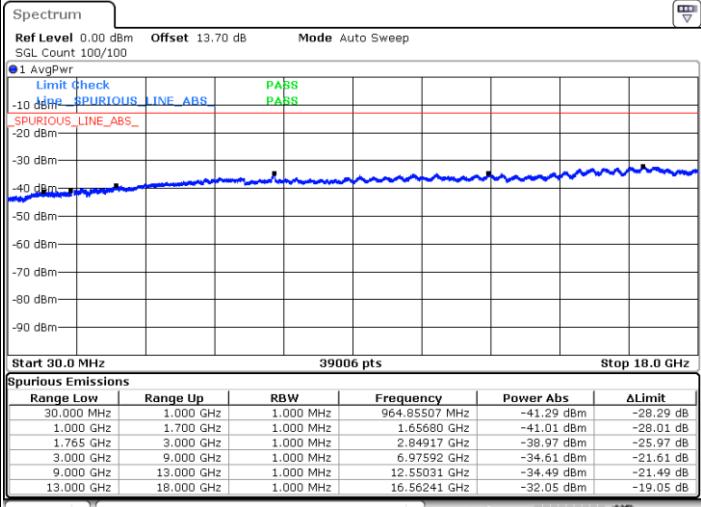
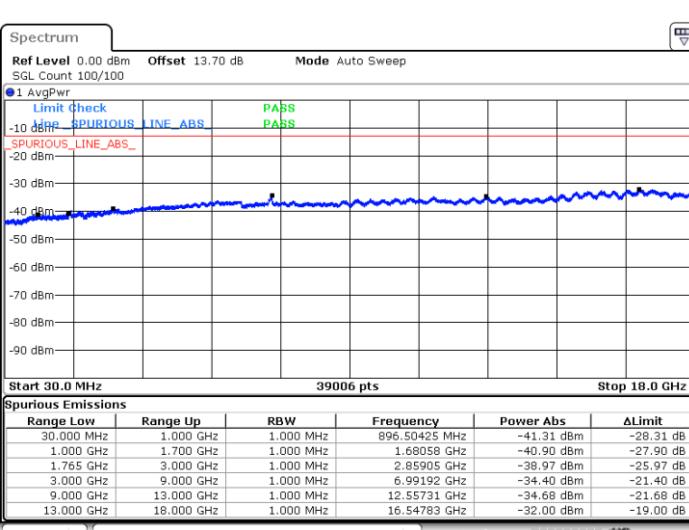




LTE Band 4 / 15MHz

Highest Channel / QPSK

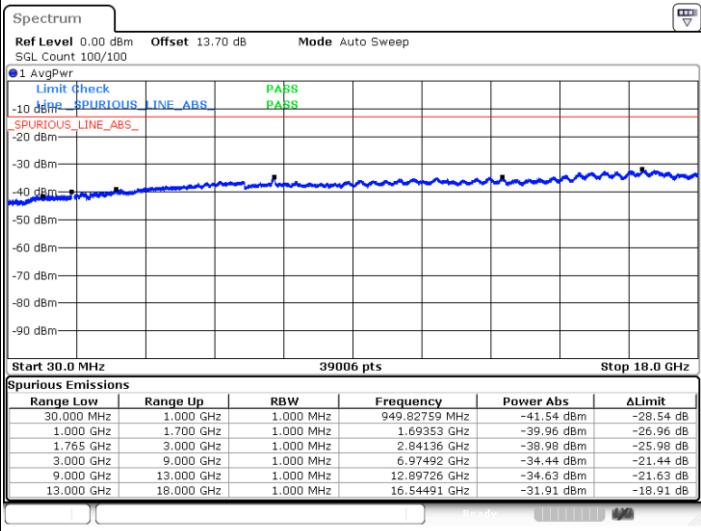
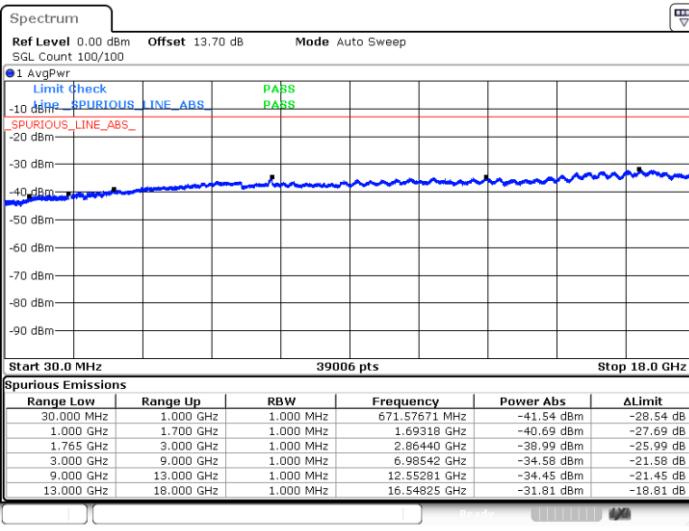
Highest Channel / 16QAM

