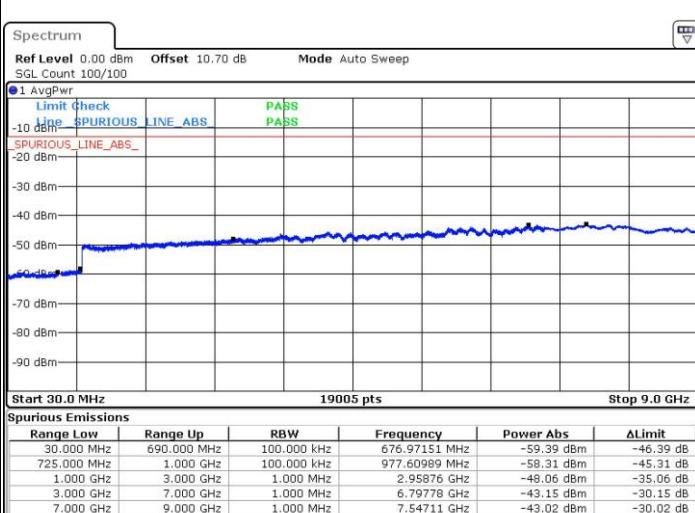
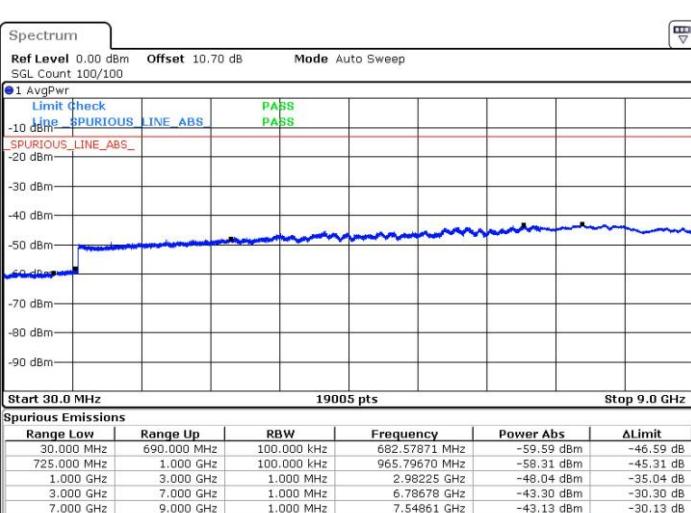




LTE Band 12 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



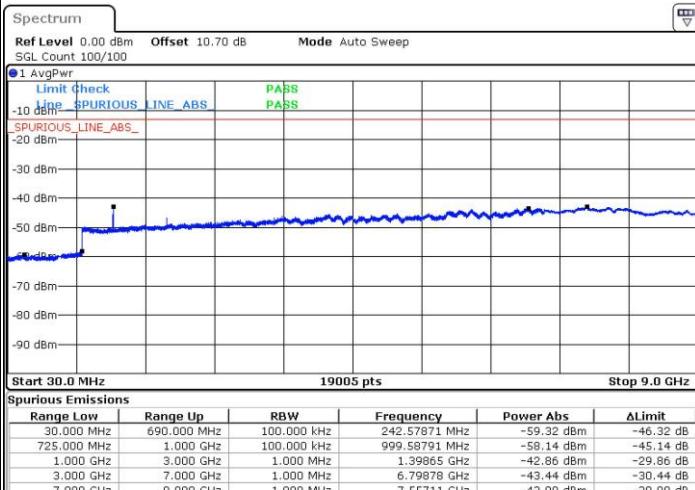
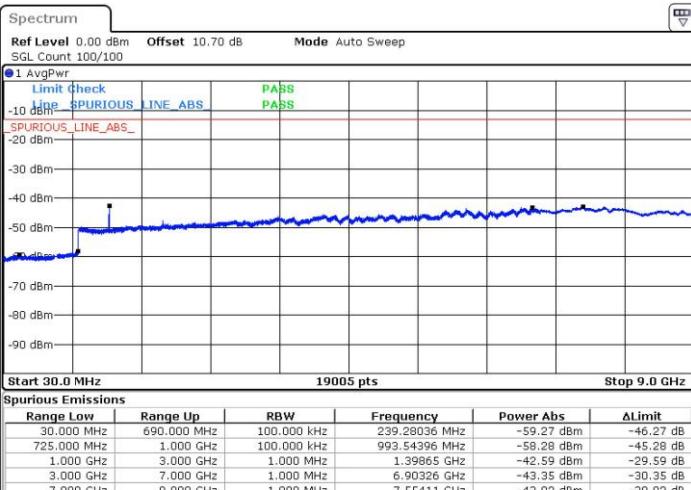
Date: 5.SEP.2018 01:54:14

