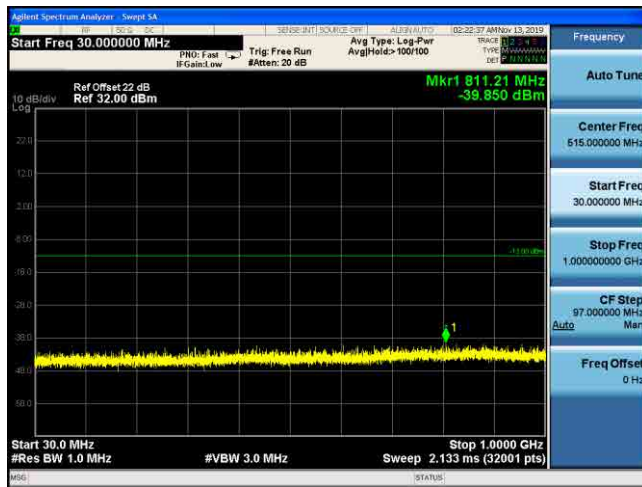
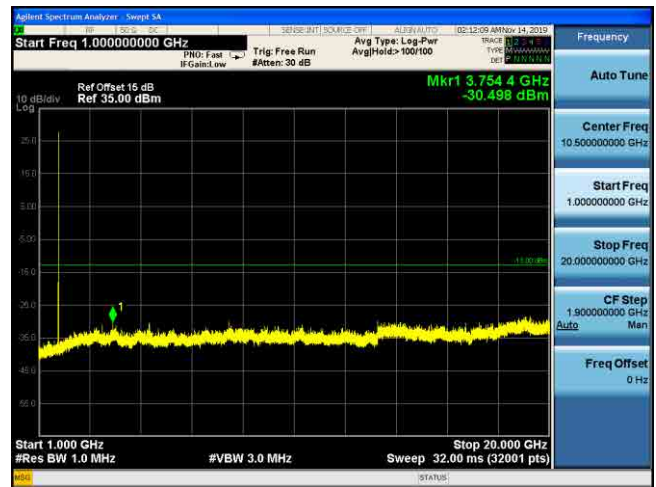


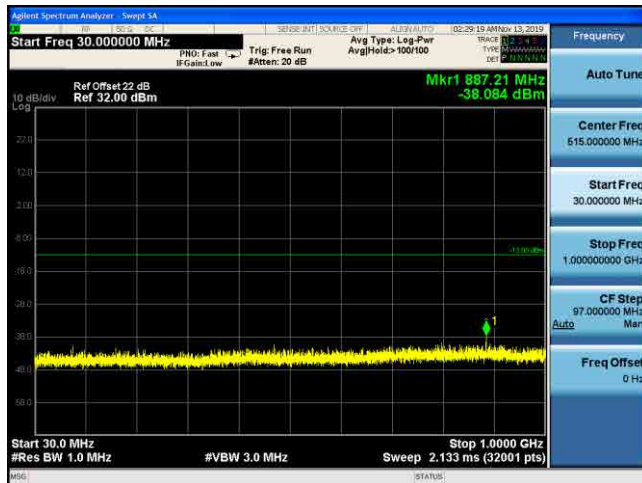
LTE Band 4 16QAM 1.4MHz CH20175 1RB#2_30MHz-1GHz



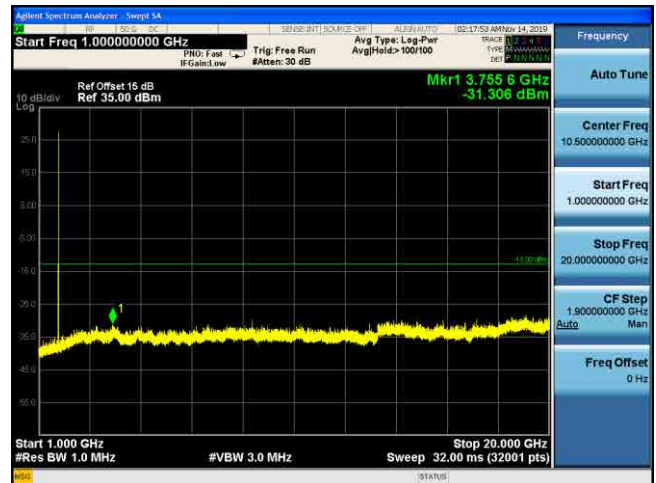
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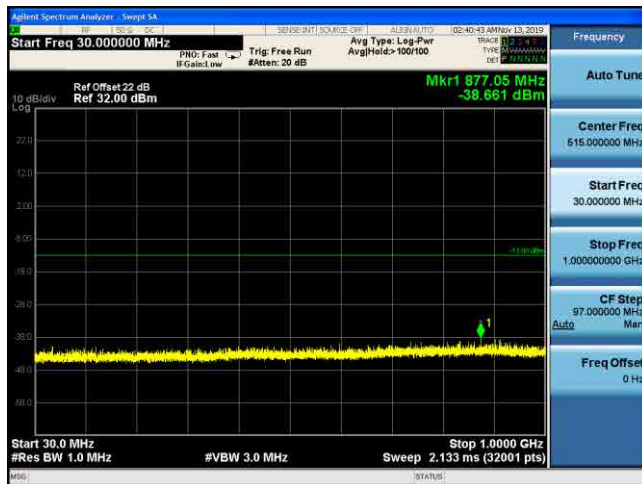
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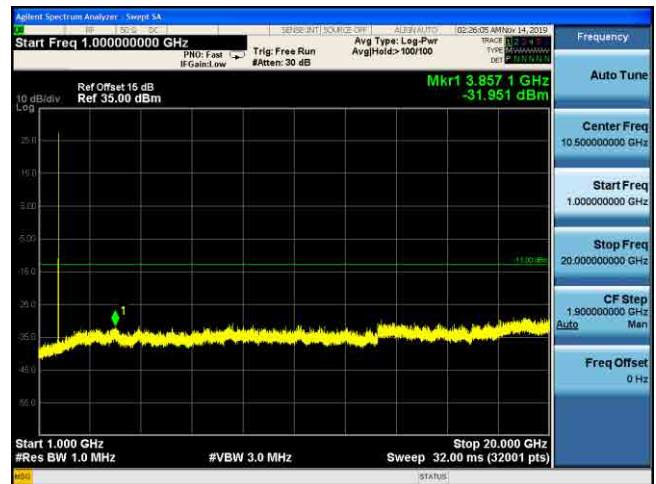
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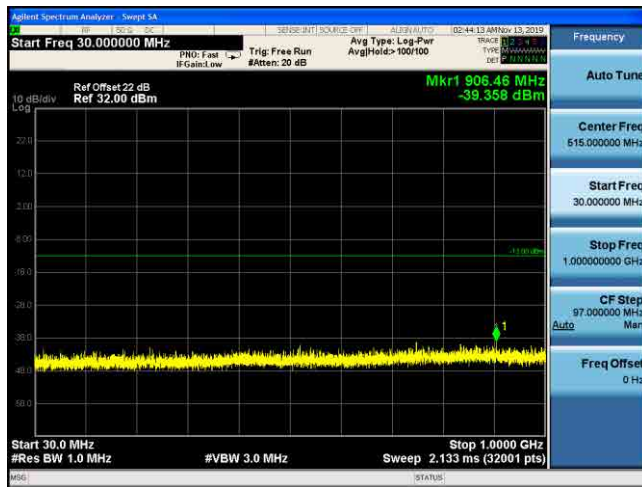
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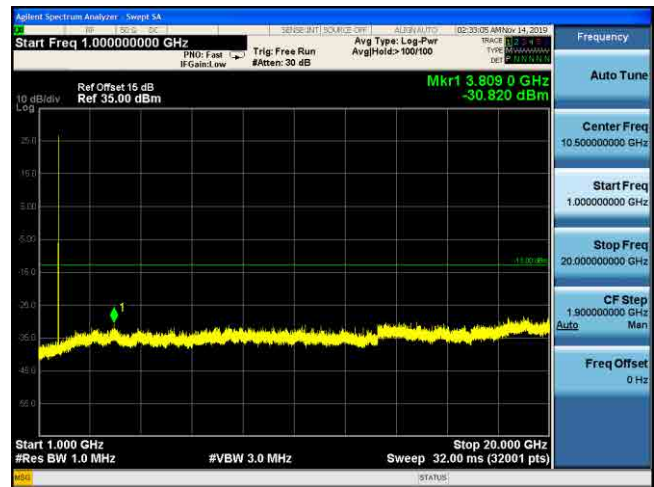
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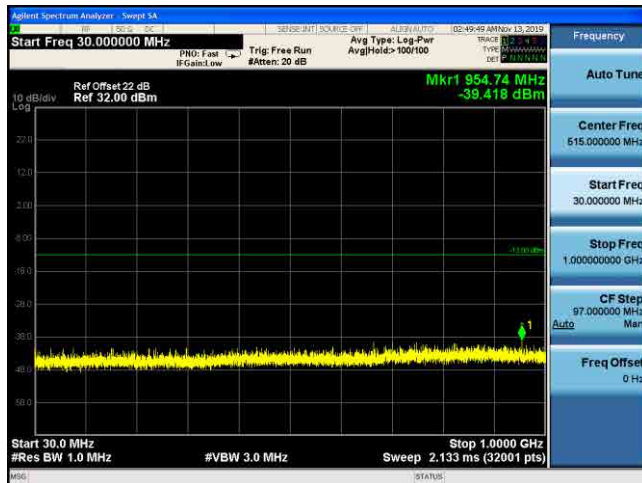
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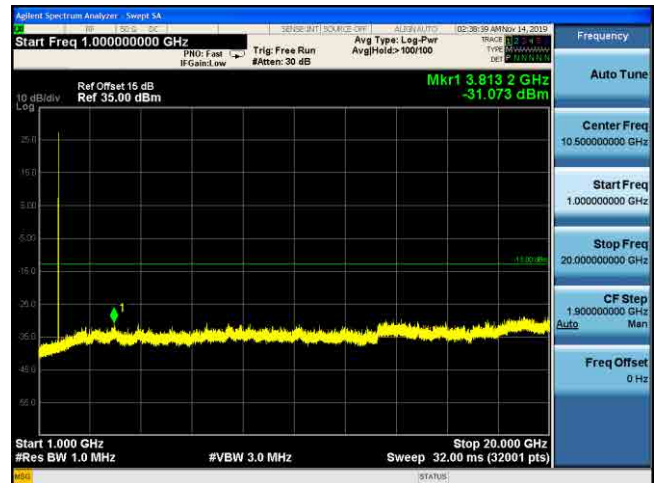
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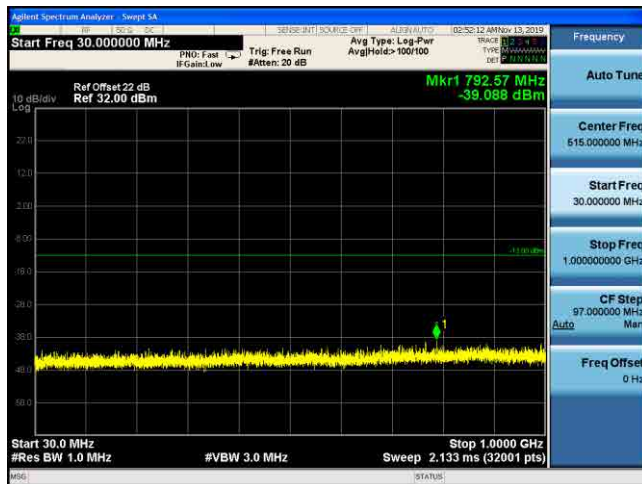
LTE Band 4 16QAM 15MHz CH20175 1RB#36_30MHz-1GHz



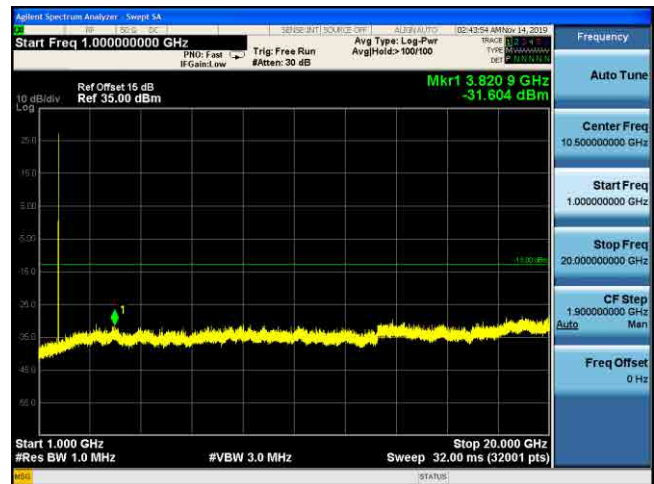
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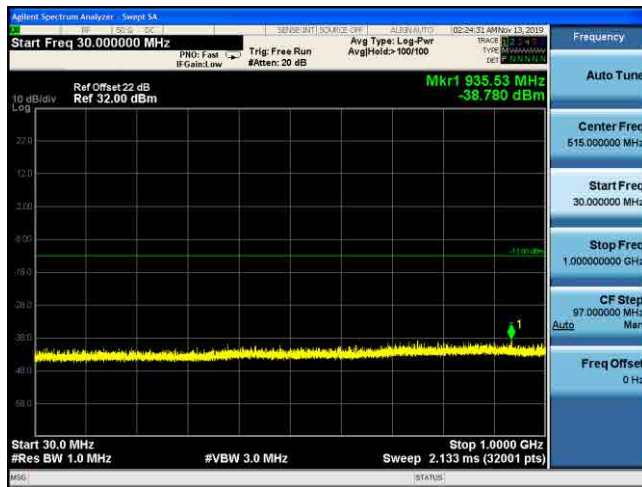
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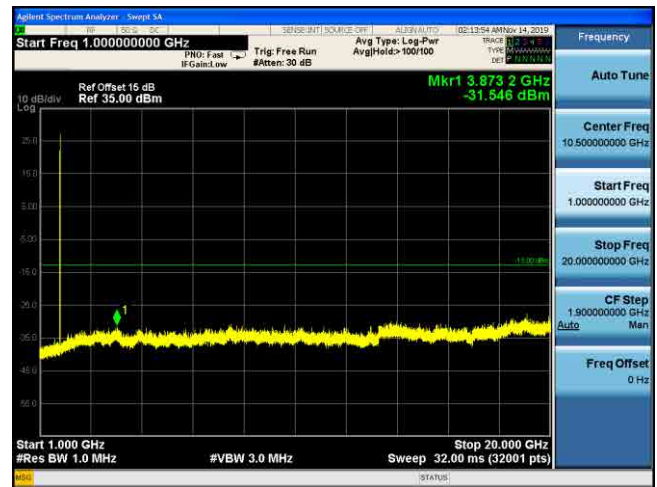
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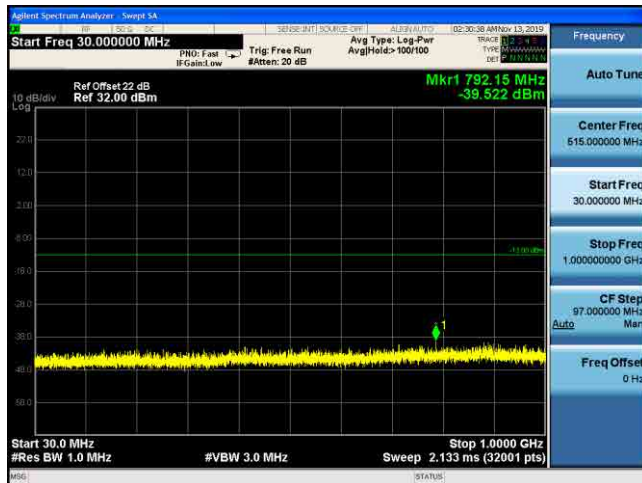
LTE Band 4 QPSK 1.4MHz CH20393 1RB#2_30MHz-1GHz



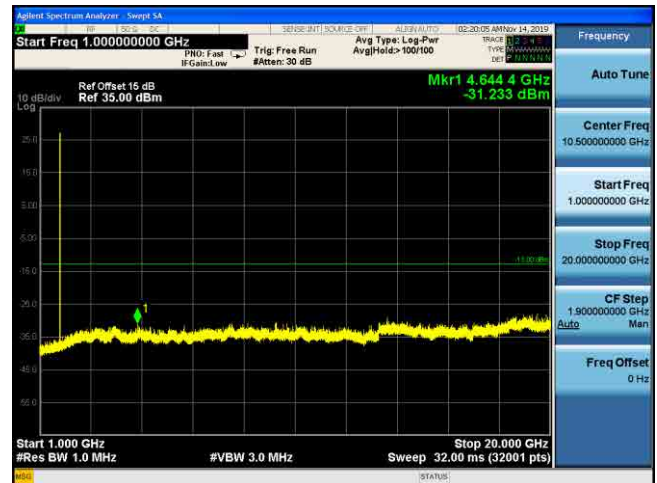
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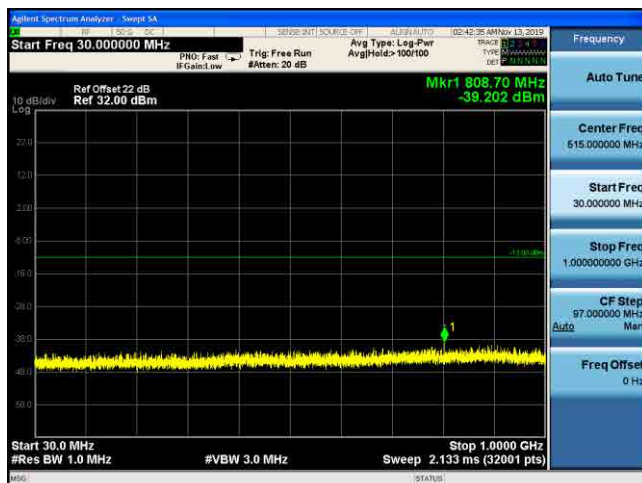
LTE Band 4 QPSK 3MHz CH20385 1RB#7_30MHz-1GHz



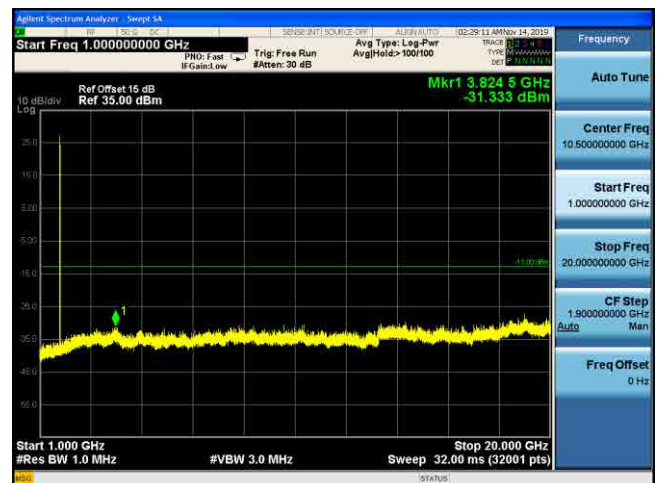
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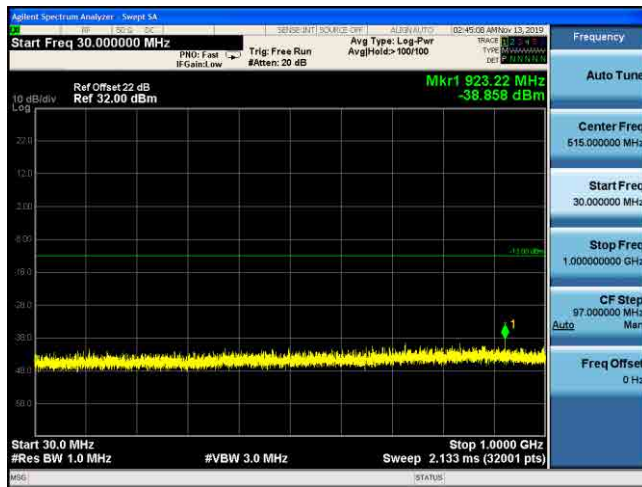
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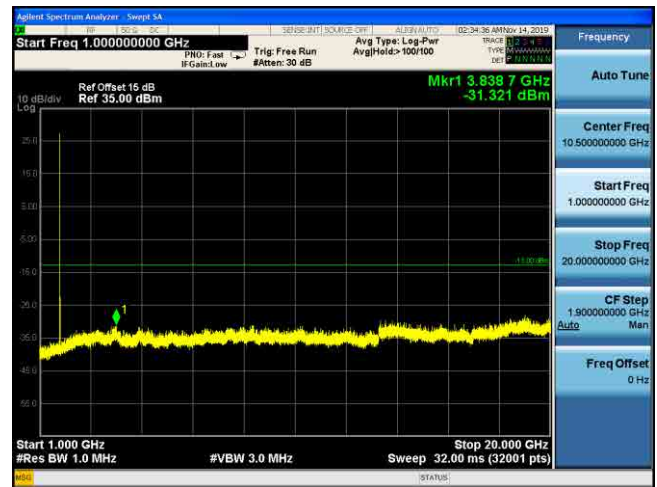
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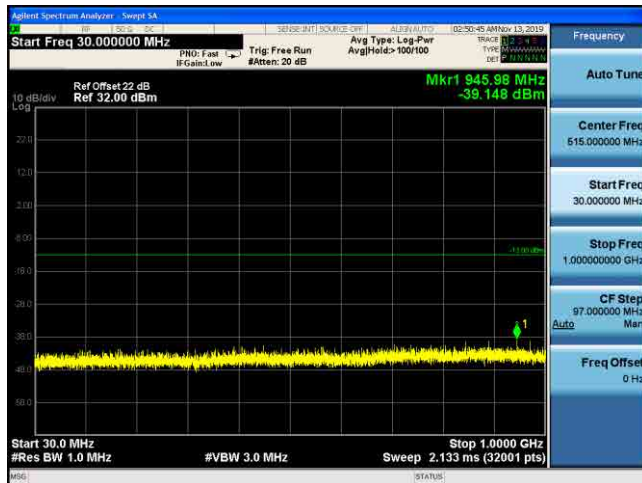
LTE Band 4 QPSK 10MHz CH20350 1RB#25_30MHz-1GHz



