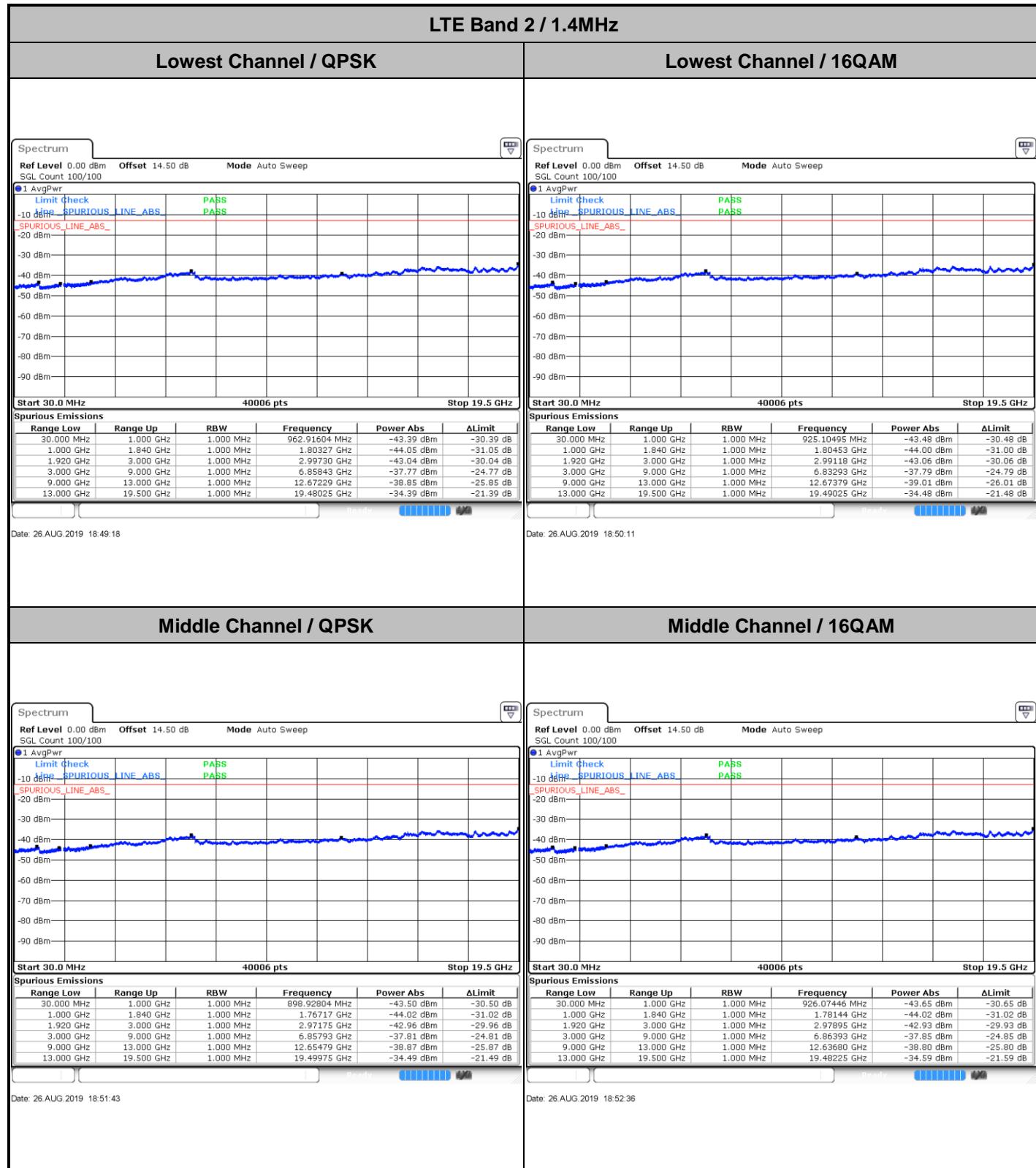




Conducted Spurious Emission

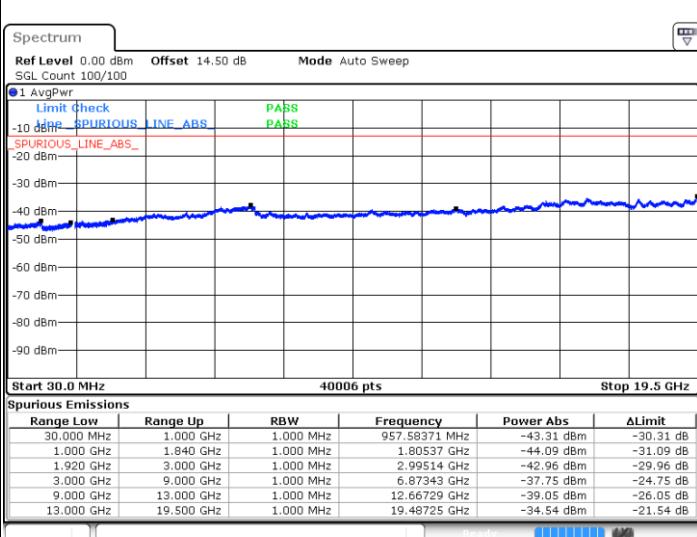
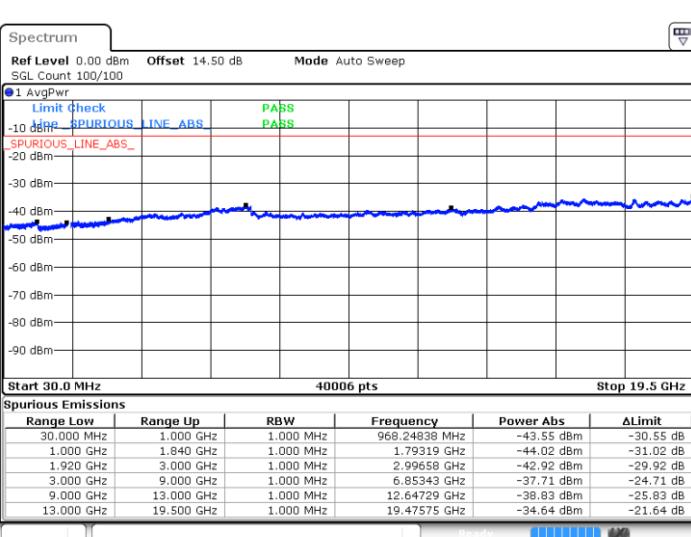




LTE Band 2 / 1.4MHz

Highest Channel / QPSK

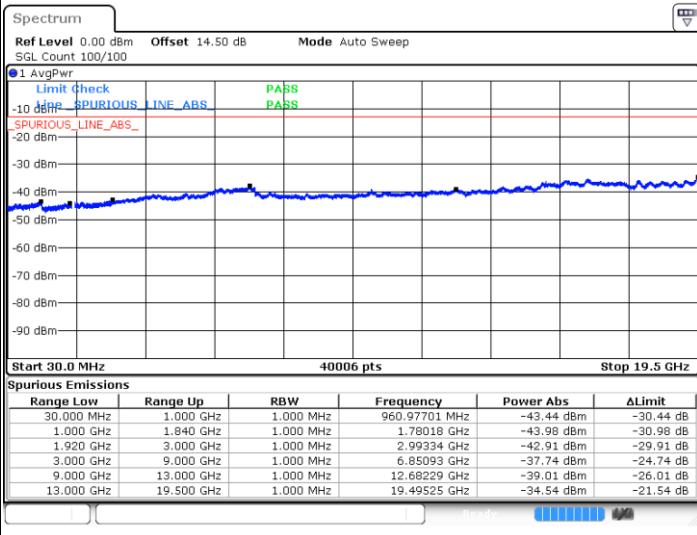
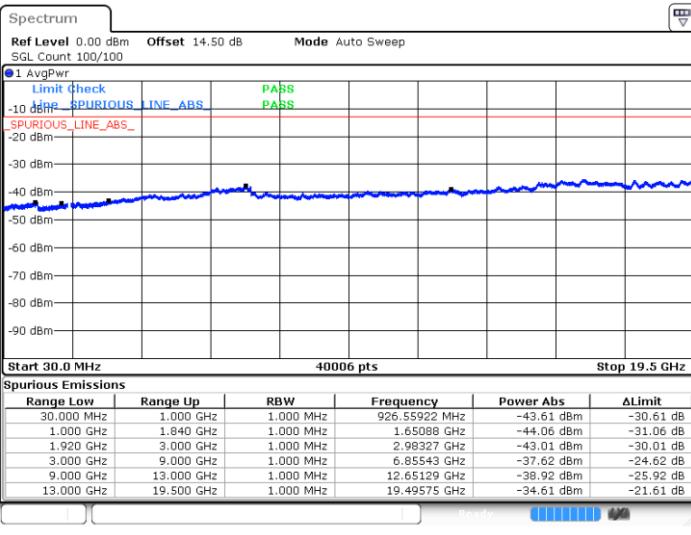
Highest Channel / 16QAM