Date: 5.SEP.2018 01:55:04

LTE Band 12 / 3MHz

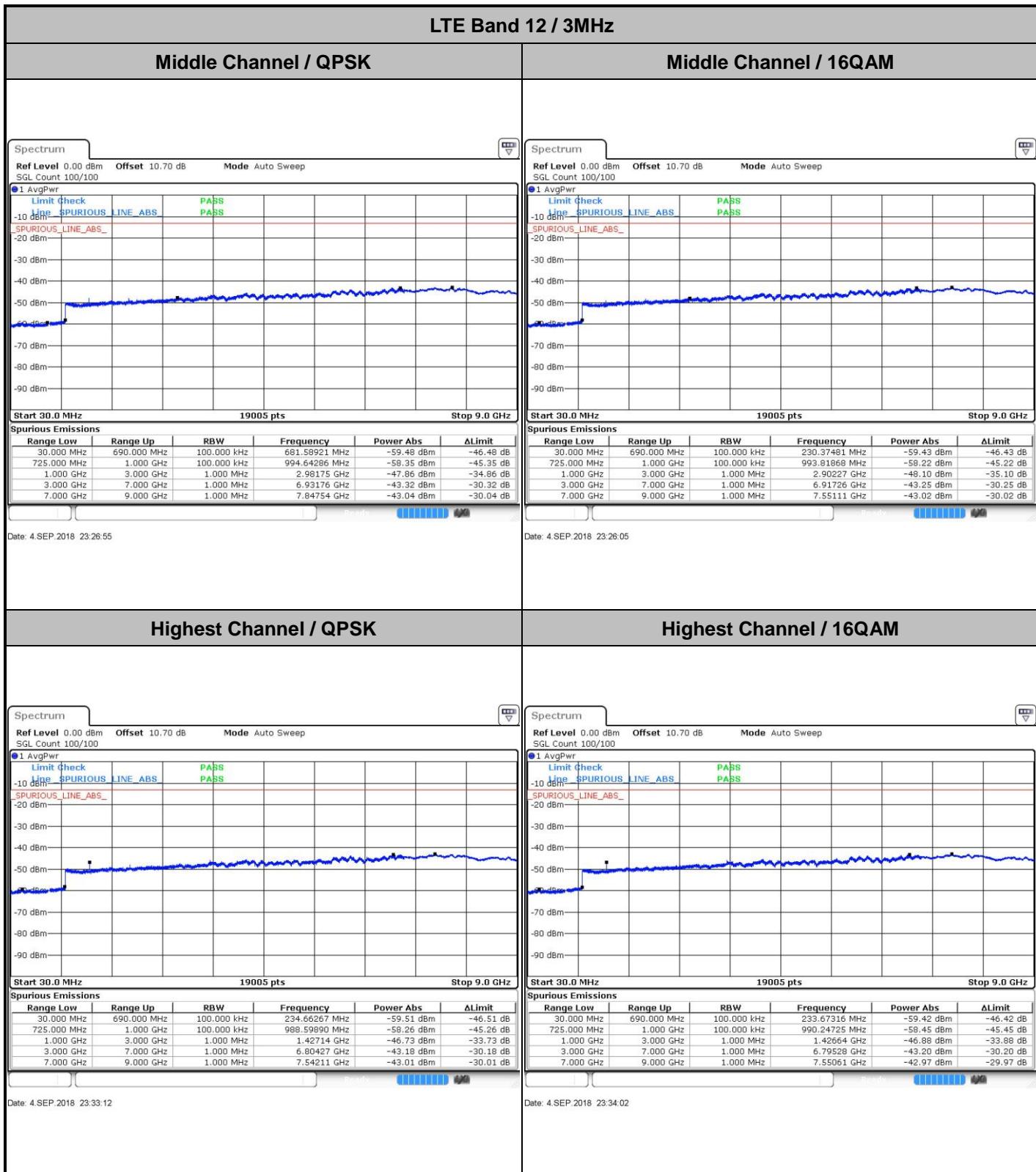
Lowest Channel / QPSK

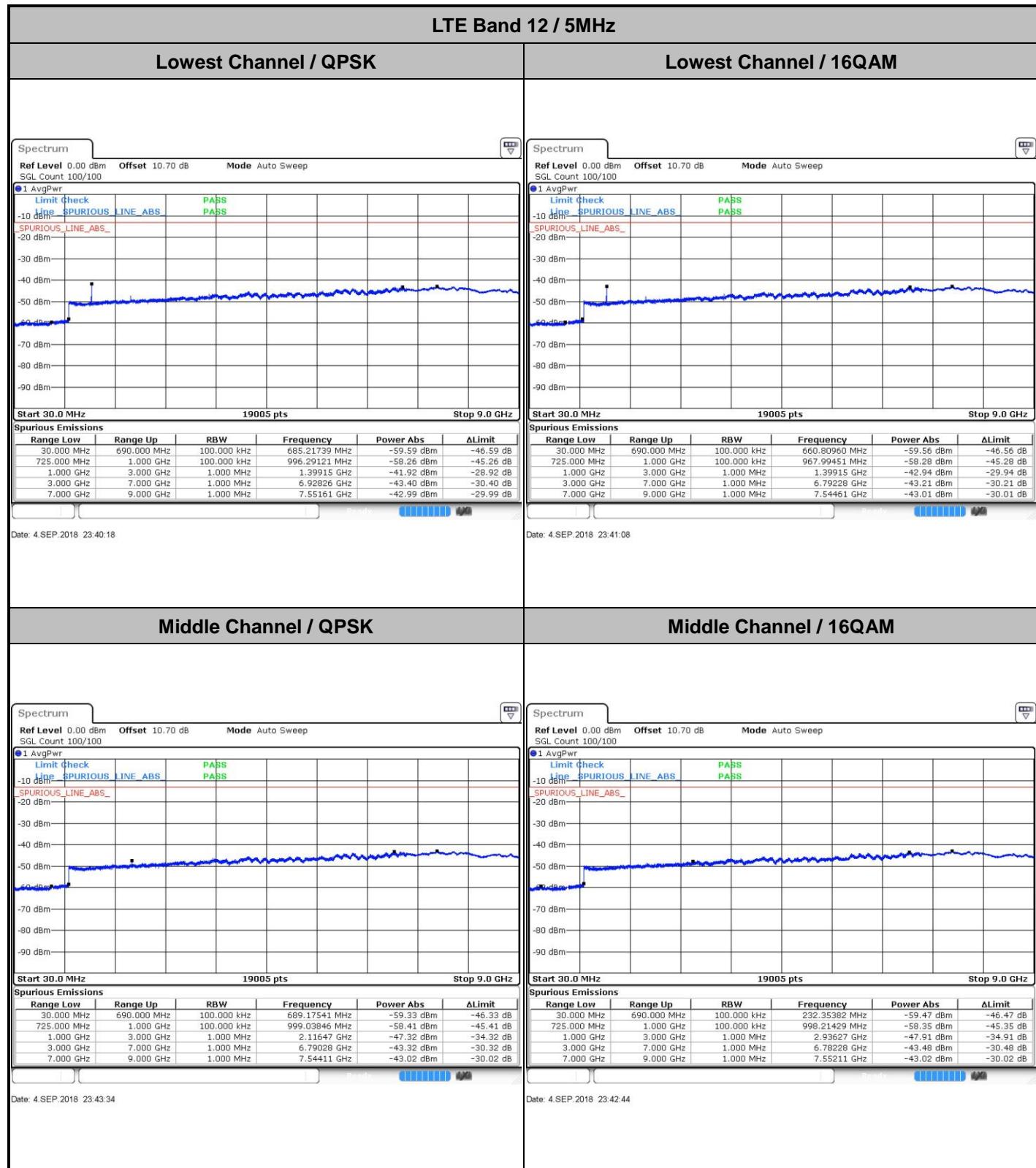
Lowest Channel / 16QAM



Date: 4.SEP.2018 23:23:39

Date: 4.SEP.2018 23:24:29



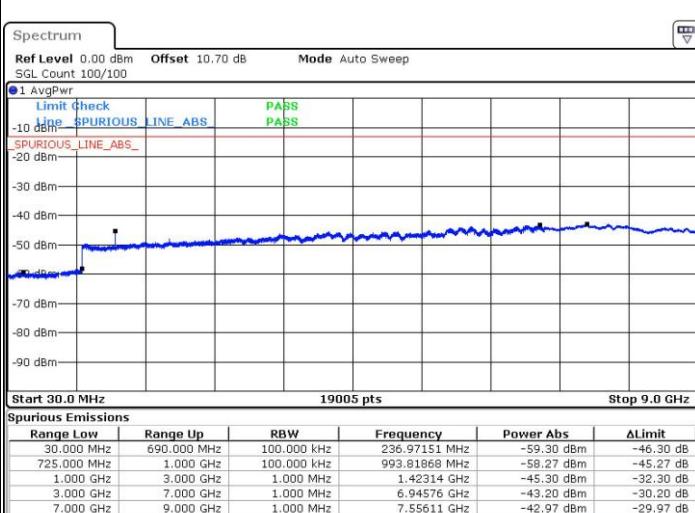
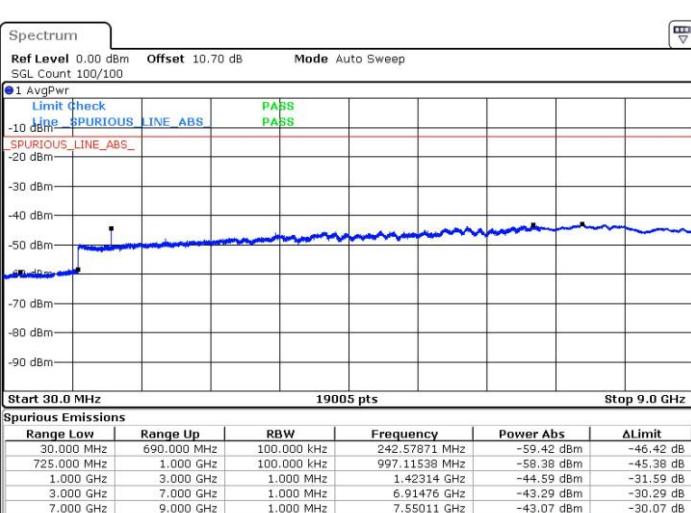