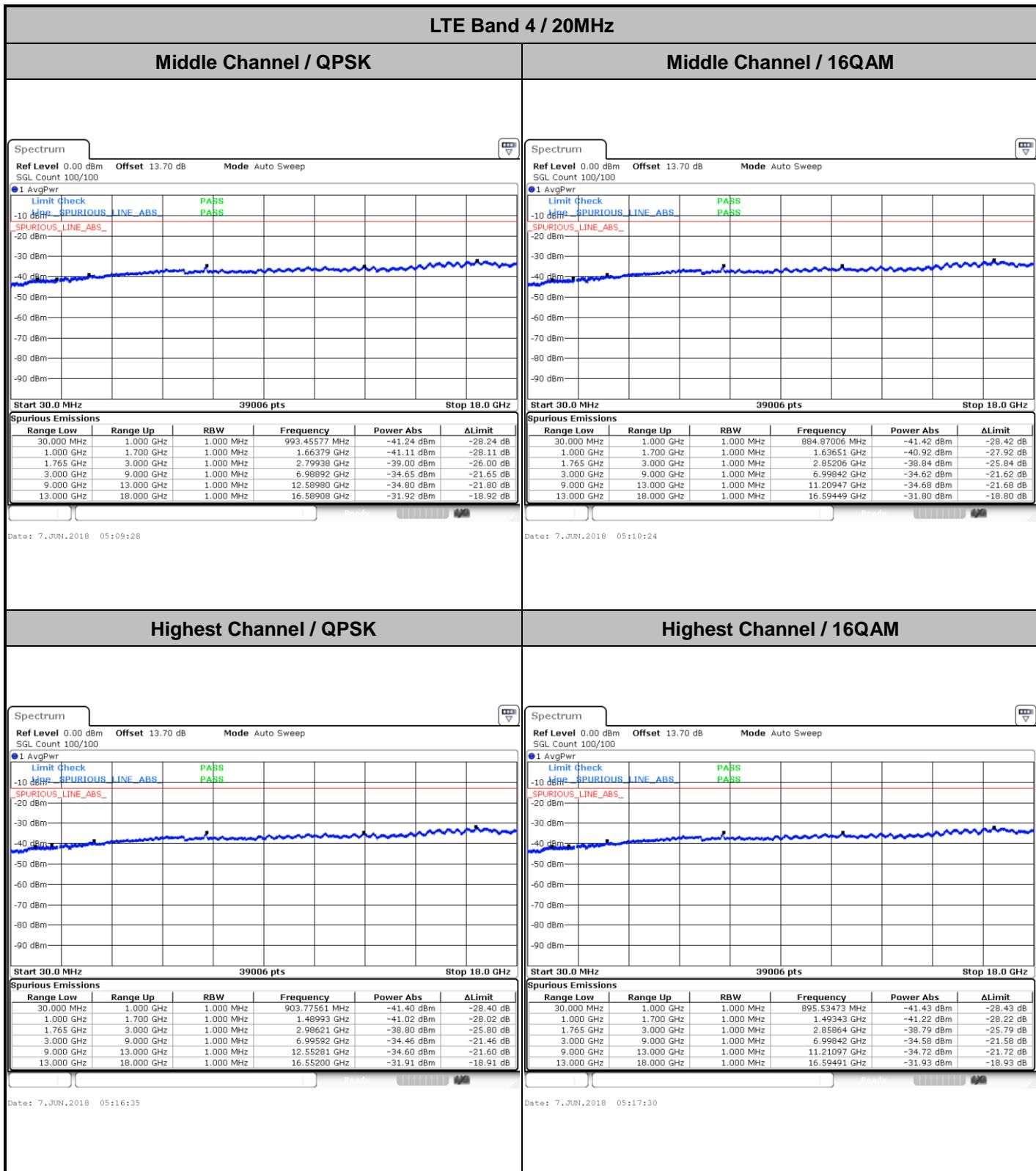


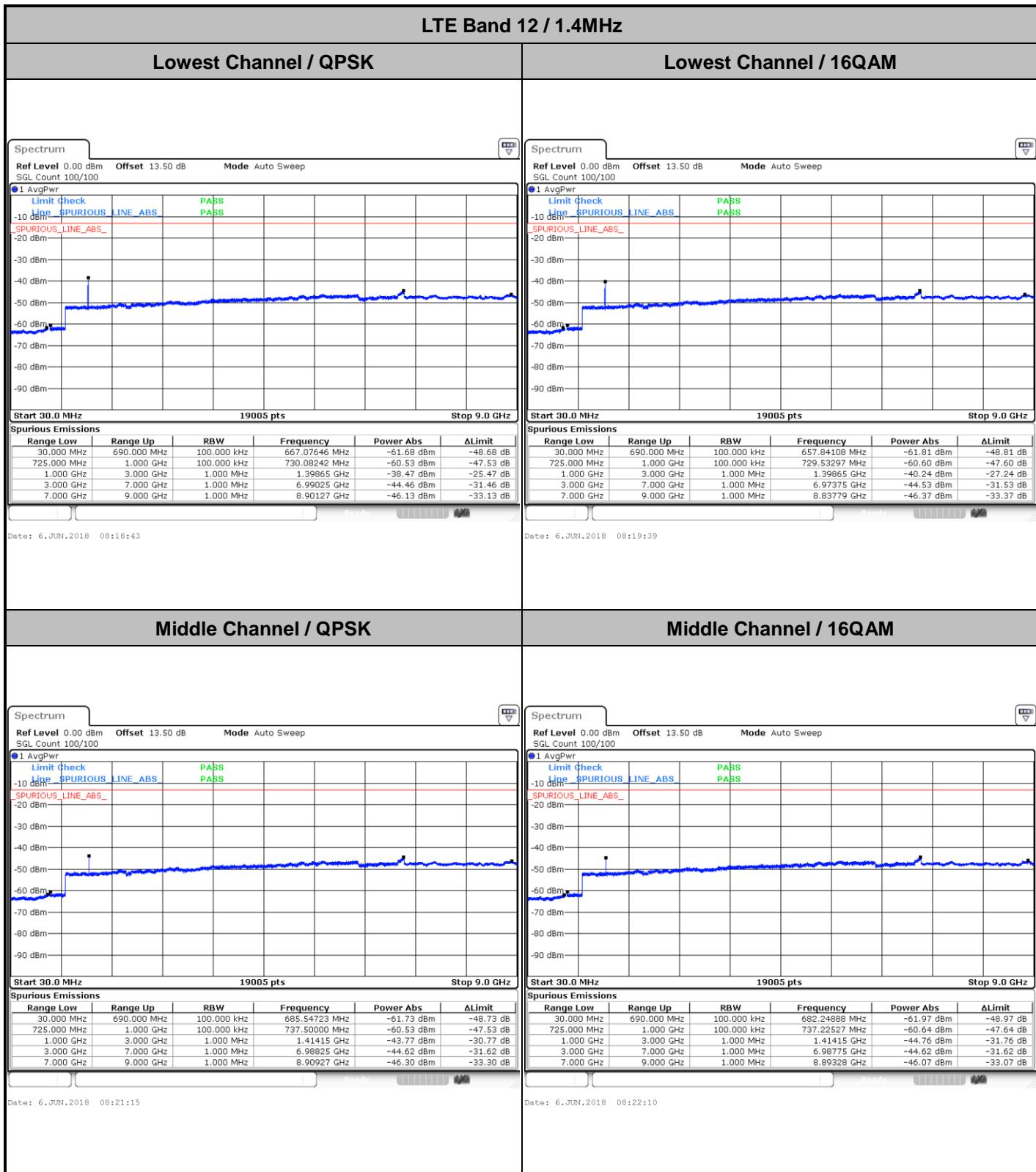
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





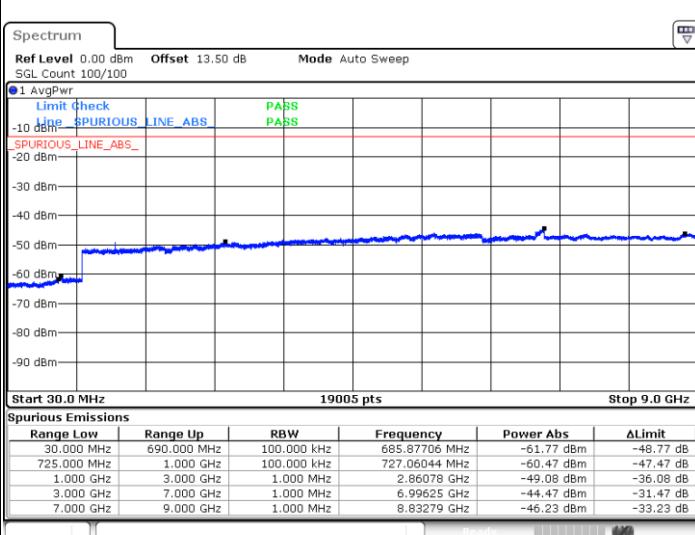
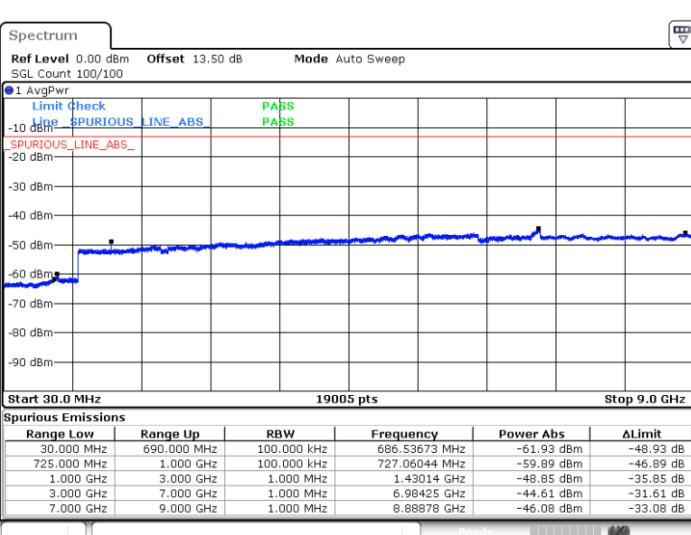




LTE Band 12 / 1.4MHz

Highest Channel / QPSK

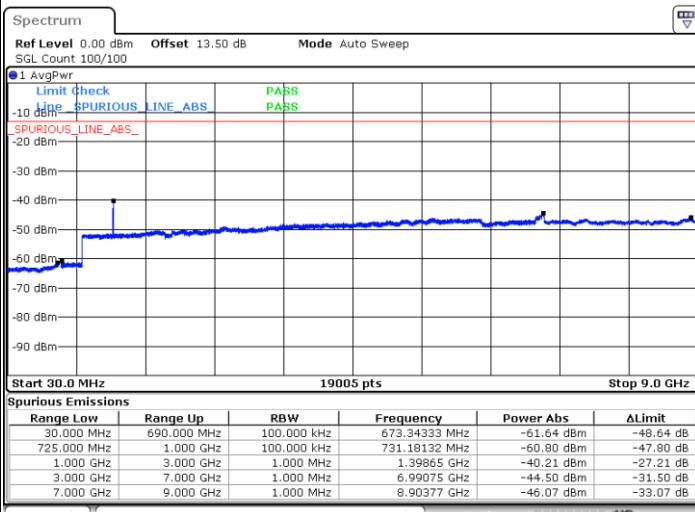
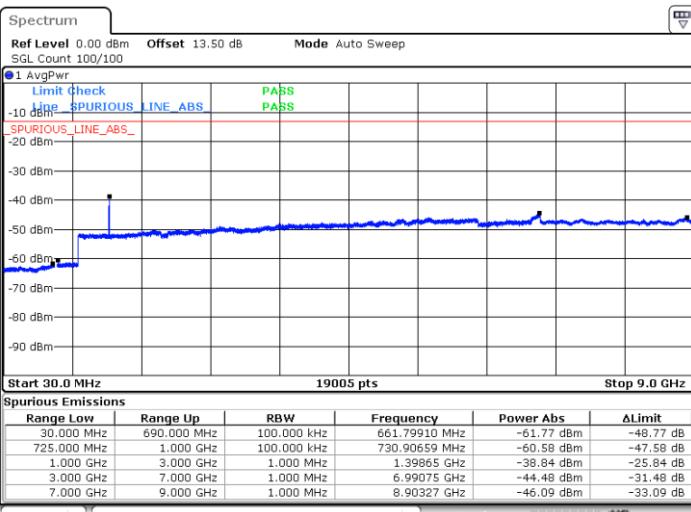
Highest Channel / 16QAM

