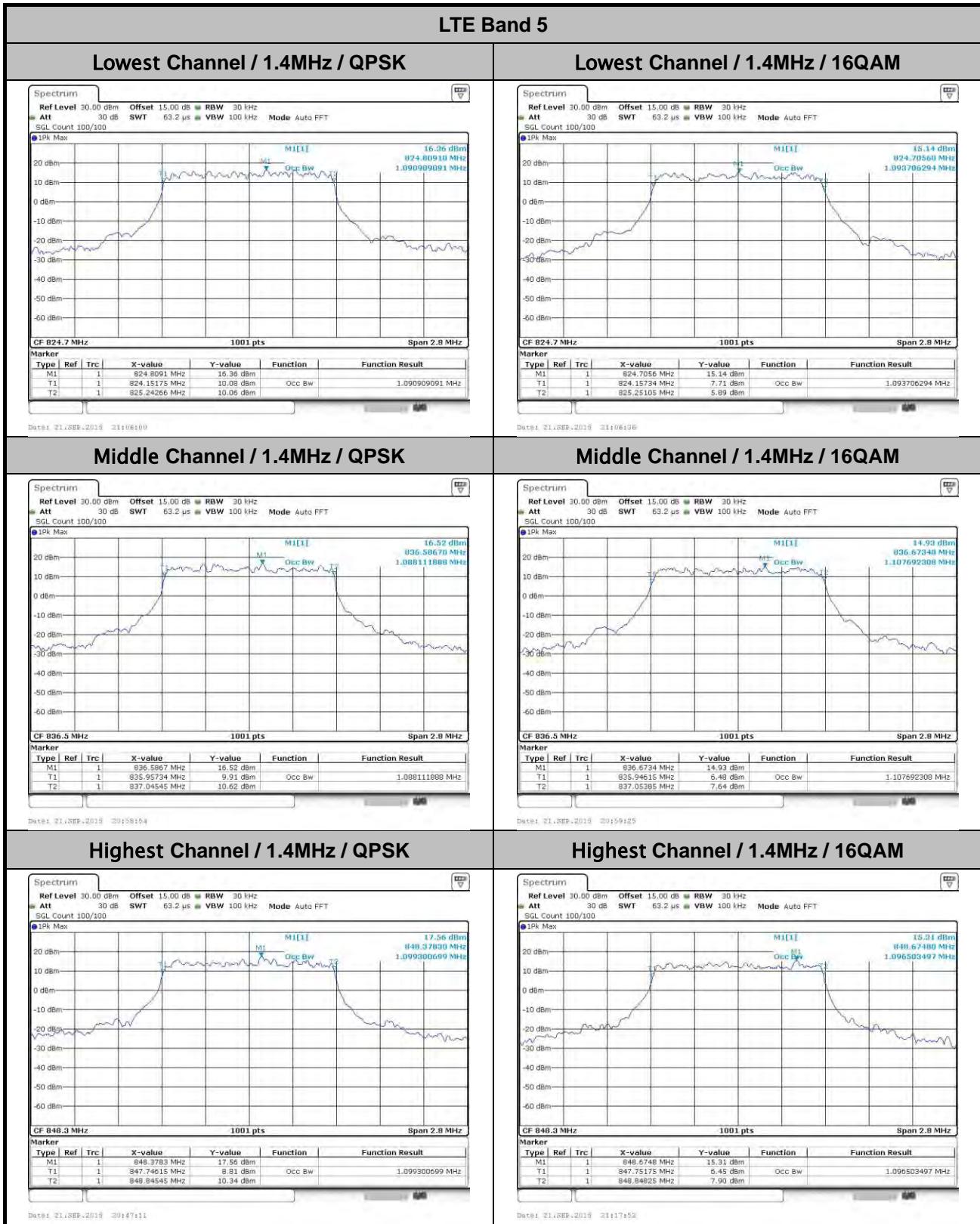
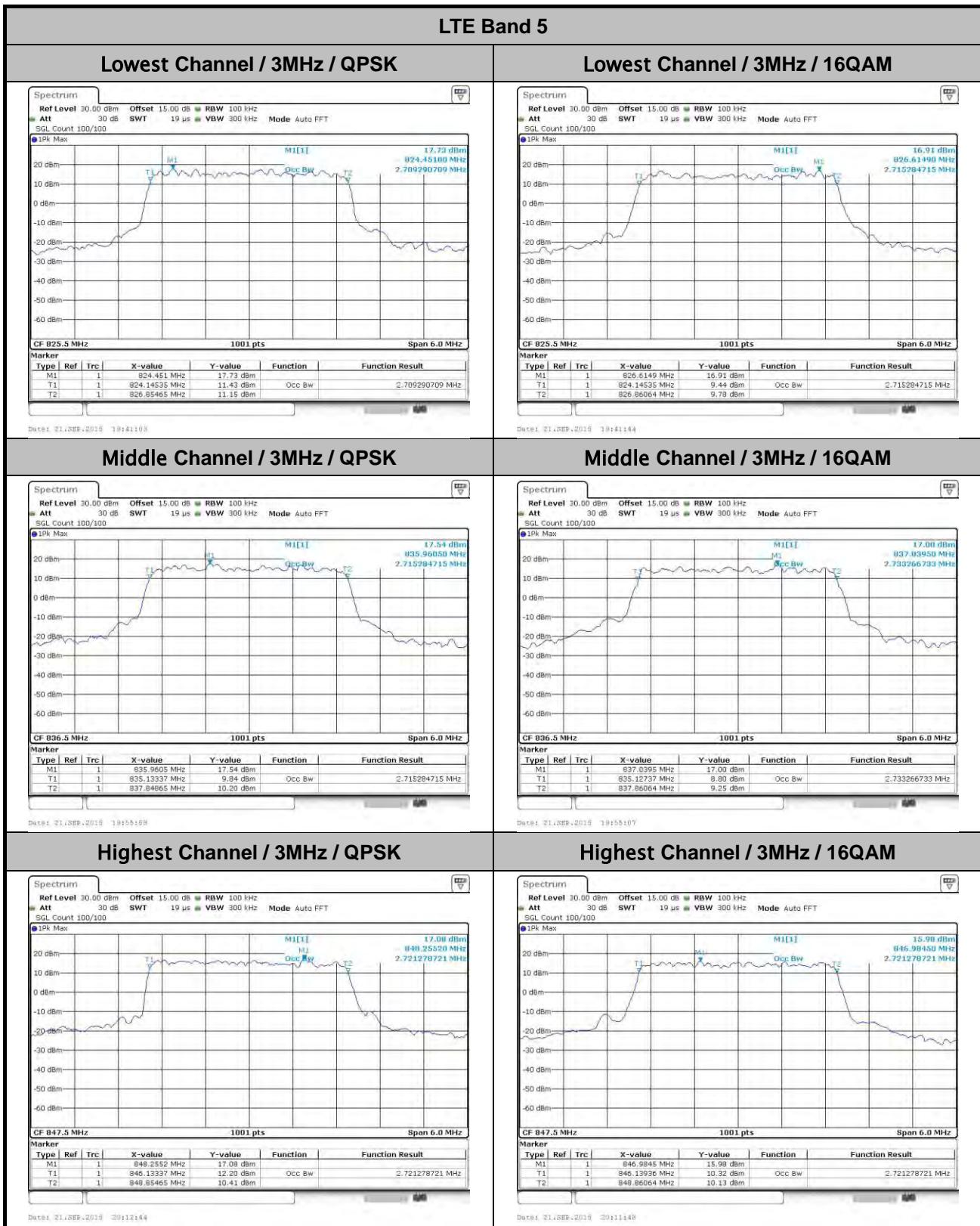
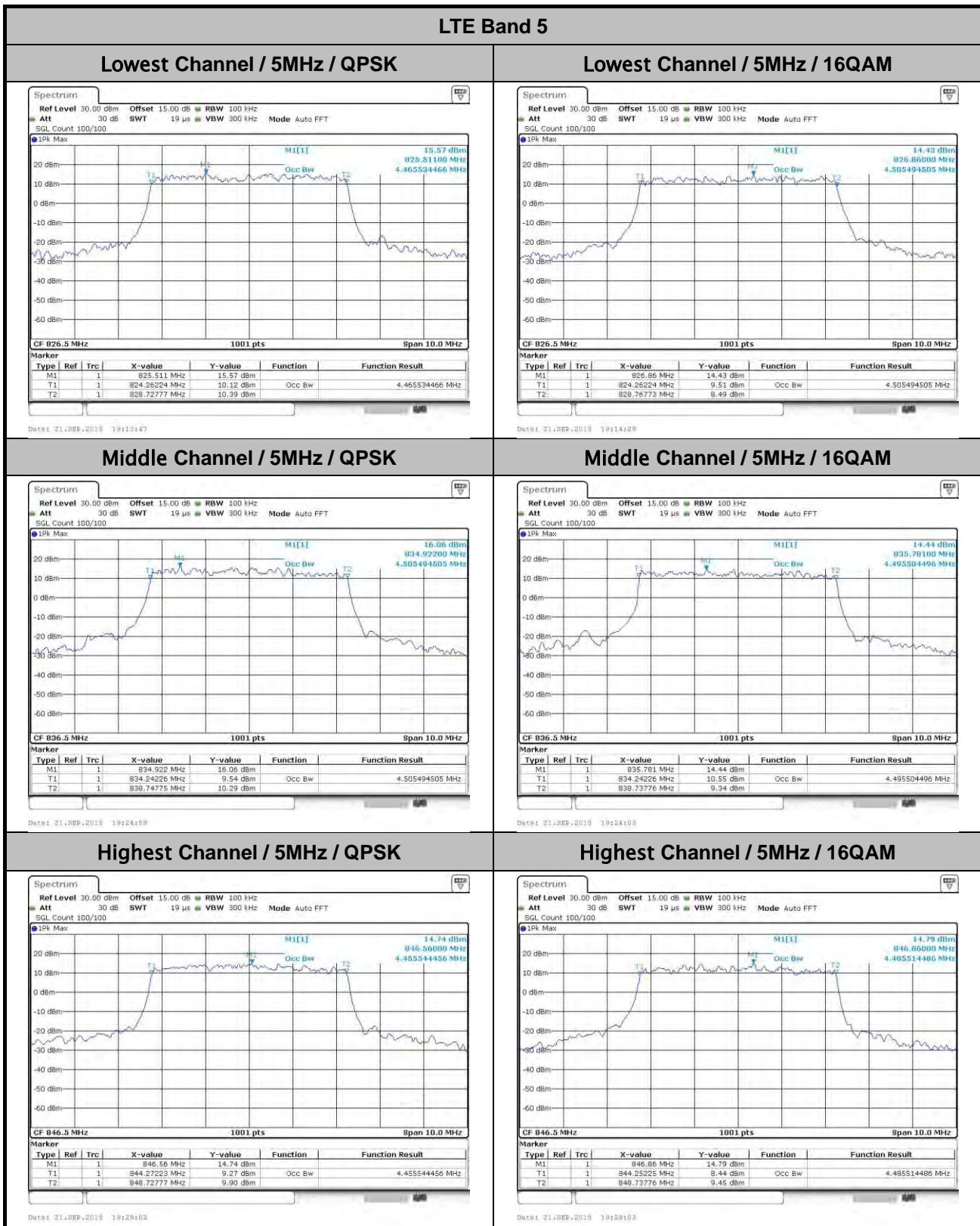


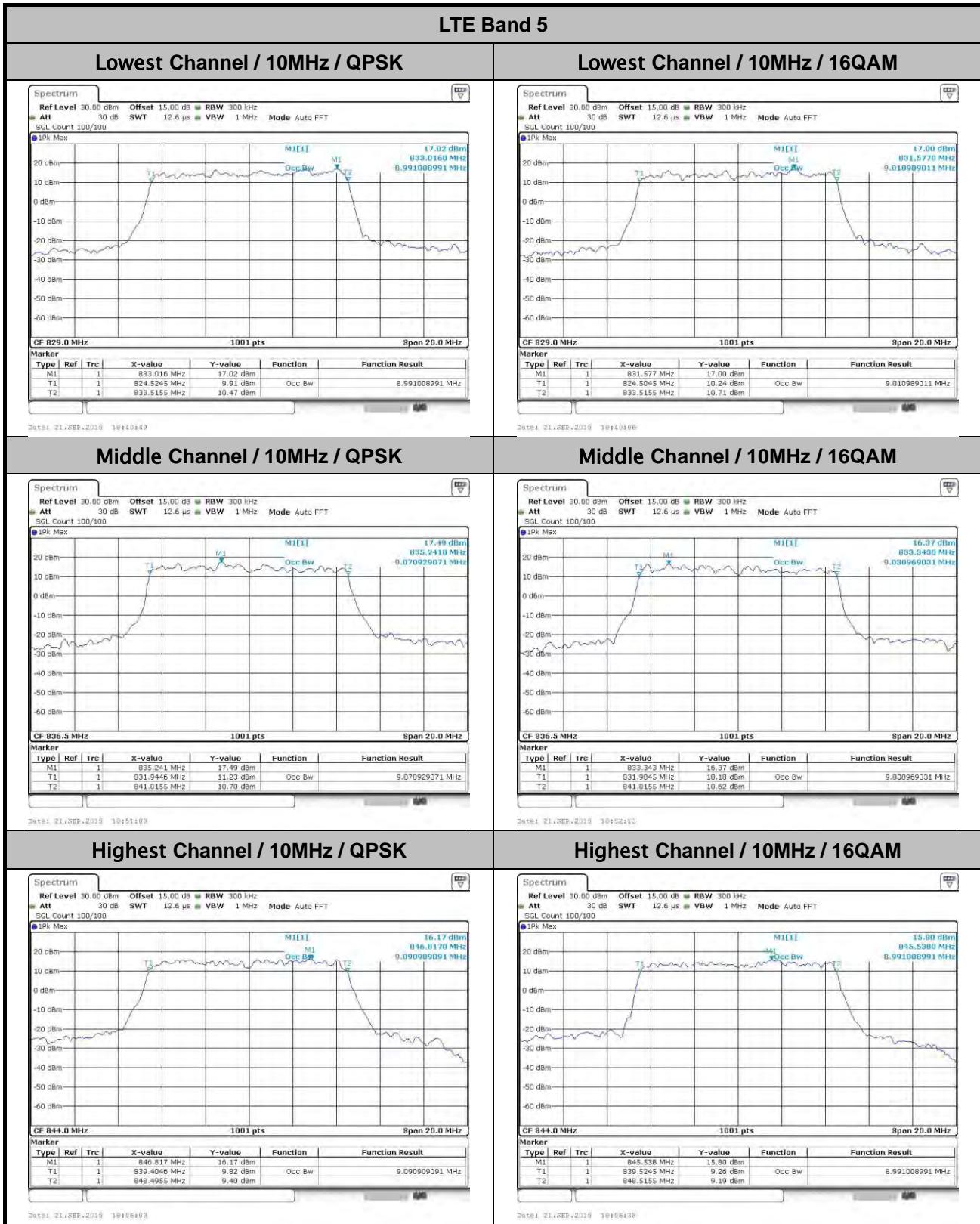
**Occupied Bandwidth**

Mode	LTE Band 5 : 99%OBW(MHz)											
	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	2.71	2.72	4.47	4.51	8.99	9.01	-	-	-	-
Middle CH	1.09	1.11	2.72	2.73	4.51	4.50	9.07	9.03	-	-	-	-
Highest CH	1.10	1.10	2.72	2.72	4.46	4.49	9.09	8.99	-	-	-	-



