



REPORT No.: SZ19080292W02

TEST REPORT

APPLICANT : Green Packet Berhad, Taiwan

PRODUCT NAME : MIFI

MODEL NAME : MX-725

BRAND NAME : GreenPacket

FCC ID : W9V-MX725-GP

STANDARD(S) : 47 CFR Part 27, Subpart M

RECEIPT DATE : 2019-08-26

TEST DATE : 2019-08-28 to 2019-09-09

ISSUE DATE : 2019-09-23

Edited by: Zhao Zetian
ZhaoZetian (Rapporteur)

Approved by: Peng Huarui
Peng Huarui (Supervisor)

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MORLAB

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





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REPORT No.: SZ19080292W02

Change History		
Version	Date	Reason for change
1.0	2019-09-23	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Green Packet Berhad, Taiwan
Applicant Address:	6F, NO.21, LANE 583 RUEIGUANG RD, NEIHU DISTRICT, Taipei City, Taiwan, China
Manufacturer:	Green Packet Berhad, Taiwan
ManufacturerAddress:	6F, NO.21, LANE 583 RUEIGUANG RD, NEIHU DISTRICT, Taipei City, Taiwan, China

1.2. Equipment Under Test (EUT) Description

Product Name:	MIFI	
Serial No:	(N/A, marked #1 by test site)	
Hardware Version:	Mobile.Router.M01	
Software Version:	Mobile.Router.M01	
Modulation Type:	QPSK, 16QAM	
Operation Band:	Band 41	
	LTE Band 41	Tx: 2496MHz-2690MHz
		Rx: 2496MHz-2690MHz
	LTE Band 41	5 MHz, 10MHz, 15 MHz, 20 MHz
Antenna Type:	monopole	
Antenna Gain:	LTE Band 41	2.6 dBi
Accessory Information:	Battery	
	Brand Name:	TG
	Model No.:	DC015
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	3000mAh
	Rated Voltage:	3.80V
	Charge Limit:	4.35V

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.3. Emission Designator

LTE Band41	Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM
5	4M53G7D	4M52W7D
10	8M98G7D	8M98W7D
15	13M5G7D	13M5W7D
20	17M9G7D	17M9W7D



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24 and Part 27 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
4	47 CFR Part 27	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result
2.1046, 27.50(c)(10) 27.50(d)(4), 27.50(h)(2) 27.50(a)(3)	Transmitter Conducted Output Power and ERP/EIRP	Sept 23, 2019	Gao Mingzhou PengXuewei	PASS
2.1049	Occupied Bandwidth	Sept 06, 2019	Gao Mingzhou	PASS
2.1055, 27.54	Frequency Stability	Sept 09, 2019	Gao Mingzhou	PASS
27.50(d)(5)	Peak to Average Ratio	Sept 09, 2019	Gao Mingzhou	PASS
2.1051, 27.53(g)(h) 27.53(m)(4)(a)(4)	Conducted Spurious Emissions	Sept 09, 2019	Gao Mingzhou	PASS
2.1051, 27.53(g)(h) 27.53(m)(4)(a)(4)	Band Edge	Sept 09, 2019	Gao Mingzhou	PASS
2.1051, 27.53(g)(h) 27.53(m)(4)(a)(4)	Radiated Spurious Emissions	Sept 23, 2019	PengXuewei	PASS

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 (Oct 27, 2017) and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 26.5dB contains two parts that cable loss 16.5dB and Attenuator 10dB.



1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

2. 47 CFR Part 2, Part 22H, Part 24E and 27D&H&L&M Requirements

2.1. Transmitter Conducted Output Power And ERP/EIRP

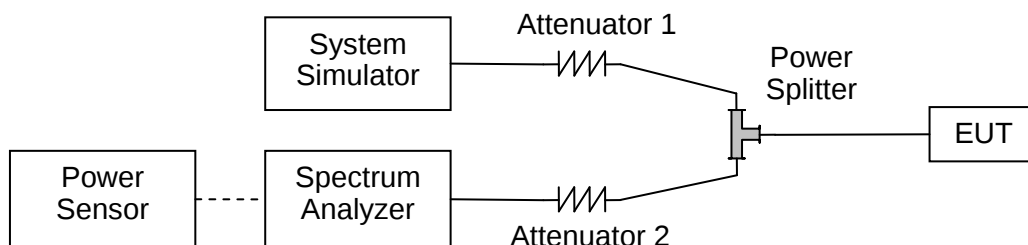
2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 27.50 (a) for LTE Band 40, fixed, mobile and portable (hand-held) stations in the 2305-2315MHz and 2350-2360MHz band are limited to 0.25 watts EIRP.

According to FCC section 27.50 (h) for LTE Band 38/41, Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

$EIRP \text{ (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$

**2.1.4. Result****Conducted Output Power:**

LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506.0	2593.0	2680.0
20	QPSK	1	0	20.21	20.32	20.32
20	QPSK	1	49	20.55	20.47	20.46
20	QPSK	1	99	20.28	20.55	20.21
20	QPSK	50	0	19.35	19.63	19.62
20	QPSK	50	24	19.65	19.65	19.53
20	QPSK	50	50	19.41	19.51	19.41
20	QPSK	100	0	19.53	19.65	19.34
20	16QAM	1	0	18.63	19.11	19.21
20	16QAM	1	49	19.30	19.49	19.37
20	16QAM	1	99	18.90	19.24	18.73
20	16QAM	50	0	18.27	18.58	18.57
20	16QAM	50	24	18.60	18.56	18.48
20	16QAM	50	50	18.36	18.67	18.36
20	16QAM	100	0	18.47	18.61	18.41



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593.0	2682.5
15	QPSK	1	0	20.10	20.57	20.39
15	QPSK	1	37	20.62	20.79	20.50
15	QPSK	1	74	20.33	20.66	20.10
15	QPSK	36	0	19.25	19.69	19.66
15	QPSK	36	20	19.58	19.68	19.54
15	QPSK	36	39	19.48	19.76	19.39
15	QPSK	75	0	19.43	19.73	19.43
15	16QAM	1	0	18.61	19.30	19.28
15	16QAM	1	37	19.15	19.29	19.18
15	16QAM	1	74	19.10	19.40	18.80
15	16QAM	36	0	18.23	18.60	18.46
15	16QAM	36	20	18.46	18.61	18.44
15	16QAM	36	39	18.48	18.69	18.29
15	16QAM	75	0	18.37	18.59	18.49



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39700	40620	41540
Frequency (MHz)				2501.0	2593.0	2685.0
10	QPSK	1	0	19.86	20.33	20.09
10	QPSK	1	25	20.49	20.76	20.41
10	QPSK	1	49	20.54	20.58	20.05
10	QPSK	25	0	19.41	19.67	19.54
10	QPSK	25	12	19.51	19.83	19.55
10	QPSK	25	25	19.57	19.73	19.38
10	QPSK	50	0	19.49	19.71	19.42
10	16QAM	1	0	18.79	19.31	19.14
10	16QAM	1	25	19.29	19.36	19.28
10	16QAM	1	49	19.22	19.39	18.92
10	16QAM	25	0	18.58	18.87	18.40
10	16QAM	25	12	18.69	18.93	18.63
10	16QAM	25	25	18.76	18.81	18.35
10	16QAM	50	0	18.32	18.57	18.47



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593.0	2687.5
5	QPSK	1	0	19.92	20.55	20.24
5	QPSK	1	12	20.32	20.63	20.26
5	QPSK	1	24	20.27	20.55	20.04
5	QPSK	12	0	19.16	19.76	19.44
5	QPSK	12	7	19.36	19.73	19.50
5	QPSK	12	13	19.37	19.68	19.38
5	QPSK	25	0	19.25	19.63	19.39
5	16QAM	1	0	18.72	19.20	18.95
5	16QAM	1	12	18.99	19.32	19.03
5	16QAM	1	24	18.97	19.15	18.73
5	16QAM	12	0	18.21	18.53	18.50
5	16QAM	12	7	18.52	18.71	18.56
5	16QAM	12	13	18.41	18.78	18.45
5	16QAM	25	0	18.55	18.78	18.49

**Effective Radiated Power and Effective Isotropic Radiated Power:**

LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39750		40620		41490	
Frequency (MHz)				2506.0		2593.0		2680.0	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	22.81	0.191	22.92	0.196	22.92	0.196
20	QPSK	1	49	23.15	0.207	23.07	0.203	23.06	0.202
20	QPSK	1	99	22.88	0.194	23.15	0.207	22.81	0.191
20	QPSK	50	0	21.95	0.157	22.23	0.167	22.22	0.167
20	QPSK	50	24	22.25	0.168	22.25	0.168	22.13	0.163
20	QPSK	50	50	22.01	0.159	22.11	0.163	22.01	0.159
20	QPSK	100	0	22.13	0.163	22.25	0.168	21.94	0.156
20	16QAM	1	0	21.23	0.133	21.71	0.148	21.81	0.152
20	16QAM	1	49	21.9	0.155	22.09	0.162	21.97	0.157
20	16QAM	1	99	21.5	0.141	21.84	0.153	21.33	0.136
20	16QAM	50	0	20.87	0.122	21.18	0.131	21.17	0.131
20	16QAM	50	24	21.2	0.132	21.16	0.131	21.08	0.128
20	16QAM	50	50	20.96	0.125	21.27	0.134	20.96	0.125
20	16QAM	100	0	21.07	0.128	21.21	0.132	21.01	0.126



LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39725		40620		41515	
Frequency (MHz)				2503.5		2593.0		2682.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	22.7	0.186	23.17	0.207	22.99	0.199
15	QPSK	1	37	23.22	0.210	23.39	0.218	23.1	0.204
15	QPSK	1	74	22.93	0.196	23.26	0.212	22.7	0.186
15	QPSK	36	0	21.85	0.153	22.29	0.169	22.26	0.168
15	QPSK	36	20	22.18	0.165	22.28	0.169	22.14	0.164
15	QPSK	36	39	22.08	0.161	22.36	0.172	21.99	0.158
15	QPSK	75	0	22.03	0.160	22.33	0.171	22.03	0.160
15	16QAM	1	0	21.21	0.132	21.9	0.155	21.88	0.154
15	16QAM	1	37	21.75	0.150	21.89	0.155	21.78	0.151
15	16QAM	1	74	21.7	0.148	22	0.158	21.4	0.138
15	16QAM	36	0	20.83	0.121	21.2	0.132	21.06	0.128
15	16QAM	36	20	21.06	0.128	21.21	0.132	21.04	0.127
15	16QAM	36	39	21.08	0.128	21.29	0.135	20.89	0.123
15	16QAM	75	0	20.97	0.125	21.19	0.132	21.09	0.129



LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39700		40620		41540	
Frequency (MHz)				2501.0		2593.0		2685.0	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	22.46	0.176	22.93	0.196	22.69	0.186
10	QPSK	1	25	23.09	0.204	23.36	0.217	23.01	0.200
10	QPSK	1	49	23.14	0.206	23.18	0.208	22.65	0.184
10	QPSK	25	0	22.01	0.159	22.27	0.169	22.14	0.164
10	QPSK	25	12	22.11	0.163	22.43	0.175	22.15	0.164
10	QPSK	25	25	22.17	0.165	22.33	0.171	21.98	0.158
10	QPSK	50	0	22.09	0.162	22.31	0.170	22.02	0.159
10	16QAM	1	0	21.39	0.138	21.91	0.155	21.74	0.149
10	16QAM	1	25	21.89	0.155	21.96	0.157	21.88	0.154
10	16QAM	1	49	21.82	0.152	21.99	0.158	21.52	0.142
10	16QAM	25	0	21.18	0.131	21.47	0.140	21	0.126
10	16QAM	25	12	21.29	0.135	21.53	0.142	21.23	0.133
10	16QAM	25	25	21.36	0.137	21.41	0.138	20.95	0.124
10	16QAM	50	0	20.92	0.124	21.17	0.131	21.07	0.128



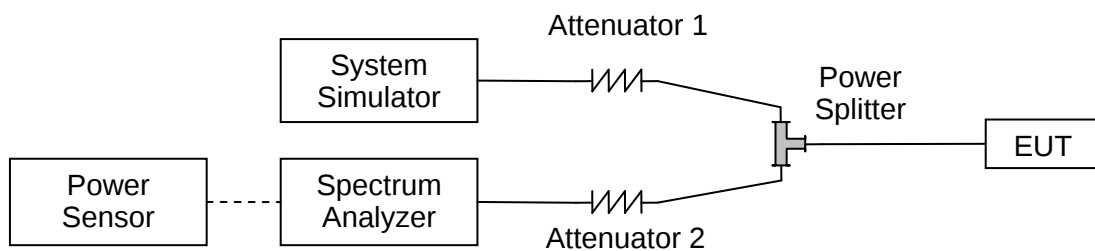
LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39675		40620		41565	
Frequency (MHz)				2498.5		2593.0		2687.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	22.52	0.179	23.15	0.207	22.84	0.192
5	QPSK	1	12	22.92	0.196	23.23	0.210	22.86	0.193
5	QPSK	1	24	22.87	0.194	23.15	0.207	22.64	0.184
5	QPSK	12	0	21.76	0.150	22.36	0.172	22.04	0.160
5	QPSK	12	7	21.96	0.157	22.33	0.171	22.1	0.162
5	QPSK	12	13	21.97	0.157	22.28	0.169	21.98	0.158
5	QPSK	25	0	21.85	0.153	22.23	0.167	21.99	0.158
5	16QAM	1	0	21.32	0.136	21.80	0.151	21.55	0.143
5	16QAM	1	12	21.59	0.144	21.92	0.156	21.63	0.146
5	16QAM	1	24	21.57	0.144	21.75	0.150	21.33	0.136
5	16QAM	12	0	20.81	0.121	21.13	0.130	21.10	0.129
5	16QAM	12	7	21.12	0.129	21.31	0.135	21.16	0.131
5	16QAM	12	13	21.01	0.126	21.38	0.137	21.05	0.127
5	16QAM	25	0	21.15	0.130	21.38	0.137	21.09	0.129

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

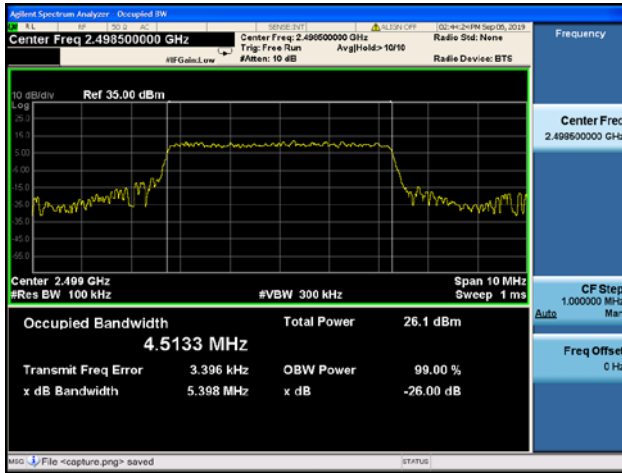
**2.2.4. Test Result**

LTE Band 41							
BW (MHz)	Modulation	Low CH		Mid CH		High CH	
		OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)
5	QPSK	4.51	5.4	4.52	5.41	4.53	5.54
	16QAM	4.51	5.45	4.51	5.6	4.52	5.57
10	QPSK	8.95	10.3	8.97	10.64	8.98	10.49
	16QAM	8.96	10.37	8.98	10.37	8.97	10.39
15	QPSK	13.44	19.9	13.48	20.71	13.47	20.31
	16QAM	13.5	20.21	13.5	23.02	13.48	22.27
20	QPSK	17.92	20.45	17.9	19.77	17.92	19.99
	16QAM	17.94	27.5	17.89	28.6	17.94	28.77

