



No.:
FCC2025-0002-RF3

TEST REPORT

FCC ID : 2BNS6-TM2256-500010

NAME OF SAMPLE : 4G IN-VEHICLE GATEWAY

APPLICANT : Zhengzhou Tiamaes Technology Co., Ltd

CLASSIFICATION OF TEST : N/A

CVC Testing Technology Co., Ltd.

Applicant		Name: Zhengzhou Tiamaes Technology Co., Ltd	
		Address: Rooms 106-606 and 108-608, Building 10, No. 316 Lianhua Street, High tech Zone, Zhengzhou City	
Manufacturer		Name: Zhengzhou Tiamaes Technology Co., Ltd	
		Address: Rooms 106-606 and 108-608, Building 10, No. 316 Lianhua Street, High tech Zone, Zhengzhou City	
Factory		Name: Zhengzhou Tiamaes Technology Co., Ltd	
		Address: Rooms 106-606 and 108-608, Building 10, No. 316 Lianhua Street, High tech Zone, Zhengzhou City	
Equipment Under Test		Name: 4G IN-VEHICLE GATEWAY Model/Type: TM2256 Brand:  天迈科技 Serial NO.: N/A Sample NO.: 1-1	
Date of Receipt.	2025.01.15	Date of Testing	2025.07.29
Test Specification		Test Result	
47 CFR Part 2, 22, 24, 27 ANSI/TIA-603-E ANSI C63.26-2015		PASS	
Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. Seal of CVC Issue Date: 2025.07.29		
Approved by:  Chen HuaWen Name Signature	Reviewed by:  Xuzhenfei Name Signature	Tested by:  LuWeiJi Name Signature	
Other Aspects: NONE.			
Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

NOTE:1.This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.
 2.This report determines that uncertainty is not taken into account.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCC2025-0002-RF3	Original release	2025.07.29

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications

1.1 GSM850 / 1900

FCC STANDARD SECTION	TEST TYPE	LIMIT	REPORT SECTION	RESULT
§2.1046	Conducted Power Output	---	See section 3.2	Report Only
§22.913(a)(5)	Effective Radiated Power (GSM850)	ERP < 7 Watt	See section 3.2	PASS
§24.232(c)	Equivalent Isotropic Radiated Power (GSM1900)	EIRP < 2Watt		
§2.1049	Occupied Bandwidth	---	/	Report Only
§24.232(d)	Peak-to-Average Power Ratio	<13 dB	/	PASS
§2.1055 §22.355	Frequency Stability	< 2.5 ppm	/	PASS
§2.1055 §24.235		Within authorized bands of operation/frequency block.		
§2.1051 §22.917 §24.238(a)	Band Edge Compliance	< 43+10log10(P[Watts])	/	PASS
§2.1051 §22.917 §24.238(a)	Conducted Spurious Emission	< 43+10log10(P[Watts])	/	PASS
§2.1053 §22.917 §24.238(a)	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS

1.2 WCDMA Band 2 / Band 4 / Band 5

FCC STANDARD SECTION	TEST TYPE	LIMIT	REPORT SECTION	RESULT
§2.1046	Conducted Power Output	---	See section 3.2	Report Only
§22.913(a)(5)	Effective Radiated Power (WCDMA B5)	ERP < 7 Watt	See section 3.2	PASS
§24.232(c)	Equivalent Isotropic Radiated Power (WCDMA B2)	EIRP < 2Watt		
§27.50(d)(4)	Equivalent Isotropic Radiated Power (WCDMA B4)	EIRP < 1Watt		
§2.1049	Occupied Bandwidth	---	/	Report Only
§24.232(d)	Peak-to-Average Power Ratio	<13 dB	/	PASS
§2.1055 §22.355	Frequency Stability	< 2.5 ppm	/	PASS
§2.1055 §24.235 §27.54		Within authorized bands of operation/frequency block.		
§2.1051 §22.917 §24.238(a) §27.53(h)	Band Edge Compliance	< 43+10log10(P[Watts])	/	PASS
§2.1051 §22.917 §24.238(a) §27.53(h)	Conducted Spurious Emission	< 43+10log10(P[Watts])	/	PASS
§2.1053 §22.917 §24.238(a) §27.53(h)	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS

1.3 LTE Band 2

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	See section 3.2	Report Only
§24.232(c)	Equivalent Isotropic Radiated Power	EIRP < 2Watt	See section 3.2	PASS
§2.1049	Occupied Bandwidth	---	/	Report Only
---	Peak-to-Average Power Ratio	<13 dB	/	PASS
§2.1055 24.235	Frequency Stability	Within authorized bands of operation/frequency block.	/	PASS
§2.1051 §24.238(a)	Band Edge Compliance	< 43+10log10(P[Watts])		PASS
§2.1051 §24.238(a)	Conducted Spurious Emission	< 43+10log10(P[Watts])	/	PASS
§2.1051 §24.238(a)	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS

1.4 LTE Band 4

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	See section 3.2	Report Only
§27.50(d)(4)	Equivalent Isotropic Radiated Power	EIRP < 1Watt	See section 3.2	PASS
§2.1049	Occupied Bandwidth	---	/	Report Only
---	Peak-to-Average Power Ratio	<13 dB	/	PASS
§2.1055 §27.54	Frequency Stability	Within authorized bands of operation/frequency block.	/	PASS
§2.1051 §27.53(h)	Band Edge Compliance	< 43+10log10(P[Watts])	/	PASS
§2.1051 §27.53(h)	Conducted Spurious Emission	< 43+10log10(P[Watts])	/	PASS
§2.1051 §27.53(h)	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS

1.5 LTE Band 5

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	See section 3.2	Report Only
§22.913(a)(5)	Equivalent Radiated Power	ERP < 7Watt	See section 3.2	PASS
§2.1049	Occupied Bandwidth	---	/	Report Only
---	Peak-to-Average Power Ratio	<13 dB	/	PASS
§2.1055 §22.355	Frequency Stability	< 2.5 ppm	/	PASS
§2.1051 §22.917	Band Edge Compliance	< 43+10log10(P[Watts])	/	PASS
§2.1051 §22.917	Conducted Spurious Emission	< 43+10log10(P[Watts])	/	PASS
§2.1051 §22.917	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS

1.6 LTE Band 7

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	See section 3.2	Report Only
§27.50(h)(2)	Equivalent Isotropic Radiated Power	EIRP < 2Watt	See section 3.2	PASS
§2.1049	Occupied Bandwidth	>1MHz	/	Report Only
---	Peak-to-Average Power Ratio	<13 dB	/	PASS
§2.1055 §27.54	Frequency Stability	Within authorized bands of operation/frequency block.	/	PASS
§2.1051 §27.53(m4)	Band Edge Compliance	For mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least: (i) 40 + 10 log ₁₀ p from the channel edges to 5 MHz away (ii) 43 + 10 log ₁₀ p between 5 MHz and X MHz from the channel edges, and (iii) 55 + 10 log ₁₀ p at X MHz and beyond from the channel edges In addition, the attenuation shall not be less than 43 + 10 log(p) on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log ₁₀ p at or below 2490.5 MHz	/	PASS
§2.1051 §27.53(m4)	Conducted Spurious Emission		/	PASS
§2.1051 §27.53(m4)	Radiates Spurious Emission		See section 3.1	PASS

1.7 LTE Band 12

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	See section 3.2	Report Only
§27.50(c)(10)	Effective Radiated Power	ERP < 3Watt	See section 3.2	PASS
§2.1049	Occupied Bandwidth	---	/	Report Only
---	Peak-to-Average Power Ratio	<13 dB	/	PASS
§2.1055 §27.54	Frequency Stability	Within authorized bands of operation/frequency block.	/	PASS
§2.1051 §27.53(g)	Band Edge Compliance	< 43+10log10(P[Watts])	/	PASS
§2.1051 §27.53(g)	Conducted Spurious Emission	< 43+10log10(P[Watts])	/	PASS
§2.1051 §27.53(g)	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS

1.8 LTE Band 17

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	See section 3.2	Report Only
§27.50(c)(10)	Effective Radiated Power	ERP < 3Watt	See section 3.2	PASS
§2.1049	Occupied Bandwidth	---	/	Report Only
---	Peak-to-Average Power Ratio	<13 dB	/	PASS
§2.1055 §27.54	Frequency Stability	Within authorized bands of operation/frequency block.	/	PASS
§2.1051 §27.53(g)	Band Edge Compliance	< 43+10log10(P[Watts])	/	PASS
§2.1051 §27.53(g)	Conducted Spurious Emission	< 43+10log10(P[Watts])	/	PASS
§2.1051 §27.53(g)	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS

1.9 LTE Band 38

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	See section 3.2	Report Only
§27.50(h)(2)	Equivalent Isotropic Radiated Power	EIRP < 2Watt	See section 3.2	PASS
§2.1049	Occupied Bandwidth	>1MHz	/	Report Only
---	Peak-to-Average Power Ratio	<13 dB	/	PASS
§2.1055 §27.54	Frequency Stability	Within authorized bands of operation/frequency block.	/	PASS
§2.1051 §27.53(m4)	Band Edge Compliance	For mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least: (i) 40 + 10 log ₁₀ p from the channel edges to 5 MHz away (ii) 43 + 10 log ₁₀ p between 5 MHz and X MHz from the channel edges, and (iii) 55 + 10 log ₁₀ p at X MHz and beyond from the channel edges In addition, the attenuation shall not be less than 43 + 10 log(p) on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log ₁₀ p at or below 2490.5 MHz	/	PASS
§2.1051 §27.53(m4)	Conducted Spurious Emission		/	PASS
§2.1051 §27.53(m4)	Radiates Spurious Emission		See section 3.1	PASS

1.10 LTE Band 66

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	See section 3.2	Report Only
§27.50(d)(4)	Equivalent Isotropic Radiated Power	EIRP < 1Watt	See section 3.2	PASS
§2.1049	Occupied Bandwidth	---	/	Report Only
---	Peak-to-Average Power Ratio	<13 dB	/	PASS
§2.1055 §27.54	Frequency Stability	Within authorized bands of operation/frequency block.	/	PASS
§2.1051 §27.53(h)	Band Edge Compliance	< 43+10log10(P[Watts])	/	PASS
§2.1051 §27.53(h)	Conducted Spurious Emission	< 43+10log10(P[Watts])	/	PASS
§2.1051 §27.53(h)	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS

Note: 1.This mobile terminal has a LTE module (model: NL668-LA). The LTE module have been certified. This report only tests stray Radiation emissions and Conducted Power Output and ERP/EIRP, and other testing items and data will refer to the module report(FCC ID: ZMONL668LA05).

2. EUT carries two types of antennas(Rod antenna and Patch antenna), both of which have been tested in this certification and corresponding data is reflected in this report.

1.11 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Radiated Emission Test - 5M Chamber				
Equipment listTest Equipment	Type/Mode	Equipment No.	ManuFacterer	Cal. Due
5m Semi-Anechoic Chamber	SAC-5	SAC-5-2.0	COMTEST	2027/02/01
Spectrum Analyzer	N9010B	DZ-000174	KEYSIGHT	2026/01/01
EMI Test Receiver	N9038A-508	EM-000397	Agilent	2026/01/05
Broadband Antenna	VULB 9163	EM-000342	SCHWARZBECK	2026/06/02
Waveguide Horn Antenna	HF906	WKNA-0024-8	R&S	2026/01/12
Preamplifier	BBV 9721	DZ-000209-1	SCHWARZBECK	2026/06/02
Waveguide Horn Antenna	BBHA9170	DZ-000209-2	SCHWARZBECK	2025/08/03
Comprehensive tester	CMW500	DZ-000240-2	R&S	2025/12/02
GSM/WCDMA/LTE Test System				
Equipment listTest Equipment	Type/Mode	Equipment No.	ManuFacterer	Cal. Due
Communication Shielded Room 1	4m*3m*3m	VGDS-0699	CRT	2027/03/28
Spectrum Analyzer	FSV30	DZ-000235	R&S	2025/12/02
Comprehensive Test Instrument	CMW500	DZ-000220	R&S	2026/06/29
Analog Signal Generator	SMA100B	DZ-000239-2	R&S	2025/09/01
Vector Signal Generator	SMBV100B	DZ-000239-1	R&S	2026/03/27
Programmable DC Power Supply	E3642A	DZ-000242-2	KEYSIGHT	2025/08/02

1. The calibration interval of the above Shielding room, Anechoic chamber and Control room is 36 months.
2. The calibration interval of the above test instruments is 12 months.

Radiated Emission test software		
Software name	Software version	Software Developer
JS36-RSE Radiation stray test system	2.5.1.2	Shenzhen JS tonskend co.,ltd
GSM/WCDMA/LTE test software		
Software name	Software version	Software Developer
JS1120 RF Auto Test System	3.1.46	Shenzhen JS tonskend co.,ltd

2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT	4G IN-VEHICLE GATEWAY		
BRAND			
MODEL	TM2256		
ADDITIONAL MODEL	N/A		
FCC ID	2BNS6-TM2256-500010		
POWER SUPPLY	DC 10-36V		
MODULATION TYPE	GSM		GMSK (GSM/GPRS),8PSK (EDGE)
	WCDMA		QPSK, 16QAM
	LTE	UL	QPSK, 16QAM
		DL	QPSK, 16QAM, 64QAM
GSM BAND	850 / 1900		
WCDMA BAND	B2 / B4 / B5		
LTE BAND	B2 / B4 / B5 / B7 /B12/B17 /B38 /B66		
Operate Temp.Range	-30℃~+70℃		
OPERATING FREQUENCY	See section 2.3		
MAXIMUM OUTPUT POWER	See section 2.3		
ANTENNA TYPE AND GAIN (Remark 4/5)	See section 2.2		
HARDWARE VERSION:	HW003		
SOFTWARE VERSION:	DSW03.00		
I/O PORTS	Refer to user's manual		
Remark:			
1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.			
3. Please refer to the EUT photo document (Reference No.: FCC2025-0002-EUT) for detailed product photo.			
4. Please refer to the antenna report.			
5. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.			

2.2 ANTENNA TYPE AND GAIN

Mode	Antenna Delivery	UL Function
GSM	1TX / 2RX	SISO
WCDMA	1TX / 2RX	SISO
LTE	1TX / 2RX	SISO

Rod Antenna					
Mode	Band	Antenna Type		Antenna Gain(dBi)	
		Main	Diversity	Main	Diversity
GSM	GSM850	External Antenna	External Antenna	1.4	1.4
	GSM1900	External Antenna	External Antenna	1.6	1.6
WCDMA	WCDMA B2	External Antenna	External Antenna	1.6	1.6
	WCDMA B4	External Antenna	External Antenna	-0.3	-0.3
	WCDMA B5	External Antenna	External Antenna	1.4	1.4
LTE	LTE B2	External Antenna	External Antenna	1.6	1.6
	LTE B4	External Antenna	External Antenna	-0.3	-0.3
	LTE B5	External Antenna	External Antenna	1.4	1.4
	LTE B7	External Antenna	External Antenna	2.9	2.9
	LTE B12	External Antenna	External Antenna	0.5	0.5
	LTE B17	External Antenna	External Antenna	0.2	0.2
	LTE B38	External Antenna	External Antenna	2.8	2.8
	LTE B66	External Antenna	External Antenna	0.7	0.7

Patch Antenna					
Mode	Band	Antenna Type		Antenna Gain(dBi)	
		Main	Diversity	Main	Diversity
GSM	GSM850	External Antenna	External Antenna	-0.44	-0.44
	GSM1900	External Antenna	External Antenna	-0.06	-0.06
WCDMA	WCDMA B2	External Antenna	External Antenna	-0.06	-0.06
	WCDMA B4	External Antenna	External Antenna	-1.44	-1.44
	WCDMA B5	External Antenna	External Antenna	-0.44	-0.44
LTE	LTE B2	External Antenna	External Antenna	-0.06	-0.06
	LTE B4	External Antenna	External Antenna	-1.44	-1.44
	LTE B5	External Antenna	External Antenna	-0.44	-0.44
	LTE B7	External Antenna	External Antenna	-2.18	-2.18
	LTE B12	External Antenna	External Antenna	-0.94	-0.94
	LTE B17	External Antenna	External Antenna	-1.55	-1.55
	LTE B38	External Antenna	External Antenna	-2.22	-2.22
	LTE B66	External Antenna	External Antenna	-1.44	-1.44

2.3 OPERATING FREQUENCY AND MAX CONDUTED POWER

Mode	Band	TX(MHz)	RX(MHz)	Maximum Output Power (dBm)
GSM	GSM850	824 ~ 849	869 ~ 894	31.73
	GSM1900	1850 ~ 1910	1930 ~ 1990	28.35
WCDMA	WCDMA B2	1850 ~ 1910	1930 ~ 1990	23.74
	WCDMA B4	1710 ~ 1755	2110 ~ 2155	23.61
	WCDMA B5	824 ~ 849	869 ~ 894	23.73
LTE	LTE B2	1850 ~ 1910	1930 ~ 1990	23.06
	LTE B4	1710 ~ 1755	2110 ~ 2155	22.44
	LTE B5	824 ~ 849	869 ~ 894	22.91
	LTE B7	2500 ~ 2570	2620 ~ 2690	22.82
	LTE B12	699 ~ 716	729 ~ 746	22.96
	LTE B17	704 ~ 716	734 ~ 746	23.34
	LTE B38	2570 ~ 2620	2570 ~ 2620	21.98
	LTE B66	1710 ~ 1780	2110 ~ 2180	22.99

2.4 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.

EUT CONFIGURE MODE	DESCRIPTION
-	EUT with GSM or WCDMA or LTE link

Test modes are chosen as the worst case configuration below for GSM

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
RF power output	128 to 251	128, 189, 251	GSM850
	512 to 810	512, 611, 810	GSM1900
Effective Radiated Power	128 to 251	128, 189, 251	GSM850
Equivalent Isotropic Radiated Power	512 to 810	512, 611, 810	GSM1900
Radiates Spurious Emission	128 to 251	128, 189, 251	GSM850
	512 to 810	512, 611, 810	GSM1900

Test modes are chosen as the worst case configuration below for WCDMA

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
RF power output	9262 to 9538	9262, 9400, 9538	WCDMA Band 2
	1312 to 1513	1312, 1413, 1513	WCDMA Band 4
	4132 to 4233	4132, 4182, 4233	WCDMA Band 5
Equivalent Isotropic Radiated Power	9262 to 9538	9262, 9400, 9538	WCDMA Band 2
	1312 to 1513	1312, 1413, 1513	WCDMA Band 4
Effective Radiated Power	4132 to 4233	4132, 4182, 4233	WCDMA Band 5
Radiates Spurious Emission	9262 to 9538	9262, 9400, 9538	WCDMA Band 2
	1312 to 1513	1312, 1413, 1513	WCDMA Band 4
	4132 to 4233	4132, 4182, 4233	WCDMA Band 5

Test modes are chosen as the worst case configuration below for LTE

Test items	LTE	Bandwidth (MHz)						Modulation			RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64 QAM	1%	50%	100%	L	M	H
RF power output	2	O	O	O	O	O	O	O	O	-	O	O	O	O	O	O
	4	O	O	O	O	O	O	O	O	-	O	O	O	O	O	O
	5	O	O	O	O	-	-	O	O	-	O	O	O	O	O	O

	7	-	-	O	O	O	O	O	O	-	O	O	O	O	O	O
	12	O	O	O	O	-	-	O	O	-	O	O	O	O	O	O
	17	-	-	O	O	-	-	O	O	-	O	O	O	O	O	O
	38	-	-	O	O	O	O	O	O	-	O	O	O	O	O	O
	66	O	O	O	O	O	O	O	O	-	O	O	O	O	O	O
ERP/ EIRP	2	O	O	O	O	O	O	O	O	-	O	O	O	O	O	O
	4	O	O	O	O	O	O	O	O	-	O	O	O	O	O	O
	5	O	O	O	O	-	-	O	O	-	O	O	O	O	O	O
	7	-	-	O	O	O	O	O	O	-	O	O	O	O	O	O
	12	O	O	O	O	-	-	O	O	-	O	O	O	O	O	O
	17	-	-	O	O	-	-	O	O	-	O	O	O	O	O	O
	38	-	-	O	O	O	O	O	O	-	O	O	O	O	O	O
	66	O	O	O	O	O	O	O	O	-	O	O	O	O	O	O
Radiates Spurious Emission (Note3)	2	O	O	O	O	O	O	O	-	-	O	-	-	O	O	O
	4	O	O	O	O	O	O	O	-	-	O	-	-	O	O	O
	5	O	O	O	O	-	-	O	-	-	O	-	-	O	O	O
	7	-	-	O	O	O	O	O	-	-	O	-	-	O	O	O
	12	O	O	O	O	-	-	O	-	-	O	-	-	O	O	O
	17	-	-	O	O	-	-	O	-	-	O	-	-	O	O	O
	38	-	-	O	O	O	O	O	-	-	O	-	-	O	O	O
	66	O	O	O	O	O	O	O	-	-	O	-	-	O	O	O
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing. 3. Only the worst case was shown in test report															

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RF power output	22deg. C, 65%RH	DC 24V	Chen Jiaxin
Effective Radiated Power	22deg. C, 65%RH	DC 24V	Chen Jiaxin
Equivalent Isotropic Radiated Power	22deg. C, 65%RH	DC 24V	Chen Jiaxin
Frequency Stability	22deg. C, 65%RH	DC 24V	Chen Jiaxin
Occupied Bandwidth	22deg. C, 65%RH	DC 24V	Chen Jiaxin
Band Edge Compliance	22deg. C, 65%RH	DC 24V	Chen Jiaxin
Conducted Spurious Emission	22deg. C, 65%RH	DC 24V	Chen Jiaxin
Radiates Spurious Emission	23deg. C, 63%RH	DC 24V	Chen Jiaxin
Peak-to-Average Power Ratio	22deg. C, 65%RH	DC 24V	Chen Jiaxin

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR PART 2

FCC 47 CFR PART 22

FCC 47 CFR PART 24

FCC 47 CFR PART 27

KDB 971168 D01 POWER MEAS LICENSE DIGITAL SYSTEMS V03R01

ANSI/TIA-603-E

ANSI C63.26-2015

ANSI C63.4-2014

Note: All test items have been performed and recorded as per the above standards

2.6 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support Equipment							
NO	Description	Brand	Model No.	Serial Number	Supplied by		
1	N/A	N/A	N/A	N/A	N/A		
Support Cable							
NO	Description	Quantity (Number)	Length (cm)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Number)	Supplied by
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2.7 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

No.	Item	Measurement Uncertainty
1	Occupied Channel Bandwidth	$\pm 1.86 \%$
2	RF output power, conducted	$\pm 0.651 \text{ dB}$
3	Power Spectral Density, conducted	$\pm 0.8 \text{ dB}$
4	Conducted emission test	$\pm 1.427 \text{ dB}$
5	Radiated emission	$\pm 2.1618 \text{ dB}$
6	Temperature	$\pm 0.73 \text{ }^{\circ}\text{C}$
7	Humidity	$\pm 3.90 \%$
8	Supply voltages	$\pm 0.37 \%$
9	Time	$\pm 0.27 \%$
Remark: 95% Confidence Levels, $k=2$.		

