



RF TEST REPORT

Applicant Xiaomi Communications Co., Ltd.
FCC ID 2AFZZ-RMSG6S
Product Mobile Phone
Brand MI
Model MDG6S
Report No. RXA1708-0290RF08R4
Issue Date September 28, 2017

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2017)/ FCC CFR47 Part 27C (2017)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Jiang peng Lan

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	RF power output	2.1046	PASS
2	Effective Isotropic Radiated power	27.50(d)(4) /27.50(h)(2)	PASS
3	Occupied Bandwidth	2.1049	PASS
4	Band Edge Compliance	27.53(h) /27.53(m)	PASS
5	Peak-to-Average Power Ratio	27.50(d)/KDB971168 D01(5.7)	PASS
6	Frequency Stability	2.1055 / 27.54	PASS
7	Spurious Emissions at Antenna Terminals	2.1051 27.53(h) /27.53(m)	PASS
8	Radiates Spurious Emission	2.1053 /27.53(h) /27.53(m)	PASS
Date of Testing: August 25, 2017 ~ September 1, 2017			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard.			

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above. This report must not be used by the client to claim product certification, approval, or endorsement by any government agencies.

1.2 Test facility

CNAS (accreditation number: L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

VCCI (recognition number is C-4595, T-2154, R-4113, G-10766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
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2 General Description of Equipment under Test

Client Information

Applicant	Xiaomi Communications Co., Ltd.
Applicant address	The Rainbow City of China Resources,NO.68,Qinghe Middle Street,Haidian District,Beijing,China
Manufacturer	Xiaomi Communications Co., Ltd.
Manufacturer address	The Rainbow City of China Resources,NO.68,Qinghe Middle Street,Haidian District,Beijing,China

General information

EUT Description			
Model:	MDG6S		
IMEI:	SIM1:865396030036780 SIM2:865396030036798		
Hardware Version:	P2		
Software Version:	MIUI9		
Power Supply:	Battery/AC adapter		
Antenna Type:	Internal Antenna		
Test Mode(s):	LTE Band 4; LTE Band 7, LTE Band 38;		
Maximum E.I.R.P./ E.R.P.	LTE Band 4:	18.99dBm	
	LTE Band 7:	25.56dBm	
	LTE Band 38:	25.23dBm	
Rated Power Supply Voltage:	3.85V		
Extreme Voltage:	Minimum: 3.65V Maximum: 4.4V		
Extreme Temperature:	Lowest: -10°C Highest: +55°C		
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)
	LTE Band 4	1710 ~ 1755	2110 ~ 2155
	LTE Band 7	2500 ~ 2570	2620 ~ 2690
	LTE Band 38	2570 ~ 2620	2570 ~ 2620
EUT Accessory			
Adapter 1	Manufacturer: Jiangsu Chenyang Electron Co., Ltd. Model: MDY-08-EZ		
Adapter 2	Manufacturer: DONGGUAN AOHAI POWER TECHNOLOGY CO., LTD. Model: MDY-08-EZ		
Battery 1	Manufacturer:HARBIN COSLIGHT POWER CO LTD Model: BN31		
Battery 2	Manufacturer:Sunwoda Electronic Co.,LTD Model: BN31		



USB Cable	Manufacturer:BOLUDE Model:A TO Micro-B Length: 1m
<p>Note: 1. The information of the EUT is declared by the manufacturer. 2. There is more than one Adapter /one SIM card slot/ one Battery, each one should be applied throughout the compliance test respectively, however, only the worst case (Adapter 2 /SIM 1 /Battery 1) will be recorded in this report.</p>	

3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards

FCC CFR47 Part 2 (2017)

FCC CFR47 Part 27C (2017)

ANSI/TIA-603-D (2010)

KDB 971168 D01 Power Meas License Digital Systems v02r02

4 Test Configuration

There is more than one SIM card slot, each one should be applied throughout the compliance test respectively, and however, only the worst case (SIM 1) will be recorded in this report

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (Z axis, vertical polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in LTE is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below for LTE Band 4/7/38:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	50%	100%	L	M	H
RF power output	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	O	O	O	O	O
	LTE38	-	-	O	O	O	O	O	O	O	O	O	O	O	O
Effective Isotropic Radiated power	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	-	-	O	O	O	O
Occupied Bandwidth	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 4	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 7	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 38	-	-	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 4	O	O	O	O	O	O	O	O	-	-	O	-	O	-
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	-	O	-
	LTE 38	-	-	O	O	O	O	O	O	-	-	O	-	O	-
Spurious Emissions at Antenna Terminals	LTE 4	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 7	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 38	-	-	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	LTE 4	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 7	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 38	-	-	O	O	O	O	O	-	O	-	-	O	O	O
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.														

5 Test Information

5.1 RF Power Output

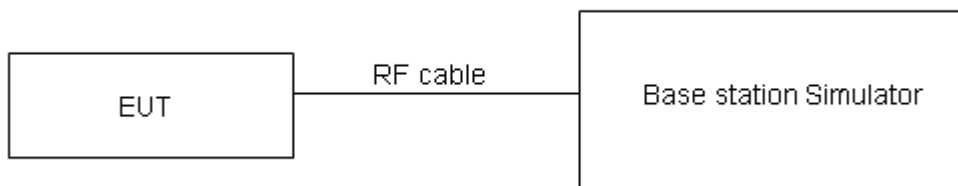
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT is controlled by the Base Station Simulator to ensure max power transmission and proper modulation.

Test Setup



The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.

Limits

No specific RF power output requirements in part 2.1046.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.4$ dB.

Test Results

LTE Band 4				AV Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				19957/1710.7	20175/1732.5	20393/1754.3
1.4MHz	QPSK	1	0	23.24	23.72	23.74
		1	2	23.33	23.63	23.48
		1	5	23.16	23.33	23.26
		3	0	23.00	23.46	23.48
		3	2	23.01	23.35	23.14
		3	3	23.12	23.54	23.07
		6	0	22.11	22.58	22.38
	16QAM	1	0	22.24	22.56	22.37
		1	2	22.29	22.32	22.36
		1	5	22.08	22.22	22.24
		3	0	22.10	22.12	22.00
		3	2	22.09	22.29	22.14
		3	3	22.15	22.14	22.24
		6	0	21.05	21.27	21.53
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				19965/1711.5	20175/1732.5	20385/1753.5
3MHz	QPSK	1	0	23.26	23.76	23.77
		1	7	23.36	23.68	23.52
		1	14	23.19	23.38	23.30
		8	0	22.10	22.58	22.61
		8	4	22.13	22.45	22.26
		8	7	22.22	22.65	22.17
		15	0	22.14	22.62	22.41
	16QAM	1	0	22.27	22.58	22.40
		1	7	22.32	22.37	22.40
		1	14	22.10	22.26	22.27
		8	0	21.21	21.25	21.12
		8	4	21.20	21.42	21.26
		8	7	21.25	21.26	21.37
		15	0	21.08	21.31	21.56
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				19975/1712.5	20175/1732.5	20375/1752.5
5MHz	QPSK	1	0	23.23	23.74	23.73
		1	13	23.34	23.64	23.49
		1	24	23.16	23.33	23.26
		12	0	22.07	22.53	22.57
		12	6	22.11	22.41	22.21
		12	13	22.20	22.63	22.13
		25	0	22.12	22.61	22.39



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				20000/1715	20175/1732.5	20350/1750
	16QAM	1	0	22.24	22.54	22.37
		1	13	22.29	22.35	22.37
		1	24	22.07	22.24	22.23
		12	0	21.19	21.21	21.09
		12	6	21.17	21.37	21.22
		12	13	21.22	21.21	21.33
		25	0	21.06	21.27	21.51
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				20025/1717.5	20175/1732.5	20325/1747.5
10MHz	QPSK	1	0	23.25	23.75	23.76
		1	25	23.37	23.69	23.53
		1	49	23.18	23.37	23.29
		25	0	22.10	22.58	22.61
		25	13	22.14	22.46	22.25
		25	25	22.22	22.67	22.18
		50	0	22.20	22.63	22.43
	16QAM	1	0	22.26	22.57	22.39
		1	25	22.32	22.39	22.40
		1	49	22.10	22.26	22.26
		25	0	21.22	21.26	21.13
		25	13	21.19	21.41	21.25
		25	25	21.25	21.26	21.37
		50	0	21.09	21.32	21.55
15MHz	QPSK	1	0	23.24	23.71	23.74
		1	38	23.35	23.68	23.50
		1	74	23.15	23.32	23.25
		36	0	22.08	22.54	22.58
		36	18	22.11	22.41	22.21
		36	39	22.19	22.64	22.14
		75	0	22.18	22.59	22.38
	16QAM	1	0	22.21	22.55	22.37
		1	38	22.30	22.36	22.38
		1	74	22.07	22.22	22.23
		36	0	21.19	21.24	21.10
		36	18	21.16	21.36	21.21
		36	39	21.23	21.22	21.34
		75	0	21.06	21.27	21.51
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				20050/1720	20175/1732.5	20300/1745
20MHz	QPSK	1	0	23.21	23.67	23.71
		1	50	23.34	23.64	23.48



		1	99	23.13	23.31	23.22
		50	0	22.05	22.49	22.54
		50	25	22.09	22.37	22.18
		50	50	22.16	22.59	22.10
		100	0	22.15	22.54	22.34
	16QAM	1	0	22.19	22.51	22.32
		1	50	22.26	22.34	22.34
		1	99	22.05	22.19	22.21
		50	0	21.16	21.20	21.07
		50	25	21.13	21.34	21.18
		50	50	21.20	21.17	21.30
		100	0	21.04	21.23	21.48

LTE Band 7				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				20775/2502.5	21100/2535	21425/2567.5
5MHz	QPSK	1	0	22.56	22.79	22.64
		1	13	22.63	22.76	22.99
		1	24	22.54	22.56	22.83
		12	0	20.54	21.00	20.92
		12	6	20.73	21.02	21.09
		12	13	20.80	20.99	21.11
		25	0	20.65	20.99	21.05
	16QAM	1	0	20.69	21.25	20.82
		1	13	21.16	21.30	21.08
		1	24	21.01	21.42	21.23
		12	0	19.97	20.36	20.34
		12	6	20.21	20.40	20.42
		12	13	20.21	20.23	20.36
		25	0	20.05	20.17	20.24
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				20800/2505	21100/2535	21400/2565
10MHz	QPSK	1	0	22.58	22.80	22.67
		1	25	22.66	22.81	23.03
		1	49	22.56	22.60	22.86
		25	0	20.57	21.05	20.96
		25	13	20.76	21.07	21.13
		25	25	20.82	21.03	21.16
		50	0	20.73	21.01	21.09
	16QAM	1	0	20.71	21.28	20.84
		1	25	21.19	21.34	21.11
		1	49	21.04	21.44	21.26



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				20825/2507.5	21100/2535	21375/2562.5
15MHz	QPSK	25	0	20.00	20.41	20.38
		25	13	20.23	20.44	20.45
		25	25	20.24	20.28	20.40
		50	0	20.08	20.22	20.28
		1	0	22.57	22.76	22.65
		1	38	22.64	22.80	23.00
		1	74	22.53	22.55	22.82
	16QAM	36	0	20.55	21.01	20.93
		36	18	20.73	21.02	21.09
		36	39	20.79	21.00	21.12
		75	0	20.71	20.97	21.04
		1	0	20.66	21.26	20.82
		1	38	21.17	21.31	21.09
		1	74	21.01	21.40	21.23
20MHz	QPSK	36	0	19.97	20.39	20.35
		36	18	20.20	20.39	20.41
		36	39	20.22	20.24	20.37
		75	0	20.05	20.17	20.24
		1	0	22.54	22.72	22.62
		1	50	22.63	22.76	22.98
		1	99	22.51	22.54	22.79
	16QAM	50	0	21.21	21.26	21.19
		50	25	21.01	21.28	21.36
		50	50	21.06	21.25	21.38
		100	0	21.36	21.32	21.33
		1	0	20.64	21.22	21.07
		1	50	21.13	21.29	21.05
		1	99	21.12	21.37	21.21
QPSK	50	0	20.03	20.35	20.32	
	50	25	20.17	20.37	20.38	
	50	50	20.19	20.19	20.33	
	100	0	20.03	20.13	20.21	



LTE Band 38				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel		
				37775	38000	38225
5MHz	QPSK	1	0	22.81	22.62	22.70
		1	13	22.60	22.67	22.78
		1	24	22.33	22.68	22.61
		12	0	21.79	21.73	21.65
		12	6	21.66	21.66	21.71
		12	13	21.74	21.61	21.63
		25	0	21.64	21.82	21.63
	16QAM	1	0	21.37	21.21	21.12
		1	13	21.53	21.32	21.14
		1	24	21.24	21.28	21.29
		12	0	20.80	20.56	20.67
		12	6	20.79	20.66	20.64
		12	13	20.86	20.75	20.67
		25	0	20.67	20.77	20.73
Bandwidth	Modulation	RB size	RB offset	Channel		
				37800	38000	38200
10MHz	QPSK	1	0	22.83	22.63	22.73
		1	25	22.63	22.72	22.82
		1	49	22.35	22.72	22.64
		25	0	21.82	21.78	21.69
		25	13	21.69	21.71	21.75
		25	25	21.76	21.65	21.68
		50	0	21.72	21.84	21.67
	16QAM	1	0	21.39	21.24	21.14
		1	25	21.56	21.36	21.17
		1	49	21.27	21.30	21.32
		25	0	20.83	20.61	20.71
		25	13	20.81	20.70	20.67
		25	25	20.89	20.80	20.71
		50	0	20.70	20.82	20.77
Bandwidth	Modulation	RB size	RB offset	Channel		
				37825	38000	38175
15MHz	QPSK	1	0	22.82	22.59	22.71
		1	38	22.61	22.71	22.79
		1	74	22.32	22.67	22.60
		36	0	21.80	21.74	21.66
		36	18	21.66	21.66	21.71
		36	39	21.73	21.62	21.64
		75	0	21.70	21.80	21.62



Bandwidth	Modulation	RB size	RB offset	Channel		
				37850	38000	38150
20MHz	16QAM	1	0	21.34	21.22	21.12
		1	38	21.54	21.33	21.15
		1	74	21.24	21.26	21.29
		36	0	20.80	20.59	20.68
		36	18	20.78	20.65	20.63
		36	39	20.87	20.76	20.68
		75	0	20.67	20.77	20.73
	QPSK	1	0	22.79	22.55	22.68
		1	50	22.60	22.67	22.77
		1	99	22.30	22.66	22.57
		50	0	21.77	21.69	21.62
		50	25	21.64	21.62	21.68
		50	50	21.70	21.57	21.60
		100	0	21.67	21.75	21.58
16QAM	1	0	21.32	21.18	21.07	
	1	50	21.50	21.31	21.11	
	1	99	21.22	21.23	21.27	
	50	0	20.77	20.55	20.65	
	50	25	20.75	20.63	20.60	
	50	50	20.84	20.71	20.64	
	100	0	20.65	20.73	20.70	

5.2 Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI/TIA-603-D-2010.

a) Connect the equipment as illustrated. Mount the equipment with the manufacturer specified antenna in a vertical orientation on a manufacturer specified mounting surface located on a non-conducting rotating platform of a RF anechoic chamber (preferred) or a standard radiation site.

b) Key the transmitter, then rotate the EUT 360° azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading at each angular increment. (Note: several batteries may be needed to offset the effect of battery voltage droop, which should not exceed 5% of the manufactured specified battery voltage during transmission).

c) Replace the transmitter under test with a vertically polarized half-wave dipole (or an antenna whose gain is known relative to an ideal half-wave dipole). The center of the antenna should be at the same location as the center of the antenna under test.

d) Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading. $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$

e) Determine the effective radiated output power at each angular position from the readings in steps b) and d) using the following equation: $ERP \text{ (dBm)} = LVL \text{ (dBm)} + LOSS \text{ (dB)}$

f) The maximum ERP is the maximum value determined in the preceding step.

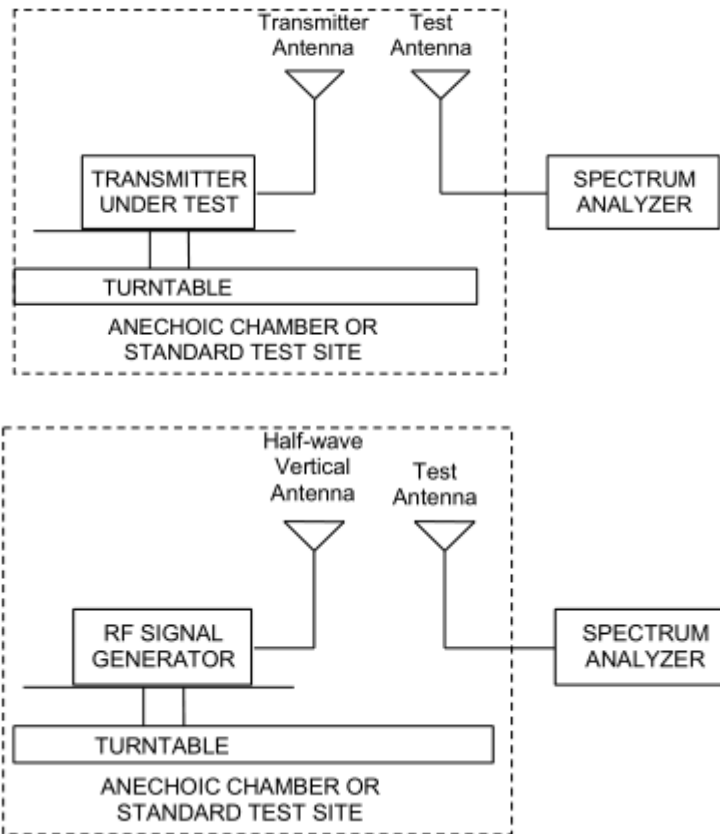
g) When calculating ERP, in addition to knowing the antenna radiation and matching characteristics, it is necessary to know the loss values of all elements (e.g. transmission line attenuation, mismatches, filters, combiners) interposed between the point where transmitter output power is measured, and the point where power is applied to the antenna. ERP can then be calculated as follows:

$$ERP \text{ (dBm)} = \text{Output Power (dBm)} - \text{Losses (dB)} + \text{Antenna Gain (dBd)}$$

where: dBd refers to gain relative to an ideal dipole.

$$EIRP \text{ (dBm)} = ERP \text{ (dBm)} + 2.15 \text{ (dB.)}$$

Test setup



Note: Area side:2.4mX3.6m

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

Limits

Rule Part 27.50(b) (10) specifies that “Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP”

Rule Part 27.50(c) (10) specifies that “Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP”

Rule Part 27.50(d) (4) specifies that “Fixed, mobile and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP”

Rule Part 27.50(h) (2) specifies that “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.”

Part 27.50(d)(4)Limit (EIRP)	≤ 1 W (30 dBm)
Part 27.50(h)(2) Limit (EIRP)	≤ 2 W (33 dBm)

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 1.19$ dB

Test Results

The measurement is performed for both of H and V antenna Polarization, and only the data of worst mode is recorded in this report.

LTE Band 4							
Bandwidth	Frequency (MHz)	Antenna Polarization	Output Power (dBm)	Losses (dB)	Antenna Gain (dBd)	EIRP (dBm)	Conclusion
1.4 MHz (QPSK)	1710.7	Horizontal	-37.20	-54.30	1.44	18.54	Pass
	1732.5	Horizontal	-37.14	-54.32	1.57	18.74	Pass
	1754.3	Horizontal	-37.64	-54.10	1.72	18.17	Pass
3 MHz (QPSK)	1711.5	Horizontal	-36.89	-54.33	1.44	18.89	Pass
	1732.5	Horizontal	-37.05	-54.32	1.57	18.83	Pass
	1753.5	Horizontal	-37.45	-54.11	1.72	18.37	Pass
5 MHz (QPSK)	1712.5	Horizontal	-36.81	-54.34	1.44	18.97	Pass
	1732.5	Horizontal	-36.89	-54.32	1.57	18.99	Pass
	1752.5	Horizontal	-37.15	-54.13	1.72	18.69	Pass
10 MHz (QPSK)	1715	Horizontal	-36.96	-54.33	1.44	18.81	Pass
	1732.5	Horizontal	-36.98	-54.32	1.57	18.90	Pass
	1750	Horizontal	-37.04	-54.12	1.66	18.74	Pass
15 MHz (QPSK)	1717.5	Horizontal	-37.23	-54.35	1.49	18.60	Pass
	1732.5	Horizontal	-37.26	-54.32	1.57	18.62	Pass
	1747.5	Horizontal	-37.51	-54.17	1.66	18.32	Pass
20 MHz (QPSK)	1720	Horizontal	-37.41	-54.37	1.49	18.45	Pass
	1732.5	Horizontal	-37.35	-54.32	1.57	18.53	Pass
	1745	Horizontal	-37.49	-54.23	1.63	18.37	Pass
1.4 MHz (16QAM)	1710.7	Horizontal	-37.39	-54.35	1.44	18.40	Pass
	1732.5	Horizontal	-37.37	-54.41	1.57	18.61	Pass
	1754.3	Horizontal	-38.20	-54.52	1.72	18.04	Pass
3 MHz (16QAM)	1711.5	Horizontal	-37.04	-54.35	1.44	18.75	Pass
	1732.5	Horizontal	-37.28	-54.41	1.57	18.69	Pass
	1753.5	Horizontal	-37.96	-54.48	1.72	18.24	Pass
5 MHz (16QAM)	1712.5	Horizontal	-36.99	-54.38	1.44	18.83	Pass
	1732.5	Horizontal	-37.12	-54.41	1.57	18.85	Pass
	1752.5	Horizontal	-37.63	-54.47	1.72	18.55	Pass
10 MHz (16QAM)	1715	Horizontal	-37.08	-54.32	1.44	18.68	Pass
	1732.5	Horizontal	-37.21	-54.41	1.57	18.77	Pass
	1750	Horizontal	-37.58	-54.52	1.66	18.60	Pass
15 MHz (16QAM)	1717.5	Horizontal	-37.41	-54.39	1.49	18.47	Pass
	1732.5	Horizontal	-37.49	-54.41	1.57	18.49	Pass
	1747.5	Horizontal	-37.98	-54.51	1.66	18.19	Pass



20 MHz (16QAM)	1720	Horizontal	-37.61	-54.44	1.49	18.31	Pass
	1732.5	Horizontal	-37.58	-54.41	1.57	18.40	Pass
	1745	Horizontal	-37.98	-54.59	1.63	18.24	Pass

Note: The worst emission was found in the antenna is Horizontal position.