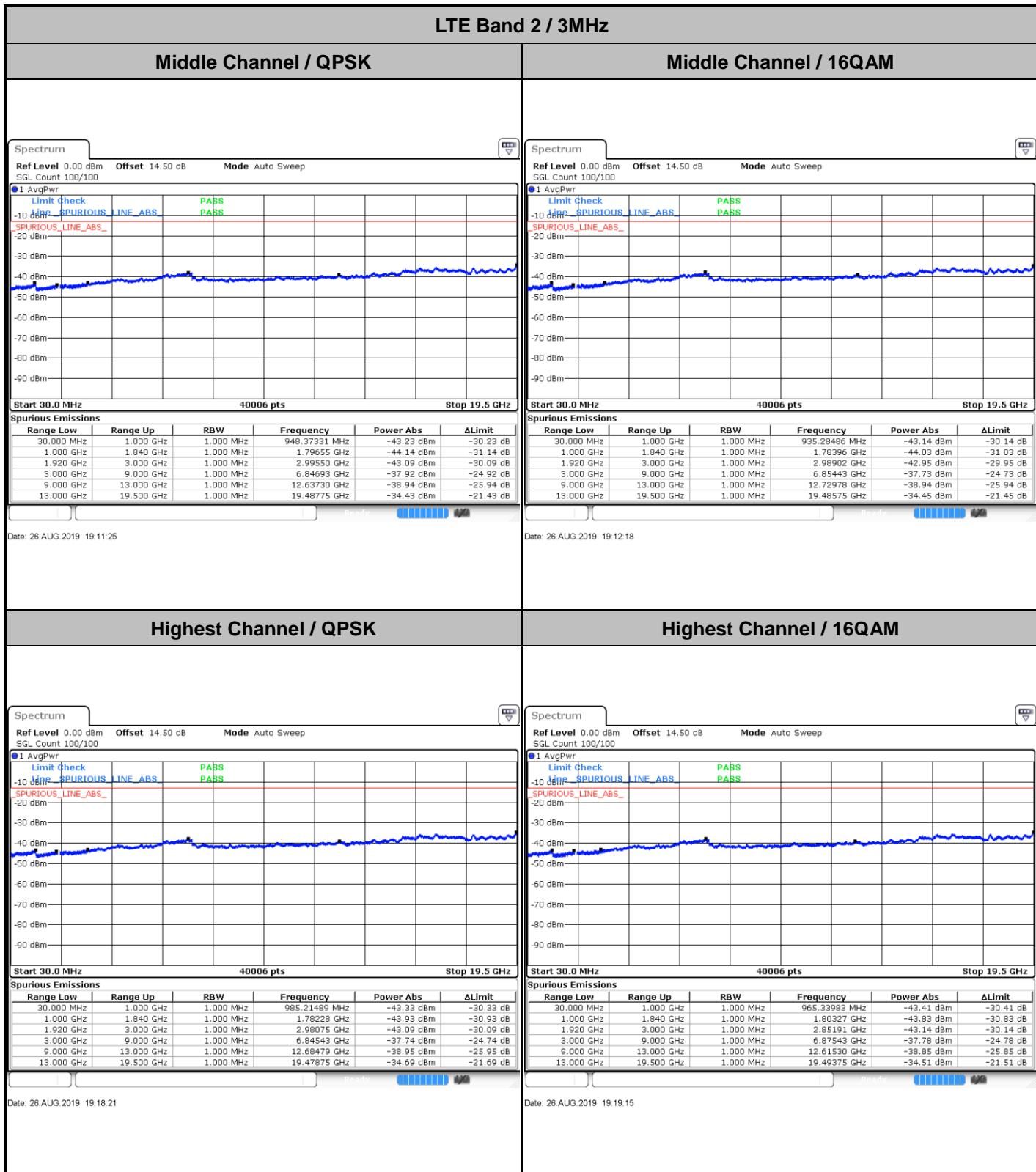


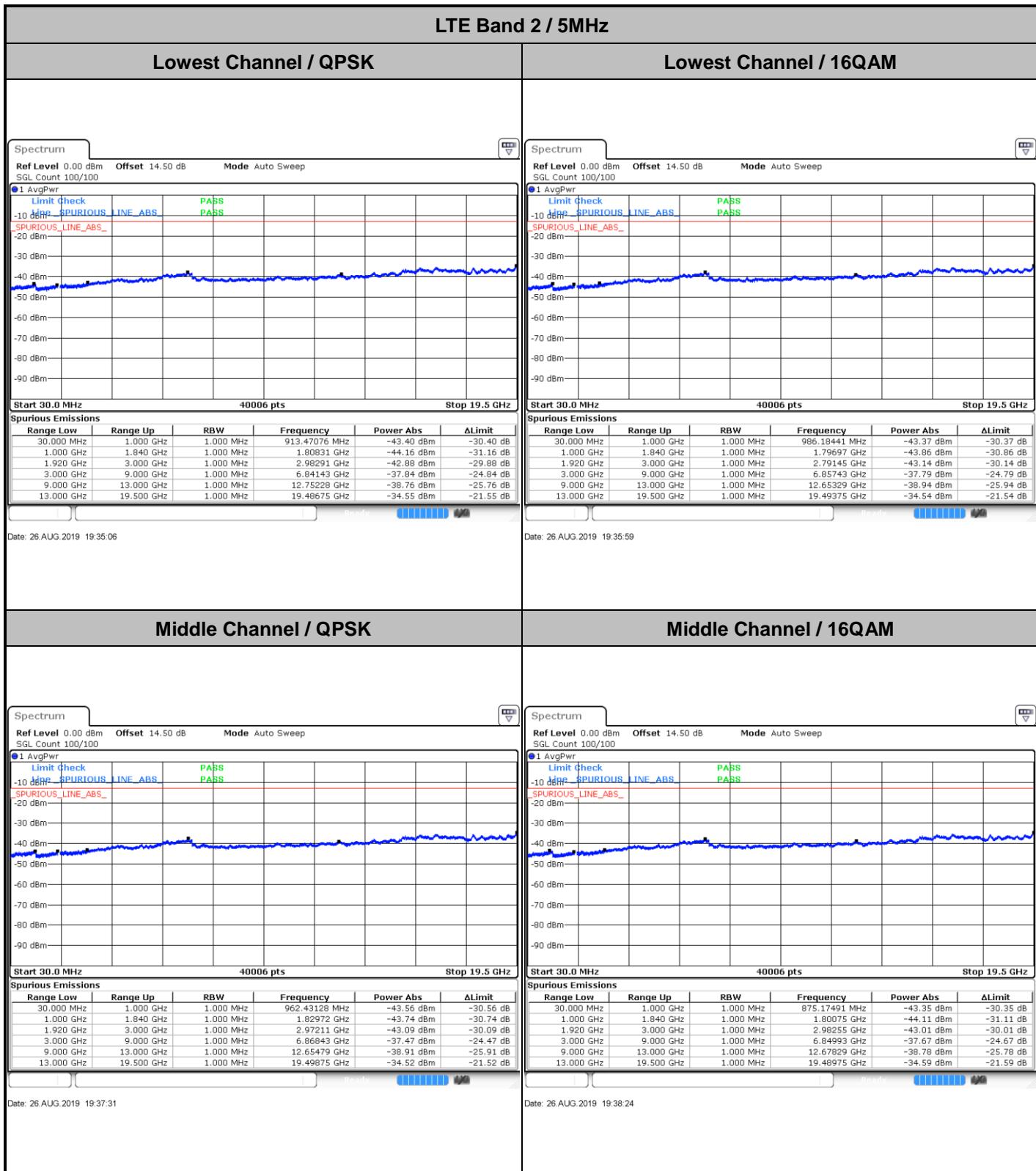
LTE Band 2 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





