

Partial FCC RF Test Report

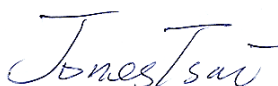
APPLICANT : Getac Technology Corporation.
EQUIPMENT : Wireless module
BRAND NAME : Sierra
MODEL NAME : EM7355
FCC ID : QYLEM7355F
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27
CLASSIFICATION : PCS Licensed Transmitter (PCB)

This is a partial report which is included the Conducted Output Power and ERP/EIRP test item. The product was received on Sep. 06, 2013 and completely tested on Oct. 22, 2013. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

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FCC ID : QYLEM7355F

Page Number : 1 of 42

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TABLE OF CONTENTS

REVISION HISTORY..... 3

SUMMARY OF TEST RESULT 4

1 GENERAL DESCRIPTION 5

 1.1 Applicant 5

 1.2 Manufacturer 5

 1.3 Feature of Equipment Under Test 5

 1.4 Product Specification of Equipment Under Test 7

 1.5 Modification of EUT 7

 1.6 Emission Designator 8

 1.7 Testing Site 11

 1.8 Applied Standards 11

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST 12

 2.1 Test Mode 12

3 TEST RESULT 15

 3.1 Conducted Output Power Measurement and ERP/EIRP Measurement 15

4 LIST OF MEASURING EQUIPMENT 42



SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	RSS-132 (5.4) RSS-133 (6.4) RSS-139(6.4)	Conducted Output Power	Reporting Only	PASS	-
3.1	§22.913(a)(2)	RSS-132(5.4) SRSP-503(5.1.3)	Effective Radiated Power (Band 5)	ERP < 7 Watts	PASS	-
	§27.50(c)(10)	N/A	Effective Radiated Power (Band 13) (Band 17)	ERP < 3 Watts		
	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power (Band 2)(Band 25)	EIRP < 2Watt		
	§27.50(d)(4)	RSS-139 (6.4) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt		

Remark: Due to the antenna-gains of the module in host evaluated in all dedicated bands are less than those in the module report in accordance with MPE value so that we do not perform the procedure for RSE measurement.

1 General Description

1.1 Applicant

Getac Technology Corporation.

5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist., Taipei City 11568, Taiwan, R.O.C.

1.2 Manufacturer

Getac Technology(Kunshan)Co., LTD.

No. 269, No. 2 Avenue, Kunshan Comprehensive Free Trade Zone, Jiangsu Province, P.R.C

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Wireless module
Brand Name	Sierra
Model Name	EM7355
FCC ID	QYLEM7355F
Installed into Tablet	Brand Name: Getac Model Name: F110 Marketing Name: F110
Sample 1	EUT installed into SKU B-1
Sample 2	EUT installed into SKU B-2
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



Information of Host		
	SKU B-1	SKU B-2
OS	Win8 64 bit	Win8 64 bit
CPU	Haswell sharkbay i5 15W(vPro) 4300U	Haswell sharkbay i5 15W(vPro) 4300U
DDR	8G	8G
SDD	256G	256G
Battery	BP3S1P2160-S	BP3S1P2160-S
GPS	EB-5631RC	EB-5631RC
Panel	AUO HD: B116XW05V006 sunlight readable, 800 Nits maximum brightness	AUO HD: B116XW05V006 sunlight readable, 800 Nits maximum brightness
Default IO	USB3.0 port	USB3.0 port
	HDMI	HDMI
Optional I/O	Smart Card	Smart Card
Customization port	LAN	RS232
WLAN	Wilkins peak 2	Wilkins peak 2
BT	Wilkins peak 2,BTv3.0 +EDR/v4.0-LE	Wilkins peak 2,BTv3.0 +EDR/v4.0-LE
3G/LTE	Gobi5000 EM7355	Gobi5000 EM7355
RF pass thru	YES (3G + WiFi)	YES (3G + WiFi)
Camera	Yes	Yes
Webcam	Yes	Yes

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz
Rx Frequency	LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 25 : 1930.7MHz ~ 1994.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz (Band 5) 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz (Band 2) 1.4MHz / 3MHz / 5MHz/ 10MHz / 15MHz / 20MHz (Band 25) 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz (Band 4) 5MHz / 10MHz (Band 13) 5MHz / 10MHz (Band 17)
Maximum Output Power to Antenna	LTE Band 5 : 22.49 dBm / 0.1774 W LTE Band 2 : 23.00 dBm / 0.1995 W LTE Band 25 : 23.09 dBm / 0.2037 W LTE Band 4 : 23.15 dBm / 0.2065 W LTE Band 13 : 22.55 dBm / 0.1799 W LTE Band 17 : 22.65 dBm / 0.1841 W
Antenna Type	PIFA Antenna
Antenna Gain	LTE Band 5 : 1.01 dBi LTE Band 2 : 2.32 dBi LTE Band 25 : 2.32 dBi LTE Band 4 : 3.22 dBi LTE Band 13 : 1.67 dBi LTE Band 17 : -0.05 dBi
Type of Modulation	QPSK / 16QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Emission Designator

FCC Rule	System	Type of Modulation	BW	Maximum ERP/EIRP
Part 22	LTE Band 5	QPSK	1.4 MHz	0.13 W
Part 22	LTE Band 5	16QAM	1.4 MHz	0.11 W
Part 22	LTE Band 5	QPSK	3 MHz	0.13 W
Part 22	LTE Band 5	16QAM	3 MHz	0.10 W
Part 22	LTE Band 5	QPSK	5 MHz	0.13 W
Part 22	LTE Band 5	16QAM	5 MHz	0.10 W
Part 22	LTE Band 5	QPSK	10 MHz	0.14 W
Part 22	LTE Band 5	16QAM	10 MHz	0.11 W
Part 24	LTE Band 2	QPSK	1.4 MHz	0.34 W
Part 24	LTE Band 2	16QAM	1.4 MHz	0.29 W
Part 24	LTE Band 2	QPSK	3 MHz	0.34 W
Part 24	LTE Band 2	16QAM	3 MHz	0.28 W
Part 24	LTE Band 2	QPSK	5 MHz	0.34 W
Part 24	LTE Band 2	16QAM	5 MHz	0.28 W
Part 24	LTE Band 2	QPSK	10 MHz	0.34 W
Part 24	LTE Band 2	16QAM	10 MHz	0.29 W
Part 24	LTE Band 2	QPSK	15 MHz	0.34 W
Part 24	LTE Band 2	16QAM	15 MHz	0.27 W
Part 24	LTE Band 2	QPSK	20 MHz	0.34 W
Part 24	LTE Band 2	16QAM	20 MHz	0.28 W