2.8 TEST LOCATION

The tests and measurements refer to this report were performed by RF testing Lab. of CVC Testing Technology Co., Ltd.

Add.: No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, Guangdong, 510663, People's Republic of China

Telephone : +86-20-32293888

Fax : +86-20-32293889

FCC(Test firm designation number : CN1282)

IC(Test firm CAB identifier number : CN0103)

3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION MEASUREMENT

3.1.1 TEST PROCEDURES

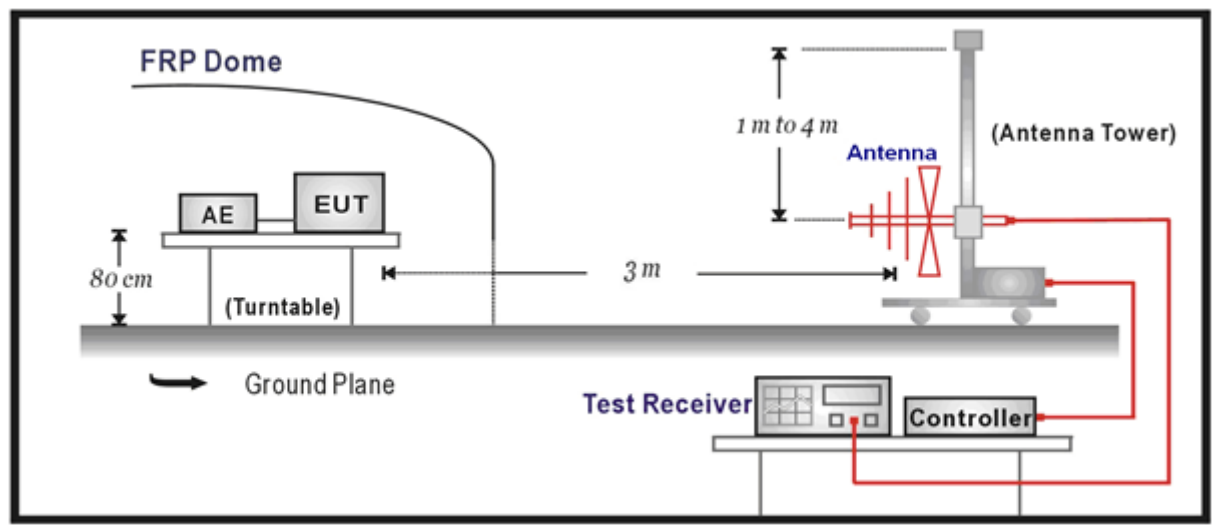
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G
- c. $EIRP(dBm) = S.G.POWER - TX \text{ cable loss} + \text{Antenna gain}.$
- d. $E.R.P(dBm) = E.I.P.R - 2.15dBi.$

NOTE:

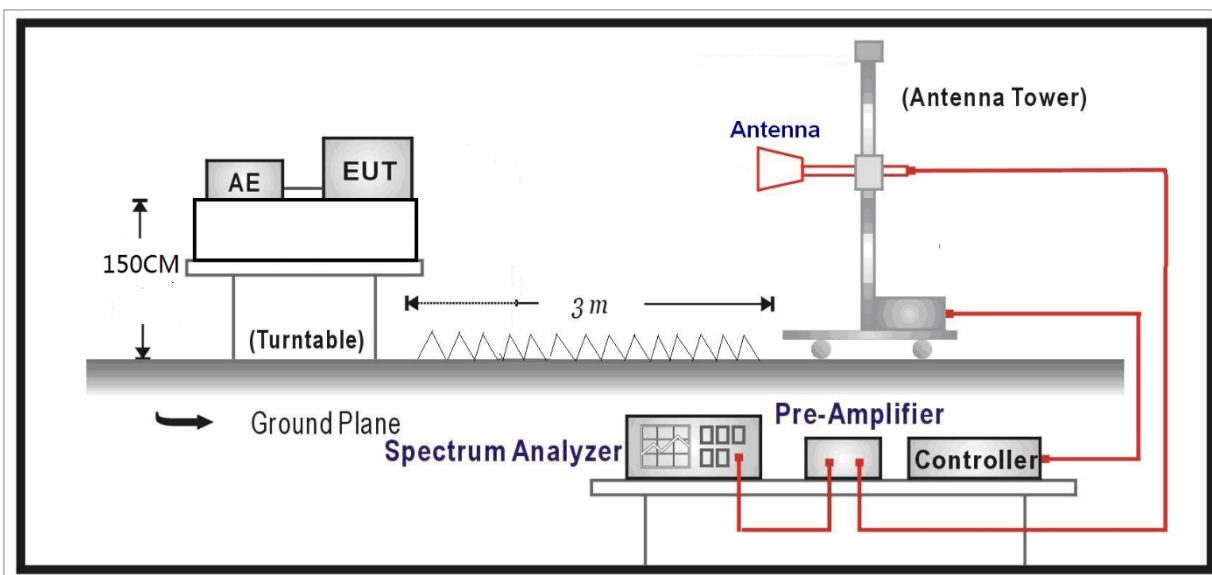
- 1.The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
- 2.Only the worst case was shown in test report

3.1.2 TEST SETUP

Below 1GHz Test Setup:



Above 1GHz Test Setup:



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.3 TEST RESULTS (ROD ANTENNA)**THE WORST CASE DATA**

Test Mode		GSM850		Channel		CH 189	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	66.0626	-91.61	-65.55	-13.00	52.55	26.06	202
2	261.3571	-89.41	-66.19	-13.00	53.19	23.22	202
3	1648.4497	-53.36	-40.67	-13.00	27.67	12.69	48
4	2472.8346	-59.40	-40.01	-13.00	27.01	19.39	233
5	7301.6202	-70.85	-52.72	-13.00	39.72	18.13	233
6	17352.9253	-78.96	-45.76	-13.00	32.76	33.20	296
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	44.5535	-91.55	-65.86	-13.00	52.86	25.69	204
2	268.0988	-91.18	-67.82	-13.00	54.82	23.36	204
3	1648.4497	-57.07	-43.50	-13.00	30.50	13.57	264
4	3122.1122	-66.64	-43.31	-13.00	30.31	23.33	221
5	6101.6502	-66.12	-37.97	-13.00	24.97	28.15	96
6	17137.6238	-78.91	-47.55	-13.00	34.55	31.36	170
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		GSM1900		Channel		CH 661	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	66.1696	-92.68	-66.66	-13.00	53.66	26.02	200
2	324.8145	-91.83	-66.94	-13.00	53.94	24.89	320
3	1271.4143	-64.62	-51.67	-13.00	38.67	12.95	110
4	3126.4026	-67.38	-42.31	-13.00	29.31	25.07	70
5	7852.7453	-70.98	-53.17	-13.00	40.17	17.81	50
6	17440.6841	-79.26	-46.38	-13.00	33.38	32.88	350
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	57.8228	-92.12	-65.02	-13.00	52.02	27.10	103
2	273.3423	-88.74	-65.20	-13.00	52.20	23.54	196
3	1398.7397	-63.78	-50.26	-13.00	37.26	13.52	324
4	3700.6601	-59.99	-37.22	-13.00	24.22	22.77	217
5	9903.9604	-70.92	-51.86	-13.00	38.86	19.06	173
6	17713.3213	-79.15	-47.17	-13.00	34.17	31.98	143
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		WCDMA B2		Channel		CH 9400	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	59.1069	-93.75	-67.00	-13.00	54.00	26.75	3
2	266.2796	-89.05	-65.86	-13.00	52.86	23.19	244
3	1297.2595	-64.22	-51.00	-13.00	38.00	13.22	360
4	3130.6931	-66.89	-41.40	-13.00	28.40	25.49	357
5	8252.9253	-70.64	-52.73	-13.00	39.73	17.91	282
6	17348.2448	-77.68	-44.64	-13.00	31.64	33.04	220
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	48.7269	-93.61	-65.79	-13.00	52.79	27.82	235
2	311.7592	-91.16	-66.45	-13.00	53.45	24.71	23
3	1369.8540	-64.54	-50.68	-13.00	37.68	13.86	174
4	3124.4224	-66.32	-42.76	-13.00	29.76	23.56	98
5	5923.1023	-66.21	-38.72	-13.00	25.72	27.49	348
6	16391.0891	-78.67	-48.14	-13.00	35.14	30.53	325
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		WCDMA B4		Channel		CH 1413	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	64.3504	-92.89	-66.69	-13.00	53.69	26.20	142
2	263.4974	-88.87	-65.61	-13.00	52.61	23.26	234
3	1240.6281	-64.30	-51.81	-13.00	38.81	12.49	326
4	3426.7327	-59.50	-37.46	-13.00	24.46	22.04	220
5	6176.2376	-65.17	-36.88	-13.00	23.88	28.29	156
6	17439.5140	-78.52	-45.62	-13.00	32.62	32.90	73
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	50.6531	-93.72	-66.39	-13.00	53.39	27.33	244
2	259.2169	-90.67	-67.75	-13.00	54.75	22.92	214
3	1377.8356	-63.12	-49.26	-13.00	36.26	13.86	3
4	3423.1023	-54.79	-33.47	-13.00	20.47	21.32	203
5	6174.9175	-65.72	-37.96	-13.00	24.96	27.76	77
6	13182.6283	-73.78	-49.11	-13.00	36.11	24.67	345
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		WCDMA B5		Channel		CH 4182	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	58.1438	-93.76	-66.78	-13.00	53.78	26.98	338
2	256.8627	-88.56	-65.58	-13.00	52.58	22.98	248
3	1299.9200	-63.68	-50.44	-13.00	37.44	13.24	33
4	3137.6238	-66.23	-41.14	-13.00	28.14	25.09	48
5	6703.6904	-70.31	-52.67	-13.00	39.67	17.64	65
6	17355.2655	-78.91	-45.86	-13.00	32.86	33.05	159
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	47.7638	-94.00	-66.31	-13.00	53.31	27.69	116
2	254.1874	-90.12	-67.34	-13.00	54.34	22.78	176
3	1650.3501	-58.70	-45.09	-13.00	32.09	13.61	266
4	3963.3663	-66.83	-43.18	-13.00	30.18	23.65	360
5	7072.2772	-69.82	-52.65	-13.00	39.65	17.17	263
6	16386.4086	-76.83	-46.66	-13.00	33.66	30.17	139
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B2-QPSK-20MHz		Channel		CH 18700	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	63.9224	-91.53	-65.39	-13.00	52.39	26.14	189
2	245.5196	-87.35	-65.19	-13.00	52.19	22.16	219
3	1282.8166	-64.47	-51.40	-13.00	38.40	13.07	219
4	3128.0528	-66.55	-41.27	-13.00	28.27	25.28	55
5	5553.4653	-64.10	-37.80	-13.00	24.80	26.30	236
6	17348.2448	-78.98	-45.94	-13.00	32.94	33.04	94
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	57.1807	-91.69	-64.45	-13.00	51.45	27.24	97
2	261.5712	-88.54	-65.46	-13.00	52.46	23.08	221
3	1388.8578	-64.11	-50.24	-13.00	37.24	13.87	360
4	3701.9802	-59.33	-36.58	-13.00	23.58	22.75	205
5	5553.1353	-64.37	-38.63	-13.00	25.63	25.74	205
6	17709.8110	-79.62	-47.52	-13.00	34.52	32.10	154
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B4-QPSK-1.4MHz		Channel		CH 20393	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	65.4205	-91.72	-65.49	-13.00	52.49	26.23	221
2	262.9623	-89.70	-66.43	-13.00	53.43	23.27	221
3	1304.8610	-64.57	-51.51	-13.00	38.51	13.06	66
4	3420.7921	-59.44	-37.44	-13.00	24.44	22.00	205
5	5131.0231	-62.79	-37.59	-13.00	24.59	25.20	144
6	17358.7759	-79.26	-46.44	-13.00	33.44	32.82	64
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	54.3984	-92.02	-65.04	-13.00	52.04	26.98	207
2	264.3534	-89.81	-66.61	-13.00	53.61	23.20	207
3	1121.6643	-63.47	-53.48	-13.00	40.48	9.99	116
4	3420.4620	-49.78	-28.47	-13.00	15.47	21.31	225
5	8551.3051	-67.27	-49.22	-13.00	36.22	18.05	204
6	17706.3006	-78.89	-47.03	-13.00	34.03	31.86	141
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B5-QPSK-5MHz		Channel		CH 20425	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	57.6088	-93.12	-66.08	-13.00	53.08	27.04	169
2	262.4272	-90.08	-66.81	-13.00	53.81	23.27	200
3	1649.2098	-52.88	-40.17	-13.00	27.17	12.71	45
4	2473.9748	-59.41	-40.03	-13.00	27.03	19.38	232
5	5971.9472	-66.49	-38.39	-13.00	25.39	28.10	34
6	17357.6058	-79.03	-46.13	-13.00	33.13	32.90	326
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	54.1844	-93.02	-66.09	-13.00	53.09	26.93	35
2	254.4014	-90.23	-67.47	-13.00	54.47	22.76	189
3	1648.8298	-53.52	-39.94	-13.00	26.94	13.58	313
4	2473.9748	-60.35	-42.84	-13.00	29.84	17.51	221
5	5956.7657	-65.72	-38.31	-13.00	25.31	27.41	114
6	13332.4032	-73.77	-48.92	-13.00	35.92	24.85	246
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B7-QPSK-20MHz		Channel		CH 21100	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	56.7527	-93.65	-65.93	-25.00	40.93	27.72	143
2	168.2578	-92.42	-66.87	-25.00	41.87	25.55	234
3	489.9320	-92.78	-62.81	-25.00	37.81	29.97	173
4	996.1996	-91.17	-52.46	-25.00	27.46	38.71	357
5	6150.4951	-60.26	-39.91	-25.00	14.91	20.35	255
6	17355.2655	-79.02	-44.14	-25.00	19.14	34.88	38
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	39.6310	-91.91	-64.68	-25.00	39.68	27.23	142
2	159.9110	-89.80	-63.49	-25.00	38.49	26.31	172
3	1077.6348	-91.38	-52.26	-25.00	27.26	39.12	172
4	6065.3465	-60.74	-40.26	-25.00	15.26	20.48	130
5	7500.5401	-68.25	-49.91	-25.00	24.91	18.34	230
6	16395.7696	-77.55	-43.77	-25.00	18.77	33.78	357
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B12-QPSK-5MHz		Channel		CH 23035	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	47.9778	-92.96	-66.60	-13.00	53.60	26.36	156
2	259.7520	-91.31	-68.17	-13.00	55.17	23.14	217
3	1398.3597	-59.27	-48.20	-13.00	35.20	11.07	360
4	3128.7129	-67.30	-41.94	-13.00	28.94	25.36	0
5	5970.9571	-66.66	-38.56	-13.00	25.56	28.10	357
6	10017.5068	-71.81	-52.22	-13.00	39.22	19.59	276
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	39.4169	-92.10	-65.39	-13.00	52.39	26.71	98
2	158.3058	-93.34	-68.45	-13.00	55.45	24.89	3
3	532.5223	-92.13	-63.74	-13.00	50.74	28.39	284
4	1398.7397	-58.42	-44.90	-13.00	31.90	13.52	222
5	3547.5248	-66.24	-43.13	-13.00	30.13	23.11	234
6	9980.7381	-71.33	-51.85	-13.00	38.85	19.48	32
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B17-QPSK-10MHz		Channel		CH 23780	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	58.2508	-94.03	-67.06	-13.00	54.06	26.97	172
2	140.5421	-93.38	-68.87	-13.00	55.87	24.51	264
3	487.5778	-91.31	-63.97	-13.00	50.97	27.34	326
4	1554.1908	-56.85	-44.13	-13.00	31.13	12.72	81
5	3133.6634	-66.74	-41.42	-13.00	28.42	25.32	247
6	6201.6502	-66.64	-38.54	-13.00	25.54	28.10	278
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	33.2103	-88.41	-65.30	-13.00	52.30	23.11	326
2	157.2357	-93.60	-69.13	-13.00	56.13	24.47	357
3	498.9209	-91.86	-63.66	-13.00	50.66	28.20	357
4	1554.5709	-55.37	-43.36	-13.00	30.36	12.01	114
5	3128.3828	-66.63	-42.67	-13.00	29.67	23.96	305
6	9566.6067	-70.75	-52.21	-13.00	39.21	18.54	266
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B38-QPSK-5MHz		Channel		CH 38000	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	56.1106	-93.10	-66.29	-25.00	41.29	26.81	204
2	265.2095	-91.64	-68.42	-25.00	43.42	23.22	234
3	613.4223	-91.63	-61.03	-25.00	36.03	30.60	326
4	1668.2136	-55.62	-42.08	-25.00	17.08	13.54	204
5	3132.0132	-66.75	-41.34	-25.00	16.34	25.41	34
6	9260.2010	-70.21	-52.34	-25.00	27.34	17.87	175
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	50.2250	-92.81	-65.30	-25.00	40.30	27.51	263
2	159.6970	-93.90	-68.95	-25.00	43.95	24.95	0
3	511.9762	-92.22	-63.86	-25.00	38.86	28.36	356
4	1668.5937	-53.63	-39.68	-25.00	14.68	13.95	199
5	5973.9274	-65.98	-38.10	-25.00	13.10	27.88	33
6	10117.4917	-72.44	-51.97	-25.00	26.97	20.47	172
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B66-QPSK-1.4MHz		Channel		CH 132665	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	39.7380	-93.06	-67.05	-13.00	54.05	26.01	112
2	138.6159	-93.64	-69.49	-13.00	56.49	24.15	112
3	626.2636	-92.46	-62.64	-13.00	49.64	29.82	234
4	1659.8520	-50.31	-37.34	-13.00	24.34	12.97	172
5	3136.3036	-66.85	-41.68	-13.00	28.68	25.17	154
6	8248.7399	-70.49	-52.50	-13.00	39.50	17.99	327
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	47.4427	-93.17	-65.58	-13.00	52.58	27.59	360
2	140.6491	-93.21	-69.11	-13.00	56.11	24.10	188
3	274.9475	-88.49	-64.97	-13.00	51.97	23.52	279
4	1659.4719	-51.55	-37.77	-13.00	24.77	13.78	188
5	3125.0825	-66.31	-42.68	-13.00	29.68	23.63	176
6	9480.1680	-71.42	-53.03	-13.00	40.03	18.39	276
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