LTE Band 12 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



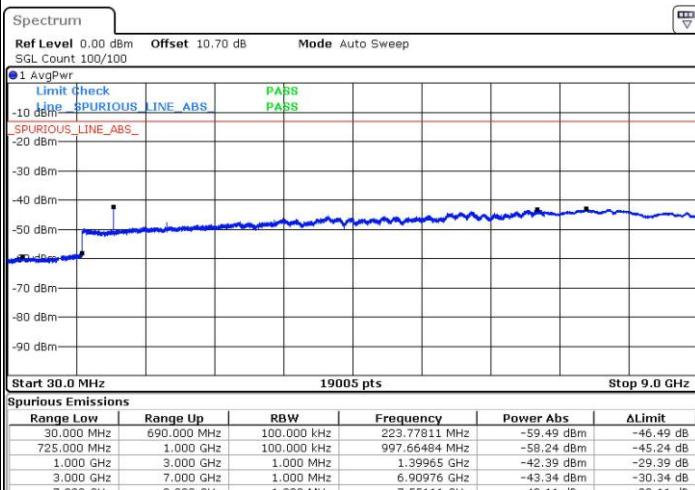
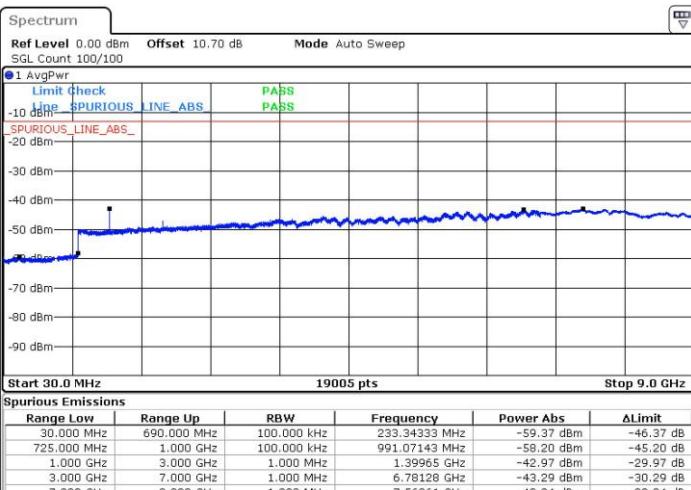
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Date: 4.SEP.2018 23:49:49

LTE Band 12 / 10MHz

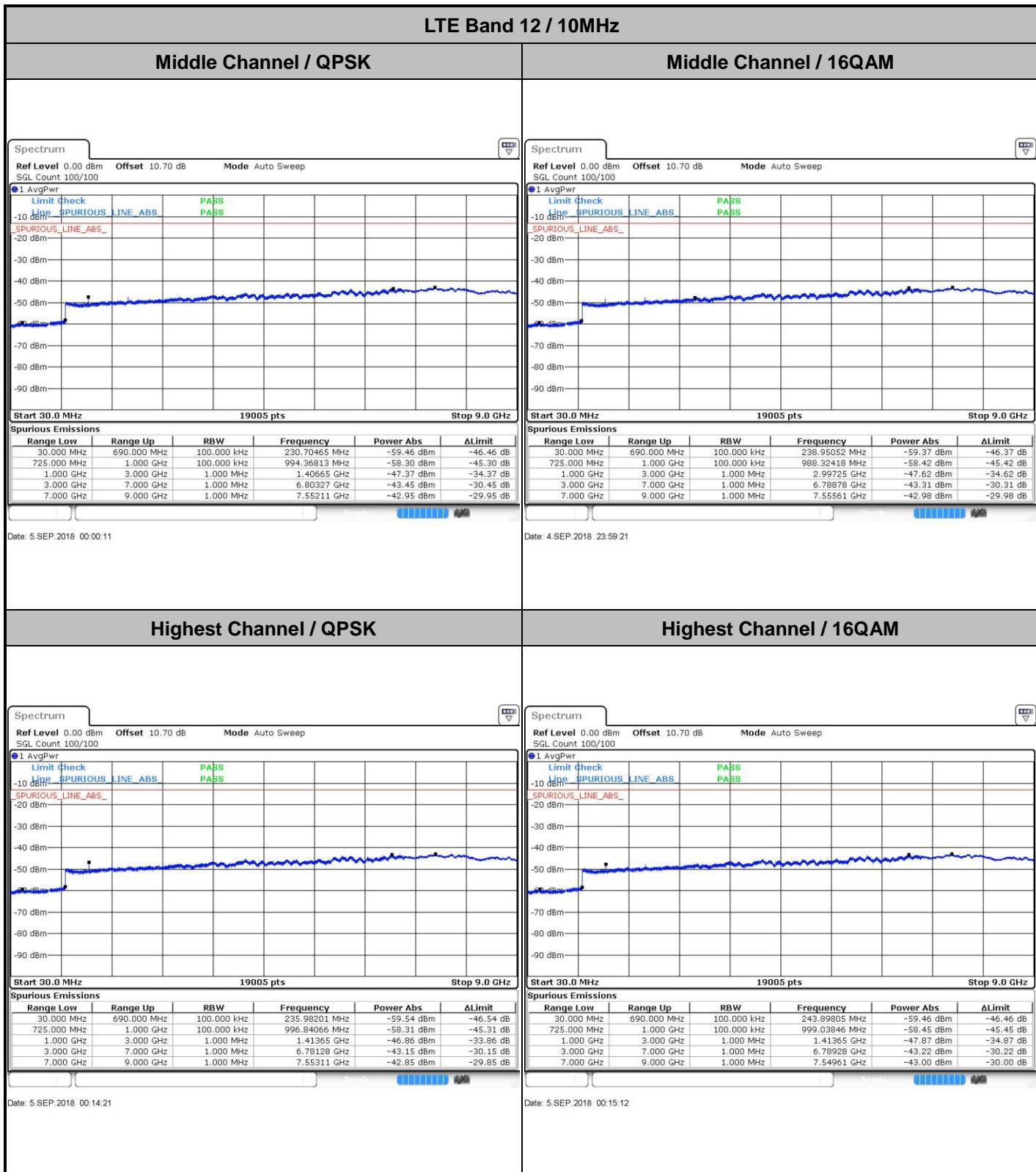
Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 4.SEP.2018 23:56:55

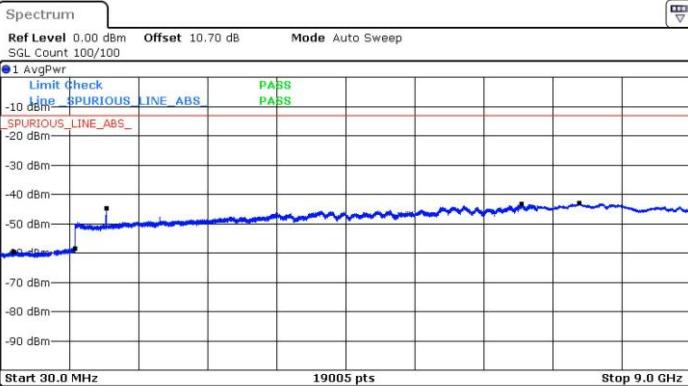
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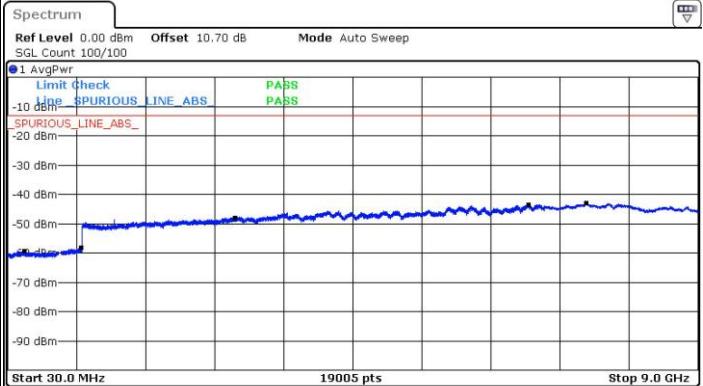
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