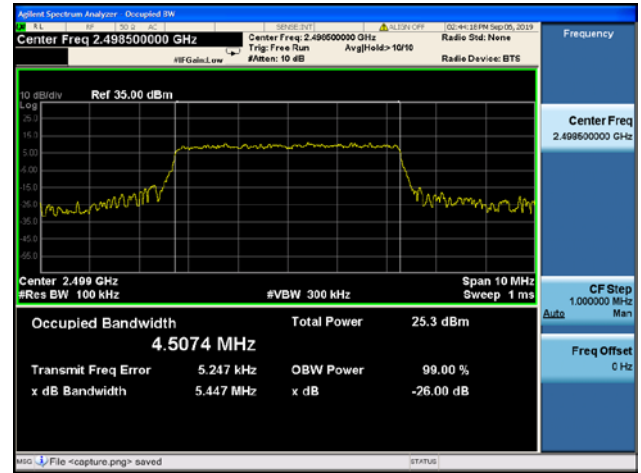


LTE Band 41 99% & 26dB Bandwidth

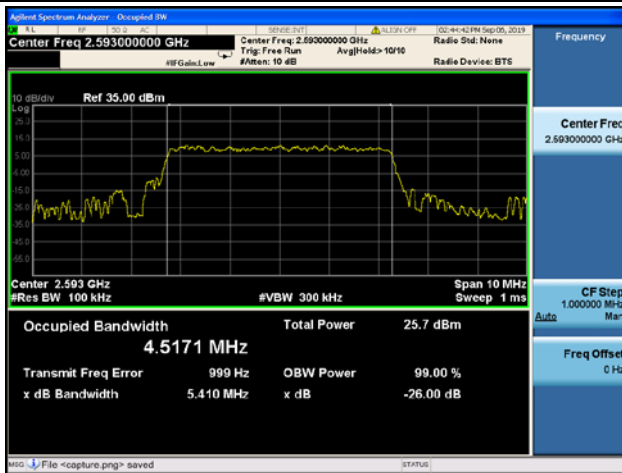
5MHz/QPSK / LCH



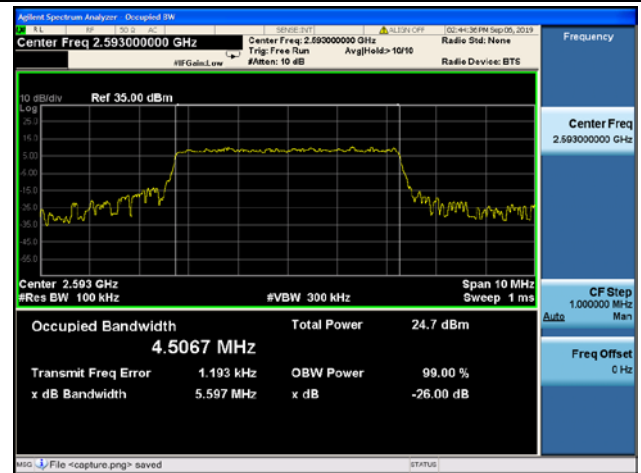
5MHz/16QAM / LCH



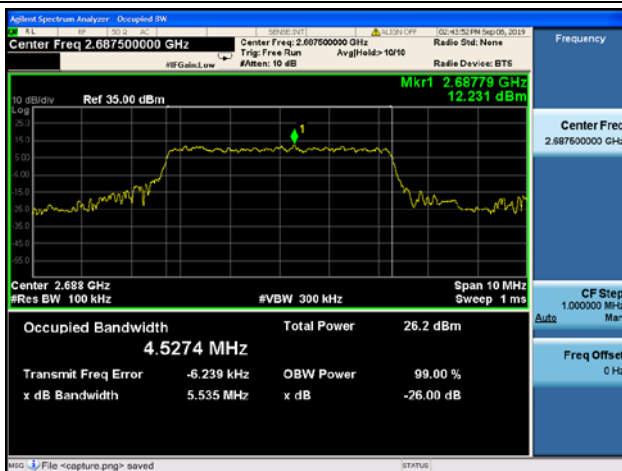
5MHz/QPSK / MCH



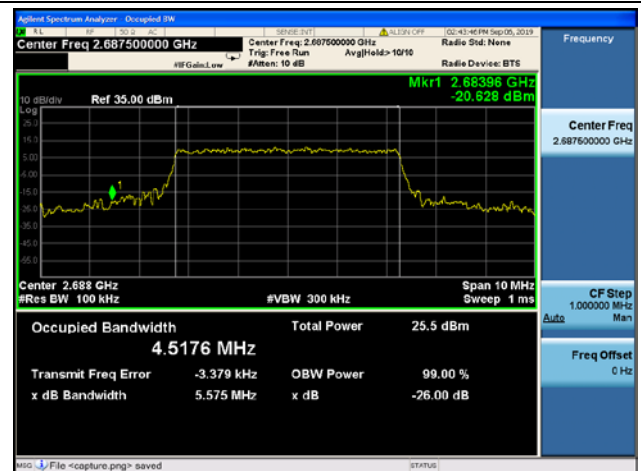
5MHz/ 16QAM / MCH



5MHz/ QPSK / HCH



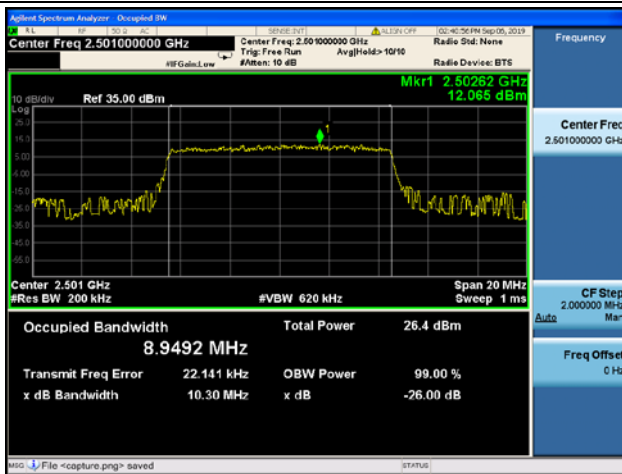
5MHz/ 16QAM / HCH



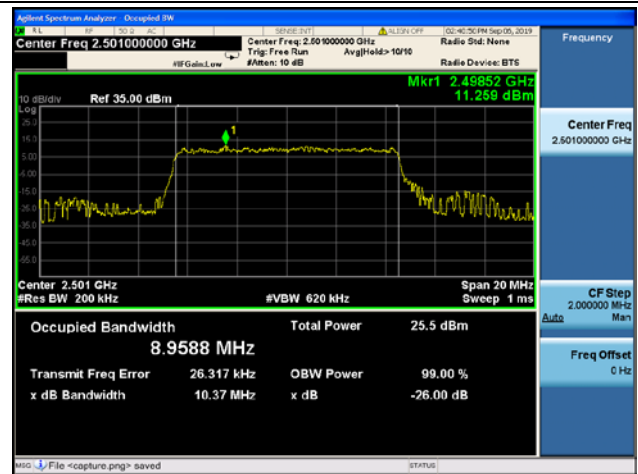


LTE Band 41 99% & 26dB Bandwidth

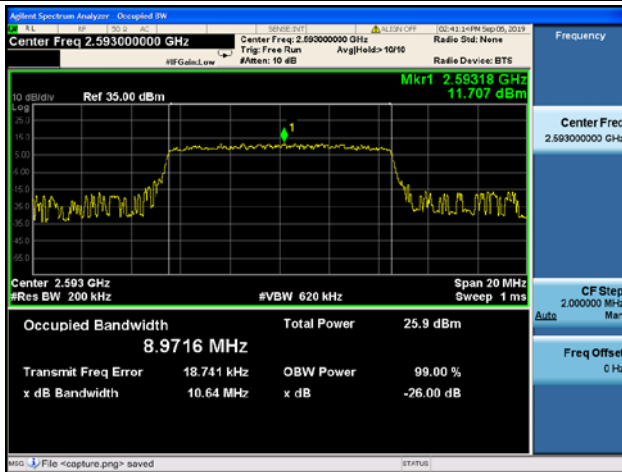
10MHz/QPSK / LCH



10MHz/16QAM / LCH



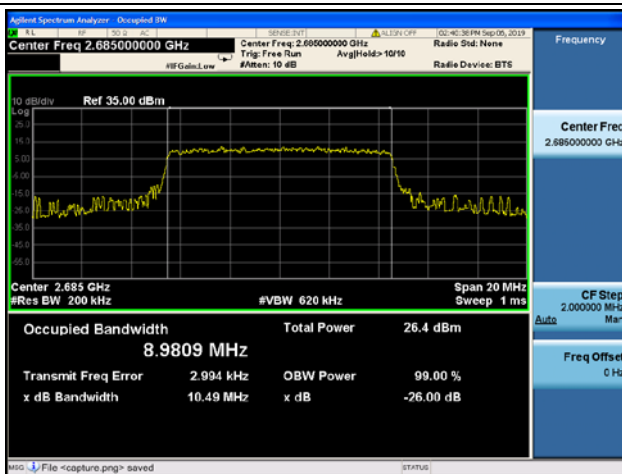
10MHz/QPSK / MCH



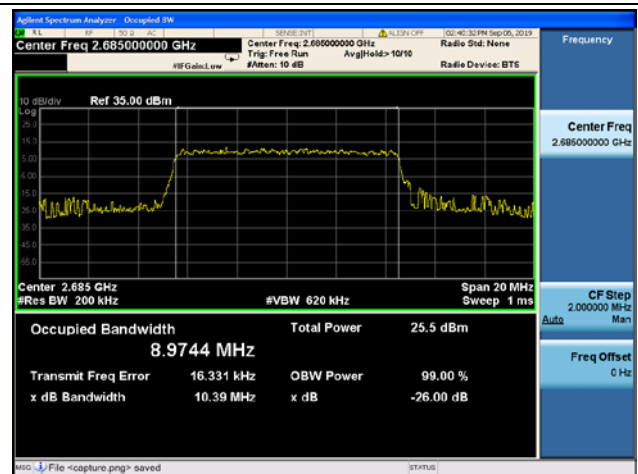
10MHz/ 16QAM / MCH



10MHz/ QPSK / HCH



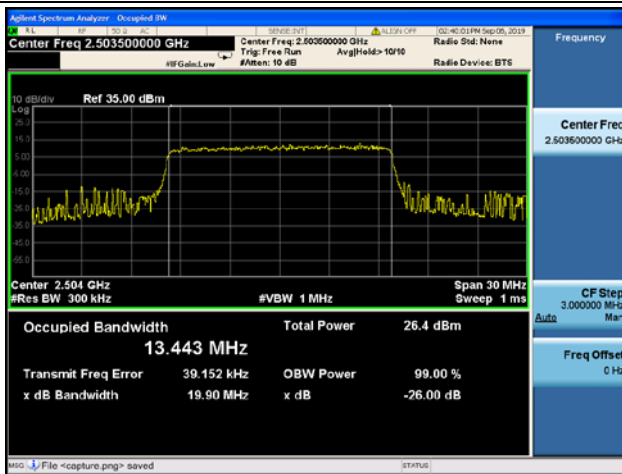
10MHz/ 16QAM / HCH



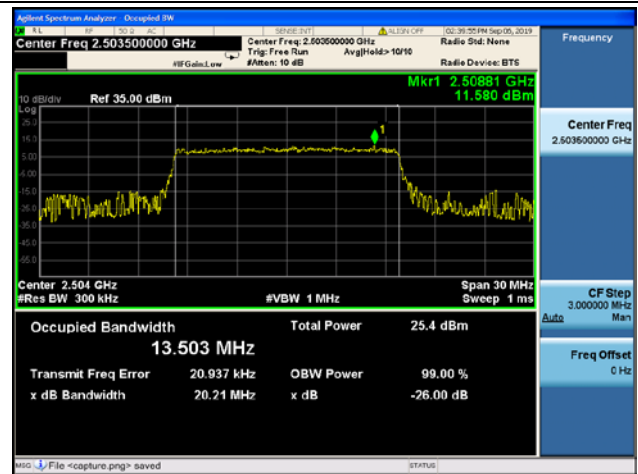


LTE Band 41 99% & 26dB Bandwidth

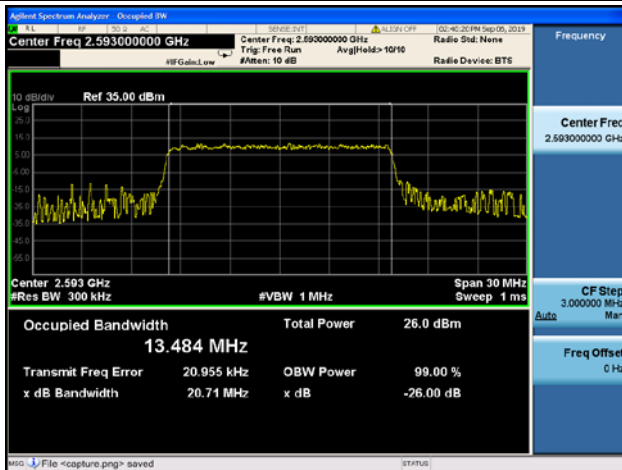
15MHz/QPSK / LCH



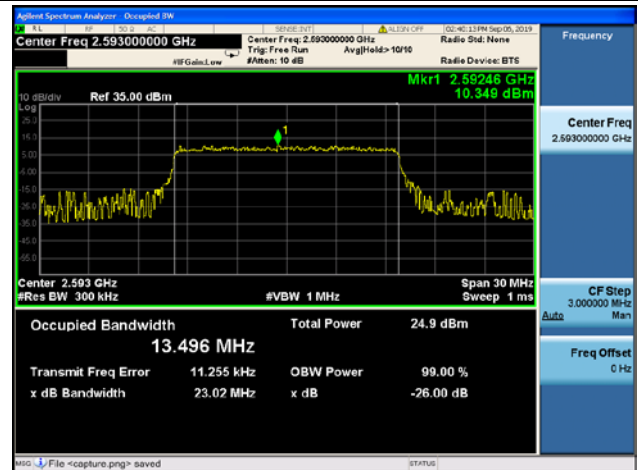
15MHz/16QAM / LCH



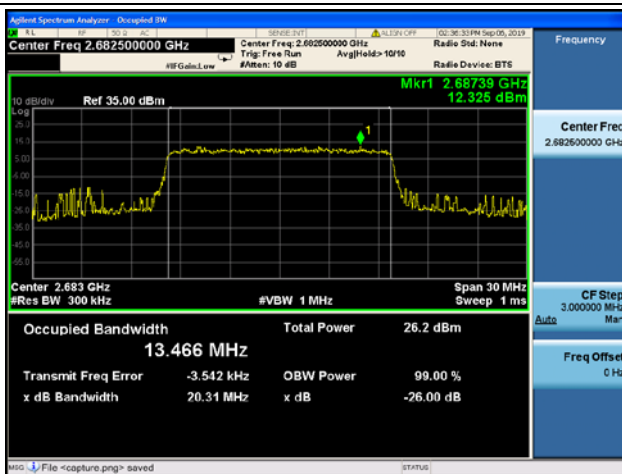
15MHz/QPSK / MCH



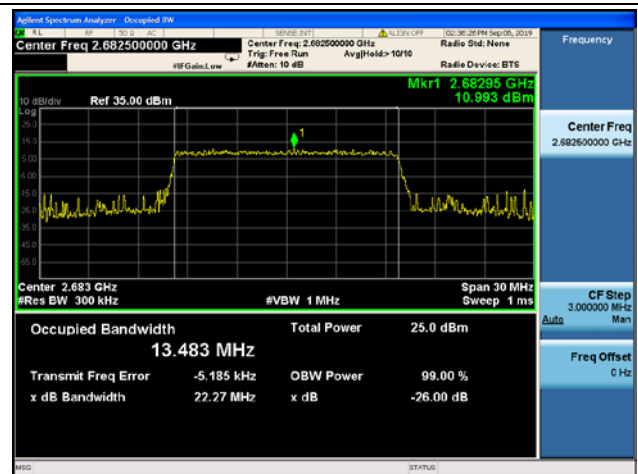
15MHz/ 16QAM / MCH



15MHz/ QPSK / HCH



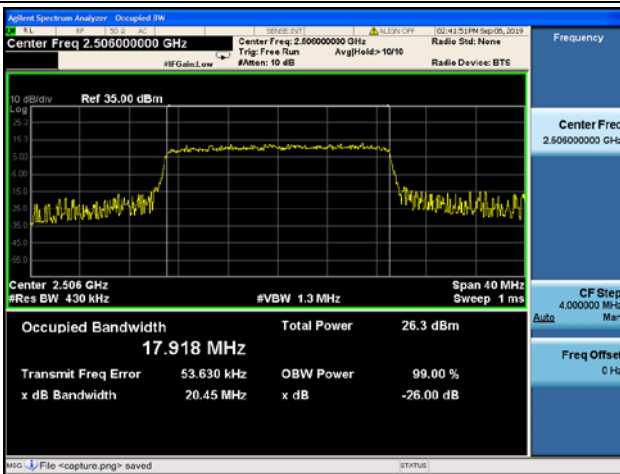
15MHz/ 16QAM / HCH



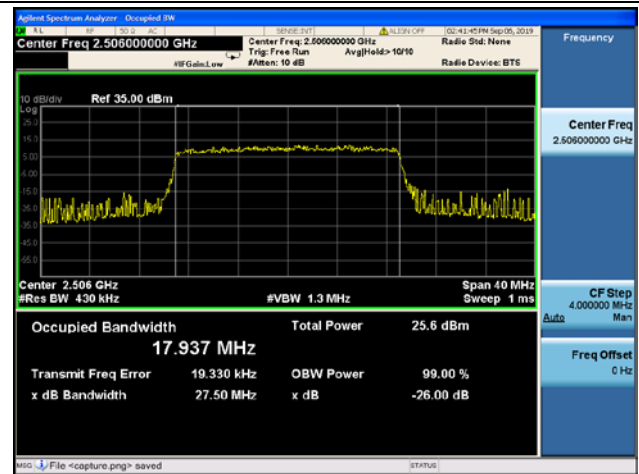


LTE Band 41 99% & 26dB Bandwidth

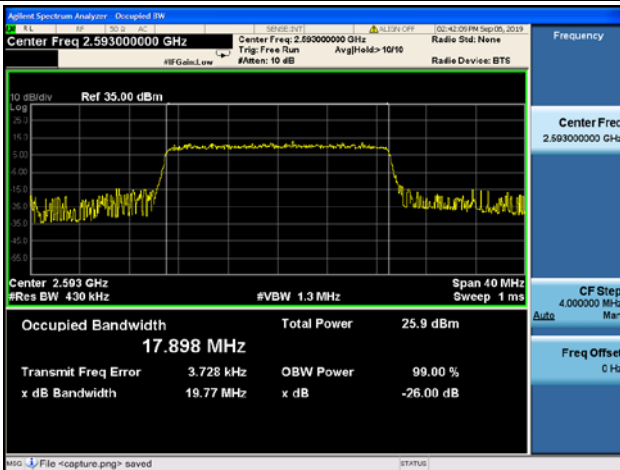
20MHz/QPSK / LCH



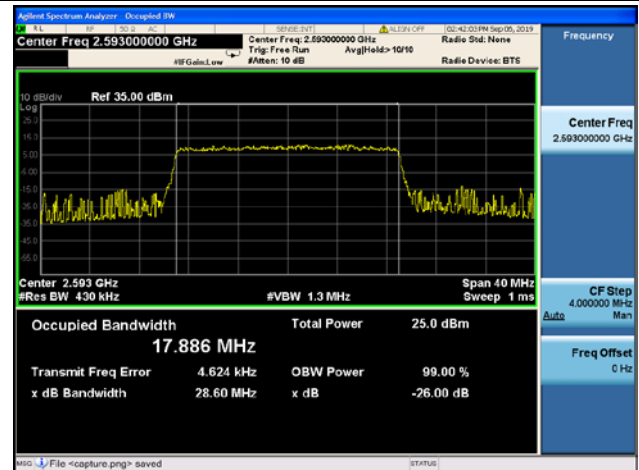
20MHz/16QAM / LCH



