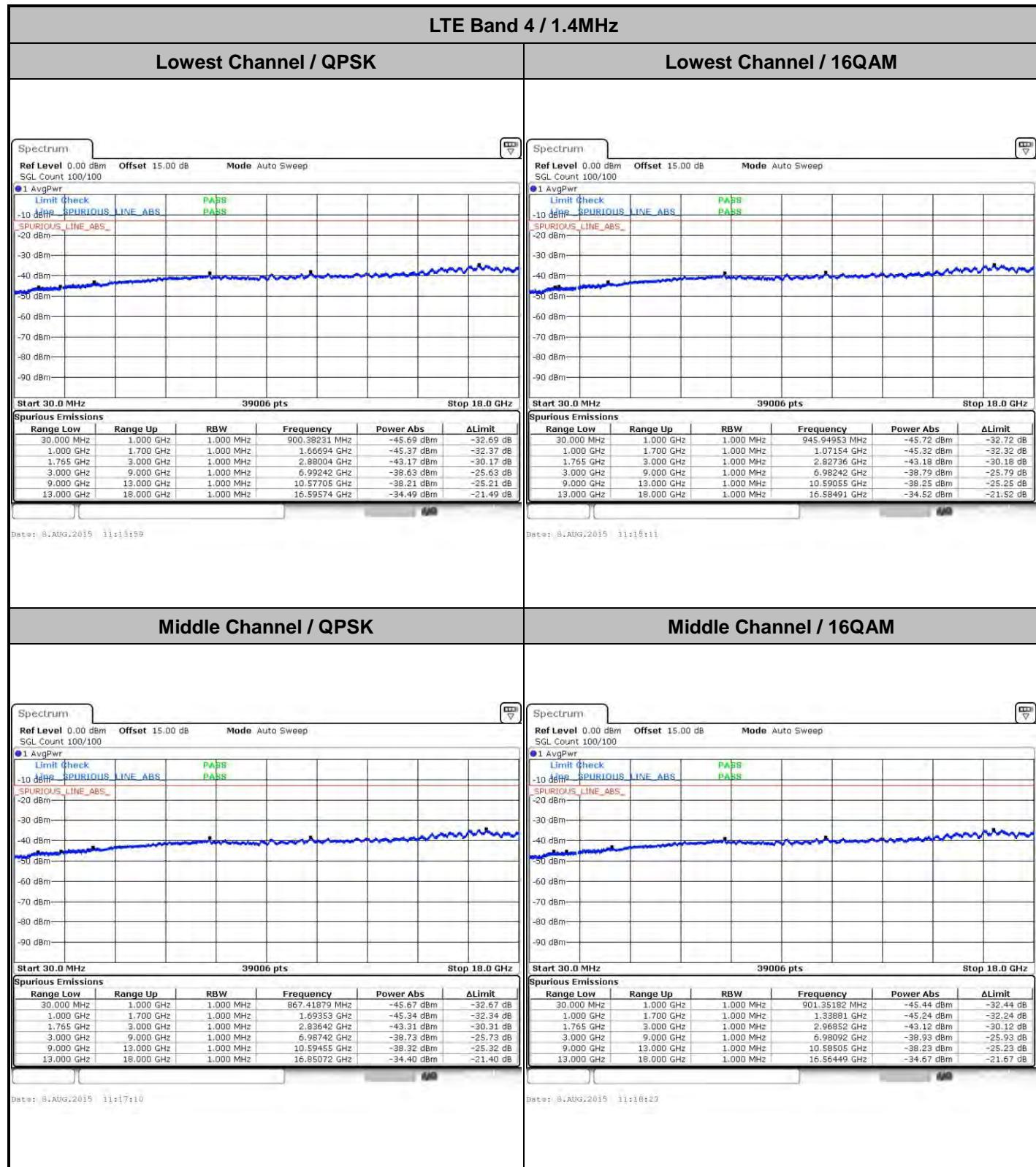




Conducted Spurious Emission

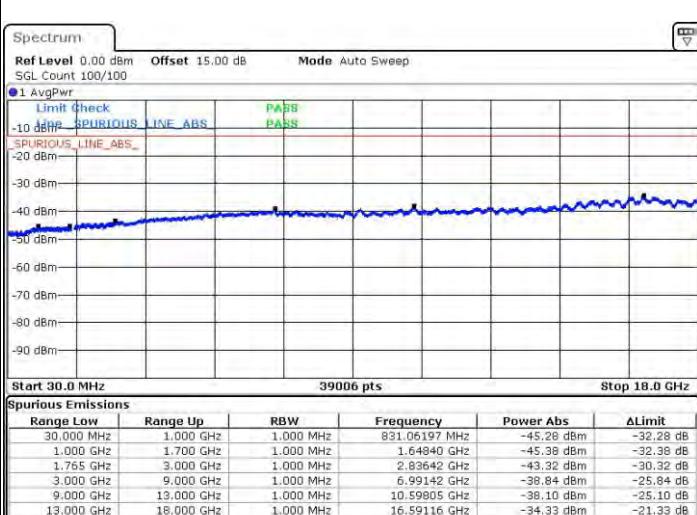
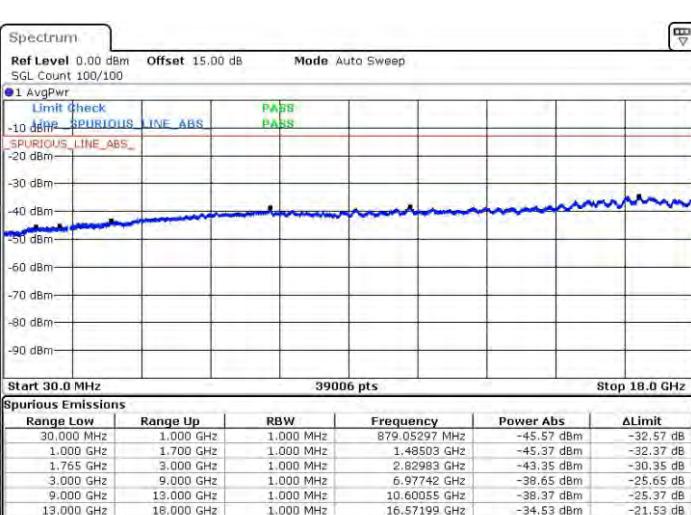




LTE Band 4 / 1.4MHz

Highest Channel / QPSK

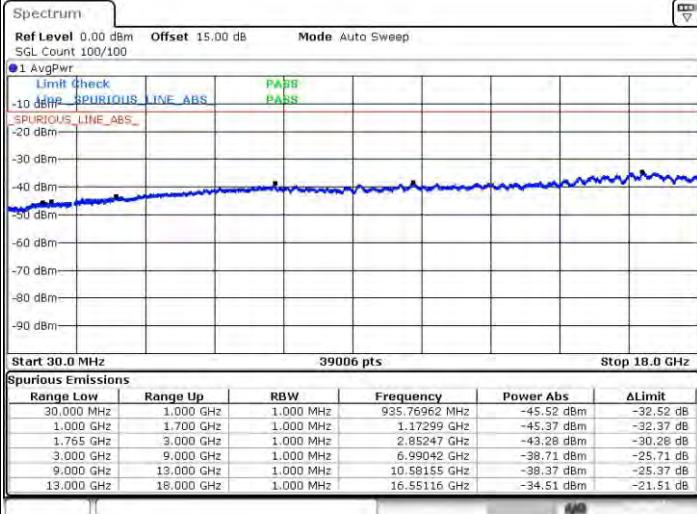
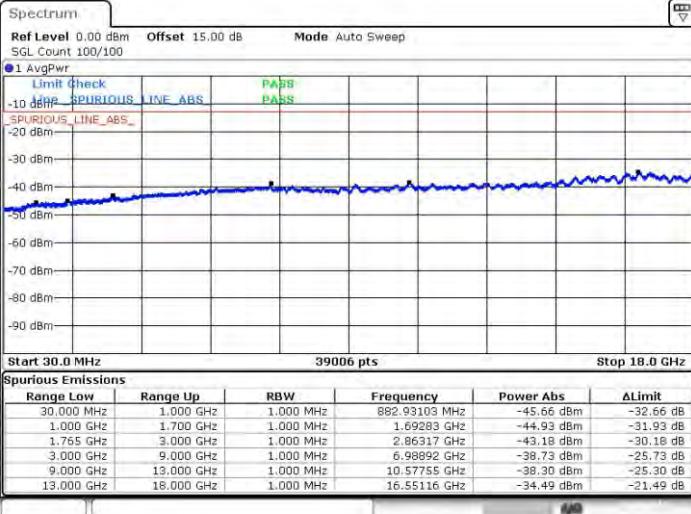
Highest Channel / 16QAM

