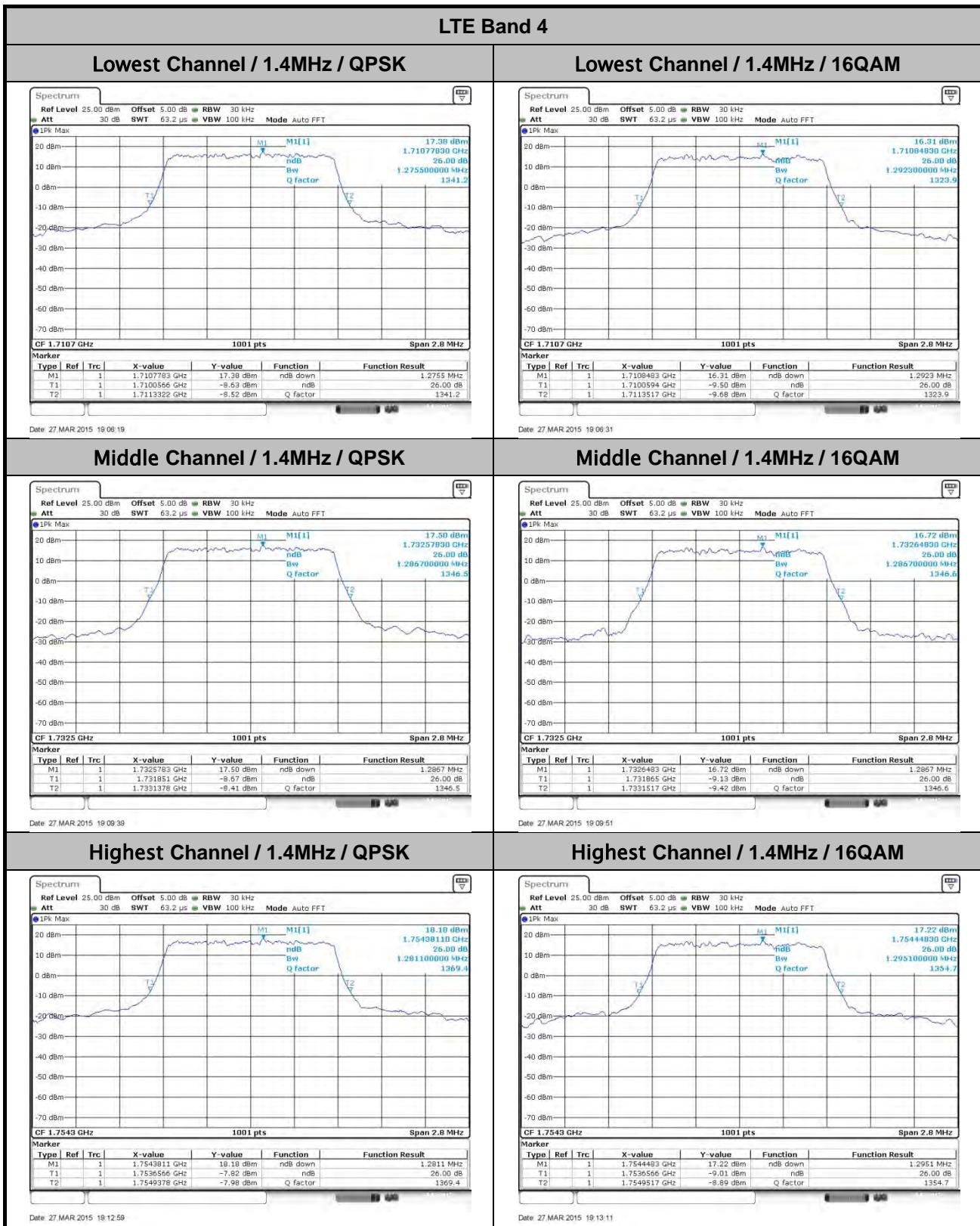
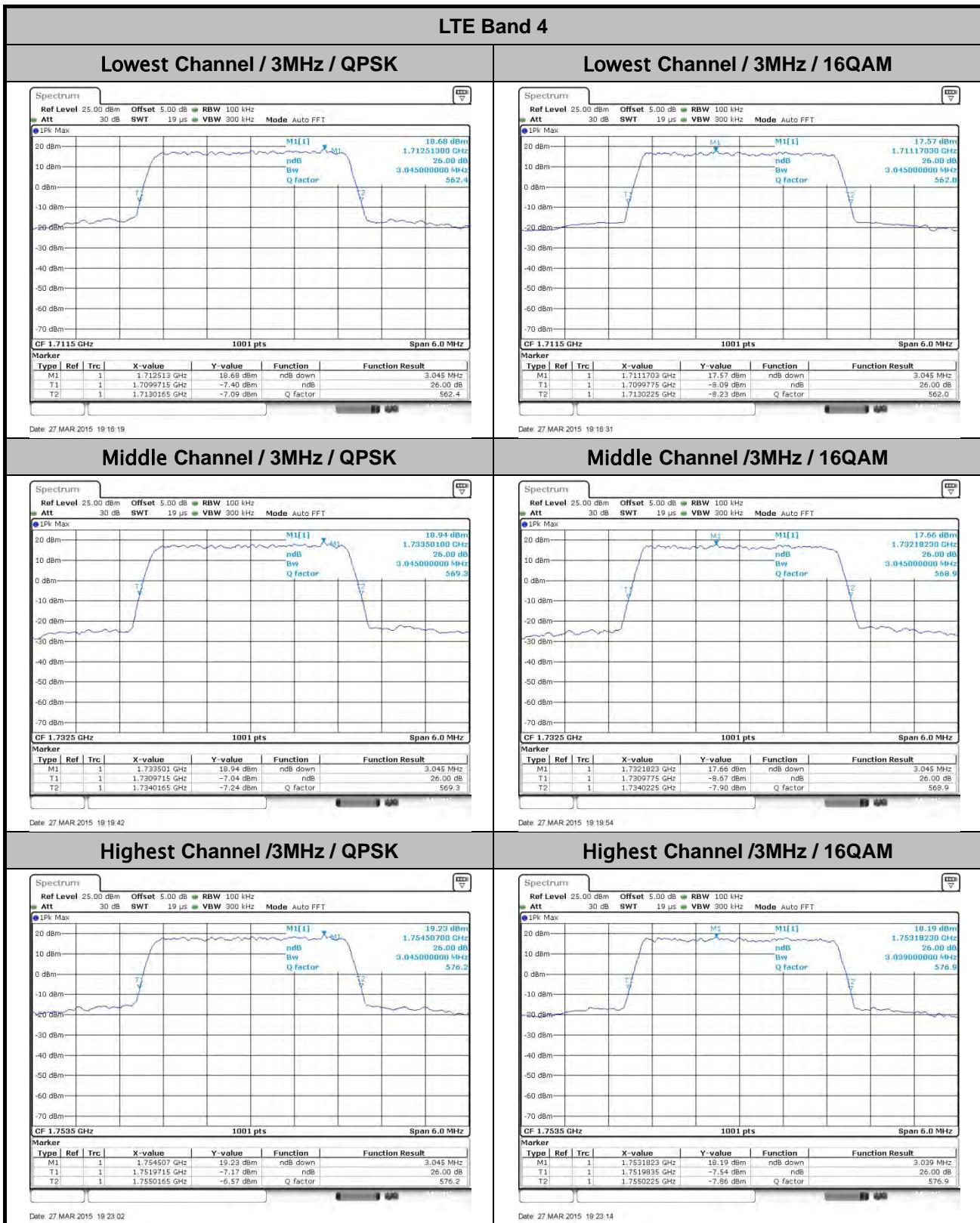
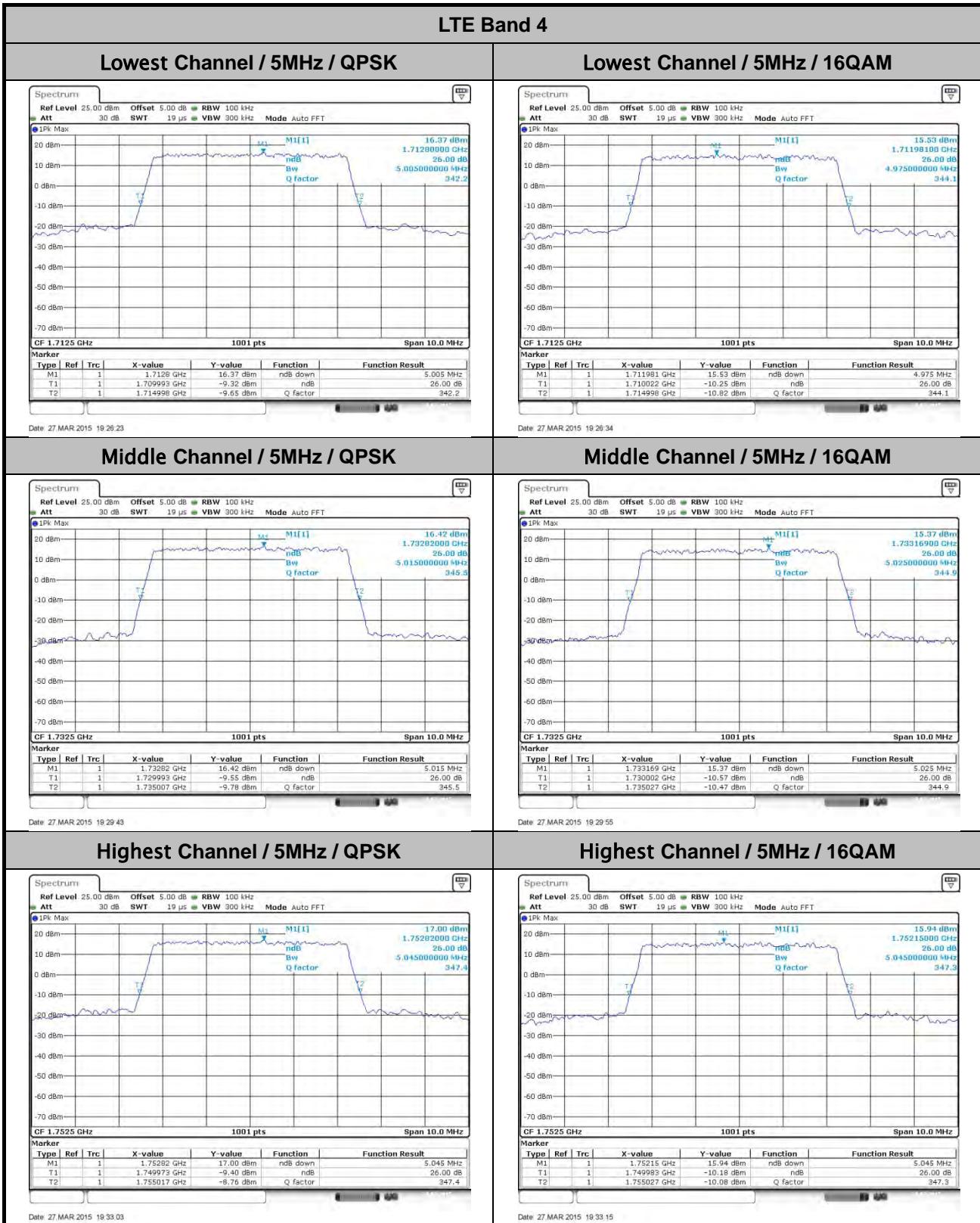


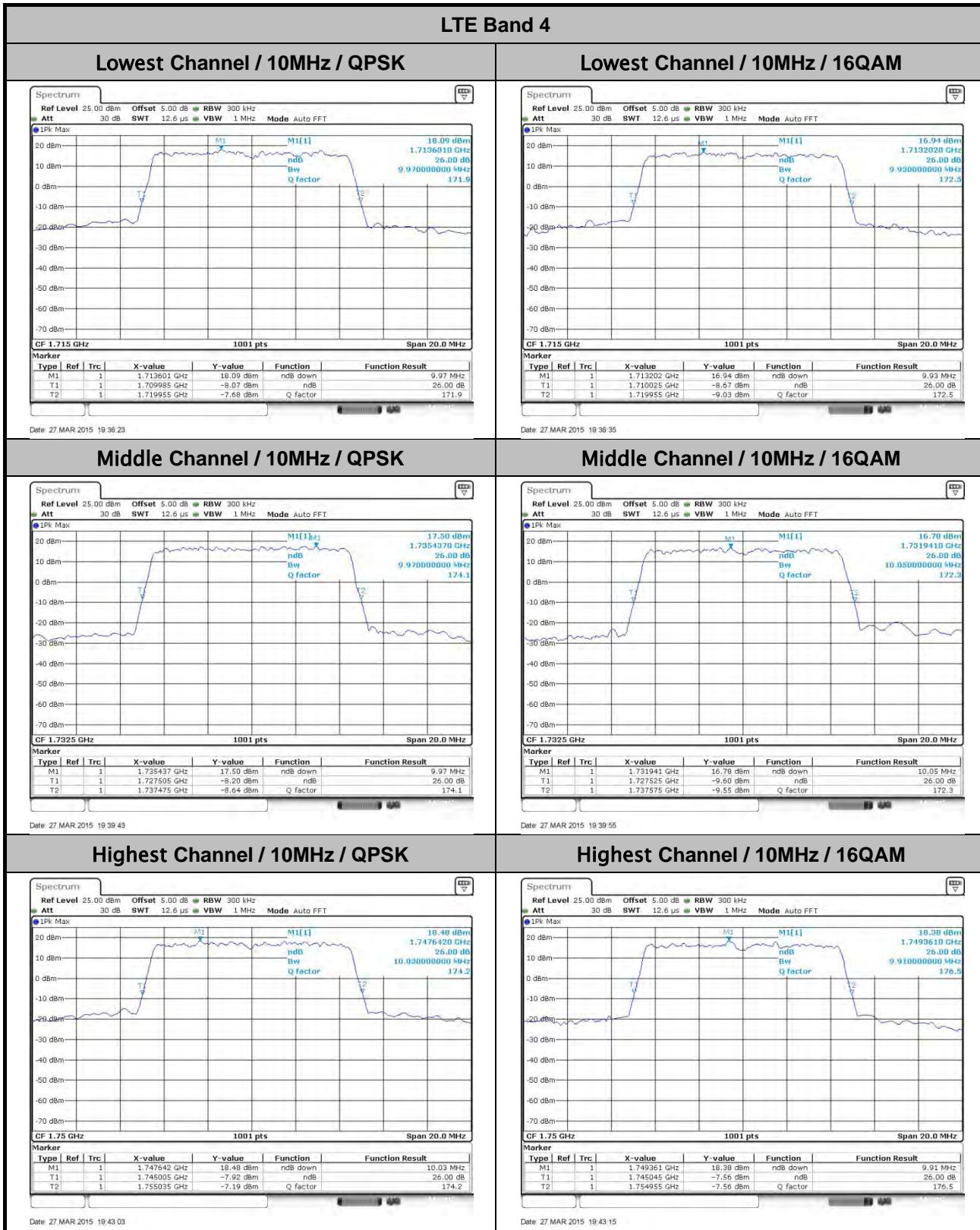
**26dB Bandwidth**

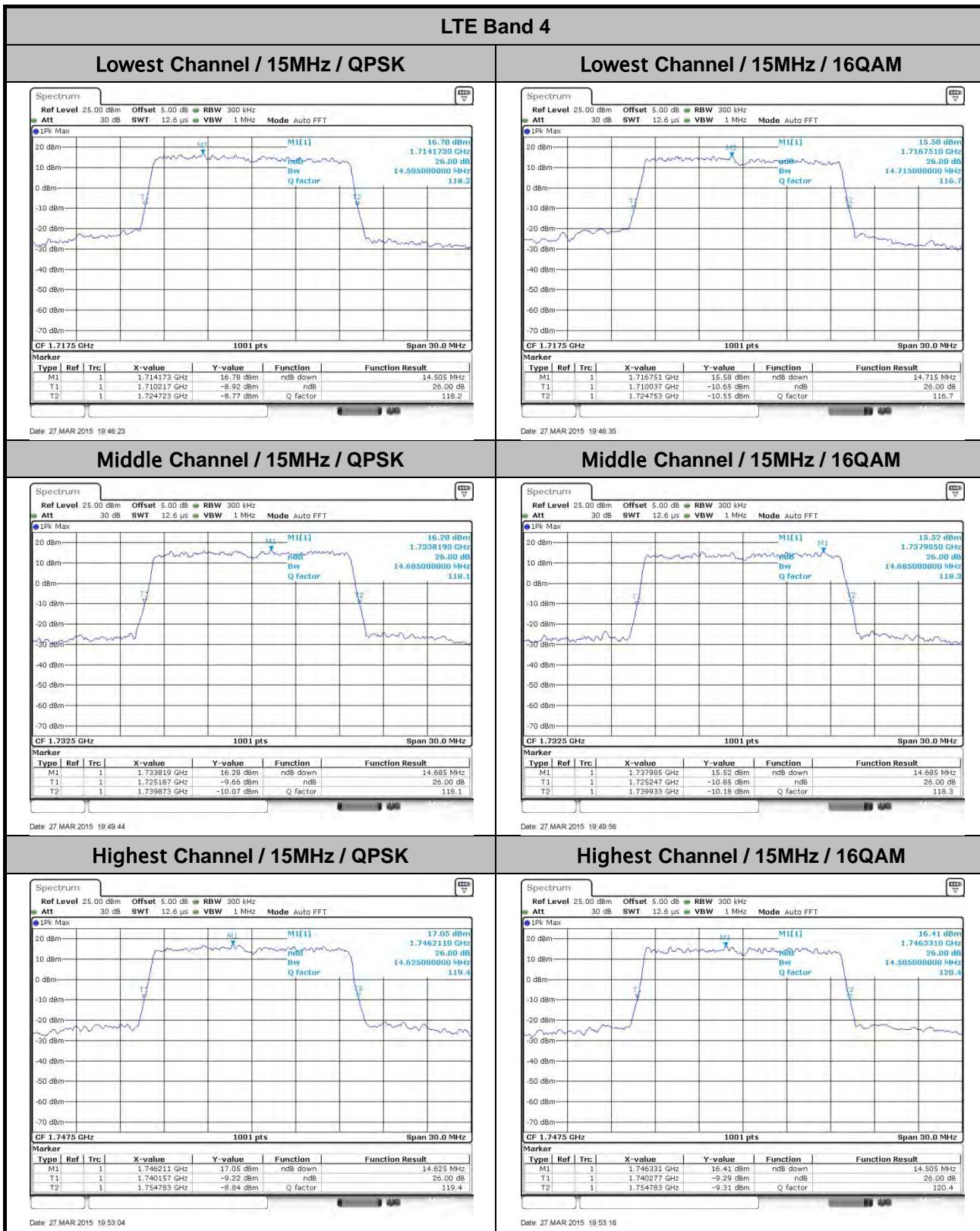
Mode	LTE Band 4 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.29	3.05	3.05	5.01	4.98	9.97	9.93	14.51	14.72	20.30	20.10
Middle CH	1.29	1.29	3.05	3.05	5.02	5.03	9.95	10.05	14.69	14.69	20.42	20.34
Highest CH	1.28	1.30	3.05	3.04	5.05	5.05	10.03	9.91	14.63	14.51	20.22	20.18

