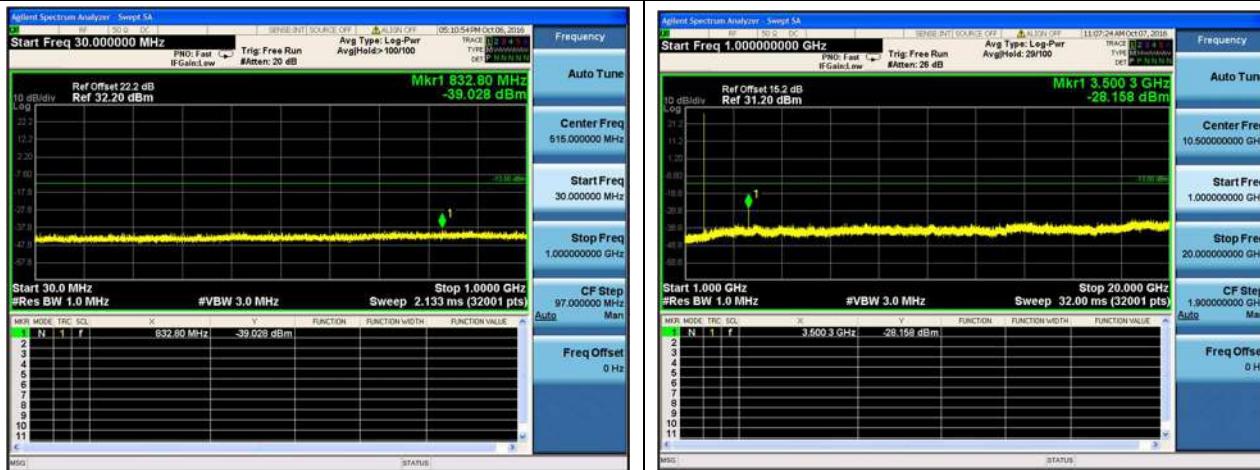
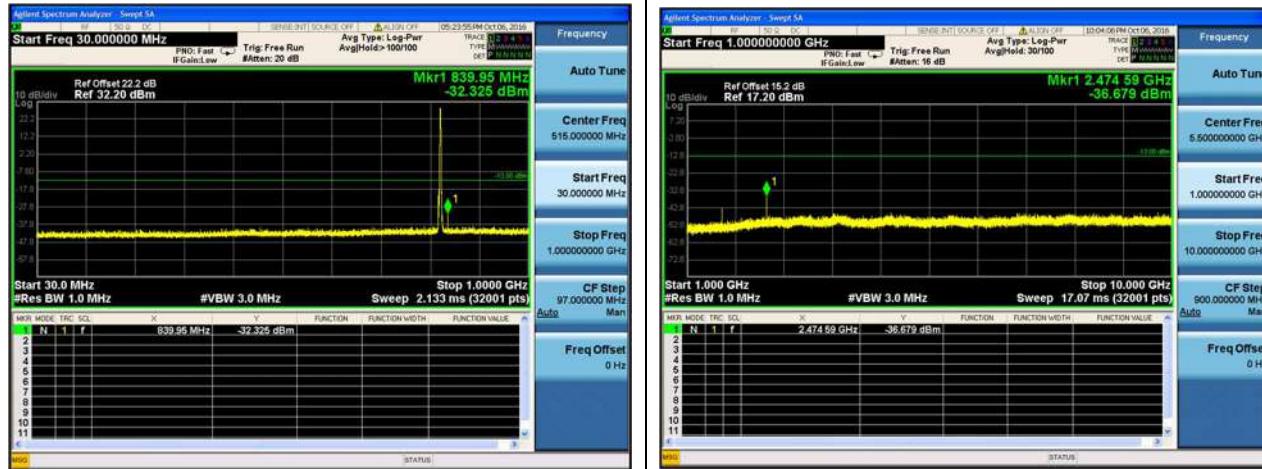


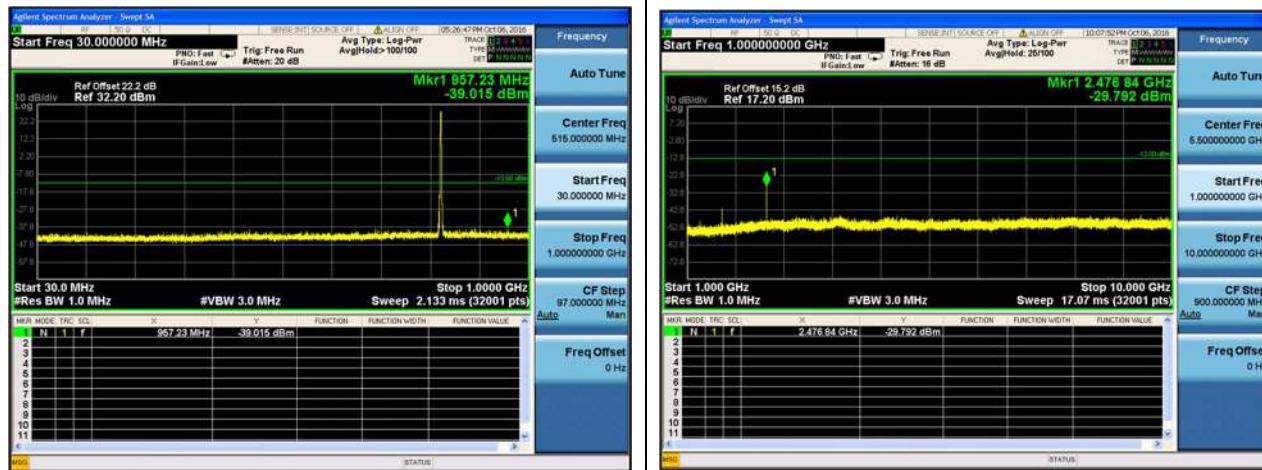
LTE Band 4 (High Channel) 20350 (1750MHz) 16QAM Bandwidth 10MHz



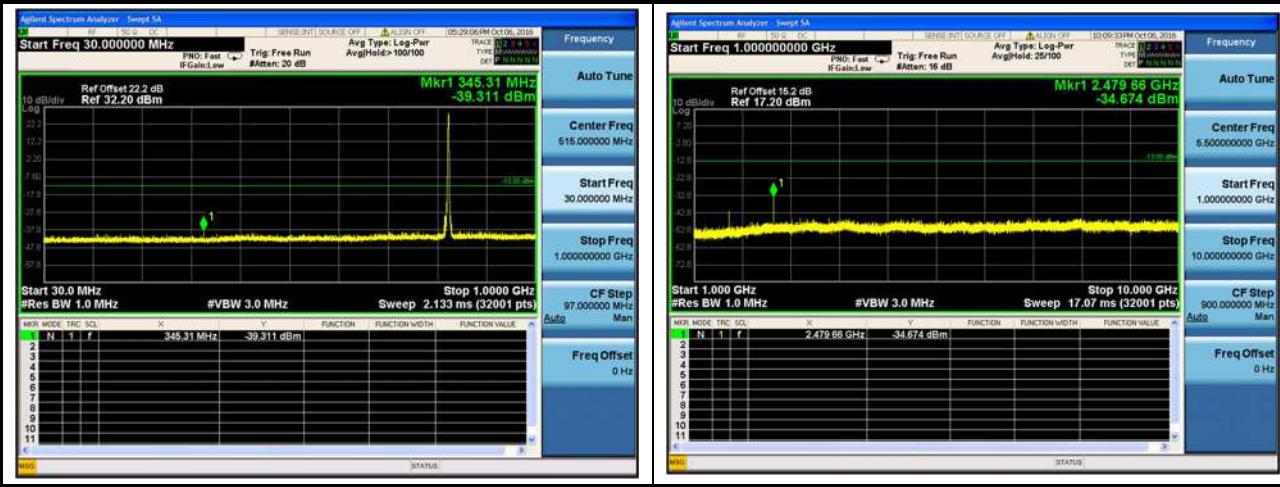
LTE Band 5 (Low Channel) 20407 (824.7MHz) QPSK Bandwidth 1.4MHz



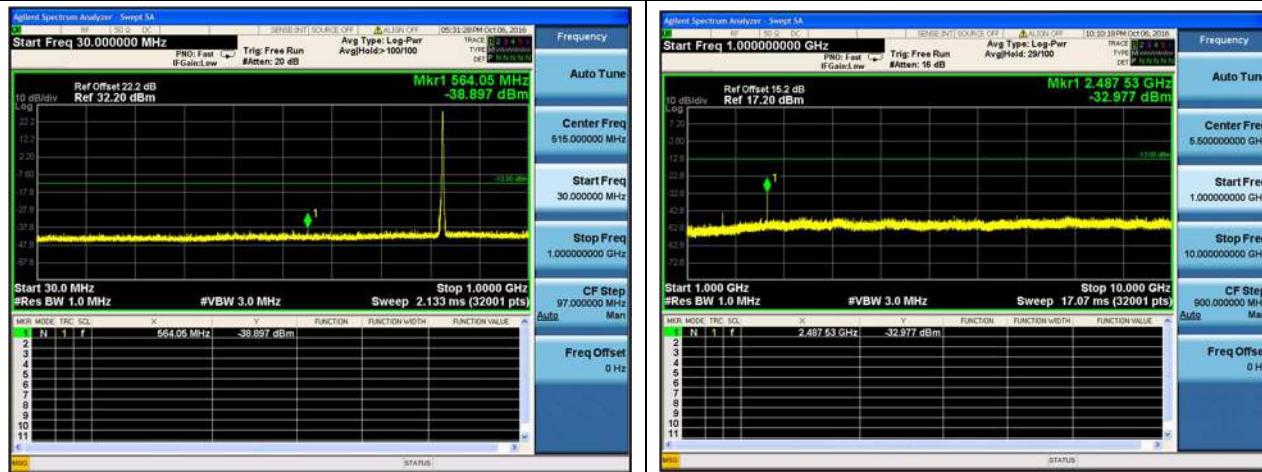
LTE Band 5 (Low Channel) 20415 (825.5MHz) QPSK Bandwidth 3MHz



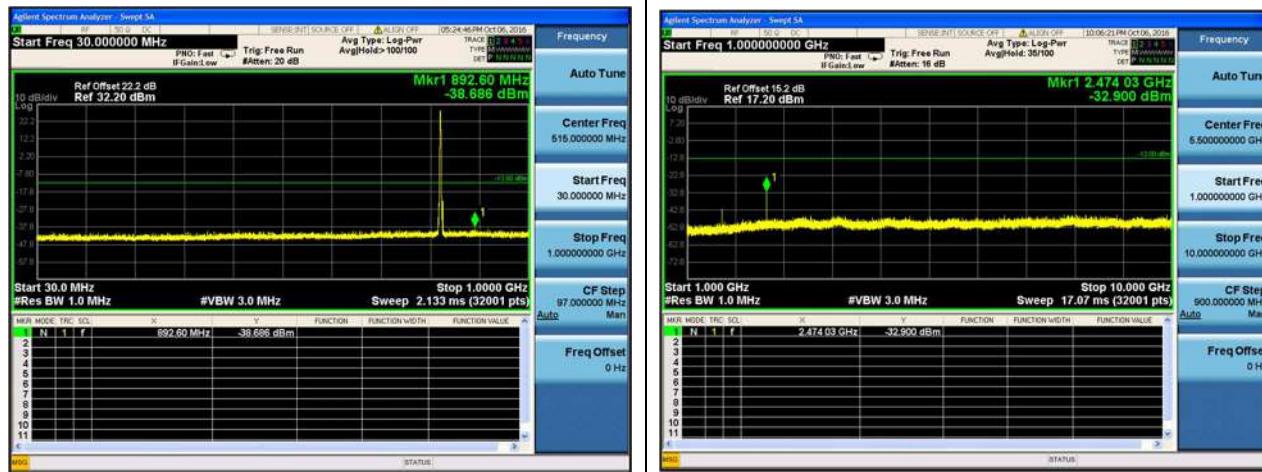
LTE Band 5 (Low Channel) 20425 (826.5MHz) QPSK Bandwidth 5MHz



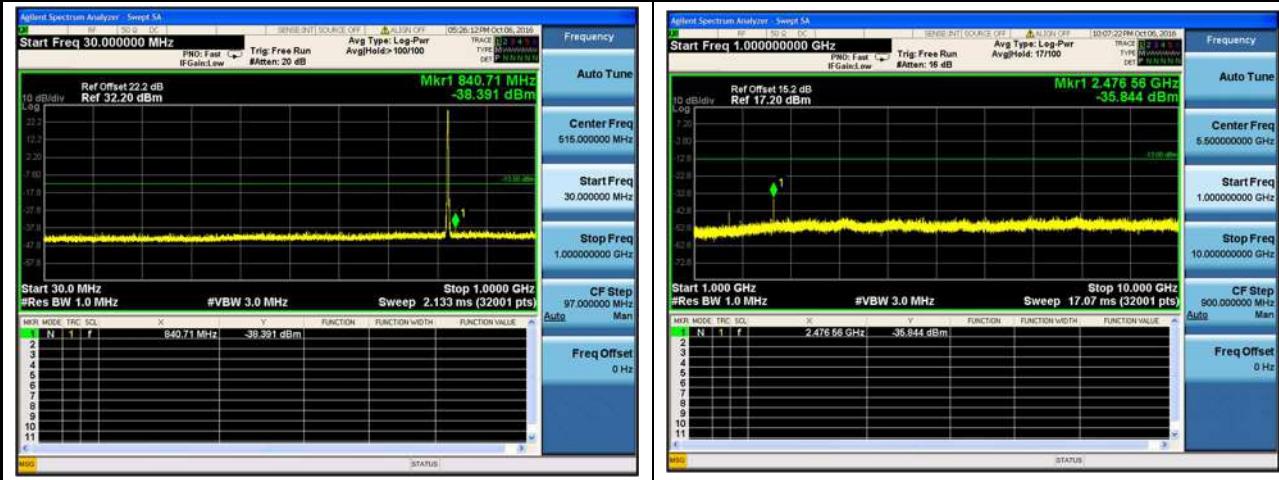
LTE Band 5 (Low Channel) 20450 (829MHz) QPSK Bandwidth 10MHz



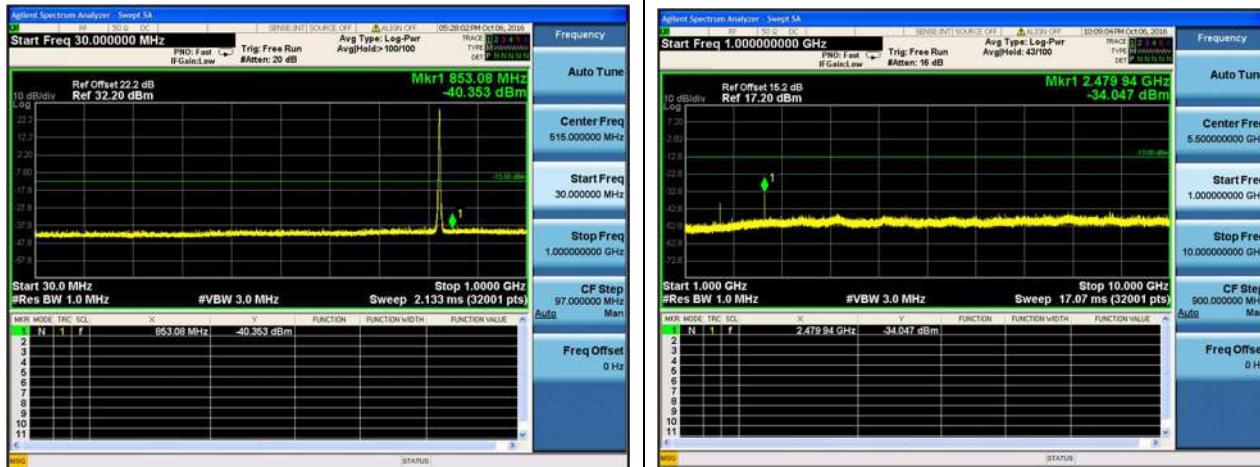
LTE Band 5 (Low Channel) 20407 (824.7MHz) 16QAM Bandwidth 1.4MHz



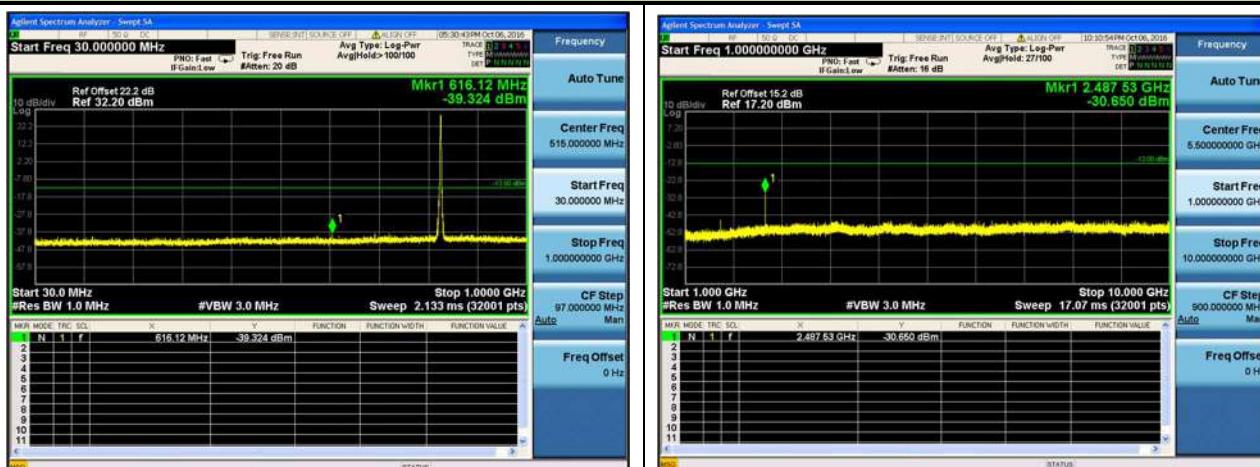
LTE Band 5 (Low Channel) 20415 (825.5MHz) 16QAM Bandwidth 3MHz



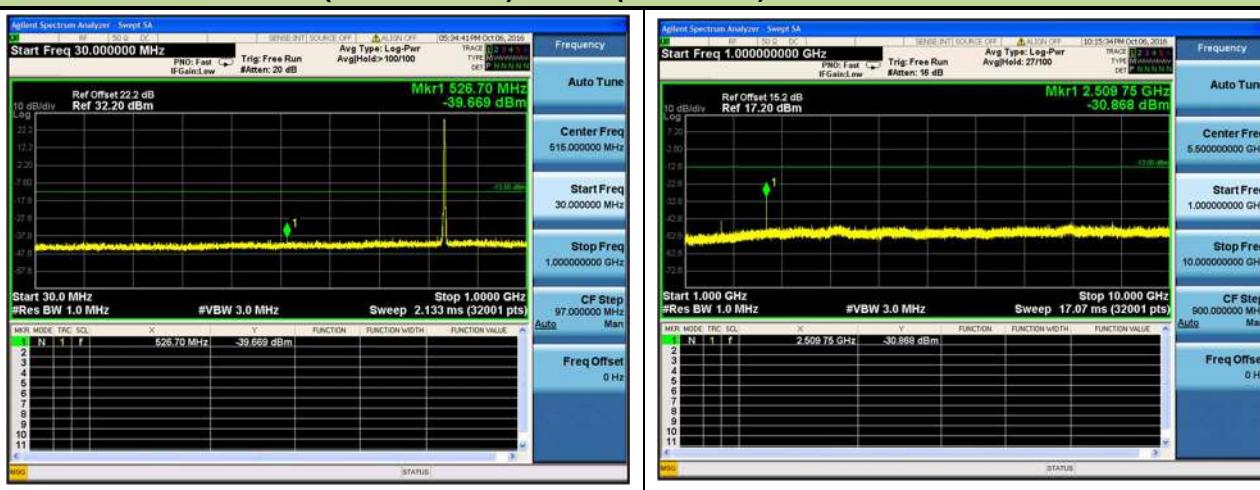
LTE Band 5 (Low Channel) 20425 (826.5MHz) 16QAM Bandwidth 5MHz



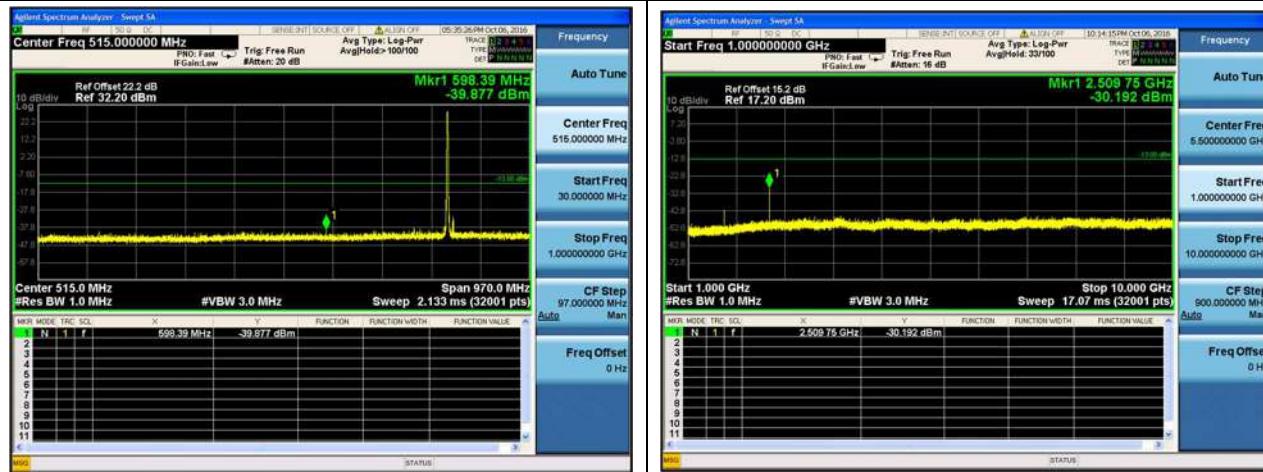
LTE Band 5 (Low Channel) 20450 (829MHz) 16QAM Bandwidth 10MHz



