

7.4. Spurious and Harmonic Emissions 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.

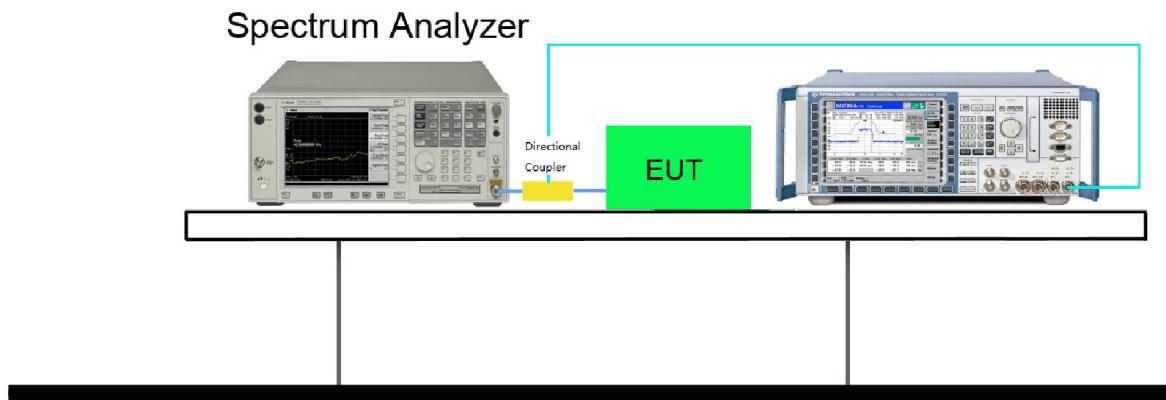
7.4.2. Test Procedure Used