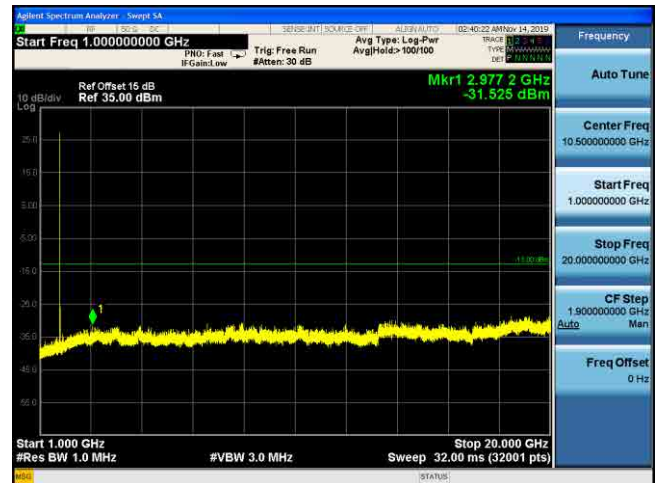
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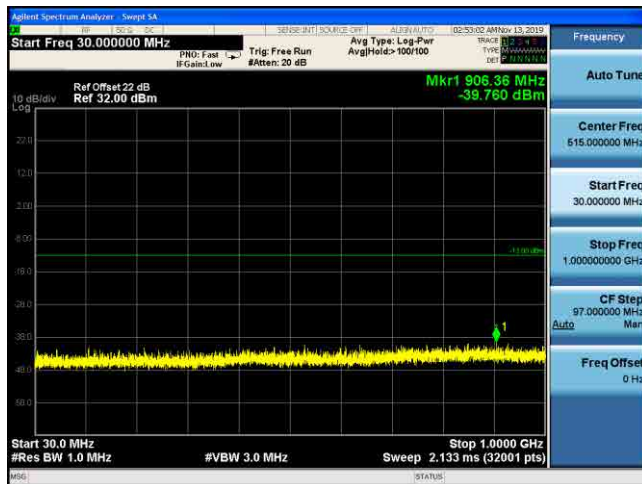
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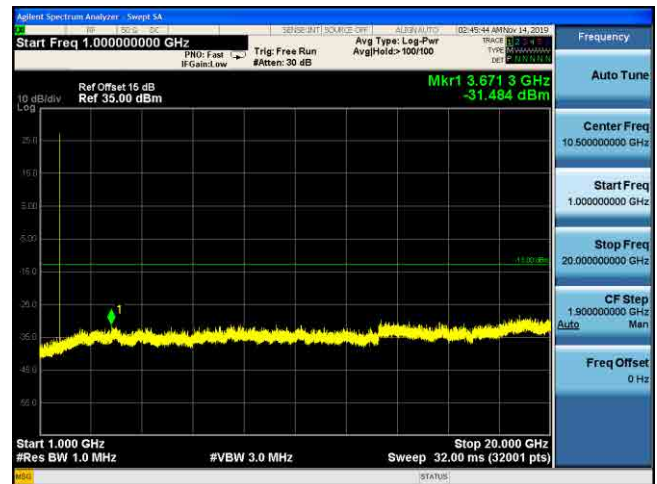
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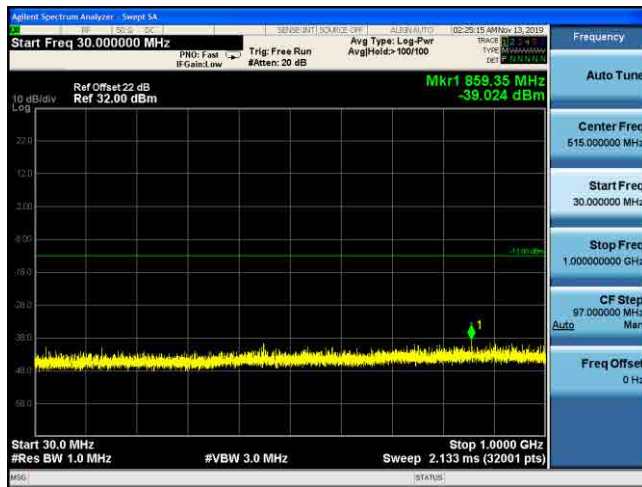
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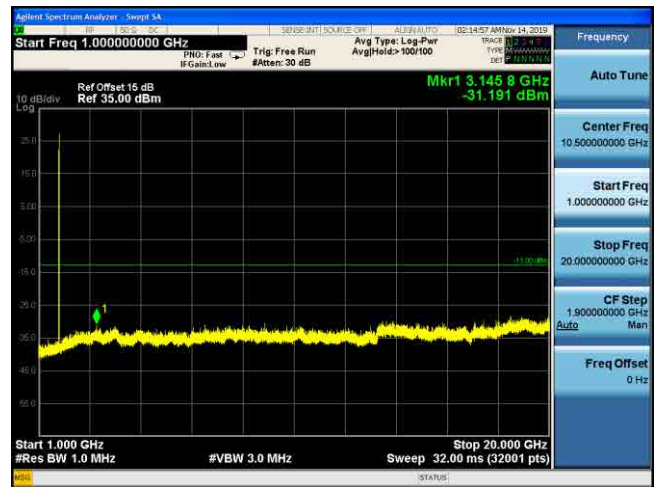
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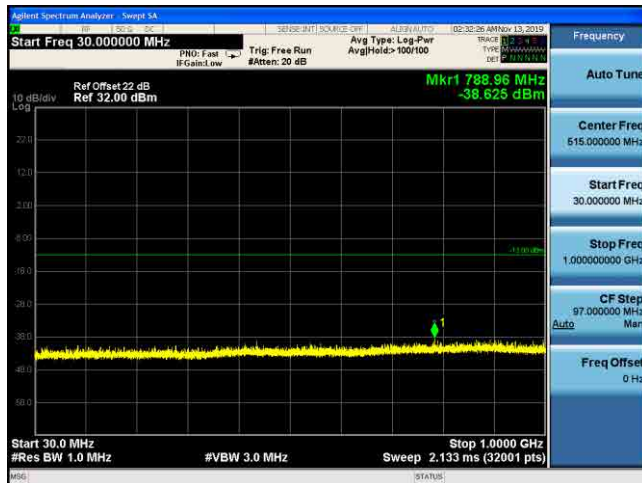
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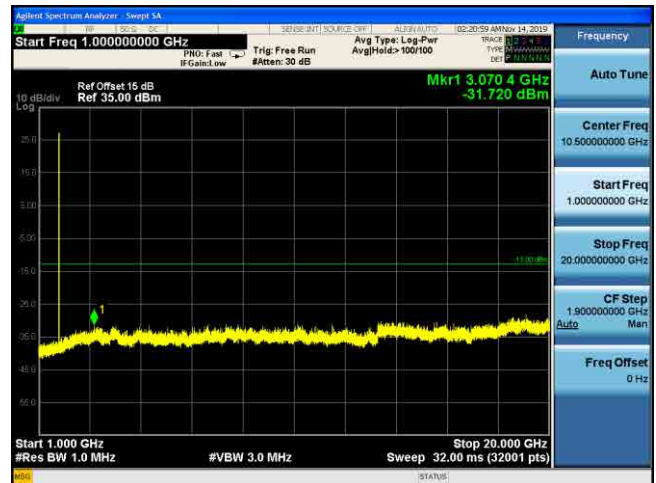
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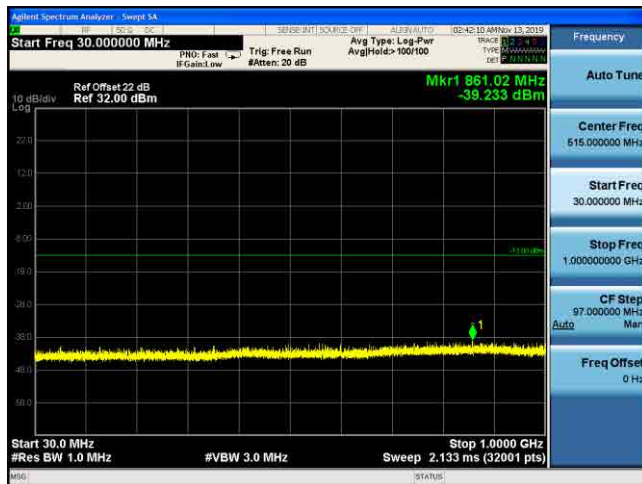
LTE Band 4 16QAM 3MHz CH20385 1RB#7_30MHz-1GHz



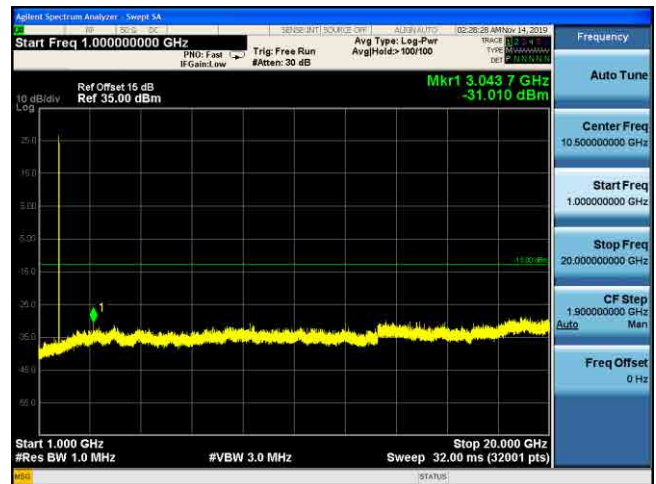
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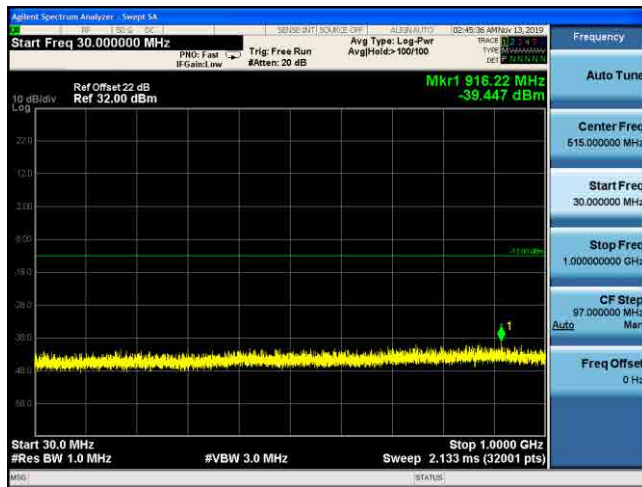
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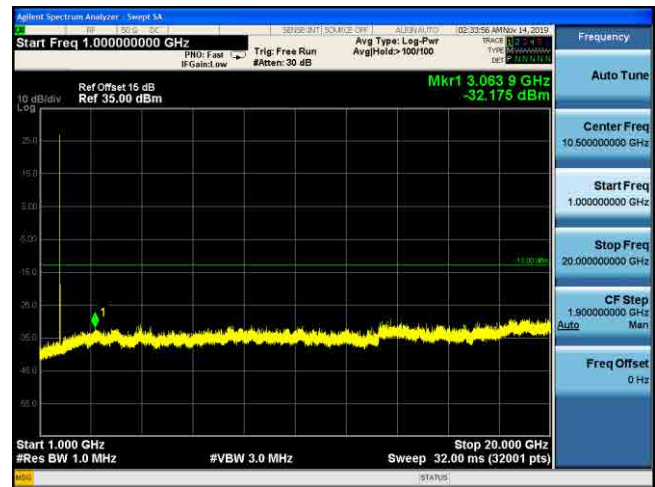
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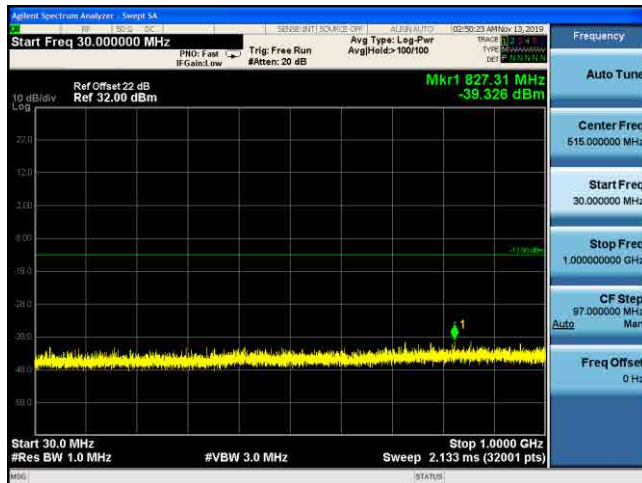
LTE Band 4 16QAM 10MHz CH20350 1RB#25_30MHz-1GHz



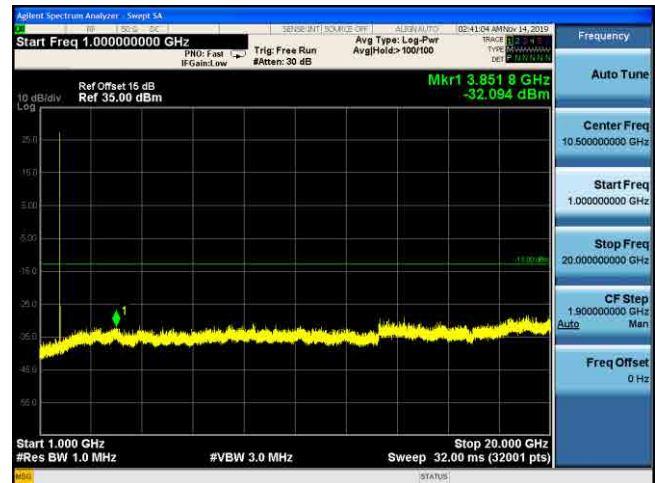
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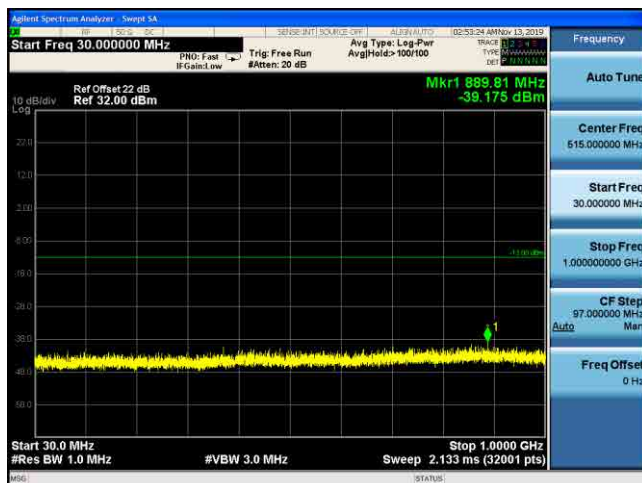
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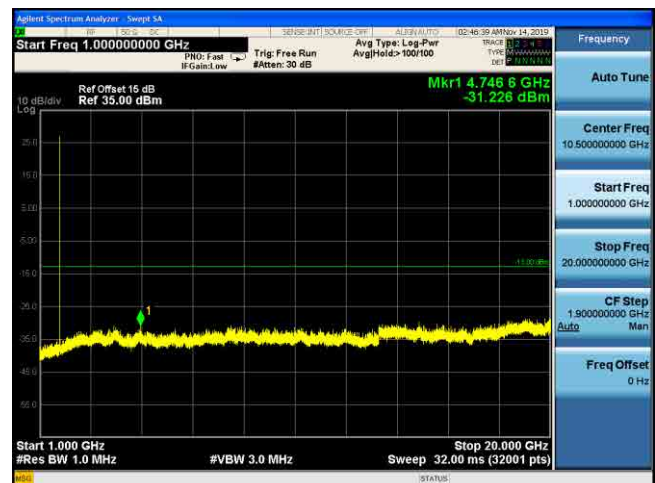
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LTE Band 4 16QAM 20MHz CH20300 1RB#49_30MHz-1GHz

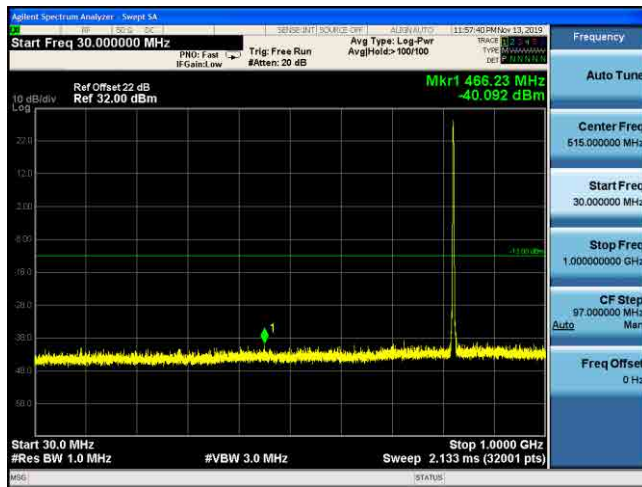


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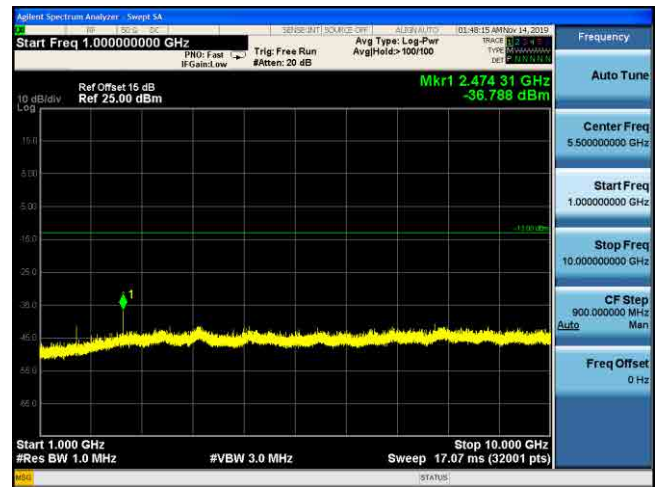


Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 5 (Low Channel)	QPSK	CH20407 / 824.7MHz	1.4	1	2	Pass
		CH20415 / 825.5MHz	3	1	7	Pass
		CH20425 / 826.5MHz	5	1	12	Pass
		CH20450 / 829MHz	10	1	25	Pass
	16QAM	CH20407 / 824.7MHz	1.4	1	2	Pass
		CH20415 / 825.5MHz	3	1	7	Pass
		CH20425 / 826.5MHz	5	1	12	Pass
		CH20450 / 829MHz	10	1	25	Pass
LTE Band 5 (Middle Channel)	QPSK	CH20525 / 836.5MHz	1.4	1	2	Pass
			3	1	7	Pass
			5	1	12	Pass
			10	1	25	Pass
	16QAM		1.4	1	2	Pass
			3	1	7	Pass
			5	1	12	Pass
			10	1	25	Pass
LTE Band 5 (High Channel)	QPSK	CH20643 / 848.3MHz	1.4	1	2	Pass
		CH20635 / 847.5MHz	3	1	7	Pass
		CH20625 / 846.5MHz	5	1	12	Pass
		CH20600 / 844MHz	10	1	25	Pass
	16QAM	CH20643 / 848.3MHz	1.4	1	2	Pass
		CH20635 / 847.5MHz	3	1	7	Pass
		CH20625 / 846.5MHz	5	1	12	Pass
		CH20600 / 844MHz	10	1	25	Pass

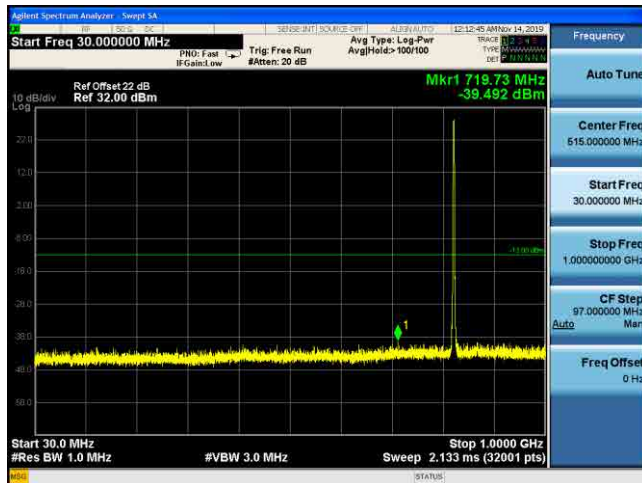
LTE Band 5 QPSK 1.4MHz CH20407 1RB#2_30MHz-1GHz



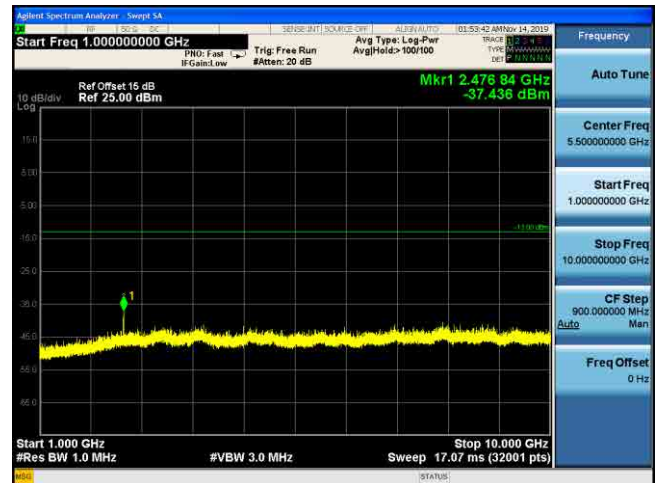
LTE Band 5 QPSK 1.4MHz CH20407 1RB#2_1GHz-10GHz



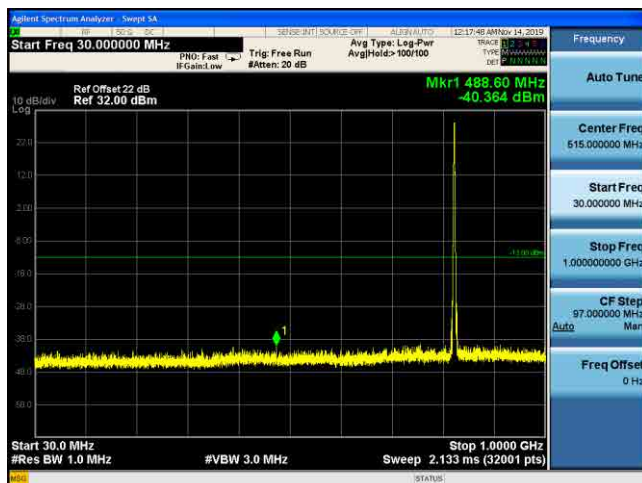
LTE Band 5 QPSK 3MHz CH20415 1RB#7_30MHz-1GHz



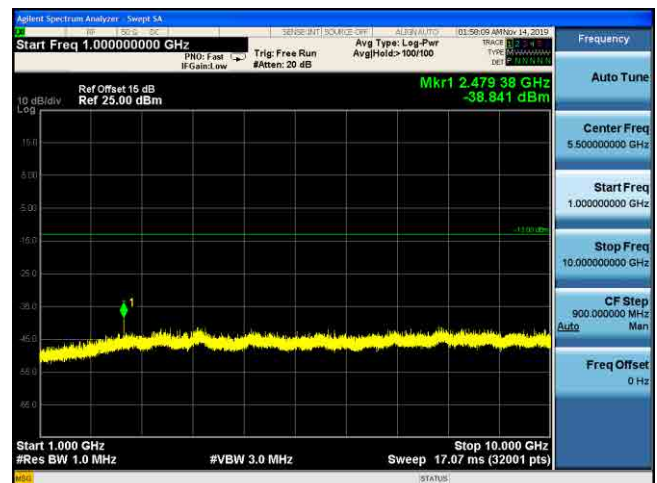
LTE Band 5 QPSK 3MHz CH20415 1RB#7_1GHz-10GHz



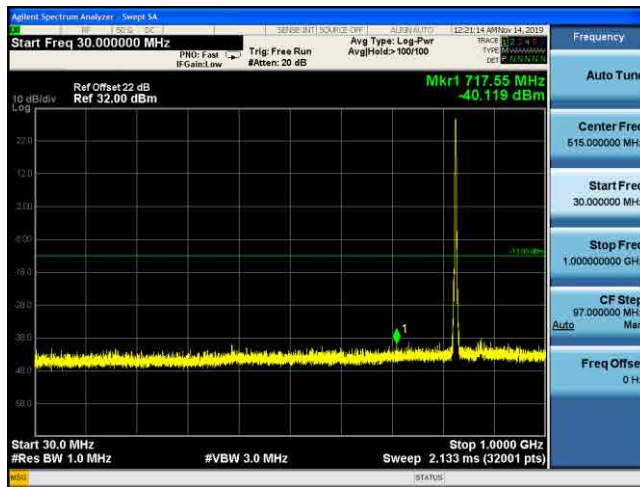
LTE Band 5 QPSK 5MHz CH20425 1RB#12_30MHz-1GHz



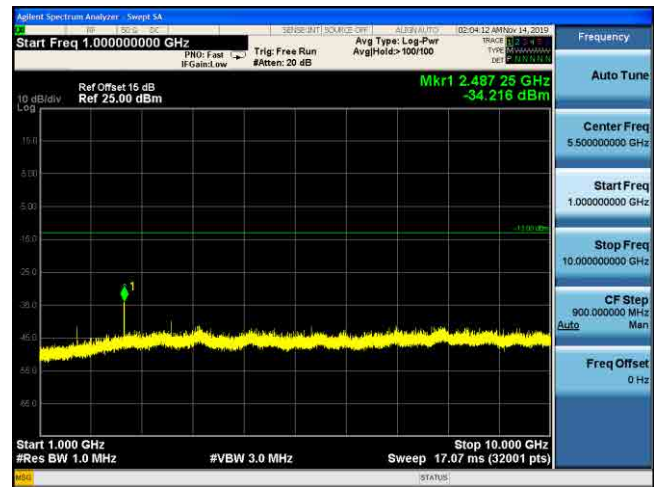
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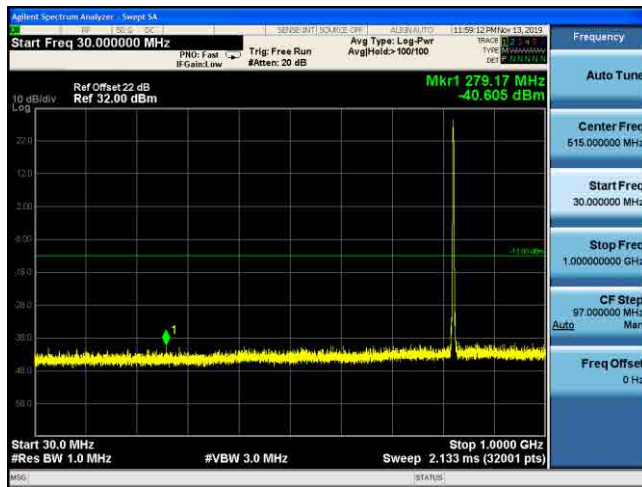
LTE Band 5 QPSK 10MHz CH20450 1RB#25_30MHz-1GHz



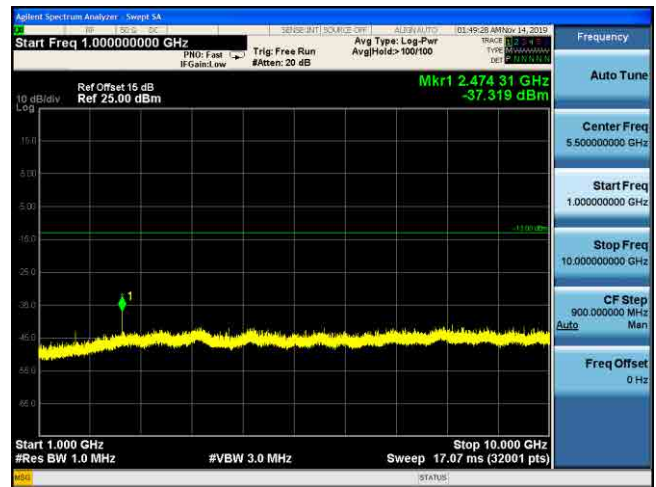
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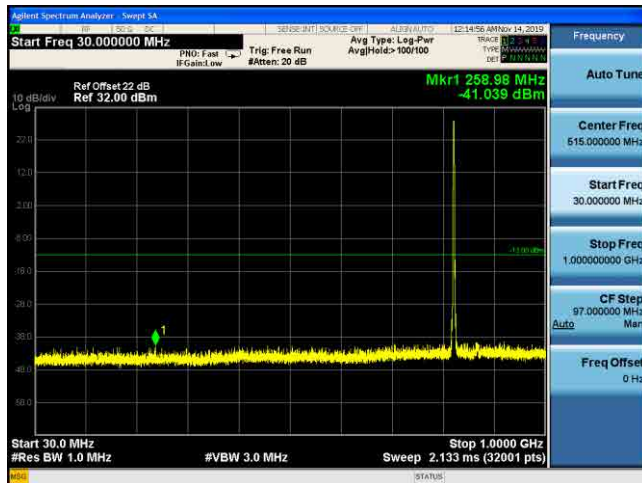
LTE Band 5 16QAM 1.4MHz CH20407 1RB#2_30MHz-1GHz



