



FCC TEST REPORT

FCC ID: 2ABNA-P9V

On Behalf of

Guangzhou Geoelectron Science & Technology Company Limited

Wireless Handheld Terminal

Model No.: P9V, P9I, P9IV, P9VI, P9VII, P9VIII, P9IX, P9X, P9V Pro, P9V Lite, P9V STD, P9VA, P9VB, P9VC, P9VD, P9VE, P9VF, P9VG, P9VH, P9VJ, P9VK, P9VL, P9VM, P9VN, P9VO, P9VP, P9VQ, P9VR, P9VS, P9VT, P9VU, P9VV, P9VW, P9VX, P9VY, P9VZ

Prepared for : Guangzhou Geoelectron Science & Technology Company Limited
Address : Room 1201 and 1301, No. 203 Kezhu Road, Science City, Huangpu District, Guangzhou, China

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.
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Date of Receipt : March 12, 2026
Date of Test : March 12, 2026 – July 20, 2026
Date of Report : September 2, 2026
Version Number : V0
Test Result : Pass

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TEST REPORT DECLARATION

Applicant : Guangzhou Geoelectron Science & Technology Company Limited
Address : Room 1201 and 1301, No. 203 Kezhu Road, Science City, Huangpu District,
Guangzhou, China
Manufacturer : Guangzhou Geoelectron Science & Technology Company Limited
Address : Room 1201 and 1301, No. 203 Kezhu Road, Science City, Huangpu District,
Guangzhou, China
EUT Description : Wireless Handheld Terminal

(A) Model No. : P9V, P9I, P9IV, P9VI, P9VII, P9VIII, P9IX, P9X,
P9V Pro, P9V Lite, P9V STD, P9VA, P9VB, P9VC,
P9VD, P9VE, P9VF, P9VG, P9VH, P9VJ, P9VK,
P9VL, P9VM, P9VN, P9VO, P9VP, P9VQ, P9VR,
P9VS, P9VT, P9VU, P9VV, P9VW, P9VX, P9VY,
P9VZ
(B) Trademark : N/A

Measurement Standard Used:

FCC CFR Title 47 Part2
FCC CFR Title 47 Part22 Subpart H
FCC CFR Title 47 Part24 Subpart E
FCC CFR Title 47 Part27
FCC CFR Title 47 Part90

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Taylor Hu
Project Engineer



Approved by (name + signature).....: Alan Fan
Project Manager



Date of issue.....: September 2, 2026

Revision History

Revision	Issue Date	Revisions	Revised By
V0	September 2, 2026	Initial released Issue	Taylor Hu

1 Test Summary

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50(b) Part 27.50(c) Part 27.50(d) Part 27.50(h) Part 90.635	Pass
Peak-to-Average Ratio	Part 2.1046 Part 22.913(d) Part 27.50(d)	Pass
Modulation Characteristics	Part 2.1047	N/A
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 Part 24.238 Part 27.53(a) Part 27.53(h)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691	Pass
Out of band emission, Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54 Part 90.213	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54 Part 90.213	Pass

Note: 1. Pass: The EUT complies with the essential requirements in the standard.

2. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

2 General Information

2.1 General Description of EUT

Description	: Wireless Handheld Terminal
Model No.	: P9V, P9I, P9IV, P9VI, P9VII, P9VIII, P9IX, P9X, P9V Pro, P9V Lite, P9V STD, P9VA, P9VB, P9VC, P9VD, P9VE, P9VF, P9VG, P9VH, P9VJ, P9VK, P9VL, P9VM, P9VN, P9VO, P9VP, P9VQ, P9VR, P9VS, P9VT, P9VU, P9VV, P9VW, P9VX, P9VY, P9VZ
DIFF.	: After verification there is no difference except the name of the model. All tests are made with the P9V model.
Test Voltage	: DC 5V from adapter and DC 3.8V from battery
Support Networks	: GPRS, EGPRS, WCDMA, LTE GSM850 GSM1900 WCDMA Band V WCDMA Band IV WCDMA Band II LTE Band 2 LTE Band 4 LTE Band 5
Support Bands	: LTE Band 7 LTE Band 12 LTE Band 13 LTE Band 17 LTE Band 25 LTE Band 26(L) LTE Band 26(H) LTE Band 41 LTE Band 66 GSM 850: Tx: 824.20 - 848.80MHz GSM1900: Tx: 1850.20 - 1909.80MHz WCDMA Band 2: Tx: 1852.40 - 1907.60MHz WCDMA Band 4: Tx: 1712.40 – 1752.60MHz WCDMA Band 5: Tx: 826.40 – 846.60MHz LTE Band 2: Tx: 1850 - 1910 MHz LTE Band 4: Tx: 1710 - 1755 MHz LTE Band 5: Tx: 824 - 849 MHz
TX Frequency	: LTE Band 7: Tx: 2500 - 2570 MHz LTE Band 12: Tx: 699MHz - 716MHz LTE Band 13: Tx: 777MHz - 787MHz LTE Band 17: Tx: 704 MHz - 716 MHz LTE Band 25: Tx: 1850MHz - 1915MHz LTE Band 26(L): Tx: 814MHz - 824MHz LTE Band 26(H): Tx: 824MHz - 849MHz LTE Band 41: Tx: 2496MHz - 2690MHz LTE Band 66: Tx: 1710MHz ~ 1780MHz LTE Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz
Channel Bandwidth	: LTE Band 13: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26(L): 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 26(H): 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
GPRS Class	: 12

EGPRS Class : 12

Modulation type : GSM Mode with GMSK/8PSK Modulation
WCDMA Mode with QPSK Modulation
LTE Mode with QPSK, 16QAM

Antenna type : FPC antenna

Antenna gain : GSM 850: Maximum Gain is 0.31dBi
GSM1900: Maximum Gain is 2.67dBi
WCDMA Band 2: Maximum Gain is 2.67dBi
WCDMA Band 4: Maximum Gain is 1.13dBi
WCDMA Band 5: Maximum Gain is 0.31dBi
LTE Band 2: Maximum Gain is 2.67dBi
LTE Band 4: Maximum Gain is 1.13dBi
LTE Band 5: Maximum Gain is 0.31dBi
LTE Band 7: Maximum Gain is -0.35dBi
LTE Band 12: Maximum Gain is -2.82dBi
LTE Band 13: Maximum Gain is 0.13dBi
LTE Band 17: Maximum Gain is -2.82dBi
LTE Band 25: Maximum Gain is 2.86dBi
LTE Band 26(L): Maximum Gain is 0.31dBi
LTE Band 26(H): Maximum Gain is 0.31dBi
LTE Band 41: Maximum Gain is -0.35dBi
LTE Band 66: Maximum Gain is 1.56dBi
(Antenna information is provided by applicant.)
(Testing lab is not responsible for the accuracy of the information.)

Software version : V1.0

Hardware version : V1.0

Remark: 1. The worst-case simultaneous transmission configuration was evaluated with no non-compliance found. Results in this report are only for 2G and 3G function, and there is no other transmitter involved.

Test channel List:

Test Channel(MHz)			
Band	Low	Middle	High
GSM850	824.20	836.60	848.80
GSM1900	1850.20	1880.00	1909.80
WCDMA Band 2	1852.4	1880	1907.6
WCDMA Band 4	1712.4	1732.4	1752.6
WCDMA Band 5	826.4	836.6	846.6
LTE Band 2	1850.7	1880	1909.3
LTE Band 4	1710.7	1732.5	1754.3
LTE Band 5	824.7	836.5	848.3
LTE Band 7	2502.5	2535	2567.5
LTE Band 12	699.7	707.5	715.3
LTE Band 13	779.5	782	784.5
LTE Band 17	706.5	710	713.5
LTE Band 25	1850.7	1882.5	1914.3
LTE Band 26 L	814.7	819	823.3
LTE Band 26 H	824.7	836.5	848.3
LTE Band 41	2498.5	2593	2687.5
LTE Band 66	1710.7	1745	1779.3

Note1: for LTE mode, if the bandwidth is different, the test frequency is changed.

2: we pretest all voltage, only the DC 3.8V was worst mode, and the data show in the report.

2.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 2, Part 22 subpart H, Part 24 subpart E, Part 27 subpart C and Part 90 of the FCC CFR 47, KDB 971168 D01 v03r01 and ANSI C63.26.

2.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA 603 ANSI C63.26 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

2.4 Test Facility

Shenzhen Alpha Product Testing Co., Ltd
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961

July 15, 2019 Certificated by IC
Registration Number: 12135A
CAB identifier: CN0085

2.5 Accessories of Device (EUT)

Accessories : Power Supply
Manufacturer : Shenzhen ABP Technology Co., Ltd.
Model : PD0202C
Ratings : INPUT: 100-240V, 50~60Hz, 0.5A Max
Output: 5.0V=3A 15.0W/ 9.0V=2.22A 19.98W/ 12.0V=1.67A 20.04W

2.6 Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDoC
1	N/A	N/A	N/A	N/A	N/A

2.7 Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	24°C
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.8 Measurement Uncertainty

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	1.63dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	3.5dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	4.17dB(Polarize: V)
	4.08dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 18GHz)	4.29dB(Polarize: V)
	4.82dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (18GHz to 40GHz)	4.31dB(Polarize: V)
	4.30dB(Polarize: H)
Uncertainty for radio frequency	5.06×10^{-8} GHz
Uncertainty for conducted RF Power	0.40dB
Uncertainty for temperature	0.3°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%
Uncertainty for Power Spectral Density	0.69dB
Uncertainty for Occupied-Bandwidth	4.22%

