

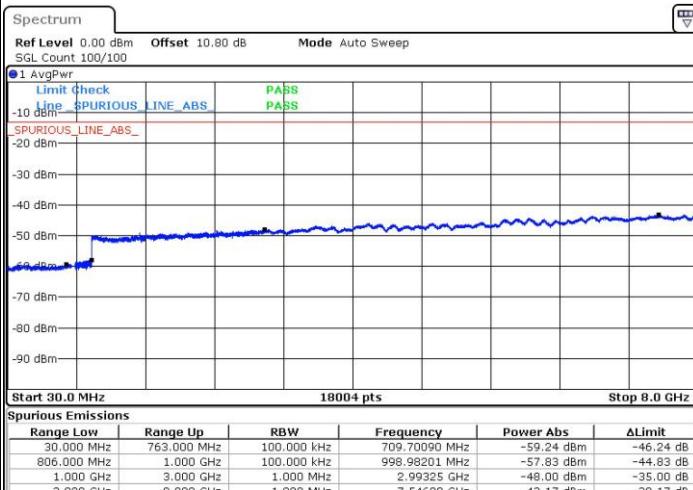
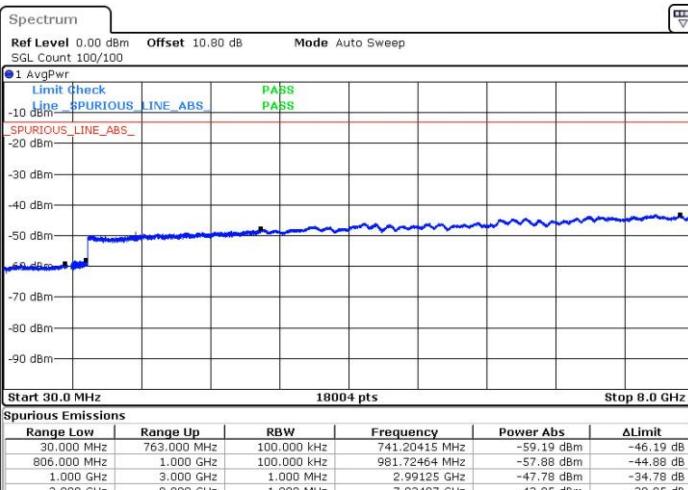


Conducted Spurious Emission

LTE Band 13 / 5MHz

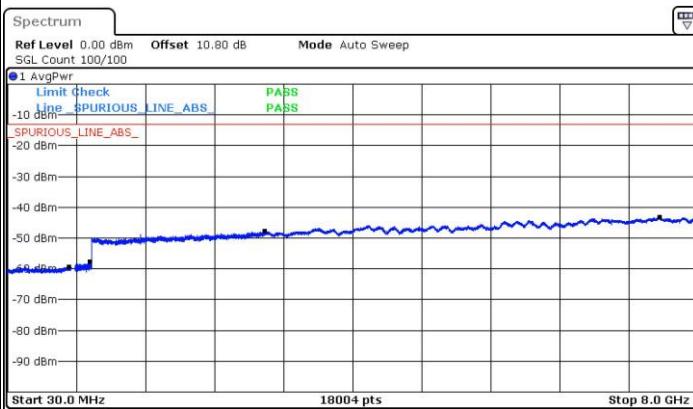
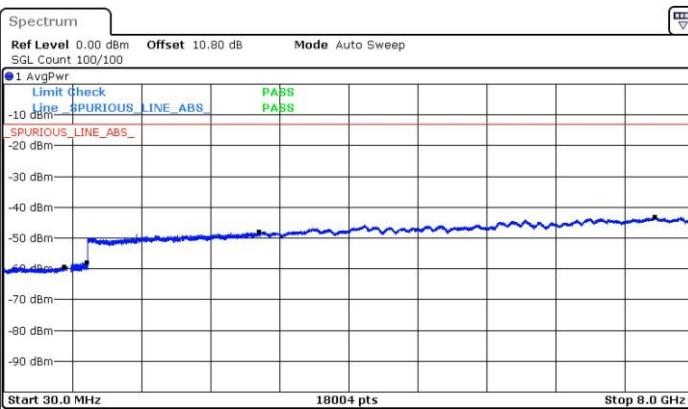
Lowest Channel / QPSK

Lowest Channel / 16QAM



Middle Channel / QPSK

Middle Channel / 16QAM



Date: 5.SEP.2018 23:24:07

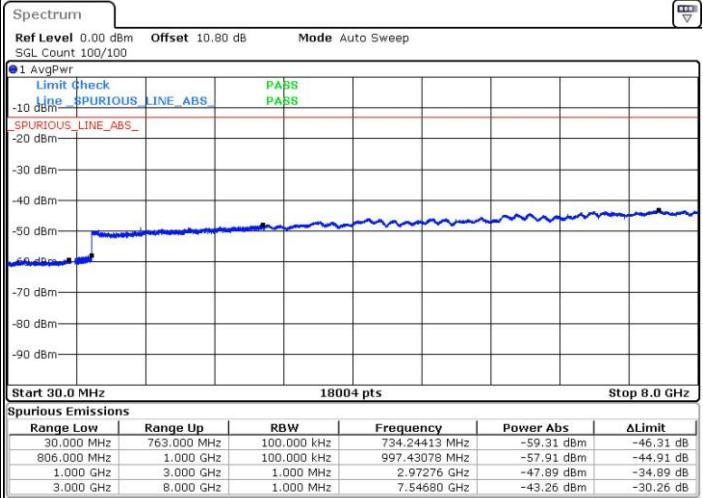
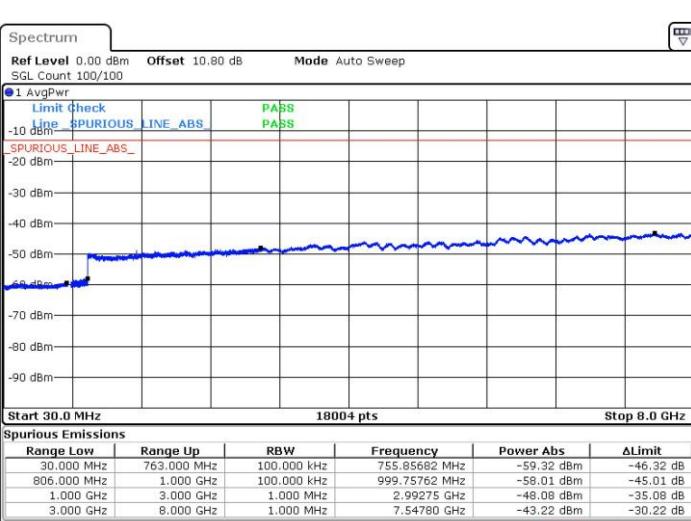
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LTE Band 13 / 5MHz