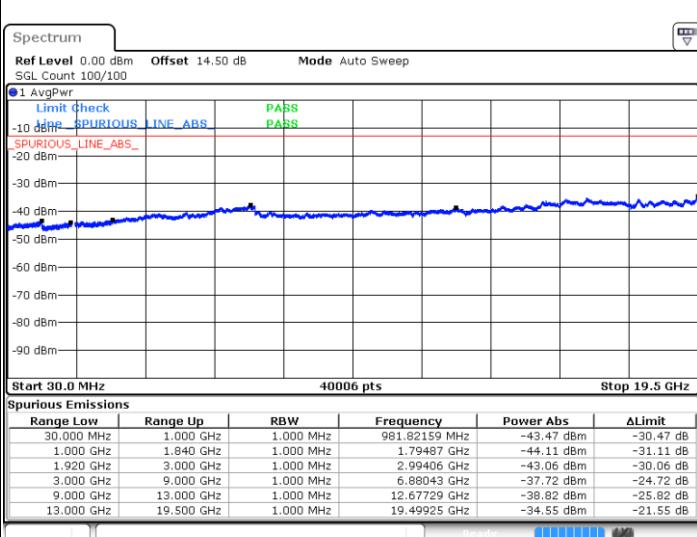
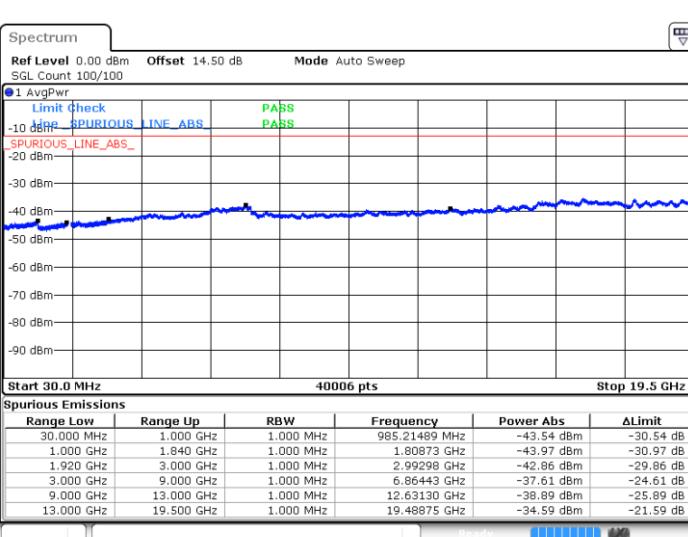




LTE Band 2 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



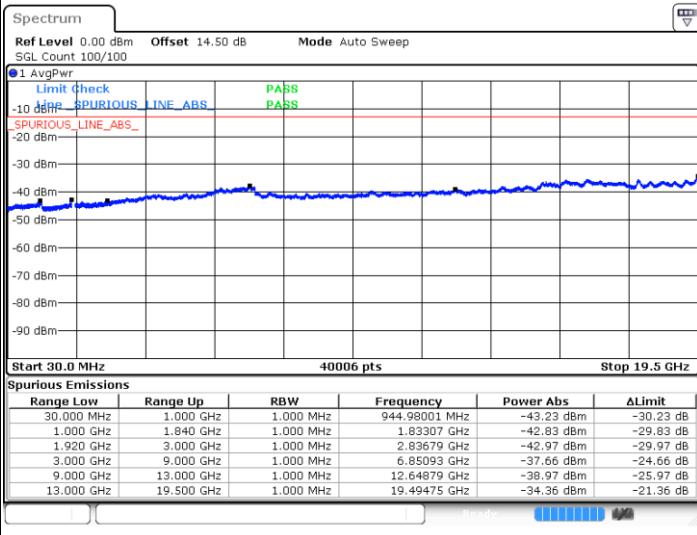
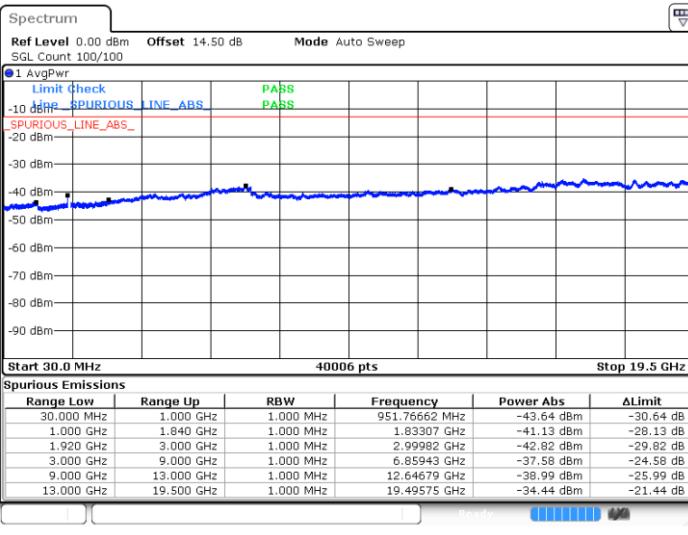
Date: 26.AUG.2019 19:44:28