3 Test Instruments list

Equipment	Manufacturer	Model No.	Firmware version	Serial No.	Last Cal.	Cal. Due day
9*6*6 anechoic chamber	CHENYU	9*6*6	/	N/A	2025.03.09	2029.03.08
4*4*3 Shielded room	CHENYU	4*4*3	/	N/A	2025.03.09	2029.03.08
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2025.08.04	2026.08.03
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2025.08.04	2026.08.03
Spectrum analyzer	Keysight	N9020A	A.19.05	MY54500254	2025.08.04	2026.08.03
Spectrum analyzer	ROHDE&SCHWARZ	FSU	4.71.SP5	200002	2025.08.04	2026.08.03
CMW500	ROHDE&SCHWARZ	CMW500	V 3.7.22	1201.0002K50-117239-sM	2025.08.04	2026.08.03
UXM 5G Base Wireless Test Platform	Keysight	E7515E	1.8.1.2908 2(NR)(LTE)	MY62226130	2026.03.03	2027.03.02
Test Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-102082-Wa	2025.08.04	2026.08.03
Test Receiver	ROHDE&SCHWARZ	ESCI	4.42 SP1	101165	2025.08.04	2026.08.03
Bilog Antenna	SCHWARZBECK	VULB 9168	/	VULB 9168#627	2025.08.11	2027.08.10
Horn Antenna	SCHWARZBECK	BBHA 9120 D	/	2106	2025.08.11	2027.08.10
Loop Antenna	SCHWARZBECK	FMZB 1519B	/	00128	2025.08.11	2027.08.10
RF Cable	Resenberger	Cable 1	/	RE1	2025.08.04	2026.08.03
RF Cable	Resenberger	Cable 2	/	RE2	2025.08.04	2026.08.03
RF Cable	Resenberger	Cable 3	/	CE1	2025.08.04	2026.08.03
Amplifier	HP	HP8347A	/	2834A00455	2025.08.04	2026.08.03
Amplifier	Agilent	8449B	/	3008A02664	2025.08.04	2026.08.03
Amplifier	SKET	LNPA_0118G-45	/	SK2020010801	2025.08.04	2026.08.03
Filter/Amplifier bank unit	SKET	RSESU-HPH-LNPP18G	/	SK20190712	2025.08.04	2026.08.03
L.I.S.N.#1	SCHWARZBECK	NLSK8126	/	8126-466	2025.08.04	2026.08.03
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	101043	2025.08.04	2026.08.03
Pulse Limiter	SCHWARZBECK	9516F	/	9618	2025.08.04	2026.08.03
Horn Antenna	SCHWARZBECK	BBHA 9170	/	00946	2025.08.11	2027.08.10
Preamplifier	SKET	LNPA_1840-50	/	SK2018101801	2025.08.04	2026.08.03
Vector Signal Generator	Agilent	N5182A	/	MY49060042	2025.08.04	2026.08.03
Vector Signal Generator	Agilent	N5172B	2.02	MY51350397	2025.08.04	2026.08.03
Analog Signal Generator	HP	83712B	10.02	US34490219	2025.08.04	2026.08.03
Power Meter	Agilent	E4419B	/	GB40202122	2025.08.04	2026.08.03
Power Sensor	Agilent	E9300A	/	MY41496628	2025.08.04	2026.08.03
Power Sensor	Agilent	E9304A	/	MY41496815	2025.08.04	2026.08.03
Power Sensor	DARE	RPR3006W	/	15100041SNO91	2025.08.04	2026.08.03
Power Sensor	DARE	RPR3006W	/	15100041SNO92	2025.08.04	2026.08.03
Temp. & Humid. Chamber	Teelong	TL-HW408S	/	TL-20191205-01	2025.07.14	2026.07.13
Electronic Thermo-Hygrometer	S.H.Qixiang	HTC-1	/	N/A	2025.08.04	2026.08.03
Switching Mode Power Supply	JUNKE	JK12010S	/	20140927-6	2025.08.04	2026.08.03
Adjustable attenuator	MWRFTtest	N/A	/	N/A	N/A	N/A
10dB Attenuator	Mini-Circuits	DC-6G	/	N/A	N/A	N/A

6dB Fixed Attenuator	SKET	AP_DC01G-2W-N-6dB	/	N/A	2025.08.04	2026.08.03
Temp. & Humid. Chamber	Teelong	TL-HW408S	/	TL-20191205-01	2026.07.07	2027.07.06

Software Information			
Test Item	Software Name	Manufacturer	Version
RE	EZ-EMC	Farad	Alpha-3A1
RF-CE	DC-TestBase	Decentest	V 6.4.0 1.

4 System test configuration

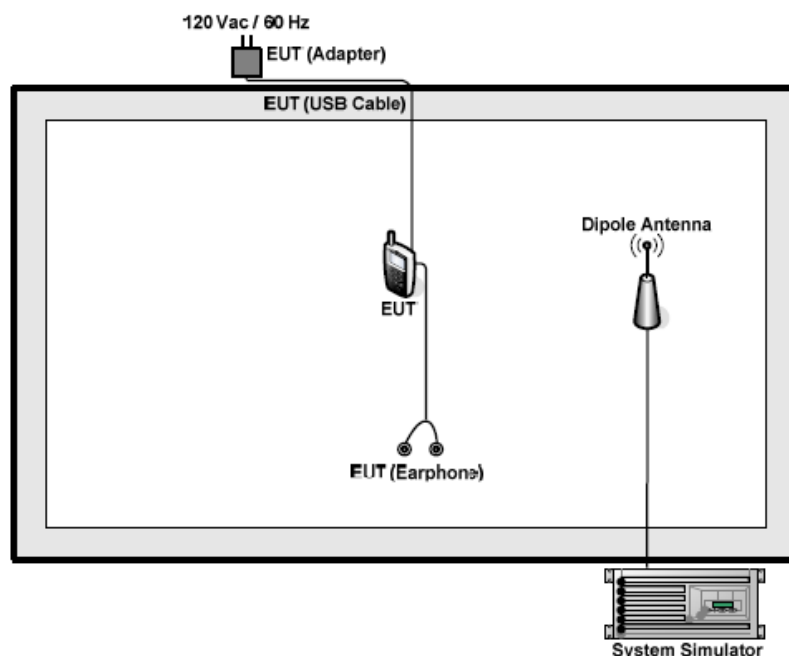
4.1 Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

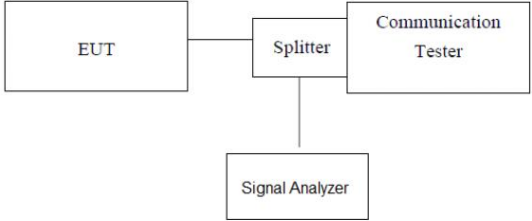
Test modes		
Band	Radiated	Conducted
GSM	☐ GSM link ☒ GPRS 1 link ☒ EPRS 1 link	☐ GSM link ☒ GPRS 1 link ☒ EGPRS 1 link
WCDMA	☒ RMC 12.2Kbps link	☒ RMC 12.2Kbps link
LTE Band 2	☒ QPSK link, 16QAM link	☒ QPSK link, 16QAM link
LTE Band 4	☒ QPSK link, 16QAM link	☒ QPSK link, 16QAM link
LTE Band 5	☒ QPSK link, 16QAM link	☒ QPSK link, 16QAM link
LTE Band 7	☒ QPSK link, 16QAM link	☒ QPSK link, 16QAM link
LTE Band 12	☒ QPSK link, 16QAM link	☒ QPSK link, 16QAM link
LTE Band 13	☒ QPSK link, 16QAM link	☒ QPSK link, 16QAM link
LTE Band 17	☒ QPSK link, 16QAM link	☒ QPSK link, 16QAM link
LTE Band 25	☒ QPSK link, 16QAM link	☒ QPSK link, 16QAM link
LTE Band 26	☒ QPSK link, 16QAM link	☒ QPSK link, 16QAM link
LTE Band 41	☒ QPSK link, 16QAM link	☒ QPSK link, 16QAM link
LTE Band 66	☒ QPSK link, 16QAM link	☒ QPSK link, 16QAM link

Note: The maximum power levels are GSM mode for GMSK link, GPRS multi-slot class 8 mode for GMSK link, EGPRS multi-slot class 8 mode for 8PSK link, RMC12.2Kbps mode for WCDMA Band V/II. Only these modes were used for all tests.

4.2 Configuration of Tested System



4.3 Conducted AV Output Power

Test Requirement:	Part 2.1046, Part 22.913(a), Part 24.232(c), Part 27.50(b), Part 27.50(c), Part 27.50(d), Part 27.50(h), Part 90.635
Test Method:	ANSI C63.26:2015
Limit:	GSM850, WCDMA Band V: 7W(38.45dbm) GSM1900, WCDMA Band II: 2W(33.01dbm) WCDMA Band IV: 1W(30.00dbm) LTE Band 2: 2W LTE Band 4: 1W LTE Band 5: 7W LTE Band 7: 2W LTE Band 12: 3W LTE Band 13: 3W LTE Band 17: 3W LTE Band 25: 2W LTE Band 26(L): 100W LTE Band 26(H): 7W LTE Band 41: 2W LTE Band 66: 1W
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1. The transmitter output port was connected to base station. 2. The RF output of EUT was connected to the Signal Analyzer by RF cable and attenuator, the path loss was compensated to the results for each measurement. 3. Set EUT at maximum power through base station. 4. Select lowest, middle, and highest channels for each band and different modulation. 5. Measure the maximum burst average power.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

GSM 850		Burst Average Conducted power (dBm)		
		Channel/Frequency(MHz)		
		128/824.2	190/836.6	251/848.8
GPRS (GMSK)	1TX slot	23.44	23.62	23.57
	2TX slot	22.66	22.61	22.32
	3TX slot	22.00	21.56	21.87
	4TX slot	21.22	20.52	21.49
GSM 1900		Burst Average Conducted power (dBm)		
		Channel/Frequency(MHz)		
		512/1850.2	661/1880.0	810/1909.8
GPRS (GMSK)	1TX slot	23.06	23.27	23.53
	2TX slot	22.07	22.21	22.28
	3TX slot	21.62	21.52	21.73
	4TX slot	21.22	21.12	20.61

