FCC 47 CFR PART 22H / 24E / 27

Product Type	:	Wireless Mobile Hotspot
Applicant	:	Sierra Wireless, Inc.
Address	:	13811 Wireless Way, Richmond, BC, Canada, V6V 3A4
Trade Name	:	AirCard
Model Number	:	AirCard 770S
Test Specification	:	FCC 47 CFR PART 22H: Oct, 2011 FCC 47 CFR PART 24E: Oct, 2011 FCC 47 CFR PART 27: Oct. 2011 ANSI C63.4: 2009 ANSI/TIA-603-C-2004
Application Purpose	:	Original
Receive Date	:	Oct. 09, 2012
Test Period	:	Oct. 16 ~ Oct. 19, 2012
Issue Date	:	Nov. 22, 2012

Issue by

A Test Lab Techno Corp.
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Taiwan Accreditation Foundation accreditation number: 1330

Revision History

Rev.	Issue Date	Revisions	Revised By
00	Oct. 29, 2012	Initial Issue	
01	Nov. 20, 2012	Revised report information.	Joyce Liao
02	Nov. 22, 2012	Revised conducted power.	Joyce Liao

Verification of Compliance

Issued Date: 11/22/2012

Product Type	:	Wireless Mobile Hotspot
Applicant	:	Sierra Wireless, Inc.
Address	:	13811 Wireless Way, Richmond, BC, Canada, V6V 3A4
Trade Name	:	AirCard
Model Number	:	AirCard 770S
FCC ID	:	N7NAC770S
Applicable Standard	:	FCC 47 CFR PART 22H: Oct, 2011 FCC 47 CFR PART 24E: Oct, 2011 FCC 47 CFR PART 27: Oct. 2011 ANSI C63.4: 2009 ANSI/TIA-603-C-2004
Test Result	:	Complied
Application Purpose	:	Original
Performing Lab.	:	A Test Lab Techno Corp. No. 140-1, Changan Street, Bade City, Taoyuan County 334, Taiwan R.O.C. Tel：+886-3-2710188 / Fax：+886-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330 http://www.atl-lab.com.tw/e-index.htm

The above equipment was tested by A Test Lab Techno Corp. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2009 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 27.

The test results of this report relate only to the tested sample identified in this report.

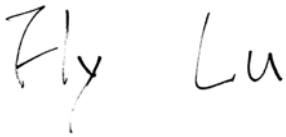
Approved By	:		Reviewed By	:	
(Manager)		(Murphy Wang)	(Testing Engineer)		(Fly Lu)

TABLE OF CONTENTS

1 General Information

1.1. EUT Description

Applicant		Sierra Wireless, Inc.				
Applicant Address		13811 Wireless Way, Richmond, BC, Canada, V6V 3A4				
Manufacturer		Sierra Wireless, Inc.				
Manufacturer Address		13811 Wireless Way, Richmond, BC, Canada, V6V 3A4				
Product Type		Wireless Mobile Hotspot				
Trade Name		AirCard				
Model Number		AirCard 770S				
FCC ID		N7NAC770S				
Hardware Version		1				
Software Version		03.00.05.00				
Mode	LTE	Band	UL Frequency (MHz)	DL Frequency (MHz)	Modulation	Channel Bandwidth (MHz)
		2	1850.0 ~ 1910.0	1930.0 ~ 1990.0	QPSK, 16QAM	1.4, 3, 5, 10, 15, 20
		4	1710.0 ~ 1754.9	2110.0 ~ 2154.9	QPSK, 16QAM	1.4, 3, 5, 10, 15, 20
		5	824.0 ~ 849.0	869.0 ~ 894.0	QPSK, 16QAM	1.4, 3, 5, 10
		17	704.0 ~ 715.9	734.0 ~ 745.9	QPSK, 16QAM	5, 10
Max. Conducted Output Average Power		LTE Band 2 QPSK	1.4MHz: 0.208 W	3MHz: 0.212 W	5MHz: 0.212 W	
			10MHz: 0.213 W	15MHz: 0.215 W	20MHz: 0.221 W	
		LTE Band 2 16QAM	1.4MHz: 0.165 W	3MHz: 0.170 W	5MHz: 0.169 W	
			10MHz: 0.174 W	15MHz: 0.182 W	20MHz: 0.177 W	
		LTE Band 4 QPSK	1.4MHz: 0.194 W	3MHz: 0.196 W	5MHz: 0.210 W	
			10MHz: 0.215 W	15MHz: 0.201 W	20MHz: 0.201 W	
		LTE Band 4 16QAM	1.4MHz: 0.163 W	3MHz: 0.161 W	5MHz: 0.177 W	
			10MHz: 0.175 W	15MHz: 0.168 W	20MHz: 0.170 W	
		LTE Band 5 QPSK	1.4MHz: 0.170 W	3MHz: 0.170 W	5MHz: 0.173 W	
			10MHz: 0.172 W			
		LTE Band 5 16QAM	1.4MHz: 0.142 W	3MHz: 0.138 W	5MHz: 0.142 W	
			10MHz: 0.146 W			
		LTE Band 17 QPSK		5MHz: 0.175 W	10MHz: 0.173 W	
		LTE Band 17 16QAM		5MHz: 0.141 W	10MHz: 0.143 W	

Max. E.R.P. / E.I.R.P.	LTE Band 2	1.4MHz: 0.200 W	3MHz: 0.216 W	5MHz: 0.295 W
	QPSK	10MHz: 0.329 W	15MHz: 0.296 W	20MHz: 0.295 W
	LTE Band 2	1.4MHz: 0.133 W	3MHz: 0.144 W	5MHz: 0.232 W
	16QAM	10MHz: 0.231 W	15MHz: 0.199 W	20MHz: 0.222 W
	LTE Band 4	1.4MHz: 0.193 W	3MHz: 0.240 W	5MHz: 0.212 W
	QPSK	10MHz: 0.229 W	15MHz: 0.226 W	20MHz: 0.239 W
	LTE Band 4	1.4MHz: 0.159 W	3MHz: 0.197 W	5MHz: 0.168 W
	16QAM	10MHz: 0.188 W	15MHz: 0.195 W	20MHz: 0.202 W
	LTE Band 5	1.4MHz: 0.205 W	3MHz: 0.221 W	5MHz: 0.201 W
	QPSK	10MHz: 0.188 W		
	LTE Band 5	1.4MHz: 0.171 W	3MHz: 0.132 W	5MHz: 0.165 W
	16QAM	10MHz: 0.141 W		
	LTE Band 17 QPSK		5MHz: 0.244 W	10MHz: 0.337 W
	LTE Band 17 16QAM		5MHz: 0.199 W	10MHz: 0.252 W
Emission Designator	LTE Band 2	1.4MHz: 1M08G7D	3MHz: 2M69G7D	5MHz: 4M48G7D
	QPSK	10MHz: 8M96G7D	15MHz: 13M4G7D	20MHz: 17M9G7D
	LTE Band 2	1.4MHz: 1M08D7D	3MHz: 2M69G7D	5MHz: 4M47D7D
	16QAM	10MHz: 8M93D7D	15MHz: 13M4G7D	20MHz: 17M9D7D
	LTE Band 4	1.4MHz: 1M08G7D	3MHz: 2M69G7D	5MHz: 4M47G7D
	QPSK	10MHz: 8M96G7D	15MHz: 13M5G7D	20MHz: 17M9G7D
	LTE Band 4	1.4MHz: 1M08D7D	3MHz: 2M69D7D	5MHz: 4M47D7D
	16QAM	10MHz: 8M94D7D	15MHz: 13M4D7D	20MHz: 17M9D7D
	LTE Band 5	1.4MHz: 1M08G7D	3MHz: 2M69G7D	5MHz: 4M48G7D
	QPSK	10MHz: 8M94G7D		
	LTE Band 5	1.4MHz: 1M08D7D	3MHz: 2M68D7D	5MHz: 4M47D7D
	16QAM	10MHz: 8M94D7D		
	LTE Band 17 QPSK		5MHz: 4M48G7D	10MHz: 8M94G7D
	LTE Band 17 16QAM		5MHz: 4M48D7D	10MHz: 8M91D7D

1.2. Mode of Operation

Three channels had been tested for each channel bandwidth.

LTE Band 2						
Channel Bandwidth	1.4MHz		3MHz		5MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	18607	1850.7	18615	1851.5	18625	1852.5
Middle CH	18900	1880.0	18900	1880.0	18900	1880.0
High CH	19193	1909.3	19185	1908.5	19175	1907.5
Channel Bandwidth	10MHz		15MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	18650	1855.0	18678	1857.5	18700	1860.0
Middle CH	18900	1880.0	18900	1880.0	18900	1880.0
High CH	19150	1905.0	19125	1902.5	19100	1900.0

LTE Band 4						
Channel Bandwidth	1.4MHz		3MHz		5MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	19957	1710.7	19965	1711.5	19975	1712.5
Middle CH	20175	1732.5	20175	1732.5	20175	1732.5
High CH	20393	1754.3	20385	1753.5	20375	1752.5
Channel Bandwidth	10MHz		15MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20000	1715.0	20025	1717.5	20050	1720.0
Middle CH	20175	1732.5	20175	1732.5	20175	1732.5
High CH	20350	1750.0	20325	1747.5	20300	1745.0

LTE Band 5								
Channel Bandwidth	1.4MHz		3MHz		5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20407	824.7	20415	825.5	20425	826.5	20450	829.0
Middle CH	20525	836.5	20525	836.5	20525	836.5	20525	836.5
High CH	20643	848.3	20635	847.5	20625	846.5	20600	844.0

LTE Band 17				
Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23755	706.5	23780	709.0
Middle CH	23790	710.0	23790	710.0
High CH	23825	713.5	23800	711.0

\Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

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

Frequency range investigated for radiated emission: 30MHz to 19000 MHz.

Band	Channel Bandwidth	Test Modes		
LTE Band 2	1.4MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 3) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 1) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	3MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 7) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 4) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	5MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	10MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	15MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 37) Link ☐ LTE(RB Size 1, RB Offset 74) Link ☐ LTE(RB Size 36, RB Offset 18) Link ☐ LTE(RB Size 75, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	20MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 1, RB Offset 99) Link ☐ LTE(RB Size 50, RB Offset 0) Link ☐ LTE(RB Size 50, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 55) Link ☐ LTE(RB Size 100, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK

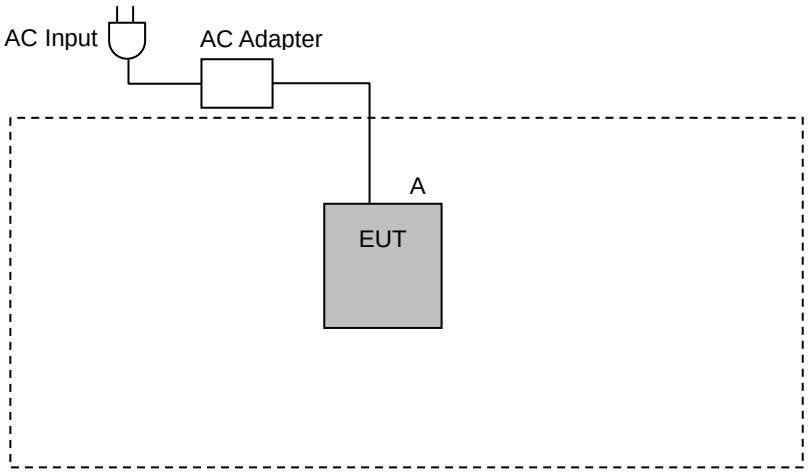
Band	Channel Bandwidth	Test Modes		
LTE Band 4	1.4MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 3) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 1) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	3MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 7) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 4) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	5MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	10MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	15MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 37) Link ☐ LTE(RB Size 1, RB Offset 74) Link ☐ LTE(RB Size 36, RB Offset 18) Link ☐ LTE(RB Size 75, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	20MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 1, RB Offset 99) Link ☐ LTE(RB Size 50, RB Offset 0) Link ☐ LTE(RB Size 50, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 50) Link ☐ LTE(RB Size 100, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
LTE Band 5	1.4MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 3) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 1) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	3MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 7) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 4) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	5MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	10MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 49) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK

Band	Channel Bandwidth	Test Modes		
LTE Band 17	5MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK
	10MHz	Conducted TCs	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 49) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
		Radiated TCs		QPSK

1.3. EUT Exercise Software

1	Setup the EUT and Base Station (CMW500) as shown on 1.4.
2	Turn on the power of all equipment.
3	EUT run test program test.

1.4. Configuration of Test System Details



Signal Cable Type		Signal Cable Description
A	USB Cable	Shielded, 1.1 m

Devices Description					
Product		Manufacturer	Model Number	Serial Number	Power Cord
1.	-----	-----	-----	-----	-----

1.5. Test Site Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

1.6. Summary of Test Result

LTE Band 2			
FCC Rule	Description	Limit	Result
§2.1046(a)	Conducted Output Average Power	N/A	Pass
§24.232(c)	Equivalent Isotropic Radiated Power	< 1 W (E.I.R.P.)	Pass
§2.1055(a), (d) §24.235	Frequency Stability	< ± 2.5 ppm	Pass
§2.1049(h) §24.238(a)	Occupied Bandwidth	N/A	Pass
§24.232(d)	Peak to average ratio	< 13 dB	Pass
§2.1051 §24.238(a)	Band Edge	< $43+10\log_{10}(P)$ dB	Pass
§2.1051 §24.238(a)	Conducted Spurious Emissions	< $43+10\log_{10}(P)$ dB Under 13.0 dB	Pass
§2.1053 §24.238(a)	Radiated Spurious Emissions	< $43+10\log_{10}(P)$ dB Under 13.0 dB	Pass

LTE Band 4			
FCC Rule	Description	Limit	Result
§2.1046(a)	Conducted Output Average Power	N/A	Pass
§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 W (E.I.R.P.)	Pass
§2.1055(a), (d) §27.54	Frequency Stability	< ± 2.5 ppm	Pass
§2.1049(h) §27.53(h)	Occupied Bandwidth	N/A	Pass
§27.50(d)(5)	Peak to average ratio	< 13 dB	Pass
§2.1051 §27.53(h)	Band Edge	< $43+10\log_{10}(P)$ dB	Pass
§2.1051 §27.53(h)	Conducted Spurious Emissions	< $43+10\log_{10}(P)$ dB Under 13.0 dB	Pass
§2.1053 §27.53(h)	Radiated Spurious Emissions	< $43+10\log_{10}(P)$ dB Under 13.0 dB	Pass

LTE Band 5			
FCC Rule	Description	Limit	Result
§2.1046(a) §22.913(a)	Conducted Output Average Power	N/A	Pass
§22.913(a)	Equivalent Isotropic Radiated Power	< 1 W (E.I.R.P.)	Pass
§2.1055(a), (d) §22.355	Frequency Stability	< ± 2.5 ppm	Pass
§2.1049(h)	Occupied Bandwidth	N/A	Pass
N/A	Peak to average ratio	N/A	Pass
§2.1051 §22.917(a)	Band Edge	< $43+10\log_{10}(P)$ dB	Pass
§2.1051 §22.917(a)	Conducted Spurious Emissions	< $43+10\log_{10}(P)$ dB Under 13.0 dB	Pass
§2.1053 §22.913(a)	Radiated Spurious Emissions	< $43+10\log_{10}(P)$ dB Under 13.0 dB	Pass

LTE Band 17			
FCC Rule	Description	Limit	Result
§2.1046(a)	Conducted Output Average Power	N/A	Pass
§27.50(c)(10)	Equivalent Radiated Power	< 3 W (E.R.P.)	Pass
§2.1055(a), (d) §27.54	Frequency Stability	< ± 2.5 ppm	Pass
§2.1049(h) §27.53(g)	Occupied Bandwidth	N/A	Pass
§27.50(d)(5)	Peak to average ratio	< 13 dB	Pass
§2.1051 §27.53(g)	Band Edge	< 43+10log(P) dB	Pass
§2.1051 §27.53(g)	Conducted Spurious Emissions	< 43+10log(P) dB Under 13.0 dB	Pass
§2.1053 §27.53(g)	Radiated Spurious Emissions	< 43+10log(P) dB Under 13.0 dB	Pass

2 Conducted Output Average Power Test

2.1. Limit

N/A

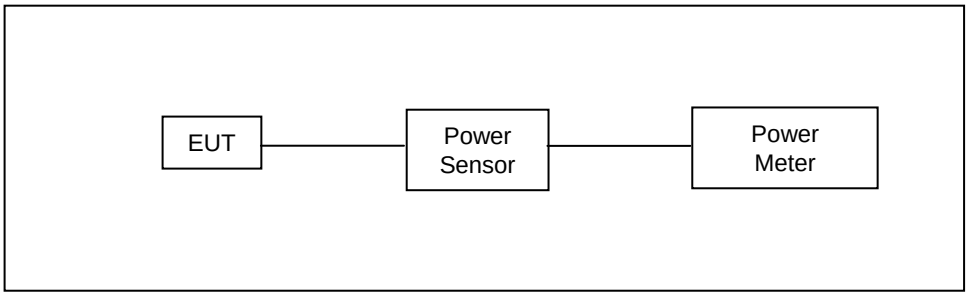
2.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Wideband Radio Communication Test	R & S	CMW500	103168	12/01/2011	(1)
Wideband Power Sensor	Agilent	N1921A	MY45241957	12/15/2011	(1)
Single Channel PK Power Meter	Agilent	N1911A	MY45101619	12/15/2011	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

2.3. Test Setup



2.4. Test Procedure

a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.

b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

2.5. Uncertainty

The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

2.6. Test Result

Model Number	AirCard 770S		
Test Item	Conducted Output Average Power		
Date of Test	10/16/2012	Test Site	TE05

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	1.4MHz	QPSK	18607	1850.7	1	0	**23.18**	**0.208**
					1	3	23.16	0.207
					1	5	23.15	0.207
					3	1	22.96	0.198
					6	0	22.06	0.161
			18900	1880.0	1	0	23.09	0.204
					1	3	23.06	0.202
					1	5	23.04	0.201
					3	1	22.93	0.196
					6	0	22.02	0.159
			19193	1909.3	1	0	23.13	0.206
					1	3	23.10	0.204
					1	5	23.09	0.204
					3	1	22.91	0.195
					6	0	22.16	0.164
		16QAM	18607	1850.7	1	0	**22.17**	**0.165**
					1	3	22.12	0.163
					1	5	22.09	0.162
					3	1	21.93	0.156
					6	0	21.17	0.131
			18900	1880.0	1	0	22.15	0.164
					1	3	22.10	0.162
					1	5	22.05	0.160
					3	1	21.99	0.158
					6	0	21.19	0.132
			19193	1909.3	1	0	22.16	0.164
					1	3	22.13	0.163
					1	5	22.11	0.163
					3	1	22.03	0.160
					6	0	21.20	0.132

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	3MHz	QPSK	18615	1851.5	1	0	23.02	0.200
					1	7	23.00	0.200
					1	14	22.97	0.198
					8	4	21.84	0.153
					15	0	21.75	0.150
			18900	1880.0	1	0	**23.27**	**0.212**
					1	7	23.24	0.211
					1	14	23.21	0.209
					8	4	22.06	0.161
					15	0	22.01	0.159
			19185	1908.5	1	0	23.09	0.204
					1	7	23.04	0.201
					1	14	22.97	0.198
					8	4	22.14	0.164
					15	0	22.07	0.161
		16QAM	18615	1851.5	1	0	22.23	0.167
					1	7	22.19	0.166
					1	14	22.07	0.161
					8	4	20.95	0.124
					15	0	20.88	0.122
			18900	1880.0	1	0	**22.31**	**0.170**
					1	7	22.28	0.169
					1	14	22.16	0.164
					8	4	21.09	0.129
					15	0	20.91	0.123
			19185	1908.5	1	0	22.23	0.167
					1	7	22.20	0.166
					1	14	22.18	0.165
					8	4	21.09	0.129
					15	0	20.97	0.125

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5MHz	QPSK	18625	1852.5	1	0	23.12	0.205
					1	12	23.10	0.204
					1	24	23.05	0.202
					12	6	22.13	0.163
					25	0	22.01	0.159
			18900	1880.0	1	0	**23.27**	**0.212**
					1	12	23.24	0.211
					1	24	23.18	0.208
					12	6	22.04	0.160
					25	0	21.94	0.156
			19175	1907.5	1	0	23.02	0.200
					1	12	23.00	0.200
					1	24	22.95	0.197
					12	6	22.08	0.161
					25	0	21.96	0.157
		16QAM	18625	1852.5	1	0	22.27	0.169
					1	12	22.21	0.166
					1	24	22.03	0.160
					12	6	20.95	0.124
					25	0	20.75	0.119
			18900	1880.0	1	0	**22.28**	**0.169**
					1	12	22.22	0.167
					1	24	22.17	0.165
					12	6	20.93	0.124
					25	0	20.88	0.122
			19175	1907.5	1	0	22.24	0.167
					1	12	22.19	0.166
					1	24	22.15	0.164
					12	6	20.98	0.125
					25	0	20.84	0.121

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10MHz	QPSK	18650	1855.0	1	0	**23.28**	**0.213**
					1	24	23.18	0.208
					1	49	23.02	0.200
					25	12	21.84	0.153
					50	0	21.77	0.150
			18900	1880.0	1	0	23.13	0.206
					1	24	23.10	0.204
					1	49	22.99	0.199
					25	12	22.06	0.161
					50	0	22.01	0.159
			19150	1905.0	1	0	23.25	0.211
					1	24	23.21	0.209
					1	49	23.17	0.207
					25	12	21.95	0.157
					50	0	21.91	0.155
		16QAM	18650	1855.0	1	0	22.26	0.168
					1	24	22.20	0.166
					1	49	22.15	0.164
					25	12	20.93	0.124
					50	0	20.88	0.122
			18900	1880.0	1	0	**22.41**	**0.174**
					1	24	22.35	0.172
					1	49	22.22	0.167
					25	12	21.05	0.127
					50	0	20.88	0.122
			19150	1905.0	1	0	22.28	0.169
					1	24	22.23	0.167
					1	49	22.18	0.165
					25	12	20.61	0.115
					50	0	20.55	0.114

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	15MHz	QPSK	18675	1857.5	1	0	23.27	0.212
					1	37	23.22	0.210
					1	74	23.05	0.202
					36	18	21.81	0.152
					75	0	21.74	0.149
			18900	1880	1	0	**23.33**	**0.215**
					1	37	23.29	0.213
					1	74	23.23	0.210
					36	18	21.77	0.150
					75	0	21.73	0.149
			19125	1902.5	1	0	23.11	0.205
					1	37	23.08	0.203
					1	74	23.06	0.202
					36	18	21.81	0.152
					75	0	21.64	0.146
		16QAM	18675	1857.5	1	0	22.57	0.181
					1	37	22.48	0.177
					1	74	22.32	0.171
					36	18	20.70	0.117
					75	0	20.68	0.117
			18900	1880	1	0	**22.61**	**0.182**
					1	37	22.59	0.182
					1	74	22.27	0.169
					36	18	20.85	0.122
					75	0	20.70	0.117
			19125	1902.5	1	0	22.42	0.175
					1	37	22.37	0.173
					1	74	22.23	0.167
					36	18	20.80	0.120
					1	0	20.75	0.119

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	20MHz	QPSK	18700	1860	1	0	23.22	0.210
					1	49	23.18	0.208
					1	99	23.13	0.206
					50	0	21.73	0.149
					50	25	21.76	0.150
					50	50	21.70	0.148
					100	0	21.75	0.150
			18900	1880	1	0	**23.44**	**0.221**
					1	49	23.39	0.218
					1	99	23.33	0.215
					50	0	21.63	0.146
					50	25	21.66	0.147
					50	50	21.60	0.145
					100	0	21.61	0.145
			19100	1900	1	0	23.31	0.214
					1	49	23.27	0.212
					1	99	23.22	0.210
					50	0	21.79	0.151
					50	25	21.82	0.152
					50	50	21.74	0.149
					100	0	21.72	0.149
		16QAM	18700	1860	1	0	22.38	0.173
					1	49	22.31	0.170
					1	99	22.21	0.166
					50	25	20.74	0.119
					100	0	20.73	0.118
			18900	1880	1	0	**22.48**	**0.177**
					1	49	22.39	0.173
					1	99	22.24	0.167
					50	25	20.70	0.117
					100	0	20.52	0.113
			19100	1900	1	0	22.47	0.177
					1	49	22.37	0.173
					1	99	22.27	0.169
					50	25	20.76	0.119
					100	0	20.66	0.116

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	1.4MHz	QPSK	19957	1710.7	1	0	22.85	0.193
					1	3	22.80	0.191
					1	5	22.79	0.190
					3	1	22.62	0.183
					6	0	21.92	0.156
			20175	1732.5	1	0	**22.88**	**0.194**
					1	3	22.82	0.191
					1	5	22.74	0.188
					3	1	22.54	0.179
					6	0	21.82	0.152
			20393	1754.3	1	0	22.75	0.188
					1	3	22.69	0.186
					1	5	22.64	0.184
					3	1	22.55	0.180
					6	0	21.83	0.152
		16QAM	19957	1710.7	1	0	22.10	0.162
					1	3	22.05	0.160
					1	5	22.01	0.159
					3	1	21.85	0.153
					6	0	20.88	0.122
			20175	1732.5	1	0	**22.11**	**0.163**
					1	3	22.06	0.161
					1	5	22.03	0.160
					3	1	21.91	0.155
					6	0	20.82	0.121
			20393	1754.3	1	0	22.11	0.163
					1	3	22.05	0.160
					1	5	22.02	0.159
					3	1	21.91	0.155
					6	0	20.79	0.120

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	3MHz	QPSK	19965	1711.5	1	0	**22.93**	**0.196**
					1	7	22.87	0.194
					1	14	22.81	0.191
					8	4	21.85	0.153
					15	0	21.74	0.149
			20175	1732.5	1	0	22.84	0.192
					1	7	22.82	0.191
					1	14	22.79	0.190
					8	4	21.86	0.153
					15	0	21.78	0.151
			20385	1753.5	1	0	22.81	0.191
					1	7	22.69	0.186
					1	14	22.56	0.180
					8	4	21.75	0.150
					15	0	21.67	0.147
		16QAM	19965	1711.5	1	0	21.91	0.155
					1	7	21.85	0.153
					1	14	21.76	0.150
					8	4	20.79	0.120
					15	0	20.64	0.116
			20175	1732.5	1	0	22.06	0.161
					1	7	22.02	0.159
					1	14	21.99	0.158
					8	4	20.85	0.122
					15	0	20.75	0.119
			20385	1753.5	1	0	**22.07**	**0.161**
					1	7	22.01	0.159
					1	14	21.95	0.157
					8	4	20.76	0.119
					15	0	20.64	0.116

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5MHz	QPSK	19975	1712.5	1	0	**23.22**	**0.210**
					1	12	23.07	0.203
					1	24	23.06	0.202
					12	6	22.05	0.160
					25	0	21.84	0.153
			20175	1732.5	1	0	23.18	0.208
					1	12	23.05	0.202
					1	24	23.01	0.200
					12	6	22.00	0.158
					25	0	21.85	0.153
			20375	1752.5	1	0	23.20	0.209
					1	12	23.09	0.204
					1	24	23.04	0.201
					12	6	22.01	0.159
					25	0	21.87	0.154
		16QAM	19975	1712.5	1	0	22.41	0.174
					1	12	22.38	0.173
					1	24	22.32	0.171
					12	6	21.31	0.135
					25	0	21.17	0.131
			20175	1732.5	1	0	**22.47**	**0.177**
					1	12	22.43	0.175
					1	24	22.42	0.175
					12	6	21.20	0.132
					25	0	21.06	0.128
			20375	1752.5	1	0	22.38	0.173
					1	12	22.31	0.170
					1	24	22.25	0.168
					12	6	21.14	0.130
					25	0	21.02	0.126

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10MHz	QPSK	20000	1715.0	1	0	23.21	0.209
					1	24	23.20	0.209
					1	49	23.19	0.208
					25	12	21.91	0.155
					50	0	21.77	0.150
			20175	1732.5	1	0	**23.32**	**0.215**
					1	24	23.21	0.209
					1	49	23.07	0.203
					25	12	21.85	0.153
					50	0	21.68	0.147
			20350	1750.0	1	0	23.29	0.213
					1	24	23.26	0.212
					1	49	23.24	0.211
					25	12	21.83	0.152
					50	0	21.66	0.147
		16QAM	20000	1715.0	1	0	22.27	0.169
					1	24	22.21	0.166
					1	49	22.19	0.166
					25	12	20.78	0.120
					50	0	20.66	0.116
			20175	1732.5	1	0	**22.44**	**0.175**
					1	24	22.43	0.175
					1	49	22.43	0.175
					25	12	20.81	0.121
					50	0	20.68	0.117
			20350	1750.0	1	0	22.32	0.171
					1	24	22.31	0.170
					1	49	22.30	0.170
					25	12	20.83	0.121
					50	0	20.61	0.115

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	15MHz	QPSK	20025	1717.5	1	0	**23.04**	**0.201**
					1	37	23.00	0.200
					1	74	22.83	0.192
					36	18	21.51	0.142
					75	0	21.45	0.140
			20175	1732.5	1	0	22.93	0.196
					1	37	22.89	0.195
					1	74	22.83	0.192
					36	18	21.52	0.142
					75	0	21.40	0.138
			20325	1747.5	1	0	22.91	0.195
					1	37	22.88	0.194
					1	74	22.79	0.190
					36	18	21.53	0.142
					75	0	21.49	0.141
		16QAM	20025	1717.5	1	0	22.15	0.164
					1	37	22.11	0.163
					1	74	22.04	0.160
					36	18	20.49	0.112
					75	0	20.38	0.109
			20175	1732.5	1	0	22.03	0.160
					1	37	21.96	0.157
					1	74	21.92	0.156
					36	18	20.53	0.113
					75	0	20.41	0.110
			20325	1747.5	1	0	**22.26**	**0.168**
					1	37	22.19	0.166
					1	74	22.15	0.164
					36	18	20.77	0.119
					75	0	20.45	0.111

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	20MHz	QPSK	20050	1720.0	1	0	22.20	0.166
					1	49	22.11	0.163
					1	99	22.05	0.160
					50	0	21.40	0.138
					50	25	21.42	0.139
					50	50	21.41	0.138
					100	0	21.37	0.137
			20175	1732.5	1	0	22.98	0.199
					1	49	22.86	0.193
					1	99	22.77	0.189
					50	0	21.55	0.143
					50	25	21.59	0.144
					50	50	21.51	0.142
					100	0	21.48	0.141
			20300	1745.0	1	0	**23.03**	**0.201**
					1	49	22.96	0.198
					1	99	22.91	0.195
					50	0	21.36	0.137
					50	25	21.40	0.138
					50	50	21.33	0.136
					100	0	21.31	0.135
		16QAM	20050	1720.0	1	0	22.20	0.166
					1	49	22.11	0.163
					1	99	22.05	0.160
					50	25	20.42	0.110
					100	0	20.37	0.109
			20175	1732.5	1	0	**22.31**	**0.170**
					1	49	22.21	0.166
					1	99	22.15	0.164
					50	25	20.45	0.111
					100	0	20.39	0.109
			20300	1745.0	1	0	22.19	0.166
					1	49	22.12	0.163
					1	99	22.09	0.162
					50	25	20.46	0.111
					100	0	20.31	0.107

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	1.4MHz	QPSK	20407	824.7	1	0	22.10	0.162
					1	3	22.06	0.161
					1	5	22.04	0.160
					3	1	22.01	0.159
					6	0	21.31	0.135
			20525	836.5	1	0	**22.31**	**0.170**
					1	3	22.28	0.169
					1	5	22.24	0.167
					3	1	22.09	0.162
					6	0	21.27	0.134
			20643	848.3	1	0	22.15	0.164
					1	3	22.11	0.163
					1	5	22.07	0.161
					3	1	21.99	0.158
					6	0	21.12	0.129
		16QAM	20407	824.7	1	0	21.21	0.132
					1	3	21.18	0.131
					1	5	21.16	0.131
					3	1	20.89	0.123
					6	0	20.66	0.116
			20525	836.5	1	0	**21.52**	**0.142**
					1	3	21.45	0.140
					1	5	21.32	0.136
					3	1	21.13	0.130
					6	0	20.71	0.118
			20643	848.3	1	0	21.42	0.139
					1	3	21.38	0.137
					1	5	21.26	0.134
					3	1	21.03	0.127
					6	0	20.59	0.115

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	3MHz	QPSK	20415	825.5	1	0	22.15	0.164
					1	7	22.11	0.163
					1	14	22.06	0.161
					8	4	21.11	0.129
					15	0	21.03	0.127
			20525	836.5	1	0	**22.30**	**0.170**
					1	7	22.28	0.169
					1	14	22.25	0.168
					8	4	21.31	0.135
					15	0	21.21	0.132
			20635	847.5	1	0	22.24	0.167
					1	7	22.16	0.164
					1	14	22.09	0.162
					8	4	21.20	0.132
					15	0	21.06	0.128
		16QAM	20415	825.5	1	0	21.19	0.132
					1	7	21.15	0.130
					1	14	21.12	0.129
					8	4	20.32	0.108
					15	0	20.18	0.104
			20525	836.5	1	0	21.36	0.137
					1	7	21.31	0.135
					1	14	21.24	0.133
					8	4	20.33	0.108
					15	0	20.22	0.105
			20635	847.5	1	0	**21.39**	**0.138**
					1	7	21.33	0.136
					1	14	21.28	0.134
					8	4	21.30	0.135
					15	0	21.16	0.131

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	5MHz	QPSK	20425	826.5	1	0	**22.38**	**0.173**
					1	12	22.31	0.170
					1	24	22.24	0.167
					12	6	21.26	0.134
					25	0	21.16	0.131
			20525	836.5	1	0	22.36	0.172
					1	12	22.31	0.170
					1	24	22.22	0.167
					12	6	21.26	0.134
					25	0	21.20	0.132
			20625	846.5	1	0	22.24	0.167
					1	12	22.18	0.165
					1	24	22.06	0.161
					12	6	21.20	0.132
					25	0	21.11	0.129
		16QAM	20425	826.5	1	0	21.33	0.136
					1	12	21.25	0.133
					1	24	21.12	0.129
					12	6	20.31	0.107
					25	0	20.12	0.103
			20525	836.5	1	0	**21.53**	**0.142**
					1	12	21.48	0.141
					1	24	21.33	0.136
					12	6	20.30	0.107
					25	0	20.16	0.104
			20625	846.5	1	0	21.45	0.140
					1	12	21.40	0.138
					1	24	21.23	0.133
					12	6	20.33	0.108
					25	0	20.12	0.103

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	10MHz	QPSK	20450	829.0	1	0	22.24	0.167
					1	24	22.18	0.165
					1	49	22.13	0.163
					25	0	21.14	0.130
					25	12	21.16	0.131
					25	49	21.11	0.129
					50	0	21.09	0.129
			20525	836.5	1	0	22.30	0.170
					1	24	22.28	0.169
					1	49	22.27	0.169
					25	0	21.16	0.131
					25	12	21.18	0.131
					25	49	21.12	0.129
					50	0	21.06	0.128
			20600	844.0	1	0	**22.35**	**0.172**
					1	24	22.30	0.170
					1	49	22.21	0.166
					25	0	21.10	0.129
					25	12	21.13	0.130
					25	49	21.08	0.128
					50	0	21.07	0.128
		16QAM	20450	829.0	1	0	21.33	0.136
					1	24	21.28	0.134
					1	49	21.17	0.131
					25	12	19.95	0.099
					50	0	19.88	0.097
			20525	836.5	1	0	21.48	0.141
					1	24	21.41	0.138
					1	49	21.29	0.135
					25	12	20.14	0.103
					50	0	20.04	0.101
			20600	844.0	1	0	**21.65**	**0.146**
					1	24	21.51	0.142
					1	49	21.31	0.135
					25	12	20.33	0.108
					50	0	20.19	0.104

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 17	5MHz	QPSK	23755	706.5	1	0	**22.44**	**0.175**
					1	12	22.41	0.174
					1	24	22.39	0.173
					12	6	21.42	0.139
					25	0	21.12	0.129
			23790	710.0	1	0	22.40	0.174
					1	12	22.38	0.173
					1	24	22.36	0.172
					12	6	21.55	0.143
					25	0	21.42	0.139
			23825	713.5	1	0	22.39	0.173
					1	12	22.31	0.170
					1	24	22.16	0.164
					12	6	21.27	0.134
					25	0	21.19	0.132
		16QAM	23755	706.5	1	0	21.43	0.139
					1	12	21.40	0.138
					1	24	21.29	0.135
					12	6	20.27	0.106
					25	0	20.12	0.103
			23790	710.0	1	0	**21.49**	**0.141**
					1	12	21.42	0.139
					1	24	21.33	0.136
					12	6	20.48	0.112
					25	0	20.39	0.109
			23825	713.5	1	0	21.38	0.137
					1	12	21.33	0.136
					1	24	21.14	0.130
					12	6	20.31	0.107
					25	0	20.22	0.105

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 17	10MHz	QPSK	23780	709.0	1	0	**22.38**	**0.173**
					1	24	22.31	0.170
					1	49	22.28	0.169
					25	0	21.30	0.135
					25	12	21.32	0.136
					25	49	21.28	0.134
					50	0	21.16	0.131
			23790	710.0	1	0	22.22	0.167
					1	24	22.19	0.166
					1	49	22.16	0.164
					25	0	21.31	0.135
					25	12	21.31	0.135
					25	49	21.27	0.134
					50	0	21.19	0.132
			23800	711.0	1	0	22.18	0.165
					1	24	22.11	0.163
					1	49	22.02	0.159
					25	0	21.31	0.135
					25	12	21.33	0.136
					25	49	21.28	0.134
					50	0	21.20	0.132
		16QAM	23780	709.0	1	0	21.45	0.140
					1	24	21.41	0.138
					1	49	21.33	0.136
					25	12	20.24	0.106
					50	0	20.18	0.104
			23790	710.0	1	0	**21.55**	**0.143**
					1	24	21.48	0.141
					1	49	21.37	0.137
					25	12	20.34	0.108
					50	0	20.31	0.107
			23800	711.0	1	0	21.51	0.142
					1	24	21.48	0.141
					1	49	21.28	0.134
					25	12	20.32	0.108
					50	0	20.28	0.107

3 Effective Radiated Power / Equivalent Isotropic Radiated Power Test

3.1. Limit

For FCC Part 22.913(a)(2): The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.
For FCC Part 24.232(b): The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.
For FCC Part 27.50(d): Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt E.I.R.P.
For FCC Part 27.50(c): Portable stations (hand-held devices) operating in the 698–746 MHz band are limited to 3 watts E.R.P.

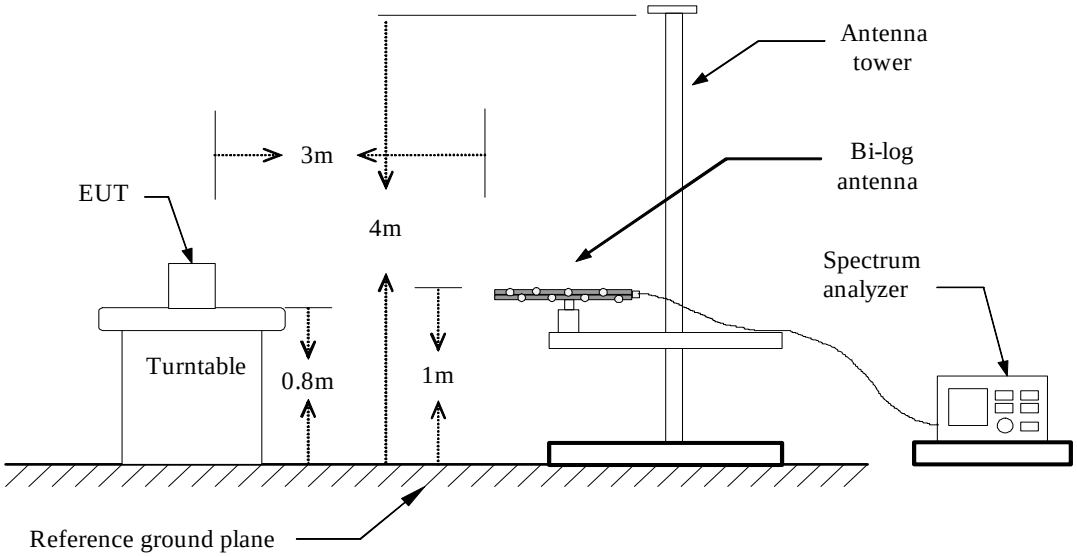
3.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/16/2012	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/16/2012	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/22/2012	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/22/2012	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	06/29/2012	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/15/2012	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/21/2012	(1)
Test Site	ATL	TE01	888001	12/20/2011	(1)

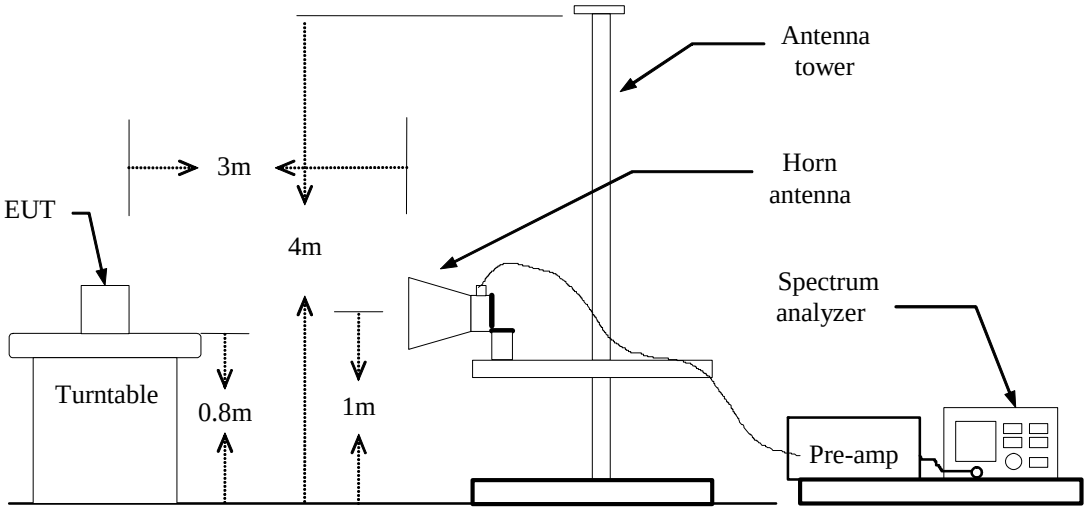
Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.
Note: N.C.R. = No Calibration Request.

3.3. Test Setup

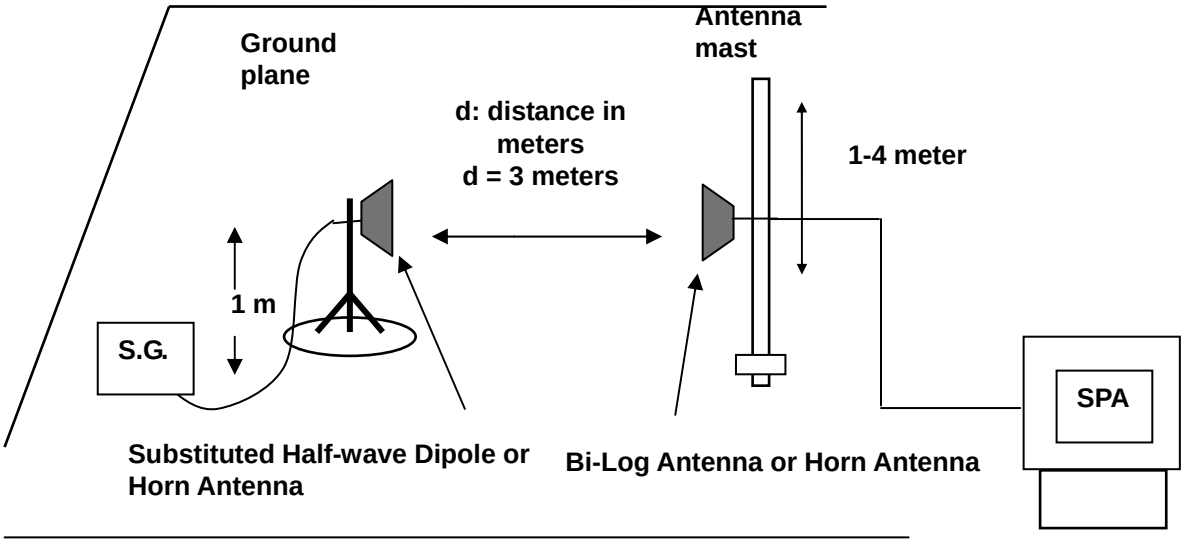
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



3.4. Test Procedure

a. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RWB and VBW is 10MHz for LTE and 5MHz for WCDMA mode.

b. E.I.R.P power 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.

c. 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.

d. E.I.R.P. = Output power level of S.G TX cable loss + Antenna gain of substitution horn

e. E.R.P. = E.I.R.P- 2.15 dB

3.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is ± 3.072 dB.

3.6. Test Result

Model Number	AirCard 770S		
Test Item	E.I.R.P. / E.R.P.		
Date of Test	10/19/2012	Test Site	TC03

LTE Band 2								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
1.4MHz	QPSK	1850.7	H	11.80	10.49	22.29	0.169	< 2
			V	13.82	8.33	22.15	0.164	< 2
		1880.0	H	12.08	10.51	22.59	0.182	< 2
			V	13.39	8.57	21.96	0.157	< 2
		1909.3	H	12.50	10.52	**23.02**	**0.200**	< 2
			V	13.71	8.80	22.51	0.178	< 2
3MHz		1851.5	H	12.86	10.49	**23.35**	**0.216**	< 2
			V	13.30	8.33	21.63	0.146	< 2
		1880.0	H	12.03	10.51	22.54	0.179	< 2
			V	11.88	10.51	22.39	0.173	< 2
		1908.5	H	12.58	10.52	23.10	0.204	< 2
			V	12.40	10.51	22.91	0.195	< 2
5MHz		1852.5	H	14.20	10.50	**24.70**	**0.295**	< 2
			V	13.54	10.50	24.04	0.254	< 2
		1880.0	H	14.13	10.50	24.63	0.290	< 2
			V	13.34	10.50	23.84	0.242	< 2
		1907.5	H	13.26	10.52	23.78	0.239	< 2
			V	13.10	10.52	23.62	0.230	< 2
10MHz		1855.0	H	14.68	10.49	**25.17**	**0.329**	< 2
			V	13.77	10.49	24.26	0.267	< 2
		1880.0	H	13.82	10.51	24.33	0.271	< 2
			V	13.28	10.51	23.79	0.239	< 2
		1905.0	H	14.38	10.52	24.90	0.309	< 2
			V	13.43	10.52	23.95	0.248	< 2
15MHz		1857.5	H	14.14	10.50	24.64	0.291	< 2
			V	12.66	10.50	23.16	0.207	< 2
		1880.0	H	13.24	10.50	23.74	0.237	< 2
			V	12.68	10.50	23.18	0.208	< 2
		1902.5	H	14.20	10.51	**24.71**	**0.296**	< 2
			V	12.82	10.52	23.34	0.216	< 2
20MHz		1860.0	H	14.04	10.50	24.54	0.284	< 2
			V	13.58	10.50	24.08	0.256	< 2
		1880.0	H	13.90	10.50	24.40	0.275	< 2
			V	13.05	10.49	23.54	0.226	< 2
		1900.0	H	14.20	10.50	**24.70**	**0.295**	< 2
			V	13.66	10.50	24.16	0.261	< 2

LTE Band 2								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
1.4MHz	16QAM	1850.7	H	10.75	10.49	**21.24**	**0.133**	< 2
			V	12.80	8.33	21.13	0.130	< 2
3MHz		1880.0	H	11.07	10.51	**21.58**	**0.144**	< 2
			V	10.95	10.51	21.46	0.140	< 2
5MHz		1880.0	H	13.16	10.50	**23.66**	**0.232**	< 2
			V	12.39	10.50	22.89	0.195	< 2
10MHz		1880.0	H	13.12	10.51	**23.63**	**0.231**	< 2
			V	12.55	10.51	23.06	0.202	< 2
15MHz		1880.0	H	12.48	10.50	**22.98**	**0.199**	< 2
			V	11.94	10.50	22.44	0.175	< 2
20MHz		1880.0	H	12.96	10.50	**23.46**	**0.222**	< 2
			V	12.13	10.49	22.62	0.183	< 2

LTE Band 4								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
1.4MHz	QPSK	1710.7	H	11.82	10.45	22.27	0.169	< 1
			V	15.08	7.22	22.30	0.170	< 1
		1732.5	H	12.31	10.45	22.76	0.189	< 1
			V	11.70	10.45	22.15	0.164	< 1
		1754.3	H	12.08	10.46	22.54	0.179	< 1
			V	12.40	10.46	**22.86**	**0.193**	< 1
3MHz		1711.5	H	13.37	10.44	**23.81**	**0.240**	< 1
			V	11.98	10.44	22.42	0.175	< 1
		1732.5	H	12.57	10.45	23.02	0.200	< 1
			V	12.49	10.45	22.94	0.197	< 1
		1753.5	H	13.26	10.45	23.71	0.235	< 1
			V	11.81	10.45	22.26	0.168	< 1
5MHz		1712.5	H	12.42	10.44	22.86	0.193	< 1
			V	11.77	10.44	22.21	0.166	< 1
		1732.5	H	12.76	10.45	23.21	0.209	< 1
			V	12.44	10.45	22.89	0.195	< 1
		1752.5	H	12.81	10.46	**23.27**	**0.212**	< 1
			V	11.98	10.46	22.44	0.175	< 1
10MHz		1715.0	H	12.60	10.45	23.05	0.202	< 1
			V	12.49	10.44	22.93	0.196	< 1
		1732.5	H	13.14	10.45	**23.59**	**0.229**	< 1
			V	15.35	7.35	22.70	0.186	< 1
		1750.0	H	15.64	7.51	23.15	0.207	< 1
			V	12.42	10.46	22.88	0.194	< 1
15MHz		1717.5	H	12.74	10.44	23.18	0.208	< 1
			V	12.39	10.44	22.83	0.192	< 1
		1732.5	H	13.09	10.45	**23.54**	**0.226**	< 1
			V	11.78	10.45	22.23	0.167	< 1
		1747.5	H	13.08	10.45	23.53	0.225	< 1
			V	12.32	10.46	22.78	0.190	< 1
20MHz		1720.0	H	13.25	10.44	23.69	0.234	< 1
			V	12.36	10.44	22.80	0.191	< 1
		1732.5	H	13.25	10.44	23.69	0.234	< 1
			V	12.46	10.44	22.90	0.195	< 1
		1745.0	H	13.34	10.45	**23.79**	**0.239**	< 1
			V	11.84	10.45	22.29	0.169	< 1

LTE Band 4								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
1.4MHz	16QAM	1732.5	H	11.56	10.45	**22.01**	**0.159**	< 1
			V	10.99	10.45	21.44	0.139	< 1
3MHz		1753.5	H	12.50	10.45	**22.95**	**0.197**	< 1
			V	11.11	10.45	21.56	0.143	< 1
5MHz		1732.5	H	11.81	10.45	**22.26**	**0.168**	< 1
			V	11.52	10.45	21.97	0.157	< 1
10MHz		1732.5	H	12.29	10.45	**22.74**	**0.188**	< 1
			V	14.47	7.35	21.82	0.152	< 1
15MHz		1747.5	H	12.45	10.45	**22.90**	**0.195**	< 1
			V	11.66	10.46	22.12	0.163	< 1
20MHz		1732.5	H	12.62	10.44	**23.06**	**0.202**	< 1
			V	11.84	10.44	22.28	0.169	< 1

LTE Band 5								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.R.P.		Limit (W)
						(dBm)	(W)	
1.4MHz	QPSK	824.7	H	10.67	9.80	22.62	0.183	< 7
			V	10.49	9.81	22.45	0.176	< 7
		836.5	H	11.05	9.92	**23.12**	**0.205**	< 7
			V	9.98	9.92	22.05	0.160	< 7
		848.3	H	9.05	10.31	21.51	0.142	< 7
			V	8.99	10.31	21.45	0.140	< 7
3MHz		825.5	H	11.49	9.80	**23.44**	**0.221**	< 7
			V	10.20	9.80	22.15	0.164	< 7
		836.5	H	10.65	9.91	22.71	0.187	< 7
			V	10.42	9.91	22.48	0.177	< 7
		847.5	H	9.66	10.24	22.05	0.160	< 7
			V	8.76	10.23	21.14	0.130	< 7
5MHz		826.5	H	11.08	9.80	**23.03**	**0.201**	< 7
			V	10.44	9.81	22.40	0.174	< 7
		836.5	H	10.97	9.90	23.02	0.200	< 7
			V	9.90	9.90	21.95	0.157	< 7
		846.5	H	9.89	10.16	22.20	0.166	< 7
			V	9.01	10.16	21.32	0.136	< 7
10MHz		829.0	H	10.79	9.81	**22.75**	**0.188**	< 7
			V	9.78	9.81	21.74	0.149	< 7
		836.5	H	10.65	9.88	22.68	0.185	< 7
			V	9.61	9.88	21.64	0.146	< 7
		844.0	H	10.09	9.95	22.19	0.166	< 7
			V	9.53	9.95	21.63	0.146	< 7
1.4MHz	16QAM	836.5	H	10.27	9.92	**22.34**	**0.171**	< 7
			V	9.23	9.92	21.30	0.135	< 7
3MHz		847.5	H	8.83	10.24	**21.22**	**0.132**	< 7
			V	7.96	10.23	20.34	0.108	< 7
5MHz		836.5	H	10.12	9.90	**22.17**	**0.165**	< 7
			V	9.07	9.90	21.12	0.129	< 7
10MHz		844.0	H	9.40	9.95	**21.50**	**0.141**	< 7
			V	8.81	9.95	20.91	0.123	< 7

LTE Band 17								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.R.P.		Limit (W)
						(dBm)	(W)	
5MHz	QPSK	706.5	H	15.82	4.92	22.89	0.195	< 3
			V	14.79	4.92	21.86	0.153	< 3
		710.0	H	16.72	5.01	**23.88**	**0.244**	< 3
			V	15.62	5.01	22.78	0.190	< 3
		713.5	H	15.74	5.11	23.00	0.200	< 3
			V	15.27	5.10	22.52	0.179	< 3
10MHz		709.0	H	18.19	4.93	**25.27**	**0.337**	< 3
			V	13.33	8.20	23.68	0.233	< 3
		710.0	H	17.57	4.95	24.67	0.293	< 3
			V	13.26	8.22	23.63	0.231	< 3
		711.0	H	17.84	4.98	24.97	0.314	< 3
			V	13.35	8.26	23.76	0.238	< 3
5MHz	16QAM	710.0	H	15.82	5.01	**22.98**	**0.199**	< 3
			V	14.70	5.01	21.86	0.153	< 3
10MHz		710.0	H	16.92	4.95	**24.02**	**0.252**	< 3
			V	12.63	8.22	23.00	0.200	< 3

4 Frequency Stability Test

4.1. Limit

According to the FCC part 27.54 shall be tested the frequency stability. The rule is defined that" The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation. The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with the 2.1055(a)(1) -30℃ ~ 50℃.

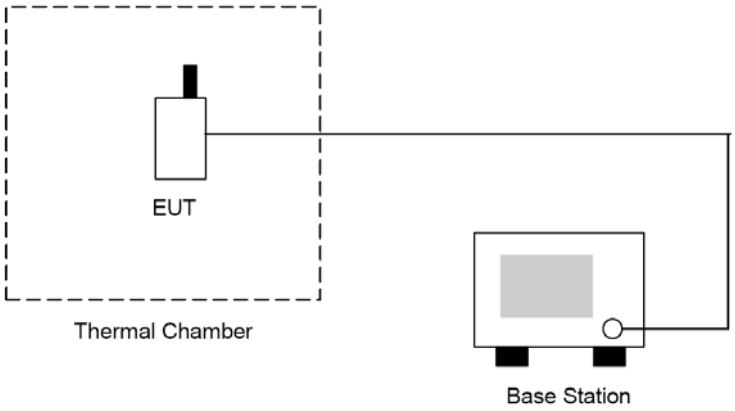
4.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Wideband Radio Communication Test	R & S	CMW500	103168	12/01/2011	(1)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	08/24/2011	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

4.3. Setup



4.4. Test Procedure

The measurement is made according to FCC rules part 27:

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to -30℃ and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
3. With power OFF, the temperature was raised in 10℃ steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The EUT was placed in a temperature chamber at 25±5 ℃ and connected as the following section.
5. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
6. The temperature tests were performed for the worst case.
7. Test data was recorded.

4.5. Uncertainty

The measurement uncertainty is defined as for Frequency Stability measurement is ± 10Hz.

4.6. Test Result

Model Number	AirCard 770S		
Test Item	Frequency Stability		
Date of Test	10/18/2012	Test Site	TE05

LTE Band 2 _ QPSK					
Voltage					
Channel Bandwidth	Frequency (MHz)	Voltage (Vac)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20MHz	1880.0	4.25	-3	-0.002	± 2.5
		3.70	2	0.001	± 2.5
		3.50	5	0.003	± 2.5
Temperature					
Channel Bandwidth	Frequency (MHz)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20MHz	1880.0	-30	-7	-0.004	± 2.5
		-20	4	0.002	± 2.5
		-10	-5	-0.003	± 2.5
		0	-2	-0.001	± 2.5
		10	-8	-0.004	± 2.5
		20	-4	-0.002	± 2.5
		30	-2	-0.001	± 2.5
		40	-7	-0.004	± 2.5
		50	-6	-0.003	± 2.5

LTE Band 4 _ QPSK					
Voltage					
Channel Bandwidth	Frequency (MHz)	Voltage (Vac)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20MHz	1732.5	4.25	1	0.001	± 2.5
		3.70	3	0.002	± 2.5
		3.50	-4	-0.002	± 2.5
Temperature					
Channel Bandwidth	Frequency (MHz)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20MHz	1732.5	-30	-8	-0.005	± 2.5
		-20	-2	-0.001	± 2.5
		-10	5	0.003	± 2.5
		0	-1	-0.001	± 2.5
		10	4	0.002	± 2.5
		20	3	0.002	± 2.5
		30	7	0.004	± 2.5
		40	-5	-0.003	± 2.5
		50	6	0.003	± 2.5

LTE Band 5 _ QPSK					
Voltage					
Channel Bandwidth	Frequency (MHz)	Voltage (Vdc)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10MHz	836.5	4.25	-1	-0.001	± 2.5
		3.70	-4	-0.005	± 2.5
		3.50	-2	-0.002	± 2.5
Temperature					
Channel Bandwidth	Frequency (MHz)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10MHz	836.5	-30	3	0.004	± 2.5
		-20	2	0.002	± 2.5
		-10	-1	-0.001	± 2.5
		0	4	0.005	± 2.5
		10	5	0.006	± 2.5
		20	3	0.004	± 2.5
		30	2	0.002	± 2.5
		40	-5	-0.006	± 2.5
		50	1	0.001	± 2.5

LTE Band 17 _ QPSK					
Voltage					
Channel Bandwidth	Frequency (MHz)	Voltage (Vdc)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10MHz	710.0	4.25	-5	-0.007	± 2.5
		3.70	-1	-0.001	± 2.5
		3.50	-4	-0.006	± 2.5
Temperature					
Channel Bandwidth	Frequency (MHz)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10MHz	710.0	-30	2	0.003	± 2.5
		-20	3	0.004	± 2.5
		-10	-4	-0.006	± 2.5
		0	1	0.001	± 2.5
		10	-2	-0.003	± 2.5
		20	-6	-0.008	± 2.5
		30	-2	-0.003	± 2.5
		40	-5	-0.007	± 2.5
		50	1	0.001	± 2.5

5 26dB Bandwidth and Occupied Bandwidth Test

5.1. Limit

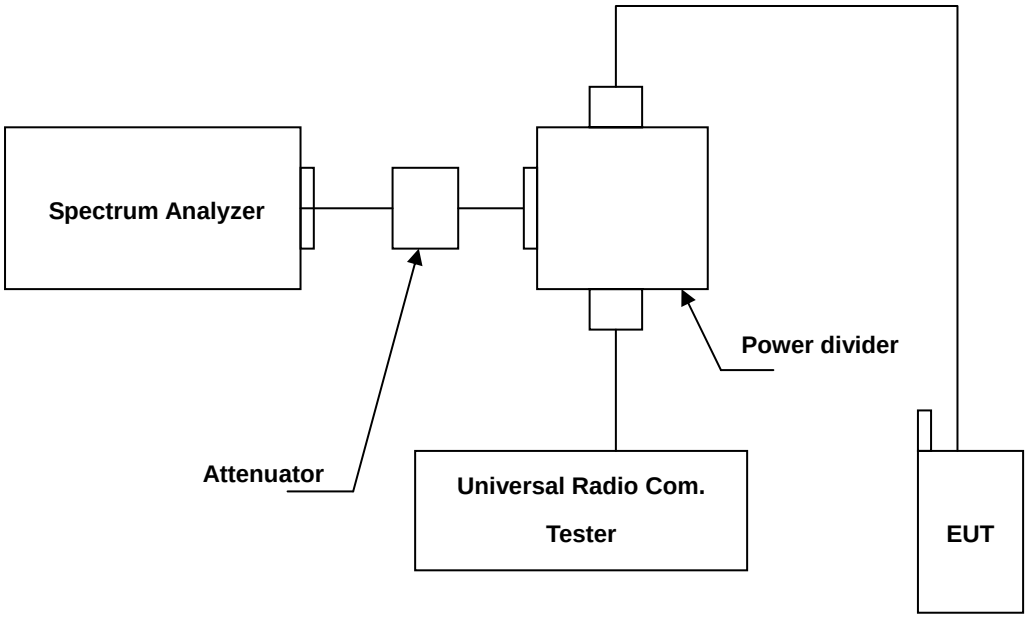
The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.
The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

5.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/10/2012	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	12/01/2011	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.
Note: N.C.R. = No Calibration Request.

