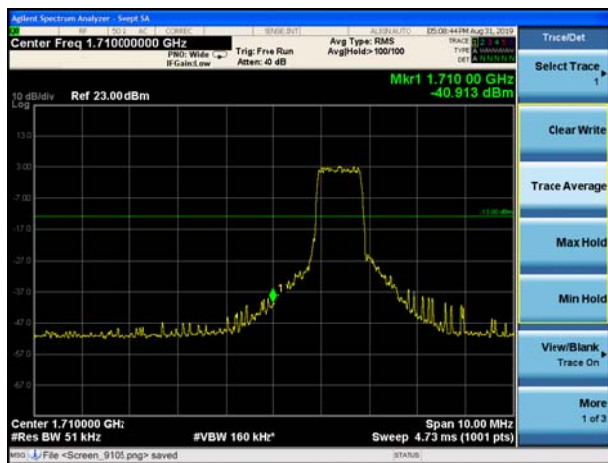
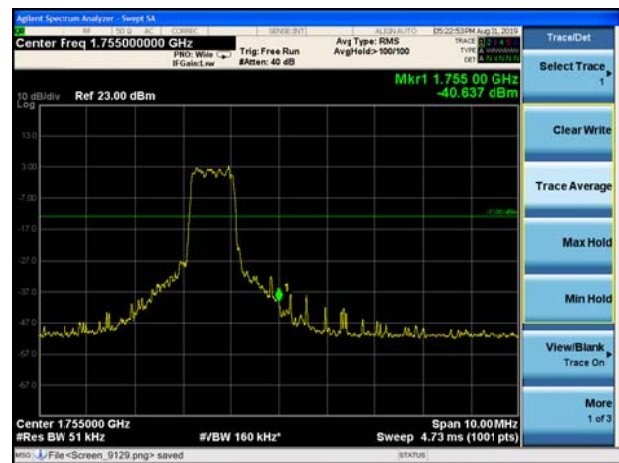