FCC Rule	System	Type of Modulation	BW	Maximum ERP/EIRP
Part 24	LTE Band 25	QPSK	1.4 MHz	0.33 W
Part 24	LTE Band 25	16QAM	1.4 MHz	0.27 W
Part 24	LTE Band 25	QPSK	3 MHz	0.35 W
Part 24	LTE Band 25	16QAM	3 MHz	0.26 W
Part 24	LTE Band 25	QPSK	5 MHz	0.35 W
Part 24	LTE Band 25	16QAM	5 MHz	0.29 W
Part 24	LTE Band 25	QPSK	10 MHz	0.35 W
Part 24	LTE Band 25	16QAM	10 MHz	0.28 W
Part 24	LTE Band 25	QPSK	15 MHz	0.34 W
Part 24	LTE Band 25	16QAM	15 MHz	0.27 W
Part 24	LTE Band 25	QPSK	20 MHz	0.34 W
Part 24	LTE Band 25	16QAM	20 MHz	0.27 W



FCC Rule	System	Type of Modulation	BW	Maximum ERP/EIRP
Part 27	LTE Band 4	QPSK	1.4 MHz	0.43 W
Part 27	LTE Band 4	16QAM	1.4 MHz	0.35 W
Part 27	LTE Band 4	QPSK	3 MHz	0.43 W
Part 27	LTE Band 4	16QAM	3 MHz	0.35 W
Part 27	LTE Band 4	QPSK	5MHz	0.43 W
Part 27	LTE Band 4	16QAM	5MHz	0.35 W
Part 27	LTE Band 4	QPSK	10MHz	0.41 W
Part 27	LTE Band 4	16QAM	10MHz	0.35 W
Part 27	LTE Band 4	QPSK	15MHz	0.39 W
Part 27	LTE Band 4	16QAM	15MHz	0.33 W
Part 27	LTE Band 4	QPSK	20MHz	0.43 W
Part 27	LTE Band 4	16QAM	20MHz	0.35 W
Part 27	LTE Band 13	QPSK	5MHz	0.16 W
Part 27	LTE Band 13	16QAM	5MHz	0.13 W
Part 27	LTE Band 13	QPSK	10MHz	0.16 W
Part 27	LTE Band 13	16QAM	10MHz	0.13 W
Part 27	LTE Band 17	QPSK	5MHz	0.11 W
Part 27	LTE Band 17	16QAM	5MHz	0.09 W
Part 27	LTE Band 17	QPSK	10MHz	0.11 W
Part 27	LTE Band 17	16QAM	10MHz	0.09 W

1.7 Testing Site

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH02-HY

1.8 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 22(H), 24(E), 27
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01
- ♦ FCC KDB 412172 D01 Determining ERP and ERIP v01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Test Modes		
Band		Conducted TCs
LTE Band 5	BW 1.4MHz	■ LTE (RB Size 1) Link ■ LTE (RB Size 3) Link ■ LTE (RB Size 6) Link
	BW 3MHz	■ LTE (RB Size 1) Link ■ LTE (RB Size 8) Link ■ LTE (RB Size 15) Link
	BW 5MHz	■ LTE (RB Size 1) Link ■ LTE (RB Size 12) Link ■ LTE (RB Size 25) Link
	BW 10MHz	■ LTE (RB Size 1) Link ■ LTE (RB Size 25) Link ■ LTE (RB Size 50) Link



Test Modes		
Band	Conducted TCs	
LTE Band 2	BW 1.4MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 3) Link ■ LTE (RB Size 6) Link
	BW 3MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 8) Link ■ LTE (RB Size 15) Link
	BW 5MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 12) Link ■ LTE (RB Size 25) Link
	BW 10MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 25) Link ■ LTE (RB Size 50) Link
	BW 15MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 36) Link ■ LTE (RB Size 75) Link
	BW 20MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 50) Link ■ LTE (RB Size 100) Link
LTE Band 25	BW 1.4MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 3) Link ■ LTE (RB Size 6) Link
	BW 3MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 8) Link ■ LTE (RB Size 15) Link
	BW 5MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 12) Link ■ LTE (RB Size 25) Link
	BW 10MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 25) Link ■ LTE (RB Size 50) Link
	BW 15MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 36) Link ■ LTE (RB Size 75) Link
	BW 20MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 50) Link ■ LTE (RB Size 100) Link



Test Modes		
Band		Conducted TCs
LTE Band 4	BW 1.4MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 3) Link ■ LTE (RB Size 6) Link
	BW 3MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 8) Link ■ LTE (RB Size 15) Link
	BW 5MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 12) Link ■ LTE (RB Size 25) Link
	BW 10MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 25) Link ■ LTE (RB Size 50) Link
	BW 15MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 36) Link ■ LTE (RB Size 75) Link
	BW 20MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 50) Link ■ LTE (RB Size 100) Link
LTE Band 13	BW 5MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 12) Link ■ LTE (RB Size 25) Link
	BW 10MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 25) Link ■ LTE (RB Size 50) Link
LTE Band 17	BW 5MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 12) Link ■ LTE (RB Size 25) Link
	BW 10MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link ■ LTE (RB Size 25) Link ■ LTE (RB Size 50) Link

3 Test Result

3.1 Conducted Output Power Measurement and ERP/EIRP Measurement

3.1.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 13 and Band 17.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

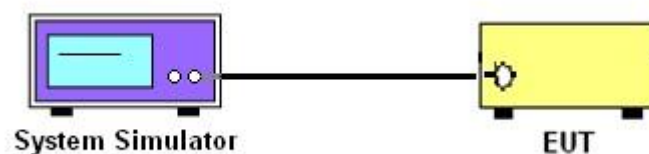
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.

