FCC CFR47 PART 24E, 27
CERTIFICATION TEST REPORT

FCC ID: 2AELAONEGLASS

Product:	Smartphone
Trade Name:	OWN
Model Number:	One Glass
Serial Model:	N/A
Report No.:	NTEK- 2016NT08198384F6

Prepared for

Ingram Micro Chile S.A

El Rosal,4765,Huechuraba,Santiago,CL

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name ..... :	Ingram Micro Chile S.A
Address ..... :	El Rosal,4765,Huechuraba,Santiago,CL
Manufacture's Name ..... :	Haier International (HK) Limited
Address ..... :	503,Block B2, KeXing Science Park, KeYuan Road, Nanshan, Shenzhen, China
Product name ..... :	Smartphone
Model and/or type reference ... :	One Glass
Serial Model:	N/A
Standards ..... :	FCC CFR 47 Part 22H, Part 24E, Part 27
Test procedure ..... :	ANSI C63.4-2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....

Date (s) of performance of tests ..... 19 Aug. 2016 ~ 26 Sep. 2016

Date of Issue..... 26 Sep . 2016

Test Result..... **Pass**

Testing Engineer : Eileen Wu.
(Janon chen)

Technical Manager : Jason chen
(Jason Chen)

Authorized Signatory : Sam. chen
(Sam Chen)

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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	Smartphone
Hardware version:	W9 YK609-MB-V0.3
Software version:	YK609_MB_W9_HK_V017
FCC ID:	2AELAONEGLASS
Frequency Bands:	U.S. Bands: ☒ LTE FDD Band 2,4 ,7,17
Frequency Range:	LTE Band 2 Uplink: 1850MHz-1910MHz, Downlink: 1930MHz-1990MHz LTE Band 4 Uplink: 1710MHz-1755MHz, Downlink: 2110MHz-2155MHz LTE Band 7 Uplink: 2500MHz-2570MHz, Downlink: 2620MHz-2690MHz LTE Band 17 Uplink: 704MHz-716MHz, Downlink: 734MHz-746MHz
Type of Modulation:	QPSK/16QAM
Antenna:	FPCB Antenna
Antenna gain:	1.0dBi
Power Supply:	DC 3.8V/2050mAh from Battery or DC 5V from Adapter.
Battery parameter:	DC 3.8V/2050mAh
Adapter:	Model:HJ-0501000E1-US Input:AC 100~240V 50/60Hz 0.2A Output:DC 5V,1000mAh
Extreme Vol. Limits:	DC3.6 V to 4.4 V (Nominal DC3.8 V)
Extreme Temp. Tolerance	-10℃ to +50℃
** Note: The High Voltage 4.4V and Low Voltage 3.6V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.	

1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AELAONEGLASS** filing to comply with the FCC Part 22H&24E &27.

1.3 TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-D, FCC CFR 47 Part 2, Part 22, Part 24, Part 27.

1.4 TEST FACILITY

The test site used to collect the radiated data is located at:

ShenZhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003.

FCC Registration No.:238937

IC Registration No.:9270A-1,

CNAS Registration No.:L5516

1.5 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

1.6 WORST-CASE CONFIGURATION AND MODE

The worst-case scenario for all measurements is based on the investigation results.

The device has LTE Bands of: Band 2, Band 4, Band 7, Band 17

The RB Size was selected to measure for peak or average ERP and EIRP, which was based on the conducted power verification baseline data.

For the fundamental investigation of radiated emissions, the EUT is investigated for vertical and horizontal antenna orientations and X Y and Z orientations of the EUT alone. After the investigations the worst case was determined to be at X orientation for all LTE bands.

2. SYSTEM TEST CONFIGURATION

2.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

2.3 CONFIGURATION OF EUT SYSTEM

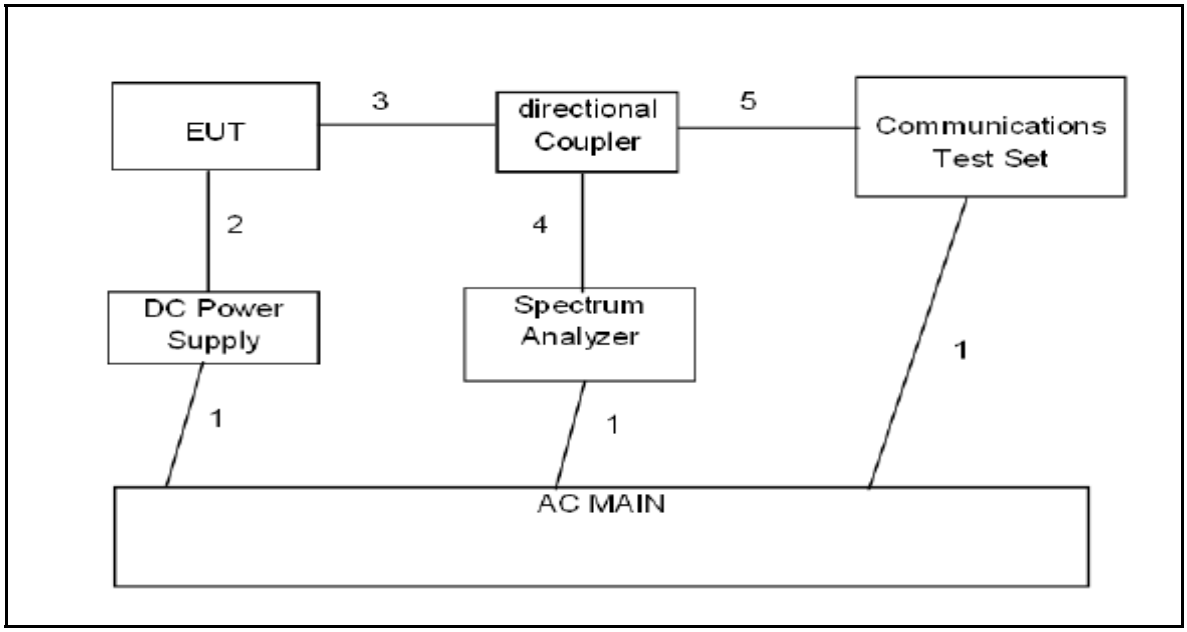
Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Note
1	Smartphone	One Glass	FCC ID: 2AELAONEGLASS	EUT

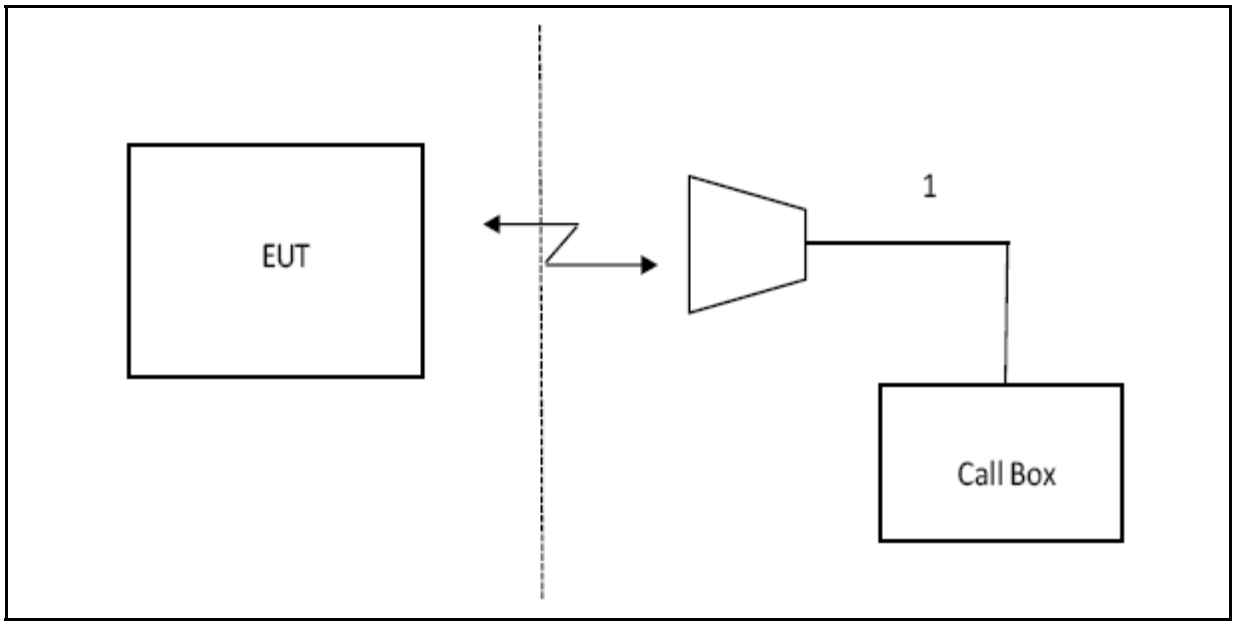
Note: All the accessories have been used during the test.
the following "EUT" in setup diagram means EUT system.

2.4 TEST SETUP

CONDUCTED SETUP DIAGRAM FOR TESTS



RADIATED SETUP DIAGRAM FOR TESTS



3.TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	NEXT CAL. DATE
SPECTRUM ANALYZER	AGILENT	E4440A	US44300399	2017.6.26
TEST RECEIVER	R&S	ESCI	A0304218	2017.6.26
COMMUNICATION TESTER	R&S	CMU200	A0304247	2017.6.26
COMMUNICATION TESTER	R&S	CMW500	X	2017.6.26
TEST RECEIVER	R&S	FCKL1528	A0304230	2017.6.26
LISN	SCHWARZBECK	NSLK8127	A0304233	2017.6.26
CLIMATE CHAMBER	ALBATROSS	--	--	2017.6.26
Loop Antenna	Daze	ZN30900N	SEL0097	2017.6.26
Bilogical Antenna	A.H. Systems Inc.	SAS-521-4	N/A	2017.6.26
Horn Antenna	EM	EM-AH-10180	N/A	2017.6.26

4. OUTPUT POWER

4.1 OUTPUT POWER MEASUREMENT

LTE Measurement Procedure:

All LTE bands conducted power peak and average are obtained from the CMW500 telecommunication test set. The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of “NS_01”.3

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4,10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	Table 6.2.4-2
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23[1]	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
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NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

4.1.2 LTE BAND 2

OUTPUT POWER FOR LTE BAND 2 (1.4MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power(dBm)	Peak Power(dBm)
					RB Size	RB Offset		
Band 2	1.4MHz	18607	1850.7	QPSK	1	Low	23.92	28.68
					1	Mid	24.02	28.64
					1	High	23.96	28.69
					3	Low	24.12	29.03
					3	High	24.12	29.09
					6	Low	22.95	29.27
				16QAM	1	Low	23.99	28.59
					1	Mid	24.08	28.72
					1	High	24.01	28.61
					3	Low	24.15	29.00
					3	High	24.15	29.08
					6	Low	22.96	29.44
	1.4MHz	18900	1880.0	QPSK	1	Low	23.94	28.56
					1	Mid	24.03	28.60
					1	High	23.96	28.56
					3	Low	24.11	28.90
					3	High	24.11	29.10
					6	Low	22.92	29.36
				16QAM	1	Low	23.96	28.68
					1	Mid	24.01	28.70
					1	High	23.95	28.64
					3	Low	24.12	29.03
					3	High	24.11	29.05
					6	Low	22.90	28.97
	1.4MHz	19193	1909.3	QPSK	1	Low	24.11	27.71
					1	Mid	24.25	27.62
					1	High	24.18	27.58
					3	Low	24.15	28.10
					3	High	24.17	28.04
					6	Low	23.09	28.45
				16QAM	1	Low	24.15	27.69
					1	Mid	24.28	27.67
					1	High	24.18	27.61
					3	Low	24.16	28.09
					3	High	24.19	28.04
					6	Low	23.10	28.42

OUTPUT POWER FOR LTE BAND 2 (3.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power(dBm)	Peak Power(dBm)
					RB Size	RB Offset		
Band 2	3.0 MHz	18615	1851.5	QPSK	1	Low	24.00	28.49
					1	Mid	24.06	28.49
					1	High	23.99	28.47
					8	Low	23.99	28.47
					8	High	23.99	28.45
					15	Low	23.15	29.36
				16QAM	1	Low	24.01	28.43
					1	Mid	24.06	28.49
					1	High	23.99	28.42
					8	Low	23.99	28.46
					8	High	24.00	28.43
					15	Low	23.15	29.48
	3.0 MHz	18900	1880.0	QPSK	1	Low	23.92	28.42
					1	Mid	24.00	28.45
					1	High	23.92	28.38
					8	Low	23.93	28.39
					8	High	23.92	28.40
					15	Low	23.06	29.40
				16QAM	1	Low	23.92	28.39
					1	Mid	24.00	28.47
					1	High	23.93	28.40
					8	Low	23.93	28.40
					8	High	23.92	28.39
					15	Low	23.05	29.11
	3.0 MHz	19185	1908.5	QPSK	1	Low	24.11	27.95
					1	Mid	24.22	27.77
					1	High	24.18	27.61
					8	Low	24.19	27.59
					8	High	24.20	27.58
					15	Low	23.18	29.64
				16QAM	1	Low	24.12	27.90
					1	Mid	24.22	27.74
					1	High	24.18	27.55
					8	Low	24.19	27.57
					8	High	24.19	27.56
					15	Low	23.17	29.41

OUTPUT POWER FOR LTE BAND 2 (5.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power(dBm)	Peak Power(dBm)
					RB Size	RB Offset		
Band 2	5.0 MHz	18625	1852.5	QPSK	1	Low	24.13	28.59
					1	Mid	24.14	28.66
					1	High	24.12	28.67
					12	Low	23.22	29.46
					12	High	23.21	29.51
					25	Low	23.13	29.93
				16QAM	1	Low	24.12	28.63
					1	Mid	24.15	28.64
					1	High	24.11	28.66
					12	Low	23.21	29.47
					12	High	23.21	29.50
					25	Low	23.13	30.05
	5.0 MHz	18900	1880.0	QPSK	1	Low	24.05	28.59
					1	Mid	24.04	28.55
					1	High	24.05	28.52
					12	Low	23.11	29.23
					12	High	23.13	29.25
					25	Low	23.03	29.38
				16QAM	1	Low	24.05	28.60
					1	Mid	24.04	28.58
					1	High	24.05	28.53
					12	Low	23.12	29.35
					12	High	23.13	29.35
					25	Low	23.03	29.96
	5.0 MHz	19175	1907.5	QPSK	1	Low	24.21	28.30
					1	Mid	24.24	28.05
					1	High	24.25	27.69
					12	Low	23.22	28.80
					12	High	23.24	28.54
					25	Low	23.15	29.50
				16QAM	1	Low	24.21	28.29
					1	Mid	24.25	28.02
					1	High	24.28	27.69
					12	Low	23.23	28.67
					12	High	23.24	28.37
					25	Low	23.15	29.02

OUTPUT POWER FOR LTE BAND 2 (10.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power(dBm)	Peak Power(dBm)
					RB Size	RB Offset		
Band 2	10.0 MHz	18650	1855.0	QPSK	1	Low	24.09	28.54
					1	Mid	24.08	28.63
					1	High	24.10	28.60
					25	Low	23.14	29.31
					25	High	23.14	29.32
					50	Low	23.17	29.43
				16QAM	1	Low	24.08	28.52
					1	Mid	24.09	28.56
					1	High	24.10	28.60
					25	Low	23.14	29.32
					25	High	23.14	29.32
					50	Low	23.17	29.42
	10.0 MHz	18900	1880.0	QPSK	1	Low	24.02	28.49
					1	Mid	24.01	28.45
					1	High	24.01	28.36
					25	Low	23.09	29.22
					25	High	23.08	29.13
					50	Low	23.11	29.33
				16QAM	1	Low	24.02	28.49
					1	Mid	24.01	28.43
					1	High	24.00	28.38
					25	Low	23.10	29.20
					25	High	23.06	29.18
					50	Low	23.12	29.55
	10.0 MHz	19150	1905.0	QPSK	1	Low	24.13	28.32
					1	Mid	24.17	28.16
					1	High	24.21	27.66
					25	Low	23.14	28.99
					25	High	23.14	28.74
					50	Low	23.19	29.14
				16QAM	1	Low	24.14	28.29
					1	Mid	24.16	28.17
					1	High	24.16	27.65
					25	Low	23.14	29.15
					25	High	23.17	28.82
					50	Low	23.19	29.04

OUTPUT POWER FOR LTE BAND 2 (15.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power(dBm)	Peak Power(dBm)
					RB Size	RB Offset		
Band 2	15.0 MHz	18675	1857.5	QPSK	1	Low	24.13	28.57
					1	Mid	24.08	28.62
					1	High	24.06	28.62
					36	Low	23.19	29.33
					36	High	23.19	29.35
					75	Low	23.19	30.06
				16QAM	1	Low	24.14	28.58
					1	Mid	24.09	28.64
					1	High	24.07	28.62
					36	Low	23.19	29.32
					36	High	23.18	29.35
					75	Low	23.19	30.13
	15.0 MHz	18900	1880.0	QPSK	1	Low	24.04	28.55
					1	Mid	24.02	28.45
					1	High	24.07	28.32
					36	Low	23.12	29.25
					36	High	23.13	29.09
					75	Low	23.13	30.04
				16QAM	1	Low	24.05	28.56
					1	Mid	24.03	28.46
					1	High	24.07	28.31
					36	Low	23.12	29.26
					36	High	23.14	29.12
					75	Low	23.13	29.99
	15.0 MHz	19125	1902.5	QPSK	1	Low	24.16	28.26
					1	Mid	24.17	28.24
					1	High	24.28	27.70
					36	Low	23.20	29.11
					36	High	23.26	28.83
					75	Low	23.23	29.59
				16QAM	1	Low	24.18	28.26
					1	Mid	24.17	28.23
					1	High	24.28	27.65
					36	Low	23.20	29.11
					36	High	23.26	28.84
					75	Low	23.24	29.59

OUTPUT POWER FOR LTE BAND 2 (20.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power(dBm)	Peak Power(dBm)
					RB Size	RB Offset		
Band 2	20.0 MHz	18700	1860.0	QPSK	1	Low	24.21	28.74
					1	Mid	24.12	28.80
					1	High	24.18	28.80
					50	Low	23.22	29.49
					50	High	24.20	29.46
					100	Low	23.18	29.70
				16QAM	1	Low	24.21	28.74
					1	Mid	24.13	28.79
					1	High	24.18	28.79
					50	Low	23.22	29.46
					50	High	23.20	29.48
					100	Low	23.19	29.68
	20.0 MHz	18900	1880.0	QPSK	1	Low	24.15	28.75
					1	Mid	24.10	28.63
					1	High	24.17	28.47
					50	Low	23.18	29.37
					50	High	24.18	29.19
					100	Low	23.14	29.52
				16QAM	1	Low	24.15	28.78
					1	Mid	24.11	28.65
					1	High	24.18	28.49
					50	Low	23.18	29.42
					50	High	23.18	29.22
					100	Low	23.14	29.62
	20.0 MHz	19100	1900.0	QPSK	1	Low	24.17	28.40
					1	Mid	24.14	28.43
					1	High	24.28	27.82
					50	Low	23.20	29.08
					50	High	24.26	28.99
					100	Low	23.21	29.55
				16QAM	1	Low	24.16	28.37
					1	Mid	24.15	28.40
					1	High	24.29	27.82
					50	Low	23.20	29.09
					50	High	23.26	29.03
					100	Low	23.21	29.54

4.1.3 LTE BAND 4

OUTPUT POWER FOR LTE BAND 4 (1.4MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power(dBm)	Peak Power(dBm)
					RB Size	RB Offset		
Band 4	1.4MHz	19957	1710.7	QPSK	1	Low	24.24	29.07
					1	Mid	24.27	29.08
					1	High	24.22	29.04
					3	Low	24.30	29.40
					3	High	24.28	29.46
					6	Low	23.28	29.55
				16QAM	1	Low	24.23	29.03
					1	Mid	24.27	29.08
					1	High	24.25	29.05
					3	Low	24.33	29.34
					3	High	24.28	29.42
					6	Low	23.29	29.55
	1.4MHz	20175	1732.5	QPSK	1	Low	24.18	29.47
					1	Mid	24.22	29.53
					1	High	24.18	29.49
					3	Low	24.25	29.69
					3	High	24.27	29.76
					6	Low	23.20	29.81
				16QAM	1	Low	24.20	29.31
					1	Mid	24.22	29.39
					1	High	24.21	29.36
					3	Low	24.28	29.67
					3	High	24.27	29.81
					6	Low	23.21	29.74
	1.4MHz	20393	1754.3	QPSK	1	Low	24.08	28.89
					1	Mid	24.16	28.64
					1	High	24.09	28.69
					3	Low	24.19	29.48
					3	High	24.21	29.51
					6	Low	23.10	29.16
				16QAM	1	Low	24.10	28.70
					1	Mid	24.17	28.69
					1	High	24.10	28.71
					3	Low	24.19	29.52
					3	High	24.21	29.49
					6	Low	23.09	29.06

OUTPUT POWER FOR LTE BAND 4 (3.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power(dBm)	Peak Power(dBm)
					RB Size	RB Offset		
Band 4	3.0 MHz	19965	1711.5	QPSK	1	Low	24.24	28.61
					1	Mid	24.26	28.69
					1	High	24.23	28.68
					8	Low	24.21	28.67
					8	High	24.22	28.66
					15	Low	23.32	29.45
				16QAM	1	Low	24.24	28.61
					1	Mid	24.24	28.69
					1	High	24.23	28.69
					8	Low	24.22	28.73
					8	High	24.22	28.74
					15	Low	23.33	29.55
	3.0 MHz	20175	1732.5	QPSK	1	Low	24.17	28.91
					1	Mid	24.19	28.94
					1	High	24.14	28.89
					8	Low	24.14	28.91
					8	High	24.14	28.86
					15	Low	23.27	29.47
				16QAM	1	Low	24.16	28.92
					1	Mid	24.18	28.90
					1	High	24.14	28.88
					8	Low	24.14	28.93
					8	High	24.14	28.91
					15	Low	23.25	29.69
	3.0 MHz	20385	1753.5	QPSK	1	Low	24.10	28.65
					1	Mid	24.13	28.75
					1	High	24.05	28.62
					8	Low	24.07	28.61
					8	High	24.06	28.58
					15	Low	23.18	30.47
				16QAM	1	Low	24.11	28.69
					1	Mid	24.13	28.66
					1	High	24.06	28.54
					8	Low	24.06	28.55
					8	High	24.06	28.66
					15	Low	23.19	30.10

OUTPUT POWER FOR LTE BAND 4 (5.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power(dBm)	Peak Power(dBm)
					RB Size	RB Offset		
Band 4	5.0 MHz	19975	1712.5	QPSK	1	Low	24.33	28.77
					1	Mid	23.69	28.57
					1	High	24.01	28.64
					12	Low	23.02	29.30
					12	High	22.85	29.31
					25	Low	22.93	29.45
				16QAM	1	Low	24.32	28.74
					1	Mid	23.68	28.55
					1	High	24.01	28.73
					12	Low	23.02	29.41
					12	High	22.85	29.42
					25	Low	22.92	29.87
	5.0 MHz	20175	1732.5	QPSK	1	Low	24.25	29.15
					1	Mid	24.26	29.12
					1	High	24.22	29.14
					12	Low	23.31	29.92
					12	High	23.29	29.89
					25	Low	23.25	30.35
				16QAM	1	Low	24.26	29.25
					1	Mid	24.24	29.22
					1	High	24.22	29.15
					12	Low	23.31	29.99
					12	High	23.29	29.88
					25	Low	23.25	30.08
	5.0 MHz	20375	1752.5	QPSK	1	Low	24.23	29.04
					1	Mid	23.78	28.82
					1	High	24.14	28.70
					12	Low	22.89	29.38
					12	High	22.92	29.36
					25	Low	22.86	29.58
				16QAM	1	Low	24.23	28.84
					1	Mid	23.70	28.57
					1	High	24.08	28.68
					12	Low	22.86	29.35
					12	High	22.89	29.36
					25	Low	22.82	29.84

OUTPUT POWER FOR LTE BAND 4 (10.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power(dBm)	Peak Power(dBm)
					RB Size	RB Offset		
Band 4	10.0 MHz	20000	1715.0	QPSK	1	Low	23.87	28.33
					1	Mid	23.65	28.33
					1	High	23.56	28.44
					25	Low	22.89	29.11
					25	High	22.82	29.27
					50	Low	22.89	29.37
				16QAM	1	Low	23.77	28.36
					1	Mid	23.62	28.31
					1	High	23.53	28.45
					25	Low	22.84	29.11
					25	High	22.77	29.14
					50	Low	22.84	29.25
	10.0 MHz	20175	1732.5	QPSK	1	Low	24.22	29.07
					1	Mid	24.23	29.02
					1	High	24.12	28.85
					25	Low	23.23	29.56
					25	High	23.25	29.49
					50	Low	23.24	29.67
				16QAM	1	Low	24.19	29.07
					1	Mid	24.21	29.02
					1	High	24.17	28.89
					25	Low	23.24	29.59
					25	High	23.23	29.52
					50	Low	23.24	29.67
	10.0 MHz	20350	1750.0	QPSK	1	Low	23.80	28.79
					1	Mid	23.67	28.72
					1	High	23.55	28.64
					25	Low	22.80	29.67
					25	High	22.73	29.57
					50	Low	22.80	29.17
				16QAM	1	Low	23.70	28.73
					1	Mid	23.62	28.69
					1	High	23.51	28.63
					25	Low	22.78	29.67
					25	High	22.71	29.55
					50	Low	22.80	29.21

OUTPUT POWER FOR LTE BAND 4 (15.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power(dBm)	Peak Power(dBm)
					RB Size	RB Offset		
Band 4	15.0 MHz	20025	1717.5	QPSK	1	Low	24.01	28.58
					1	Mid	23.78	28.64
					1	High	24.23	29.12
					36	Low	22.90	29.17
					36	High	23.05	29.47
					75	Low	22.98	30.11
				16QAM	1	Low	23.87	28.46
					1	Mid	23.72	28.62
					1	High	24.18	29.07
					36	Low	22.87	29.16
					36	High	23.04	29.43
					75	Low	22.98	30.08
	15.0 MHz	20175	1732.5	QPSK	1	Low	24.24	29.12
					1	Mid	24.24	29.04
					1	High	24.22	28.86
					36	Low	23.27	29.60
					36	High	23.28	29.51
					75	Low	23.28	30.34
				16QAM	1	Low	24.24	29.12
					1	Mid	24.24	29.02
					1	High	24.23	28.86
					36	Low	23.28	29.62
					36	High	23.27	29.49
					75	Low	23.28	30.31
	15.0 MHz	20325	1747.5	QPSK	1	Low	24.21	28.86
					1	Mid	23.63	28.58
					1	High	23.80	28.63
					36	Low	23.01	29.48
					36	High	22.74	29.43
					75	Low	22.92	29.68
				16QAM	1	Low	24.22	28.83
					1	Mid	23.57	28.51
					1	High	23.74	28.58
					36	Low	22.97	29.47
					36	High	22.71	29.38
					75	Low	22.87	29.67

OUTPUT POWER FOR LTE BAND 4 (20.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power(dBm)	Peak Power(dBm)
					RB Size	RB Offset		
Band 4	20.0 MHz	20050	1720.0	QPSK	1	Low	24.01	28.79
					1	Mid	23.81	28.98
					1	High	24.35	29.39
					50	Low	23.86	29.33
					50	High	24.28	29.86
					100	Low	23.11	29.72
				16QAM	1	Low	23.87	28.68
					1	Mid	23.76	28.95
					1	High	24.36	29.41
					50	Low	22.82	29.31
					50	High	23.25	29.74
					100	Low	23.08	29.77
	20.0 MHz	20175	1732.5	QPSK	1	Low	24.23	29.25
					1	Mid	24.26	29.28
					1	High	24.07	29.05
					50	Low	23.27	29.79
					50	High	24.27	29.64
					100	Low	23.26	29.79
				16QAM	1	Low	24.22	29.28
					1	Mid	24.26	29.23
					1	High	24.07	29.05
					50	Low	23.27	29.76
					50	High	23.28	29.60
					100	Low	23.27	29.77
	20.0 MHz	20300	1745.0	QPSK	1	Low	24.23	29.13
					1	Mid	23.61	28.79
					1	High	24.19	28.80
					50	Low	23.18	29.56
					50	High	24.14	29.29
					100	Low	23.01	29.80
				16QAM	1	Low	24.22	29.12
					1	Mid	23.58	28.76
					1	High	23.67	28.82
					50	Low	23.17	29.51
					50	High	22.63	29.34
					100	Low	23.00	29.92

4.1.4 LTE BAND 7

OUTPUT POWER FOR LTE BAND 7 (5.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Peak Power(dBm)	Average Power(dBm)
					RB Size	RB Offset		
Band 7	5.0MHz	20775	2502.5	QPSK	1	Low	24.01	27.48
					1	Mid	23.88	27.44
					1	High	24.06	27.52
					12	Low	22.98	28.12
					12	High	23.00	28.27
					25	Low	22.92	28.91
				16QAM	1	Low	24.04	27.31
					1	Mid	23.57	27.23
					1	High	23.97	27.45
					12	Low	22.85	28.00
					12	High	22.90	28.21
					25	Low	22.84	28.81
	5.0MHz	21100	2535.0	QPSK	1	Low	23.26	27.07
					1	Mid	22.95	27.00
					1	High	23.40	27.22
					12	Low	22.12	27.86
					12	High	22.34	28.02
					25	Low	22.22	28.47
				16QAM	1	Low	23.17	27.03
					1	Mid	22.92	27.04
					1	High	23.38	27.20
					12	Low	22.09	27.63
					12	High	22.32	27.90
					25	Low	22.20	28.24
	5.0MHz	21425	2567.5	QPSK	1	Low	23.13	26.76
					1	Mid	22.91	26.73
					1	High	23.50	26.84
					12	Low	22.02	27.18
					12	High	22.36	27.40
					25	Low	22.14	28.26
				16QAM	1	Low	23.04	26.72
					1	Mid	22.87	26.72
					1	High	23.49	26.82
					12	Low	22.01	27.10
					12	High	22.35	27.32
					25	Low	22.14	28.11