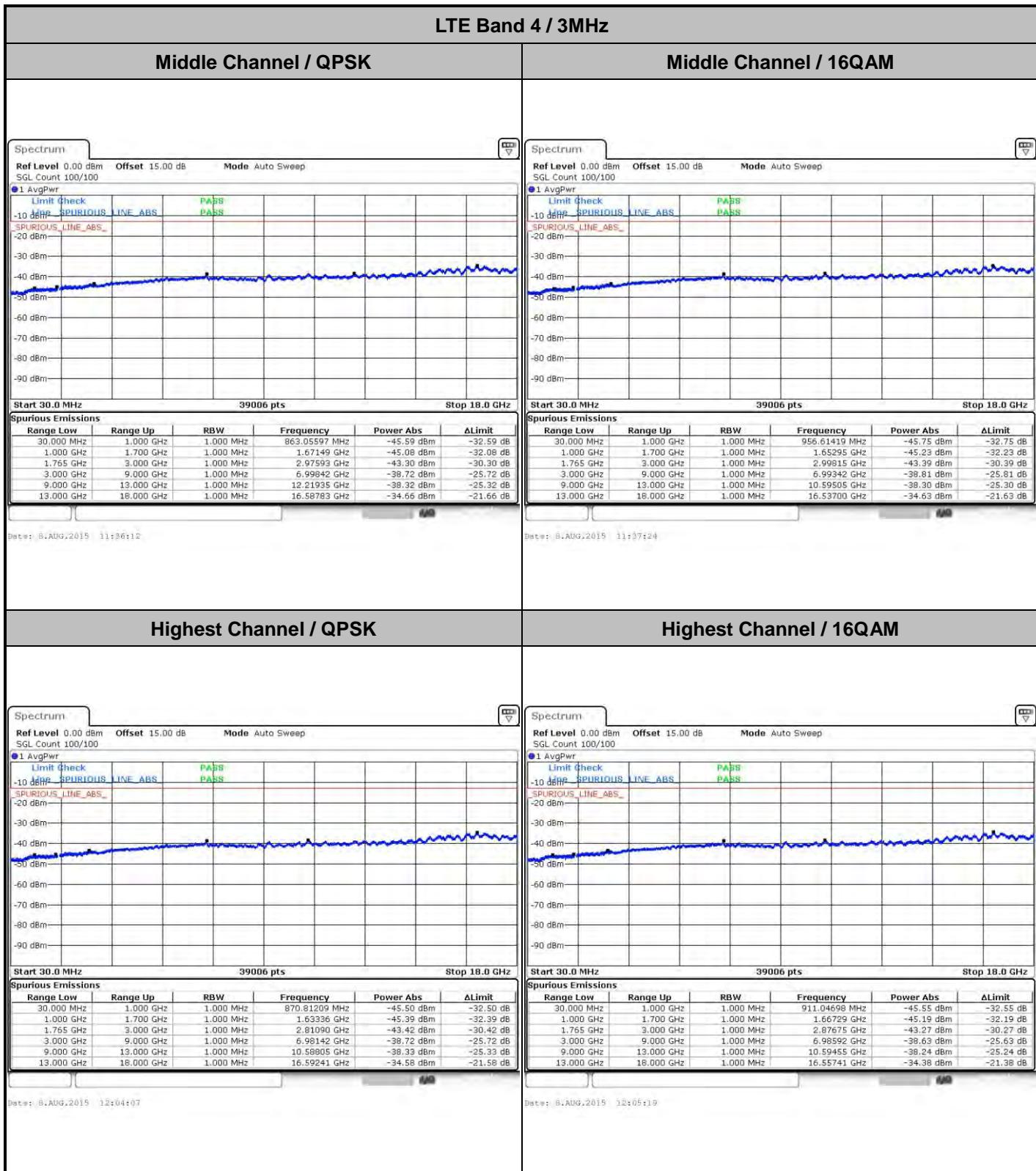


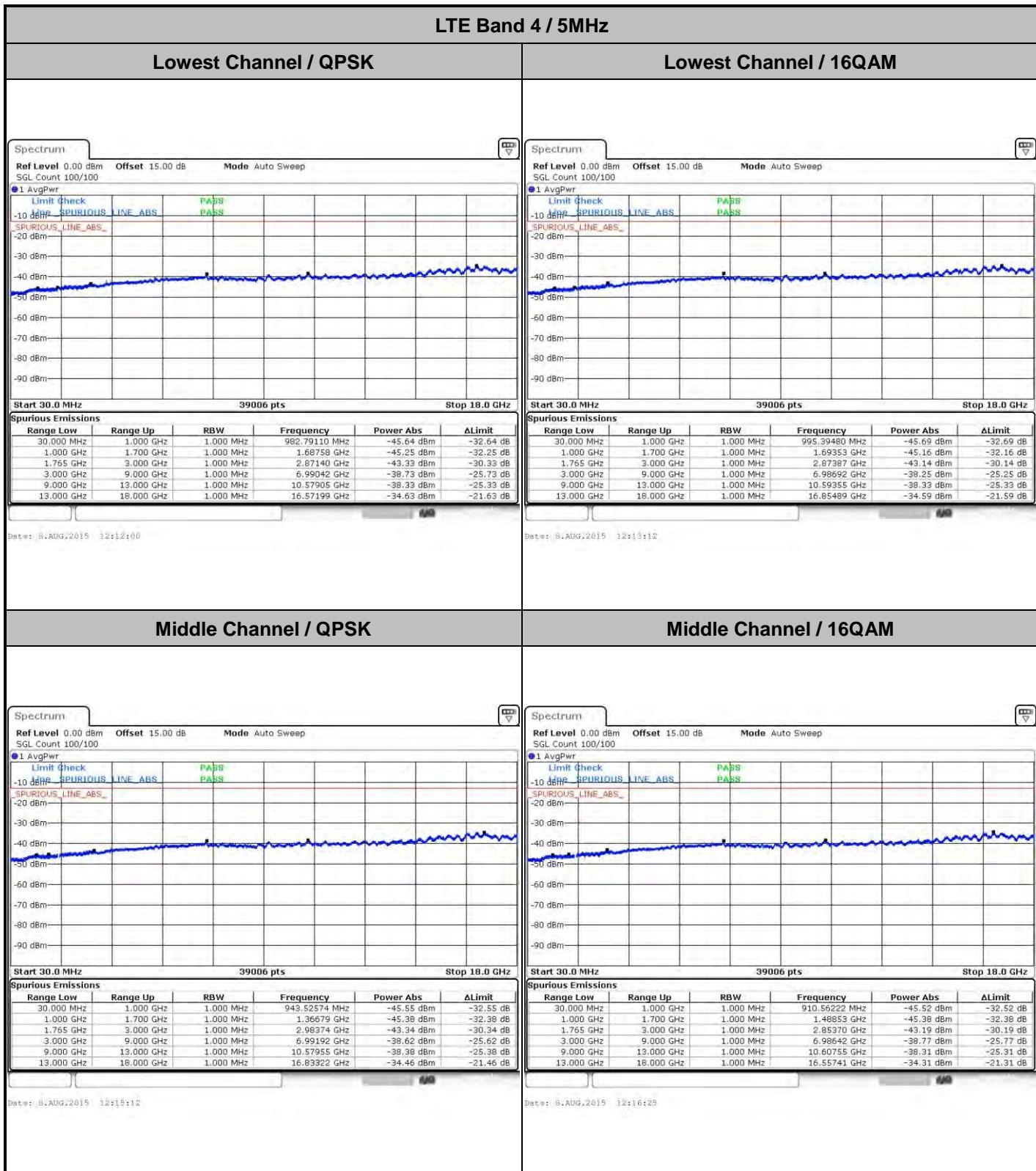
LTE Band 4 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





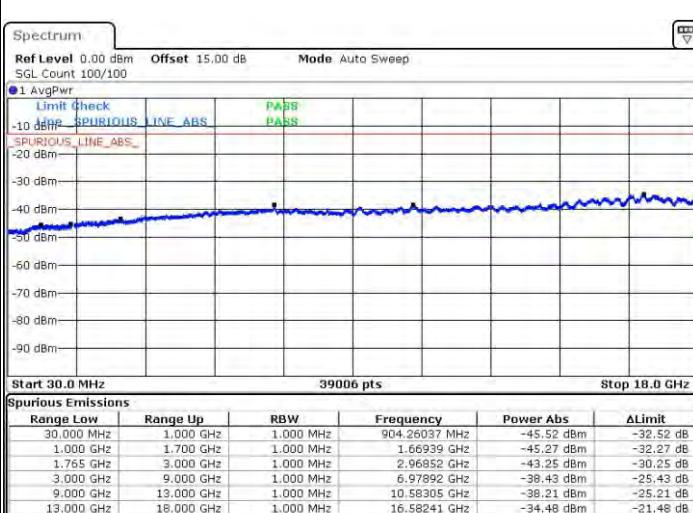
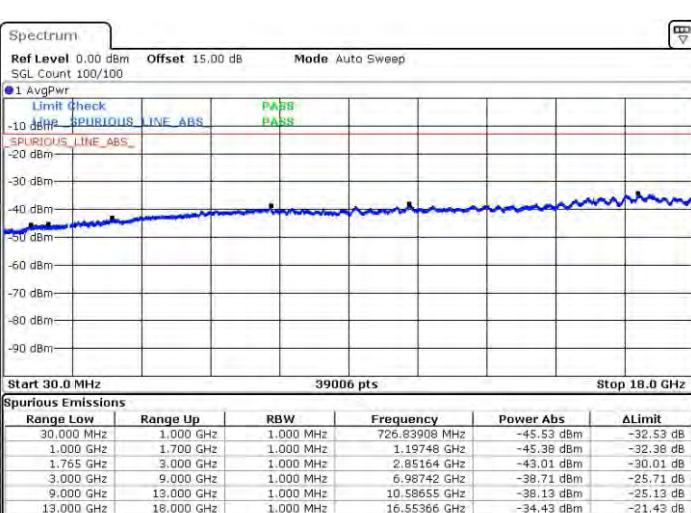




LTE Band 4 / 5MHz

Highest Channel / QPSK

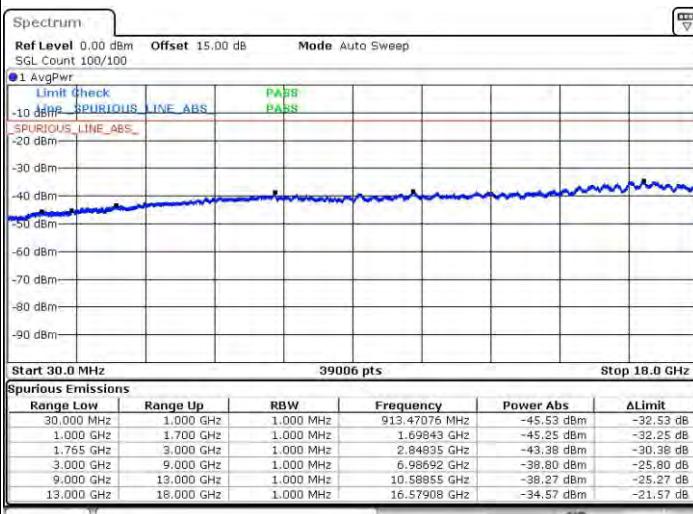
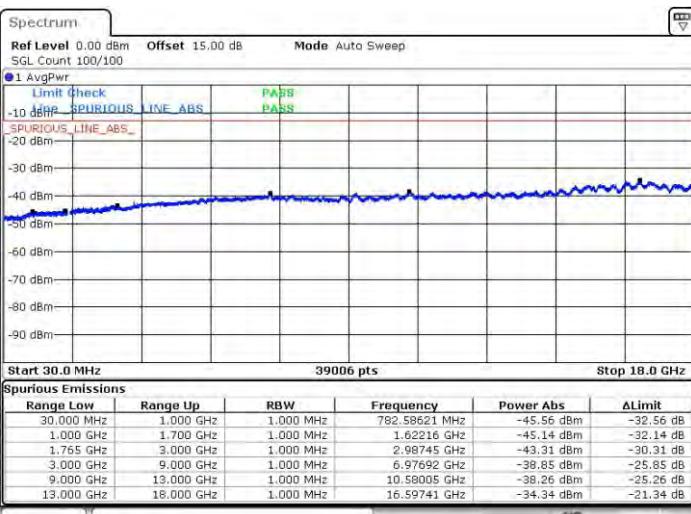
Highest Channel / 16QAM

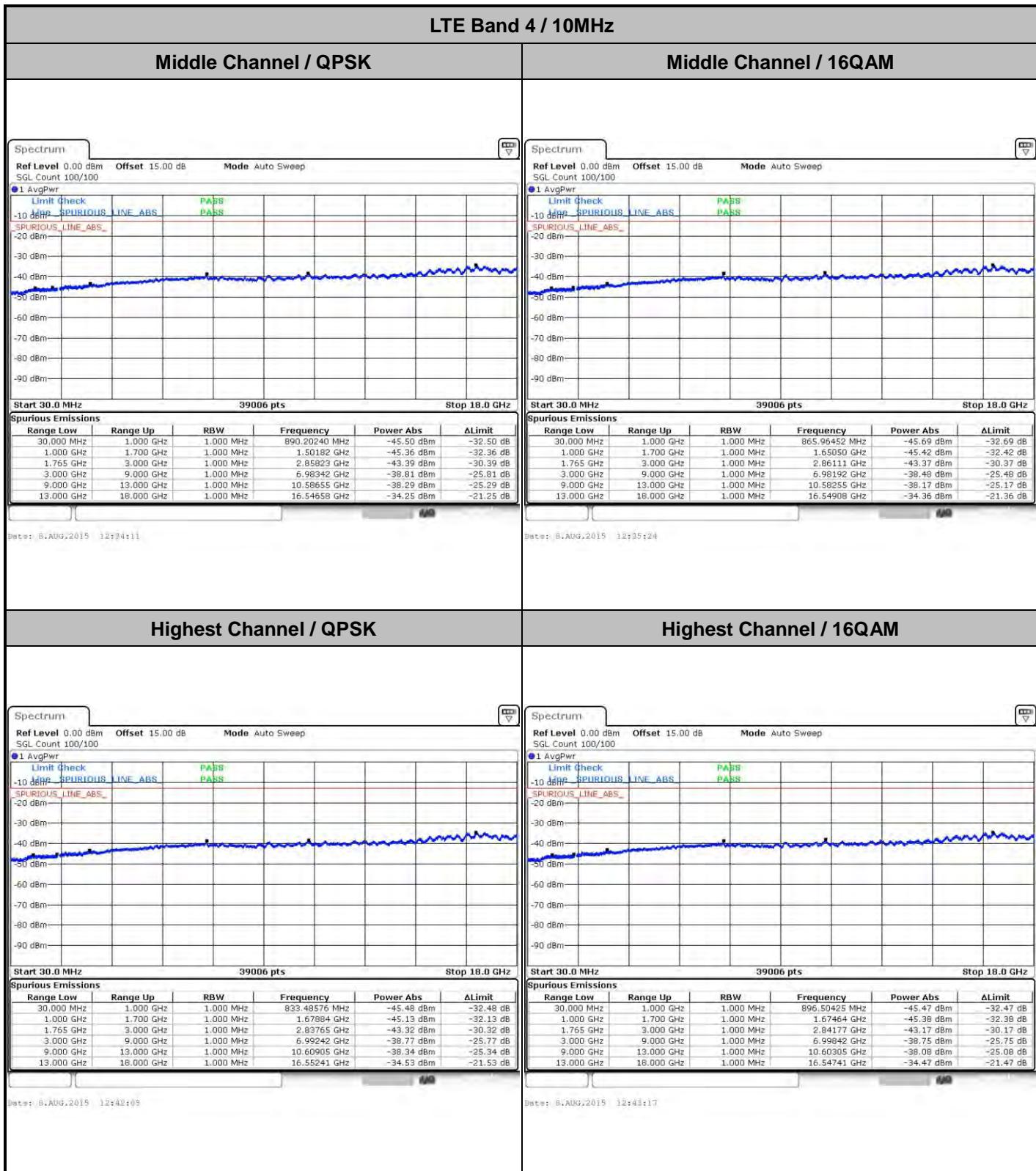


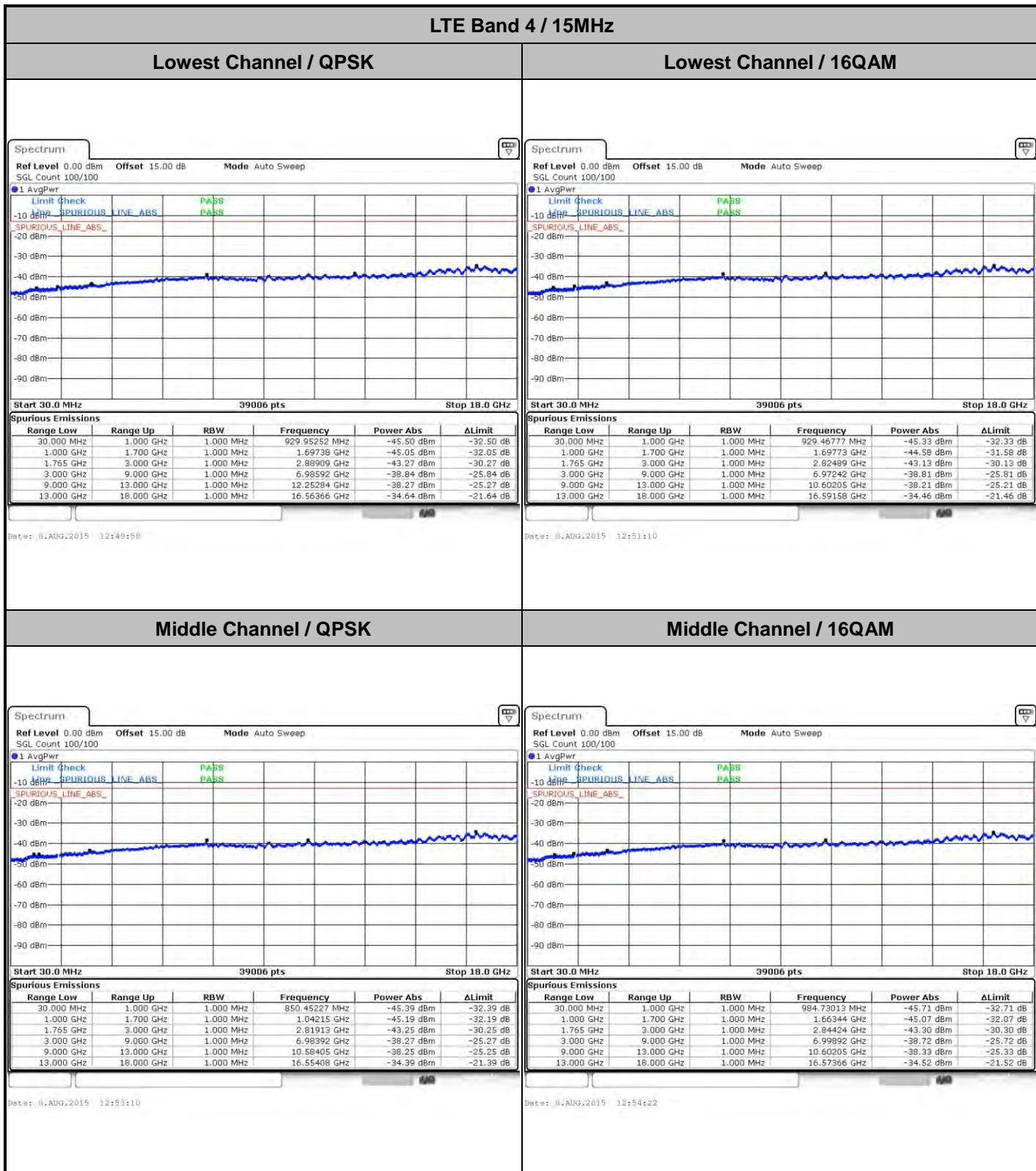
LTE Band 4 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