3.1.4 Test Setup





3.1.5 Test Result of Conducted Output Power

<LTE Band 5 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	22.04	22.13	22.04
10	QPSK	1	24	22.05	22.32	22.49
10	QPSK	1	49	22.25	22.29	22.19
10	QPSK	25	0	21.17	21.14	21.33
10	QPSK	25	12	21.15	21.14	21.38
10	QPSK	25	24	21.14	21.09	21.26
10	QPSK	50	0	21.13	21.15	21.29
10	16QAM	1	0	21.20	21.40	21.34
10	16QAM	1	24	21.07	21.30	21.44
10	16QAM	1	49	21.19	21.29	21.21
10	16QAM	25	0	20.09	20.07	20.03
10	16QAM	25	12	20.22	20.05	20.21
10	16QAM	25	24	20.17	20.01	20.02
10	16QAM	50	0	20.10	20.09	20.03
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	22.08	22.31	22.30
5	QPSK	1	12	22.25	22.44	22.25
5	QPSK	1	24	22.11	22.30	22.33
5	QPSK	12	0	21.19	21.19	21.37
5	QPSK	12	6	21.16	21.21	21.18
5	QPSK	12	11	21.18	21.21	21.30
5	QPSK	25	0	21.16	21.09	21.24
5	16QAM	1	0	21.20	21.18	21.30
5	16QAM	1	12	21.00	21.05	21.20
5	16QAM	1	24	21.05	21.04	21.15
5	16QAM	12	0	20.28	20.16	20.22
5	16QAM	12	6	20.32	20.30	20.27
5	16QAM	12	11	20.37	20.26	20.25
5	16QAM	25	0	20.19	20.15	20.19



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.08	22.22	22.14
3	QPSK	1	7	22.15	22.31	22.06
3	QPSK	1	14	22.03	22.31	22.23
3	QPSK	8	0	21.29	21.44	21.36
3	QPSK	8	4	21.26	21.31	21.12
3	QPSK	8	7	21.32	21.26	21.23
3	QPSK	15	0	21.21	21.25	21.12
3	16QAM	1	0	21.28	21.28	21.11
3	16QAM	1	7	21.04	21.06	21.07
3	16QAM	1	14	21.24	21.13	21.15
3	16QAM	8	0	20.29	20.23	20.05
3	16QAM	8	4	20.16	20.08	20.01
3	16QAM	8	7	20.19	20.06	20.08
3	16QAM	15	0	20.25	20.21	20.16
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.17	22.23	22.17
1.4	QPSK	1	2	22.14	22.29	22.28
1.4	QPSK	1	5	22.13	22.28	22.18
1.4	QPSK	3	0	22.25	22.25	22.25
1.4	QPSK	3	1	22.20	22.22	22.26
1.4	QPSK	3	2	22.16	22.22	22.22
1.4	QPSK	6	0	21.33	21.29	21.19
1.4	16QAM	1	0	21.10	21.06	21.41
1.4	16QAM	1	2	21.33	21.39	21.22
1.4	16QAM	1	5	21.06	21.01	21.02
1.4	16QAM	3	0	21.12	21.14	21.16
1.4	16QAM	3	1	21.21	21.26	21.35
1.4	16QAM	3	2	21.18	21.33	21.39
1.4	16QAM	6	0	20.34	20.13	20.26



<LTE Band 2 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	22.94	22.84	22.70
20	QPSK	1	49	22.86	22.78	22.70
20	QPSK	1	99	22.78	22.67	23.00
20	QPSK	50	0	21.76	21.57	21.57
20	QPSK	50	24	21.63	21.66	21.50
20	QPSK	50	49	21.66	21.59	21.49
20	QPSK	100	0	21.65	21.63	21.59
20	16QAM	1	0	22.08	21.91	21.80
20	16QAM	1	49	21.93	22.01	21.85
20	16QAM	1	99	21.80	21.77	22.07
20	16QAM	50	0	20.72	20.59	20.56
20	16QAM	50	24	20.63	20.58	20.46
20	16QAM	50	49	20.61	20.53	20.49
20	16QAM	100	0	20.61	20.56	20.54
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.76	22.63	22.61
15	QPSK	1	37	22.97	22.97	22.89
15	QPSK	1	74	22.66	22.85	22.87
15	QPSK	36	0	21.78	21.76	21.49
15	QPSK	36	18	21.84	21.84	21.70
15	QPSK	36	37	21.64	21.68	21.72
15	QPSK	75	0	21.50	21.41	21.49
15	16QAM	1	0	21.78	22.05	21.75
15	16QAM	1	37	21.92	22.06	22.06
15	16QAM	1	74	21.59	21.92	21.95
15	16QAM	36	0	20.80	20.74	20.61
15	16QAM	36	18	20.80	20.84	20.83
15	16QAM	36	37	20.69	20.57	20.73
15	16QAM	75	0	20.64	20.48	20.52



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.70	22.81	22.81
10	QPSK	1	24	22.85	22.81	22.75
10	QPSK	1	49	22.73	22.86	22.94
10	QPSK	25	0	21.83	21.82	21.74
10	QPSK	25	12	21.81	21.64	21.80
10	QPSK	25	24	21.80	21.69	21.85
10	QPSK	50	0	21.59	21.60	21.63
10	16QAM	1	0	22.00	22.04	21.62
10	16QAM	1	24	22.25	21.92	22.21
10	16QAM	1	49	22.16	22.23	22.25
10	16QAM	25	0	20.85	20.78	20.73
10	16QAM	25	12	20.76	20.64	20.76
10	16QAM	25	24	20.67	20.68	20.84
10	16QAM	50	0	20.58	20.52	20.55
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.79	22.84	22.94
5	QPSK	1	12	22.81	22.78	22.95
5	QPSK	1	24	22.75	22.64	22.93
5	QPSK	12	0	21.75	21.91	21.96
5	QPSK	12	6	21.89	21.93	21.82
5	QPSK	12	11	21.90	21.80	21.86
5	QPSK	25	0	21.83	21.80	21.70
5	16QAM	1	0	21.71	22.03	21.68
5	16QAM	1	12	21.98	21.99	22.16
5	16QAM	1	24	21.67	21.67	22.00
5	16QAM	12	0	20.78	20.99	21.00
5	16QAM	12	6	21.00	20.79	20.93
5	16QAM	12	11	21.13	20.75	21.05
5	16QAM	25	0	20.76	20.69	20.92



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.79	22.79	22.72
3	QPSK	1	7	22.81	22.96	22.94
3	QPSK	1	14	22.99	22.73	22.92
3	QPSK	8	0	21.92	21.87	21.87
3	QPSK	8	4	21.89	21.89	21.82
3	QPSK	8	7	21.91	21.97	21.89
3	QPSK	15	0	21.90	21.79	21.77
3	16QAM	1	0	21.38	21.52	21.42
3	16QAM	1	7	21.78	22.10	21.99
3	16QAM	1	14	21.85	21.89	21.67
3	16QAM	8	0	20.85	20.76	20.69
3	16QAM	8	4	20.89	20.83	20.89
3	16QAM	8	7	20.86	20.70	20.88
3	16QAM	15	0	20.86	20.72	20.67
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.90	22.94	22.95
1.4	QPSK	1	2	22.88	22.88	22.78
1.4	QPSK	1	5	22.88	22.77	22.82
1.4	QPSK	3	0	22.89	22.85	22.85
1.4	QPSK	3	1	22.88	22.91	22.93
1.4	QPSK	3	2	22.84	22.81	22.76
1.4	QPSK	6	0	21.91	21.92	21.87
1.4	16QAM	1	0	22.06	22.24	21.91
1.4	16QAM	1	2	21.80	21.89	21.41
1.4	16QAM	1	5	21.63	21.68	21.50
1.4	16QAM	3	0	21.93	21.95	21.89
1.4	16QAM	3	1	21.71	21.85	21.86
1.4	16QAM	3	2	21.97	21.86	21.90
1.4	16QAM	6	0	20.95	20.93	20.82