GSM 850		Burst Average Conducted power (dBm)		
		Channel/Frequency(MHz)		
		128/824.2	190/836.6	251/848.8
EGPRS (8PSK)	1TX slot	23.21	23.46	23.07
	2TX slot	22.85	22.07	22.34
	3TX slot	21.80	21.59	21.84
	4TX slot	20.87	21.37	20.83
GSM 1900		Burst Average Conducted power (dBm)		
		Channel/Frequency(MHz)		
		512/1850.2	661/1880.0	810/1909.8
EGPRS (8PSK)	1TX slot	23.14	23.02	23.50
	2TX slot	22.86	22.62	22.88
	3TX slot	21.59	21.84	21.59
	4TX slot	21.41	20.87	20.76

Item	Band	FDD Band II result (dBm)		
		Test Channel		
	ARFCN	9262	9400	9538
RMC	12.2kbps RMC	23.62	23.70	23.62
HSDPA	Sub – Test 1	23.09	23.01	23.50
	Sub – Test 2	22.05	22.16	22.74
	Sub – Test 3	21.80	21.92	21.40
	Sub – Test 4	20.79	21.00	20.58
HSUPA	Sub – Test 1	23.54	23.46	23.17
	Sub – Test 2	23.23	23.10	23.24
	Sub – Test 3	22.18	22.70	22.73
	Sub – Test 4	21.12	21.47	21.70
	Sub – Test 5	20.77	20.51	20.81

Item	Band	FDD Band IV result (dBm)		
		Test Channel		
	ARFCN	1312	1450	1513
RMC	12.2kbps RMC	23.62	23.24	23.15
HSDPA	Sub – Test 1	23.17	23.37	23.13
	Sub – Test 2	22.98	22.42	22.17
	Sub – Test 3	21.87	21.28	21.73
	Sub – Test 4	20.61	20.98	20.76
HSUPA	Sub – Test 1	23.18	23.53	23.29
	Sub – Test 2	23.20	23.19	23.29
	Sub – Test 3	22.63	22.36	22.02
	Sub – Test 4	21.39	21.19	21.80
	Sub – Test 5	20.66	20.61	20.97

Item	Band	FDD Band V result (dBm)		
		Test Channel		
	ARFCN	4132	4183	4233
RMC	12.2kbps RMC	23.84	23.95	23.74
HSDPA	Sub - Test 1	23.39	23.48	23.33
	Sub - Test 2	22.27	22.09	22.32
	Sub - Test 3	21.46	21.95	21.56
	Sub - Test 4	20.66	20.84	20.82
HSUPA	Sub - Test 1	23.50	23.87	23.37
	Sub - Test 2	23.30	23.05	23.38
	Sub - Test 3	22.26	22.46	22.22
	Sub - Test 4	21.15	21.22	21.11
	Sub - Test 5	20.54	20.71	20.78

LTE Band 2						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18700	18900	19100
				1860	1880	1900
20	QPSK	1	0	22.84	22.87	22.94
20	QPSK	1	50	22.60	22.78	22.86
20	QPSK	1	99	22.52	23.09	22.51
20	QPSK	50	0	22.70	22.62	22.63
20	QPSK	50	25	22.53	22.75	22.59
20	QPSK	50	50	22.67	22.59	22.52
20	QPSK	100	0	22.66	22.56	22.96
20	16QAM	1	0	22.92	22.72	22.83
20	16QAM	1	50	22.52	22.64	22.90
20	16QAM	1	99	22.81	23.14	22.54
20	16QAM	50	0	22.59	22.90	22.76
20	16QAM	50	25	22.92	22.76	22.70
20	16QAM	50	50	22.54	22.74	22.82
20	16QAM	100	0	22.67	22.65	22.75
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18675	18900	19125
				1857.5	1880	1902.5
15	QPSK	1	0	22.85	22.63	22.61
15	QPSK	1	38	22.71	22.73	22.57
15	QPSK	1	74	22.82	22.56	22.88
15	QPSK	36	0	22.59	22.67	22.87
15	QPSK	36	18	22.56	22.55	22.62
15	QPSK	36	39	22.91	22.71	22.91
15	QPSK	75	0	22.76	22.94	22.80
15	16QAM	1	0	22.73	22.71	22.53
15	16QAM	1	38	22.94	22.80	22.77
15	16QAM	1	74	22.59	22.63	22.68
15	16QAM	36	0	22.58	22.99	22.94
15	16QAM	36	18	22.92	22.82	22.78
15	16QAM	36	39	22.50	22.62	22.70
15	16QAM	75	0	22.54	22.55	22.92

LTE Band 2						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18650	18900	19150
				1855	1880	1905
10	QPSK	1	0	22.89	22.89	22.73
10	QPSK	1	25	22.74	22.70	22.68
10	QPSK	1	49	22.59	22.61	22.52
10	QPSK	25	0	22.61	22.54	22.52
10	QPSK	25	13	22.88	22.88	22.72
10	QPSK	25	25	22.60	22.90	22.81
10	QPSK	50	0	22.59	22.64	22.73
10	16QAM	1	0	22.90	22.83	22.74
10	16QAM	1	25	22.68	22.98	22.72
10	16QAM	1	49	22.81	22.57	22.86
10	16QAM	25	0	22.76	22.68	22.78
10	16QAM	25	13	22.88	22.99	22.91
10	16QAM	25	25	22.52	22.67	22.55
10	16QAM	50	0	22.55	22.88	22.64
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18625	18900	19175
				1852.5	1880	1907.5
5	QPSK	1	0	22.57	22.96	22.86
5	QPSK	1	13	22.65	22.91	22.59
5	QPSK	1	24	22.53	22.71	22.81
5	QPSK	12	0	22.61	22.93	22.72
5	QPSK	12	6	22.89	22.71	22.72
5	QPSK	12	13	22.59	22.78	22.71
5	QPSK	25	0	22.81	22.82	22.83
5	16QAM	1	0	22.57	22.72	22.56
5	16QAM	1	13	22.88	22.86	22.83
5	16QAM	1	24	22.90	22.70	22.91
5	16QAM	12	0	22.57	22.92	22.53
5	16QAM	12	6	22.56	22.90	22.82
5	16QAM	12	13	22.58	22.77	22.52
5	16QAM	25	0	22.90	22.53	22.66

LTE Band 2						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18615	18900	19185
				1851.5	1880	1908.5
3	QPSK	1	0	22.75	22.57	22.90
3	QPSK	1	7	22.57	22.84	22.80
3	QPSK	1	14	22.69	22.63	22.65
3	QPSK	8	0	22.72	22.93	22.52
3	QPSK	8	4	22.76	22.92	22.79
3	QPSK	8	7	22.80	22.63	22.85
3	QPSK	15	0	22.76	22.76	22.71
3	16QAM	1	0	22.67	22.94	22.93
3	16QAM	1	7	22.86	22.52	22.61
3	16QAM	1	14	22.73	22.59	22.93
3	16QAM	8	0	22.65	22.92	22.93
3	16QAM	8	4	22.86	22.97	22.58
3	16QAM	8	7	22.52	22.58	22.83
3	16QAM	15	0	22.73	22.81	22.78
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18607	18900	19193
				1850.7	1880	1909.3
1.4	QPSK	1	0	22.78	22.87	22.82
1.4	QPSK	1	2	22.62	22.73	22.71
1.4	QPSK	1	5	22.79	22.76	22.55
1.4	QPSK	3	0	22.87	23.00	22.93
1.4	QPSK	3	2	22.54	22.78	22.56
1.4	QPSK	3	3	22.80	22.98	22.72
1.4	QPSK	6	0	22.72	22.87	22.54
1.4	16QAM	1	0	22.64	22.80	22.76
1.4	16QAM	1	2	22.91	22.75	22.68
1.4	16QAM	1	5	22.74	22.84	22.68
1.4	16QAM	3	0	22.83	22.90	22.84
1.4	16QAM	3	2	22.98	22.95	22.91
1.4	16QAM	3	3	22.92	22.69	22.89
1.4	16QAM	6	0	22.56	22.99	22.59

LTE Band 4						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20050	20175	20300
				1720	1732.5	1745
20	QPSK	1	0	22.54	22.52	22.64
20	QPSK	1	50	22.44	22.59	22.37
20	QPSK	1	99	22.75	22.63	22.50
20	QPSK	50	0	22.69	22.89	22.78
20	QPSK	50	25	22.68	22.76	22.55
20	QPSK	50	50	22.80	22.59	22.47
20	QPSK	100	0	22.44	22.75	22.69
20	16QAM	1	0	22.78	22.78	22.55
20	16QAM	1	50	22.33	22.34	22.56
20	16QAM	1	99	22.31	22.68	22.61
20	16QAM	50	0	22.64	22.49	22.59
20	16QAM	50	25	22.65	22.63	22.69
20	16QAM	50	50	22.68	22.81	22.78
20	16QAM	100	0	22.32	22.68	22.33
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20025	20175	20325
				1717.5	1732.5	1747.5
15	QPSK	1	0	22.56	22.42	22.55
15	QPSK	1	38	22.32	22.41	22.62
15	QPSK	1	74	22.49	22.63	22.69
15	QPSK	36	0	22.38	22.70	22.50
15	QPSK	36	18	22.72	22.46	22.68
15	QPSK	36	39	22.62	22.74	22.42
15	QPSK	75	0	22.51	22.63	22.31
15	16QAM	1	0	22.65	22.45	22.77
15	16QAM	1	38	22.71	22.33	22.67
15	16QAM	1	74	22.77	22.46	22.68
15	16QAM	36	0	22.76	22.64	22.44
15	16QAM	36	18	22.50	22.78	22.66
15	16QAM	36	39	22.73	22.31	22.33
15	16QAM	75	0	22.51	22.72	22.54