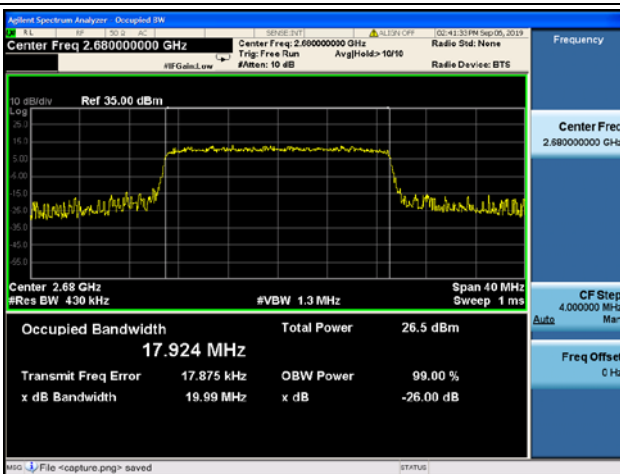
20MHz/QPSK / MCH



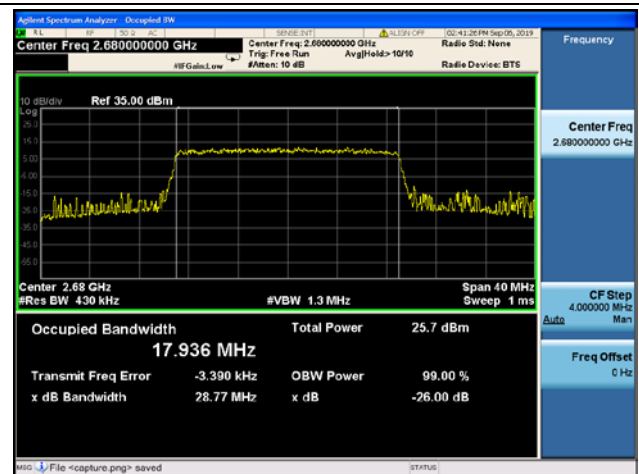
20MHz/ 16QAM / MCH



20MHz/ QPSK / HCH



20MHz/ 16QAM / HCH



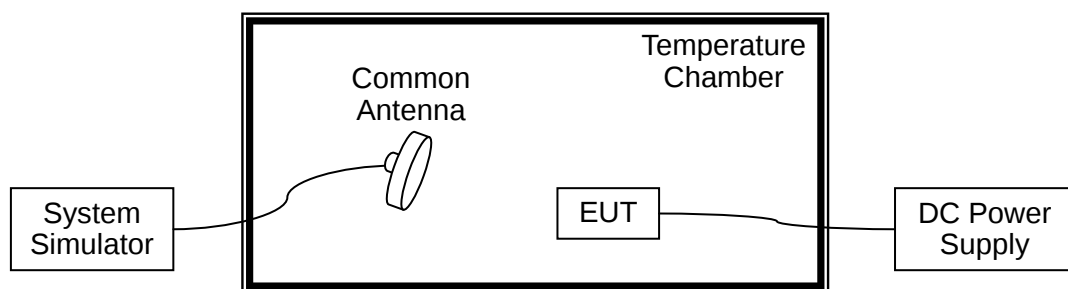
2.3. Frequency Stability

2.3.1. Requirement

According to FCC section 2.1055 & 27.54&24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -10°C to +45°C at intervals of not more than 10°C.
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.8VDC, 4.35VDC and 3.5VDC, which are specified by the applicant; the normal temperature here used is 20°C.



LTE Band 41, QPSK, Channel 40620, Frequency 2593MHz Limit =Within Authorized Band					
Voltage(%)	Power(VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.80	+20 (Ref)	63	0.024	PASS
100		-10	-27	-0.010	
100		0	15	0.006	
100		+10	-46	-0.018	
100		+20	-75	-0.029	
100		+30	64	0.025	
100		+40	75	0.029	
115	4.35	+20	62	0.024	
85	3.50	+20	-73	-0.028	

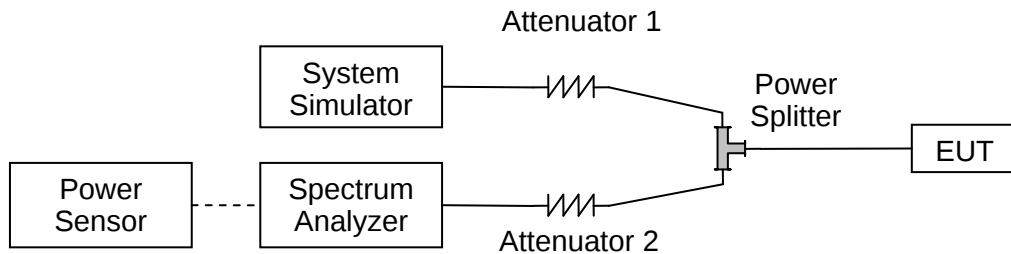
2.4. Peak to Average Radio

2.4.1. Requirement

According to FCC section 24.232(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2. Test Description

A. Test Set:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.4.3. Test procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

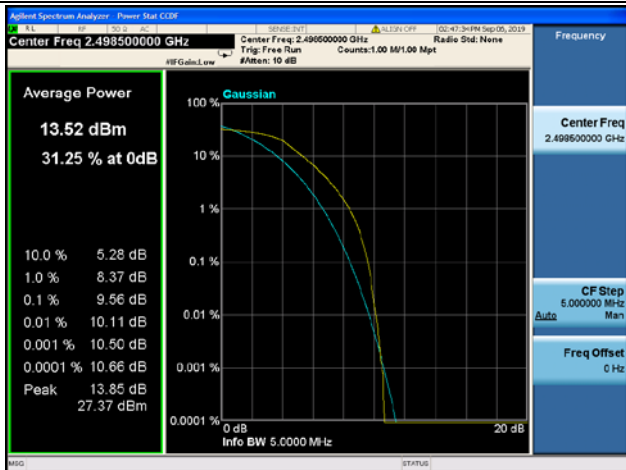
Record the maximum PAPR level associated with a probability of 0.1%.