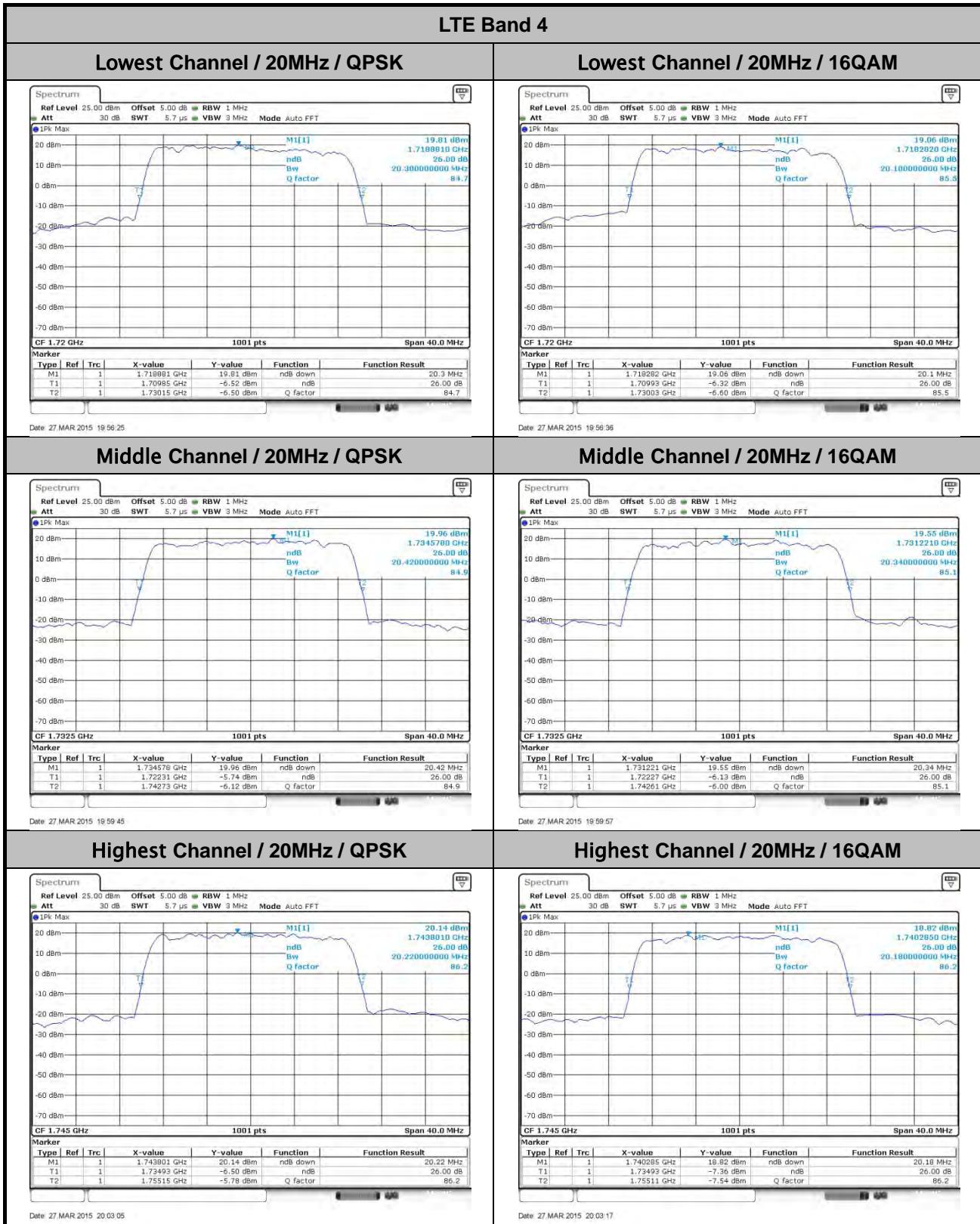






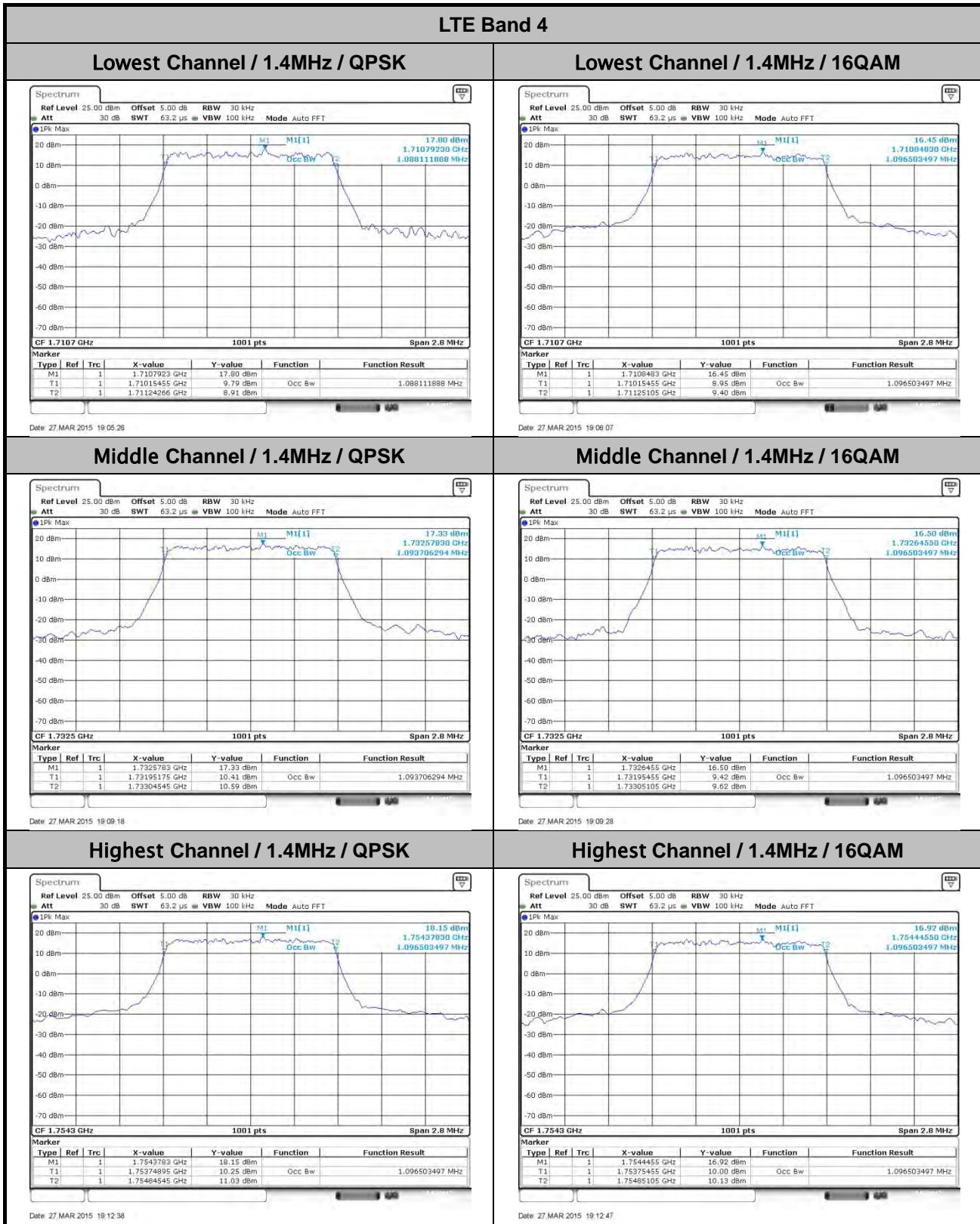


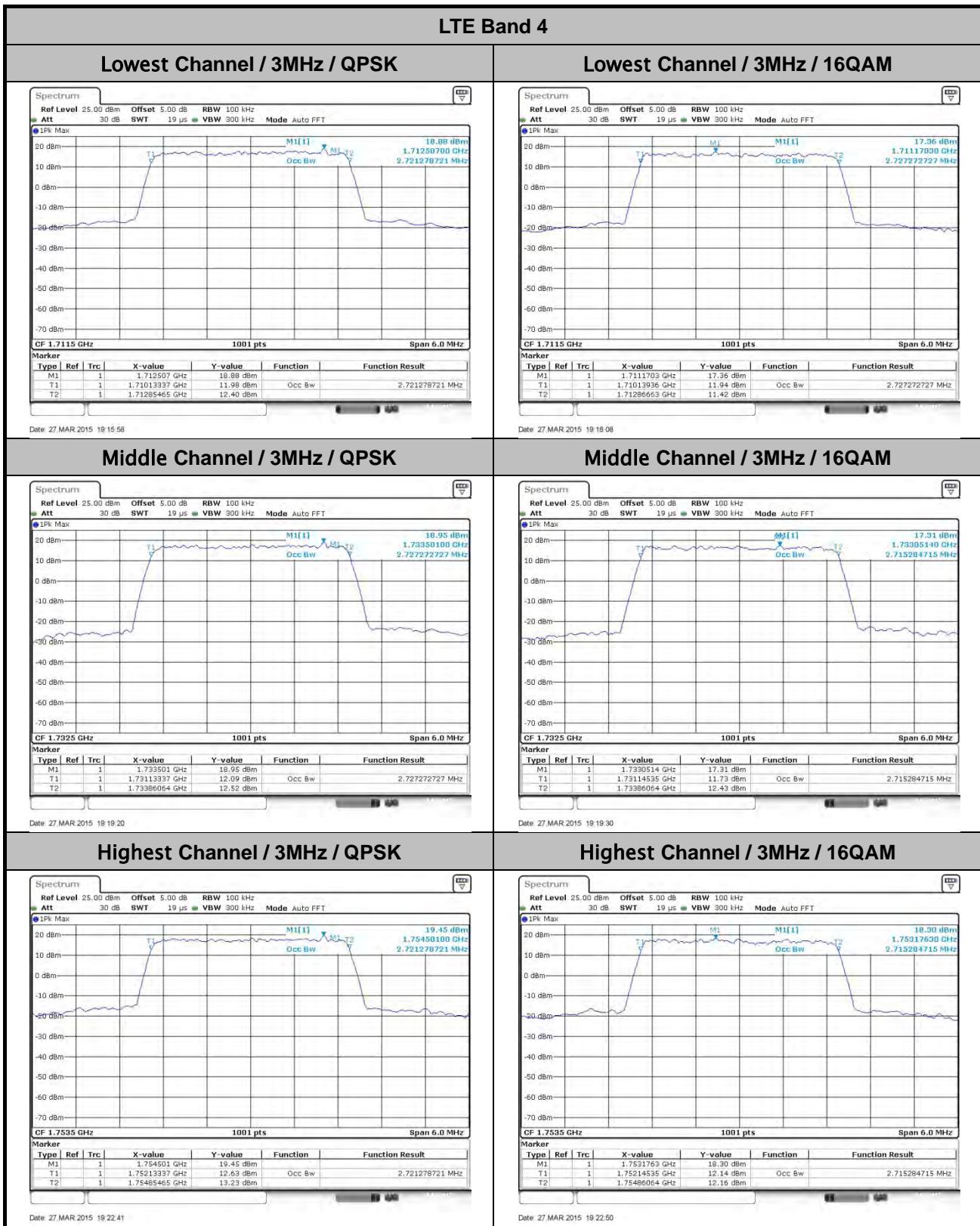


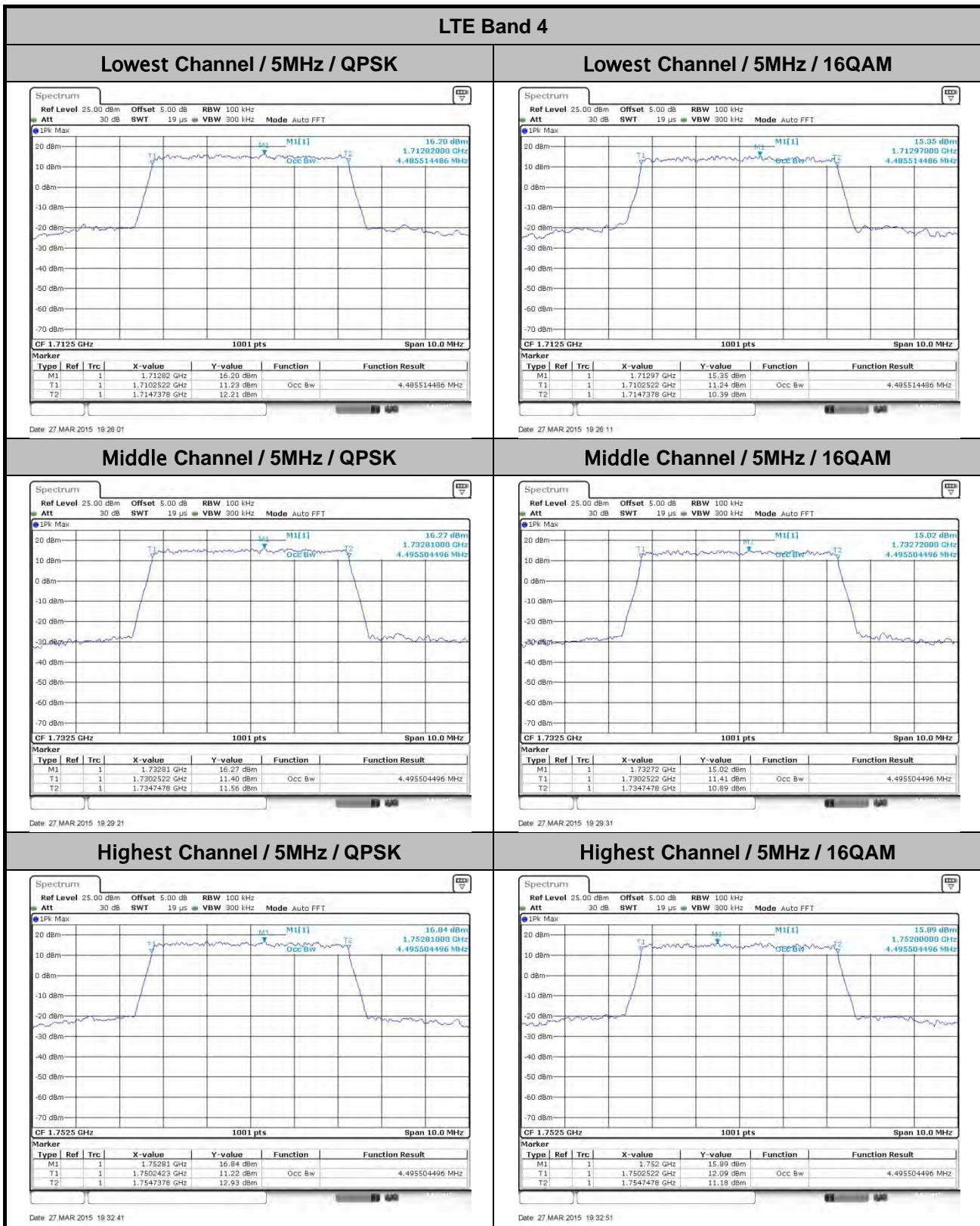


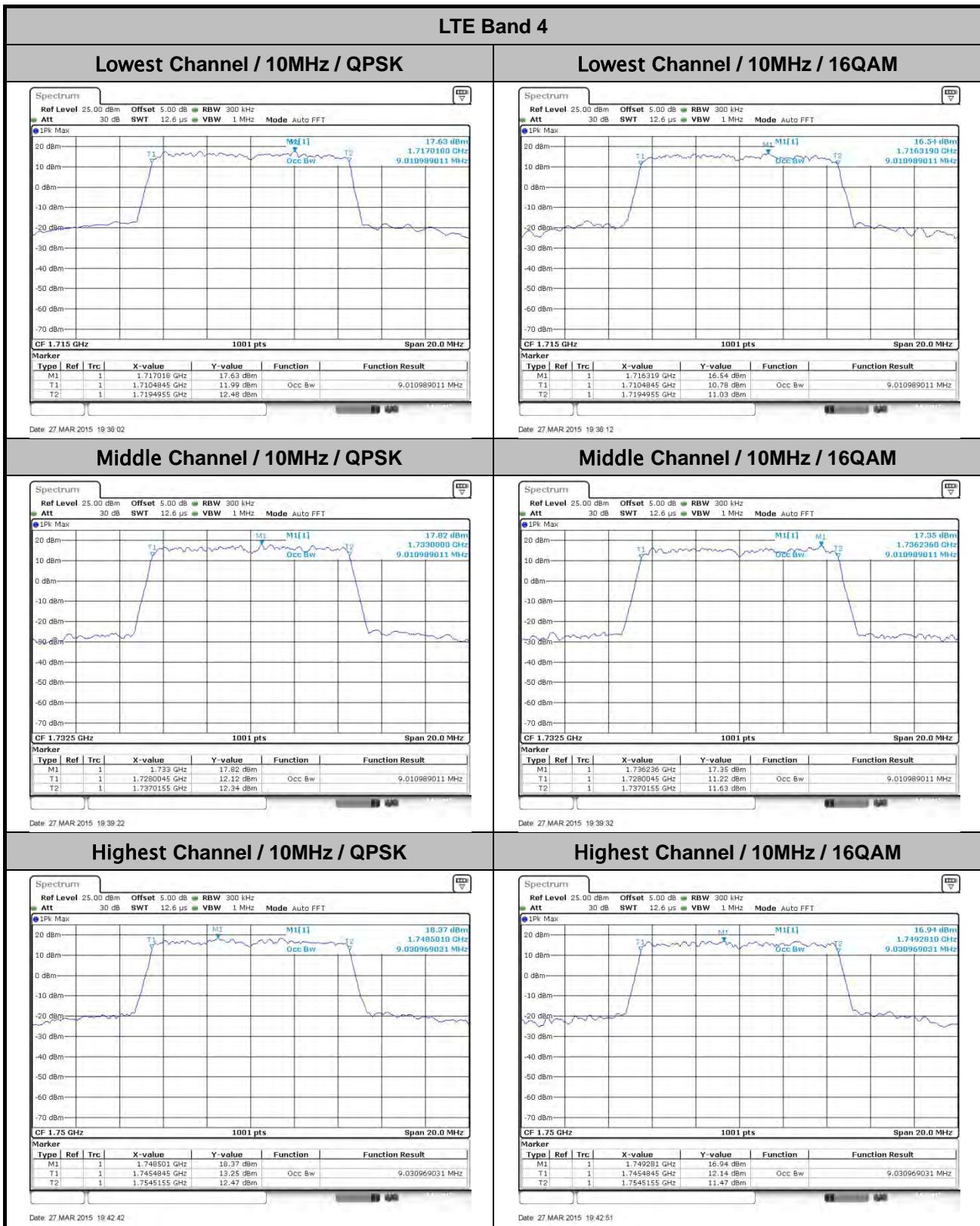
**Occupied Bandwidth**

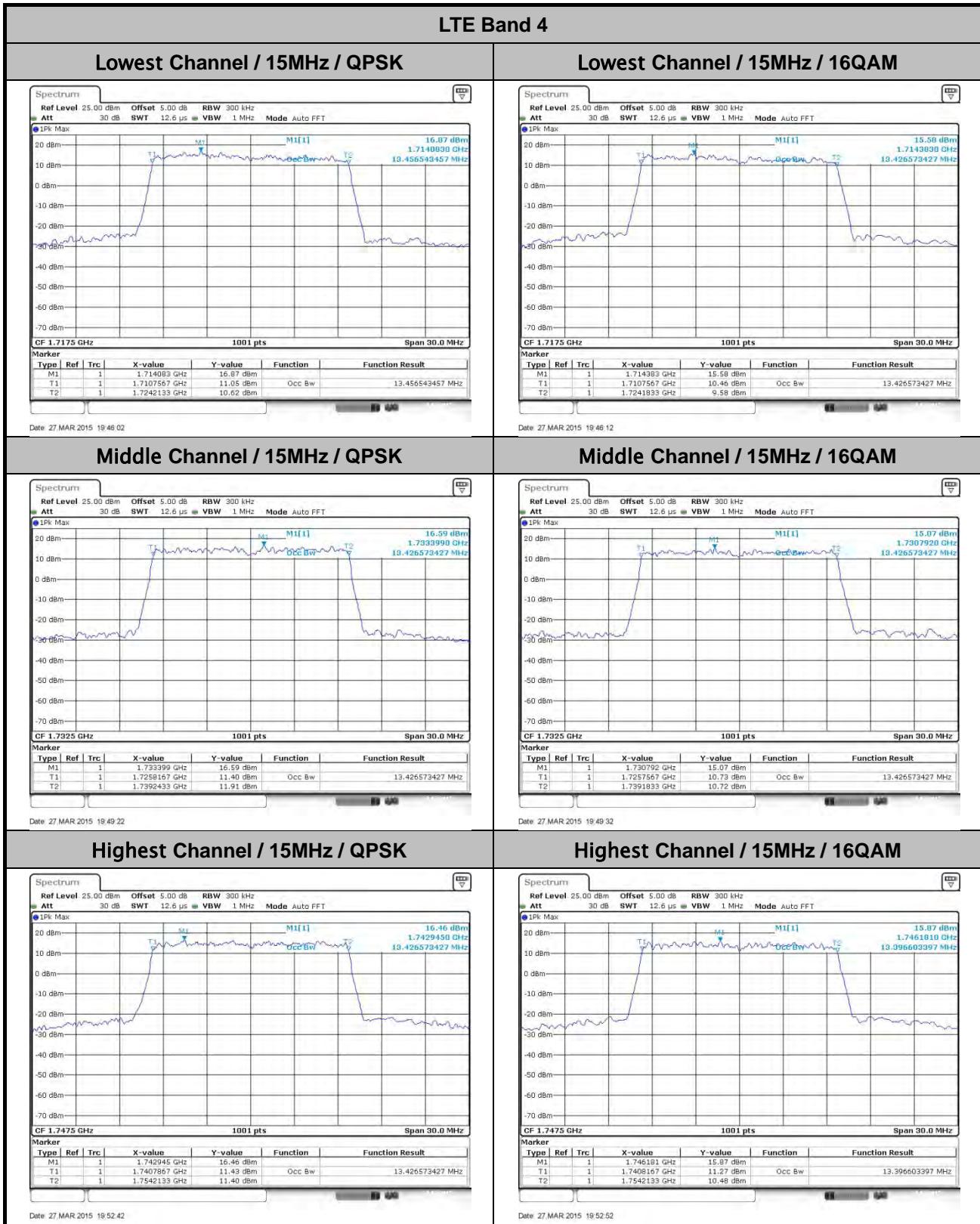
Mode	LTE Band 4 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.72	2.73	4.49	4.49	9.01	9.01	13.46	13.43	18.22	18.34
Middle CH	1.09	1.10	2.73	2.72	4.50	4.50	9.01	9.01	13.43	13.43	18.34	18.38
Highest CH	1.10	1.10	2.72	2.72	4.50	4.50	9.03	9.03	13.43	13.40	18.22	18.22