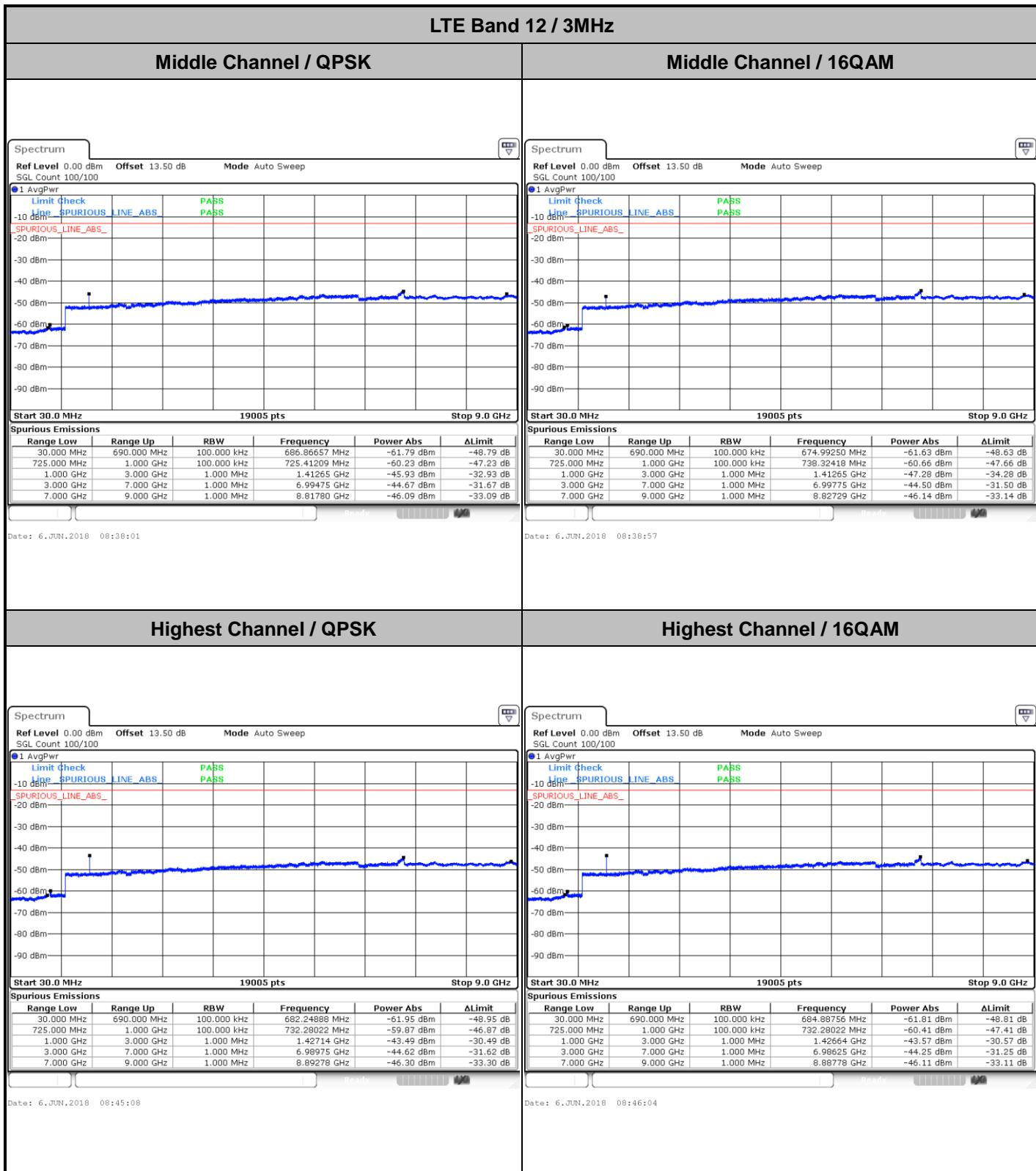


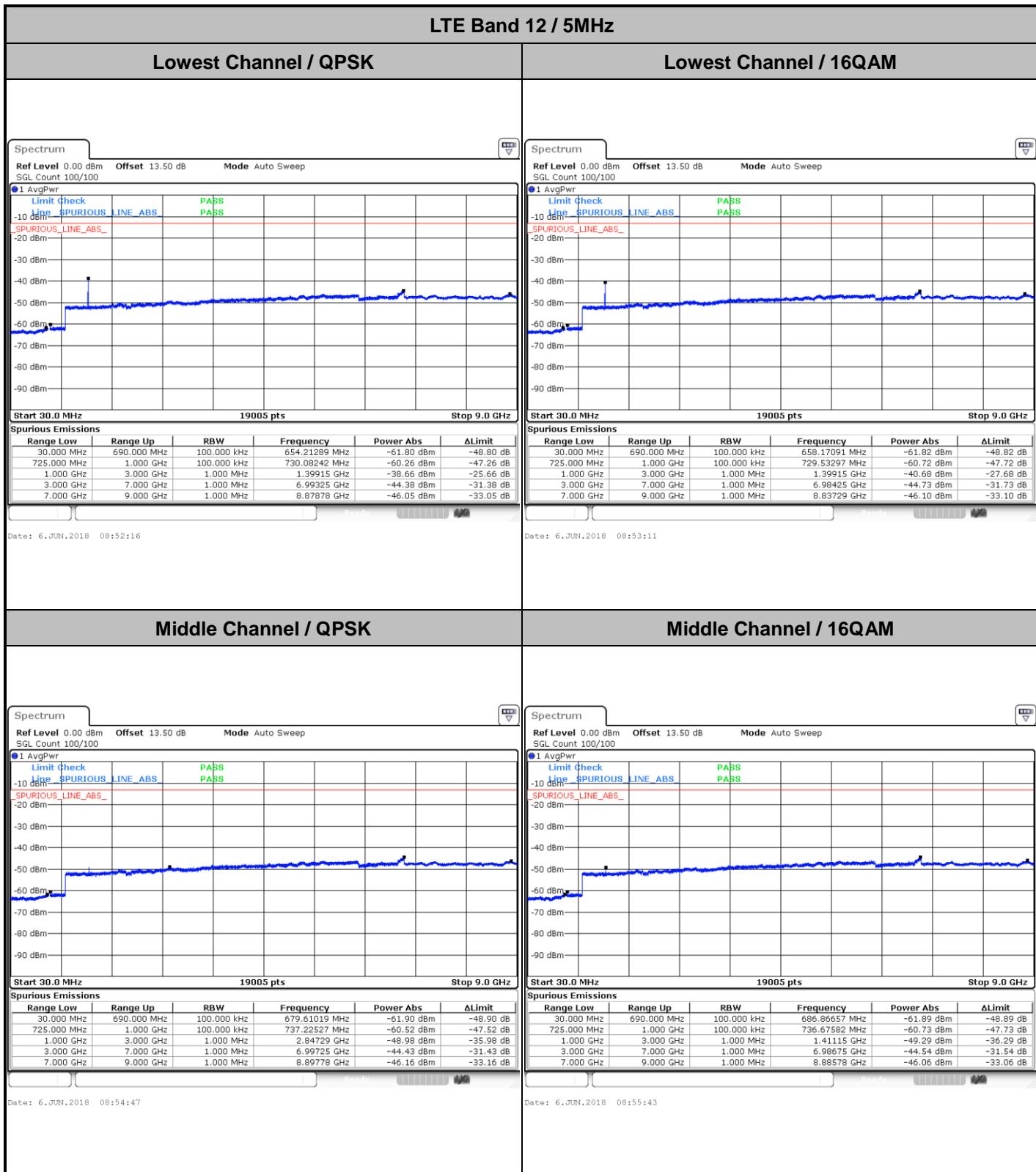
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