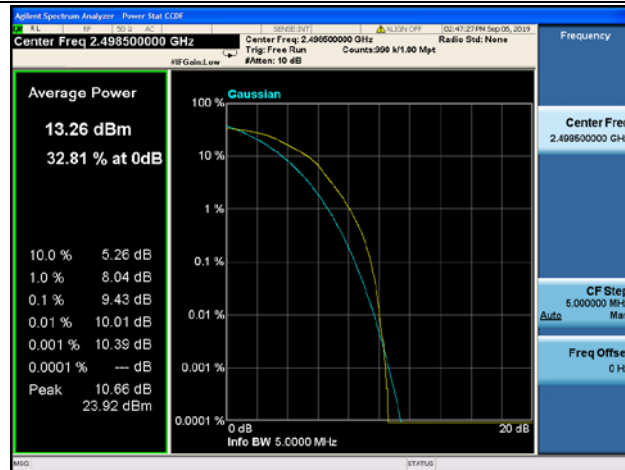
LTE Band 41						
BW (MHz)	Modulation	Low CH	Mid CH	High CH	Limit (dB)	Verdict
5	QPSK	9.56	8.52	9.22	<=13	PASS
	16QAM	9.47	9.93	9.66	<=13	PASS
10	QPSK	8.5	9.03	9.00	<=13	PASS
	16QAM	9.88	9.69	9.44	<=13	PASS
15	QPSK	9.74	7.69	8.22	<=13	PASS
	16QAM	10.51	10.31	8.98	<=13	PASS
20	QPSK	8.51	8.72	9.28	<=13	PASS
	16QAM	10.73	10.88	9.71	<=13	PASS

LTE Band 41 Peak-to-Average Ratio

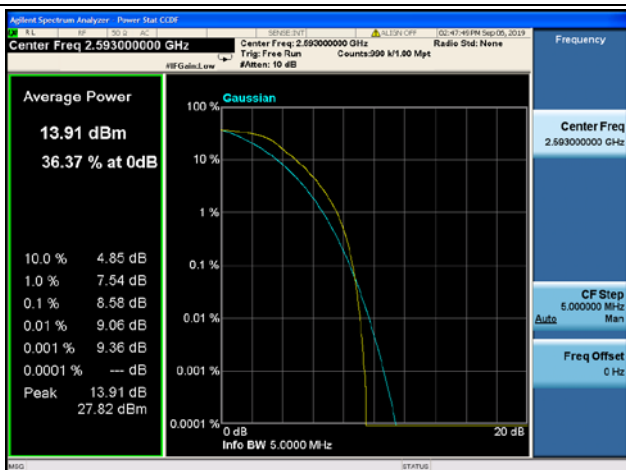
5MHz/QPSK / LCH



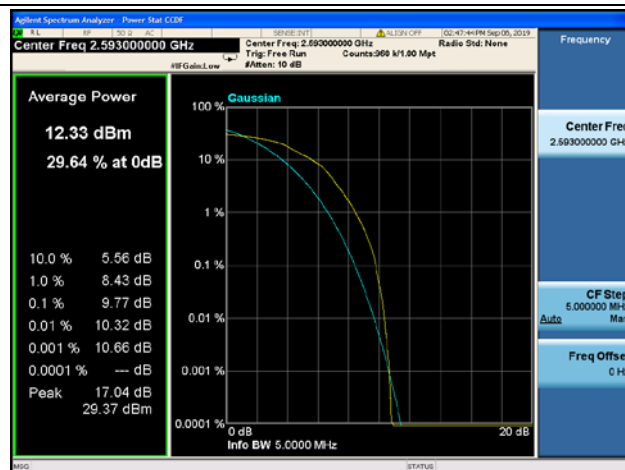
5MHz/16QAM / LCH



5MHz/ QPSK / MCH



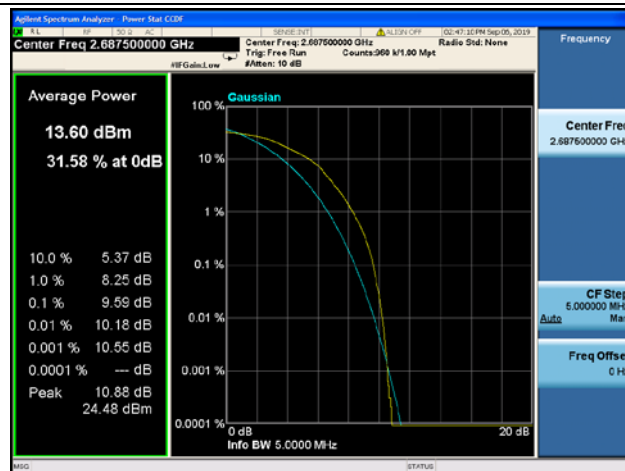
5MHz/16QAM / MCH



5MHz/ QPSK / HCH



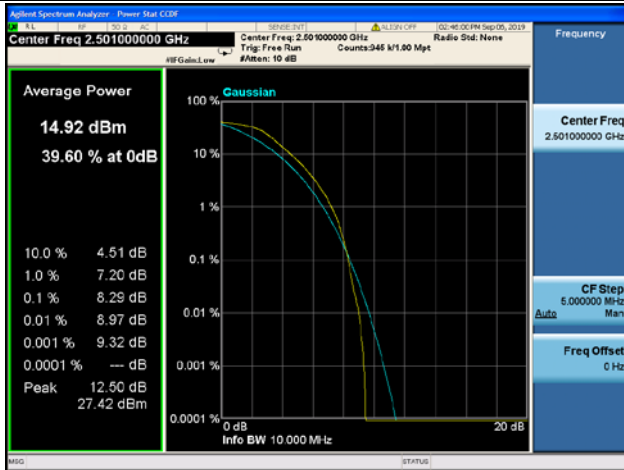
5MHz/16QAM / HCH





LTE Band 41 Peak-to-Average Ratio

10MHz/QPSK / LCH



10MHz/16QAM / LCH



10MHz/ QPSK / MCH



10MHz/16QAM / MCH



10MHz/ QPSK / HCH



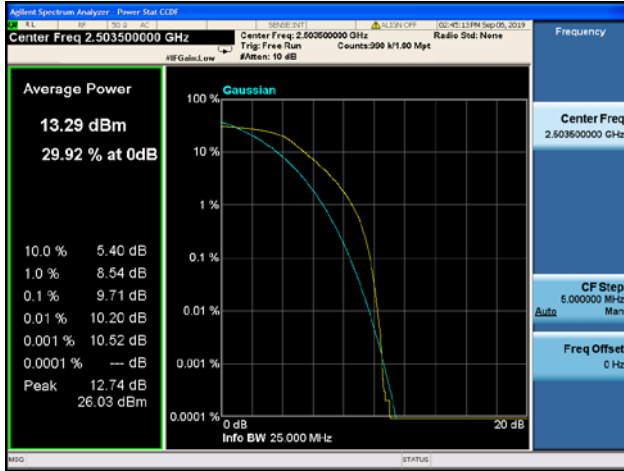
10MHz/16QAM / HCH



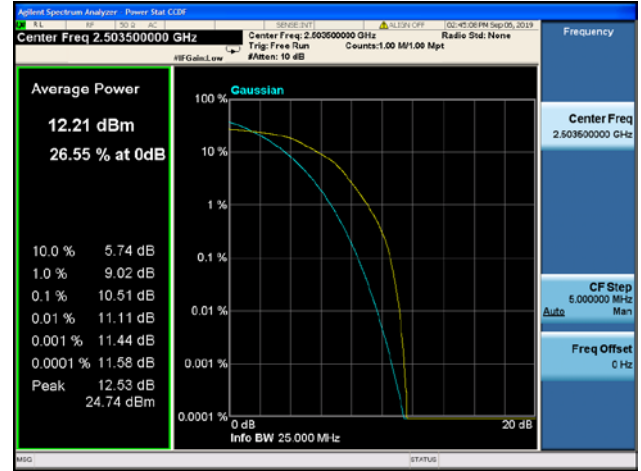


LTE Band 41 Peak-to-Average Ratio

15MHz/QPSK / LCH



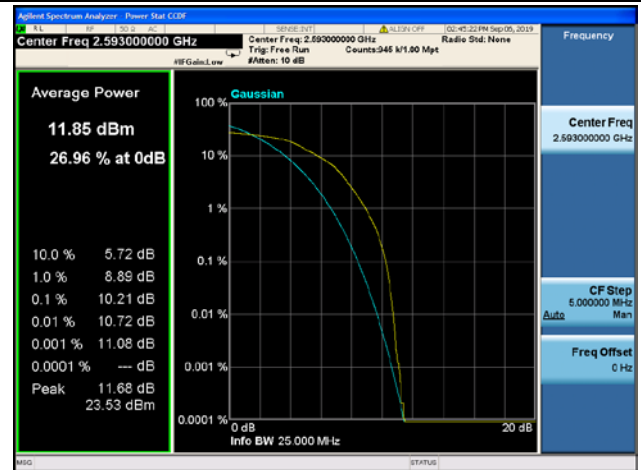
15MHz/16QAM / LCH

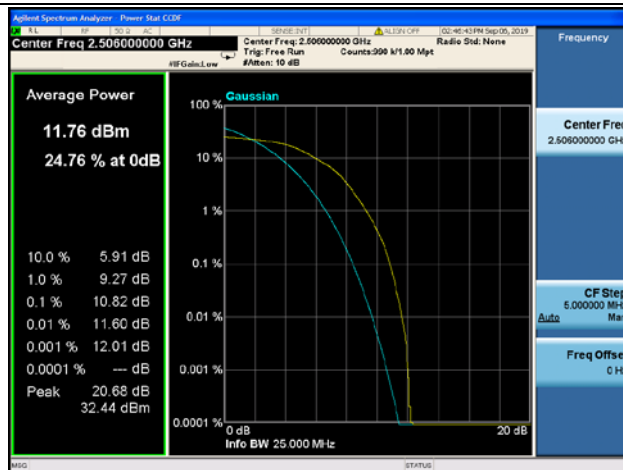
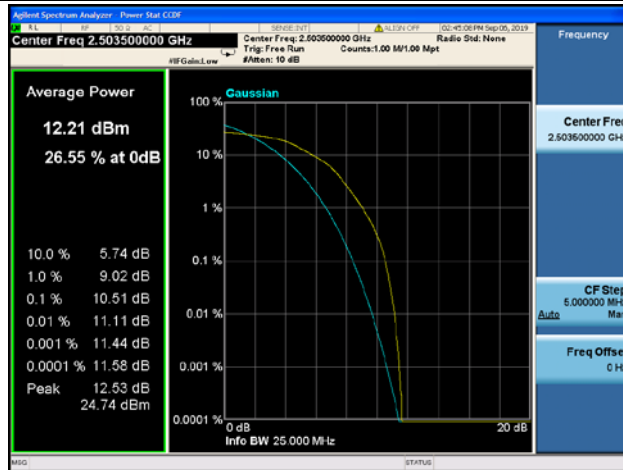


15MHz/ QPSK / MCH



15MHz/16QAM / MCH

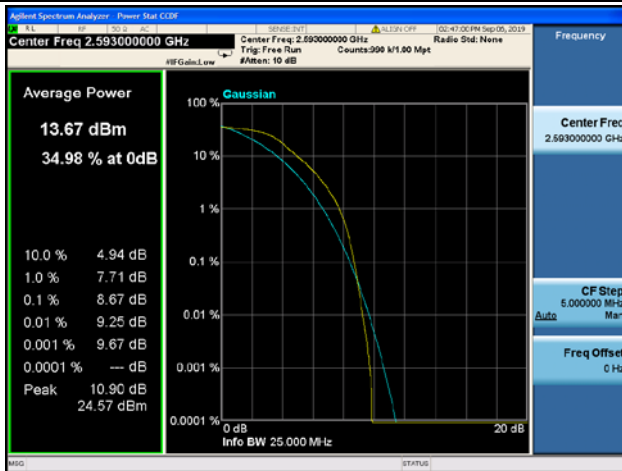






LTE Band 41 Peak-to-Average Radio

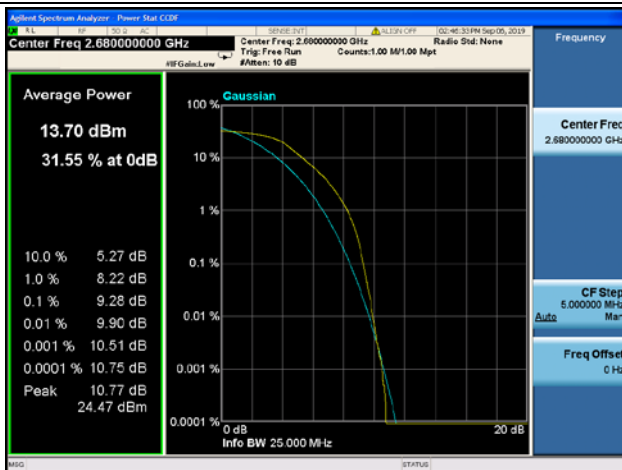
20MHz/ QPSK / MCH



20MHz/16QAM / MCH



20MHz/ QPSK / HCH



20MHz/16QAM / HCH



2.5. Conducted Spurious Emissions

2.5.1. Requirement

According to FCC section 2.1051, 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. This calculated to be -13dBm.