<LTE Band 25 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26365	26590
Frequency (MHz)				1860	1882.5	1905
20	QPSK	1	0	22.95	22.86	22.70
20	QPSK	1	49	22.87	22.80	22.67
20	QPSK	1	99	22.73	22.74	22.85
20	QPSK	50	0	21.76	21.62	21.46
20	QPSK	50	24	21.73	21.65	21.47
20	QPSK	50	49	21.57	21.55	21.58
20	QPSK	100	0	21.69	21.58	21.61
20	16QAM	1	0	21.98	21.94	21.73
20	16QAM	1	49	21.90	21.86	21.69
20	16QAM	1	99	21.81	21.79	21.85
20	16QAM	50	0	20.77	20.58	20.48
20	16QAM	50	24	20.77	20.57	20.43
20	16QAM	50	49	20.51	20.49	20.56
20	16QAM	100	0	20.69	20.60	20.58
Channel				26115	26365	26615
Frequency (MHz)				1857.5	1882.5	1907.5
15	QPSK	1	0	22.94	22.74	22.64
15	QPSK	1	37	23.02	23.03	22.91
15	QPSK	1	74	22.71	22.95	22.76
15	QPSK	36	0	22.07	21.70	21.68
15	QPSK	36	18	22.16	21.75	21.92
15	QPSK	36	37	21.95	21.68	21.83
15	QPSK	75	0	21.78	21.70	21.53
15	16QAM	1	0	21.75	21.90	21.96
15	16QAM	1	37	22.00	21.64	21.51
15	16QAM	1	74	21.93	21.63	21.49
15	16QAM	36	0	21.29	21.21	21.31
15	16QAM	36	18	21.32	21.30	21.21
15	16QAM	36	37	21.31	21.15	21.23
15	16QAM	75	0	21.29	21.27	21.27



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26090	26365	26640
Frequency (MHz)				1855	1882.5	1910
10	QPSK	1	0	22.87	22.68	22.69
10	QPSK	1	24	23.09	22.85	22.86
10	QPSK	1	49	22.98	22.96	22.76
10	QPSK	25	0	21.93	21.86	21.82
10	QPSK	25	12	21.88	21.82	21.66
10	QPSK	25	24	21.79	21.66	21.87
10	QPSK	50	0	21.61	21.52	21.69
10	16QAM	1	0	21.94	22.05	22.10
10	16QAM	1	24	21.80	21.90	21.68
10	16QAM	1	49	21.94	21.83	22.21
10	16QAM	25	0	21.07	20.86	20.79
10	16QAM	25	12	21.02	20.77	20.71
10	16QAM	25	24	20.89	20.65	20.65
10	16QAM	50	0	20.70	20.58	20.71
Channel				26065	26365	26665
Frequency (MHz)				1852.5	1882.5	1912.5
5	QPSK	1	0	22.76	22.67	22.58
5	QPSK	1	12	23.04	23.03	22.79
5	QPSK	1	24	23.08	22.76	22.70
5	QPSK	12	0	21.91	21.89	21.96
5	QPSK	12	6	21.94	21.76	21.76
5	QPSK	12	11	22.02	21.77	21.77
5	QPSK	25	0	21.95	21.70	21.74
5	16QAM	1	0	21.82	21.95	21.96
5	16QAM	1	12	22.32	22.20	22.07
5	16QAM	1	24	22.29	22.23	21.96
5	16QAM	12	0	20.88	20.75	20.84
5	16QAM	12	6	21.00	20.90	20.78
5	16QAM	12	11	21.07	20.77	20.87
5	16QAM	25	0	20.87	20.63	20.84



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26055	26365	26675
Frequency (MHz)				1851.5	1882.5	1913.5
3	QPSK	1	0	22.84	22.87	22.61
3	QPSK	1	7	22.80	22.83	22.73
3	QPSK	1	14	23.09	22.89	22.77
3	QPSK	8	0	21.85	21.86	21.78
3	QPSK	8	4	21.90	21.90	21.83
3	QPSK	8	7	21.97	21.80	21.56
3	QPSK	15	0	21.79	21.76	21.74
3	16QAM	1	0	21.67	21.64	21.33
3	16QAM	1	7	21.73	21.69	21.45
3	16QAM	1	14	21.77	21.61	21.43
3	16QAM	8	0	20.92	20.53	20.41
3	16QAM	8	4	20.87	20.52	20.61
3	16QAM	8	7	20.88	20.70	20.54
3	16QAM	15	0	20.78	20.53	20.66
Channel				26047	26365	26683
Frequency (MHz)				1850.7	1882.5	1914.3
1.4	QPSK	1	0	22.91	22.72	22.70
1.4	QPSK	1	2	22.87	22.78	22.70
1.4	QPSK	1	5	22.85	22.78	22.82
1.4	QPSK	3	0	22.84	22.81	22.66
1.4	QPSK	3	1	22.92	22.84	22.58
1.4	QPSK	3	2	22.89	22.85	22.74
1.4	QPSK	6	0	21.82	21.78	21.78
1.4	16QAM	1	0	22.03	22.07	21.97
1.4	16QAM	1	2	22.05	21.98	21.76
1.4	16QAM	1	5	22.01	22.00	21.97
1.4	16QAM	3	0	21.92	21.85	21.68
1.4	16QAM	3	1	21.82	21.90	21.69
1.4	16QAM	3	2	21.89	22.01	21.59
1.4	16QAM	6	0	20.99	20.82	20.73