5.3. Setup



5.4. Test Procedure

The measurement is made according to FCC rules part 27:

a. The EUT makes a phone call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels. (low, middle and high operational frequency range.)

b. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

c. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

5.5. Uncertainty

The measurement uncertainty is defined as ± 10Hz

5.6. Test Result

Model Number	AirCard 770S		
Test Item	26dB Bandwidth and Occupied Bandwidth		
Date of Test	10/16/2012	Test Site	TE05

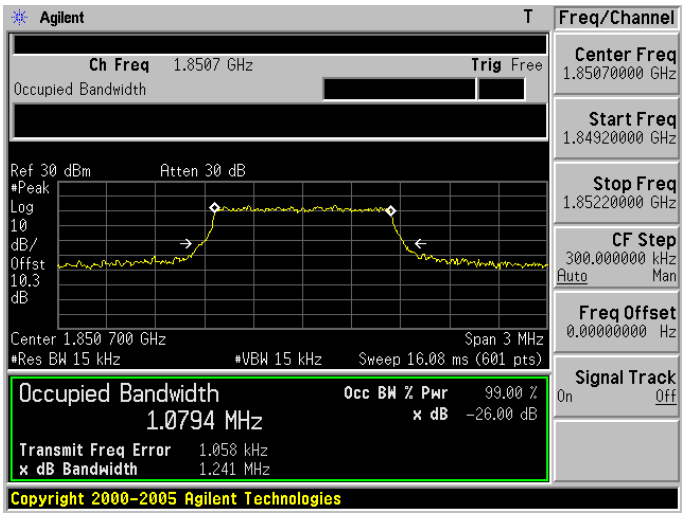
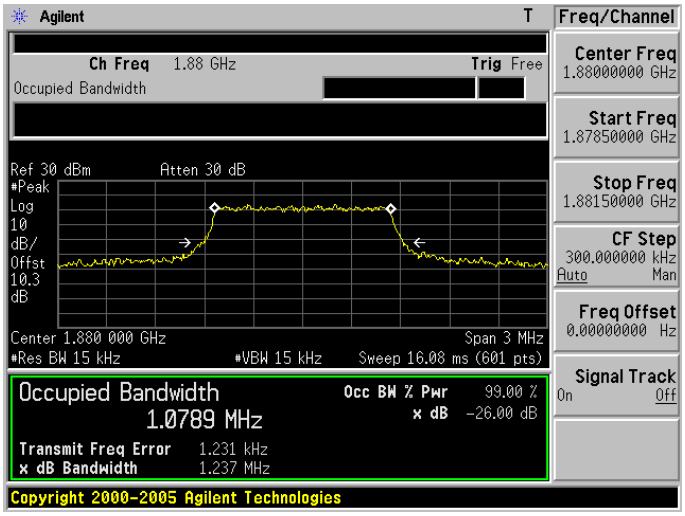
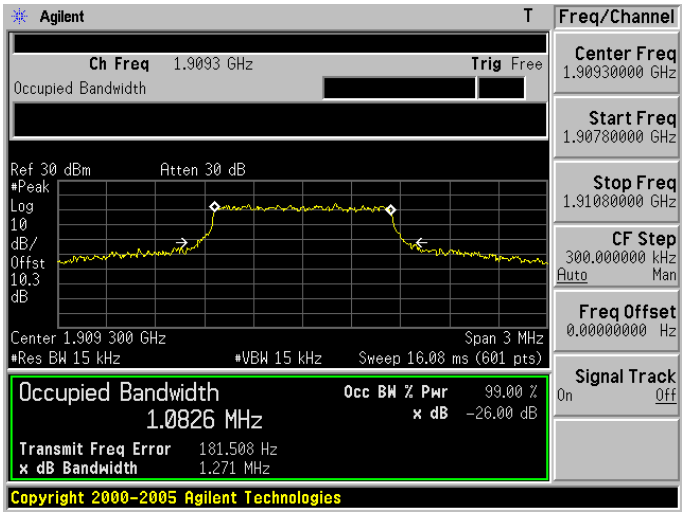
LTE Band 2				
Channel Bandwidth	Modulation	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
1.4MHz	QPSK	1850.7	1.241	1.0794
		1880.0	1.237	1.0789
		1909.3	1.271	1.0826
3MHz	QPSK	1851.5	2.962	2.6877
		1880.0	3.002	2.6893
		1908.5	2.979	2.6934
5MHz	QPSK	1852.5	4.926	4.4771
		1880.0	4.939	4.4716
		1907.5	4.978	4.4777
10MHz	QPSK	1855.0	9.760	8.9556
		1880.0	9.727	8.9521
		1905.0	9.694	8.9261
15MHz	QPSK	1857.5	14.552	13.3973
		1880.0	14.421	13.3914
		1902.5	14.433	13.3572
20MHz	QPSK	1860.0	19.174	17.8245
		1880.0	19.187	17.9035
		1900.0	19.295	17.8563
1.4MHz	16QAM	1850.7	1.258	1.0792
		1880.0	1.250	1.0806
		1909.3	1.255	1.0808
3MHz	16QAM	1851.5	2.949	2.6832
		1880.0	2.970	2.6853
		1908.5	2.962	2.6827
5MHz	16QAM	1852.5	4.950	4.4647
		1880.0	4.936	4.4681
		1907.5	4.958	4.4719
10MHz	16QAM	1855.0	9.600	8.8994
		1880.0	9.603	8.9296
		1905.0	9.643	8.9259
15MHz	16QAM	1857.5	14.542	13.3880
		1880.0	14.499	13.3986
		1902.5	14.346	13.3817
20MHz	16QAM	1860.0	19.268	17.8808
		1880.0	19.130	17.8623
		1900.0	19.209	17.7907

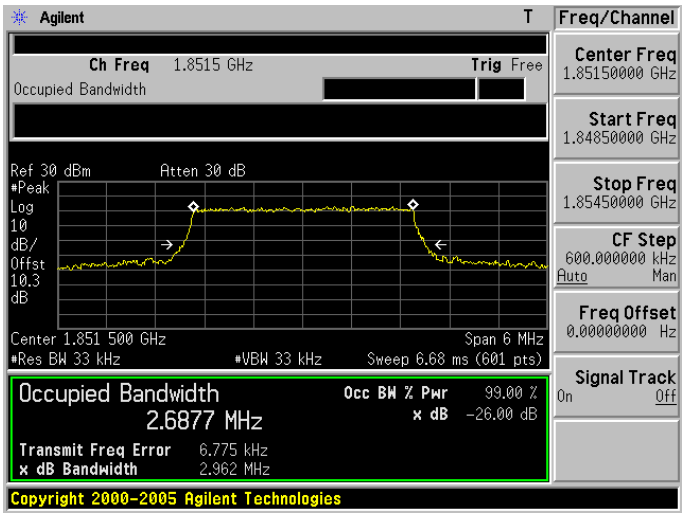
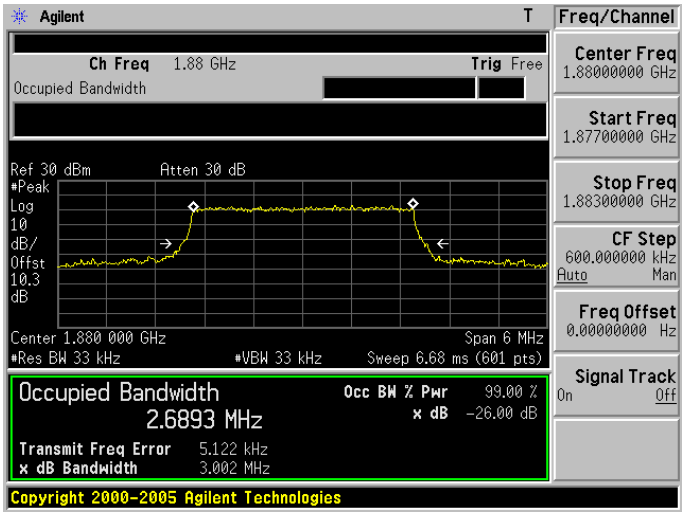
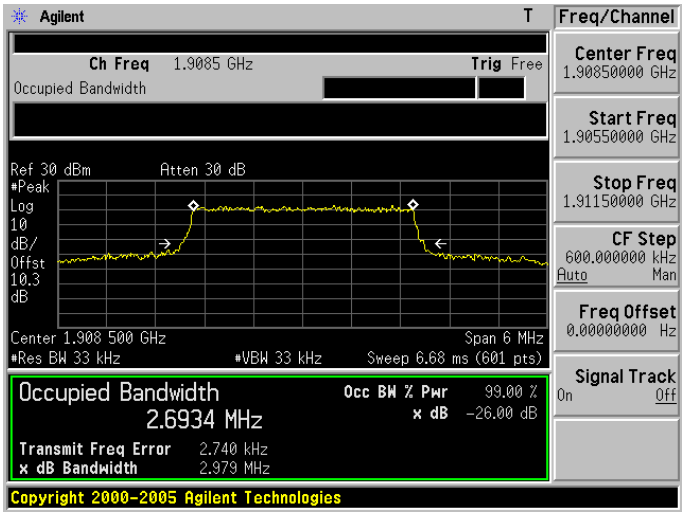
LTE Band 4				
Channel Bandwidth	Modulation	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
1.4MHz	QPSK	1710.7	1.248	1.0801
		1732.5	1.226	1.0784
		1754.3	1.249	1.0779
3MHz	QPSK	1711.5	3.002	2.6865
		1732.5	3.007	2.6892
		1753.5	2.975	2.6910
5MHz	QPSK	1712.5	4.923	4.4706
		1732.5	4.921	4.4731
		1752.5	4.919	4.4704
10MHz	QPSK	1715.0	9.648	8.9454
		1732.5	9.670	8.9492
		1750.0	9.716	8.9592
15MHz	QPSK	1717.5	14.318	13.3566
		1732.5	14.429	13.3859
		1747.5	14.343	13.4484
20MHz	QPSK	1720.0	19.192	17.8232
		1732.5	19.297	17.8536
		1745.0	19.269	17.9027
1.4MHz	16QAM	1710.7	1.263	1.0807
		1732.5	1.247	1.0793
		1754.3	1.246	1.0809
3MHz	16QAM	1711.5	2.964	2.6867
		1732.5	2.969	2.6864
		1753.5	2.946	2.6781
5MHz	16QAM	1712.5	4.857	4.4661
		1732.5	4.898	4.4695
		1752.5	4.910	4.4713
10MHz	16QAM	1715.0	9.536	8.9177
		1732.5	9.679	8.9343
		1750.0	9.601	8.9350
15MHz	16QAM	1717.5	14.519	13.3601
		1732.5	14.516	13.4148
		1747.5	14.756	13.3852
20MHz	16QAM	1720.0	18.968	17.8653
		1732.5	19.237	17.8553
		1745.0	19197	17.8661

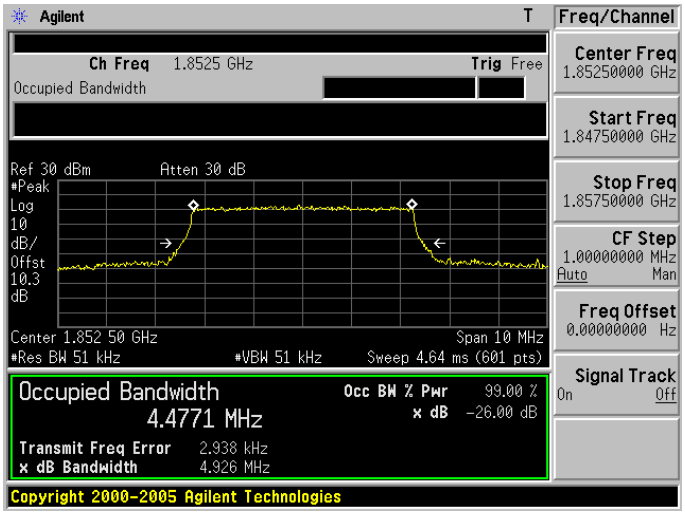
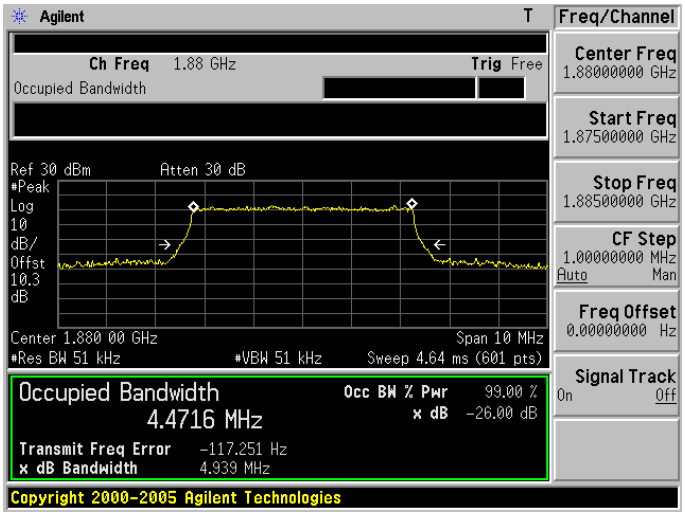
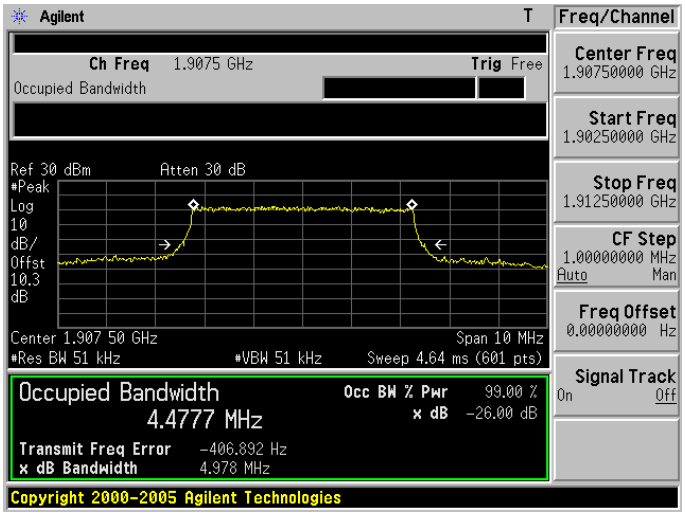
LTE Band 5				
Channel Bandwidth	Modulation	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
1.4MHz	QPSK	824.7	1.248	1.0772
		836.5	1.245	1.0771
		848.3	1.247	1.0805
3MHz	QPSK	825.5	2.999	2.6843
		836.5	2.959	2.6869
		847.5	2.967	2.6869
5MHz	QPSK	826.5	4.908	4.4759
		836.5	4.846	4.4716
		846.5	4.883	4.4664
10MHz	QPSK	829.0	9.769	8.9214
		836.5	9.798	8.9245
		844.0	9.687	8.9357
1.4MHz	16QAM	824.7	1.240	1.0827
		836.5	1.239	1.0775
		848.3	1.254	1.0791
3MHz	16QAM	825.5	2.969	2.6785
		836.5	2.951	2.6826
		847.5	2.948	2.6808
5MHz	16QAM	826.5	4.971	4.4673
		836.5	4.884	4.4718
		846.5	4.906	4.4623
10MHz	16QAM	829.0	9.499	8.9142
		836.5	9.593	8.9375
		844.0	9.572	8.8962

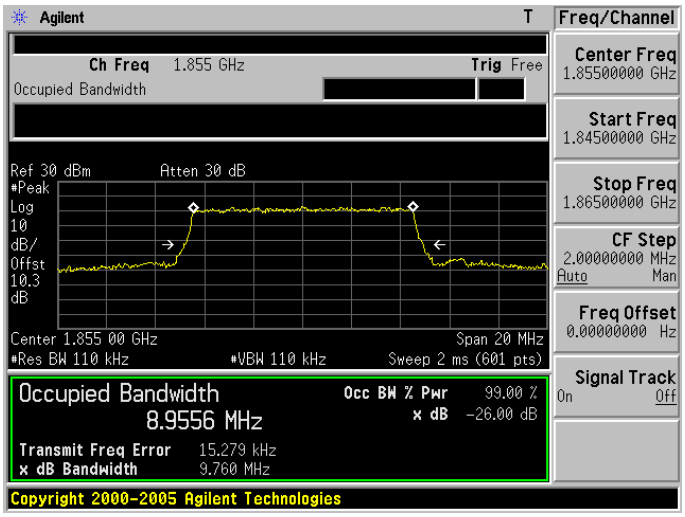
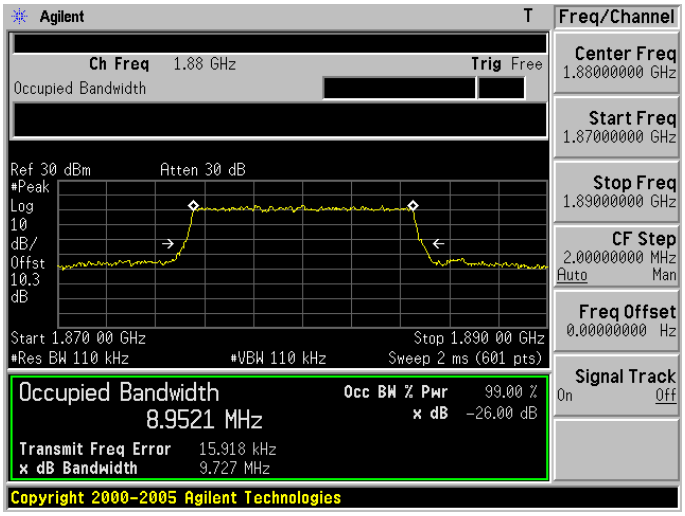
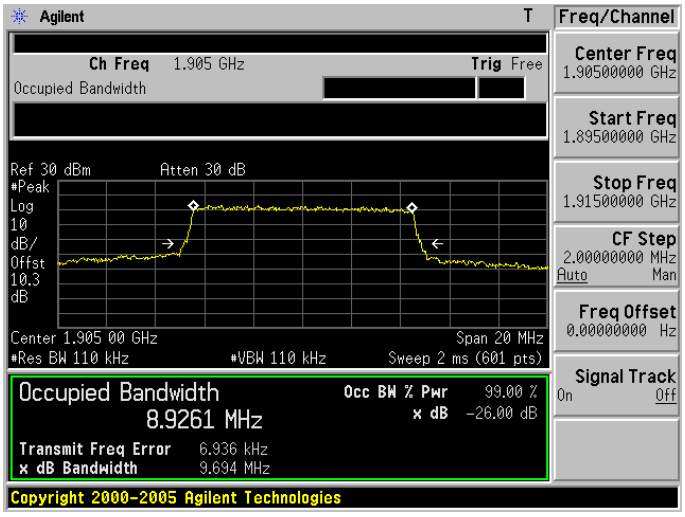
LTE Band 17				
Channel Bandwidth	Modulation	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
5MHz	QPSK	706.5	4.971	4.4828
		710.0	4.853	4.4728
		713.5	4.865	4.4711
10MHz	QPSK	709.0	9.704	8.9379
		710.0	9.564	8.9038
		711.0	9.569	8.8887
5MHz	16QAM	706.5	4.913	4.4801
		710.0	4.800	4.4648
		713.5	4.862	4.4534
10MHz	16QAM	709.0	9.517	8.9082
		710.0	9.582	8.9037
		711.0	9.454	8.8608

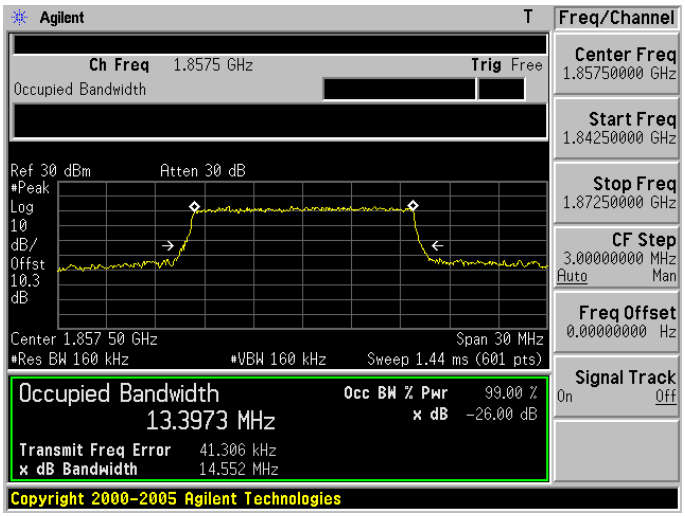
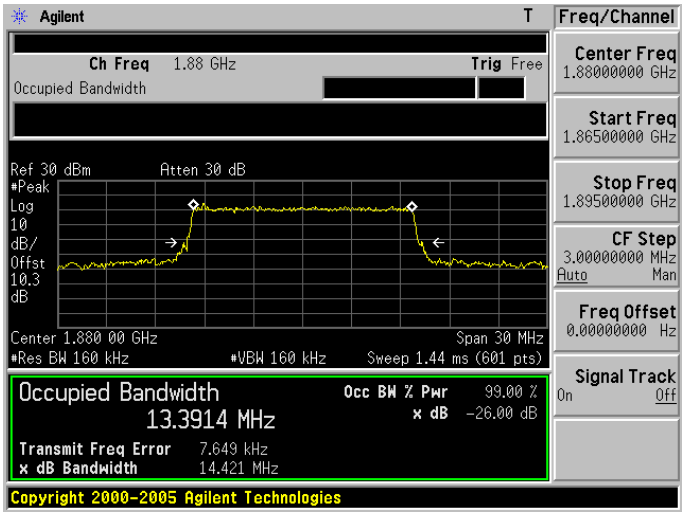
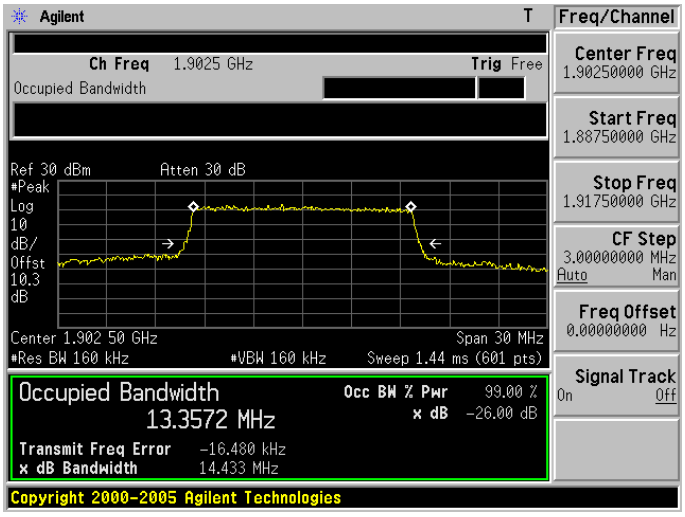
5.7. Test Graphs

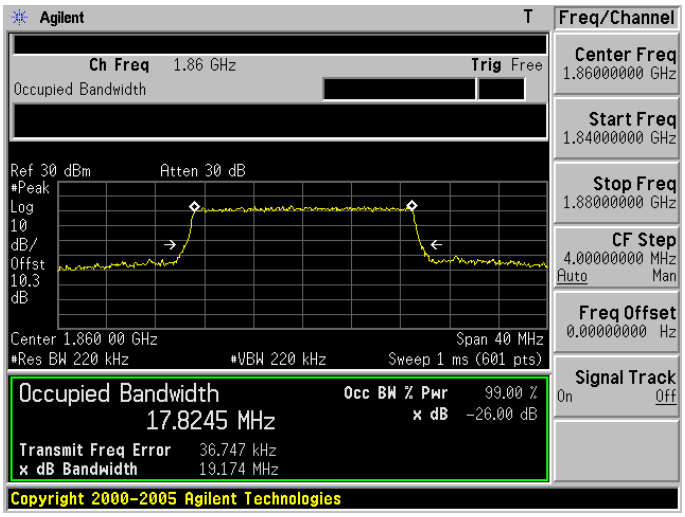
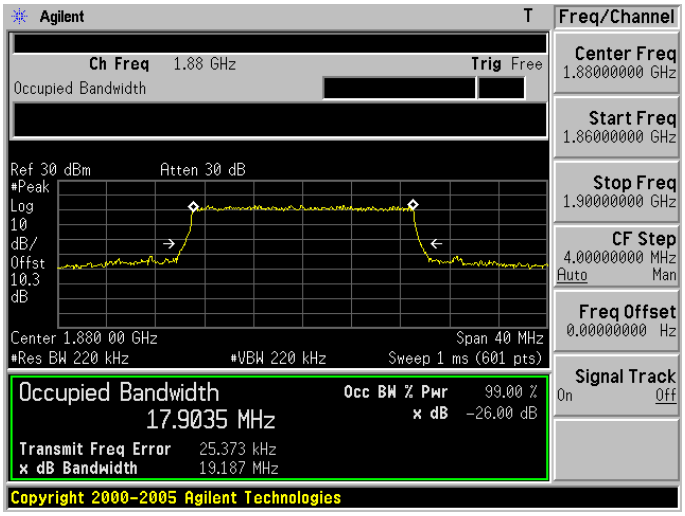
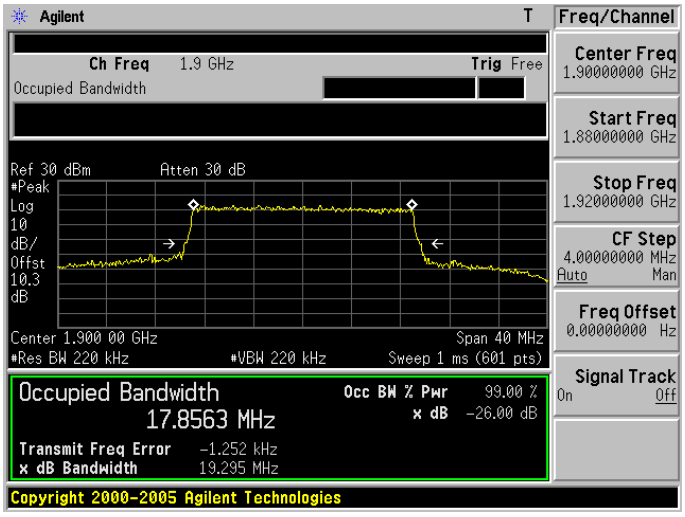
LTE Band 2 (Channel Bandwidth: 1.4MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

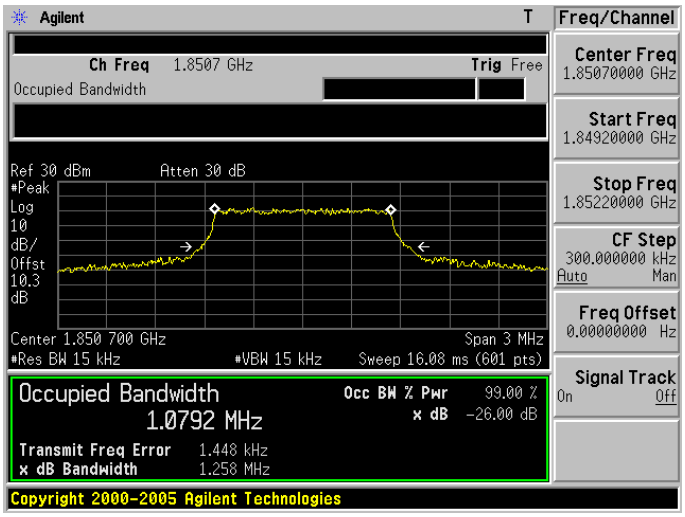
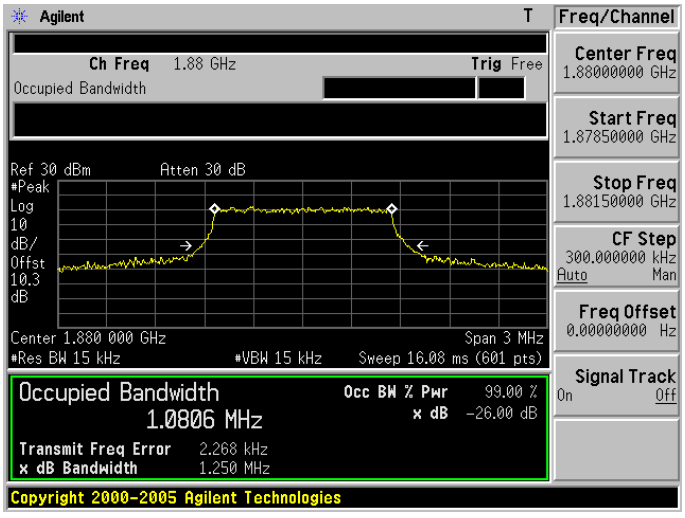
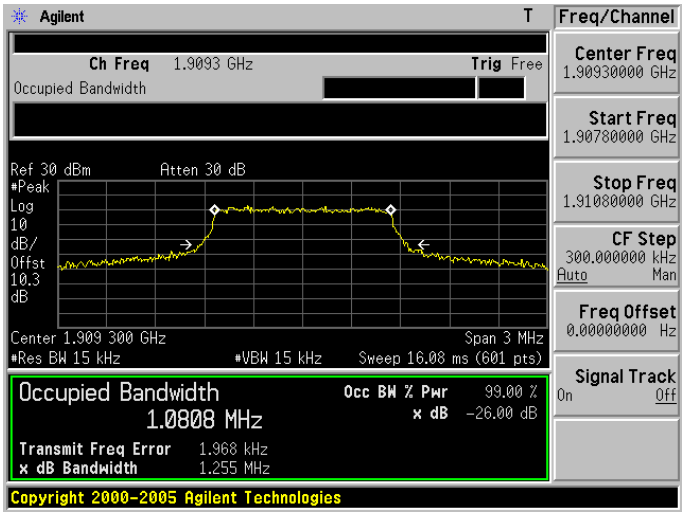
LTE Band 2 (Channel Bandwidth: 3MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

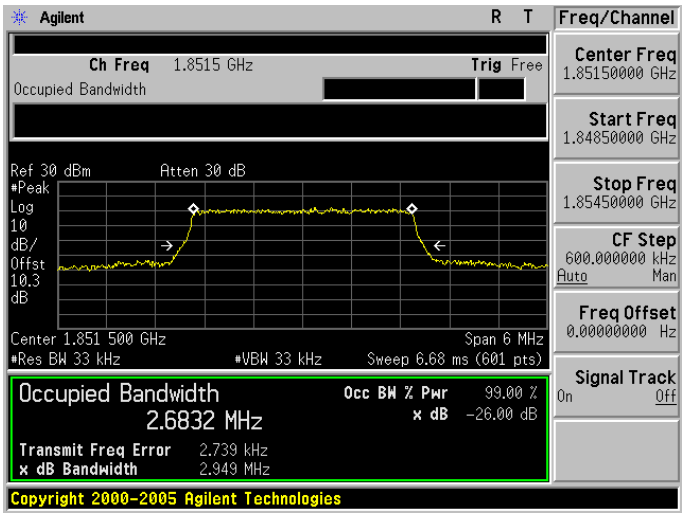
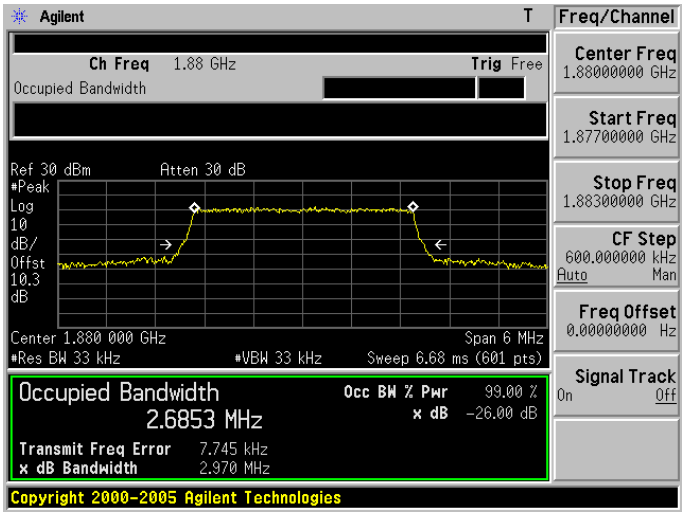
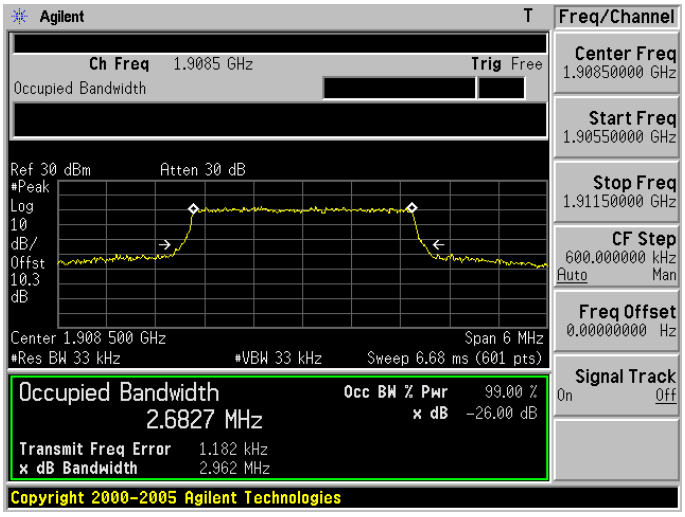
LTE Band 2 (Channel Bandwidth: 5MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

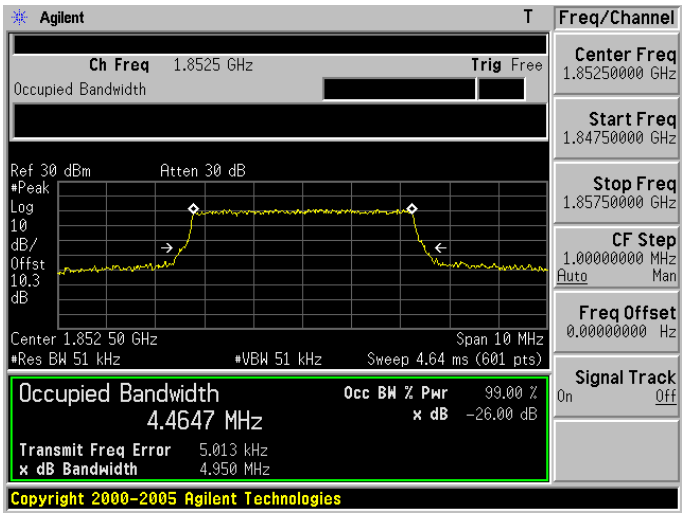
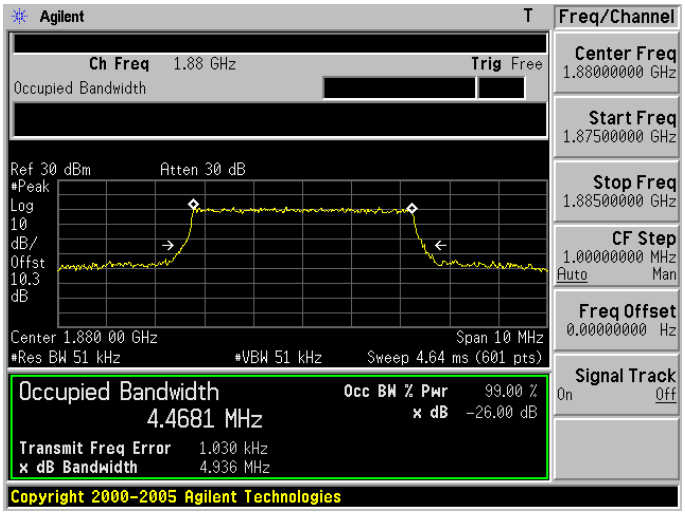
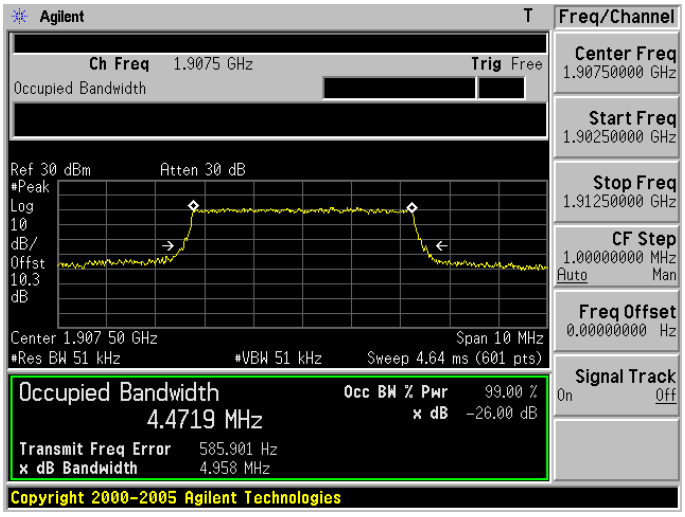
LTE Band 2 (Channel Bandwidth: 10MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

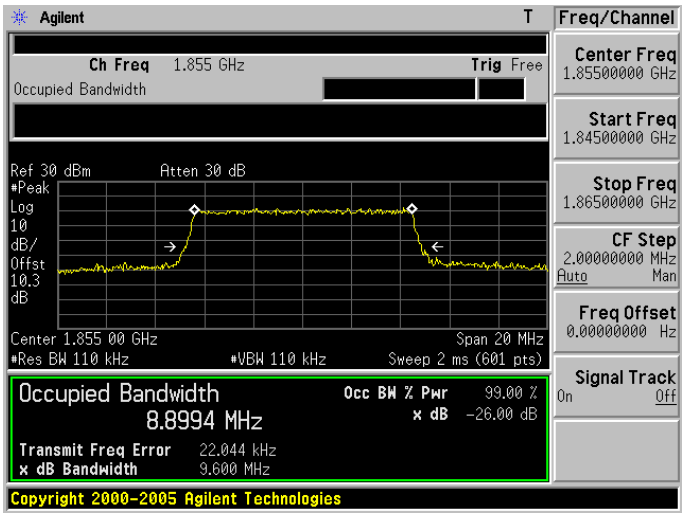
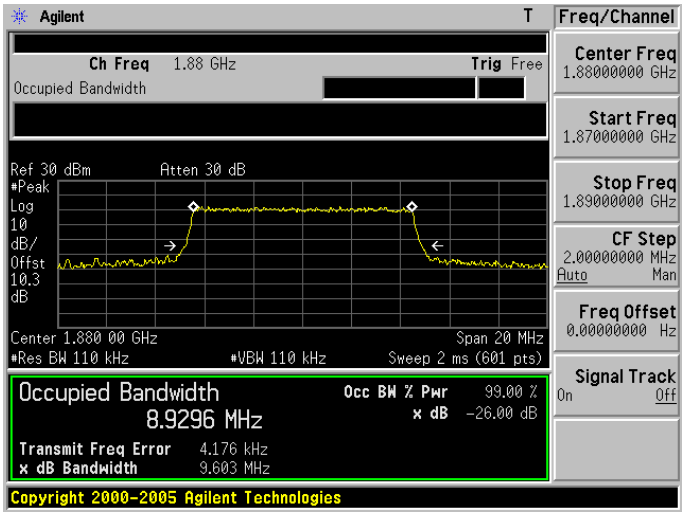
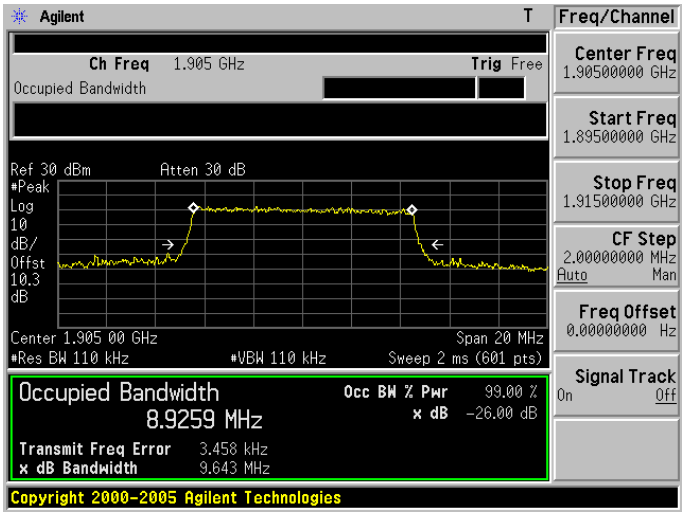
LTE Band 2 (Channel Bandwidth: 15MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

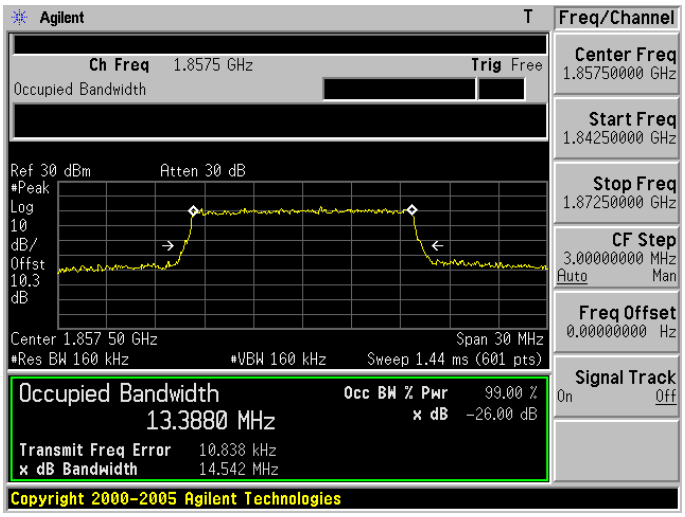
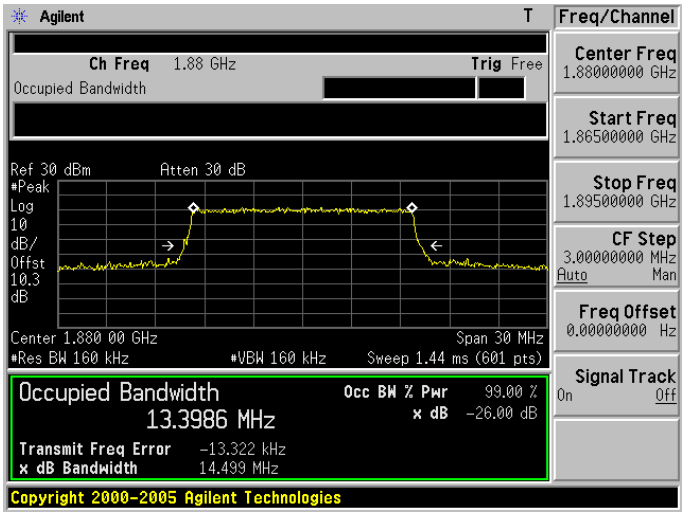
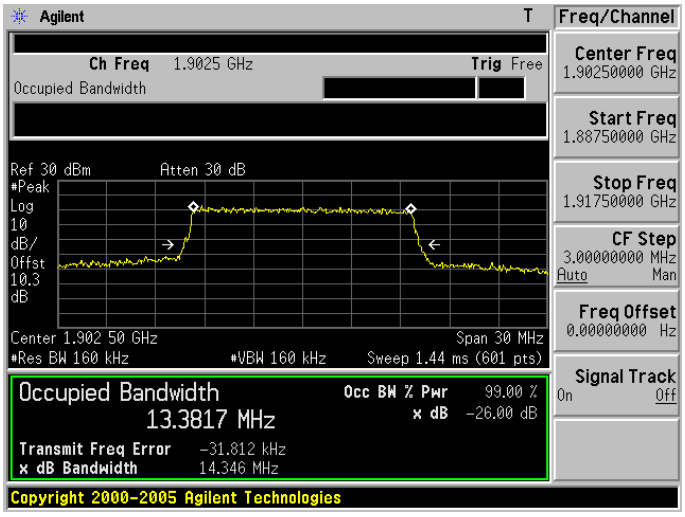
LTE Band 2 (Channel Bandwidth: 20MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

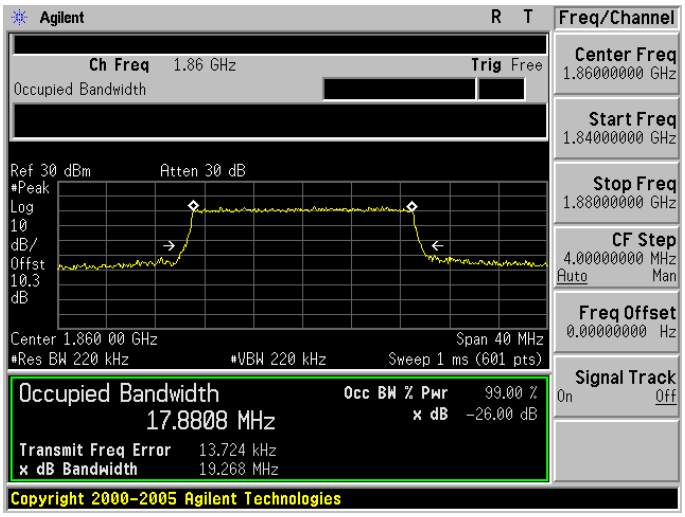
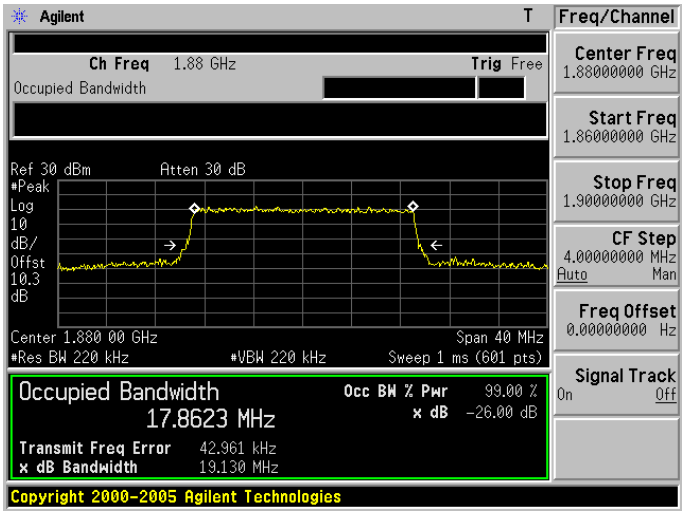
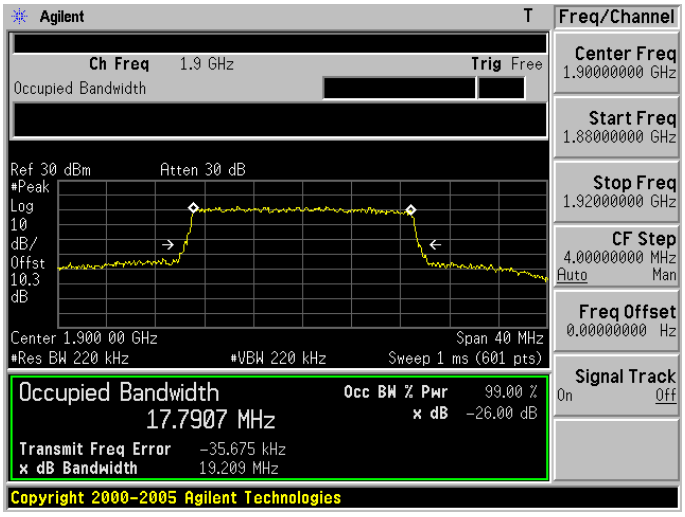
LTE Band 2 (Channel Bandwidth: 1.4MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

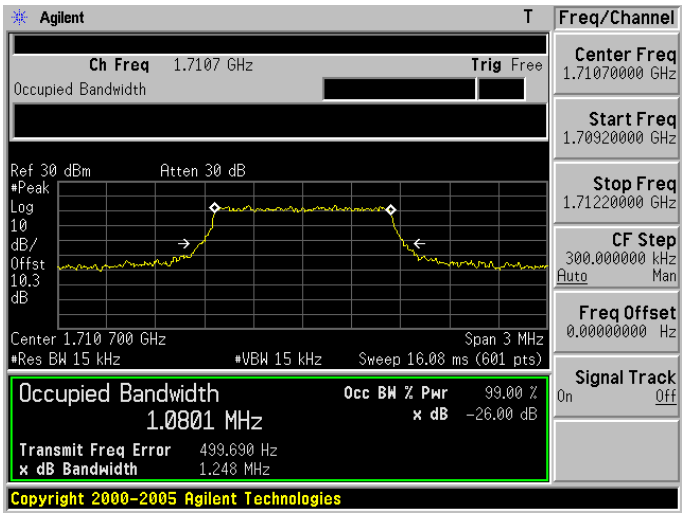
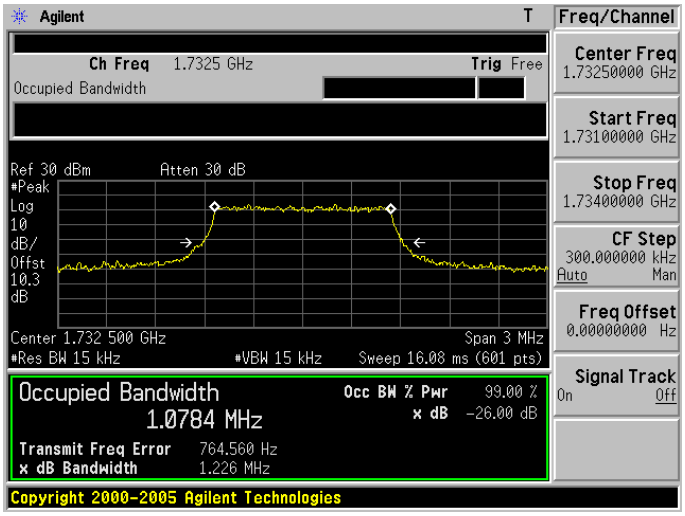
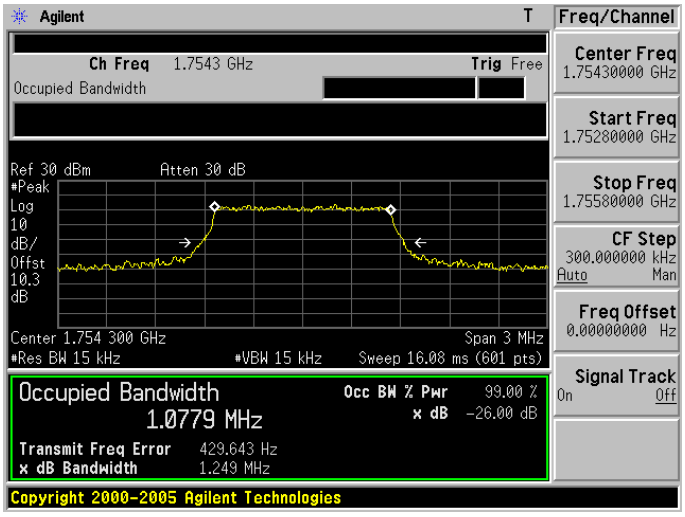
LTE Band 2 (Channel Bandwidth: 3MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

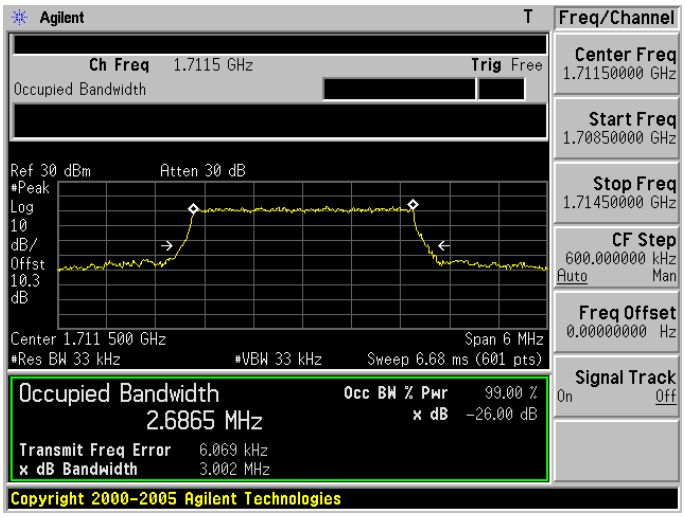
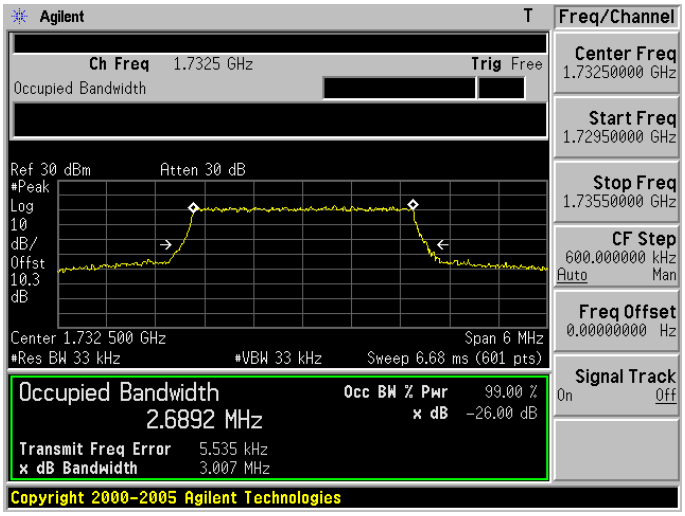
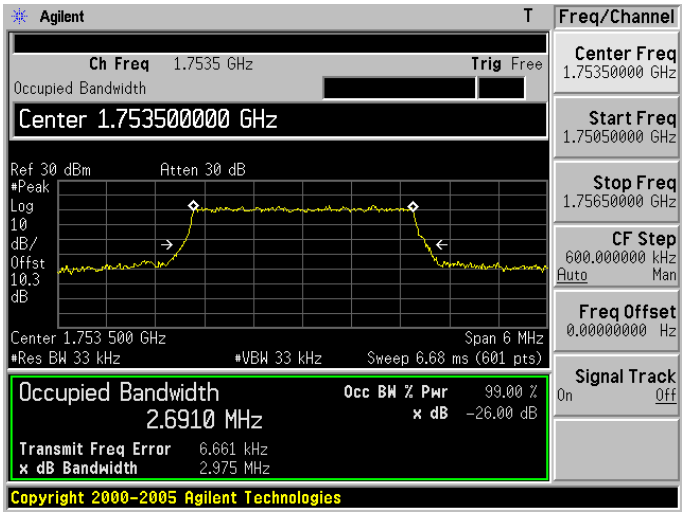
LTE Band 2 (Channel Bandwidth: 5MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

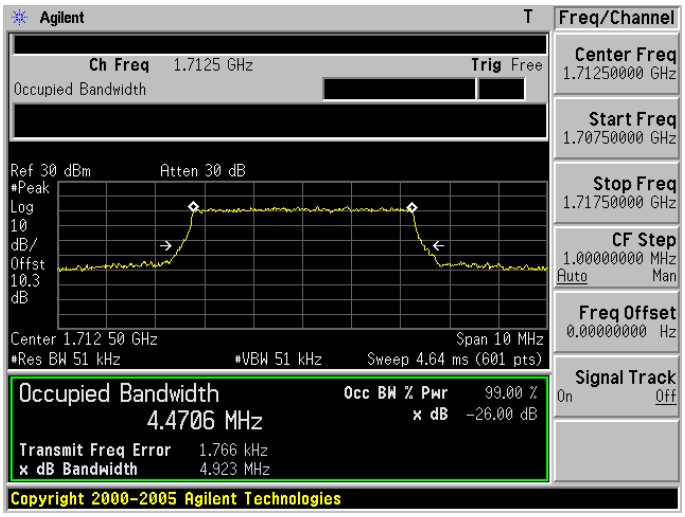
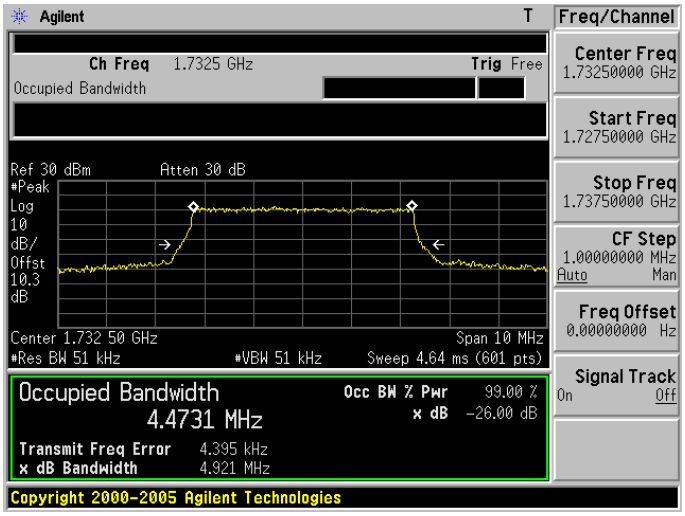
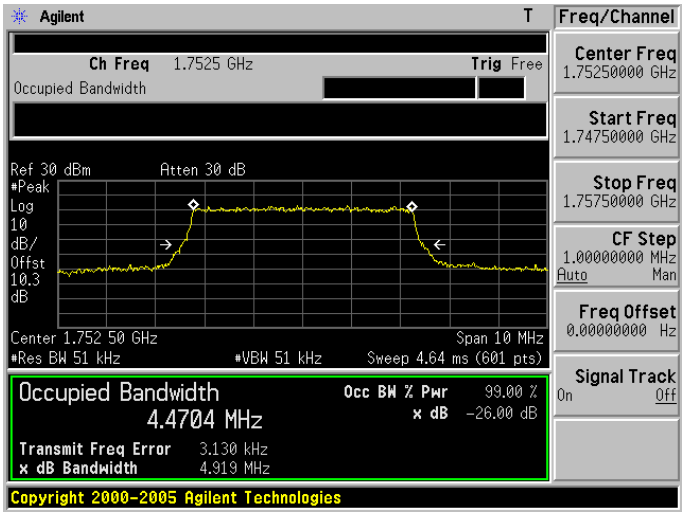
LTE Band 2 (Channel Bandwidth: 10MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