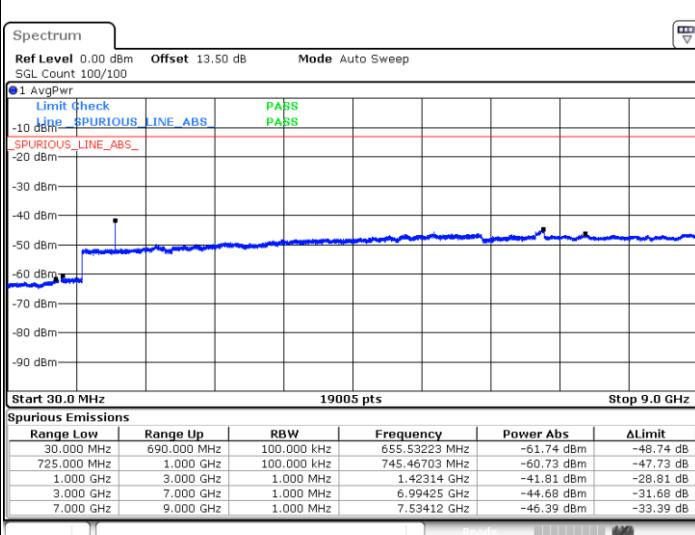
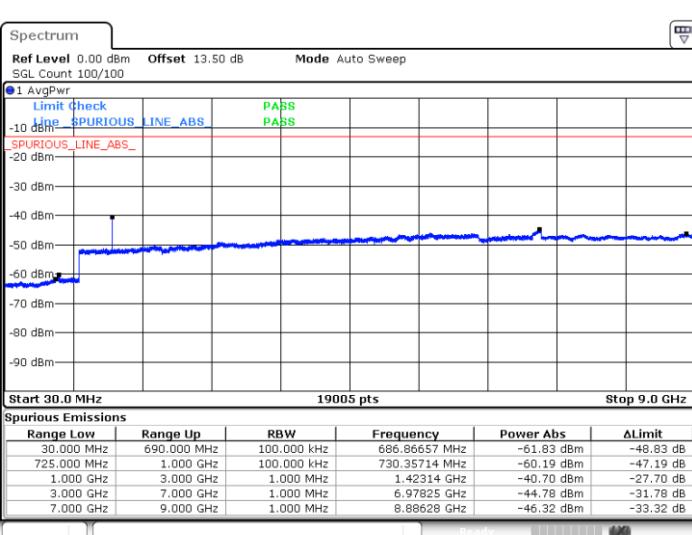




LTE Band 12 / 5MHz

Highest Channel / QPSK

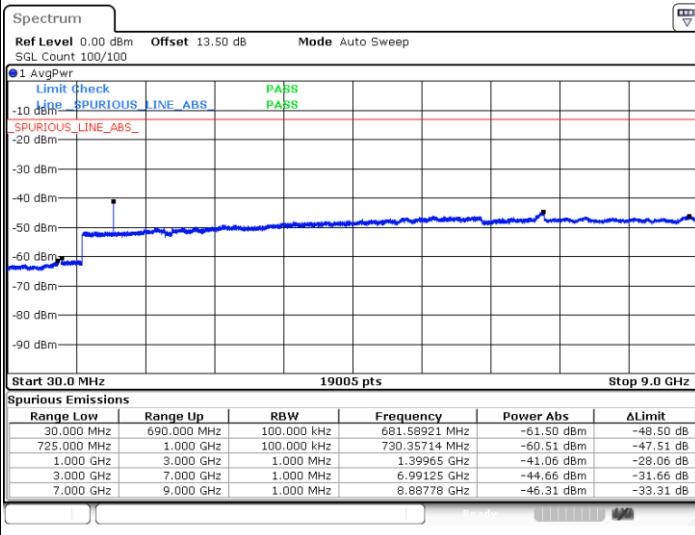
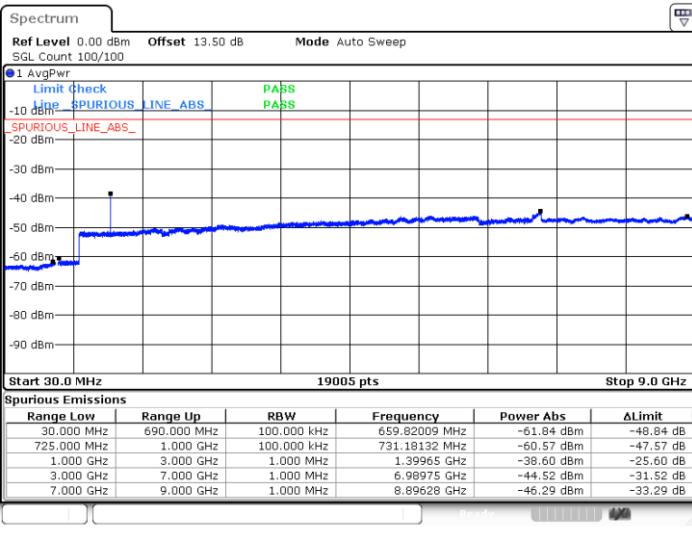
Highest Channel / 16QAM

