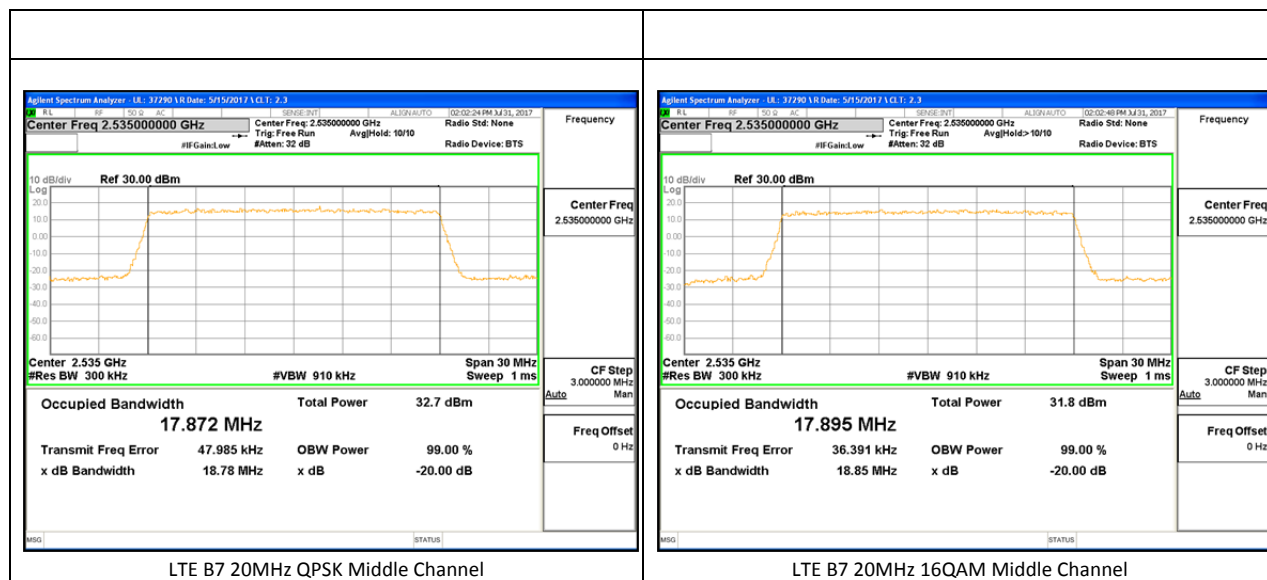


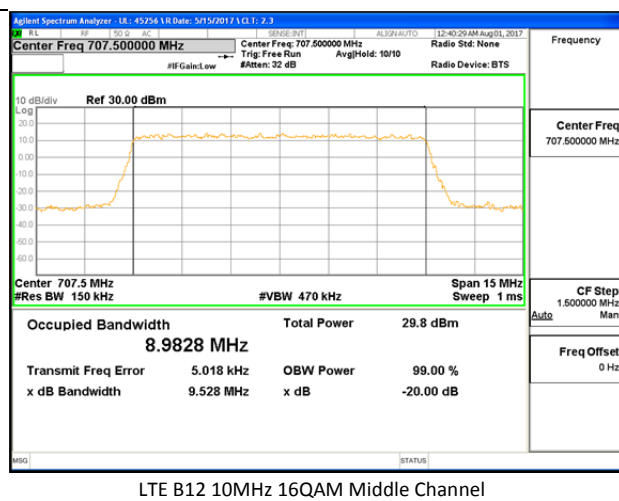
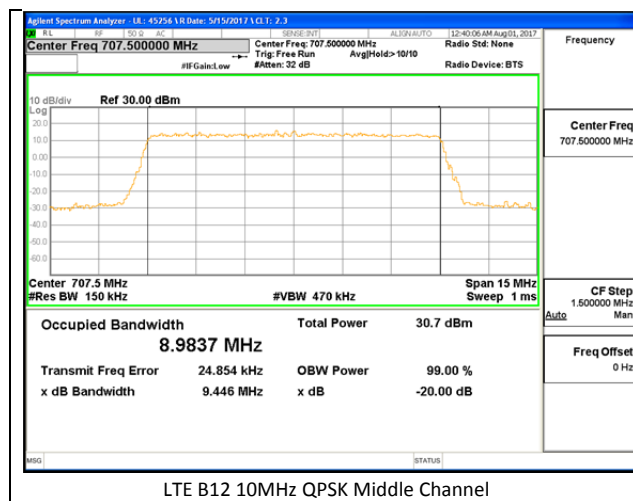