<LTE Band 4 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	22.87	22.98	23.15
20	QPSK	1	49	22.95	23.07	23.10
20	QPSK	1	99	22.93	23.10	22.99
20	QPSK	50	0	21.72	21.89	21.99
20	QPSK	50	24	21.76	21.88	21.85
20	QPSK	50	49	21.73	21.98	21.88
20	QPSK	100	0	21.75	21.98	21.94
20	16QAM	1	0	21.99	22.10	22.20
20	16QAM	1	49	22.02	22.19	22.21
20	16QAM	1	99	22.04	22.20	22.07
20	16QAM	50	0	20.74	20.87	21.03
20	16QAM	50	24	20.76	20.86	20.94
20	16QAM	50	49	20.75	20.97	20.87
20	16QAM	100	0	20.77	20.95	20.92
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	22.67	22.94	22.96
15	QPSK	1	37	22.59	22.92	22.95
15	QPSK	1	74	22.66	22.79	22.83
15	QPSK	36	0	21.63	21.65	22.05
15	QPSK	36	18	21.65	21.63	21.90
15	QPSK	36	37	21.56	21.64	21.99
15	QPSK	75	0	21.56	21.73	21.85
15	16QAM	1	0	21.69	21.92	22.00
15	16QAM	1	37	21.59	21.98	21.89
15	16QAM	1	74	21.61	21.86	21.82
15	16QAM	36	0	20.86	20.93	20.79
15	16QAM	36	18	20.84	20.97	20.73
15	16QAM	36	37	20.87	21.00	20.85
15	16QAM	75	0	20.85	20.76	20.76



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	22.95	22.96	22.89
10	QPSK	1	24	22.91	22.94	22.88
10	QPSK	1	49	22.92	22.92	22.79
10	QPSK	25	0	22.05	21.95	21.80
10	QPSK	25	12	21.88	21.82	21.71
10	QPSK	25	24	21.87	21.96	21.59
10	QPSK	50	0	21.80	21.85	21.58
10	16QAM	1	0	22.01	22.16	22.18
10	16QAM	1	24	21.98	22.15	22.16
10	16QAM	1	49	21.80	21.77	22.11
10	16QAM	25	0	20.93	20.76	20.87
10	16QAM	25	12	20.85	20.97	20.70
10	16QAM	25	24	20.93	20.78	20.73
10	16QAM	50	0	20.85	20.84	20.82
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	23.12	22.99	22.79
5	QPSK	1	12	23.11	22.98	22.69
5	QPSK	1	24	23.04	22.96	22.77
5	QPSK	12	0	22.07	22.05	21.82
5	QPSK	12	6	22.09	21.88	21.78
5	QPSK	12	11	22.15	21.83	21.69
5	QPSK	25	0	22.10	21.83	21.65
5	16QAM	1	0	22.21	22.08	21.73
5	16QAM	1	12	22.20	22.06	21.71
5	16QAM	1	24	22.19	21.96	21.69
5	16QAM	12	0	20.92	20.93	20.74
5	16QAM	12	6	21.05	20.86	20.90
5	16QAM	12	11	21.08	20.84	20.73
5	16QAM	25	0	20.92	20.89	20.66



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	23.11	22.99	22.63
3	QPSK	1	7	22.90	22.97	22.51
3	QPSK	1	14	23.10	22.98	22.53
3	QPSK	8	0	22.21	22.12	22.52
3	QPSK	8	4	22.04	21.95	21.56
3	QPSK	8	7	22.13	22.00	21.59
3	QPSK	15	0	22.11	22.01	21.50
3	16QAM	1	0	22.28	22.13	21.66
3	16QAM	1	7	22.26	22.12	21.64
3	16QAM	1	14	22.21	22.12	21.60
3	16QAM	8	0	21.00	20.95	20.77
3	16QAM	8	4	21.00	20.91	20.54
3	16QAM	8	7	20.96	20.79	20.65
3	16QAM	15	0	20.93	20.91	20.51
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	23.10	22.94	22.58
1.4	QPSK	1	2	22.98	22.93	22.50
1.4	QPSK	1	5	23.09	22.92	22.53
1.4	QPSK	3	0	22.99	22.91	22.53
1.4	QPSK	3	1	23.05	22.88	22.56
1.4	QPSK	3	2	23.05	22.91	22.53
1.4	QPSK	6	0	22.09	21.95	21.61
1.4	16QAM	1	0	22.16	22.16	21.75
1.4	16QAM	1	2	22.15	22.15	21.73
1.4	16QAM	1	5	22.11	22.08	21.66
1.4	16QAM	3	0	22.07	21.89	21.59
1.4	16QAM	3	1	22.10	21.79	21.55
1.4	16QAM	3	2	22.04	21.95	21.53
1.4	16QAM	6	0	20.96	20.94	20.52



<LTE Band 13 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					23230	
Frequency (MHz)					782	
10	QPSK	1	0		22.43	
10	QPSK	1	24		22.55	
10	QPSK	1	49		22.40	
10	QPSK	25	0		21.54	
10	QPSK	25	12		21.58	
10	QPSK	25	24		21.53	
10	QPSK	50	0		21.41	
10	16QAM	1	0		21.44	
10	16QAM	1	24		21.61	
10	16QAM	1	49		21.43	
10	16QAM	25	0		20.50	
10	16QAM	25	12		20.59	
10	16QAM	25	24		20.52	
10	16QAM	50	0		20.46	
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	22.37	22.43	22.32
5	QPSK	1	12	22.20	22.54	22.23
5	QPSK	1	24	22.34	22.40	22.12
5	QPSK	12	0	21.30	21.54	21.30
5	QPSK	12	6	21.28	21.58	21.18
5	QPSK	12	11	21.32	21.53	21.24
5	QPSK	25	0	21.17	21.41	21.04
5	16QAM	1	0	21.44	21.44	21.48
5	16QAM	1	12	21.43	21.61	21.42
5	16QAM	1	24	21.24	21.43	21.45
5	16QAM	12	0	20.36	20.50	20.34
5	16QAM	12	6	20.14	20.59	20.22
5	16QAM	12	11	20.26	20.52	20.17
5	16QAM	25	0	20.03	20.46	20.05



<LTE Band 17 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	22.61	22.56	22.52
10	QPSK	1	24	22.65	22.64	22.53
10	QPSK	1	49	22.61	22.58	22.34
10	QPSK	25	0	21.67	21.66	21.59
10	QPSK	25	12	21.59	21.57	21.63
10	QPSK	25	24	21.68	21.56	21.61
10	QPSK	50	0	21.53	21.49	21.42
10	16QAM	1	0	21.60	21.60	21.59
10	16QAM	1	24	21.72	21.74	21.66
10	16QAM	1	49	21.66	21.58	21.38
10	16QAM	25	0	20.65	20.61	20.56
10	16QAM	25	12	20.59	20.60	20.61
10	16QAM	25	24	20.69	20.61	20.56
10	16QAM	50	0	20.52	20.45	20.44
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	22.52	22.44	22.28
5	QPSK	1	12	22.51	22.31	22.20
5	QPSK	1	24	22.50	22.65	22.20
5	QPSK	12	0	21.48	21.42	21.53
5	QPSK	12	6	21.46	21.47	21.50
5	QPSK	12	11	21.49	21.41	21.36
5	QPSK	25	0	21.36	21.39	21.35
5	16QAM	1	0	21.38	21.66	21.23
5	16QAM	1	12	21.69	21.38	21.37
5	16QAM	1	24	21.36	21.36	21.19
5	16QAM	12	0	20.31	20.29	20.41
5	16QAM	12	6	20.60	20.60	20.48
5	16QAM	12	11	20.58	20.52	20.22
5	16QAM	25	0	20.17	20.20	20.24

Note: maximum average power for LTE.