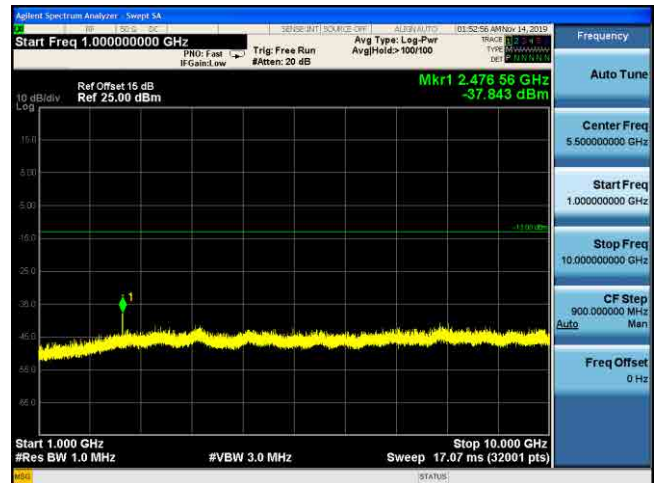
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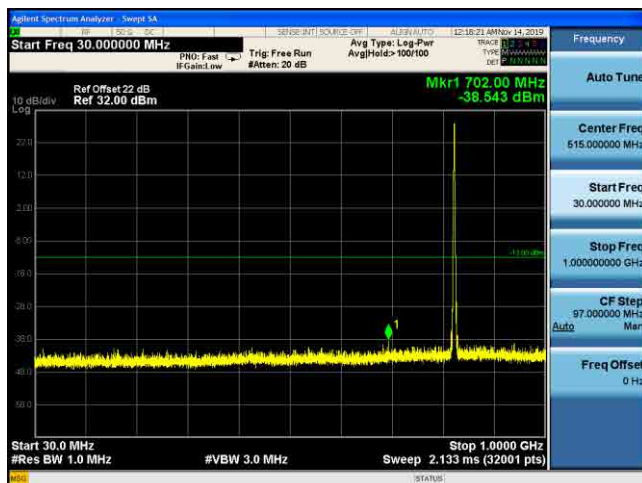
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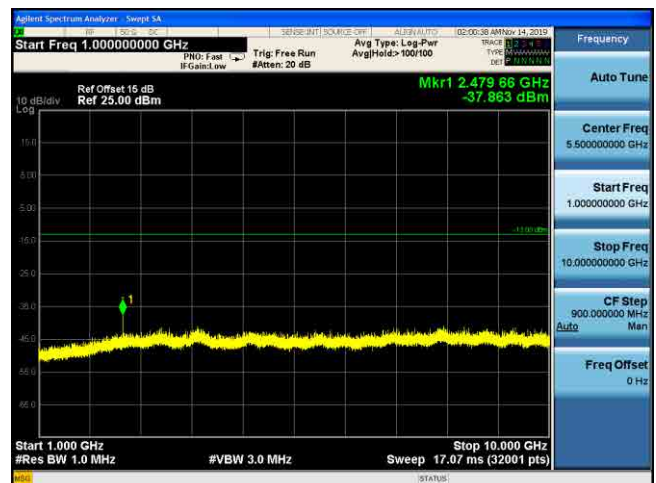
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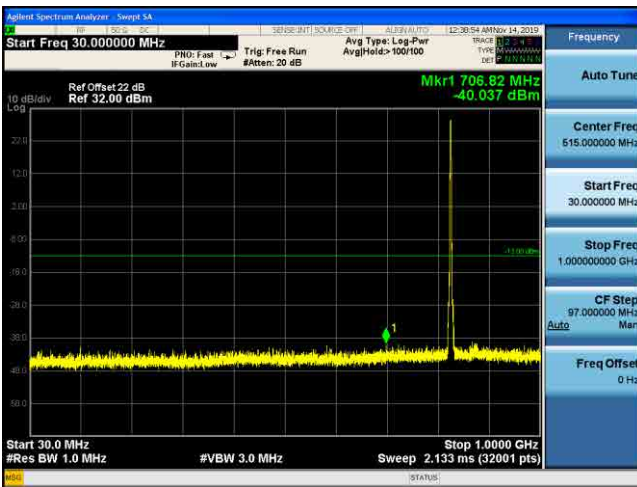
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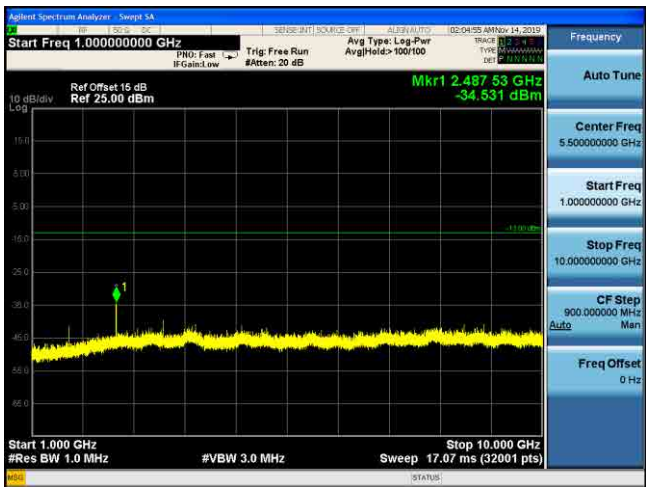
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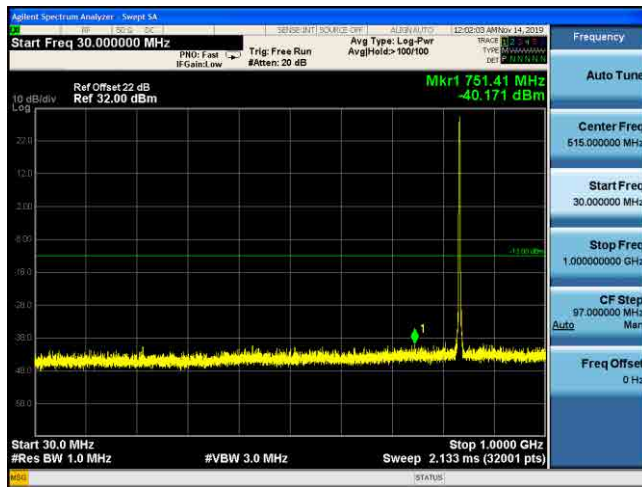
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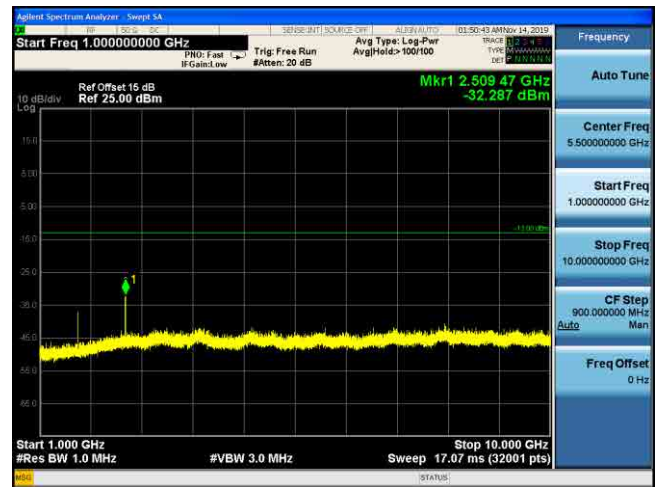
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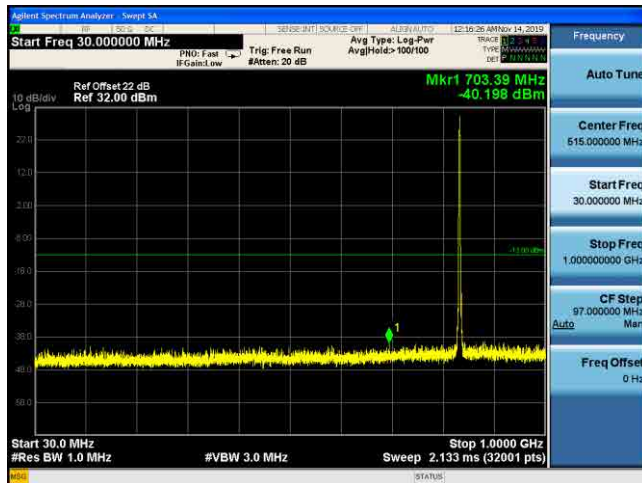
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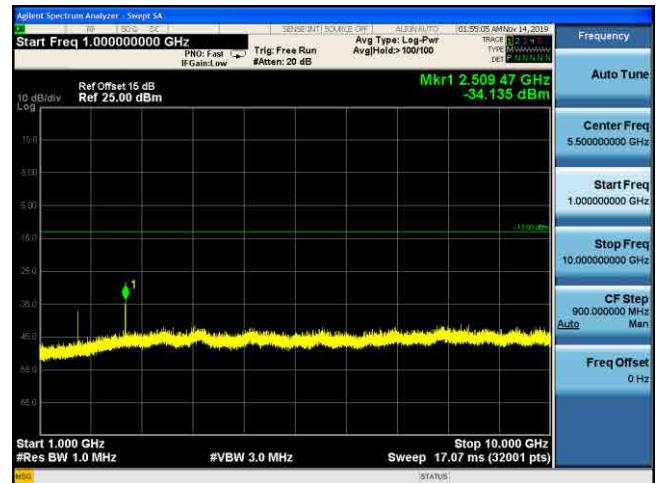
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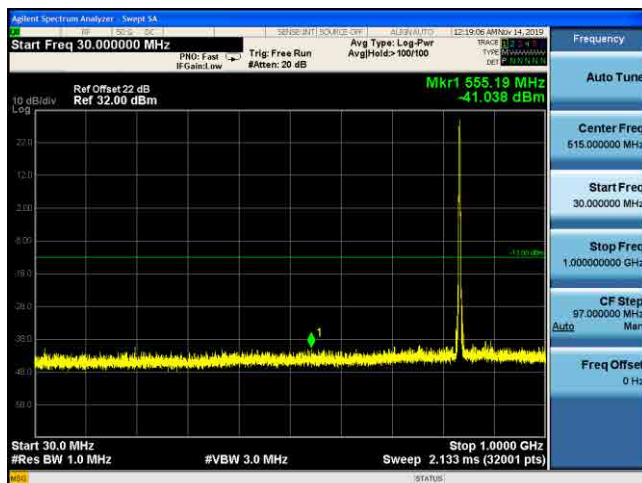
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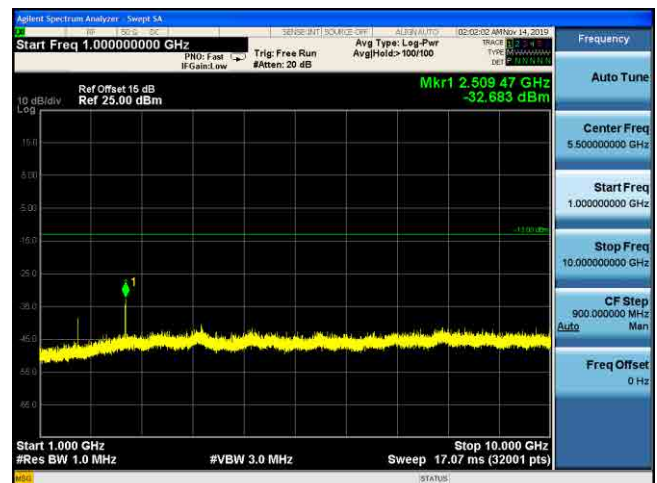
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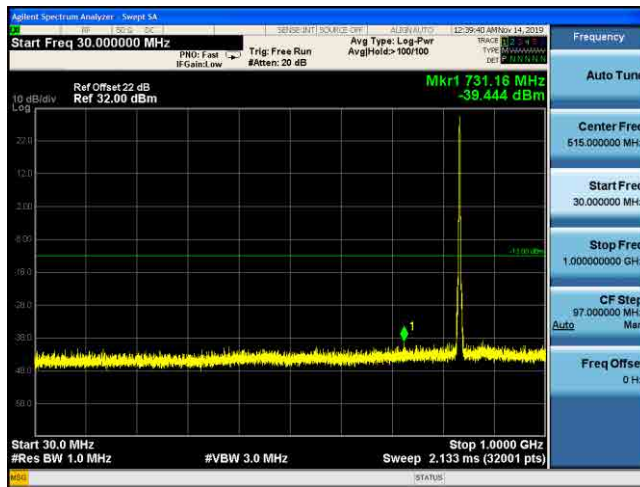
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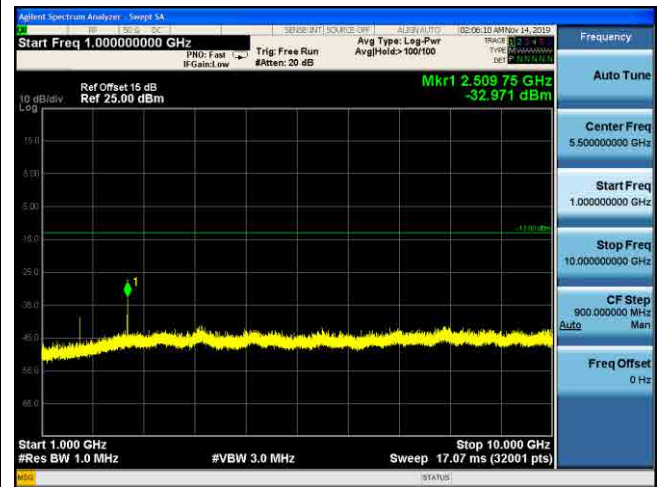
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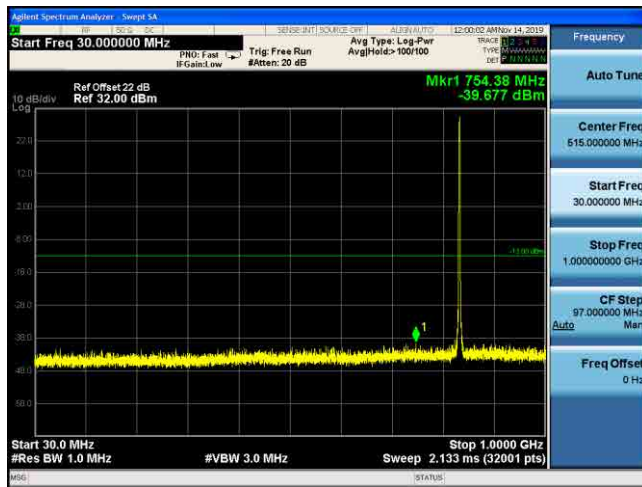
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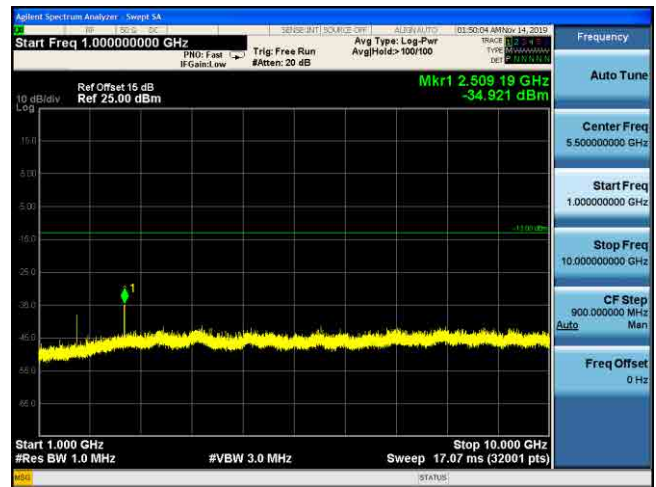
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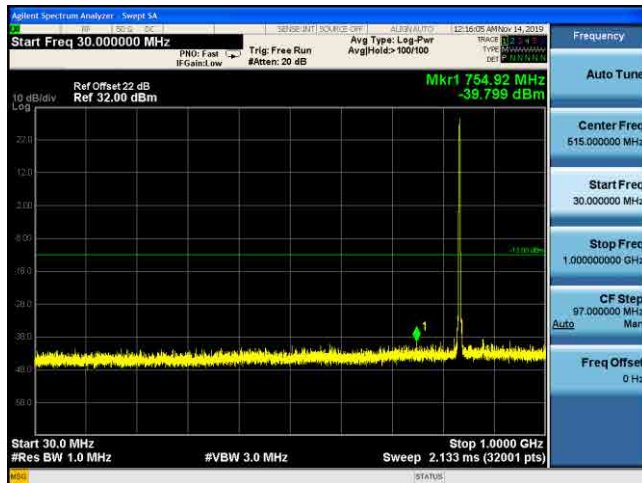
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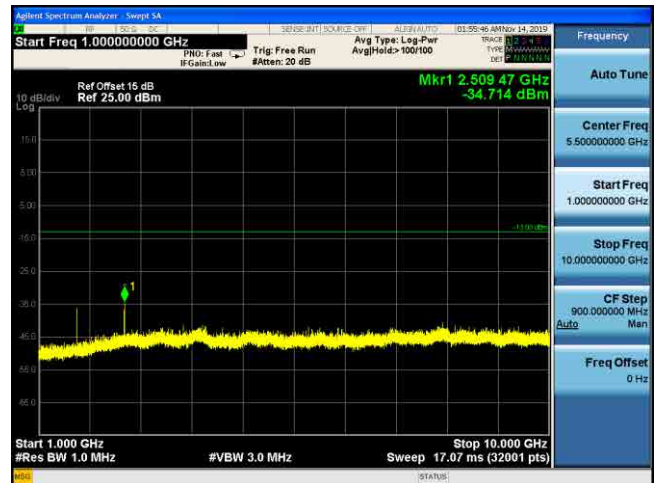
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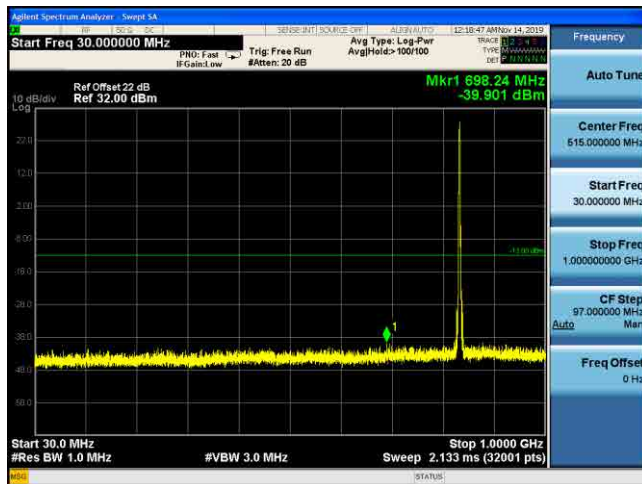
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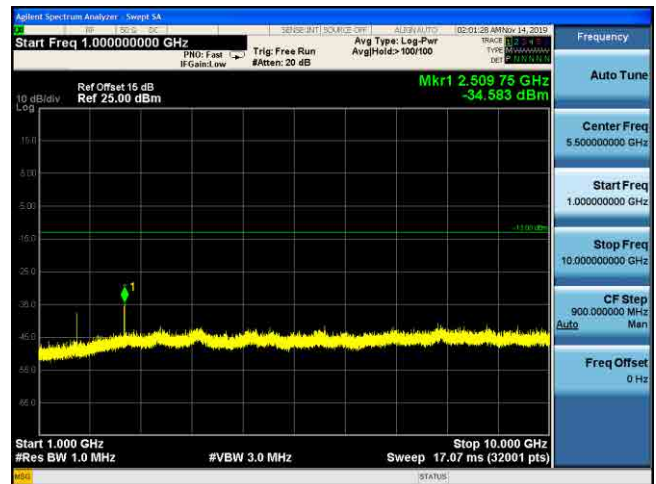
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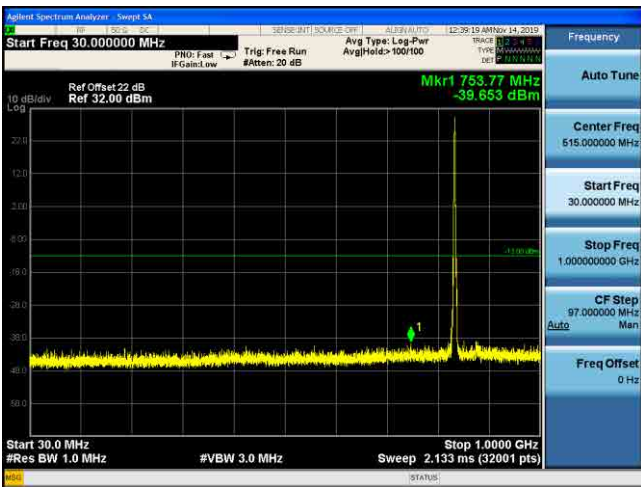
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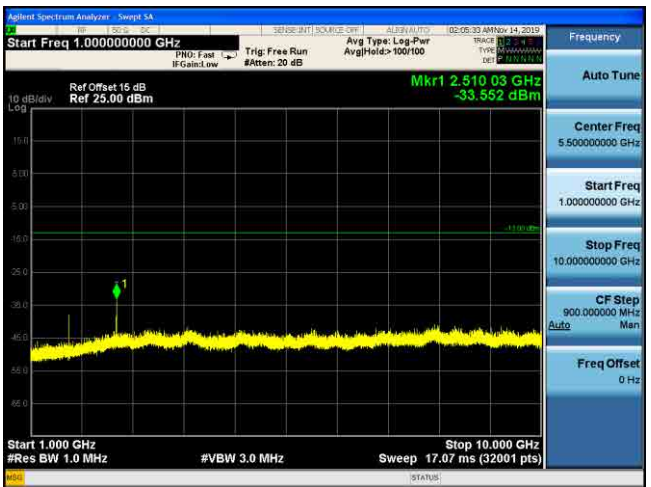
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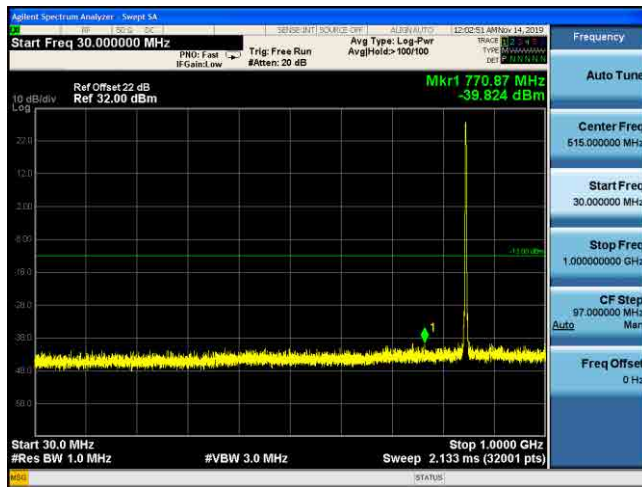
LTE Band 5 16QAM 10MHz CH20525 1RB#25_30MHz-1GHz



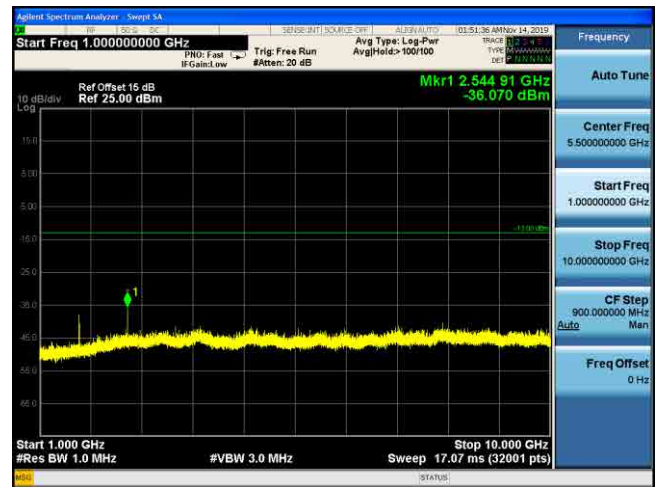
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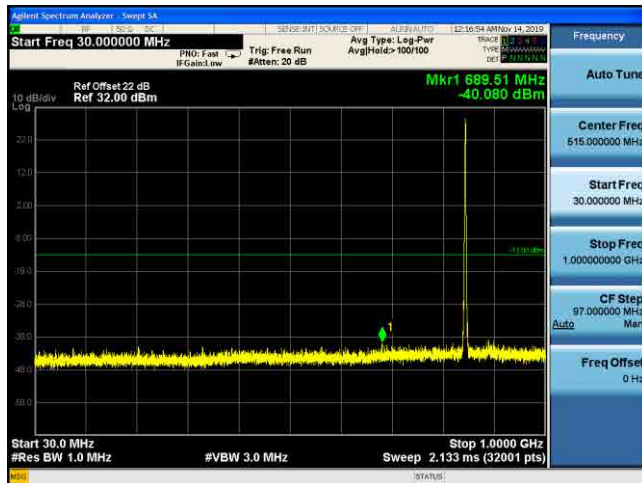
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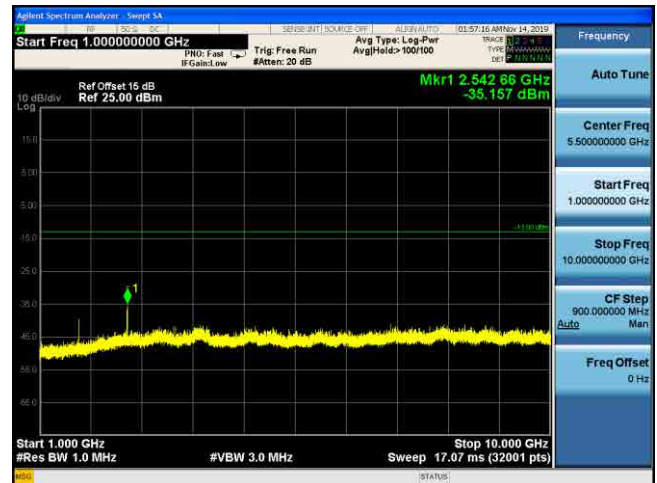
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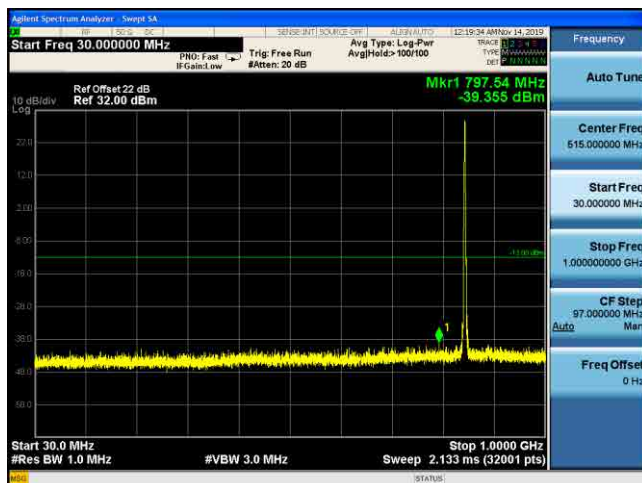
LTE Band 5 QPSK 3MHz CH20635 1RB#7_30MHz-1GHz