LTE Band 4 16QAM 15MHz CH-Low, 100%RB



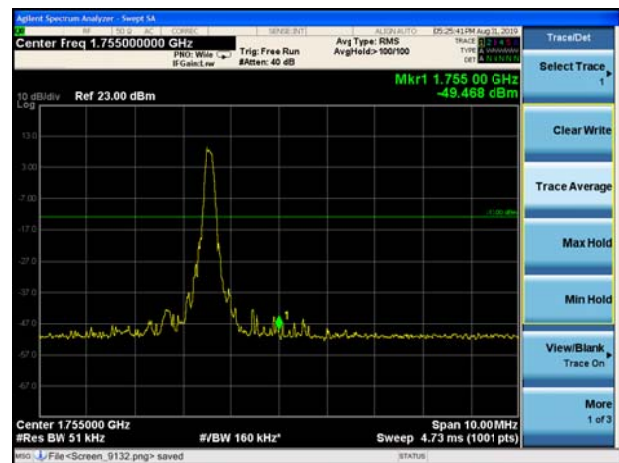
LTE Band 4 16QAM 15MHz CH-High, 100%RB



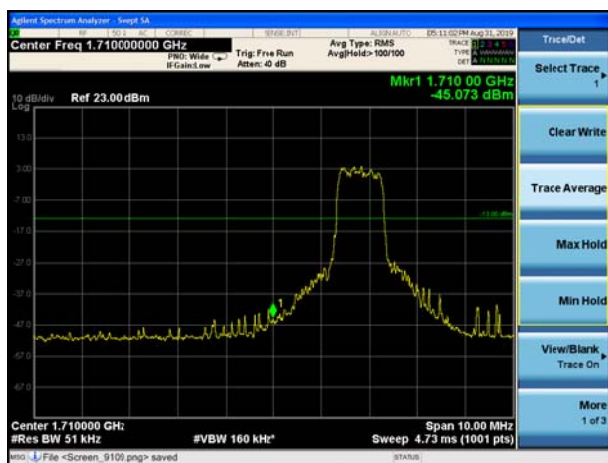
LTE Band 4 16QAM 20MHz CH-Low, 1 RB



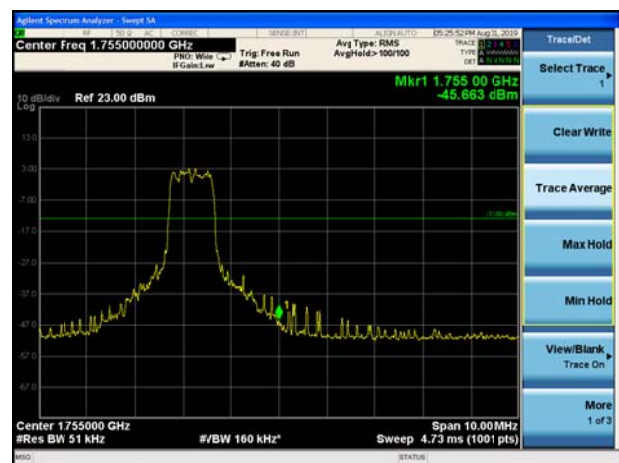
LTE Band 4 16QAM 20MHz CH-High, 1 RB



LTE Band 4 16QAM 20MHz CH-Low, 100%RB



LTE Band 4 16QAM 20MHz CH-High, 100%RB

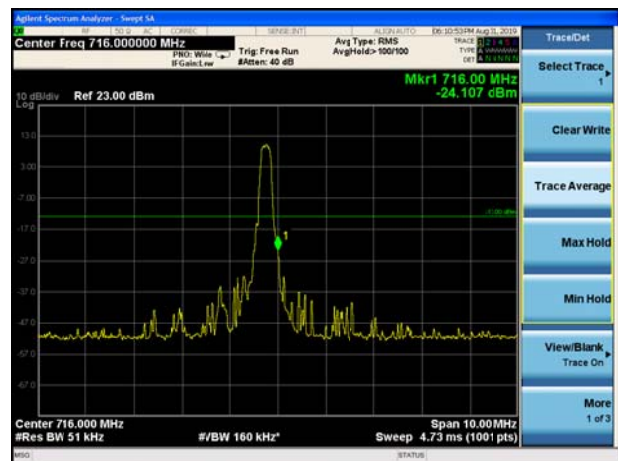




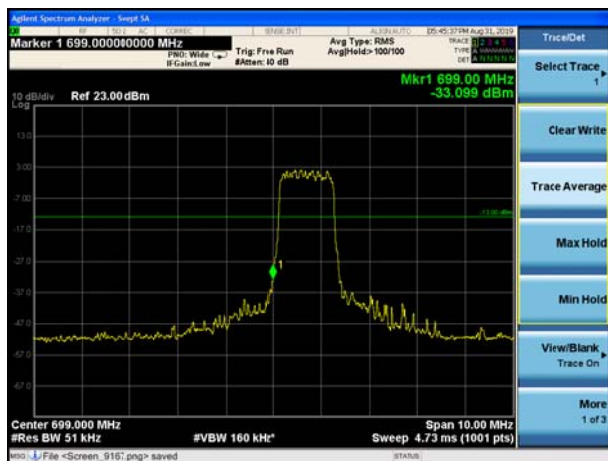
LTE Band 12 QPSK 1.4MHz CH-Low, 1 RB



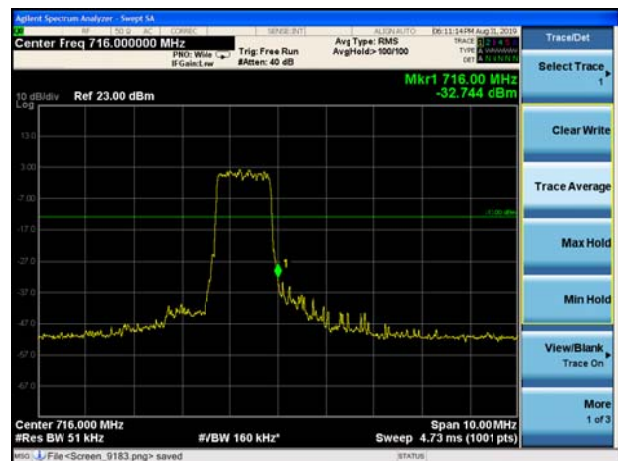
LTE Band 12 QPSK 1.4MHz CH-High, 1 RB



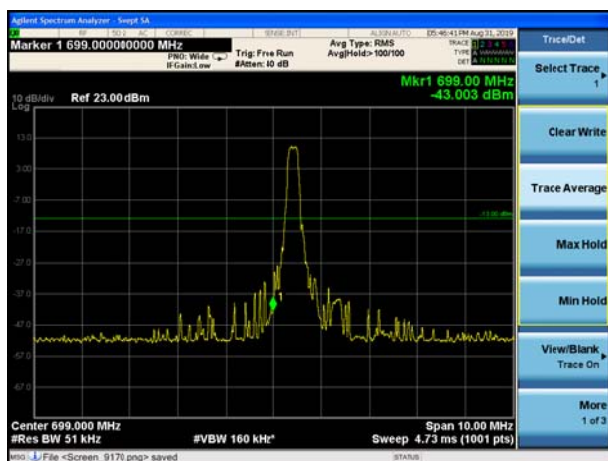
LTE Band 12 QPSK 1.4MHz CH-Low, 100%RB



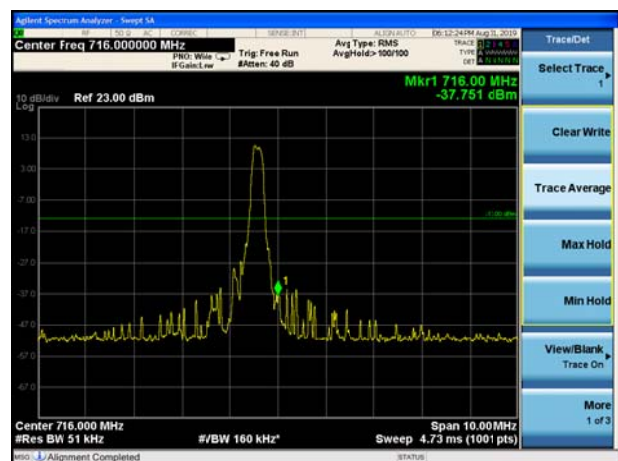
LTE Band 12 QPSK 1.4MHz CH-High, 100%RB



LTE Band 12 QPSK 3MHz CH-Low, 1 RB

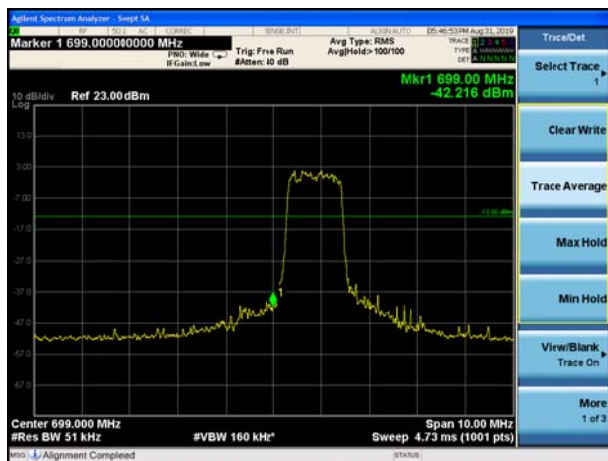


LTE Band 12 QPSK 3MHz CH-High, 1 RB

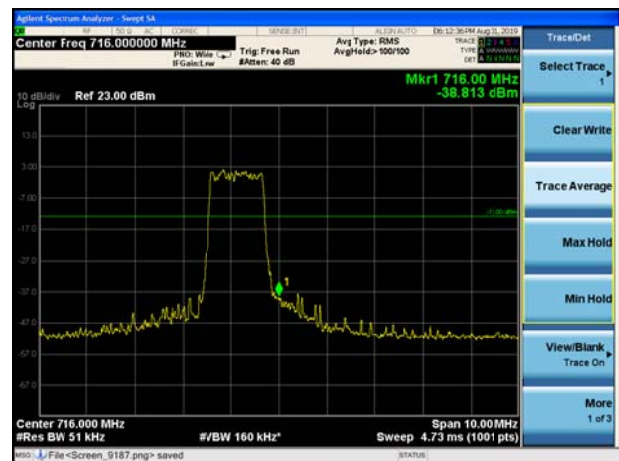




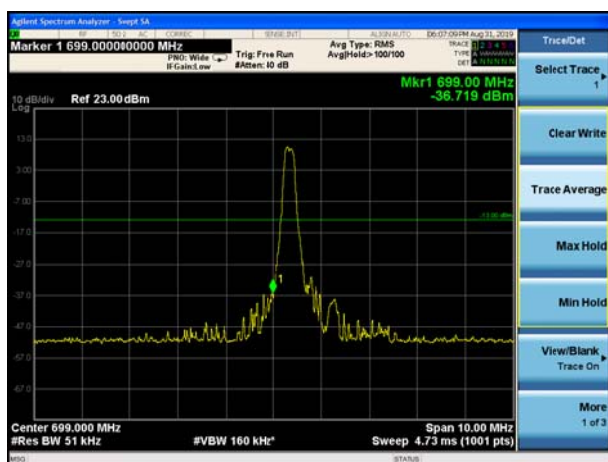
LTE Band 12 QPSK 3MHz CH-Low, 100%RB



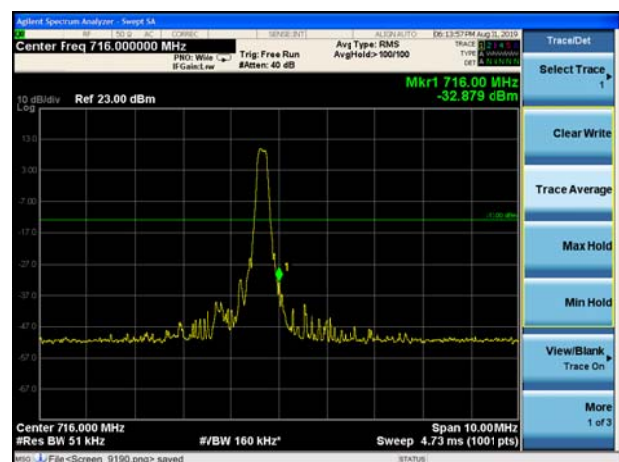
LTE Band 12 QPSK 3MHz CH-High, 100%RB



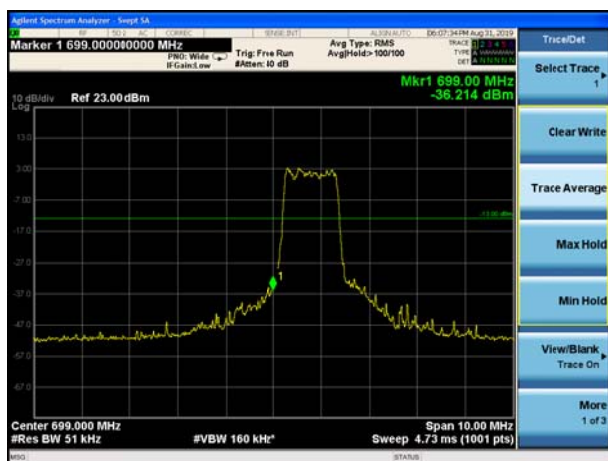
LTE Band 12 QPSK 5MHz CH-Low, 1 RB



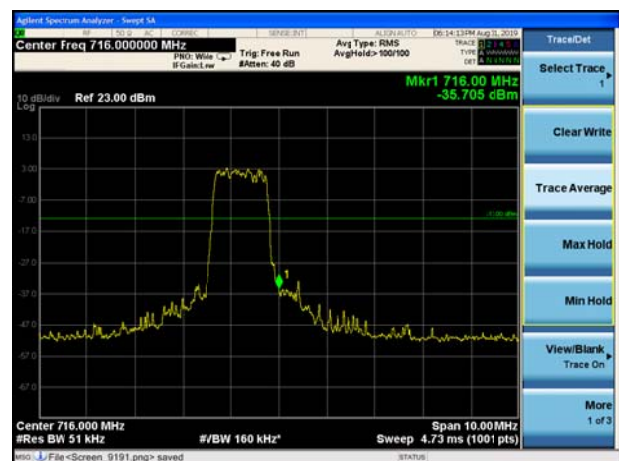
LTE Band 12 QPSK 5MHz CH-High, 1 RB



LTE Band 12 QPSK 5MHz CH-Low, 100%RB



LTE Band 12 QPSK 5MHz CH-High, 100%RB

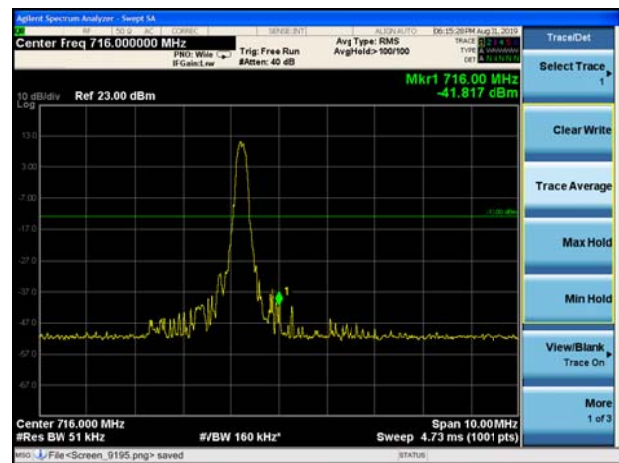




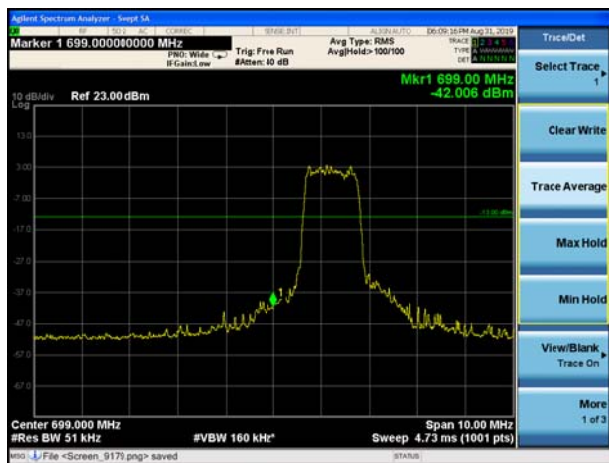
LTE Band 12 QPSK 10MHz CH-Low, 1 RB



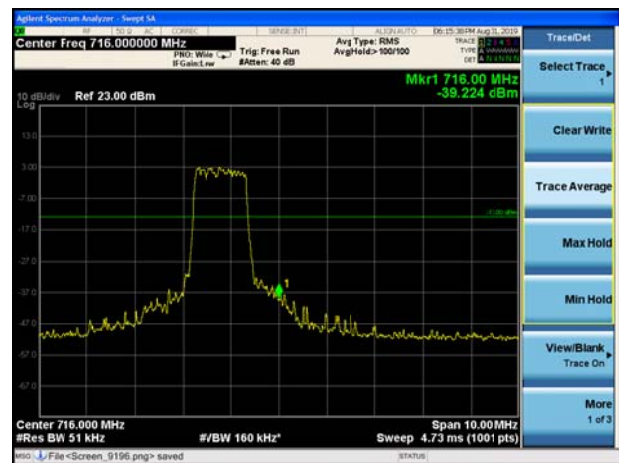
LTE Band 12 QPSK 10MHz CH-High, 1 RB



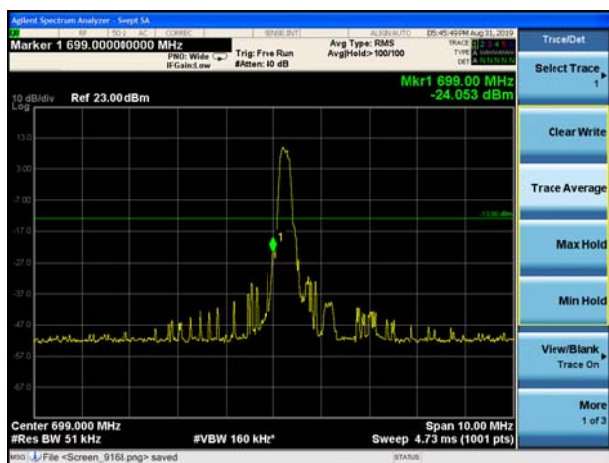
LTE Band 12 QPSK 10MHz CH-Low, 100%RB



LTE Band 12 QPSK 10MHz CH-High, 100%RB



LTE Band 12 16QAM 1.4MHz CH-Low, 1 RB

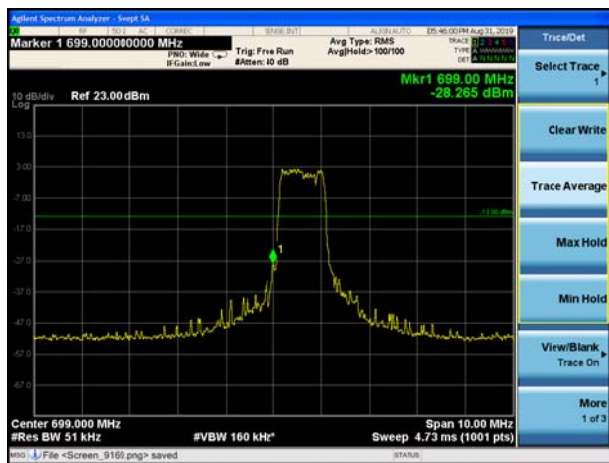


LTE Band 12 16QAM 1.4MHz CH-High, 1 RB

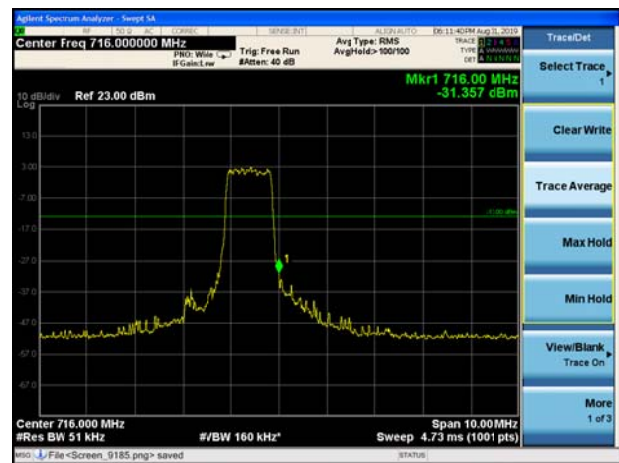




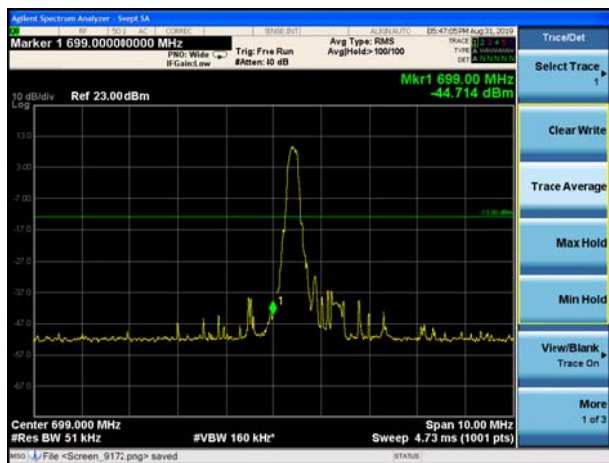
LTE Band 12 16QAM 1.4MHz CH-Low, 100%RB



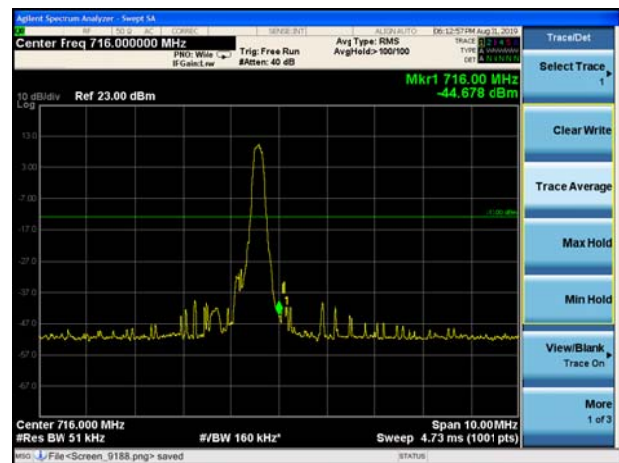
LTE Band 12 16QAM 1.4MHz CH-High, 100%RB