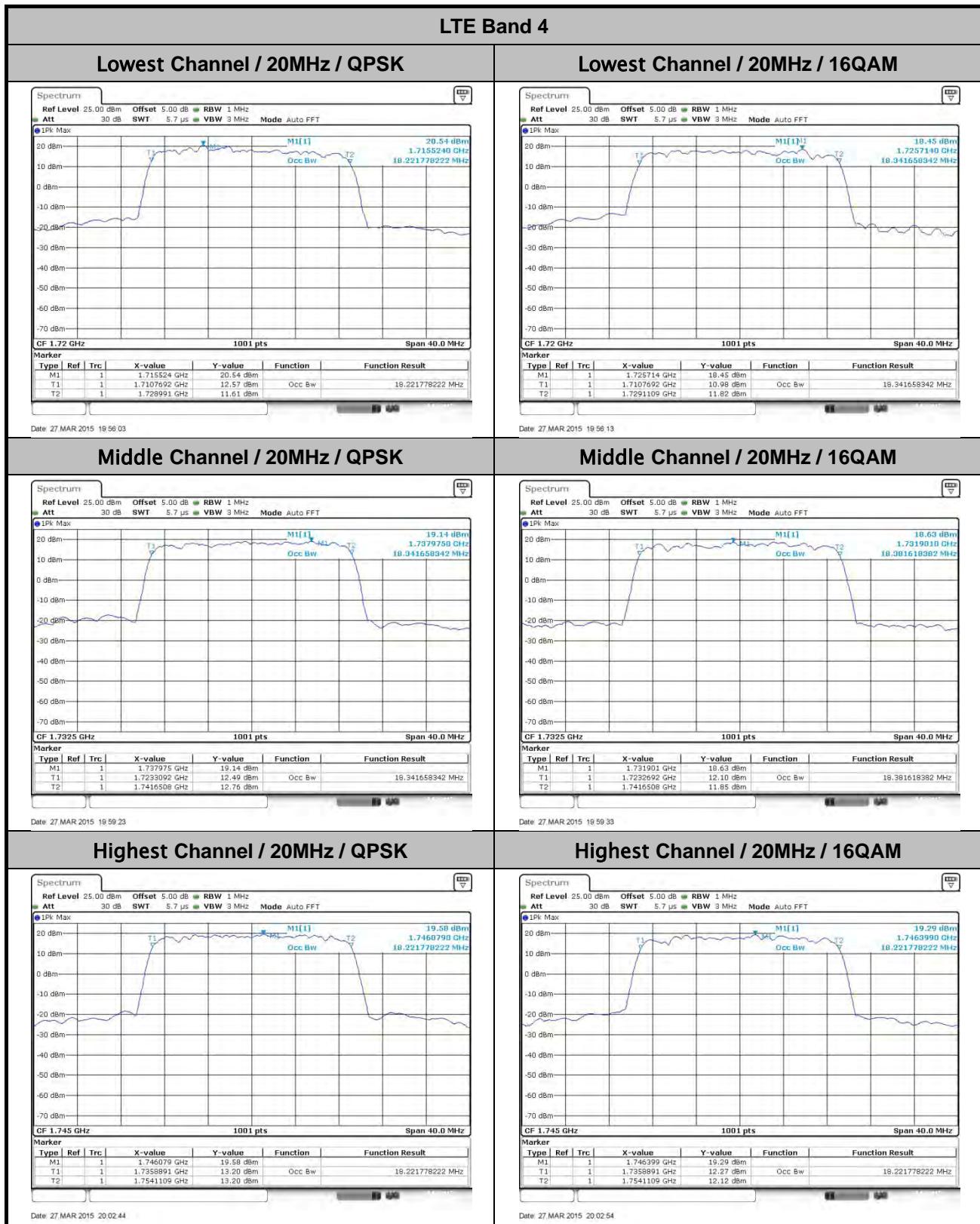






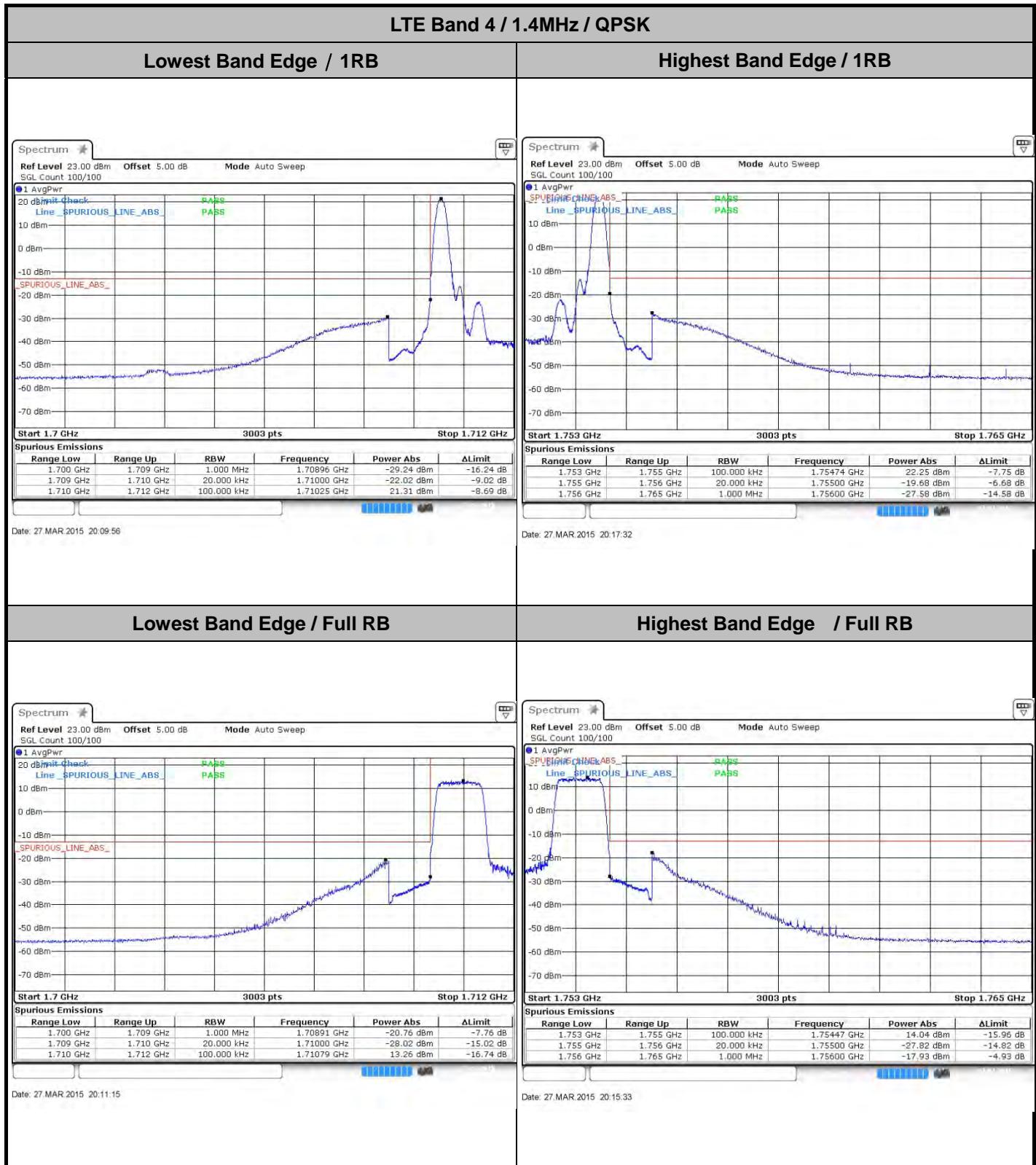


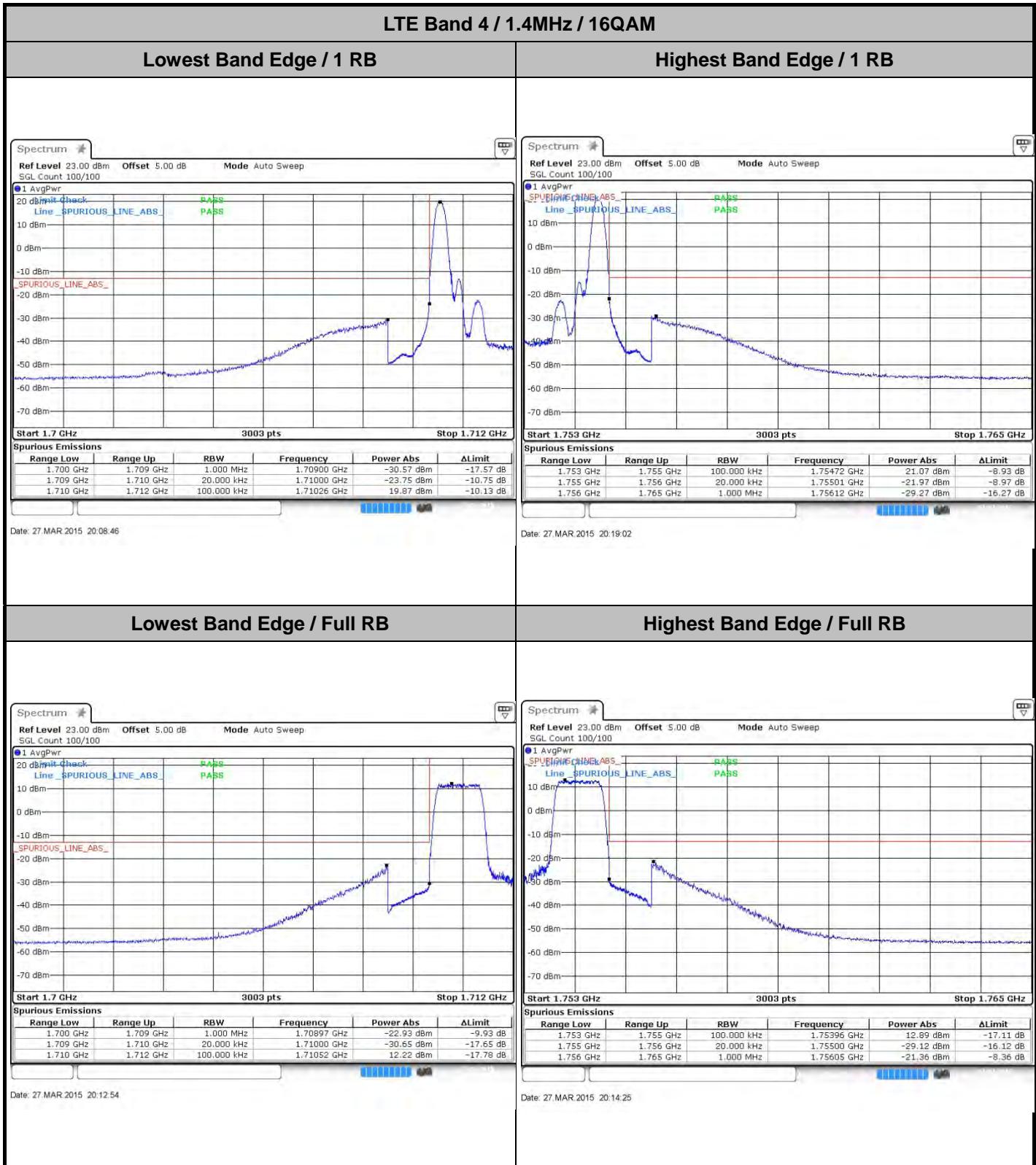


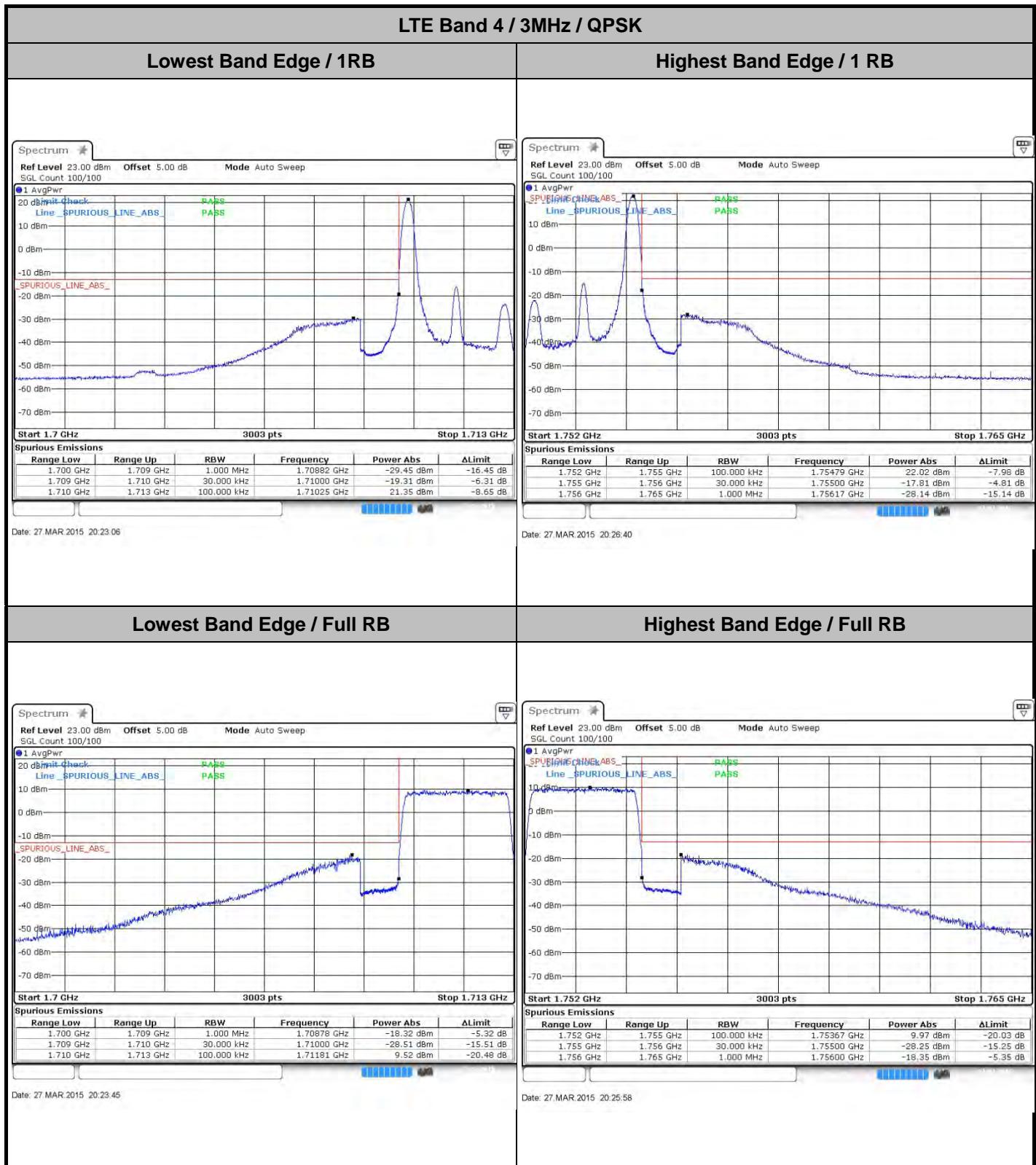


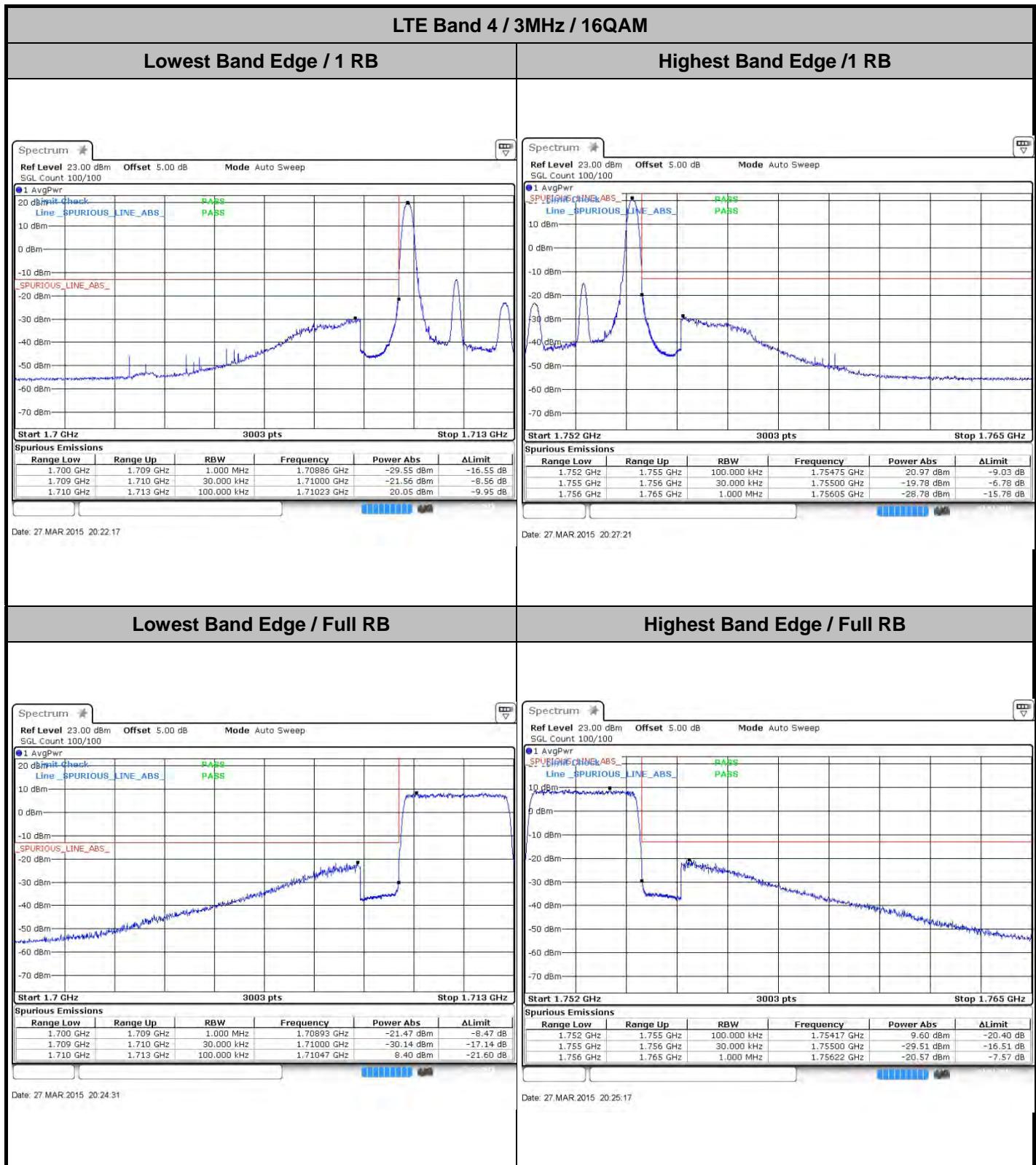


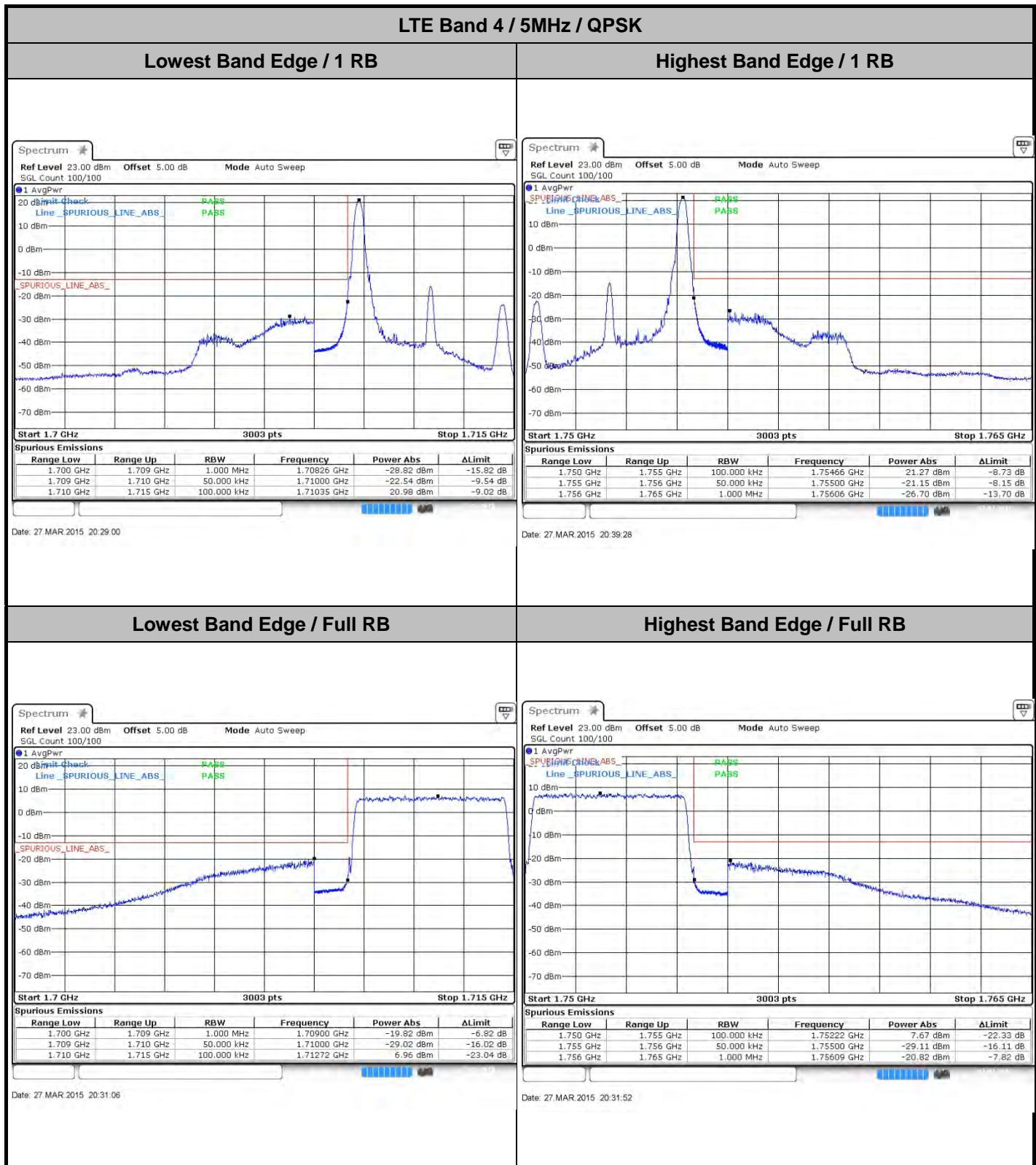
Conducted Band Edge

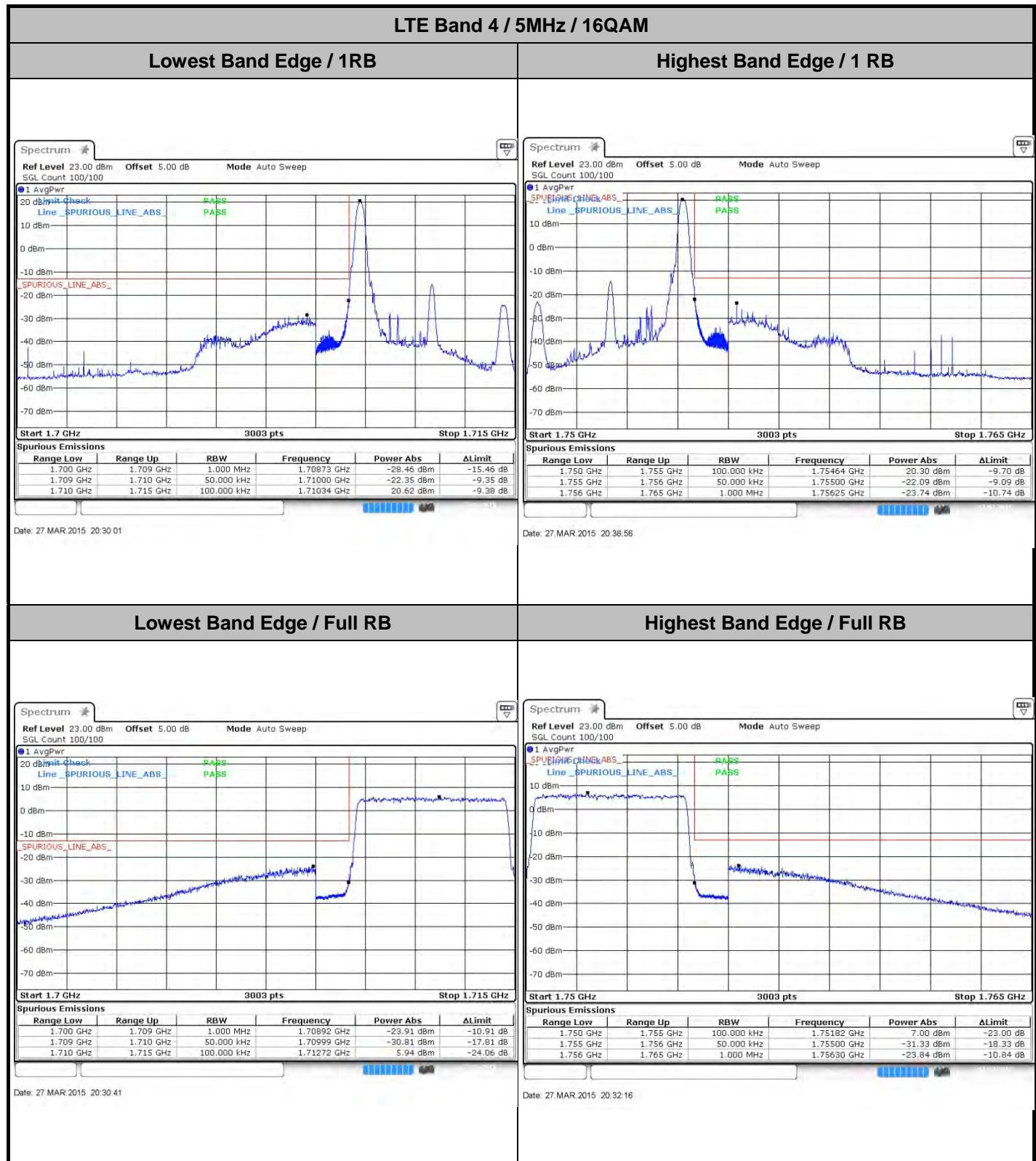


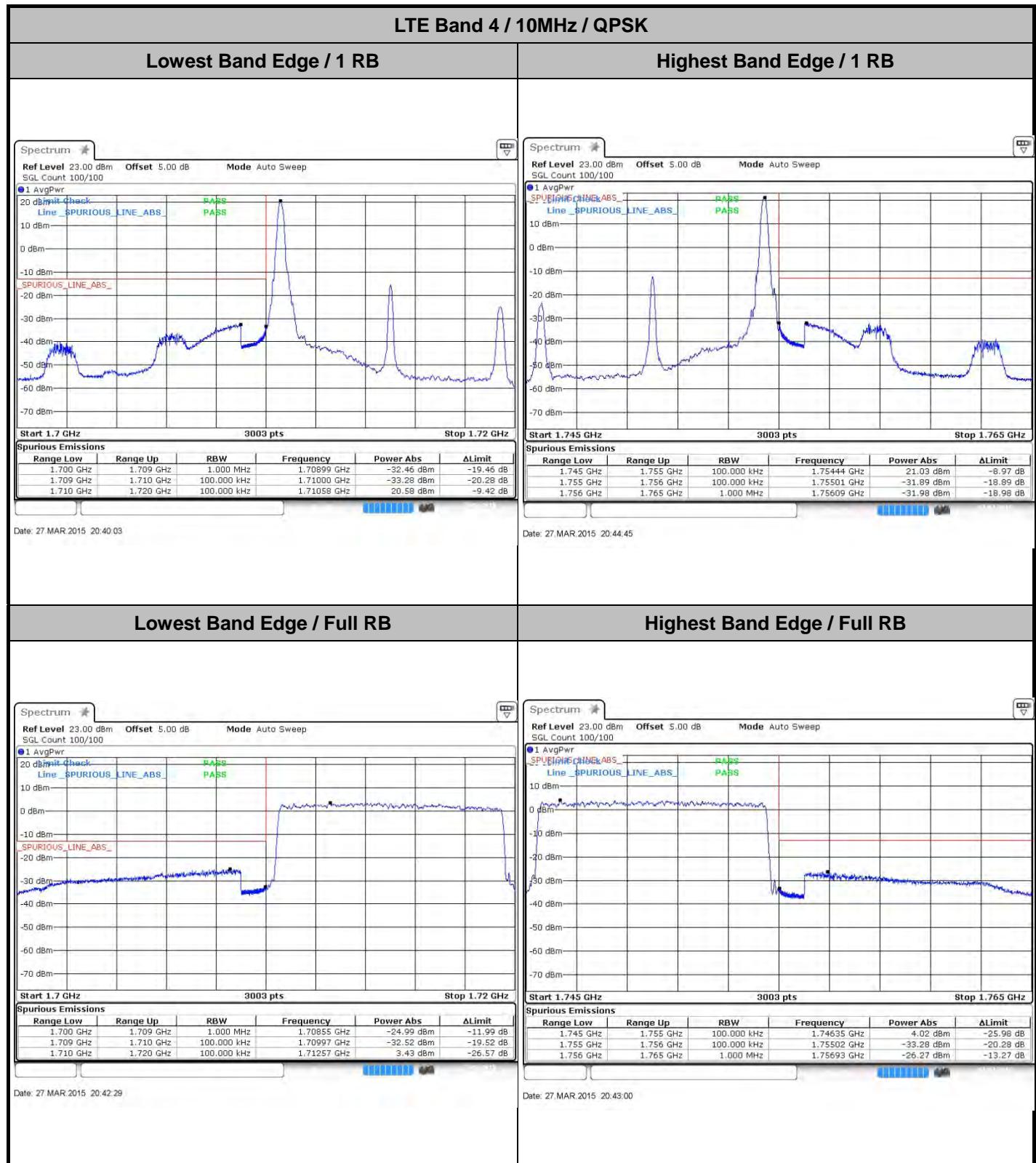