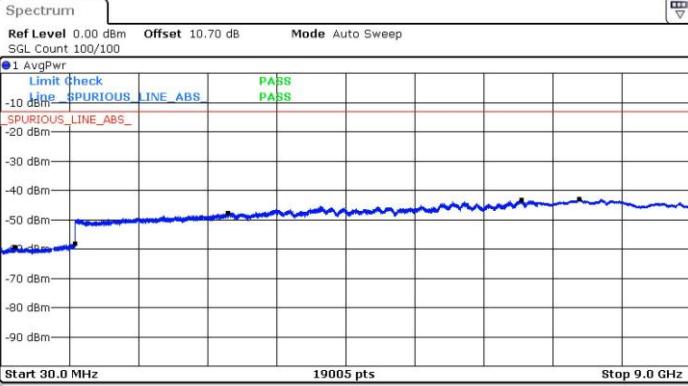
Date: 5.SEP.2018 01:33:39

Middle Channel / 64QAM

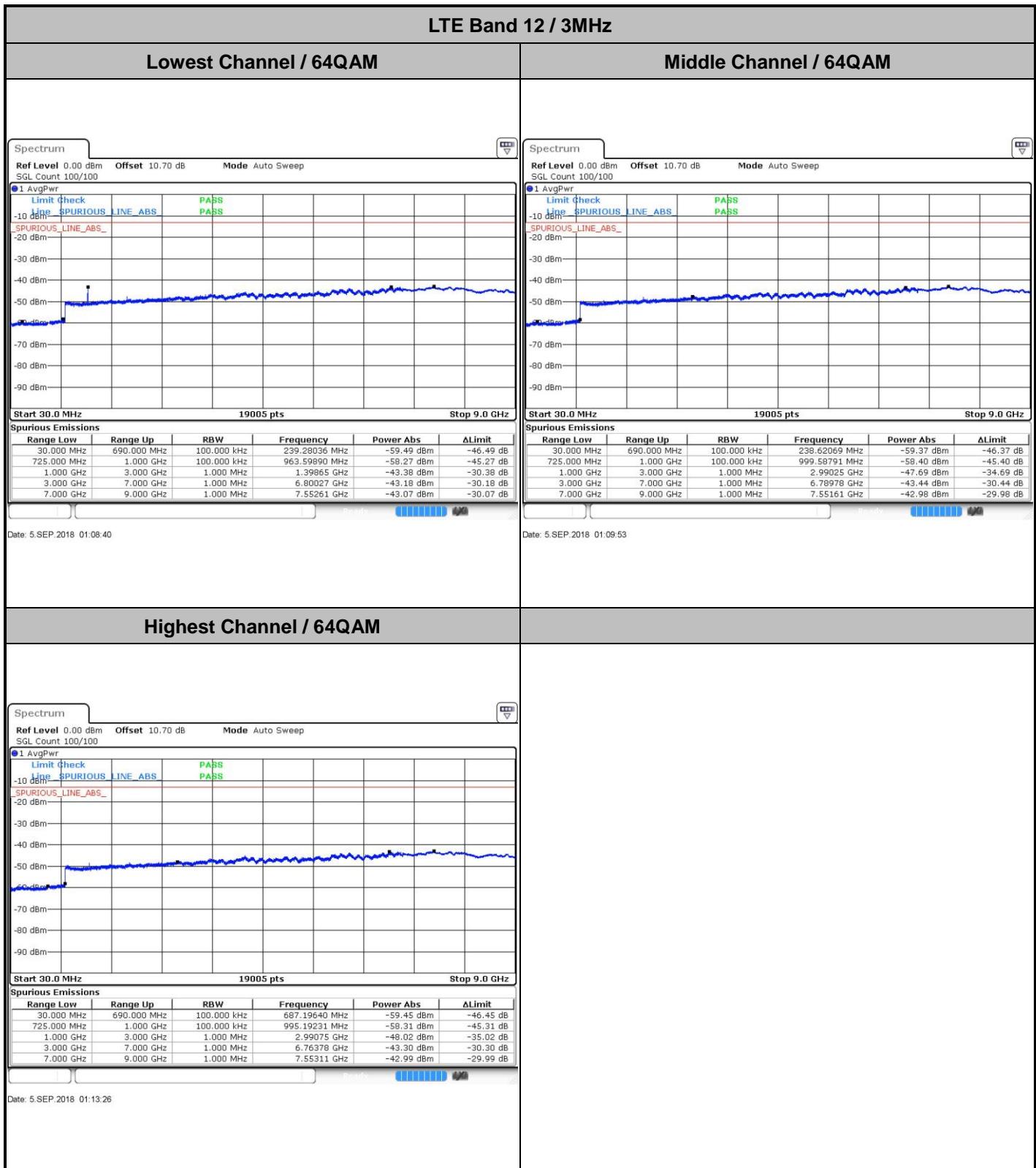


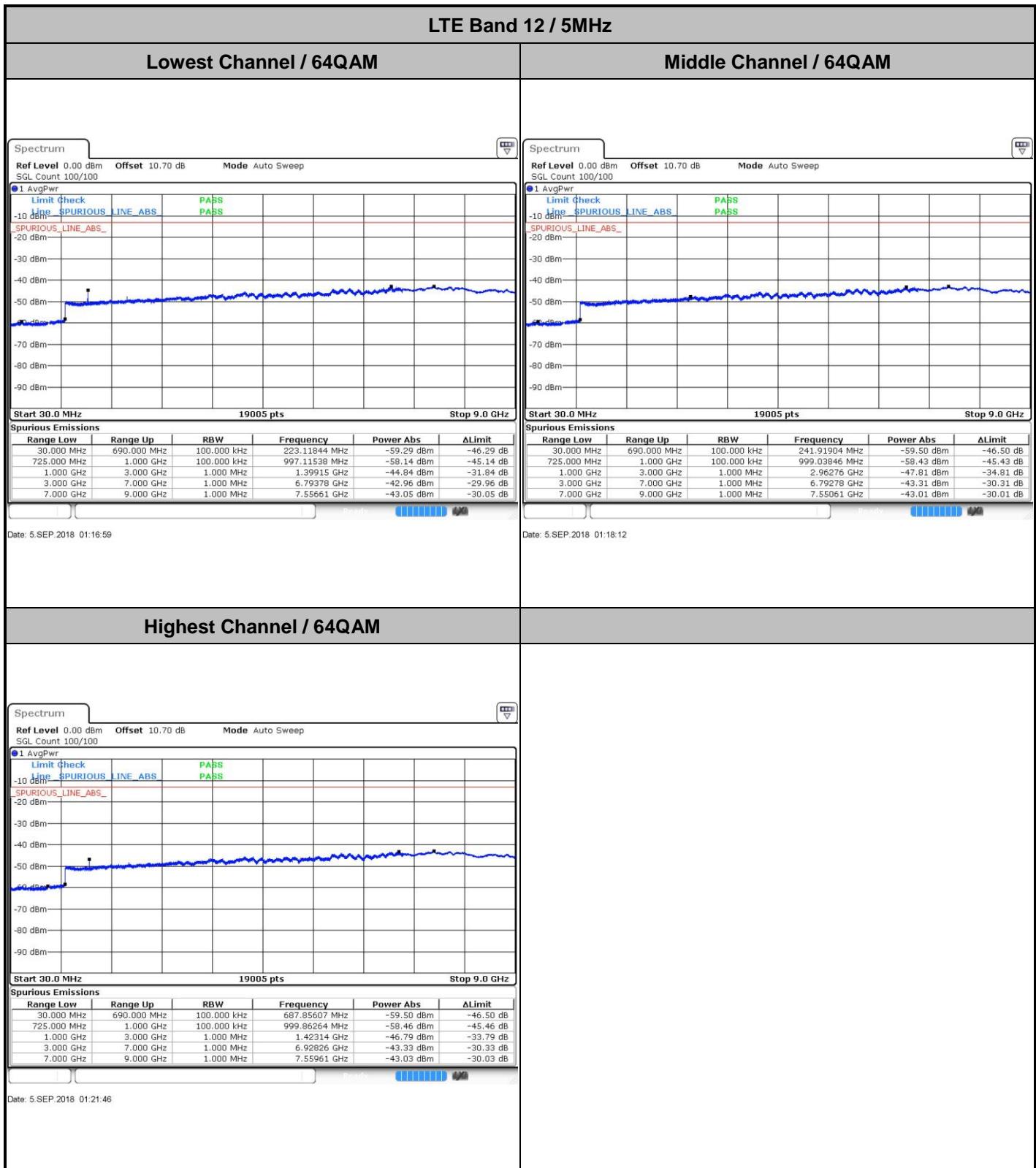
Date: 5.SEP.2018 01:34:52

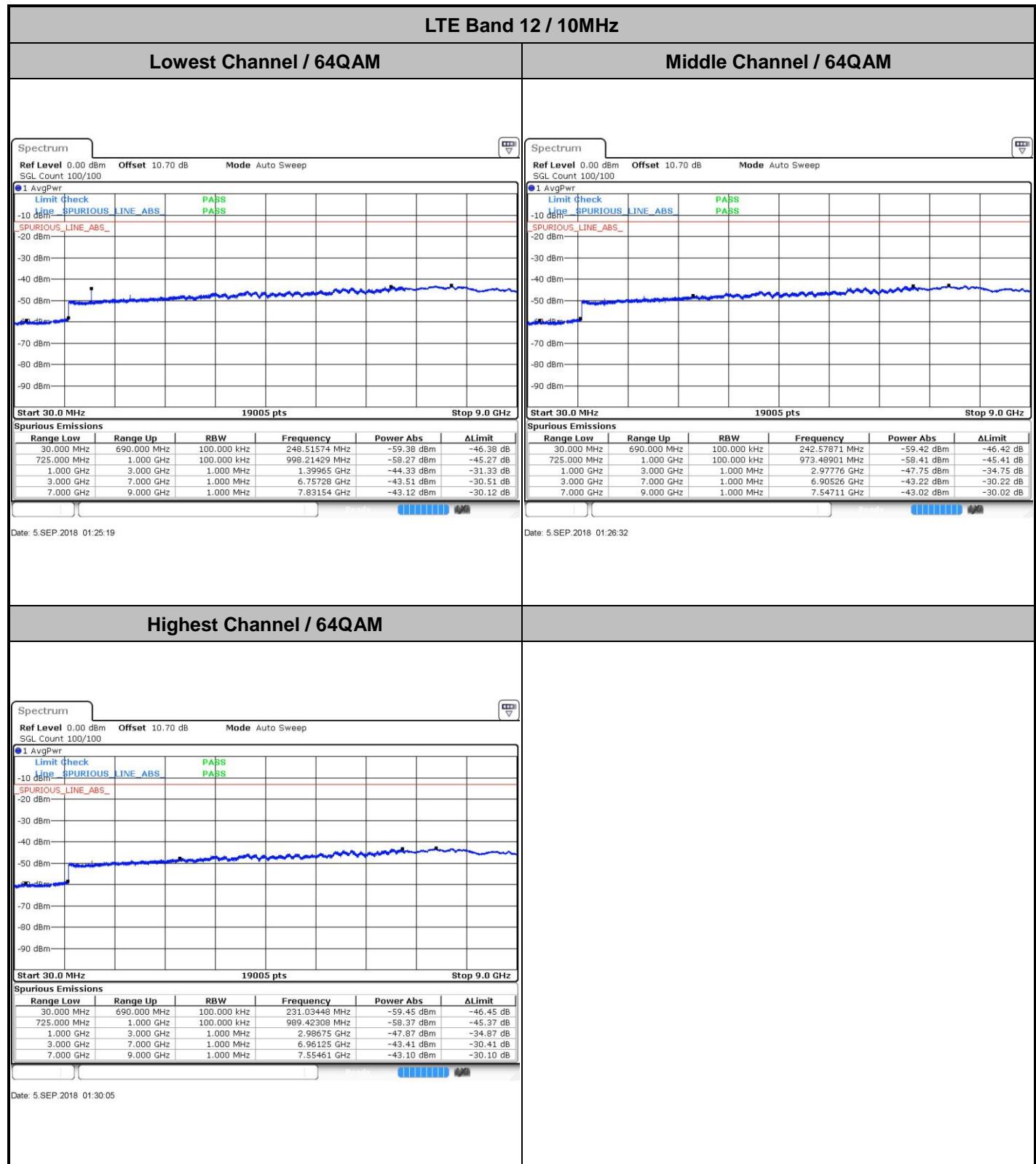
Highest Channel / 64QAM



Date: 5.SEP.2018 01:38:25









Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0030	