

FCC CFR47 PART 22H, 24E, 27 CERTIFICATION TEST REPORT

FCC ID: 2AFL2-KTAMCI

Product: KTA Smart phone

Trade Name: KTA Mobile

Model Number: NuLoop Starline

Serial Model: N/A

Report No.: NTEK-2016NT09088824F6

Prepared for

KTA Mobile Communications, Inc.

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name:	KTA Mobile Communications, Inc.
Address:	299 Broadway Suite 1518 New York, NY 10007 United States
Manufacturer's Name:	ShenZhen Zhouji Hengtong technology Co.,Ltd
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Product name:	KTA Smart phone
Model and/or type reference:	NuLoop Starline
Serial Model:	N/A
Standards:	FCC CFR 47 Part 22H, Part 24E, Part 27
Test procedure:	ANSI C63.4-2014
	n tested by NTEK, and the test results show that the equipment the the the test results show that the equipment that the FCC requirements. And it is applicable only to the tested
·	scept in full, without the written approval of NTEK, this document ersonal only, and shall be noted in the revision of the document.
Date of Test	
Date (s) of performance of tests	. 08 Sep. 2016 ~ 08 Oct. 2016
Date of Issue	08 Oct. 2016
Test Result	. Pass
Testing Engineer	: Eileen Wu- (Janon chen)
Technical Manage	(Jason Chen)
Authorized Signa	tory: Sam. Chan

(Sam Chen)



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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

7 Thajor tooriinoar acc	scription of EOT is described as following.
Product Designation:	KTA Smart phone
Hardware version:	N/A
Software version:	N/A
FCC ID:	2AFL2-KTAMCI
Frequency Bands:	U.S. Bands: ⊠LTE FDD Band 2,4,5,7,17
Frequency Range:	LTE Band 2 Uplink: 1850.7MHz-1909.3MHz, Downlink: 1930.7MHz-1989.3MHz LTE Band 4 Uplink: 1710MHz-1755MHz, Downlink: 2110MHz-2155MHz LTE Band 5 Uplink: 824.7MHz-848.3MHz, Downlink: 869.7MHz-893.3MHz LTE Band 7 Uplink: 2500MHz-2570MHz, Downlink: 2620MHz-2690MHz LTE Band 17 Uplink: 706.5MHz-713.5MHz, Downlink: 736.5MHz-743.5MHz
Type of Modulation:	QPSK/16QAM
Antenna:	FPCB Antenna
Antenna gain:	1.0dBi
Power Supply:	DC 3.8V/3000mAh from Battery or DC 5V from Adapter.
Battery parameter:	DC 3.8V/3000mAh
Adapter:	Model: NuLoop Starline Input:AC 100~240V 50/60Hz 0.1A 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	ge 4.4V and Low Voltage 3.6V was declared by manufacturer. The EUT

^{**} 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: 2AFL2-KTAMCI** filing to comply with the FCC Part 22H&24E &27.

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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: 2014.

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 5, 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

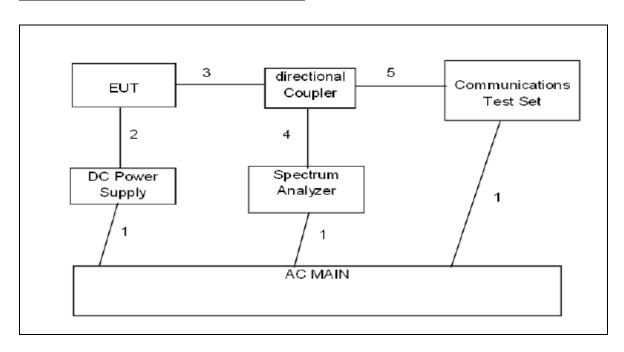
Item	Equipment	Model No.	ID or Specification	Note
1	KTA Smart phone	NuLoop Starline	FCC ID: 2AFL2-KTAMCI	EUT

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

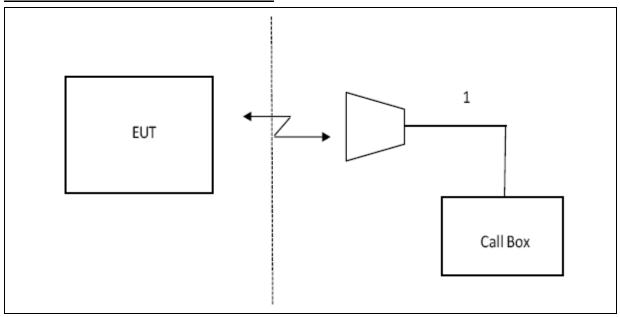


2.4 TEST SETUP CONDUCTED SETUP DIAGRAM FOR TESTS

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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.

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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	Cha	Channel bandwidth / Transmission bandwidth (RB)							
	1.4 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 ($N_{ m RB}$)	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
			3	>5	≤ 1
			5	>6	≤ 1
NS_03	6.6.2.2.1	2, 4,10, 23, 25, 35, 36	10	>6	≤ 1
		55, 55	15	>8	≤ 1
			20	>10	≤ 1
NO 04	66000	41	5	>6	≤ 1
NS_04	6.6.2.2.2	41	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
NO 07	6.6.2.2.3	13	10	T-bl- 0040	T-bl- 0040
NS_07	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
NIC OO	66004	01	10.15	> 40	≤ 1
NS_09	6.6.3.3.4	21	10, 15	> 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'	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
NS_32	-	-	-	-	-
Note 1: A	pplies to the lower	block of Band 23, i.e	. a carrier place	d in the 2000-20	10 MHz region.

The test setup please refer to Section 2.4 CONDUCTED SETUP DIAGRAM FOR TESTS of this report.



4.1.2 LTE BAND 2

OUTPUT POWER FOR LTE BAND 2 (1.4MHZ)

Band	Band	Band Channel Frequency Modulation RB Configuration		guration	Average	Peak		
Dallu	Width	Chamie	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.28	27.01
					1	Mid	22.37	27.09
				ODCIZ	1	High	22.29	27.04
				QPSK	3	Low	22.39	27.65
					3	High	22.42	27.72
	1 41/11	10607	10507		6	Low	21.26	27.27
	1.4MHz	18607	1850.7		1	Low	21.31	26.51
					1	Mid	21.39	26.60
				16QAM	1	High	21.33	26.50
					3	Low	22.42	27.73
					3	High	22.41	27.72
					6	Low	20.22	27.13
			1000.0	QPSK	1	Low	22.21	27.10
					1	Mid	22.27	27.10
					1	High	22.22	27.09
					3	Low	22.35	27.51
		18900			3	High	22.36	27.54
Band	1 41/11				6	Low	21.19	27.58
2	1.4MHz		1880.0		1	Low	21.24	26.75
				16QAM	1	Mid	21.29	26.78
					1	High	21.25	26.73
					3	Low	22.36	27.57
					3	High	22.36	27.57
					6	Low	20.23	26.94
					1	Low	22.35	26.38
					1	Mid	22.26	26.32
				ODCK	1	High	22.29	26.43
				QPSK	3	Low	22.34	26.74
					3	High	22.23	26.75
	1 41/11	10102	1000.2		6	Low	21.34	26.76
	1.4MHz	19193	1909.3		1	Low	21.43	25.84
					1	Mid	21.47	25.88
				16QAM	1	High	21.43	25.85
					3	Low	22.24	26.77
					3	High	22.21	26.73
					6	Low	20.34	26.47



OUTPUT POWER FOR LTE BAND 2 (3.0MHZ)

Dond	Band	Channel	Frequency	Modulation	RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.25	26.88
					1	Mid	22.26	26.94
				ODCK	1	High	22.24	26.90
				QPSK	8	Low	22.23	26.93
					8	High	22.23	26.92
	2 0 MHz	10615	10515		15	Low	21.35	27.86
3.0 MHz	18615	1851.5		1	Low	21.85	27.39	
				1	Mid	21.87	27.46	
				16QAM	1	High	21.82	27.48
					8	Low	21.81	27.47
					8	High	21.81	27.47
					15	Low	20.43	27.66
			1880.0	QPSK	1	Low	22.21	26.98
					1	Mid	22.25	27.02
					1	High	22.19	27.00
					8	Low	22.20	26.99
					8	High	22.20	26.99
Band	3.0 MHz	18900			15	Low	21.29	27.63
2	3.0 MHZ	18900			1	Low	21.37	26.21
				16QAM	1	Mid	21.40	26.24
					1	High	21.36	26.21
					8	Low	21.35	26.21
					8	High	21.34	26.20
					15	Low	20.28	26.86
					1	Low	22.35	26.42
					1	Mid	22.38	26.35
				ODCK	1	High	22.27	26.33
				QPSK	8	Low	22.24	26.33
					8	High	22.23	26.32
	2 0 MHz	10105	1009 5		15	Low	21.36	28.02
	3.0 MHz	19185	1908.5		1	Low	21.35	26.01
					1	Mid	21.34	25.98
				16QAM	1	High	21.32	26.01
					8	Low	21.31	26.01
					8	High	21.31	26.02
					15	Low	20.41	27.07



OUTPUT POWER FOR LTE BAND 2 (5.0MHZ)

	Band		Frequency		RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.34	27.07
					1	Mid	22.24	27.08
				ODCK	1	High	22.31	27.22
				QPSK	12	Low	21.42	27.78
					12	High	21.37	27.80
	5 0 MH-	10625	1052.5		25	Low	21.35	28.17
	5.0 MHz	18625	1852.5		1	Low	21.40	26.58
					1	Mid	21.31	26.61
				16QAM	1	High	21.34	26.68
					12	Low	21.38	27.83
					12	High	21.38	27.86
					25	Low	20.48	27.67
		18900			1	Low	22.37	26.82
					1	Mid	22.35	26.75
			1000.0	QPSK	1	High	22.33	26.81
					12	Low	21.34	27.50
					12	High	21.34	27.45
Band	503577				25	Low	21.29	27.70
2	5.0 MHz		1880.0	16QAM	1	Low	21.66	27.18
					1	Mid	21.65	27.14
					1	High	21.63	27.19
					12	Low	21.32	27.54
					12	High	21.32	27.54
					25	Low	20.25	27.52
					1	Low	22.45	26.75
					1	Mid	22.30	26.45
				OBGIA	1	High	22.26	26.47
				QPSK	12	Low	21.45	27.02
					12	High	21.31	26.76
		10155	1005.5		25	Low	21.34	27.42
	5.0 MHz	19175	1907.5		1	Low	21.54	26.68
					1	Mid	21.49	26.50
				16QAM	1	High	21.48	26.53
				-	12	Low	21.33	26.93
					12	High	21.33	27.00
					25	Low	20.34	27.06



OUTPUT POWER FOR LTE BAND 2 (10.0MHZ)

	Band		Frequency		RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.31	26.90
					1	Mid	22.14	26.98
				ODCV	1	High	21.71	26.85
				QPSK	25	Low	21.30	27.49
					25	High	21.13	27.57
	10.0	19650	1055.0		50	Low	21.23	27.55
	MHz	18650	1855.0		1	Low	21.90	27.43
					1	Mid	21.78	27.63
				16QAM	1	High	21.36	27.64
					25	Low	21.26	27.45
					25	High	21.32	27.32
					50	Low	21.20	27.46
					1	Low	22.24	26.96
					1	Mid	22.29	26.93
				ODGIZ	1	High	22.29	27.01
				QPSK	25	Low	21.27	27.40
					25	High	21.32	27.42
Band	10.0	10000	1000.0		50	Low	21.31	27.56
2	MHz	18900	1880.0		1	Low	21.87	27.64 27.45 27.32 27.46 26.96 26.93 27.01 27.40 27.42
					1	Mid	21.87	27.41
				16QAM	1	High	21.93	27.55
					25	Low	21.32	27.48
					25	High	21.32	27.44
					50	Low	20.37	27.76
					1	Low	22.02	27.09
					1	Mid	22.36	26.69
				ODGIV	1	High	22.08	26.46
				QPSK	25	Low	21.07	27.07
					25	High	21.45	27.00
	10.0	10150	1005.0		50	Low	21.24	27.30
	MHz	19150	1905.0		1	Low	20.98	26.08
					1	Mid	21.43	26.03
				16QAM	1	High	21.18	25.79
					25	Low	21.39	26.97
					25	High	21.38	26.86
					50	Low	20.22	26.69



OUTPUT POWER FOR LTE BAND 2 (15.0MHZ)

	Band		Frequency		RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.39	26.98
					1	Mid	22.11	27.16
				QPSK	1	High	21.96	27.05
				QPSK	36	Low	21.34	27.53
					36	High	21.00	27.52
	15.0	18675	1857.5		75	Low	21.14	28.29
	MHz	10073	1637.3		1	Low	21.99	27.46
					1	Mid	21.72	27.82
				16QAM	1	High	21.60	27.76
					36	Low	20.97	27.50
					36	High	20.95	27.47
					75	Low	20.18	27.57
					1	Low	22.11	27.09
					1	Mid	22.21	27.05
				ODCK	1	High	22.36	27.45
				QPSK	36	Low	21.21	27.31
					36	High	21.42	27.48
Band	15.0	10000	1000.0		75	Low	21.32	28.18
2	MHz	18900	1880.0		1	Low	21.31	26.27
					1	Mid	21.47	Power(dBm) 26.98 27.16 27.05 27.53 27.52 28.29 27.46 27.82 27.76 27.50 27.47 27.57 27.09 27.05 27.45 27.48 28.18
				16QAM	1	High	21.54	
					36	Low	21.42	27.53
					36	High	21.43	27.53
					75	Low	20.43	27.56
					1	Low	21.88	26.98
					1	Mid	21.81	26.47
				ODGIV	1	High	22.11	26.23
				QPSK	36	Low	20.68	27.30
					36	High	21.17	27.05
	15.0	10125	1002.5		75	Low	20.94	27.75
	MHz	19125	125 1902.5		1	Low	21.22	26.59
					1	Mid	21.21	27.45 27.31 27.48 28.18 26.27 26.30 26.53 27.53 27.56 26.98 26.47 26.23 27.30 27.05 27.75 26.59 26.21 26.05 27.04 26.99
				16QAM	1	High	21.51	
					36	Low	21.18	27.04
					36	High	21.19	26.99
					75	Low	20.00	27.19



OUTPUT POWER FOR LTE BAND 2 (20.0MHZ)

	Band		Frequency		RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.42	27.16
					1	Mid	21.96	27.33
				ODGIZ	1	High	21.85	27.08
				QPSK	50	Low	21.22	27.68
					50	High	20.82	27.45
	20.0	10700	1060.0		100	Low	21.03	27.67
	MHz	18700	1860.0		1	Low	21.74	27.01
					1	Mid	21.32	27.22
				16QAM	1	High	21.16	26.97
					50	Low	20.84	27.46
					50	High	20.83	27.51
					100	Low	20.12	28.22
					1	Low	22.12	26.99
					1	Mid	22.28	26.87
				ODGIZ	1	High	22.40	27.37
				QPSK	50	Low	21.15	27.39
					50	High	21.37	27.57
Band	20.0	10000	1000.0		100	Low	21.28	27.81
2	MHz	18900	1880.0		1	Low	21.32	27.45
				ļ	1	Mid	21.58	27.27
				16QAM	1	High	21.64	27.84
					50	Low	21.38	27.57
					50	High	21.38	27.59
					100	Low	20.38	27.69
					1	Low	22.34	27.58
					1	Mid	21.68	26.93
				ODGIZ	1	High	22.20	26.46
				QPSK	50	Low	20.77	27.54
					50	High	21.10	27.14
	20.0	10100	10000		100	Low	20.95	27.70
	MHz	19100	1900.0		1	Low	21.86	27.44
					1	Mid	21.28	26.86
				16QAM	1	High	21.83	26.45
					50	Low	21.13	27.17
					50	High	21.12	27.12
					100	Low	20.01	27.56



4.1.3 LTE BAND 4 OUTPUT POWER FOR LTE BAND 4 (1.4MHZ)

D 1	Band	Cl 1	Frequency	Madalatian	RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.01	26.59
					1	Mid	22.05	26.66
				ODGM	1	High	22.04	26.63
				QPSK	3	Low	22.14	26.97
					3	High	22.13	27.03
	1 43 477	10057	17107		6	Low	21.01	27.16
	1.4MHz	19957	1710.7		1	Low	21.01	26.21
					1	Mid	21.04	26.28
				16QAM	1	High	21.04	26.25
					3	Low	22.12	27.03
					3	High	22.12	27.02
					6	Low	20.02	26.81
					1 Low 21.95	27.09		
					1	Mid	21.98	27.08
				ODGIV	1	High	21.95	26.94
				QPSK	3	Low	22.07	27.40
					3	High	22.06	27.31
Band	1 43 477	20175	1722 5		6	Low	20.93	26.82
4	1.4MHz	20175	1732.5		1	Low	21.11	26.20
					1	Mid	21.15	26.16
				16QAM	1	High	21.11	26.14
					3	Low	22.07	26.94 27.40 27.31 26.82 26.20 26.16 26.14 27.36 27.35 26.86
					3	High	22.07	27.35
					6	Low	19.99	26.86
					1	Low	21.95	26.87
					1	Mid	22.04	27.05
				ODCIZ	1	High	21.98	27.00
				QPSK	3	Low	22.09	27.50
					3	High	22.14	27.62
	1 43 477	20202	17542		6	Low	20.96	27.00
	1.4MHz	20393	1754.3		1	Low	21.01	26.32
					1	Mid	21.11	26.59
				16QAM	1	High	21.04	26.63 26.97 27.03 27.16 26.21 26.28 26.25 27.03 27.02 26.81 27.09 27.08 26.94 27.40 27.31 26.82 26.20 26.16 26.14 27.36 27.35 26.86 26.87 27.05 27.00 27.50 27.62 27.00 26.32
					3	Low	22.13	27.61
				-	3	High	22.14	27.63
					6	Low	19.93	26.87



OUTPUT POWER FOR LTE BAND 4 (3.0MHZ)

	Band		Frequency		RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	21.97	26.26
					1	Mid	21.98	26.34
				QPSK	1	High	21.93	26.33
				QFSK	8	Low	21.93	26.33
					8	High	21.93	26.32
	3.0 MHz	19965	1711.5		15	Low	21.07	26.82
	3.0 MITZ	19903	1/11.5		1	Low	21.54	
					1	Mid	21.55	26.81
				16QAM	1	High	21.49	26.82
					8	Low	21.50	26.81
					8	High	21.50	26.82
					15	Low	20.13	26.74
					1	Low	21.96	27.16
					1	Mid	22.01	27.01
				ODCK	1	High	21.93	26.82
				QPSK	8	Low	21.94	26.87
					8	High	21.94	26.85
Band	2 0 MH-	20175	1722 5		15	Low	21.01	27.29
4	3.0 MHz	20175	1732.5		1	Low	21.14	26.26
					1	Mid	21.14	26.32 26.82 26.73 26.81 26.82 26.81 26.82 26.74 27.16 27.01 26.82 26.87 26.85 27.29 26.26 26.13 26.05 26.03 26.04 26.94 26.86 27.04 26.14 26.40
				16QAM	1	High	21.08	
					8	Low	21.08	26.03
					8	High	21.08	26.04
					15	Low	19.98	26.94
					1	Low	21.94	26.61
					1	Mid	21.99	26.86
				ODGIZ	1	High	21.96	27.04
				QPSK	8	Low	21.97	27.04
					8	High	21.97	27.04
	201411	20205	1752.5		15	Low	21.05	27.97
	3.0 MHz	20385	1753.5		1	Low	21.00	26.14
					1	Mid	21.05	26.40
				16QAM	1	High	21.01	26.46
				ToQAW	8	Low	21.00	26.46
					8	High	21.01	26.43
					15	Low	20.11	26.99



OUTPUT POWER FOR LTE BAND 4 (5.0MHZ)

	Band		Frequency		RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.05	26.41
					1	Mid	22.04	26.50
				ODCK	1	High	22.00	26.64
				QPSK	12	Low	21.08	27.04
					12	High	21.05	27.20
	5 O MII.	19975	1712.5		25	Low	21.02	27.68
	5.0 MHz	19975	1712.5		1	Low	21.07	25.96
					1	Mid	21.06	26.08
				16QAM	1	High	21.03	26.15
					12	Low	21.06	27.16
					12	High	21.06	27.19
					25	Low	20.13	26.95
					1	Low	22.03	26.91
					1	Mid	22.06	26.65
				ODCK	1	High	22.01	26.42
				QPSK	12	Low	21.03	27.43
					12	High	21.03	27.04
Band	5 O MII.	20175	1722.5		25	Low	20.98	27.51
4	5.0 MHz	20175	1732.5		1	Low	21.43	27.41
					1	Mid	21.38	27.12
				16QAM	1	High	21.32	26.85
					12	Low	21.03	27.25
					12	High	21.03	27.24
					25	Low	19.95	27.21
					1	Low	22.01	26.56
					1	Mid	22.04	26.96
				QPSK	1	High	22.02	27.35
				QPSK	12	Low	21.06	26.98
					12	High	21.02	27.28
	5 O MII.	20275	1752.5		25	Low	21.00	27.53
	5.0 MHz	20375	1752.5		1	Low	21.15	26.53
					1	Mid	21.23	26.95
				16QAM	1	High	21.23	27.27
					12	Low	21.01	27.26
					12	High	21.89	27.36
					25	Low	21.82	27.84



OUTPUT POWER FOR LTE BAND 4 (10.0MHZ)

	Band		Frequency		RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.07	26.34
					1	Mid	22.06	26.66
				ODCV	1	High	21.99	26.95
				QPSK	25	Low	21.07	26.89
					25	High	21.09	27.34
	10.0	20000	1715.0		50	Low	21.08	27.16
	MHz	20000	1715.0		1	Low	21.61	26.75
					1	Mid	21.66	27.11
				16QAM	1	High	21.65	27.65
					25	Low	21.10	27.33
					25	High	21.09	27.26
					50	Low	20.11	27.40
					1	Low	21.96	27.46
					1	Mid	22.01	27.02
				OBGIA	1	High	22.02	26.50
				QPSK	25	Low	21.01	27.36
					25	High	21.04	27.05
Band	10.0	20175	1500.5		50	Low	21.05	27.40
4	MHz	20175	1732.5		1	Low	21.04	26.36
					1	Mid	21.18	26.34 26.66 26.95 26.89 27.34 27.16 26.75 27.11 27.65 27.33 27.26 27.40 27.46 27.02 26.50 27.36 27.36 27.36 27.36
				16QAM	1	High	21.15	25.80
					25	Low	21.05	27.09
					25	High	21.05	27.10
					50	Low	20.03	27.21
					1	Low	22.04	25.92
					1	Mid	22.05	26.38
				OBGIA	1	High	21.45	26.71
				QPSK	25	Low	20.98	26.58
					25	High	21.03	27.25
	10.0	20250	1750.0		50	Low	21.01	26.95
	MHz	20350	0350 1750.0		1	Low	20.99	
					1	Mid	21.04	25.94
				16QAM	1	High	20.63	26.17
				16QAM	25	Low	21.03	
					25	High	21.02	27.22
					50	Low	20.03	



OUTPUT POWER FOR LTE BAND 4 (15.0MHZ)

	Band		Frequency		RB Config	guration	Average	Peak		
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)		
					1	Low	22.07	26.37		
					1	Mid	22.04	26.89		
				QPSK	1	High	22.02	27.22		
				QPSK	36	Low	21.14	27.00		
					36	High	21.11	27.53		
	15.0	20025	1717.5		75	Low	21.14	28.07		
	MHz	20023	1/1/.3		1	Low	21.66	26.81		
					1	Mid	21.67	27.44		
				16QAM	1	High	21.59	27.92		
					36	Low	21.11			
					36	High	21.11	27.51		
					75	Low	20.15	27.31		
					1	Low	22.06 27.54 22.03 27.01			
					1	Mid	22.03	27.01		
				ODCK	1	High	22.05	26.20		
				QPSK	36	Low	21.01	27.47		
					36	High	21.12	26.96		
Band	15.0	20175	1722.5		75	Low	21.10	27.92		
4	MHz	20175	1732.5		1	Low	21.25	26.50		
					1	Mid	21.18	26.19		
				16QAM	1	High	21.16	25.57		
					36	Low	21.13	27.92 27.49 27.51 27.31 27.54 27.01 26.20 27.47 26.96 27.92 26.50 26.19 25.57 26.97 26.99 27.33 25.85 26.02 26.66 26.38 26.97 27.33		
					36	High	21.10 21.25 21.18 21.16	26.99		
					75	Low		27.33		
					1	Low	22.03	25.85		
					1	Mid	22.05	26.02		
				ODGIZ	1	High	21.71	26.66		
				QPSK	36	Low	21.12	26.38		
					36	High	21.09	26.97		
	15.0	20225	1747.5		75	Low	21.12	27.33		
	MHz	20325	1747.5		1	Low	21.33	25.65		
					1	Mid	21.37	25.78		
				16QAM	1	High	21.35	26.46		
					36	Low	21.11	26.96		
					36	High	21.11	26.90		
					75	Low	20.07	26.78		



OUTPUT POWER FOR LTE BAND 4 (20.0MHZ)

	Band		Frequency		RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.09	26.53
					1	Mid	22.10	27.33
				ODCV	1	High	21.92	27.32
				QPSK	50	Low	21.11	27.17
					50	High	21.00	27.65
	20.0	20050	1720.0		100	Low	21.09	27.57
	MHz	20030	1720.0		1	Low	21.43	26.38
					1	Mid	21.43	27.13
				16QAM	1	High	21.35	27.25
					50	Low	21.00	27.62
					50	High	20.99	27.63
					100	Low	20.15	27.73
					1	Low	22.14	27.36
					1	Mid	22.09	26.88
				ODCK	1	High	22.12	25.99
				QPSK	50	Low	21.02	27.58
					50	High	21.07	26.84
Band	20.0	20175	1722.5		100	Low	21.05	27.56
4	MHz	20175	1732.5		1	Low	21.38	27.86
					1	Mid	21.31	27.58 26.84 27.56 27.86 27.30 26.24
				16QAM	1	High	21.27	26.24
					50	Low	21.06	26.87
					50	High	21.06	26.85
					100	Low	20.09	27.51
					1	Low	21.99	26.55
					1	Mid	22.05	25.97
				ODCIZ	1	High	21.67	26.88
				QPSK	50	Low	21.04	26.45
					50	High	21.08	26.78
	20.0	20200	1745.0		100	Low	21.03	27.14
	MHz	20300	00 1745.0		1	Low	21.55	26.50
					1	Mid	21.54	25.92
				16QAM	1	High	21.44	26.88
				IOQAM	50	Low	21.07	26.76
					50	High	21.08	26.78
					100	Low	20.03	26.78



4.1.4 LTE BAND 5

OUTPUT POWER FOR LTE BAND 5 (1.4MHZ)

Band	Band	Channel	Frequency	Modulation	RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	23.36	28.24
					1	Mid	23.39	28.31
				ODGIZ	1	High	23.37	28.33
				QPSK	3	Low	23.46	28.56
					3	High	23.46	28.66
	1 41 411	20407	9247		6	Low	22.35	28.73
	1.4MHz	20407	824.7		1	Low	22.37	27.83
					1	Mid	22.40	27.93
				16QAM	1	High	22.39	27.92
					3	Low	23.46	28.71
					3	High	23.45	28.74
					6	Low	21.36	28.18
					1	Low	23.25	28.49
					1	Mid	23.26	28.54
				ODGIV	1	High	23.23	28.45
				QPSK	3	Low	23.35	28.85
					3	High	23.32	28.78
Band	1 43 477	20525	026.5		6	Low	22.23	28.20
5	1.4MHz	20525	836.5		1	Low	22.41	27.53
					1	Mid	22.44	27.57
				16QAM	1	High	22.38	27.50
					3	Low	23.33	28.81
					3	High	23.33	28.80
					6	Low	21.26	28.25
					1	Low	23.17	27.62
					1	Mid	23.24	27.69
				ODGIZ	1	High	23.21	27.50
				QPSK	3	Low	23.25	28.15
					3	High	23.27	28.09
	4 43 577	20542			6	Low	22.17	27.88
	1.4MHz	20643	848.3		1	Low	22.18	27.20
					1	Mid	22.24	27.33
				16QAM	1	High	22.22	28.33 28.56 28.66 28.73 27.83 27.83 27.92 28.71 28.74 28.18 28.49 28.54 28.45 28.85 28.78 28.20 27.53 27.57 27.50 28.81 28.80 28.25 27.62 27.69 27.50 28.15 28.09 27.88 27.20
				-	3	Low	23.27	
					3	High	23.27	
					6	Low	21.07	