3.1.3 TEST RESULTS (PATCH ANTENNA)**THE WORST CASE DATA**

Test Mode		GSM850		Channel		CH 189	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	63.4943	-91.53	-65.45	-13.00	52.45	26.08	3
2	263.3903	-90.16	-66.90	-13.00	53.90	23.26	253
3	1672.0144	-53.44	-39.64	-13.00	26.64	13.80	66
4	3129.3729	-66.93	-41.48	-13.00	28.48	25.45	83
5	6188.4488	-66.17	-37.83	-13.00	24.83	28.34	22
6	17439.5140	-78.87	-45.97	-13.00	32.97	32.90	278
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	48.4058	-94.15	-66.34	-13.00	53.34	27.81	305
2	260.0730	-91.06	-68.08	-13.00	55.08	22.98	243
3	1672.0144	-59.04	-45.03	-13.00	32.03	14.01	93
4	2508.1816	-61.32	-43.83	-13.00	30.83	17.49	213
5	6014.8515	-65.95	-38.16	-13.00	25.16	27.79	73
6	13177.9478	-73.78	-49.00	-13.00	36.00	24.78	316
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		GSM1900		Channel		CH 661	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	63.8154	-91.56	-65.44	-13.00	52.44	26.12	170
2	262.4272	-89.63	-66.36	-13.00	53.36	23.27	201
3	1668.5937	-55.13	-41.57	-13.00	28.57	13.56	45
4	2423.8048	-60.37	-41.08	-13.00	28.08	19.29	107
5	5790.0990	-61.08	-33.90	-13.00	20.90	27.18	125
6	17709.8110	-78.36	-45.44	-13.00	32.44	32.92	204
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	49.7970	-93.61	-65.92	-13.00	52.92	27.69	253
2	612.6733	-93.67	-63.48	-13.00	50.48	30.19	97
3	1668.5937	-55.33	-41.38	-13.00	28.38	13.95	128
4	3563.0363	-65.82	-42.72	-13.00	29.72	23.10	0
5	8445.9946	-70.60	-52.90	-13.00	39.90	17.70	278
6	16395.7696	-77.14	-47.29	-13.00	34.29	29.85	308
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		WCDMA B2		Channel		CH 9400	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	33.2103	-88.47	-65.36	-13.00	52.36	23.11	216
2	159.6970	-93.28	-68.33	-13.00	55.33	24.95	3
3	1393.0386	-64.18	-50.43	-13.00	37.43	13.75	95
4	3761.3861	-64.90	-40.94	-13.00	27.94	23.96	201
5	5961.0561	-65.74	-38.21	-13.00	25.21	27.53	74
6	13182.6283	-73.33	-48.66	-13.00	35.66	24.67	3
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	56.0036	-94.10	-67.32	-13.00	54.32	26.78	336
2	259.4309	-89.39	-66.26	-13.00	53.26	23.13	246
3	1224.6649	-62.39	-50.10	-13.00	37.10	12.29	63
4	3132.0132	-66.86	-41.45	-13.00	28.45	25.41	42
5	7457.2457	-70.04	-52.83	-13.00	39.83	17.21	68
6	17351.7552	-79.05	-45.77	-13.00	32.77	33.28	318
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		WCDMA B4		Channel		CH 1413	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	47.8708	-93.77	-66.04	-13.00	53.04	27.73	357
2	317.5378	-91.97	-67.07	-13.00	54.07	24.90	236
3	1377.0754	-64.27	-50.41	-13.00	37.41	13.86	23
4	3467.3267	-59.23	-37.36	-13.00	24.36	21.87	223
5	7768.4969	-70.97	-52.69	-13.00	39.69	18.28	263
6	17737.8938	-78.81	-47.00	-13.00	34.00	31.81	103
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	56.3246	-92.86	-65.98	-13.00	52.98	26.88	267
2	267.7778	-88.82	-65.69	-13.00	52.69	23.13	206
3	1290.7982	-64.40	-51.25	-13.00	38.25	13.15	206
4	3507.2607	-63.41	-41.64	-13.00	28.64	21.77	254
5	5979.8680	-66.37	-38.24	-13.00	25.24	28.13	191
6	17358.7759	-78.45	-45.63	-13.00	32.63	32.82	75
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		WCDMA B5		Channel		CH 4182	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	57.3947	-91.91	-64.71	-13.00	51.71	27.20	126
2	265.2095	-88.22	-64.99	-13.00	51.99	23.23	188
3	1345.9092	-64.06	-50.43	-13.00	37.43	13.63	342
4	3817.8218	-62.17	-38.75	-13.00	25.75	23.42	202
5	7635.1035	-69.84	-52.38	-13.00	39.38	17.46	190
6	12224.3024	-71.97	-49.78	-13.00	36.78	22.19	158
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	57.3947	-91.91	-64.71	-13.00	51.71	27.20	126
2	265.2095	-88.22	-64.99	-13.00	51.99	23.23	188
3	1345.9092	-64.06	-50.43	-13.00	37.43	13.63	342
4	3817.8218	-62.17	-38.75	-13.00	25.75	23.42	202
5	7635.1035	-69.84	-52.38	-13.00	39.38	17.46	190
6	12224.3024	-71.97	-49.78	-13.00	36.78	22.19	158
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B2-QPSK-20MHz		Channel		CH 18700	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	63.9224	-91.53	-65.39	-13.00	52.39	26.14	189
2	245.5196	-87.35	-65.19	-13.00	52.19	22.16	219
3	1282.8166	-64.47	-51.40	-13.00	38.40	13.07	219
4	3128.0528	-66.55	-41.27	-13.00	28.27	25.28	55
5	5553.4653	-64.10	-37.80	-13.00	24.80	26.30	236
6	17348.2448	-78.98	-45.94	-13.00	32.94	33.04	94
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	57.1807	-91.69	-64.45	-13.00	51.45	27.24	97
2	261.5712	-88.54	-65.46	-13.00	52.46	23.08	221
3	1388.8578	-64.11	-50.24	-13.00	37.24	13.87	360
4	3701.9802	-59.33	-36.58	-13.00	23.58	22.75	205
5	5553.1353	-64.37	-38.63	-13.00	25.63	25.74	205
6	17709.8110	-79.62	-47.52	-13.00	34.52	32.10	154
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B4-QPSK-1.4MHz		Channel		CH 20393	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	57.7158	-93.43	-66.39	-13.00	53.39	27.04	170
2	262.1062	-88.85	-65.60	-13.00	52.60	23.25	201
3	1277.4955	-63.47	-50.46	-13.00	37.46	13.01	325
4	3422.1122	-59.26	-37.25	-13.00	24.25	22.01	338
5	5133.6634	-63.88	-38.70	-13.00	25.70	25.18	278
6	17358.7759	-78.45	-45.63	-13.00	32.63	32.82	0
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	47.6568	-93.96	-66.30	-13.00	53.30	27.66	63
2	160.8741	-93.35	-68.81	-13.00	55.81	24.54	124
3	1370.9942	-63.43	-49.57	-13.00	36.57	13.86	124
4	3422.1122	-49.87	-28.55	-13.00	15.55	21.32	198
5	8554.8155	-67.00	-48.94	-13.00	35.94	18.06	226
6	16388.7489	-78.03	-47.52	-13.00	34.52	30.51	97
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B5-QPSK-5MHz		Channel		CH 20425	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	63.8154	-91.56	-65.44	-13.00	52.44	26.12	170
2	262.4272	-89.63	-66.36	-13.00	53.36	23.27	201
3	1668.5937	-55.13	-41.57	-13.00	28.57	13.56	45
4	2423.8048	-60.37	-41.08	-13.00	28.08	19.29	107
5	5790.0990	-61.08	-33.90	-13.00	20.90	27.18	125
6	17709.8110	-78.36	-45.44	-13.00	32.44	32.92	204
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	49.7970	-93.61	-65.92	-13.00	52.92	27.69	253
2	612.6733	-93.67	-63.48	-13.00	50.48	30.19	97
3	1668.5937	-55.33	-41.38	-13.00	28.38	13.95	128
4	3563.0363	-65.82	-42.72	-13.00	29.72	23.10	0
5	8445.9946	-70.60	-52.90	-13.00	39.90	17.70	278
6	16395.7696	-77.14	-47.29	-13.00	34.29	29.85	308
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B7-QPSK-20MHz		Channel		CH 21100	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	57.9298	-93.90	-66.88	-13.00	53.88	27.02	142
2	194.1544	-90.70	-69.04	-13.00	56.04	21.66	295
3	595.6586	-92.42	-62.28	-13.00	49.28	30.14	0
4	1556.0912	-58.23	-45.59	-13.00	32.59	12.64	82
5	3127.0627	-66.63	-41.48	-13.00	28.48	25.15	334
6	8759.6310	-69.67	-51.74	-13.00	38.74	17.93	326
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	49.1549	-93.03	-65.22	-13.00	52.22	27.81	35
2	159.2689	-93.91	-68.96	-13.00	55.96	24.95	65
3	512.0832	-91.79	-63.43	-13.00	50.43	28.36	126
4	1554.1908	-55.01	-42.99	-13.00	29.99	12.02	187
5	3129.7030	-67.02	-42.93	-13.00	29.93	24.09	357
6	6236.6337	-65.55	-37.68	-13.00	24.68	27.87	0
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B12-QPSK-5MHz		Channel		CH 23035	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	56.8597	-94.07	-67.07	-13.00	54.07	27.00	173
2	150.3870	-92.85	-69.31	-13.00	56.31	23.54	173
3	255.6856	-89.02	-66.09	-13.00	53.09	22.93	204
4	1399.1198	-56.56	-45.49	-13.00	32.49	11.07	52
5	3130.3630	-66.79	-41.28	-13.00	28.28	25.51	34
6	7395.3195	-70.88	-53.02	-13.00	40.02	17.86	266
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	51.6162	-92.86	-65.89	-13.00	52.89	26.97	171
2	162.3722	-92.87	-69.13	-13.00	56.13	23.74	233
3	538.5149	-91.56	-63.07	-13.00	50.07	28.49	45
4	1399.1198	-58.67	-45.16	-13.00	32.16	13.51	203
5	3135.6436	-66.73	-43.13	-13.00	30.13	23.60	360
6	10597.4197	-72.35	-52.37	-13.00	39.37	19.98	0
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B17-QPSK-10MHz		Channel		CH 23780	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	66.1696	-92.33	-66.31	-13.00	53.31	26.02	218
2	148.9959	-92.57	-68.88	-13.00	55.88	23.69	340
3	582.1752	-92.44	-63.16	-13.00	50.16	29.28	360
4	1564.4529	-55.75	-43.49	-40.00	3.49	12.26	96
5	3129.0429	-67.09	-41.69	-13.00	28.69	25.40	202
6	11014.7765	-72.22	-51.97	-13.00	38.97	20.25	215
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	38.4538	-92.57	-65.96	-13.00	52.96	26.61	3
2	159.3759	-94.32	-69.36	-13.00	56.36	24.96	65
3	516.7917	-91.84	-63.12	-13.00	50.12	28.72	360
4	1565.2130	-54.58	-42.75	-40.00	2.75	11.83	157
5	3531.6832	-66.07	-42.66	-13.00	29.66	23.41	116
6	11586.9487	-72.49	-51.54	-13.00	38.54	20.95	3
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B38-QPSK-5MHz		Channel		CH 38000	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	38.2398	-91.61	-65.07	-25.00	40.07	26.54	250
2	265.6376	-84.53	-61.28	-25.00	36.28	23.25	250
3	796.6247	-92.27	-60.41	-25.00	35.41	31.86	250
4	1385.0570	-63.80	-49.94	-25.00	24.94	13.86	313
5	3761.0561	-64.04	-40.09	-25.00	15.09	23.95	175
6	12482.8983	-71.69	-48.39	-25.00	23.39	23.30	248
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	38.9889	-92.88	-66.16	-25.00	41.16	26.72	263
2	268.0988	-86.10	-62.74	-25.00	37.74	23.36	233
3	1375.5551	-64.32	-50.46	-25.00	25.46	13.86	43
4	3764.0264	-63.88	-39.84	-25.00	14.84	24.04	189
5	5990.4290	-65.73	-37.76	-25.00	12.76	27.97	157
6	13174.4374	-71.20	-46.61	-25.00	21.61	24.59	175
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

Test Mode		LTE B66-QPSK-1.4MHz		Channel		CH 132665	
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	56.1106	-93.10	-66.29	-13.00	53.29	26.81	204
2	265.2095	-91.64	-68.42	-13.00	55.42	23.22	234
3	613.4223	-91.63	-61.03	-13.00	48.03	30.60	326
4	1668.2136	-55.62	-42.08	-13.00	29.08	13.54	204
5	3132.0132	-66.75	-41.34	-13.00	28.34	25.41	34
6	9260.2010	-70.21	-52.34	-13.00	39.34	17.87	175
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	50.2250	-92.81	-65.30	-13.00	52.30	27.51	263
2	159.6970	-93.90	-68.95	-13.00	55.95	24.95	0
3	511.9762	-92.22	-63.86	-13.00	50.86	28.36	356
4	1668.5937	-53.63	-39.68	-13.00	26.68	13.95	199
5	5973.9274	-65.98	-38.10	-13.00	25.10	27.88	33
6	10117.4917	-72.44	-51.97	-13.00	38.97	20.47	172
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBm) = Reading (dBm) + Factor (dB). 3. Margin(dB) = Limit[dBm] - Level [dBm]							

3.2 Out power Measurement

3.2.1 TEST PROCEDURES

Subclause 5.6 of Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$EIRP = PT + GT - LC$, $ERP = EIRP - 2.15\text{dBi}$, where

PT = transmitter output power dBm;

GT = gain of the transmitting antenna dBi;

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

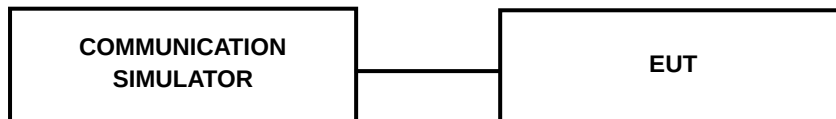
Conducted Power Measurement:

The EUT was set up for the maximum power with LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.2.2 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.2.3 TEST RESULTS (ROD ANTENNA)

Modulation	Band	WCDMA Band IV(conducted)		
	Tx Channel	1312CH	1413CH	1513CH
	Frequency	1712.4MHz	1732.6MHz	1752.6MHz
QPSK	RMC 12.2K	23.64	23.26	23.5
	RMC 64K	23.62	23.23	23.48
	RMC 144K	23.62	23.23	23.47
	RMC 384K	23.62	23.22	23.58
	HSDPA Subtest-1	22.39	22.08	22.28
	HSDPA Subtest-2	22.38	22.19	22.3
	HSDPA Subtest-3	21.86	21.69	21.81
	HSDPA Subtest-4	21.84	21.62	21.81
	HSUPA Subtest-1	21.55	22.16	22
	HSUPA Subtest-2	21.02	20.67	21.08
	HSUPA Subtest-3	21.22	20.28	21.26
	HSUPA Subtest-4	21.07	21.46	21.31
	HSUPA Subtest-5	22.34	22.11	22.26
Modulation	Band	WCDMA Band IV(EIRP)		
	Tx Channel	1312CH	1413CH	1513CH
	Frequency	1712.4MHz	1732.6MHz	1752.6MHz
QPSK	RMC 12.2K	23.34	22.96	23.2
	RMC 64K	23.32	22.93	23.18
	RMC 144K	23.32	22.93	23.17
	RMC 384K	23.32	22.92	23.28
	HSDPA Subtest-1	22.09	21.78	21.98
	HSDPA Subtest-2	22.08	21.89	22
	HSDPA Subtest-3	21.56	21.39	21.51
	HSDPA Subtest-4	21.54	21.32	21.51
	HSUPA Subtest-1	21.25	21.86	21.7
	HSUPA Subtest-2	20.72	20.37	20.78
	HSUPA Subtest-3	20.92	19.98	20.96
	HSUPA Subtest-4	20.77	21.16	21.01
	HSUPA Subtest-5	22.04	21.81	21.96

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19957CH	20175CH	20393CH
				1710.7MHz	1732.5MHz	1754.3MHz
4 / 1.4MHz (conducted)	QPSK	1	0	21.95	22.07	21.89
		1	2	21.98	22.07	22.07
		1	5	21.88	21.93	22.00
		3	0	21.92	22.12	22.01
		3	1	21.93	22.12	21.99
		3	2	21.96	22.07	22.04
		6	0	21.04	21.10	21.10
	16QAM	1	0	20.98	20.96	21.16
		1	2	21.36	20.40	21.02
		1	5	20.89	20.83	20.92
		3	0	21.11	20.75	20.63
		3	1	20.87	20.64	20.69
		3	2	20.97	20.98	20.69
		6	0	19.56	19.88	20.11
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19957CH	20175CH	20393CH
				1710.7MHz	1732.5MHz	1754.3MHz
4 / 1.4MHz (EIRP)	QPSK	1	0	21.65	21.77	21.59
		1	2	21.68	21.77	21.77
		1	5	21.58	21.63	21.7
		3	0	21.62	21.82	21.71
		3	1	21.63	21.82	21.69
		3	2	21.66	21.77	21.74
		6	0	20.74	20.8	20.8
	16QAM	1	0	20.68	20.66	20.86
		1	2	21.06	20.1	20.72
		1	5	20.59	20.53	20.62
		3	0	20.81	20.45	20.33
		3	1	20.57	20.34	20.39
		3	2	20.67	20.68	20.39
		6	0	19.26	19.58	19.81

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19965CH	20175CH	20385CH
				1711.5MHz	1732.5MHz	1753.5MHz
4 / 3MHz (conducted)	QPSK	1	0	22.14	21.90	21.90
		1	7	22.19	21.91	22.20
		1	14	21.96	21.98	22.15
		8	0	20.96	21.15	21.02
		8	4	20.97	21.04	21.03
		8	7	20.94	21.09	21.03
		15	0	20.85	21.16	20.99
	16QAM	1	0	21.35	20.78	21.35
		1	7	21.37	20.93	20.96
		1	14	21.44	20.86	21.41
		8	0	19.71	20.03	20.16
		8	4	19.74	20.08	20.19
		8	7	19.66	19.95	20.20
		15	0	19.84	19.98	20.13
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19965CH	20175CH	20385CH
				1711.5MHz	1732.5MHz	1753.5MHz
4 / 3MHz (EIRP)	QPSK	1	0	21.84	21.6	21.6
		1	7	21.89	21.61	21.9
		1	14	21.66	21.68	21.85
		8	0	20.66	20.85	20.72
		8	4	20.67	20.74	20.73
		8	7	20.64	20.79	20.73
		15	0	20.55	20.86	20.69
	16QAM	1	0	21.05	20.48	21.05
		1	7	21.07	20.63	20.66
		1	14	21.14	20.56	21.11
		8	0	19.41	19.73	19.86
		8	4	19.44	19.78	19.89
		8	7	19.36	19.65	19.9
		15	0	19.54	19.68	19.83

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19975CH	20175CH	20375CH
				1712.5MHz	1732.5MHz	1752.5MHz
4 / 5MHz (conducted)	QPSK	1	0	21.93	21.70	21.73
		1	13	21.74	21.54	21.92
		1	24	21.87	21.76	22.08
		12	0	20.96	21.08	21.07
		12	6	20.87	21.01	21.00
		12	11	20.92	21.07	21.21
		25	0	20.96	21.12	21.09
	16QAM	1	0	20.90	20.69	20.73
		1	13	20.70	20.53	20.22
		1	24	20.85	20.59	20.85
		12	0	19.96	19.84	19.77
		12	6	19.87	19.81	20.05
		12	11	19.93	19.78	20.19
		25	0	20.08	20.20	20.05
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19975CH	20175CH	20375CH
				1712.5MHz	1732.5MHz	1752.5MHz
4 / 5MHz (EIRP)	QPSK	1	0	21.63	21.4	21.43
		1	13	21.44	21.24	21.62
		1	24	21.57	21.46	21.78
		12	0	20.66	20.78	20.77
		12	6	20.57	20.71	20.7
		12	11	20.62	20.77	20.91
		25	0	20.66	20.82	20.79
	16QAM	1	0	20.6	20.39	20.43
		1	13	20.4	20.23	19.92
		1	24	20.55	20.29	20.55
		12	0	19.66	19.54	19.47
		12	6	19.57	19.51	19.75
		12	11	19.63	19.48	19.89
		25	0	19.78	19.9	19.75

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20000CH	20175CH	20350CH
				1715MHz	1732.5MHz	1750MHz
4 / 10MHz (conducted)	QPSK	1	0	22.03	22.07	21.72
		1	25	22.31	22.08	22.27
		1	49	22.13	22.07	22.37
		25	0	20.93	21.24	20.99
		25	13	21.07	21.12	21.07
		25	25	21.16	21.12	21.09
		50	0	21.03	21.05	21.00
	16QAM	1	0	21.62	20.86	21.25
		1	25	21.97	20.94	21.19
		1	49	21.70	20.83	21.29
		25	0	19.87	20.25	19.81
		25	13	19.92	20.19	19.99
		25	25	20.00	20.28	19.92
		50	0	19.84	20.05	19.94
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20000CH	20175CH	20350CH
				1715MHz	1732.5MHz	1750MHz
4 / 10MHz (EIRP)	QPSK	1	0	21.73	21.77	21.42
		1	25	22.01	21.78	21.97
		1	49	21.83	21.77	22.07
		25	0	20.63	20.94	20.69
		25	13	20.77	20.82	20.77
		25	25	20.86	20.82	20.79
		50	0	20.73	20.75	20.7
	16QAM	1	0	21.32	20.56	20.95
		1	25	21.67	20.64	20.89
		1	49	21.4	20.53	20.99
		25	0	19.57	19.95	19.51
		25	13	19.62	19.89	19.69
		25	25	19.7	19.98	19.62
		50	0	19.54	19.75	19.64

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20025CH	20175CH	20325CH
				1717.5MHz	1732.5MHz	1747.5MHz
4 / 15MHz (conducted)	QPSK	1	0	22.41	22.08	21.79
		1	38	22.35	21.90	22.00
		1	74	22.19	21.90	22.20
		36	0	21.10	21.06	20.84
		36	18	21.07	20.96	20.85
		36	39	21.00	20.99	20.97
		75	0	21.05	20.91	20.87
	16QAM	1	0	21.29	20.78	21.73
		1	38	21.41	20.73	21.47
		1	74	21.18	20.48	21.70
		36	0	19.90	20.08	19.91
		36	18	19.91	20.13	19.98
		36	39	19.76	20.14	20.15
		75	0	19.98	20.05	20.03
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20025CH	20175CH	20325CH
				1717.5MHz	1732.5MHz	1747.5MHz
4 / 15MHz (EIRP)	QPSK	1	0	22.11	21.78	21.49
		1	38	22.05	21.6	21.7
		1	74	21.89	21.6	21.9
		36	0	20.8	20.76	20.54
		36	18	20.77	20.66	20.55
		36	39	20.7	20.69	20.67
		75	0	20.75	20.61	20.57
	16QAM	1	0	20.99	20.48	21.43
		1	38	21.11	20.43	21.17
		1	74	20.88	20.18	21.4
		36	0	19.6	19.78	19.61
		36	18	19.61	19.83	19.68
		36	39	19.46	19.84	19.85
		75	0	19.68	19.75	19.73

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20050CH	20175CH	20300CH
				1720MHz	1732.5MHz	1740MHz
4 / 20MHz (conducted)	QPSK	1	0	21.57	21.86	21.80
		1	50	21.75	21.94	21.91
		1	99	21.59	21.93	22.18
		50	0	20.97	21.05	21.08
		50	25	20.94	20.95	20.90
		50	50	21.15	21.06	20.93
		100	0	20.95	21.07	20.88
	16QAM	1	0	20.86	21.06	21.08
		1	50	20.74	21.03	20.78
		1	99	20.80	20.70	20.99
		50	0	20.14	20.08	20.05
		50	25	20.05	20.09	20.06
		50	50	20.21	20.06	20.07
		100	0	20.09	20.20	20.07
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20050CH	20175CH	20300CH
				1720MHz	1732.5MHz	1740MHz
4 / 20MHz (EIRP)	QPSK	1	0	21.27	21.56	21.5
		1	50	21.45	21.64	21.61
		1	99	21.29	21.63	21.88
		50	0	20.67	20.75	20.78
		50	25	20.64	20.65	20.6
		50	50	20.85	20.76	20.63
		100	0	20.65	20.77	20.58
	16QAM	1	0	20.56	20.76	20.78
		1	50	20.44	20.73	20.48
		1	99	20.5	20.4	20.69
		50	0	19.84	19.78	19.75
		50	25	19.75	19.79	19.76
		50	50	19.91	19.76	19.77
		100	0	19.79	19.9	19.77