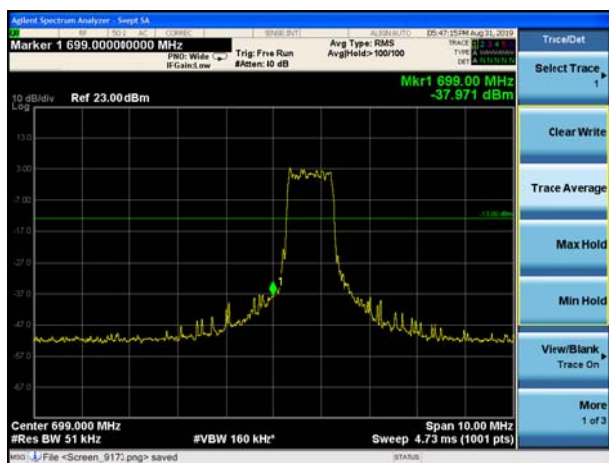
LTE Band 12 16QAM 3MHz CH-Low, 1 RB



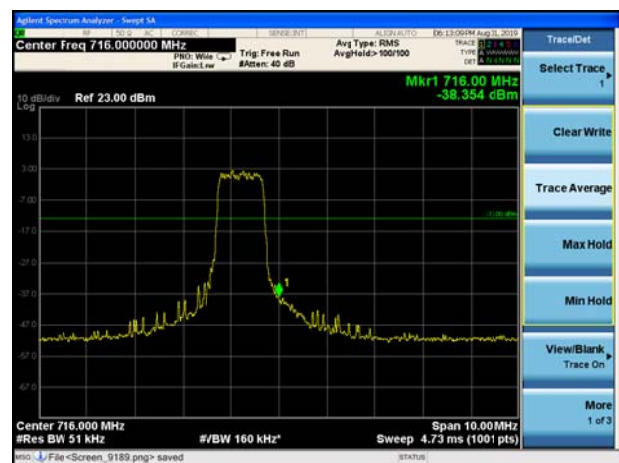
LTE Band 12 16QAM 3MHz CH-High, 1 RB



LTE Band 12 16QAM 3MHz CH-Low, 100%RB

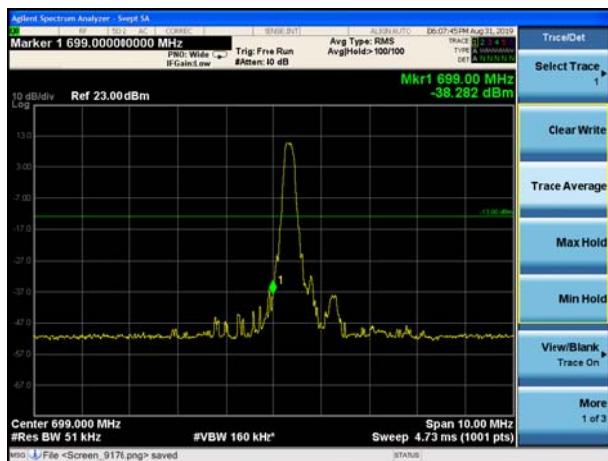


LTE Band 12 16QAM 3MHz CH-High, 100%RB

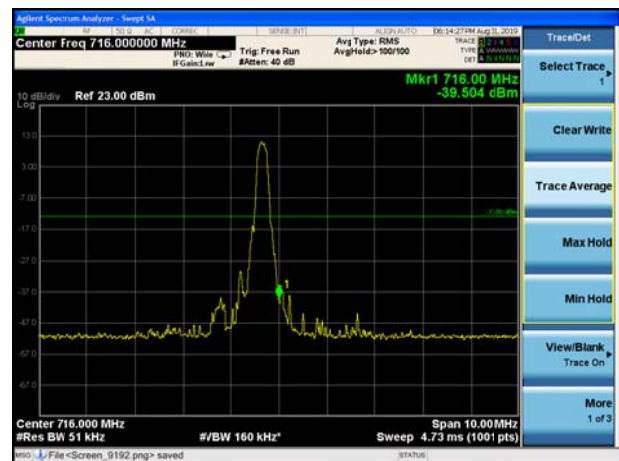




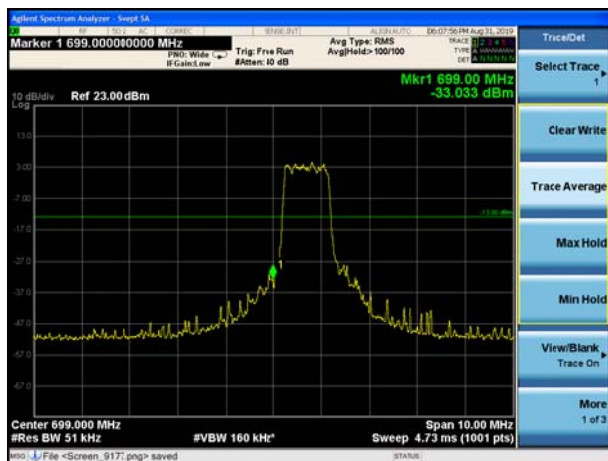
LTE Band 12 16QAM 5MHz CH-Low, 1 RB



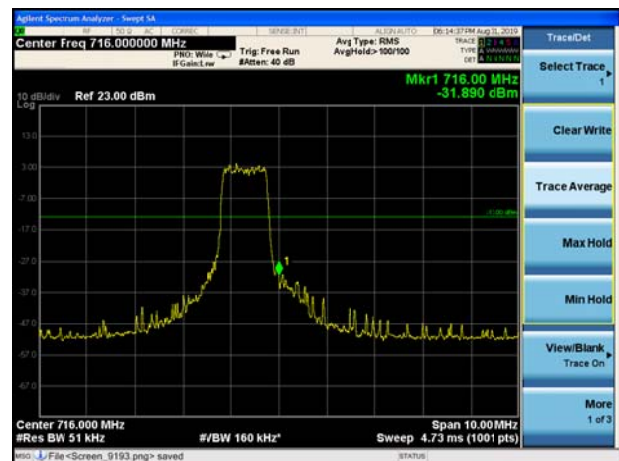
LTE Band 12 16QAM 5MHz CH-High, 1 RB



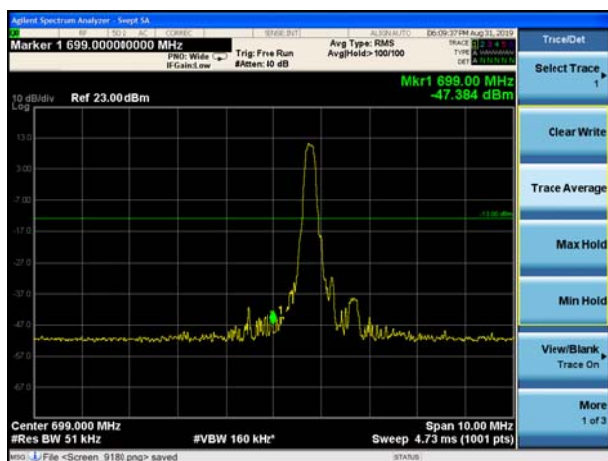
LTE Band 12 16QAM 5MHz CH-Low, 100%RB



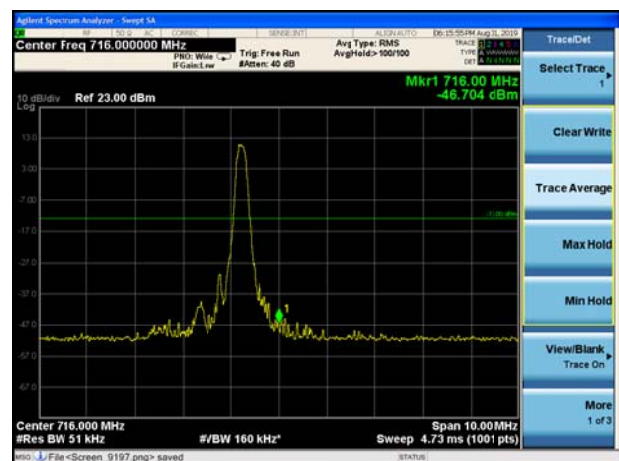
LTE Band 12 16QAM 5MHz CH-High, 100%RB



LTE Band 12 16QAM 10MHz CH-Low, 1 RB

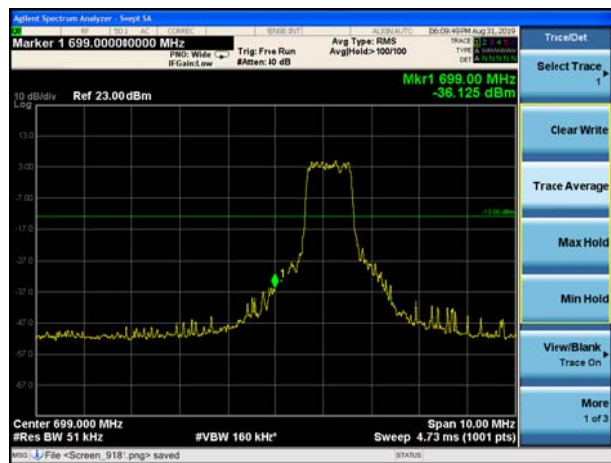


LTE Band 12 16QAM 10MHz CH-High, 1 RB

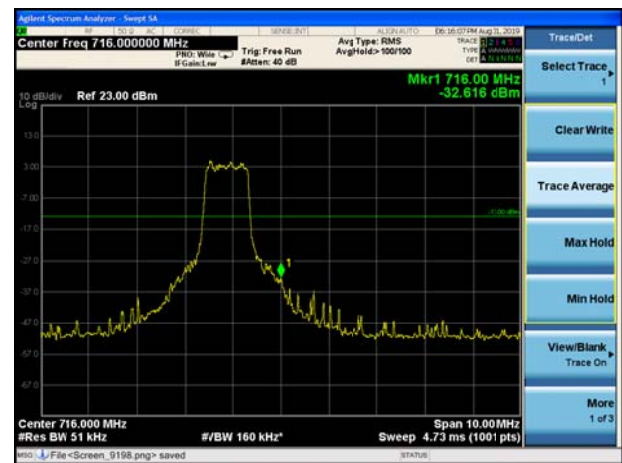




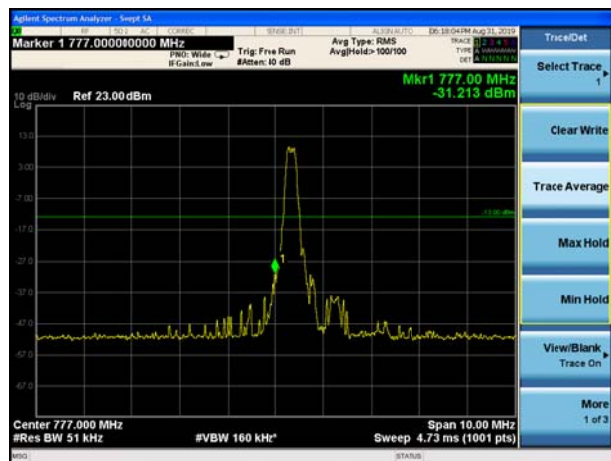
LTE Band 12 16QAM 10MHz CH-Low, 100%RB



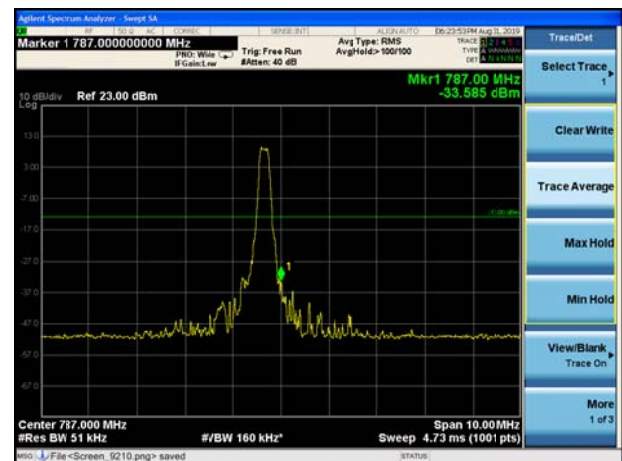
LTE Band 12 16QAM 10MHz CH-High, 100%RB



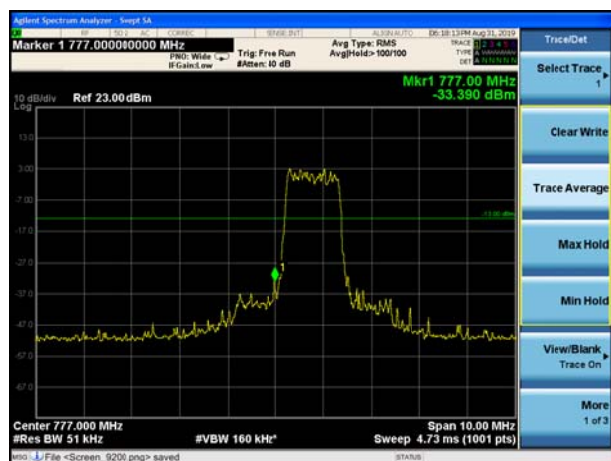
LTE Band 13 QPSK 5MHz CH-Low, 1 RB



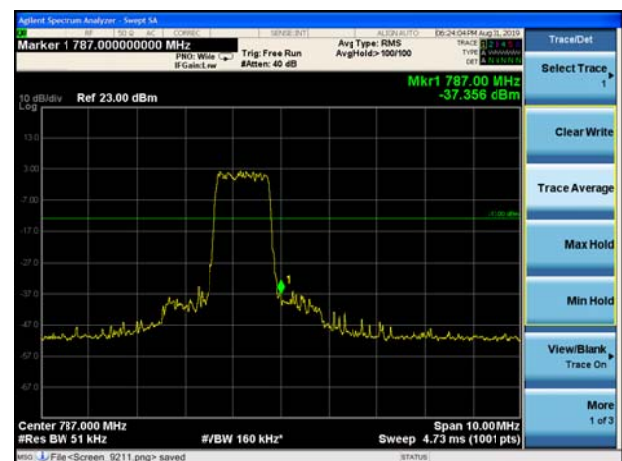
LTE Band 13 QPSK 5MHz CH-High, 1 RB



LTE Band 13 QPSK 5MHz CH-Low, 100%RB

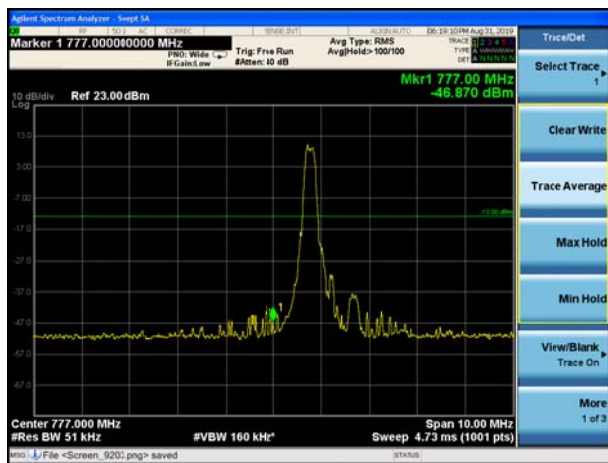


LTE Band 13 QPSK 5MHz CH- High, 100%RB

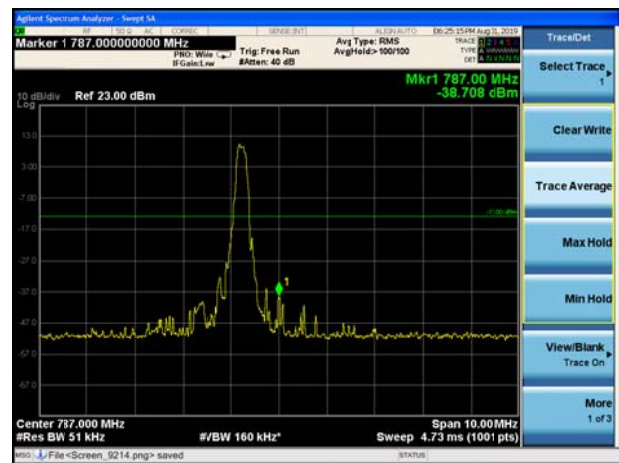




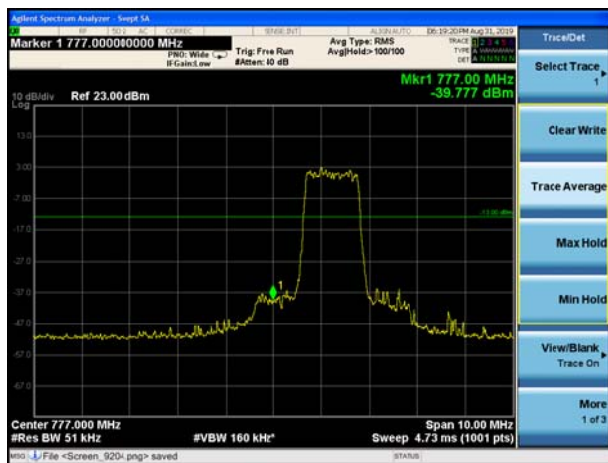
LTE Band 13 QPSK 10MHz CH-Low, 1 RB



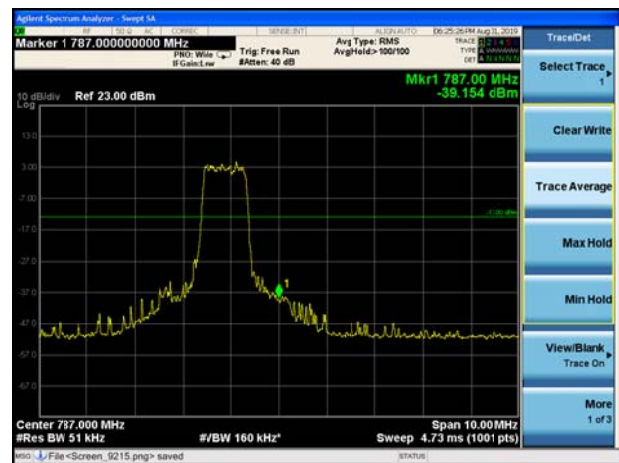
LTE Band 13 QPSK 10MHz CH-High, 1 RB



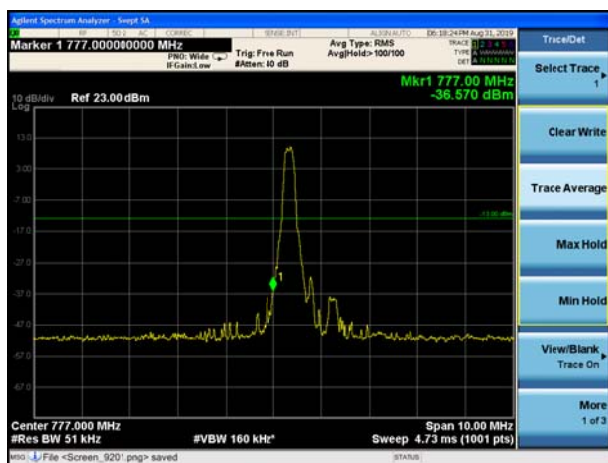
LTE Band 13 QPSK 10MHz CH-Low, 100%RB



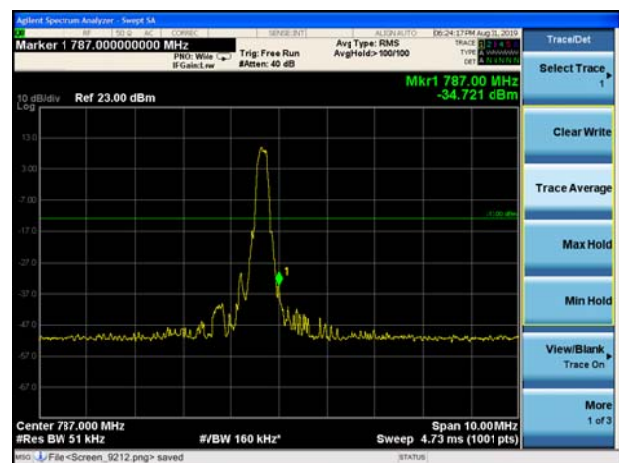
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LTE Band 13 16QAM 5MHz CH-Low, 1 RB

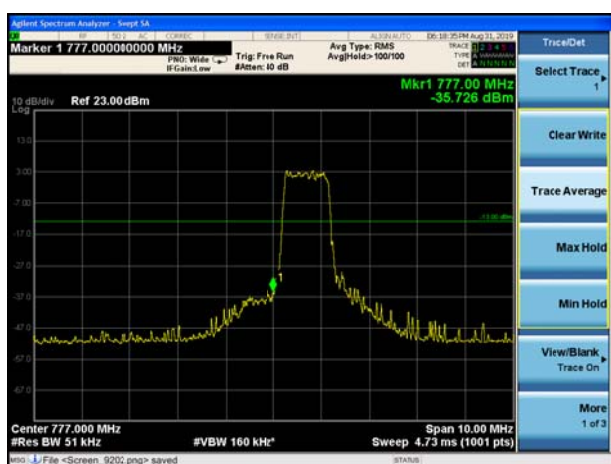


LTE Band 13 16QAM 5MHz CH-High, 1 RB

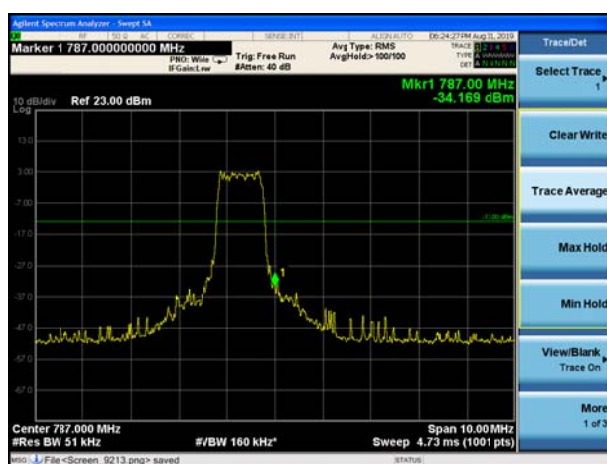




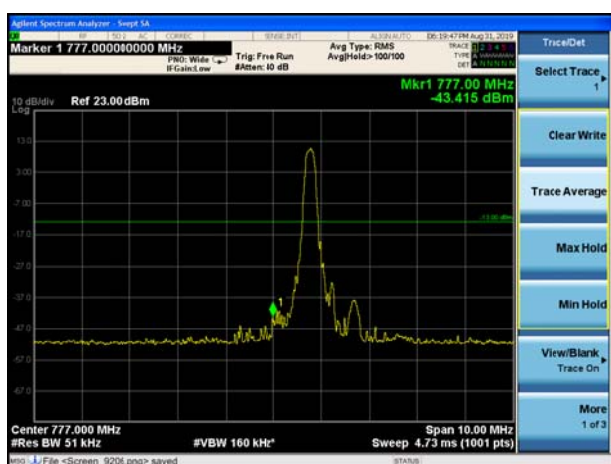
LTE Band 13 16QAM 5MHz CH-Low, 100%RB



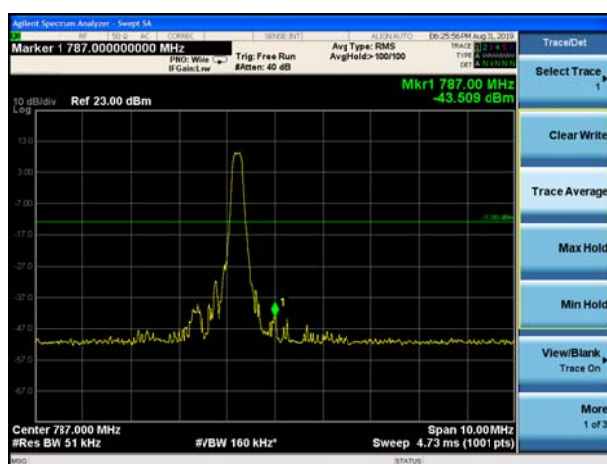
LTE Band 13 16QAM 5MHz CH- High, 100%RB



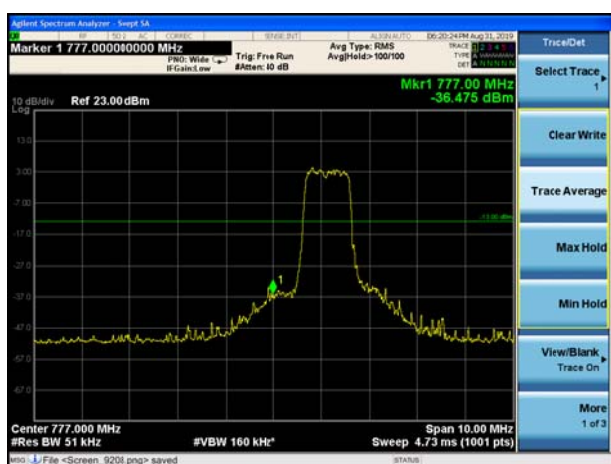
LTE Band 13 16QAM 10MHz CH-Low, 1 RB



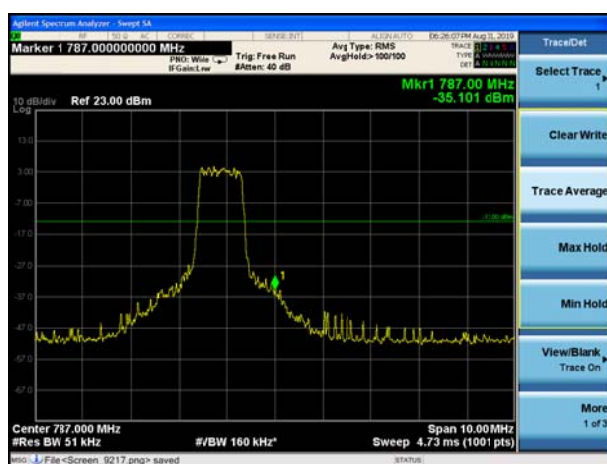
LTE Band 13 16QAM 10MHz CH-High, 1 RB

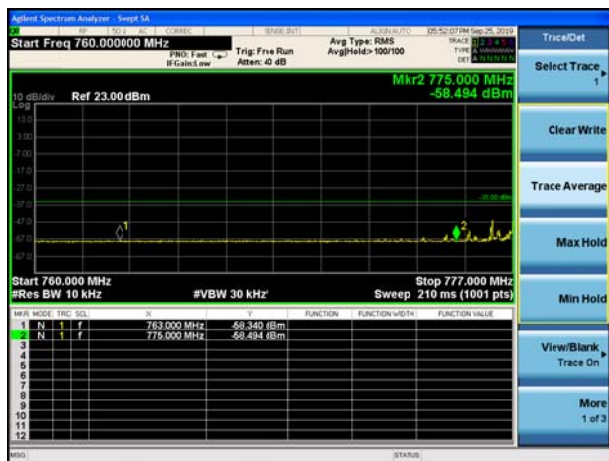
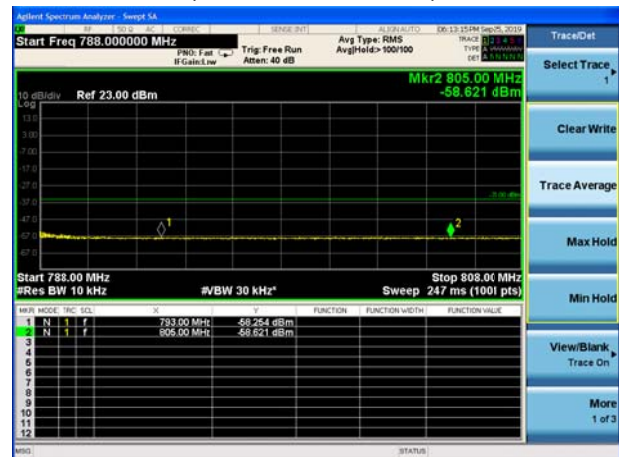
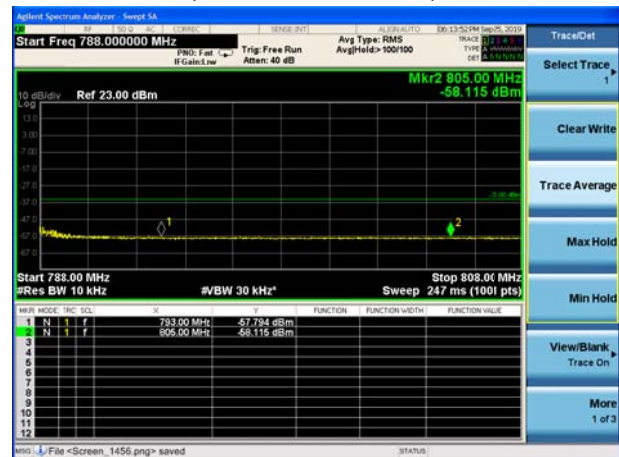
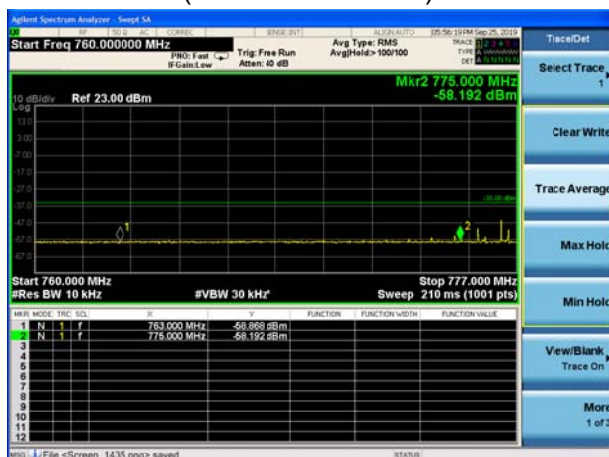


LTE Band 13 16QAM 10MHz CH-Low, 100%RB



LTE Band 13 16QAM 10MHz CH- High, 100%RB



LTE Band 13 QPSK 5MHz CH-Low, 1 RB
(763MHz ~775MHz)LTE Band 13 QPSK 5MHz CH-Low, 1 RB
(793MHz ~805MHz)LTE Band 13 QPSK 5MHz CH-Low, 100%RB
(763MHz ~775MHz)LTE Band 13 QPSK 5MHz CH-Low, 100%RB
(793MHz ~805MHz)LTE Band 13 QPSK 10MHz CH-Low, 1 RB
(763MHz ~775MHz)LTE Band 13 QPSK 10MHz CH-Low, 1 RB
(793MHz ~805MHz)

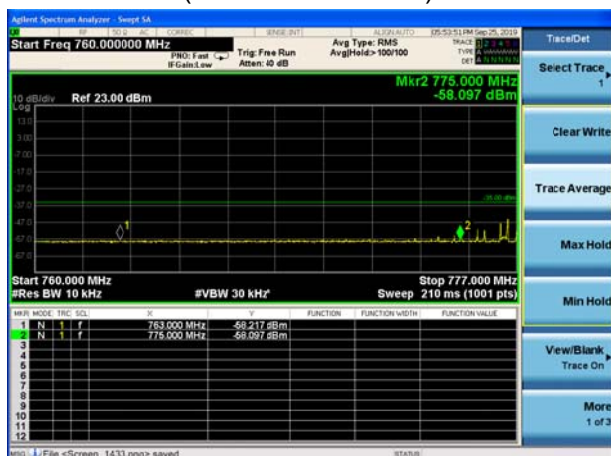
LTE Band 13 QPSK 10MHz CH-Low, 100%RB
(763MHz ~775MHz)



LTE Band 13 QPSK 10MHz CH-Low, 100%RB
(793MHz ~805MHz)



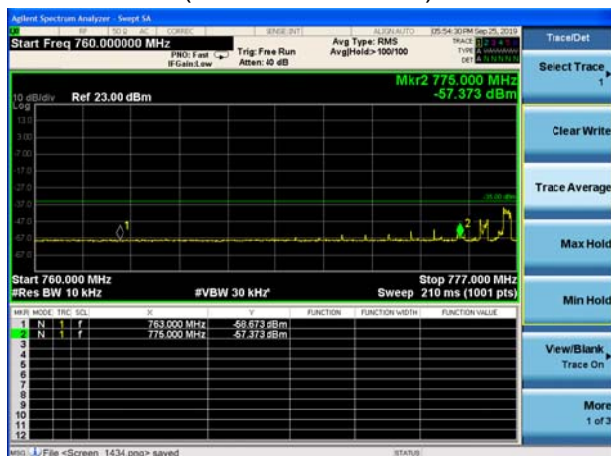
LTE Band 13 16QAM 5MHz CH-Low, 1 RB
(763MHz ~775MHz)



LTE Band 13 16QAM 5MHz CH-Low, 1 RB
(793MHz ~805MHz)

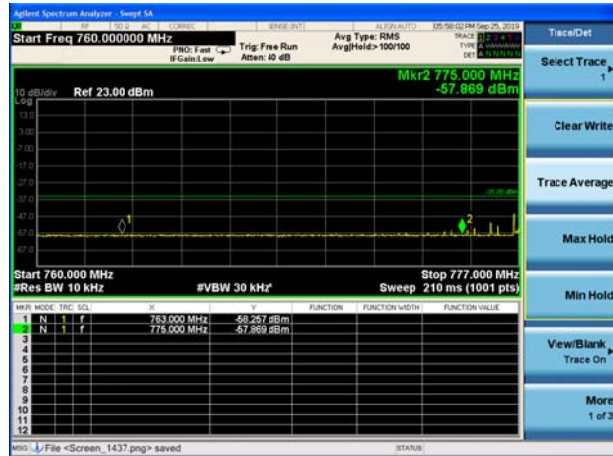
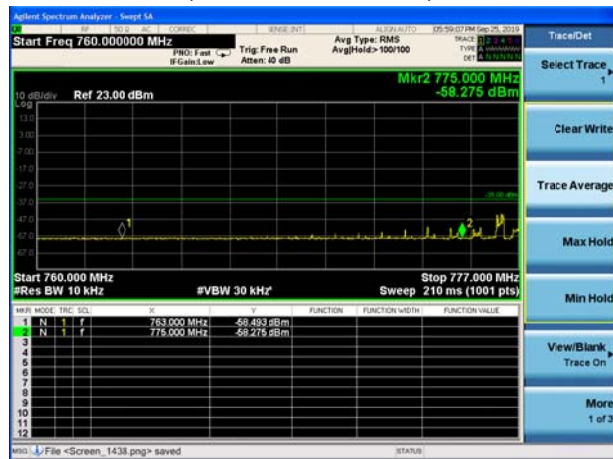
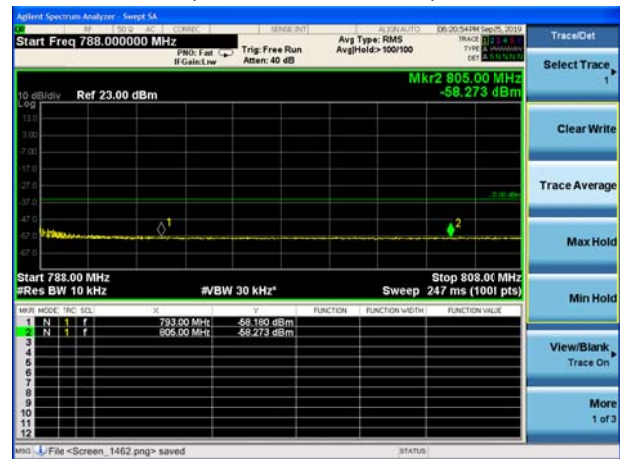


LTE Band 13 16QAM 5MHz CH-Low, 100%RB
(763MHz ~775MHz)



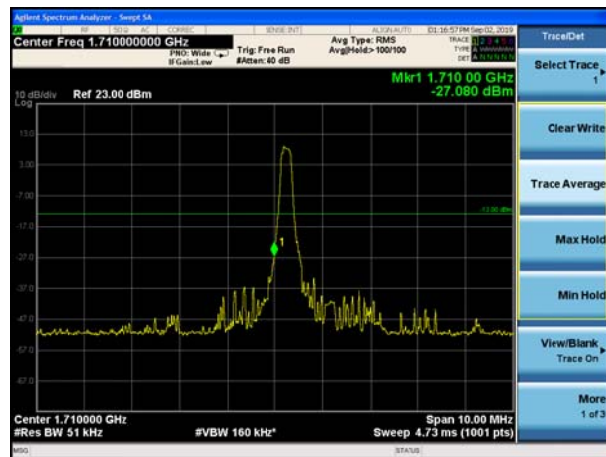
LTE Band 13 16QAM 5MHz CH-Low, 100%RB
(793MHz ~805MHz)



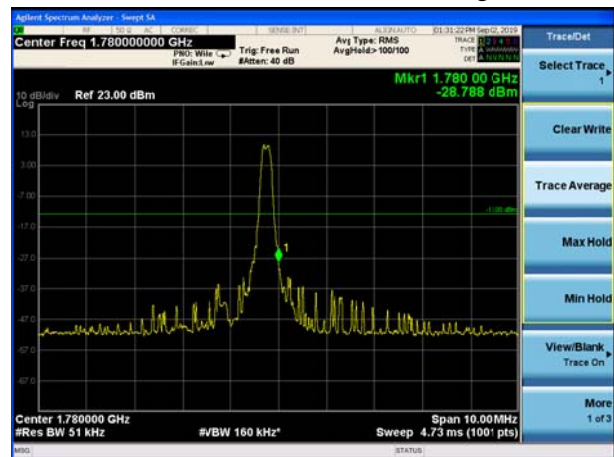
LTE Band 13 16QAM 10MHz CH-Low, 1 RB
(763MHz ~775MHz)LTE Band 13 16QAM 10MHz CH-Low, 1 RB
(793MHz ~805MHz)LTE Band 13 16QAM 10MHz CH-Low, 100%RB
(763MHz ~775MHz)LTE Band 13 16QAM 10MHz CH-Low, 100%RB
(793MHz ~805MHz)



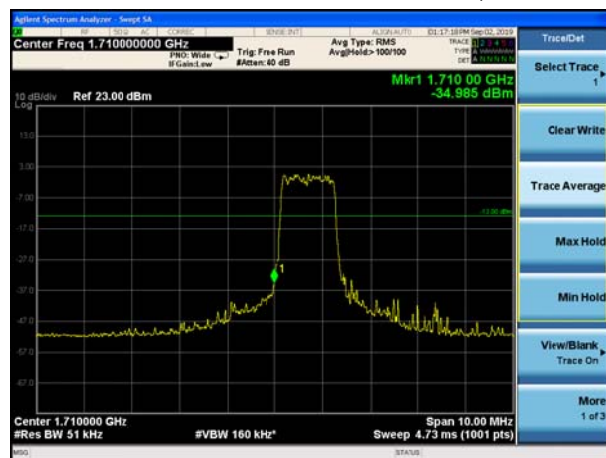
LTE Band 66 QPSK 1.4MHz CH-Low, 1 RB



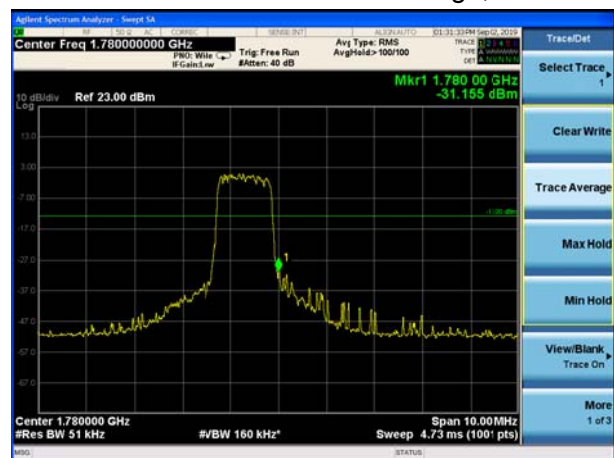
LTE Band 66 QPSK 1.4MHz CH-High, 1 RB



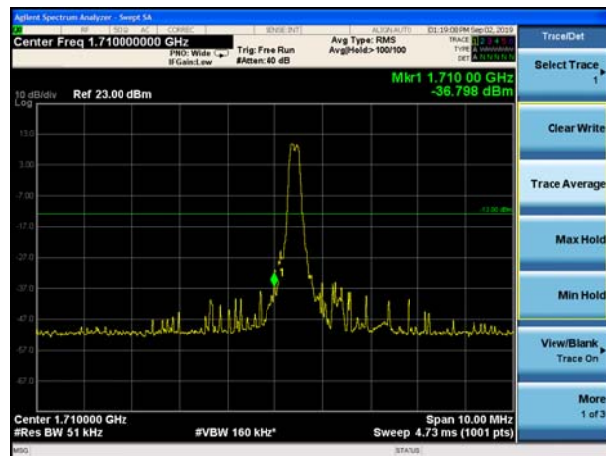
LTE Band 66 QPSK 1.4MHz CH-Low, 100%RB



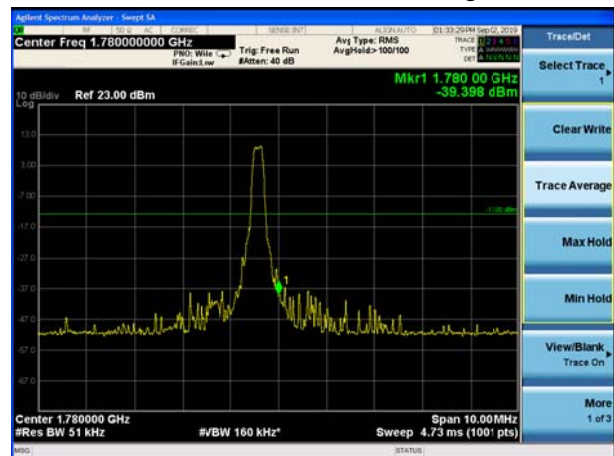
LTE Band 66 QPSK 1.4MHz CH-High, 100%RB



LTE Band 66 QPSK 3MHz CH-Low, 1 RB

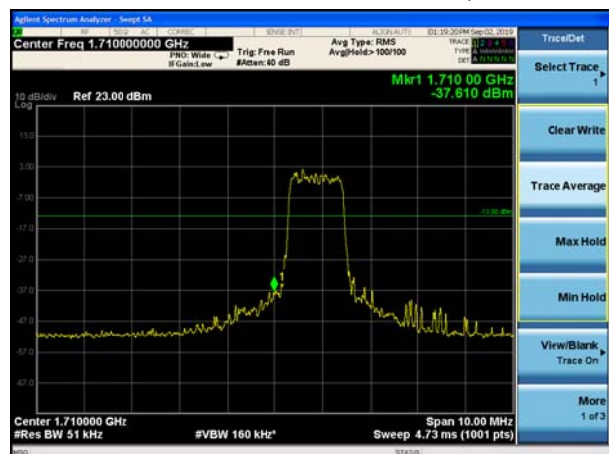


LTE Band 66 QPSK 3MHz CH-High, 1 RB

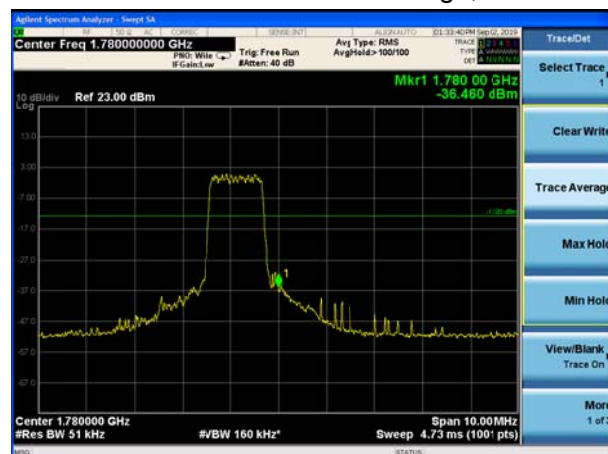




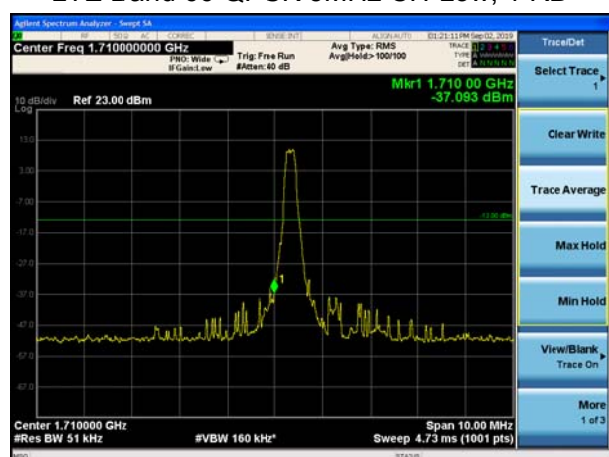
LTE Band 66 QPSK 3MHz CH-Low, 100%RB



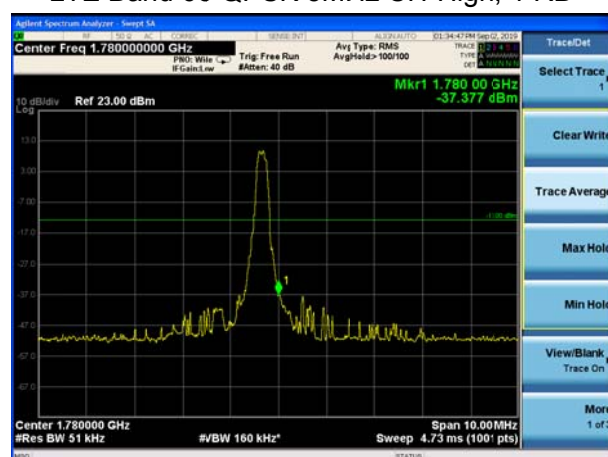
LTE Band 66 QPSK 3MHz CH-High, 100%RB



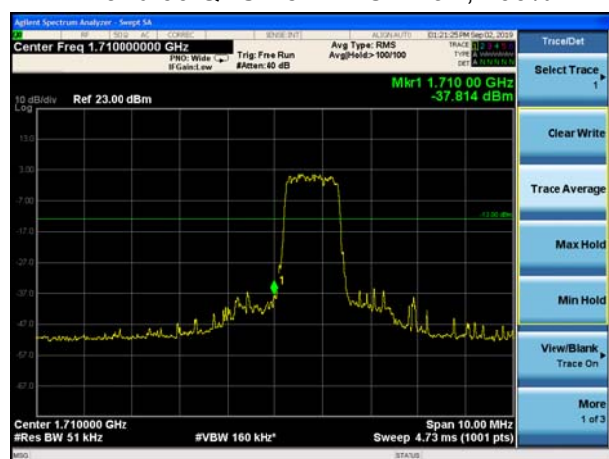
LTE Band 66 QPSK 5MHz CH-Low, 1 RB



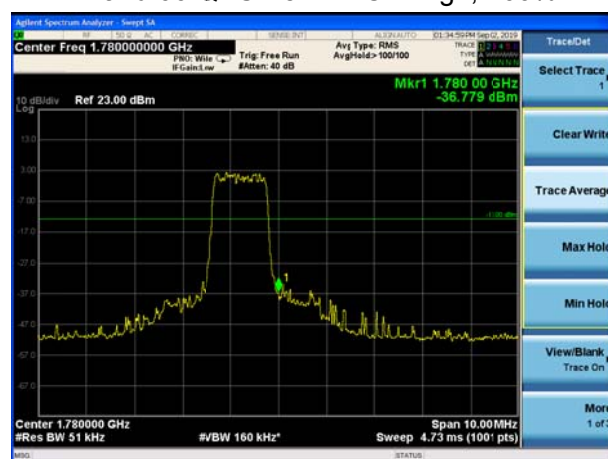
LTE Band 66 QPSK 5MHz CH-High, 1 RB



LTE Band 66 QPSK 5MHz CH-Low, 100%RB

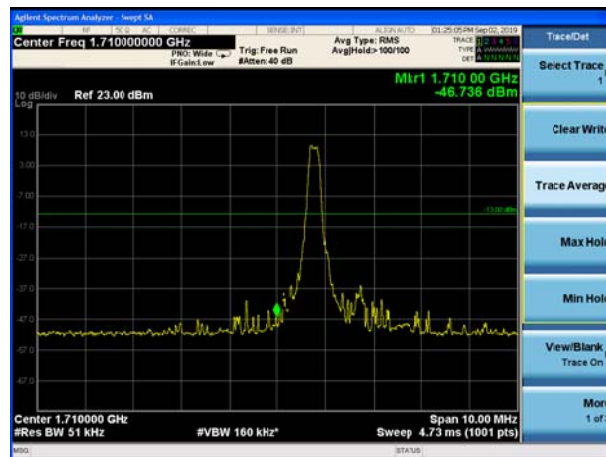


LTE Band 66 QPSK 5MHz CH-High, 100%RB

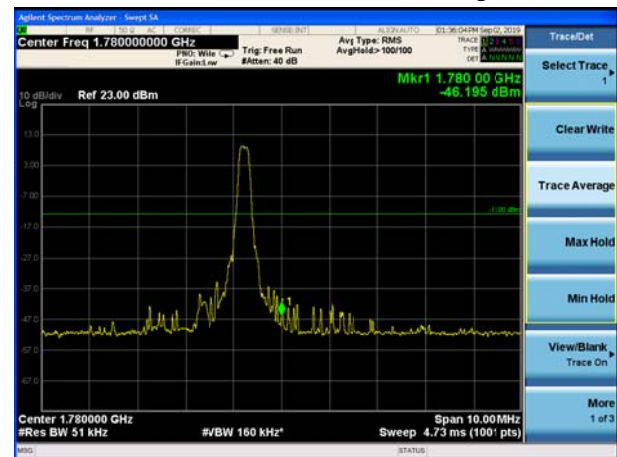




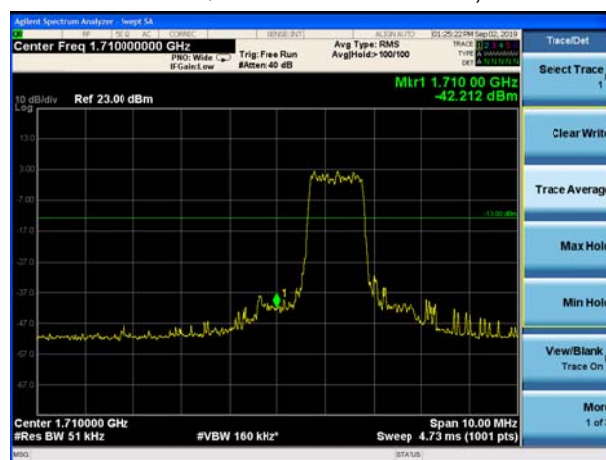
LTE Band 66 QPSK 10MHz CH-Low, 1 RB



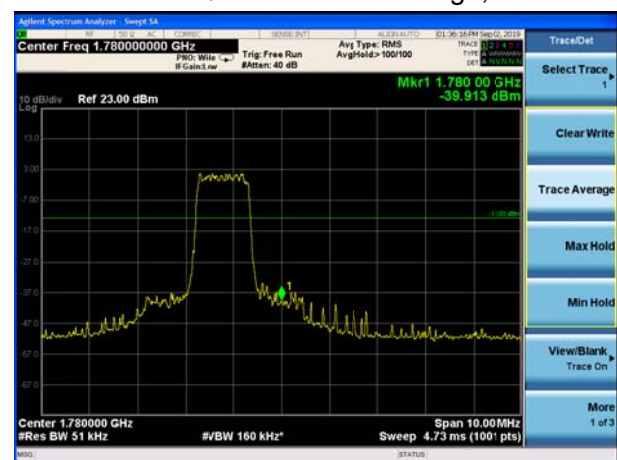
LTE Band 66 QPSK 10MHz CH-High, 1 RB



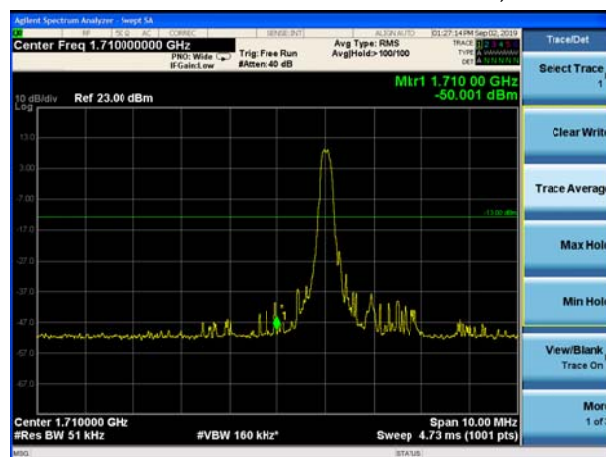
LTE Band 66 QPSK 10MHz CH-Low, 100%RB



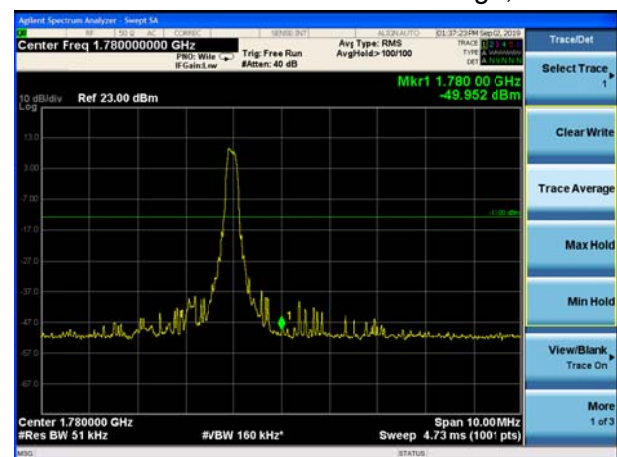
LTE Band 66 QPSK 10MHz CH-High, 100%RB



LTE Band 66 QPSK 15MHz CH-Low, 1 RB

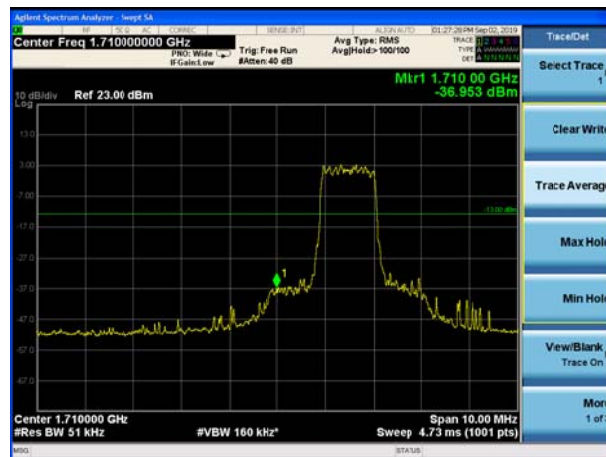


LTE Band 66 QPSK 15MHz CH-High, 1 RB





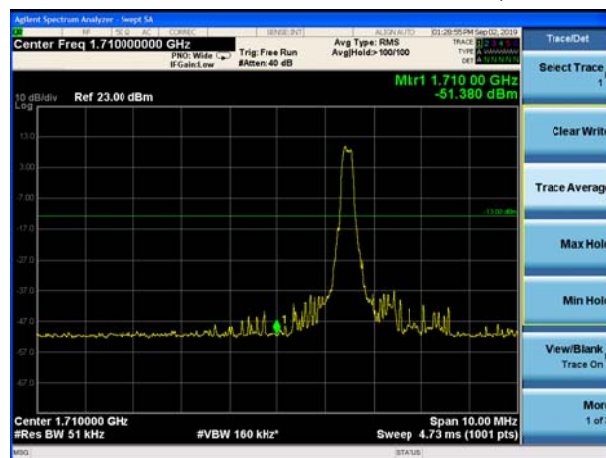
LTE Band 66 QPSK 15MHz CH-Low, 100%RB



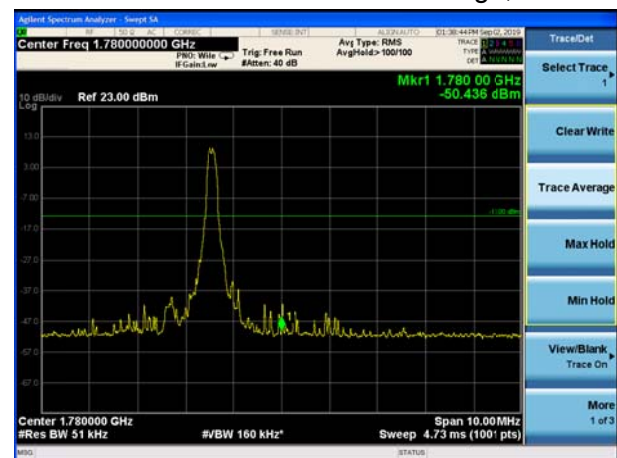
LTE Band 66 QPSK 15MHz CH-High, 100%RB



LTE Band 66 QPSK 20MHz CH-Low, 1 RB



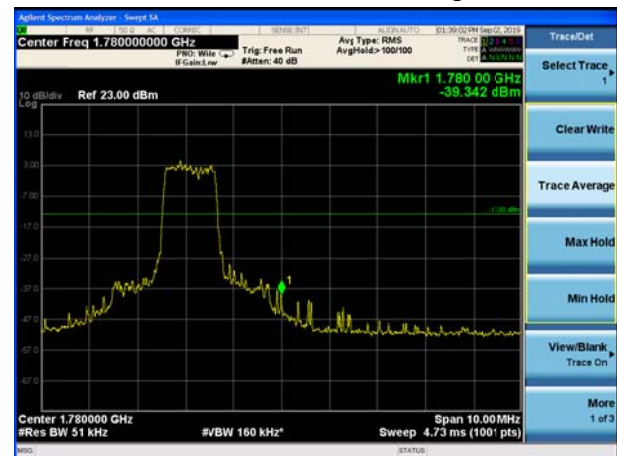
LTE Band 66 QPSK 20MHz CH-High, 1 RB



LTE Band 66 QPSK 20MHz CH-Low, 100%RB



LTE Band 66 QPSK 20MHz CH-High, 100%RB

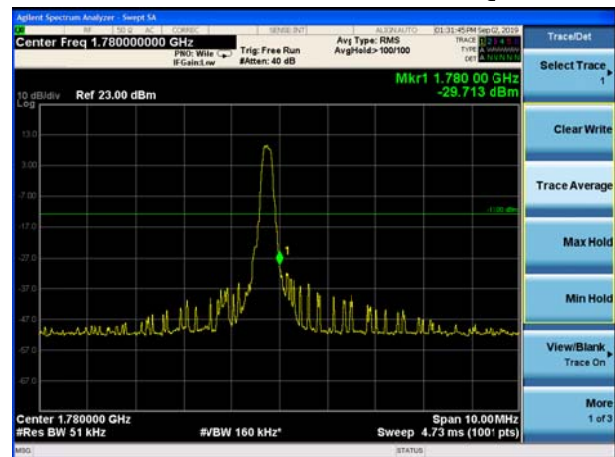




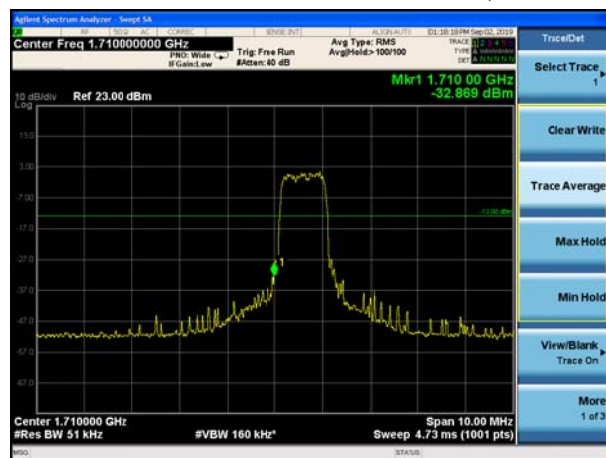
LTE Band 66 16QAM 1.4MHz CH-Low, 1 RB



LTE Band 66 16QAM 1.4MHz CH-High, 1 RB



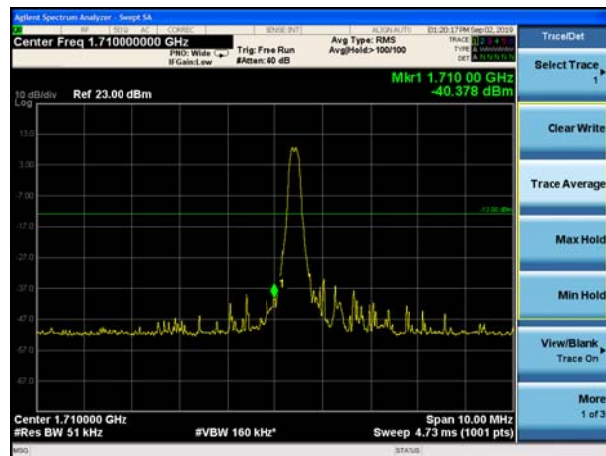
LTE Band 66 16QAM 1.4MHz CH-Low, 100%RB



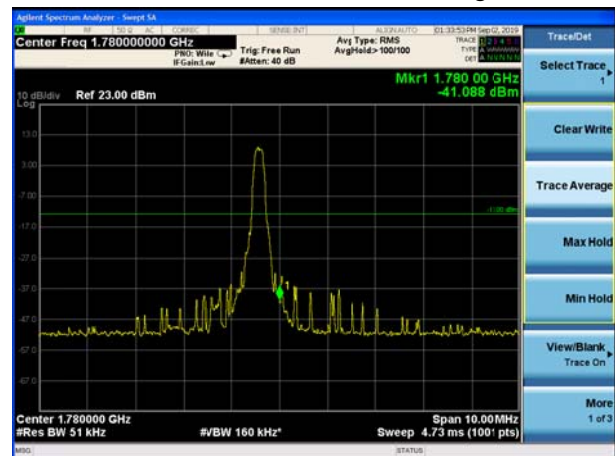
LTE Band 66 16QAM 1.4MHz CH-High, 100%



LTE Band 66 16QAM 3MHz CH-Low, 1 RB

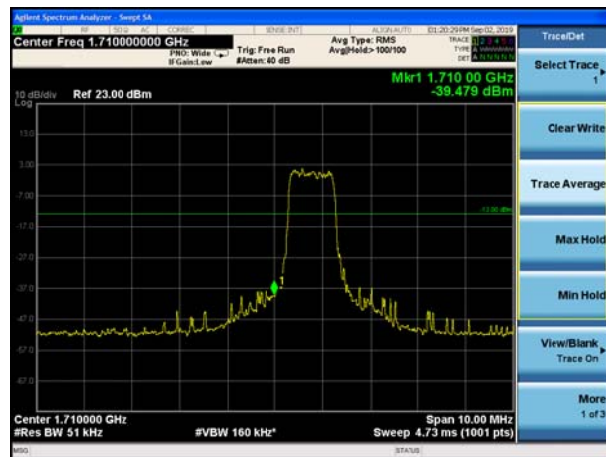


LTE Band 66 16QAM 3MHz CH-High, 1 RB

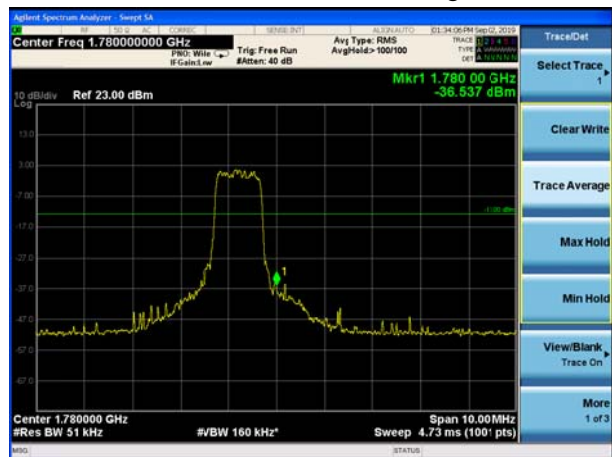




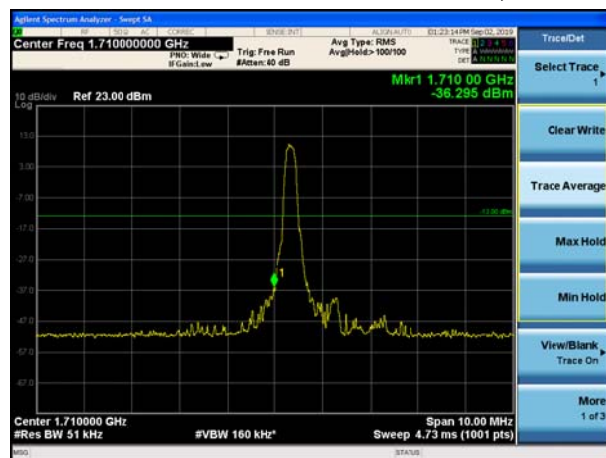
LTE Band 66 16QAM 3MHz CH-Low, 100%RB



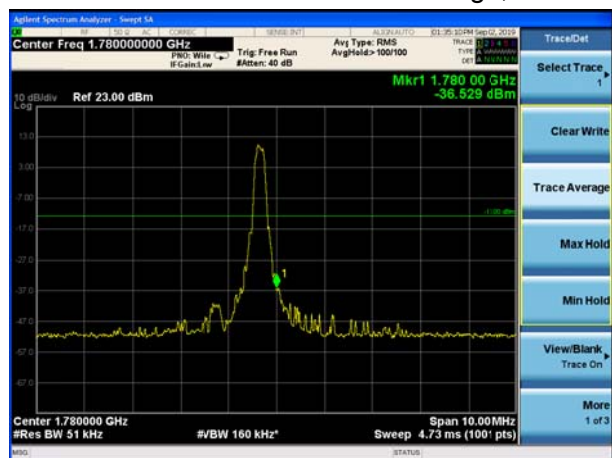
LTE Band 66 16QAM 3MHz CH-High, 100%RB



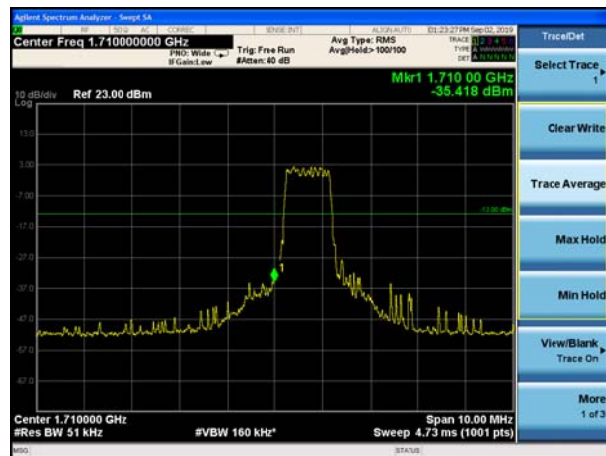
LTE Band 66 16QAM 5MHz CH-Low, 1 RB



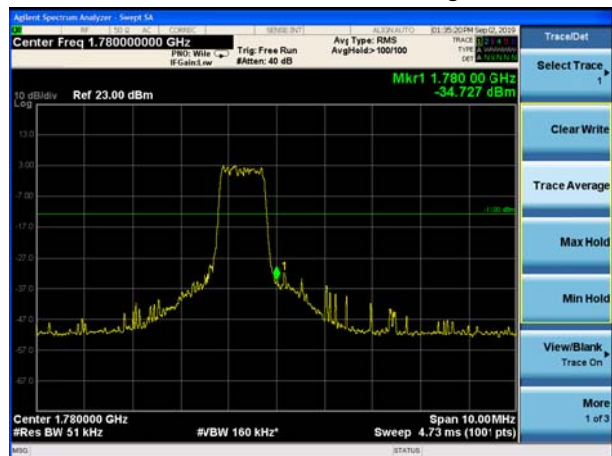
LTE Band 66 16QAM 5MHz CH-High, 1 RB



LTE Band 66 16QAM 5MHz CH-Low, 100%RB

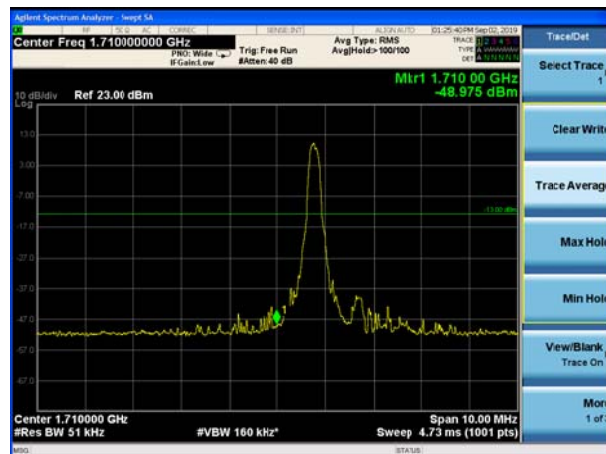


LTE Band 66 16QAM 5MHz CH-High, 100%RB

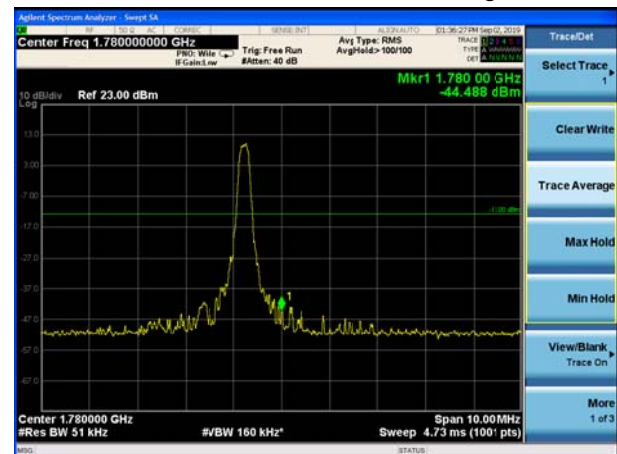




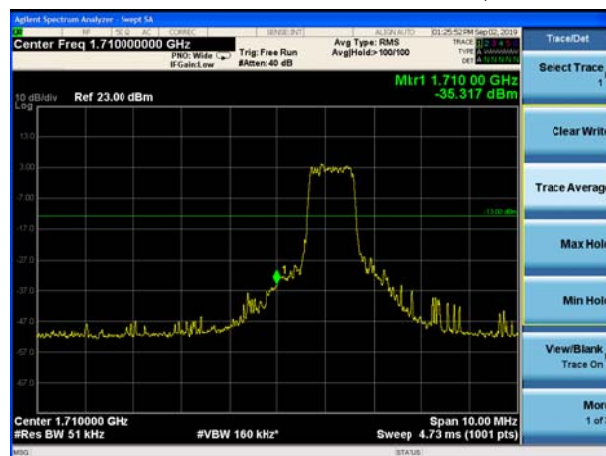
LTE Band 66 16QAM 10MHz CH-Low, 1 RB



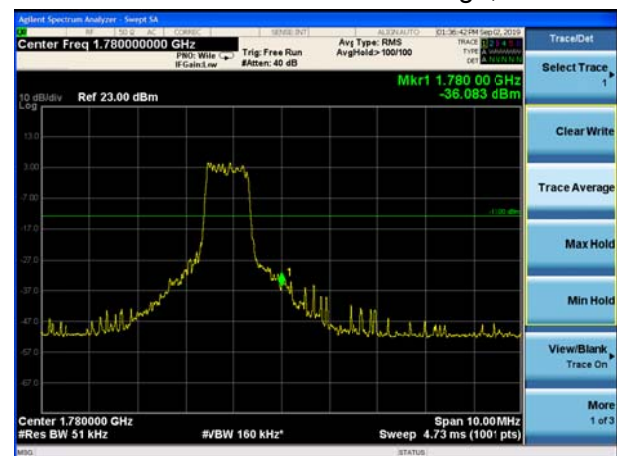
LTE Band 66 16QAM 10MHz CH-High, 1 RB



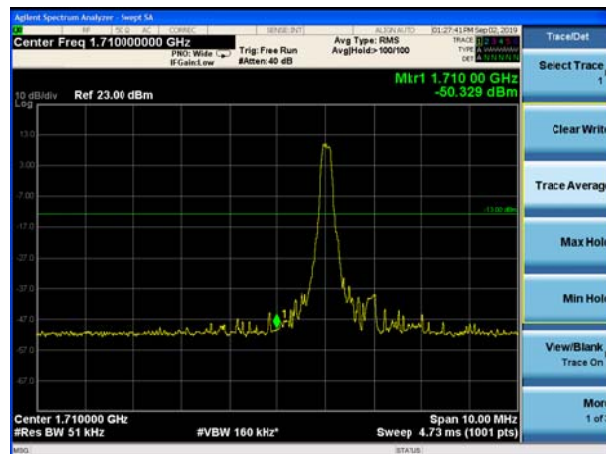
LTE Band 66 16QAM 10MHz CH-Low, 100%RB



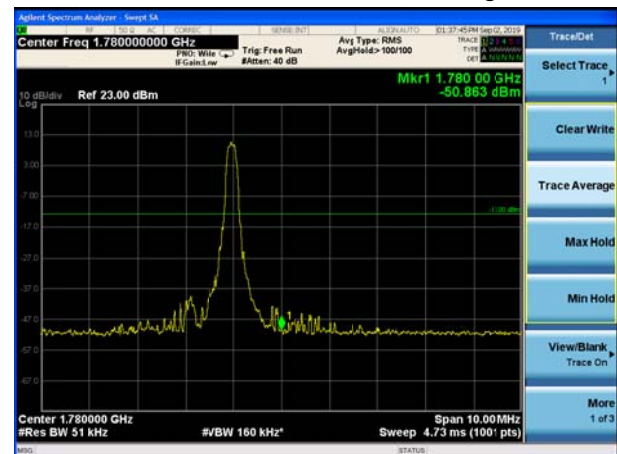
LTE Band 66 16QAM 10MHz CH-High, 100%RB



LTE Band 66 16QAM 15MHz CH-Low, 1 RB

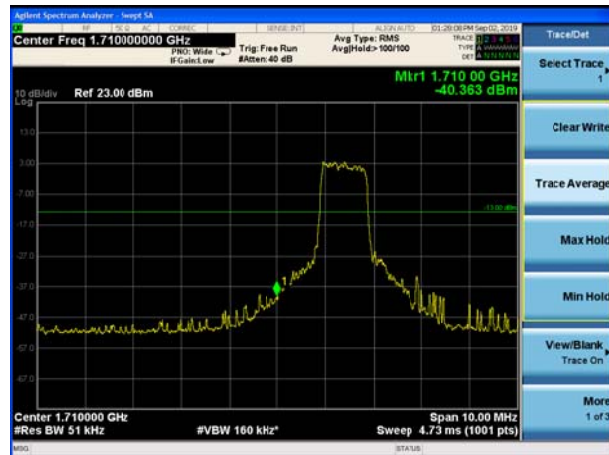


LTE Band 66 16QAM 15MHz CH-High, 1 RB

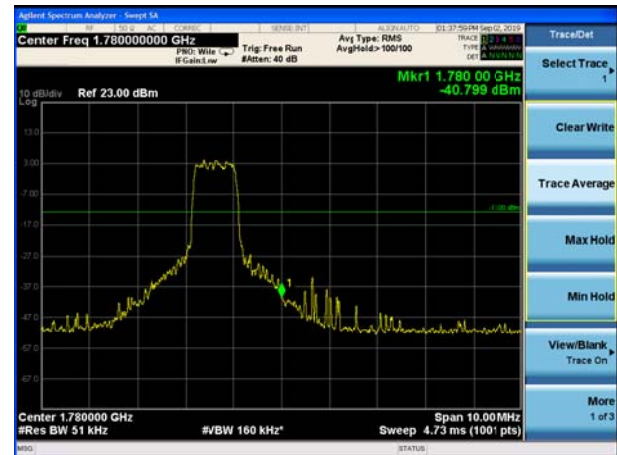




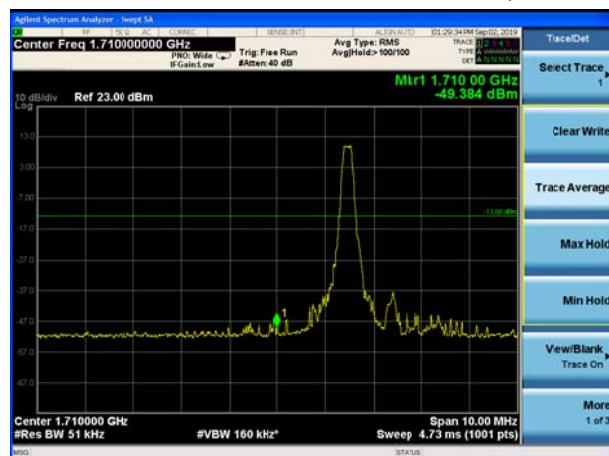
LTE Band 66 16QAM 15MHz CH-Low, 100%RB



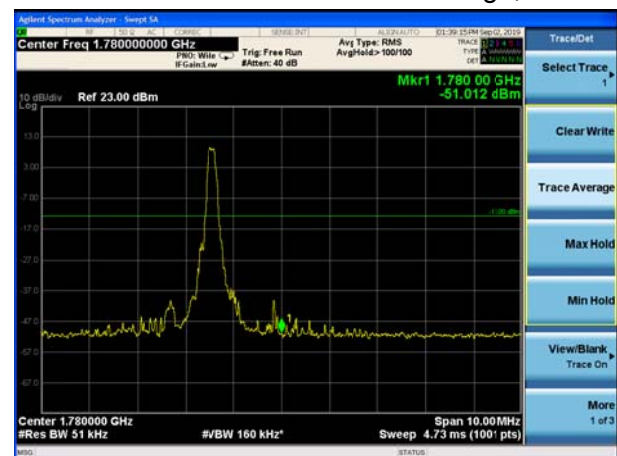
LTE Band 66 16QAM 15MHz CH-High, 100%RB



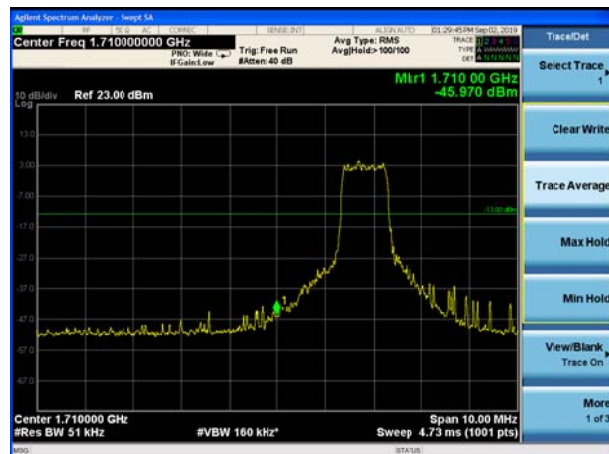
LTE Band 66 16QAM 20MHz CH-Low, 1 RB



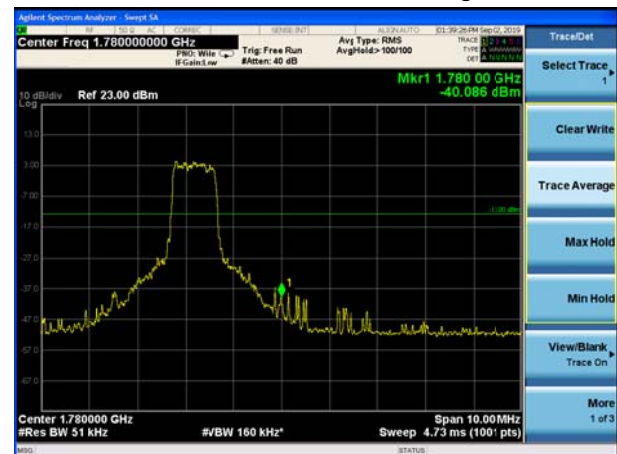
LTE Band 66 16QAM 20MHz CH-High, 1 RB



LTE Band 66 16QAM 20MHz CH-Low, 100%RB

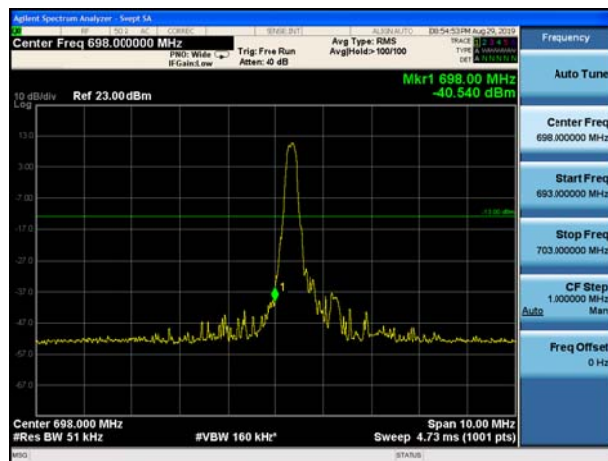


LTE Band 66 16QAM 20MHz CH-High, 100%RB

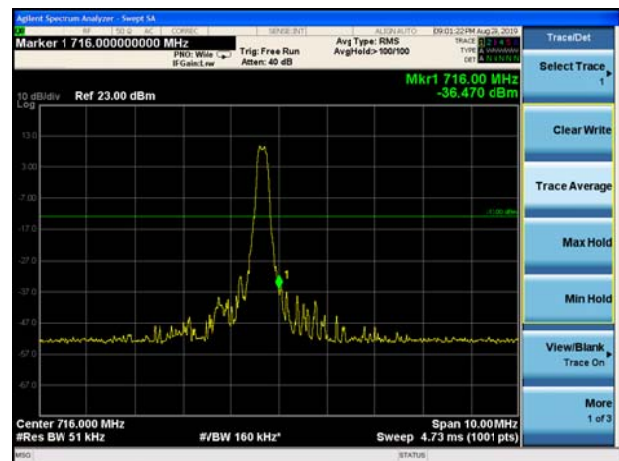




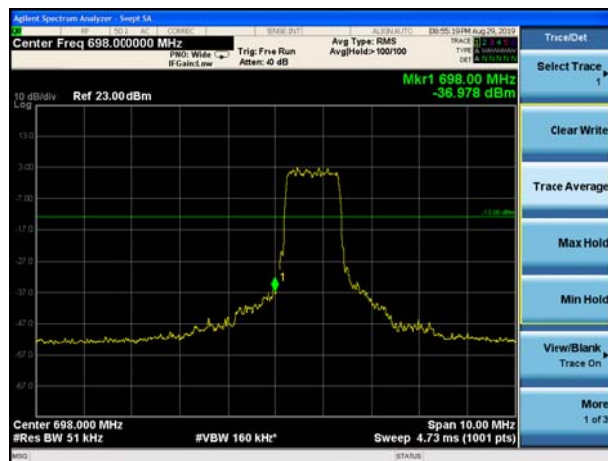
LTE Band 85 QPSK 5MHz CH-Low, 1 RB



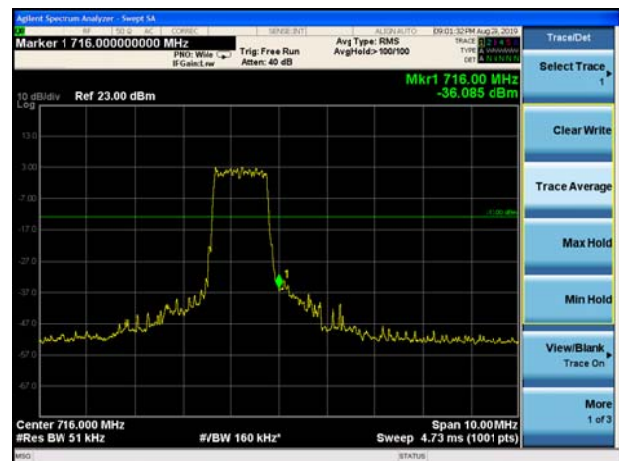
LTE Band 85 QPSK 5MHz CH-High, 1 RB



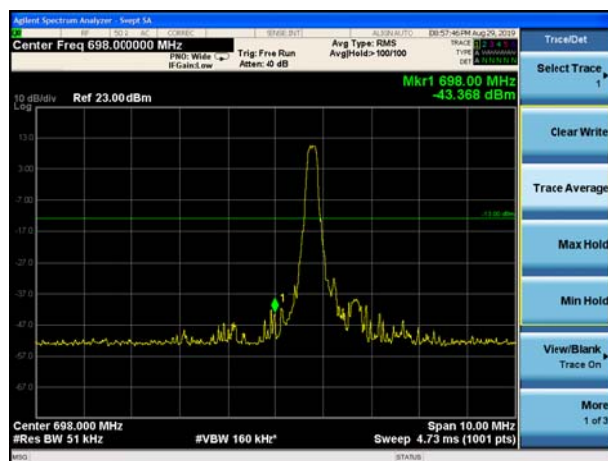
LTE Band 85 QPSK 5MHz CH-Low, 100%RB



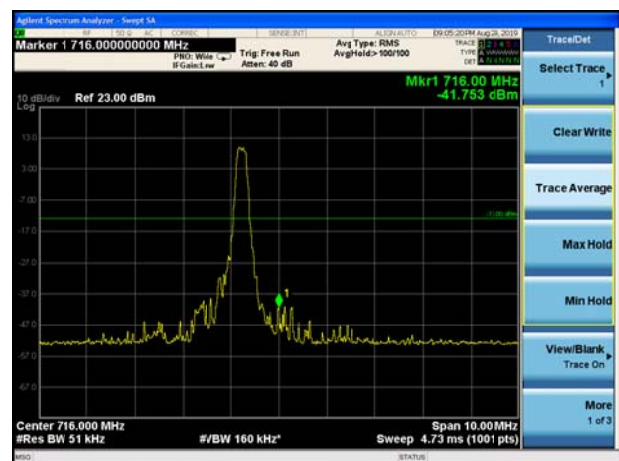
LTE Band 85 QPSK 5MHz CH-High, 100%RB



LTE Band 85 QPSK 10MHz CH-Low, 1 RB



LTE Band 85 QPSK 10MHz CH-High, 1 RB

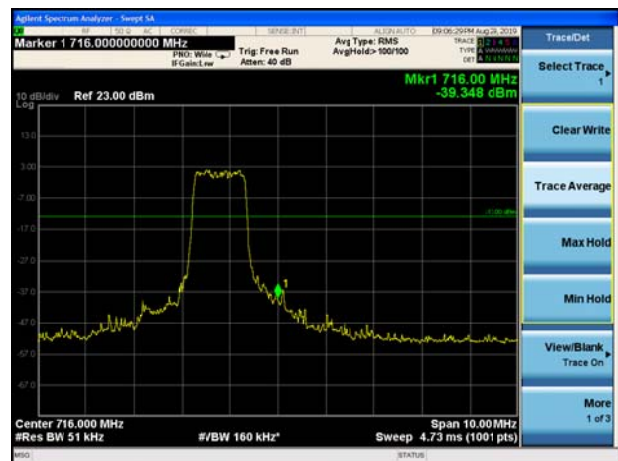




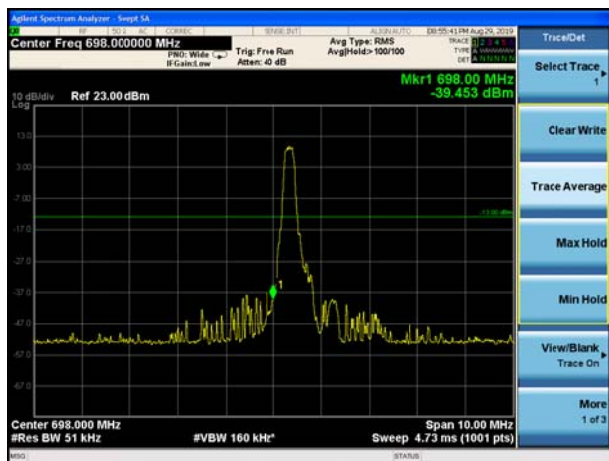
LTE Band 85 QPSK 10MHz CH-Low, 100%RB



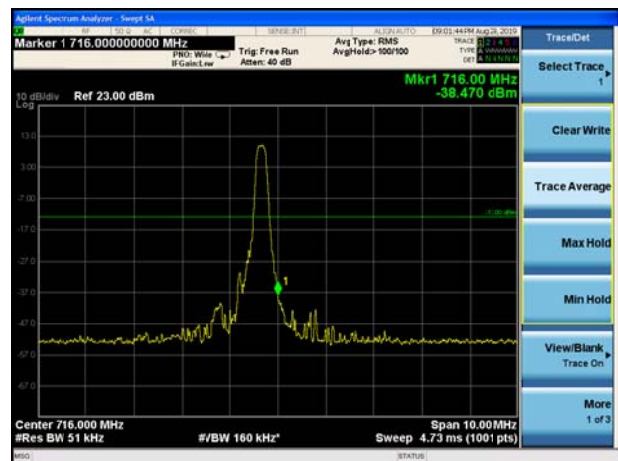
LTE Band 85 QPSK 10MHz CH-High, 100%RB



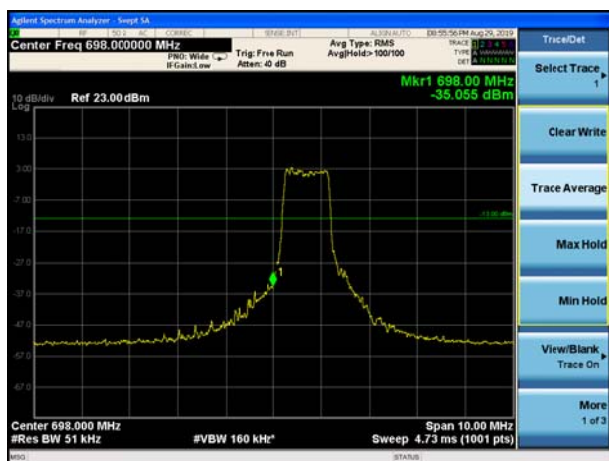
LTE Band 85 16QAM 5MHz CH-Low, 1 RB



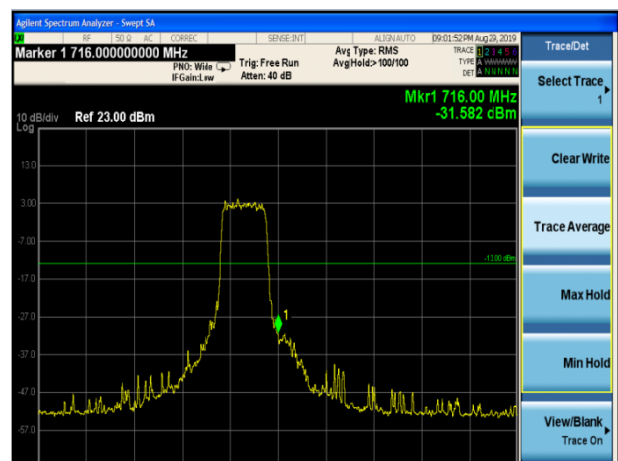
LTE Band 85 16QAM 5MHz CH-High, 1 RB



LTE Band 85 16QAM 5MHz CH-Low, 100%RB

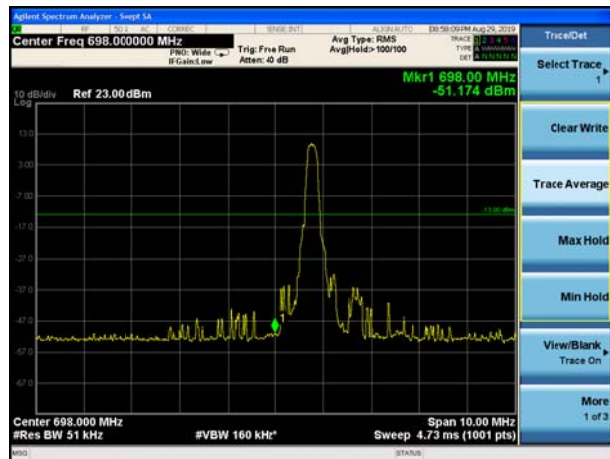


LTE Band 85 16QAM 5MHz CH-High, 100%RB

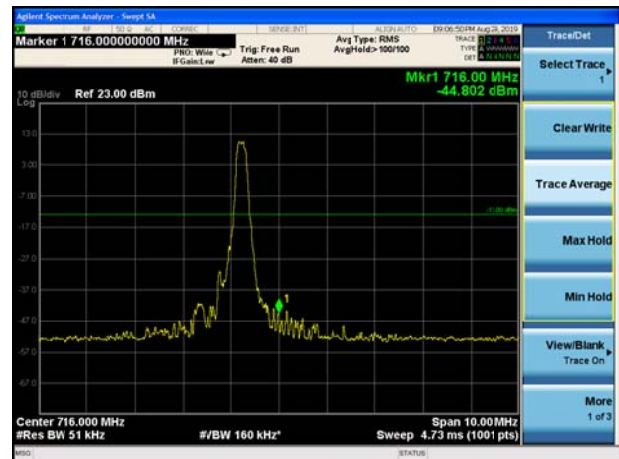




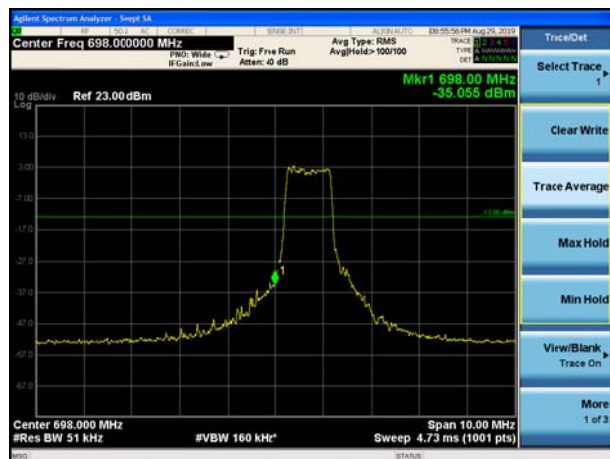
LTE Band 85 16QAM 10MHz CH-Low, 1 RB



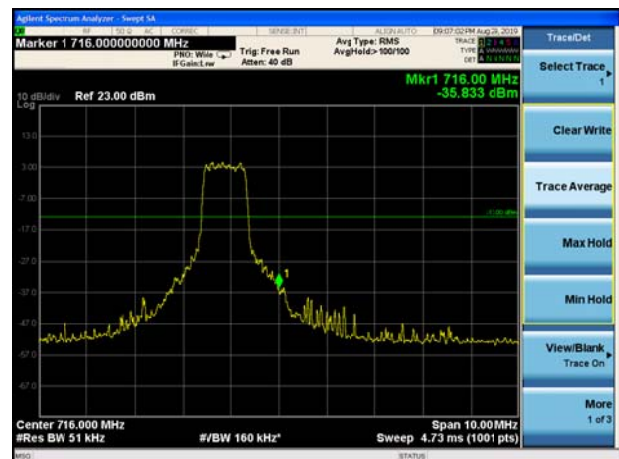
LTE Band 85 16QAM 10MHz CH-High, 1 RB



LTE Band 85 16QAM 10MHz CH-Low, 100%RB



LTE Band 85 16QAM 10MHz CH-High, 100%RB



5.4 Peak-to-Average Power Ratio (PAPR)

Ambient condition

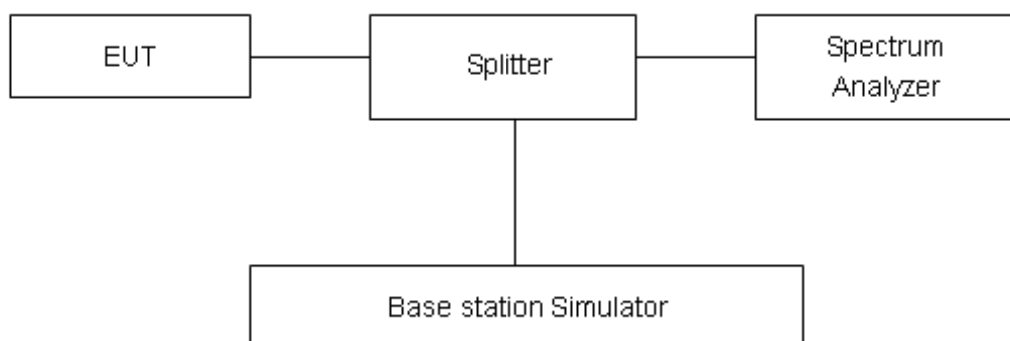
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

Measure the total peak power and record as PPK. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$\text{PAPR (dB)} = \text{PPk (dBm)} - \text{PAvg (dBm)}.$$

Test Setup



Limits

Rule Part 27.50(d)(5) Equipment employed must be authorized in accordance with the provisions of 24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

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

Original:

Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)			Limit (dB)	Conclusion
				Peak(dBm)	Avg(dBm)	PAPR(dB)		
LTE Band4	1.4MHz	QPSK	20175/1732.5	23.22	13.32	9.90	≤13	PASS
		16QAM	20175/1732.5	23.47	12.67	10.80	≤13	PASS
	3MHz	QPSK	20175/1732.5	22.80	12.53	10.27	≤13	PASS
		16QAM	20175/1732.5	23.43	13.07	10.36	≤13	PASS
	5MHz	QPSK	20175/1732.5	23.48	14.13	9.35	≤13	PASS
		16QAM	20175/1732.5	24.03	13.91	10.12	≤13	PASS
	10MHz	QPSK	20175/1732.5	23.46	13.97	9.49	≤13	PASS
		16QAM	20175/1732.5	24.56	15.80	8.76	≤13	PASS
	15MHz	QPSK	20175/1732.5	24.22	14.44	9.78	≤13	PASS
		16QAM	20175/1732.5	24.68	14.70	9.98	≤13	PASS
	20MHz	QPSK	20175/1732.5	24.24	15.38	8.86	≤13	PASS
		16QAM	20175/1732.5	24.66	14.76	9.90	≤13	PASS

Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)			Limit (dB)	Conclusion
				Peak(dBm)	Avg(dBm)	PAPR(dB)		
LTE Band12	1.4MHz	QPSK	23095/707.5	25.21	15.65	9.56	≤13	PASS
		16QAM	23095/707.5	25.62	15.96	9.66	≤13	PASS
	3MHz	QPSK	23095/707.5	24.77	13.41	11.36	≤13	PASS
		16QAM	23095/707.5	25.52	13.97	11.55	≤13	PASS
	5MHz	QPSK	23095/707.5	25.71	17.64	8.07	≤13	PASS
		16QAM	23095/707.5	26.02	17.84	8.18	≤13	PASS
	10MHz	QPSK	23095/707.5	25.56	16.28	9.28	≤13	PASS
		16QAM	23095/707.5	26.07	17.73	8.34	≤13	PASS

Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)			Limit (dB)	Conclusion
				Peak(dBm)	Avg(dBm)	PAPR(dB)		
LTE Band13	5MHz	QPSK	23230/782	24.95	15.84	9.11	≤13	PASS
		16QAM	23230/782	25.48	16.28	9.20	≤13	PASS
	10MHz	QPSK	23230/782	24.68	15.70	8.98	≤13	PASS
		16QAM	23230/782	25.47	15.90	9.57	≤13	PASS



Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)			Limit (dB)	Conclusi on
				Peak(dBm)	Avg(dBm)	PAPR(dB)		
LTE Ban66	1.4MHz	QPSK	132322/1745	23.17	13.49	9.68	≤13	PASS
		16QAM	132322/1745	23.69	12.90	10.79	≤13	PASS
	3MHz	QPSK	132322/1745	22.91	12.01	10.90	≤13	PASS
		16QAM	132322/1745	23.79	12.34	11.45	≤13	PASS
	5MHz	QPSK	132322/1745	23.79	14.45	9.34	≤13	PASS
		16QAM	132322/1745	24.31	14.55	9.76	≤13	PASS
	10MHz	QPSK	132322/1745	23.68	13.97	9.71	≤13	PASS
		16QAM	132322/1745	24.74	15.53	9.21	≤13	PASS
	15MHz	QPSK	132322/1745	24.31	15.20	9.11	≤13	PASS
		16QAM	132322/1745	24.76	15.00	9.76	≤13	PASS
	20MHz	QPSK	132322/1745	24.29	15.57	8.72	≤13	PASS
		16QAM	132322/1745	24.69	14.92	9.77	≤13	PASS

Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)			Limit (dB)	Conclusi on
				Peak(dBm)	Avg(dBm)	PAPR(dB)		
LTE Band85	5MHz	QPSK	134092/707	24.06	14.07	9.99	≤13	PASS
		16QAM	134092/707	24.68	14.89	9.79	≤13	PASS
	10MHz	QPSK	134092/707	24.02	14.72	9.30	≤13	PASS
		16QAM	134092/707	25.11	15.61	9.50	≤13	PASS

5.5 Frequency Stability

Ambient condition

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

Method of Measurement

Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -40°C to +85°C in 10°C step size.

(1) With all power removed, the temperature was decreased to -10°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -40°C to +85°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

Frequency Stability (Voltage Variation)

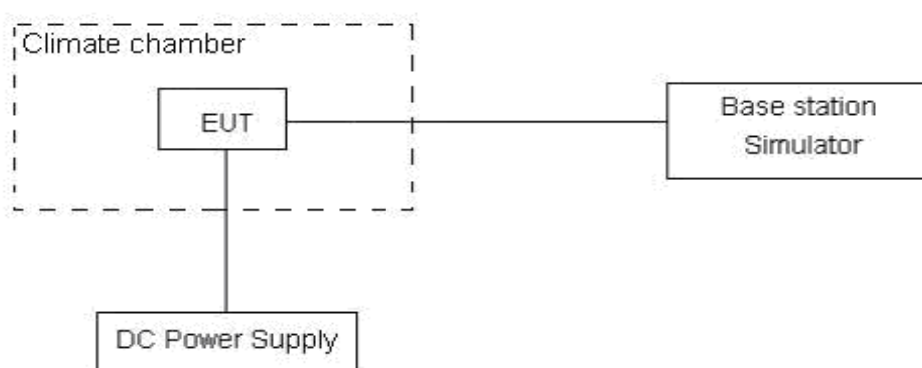
The frequency stability shall be measured with variation of primary supply voltage as follows:

(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery-operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 2.6 V and 4.8V, with a nominal voltage of 3.3V.

Test setup



Limits