OUTPUT POWER FOR LTE BAND 5 (3.0MHZ)

	Band		Frequency		RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	23.31	27.81
					1	Mid	23.35	
				QPSK	1	High	23.28	27.92
				QFSK	8	Low	23.31	
					8	High	23.31	27.94
	3.0 MHz	20415	825.5		15	Low	22.42	28.23
	3.0 MITZ	20413	623.3		1	Low	22.87	28.37
					1	Mid	22.93	28.53
				16QAM	1	High	22.85	28.53
					8	Low	22.87	28.52
					8	High	22.86	28.53
					15	Low	21.46	27.98
					1	Low	23.25	28.48
					1	Mid	23.25	28.49
				ODGIZ	1	High	23.18	28.35
				QPSK	8	Low	23.18	28.35
					8	High	23.18	28.35
Band	20 MH	20525	926.5		15	Low	22.28	28.42
5	3.0 MHz	20525	836.5		1	Low	22.43	27.52
					1	Mid	22.41	27.97 27.92 27.93 27.94 28.23 28.37 28.53 28.53 28.52 28.53 27.98 28.48 28.49 28.35 28.35 28.35 28.35 28.35 28.42 27.52 27.55 27.42 27.44 27.42 28.03 27.71 27.67 27.55 27.55 27.55 27.55 27.55 27.55 27.55 27.55 27.55 27.55 27.71 27.67 27.55 27.18 27.16 27.17
				16QAM	1	High	22.32	
					8	Low	22.34	
					8	High	22.32	27.42
					15	Low	21.26	28.03
					1	Low	23.17	27.71
					1	Mid	23.19	27.67
				ODGIZ	1	High	23.17	27.55
				QPSK	8	Low	23.15	27.53
					8	High	23.16	27.55
	20141	20.625	0.47.5		15	Low	22.21	28.94
	3.0 MHz	20635	847.5		1	Low	22.19	27.18
					1	Mid	22.18	
				16QAM	1	High	22.19	
				16QAM	8	Low	22.19	
					8	High	22.19	
					15	Low	21.26	28.20



OUTPUT POWER FOR LTE BAND 5 (5.0MHZ)

	Band		Frequency		RB Config	avention.	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	23.41	28.02
					1	Mid	23.14	27.97
				ODGIV	1	High	23.33	28.13
				QPSK	12	Low	22.46	28.77
					12	High	22.32	28.78
	5 O MII	20425	926.5		25	Low	22.38	29.29
	5.0 MHz	20425	826.5		1	Low	22.42	27.52
					1	Mid	22.22	27.51
				16QAM	1	High	22.36	27.60
					12	Low	22.36	28.68
					12	High	22.35	28.72
					25	Low	21.47	28.56
					1	Low	23.38	28.14
					1	Mid	23.27	28.06
				ODGIZ	1	High	23.28	27.96
				QPSK	12	Low	22.35	28.87
					12	High	22.14	28.57
Band	5 O MII	20525	926.5		25	Low	22.28	28.92
5	5.0 MHz	20525	836.5		1	Low	22.74	28.69
					1	Mid	22.63	28.65
				16QAM	1	High	22.62	28.47
					12	Low	22.17	28.67
					12	High	22.16	28.63
					25	Low	21.26	28.75
					1	Low	23.27	27.97
					1	Mid	23.27	27.96
				ODCIZ	1	High	23.24	27.84
				QPSK	12	Low	22.26	28.11
					12	High	22.27	28.16
	5 O MII-	20/25	946.5		25	Low	22.19	28.89
	5.0 MHz	20625	846.5		1	Low	22.42	27.95
					1	Mid	22.41	28.13 28.77 28.78 29.29 27.52 27.51 27.60 28.68 28.72 28.56 28.14 28.06 27.96 28.87 28.57 28.92 28.69 28.65 28.47 28.67 28.63 28.75 27.97 27.96 27.84 28.11 28.16 28.89
				16QAM	1	High	22.38	
					12	Low	22.25	28.07
					12	High	22.24	28.11
					25	Low	21.17	28.26



OUTPUT POWER FOR LTE BAND 5 (10.0MHZ)

	Band		Frequency		RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	23.36	27.86
					1	Mid	23.32	27.99
				QPSK	1	High	23.32	28.23
				QPSK	25	Low	22.38	28.45
					25	High	22.37	28.63
	10.0	20450	920.0		50	Low	22.39	28.63
	MHz	20450	829.0		1	Low	22.95	28.43
					1	Mid	22.94	28.61
				16QAM	1	High	22.92	28.95
					25	Low	22.36	28.68
					25	High	22.36	28.66
					50	Low	21.40	28.67
	10.0 MHz	20525	836.5	QPSK	1	Low	23.35	28.41
					1	Mid	23.28	28.50
					1	High	22.98	28.03
					25	Low	22.34	28.55
					25	High	22.10	28.43
Band					50	Low	22.29	28.86
5				16QAM	1	Low	22.51	27.49
					1	Mid	22.48	27.61
					1	High	22.18	27.19
					25	Low	22.10	28.57
					25	High	22.09	28.53
					50	Low	21.31	28.66
					1	Low	23.20	28.09
					1	Mid	23.16	27.71
				ODGIZ	1	High	23.23	27.70
				QPSK	25	Low	22.23	28.55
					25	High	22.22	28.28
	10.0	20600	0440		50	Low	22.20	28.37
	MHz	20600	844.0		1	Low	22.24	27.60
					1	Mid	22.22	27.34
				16QAM	1	High	22.24	27.30
					25	Low	22.21	28.38
					25	High	22.20	28.29
					50	Low	21.23	28.52



4.1.5 LTE BAND 7

OUTPUT POWER FOR LTE BAND 7 (5.0MHZ)

OUTPUT	POWERF	OR LIE BA	<u> </u>	<u>1Z)</u>				I
	Band		Frequency		RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.57	25.56
					1	Mid	22.60	25.68
				ODCK	1	High	22.57	25.87
				QPSK	12	Low	21.55	26.35
					12	High	21.54	26.60
	5 OMII-	20775	2502.5		25	Low	21.50	27.25
	5.0MHz	20775	2502.5		1	Low	22.63	25.49
					1	Mid	22.53	25.64
				16QAM	1	High	22.59	25.85
					12	Low	21.56	26.34
					12	High	21.59	26.58
					25	Low	21.55	27.13
	5.0MHz			QPSK	1	Low	22.74	25.66
			2535.0		1	Mid	22.50	25.53
					1	High	22.67	25.58
					12	Low	21.62	26.48
		21100			12	High	21.57	26.33
Band					25	Low	21.54	26.97
7				16QAM	1	Low	22.74	25.63
					1	Mid	22.42	25.48
					1	High	22.68	25.56
					12	Low	21.63	26.42
					12	High	21.60	26.41
					25	Low	21.57	27.03
					1	Low	21.80	25.24
					1	Mid	21.29	24.77
				ODGIZ	1	High	21.65	24.71
				QPSK	12	Low	20.58	25.81
					12	High	20.70	25.55
	5 OM 111	21.425	25.67.5		25	Low	20.62	26.37
	5.0MHz	21425	2567.5		1	Low	21.67	25.14
					1	Mid	21.19	24.71
				16QAM	1	High	21.61	24.69
					12	Low	20.55	25.84
					12	High	20.65	25.58
					25	Low	20.60	26.29



OUTPUT POWER FOR LTE BAND 7 (10.0MHZ)

Dand	Band	Chamal	Frequency	Modulation	RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.21	25.38
					1	Mid	22.46	25.80
				ODGIZ	1	High	22.40	26.21
				QPSK	25	Low	21.55	26.34
					25	High	21.63	26.81
	10.0	20000	2505.0		50	Low	21.60	27.09
	MHz	20800	2505.0		1	Low	22.19	25.38
					1	Mid	22.50	25.81
				16QAM	1	High	22.43	26.20
					25	Low	21.54	26.36
					25	High	21.63	26.83
					50	Low	21.60	27.12
			2535.0	QPSK	1	Low	22.01	25.66
		1 21100			1	Mid	22.30	25.54
					1	High	22.48	25.60
					25	Low	21.45	26.40
					25	High	21.58	26.38
Band	10.0				50	Low	21.59	27.01
7	MHz			16QAM	1	Low	21.92	25.62
					1	Mid	22.25	25.49
					1	High	22.42	25.57
					25	Low	21.41	26.26
					25	High	21.58	26.40
					50	Low	21.62	26.96
					1	Low	21.50	25.50
					1	Mid	21.24	25.01
				OBGIA	1	High	21.26	24.53
				QPSK	25	Low	20.52	26.20
					25	High	20.54	25.74
	10.0	21.100	27.70		50	Low	20.56	26.29
	MHz	21400	2565.0		1	Low	21.44	25.44
	1.111				1	Mid	21.20	25.00
				16QAM	1	High	21.24	24.50
					25	Low	20.51	26.20
					25	High	20.55	25.86
					50	Low	20.56	26.09



OUTPUT POWER FOR LTE BAND 7 (15.0MHZ)

	Band	Channel	Frequency	Modulation	RB Config	guration	Average	Peak
Band	Width	Chamer	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.35	25.46
					1	Mid	22.46	26.06
				ODCV	1	High	22.34	26.37
				QPSK	36	Low	21.65	26.48
					36	High	21.69	27.06
	15.0	20025	2507.5		75	Low	21.69	27.75
	MHz	20825	2507.5		1	Low	22.29	25.43
					1	Mid	22.45	26.05
				16QAM	1	High	22.32	26.35
					36	Low	21.63	26.48
					36	High	21.68	27.05
					75	Low	21.68	27.72
		21100	2535.0	QPSK	1	Low	22.00	25.75
					1	Mid	22.23	25.53
					1	High	22.66	25.64
					36	Low	21.31	26.38
					36	High	21.77	26.44
Band	15.0				75	Low	21.57	27.34
7	MHz			16QAM	1	Low	21.95	25.74
					1	Mid	22.21	25.51
					1	High	22.66	25.61
					36	Low	21.27	26.40
					36	High	21.78	26.42
					75	Low	21.55	27.39
					1	Low	22.12	25.69
					1	Mid	21.18	25.22
				ODGIZ	1	High	21.39	24.56
				QPSK	36	Low	20.86	26.45
					36	High	20.50	25.90
	15.0	21275	25.62.5		75	Low	20.68	26.89
	MHz	21375	2562.5		1	Low	22.07	25.68
					1	Mid	21.17	25.21
				16QAM	1	High	21.39	24.60
					36	Low	20.85	26.41
					36	High	20.51	25.86
					75	Low	20.69	26.89



OUTPUT POWER FOR LTE BAND 7 (20.0MHZ)

	Band	Channel	Frequency	Modulation	RB Config	guration	Average	Peak
Band	Width	Chamer	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	22.37	25.46
					1	Mid	22.39	26.28
				ODCK	1	High	22.17	26.30
				QPSK	50	Low	21.63	26.67
					50	High	21.46	27.11
	20.0	20050	2510.0		100	Low	21.58	27.36
	MHz	20850	2510.0		1	Low	22.32	25.45
					1	Mid	22.41	26.26
				16QAM	1	High	22.22	26.35
					50	Low	21.65	26.67
					50	High	21.50	27.14
					100	Low	21.60	27.36
		21100	2535.0	QPSK	1	Low	22.01	25.78
					1	Mid	22.24	25.52
					1	High	22.67	25.68
					50	Low	21.26	26.45
	20.0				50	High	21.63	26.45
Band					100	Low	21.61	27.22
7	MHz			16QAM	1	Low	21.96	25.75
					1	Mid	22.21	25.51
					1	High	22.68	25.67
					50	Low	21.23	26.47
					50	High	21.61	26.38
					100	Low	21.60	27.20
					1	Low	22.46	25.61
					1	Mid	21.45	25.50
				ODCK	1	High	21.42	24.58
				QPSK	50	Low	21.25	26.49
					50	High	20.57	26.00
	20.0	21250	2560.0		100	Low	20.94	26.84
	MHz	21350	2560.0		1	Low	22.46	25.64
					1	Mid	21.45	25.49
				16QAM	1	High	21.43	24.59
					50	Low	21.27	26.51
					50	High	20.57	25.98
					100	Low	20.95	26.78



4.1.6 LTE BAND 17

OUTPUT POWER FOR LTE BAND 17 (5.0MHZ)

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	Band		Frequency		RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	23.30	29.05
					1	Mid	23.35	29.04
				QPSK	1	High	23.28	29.05
				QPSK	12	Low	22.40	29.79
					12	High	22.42	29.84
	5 OMIT	22755	706.5		25	Low	22.36	29.95
	5.0MHz	23755	706.5		1	Low	23.32	29.04
					1	Mid	23.34	29.04
				16QAM	1	High	23.29	29.06
					12	Low	22.40	29.79
					12	High	22.43	29.83
					25	Low	22.35	30.04
		23790		QPSK	1	Low	23.33	29.07
			710.0		1	Mid	23.24	28.84
					1	High	23.20	28.67
					12	Low	22.37	29.69
					12	High	22.31	29.37
Band	5.0MHz				25	Low	22.29	29.29
17				16QAM	1	Low	23.31	29.04
					1	Mid	23.24	28.86
					1	High	23.20	28.67
					12	Low	22.37	29.52
					12	High	22.32	29.44
					25	Low	22.29	29.76
					1	Low	23.31	29.05
					1	Mid	23.31	28.81
				o Davr	1	High	23.28	28.76
				QPSK	12	Low	22.30	29.12
					12	High	22.28	28.82
	5 03 577	22627	710 7		25	Low	22.25	29.54
	5.0MHz	23825	713.5		1	Low	23.32	29.05
					1	Mid	23.33	28.84
				16QAM	1	High	23.27	28.77
					12	Low	22.31	29.14
					12	High	22.28	28.81
					25	Low	22.24	29.52



OUTPUT POWER FOR LTE BAND 17 (10.0MHZ)

	Band		Frequency	Modulation	RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	23.29	28.88
					1	Mid	23.29	28.90
				QPSK	1	High	23.20	28.49
				QPSK	25	Low	22.35	29.44
					25	High	22.32	29.23
	10.0	22700	700.0		50	Low	22.33	29.11
	MHz	23780	709.0		1	Low	23.32	28.89
					1	Mid	23.29	28.87
				16QAM	1	High	23.19	28.51
					25	Low	22.34	29.40
					25	High	22.31	29.29
					50	Low	22.33	29.33
		23790	710.0	QPSK	1	Low	23.28	28.83
					1	Mid	23.26	28.78
					1	High	23.16	28.36
					25	Low	22.32	29.38
					25	High	22.27	29.11
Band	10.0				50	Low	22.29	29.17
17	MHz			16QAM	1	Low	23.28	28.82
					1	Mid	23.27	28.75
					1	High	23.19	28.40
					25	Low	22.32	29.36
					25	High	22.27	29.07
					50	Low	22.30	29.20
					1	Low	23.34	29.06
					1	Mid	23.30	28.79
				ODGIZ	1	High	23.25	28.55
				QPSK	25	Low	22.34	29.61
					25	High	22.25	29.28
	10.0	22000	711.0		50	Low	22.31	28.96
	MHz	23800	711.0		1	Low	23.35	29.05
					1	Mid	23.30	28.83
				16QAM	1	High	23.25	28.53
					25	Low	22.33	29.73
					25	High	22.26	29.32
				1	50	Low	22.31	29.07



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.

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The test setup please refer to Section 2.4 CONDUCTED SETUP DIAGRAM FOR TESTS of this report.

MODES TESTED

LTE Band 2

LTE Band 4

LTE Band 5

LTE Band 7

LTE Band 17

RESULTS



Test results:

Dand	Mode	RB Size/RB	Frequency	99% Occupied	-26dBc Occupied
Band	Mode	Offset	(MHz)	Bandwidth (MHz)	Bandwidth (MHz)
	1.4MHz BAND QPSK	6/0	1880.0	1.09	1.25
	1.4MHz BAND 16QAM	6/0	1880.0	1.09	1.27
	3.0MHz BAND QPSK	15/0	1880.0	2.75	3.03
	3.0MHz BAND 16QAM	15/0	1880.0	2.74	3.03
	5.0MHz BAND QPSK	25/0	1880.0	4.54	4.98
LTE Band	5.0MHz BAND 16QAM	25/0	1880.0	4.51	5.03
2	10.0MHz BAND QPSK	50/0	1880.0	8.99	10.05
	10.0MHz BAND 16QAM	50/0	1880.0	9.03	10.00
	15.0MHz BAND QPSK	75/0	1880.0	13.45	14.61
	15.0MHz BAND 16QAM	75/0	1880.0	13.44	14.67
	20.0MHz BAND QPSK	100/0	1880.0	18.34	20.34
	20.0MHz BAND 16QAM	100/0	1880.0	18.27	20.28

Dand	Mode	RB Size/RB	Frequency	99% Occupied	-26dBc Occupied
Band	Mode	Offset	(MHz)	Bandwidth (MHz)	Bandwidth (MHz)
	1.4MHz BAND QPSK	6/0	1732.5	1.09	1.26
	1.4MHz BAND 16QAM	6/0	1732.5	1.10	1.26
	3.0MHz BAND QPSK	15/0	1732.5	2.73	3.02
	3.0MHz BAND 16QAM	15/0	1732.5	2.74	3.02
	5.0MHz BAND QPSK	25/0	1732.5	4.53	5.01
LTE Band	5.0MHz BAND 16QAM	25/0	1732.5	4.52	5.08
4	10.0MHz BAND QPSK	50/0	1732.5	9.03	10.00
	10.0MHz BAND 16QAM	50/0	1732.5	9.00	10.00
	15.0MHz BAND QPSK	75/0	1732.5	13.51	14.71
	15.0MHz BAND 16QAM	75/0	1732.5	13.43	14.75
	20.0MHz BAND QPSK	100/0	1732.5	18.39	20.28
	20.0MHz BAND 16QAM	100/0	1732.5	18.36	20.36



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Band	Mode	RB Size/RB	Frequency	99% Occupied	-26dBc Occupied
		Offset	(MHz)	Bandwidth (MHz)	Bandwidth (MHz)
LTE Band 5	1.4MHz BAND QPSK	6/0	20525	1.09	1.25
	1.4MHz BAND 16QAM	6/0	20525	1.10	1.25
	3.0MHz BAND QPSK	15/0	20525	2.74	3.04
	3.0MHz BAND 16QAM	15/0	20525	2.74	3.03
	5.0MHz BAND QPSK	25/0	20525	4.52	4.98
	5.0MHz BAND 16QAM	25/0	20525	4.52	5.07
	10.0MHz BAND QPSK	50/0	20525	9.06	10.08
	10.0MHz BAND 16QAM	50/0	20525	9.03	9.89

Band	Mode	RB Size/RB	Frequency	99% Occupied	-26dBc Occupied
		Offset	(MHz)	Bandwidth (MHz)	Bandwidth (MHz)
LTE Band 7	5.0MHz BAND QPSK	25/0	21100	4.52	5.00
	5.0MHz BAND 16QAM	25/0	21100	4.53	5.04
	10.0MHz BAND QPSK	50/0	21100	9.00	10.02
	10.0MHz BAND 16QAM	50/0	21100	9.04	9.84
	15.0MHz BAND QPSK	75/0	21100	13.46	14.79
	15.0MHz BAND 16QAM	75/0	21100	13.48	14.75
	20.0MHz BAND QPSK	100/0	21100	18.38	20.41
	20.0MHz BAND 16QAM	100/0	21100	18.38	20.43

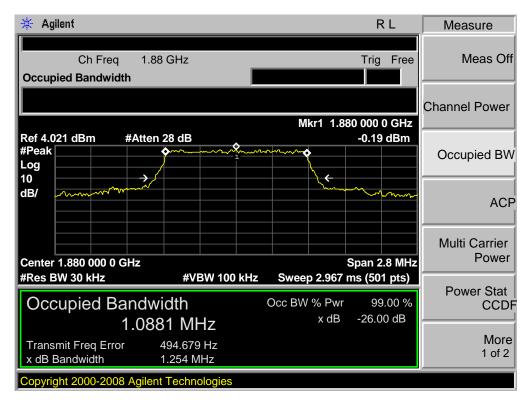
Band	Mode	RB Size/RB	Frequency	99% Occupied	-26dBc Occupied
		Offset	(MHz)	Bandwidth (MHz)	Bandwidth (MHz)
LTE Band	5.0MHz BAND QPSK	25/0	23790	4.52	5.01
	5.0MHz BAND 16QAM	25/0	23790	4.52	5.04
	10.0MHz BAND QPSK	50/0	23790	9.02	10.09
	10.0MHz BAND 16QAM	50/0	23790	9.03	10.01

Note: This test was only measured at maximum RB allocation and at CENTER of band for each LTE BW

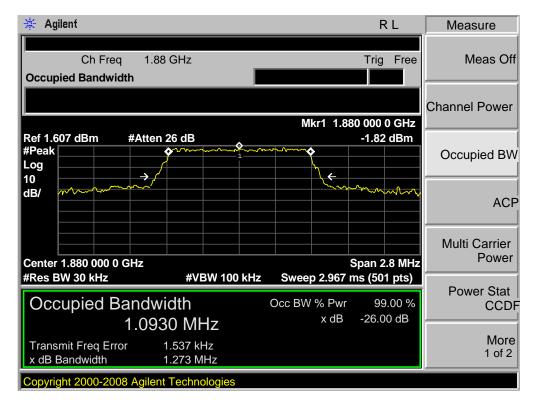


5.1.1. LTE BAND 2

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



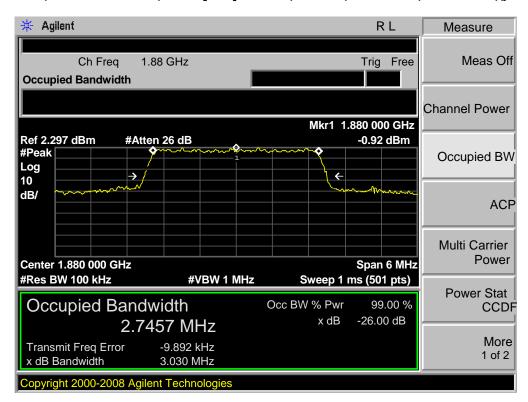
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 1.4,NO. RB 6,RB POS. Low,16QAM



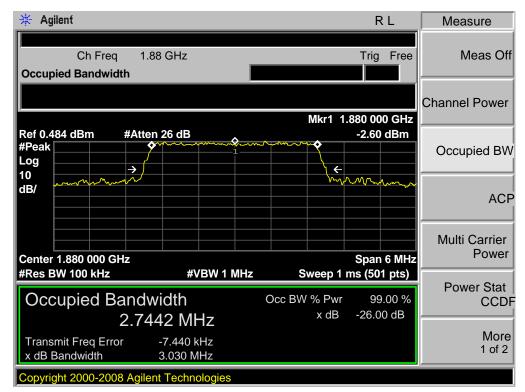


Band 2,UL Channel 18900,UL Frequency 1880.0,BW 3.0,NO. RB 15,RB POS. Low,QPSK

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

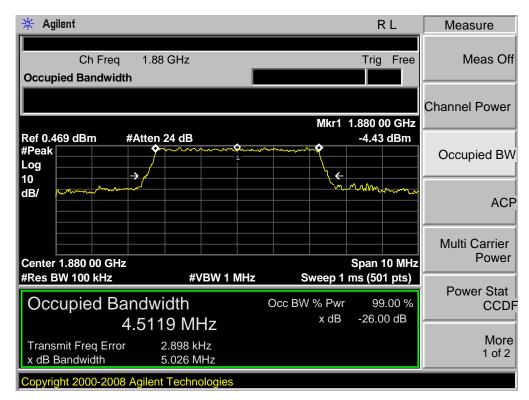


Band 2,UL Channel 18900,UL Frequency 1880.0,BW 5.0,NO. RB 25,RB POS. Low,QPSK

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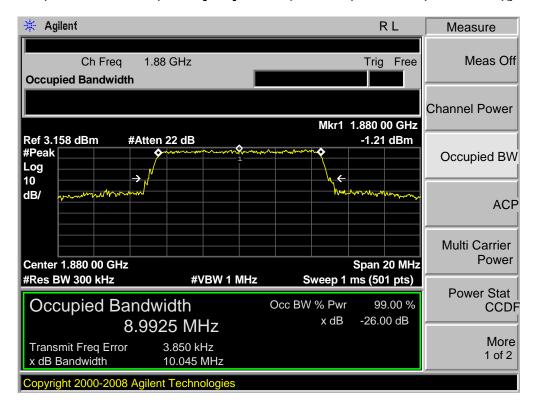
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 5.0,NO. RB 25,RB POS. Low,16QAM



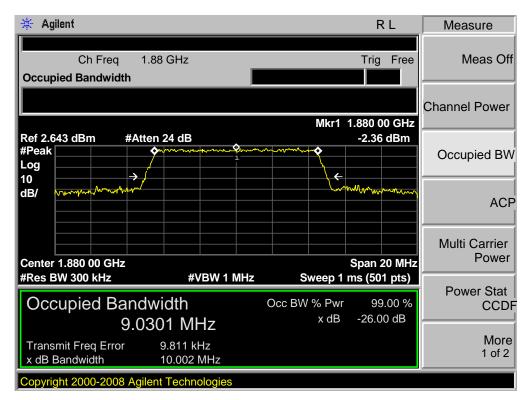


Band 2,UL Channel 18900,UL Frequency 1880.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

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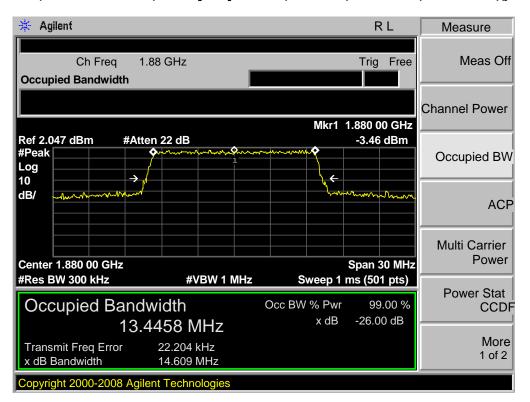
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