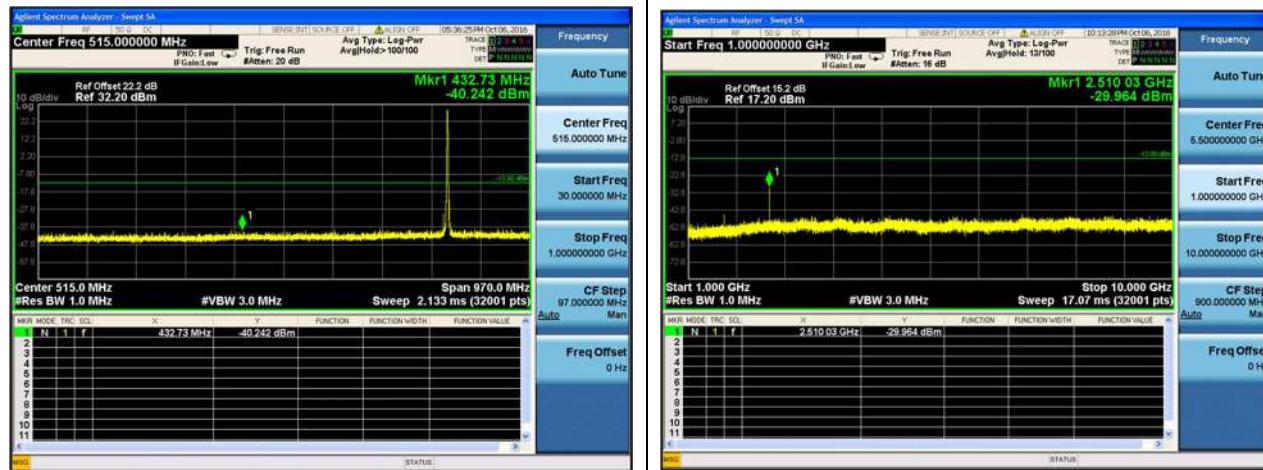
LTE Band 5 (Mid Channel) 20525 (836.5MHz) QPSK Bandwidth 1.4MHz



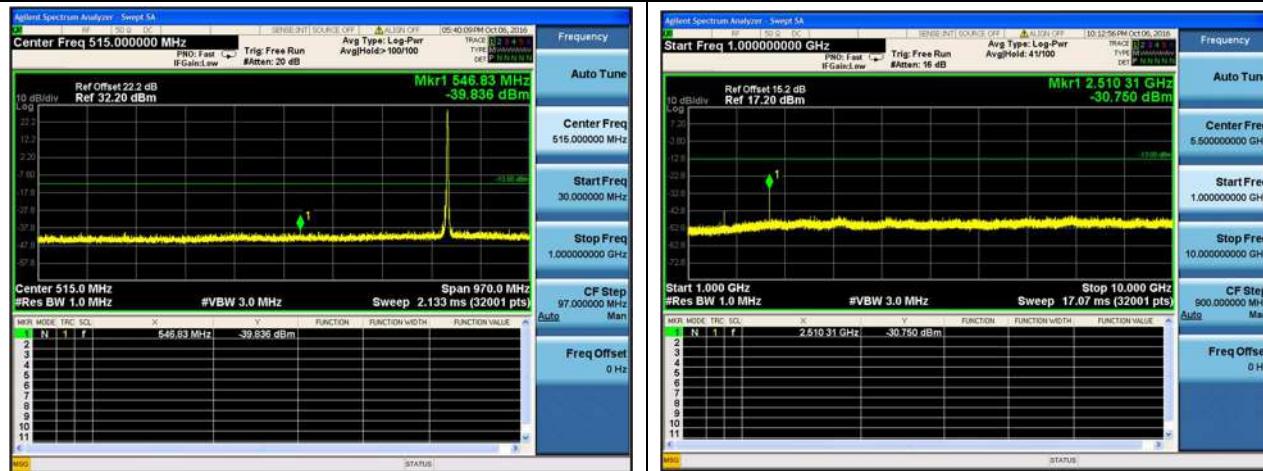
LTE Band 5 (Mid Channel) 20525 (836.5MHz) QPSK Bandwidth 3MHz



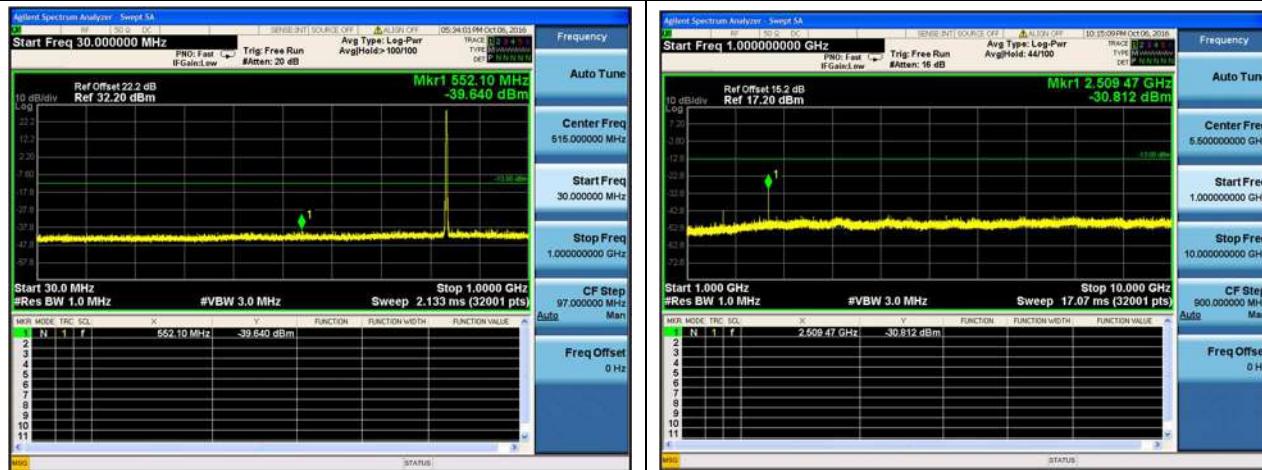
LTE Band 5 (Mid Channel) 20525 (836.5MHz) QPSK Bandwidth 5MHz



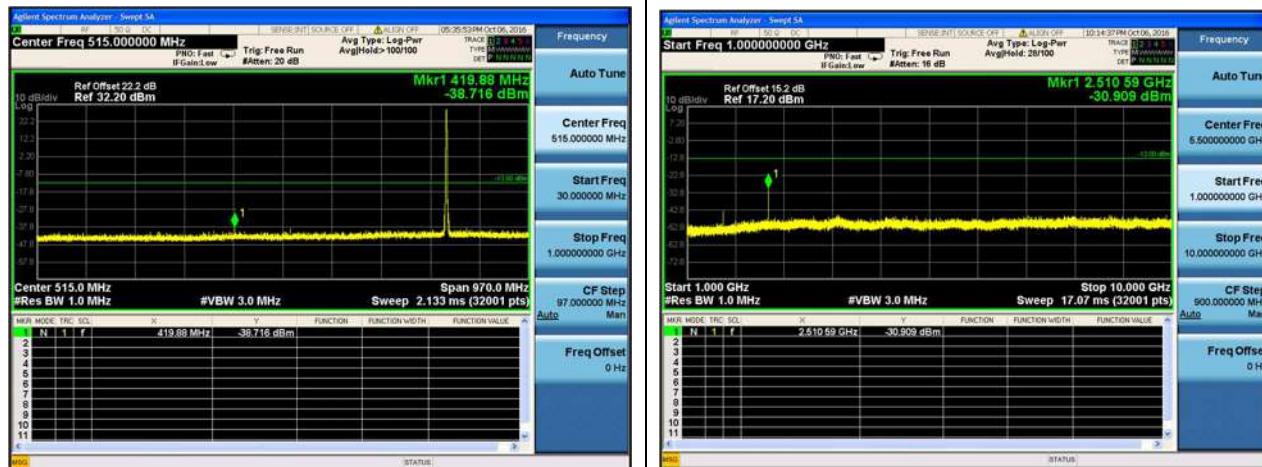
LTE Band 5 (Mid Channel) 20525 (836.5MHz) QPSK Bandwidth 10MHz



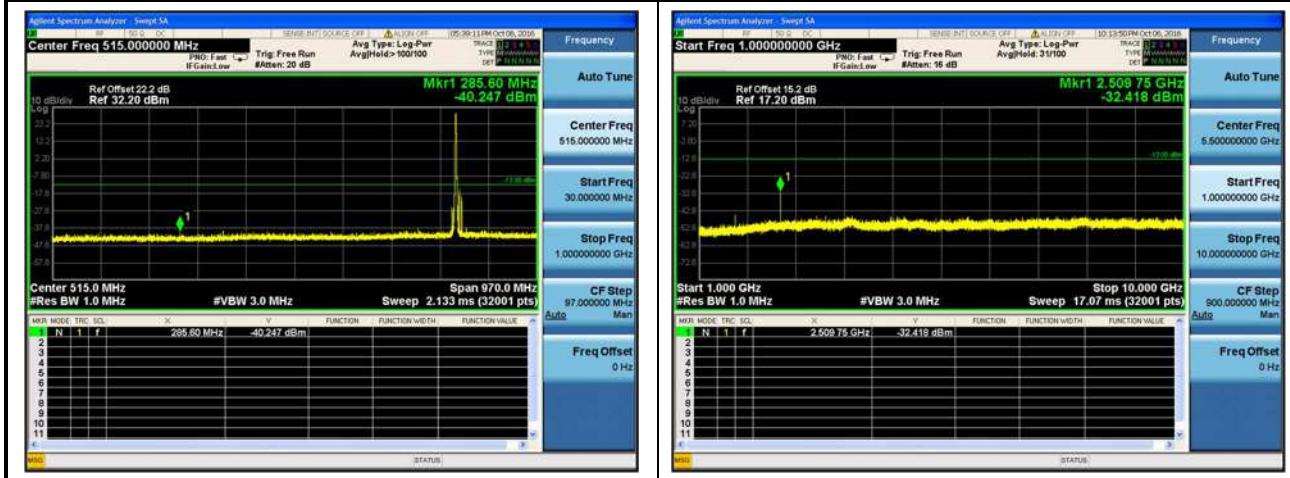
LTE Band 5 (Mid Channel) 20525 (836.5MHz) 16QAM Bandwidth 1.4MHz



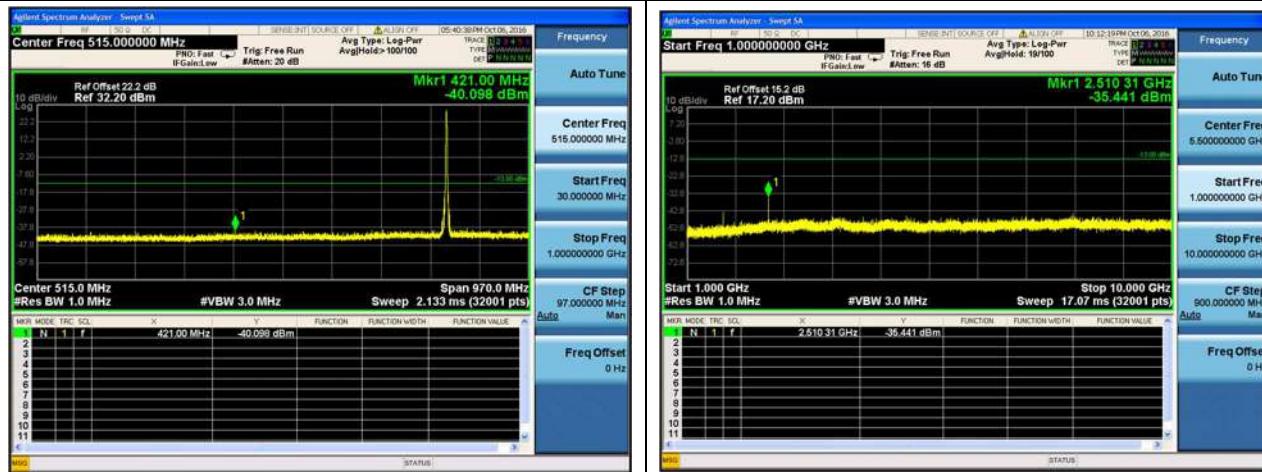
LTE Band 5 (Mid Channel) 20525 (836.5MHz) 16QAM Bandwidth 3MHz



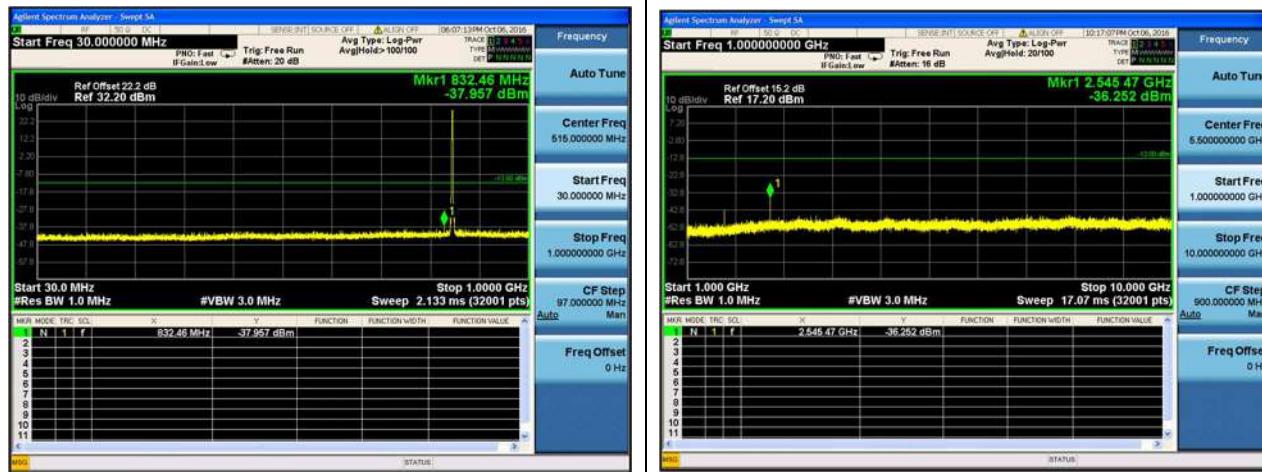
LTE Band 5 (Mid Channel) 20525 (836.5MHz) 16QAM Bandwidth 5MHz



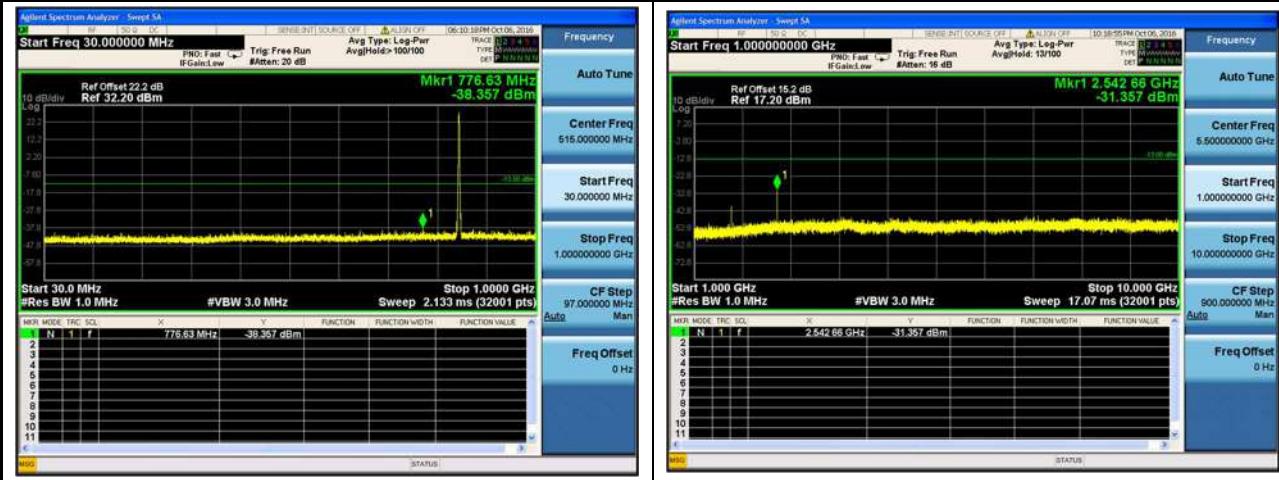
LTE Band 5 (Mid Channel) 20525 (836.5MHz) 16QAM Bandwidth 10MHz



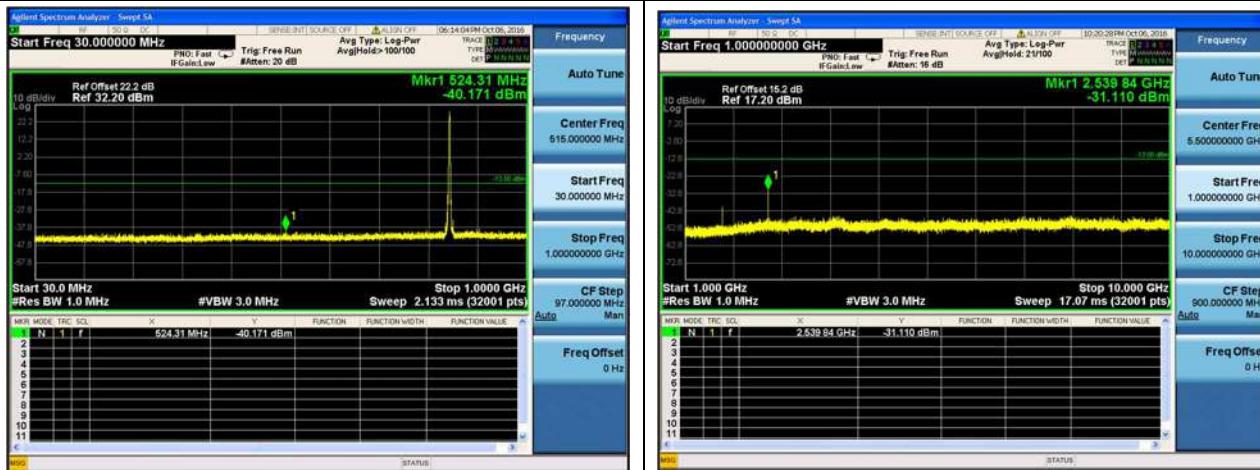
LTE Band 5 (High Channel) 20643 (848.3MHz) QPSK Bandwidth 1.4MHz



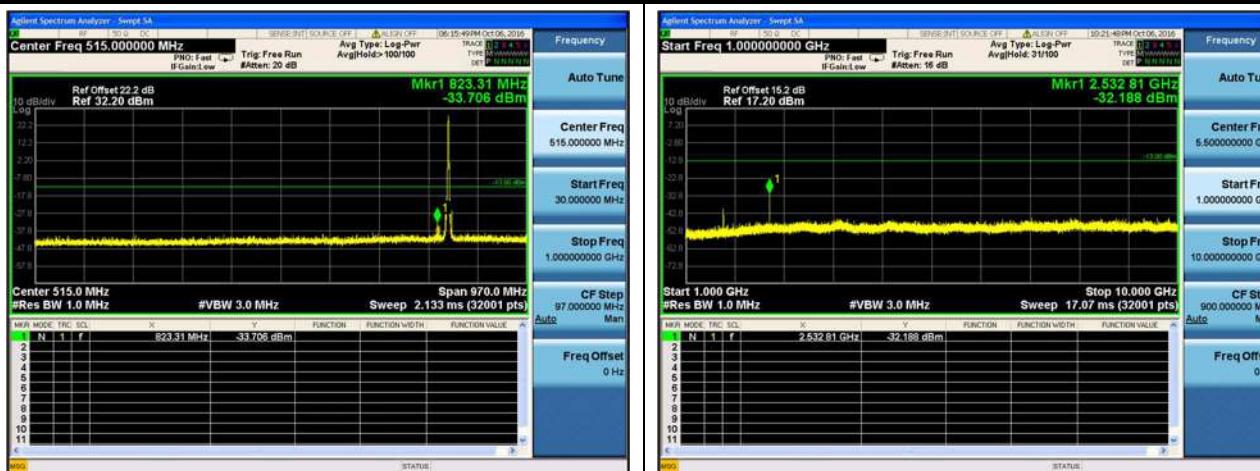
LTE Band 5 (High Channel) 20635 (847.5MHz) QPSK Bandwidth 3MHz