LTE Band 12

Band	BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE12	1.4	QPSK	6/0	699.7	1.0817	1.181
			6/0	707.5	1.0882	1.175
			6/0	715.3	1.0934	1.190
		16QAM	6/0	699.7	1.0843	1.180
			6/0	707.5	1.0939	1.196
			6/0	715.3	1.0830	1.186
	3	QPSK	15/0	700.5	2.6990	2.878
			15/0	707.5	2.6976	2.866
			15/0	714.5	2.6938	2.890
		16QAM	15/0	700.5	2.6944	2.884
			15/0	707.5	2.6940	2.882
			15/0	714.5	2.7026	2.898
	5	QPSK	25/0	701.5	4.4899	4.769
			25/0	707.5	4.4955	4.766
			25/0	713.5	4.5118	4.812
		16QAM	25/0	701.5	4.4868	4.797
			25/0	707.5	4.4837	4.763
			25/0	713.5	4.4985	4.801
	10	QPSK	50/0	704	8.9725	9.481
			50/0	707.5	8.9837	9.446
			50/0	711	8.9487	9.572
		16QAM	50/0	704	8.9590	9.513
			50/0	707.5	8.9828	9.528
			50/0	711	8.9750	9.544





LTE Band 13

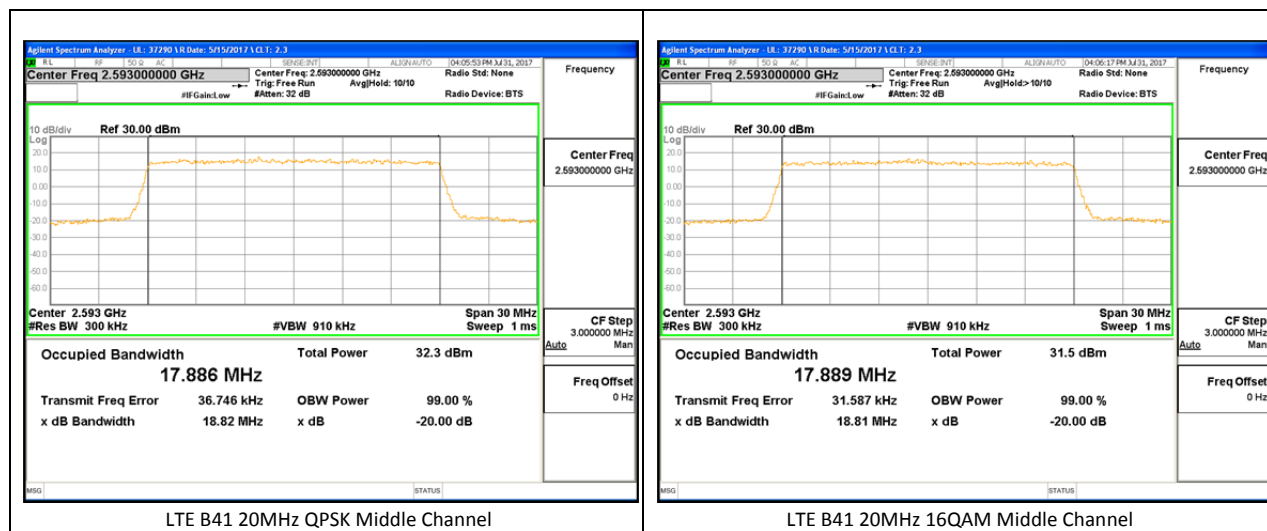
Band	BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE13	5	QPSK	25/0	779.5	4.4899	4.926
			25/0	782	4.4957	4.933
			25/0	784.5	4.5158	4.916
		16QAM	25/0	779.5	4.4850	4.923
			25/0	782	4.4812	4.897
			25/0	784.5	4.4932	4.970
	10	QPSK	50/0			
			50/0	782	8.9410	9.763
			50/0			
		16QAM	50/0			
			50/0	782	8.9488	9.758
			50/0			