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

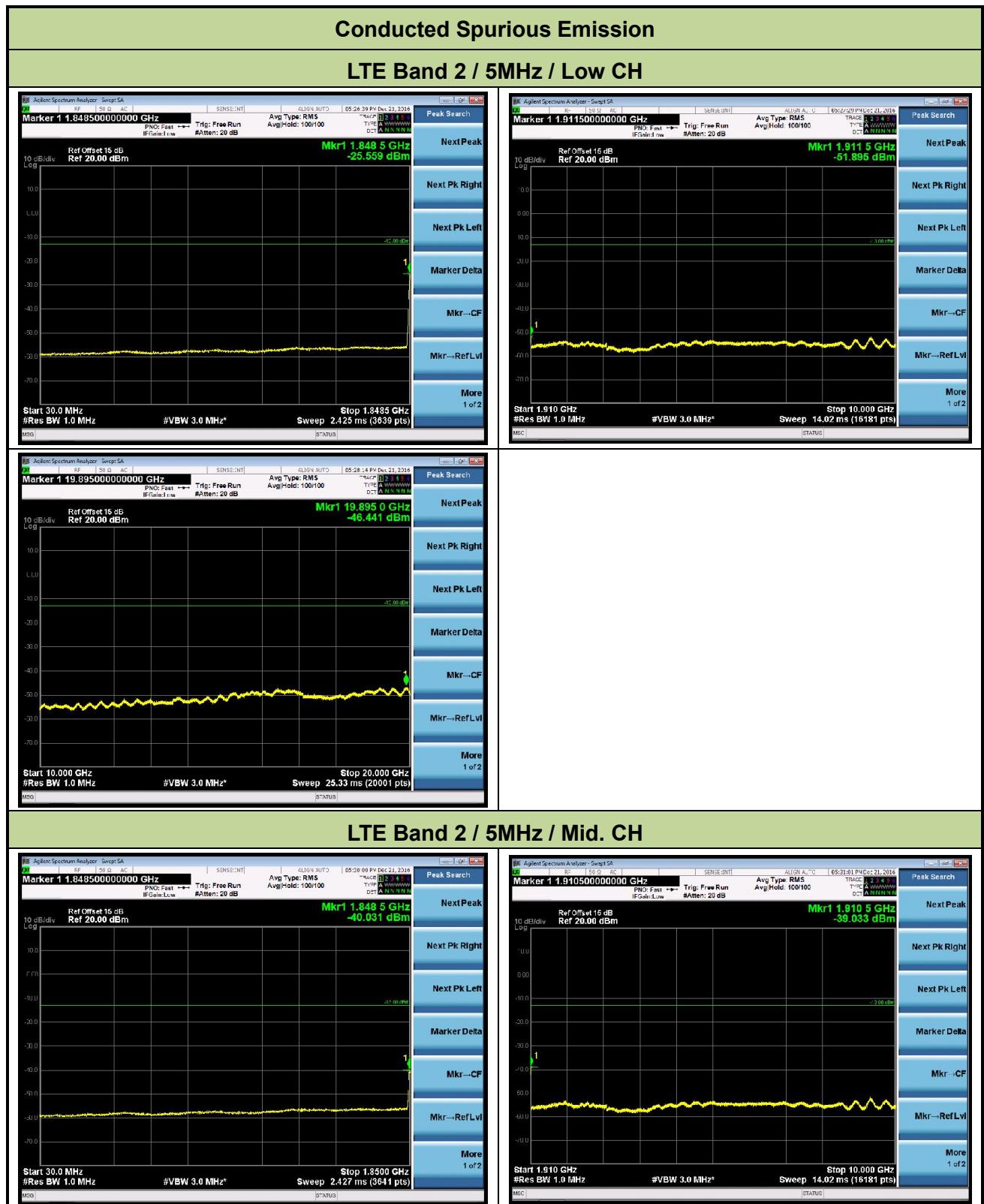
7.4.3. Test Setting

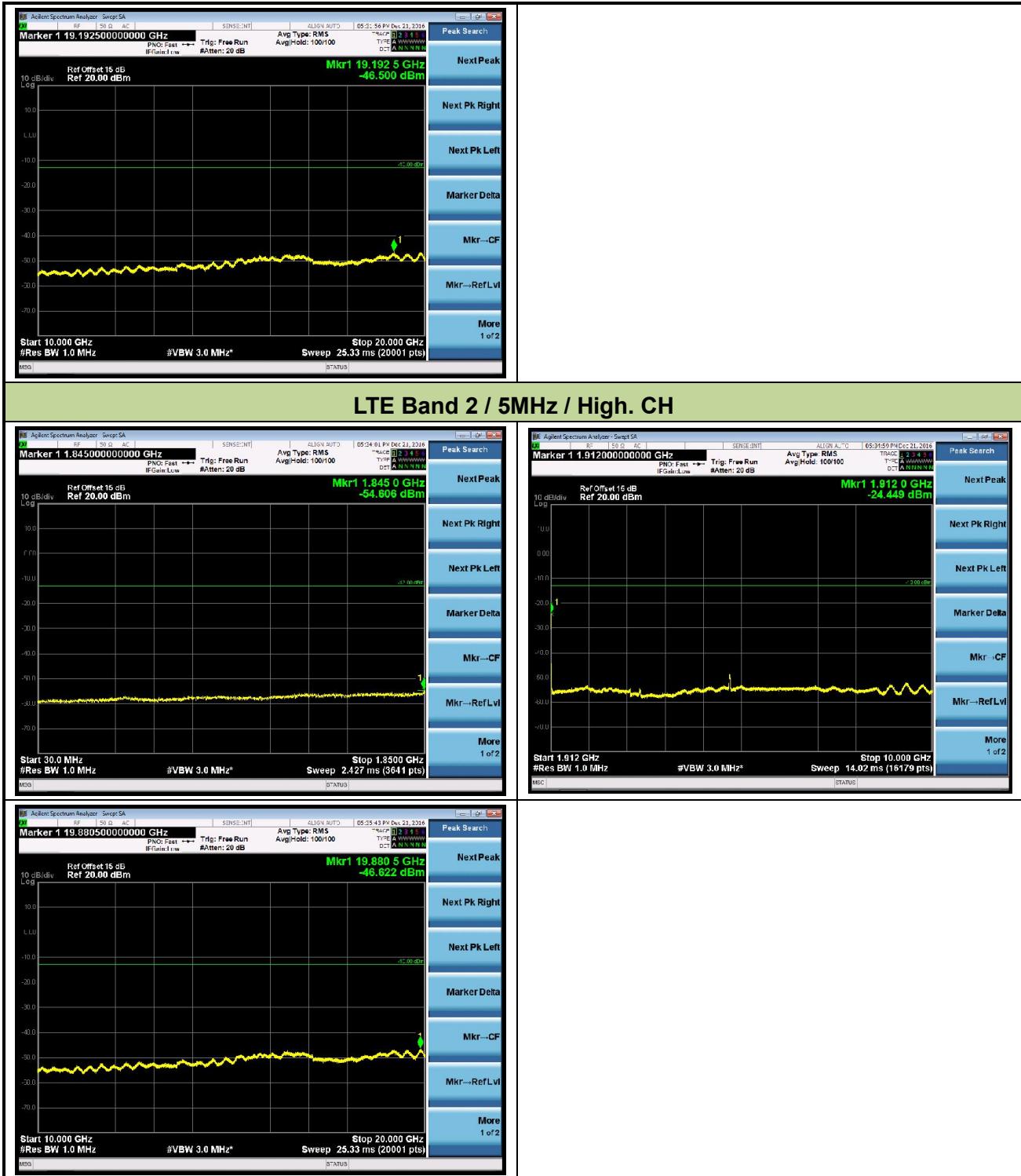
In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.