LTE Band 4						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20000	20175	20350
				1715	1732.5	1750
10	QPSK	1	0	22.51	22.56	22.55
10	QPSK	1	25	22.32	22.46	22.61
10	QPSK	1	49	22.40	22.56	22.43
10	QPSK	25	0	22.33	22.51	22.40
10	QPSK	25	13	22.33	22.74	22.33
10	QPSK	25	25	22.51	22.35	22.61
10	QPSK	50	0	22.55	22.43	22.65
10	16QAM	1	0	22.58	22.72	22.36
10	16QAM	1	25	22.36	22.35	22.71
10	16QAM	1	49	22.40	22.62	22.51
10	16QAM	25	0	22.50	22.77	22.46
10	16QAM	25	13	22.69	22.62	22.38
10	16QAM	25	25	22.57	22.32	22.74
10	16QAM	50	0	22.69	22.58	22.32
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				19975	20175	20375
				1712.5	1732.5	1752.5
5	QPSK	1	0	22.68	22.43	22.47
5	QPSK	1	13	22.38	22.80	22.73
5	QPSK	1	24	22.49	22.60	22.64
5	QPSK	12	0	22.66	22.59	22.61
5	QPSK	12	6	22.35	22.30	22.70
5	QPSK	12	13	22.68	22.43	22.61
5	QPSK	25	0	22.55	22.40	22.34
5	16QAM	1	0	22.51	22.53	22.43
5	16QAM	1	13	22.31	22.73	22.30
5	16QAM	1	24	22.50	22.51	22.47
5	16QAM	12	0	22.65	22.74	22.57
5	16QAM	12	6	22.63	22.35	22.44
5	16QAM	12	13	22.59	22.41	22.33
5	16QAM	25	0	22.64	22.37	22.46

LTE Band 4						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				19965	20175	20385
				1711.5	1732.5	1753.5
3	QPSK	1	0	22.37	22.79	22.31
3	QPSK	1	7	22.33	22.76	22.53
3	QPSK	1	14	22.76	22.50	22.51
3	QPSK	8	0	22.38	22.65	22.53
3	QPSK	8	4	22.67	22.44	22.39
3	QPSK	8	7	22.32	22.53	22.40
3	QPSK	15	0	22.64	22.42	22.59
3	16QAM	1	0	22.65	22.35	22.74
3	16QAM	1	7	22.42	22.77	22.36
3	16QAM	1	14	22.39	22.57	22.58
3	16QAM	8	0	22.67	22.47	22.70
3	16QAM	8	4	22.68	22.58	22.31
3	16QAM	8	7	22.48	22.69	22.71
3	16QAM	15	0	22.67	22.37	22.63
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				19957	20175	20393
				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.40	22.57	22.64
1.4	QPSK	1	2	22.47	22.76	22.40
1.4	QPSK	1	5	22.56	22.71	22.54
1.4	QPSK	3	0	22.52	22.45	22.59
1.4	QPSK	3	2	22.42	22.68	22.51
1.4	QPSK	3	3	22.72	22.69	22.39
1.4	QPSK	6	0	22.66	22.40	22.63
1.4	16QAM	1	0	22.36	22.45	22.73
1.4	16QAM	1	2	22.33	22.79	22.64
1.4	16QAM	1	5	22.75	22.59	22.49
1.4	16QAM	3	0	22.59	22.46	22.67
1.4	16QAM	3	2	22.79	22.67	22.60
1.4	16QAM	3	3	22.44	22.67	22.56
1.4	16QAM	6	0	22.57	22.56	22.40

LTE Band 5						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20460	20530	20600
				829	836.5	844
10	QPSK	1	0	22.84	22.90	22.74
10	QPSK	1	25	22.96	22.84	22.79
10	QPSK	1	49	22.77	22.90	22.92
10	QPSK	25	0	22.83	22.96	22.74
10	QPSK	25	13	22.81	23.15	23.04
10	QPSK	25	25	22.87	22.92	22.78
10	QPSK	50	0	22.98	22.96	22.70
10	16QAM	1	0	22.71	23.03	22.71
10	16QAM	1	25	23.09	22.98	22.89
10	16QAM	1	49	23.04	22.62	23.05
10	16QAM	25	0	22.69	23.14	22.79
10	16QAM	25	13	22.69	23.04	22.91
10	16QAM	25	25	22.65	23.07	23.04
10	16QAM	50	0	22.74	22.78	22.78
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20435	20530	20625
				826.5	836.5	846.5
5	QPSK	1	0	22.72	23.07	23.07
5	QPSK	1	13	22.85	22.72	23.09
5	QPSK	1	24	22.65	23.05	22.94
5	QPSK	12	0	22.94	22.96	22.76
5	QPSK	12	6	22.95	23.09	22.77
5	QPSK	12	13	22.67	23.10	22.73
5	QPSK	25	0	22.71	22.76	23.07
5	16QAM	1	0	22.88	22.73	22.72
5	16QAM	1	13	22.71	23.08	23.00
5	16QAM	1	24	22.70	23.09	22.63
5	16QAM	12	0	22.68	23.06	22.88
5	16QAM	12	6	22.76	22.75	22.90
5	16QAM	12	13	23.07	22.86	22.72
5	16QAM	25	0	22.90	22.83	22.90

LTE Band 5						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20425	20530	20635
				826.5	836.5	847.5
3	QPSK	1	0	22.75	23.01	22.79
3	QPSK	1	7	22.61	22.93	22.87
3	QPSK	1	14	22.91	22.89	22.69
3	QPSK	8	0	23.02	23.07	22.99
3	QPSK	8	4	22.82	22.81	22.98
3	QPSK	8	7	22.77	22.65	22.99
3	QPSK	15	0	22.68	22.61	22.79
3	16QAM	1	0	22.71	23.05	22.74
3	16QAM	1	7	23.00	22.64	22.65
3	16QAM	1	14	22.84	22.72	22.94
3	16QAM	8	0	22.97	22.77	22.61
3	16QAM	8	4	22.84	22.63	22.68
3	16QAM	8	7	22.92	22.67	22.84
3	16QAM	15	0	22.62	22.69	22.95
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20417	20530	20643
				824.7	836.5	848.3
1.4	QPSK	1	0	22.66	22.82	22.97
1.4	QPSK	1	2	23.02	23.03	22.91
1.4	QPSK	1	5	22.99	23.08	22.69
1.4	QPSK	3	0	22.67	22.62	22.82
1.4	QPSK	3	2	22.98	22.77	22.81
1.4	QPSK	3	3	22.95	22.96	22.64
1.4	QPSK	6	0	22.64	22.89	22.95
1.4	16QAM	1	0	23.04	22.61	22.99
1.4	16QAM	1	2	22.88	22.84	22.88
1.4	16QAM	1	5	22.66	22.65	23.06
1.4	16QAM	3	0	22.94	22.77	22.90
1.4	16QAM	3	2	22.98	22.70	22.63
1.4	16QAM	3	3	22.74	23.10	22.62
1.4	16QAM	6	0	22.86	22.81	22.64

LTE Band 7						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20850	21100	21350
				2510	2535	2560
20	QPSK	1	0	22.56	22.34	22.39
20	QPSK	1	50	22.49	22.49	22.47
20	QPSK	1	99	22.67	22.49	22.65
20	QPSK	50	0	22.26	22.39	22.22
20	QPSK	50	25	22.45	22.51	22.68
20	QPSK	50	50	22.34	22.73	22.46
20	QPSK	100	0	22.27	22.60	22.60
20	16QAM	1	0	22.52	22.33	22.34
20	16QAM	1	50	22.56	22.77	22.24
20	16QAM	1	99	22.60	22.53	22.39
20	16QAM	50	0	22.66	22.45	22.44
20	16QAM	50	25	22.38	22.22	22.23
20	16QAM	50	50	22.22	22.57	22.37
20	16QAM	100	0	22.58	22.54	22.65
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20825	21100	21375
				2507.5	2535	2562.5
15	QPSK	1	0	22.62	22.55	22.67
15	QPSK	1	38	22.46	22.68	22.54
15	QPSK	1	74	22.59	22.61	22.64
15	QPSK	36	0	22.52	22.55	22.25
15	QPSK	36	18	22.45	22.63	22.25
15	QPSK	36	39	22.54	22.49	22.45
15	QPSK	75	0	22.42	22.51	22.21
15	16QAM	1	0	22.31	22.20	22.40
15	16QAM	1	38	22.41	22.44	22.45
15	16QAM	1	74	22.22	22.22	22.29
15	16QAM	36	0	22.33	22.26	22.41
15	16QAM	36	18	22.57	22.60	22.59
15	16QAM	36	39	22.31	22.43	22.57
15	16QAM	75	0	22.46	22.62	22.42

LTE Band 7						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20800	2110	21400
				2505	2535	2565
10	QPSK	1	0	22.53	22.39	22.67
10	QPSK	1	25	22.35	22.35	22.61
10	QPSK	1	49	22.20	22.35	22.23
10	QPSK	25	0	22.52	22.26	22.44
10	QPSK	25	13	22.26	22.40	22.58
10	QPSK	25	25	22.28	22.69	22.30
10	QPSK	50	0	22.60	22.21	22.60
10	16QAM	1	0	22.24	22.26	22.22
10	16QAM	1	25	22.38	22.39	22.30
10	16QAM	1	49	22.35	22.50	22.40
10	16QAM	25	0	22.42	22.64	22.41
10	16QAM	25	13	22.27	22.67	22.44
10	16QAM	25	25	22.46	22.68	22.59
10	16QAM	50	0	22.33	22.38	22.56
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20755	21100	21425
				2502.5	2535	2567.5
5	QPSK	1	0	22.56	22.47	22.55
5	QPSK	1	13	22.61	22.45	22.54
5	QPSK	1	24	22.47	22.68	22.65
5	QPSK	12	0	22.34	22.50	22.56
5	QPSK	12	6	22.22	22.57	22.43
5	QPSK	12	13	22.53	22.40	22.53
5	QPSK	25	0	22.29	22.48	22.62
5	16QAM	1	0	22.25	22.44	22.64
5	16QAM	1	13	22.53	22.53	22.60
5	16QAM	1	24	22.20	22.61	22.57
5	16QAM	12	0	22.41	22.25	22.30
5	16QAM	12	6	22.43	22.28	22.22
5	16QAM	12	13	22.22	22.67	22.55
5	16QAM	25	0	22.24	22.30	22.64