LTE Band 41

Band	BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE41	5	QPSK	25/0	2498.5	4.5035	4.750
			25/0	2593	4.4934	4.768
			25/0	2687.5	4.5057	4.753
		16QAM	25/0	2498.5	4.4824	4.756
			25/0	2593	4.4918	4.782
			25/0	2687.5	4.4820	4.748
	10	QPSK	50/0	2501	8.9656	9.481
			50/0	2593	8.9771	9.506
			50/0	2685	8.9516	9.553
		16QAM	50/0	2501	8.9605	9.467
			50/0	2593	8.9926	9.537
			50/0	2685	8.9892	9.492
	15	QPSK	75/0	2503.5	13.444	14.14
			75/0	2593	13.422	14.13
			75/0	2682.5	13.435	14.13
		16QAM	75/0	2503.5	13.424	14.21
			75/0	2593	13.442	14.12
			75/0	2682.5	13.441	14.21
	20	QPSK	100/0	2506	17.882	18.81
			100/0	2593	17.886	18.82
			100/0	2680	17.855	18.85
		16QAM	100/0	2506	17.893	18.74
			100/0	2593	17.889	18.81
			100/0	2680	17.867	18.77





14. BAND EDGE EMISSIONS

RULE PART(S)

FCC: §22.359, §24.238, §27.53

FCC LIMITS

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.

Part 27: (m)(4) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

TEST PROCEDURE

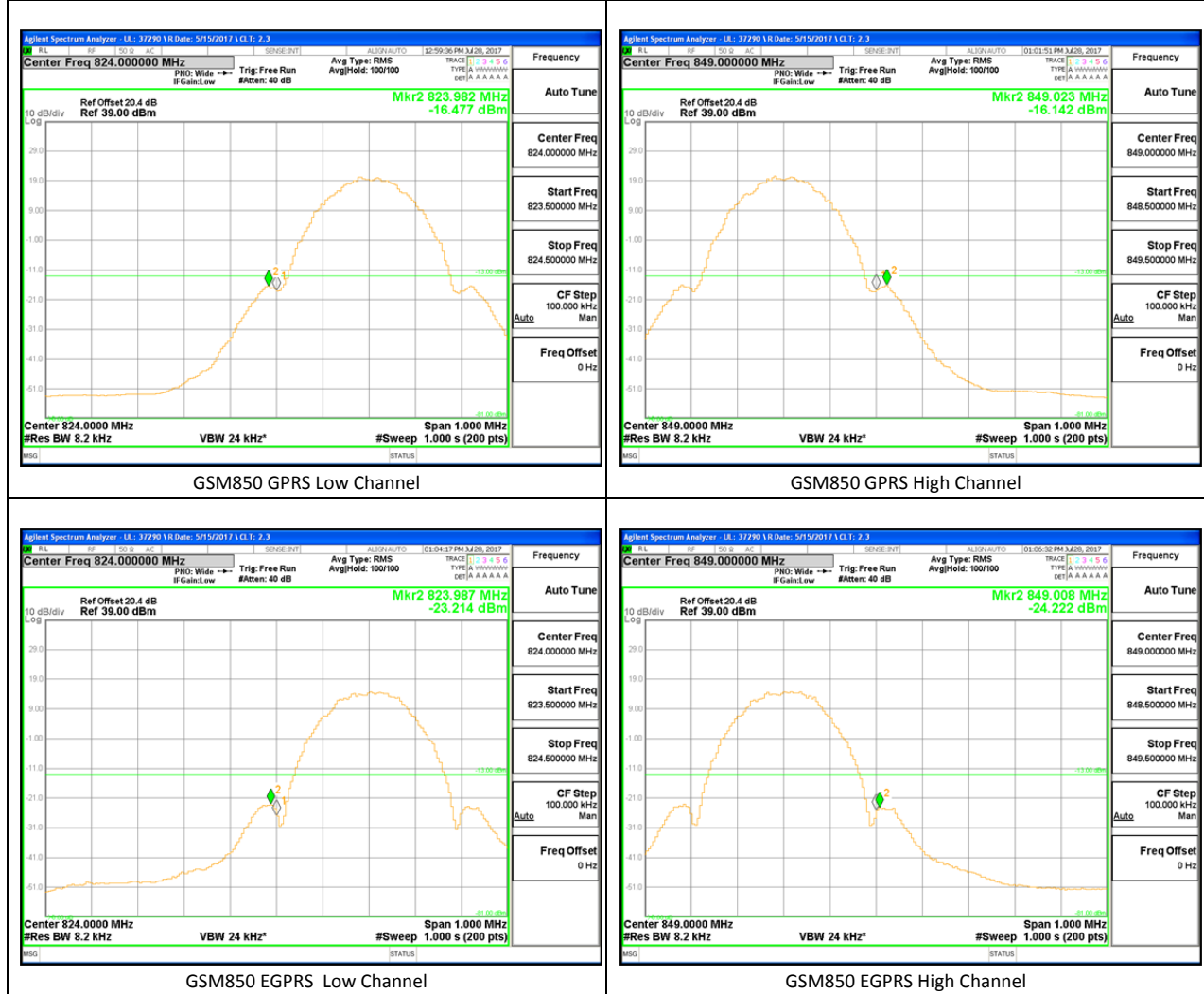
Per KDB 971168 D01 Power Meas License Digital Systems v02r02