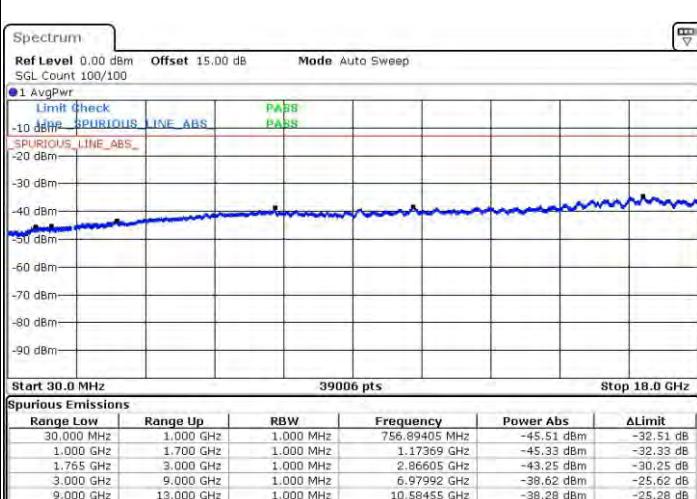
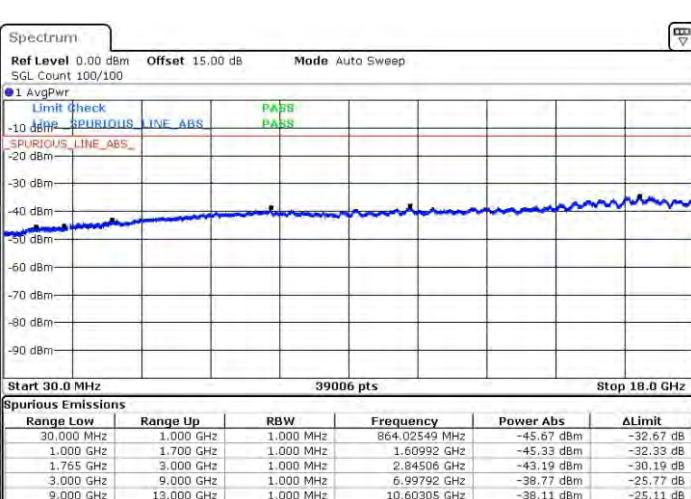




LTE Band 4 / 15MHz

Highest Channel / QPSK

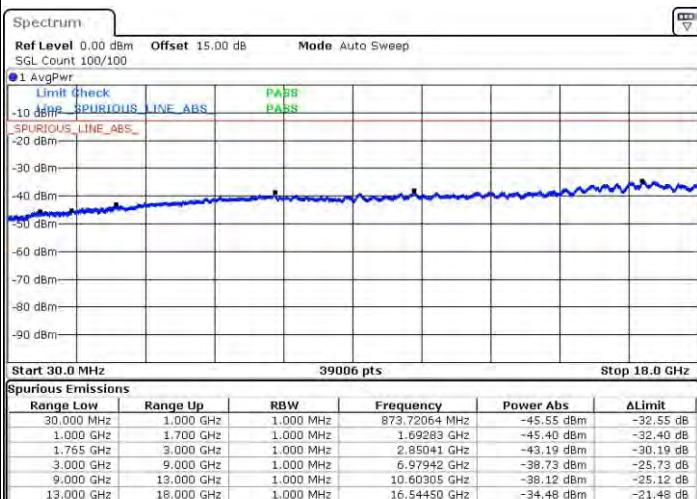
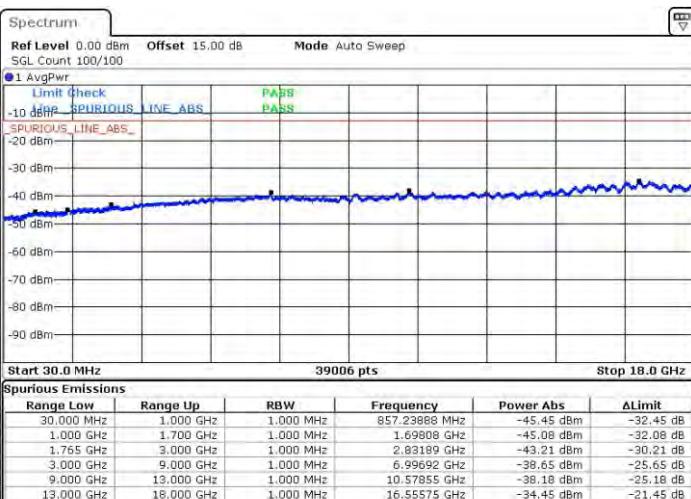
Highest Channel / 16QAM

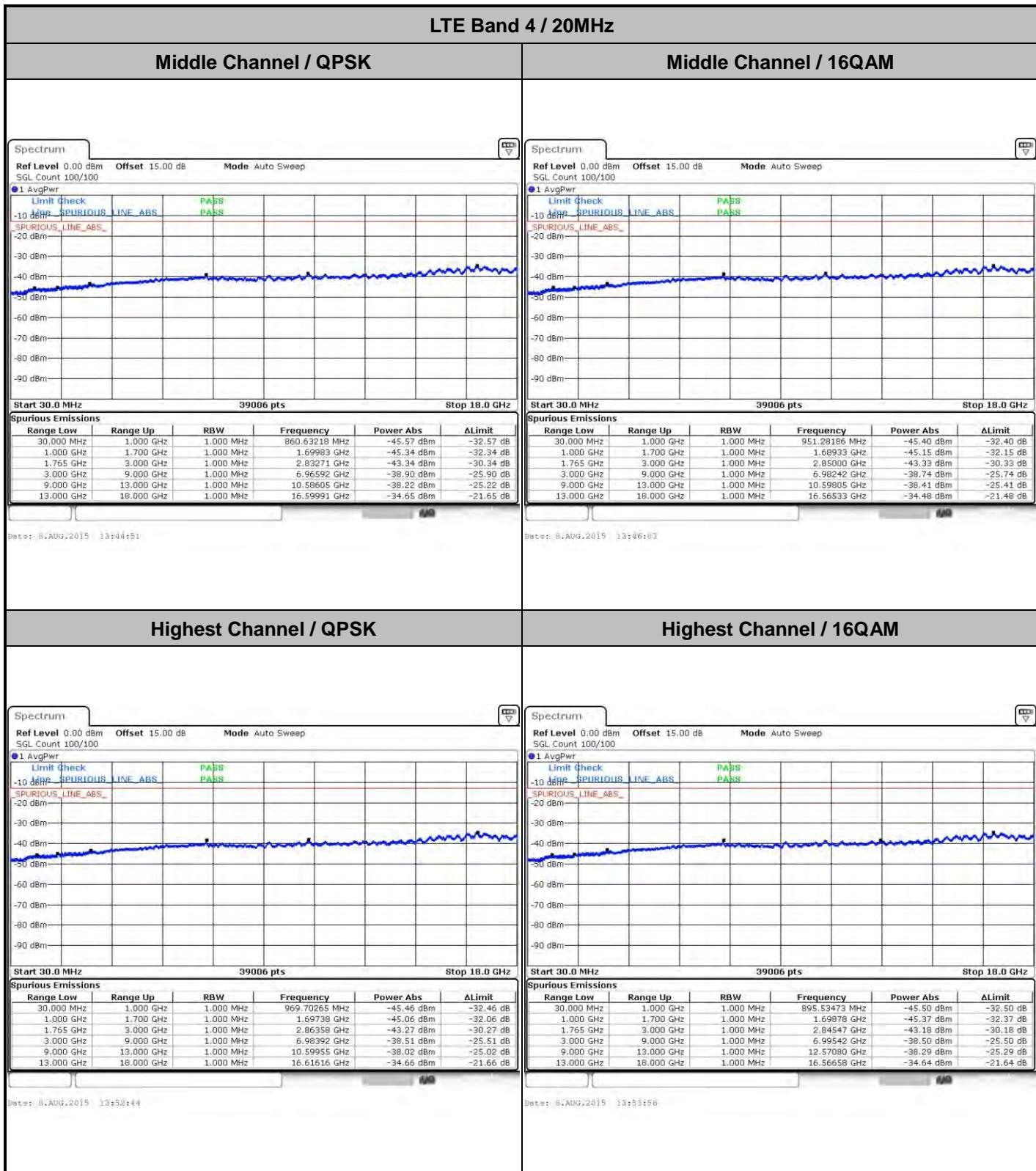


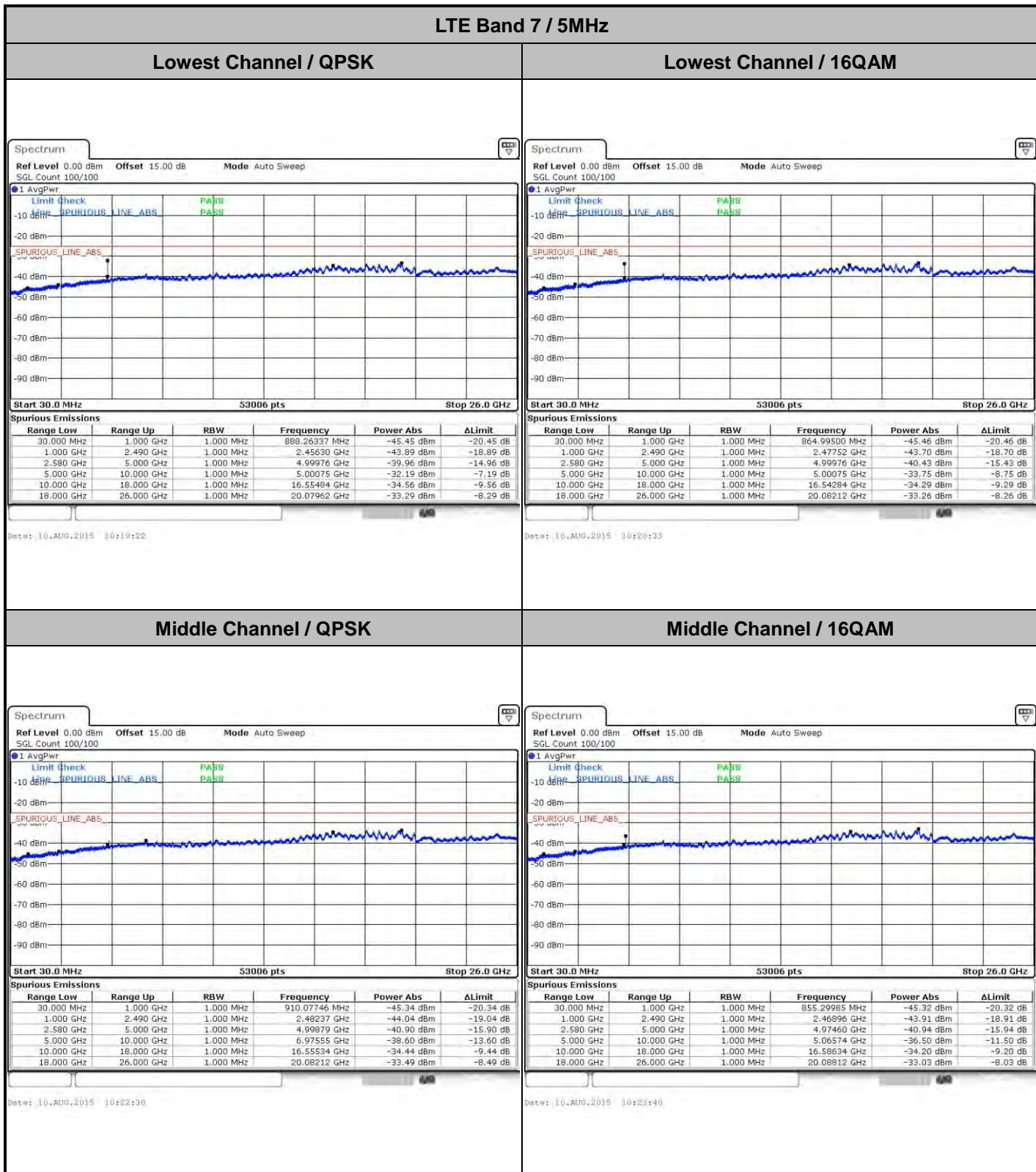
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