Highest Channel / QPSK

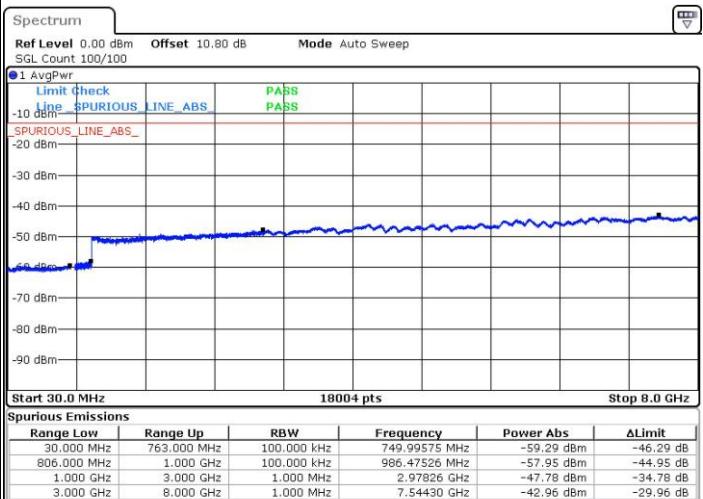
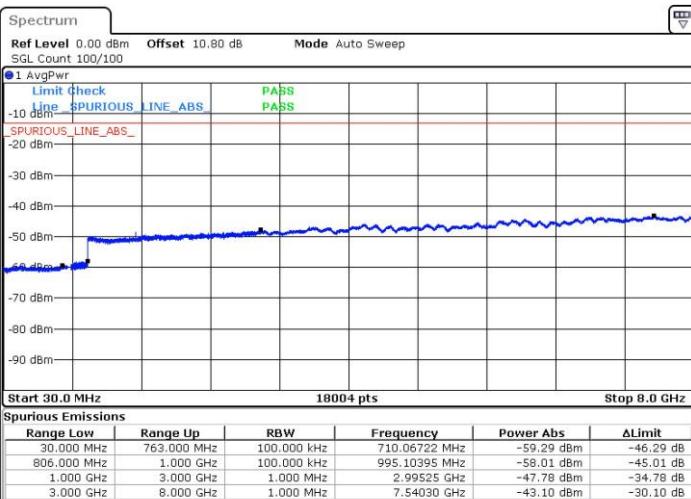
Highest Channel / 16QAM

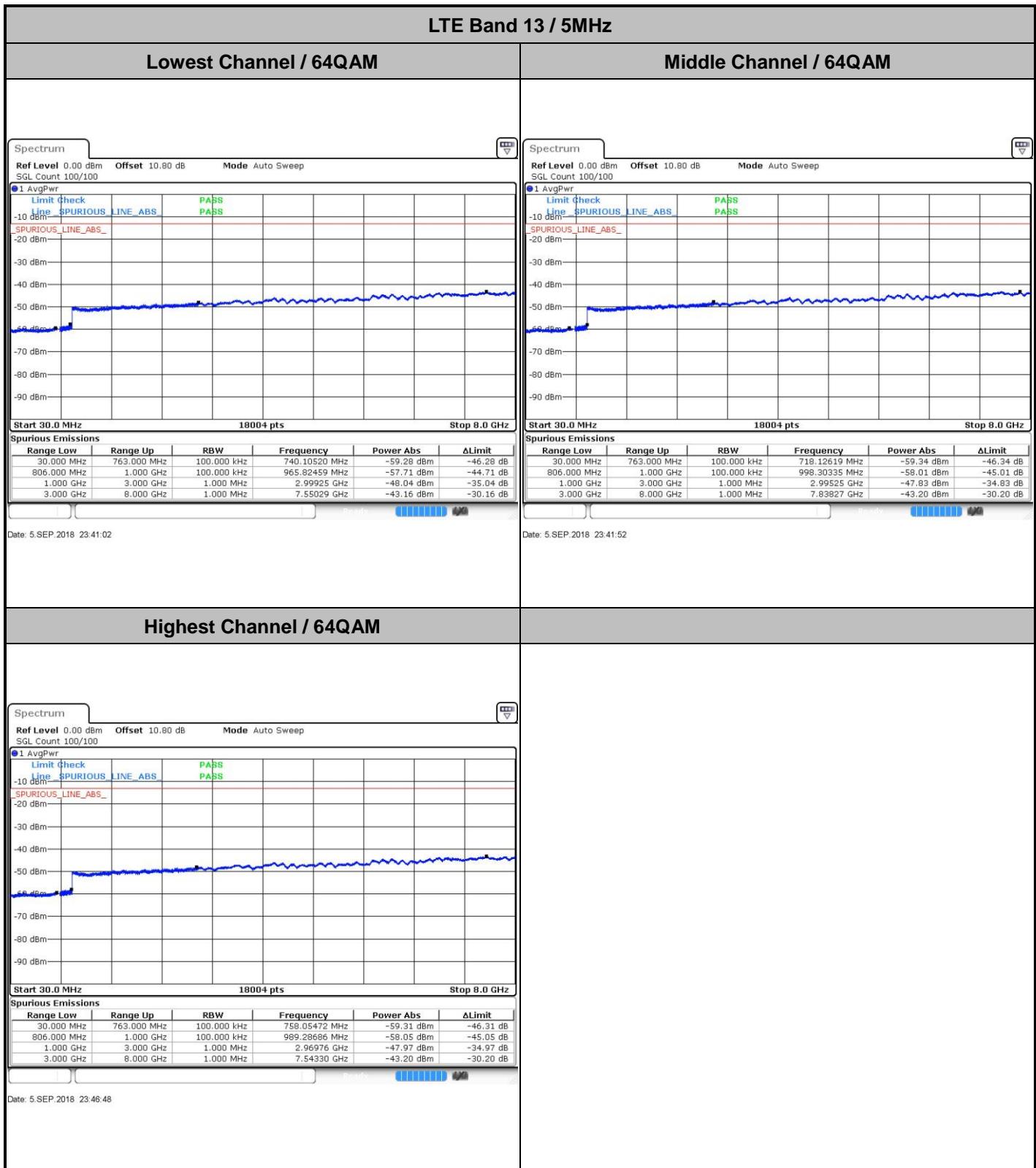


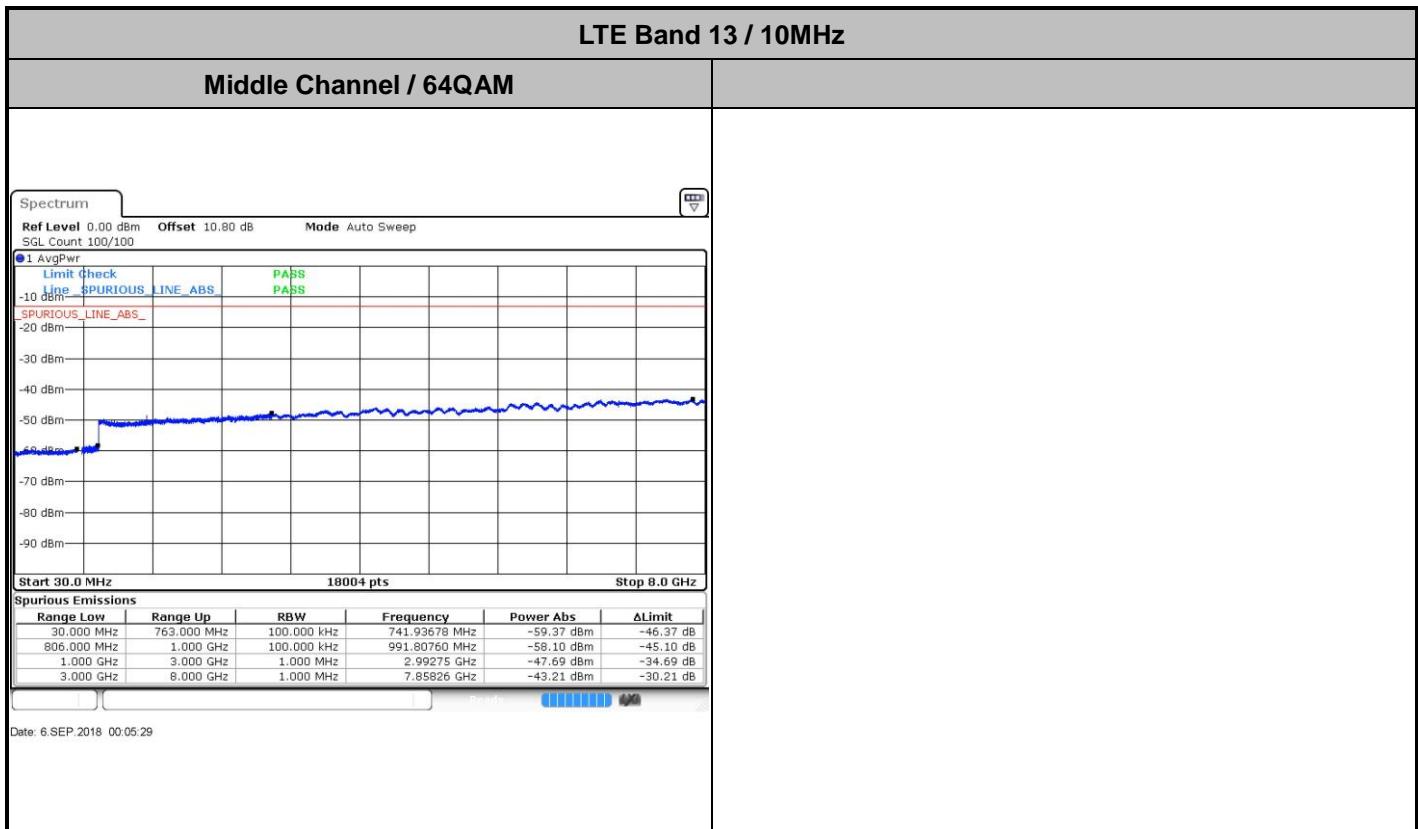
LTE Band 13 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM









Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0027	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0065	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0068	

Note:

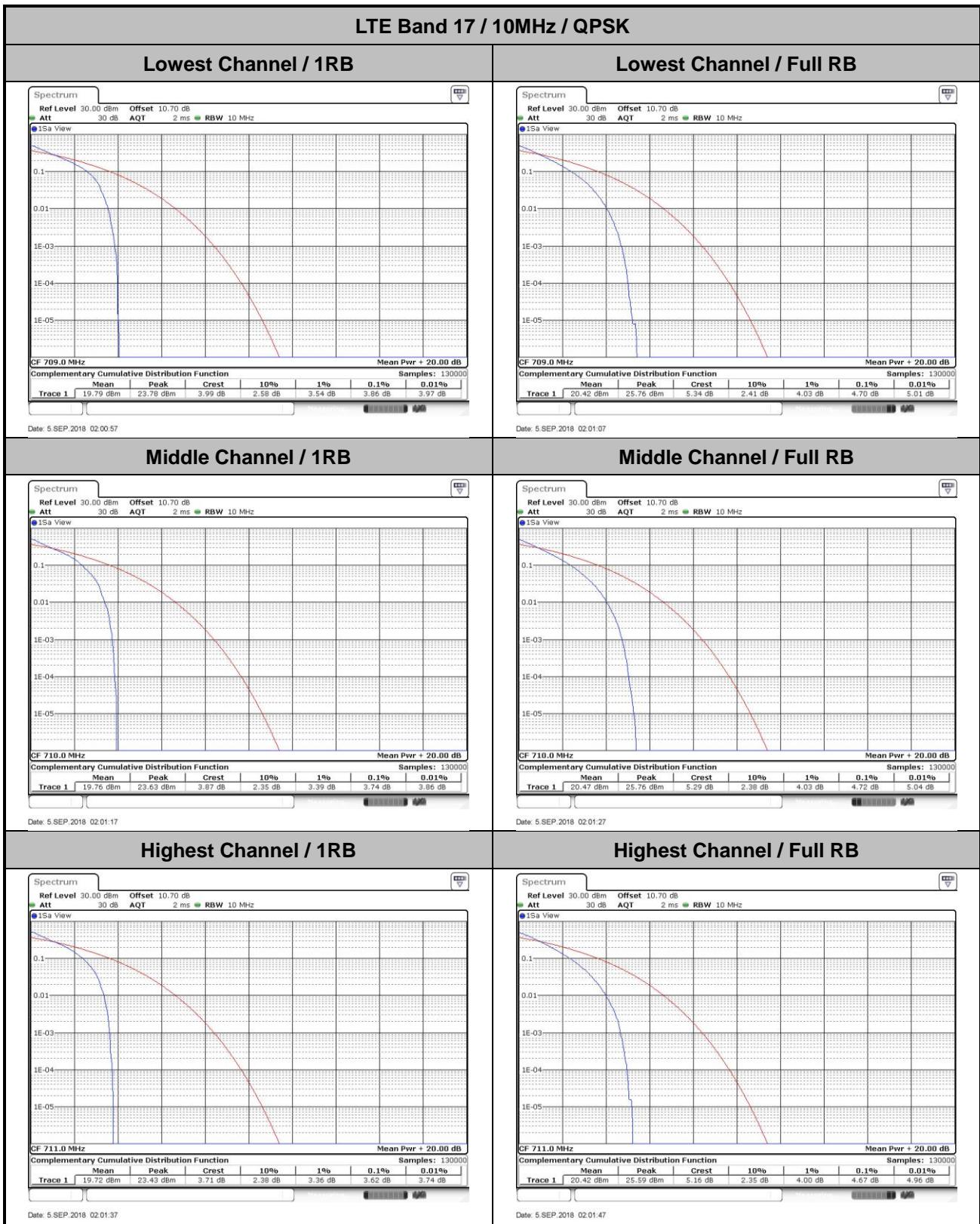
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

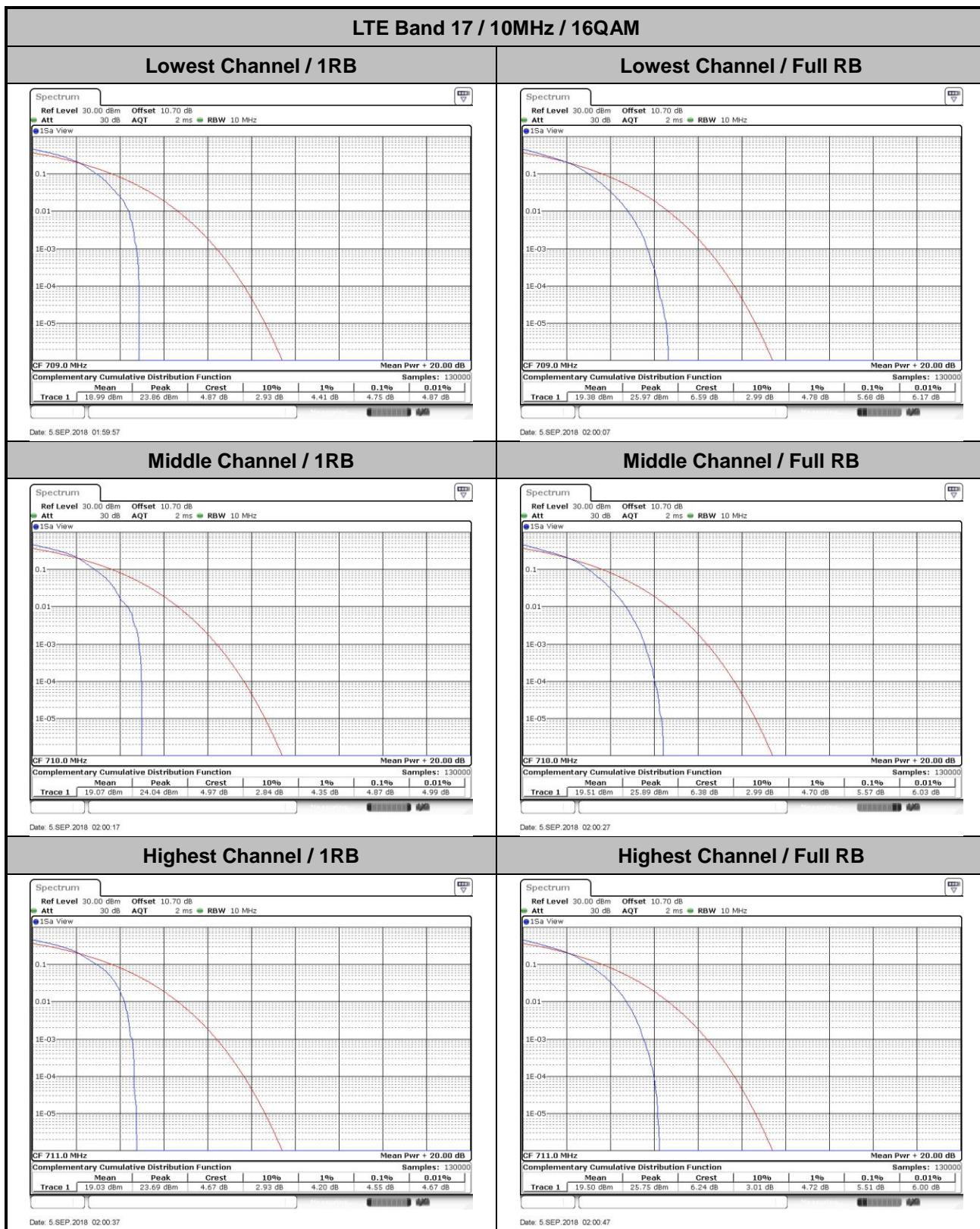


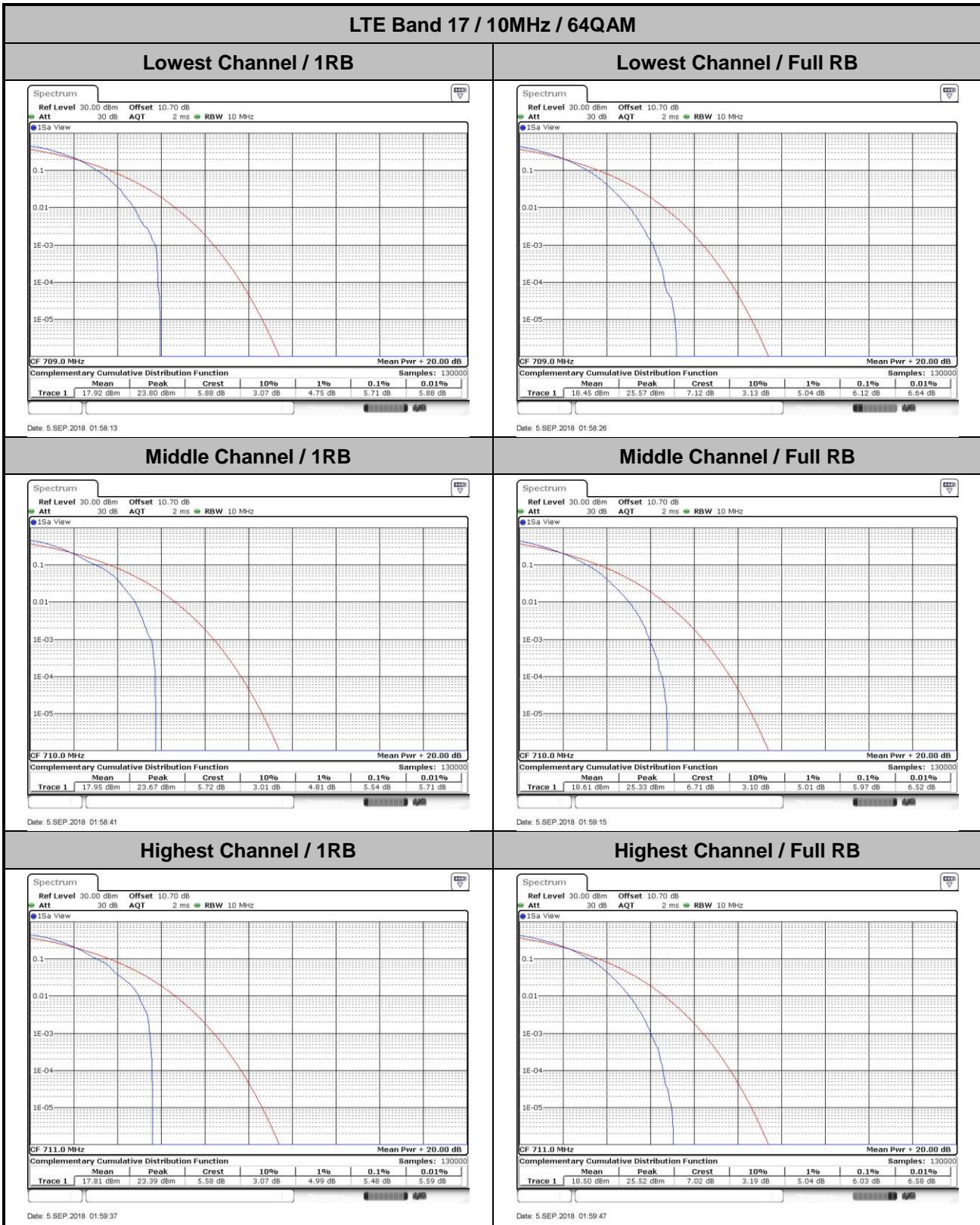
LTE Band 17

Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.86	4.7	4.75	5.68	PASS
Middle CH	3.74	4.72	4.87	5.57	
Highest CH	3.62	4.67	4.55	5.51	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.71	6.12	-	-	PASS
Middle CH	5.54	5.97	-	-	
Highest CH	5.48	6.03	-	-	

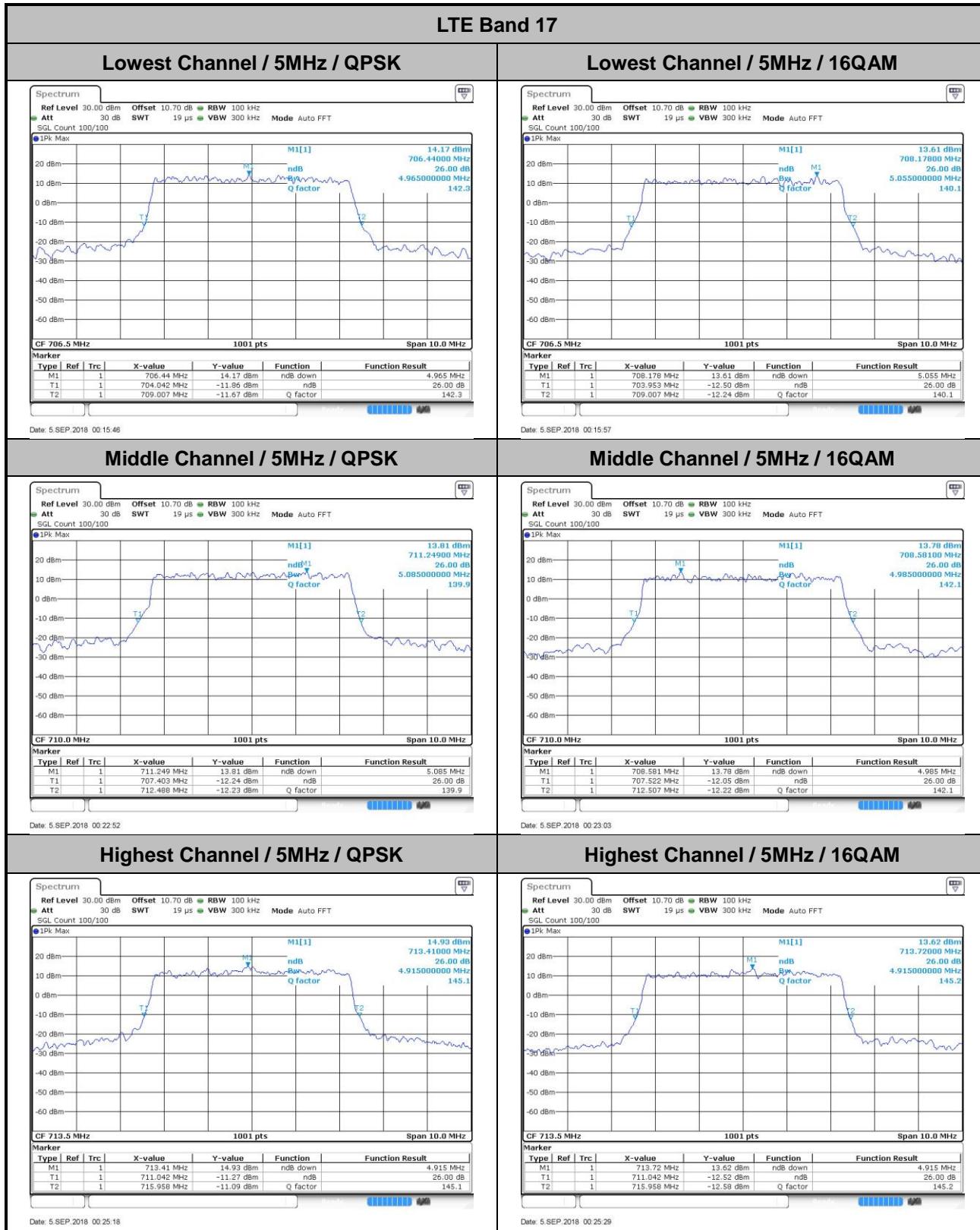


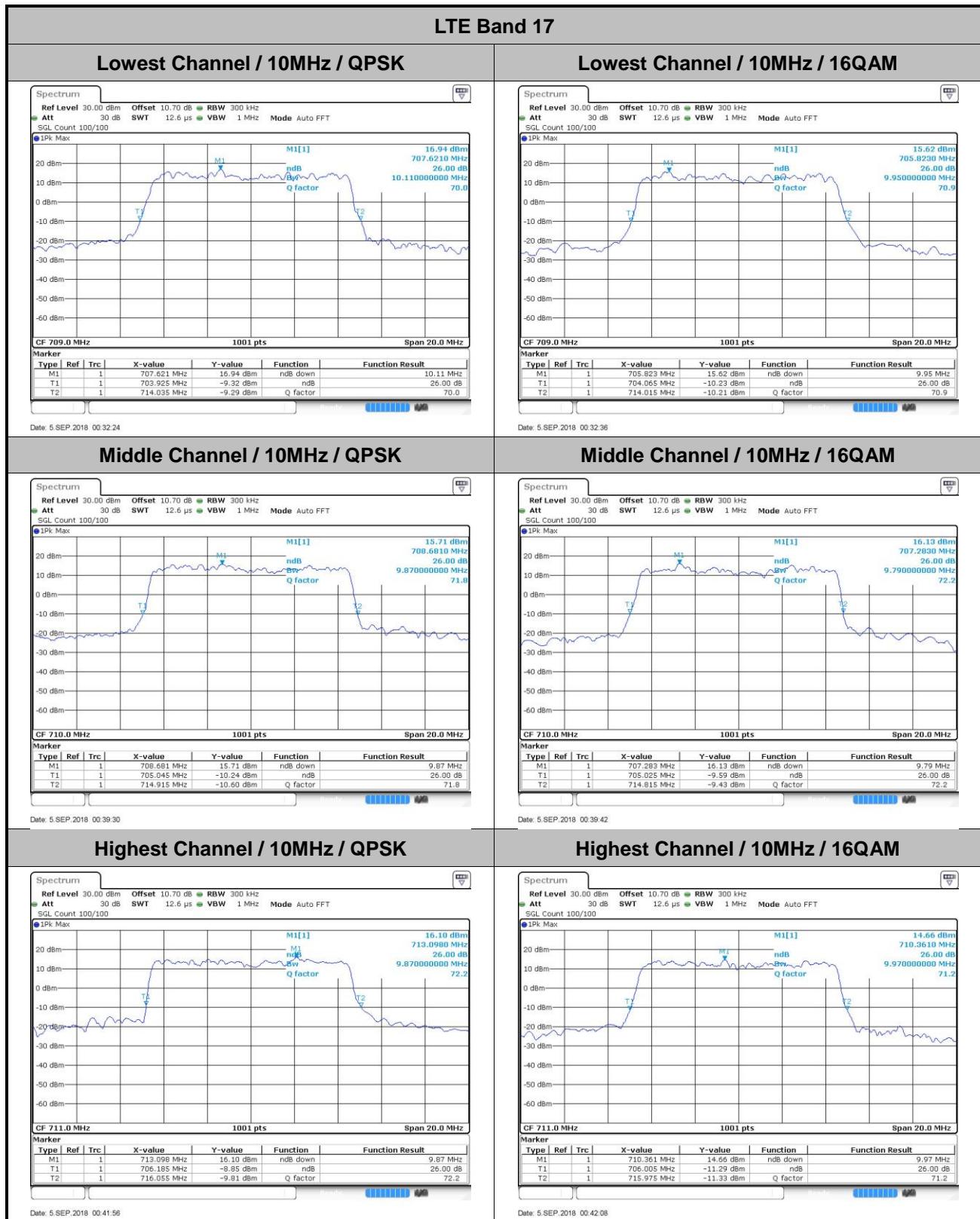


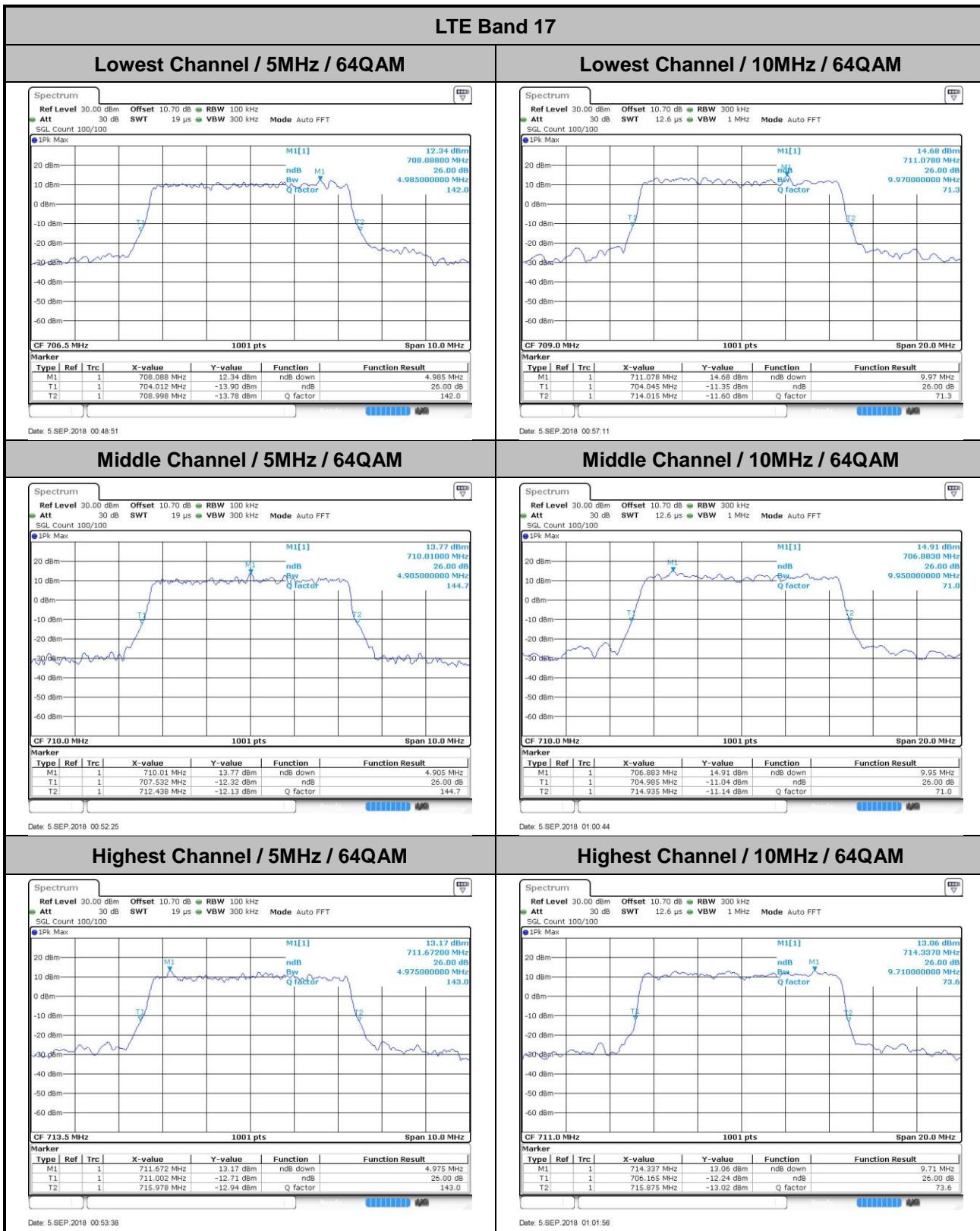


**26dB Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.97	5.06	10.11	9.95	-	-	-	-
Middle CH	-	-	-	-	5.09	4.99	9.87	9.79	-	-	-	-
Highest CH	-	-	-	-	4.92	4.92	9.87	9.97	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.99	-	9.97	-	-	-	-	-
Middle CH	-	-	-	-	4.91	-	9.95	-	-	-	-	-
Highest CH	-	-	-	-	4.98	-	9.71	-	-	-	-	-

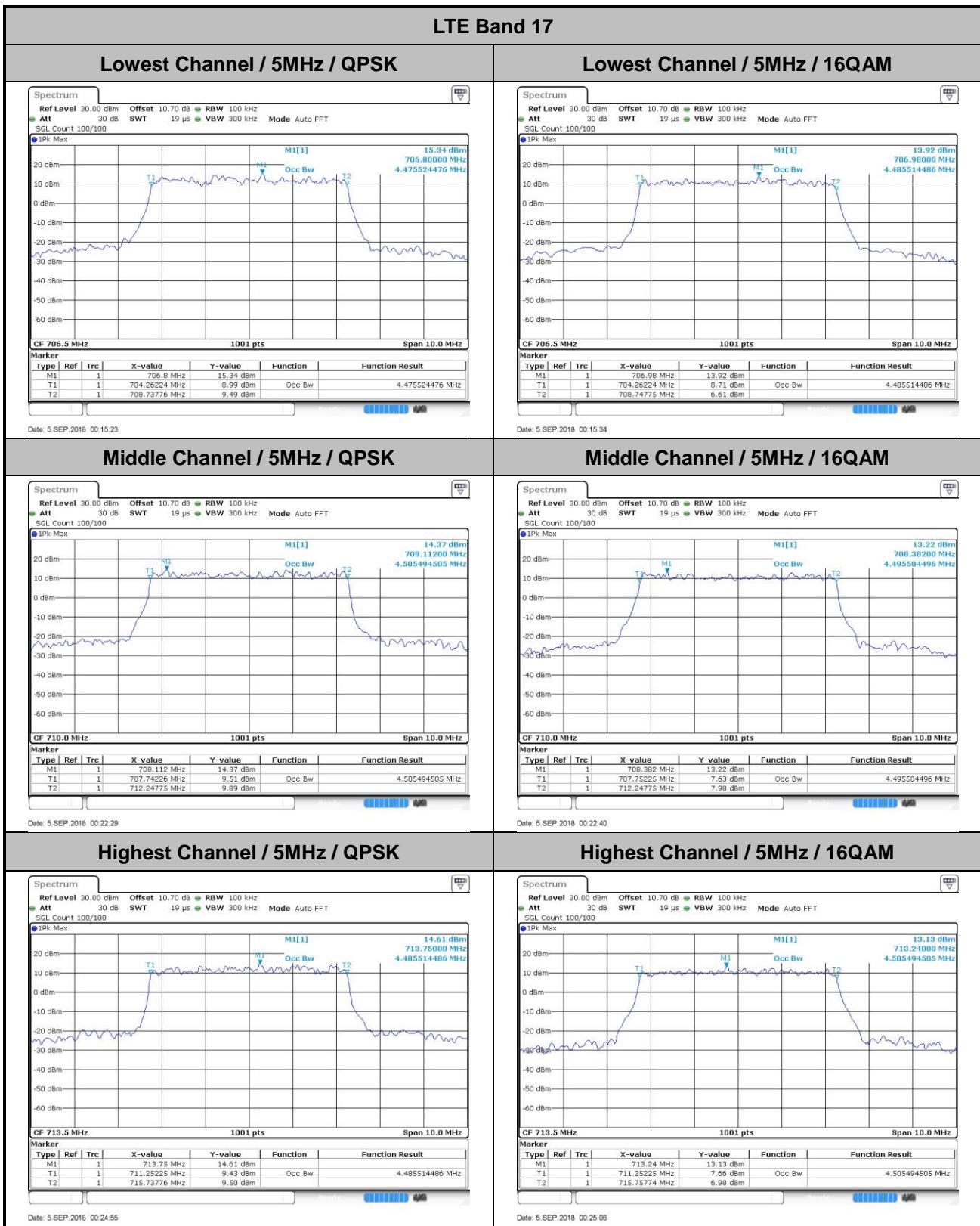


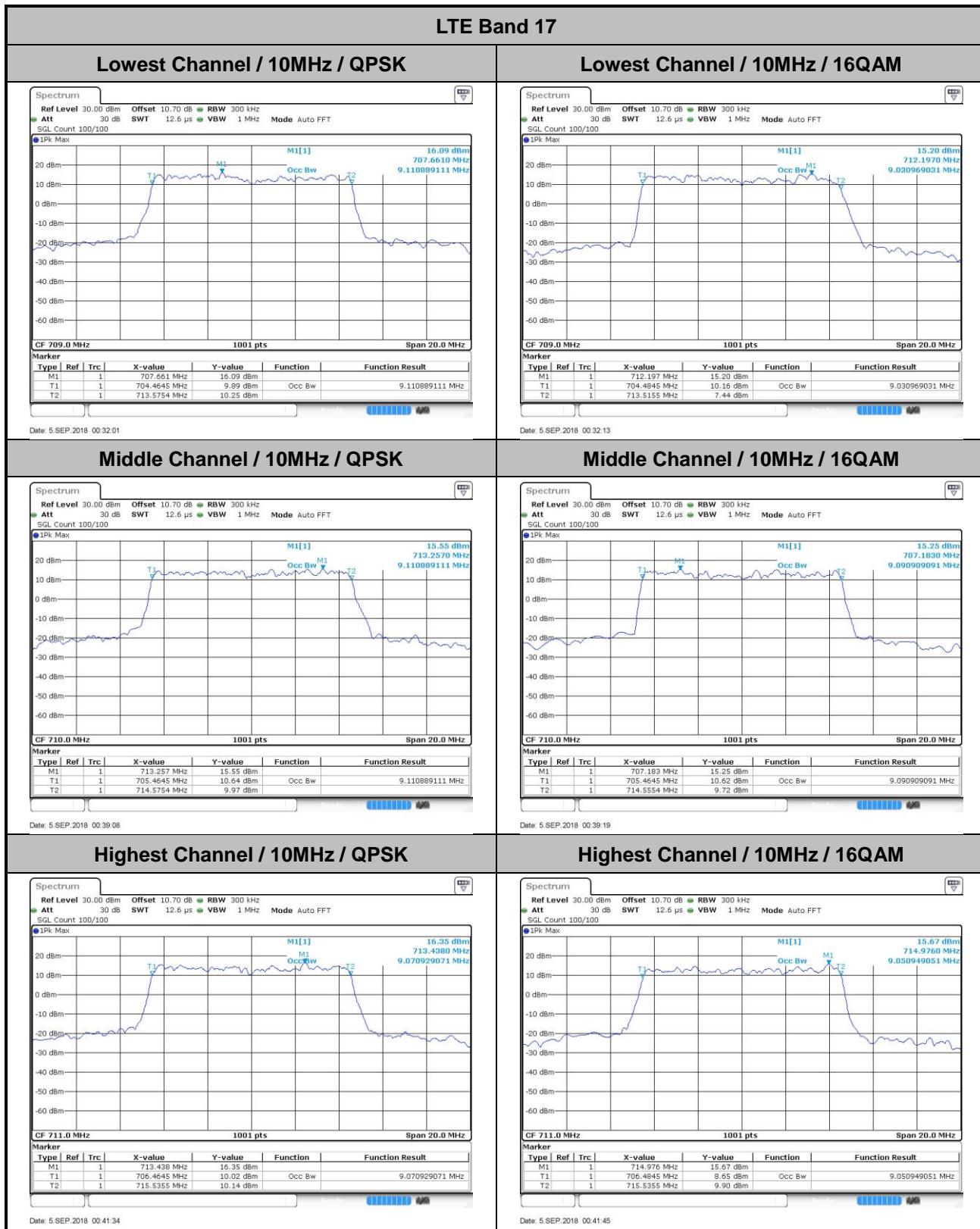


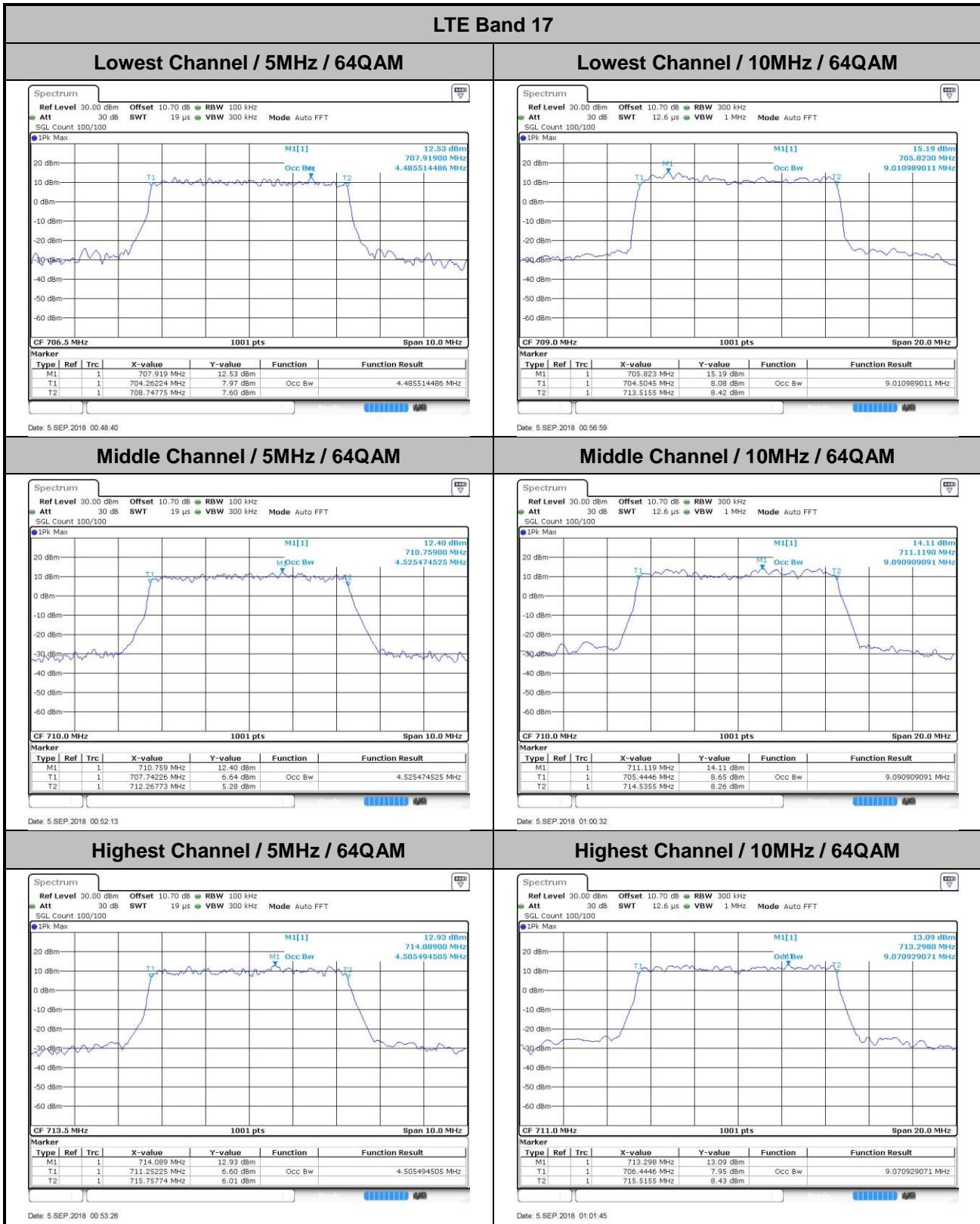


**Occupied Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.48	4.49	9.11	9.03	-	-	-	-
Middle CH	-	-	-	-	4.51	4.5	9.11	9.09	-	-	-	-
Highest CH	-	-	-	-	4.49	4.51	9.07	9.05	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	9.01	-	-	-	-	-
Middle CH	-	-	-	-	4.53	-	9.09	-	-	-	-	-
Highest CH	-	-	-	-	4.51	-	9.07	-	-	-	-	-









Conducted Band Edge