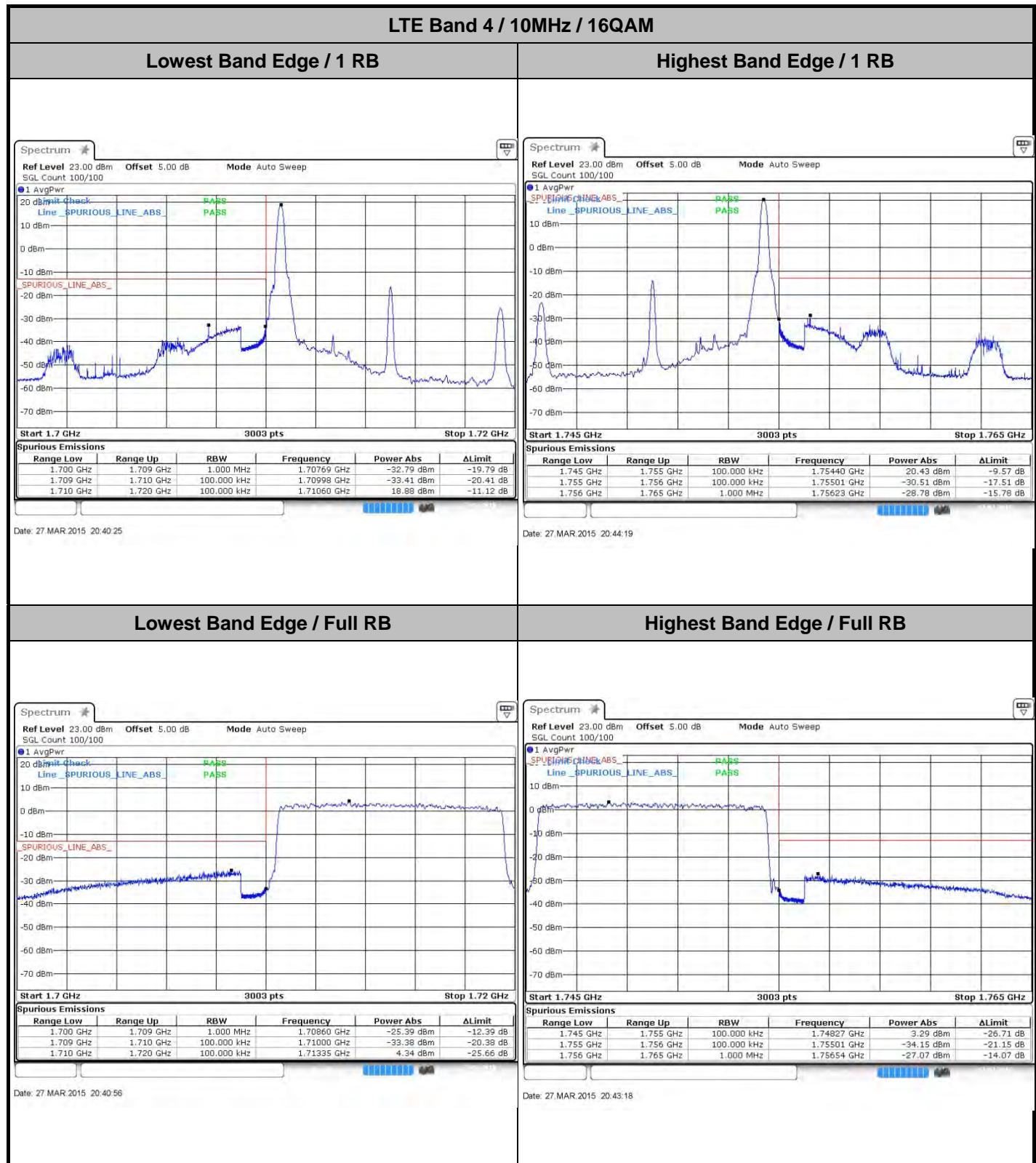


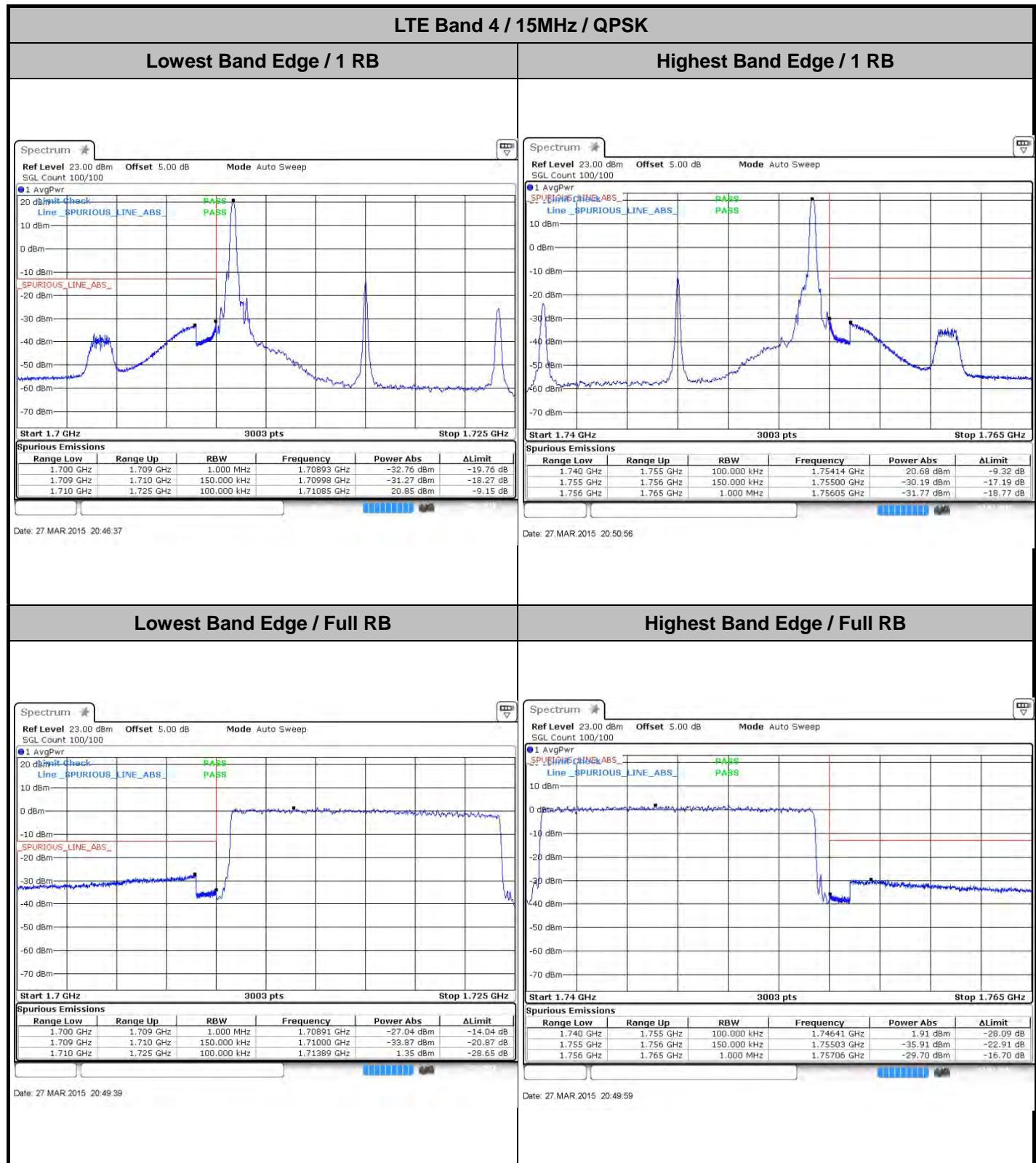


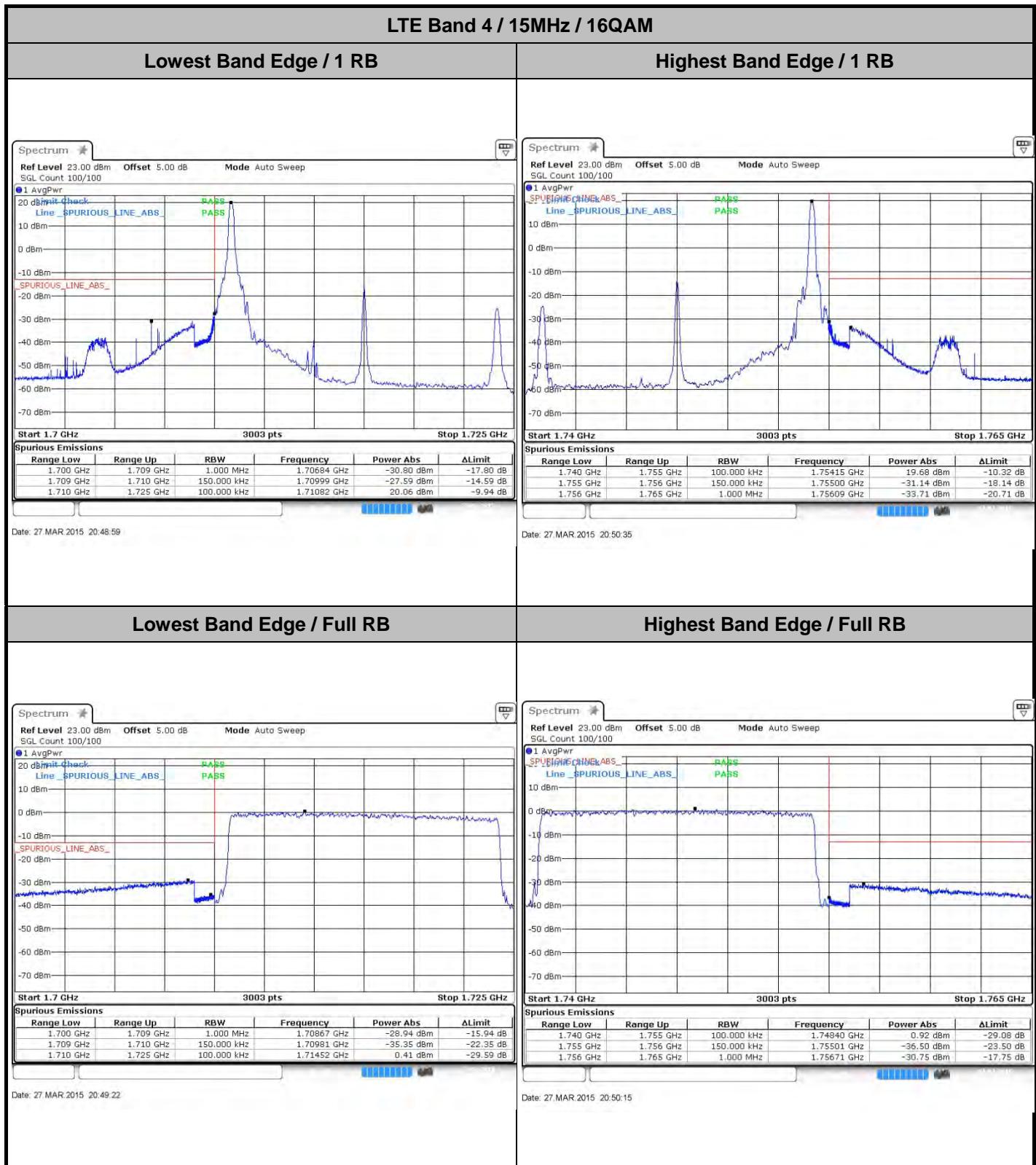


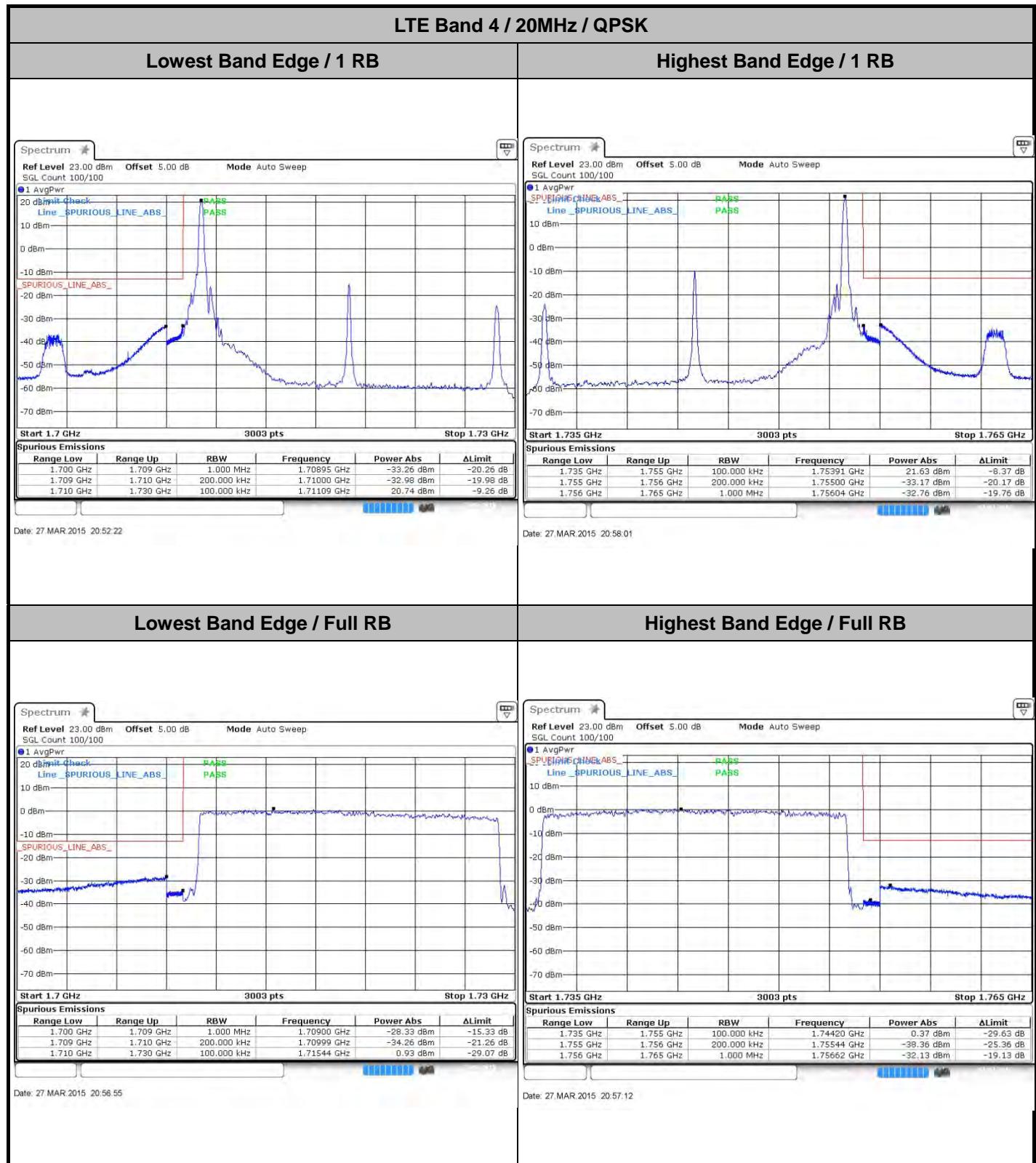


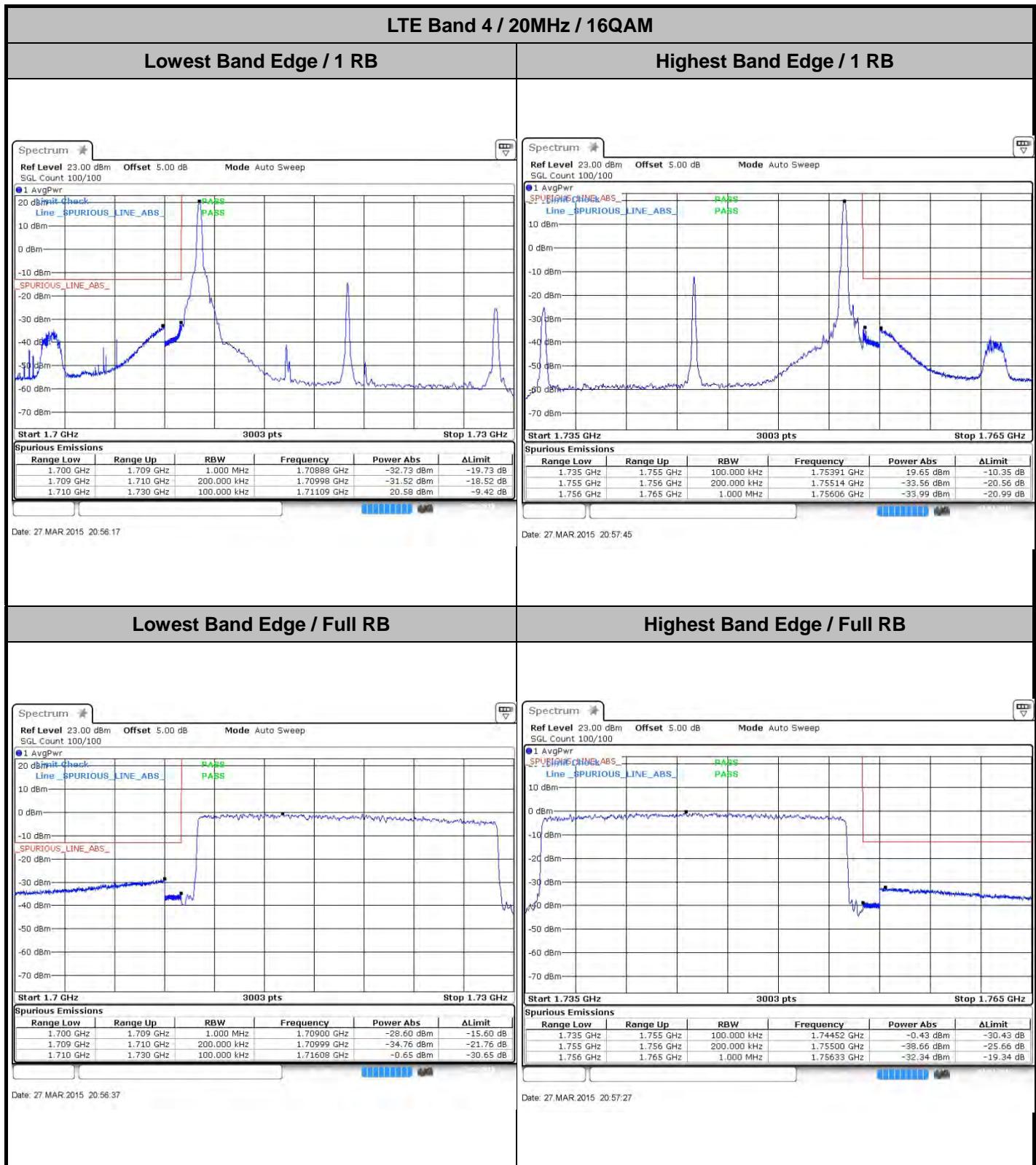












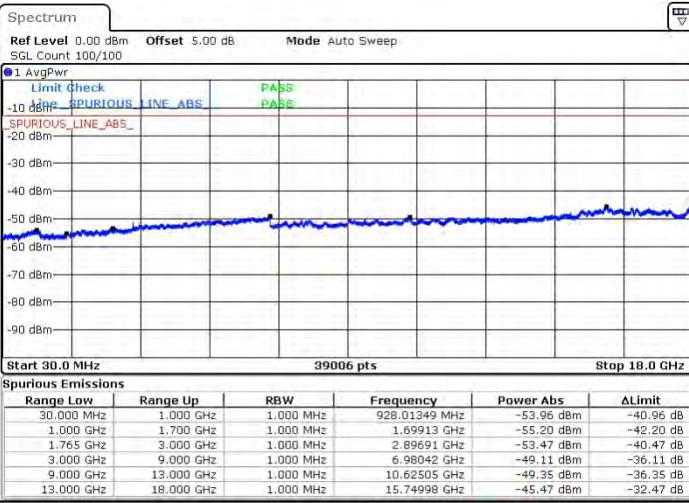
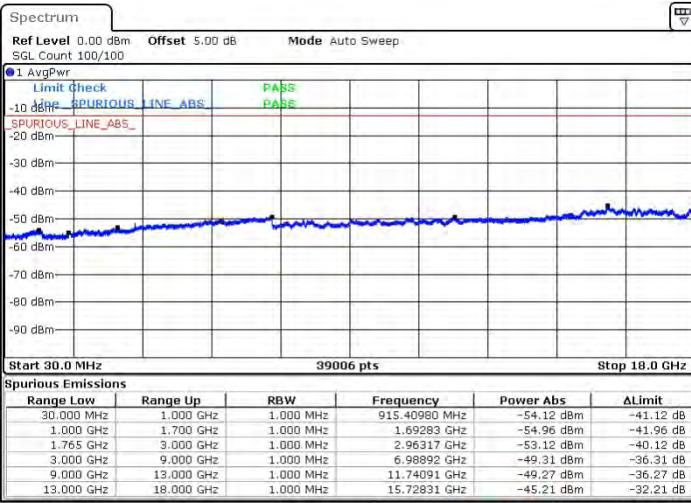


Conducted Spurious Emission