OUTPUT POWER FOR LTE BAND 7 (10.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Peak Power(dBm)	Average Power(dBm)
					RB Size	RB Offset		
Band 7	10.0 MHz	20800	2505.0	QPSK	1	Low	23.63	27.17
					1	Mid	23.47	27.18
					1	High	23.20	27.04
					25	Low	22.78	27.91
					25	High	22.63	27.92
					50	Low	22.76	28.30
				16QAM	1	Low	23.51	27.07
					1	Mid	23.48	27.18
					1	High	23.22	27.07
					25	Low	22.78	27.94
					25	High	22.65	27.92
					50	Low	22.78	28.40
	10.0 MHz	21100	2535.0	QPSK	1	Low	22.77	26.81
					1	Mid	23.00	26.98
					1	High	23.05	27.09
					25	Low	22.04	27.63
					25	High	22.26	27.85
					50	Low	22.21	28.06
				16QAM	1	Low	22.67	26.75
					1	Mid	22.97	26.96
					1	High	23.03	27.09
					25	Low	22.02	27.58
					25	High	22.24	27.83
					50	Low	22.20	28.04
	10.0 MHz	21400	2565.0	QPSK	1	Low	22.56	26.48
					1	Mid	22.76	26.55
					1	High	23.07	26.65
					25	Low	21.89	27.49
					25	High	22.15	27.47
					50	Low	22.04	27.76
				16QAM	1	Low	22.51	26.47
					1	Mid	22.76	26.56
					1	High	23.06	26.65
					25	Low	21.88	27.45
					25	High	22.14	27.58
					50	Low	22.04	27.78

OUTPUT POWER FOR LTE BAND 7 (15.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Peak Power(dBm)	Average Power(dBm)
					RB Size	RB Offset		
Band 7	15.0 MHz	20825	2507.5	QPSK	1	Low	23.78	27.28
					1	Mid	23.32	27.14
					1	High	22.83	26.84
					36	Low	22.74	27.92
					36	High	22.46	27.73
					75	Low	22.64	28.72
				16QAM	1	Low	23.67	27.19
					1	Mid	23.32	27.11
					1	High	22.84	26.83
					36	Low	22.75	27.96
					36	High	22.47	27.79
					75	Low	22.65	28.74
	15.0 MHz	21100	2535.0	QPSK	1	Low	22.95	26.91
					1	Mid	23.03	27.01
					1	High	23.38	27.31
					36	Low	22.06	27.69
					36	High	22.40	27.96
					75	Low	22.22	28.76
				16QAM	1	Low	22.81	26.80
					1	Mid	22.97	26.98
					1	High	23.33	27.27
					36	Low	22.03	27.65
					36	High	22.38	27.92
					75	Low	22.21	28.68
	15.0 MHz	21375	2562.5	QPSK	1	Low	22.70	26.58
					1	Mid	22.79	26.56
					1	High	23.22	26.67
					36	Low	21.78	27.37
					36	High	22.18	27.47
					75	Low	21.99	28.19
				16QAM	1	Low	22.69	26.60
					1	Mid	22.77	26.58
					1	High	23.24	26.67
					36	Low	21.80	27.39
					36	High	22.18	27.46
					75	Low	22.00	28.23

OUTPUT POWER FOR LTE BAND 7 (20.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Peak Power(dBm)	Average Power(dBm)
					RB Size	RB Offset		
Band 7	20.0 MHz	20850	2510.0	QPSK	1	Low	24.17	27.43
					1	Mid	23.29	27.25
					1	High	22.87	27.10
					50	Low	23.13	28.01
					50	High	22.24	27.69
					100	Low	22.54	28.20
				16QAM	1	Low	23.71	27.32
					1	Mid	23.28	27.27
					1	High	22.88	27.10
					50	Low	22.74	28.03
					50	High	22.23	27.74
					100	Low	22.53	28.24
	20.0 MHz	21100	2535.0	QPSK	1	Low	23.86	26.98
					1	Mid	23.04	27.09
					1	High	23.39	27.44
					50	Low	22.94	27.71
					50	High	22.42	28.01
					100	Low	22.25	28.25
				16QAM	1	Low	22.70	26.90
					1	Mid	23.03	27.16
					1	High	23.36	27.42
					50	Low	22.02	27.72
					50	High	22.41	28.07
					100	Low	22.23	28.36
	20.0 MHz	21350	2560.0	QPSK	1	Low	23.88	26.97
					1	Mid	22.69	26.68
					1	High	23.17	26.78
					50	Low	22.91	27.45
					50	High	22.17	27.49
					100	Low	22.10	28.20
				16QAM	1	Low	22.89	26.96
					1	Mid	22.73	26.70
					1	High	23.21	26.83
					50	Low	21.93	27.46
					50	High	22.19	27.45
					100	Low	22.09	28.11

4.1.5 LTE BAND 17

OUTPUT POWER FOR LTE BAND 17 (5.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Peak Power(dBm)	Average Power(dBm)
					RB Size	RB Offset		
Band 17	5.0MHz	23755	706.5	QPSK	1	Low	24.57	28.71
					1	Mid	24.61	28.72
					1	High	24.54	28.89
					12	Low	23.63	29.41
					12	High	23.63	29.53
					25	Low	23.57	29.80
				16QAM	1	Low	24.59	28.67
					1	Mid	24.62	28.69
					1	High	24.54	28.87
					12	Low	23.64	29.39
					12	High	23.64	29.53
					25	Low	23.57	30.10
	5.0MHz	23790	710.0	QPSK	1	Low	24.56	28.83
					1	Mid	24.56	28.83
					1	High	24.57	28.63
					12	Low	23.63	29.50
					12	High	23.64	29.41
					25	Low	23.57	29.99
				16QAM	1	Low	24.51	28.83
					1	Mid	24.56	28.81
					1	High	24.57	28.62
					12	Low	23.64	29.62
					12	High	23.63	29.43
					25	Low	23.57	29.80
	5.0MHz	23825	713.5	QPSK	1	Low	24.63	28.89
					1	Mid	24.63	28.76
					1	High	24.58	28.67
					12	Low	23.66	29.28
					12	High	23.64	29.11
					25	Low	23.59	29.68
				16QAM	1	Low	24.62	28.90
					1	Mid	24.63	28.75
					1	High	24.58	28.66
					12	Low	23.67	29.33
					12	High	23.64	29.11
					25	Low	23.58	29.73

OUTPUT POWER FOR LTE BAND 17 (10.0MHZ)

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Peak Power(dBm)	Average Power(dBm)
					RB Size	RB Offset		
Band 17	10.0 MHz	23780	709.0	QPSK	1	Low	24.52	28.62
					1	Mid	24.56	28.85
					1	High	24.58	28.54
					25	Low	23.61	29.39
					25	High	23.62	29.35
					50	Low	23.65	29.71
				16QAM	1	Low	24.55	28.57
					1	Mid	24.56	28.84
					1	High	24.57	28.52
					25	Low	23.61	29.38
					25	High	23.61	29.37
					50	Low	23.64	29.67
	10.0 MHz	23790	710.0	QPSK	1	Low	24.58	28.59
					1	Mid	24.57	28.79
					1	High	24.59	28.46
					25	Low	23.57	29.36
					25	High	23.61	29.26
					50	Low	23.64	29.71
				16QAM	1	Low	24.56	28.57
					1	Mid	24.58	28.77
					1	High	24.60	28.46
					25	Low	23.58	29.40
					25	High	23.61	29.28
					50	Low	23.63	29.70
	10.0 MHz	23800	711.0	QPSK	1	Low	24.60	28.74
					1	Mid	24.63	28.82
					1	High	24.60	28.53
					25	Low	23.60	29.61
					25	High	23.63	29.35
					50	Low	23.63	29.31
				16QAM	1	Low	24.63	28.73
					1	Mid	24.62	28.78
					1	High	24.60	28.53
					25	Low	23.61	29.49
					25	High	23.62	29.28
					50	Low	23.64	29.56

5. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

MODES TESTED

LTE Band 2
LTE Band 4
LTE Band 7
LTE Band 17

RESULTS

Test results:

Band	Mode	RB Size/RB Offset	Frequency (MHz)	99% Occupied Bandwidth (MHz)	-26dBc Occupied Bandwidth (MHz)
LTE Band 2	1.4MHz BAND QPSK	6/0	1880.0	1.09	1.27
	1.4MHz BAND 16QAM	6/0	1880.0	1.09	1.26
	3.0MHz BAND QPSK	15/0	1880.0	2.75	3.05
	3.0MHz BAND 16QAM	15/0	1880.0	2.76	3.04
	5.0MHz BAND QPSK	25/0	1880.0	4.52	4.98
	5.0MHz BAND 16QAM	25/0	1880.0	4.53	5.00
	10.0MHz BAND QPSK	50/0	1880.0	9.05	10.07
	10.0MHz BAND 16QAM	50/0	1880.0	9.06	10.16
	15.0MHz BAND QPSK	75/0	1880.0	13.44	14.53
	15.0MHz BAND 16QAM	75/0	1880.0	13.44	14.44
	20.0MHz BAND QPSK	100/0	1880.0	18.33	20.32
	20.0MHz BAND 16QAM	100/0	1880.0	18.40	20.36

Band	Mode	RB Size/RB Offset	Frequency (MHz)	99% Occupied Bandwidth (MHz)	-26dBc Occupied Bandwidth (MHz)
LTE Band 4	1.4MHz BAND QPSK	6/0	1732.5	1.09	1.26
	1.4MHz BAND 16QAM	6/0	1732.5	1.09	1.26
	3.0MHz BAND QPSK	15/0	1732.5	2.74	3.01
	3.0MHz BAND 16QAM	15/0	1732.5	2.73	3.03
	5.0MHz BAND QPSK	25/0	1732.5	4.53	5.02
	5.0MHz BAND 16QAM	25/0	1732.5	4.54	4.99
	10.0MHz BAND QPSK	50/0	1732.5	9.02	10.07
	10.0MHz BAND 16QAM	50/0	1732.5	9.03	10.01
	15.0MHz BAND QPSK	75/0	1732.5	13.47	14.71
	15.0MHz BAND 16QAM	75/0	1732.5	13.48	14.62
	20.0MHz BAND QPSK	100/0	1732.5	18.31	20.26
	20.0MHz BAND 16QAM	100/0	1732.5	18.24	20.28

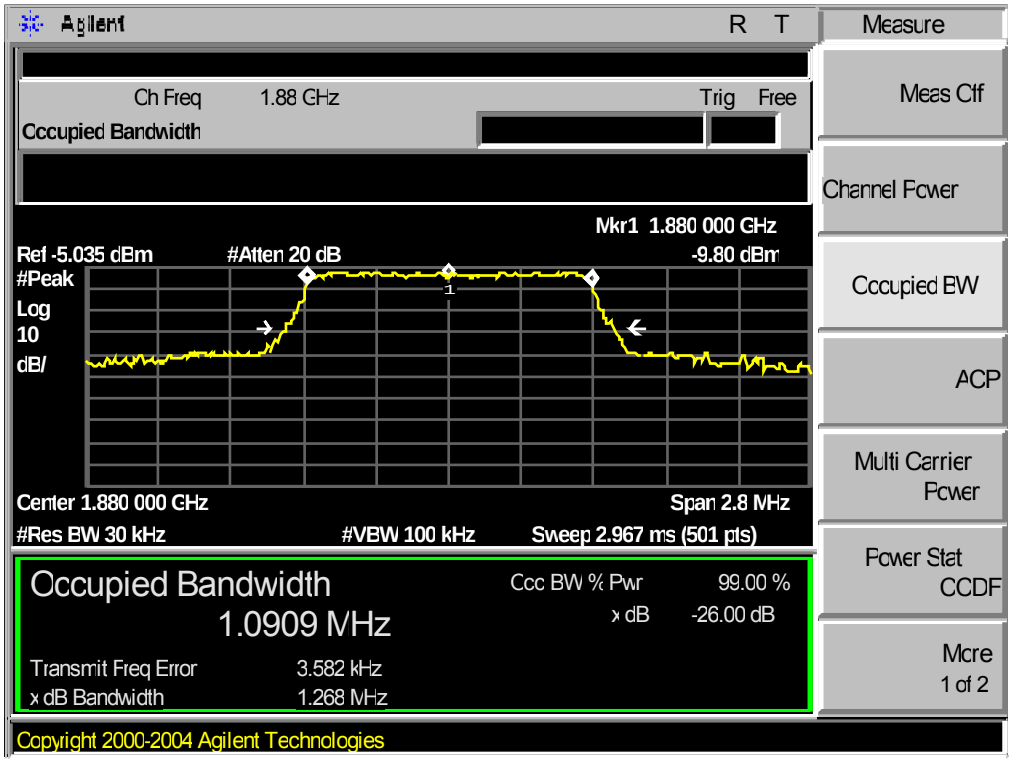
Band	Mode	RB Size/RB Offset	Frequency (MHz)	99% Occupied Bandwidth (MHz)	-26dBc Occupied Bandwidth (MHz)
LTE Band 7	5.0MHz BAND QPSK	25/0	21100	4.53	4.95
	5.0MHz BAND 16QAM	25/0	21100	4.52	4.99
	10.0MHz BAND QPSK	50/0	21100	9.03	9.86
	10.0MHz BAND 16QAM	50/0	21100	9.05	9.94
	15.0MHz BAND QPSK	75/0	21100	13.47	14.63
	15.0MHz BAND 16QAM	75/0	21100	13.47	14.92
	20.0MHz BAND QPSK	100/0	21100	18.44	20.42
	20.0MHz BAND 16QAM	100/0	21100	18.42	20.36

Band	Mode	RB Size/RB Offset	Frequency (MHz)	99% Occupied Bandwidth (MHz)	-26dBc Occupied Bandwidth (MHz)
LTE Band 17	5.0MHz BAND QPSK	25/0	23790	4.51	5.03
	5.0MHz BAND 16QAM	25/0	23790	4.52	5.02
	10.0MHz BAND QPSK	50/0	23790	9.04	10.18
	10.0MHz BAND 16QAM	50/0	23790	9.09	10.04

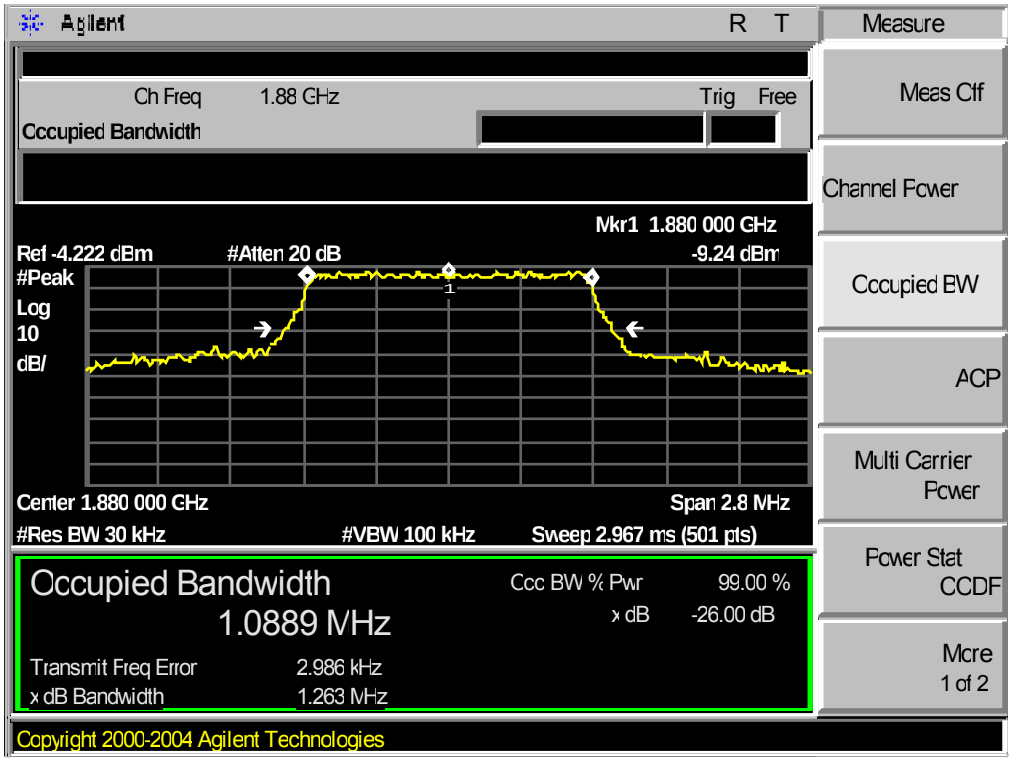
Note: Test was measured at the High, Mid, and low channels, but only the mid channel is reported, which is the worst case mode.

5.1.1. LTE BAND 2

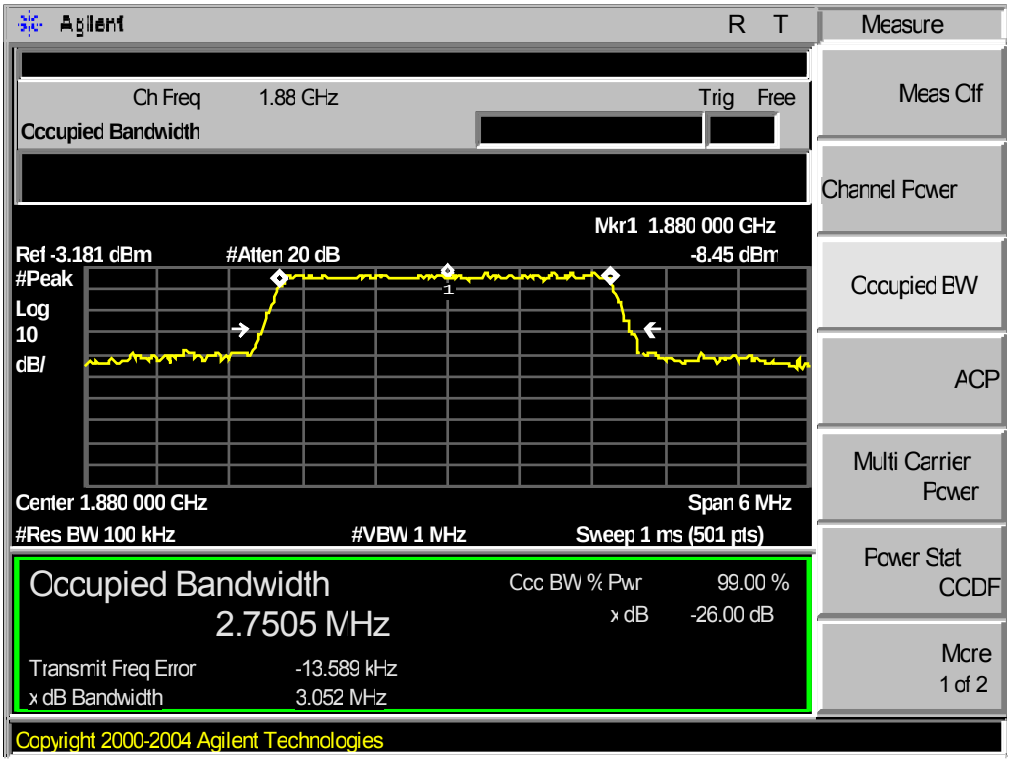
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 1.4,NO. RB 6,RB POS. Low,QPSK



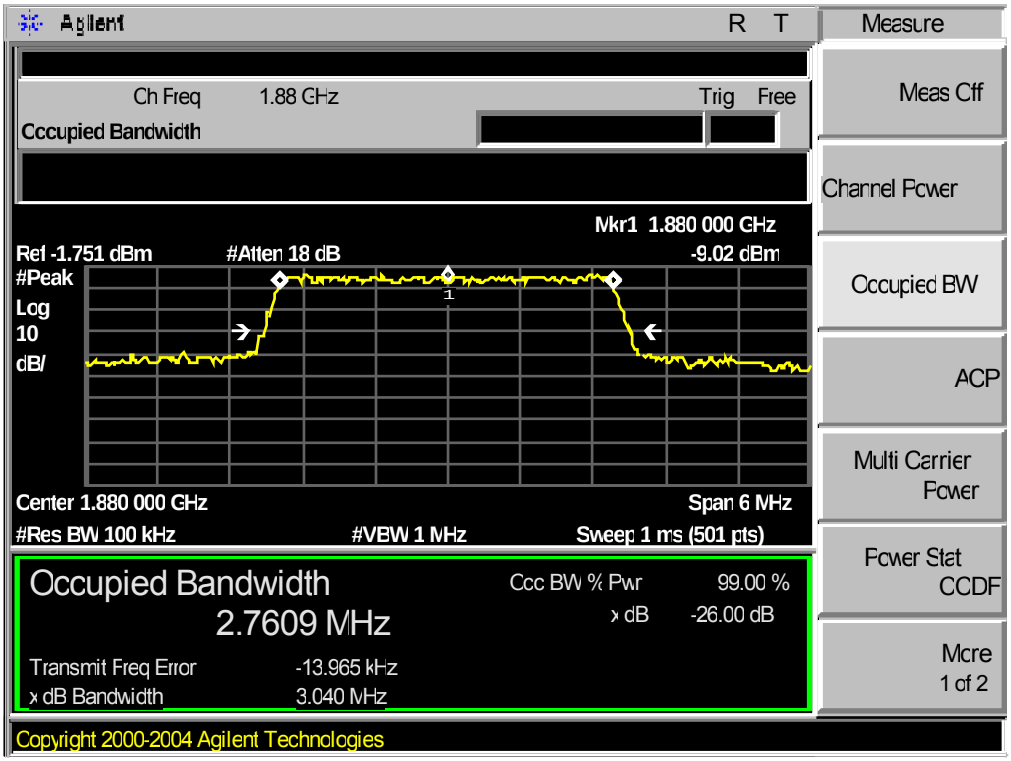
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 1.4,NO. RB 6,RB POS. Low,16QAM



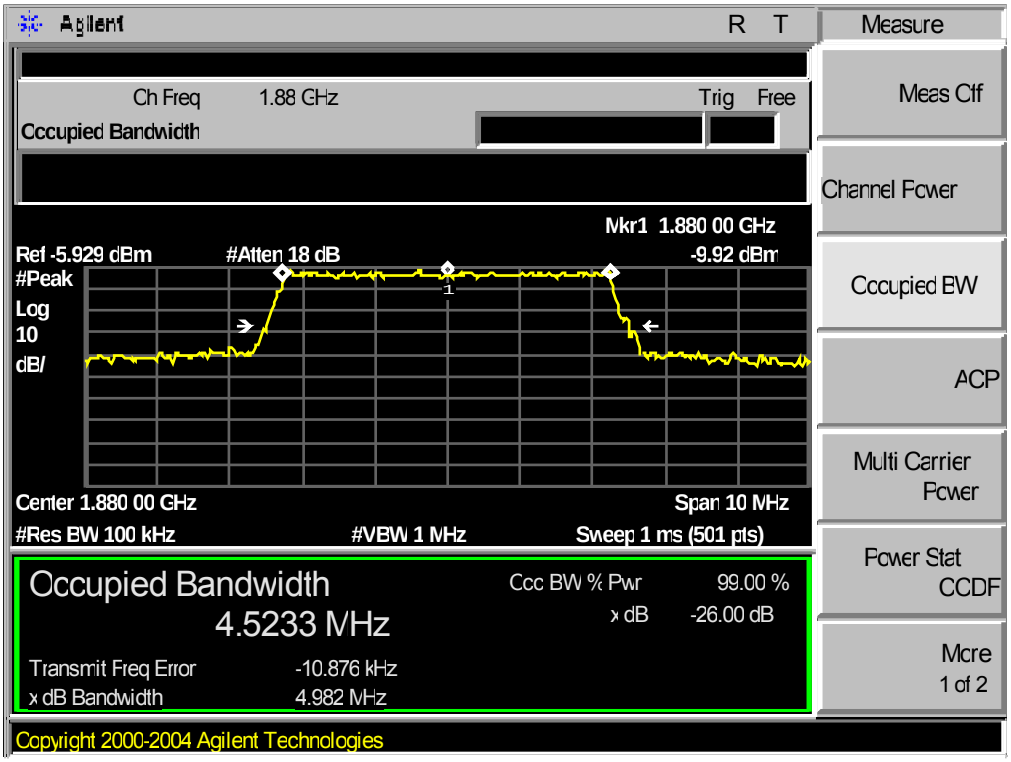
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 3.0,NO. RB 15,RB POS. Low,QPSK



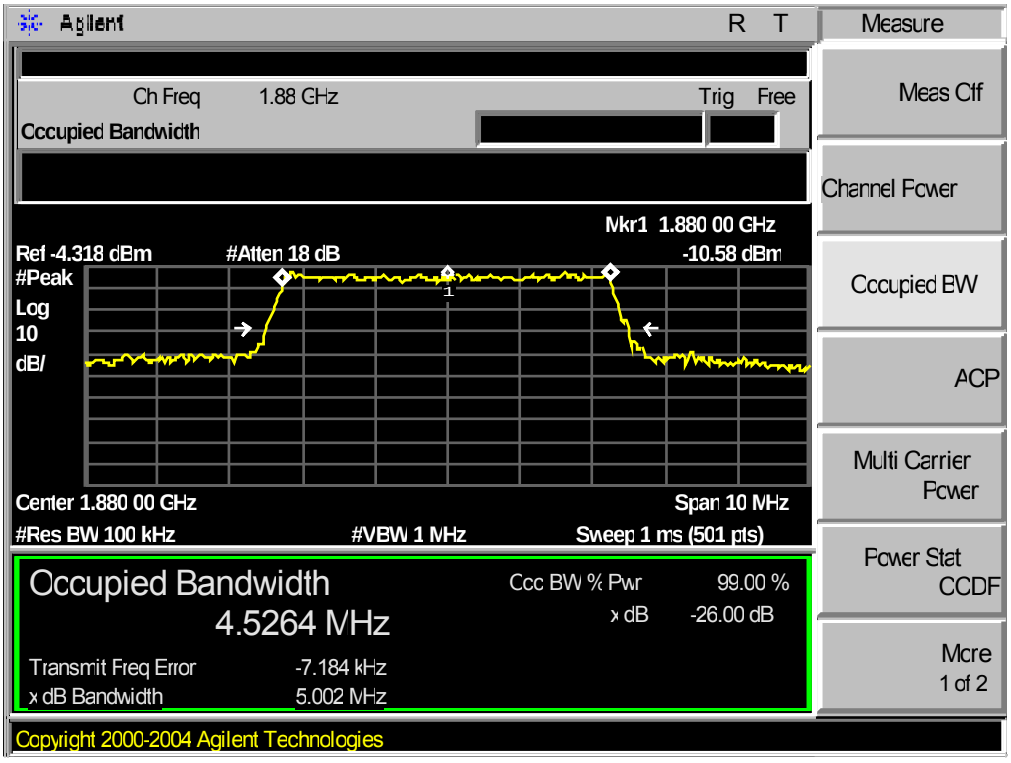
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 3.0,NO. RB 15,RB POS. Low,16QAM



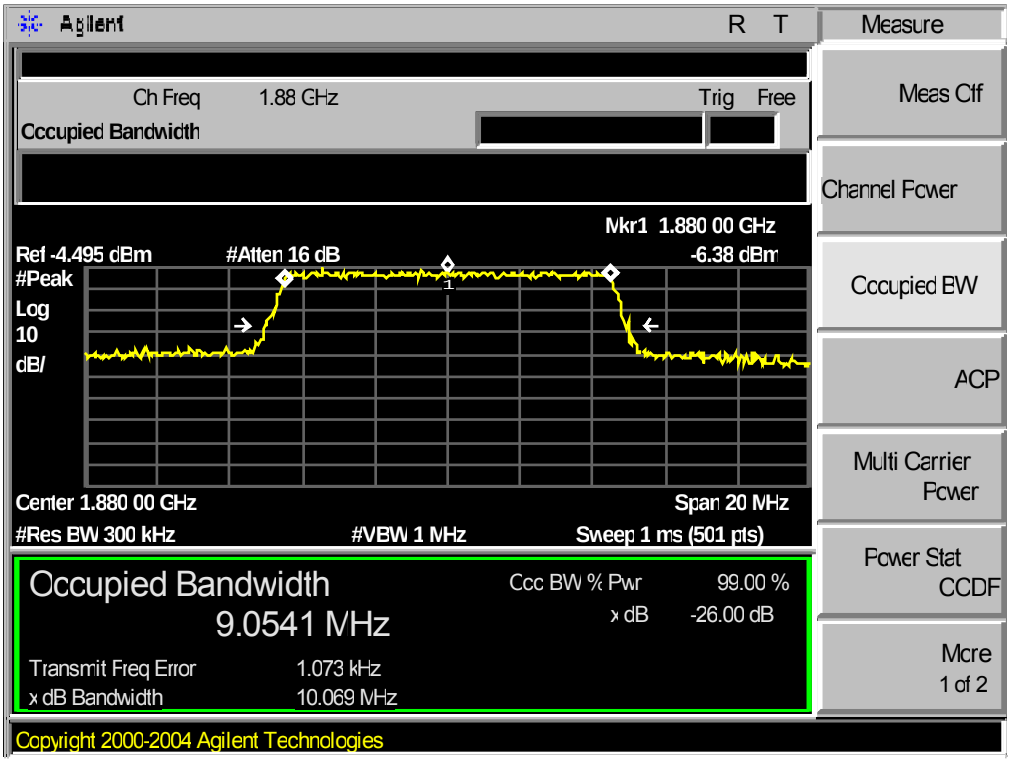
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 5.0,NO. RB 25,RB POS. Low,QPSK