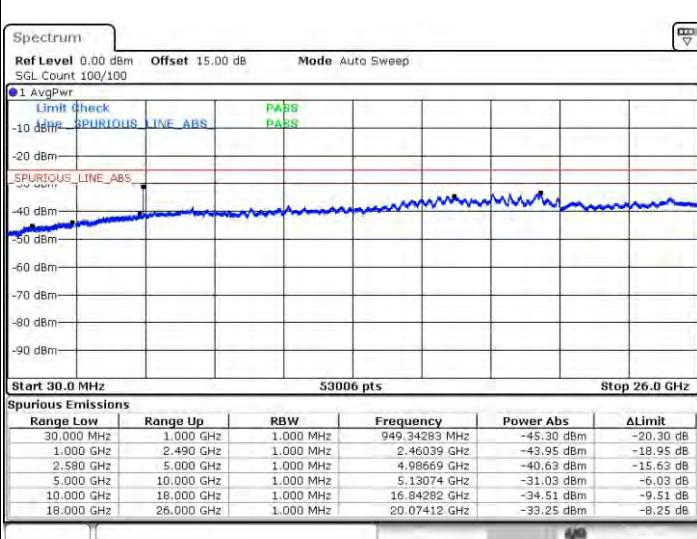
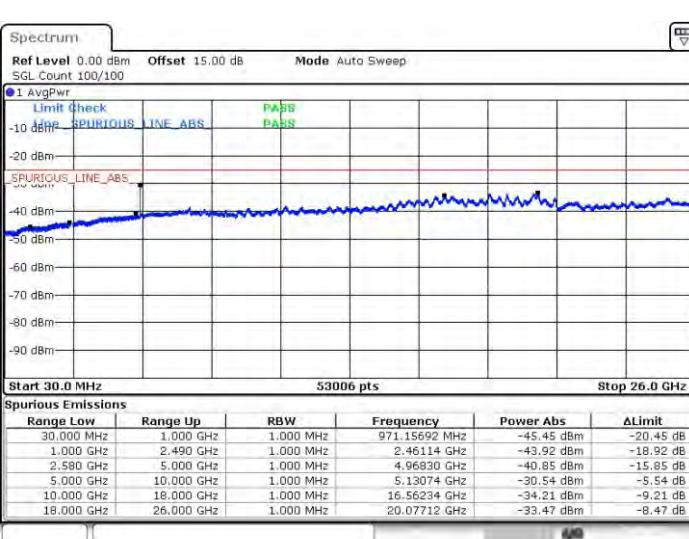




LTE Band 7 / 5MHz

Highest Channel / QPSK

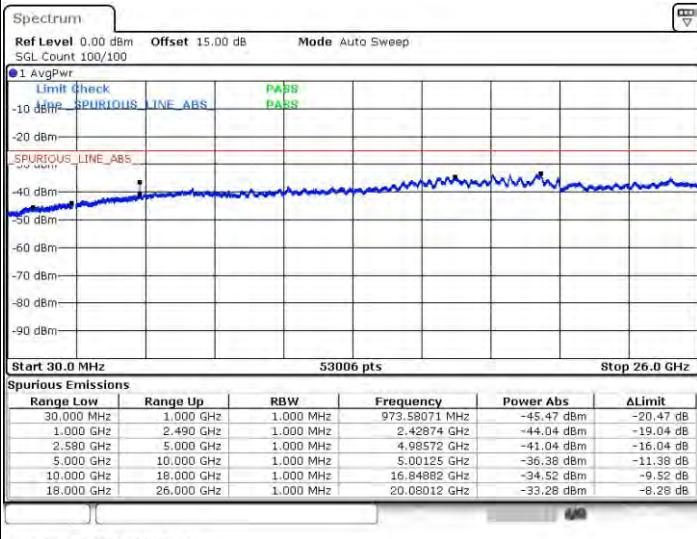
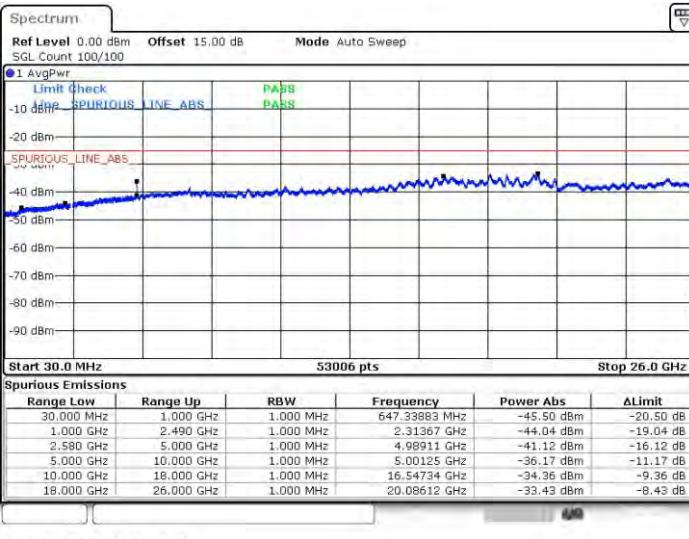
Highest Channel / 16QAM

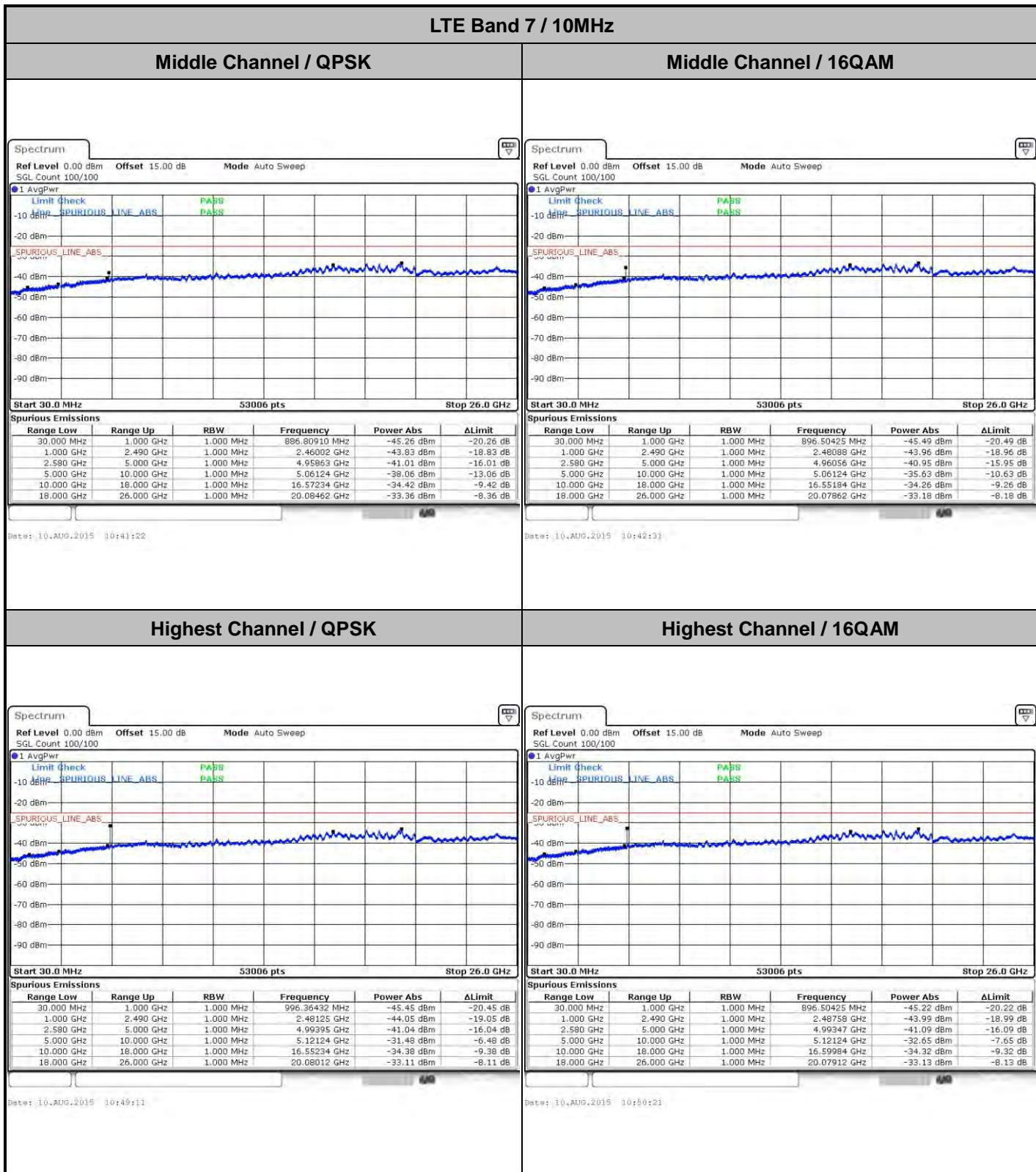


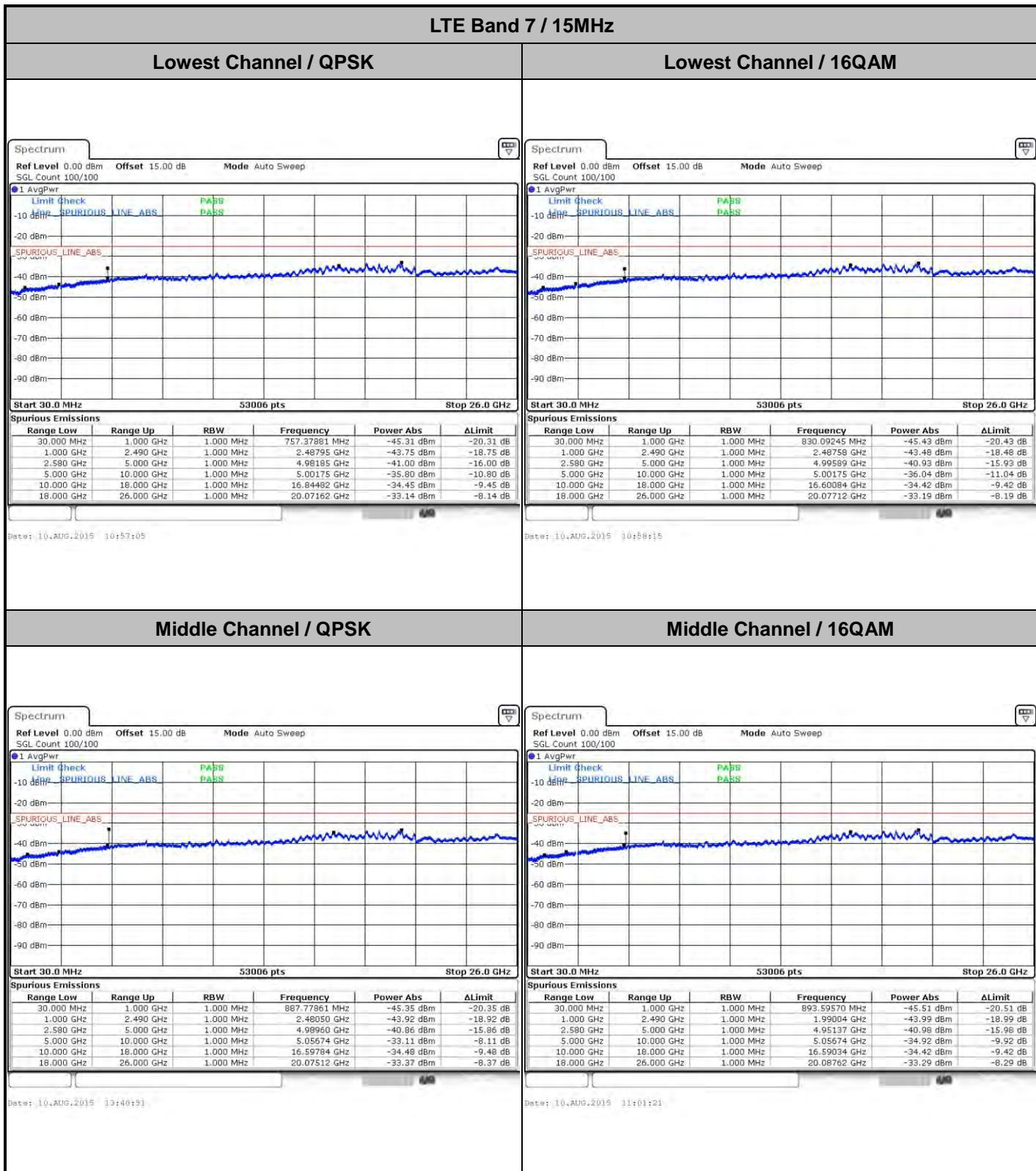
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