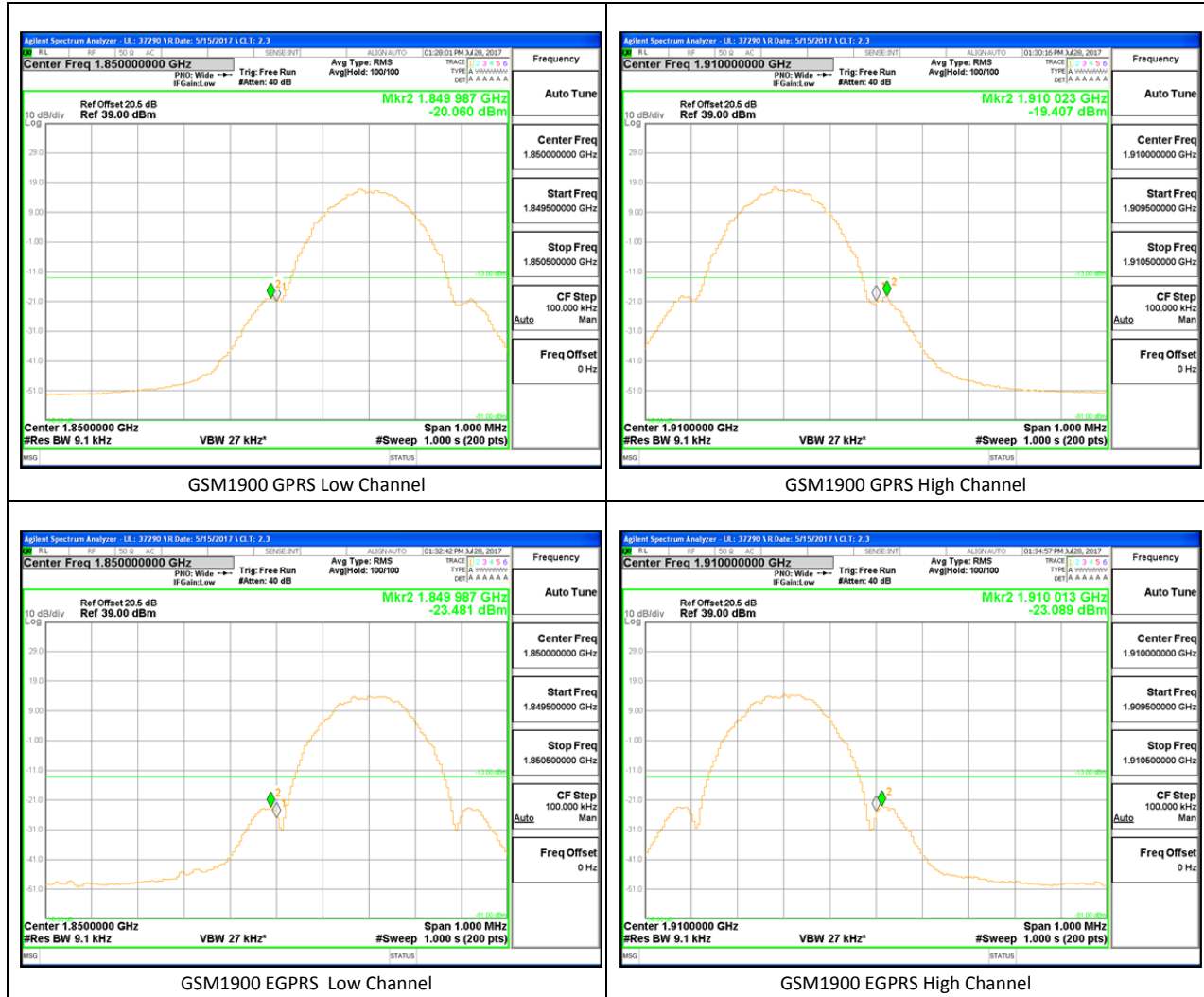
The transmitter output was connected to an Agilent 8960 or a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