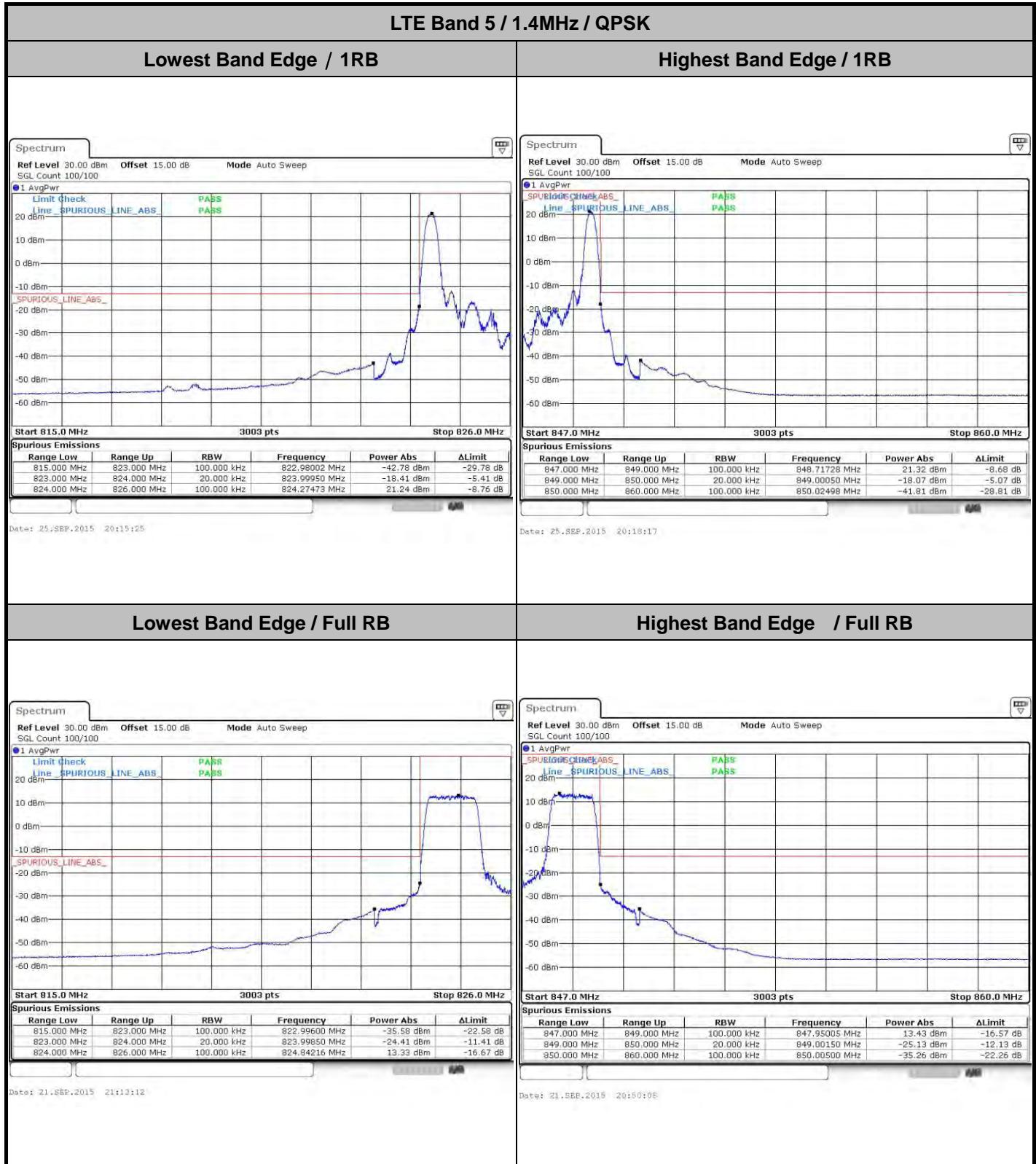


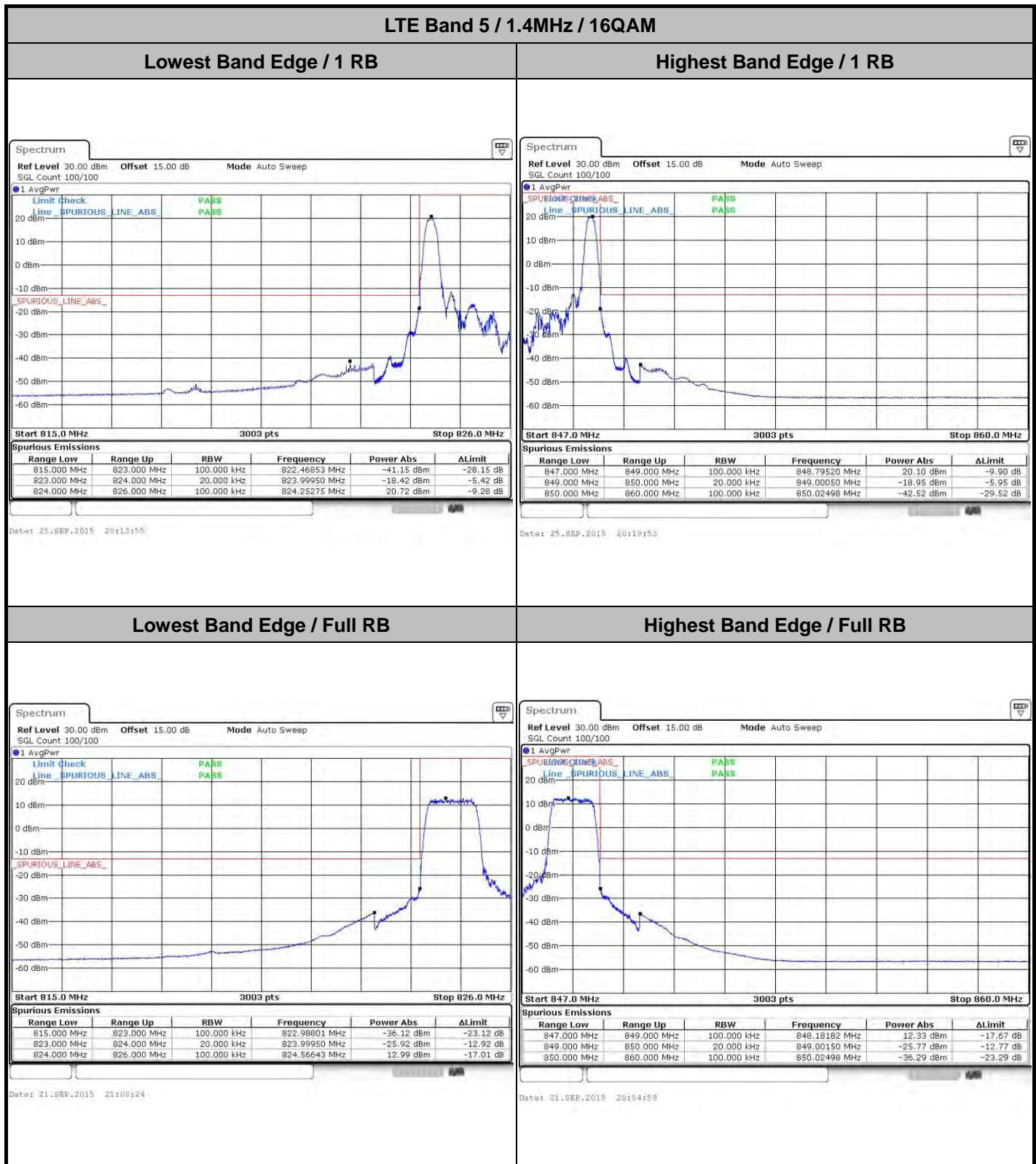


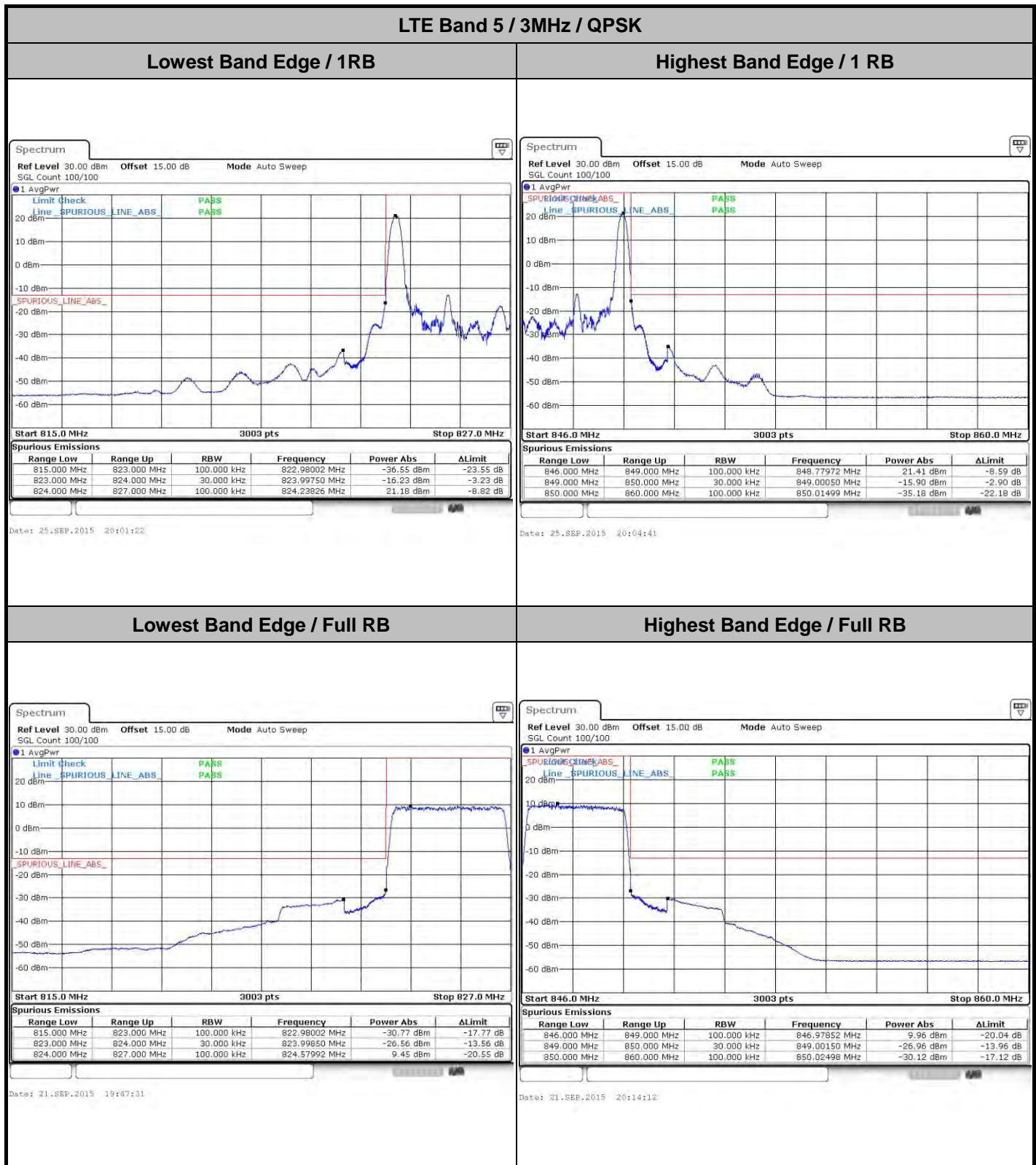


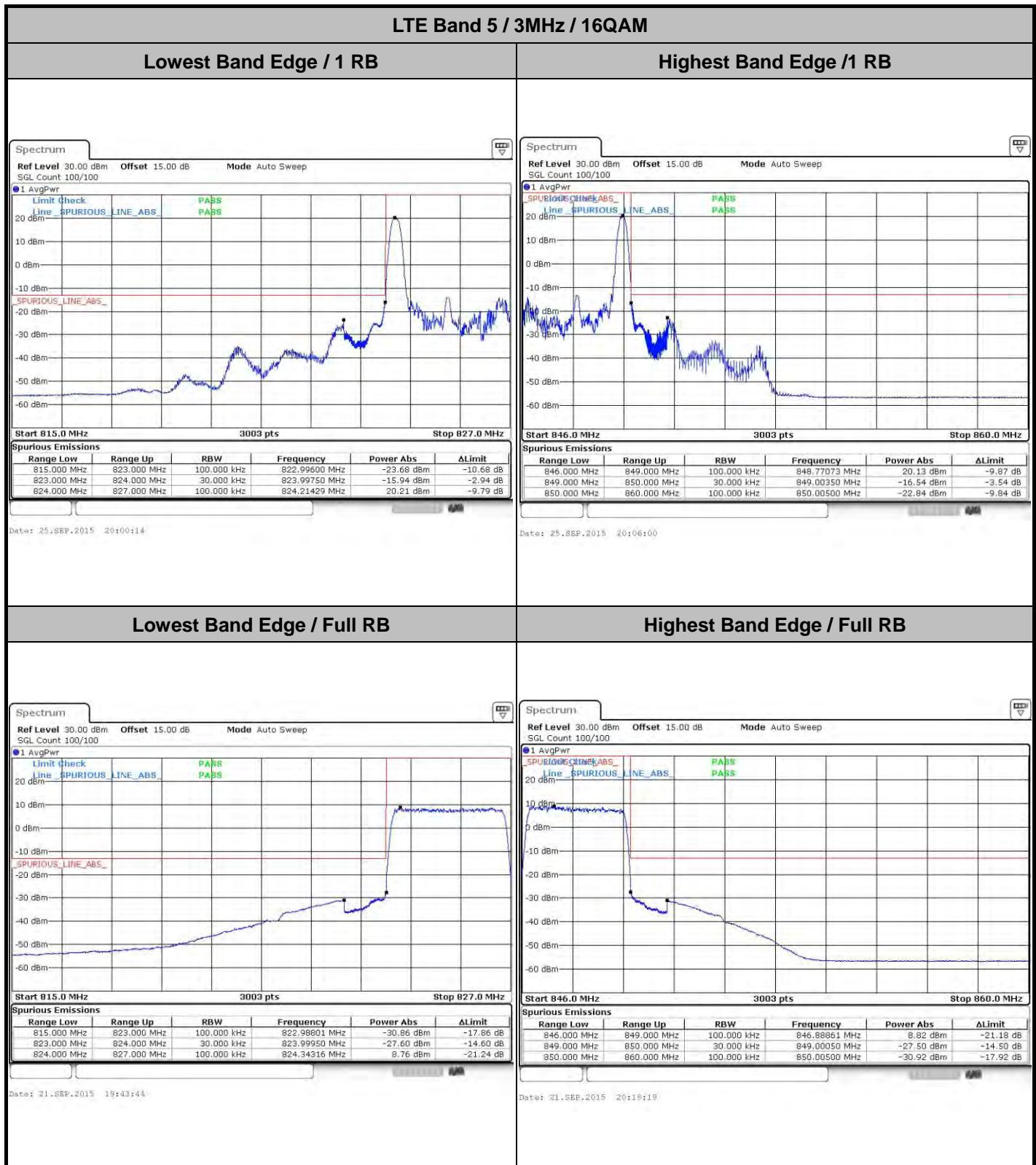


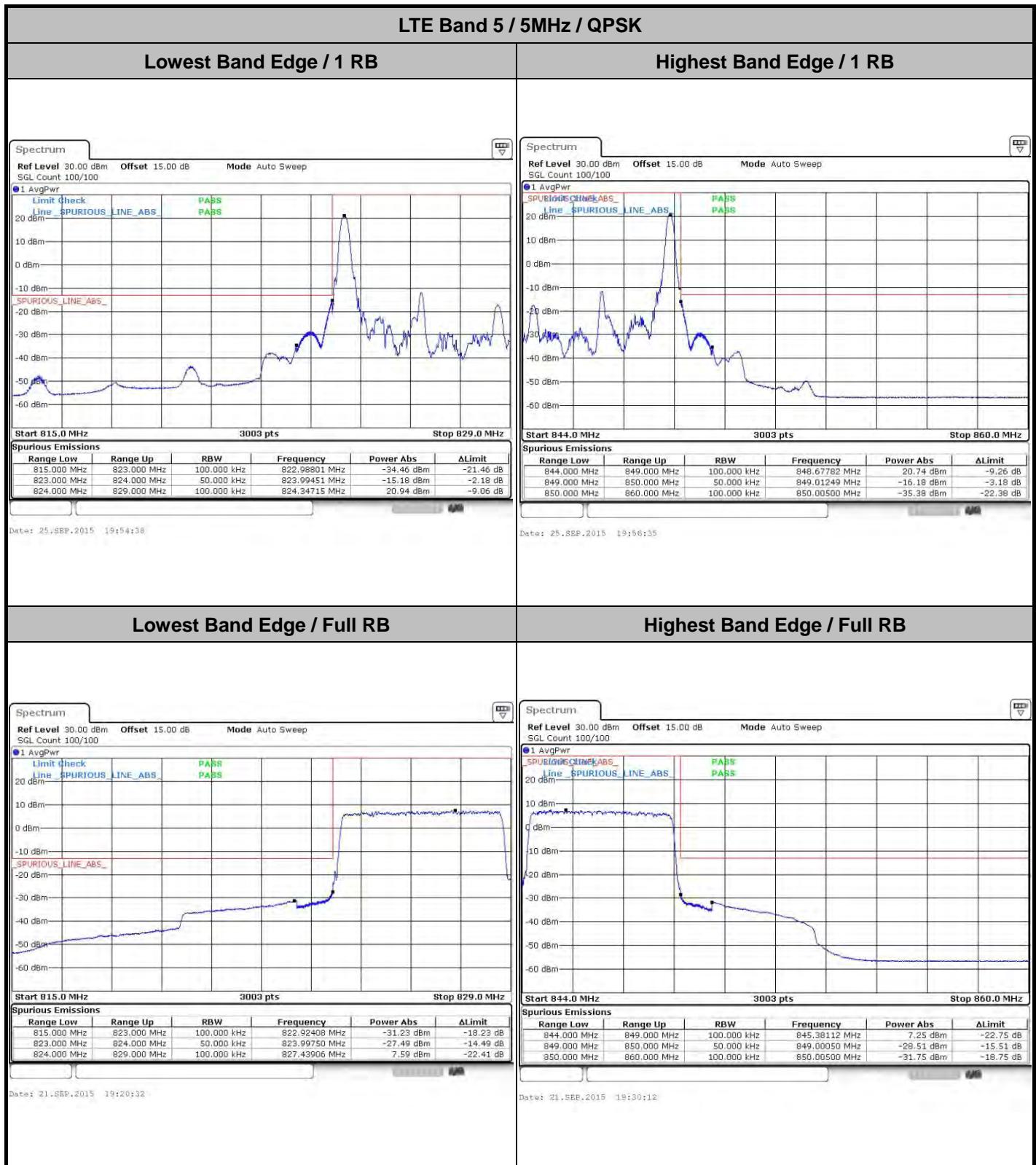
Conducted Band Edge