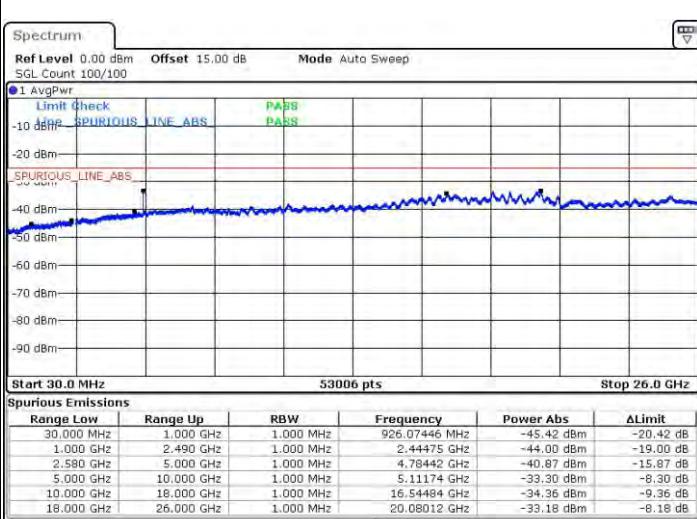
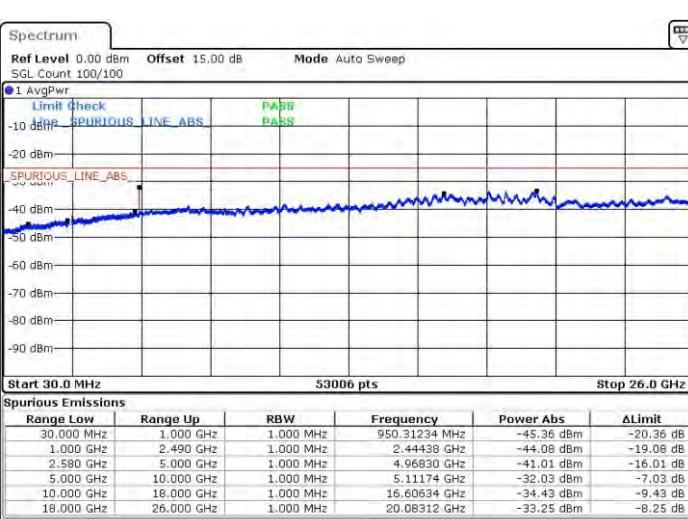




LTE Band7 / 15MHz

Highest Channel / QPSK

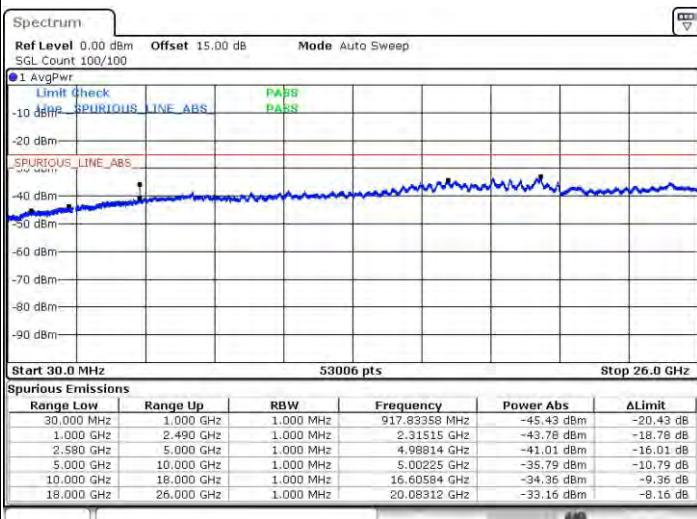
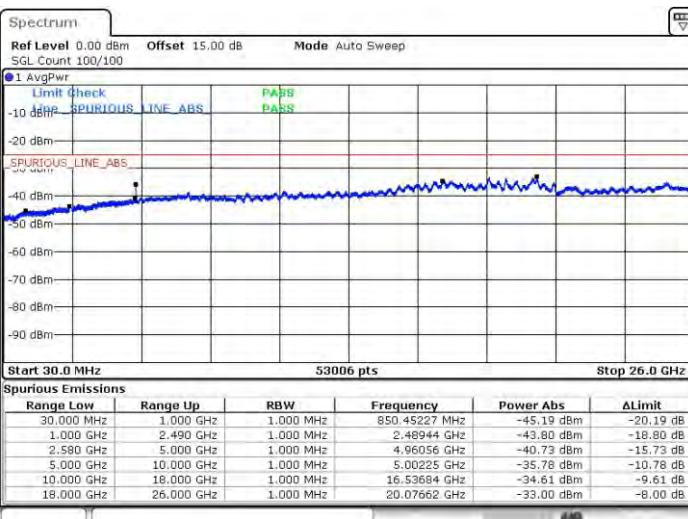
Highest Channel / 16QAM

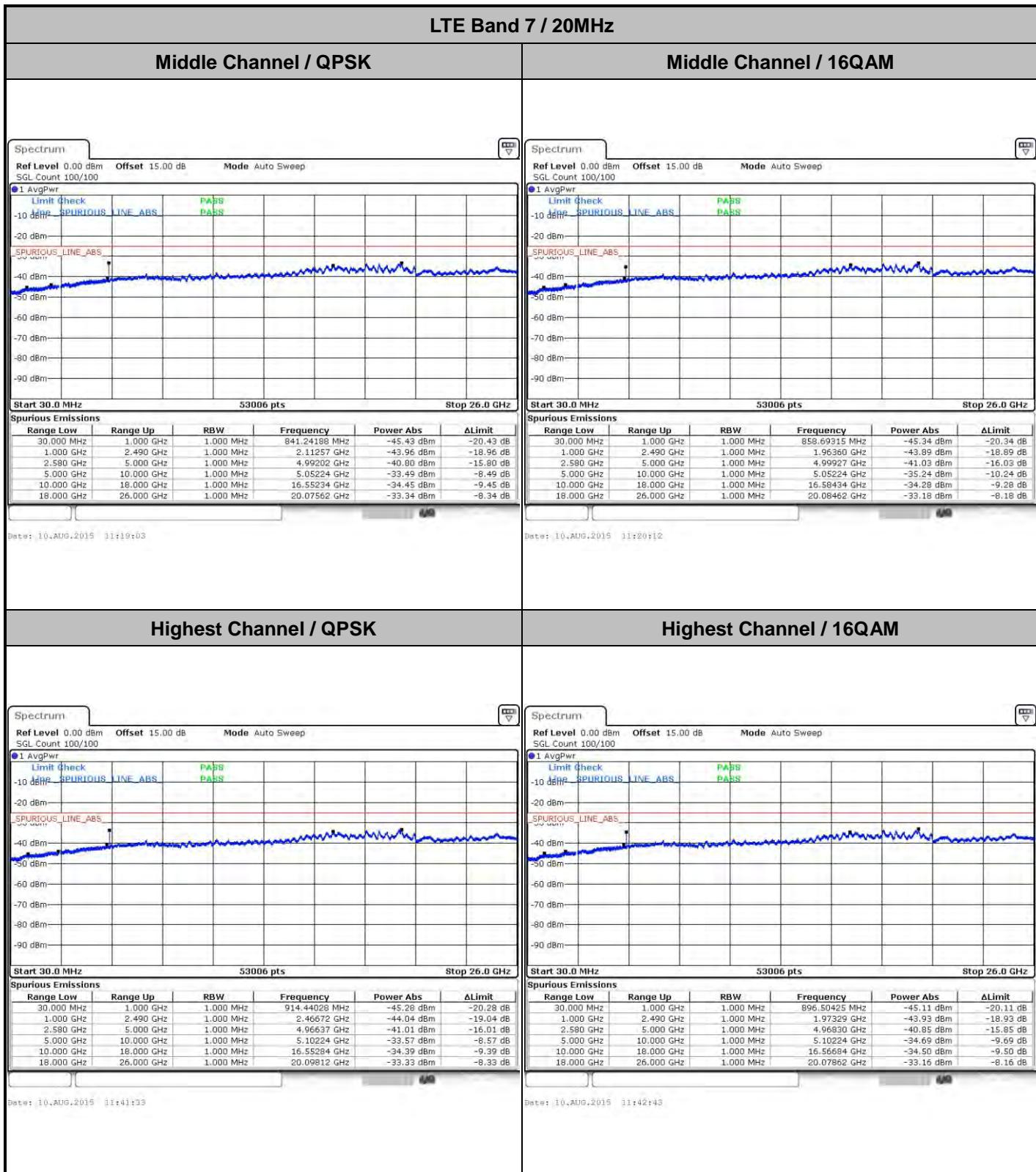


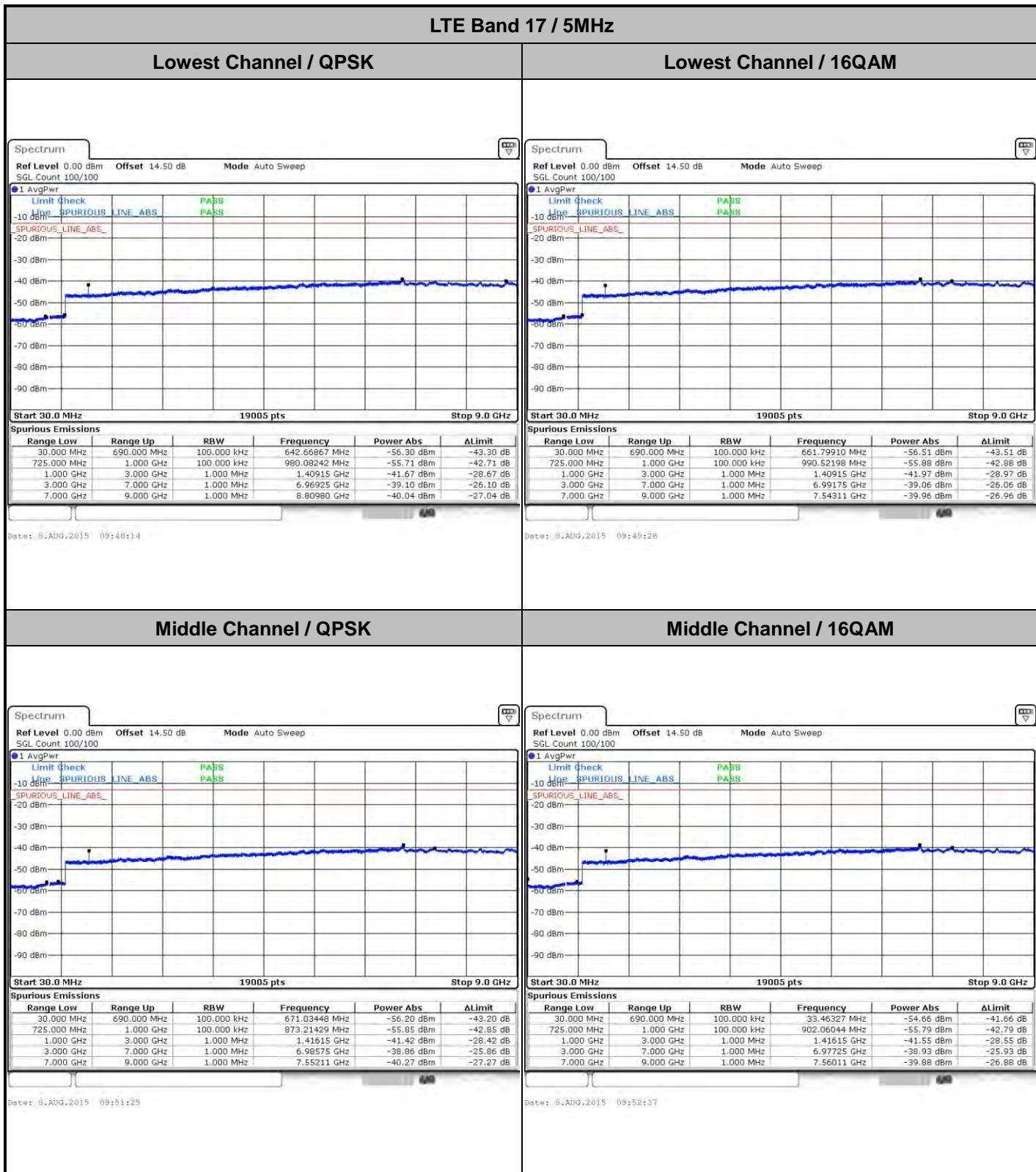
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