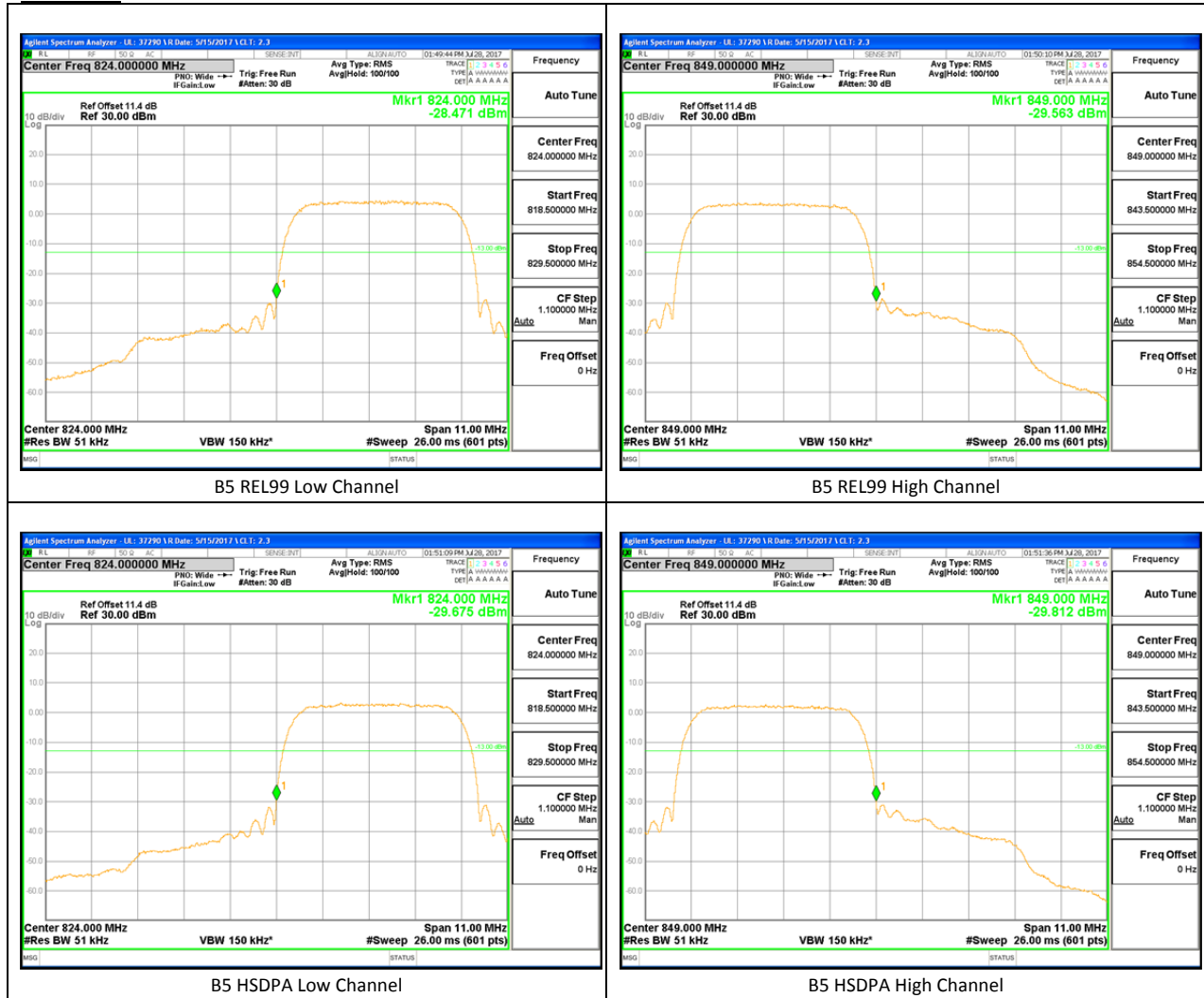
- Set the spectrum analyzer span to include the block edge frequency.
- Set a marker to point the corresponding band edge frequency in each test case.
- Set display line at -13 dBm
- Set resolution bandwidth to at least 1% of emission bandwidth.