LTE Band 7							
Band width	Frequency (MHz)	Antenna Polarization	Output Power (dBm)	Losses (dB)	Antenna Gain (dBd)	EIRP (dBm)	Conclusion
5 MHz (QPSK)	2502.5	Horizontal	-36.53	-59.31	1.81	24.59	Pass
	2535	Horizontal	-36.14	-59.11	1.81	24.78	Pass
	2567.5	Horizontal	-35.86	-59.59	1.83	25.56	Pass
10 MHz (QPSK)	2505	Horizontal	-36.80	-59.33	1.82	24.35	Pass
	2535	Horizontal	-36.38	-59.11	1.81	24.54	Pass
	2565	Horizontal	-36.08	-59.59	1.81	25.32	Pass
15 MHz (QPSK)	2507.5	Horizontal	-36.21	-59.29	1.80	24.88	Pass
	2535	Horizontal	-36.71	-59.72	1.81	24.82	Pass
	2562.5	Horizontal	-35.97	-59.46	1.82	25.31	Pass
20 MHz (QPSK)	2510	Horizontal	-36.21	-59.09	1.77	24.65	Pass
	2535	Horizontal	-36.95	-59.72	1.81	24.58	Pass
	2560	Horizontal	-36.26	-59.52	1.82	25.08	Pass
5 MHz (16QAM)	2502.5	Horizontal	-37.02	-59.64	1.81	24.43	Pass
	2535	Horizontal	-36.91	-59.72	1.81	24.62	Pass
	2567.5	Horizontal	-36.02	-59.59	1.83	25.40	Pass
10 MHz (16QAM)	2505	Horizontal	-36.95	-59.33	1.82	24.20	Pass
	2535	Horizontal	-36.54	-59.11	1.81	24.39	Pass
	2565	Horizontal	-36.24	-59.59	1.81	25.16	Pass
15 MHz (16QAM)	2507.5	Horizontal	-36.37	-59.29	1.80	24.72	Pass
	2535	Horizontal	-36.87	-59.72	1.81	24.66	Pass
	2562.5	Horizontal	-36.12	-59.46	1.82	25.16	Pass
20 MHz (16QAM)	2510	Horizontal	-36.37	-59.09	1.77	24.49	Pass
	2535	Horizontal	-37.11	-59.72	1.81	24.43	Pass
	2560	Horizontal	-36.42	-59.52	1.82	24.92	Pass

Note: The worst emission was found in the antenna is Horizontal position.

LTE Band 38							
Band width	Frequency (MHz)	Antenna Polarization	Output Power (dBm)	Losses (dB)	Antenna Gain (dBd)	EIRP (dBm)	Conclusion
5 MHz (QPSK)	2572.5	Horizontal	-39.54	-58.66	2.14	21.26	Pass
	2595	Horizontal	-39.73	-58.46	2.13	20.86	Pass
	2617.5	Horizontal	-37.89	-58.94	2.09	23.14	Pass
10 MHz (QPSK)	2575	Horizontal	-35.87	-58.96	2.14	25.23	Pass
	2595	Horizontal	-36.63	-59.07	2.13	24.57	Pass
	2615	Horizontal	-37.60	-58.94	2.10	23.43	Pass
15 MHz (QPSK)	2577.5	Horizontal	-35.97	-59.06	2.14	25.23	Pass
	2595	Horizontal	-36.69	-59.07	2.13	24.51	Pass
	2612.5	Horizontal	-36.76	-59.43	2.10	24.76	Pass
20 MHz (QPSK)	2580	Horizontal	-35.61	-58.44	2.14	24.97	Pass
	2595	Horizontal	-36.95	-59.07	2.13	24.25	Pass
	2610	Horizontal	-36.47	-58.87	2.11	24.51	Pass
5 MHz (16QAM)	2572.5	Horizontal	-40.06	-58.99	2.14	21.06	Pass
	2595	Horizontal	-40.54	-59.07	2.13	20.66	Pass
	2617.5	Horizontal	-38.50	-59.33	2.12	22.94	Pass
10 MHz (16QAM)	2575	Horizontal	-36.07	-58.96	2.14	25.03	Pass
	2595	Horizontal	-36.83	-59.07	2.13	24.37	Pass
	2615	Horizontal	-38.25	-59.37	2.12	23.24	Pass
15 MHz (16QAM)	2577.5	Horizontal	-35.65	-58.64	2.04	25.03	Pass
	2595	Horizontal	-36.79	-59.07	2.03	24.31	Pass
	2612.5	Horizontal	-36.26	-58.81	2.02	24.57	Pass
20 MHz (16QAM)	2580	Horizontal	-35.71	-58.44	2.04	24.77	Pass
	2595	Horizontal	-37.05	-59.07	2.03	24.05	Pass
	2610	Horizontal	-36.58	-58.87	2.02	24.31	Pass

Note: The worst emission was found in the antenna is Horizontal position.

Note: 1. EIRP= E.R.P+2.15

5.3 Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to 51 kHz, VBW is set to 160 kHz for LTE Band 4 (1.4MHz).

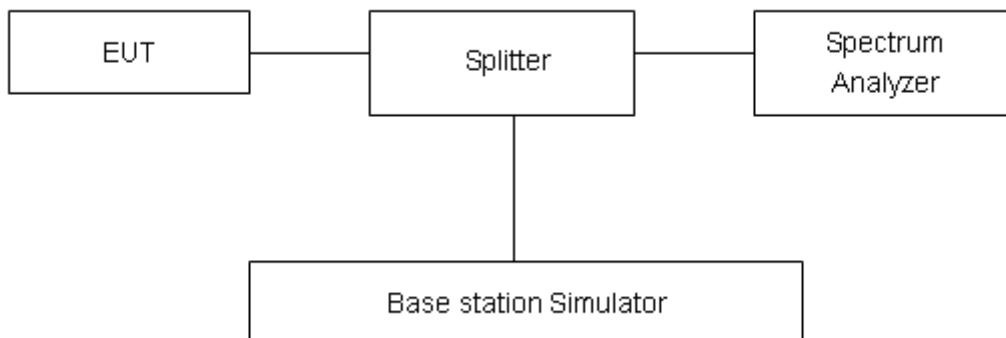
RBW is set to 100 kHz, VBW is set to 300 kHz for LTE Band 4 (3MHz).

RBW is set to 100 kHz, VBW is set to 300 kHz for LTE Band 4/7/38 (5MHz).

RBW is set to 300 kHz, VBW is set to 1MHz for LTE Band 4/7/38(10MHz/15MHz/20MHz).

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=624\text{Hz}$.

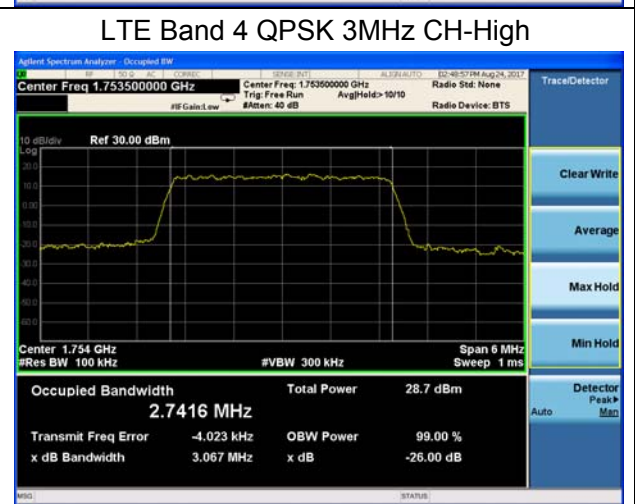
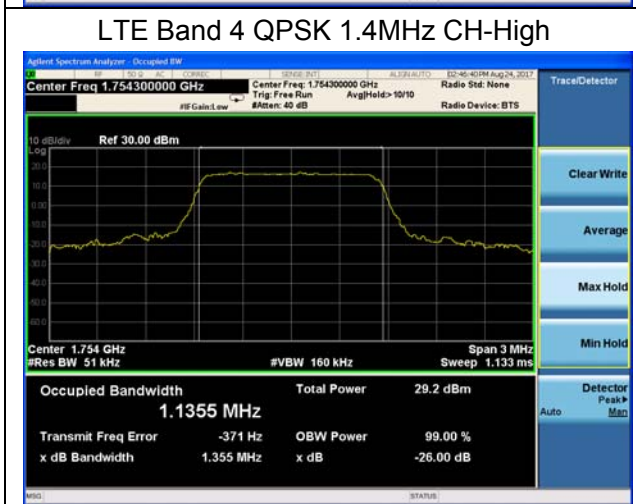
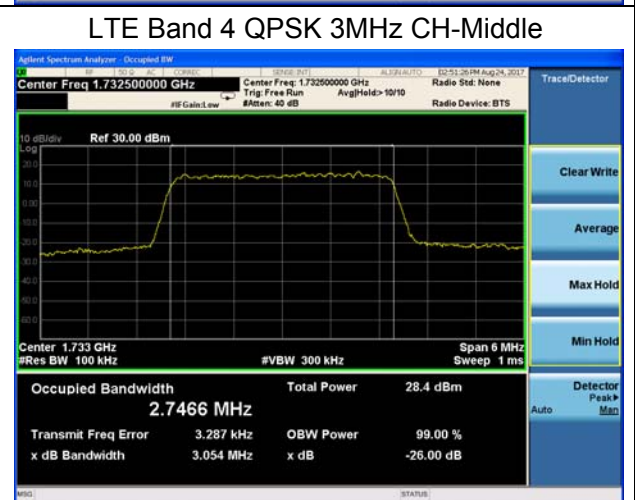
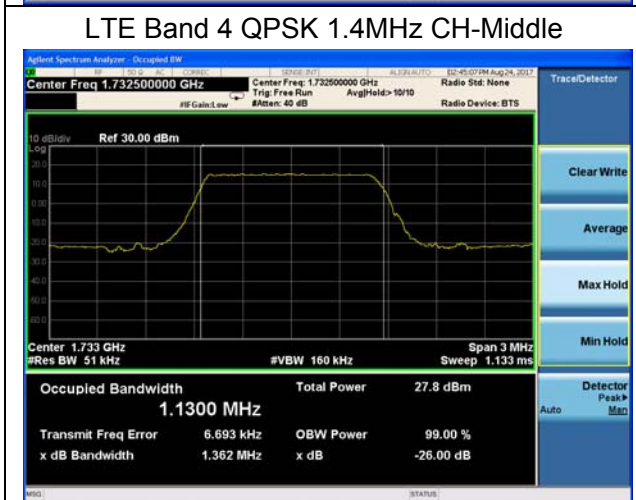
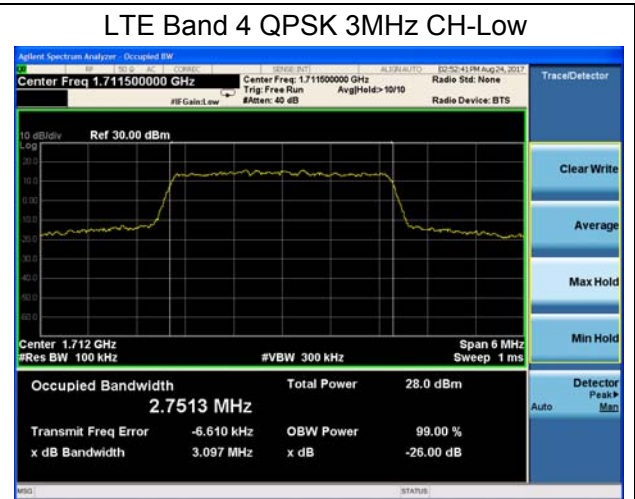
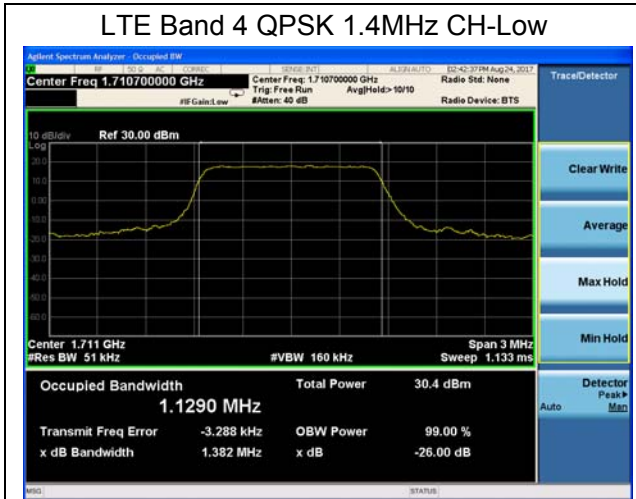
Test Result

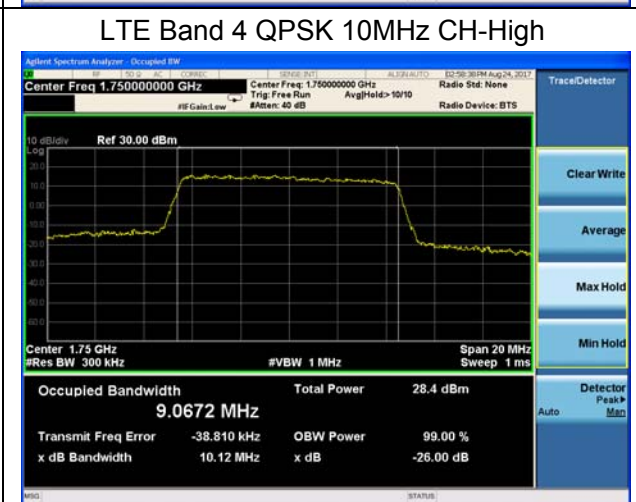
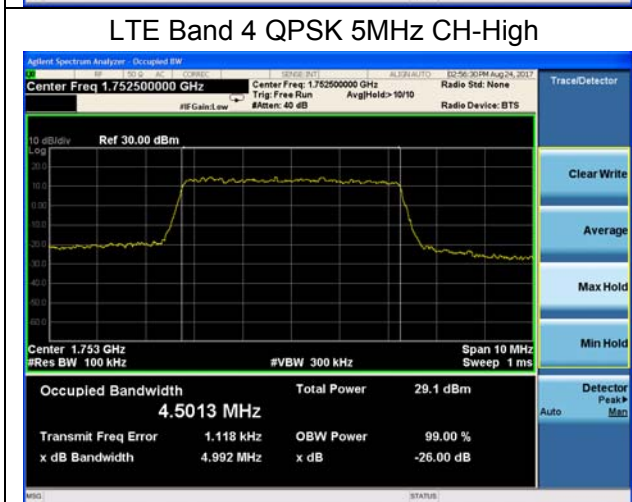
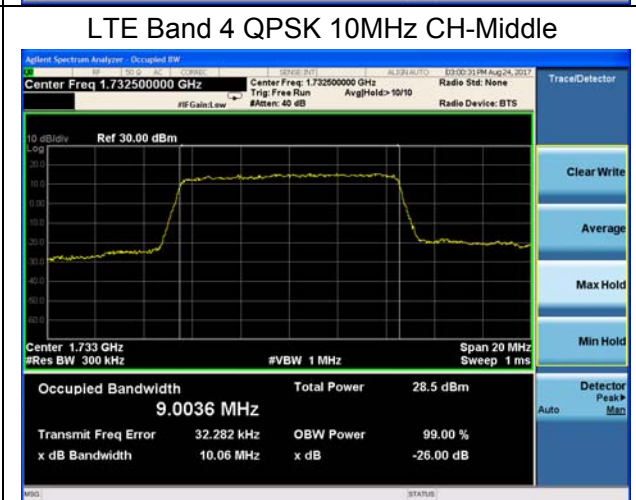
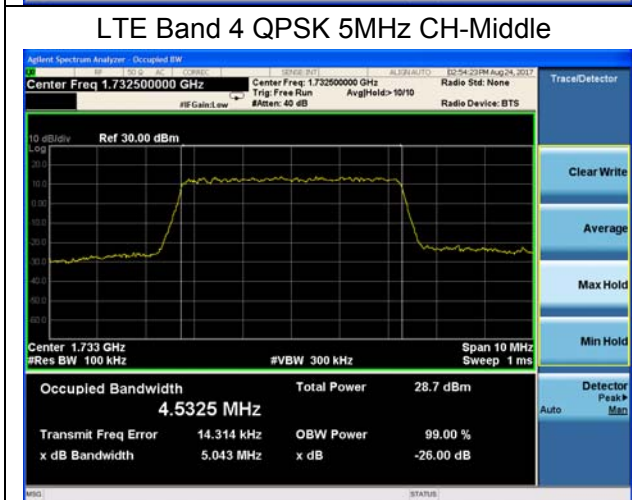
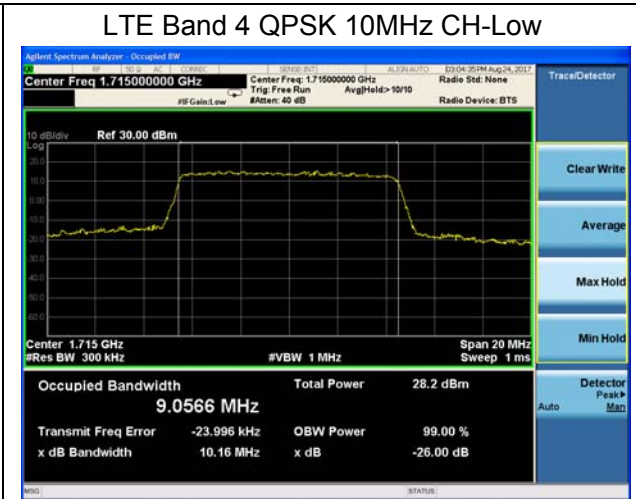
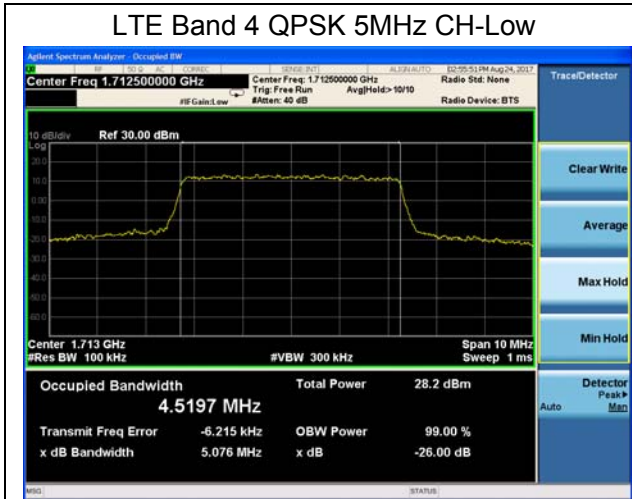
LTE Band 4						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	19957	1710.7	1.1290	1.382
			20175	1732.5	1.1300	1.362
			20393	1754.3	1.1355	1.355
		3	19965	1711.5	2.7513	3.097
			20175	1732.5	2.7466	3.054
			20385	1753.5	2.7416	3.067
		5	19975	1712.5	4.5197	5.076
			20175	1732.5	4.5325	5.043
			20375	1752.5	4.5013	4.992
		10	20000	1715	9.0566	10.16
			20175	1732.5	9.0036	10.06
			20350	1750	9.0672	10.12
		15	20025	1717.5	13.507	14.82
			20175	1732.5	13.395	14.71
			20325	1747.5	13.441	14.77
		20	20050	1720	17.926	19.39
			20175	1732.5	17.867	19.13
			20300	1745	17.822	19.33
	16QAM	1.4	19957	1710.7	1.1307	1.356
			20175	1732.5	1.1221	1.329
			20393	1754.3	1.1239	1.359
		3	19965	1711.5	2.7501	3.093
			20175	1732.5	2.7354	3.067
			20385	1753.5	2.7552	3.068
		5	19975	1712.5	4.5359	5.032
			20175	1732.5	4.5057	4.998
			20375	1752.5	4.5252	5.045
		10	20000	1715	9.0443	10.05
			20175	1732.5	9.0207	10.05
			20350	1750	9.0625	10.00
15		20025	1717.5	13.473	14.70	
		20175	1732.5	13.443	14.72	
		20325	1747.5	13.441	14.64	
20		20050	1720	17.956	19.61	
		20175	1732.5	17.892	19.35	
		20300	1745	17.775	19.22	



LTE Band 7						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	20775	2502.5	4.521	5.015
			21100	2535	4.5062	5.009
			21425	2567.5	4.4999	5.035
		10	20800	2505	9.0371	10.16
			21100	2535	9.0184	10.08
			21400	2565	9.0499	10.06
		15	20825	2507.5	13.486	14.85
			21100	2535	13.412	14.65
			21375	2562.5	13.466	14.82
		20	20850	2510	17.882	19.22
			21100	2535	17.881	19.32
			21350	2560	17.915	19.51
	16QAM	5	20775	2502.5	4.4938	4.988
			21100	2535	4.5273	5.062
			21425	2567.5	4.5259	5.027
		10	20800	2505	9.041	10.00
			21100	2535	9.0255	10.05
			21400	2565	9.0338	10.08
		15	20825	2507.5	13.477	14.76
			21100	2535	13.468	14.73
			21375	2562.5	13.476	14.66
		20	20850	2510	17.899	19.51
			21100	2535	17.904	19.38
			21350	2560	17.903	19.34

LTE Band 38						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	37775	2572.5	4.5152	5.499
			38000	2595	4.5087	5.389
			38225	2617.5	4.5132	4.970
		10	37800	2575	9.0583	11.30
			38000	2595	9.2065	11.85
			38200	2615	9.0827	10.51
		15	37825	2577.5	13.438	14.89
			38000	2595	13.462	14.64
			38175	2612.5	13.487	15.90
		20	37850	2580	17.921	19.87
			38000	2595	17.912	19.15
			38150	2610	17.88	19.72
	16QAM	5	37775	2572.5	4.5251	5.021
			38000	2595	4.5327	5.975
			38225	2617.5	4.5069	5.183
		10	37800	2575	9.0266	11.87
			38000	2595	9.0211	10.37
			38200	2615	9.0391	11.76
		15	37825	2577.5	13.518	15.08
			38000	2595	13.501	15.68
			38175	2612.5	13.462	15.73
		20	37850	2580	17.876	20.15
			38000	2595	17.886	20.42
			38150	2610	17.839	19.82