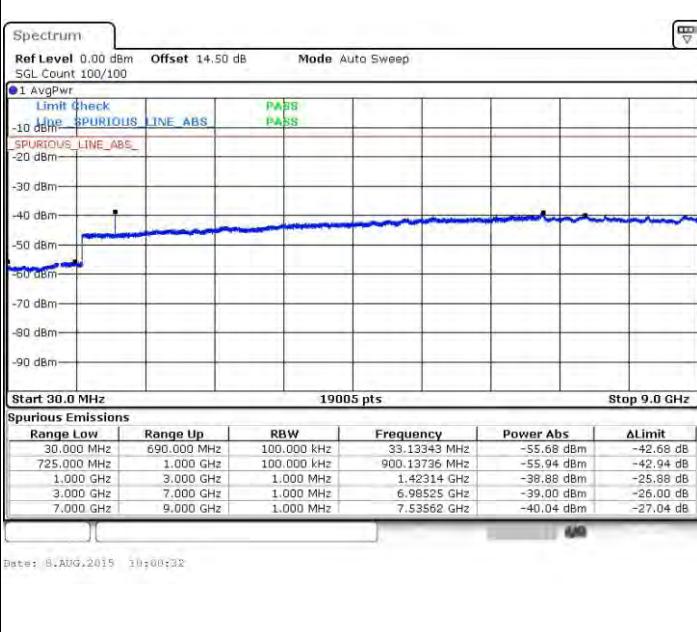
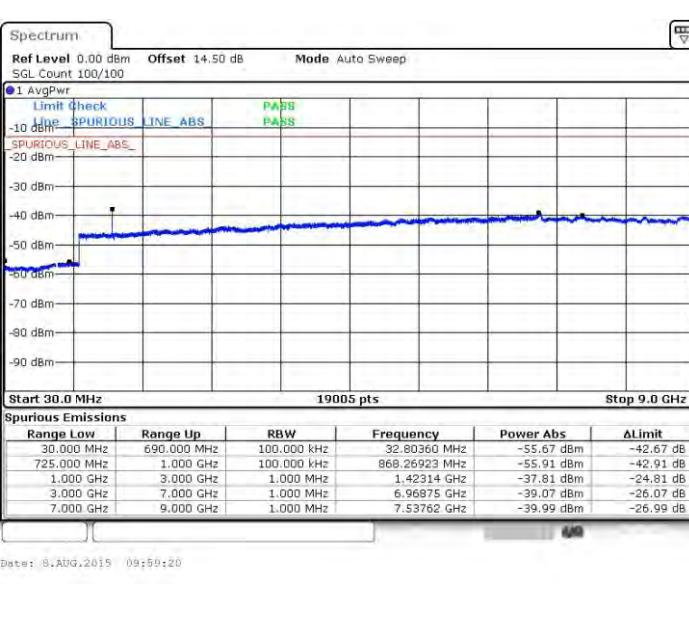




LTE Band 17 / 5MHz

Highest Channel / QPSK

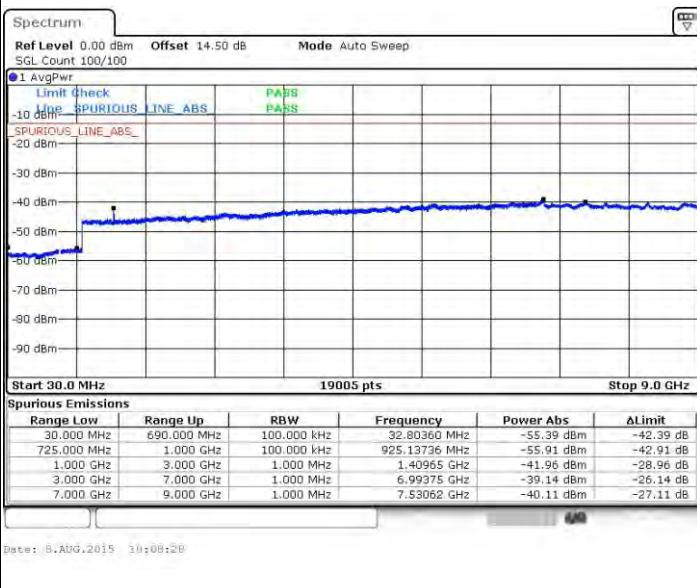
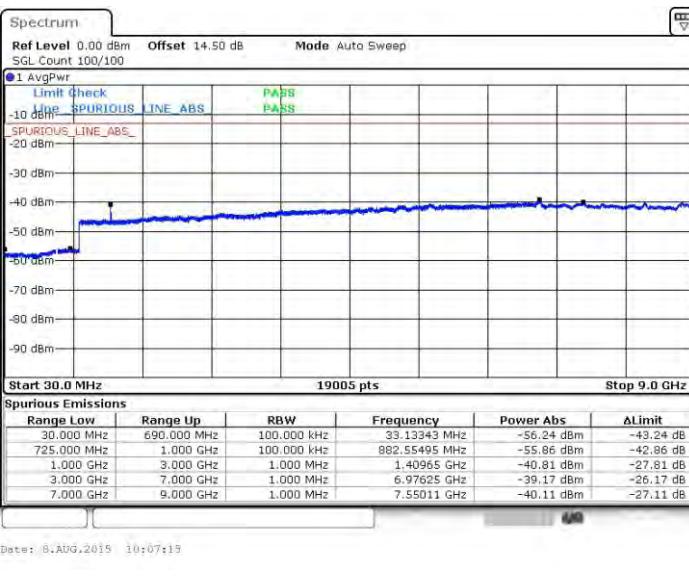
Highest Channel / 16QAM

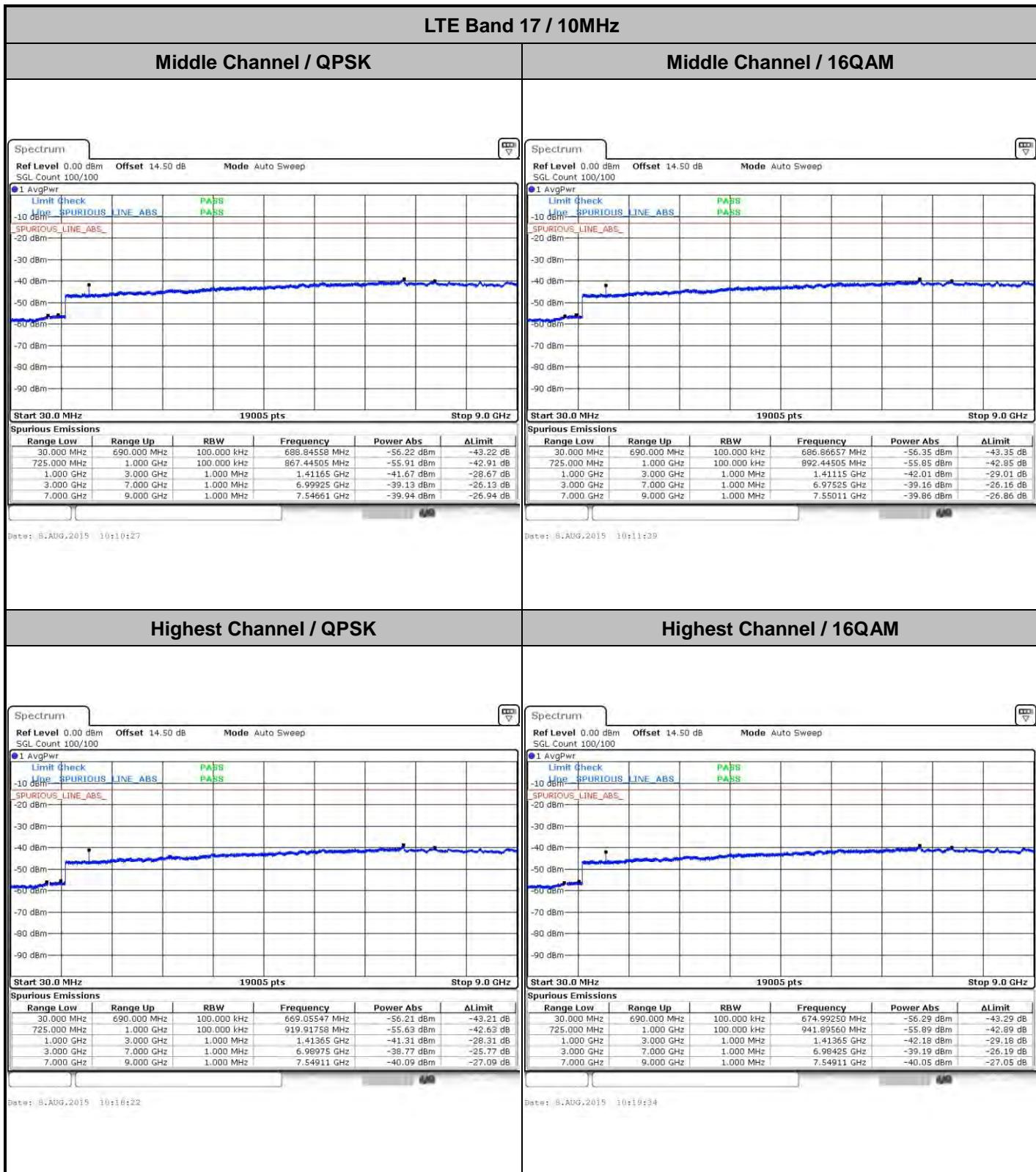


LTE Band 17 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM







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	0.0012	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.35V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0004	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0042	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

ERP/EIRP



LTE Band 4 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	26.27	0.4236	26.48	0.4446
Middle		1	2	26.62	0.4592	26.65	0.4624
Highest		3	0	26.68	0.4656	26.62	0.4592
Lowest	16QAM	1	5	25.61	0.3639	25.65	0.3673
Middle		1	2	25.78	0.3784	25.82	0.3819
Highest		1	0	25.55	0.3589	25.47	0.3524
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	7	26.41	0.4375	26.50	0.4467
Middle		1	7	26.68	0.4656	26.68	0.4656
Highest		1	14	26.31	0.4276	26.25	0.4217
Lowest	16QAM	1	14	25.84	0.3837	25.91	0.3899
Middle		1	7	25.91	0.3899	25.88	0.3873
Highest		1	14	25.62	0.3648	25.58	0.3614
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	26.40	0.4365	26.52	0.4487
Middle		1	12	26.56	0.4529	26.61	0.4581
Highest		1	24	26.44	0.4406	26.28	0.4246
Lowest	16QAM	1	12	25.72	0.3733	25.77	0.3776
Middle		1	0	25.49	0.3540	25.47	0.3524
Highest		1	24	25.53	0.3573	25.47	0.3524
Limit	EIRP < 1W			Result		PASS	



LTE Band 4/ 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	26.59	0.4560	26.58	0.4550
Middle		1	0	26.78	0.4764	26.82	0.4808
Highest		1	0	26.66	0.4634	26.58	0.4550
Lowest	16QAM	1	49	26.02	0.3999	26.02	0.3999
Middle		1	0	25.67	0.3690	25.69	0.3707
Highest		1	24	25.63	0.3656	25.55	0.3589
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	26.73	0.4710	26.70	0.4677
Middle		1	0	26.65	0.4624	26.51	0.4477
Highest		1	0	26.50	0.4467	26.52	0.4487
Lowest	16QAM	1	0	25.84	0.3837	26.05	0.4027
Middle		1	0	25.63	0.3656	25.62	0.3648
Highest		1	0	25.54	0.3581	25.52	0.3565
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	26.39	0.4355	26.53	0.4498
Middle		1	0	26.49	0.4457	26.48	0.4446
Highest		1	0	26.58	0.4550	26.56	0.4529
Lowest	16QAM	1	49	25.73	0.3741	25.70	0.3715
Middle		1	0	25.68	0.3698	25.67	0.3690
Highest		1	49	25.52	0.3565	25.48	0.3532
Limit	EIRP < 1W			Result		PASS	



LTE Band 7 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	19.84	0.0964	17.86	0.0611
Middle		1	12	20.71	0.1178	19.14	0.0820
Highest		1	0	19.94	0.0986	19.13	0.0818
Lowest	16QAM	1	12	19.91	0.0979	18.05	0.0638
Middle		1	0	19.79	0.0953	18.01	0.0632
Highest		1	0	19.57	0.0906	18.63	0.0729
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	19.92	0.0982	17.85	0.0610
Middle		1	0	20.87	0.1222	19.25	0.0841
Highest		1	24	19.68	0.0929	18.98	0.0791
Lowest	16QAM	1	0	19.79	0.0953	17.84	0.0608
Middle		1	0	20.26	0.1062	18.45	0.0700
Highest		1	0	19.17	0.0826	18.20	0.0661
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.91	0.1233	19.12	0.0817
Middle		1	0	20.87	0.1222	18.95	0.0785
Highest		1	37	20.17	0.1040	19.21	0.0834
Lowest	16QAM	1	74	19.59	0.0910	17.54	0.0568
Middle		1	0	20.03	0.1007	18.16	0.0655
Highest		1	0	19.07	0.0807	17.97	0.0627
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.72	0.1180	18.81	0.0760
Middle		1	0	20.75	0.1189	18.86	0.0769
Highest		1	0	20.13	0.1030	18.81	0.0760
Lowest	16QAM	1	99	19.55	0.0902	18.09	0.0644
Middle		1	0	19.89	0.0975	18.42	0.0695
Highest		1	49	19.04	0.0802	18.07	0.0641
Limit	EIRP < 2W			Result		PASS	



LTE Band 17 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	18.67	0.0736	6.56	0.0045
Middle		1	0	18.51	0.0710	6.56	0.0045
Highest		1	0	18.66	0.0735	6.71	0.0047
Lowest	16QAM	1	12	17.41	0.0551	5.01	0.0032
Middle		1	0	17.40	0.0550	4.94	0.0031
Highest		1	0	17.48	0.0560	5.12	0.0033
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	18.39	0.0690	6.61	0.0046
Middle		1	24	18.51	0.0710	6.54	0.0045
Highest		1	24	18.45	0.0700	6.84	0.0048
Lowest	16QAM	1	24	17.43	0.0553	5.06	0.0032
Middle		1	0	17.96	0.0625	5.49	0.0035
Highest		1	0	17.48	0.0560	4.98	0.0031
Limit	ERP < 3W			Result		PASS	