LTE Band 4 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

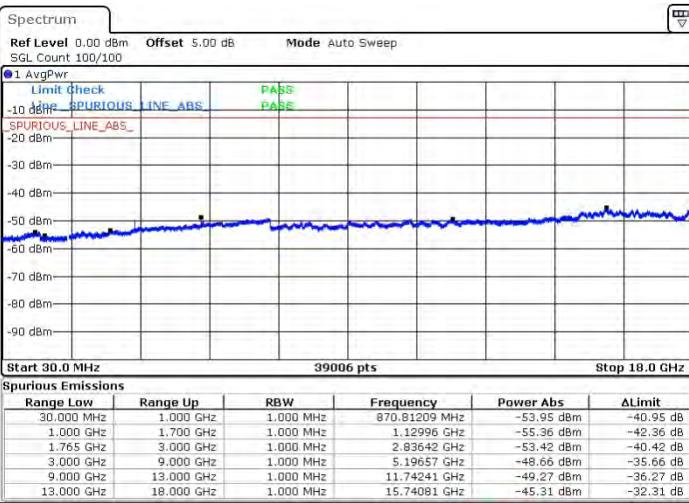
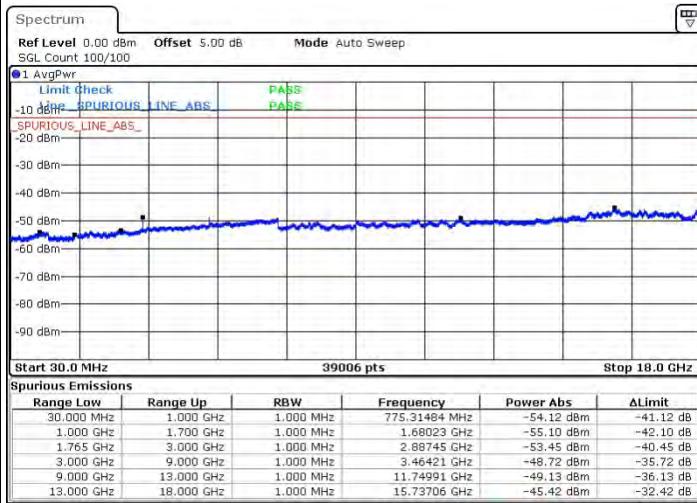


Date: 27 MAR.2015 19:07:39

Date: 27 MAR.2015 19:08:57

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 27 MAR.2015 19:10:59

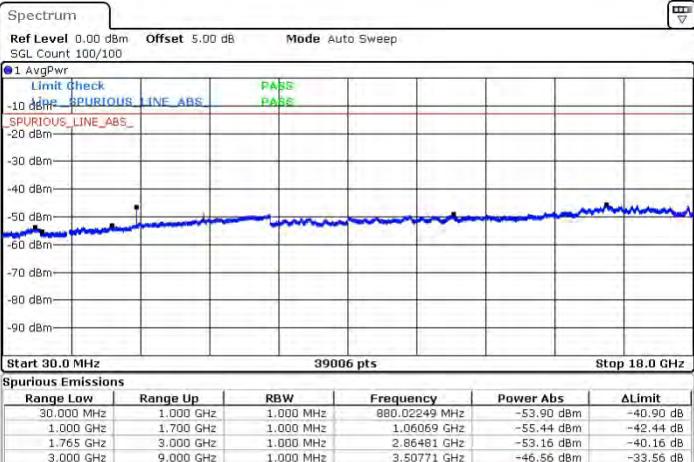
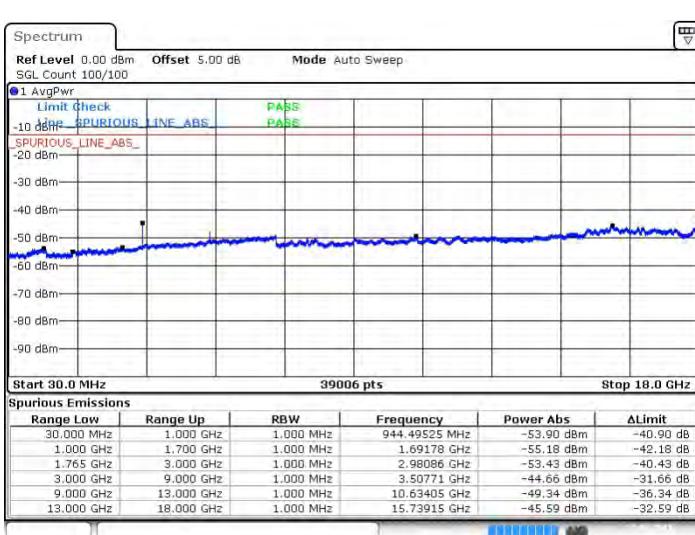
Date: 27 MAR.2015 19:12:17