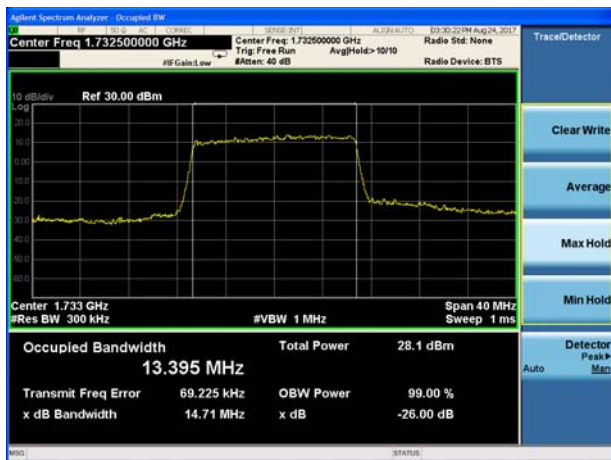
LTE Band 4 QPSK 15MHz CH-Low



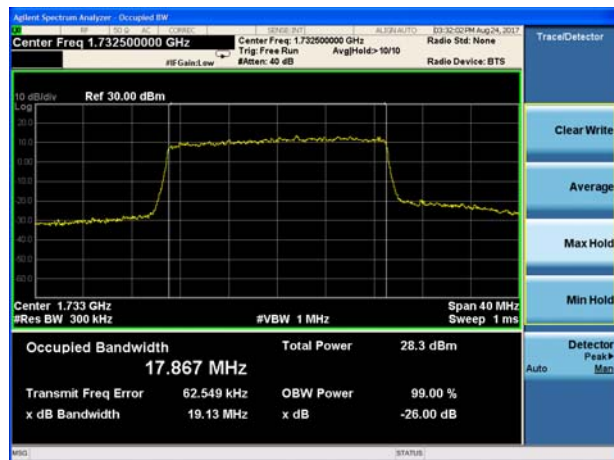
LTE Band 4 QPSK 20MHz CH-Low



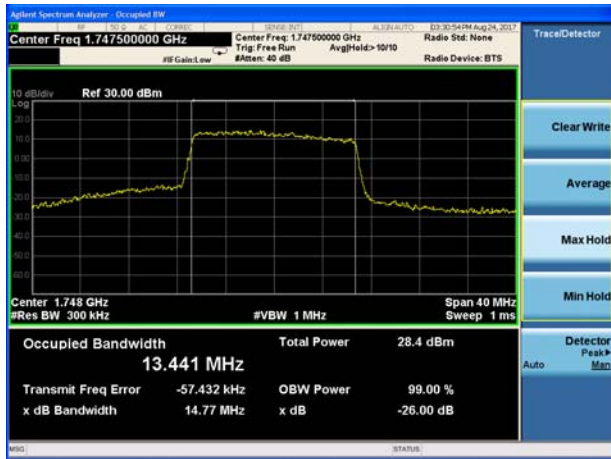
LTE Band 4 QPSK 15MHz CH-Middle



LTE Band 4 QPSK 20MHz CH-Middle

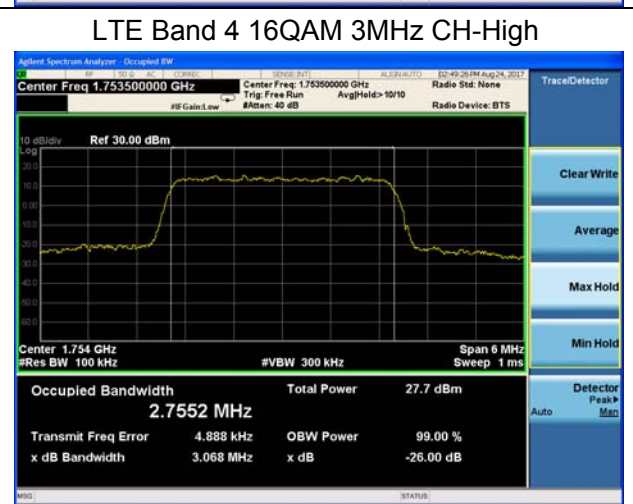
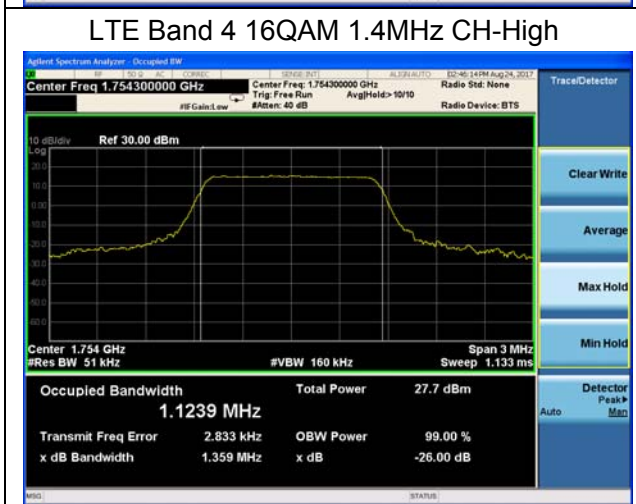
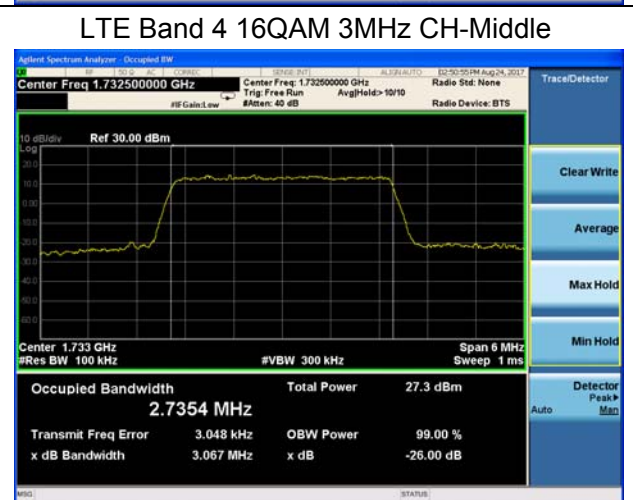
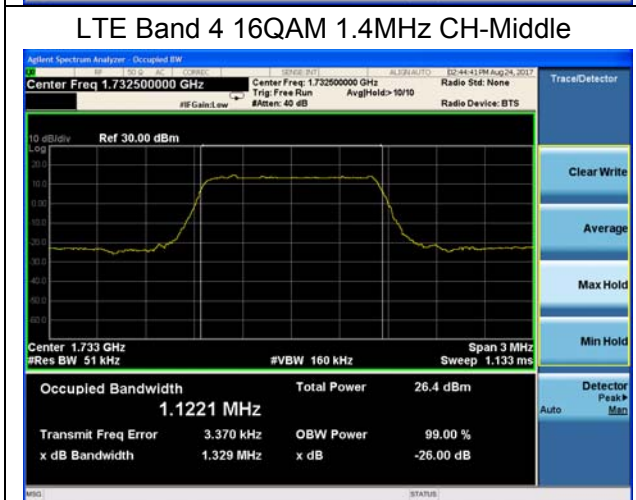
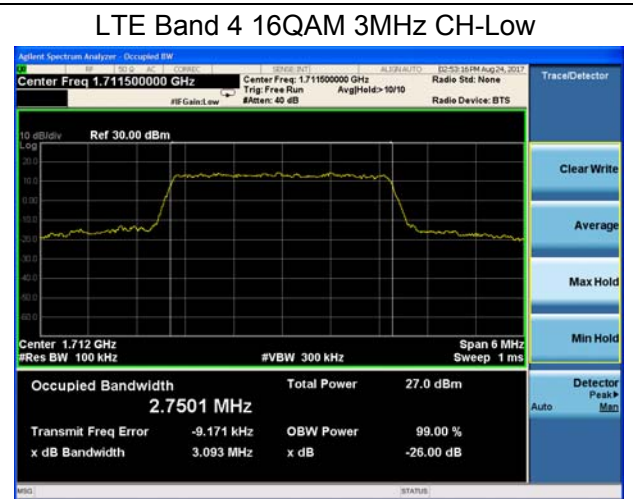
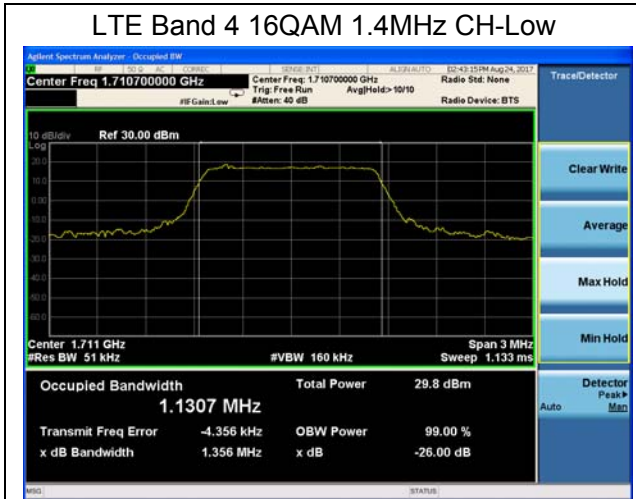


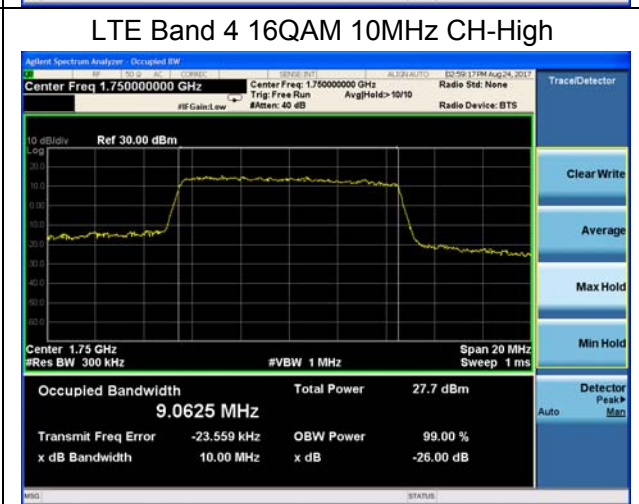
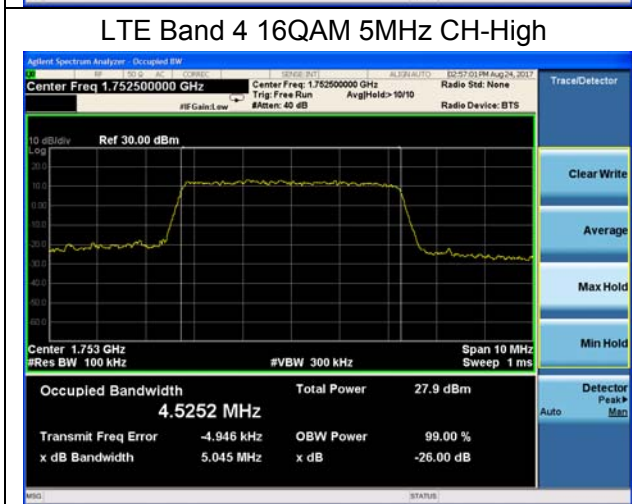
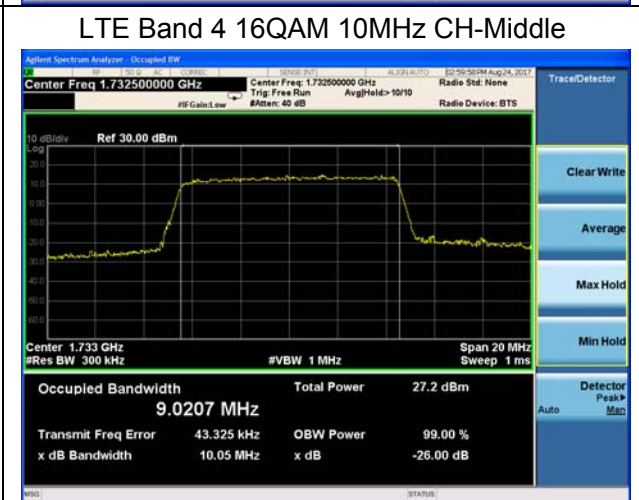
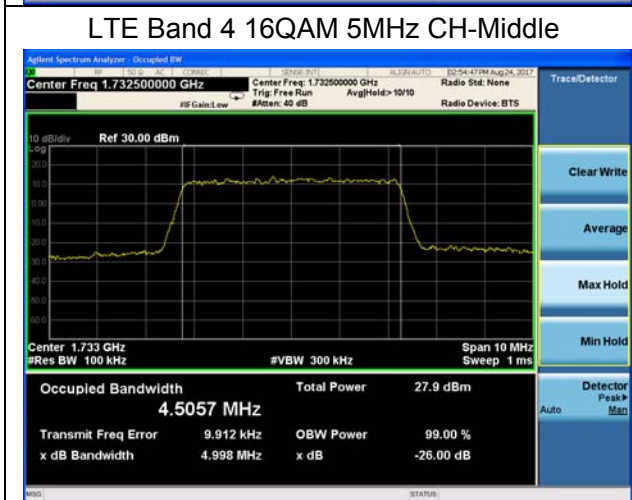
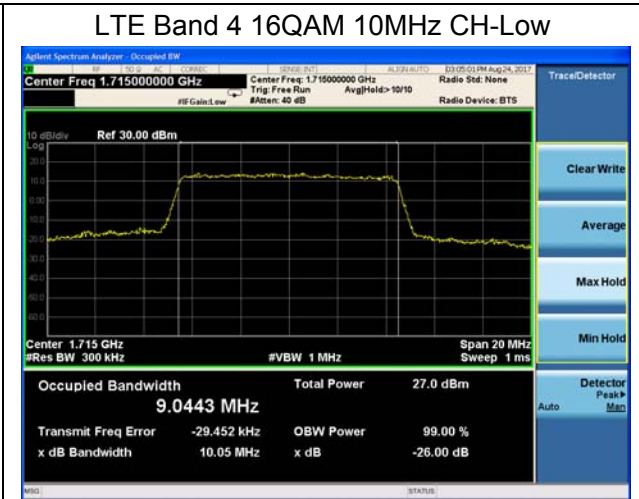
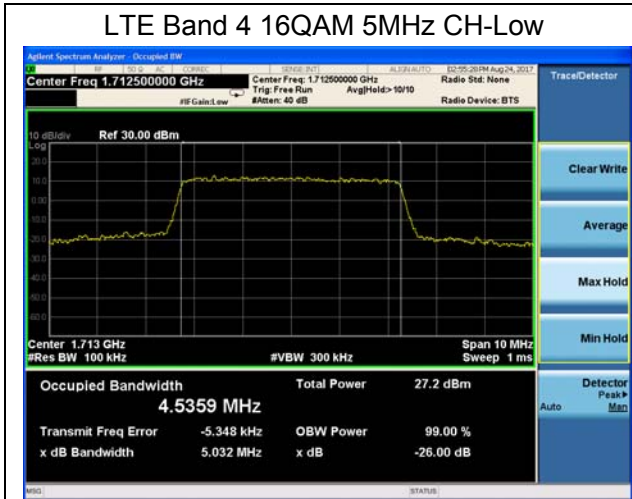
LTE Band 4 QPSK 15MHz CH-High

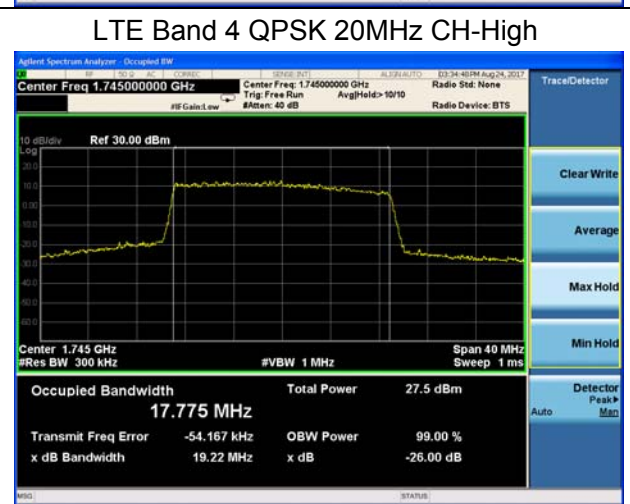
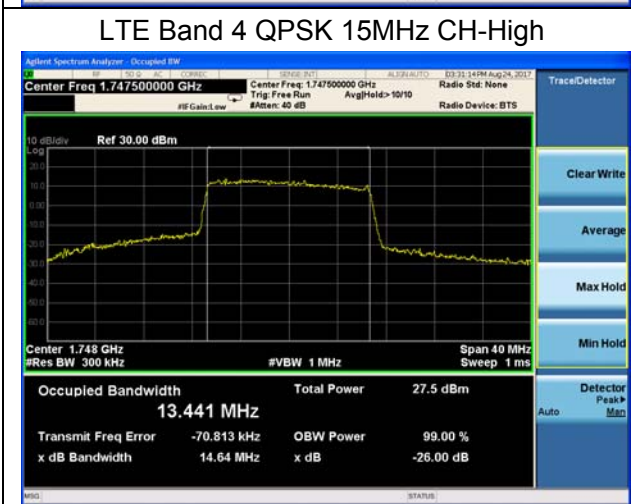
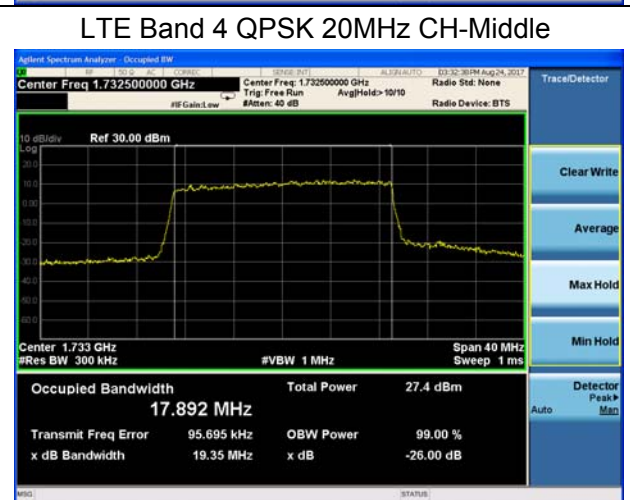
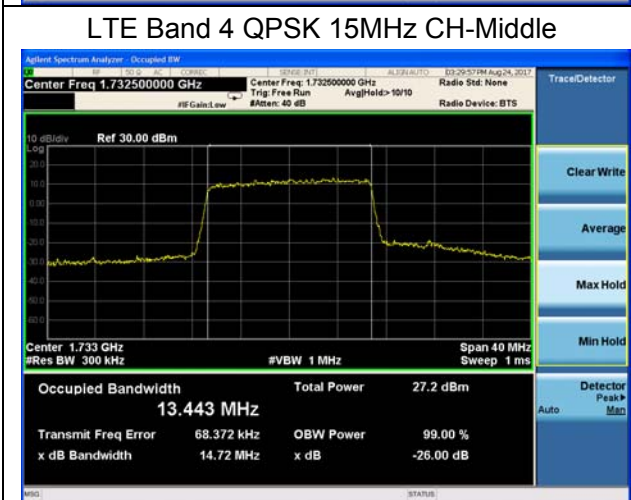
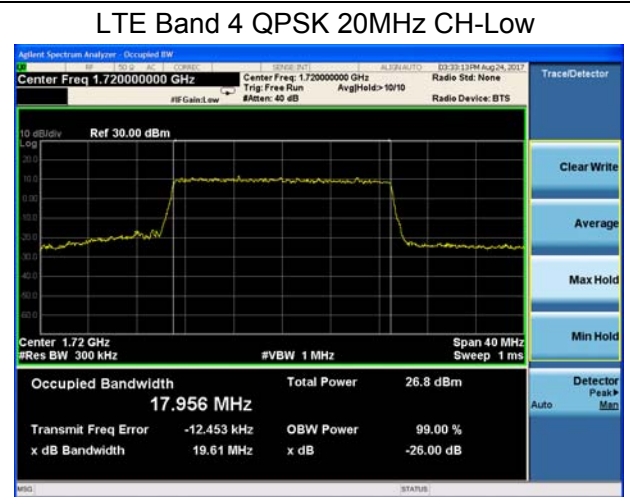
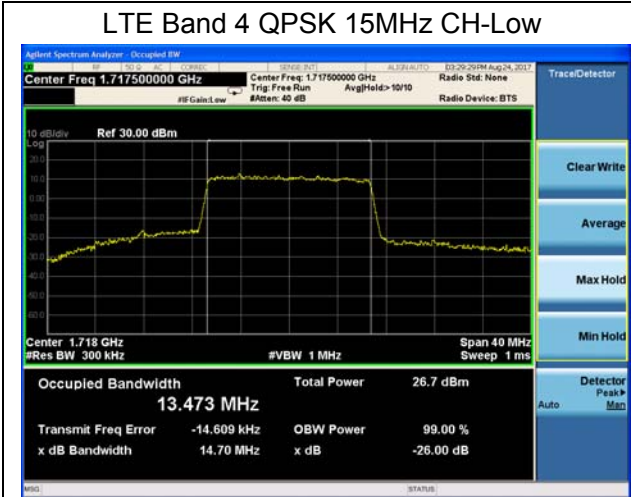


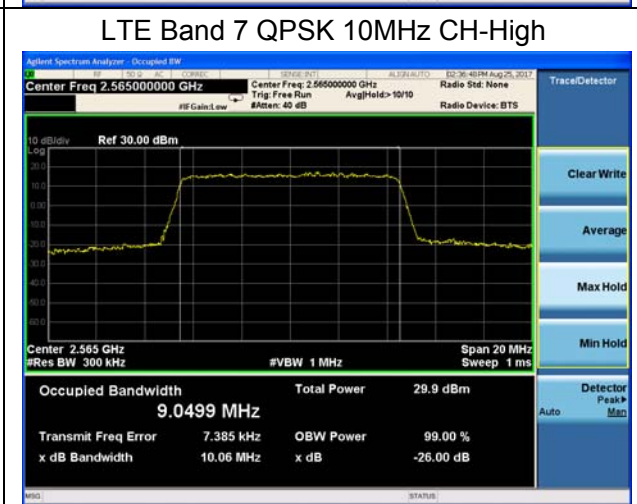
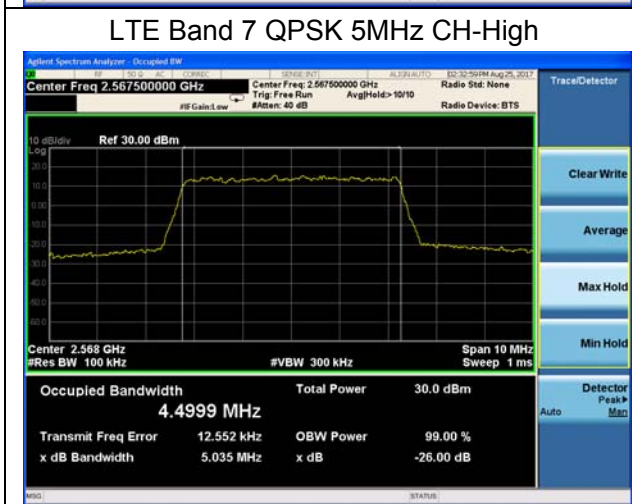
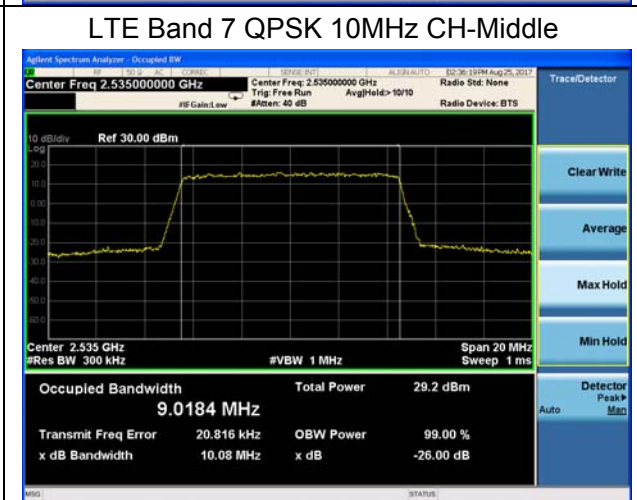
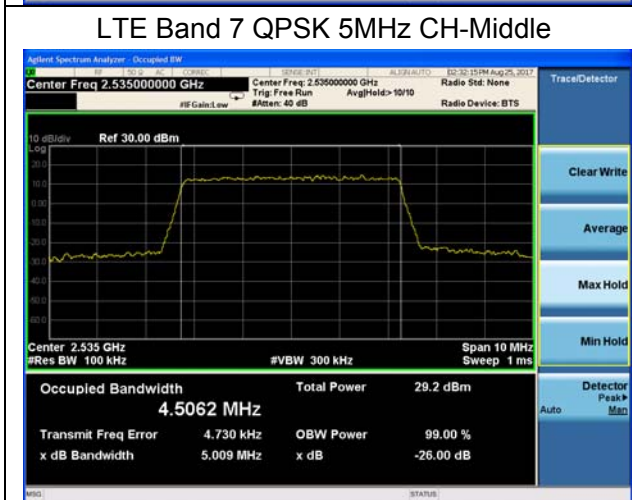
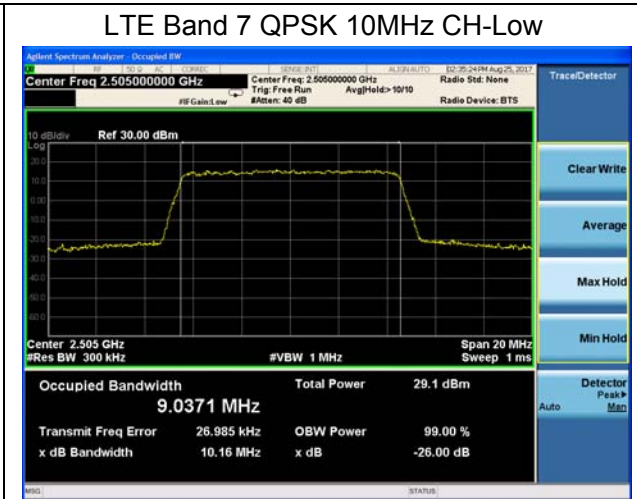
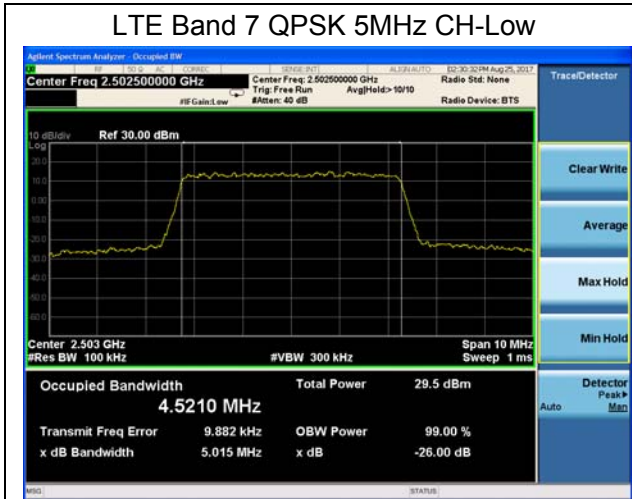
LTE Band 4 QPSK 20MHz CH-High