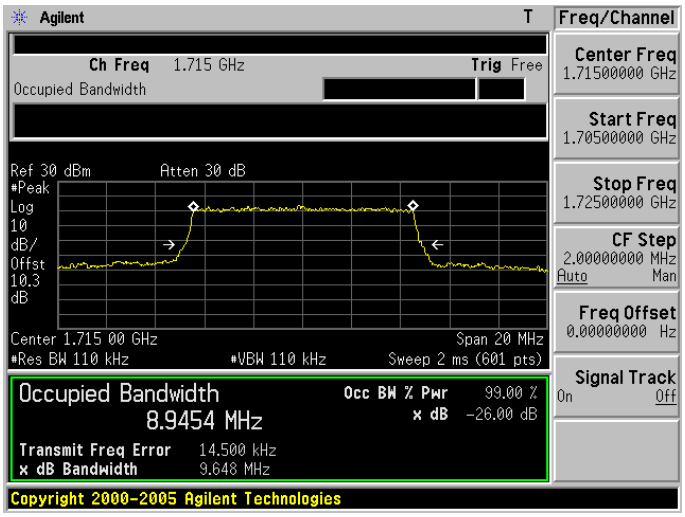
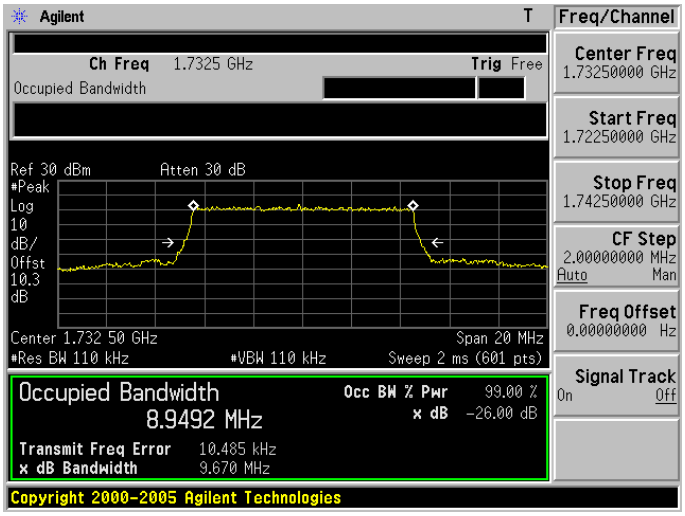
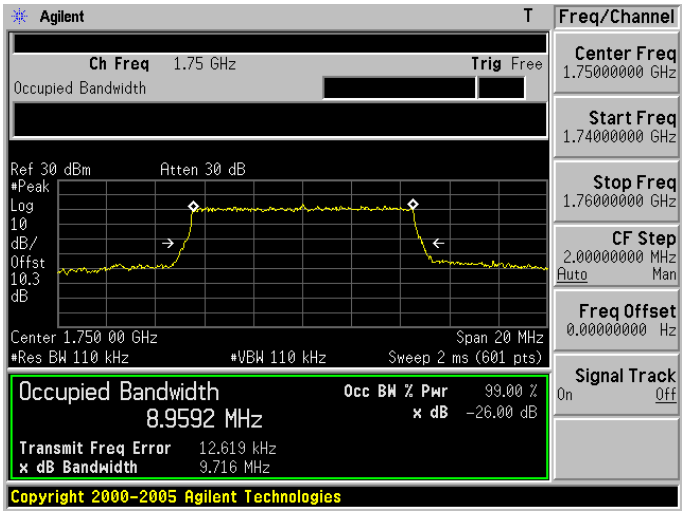
LTE Band 2 (Channel Bandwidth: 15MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

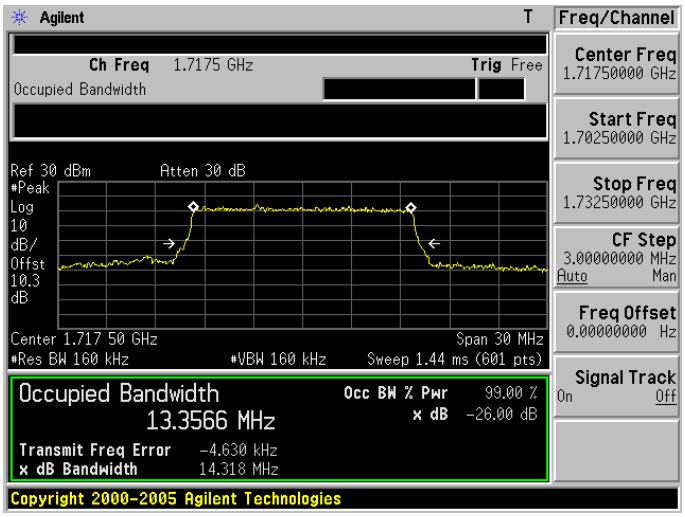
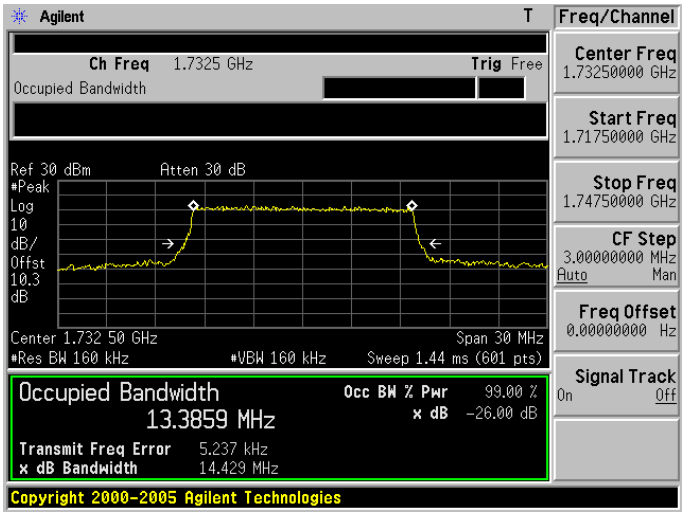
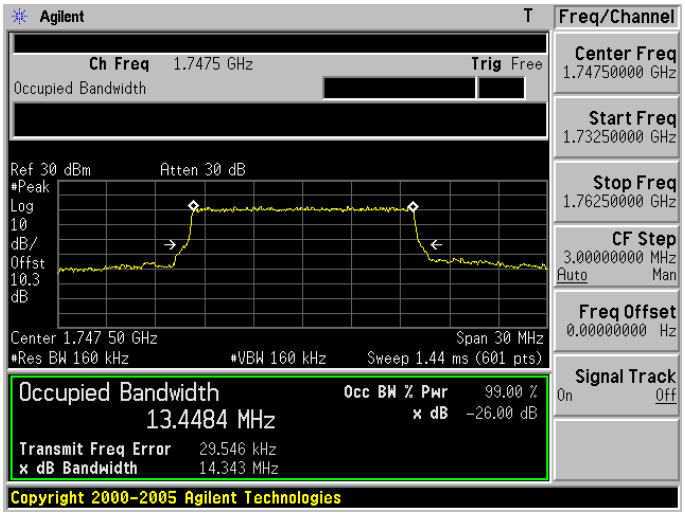
LTE Band 2 (Channel Bandwidth: 20MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

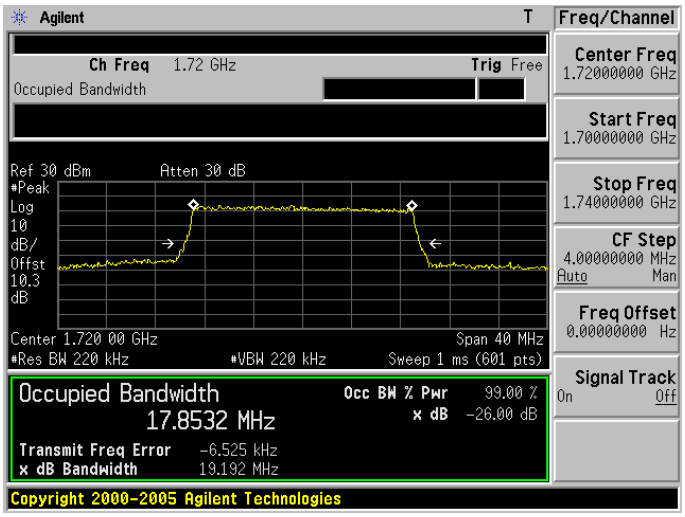
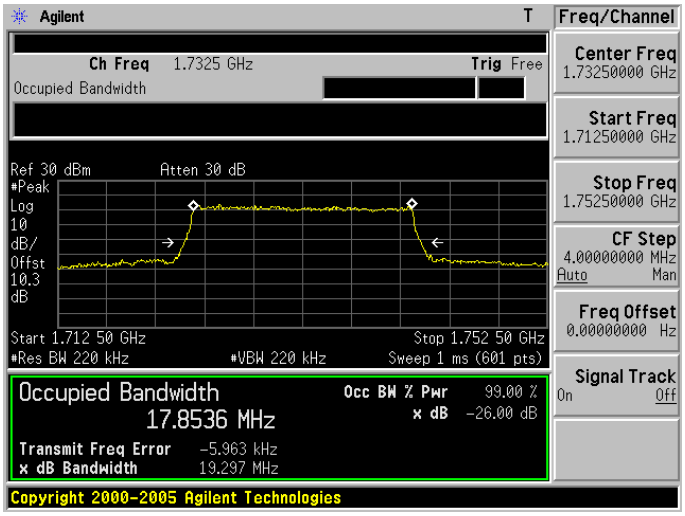
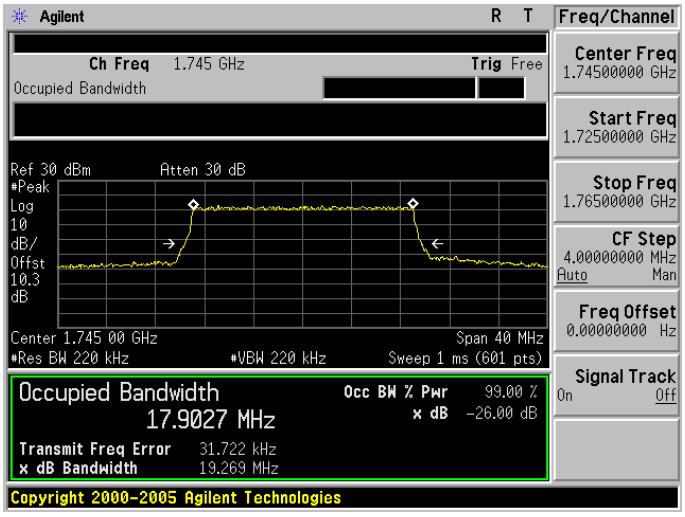
LTE Band 4 (Channel Bandwidth: 1.4MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

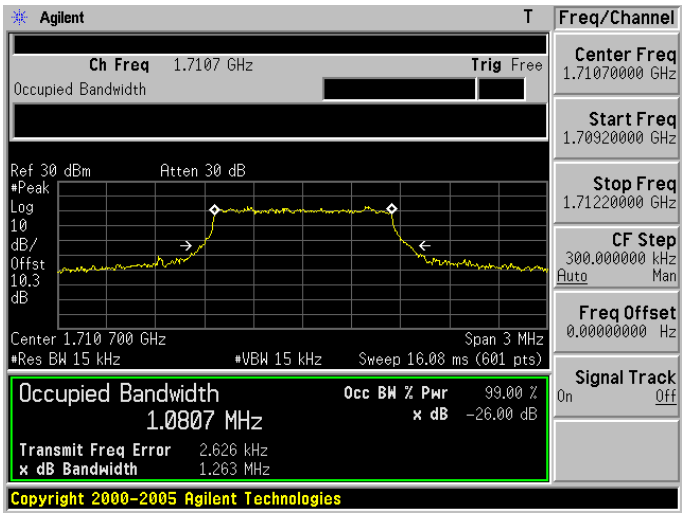
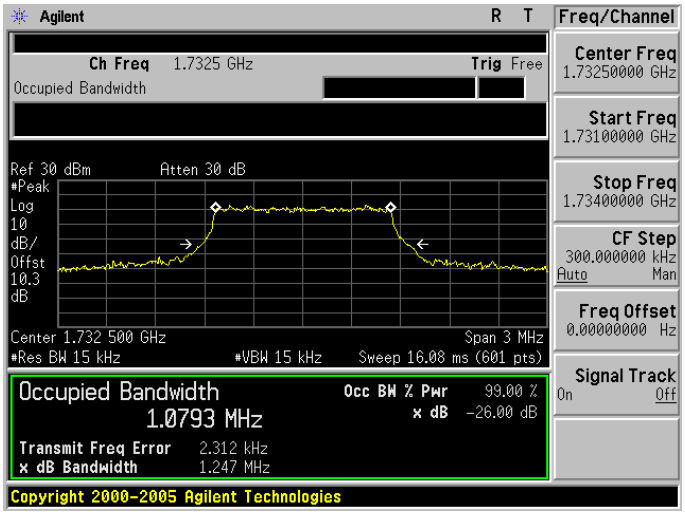
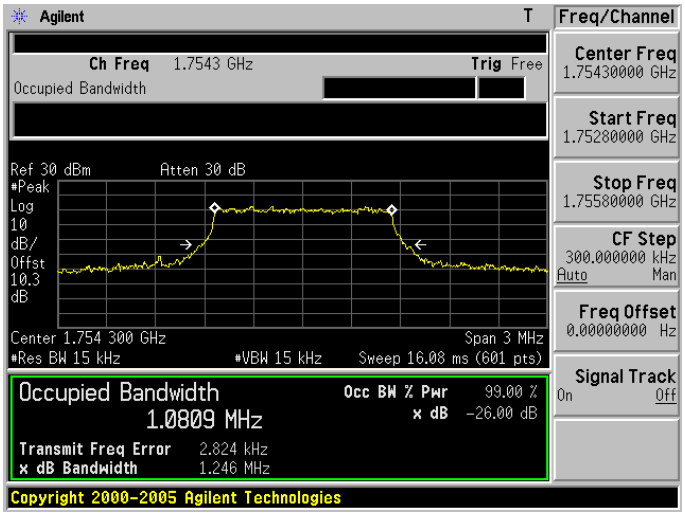
LTE Band 4 (Channel Bandwidth: 3MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

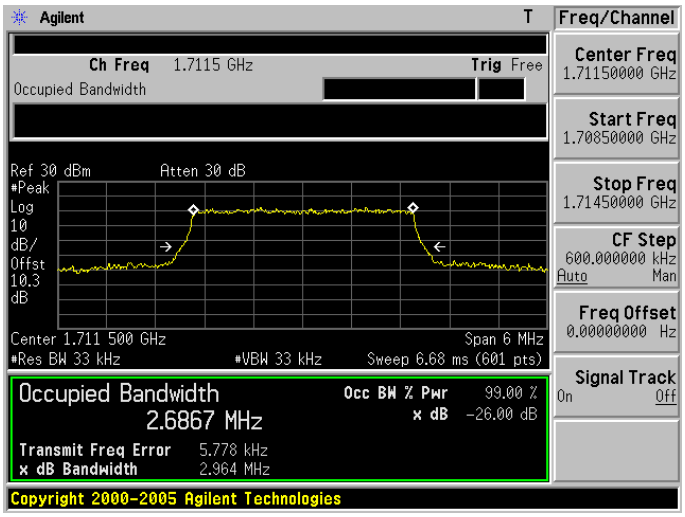
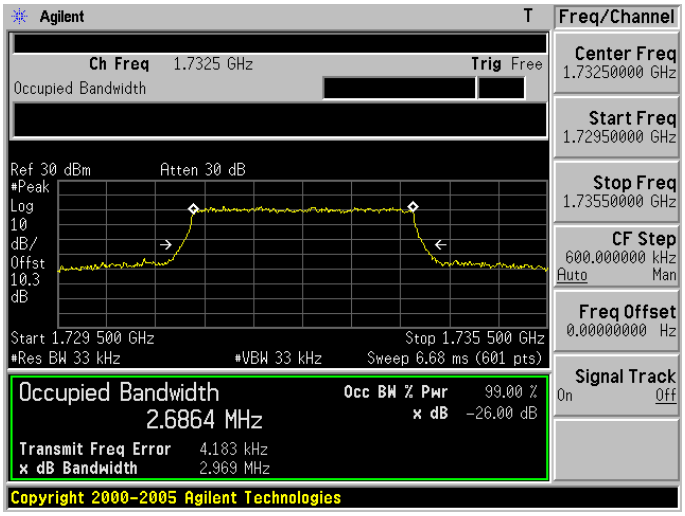
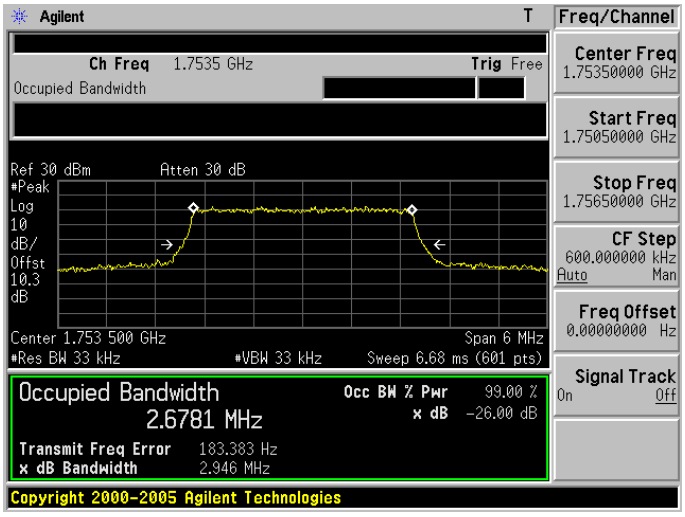
LTE Band 4 (Channel Bandwidth: 5MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

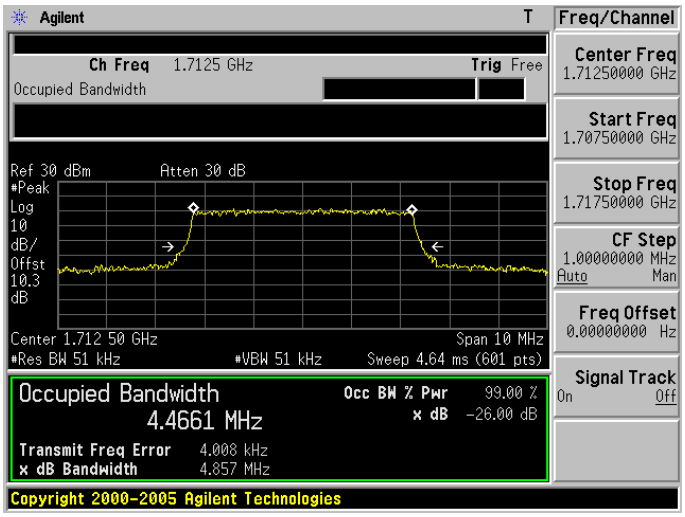
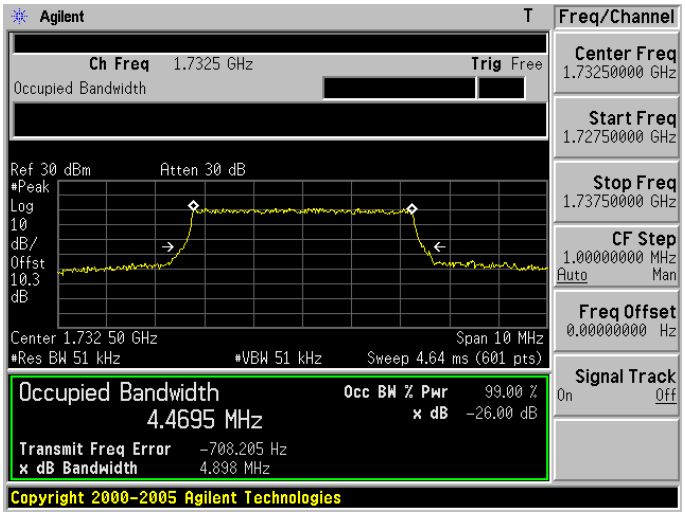
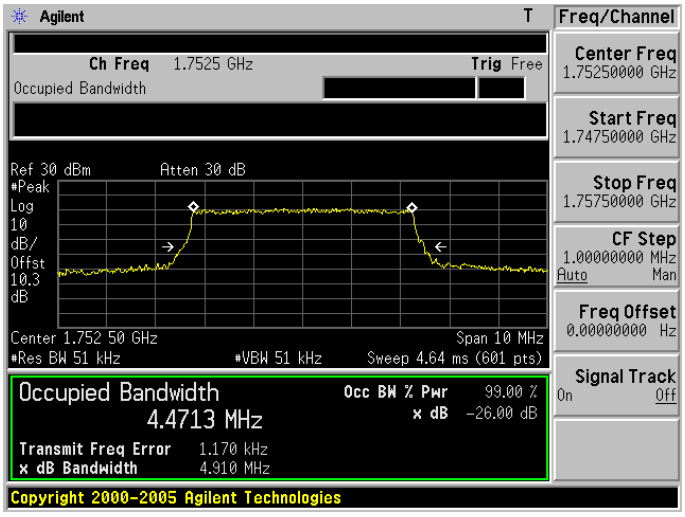
LTE Band 4 (Channel Bandwidth: 10MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

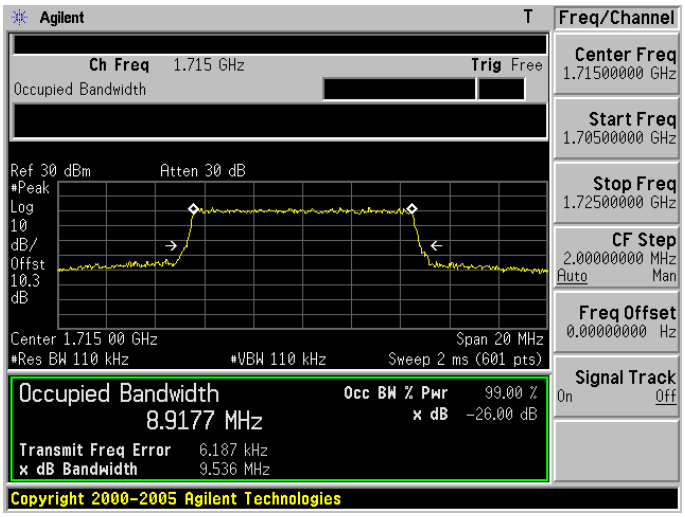
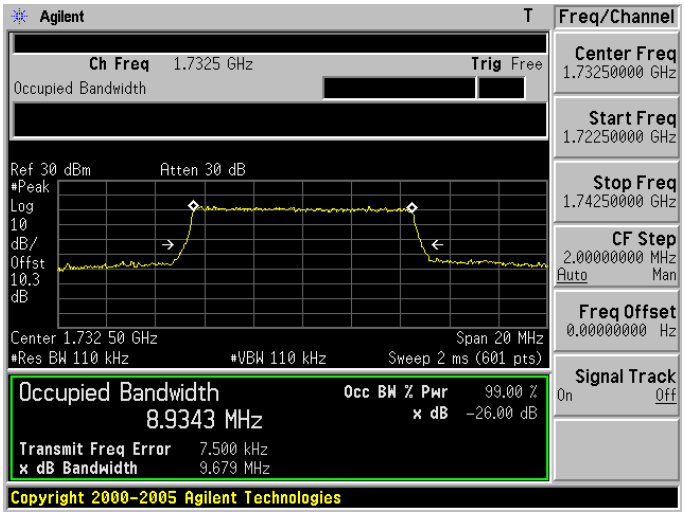
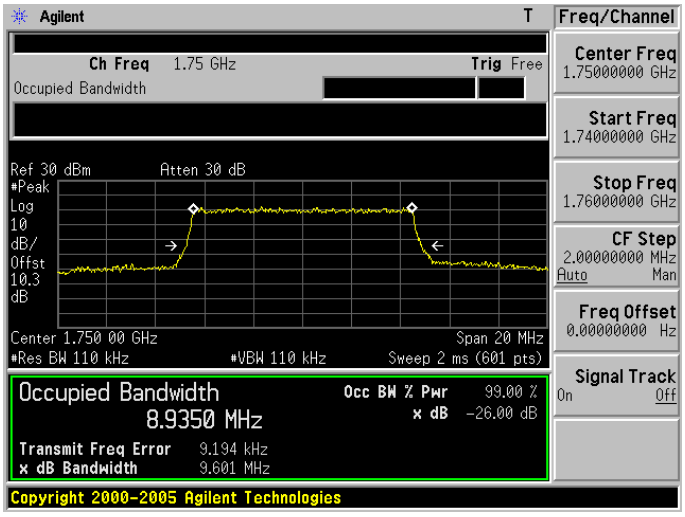
LTE Band 4 (Channel Bandwidth: 15MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

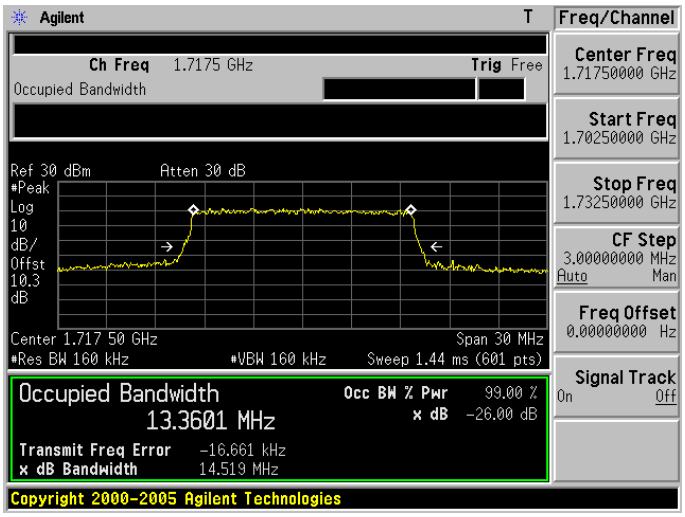
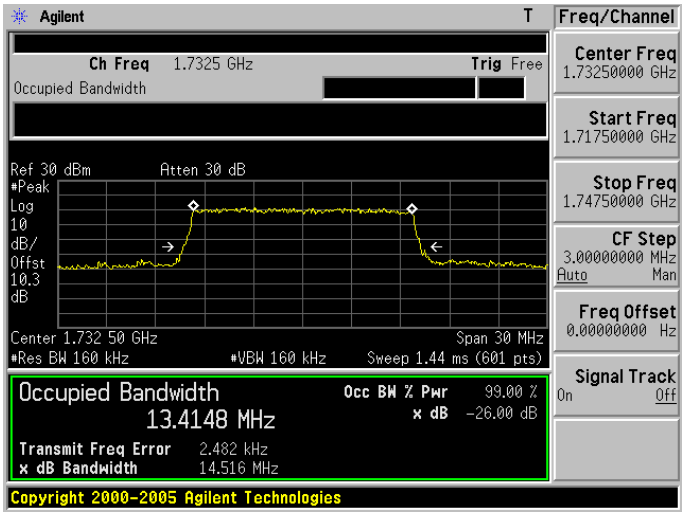
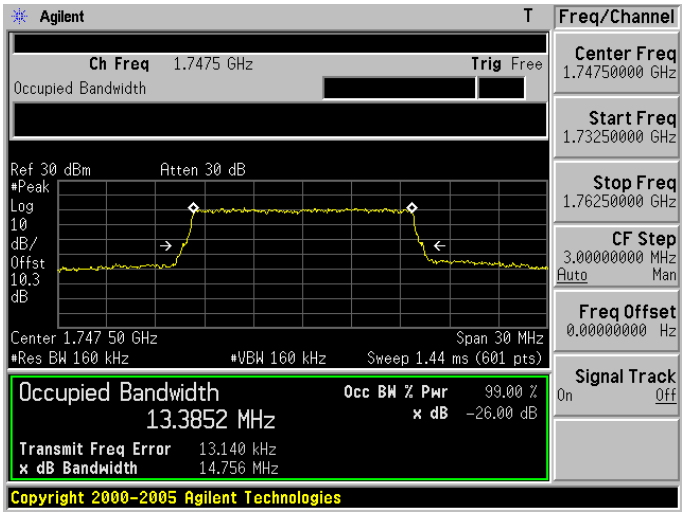
LTE Band 4 (Channel Bandwidth: 20MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

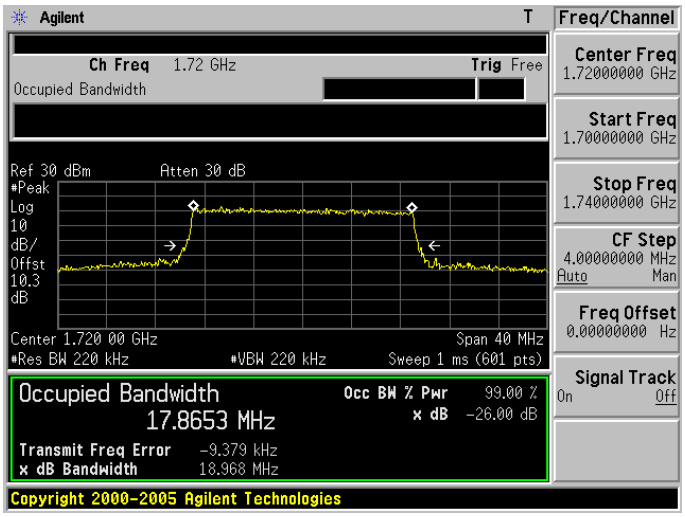
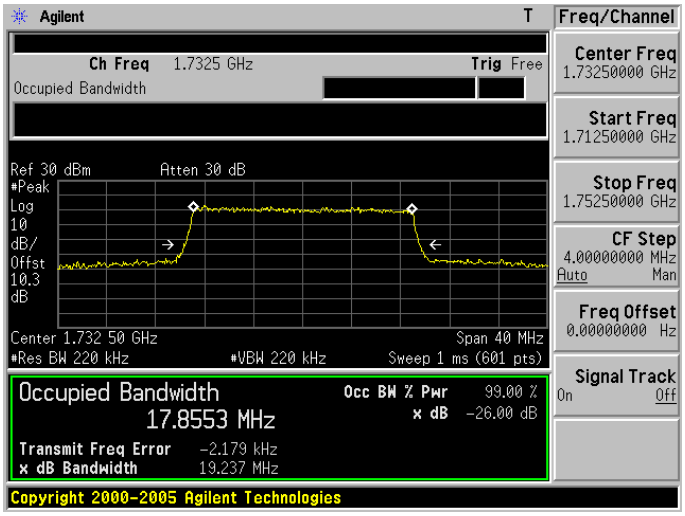
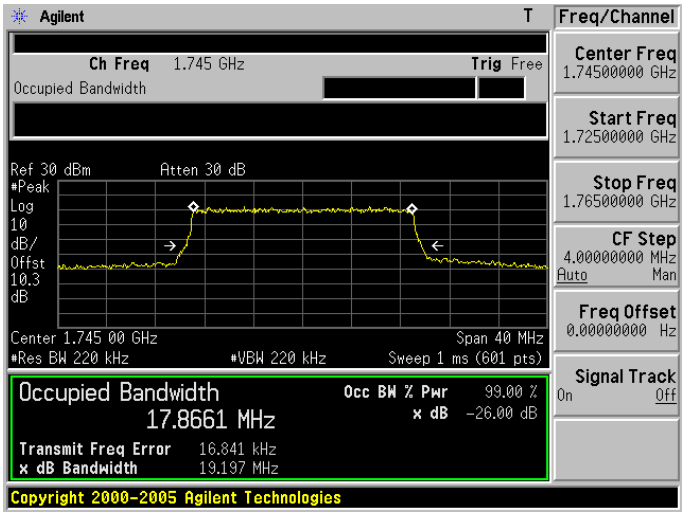
LTE Band 4 (Channel Bandwidth: 1.4MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

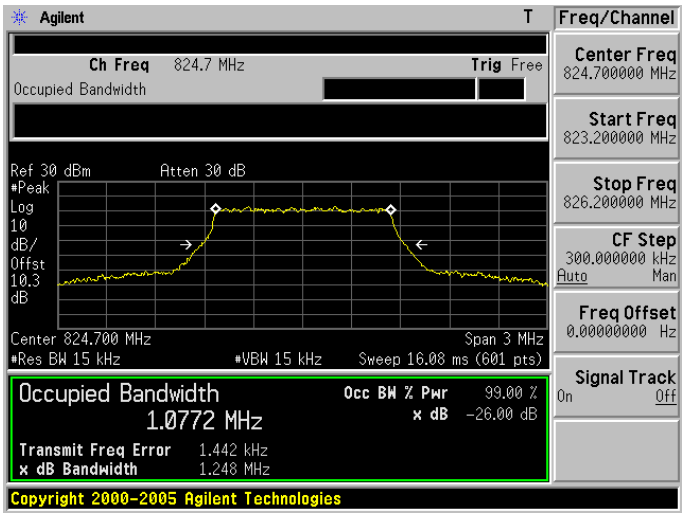
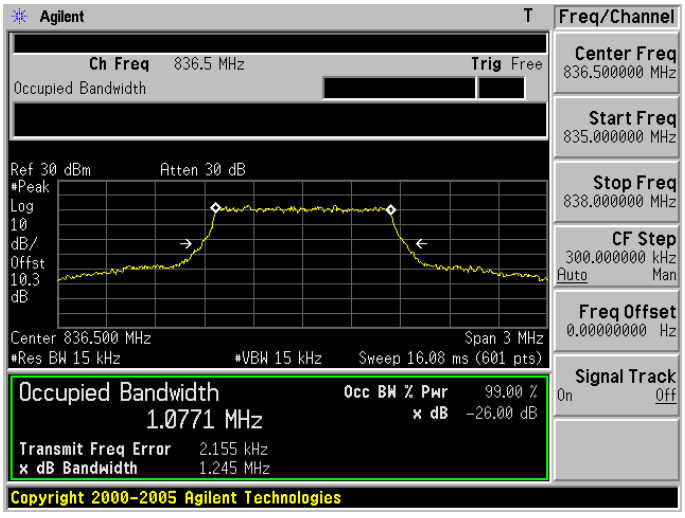
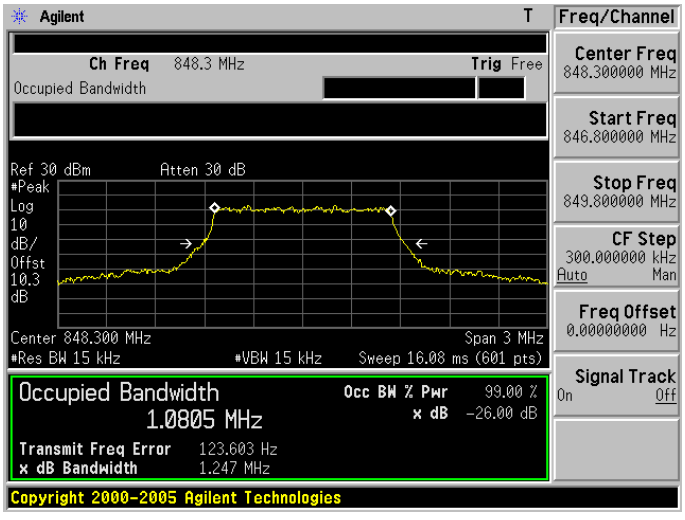
LTE Band 4 (Channel Bandwidth: 3MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

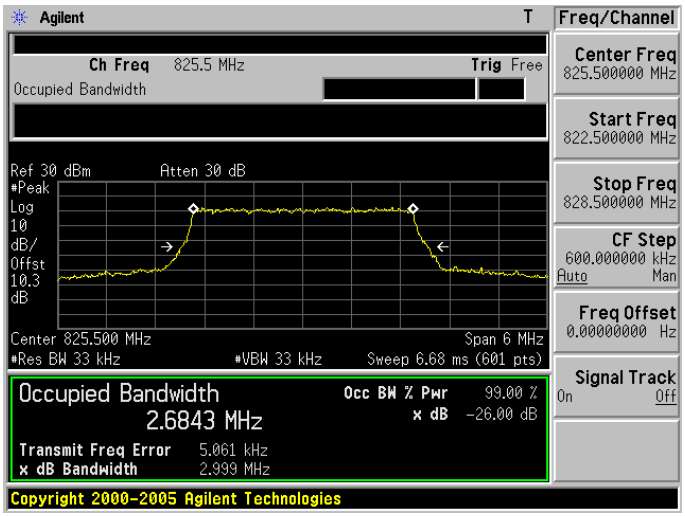
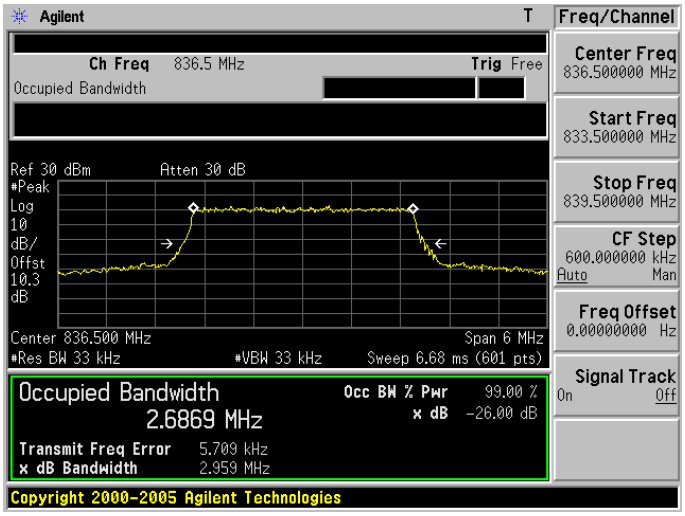
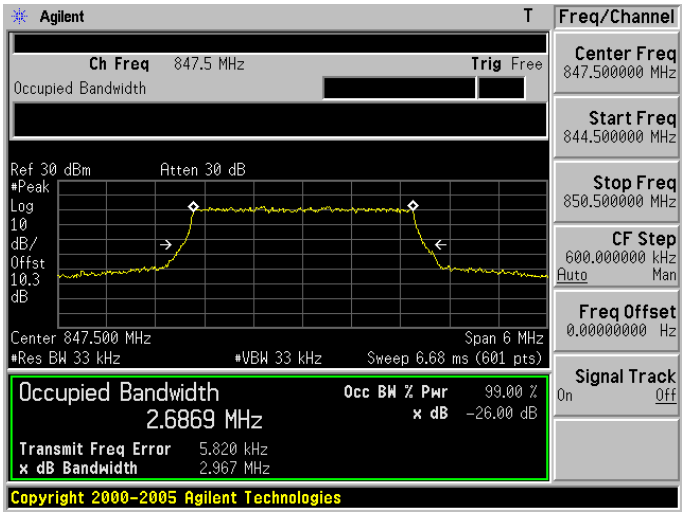
LTE Band 4 (Channel Bandwidth: 5MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

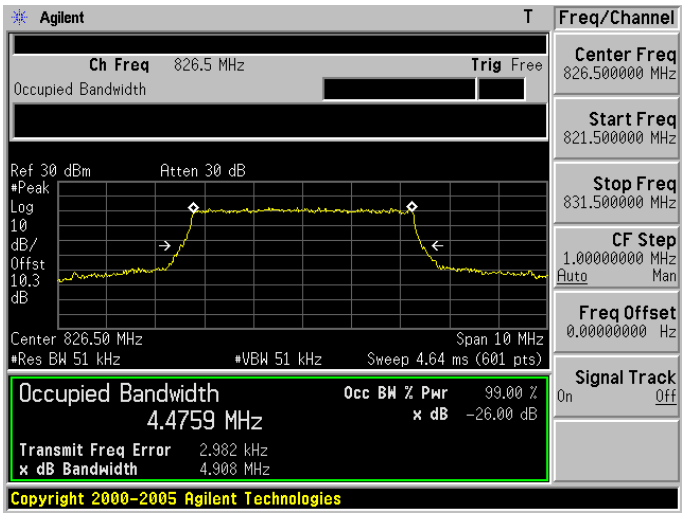
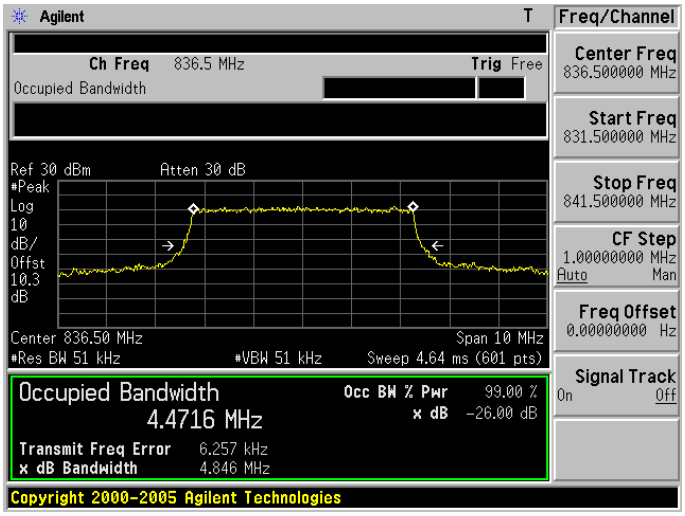
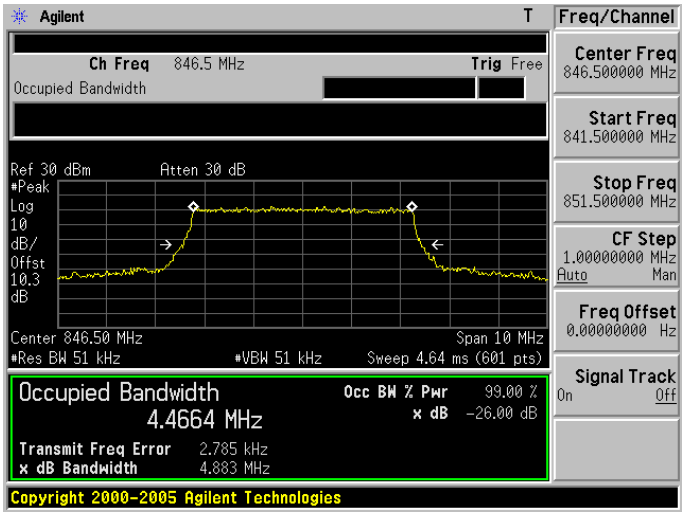
LTE Band 4 (Channel Bandwidth: 10MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

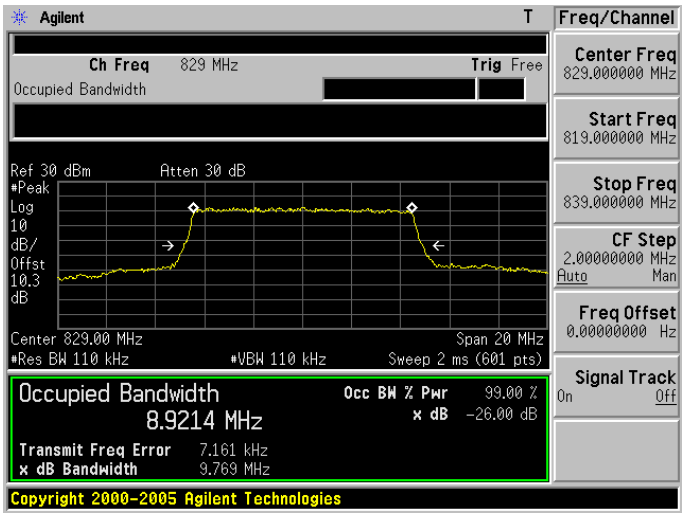
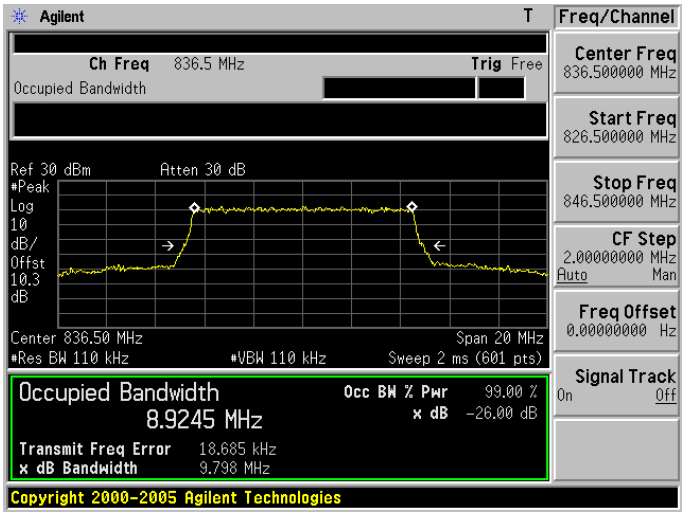
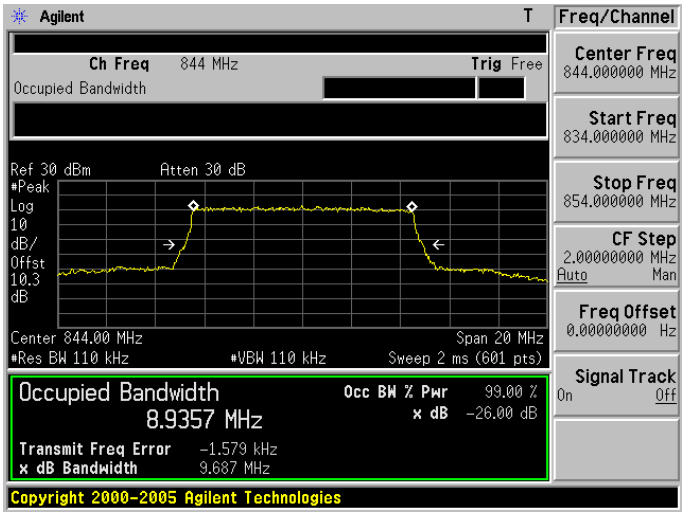
LTE Band 4 (Channel Bandwidth: 15MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

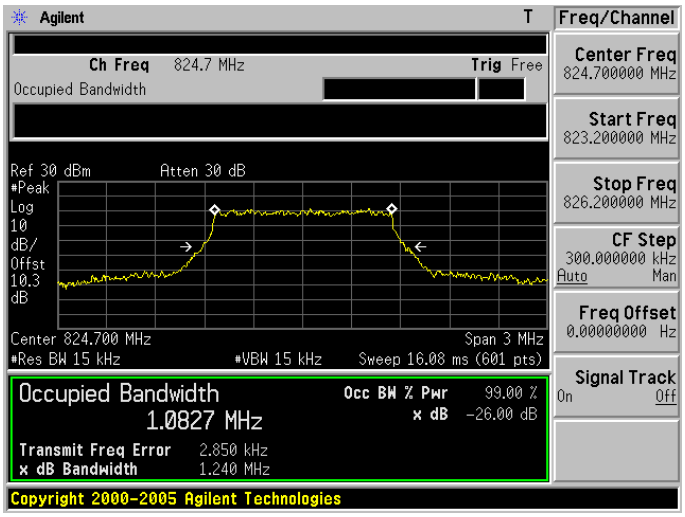
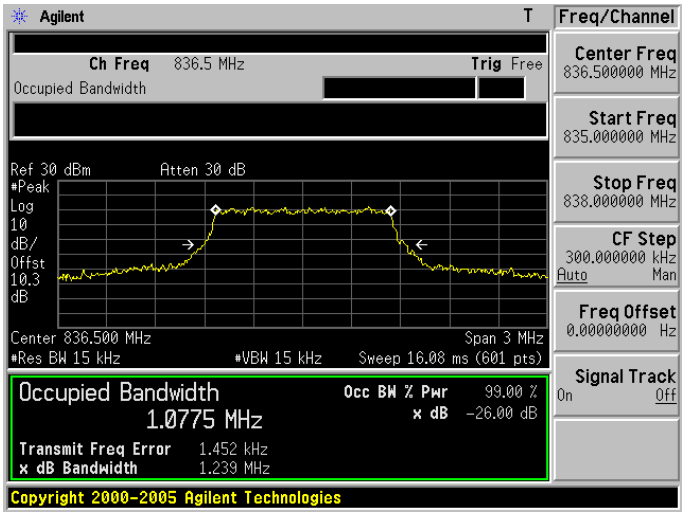
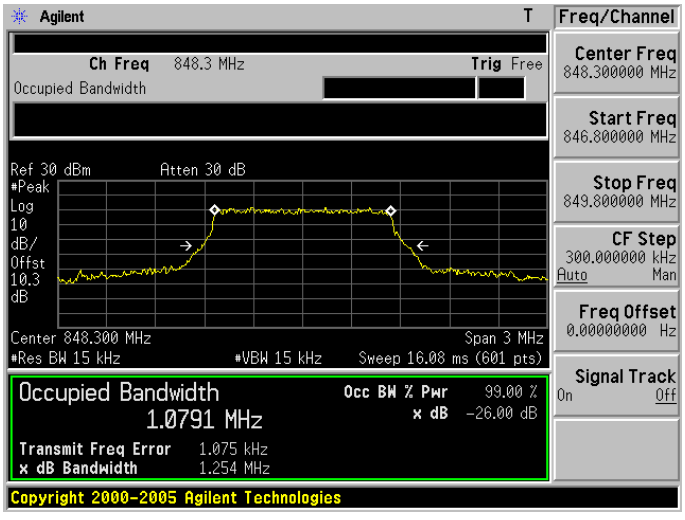
LTE Band 4 (Channel Bandwidth: 20MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

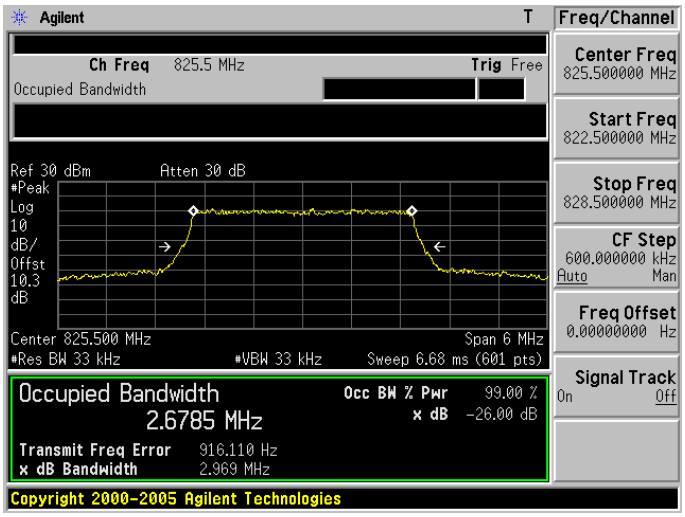
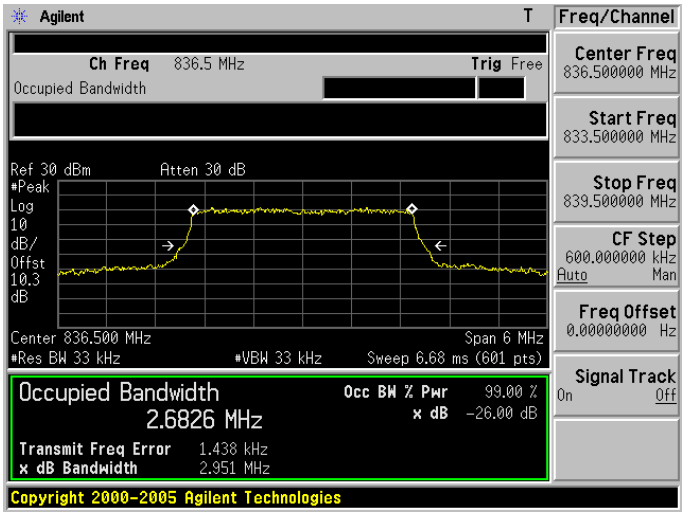
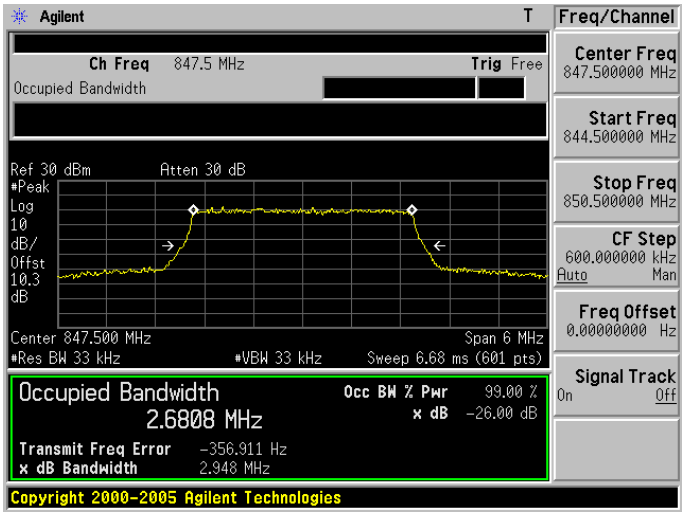
LTE Band 5 (Channel Bandwidth: 1.4MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

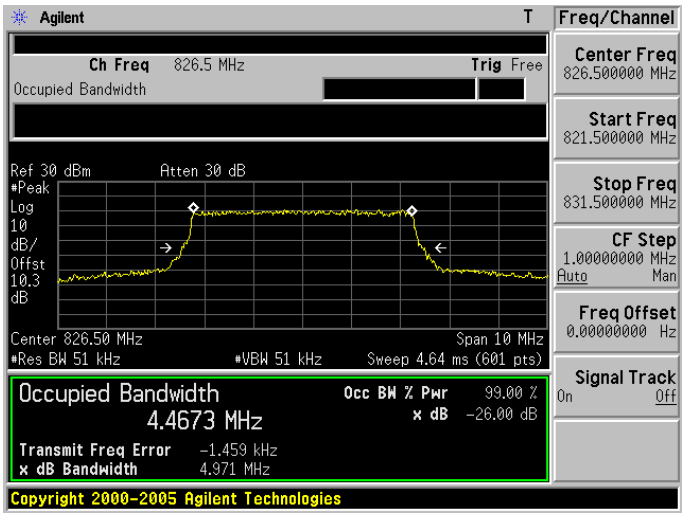
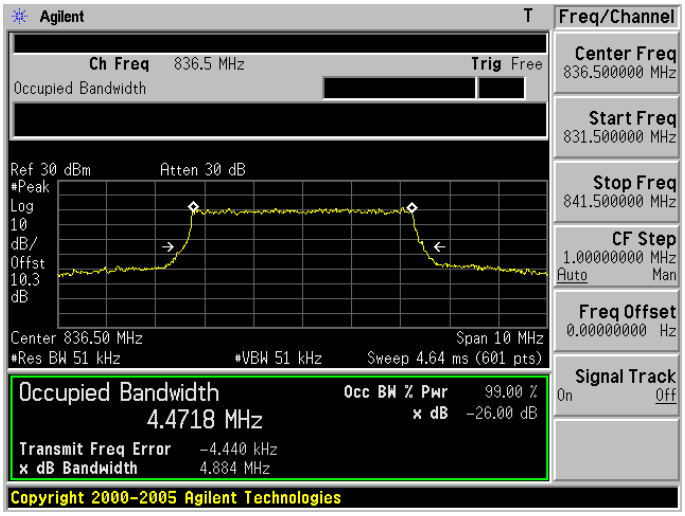
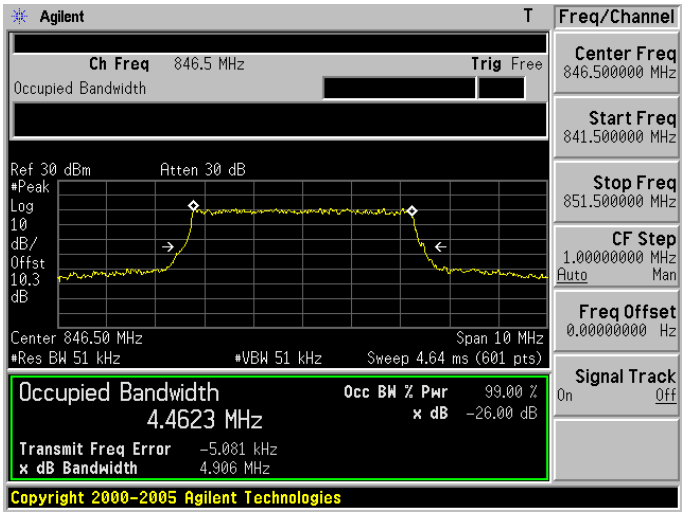
LTE Band 5 (Channel Bandwidth: 3MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

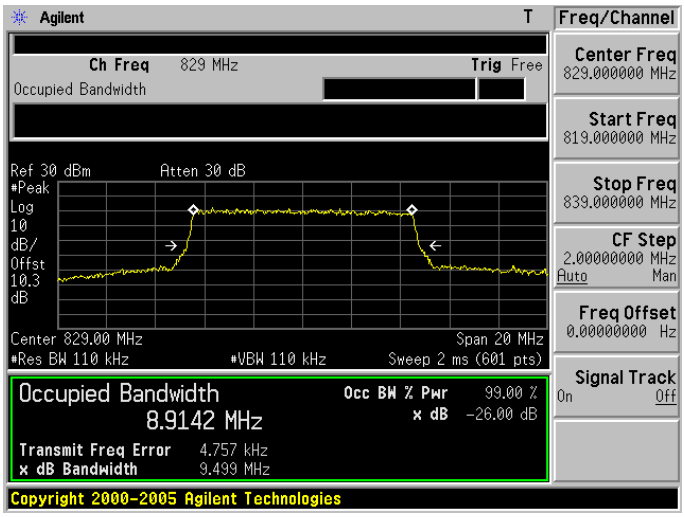
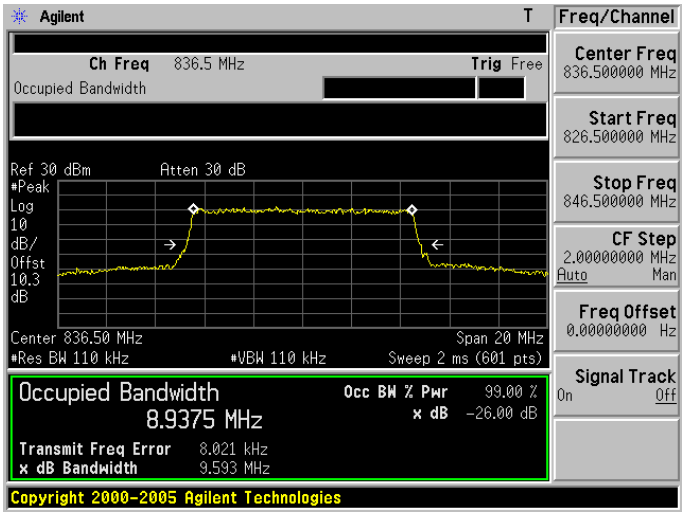
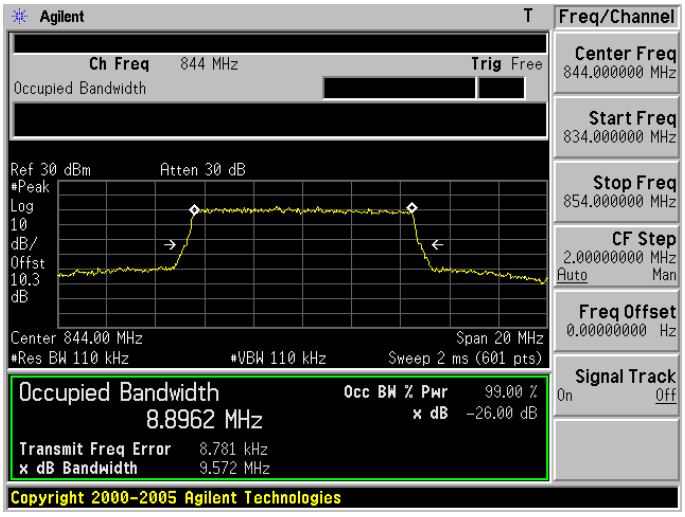
LTE Band 5 (Channel Bandwidth: 5MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