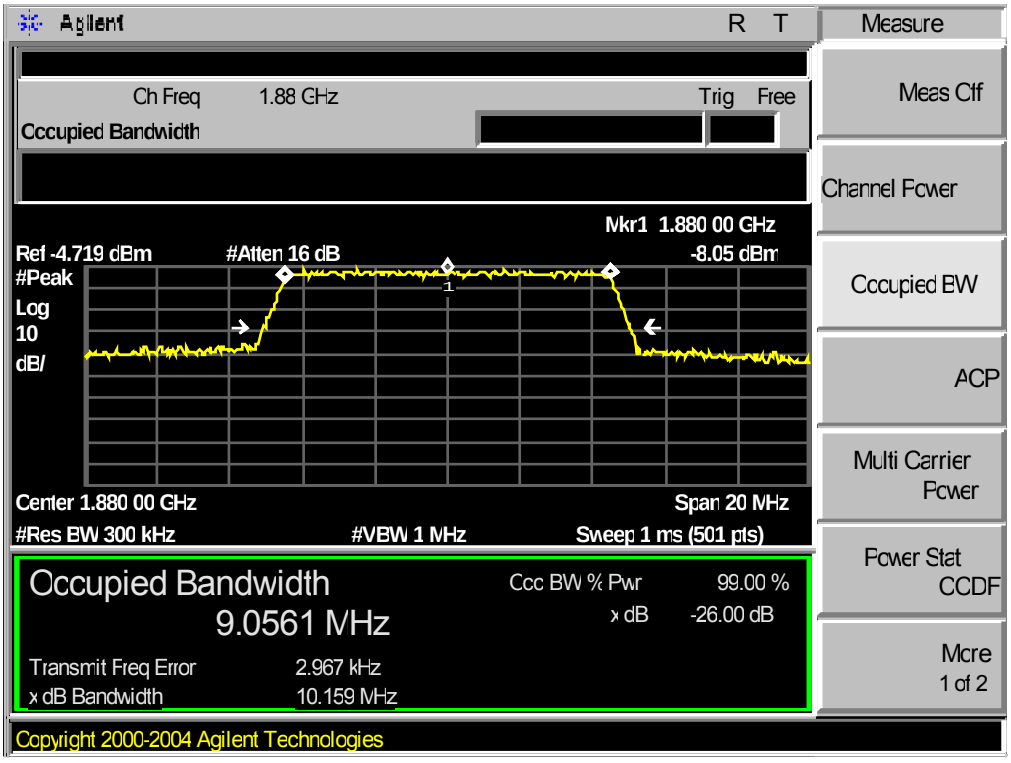
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 5.0,NO. RB 25,RB POS. Low,16QAM



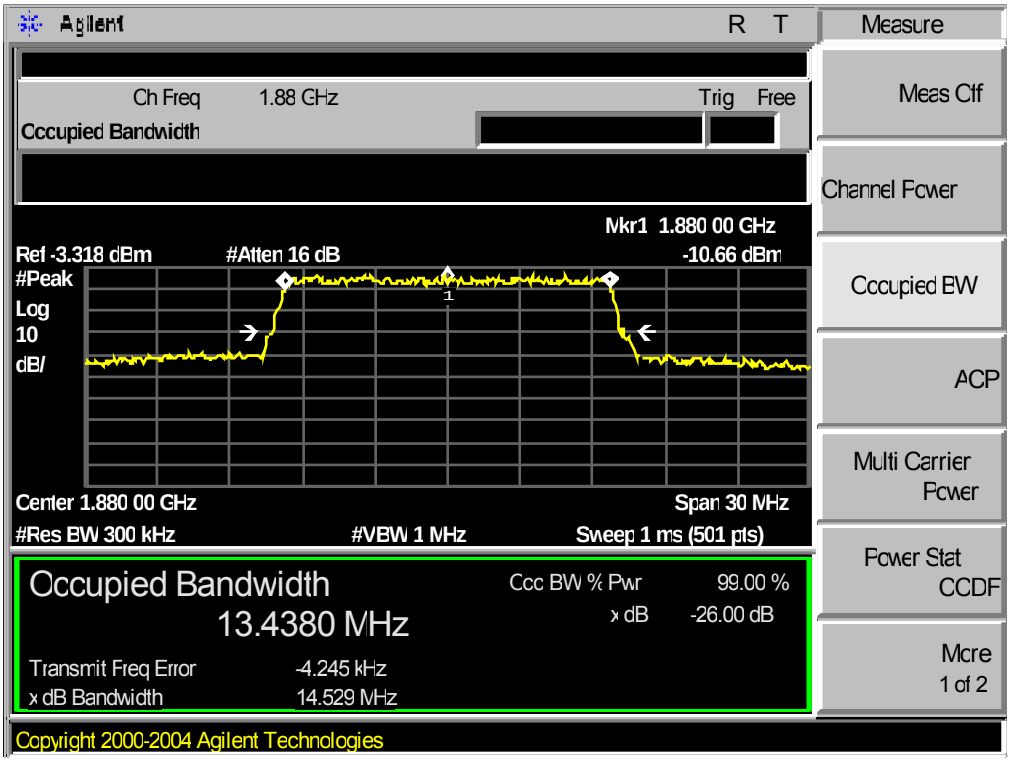
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



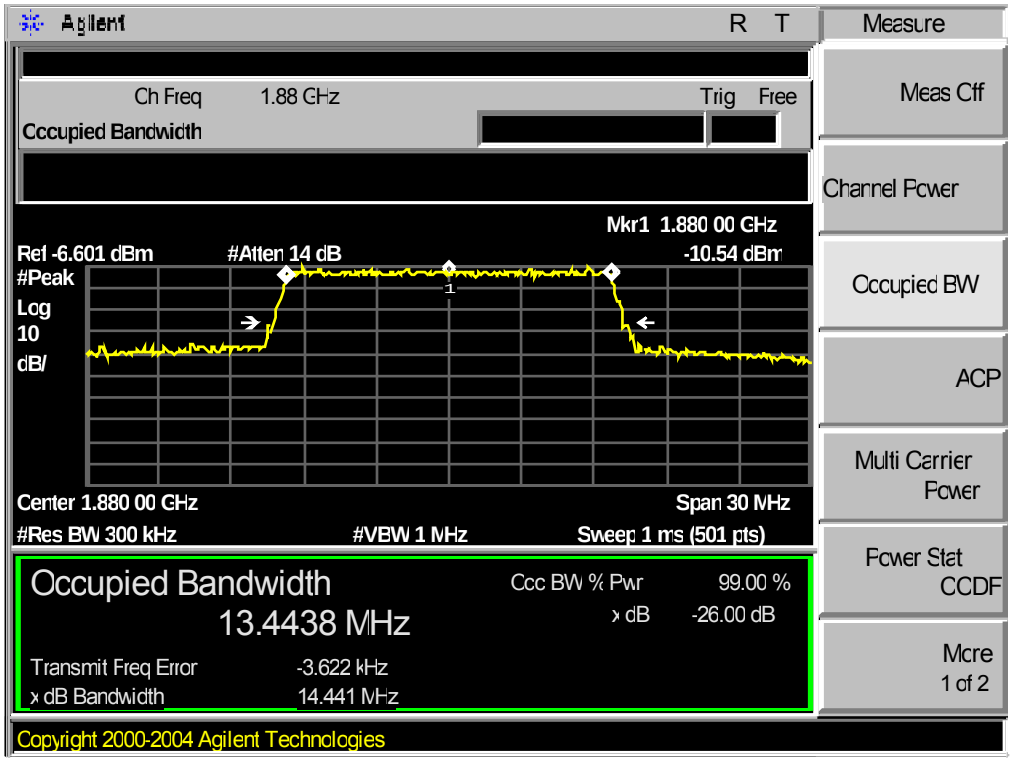
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



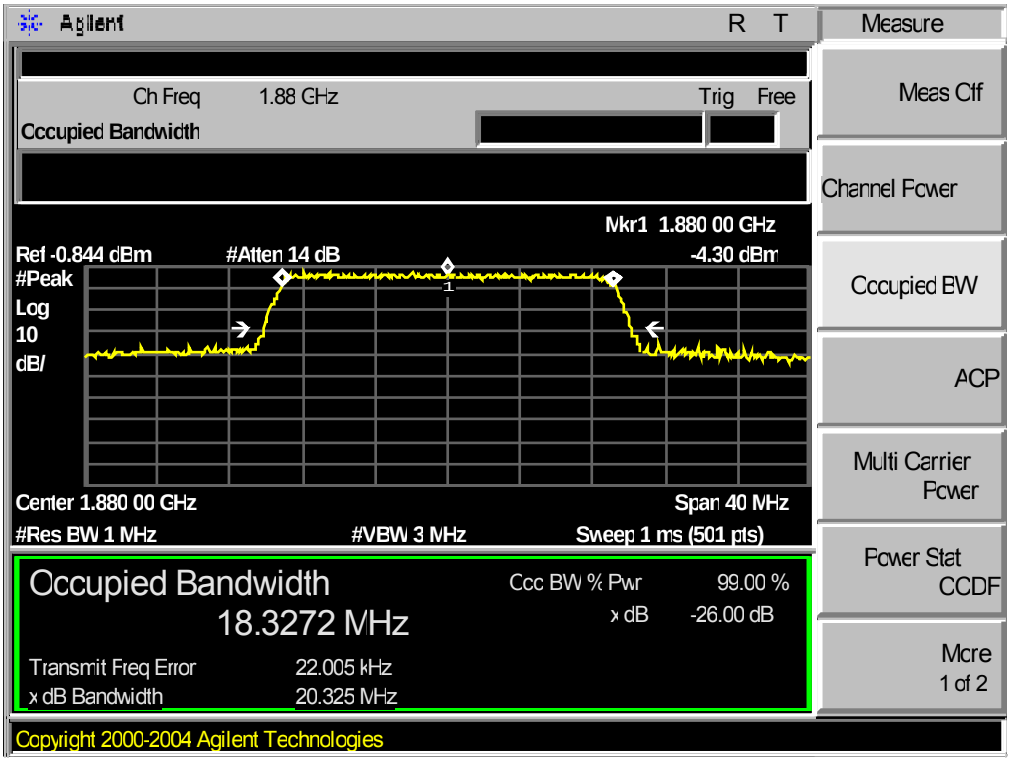
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 15.0,NO. RB 75,RB POS. Low,QPSK



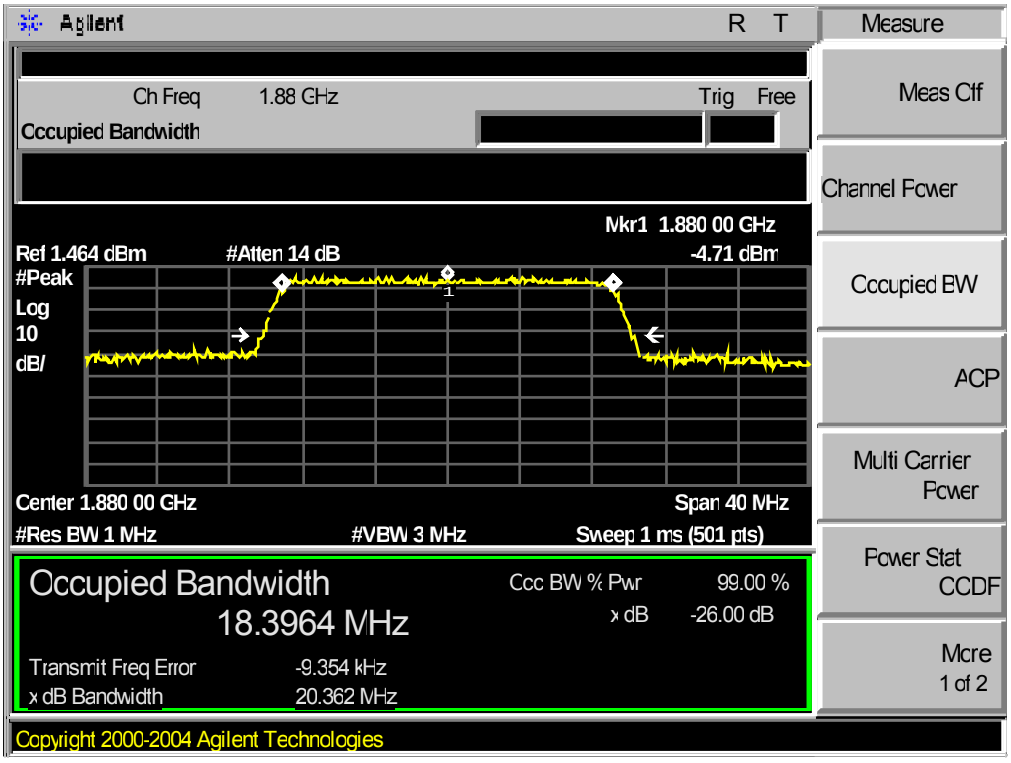
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 15.0,NO. RB 75,RB POS. Low,16QAM



Band 2,UL Channel 18900,UL Frequency 1880.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK

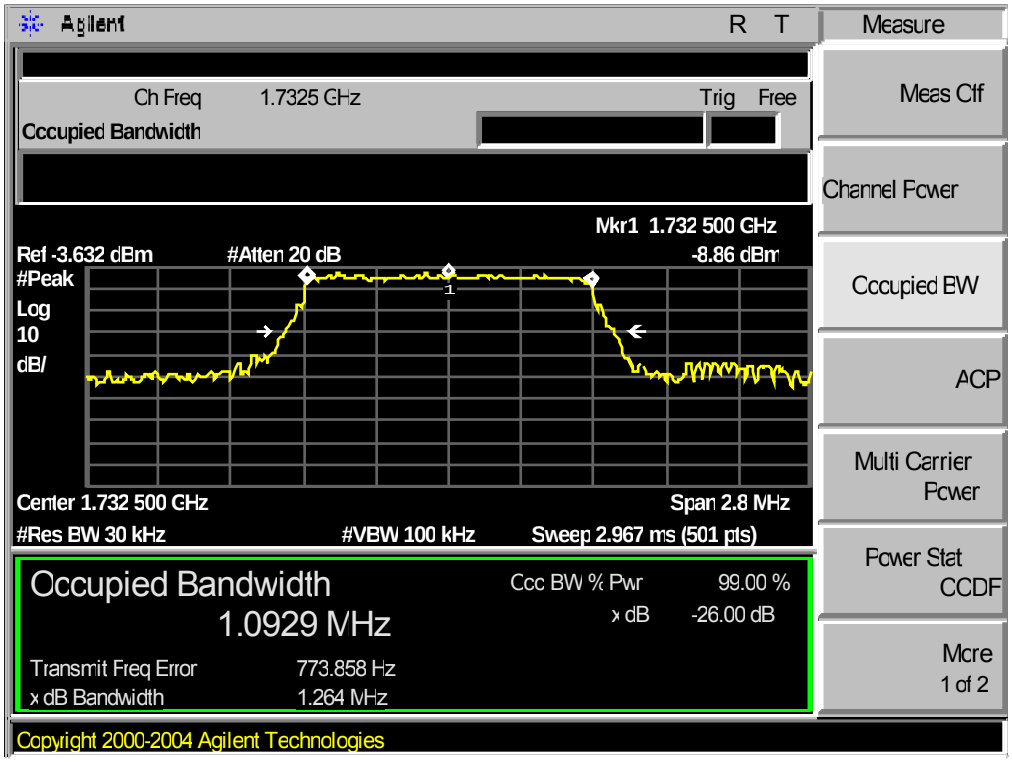


Band 2,UL Channel 18900,UL Frequency 1880.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM

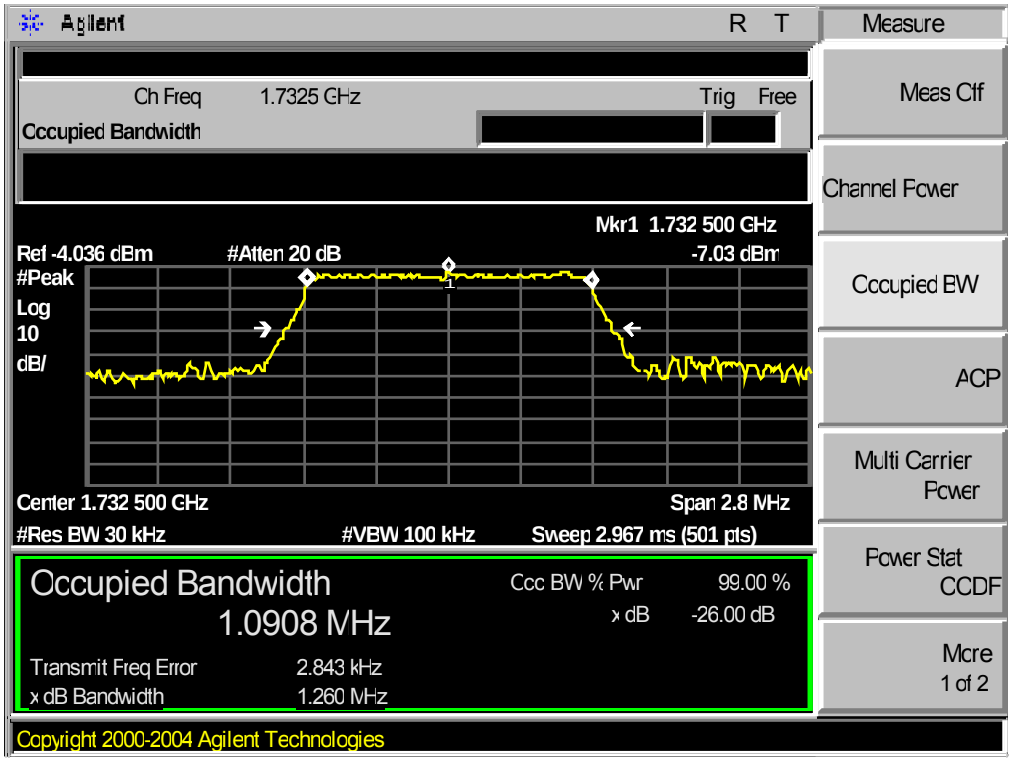


5.1.2. LTE BAND 4

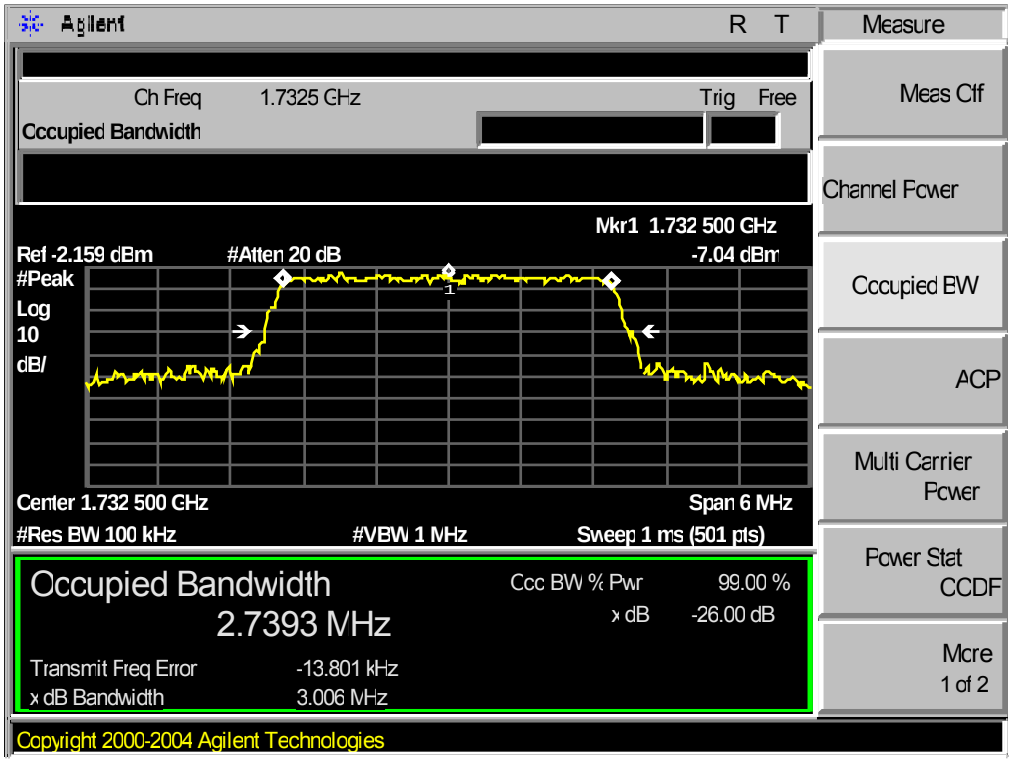
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 1.4,NO. RB 6,RB POS. Low,QPSK



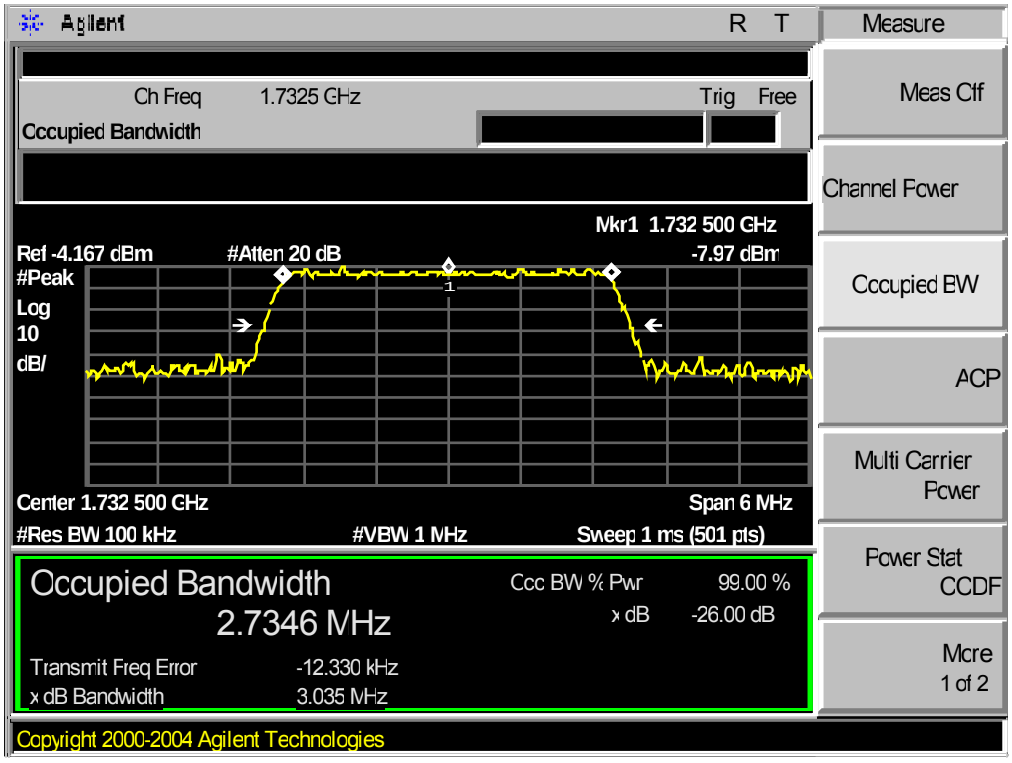
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 1.4,NO. RB 6,RB POS. Low,16QAM



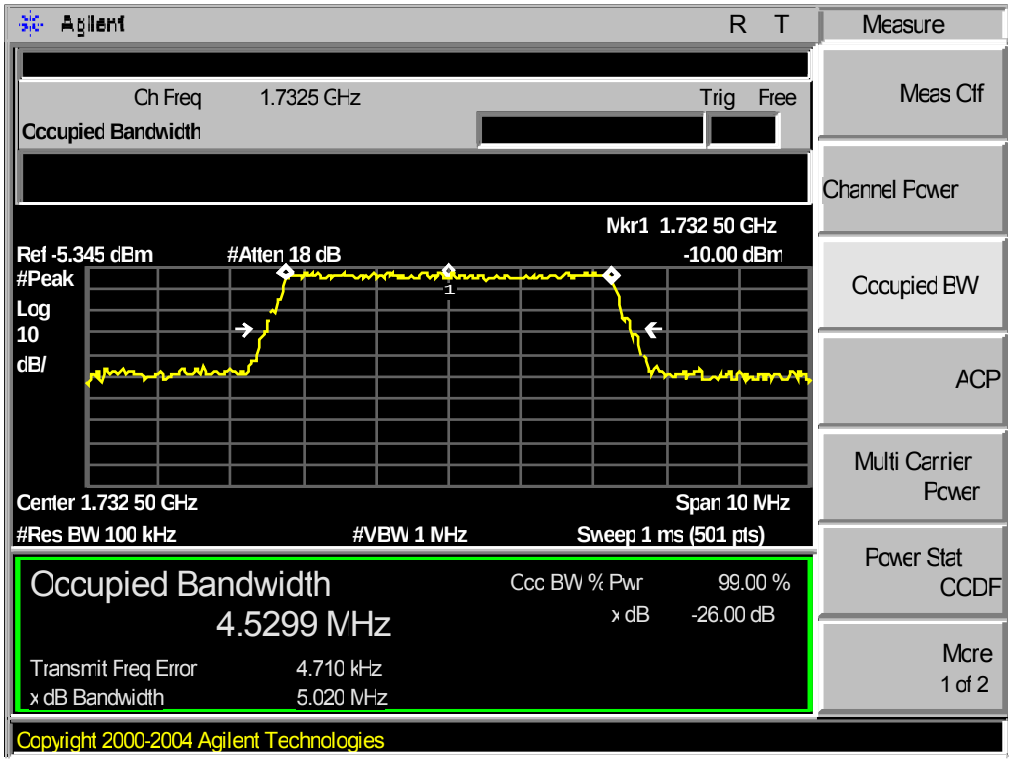
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



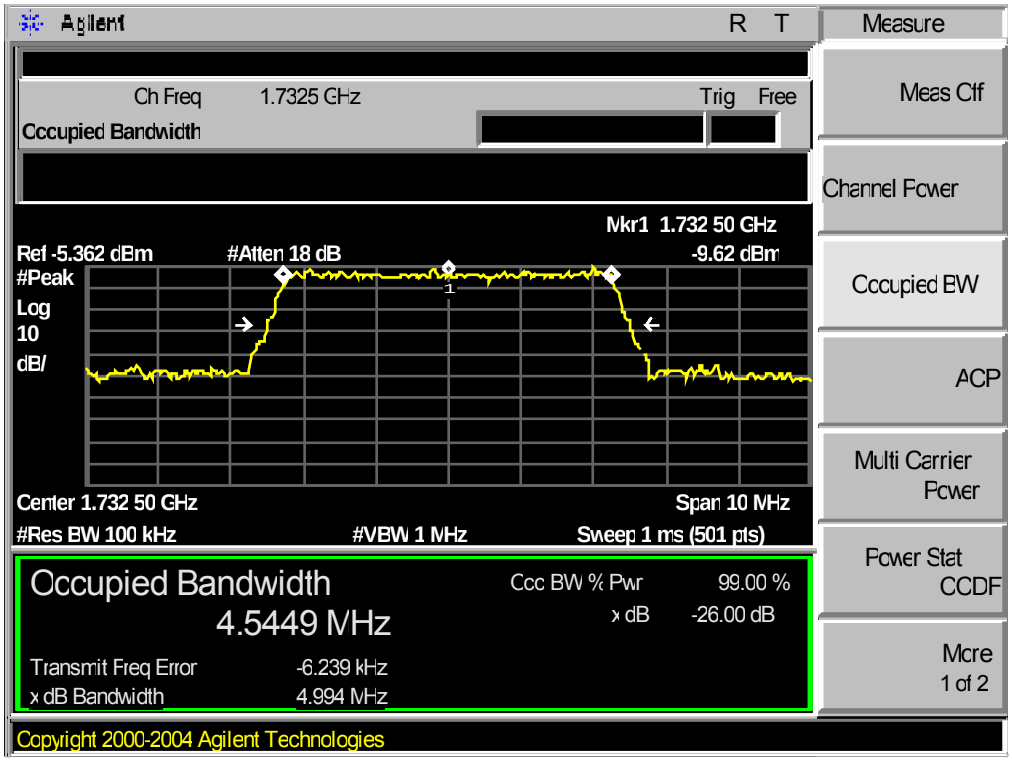
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM



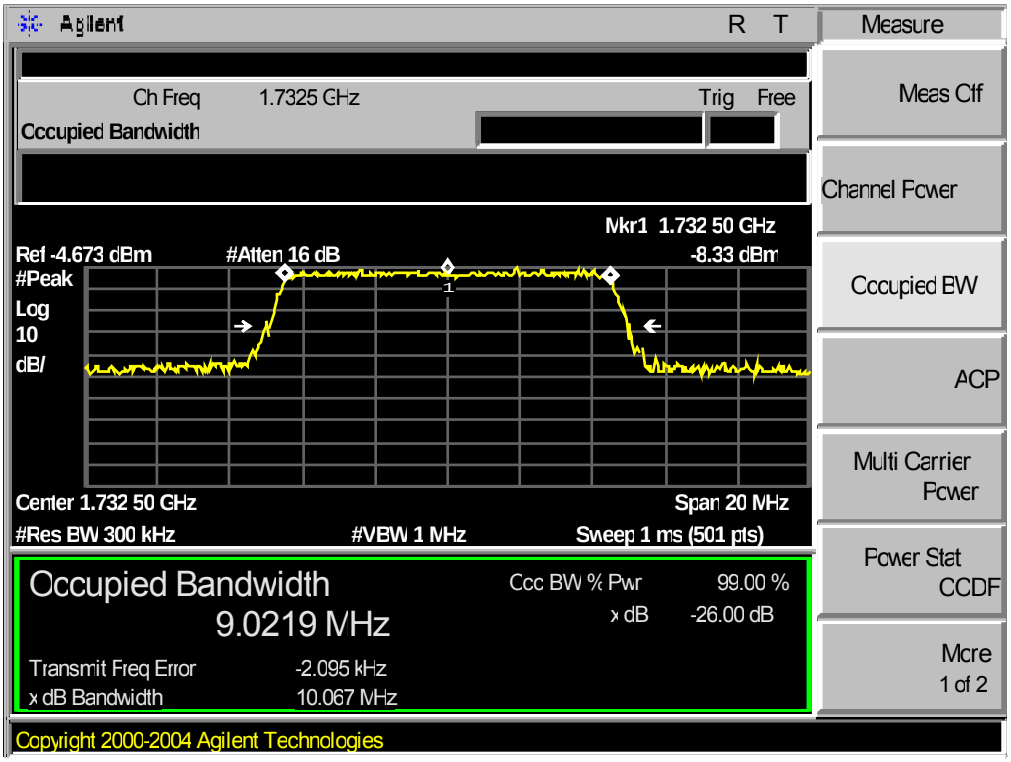
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