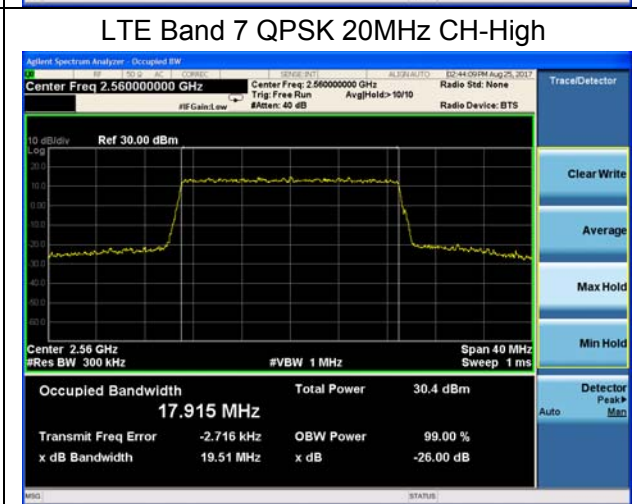
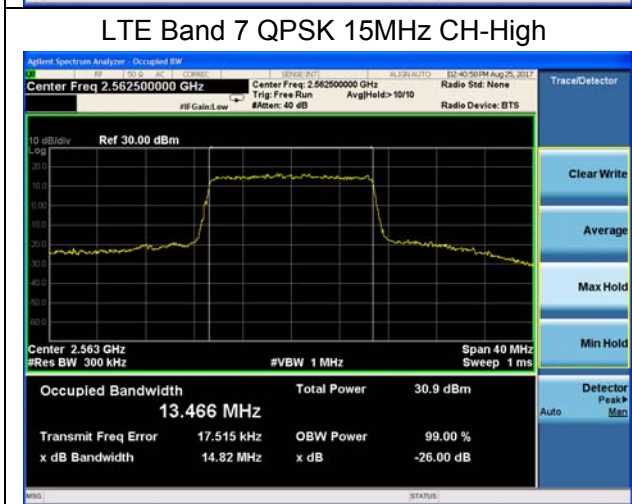
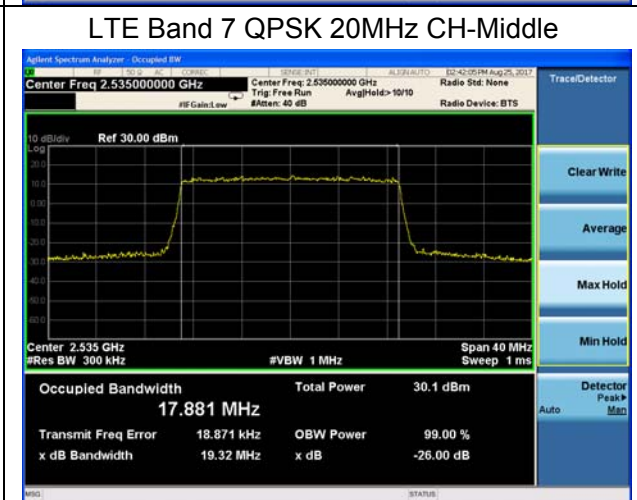
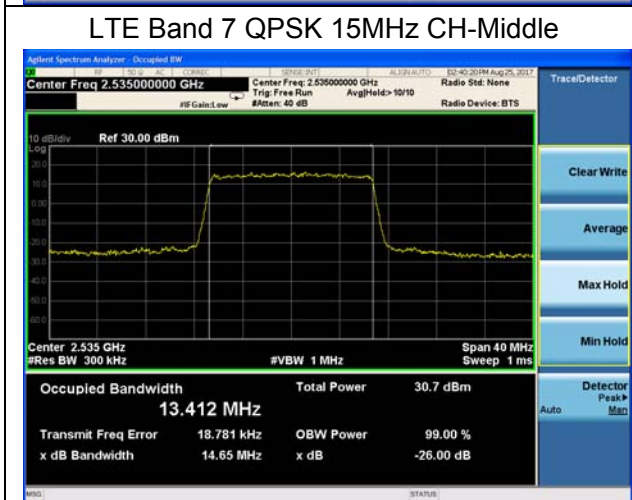
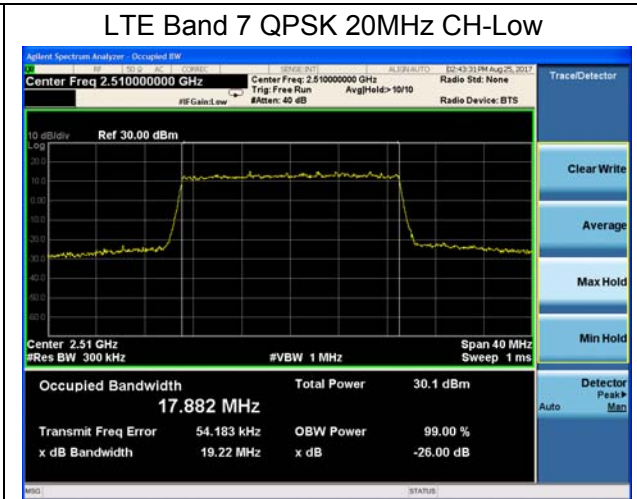
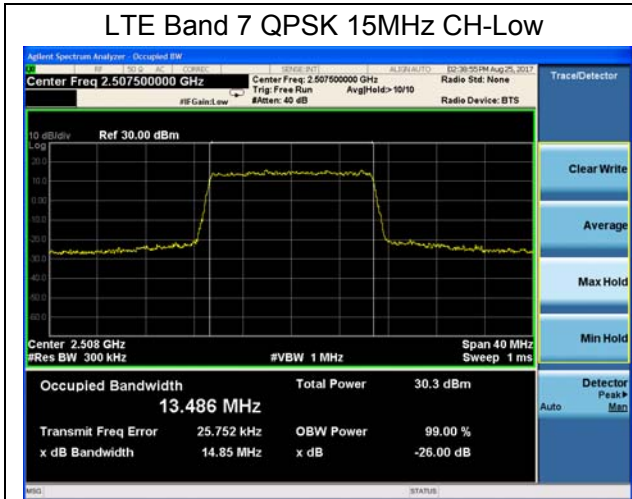


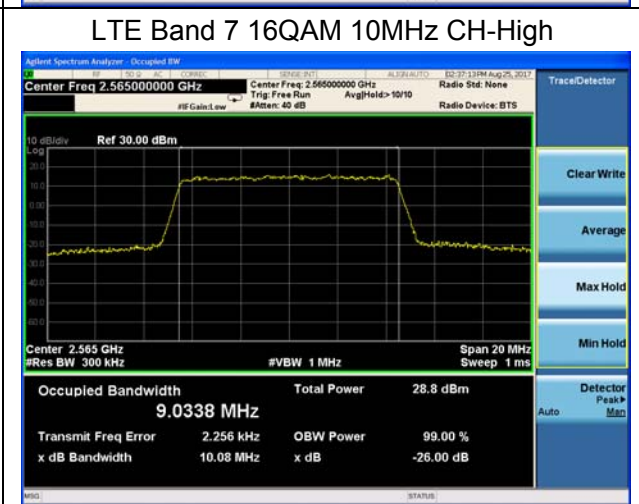
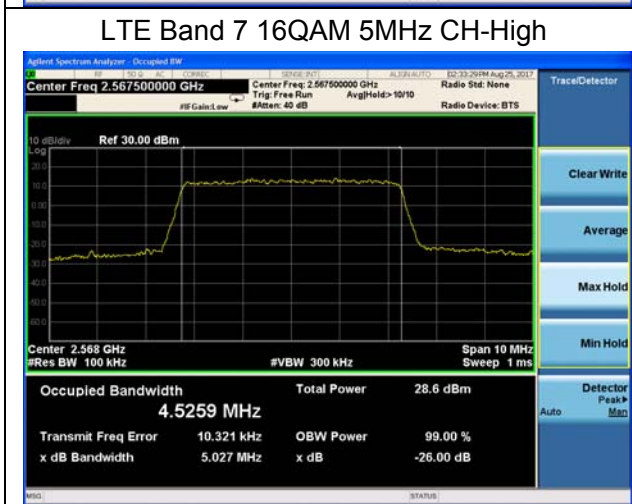
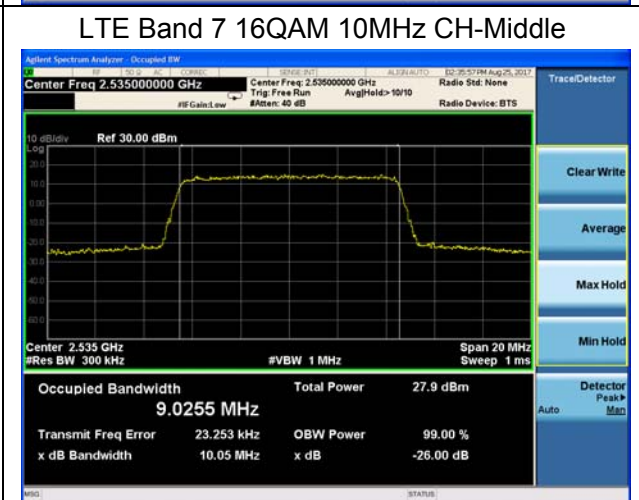
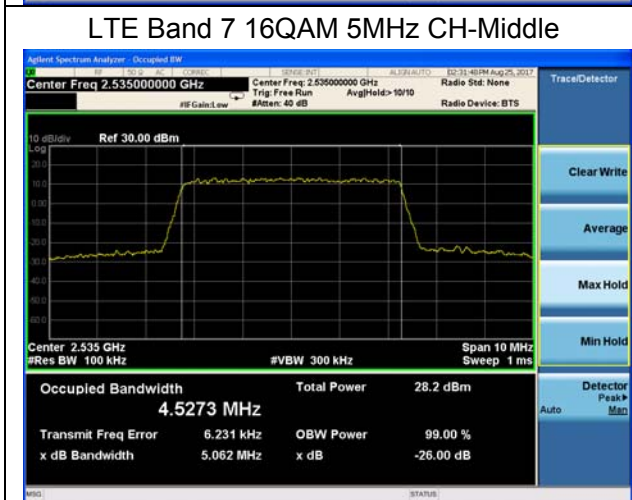
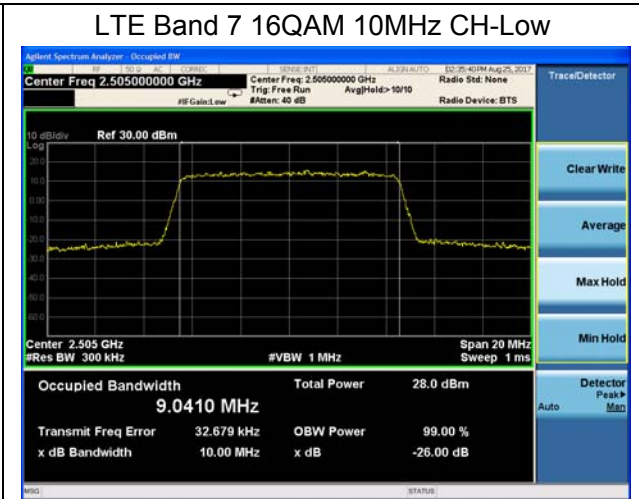
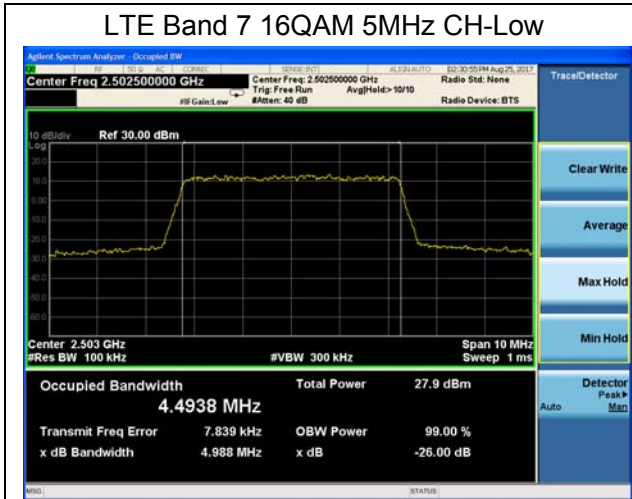


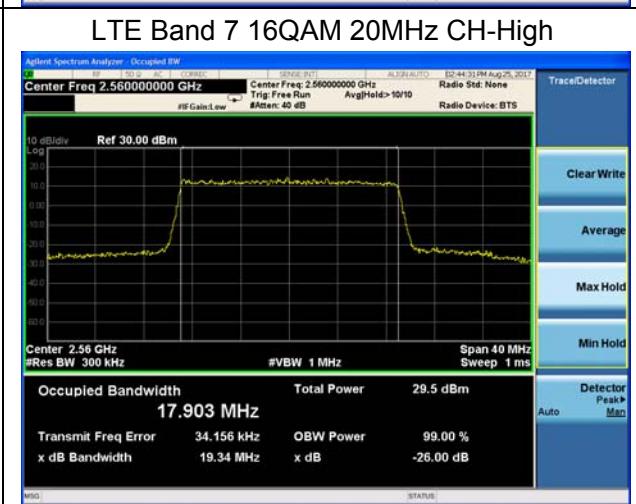
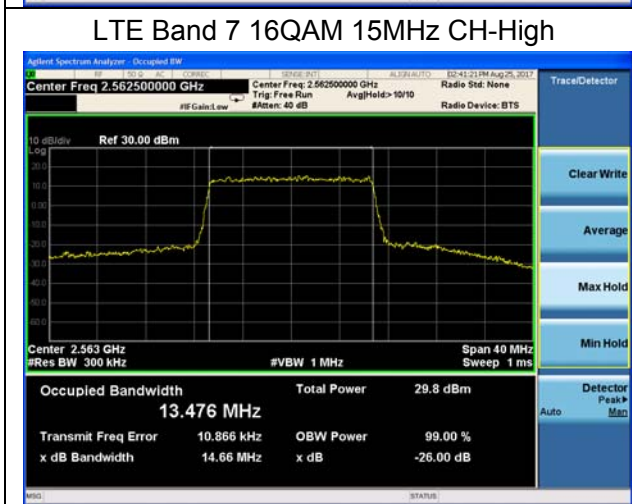
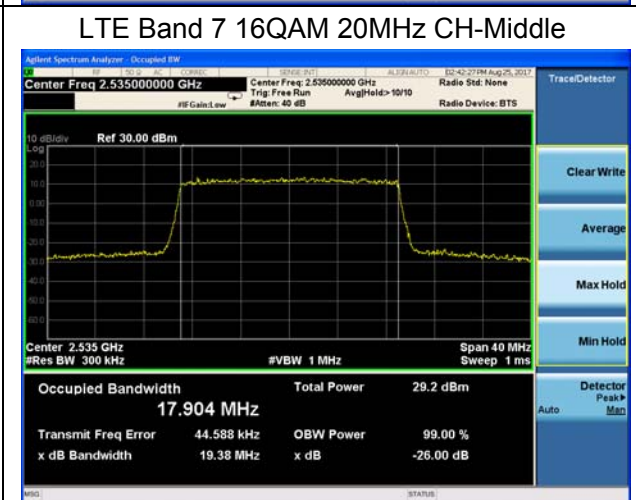
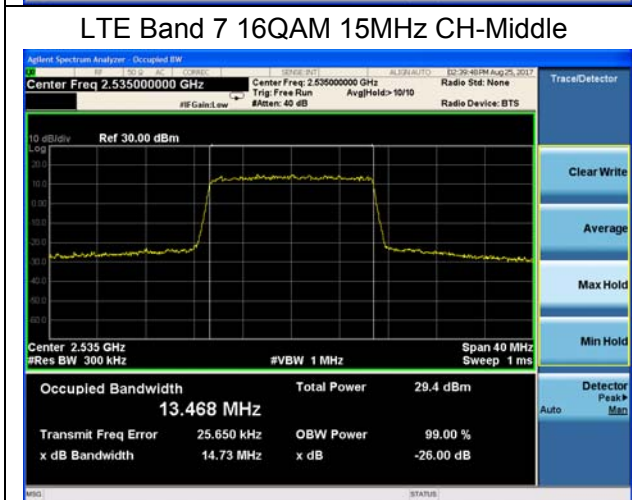
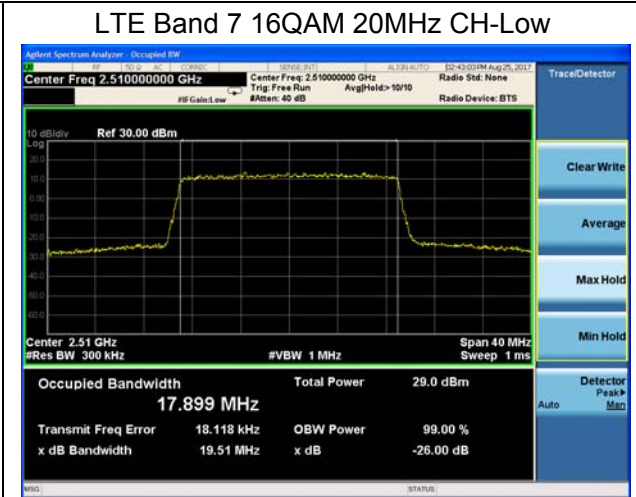
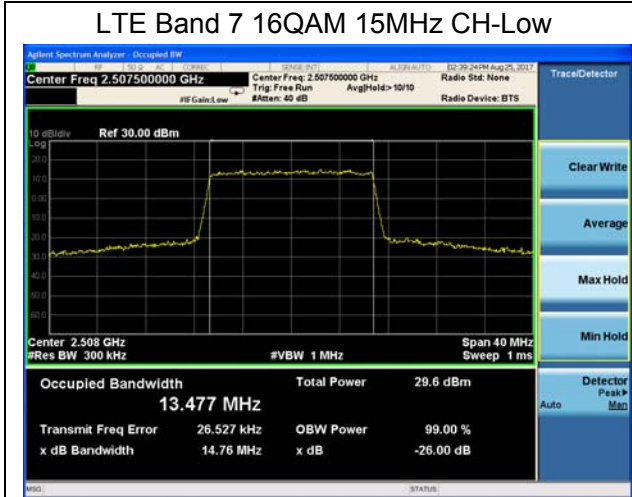