3.1.6 Test Result of Conducted Output Power and ERP/EIRP

Cellular Band ($G_T - L_C = 1.01\text{dB}$)						
Modes	LTE Band 5 (QPSK, BW=1.4M)			LTE Band 5 (16QAM, BW=1.4M)		
Channel	20407 (Low)	20525 (Mid)	20643 (High)	20407 (Low)	20525 (Mid)	20643 (High)
Frequency (MHz)	824.7	836.5	848.3	824.7	836.5	848.3
Conducted Power (dBm)	22.25	22.29	22.28	21.33	21.39	21.41
Conducted Power (Watts)	0.17	0.17	0.17	0.14	0.14	0.14
ERP(dBm)	21.11	21.15	21.14	20.19	20.25	20.27
ERP(Watts)	0.13	0.13	0.13	0.10	0.11	0.11

Cellular Band ($G_T - L_C = 1.01\text{ dB}$)						
Modes	LTE Band 5 (QPSK, BW=3M)			LTE Band 5 (16QAM, BW=3M)		
Channel	20415 (Low)	20525 (Mid)	20635 (High)	20415 (Low)	20525 (Mid)	20635 (High)
Frequency (MHz)	825.5	836.5	847.5	825.5	836.5	847.5
Conducted Power (dBm)	22.15	22.31	22.23	21.28	21.28	21.15
Conducted Power (Watts)	0.16	0.17	0.17	0.13	0.13	0.13
ERP(dBm)	21.01	21.17	21.09	20.14	20.14	20.01
ERP(Watts)	0.13	0.13	0.13	0.10	0.10	0.10



Cellular Band ($G_T - L_C = 1.01$ dB)						
Modes	LTE Band 5 (QPSK,BW=5M)			LTE Band 5 (16QAM,BW=5M)		
Channel	20425 (Low)	20525 (Mid)	20625 (High)	20425 (Low)	20525 (Mid)	20625 (High)
Frequency (MHz)	826.5	836.5	846.5	826.5	836.5	846.5
Conducted Power (dBm)	22.25	22.44	22.33	21.20	21.18	21.30
Conducted Power (Watts)	0.17	0.18	0.17	0.13	0.13	0.13
ERP(dBm)	21.11	21.30	21.19	20.06	20.04	20.16
ERP(Watts)	0.13	0.13	0.13	0.10	0.10	0.10

Cellular Band ($G_T - L_C = 1.01$ dB)						
Modes	LTE Band 5 (QPSK,BW=10M)			LTE Band 5 (16QAM,BW=10M)		
Channel	20450 (Low)	20525 (Mid)	20600 (High)	20450 (Low)	20525 (Mid)	20600 (High)
Frequency (MHz)	829	836.5	844	829	836.5	844
Conducted Power (dBm)	22.25	22.32	22.49	21.20	21.40	21.44
Conducted Power (Watts)	0.17	0.17	0.18	0.13	0.14	0.14
ERP(dBm)	21.11	21.18	21.35	20.06	20.26	20.30
ERP(Watts)	0.13	0.13	0.14	0.10	0.11	0.11



PCS Band ($G_T - L_C = 2.32\text{dB}$)						
Modes	LTE Band 2 (QPSK, BW=1.4M)			LTE Band 2 (16QAM, BW=1.4M)		
Channel	18607(Low)	18900 (Mid)	19193 (High)	18607(Low)	18900 (Mid)	19193 (High)
Frequency (MHz)	1850.7	1880	1909.3	1850.7	1880	1909.3
Conducted Power (dBm)	22.90	22.94	22.95	22.06	22.24	21.91
Conducted Power (Watts)	0.19	0.20	0.20	0.16	0.17	0.16
EIRP(dBm)	25.22	25.26	25.27	24.38	24.56	24.23
EIRP(Watts)	0.33	0.34	0.34	0.27	0.29	0.26

PCS Band ($G_T - L_C = 2.32 \text{ dB}$)						
Modes	LTE Band 2 (QPSK, BW=3M)			LTE Band 2 (16QAM, BW=3M)		
Channel	18615(Low)	18900 (Mid)	19185 (High)	18615(Low)	18900 (Mid)	19185 (High)
Frequency (MHz)	1851.5	1880	1908.5	1851.5	1880	1908.5
Conducted Power (dBm)	22.99	22.96	22.94	21.85	22.10	21.99
Conducted Power (Watts)	0.20	0.20	0.20	0.15	0.16	0.16
EIRP(dBm)	25.31	25.28	25.26	24.17	24.42	24.31
EIRP(Watts)	0.34	0.34	0.34	0.26	0.28	0.27



PCS Band ($G_T - L_C = 2.32$ dB)						
Modes	LTE Band 2 (QPSK, BW=5M)			LTE Band 2 (16QAM, BW=5M)		
Channel	18625(Low)	18900 (Mid)	19175 (High)	18625(Low)	18900 (Mid)	19175 (High)
Frequency (MHz)	1852.5	1880	1907.5	1852.5	1880	1907.5
Conducted Power (dBm)	22.81	22.84	22.95	21.98	22.03	22.16
Conducted Power (Watts)	0.19	0.19	0.20	0.16	0.16	0.16
EIRP(dBm)	25.13	25.16	25.27	24.30	24.35	24.48
EIRP(Watts)	0.33	0.33	0.34	0.27	0.27	0.28

PCS Band ($G_T - L_C = 2.32$ dB)						
Modes	LTE Band 2 (QPSK, BW=10M)			LTE Band 2 (16QAM, BW=10M)		
Channel	18650(Low)	18900 (Mid)	19150 (High)	18650(Low)	18900 (Mid)	19150 (High)
Frequency (MHz)	1855	1880	1905	1855	1880	1905
Conducted Power (dBm)	22.85	22.86	22.94	22.25	22.23	22.25
Conducted Power (Watts)	0.19	0.19	0.20	0.17	0.17	0.17
EIRP(dBm)	25.17	25.18	25.26	24.57	24.55	24.57
EIRP(Watts)	0.33	0.33	0.34	0.29	0.29	0.29