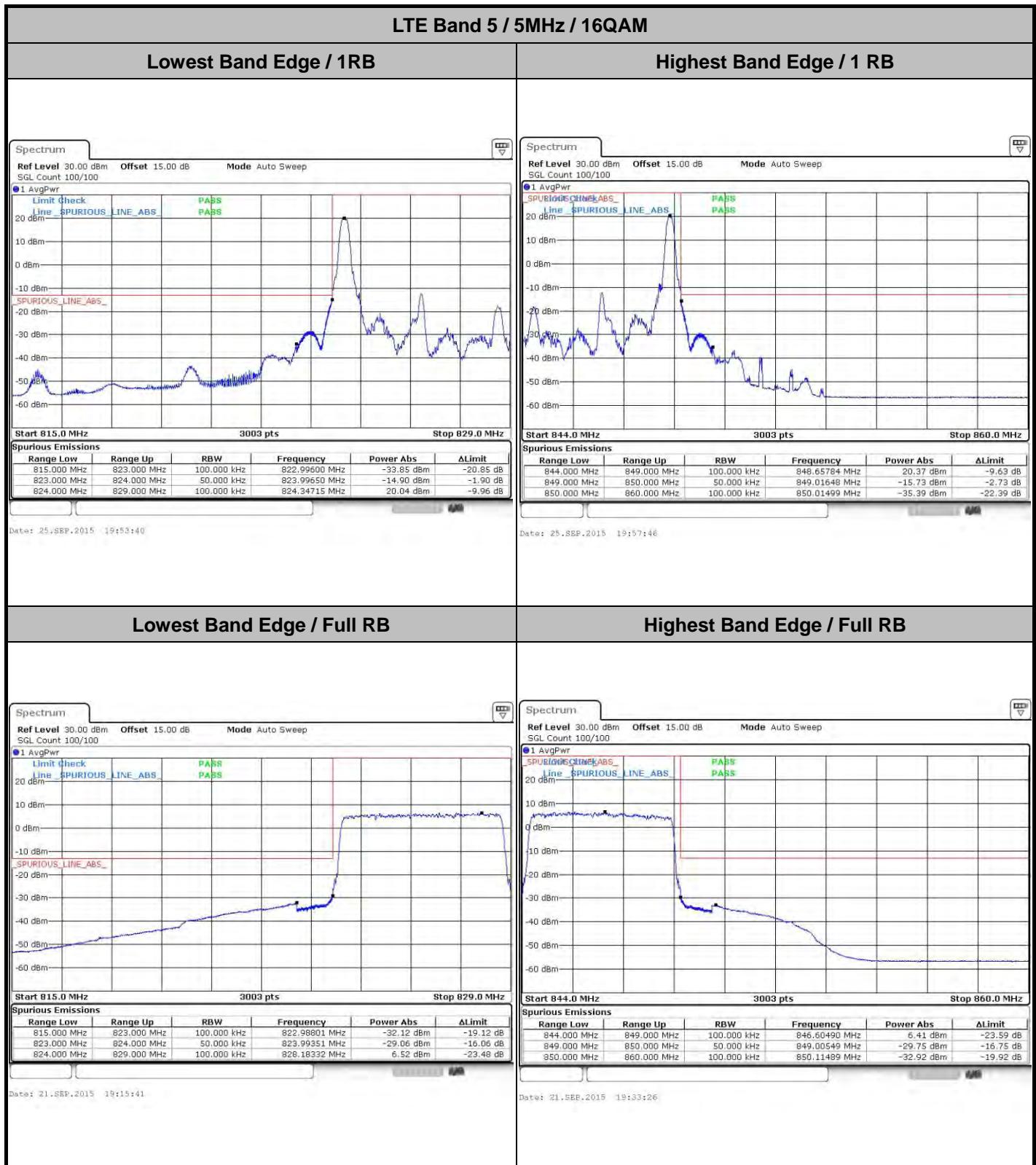


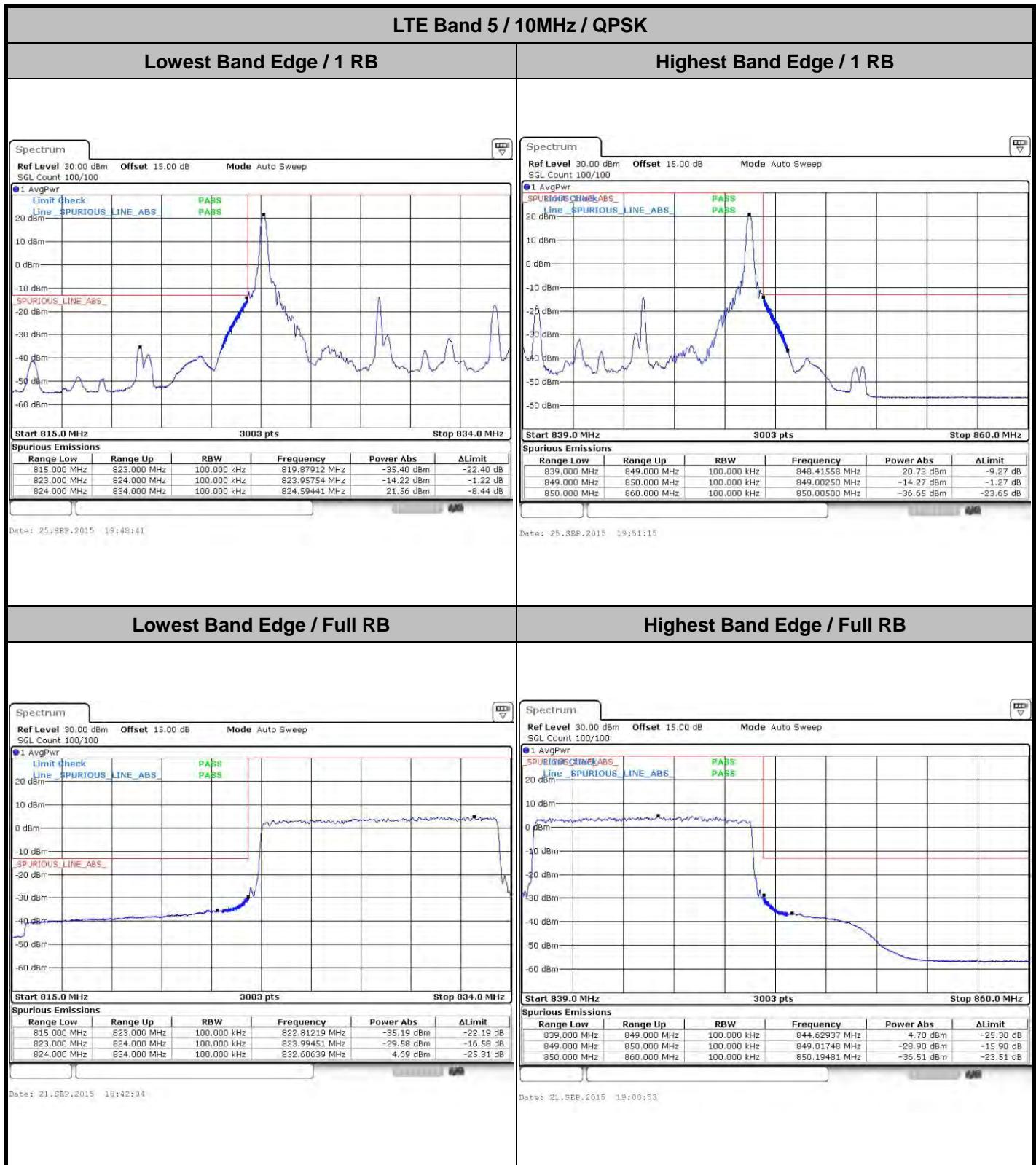


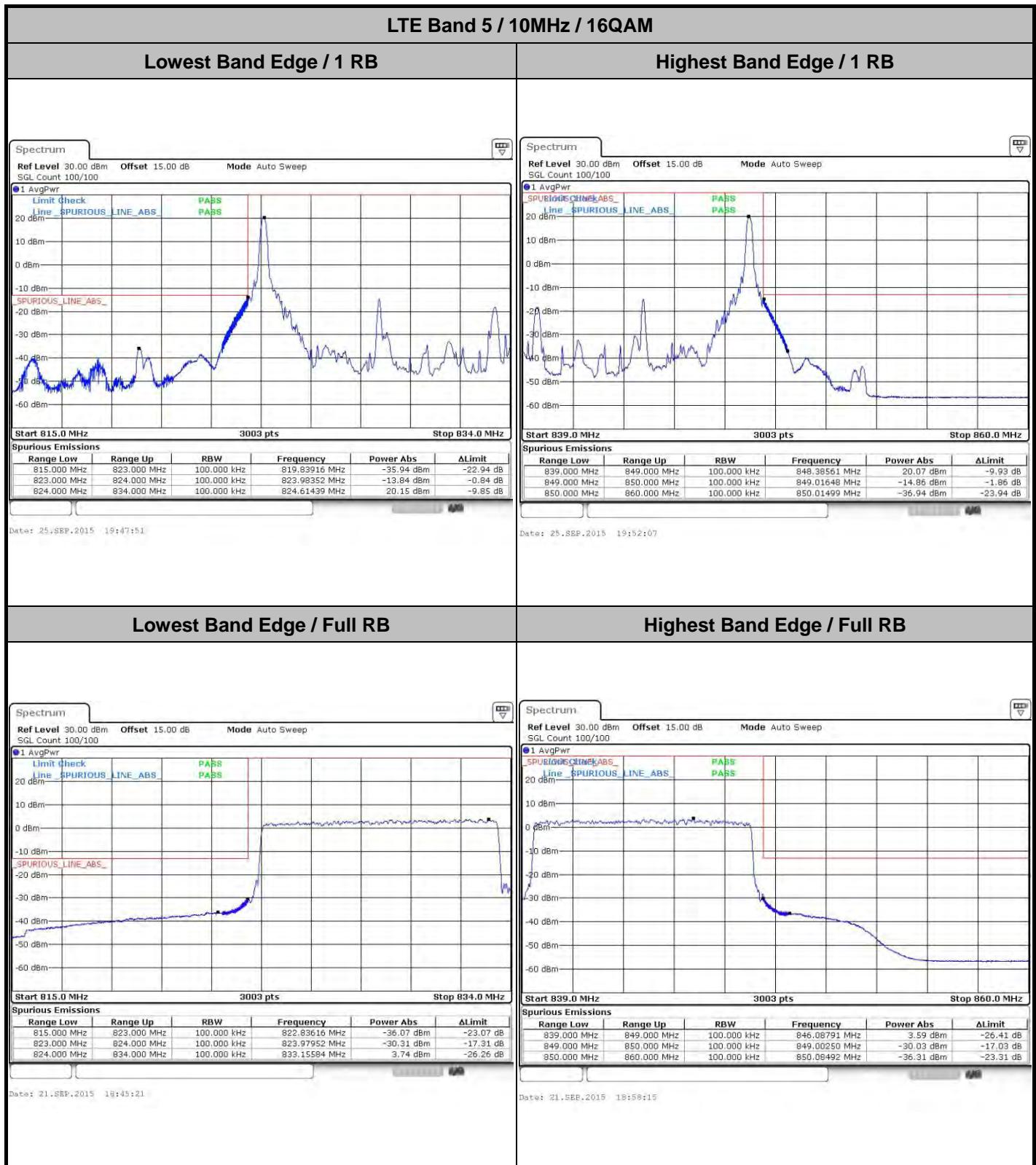






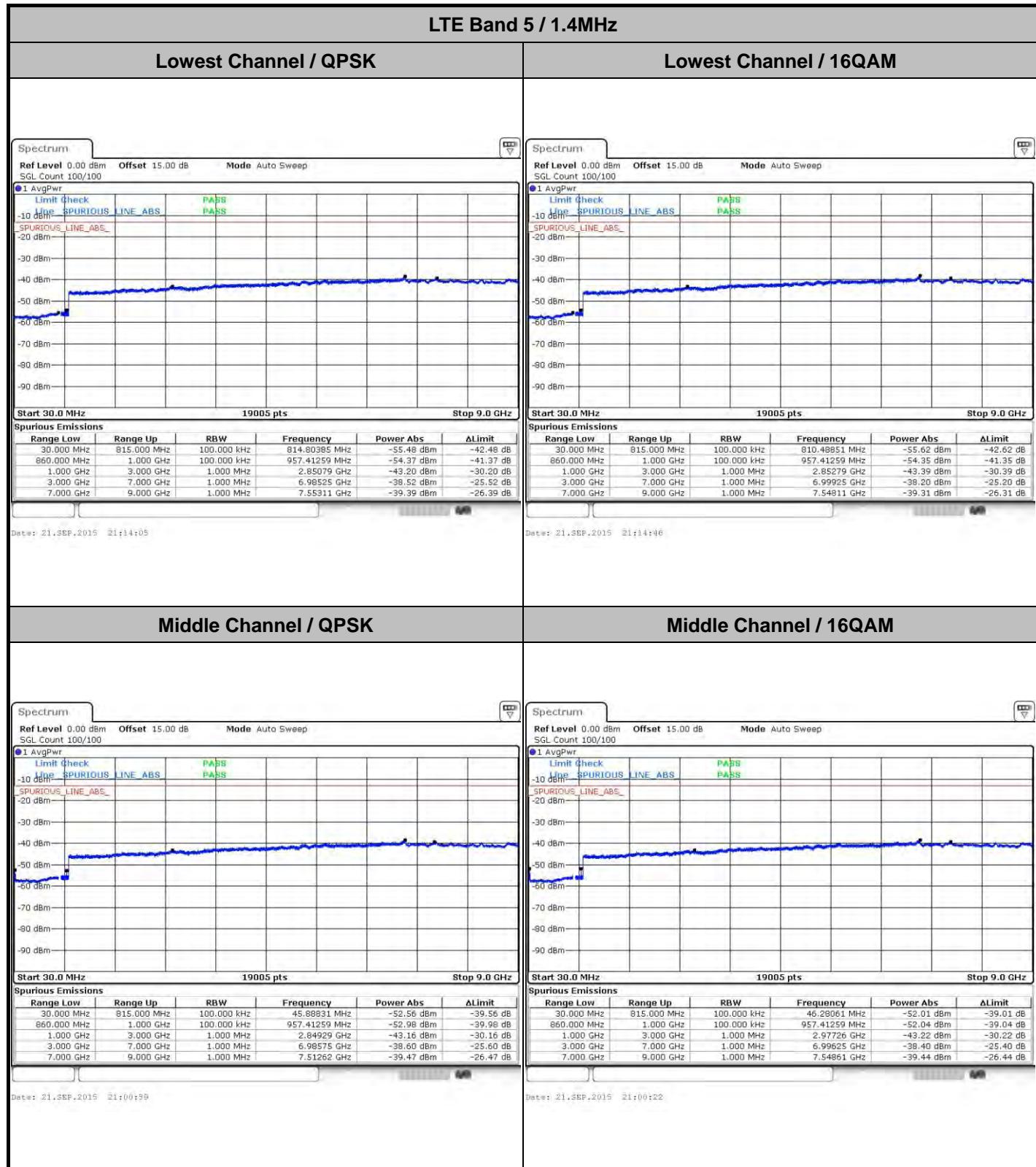








Conducted Spurious Emission