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3$, $U = 0.01\text{ppm}$.



Test Result

Original:

LTE Band 4						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	3.90	13.54	0.00208	0.00720	PASS
Extreme (85℃)		14.71	15.79	0.00782	0.00840	PASS
Extreme (80℃)		16.56	3.95	0.00881	0.00210	PASS
Extreme (70℃)		4.47	12.80	0.00238	0.00681	PASS
Extreme (60℃)		16.41	6.69	0.00873	0.00356	PASS
Extreme (50℃)		7.32	7.93	0.00389	0.00422	PASS
Extreme (40℃)		12.49	16.52	0.00664	0.00878	PASS
Extreme (30℃)		7.28	10.17	0.00387	0.00541	PASS
Extreme (20℃)		11.06	15.25	0.00588	0.00811	PASS
Extreme (10℃)		9.23	2.16	0.00491	0.00115	PASS
Extreme (0℃)		8.59	8.78	0.00457	0.00467	PASS
Extreme (-10℃)		8.39	1.68	0.00446	0.00089	PASS
Extreme (-20℃)		12.58	1.30	0.00669	0.00069	PASS
Extreme (-30℃)		16.51	10.71	0.00878	0.00570	PASS
Extreme (-40℃)		3.82	17.50	0.00203	0.00931	PASS
25℃	LV	11.81	11.04	0.00628	0.00587	PASS
	HV	11.62	17.54	0.00618	0.00933	PASS

LTE Band 12						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	12.53	3.48	0.00666	0.00185	PASS
Extreme (85℃)		15.97	14.78	0.00850	0.00786	PASS
Extreme (80℃)		11.46	14.56	0.00610	0.00775	PASS
Extreme (70℃)		8.85	12.25	0.00471	0.00651	PASS
Extreme (60℃)		3.72	4.83	0.00198	0.00257	PASS
Extreme (50℃)		10.61	11.45	0.00564	0.00609	PASS
Extreme (40℃)		12.43	17.60	0.00661	0.00936	PASS
Extreme (30℃)		17.92	13.78	0.00953	0.00733	PASS
Extreme (20℃)		9.49	17.11	0.00505	0.00910	PASS
Extreme (10℃)		16.01	14.10	0.00851	0.00750	PASS
Extreme (0℃)		5.81	17.62	0.00309	0.00937	PASS



Extreme (-10℃)		11.24	5.08	0.00598	0.00270	PASS
Extreme (-20℃)		5.65	14.52	0.00300	0.00772	PASS
Extreme (-30℃)		13.44	1.57	0.00715	0.00083	PASS
Extreme (-40℃)		7.68	12.06	0.00409	0.00641	PASS
25℃	LV	7.56	11.96	0.00402	0.00636	PASS
	HV	13.32	10.72	0.00708	0.00570	PASS

LTE Band 13						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	9.59	10.61	0.00510	0.00564	PASS
Extreme (85℃)		15.19	9.19	0.00808	0.00489	PASS
Extreme (80℃)		14.51	15.91	0.00772	0.00846	PASS
Extreme (70℃)		2.05	15.82	0.00109	0.00842	PASS
Extreme (60℃)		7.80	1.21	0.00415	0.00064	PASS
Extreme (50℃)		15.19	1.88	0.00808	0.00100	PASS
Extreme (40℃)		9.17	5.92	0.00488	0.00315	PASS
Extreme (30℃)		16.67	2.13	0.00887	0.00113	PASS
Extreme (20℃)		5.98	9.38	0.00318	0.00499	PASS
Extreme (10℃)		9.85	4.71	0.00524	0.00251	PASS
Extreme (0℃)		16.17	6.49	0.00860	0.00345	PASS
Extreme (-10℃)		13.07	11.84	0.00695	0.00630	PASS
Extreme (-20℃)		8.10	4.05	0.00431	0.00215	PASS
Extreme (-30℃)		7.22	5.82	0.00384	0.00310	PASS
Extreme (-40℃)		2.55	9.06	0.00136	0.00482	PASS
25℃	LV	9.26	15.99	0.00492	0.00851	PASS
	HV	16.68	4.48	0.00887	0.00238	PASS

LTE Band 66						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz	16QAM	QPSK	16QAM	QPSK	
Temperature	Voltage					
Normal (25℃)	Normal	8.81	15.15	0.00468	0.00806	PASS
Extreme (85℃)		11.40	10.69	0.00606	0.00568	PASS
Extreme (80℃)		6.99	12.72	0.00372	0.00677	PASS
Extreme (70℃)		13.80	2.04	0.00734	0.00108	PASS
Extreme (60℃)		17.20	12.07	0.00915	0.00642	PASS