Date: 26.AUG.2019 19:45:21

LTE Band 2 / 10MHz

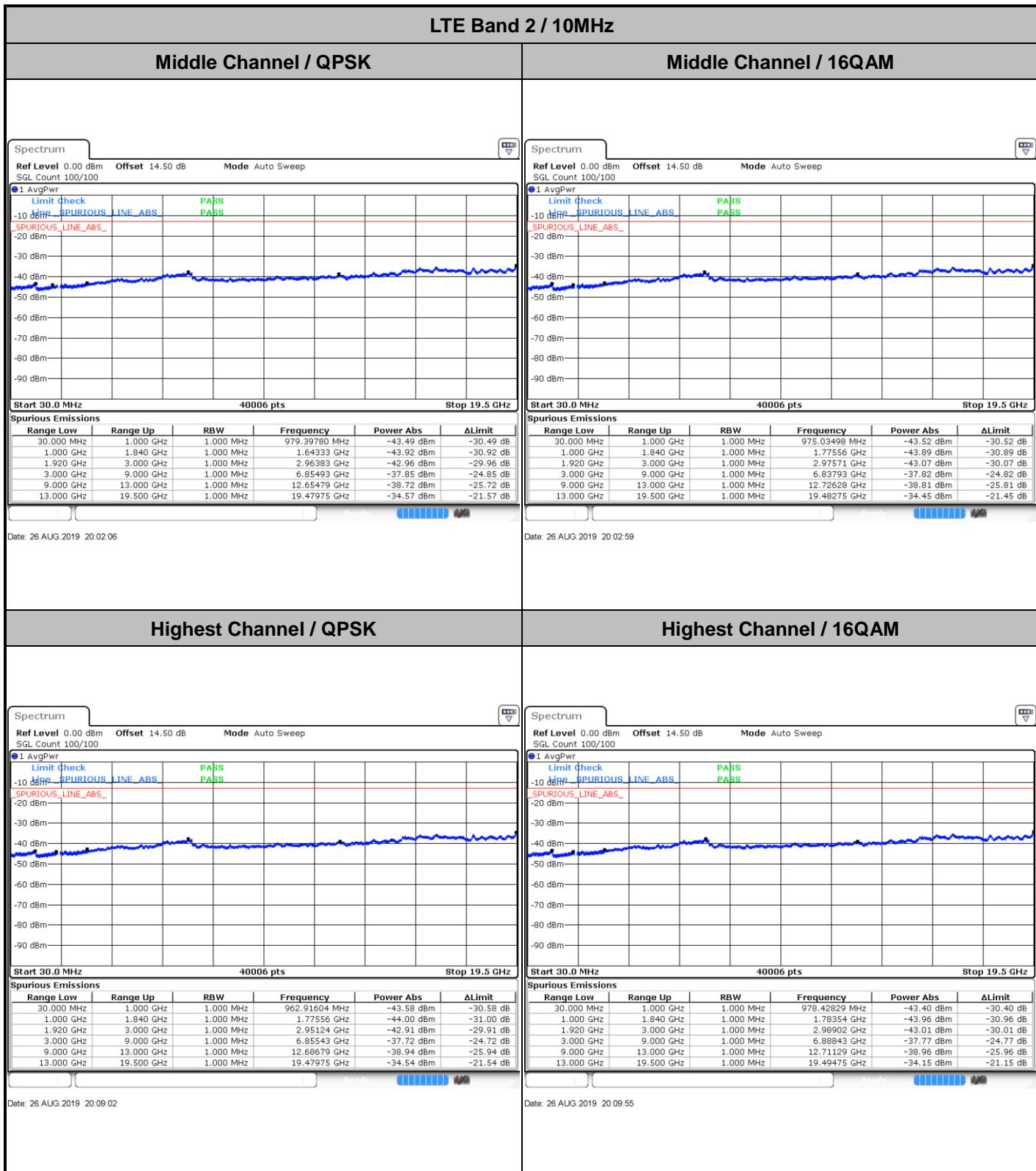
Lowest Channel / QPSK

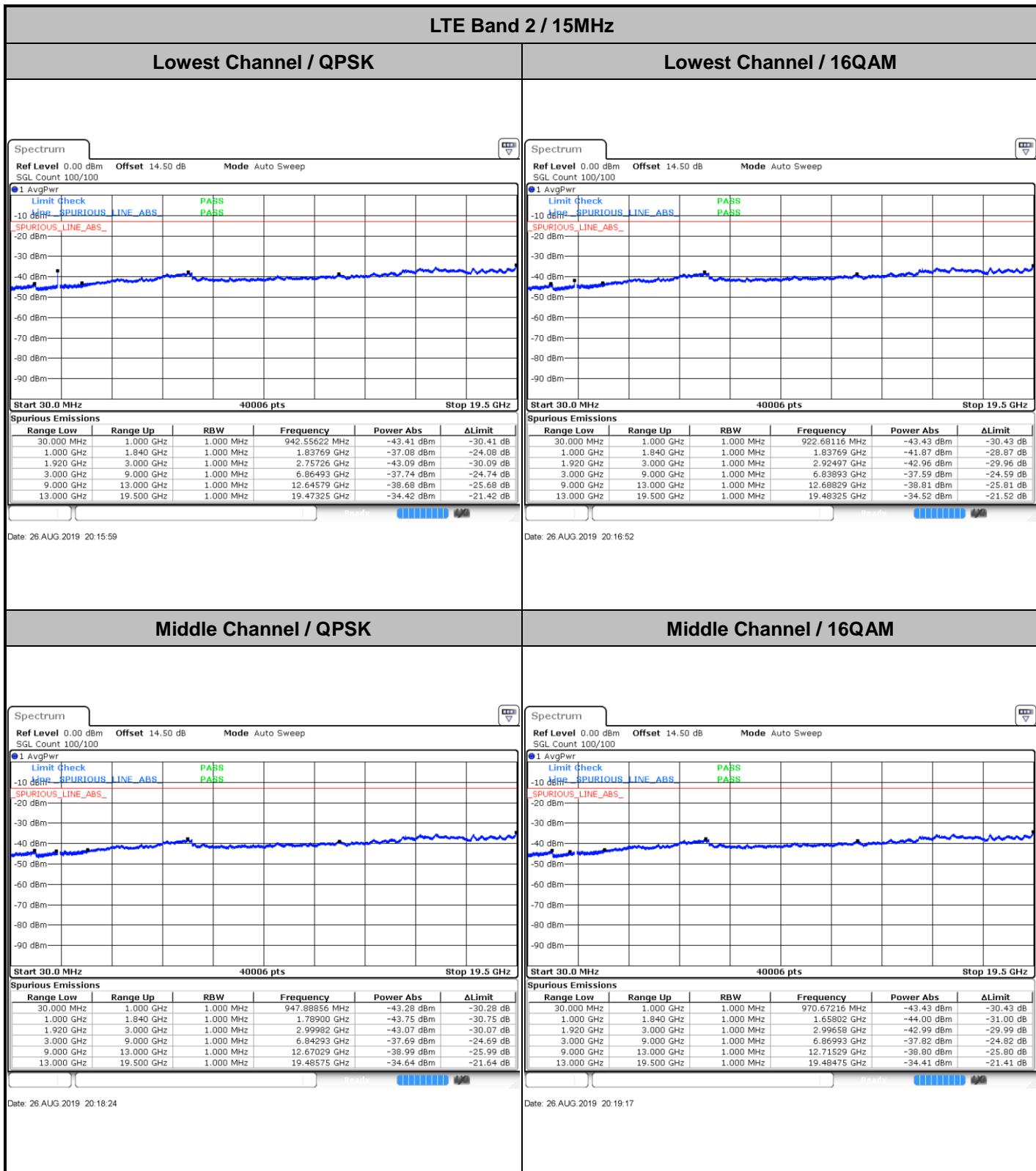
Lowest Channel / 16QAM



Date: 26.AUG.2019 19:59:41

Date: 26.AUG.2019 20:00:34



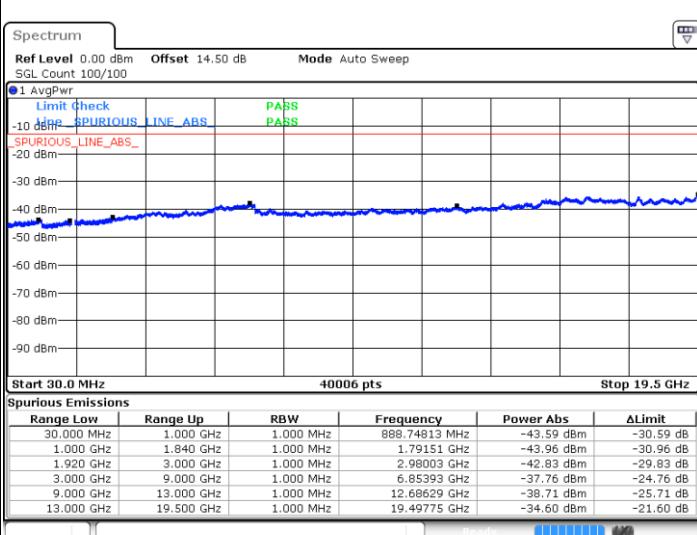
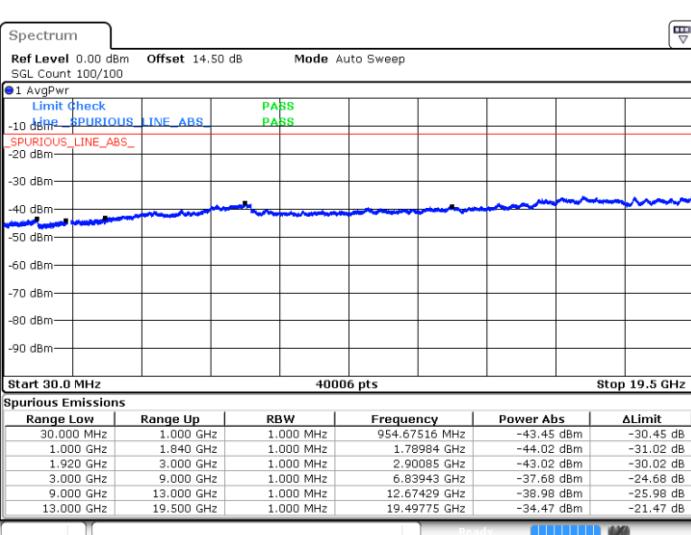




LTE Band 2 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM

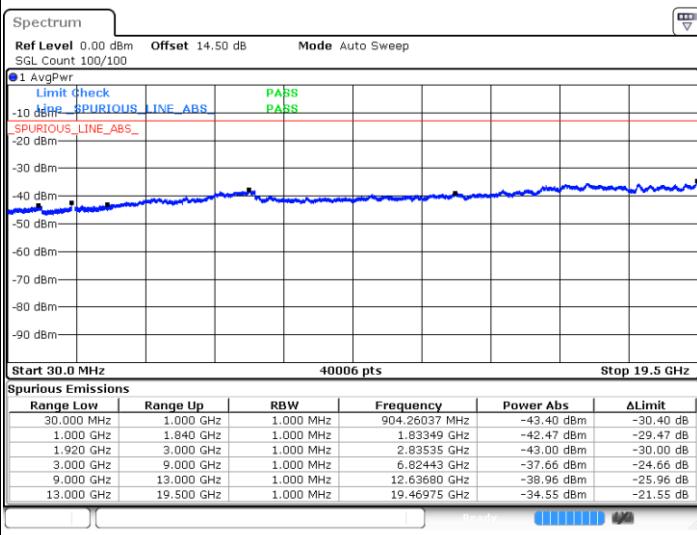
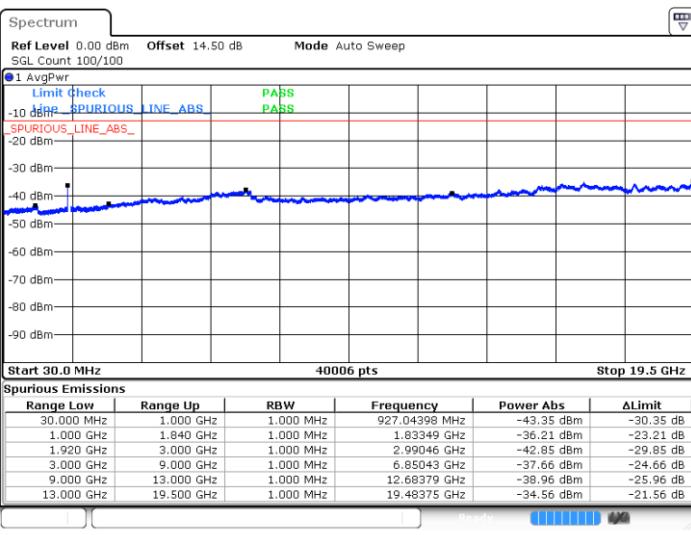