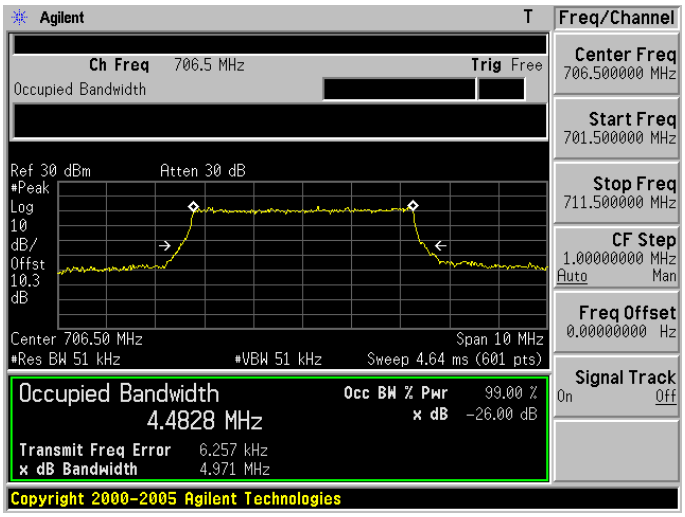
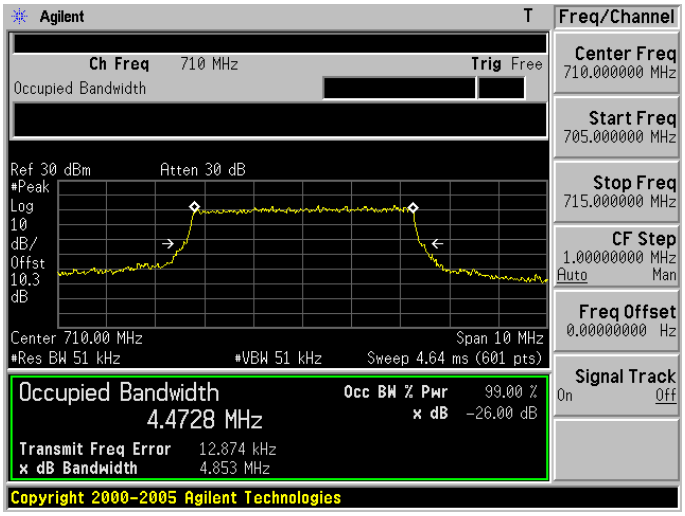
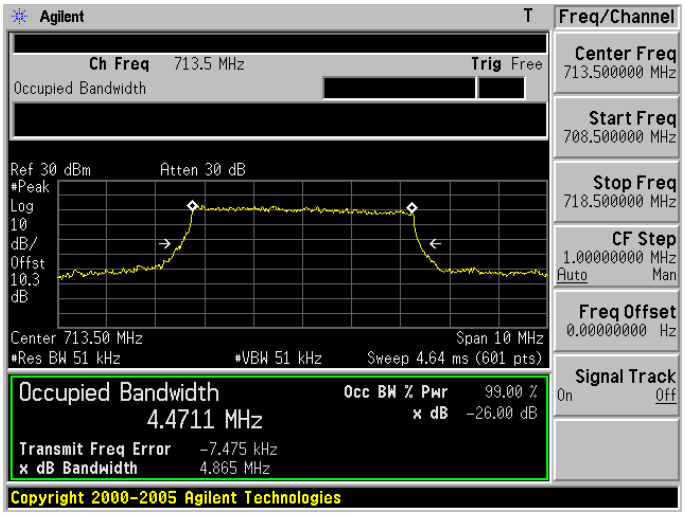
LTE Band 5 (Channel Bandwidth: 10MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

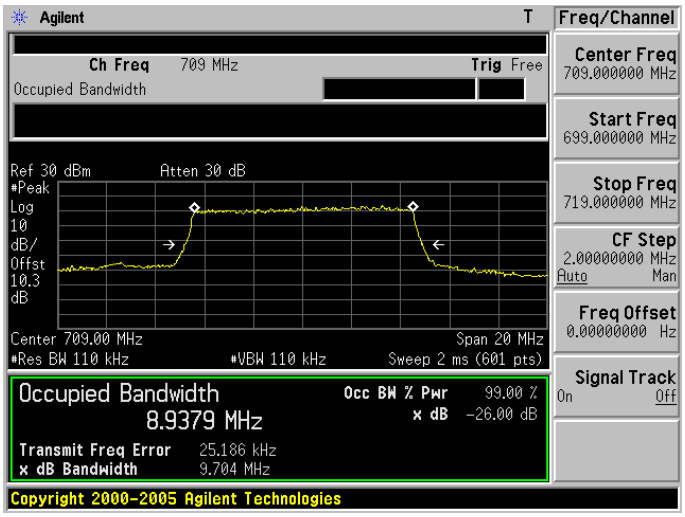
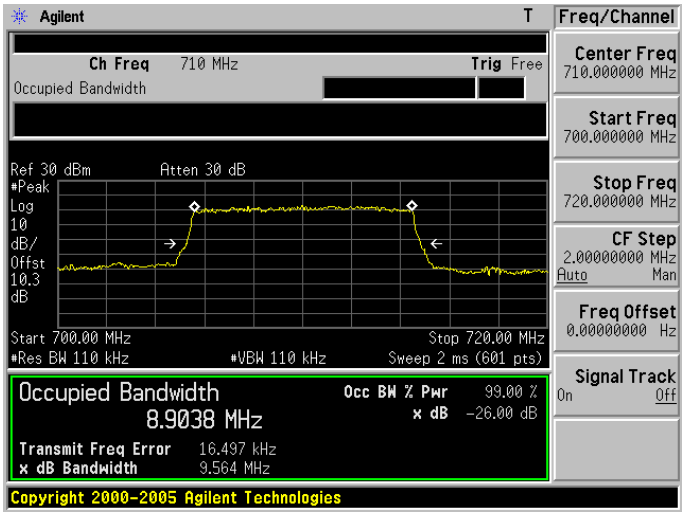
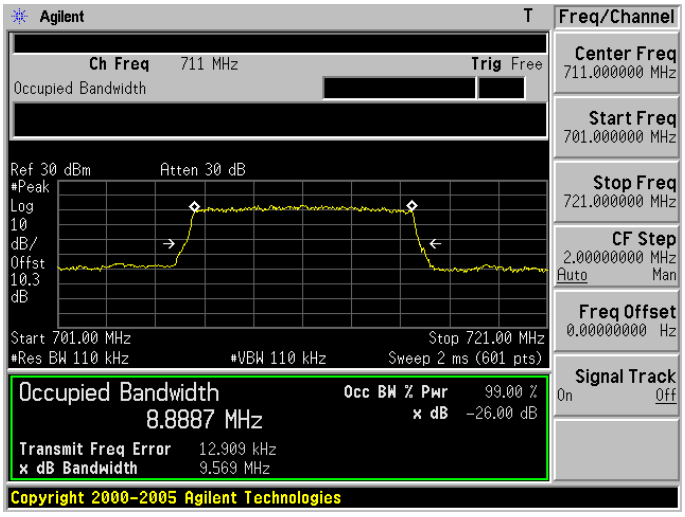
LTE Band 5 (Channel Bandwidth: 1.4MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

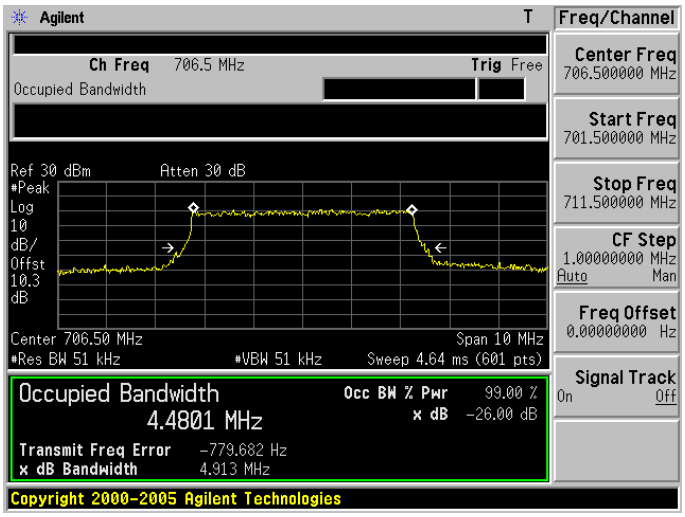
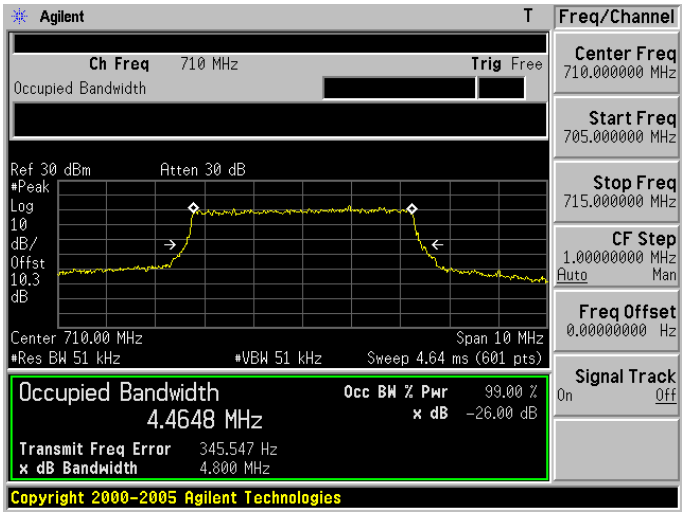
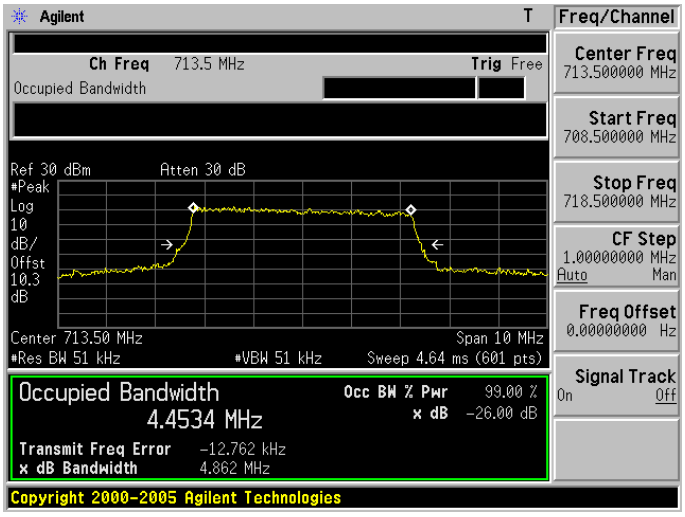
LTE Band 5 (Channel Bandwidth: 3MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

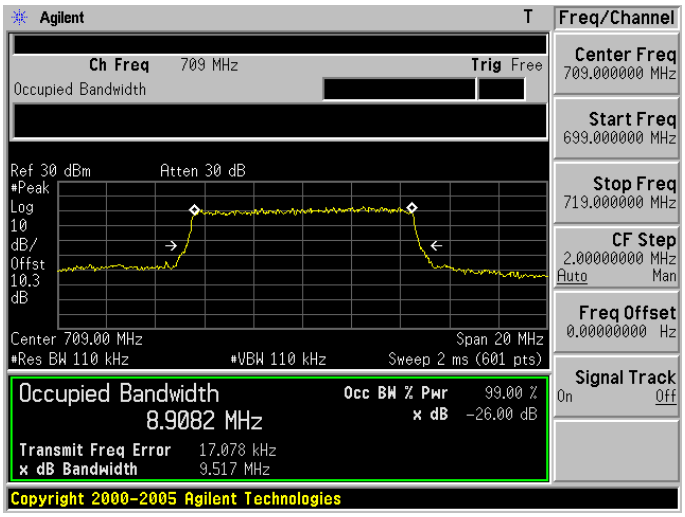
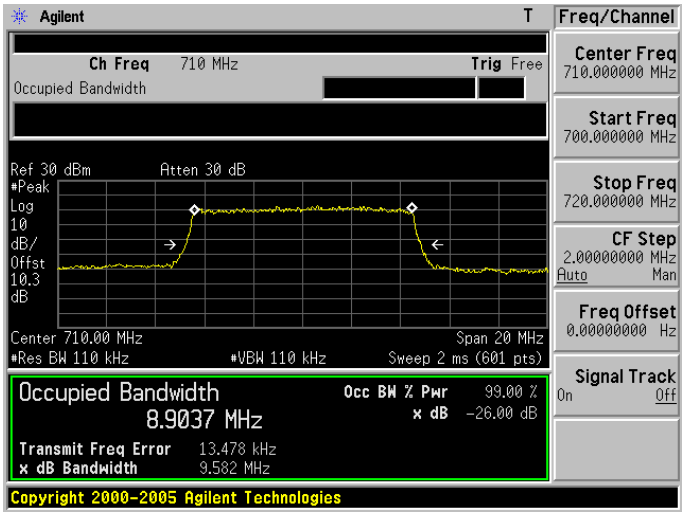
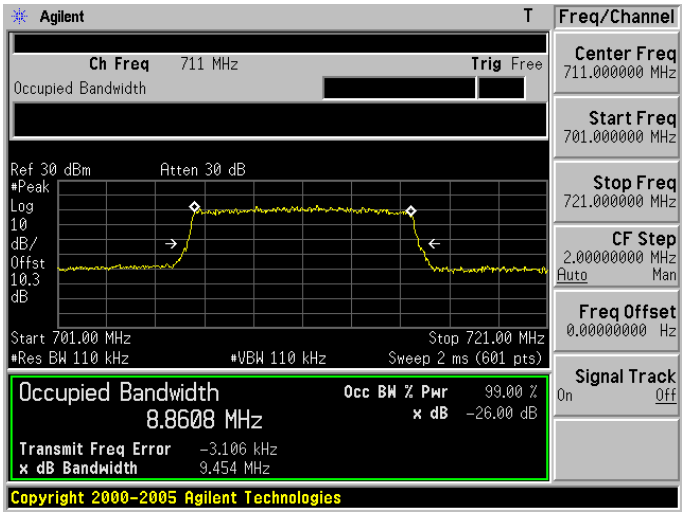
LTE Band 5 (Channel Bandwidth: 5MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

LTE Band 5 (Channel Bandwidth: 10MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

LTE Band 17 (Channel Bandwidth: 5MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

LTE Band 17 (Channel Bandwidth: 10MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

LTE Band 17 (Channel Bandwidth: 5MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

LTE Band 17 (Channel Bandwidth: 10MHz) _ 16QAM	
Low CH	
Middle CH	
High CH	

6 Peak to Average Ratio Test

6.1. Limit

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

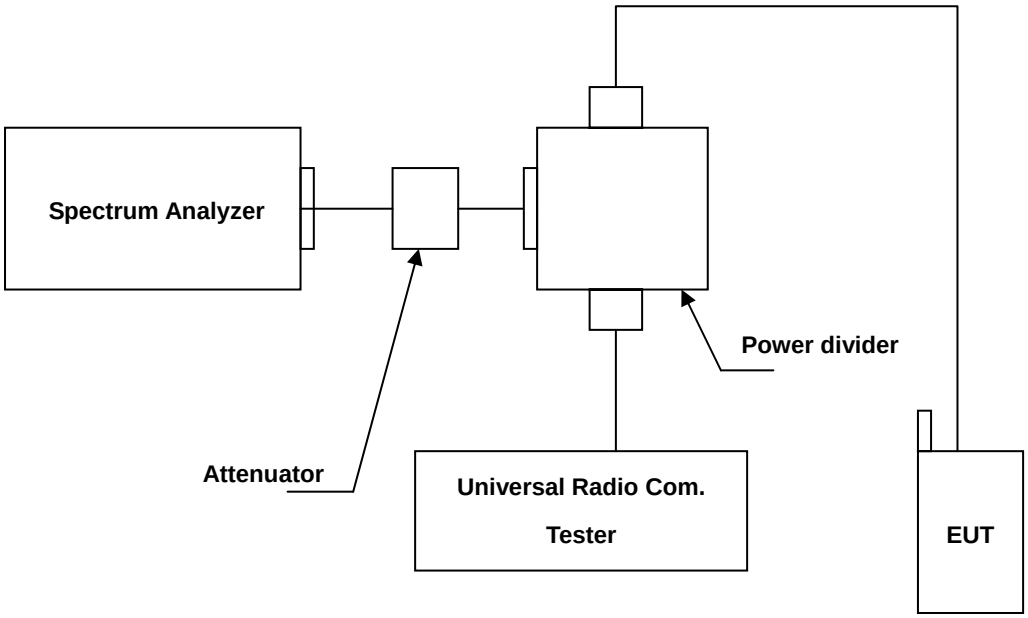
6.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/10/2012	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	12/01/2011	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

6.3. Setup



6.4. Test Procedure

The measurement is made according to FCC rules part 27:

a. Set resolution/measurement bandwidth signal's occupied bandwidth;

b. Set the number of counts to a value that stabilizes the measured CCDF curve;

c. Record the maximum PAPR level associated with a probability of 0.1%.

6.5. Uncertainty

The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

6.6. Test Result

Model Number	AirCard 770S		
Test Item	Peak to Average Ratio		
Date of Test	10/16/2012	Test Site	TE05

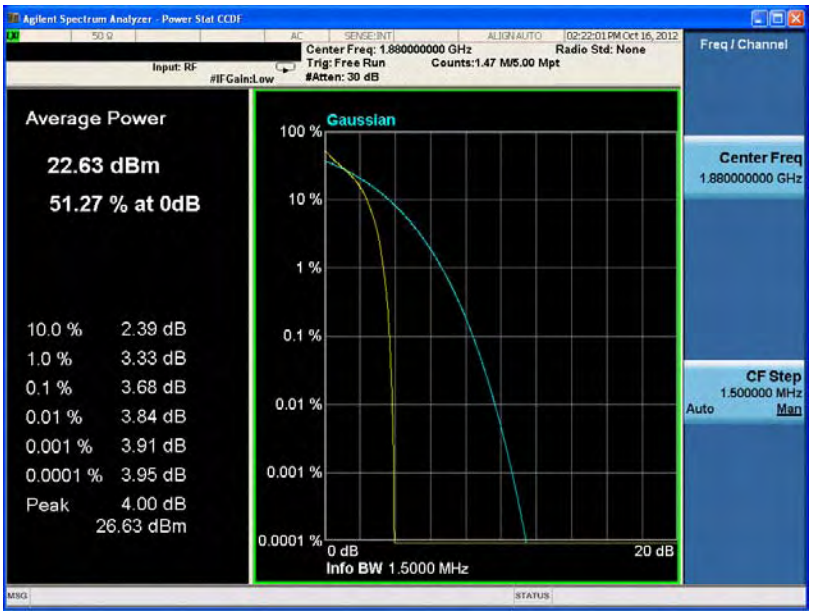
LTE Band 2				
Channel Bandwidth	Modulation	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
1.4MHz	QPSK	1880.0	3.68	< 13
3MHz		1880.0	3.61	< 13
5MHz		1880.0	3.49	< 13
10MHz		1880.0	3.41	< 13
15MHz		1880.0	3.75	< 13
20MHz		1880.0	3.79	< 13
1.4MHz	16QAM	1880.0	4.68	< 13
3MHz		1880.0	4.62	< 13
5MHz		1880.0	4.47	< 13
10MHz		1880.0	4.48	< 13
15MHz		1880.0	4.85	< 13
20MHz		1880.0	4.92	< 13

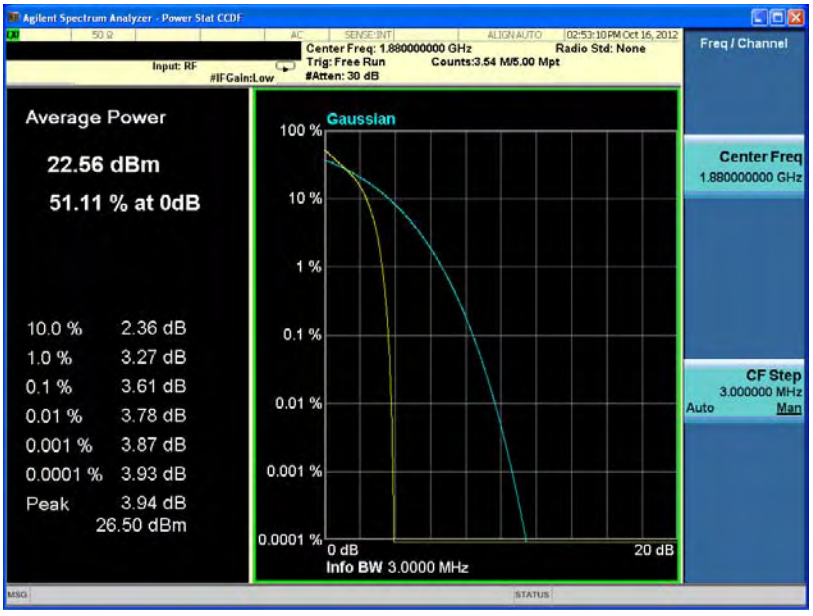
LTE Band 4				
Channel Bandwidth	Modulation	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
1.4MHz	QPSK	1732.5	4.51	< 13
3MHz		1732.5	4.32	< 13
5MHz		1732.5	4.31	< 13
10MHz		1732.5	4.10	< 13
15MHz		1732.5	3.92	< 13
20MHz		1732.5	3.87	< 13
1.4MHz	16QAM	1732.5	5.50	< 13
3MHz		1732.5	5.40	< 13
5MHz		1732.5	5.34	< 13
10MHz		1732.5	5.13	< 13
15MHz		1732.5	5.05	< 13
20MHz		1732.5	4.97	< 13

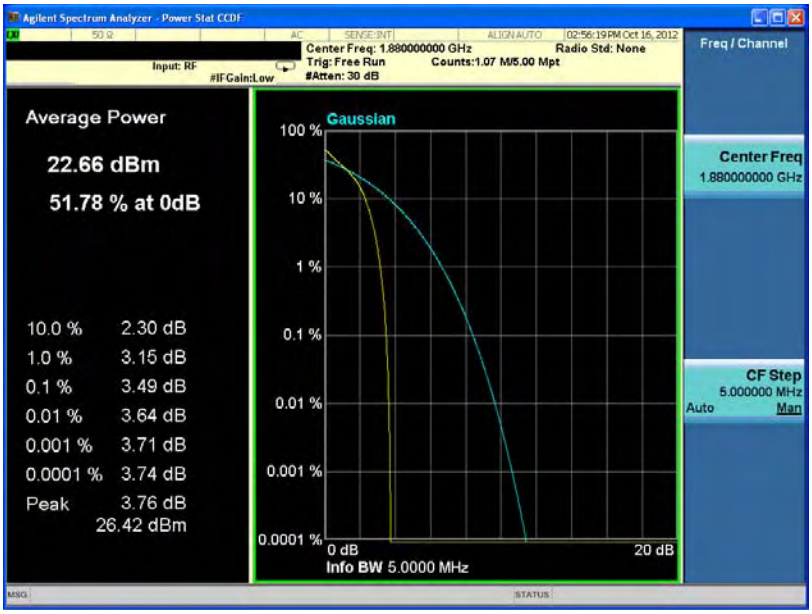
LTE Band 5				
Channel Bandwidth	Modulation	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
1.4MHz	QPSK	836.5	5.42	< 13
3MHz		836.5	5.47	< 13
5MHz		836.5	5.52	< 13
10MHz		836.5	5.79	< 13
1.4MHz	16QAM	836.5	6.59	< 13
3MHz		836.5	6.61	< 13
5MHz		836.5	6.65	< 13
10MHz		836.5	6.96	< 13

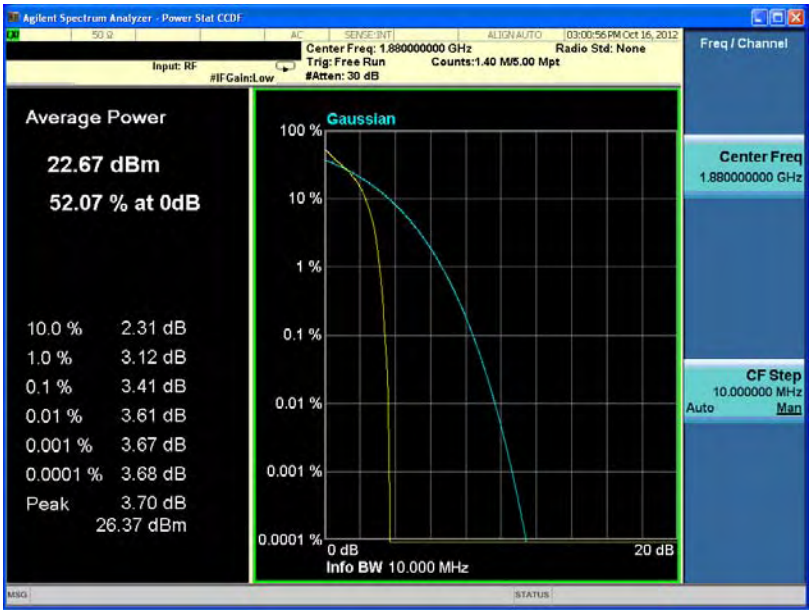
LTE Band 17				
Channel Bandwidth	Modulation	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
5MHz	QPSK	710.0	5.32	< 13
10MHz		710.0	5.64	< 13
5MHz	16QAM	710.0	6.53	< 13
10MHz		710.0	7.05	< 13

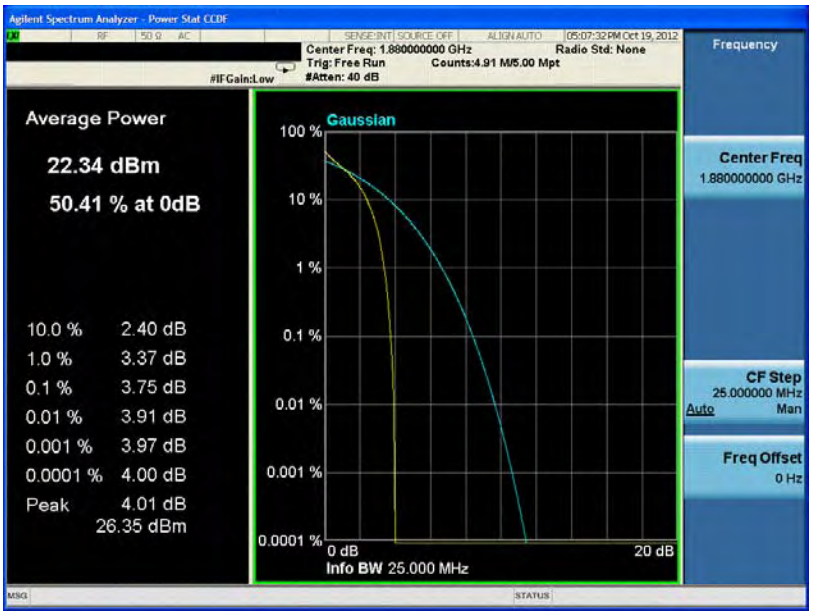
6.7. Test Graphs

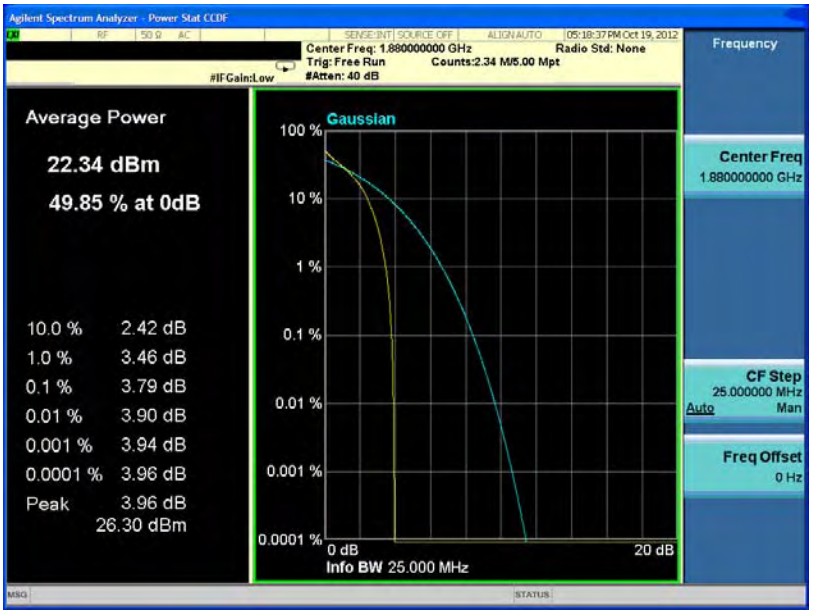
LTE Band 2 (Channel Bandwidth: 1.4MHz) _ QPSK	
Middle CH	

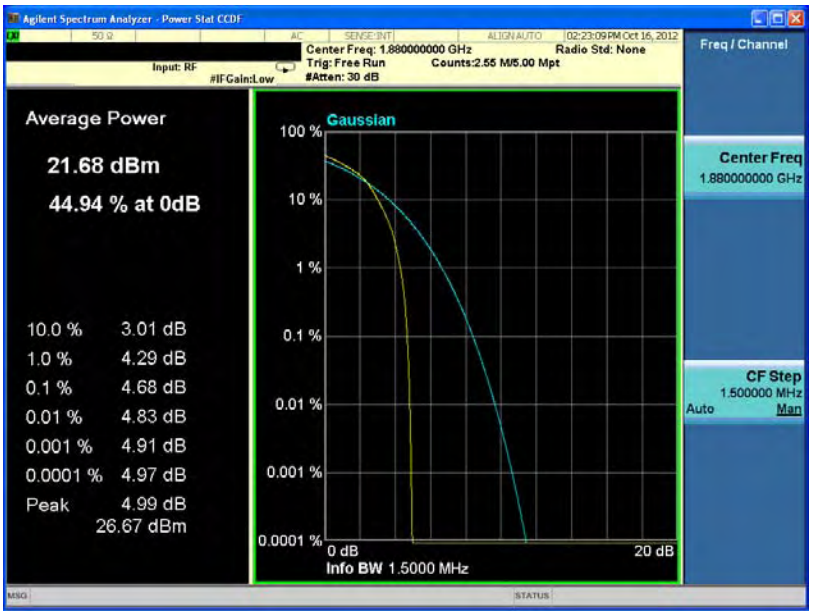
LTE Band 2 (Channel Bandwidth: 3MHz) _ QPSK	
Middle CH	

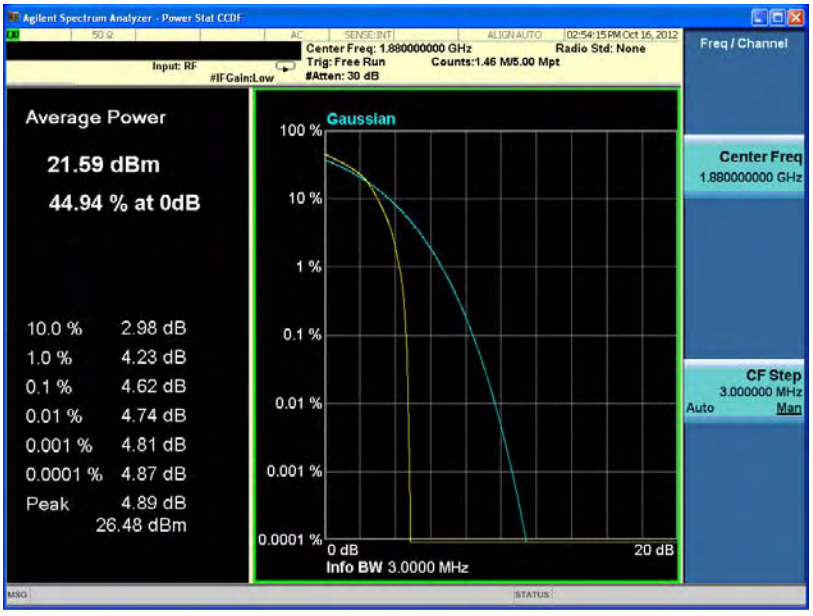
LTE Band 2 (Channel Bandwidth: 5MHz) _ QPSK	
Middle CH	

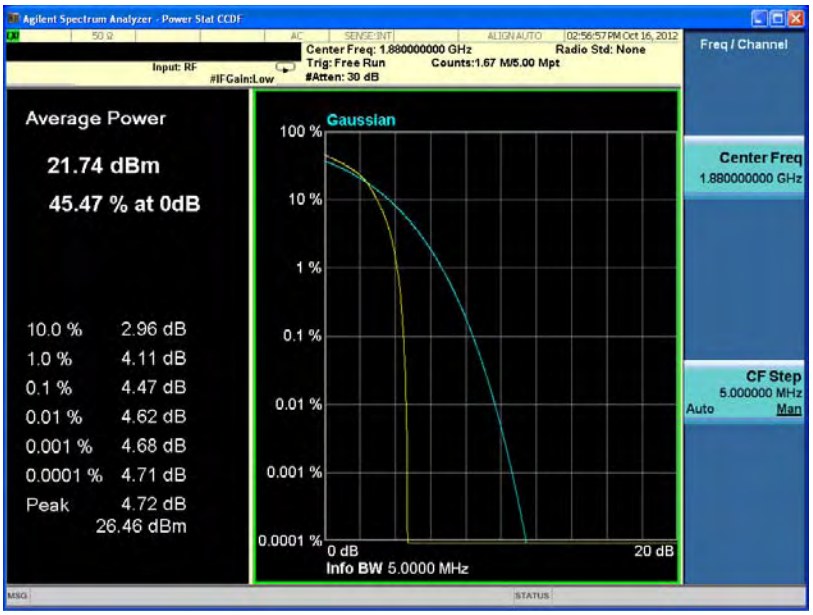
LTE Band 2 (Channel Bandwidth: 10MHz) _ QPSK	
Middle CH	

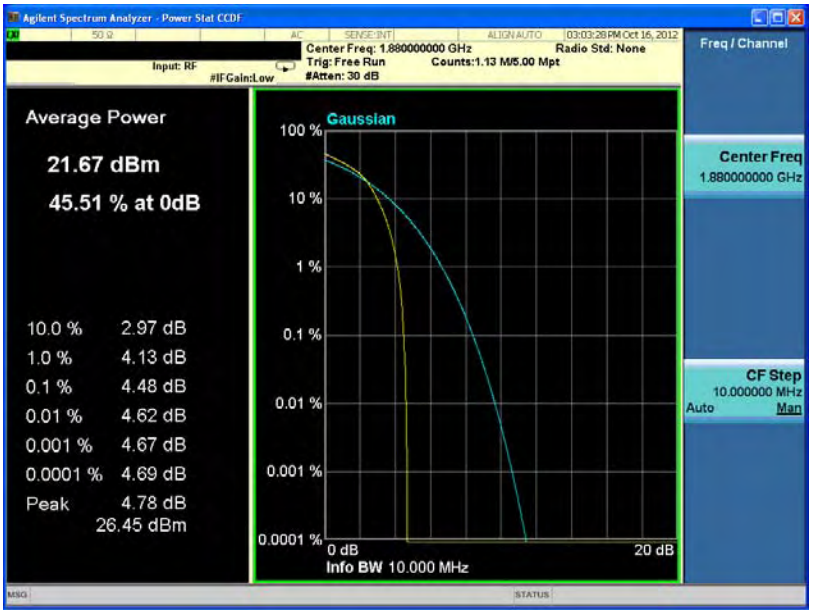
LTE Band 2 (Channel Bandwidth: 15MHz) _ QPSK	
Middle CH	

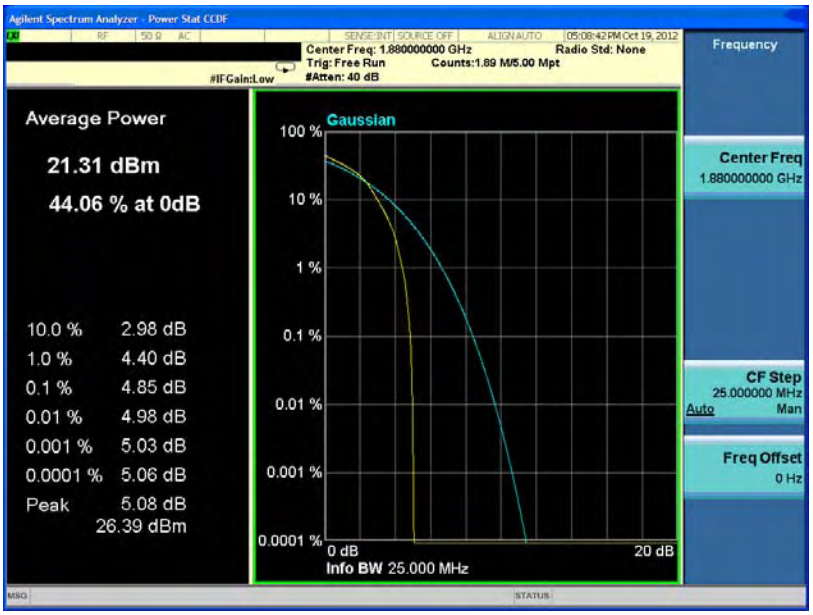
LTE Band 2 (Channel Bandwidth: 20MHz) _ QPSK	
Middle CH	

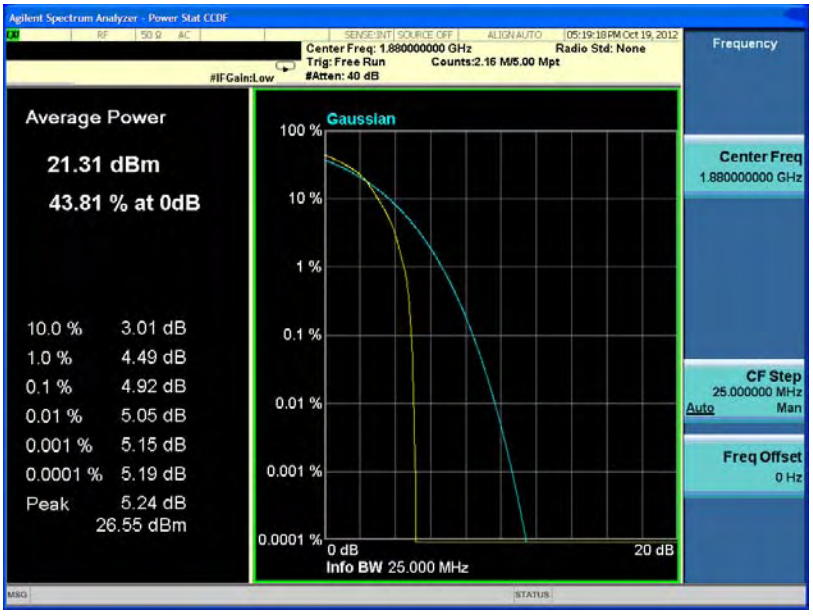
LTE Band 2 (Channel Bandwidth: 1.4MHz) _ 16QAM	
Middle CH	

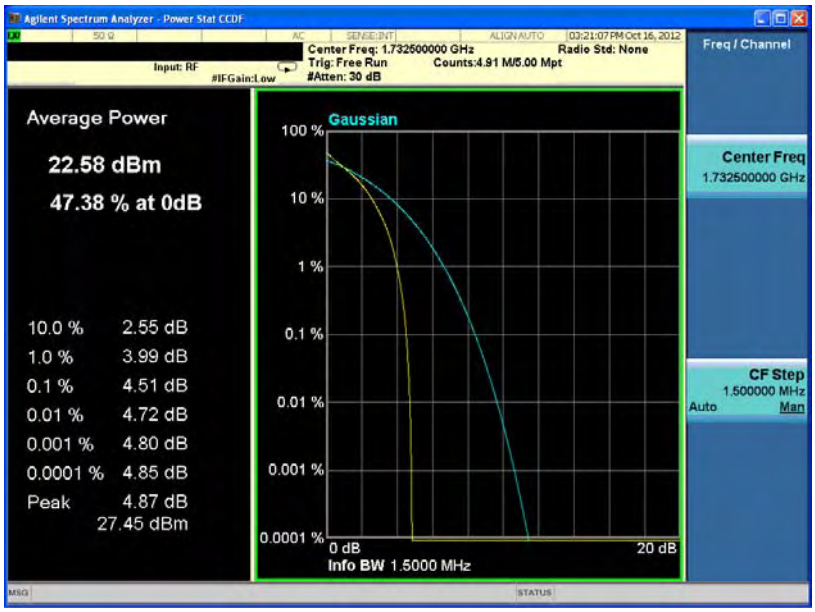
LTE Band 2 (Channel Bandwidth: 3MHz) _ 16QAM	
Middle CH	

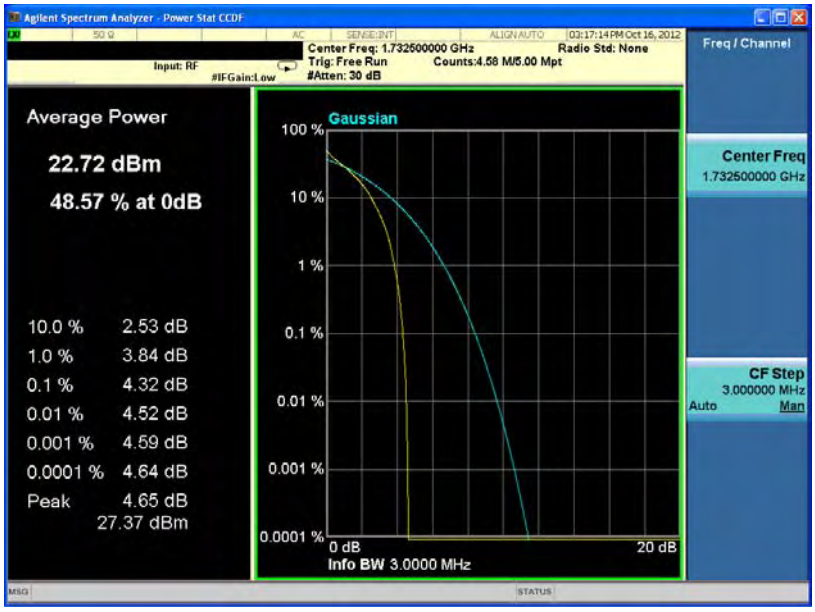
LTE Band 2 (Channel Bandwidth: 5MHz) _ 16QAM	
Middle CH	

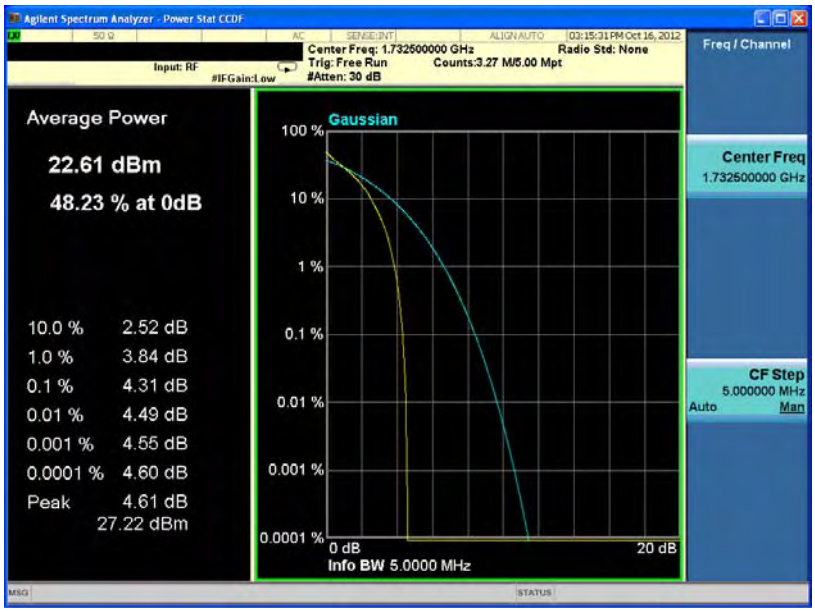
LTE Band 2 (Channel Bandwidth: 10MHz) _ 16QAM	
Middle CH	

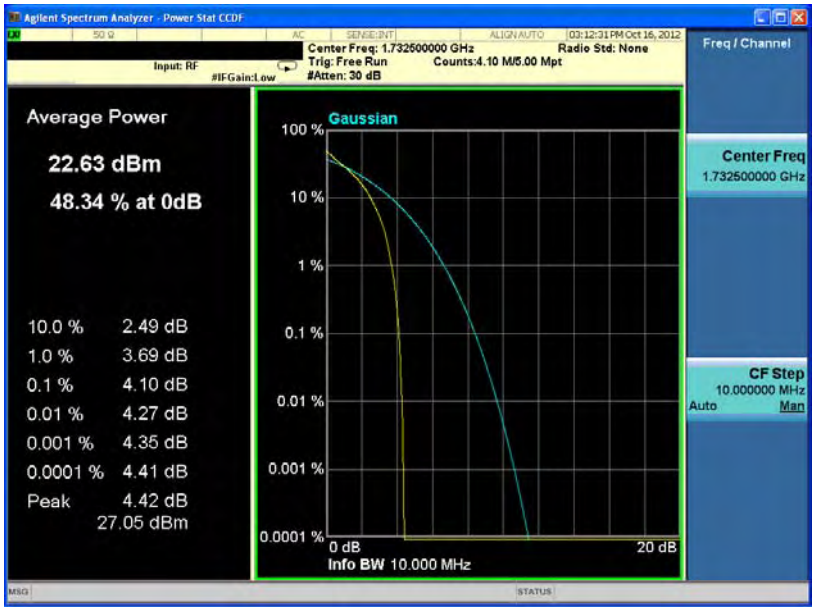
LTE Band 2 (Channel Bandwidth: 15MHz) _ 16QAM	
Middle CH	

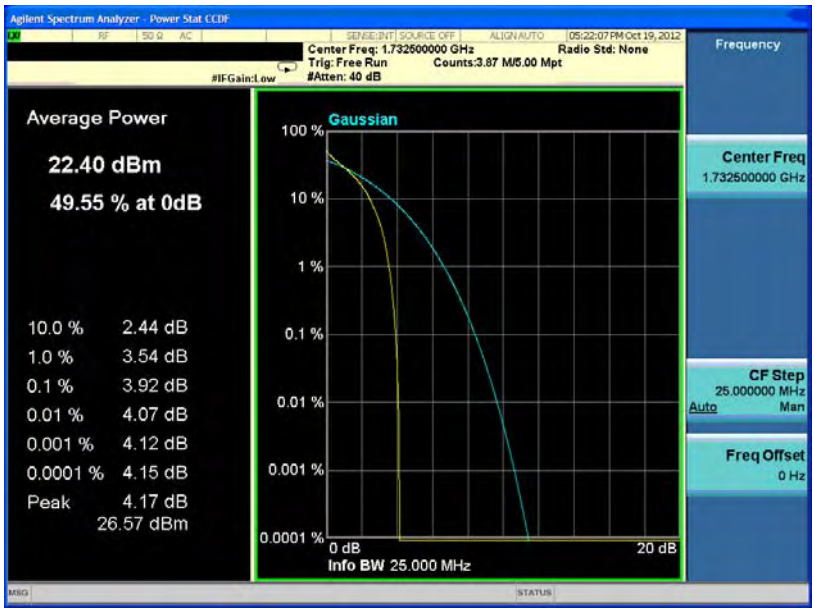
LTE Band 2 (Channel Bandwidth: 20MHz) _ 16QAM	
Middle CH	

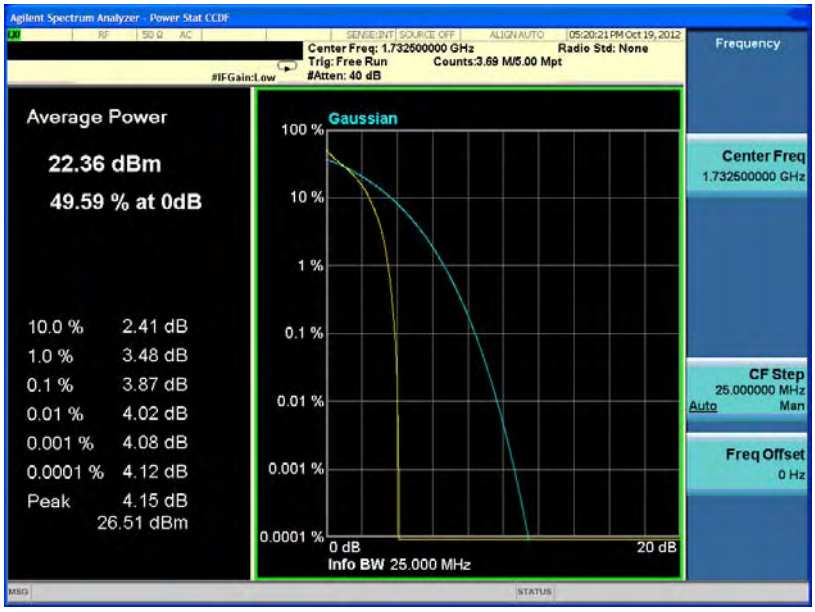
LTE Band 4 (Channel Bandwidth: 1.4MHz) _ QPSK	
Middle CH	

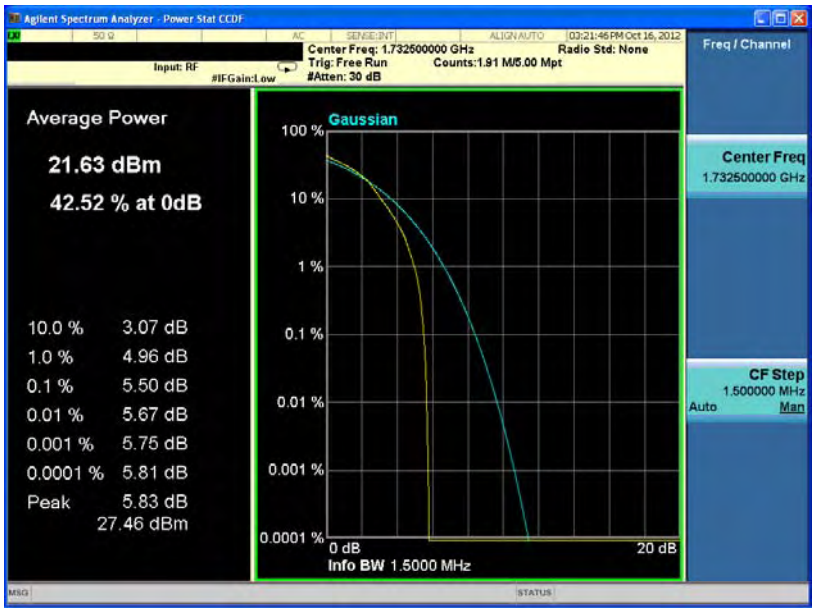
LTE Band 4 (Channel Bandwidth: 3MHz) _ QPSK	
Middle CH	

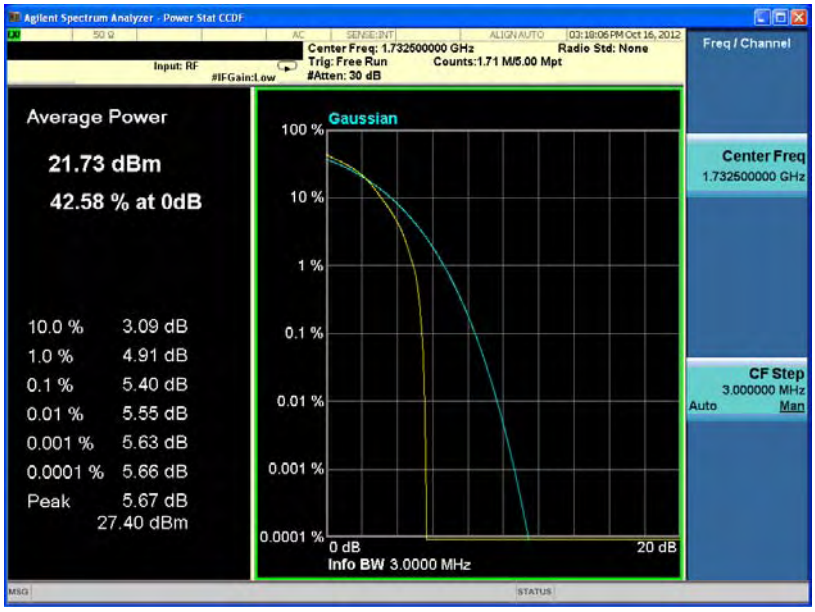
LTE Band 4 (Channel Bandwidth: 5MHz) _ QPSK	
Middle CH	

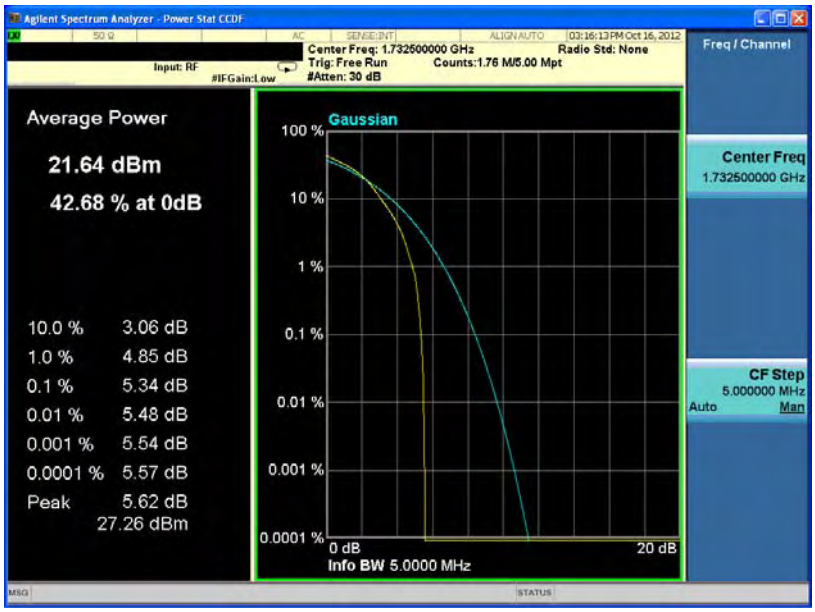
LTE Band 4 (Channel Bandwidth: 10MHz) _ QPSK	
Middle CH	

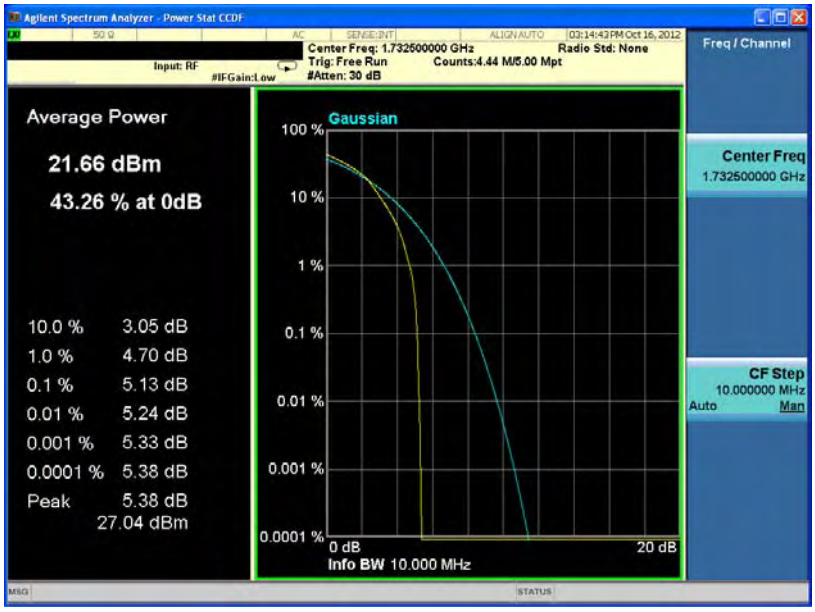
LTE Band 4 (Channel Bandwidth: 15MHz) _ QPSK	
Middle CH	

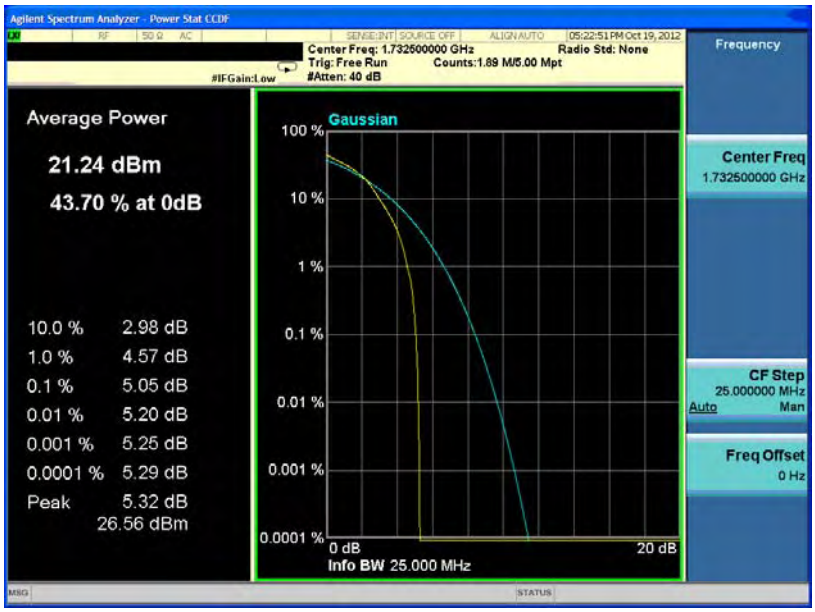
LTE Band 4 (Channel Bandwidth: 20MHz) _ QPSK	
Middle CH	

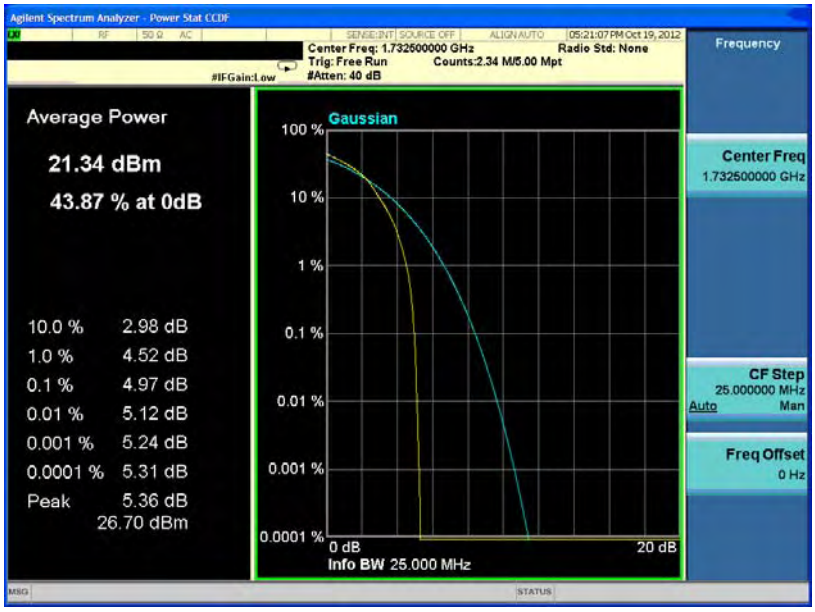
LTE Band 4 (Channel Bandwidth: 1.4MHz) _ 16QAM	
Middle CH	