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20775CH	21100CH	21425CH
				2502.5MHz	2535MHz	2567.5MHz
7 / 5MHz (conducted)	QPSK	1	0	22.12	22.06	22.00
		1	13	22.10	22.06	21.92
		1	24	22.42	21.98	22.02
		12	0	21.56	21.33	21.16
		12	6	21.51	21.27	21.20
		12	11	21.48	21.27	21.14
		25	0	21.56	21.28	21.13
	16QAM	1	0	20.86	21.30	20.50
		1	13	20.92	21.19	20.83
		1	24	21.07	20.49	20.52
		12	0	20.45	20.15	19.81
		12	6	20.49	20.15	19.98
		12	11	20.32	20.20	20.02
		25	0	20.47	20.28	19.93
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20775CH	21100CH	21425CH
				2502.5MHz	2535MHz	2567.5MHz
7 / 5MHz (EIRP)	QPSK	1	0	25.02	24.96	24.9
		1	13	25	24.96	24.82
		1	24	25.32	24.88	24.92
		12	0	24.46	24.23	24.06
		12	6	24.41	24.17	24.1
		12	11	24.38	24.17	24.04
		25	0	24.46	24.18	24.03
	16QAM	1	0	23.76	24.2	23.4
		1	13	23.82	24.09	23.73
		1	24	23.97	23.39	23.42
		12	0	23.35	23.05	22.71
		12	6	23.39	23.05	22.88
		12	11	23.22	23.1	22.92
		25	0	23.37	23.18	22.83

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20800CH	21100CH	21400CH
				2505MHz	2535MHz	2565MHz
7 / 10MHz (conducted)	QPSK	1	0	22.89	22.43	22.26
		1	25	22.79	22.14	22.44
		1	49	22.51	22.21	22.06
		25	0	21.61	21.38	21.30
		25	13	21.49	21.33	21.15
		25	25	21.46	21.33	21.10
		50	0	21.59	21.30	21.26
	16QAM	1	0	21.94	21.11	21.34
		1	25	21.98	21.08	22.16
		1	49	21.82	20.23	21.01
		25	0	20.52	20.39	20.16
		25	13	20.44	20.39	20.20
		25	25	20.42	20.28	20.07
		50	0	20.56	20.16	20.06
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20800CH	21100CH	21400CH
				2505MHz	2535MHz	2565MHz
7 / 10MHz (EIRP)	QPSK	1	0	25.79	25.33	25.16
		1	25	25.69	25.04	25.34
		1	49	25.41	25.11	24.96
		25	0	24.51	24.28	24.2
		25	13	24.39	24.23	24.05
		25	25	24.36	24.23	24
		50	0	24.49	24.2	24.16
	16QAM	1	0	24.84	24.01	24.24
		1	25	24.88	23.98	25.06
		1	49	24.72	23.13	23.91
		25	0	23.42	23.29	23.06
		25	13	23.34	23.29	23.1
		25	25	23.32	23.18	22.97
		50	0	23.46	23.06	22.96

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20825CH	21100CH	21375CH
				2507.5MHz	2535MHz	2562.5MHz
7 / 15MHz (conducted)	QPSK	1	0	22.64	22.44	22.24
		1	38	22.69	21.98	22.29
		1	74	22.89	21.95	22.03
		36	0	21.38	21.25	21.21
		36	18	21.35	21.14	21.23
		36	39	21.57	21.12	21.07
		75	0	21.41	21.24	21.18
	16QAM	1	0	22.14	21.27	21.74
		1	38	21.63	20.04	21.99
		1	74	22.73	20.51	21.21
		36	0	20.34	20.22	20.20
		36	18	20.34	20.18	20.23
		36	39	20.40	20.08	20.00
		75	0	20.32	20.13	20.25
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20825CH	21100CH	21375CH
				2507.5MHz	2535MHz	2562.5MHz
7 / 15MHz (EIRP)	QPSK	1	0	25.54	25.34	25.14
		1	38	25.59	24.88	25.19
		1	74	25.79	24.85	24.93
		36	0	24.28	24.15	24.11
		36	18	24.25	24.04	24.13
		36	39	24.47	24.02	23.97
		75	0	24.31	24.14	24.08
	16QAM	1	0	25.04	24.17	24.64
		1	38	24.53	22.94	24.89
		1	74	25.63	23.41	24.11
		36	0	23.24	23.12	23.1
		36	18	23.24	23.08	23.13
		36	39	23.3	22.98	22.9
		75	0	23.22	23.03	23.15

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20850CH	21100CH	21350CH
				2510MHz	2535MHz	2560MHz
7 / 20MHz (conducted)	QPSK	1	0	21.98	22.36	22.17
		1	50	22.13	22.39	22.63
		1	99	22.24	21.94	21.94
		50	0	21.39	21.32	21.24
		50	25	21.51	21.20	21.22
		50	50	21.53	21.19	21.05
		100	0	21.41	21.32	21.19
	16QAM	1	0	21.58	21.43	20.80
		1	50	21.29	21.18	21.18
		1	99	21.37	20.53	20.75
		50	0	20.25	20.34	20.17
		50	25	20.56	20.05	20.06
		50	50	20.56	20.00	19.96
		100	0	20.30	20.23	20.07
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20850CH	21100CH	21350CH
				2510MHz	2535MHz	2560MHz
7 / 20MHz (EIRP)	QPSK	1	0	24.88	25.26	25.07
		1	50	25.03	25.29	25.53
		1	99	25.14	24.84	24.84
		50	0	24.29	24.22	24.14
		50	25	24.41	24.1	24.12
		50	50	24.43	24.09	23.95
		100	0	24.31	24.22	24.09
	16QAM	1	0	24.48	24.33	23.7
		1	50	24.19	24.08	24.08
		1	99	24.27	23.43	23.65
		50	0	23.15	23.24	23.07
		50	25	23.46	22.95	22.96
		50	50	23.46	22.9	22.86
		100	0	23.2	23.13	22.97

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23017CH	23095CH	23173CH
				699.7MHz	707.5MHz	715.3MHz
12 / 1.4MHz (conducted)	QPSK	1	0	22.49	22.61	22.33
		1	2	22.51	22.71	22.57
		1	5	22.33	22.46	22.50
		3	0	22.45	22.74	22.60
		3	1	22.66	22.77	22.77
		3	2	22.43	22.67	22.57
		6	0	21.42	21.67	21.58
	16QAM	1	0	21.37	21.59	21.58
		1	2	21.05	21.56	21.93
		1	5	20.76	21.49	21.44
		3	0	21.42	21.95	21.58
		3	1	21.59	22.07	21.52
		3	2	21.32	21.97	21.37
		6	0	20.49	20.61	20.51
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23017CH	23095CH	23173CH
				699.7MHz	707.5MHz	715.3MHz
12 / 1.4MHz (ERP)	QPSK	1	0	20.84	20.96	20.68
		1	2	20.86	21.06	20.92
		1	5	20.68	20.81	20.85
		3	0	20.8	21.09	20.95
		3	1	21.01	21.12	21.12
		3	2	20.78	21.02	20.92
		6	0	19.77	20.02	19.93
	16QAM	1	0	19.72	19.94	19.93
		1	2	19.4	19.91	20.28
		1	5	19.11	19.84	19.79
		3	0	19.77	20.3	19.93
		3	1	19.94	20.42	19.87
		3	2	19.67	20.32	19.72
		6	0	18.84	18.96	18.86

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23025CH	23095CH	23165CH
				700.5MHz	707.5MHz	714.5MHz
12 / 3MHz (conducted)	QPSK	1	0	22.47	22.72	22.91
		1	7	22.59	22.43	22.73
		1	14	22.40	22.60	22.63
		8	0	21.27	21.60	21.74
		8	4	21.37	21.57	21.70
		8	7	21.33	21.58	21.66
		15	0	21.25	21.63	21.65
	16QAM	1	0	21.89	21.66	22.11
		1	7	21.66	21.20	21.96
		1	14	22.23	21.54	21.66
		8	0	20.17	20.80	20.71
		8	4	20.20	20.70	20.62
		8	7	20.17	20.48	20.62
		15	0	20.34	20.66	20.39
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23025CH	23095CH	23165CH
				700.5MHz	707.5MHz	714.5MHz
12 / 3MHz (ERP)	QPSK	1	0	20.82	21.07	21.26
		1	7	20.94	20.78	21.08
		1	14	20.75	20.95	20.98
		8	0	19.62	19.95	20.09
		8	4	19.72	19.92	20.05
		8	7	19.68	19.93	20.01
		15	0	19.6	19.98	20
	16QAM	1	0	20.24	20.01	20.46
		1	7	20.01	19.55	20.31
		1	14	20.58	19.89	20.01
		8	0	18.52	19.15	19.06
		8	4	18.55	19.05	18.97
		8	7	18.52	18.83	18.97
		15	0	18.69	19.01	18.74

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23035CH	23095CH	23155CH
				701.5MHz	707.5MHz	713.5MHz
12 / 5MHz (conducted)	QPSK	1	0	22.16	22.56	22.30
		1	13	22.15	22.04	22.64
		1	24	22.66	22.35	22.39
		12	0	21.29	21.76	21.65
		12	6	21.35	21.58	21.69
		12	11	21.50	21.60	21.67
		25	0	21.49	21.69	21.65
	16QAM	1	0	21.36	21.87	21.51
		1	13	21.39	21.10	21.97
		1	24	21.36	21.47	21.89
		12	0	20.22	20.56	20.41
		12	6	20.25	20.34	20.60
		12	11	20.31	20.42	20.58
		25	0	20.59	20.65	20.63
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23035CH	23095CH	23155CH
				701.5MHz	707.5MHz	713.5MHz
12 / 5MHz (ERP)	QPSK	1	0	20.51	20.91	20.65
		1	13	20.5	20.39	20.99
		1	24	21.01	20.7	20.74
		12	0	19.64	20.11	20
		12	6	19.7	19.93	20.04
		12	11	19.85	19.95	20.02
		25	0	19.84	20.04	20
	16QAM	1	0	19.71	20.22	19.86
		1	13	19.74	19.45	20.32
		1	24	19.71	19.82	20.24
		12	0	18.57	18.91	18.76
		12	6	18.6	18.69	18.95
		12	11	18.66	18.77	18.93
		25	0	18.94	19	18.98

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23060CH	23095CH	23130CH
				704MHz	707.5MHz	711MHz
12 / 10MHz (conducted)	QPSK	1	0	22.34	22.47	22.46
		1	25	22.89	22.53	22.65
		1	49	22.68	22.78	22.74
		25	0	21.43	21.67	21.58
		25	13	21.62	21.62	21.67
		25	25	21.74	21.65	21.66
		50	0	21.64	21.67	21.60
	16QAM	1	0	21.65	21.39	21.37
		1	25	22.12	21.00	22.21
		1	49	22.08	21.29	21.54
		25	0	20.50	20.55	20.50
		25	13	20.62	20.54	20.64
		25	25	20.73	20.54	20.69
		50	0	20.55	20.50	20.49
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23060CH	23095CH	23130CH
				704MHz	707.5MHz	711MHz
12 / 10MHz (ERP)	QPSK	1	0	20.69	20.82	20.81
		1	25	21.24	20.88	21
		1	49	21.03	21.13	21.09
		25	0	19.78	20.02	19.93
		25	13	19.97	19.97	20.02
		25	25	20.09	20	20.01
		50	0	19.99	20.02	19.95
	16QAM	1	0	20	19.74	19.72
		1	25	20.47	19.35	20.56
		1	49	20.43	19.64	19.89
		25	0	18.85	18.9	18.85
		25	13	18.97	18.89	18.99
		25	25	19.08	18.89	19.04
		50	0	18.9	18.85	18.84

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23755CH	23790CH	23825CH
				706.5MHz	710MHz	713.5MHz
17 / 5MHz (conducted)	QPSK	1	0	23.23	22.53	22.60
		1	13	22.45	22.80	22.78
		1	24	22.41	22.90	22.33
		12	0	22.01	21.77	21.91
		12	6	21.89	21.74	21.92
		12	11	21.86	21.90	21.82
		25	0	21.88	21.90	21.89
	16QAM	1	0	22.19	21.72	21.63
		1	13	21.23	21.61	21.80
		1	24	21.41	22.16	21.19
		12	0	20.93	20.57	20.71
		12	6	20.88	20.77	20.83
		12	11	20.84	20.76	20.68
		25	0	20.81	20.82	20.89
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23755CH	23790CH	23825CH
				706.5MHz	710MHz	713.5MHz
17 / 5MHz (ERP)	QPSK	1	0	21.28	20.58	20.65
		1	13	20.5	20.85	20.83
		1	24	20.46	20.95	20.38
		12	0	20.06	19.82	19.96
		12	6	19.94	19.79	19.97
		12	11	19.91	19.95	19.87
		25	0	19.93	19.95	19.94
	16QAM	1	0	20.24	19.77	19.68
		1	13	19.28	19.66	19.85
		1	24	19.46	20.21	19.24
		12	0	18.98	18.62	18.76
		12	6	18.93	18.82	18.88
		12	11	18.89	18.81	18.73
		25	0	18.86	18.87	18.94

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23780CH	23790CH	23800CH
				709MHz	710MHz	711MHz
17 / 10MHz (conducted)	QPSK	1	0	23.11	22.93	22.68
		1	25	22.75	22.88	23.19
		1	49	23.35	22.71	22.86
		25	0	22.02	21.86	21.79
		25	13	21.91	21.85	22.06
		25	25	22.09	21.98	21.96
		50	0	22.13	21.96	21.77
	16QAM	1	0	22.24	21.71	21.79
		1	25	22.27	21.66	21.69
		1	49	22.23	21.78	22.04
		25	0	20.87	20.76	20.97
		25	13	20.81	20.77	20.91
		25	25	20.94	20.86	21.07
		50	0	20.71	20.69	20.60
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23780CH	23790CH	23800CH
				709MHz	710MHz	711MHz
17 / 10MHz (ERP)	QPSK	1	0	21.16	20.98	20.73
		1	25	20.8	20.93	21.24
		1	49	21.4	20.76	20.91
		25	0	20.07	19.91	19.84
		25	13	19.96	19.9	20.11
		25	25	20.14	20.03	20.01
		50	0	20.18	20.01	19.82
	16QAM	1	0	20.29	19.76	19.84
		1	25	20.32	19.71	19.74
		1	49	20.28	19.83	20.09
		25	0	18.92	18.81	19.02
		25	13	18.86	18.82	18.96
		25	25	18.99	18.91	19.12
		50	0	18.76	18.74	18.65

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37775CH	38000CH	38225CH
				2572.5MHz	2595MHz	2617.5MHz
38 / 5MHz (conducted)	QPSK	1	0	21.33	21.58	21.18
		1	13	21.58	21.75	21.26
		1	24	21.29	21.63	20.96
		12	0	20.73	20.77	20.46
		12	6	20.84	20.82	20.44
		12	11	20.77	20.77	20.42
		25	0	20.81	20.84	20.46
	16QAM	1	0	20.13	20.13	20.07
		1	13	20.43	20.47	19.98
		1	24	20.17	20.52	19.73
		12	0	19.60	19.45	19.49
		12	6	19.90	19.72	19.50
		12	11	19.59	19.87	19.36
		25	0	19.51	19.70	19.25
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37775CH	38000CH	38225CH
				2572.5MHz	2595MHz	2617.5MHz
38 / 5MHz (EIRP)	QPSK	1	0	24.13	24.38	23.98
		1	13	24.38	24.55	24.06
		1	24	24.09	24.43	23.76
		12	0	23.53	23.57	23.26
		12	6	23.64	23.62	23.24
		12	11	23.57	23.57	23.22
		25	0	23.61	23.64	23.26
	16QAM	1	0	22.93	22.93	22.87
		1	13	23.23	23.27	22.78
		1	24	22.97	23.32	22.53
		12	0	22.4	22.25	22.29
		12	6	22.7	22.52	22.3
		12	11	22.39	22.67	22.16
		25	0	22.31	22.5	22.05

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37800CH	38000CH	38200CH
				2575MHz	2595MHz	2615MHz
38 / 10MHz (conducted)	QPSK	1	0	21.64	21.42	21.38
		1	25	21.78	21.59	21.61
		1	49	21.64	21.66	21.41
		25	0	20.72	20.69	20.44
		25	13	20.75	20.79	20.63
		25	25	20.73	20.76	20.45
		50	0	20.76	20.66	20.40
	16QAM	1	0	21.11	19.78	20.71
		1	25	21.38	20.27	21.25
		1	49	21.10	20.28	20.91
		25	0	19.79	19.61	19.26
		25	13	19.81	19.62	19.43
		25	25	19.76	19.58	19.38
		50	0	19.54	19.66	19.33
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37800CH	38000CH	38200CH
				2575MHz	2595MHz	2615MHz
38 / 10MHz (EIRP)	QPSK	1	0	24.44	24.22	24.18
		1	25	24.58	24.39	24.41
		1	49	24.44	24.46	24.21
		25	0	23.52	23.49	23.24
		25	13	23.55	23.59	23.43
		25	25	23.53	23.56	23.25
		50	0	23.56	23.46	23.2
	16QAM	1	0	23.91	22.58	23.51
		1	25	24.18	23.07	24.05
		1	49	23.9	23.08	23.71
		25	0	22.59	22.41	22.06
		25	13	22.61	22.42	22.23
		25	25	22.56	22.38	22.18
		50	0	22.34	22.46	22.13

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37825CH	38000CH	38175CH
				2577.5MHz	2595MHz	2612.5MHz
38 / 15MHz (conducted)	QPSK	1	0	21.52	21.42	21.48
		1	38	21.65	21.54	21.31
		1	74	21.60	21.56	21.21
		36	0	20.82	20.62	20.41
		36	18	20.86	20.75	20.44
		36	39	20.73	20.80	20.36
		75	0	20.60	20.72	20.49
	16QAM	1	0	21.33	19.93	20.36
		1	38	21.24	20.29	20.54
		1	74	21.36	20.01	20.07
		36	0	19.66	19.74	19.39
		36	18	19.63	19.73	19.17
		36	39	19.64	19.75	19.44
		75	0	19.88	19.68	19.38
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37825CH	38000CH	38175CH
				2577.5MHz	2595MHz	2612.5MHz
38 / 15MHz (EIRP)	QPSK	1	0	24.32	24.22	24.28
		1	38	24.45	24.34	24.11
		1	74	24.4	24.36	24.01
		36	0	23.62	23.42	23.21
		36	18	23.66	23.55	23.24
		36	39	23.53	23.6	23.16
		75	0	23.4	23.52	23.29
	16QAM	1	0	24.13	22.73	23.16
		1	38	24.04	23.09	23.34
		1	74	24.16	22.81	22.87
		36	0	22.46	22.54	22.19
		36	18	22.43	22.53	21.97
		36	39	22.44	22.55	22.24
		75	0	22.68	22.48	22.18

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				37850CH	38000CH	38150CH
				2580MHz	2595MHz	2610MHz
38 / 20MHz (conducted)	QPSK	1	0	21.28	21.53	21.57
		1	50	21.67	21.91	21.58
		1	99	21.37	21.61	21.48
		50	0	20.79	20.69	20.59
		50	25	20.75	20.88	20.44
		50	50	20.80	20.70	20.25
		100	0	20.81	20.74	20.54
	16QAM	1	0	20.14	19.42	20.87
		1	50	20.64	19.95	20.69
		1	99	20.15	19.79	20.09
		50	0	19.72	19.59	19.42
		50	25	19.76	19.70	19.30
		50	50	19.70	19.66	19.30
		100	0	19.64	19.64	19.49
LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				37850CH	38000CH	38150CH
				2580MHz	2595MHz	2610MHz
38 / 20MHz (EIRP)	QPSK	1	0	24.08	24.33	24.37
		1	50	24.47	24.71	24.38
		1	99	24.17	24.41	24.28
		50	0	23.59	23.49	23.39
		50	25	23.55	23.68	23.24
		50	50	23.6	23.5	23.05
		100	0	23.61	23.54	23.34
	16QAM	1	0	22.94	22.22	23.67
		1	50	23.44	22.75	23.49
		1	99	22.95	22.59	22.89
		50	0	22.52	22.39	22.22
		50	25	22.56	22.5	22.1
		50	50	22.5	22.46	22.1
		100	0	22.44	22.44	22.29

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				131979CH	132322CH	132665CH
				1710.7MHz	1745MHz	1779.3MHz
66 / 1.4MHz (conducted)	QPSK	1	0	22.23	21.86	22.24
		1	2	22.26	21.91	22.55
		1	5	22.23	21.85	22.43
		3	0	22.31	22.02	22.36
		3	1	22.35	22.14	22.47
		3	2	22.46	22.08	22.41
		6	0	21.34	21.20	21.44
	16QAM	1	0	21.73	21.26	21.49
		1	2	22.09	21.34	21.60
		1	5	21.68	21.11	21.30
		3	0	21.59	20.91	21.36
		3	1	21.44	20.78	21.22
		3	2	21.75	20.88	21.14
		6	0	20.48	19.83	20.56
LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				131979CH	132322CH	132665CH
				1710.7MHz	1745MHz	1779.3MHz
66 / 1.4MHz (EIRP)	QPSK	1	0	22.93	22.56	22.94
		1	2	22.96	22.61	23.25
		1	5	22.93	22.55	23.13
		3	0	23.01	22.72	23.06
		3	1	23.05	22.84	23.17
		3	2	23.16	22.78	23.11
		6	0	22.04	21.9	22.14
	16QAM	1	0	22.43	21.96	22.19
		1	2	22.79	22.04	22.3
		1	5	22.38	21.81	22
		3	0	22.29	21.61	22.06
		3	1	22.14	21.48	21.92
		3	2	22.45	21.58	21.84
		6	0	21.18	20.53	21.26

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				131987CH	132322CH	132657CH
				1711.5MHz	1745MHz	1778.5MHz
66 / 3MHz (conducted)	QPSK	1	0	22.51	22.08	22.63
		1	7	22.54	21.84	22.76
		1	14	22.71	21.92	22.34
		8	0	21.40	21.05	21.35
		8	4	21.47	21.07	21.47
		8	7	21.41	21.04	21.46
		15	0	21.34	21.03	21.49
	16QAM	1	0	21.45	21.24	21.12
		1	7	21.66	21.09	21.37
		1	14	21.56	21.27	21.54
		8	0	20.37	20.15	20.25
		8	4	20.23	20.20	20.32
		8	7	20.19	20.25	20.27
		15	0	20.37	20.19	20.21
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				131987CH	132322CH	132657CH
				1711.5MHz	1745MHz	1778.5MHz
66 / 3MHz (EIRP)	QPSK	1	0	23.21	22.78	23.33
		1	7	23.24	22.54	23.46
		1	14	23.41	22.62	23.04
		8	0	22.1	21.75	22.05
		8	4	22.17	21.77	22.17
		8	7	22.11	21.74	22.16
		15	0	22.04	21.73	22.19
	16QAM	1	0	22.15	21.94	21.82
		1	7	22.36	21.79	22.07
		1	14	22.26	21.97	22.24
		8	0	21.07	20.85	20.95
		8	4	20.93	20.9	21.02
		8	7	20.89	20.95	20.97
		15	0	21.07	20.89	20.91