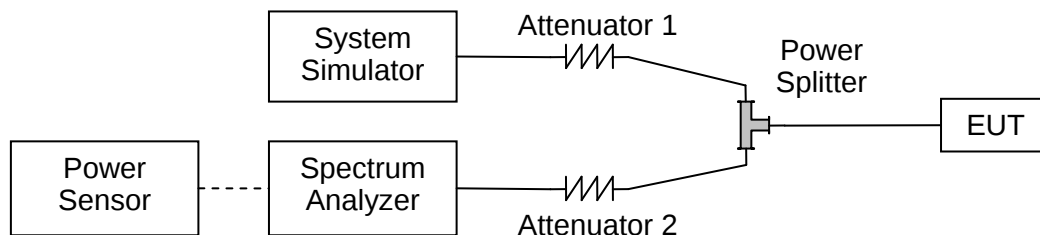
Additional requirement for LTE Band 7/38/41:

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 $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

Additional requirement for LTE Band 30/40:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log(P)$ dB. This calculated to be -40dBm.

2.5.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.5.3. Test procedure

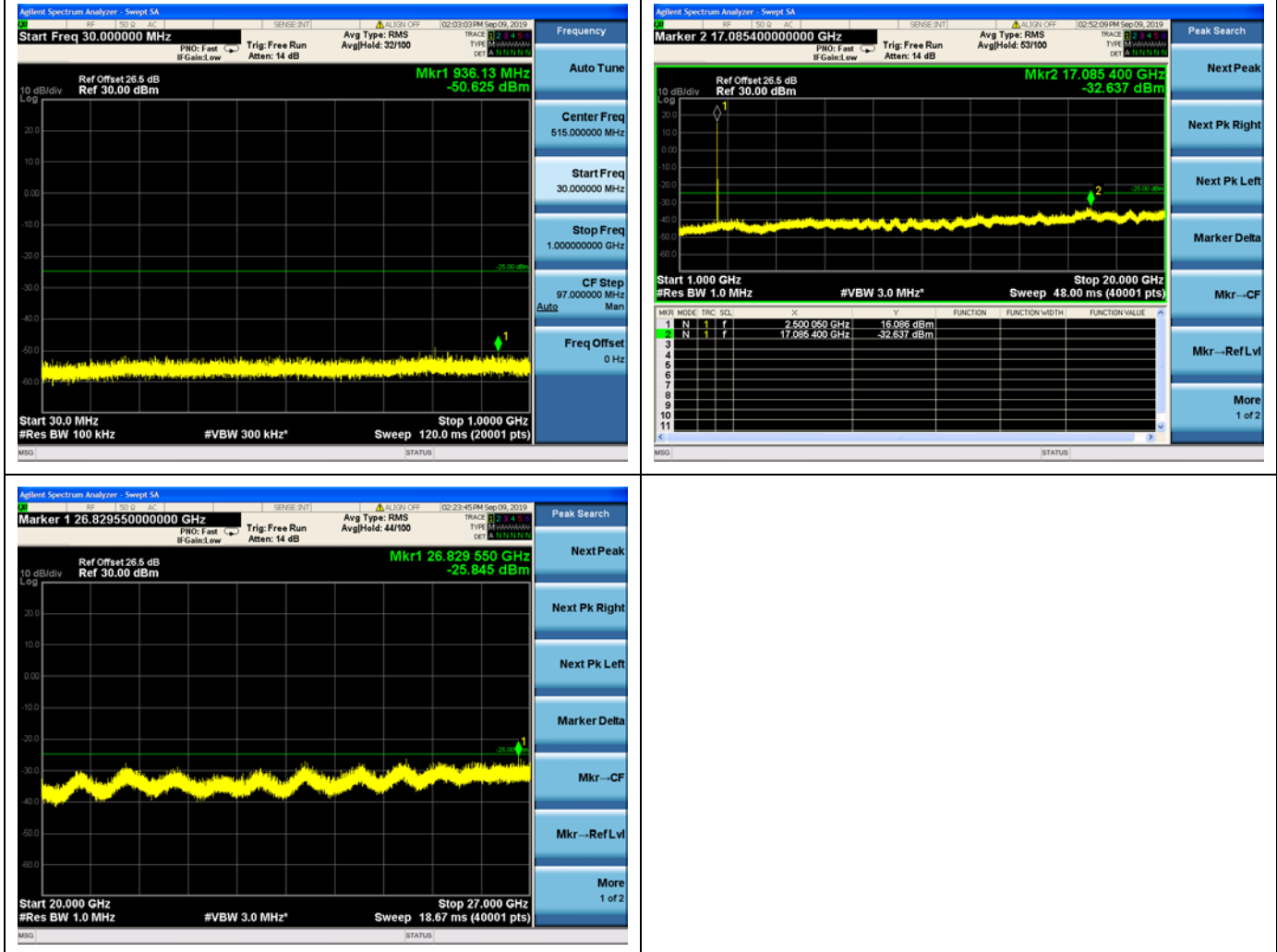
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.5.4. Test Result