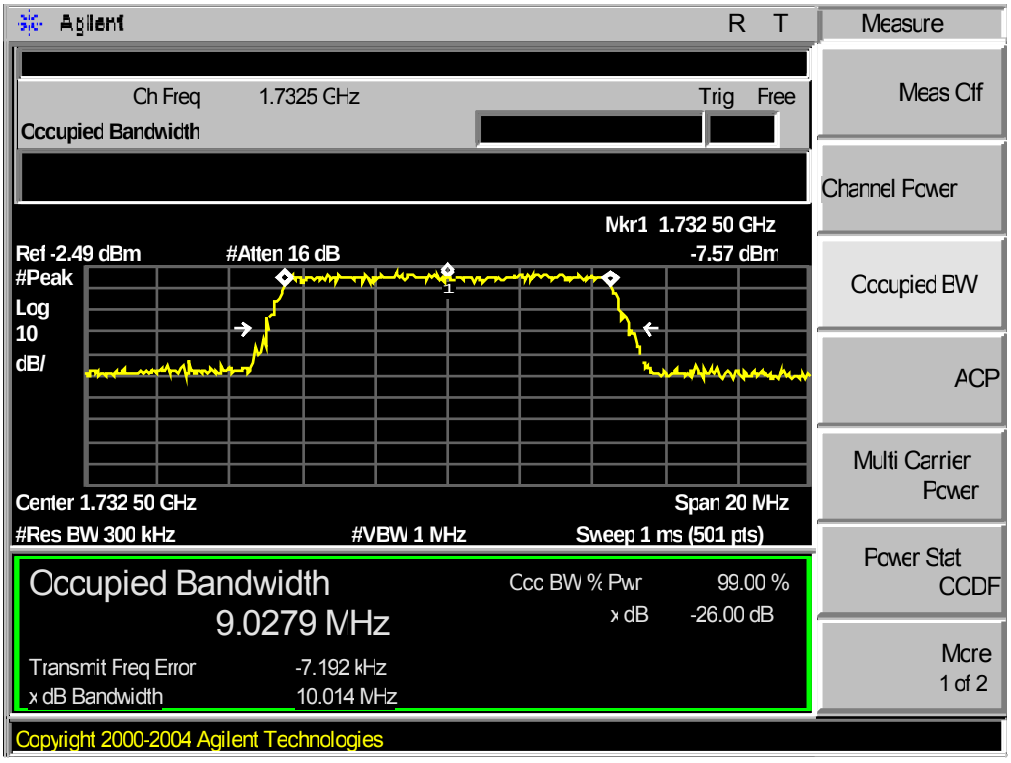
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM



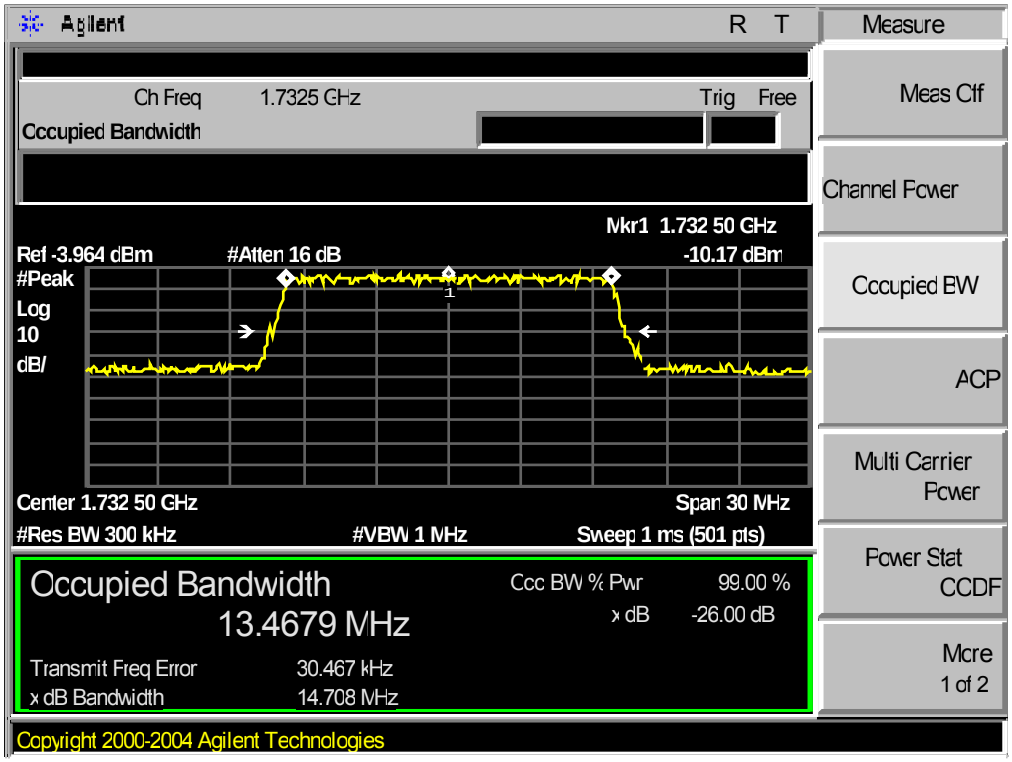
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 10.0,NO. RB 50,RB POS. Low,QPSK



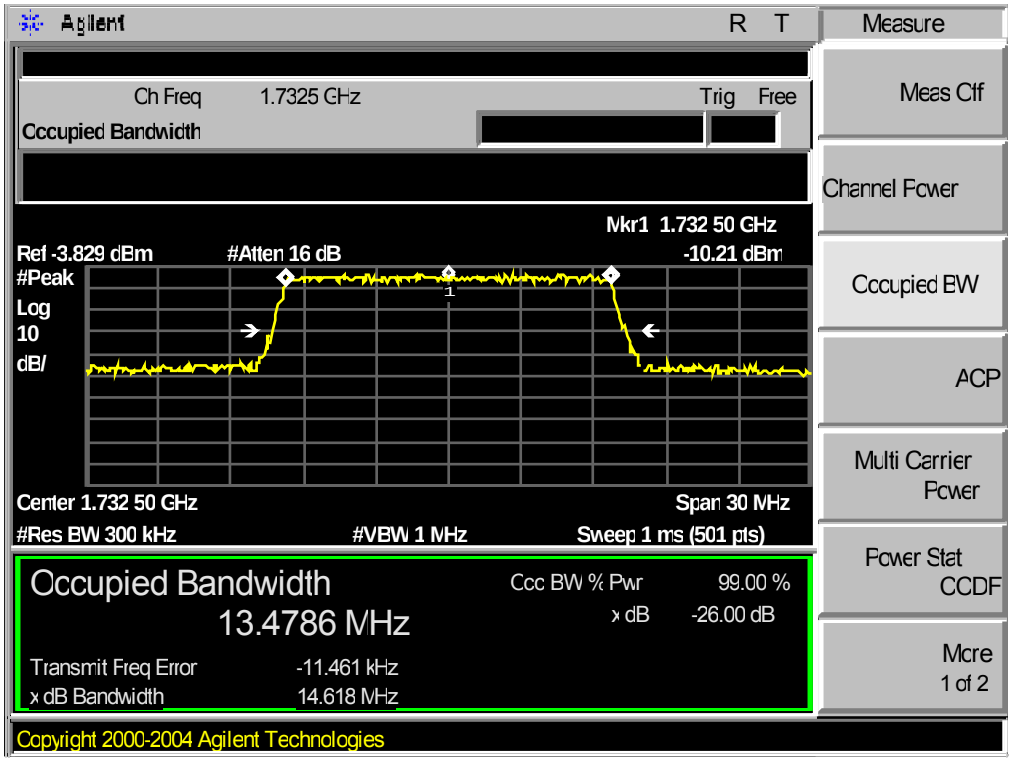
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 10.0,NO. RB 50,RB POS. Low,16QAM



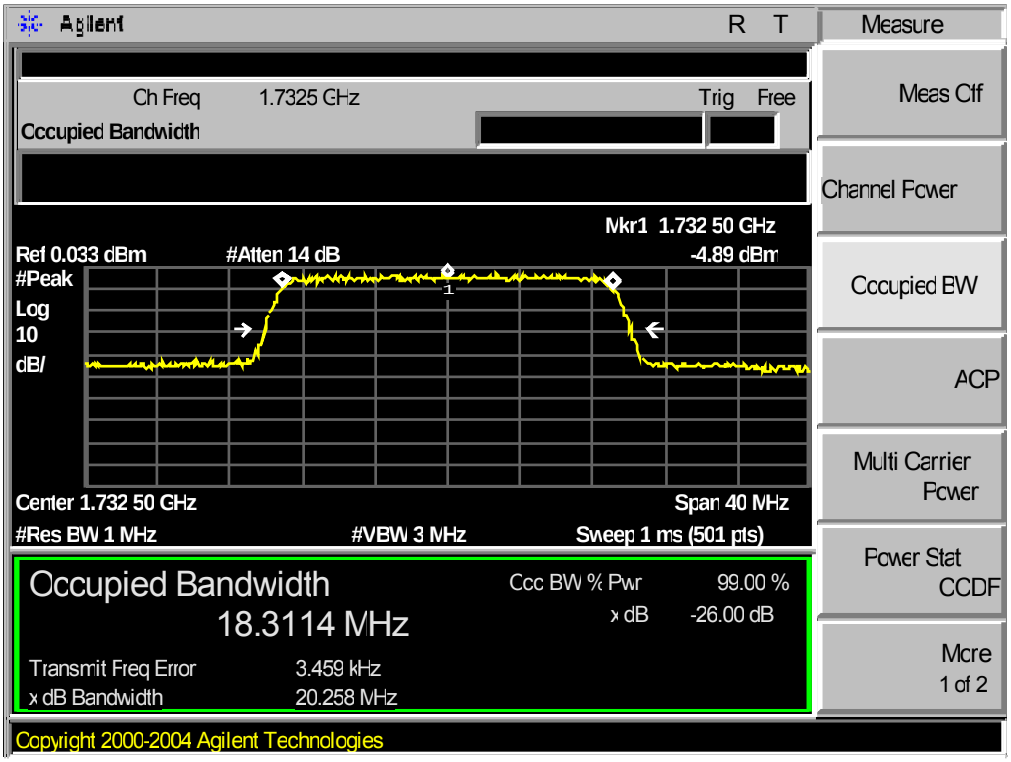
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



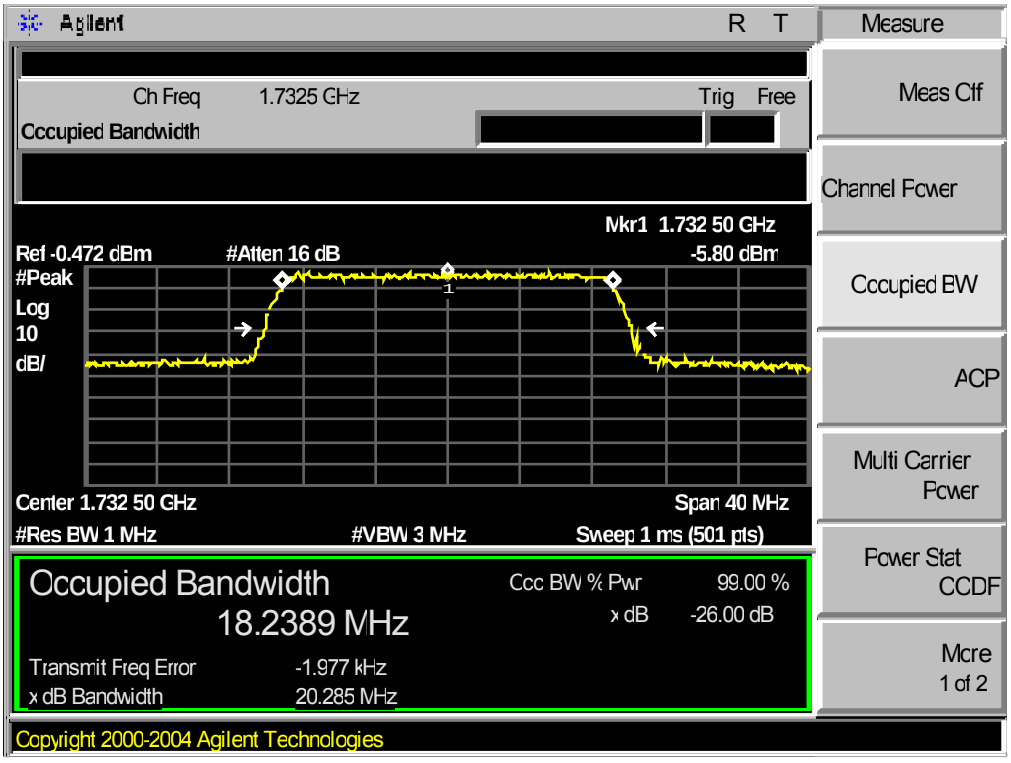
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM



Band 4,UL Channel 20175,UL Frequency 1732.5,BW 20.0,NO. RB 100,RB POS. Low,QPSK

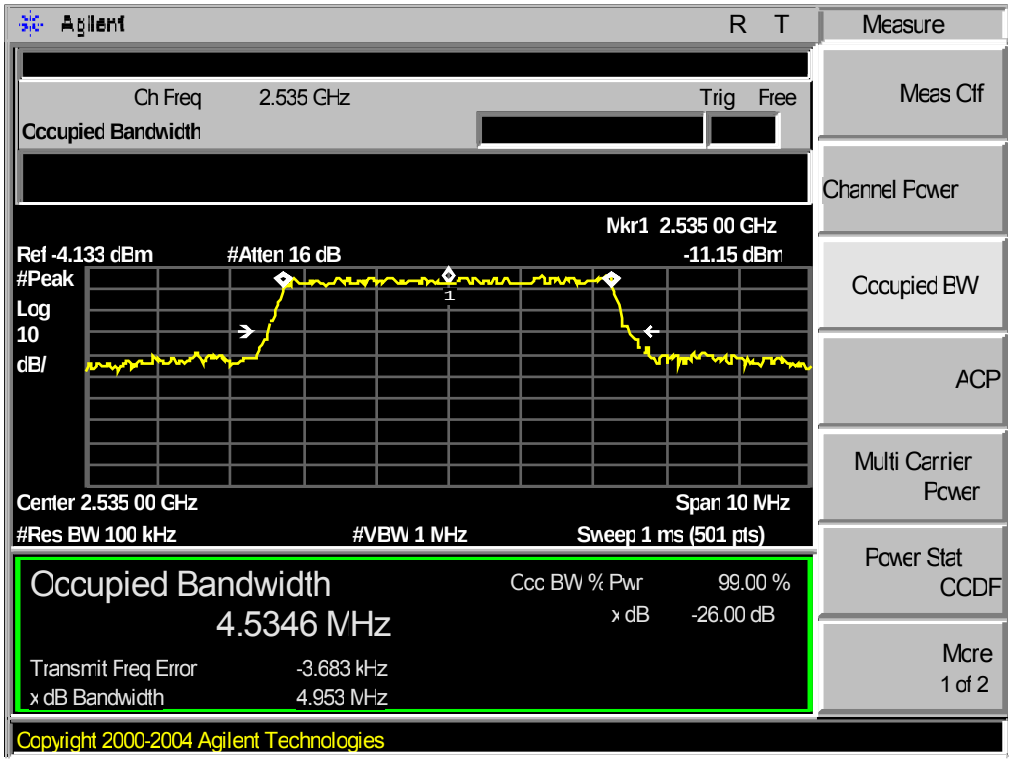


Band 4,UL Channel 20175,UL Frequency 1732.5,BW 20.0,NO. RB 100,RB POS. Low,16QAM

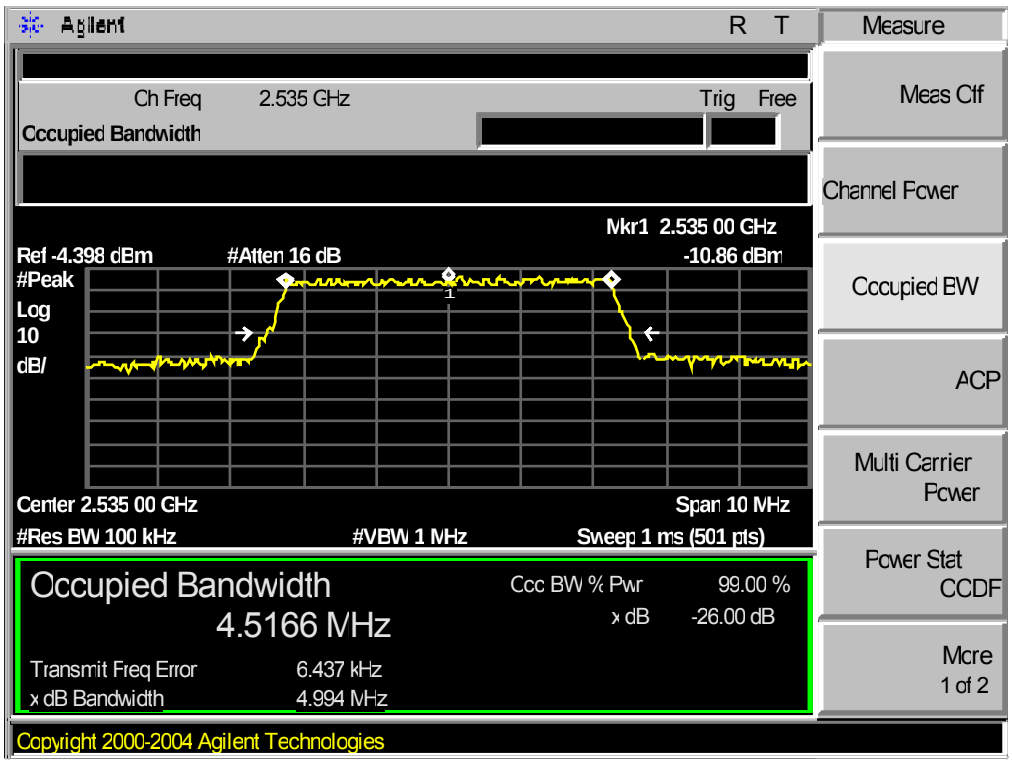


5.1.3. LTE BAND 7

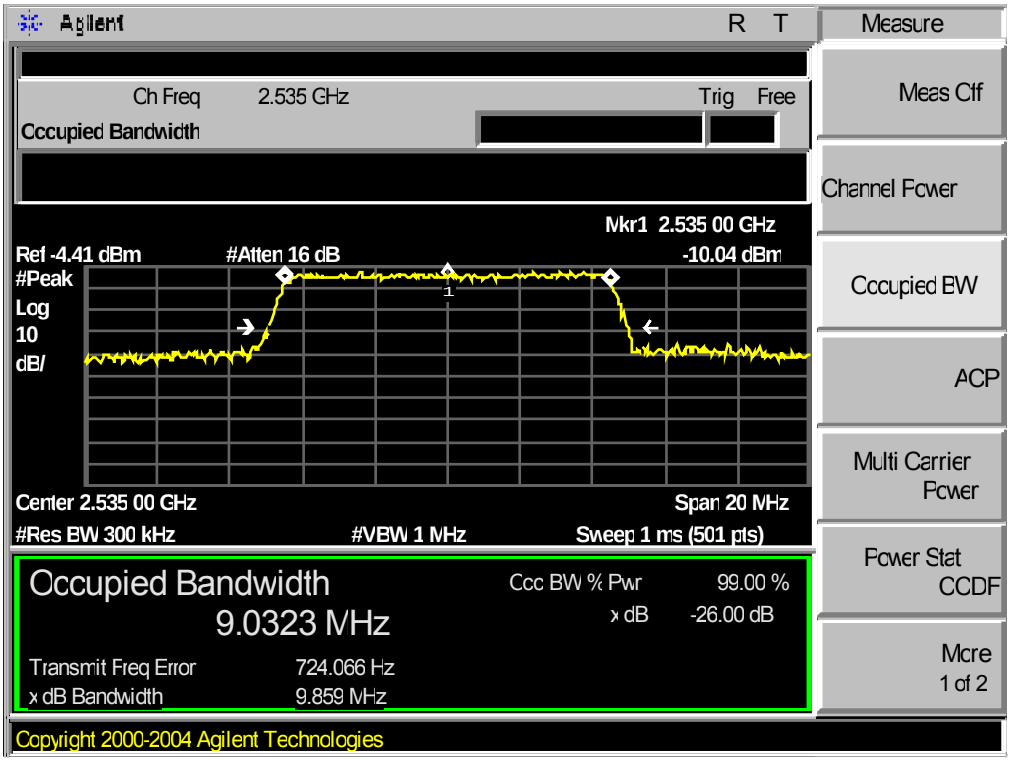
Band 7,UL Channel 21100,UL Frequency 2535.0,BW 5.0,NO. RB 25,RB POS. Low,QPSK



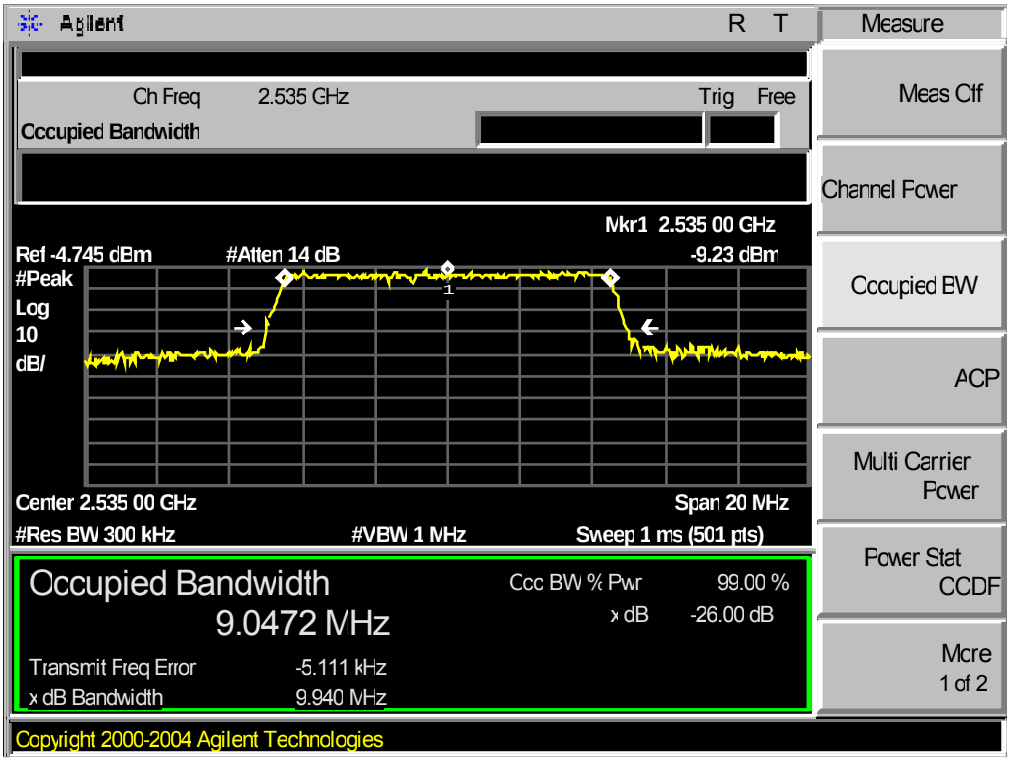
Band 7,UL Channel 21100,UL Frequency 2535.0,BW 5.0,NO. RB 25,RB POS. Low,16QAM



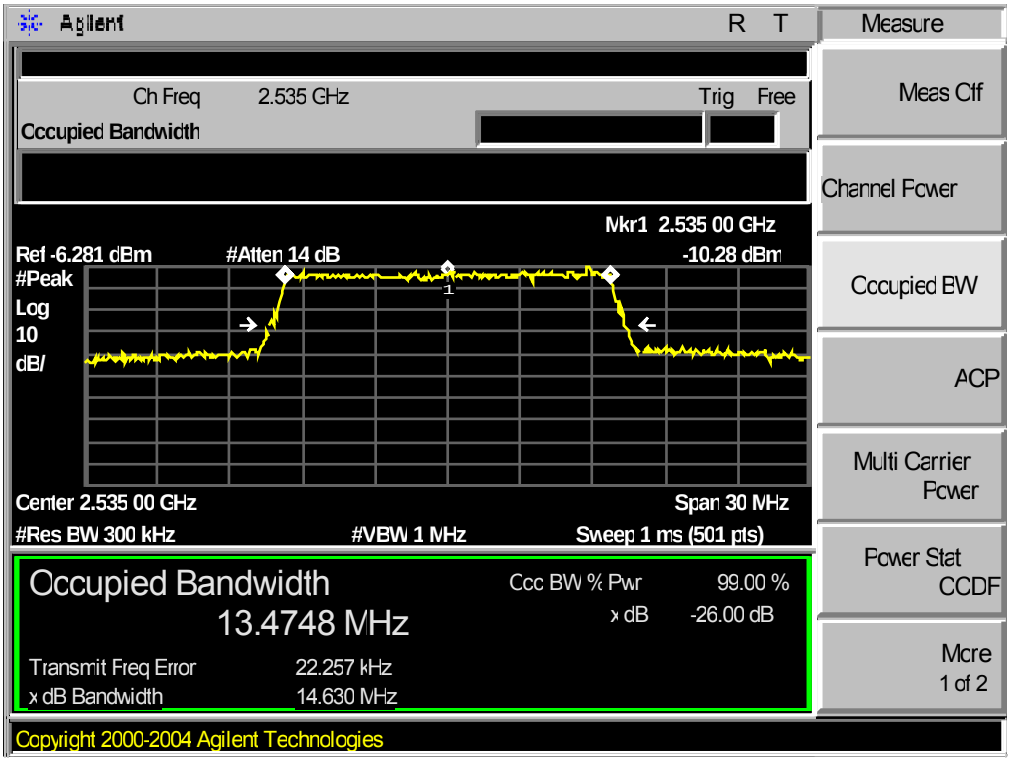
Band 7,UL Channel 21100,UL Frequency 2535.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



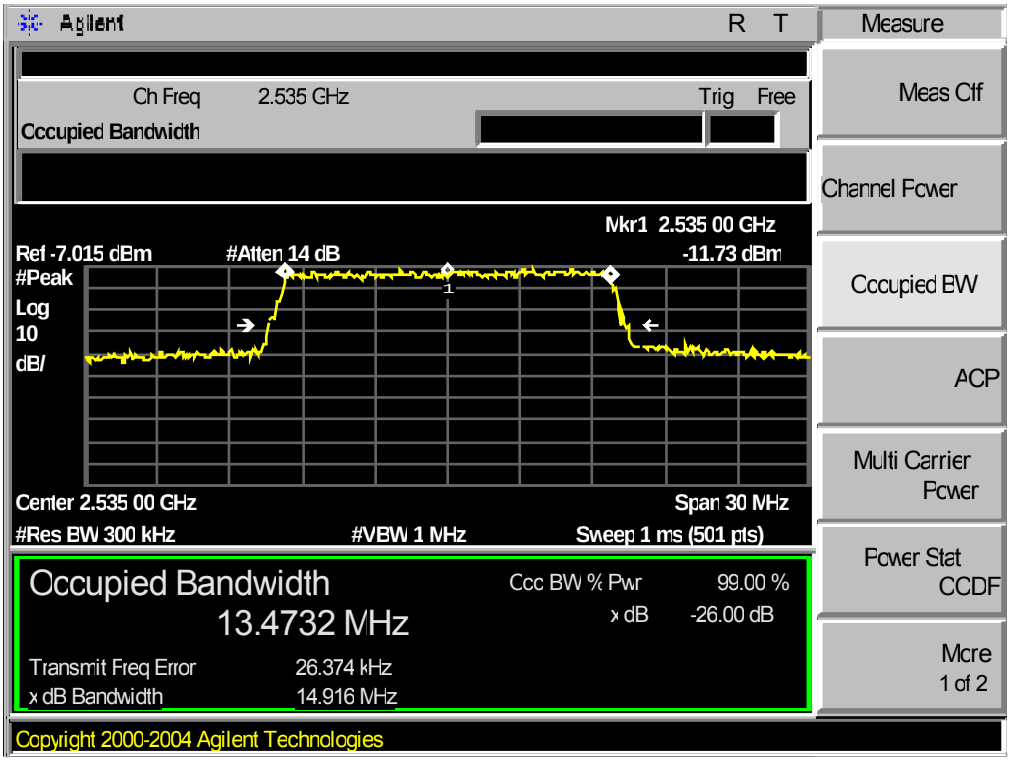
Band 7,UL Channel 21100,UL Frequency 2535.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



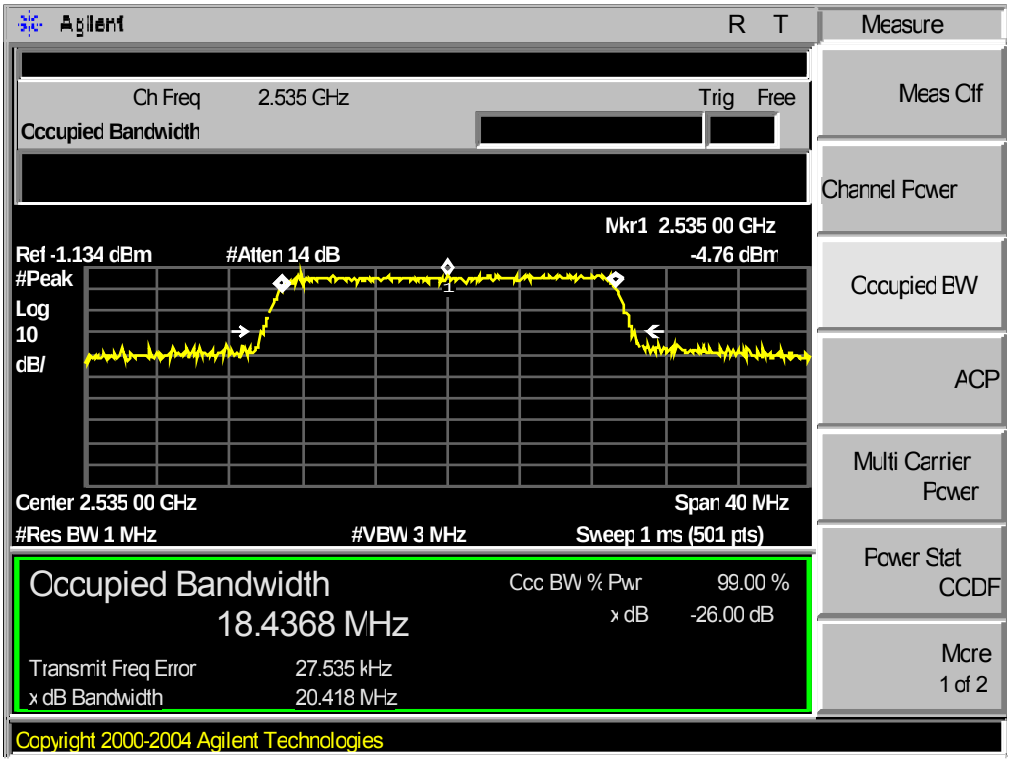
Band 7,UL Channel 21100,UL Frequency 2535.0,BW 15.0,NO. RB 75,RB POS. Low,QPSK