Radiated Spurious Emission



LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0									
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)
Lowest	3420.32	-48.91	-13	-35.91	-61.74	-56.10	0.81	8.00	H
	5130.48	-42.43	-13	-29.43	-60.96	-51.48	0.95	10.00	H
	6840.64	-47.70	-13	-34.70	-69.04	-59.97	1.13	13.40	H
	3420.32	-46.44	-13	-33.44	-59.78	-58.23	0.81	12.60	V
	5130.48	-46.36	-13	-33.36	-64.99	-58.11	0.95	12.70	V
	6840.64	-48.10	-13	-35.10	-69.09	-58.67	1.13	11.70	V
Middle	3463.92	-45.26	-13	-32.26	-58.09	-52.45	0.81	8.00	H
	5195.88	-50.31	-13	-37.31	-68.84	-59.36	0.95	10.00	H
	6927.84	-48.08	-13	-35.08	-69.42	-60.35	1.13	13.40	H
	3463.92	-45.84	-13	-32.84	-59.18	-57.63	0.81	12.60	V
	5195.88	-50.61	-13	-37.61	-69.24	-62.36	0.95	12.70	V
	6927.84	-48.03	-13	-35.03	-69.02	-58.60	1.13	11.70	V
Highest	3507.52	-47.75	-13	-34.75	-60.58	-54.94	0.81	8.00	H
	5261.28	-42.35	-13	-29.35	-60.88	-51.40	0.95	10.00	H
	7015.04	-48.49	-13	-35.49	-69.83	-60.76	1.13	13.40	H
	3507.52	-44.84	-13	-31.84	-58.18	-56.63	0.81	12.60	V
	5261.28	-45.28	-13	-32.28	-63.91	-57.03	0.95	12.70	V
	7015.04	-48.64	-13	-35.64	-69.63	-59.21	1.13	11.70	V

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



LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0									
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)
Lowest	3420.48	-47.98	-13	-34.98	-60.81	-55.17	0.81	8.00	H
	5130.72	-42.55	-13	-29.55	-61.08	-51.60	0.95	10.00	H
	6840.96	-47.08	-13	-34.08	-68.42	-59.35	1.13	13.40	H
	3420.48	-46.01	-13	-33.01	-59.35	-57.80	0.81	12.60	V
	5130.72	-46.78	-13	-33.78	-65.41	-58.53	0.95	12.70	V
	6840.96	-47.62	-13	-34.62	-68.61	-58.19	1.13	11.70	V
Middle	3462.48	-44.48	-13	-31.48	-57.31	-51.67	0.81	8.00	H
	5193.72	-45.73	-13	-32.73	-64.26	-54.78	0.95	10.00	H
	6924.96	-46.71	-13	-33.71	-68.05	-58.98	1.13	13.40	H
	3462.48	-45.99	-13	-32.99	-59.33	-57.78	0.81	12.60	V
	5193.72	-47.18	-13	-34.18	-65.81	-58.93	0.95	12.70	V
	6924.96	-47.75	-13	-34.75	-68.74	-58.32	1.13	11.70	V
Highest	3504.48	-46.00	-13	-33.00	-58.83	-53.19	0.81	8.00	H
	5256.72	-40.90	-13	-27.90	-59.43	-49.95	0.95	10.00	H
	7008.96	-48.63	-13	-35.63	-69.97	-60.90	1.13	13.40	H
	3504.48	-44.43	-13	-31.43	-57.77	-56.22	0.81	12.6	V
	5256.72	-42.84	-13	-29.84	-61.47	-54.59	0.95	12.7	V
	7008.96	-48.61	-13	-35.61	-69.6	-59.18	1.13	11.7	V

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



LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0									
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)
Lowest	3420.68	-48.44	-13	-35.44	-61.27	-55.63	0.81	8.00	H
	5131.02	-41.70	-13	-28.70	-60.23	-50.75	0.95	10.00	H
	6841.36	-46.95	-13	-33.95	-68.29	-59.22	1.13	13.40	H
	3420.68	-45.79	-13	-32.79	-59.13	-57.58	0.81	12.60	V
	5131.02	-46.67	-13	-33.67	-65.3	-58.42	0.95	12.70	V
	6841.36	-47.74	-13	-34.74	-68.73	-58.31	1.13	11.70	V
Middle	3460.68	-46.67	-13	-33.67	-59.50	-53.86	0.81	8.00	H
	5191.02	-44.79	-13	-31.79	-63.32	-53.84	0.95	10.00	H
	6921.36	-46.51	-13	-33.51	-67.85	-58.78	1.13	13.40	H
	3460.68	-47.03	-13	-34.03	-60.37	-58.82	0.81	12.60	V
	5191.02	-47.12	-13	-34.12	-65.75	-58.87	0.95	12.70	V
	6921.36	-47.68	-13	-34.68	-68.67	-58.25	1.13	11.70	V
Highest	3500.68	-46.83	-13	-33.83	-59.66	-54.02	0.81	8.00	H
	5252	-42.16	-13	-29.16	-60.69	-51.21	0.95	10.00	H
	7001.36	-47.46	-13	-34.46	-68.80	-59.73	1.13	13.40	H
	3500.68	-44.66	-13	-31.66	-58	-56.45	0.81	12.60	V
	5252	-43.94	-13	-30.94	-62.57	-55.69	0.95	12.70	V
	7001.36	-48.65	-13	-35.65	-69.64	-59.22	1.13	11.70	V

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



LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0									
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)
Lowest	3421.18	-45.44	-13	-32.44	-58.27	-52.63	0.81	8.00	H
	5131.77	-38.36	-13	-25.36	-56.89	-47.41	0.95	10.00	H
	6842.36	-47.22	-13	-34.22	-68.56	-59.49	1.13	13.40	H
	3421.18	-43.39	-13	-30.39	-56.73	-55.18	0.81	12.60	V
	5131.77	-39.25	-13	-26.25	-57.88	-51.00	0.95	12.70	V
	6842.36	-47.75	-13	-34.75	-68.74	-58.32	1.13	11.70	V
Middle	3456.18	-45.09	-13	-32.09	-57.92	-52.28	0.81	8.00	H
	5184.27	-44.25	-13	-31.25	-62.78	-53.30	0.95	10.00	H
	6912.36	-47.56	-13	-34.56	-68.90	-59.83	1.13	13.40	H
	3456.18	-41.86	-13	-28.86	-55.2	-53.65	0.81	12.60	V
	5184.27	-42.89	-13	-29.89	-61.52	-54.64	0.95	12.70	V
	6912.36	-48.03	-13	-35.03	-69.02	-58.60	1.13	11.70	V
Highest	3491.18	-43.16	-13	-30.16	-55.99	-50.35	0.81	8.00	H
	5236.77	-43.86	-13	-30.86	-62.39	-52.91	0.95	10.00	H
	6982.36	-48.10	-13	-35.10	-69.44	-60.37	1.13	13.40	H
	3491.18	-42.00	-13	-29.00	-55.34	-53.79	0.81	12.60	V
	5236.77	-39.59	-13	-26.59	-58.22	-51.34	0.95	12.70	V
	6982.36	-47.98	-13	-34.98	-68.97	-58.55	1.13	11.70	V

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



LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0									
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)
Lowest	3421.68	-47.09	-13	-34.09	-59.92	-54.28	0.81	8.00	H
	5132.52	-41.66	-13	-28.66	-60.19	-50.71	0.95	10.00	H
	6843.36	-45.91	-13	-32.91	-67.25	-58.18	1.13	13.40	H
	3421.68	-44.87	-13	-31.87	-58.21	-56.66	0.81	12.60	V
	5132.52	-45.30	-13	-32.30	-63.93	-57.05	0.95	12.70	V
	6843.36	-47.49	-13	-34.49	-68.48	-58.06	1.13	11.70	V
Middle	3451.68	-48.58	-13	-35.58	-61.41	-55.77	0.81	8.00	H
	5177.52	-43.60	-13	-30.60	-62.13	-52.65	0.95	10.00	H
	6903.36	-46.82	-13	-33.82	-68.16	-59.09	1.13	13.40	H
	3451.68	-48.00	-13	-35.00	-61.34	-59.79	0.81	12.60	V
	5177.52	-43.85	-13	-30.85	-62.48	-55.60	0.95	12.70	V
	6903.36	-47.76	-13	-34.76	-68.75	-58.33	1.13	11.70	V
Highest	3481.68	-44.10	-13	-31.10	-56.93	-51.29	0.81	8.00	H
	5222.52	-43.13	-13	-30.13	-61.66	-52.18	0.95	10.00	H
	6963.36	-46.66	-13	-33.66	-68.00	-58.93	1.13	13.40	H
	3481.68	-44.40	-13	-31.40	-57.74	-56.19	0.81	12.60	V
	5222.52	-45.98	-13	-32.98	-64.61	-57.73	0.95	12.70	V
	6963.36	-47.38	-13	-34.38	-68.37	-57.95	1.13	11.70	V

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



LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0									
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)
Lowest	3422.18	-48.84	-13	-35.84	-61.67	-56.03	0.81	8.00	H
	5133.27	-41.60	-13	-28.60	-60.13	-50.65	0.95	10.00	H
	6844.36	-46.71	-13	-33.71	-68.05	-58.98	1.13	13.40	H
	3422.18	-45.69	-13	-32.69	-59.03	-57.48	0.81	12.60	V
	5133.27	-43.80	-13	-30.80	-62.43	-55.55	0.95	12.70	V
	6844.36	-47.21	-13	-34.21	-68.2	-57.78	1.13	11.70	V
Middle	3447.18	-50.14	-13	-37.14	-62.97	-57.33	0.81	8.00	H
	5170.77	-40.16	-13	-27.16	-58.69	-49.21	0.95	10.00	H
	6894.36	-47.11	-13	-34.11	-68.45	-59.38	1.13	13.40	H
	3447.18	-47.50	-13	-34.50	-60.84	-59.29	0.81	12.60	V
	5170.77	-43.39	-13	-30.39	-62.02	-55.14	0.95	12.70	V
	6894.36	-47.37	-13	-34.37	-68.36	-57.94	1.13	11.70	V
Highest	3472.18	-45.49	-13	-32.49	-58.32	-52.68	0.81	8.00	H
	5208.27	-43.50	-13	-30.50	-62.03	-52.55	0.95	10.00	H
	6944.36	-47.48	-13	-34.48	-68.82	-59.75	1.13	13.40	H
	3472.18	-46.58	-13	-33.58	-59.92	-58.37	0.81	12.60	V
	5208.27	-46.84	-13	-33.84	-65.47	-58.59	0.95	12.70	V
	6944.36	-47.89	-13	-34.89	-68.88	-58.46	1.13	11.70	V

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



LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0									
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)
Lowest	5000.50	-43.45	-25	-18.45	-58.33	-55.20	0.95	12.70	H
	7500.75	-44.00	-25	-19.00	-65.09	-54.24	1.46	11.70	H
	10001.00	-44.04	-25	-19.04	-69.22	-54.83	1.31	12.10	H
	12501.25	-37.04	-25	-12.04	-65.30	-49.09	1.55	13.60	H
	5000.5	-39.96	-25	-14.96	-56.48	-51.71	0.95	12.70	V
	7500.75	-42.59	-25	-17.59	-63.34	-52.83	1.46	11.70	V
	10001	-46.70	-25	-21.70	-69.56	-57.49	1.31	12.10	V
	12501.25	-37.10	-25	-12.10	-64.93	-49.15	1.55	13.60	V
Middle	5065.50	-47.41	-25	-22.41	-62.29	-59.16	0.95	12.70	H
	7598.25	-45.67	-25	-20.67	-66.76	-55.91	1.46	11.70	H
	10131.00	-44.22	-25	-19.22	-69.40	-55.01	1.31	12.10	H
	12663.75	-35.15	-25	-10.15	-63.41	-47.20	1.55	13.60	H
	5065.5	-46.91	-25	-21.91	-62.04	-58.66	0.95	12.70	V
	7598.25	-44.54	-25	-19.54	-65.29	-54.78	1.46	11.70	V
	10131	-46.81	-25	-21.81	-69.67	-57.60	1.31	12.10	V
	12663.75	-36.69	-25	-11.69	-64.52	-48.74	1.55	13.60	V
Highest	5130.50	-47.40	-25	-22.40	-62.28	-59.15	0.95	12.70	H
	7695.75	-44.58	-25	-19.58	-65.67	-54.82	1.46	11.70	H
	10261.00	-43.75	-25	-18.75	-68.93	-54.54	1.31	12.10	H
	12826.25	-34.39	-25	-9.39	-62.65	-46.44	1.55	13.60	H
	5130.5	-45.51	-25	-20.51	-60.64	-57.26	0.95	12.70	V
	7695.75	-43.83	-25	-18.83	-64.58	-54.07	1.46	11.70	V
	10261	-46.15	-25	-21.15	-69.01	-56.94	1.31	12.10	V
	12778.80	-35.38	-25	-10.38	-63.21	-47.43	1.55	13.60	V