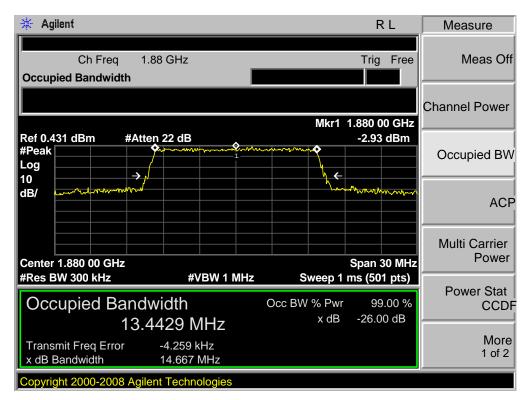


Band 2,UL Channel 18900,UL Frequency 1880.0,BW 15.0,NO. RB 75,RB POS. Low,QPSK

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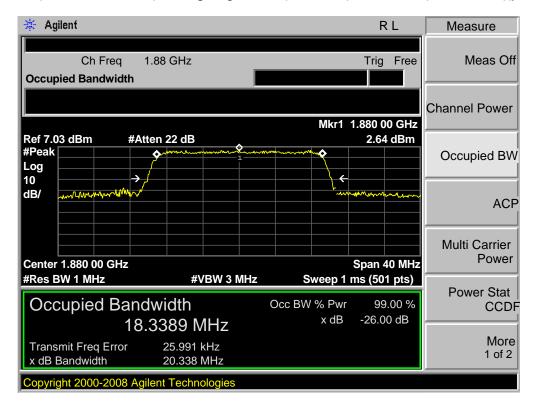
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 15.0,NO. RB 75,RB POS. Low,16QAM



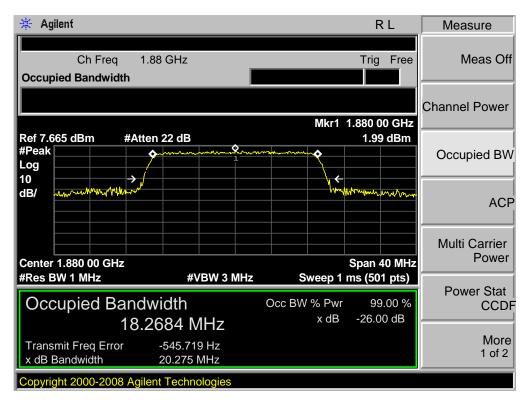


Band 2,UL Channel 18900,UL Frequency 1880.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK

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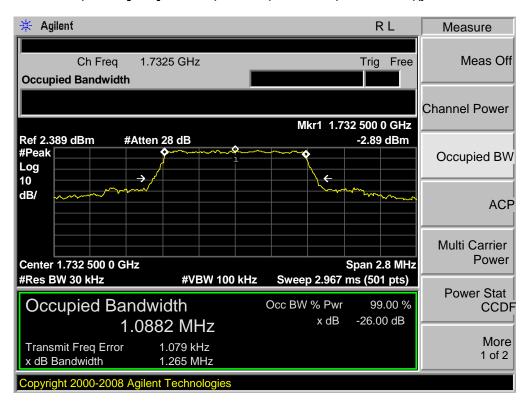
Band 2,UL Channel 18900,UL Frequency 1880.0,EW 20.0,NO. RB 100,RB POS. Low,16QAM



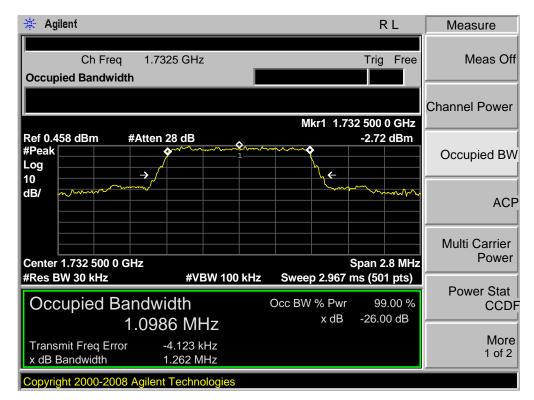


5.1.2. LTE BAND 4

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



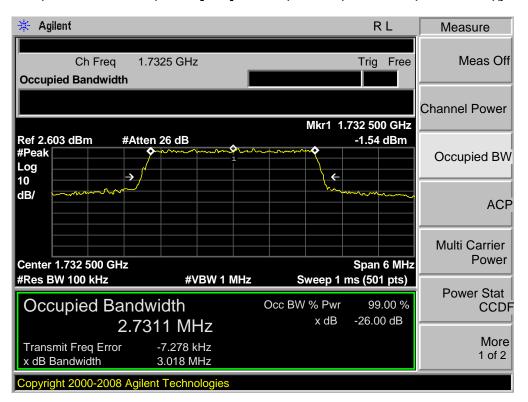
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 1.4,NO. RB 6,RB POS. Low,16QAM



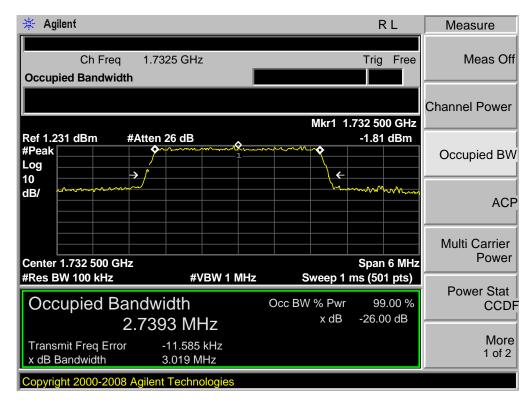


Band 4,UL Channel 20175,UL Frequency 1732.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK

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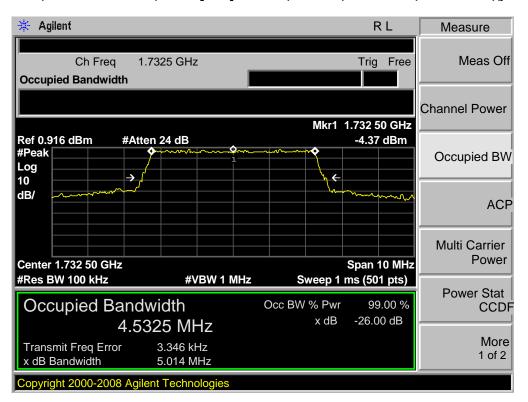


Band 4,UL Channel 20175,UL Frequency 1732.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM

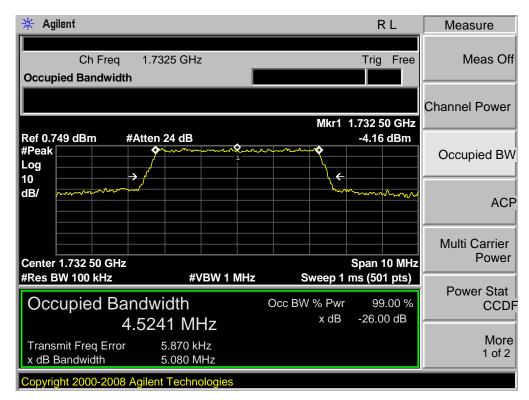




Band 4,UL Channel 20175,UL Frequency 1732.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



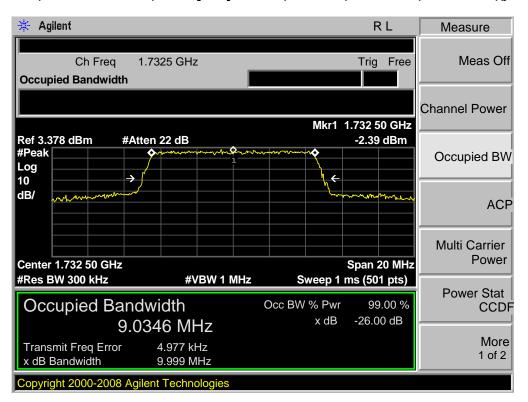
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM



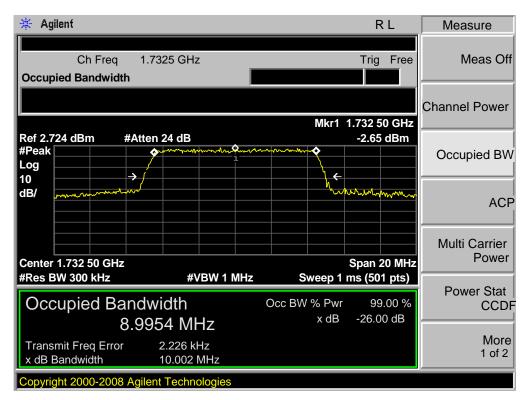


Band 4,UL Channel 20175,UL Frequency 1732.5,BW 10.0,NO. RB 50,RB POS. Low,QPSK

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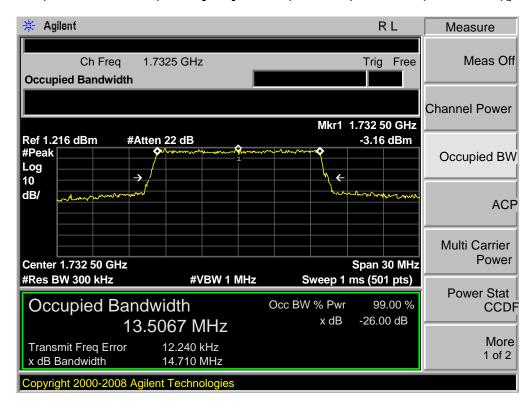


Band 4,UL Channel 20175,UL Frequency 1732.5,BW 10.0,NO. RB 50,RB POS. Low,16QAM

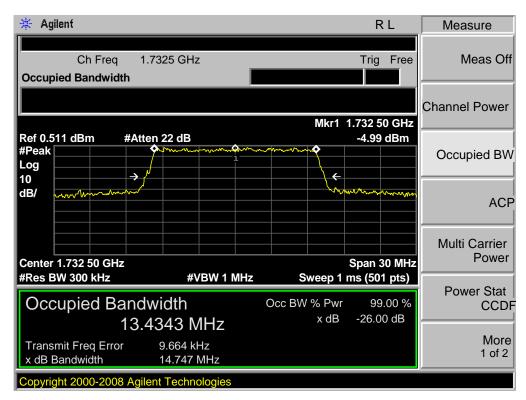




Band 4,UL Channel 20175,UL Frequency 1732.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



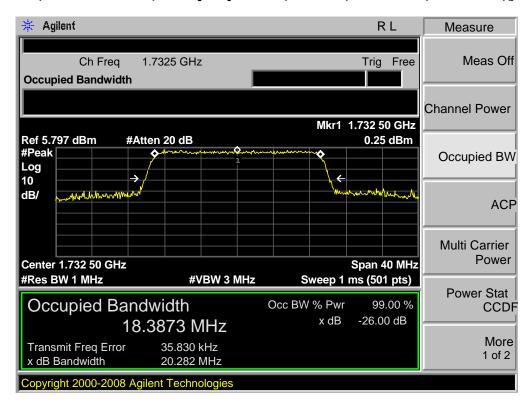
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM



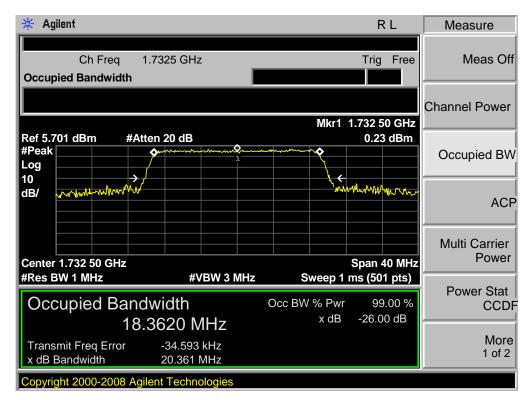


Band 4,UL Channel 20175,UL Frequency 1732.5,BW 20.0,NO. RB 100,RB POS. Low,QPSK

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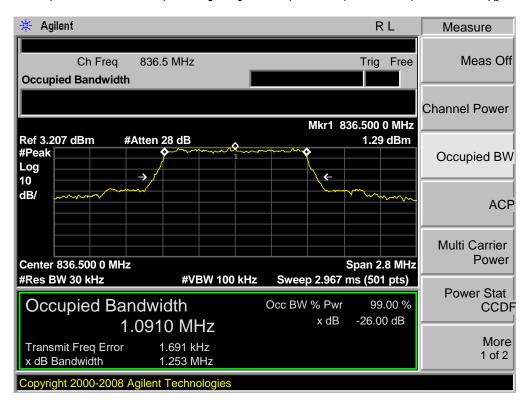
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 20.0,NO. RB 100,RB POS. Low,16QAM



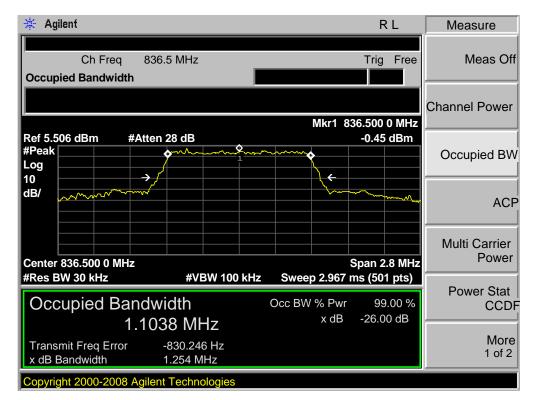


5.1.3. LTE BAND 5

Band 5,UL Channel 20525,UL Frequency 836.5,BW 1.4,NO. RB 6,RB POS. Low,QPSK



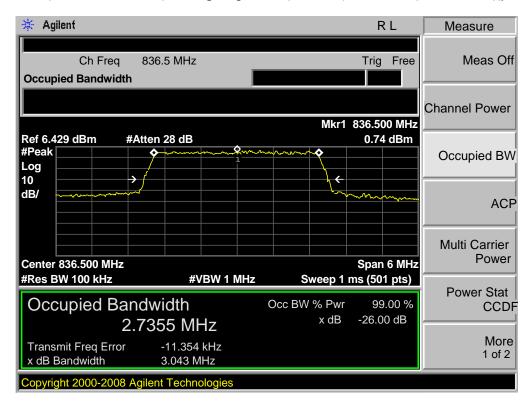
Band 5,UL Channel 20525,UL Frequency 836.5,BW 1.4,NO. RB 6,RB POS. Low,16-QAM



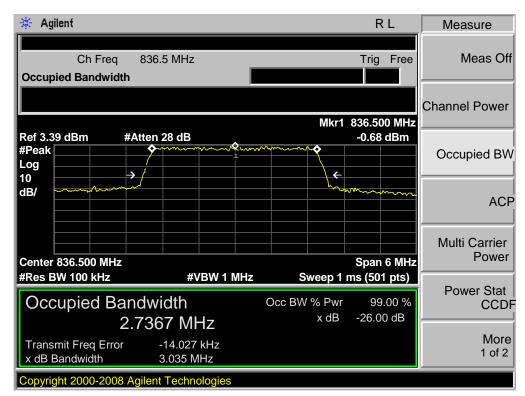


Band 5,UL Channel 20525,UL Frequency 836.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK

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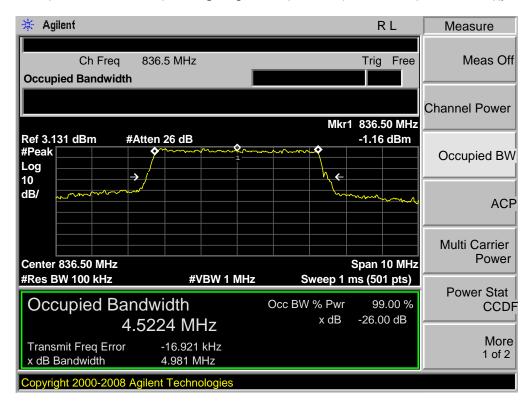
Band 5,UL Channel 20525,UL Frequency 836.5,BW 3.0,NO. RB 15,RB POS. Low,16-QAM



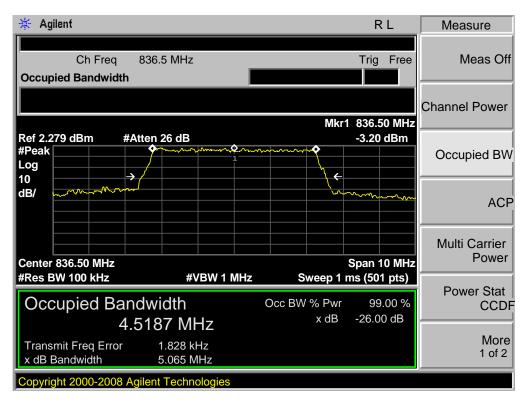


Band 5,UL Channel 20525,UL Frequency 836.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

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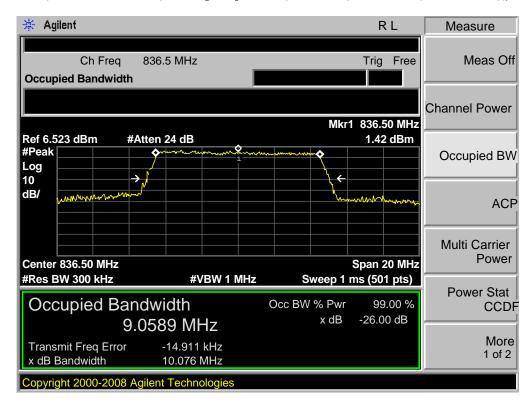
Band 5,UL Channel 20525,UL Frequency 836.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



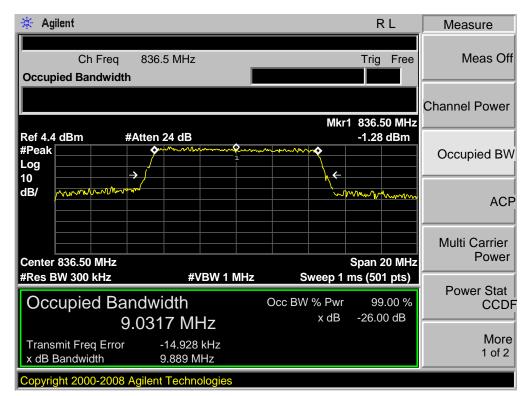


Band 5,UL Channel 20525,UL Frequency 836.5,BW 10.0,NO. RB 50,RB POS. Low,QPSK

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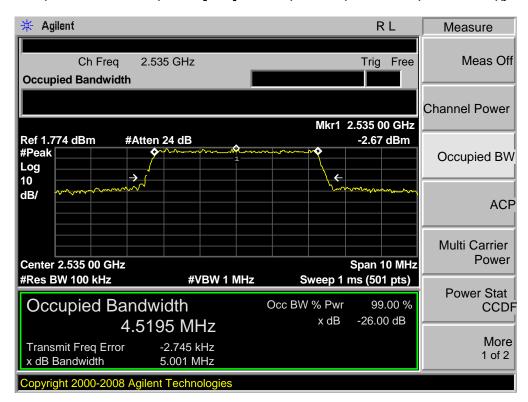
Band 5,UL Channel 20525,UL Frequency 836.5,BW 10.0,NO. RB 50,RB POS. Low,16-QAM



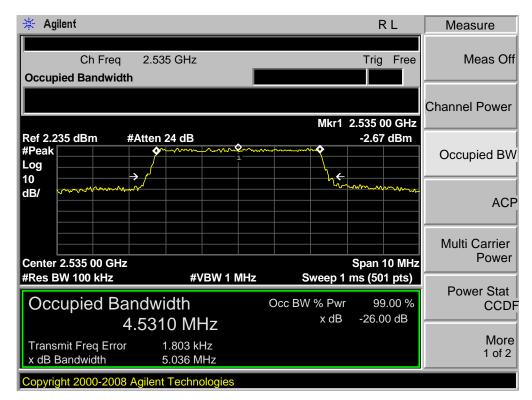


5.1.4. LTE BAND 7

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



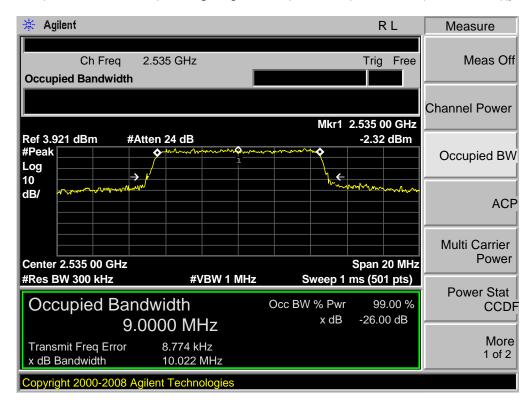
Band 7,UL Channel 21100,UL Frequency 2535.0,BW 5.0,NO. RB 25,RB POS. Low,16QAM



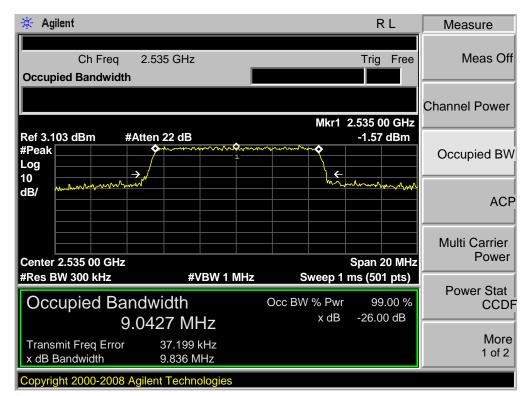


Band 7,UL Channel 21100,UL Frequency 2535.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

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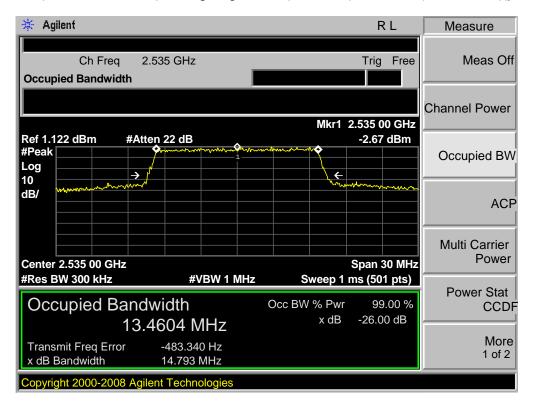
Band 7,UL Channel 21100,UL Frequency 2535.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



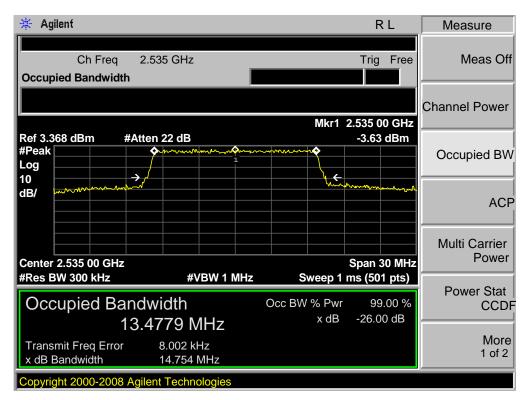


Band 7,UL Channel 21100,UL Frequency 2535.0,BW 15.0,NO. RB 75,RB POS. Low,QPSK

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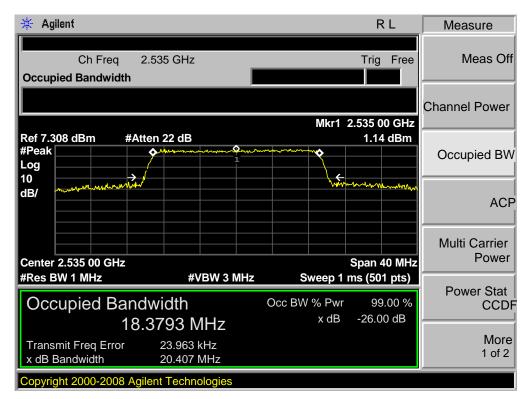
Band 7,UL Channel 21100,UL Frequency 2535.0,BW 15.0,NO. RB 75,RB POS. Low,16QAM



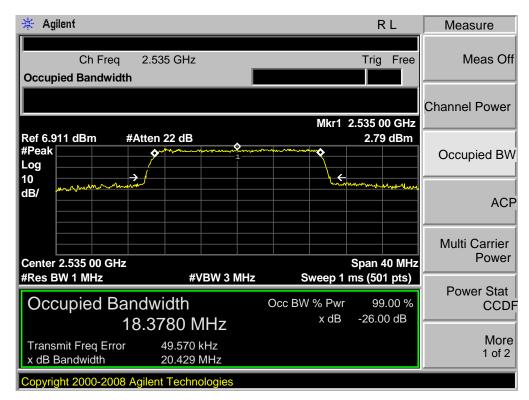


Band 7,UL Channel 21100,UL Frequency 2535.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK

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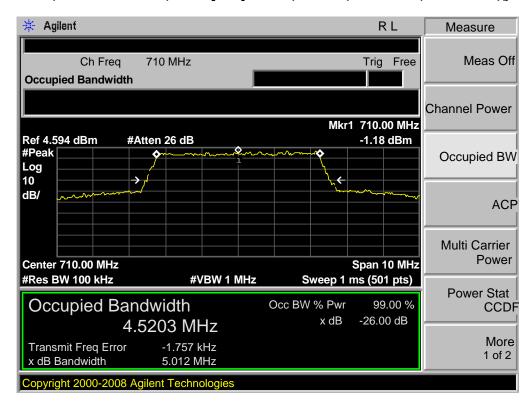
Band 7,UL Channel 21100,UL Frequency 2535.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM



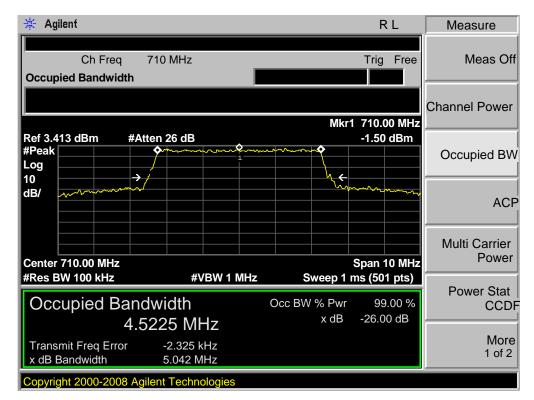


5.1.5. LTE BAND 17

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



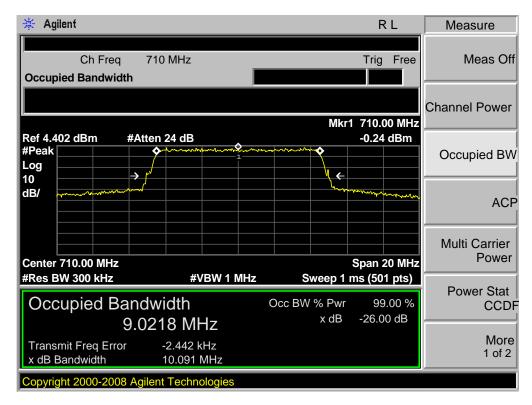
Band 17,UL Channel 23790,UL Frequency 710.0,BW 5.0,NO. RB 25,RB POS. Low,16QAM



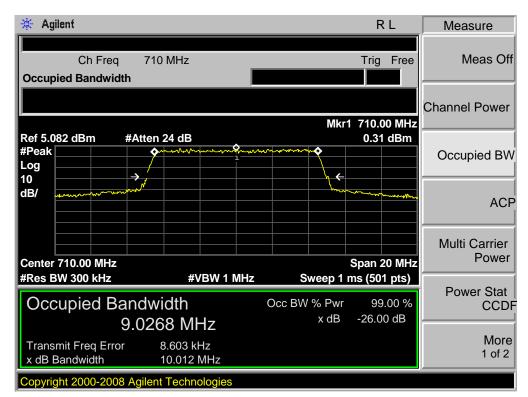


Band 17,UL Channel 23790,UL Frequency 710.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

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





Report No.: NTEK- 2016NT09088824F6

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 CMW500Test 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 5