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0107	
0	Normal Voltage	0.0098	
-10	Normal Voltage	0.0079	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0089	
20	Maximum Voltage	0.0093	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0025	

Note:

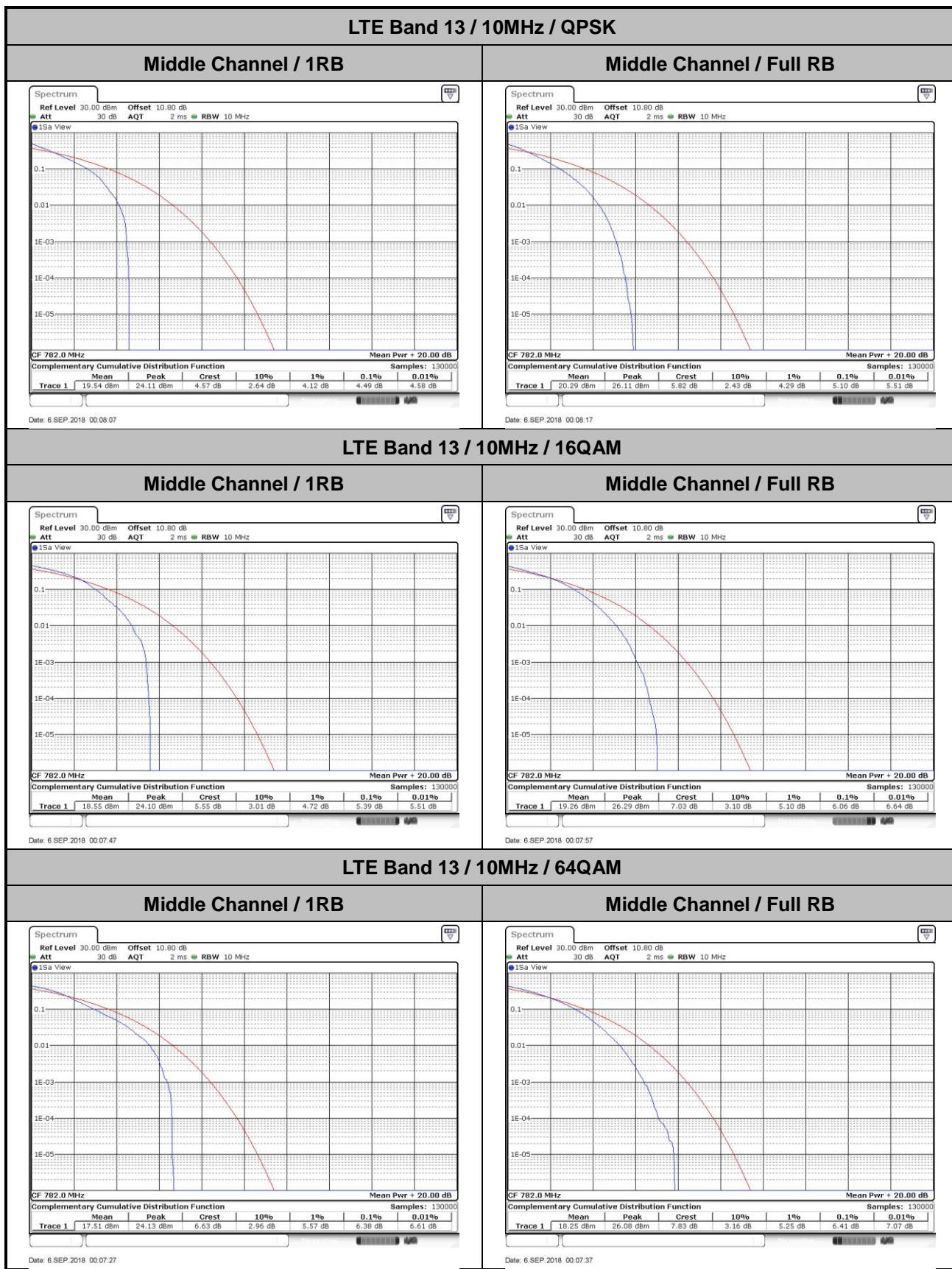
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