Date: 26.AUG.2019 20:26:14

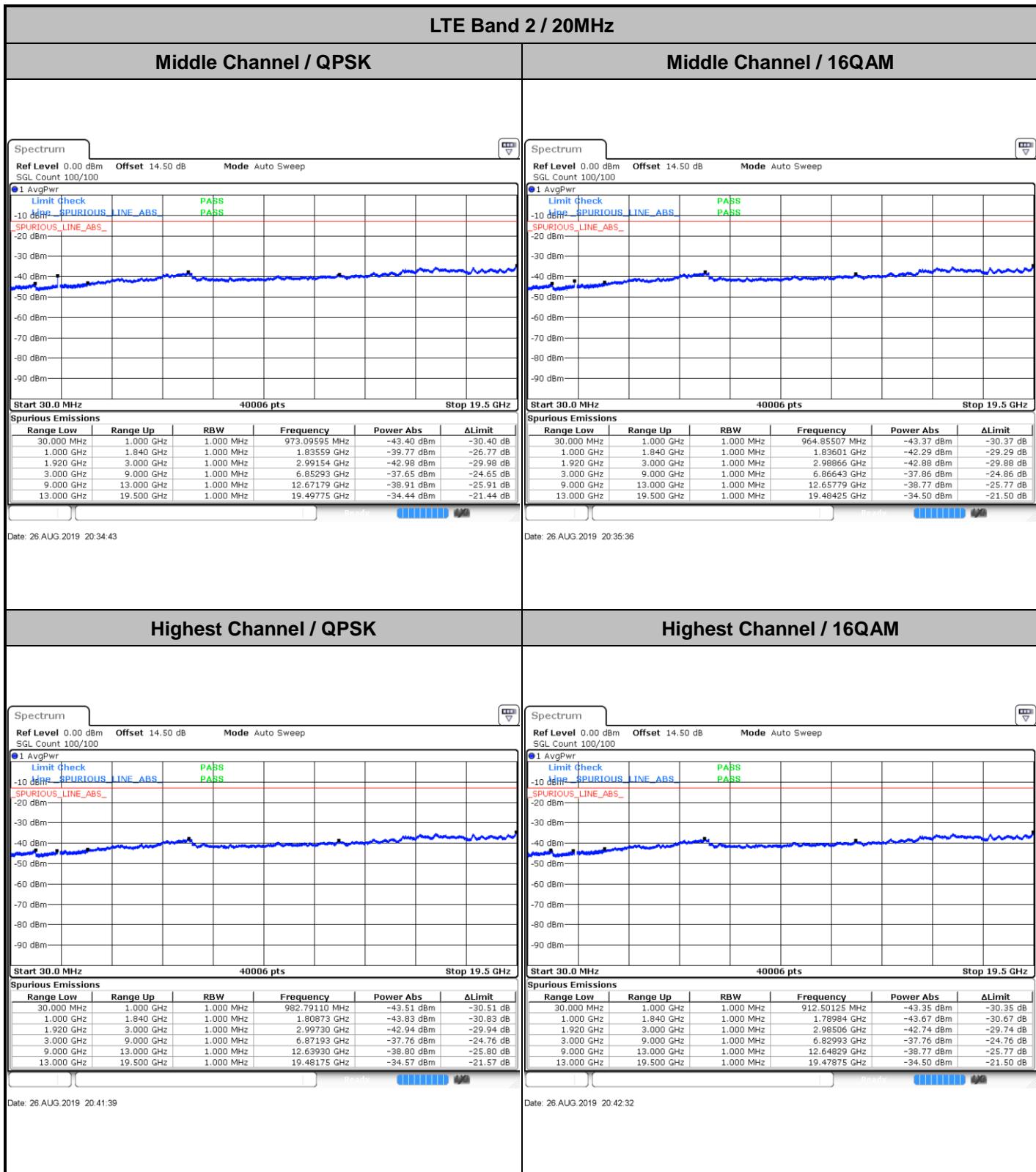
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 26.AUG.2019 20:33:11





Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

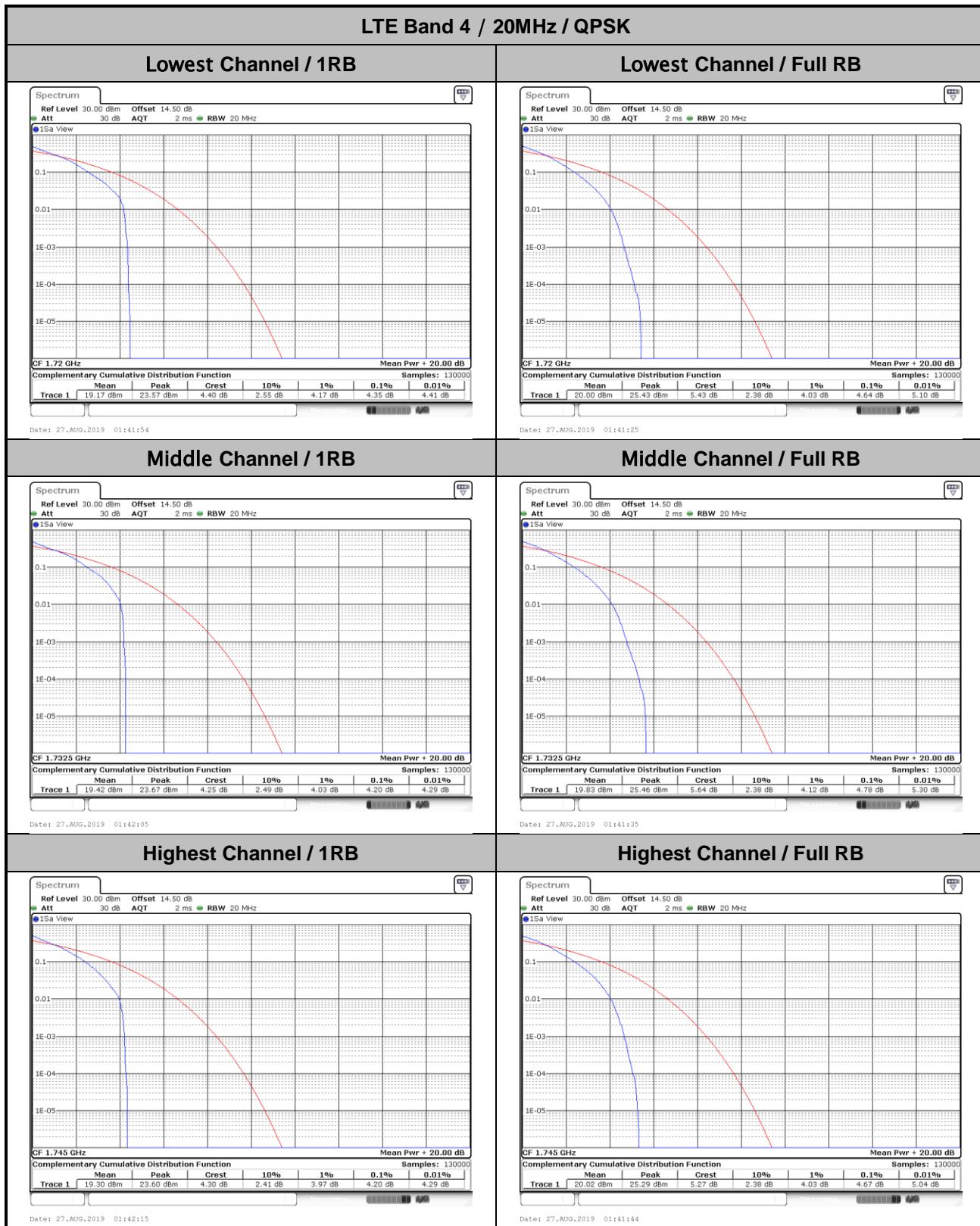
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