7.4.4. Test Setup



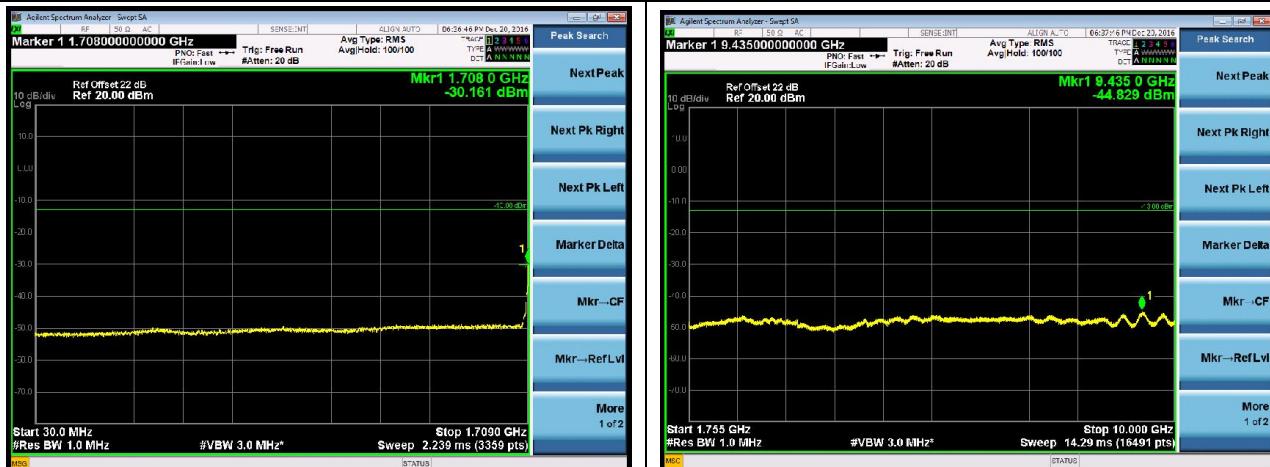
7.4.5. Test Result



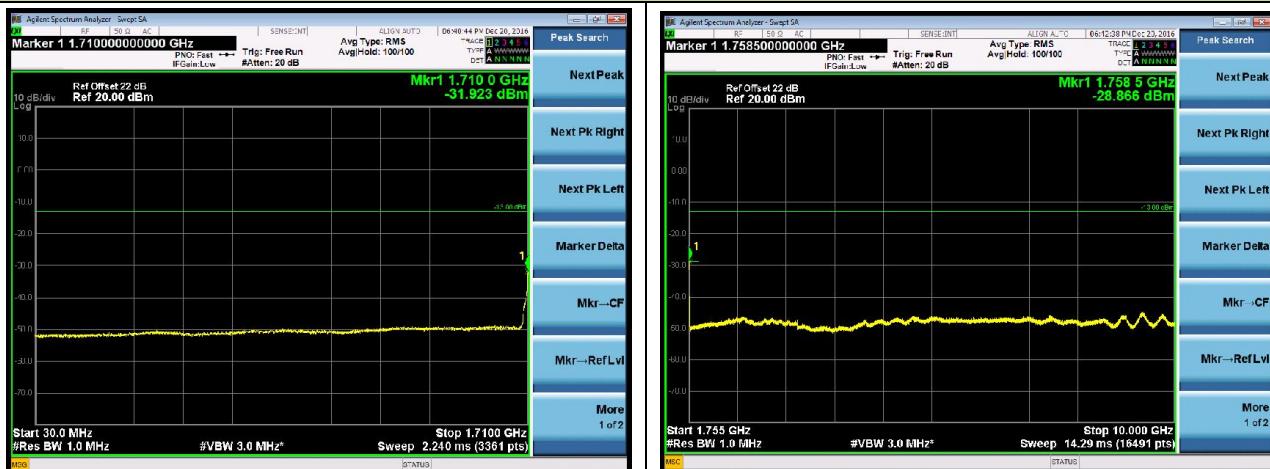


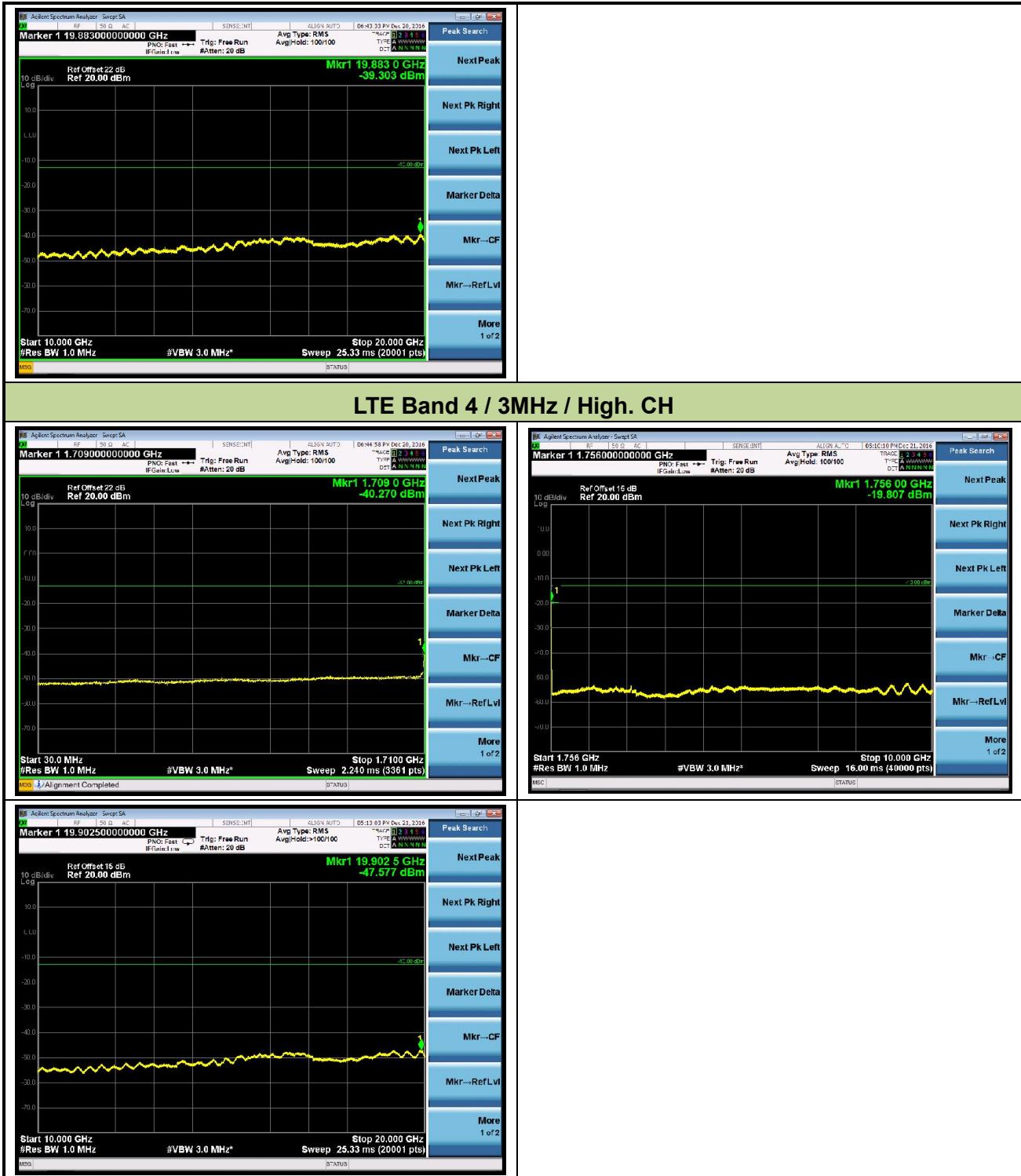
Conducted Spurious Emission

LTE Band 4 / 3MHz / Low CH



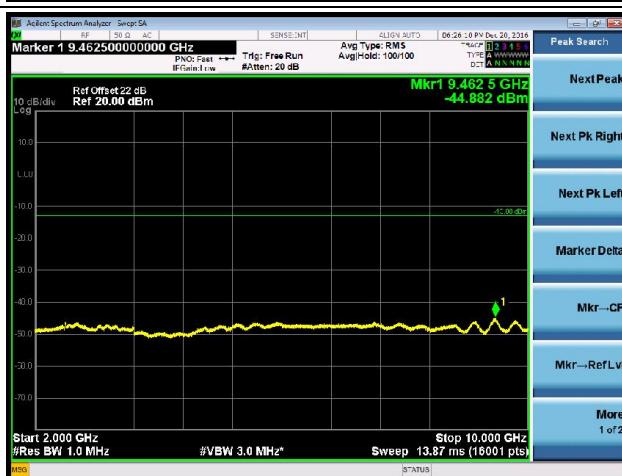
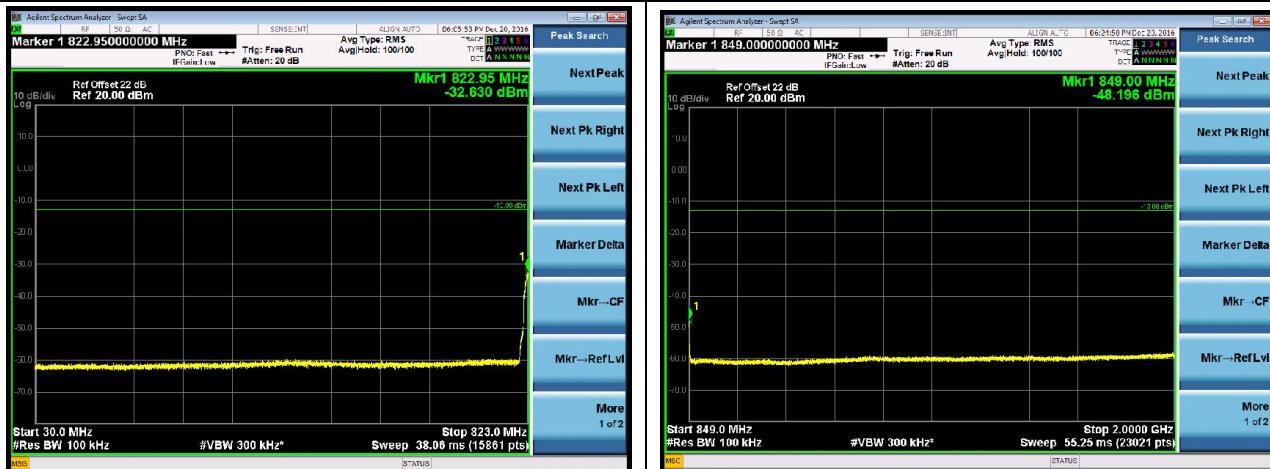
LTE Band 4 / 3MHz / Mid. CH



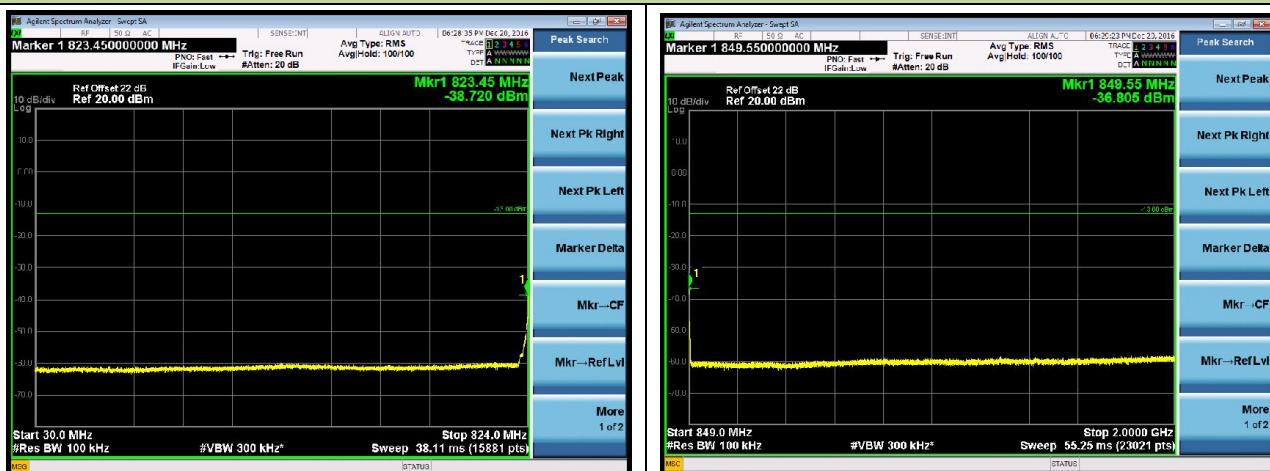


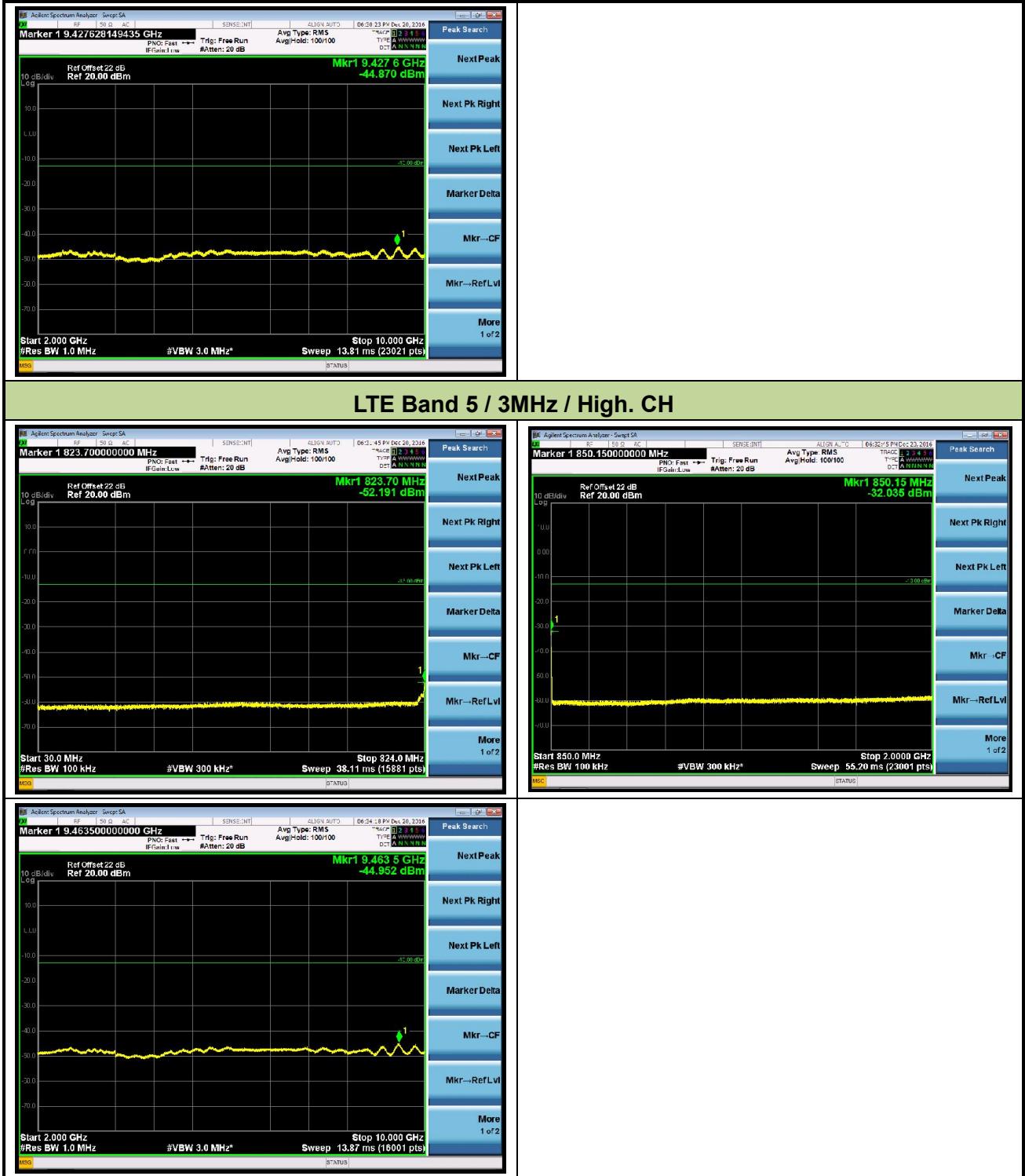
Conducted Spurious Emission

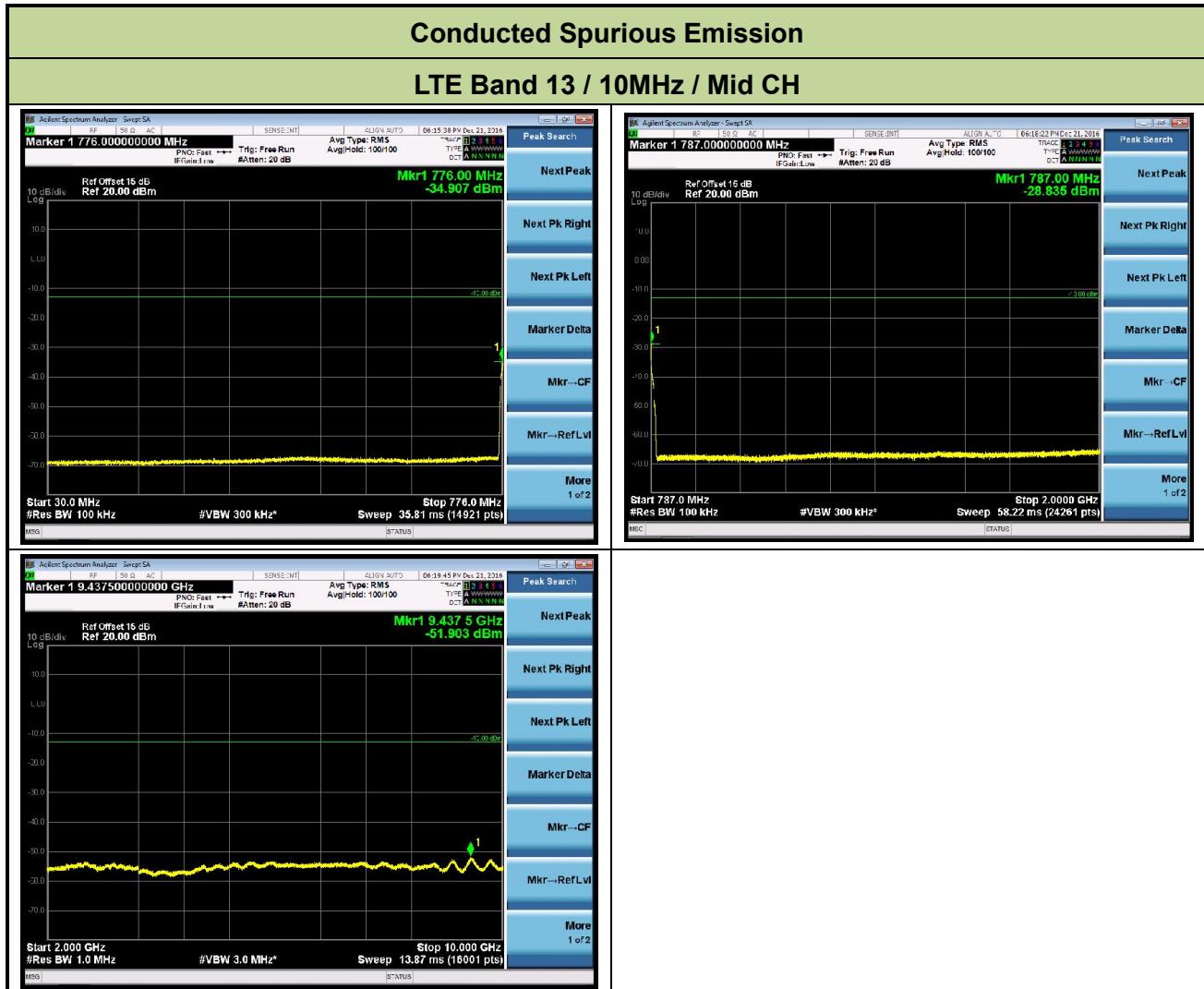
LTE Band 5 / 3MHz / Low CH



LTE Band 5 / 3MHz / Mid. CH

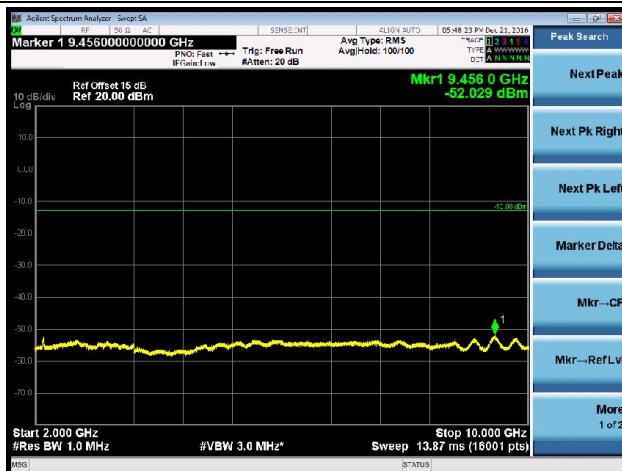
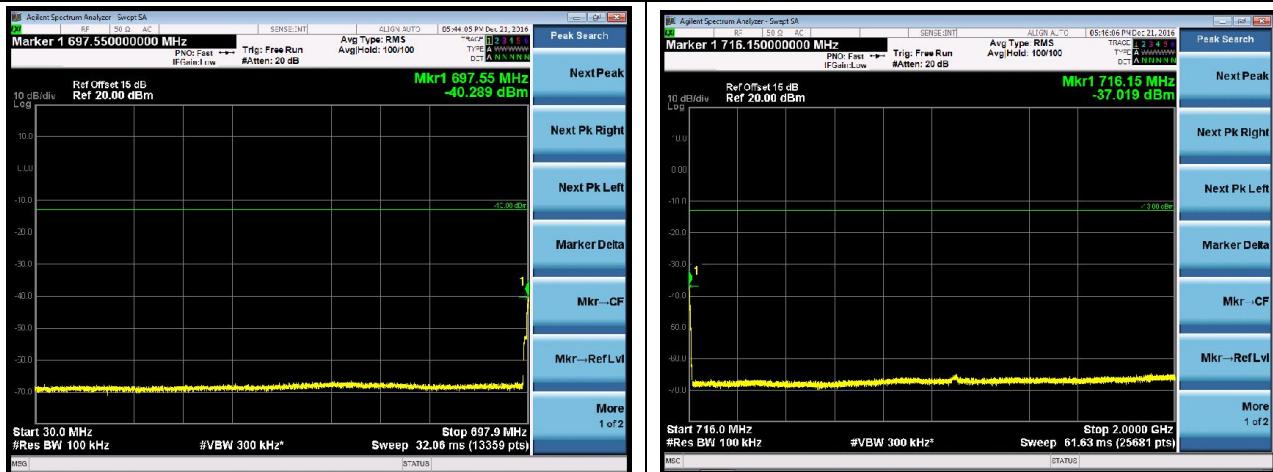




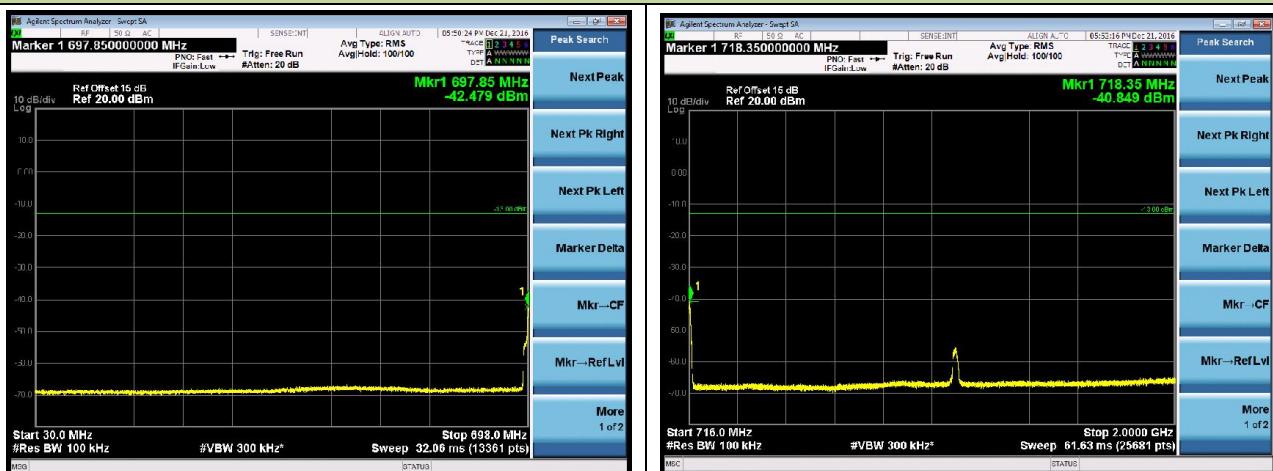


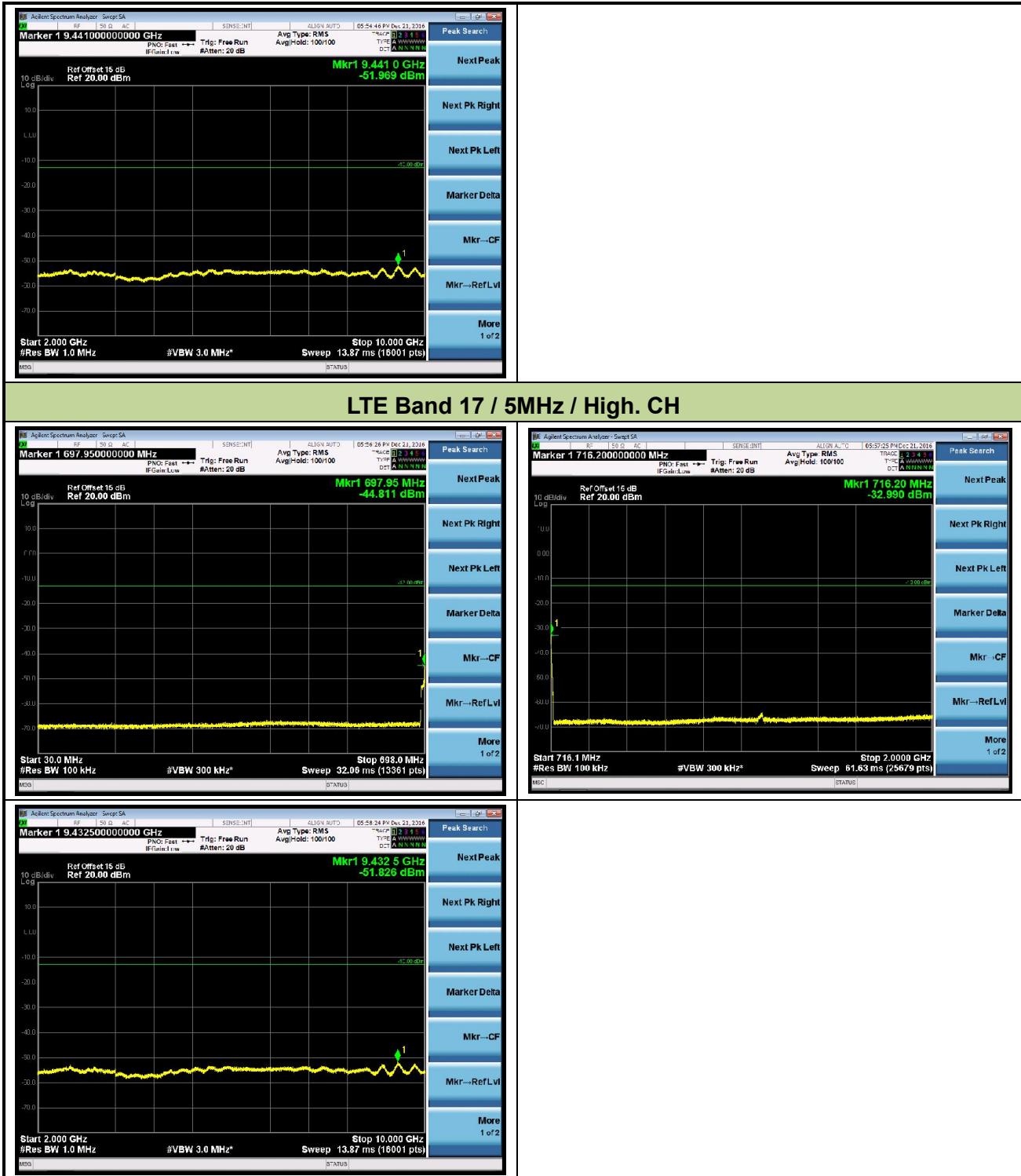
Conducted Spurious Emission

LTE Band 17 / 5MHz / Low CH



LTE Band 17 / 5MHz / Mid. CH





7.5. Peak-Average Ratio

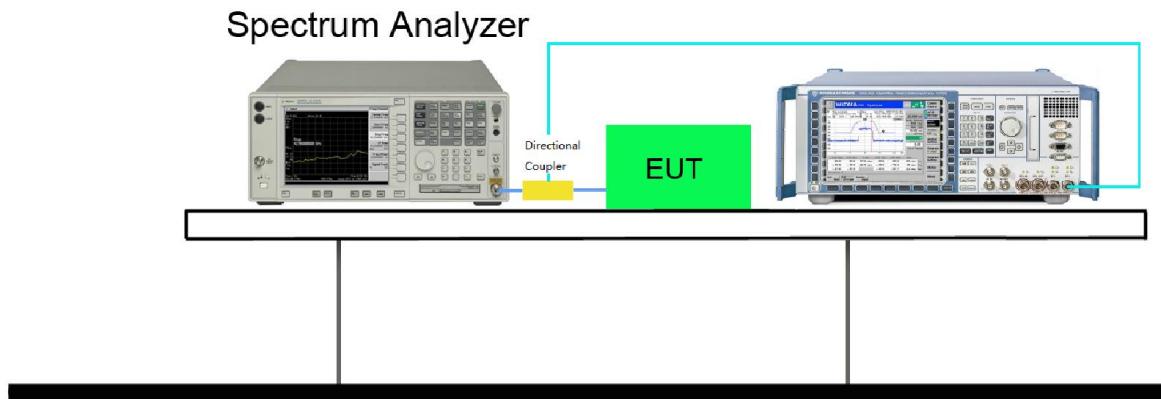
7.5.1. Test Limit

The transmitter's peak-to-average power ratio (PAPR) shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

7.5.2. Test Procedure

KDB 971168 D01v02r02 - Section 5.7 & ANSI/TIA-603-D-2010

7.5.3. Test Setup



7.5.4. Test Result

LTE Band 2 / 20MHz					
Mod.	QPSK		16-QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Low CH	3.94	5.26	4.85	5.90	Pass
Mid. CH	3.10	5.09	4.37	5.81	Pass
High CH	3.98	5.11	4.93	5.82	Pass

LTE Band 4 / 20MHz					
Mod.	QPSK		16-QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Low CH	4.22	5.49	5.20	6.17	Pass
Mid. CH	4.26	5.31	5.36	6.11	Pass
High CH	3.91	5.35	4.89	6.09	Pass

LTE Band 5 / 10MHz					
Mod.	QPSK		16-QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Low CH	4.29	5.29	4.92	6.05	Pass
Mid. CH	4.53	5.26	5.38	6.10	Pass
High CH	4.45	5.15	5.24	5.91	Pass

LTE Band 13 / 10MHz					
Mod.	QPSK		16-QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Mid. CH	4.22	5.25	5.22	6.00	Pass

LTE Band 17 / 10MHz					
Mod.	QPSK		16-QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Low CH	4.55	5.22	5.36	6.09	Pass
Mid. CH	4.52	5.24	5.45	6.08	Pass
High CH	4.57	5.33	5.59	6.11	Pass