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				131997CH	132322CH	132647CH
				1712.5MHz	1745MHz	1777.5MHz
66 / 5MHz (conducted)	QPSK	1	0	22.11	21.90	22.18
		1	13	22.29	21.98	22.04
		1	24	22.31	22.10	22.12
		12	0	21.42	21.06	21.44
		12	6	21.42	21.15	21.49
		12	11	21.50	21.14	21.43
		25	0	21.41	21.07	21.49
	16QAM	1	0	21.31	21.25	21.36
		1	13	21.35	21.07	21.16
		1	24	21.38	21.20	20.91
		12	0	20.38	19.99	20.42
		12	6	20.37	20.02	20.56
		12	11	20.27	20.21	20.49
		25	0	20.54	20.13	20.64
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				131997CH	132322CH	132647CH
				1712.5MHz	1745MHz	1777.5MHz
66 / 5MHz (EIRP)	QPSK	1	0	22.81	22.6	22.88
		1	13	22.99	22.68	22.74
		1	24	23.01	22.8	22.82
		12	0	22.12	21.76	22.14
		12	6	22.12	21.85	22.19
		12	11	22.2	21.84	22.13
		25	0	22.11	21.77	22.19
	16QAM	1	0	22.01	21.95	22.06
		1	13	22.05	21.77	21.86
		1	24	22.08	21.9	21.61
		12	0	21.08	20.69	21.12
		12	6	21.07	20.72	21.26
		12	11	20.97	20.91	21.19
		25	0	21.24	20.83	21.34

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132022CH	132322CH	132622CH
				1715MHz	1745MHz	1775MHz
66 / 10MHz (conducted)	QPSK	1	0	22.21	22.66	22.33
		1	25	22.64	22.38	22.40
		1	49	22.53	22.46	22.32
		25	0	21.38	21.23	21.48
		25	13	21.51	21.14	21.46
		25	25	21.47	21.19	21.45
		50	0	21.43	21.13	21.46
	16QAM	1	0	21.56	21.44	21.19
		1	25	21.58	20.92	21.16
		1	49	21.42	20.82	21.18
		25	0	20.36	20.41	20.55
		25	13	20.39	20.22	20.41
		25	25	20.44	20.22	20.51
		50	0	20.41	20.12	20.55
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132022CH	132322CH	132622CH
				1715MHz	1745MHz	1775MHz
66 / 10MHz (EIRP)	QPSK	1	0	22.91	23.36	23.03
		1	25	23.34	23.08	23.1
		1	49	23.23	23.16	23.02
		25	0	22.08	21.93	22.18
		25	13	22.21	21.84	22.16
		25	25	22.17	21.89	22.15
		50	0	22.13	21.83	22.16
	16QAM	1	0	22.26	22.14	21.89
		1	25	22.28	21.62	21.86
		1	49	22.12	21.52	21.88
		25	0	21.06	21.11	21.25
		25	13	21.09	20.92	21.11
		25	25	21.14	20.92	21.21
		50	0	21.11	20.82	21.25

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132047CH	132322CH	132597CH
				1717.5MHz	1745MHz	1772.5MHz
66 / 15MHz (conducted)	QPSK	1	0	22.85	22.23	22.24
		1	38	22.95	22.15	22.30
		1	74	22.56	22.34	22.34
		36	0	21.46	21.44	21.50
		36	18	21.40	21.23	21.36
		36	39	21.51	21.28	21.50
		75	0	21.51	21.29	21.47
	16QAM	1	0	21.47	21.22	22.25
		1	38	21.41	21.22	21.73
		1	74	21.08	21.42	21.70
		36	0	20.42	20.32	20.20
		36	18	20.38	20.34	20.21
		36	39	20.40	20.37	20.25
		75	0	20.40	20.27	20.46
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132047CH	132322CH	132597CH
				1717.5MHz	1745MHz	1772.5MHz
66 / 15MHz (EIRP)	QPSK	1	0	23.55	22.93	22.94
		1	38	23.65	22.85	23
		1	74	23.26	23.04	23.04
		36	0	22.16	22.14	22.2
		36	18	22.1	21.93	22.06
		36	39	22.21	21.98	22.2
		75	0	22.21	21.99	22.17
	16QAM	1	0	22.17	21.92	22.95
		1	38	22.11	21.92	22.43
		1	74	21.78	22.12	22.4
		36	0	21.12	21.02	20.9
		36	18	21.08	21.04	20.91
		36	39	21.1	21.07	20.95
		75	0	21.1	20.97	21.16

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132072CH	132322CH	132572CH
				1720MHz	1745MHz	1770MHz
66 / 20MHz (conducted)	QPSK	1	0	22.38	22.42	22.29
		1	50	22.36	22.60	22.44
		1	99	21.81	22.53	22.12
		50	0	21.34	21.39	21.49
		50	25	21.29	21.26	21.44
		50	50	21.38	21.30	21.52
		100	0	21.51	21.28	21.49
	16QAM	1	0	21.31	21.18	21.68
		1	50	21.84	21.11	21.56
		1	99	21.09	21.27	21.00
		50	0	20.44	20.20	20.35
		50	25	20.36	20.37	20.38
		50	50	20.27	20.41	20.26
		100	0	20.38	20.16	20.41
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132072CH	132322CH	132572CH
				1720MHz	1745MHz	1770MHz
66 / 20MHz (EIRP)	QPSK	1	0	23.08	23.12	22.99
		1	50	23.06	23.3	23.14
		1	99	22.51	23.23	22.82
		50	0	22.04	22.09	22.19
		50	25	21.99	21.96	22.14
		50	50	22.08	22	22.22
		100	0	22.21	21.98	22.19
	16QAM	1	0	22.01	21.88	22.38
		1	50	22.54	21.81	22.26
		1	99	21.79	21.97	21.7
		50	0	21.14	20.9	21.05
		50	25	21.06	21.07	21.08
		50	50	20.97	21.11	20.96
		100	0	21.08	20.86	21.11

PCS1900		512CH	661CH	810CH
		1850.2MHz	1880MHz	1909.8MHz
GSM (CS)		28.35	28.20	28.25
GPRS/EDGE (GMSK) (conducted)	1 Tx Slot	27.95	27.89	27.94
	2 Tx Slot	25.42	25.46	25.48
	3 Tx Slot	24.33	24.32	24.38
	4 Tx Slot	22.66	22.67	22.82
EDGE (8PSK) (conducted)	1 Tx Slot	23.7	23.98	24.12
	2 Tx Slot	21.7	21.66	21.42
	3 Tx Slot	20.4	20.45	20.62
	4 Tx Slot	18.51	18.46	18.15
PCS1900		512CH	661CH	810CH
		1850.2MHz	1880MHz	1909.8MHz
GSM (CS)		29.95	29.8	29.85
GPRS/EDGE (GMSK) (EIRP)	1 Tx Slot	29.55	29.49	29.54
	2 Tx Slot	27.02	27.06	27.08
	3 Tx Slot	25.93	25.92	25.98
	4 Tx Slot	24.26	24.27	24.42
EDGE (8PSK) (EIRP)	1 Tx Slot	25.3	25.58	25.72
	2 Tx Slot	23.3	23.26	23.02
	3 Tx Slot	22	22.05	22.22
	4 Tx Slot	20.11	20.06	19.75

Modulation	Band	WCDMA Band II		
	Tx Channel	9262CH	9400CH	9538CH
	Frequency	1852.4MHz	1880MHz	1907.6MHz
QPSK (conducted)	RMC 12.2K	23.45	23.58	23.57
	RMC 64K	23.44	23.55	23.54
	RMC 144K	23.44	23.59	23.57
	RMC 384K	23.43	23.55	23.73
	HSDPA Subtest-1	22.34	22.46	22.4
	HSDPA Subtest-2	22.29	22.44	22.35
	HSDPA Subtest-3	21.87	21.94	21.87
	HSDPA Subtest-4	21.85	21.93	21.85
	HSUPA Subtest-1	22.58	22.53	22.42
	HSUPA Subtest-2	21.52	21.25	21.6
	HSUPA Subtest-3	21.42	20.94	21.6
	HSUPA Subtest-4	21.47	21.38	21.66
	HSUPA Subtest-5	22.5	22.57	22.76
Modulation	Band	WCDMA Band II		
	Tx Channel	9262CH	9400CH	9538CH
	Frequency	1852.4MHz	1880MHz	1907.6MHz
QPSK (EIRP)	RMC 12.2K	25.05	25.18	25.17
	RMC 64K	25.04	25.15	25.14
	RMC 144K	25.04	25.19	25.17
	RMC 384K	25.03	25.15	25.33
	HSDPA Subtest-1	23.94	24.06	24
	HSDPA Subtest-2	23.89	24.04	23.95
	HSDPA Subtest-3	23.47	23.54	23.47
	HSDPA Subtest-4	23.45	23.53	23.45
	HSUPA Subtest-1	24.18	24.13	24.02
	HSUPA Subtest-2	23.12	22.85	23.2
	HSUPA Subtest-3	23.02	22.54	23.2
	HSUPA Subtest-4	23.07	22.98	23.26
	HSUPA Subtest-5	24.1	24.17	24.36

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18607CH	18900CH	19193CH
				1850.7MHz	1880MHz	1909.3MHz
2 / 1.4MHz (conducted)	QPSK	1	0	22.39	21.96	22.19
		1	2	22.35	22.22	22.14
		1	5	22.43	22.13	22.11
		3	0	22.41	22.03	22.20
		3	1	22.39	22.14	22.17
		3	2	22.35	22.08	22.17
		6	0	21.34	21.09	21.17
	16QAM	1	0	21.36	21.23	20.75
		1	2	21.95	21.42	20.99
		1	5	21.43	21.18	21.00
		3	0	21.72	21.23	20.88
		3	1	21.64	21.28	20.86
		3	2	21.63	21.24	20.94
		6	0	20.65	20.25	20.09
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18607CH	18900CH	19193CH
				1850.7MHz	1880MHz	1909.3MHz
2 / 1.4MHz (EIRP)	QPSK	1	0	23.99	23.56	23.79
		1	2	23.95	23.82	23.74
		1	5	24.03	23.73	23.71
		3	0	24.01	23.63	23.8
		3	1	23.99	23.74	23.77
		3	2	23.95	23.68	23.77
		6	0	22.94	22.69	22.77
	16QAM	1	0	22.96	22.83	22.35
		1	2	23.55	23.02	22.59
		1	5	23.03	22.78	22.6
		3	0	23.32	22.83	22.48
		3	1	23.24	22.88	22.46
		3	2	23.23	22.84	22.54
		6	0	22.25	21.85	21.69

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18615CH	18900CH	19185CH
				1851.5MHz	1880MHz	1908.5MHz
2 / 3MHz (conducted)	QPSK	1	0	22.50	22.21	22.43
		1	7	22.53	21.82	22.08
		1	14	22.52	21.89	22.07
		8	0	21.29	21.14	21.18
		8	4	21.50	21.13	21.24
		8	7	21.39	21.06	21.22
		15	0	21.37	21.22	21.20
	16QAM	1	0	21.63	20.99	21.46
		1	7	21.94	21.06	21.26
		1	14	22.43	20.94	20.80
		8	0	20.48	20.21	20.03
		8	4	20.53	20.18	20.04
		8	7	20.66	20.16	20.01
		15	0	20.37	20.21	19.96
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18615CH	18900CH	19185CH
				1851.5MHz	1880MHz	1908.5MHz
2 / 3MHz (EIRP)	QPSK	1	0	24.1	23.81	24.03
		1	7	24.13	23.42	23.68
		1	14	24.12	23.49	23.67
		8	0	22.89	22.74	22.78
		8	4	23.1	22.73	22.84
		8	7	22.99	22.66	22.82
		15	0	22.97	22.82	22.8
	16QAM	1	0	23.23	22.59	23.06
		1	7	23.54	22.66	22.86
		1	14	24.03	22.54	22.4
		8	0	22.08	21.81	21.63
		8	4	22.13	21.78	21.64
		8	7	22.26	21.76	21.61
		15	0	21.97	21.81	21.56

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18625CH	18900CH	19175CH
				1852.5MHz	1880MHz	1907.5MHz
2 / 5MHz (conducted)	QPSK	1	0	22.33	21.92	22.17
		1	13	22.28	21.99	21.97
		1	24	22.46	21.90	22.16
		12	0	21.45	21.28	21.04
		12	6	21.46	21.11	21.22
		12	11	21.39	21.13	21.24
		25	0	21.36	21.21	21.13
	16QAM	1	0	20.74	21.09	21.15
		1	13	21.13	20.65	20.86
		1	24	20.95	20.65	20.75
		12	0	20.29	20.11	20.00
		12	6	20.18	20.09	19.98
		12	11	20.12	20.11	20.08
		25	0	20.44	20.33	20.07
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18625CH	18900CH	19175CH
				1852.5MHz	1880MHz	1907.5MHz
2 / 5MHz (EIRP)	QPSK	1	0	23.93	23.52	23.77
		1	13	23.88	23.59	23.57
		1	24	24.06	23.5	23.76
		12	0	23.05	22.88	22.64
		12	6	23.06	22.71	22.82
		12	11	22.99	22.73	22.84
		25	0	22.96	22.81	22.73
	16QAM	1	0	22.34	22.69	22.75
		1	13	22.73	22.25	22.46
		1	24	22.55	22.25	22.35
		12	0	21.89	21.71	21.6
		12	6	21.78	21.69	21.58
		12	11	21.72	21.71	21.68
		25	0	22.04	21.93	21.67

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18650CH	18900CH	19150CH
				1855MHz	1880MHz	1905MHz
2 / 10MHz (conducted)	QPSK	1	0	22.42	22.52	22.37
		1	25	22.57	22.02	22.13
		1	49	23.02	22.04	22.33
		25	0	21.29	21.25	20.99
		25	13	21.36	21.11	21.07
		25	25	21.39	21.14	21.05
		50	0	21.36	21.14	20.96
	16QAM	1	0	21.73	21.30	21.64
		1	25	22.00	20.46	21.47
		1	49	22.18	20.56	21.03
		25	0	20.22	20.48	19.93
		25	13	20.33	20.31	19.92
		25	25	20.54	20.25	19.86
		50	0	20.48	20.35	19.97
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18650CH	18900CH	19150CH
				1855MHz	1880MHz	1905MHz
2 / 10MHz (EIRP)	QPSK	1	0	24.02	24.12	23.97
		1	25	24.17	23.62	23.73
		1	49	24.62	23.64	23.93
		25	0	22.89	22.85	22.59
		25	13	22.96	22.71	22.67
		25	25	22.99	22.74	22.65
		50	0	22.96	22.74	22.56
	16QAM	1	0	23.33	22.9	23.24
		1	25	23.6	22.06	23.07
		1	49	23.78	22.16	22.63
		25	0	21.82	22.08	21.53
		25	13	21.93	21.91	21.52
		25	25	22.14	21.85	21.46
		50	0	22.08	21.95	21.57

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18675CH	18900CH	19125CH
				1857.5MHz	1880MHz	1902.5MHz
2 / 15MHz (conducted)	QPSK	1	0	22.90	22.10	21.92
		1	38	22.83	21.95	21.88
		1	74	22.74	22.01	22.11
		36	0	21.23	21.08	20.98
		36	18	21.41	21.08	21.06
		36	39	21.49	21.07	20.93
		75	0	21.36	21.19	20.95
	16QAM	1	0	22.06	21.19	21.45
		1	38	22.36	21.02	21.46
		1	74	22.63	20.89	21.14
		36	0	20.23	20.29	19.78
		36	18	20.36	20.11	19.89
		36	39	20.41	20.03	19.96
		75	0	20.36	20.15	19.92
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18675CH	18900CH	19125CH
				1857.5MHz	1880MHz	1902.5MHz
2 / 15MHz (EIRP)	QPSK	1	0	24.5	23.7	23.52
		1	38	24.43	23.55	23.48
		1	74	24.34	23.61	23.71
		36	0	22.83	22.68	22.58
		36	18	23.01	22.68	22.66
		36	39	23.09	22.67	22.53
		75	0	22.96	22.79	22.55
	16QAM	1	0	23.66	22.79	23.05
		1	38	23.96	22.62	23.06
		1	74	24.23	22.49	22.74
		36	0	21.83	21.89	21.38
		36	18	21.96	21.71	21.49
		36	39	22.01	21.63	21.56
		75	0	21.96	21.75	21.52

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18700CH	18900CH	19100CH
				1860MHz	1880MHz	1900MHz
2 / 20MHz (conducted)	QPSK	1	0	22.24	22.41	21.76
		1	50	22.53	21.96	22.33
		1	99	22.01	22.03	22.22
		50	0	21.45	21.15	21.05
		50	25	21.52	21.15	21.05
		50	50	21.52	20.95	21.03
		100	0	21.43	21.10	21.05
	16QAM	1	0	21.01	21.14	20.58
		1	50	21.30	20.89	20.98
		1	99	20.81	20.76	20.89
		50	0	20.25	20.13	19.90
		50	25	20.48	20.13	19.94
		50	50	20.40	19.96	19.95
		100	0	20.34	20.19	19.92
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18700CH	18900CH	19100CH
				1860MHz	1880MHz	1900MHz
2 / 20MHz (EIRP)	QPSK	1	0	23.84	24.01	23.36
		1	50	24.13	23.56	23.93
		1	99	23.61	23.63	23.82
		50	0	23.05	22.75	22.65
		50	25	23.12	22.75	22.65
		50	50	23.12	22.55	22.63
		100	0	23.03	22.7	22.65
	16QAM	1	0	22.61	22.74	22.18
		1	50	22.9	22.49	22.58
		1	99	22.41	22.36	22.49
		50	0	21.85	21.73	21.5
		50	25	22.08	21.73	21.54
		50	50	22	21.56	21.55
		100	0	21.94	21.79	21.52

GSM850		128CH	190CH	251CH
		824.2MHz	836.6MHz	848.8MHz
GSM (CS)		31.7	31.70	31.72
GPRS/EDGE (GMSK) (conducted)	1 Tx Slot	31.69	31.54	31.52
	2 Tx Slot	29.17	29.05	28.81
	3 Tx Slot	27.9	27.79	27.70
	4 Tx Slot	26.63	26.69	26.60
EDGE (8PSK) (conducted)	1 Tx Slot	26.37	26.00	25.66
	2 Tx Slot	26.71	26.06	26.07
	3 Tx Slot	26.38	25.69	25.73
	4 Tx Slot	25.87	25.34	25.60
GSM850		128CH	190CH	251CH
		824.2MHz	836.6MHz	848.8MHz
GSM (CS)		30.95	30.95	30.97
GPRS/EDGE (GMSK) (ERP)	1 Tx Slot	30.94	30.79	30.77
	2 Tx Slot	28.42	28.3	28.06
	3 Tx Slot	27.15	27.04	26.95
	4 Tx Slot	25.88	25.94	25.85
EDGE (8PSK) (ERP)	1 Tx Slot	25.62	25.25	24.91
	2 Tx Slot	25.96	25.31	25.32
	3 Tx Slot	25.63	24.94	24.98
	4 Tx Slot	25.12	24.59	24.85

Modulation	Band	WCDMA Band V		
	Tx Channel	4132CH	4182CH	4233CH
	Frequency	826.4MHz	836.4MHz	846.6MHz
QPSK (conducted)	RMC 12.2K	23.52	23.57	23.78
	RMC 64K	23.52	23.58	23.75
	RMC 144K	23.53	23.59	23.78
	RMC 384K	23.49	23.58	23.75
	HSDPA Subtest-1	22.54	22.58	22.81
	HSDPA Subtest-2	22.54	22.63	22.81
	HSDPA Subtest-3	22.04	22.15	22.34
	HSDPA Subtest-4	22.12	22.15	22.32
	HSUPA Subtest-1	22.59	22.45	22.77
	HSUPA Subtest-2	21.12	21.1	21.68
	HSUPA Subtest-3	20.72	21.56	21.32
	HSUPA Subtest-4	21.65	21.63	22.13
	HSUPA Subtest-5	22.53	22.5	22.71
Modulation	Band	WCDMA Band V		
	Tx Channel	4132CH	4182CH	4233CH
	Frequency	826.4MHz	836.4MHz	846.6MHz
QPSK (ERP)	RMC 12.2K	22.77	22.82	23.03
	RMC 64K	22.77	22.83	23
	RMC 144K	22.78	22.84	23.03
	RMC 384K	22.74	22.83	23
	HSDPA Subtest-1	21.79	21.83	22.06
	HSDPA Subtest-2	21.79	21.88	22.06
	HSDPA Subtest-3	21.29	21.4	21.59
	HSDPA Subtest-4	21.37	21.4	21.57
	HSUPA Subtest-1	21.84	21.7	22.02
	HSUPA Subtest-2	20.37	20.35	20.93
	HSUPA Subtest-3	19.97	20.81	20.57
	HSUPA Subtest-4	20.9	20.88	21.38
	HSUPA Subtest-5	21.78	21.75	21.96