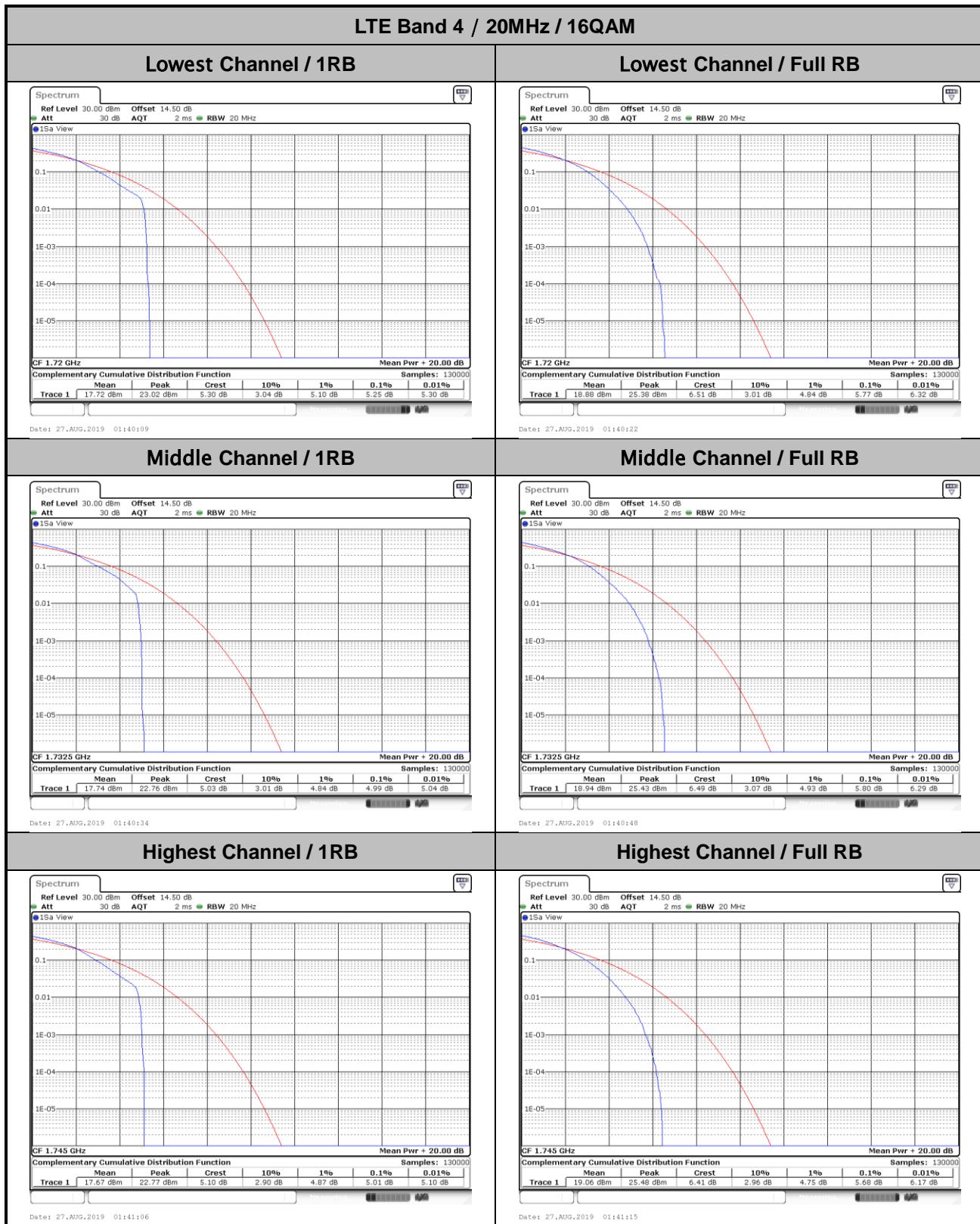


LTE Band 4

Peak-to-Average Ratio

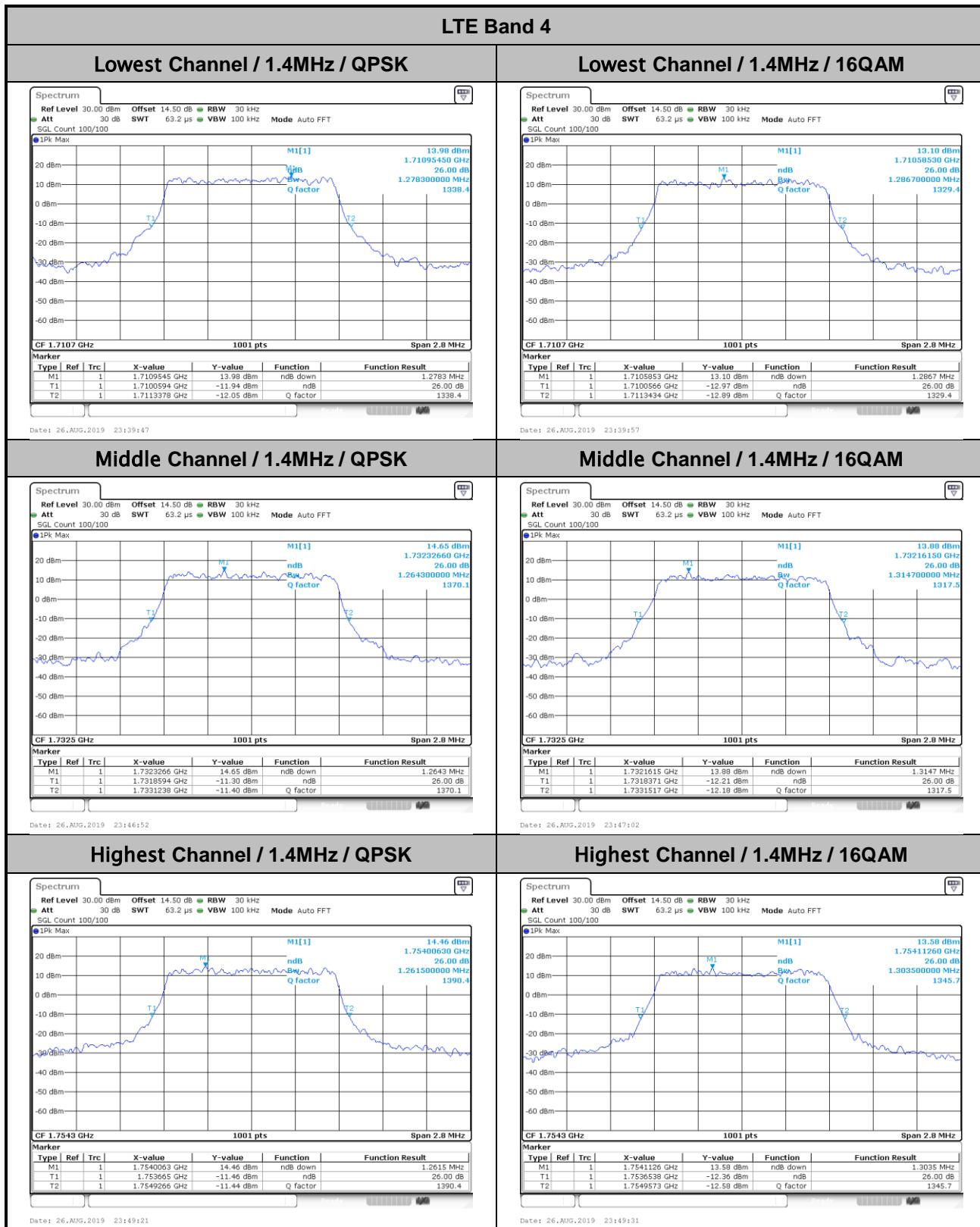
Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.35	4.64	5.25	5.77	PASS
Middle CH	4.2	4.78	4.99	5.8	
Highest CH	4.2	4.67	5.01	5.68	