LTE Band 4 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM

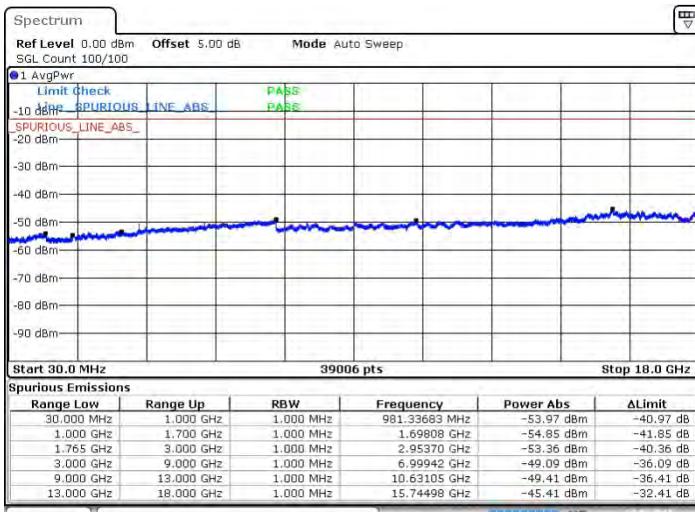


Date: 27 MAR 2015 19:14:19

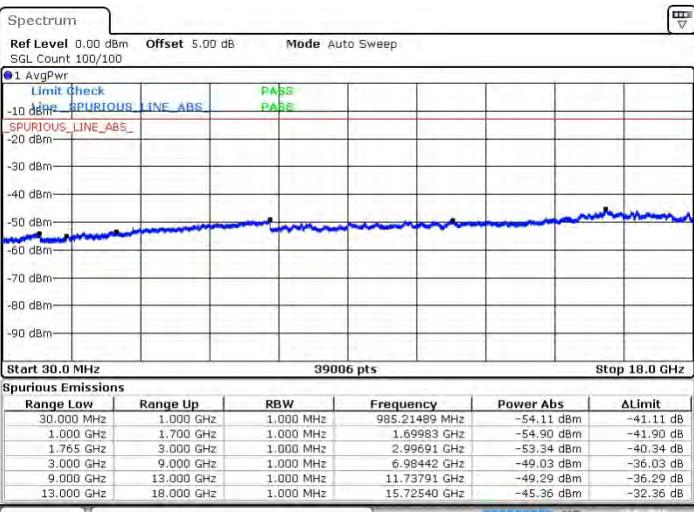
LTE Band 4 / 3MHz

Lowest Channel / QPSK

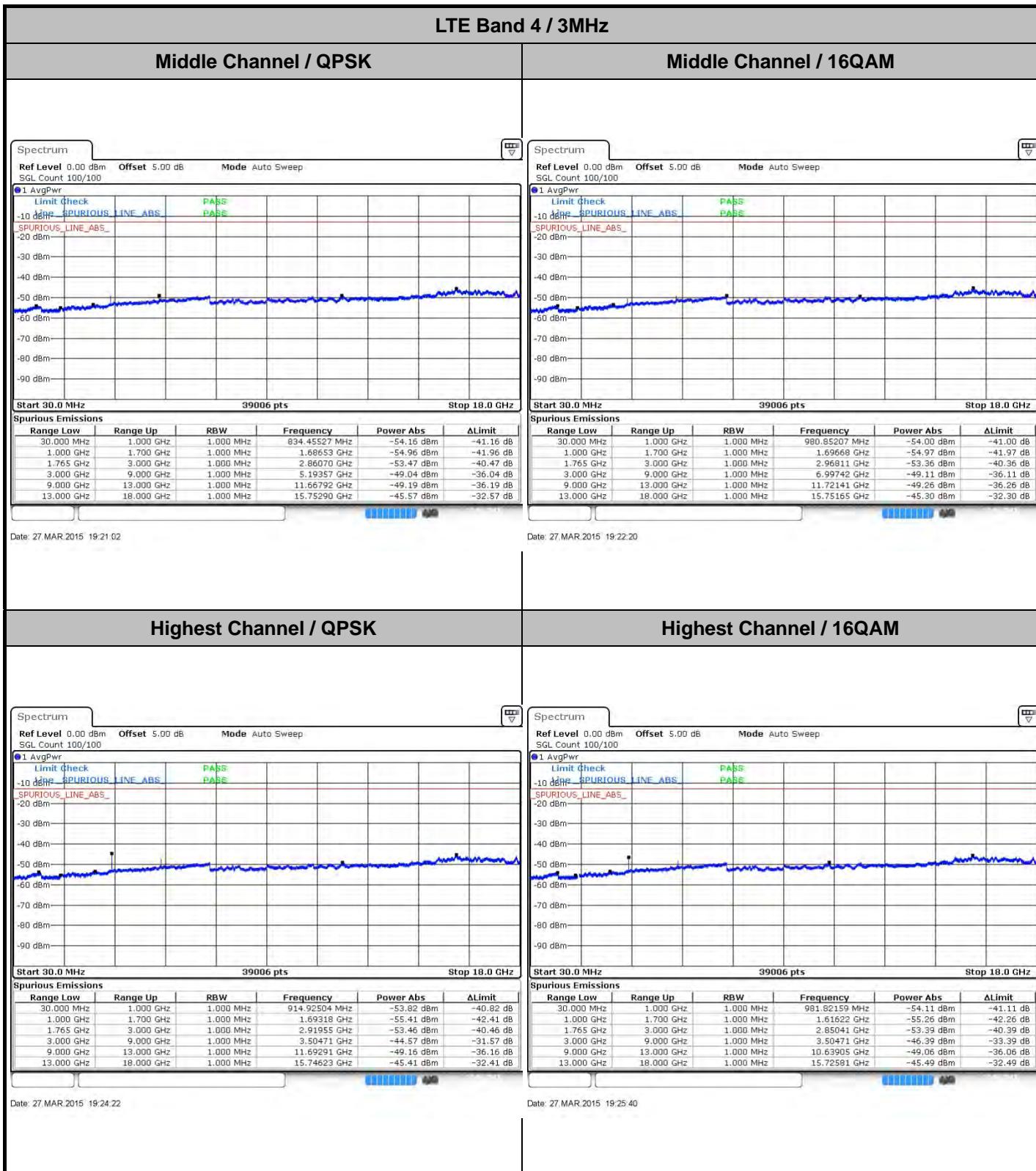
Lowest Channel / 16QAM



Date: 27 MAR 2015 19:17:42



Date: 27 MAR 2015 19:19:00

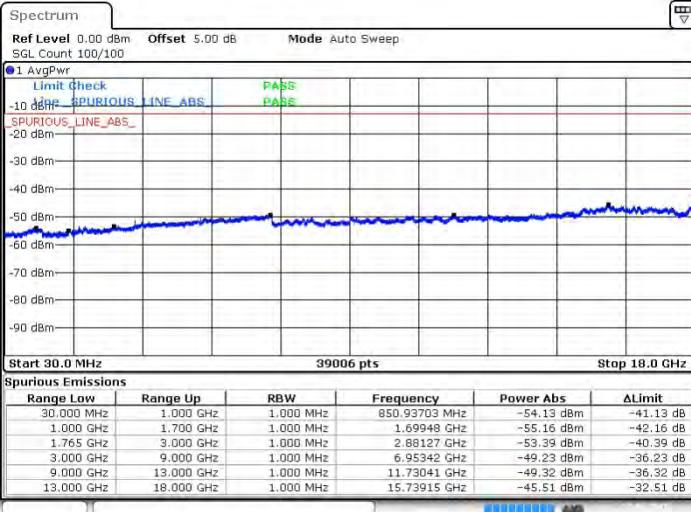
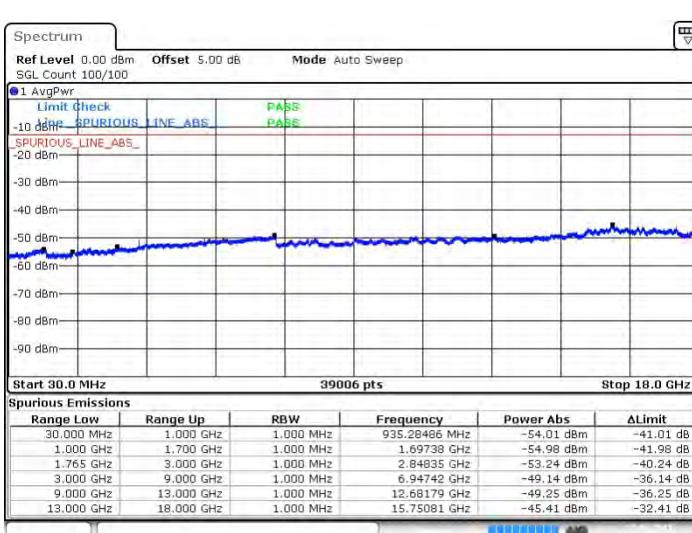




LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

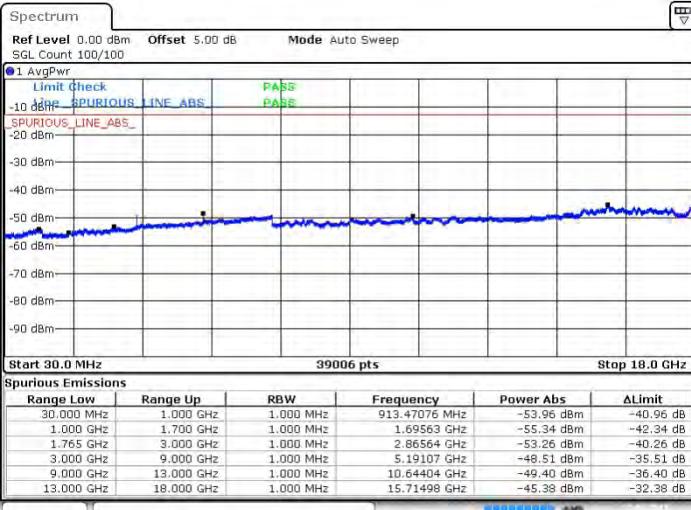
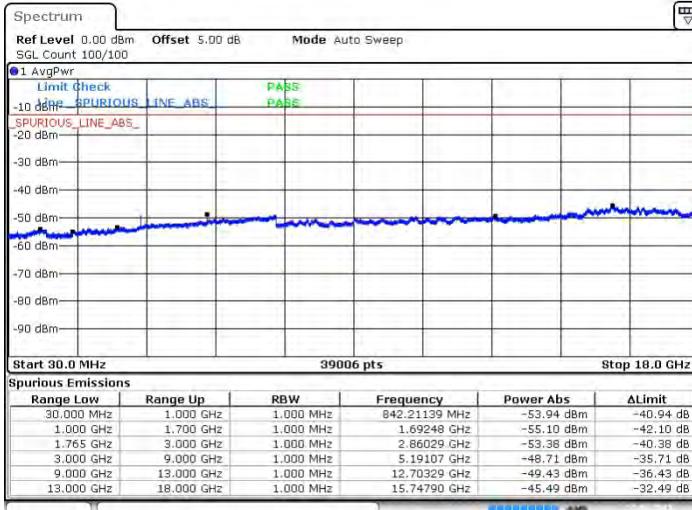


Date: 27 MAR 2015 19:27:42

Date: 27 MAR 2015 19:29:01

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 27 MAR 2015 19:31:03

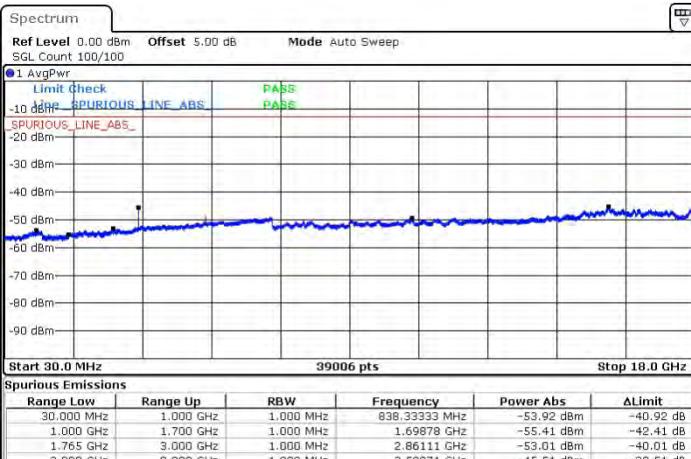
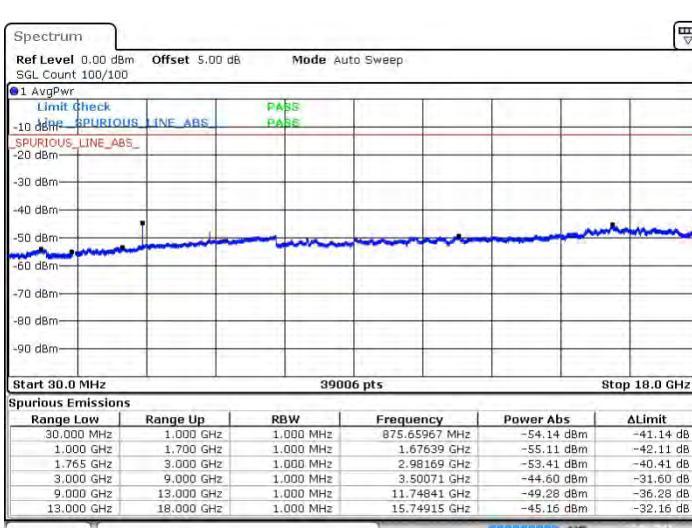
Date: 27 MAR 2015 19:32:21