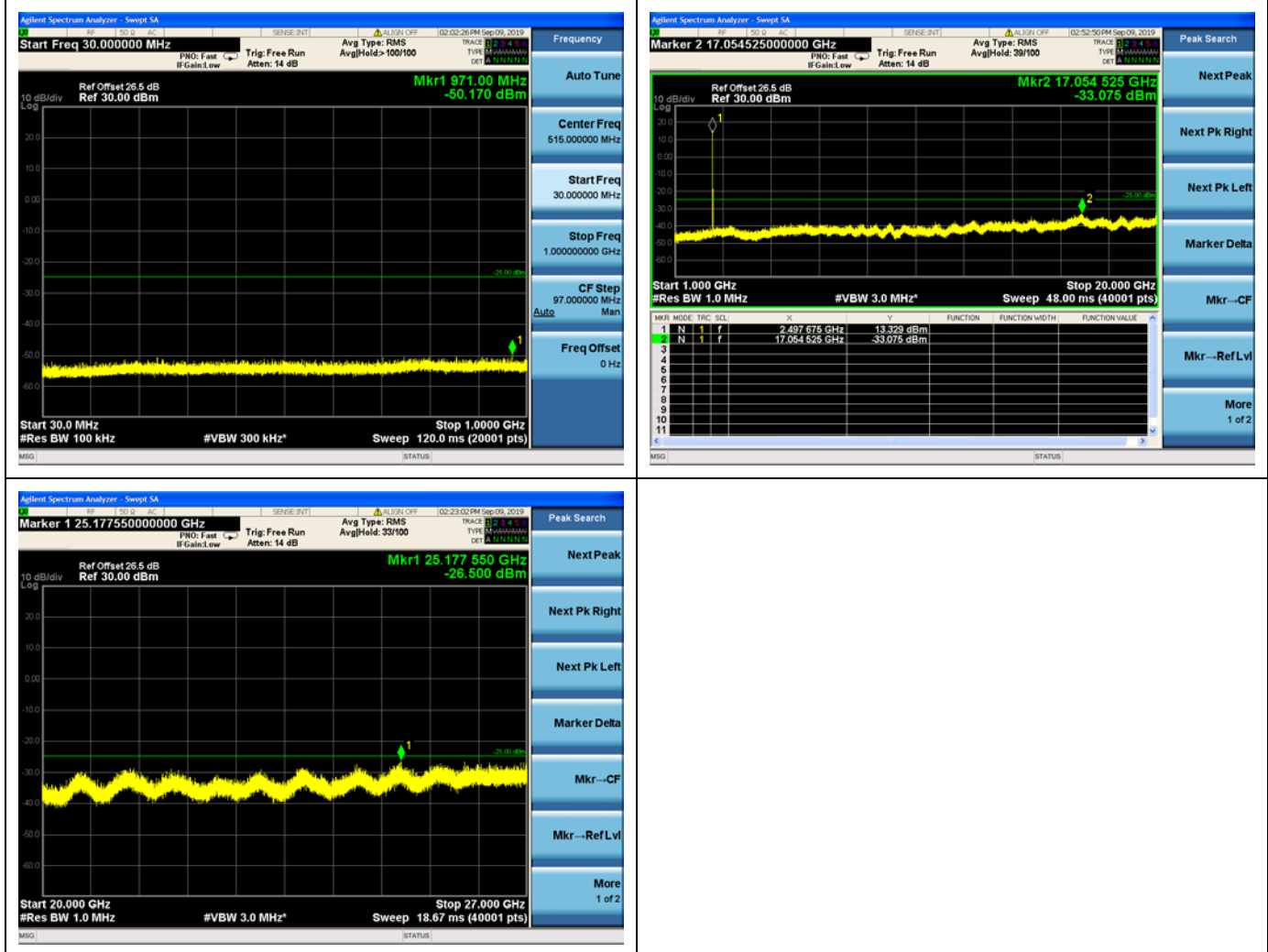
LTE Band 41 CSE

5MHz/QPSK /Low CH





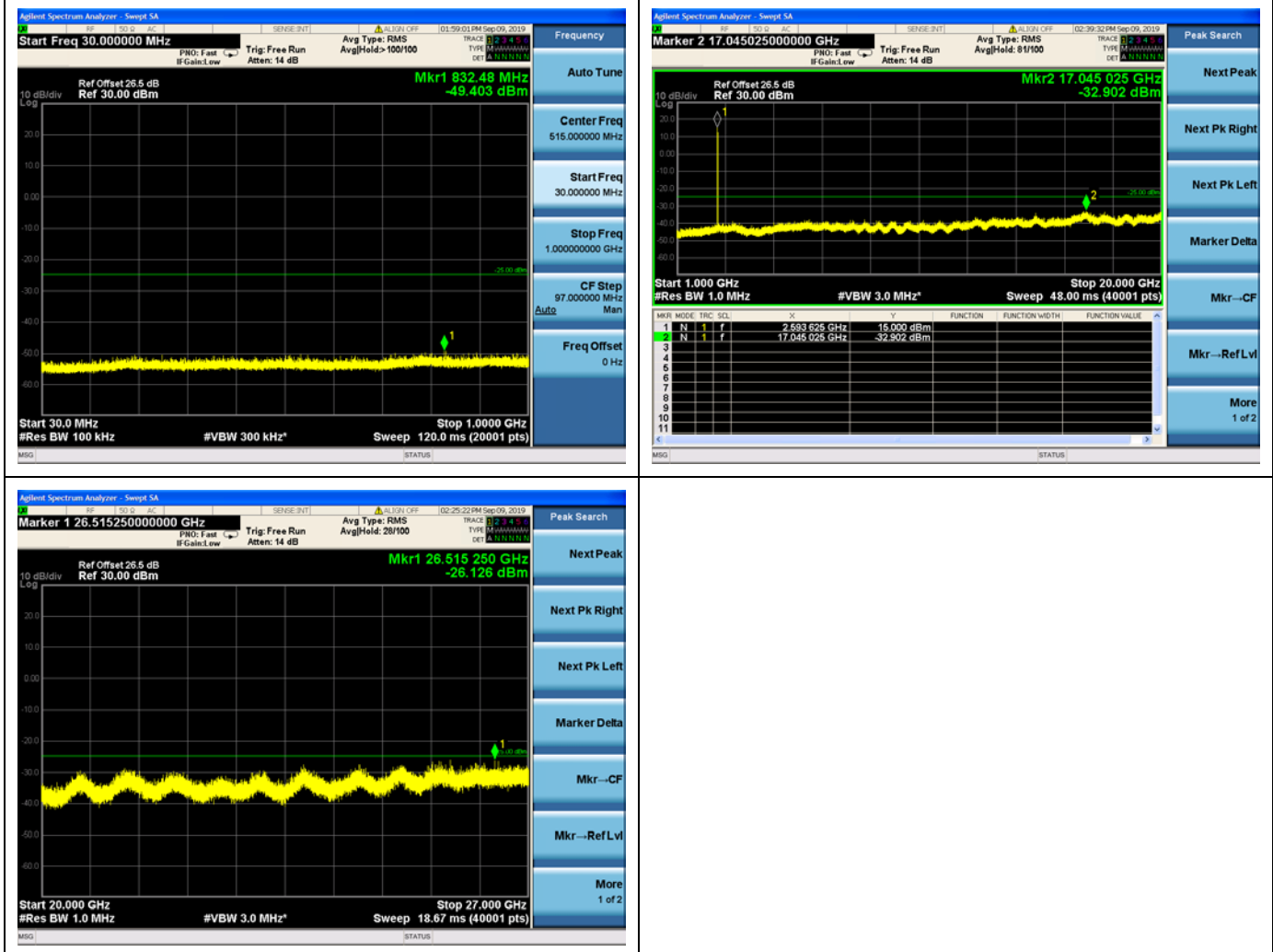
5MHz/16QAM/Low CH





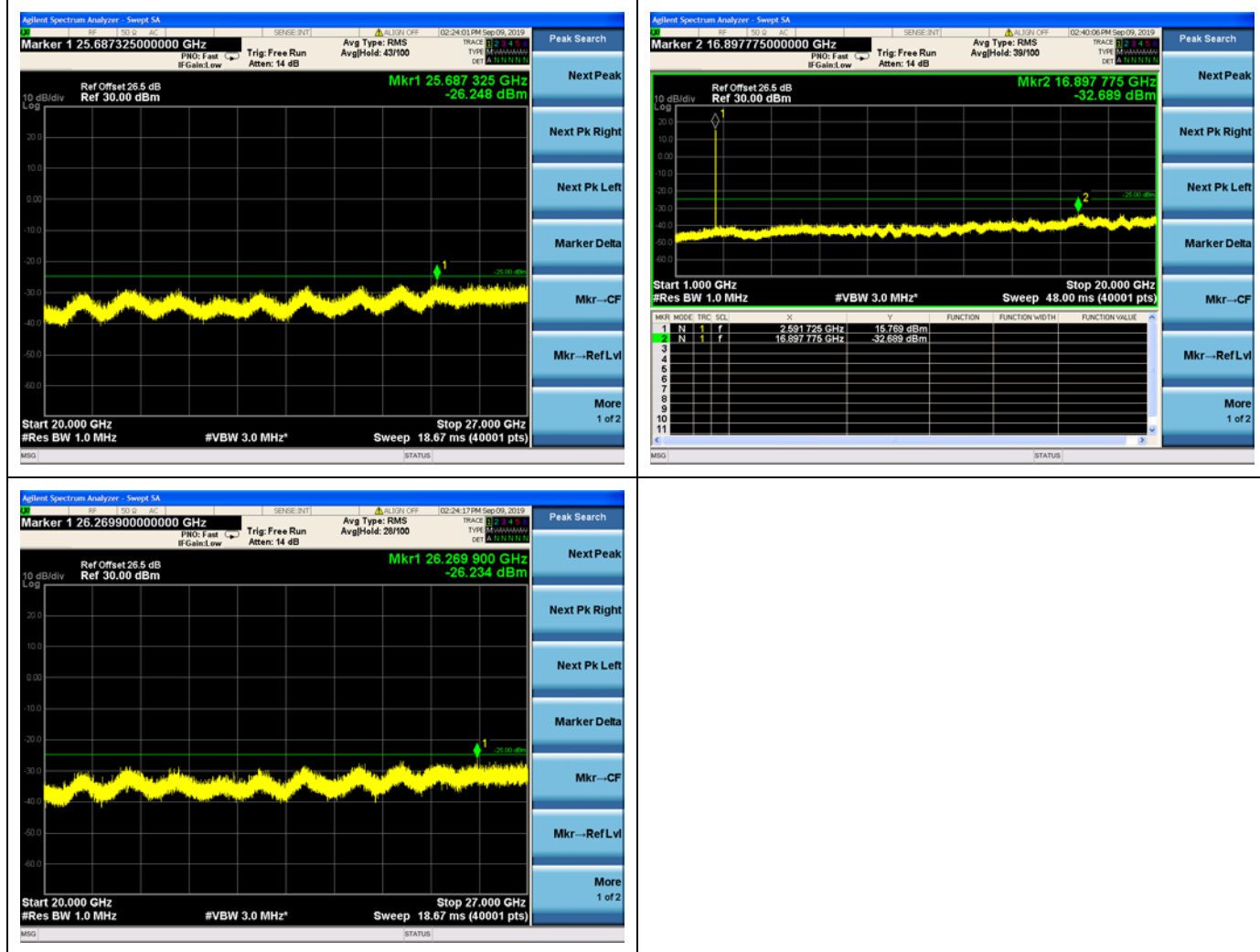
LTE Band 41 CSE

5MHz/QPSK /Mid CH





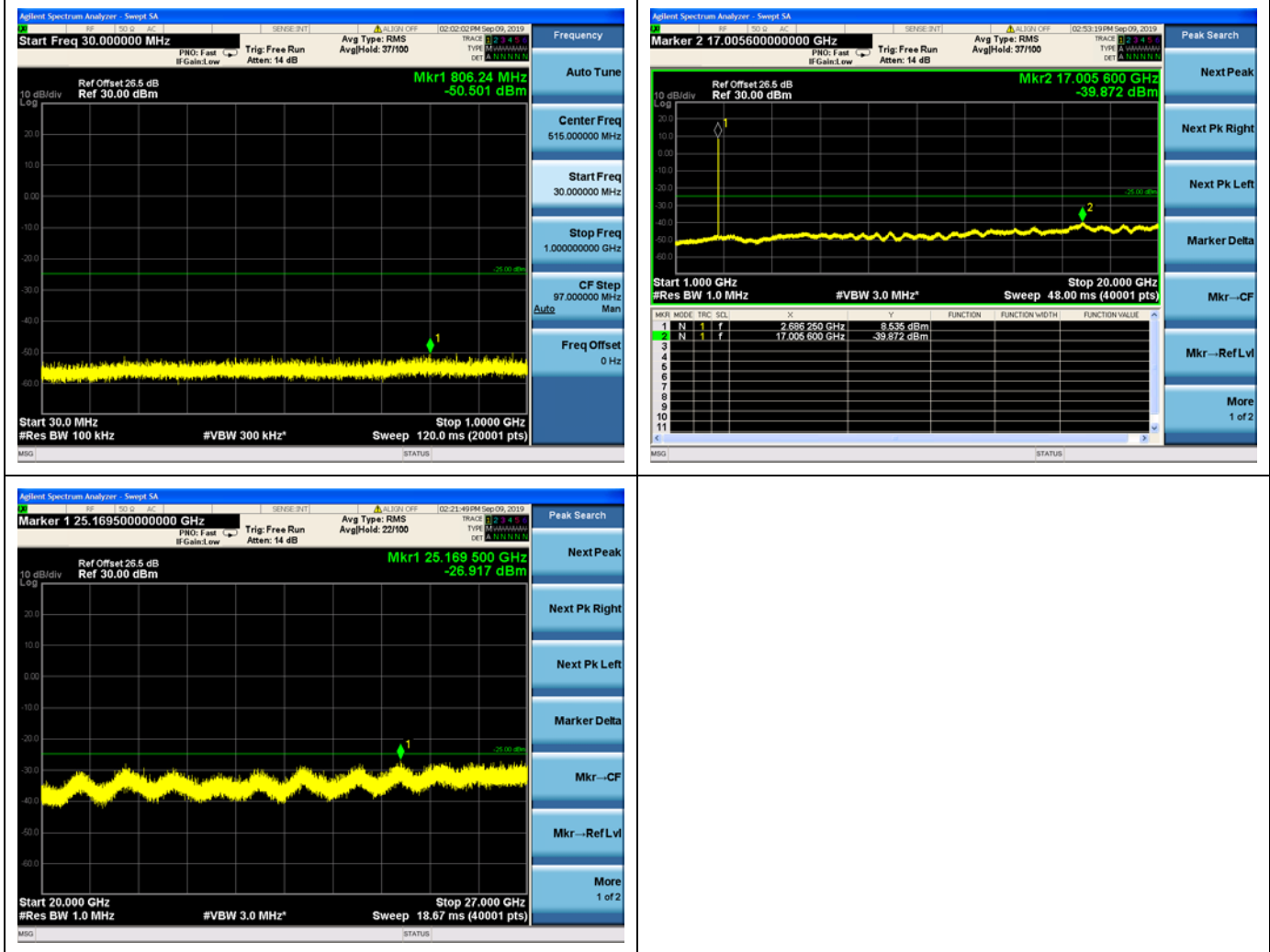
5MHz/16QAM/Mid CH





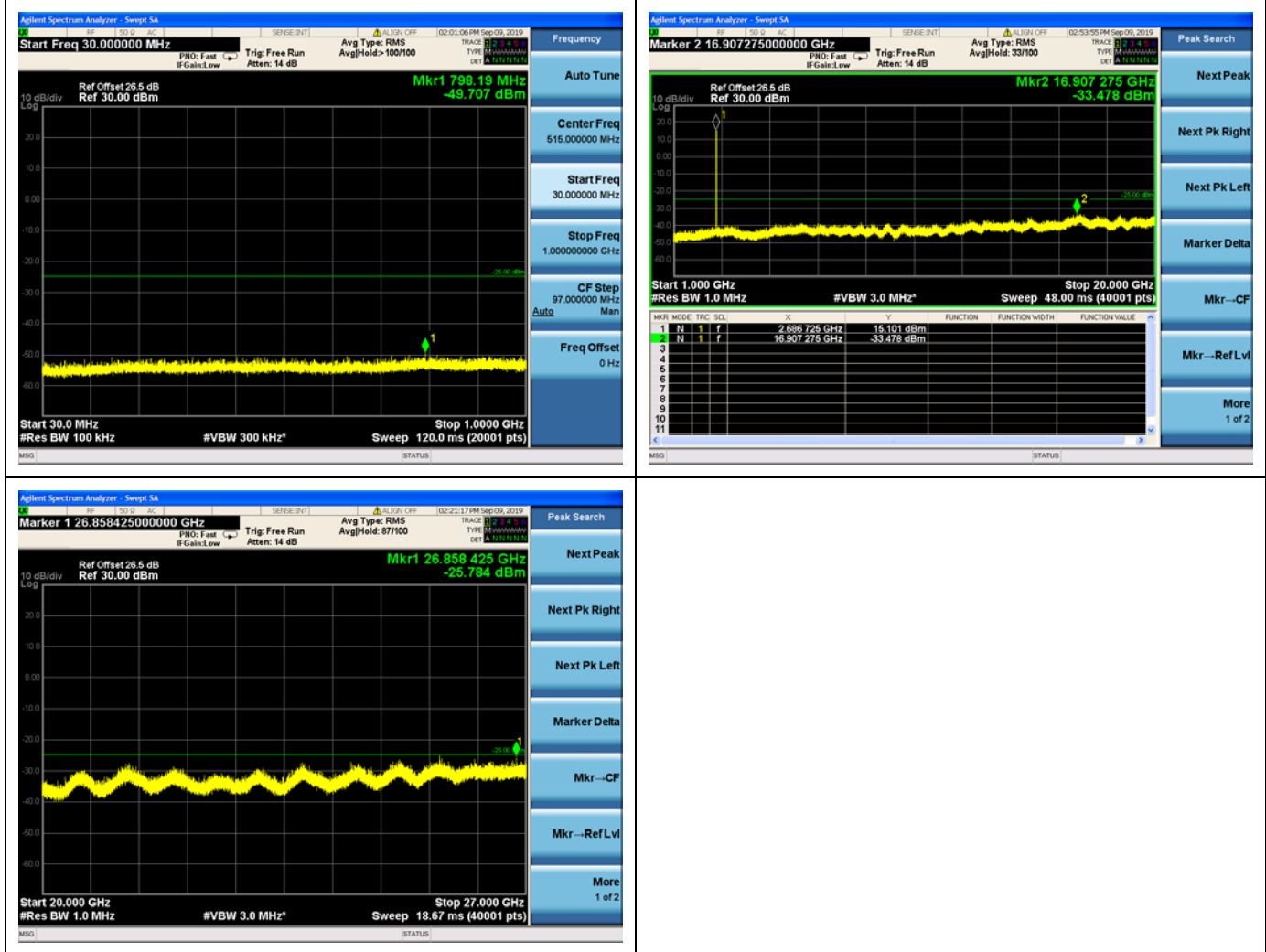