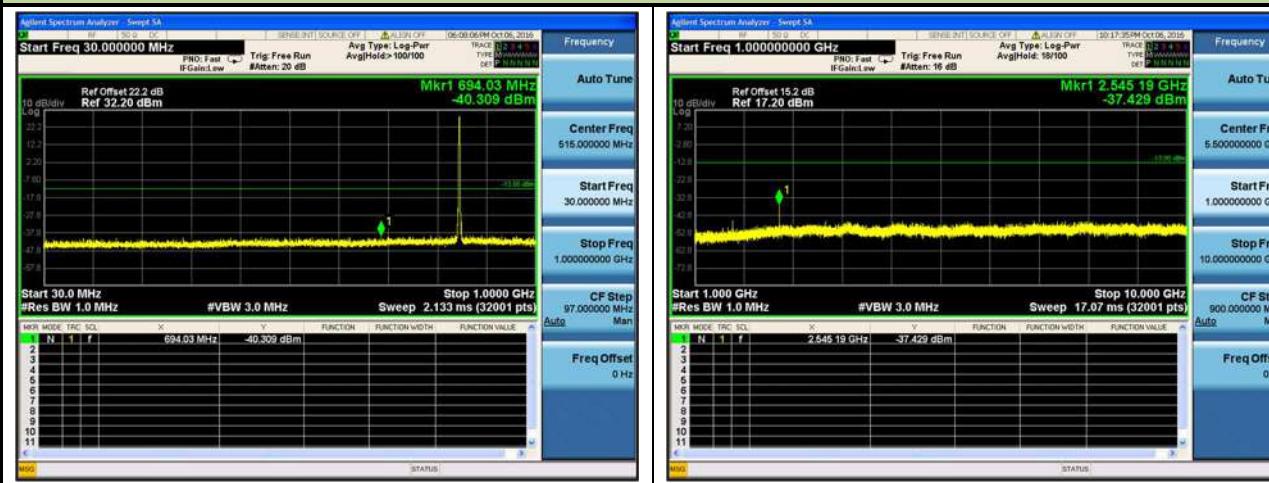
LTE Band 5 (High Channel) 20625 (846.5MHz) QPSK Bandwidth 5MHz



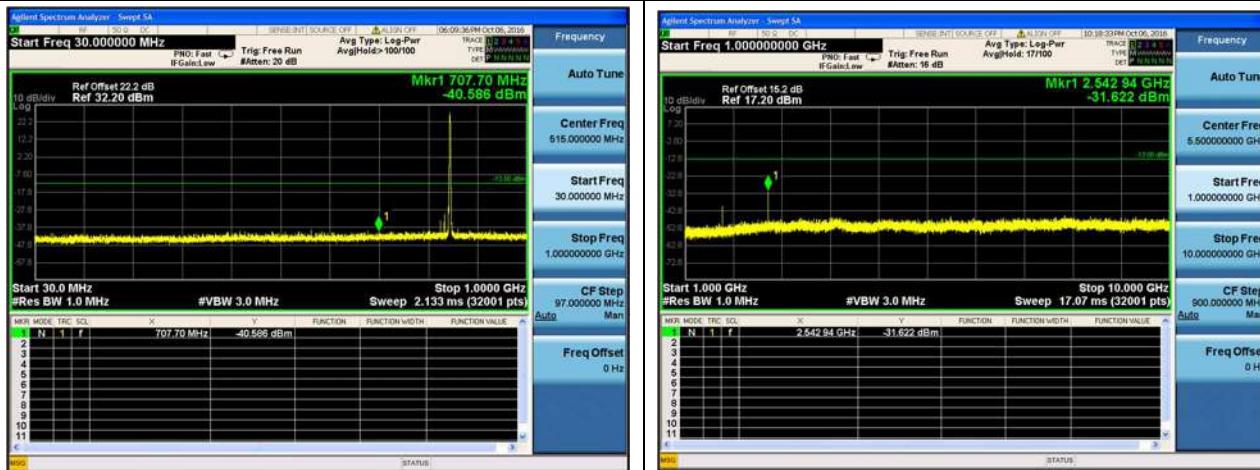
LTE Band 5 (High Channel) 20600 (844MHz) QPSK Bandwidth 10MHz



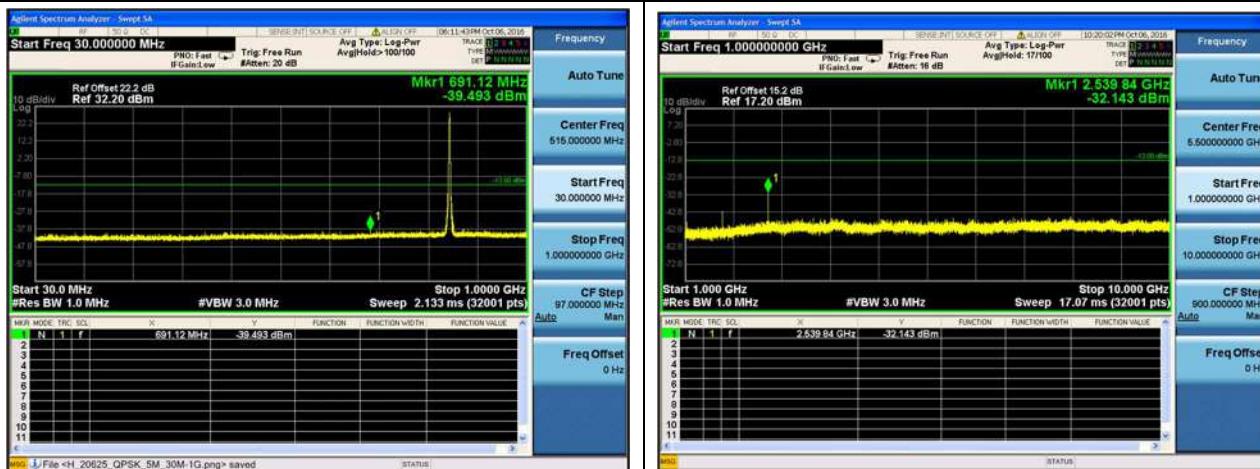
LTE Band 5 (High Channel) 20643 (848.3MHz) 16QAM Bandwidth 1.4MHz



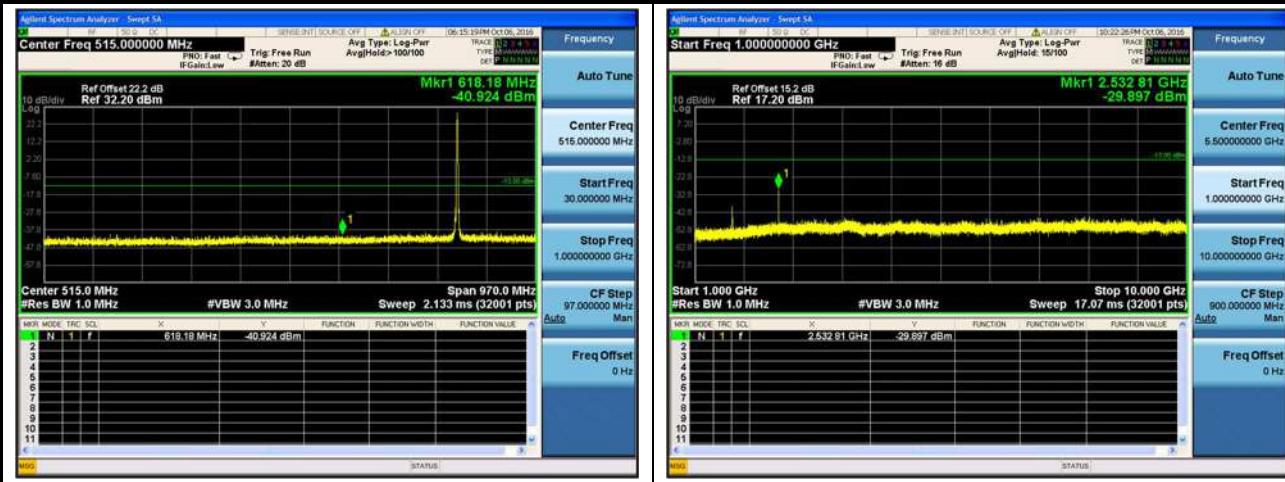
LTE Band 5 (High Channel) 20635 (847.5MHz) 16QAM Bandwidth 3MHz



LTE Band 5 (High Channel) 20625 (846.5MHz) 16QAM Bandwidth 5MHz



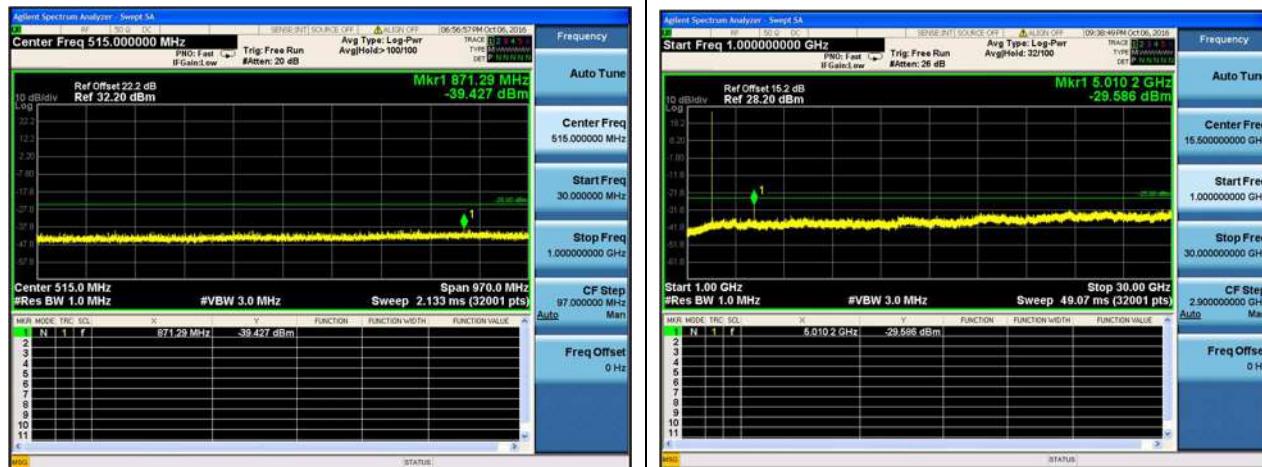
LTE Band 5 (High Channel) 20600 (844MHz) 16QAM Bandwidth 10MHz



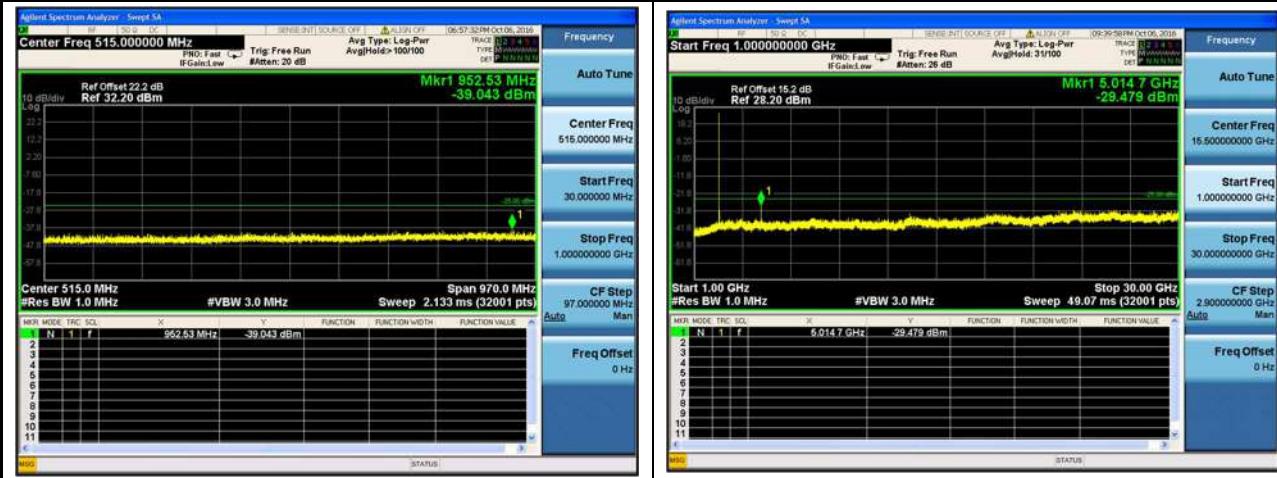
LTE Band 7 (Low Channel) 20775 (2502.5MHz) QPSK Bandwidth 5MHz



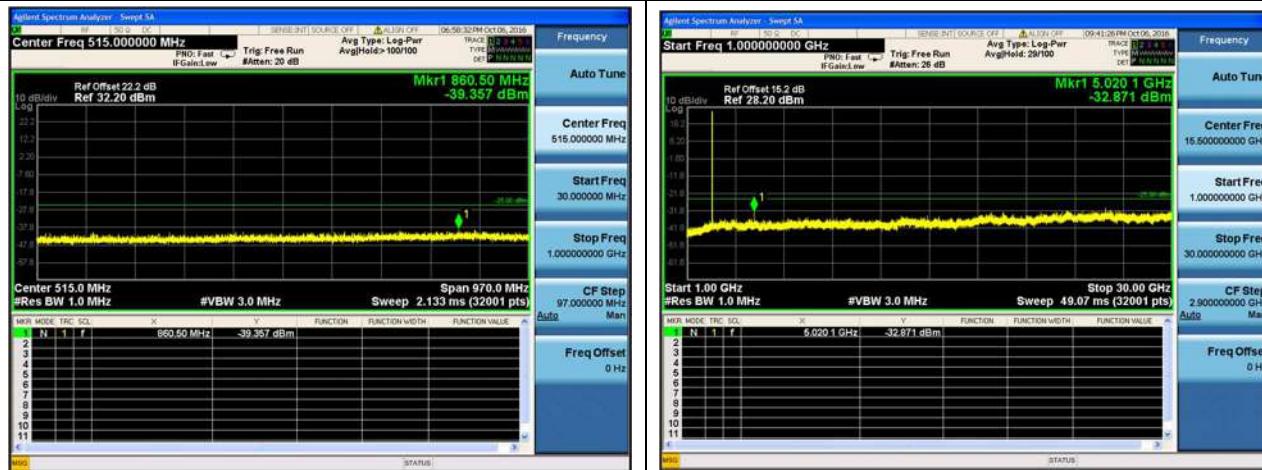
LTE Band 7 (Low Channel) 20800 (2505MHz) QPSK Bandwidth 10MHz



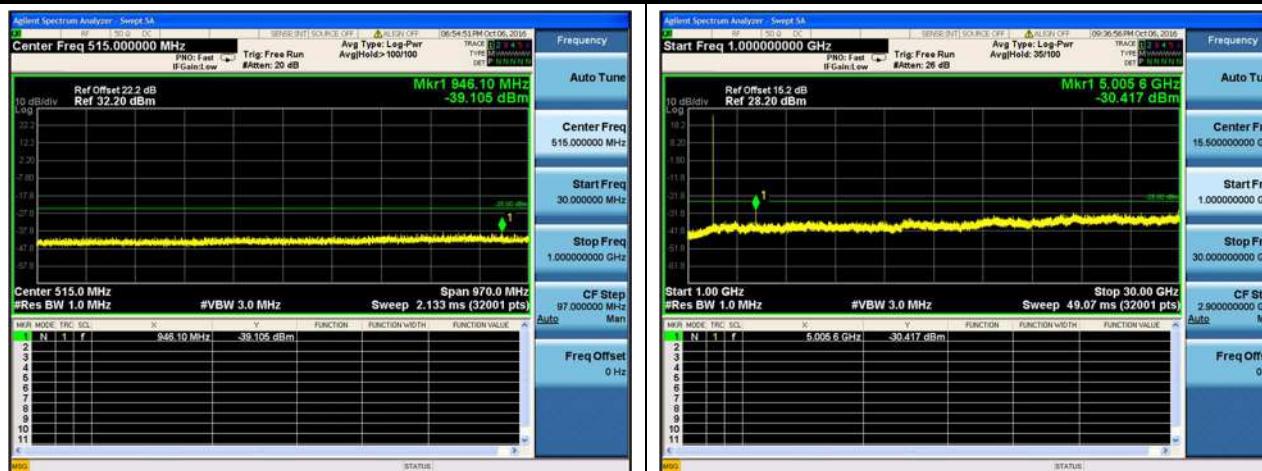
LTE Band 7 (Low Channel) 20825 (2507.5MHz) QPSK Bandwidth 15MHz



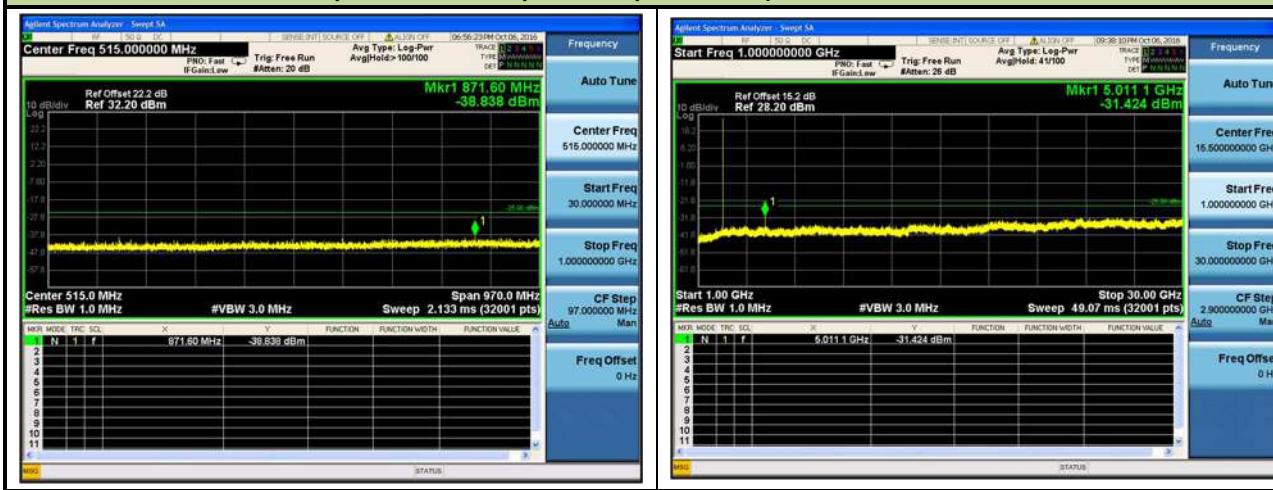
LTE Band 7 (Low Channel) 20850 (2510MHz) QPSK Bandwidth 20MHz



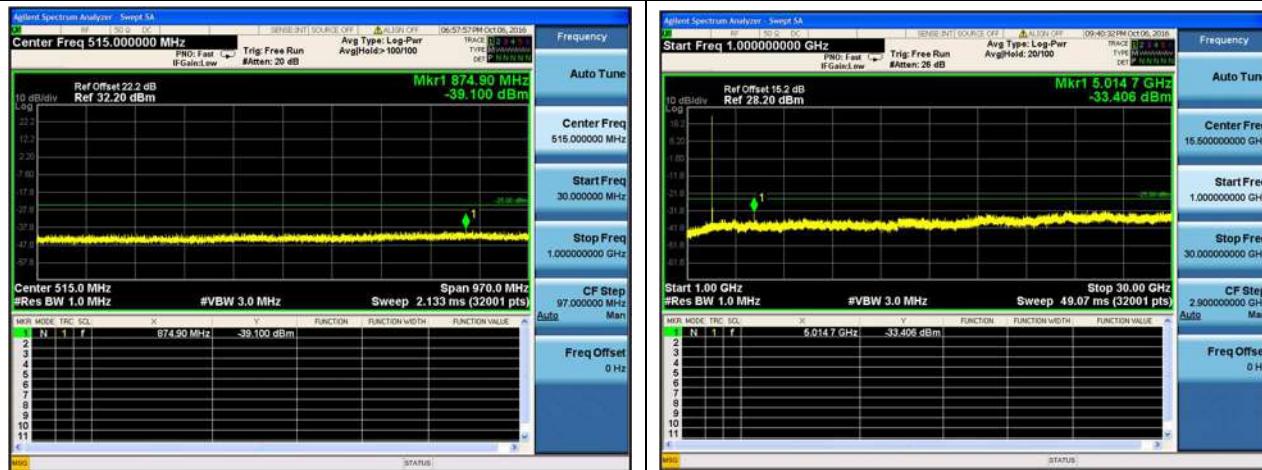
LTE Band 7 (Low Channel) 20775 (2502.5MHz) 16QAM Bandwidth 5MHz



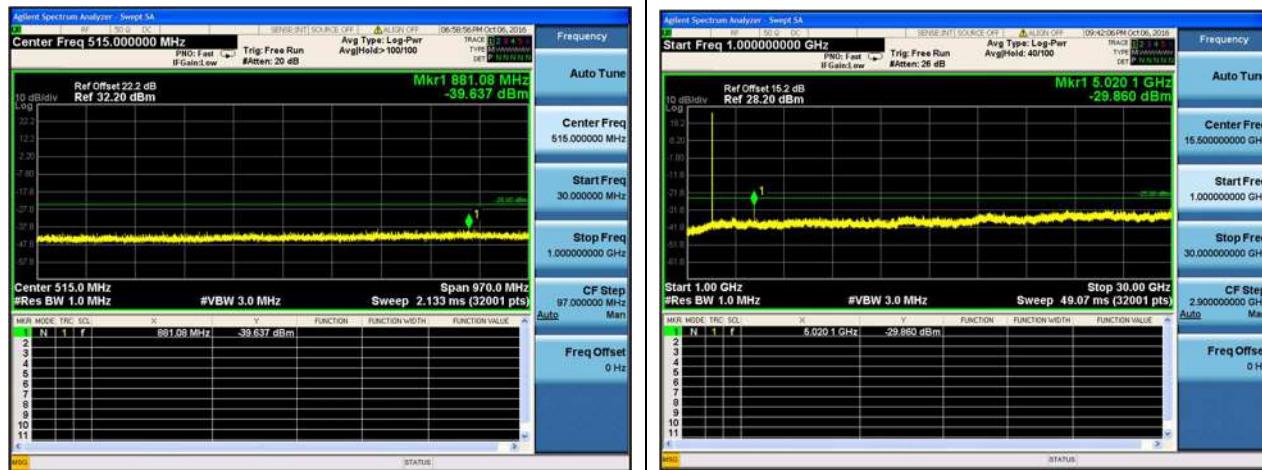
LTE Band 7 (Low Channel) 20800 (2505MHz) 16QAM Bandwidth 10MHz