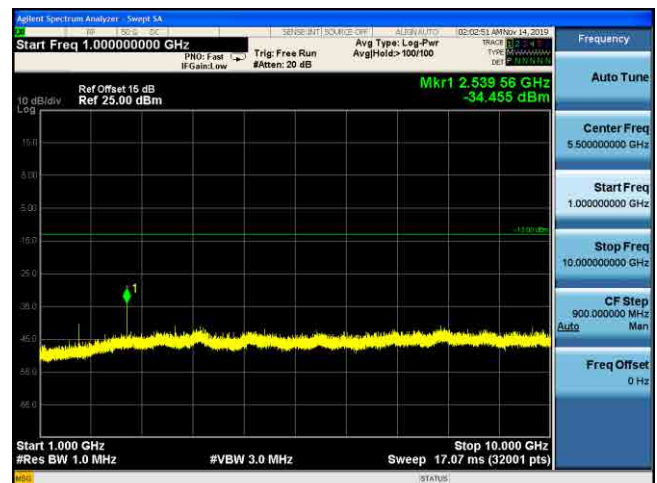
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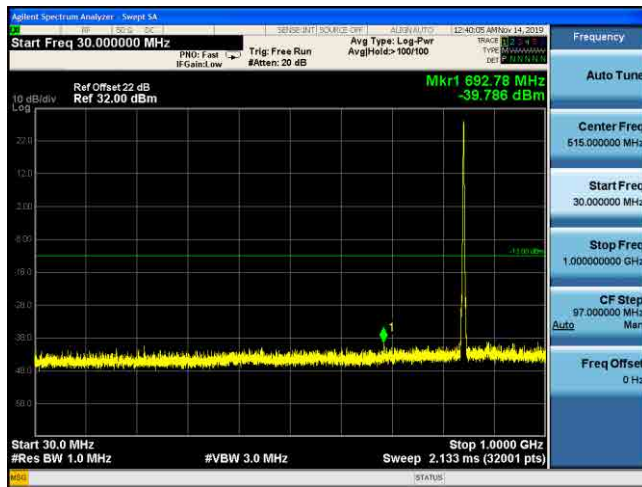
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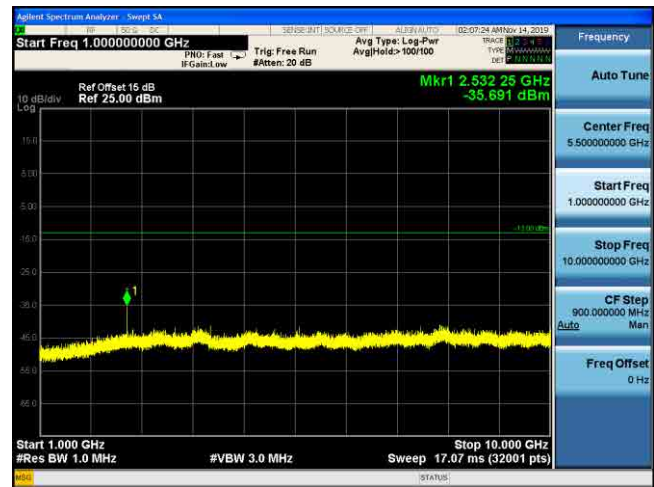
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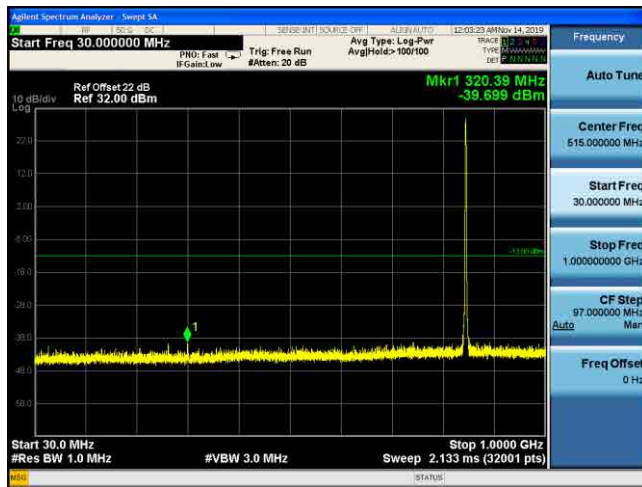
LTE Band 5 QPSK 10MHz CH20600 1RB#25_30MHz-1GHz



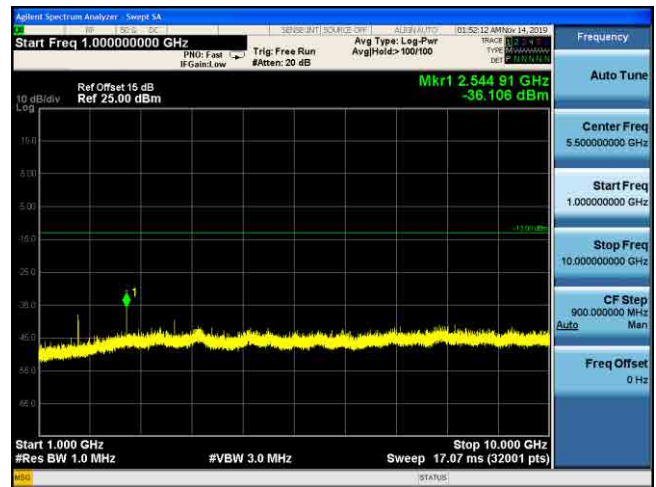
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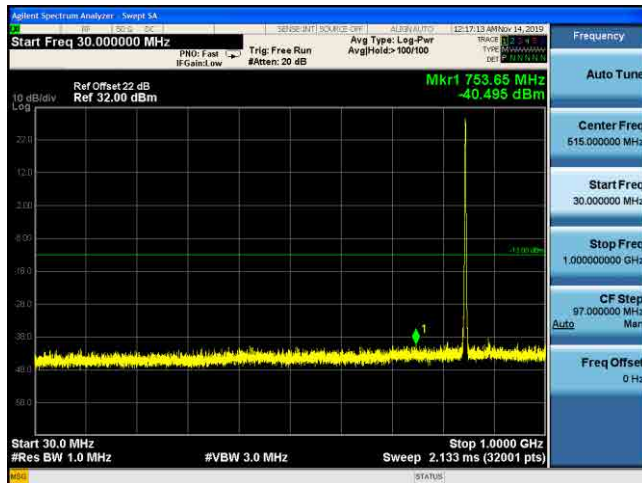
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LTE Band 5 16QAM 1.4MHz CH20643 1RB#2_1GHz-10GHz



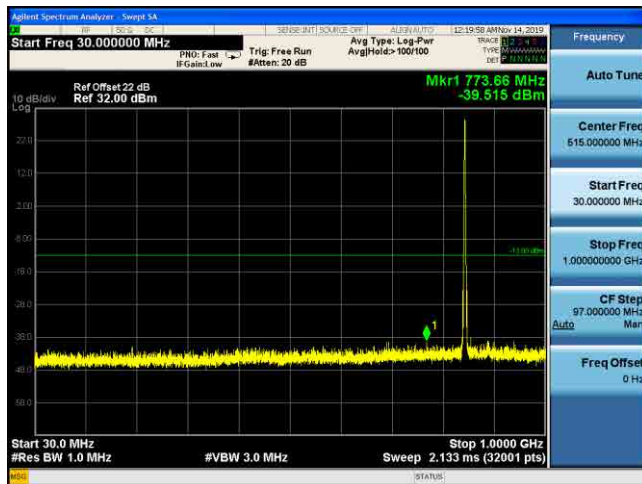
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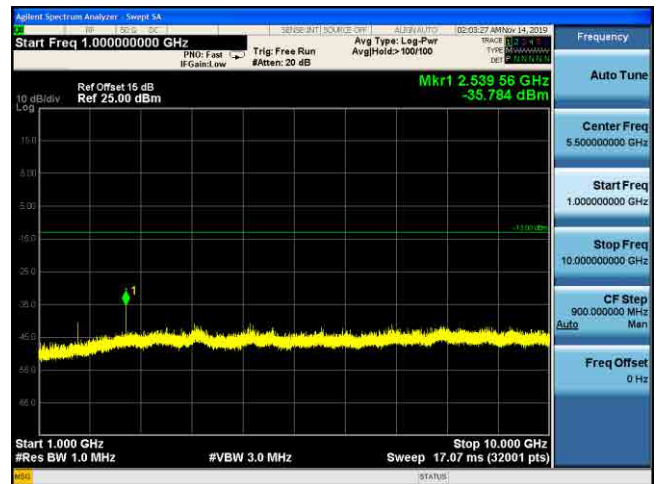
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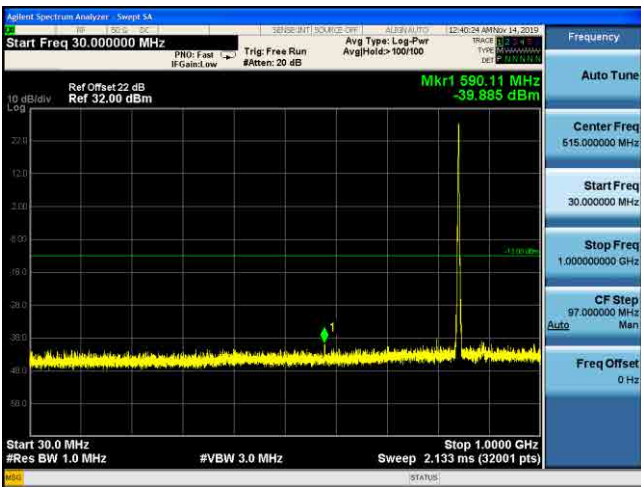
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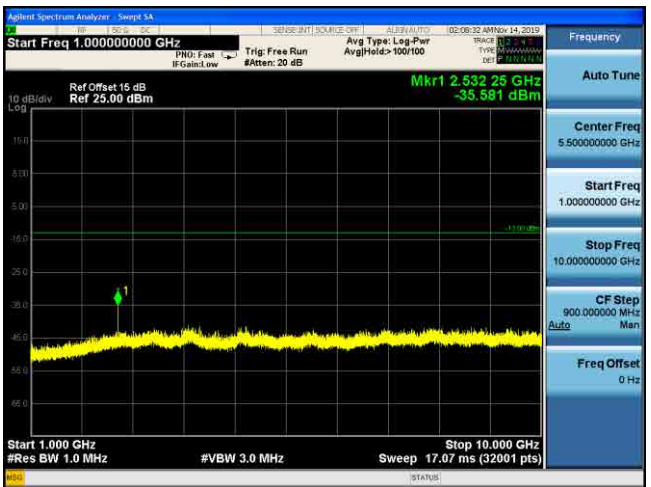
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LTE Band 5 16QAM 10MHz CH20600 1RB#25_30MHz-1GHz

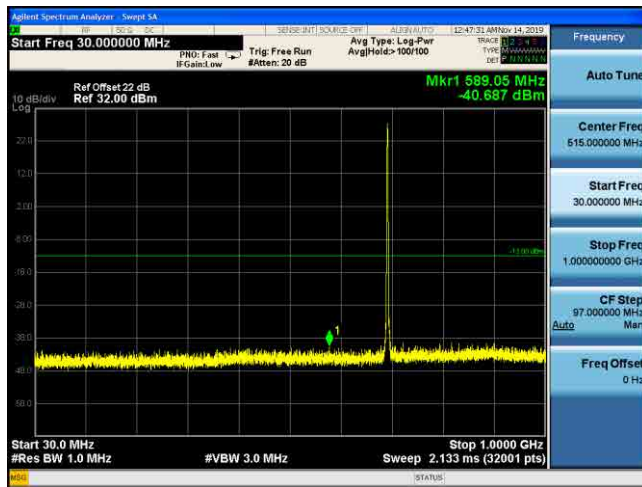


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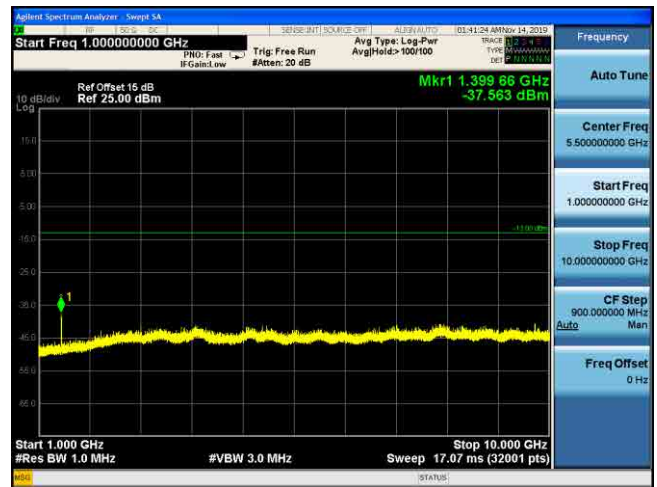


Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 12 (Low Channel)	QPSK	CH23017 / 699.7MHz	1.4	1	2	Pass
		CH23025 / 700.5MHz	3	1	7	Pass
		CH23035 / 701.5MHz	5	1	12	Pass
		CH23060 / 704MHz	10	1	25	Pass
	16QAM	CH23017 / 699.7MHz	1.4	1	2	Pass
		CH23025 / 700.5MHz	3	1	7	Pass
		CH23035 / 701.5MHz	5	1	12	Pass
		CH23060 / 704MHz	10	1	25	Pass
LTE Band 12 (Middle Channel)	QPSK	CH23095 / 707.5MHz	1.4	1	2	Pass
			3	1	7	Pass
			5	1	12	Pass
			10	1	25	Pass
	16QAM		1.4	1	2	Pass
			3	1	7	Pass
			5	1	12	Pass
			10	1	25	Pass
LTE Band 12 (High Channel)	QPSK	CH23173 / 715.3MHz	1.4	1	2	Pass
		CH23165 / 714.5MHz	3	1	7	Pass
		CH23155 / 713.5MHz	5	1	12	Pass
		CH23130 / 711MHz	10	1	25	Pass
	16QAM	CH23173 / 715.3MHz	1.4	1	2	Pass
		CH23165 / 714.5MHz	3	1	7	Pass
		CH23155 / 713.5MHz	5	1	12	Pass
		CH23130 / 711MHz	10	1	25	Pass

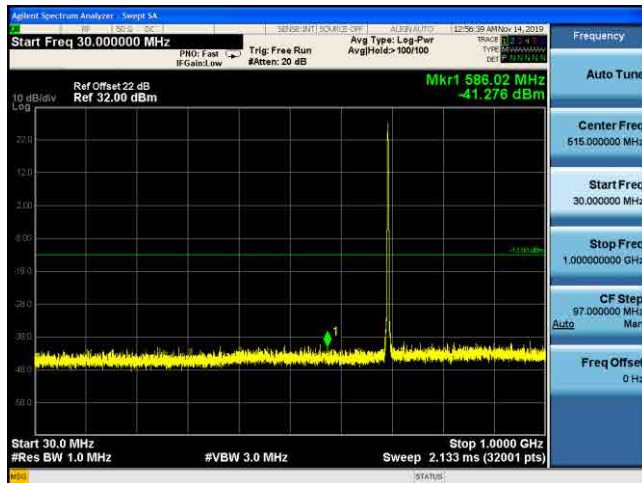
LTE Band 12 QPSK 1.4MHz CH23017 1RB#2_30MHz-1GHz



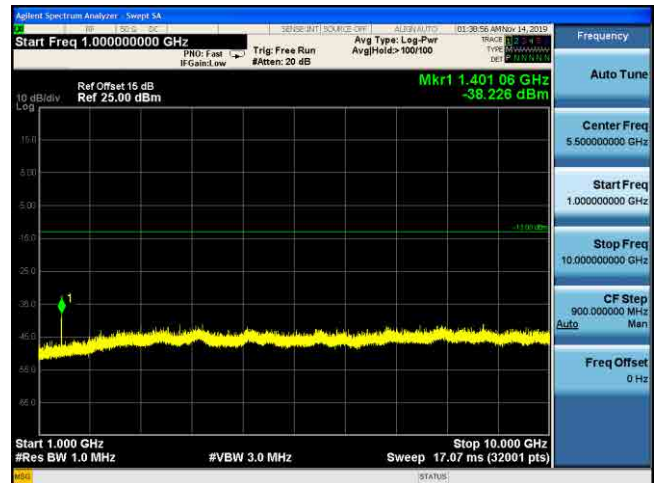
LTE Band 12 QPSK 1.4MHz CH23017 1RB#2_1GHz-10GHz



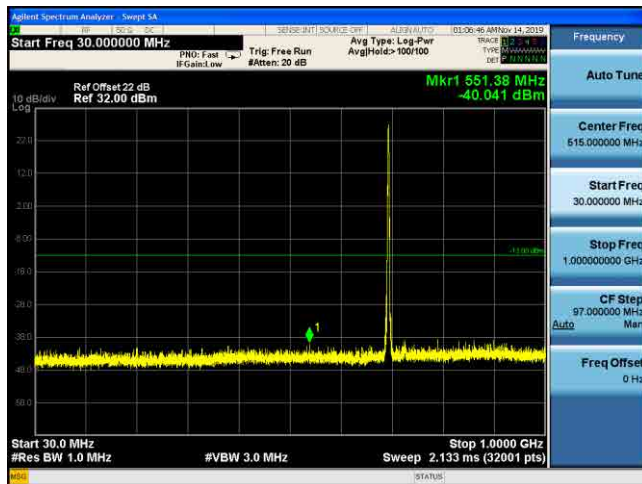
LTE Band 12 QPSK 3MHz CH23025 1RB#7_30MHz-1GHz



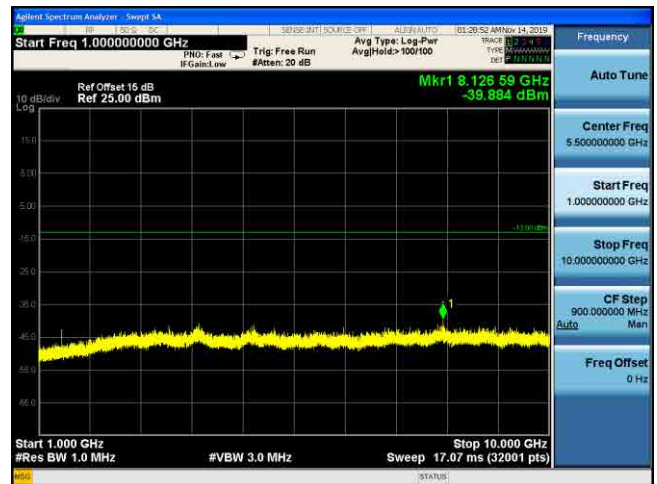
LTE Band 12 QPSK 3MHz CH23025 1RB#7_1GHz-10GHz



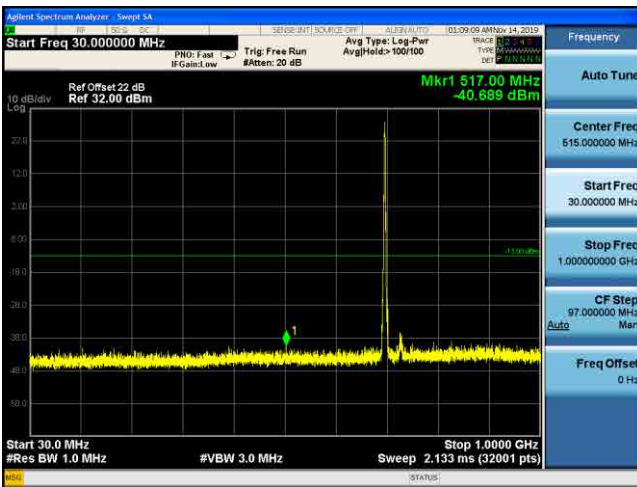
LTE Band 12 QPSK 5MHz CH23035 1RB#12_30MHz-1GHz



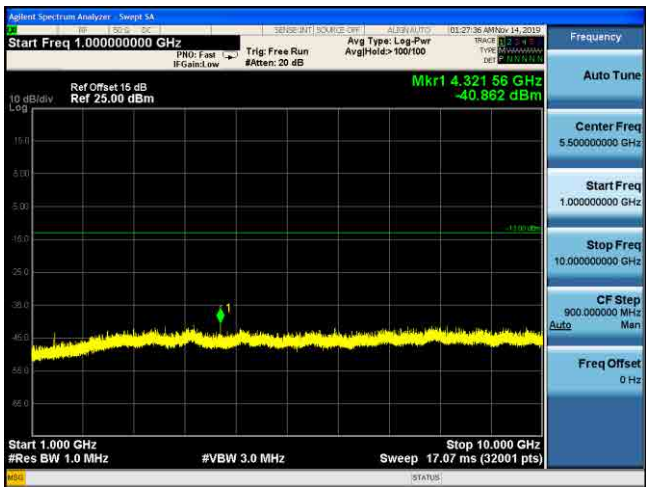
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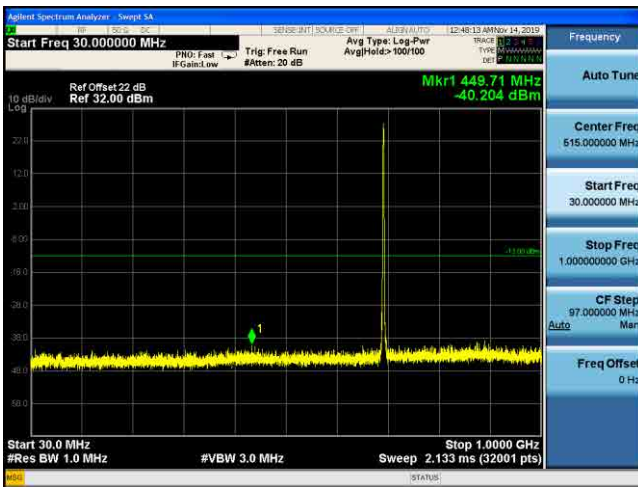
LTE Band 12 QPSK 10MHz CH23060 1RB#25_30MHz-1GHz