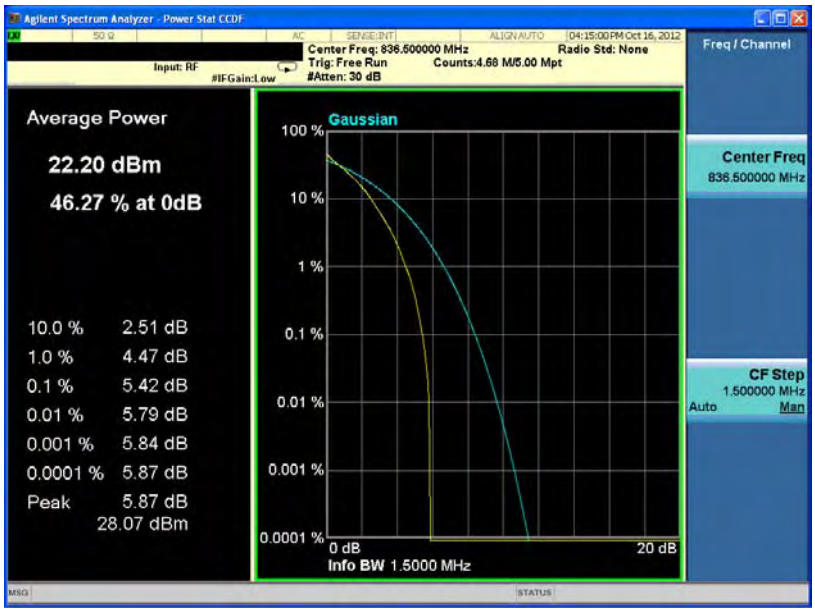
LTE Band 4 (Channel Bandwidth: 3MHz) _ 16QAM	
Middle CH	

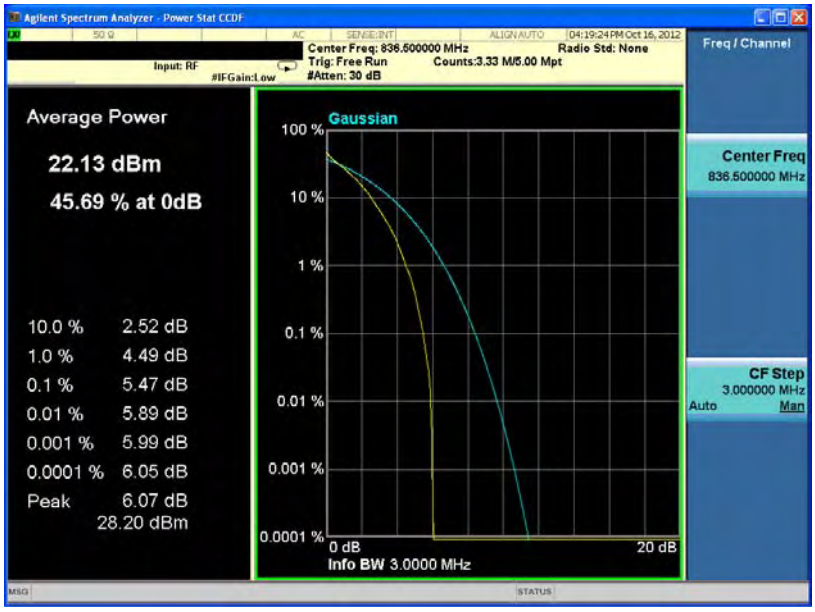
LTE Band 4 (Channel Bandwidth: 5MHz) _ 16QAM	
Middle CH	

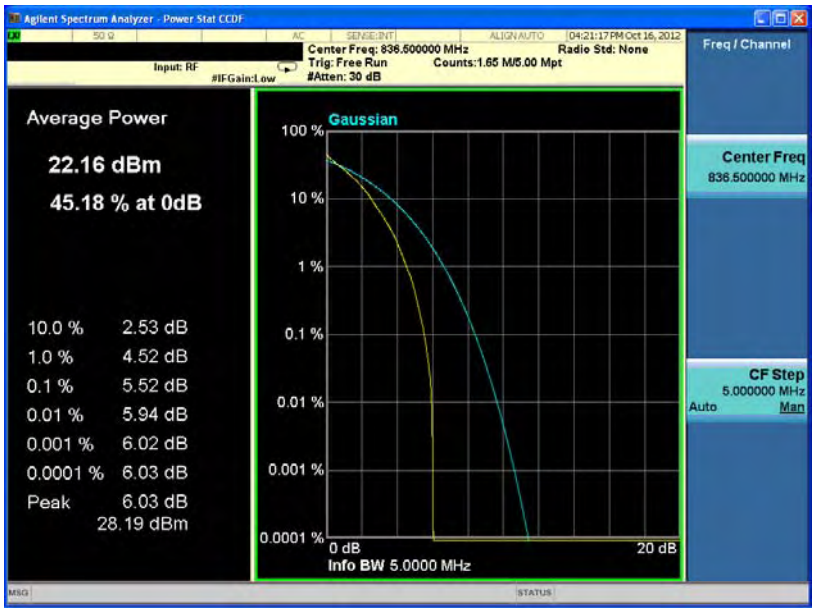
LTE Band 4 (Channel Bandwidth: 10MHz) _ 16QAM	
Middle CH	

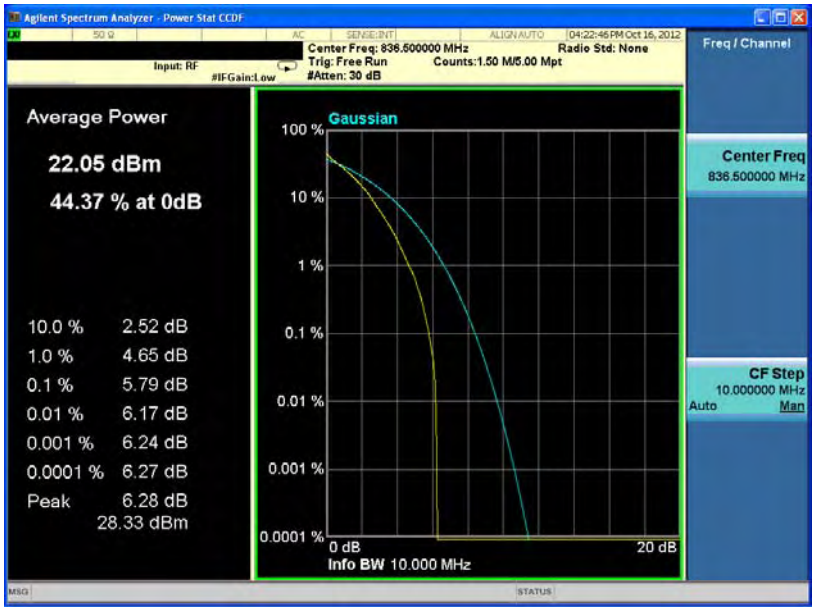
LTE Band 4 (Channel Bandwidth: 15MHz) _ 16QAM	
Middle CH	

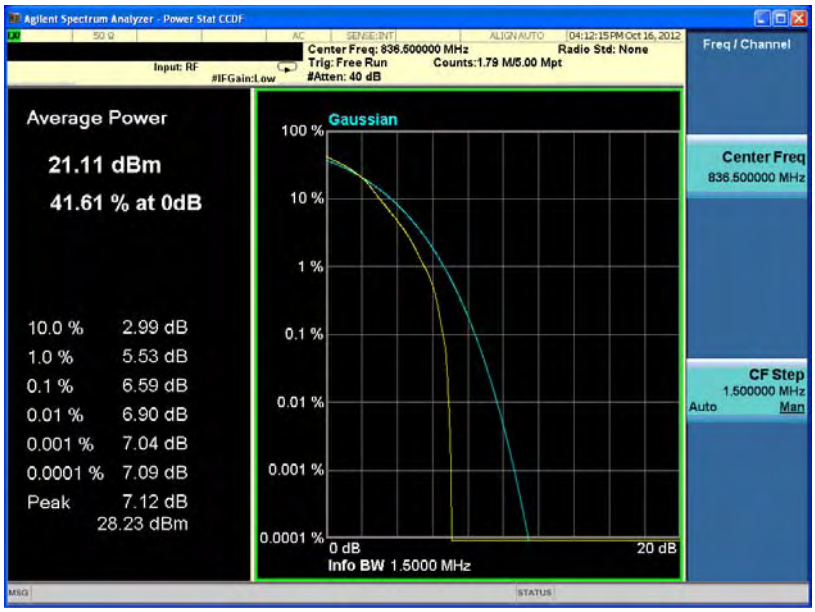
LTE Band 4 (Channel Bandwidth: 20MHz) _ 16QAM	
Middle CH	

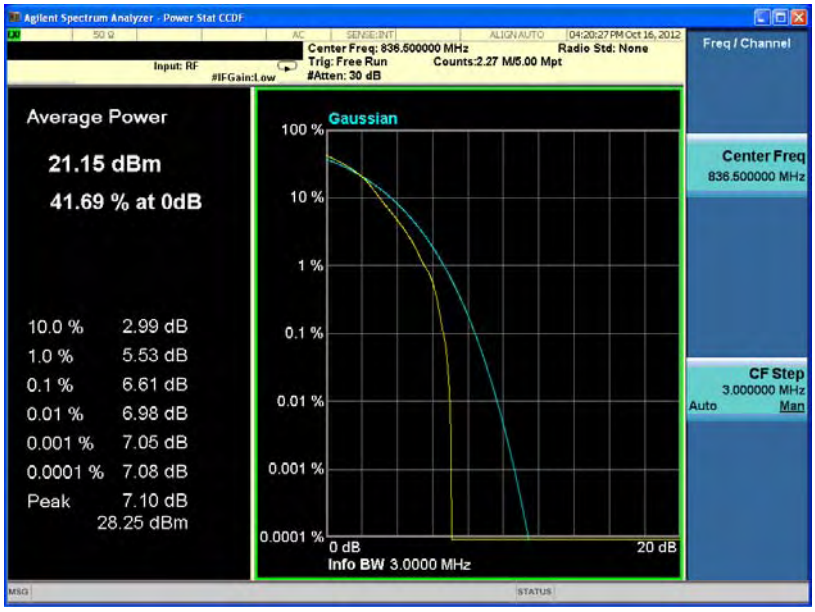
LTE Band 5 (Channel Bandwidth: 1.4MHz) _ QPSK	
Middle CH	

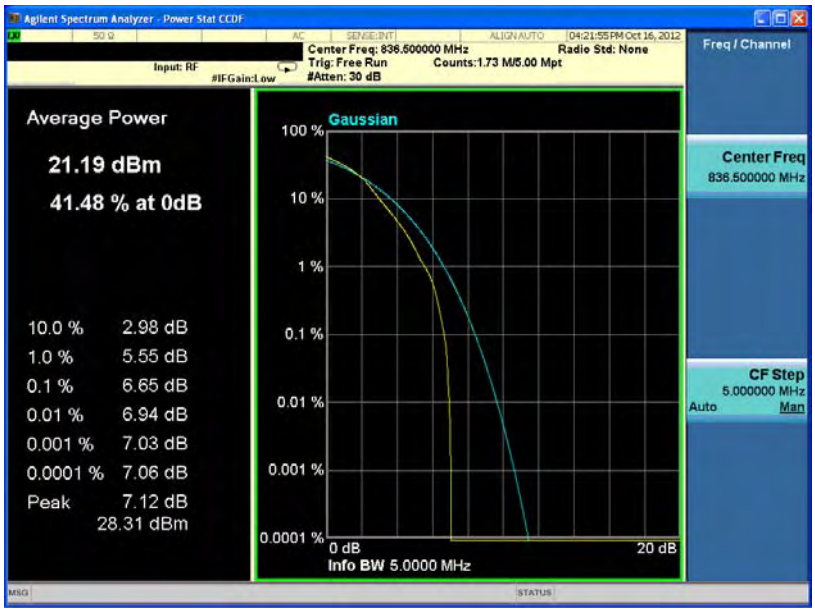
LTE Band 5 (Channel Bandwidth: 3MHz) _ QPSK	
Middle CH	

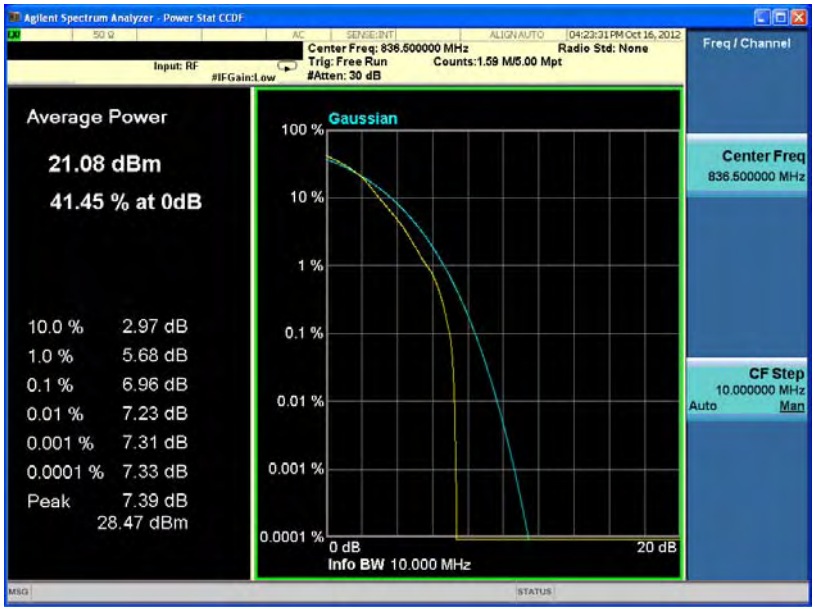
LTE Band 5 (Channel Bandwidth: 5MHz) _ QPSK	
Middle CH	

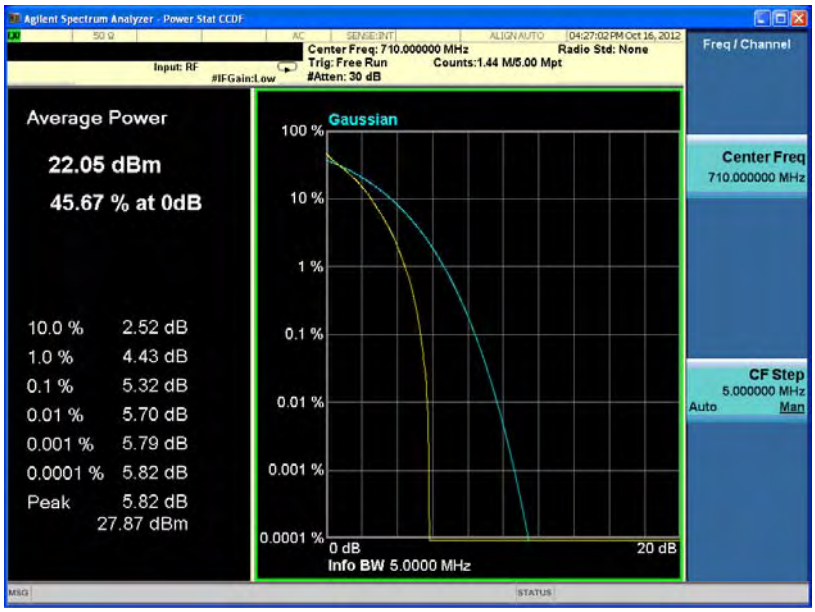
LTE Band 5 (Channel Bandwidth: 10MHz) _ QPSK	
Middle CH	

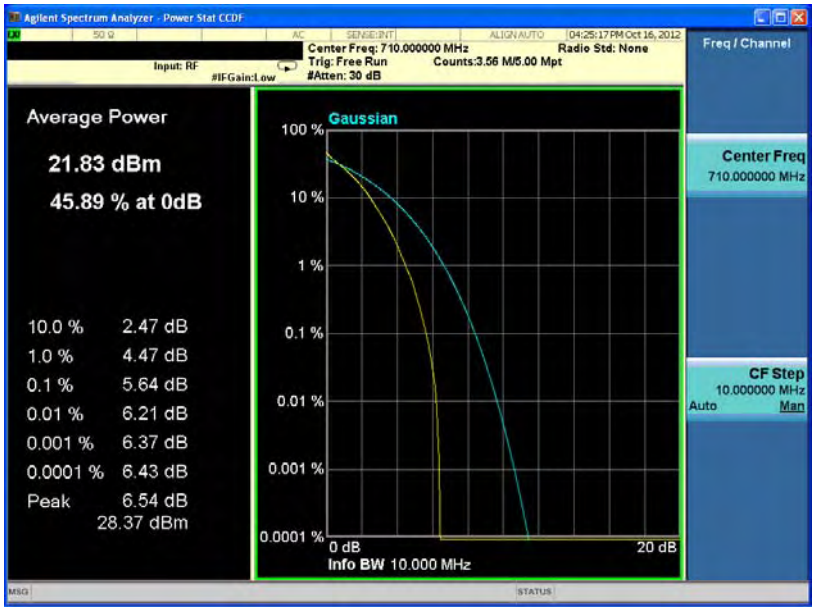
LTE Band 5 (Channel Bandwidth: 1.4MHz) _ 16QAM	
Middle CH	

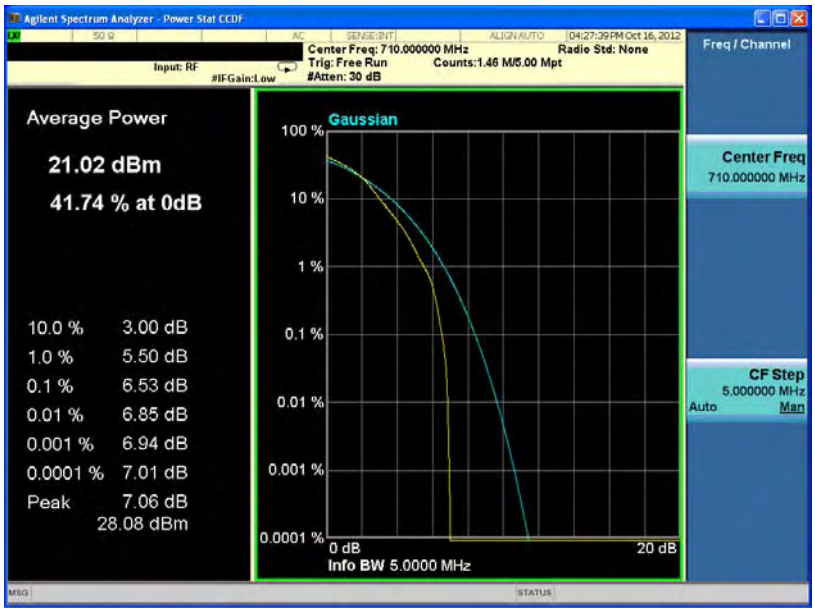
LTE Band 5 (Channel Bandwidth: 3MHz) _ 16QAM	
Middle CH	

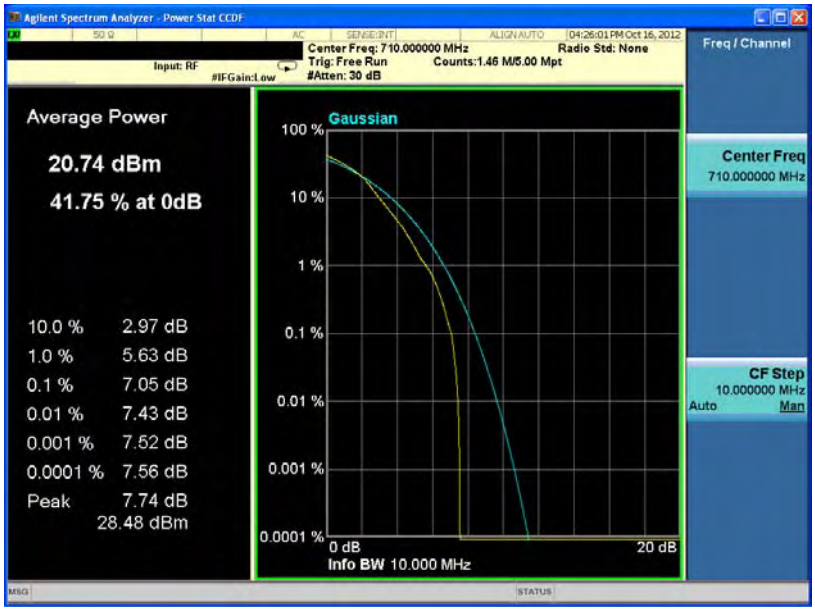
LTE Band 5 (Channel Bandwidth: 5MHz) _ 16QAM	
Middle CH	

LTE Band 5 (Channel Bandwidth: 10MHz) _ 16QAM	
Middle CH	

LTE Band 17 (Channel Bandwidth: 5MHz) _ QPSK	
Middle CH	

LTE Band 17 (Channel Bandwidth: 10MHz) _ QPSK	
Middle CH	

LTE Band 17 (Channel Bandwidth: 5MHz) _ 16QAM	
Middle CH	

LTE Band 17 (Channel Bandwidth: 10MHz) _ 16QAM	
Middle CH	

7 Band Edge Test

7.1. Limit

For operations in the 698 ~ 746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

For operations in the 1710 ~ 1755 MHz and 2110 ~ 2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 $\log_{10}$(P) dB. The limit of emission equal to -13dBm.In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

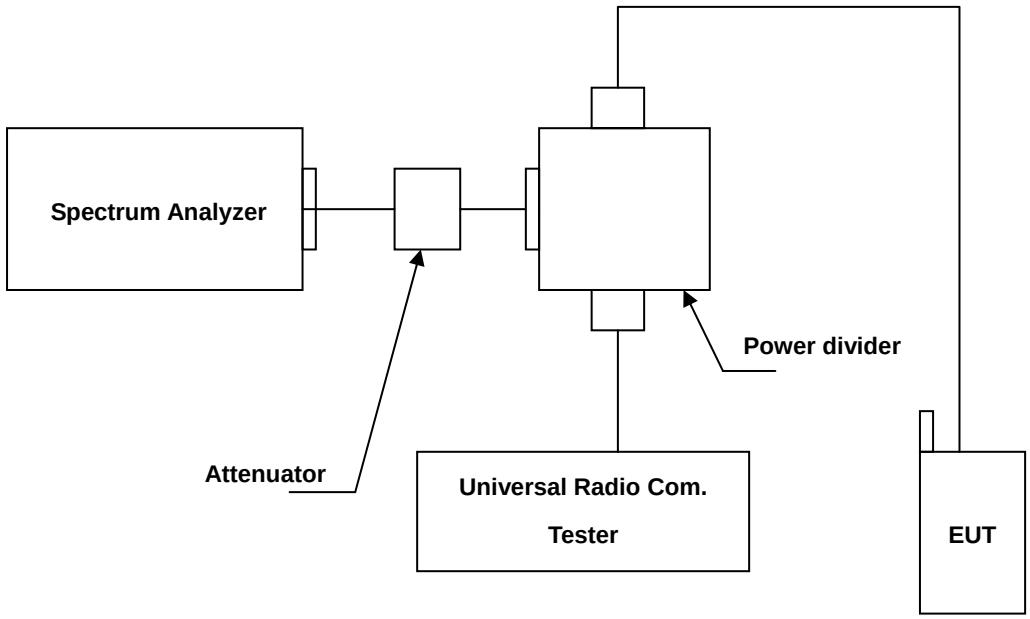
7.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/10/2012	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	12/01/2011	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

7.3. Setup



7.4. Test Procedure

The measurement is made according to FCC rules part 27:

a. The EUT was set up for the maximum peak power with LTE/WCDMA link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.)

b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. This splitter loss and cable loss are the worst loss 7.2 dB in the transmitted path track.

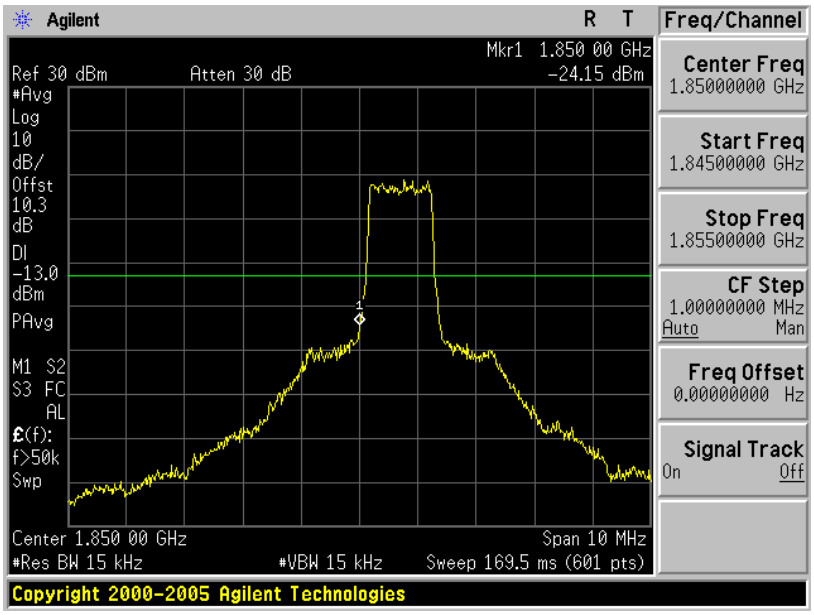
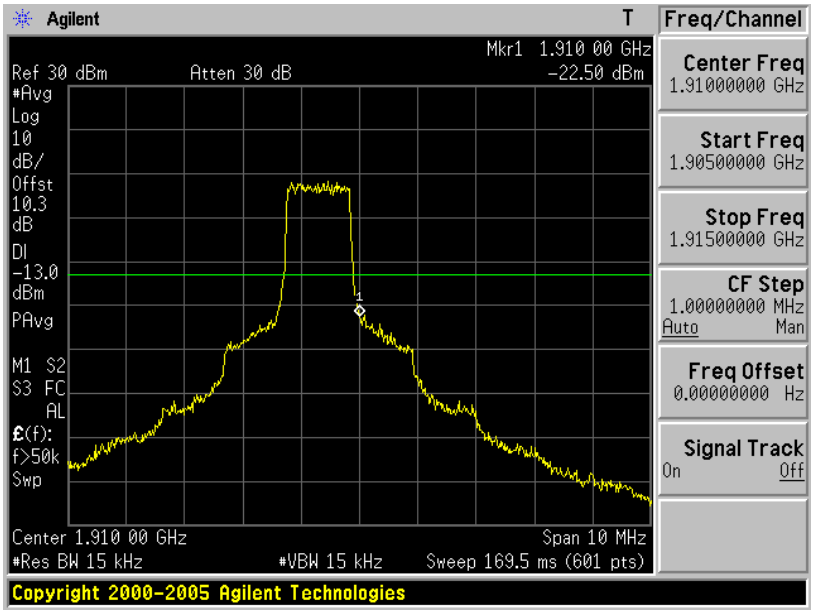
c. The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 50kHz and VB of the spectrum is 200kHz.

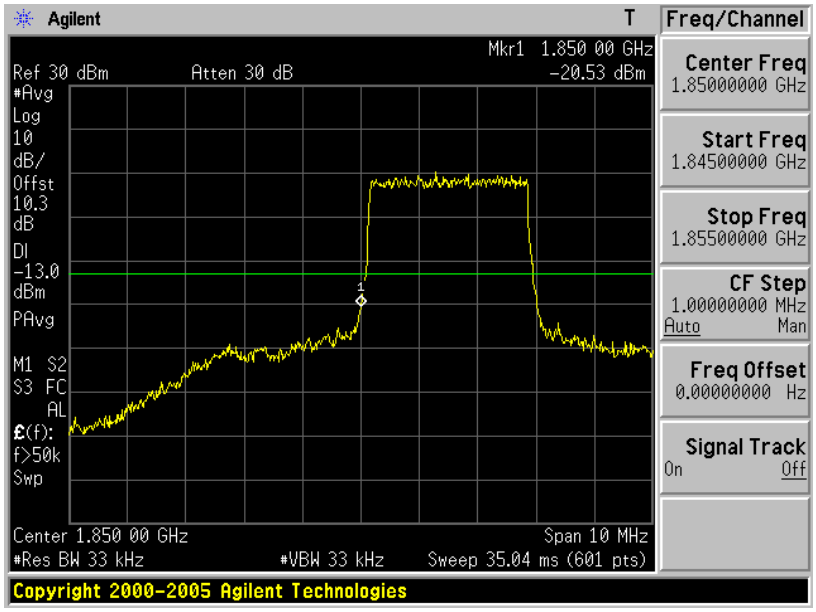
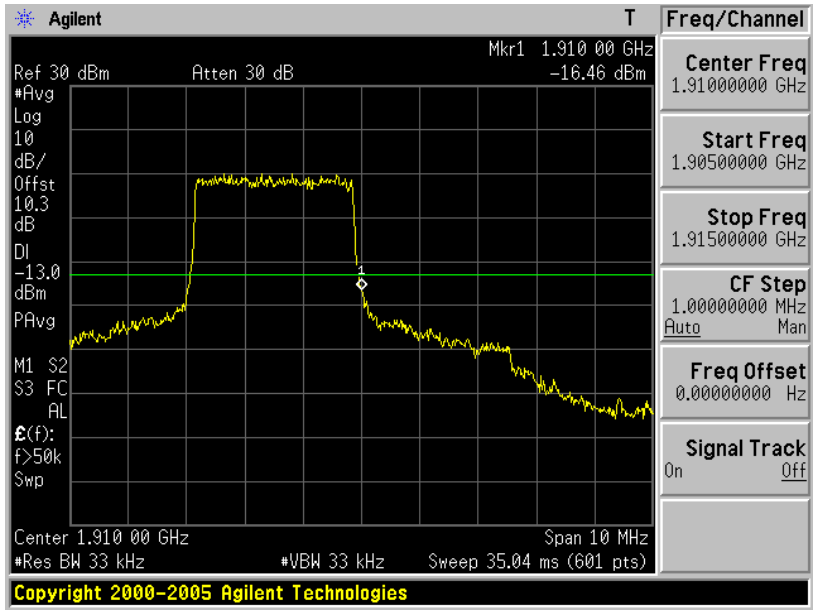
d. Record the max trace plot into the test report.

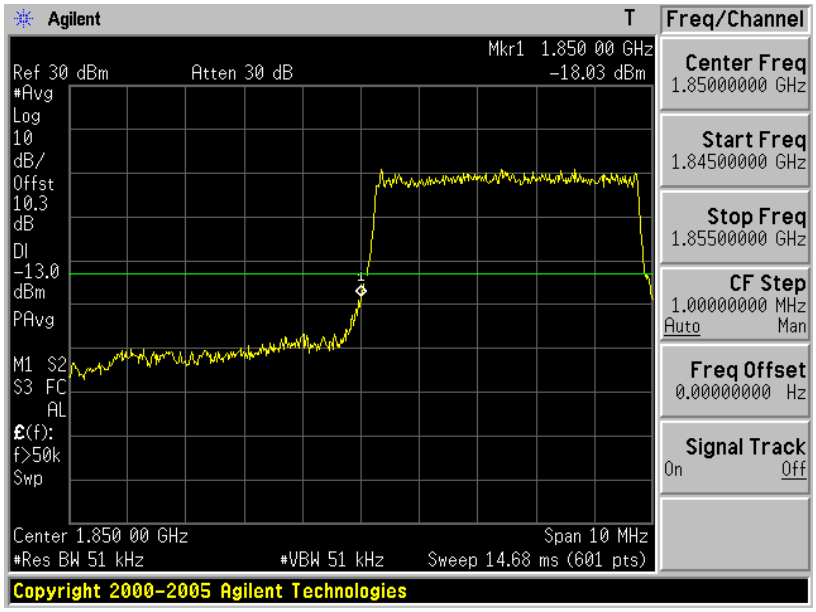
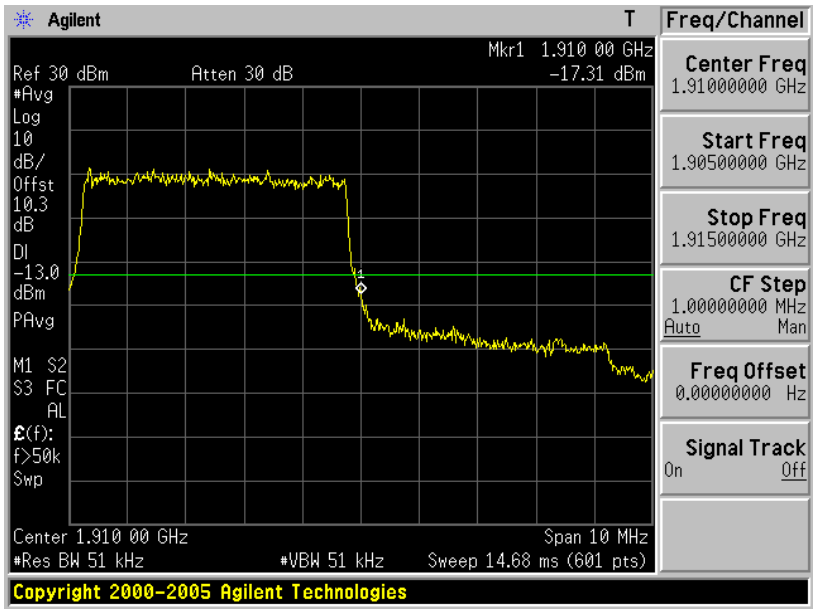
7.5. Uncertainty

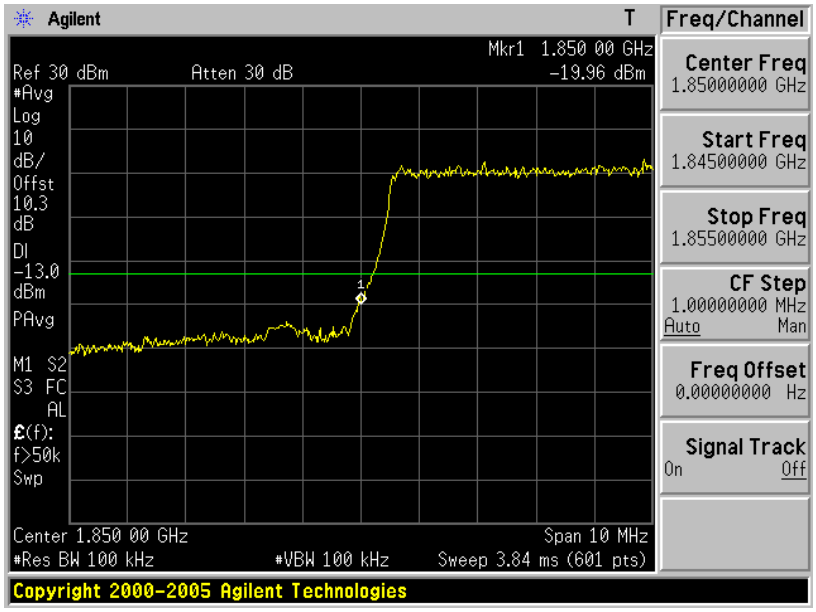
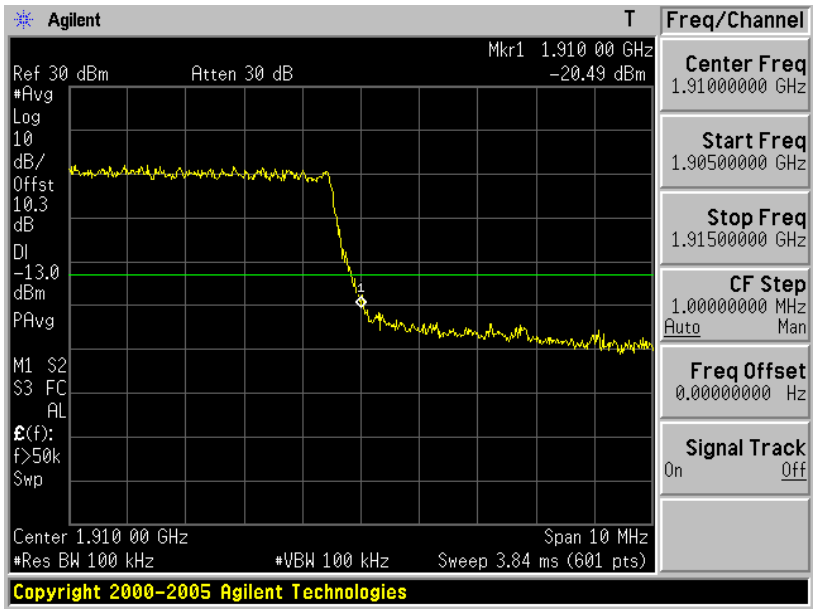
The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

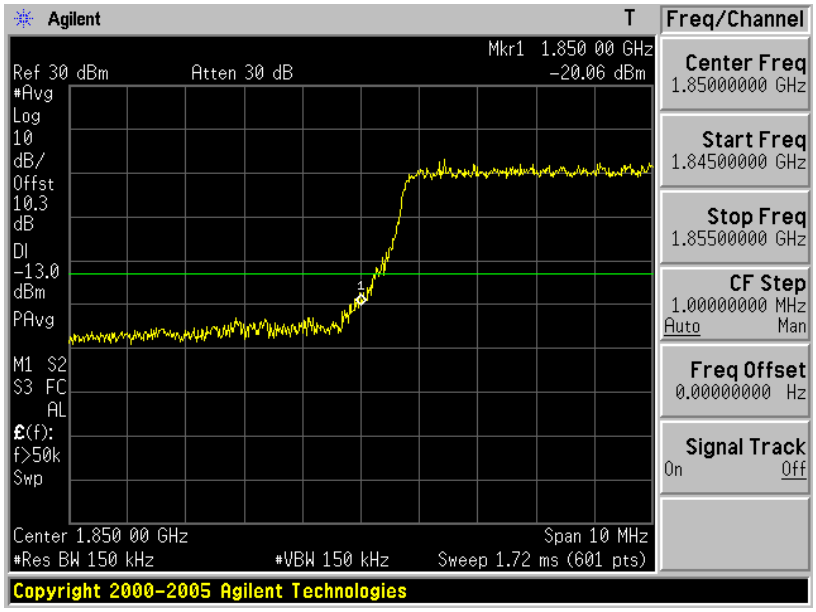
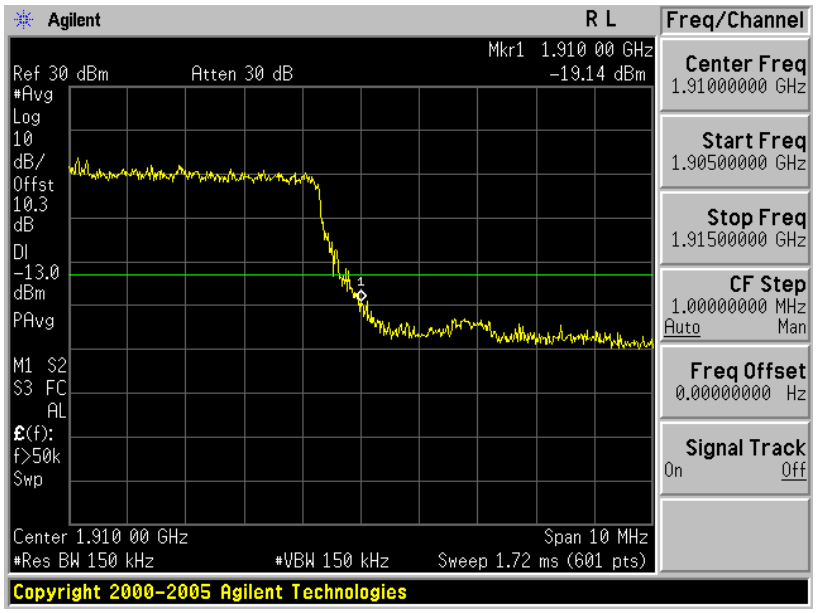
7.6. Test Result

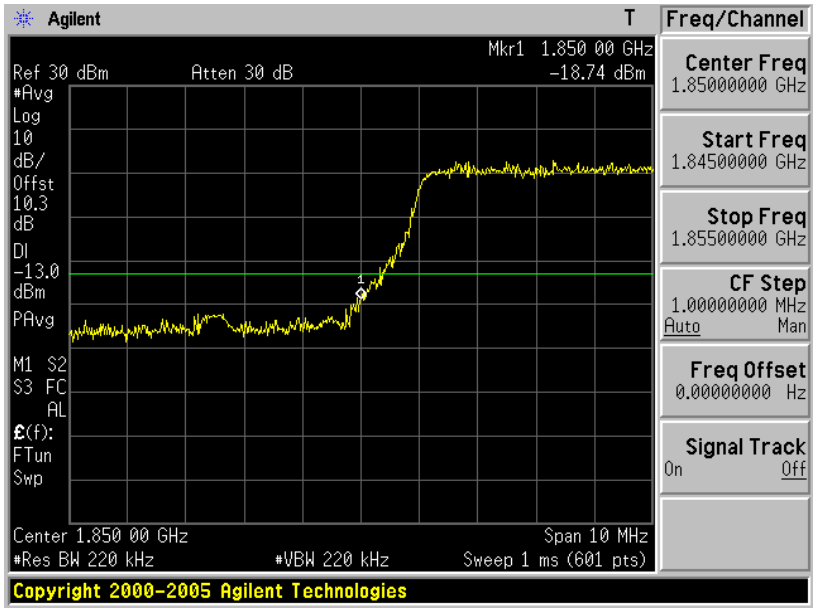
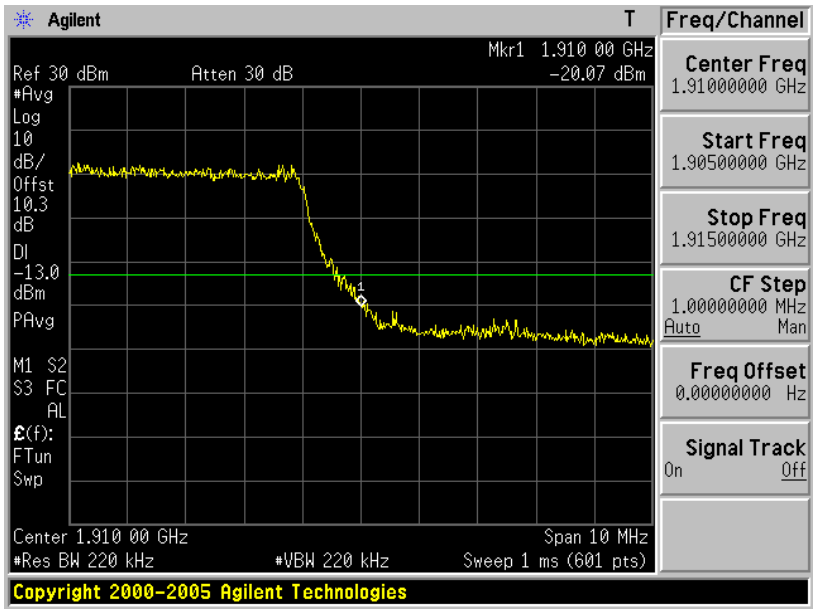
LTE Band 2 (Channel Bandwidth: 1.4MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

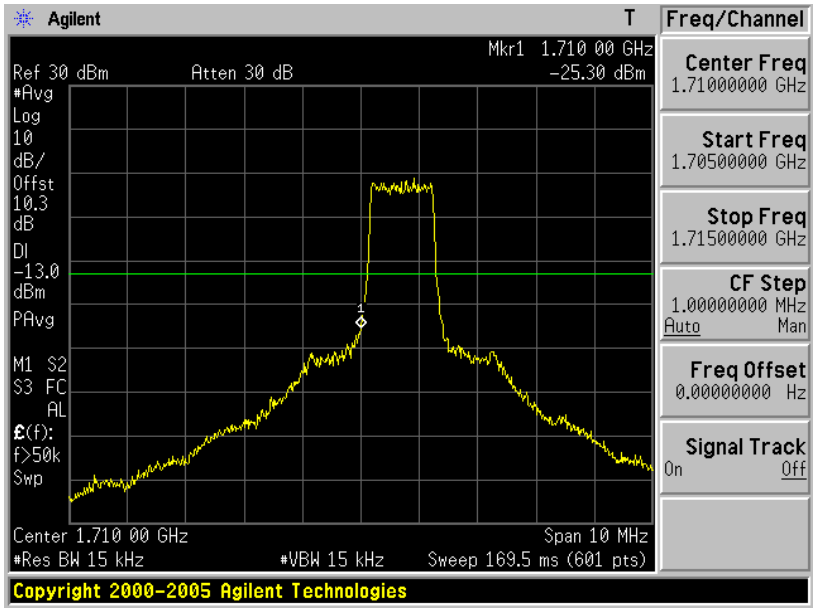
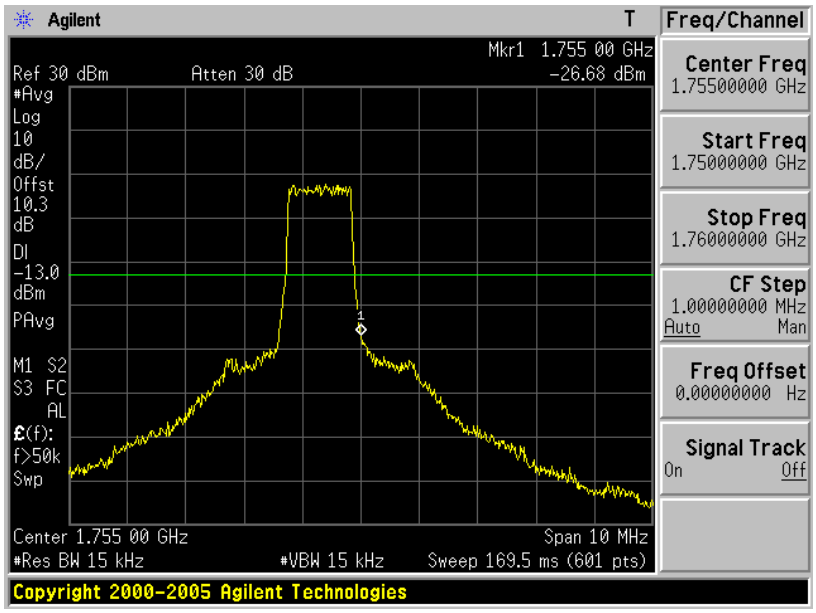
LTE Band 2 (Channel Bandwidth: 3MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

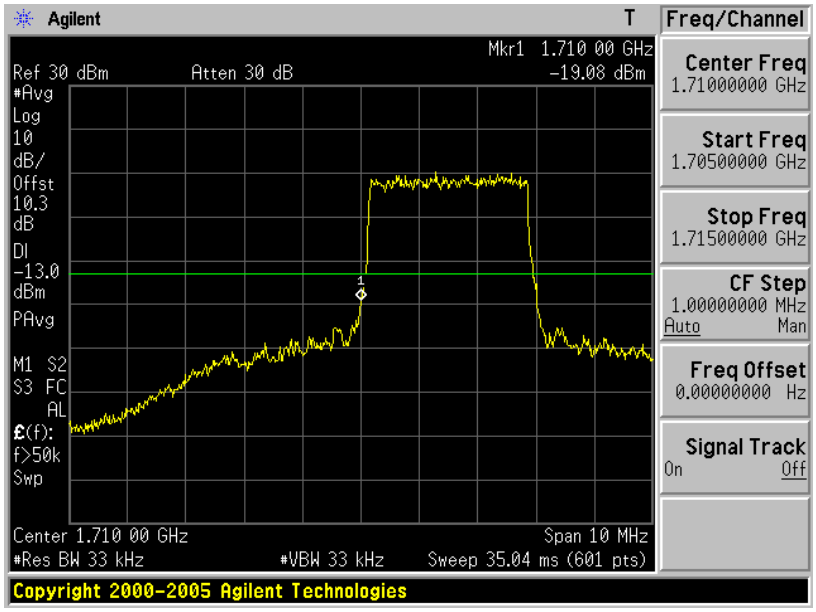
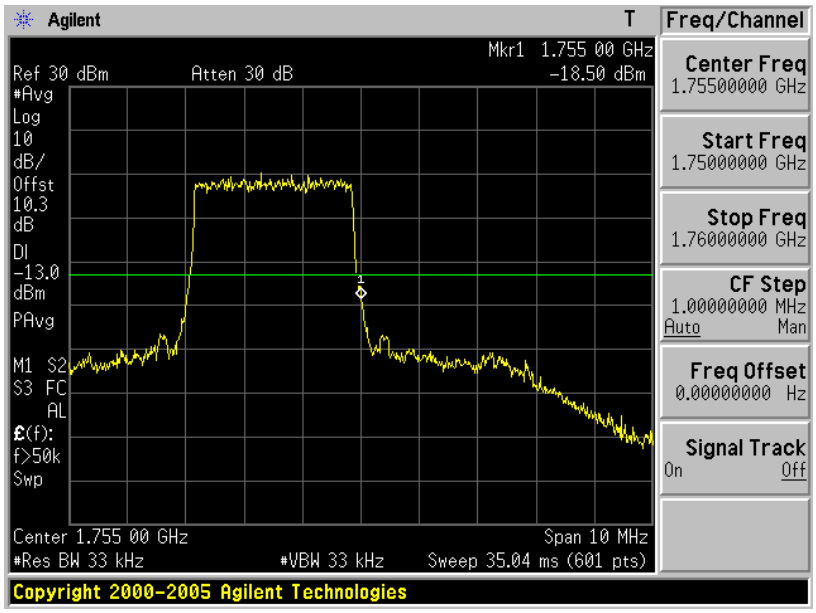
LTE Band 2 (Channel Bandwidth: 5MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

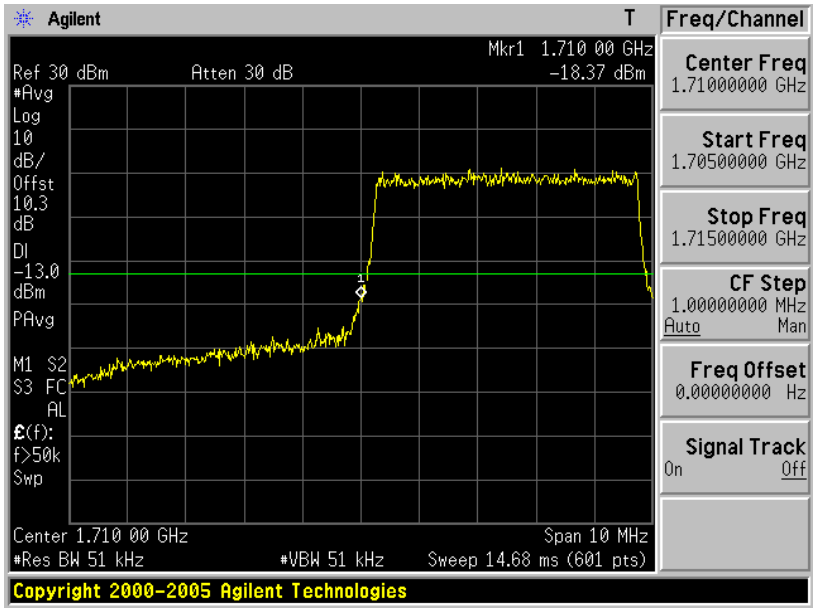
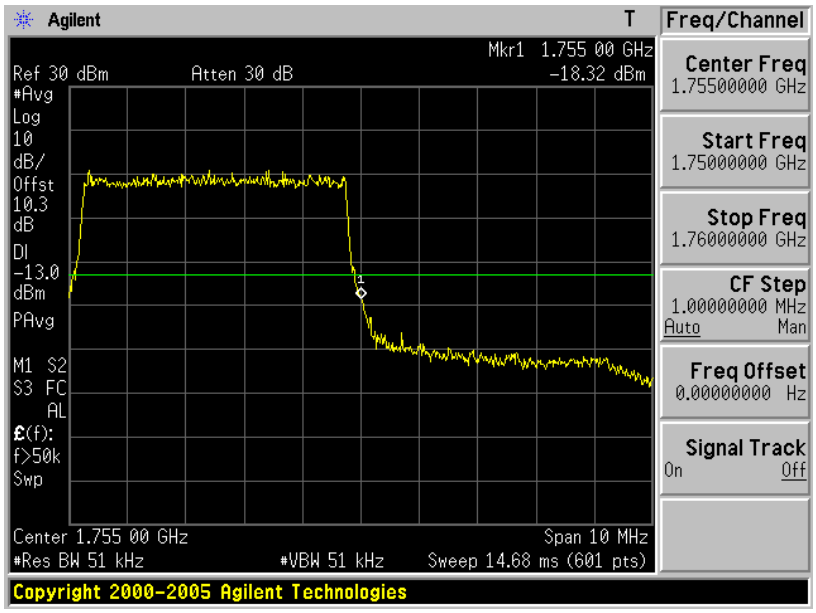
LTE Band 2 (Channel Bandwidth: 10MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

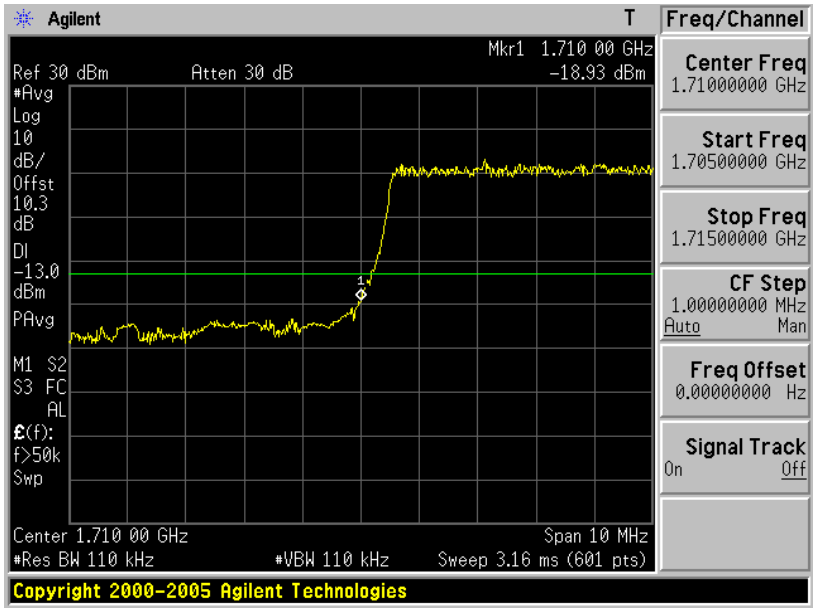
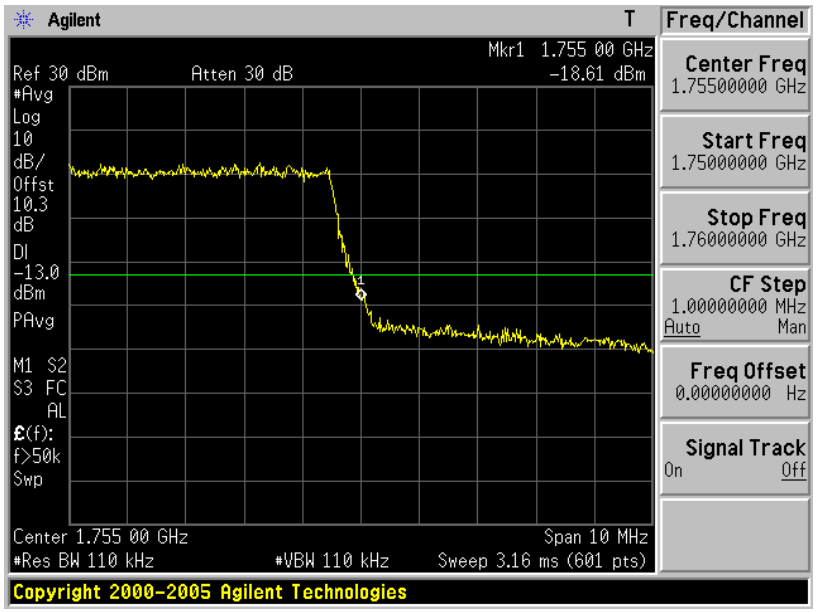
LTE Band 2 (Channel Bandwidth: 15MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

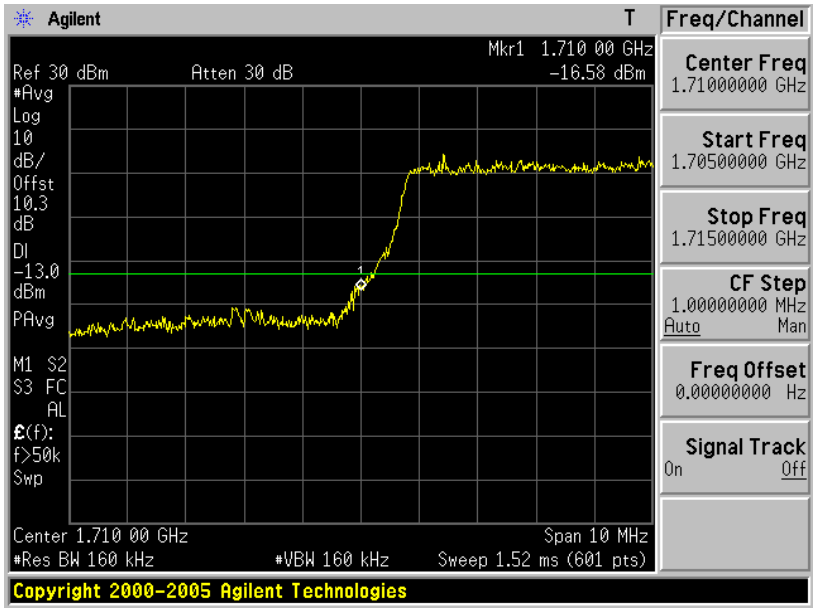
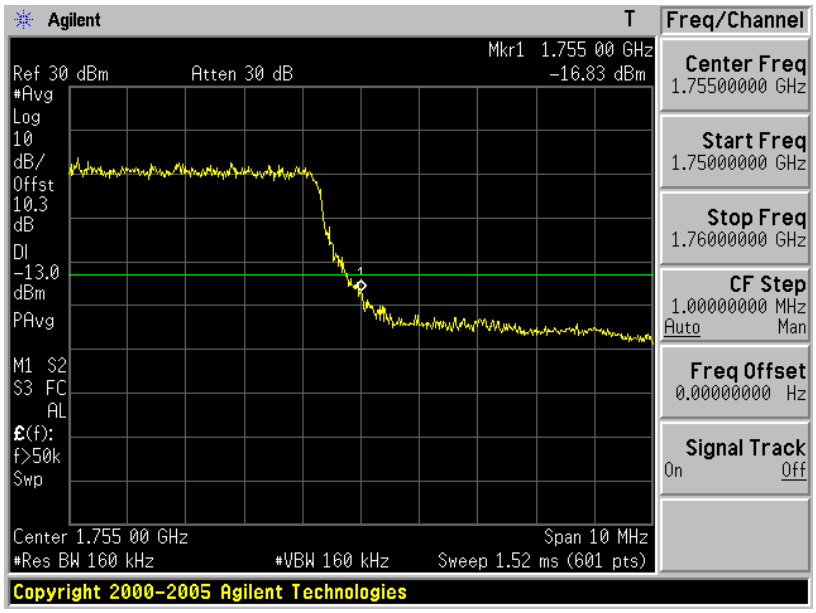
LTE Band 2 (Channel Bandwidth: 20MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