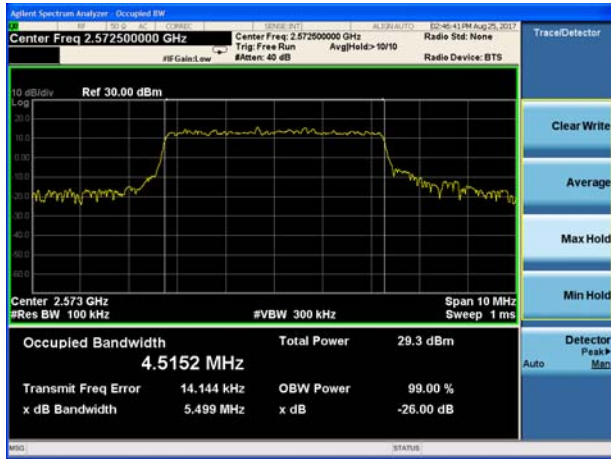




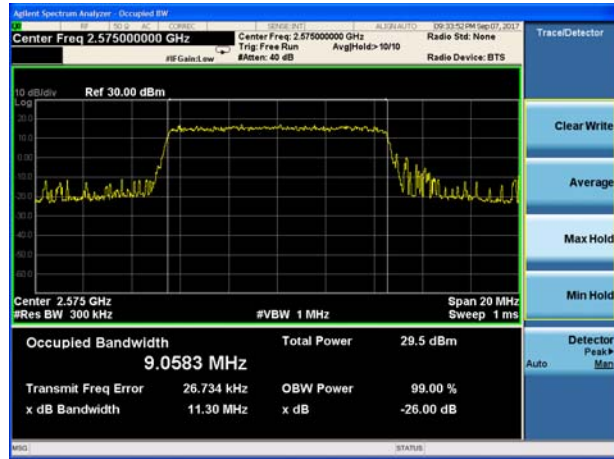




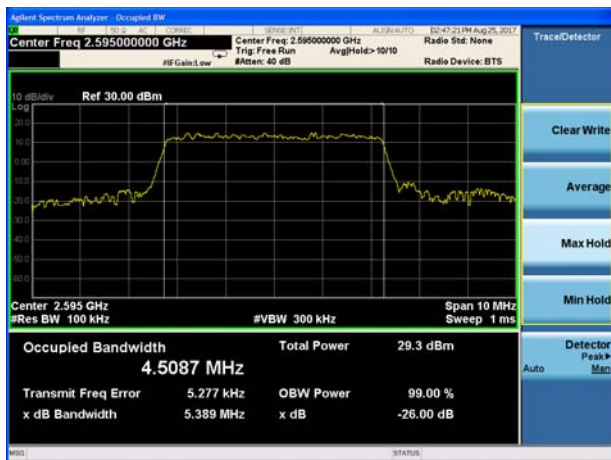
LTE Band 38 QPSK 5MHz CH-Low



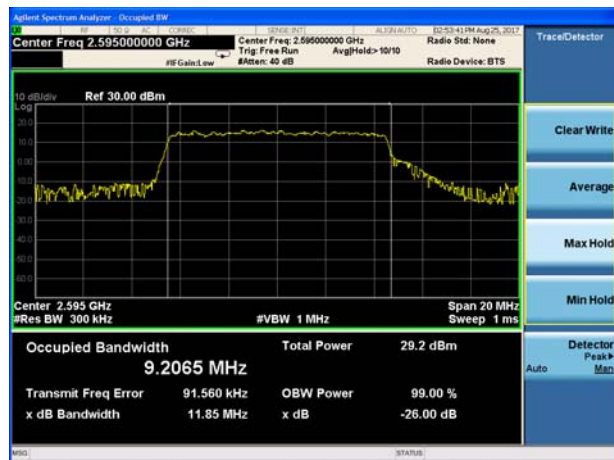
LTE Band 38 QPSK 10MHz CH-Low



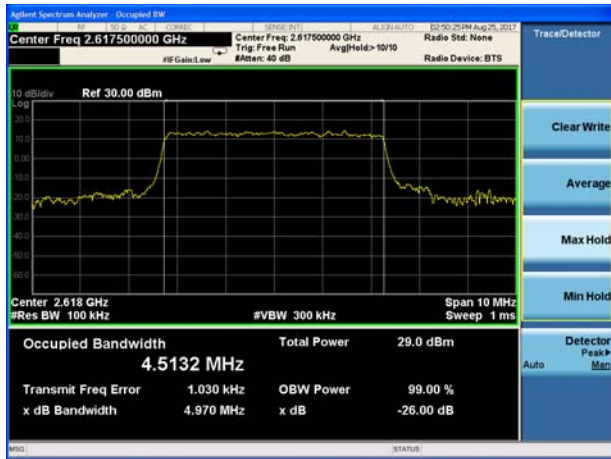
LTE Band 38 QPSK 5MHz CH-Middle



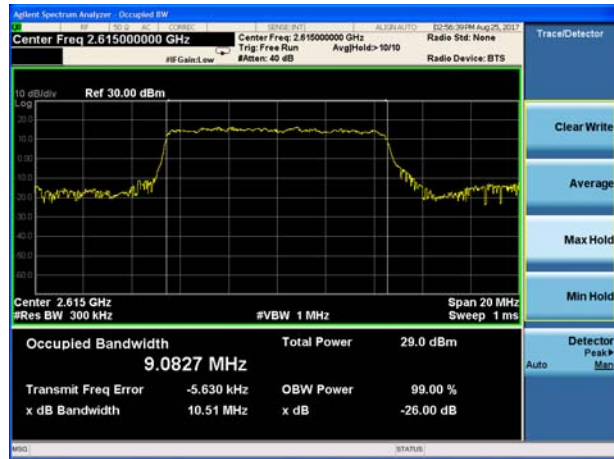
LTE Band 38 QPSK 10MHz CH-Middle

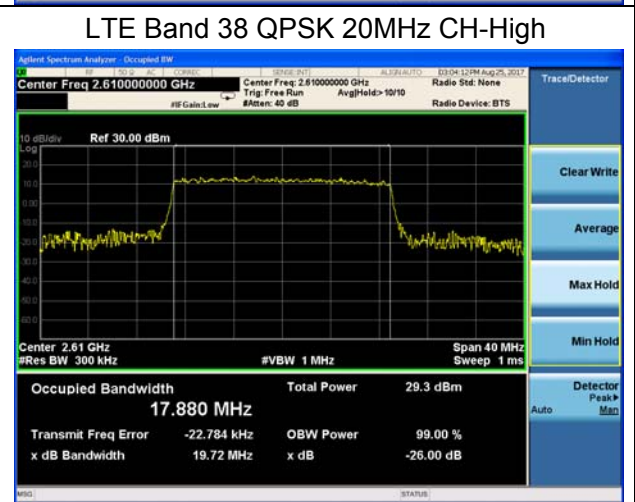
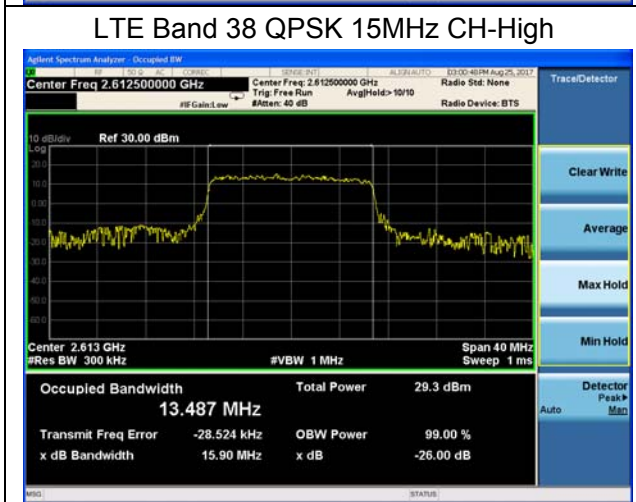
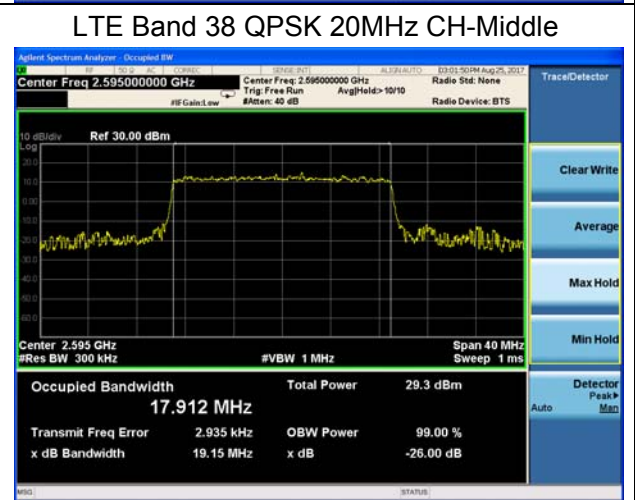
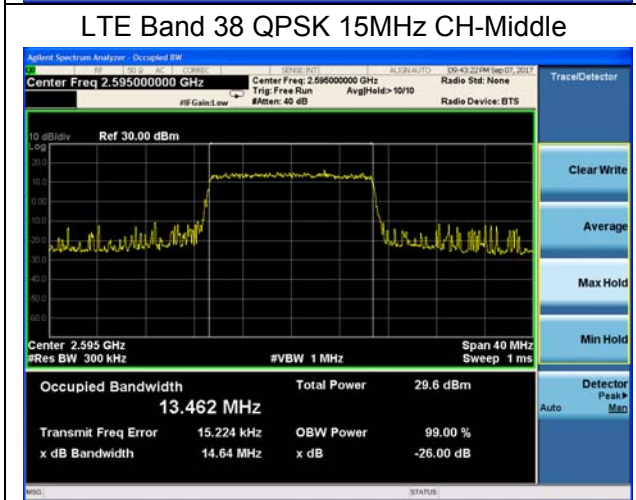
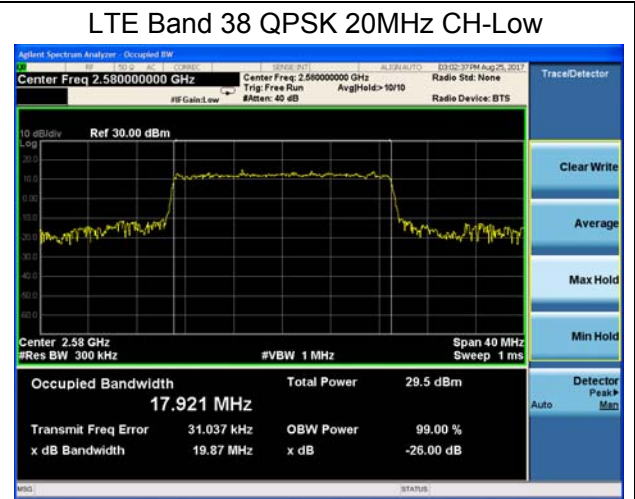
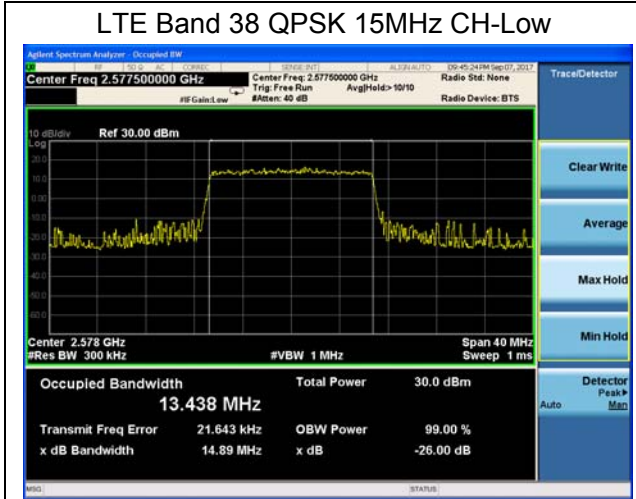


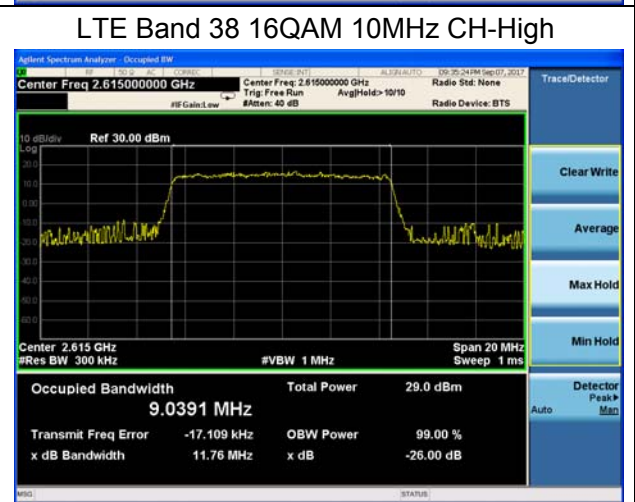
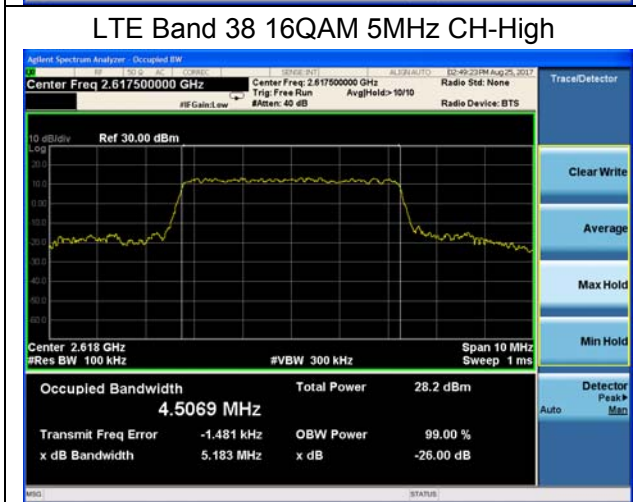
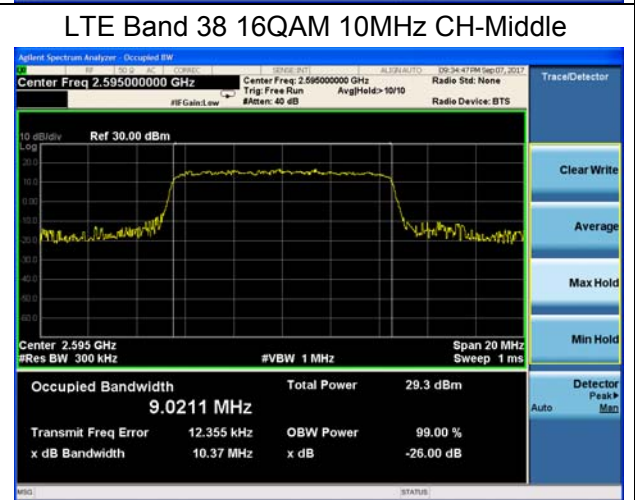
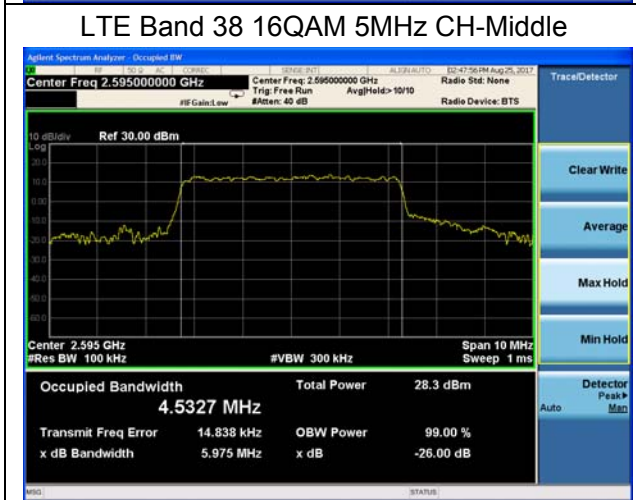
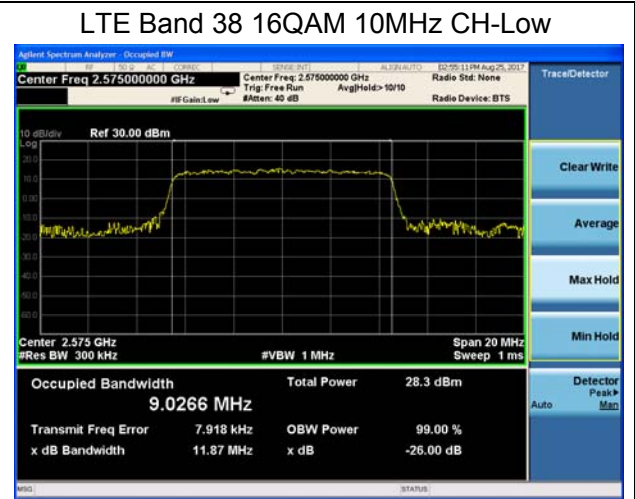
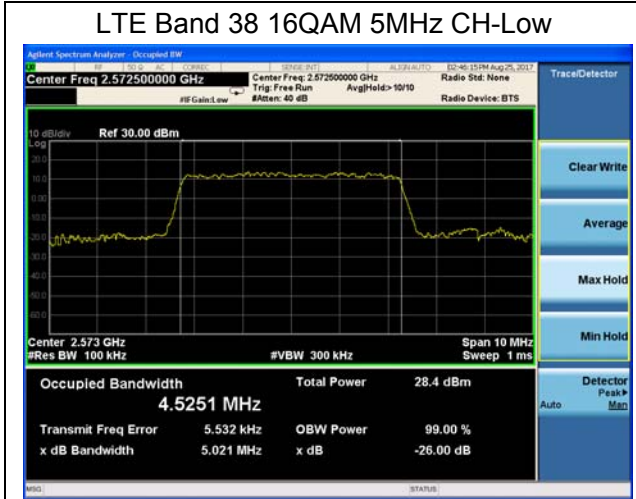
LTE Band 38 QPSK 5MHz CH-High

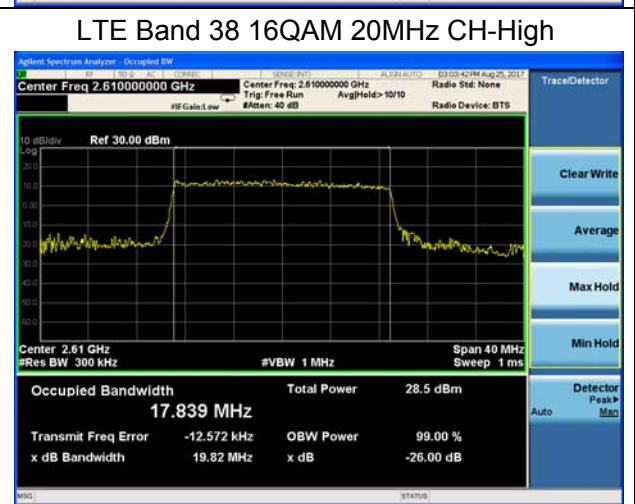
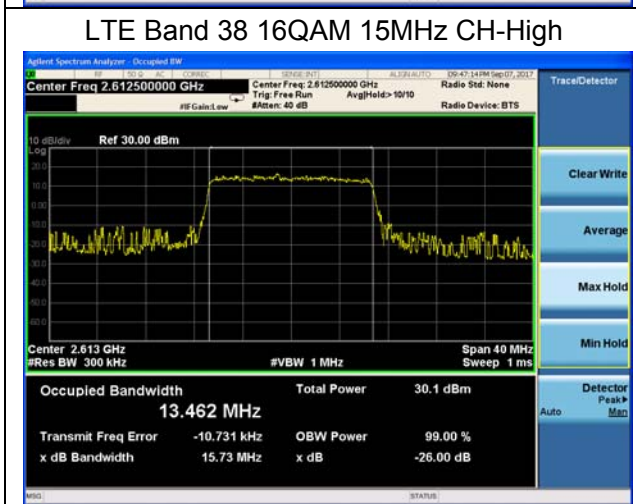
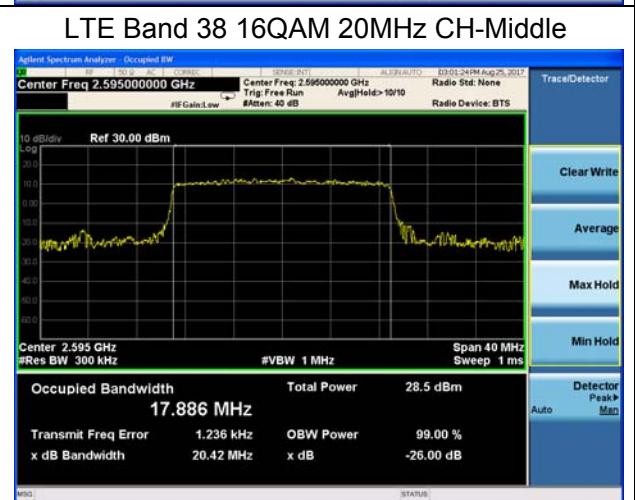
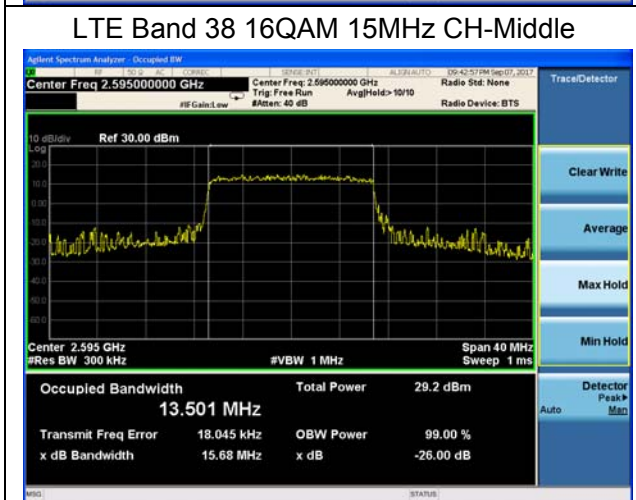
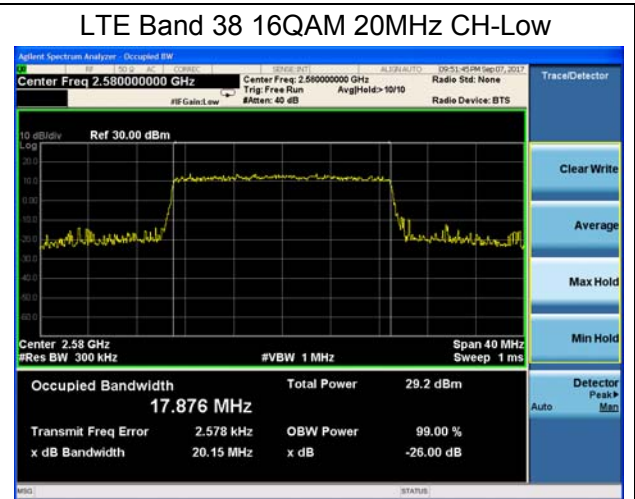
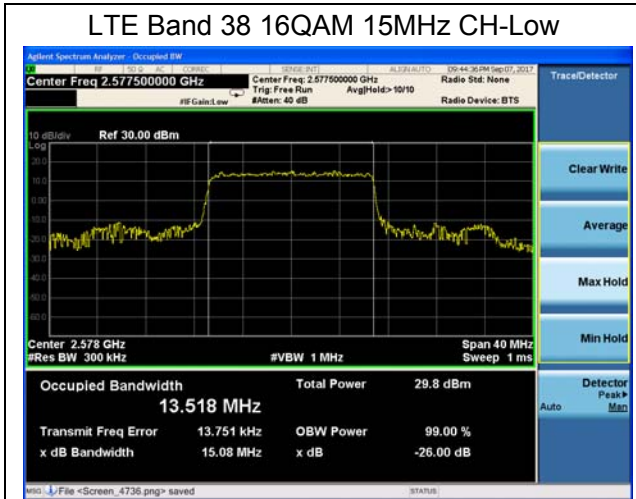


LTE Band 38 QPSK 10MHz CH-High









5.4 Band Edge Compliance

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

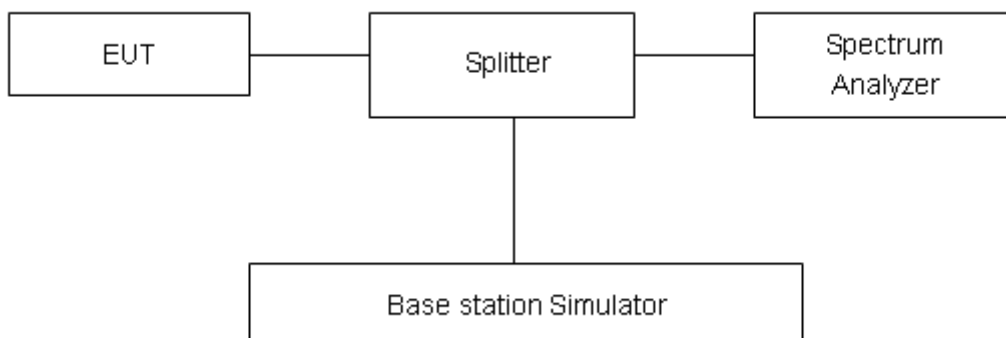
Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured.

The testing follows KDB 971168 v02r02 Section 6.0

- 1.The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. For LTE Band 41 Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
 RBW is set to 15 kHz, VBW is set to 51 kHz for LTE Band 4/ (1.4MHz).
 RBW is set to 30 kHz, VBW is set to 100 kHz for LTE Band 4/ (3MHz).
 RBW is set to 51 kHz, VBW is set to 160 kHz for LTE Band 4/7/38 (5MHz).
 RBW is set to 100 kHz, VBW is set to 300kHz for LTE Band 4/7/38 (10MHz).
 RBW is set to 150 kHz, VBW is set to 510 kHz for LTE Band 4/7/38 (15MHz).
 RBW is set to 200 kHz, VBW is set to 620 kHz for LTE Band 4/7/38 (20MHz) on spectrum analyzer.
4. Set spectrum analyzer with RMS detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. Checked that all the results comply with the emission limit line.

Test Setup



Limits

Rule Part 27.53(h)/ specifies that “ for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee’s frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB”

Part 27.53(m) (4)/ specifies that “for BRS and EBS stations. 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)(4) 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.