PCS Band ($G_T - L_C = 2.32$ dB)						
Modes	LTE Band 2 (QPSK, BW=15M)			LTE Band 2 (16QAM, BW=15M)		
Channel	18675(Low)	18900 (Mid)	19125 (High)	18675(Low)	18900 (Mid)	19125 (High)
Frequency (MHz)	1857.5	1880	1902.5	1857.5	1880	1902.5
Conducted Power (dBm)	22.97	22.97	22.89	21.92	22.06	22.06
Conducted Power (Watts)	0.20	0.20	0.19	0.16	0.16	0.16
EIRP(dBm)	25.29	25.29	25.21	24.24	24.38	24.38
EIRP(Watts)	0.34	0.34	0.33	0.27	0.27	0.27

PCS Band ($G_T - L_C = 2.32$ dB)						
Modes	LTE Band 2 (QPSK, BW=20M)			LTE Band 2 (16QAM, BW=20M)		
Channel	18700(Low)	18900 (Mid)	19100 (High)	18700(Low)	18900 (Mid)	19100 (High)
Frequency (MHz)	1860	1880	1900	1860	1880	1900
Conducted Power (dBm)	22.94	22.84	23.00	22.08	22.01	22.07
Conducted Power (Watts)	0.20	0.19	0.20	0.16	0.16	0.16
EIRP(dBm)	25.26	25.16	25.32	24.40	24.33	24.39
EIRP(Watts)	0.34	0.33	0.34	0.28	0.27	0.27



PCS Band ($G_T - L_C = 2.32$ dB)						
Modes	LTE Band 25 (QPSK, BW=1.4M)			LTE Band 25 (16QAM, BW=1.4M)		
Channel	26047 (Low)	26365 (Mid)	26683 (High)	26047 (Low)	26365 (Mid)	26683 (High)
Frequency (MHz)	1850.7	1882.5	1914.3	1850.7	1882.5	1914.3
Conducted Power (dBm)	22.92	22.85	22.82	22.05	22.07	21.97
Conducted Power (Watts)	0.20	0.19	0.19	0.16	0.16	0.16
EIRP(dBm)	25.24	25.17	25.14	24.37	24.39	24.29
EIRP(Watts)	0.33	0.33	0.33	0.27	0.27	0.27

PCS Band ($G_T - L_C = 2.32$ dB)						
Modes	LTE Band 25 (QPSK, BW=3M)			LTE Band 25 (16QAM, BW=3M)		
Channel	26055 (Low)	26365 (Mid)	26675 (High)	26055 (Low)	26365 (Mid)	26675 (High)
Frequency (MHz)	1851.5	1882.5	1913.5	1851.5	1882.5	1913.5
Conducted Power (dBm)	23.09	22.89	22.77	21.77	21.69	21.45
Conducted Power (Watts)	0.20	0.19	0.19	0.15	0.15	0.14
EIRP(dBm)	25.41	25.21	25.09	24.09	24.01	23.77
EIRP(Watts)	0.35	0.33	0.32	0.26	0.25	0.24



PCS Band ($G_T - L_C = 2.32$ dB)						
Modes	LTE Band 25 (QPSK, BW=5M)			LTE Band 25 (16QAM, BW=5M)		
Channel	26065 (Low)	26365 (Mid)	26665 (High)	26065 (Low)	26365 (Mid)	26665 (High)
Frequency (MHz)	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5
Conducted Power (dBm)	23.08	23.03	22.79	22.32	22.23	22.07
Conducted Power (Watts)	0.20	0.20	0.19	0.17	0.17	0.16
EIRP(dBm)	25.40	25.35	25.11	24.64	24.55	24.39
EIRP(Watts)	0.35	0.34	0.32	0.29	0.29	0.27

PCS Band ($G_T - L_C = 2.32$ dB)						
Modes	LTE Band 25 (QPSK, BW=10M)			LTE Band 25 (16QAM, BW=10M)		
Channel	26090 (Low)	26365 (Mid)	26640 (High)	26090 (Low)	26365 (Mid)	26640 (High)
Frequency (MHz)	1855	1882.5	1910	1855	1882.5	1910
Conducted Power (dBm)	23.09	22.96	22.86	21.94	22.05	22.21
Conducted Power (Watts)	0.20	0.20	0.19	0.16	0.16	0.17
EIRP(dBm)	25.41	25.28	25.18	24.26	24.37	24.53
EIRP(Watts)	0.35	0.34	0.33	0.27	0.27	0.28



PCS Band ($G_T - L_C = 2.32$ dB)						
Modes	LTE Band 25 (QPSK, BW=15M)			LTE Band 25 (16QAM, BW=15M)		
Channel	26115 (Low)	26365 (Mid)	26615 (High)	26115 (Low)	26365 (Mid)	26615 (High)
Frequency (MHz)	1857.5	1882.5	1907.5	1857.5	1882.5	1907.5
Conducted Power (dBm)	23.02	23.03	22.91	22.00	21.90	21.96
Conducted Power (Watts)	0.20	0.20	0.20	0.16	0.15	0.16
EIRP(dBm)	25.34	25.35	25.23	24.32	24.22	24.28
EIRP(Watts)	0.34	0.34	0.33	0.27	0.26	0.27

PCS Band ($G_T - L_C = 2.32$ dB)						
Modes	LTE Band 25 (QPSK, BW=20M)			LTE Band 25 (16QAM, BW=20M)		
Channel	26140 (Low)	26365 (Mid)	26590 (High)	26140 (Low)	26365 (Mid)	26590 (High)
Frequency (MHz)	1860	1882.5	1905	1860	1882.5	1905
Conducted Power (dBm)	22.95	22.86	22.85	21.98	21.94	21.85
Conducted Power (Watts)	0.20	0.19	0.19	0.16	0.16	0.15
EIRP(dBm)	25.27	25.18	25.17	24.30	24.26	24.17
EIRP(Watts)	0.34	0.33	0.33	0.27	0.27	0.26



PCS Band ($G_T - L_C = 3.22$ dB)						
Modes	LTE Band 4 (QPSK, BW=1.4M)			LTE Band 4 (16QAM, BW=1.4M)		
Channel	19957 (Low)	20175 (Mid)	20393 (High)	19957 (Low)	20175 (Mid)	20393 (High)
Frequency (MHz)	1710.7	1732.5	1754.3	1710.7	1732.5	1754.3
Conducted Power (dBm)	23.10	22.94	22.58	22.16	22.16	21.75
Conducted Power (Watts)	0.20	0.20	0.18	0.16	0.16	0.15
EIRP(dBm)	26.32	26.16	25.80	25.38	25.38	24.97
EIRP(Watts)	0.43	0.41	0.38	0.35	0.35	0.31