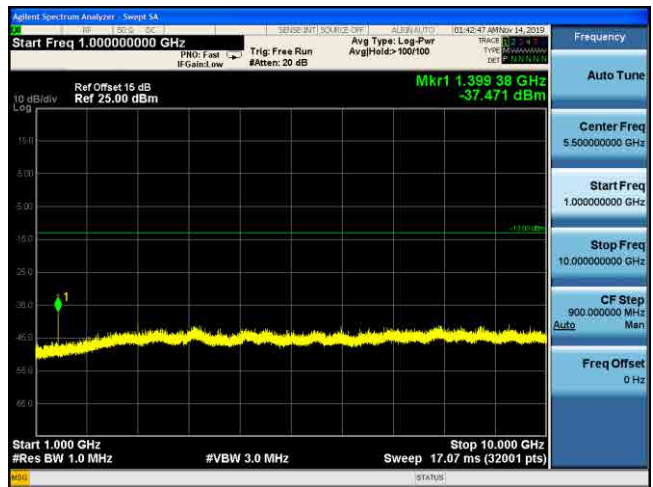
LTE Band 12 QPSK 10MHz CH23060 1RB#25_1GHz-10GHz



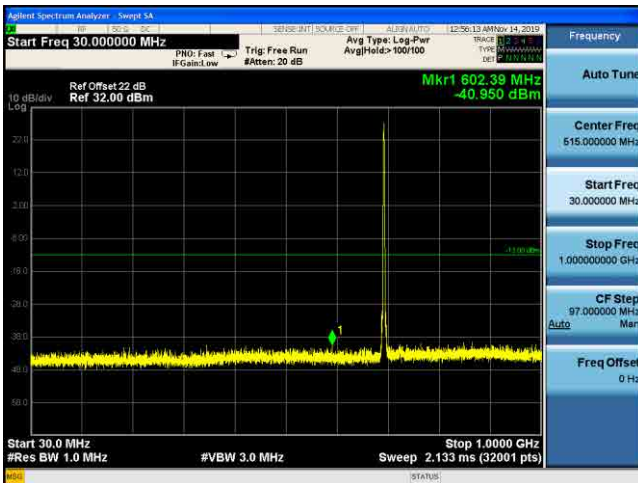
LTE Band 12 16QAM 1.4MHz CH23017 1RB#2_30MHz-1GHz



LTE Band 12 16QAM 1.4MHz CH23017 1RB#2_1GHz-10GHz



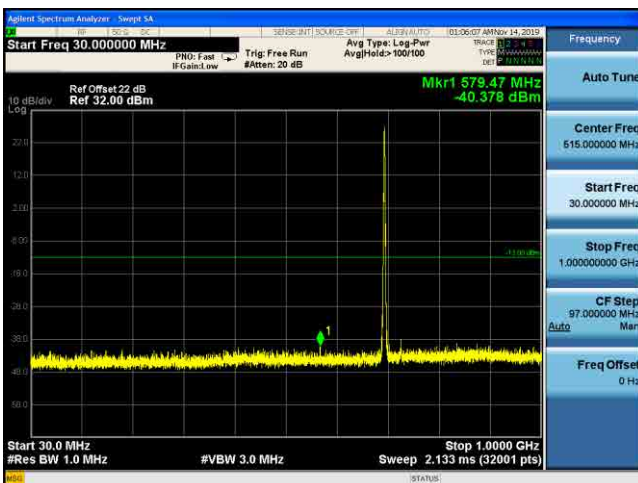
LTE Band 12 16QAM 3MHz CH23025 1RB#7_30MHz-1GHz



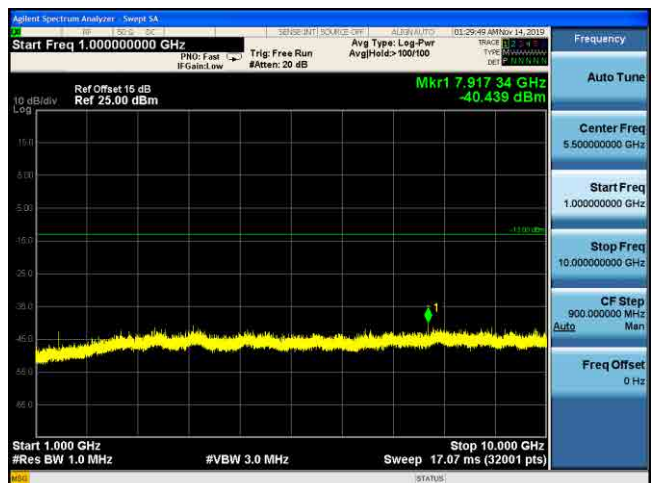
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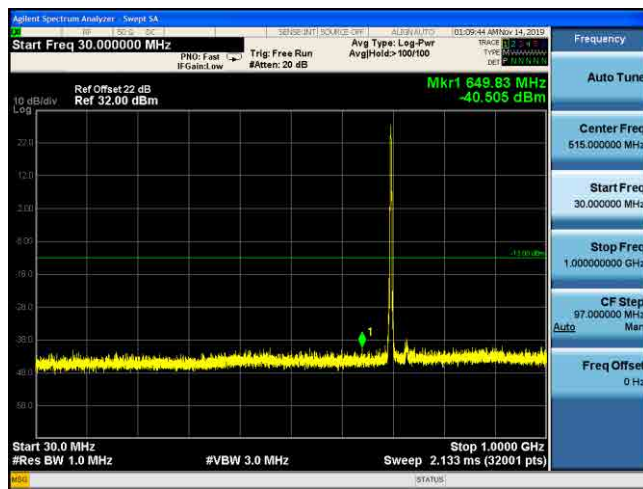
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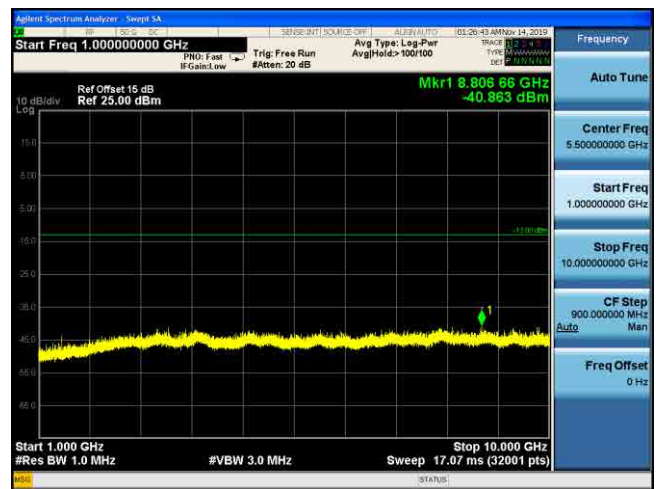
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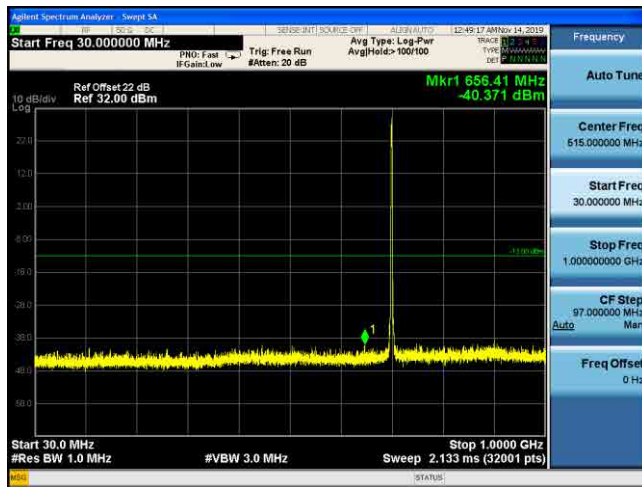
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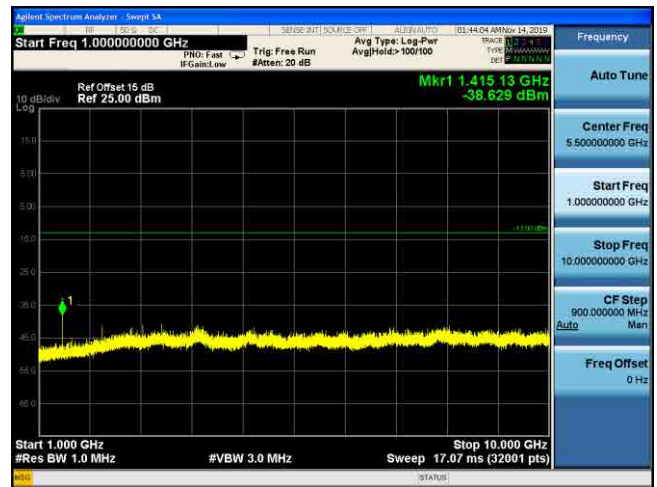
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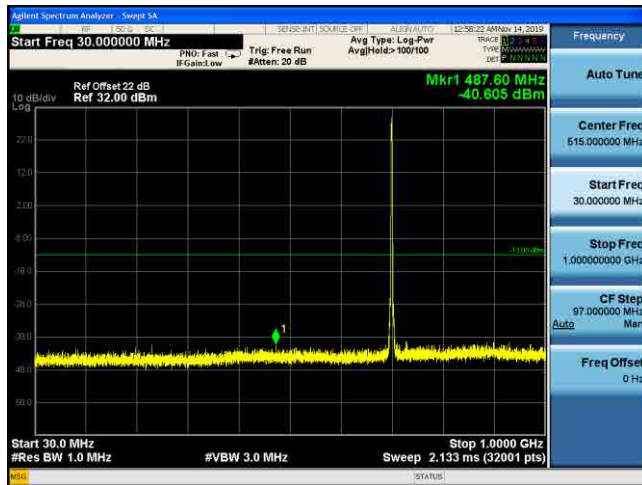
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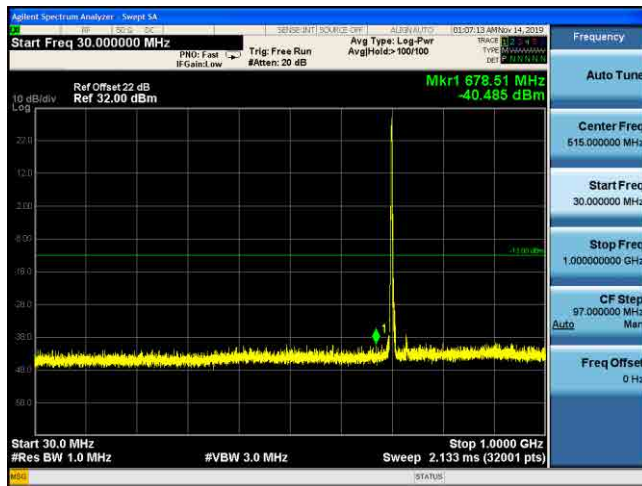
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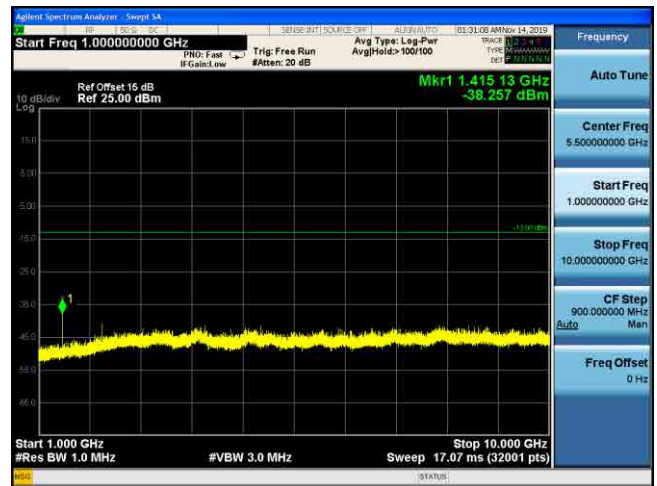
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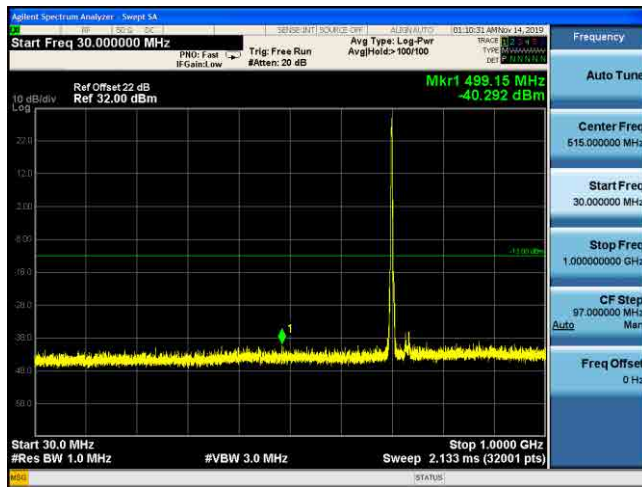
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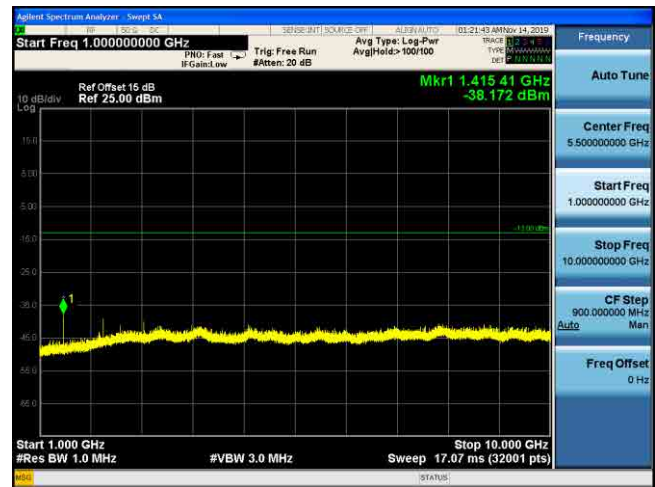
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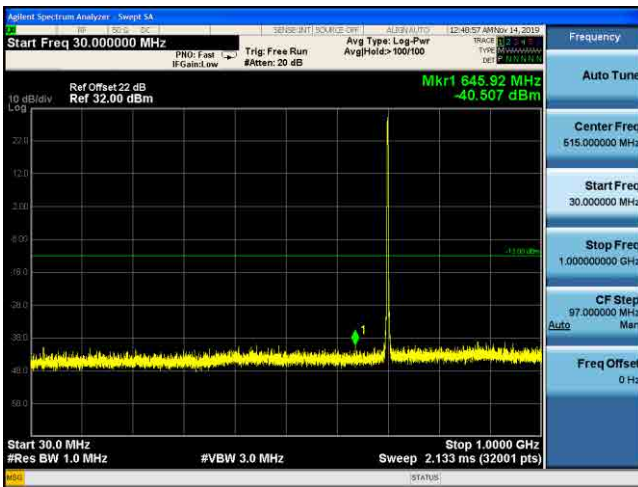
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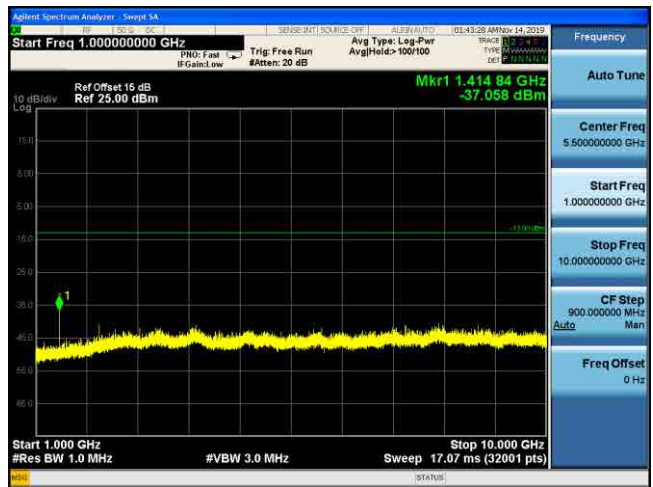
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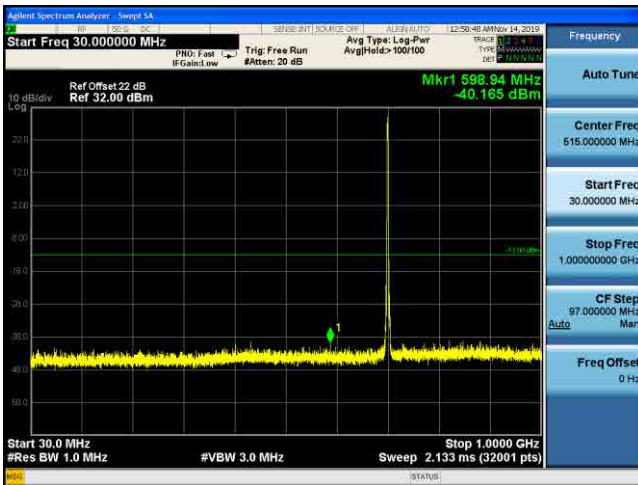
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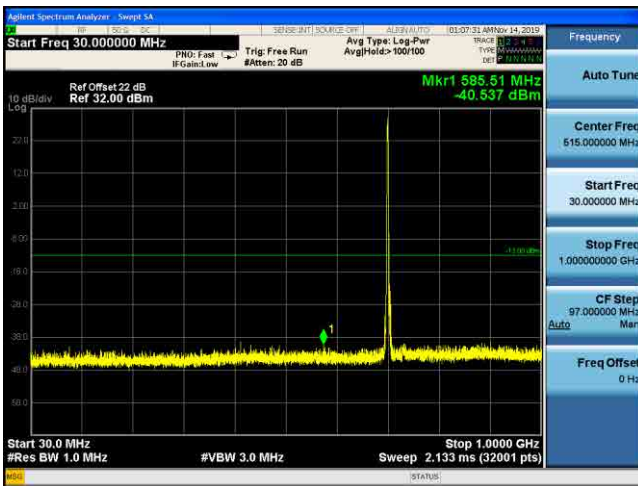
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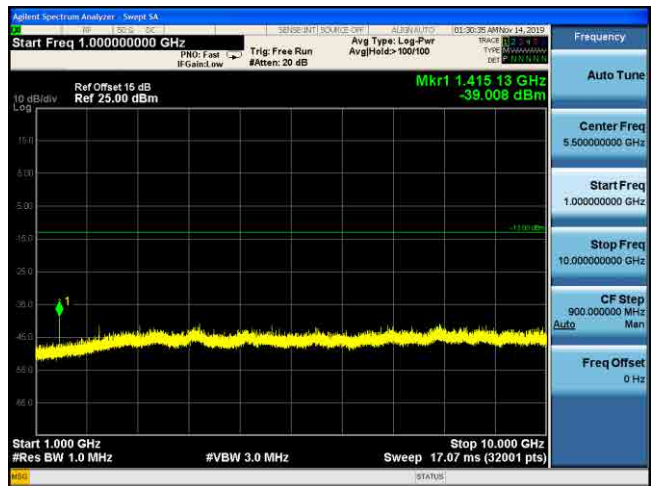
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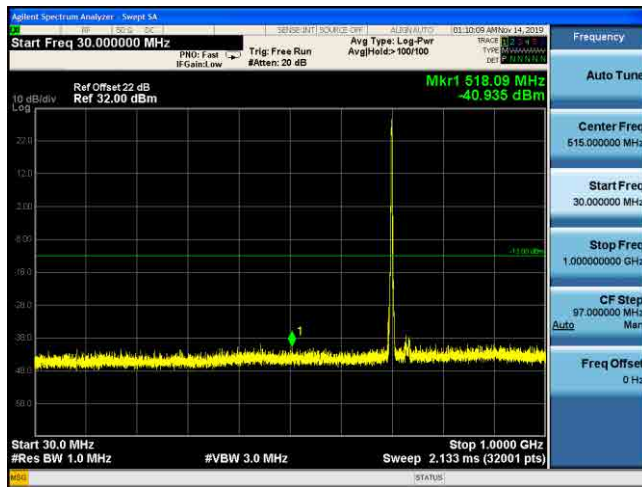
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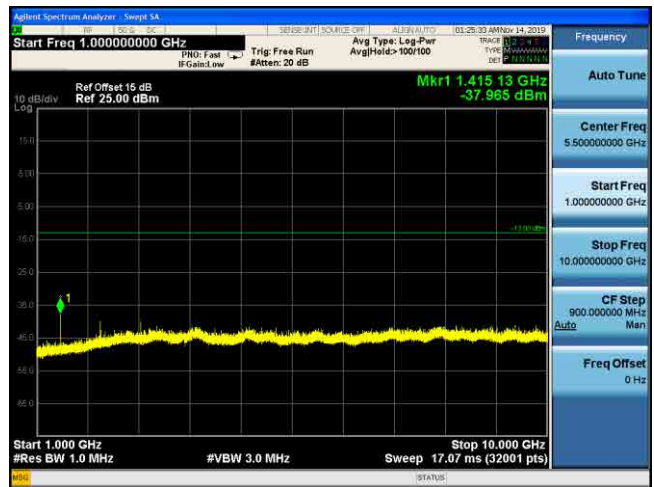
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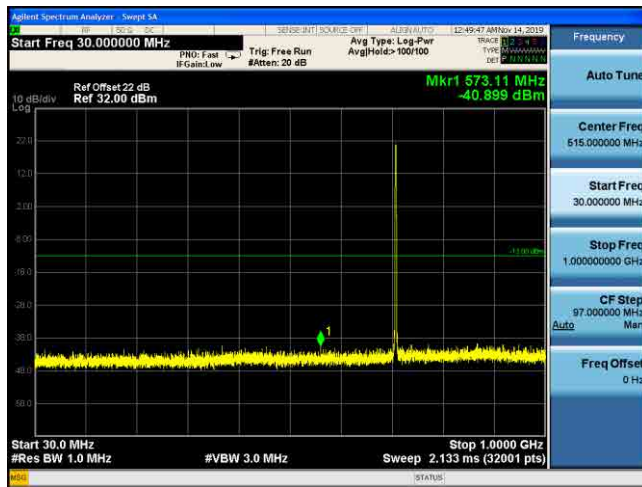
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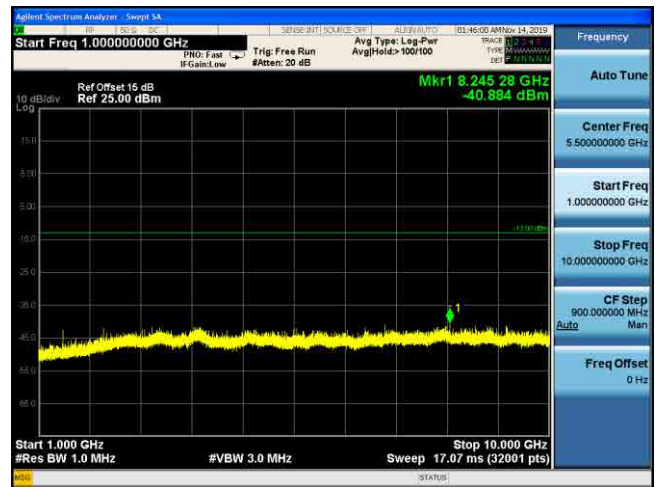
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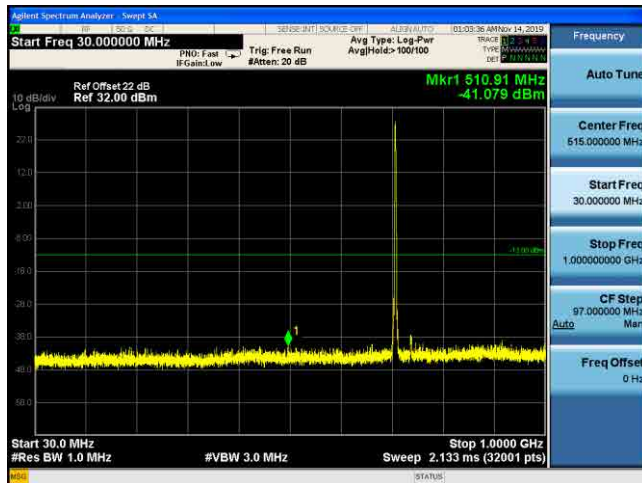
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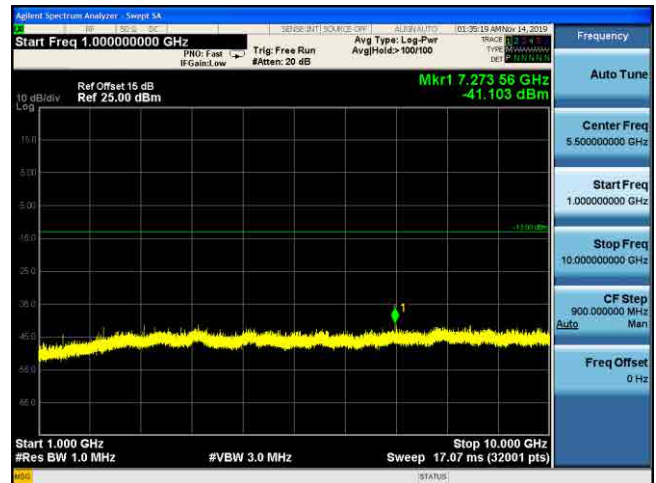
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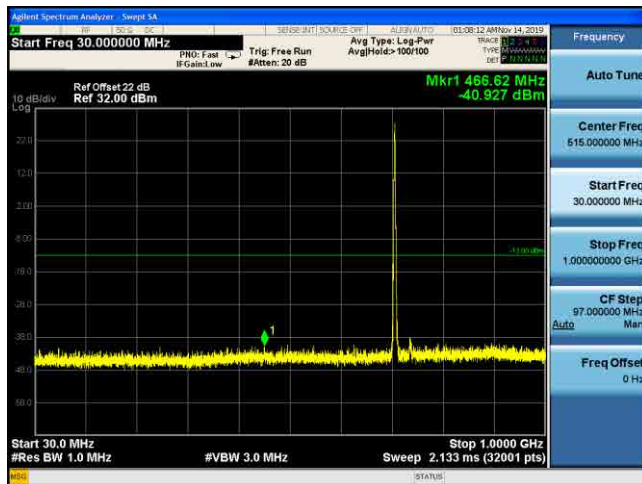
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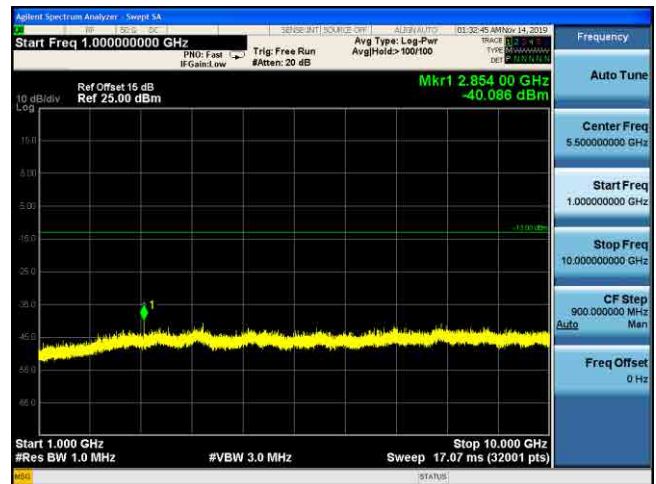
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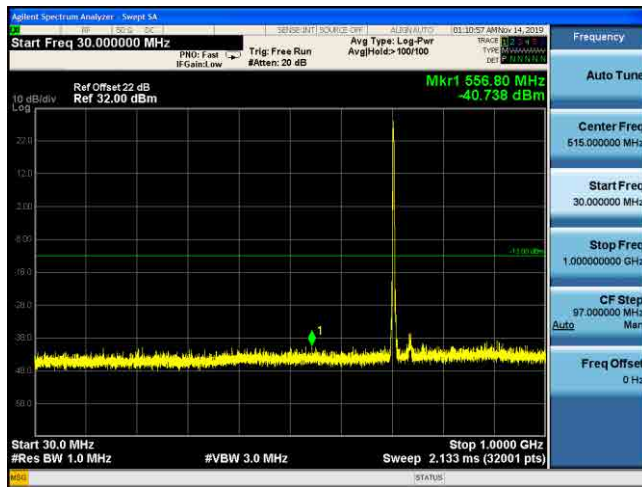
LTE Band 12 QPSK 5MHz CH23155 1RB#12_30MHz-1GHz