LTE Band 12						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23060	23095	23130
				704	707.5	711
10	QPSK	1	0	22.50	22.52	22.88
10	QPSK	1	25	22.46	22.60	22.90
10	QPSK	1	49	22.80	22.93	22.85
10	QPSK	25	0	22.70	22.84	22.44
10	QPSK	25	13	22.79	22.80	22.41
10	QPSK	25	25	22.83	22.88	22.74
10	QPSK	50	0	22.55	22.64	22.63
10	16QAM	1	0	22.66	22.80	22.70
10	16QAM	1	25	22.48	22.63	22.46
10	16QAM	1	49	22.62	22.48	22.66
10	16QAM	25	0	22.86	22.95	22.43
10	16QAM	25	13	22.53	22.50	22.45
10	16QAM	25	25	22.47	22.69	22.56
10	16QAM	50	0	22.88	22.58	22.52
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23035	23095	23155
				701.5	707.5	713.5
5	QPSK	1	0	22.80	22.54	22.53
5	QPSK	1	13	22.64	22.79	22.56
5	QPSK	1	24	22.66	22.83	22.54
5	QPSK	12	0	22.62	22.54	22.53
5	QPSK	12	6	22.43	22.57	22.49
5	QPSK	12	13	22.75	22.55	22.79
5	QPSK	25	0	22.48	22.84	22.65
5	16QAM	1	0	22.69	22.71	22.64
5	16QAM	1	13	22.73	22.88	22.70
5	16QAM	1	24	22.64	22.86	22.42
5	16QAM	12	0	22.84	22.65	22.59
5	16QAM	12	6	22.57	22.47	22.74
5	16QAM	12	13	22.75	22.52	22.76
5	16QAM	25	0	22.87	22.68	22.82

LTE Band 12						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23025	23095	23165
				700.5	707.5	714.5
3	QPSK	1	0	22.86	22.58	22.79
3	QPSK	1	7	22.74	22.67	22.77
3	QPSK	1	14	22.54	22.62	22.80
3	QPSK	8	0	22.67	22.87	22.68
3	QPSK	8	4	22.63	22.82	22.46
3	QPSK	8	7	22.56	22.49	22.69
3	QPSK	15	0	22.40	22.44	22.48
3	16QAM	1	0	22.76	22.52	22.76
3	16QAM	1	7	22.82	22.86	22.57
3	16QAM	1	14	22.69	22.82	22.53
3	16QAM	8	0	22.46	22.82	22.57
3	16QAM	8	4	22.50	22.63	22.72
3	16QAM	8	7	22.71	22.54	22.81
3	16QAM	15	0	22.46	22.53	22.65
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23017	23095	23173
				699.7	707.5	715.3
1.4	QPSK	1	0	22.70	22.86	22.79
1.4	QPSK	1	2	22.49	22.80	22.66
1.4	QPSK	1	5	22.73	22.75	22.62
1.4	QPSK	3	0	22.54	22.64	22.69
1.4	QPSK	3	2	22.82	22.61	22.40
1.4	QPSK	3	3	22.83	22.40	22.55
1.4	QPSK	6	0	22.51	22.47	22.51
1.4	16QAM	1	0	22.65	22.42	22.41
1.4	16QAM	1	2	22.88	22.88	22.45
1.4	16QAM	1	5	22.88	22.40	22.69
1.4	16QAM	3	0	22.54	22.82	22.81
1.4	16QAM	3	2	22.54	22.50	22.86
1.4	16QAM	3	3	22.66	22.89	22.60
1.4	16QAM	6	0	22.53	22.77	22.83

LTE Band 13						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23230	23230	23230
				782	782	782
10	QPSK	1	0	22.15	22.38	22.45
10	QPSK	1	25	22.11	22.57	22.38
10	QPSK	1	49	22.30	22.67	22.38
10	QPSK	25	0	22.30	22.13	22.49
10	QPSK	25	13	22.45	22.56	22.48
10	QPSK	25	25	22.32	22.55	22.19
10	QPSK	50	0	22.18	22.40	22.33
10	16QAM	1	0	22.31	22.18	22.21
10	16QAM	1	25	22.58	22.15	22.44
10	16QAM	1	49	22.19	22.29	22.19
10	16QAM	25	0	22.38	22.39	22.22
10	16QAM	25	13	22.51	22.63	22.19
10	16QAM	25	25	22.11	22.21	22.46
10	16QAM	50	0	22.18	22.41	22.19
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23205	23230	23255
				779.5	782	784.5
5	QPSK	1	0	22.30	22.33	22.46
5	QPSK	1	13	22.20	22.59	22.13
5	QPSK	1	24	22.27	22.13	22.56
5	QPSK	12	0	22.38	22.46	22.49
5	QPSK	12	6	22.46	22.27	22.50
5	QPSK	12	13	22.19	22.30	22.42
5	QPSK	25	0	22.18	22.30	22.25
5	16QAM	1	0	22.35	22.17	22.15
5	16QAM	1	13	22.19	22.16	22.23
5	16QAM	1	24	22.39	22.41	22.21
5	16QAM	12	0	22.42	22.14	22.34
5	16QAM	12	6	22.13	22.57	22.19
5	16QAM	12	13	22.29	22.22	22.16
5	16QAM	25	0	22.12	22.47	22.53

LTE Band 17						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23780	23790	23800
				709	710	711
10	QPSK	1	0	22.73	22.83	22.55
10	QPSK	1	25	22.69	22.96	22.77
10	QPSK	1	49	22.86	22.53	22.93
10	QPSK	25	0	22.54	22.78	22.58
10	QPSK	25	13	22.84	23.01	22.58
10	QPSK	25	25	22.89	22.55	22.97
10	QPSK	50	0	22.73	22.94	22.86
10	16QAM	1	0	22.83	23.06	22.95
10	16QAM	1	25	22.67	22.90	22.81
10	16QAM	1	49	22.54	22.63	22.88
10	16QAM	25	0	22.59	22.95	22.64
10	16QAM	25	13	22.88	22.52	22.80
10	16QAM	25	25	22.69	22.65	22.58
10	16QAM	50	0	22.73	22.86	22.52
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23755	23790	23155
				706.5	710	713.5
5	QPSK	1	0	22.53	22.99	22.73
5	QPSK	1	13	22.90	22.94	22.52
5	QPSK	1	24	22.86	22.96	22.99
5	QPSK	12	0	22.84	22.82	22.87
5	QPSK	12	6	22.69	22.81	22.71
5	QPSK	12	13	22.65	22.54	22.59
5	QPSK	25	0	22.77	22.94	22.74
5	16QAM	1	0	22.79	22.94	22.77
5	16QAM	1	13	22.54	22.96	22.57
5	16QAM	1	24	22.59	22.85	22.78
5	16QAM	12	0	22.77	22.63	22.60
5	16QAM	12	6	22.96	22.79	22.60
5	16QAM	12	13	22.52	22.91	22.93
5	16QAM	25	0	22.62	22.83	22.89

LTE Band 25						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26140	26365	26590
				1860	1882.5	1905
20	QPSK	1	0	22.42	22.53	22.32
20	QPSK	1	50	22.30	22.46	22.42
20	QPSK	1	99	22.44	22.45	22.56
20	QPSK	50	0	22.22	22.70	22.47
20	QPSK	50	25	22.49	22.67	22.25
20	QPSK	50	50	22.65	22.72	22.58
20	QPSK	100	0	22.28	22.35	22.63
20	16QAM	1	0	22.48	22.35	22.36
20	16QAM	1	50	22.32	22.39	22.23
20	16QAM	1	99	22.35	22.52	22.21
20	16QAM	50	0	22.24	22.41	22.49
20	16QAM	50	25	22.61	22.77	22.53
20	16QAM	50	50	22.33	22.49	22.53
20	16QAM	100	0	22.65	22.32	22.22
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26115	26365	26615
				1857.5	1882.5	1907.5
15	QPSK	1	0	22.58	22.70	22.45
15	QPSK	1	38	22.23	22.27	22.23
15	QPSK	1	74	22.27	22.21	22.70
15	QPSK	36	0	22.48	22.66	22.54
15	QPSK	36	18	22.68	22.51	22.48
15	QPSK	36	39	22.43	22.45	22.38
15	QPSK	75	0	22.69	22.49	22.39
15	16QAM	1	0	22.66	22.65	22.49
15	16QAM	1	38	22.41	22.41	22.33
15	16QAM	1	74	22.54	22.68	22.42
15	16QAM	36	0	22.61	22.45	22.31
15	16QAM	36	18	22.54	22.41	22.30
15	16QAM	36	39	22.38	22.67	22.51
15	16QAM	75	0	22.64	22.54	22.23

LTE Band 25						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26090	26365	26640
				1855	1882.5	1910
10	QPSK	1	0	22.33	22.64	22.66
10	QPSK	1	25	22.22	22.69	22.36
10	QPSK	1	49	22.44	22.27	22.68
10	QPSK	25	0	22.31	22.56	22.63
10	QPSK	25	13	22.61	22.41	22.28
10	QPSK	25	25	22.30	22.29	22.20
10	QPSK	50	0	22.54	22.27	22.46
10	16QAM	1	0	22.54	22.68	22.36
10	16QAM	1	25	22.62	22.63	22.62
10	16QAM	1	49	22.38	22.28	22.28
10	16QAM	25	0	22.24	22.44	22.48
10	16QAM	25	13	22.66	22.69	22.43
10	16QAM	25	25	22.59	22.33	22.34
10	16QAM	50	0	22.48	22.43	22.50
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26065	26365	26665
				1852.5	1882.5	1912.5
5	QPSK	1	0	22.31	22.64	22.24
5	QPSK	1	13	22.58	22.69	22.52
5	QPSK	1	24	22.32	22.50	22.38
5	QPSK	12	0	22.30	22.44	22.48
5	QPSK	12	6	22.35	22.35	22.64
5	QPSK	12	13	22.41	22.37	22.66
5	QPSK	25	0	22.35	22.44	22.20
5	16QAM	1	0	22.40	22.38	22.38
5	16QAM	1	13	22.57	22.66	22.39
5	16QAM	1	24	22.62	22.31	22.43
5	16QAM	12	0	22.42	22.55	22.66
5	16QAM	12	6	22.34	22.28	22.65
5	16QAM	12	13	22.51	22.24	22.29
5	16QAM	25	0	22.66	22.67	22.52