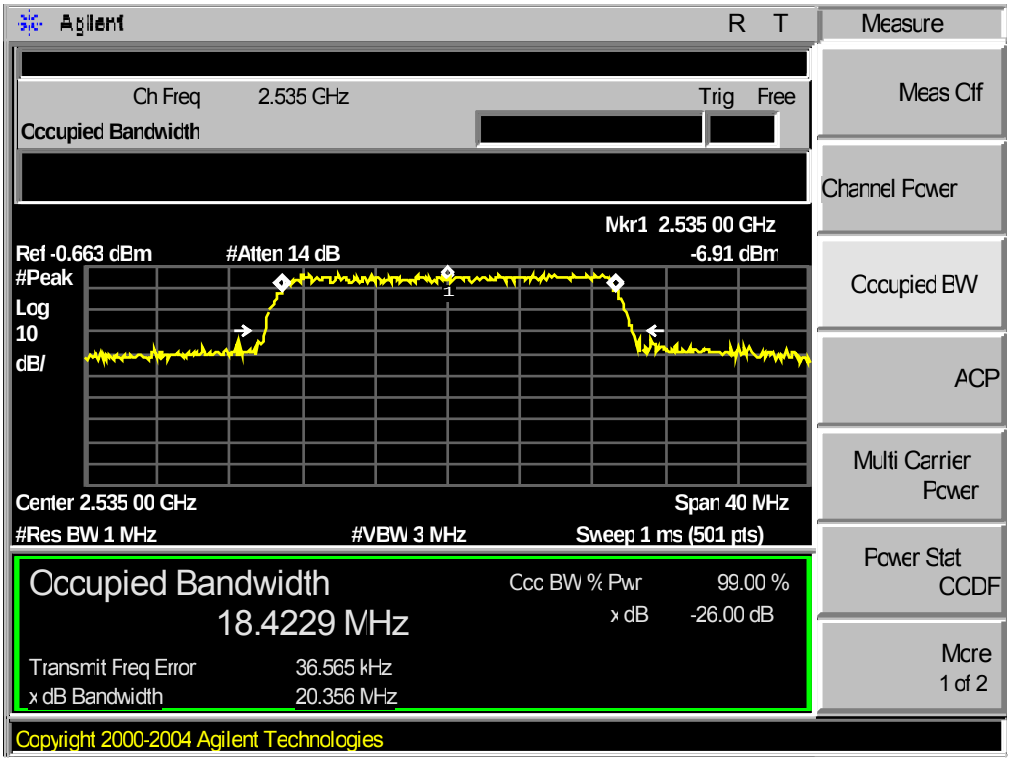
Band 7,UL Channel 21100,UL Frequency 2535.0,BW 15.0,NO. RB 75,RB POS. Low,16QAM



Band 7,UL Channel 21100,UL Frequency 2535.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK

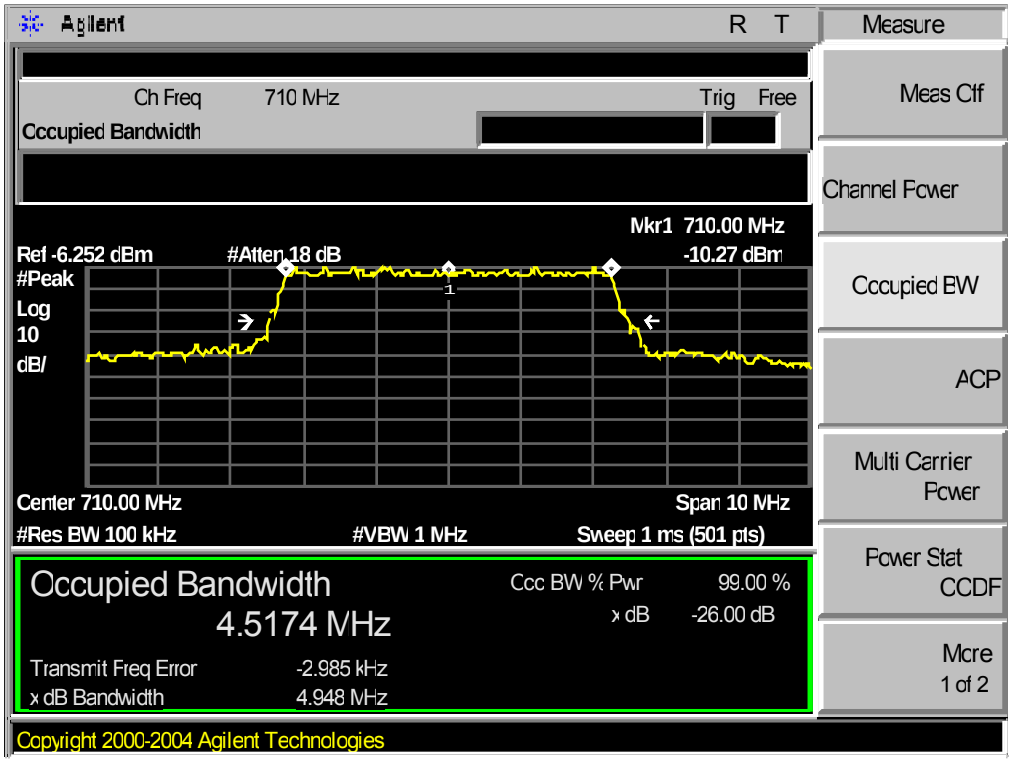


Band 7,UL Channel 21100,UL Frequency 2535.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM

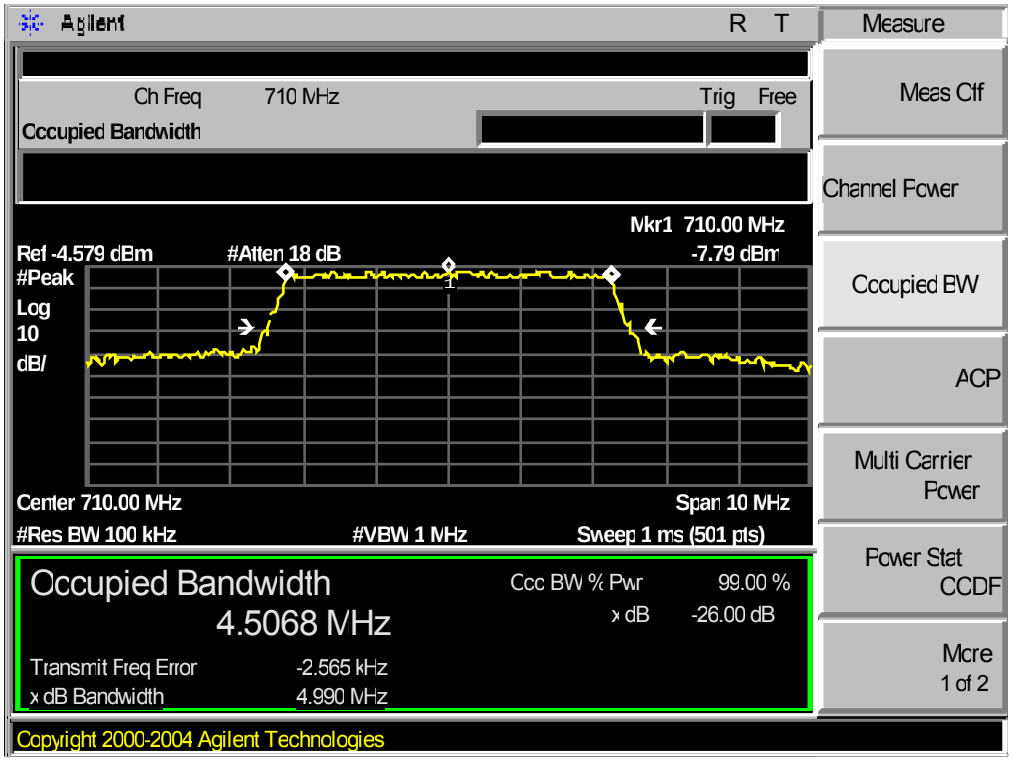


5.1.4. LTE BAND 17

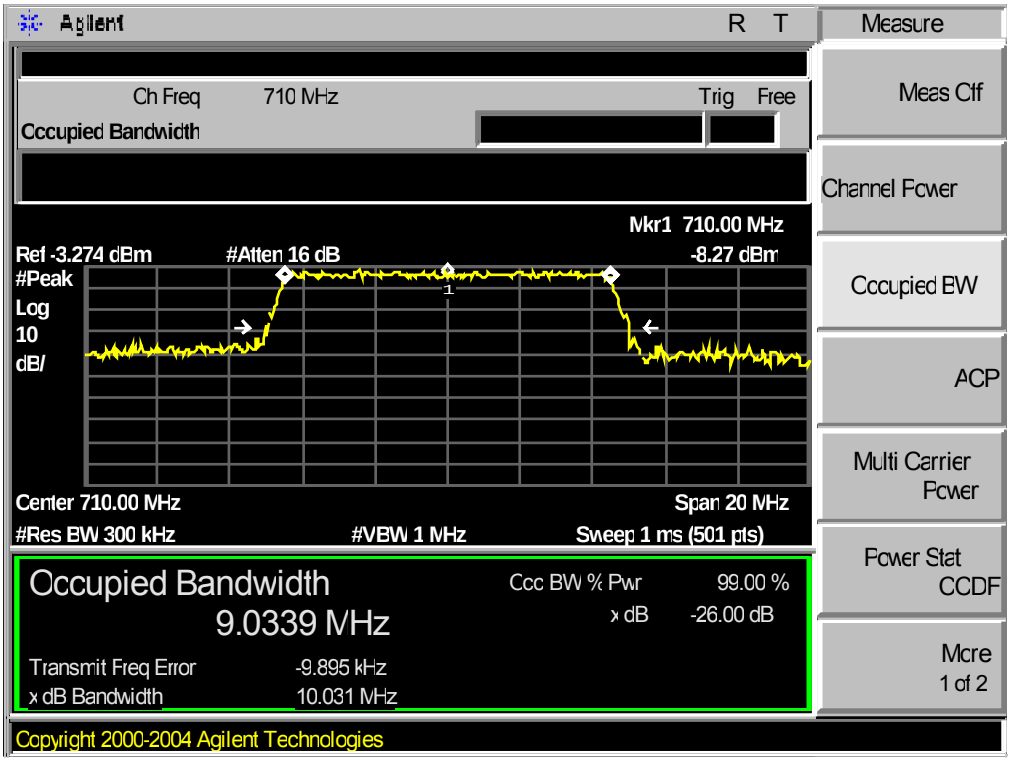
Band 17,UL Channel 23790,UL Frequency 710.0,BW 5.0,NO. RB 25,RB POS. Low,QPSK



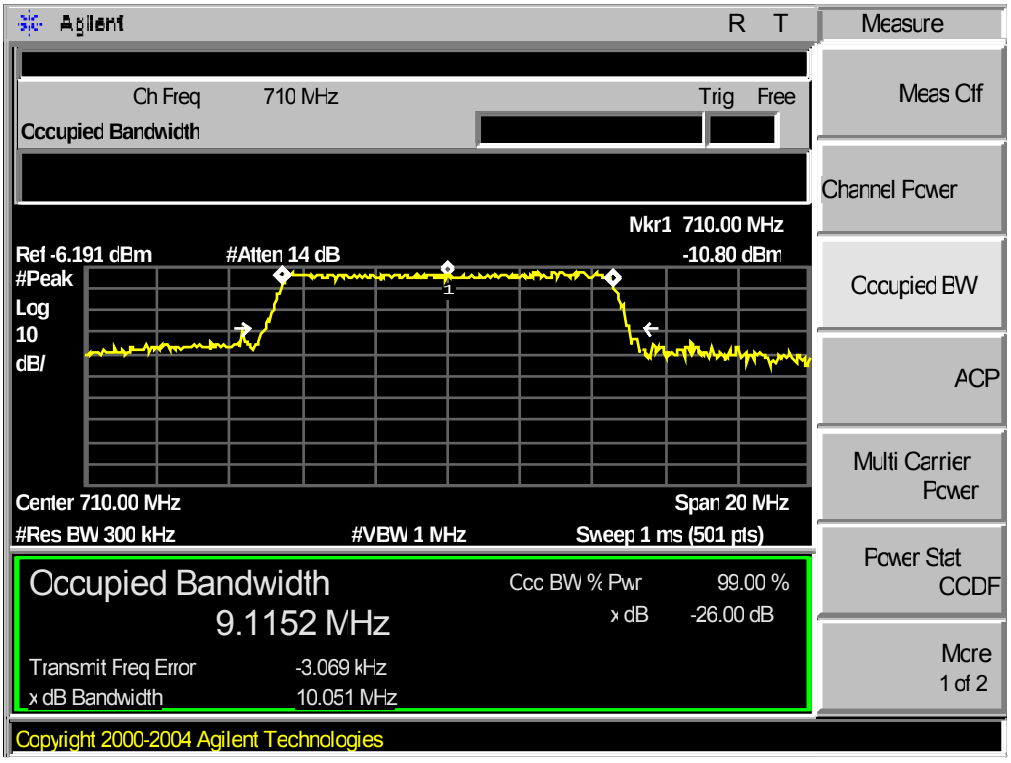
Band 17,UL Channel 23790,UL Frequency 710.0,BW 5.0,NO. RB 25,RB POS. Low,16QAM



Band 17,UL Channel 23790,UL Frequency 710.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



Band 17,UL Channel 23790,UL Frequency 710.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



6. BANDEDGE AND EMISSION MASK

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53, and §90.691
FCC: §22.359

LIMITS

FCC: §22.359, §24.238,
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.Show citation box.

TEST PROCEDURE

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.
For each band edge measurement:
Set the spectrum analyzer span to include the block edge frequency (704, 716, 824, 849, 1710 and 1755, 1850 and 1910MHz)
Set a marker to point the corresponding band edge frequency in each test case.
Set display line at -13 dBm
Set resolution bandwidth to at least 1% of emission bandwidth.

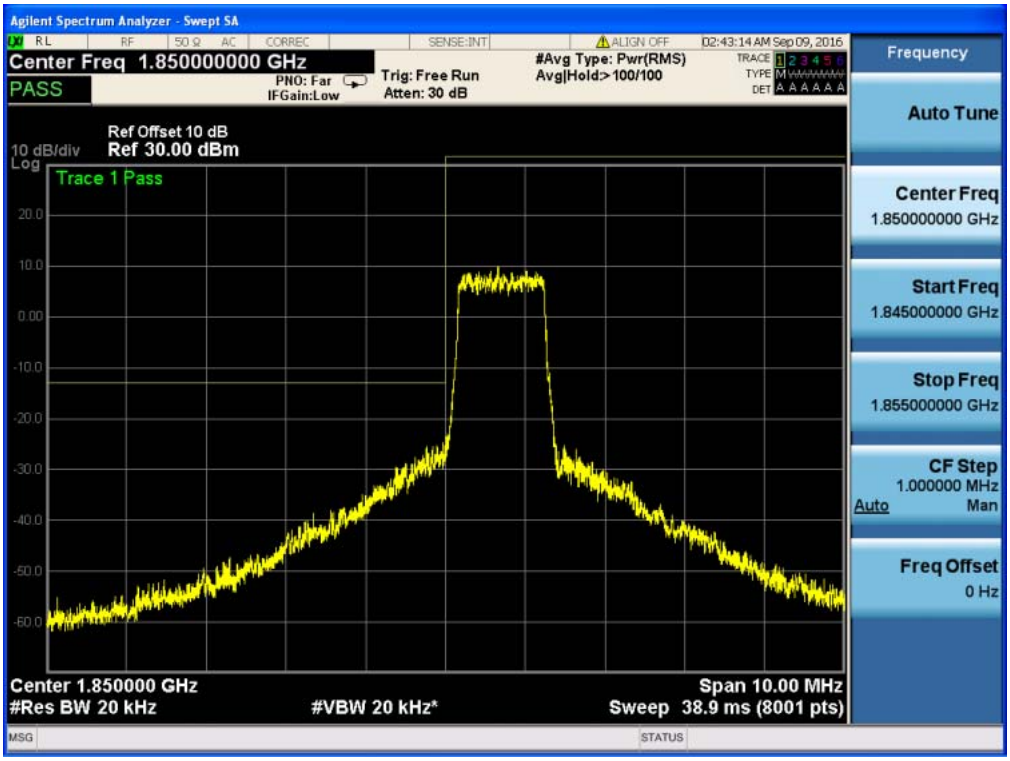
MODES TESTED

LTE Band 2
LTE Band 4
LTE Band 7
LTE Band 17

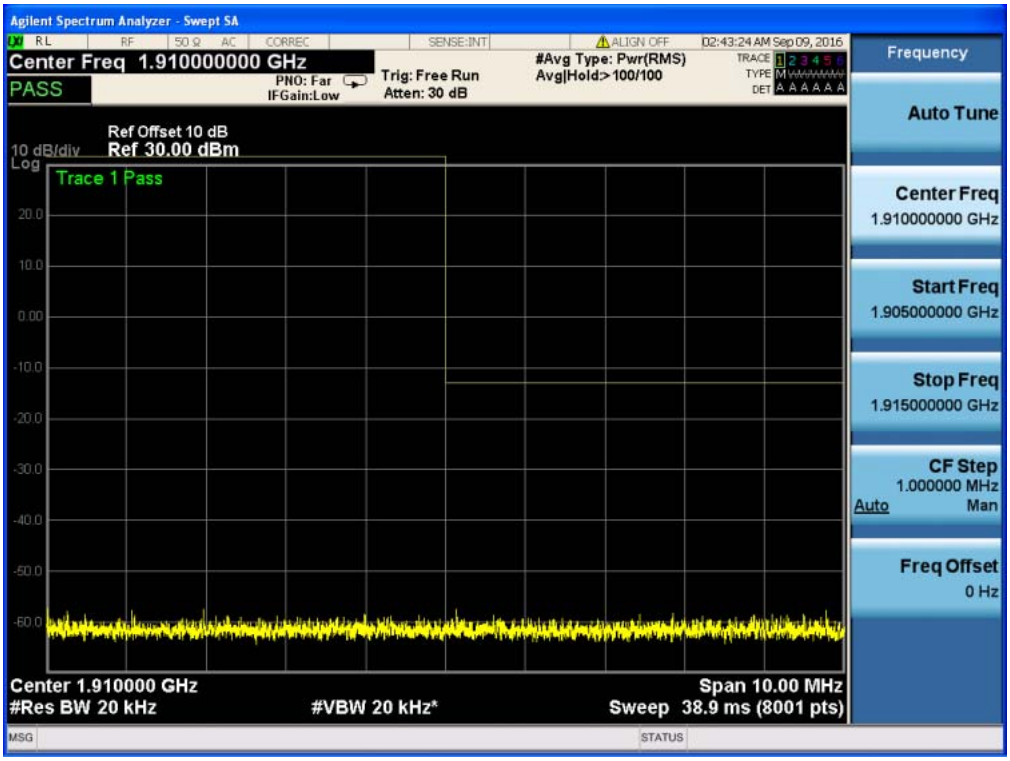
RESULTS

6.1.1. LTE BAND 2

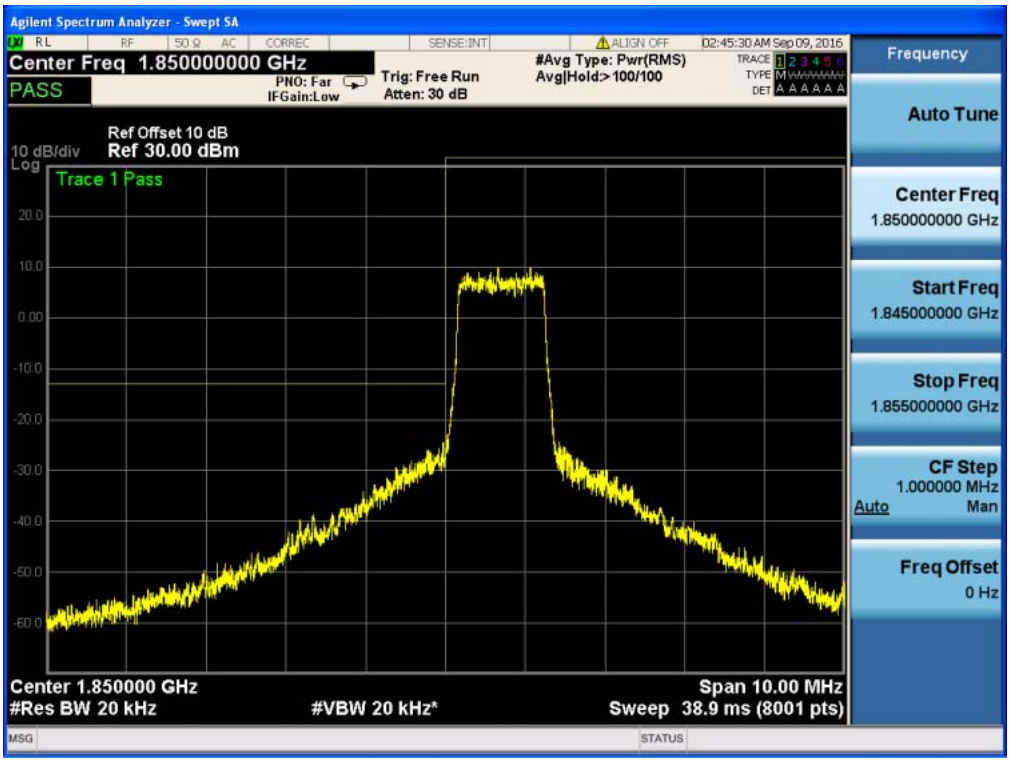
Band 2,UL Channel 18607,UL Frequency 1850.7,BW 1.4,NO. RB 6,RB POS. Low,QPSK



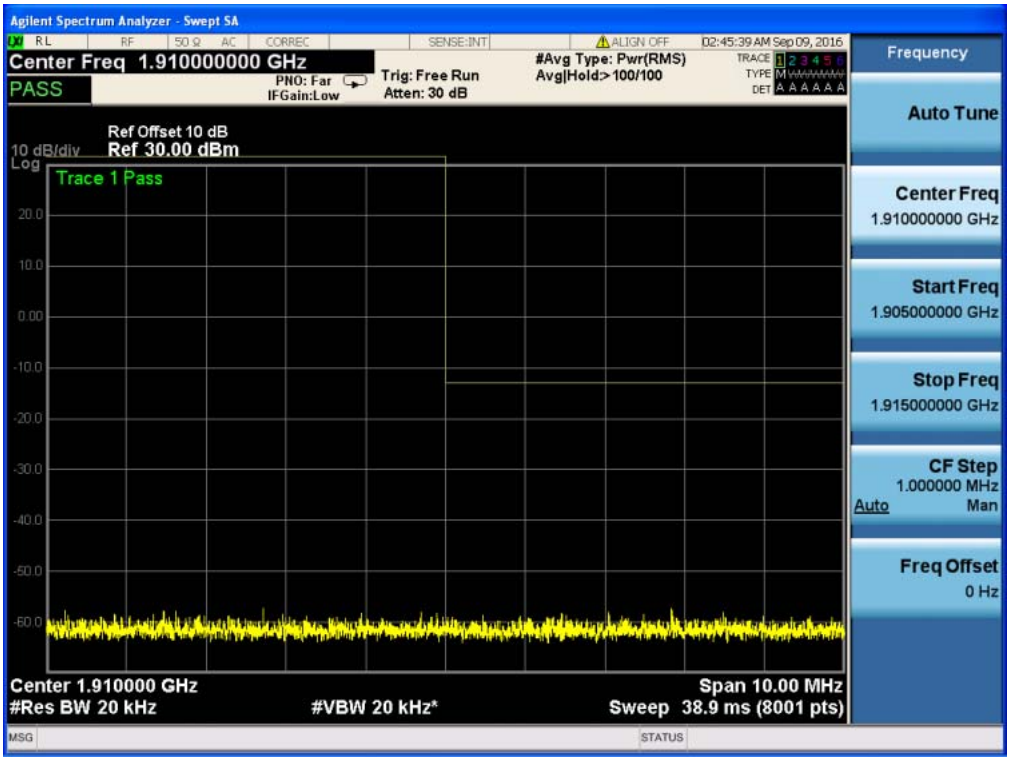
Band 2,UL Channel 18607,UL Frequency 1850.7,BW 1.4,NO. RB 6,RB POS. Low,QPSK



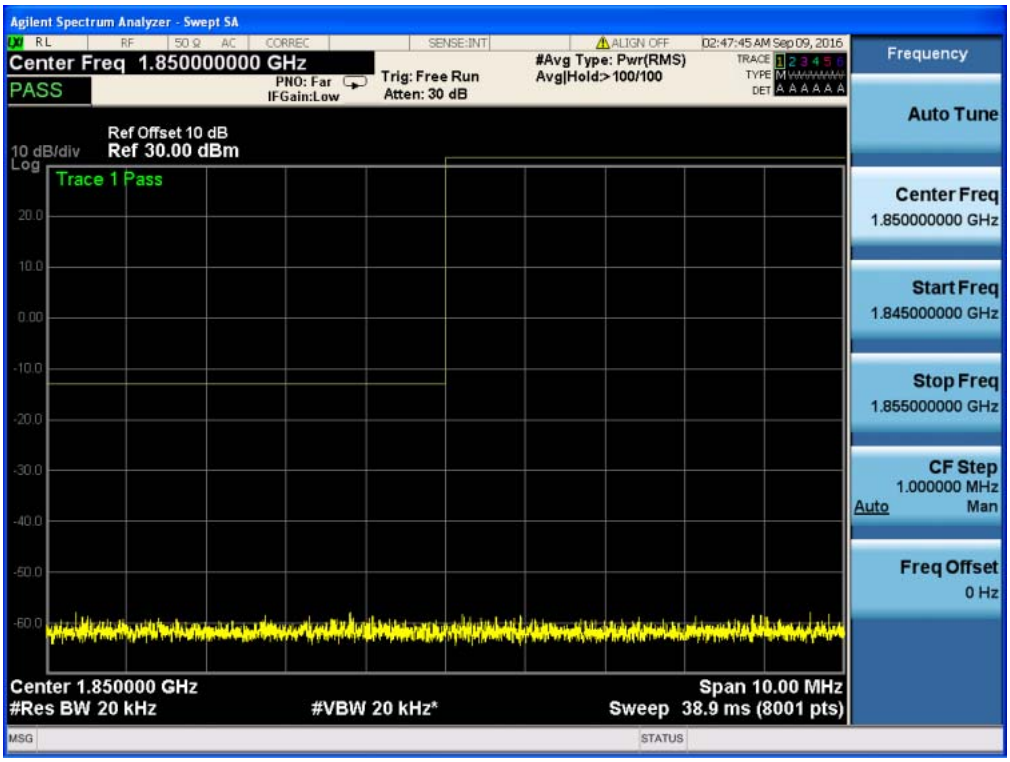
Band 2,UL Channel 18607,UL Frequency 1850.7,BW 1.4,NO. RB 6,RB POS. Low,16QAM



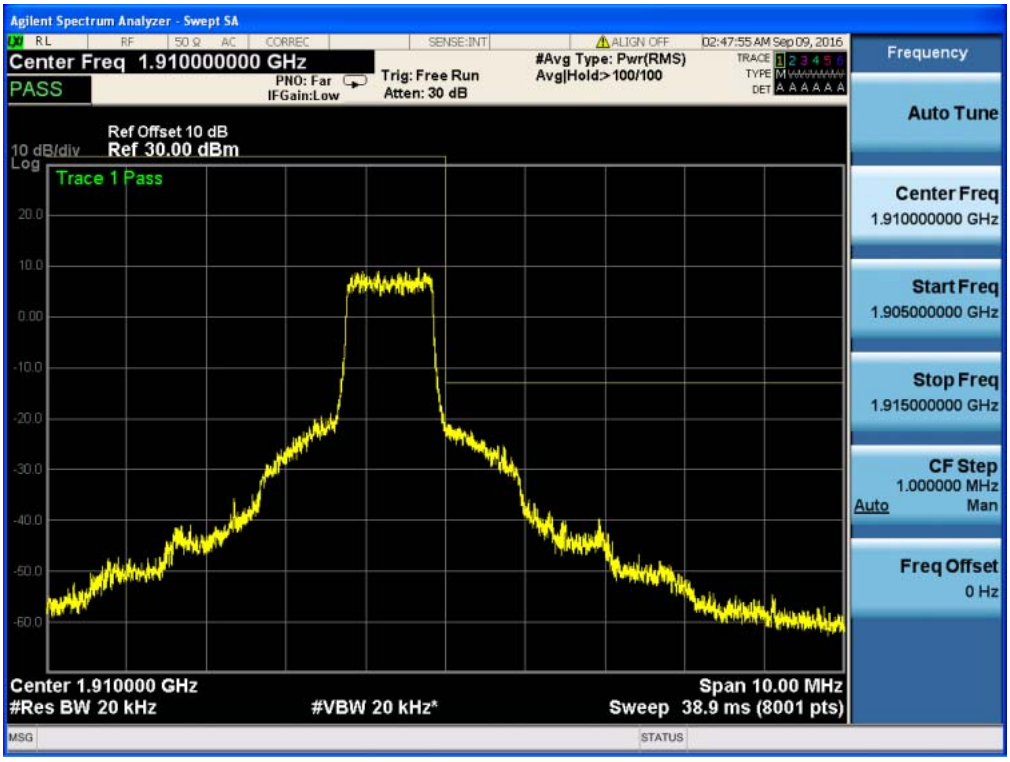
Band 2,UL Channel 18607,UL Frequency 1850.7,BW 1.4,NO. RB 6,RB POS. Low,16QAM