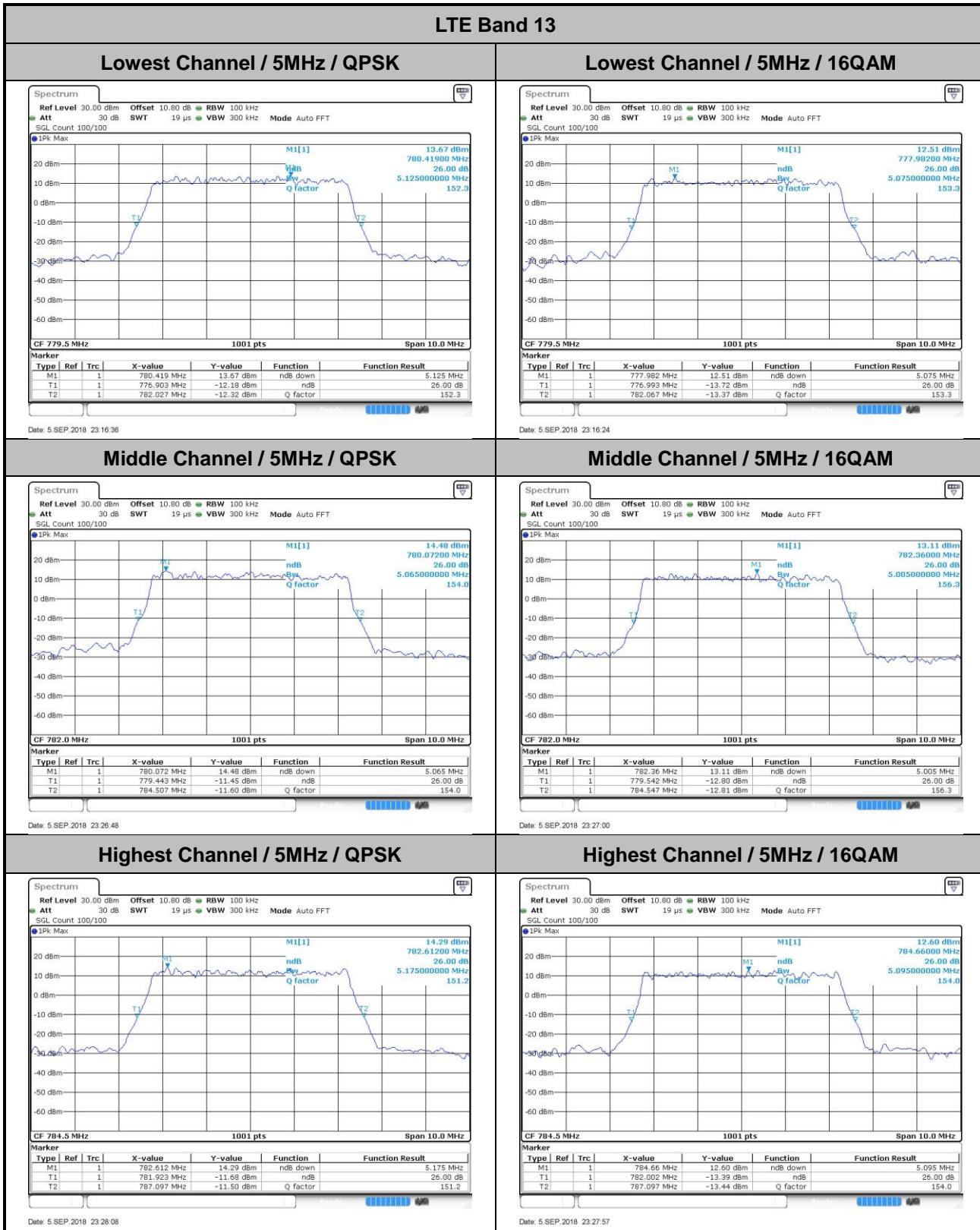
Peak-to-Average Ratio

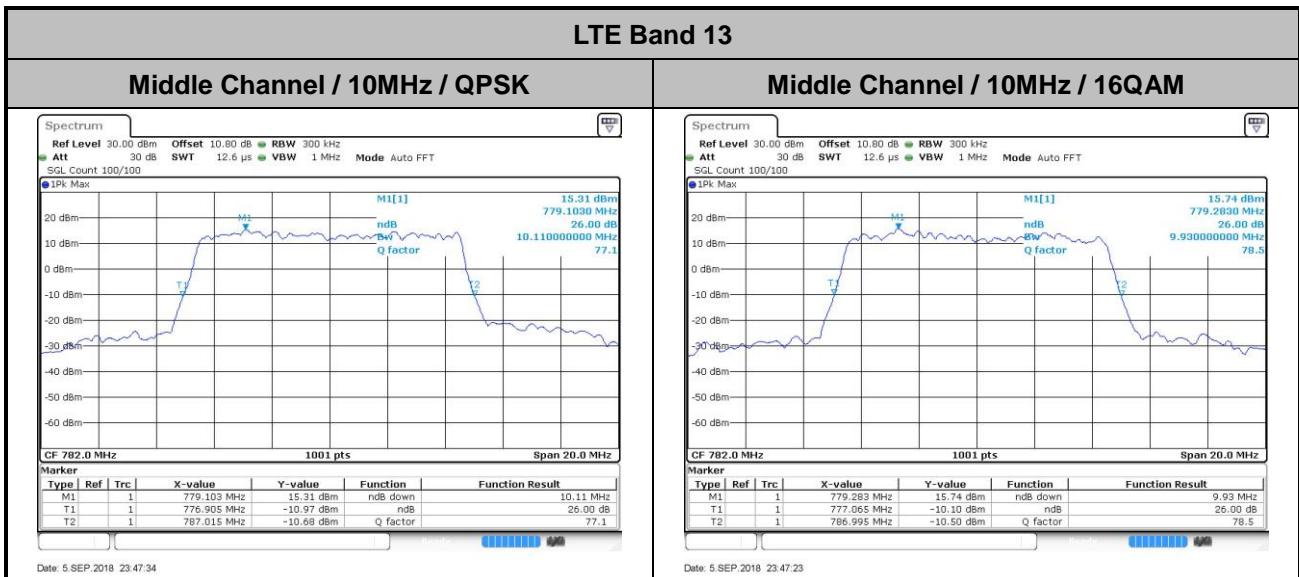
Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.49	5.10	5.39	6.06	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	6.38	6.41	-	-	
Highest CH	-	-	-	-	