LTE Band 25						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26055	26365	26675
				1851.5	1882.5	1913.5
3	QPSK	1	0	22.32	22.69	22.34
3	QPSK	1	7	22.24	22.34	22.47
3	QPSK	1	14	22.37	22.54	22.51
3	QPSK	8	0	22.54	22.28	22.49
3	QPSK	8	4	22.56	22.30	22.23
3	QPSK	8	7	22.22	22.22	22.54
3	QPSK	15	0	22.48	22.36	22.63
3	16QAM	1	0	22.64	22.44	22.27
3	16QAM	1	7	22.42	22.31	22.52
3	16QAM	1	14	22.31	22.41	22.32
3	16QAM	8	0	22.39	22.66	22.46
3	16QAM	8	4	22.63	22.21	22.40
3	16QAM	8	7	22.56	22.28	22.48
3	16QAM	15	0	22.33	22.48	22.52
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26047	26365	26683
				1850.7	1882.5	1914.3
1.4	QPSK	1	0	22.26	22.23	22.52
1.4	QPSK	1	2	22.25	22.32	22.36
1.4	QPSK	1	5	22.62	22.42	22.70
1.4	QPSK	3	0	22.51	22.34	22.21
1.4	QPSK	3	2	22.70	22.37	22.62
1.4	QPSK	3	3	22.61	22.70	22.63
1.4	QPSK	6	0	22.65	22.21	22.28
1.4	16QAM	1	0	22.21	22.51	22.44
1.4	16QAM	1	2	22.28	22.56	22.36
1.4	16QAM	1	5	22.25	22.43	22.42
1.4	16QAM	3	0	22.25	22.56	22.41
1.4	16QAM	3	2	22.42	22.31	22.37
1.4	16QAM	3	3	22.56	22.23	22.29
1.4	16QAM	6	0	22.33	22.51	22.33

LTE Band 26 (L)						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				/	26740	/
				/	819	/
10	QPSK	1	0	/	23.08	/
10	QPSK	1	25	/	22.96	/
10	QPSK	1	49	/	22.74	/
10	QPSK	25	0	/	23.17	/
10	QPSK	25	13	/	22.68	/
10	QPSK	25	25	/	22.82	/
10	QPSK	50	0	/	22.65	/
10	16QAM	1	0	/	22.93	/
10	16QAM	1	25	/	22.63	/
10	16QAM	1	49	/	23.11	/
10	16QAM	25	0	/	22.78	/
10	16QAM	25	13	/	22.97	/
10	16QAM	25	25	/	23.02	/
10	16QAM	50	0	/	22.68	/
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26715	26740	26765
				816.5	819	821.5
5	QPSK	1	0	22.83	22.85	22.96
5	QPSK	1	13	22.60	22.74	22.95
5	QPSK	1	24	22.82	22.97	22.73
5	QPSK	12	0	22.85	22.92	22.69
5	QPSK	12	6	22.94	23.01	22.61
5	QPSK	12	13	22.79	22.64	23.00
5	QPSK	25	0	22.81	22.83	22.65
5	16QAM	1	0	23.09	23.07	22.99
5	16QAM	1	13	22.97	23.03	22.78
5	16QAM	1	24	22.61	23.09	23.03
5	16QAM	12	0	22.88	22.63	22.92
5	16QAM	12	6	22.73	23.07	23.08
5	16QAM	12	13	22.96	22.89	22.77
5	16QAM	25	0	23.05	22.77	23.00

LTE Band 26 (L)						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26705	26740	26775
				815.5	819	822.5
3	QPSK	1	0	22.67	22.66	22.64
3	QPSK	1	7	22.61	23.02	22.96
3	QPSK	1	14	22.67	22.83	22.92
3	QPSK	8	0	22.76	22.71	22.72
3	QPSK	8	4	22.87	22.83	23.01
3	QPSK	8	7	23.02	22.78	22.66
3	QPSK	15	0	22.64	22.63	22.73
3	16QAM	1	0	22.67	22.65	22.63
3	16QAM	1	7	22.86	23.03	22.63
3	16QAM	1	14	22.62	22.71	22.71
3	16QAM	8	0	22.71	22.98	22.76
3	16QAM	8	4	22.81	22.87	22.73
3	16QAM	8	7	22.75	22.86	22.64
3	16QAM	15	0	22.66	22.85	22.63
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26697	26740	26783
				814.7	819	823.3
1.4	QPSK	1	0	22.62	23.08	23.03
1.4	QPSK	1	2	22.68	23.03	22.95
1.4	QPSK	1	5	22.81	22.95	22.94
1.4	QPSK	3	0	22.81	22.65	22.65
1.4	QPSK	3	2	22.82	22.91	22.73
1.4	QPSK	3	3	22.92	22.77	22.64
1.4	QPSK	6	0	22.68	22.70	22.93
1.4	16QAM	1	0	22.79	22.93	23.05
1.4	16QAM	1	2	22.62	22.82	22.68
1.4	16QAM	1	5	22.76	23.05	22.66
1.4	16QAM	3	0	22.99	22.79	22.87
1.4	16QAM	3	2	23.03	22.90	22.66
1.4	16QAM	3	3	22.92	23.10	22.76
1.4	16QAM	6	0	22.62	22.92	22.90

LTE Band 26 (H)						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26865	26915	26965
				831.5	836.5	841.5
15	QPSK	1	0	22.61	22.94	22.47
15	QPSK	1	38	22.76	22.75	22.69
15	QPSK	1	74	22.62	22.76	22.48
15	QPSK	36	0	22.68	22.80	22.64
15	QPSK	36	18	22.46	22.47	22.71
15	QPSK	36	39	22.81	22.76	22.48
15	QPSK	75	0	22.78	22.51	22.67
15	16QAM	1	0	22.48	22.57	22.47
15	16QAM	1	38	22.57	22.60	22.70
15	16QAM	1	74	22.80	22.96	22.52
15	16QAM	36	0	22.52	22.77	22.82
15	16QAM	36	18	22.48	22.46	22.80
15	16QAM	36	39	22.84	22.54	22.48
15	16QAM	75	0	22.77	22.46	22.83
LTE Band 26 (H)						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26840	26915	26990
				829	836.5	844
10	QPSK	1	0	22.46	22.69	22.60
10	QPSK	1	25	22.65	22.81	22.42
10	QPSK	1	49	22.50	22.55	22.67
10	QPSK	25	0	22.55	22.45	22.70
10	QPSK	25	13	22.59	22.86	22.53
10	QPSK	25	25	22.47	22.45	22.67
10	QPSK	50	0	22.51	22.74	22.70
10	16QAM	1	0	22.86	22.55	22.59
10	16QAM	1	25	22.48	22.67	22.80
10	16QAM	1	49	22.64	22.41	22.53
10	16QAM	25	0	22.50	22.57	22.47
10	16QAM	25	13	22.86	22.66	22.50
10	16QAM	25	25	22.42	22.69	22.81
10	16QAM	50	0	22.51	22.90	22.60

LTE Band 26 (H)						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26815	26915	27015
				826.5	836.5	846.5
5	QPSK	1	0	22.81	22.62	22.68
5	QPSK	1	13	22.62	22.65	22.48
5	QPSK	1	24	22.50	22.63	22.60
5	QPSK	12	0	22.71	22.64	22.44
5	QPSK	12	6	22.83	22.84	22.51
5	QPSK	12	13	22.81	22.85	22.74
5	QPSK	25	0	22.83	22.73	22.42
5	16QAM	1	0	22.73	22.67	22.60
5	16QAM	1	13	22.63	22.77	22.42
5	16QAM	1	24	22.67	22.69	22.79
5	16QAM	12	0	22.65	22.87	22.56
5	16QAM	12	6	22.59	22.85	22.70
5	16QAM	12	13	22.64	22.81	22.51
5	16QAM	25	0	22.47	22.79	22.85
LTE Band 26 (H)						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26815	26915	27025
				826.5	836.5	847.5
3	QPSK	1	0	22.53	22.47	22.82
3	QPSK	1	7	22.63	22.64	22.52
3	QPSK	1	14	22.41	22.84	22.55
3	QPSK	8	0	22.87	22.87	22.78
3	QPSK	8	4	22.46	22.44	22.51
3	QPSK	8	7	22.84	22.84	22.48
3	QPSK	15	0	22.70	22.60	22.44
3	16QAM	1	0	22.76	22.83	22.52
3	16QAM	1	7	22.48	22.43	22.75
3	16QAM	1	14	22.74	22.44	22.73
3	16QAM	8	0	22.47	22.54	22.77
3	16QAM	8	4	22.71	22.68	22.60
3	16QAM	8	7	22.46	22.58	22.49
3	16QAM	15	0	22.45	22.62	22.40

LTE Band 26 (H)						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26795	26915	27033
				824.7	836.5	848.3
1.4	QPSK	1	0	22.51	22.45	22.48
1.4	QPSK	1	2	22.73	22.80	22.70
1.4	QPSK	1	5	22.76	22.71	22.53
1.4	QPSK	3	0	22.56	22.80	22.64
1.4	QPSK	3	2	22.51	22.63	22.68
1.4	QPSK	3	3	22.49	22.83	22.42
1.4	QPSK	6	0	22.42	22.87	22.50
1.4	16QAM	1	0	22.61	22.77	22.50
1.4	16QAM	1	2	22.50	22.51	22.54
1.4	16QAM	1	5	22.84	22.84	22.54
1.4	16QAM	3	0	22.62	22.82	22.72
1.4	16QAM	3	2	22.40	22.83	22.77
1.4	16QAM	3	3	22.70	22.53	22.50
1.4	16QAM	6	0	22.70	22.42	22.62