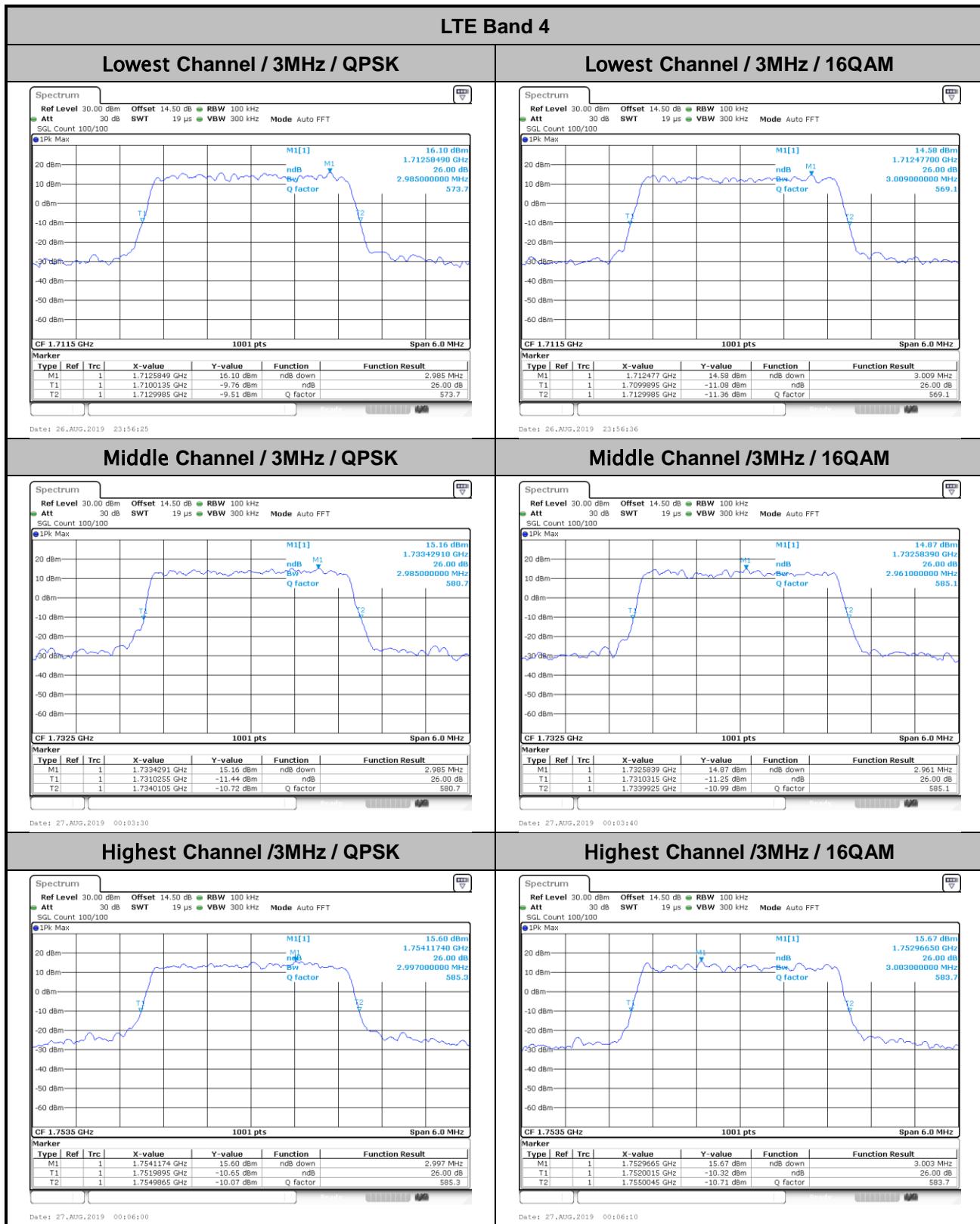


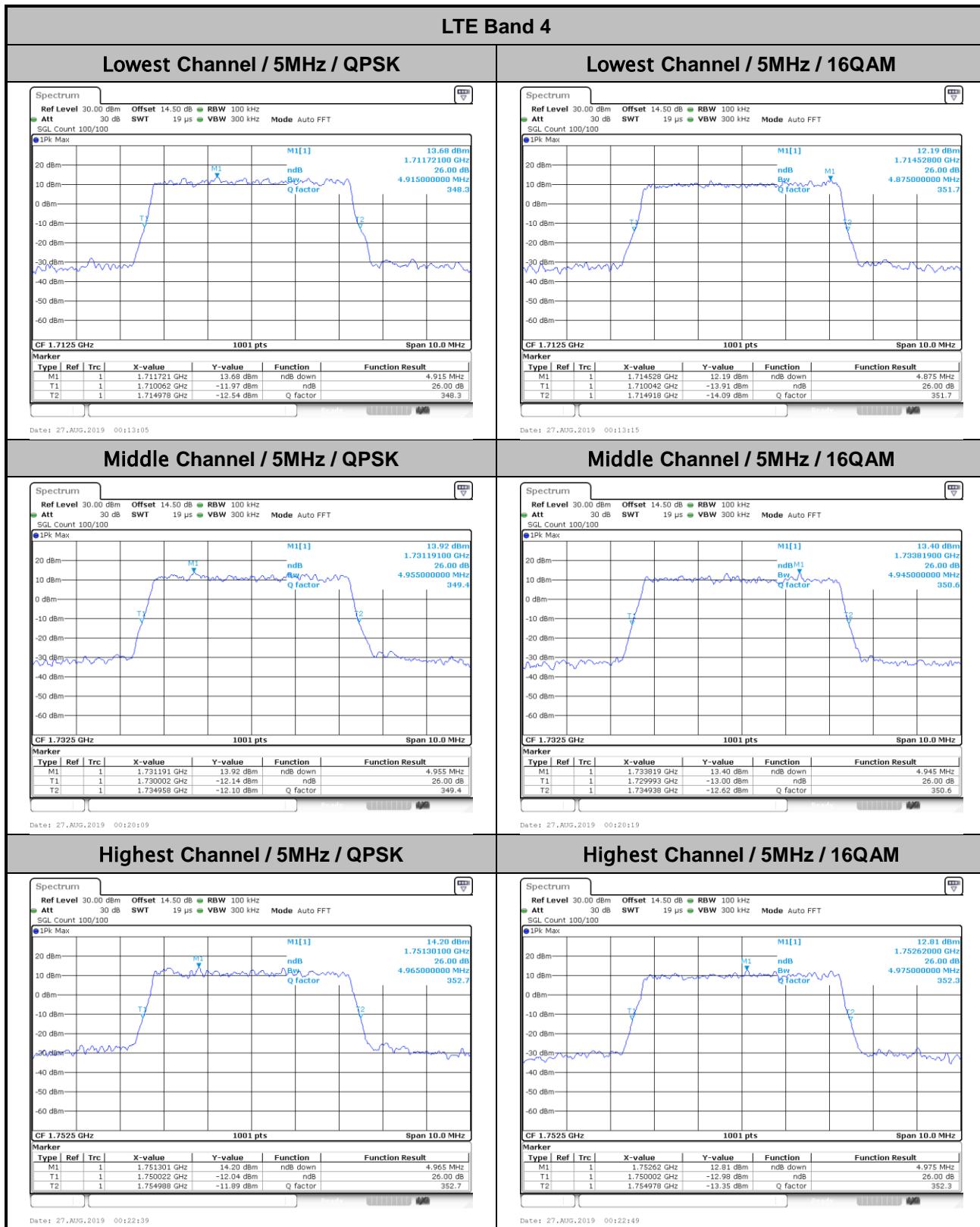


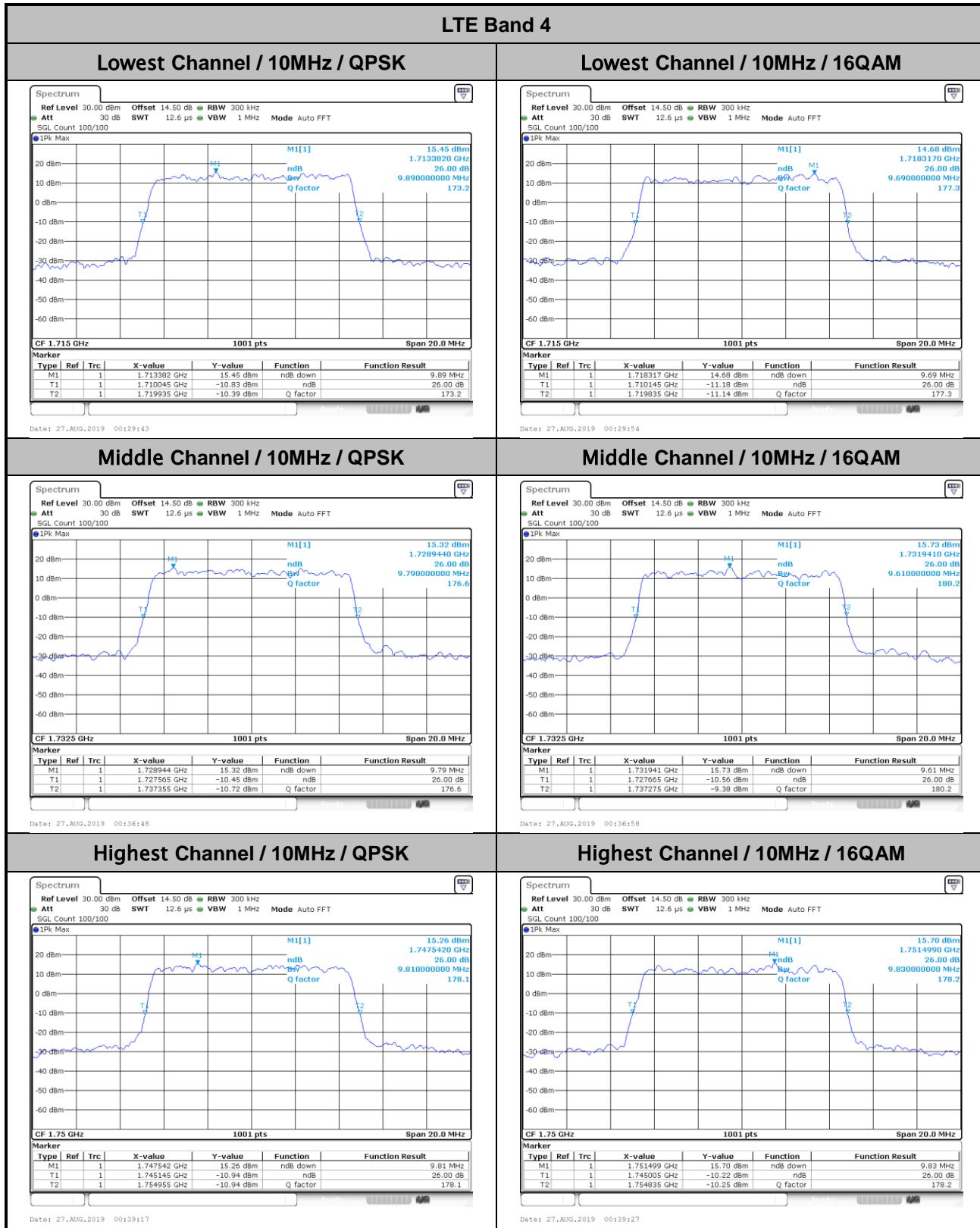
**26dB Bandwidth**

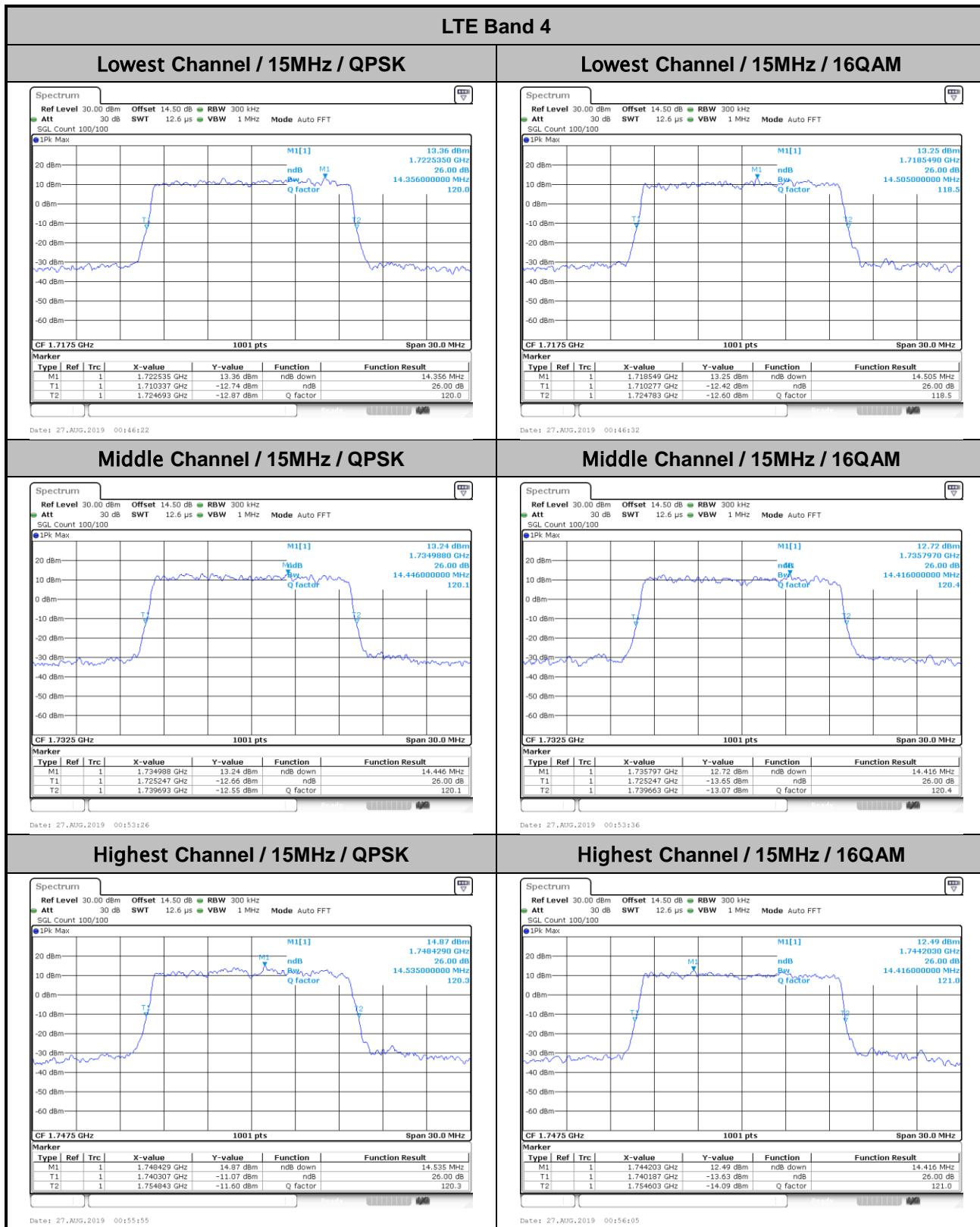
Mode	LTE Band 4 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.278	1.287	2.985	3.009	4.915	4.875	9.89	9.69	14.356	14.505	20.06	20.14
Middle CH	1.264	1.315	2.985	2.961	4.955	4.945	9.79	9.61	14.446	14.416	20.34	20.22