LTE Band 7

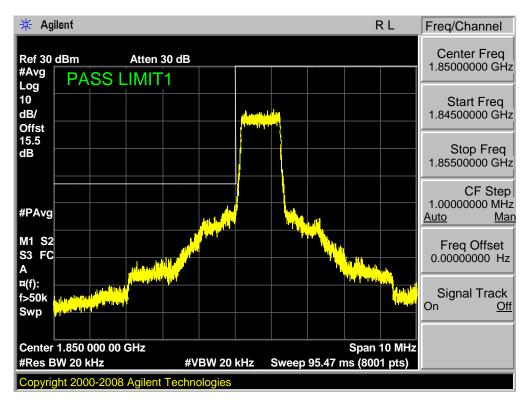
LTE Band 17

RESULTS

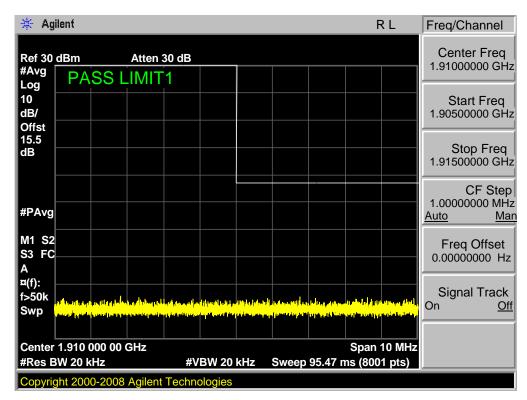


6.1.1. LTE BAND 2

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



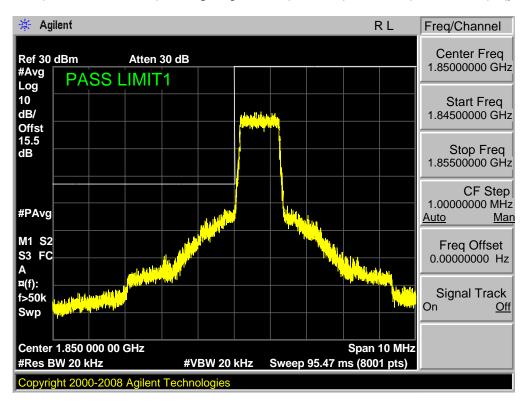
Band 2,UL Channel 18607,UL Frequency 1850.7,BW 1.4,NO. RB 6,RB POS. Low,QPSK



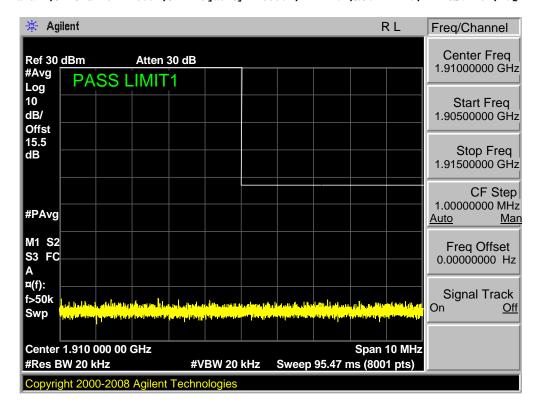


Band 2,UL Channel 18607,UL Frequency 1850.7,BW 1.4,NO. RB 6,RB POS. Low,16QAM

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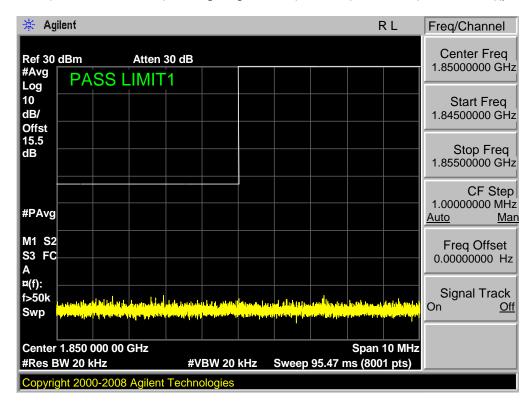
Band 2,UL Channel 18607,UL Frequency 1850.7,BW 1.4,NO. RB 6,RB POS. Low,16QAM



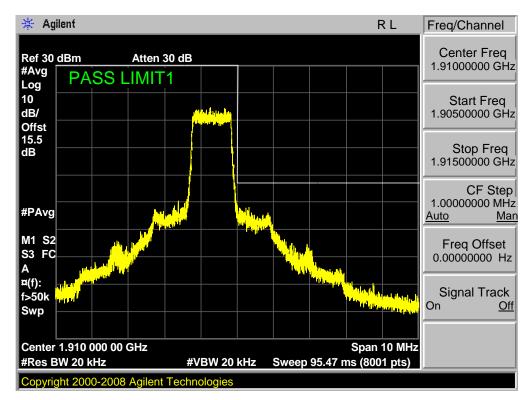


Band 2,UL Channel 19193,UL Frequency 1909.3,BW 1.4,NO. RB 6,RB POS. Low,QPSK

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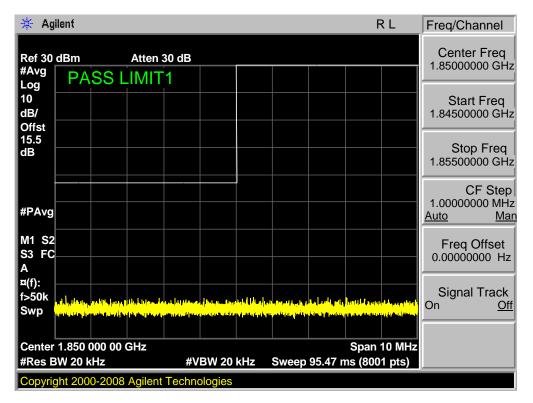


Band 2,UL Channel 19193,UL Frequency 1909.3,BW 1.4,NO. RB 6,RB POS. Low,QPSK

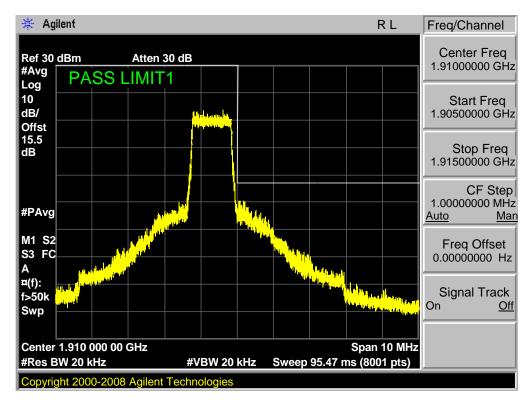


Band 2,UL Channel 19193,UL Frequency 1909.3,BW 1.4,NO. RB 6,RB POS. Low,16QAM

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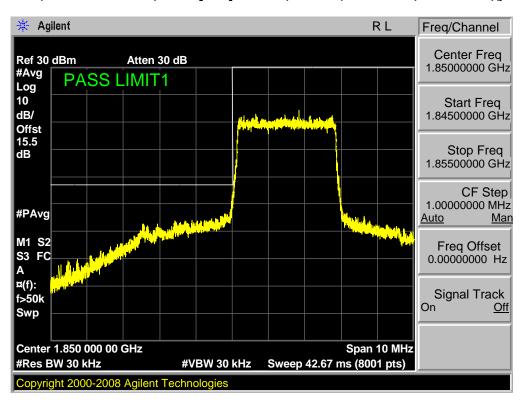


Band 2,UL Channel 19193,UL Frequency 1909.3,BW 1.4,NO. RB 6,RB POS. Low,16QAM

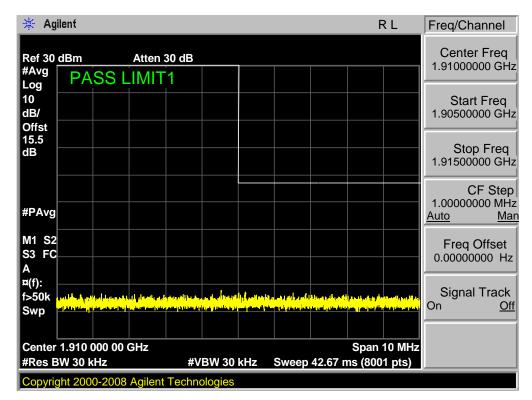


Band 2,UL Channel 18615,UL Frequency 1851.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK

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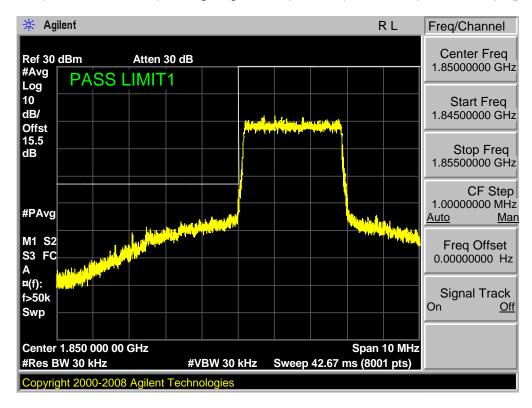
Band 2,UL Channel 18615,UL Frequency 1851.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



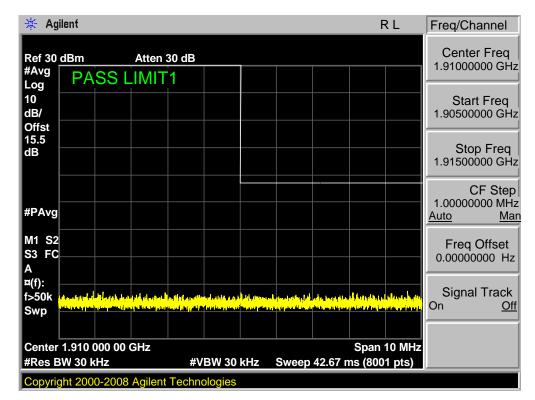


Band 2,UL Channel 18615,UL Frequency 1851.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM

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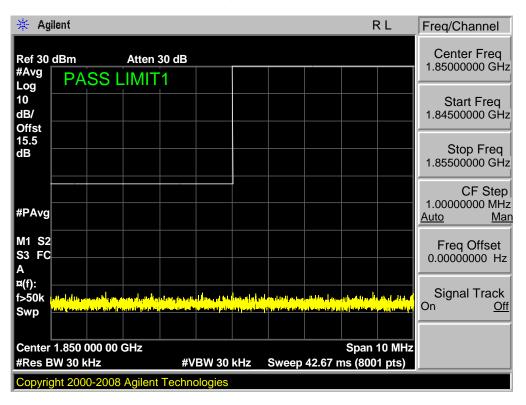
Band 2,UL Channel 18615,UL Frequency 1851.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM



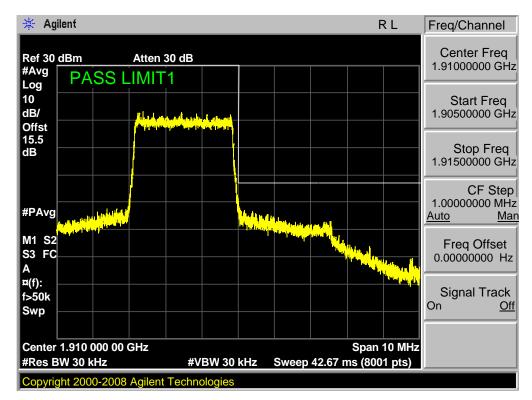


Band 2,UL Channel 19185,UL Frequency 1908.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK

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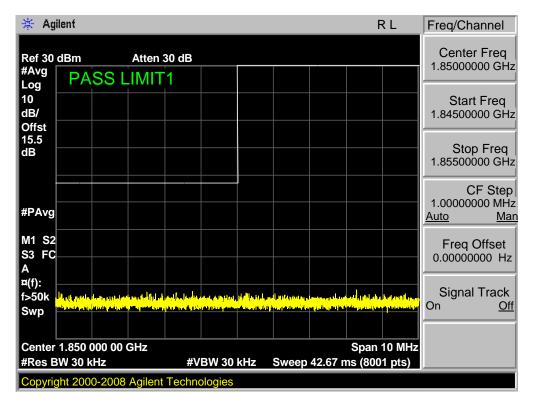
Band 2,UL Channel 19185,UL Frequency 1908.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



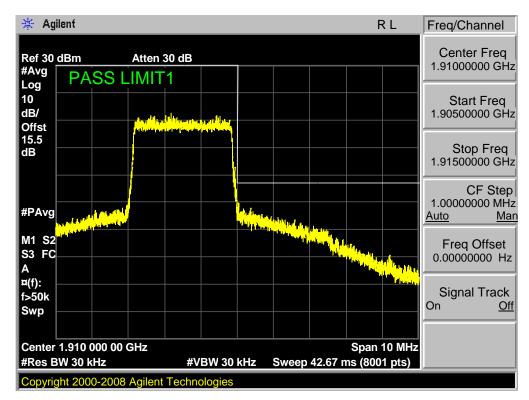


Band 2,UL Channel 19185,UL Frequency 1908.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM

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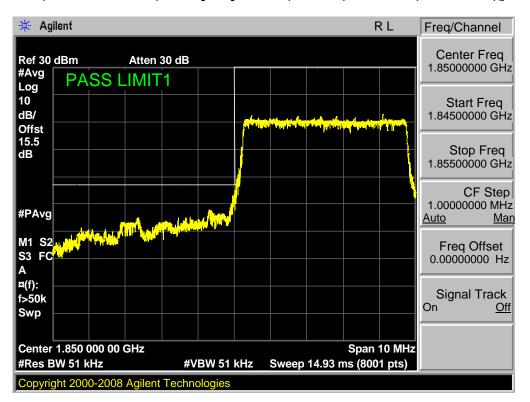
Band 2,UL Channel 19185,UL Frequency 1908.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM



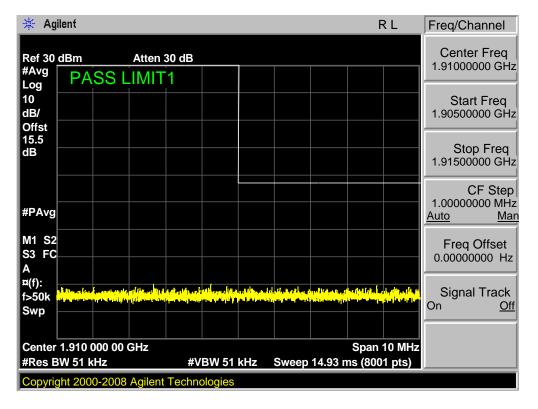


Band 2,UL Channel 18625,UL Frequency 1852.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

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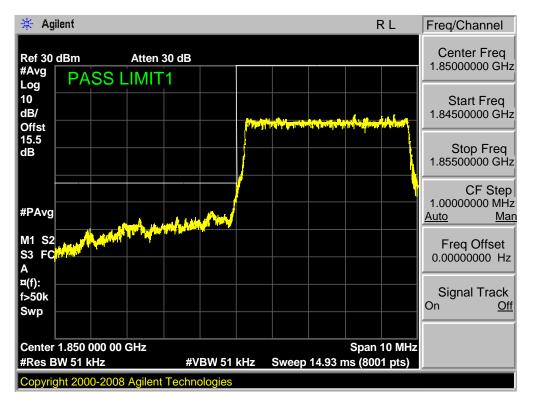
Band 2,UL Channel 18625,UL Frequency 1852.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



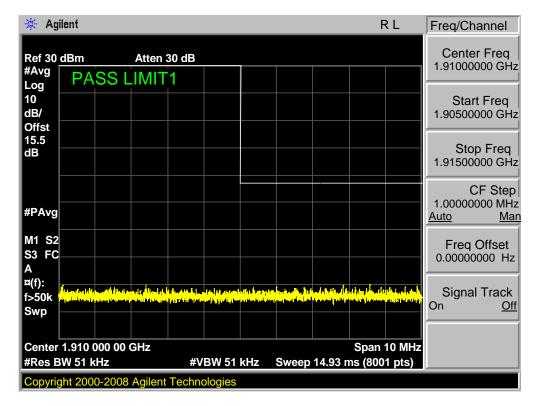


Band 2,UL Channel 18625,UL Frequency 1852.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM

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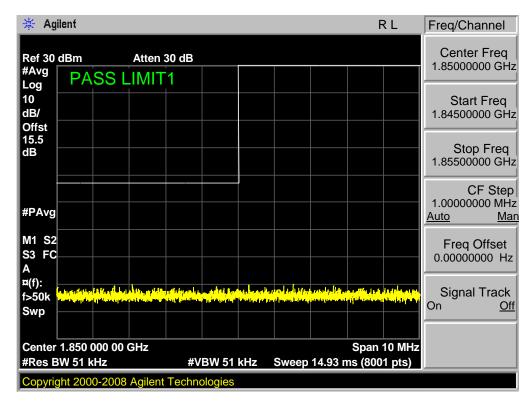
Band 2,UL Channel 18625,UL Frequency 1852.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM



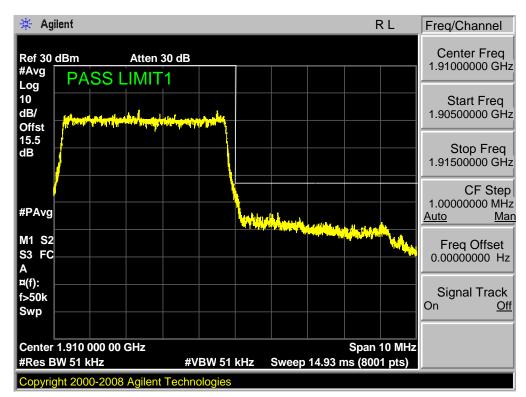


Band 2,UL Channel 19175,UL Frequency 1907.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

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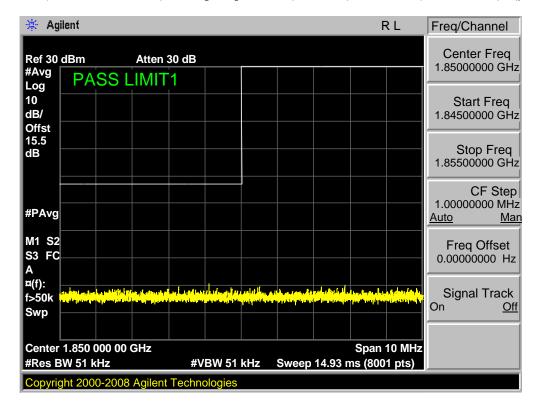
Band 2,UL Channel 19175,UL Frequency 1907.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



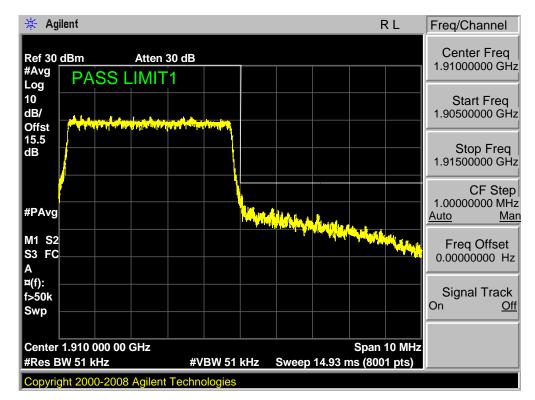


Band 2,UL Channel 19175,UL Frequency 1907.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM

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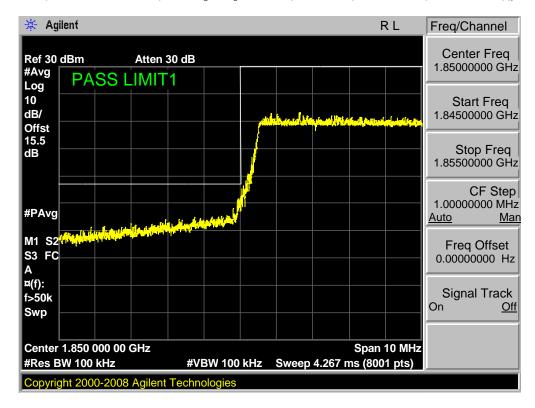
Band 2,UL Channel 19175,UL Frequency 1907.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM



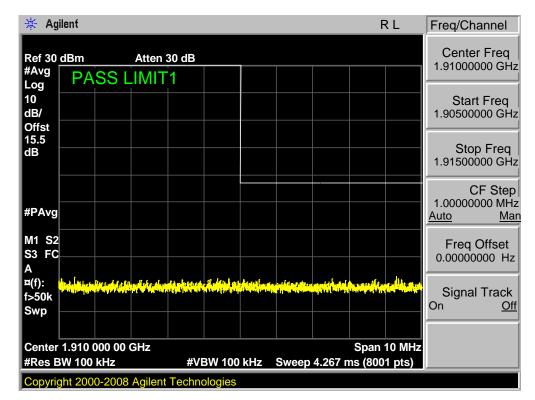


Band 2,UL Channel 18650,UL Frequency 1855.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

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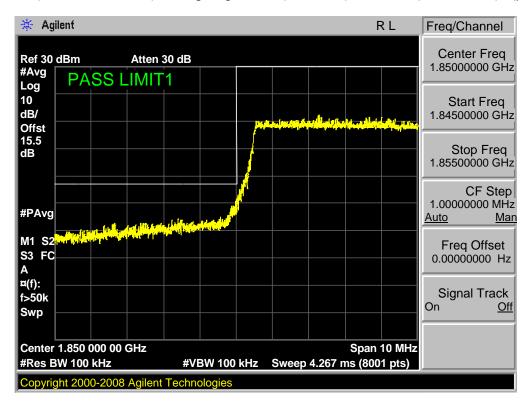
Band 2,UL Channel 18650,UL Frequency 1855.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



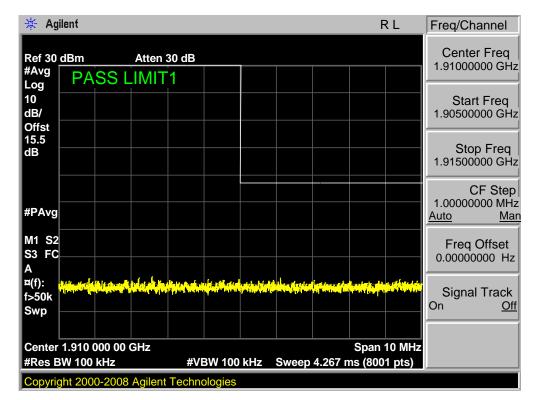


Band 2,UL Channel 18650,UL Frequency 1855.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM

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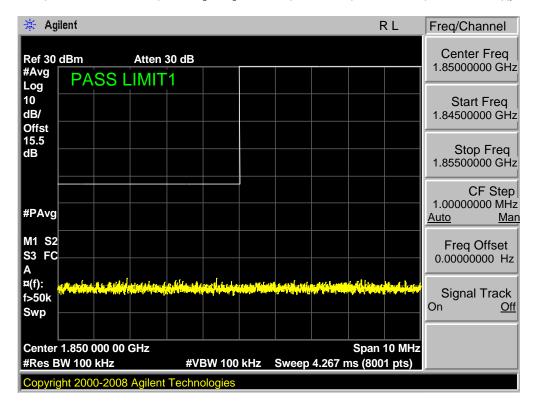
Band 2,UL Channel 18650,UL Frequency 1855.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



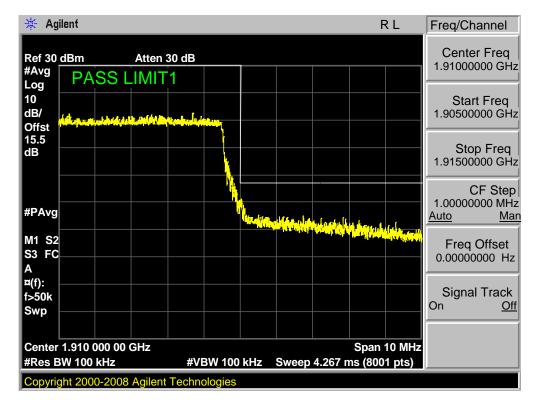


Band 2,UL Channel 19150,UL Frequency 1905.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

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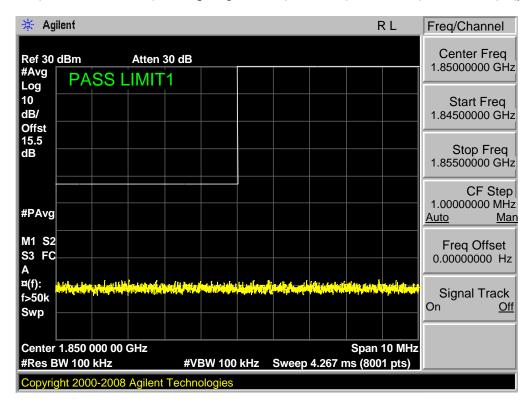
Band 2,UL Channel 19150,UL Frequency 1905.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



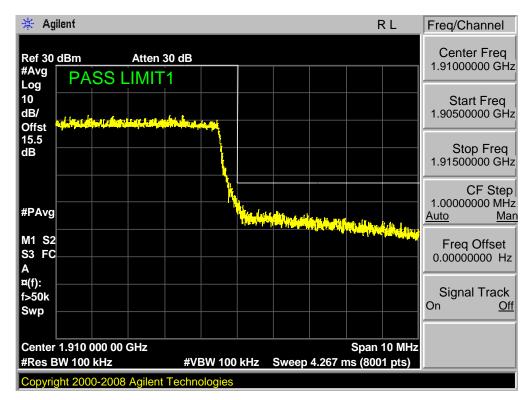


Band 2,UL Channel 19150,UL Frequency 1905.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM

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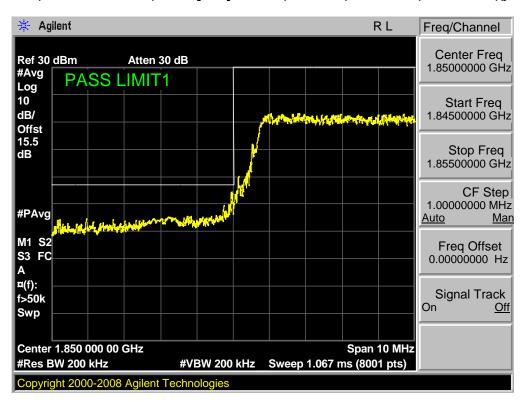
Band 2,UL Channel 19150,UL Frequency 1905.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



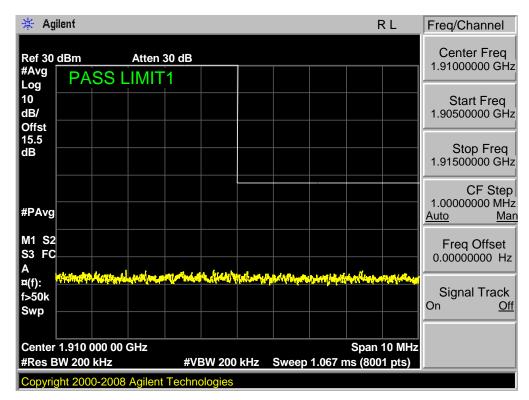


Band 2,UL Channel 18675,UL Frequency 1857.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK

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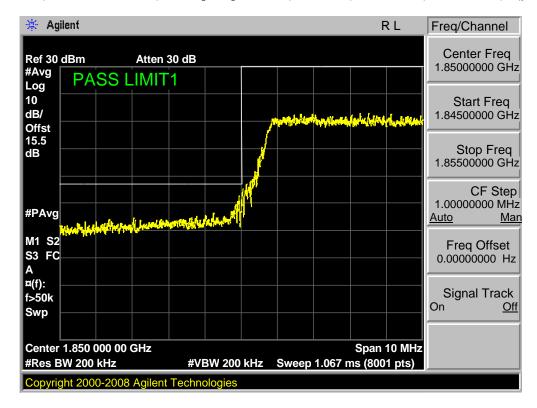
Band 2,UL Channel 18675,UL Frequency 1857.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



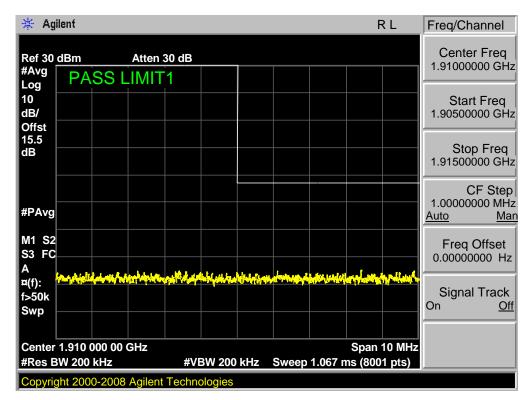


Band 2,UL Channel 18675,UL Frequency 1857.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM

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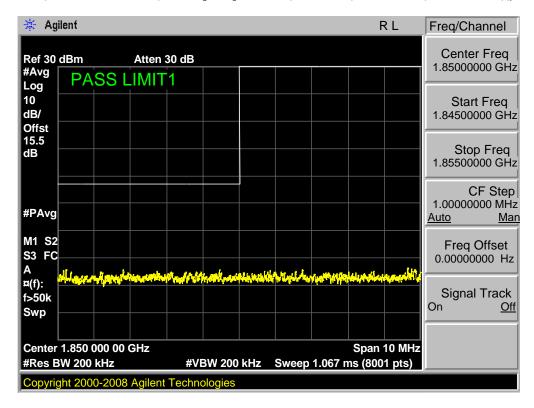
Band 2,UL Channel 18675,UL Frequency 1857.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM



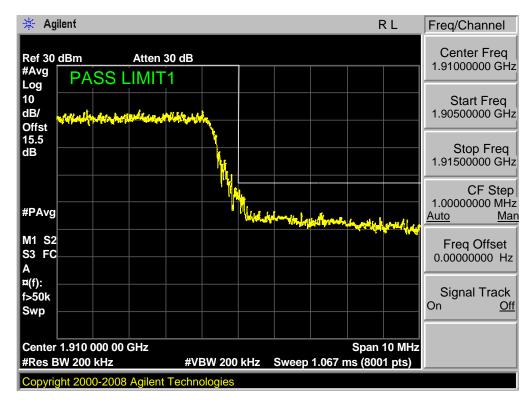


Band 2,UL Channel 19125,UL Frequency 1902.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK

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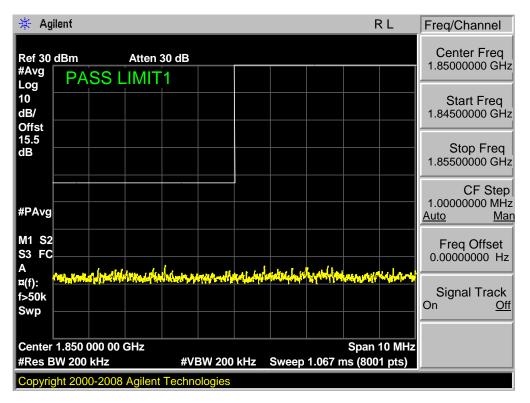
Band 2,UL Channel 19125,UL Frequency 1902.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



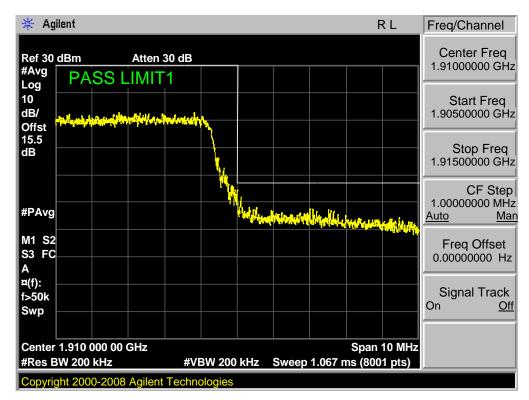


Band 2,UL Channel 19125,UL Frequency 1902.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM

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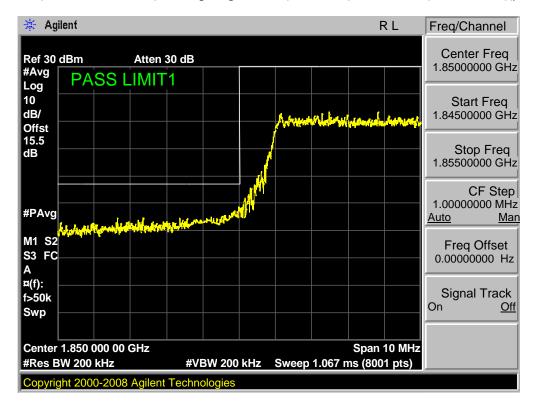
Band 2,UL Channel 19125,UL Frequency 1902.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM



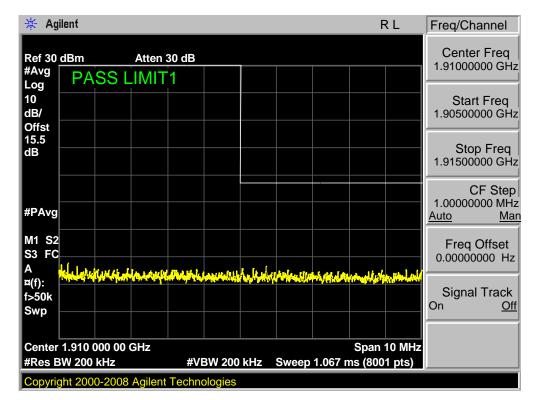


Band 2,UL Channel 18700,UL Frequency 1860.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK

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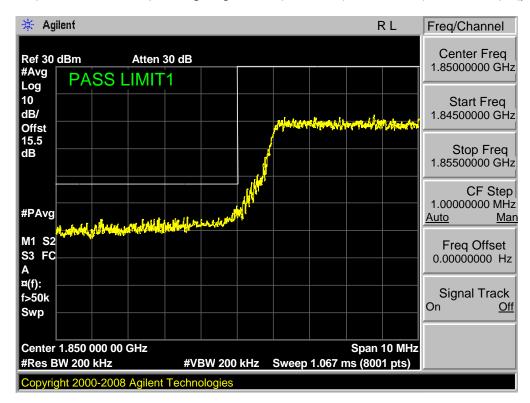
Band 2,UL Channel 18700,UL Frequency 1860.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK



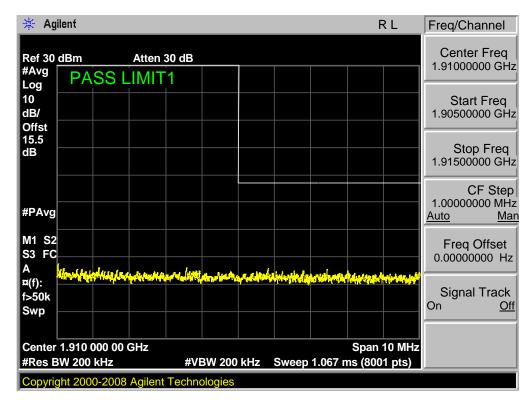


Band 2,UL Channel 18700,UL Frequency 1860.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM

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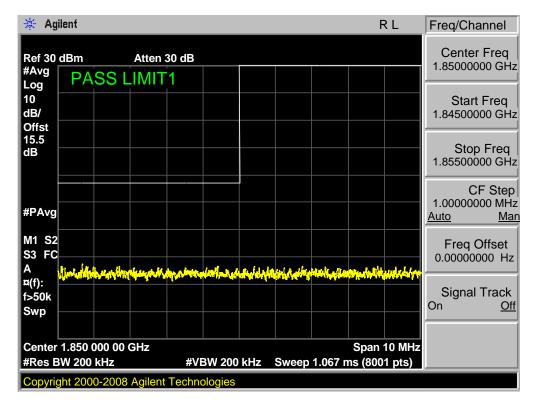
Band 2,UL Channel 18700,UL Frequency 1860.0,EW 20.0,NO. RB 100,RB POS. Low,16QAM



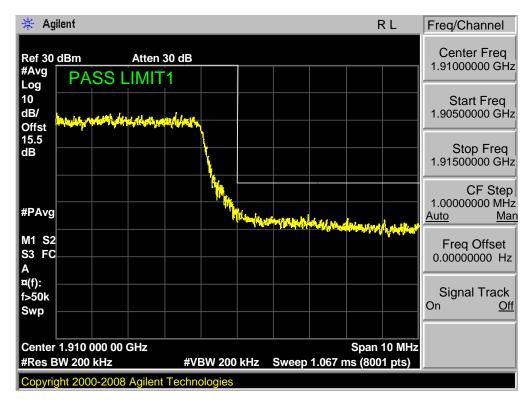


Band 2,UL Channel 19100,UL Frequency 1900.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK

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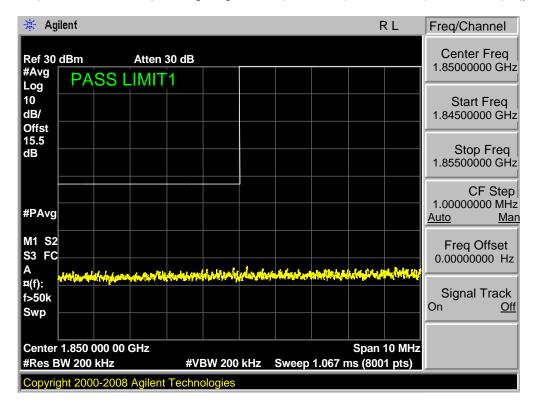
Band 2,UL Channel 19100,UL Frequency 1900.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK



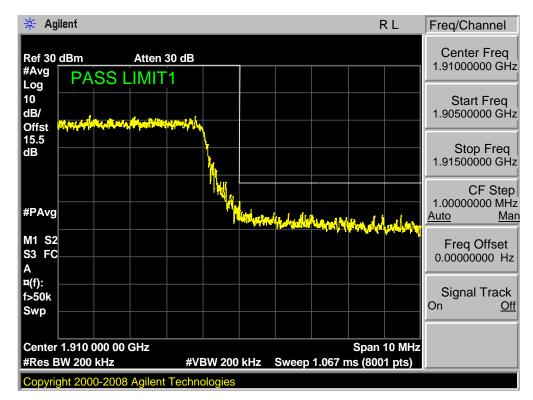


Band 2,UL Channel 19100,UL Frequency 1900.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM

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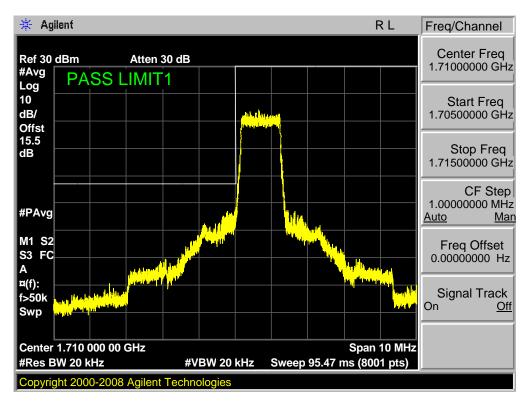
Band 2,UL Channel 19100,UL Frequency 1900.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM



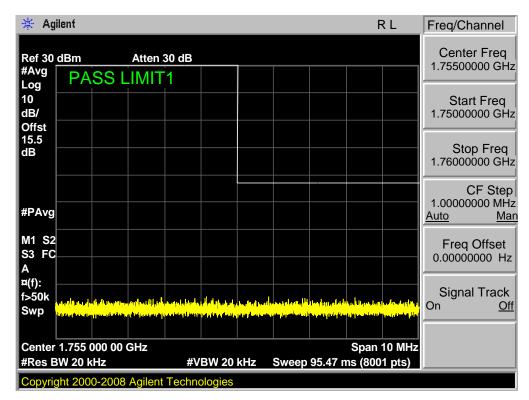


6.1.2. LTE BAND 4

Band 4,UL Channel 19957,UL Frequency 1710.7,BW 1.4,NO. RB 6,RB POS. Low,QPSK



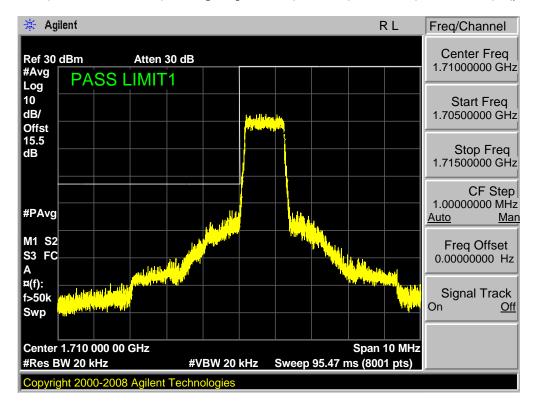
Band 4,UL Channel 19957,UL Frequency 1710.7,BW 1.4,NO. RB 6,RB POS. Low,QPSK



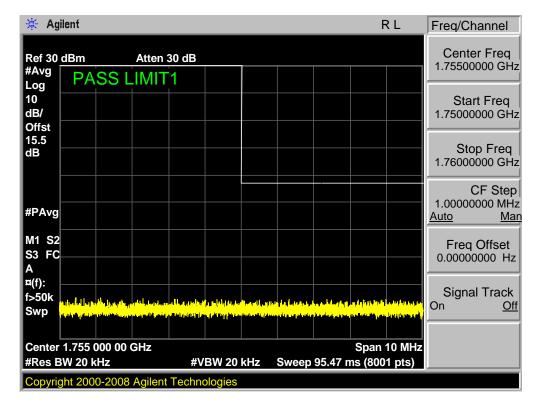


Band 4,UL Channel 19957,UL Frequency 1710.7,BW 1.4,NO. RB 6,RB POS. Low,16QAM

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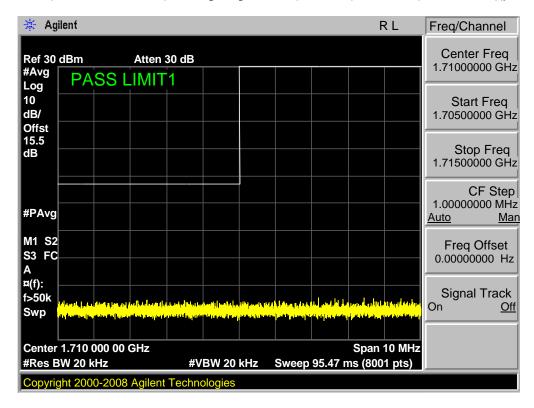
Band 4,UL Channel 19957,UL Frequency 1710.7,BW 1.4,NO. RB 6,RB POS. Low,16QAM



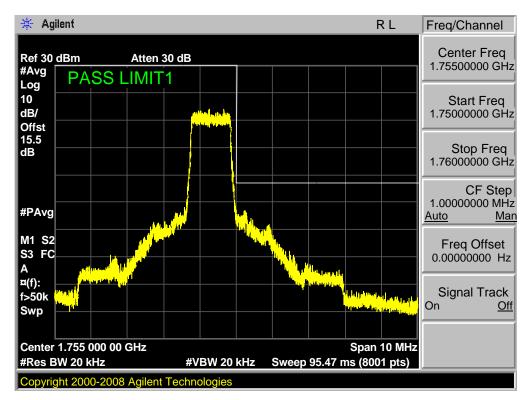


Band 4,UL Channel 20393,UL Frequency 1754.3,BW 1.4,NO. RB 6,RB POS. Low,QPSK

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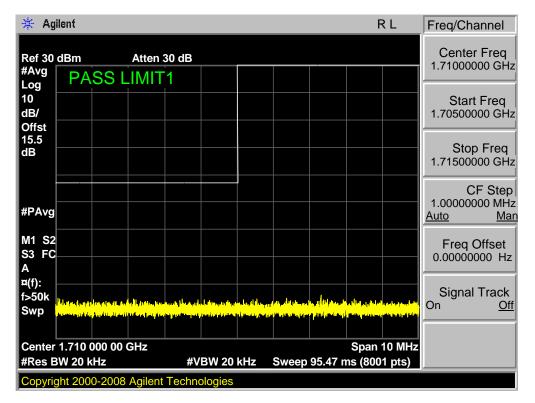
Band 4,UL Channel 20393,UL Frequency 1754.3,BW 1.4,NO. RB 6,RB POS. Low,QPSK



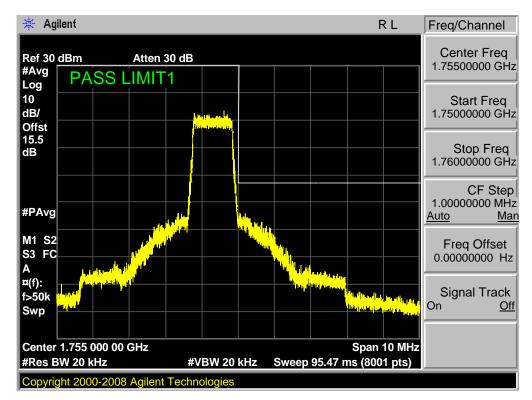


Band 4,UL Channel 20393,UL Frequency 1754.3,BW 1.4,NO. RB 6,RB POS. Low,16QAM

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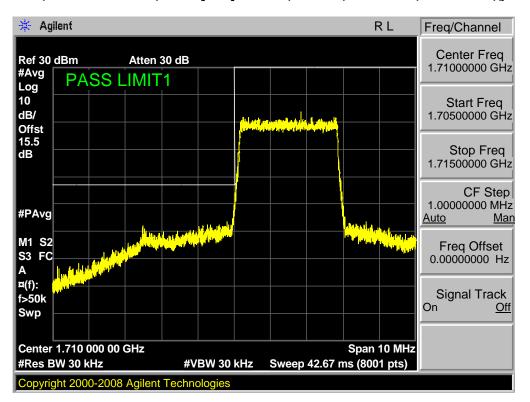
Band 4,UL Channel 20393,UL Frequency 1754.3,BW 1.4,NO. RB 6,RB POS. Low,16QAM



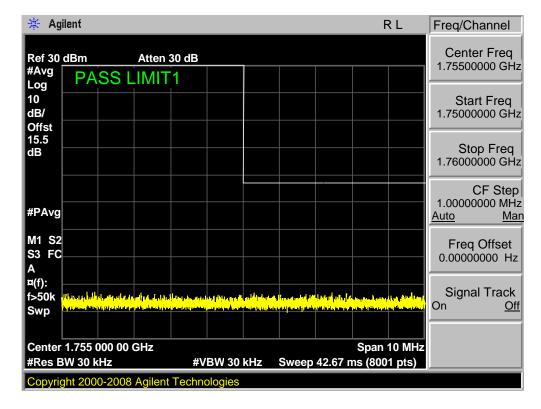


Band 4,UL Channel 19965,UL Frequency 1711.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK

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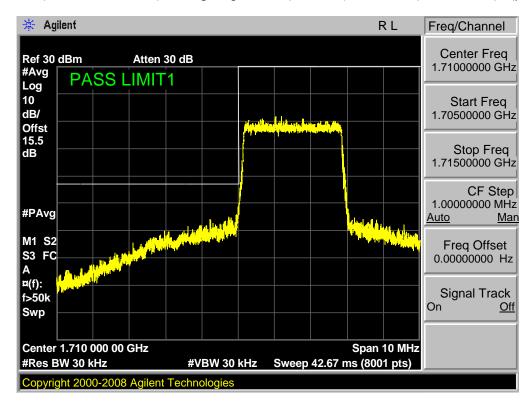
Band 4,UL Channel 19965,UL Frequency 1711.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



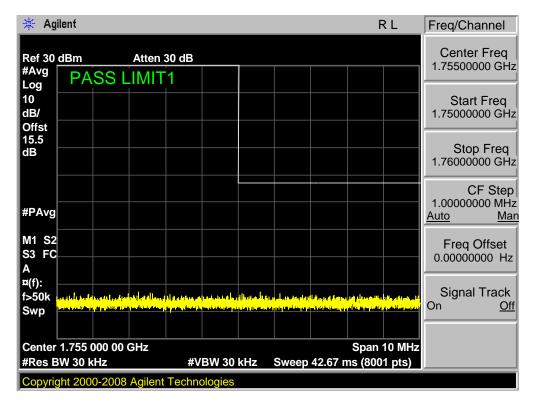


Band 4,UL Channel 19965,UL Frequency 1711.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM

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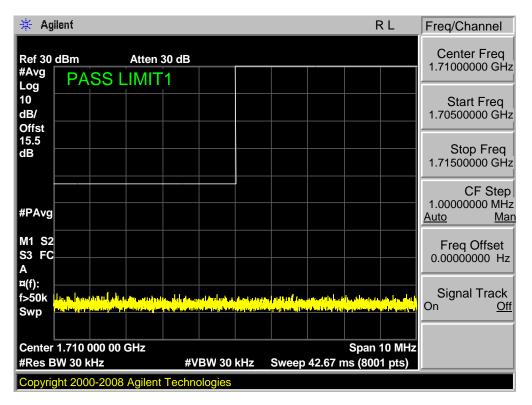


Band 4,UL Channel 19965,UL Frequency 1711.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM

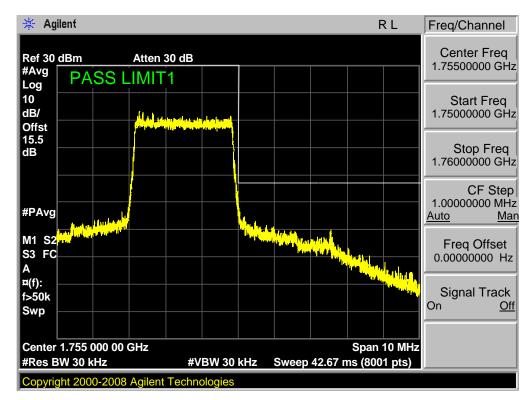




Band 4,UL Channel 20385,UL Frequency 1753.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



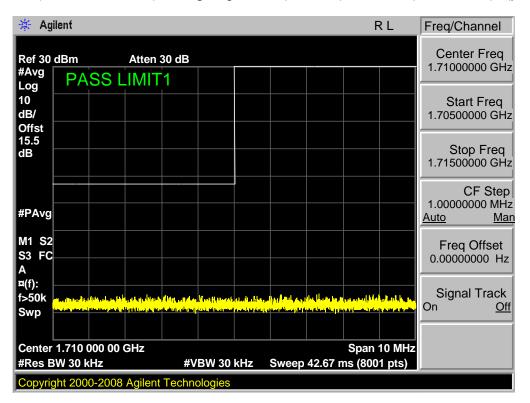
Band 4,UL Channel 20385,UL Frequency 1753.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



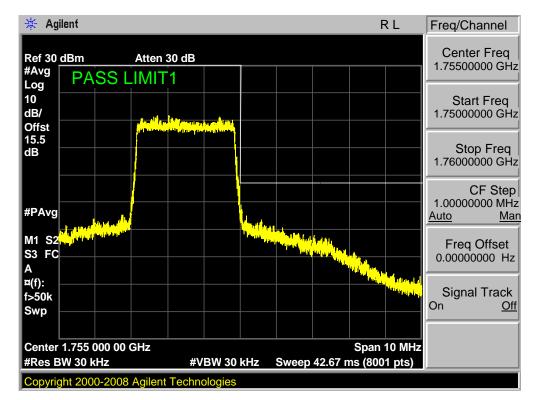


Band 4,UL Channel 20385,UL Frequency 1753.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM

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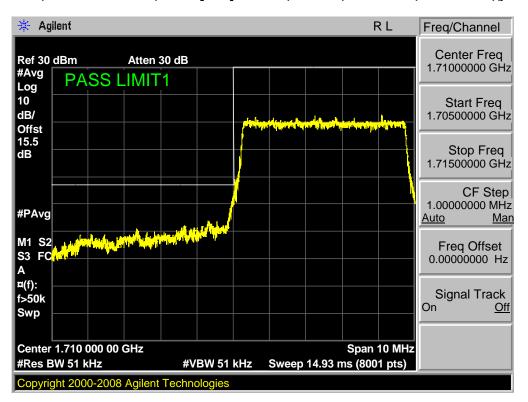
Band 4,UL Channel 20385,UL Frequency 1753.5,BW 3.0,NO. RB 15,RB POS. Low,16QAM



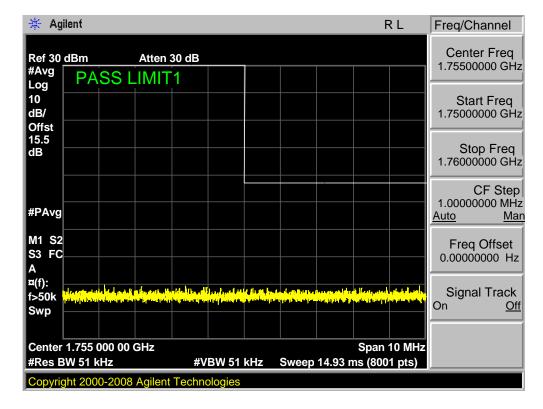


Band 4,UL Channel 19975,UL Frequency 1712.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

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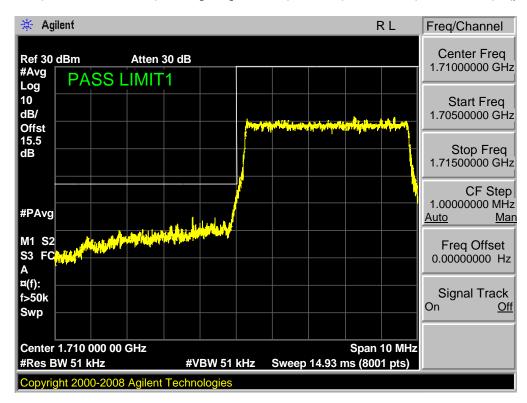
Band 4,UL Channel 19975,UL Frequency 1712.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



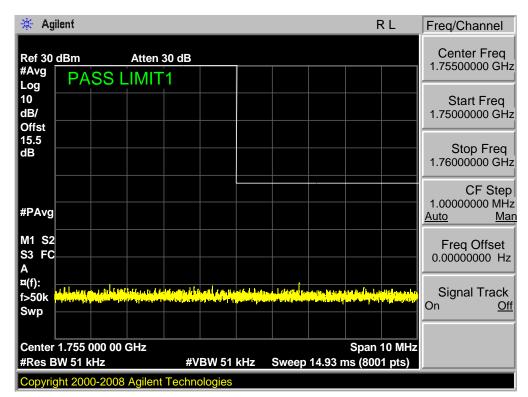


Band 4,UL Channel 19975,UL Frequency 1712.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM

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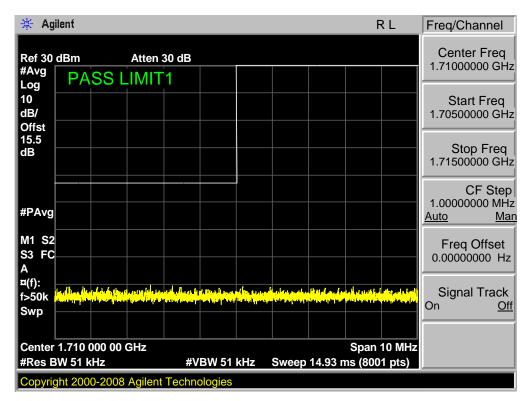
Band 4,UL Channel 19975,UL Frequency 1712.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM



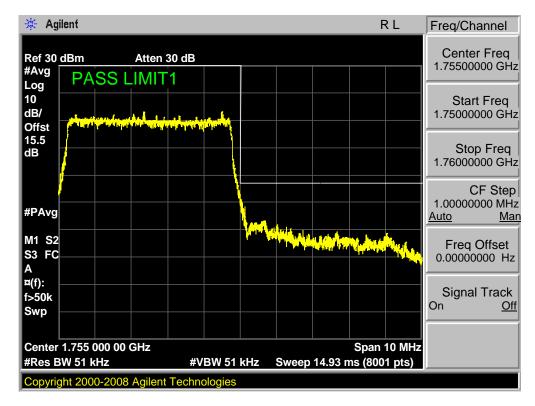


Band 4,UL Channel 20375,UL Frequency 1752.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

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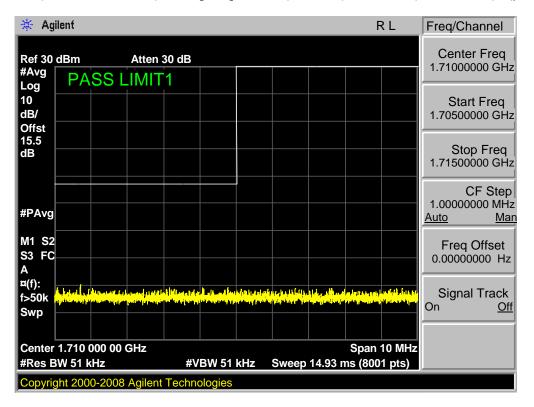
Band 4,UL Channel 20375,UL Frequency 1752.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