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20407CH	20525CH	20643CH
				824.7MHz	836.5MHz	848.3MHz
5 / 1.4MHz (conducted)	QPSK	1	0	22.34	22.32	22.38
		1	2	22.72	22.62	22.35
		1	5	22.56	22.42	22.41
		3	0	22.60	22.54	22.48
		3	1	22.77	22.56	22.53
		3	2	22.47	22.49	22.62
		6	0	21.54	21.45	21.59
	16QAM	1	0	21.51	21.71	21.35
		1	2	21.37	21.78	22.09
		1	5	21.21	21.28	21.76
		3	0	21.51	21.26	21.83
		3	1	21.84	21.32	21.80
		3	2	21.68	21.51	21.68
		6	0	20.56	20.60	20.83
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20407CH	20525CH	20643CH
				824.7MHz	836.5MHz	848.3MHz
5 / 1.4MHz (ERP)	QPSK	1	0	21.59	21.57	21.63
		1	2	21.97	21.87	21.6
		1	5	21.81	21.67	21.66
		3	0	21.85	21.79	21.73
		3	1	22.02	21.81	21.78
		3	2	21.72	21.74	21.87
		6	0	20.79	20.7	20.84
	16QAM	1	0	20.76	20.96	20.6
		1	2	20.62	21.03	21.34
		1	5	20.46	20.53	21.01
		3	0	20.76	20.51	21.08
		3	1	21.09	20.57	21.05
		3	2	20.93	20.76	20.93
		6	0	19.81	19.85	20.08

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20415CH	20525CH	20635CH
				825.5MHz	836.5MHz	847.5MHz
5 / 3MHz (conducted)	QPSK	1	0	22.90	22.52	22.56
		1	7	22.73	22.26	22.49
		1	14	22.72	22.51	22.43
		8	0	21.72	21.60	21.73
		8	4	21.59	21.67	21.60
		8	7	21.69	21.59	21.63
		15	0	21.74	21.61	21.66
	16QAM	1	0	22.26	21.74	21.95
		1	7	22.19	21.69	21.96
		1	14	21.99	21.54	21.92
		8	0	20.97	20.59	20.54
		8	4	21.03	20.61	20.60
		8	7	21.04	20.40	20.40
		15	0	20.83	20.76	20.74
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20415CH	20525CH	20635CH
				825.5MHz	836.5MHz	847.5MHz
5 / 3MHz (ERP)	QPSK	1	0	22.15	21.77	21.81
		1	7	21.98	21.51	21.74
		1	14	21.97	21.76	21.68
		8	0	20.97	20.85	20.98
		8	4	20.84	20.92	20.85
		8	7	20.94	20.84	20.88
		15	0	20.99	20.86	20.91
	16QAM	1	0	21.51	20.99	21.2
		1	7	21.44	20.94	21.21
		1	14	21.24	20.79	21.17
		8	0	20.22	19.84	19.79
		8	4	20.28	19.86	19.85
		8	7	20.29	19.65	19.65
		15	0	20.08	20.01	19.99

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20425CH	20525CH	20625CH
				826.5MHz	836.5MHz	846.5MHz
5 / 5MHz (conducted)	QPSK	1	0	22.68	22.24	22.44
		1	13	22.75	22.31	22.59
		1	24	22.52	22.35	22.57
		12	0	21.78	21.68	21.76
		12	6	21.74	21.69	21.67
		12	11	21.77	21.63	21.66
		25	0	21.74	21.63	21.72
	16QAM	1	0	21.77	21.77	22.00
		1	13	21.77	21.47	21.51
		1	24	21.61	21.57	21.93
		12	0	20.80	20.53	20.63
		12	6	20.94	20.71	20.67
		12	11	20.77	20.41	20.61
		25	0	20.95	20.71	20.64
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20425CH	20525CH	20625CH
				826.5MHz	836.5MHz	846.5MHz
5 / 5MHz (ERP)	QPSK	1	0	21.93	21.49	21.69
		1	13	22	21.56	21.84
		1	24	21.77	21.6	21.82
		12	0	21.03	20.93	21.01
		12	6	20.99	20.94	20.92
		12	11	21.02	20.88	20.91
		25	0	20.99	20.88	20.97
	16QAM	1	0	21.02	21.02	21.25
		1	13	21.02	20.72	20.76
		1	24	20.86	20.82	21.18
		12	0	20.05	19.78	19.88
		12	6	20.19	19.96	19.92
		12	11	20.02	19.66	19.86
		25	0	20.2	19.96	19.89

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20450CH	20525CH	20600CH
				829.0MHz	836.5MHz	844.0MHz
5 / 10MHz (conducted)	QPSK	1	0	22.43	22.52	22.59
		1	25	22.65	22.71	22.63
		1	49	22.81	22.70	22.43
		25	0	21.69	21.67	21.75
		25	13	21.60	21.76	21.69
		25	25	21.60	21.76	21.69
		50	0	21.63	21.65	21.71
	16QAM	1	0	22.05	21.40	21.75
		1	25	22.02	20.95	21.79
		1	49	21.86	21.55	21.85
		25	0	20.78	20.66	20.71
		25	13	20.70	20.75	20.67
		25	25	20.66	20.79	20.60
		50	0	20.69	20.59	20.67
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20450CH	20525CH	20600CH
				829.0MHz	836.5MHz	844.0MHz
5 / 10MHz (ERP)	QPSK	1	0	21.68	21.77	21.84
		1	25	21.9	21.96	21.88
		1	49	22.06	21.95	21.68
		25	0	20.94	20.92	21
		25	13	20.85	21.01	20.94
		25	25	20.85	21.01	20.94
		50	0	20.88	20.9	20.96
	16QAM	1	0	21.3	20.65	21
		1	25	21.27	20.2	21.04
		1	49	21.11	20.8	21.1
		25	0	20.03	19.91	19.96
		25	13	19.95	20	19.92
		25	25	19.91	20.04	19.85
		50	0	19.94	19.84	19.92

3.2.4 TEST RESULTS (PATCH ANTENNA)

Modulation	Band	WCDMA Band IV(conducted)		
	Tx Channel	1312CH	1413CH	1513CH
	Frequency	1712.4MHz	1732.6MHz	1752.6MHz
QPSK	RMC 12.2K	23.64	23.26	23.5
	RMC 64K	23.62	23.23	23.48
	RMC 144K	23.62	23.23	23.47
	RMC 384K	23.62	23.22	23.58
	HSDPA Subtest-1	22.39	22.08	22.28
	HSDPA Subtest-2	22.38	22.19	22.3
	HSDPA Subtest-3	21.86	21.69	21.81
	HSDPA Subtest-4	21.84	21.62	21.81
	HSUPA Subtest-1	21.55	22.16	22
	HSUPA Subtest-2	21.02	20.67	21.08
	HSUPA Subtest-3	21.22	20.28	21.26
	HSUPA Subtest-4	21.07	21.46	21.31
	HSUPA Subtest-5	22.34	22.11	22.26
Modulation	Band	WCDMA Band IV(EIRP)		
	Tx Channel	1312CH	1413CH	1513CH
	Frequency	1712.4MHz	1732.6MHz	1752.6MHz
QPSK	RMC 12.2K	22.2	21.82	22.06
	RMC 64K	22.18	21.79	22.04
	RMC 144K	22.18	21.79	22.03
	RMC 384K	22.18	21.78	22.14
	HSDPA Subtest-1	20.95	20.64	20.84
	HSDPA Subtest-2	20.94	20.75	20.86
	HSDPA Subtest-3	20.42	20.25	20.37
	HSDPA Subtest-4	20.4	20.18	20.37
	HSUPA Subtest-1	20.11	20.72	20.56
	HSUPA Subtest-2	19.58	19.23	19.64
	HSUPA Subtest-3	19.78	18.84	19.82
	HSUPA Subtest-4	19.63	20.02	19.87
	HSUPA Subtest-5	20.9	20.67	20.82

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19957CH	20175CH	20393CH
				1710.7MHz	1732.5MHz	1754.3MHz
4 / 1.4MHz (conducted)	QPSK	1	0	21.95	22.07	21.89
		1	2	21.98	22.07	22.07
		1	5	21.88	21.93	22.00
		3	0	21.92	22.12	22.01
		3	1	21.93	22.12	21.99
		3	2	21.96	22.07	22.04
		6	0	21.04	21.10	21.10
	16QAM	1	0	20.98	20.96	21.16
		1	2	21.36	20.40	21.02
		1	5	20.89	20.83	20.92
		3	0	21.11	20.75	20.63
		3	1	20.87	20.64	20.69
		3	2	20.97	20.98	20.69
		6	0	19.56	19.88	20.11
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19957CH	20175CH	20393CH
				1710.7MHz	1732.5MHz	1754.3MHz
4 / 1.4MHz (EIRP)	QPSK	1	0	20.51	20.63	20.45
		1	2	20.54	20.63	20.63
		1	5	20.44	20.49	20.56
		3	0	20.48	20.68	20.57
		3	1	20.49	20.68	20.55
		3	2	20.52	20.63	20.6
		6	0	19.6	19.66	19.66
	16QAM	1	0	19.54	19.52	19.72
		1	2	19.92	18.96	19.58
		1	5	19.45	19.39	19.48
		3	0	19.67	19.31	19.19
		3	1	19.43	19.2	19.25
		3	2	19.53	19.54	19.25
		6	0	18.12	18.44	18.67

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19965CH	20175CH	20385CH
				1711.5MHz	1732.5MHz	1753.5MHz
4 / 3MHz (conducted)	QPSK	1	0	22.14	21.90	21.90
		1	7	22.19	21.91	22.20
		1	14	21.96	21.98	22.15
		8	0	20.96	21.15	21.02
		8	4	20.97	21.04	21.03
		8	7	20.94	21.09	21.03
		15	0	20.85	21.16	20.99
	16QAM	1	0	21.35	20.78	21.35
		1	7	21.37	20.93	20.96
		1	14	21.44	20.86	21.41
		8	0	19.71	20.03	20.16
		8	4	19.74	20.08	20.19
		8	7	19.66	19.95	20.20
		15	0	19.84	19.98	20.13
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19965CH	20175CH	20385CH
				1711.5MHz	1732.5MHz	1753.5MHz
4 / 3MHz (EIRP)	QPSK	1	0	20.7	20.46	20.46
		1	7	20.75	20.47	20.76
		1	14	20.52	20.54	20.71
		8	0	19.52	19.71	19.58
		8	4	19.53	19.6	19.59
		8	7	19.5	19.65	19.59
		15	0	19.41	19.72	19.55
	16QAM	1	0	19.91	19.34	19.91
		1	7	19.93	19.49	19.52
		1	14	20	19.42	19.97
		8	0	18.27	18.59	18.72
		8	4	18.3	18.64	18.75
		8	7	18.22	18.51	18.76
		15	0	18.4	18.54	18.69

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19975CH	20175CH	20375CH
				1712.5MHz	1732.5MHz	1752.5MHz
4 / 5MHz (conducted)	QPSK	1	0	21.93	21.70	21.73
		1	13	21.74	21.54	21.92
		1	24	21.87	21.76	22.08
		12	0	20.96	21.08	21.07
		12	6	20.87	21.01	21.00
		12	11	20.92	21.07	21.21
		25	0	20.96	21.12	21.09
	16QAM	1	0	20.90	20.69	20.73
		1	13	20.70	20.53	20.22
		1	24	20.85	20.59	20.85
		12	0	19.96	19.84	19.77
		12	6	19.87	19.81	20.05
		12	11	19.93	19.78	20.19
		25	0	20.08	20.20	20.05
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19975CH	20175CH	20375CH
				1712.5MHz	1732.5MHz	1752.5MHz
4 / 5MHz (EIRP)	QPSK	1	0	20.49	20.26	20.29
		1	13	20.3	20.1	20.48
		1	24	20.43	20.32	20.64
		12	0	19.52	19.64	19.63
		12	6	19.43	19.57	19.56
		12	11	19.48	19.63	19.77
		25	0	19.52	19.68	19.65
	16QAM	1	0	19.46	19.25	19.29
		1	13	19.26	19.09	18.78
		1	24	19.41	19.15	19.41
		12	0	18.52	18.4	18.33
		12	6	18.43	18.37	18.61
		12	11	18.49	18.34	18.75
		25	0	18.64	18.76	18.61

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20000CH	20175CH	20350CH
				1715MHz	1732.5MHz	1750MHz
4 / 10MHz (conducted)	QPSK	1	0	22.03	22.07	21.72
		1	25	22.31	22.08	22.27
		1	49	22.13	22.07	22.37
		25	0	20.93	21.24	20.99
		25	13	21.07	21.12	21.07
		25	25	21.16	21.12	21.09
		50	0	21.03	21.05	21.00
	16QAM	1	0	21.62	20.86	21.25
		1	25	21.97	20.94	21.19
		1	49	21.70	20.83	21.29
		25	0	19.87	20.25	19.81
		25	13	19.92	20.19	19.99
		25	25	20.00	20.28	19.92
		50	0	19.84	20.05	19.94
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20000CH	20175CH	20350CH
				1715MHz	1732.5MHz	1750MHz
4 / 10MHz (EIRP)	QPSK	1	0	20.59	20.63	20.28
		1	25	20.87	20.64	20.83
		1	49	20.69	20.63	20.93
		25	0	19.49	19.8	19.55
		25	13	19.63	19.68	19.63
		25	25	19.72	19.68	19.65
		50	0	19.59	19.61	19.56
	16QAM	1	0	20.18	19.42	19.81
		1	25	20.53	19.5	19.75
		1	49	20.26	19.39	19.85
		25	0	18.43	18.81	18.37
		25	13	18.48	18.75	18.55
		25	25	18.56	18.84	18.48
		50	0	18.4	18.61	18.5

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20025CH	20175CH	20325CH
				1717.5MHz	1732.5MHz	1747.5MHz
4 / 15MHz (conducted)	QPSK	1	0	22.41	22.08	21.79
		1	38	22.35	21.90	22.00
		1	74	22.19	21.90	22.20
		36	0	21.10	21.06	20.84
		36	18	21.07	20.96	20.85
		36	39	21.00	20.99	20.97
		75	0	21.05	20.91	20.87
	16QAM	1	0	21.29	20.78	21.73
		1	38	21.41	20.73	21.47
		1	74	21.18	20.48	21.70
		36	0	19.90	20.08	19.91
		36	18	19.91	20.13	19.98
		36	39	19.76	20.14	20.15
		75	0	19.98	20.05	20.03
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20025CH	20175CH	20325CH
				1717.5MHz	1732.5MHz	1747.5MHz
4 / 15MHz (EIRP)	QPSK	1	0	20.97	20.64	20.35
		1	38	20.91	20.46	20.56
		1	74	20.75	20.46	20.76
		36	0	19.66	19.62	19.4
		36	18	19.63	19.52	19.41
		36	39	19.56	19.55	19.53
		75	0	19.61	19.47	19.43
	16QAM	1	0	19.85	19.34	20.29
		1	38	19.97	19.29	20.03
		1	74	19.74	19.04	20.26
		36	0	18.46	18.64	18.47
		36	18	18.47	18.69	18.54
		36	39	18.32	18.7	18.71
		75	0	18.54	18.61	18.59

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20050CH	20175CH	20300CH
				1720MHz	1732.5MHz	1740MHz
4 / 20MHz (conducted)	QPSK	1	0	21.57	21.86	21.80
		1	50	21.75	21.94	21.91
		1	99	21.59	21.93	22.18
		50	0	20.97	21.05	21.08
		50	25	20.94	20.95	20.90
		50	50	21.15	21.06	20.93
		100	0	20.95	21.07	20.88
	16QAM	1	0	20.86	21.06	21.08
		1	50	20.74	21.03	20.78
		1	99	20.80	20.70	20.99
		50	0	20.14	20.08	20.05
		50	25	20.05	20.09	20.06
		50	50	20.21	20.06	20.07
		100	0	20.09	20.20	20.07
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20050CH	20175CH	20300CH
				1720MHz	1732.5MHz	1740MHz
4 / 20MHz (EIRP)	QPSK	1	0	20.13	20.42	20.36
		1	50	20.31	20.5	20.47
		1	99	20.15	20.49	20.74
		50	0	19.53	19.61	19.64
		50	25	19.5	19.51	19.46
		50	50	19.71	19.62	19.49
		100	0	19.51	19.63	19.44
	16QAM	1	0	19.42	19.62	19.64
		1	50	19.3	19.59	19.34
		1	99	19.36	19.26	19.55
		50	0	18.7	18.64	18.61
		50	25	18.61	18.65	18.62
		50	50	18.77	18.62	18.63
		100	0	18.65	18.76	18.63

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20775CH	21100CH	21425CH
				2502.5MHz	2535MHz	2567.5MHz
7 / 5MHz (conducted)	QPSK	1	0	22.12	22.06	22.00
		1	13	22.10	22.06	21.92
		1	24	22.42	21.98	22.02
		12	0	21.56	21.33	21.16
		12	6	21.51	21.27	21.20
		12	11	21.48	21.27	21.14
		25	0	21.56	21.28	21.13
	16QAM	1	0	20.86	21.30	20.50
		1	13	20.92	21.19	20.83
		1	24	21.07	20.49	20.52
		12	0	20.45	20.15	19.81
		12	6	20.49	20.15	19.98
		12	11	20.32	20.20	20.02
		25	0	20.47	20.28	19.93
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20775CH	21100CH	21425CH
				2502.5MHz	2535MHz	2567.5MHz
7 / 5MHz (EIRP)	QPSK	1	0	19.94	19.88	19.82
		1	13	19.92	19.88	19.74
		1	24	20.24	19.8	19.84
		12	0	19.38	19.15	18.98
		12	6	19.33	19.09	19.02
		12	11	19.3	19.09	18.96
		25	0	19.38	19.1	18.95
	16QAM	1	0	18.68	19.12	18.32
		1	13	18.74	19.01	18.65
		1	24	18.89	18.31	18.34
		12	0	18.27	17.97	17.63
		12	6	18.31	17.97	17.8
		12	11	18.14	18.02	17.84
		25	0	18.29	18.1	17.75

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20800CH	21100CH	21400CH
				2505MHz	2535MHz	2565MHz
7 / 10MHz (conducted)	QPSK	1	0	22.89	22.43	22.26
		1	25	22.79	22.14	22.44
		1	49	22.51	22.21	22.06
		25	0	21.61	21.38	21.30
		25	13	21.49	21.33	21.15
		25	25	21.46	21.33	21.10
		50	0	21.59	21.30	21.26
	16QAM	1	0	21.94	21.11	21.34
		1	25	21.98	21.08	22.16
		1	49	21.82	20.23	21.01
		25	0	20.52	20.39	20.16
		25	13	20.44	20.39	20.20
		25	25	20.42	20.28	20.07
		50	0	20.56	20.16	20.06
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20800CH	21100CH	21400CH
				2505MHz	2535MHz	2565MHz
7 / 10MHz (EIRP)	QPSK	1	0	20.71	20.25	20.08
		1	25	20.61	19.96	20.26
		1	49	20.33	20.03	19.88
		25	0	19.43	19.2	19.12
		25	13	19.31	19.15	18.97
		25	25	19.28	19.15	18.92
		50	0	19.41	19.12	19.08
	16QAM	1	0	19.76	18.93	19.16
		1	25	19.8	18.9	19.98
		1	49	19.64	18.05	18.83
		25	0	18.34	18.21	17.98
		25	13	18.26	18.21	18.02
		25	25	18.24	18.1	17.89
		50	0	18.38	17.98	17.88

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20825CH	21100CH	21375CH
				2507.5MHz	2535MHz	2562.5MHz
7 / 15MHz (conducted)	QPSK	1	0	22.64	22.44	22.24
		1	38	22.69	21.98	22.29
		1	74	22.89	21.95	22.03
		36	0	21.38	21.25	21.21
		36	18	21.35	21.14	21.23
		36	39	21.57	21.12	21.07
		75	0	21.41	21.24	21.18
	16QAM	1	0	22.14	21.27	21.74
		1	38	21.63	20.04	21.99
		1	74	22.73	20.51	21.21
		36	0	20.34	20.22	20.20
		36	18	20.34	20.18	20.23
		36	39	20.40	20.08	20.00
		75	0	20.32	20.13	20.25
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20825CH	21100CH	21375CH
				2507.5MHz	2535MHz	2562.5MHz
7 / 15MHz (EIRP)	QPSK	1	0	20.46	20.26	20.06
		1	38	20.51	19.8	20.11
		1	74	20.71	19.77	19.85
		36	0	19.2	19.07	19.03
		36	18	19.17	18.96	19.05
		36	39	19.39	18.94	18.89
		75	0	19.23	19.06	19
	16QAM	1	0	19.96	19.09	19.56
		1	38	19.45	17.86	19.81
		1	74	20.55	18.33	19.03
		36	0	18.16	18.04	18.02
		36	18	18.16	18	18.05
		36	39	18.22	17.9	17.82
		75	0	18.14	17.95	18.07

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20850CH	21100CH	21350CH
				2510MHz	2535MHz	2560MHz
7 / 20MHz (conducted)	QPSK	1	0	21.98	22.36	22.17
		1	50	22.13	22.39	22.63
		1	99	22.24	21.94	21.94
		50	0	21.39	21.32	21.24
		50	25	21.51	21.20	21.22
		50	50	21.53	21.19	21.05
		100	0	21.41	21.32	21.19
	16QAM	1	0	21.58	21.43	20.80
		1	50	21.29	21.18	21.18
		1	99	21.37	20.53	20.75
		50	0	20.25	20.34	20.17
		50	25	20.56	20.05	20.06
		50	50	20.56	20.00	19.96
		100	0	20.30	20.23	20.07
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20850CH	21100CH	21350CH
				2510MHz	2535MHz	2560MHz
7 / 20MHz (EIRP)	QPSK	1	0	19.8	20.18	19.99
		1	50	19.95	20.21	20.45
		1	99	20.06	19.76	19.76
		50	0	19.21	19.14	19.06
		50	25	19.33	19.02	19.04
		50	50	19.35	19.01	18.87
		100	0	19.23	19.14	19.01
	16QAM	1	0	19.4	19.25	18.62
		1	50	19.11	19	19
		1	99	19.19	18.35	18.57
		50	0	18.07	18.16	17.99
		50	25	18.38	17.87	17.88
		50	50	18.38	17.82	17.78
		100	0	18.12	18.05	17.89