Highest CH	1.262	1.304	2.997	3.003	4.965	4.975	9.81	9.83	14.535	14.416	20.06	20.14

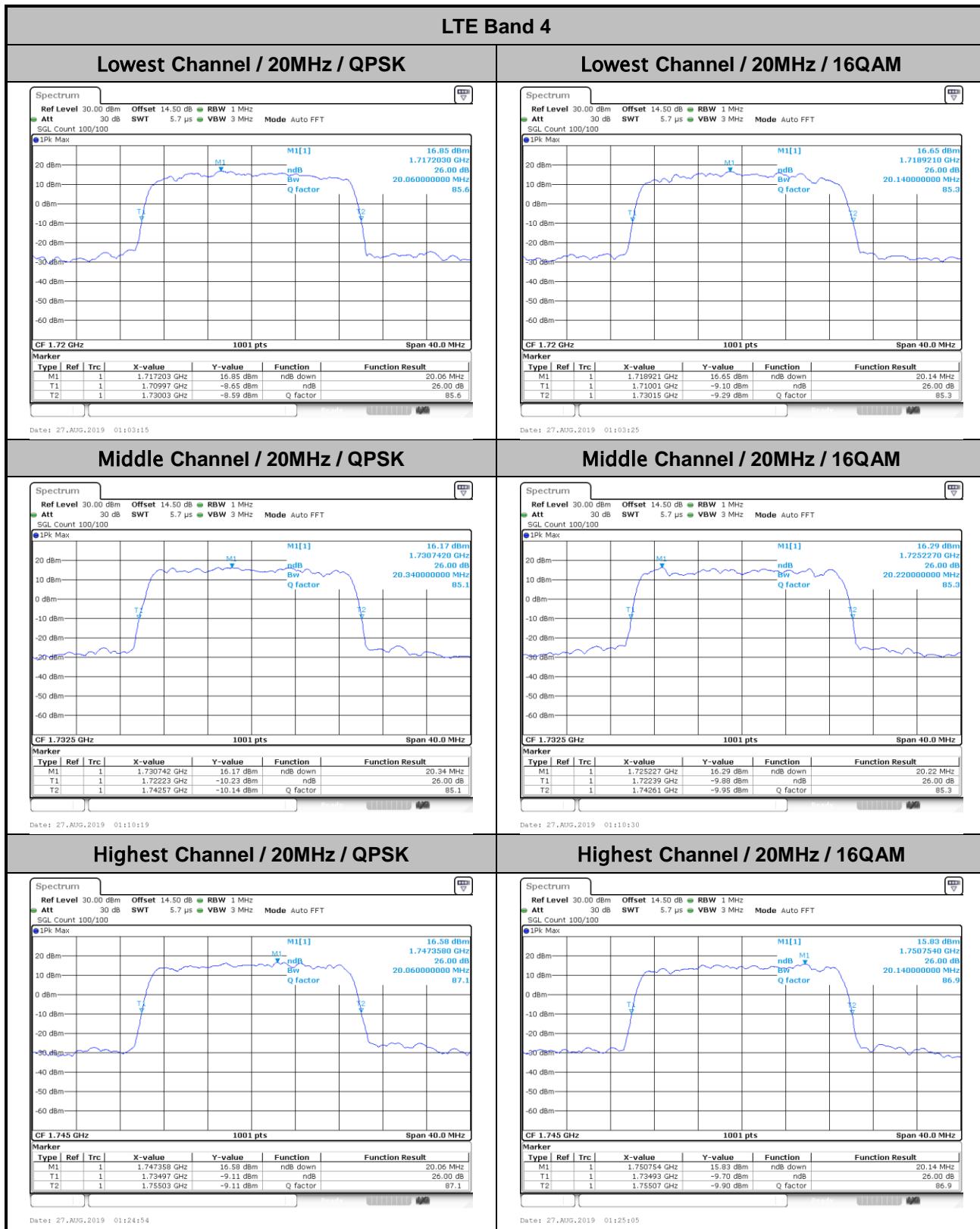












**Occupied Bandwidth**

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	1.1	1.09	2.72	2.71	4.5	4.5	8.99	9.07	13.46	13.43	18.26	18.30
Middle CH	1.09	1.1	2.7	2.72	4.5	4.51	9.03	9.03	13.43	13.37	18.34	18.22
Highest CH	1.09	1.1	2.72	2.7	4.49	4.49	9.03	8.97	13.4	13.37	18.30	18.30