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



LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0									
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)
Lowest	5001.00	-43.21	-25	-18.21	-58.09	-54.96	0.95	12.70	H
	7501.50	-44.00	-25	-19.00	-65.09	-54.24	1.46	11.70	H
	10002.00	-44.34	-25	-19.34	-69.52	-55.13	1.31	12.10	H
	12502.50	-37.05	-25	-12.05	-65.31	-49.10	1.55	13.60	H
	5001	-40.74	-25	-15.74	-57.09	-52.49	0.95	12.70	V
	7501.5	-41.99	-25	-16.99	-62.74	-52.23	1.46	11.70	V
	10002	-46.37	-25	-21.37	-69.23	-57.16	1.31	12.10	V
	12502.50	-38.69	-25	-13.69	-66.52	-50.74	1.55	13.60	V
Middle	5061.00	-49.84	-25	-24.84	-64.72	-61.59	0.95	12.70	H
	7591.50	-46.33	-25	-21.33	-67.42	-56.57	1.46	11.70	H
	10122.00	-44.21	-25	-19.21	-69.39	-55.00	1.31	12.10	H
	12652.50	-36.40	-25	-11.40	-64.66	-48.45	1.55	13.60	H
	5061	-48.34	-25	-23.34	-63.47	-60.09	0.95	12.70	V
	7591.5	-44.21	-25	-19.21	-64.96	-54.45	1.46	11.70	V
	10122	-45.63	-25	-20.63	-68.49	-56.42	1.31	12.10	V
	12652.50	-39.00	-25	-14.00	-66.83	-51.05	1.55	13.60	V
Highest	5121.00	-44.62	-25	-19.62	-59.50	-56.37	0.95	12.70	H
	7681.50	-42.12	-25	-17.12	-63.21	-52.36	1.46	11.70	H
	10242.00	-43.24	-25	-18.24	-68.42	-54.03	1.31	12.10	H
	12802.50	-34.83	-25	-9.83	-63.09	-46.88	1.55	13.60	H
	5121	-43.27	-25	-18.27	-58.4	-55.02	0.95	12.70	V
	7681.5	-41.91	-25	-16.91	-62.66	-52.15	1.46	11.70	V
	10242	-45.71	-25	-20.71	-68.57	-56.50	1.31	12.10	V
	12802.50	-38.32	-25	-13.32	-66.15	-50.37	1.55	13.60	V

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



LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0									
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)
Lowest	5001.50	-43.46	-25	-18.46	-58.34	-55.21	0.95	12.70	H
	7502.25	-43.67	-25	-18.67	-64.76	-53.91	1.46	11.70	H
	10003.00	-44.31	-25	-19.31	-69.49	-55.10	1.31	12.10	H
	12503.75	-35.76	-25	-10.76	-64.02	-47.81	1.55	13.60	H
	5001.5	-40.56	-25	-15.56	-56.95	-52.31	0.95	12.70	V
	7502.25	-42.57	-25	-17.57	-63.32	-52.81	1.46	11.70	V
	10003	-46.71	-25	-21.71	-69.57	-57.50	1.31	12.10	V
	12503.75	-38.15	-25	-13.15	-65.98	-50.20	1.55	13.60	V
Middle	5056.50	-48.08	-25	-23.08	-62.96	-59.83	0.95	12.70	H
	7584.75	-46.52	-25	-21.52	-67.61	-56.76	1.46	11.70	H
	10113.00	-44.62	-25	-19.62	-69.80	-55.41	1.31	12.10	H
	12641.25	-35.43	-25	-10.43	-63.69	-47.48	1.55	13.60	H
	5056.5	-47.77	-25	-22.77	-62.9	-59.52	0.95	12.70	V
	7584.75	-44.07	-25	-19.07	-64.82	-54.31	1.46	11.70	V
	10113	-46.41	-25	-21.41	-69.27	-57.20	1.31	12.10	V
	12641.25	-38.01	-25	-13.01	-65.84	-50.06	1.55	13.60	V
Highest	5111.50	-43.33	-25	-18.33	-58.21	-55.08	0.95	12.70	H
	7667.25	-40.19	-25	-15.19	-61.28	-50.43	1.46	11.70	H
	10223.00	-42.81	-25	-17.81	-67.99	-53.60	1.31	12.10	H
	12778.75	-38.26	-25	-13.26	-66.52	-50.31	1.55	13.60	H
	5111.5	-40.23	-25	-15.23	-56.69	-51.98	0.95	12.70	V
	7667.25	-42.15	-25	-17.15	-62.9	-52.39	1.46	11.70	V
	10223	-46.43	-25	-21.43	-69.29	-57.22	1.31	12.10	V
	12778.75	-39.97	-25	-14.97	-67.80	-52.02	1.55	13.60	V

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



LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0									
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)
Lowest	5002.18	-43.21	-25	-18.21	-58.09	-54.96	0.95	12.70	H
	7503.27	-43.71	-25	-18.71	-64.80	-53.95	1.46	11.70	H
	10004.36	-43.45	-25	-18.45	-68.63	-54.24	1.31	12.10	H
	12505.00	-32.31	-25	-7.31	-60.57	-44.36	1.55	13.60	H
	5002.18	-41.36	-25	-16.36	-57.46	-53.11	0.95	12.70	V
	7503.27	-41.46	-25	-16.46	-62.21	-51.70	1.46	11.70	V
	10004.36	-44.94	-25	-19.94	-67.8	-55.73	1.31	12.10	V
	12505.00	-35.86	-25	-10.86	-63.69	-47.91	1.55	13.60	V
Middle	5052.00	-45.80	-25	-20.80	-60.68	-57.55	0.95	12.70	H
	7578.00	-45.33	-25	-20.33	-66.42	-55.57	1.46	11.70	H
	10104.00	-43.80	-25	-18.80	-68.98	-54.59	1.31	12.10	H
	12630.00	-35.81	-25	-10.81	-64.07	-47.86	1.55	13.60	H
	5052	-47.28	-25	-22.28	-62.41	-59.03	0.95	12.70	V
	7578	-44.06	-25	-19.06	-64.81	-54.30	1.46	11.70	V
	10104	-46.91	-25	-21.91	-69.77	-57.70	1.31	12.10	V
	12630.00	-39.03	-25	-14.03	-66.86	-51.08	1.55	13.60	V
Highest	5102.18	-39.45	-25	-14.45	-54.93	-51.20	0.95	12.70	H
	7653.27	-40.94	-25	-15.94	-62.03	-51.18	1.46	11.70	H
	10204.36	-43.28	-25	-18.28	-68.46	-54.07	1.31	12.10	H
	5102.18	-43.58	-25	-18.58	-58.71	-55.33	0.95	12.70	V
	7653.27	-41.84	-25	-16.84	-62.59	-52.08	1.46	11.70	V
	10204.36	-46.41	-25	-21.41	-69.27	-57.20	1.31	12.10	V

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



LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1408.68	-48.46	-13	-35.46	-52.18	-52.28	0.53	6.50	H
	2113.02	-58.22	-13	-45.22	-63.64	-61.09	0.68	5.70	H
	2817.36	-52.34	-13	-39.34	-62.36	-57.38	0.81	8.00	H
	3521.7	-45.02	-13	-32.02	-57.28	-51.23	0.84	9.20	H
	4226.04	-52.30	-13	-39.30	-67.82	-59.20	0.95	10.00	H
	4930.38	-51.22	-13	-38.22	-68.46	-59.80	1.07	11.80	H
	1408.68	-42.71	-13	-29.71	-48.40	-46.53	0.53	6.50	V
	2113.02	-56.20	-13	-43.20	-60.52	-59.07	0.68	5.70	V
	2817.36	-52.61	-13	-39.61	-61.62	-57.65	0.81	8.00	V
	3521.7	-44.02	-13	-31.02	-57.04	-50.23	0.84	9.20	V
	4226.04	-52.28	-13	-39.28	-67.84	-59.18	0.95	10.00	V
	4930.38	-51.52	-13	-38.52	-68.58	-60.10	1.07	11.80	V
Middle	1415.68	-44.42	-13	-31.42	-48.58	-48.24	0.53	6.50	H
	2123.52	-56.94	-13	-43.94	-62.36	-59.81	0.68	5.70	H
	2831.36	-50.53	-13	-37.53	-60.55	-55.57	0.81	8.00	H
	3539.2	-43.85	-13	-30.85	-56.76	-50.06	0.84	9.20	H
	4247.04	-52.68	-13	-39.68	-68.20	-59.58	0.95	10.00	H
	4954.88	-51.78	-13	-38.78	-69.02	-60.36	1.07	11.80	H
	1415.68	-38.40	-13	-25.40	-44.50	-42.22	0.53	6.50	V
	2123.52	-53.26	-13	-40.26	-57.58	-56.13	0.68	5.70	V
	2831.36	-50.61	-13	-37.61	-59.62	-55.65	0.81	8.00	V
	3539.2	-44.79	-13	-31.79	-57.57	-51.00	0.84	9.20	V
	4247.04	-52.70	-13	-39.70	-68.26	-59.60	0.95	10.00	V
	4954.88	-50.79	-13	-37.79	-67.85	-59.37	1.07	11.80	V
Highest	1422.68	-43.96	-13	-30.96	-48.08	-47.78	0.53	6.50	H
	2134.02	-57.66	-13	-44.66	-63.08	-60.53	0.68	5.70	H
	2845.36	-48.82	-13	-35.82	-58.84	-53.86	0.81	8.00	H
	3556.7	-39.56	-13	-26.56	-53.56	-45.77	0.84	9.20	H
	4268.04	-52.40	-13	-39.40	-67.92	-59.30	0.95	10.00	H
	4979.38	-51.07	-13	-38.07	-68.31	-59.65	1.07	11.80	H
	1422.68	-36.95	-13	-23.95	-43.34	-40.77	0.53	6.50	V
	2134.02	-53.84	-13	-40.84	-58.16	-56.71	0.68	5.70	V
	2845.36	-48.10	-13	-35.10	-57.86	-53.14	0.81	8.00	V
	3556.7	-39.34	-13	-26.34	-53.72	-45.55	0.84	9.20	V
	4268.04	-52.55	-13	-39.55	-68.11	-59.45	0.95	10.00	V
	4979.38	-51.26	-13	-38.26	-68.32	-59.84	1.07	11.80	V

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



LTE Band 17 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1409.18	-48.50	-13	-35.50	-52.21	-52.32	0.53	6.50	H
	2113.77	-57.27	-13	-44.27	-62.69	-60.14	0.68	5.70	H
	2818.36	-51.90	-13	-38.90	-61.92	-56.94	0.81	8.00	H
	3522.95	-43.63	-13	-30.63	-56.61	-49.84	0.84	9.20	H
	4227.54	-52.62	-13	-39.62	-68.14	-59.52	0.95	10.00	H
	4932.13	-51.24	-13	-38.24	-68.48	-59.82	1.07	11.80	H
	1409.18	-42.09	-13	-29.09	-47.99	-45.91	0.53	6.50	V
	2113.77	-55.66	-13	-42.66	-59.98	-58.53	0.68	5.70	V
	2818.36	-52.51	-13	-39.51	-61.52	-57.55	0.81	8.00	V
	3522.95	-42.95	-13	-29.95	-56.53	-49.16	0.84	9.20	V
	4227.54	-51.98	-13	-38.98	-67.54	-58.88	0.95	10.00	V
	4932.13	-51.48	-13	-38.48	-68.54	-60.06	1.07	11.80	V
Middle	1411.18	-47.23	-13	-34.23	-51.22	-51.05	0.53	6.50	H
	2116.77	-57.26	-13	-44.26	-62.68	-60.13	0.68	5.70	H
	2822.36	-51.00	-13	-38.00	-61.02	-56.04	0.81	8.00	H
	3527.95	-46.04	-13	-33.04	-58.30	-52.25	0.84	9.20	H
	4233.54	-52.12	-13	-39.12	-67.64	-59.02	0.95	10.00	H
	4939.13	-51.16	-13	-38.16	-68.40	-59.74	1.07	11.80	H
	1411.18	-41.10	-13	-28.10	-47.00	-44.92	0.53	6.50	V
	2116.77	-55.37	-13	-42.37	-59.69	-58.24	0.68	5.70	V
	2822.36	-52.04	-13	-39.04	-61.05	-57.08	0.81	8.00	V
	3527.95	-45.90	-13	-32.90	-58.44	-52.11	0.84	9.20	V
	4233.54	-52.65	-13	-39.65	-68.21	-59.55	0.95	10.00	V
	4939.13	-51.30	-13	-38.30	-68.36	-59.88	1.07	11.80	V
Highest	1413.18	-44.99	-13	-31.99	-49.23	-48.81	0.53	6.50	H
	2119.77	-56.54	-13	-43.54	-61.96	-59.41	0.68	5.70	H
	2826.36	-50.83	-13	-37.83	-60.85	-55.87	0.81	8.00	H
	3532.95	-44.37	-13	-31.37	-57.01	-50.58	0.84	9.20	H
	4239.54	-51.75	-13	-38.75	-67.27	-58.65	0.95	10.00	H
	4946.13	-51.58	-13	-38.58	-68.82	-60.16	1.07	11.80	H
	1413.18	-40.04	-13	-27.04	-46.00	-43.86	0.53	6.50	V
	2119.77	-53.15	-13	-40.15	-57.47	-56.02	0.68	5.70	V
	2826.36	-52.15	-13	-39.15	-61.16	-57.19	0.81	8.00	V
	3532.95	-45.19	-13	-32.19	-57.87	-51.40	0.84	9.20	V
	4239.54	-52.48	-13	-39.48	-68.04	-59.38	0.95	10.00	V
	4946.13	-51.97	-13	-38.97	-69.03	-60.55	1.07	11.80	V

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