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23017CH	23095CH	23173CH
				699.7MHz	707.5MHz	715.3MHz
12 / 1.4MHz (conducted)	QPSK	1	0	22.49	22.61	22.33
		1	2	22.51	22.71	22.57
		1	5	22.33	22.46	22.50
		3	0	22.45	22.74	22.60
		3	1	22.66	22.77	22.77
		3	2	22.43	22.67	22.57
		6	0	21.42	21.67	21.58
	16QAM	1	0	21.37	21.59	21.58
		1	2	21.05	21.56	21.93
		1	5	20.76	21.49	21.44
		3	0	21.42	21.95	21.58
		3	1	21.59	22.07	21.52
		3	2	21.32	21.97	21.37
		6	0	20.49	20.61	20.51
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23017CH	23095CH	23173CH
				699.7MHz	707.5MHz	715.3MHz
12 / 1.4MHz (ERP)	QPSK	1	0	19.4	19.52	19.24
		1	2	19.42	19.62	19.48
		1	5	19.24	19.37	19.41
		3	0	19.36	19.65	19.51
		3	1	19.57	19.68	19.68
		3	2	19.34	19.58	19.48
		6	0	18.33	18.58	18.49
	16QAM	1	0	18.28	18.5	18.49
		1	2	17.96	18.47	18.84
		1	5	17.67	18.4	18.35
		3	0	18.33	18.86	18.49
		3	1	18.5	18.98	18.43
		3	2	18.23	18.88	18.28
		6	0	17.4	17.52	17.42

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23025CH	23095CH	23165CH
				700.5MHz	707.5MHz	714.5MHz
12 / 3MHz (conducted)	QPSK	1	0	22.47	22.72	22.91
		1	7	22.59	22.43	22.73
		1	14	22.40	22.60	22.63
		8	0	21.27	21.60	21.74
		8	4	21.37	21.57	21.70
		8	7	21.33	21.58	21.66
		15	0	21.25	21.63	21.65
	16QAM	1	0	21.89	21.66	22.11
		1	7	21.66	21.20	21.96
		1	14	22.23	21.54	21.66
		8	0	20.17	20.80	20.71
		8	4	20.20	20.70	20.62
		8	7	20.17	20.48	20.62
		15	0	20.34	20.66	20.39
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23025CH	23095CH	23165CH
				700.5MHz	707.5MHz	714.5MHz
12 / 3MHz (ERP)	QPSK	1	0	19.38	19.63	19.82
		1	7	19.5	19.34	19.64
		1	14	19.31	19.51	19.54
		8	0	18.18	18.51	18.65
		8	4	18.28	18.48	18.61
		8	7	18.24	18.49	18.57
		15	0	18.16	18.54	18.56
	16QAM	1	0	18.8	18.57	19.02
		1	7	18.57	18.11	18.87
		1	14	19.14	18.45	18.57
		8	0	17.08	17.71	17.62
		8	4	17.11	17.61	17.53
		8	7	17.08	17.39	17.53
		15	0	17.25	17.57	17.3

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23035CH	23095CH	23155CH
				701.5MHz	707.5MHz	713.5MHz
12 / 5MHz (conducted)	QPSK	1	0	22.16	22.56	22.30
		1	13	22.15	22.04	22.64
		1	24	22.66	22.35	22.39
		12	0	21.29	21.76	21.65
		12	6	21.35	21.58	21.69
		12	11	21.50	21.60	21.67
		25	0	21.49	21.69	21.65
	16QAM	1	0	21.36	21.87	21.51
		1	13	21.39	21.10	21.97
		1	24	21.36	21.47	21.89
		12	0	20.22	20.56	20.41
		12	6	20.25	20.34	20.60
		12	11	20.31	20.42	20.58
		25	0	20.59	20.65	20.63
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23035CH	23095CH	23155CH
				701.5MHz	707.5MHz	713.5MHz
12 / 5MHz (ERP)	QPSK	1	0	19.07	19.47	19.21
		1	13	19.06	18.95	19.55
		1	24	19.57	19.26	19.3
		12	0	18.2	18.67	18.56
		12	6	18.26	18.49	18.6
		12	11	18.41	18.51	18.58
		25	0	18.4	18.6	18.56
	16QAM	1	0	18.27	18.78	18.42
		1	13	18.3	18.01	18.88
		1	24	18.27	18.38	18.8
		12	0	17.13	17.47	17.32
		12	6	17.16	17.25	17.51
		12	11	17.22	17.33	17.49
		25	0	17.5	17.56	17.54

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23060CH	23095CH	23130CH
				704MHz	707.5MHz	711MHz
12 / 10MHz (conducted)	QPSK	1	0	22.34	22.47	22.46
		1	25	22.89	22.53	22.65
		1	49	22.68	22.78	22.74
		25	0	21.43	21.67	21.58
		25	13	21.62	21.62	21.67
		25	25	21.74	21.65	21.66
		50	0	21.64	21.67	21.60
	16QAM	1	0	21.65	21.39	21.37
		1	25	22.12	21.00	22.21
		1	49	22.08	21.29	21.54
		25	0	20.50	20.55	20.50
		25	13	20.62	20.54	20.64
		25	25	20.73	20.54	20.69
		50	0	20.55	20.50	20.49
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23060CH	23095CH	23130CH
				704MHz	707.5MHz	711MHz
12 / 10MHz (ERP)	QPSK	1	0	19.25	19.38	19.37
		1	25	19.8	19.44	19.56
		1	49	19.59	19.69	19.65
		25	0	18.34	18.58	18.49
		25	13	18.53	18.53	18.58
		25	25	18.65	18.56	18.57
		50	0	18.55	18.58	18.51
	16QAM	1	0	18.56	18.3	18.28
		1	25	19.03	17.91	19.12
		1	49	18.99	18.2	18.45
		25	0	17.41	17.46	17.41
		25	13	17.53	17.45	17.55
		25	25	17.64	17.45	17.6
		50	0	17.46	17.41	17.4

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23755CH	23790CH	23825CH
				706.5MHz	710MHz	713.5MHz
17 / 5MHz (conducted)	QPSK	1	0	23.23	22.53	22.60
		1	13	22.45	22.80	22.78
		1	24	22.41	22.90	22.33
		12	0	22.01	21.77	21.91
		12	6	21.89	21.74	21.92
		12	11	21.86	21.90	21.82
		25	0	21.88	21.90	21.89
	16QAM	1	0	22.19	21.72	21.63
		1	13	21.23	21.61	21.80
		1	24	21.41	22.16	21.19
		12	0	20.93	20.57	20.71
		12	6	20.88	20.77	20.83
		12	11	20.84	20.76	20.68
		25	0	20.81	20.82	20.89
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23755CH	23790CH	23825CH
				706.5MHz	710MHz	713.5MHz
17 / 5MHz (ERP)	QPSK	1	0	19.53	18.83	18.9
		1	13	18.75	19.1	19.08
		1	24	18.71	19.2	18.63
		12	0	18.31	18.07	18.21
		12	6	18.19	18.04	18.22
		12	11	18.16	18.2	18.12
		25	0	18.18	18.2	18.19
	16QAM	1	0	18.49	18.02	17.93
		1	13	17.53	17.91	18.1
		1	24	17.71	18.46	17.49
		12	0	17.23	16.87	17.01
		12	6	17.18	17.07	17.13
		12	11	17.14	17.06	16.98
		25	0	17.11	17.12	17.19

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23780CH	23790CH	23800CH
				709MHz	710MHz	711MHz
17 / 10MHz (conducted)	QPSK	1	0	23.11	22.93	22.68
		1	25	22.75	22.88	23.19
		1	49	23.35	22.71	22.86
		25	0	22.02	21.86	21.79
		25	13	21.91	21.85	22.06
		25	25	22.09	21.98	21.96
		50	0	22.13	21.96	21.77
	16QAM	1	0	22.24	21.71	21.79
		1	25	22.27	21.66	21.69
		1	49	22.23	21.78	22.04
		25	0	20.87	20.76	20.97
		25	13	20.81	20.77	20.91
		25	25	20.94	20.86	21.07
		50	0	20.71	20.69	20.60
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23780CH	23790CH	23800CH
				709MHz	710MHz	711MHz
17 / 10MHz (ERP)	QPSK	1	0	19.41	19.23	18.98
		1	25	19.05	19.18	19.49
		1	49	19.65	19.01	19.16
		25	0	18.32	18.16	18.09
		25	13	18.21	18.15	18.36
		25	25	18.39	18.28	18.26
		50	0	18.43	18.26	18.07
	16QAM	1	0	18.54	18.01	18.09
		1	25	18.57	17.96	17.99
		1	49	18.53	18.08	18.34
		25	0	17.17	17.06	17.27
		25	13	17.11	17.07	17.21
		25	25	17.24	17.16	17.37
		50	0	17.01	16.99	16.9

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				37775CH	38000CH	38225CH
				2572.5MHz	2595MHz	2617.5MHz
38 / 5MHz (conducted)	QPSK	1	0	21.33	21.58	21.18
		1	13	21.58	21.75	21.26
		1	24	21.29	21.63	20.96
		12	0	20.73	20.77	20.46
		12	6	20.84	20.82	20.44
		12	11	20.77	20.77	20.42
		25	0	20.81	20.84	20.46
	16QAM	1	0	20.13	20.13	20.07
		1	13	20.43	20.47	19.98
		1	24	20.17	20.52	19.73
		12	0	19.60	19.45	19.49
		12	6	19.90	19.72	19.50
		12	11	19.59	19.87	19.36
		25	0	19.51	19.70	19.25
LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				37775CH	38000CH	38225CH
				2572.5MHz	2595MHz	2617.5MHz
38 / 5MHz (EIRP)	QPSK	1	0	19.11	19.36	18.96
		1	13	19.36	19.53	19.04
		1	24	19.07	19.41	18.74
		12	0	18.51	18.55	18.24
		12	6	18.62	18.6	18.22
		12	11	18.55	18.55	18.2
		25	0	18.59	18.62	18.24
	16QAM	1	0	17.91	17.91	17.85
		1	13	18.21	18.25	17.76
		1	24	17.95	18.3	17.51
		12	0	17.38	17.23	17.27
		12	6	17.68	17.5	17.28
		12	11	17.37	17.65	17.14
		25	0	17.29	17.48	17.03

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37800CH	38000CH	38200CH
				2575MHz	2595MHz	2615MHz
38 / 10MHz (conducted)	QPSK	1	0	21.64	21.42	21.38
		1	25	21.78	21.59	21.61
		1	49	21.64	21.66	21.41
		25	0	20.72	20.69	20.44
		25	13	20.75	20.79	20.63
		25	25	20.73	20.76	20.45
		50	0	20.76	20.66	20.40
	16QAM	1	0	21.11	19.78	20.71
		1	25	21.38	20.27	21.25
		1	49	21.10	20.28	20.91
		25	0	19.79	19.61	19.26
		25	13	19.81	19.62	19.43
		25	25	19.76	19.58	19.38
		50	0	19.54	19.66	19.33
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37800CH	38000CH	38200CH
				2575MHz	2595MHz	2615MHz
38 / 10MHz (EIRP)	QPSK	1	0	19.42	19.2	19.16
		1	25	19.56	19.37	19.39
		1	49	19.42	19.44	19.19
		25	0	18.5	18.47	18.22
		25	13	18.53	18.57	18.41
		25	25	18.51	18.54	18.23
		50	0	18.54	18.44	18.18
	16QAM	1	0	18.89	17.56	18.49
		1	25	19.16	18.05	19.03
		1	49	18.88	18.06	18.69
		25	0	17.57	17.39	17.04
		25	13	17.59	17.4	17.21
		25	25	17.54	17.36	17.16
		50	0	17.32	17.44	17.11

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37825CH	38000CH	38175CH
				2577.5MHz	2595MHz	2612.5MHz
38 / 15MHz (conducted)	QPSK	1	0	21.52	21.42	21.48
		1	38	21.65	21.54	21.31
		1	74	21.60	21.56	21.21
		36	0	20.82	20.62	20.41
		36	18	20.86	20.75	20.44
		36	39	20.73	20.80	20.36
		75	0	20.60	20.72	20.49
	16QAM	1	0	21.33	19.93	20.36
		1	38	21.24	20.29	20.54
		1	74	21.36	20.01	20.07
		36	0	19.66	19.74	19.39
		36	18	19.63	19.73	19.17
		36	39	19.64	19.75	19.44
		75	0	19.88	19.68	19.38
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37825CH	38000CH	38175CH
				2577.5MHz	2595MHz	2612.5MHz
38 / 15MHz (EIRP)	QPSK	1	0	19.3	19.2	19.26
		1	38	19.43	19.32	19.09
		1	74	19.38	19.34	18.99
		36	0	18.6	18.4	18.19
		36	18	18.64	18.53	18.22
		36	39	18.51	18.58	18.14
		75	0	18.38	18.5	18.27
	16QAM	1	0	19.11	17.71	18.14
		1	38	19.02	18.07	18.32
		1	74	19.14	17.79	17.85
		36	0	17.44	17.52	17.17
		36	18	17.41	17.51	16.95
		36	39	17.42	17.53	17.22
		75	0	17.66	17.46	17.16

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				37850CH	38000CH	38150CH
				2580MHz	2595MHz	2610MHz
38 / 20MHz (conducted)	QPSK	1	0	21.28	21.53	21.57
		1	50	21.67	21.91	21.58
		1	99	21.37	21.61	21.48
		50	0	20.79	20.69	20.59
		50	25	20.75	20.88	20.44
		50	50	20.80	20.70	20.25
		100	0	20.81	20.74	20.54
	16QAM	1	0	20.14	19.42	20.87
		1	50	20.64	19.95	20.69
		1	99	20.15	19.79	20.09
		50	0	19.72	19.59	19.42
		50	25	19.76	19.70	19.30
		50	50	19.70	19.66	19.30
		100	0	19.64	19.64	19.49
LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				37850CH	38000CH	38150CH
				2580MHz	2595MHz	2610MHz
38 / 20MHz (EIRP)	QPSK	1	0	19.06	19.31	19.35
		1	50	19.45	19.69	19.36
		1	99	19.15	19.39	19.26
		50	0	18.57	18.47	18.37
		50	25	18.53	18.66	18.22
		50	50	18.58	18.48	18.03
		100	0	18.59	18.52	18.32
	16QAM	1	0	17.92	17.2	18.65
		1	50	18.42	17.73	18.47
		1	99	17.93	17.57	17.87
		50	0	17.5	17.37	17.2
		50	25	17.54	17.48	17.08
		50	50	17.48	17.44	17.08
		100	0	17.42	17.42	17.27

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				131979CH	132322CH	132665CH
				1710.7MHz	1745MHz	1779.3MHz
66 / 1.4MHz (conducted)	QPSK	1	0	22.23	21.86	22.24
		1	2	22.26	21.91	22.55
		1	5	22.23	21.85	22.43
		3	0	22.31	22.02	22.36
		3	1	22.35	22.14	22.47
		3	2	22.46	22.08	22.41
		6	0	21.34	21.20	21.44
	16QAM	1	0	21.73	21.26	21.49
		1	2	22.09	21.34	21.60
		1	5	21.68	21.11	21.30
		3	0	21.59	20.91	21.36
		3	1	21.44	20.78	21.22
		3	2	21.75	20.88	21.14
		6	0	20.48	19.83	20.56
LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				131979CH	132322CH	132665CH
				1710.7MHz	1745MHz	1779.3MHz
66 / 1.4MHz (EIRP)	QPSK	1	0	20.79	20.42	20.8
		1	2	20.82	20.47	21.11
		1	5	20.79	20.41	20.99
		3	0	20.87	20.58	20.92
		3	1	20.91	20.7	21.03
		3	2	21.02	20.64	20.97
		6	0	19.9	19.76	20
	16QAM	1	0	20.29	19.82	20.05
		1	2	20.65	19.9	20.16
		1	5	20.24	19.67	19.86
		3	0	20.15	19.47	19.92
		3	1	20	19.34	19.78
		3	2	20.31	19.44	19.7
		6	0	19.04	18.39	19.12

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				131987CH	132322CH	132657CH
				1711.5MHz	1745MHz	1778.5MHz
66 / 3MHz (conducted)	QPSK	1	0	22.51	22.08	22.63
		1	7	22.54	21.84	22.76
		1	14	22.71	21.92	22.34
		8	0	21.40	21.05	21.35
		8	4	21.47	21.07	21.47
		8	7	21.41	21.04	21.46
		15	0	21.34	21.03	21.49
	16QAM	1	0	21.45	21.24	21.12
		1	7	21.66	21.09	21.37
		1	14	21.56	21.27	21.54
		8	0	20.37	20.15	20.25
		8	4	20.23	20.20	20.32
		8	7	20.19	20.25	20.27
		15	0	20.37	20.19	20.21
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				131987CH	132322CH	132657CH
				1711.5MHz	1745MHz	1778.5MHz
66 / 3MHz (EIRP)	QPSK	1	0	21.07	20.64	21.19
		1	7	21.1	20.4	21.32
		1	14	21.27	20.48	20.9
		8	0	19.96	19.61	19.91
		8	4	20.03	19.63	20.03
		8	7	19.97	19.6	20.02
		15	0	19.9	19.59	20.05
	16QAM	1	0	20.01	19.8	19.68
		1	7	20.22	19.65	19.93
		1	14	20.12	19.83	20.1
		8	0	18.93	18.71	18.81
		8	4	18.79	18.76	18.88
		8	7	18.75	18.81	18.83
		15	0	18.93	18.75	18.77

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				131997CH	132322CH	132647CH
				1712.5MHz	1745MHz	1777.5MHz
66 / 5MHz (conducted)	QPSK	1	0	22.11	21.90	22.18
		1	13	22.29	21.98	22.04
		1	24	22.31	22.10	22.12
		12	0	21.42	21.06	21.44
		12	6	21.42	21.15	21.49
		12	11	21.50	21.14	21.43
		25	0	21.41	21.07	21.49
	16QAM	1	0	21.31	21.25	21.36
		1	13	21.35	21.07	21.16
		1	24	21.38	21.20	20.91
		12	0	20.38	19.99	20.42
		12	6	20.37	20.02	20.56
		12	11	20.27	20.21	20.49
		25	0	20.54	20.13	20.64
LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				131997CH	132322CH	132647CH
				1712.5MHz	1745MHz	1777.5MHz
66 / 5MHz (EIRP)	QPSK	1	0	20.67	20.46	20.74
		1	13	20.85	20.54	20.6
		1	24	20.87	20.66	20.68
		12	0	19.98	19.62	20
		12	6	19.98	19.71	20.05
		12	11	20.06	19.7	19.99
		25	0	19.97	19.63	20.05
	16QAM	1	0	19.87	19.81	19.92
		1	13	19.91	19.63	19.72
		1	24	19.94	19.76	19.47
		12	0	18.94	18.55	18.98
		12	6	18.93	18.58	19.12
		12	11	18.83	18.77	19.05
		25	0	19.1	18.69	19.2

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132022CH	132322CH	132622CH
				1715MHz	1745MHz	1775MHz
66 / 10MHz (conducted)	QPSK	1	0	22.21	22.66	22.33
		1	25	22.64	22.38	22.40
		1	49	22.53	22.46	22.32
		25	0	21.38	21.23	21.48
		25	13	21.51	21.14	21.46
		25	25	21.47	21.19	21.45
		50	0	21.43	21.13	21.46
	16QAM	1	0	21.56	21.44	21.19
		1	25	21.58	20.92	21.16
		1	49	21.42	20.82	21.18
		25	0	20.36	20.41	20.55
		25	13	20.39	20.22	20.41
		25	25	20.44	20.22	20.51
		50	0	20.41	20.12	20.55
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132022CH	132322CH	132622CH
				1715MHz	1745MHz	1775MHz
66 / 10MHz (EIRP)	QPSK	1	0	20.77	21.22	20.89
		1	25	21.2	20.94	20.96
		1	49	21.09	21.02	20.88
		25	0	19.94	19.79	20.04
		25	13	20.07	19.7	20.02
		25	25	20.03	19.75	20.01
		50	0	19.99	19.69	20.02
	16QAM	1	0	20.12	20	19.75
		1	25	20.14	19.48	19.72
		1	49	19.98	19.38	19.74
		25	0	18.92	18.97	19.11
		25	13	18.95	18.78	18.97
		25	25	19	18.78	19.07
		50	0	18.97	18.68	19.11

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132047CH	132322CH	132597CH
				1717.5MHz	1745MHz	1772.5MHz
66 / 15MHz (conducted)	QPSK	1	0	22.85	22.23	22.24
		1	38	22.95	22.15	22.30
		1	74	22.56	22.34	22.34
		36	0	21.46	21.44	21.50
		36	18	21.40	21.23	21.36
		36	39	21.51	21.28	21.50
		75	0	21.51	21.29	21.47
	16QAM	1	0	21.47	21.22	22.25
		1	38	21.41	21.22	21.73
		1	74	21.08	21.42	21.70
		36	0	20.42	20.32	20.20
		36	18	20.38	20.34	20.21
		36	39	20.40	20.37	20.25
		75	0	20.40	20.27	20.46
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132047CH	132322CH	132597CH
				1717.5MHz	1745MHz	1772.5MHz
66 / 15MHz (EIRP)	QPSK	1	0	21.41	20.79	20.8
		1	38	21.51	20.71	20.86
		1	74	21.12	20.9	20.9
		36	0	20.02	20	20.06
		36	18	19.96	19.79	19.92
		36	39	20.07	19.84	20.06
		75	0	20.07	19.85	20.03
	16QAM	1	0	20.03	19.78	20.81
		1	38	19.97	19.78	20.29
		1	74	19.64	19.98	20.26
		36	0	18.98	18.88	18.76
		36	18	18.94	18.9	18.77
		36	39	18.96	18.93	18.81
		75	0	18.96	18.83	19.02

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132072CH	132322CH	132572CH
				1720MHz	1745MHz	1770MHz
66 / 20MHz (conducted)	QPSK	1	0	22.38	22.42	22.29
		1	50	22.36	22.60	22.44
		1	99	21.81	22.53	22.12
		50	0	21.34	21.39	21.49
		50	25	21.29	21.26	21.44
		50	50	21.38	21.30	21.52
		100	0	21.51	21.28	21.49
	16QAM	1	0	21.31	21.18	21.68
		1	50	21.84	21.11	21.56
		1	99	21.09	21.27	21.00
		50	0	20.44	20.20	20.35
		50	25	20.36	20.37	20.38
		50	50	20.27	20.41	20.26
		100	0	20.38	20.16	20.41
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132072CH	132322CH	132572CH
				1720MHz	1745MHz	1770MHz
66 / 20MHz (EIRP)	QPSK	1	0	20.94	20.98	20.85
		1	50	20.92	21.16	21
		1	99	20.37	21.09	20.68
		50	0	19.9	19.95	20.05
		50	25	19.85	19.82	20
		50	50	19.94	19.86	20.08
		100	0	20.07	19.84	20.05
	16QAM	1	0	19.87	19.74	20.24
		1	50	20.4	19.67	20.12
		1	99	19.65	19.83	19.56
		50	0	19	18.76	18.91
		50	25	18.92	18.93	18.94
		50	50	18.83	18.97	18.82
		100	0	18.94	18.72	18.97