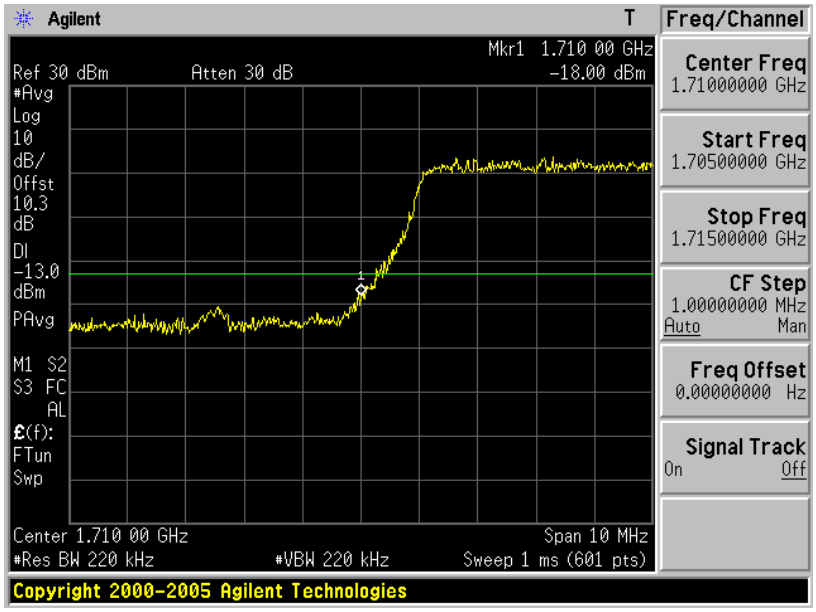
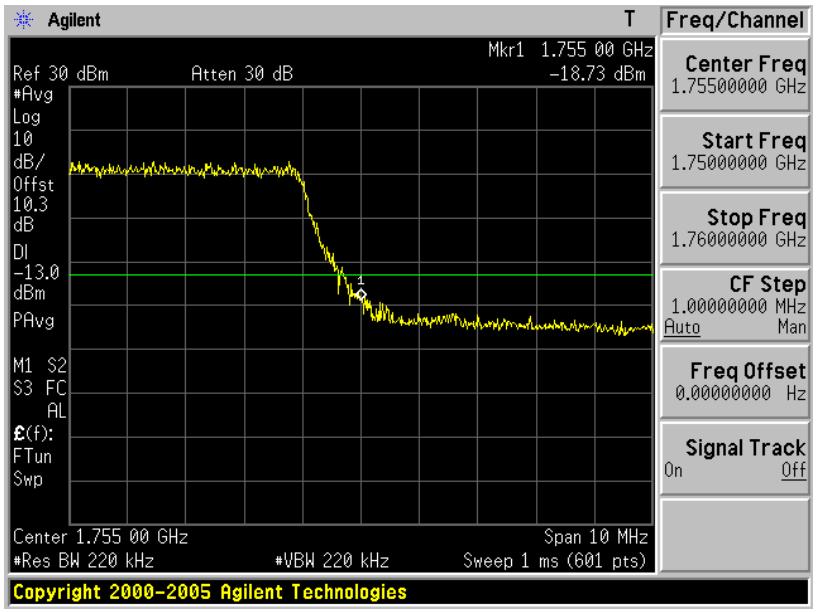
LTE Band 4 (Channel Bandwidth: 1.4MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

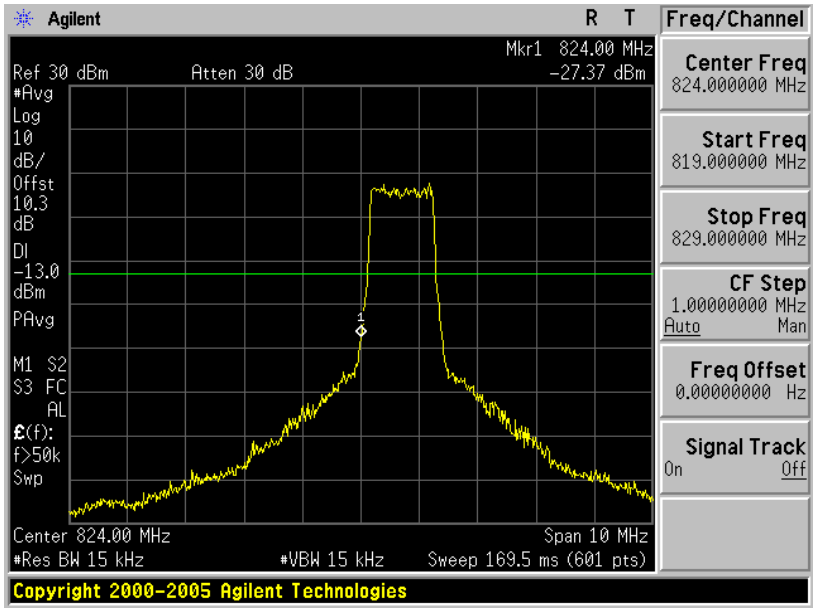
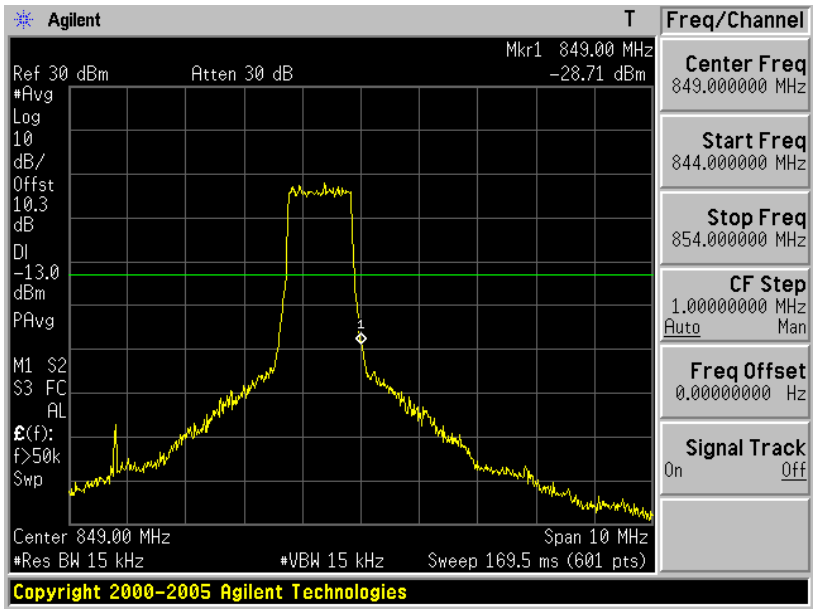
LTE Band 4 (Channel Bandwidth: 3MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

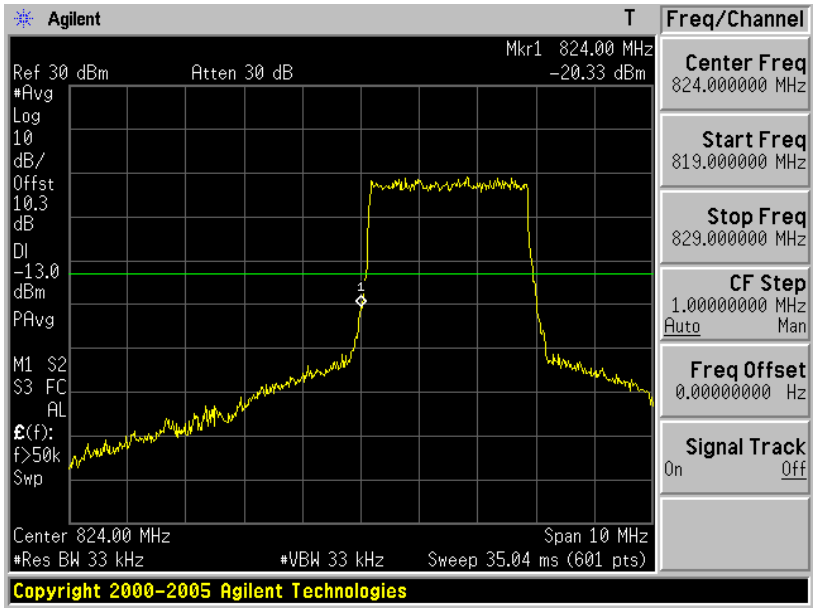
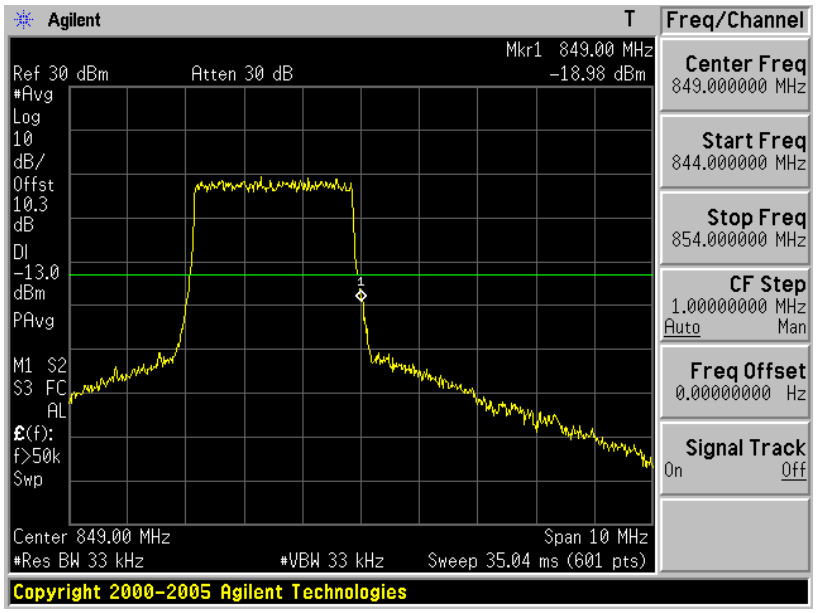
LTE Band 4 (Channel Bandwidth: 5MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

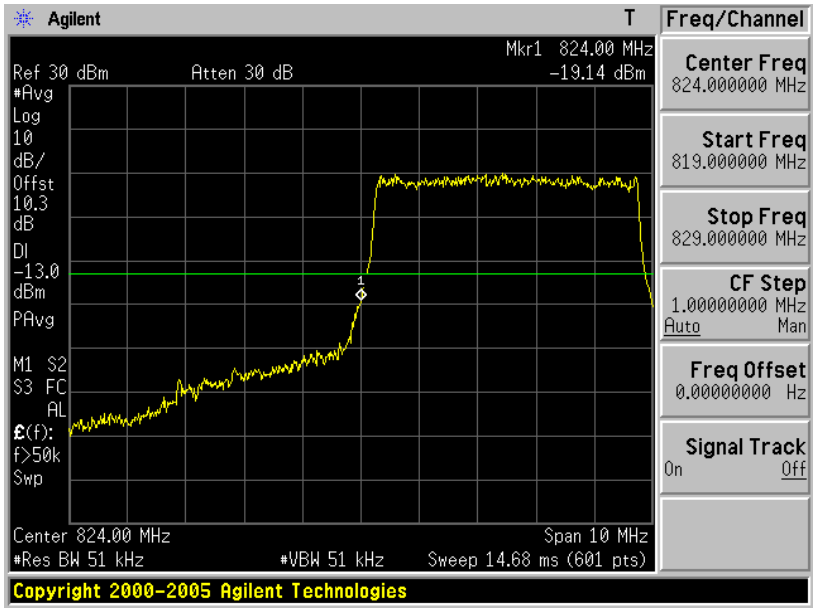
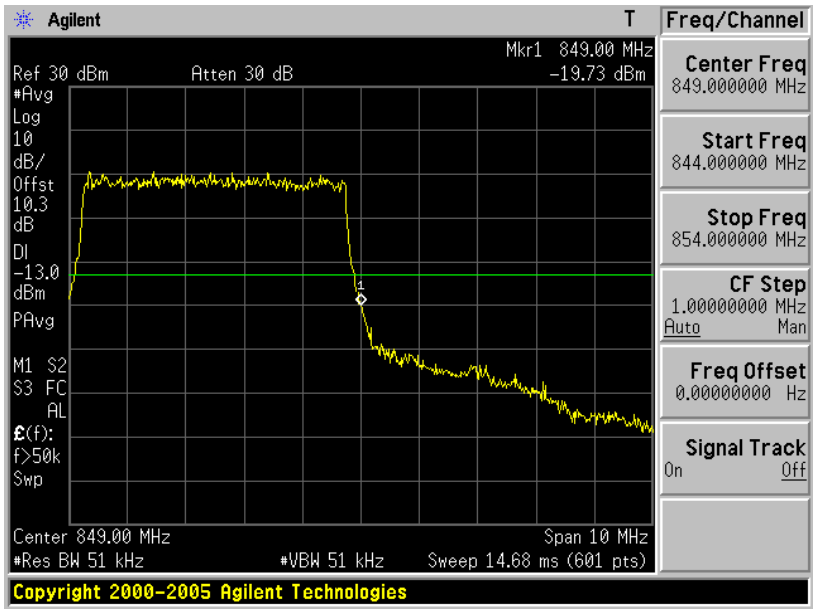
LTE Band 4 (Channel Bandwidth: 10MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

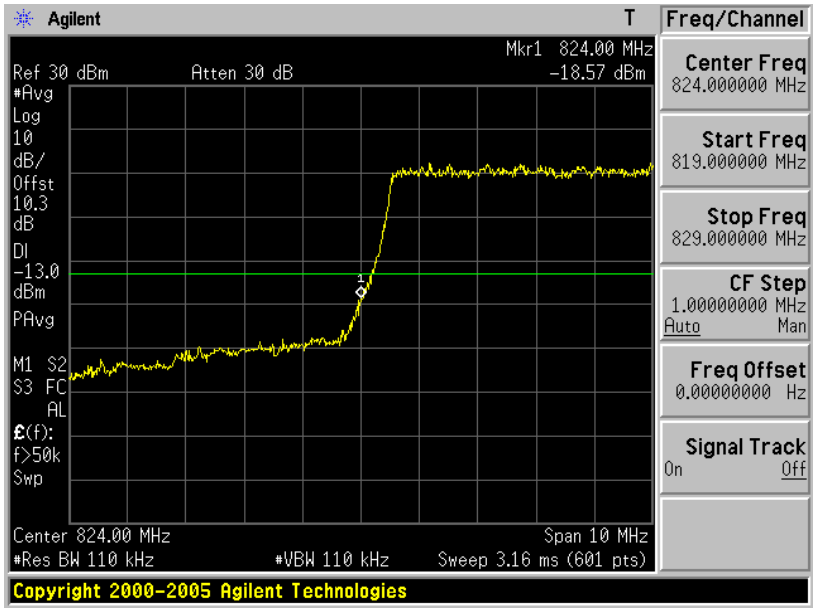
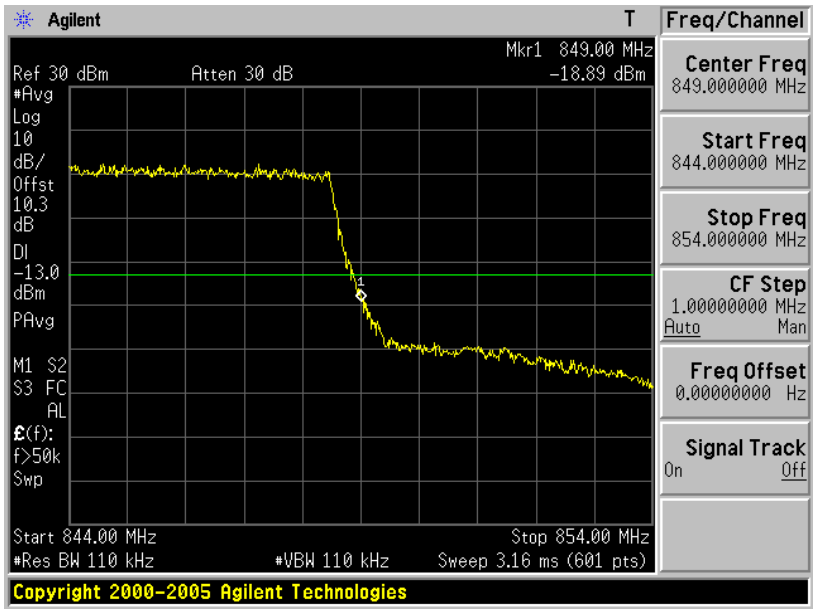
LTE Band 4 (Channel Bandwidth: 15MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

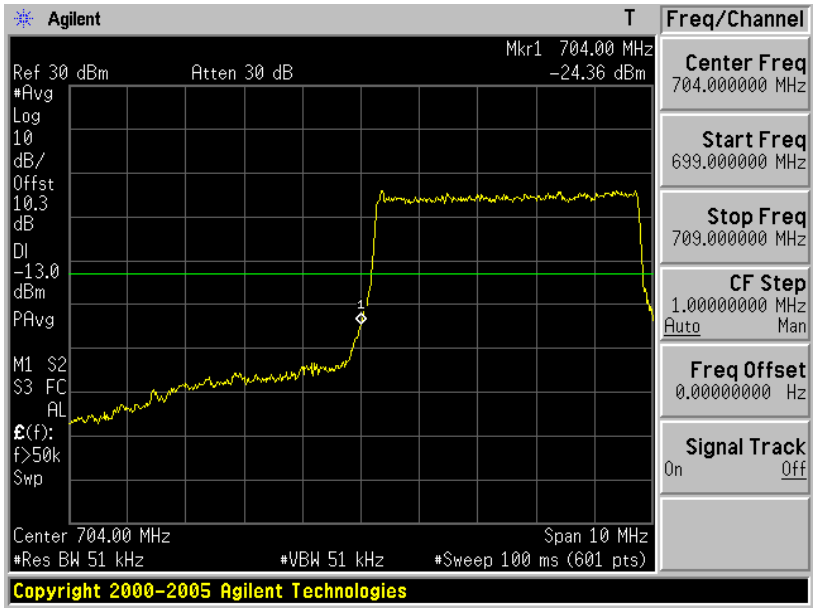
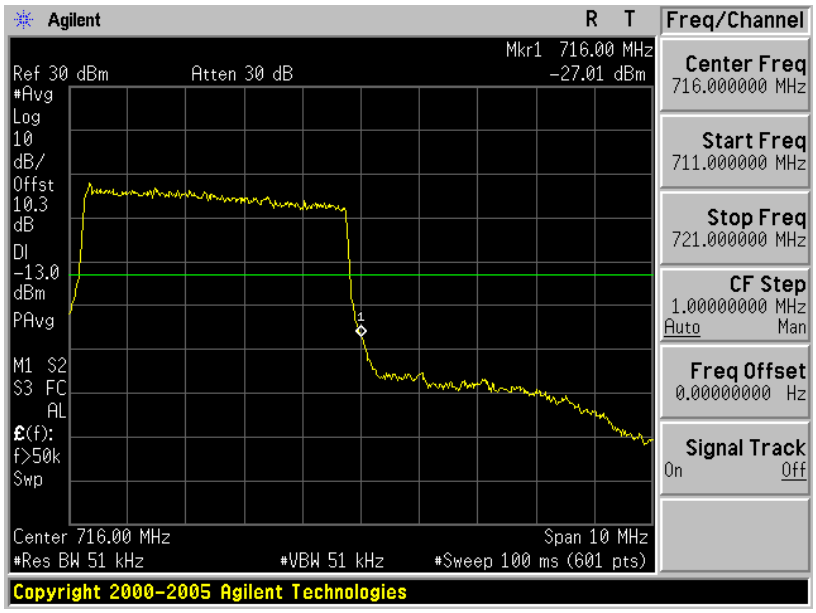
LTE Band 4 (Channel Bandwidth: 20MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

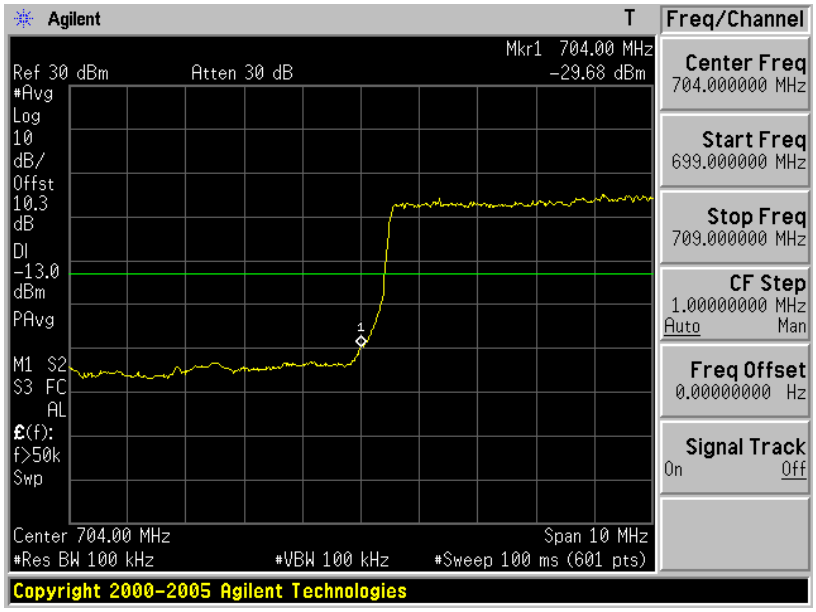
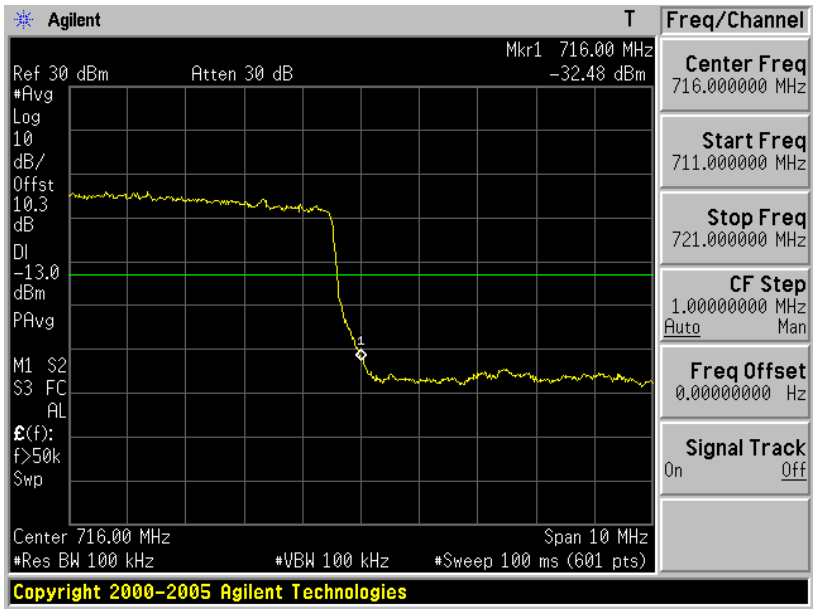
LTE Band 5 (Channel Bandwidth: 1.4MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

LTE Band 5 (Channel Bandwidth: 3MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

LTE Band 5 (Channel Bandwidth: 5MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

LTE Band 5 (Channel Bandwidth: 10MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

LTE Band 17 (Channel Bandwidth: 5MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

LTE Band 17 (Channel Bandwidth: 10MHz) _ QPSK _ Full RB Allocated	
Lower Band Edge	
Higher Band Edge	

8 Conducted Spurious Emission Test

8.1. Limit

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 $\log_{10}$(P) dB. The limit of emission equal to -13dBm

8.2. Test Instruments

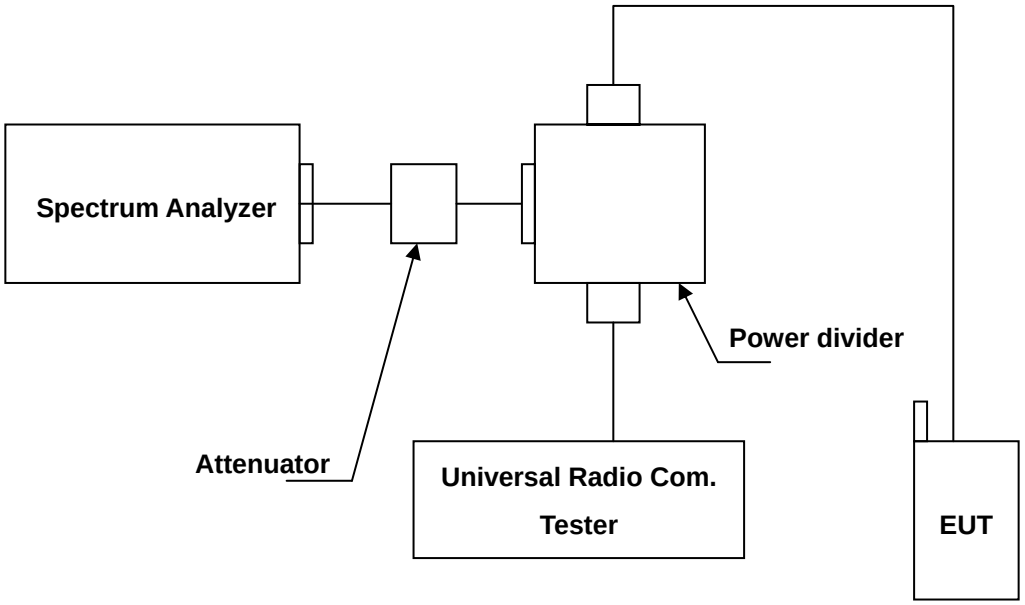
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/10/2012	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	12/01/2011	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

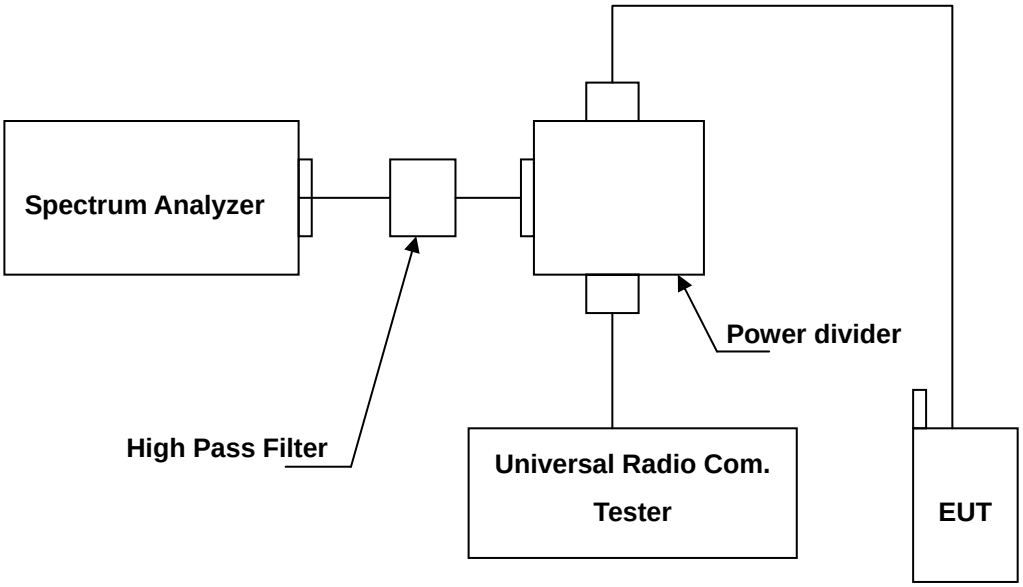
Note: N.C.R. = No Calibration Request.

8.3. Setup

Below 2.8GHz



Above 2.8GHz



8.4. Test Procedure

a. The EUT was set up for the maximum peak power with LTE / WCDMA link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range.).

b. The conducted spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

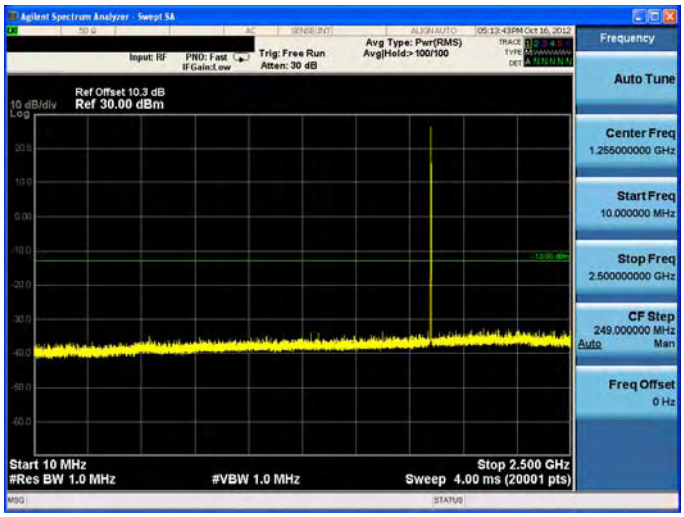
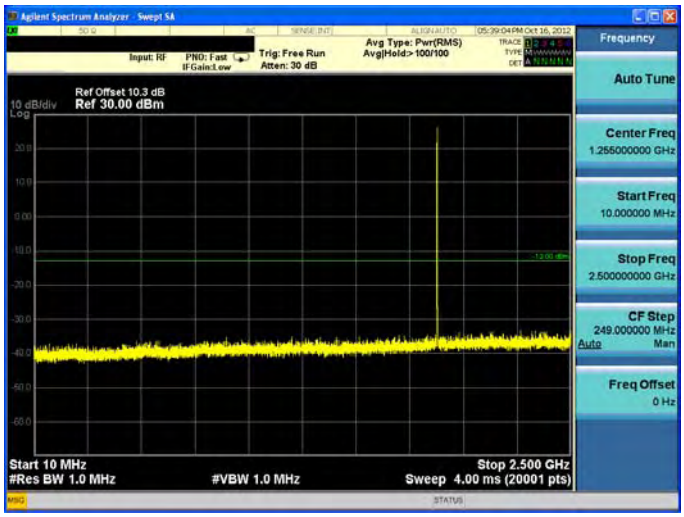
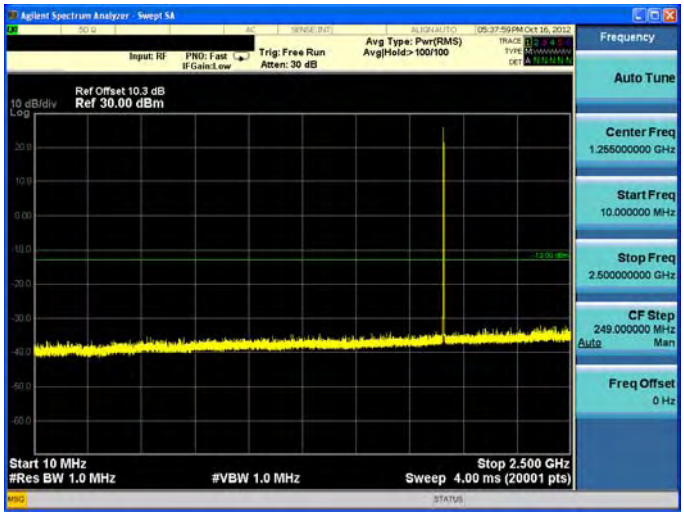
c. When the spectrum scanned from 30MHz to 3GHz, it shall be connected to the band reject filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.

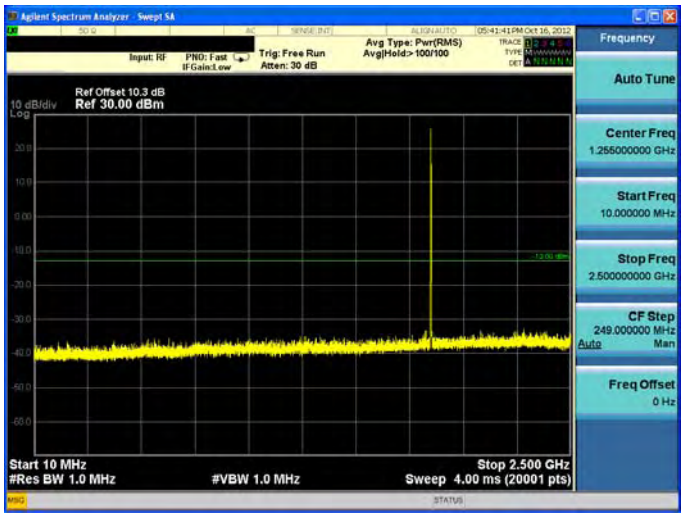
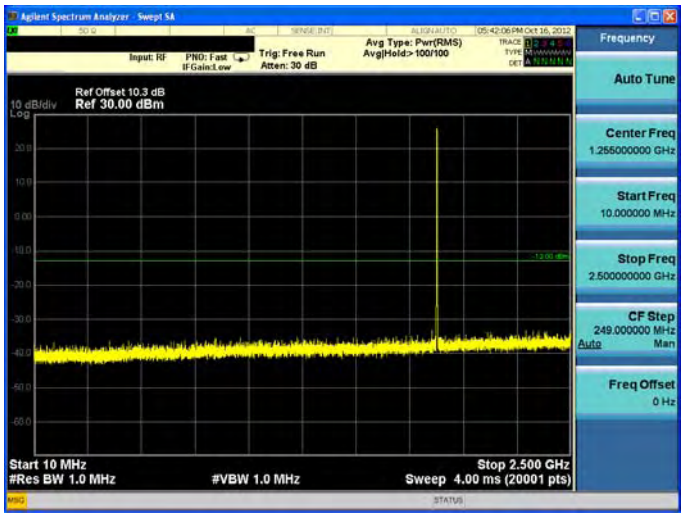
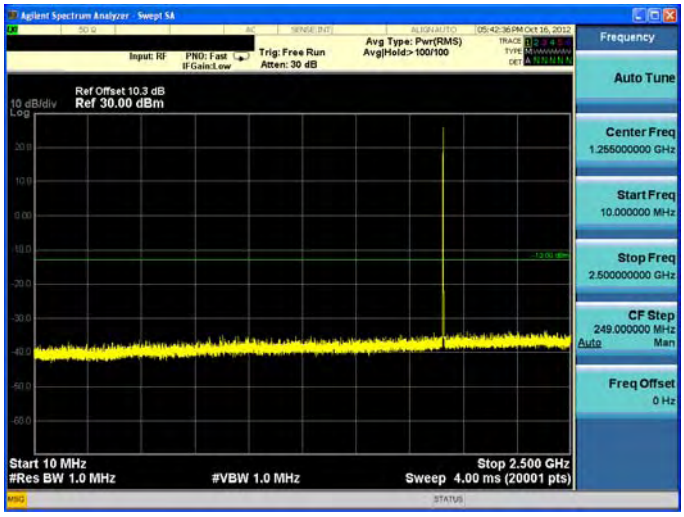
d. When the spectrum scanned from 3GHz to 20GHz, it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.

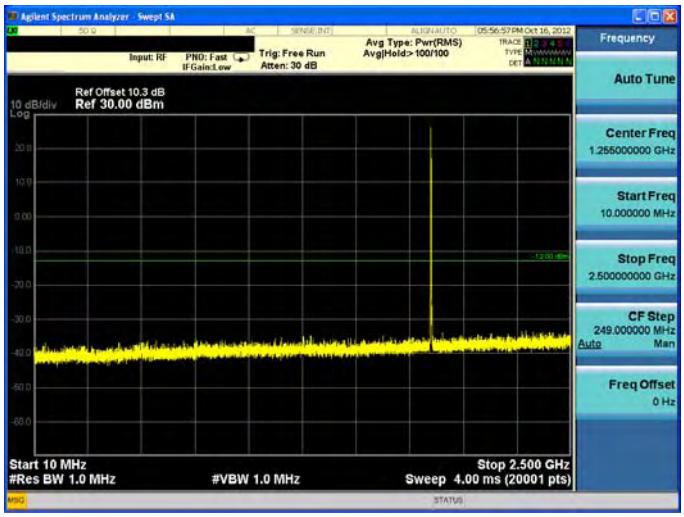
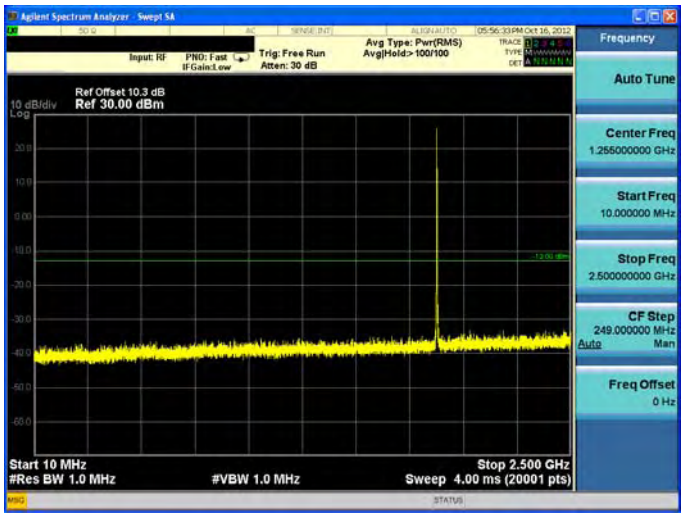
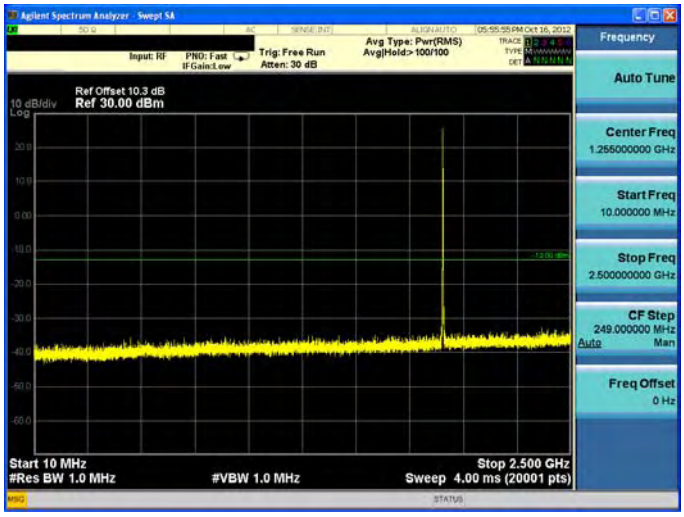
8.5. Uncertainty

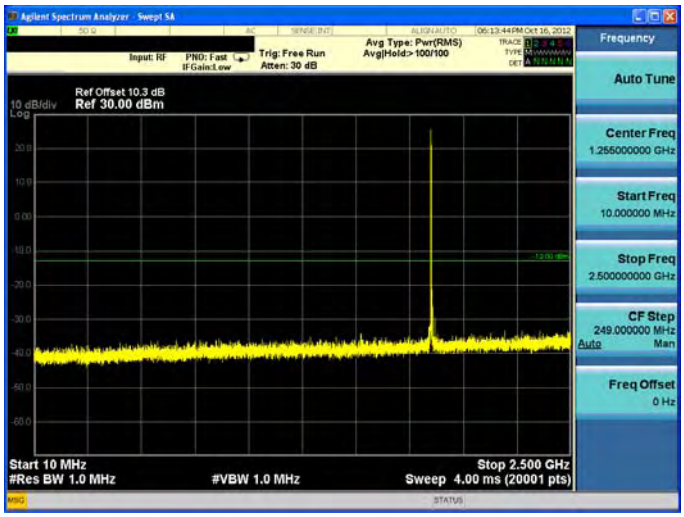
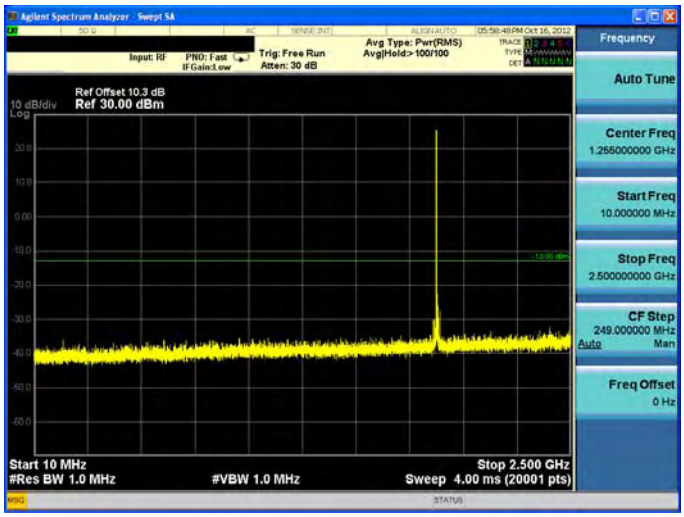
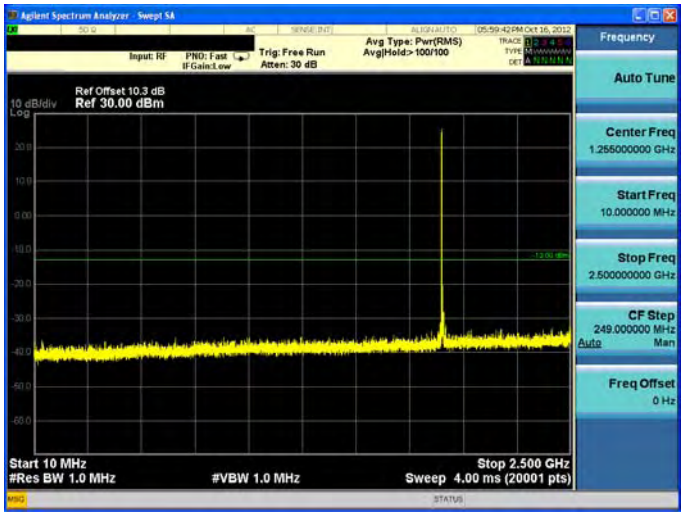
The measurement uncertainty is evaluated as ± 2.24 dB.

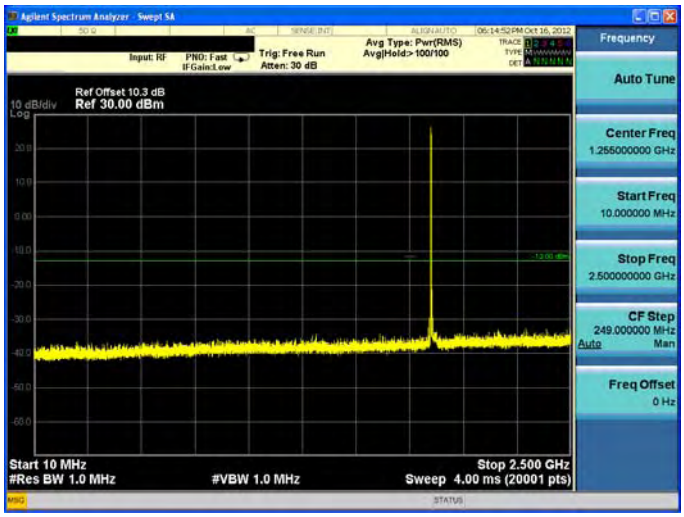
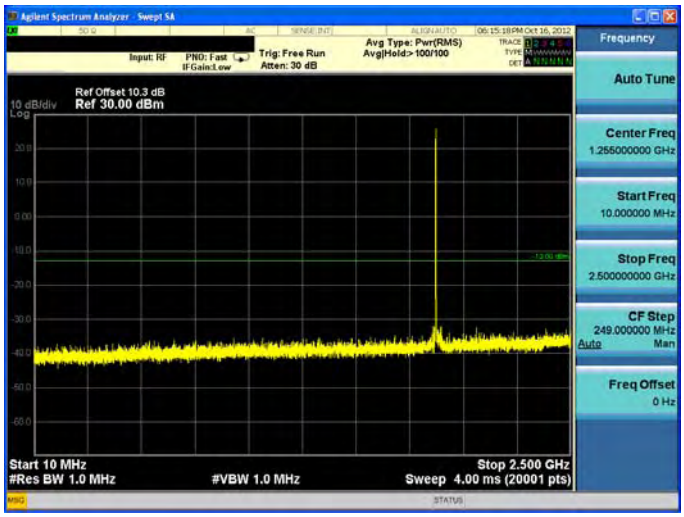
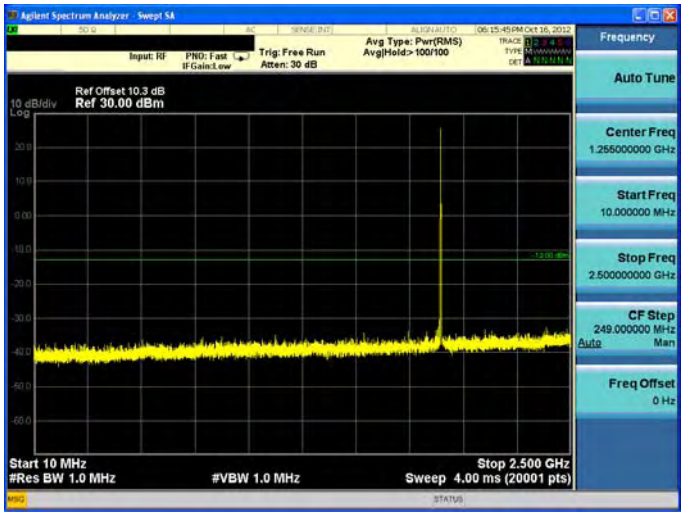
8.6. Test Graphs

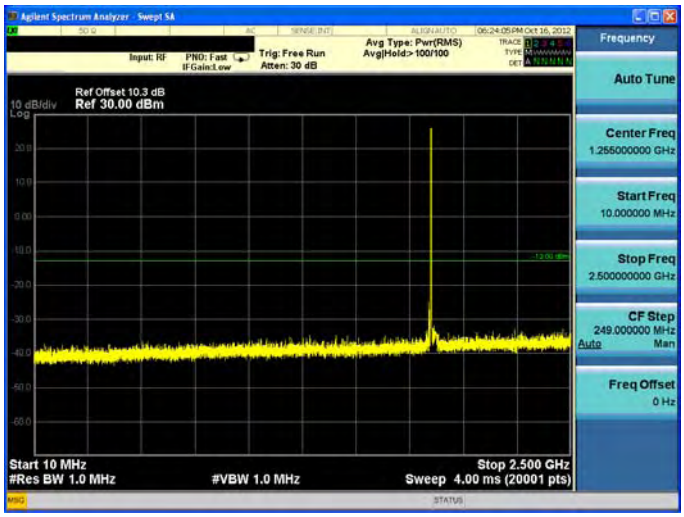
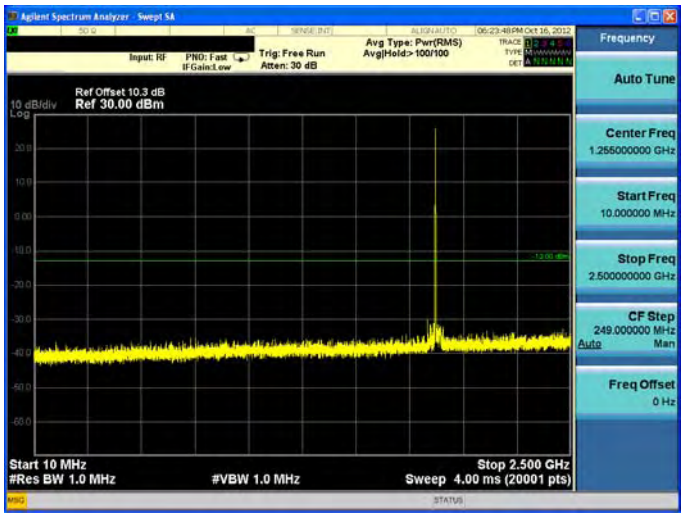
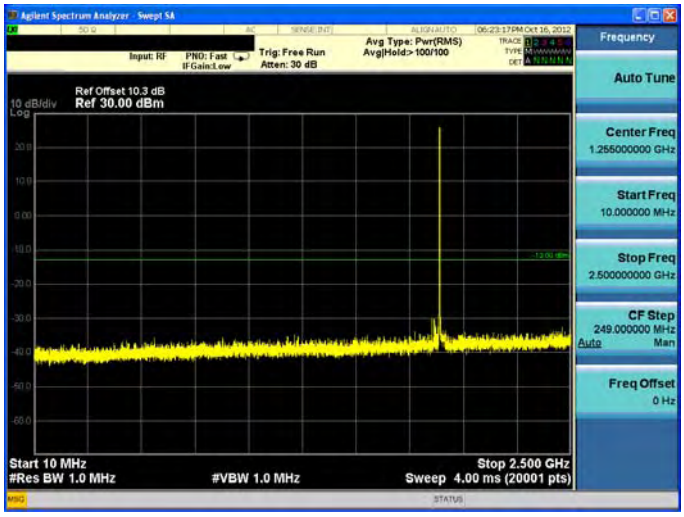
LTE Band 2 (Channel Bandwidth: 1.4MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

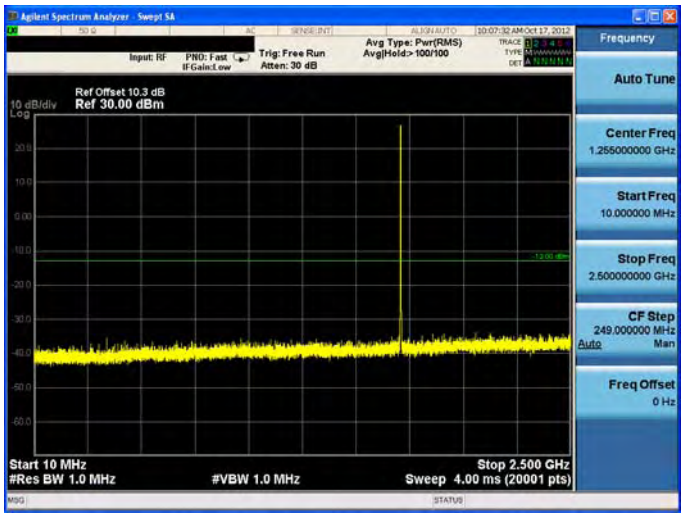
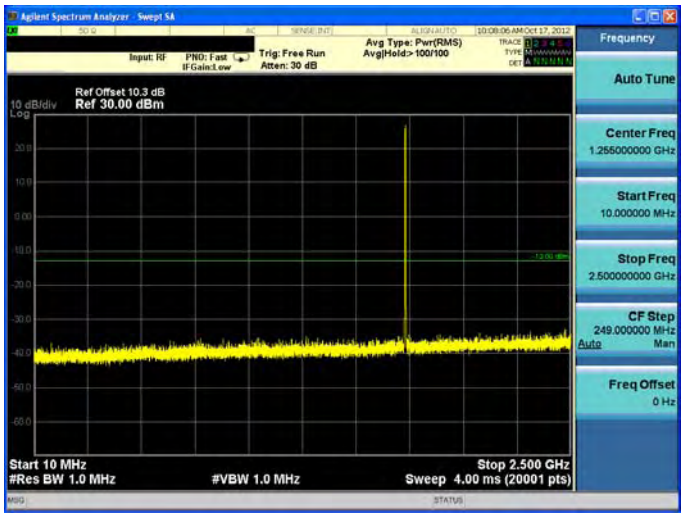
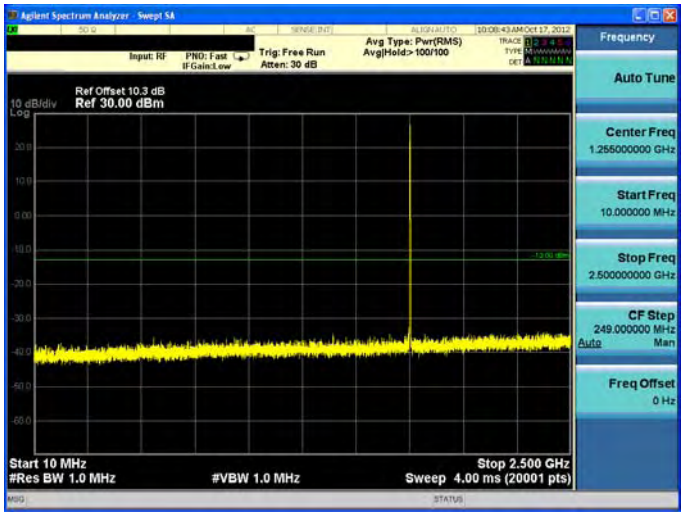
LTE Band 2 (Channel Bandwidth: 3MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

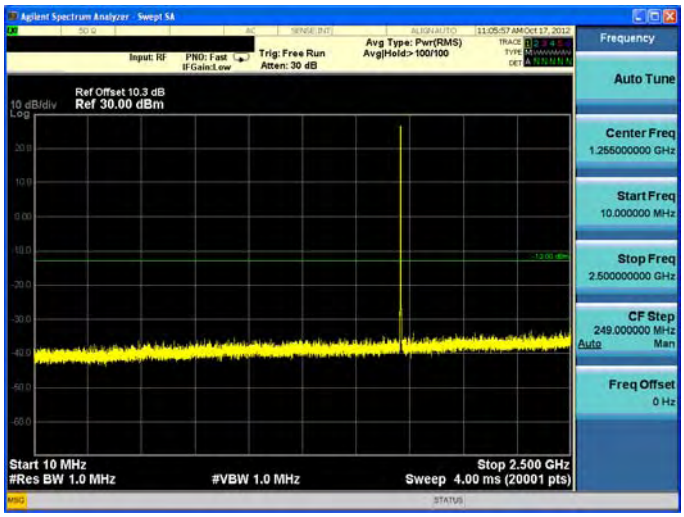
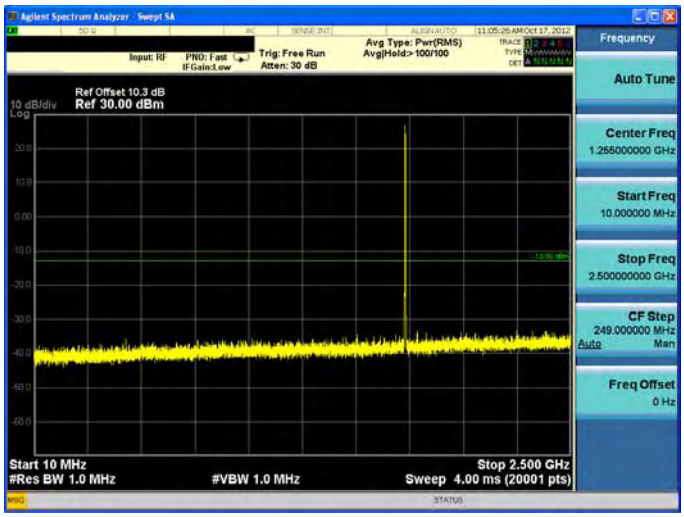
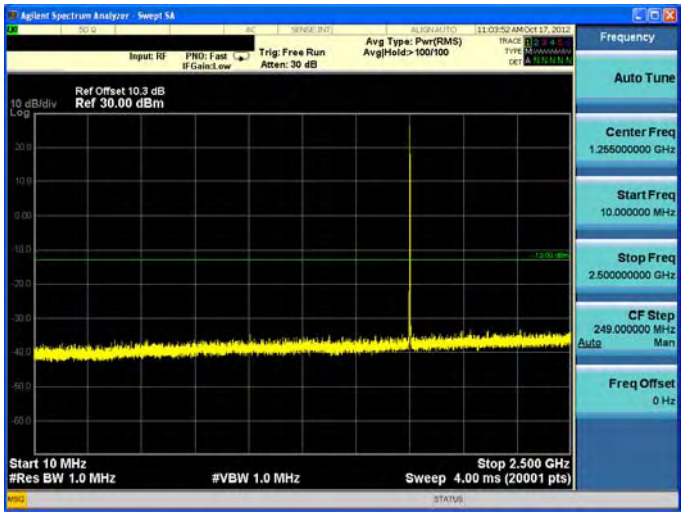
LTE Band 2 (Channel Bandwidth: 5MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

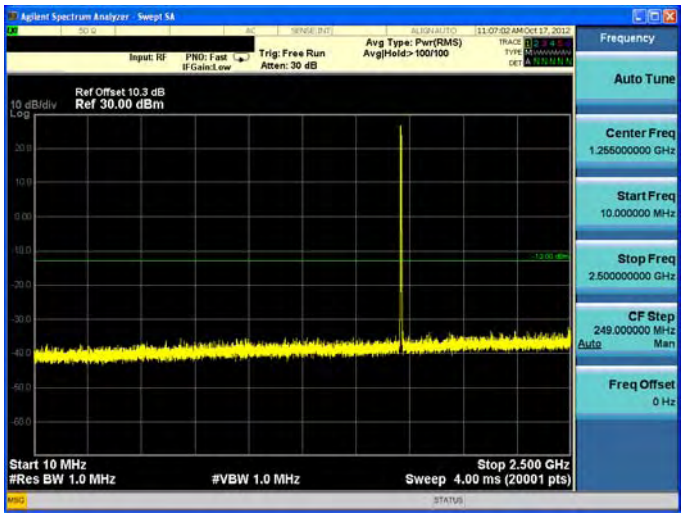
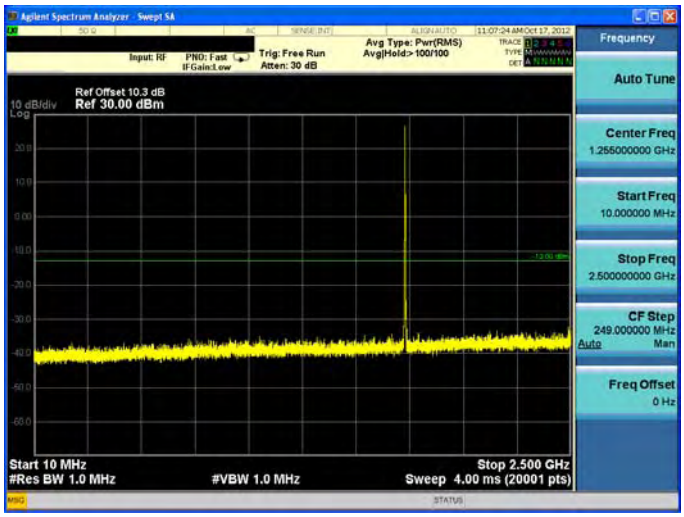
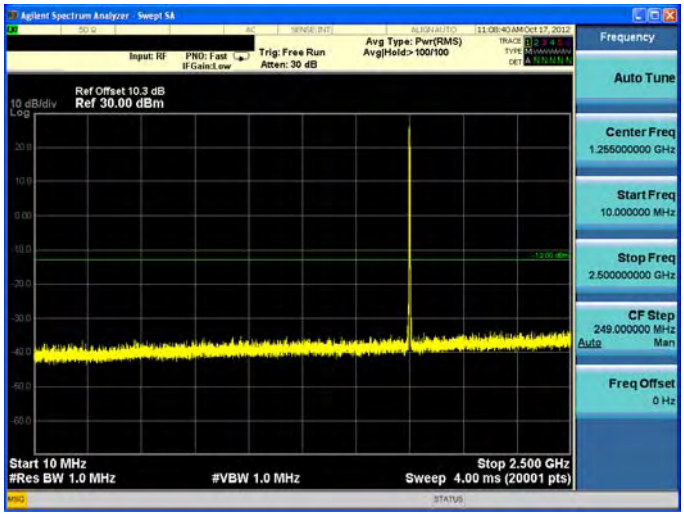
LTE Band 2 (Channel Bandwidth: 10MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