LTE Band 41 CSE

5MHz/QPSK /High CH





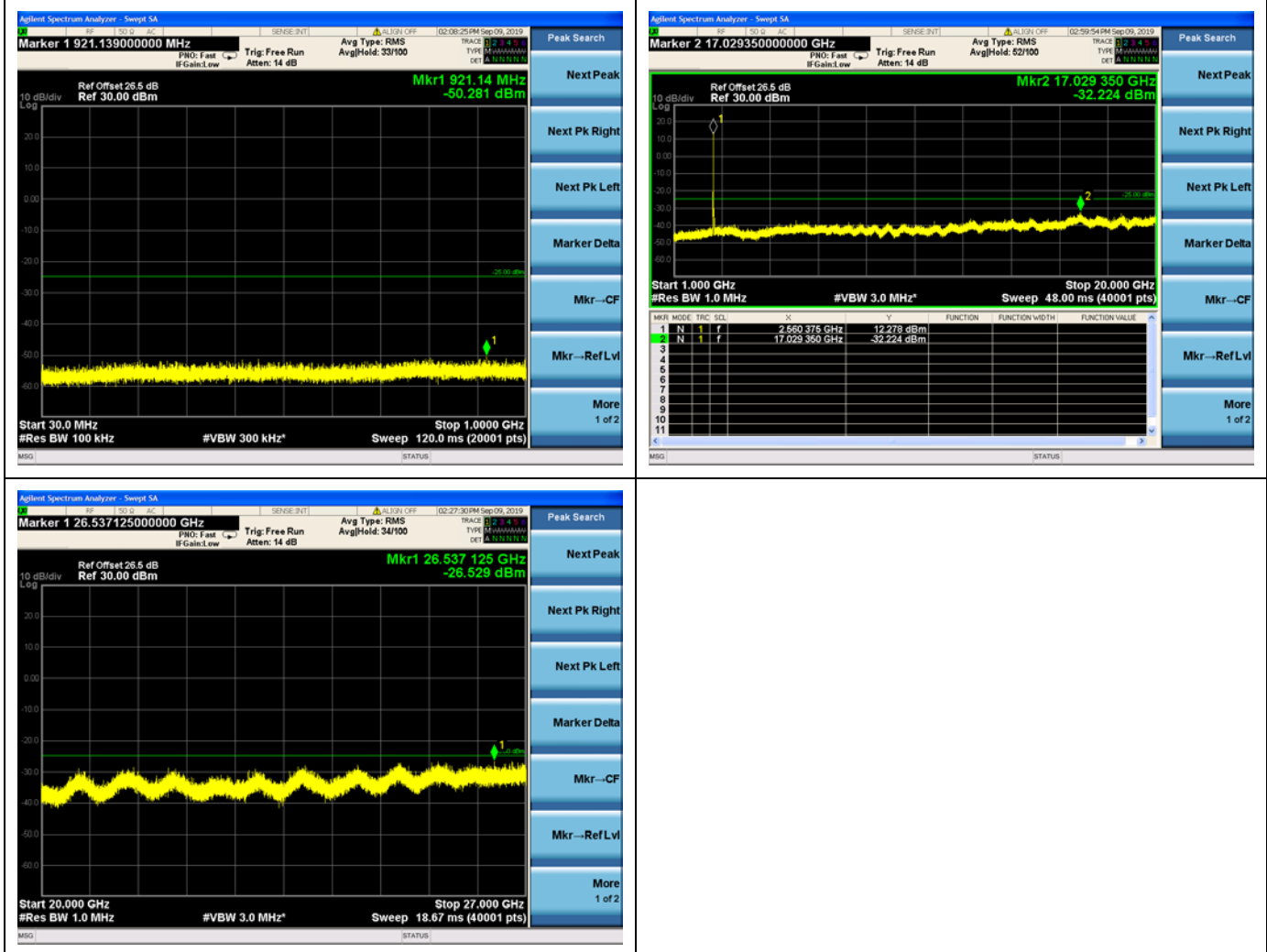
5MHz/16QAM/High CH





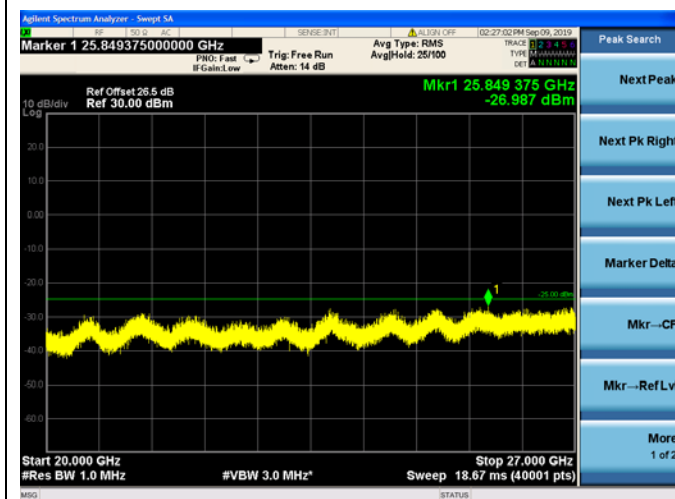
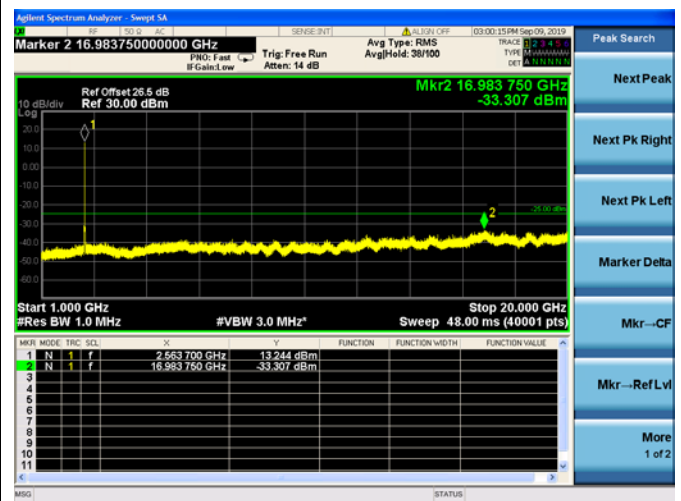
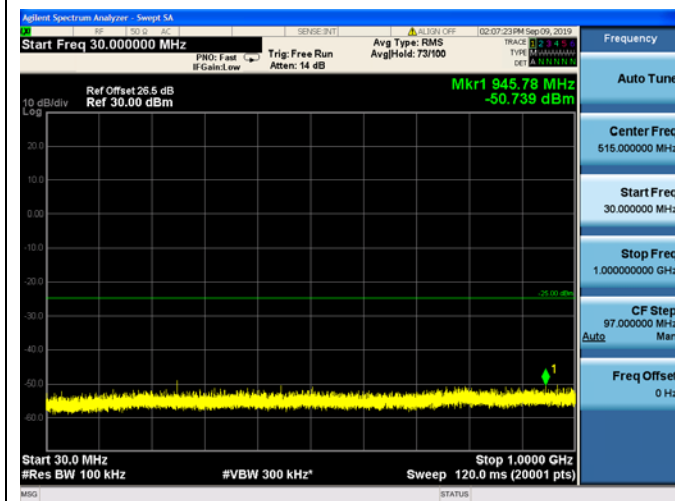
LTE Band 41 CSE

10MHz/QPSK /Low CH





10MHz/16QAM/Low CH





LTE Band 41 CSE

10MHz/QPSK /Mid CH