PCS Band ($G_T - L_C = 3.22$ dB)						
Modes	LTE Band 4 (QPSK, BW=3M)			LTE Band 4 (16QAM, BW=3M)		
Channel	19965(Low)	20175 (Mid)	20385 (High)	19965(Low)	20175 (Mid)	20385 (High)
Frequency (MHz)	1711.5	1732.5	1753.5	1711.5	1732.5	1753.5
Conducted Power (dBm)	23.11	22.99	22.63	22.28	22.13	21.66
Conducted Power (Watts)	0.20	0.20	0.18	0.17	0.16	0.15
EIRP(dBm)	26.33	26.21	25.85	25.50	25.35	24.88
EIRP(Watts)	0.43	0.42	0.38	0.35	0.34	0.31



PCS Band ($G_T - L_C = 3.22$ dB)						
Modes	LTE Band 4 (QPSK, BW=5M)			LTE Band 4 (16QAM, BW=5M)		
Channel	19975(Low)	20175 (Mid)	20375 (High)	19975(Low)	20175 (Mid)	20375 (High)
Frequency (MHz)	1712.5	1732.5	1752.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	23.12	22.99	22.79	22.21	22.08	21.73
Conducted Power (Watts)	0.21	0.20	0.19	0.17	0.16	0.15
EIRP(dBm)	26.34	26.21	26.01	25.43	25.30	24.95
EIRP(Watts)	0.43	0.42	0.40	0.35	0.34	0.31

PCS Band ($G_T - L_C = 3.22$ dB)						
Modes	LTE Band 4 (QPSK, BW=10M)			LTE Band 4 (16QAM, BW=10M)		
Channel	20000 (Low)	20175 (Mid)	20350 (High)	20000 (Low)	20175 (Mid)	20350 (High)
Frequency (MHz)	1715	1732.5	1750	1715	1732.5	1750
Conducted Power (dBm)	22.95	22.96	22.89	22.01	22.16	22.18
Conducted Power (Watts)	0.20	0.20	0.19	0.16	0.16	0.17
EIRP(dBm)	26.17	26.18	26.11	25.23	25.38	25.40
EIRP(Watts)	0.41	0.41	0.41	0.33	0.35	0.35



PCS Band ($G_T - L_C = 3.22$ dB)						
Modes	LTE Band 4 (QPSK, BW=15M)			LTE Band 4 (16QAM, BW=15M)		
Channel	20025 (Low)	20175 (Mid)	20325 (High)	20025 (Low)	20175 (Mid)	20325 (High)
Frequency (MHz)	1717.5	1732.5	1747.5	1717.5	1732.5	1747.5
Conducted Power (dBm)	22.67	22.94	22.96	21.69	21.98	22.00
Conducted Power (Watts)	0.18	0.20	0.20	0.15	0.16	0.16
EIRP(dBm)	25.89	26.16	26.18	24.91	25.20	25.22
EIRP(Watts)	0.39	0.41	0.41	0.31	0.33	0.33

PCS Band ($G_T - L_C = 3.22$ dB)						
Modes	LTE Band 4 (QPSK, BW=20M)			LTE Band 4 (16QAM, BW=20M)		
Channel	20050 (Low)	20175 (Mid)	20300 (High)	20050 (Low)	20175 (Mid)	20300 (High)
Frequency (MHz)	1720	1732.5	1745	1720	1732.5	1745
Conducted Power (dBm)	22.95	23.10	23.15	22.04	22.20	22.21
Conducted Power (Watts)	0.20	0.20	0.21	0.16	0.17	0.17
EIRP(dBm)	26.17	26.32	26.37	25.26	25.42	25.43
EIRP(Watts)	0.41	0.43	0.43	0.34	0.35	0.35



Cellular Band ($G_T - L_C = 1.67$ dB)						
Modes	LTE Band 13 (QPSK, BW=5M)			LTE Band 13 (16QAM, BW=5M)		
Channel	23205 (Low)	23230 (Mid)	23255 (High)	23205 (Low)	23230 (Mid)	23255 (High)
Frequency (MHz)	779.5	782	784.5	779.5	782	784.5
Conducted Power (dBm)	22.37	22.54	22.32	21.44	21.61	21.48
Conducted Power (Watts)	0.17	0.18	0.17	0.14	0.14	0.14
ERP(dBm)	21.89	22.06	21.84	20.96	21.13	21.00
ERP(Watts)	0.15	0.16	0.15	0.12	0.13	0.13

Cellular Band ($G_T - L_C = 1.67$ dB)		
Modes	LTE Band 13 (QPSK, BW=10M)	LTE Band 13 (16QAM, BW=10M)
Channel	23230 (Mid)	23230 (Mid)
Frequency (MHz)	782	782
Conducted Power (dBm)	22.55	21.61
Conducted Power (Watts)	0.18	0.14
ERP(dBm)	22.07	21.13
ERP(Watts)	0.16	0.13



Cellular Band ($G_T - L_C = -0.05$ dB)						
Modes	LTE Band 17 (QPSK, BW=5M)			LTE Band 17 (16QAM, BW=5M)		
Channel	23755 (Low)	23790 (Mid)	23825 (High)	23755 (Low)	23790 (Mid)	23825 (High)
Frequency (MHz)	706.5	710	713.5	706.5	710	713.5
Conducted Power (dBm)	22.52	22.65	22.28	21.69	21.66	21.37
Conducted Power (Watts)	0.18	0.18	0.17	0.15	0.15	0.14
ERP(dBm)	20.32	20.45	20.08	19.49	19.46	19.17
ERP(Watts)	0.11	0.11	0.10	0.09	0.09	0.08

Cellular Band ($G_T - L_C = -0.05$ dB)						
Modes	LTE Band 17 (QPSK, BW=10M)			LTE Band 17 (16QAM, BW=10M)		
Channel	23780 (Low)	23790 (Mid)	23800 (High)	23780 (Low)	23790 (Mid)	23800 (High)
Frequency (MHz)	709	710	711	709	710	711
Conducted Power (dBm)	22.65	22.64	22.53	21.72	21.74	21.66
Conducted Power (Watts)	0.18	0.18	0.18	0.15	0.15	0.15
ERP(dBm)	20.45	20.44	20.33	19.52	19.54	19.46
ERP(Watts)	0.11	0.11	0.11	0.09	0.09	0.09



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8820C	6201026480	30MHz~2.7GHz SISO(FDD Band 1~26)	Jan. 04, 2013	Oct. 22, 2013	Jan. 03, 2014	Conducted (TH02-HY)