14.1. BAND EDGE PLOTS GSM

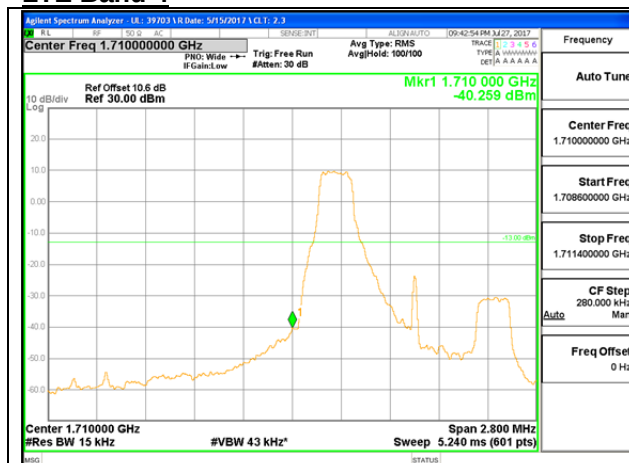




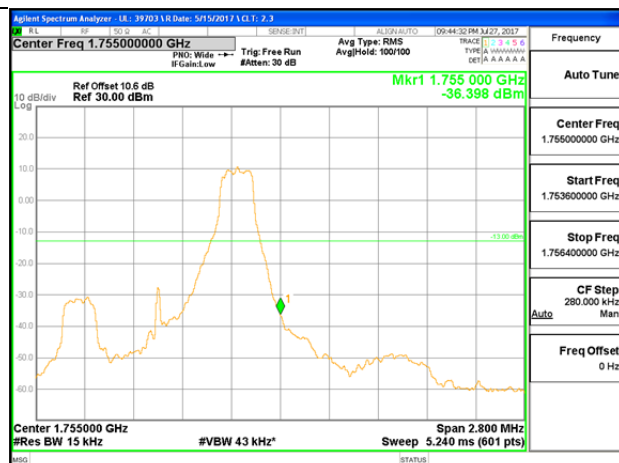
WCDMA



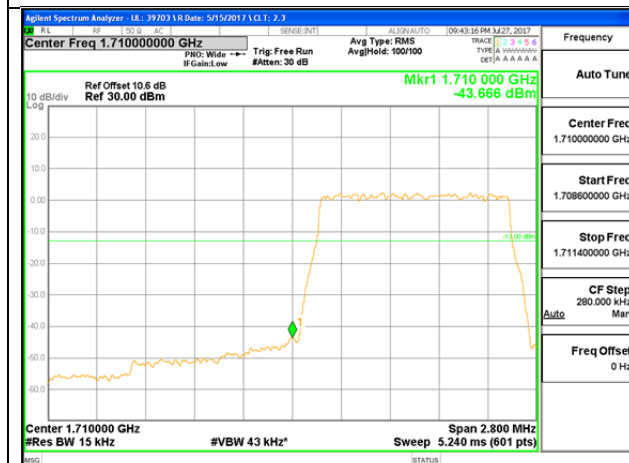
LTE Band 4



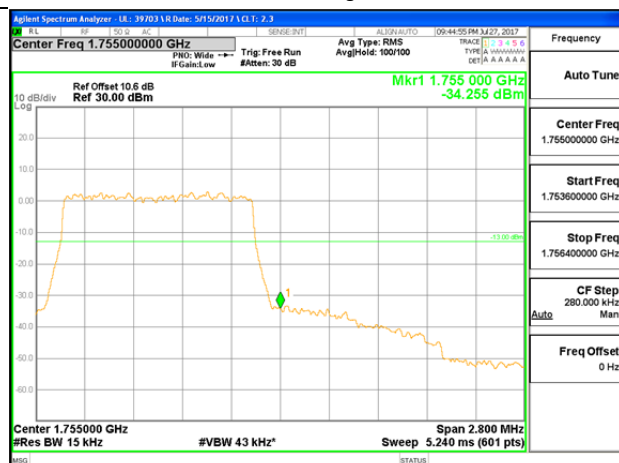
LTE B4 1.4MHz QPSK Low Channel 1RB



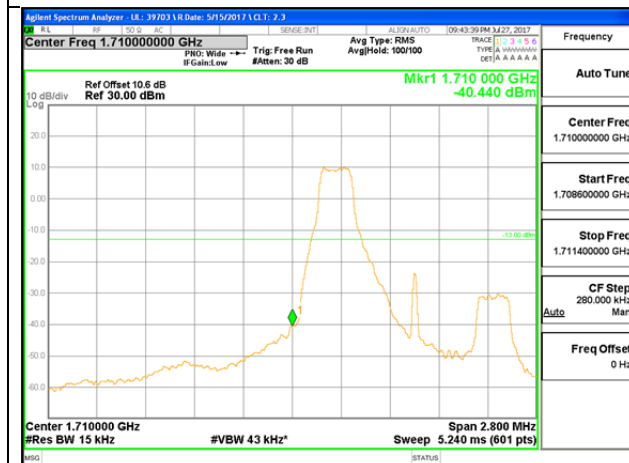
LTE B4 1.4MHz QPSK High Channel 1RB