Example:

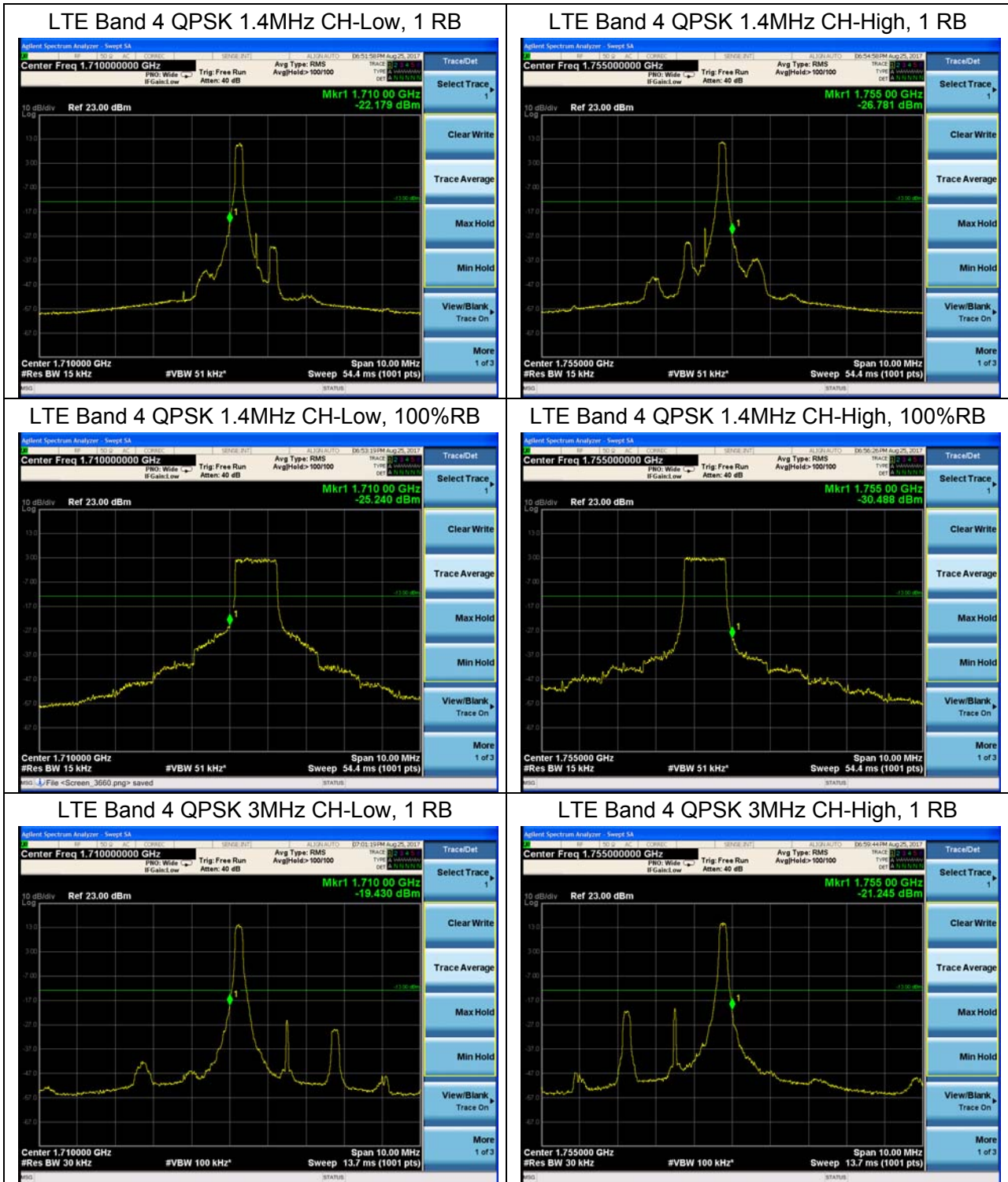
The limit line is derived from $43 + 10 \log (P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10 \log(P)]$ (dB)
 $= [30 + 10 \log (P)]$ (dBm) - $[43 + 10 \log(P)]$ (dB) = -13dBm.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=0.684$ dB.

Test Result

All the test traces in the plots shows the test results clearly.





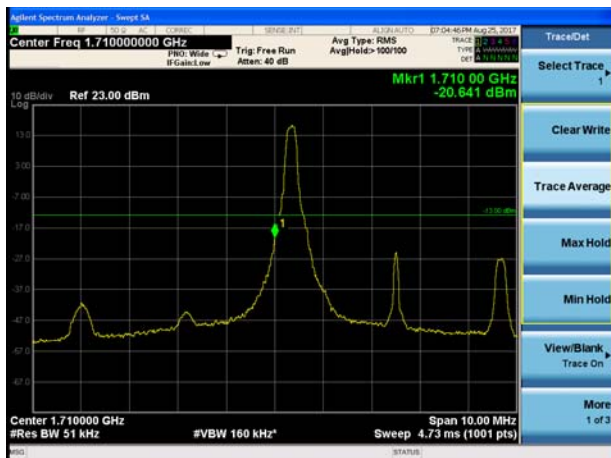
LTE Band 4 QPSK 3MHz CH-Low, 100%RB



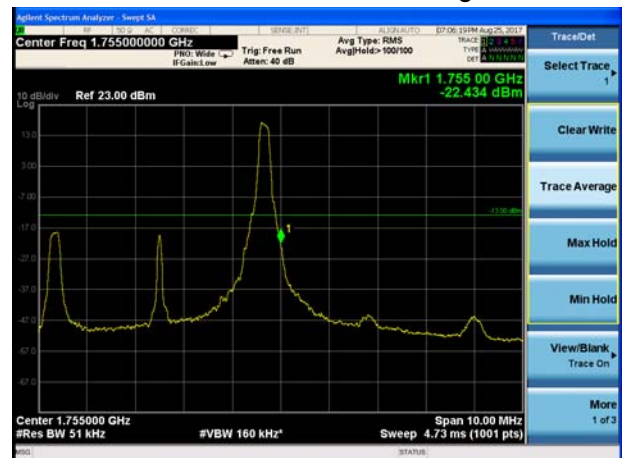
LTE Band 4 QPSK 3MHz CH-High, 100%RB



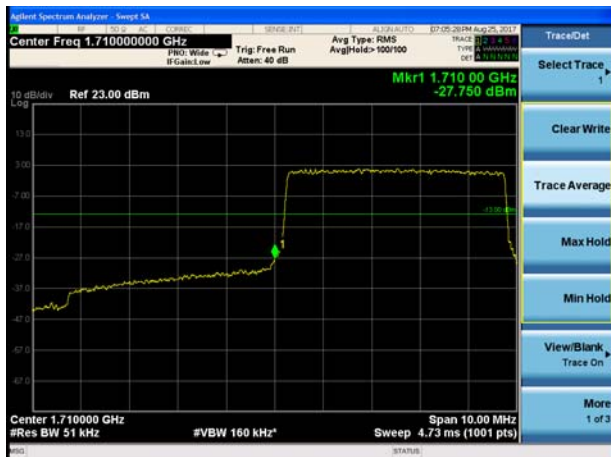
LTE Band 4 QPSK 5MHz CH-Low, 1 RB



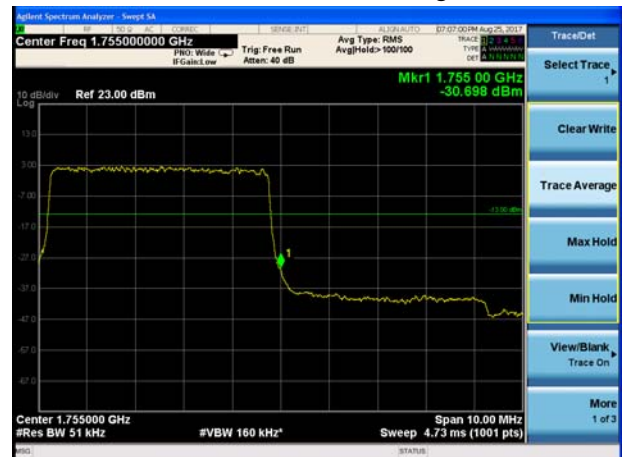
LTE Band 4 QPSK 5MHz CH-High, 1 RB

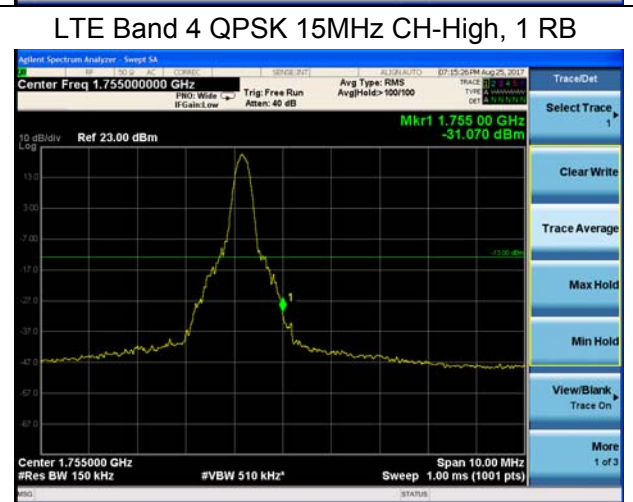
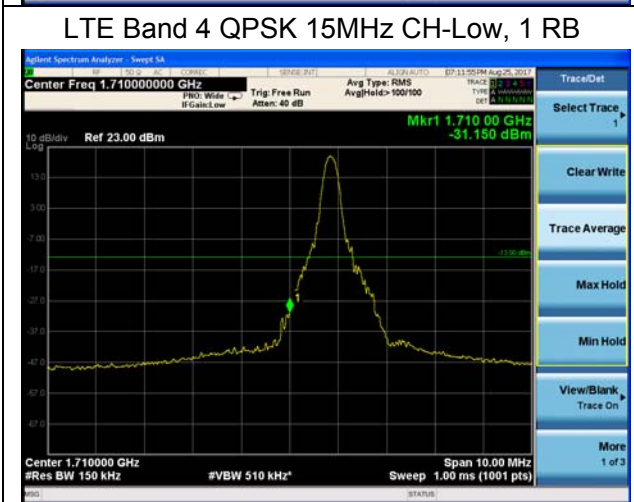
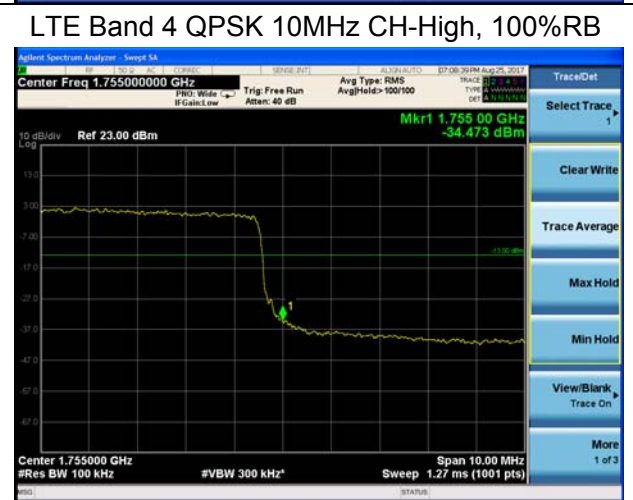
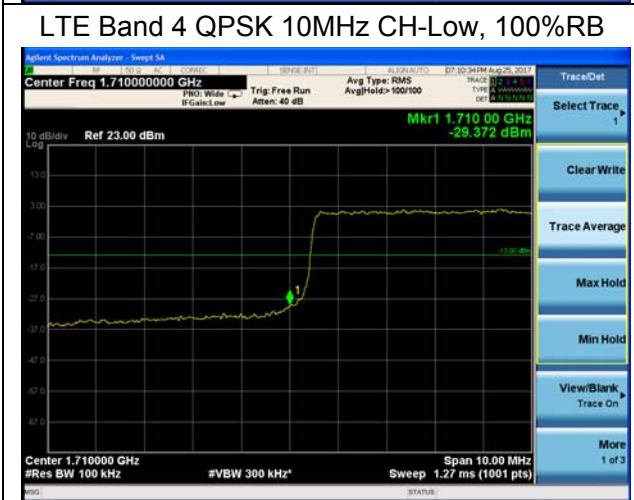
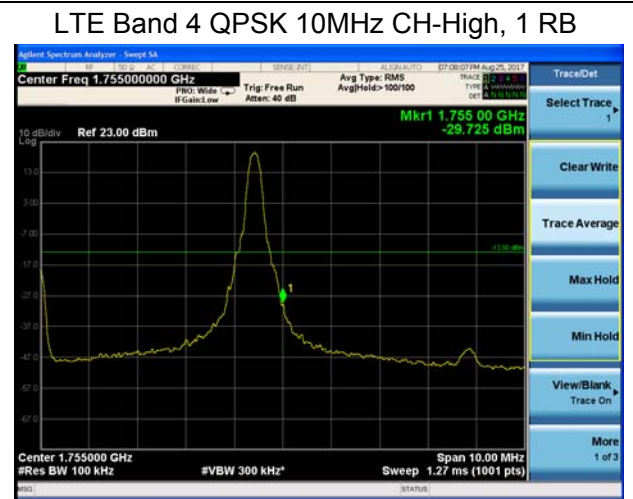
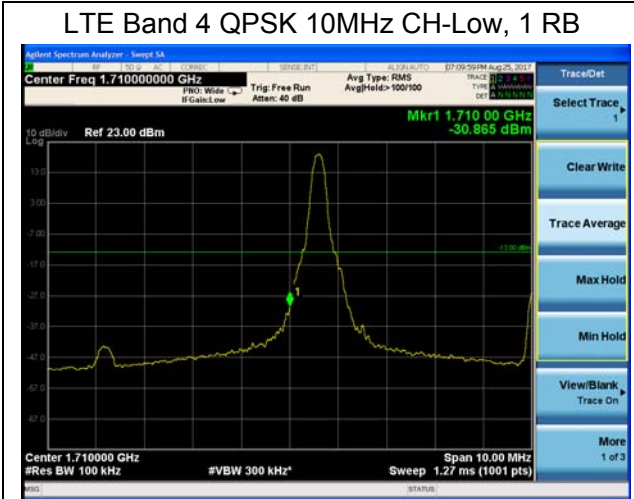


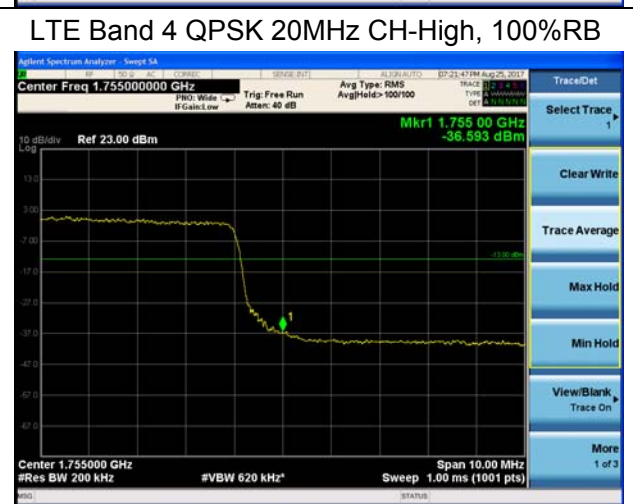
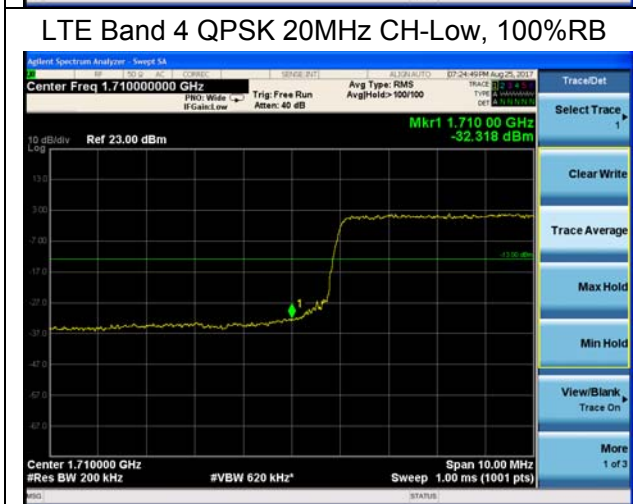
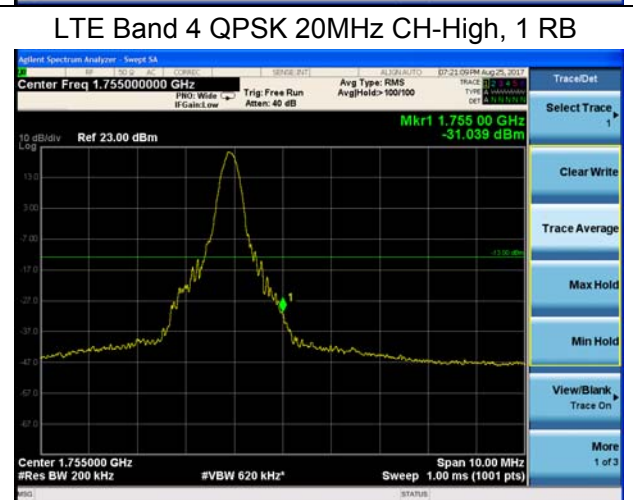
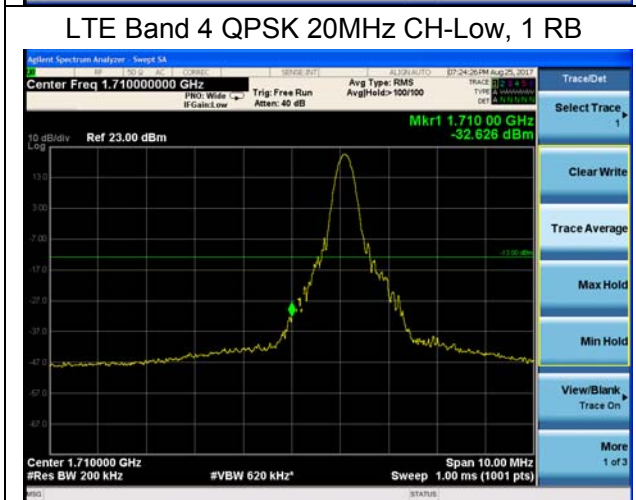
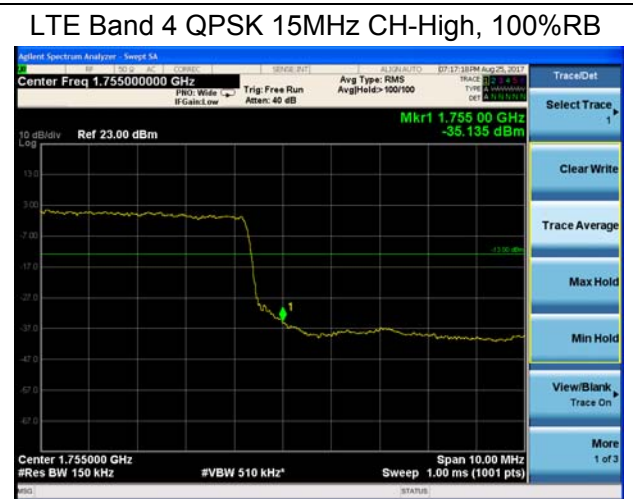
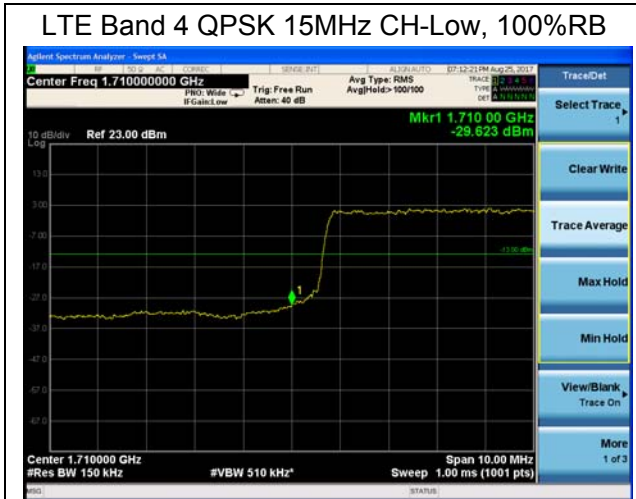
LTE Band 4 QPSK 5MHz CH-Low, 100%RB

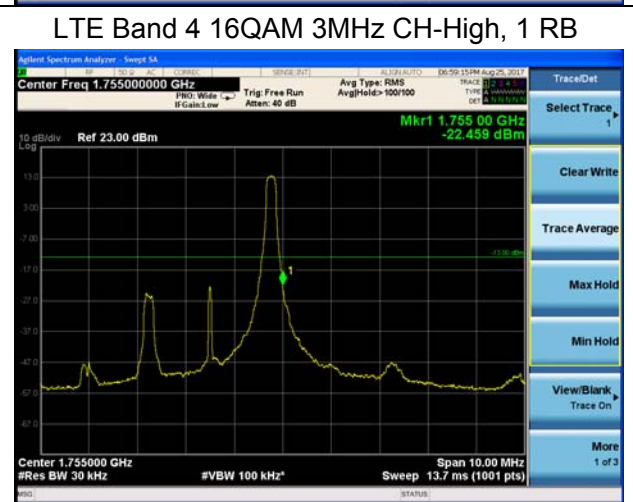
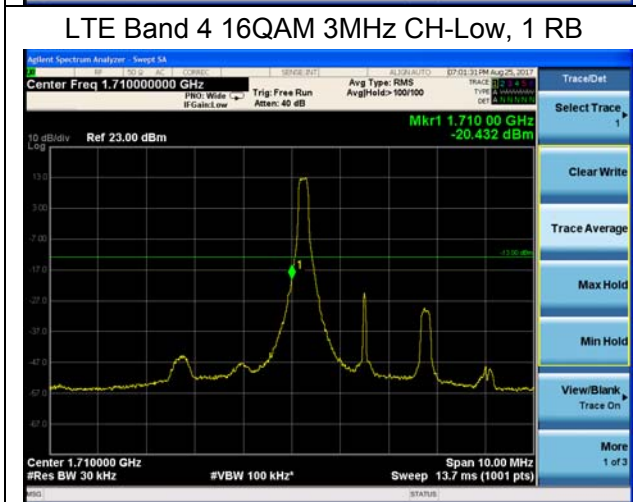
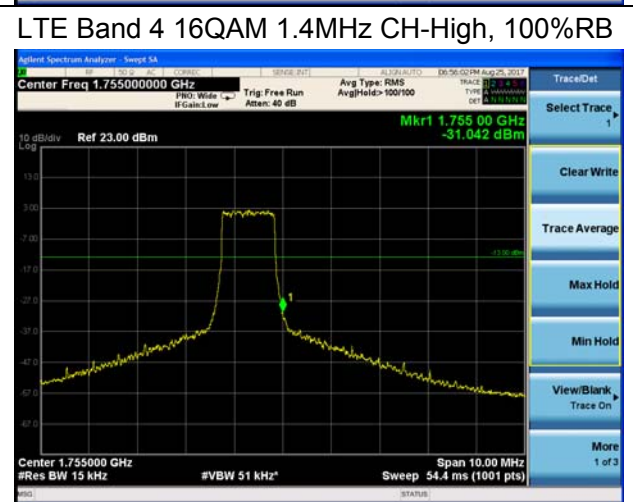
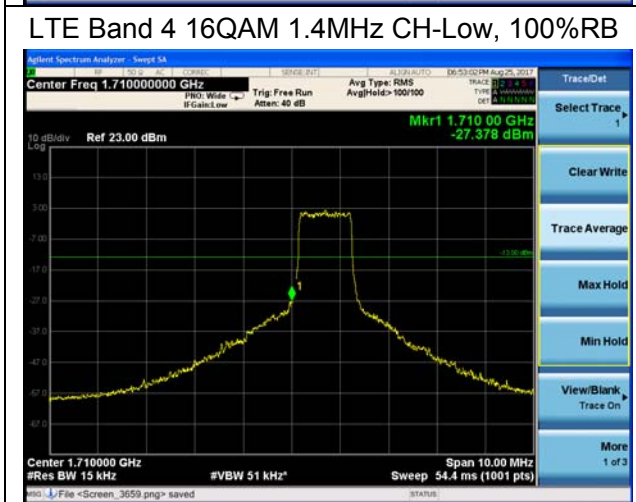
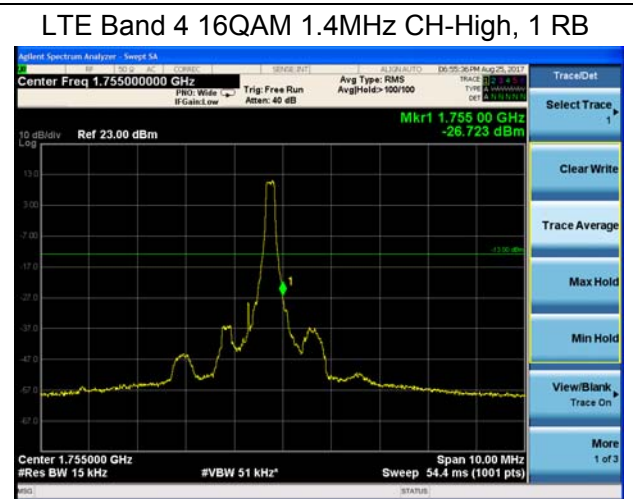
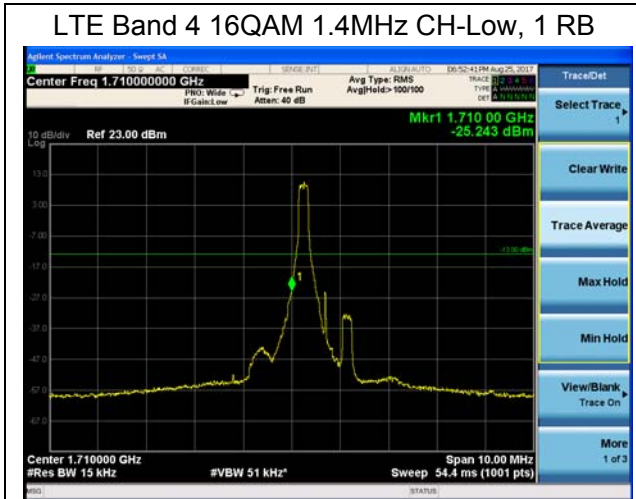