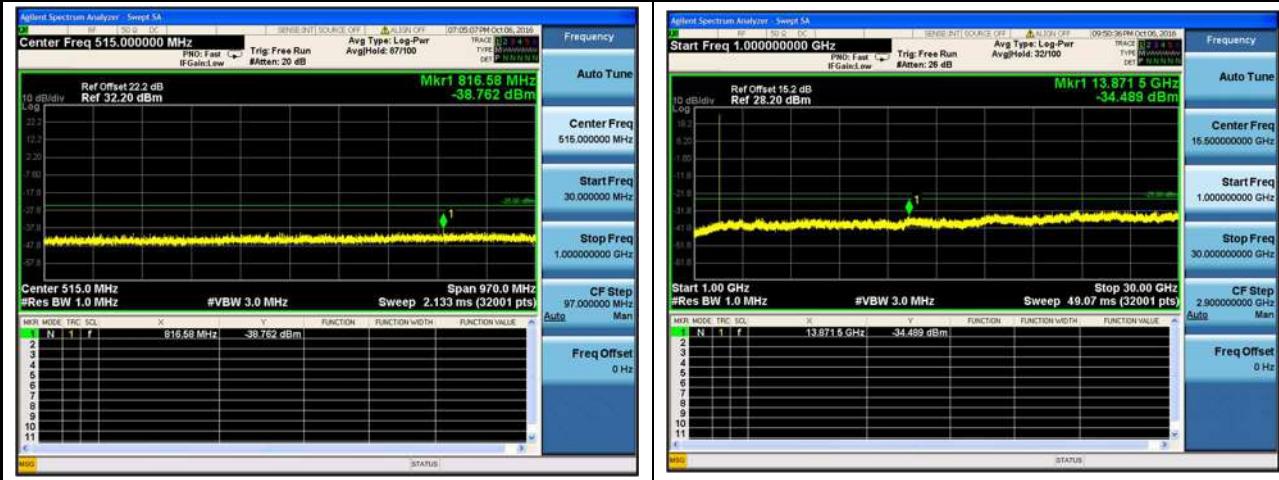
LTE Band 7 (Low Channel) 20825 (2507.5MHz) 16QAM Bandwidth 15MHz



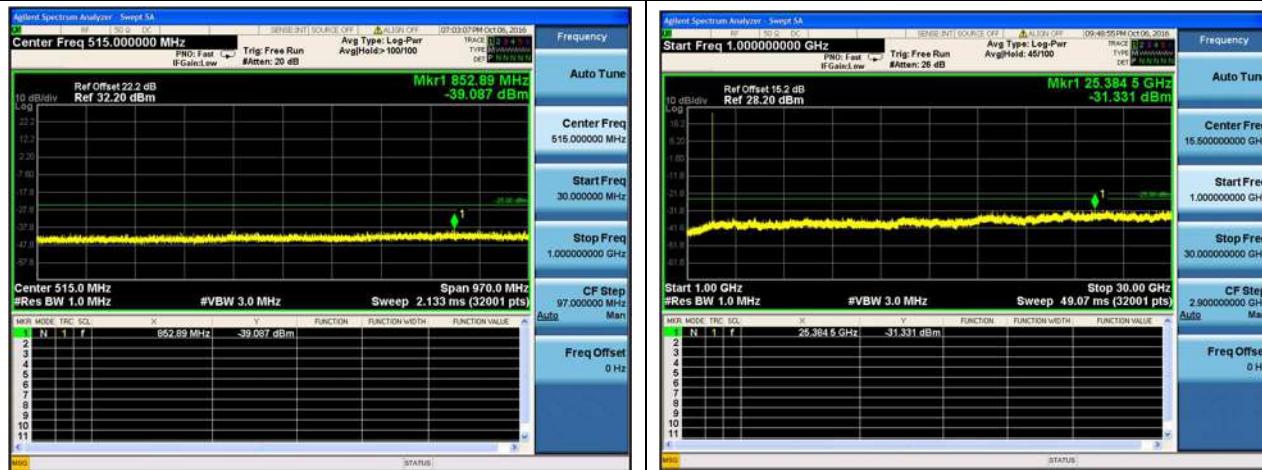
LTE Band 7 (Low Channel) 20850 (2510MHz) 16QAM Bandwidth 20MHz



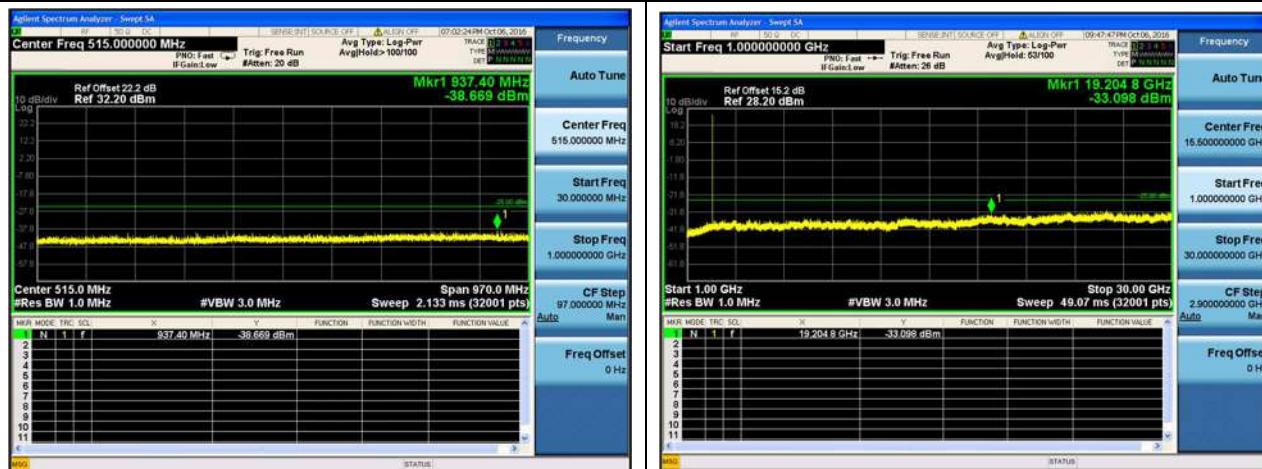
LTE Band 7 (Mid Channel) 21100 (2535MHz) QPSK Bandwidth 5MHz



LTE Band 7 (Mid Channel) 21100 (2535MHz) QPSK Bandwidth 10MHz



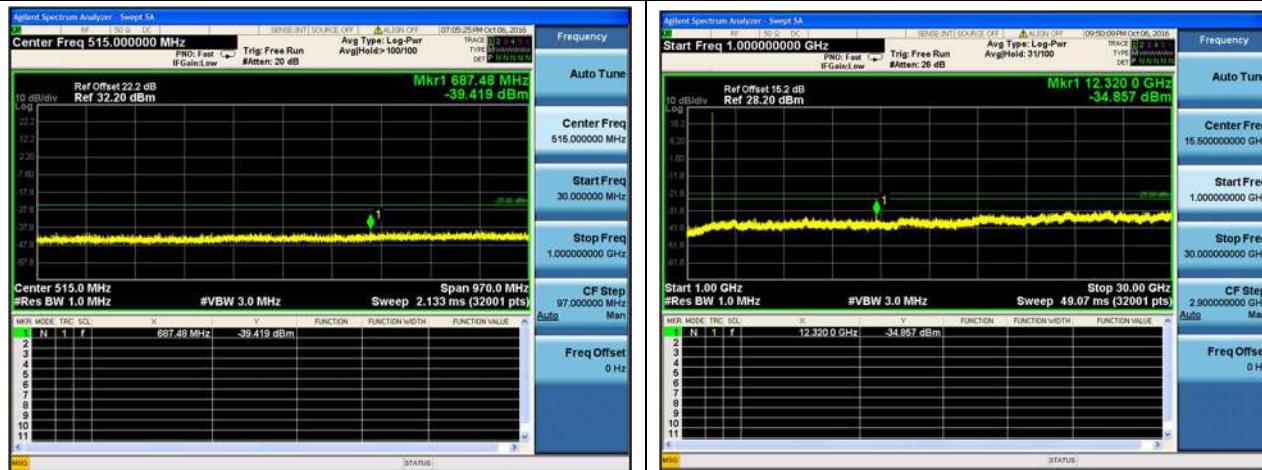
LTE Band 7 (Mid Channel) 21100 (2535MHz) QPSK Bandwidth 15MHz



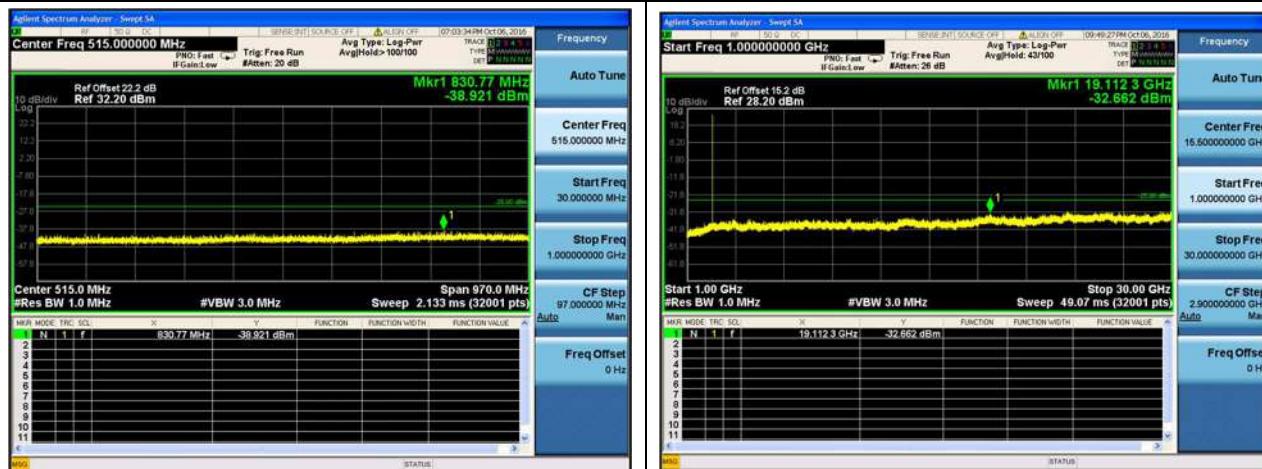
LTE Band 7 (Mid Channel) 21100 (2535MHz) QPSK Bandwidth 20MHz



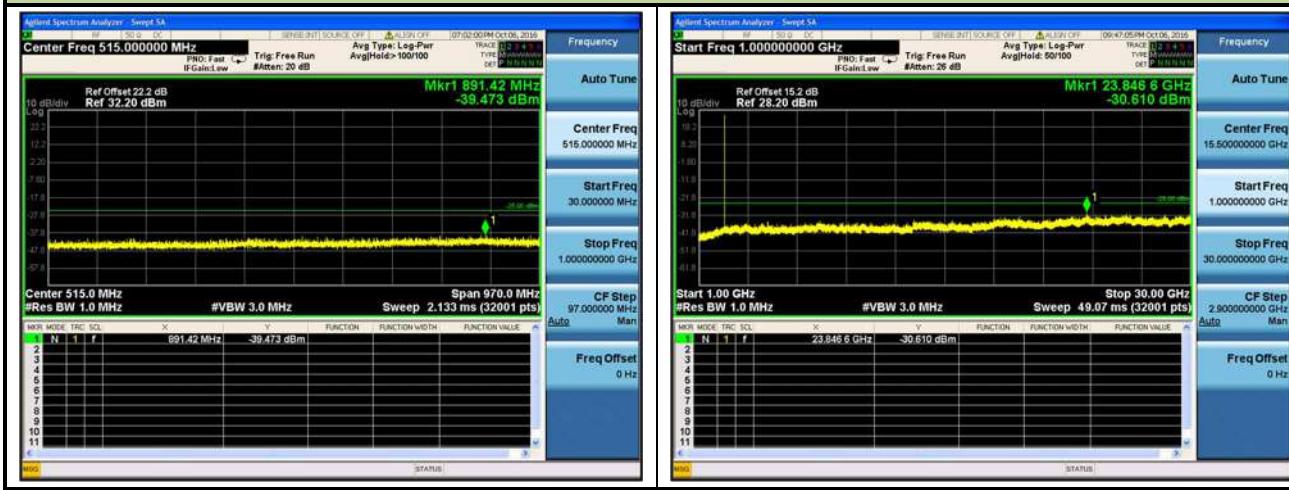
LTE Band 7 (Mid Channel) 21100 (2535MHz) 16QAM Bandwidth 5MHz



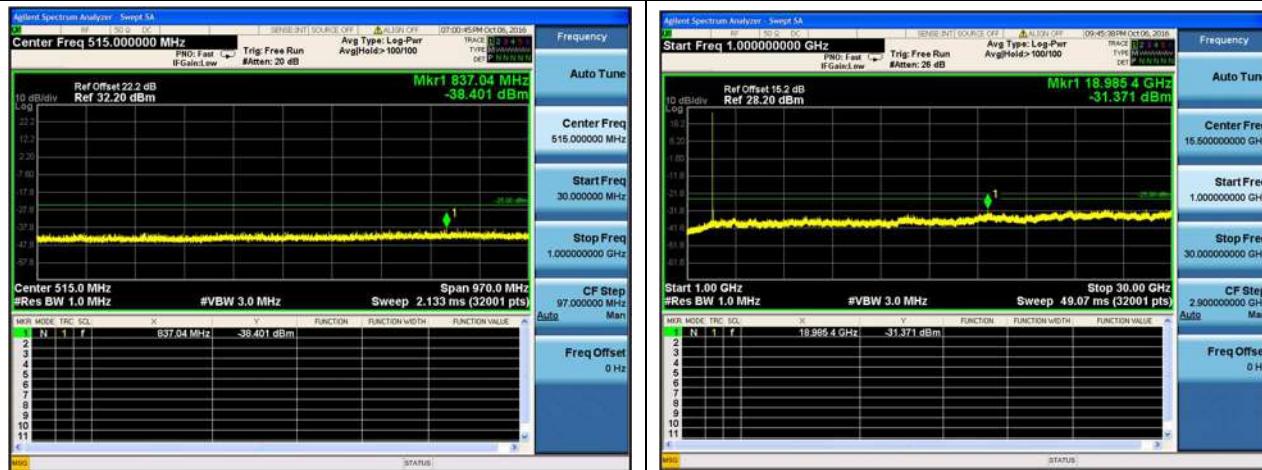
LTE Band 7 (Mid Channel) 21100 (2535MHz) 16QAM Bandwidth 10MHz



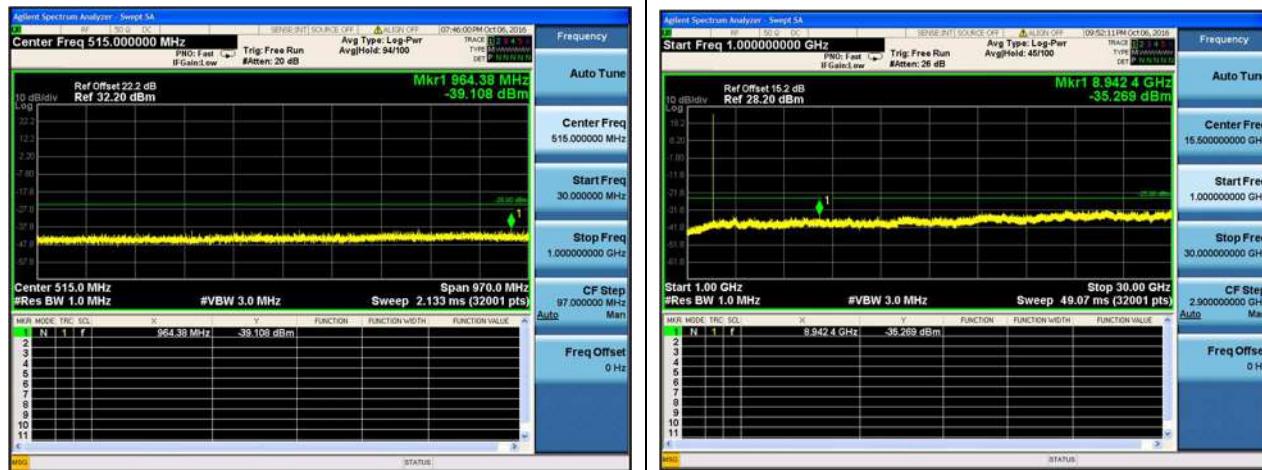
LTE Band 7 (Mid Channel) 21100 (2535MHz) 16QAM Bandwidth 15MHz



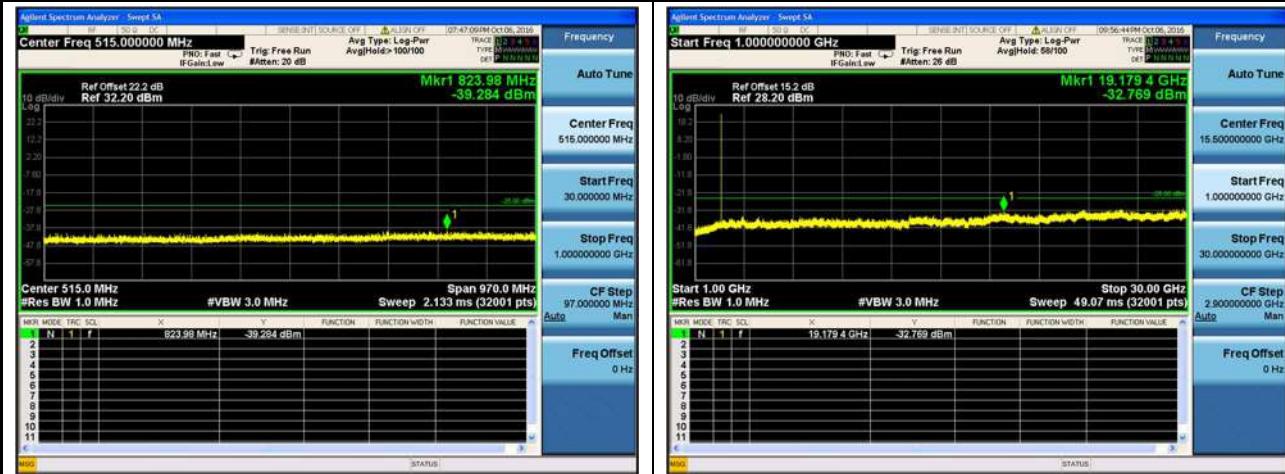
LTE Band 7 (Mid Channel) 21100 (2535MHz) 16QAM Bandwidth 20MHz



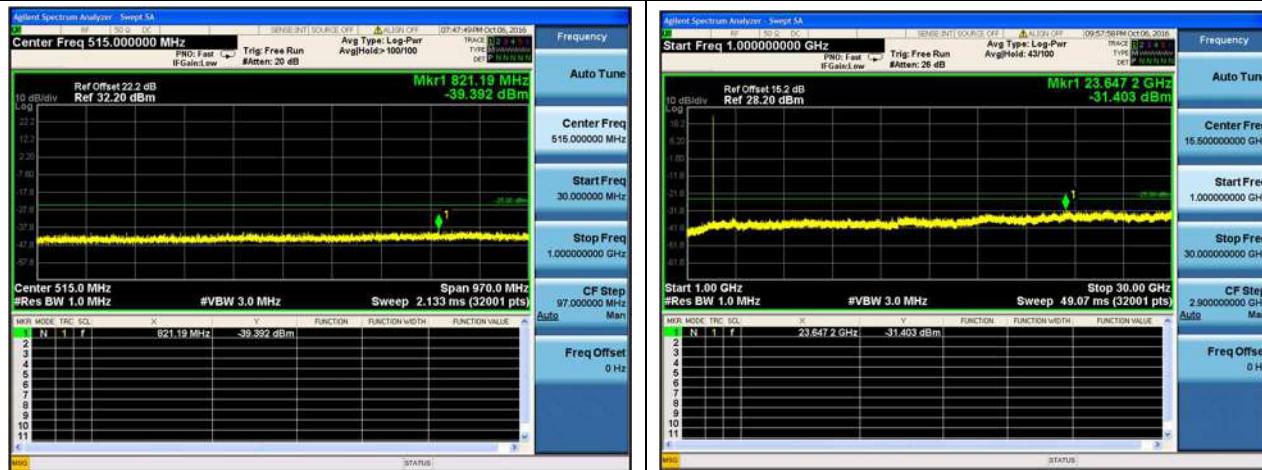
LTE Band 7 (High Channel) 21425 (2567.5MHz) QPSK Bandwidth 5MHz



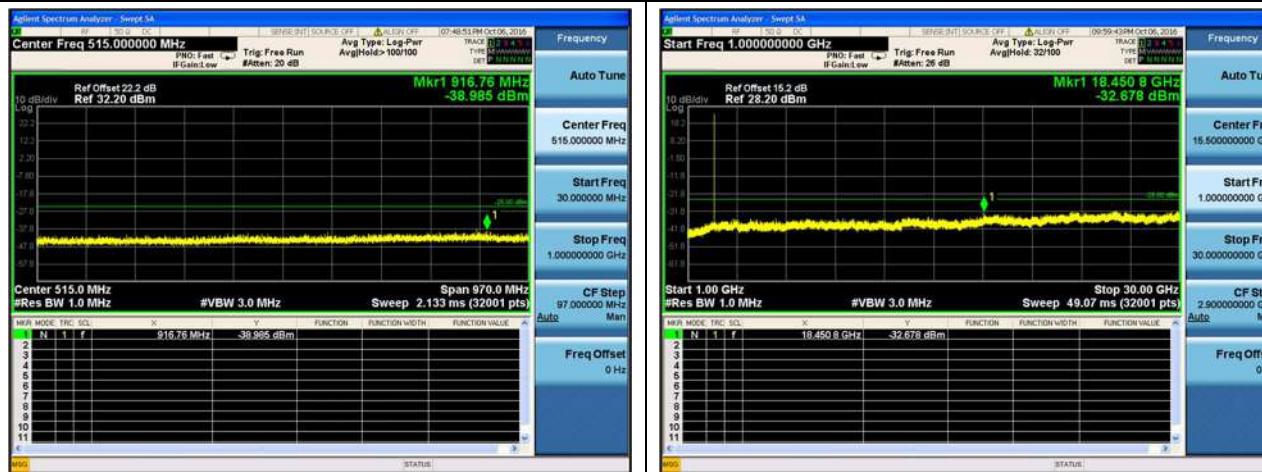
LTE Band 7 (High Channel) 21400 (2565MHz) QPSK Bandwidth 10MHz



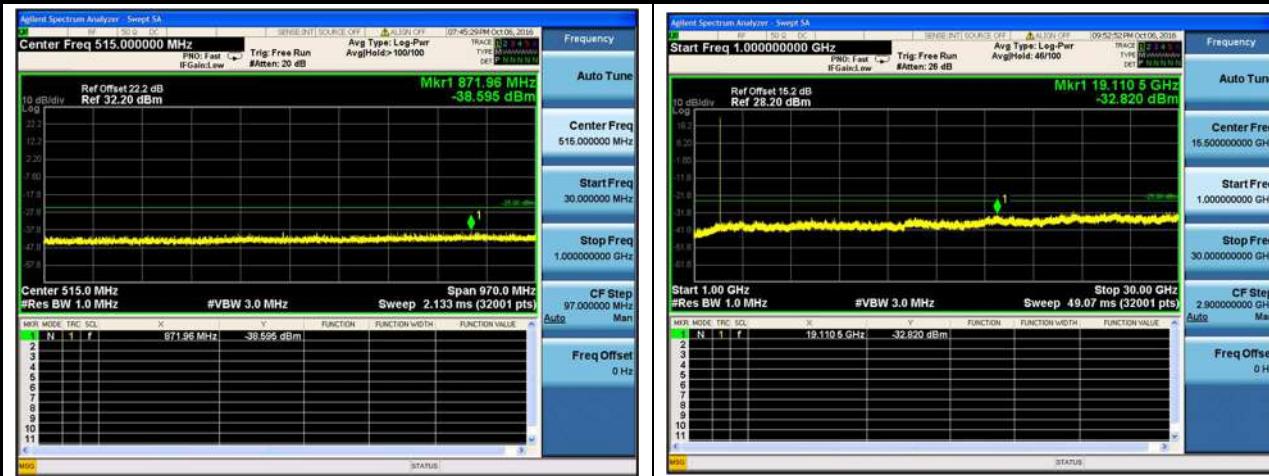
LTE Band 7 (High Channel) 21375 (2562.5MHz) QPSK Bandwidth 15MHz



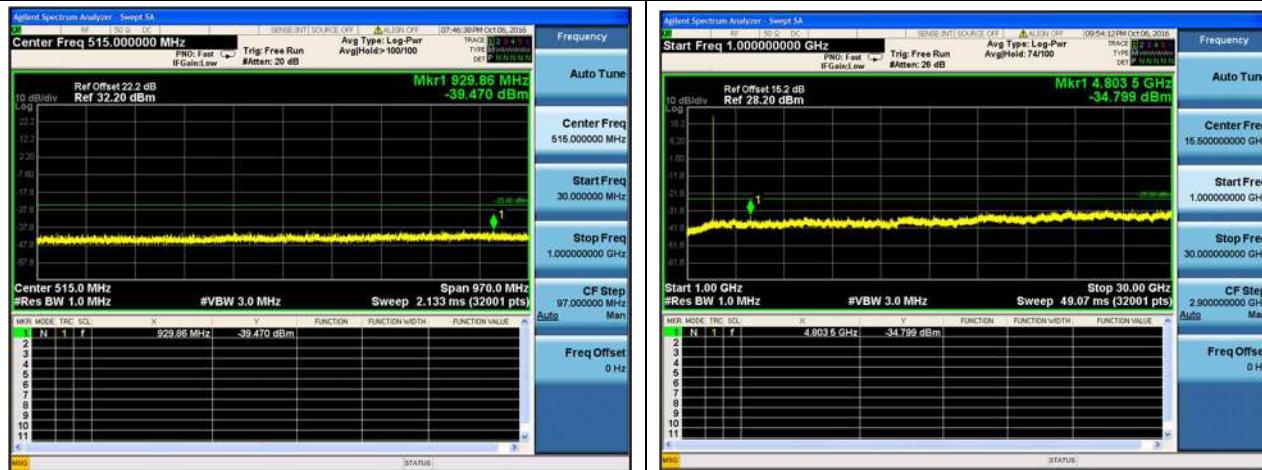
LTE Band 7 (High Channel) 21350 (2560MHz) QPSK Bandwidth 20MHz



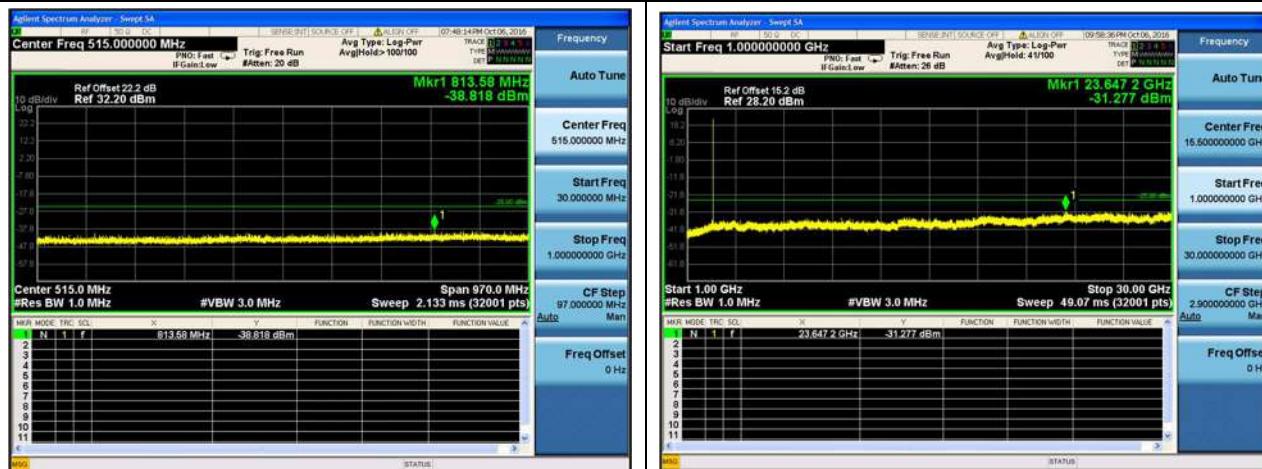
LTE Band 7 (High Channel) 21425 (2567.5MHz) 16QAM Bandwidth 5MHz



LTE Band 7 (High Channel) 21400 (2565MHz) 16QAM Bandwidth 10MHz



LTE Band 7 (High Channel) 21375 (2562.5MHz) 16QAM Bandwidth 15MHz



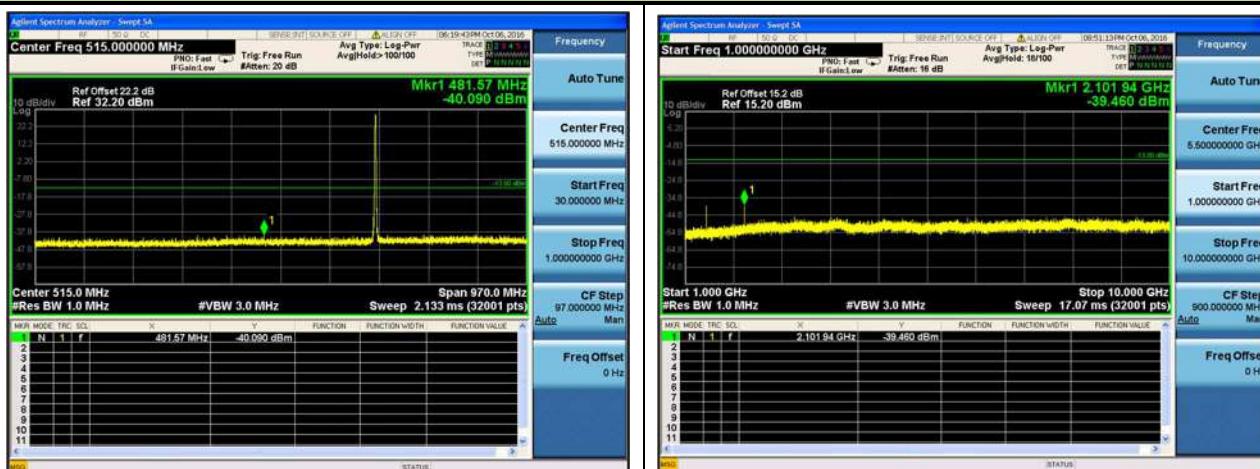
LTE Band 7 (High Channel) 21350 (2560MHz) 16QAM Bandwidth 20MHz



LTE Band 12 (Low Channel) 23017 (699.7MHz) QPSK Bandwidth 1.4MHz



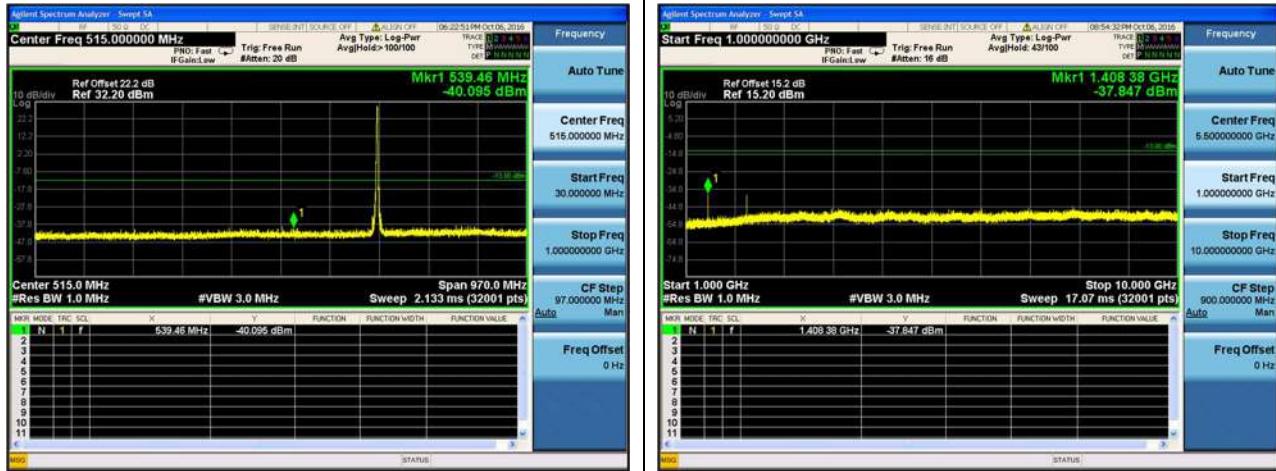
LTE Band 12 (Low Channel) 23025 (700.5MHz) QPSK Bandwidth 3MHz



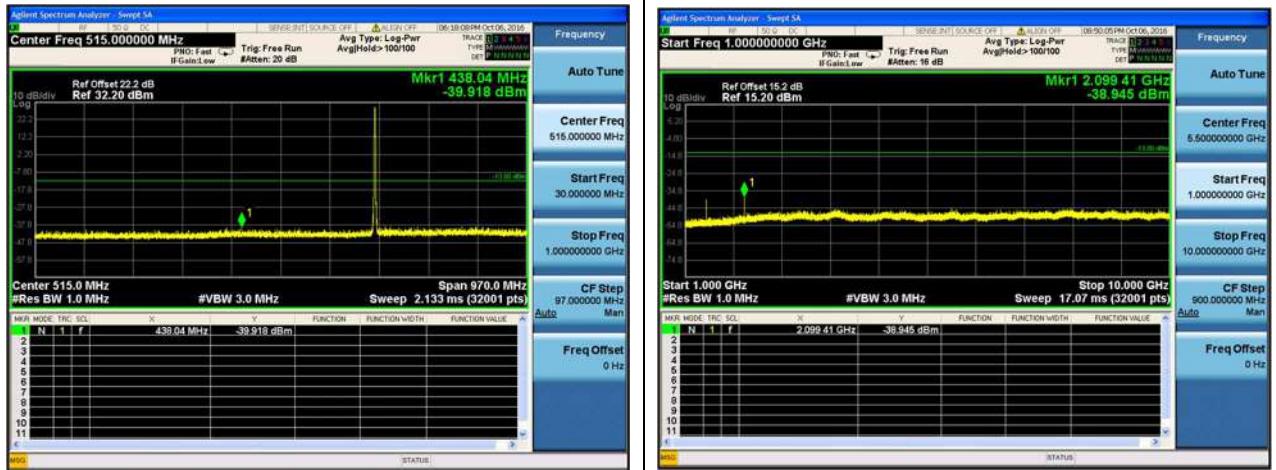
LTE Band 12 (Low Channel) 23035 (701.5MHz) QPSK Bandwidth 5MHz



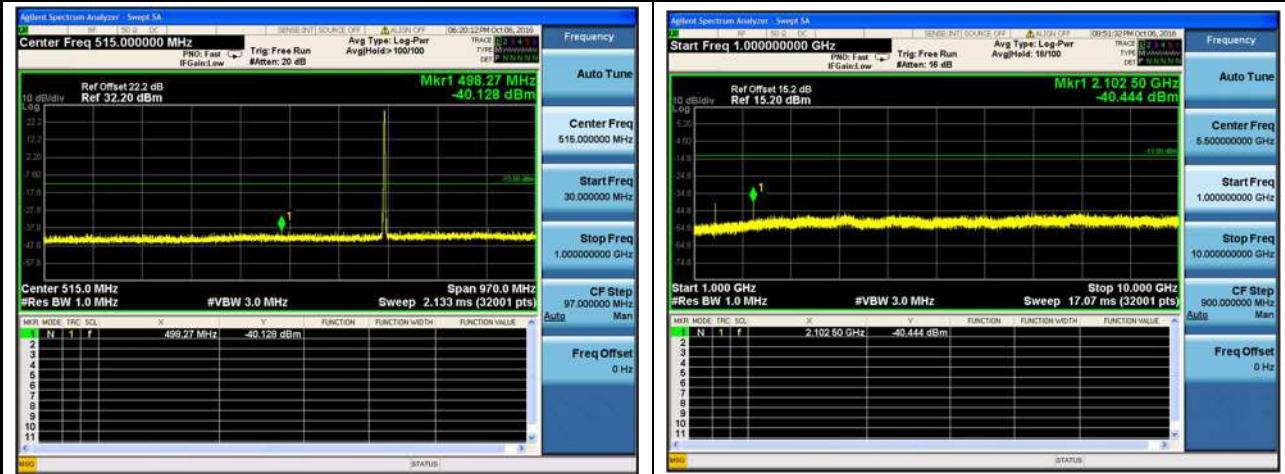
LTE Band 12 (Low Channel) 23060 (704MHz) QPSK Bandwidth 10MHz



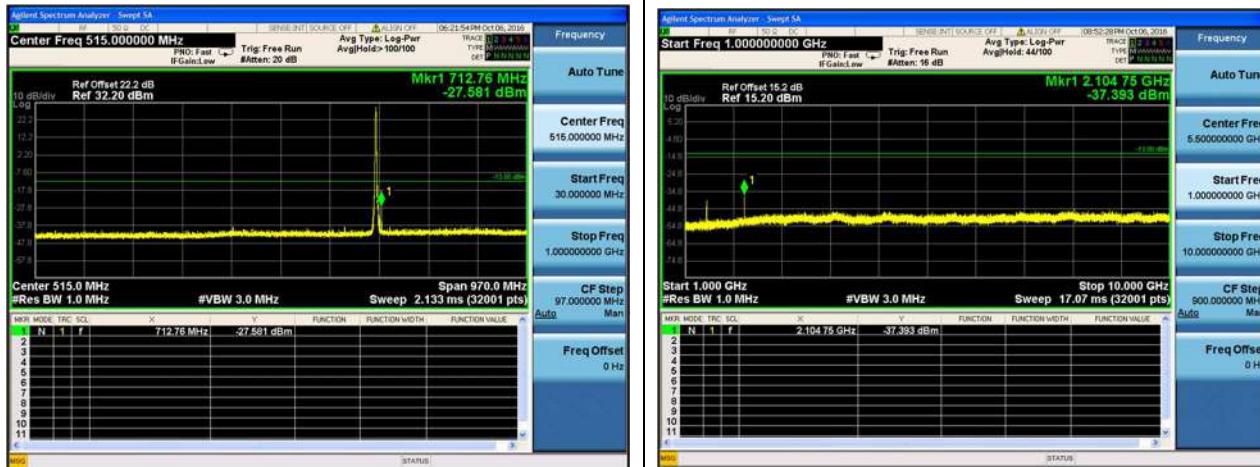
LTE Band 12 (Low Channel) 23017 (699.7MHz) 16QAM Bandwidth 1.4MHz



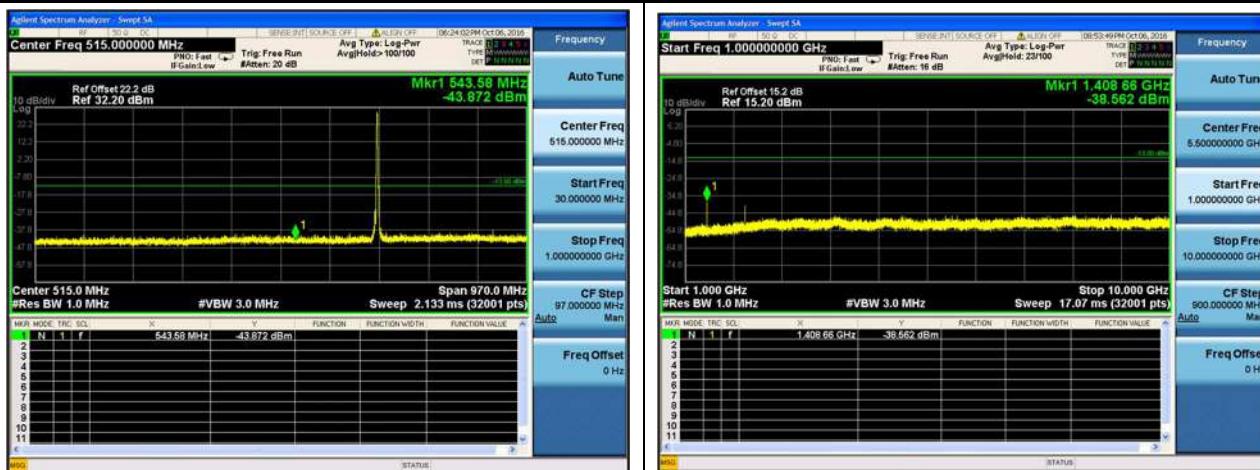
LTE Band 12 (Low Channel) 23025 (700.5MHz) 16QAM Bandwidth 3MHz



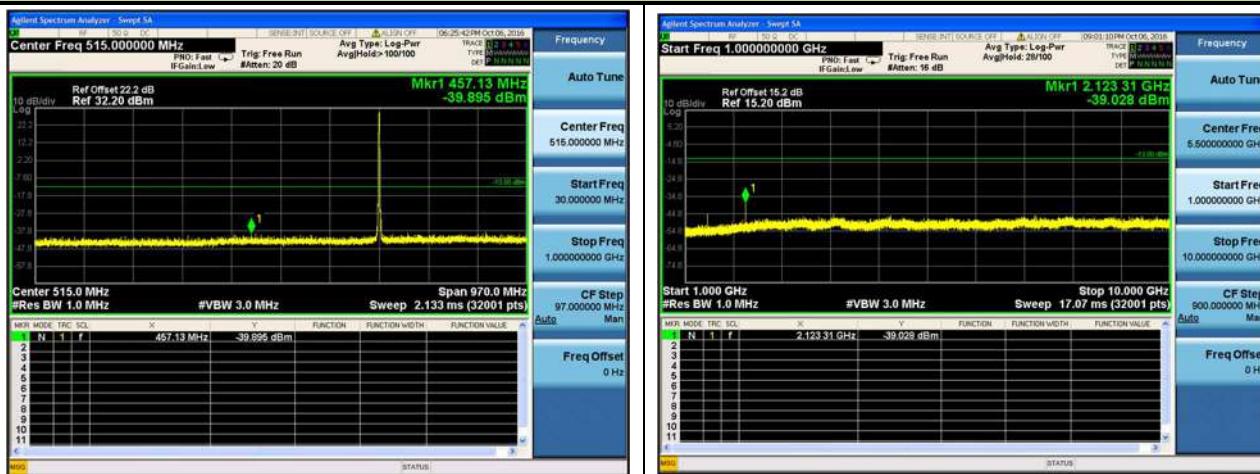
LTE Band 12 (Low Channel) 23035 (701.5MHz) 16QAM Bandwidth 5MHz



LTE Band 12 (Low Channel) 23060 (704MHz) 16QAM Bandwidth 10MHz



LTE Band 12 (Mid Channel) 23095 (707.5MHz) QPSK Bandwidth 1.4MHz



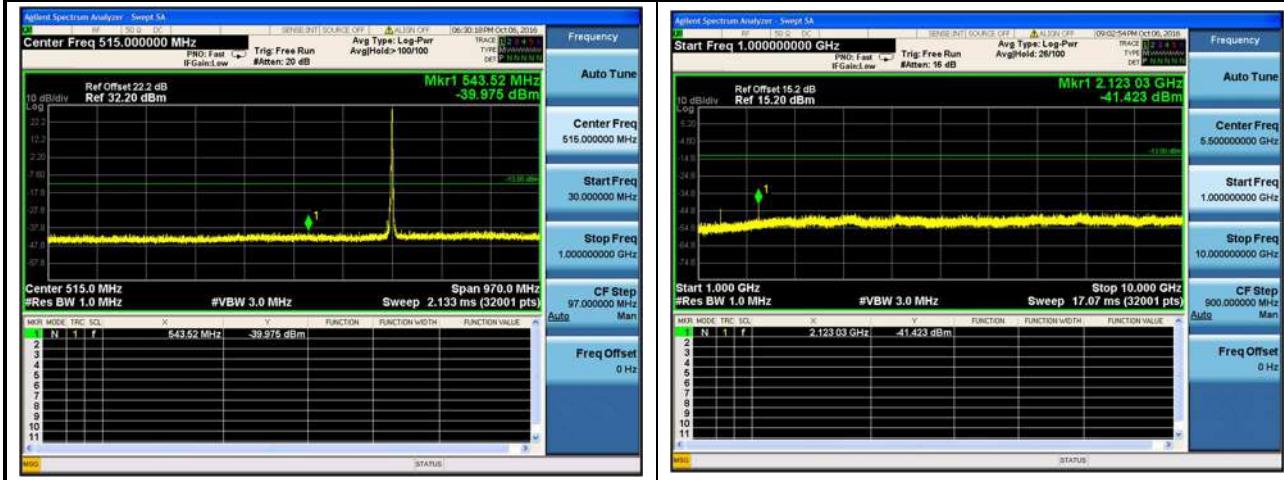
LTE Band 12 (Mid Channel) 23095 (707.5MHz) QPSK Bandwidth 3MHz



LTE Band 12 (Mid Channel) 23095 (707.5MHz) QPSK Bandwidth 5MHz



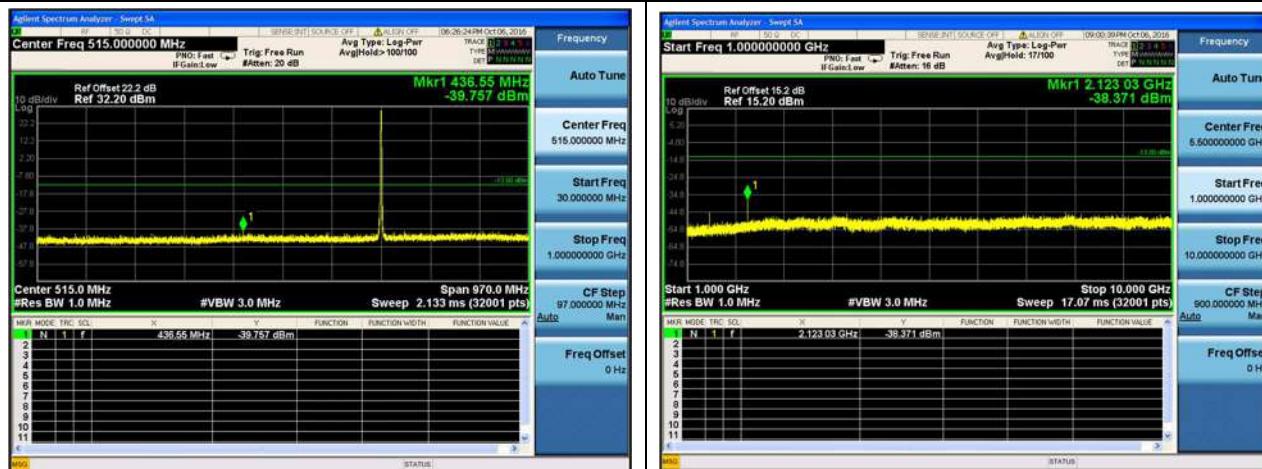
LTE Band 12 (Mid Channel) 23095 (707.5MHz) QPSK Bandwidth 10MHz



LTE Band 12 (Mid Channel) 23095 (707.5MHz) 16QAM Bandwidth 1.4MHz



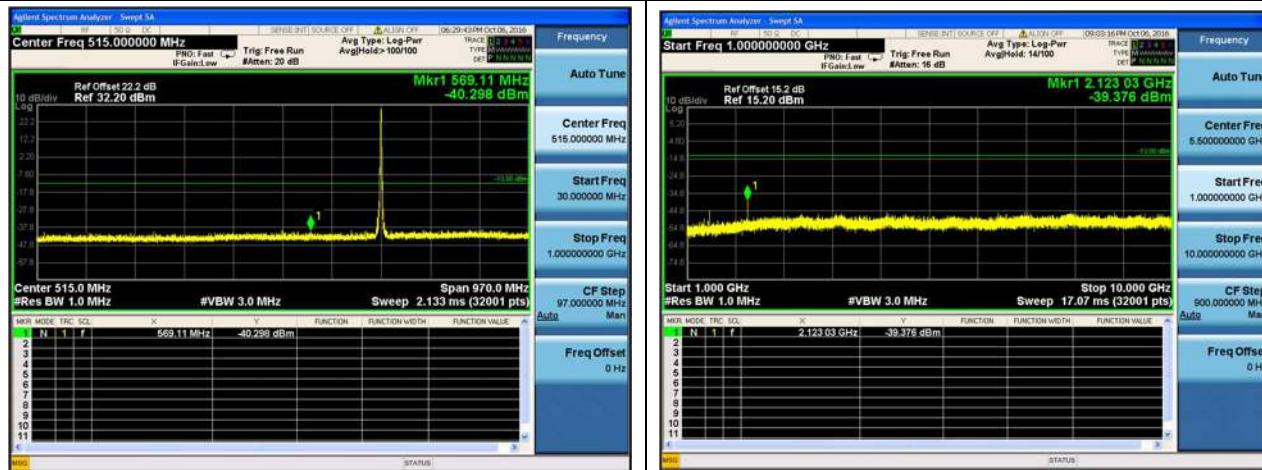
LTE Band 12 (Mid Channel) 23095 (707.5MHz) 16QAM Bandwidth 3MHz



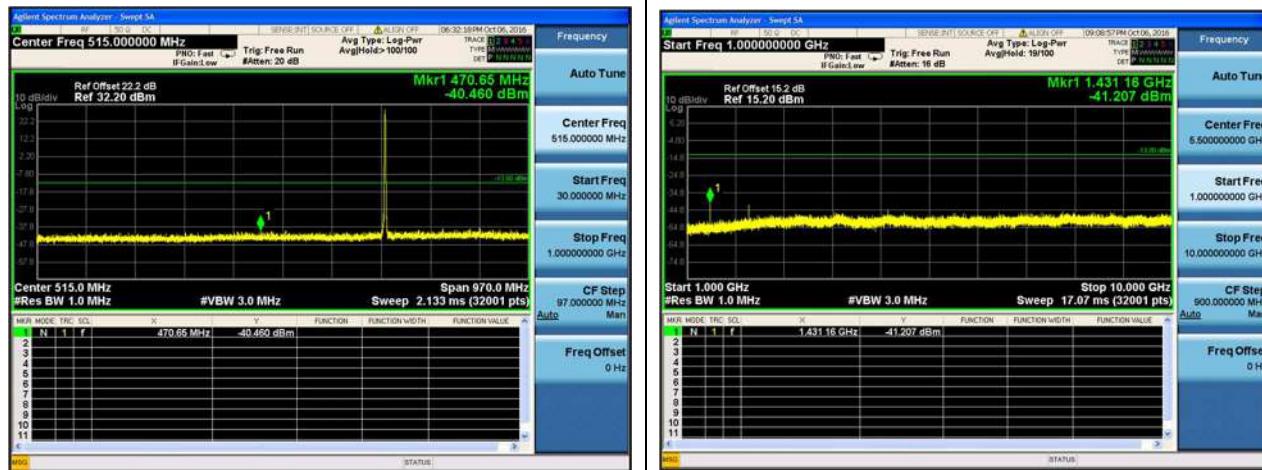
LTE Band 12 (Mid Channel) 23095 (707.5MHz) 16QAM Bandwidth 5MHz



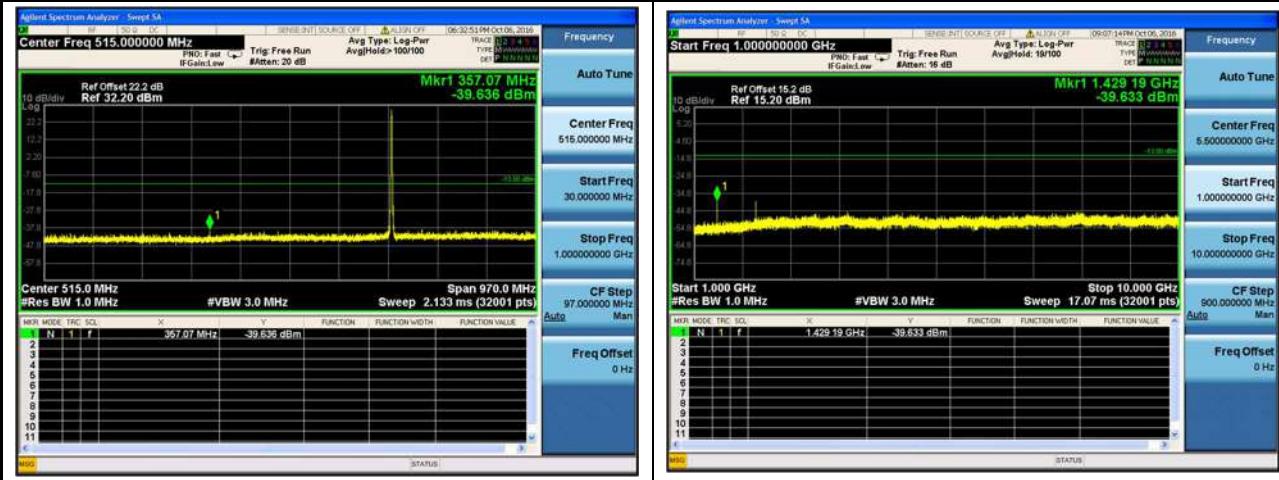
LTE Band 12 (Mid Channel) 23095 (707.5MHz) 16QAM Bandwidth 10MHz



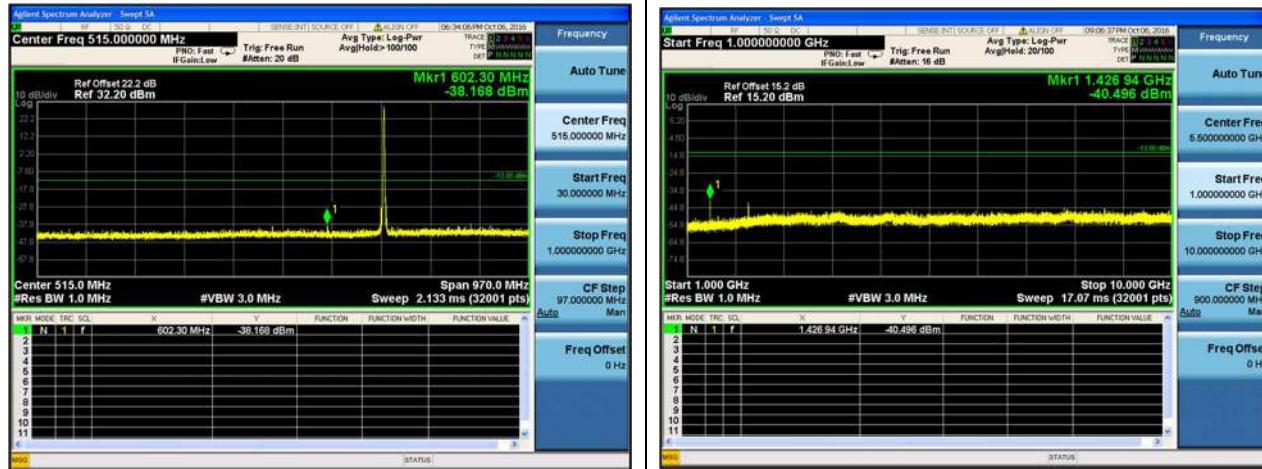
LTE Band 12 (High Channel) 23173 (715.3MHz) QPSK Bandwidth 1.4MHz



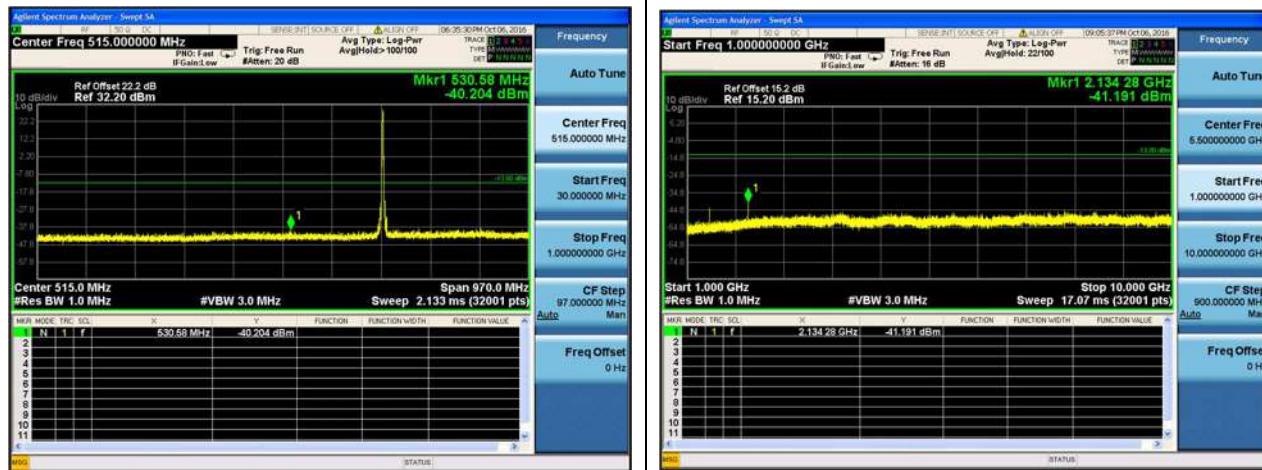
LTE Band 12 (High Channel) 23165 (714.5MHz) QPSK Bandwidth 3MHz



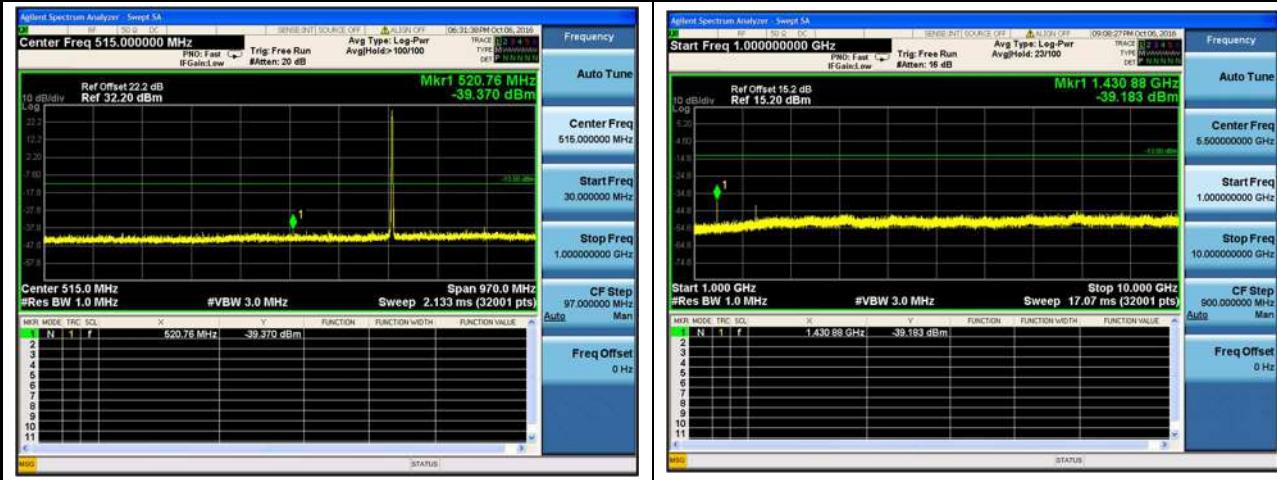
LTE Band 12 (High Channel) 23155 (713.5MHz) QPSK Bandwidth 5MHz



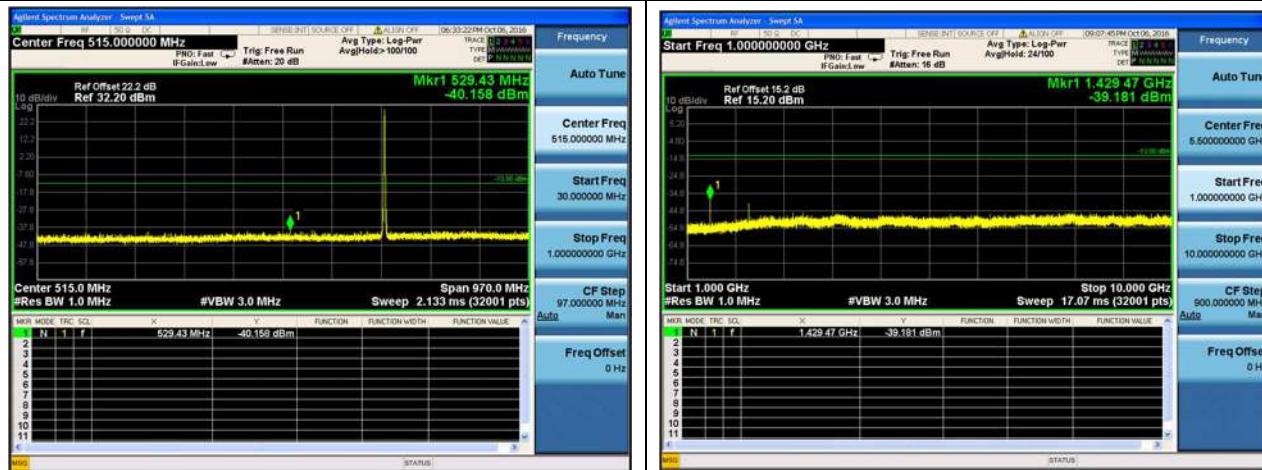
LTE Band 12 (High Channel) 23130 (711MHz) QPSK Bandwidth 10MHz



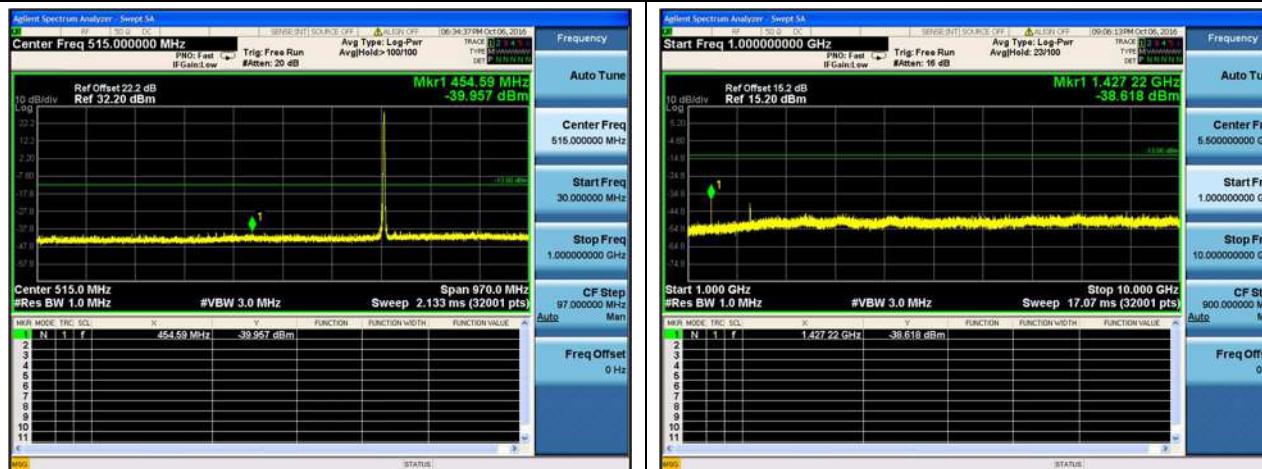
LTE Band 12 (High Channel) 23173 (715.3MHz) 16QAM Bandwidth 1.4MHz



LTE Band 12 (High Channel) 23165 (714.5MHz) 16QAM Bandwidth 3MHz



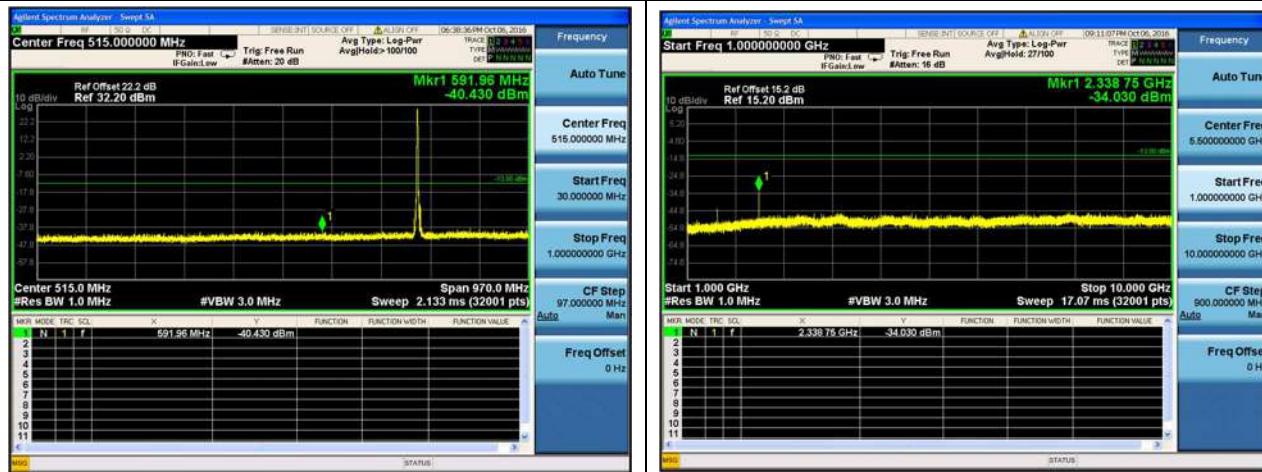
LTE Band 12 (High Channel) 23155 (713.5MHz) 16QAM Bandwidth 5MHz



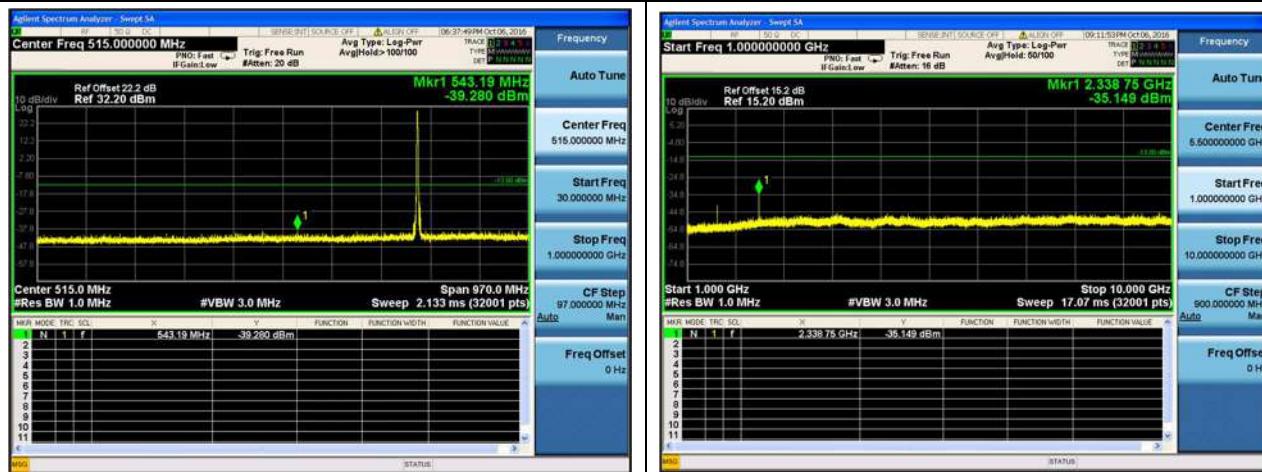
LTE Band 12 (High Channel) 23130 (711MHz) 16QAM Bandwidth 10MHz



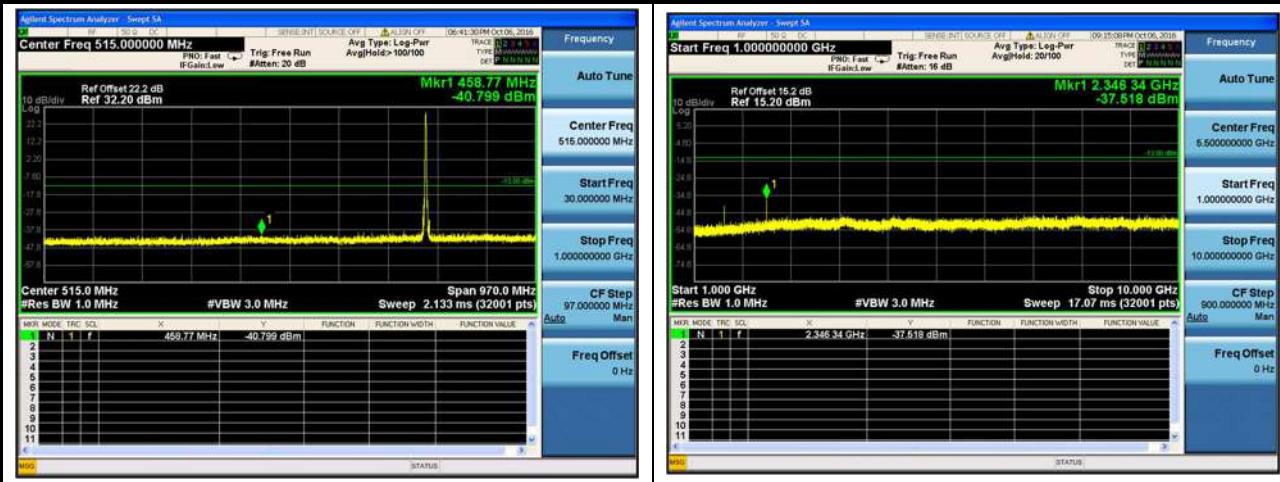
LTE Band 13 (Low Channel) 23205 (779.5MHz) QPSK Bandwidth 5MHz



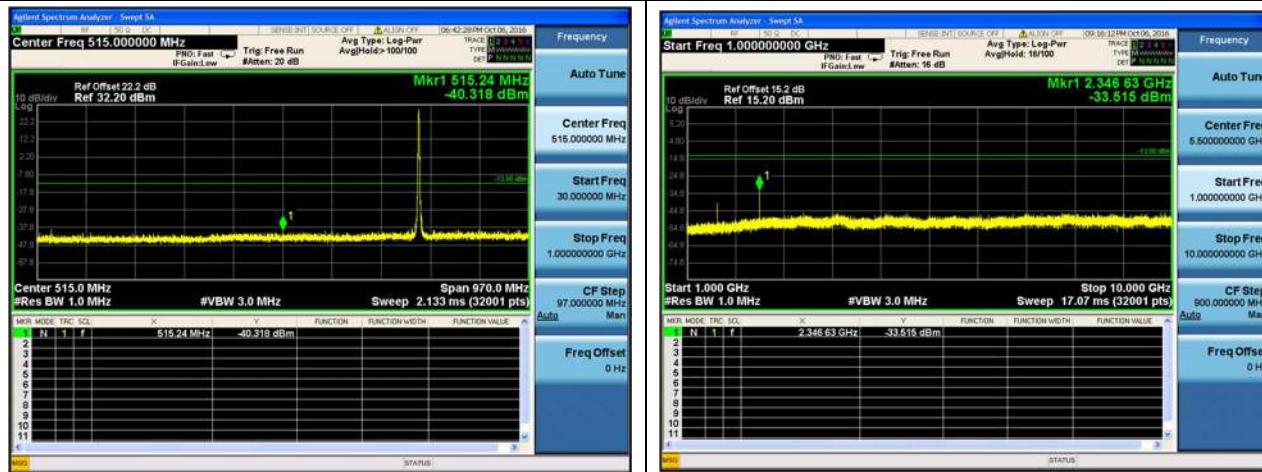
LTE Band 13 (Low Channel) 23205 (779.5MHz) 16QAM Bandwidth 5MHz



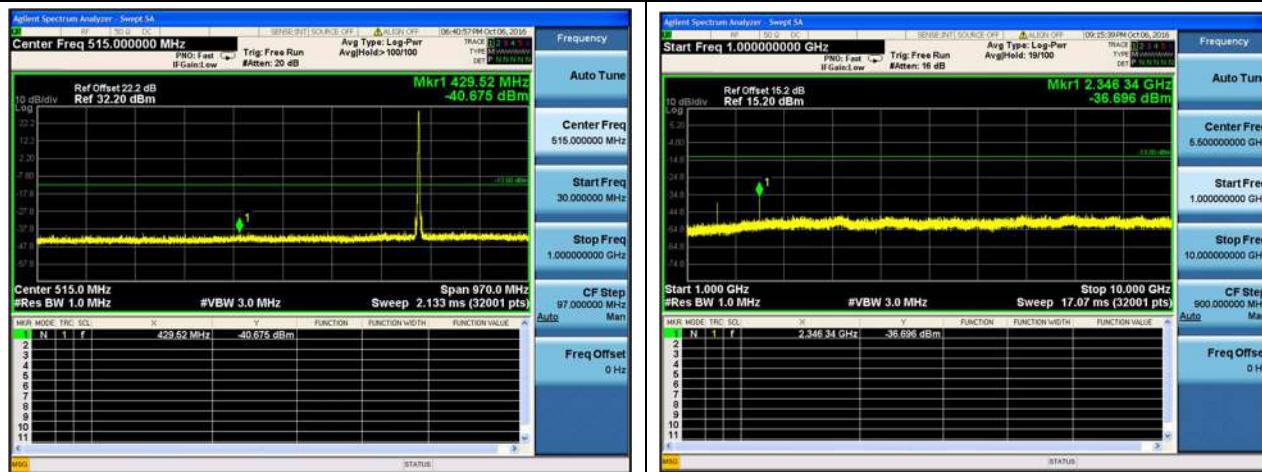
LTE Band 13 (Mid Channel) 23230 (782MHz) QPSK Bandwidth 5MHz



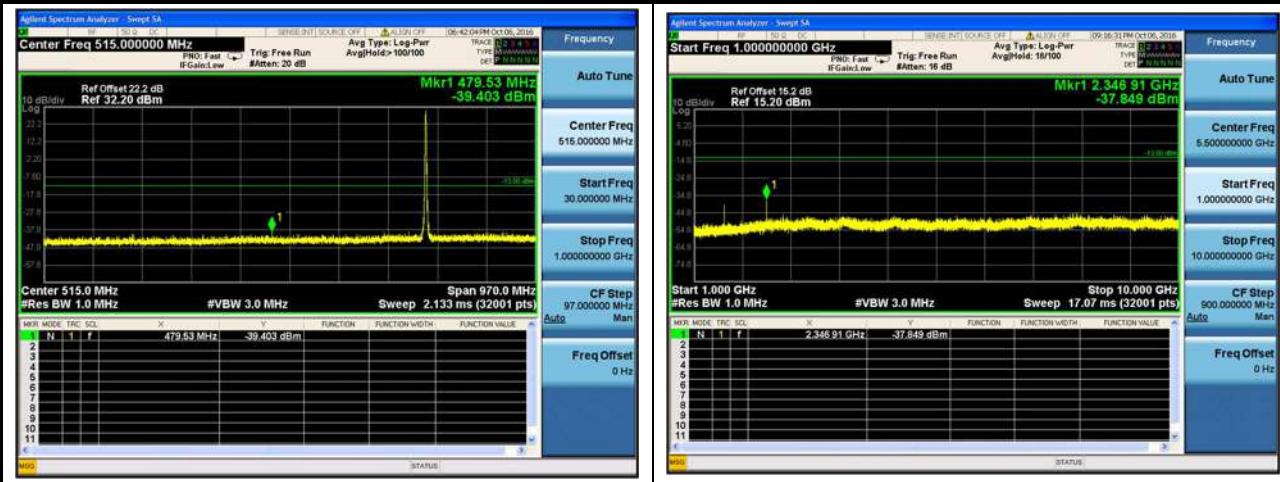
LTE Band 13 (Mid Channel) 23230 (782MHz) QPSK Bandwidth 10MHz



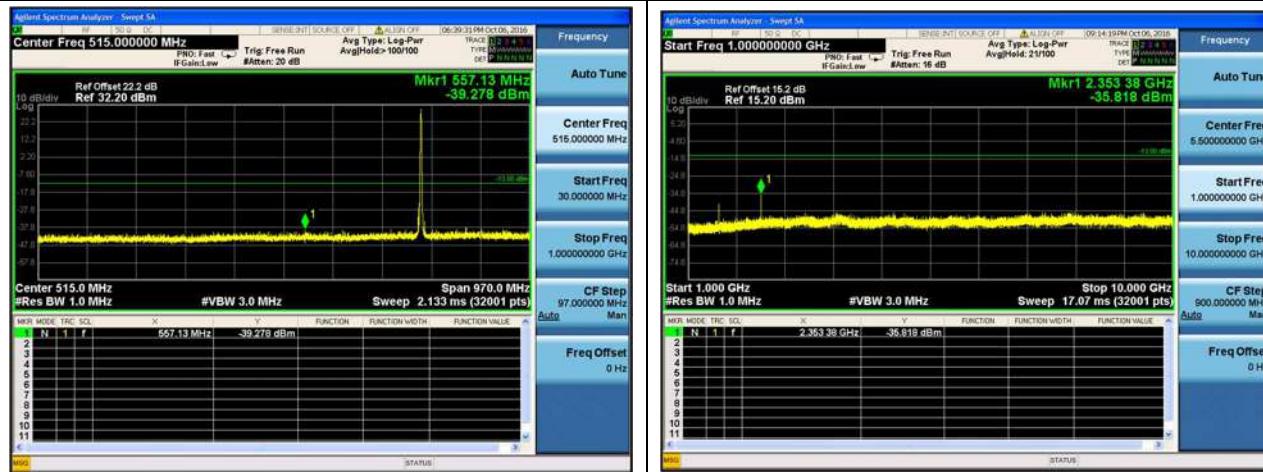
LTE Band 13 (Mid Channel) 23230 (782MHz) 16QAM Bandwidth 5MHz



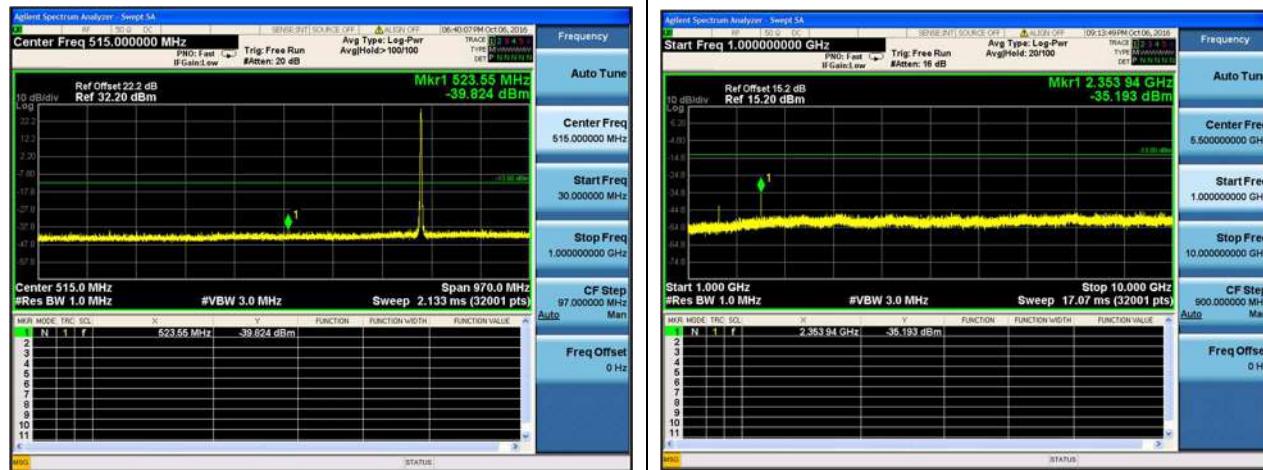
LTE Band 13 (Mid Channel) 23230 (782MHz) 16QAM Bandwidth 10MHz



LTE Band 13 (High Channel) 23255 (784.5MHz) QPSK Bandwidth 5MHz



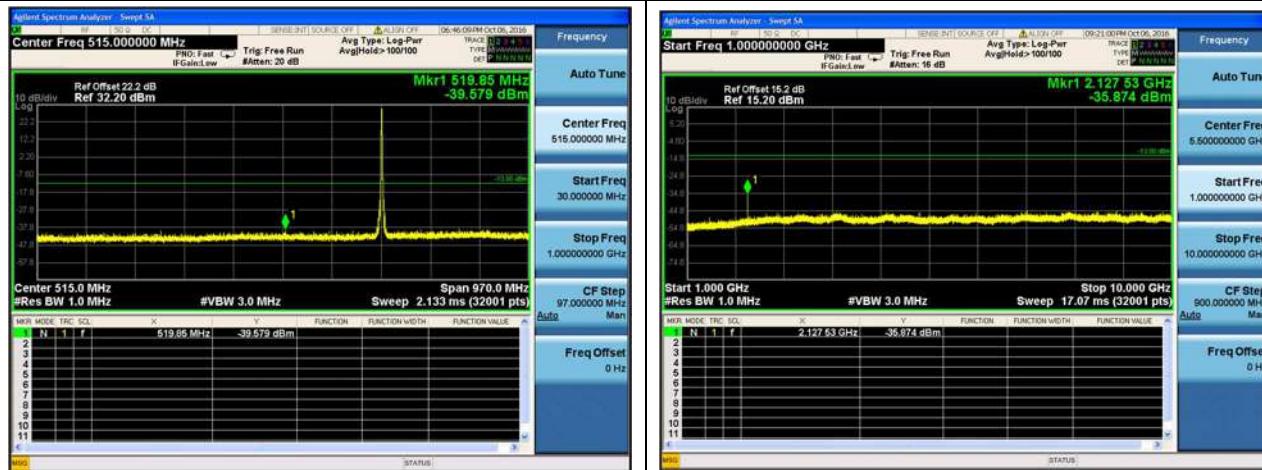
LTE Band 13 (High Channel) 23255 (784.5MHz) 16QAM Bandwidth 5MHz



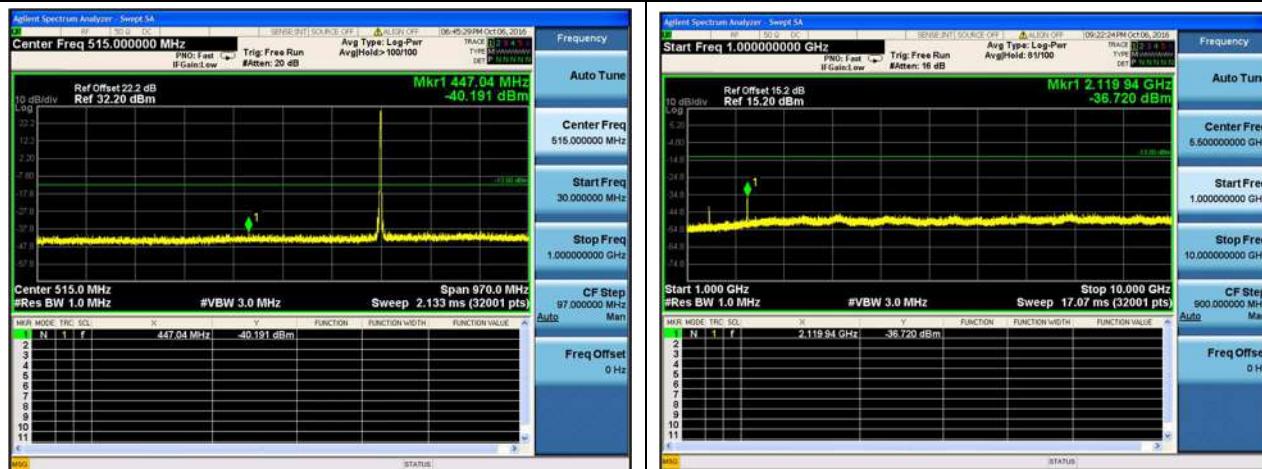
LTE Band 17 (Low Channel) 23755 (706.5MHz) QPSK Bandwidth 5MHz



LTE Band 17 (Low Channel) 23780 (709MHz) QPSK Bandwidth 10MHz



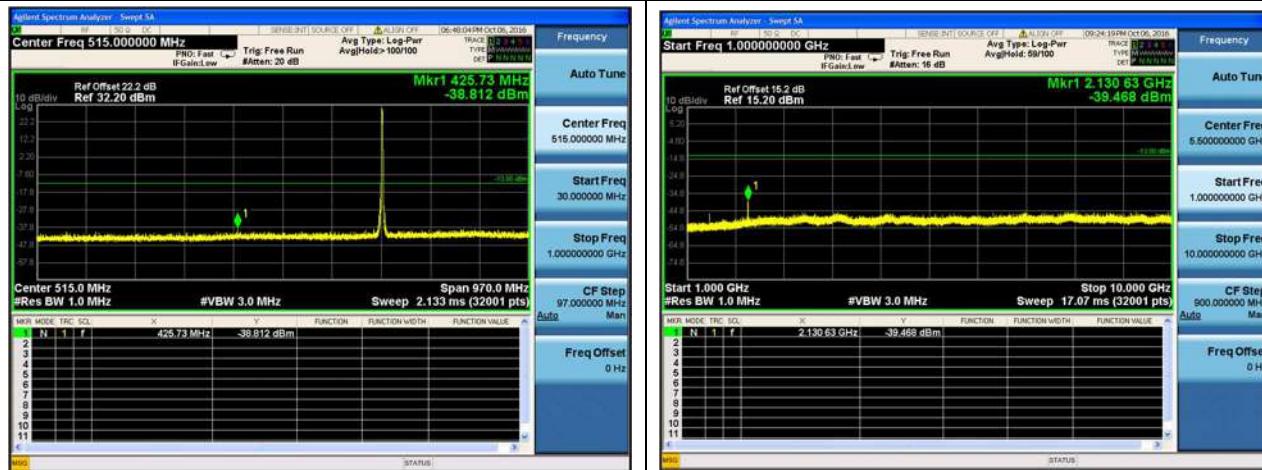
LTE Band 17 (Low Channel) 23755 (706.5MHz) 16QAM Bandwidth 5MHz