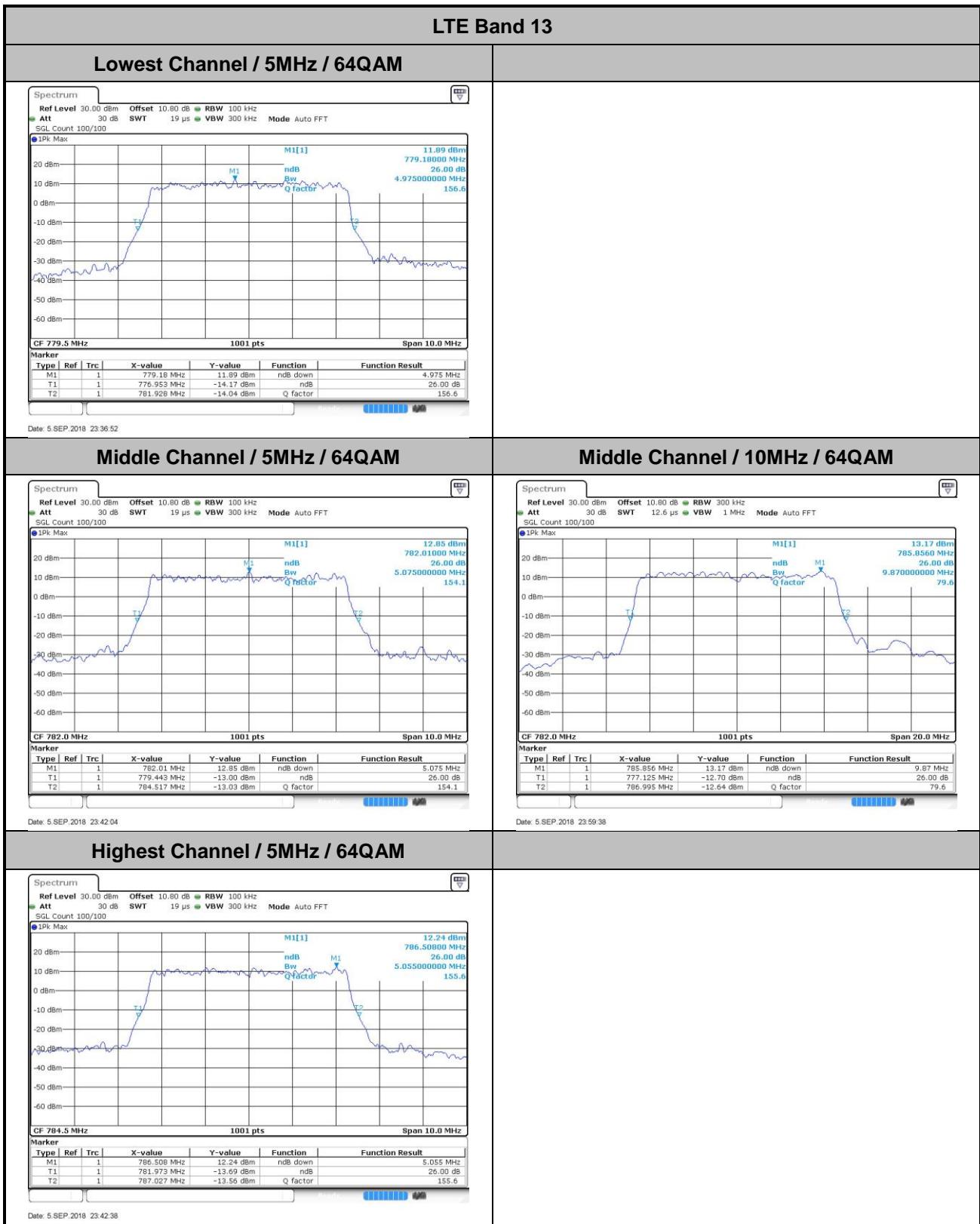


**26dB Bandwidth**

Mode	LTE Band 13 : 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	-	-	-	-	5.13	5.08	-	-	-	-	-	-
Middle CH	-	-	-	-	5.07	5.01	10.11	9.93	-	-	-	-
Highest CH	-	-	-	-	5.18	5.10	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.98	-	-	-	-	-	-	-
Middle CH	-	-	-	-	5.08	-	9.87	-	-	-	-	-
Highest CH	-	-	-	-	5.06	-	-	-	-	-	-	-