LTE Band 41						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				39750	40620	41490
				2506	2593	2680
20	QPSK	1	0	22.49	22.20	22.55
20	QPSK	1	50	22.10	22.40	22.33
20	QPSK	1	99	22.25	22.30	22.29
20	QPSK	50	0	22.33	22.17	22.43
20	QPSK	50	25	22.24	22.65	22.29
20	QPSK	50	50	22.48	22.30	22.22
20	QPSK	100	0	22.17	22.25	22.57
20	16QAM	1	0	22.52	22.59	22.21
20	16QAM	1	50	22.28	22.19	22.50
20	16QAM	1	99	22.32	22.63	22.33
20	16QAM	50	0	22.47	22.58	22.47
20	16QAM	50	25	22.16	22.25	22.26
20	16QAM	50	50	22.45	22.52	22.40
20	16QAM	100	0	22.43	22.37	22.54
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				39725	40620	41515
				2503.5	2593	2682.5
15	QPSK	1	0	22.30	22.18	22.29
15	QPSK	1	38	22.29	22.58	22.15
15	QPSK	1	74	22.43	22.39	22.42
15	QPSK	36	0	22.39	22.53	22.42
15	QPSK	36	18	22.20	22.41	22.38
15	QPSK	36	39	22.52	22.39	22.38
15	QPSK	75	0	22.32	22.38	22.24
15	16QAM	1	0	22.29	22.25	22.46
15	16QAM	1	38	22.21	22.34	22.29
15	16QAM	1	74	22.47	22.60	22.51
15	16QAM	36	0	22.17	22.28	22.19
15	16QAM	36	18	22.15	22.48	22.25
15	16QAM	36	39	22.41	22.11	22.37
15	16QAM	75	0	22.47	22.54	22.55

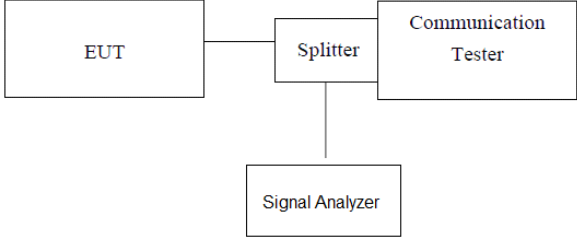
LTE Band 41						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				39700	40620	41540
				2501	2593	2685
10	QPSK	1	0	22.47	22.46	22.24
10	QPSK	1	25	22.49	22.56	22.18
10	QPSK	1	49	22.49	22.56	22.52
10	QPSK	25	0	22.53	22.34	22.26
10	QPSK	25	13	22.19	22.44	22.28
10	QPSK	25	25	22.46	22.36	22.31
10	QPSK	50	0	22.13	22.38	22.11
10	16QAM	1	0	22.26	22.44	22.37
10	16QAM	1	25	22.13	22.18	22.50
10	16QAM	1	49	22.35	22.47	22.19
10	16QAM	25	0	22.52	22.58	22.34
10	16QAM	25	13	22.52	22.18	22.38
10	16QAM	25	25	22.22	22.41	22.17
10	16QAM	50	0	22.39	22.47	22.43
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				39675	40620	41565
				2498.5	2593	2687.5
5	QPSK	1	0	22.22	22.37	22.45
5	QPSK	1	13	22.29	22.35	22.29
5	QPSK	1	24	22.43	22.19	22.47
5	QPSK	12	0	22.34	22.40	22.31
5	QPSK	12	6	22.21	22.12	22.42
5	QPSK	12	13	22.30	22.32	22.11
5	QPSK	25	0	22.45	22.57	22.51
5	16QAM	1	0	22.29	22.51	22.53
5	16QAM	1	13	22.58	22.18	22.22
5	16QAM	1	24	22.36	22.59	22.48
5	16QAM	12	0	22.28	22.22	22.36
5	16QAM	12	6	22.54	22.13	22.46
5	16QAM	12	13	22.25	22.40	22.17
5	16QAM	25	0	22.12	22.39	22.23

LTE Band 66						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				132072	132322	132572
				1720	1745	1770
20	QPSK	1	0	22.36	22.44	22.74
20	QPSK	1	50	22.59	22.77	22.51
20	QPSK	1	99	22.46	22.85	22.71
20	QPSK	50	0	22.38	22.53	22.40
20	QPSK	50	25	22.77	22.66	22.44
20	QPSK	50	50	22.47	22.72	22.51
20	QPSK	100	0	22.73	22.67	22.44
20	16QAM	1	0	22.72	22.49	22.41
20	16QAM	1	50	22.41	22.49	22.70
20	16QAM	1	99	22.54	22.35	22.49
20	16QAM	50	0	22.51	22.53	22.46
20	16QAM	50	25	22.71	22.48	22.39
20	16QAM	50	50	22.46	22.88	22.73
20	16QAM	100	0	22.74	22.37	22.45
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				132047	132322	132597
				1717.5	1745	1772.5
15	QPSK	1	0	22.73	22.80	22.58
15	QPSK	1	38	22.56	22.66	22.53
15	QPSK	1	74	22.71	22.73	22.49
15	QPSK	36	0	22.74	22.64	22.44
15	QPSK	36	18	22.55	22.63	22.43
15	QPSK	36	39	22.36	22.35	22.59
15	QPSK	75	0	22.72	22.64	22.36
15	16QAM	1	0	22.64	22.40	22.66
15	16QAM	1	38	22.76	22.37	22.61
15	16QAM	1	74	22.57	22.50	22.58
15	16QAM	36	0	22.66	22.76	22.74
15	16QAM	36	18	22.31	22.57	22.48
15	16QAM	36	39	22.42	22.71	22.74
15	16QAM	75	0	22.73	22.76	22.45

LTE Band 66						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				132022	132322	132622
				1715	1745	1775
10	QPSK	1	0	22.32	22.74	22.59
10	QPSK	1	25	22.55	22.41	22.75
10	QPSK	1	49	22.59	22.72	22.63
10	QPSK	25	0	22.64	22.31	22.68
10	QPSK	25	13	22.32	22.75	22.63
10	QPSK	25	25	22.44	22.55	22.67
10	QPSK	50	0	22.75	22.53	22.50
10	16QAM	1	0	22.52	22.37	22.32
10	16QAM	1	25	22.47	22.37	22.38
10	16QAM	1	49	22.70	22.35	22.30
10	16QAM	25	0	22.37	22.62	22.65
10	16QAM	25	13	22.44	22.80	22.70
10	16QAM	25	25	22.62	22.51	22.70
10	16QAM	50	0	22.59	22.79	22.75
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				131997	132322	132647
				1712.5	1745	1777.5
5	QPSK	1	0	22.73	22.48	22.74
5	QPSK	1	13	22.51	22.66	22.63
5	QPSK	1	24	22.57	22.78	22.33
5	QPSK	12	0	22.63	22.72	22.78
5	QPSK	12	6	22.35	22.46	22.59
5	QPSK	12	13	22.44	22.67	22.76
5	QPSK	25	0	22.76	22.78	22.66
5	16QAM	1	0	22.57	22.73	22.58
5	16QAM	1	13	22.33	22.36	22.34
5	16QAM	1	24	22.71	22.43	22.37
5	16QAM	12	0	22.60	22.44	22.40
5	16QAM	12	6	22.71	22.54	22.41
5	16QAM	12	13	22.65	22.37	22.70
5	16QAM	25	0	22.51	22.70	22.32

LTE Band 66						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				131987	132322	132657
				1711.5	1745	1778.5
3	QPSK	1	0	22.63	22.34	22.36
3	QPSK	1	7	22.43	22.33	22.53
3	QPSK	1	14	22.71	22.80	22.39
3	QPSK	8	0	22.38	22.66	22.41
3	QPSK	8	4	22.78	22.31	22.62
3	QPSK	8	7	22.73	22.55	22.50
3	QPSK	15	0	22.44	22.72	22.54
3	16QAM	1	0	22.67	22.59	22.76
3	16QAM	1	7	22.67	22.43	22.76
3	16QAM	1	14	22.56	22.77	22.48
3	16QAM	8	0	22.64	22.59	22.38
3	16QAM	8	4	22.77	22.53	22.66
3	16QAM	8	7	22.54	22.78	22.42
3	16QAM	15	0	22.44	22.73	22.47
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				131979	132322	132665
				1710.7	1745	1779.3
1.4	QPSK	1	0	22.48	22.53	22.44
1.4	QPSK	1	2	22.43	22.42	22.40
1.4	QPSK	1	5	22.32	22.78	22.76
1.4	QPSK	3	0	22.75	22.75	22.32
1.4	QPSK	3	2	22.68	22.70	22.42
1.4	QPSK	3	3	22.71	22.75	22.34
1.4	QPSK	6	0	22.67	22.79	22.70
1.4	16QAM	1	0	22.46	22.75	22.58
1.4	16QAM	1	2	22.40	22.65	22.44
1.4	16QAM	1	5	22.44	22.46	22.60
1.4	16QAM	3	0	22.42	22.66	22.52
1.4	16QAM	3	2	22.65	22.42	22.52
1.4	16QAM	3	3	22.68	22.58	22.31
1.4	16QAM	6	0	22.50	22.55	22.31

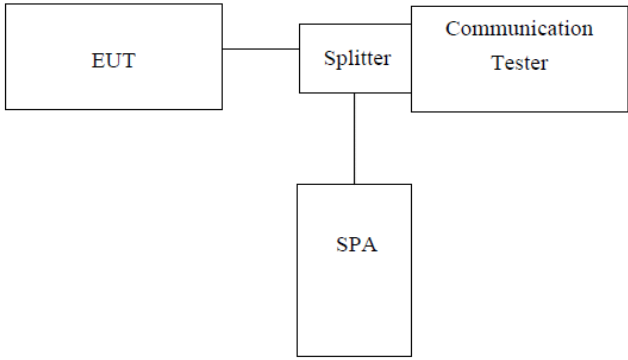
4.4 Peak-to-Average Ratio

Test Requirement:	Part 22.913(d), FCC part24.232(d) and FCC part27.50(d)(5)
Test Method:	ANSI C63.26:2015
Limit:	13db
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7 2. The EUT was connected to spectrum and system simulator via a power divider 3. Using the CCDF measurement of spectrum analyzer; 4. Set $RBW \geq OBW$ or specified reference bandwidth; 5. Set the number of counts to a value that stabilizes the measured CCDF curve; 6. Set the measurement interval as 1ms 7. Record the maximum PAPR level associated with a probability of 0.1%.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement data

Please refer to the Appendix of 2G&3G&4G data.