PCS1900		512CH	661CH	810CH
		1850.2MHz	1880MHz	1909.8MHz
GSM (CS)		28.35	28.20	28.25
GPRS/EDGE (GMSK) (conducted)	1 Tx Slot	27.95	27.89	27.94
	2 Tx Slot	25.42	25.46	25.48
	3 Tx Slot	24.33	24.32	24.38
	4 Tx Slot	22.66	22.67	22.82
EDGE (8PSK) (conducted)	1 Tx Slot	23.7	23.98	24.12
	2 Tx Slot	21.7	21.66	21.42
	3 Tx Slot	20.4	20.45	20.62
	4 Tx Slot	18.51	18.46	18.15
PCS1900		512CH	661CH	810CH
		1850.2MHz	1880MHz	1909.8MHz
GSM (CS)		28.29	28.14	28.19
GPRS/EDGE (GMSK) (EIRP)	1 Tx Slot	27.89	27.83	27.88
	2 Tx Slot	25.36	25.4	25.42
	3 Tx Slot	24.27	24.26	24.32
	4 Tx Slot	22.6	22.61	22.76
EDGE (8PSK) (EIRP)	1 Tx Slot	23.64	23.92	24.06
	2 Tx Slot	21.64	21.6	21.36
	3 Tx Slot	20.34	20.39	20.56
	4 Tx Slot	18.45	18.4	18.09

Modulation	Band	WCDMA Band II		
	Tx Channel	9262CH	9400CH	9538CH
	Frequency	1852.4MHz	1880MHz	1907.6MHz
QPSK (conducted)	RMC 12.2K	23.45	23.58	23.57
	RMC 64K	23.44	23.55	23.54
	RMC 144K	23.44	23.59	23.57
	RMC 384K	23.43	23.55	23.73
	HSDPA Subtest-1	22.34	22.46	22.4
	HSDPA Subtest-2	22.29	22.44	22.35
	HSDPA Subtest-3	21.87	21.94	21.87
	HSDPA Subtest-4	21.85	21.93	21.85
	HSUPA Subtest-1	22.58	22.53	22.42
	HSUPA Subtest-2	21.52	21.25	21.6
	HSUPA Subtest-3	21.42	20.94	21.6
	HSUPA Subtest-4	21.47	21.38	21.66
	HSUPA Subtest-5	22.5	22.57	22.76
Modulation	Band	WCDMA Band II		
	Tx Channel	9262CH	9400CH	9538CH
	Frequency	1852.4MHz	1880MHz	1907.6MHz
QPSK (EIRP)	RMC 12.2K	23.39	23.52	23.51
	RMC 64K	23.38	23.49	23.48
	RMC 144K	23.38	23.53	23.51
	RMC 384K	23.37	23.49	23.67
	HSDPA Subtest-1	22.28	22.4	22.34
	HSDPA Subtest-2	22.23	22.38	22.29
	HSDPA Subtest-3	21.81	21.88	21.81
	HSDPA Subtest-4	21.79	21.87	21.79
	HSUPA Subtest-1	22.52	22.47	22.36
	HSUPA Subtest-2	21.46	21.19	21.54
	HSUPA Subtest-3	21.36	20.88	21.54
	HSUPA Subtest-4	21.41	21.32	21.6
	HSUPA Subtest-5	22.44	22.51	22.7

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18607CH	18900CH	19193CH
				1850.7MHz	1880MHz	1909.3MHz
2 / 1.4MHz (conducted)	QPSK	1	0	22.39	21.96	22.19
		1	2	22.35	22.22	22.14
		1	5	22.43	22.13	22.11
		3	0	22.41	22.03	22.20
		3	1	22.39	22.14	22.17
		3	2	22.35	22.08	22.17
		6	0	21.34	21.09	21.17
	16QAM	1	0	21.36	21.23	20.75
		1	2	21.95	21.42	20.99
		1	5	21.43	21.18	21.00
		3	0	21.72	21.23	20.88
		3	1	21.64	21.28	20.86
		3	2	21.63	21.24	20.94
		6	0	20.65	20.25	20.09
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18607CH	18900CH	19193CH
				1850.7MHz	1880MHz	1909.3MHz
2 / 1.4MHz (EIRP)	QPSK	1	0	22.33	21.9	22.13
		1	2	22.29	22.16	22.08
		1	5	22.37	22.07	22.05
		3	0	22.35	21.97	22.14
		3	1	22.33	22.08	22.11
		3	2	22.29	22.02	22.11
		6	0	21.28	21.03	21.11
	16QAM	1	0	21.3	21.17	20.69
		1	2	21.89	21.36	20.93
		1	5	21.37	21.12	20.94
		3	0	21.66	21.17	20.82
		3	1	21.58	21.22	20.8
		3	2	21.57	21.18	20.88
		6	0	20.59	20.19	20.03

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18615CH	18900CH	19185CH
				1851.5MHz	1880MHz	1908.5MHz
2 / 3MHz (conducted)	QPSK	1	0	22.50	22.21	22.43
		1	7	22.53	21.82	22.08
		1	14	22.52	21.89	22.07
		8	0	21.29	21.14	21.18
		8	4	21.50	21.13	21.24
		8	7	21.39	21.06	21.22
		15	0	21.37	21.22	21.20
	16QAM	1	0	21.63	20.99	21.46
		1	7	21.94	21.06	21.26
		1	14	22.43	20.94	20.80
		8	0	20.48	20.21	20.03
		8	4	20.53	20.18	20.04
		8	7	20.66	20.16	20.01
		15	0	20.37	20.21	19.96
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18615CH	18900CH	19185CH
				1851.5MHz	1880MHz	1908.5MHz
2 / 3MHz (EIRP)	QPSK	1	0	22.44	22.15	22.37
		1	7	22.47	21.76	22.02
		1	14	22.46	21.83	22.01
		8	0	21.23	21.08	21.12
		8	4	21.44	21.07	21.18
		8	7	21.33	21	21.16
		15	0	21.31	21.16	21.14
	16QAM	1	0	21.57	20.93	21.4
		1	7	21.88	21	21.2
		1	14	22.37	20.88	20.74
		8	0	20.42	20.15	19.97
		8	4	20.47	20.12	19.98
		8	7	20.6	20.1	19.95
		15	0	20.31	20.15	19.9

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18625CH	18900CH	19175CH
				1852.5MHz	1880MHz	1907.5MHz
2 / 5MHz (conducted)	QPSK	1	0	22.33	21.92	22.17
		1	13	22.28	21.99	21.97
		1	24	22.46	21.90	22.16
		12	0	21.45	21.28	21.04
		12	6	21.46	21.11	21.22
		12	11	21.39	21.13	21.24
		25	0	21.36	21.21	21.13
	16QAM	1	0	20.74	21.09	21.15
		1	13	21.13	20.65	20.86
		1	24	20.95	20.65	20.75
		12	0	20.29	20.11	20.00
		12	6	20.18	20.09	19.98
		12	11	20.12	20.11	20.08
		25	0	20.44	20.33	20.07
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18625CH	18900CH	19175CH
				1852.5MHz	1880MHz	1907.5MHz
2 / 5MHz (EIRP)	QPSK	1	0	22.27	21.86	22.11
		1	13	22.22	21.93	21.91
		1	24	22.4	21.84	22.1
		12	0	21.39	21.22	20.98
		12	6	21.4	21.05	21.16
		12	11	21.33	21.07	21.18
		25	0	21.3	21.15	21.07
	16QAM	1	0	20.68	21.03	21.09
		1	13	21.07	20.59	20.8
		1	24	20.89	20.59	20.69
		12	0	20.23	20.05	19.94
		12	6	20.12	20.03	19.92
		12	11	20.06	20.05	20.02
		25	0	20.38	20.27	20.01

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18650CH	18900CH	19150CH
				1855MHz	1880MHz	1905MHz
2 / 10MHz (conducted)	QPSK	1	0	22.42	22.52	22.37
		1	25	22.57	22.02	22.13
		1	49	23.02	22.04	22.33
		25	0	21.29	21.25	20.99
		25	13	21.36	21.11	21.07
		25	25	21.39	21.14	21.05
		50	0	21.36	21.14	20.96
	16QAM	1	0	21.73	21.30	21.64
		1	25	22.00	20.46	21.47
		1	49	22.18	20.56	21.03
		25	0	20.22	20.48	19.93
		25	13	20.33	20.31	19.92
		25	25	20.54	20.25	19.86
		50	0	20.48	20.35	19.97
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18650CH	18900CH	19150CH
				1855MHz	1880MHz	1905MHz
2 / 10MHz (EIRP)	QPSK	1	0	22.36	22.46	22.31
		1	25	22.51	21.96	22.07
		1	49	22.96	21.98	22.27
		25	0	21.23	21.19	20.93
		25	13	21.3	21.05	21.01
		25	25	21.33	21.08	20.99
		50	0	21.3	21.08	20.9
	16QAM	1	0	21.67	21.24	21.58
		1	25	21.94	20.4	21.41
		1	49	22.12	20.5	20.97
		25	0	20.16	20.42	19.87
		25	13	20.27	20.25	19.86
		25	25	20.48	20.19	19.8
		50	0	20.42	20.29	19.91

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18675CH	18900CH	19125CH
				1857.5MHz	1880MHz	1902.5MHz
2 / 15MHz (conducted)	QPSK	1	0	22.90	22.10	21.92
		1	38	22.83	21.95	21.88
		1	74	22.74	22.01	22.11
		36	0	21.23	21.08	20.98
		36	18	21.41	21.08	21.06
		36	39	21.49	21.07	20.93
		75	0	21.36	21.19	20.95
	16QAM	1	0	22.06	21.19	21.45
		1	38	22.36	21.02	21.46
		1	74	22.63	20.89	21.14
		36	0	20.23	20.29	19.78
		36	18	20.36	20.11	19.89
		36	39	20.41	20.03	19.96
		75	0	20.36	20.15	19.92
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18675CH	18900CH	19125CH
				1857.5MHz	1880MHz	1902.5MHz
2 / 15MHz (EIRP)	QPSK	1	0	22.84	22.04	21.86
		1	38	22.77	21.89	21.82
		1	74	22.68	21.95	22.05
		36	0	21.17	21.02	20.92
		36	18	21.35	21.02	21
		36	39	21.43	21.01	20.87
		75	0	21.3	21.13	20.89
	16QAM	1	0	22	21.13	21.39
		1	38	22.3	20.96	21.4
		1	74	22.57	20.83	21.08
		36	0	20.17	20.23	19.72
		36	18	20.3	20.05	19.83
		36	39	20.35	19.97	19.9
		75	0	20.3	20.09	19.86

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18700CH	18900CH	19100CH
				1860MHz	1880MHz	1900MHz
2 / 20MHz (conducted)	QPSK	1	0	22.24	22.41	21.76
		1	50	22.53	21.96	22.33
		1	99	22.01	22.03	22.22
		50	0	21.45	21.15	21.05
		50	25	21.52	21.15	21.05
		50	50	21.52	20.95	21.03
		100	0	21.43	21.10	21.05
	16QAM	1	0	21.01	21.14	20.58
		1	50	21.30	20.89	20.98
		1	99	20.81	20.76	20.89
		50	0	20.25	20.13	19.90
		50	25	20.48	20.13	19.94
		50	50	20.40	19.96	19.95
		100	0	20.34	20.19	19.92
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18700CH	18900CH	19100CH
				1860MHz	1880MHz	1900MHz
2 / 20MHz (EIRP)	QPSK	1	0	22.18	22.35	21.7
		1	50	22.47	21.9	22.27
		1	99	21.95	21.97	22.16
		50	0	21.39	21.09	20.99
		50	25	21.46	21.09	20.99
		50	50	21.46	20.89	20.97
		100	0	21.37	21.04	20.99
	16QAM	1	0	20.95	21.08	20.52
		1	50	21.24	20.83	20.92
		1	99	20.75	20.7	20.83
		50	0	20.19	20.07	19.84
		50	25	20.42	20.07	19.88
		50	50	20.34	19.9	19.89
		100	0	20.28	20.13	19.86

GSM850		128CH	190CH	251CH
		824.2MHz	836.6MHz	848.8MHz
GSM (CS)		31.7	31.70	31.72
GPRS/EDGE (GMSK) (conducted)	1 Tx Slot	31.69	31.54	31.52
	2 Tx Slot	29.17	29.05	28.81
	3 Tx Slot	27.9	27.79	27.70
	4 Tx Slot	26.63	26.69	26.60
EDGE (8PSK) (conducted)	1 Tx Slot	26.37	26.00	25.66
	2 Tx Slot	26.71	26.06	26.07
	3 Tx Slot	26.38	25.69	25.73
	4 Tx Slot	25.87	25.34	25.60
GSM850		128CH	190CH	251CH
		824.2MHz	836.6MHz	848.8MHz
GSM (CS)		29.11	29.11	29.13
GPRS/EDGE (GMSK) (ERP)	1 Tx Slot	29.1	28.95	28.93
	2 Tx Slot	26.58	26.46	26.22
	3 Tx Slot	25.31	25.2	25.11
	4 Tx Slot	24.04	24.1	24.01
EDGE (8PSK) (ERP)	1 Tx Slot	23.78	23.41	23.07
	2 Tx Slot	24.12	23.47	23.48
	3 Tx Slot	23.79	23.1	23.14
	4 Tx Slot	23.28	22.75	23.01

Modulation	Band	WCDMA Band V		
	Tx Channel	4132CH	4182CH	4233CH
	Frequency	826.4MHz	836.4MHz	846.6MHz
QPSK (conducted)	RMC 12.2K	23.52	23.57	23.78
	RMC 64K	23.52	23.58	23.75
	RMC 144K	23.53	23.59	23.78
	RMC 384K	23.49	23.58	23.75
	HSDPA Subtest-1	22.54	22.58	22.81
	HSDPA Subtest-2	22.54	22.63	22.81
	HSDPA Subtest-3	22.04	22.15	22.34
	HSDPA Subtest-4	22.12	22.15	22.32
	HSUPA Subtest-1	22.59	22.45	22.77
	HSUPA Subtest-2	21.12	21.1	21.68
	HSUPA Subtest-3	20.72	21.56	21.32
	HSUPA Subtest-4	21.65	21.63	22.13
	HSUPA Subtest-5	22.53	22.5	22.71
Modulation	Band	WCDMA Band V		
	Tx Channel	4132CH	4182CH	4233CH
	Frequency	826.4MHz	836.4MHz	846.6MHz
QPSK (ERP)	RMC 12.2K	20.93	20.98	21.19
	RMC 64K	20.93	20.99	21.16
	RMC 144K	20.94	21	21.19
	RMC 384K	20.9	20.99	21.16
	HSDPA Subtest-1	19.95	19.99	20.22
	HSDPA Subtest-2	19.95	20.04	20.22
	HSDPA Subtest-3	19.45	19.56	19.75
	HSDPA Subtest-4	19.53	19.56	19.73
	HSUPA Subtest-1	20	19.86	20.18
	HSUPA Subtest-2	18.53	18.51	19.09
	HSUPA Subtest-3	18.13	18.97	18.73
	HSUPA Subtest-4	19.06	19.04	19.54
	HSUPA Subtest-5	19.94	19.91	20.12

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20407CH	20525CH	20643CH
				824.7MHz	836.5MHz	848.3MHz
5 / 1.4MHz (conducted)	QPSK	1	0	22.34	22.32	22.38
		1	2	22.72	22.62	22.35
		1	5	22.56	22.42	22.41
		3	0	22.60	22.54	22.48
		3	1	22.77	22.56	22.53
		3	2	22.47	22.49	22.62
		6	0	21.54	21.45	21.59
	16QAM	1	0	21.51	21.71	21.35
		1	2	21.37	21.78	22.09
		1	5	21.21	21.28	21.76
		3	0	21.51	21.26	21.83
		3	1	21.84	21.32	21.80
		3	2	21.68	21.51	21.68
		6	0	20.56	20.60	20.83
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20407CH	20525CH	20643CH
				824.7MHz	836.5MHz	848.3MHz
5 / 1.4MHz (ERP)	QPSK	1	0	19.75	19.73	19.79
		1	2	20.13	20.03	19.76
		1	5	19.97	19.83	19.82
		3	0	20.01	19.95	19.89
		3	1	20.18	19.97	19.94
		3	2	19.88	19.9	20.03
		6	0	18.95	18.86	19
	16QAM	1	0	18.92	19.12	18.76
		1	2	18.78	19.19	19.5
		1	5	18.62	18.69	19.17
		3	0	18.92	18.67	19.24
		3	1	19.25	18.73	19.21
		3	2	19.09	18.92	19.09
		6	0	17.97	18.01	18.24

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20415CH	20525CH	20635CH
				825.5MHz	836.5MHz	847.5MHz
5 / 3MHz (conducted)	QPSK	1	0	22.90	22.52	22.56
		1	7	22.73	22.26	22.49
		1	14	22.72	22.51	22.43
		8	0	21.72	21.60	21.73
		8	4	21.59	21.67	21.60
		8	7	21.69	21.59	21.63
		15	0	21.74	21.61	21.66
	16QAM	1	0	22.26	21.74	21.95
		1	7	22.19	21.69	21.96
		1	14	21.99	21.54	21.92
		8	0	20.97	20.59	20.54
		8	4	21.03	20.61	20.60
		8	7	21.04	20.40	20.40
		15	0	20.83	20.76	20.74
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20415CH	20525CH	20635CH
				825.5MHz	836.5MHz	847.5MHz
5 / 3MHz (ERP)	QPSK	1	0	20.31	19.93	19.97
		1	7	20.14	19.67	19.9
		1	14	20.13	19.92	19.84
		8	0	19.13	19.01	19.14
		8	4	19	19.08	19.01
		8	7	19.1	19	19.04
		15	0	19.15	19.02	19.07
	16QAM	1	0	19.67	19.15	19.36
		1	7	19.6	19.1	19.37
		1	14	19.4	18.95	19.33
		8	0	18.38	18	17.95
		8	4	18.44	18.02	18.01
		8	7	18.45	17.81	17.81
		15	0	18.24	18.17	18.15

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20425CH	20525CH	20625CH
				826.5MHz	836.5MHz	846.5MHz
5 / 5MHz (conducted)	QPSK	1	0	22.68	22.24	22.44
		1	13	22.75	22.31	22.59
		1	24	22.52	22.35	22.57
		12	0	21.78	21.68	21.76
		12	6	21.74	21.69	21.67
		12	11	21.77	21.63	21.66
		25	0	21.74	21.63	21.72
	16QAM	1	0	21.77	21.77	22.00
		1	13	21.77	21.47	21.51
		1	24	21.61	21.57	21.93
		12	0	20.80	20.53	20.63
		12	6	20.94	20.71	20.67
		12	11	20.77	20.41	20.61
		25	0	20.95	20.71	20.64
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20425CH	20525CH	20625CH
				826.5MHz	836.5MHz	846.5MHz
5 / 5MHz (ERP)	QPSK	1	0	20.09	19.65	19.85
		1	13	20.16	19.72	20
		1	24	19.93	19.76	19.98
		12	0	19.19	19.09	19.17
		12	6	19.15	19.1	19.08
		12	11	19.18	19.04	19.07
		25	0	19.15	19.04	19.13
	16QAM	1	0	19.18	19.18	19.41
		1	13	19.18	18.88	18.92
		1	24	19.02	18.98	19.34
		12	0	18.21	17.94	18.04
		12	6	18.35	18.12	18.08
		12	11	18.18	17.82	18.02
		25	0	18.36	18.12	18.05

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20450CH	20525CH	20600CH
				829.0MHz	836.5MHz	844.0MHz
5 / 10MHz (conducted)	QPSK	1	0	22.43	22.52	22.59
		1	25	22.65	22.71	22.63
		1	49	22.81	22.70	22.43
		25	0	21.69	21.67	21.75
		25	13	21.60	21.76	21.69
		25	25	21.60	21.76	21.69
		50	0	21.63	21.65	21.71
	16QAM	1	0	22.05	21.40	21.75
		1	25	22.02	20.95	21.79
		1	49	21.86	21.55	21.85
		25	0	20.78	20.66	20.71
		25	13	20.70	20.75	20.67
		25	25	20.66	20.79	20.60
		50	0	20.69	20.59	20.67
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20450CH	20525CH	20600CH
				829.0MHz	836.5MHz	844.0MHz
5 / 10MHz (ERP)	QPSK	1	0	19.84	19.93	20
		1	25	20.06	20.12	20.04
		1	49	20.22	20.11	19.84
		25	0	19.1	19.08	19.16
		25	13	19.01	19.17	19.1
		25	25	19.01	19.17	19.1
		50	0	19.04	19.06	19.12
	16QAM	1	0	19.46	18.81	19.16
		1	25	19.43	18.36	19.2
		1	49	19.27	18.96	19.26
		25	0	18.19	18.07	18.12
		25	13	18.11	18.16	18.08
		25	25	18.07	18.2	18.01
		50	0	18.1	18	18.08

4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Setup Photo).

----- End of the Report -----

Important

1. The test report is invalid without the official stamp of CVC;
2. Any part photocopies of the test report are forbidden without the written permission from CVC;
3. The test report is invalid without the signatures of Author and Reviewer;
4. The test report is invalid if altered;
5. Objections to the test report must be submitted to CVC within 15 days;
6. Generally, commission test is responsible for the tested samples only;
7. As for the test result, “—” or “N/A” means “not applicable”, “/” means “not testing”, “P” means “pass” and “F” means “fail”.

The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

Address: No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, China (Test location)

Post Code: 510663

Tel: 020-32293888

FAX: 020 32293889

E-mail: office@cvc.org.cn