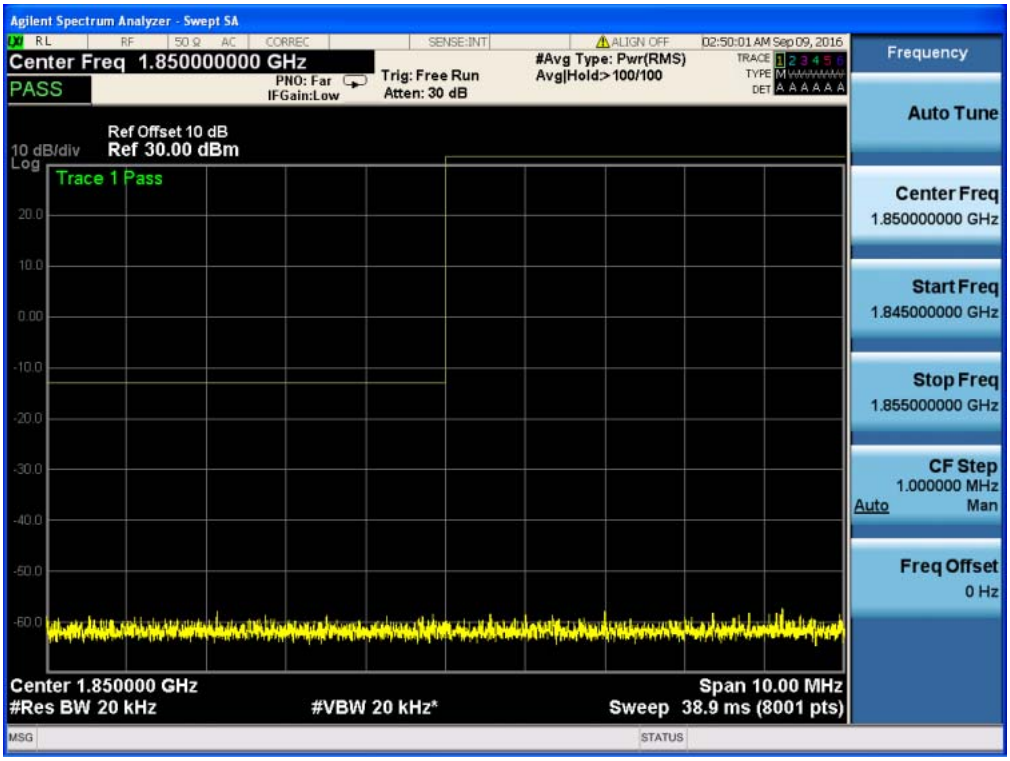
Band 2,UL Channel 19193,UL Frequency 1909.3,BW 1.4,NO. RB 6,RB POS. Low,QPSK



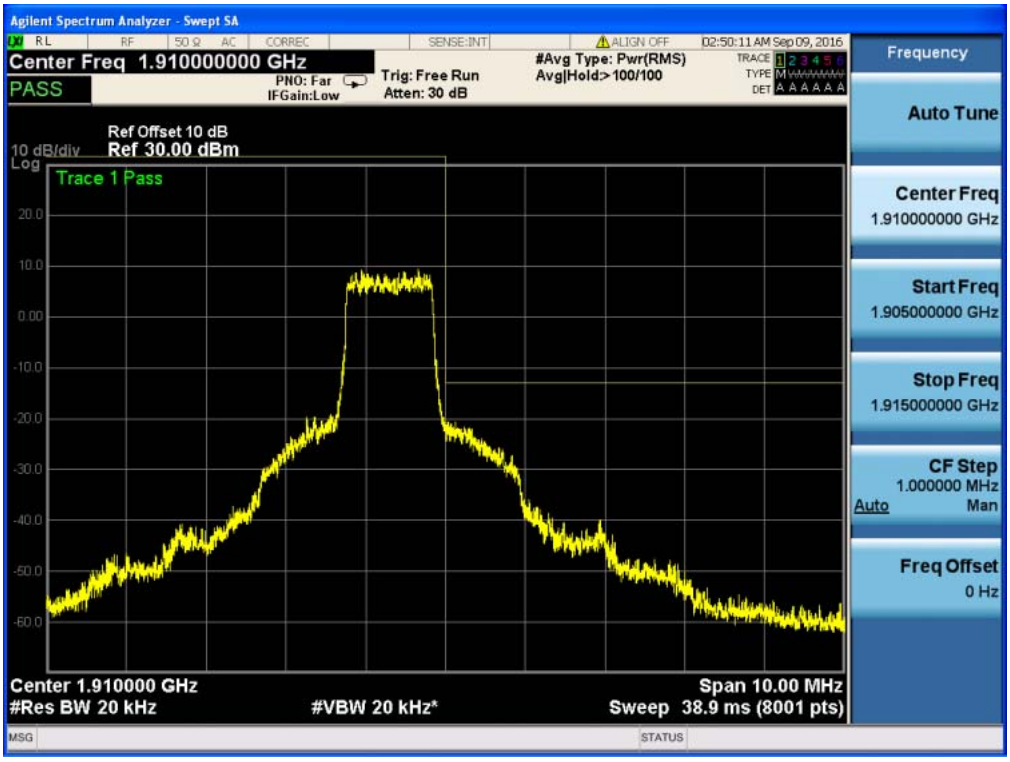
Band 2,UL Channel 19193,UL Frequency 1909.3,BW 1.4,NO. RB 6,RB POS. Low,QPSK



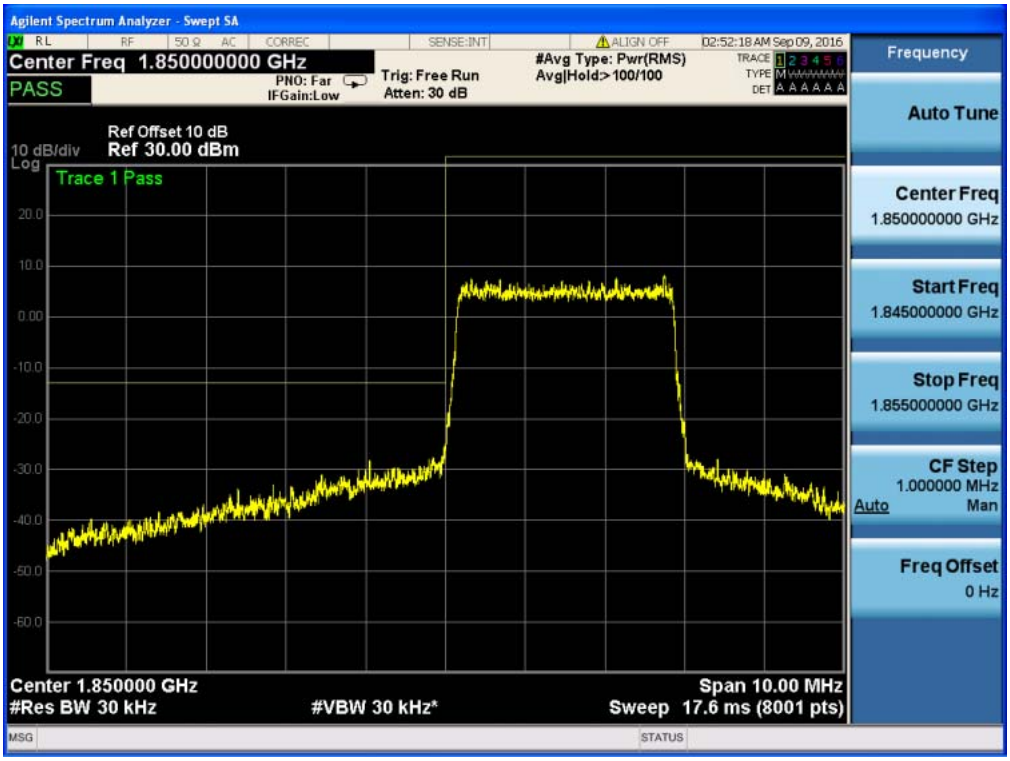
Band 2,UL Channel 19193,UL Frequency 1909.3,BW 1.4,NO. RB 6,RB POS. Low,16QAM



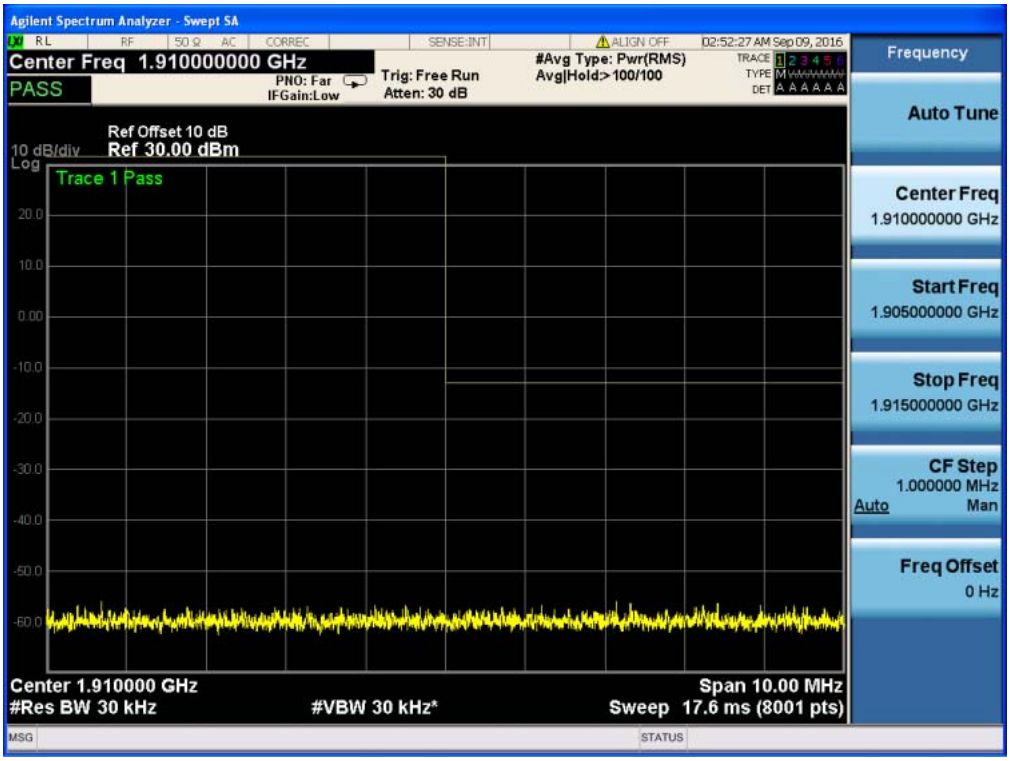
Band 2,UL Channel 19193,UL Frequency 1909.3,BW 1.4,NO. RB 6,RB POS. Low,16QAM



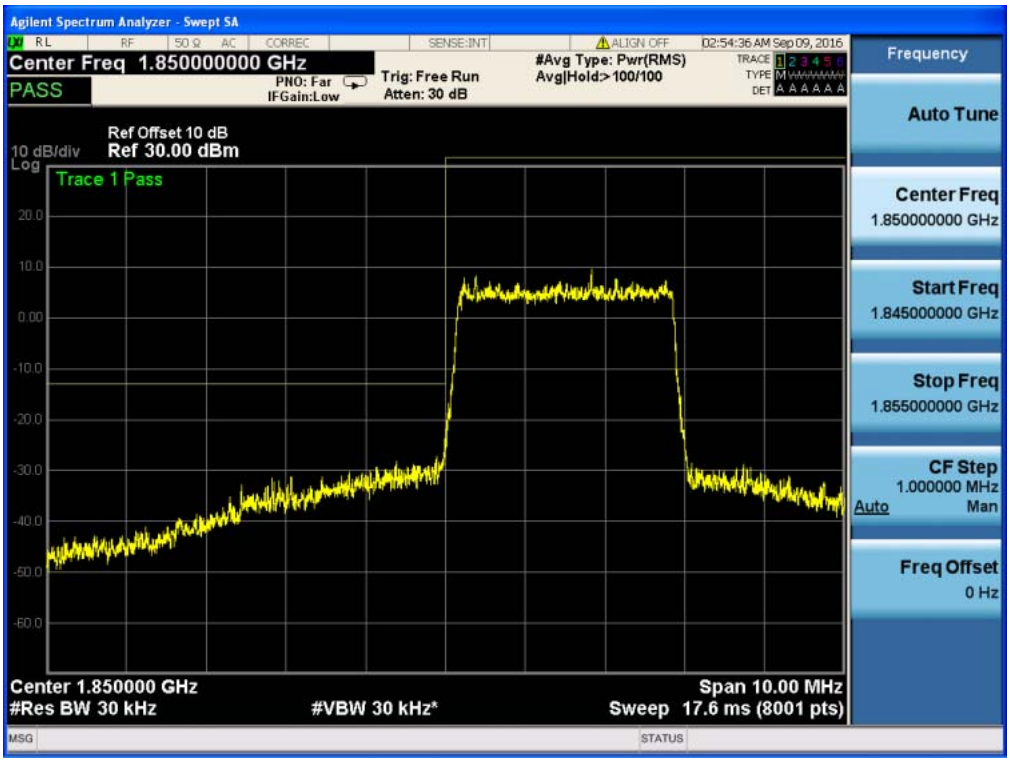
Band 2,UL Channel 18615,UL Frequency 1851.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



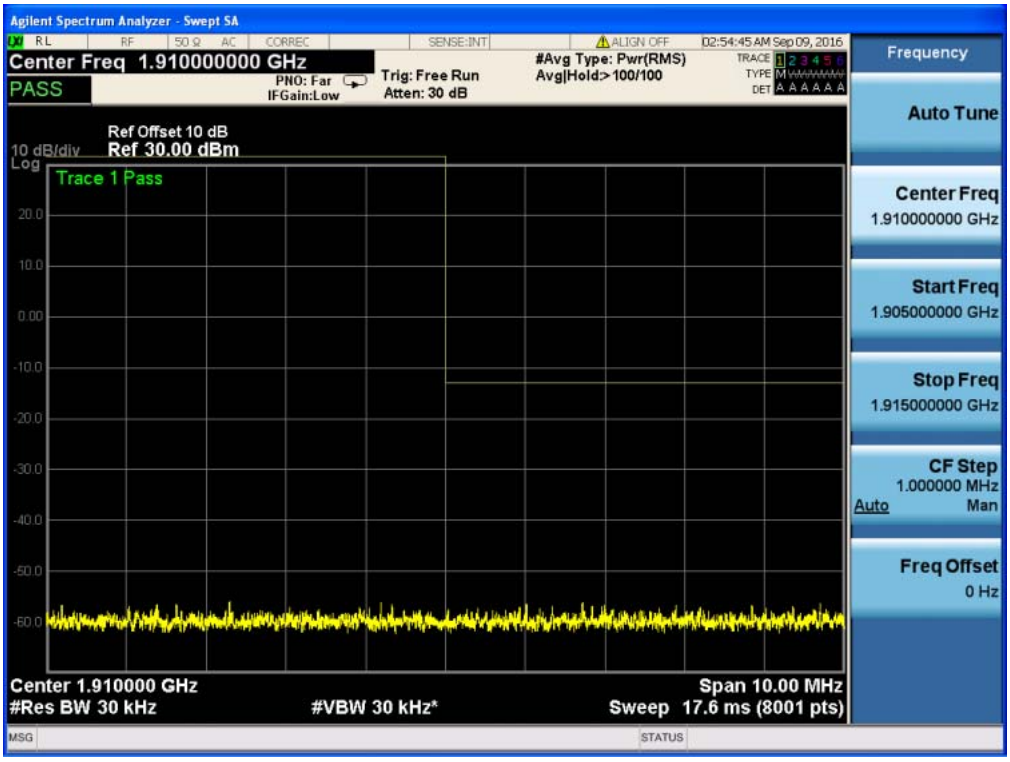
Band 2,UL Channel 18615,UL Frequency 1851.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



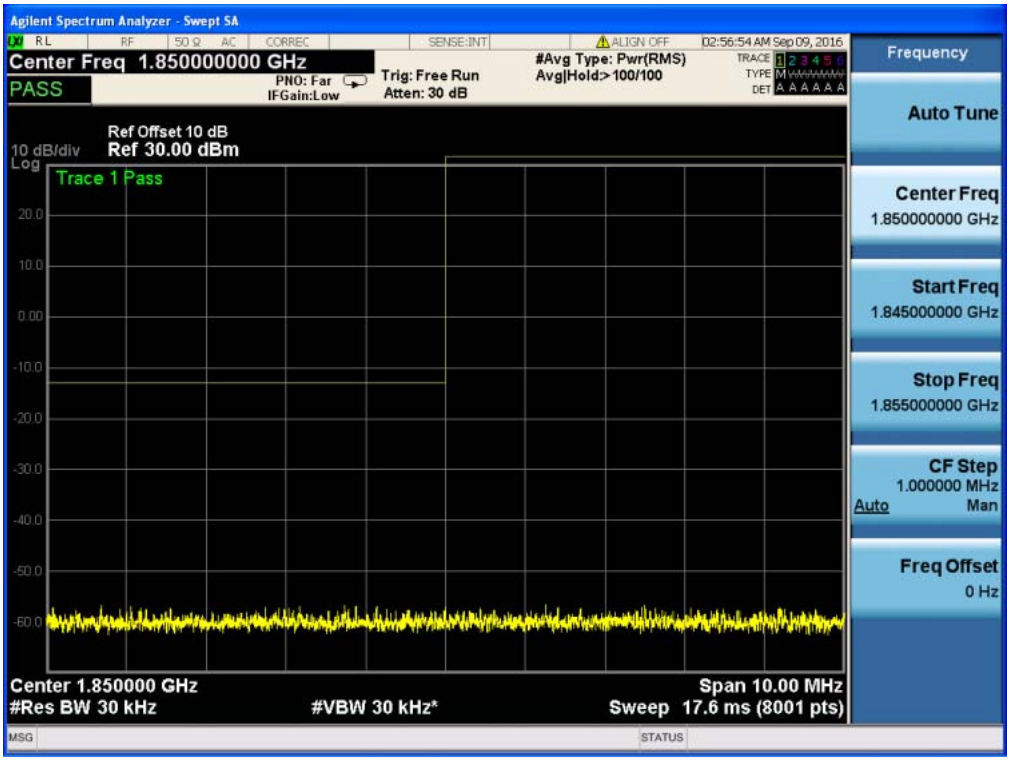
Band 2,UL Channel 18615,UL Frequency 1851.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM



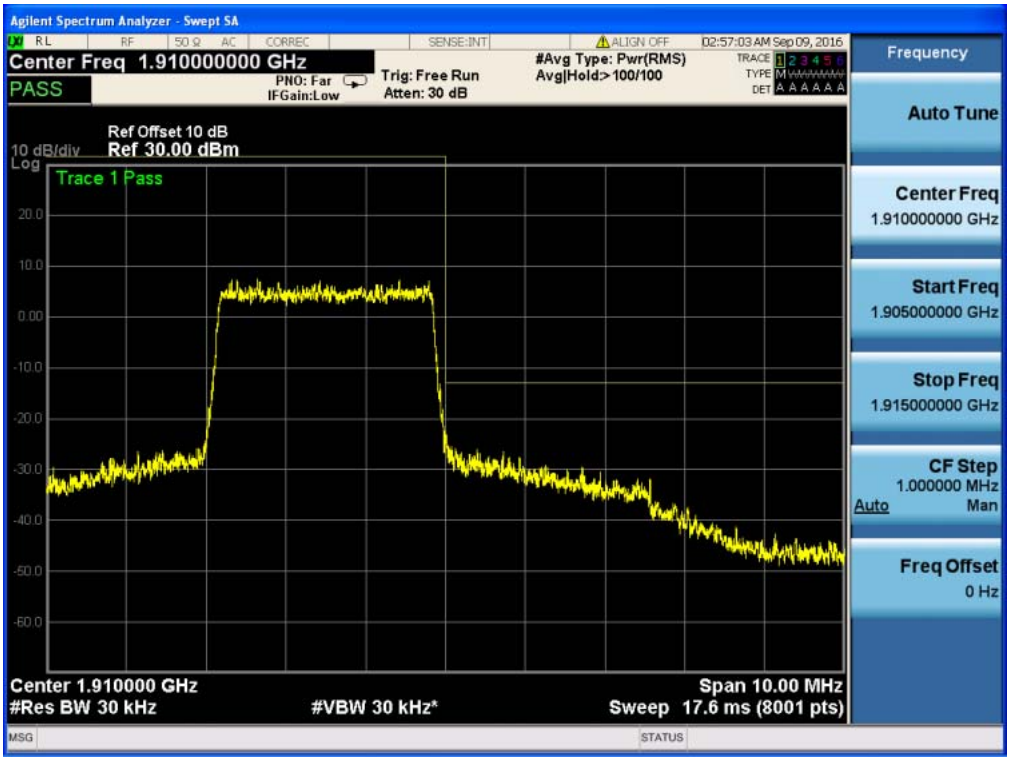
Band 2,UL Channel 18615,UL Frequency 1851.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM



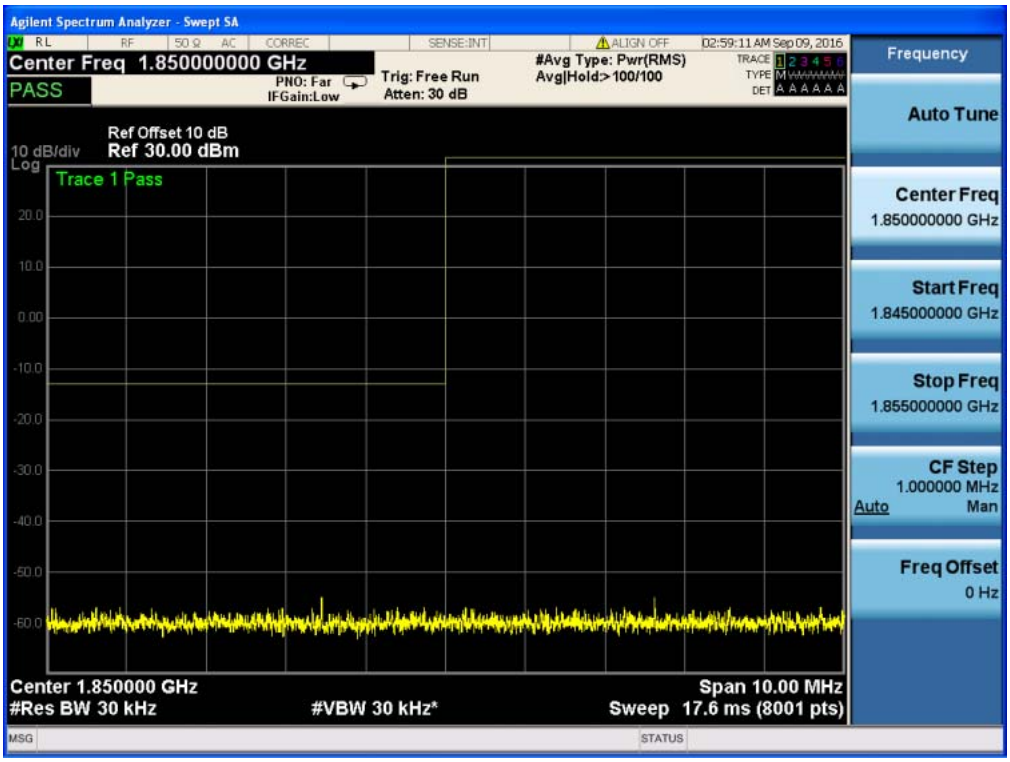
Band 2,UL Channel 19185,UL Frequency 1908.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



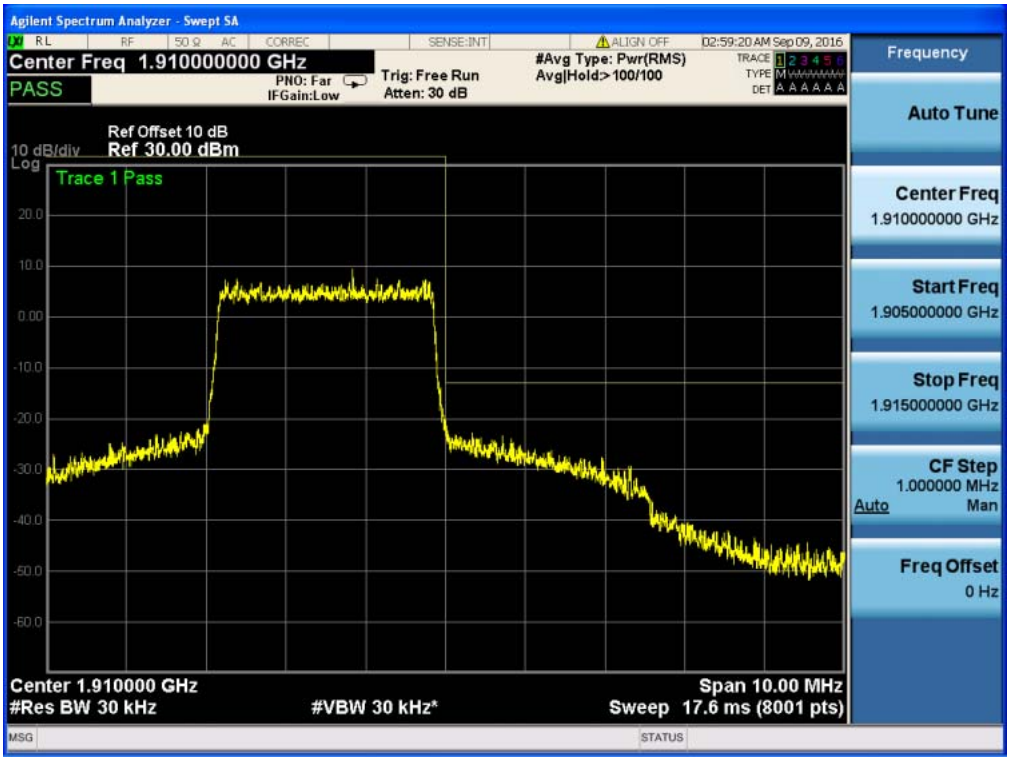
Band 2,UL Channel 19185,UL Frequency 1908.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



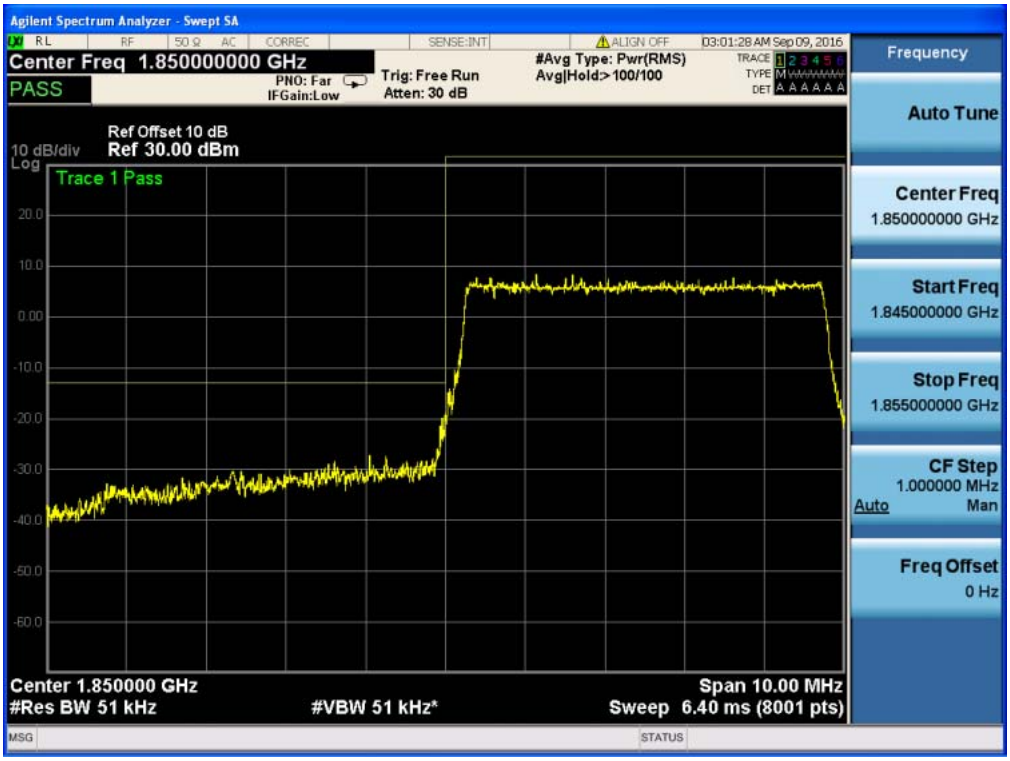
Band 2,UL Channel 19185,UL Frequency 1908.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM



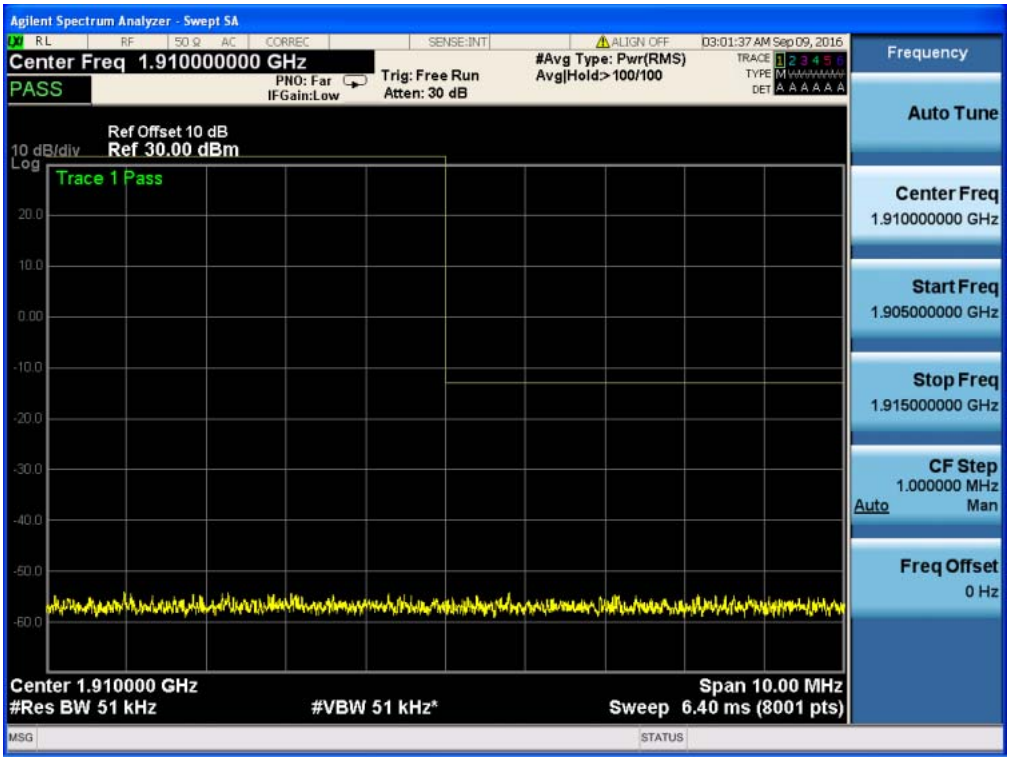
Band 2,UL Channel 19185,UL Frequency 1908.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM



Band 2,UL Channel 18625,UL Frequency 1852.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

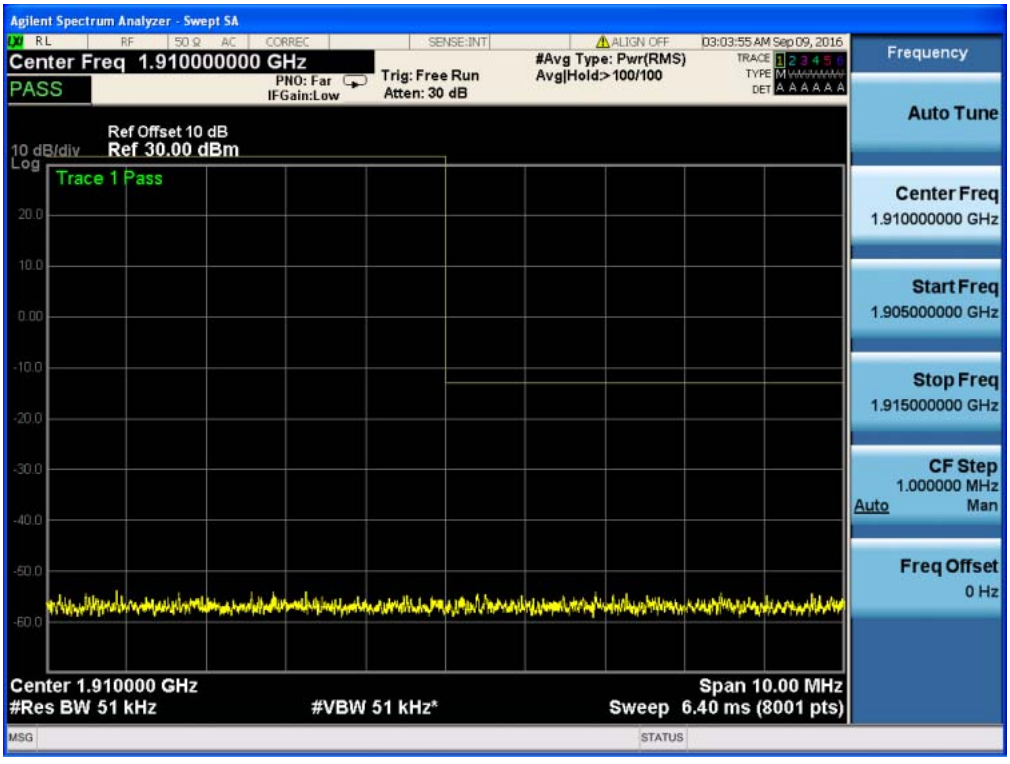


Band 2,UL Channel 18625,UL Frequency 1852.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

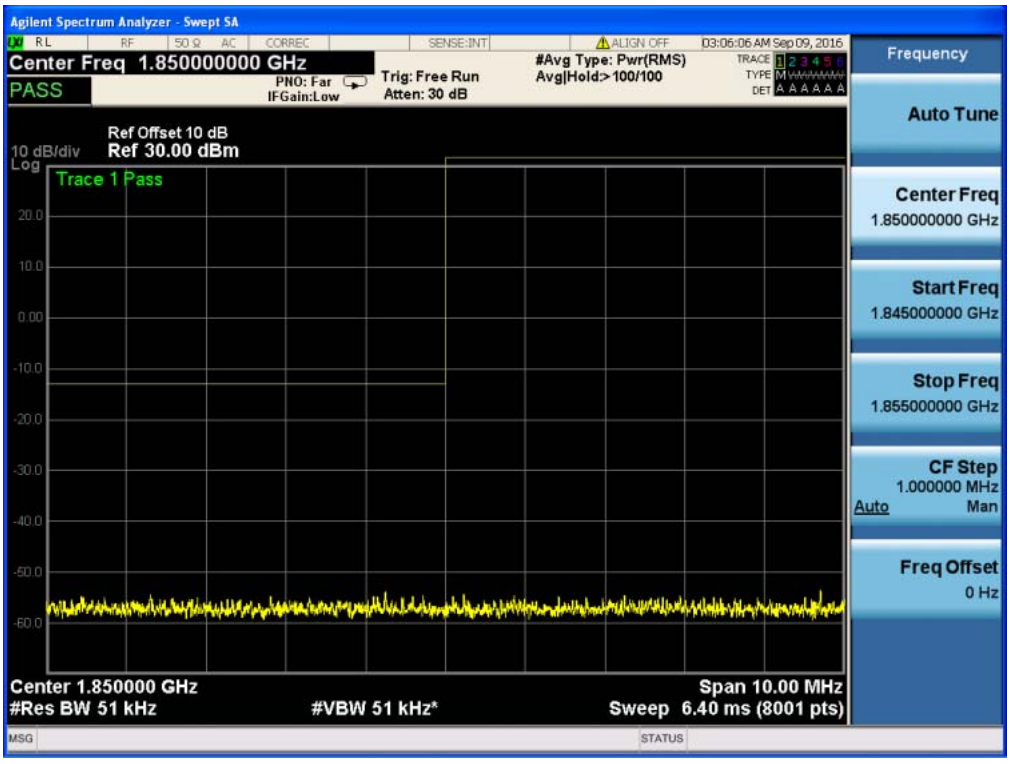


Band 2,UL Channel 18625,UL Frequency 1852.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM

Band 2,UL Channel 18625,UL Frequency 1852.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM

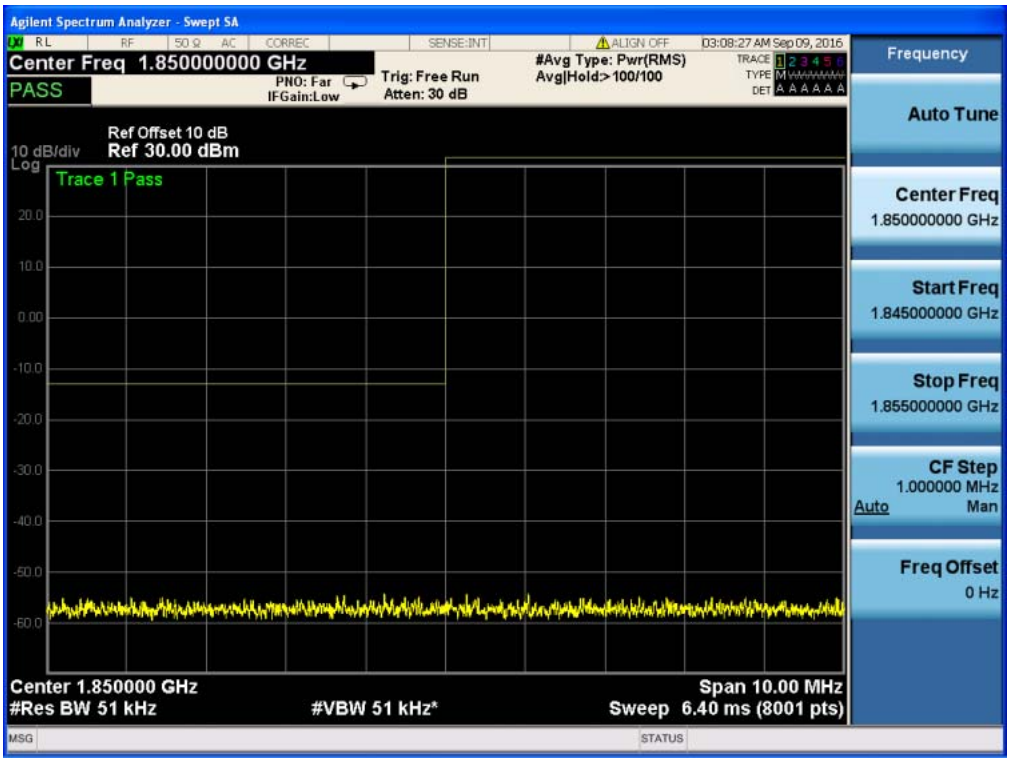


Band 2,UL Channel 19175,UL Frequency 1907.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

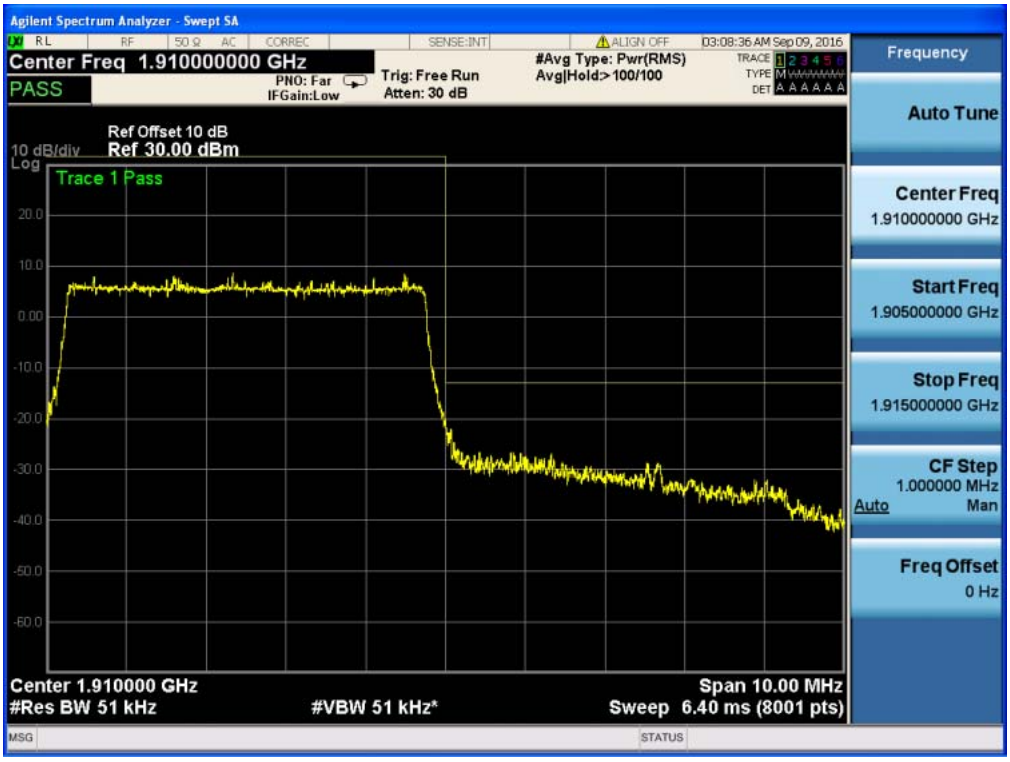


Band 2,UL Channel 19175,UL Frequency 1907.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

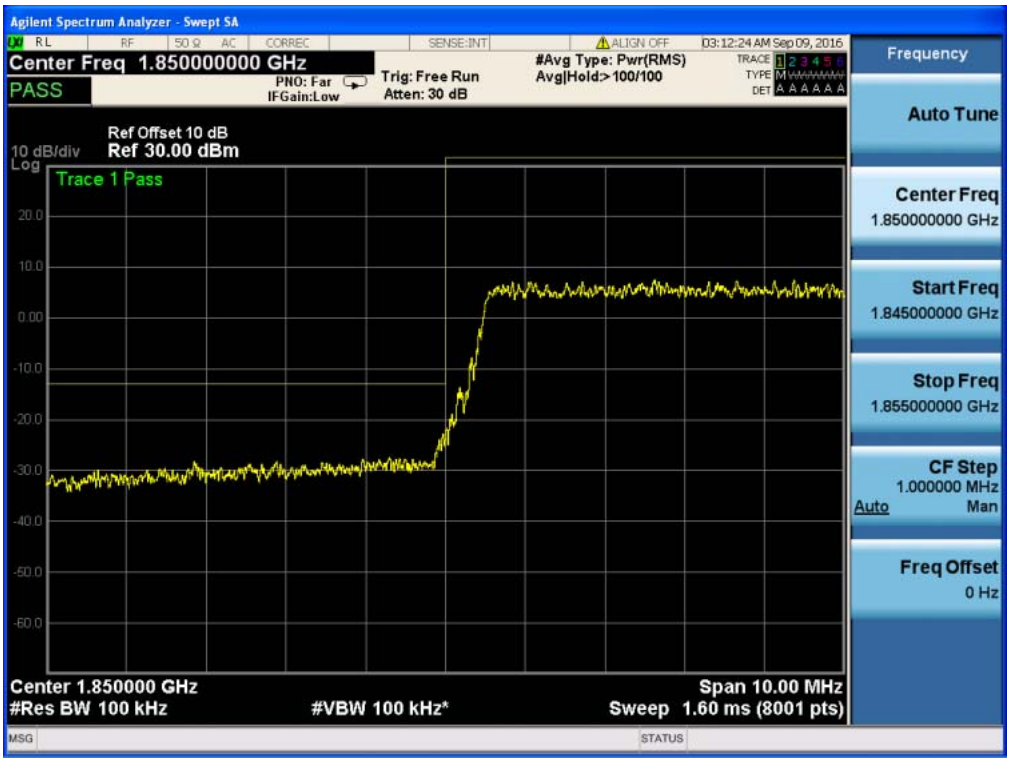
Band 2,UL Channel 19175,UL Frequency 1907.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM



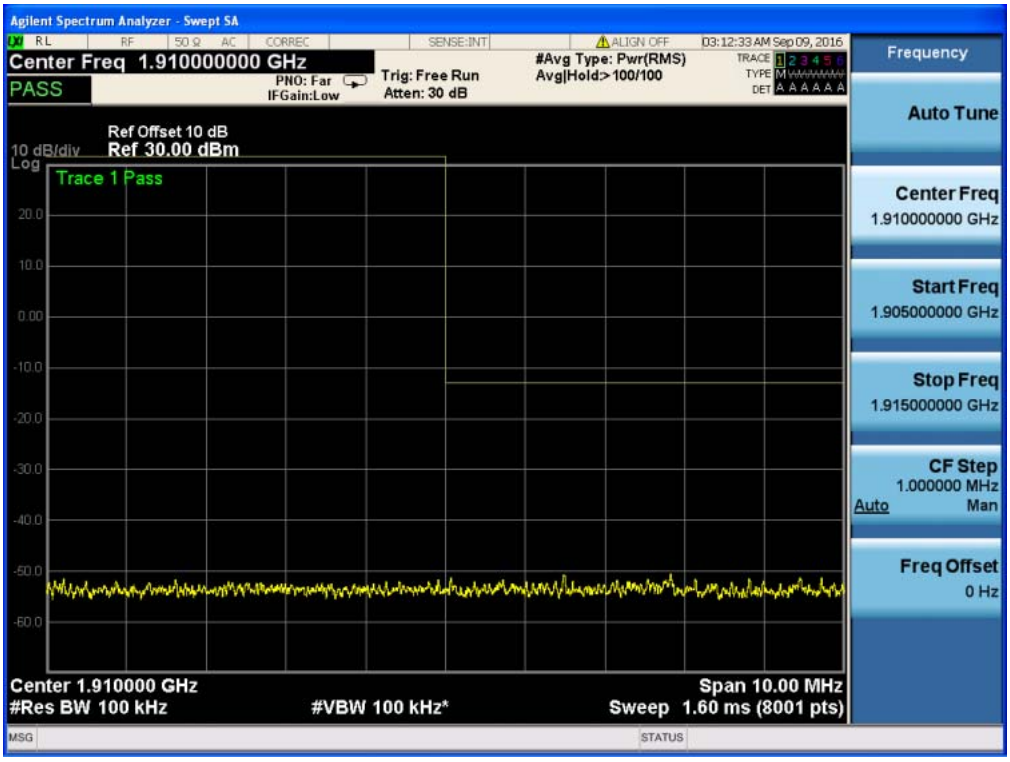
Band 2,UL Channel 19175,UL Frequency 1907.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM



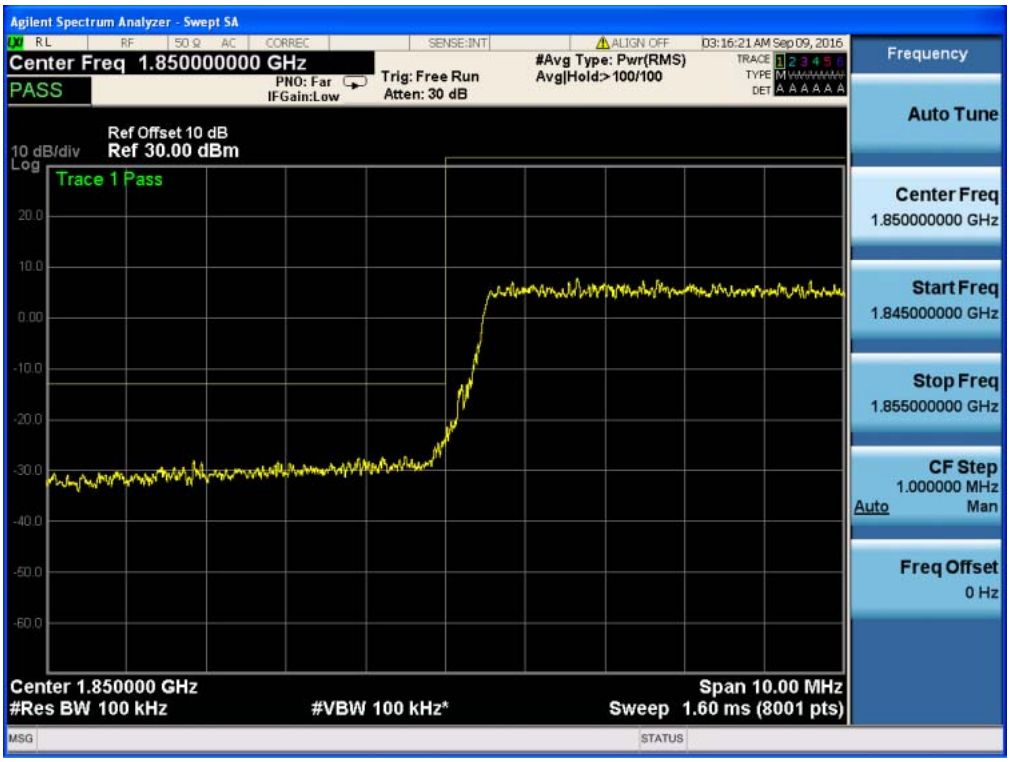
Band 2,UL Channel 18650,UL Frequency 1855.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



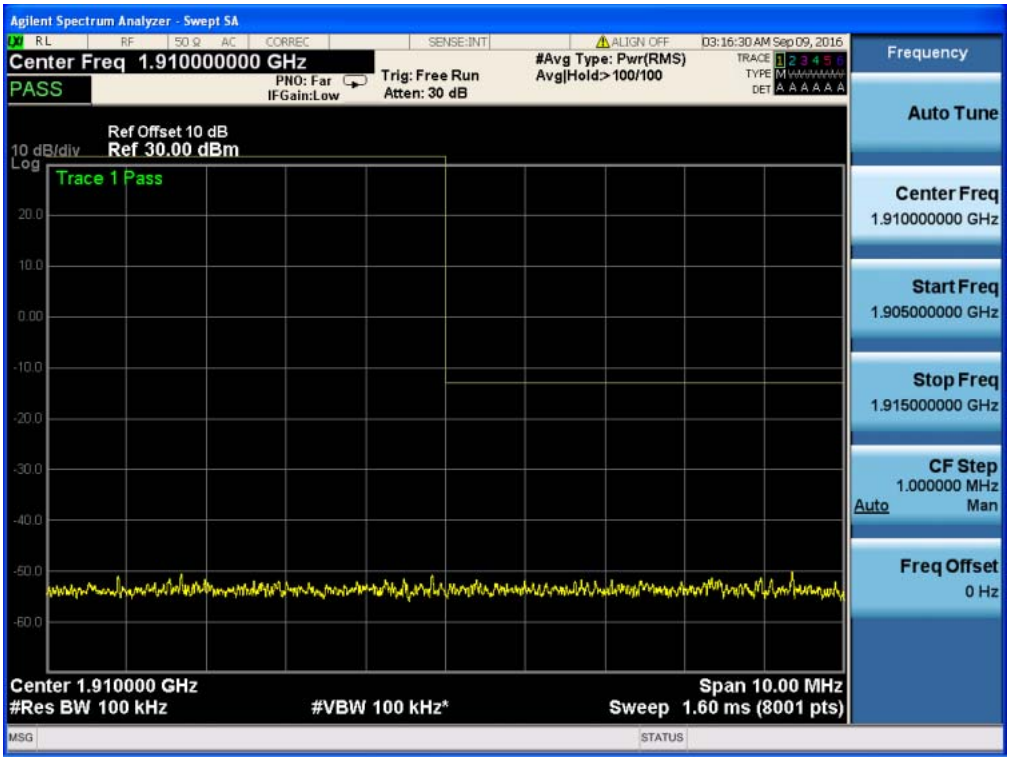
Band 2,UL Channel 18650,UL Frequency 1855.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



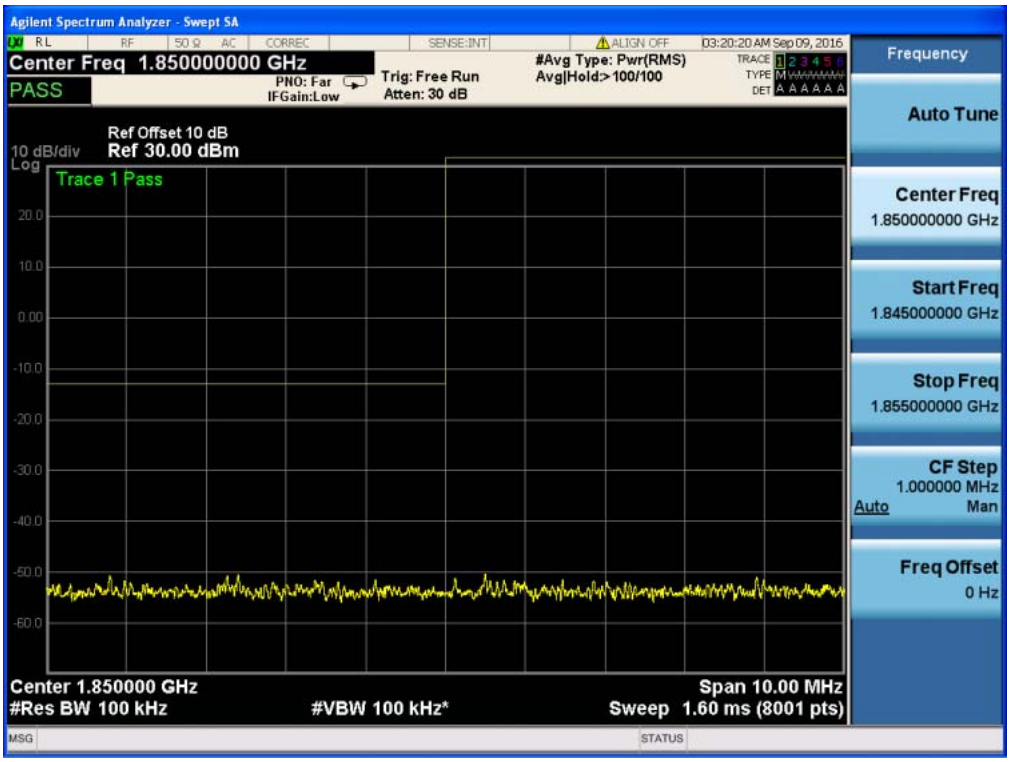
Band 2,UL Channel 18650,UL Frequency 1855.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



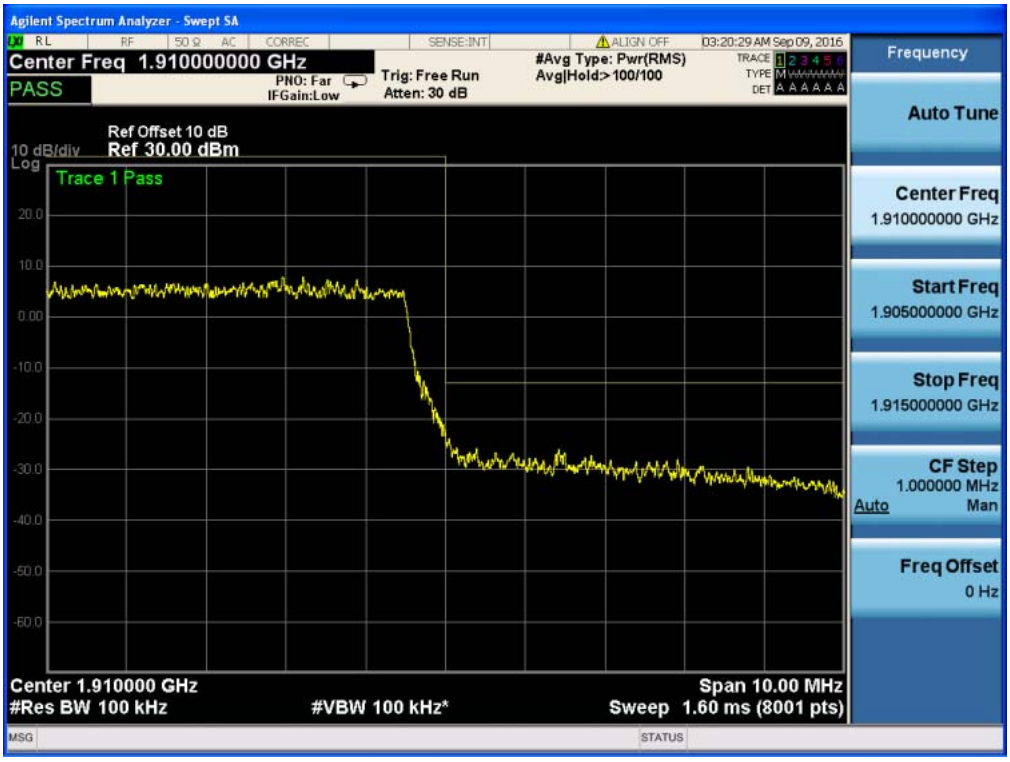
Band 2,UL Channel 18650,UL Frequency 1855.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



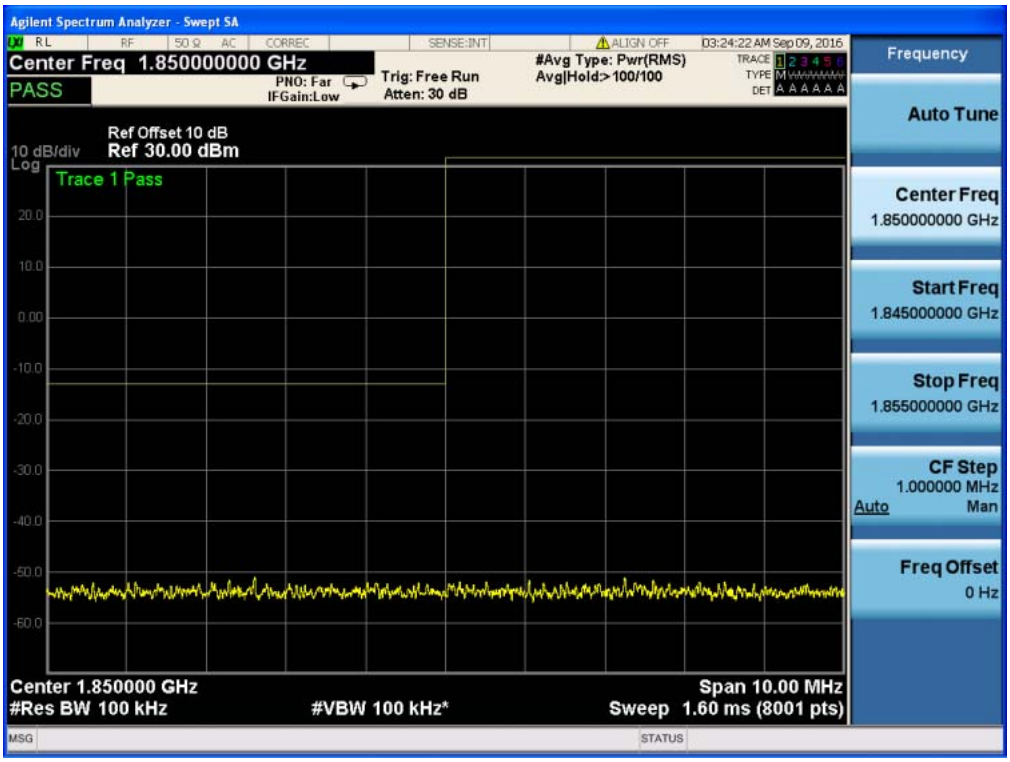
Band 2,UL Channel 19150,UL Frequency 1905.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