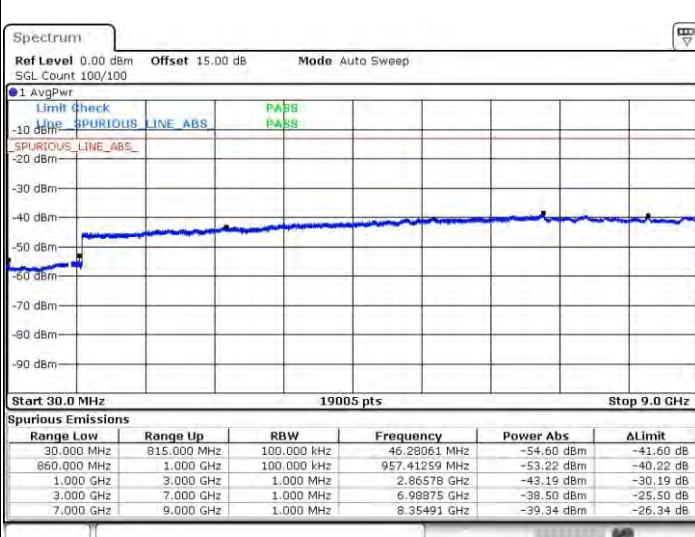
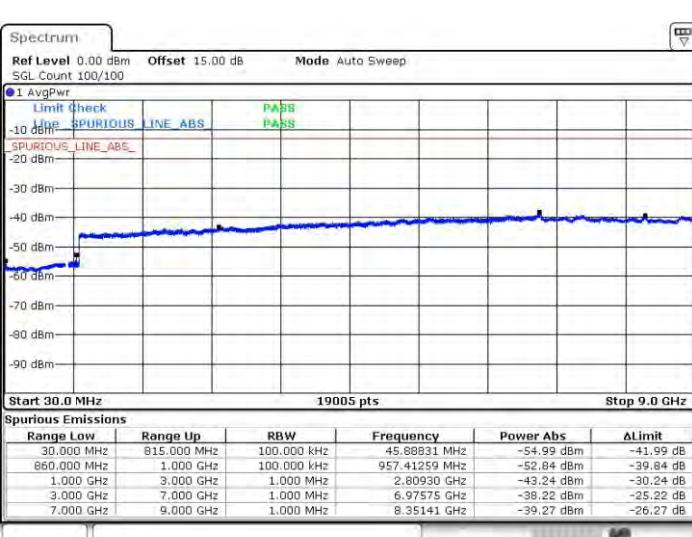




LTE Band 5 / 1.4MHz

Highest Channel / QPSK

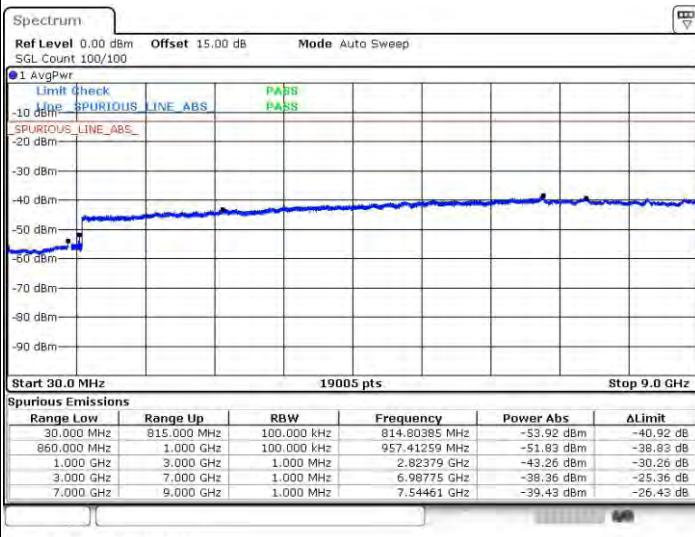
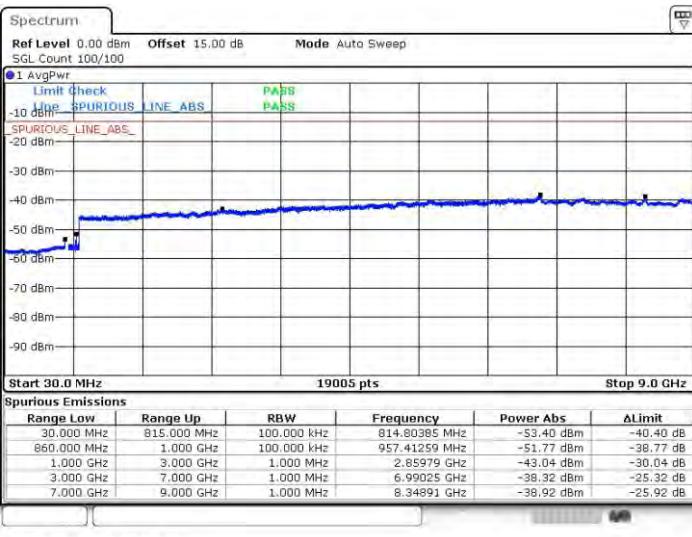
Highest Channel / 16QAM

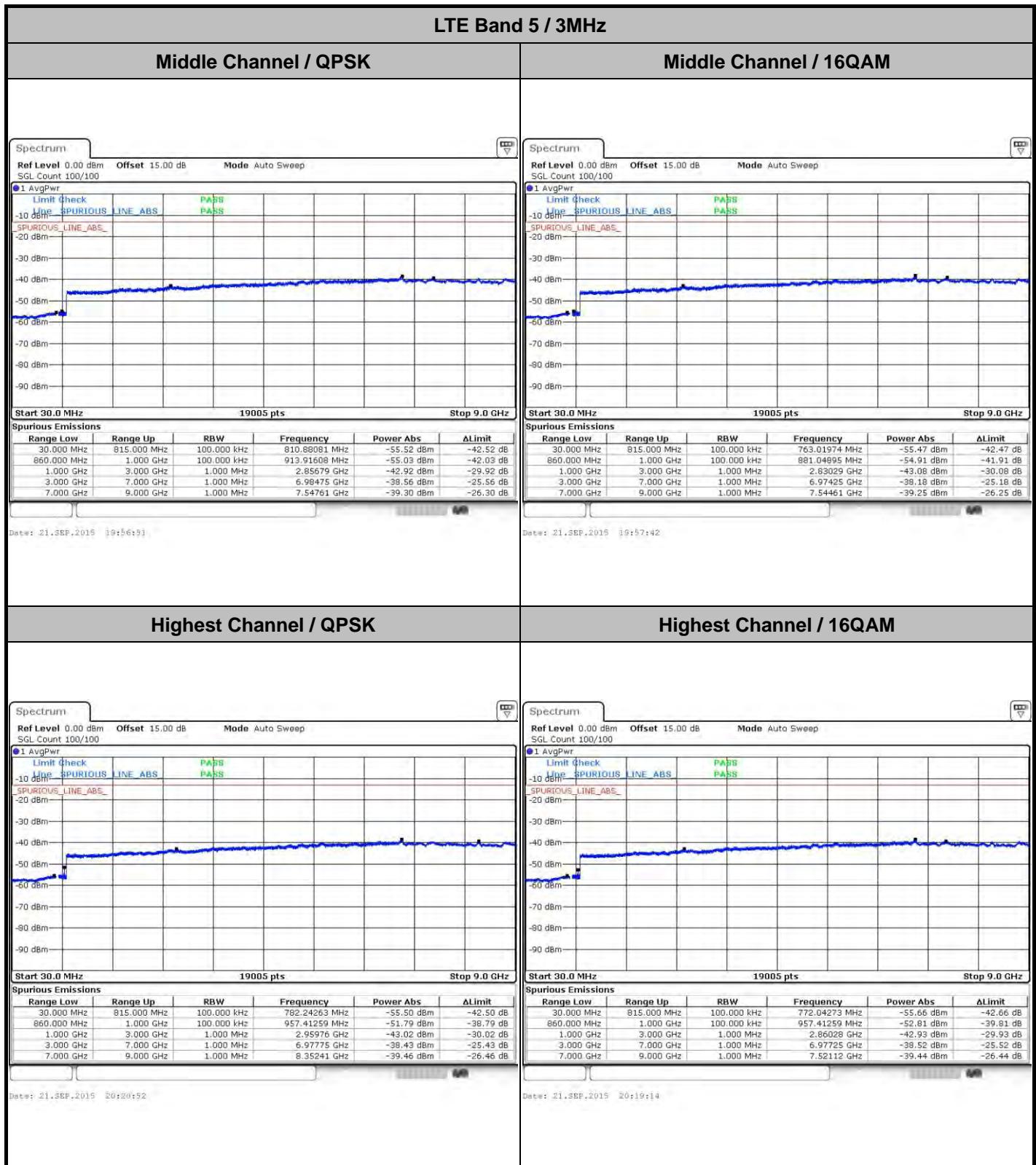


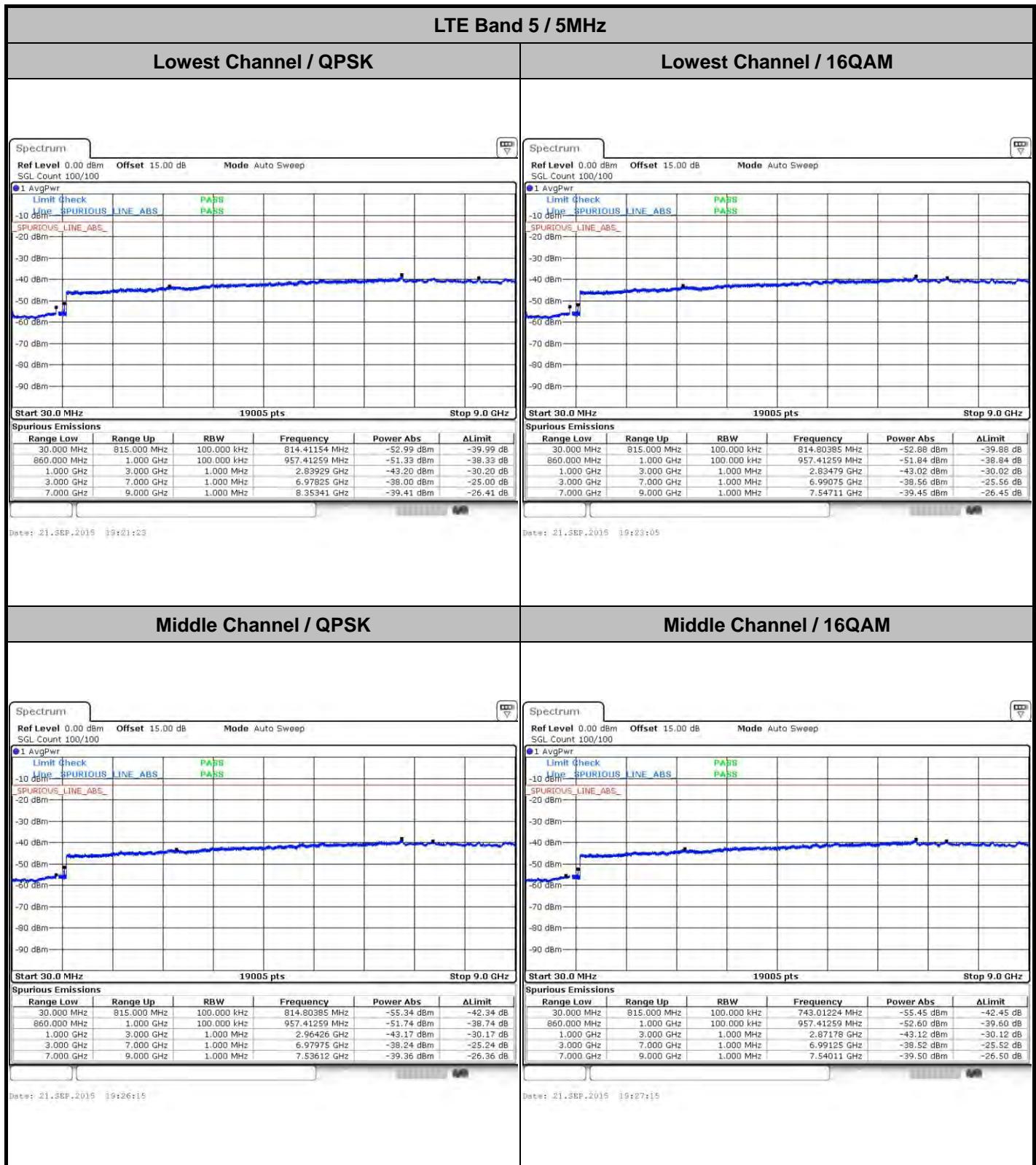
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





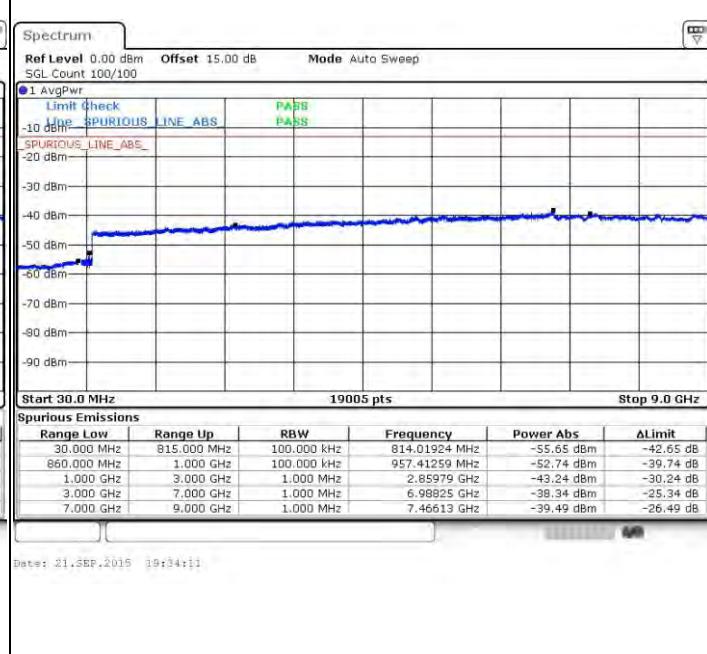
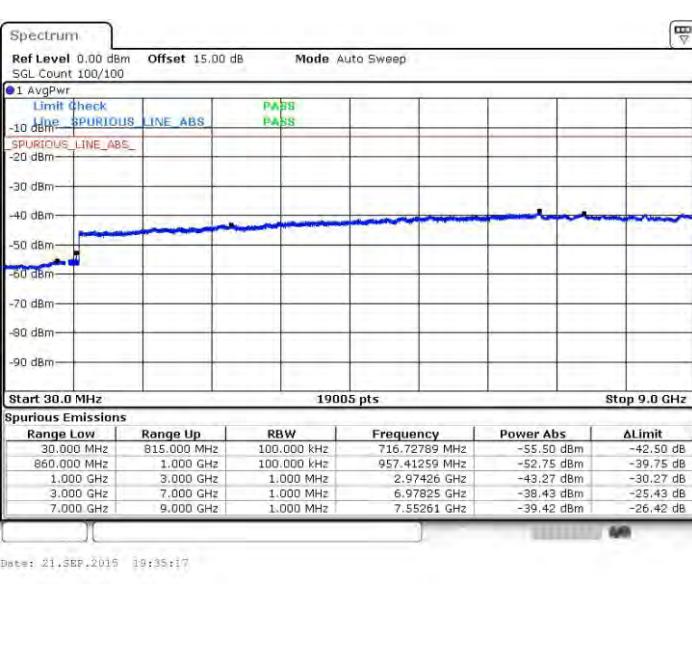




LTE Band 5 / 5MHz

Highest Channel / QPSK

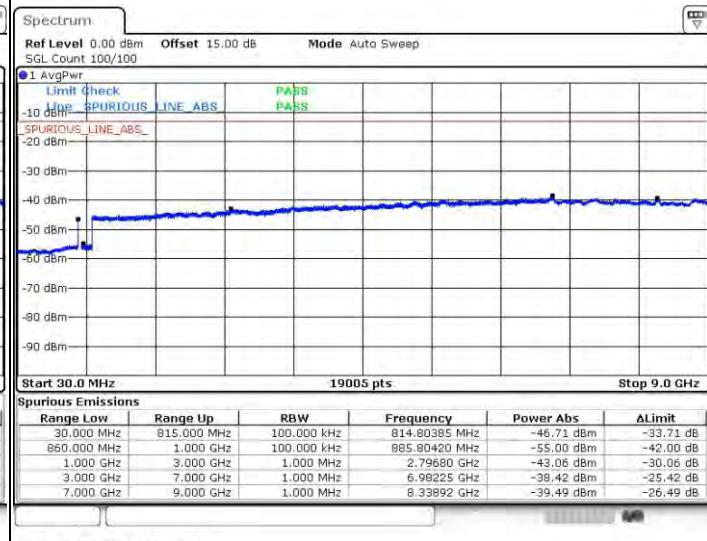
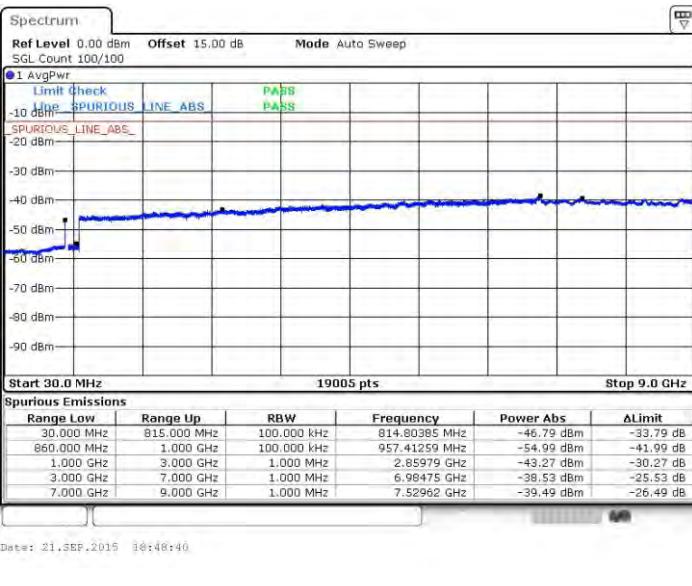
Highest Channel / 16QAM

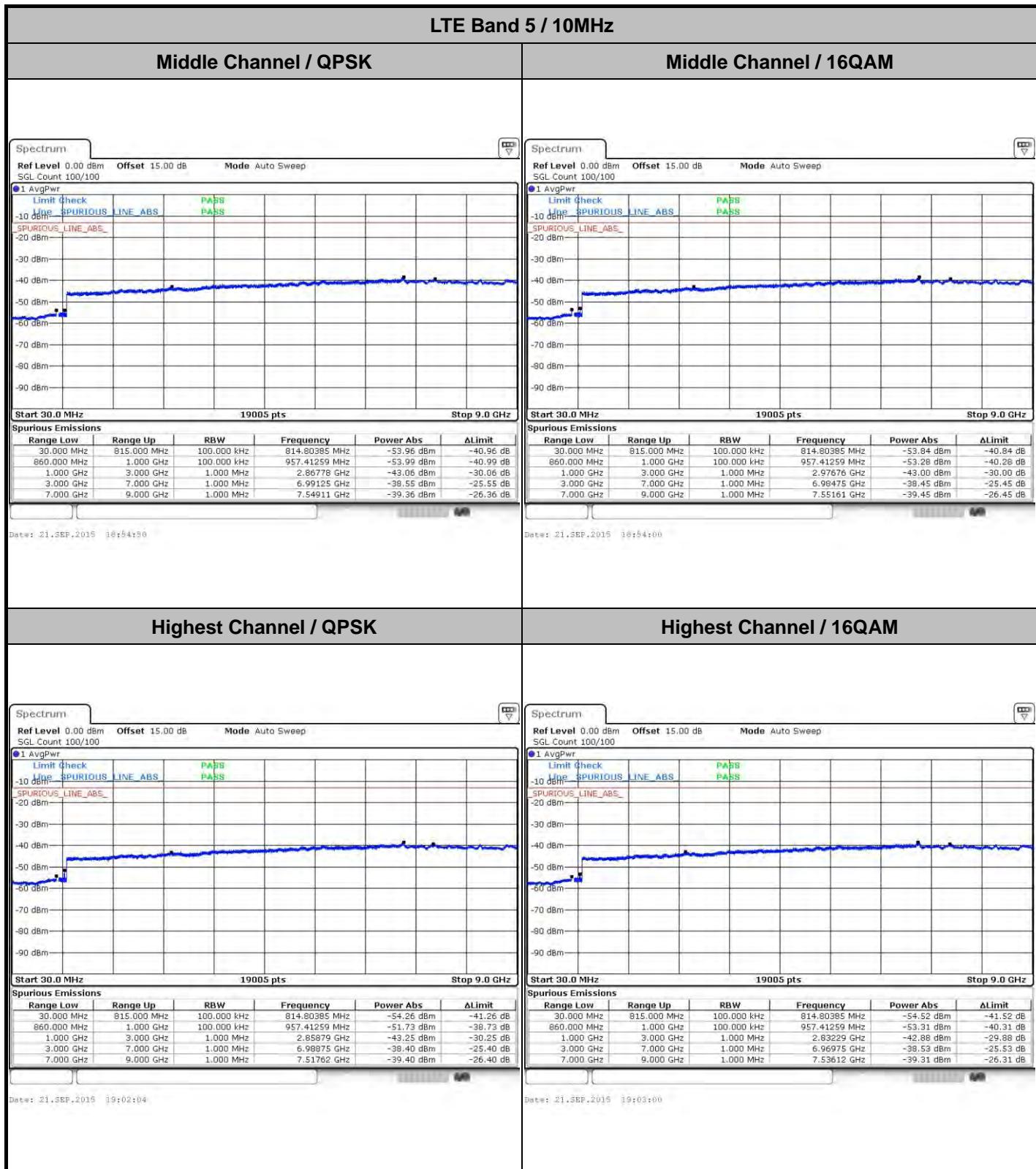


LTE Band 5 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM







Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage = 4.4 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 7

Conducted Output Power(Average power)

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.08	20.99	21.30
	1	12		21.07	20.90	21.25
	1	24		21.06	20.89	21.08
	12	0		20.22	20.09	20.24
	12	7		20.16	20.02	20.32
	12	13		20.17	19.93	20.21
	25	0		20.16	19.85	20.18
	1	0		20.45	20.22	20.55
5	1	12	16-QAM	20.41	20.18	20.46
	1	24		20.35	20.09	20.40
	12	0		19.41	19.10	19.46
	12	7		19.35	19.26	19.55
	12	13		19.37	19.13	19.41
	25	0		19.36	19.19	19.37
	1	0		21.43	21.21	21.57
	1	25		21.17	20.97	21.22
10	1	49	QPSK	21.10	20.83	21.25
	25	0		20.24	20.08	20.37
	25	12		20.13	19.98	20.11
	25	25		20.14	19.91	20.20
	50	0		20.20	20.00	20.15
	1	0		20.77	20.37	20.84
	1	25		20.52	20.23	20.55
	1	49		20.47	20.13	20.47
10	25	0	16-QAM	20.43	19.21	19.65
	25	12		20.45	19.08	19.41
	25	25		20.78	19.12	19.32
	50	0		19.41	19.09	19.28

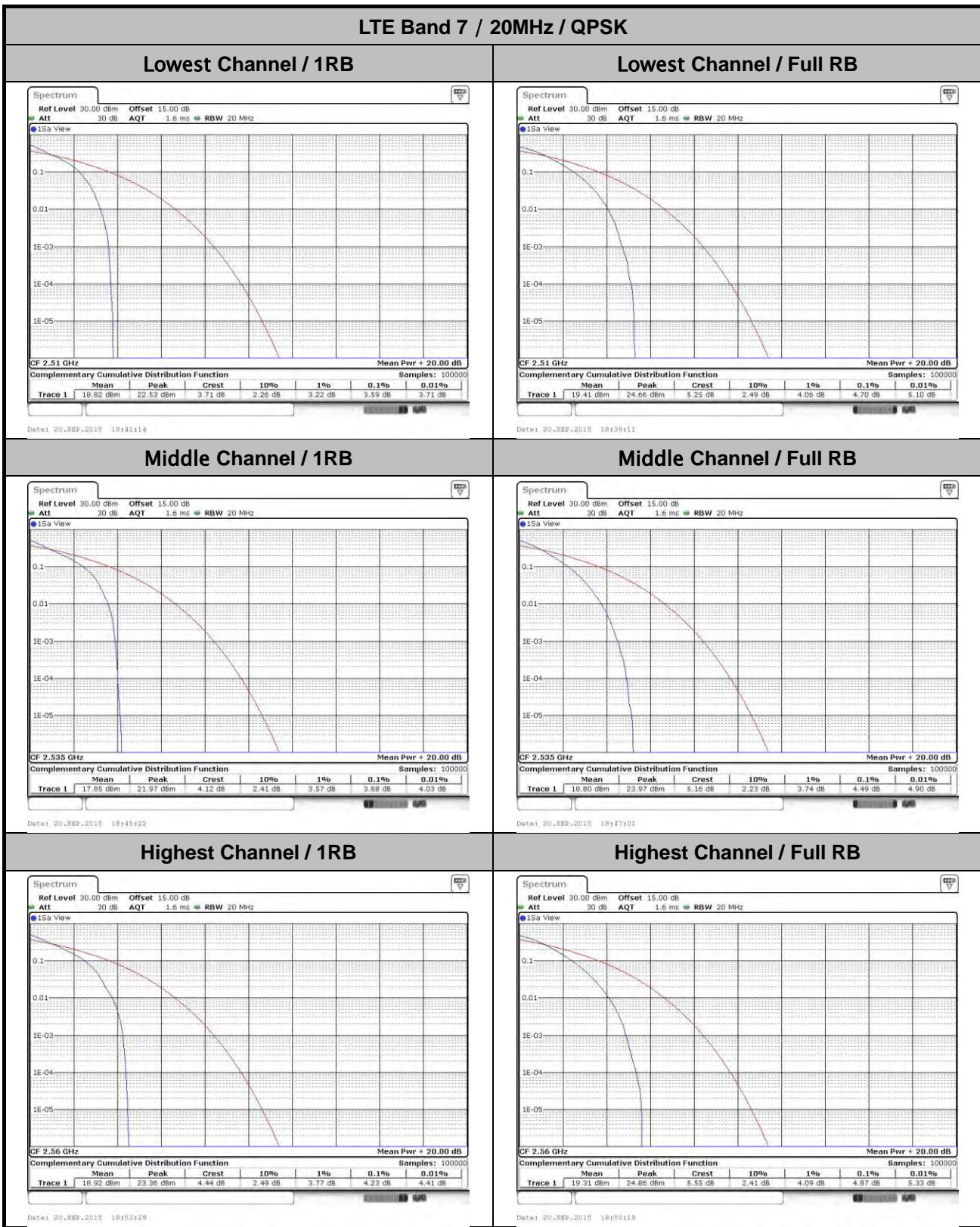


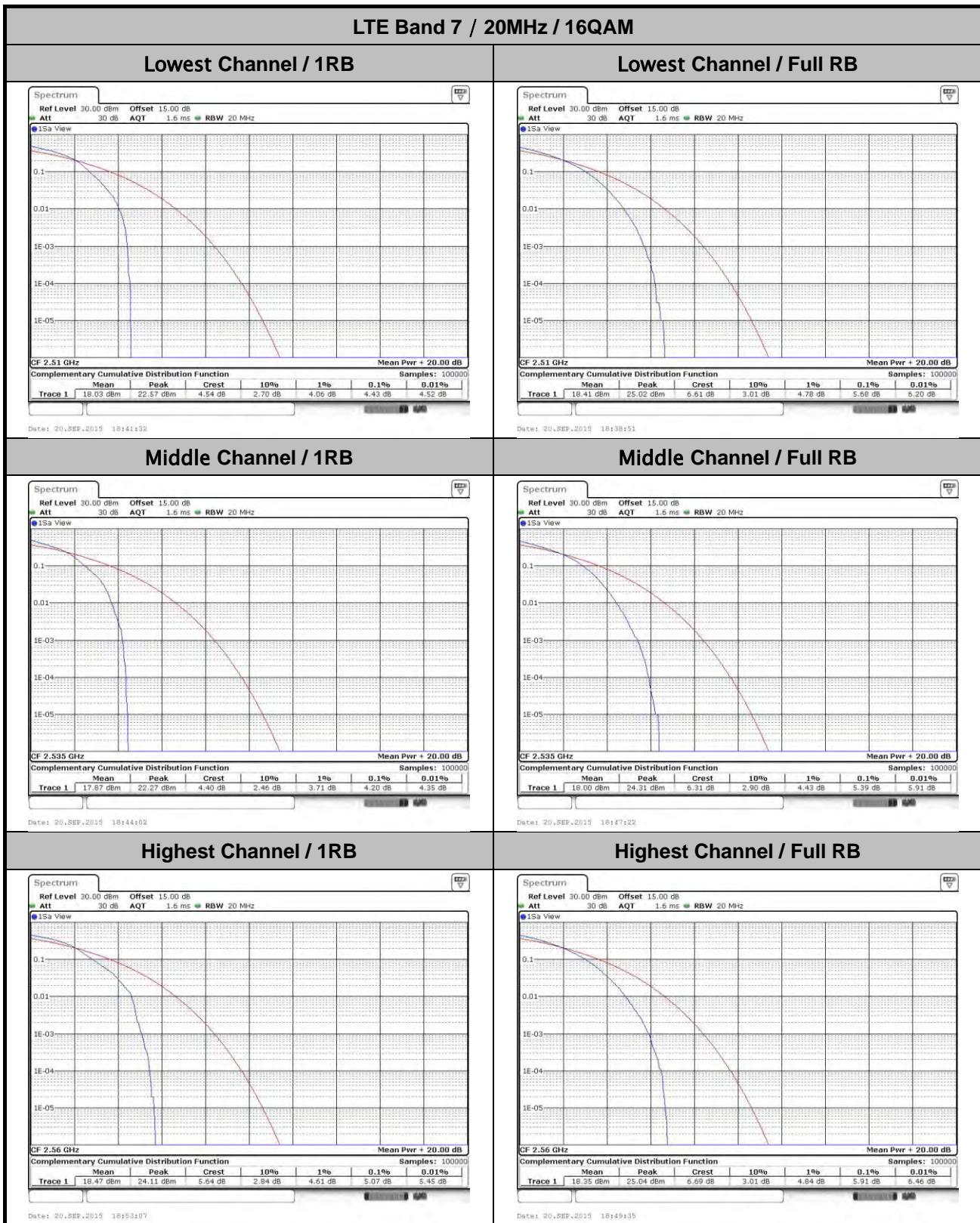
LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.60	21.54	21.71
	1	37		21.01	20.98	21.02
	1	74		21.14	21.16	21.25
	36	0		20.47	20.34	20.55
	36	20		20.25	20.00	20.31
	36	39		20.24	20.08	20.44
	75	0		20.35	20.12	20.47
15	1	0	16-QAM	20.95	20.88	21.13
	1	37		20.46	20.16	20.48
	1	74		20.53	20.40	20.72
	36	0		20.45	19.39	19.69
	36	20		20.46	19.18	19.41
	36	39		20.96	19.19	19.40
	75	0		19.49	19.33	19.54
20	1	0	QPSK	21.58	21.37	21.63
	1	49		21.14	20.87	21.23
	1	99		20.98	20.86	21.02
	50	0		20.52	20.35	20.53
	50	24		20.19	20.00	20.24
	50	50		20.16	20.05	20.30
	100	0		20.28	20.26	20.43
20	1	0	16-QAM	21.02	20.77	21.04
	1	49		20.56	20.31	20.54
	1	99		20.30	20.23	20.49
	50	0		19.75	19.41	19.68
	50	24		19.40	19.00	19.38
	50	50		19.33	19.15	19.36
	100	0		19.46	19.25	19.54



Peak-to-Average Ratio

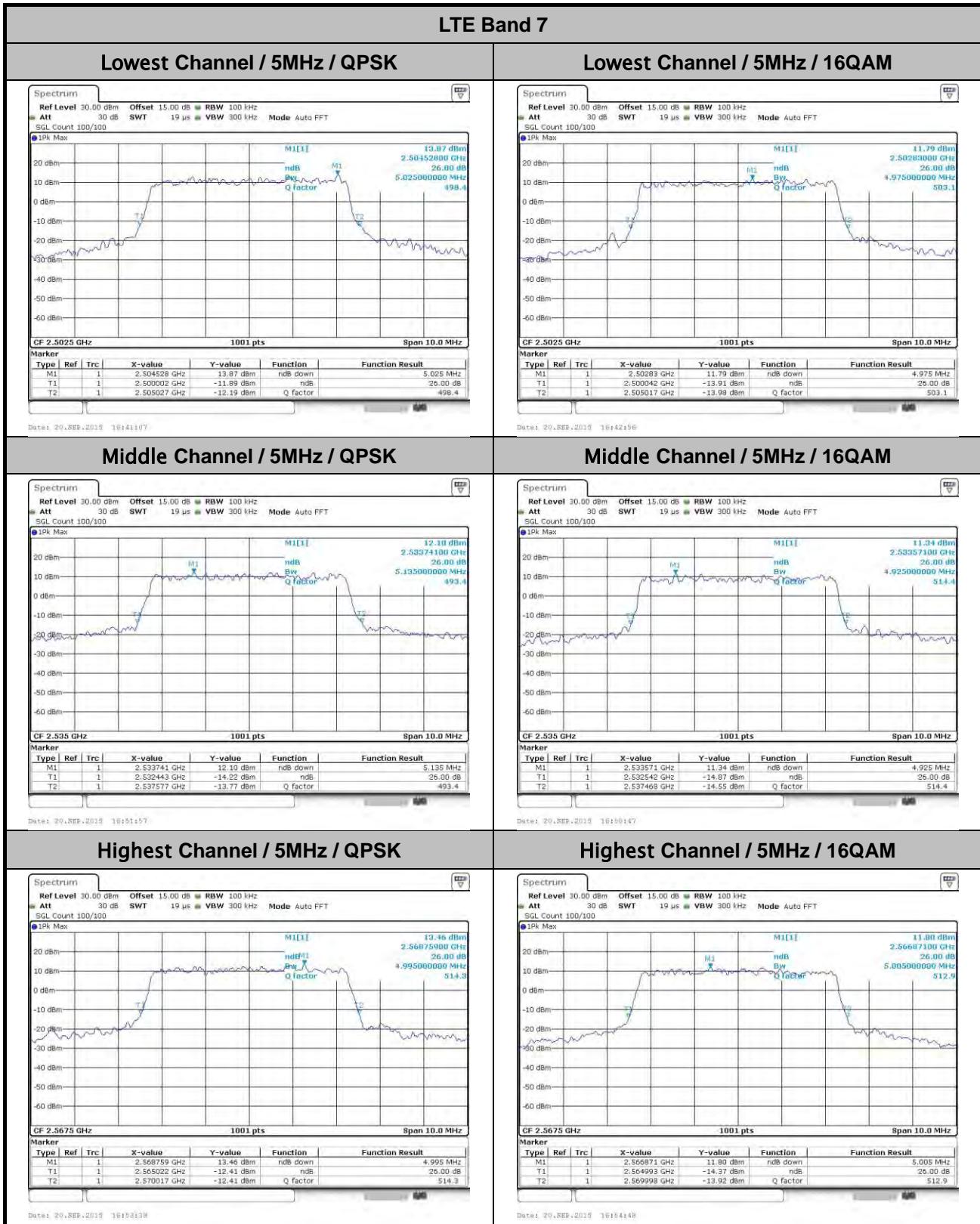
Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	4.70	4.43	5.68	PASS
Middle CH	3.88	4.49	4.20	5.39	
Highest CH	4.23	4.87	5.07	5.91	

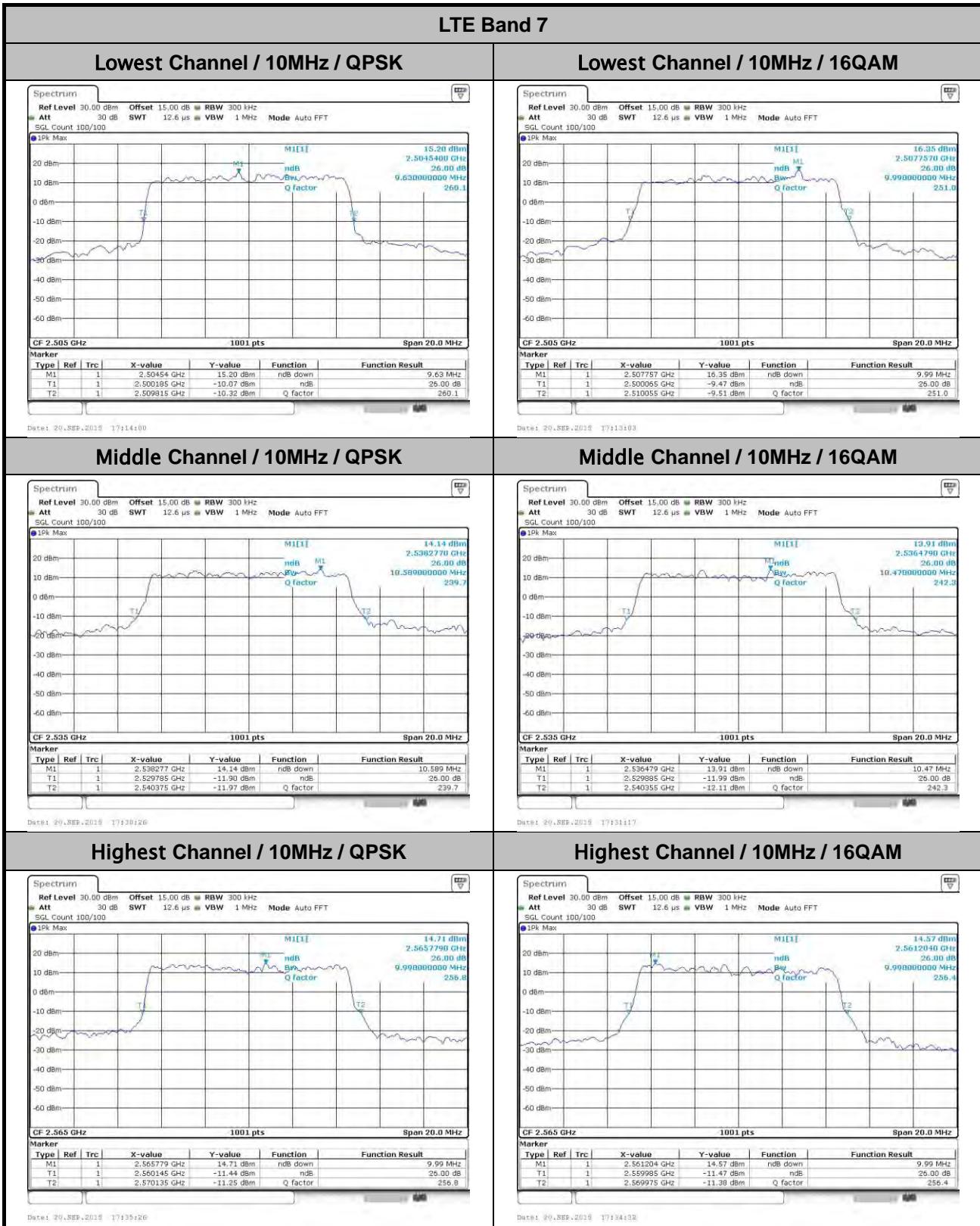


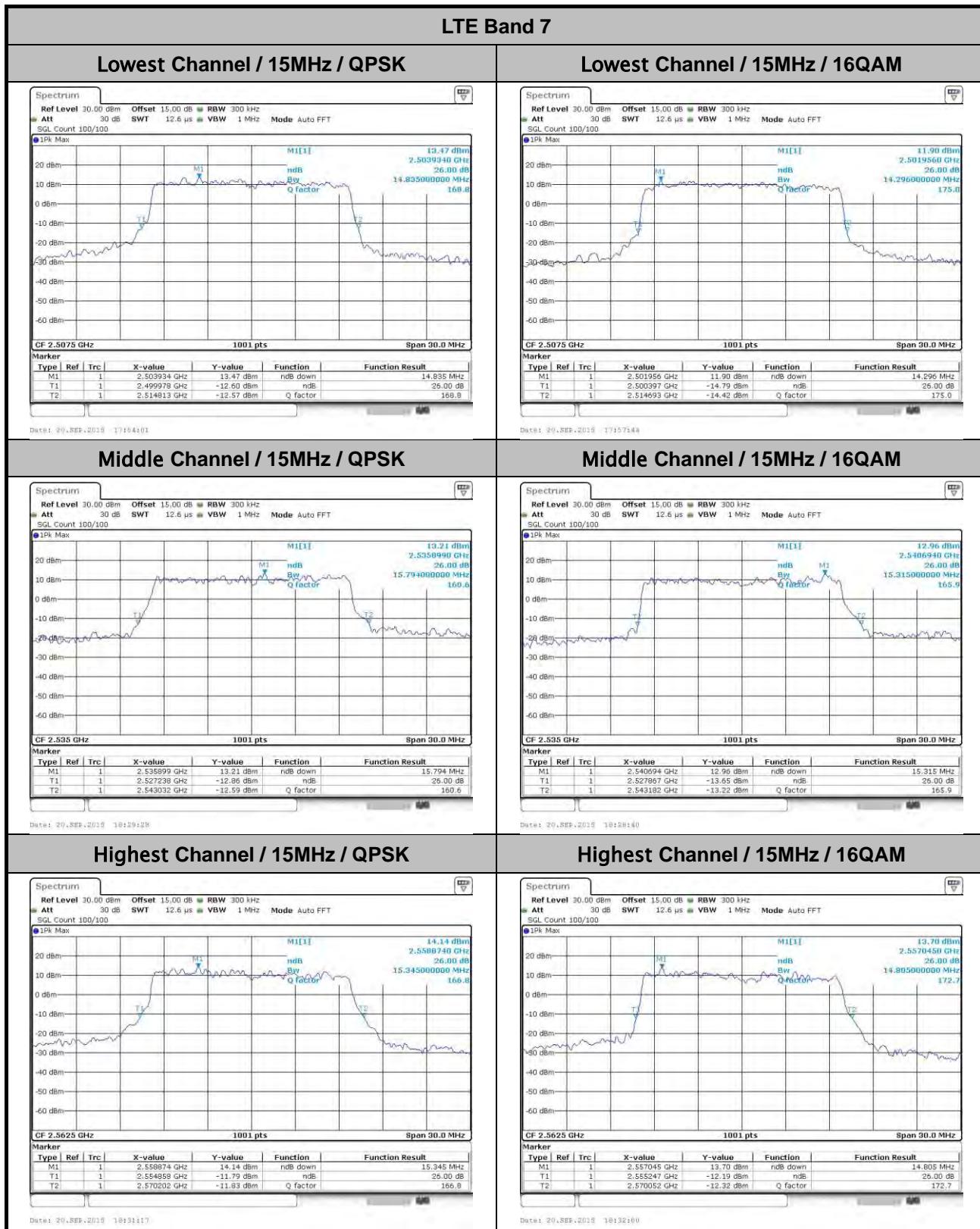


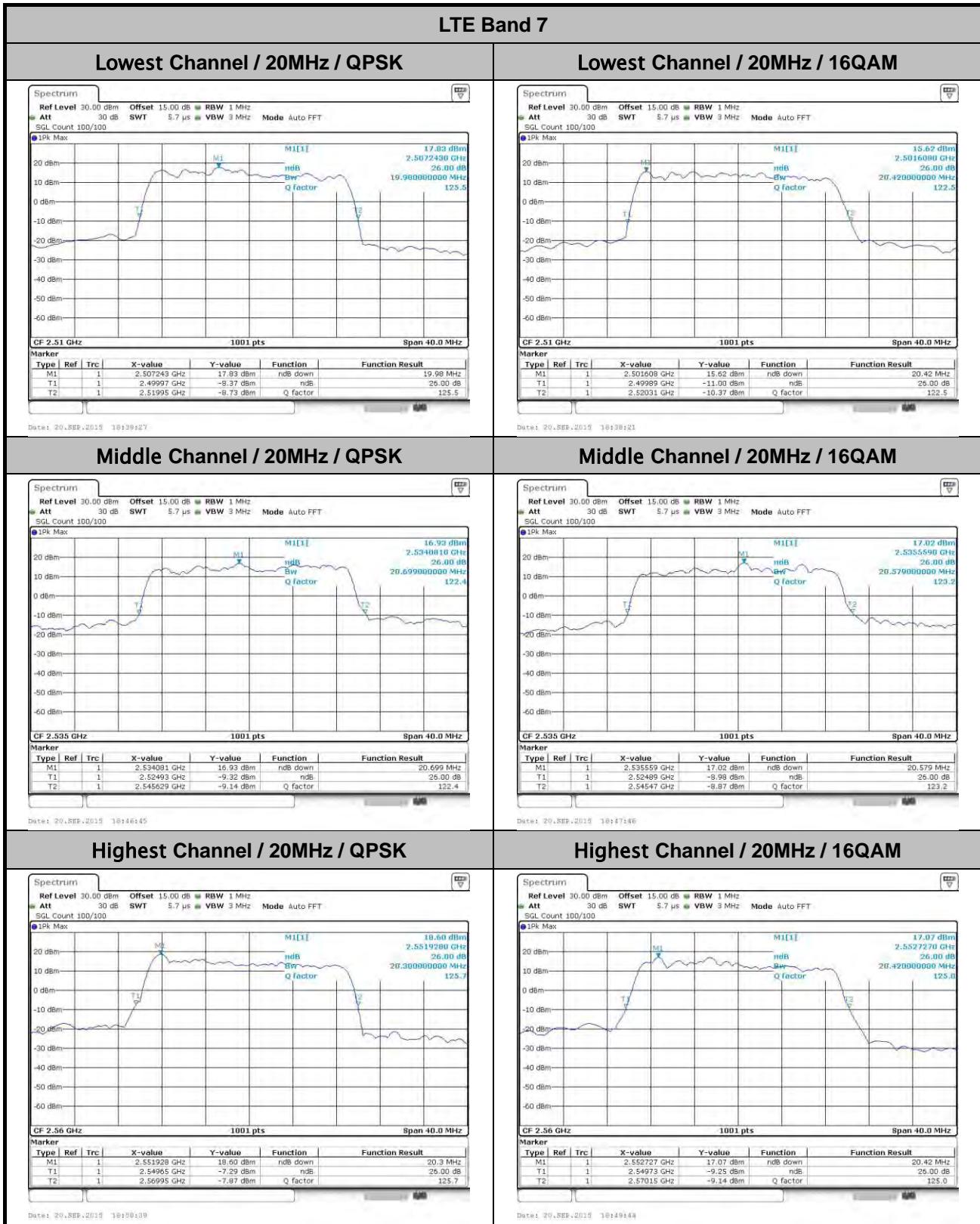
**26dB Bandwidth**

Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.03	4.98	9.63	9.99	14.84	14.30	19.98	20.42
Middle CH	-	-	-	-	5.14	4.93	10.59	10.47	15.79	15.32	20.70	20.58
Highest CH	-	-	-	-	5.00	5.01	9.99	9.99	15.35	14.81	20.30	20.42