LTE Band 4 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



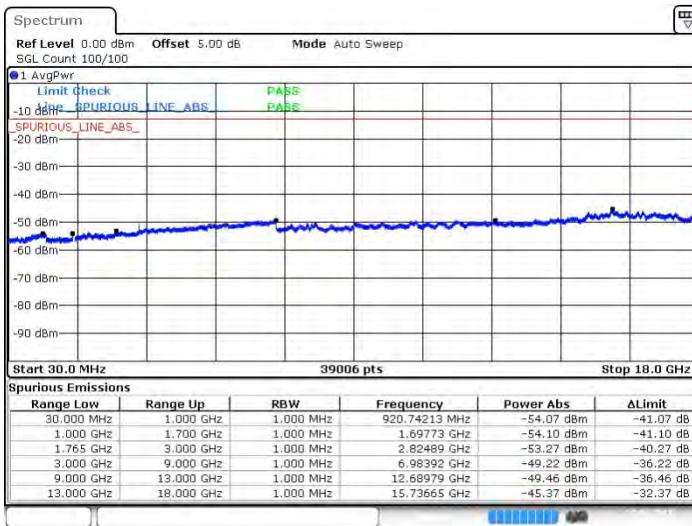
Date: 27 MAR 2015 19:34:23

Date: 27 MAR 2015 19:35:41

LTE Band 4 / 10MHz

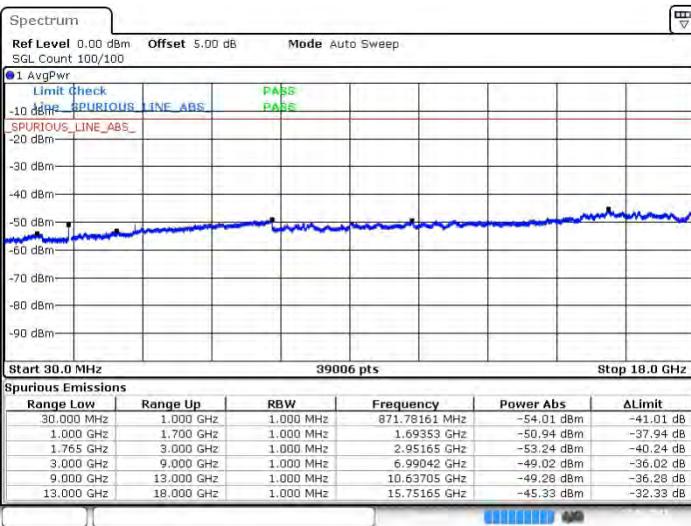
Lowest Channel / QPSK

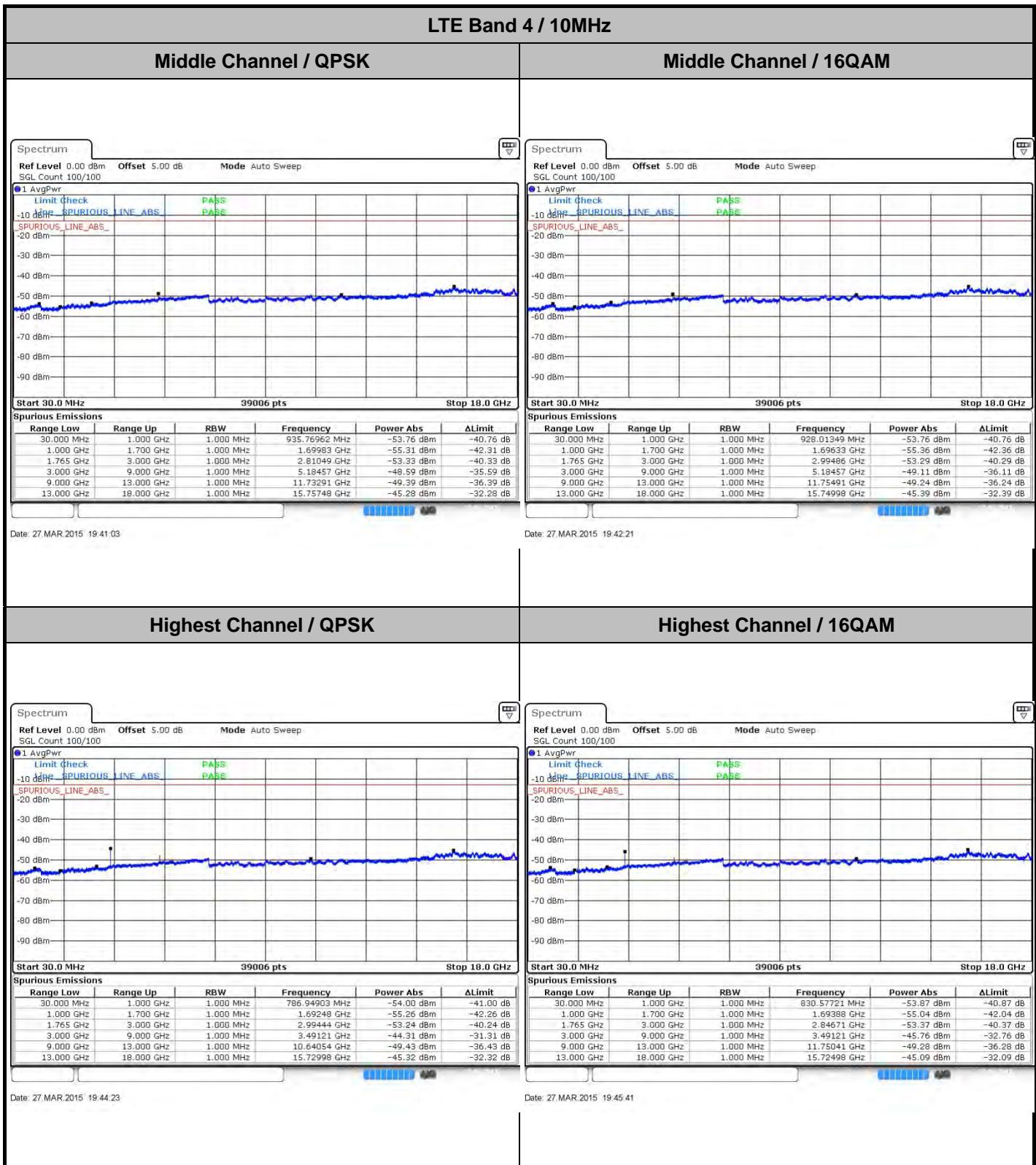
Lowest Channel / 16QAM

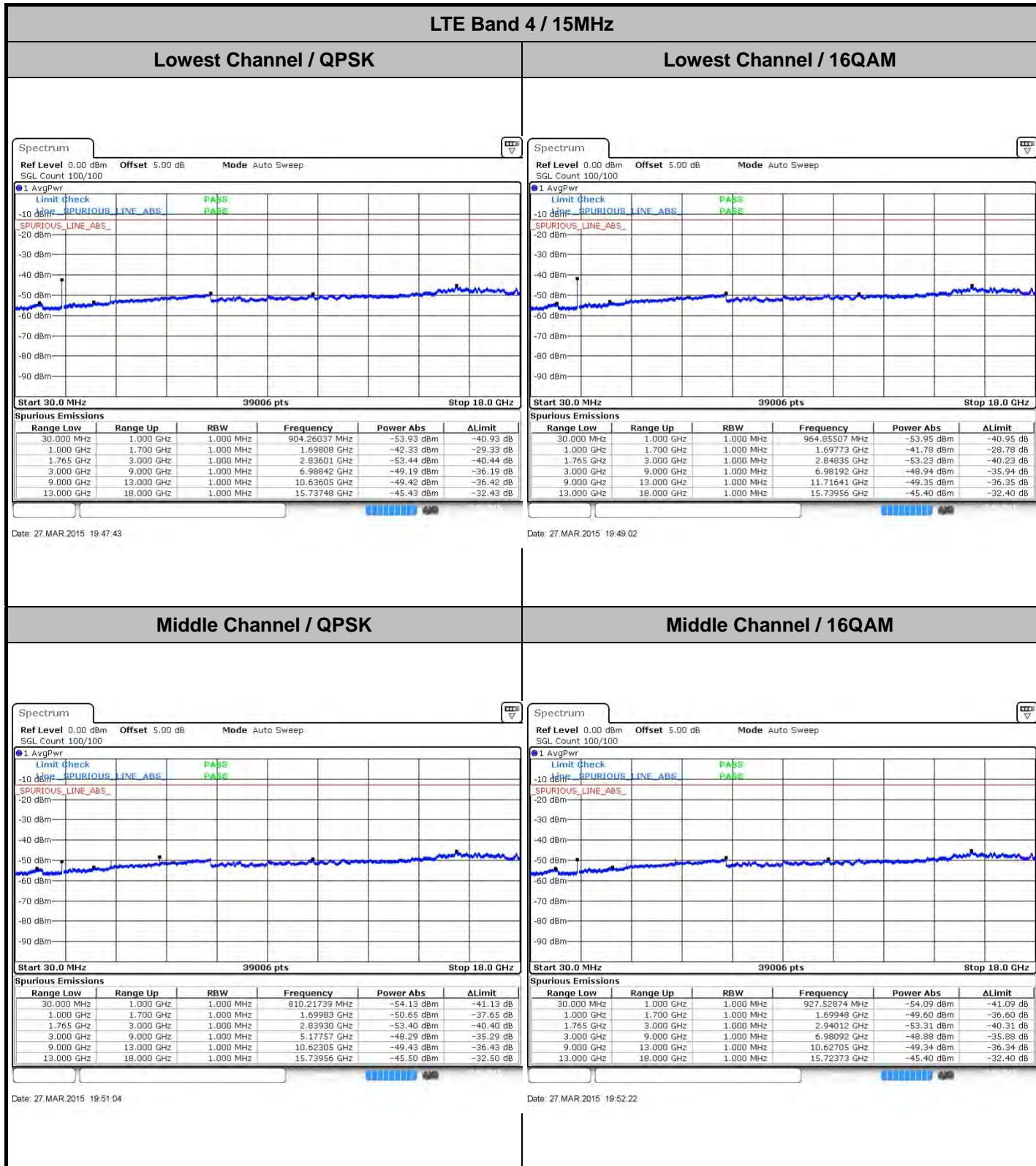


Date: 27 MAR 2015 19:37:43

Date: 27 MAR 2015 19:39:01





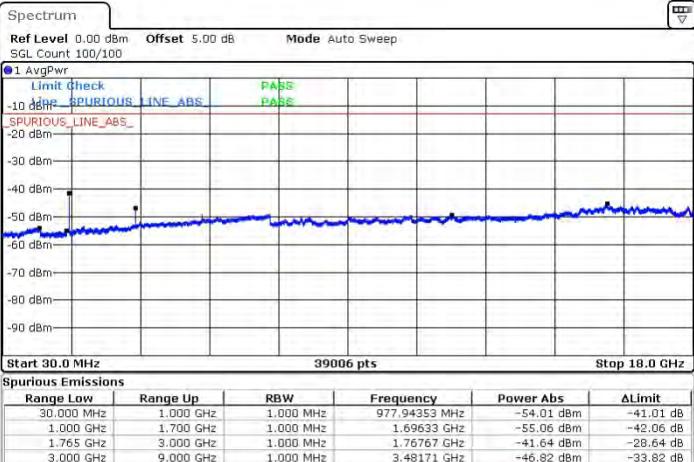
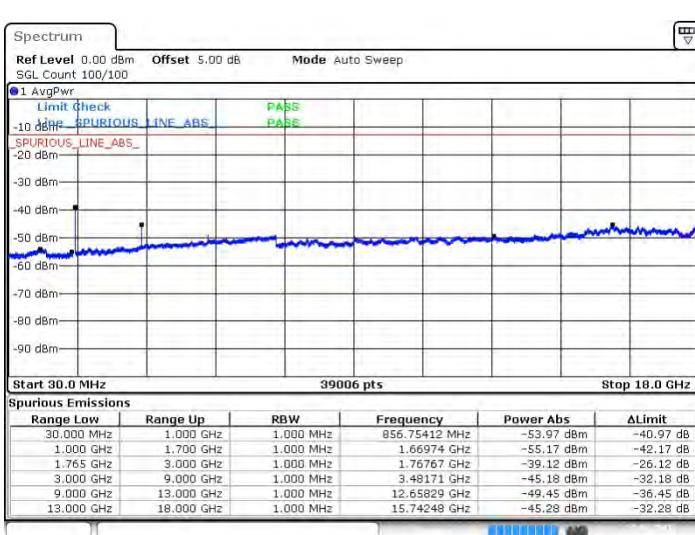




LTE Band 4 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM

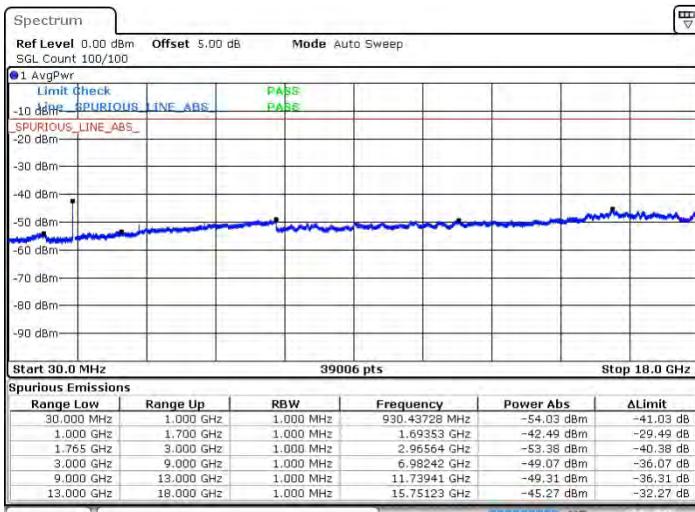


Date: 27 MAR 2015 19:54:24

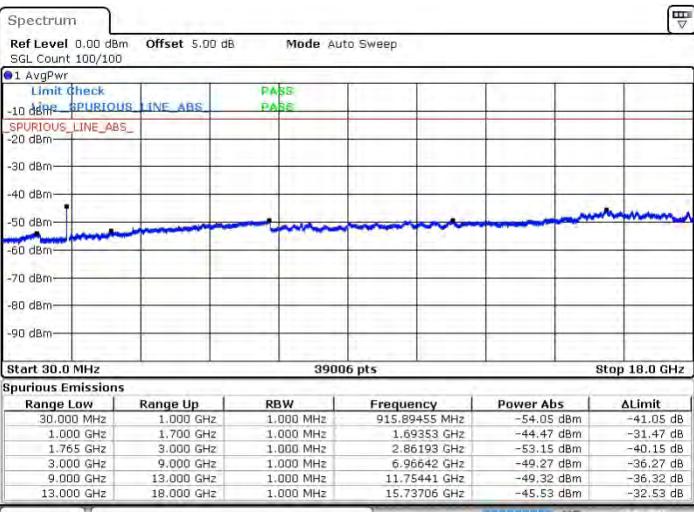
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 27 MAR 2015 19:57:44



Date: 27 MAR 2015 19:59:03





Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0049	
0	Normal Voltage	0.0064	
-10	Normal Voltage	0.0039	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0036	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.7 V. ; Maximum Voltage =4.2 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)

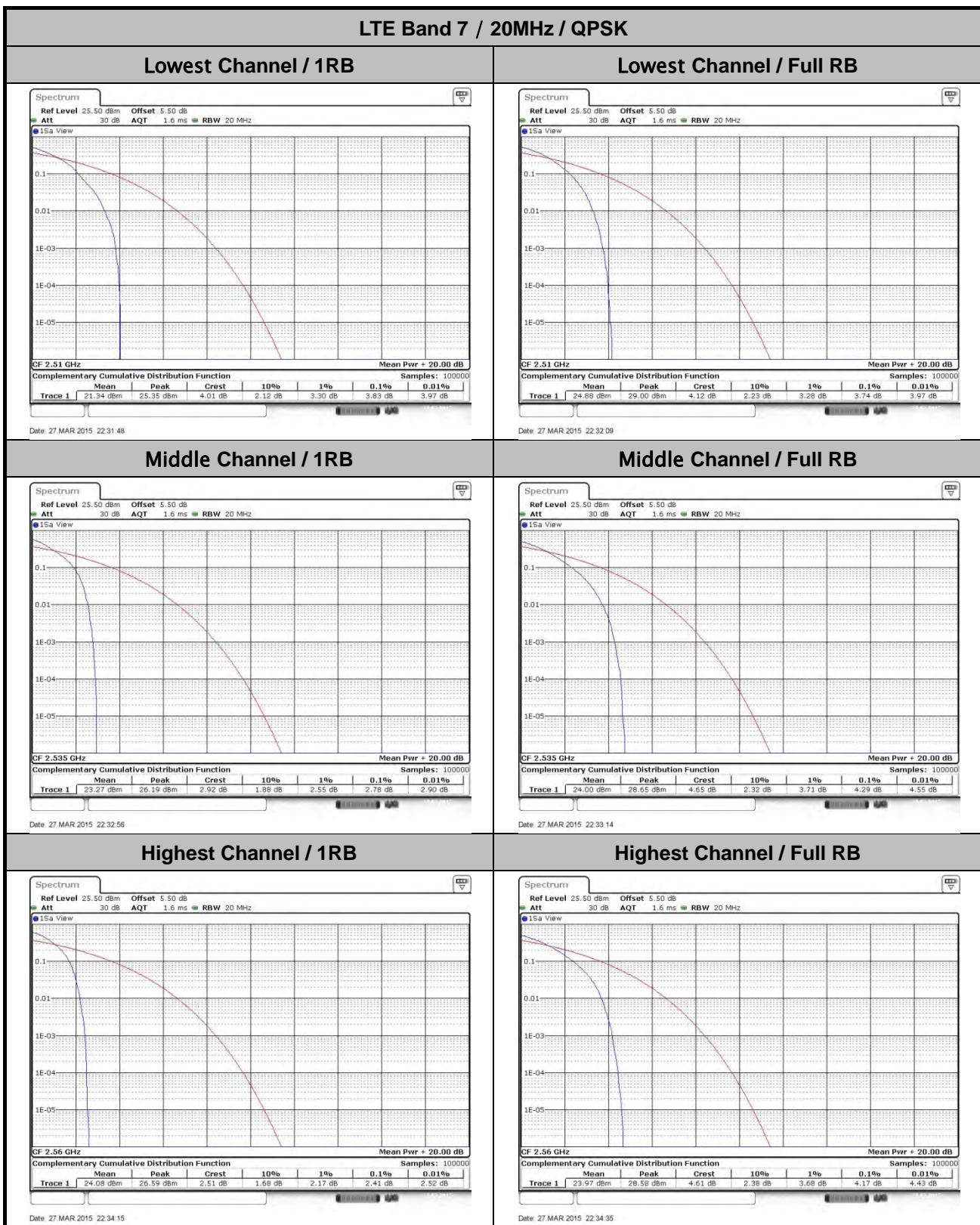
LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.13	22.20	22.03
	1	12		22.26	22.32	22.12
	1	24		22.26	22.32	22.10
	12	0		21.32	21.48	21.17
	12	6		21.36	21.48	21.19
	12	11		21.39	21.45	21.24
	25	0		21.35	21.39	21.34
	1	0		21.39	21.47	21.30
5	1	12	16-QAM	21.52	21.42	21.29
	1	24		21.52	21.43	21.31
	12	0		20.66	20.65	20.62
	12	6		20.59	20.63	20.57
	12	11		20.63	20.88	20.49
	25	0		20.60	20.67	20.49
	1	0		22.07	22.12	22.18