LTE Band 4 QPSK 5MHz CH-High, 100%RB











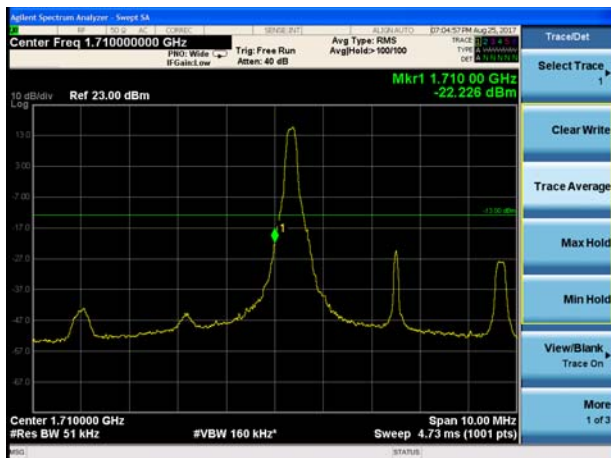
LTE Band 4 16QAM 3MHz CH-Low, 100%RB



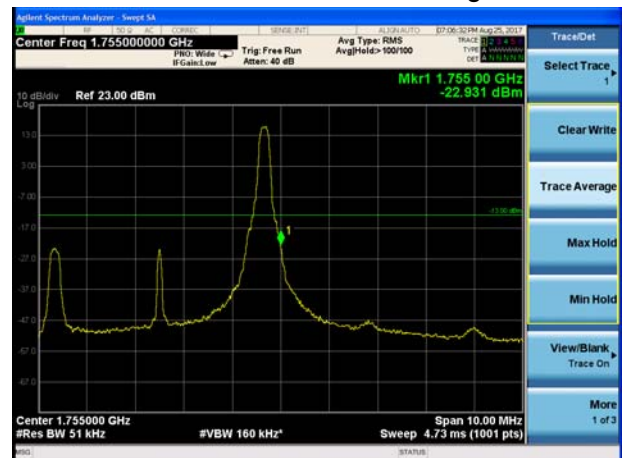
LTE Band 4 16QAM 3MHz CH-High, 100%RB



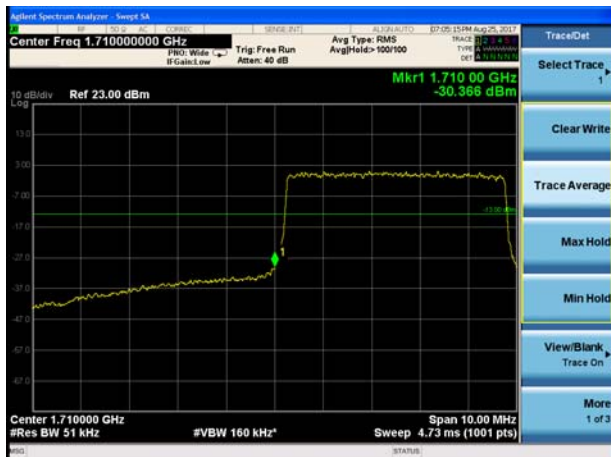
LTE Band 4 16QAM 5MHz CH-Low, 1 RB



LTE Band 4 16QAM 5MHz CH-High, 1 RB

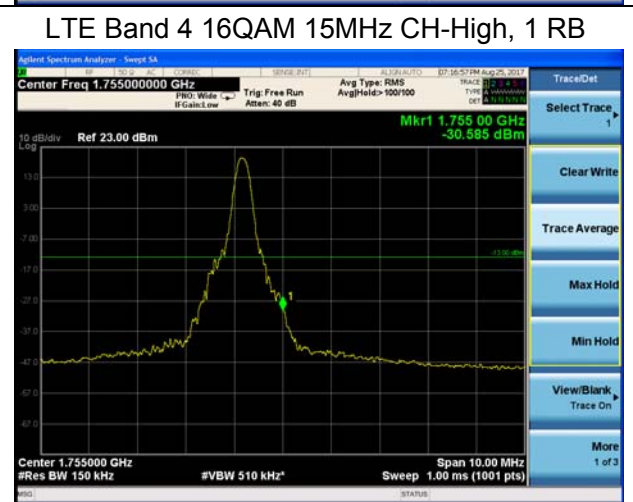
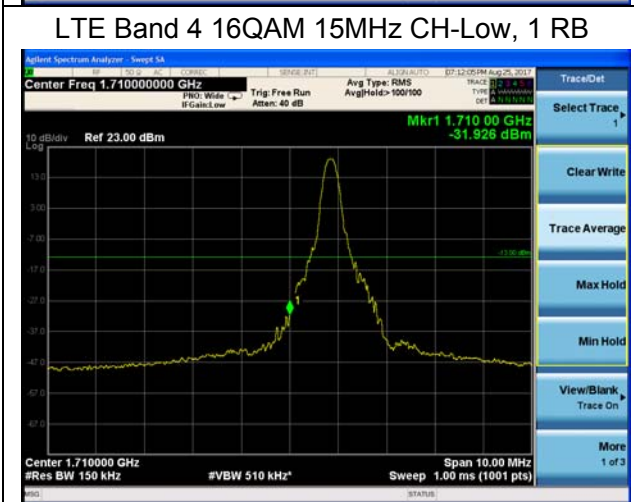
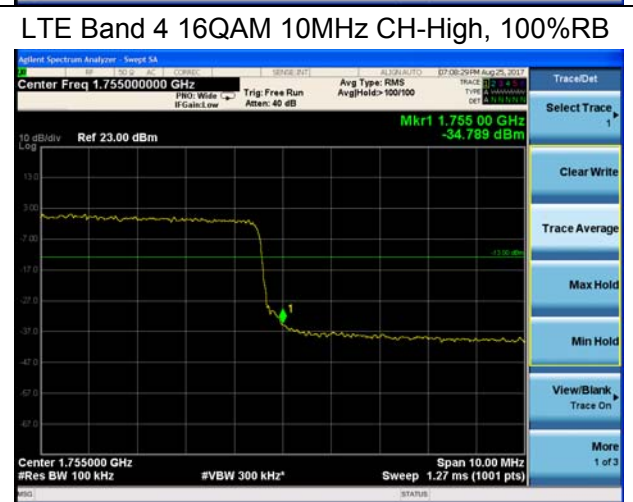
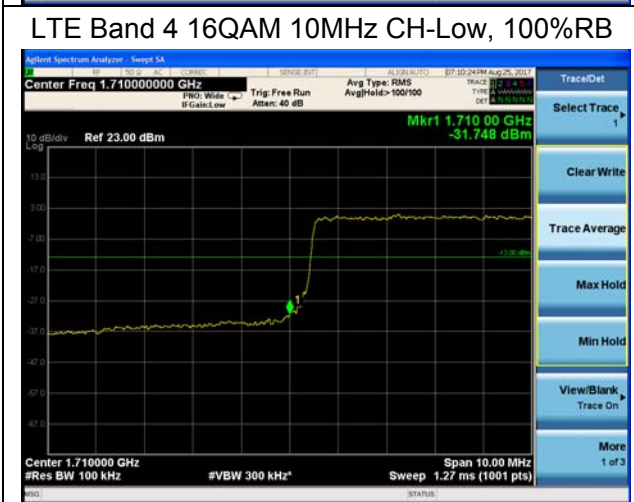
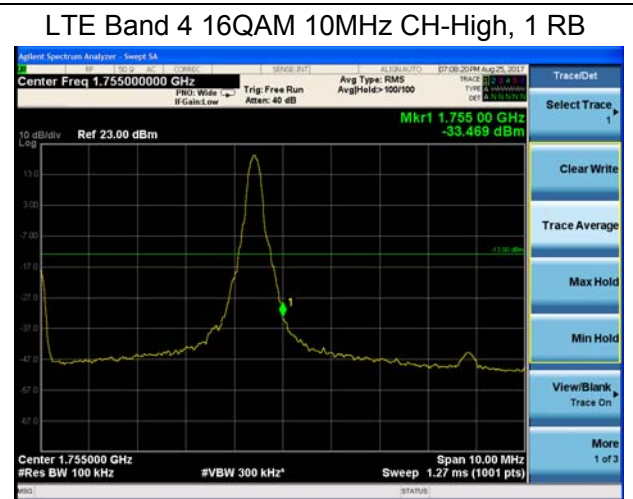
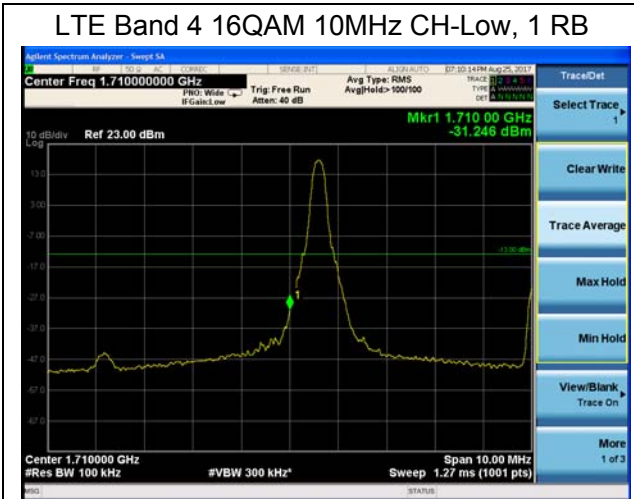


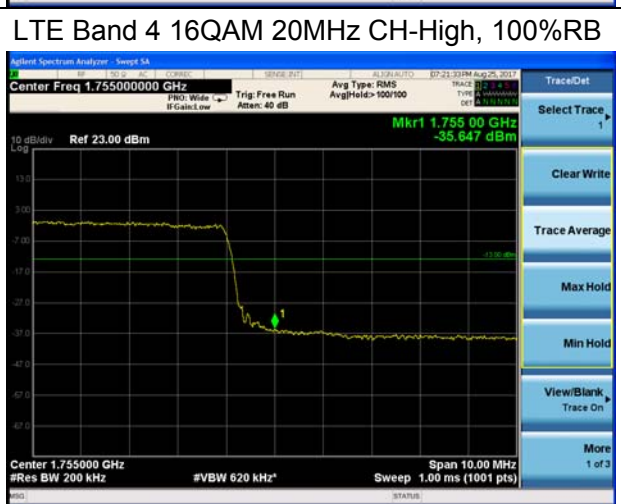
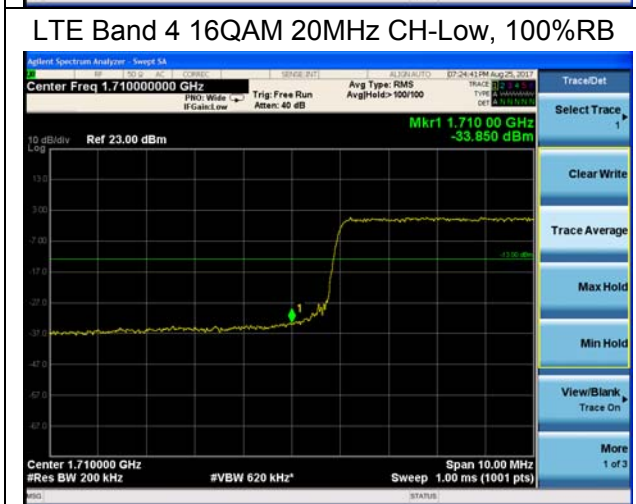
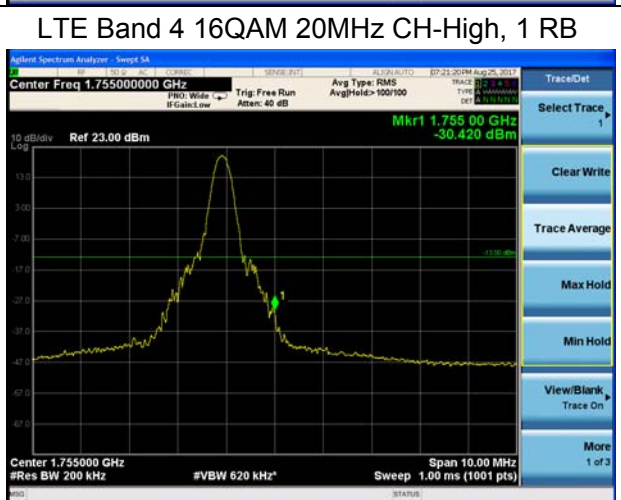
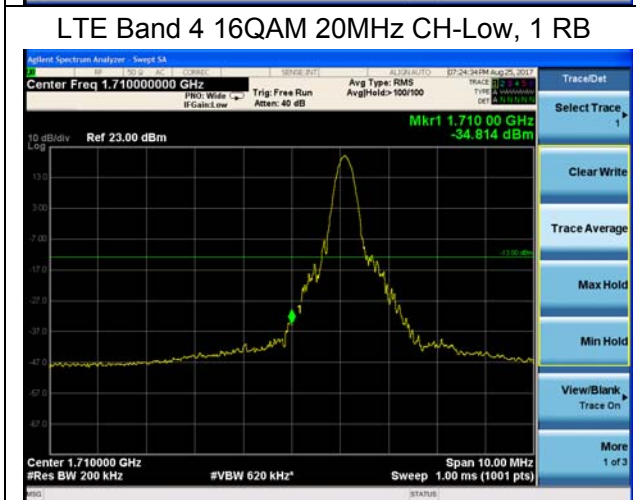
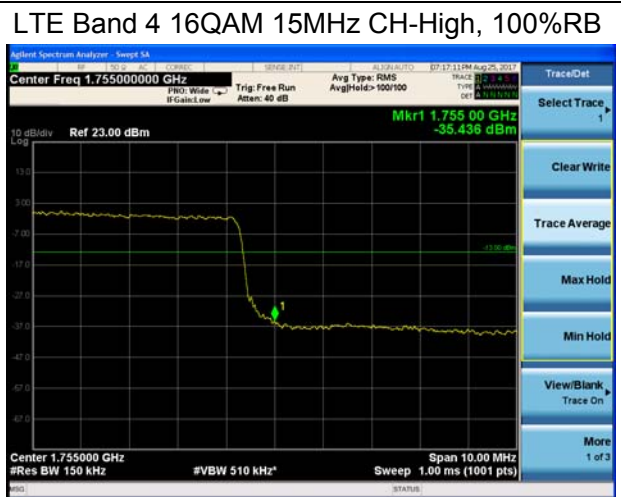
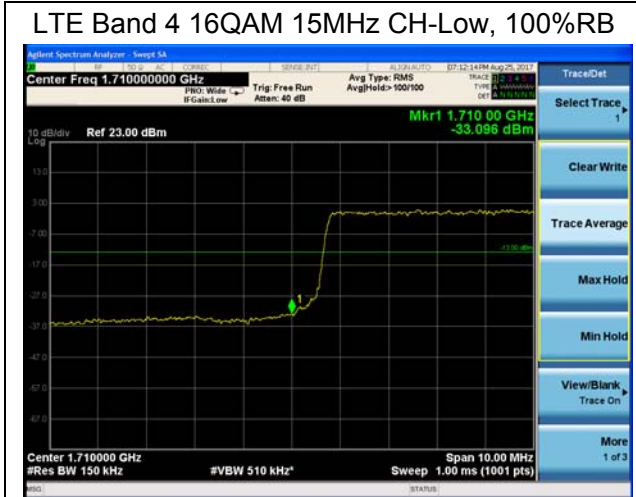
LTE Band 4 16QAM 5MHz CH-Low, 100%RB