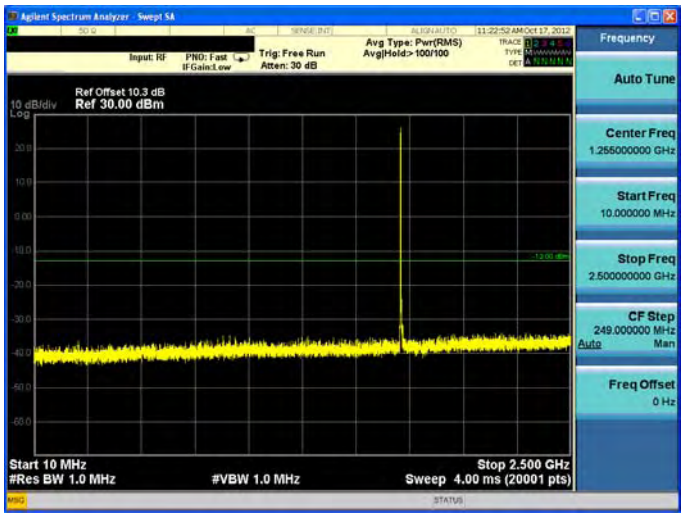
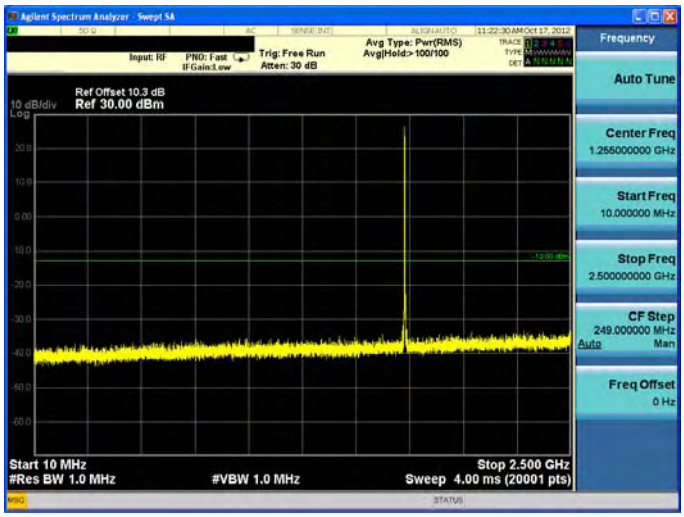
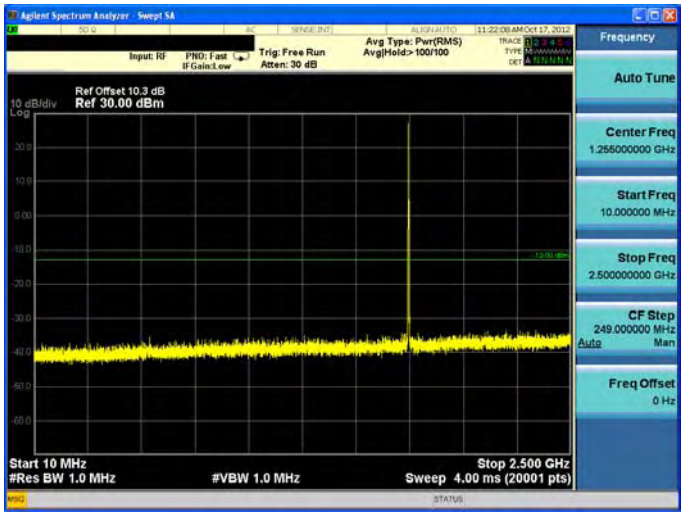
LTE Band 2 (Channel Bandwidth: 15MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

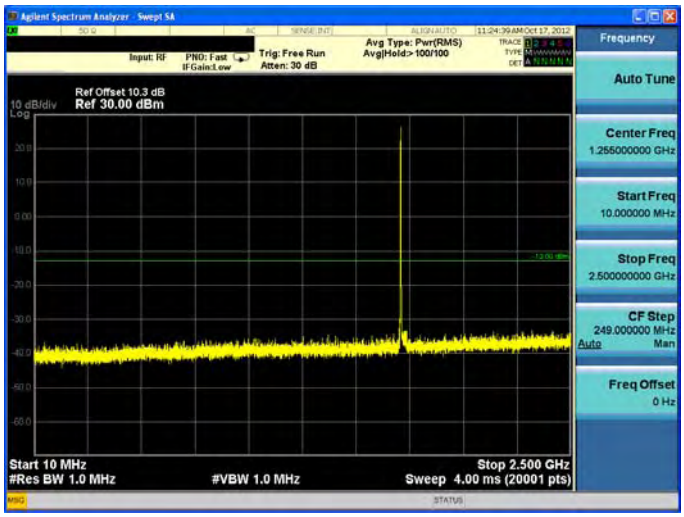
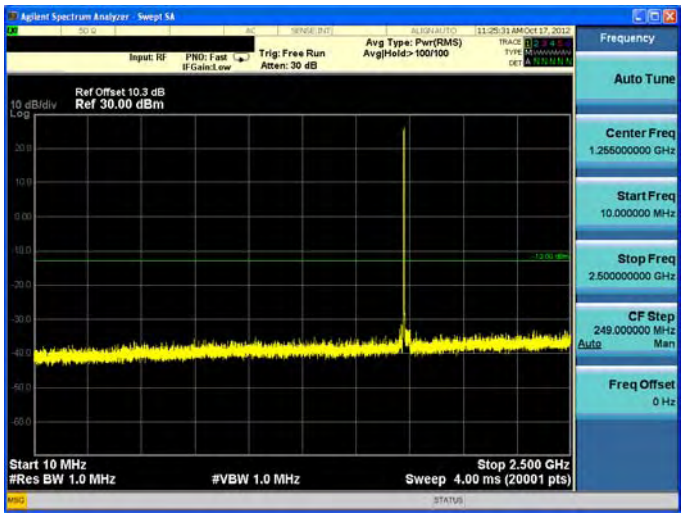
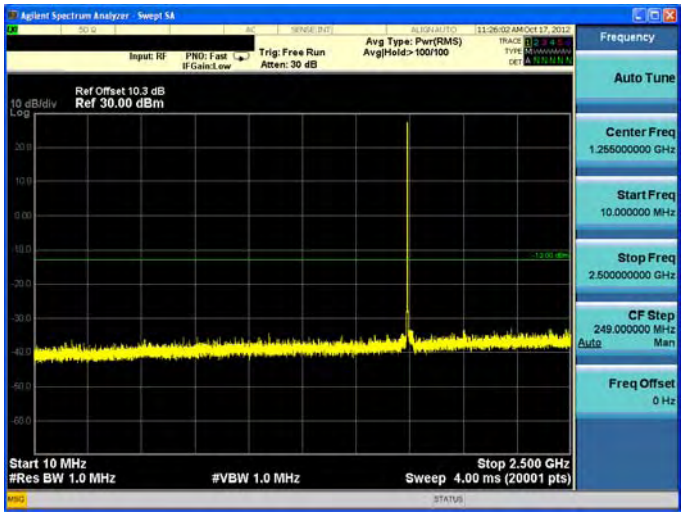
LTE Band 2 (Channel Bandwidth: 20MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

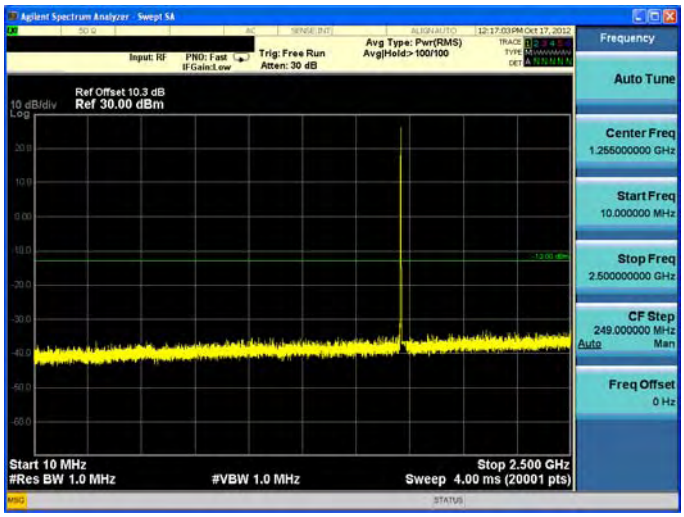
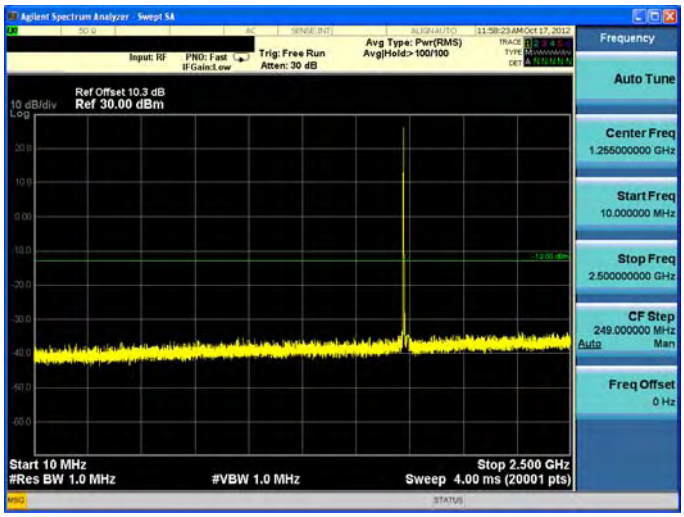
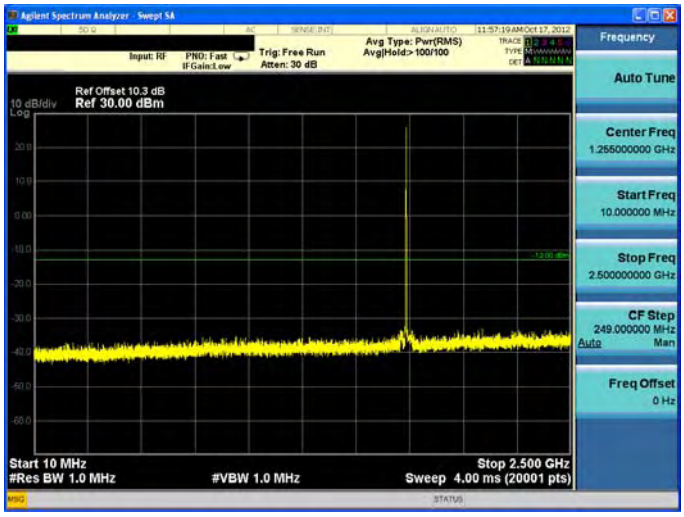
LTE Band 4 (Channel Bandwidth: 1.4MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

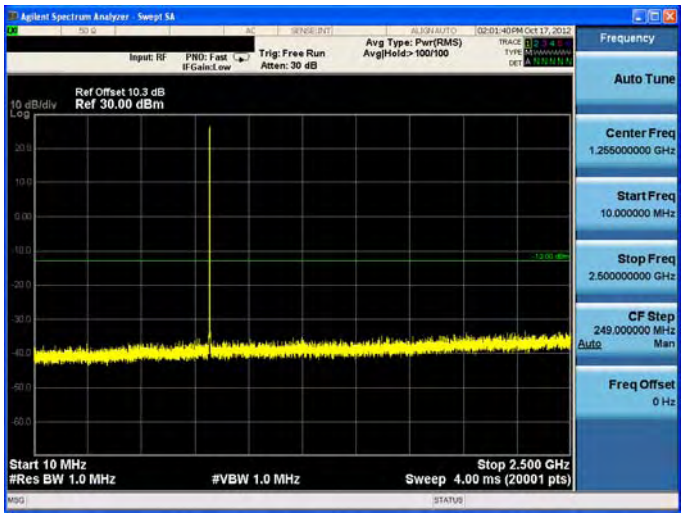
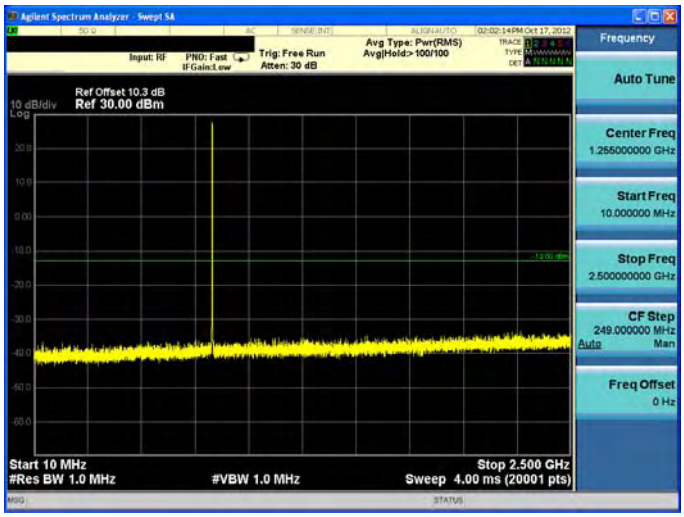
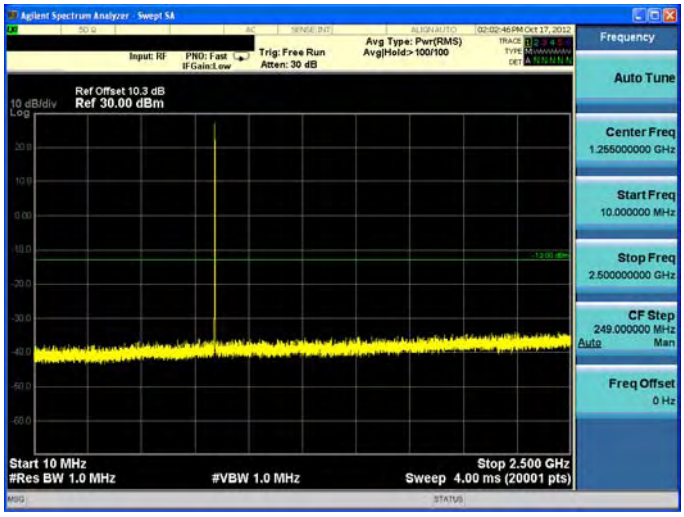
LTE Band 4 (Channel Bandwidth: 3MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

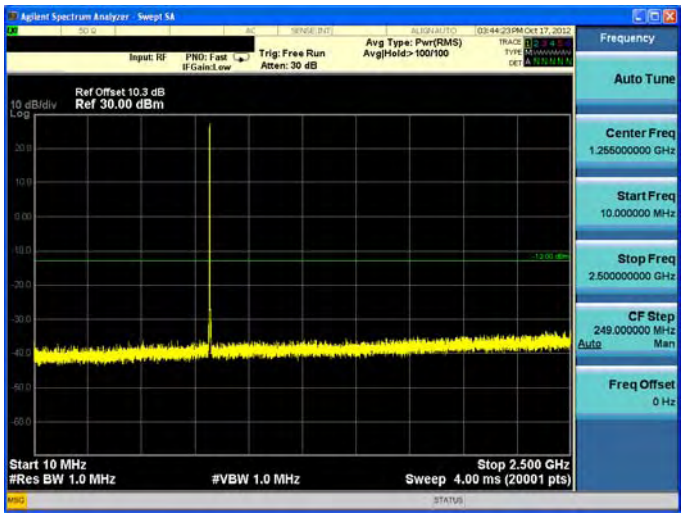
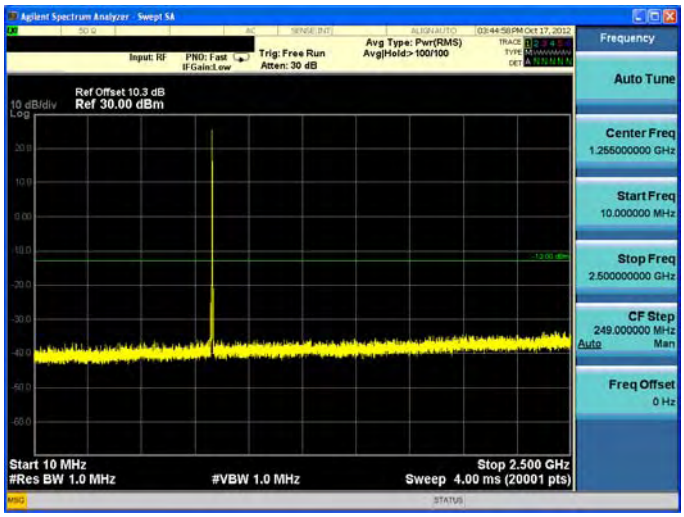
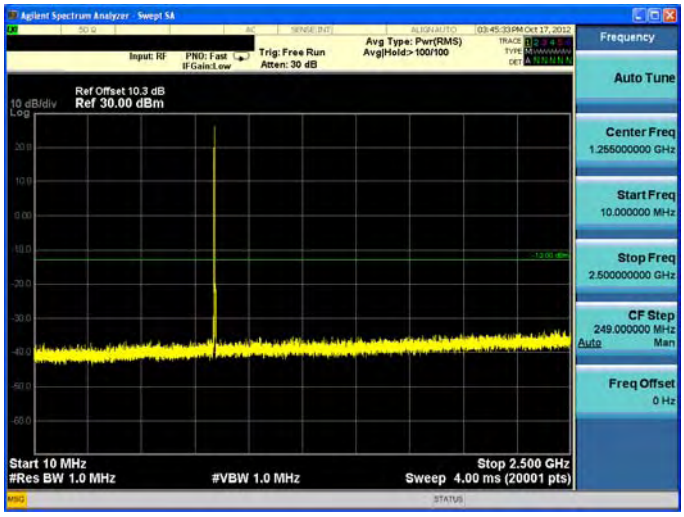
LTE Band 4 (Channel Bandwidth: 5MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

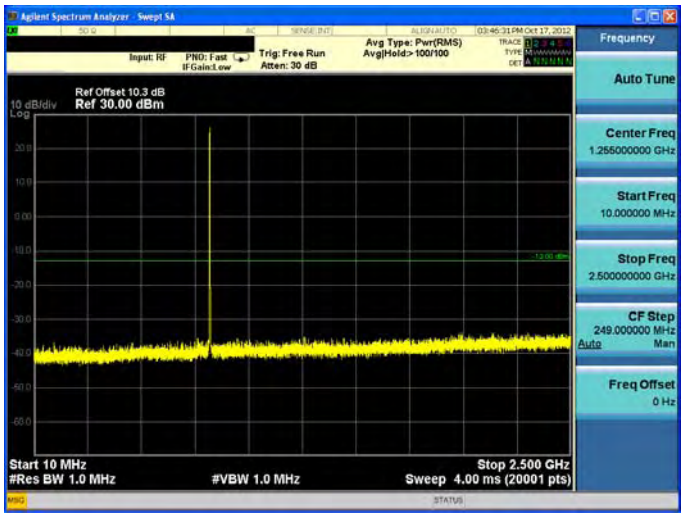
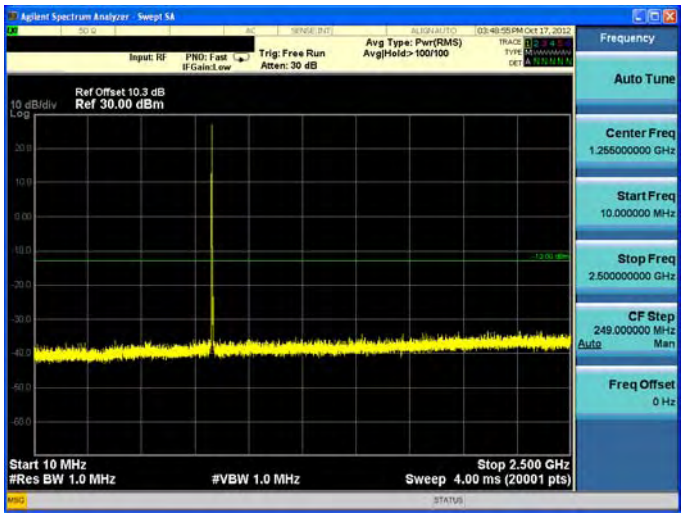
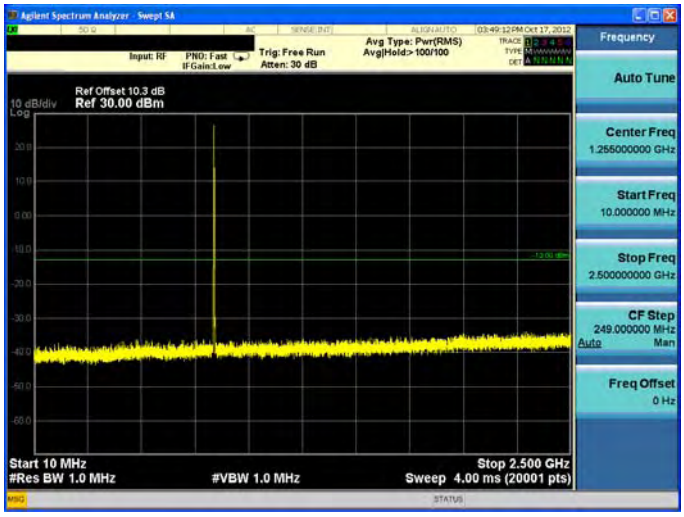
LTE Band 4 (Channel Bandwidth: 10MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

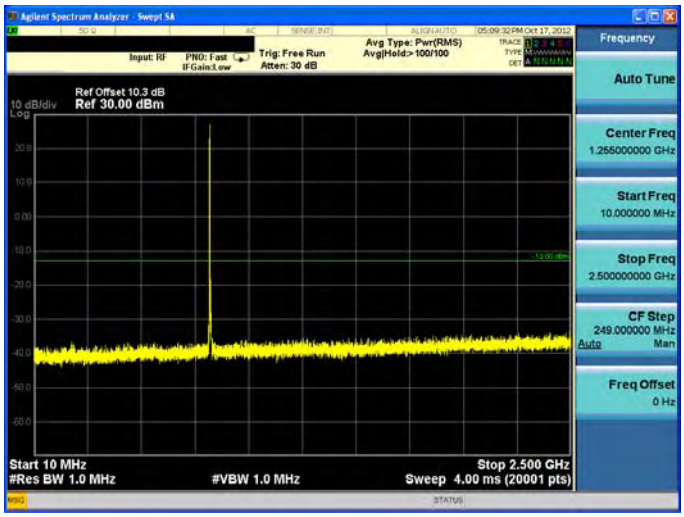
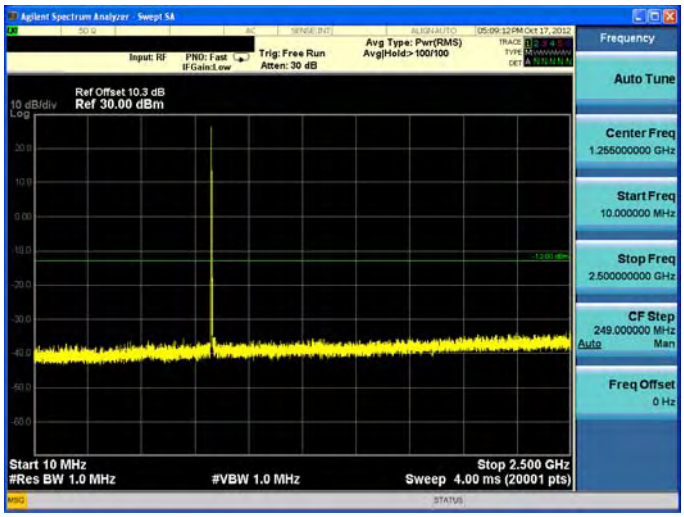
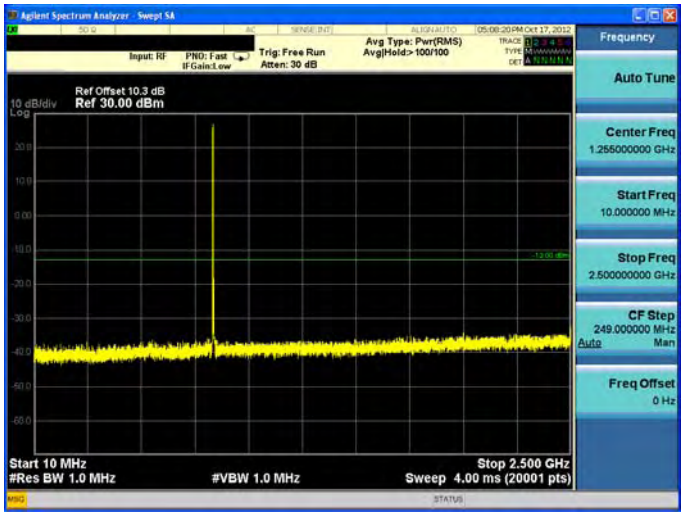
LTE Band 4 (Channel Bandwidth: 15MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

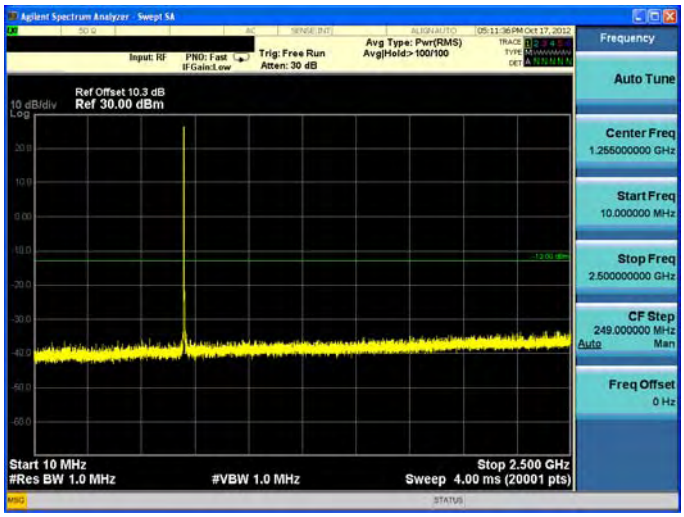
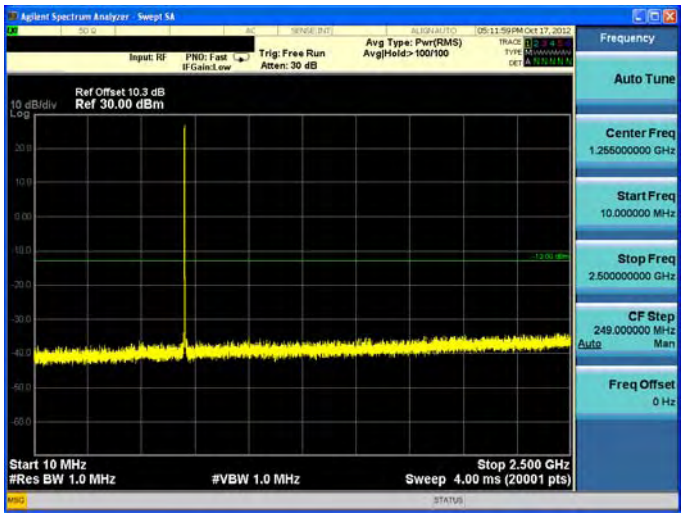
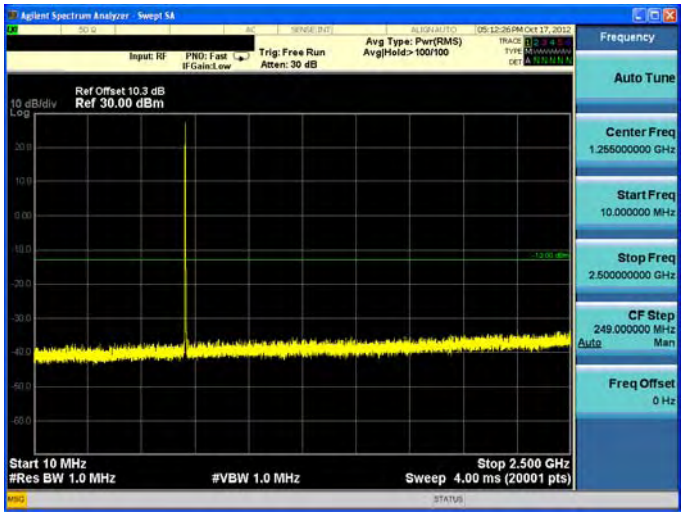
LTE Band 4 (Channel Bandwidth: 20MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

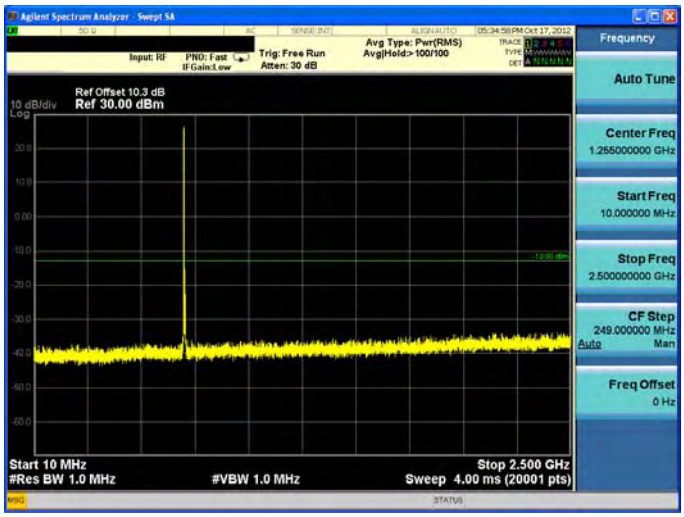
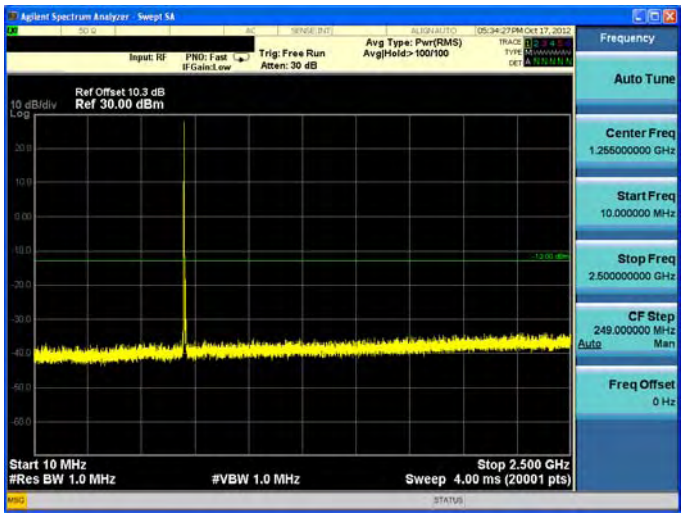
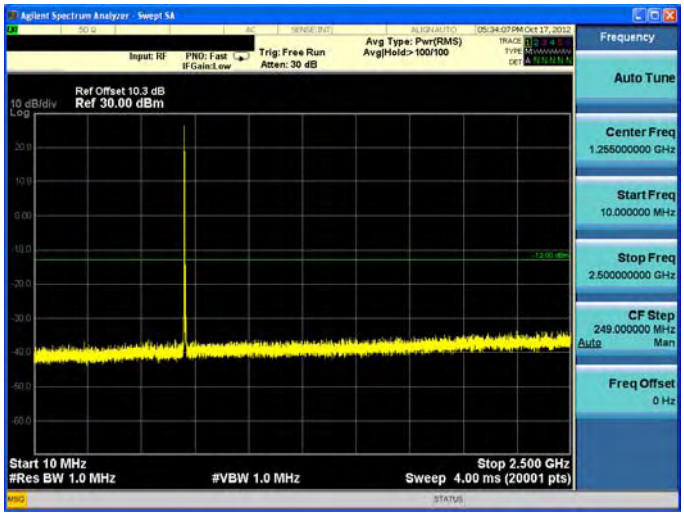
LTE Band 5 (Channel Bandwidth: 1.4MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

LTE Band 5 (Channel Bandwidth: 3MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

LTE Band 5 (Channel Bandwidth: 5MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

LTE Band 5 (Channel Bandwidth: 10MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

LTE Band 17 (Channel Bandwidth: 5MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

LTE Band 17 (Channel Bandwidth: 10MHz) _ QPSK	
Low CH	
Middle CH	
High CH	

9 Radiated Emission Test

9.1. Limit

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 $\log_{10}$(P) dB. The limit of emission equal to -13dBm

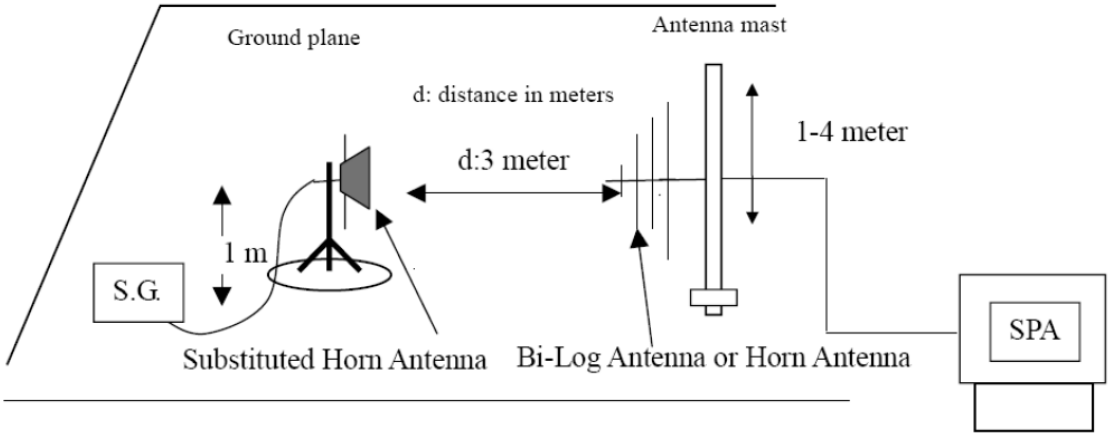
9.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/16/2012	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/16/2012	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/22/2012	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/22/2012	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	06/29/2012	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/15/2012	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/21/2012	(1)
Test Site	ATL	TE01	888001	12/20/2011	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

9.3. Setup



9.4. Test Procedure

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the receiving antenna, which was mounted on antenna tower and its position at 0.8 m above the ground.
c. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading and recorded the value.
d. Repeat step a ~ c for horizontal polarization.

Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

9.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is ± 3.072 dB.