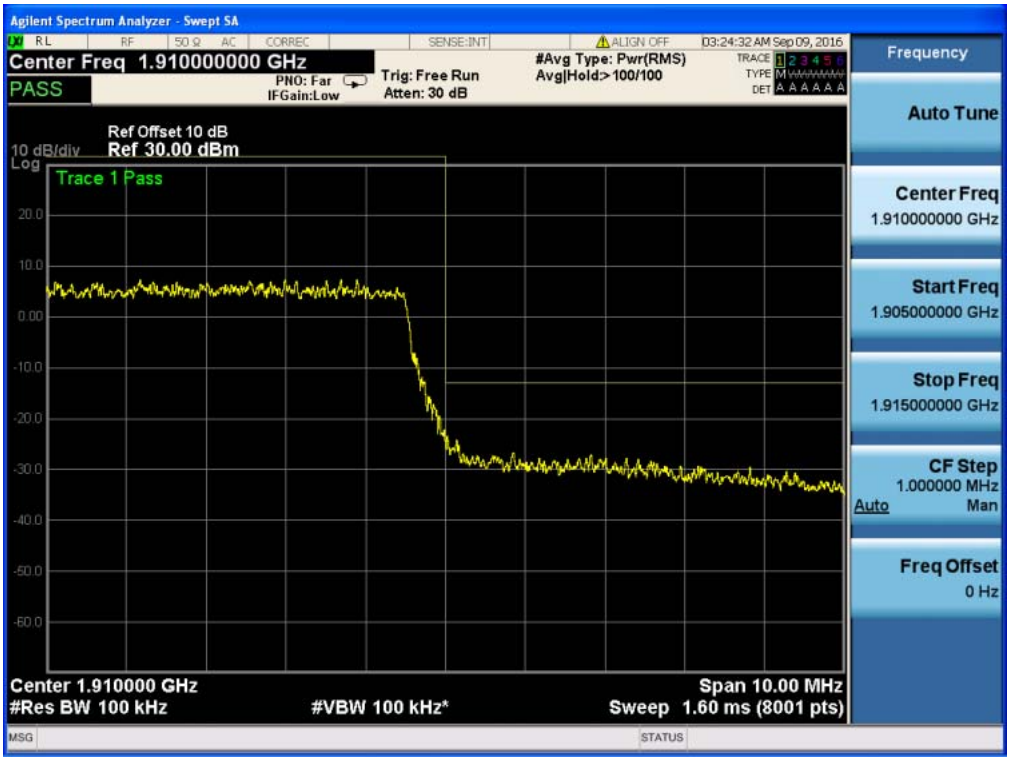
Band 2,UL Channel 19150,UL Frequency 1905.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



Band 2,UL Channel 19150,UL Frequency 1905.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM

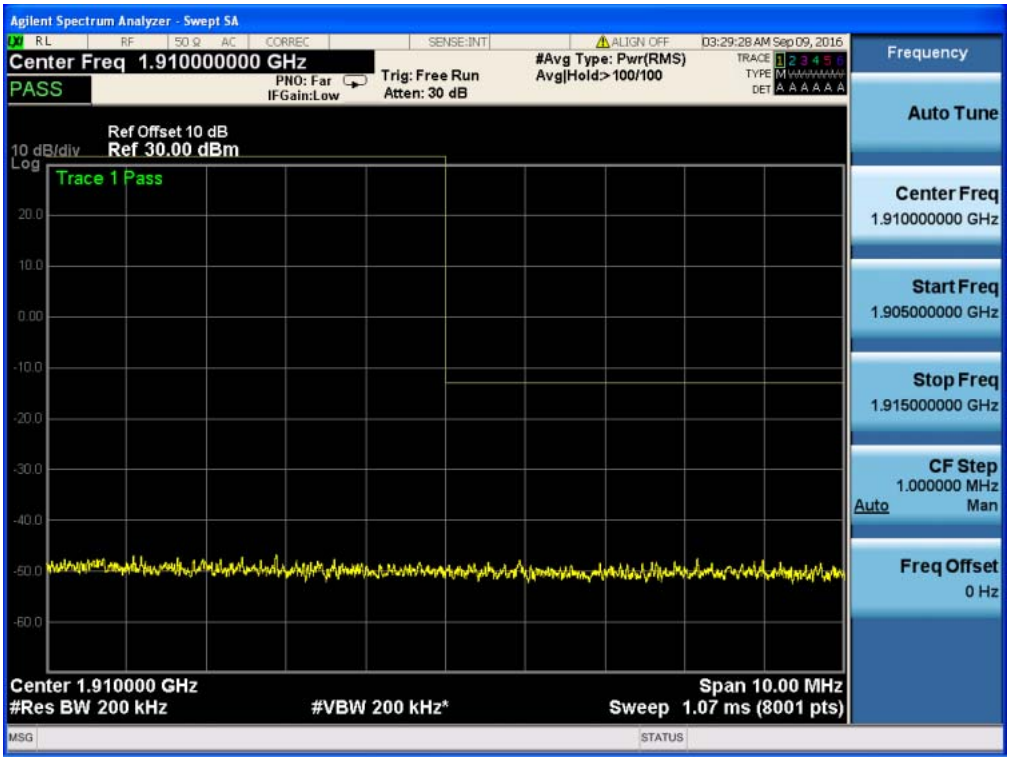


Band 2,UL Channel 19150,UL Frequency 1905.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



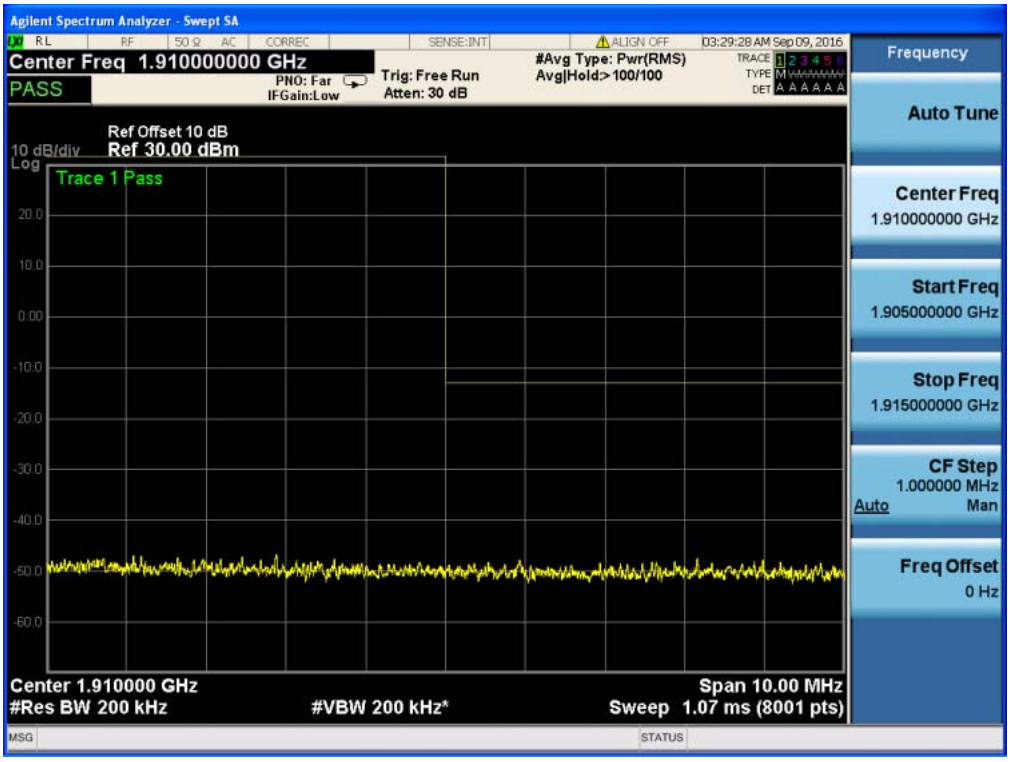
Band 2,UL Channel 18675,UL Frequency 1857.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK

Band 2,UL Channel 18675,UL Frequency 1857.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK

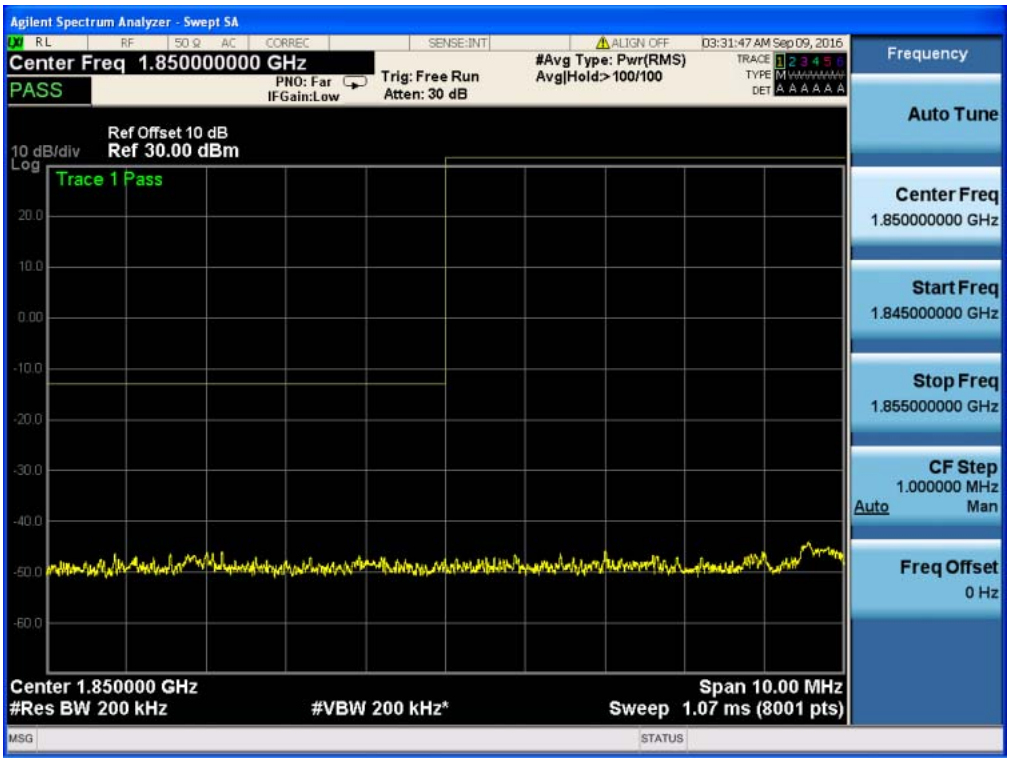


Band 2,UL Channel 18675,UL Frequency 1857.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM

Band 2,UL Channel 18675,UL Frequency 1857.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM

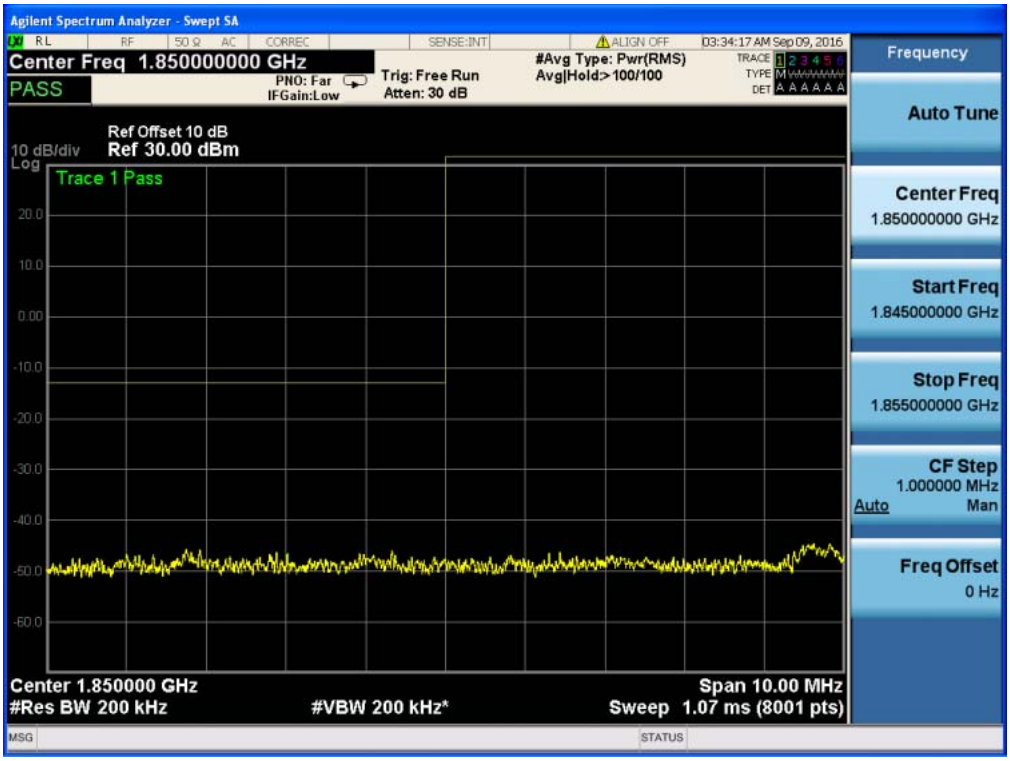


Band 2,UL Channel 19125,UL Frequency 1902.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



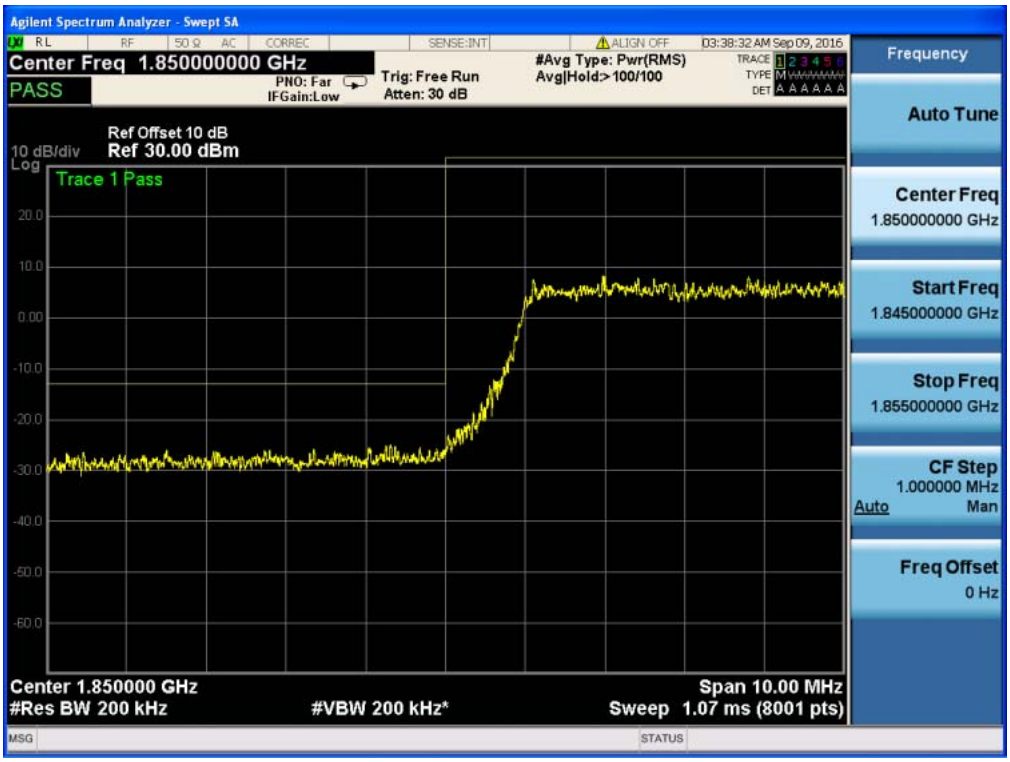
Band 2,UL Channel 19125,UL Frequency 1902.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK

Band 2,UL Channel 19125,UL Frequency 1902.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM

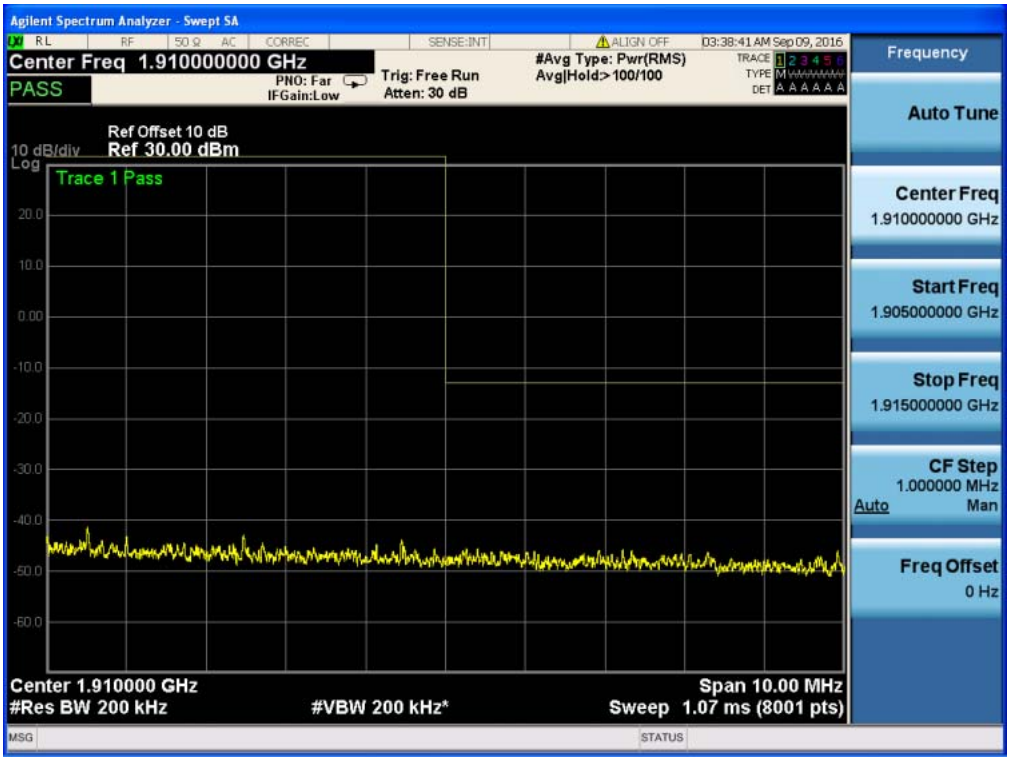


Band 2,UL Channel 19125,UL Frequency 1902.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM

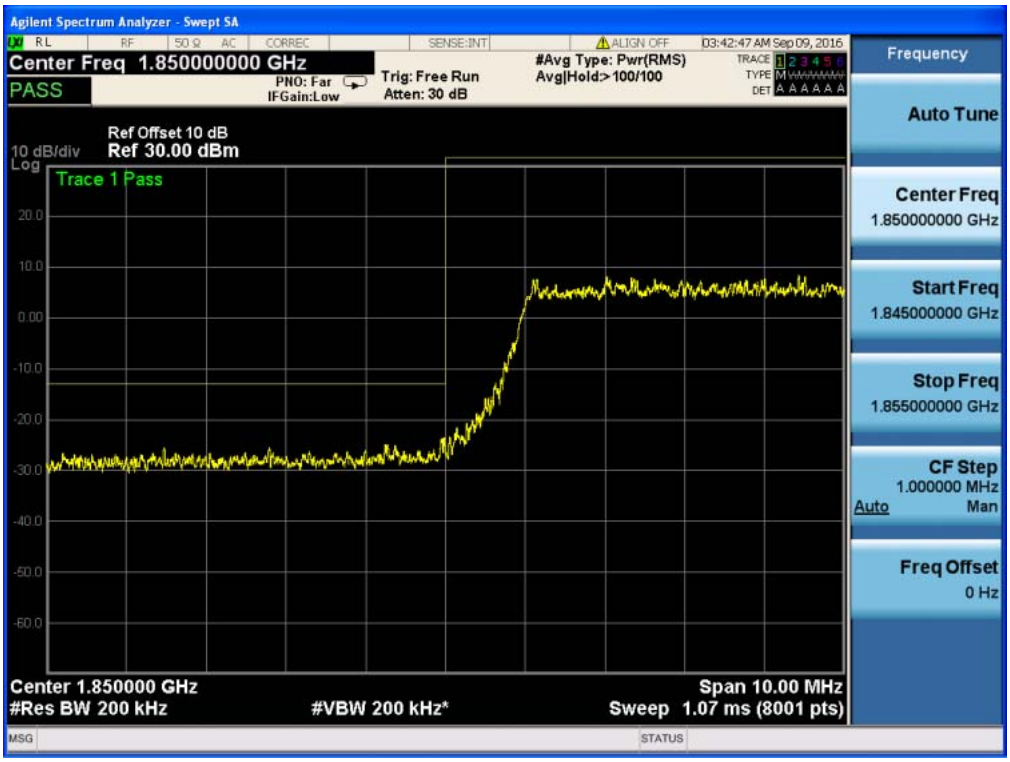
Band 2,UL Channel 18700,UL Frequency 1860.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK



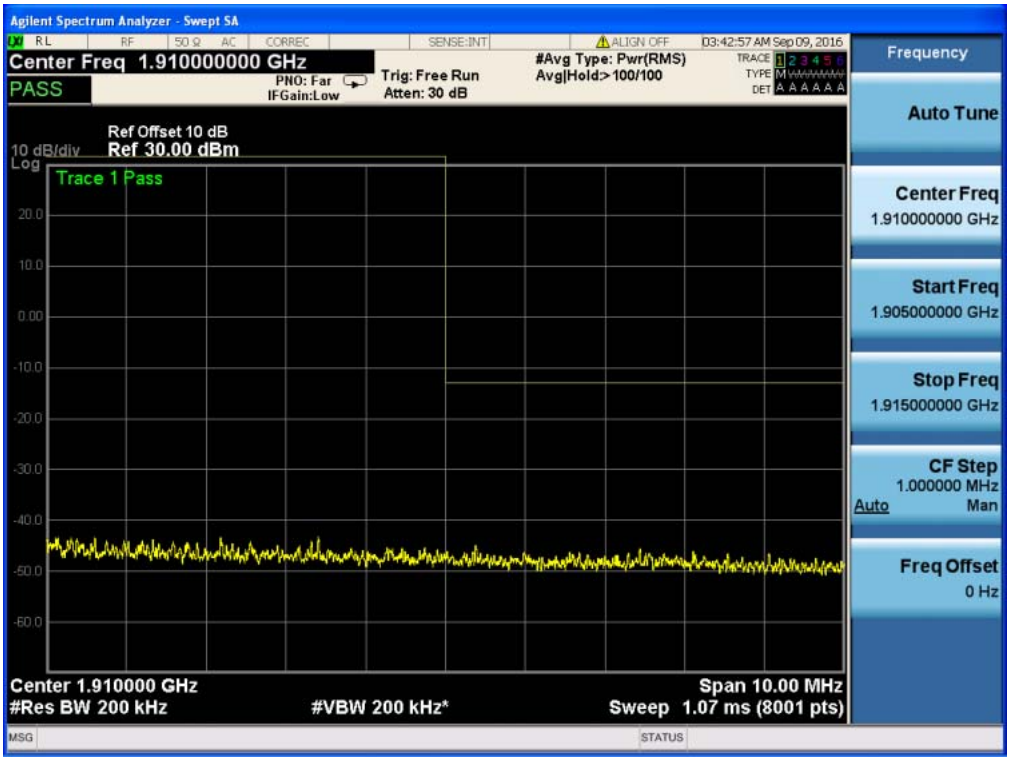
Band 2,UL Channel 18700,UL Frequency 1860.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK



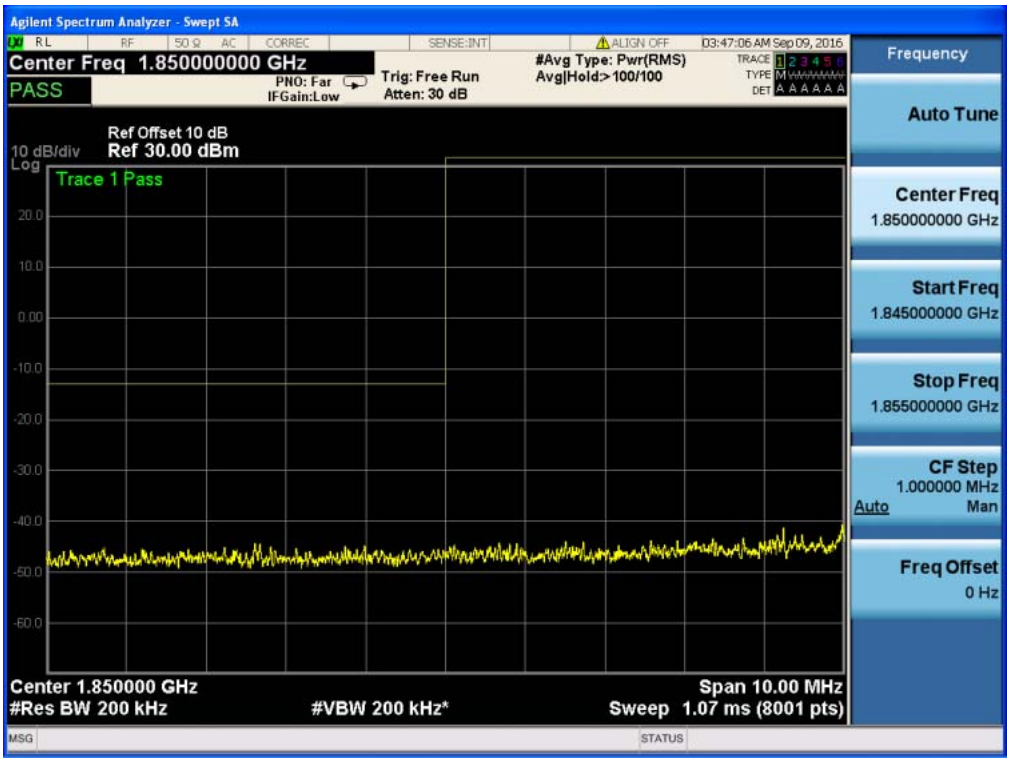
Band 2,UL Channel 18700,UL Frequency 1860.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM



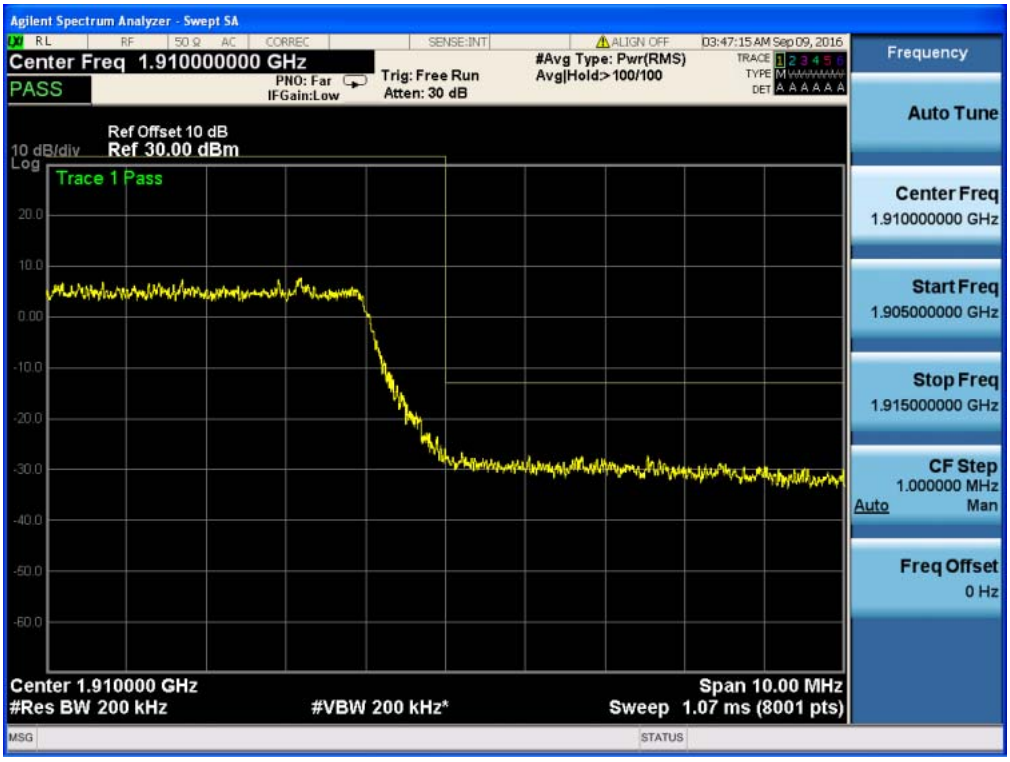
Band 2,UL Channel 18700,UL Frequency 1860.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM



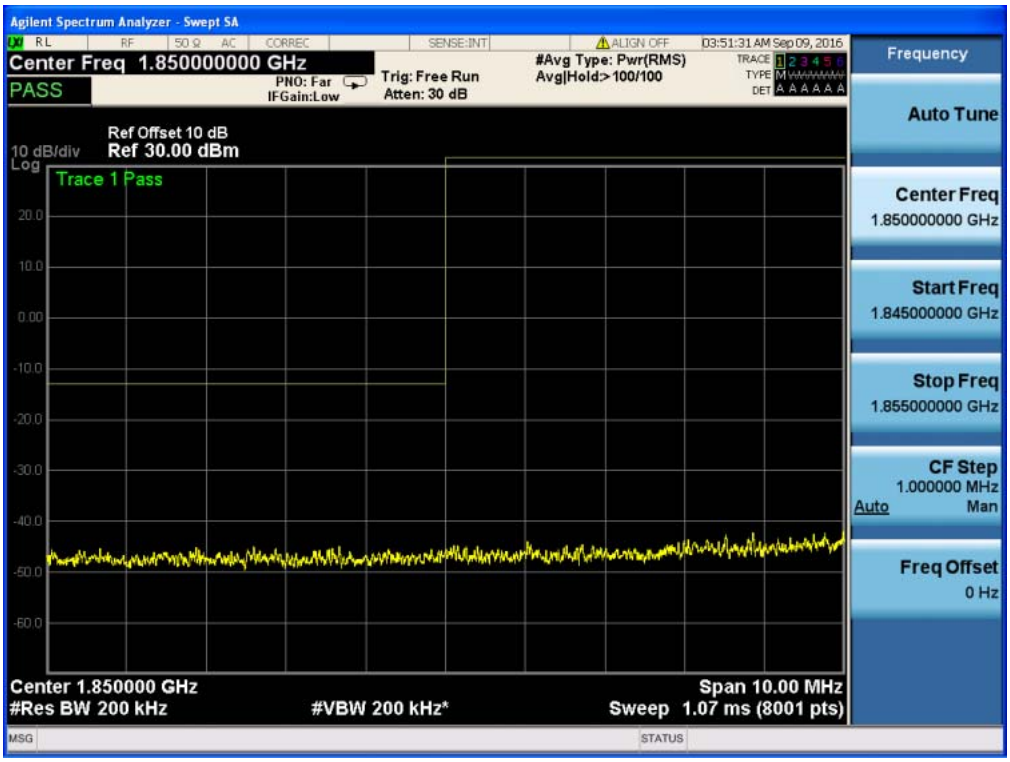
Band 2,UL Channel 19100,UL Frequency 1900.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK



Band 2,UL Channel 19100,UL Frequency 1900.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK



Band 2,UL Channel 19100,UL Frequency 1900.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM



Band 2,UL Channel 19100,UL Frequency 1900.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM