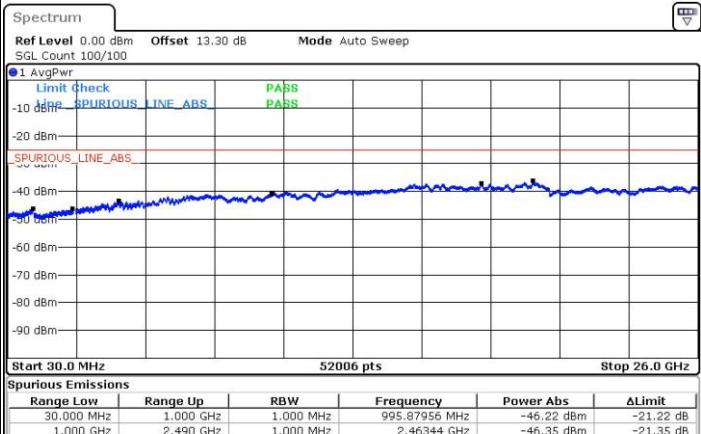
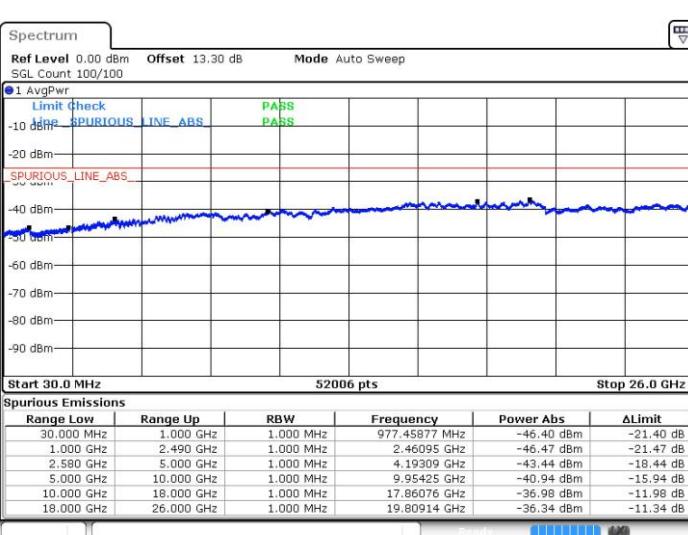




LTE Band 7 / 15MHz

Highest Channel / QPSK

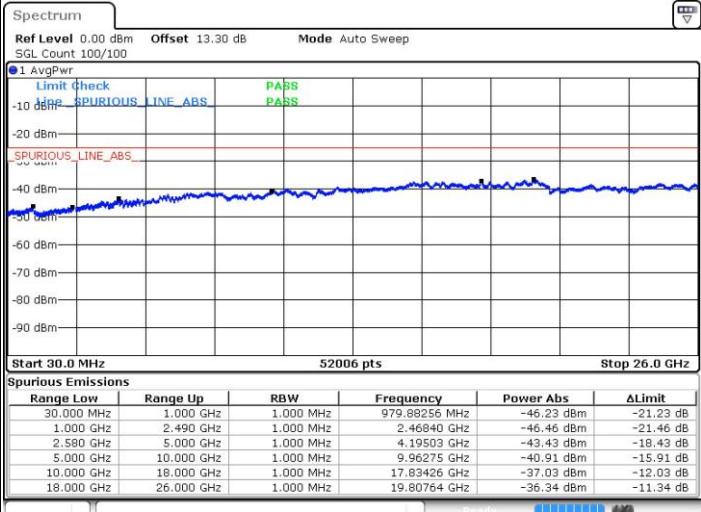
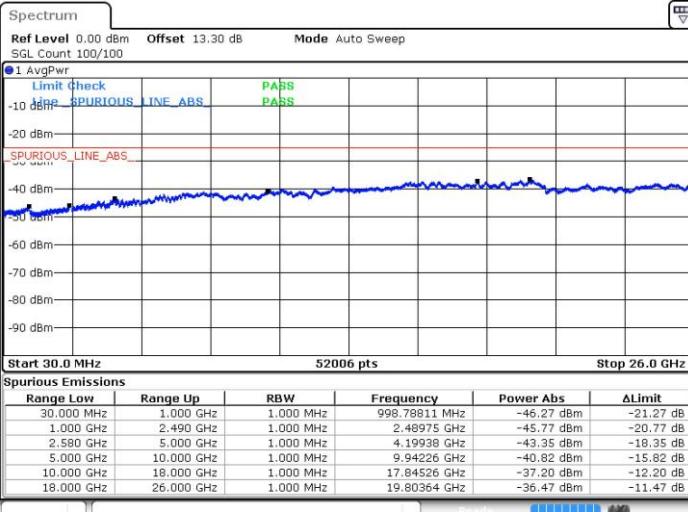
Highest Channel / 16QAM



LTE Band 7 / 20MHz

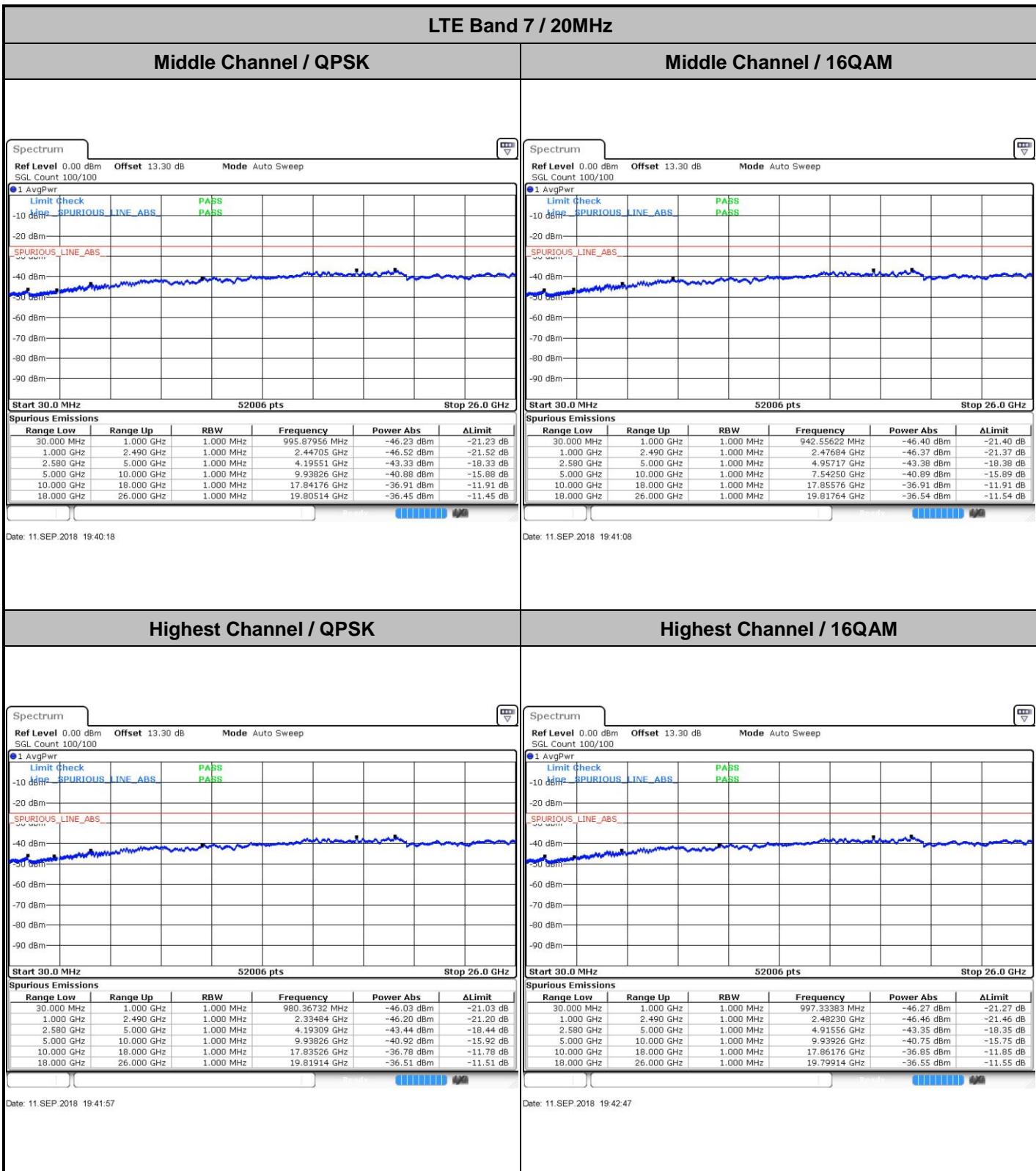
Lowest Channel / QPSK

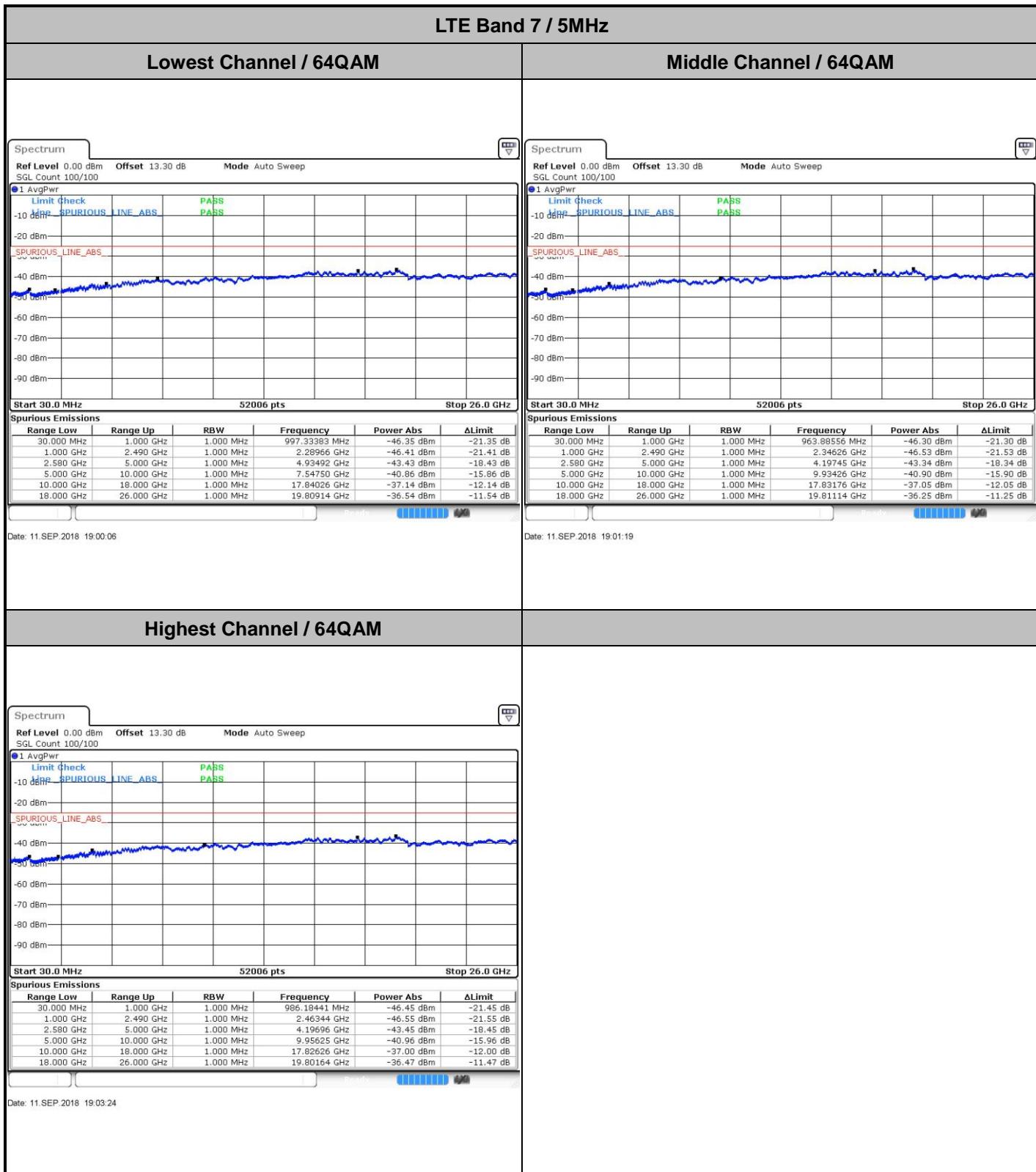
Lowest Channel / 16QAM

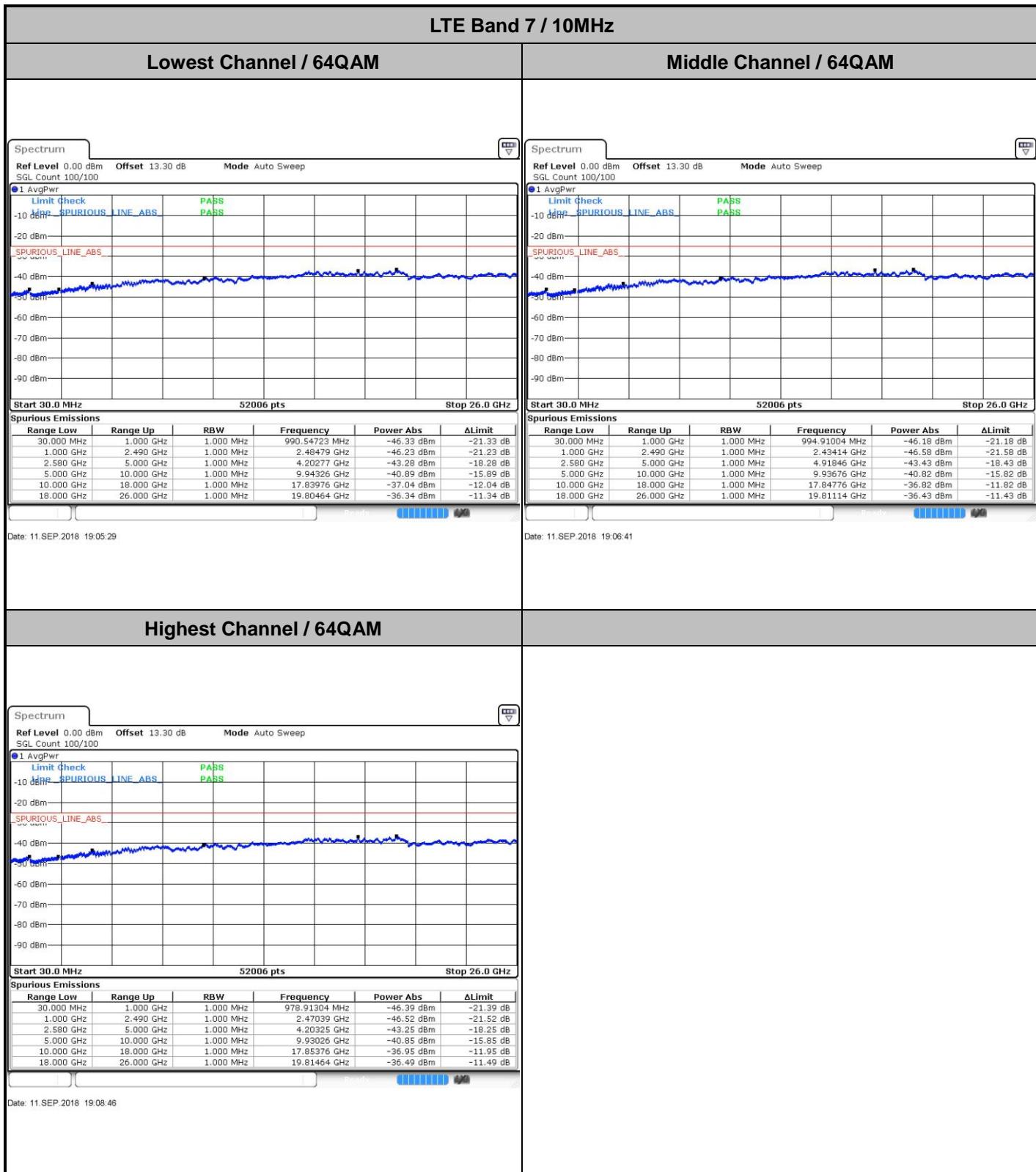


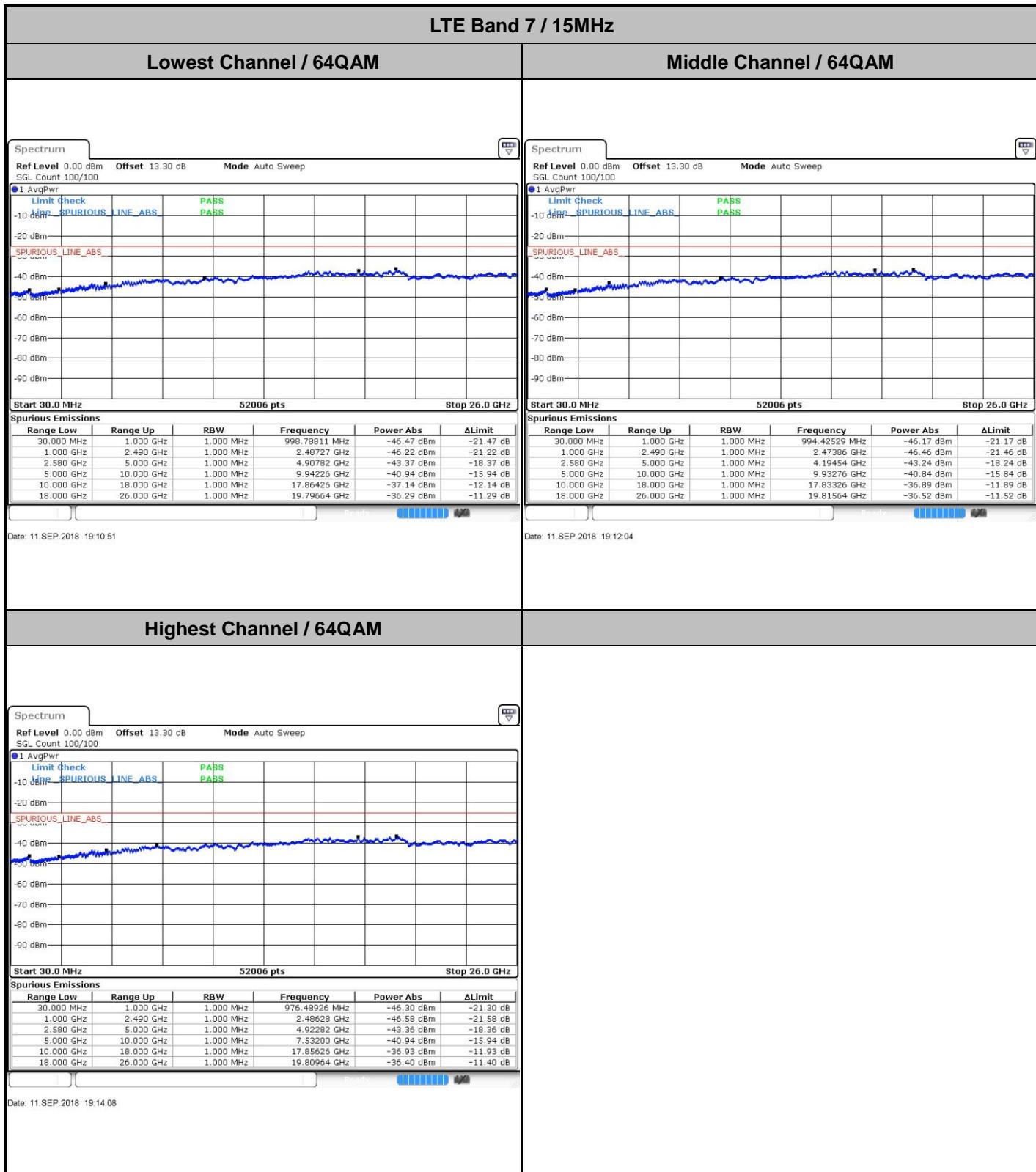
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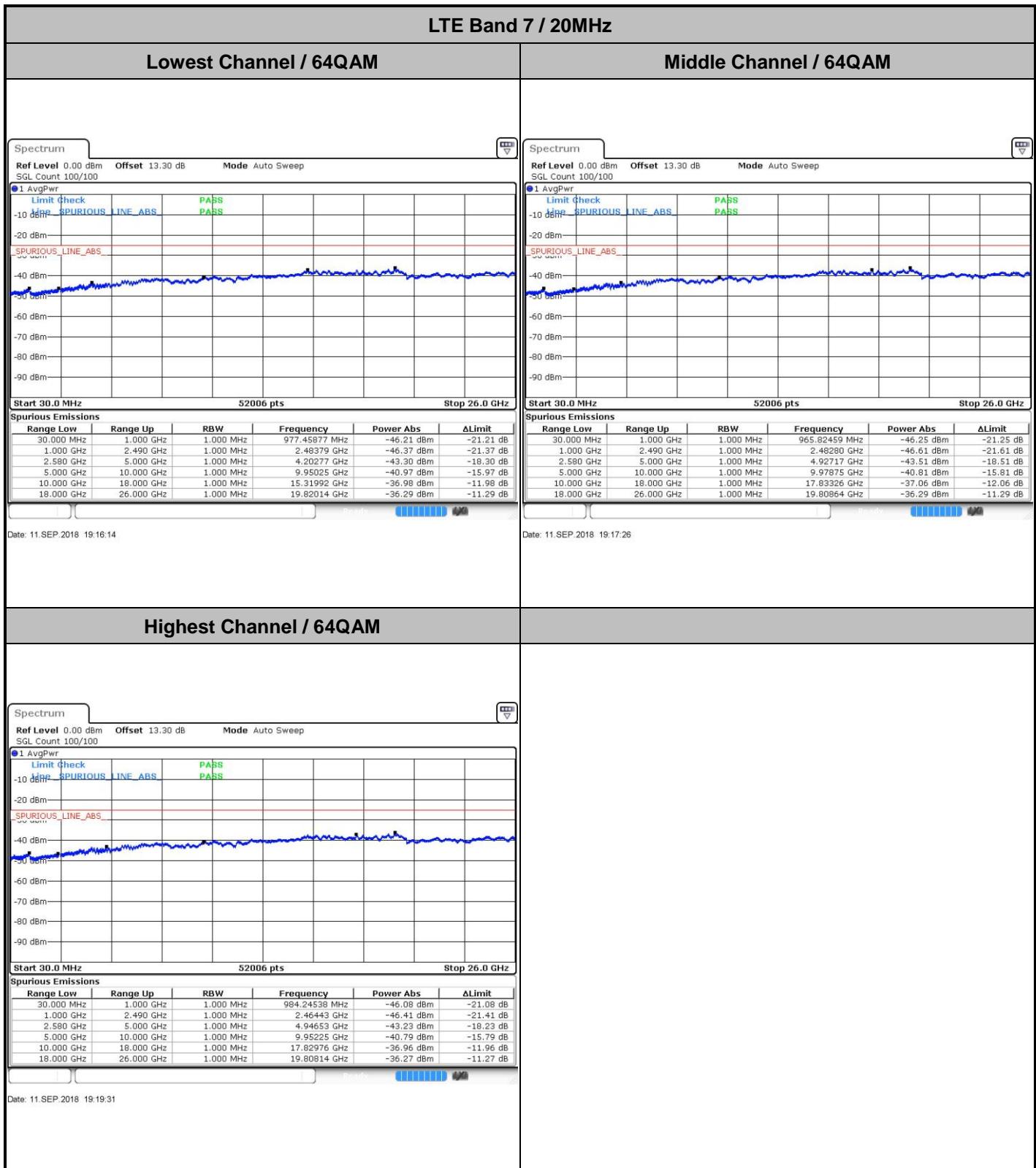
Date: 11 SEP 2018 19:39:28













Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0047	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0041	
-10	Normal Voltage	0.0048	
-20	Normal Voltage	0.0042	
-30	Normal Voltage	0.0042	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

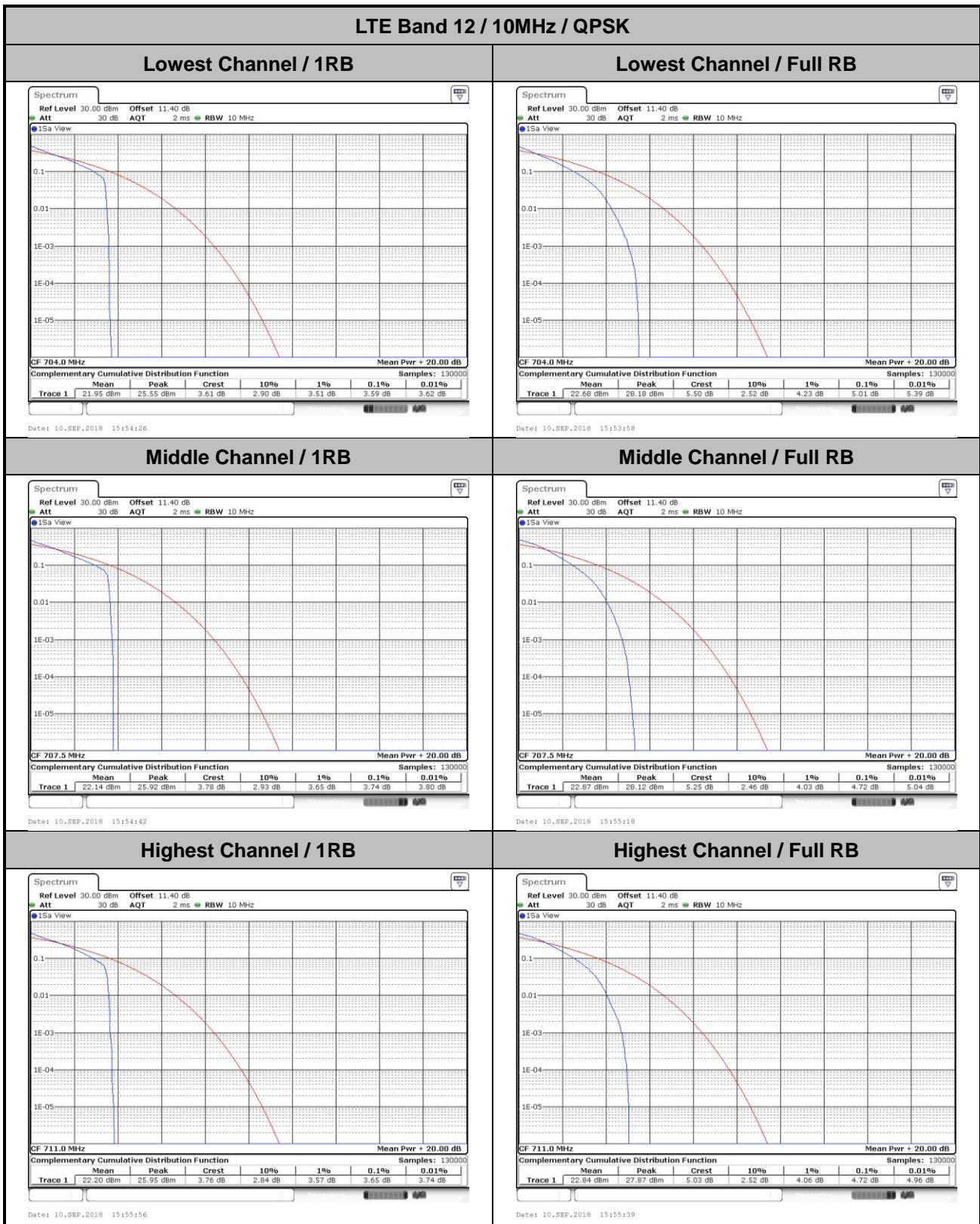
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.4V.
2. The frequency fundamental emissions stay within the authorized frequency block.

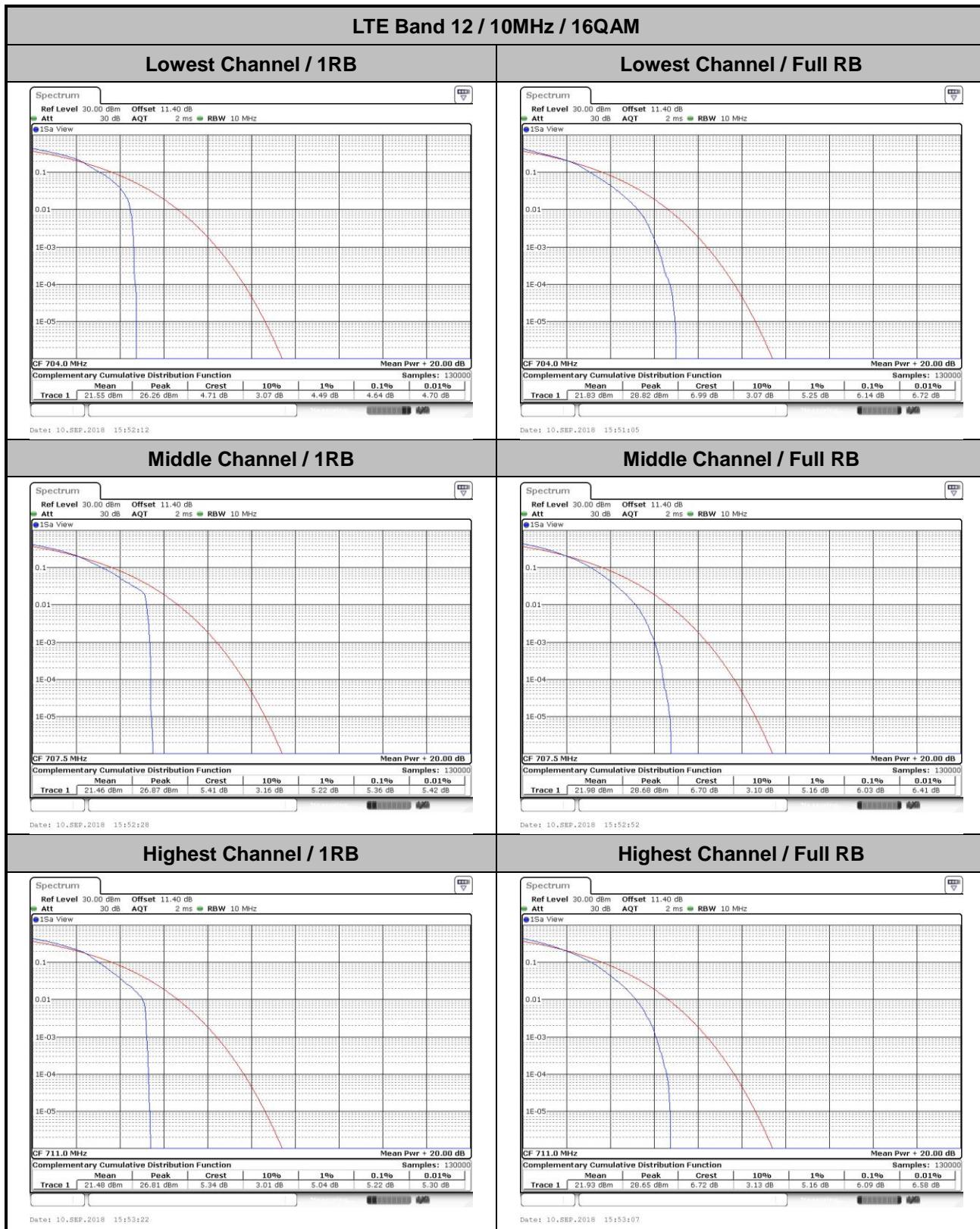


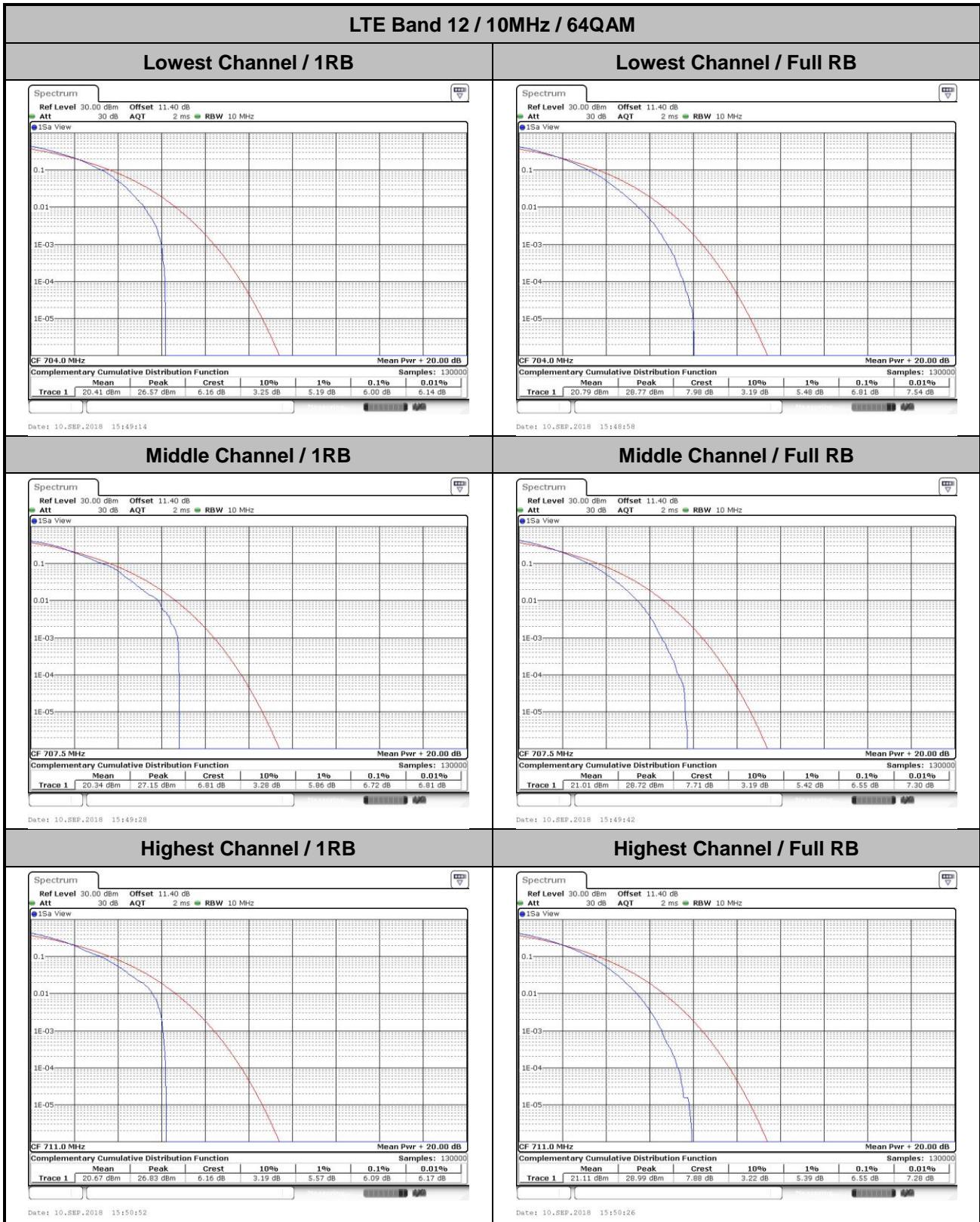
LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	5.01	4.64	6.14	PASS
Middle CH	3.74	4.72	5.36	6.03	
Highest CH	3.65	4.72	5.22	6.09	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.00	6.81	-	-	PASS
Middle CH	6.72	6.55	-	-	
Highest CH	6.09	6.55	-	-	

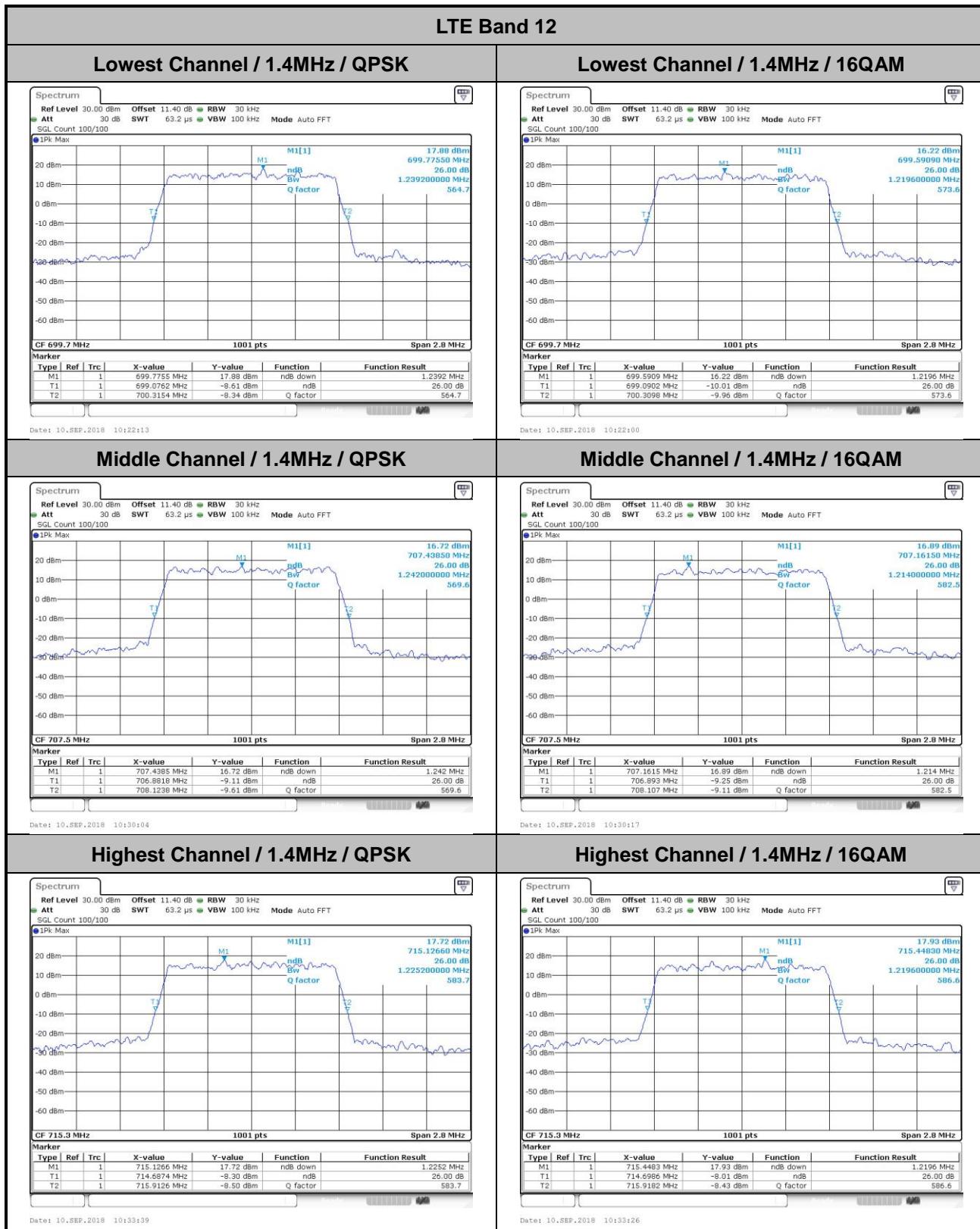


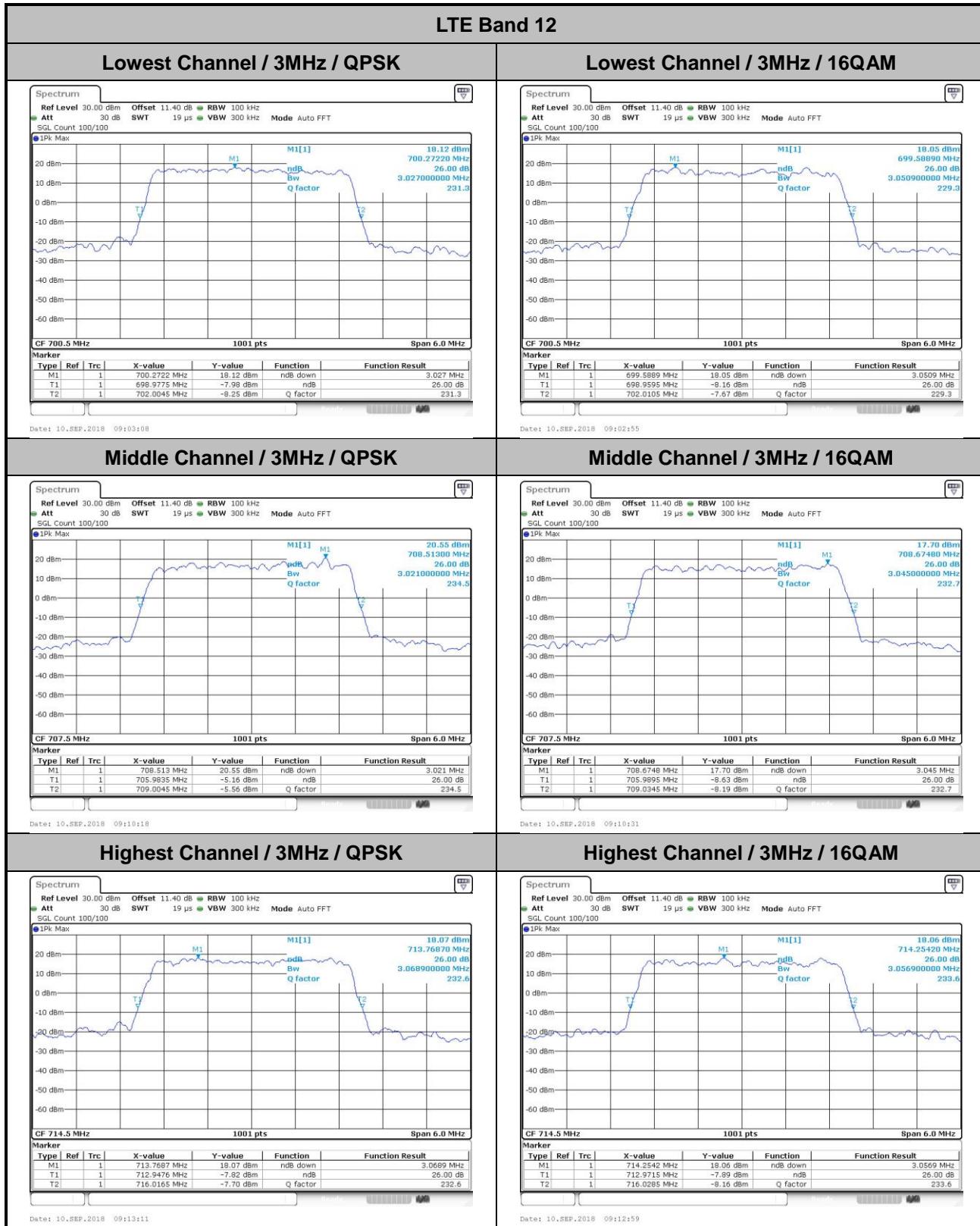


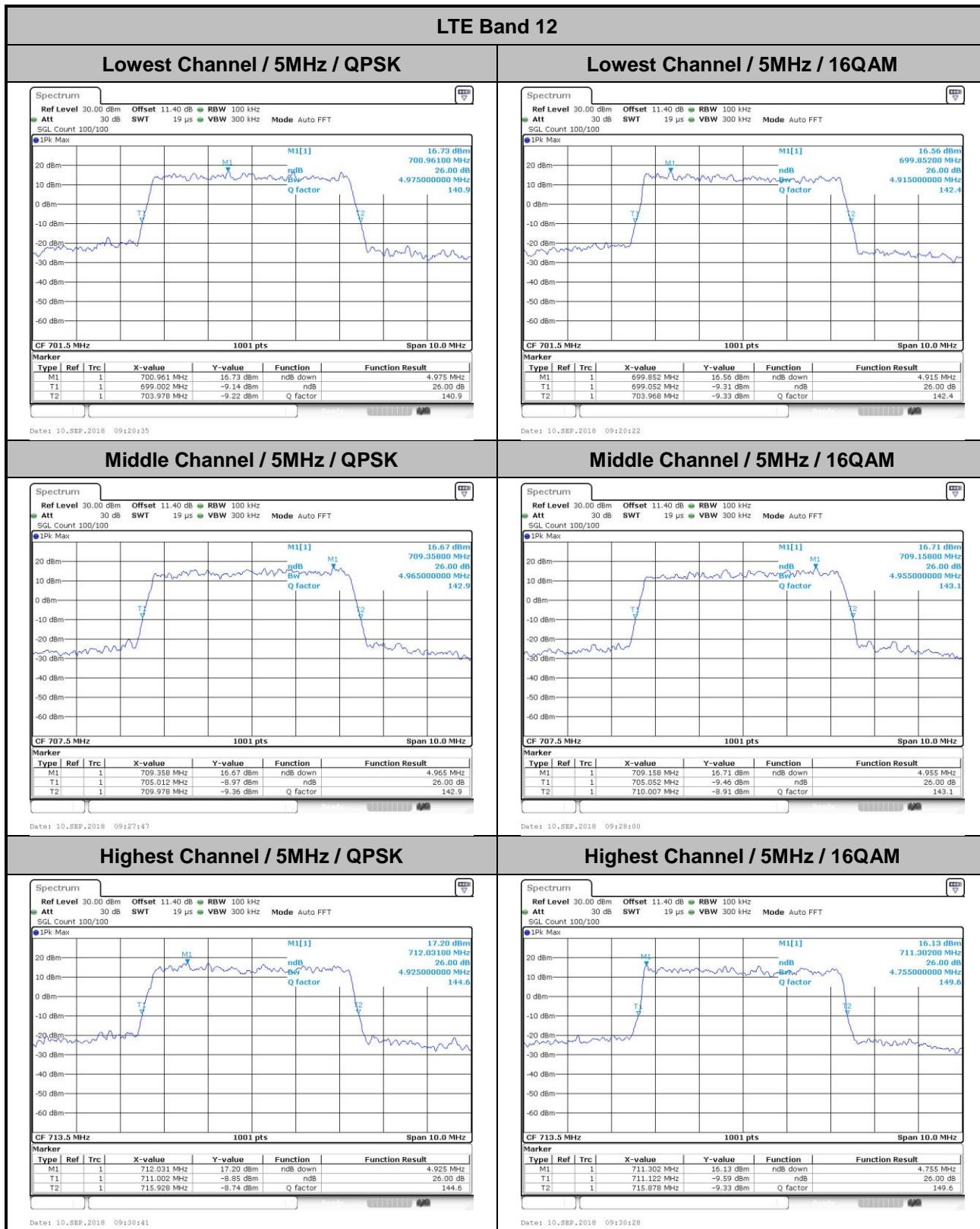


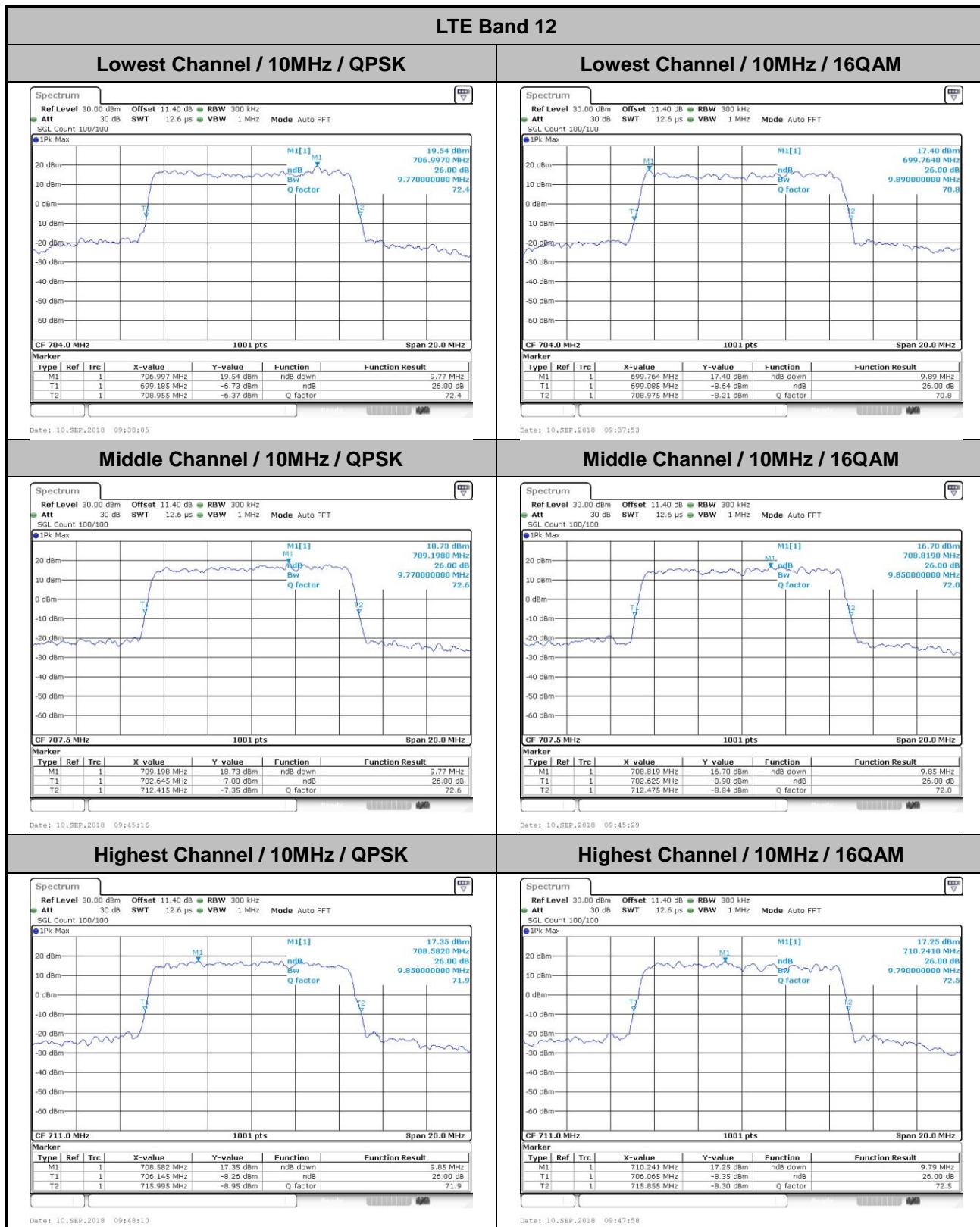
**26dB Bandwidth**

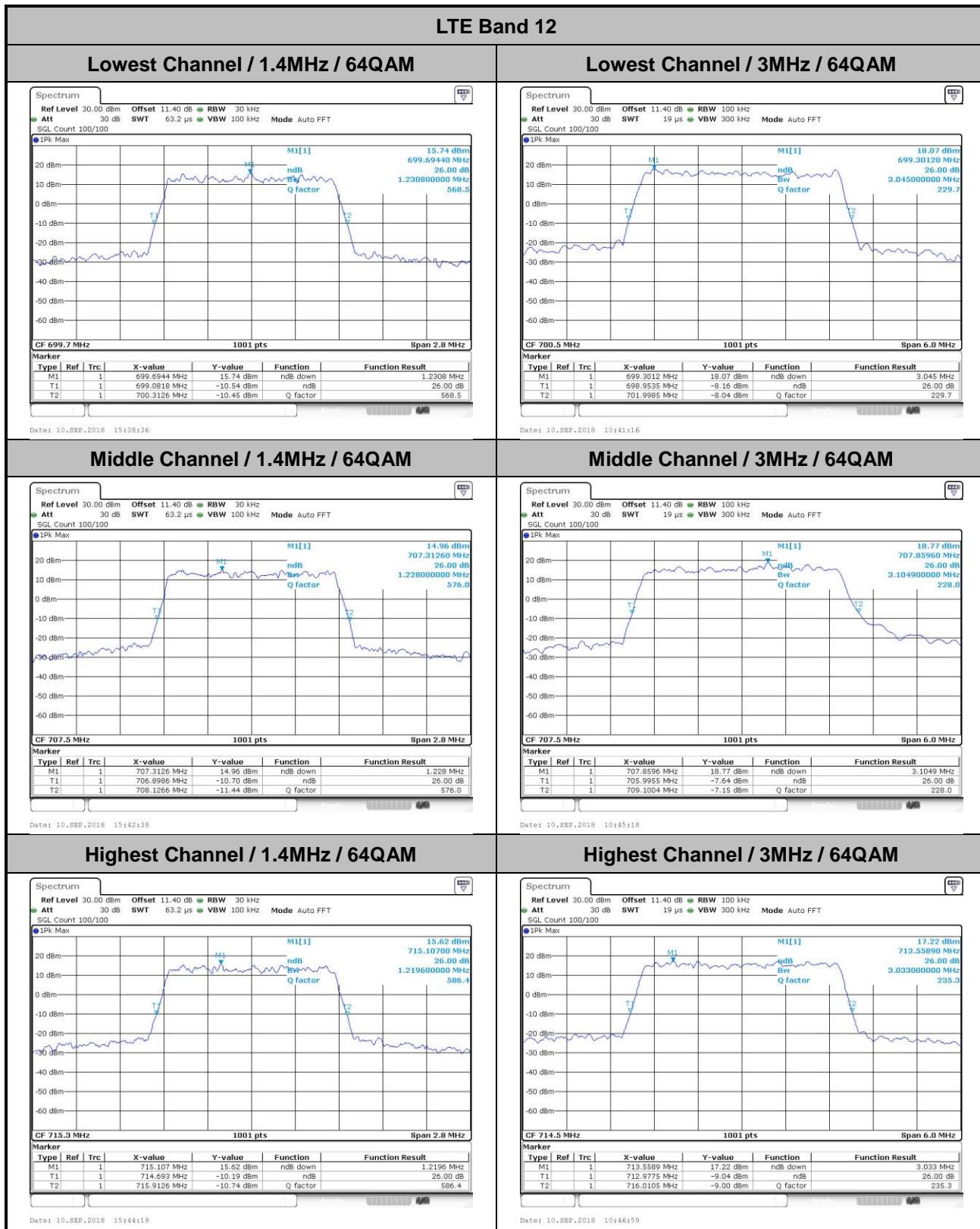
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.24	1.22	3.03	3.05	4.98	4.92	9.77	9.89	-	-	-	-
Middle CH	1.24	1.21	3.02	3.05	4.97	4.96	9.77	9.85	-	-	-	-
Highest CH	1.23	1.22	3.07	3.06	4.93	4.76	9.85	9.79	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.05	-	4.84	-	9.89	-	-	-	-	-
Middle CH	1.23	-	3.10	-	4.90	-	9.71	-	-	-	-	-
Highest CH	1.22	-	3.03	-	4.93	-	9.81	-	-	-	-	-

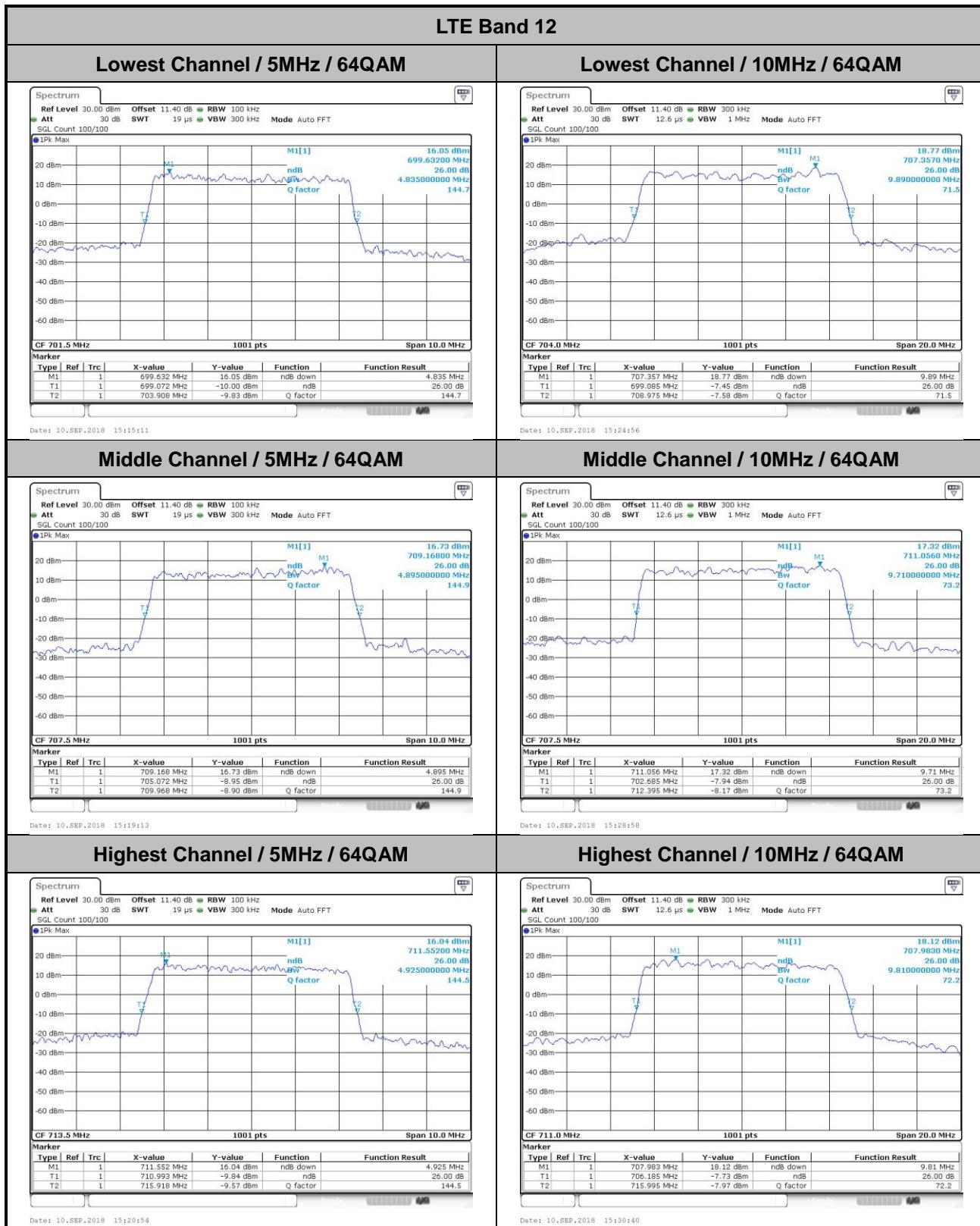












**Occupied Bandwidth**

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.71	4.53	4.52	9.05	9.09	-	-	-	-
Middle CH	1.09	1.09	2.73	2.74	4.52	4.5	9.03	8.97	-	-	-	-
Highest CH	1.09	1.09	2.73	2.73	4.5	4.51	9.03	8.99	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.75	-	4.48	-	9.11	-	-	-	-	-
Middle CH	1.09	-	2.71	-	4.50	-	8.91	-	-	-	-	-
Highest CH	1.09	-	2.75	-	4.51	-	8.95	-	-	-	-	-