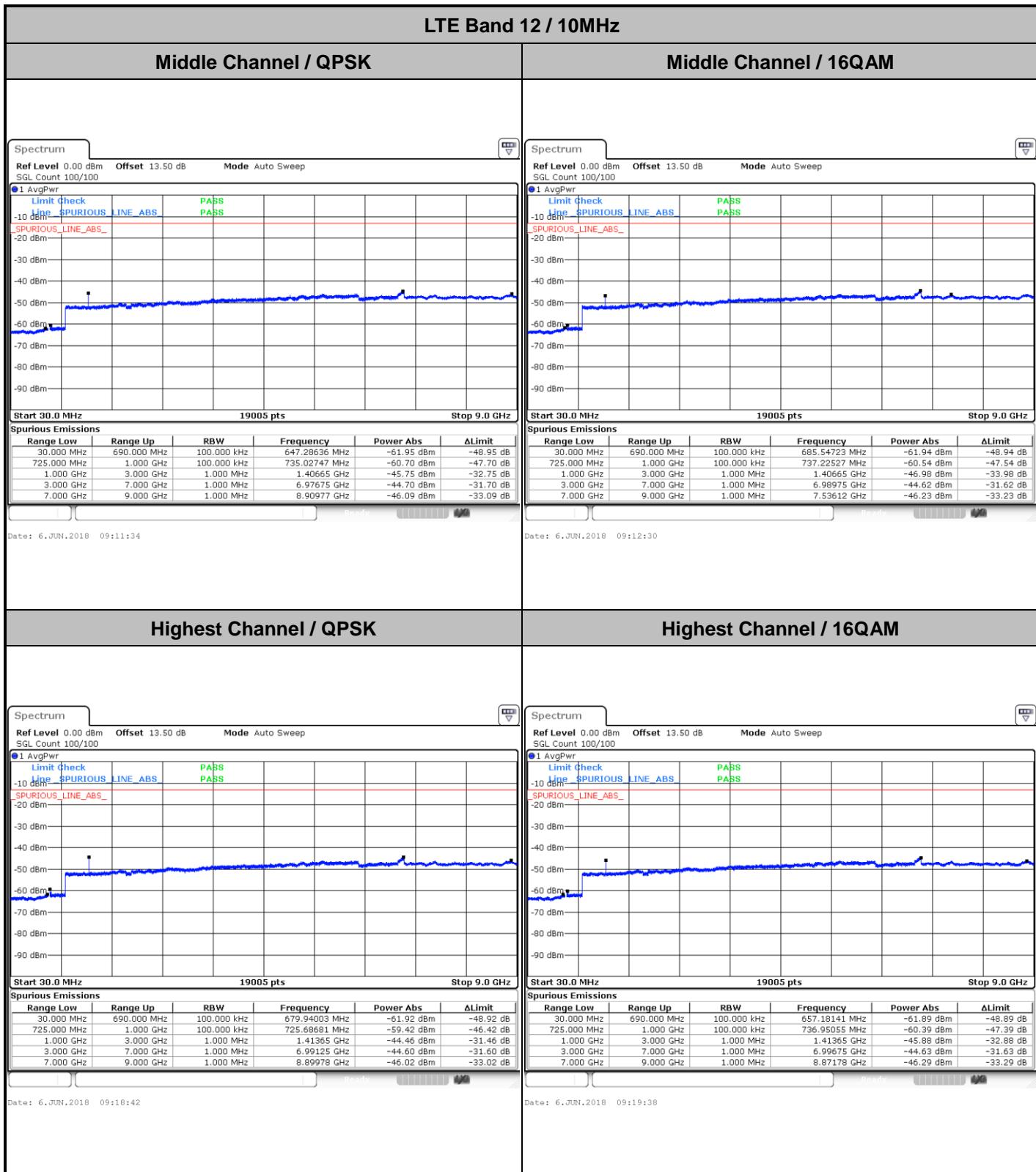


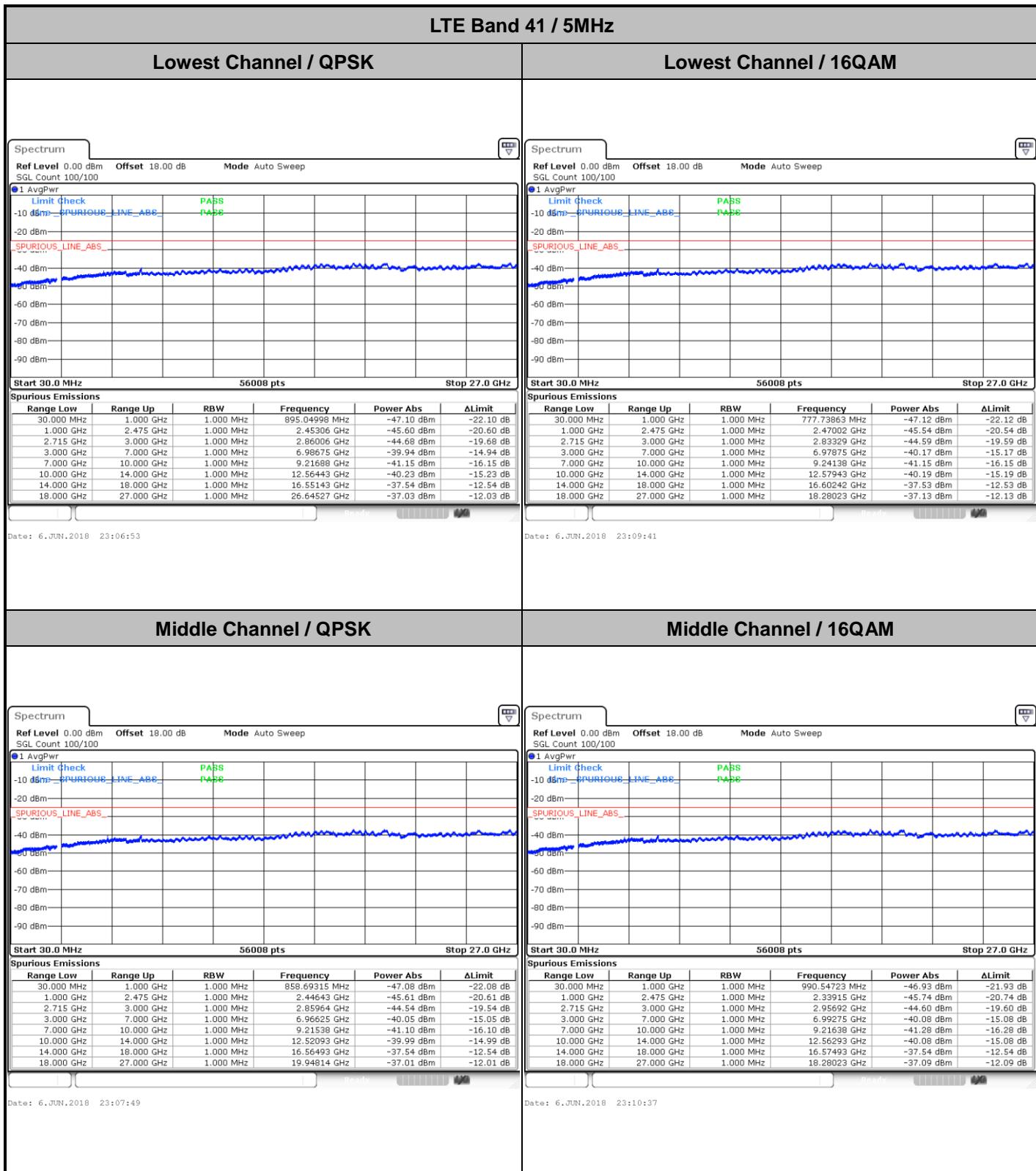
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





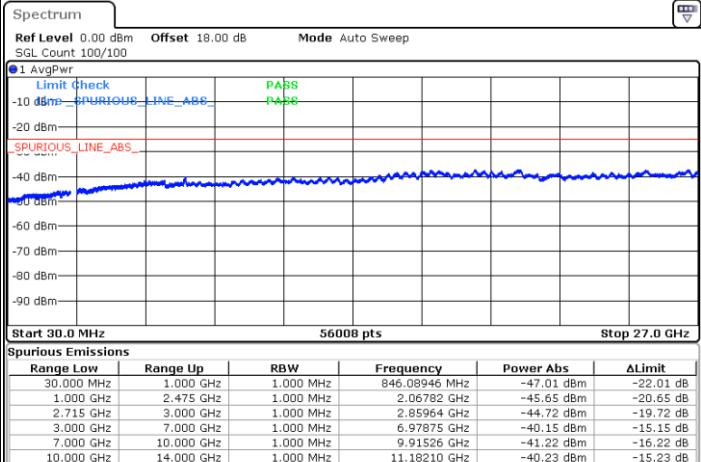
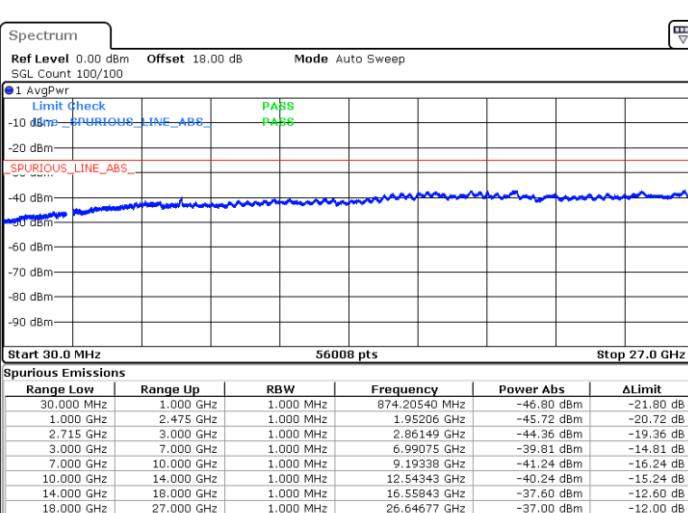




LTE Band 41 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM

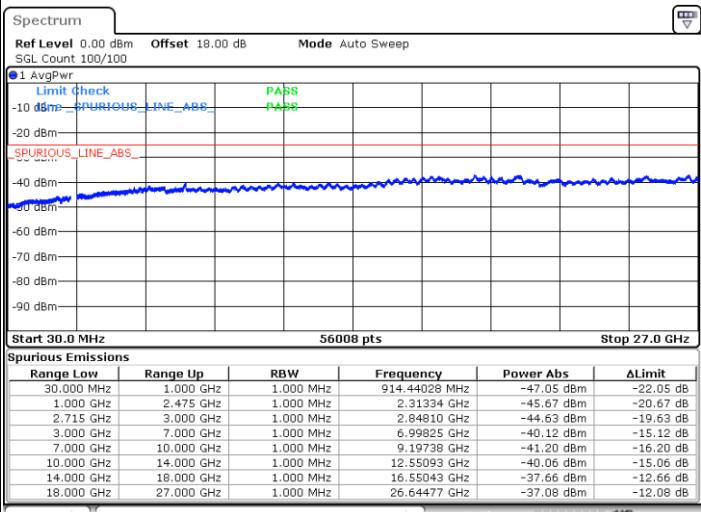
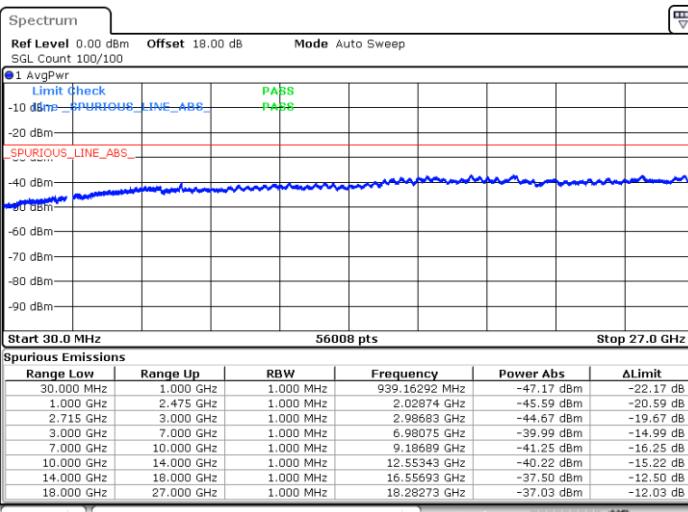