	1	24		22.19	22.27	22.20
10	1	49	QPSK	22.36	22.29	22.19
	25	0		21.26	21.55	21.60
	25	12		21.50	21.32	21.28
	25	24		21.66	21.42	21.24
	50	0		21.54	21.46	21.30
	1	0		21.31	21.38	21.30
	1	24		21.30	21.45	21.19
	1	49		21.44	21.42	21.15
10	25	0	16-QAM	20.55	20.78	20.73
	25	12		20.71	20.49	20.44
	25	24		20.76	20.56	20.43
	50	0		20.52	20.58	20.49

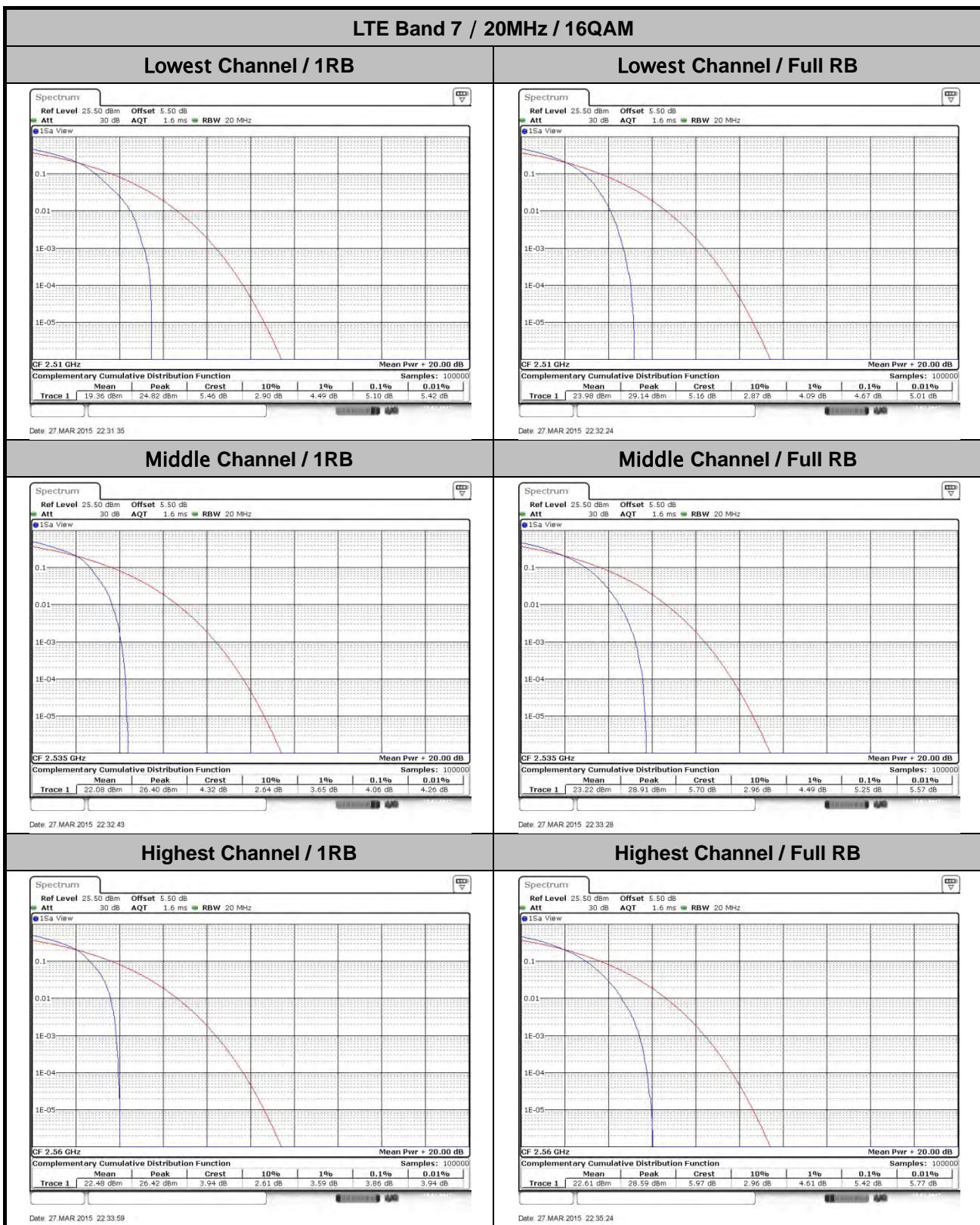


LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.14	22.11	22.13
	1	37		22.34	22.38	22.29
	1	74		22.25	22.31	22.09
	36	0		21.35	21.46	21.37
	36	18		21.47	21.35	21.28
	36	37		21.54	21.40	21.04
	75	0		21.48	21.45	21.13
15	1	0	16-QAM	21.28	21.19	21.10
	1	37		21.52	21.39	21.25
	1	74		21.37	21.33	21.06
	36	0		20.68	20.76	20.57
	36	18		20.71	20.63	20.57
	36	37		20.60	20.56	20.31
	75	0		20.55	20.50	20.39
20	1	0	QPSK	22.17	22.39	22.18
	1	49		22.16	22.31	22.08
	1	99		22.15	22.14	22.02
	50	0		21.39	21.42	21.28
	50	24		21.31	21.35	21.29
	50	49		21.29	21.35	21.12
	100	0		21.27	21.39	21.10
20	1	0	16-QAM	21.33	21.20	21.24
	1	49		21.41	21.24	21.17
	1	99		21.31	21.11	21.02
	50	0		20.69	20.67	20.40
	50	24		20.55	20.63	20.45
	50	49		20.42	20.61	20.41
	100	0		20.38	20.66	20.57

**Peak-to-Average Ratio**

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	3.83	3.74	5.10	4.67	PASS
Middle CH	2.78	4.29	4.06	5.25	
Highest CH	2.41	4.17	3.86	5.42	





**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	5.03	10.05	10.01	14.63	14.72	21.18	20.34
Middle CH	-	-	-	-	5.06	5.05	9.87	9.89	14.66	14.75	20.34	20.26
Highest CH	-	-	-	-	5.30	5.12	10.53	10.45	14.66	14.66	20.18	20.18