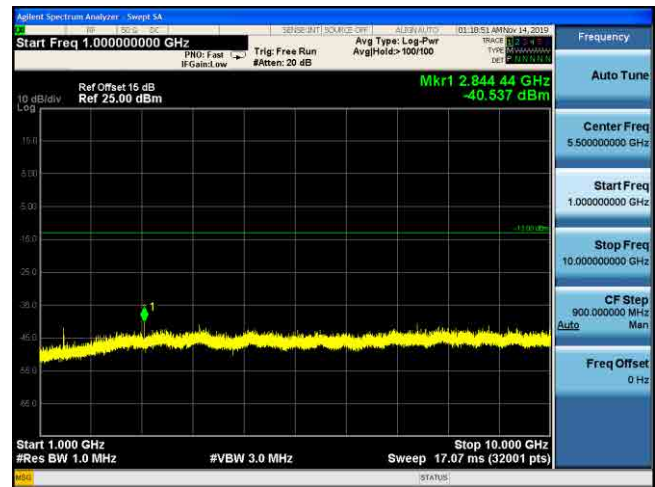
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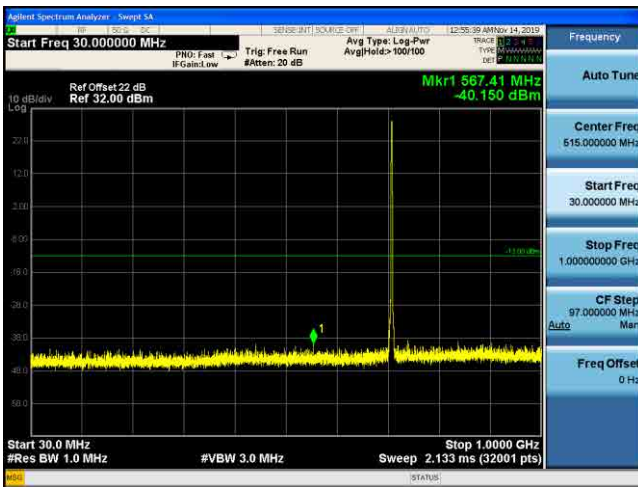
LTE Band 12 QPSK 10MHz CH23130 1RB#25_30MHz-1GHz



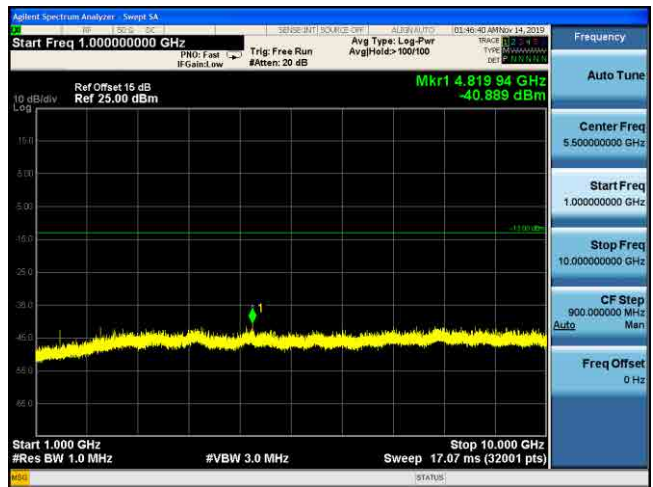
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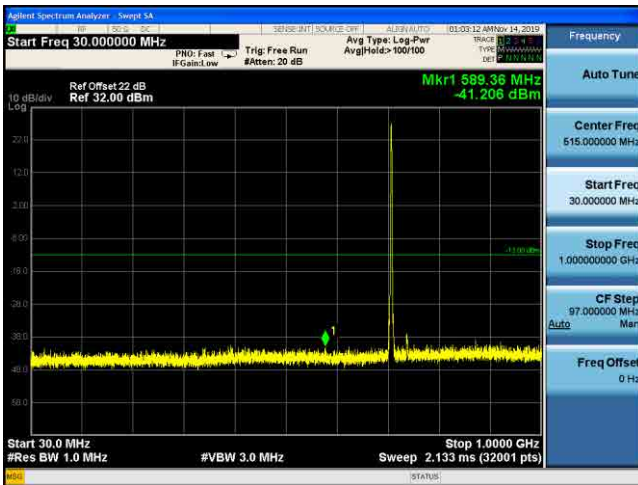
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LTE Band 12 16QAM 1.4MHz CH23173 1RB#2_1GHz-10GHz



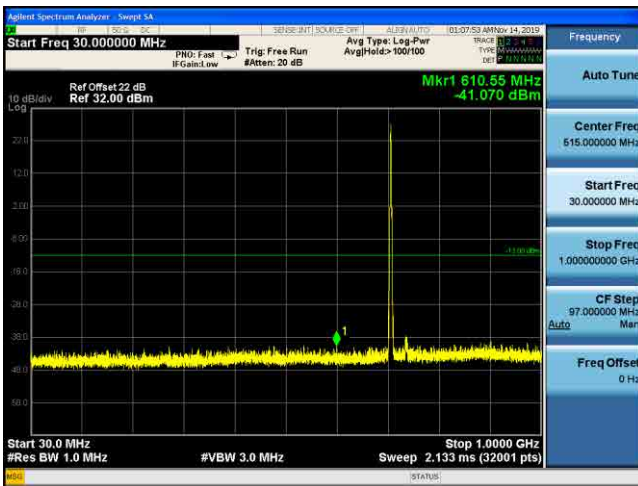
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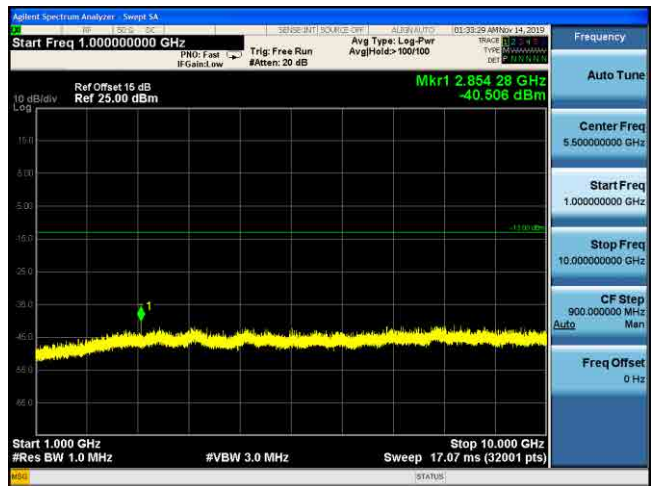
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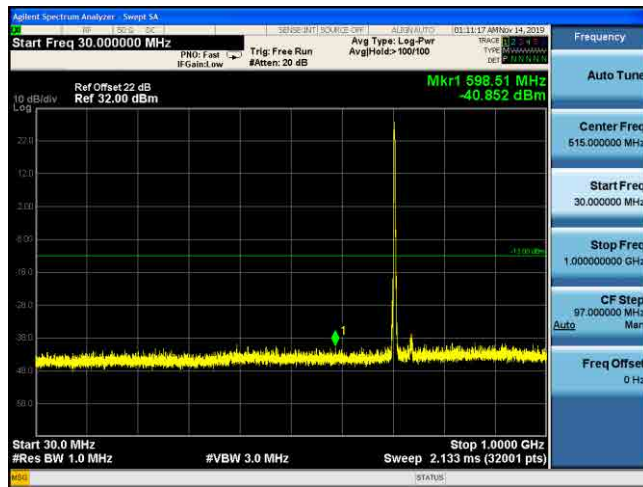
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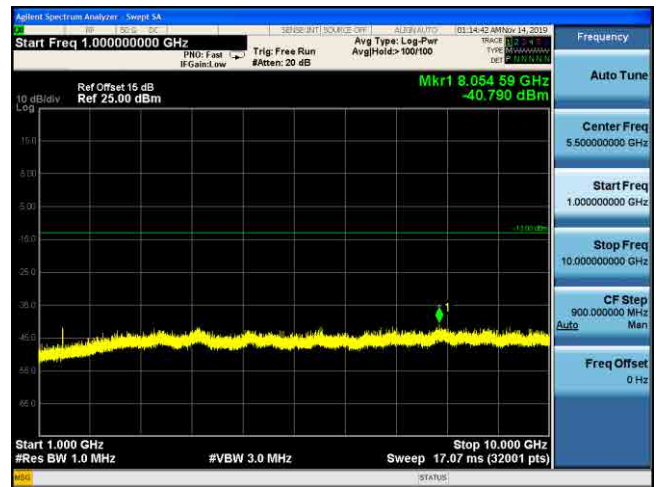
LTE Band 12 16QAM 5MHz CH23155 1RB#12_1GHz-10GHz



LTE Band 12 16QAM 10MHz CH23130 1RB#25_30MHz-1GHz



LTE Band 12 16QAM 10MHz CH23130 1RB#25_1GHz-10GHz



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 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 for Band7.