Date: 6.JUN.2018 23:11:33

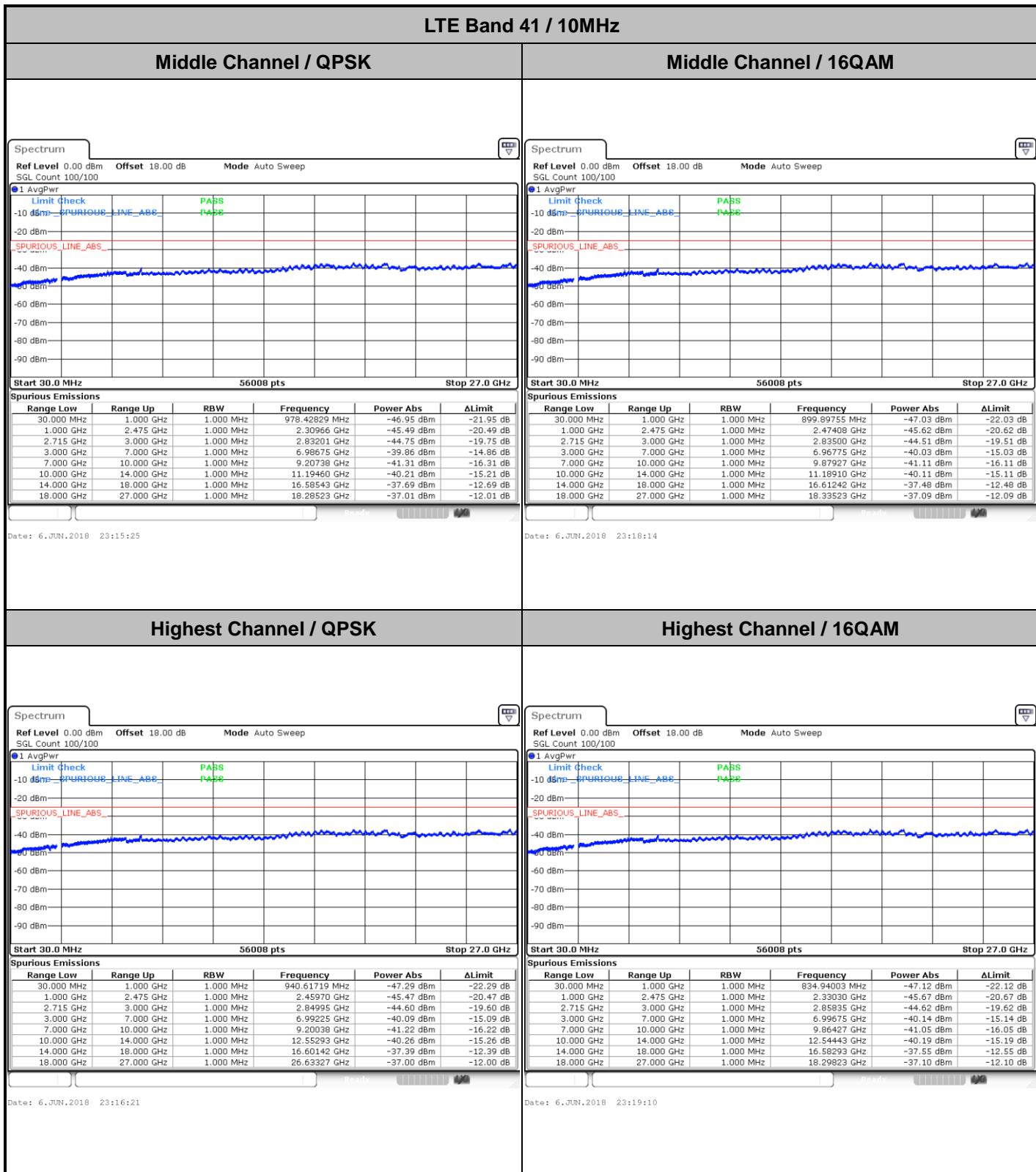
LTE Band 41 / 10MHz

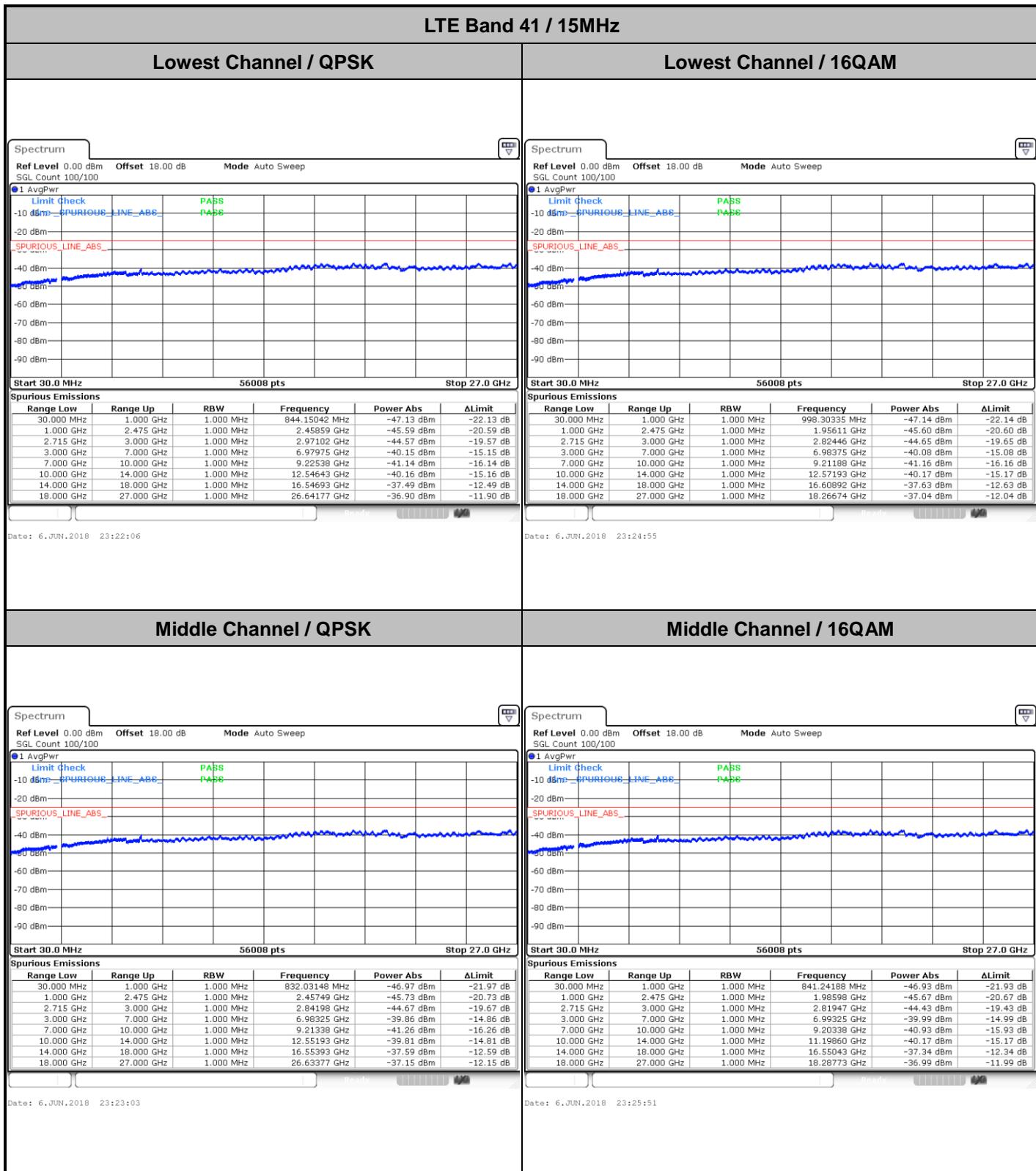
Lowest Channel / QPSK

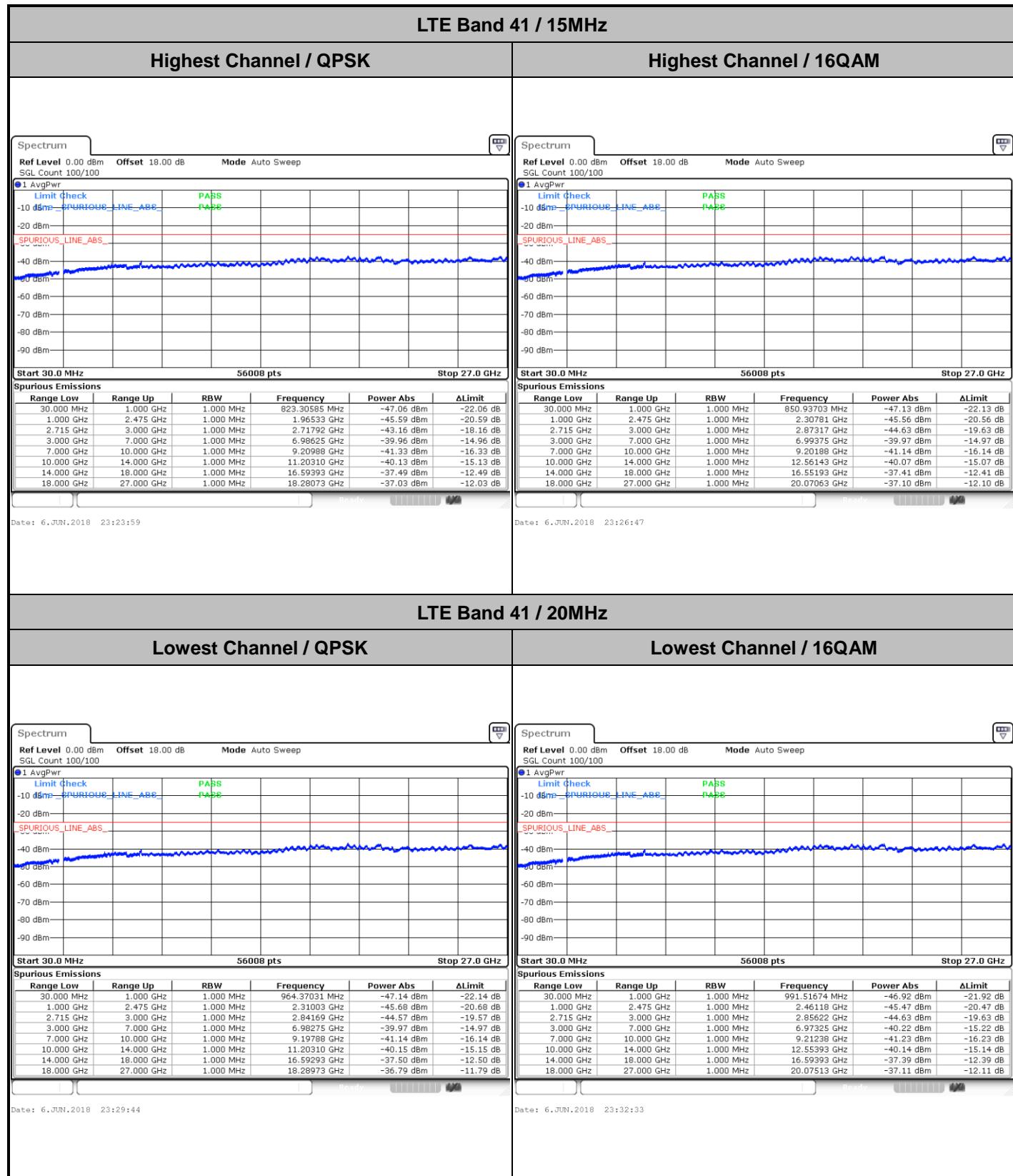
Lowest Channel / 16QAM

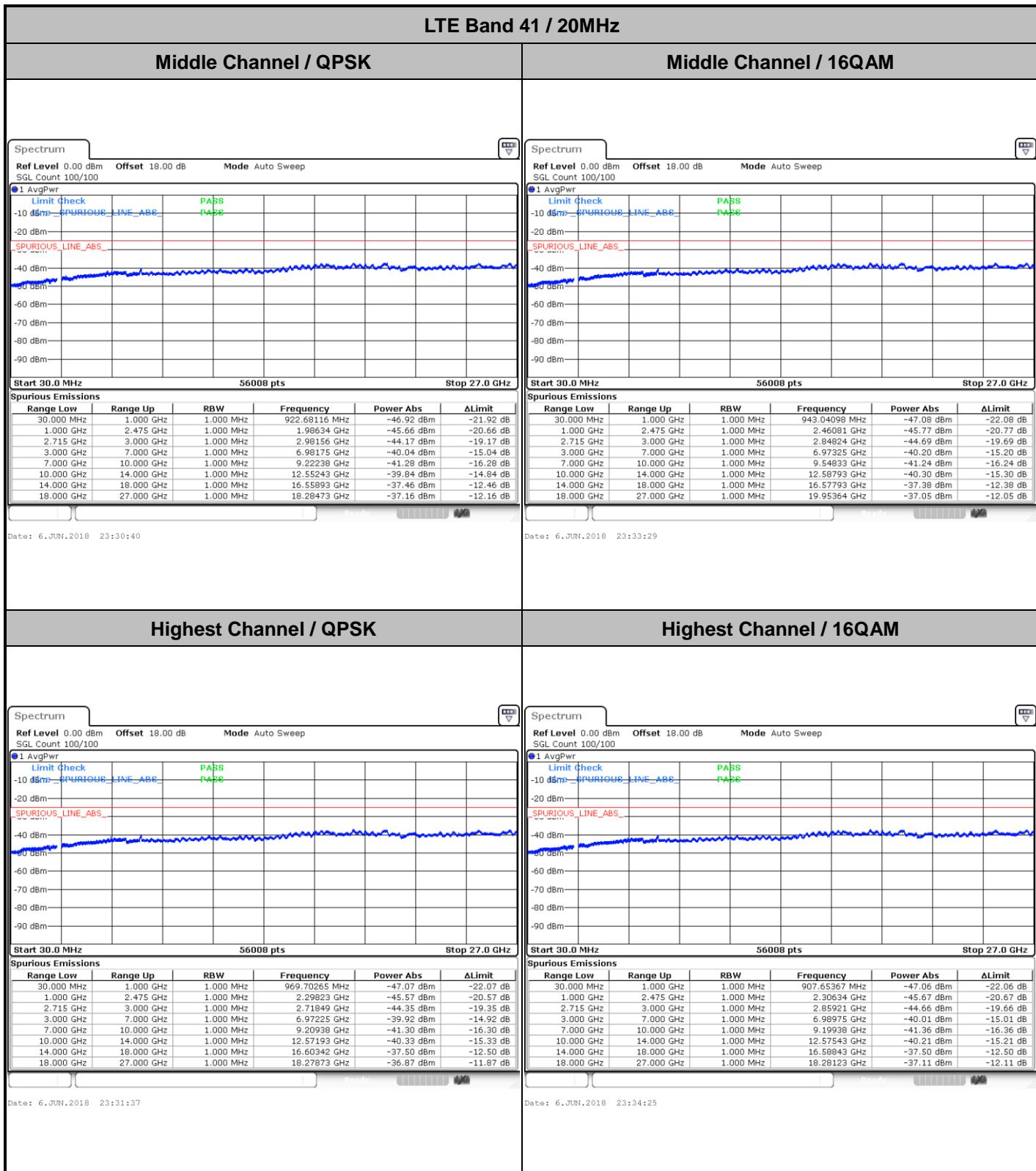


Date: 6.JUN.2018 23:17:18











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	0.0032	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0030	
-30	Normal Voltage	0.0071	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

1. Normal Voltage =12 V. ; Battery End Point (BEP) =9.6 V. ; Maximum Voltage =14.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0055	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0083	
-10	Normal Voltage	0.0044	
-20	Normal Voltage	0.0042	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0068	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Note:

1. Normal Voltage =12 V. ; Battery End Point (BEP) =9.6 V. ; Maximum Voltage =14.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =12 V. ; Battery End Point (BEP) =9.6 V. ; Maximum Voltage =14.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 4 / 1.4MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3463.74	-32.08	-13	-19.08	-53.02	-38.93	5.65	12.50	H
	5195.61	-34.63	-13	-21.63	-61.82	-40.30	7.13	12.80	H
	6927.48	-44.50	-13	-31.50	-73.58	-47.90	8.40	11.80	H
	8659.35	-36.70	-13	-23.70	-69.70	-39.55	8.75	11.60	H
	3463.74	-29.83	-13	-16.83	-50.28	-36.68	5.65	12.50	V
	5195.61	-28.13	-13	-15.13	-54.25	-33.80	7.13	12.80	V
	6927.48	-44.10	-13	-31.10	-72.8	-47.50	8.40	11.80	V
	8659.35	-37.84	-13	-24.84	-70.8	-40.69	8.75	11.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 4 / 3MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3462.48	-30.83	-13	-17.83	-51.77	-37.68	5.65	12.50	H
	5193.72	-30.70	-13	-17.70	-57.86	-36.37	7.13	12.80	H
	6924.96	-41.82	-13	-28.82	-70.90	-45.22	8.40	11.80	H
	8655.75	-32.78	-13	-19.78	-65.87	-35.63	8.75	11.60	H
	3462.48	-28.50	-13	-15.50	-48.95	-35.35	5.65	12.50	V
	5193.72	-24.37	-13	-11.37	-50.46	-30.04	7.13	12.80	V
	6924.96	-40.89	-13	-27.89	-69.59	-44.29	8.40	11.80	V
	8655.75	-33.51	-13	-20.51	-66.5	-36.36	8.75	11.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3460.68	-30.33	-13	-17.33	-51.29	-37.18	5.65	12.50	H
	5191.02	-31.75	-13	-18.75	-58.91	-37.42	7.13	12.80	H
	6921.36	-40.41	-13	-27.41	-69.51	-43.81	8.40	11.80	H
	8651.25	-33.27	-13	-20.27	-66.36	-36.12	8.75	11.60	H
	3460.68	-28.28	-13	-15.28	-48.75	-35.13	5.65	12.50	V
	5191.02	-25.46	-13	-12.46	-51.55	-31.13	7.13	12.80	V
	6921.36	-39.88	-13	-26.88	-68.5	-43.28	8.40	11.80	V
	8651.25	-34.81	-13	-21.81	-67.8	-37.66	8.75	11.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 4 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3456.18	-31.51	-13	-18.51	-52.25	-38.36	5.65	12.50	H
	5184.27	-33.78	-13	-20.78	-60.90	-39.45	7.13	12.80	H
	6912.36	-39.80	-13	-26.80	-68.90	-43.20	8.40	11.80	H
	8640.14	-33.52	-13	-20.52	-66.69	-36.37	8.75	11.60	H
	3456.18	-29.36	-13	-16.36	-49.61	-36.21	5.65	12.50	V
	5184.27	-28.05	-13	-15.05	-54.17	-33.72	7.13	12.80	V
	6912.36	-41.39	-13	-28.39	-70.01	-44.79	8.40	11.80	V
	8640.14	-34.34	-13	-21.34	-67.36	-37.19	8.75	11.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 15MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3451.68	-29.27	-13	-16.27	-50.01	-36.12	5.65	12.50	H
	5177.52	-33.44	-13	-20.44	-60.56	-39.11	7.13	12.80	H
	6903.36	-38.91	-13	-25.91	-68.03	-42.31	8.40	11.80	H
	8628.75	-32.92	-13	-19.92	-66.05	-35.77	8.75	11.60	H
	3451.68	-27.43	-13	-14.43	-47.68	-34.28	5.65	12.50	V
	5177.52	-26.44	-13	-13.44	-52.56	-32.11	7.13	12.80	V
	6903.36	-41.14	-13	-28.14	-69.67	-44.54	8.40	11.80	V
	8628.75	-34.33	-13	-21.33	-67.31	-37.18	8.75	11.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 4 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3447.18	-29.18	-13	-16.18	-49.92	-36.03	5.65	12.50	H
	5170.77	-33.25	-13	-20.25	-60.34	-38.92	7.13	12.80	H
	6894.36	-39.45	-13	-26.45	-68.57	-42.85	8.40	11.80	H
	8617.5	-37.11	-13	-24.11	-70.32	-39.96	8.75	11.60	H
	3447.18	-27.58	-13	-14.58	-47.83	-34.43	5.65	12.50	V
	5170.77	-26.74	-13	-13.74	-52.9	-32.41	7.13	12.80	V
	6894.36	-41.10	-13	-28.10	-69.63	-44.50	8.40	11.80	V
	8617.5	-37.71	-13	-24.71	-70.72	-40.56	8.75	11.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 12 / 1.4MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1413.74	-33.12	-13	-20.12	-47.25	-36.37	4.00	9.40	H
	2120.61	-48.21	-13	-35.21	-66.23	-51.78	4.88	10.60	H
	2827.48	-53.44	-13	-40.44	-73.36	-58.37	5.52	12.60	H
	3534.35	-51.14	-13	-38.14	-72.98	-55.61	6.00	12.62	H
	1413.74	-31.16	-13	-18.16	-44.96	-34.41	4.00	9.40	V
	2120.61	-50.56	-13	-37.56	-68.27	-54.13	4.88	10.60	V
	2827.48	-53.71	-13	-40.71	-73.30	-58.64	5.52	12.60	V
	3534.35	-47.92	-13	-34.92	-69.28	-52.39	6.00	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 12 / 3MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1412.3	-34.27	-13	-21.27	-48.40	-37.52	4.00	9.40	H
	2118.45	-49.41	-13	-36.41	-67.43	-52.98	4.88	10.60	H
	2824.6	-53.94	-13	-40.94	-73.86	-58.87	5.52	12.60	H
	3530.75	-52.41	-13	-39.41	-74.25	-56.88	6.00	12.62	H
	1412.3	-31.86	-13	-18.86	-45.66	-35.11	4.00	9.40	V
	2118.45	-51.24	-13	-38.24	-68.95	-54.81	4.88	10.60	V
	2824.6	-52.85	-13	-39.85	-72.44	-57.78	5.52	12.60	V
	3530.75	-48.82	-13	-35.82	-70.18	-53.29	6.00	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 12 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1410.5	-35.18	-13	-22.18	-49.31	-38.43	4.00	9.40	H
	2115.75	-51.06	-13	-38.06	-69.08	-54.63	4.88	10.60	H
	2821	-52.60	-13	-39.60	-72.48	-57.53	5.52	12.60	H
	3526.25	-52.61	-13	-39.61	-74.45	-57.08	6.00	12.62	H
	1410.5	-33.35	-13	-20.35	-47.15	-36.60	4.00	9.40	V
	2115.75	-52.14	-13	-39.14	-69.85	-55.71	4.88	10.60	V
	2821	-52.68	-13	-39.68	-72.23	-57.61	5.52	12.60	V
	3526.25	-49.01	-13	-36.01	-70.37	-53.48	6.00	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 12 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1406	-35.62	-13	-22.62	-49.75	-38.87	4.00	9.40	H
	2109	-51.18	-13	-38.18	-68.95	-54.75	4.88	10.60	H
	2812	-54.81	-13	-41.81	-74.69	-59.74	5.52	12.60	H
	3515	-52.45	-13	-39.45	-74.07	-56.92	6.00	12.62	H
	1406	-33.96	-13	-20.96	-47.76	-37.21	4.00	9.40	V
	2109	-49.69	-13	-36.69	-67.13	-53.26	4.88	10.60	V
	2812	-53.67	-13	-40.67	-73.22	-58.60	5.52	12.60	V
	3515	-49.97	-13	-36.97	-71.11	-54.44	6.00	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 41 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5181.68	-29.41	-25	-4.41	-56.53	-35.08	7.13	12.80	H
	7772.52	-33.87	-25	-8.87	-64.85	-36.97	8.50	11.60	H
	10363.36	-42.45	-25	-17.45	-77.66	-43.79	10.68	12.02	H
	5181.68	-27.89	-25	-2.89	-54.01	-33.56	7.13	12.80	V
	7772.52	-37.25	-25	-12.25	-67.69	-40.35	8.50	11.60	V
	10363.36	-41.38	-25	-16.38	-77.07	-42.72	10.68	12.02	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 41 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5177.18	-31.84	-25	-6.84	-58.96	-37.51	7.13	12.80	H
	7765.77	-33.14	-25	-8.14	-64.12	-36.24	8.50	11.60	H
	10354.36	-42.91	-25	-17.91	-78.06	-44.25	10.68	12.02	H
	5177.18	-27.58	-25	-2.58	-53.7	-33.25	7.13	12.80	V
	7765.77	-37.38	-25	-12.38	-67.82	-40.48	8.50	11.60	V
	10354.36	-40.24	-25	-15.24	-75.92	-41.58	10.68	12.02	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 41 / 15MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5172.68	-29.64	-25	-4.64	-56.73	-35.31	7.13	12.80	H
	7759.02	-34.93	-25	-9.93	-65.91	-38.03	8.50	11.60	H
	10345.36	-42.96	-25	-17.96	-78.10	-44.30	10.68	12.02	H
	5172.68	-28.57	-25	-3.57	-54.73	-34.24	7.13	12.80	V
	7759.02	-38.08	-25	-13.08	-68.52	-41.18	8.50	11.60	V
	10345.36	-41.33	-25	-16.33	-77	-42.67	10.68	12.02	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 41 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5168.18	-31.58	-25	-6.58	-58.63	-37.25	7.13	12.80	H
	7752.27	-35.05	-25	-10.05	-66.00	-38.15	8.50	11.60	H
	10336.36	-43.57	-25	-18.57	-78.66	-44.91	10.68	12.02	H
	5168.18	-28.87	-25	-3.87	-54.99	-34.54	7.13	12.80	V
	7752.27	-38.40	-25	-13.40	-68.81	-41.5	8.50	11.60	V
	10336.36	-41.88	-25	-16.88	-77.54	-43.22	10.68	12.02	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.