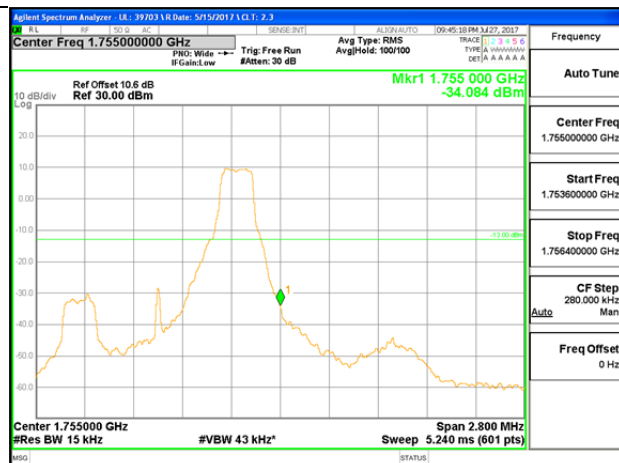
LTE B4 1.4MHz QPSK Low Channel FRB



LTE B4 1.4MHz QPSK High Channel FRB

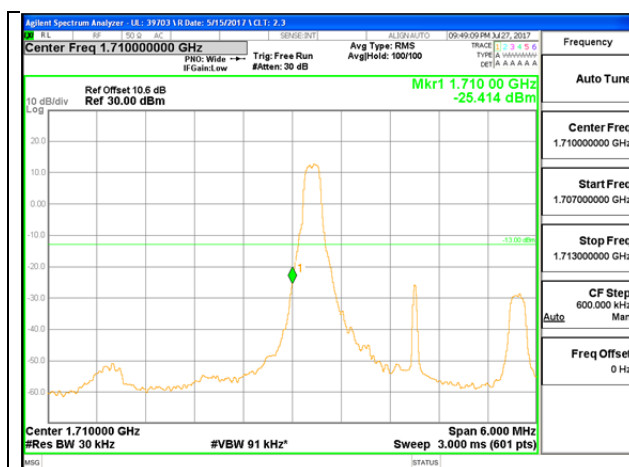


LTE B4 1.4MHz 16QAM Low Channel 1RB

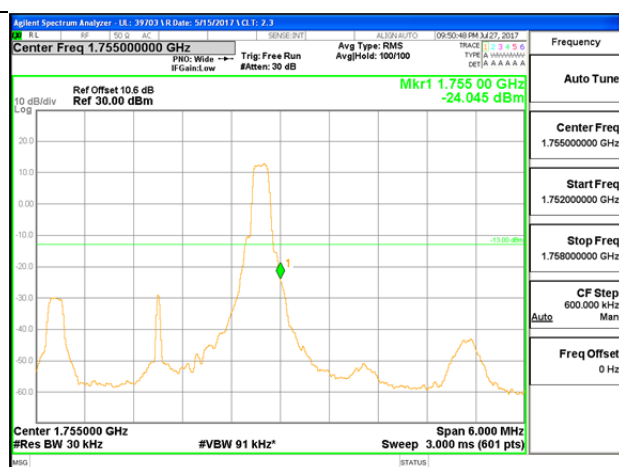


LTE B4 1.4MHz 16QAM High Channel 1RB

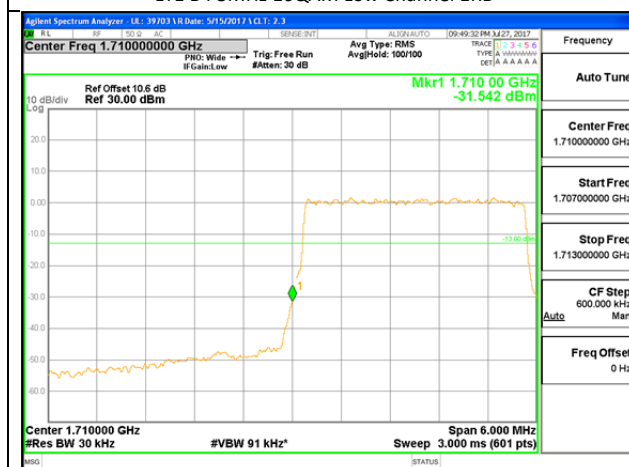