9.6. Test Result

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	1.4MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1850.7 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	129.0000	-72.99	-4.86	-77.85	-13.00	-64.85	peak	H
2	203.0000	-81.05	2.26	-78.79	-13.00	-65.79	peak	H
3	326.5000	-80.68	-0.80	-81.48	-13.00	-68.48	peak	H
4	454.5000	-80.34	4.43	-75.91	-13.00	-62.91	peak	H
5	580.0000	-79.75	7.60	-72.15	-13.00	-59.15	peak	H
6	748.0000	-79.77	8.56	-71.21	-13.00	-58.21	peak	H
7	2740.000	-69.52	13.03	-56.49	-13.00	-43.49	peak	H
8	3701.400	-55.08	15.88	-39.20	-13.00	-26.20	peak	H
9	5552.100	-58.33	21.83	-36.50	-13.00	-23.50	peak	H
1	129.0000	-72.19	13.37	-58.82	-13.00	-45.82	peak	V
2	204.0000	-80.57	9.66	-70.91	-13.00	-57.91	peak	V
3	367.0000	-80.81	2.15	-78.66	-13.00	-65.66	peak	V
4	485.0000	-79.37	2.47	-76.90	-13.00	-63.90	peak	V
5	627.0000	-79.97	8.79	-71.18	-13.00	-58.18	peak	V
6	758.5000	-80.06	10.92	-69.14	-13.00	-56.14	peak	V
7	2656.000	-67.17	13.60	-53.57	-13.00	-40.57	peak	V
8	3701.400	-54.94	19.94	-35.00	-13.00	-22.00	peak	V
9	5552.100	-68.19	23.42	-44.77	-13.00	-31.77	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	1.4MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	92.5000	-73.59	-0.43	-74.02	-13.00	-61.02	peak	H
2	201.0000	-81.02	2.73	-78.29	-13.00	-65.29	peak	H
3	352.5000	-80.51	-0.17	-80.68	-13.00	-67.68	peak	H
4	489.5000	-79.54	6.31	-73.23	-13.00	-60.23	peak	H
5	622.5000	-79.32	7.59	-71.73	-13.00	-58.73	peak	H
6	791.0000	-80.16	10.76	-69.40	-13.00	-56.40	peak	H
7	2764.000	-68.45	13.11	-55.34	-13.00	-42.34	peak	H
8	3760.000	-56.75	15.99	-40.76	-13.00	-27.76	peak	H
9	5640.000	-50.44	22.07	-28.37	-13.00	-15.37	peak	H
1	129.0000	-73.11	13.37	-59.74	-13.00	-46.74	peak	V
2	208.0000	-80.21	9.19	-71.02	-13.00	-58.02	peak	V
3	350.5000	-80.87	1.85	-79.02	-13.00	-66.02	peak	V
4	474.0000	-78.82	2.18	-76.64	-13.00	-63.64	peak	V
5	626.5000	-80.14	8.80	-71.34	-13.00	-58.34	peak	V
6	767.0000	-79.36	11.07	-68.29	-13.00	-55.29	peak	V
7	2812.000	-67.78	14.89	-52.89	-13.00	-39.89	peak	V
8	3760.000	-61.39	20.08	-41.31	-13.00	-28.31	peak	V
9	5640.000	-61.39	23.29	-38.10	-13.00	-25.10	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	1.4MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1909.3 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.5000	-74.94	1.30	-73.64	-13.00	-60.64	peak	H
2	300.5000	-81.03	-2.32	-83.35	-13.00	-70.35	peak	H
3	435.5000	-80.46	3.79	-76.67	-13.00	-63.67	peak	H
4	540.5000	-79.68	8.25	-71.43	-13.00	-58.43	peak	H
5	685.5000	-80.18	7.00	-73.18	-13.00	-60.18	peak	H
6	789.0000	-80.44	10.67	-69.77	-13.00	-56.77	peak	H
7	2848.000	-70.25	13.39	-56.86	-13.00	-43.86	peak	H
8	3818.600	-51.80	16.10	-35.70	-13.00	-22.70	peak	H
9	5727.900	-53.70	22.31	-31.39	-13.00	-18.39	peak	H
1	129.0000	-71.96	13.37	-58.59	-13.00	-45.59	peak	V
2	304.5000	-80.15	2.33	-77.82	-13.00	-64.82	peak	V
3	435.0000	-79.97	1.42	-78.55	-13.00	-65.55	peak	V
4	553.0000	-79.28	4.33	-74.95	-13.00	-61.95	peak	V
5	660.0000	-79.13	9.39	-69.74	-13.00	-56.74	peak	V
6	786.5000	-79.96	11.47	-68.49	-13.00	-55.49	peak	V
7	2752.000	-69.58	14.40	-55.18	-13.00	-42.18	peak	V
8	3818.600	-57.56	20.20	-37.36	-13.00	-24.36	peak	V
9	5727.900	-57.10	23.16	-33.94	-13.00	-20.94	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	3MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1851.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.5000	-73.43	0.28	-73.15	-13.00	-60.15	peak	H
2	301.5000	-80.46	-2.25	-82.71	-13.00	-69.71	peak	H
3	418.5000	-79.65	3.35	-76.30	-13.00	-63.30	peak	H
4	527.0000	-78.28	7.87	-70.41	-13.00	-57.41	peak	H
5	644.5000	-79.76	6.90	-72.86	-13.00	-59.86	peak	H
6	831.0000	-80.31	12.03	-68.28	-13.00	-55.28	peak	H
7	2788.000	-69.12	13.19	-55.93	-13.00	-42.93	peak	H
8	3703.000	-54.39	15.88	-38.51	-13.00	-25.51	peak	H
9	5554.500	-58.52	21.84	-36.68	-13.00	-23.68	peak	H
1	129.0000	-71.16	13.37	-57.79	-13.00	-44.79	peak	V
2	290.5000	-79.77	1.85	-77.92	-13.00	-64.92	peak	V
3	423.0000	-79.11	1.35	-77.76	-13.00	-64.76	peak	V
4	570.0000	-77.89	5.14	-72.75	-13.00	-59.75	peak	V
5	708.5000	-79.87	10.47	-69.40	-13.00	-56.40	peak	V
6	848.0000	-80.11	11.46	-68.65	-13.00	-55.65	peak	V
7	2692.000	-68.28	13.90	-54.38	-13.00	-41.38	peak	V
8	3703.000	-56.47	19.95	-36.52	-13.00	-23.52	peak	V
9	5554.500	-61.65	23.41	-38.24	-13.00	-25.24	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	3MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.0000	-75.53	1.13	-74.40	-13.00	-61.40	peak	H
2	320.0000	-80.78	-0.92	-81.70	-13.00	-68.70	peak	H
3	469.5000	-79.38	5.15	-74.23	-13.00	-61.23	peak	H
4	612.5000	-79.88	7.80	-72.08	-13.00	-59.08	peak	H
5	755.5000	-79.54	8.88	-70.66	-13.00	-57.66	peak	H
6	896.5000	-80.92	13.92	-67.00	-13.00	-54.00	peak	H
7	2812.000	-69.81	13.29	-56.52	-13.00	-43.52	peak	H
8	3760.000	-56.66	15.99	-40.67	-13.00	-27.67	peak	H
9	5640.000	-57.21	22.07	-35.14	-13.00	-22.14	peak	H
1	129.0000	-72.40	13.37	-59.03	-13.00	-46.03	peak	V
2	202.5000	-81.80	9.84	-71.96	-13.00	-58.96	peak	V
3	369.0000	-79.04	2.07	-76.97	-13.00	-63.97	peak	V
4	523.0000	-78.87	3.28	-75.59	-13.00	-62.59	peak	V
5	710.0000	-80.34	10.52	-69.82	-13.00	-56.82	peak	V
6	855.0000	-80.35	11.54	-68.81	-13.00	-55.81	peak	V
7	2848.000	-69.51	15.17	-54.34	-13.00	-41.34	peak	V
8	3760.000	-61.78	20.08	-41.70	-13.00	-28.70	peak	V
9	5640.000	-58.44	23.29	-35.15	-13.00	-22.15	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	3MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1908.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.5000	-75.34	1.30	-74.04	-13.00	-61.04	peak	H
2	323.0000	-80.88	-0.87	-81.75	-13.00	-68.75	peak	H
3	482.5000	-79.61	5.88	-73.73	-13.00	-60.73	peak	H
4	602.0000	-79.36	7.92	-71.44	-13.00	-58.44	peak	H
5	761.5000	-80.70	9.18	-71.52	-13.00	-58.52	peak	H
6	923.0000	-81.02	14.76	-66.26	-13.00	-53.26	peak	H
7	2752.000	-69.13	13.07	-56.06	-13.00	-43.06	peak	H
8	3817.000	-52.00	16.10	-35.90	-13.00	-22.90	peak	H
9	5725.500	-52.05	22.31	-29.74	-13.00	-16.74	peak	H
1	129.0000	-72.62	13.37	-59.25	-13.00	-46.25	peak	V
2	203.0000	-81.75	9.79	-71.96	-13.00	-58.96	peak	V
3	359.5000	-81.36	2.40	-78.96	-13.00	-65.96	peak	V
4	505.0000	-79.60	2.84	-76.76	-13.00	-63.76	peak	V
5	681.0000	-79.01	9.58	-69.43	-13.00	-56.43	peak	V
6	859.0000	-80.08	11.60	-68.48	-13.00	-55.48	peak	V
7	2956.000	-69.98	16.05	-53.93	-13.00	-40.93	peak	V
8	3817.000	-59.14	20.19	-38.95	-13.00	-25.95	peak	V
9	5725.500	-55.85	23.16	-32.69	-13.00	-19.69	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	5MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1852.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.0000	-73.94	0.68	-73.26	-13.00	-60.26	peak	H
2	319.0000	-81.15	-0.99	-82.14	-13.00	-69.14	peak	H
3	460.5000	-80.11	4.65	-75.46	-13.00	-62.46	peak	H
4	601.5000	-79.76	7.93	-71.83	-13.00	-58.83	peak	H
5	755.0000	-80.84	8.87	-71.97	-13.00	-58.97	peak	H
6	901.0000	-81.11	14.09	-67.02	-13.00	-54.02	peak	H
7	2608.000	-68.38	12.57	-55.81	-13.00	-42.81	peak	H
8	3705.000	-55.07	15.89	-39.18	-13.00	-26.18	peak	H
9	5557.500	-59.07	21.85	-37.22	-13.00	-24.22	peak	H
1	129.0000	-72.78	13.37	-59.41	-13.00	-46.41	peak	V
2	201.0000	-80.90	10.04	-70.86	-13.00	-57.86	peak	V
3	380.5000	-79.81	1.62	-78.19	-13.00	-65.19	peak	V
4	548.5000	-79.89	4.31	-75.58	-13.00	-62.58	peak	V
5	697.0000	-79.85	10.10	-69.75	-13.00	-56.75	peak	V
6	847.0000	-79.65	11.43	-68.22	-13.00	-55.22	peak	V
7	2608.000	-67.05	13.22	-53.83	-13.00	-40.83	peak	V
8	3705.000	-56.40	19.96	-36.44	-13.00	-23.44	peak	V
9	5557.500	-61.18	23.41	-37.77	-13.00	-24.77	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	5MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.5000	-74.45	1.30	-73.15	-13.00	-60.15	peak	H
2	323.5000	-81.02	-0.86	-81.88	-13.00	-68.88	peak	H
3	490.0000	-79.95	6.36	-73.59	-13.00	-60.59	peak	H
4	616.0000	-80.02	7.75	-72.27	-13.00	-59.27	peak	H
5	767.0000	-80.79	9.47	-71.32	-13.00	-58.32	peak	H
6	901.5000	-81.21	14.11	-67.10	-13.00	-54.10	peak	H
7	2668.000	-67.51	12.78	-54.73	-13.00	-41.73	peak	H
8	3760.000	-57.91	15.99	-41.92	-13.00	-28.92	peak	H
9	5640.000	-51.38	22.07	-29.31	-13.00	-16.31	peak	H
1	129.0000	-72.69	13.37	-59.32	-13.00	-46.32	peak	V
2	205.0000	-81.31	9.55	-71.76	-13.00	-58.76	peak	V
3	347.5000	-80.05	1.66	-78.39	-13.00	-65.39	peak	V
4	529.5000	-79.61	3.66	-75.95	-13.00	-62.95	peak	V
5	714.0000	-80.24	10.66	-69.58	-13.00	-56.58	peak	V
6	876.5000	-79.57	11.02	-68.55	-13.00	-55.55	peak	V
7	2692.000	-69.14	13.90	-55.24	-13.00	-42.24	peak	V
8	3760.000	-59.86	20.08	-39.78	-13.00	-26.78	peak	V
9	5640.000	-58.70	23.29	-35.41	-13.00	-22.41	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	5MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1907.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	158.0000	-74.43	0.82	-73.61	-13.00	-60.61	peak	H
2	319.0000	-79.17	-0.99	-80.16	-13.00	-67.16	peak	H
3	452.0000	-80.25	4.33	-75.92	-13.00	-62.92	peak	H
4	600.0000	-79.64	7.94	-71.70	-13.00	-58.70	peak	H
5	769.0000	-80.80	9.59	-71.21	-13.00	-58.21	peak	H
6	910.0000	-81.58	14.40	-67.18	-13.00	-54.18	peak	H
7	2620.000	-66.97	12.61	-54.36	-13.00	-41.36	peak	H
8	3815.000	-52.05	16.10	-35.95	-13.00	-22.95	peak	H
9	5722.500	-50.49	22.30	-28.19	-13.00	-15.19	peak	H
1	129.0000	-72.92	13.37	-59.55	-13.00	-46.55	peak	V
2	200.0000	-81.10	10.15	-70.95	-13.00	-57.95	peak	V
3	379.0000	-77.92	1.67	-76.25	-13.00	-63.25	peak	V
4	495.5000	-78.83	2.66	-76.17	-13.00	-63.17	peak	V
5	635.5000	-79.87	8.68	-71.19	-13.00	-58.19	peak	V
6	824.0000	-79.47	11.29	-68.18	-13.00	-55.18	peak	V
7	2800.000	-68.13	14.79	-53.34	-13.00	-40.34	peak	V
8	3815.000	-57.84	20.19	-37.65	-13.00	-24.65	peak	V
9	5722.500	-55.71	23.17	-32.54	-13.00	-19.54	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	10MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1855.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	162.5000	-74.73	-0.49	-75.22	-13.00	-62.22	peak	H
2	344.5000	-80.87	-0.43	-81.30	-13.00	-68.30	peak	H
3	492.5000	-79.08	6.51	-72.57	-13.00	-59.57	peak	H
4	632.0000	-80.29	7.16	-73.13	-13.00	-60.13	peak	H
5	778.0000	-80.30	10.08	-70.22	-13.00	-57.22	peak	H
6	919.0000	-81.54	14.71	-66.83	-13.00	-53.83	peak	H
7	2764.000	-68.47	13.11	-55.36	-13.00	-42.36	peak	H
8	3710.000	-54.88	15.90	-38.98	-13.00	-25.98	peak	H
9	5565.000	-62.66	21.86	-40.80	-13.00	-27.80	peak	H
1	129.0000	-74.00	13.37	-60.63	-13.00	-47.63	peak	V
2	200.5000	-80.76	10.08	-70.68	-13.00	-57.68	peak	V
3	376.5000	-80.21	1.78	-78.43	-13.00	-65.43	peak	V
4	480.0000	-78.35	2.39	-75.96	-13.00	-62.96	peak	V
5	684.0000	-78.80	9.68	-69.12	-13.00	-56.12	peak	V
6	809.0000	-80.45	11.61	-68.84	-13.00	-55.84	peak	V
7	2836.000	-68.92	15.08	-53.84	-13.00	-40.84	peak	V
8	3710.000	-56.44	19.97	-36.47	-13.00	-23.47	peak	V
9	5565.000	-61.68	23.39	-38.29	-13.00	-25.29	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	10MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	162.0000	-74.55	-0.11	-74.66	-13.00	-61.66	peak	H
2	326.5000	-81.09	-0.80	-81.89	-13.00	-68.89	peak	H
3	466.0000	-79.52	4.96	-74.56	-13.00	-61.56	peak	H
4	571.0000	-78.60	7.69	-70.91	-13.00	-57.91	peak	H
5	770.0000	-81.05	9.64	-71.41	-13.00	-58.41	peak	H
6	917.5000	-79.64	14.65	-64.99	-13.00	-51.99	peak	H
7	2752.000	-67.87	13.07	-54.80	-13.00	-41.80	peak	H
8	3760.000	-59.08	15.99	-43.09	-13.00	-30.09	peak	H
9	5640.000	-56.43	22.07	-34.36	-13.00	-21.36	peak	H
1	129.0000	-73.86	13.37	-60.49	-13.00	-47.49	peak	V
2	201.0000	-82.03	10.04	-71.99	-13.00	-58.99	peak	V
3	304.0000	-80.31	2.37	-77.94	-13.00	-64.94	peak	V
4	464.5000	-79.96	1.86	-78.10	-13.00	-65.10	peak	V
5	666.0000	-80.19	9.45	-70.74	-13.00	-57.74	peak	V
6	813.5000	-79.77	11.47	-68.30	-13.00	-55.30	peak	V
7	2800.000	-69.40	14.79	-54.61	-13.00	-41.61	peak	V
8	3760.000	-61.69	20.08	-41.61	-13.00	-28.61	peak	V
9	5640.000	-58.01	23.29	-34.72	-13.00	-21.72	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	10MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1905.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.5000	-75.63	0.28	-75.35	-13.00	-62.35	peak	H
2	316.5000	-79.93	-1.18	-81.11	-13.00	-68.11	peak	H
3	484.5000	-79.89	6.01	-73.88	-13.00	-60.88	peak	H
4	622.0000	-80.24	7.61	-72.63	-13.00	-59.63	peak	H
5	780.0000	-78.98	10.19	-68.79	-13.00	-55.79	peak	H
6	923.0000	-80.81	14.76	-66.05	-13.00	-53.05	peak	H
7	2692.000	-68.98	12.85	-56.13	-13.00	-43.13	peak	H
8	3810.000	-53.64	16.09	-37.55	-13.00	-24.55	peak	H
9	5715.000	-55.68	22.27	-33.41	-13.00	-20.41	peak	H
1	129.0000	-73.78	13.37	-60.41	-13.00	-47.41	peak	V
2	203.5000	-80.89	9.73	-71.16	-13.00	-58.16	peak	V
3	387.0000	-79.25	1.53	-77.72	-13.00	-64.72	peak	V
4	528.5000	-78.65	3.59	-75.06	-13.00	-62.06	peak	V
5	712.0000	-80.53	10.59	-69.94	-13.00	-56.94	peak	V
6	860.5000	-80.56	11.59	-68.97	-13.00	-55.97	peak	V
7	2644.000	-68.49	13.51	-54.98	-13.00	-41.98	peak	V
8	3810.000	-60.27	20.18	-40.09	-13.00	-27.09	peak	V
9	5715.000	-60.20	23.17	-37.03	-13.00	-24.03	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	15MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1857.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	156.5000	-74.61	0.33	-74.28	-13.00	-61.28	peak	H
2	303.0000	-80.16	-2.15	-82.31	-13.00	-69.31	peak	H
3	481.5000	-80.49	5.83	-74.66	-13.00	-61.66	peak	H
4	589.0000	-79.56	7.76	-71.80	-13.00	-58.80	peak	H
5	760.0000	-80.56	9.09	-71.47	-13.00	-58.47	peak	H
6	928.0000	-79.48	14.79	-64.69	-13.00	-51.69	peak	H
7	2668.000	-67.83	12.78	-55.05	-13.00	-42.05	peak	H
8	3715.000	-61.47	15.91	-45.56	-13.00	-32.56	peak	H
9	5572.500	-60.46	21.88	-38.58	-13.00	-25.58	peak	H
1	129.0000	-73.50	13.37	-60.13	-13.00	-47.13	peak	V
2	204.0000	-80.78	9.66	-71.12	-13.00	-58.12	peak	V
3	431.5000	-80.03	1.41	-78.62	-13.00	-65.62	peak	V
4	589.0000	-80.47	6.62	-73.85	-13.00	-60.85	peak	V
5	717.0000	-79.61	10.76	-68.85	-13.00	-55.85	peak	V
6	855.0000	-80.81	11.54	-69.27	-13.00	-56.27	peak	V
7	2752.000	-69.15	14.40	-54.75	-13.00	-41.75	peak	V
8	3715.000	-61.65	19.98	-41.67	-13.00	-28.67	peak	V
9	5572.500	-62.75	23.38	-39.37	-13.00	-26.37	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	15MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-74.18	1.05	-73.13	-13.00	-60.13	peak	H
2	326.5000	-81.78	-0.80	-82.58	-13.00	-69.58	peak	H
3	452.0000	-79.98	4.33	-75.65	-13.00	-62.65	peak	H
4	567.5000	-79.18	7.73	-71.45	-13.00	-58.45	peak	H
5	755.0000	-79.41	8.87	-70.54	-13.00	-57.54	peak	H
6	929.0000	-80.09	14.79	-65.30	-13.00	-52.30	peak	H
7	2752.000	-68.68	13.07	-55.61	-13.00	-42.61	peak	H
8	3760.000	-65.35	15.99	-49.36	-13.00	-36.36	peak	H
9	5640.000	-68.47	22.07	-46.40	-13.00	-33.40	peak	H
1	129.0000	-72.75	13.37	-59.38	-13.00	-46.38	peak	V
2	206.0000	-79.84	9.44	-70.40	-13.00	-57.40	peak	V
3	373.0000	-80.68	1.91	-78.77	-13.00	-65.77	peak	V
4	542.5000	-80.35	4.28	-76.07	-13.00	-63.07	peak	V
5	701.5000	-79.81	10.24	-69.57	-13.00	-56.57	peak	V
6	876.5000	-80.72	11.02	-69.70	-13.00	-56.70	peak	V
7	2836.000	-69.65	15.08	-54.57	-13.00	-41.57	peak	V
8	4084.000	-70.22	20.86	-49.36	-13.00	-36.36	peak	V
9	5640.000	-68.67	23.29	-45.38	-13.00	-32.38	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	15MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1902.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.5000	-75.27	1.30	-73.97	-13.00	-60.97	peak	H
2	351.5000	-81.42	-0.21	-81.63	-13.00	-68.63	peak	H
3	497.5000	-78.40	6.82	-71.58	-13.00	-58.58	peak	H
4	612.5000	-79.47	7.80	-71.67	-13.00	-58.67	peak	H
5	772.5000	-80.95	9.78	-71.17	-13.00	-58.17	peak	H
6	938.5000	-80.71	14.85	-65.86	-13.00	-52.86	peak	H
7	2572.000	-68.66	12.43	-56.23	-13.00	-43.23	peak	H
8	3805.000	-61.64	16.08	-45.56	-13.00	-32.56	peak	H
9	5707.500	-67.50	22.25	-45.25	-13.00	-32.25	peak	H
1	129.0000	-73.74	13.37	-60.37	-13.00	-47.37	peak	V
2	202.5000	-81.61	9.84	-71.77	-13.00	-58.77	peak	V
3	356.0000	-79.37	2.19	-77.18	-13.00	-64.18	peak	V
4	580.0000	-80.74	5.92	-74.82	-13.00	-61.82	peak	V
5	721.5000	-79.59	10.83	-68.76	-13.00	-55.76	peak	V
6	872.5000	-80.38	11.15	-69.23	-13.00	-56.23	peak	V
7	2716.000	-69.60	14.09	-55.51	-13.00	-42.51	peak	V
8	3805.000	-67.01	20.17	-46.84	-13.00	-33.84	peak	V
9	5707.500	-69.61	23.18	-46.43	-13.00	-33.43	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	20MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1860.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.0000	-73.54	0.68	-72.86	-13.00	-59.86	peak	H
2	335.0000	-79.99	-0.65	-80.64	-13.00	-67.64	peak	H
3	519.0000	-80.13	7.62	-72.51	-13.00	-59.51	peak	H
4	664.0000	-80.26	7.13	-73.13	-13.00	-60.13	peak	H
5	788.5000	-79.60	10.65	-68.95	-13.00	-55.95	peak	H
6	919.5000	-80.44	14.73	-65.71	-13.00	-52.71	peak	H
7	2224.000	-66.09	11.29	-54.80	-13.00	-41.80	peak	H
8	3720.000	-64.65	15.91	-48.74	-13.00	-35.74	peak	H
9	5580.000	-70.17	21.91	-48.26	-13.00	-35.26	peak	H
1	129.0000	-73.26	13.37	-59.89	-13.00	-46.89	peak	V
2	201.5000	-81.44	9.97	-71.47	-13.00	-58.47	peak	V
3	413.5000	-79.64	1.34	-78.30	-13.00	-65.30	peak	V
4	591.0000	-80.22	6.75	-73.47	-13.00	-60.47	peak	V
5	722.5000	-80.66	10.81	-69.85	-13.00	-56.85	peak	V
6	857.5000	-79.93	11.57	-68.36	-13.00	-55.36	peak	V
7	2752.000	-68.74	14.40	-54.34	-13.00	-41.34	peak	V
8	3720.000	-66.72	19.98	-46.74	-13.00	-33.74	peak	V
9	5580.000	-70.27	23.37	-46.90	-13.00	-33.90	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	20MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.5000	-74.11	0.28	-73.83	-13.00	-60.83	peak	H
2	320.0000	-81.30	-0.92	-82.22	-13.00	-69.22	peak	H
3	475.0000	-80.42	5.45	-74.97	-13.00	-61.97	peak	H
4	635.5000	-79.02	7.01	-72.01	-13.00	-59.01	peak	H
5	773.0000	-79.88	9.81	-70.07	-13.00	-57.07	peak	H
6	914.0000	-80.49	14.53	-65.96	-13.00	-52.96	peak	H
7	2224.000	-66.89	11.29	-55.60	-13.00	-42.60	peak	H
8	3760.000	-66.46	15.99	-50.47	-13.00	-37.47	peak	H
9	5860.000	-72.89	22.67	-50.22	-13.00	-37.22	peak	H
1	129.0000	-73.85	13.37	-60.48	-13.00	-47.48	peak	V
2	200.5000	-81.04	10.08	-70.96	-13.00	-57.96	peak	V
3	372.5000	-79.86	1.94	-77.92	-13.00	-64.92	peak	V
4	571.0000	-79.49	5.22	-74.27	-13.00	-61.27	peak	V
5	719.0000	-80.01	10.83	-69.18	-13.00	-56.18	peak	V
6	834.0000	-80.18	11.33	-68.85	-13.00	-55.85	peak	V
7	3088.000	-69.15	16.97	-52.18	-13.00	-39.18	peak	V
8	5476.000	-72.96	23.49	-49.47	-13.00	-36.47	peak	V
9	7504.000	-73.71	26.50	-47.21	-13.00	-34.21	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 2	Date:	10/16/2012
Channel Bandwidth:	20MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1900.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.5000	-72.38	1.30	-71.08	-13.00	-58.08	peak	H
2	341.5000	-80.66	-0.51	-81.17	-13.00	-68.17	peak	H
3	465.5000	-79.16	4.93	-74.23	-13.00	-61.23	peak	H
4	597.5000	-78.49	7.90	-70.59	-13.00	-57.59	peak	H
5	764.0000	-80.70	9.32	-71.38	-13.00	-58.38	peak	H
6	908.5000	-79.86	14.35	-65.51	-13.00	-52.51	peak	H
7	2692.000	-68.34	12.85	-55.49	-13.00	-42.49	peak	H
8	3800.000	-64.14	16.07	-48.07	-13.00	-35.07	peak	H
9	5700.000	-67.68	22.23	-45.45	-13.00	-32.45	peak	H
1	129.0000	-73.77	13.37	-60.40	-13.00	-47.40	peak	V
2	201.5000	-81.13	9.97	-71.16	-13.00	-58.16	peak	V
3	365.0000	-80.30	2.23	-78.07	-13.00	-65.07	peak	V
4	527.0000	-79.04	3.52	-75.52	-13.00	-62.52	peak	V
5	694.0000	-79.32	10.00	-69.32	-13.00	-56.32	peak	V
6	830.5000	-80.18	11.32	-68.86	-13.00	-55.86	peak	V
7	2620.000	-67.33	13.32	-54.01	-13.00	-41.01	peak	V
8	5092.000	-71.62	23.46	-48.16	-13.00	-35.16	peak	V
9	7492.000	-72.87	26.48	-46.39	-13.00	-33.39	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	1.4MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1710.7 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-65.47	1.05	-64.42	-13.00	-51.42	peak	H
2	294.5000	-72.54	-2.90	-75.44	-13.00	-62.44	peak	H
3	434.0000	-79.18	3.76	-75.42	-13.00	-62.42	peak	H
4	595.0000	-79.22	7.86	-71.36	-13.00	-58.36	peak	H
5	721.5000	-55.88	7.54	-48.34	-13.00	-35.34	peak	H
6	868.0000	-80.61	13.10	-67.51	-13.00	-54.51	peak	H
7	2752.000	-69.33	13.07	-56.26	-13.00	-43.26	peak	H
8	3421.000	-62.16	15.24	-46.92	-13.00	-33.92	peak	H
9	5132.100	-65.76	20.52	-45.24	-13.00	-32.24	peak	H
1	134.0000	-69.51	12.20	-57.31	-13.00	-44.31	peak	V
2	205.5000	-73.96	9.48	-64.48	-13.00	-51.48	peak	V
3	294.5000	-73.54	2.22	-71.32	-13.00	-58.32	peak	V
4	440.0000	-78.44	1.45	-76.99	-13.00	-63.99	peak	V
5	564.5000	-78.83	4.72	-74.11	-13.00	-61.11	peak	V
6	727.0000	-64.76	10.72	-54.04	-13.00	-41.04	peak	V
7	2596.000	-69.12	13.10	-56.02	-13.00	-43.02	peak	V
8	3421.000	-62.78	19.02	-43.76	-13.00	-30.76	peak	V
9	6532.000	-72.49	24.94	-47.55	-13.00	-34.55	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	1.4MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.5000	-67.33	0.28	-67.05	-13.00	-54.05	peak	H
2	294.0000	-72.87	-2.95	-75.82	-13.00	-62.82	peak	H
3	412.5000	-77.83	3.10	-74.73	-13.00	-61.73	peak	H
4	598.0000	-78.90	7.90	-71.00	-13.00	-58.00	peak	H
5	727.5000	-63.07	7.76	-55.31	-13.00	-42.31	peak	H
6	864.0000	-80.47	13.05	-67.42	-13.00	-54.42	peak	H
7	2572.000	-68.28	12.43	-55.85	-13.00	-42.85	peak	H
8	3465.000	-59.61	15.39	-44.22	-13.00	-31.22	peak	H
9	5716.000	-72.85	22.27	-50.58	-13.00	-37.58	peak	H
1	130.5000	-70.65	14.09	-56.56	-13.00	-43.56	peak	V
2	294.5000	-72.42	2.22	-70.20	-13.00	-57.20	peak	V
3	446.0000	-79.50	1.52	-77.98	-13.00	-64.98	peak	V
4	613.5000	-78.50	8.42	-70.08	-13.00	-57.08	peak	V
5	728.0000	-64.35	10.72	-53.63	-13.00	-40.63	peak	V
6	824.0000	-78.02	11.29	-66.73	-13.00	-53.73	peak	V
7	2704.000	-69.78	14.00	-55.78	-13.00	-42.78	peak	V
8	3465.000	-55.63	19.30	-36.33	-13.00	-23.33	peak	V
9	5536.000	-72.71	23.44	-49.27	-13.00	-36.27	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	1.4MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1754.3 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-69.43	1.05	-68.38	-13.00	-55.38	peak	H
2	297.5000	-74.05	-2.60	-76.65	-13.00	-63.65	peak	H
3	439.5000	-79.71	3.89	-75.82	-13.00	-62.82	peak	H
4	597.5000	-79.05	7.90	-71.15	-13.00	-58.15	peak	H
5	728.5000	-52.44	7.79	-44.65	-13.00	-31.65	peak	H
6	901.0000	-80.29	14.09	-66.20	-13.00	-53.20	peak	H
7	2620.000	-65.96	12.61	-53.35	-13.00	-40.35	peak	H
8	3508.600	-59.42	15.50	-43.92	-13.00	-30.92	peak	H
9	5262.900	-67.19	20.94	-46.25	-13.00	-33.25	peak	H
1	130.5000	-71.69	14.09	-57.60	-13.00	-44.60	peak	V
2	294.5000	-72.93	2.22	-70.71	-13.00	-57.71	peak	V
3	444.5000	-79.21	1.51	-77.70	-13.00	-64.70	peak	V
4	614.5000	-79.66	8.50	-71.16	-13.00	-58.16	peak	V
5	723.0000	-63.62	10.81	-52.81	-13.00	-39.81	peak	V
6	824.0000	-76.00	11.29	-64.71	-13.00	-51.71	peak	V
7	2596.000	-67.58	13.10	-54.48	-13.00	-41.48	peak	V
8	3508.600	-56.66	19.52	-37.14	-13.00	-24.14	peak	V
9	5536.000	-73.25	23.44	-49.81	-13.00	-36.81	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	3MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1711.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-68.73	1.05	-67.68	-13.00	-54.68	peak	H
2	297.5000	-73.20	-2.60	-75.80	-13.00	-62.80	peak	H
3	459.5000	-80.16	4.60	-75.56	-13.00	-62.56	peak	H
4	592.0000	-78.81	7.81	-71.00	-13.00	-58.00	peak	H
5	728.5000	-50.31	7.79	-42.52	-13.00	-29.52	peak	H
6	864.5000	-79.66	13.07	-66.59	-13.00	-53.59	peak	H
7	2596.000	-68.36	12.51	-55.85	-13.00	-42.85	peak	H
8	3423.000	-65.18	15.26	-49.92	-13.00	-36.92	peak	H
9	5836.000	-72.85	22.60	-50.25	-13.00	-37.25	peak	H
1	131.0000	-70.15	13.83	-56.32	-13.00	-43.32	peak	V
2	294.5000	-74.44	2.22	-72.22	-13.00	-59.22	peak	V
3	436.5000	-78.32	1.43	-76.89	-13.00	-63.89	peak	V
4	617.5000	-79.40	8.71	-70.69	-13.00	-57.69	peak	V
5	729.0000	-64.77	10.69	-54.08	-13.00	-41.08	peak	V
6	824.0000	-77.15	11.29	-65.86	-13.00	-52.86	peak	V
7	2620.000	-66.90	13.32	-53.58	-13.00	-40.58	peak	V
8	3423.000	-63.22	19.04	-44.18	-13.00	-31.18	peak	V
9	5692.000	-71.55	23.21	-48.34	-13.00	-35.34	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	3MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.0000	-72.92	1.45	-71.47	-13.00	-58.47	peak	H
2	293.5000	-78.72	-3.01	-81.73	-13.00	-68.73	peak	H
3	428.0000	-80.29	3.63	-76.66	-13.00	-63.66	peak	H
4	596.5000	-79.38	7.89	-71.49	-13.00	-58.49	peak	H
5	754.5000	-79.36	8.85	-70.51	-13.00	-57.51	peak	H
6	921.5000	-81.78	14.75	-67.03	-13.00	-54.03	peak	H
7	2596.000	-67.93	12.51	-55.42	-13.00	-42.42	peak	H
8	3465.000	-64.33	15.39	-48.94	-13.00	-35.94	peak	H
9	6004.000	-72.72	23.08	-49.64	-13.00	-36.64	peak	H
1	166.5000	-67.57	-3.61	-71.18	-13.00	-58.18	peak	V
2	297.5000	-76.72	-2.60	-79.32	-13.00	-66.32	peak	V
3	452.0000	-80.53	4.33	-76.20	-13.00	-63.20	peak	V
4	604.5000	-79.19	7.89	-71.30	-13.00	-58.30	peak	V
5	722.0000	-60.57	7.56	-53.01	-13.00	-40.01	peak	V
6	903.0000	-81.27	14.16	-67.11	-13.00	-54.11	peak	V
7	2608.000	-67.95	13.22	-54.73	-13.00	-41.73	peak	V
8	3465.000	-60.00	19.30	-40.70	-13.00	-27.70	peak	V
9	5692.000	-72.95	23.21	-49.74	-13.00	-36.74	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	3MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1753.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.0000	-69.93	0.68	-69.25	-13.00	-56.25	peak	H
2	308.0000	-79.69	-1.79	-81.48	-13.00	-68.48	peak	H
3	478.0000	-79.93	5.63	-74.30	-13.00	-61.30	peak	H
4	607.0000	-79.49	7.86	-71.63	-13.00	-58.63	peak	H
5	748.5000	-80.71	8.58	-72.13	-13.00	-59.13	peak	H
6	920.0000	-80.70	14.74	-65.96	-13.00	-52.96	peak	H
7	2260.000	-66.16	11.41	-54.75	-13.00	-41.75	peak	H
8	3507.000	-62.88	15.50	-47.38	-13.00	-34.38	peak	H
9	6016.000	-72.80	23.15	-49.65	-13.00	-36.65	peak	H
1	129.0000	-74.47	13.37	-61.10	-13.00	-48.10	peak	V
2	202.5000	-81.00	9.84	-71.16	-13.00	-58.16	peak	V
3	367.5000	-80.52	2.14	-78.38	-13.00	-65.38	peak	V
4	531.0000	-79.55	3.73	-75.82	-13.00	-62.82	peak	V
5	700.0000	-80.27	10.19	-70.08	-13.00	-57.08	peak	V
6	865.5000	-81.18	11.41	-69.77	-13.00	-56.77	peak	V
7	2668.000	-67.79	13.71	-54.08	-13.00	-41.08	peak	V
8	3507.000	-60.02	19.52	-40.50	-13.00	-27.50	peak	V
9	5572.000	-72.02	23.38	-48.64	-13.00	-35.64	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	5MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1712.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.5000	-70.91	1.30	-69.61	-13.00	-56.61	peak	H
2	296.0000	-78.90	-2.76	-81.66	-13.00	-68.66	peak	H
3	477.0000	-80.32	5.57	-74.75	-13.00	-61.75	peak	H
4	634.5000	-79.95	7.07	-72.88	-13.00	-59.88	peak	H
5	779.0000	-80.52	10.15	-70.37	-13.00	-57.37	peak	H
6	897.5000	-80.93	13.96	-66.97	-13.00	-53.97	peak	H
7	2260.000	-66.42	11.41	-55.01	-13.00	-42.01	peak	H
8	3425.000	-61.70	15.25	-46.45	-13.00	-33.45	peak	H
9	5137.500	-68.54	20.53	-48.01	-13.00	-35.01	peak	H
1	129.0000	-74.39	13.37	-61.02	-13.00	-48.02	peak	V
2	201.0000	-79.87	10.04	-69.83	-13.00	-56.83	peak	V
3	374.0000	-79.90	1.87	-78.03	-13.00	-65.03	peak	V
4	555.0000	-80.29	4.34	-75.95	-13.00	-62.95	peak	V
5	745.0000	-80.44	10.61	-69.83	-13.00	-56.83	peak	V
6	851.5000	-80.88	11.50	-69.38	-13.00	-56.38	peak	V
7	2704.000	-69.49	14.00	-55.49	-13.00	-42.49	peak	V
8	3425.000	-60.05	19.04	-41.01	-13.00	-28.01	peak	V
9	5137.500	-67.27	23.46	-43.81	-13.00	-30.81	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	5MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.0000	-74.07	1.45	-72.62	-13.00	-59.62	peak	H
2	323.5000	-80.32	-0.86	-81.18	-13.00	-68.18	peak	H
3	464.5000	-80.73	4.87	-75.86	-13.00	-62.86	peak	H
4	584.0000	-79.93	7.68	-72.25	-13.00	-59.25	peak	H
5	737.0000	-78.38	8.09	-70.29	-13.00	-57.29	peak	H
6	887.5000	-80.63	13.53	-67.10	-13.00	-54.10	peak	H
7	2572.000	-68.76	12.43	-56.33	-13.00	-43.33	peak	H
8	3465.000	-59.88	15.39	-44.49	-13.00	-31.49	peak	H
9	5884.000	-72.49	22.73	-49.76	-13.00	-36.76	peak	H
1	129.5000	-75.64	13.88	-61.76	-13.00	-48.76	peak	V
2	293.0000	-80.67	2.08	-78.59	-13.00	-65.59	peak	V
3	454.0000	-79.81	1.64	-78.17	-13.00	-65.17	peak	V
4	607.5000	-79.79	7.98	-71.81	-13.00	-58.81	peak	V
5	750.5000	-80.47	10.73	-69.74	-13.00	-56.74	peak	V
6	865.5000	-81.19	11.41	-69.78	-13.00	-56.78	peak	V
7	2620.000	-67.79	13.32	-54.47	-13.00	-41.47	peak	V
8	3465.000	-55.59	19.30	-36.29	-13.00	-23.29	peak	V
9	5644.000	-72.30	23.28	-49.02	-13.00	-36.02	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	5MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1752.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	162.0000	-69.00	-0.11	-69.11	-13.00	-56.11	peak	H
2	334.5000	-80.21	-0.66	-80.87	-13.00	-67.87	peak	H
3	499.5000	-80.30	6.94	-73.36	-13.00	-60.36	peak	H
4	622.5000	-79.57	7.59	-71.98	-13.00	-58.98	peak	H
5	755.5000	-80.01	8.88	-71.13	-13.00	-58.13	peak	H
6	909.5000	-80.76	14.38	-66.38	-13.00	-53.38	peak	H
7	2596.000	-67.98	12.51	-55.47	-13.00	-42.47	peak	H
8	3505.000	-58.62	15.50	-43.12	-13.00	-30.12	peak	H
9	5248.000	-67.38	20.89	-46.49	-13.00	-33.49	peak	H
1	130.5000	-75.82	14.09	-61.73	-13.00	-48.73	peak	V
2	293.0000	-79.08	2.08	-77.00	-13.00	-64.00	peak	V
3	424.0000	-79.67	1.37	-78.30	-13.00	-65.30	peak	V
4	610.0000	-79.49	8.17	-71.32	-13.00	-58.32	peak	V
5	719.5000	-80.97	10.85	-70.12	-13.00	-57.12	peak	V
6	869.5000	-81.41	11.26	-70.15	-13.00	-57.15	peak	V
7	2608.000	-68.22	13.22	-55.00	-13.00	-42.00	peak	V
8	3505.000	-56.48	19.52	-36.96	-13.00	-23.96	peak	V
9	6532.000	-72.08	24.94	-47.14	-13.00	-34.14	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	10MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1715.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-70.85	1.05	-69.80	-13.00	-56.80	peak	H
2	301.0000	-79.31	-2.29	-81.60	-13.00	-68.60	peak	H
3	457.0000	-79.88	4.50	-75.38	-13.00	-62.38	peak	H
4	606.5000	-77.73	7.87	-69.86	-13.00	-56.86	peak	H
5	731.0000	-79.84	7.88	-71.96	-13.00	-58.96	peak	H
6	902.5000	-80.80	14.14	-66.66	-13.00	-53.66	peak	H
7	2188.000	-67.65	11.17	-56.48	-13.00	-43.48	peak	H
8	3280.000	-63.17	14.80	-48.37	-13.00	-35.37	peak	H
9	5968.000	-73.30	22.95	-50.35	-13.00	-37.35	peak	H
1	131.0000	-73.35	13.83	-59.52	-13.00	-46.52	peak	V
2	293.0000	-80.21	2.08	-78.13	-13.00	-65.13	peak	V
3	456.0000	-79.73	1.66	-78.07	-13.00	-65.07	peak	V
4	617.5000	-80.91	8.71	-72.20	-13.00	-59.20	peak	V
5	768.5000	-79.26	11.10	-68.16	-13.00	-55.16	peak	V
6	872.5000	-80.57	11.15	-69.42	-13.00	-56.42	peak	V
7	2572.000	-68.19	12.91	-55.28	-13.00	-42.28	peak	V
8	3430.000	-67.17	19.07	-48.10	-13.00	-35.10	peak	V
9	6640.000	-72.39	25.06	-47.33	-13.00	-34.33	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	10MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.5000	-69.82	0.28	-69.54	-13.00	-56.54	peak	H
2	296.0000	-79.30	-2.76	-82.06	-13.00	-69.06	peak	H
3	450.0000	-80.29	4.27	-76.02	-13.00	-63.02	peak	H
4	589.5000	-79.52	7.77	-71.75	-13.00	-58.75	peak	H
5	773.0000	-80.37	9.81	-70.56	-13.00	-57.56	peak	H
6	899.5000	-81.46	14.04	-67.42	-13.00	-54.42	peak	H
7	2620.000	-66.25	12.61	-53.64	-13.00	-40.64	peak	H
8	3465.000	-59.79	15.39	-44.40	-13.00	-31.40	peak	H
9	5776.000	-72.09	22.45	-49.64	-13.00	-36.64	peak	H
1	130.0000	-74.18	14.37	-59.81	-13.00	-46.81	peak	V
2	299.0000	-79.90	2.63	-77.27	-13.00	-64.27	peak	V
3	440.0000	-79.95	1.45	-78.50	-13.00	-65.50	peak	V
4	616.5000	-79.69	8.64	-71.05	-13.00	-58.05	peak	V
5	783.5000	-80.03	11.38	-68.65	-13.00	-55.65	peak	V
6	938.0000	-80.37	12.65	-67.72	-13.00	-54.72	peak	V
7	2620.000	-68.08	13.32	-54.76	-13.00	-41.76	peak	V
8	3465.000	-57.60	19.30	-38.30	-13.00	-25.30	peak	V
9	5668.000	-72.36	23.24	-49.12	-13.00	-36.12	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	10MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1750.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.5000	-69.64	0.28	-69.36	-13.00	-56.36	peak	H
2	319.5000	-80.93	-0.96	-81.89	-13.00	-68.89	peak	H
3	472.0000	-79.79	5.28	-74.51	-13.00	-61.51	peak	H
4	598.5000	-80.02	7.91	-72.11	-13.00	-59.11	peak	H
5	751.0000	-80.65	8.69	-71.96	-13.00	-58.96	peak	H
6	898.5000	-80.45	13.99	-66.46	-13.00	-53.46	peak	H
7	2560.000	-68.86	12.41	-56.45	-13.00	-43.45	peak	H
8	3500.000	-59.93	15.49	-44.44	-13.00	-31.44	peak	H
9	5250.000	-64.08	20.89	-43.19	-13.00	-30.19	peak	H
1	130.0000	-75.85	14.37	-61.48	-13.00	-48.48	peak	V
2	293.0000	-79.79	2.08	-77.71	-13.00	-64.71	peak	V
3	407.0000	-79.60	1.34	-78.26	-13.00	-65.26	peak	V
4	540.0000	-80.34	4.26	-76.08	-13.00	-63.08	peak	V
5	684.5000	-79.65	9.70	-69.95	-13.00	-56.95	peak	V
6	824.0000	-77.71	11.29	-66.42	-13.00	-53.42	peak	V
7	2656.000	-66.70	13.60	-53.10	-13.00	-40.10	peak	V
8	3500.000	-55.56	19.51	-36.05	-13.00	-23.05	peak	V
9	5884.000	-73.14	22.92	-50.22	-13.00	-37.22	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	15MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1717.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	164.0000	-70.29	-1.68	-71.97	-13.00	-58.97	peak	H
2	321.5000	-80.80	-0.89	-81.69	-13.00	-68.69	peak	H
3	478.0000	-79.45	5.63	-73.82	-13.00	-60.82	peak	H
4	619.0000	-79.39	7.72	-71.67	-13.00	-58.67	peak	H
5	773.0000	-80.12	9.81	-70.31	-13.00	-57.31	peak	H
6	891.0000	-81.30	13.68	-67.62	-13.00	-54.62	peak	H
7	2656.000	-67.63	12.73	-54.90	-13.00	-41.90	peak	H
8	3440.000	-61.49	15.31	-46.18	-13.00	-33.18	peak	H
9	5656.000	-71.61	22.11	-49.50	-13.00	-36.50	peak	H
1	130.5000	-73.52	14.09	-59.43	-13.00	-46.43	peak	V
2	292.5000	-79.70	2.04	-77.66	-13.00	-64.66	peak	V
3	461.5000	-79.90	1.76	-78.14	-13.00	-65.14	peak	V
4	628.5000	-79.78	8.77	-71.01	-13.00	-58.01	peak	V
5	768.5000	-80.69	11.10	-69.59	-13.00	-56.59	peak	V
6	902.5000	-80.29	10.75	-69.54	-13.00	-56.54	peak	V
7	2644.000	-67.32	13.51	-53.81	-13.00	-40.81	peak	V
8	3440.000	-59.42	19.14	-40.28	-13.00	-27.28	peak	V
9	5728.000	-72.25	23.16	-49.09	-13.00	-36.09	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	15MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.0000	-72.74	1.45	-71.29	-13.00	-58.29	peak	H
2	320.0000	-79.96	-0.92	-80.88	-13.00	-67.88	peak	H
3	437.5000	-79.87	3.84	-76.03	-13.00	-63.03	peak	H
4	597.5000	-79.89	7.90	-71.99	-13.00	-58.99	peak	H
5	756.5000	-80.34	8.94	-71.40	-13.00	-58.40	peak	H
6	912.0000	-80.91	14.47	-66.44	-13.00	-53.44	peak	H
7	2212.000	-66.37	11.24	-55.13	-13.00	-42.13	peak	H
8	3465.000	-62.58	15.39	-47.19	-13.00	-34.19	peak	H
9	6160.000	-71.70	24.04	-47.66	-13.00	-34.66	peak	H
1	131.5000	-73.02	13.56	-59.46	-13.00	-46.46	peak	V
2	300.0000	-81.46	2.71	-78.75	-13.00	-65.75	peak	V
3	464.5000	-79.66	1.86	-77.80	-13.00	-64.80	peak	V
4	622.5000	-80.97	8.86	-72.11	-13.00	-59.11	peak	V
5	754.0000	-81.34	10.82	-70.52	-13.00	-57.52	peak	V
6	882.0000	-80.65	10.86	-69.79	-13.00	-56.79	peak	V
7	2704.000	-67.76	14.00	-53.76	-13.00	-40.76	peak	V
8	3465.000	-59.77	19.30	-40.47	-13.00	-27.47	peak	V
9	5656.000	-71.33	23.26	-48.07	-13.00	-35.07	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	15MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1747.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.0000	-74.93	1.45	-73.48	-13.00	-60.48	peak	H
2	314.0000	-80.24	-1.36	-81.60	-13.00	-68.60	peak	H
3	468.5000	-80.61	5.09	-75.52	-13.00	-62.52	peak	H
4	573.5000	-78.44	7.66	-70.78	-13.00	-57.78	peak	H
5	750.0000	-80.95	8.65	-72.30	-13.00	-59.30	peak	H
6	904.5000	-81.41	14.21	-67.20	-13.00	-54.20	peak	H
7	2656.000	-66.96	12.73	-54.23	-13.00	-41.23	peak	H
8	3490.000	-58.64	15.46	-43.18	-13.00	-30.18	peak	H
9	5800.000	-70.28	22.51	-47.77	-13.00	-34.77	peak	H
1	132.0000	-73.70	13.29	-60.41	-13.00	-47.41	peak	V
2	292.5000	-80.11	2.04	-78.07	-13.00	-65.07	peak	V
3	453.0000	-80.06	1.61	-78.45	-13.00	-65.45	peak	V
4	621.5000	-80.03	8.88	-71.15	-13.00	-58.15	peak	V
5	750.0000	-80.23	10.72	-69.51	-13.00	-56.51	peak	V
6	908.0000	-80.60	11.10	-69.50	-13.00	-56.50	peak	V
7	2644.000	-67.74	13.51	-54.23	-13.00	-41.23	peak	V
8	3490.000	-56.68	19.45	-37.23	-13.00	-24.23	peak	V
9	5644.000	-71.58	23.28	-48.30	-13.00	-35.30	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	20MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1720.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-70.60	1.05	-69.55	-13.00	-56.55	peak	H
2	325.5000	-80.31	-0.82	-81.13	-13.00	-68.13	peak	H
3	482.5000	-80.25	5.88	-74.37	-13.00	-61.37	peak	H
4	587.5000	-79.84	7.73	-72.11	-13.00	-59.11	peak	H
5	750.0000	-80.26	8.65	-71.61	-13.00	-58.61	peak	H
6	907.5000	-80.95	14.30	-66.65	-13.00	-53.65	peak	H
7	2656.000	-67.25	12.73	-54.52	-13.00	-41.52	peak	H
8	3435.000	-63.28	15.28	-48.00	-13.00	-35.00	peak	H
9	5128.000	-68.04	20.51	-47.53	-13.00	-34.53	peak	H
1	130.5000	-73.63	14.09	-59.54	-13.00	-46.54	peak	V
2	299.0000	-80.52	2.63	-77.89	-13.00	-64.89	peak	V
3	464.0000	-79.66	1.84	-77.82	-13.00	-64.82	peak	V
4	622.5000	-79.91	8.86	-71.05	-13.00	-58.05	peak	V
5	747.5000	-79.93	10.66	-69.27	-13.00	-56.27	peak	V
6	878.0000	-79.16	10.96	-68.20	-13.00	-55.20	peak	V
7	2656.000	-67.12	13.60	-53.52	-13.00	-40.52	peak	V
8	3435.000	-60.20	19.10	-41.10	-13.00	-28.10	peak	V
9	5740.000	-71.03	23.13	-47.90	-13.00	-34.90	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	20MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.0000	-71.29	1.13	-70.16	-13.00	-57.16	peak	H
2	326.5000	-81.04	-0.80	-81.84	-13.00	-68.84	peak	H
3	476.0000	-79.80	5.51	-74.29	-13.00	-61.29	peak	H
4	608.0000	-79.81	7.85	-71.96	-13.00	-58.96	peak	H
5	765.5000	-81.27	9.38	-71.89	-13.00	-58.89	peak	H
6	923.0000	-81.10	14.76	-66.34	-13.00	-53.34	peak	H
7	2764.000	-67.72	13.11	-54.61	-13.00	-41.61	peak	H
8	3465.000	-62.28	15.39	-46.89	-13.00	-33.89	peak	H
9	5752.000	-70.68	22.37	-48.31	-13.00	-35.31	peak	H
1	131.5000	-73.50	13.56	-59.94	-13.00	-46.94	peak	V
2	295.5000	-80.14	2.31	-77.83	-13.00	-64.83	peak	V
3	454.5000	-79.19	1.64	-77.55	-13.00	-64.55	peak	V
4	612.5000	-80.39	8.36	-72.03	-13.00	-59.03	peak	V
5	765.5000	-80.09	11.04	-69.05	-13.00	-56.05	peak	V
6	872.5000	-80.21	11.15	-69.06	-13.00	-56.06	peak	V
7	2656.000	-67.63	13.60	-54.03	-13.00	-41.03	peak	V
8	3465.000	-58.54	19.30	-39.24	-13.00	-26.24	peak	V
9	5476.000	-71.13	23.49	-47.64	-13.00	-34.64	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 4	Date:	10/17/2012
Channel Bandwidth:	20MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1745.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.0000	-72.63	1.45	-71.18	-13.00	-58.18	peak	H
2	314.0000	-80.26	-1.36	-81.62	-13.00	-68.62	peak	H
3	480.0000	-80.39	5.73	-74.66	-13.00	-61.66	peak	H
4	612.5000	-78.95	7.80	-71.15	-13.00	-58.15	peak	H
5	719.0000	-78.96	7.47	-71.49	-13.00	-58.49	peak	H
6	910.0000	-80.56	14.40	-66.16	-13.00	-53.16	peak	H
7	2632.000	-66.72	12.65	-54.07	-13.00	-41.07	peak	H
8	3495.000	-60.95	15.47	-45.48	-13.00	-32.48	peak	H
9	5644.000	-72.02	22.08	-49.94	-13.00	-36.94	peak	H
1	131.5000	-74.25	13.56	-60.69	-13.00	-47.69	peak	V
2	291.0000	-80.19	1.91	-78.28	-13.00	-65.28	peak	V
3	451.5000	-79.74	1.60	-78.14	-13.00	-65.14	peak	V
4	618.5000	-80.43	8.77	-71.66	-13.00	-58.66	peak	V
5	791.0000	-80.08	11.60	-68.48	-13.00	-55.48	peak	V
6	927.5000	-81.13	12.20	-68.93	-13.00	-55.93	peak	V
7	2644.000	-66.90	13.51	-53.39	-13.00	-40.39	peak	V
8	3495.000	-55.89	19.48	-36.41	-13.00	-23.41	peak	V
9	5764.000	-71.43	23.10	-48.33	-13.00	-35.33	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 5	Date:	10/18/2012
Channel Bandwidth:	1.4MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	824.7 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-69.78	1.05	-68.73	-13.00	-55.73	peak	H
2	299.5000	-77.92	-2.41	-80.33	-13.00	-67.33	peak	H
3	454.5000	-80.42	4.43	-75.99	-13.00	-62.99	peak	H
4	612.0000	-80.44	7.79	-72.65	-13.00	-59.65	peak	H
5	782.0000	-81.49	10.30	-71.19	-13.00	-58.19	peak	H
6	933.5000	-81.61	14.82	-66.79	-13.00	-53.79	peak	H
7	2836.000	-68.83	13.36	-55.47	-13.00	-42.47	peak	H
8	5236.000	-72.51	20.85	-51.66	-13.00	-38.66	peak	H
9	7612.000	-70.69	29.30	-41.39	-13.00	-28.39	peak	H
1	133.5000	-69.36	12.47	-56.89	-13.00	-43.89	peak	V
2	296.5000	-77.43	2.39	-75.04	-13.00	-62.04	peak	V
3	443.5000	-79.25	1.49	-77.76	-13.00	-64.76	peak	V
4	609.5000	-78.79	8.13	-70.66	-13.00	-57.66	peak	V
5	749.5000	-79.77	10.72	-69.05	-13.00	-56.05	peak	V
6	914.0000	-81.06	11.48	-69.58	-13.00	-56.58	peak	V
7	2656.000	-68.95	13.60	-55.35	-13.00	-42.35	peak	V
8	5104.000	-70.34	23.46	-46.88	-13.00	-33.88	peak	V
9	7588.000	-71.58	26.48	-45.10	-13.00	-32.10	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 5	Date:	10/18/2012
Channel Bandwidth:	1.4MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	836.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-65.34	1.05	-64.29	-13.00	-51.29	peak	H
2	300.0000	-77.03	-2.36	-79.39	-13.00	-66.39	peak	H
3	436.5000	-80.01	3.81	-76.20	-13.00	-63.20	peak	H
4	606.0000	-80.20	7.87	-72.33	-13.00	-59.33	peak	H
5	744.0000	-74.32	8.38	-65.94	-13.00	-52.94	peak	H
6	949.5000	-81.03	14.84	-66.19	-13.00	-53.19	peak	H
7	2716.000	-68.63	12.94	-55.69	-13.00	-42.69	peak	H
8	5104.000	-71.77	20.43	-51.34	-13.00	-38.34	peak	H
9	7456.000	-72.56	29.07	-43.49	-13.00	-30.49	peak	H
1	133.5000	-65.89	12.47	-53.42	-13.00	-40.42	peak	V
2	299.5000	-76.40	2.66	-73.74	-13.00	-60.74	peak	V
3	450.0000	-79.69	1.58	-78.11	-13.00	-65.11	peak	V
4	597.5000	-80.43	7.26	-73.17	-13.00	-60.17	peak	V
5	717.5000	-79.83	10.78	-69.05	-13.00	-56.05	peak	V
6	934.5000	-81.30	12.50	-68.80	-13.00	-55.80	peak	V
7	2656.000	-68.28	13.60	-54.68	-13.00	-41.68	peak	V
8	5092.000	-71.06	23.46	-47.60	-13.00	-34.60	peak	V
9	7648.000	-71.24	26.46	-44.78	-13.00	-31.78	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 5	Date:	10/18/2012
Channel Bandwidth:	1.4MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	848.3 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-66.35	1.05	-65.30	-13.00	-52.30	peak	H
2	294.5000	-75.85	-2.90	-78.75	-13.00	-65.75	peak	H
3	440.0000	-78.11	3.90	-74.21	-13.00	-61.21	peak	H
4	538.0000	-79.78	8.19	-71.59	-13.00	-58.59	peak	H
5	687.0000	-78.83	6.99	-71.84	-13.00	-58.84	peak	H
6	924.5000	-81.62	14.77	-66.85	-13.00	-53.85	peak	H
7	2788.000	-68.12	13.19	-54.93	-13.00	-41.93	peak	H
8	5152.000	-72.00	20.58	-51.42	-13.00	-38.42	peak	H
9	7660.000	-71.05	29.33	-41.72	-13.00	-28.72	peak	H
1	130.5000	-68.13	14.10	-54.03	-13.00	-41.03	peak	V
2	294.0000	-74.80	2.17	-72.63	-13.00	-59.63	peak	V
3	416.0000	-79.81	1.34	-78.47	-13.00	-65.47	peak	V
4	569.0000	-79.42	5.07	-74.35	-13.00	-61.35	peak	V
5	707.5000	-79.31	10.44	-68.87	-13.00	-55.87	peak	V
6	910.0000	-79.60	11.23	-68.37	-13.00	-55.37	peak	V
7	2764.000	-67.89	14.49	-53.40	-13.00	-40.40	peak	V
8	5068.000	-71.94	23.46	-48.48	-13.00	-35.48	peak	V
9	7516.000	-71.51	26.50	-45.01	-13.00	-32.01	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 5	Date:	10/18/2012
Channel Bandwidth:	3MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	825.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	156.5000	-70.14	0.33	-69.81	-13.00	-56.81	peak	H
2	296.5000	-77.12	-2.71	-79.83	-13.00	-66.83	peak	H
3	413.5000	-80.05	3.15	-76.90	-13.00	-63.90	peak	H
4	543.5000	-80.45	8.17	-72.28	-13.00	-59.28	peak	H
5	715.0000	-80.92	7.35	-73.57	-13.00	-60.57	peak	H
6	902.0000	-81.39	14.14	-67.25	-13.00	-54.25	peak	H
7	2716.000	-69.19	12.94	-56.25	-13.00	-43.25	peak	H
8	5200.000	-71.95	20.73	-51.22	-13.00	-38.22	peak	H
9	7456.000	-71.51	29.07	-42.44	-13.00	-29.44	peak	H
1	131.5000	-70.63	13.57	-57.06	-13.00	-44.06	peak	V
2	293.5000	-76.34	2.12	-74.22	-13.00	-61.22	peak	V
3	419.5000	-79.86	1.34	-78.52	-13.00	-65.52	peak	V
4	582.5000	-78.61	6.11	-72.50	-13.00	-59.50	peak	V
5	726.5000	-80.10	10.74	-69.36	-13.00	-56.36	peak	V
6	912.0000	-80.49	11.36	-69.13	-13.00	-56.13	peak	V
7	2800.000	-68.75	14.79	-53.96	-13.00	-40.96	peak	V
8	5260.000	-71.87	23.47	-48.40	-13.00	-35.40	peak	V
9	7552.000	-72.28	26.49	-45.79	-13.00	-32.79	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 5	Date:	10/18/2012
Channel Bandwidth:	3MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	836.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-68.39	1.05	-67.34	-13.00	-54.34	peak	H
2	294.0000	-76.47	-2.95	-79.42	-13.00	-66.42	peak	H
3	428.0000	-80.07	3.63	-76.44	-13.00	-63.44	peak	H
4	608.5000	-79.01	7.83	-71.18	-13.00	-58.18	peak	H
5	755.0000	-80.36	8.87	-71.49	-13.00	-58.49	peak	H
6	929.0000	-81.56	14.79	-66.77	-13.00	-53.77	peak	H
7	2908.000	-68.95	13.61	-55.34	-13.00	-42.34	peak	H
8	5284.000	-72.24	21.01	-51.23	-13.00	-38.23	peak	H
9	7516.000	-71.93	29.22	-42.71	-13.00	-29.71	peak	H
1	133.5000	-66.31	12.47	-53.84	-13.00	-40.84	peak	V
2	297.0000	-75.70	2.44	-73.26	-13.00	-60.26	peak	V
3	440.0000	-79.52	1.45	-78.07	-13.00	-65.07	peak	V
4	593.5000	-80.95	6.94	-74.01	-13.00	-61.01	peak	V
5	720.0000	-79.81	10.86	-68.95	-13.00	-55.95	peak	V
6	933.5000	-80.45	12.45	-68.00	-13.00	-55.00	peak	V
7	2740.000	-68.41	14.29	-54.12	-13.00	-41.12	peak	V
8	4768.000	-70.97	22.86	-48.11	-13.00	-35.11	peak	V
9	7612.000	-71.15	26.47	-44.68	-13.00	-31.68	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 5	Date:	10/18/2012
Channel Bandwidth:	3MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	847.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-67.45	1.05	-66.40	-13.00	-53.40	peak	H
2	294.0000	-76.40	-2.95	-79.35	-13.00	-66.35	peak	H
3	442.5000	-79.79	3.99	-75.80	-13.00	-62.80	peak	H
4	552.5000	-79.46	7.97	-71.49	-13.00	-58.49	peak	H
5	706.0000	-79.49	7.11	-72.38	-13.00	-59.38	peak	H
6	925.0000	-81.60	14.77	-66.83	-13.00	-53.83	peak	H
7	2704.000	-68.84	12.90	-55.94	-13.00	-42.94	peak	H
8	5344.000	-72.39	21.20	-51.19	-13.00	-38.19	peak	H
9	7612.000	-71.28	29.30	-41.98	-13.00	-28.98	peak	H
1	130.5000	-68.44	14.10	-54.34	-13.00	-41.34	peak	V
2	294.0000	-75.52	2.17	-73.35	-13.00	-60.35	peak	V
3	455.0000	-79.68	1.64	-78.04	-13.00	-65.04	peak	V
4	597.5000	-80.43	7.26	-73.17	-13.00	-60.17	peak	V
5	758.5000	-80.33	10.92	-69.41	-13.00	-56.41	peak	V
6	910.0000	-80.85	11.23	-69.62	-13.00	-56.62	peak	V
7	3268.000	-69.33	18.08	-51.25	-13.00	-38.25	peak	V
8	5092.000	-71.88	23.46	-48.42	-13.00	-35.42	peak	V
9	7564.000	-72.14	26.49	-45.65	-13.00	-32.65	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 5	Date:	10/18/2012
Channel Bandwidth:	5MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	826.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.0000	-71.51	1.45	-70.06	-13.00	-57.06	peak	H
2	294.0000	-77.50	-2.95	-80.45	-13.00	-67.45	peak	H
3	445.0000	-80.39	4.09	-76.30	-13.00	-63.30	peak	H
4	602.0000	-79.14	7.92	-71.22	-13.00	-58.22	peak	H
5	754.0000	-80.53	8.83	-71.70	-13.00	-58.70	peak	H
6	932.0000	-81.39	14.81	-66.58	-13.00	-53.58	peak	H
7	2788.000	-68.48	13.19	-55.29	-13.00	-42.29	peak	H
8	5344.000	-71.87	21.20	-50.67	-13.00	-37.67	peak	H
9	7600.000	-72.13	29.28	-42.85	-13.00	-29.85	peak	H
1	160.0000	-71.51	1.45	-70.06	-13.00	-57.06	peak	V
2	294.0000	-77.50	-2.95	-80.45	-13.00	-67.45	peak	V
3	445.0000	-80.39	4.09	-76.30	-13.00	-63.30	peak	V
4	602.0000	-79.14	7.92	-71.22	-13.00	-58.22	peak	V
5	754.0000	-80.53	8.83	-71.70	-13.00	-58.70	peak	V
6	932.0000	-81.39	14.81	-66.58	-13.00	-53.58	peak	V
7	2788.000	-68.48	13.19	-55.29	-13.00	-42.29	peak	V
8	5344.000	-71.87	21.20	-50.67	-13.00	-37.67	peak	V
9	7600.000	-72.13	29.28	-42.85	-13.00	-29.85	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 5	Date:	10/18/2012
Channel Bandwidth:	5MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	836.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-67.35	1.05	-66.30	-13.00	-53.30	peak	H
2	300.0000	-76.52	-2.36	-78.88	-13.00	-65.88	peak	H
3	470.0000	-80.04	5.18	-74.86	-13.00	-61.86	peak	H
4	591.5000	-79.35	7.80	-71.55	-13.00	-58.55	peak	H
5	740.0000	-79.31	8.20	-71.11	-13.00	-58.11	peak	H
6	945.5000	-81.22	14.86	-66.36	-13.00	-53.36	peak	H
7	2704.000	-69.65	12.90	-56.75	-13.00	-43.75	peak	H
8	5152.000	-72.04	20.58	-51.46	-13.00	-38.46	peak	H
9	7564.000	-72.57	29.26	-43.31	-13.00	-30.31	peak	H
1	130.5000	-68.08	14.10	-53.98	-13.00	-40.98	peak	V
2	288.0000	-75.92	1.63	-74.29	-13.00	-61.29	peak	V
3	454.0000	-79.95	1.64	-78.31	-13.00	-65.31	peak	V
4	604.5000	-79.35	7.78	-71.57	-13.00	-58.57	peak	V
5	755.0000	-80.27	10.84	-69.43	-13.00	-56.43	peak	V
6	921.0000	-81.11	11.91	-69.20	-13.00	-56.20	peak	V
7	2956.000	-68.95	16.05	-52.90	-13.00	-39.90	peak	V
8	5164.000	-71.38	23.47	-47.91	-13.00	-34.91	peak	V
9	7792.000	-71.91	26.42	-45.49	-13.00	-32.49	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 5	Date:	10/18/2012
Channel Bandwidth:	5MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	846.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.0000	-67.55	1.13	-66.42	-13.00	-53.42	peak	H
2	300.0000	-76.10	-2.36	-78.46	-13.00	-65.46	peak	H
3	448.5000	-79.92	4.21	-75.71	-13.00	-62.71	peak	H
4	614.5000	-78.80	7.77	-71.03	-13.00	-58.03	peak	H
5	757.5000	-80.49	8.97	-71.52	-13.00	-58.52	peak	H
6	925.0000	-82.60	14.77	-67.83	-13.00	-54.83	peak	H
7	2620.000	-69.22	12.61	-56.61	-13.00	-43.61	peak	H
8	5152.000	-71.94	20.58	-51.36	-13.00	-38.36	peak	H
9	7252.000	-72.40	28.39	-44.01	-13.00	-31.01	peak	H
1	133.5000	-67.03	12.47	-54.56	-13.00	-41.56	peak	V
2	294.5000	-76.03	2.22	-73.81	-13.00	-60.81	peak	V
3	445.5000	-79.86	1.52	-78.34	-13.00	-65.34	peak	V
4	590.0000	-79.66	6.68	-72.98	-13.00	-59.98	peak	V
5	737.0000	-80.00	10.54	-69.46	-13.00	-56.46	peak	V
6	935.5000	-81.31	12.54	-68.77	-13.00	-55.77	peak	V
7	2956.000	-69.53	16.05	-53.48	-13.00	-40.48	peak	V
8	5092.000	-71.84	23.46	-48.38	-13.00	-35.38	peak	V
9	7516.000	-72.02	26.50	-45.52	-13.00	-32.52	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 5	Date:	10/18/2012
Channel Bandwidth:	10MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	829.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-70.49	1.05	-69.44	-13.00	-56.44	peak	H
2	291.0000	-77.91	-3.25	-81.16	-13.00	-68.16	peak	H
3	462.5000	-80.40	4.75	-75.65	-13.00	-62.65	peak	H
4	586.0000	-79.35	7.69	-71.66	-13.00	-58.66	peak	H
5	750.5000	-80.88	8.66	-72.22	-13.00	-59.22	peak	H
6	922.0000	-81.39	14.75	-66.64	-13.00	-53.64	peak	H
7	2692.000	-68.62	12.85	-55.77	-13.00	-42.77	peak	H
8	5260.000	-71.77	20.93	-50.84	-13.00	-37.84	peak	H
9	7588.000	-71.35	29.27	-42.08	-13.00	-29.08	peak	H
1	132.0000	-72.18	13.29	-58.89	-13.00	-45.89	peak	V
2	297.0000	-75.98	2.44	-73.54	-13.00	-60.54	peak	V
3	447.0000	-80.56	1.54	-79.02	-13.00	-66.02	peak	V
4	597.5000	-78.82	7.26	-71.56	-13.00	-58.56	peak	V
5	737.0000	-79.46	10.54	-68.92	-13.00	-55.92	peak	V
6	943.0000	-79.77	12.68	-67.09	-13.00	-54.09	peak	V
7	2944.000	-70.01	15.96	-54.05	-13.00	-41.05	peak	V
8	5044.000	-70.92	23.46	-47.46	-13.00	-34.46	peak	V
9	7540.000	-71.70	26.49	-45.21	-13.00	-32.21	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 5	Date:	10/18/2012
Channel Bandwidth:	10MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	836.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	163.5000	-68.67	-1.28	-69.95	-13.00	-56.95	peak	H
2	297.0000	-77.19	-2.66	-79.85	-13.00	-66.85	peak	H
3	437.0000	-80.61	3.84	-76.77	-13.00	-63.77	peak	H
4	568.5000	-79.69	7.72	-71.97	-13.00	-58.97	peak	H
5	737.0000	-80.92	8.09	-72.83	-13.00	-59.83	peak	H
6	908.0000	-81.47	14.33	-67.14	-13.00	-54.14	peak	H
7	2656.000	-68.93	12.73	-56.20	-13.00	-43.20	peak	H
8	5068.000	-71.31	20.32	-50.99	-13.00	-37.99	peak	H
9	7612.000	-71.80	29.30	-42.50	-13.00	-29.50	peak	H
1	134.0000	-65.93	12.20	-53.73	-13.00	-40.73	peak	V
2	294.5000	-76.01	2.22	-73.79	-13.00	-60.79	peak	V
3	440.0000	-79.87	1.45	-78.42	-13.00	-65.42	peak	V
4	609.5000	-80.57	8.13	-72.44	-13.00	-59.44	peak	V
5	739.5000	-78.96	10.50	-68.46	-13.00	-55.46	peak	V
6	932.5000	-80.92	12.40	-68.52	-13.00	-55.52	peak	V
7	2908.000	-69.66	15.67	-53.99	-13.00	-40.99	peak	V
8	5068.000	-71.33	23.46	-47.87	-13.00	-34.87	peak	V
9	7612.000	-72.09	26.47	-45.62	-13.00	-32.62	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 5	Date:	10/18/2012
Channel Bandwidth:	10MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	844.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.5000	-71.05	1.30	-69.75	-13.00	-56.75	peak	H
2	303.0000	-77.16	-2.15	-79.31	-13.00	-66.31	peak	H
3	442.5000	-79.93	3.99	-75.94	-13.00	-62.94	peak	H
4	588.0000	-79.72	7.73	-71.99	-13.00	-58.99	peak	H
5	726.5000	-77.75	7.72	-70.03	-13.00	-57.03	peak	H
6	924.0000	-82.01	14.76	-67.25	-13.00	-54.25	peak	H
7	2608.000	-68.43	12.57	-55.86	-13.00	-42.86	peak	H
8	5116.000	-71.78	20.46	-51.32	-13.00	-38.32	peak	H
9	7516.000	-71.72	29.22	-42.50	-13.00	-29.50	peak	H
1	132.5000	-71.26	13.02	-58.24	-13.00	-45.24	peak	V
2	297.0000	-76.70	2.44	-74.26	-13.00	-61.26	peak	V
3	466.5000	-80.10	1.92	-78.18	-13.00	-65.18	peak	V
4	621.5000	-78.89	8.88	-70.01	-13.00	-57.01	peak	V
5	733.0000	-79.88	10.63	-69.25	-13.00	-56.25	peak	V
6	933.5000	-81.24	12.45	-68.79	-13.00	-55.79	peak	V
7	2896.000	-69.09	15.57	-53.52	-13.00	-40.52	peak	V
8	5188.000	-72.27	23.46	-48.81	-13.00	-35.81	peak	V
9	7684.000	-71.77	26.45	-45.32	-13.00	-32.32	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 17	Date:	10/19/2012
Channel Bandwidth:	5MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	706.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	136.0000	-75.38	-4.78	-80.16	-13.00	-67.16	peak	H
2	227.0000	-82.44	-0.80	-83.24	-13.00	-70.24	peak	H
3	369.0000	-83.00	0.38	-82.62	-13.00	-69.62	peak	H
4	602.5000	-81.51	7.91	-73.60	-13.00	-60.60	peak	H
5	743.5000	-82.15	8.35	-73.80	-13.00	-60.80	peak	H
6	985.5000	-82.22	14.38	-67.84	-13.00	-54.84	peak	H
7	2380.000	-70.88	11.79	-59.09	-13.00	-46.09	peak	H
8	4948.000	-71.41	19.78	-51.63	-13.00	-38.63	peak	H
9	8800.000	-73.74	27.21	-46.53	-13.00	-33.53	peak	H
1	66.0000	-72.33	-7.18	-79.51	-13.00	-66.51	peak	V
2	165.5000	-73.41	7.48	-65.93	-13.00	-52.93	peak	V
3	268.5000	-80.57	-0.52	-81.09	-13.00	-68.09	peak	V
4	557.0000	-80.90	4.35	-76.55	-13.00	-63.55	peak	V
5	681.5000	-80.97	9.61	-71.36	-13.00	-58.36	peak	V
6	934.0000	-82.52	12.47	-70.05	-13.00	-57.05	peak	V
7	2512.000	-70.23	12.43	-57.80	-13.00	-44.80	peak	V
8	6556.000	-71.49	24.96	-46.53	-13.00	-33.53	peak	V
9	9604.000	-73.29	28.92	-44.37	-13.00	-31.37	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 17	Date:	10/19/2012
Channel Bandwidth:	5MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	710.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	86.0000	-79.15	-1.38	-80.53	-13.00	-67.53	peak	H
2	200.0000	-77.32	2.95	-74.37	-13.00	-61.37	peak	H
3	414.0000	-81.85	3.16	-78.69	-13.00	-65.69	peak	H
4	530.0000	-81.47	7.95	-73.52	-13.00	-60.52	peak	H
5	586.0000	-80.83	7.69	-73.14	-13.00	-60.14	peak	H
6	951.5000	-81.91	14.85	-67.06	-13.00	-54.06	peak	H
7	1312.000	-67.36	10.82	-56.54	-13.00	-43.54	peak	H
8	5260.000	-72.77	20.93	-51.84	-13.00	-38.84	peak	H
9	9556.000	-74.02	30.45	-43.57	-13.00	-30.57	peak	H
1	140.0000	-65.80	8.94	-56.86	-13.00	-43.86	peak	V
2	171.0000	-73.23	3.13	-70.10	-13.00	-57.10	peak	V
3	244.5000	-82.27	-0.21	-82.48	-13.00	-69.48	peak	V
4	437.0000	-81.22	1.44	-79.78	-13.00	-66.78	peak	V
5	586.0000	-81.42	6.37	-75.05	-13.00	-62.05	peak	V
6	945.0000	-83.03	12.66	-70.37	-13.00	-57.37	peak	V
7	4396.000	-70.01	21.84	-48.17	-13.00	-35.17	peak	V
8	9568.000	-74.72	28.77	-45.95	-13.00	-32.95	peak	V
9	11188.000	-75.18	37.20	-37.98	-13.00	-24.98	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 17	Date:	10/19/2012
Channel Bandwidth:	5MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	713.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	47.5000	-80.79	8.32	-72.47	-13.00	-59.47	peak	H
2	225.5000	-81.20	-0.74	-81.94	-13.00	-68.94	peak	H
3	424.0000	-82.06	3.53	-78.53	-13.00	-65.53	peak	H
4	586.5000	-81.48	7.72	-73.76	-13.00	-60.76	peak	H
5	680.0000	-80.44	7.02	-73.42	-13.00	-60.42	peak	H
6	933.0000	-81.79	14.82	-66.97	-13.00	-53.97	peak	H
7	3556.000	-69.52	15.61	-53.91	-13.00	-40.91	peak	H
8	5740.000	-70.07	22.34	-47.73	-13.00	-34.73	peak	H
9	9076.000	-73.94	26.78	-47.16	-13.00	-34.16	peak	H
1	118.0000	-75.59	3.73	-71.86	-13.00	-58.86	peak	V
2	343.0000	-81.77	1.38	-80.39	-13.00	-67.39	peak	V
3	537.0000	-80.67	4.09	-76.58	-13.00	-63.58	peak	V
4	654.5000	-80.77	9.18	-71.59	-13.00	-58.59	peak	V
5	683.5000	-81.01	9.67	-71.34	-13.00	-58.34	peak	V
6	910.0000	-79.60	11.23	-68.37	-13.00	-55.37	peak	V
7	2116.000	-68.95	10.18	-58.77	-13.00	-45.77	peak	V
8	7996.000	-72.45	26.35	-46.10	-13.00	-33.10	peak	V
9	9280.000	-74.82	26.60	-48.22	-13.00	-35.22	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 17	Date:	10/19/2012
Channel Bandwidth:	10MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	709.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	50.5000	-81.70	7.71	-73.99	-13.00	-60.99	peak	H
2	123.0000	-78.67	-5.23	-83.90	-13.00	-70.90	peak	H
3	409.5000	-81.45	2.96	-78.49	-13.00	-65.49	peak	H
4	650.0000	-81.59	6.99	-74.60	-13.00	-61.60	peak	H
5	685.5000	-81.12	7.00	-74.12	-13.00	-61.12	peak	H
6	943.0000	-84.00	14.85	-69.15	-13.00	-56.15	peak	H
7	4528.000	-71.13	17.21	-53.92	-13.00	-40.92	peak	H
8	6820.000	-71.35	27.08	-44.27	-13.00	-31.27	peak	H
9	9280.000	-74.15	28.43	-45.72	-13.00	-32.72	peak	H
1	194.0000	-81.27	4.50	-76.77	-13.00	-63.77	peak	V
2	223.5000	-81.44	4.20	-77.24	-13.00	-64.24	peak	V
3	401.5000	-81.74	1.34	-80.40	-13.00	-67.40	peak	V
4	448.5000	-80.49	1.56	-78.93	-13.00	-65.93	peak	V
5	636.5000	-80.83	8.66	-72.17	-13.00	-59.17	peak	V
6	949.5000	-82.53	12.56	-69.97	-13.00	-56.97	peak	V
7	2980.000	-69.51	16.25	-53.26	-13.00	-40.26	peak	V
8	6124.000	-73.02	23.28	-49.74	-13.00	-36.74	peak	V
9	9820.000	-74.29	29.79	-44.50	-13.00	-31.50	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 17	Date:	10/19/2012
Channel Bandwidth:	10MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	710.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	52.0000	-62.68	7.23	-55.45	-13.00	-42.45	peak	H
2	220.0000	-77.76	-0.52	-78.28	-13.00	-65.28	peak	H
3	443.5000	-81.12	4.02	-77.10	-13.00	-64.10	peak	H
4	652.5000	-81.04	7.04	-74.00	-13.00	-61.00	peak	H
5	743.5000	-79.53	8.35	-71.18	-13.00	-58.18	peak	H
6	964.5000	-83.66	14.72	-68.94	-13.00	-55.94	peak	H
7	4192.000	-70.58	16.67	-53.91	-13.00	-40.91	peak	H
8	6628.000	-72.65	26.51	-46.14	-13.00	-33.14	peak	H
9	9268.000	-73.43	28.34	-45.09	-13.00	-32.09	peak	H
1	195.0000	-79.07	5.46	-73.61	-13.00	-60.61	peak	V
2	427.5000	-82.09	1.38	-80.71	-13.00	-67.71	peak	V
3	478.0000	-80.83	2.33	-78.50	-13.00	-65.50	peak	V
4	683.5000	-81.38	9.67	-71.71	-13.00	-58.71	peak	V
5	784.0000	-79.31	11.40	-67.91	-13.00	-54.91	peak	V
6	943.5000	-82.20	12.68	-69.52	-13.00	-56.52	peak	V
7	3484.000	-70.04	19.41	-50.63	-13.00	-37.63	peak	V
8	7684.000	-72.70	26.45	-46.25	-13.00	-33.25	peak	V
9	9772.000	-73.30	29.59	-43.71	-13.00	-30.71	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 770S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 17	Date:	10/19/2012
Channel Bandwidth:	10MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	711.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	64.5000	-78.22	1.66	-76.56	-13.00	-63.56	peak	H
2	242.5000	-83.15	-2.62	-85.77	-13.00	-72.77	peak	H
3	366.5000	-82.11	0.29	-81.82	-13.00	-68.82	peak	H
4	601.5000	-82.10	7.93	-74.17	-13.00	-61.17	peak	H
5	691.5000	-82.11	6.98	-75.13	-13.00	-62.13	peak	H
6	952.0000	-83.05	14.85	-68.20	-13.00	-55.20	peak	H
7	3052.000	-69.11	14.09	-55.02	-13.00	-42.02	peak	H
8	8080.000	-73.47	29.48	-43.99	-13.00	-30.99	peak	H
9	11428.000	-74.46	36.78	-37.68	-13.00	-24.68	peak	H
1	181.0000	-76.86	1.92	-74.94	-13.00	-61.94	peak	V
2	377.0000	-81.35	1.75	-79.60	-13.00	-66.60	peak	V
3	459.5000	-80.99	1.70	-79.29	-13.00	-66.29	peak	V
4	628.5000	-80.99	8.77	-72.22	-13.00	-59.22	peak	V
5	683.5000	-81.01	9.67	-71.34	-13.00	-58.34	peak	V
6	936.5000	-82.51	12.59	-69.92	-13.00	-56.92	peak	V
7	3340.000	-69.40	18.52	-50.88	-13.00	-37.88	peak	V
8	8260.000	-73.08	26.21	-46.87	-13.00	-33.87	peak	V
9	10876.000	-75.41	35.83	-39.58	-13.00	-26.58	peak	V