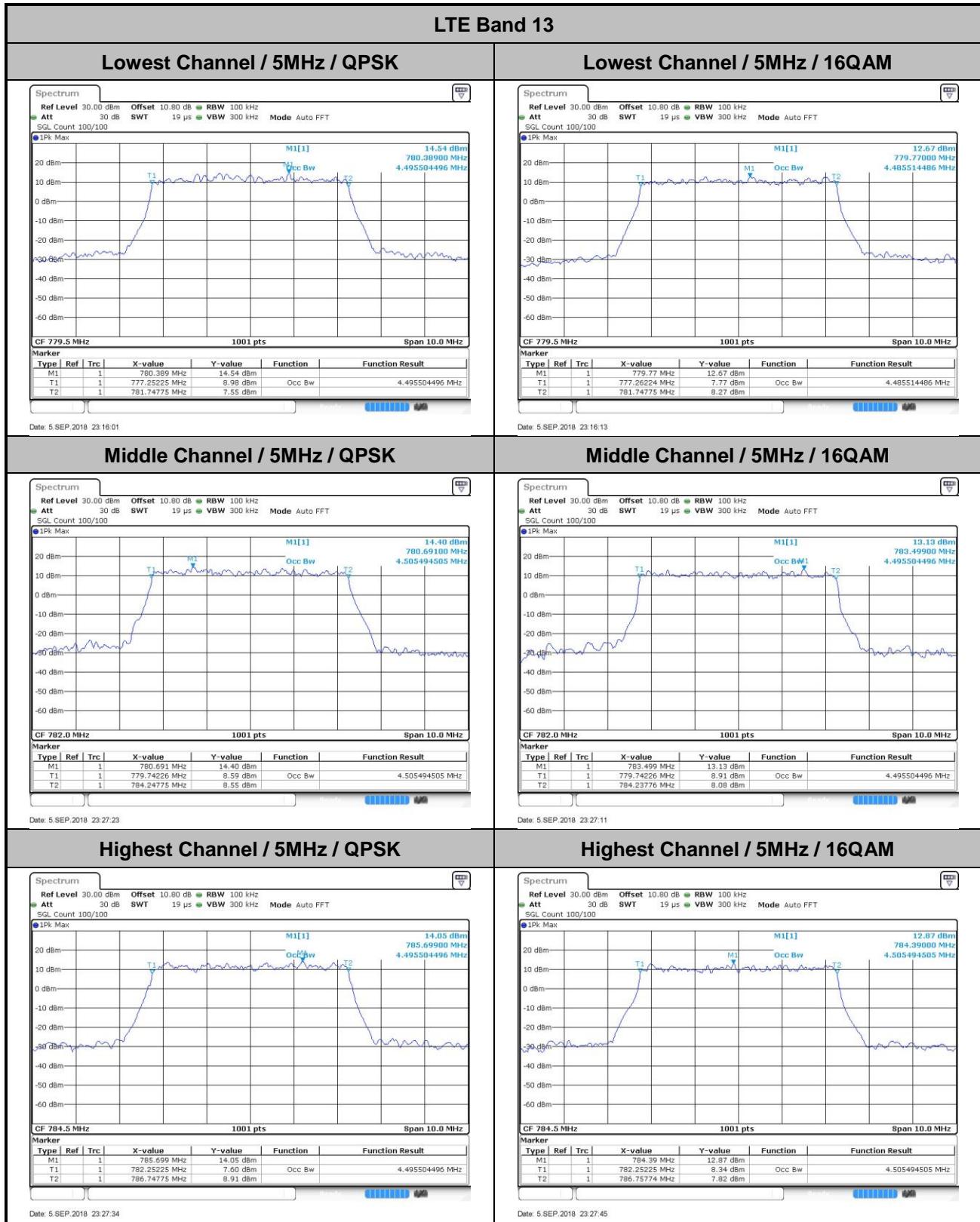


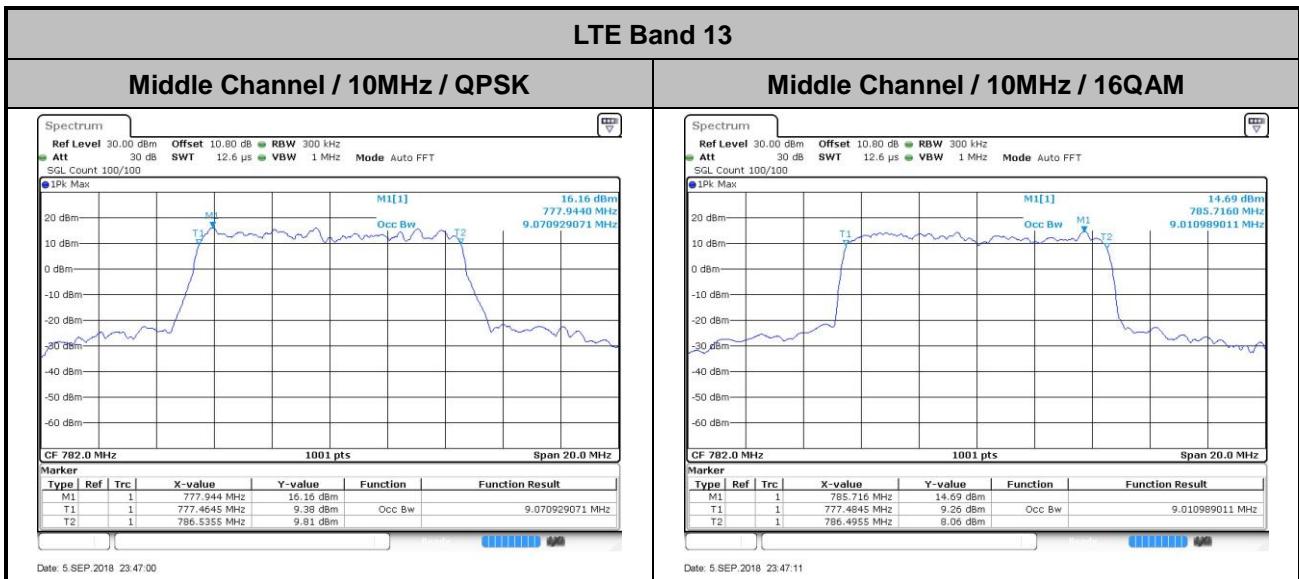


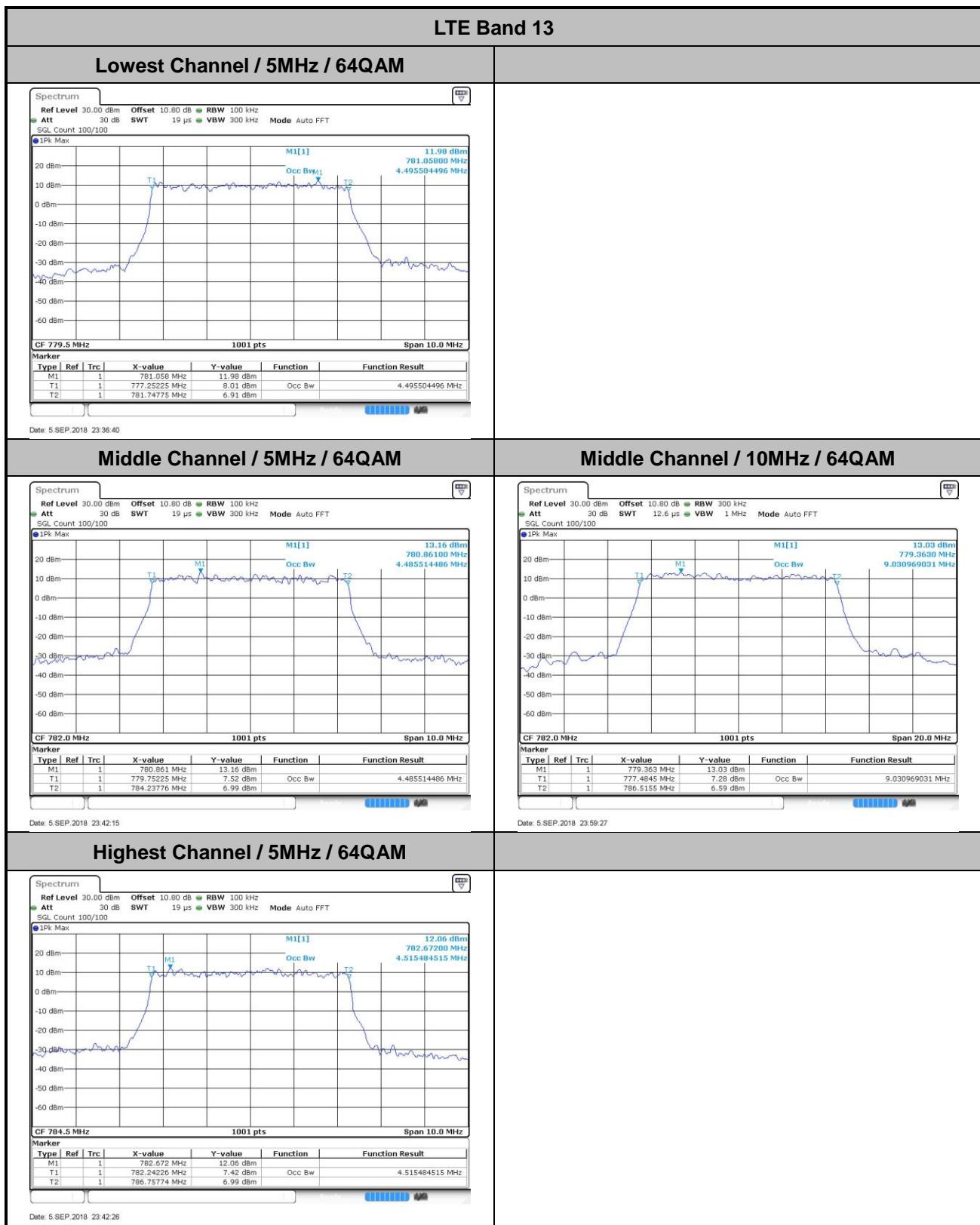


**Occupied Bandwidth**

Mode	LTE Band 13 : 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	-	-	-	-	4.5	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.51	4.5	9.07	9.01	-	-	-	-
Highest CH	-	-	-	-	4.5	4.51	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.52	-	-	-	-	-	-	-









Conducted Band Edge