4.5 Occupy Bandwidth

Test Requirement:	FCC part22.913(a), FCC part27.53(a) and FCC part27.53(h), FCC part 90.209
Test Method:	ANSI C63.26:2015
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer, set center frequency to channel center frequency. 2. RBW was set to about 1%-5% of emission OBW, $VBW \geq 3 \times RBW$. 3. Set spectrum analyzer detection mode to peak, and the trace mode to max hold. 4. Use the 99% OBW function, The 99% power OBW can be found on the plot, determine the "-26dB amplitude" as equal to reference value -26dB.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

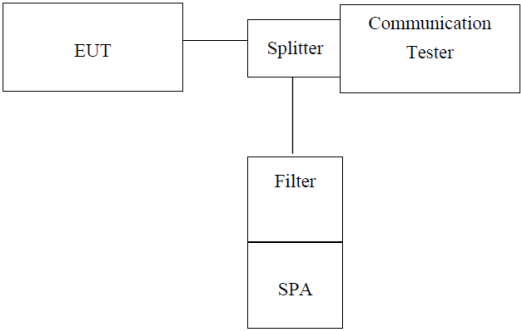
Measurement Data

Please refer to the Appendix of 2G&3G&4G data.

4.6 MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E & 27C, there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

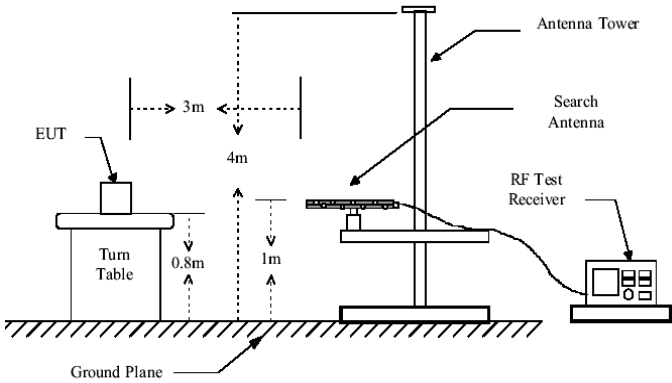
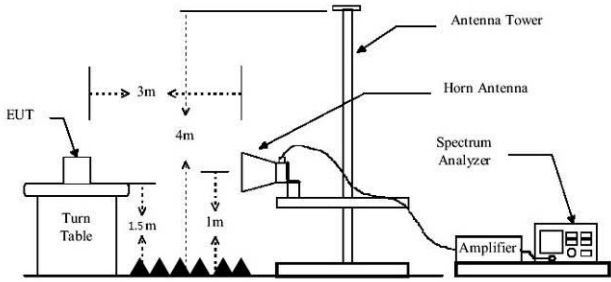
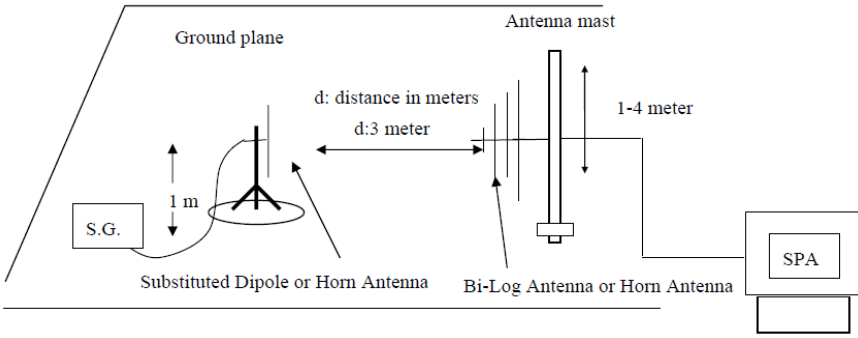
4.7 Out of band emission at antenna terminals

Test Requirement:	Part 2.1051, Part 22.917, Part 24.238, Part 27.53(c)(f), Part 27.53(g), Part 27.53(h), Part 27.53(m), Part 90.691
Test Method:	ANSI C63.26:2015
Limit:	$\leq -13\text{dBm}$ $\leq -25\text{dBm}$ (LTE Band 7, 41) For LTE Band 26(814-824MHz): (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. 3 For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic. 4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

Please refer to the Appendix of 2G&3G&4G data.

4.8 ERP, EIRP Measurement

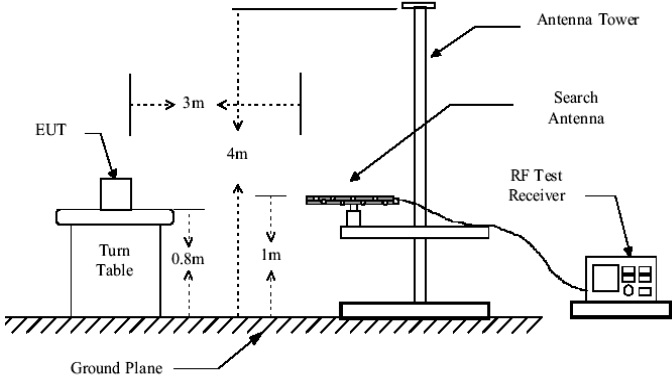
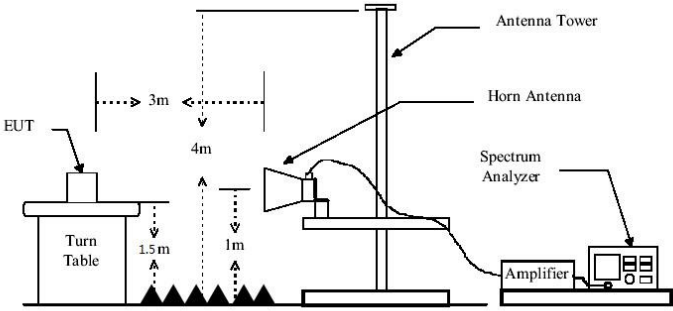
Test Requirement:	Part 2.1046, Part 22.913(a), Part 27.50(b), Part 27.50(c), Part 27.50(d), Part 27.50(h), Part 27.53, Part 90.635
Test Method:	ANSI C63.26:2015
Limit:	ERP ≤ 7W(38.45dBm) (GSM850, WCDMA Band V, LTE Band 5, 26(824-849MHz)) EIRP ≤ 2W(33.00dBm) (GSM 1900, WCDMA Band II, LTE Band 2, 25) ERP ≤ 3W(34.77dBm) (LTE Band 17) ERP ≤ 3W(34.77dBm) (LTE Band 12) EIRP ≤ 1W(30.00dBm) (WCDMA Band IV, LTE Band 4, 66) EIRP ≤ 2W(33.00dBm) (LTE Band 7, 13, 41) ERP ≤ 100W(50.00dBm) (LTE Band 26(814-824MHz))
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

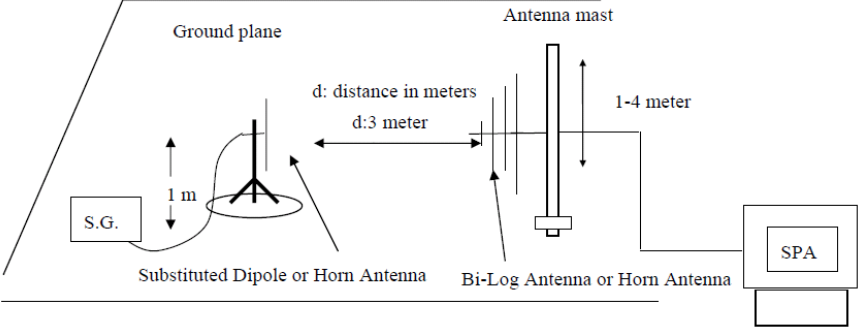
Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows: $\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$ 4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

Please refer to the Appendix of 2G&3G&4G data.

4.9 Field strength of spurious radiation measurement

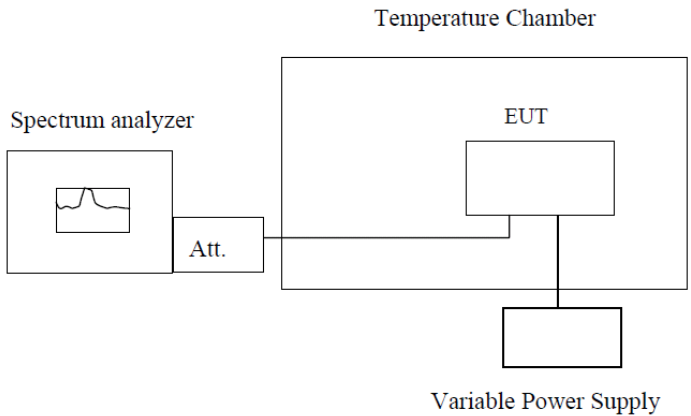
Test Requirement:	Part 2.1053 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691
Test Method:	ANSI C63.26:2015
Limit:	$\leq -13\text{dBm}$ $\leq -25\text{dBm}$ (LTE Band 7, 41) For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz. The limit of emissions is equal to -40 dBm.
Test setup:	Below 1GHz  Above 1GHz  Substituted method:

	
Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$ 5. Compliance with the provisions of part 27 <u>paragraphs (c)(3) and (c)(4)</u> of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

Please refer to the Appendix of 2G&3G&4G data.

4.10 Frequency stability

Test Requirement:	FCC Part2.1055(a)(1)(b), FCC Part2.1055(d)(1)(2), Part 2.1055(a)(1)(b), Part 22.355, Part 24.235 , Part 27.54, Part 90.213
Test Method:	ANSI C63.26:2015
Limit:	2.5ppm(Part 22) Within the authorized bands of operation(Part 24, Part 27)
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	Frequency stability V.S. Temperature measurement: 1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to –20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached. Frequency stability V.S. Voltage measurement: 1. Set chamber temperature to 20°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

Please refer to the Appendix of 2G&3G&4G data.

5 Photos of Test Setup & EUT

Please refer to the Appendix of Test photos_RF and the Appendix of EUT photos.

-----END OF REPORT-----