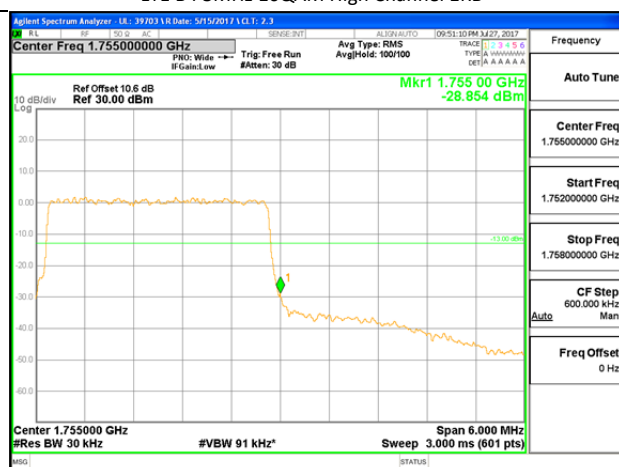
LTE B4 3MHz 16QAM Low Channel 1RB



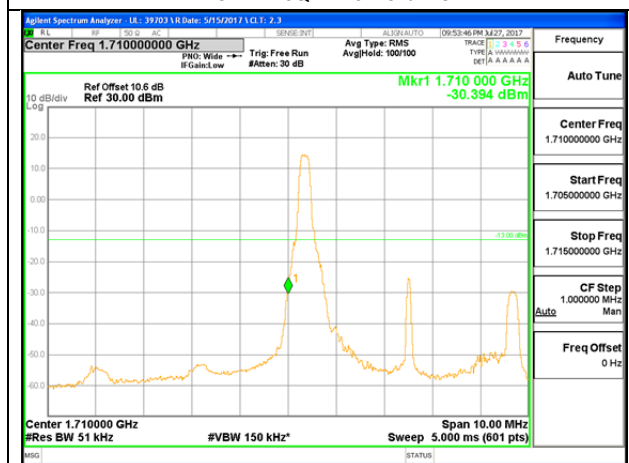
LTE B4 3MHz 16QAM High Channel 1RB



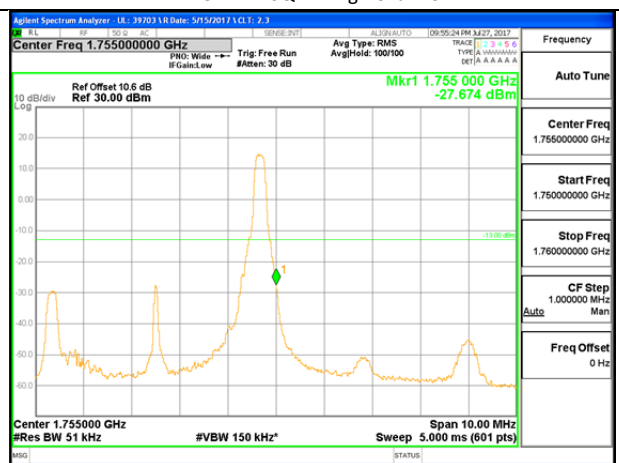
LTE B4 3MHz 16QAM Low Channel FRB



LTE B4 3MHz 16QAM High Channel FRB



LTE B4 5MHz QPSK Low Channel 1RB



LTE B4 5MHz QPSK High Channel 1RB