LTE Band 4 16QAM 5MHz CH-High, 100%RB

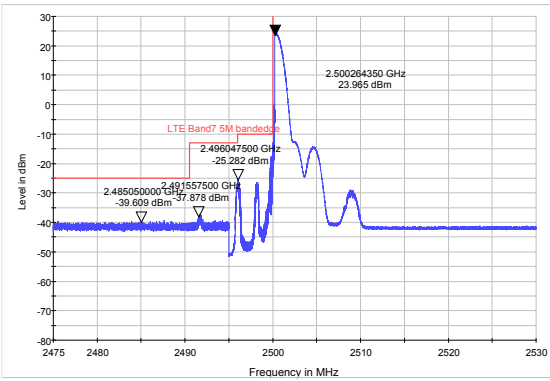




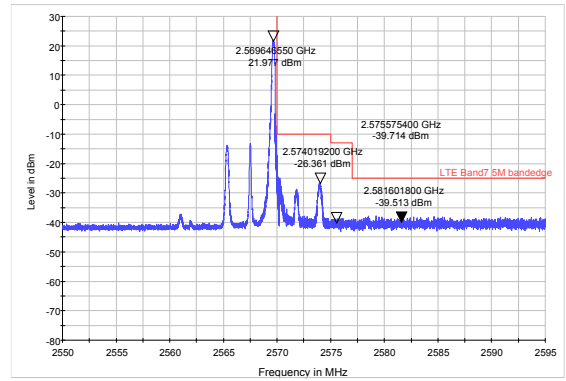




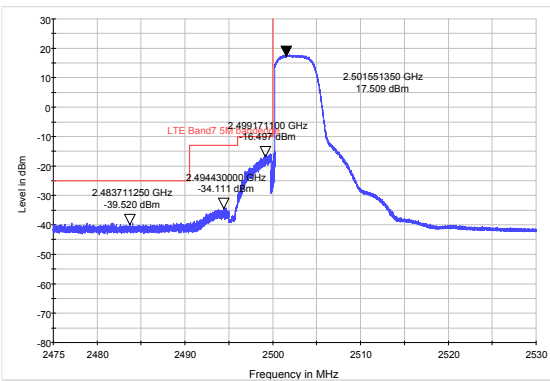
LTE Band 7 QPSK 5MHz CH-Low, 1 RB



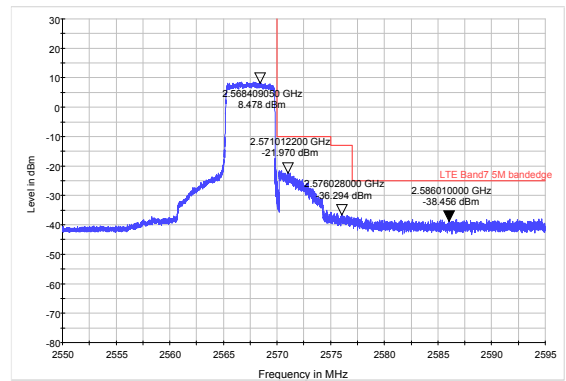
LTE Band 7 QPSK 5MHz CH-High, 1 RB



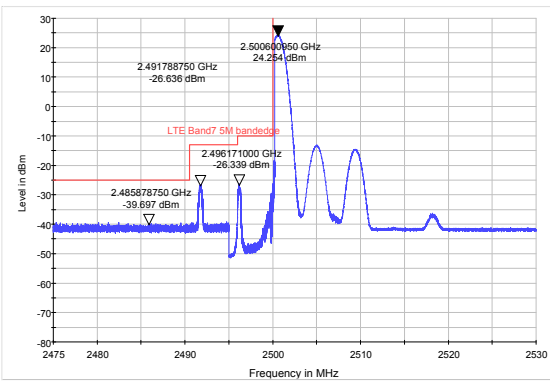
LTE Band 7 QPSK 5MHz CH-Low, 100%RB



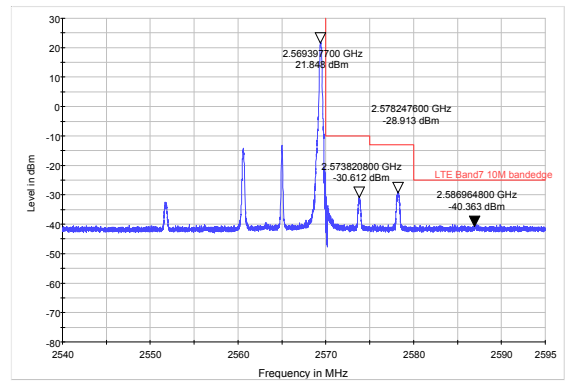
LTE Band 7 QPSK 5MHz CH-High, 100%RB



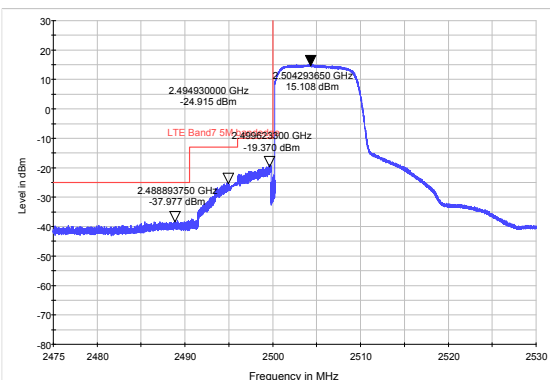
LTE Band 7 QPSK 10MHz CH-Low, 1 RB



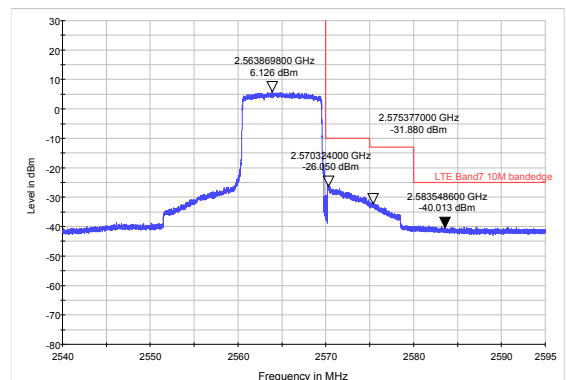
LTE Band 7 QPSK 10MHz CH-High, 1 RB



LTE Band 7 QPSK 10MHz CH-Low, 100%RB

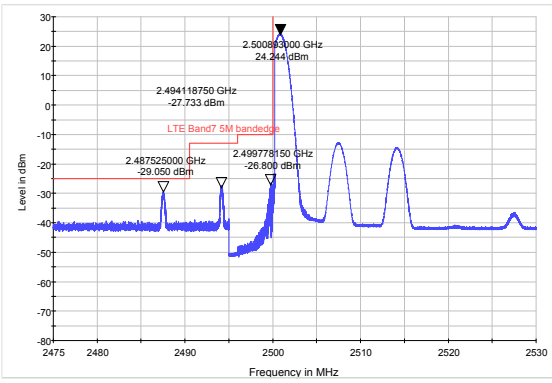


LTE Band 7 QPSK 10MHz CH-High, 100%RB

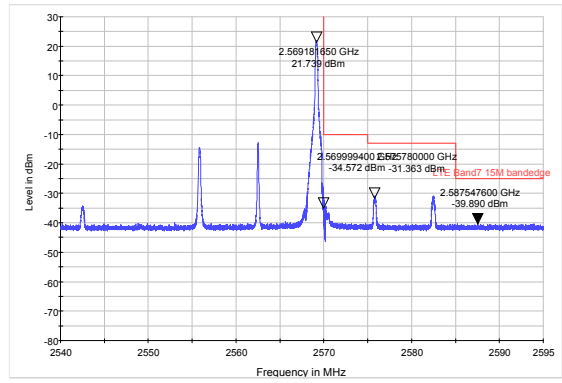




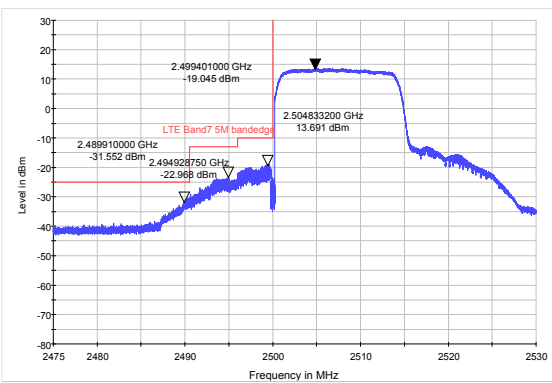
LTE Band 7 QPSK 15MHz CH-Low, 1 RB



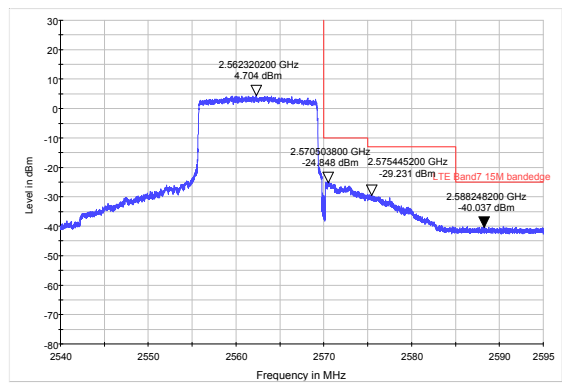
LTE Band 7 QPSK 15MHz CH-High, 1 RB



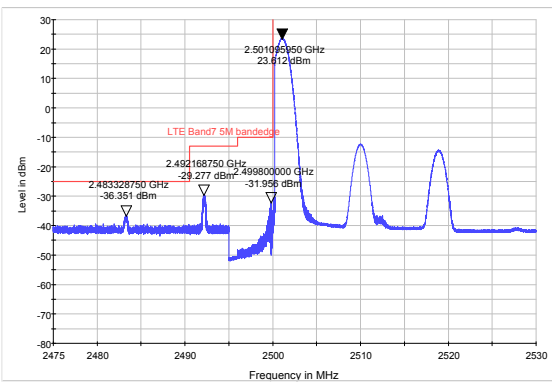
LTE Band 7 QPSK 15MHz CH-Low, 100%RB



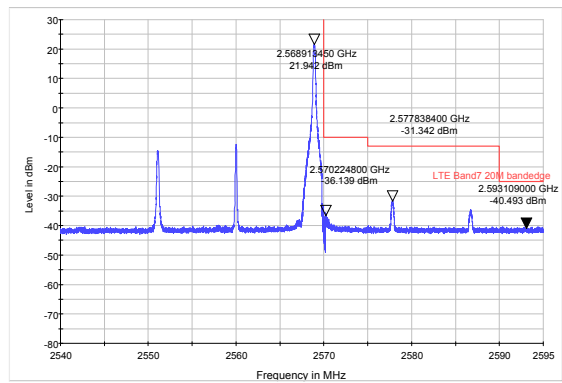
LTE Band 7 QPSK 15MHz CH-High, 100%RB



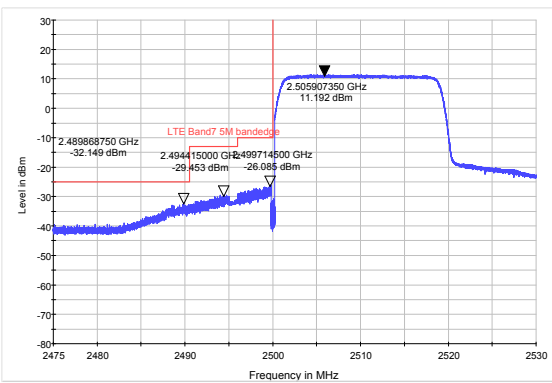
LTE Band 7 QPSK 20MHz CH-Low, 1 RB



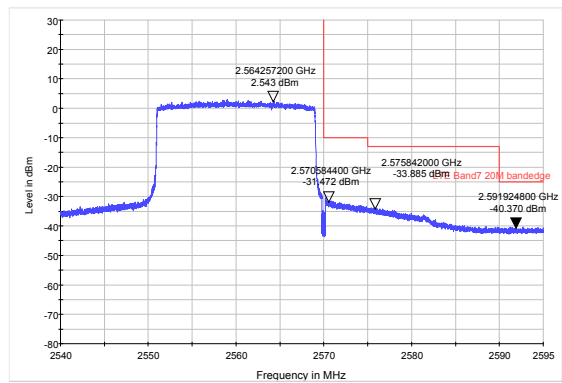
LTE Band 7 QPSK 20MHz CH-High, 1 RB



LTE Band 7 QPSK 20MHz CH-Low, 100%RB

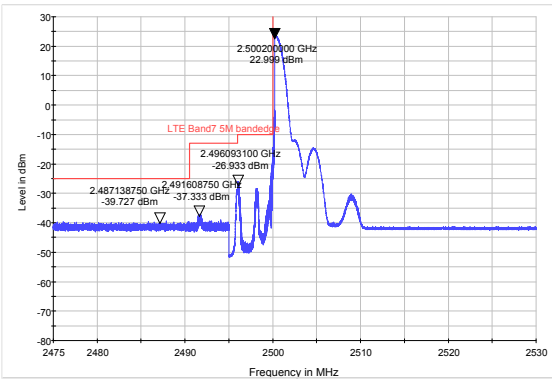


LTE Band 7 QPSK 20MHz CH-High, 100%RB

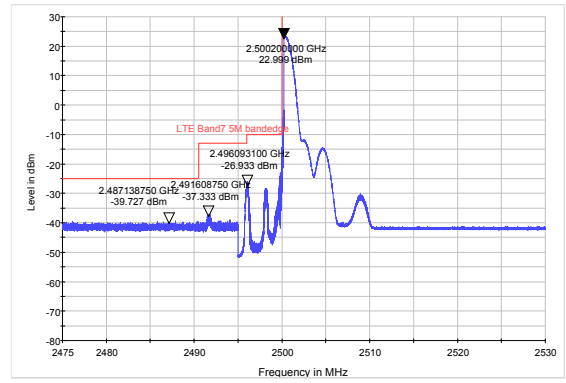




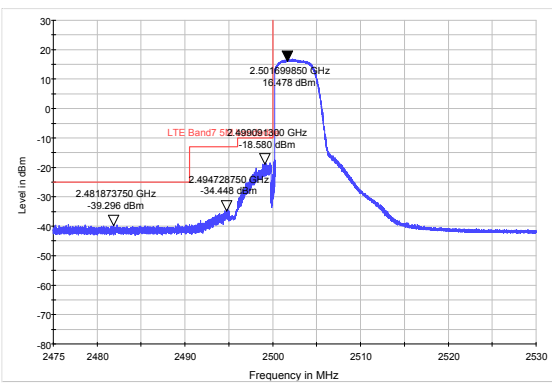
LTE Band 7 16QAM 5MHz CH-Low, 1 RB



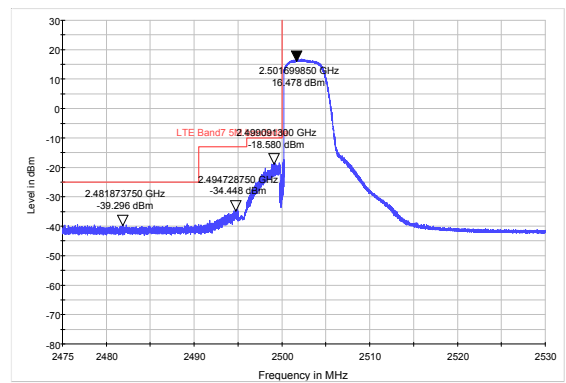
LTE Band 7 16QAM 5MHz CH-High, 1 RB



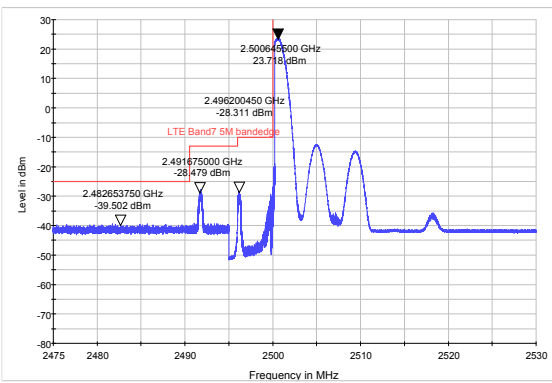
LTE Band 7 16QAM 5MHz CH-Low, 100%RB



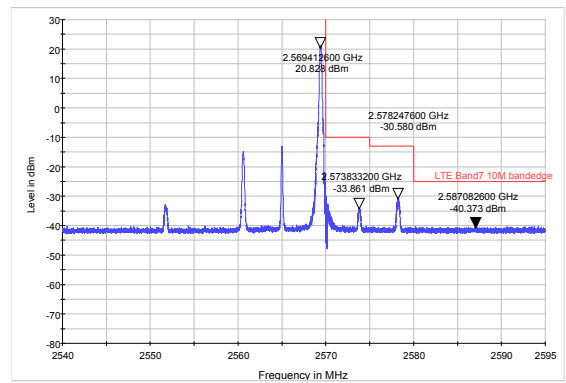
LTE Band 7 16QAM 5MHz CH-High, 100%RB



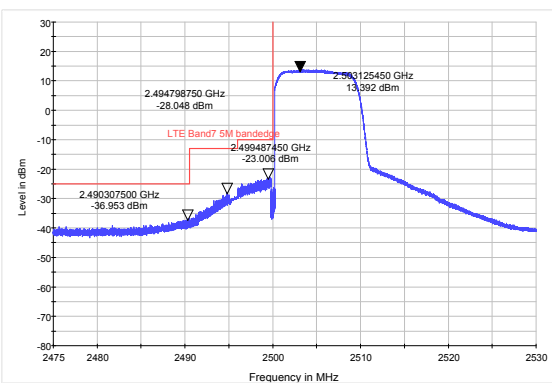
LTE Band 7 16QAM 10MHz CH-Low, 1 RB



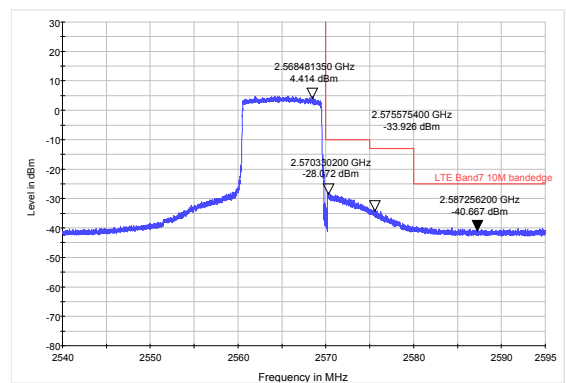
LTE Band 7 16QAM 10MHz CH-High, 1 RB



LTE Band 7 16QAM 10MHz CH-Low, 100%RB

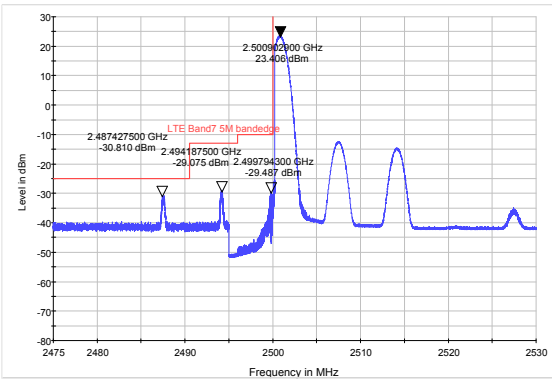


LTE Band 7 16QAM 10MHz CH-High, 100%RB

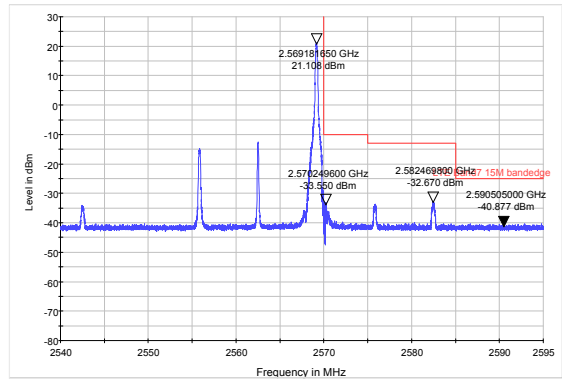




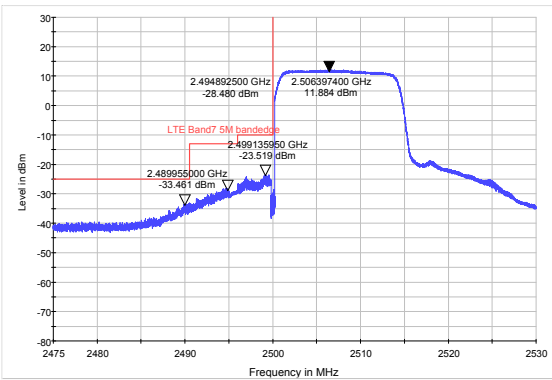
LTE Band 7 16QAM 15MHz CH-Low, 1 RB



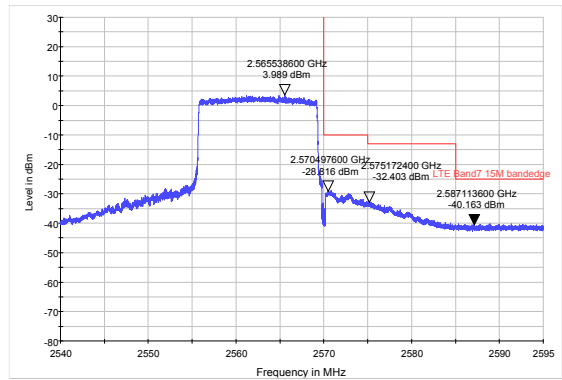
LTE Band 7 16QAM 15MHz CH-High, 1 RB



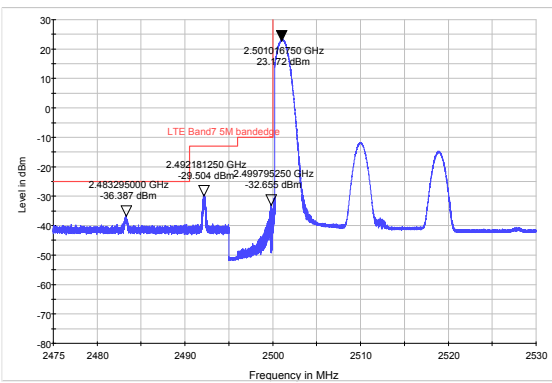
LTE Band 7 16QAM 15MHz CH-Low, 100%RB



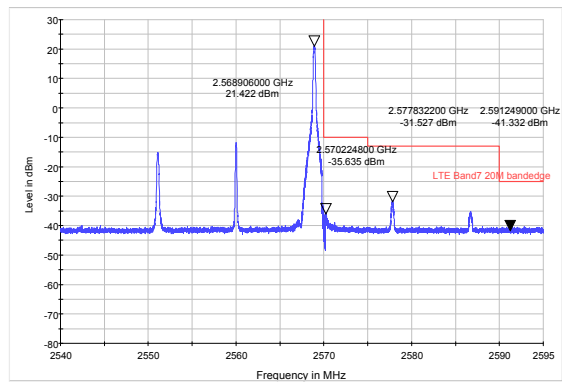
LTE Band 7 16QAM 15MHz CH-High, 100%RB



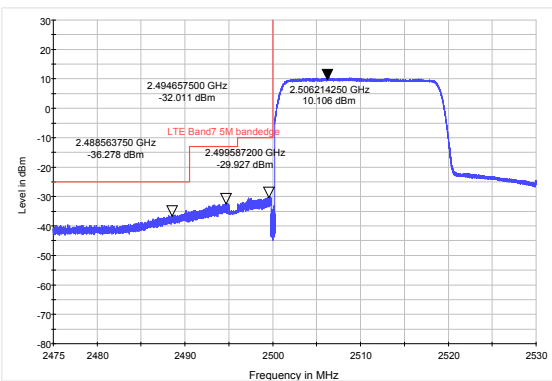
LTE Band 7 16QAM 20MHz CH-Low, 1 RB



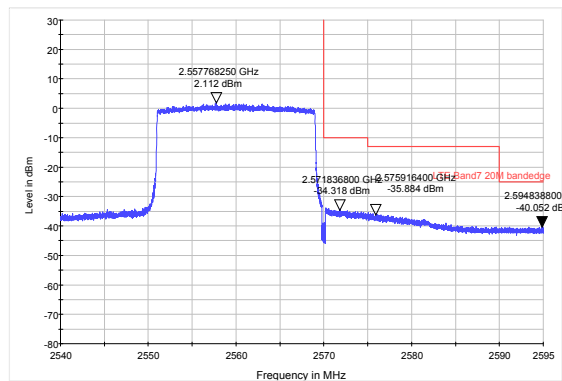
LTE Band 7 16QAM 20MHz CH-High, 1 RB



LTE Band 7 16QAM 20MHz CH-Low, 100%RB

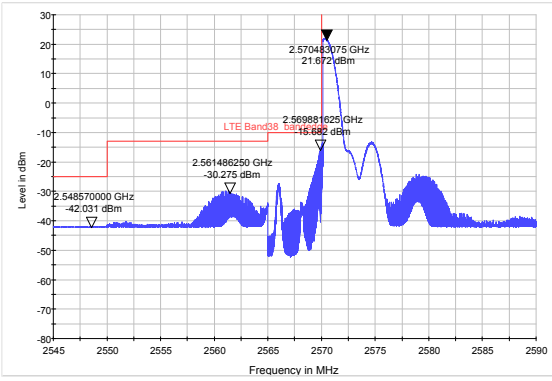


LTE Band 7 16QAM 20MHz CH-High, 100%RB

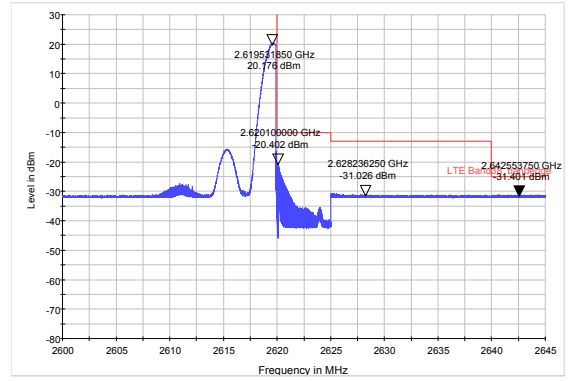




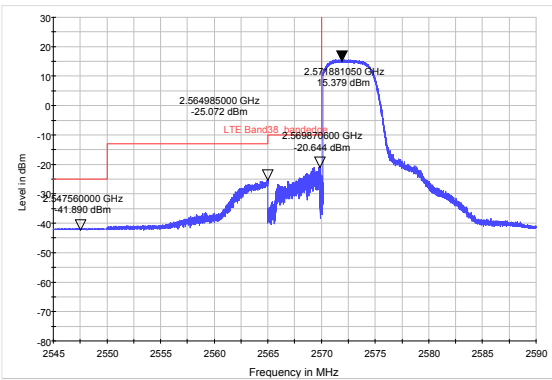
LTE Band 38 QPSK 5MHz CH-Low, RB 1



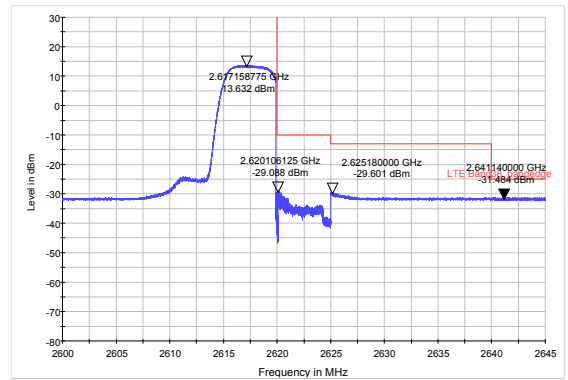
LTE Band 38 QPSK 5MHz CH-High, RB 1



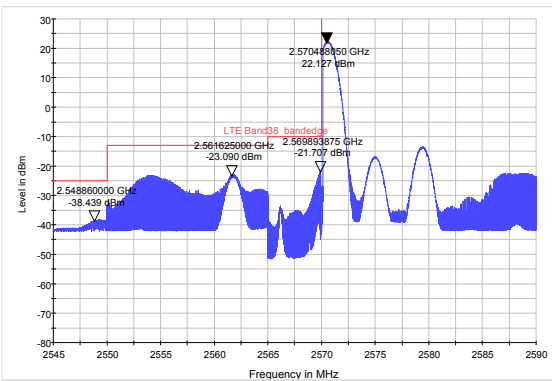
LTE Band 38 QPSK 5MHz CH-Low, RB 25



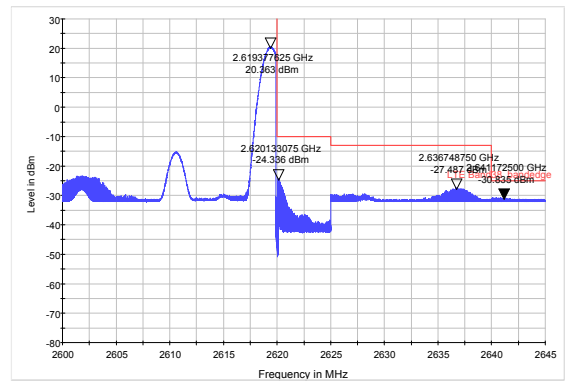
LTE Band 38 QPSK 5MHz CH-High, RB 25



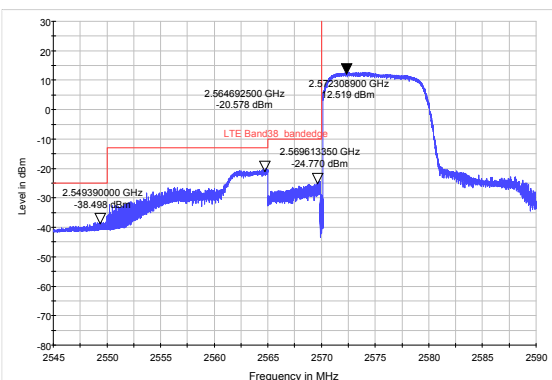
LTE Band 38 QPSK 10MHz CH-Low, RB 1



LTE Band 38 QPSK 10MHz CH-High, RB 1



LTE Band 38 QPSK 10MHz CH-Low, RB 50



LTE Band 38 QPSK 10MHz CH-High, RB 50