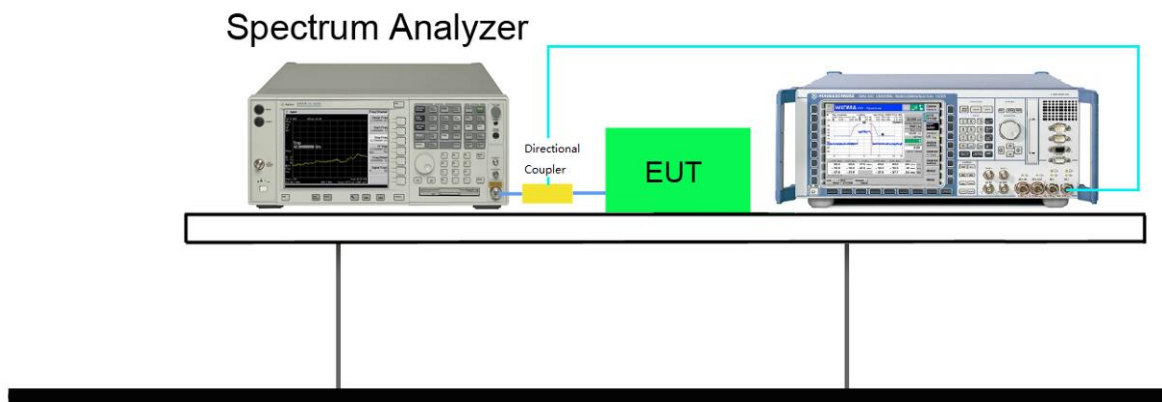
7.4.2. Test Procedure Used

KDB 971168 D01v03r01 – Section 6.0 & ANSI/TIA-603-E-2016

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

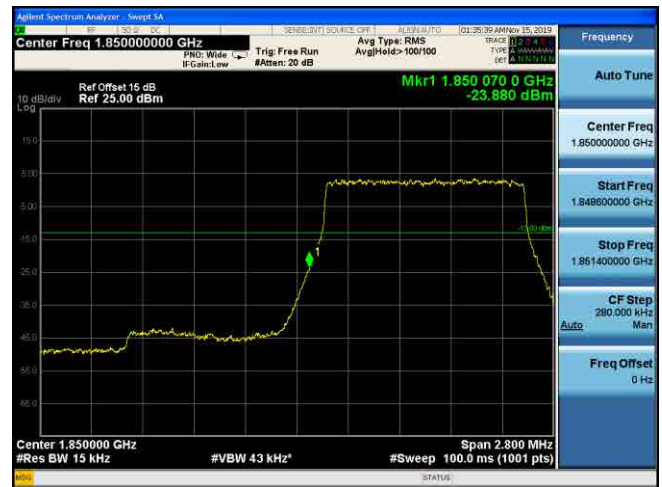
Test Mode	Modulation	Channel / Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 2 (Low Channel)	QPSK	CH18607 / 1850.7MHz	1.4	1	0	Pass
				6	0	Pass
		CH18615 / 1851.5MHz	3	1	0	Pass
				15	0	Pass
		CH18625 / 1852.5MHz	5	1	0	Pass
				25	0	Pass
		CH18650 / 1855MHz	10	1	0	Pass
				50	0	Pass
		CH18675 / 1857.5MHz	15	1	0	Pass
				75	0	Pass
		CH18700 / 1860MHz	20	1	0	Pass
				100	0	Pass
	16QAM	CH18607 / 1850.7MHz	1.4	1	0	Pass
				6	0	Pass
		CH18615 / 1851.5MHz	3	1	0	Pass
				15	0	Pass
		CH18625 / 1852.5MHz	5	1	0	Pass
				25	0	Pass
		CH18650 / 1855MHz	10	1	0	Pass
				50	0	Pass
		CH18675 / 1857.5MHz	15	1	0	Pass
				75	0	Pass
		CH18700 / 1860MHz	20	1	0	Pass
				100	0	Pass

Test Mode	Modulation	Channel / Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 2 (High Channel)	QPSK	CH19193 / 1909.3MHz	1.4	1	5	Pass
				6	0	Pass
		CH19185 / 1908.5MHz	3	1	14	Pass
				15	0	Pass
		CH19175 / 1907.5MHz	5	1	24	Pass
				25	0	Pass
		CH19150 / 1905MHz	10	1	49	Pass
				50	0	Pass
		CH19125 / 1902.5MHz	15	1	74	Pass
				75	0	Pass
		CH19100 / 1900MHz	20	1	99	Pass
				100	0	Pass
	16QAM	CH19193 / 1909.3MHz	1.4	1	5	Pass
				6	0	Pass
		CH19185 / 1908.5MHz	3	1	14	Pass
				15	0	Pass
		CH19175 / 1907.5MHz	5	1	24	Pass
				25	0	Pass
		CH19150 / 1905MHz	10	1	49	Pass
				50	0	Pass
		CH19125 / 1902.5MHz	15	1	74	Pass
				75	0	Pass
		CH19100 / 1900MHz	20	1	99	Pass
				100	0	Pass

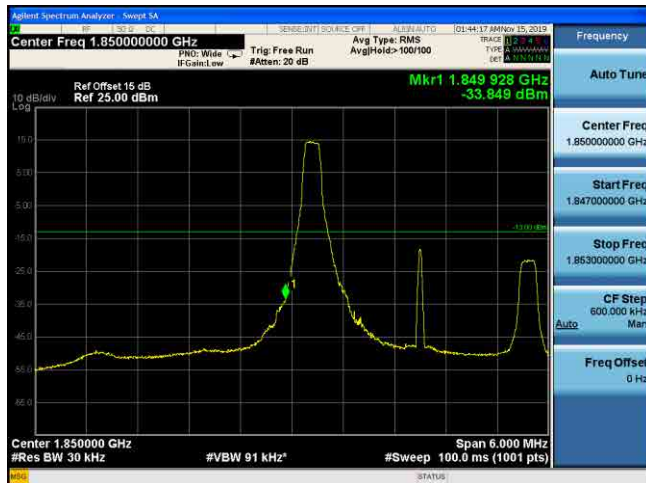
LTE Band 2 QPSK 1.4MHz CH18607 1RB#0



LTE Band 2 QPSK 1.4MHz CH18607 6RB#0



LTE Band 2 QPSK 3MHz CH18615 1RB#0



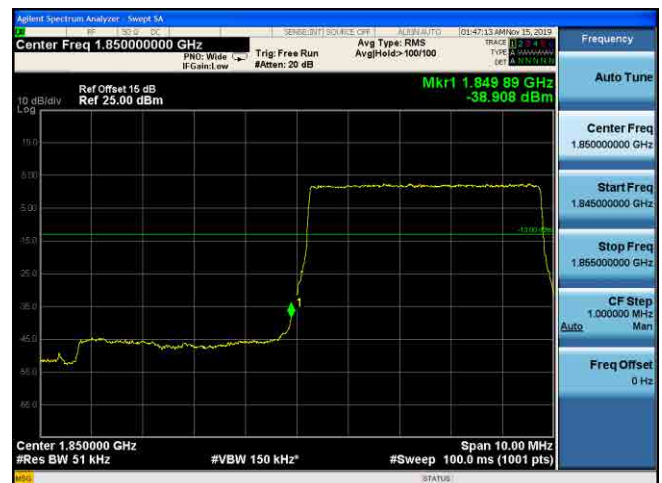
LTE Band 2 QPSK 3MHz CH18615 15RB#0



LTE Band 2 QPSK 5MHz CH18625 1RB#0



LTE Band 2 QPSK 5MHz CH18625 25RB#0



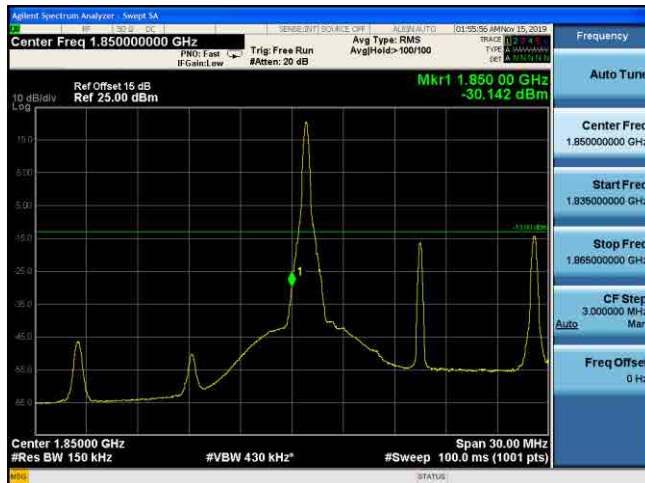
LTE Band 2 QPSK 10MHz CH18650 1RB#0



LTE Band 2 QPSK 10MHz CH18650 50RB#0



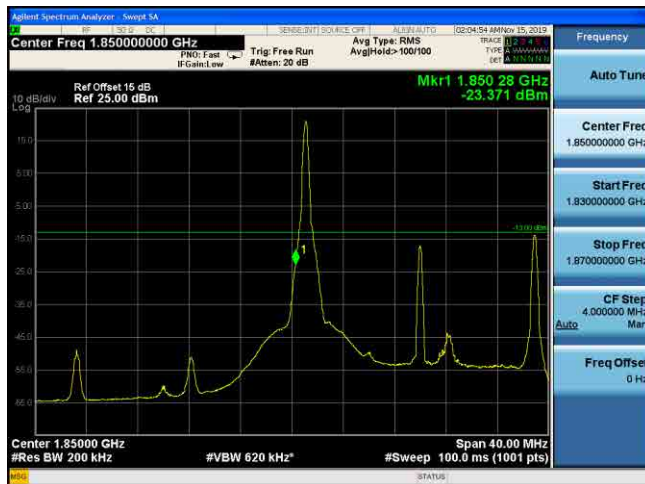
LTE Band 2 QPSK 15MHz CH18675 1RB#0



LTE Band 2 QPSK 15MHz CH18675 75RB#0



LTE Band 2 QPSK 20MHz CH18700 1RB#0



LTE Band 2 QPSK 20MHz CH18700 100RB#0



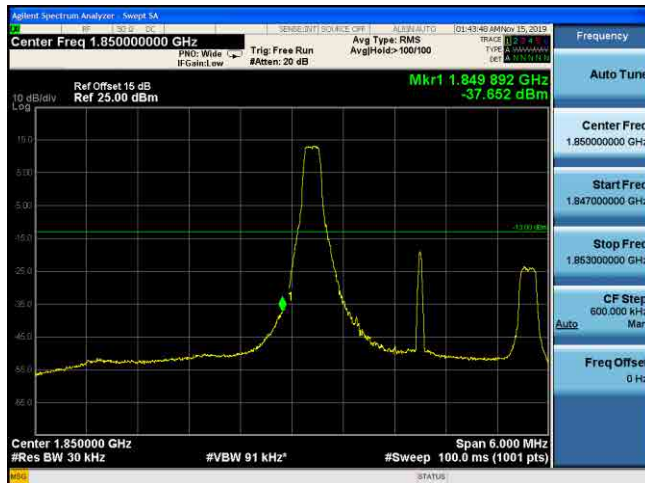
LTE Band 2 16QAM 1.4MHz CH18607 1RB#0



LTE Band 2 16QAM 1.4MHz CH18607 6RB#0



LTE Band 2 16QAM 3MHz CH18615 1RB#0



LTE Band 2 16QAM 3MHz CH18615 15RB#0



LTE Band 2 16QAM 5MHz CH18625 1RB#0



LTE Band 2 16QAM 5MHz CH18625 25RB#0



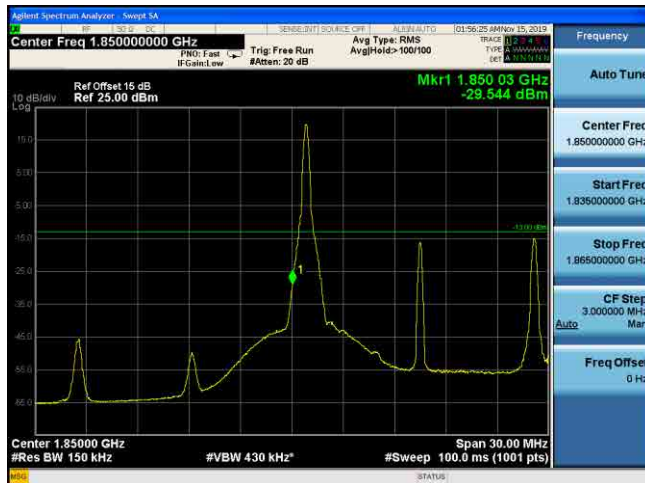
LTE Band 2 16QAM 10MHz CH18650 1RB#0



LTE Band 2 16QAM 10MHz CH18650 50RB#0



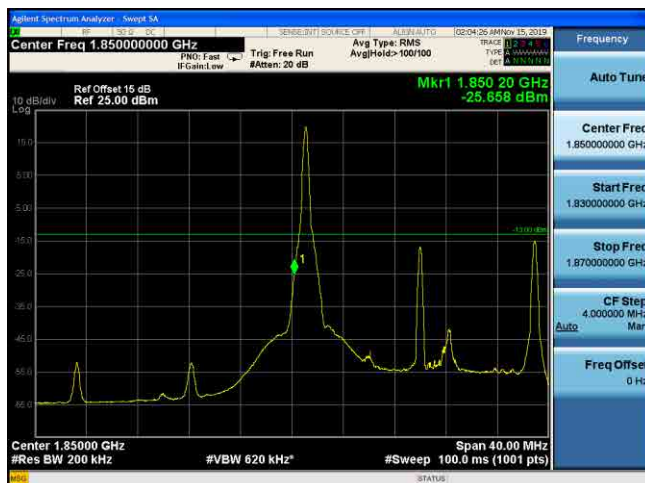
LTE Band 2 16QAM 15MHz CH18675 1RB#0



LTE Band 2 16QAM 15MHz CH18675 75RB#0



LTE Band 2 16QAM 20MHz CH18700 1RB#0



LTE Band 2 16QAM 20MHz CH18700 100RB#0



LTE Band 2 QPSK 1.4MHz CH19193 1RB#5



LTE Band 2 QPSK 1.4MHz CH19193 6RB#0



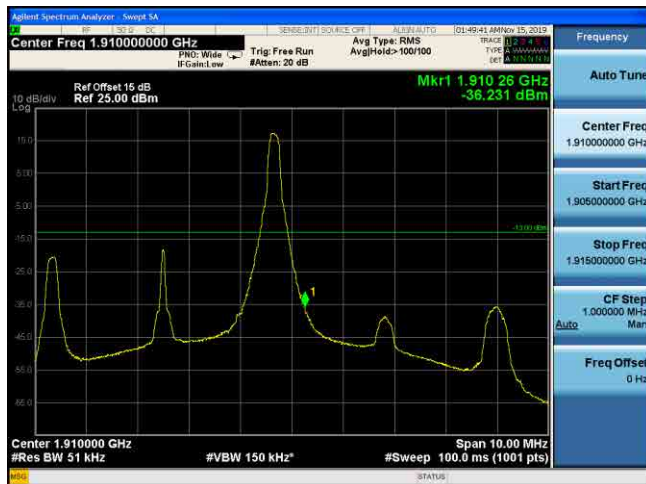
LTE Band 2 QPSK 3MHz CH19185 1RB#14



LTE Band 2 QPSK 3MHz CH19185 15RB#0



LTE Band 2 QPSK 5MHz CH19175 1RB#24



LTE Band 2 QPSK 5MHz CH19175 25RB#0



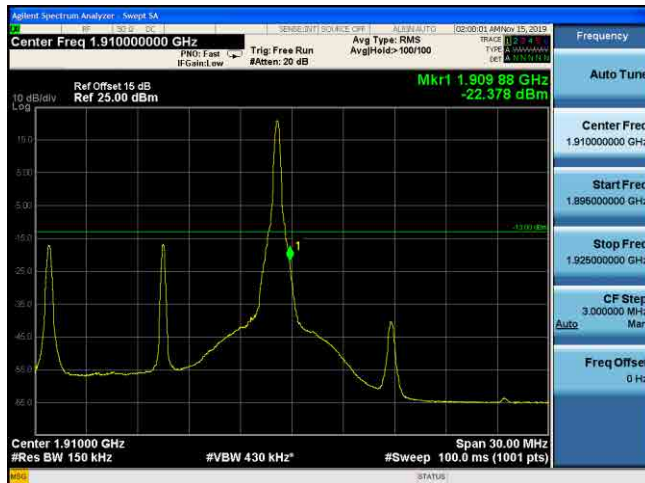
LTE Band 2 QPSK 10MHz CH19150 1RB#49



LTE Band 2 QPSK 10MHz CH19150 50RB#0



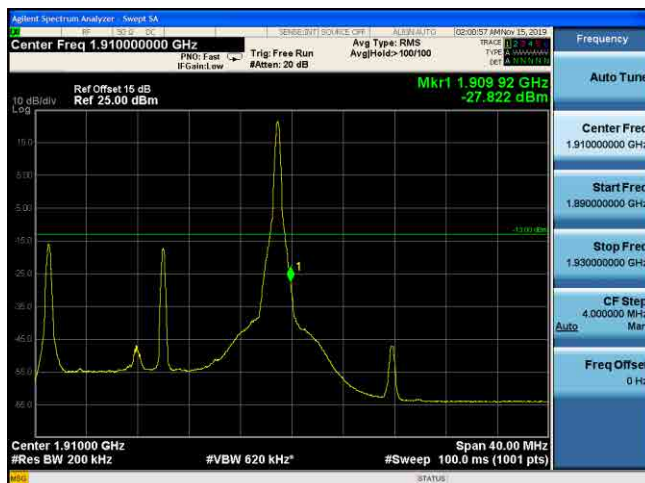
LTE Band 2 QPSK 15MHz CH19125 1RB#74



LTE Band 2 QPSK 15MHz CH19125 75RB#0



LTE Band 2 QPSK 20MHz CH19100 1RB#99



LTE Band 2 QPSK 20MHz CH19100 100RB#0



LTE Band 2 16QAM 1.4MHz CH19193 1RB#5



LTE Band 2 16QAM 1.4MHz CH19193 6RB#0



LTE Band 2 16QAM 3MHz CH19185 1RB#14



LTE Band 2 16QAM 3MHz CH19185 15RB#0



LTE Band 2 16QAM 5MHz CH19175 1RB#24



LTE Band 2 16QAM 5MHz CH19175 25RB#0



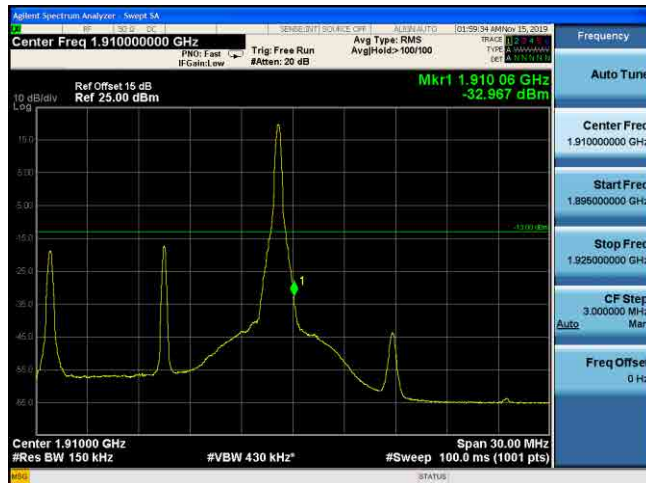
LTE Band 2 16QAM 10MHz CH19150 1RB#49



LTE Band 2 16QAM 10MHz CH19150 50RB#0



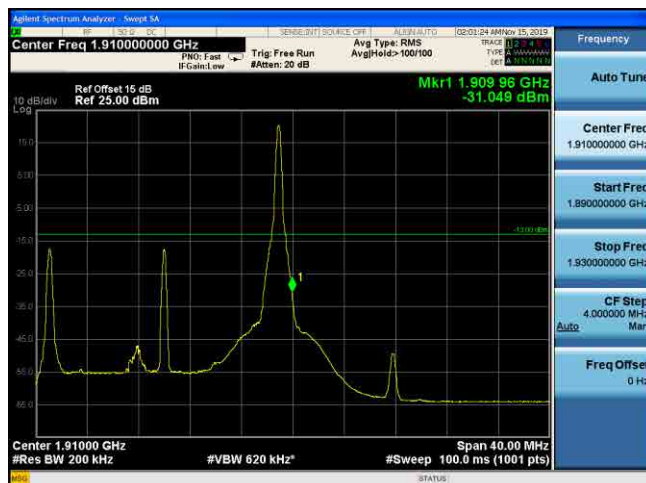
LTE Band 2 16QAM 15MHz CH19125 1RB#74



LTE Band 2 16QAM 15MHz CH19125 75RB#0



LTE Band 2 16QAM 20MHz CH19100 1RB#99



LTE Band 2 16QAM 20MHz CH19100 100RB#0



Test Mode	Modulation	Channel / Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 4 (Low Channel)	QPSK	CH19957 / 1710.7MHz	1.4	1	0	Pass
				6	0	Pass
		CH19965 / 1711.5MHz	3	1	0	Pass
				15	0	Pass
		CH19975 / 1712.5MHz	5	1	0	Pass
				25	0	Pass
		CH20000 / 1715MHz	10	1	0	Pass
				50	0	Pass
		CH20025 / 1717.5MHz	15	1	0	Pass
				75	0	Pass
		CH20050 / 1720MHz	20	1	0	Pass
				100	0	Pass
	16QAM	CH19957 / 1710.7MHz	1.4	1	0	Pass
				6	0	Pass
		CH19965 / 1711.5MHz	3	1	0	Pass
				15	0	Pass
		CH19975 / 1712.5MHz	5	1	0	Pass
				25	0	Pass
		CH20000 / 1715MHz	10	1	0	Pass
				50	0	Pass
		CH20025 / 1717.5MHz	15	1	0	Pass
				75	0	Pass
		CH20050 / 1720MHz	20	1	0	Pass
				100	0	Pass

Test Mode	Modulation	Channel / Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 4 (High Channel)	QPSK	CH20393 / 1754.3MHz	1.4	1	5	Pass
				6	0	Pass
		CH20385 / 1753.5MHz	3	1	14	Pass
				15	0	Pass
		CH20375 / 1752.5MHz	5	1	24	Pass
				25	0	Pass
		CH20350 / 1750MHz	10	1	49	Pass
				50	0	Pass
		CH20325 / 1747.5MHz	15	1	74	Pass
				75	0	Pass
		CH20300 / 1745MHz	20	1	99	Pass
				100	0	Pass
	16QAM	CH20393 / 1754.3MHz	1.4	1	5	Pass
				6	0	Pass
		CH20385 / 1753.5MHz	3	1	14	Pass
				15	0	Pass
		CH20375 / 1752.5MHz	5	1	24	Pass
				25	0	Pass
		CH20350 / 1750MHz	10	1	49	Pass
				50	0	Pass
		CH20325 / 1747.5MHz	15	1	74	Pass
				75	0	Pass
		CH20300 / 1745MHz	20	1	99	Pass
				100	0	Pass