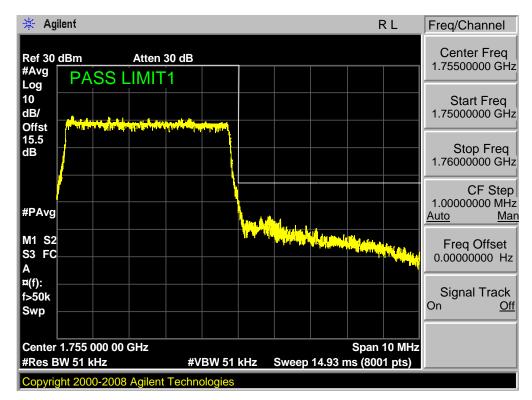


Band 4,UL Channel 20375,UL Frequency 1752.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM

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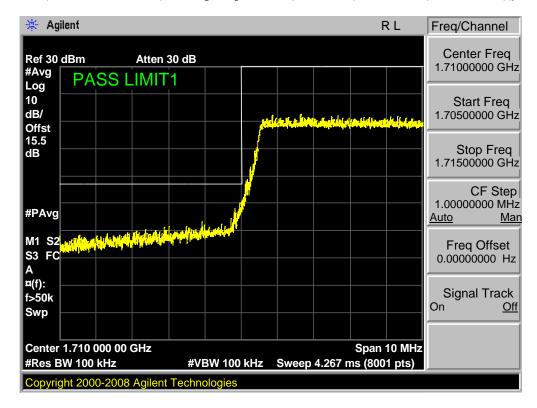
Band 4,UL Channel 20375,UL Frequency 1752.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM



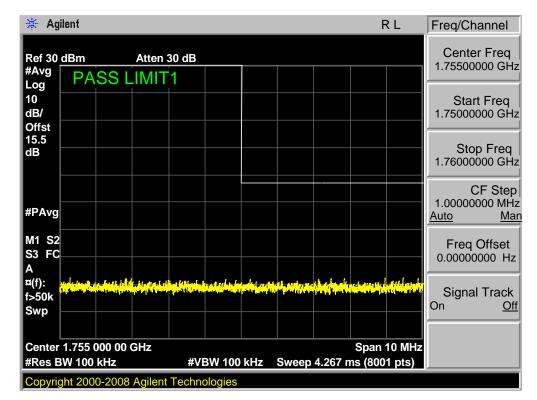


Band 4,UL Channel 20000,UL Frequency 1715.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

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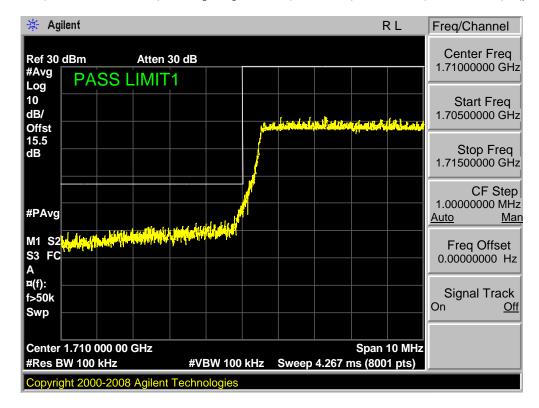
Band 4,UL Channel 20000,UL Frequency 1715.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



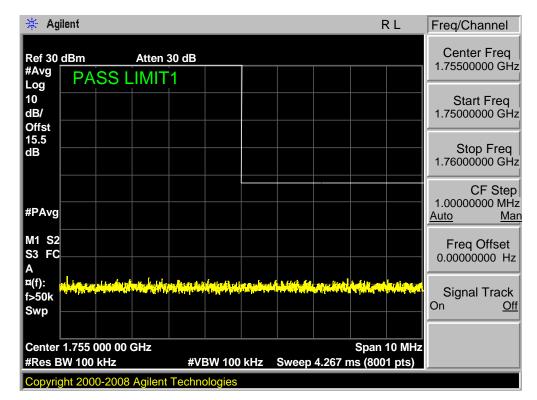


Band 4,UL Channel 20000,UL Frequency 1715.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM

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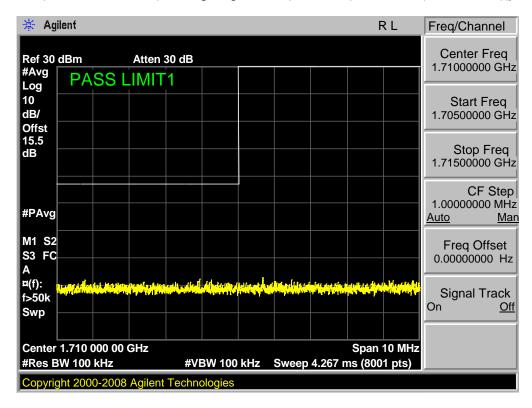
Band 4,UL Channel 20000,UL Frequency 1715.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



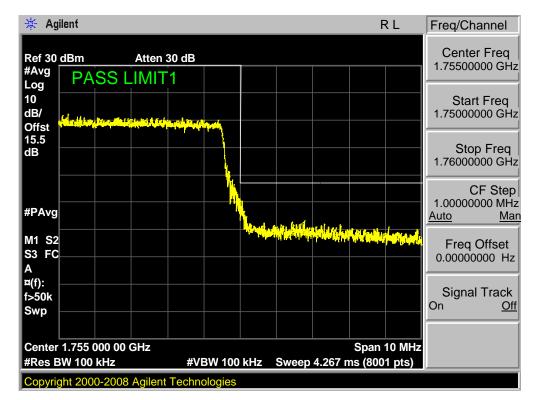


Band 4,UL Channel 20350,UL Frequency 1750.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

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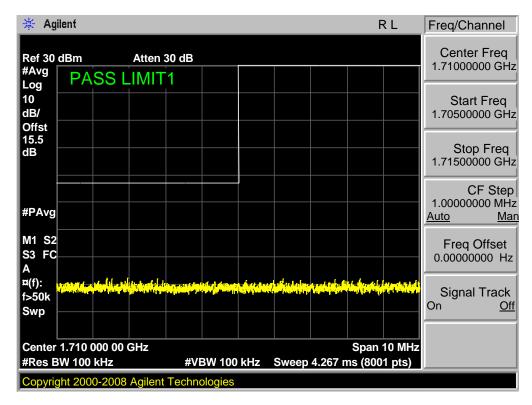
Band 4,UL Channel 20350,UL Frequency 1750.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



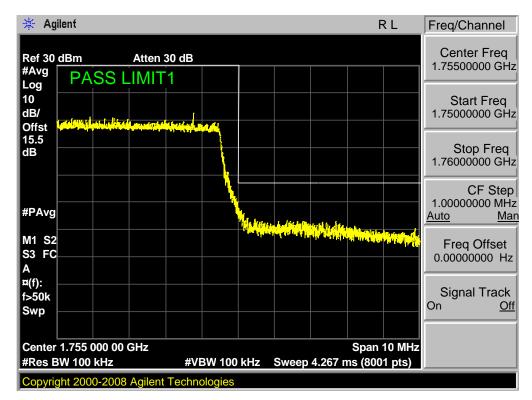


Band 4,UL Channel 20350,UL Frequency 1750.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM

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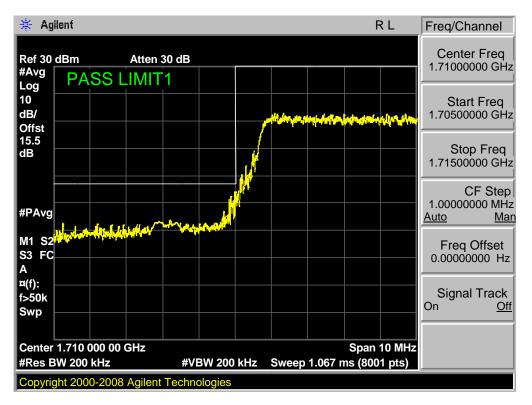


Band 4,UL Channel 20350,UL Frequency 1750.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM

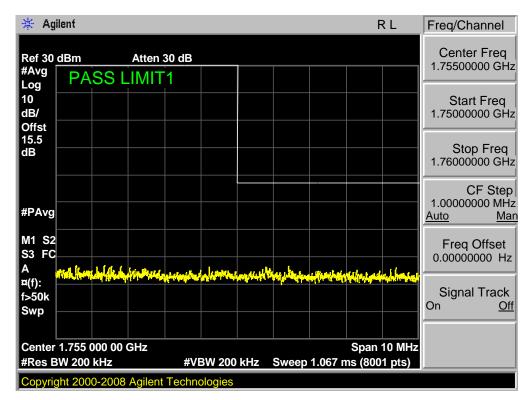




Band 4,UL Channel 20025,UL Frequency 1717.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



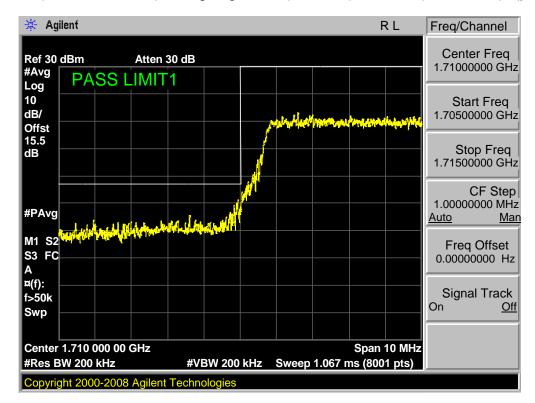
Band 4,UL Channel 20025,UL Frequency 1717.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



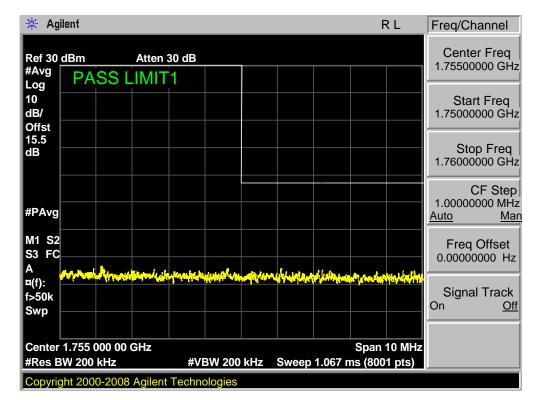


Band 4,UL Channel 20025,UL Frequency 1717.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM

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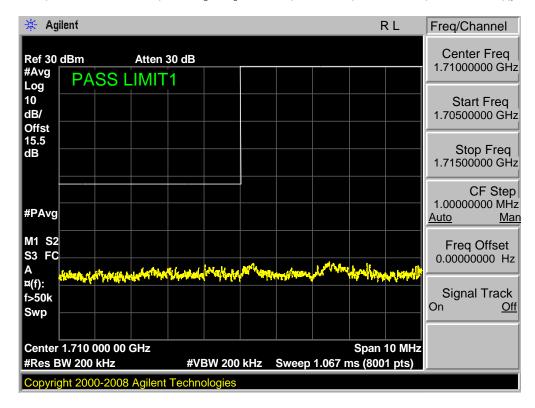


Band 4,UL Channel 20025,UL Frequency 1717.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM

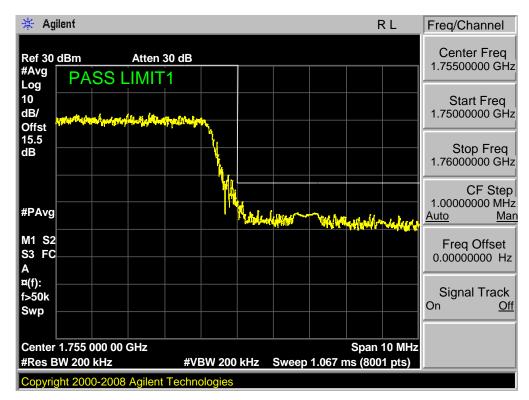




Band 4,UL Channel 20325,UL Frequency 1747.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK

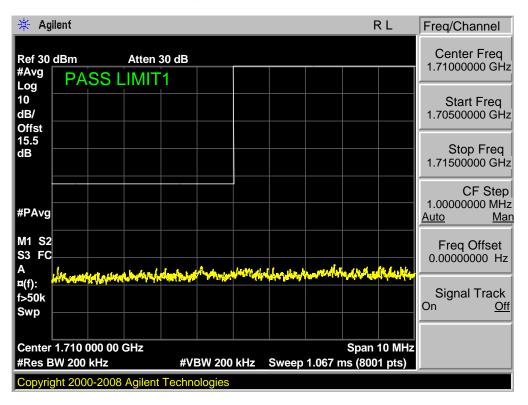


Band 4,UL Channel 20325,UL Frequency 1747.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK

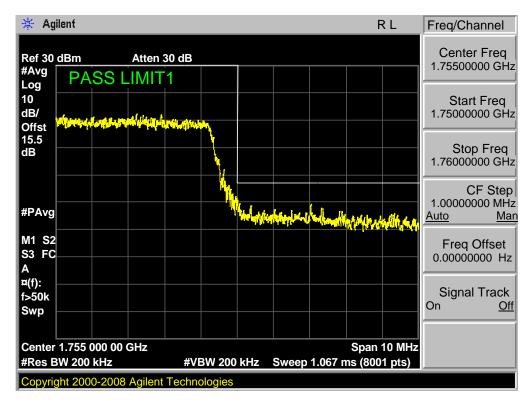




Band 4,UL Channel 20325,UL Frequency 1747.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM



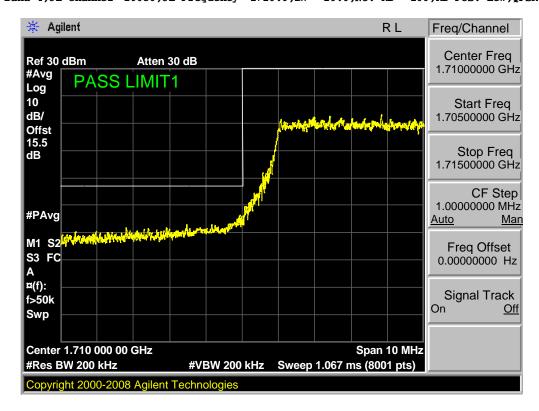
Band 4,UL Channel 20325,UL Frequency 1747.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM



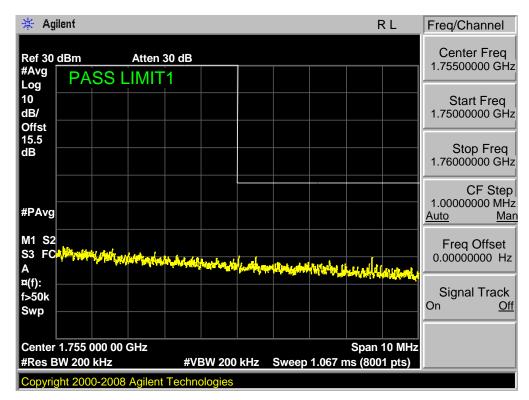


Band 4,UL Channel 20050,UL Frequency 1720.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK

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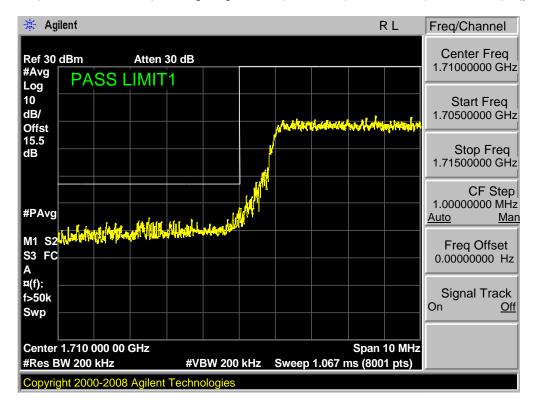


Band 4,UL Channel 20050,UL Frequency 1720.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK

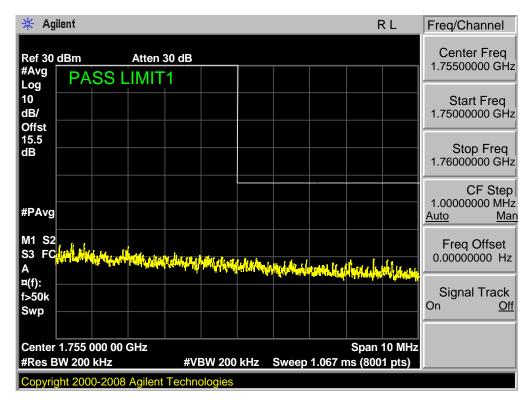




Band 4,UL Channel 20050,UL Frequency 1720.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM

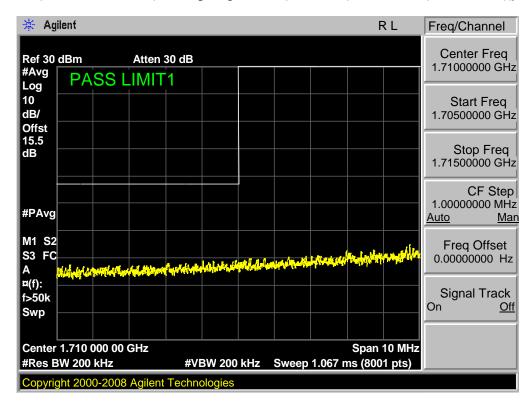


Band 4,UL Channel 20050,UL Frequency 1720.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM

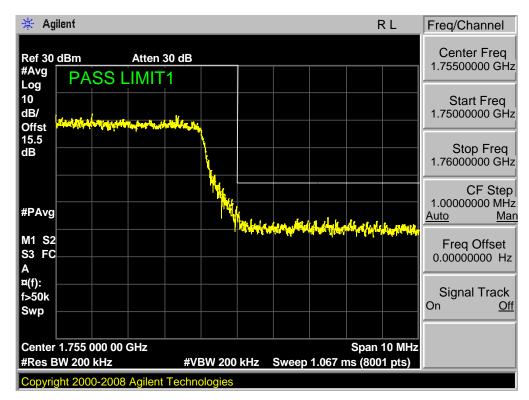




Band 4,UL Channel 20300,UL Frequency 1745.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK

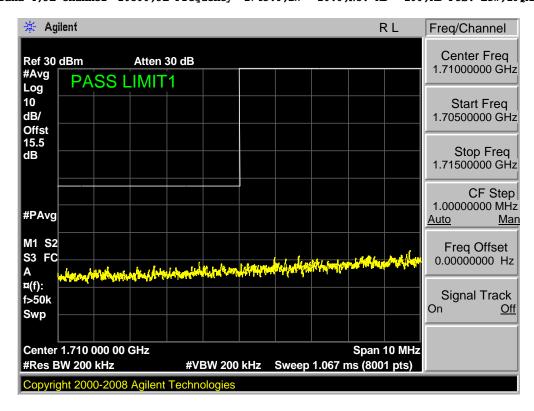


Band 4,UL Channel 20300,UL Frequency 1745.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK

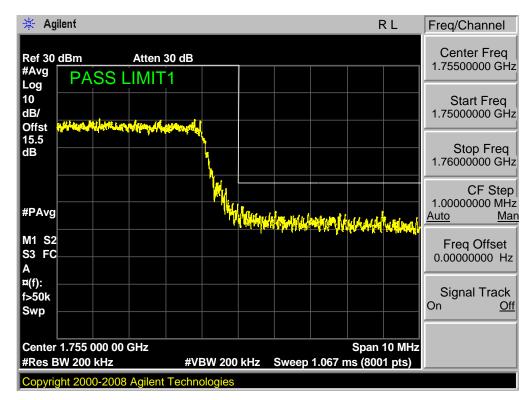




Band 4,UL Channel 20300,UL Frequency 1745.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM



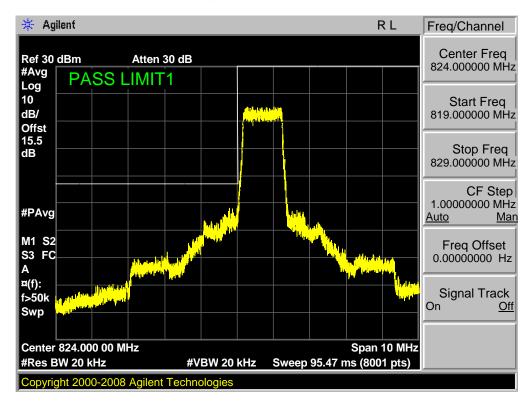
Band 4,UL Channel 20300,UL Frequency 1745.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM



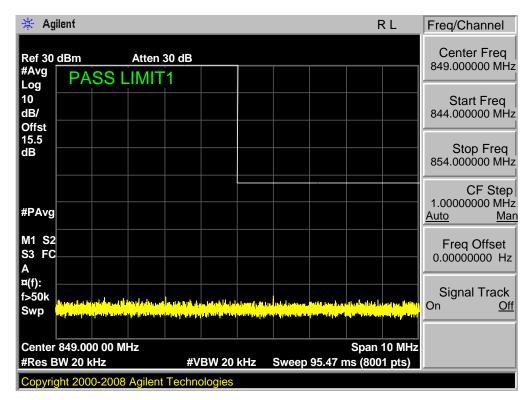


6.1.3. LTE BAND 5

Band 5,UL Channel 20407,UL Frequency 824.7,BW 1.4,NO. RB 6,RB POS. Low,QPSK



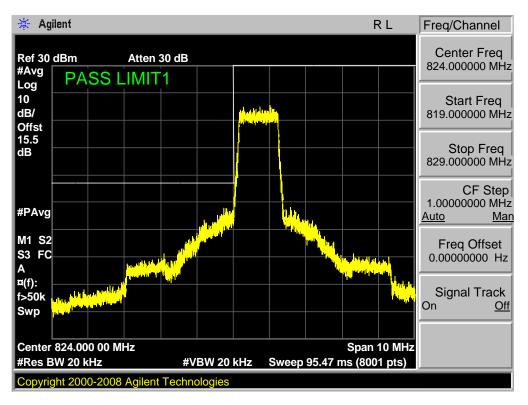
Band 5,UL Channel 20407,UL Frequency 824.7,BW 1.4,NO. RB 6,RB POS. Low,QPSK



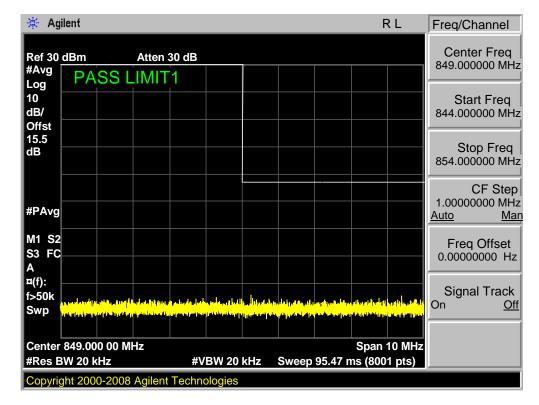


Band 5,UL Channel 20407,UL Frequency 824.7,BW 1.4,NO. RB 6,RB POS. Low,16-QAM

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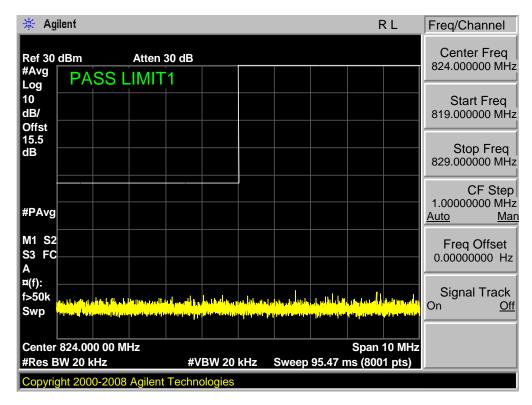
Band 5,UL Channel 20407,UL Frequency 824.7,BW 1.4,NO. RB 6,RB POS. Low,16-QAM



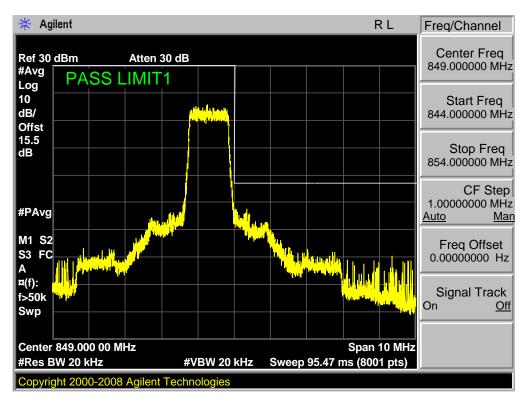


Band 5,UL Channel 20643,UL Frequency 848.3,BW 1.4,NO. RB 6,RB POS. Low,QPSK

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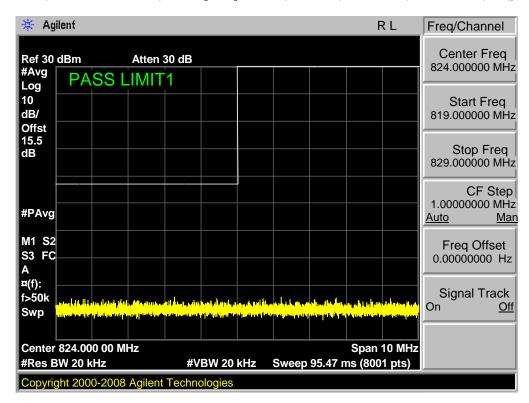


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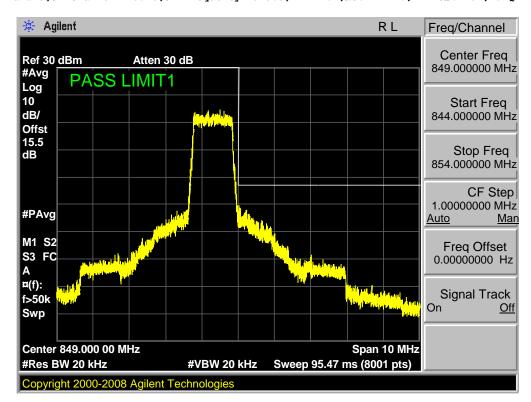




Band 5,UL Channel 20643,UL Frequency 848.3,BW 1.4,NO. RB 6,RB POS. Low,16-QAM

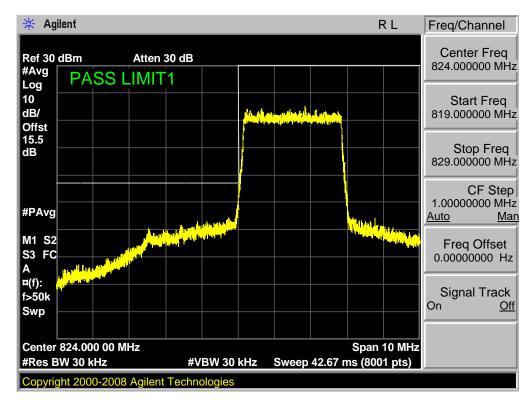


Band 5,UL Channel 20643,UL Frequency 848.3,BW 1.4,NO. RB 6,RB POS. Low,16-QAM

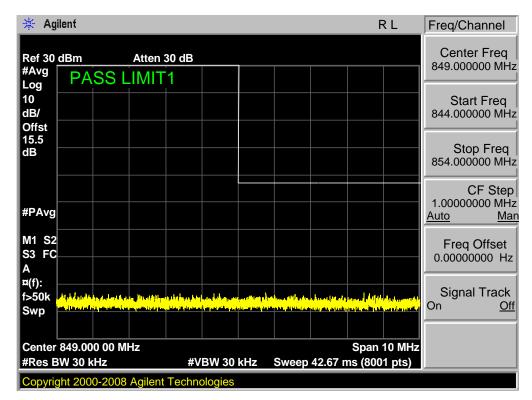




Band 5,UL Channel 20415,UL Frequency 825.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK

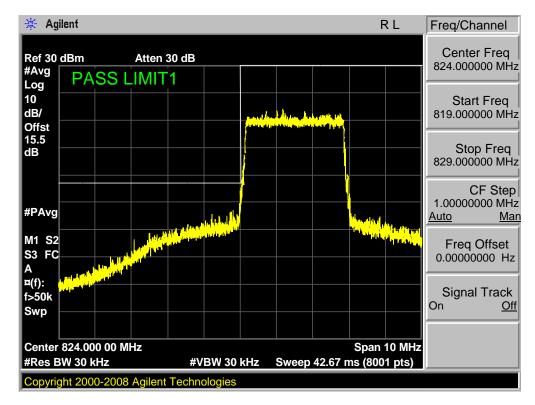


Band 5,UL Channel 20415,UL Frequency 825.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK

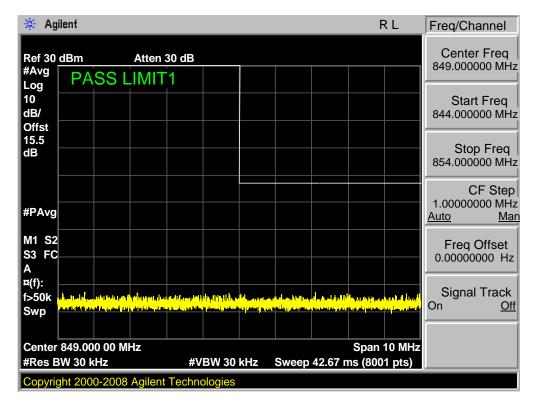




Band 5,UL Channel 20415,UL Frequency 825.5,BW 3.0,NO. RB 15,RB POS. Low,16-QAM

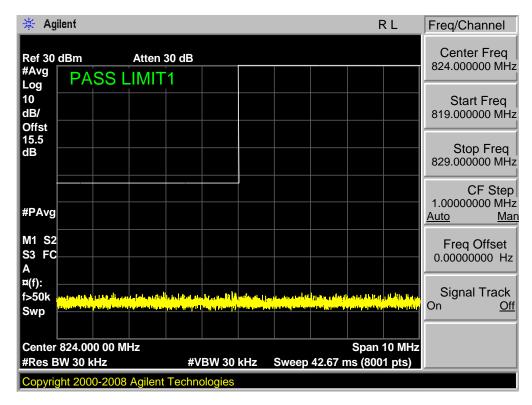


Band 5,UL Channel 20415,UL Frequency 825.5,BW 3.0,NO. RB 15,RB POS. Low,16-QAM

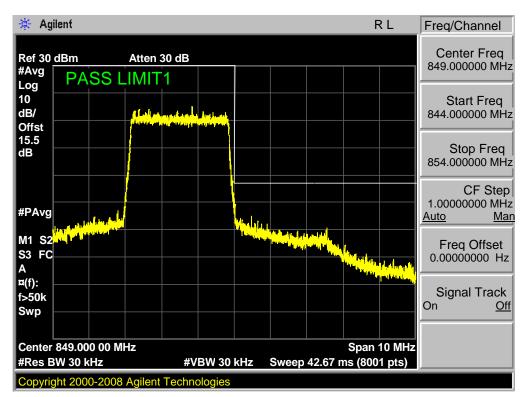




Band 5,UL Channel 20635,UL Frequency 847.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK

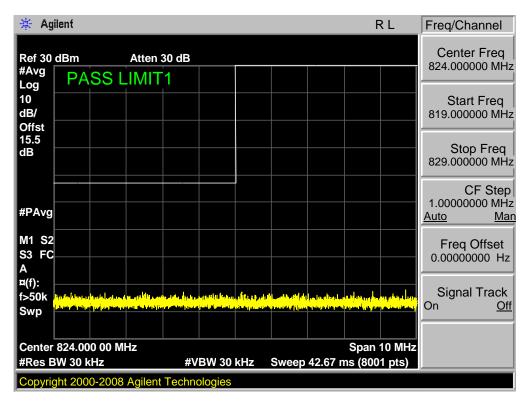


Band 5,UL Channel 20635,UL Frequency 847.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK

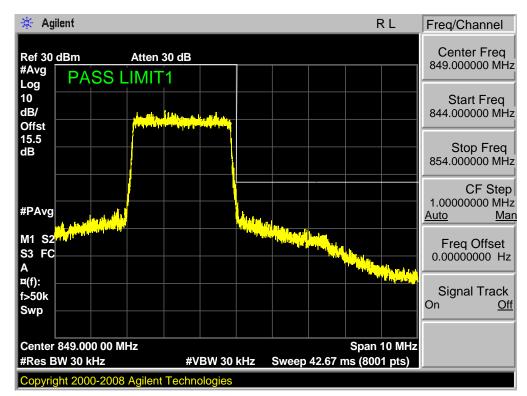




Band 5,UL Channel 20635,UL Frequency 847.5,BW 3.0,NO. RB 15,RB POS. Low,16-QAM

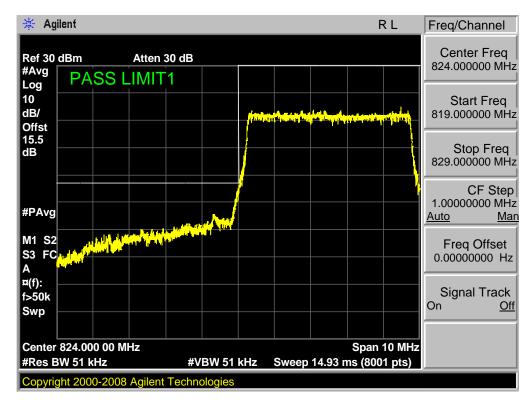


Band 5,UL Channel 20635,UL Frequency 847.5,BW 3.0,NO. RB 15,RB POS. Low,16-QAM

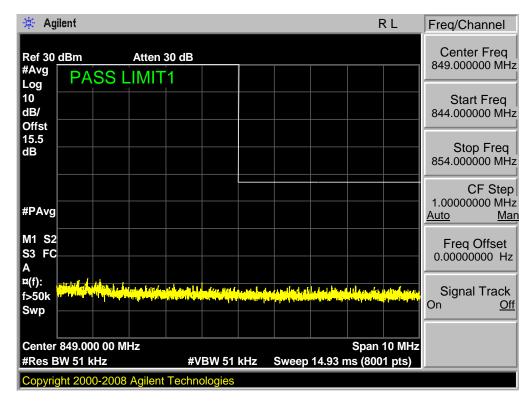




Band 5,UL Channel 20425,UL Frequency 826.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

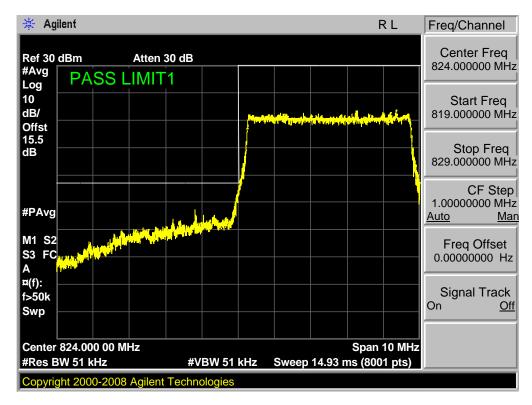


Band 5,UL Channel 20425,UL Frequency 826.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

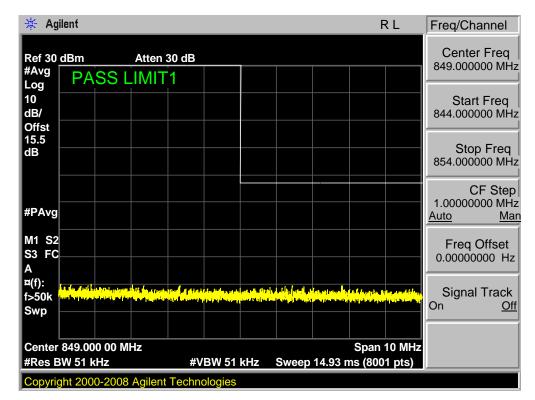




Band 5,UL Channel 20425,UL Frequency 826.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM

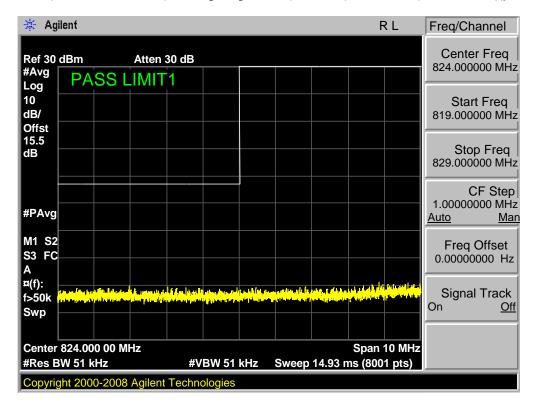


Band 5,UL Channel 20425,UL Frequency 826.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM

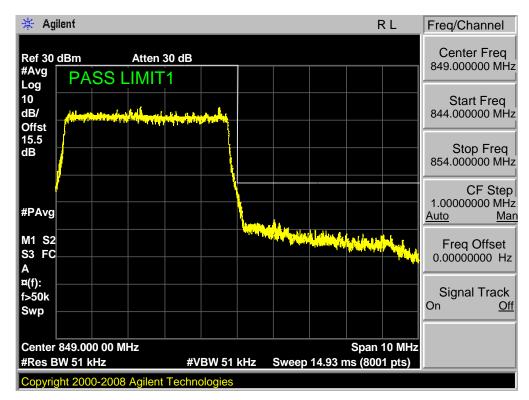




Band 5,UL Channel 20625,UL Frequency 846.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

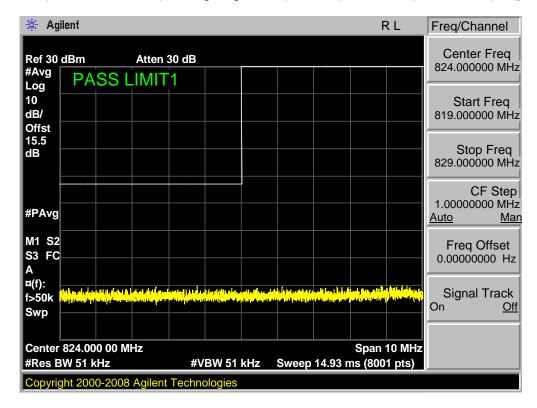


Band 5,UL Channel 20625,UL Frequency 846.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

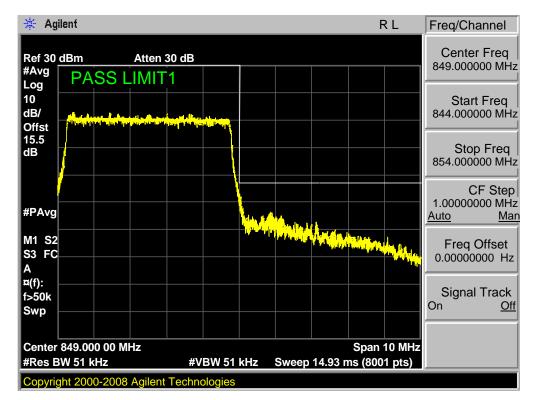




Band 5,UL Channel 20625,UL Frequency 846.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM

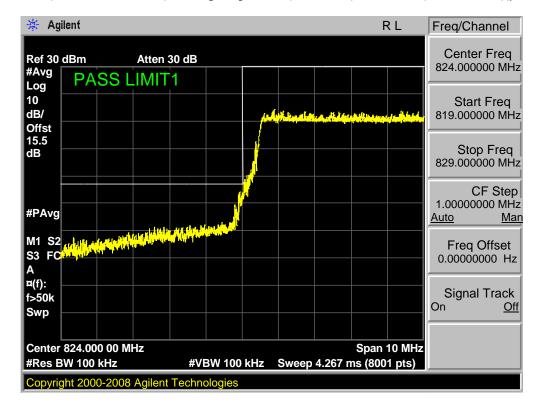


Band 5,UL Channel 20625,UL Frequency 846.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM

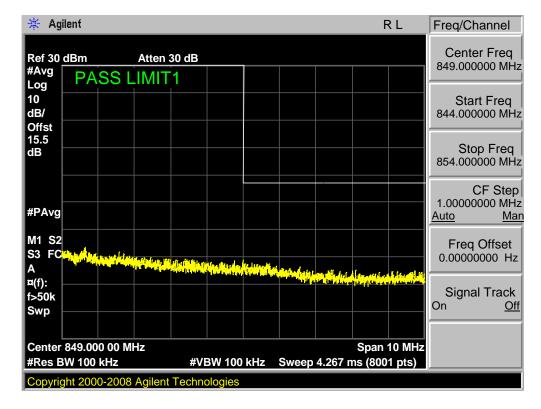




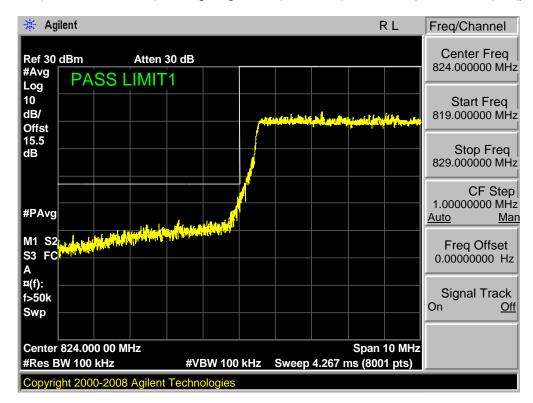
Band 5,UL Channel 20450,UL Frequency 829.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



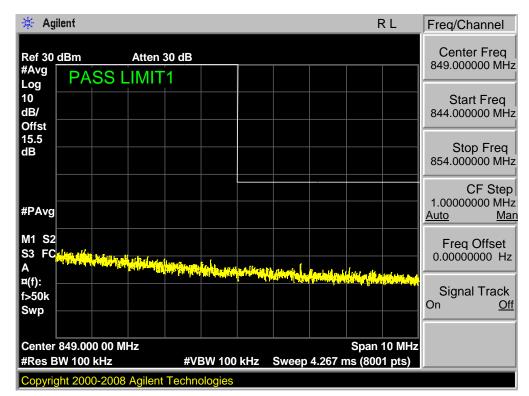
Band 5,UL Channel 20450,UL Frequency 829.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



Band 5,UL Channel 20450,UL Frequency 829.0,BW 10.0,NO. RB 50,RB POS. Low,16-QAM

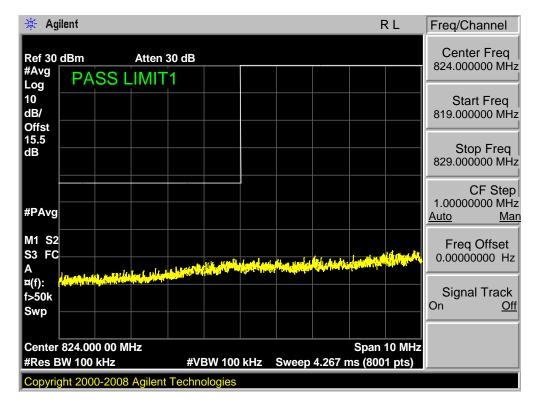


Band 5,UL Channel 20450,UL Frequency 829.0,BW 10.0,NO. RB 50,RB POS. Low,16-QAM

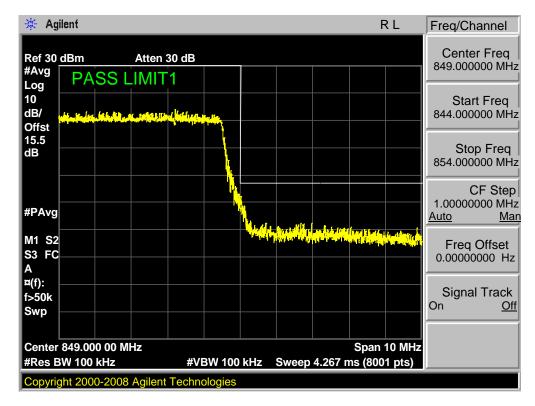




Band 5,UL Channel 20600,UL Frequency 844.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

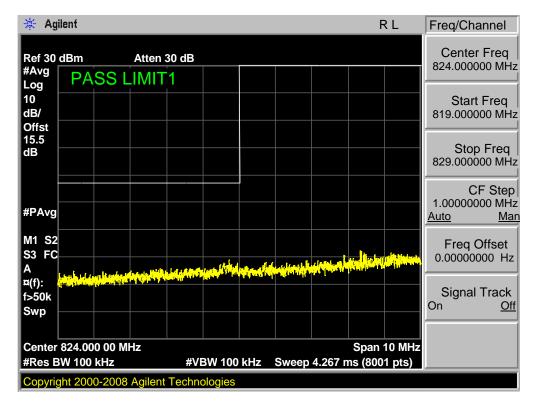


Band 5,UL Channel 20600,UL Frequency 844.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

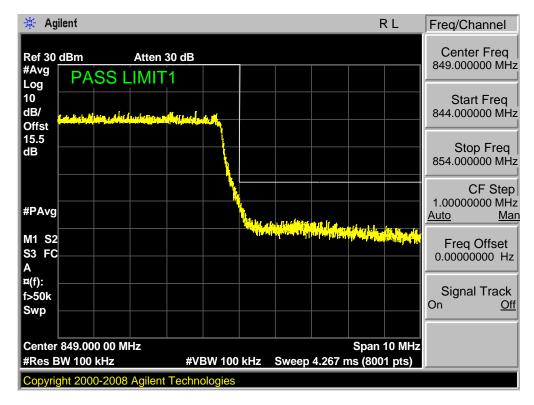




Band 5,UL Channel 20600,UL Frequency 844.0,BW 10.0,NO. RB 50,RB POS. Low,16-QAM



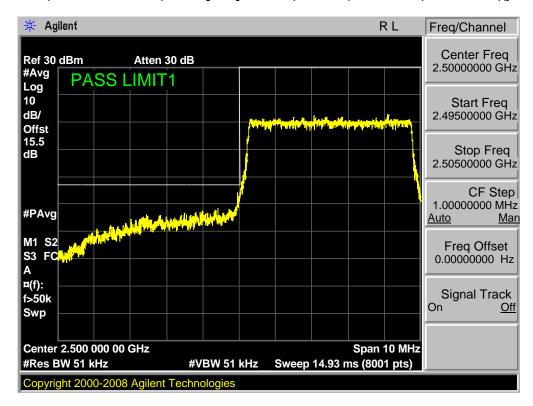
Band 5,UL Channel 20600,UL Frequency 844.0,BW 10.0,NO. RB 50,RB POS. Low,16-QAM



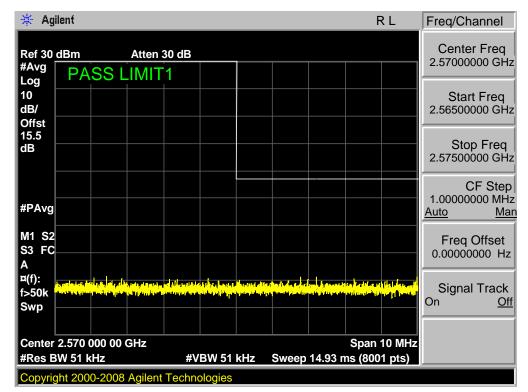


6.1.4. LTE BAND 7

Band 7,UL Channel 20775,UL Frequency 2502.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

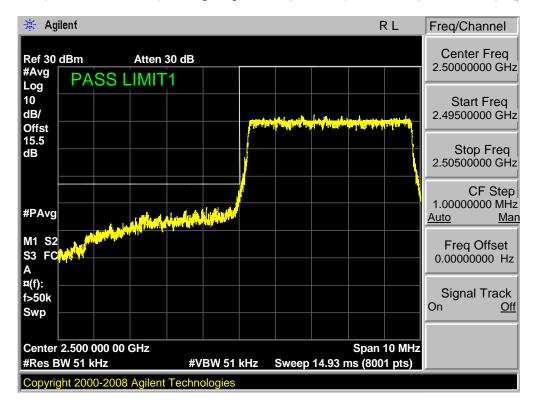


Band 7,UL Channel 20775,UL Frequency 2502.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

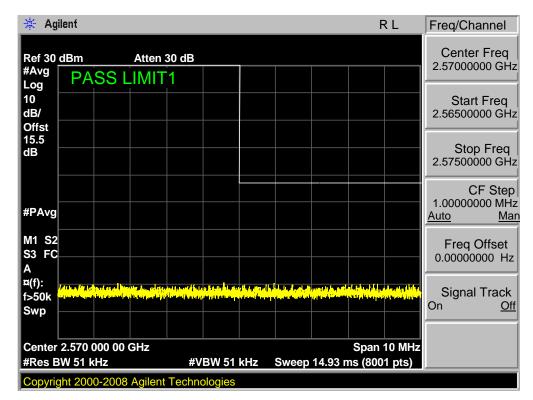




Band 7,UL Channel 20775,UL Frequency 2502.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM

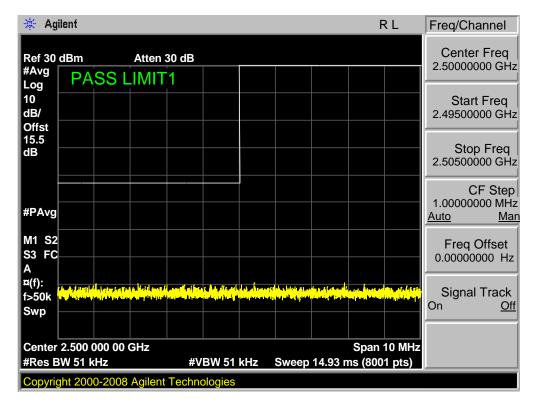


Band 7,UL Channel 20775,UL Frequency 2502.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM

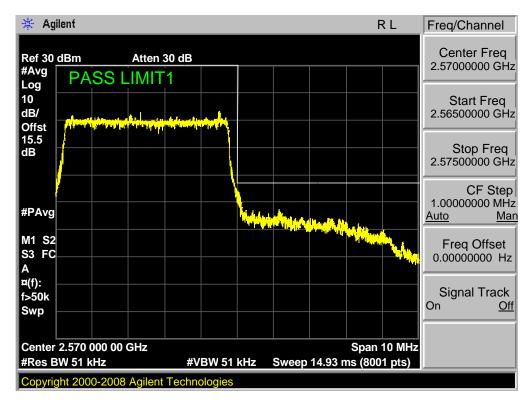




Band 7,UL Channel 21425,UL Frequency 2567.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

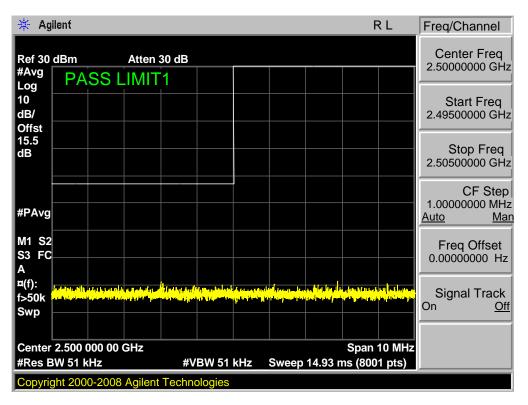


Band 7,UL Channel 21425,UL Frequency 2567.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

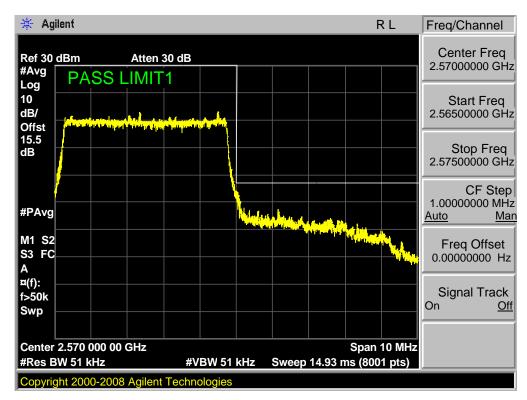




Band 7,UL Channel 21425,UL Frequency 2567.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM

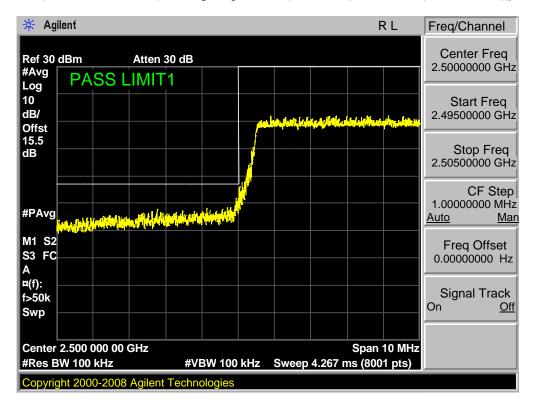


Band 7,UL Channel 21425,UL Frequency 2567.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM

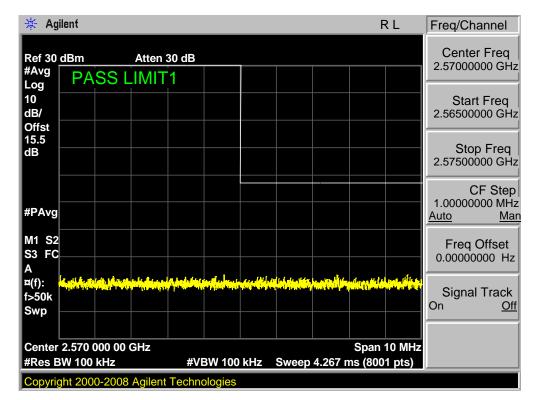




Band 7,UL Channel 20800,UL Frequency 2505.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

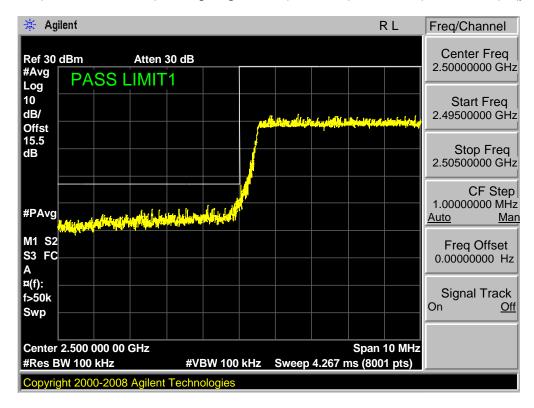


Band 7,UL Channel 20800,UL Frequency 2505.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

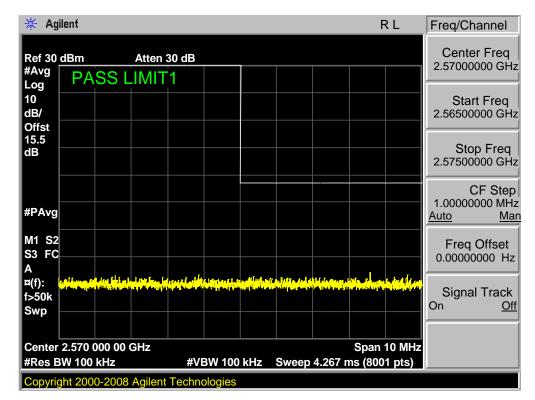




Band 7,UL Channel 20800,UL Frequency 2505.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM

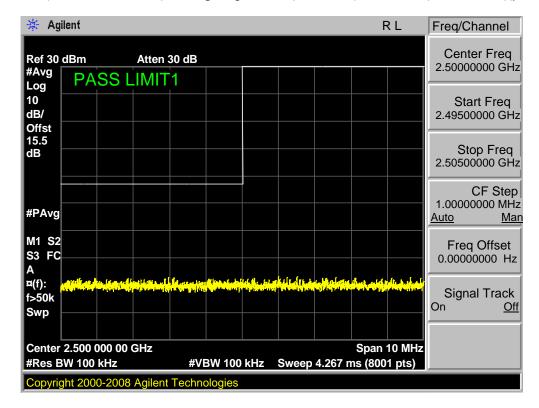


Band 7,UL Channel 20800,UL Frequency 2505.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM

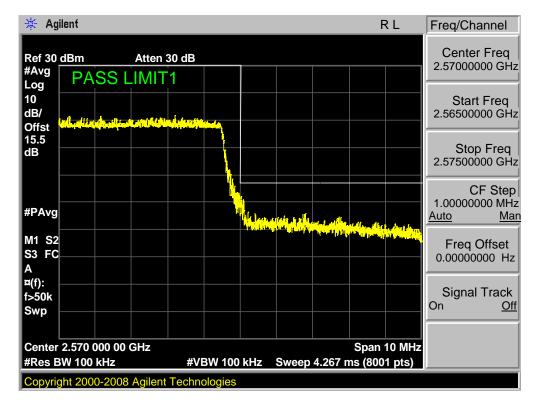




Band 7,UL Channel 21400,UL Frequency 2565.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



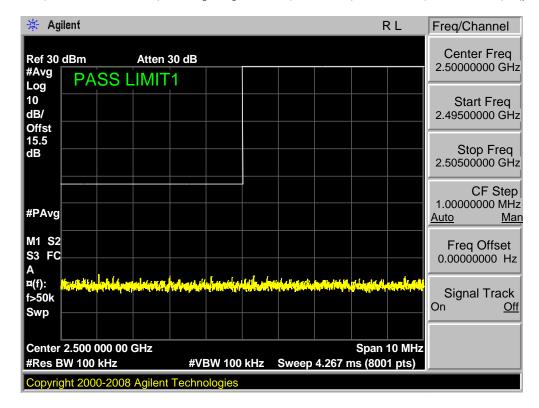
Band 7,UL Channel 21400,UL Frequency 2565.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



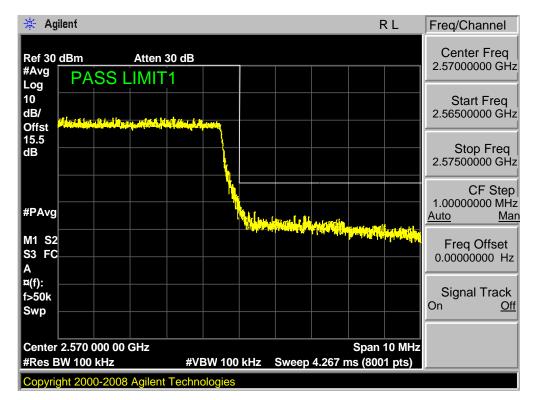


Band 7,UL Channel 21400,UL Frequency 2565.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM

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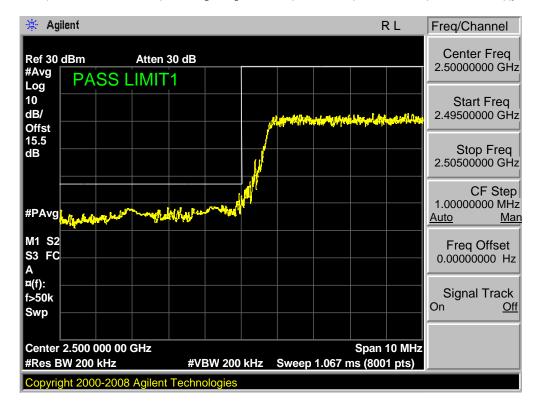


Band 7,UL Channel 21400,UL Frequency 2565.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM

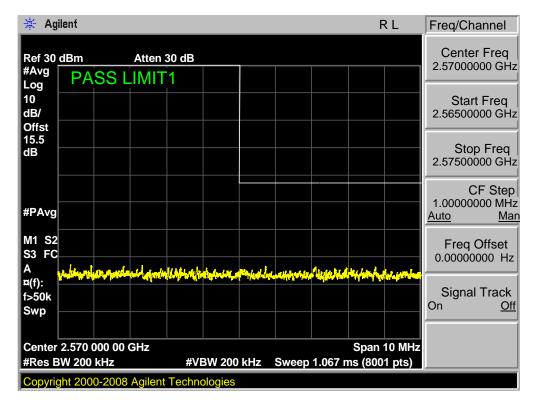




Band 7,UL Channel 20825,UL Frequency 2507.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



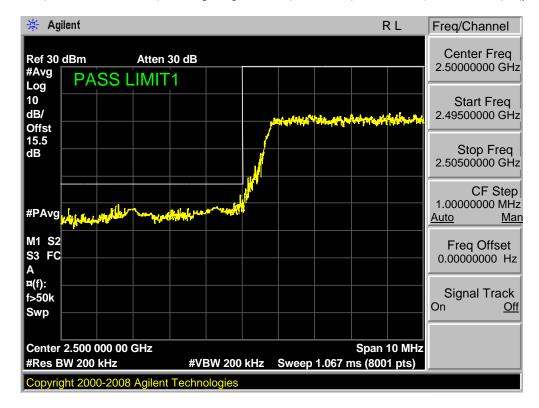
Band 7,UL Channel 20825,UL Frequency 2507.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



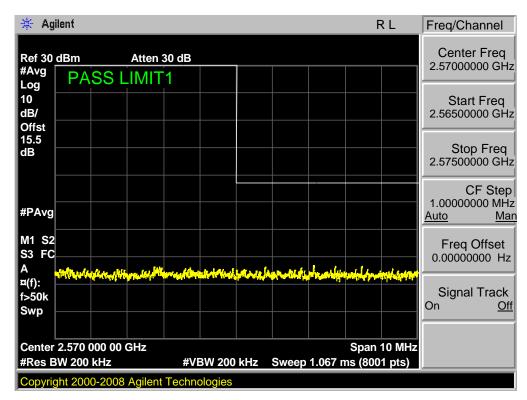


Band 7,UL Channel 20825,UL Frequency 2507.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM

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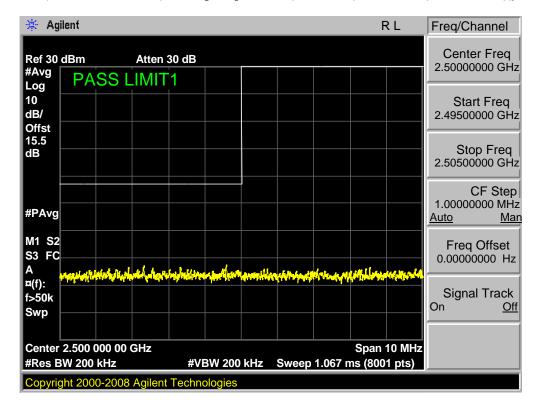
Band 7,UL Channel 20825,UL Frequency 2507.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM



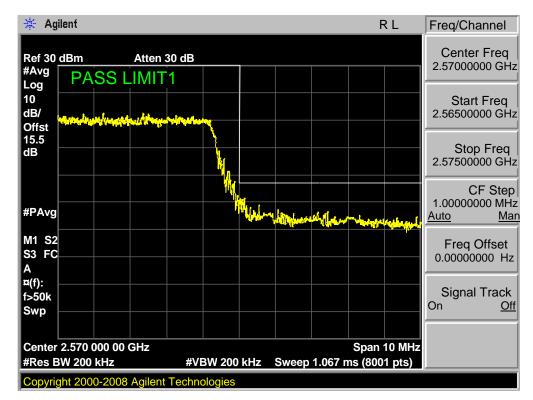


Band 7,UL Channel 21375,UL Frequency 2562.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK

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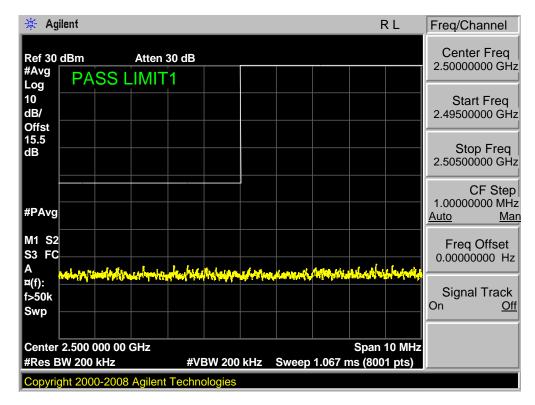
Band 7,UL Channel 21375,UL Frequency 2562.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



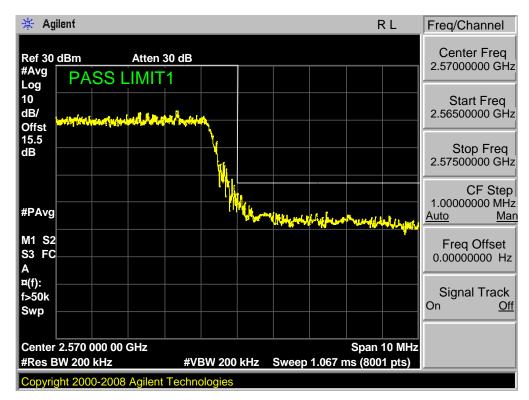


Band 7,UL Channel 21375,UL Frequency 2562.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM

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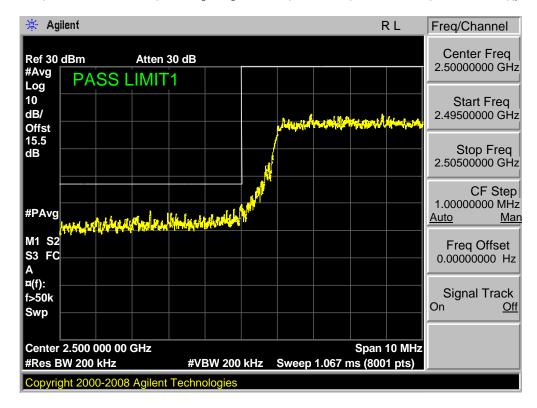
Band 7,UL Channel 21375,UL Frequency 2562.5,BW 15.0,NO. RB 75,RB POS. Low,16QAM



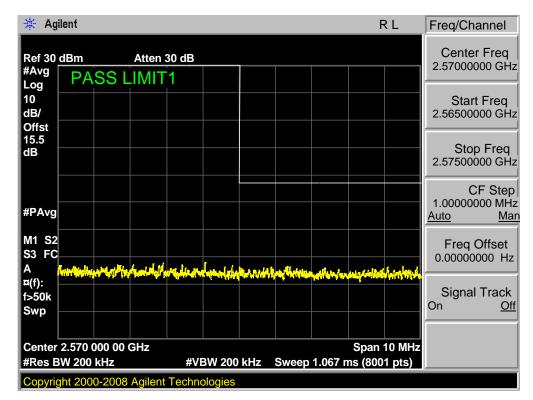


Band 7,UL Channel 20850,UL Frequency 2510.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK

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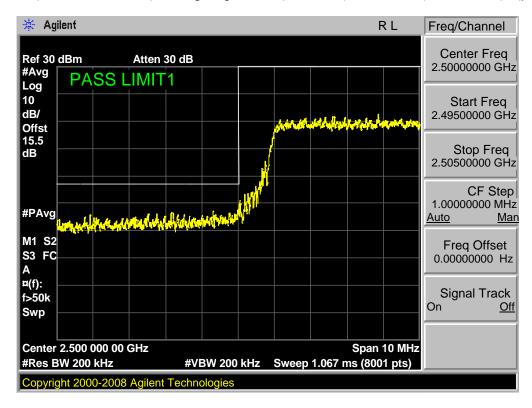
Band 7,UL Channel 20850,UL Frequency 2510.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK



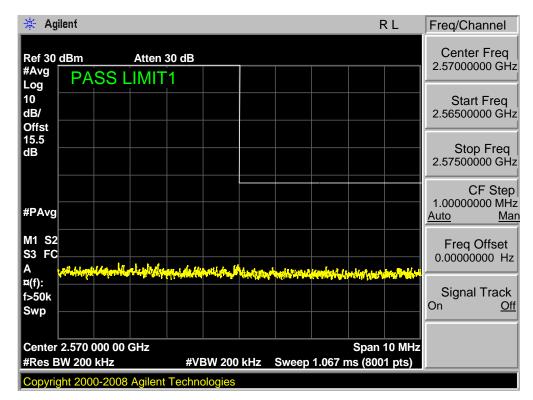


Band 7,UL Channel 20850,UL Frequency 2510.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM

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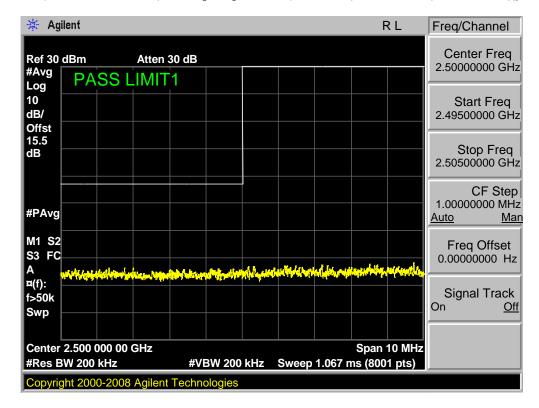
Band 7,UL Channel 20850,UL Frequency 2510.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM



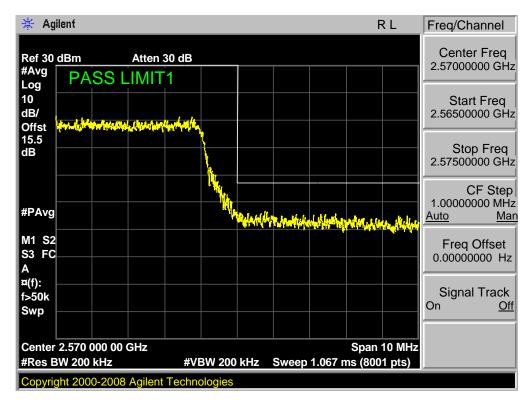


Band 7,UL Channel 21350,UL Frequency 2560.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK

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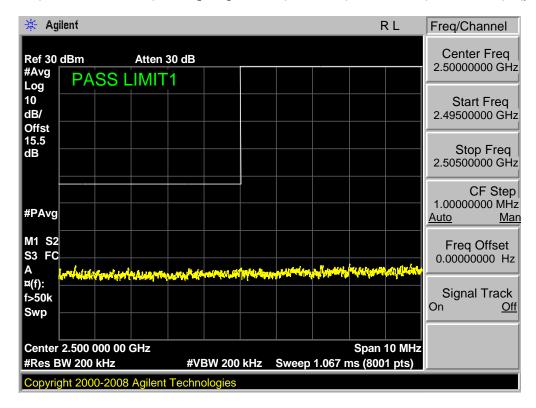
Band 7,UL Channel 21350,UL Frequency 2560.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK



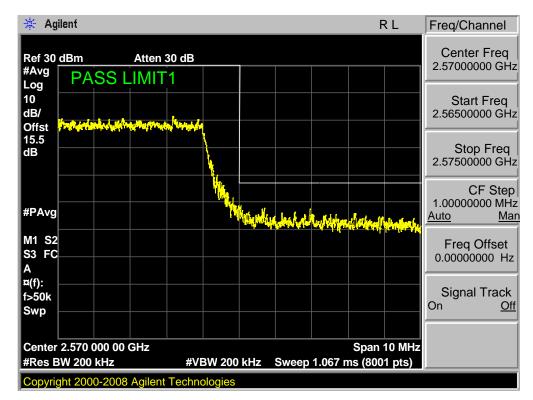


Band 7,UL Channel 21350,UL Frequency 2560.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM

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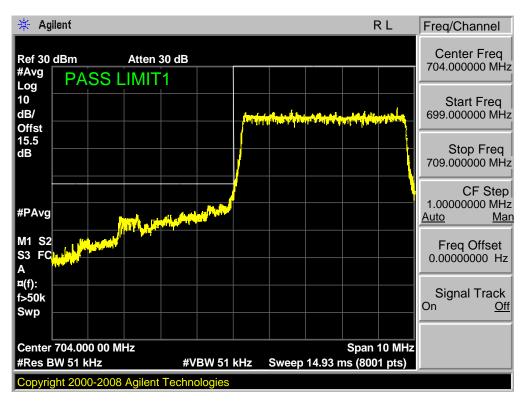
Band 7,UL Channel 21350,UL Frequency 2560.0,BW 20.0,NO. RB 100,RB POS. Low,16QAM



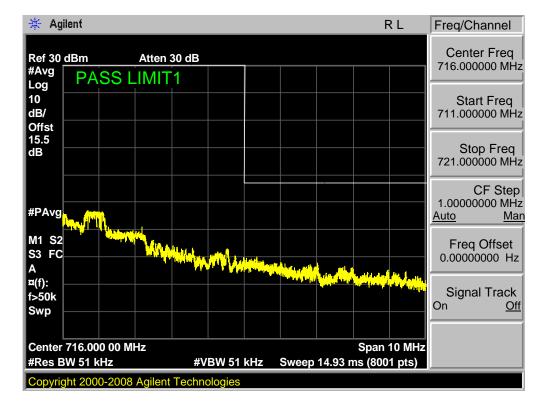


6.1.5. LTE BAND 17

Band 17,UL Channel 23755,UL Frequency 706.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

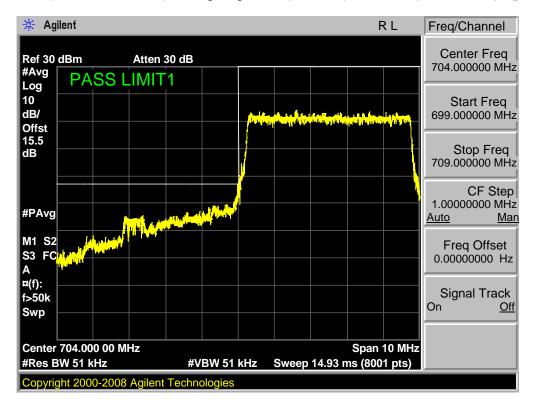


Band 17,UL Channel 23755,UL Frequency 706.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

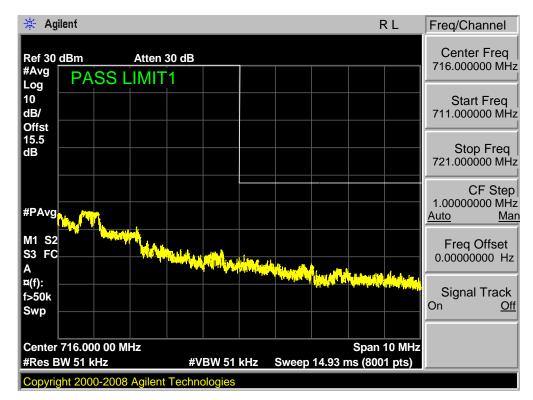




Band 17,UL Channel 23755,UL Frequency 706.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM



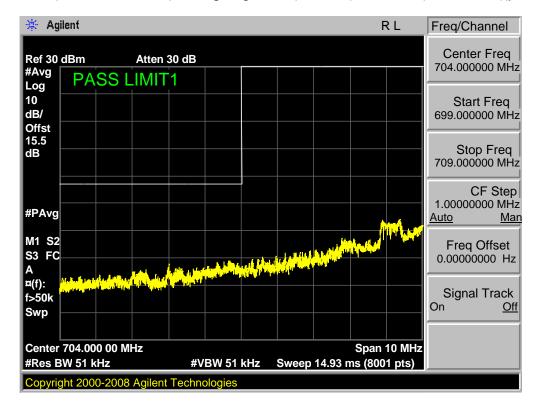
Band 17,UL Channel 23755,UL Frequency 706.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM



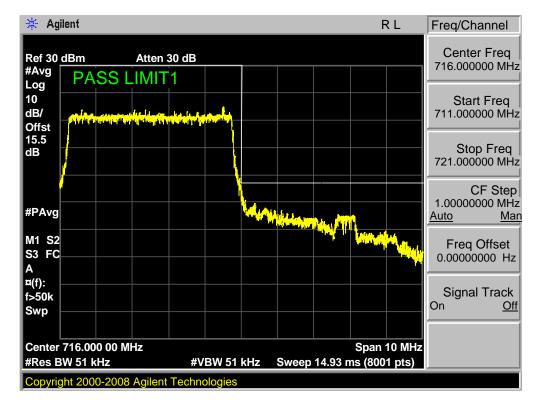


Band 17,UL Channel 23825,UL Frequency 713.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

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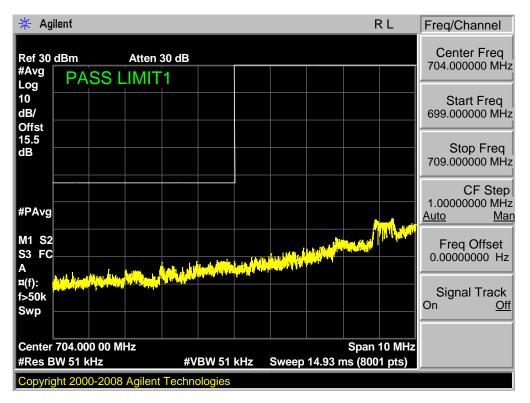


Band 17,UL Channel 23825,UL Frequency 713.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK

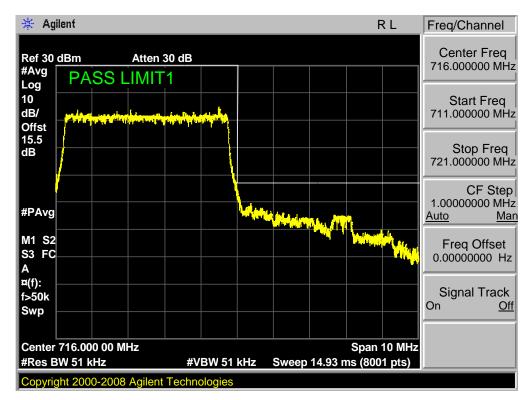




Band 17,UL Channel 23825,UL Frequency 713.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM

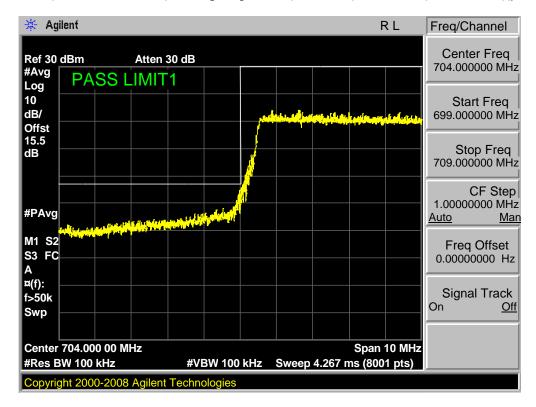


Band 17,UL Channel 23825,UL Frequency 713.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM

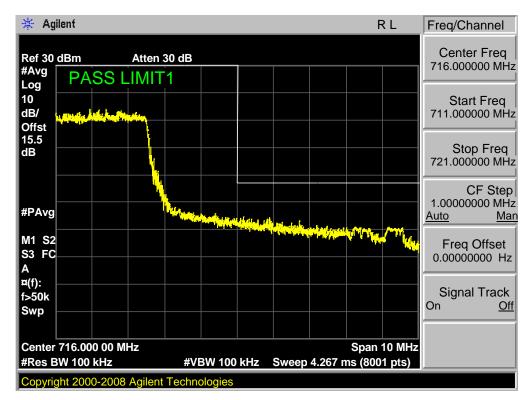




Band 17,UL Channel 23780,UL Frequency 709.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

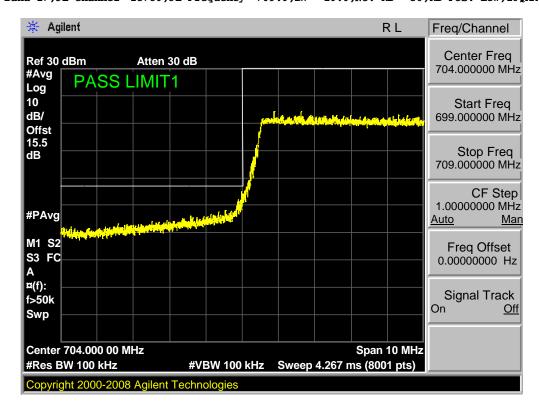


Band 17,UL Channel 23780,UL Frequency 709.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

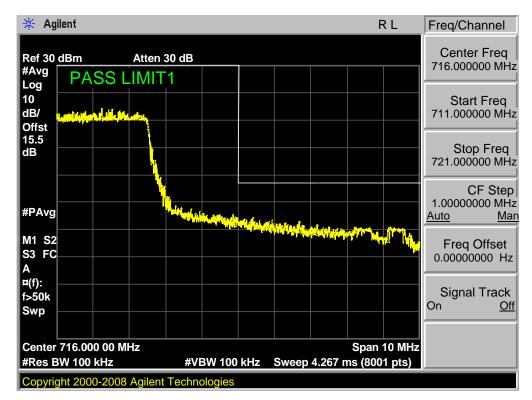




Band 17,UL Channel 23780,UL Frequency 709.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



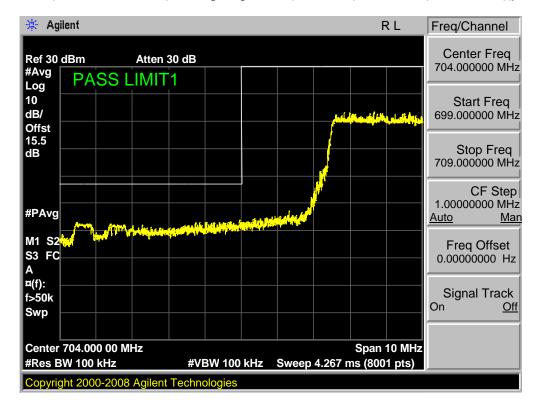
Band 17,UL Channel 23780,UL Frequency 709.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



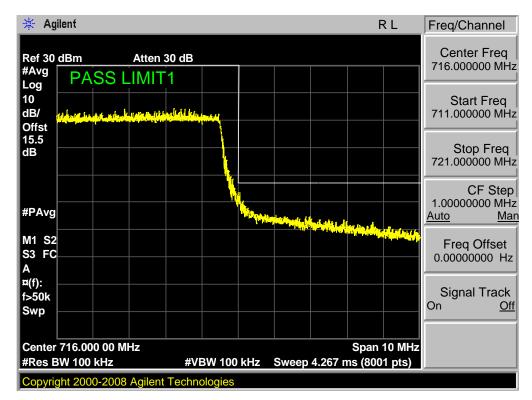


Band 17,UL Channel 23800,UL Frequency 711.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

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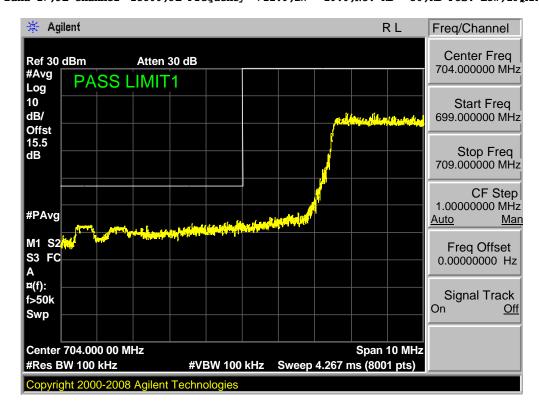


Band 17,UL Channel 23800,UL Frequency 711.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK





Band 17,UL Channel 23800,UL Frequency 711.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM



Band 17,UL Channel 23800,UL Frequency 711.0,BW 10.0,NO. RB 50,RB POS. Low,16QAM