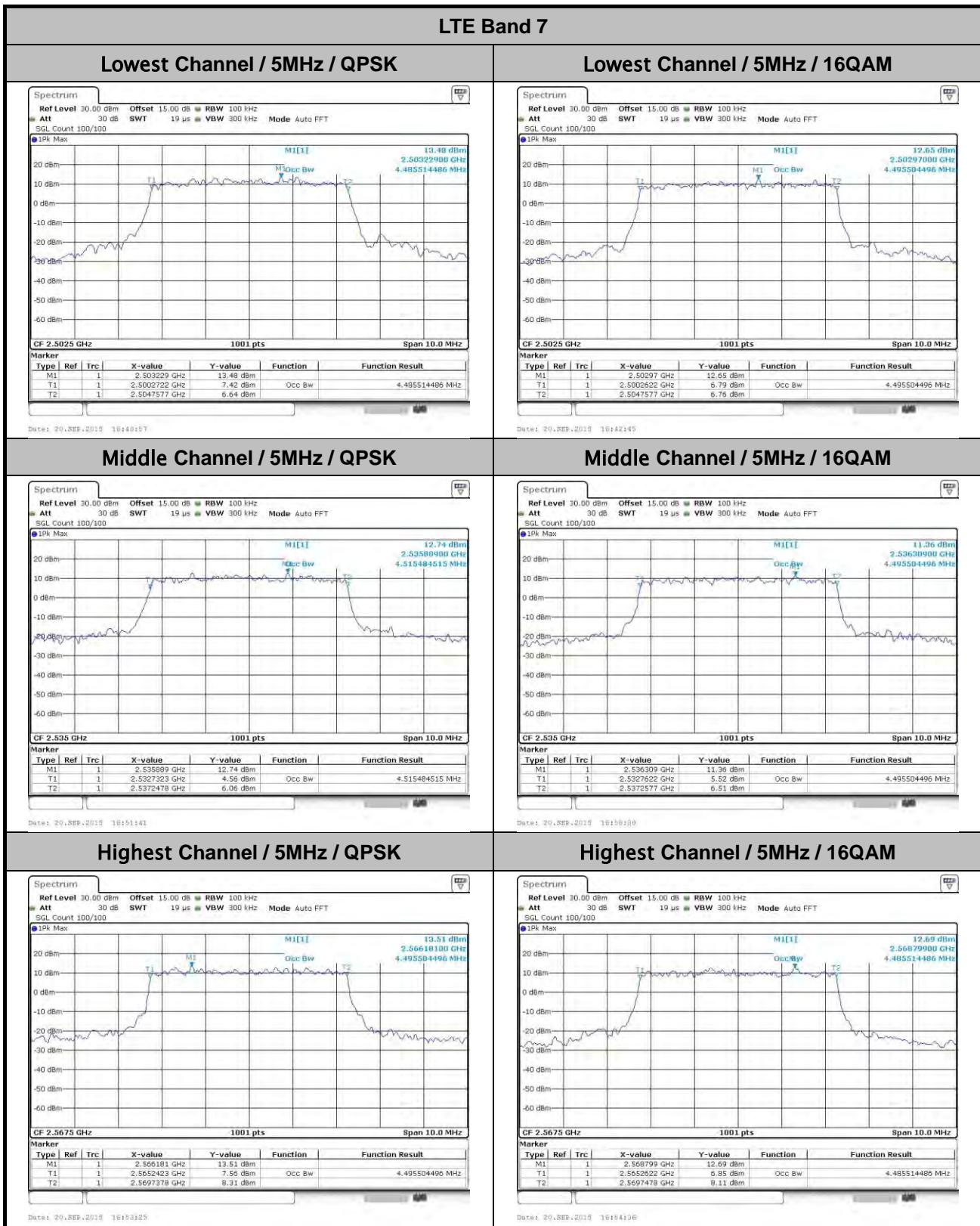


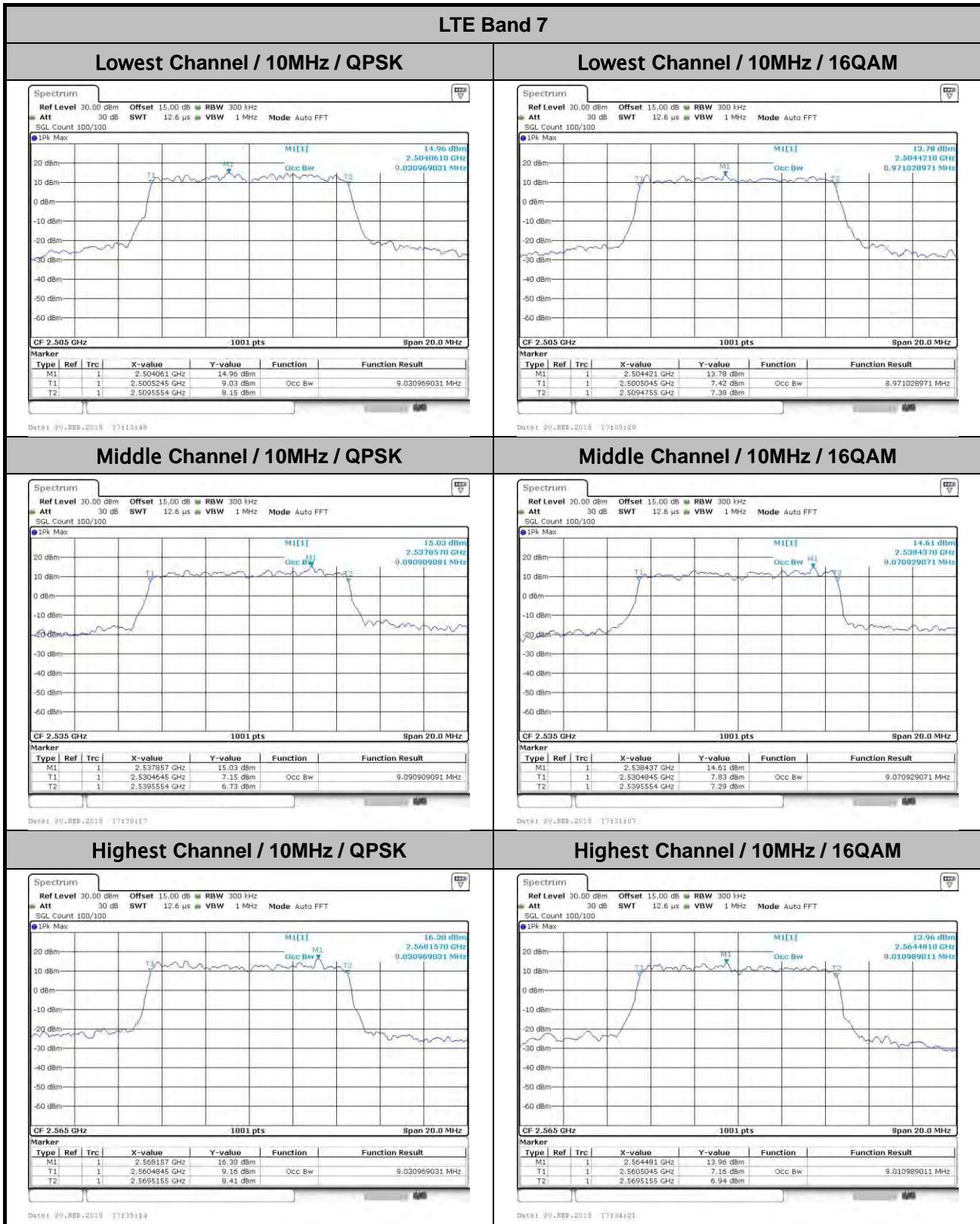


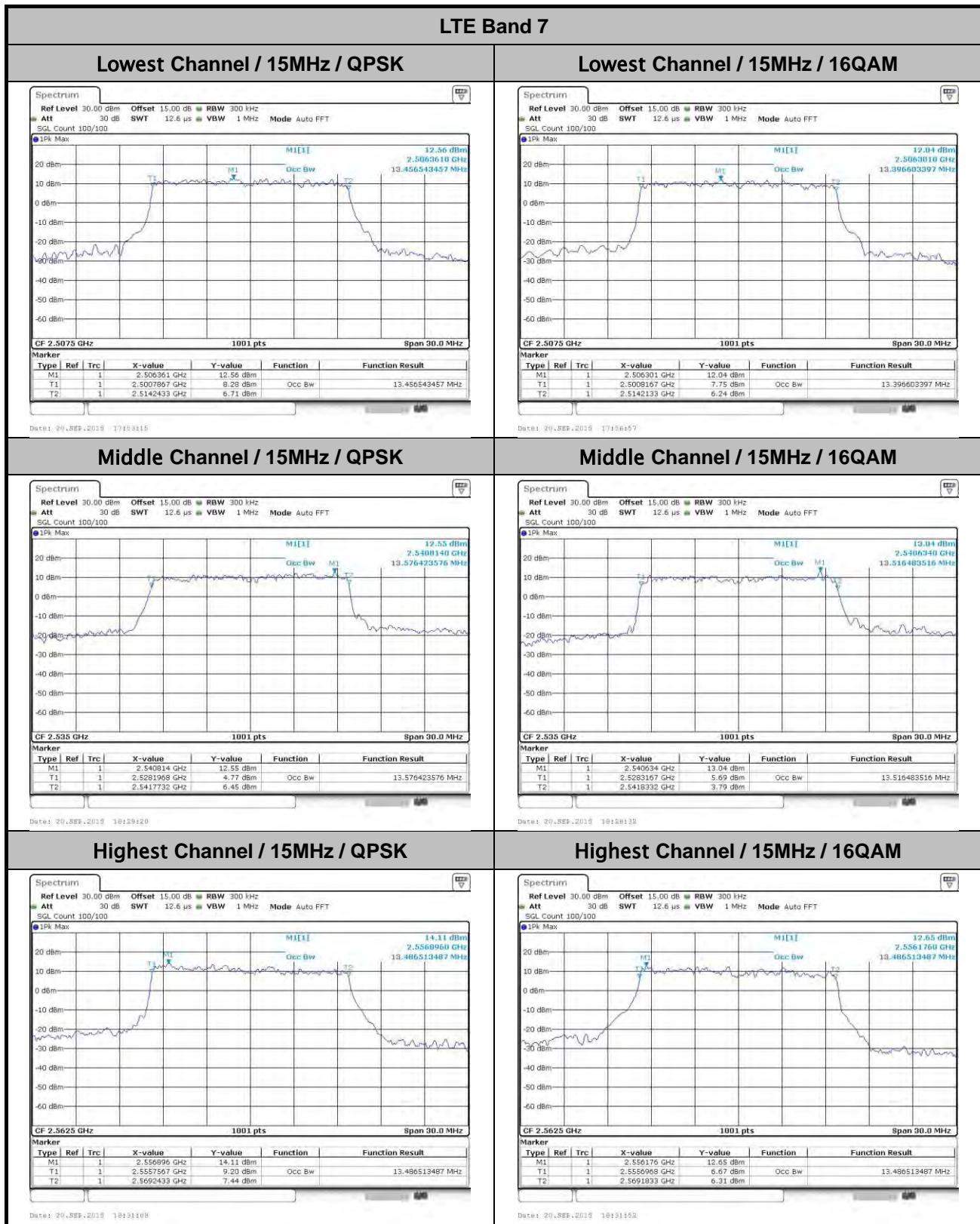


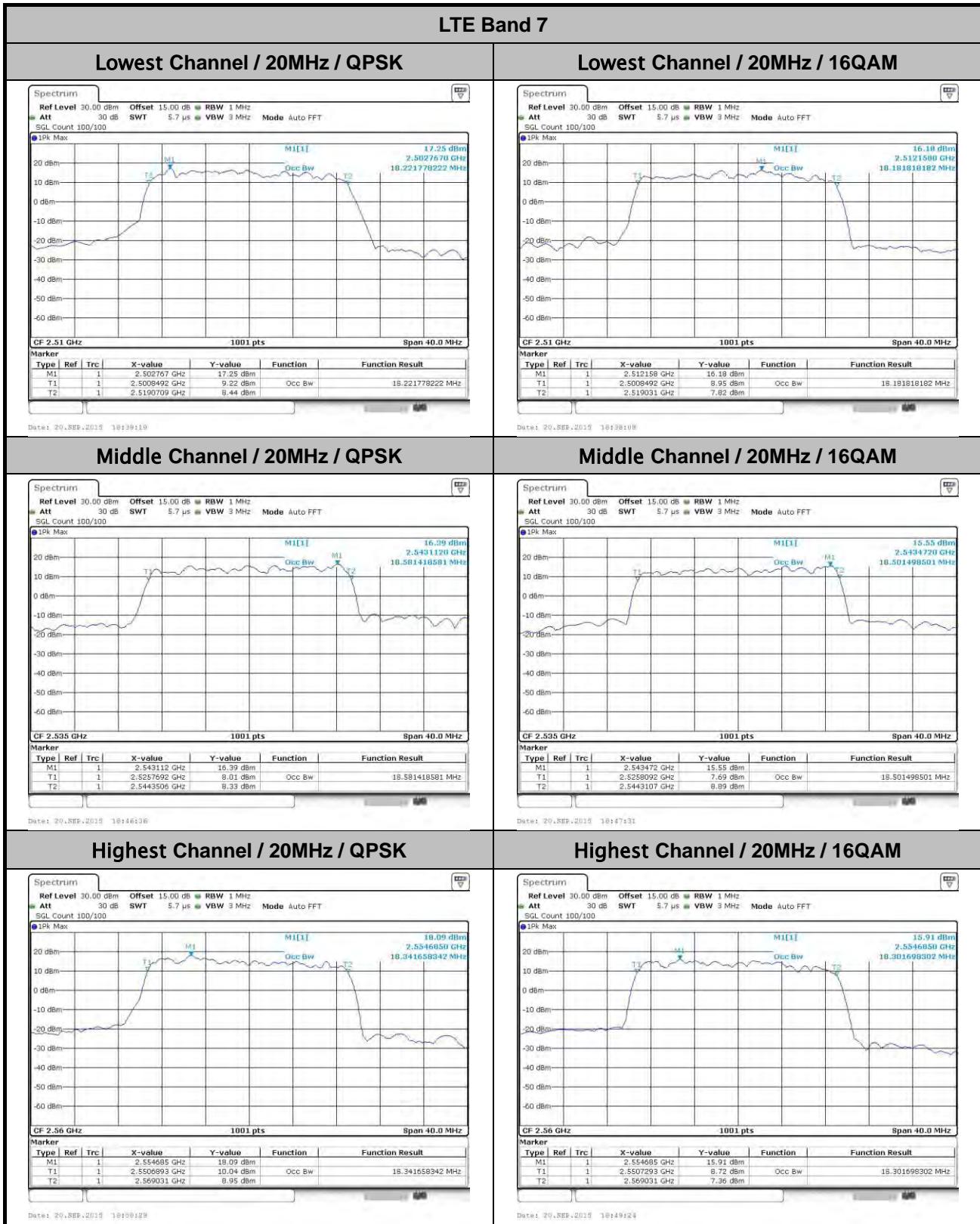
**Occupied Bandwidth**

Mode	LTE Band 7 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.50	9.03	8.97	13.46	13.40	18.22	18.18
Middle CH	-	-	-	-	4.52	4.50	9.09	9.07	13.58	13.52	18.58	18.50
Highest CH	-	-	-	-	4.50	4.49	9.03	9.01	13.49	13.49	18.34	18.30











Conducted Band Edge