LTE Band 17 (Low Channel) 23780 (709MHz) 16QAM Bandwidth 10MHz



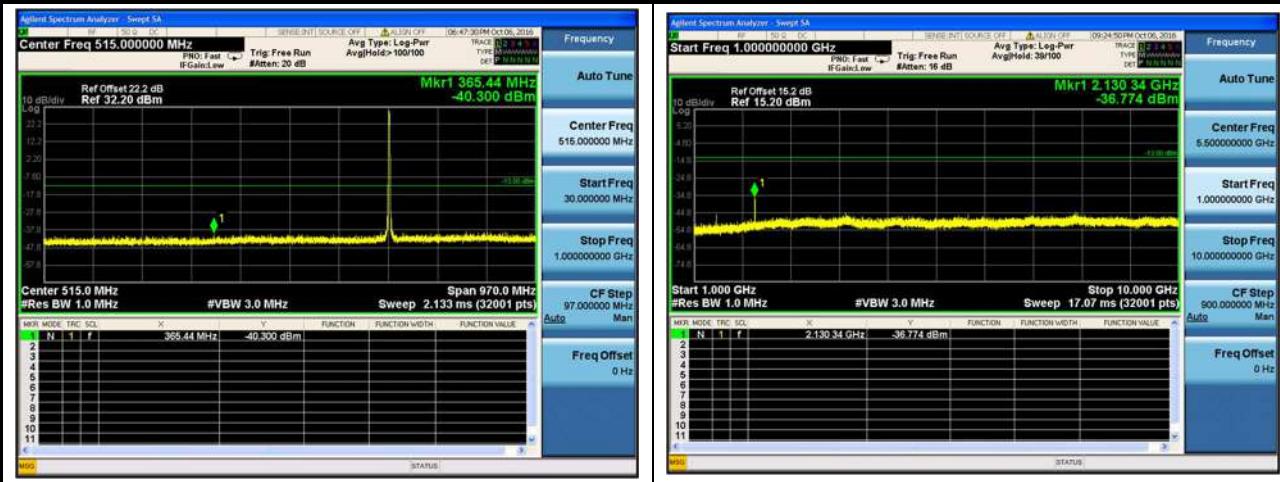
LTE Band 17 (Mid Channel) 23790 (710MHz) QPSK Bandwidth 5MHz



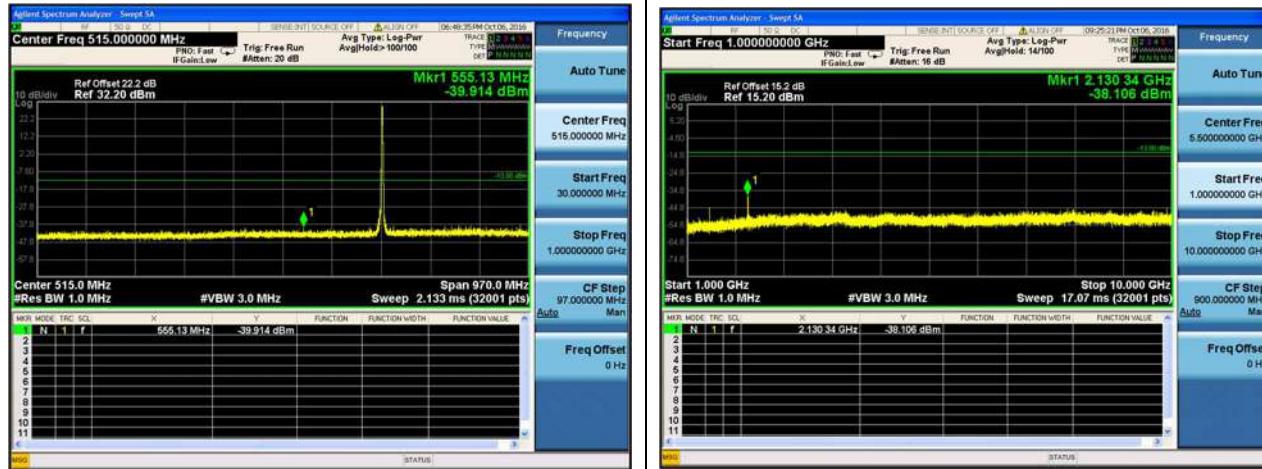
LTE Band 17 (Mid Channel) 23790 (710MHz) QPSK Bandwidth 10MHz



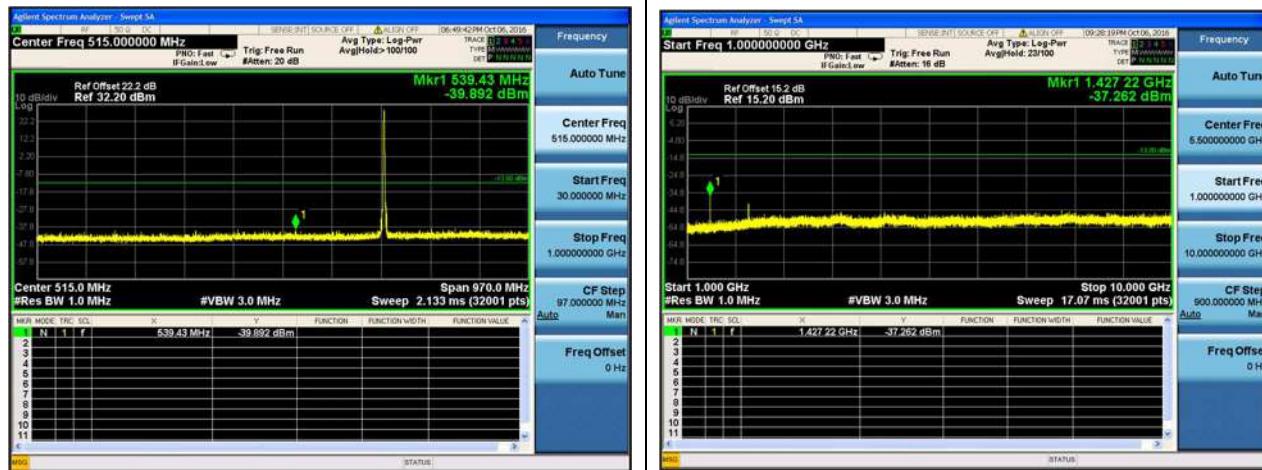
LTE Band 17 (Mid Channel) 23790 (710MHz) 16QAM Bandwidth 5MHz



LTE Band 17 (Mid Channel) 23790 (710MHz) 16QAM Bandwidth 10MHz



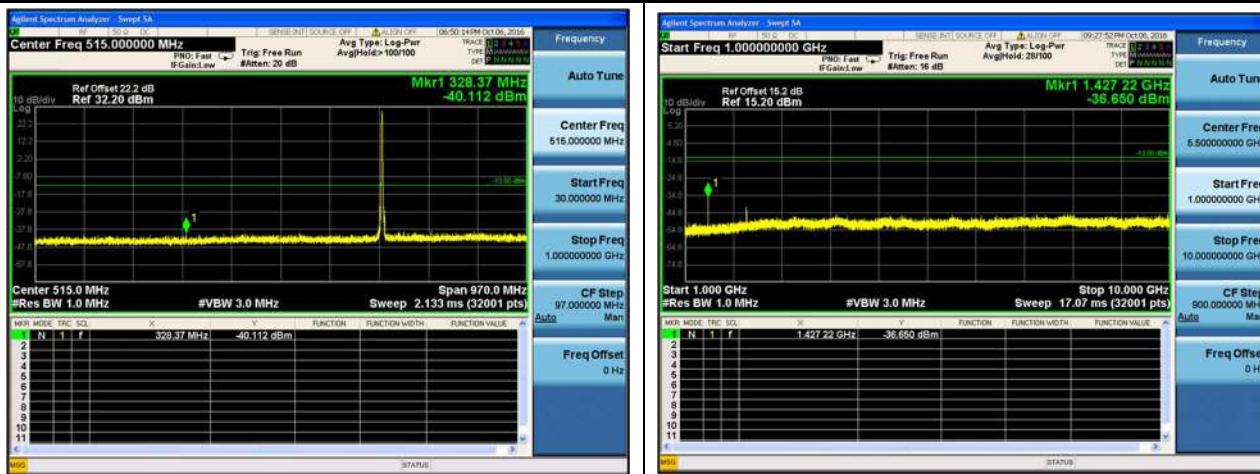
LTE Band 17 (High Channel) 23825 (713.5MHz) QPSK Bandwidth 5MHz



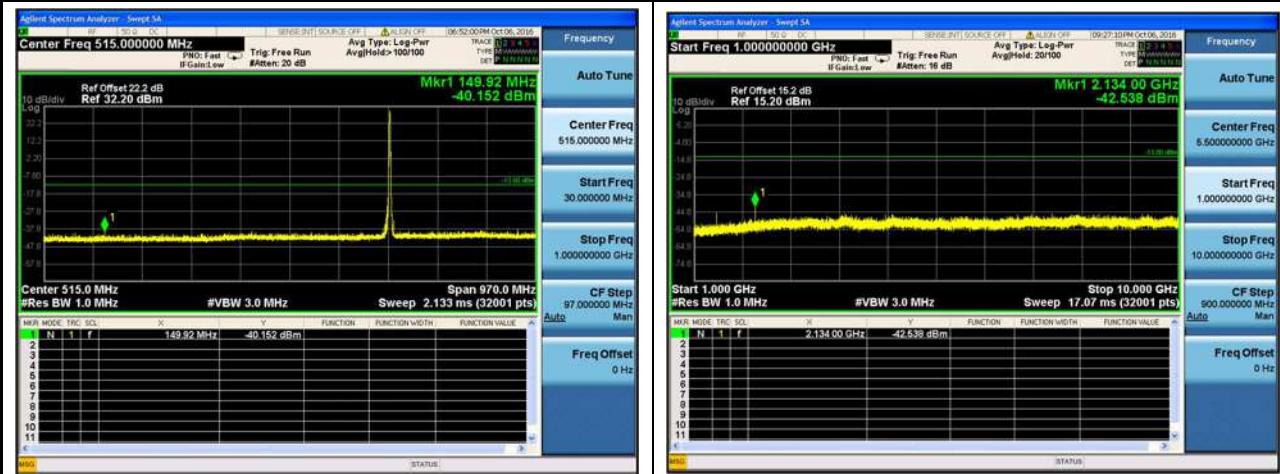
LTE Band 17 (High Channel) 23800 (711MHz) QPSK Bandwidth 10MHz



LTE Band 17 (High Channel) 23825 (713.5MHz) 16QAM Bandwidth 5MHz



LTE Band 17 (High Channel) 23800 (711MHz) 16QAM Bandwidth 10MHz



7.4. Band Edge at Antenna Terminal

7.4.1. Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB for Band 2,4,5,12,13,17/ the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz for Band7.

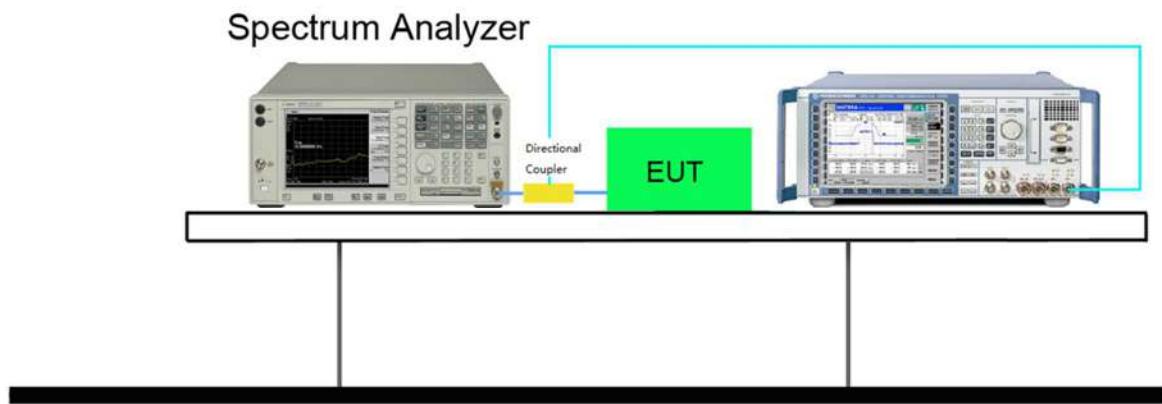
7.4.2. Test Procedure Used

KDB 971168 D01v02r02 – Section 6.0 & ANSI/TIA-603-D-2010

7.4.3. Test Setting

In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

7.4.4. Test Setup



7.4.5. Test Result

Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Limit (dBm)	Result
LTE Band 2 (Low Channel)	QPSK	18607/1850.7	1.4	1	0	-13	PASS
			1.4	6	0	-13	PASS
		18615/1851.5	3	1	0	-13	PASS
			3	15	0	-13	PASS
		18625/1852.5	5	1	0	-13	PASS
			5	25	0	-13	PASS
		18650/1855	10	1	0	-13	PASS
			10	50	0	-13	PASS
		18675/1857.5	15	1	0	-13	PASS
			15	75	0	-13	PASS
	16QAM	18700/1860	20	1	0	-13	PASS
			20	100	0	-13	PASS
		18607/1850.7	1.4	1	0	-13	PASS
			1.4	6	0	-13	PASS
		18615/1851.5	3	1	0	-13	PASS
			3	15	0	-13	PASS
		18625/1852.5	5	1	0	-13	PASS
			5	25	0	-13	PASS
		18650/1855	10	1	0	-13	PASS
			10	50	0	-13	PASS
		18675/1857.5	15	1	0	-13	PASS
			15	75	0	-13	PASS
		18700/1860	20	1	0	-13	PASS
			20	100	0	-13	PASS

LTE Band 2 (High Channel)	QPSK	19193/1909.3	1.4	1	5	-13	PASS
		19193/1909.3	1.4	6	0	-13	PASS
		19185/1908.5	3	1	14	-13	PASS
		19185/1908.5	3	15	0	-13	PASS
		19175/1907.5	5	1	24	-13	PASS
		19175/1907.5	5	25	0	-13	PASS
		19150/1905	10	1	49	-13	PASS
		19150/1905	10	50	0	-13	PASS
		19125/1902.5	15	1	74	-13	PASS
		19125/1902.5	15	75	0	-13	PASS
	16QAM	19100/1900	20	1	99	-13	PASS
		19100/1900	20	100	0	-13	PASS
		19193/1909.3	1.4	1	5	-13	PASS
		19193/1909.3	1.4	6	0	-13	PASS
		19185/1908.5	3	1	14	-13	PASS
		19185/1908.5	3	15	0	-13	PASS
		19175/1907.5	5	1	24	-13	PASS
		19175/1907.5	5	25	0	-13	PASS
	16QAM	19150/1905	10	1	49	-13	PASS
		19150/1905	10	50	0	-13	PASS
		19125/1902.5	15	1	74	-13	PASS
		19125/1902.5	15	75	0	-13	PASS
	16QAM	19100 /1900	20	1	99	-13	PASS
		19100 /1900	20	100	0	-13	PASS

Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Limit (dBm)	Result
LTE Band 4 (Low Channel)	QPSK	19957/1710.7	1.4	1	0	-13	PASS
			1.4	6	0	-13	PASS
		19965/1711.5	3	1	0	-13	PASS
			3	15	0	-13	PASS
		19975/1712.5	5	1	0	-13	PASS
			5	25	0	-13	PASS
		20000/1715	10	1	0	-13	PASS
			10	50	0	-13	PASS
		20025/1717.5	15	1	0	-13	PASS
			15	75	0	-13	PASS
	16QAM	20050/1720	20	1	0	-13	PASS
			20	100	0	-13	PASS
		19957/1710.7	1.4	1	0	-13	PASS
			1.4	6	0	-13	PASS
		19965/1711.5	3	1	0	-13	PASS
			3	15	0	-13	PASS
		19975/1712.5	5	1	0	-13	PASS
			5	25	0	-13	PASS
		20000/1715	10	1	0	-13	PASS
			10	50	0	-13	PASS
		20025/1717.5	15	1	0	-13	PASS
			15	75	0	-13	PASS
		20050/1720	20	1	0	-13	PASS
			20	100	0	-13	PASS

LTE Band 4 (High Channel)	QPSK	20393/1754.3	1.4	1	5	-13	PASS
		20393/1754.3	1.4	6	0	-13	PASS
		20385/1753.5	3	1	14	-13	PASS
		20385/1753.5	3	15	0	-13	PASS
		20375/1752.5	5	1	24	-13	PASS
		20375/1752.5	5	25	0	-13	PASS
		20350/1750	10	1	49	-13	PASS
		20350/1750	10	50	0	-13	PASS
		20325/1747.5	15	1	74	-13	PASS
		20325/1747.5	15	75	0	-13	PASS
	16QAM	20300/1745	20	1	99	-13	PASS
		20300/1745	20	100	0	-13	PASS
		20393/1754.3	1.4	1	5	-13	PASS
		20393/1754.3	1.4	6	0	-13	PASS
		20385/1753.5	3	1	14	-13	PASS
		20385/1753.5	3	15	0	-13	PASS
		20375/1752.5	5	1	24	-13	PASS
		20375/1752.5	5	25	0	-13	PASS
		20350/1750	10	1	49	-13	PASS
		20350/1750	10	50	0	-13	PASS
		20325/1747.5	15	1	74	-13	PASS
		20325/1747.5	15	75	0	-13	PASS
		20300/1745	20	1	99	-13	PASS
		20300/1745	20	100	0	-13	PASS

Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Limit (dBm)	Result
LTE Band 5 (Low Channel)	QPSK	20407/824.7	1.4	1	0	-13	PASS
			1.4	6	0	-13	PASS
		20415/825.5	3	1	0	-13	PASS
			3	15	0	-13	PASS
		20425/826.5	5	1	0	-13	PASS
			5	25	0	-13	PASS
	16QAM	20450/829	10	1	0	-13	PASS
			10	50	0	-13	PASS
		20407/824.7	1.4	1	0	-13	PASS
			1.4	6	0	-13	PASS
LTE Band 5 (High Channel)	QPSK	20643/848.3	1.4	1	5	-13	PASS
			1.4	6	0	-13	PASS
		20635/847.5	3	1	14	-13	PASS
			3	15	0	-13	PASS
		20625/846.5	5	1	24	-13	PASS
			5	25	0	-13	PASS
	16QAM	20600/844	10	1	49	-13	PASS
			10	50	0	-13	PASS
		20643/848.3	1.4	1	5	-13	PASS
			1.4	6	0	-13	PASS
		20635/847.5	3	1	14	-13	PASS
			3	15	0	-13	PASS
		20625/846.5	5	1	24	-13	PASS
			5	25	0	-13	PASS
	20600/844	10	1	49	-13	PASS	
		10	50	0	-13	PASS	

Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Limit (dBm)	Result
LTE Band 7 (Low Channel)	QPSK	20775/2502.5	5	1	0	27.53(m)(4)	PASS
			5	25	0	27.53(m)(4)	PASS
		20800/2505	10	1	0	27.53(m)(4)	PASS
			10	50	0	27.53(m)(4)	PASS
		20825/2507.5	15	1	0	27.53(m)(4)	PASS
			15	75	0	27.53(m)(4)	PASS
		20850/2510	20	1	0	27.53(m)(4)	PASS
			20	100	0	27.53(m)(4)	PASS
	16QAM	20775/2502.5	5	1	0	27.53(m)(4)	PASS
			5	25	0	27.53(m)(4)	PASS
		20800/2505	10	1	0	27.53(m)(4)	PASS
			10	50	0	27.53(m)(4)	PASS
		20825/2507.5	15	1	0	27.53(m)(4)	PASS
			15	75	0	27.53(m)(4)	PASS
		20850/2510	20	1	0	27.53(m)(4)	PASS
			20	100	0	27.53(m)(4)	PASS
LTE Band 7 (High Channel)	QPSK	21425/2567.5	5	1	24	27.53(m)(4)	PASS
			5	25	0	27.53(m)(4)	PASS
		21400/2565	10	1	49	27.53(m)(4)	PASS
			10	50	0	27.53(m)(4)	PASS
		21375/2562.5	15	1	74	27.53(m)(4)	PASS
			15	75	0	27.53(m)(4)	PASS
		21350/2560	20	1	99	27.53(m)(4)	PASS
			20	100	0	27.53(m)(4)	PASS
	16QAM	21425/2567.5	5	1	24	27.53(m)(4)	PASS
			5	25	0	27.53(m)(4)	PASS
		21400/2565	10	1	49	27.53(m)(4)	PASS
			10	50	0	27.53(m)(4)	PASS
		21375/2562.5	15	1	74	27.53(m)(4)	PASS
			15	75	0	27.53(m)(4)	PASS
		21350/2560	20	1	99	27.53(m)(4)	PASS
			20	100	0	27.53(m)(4)	PASS