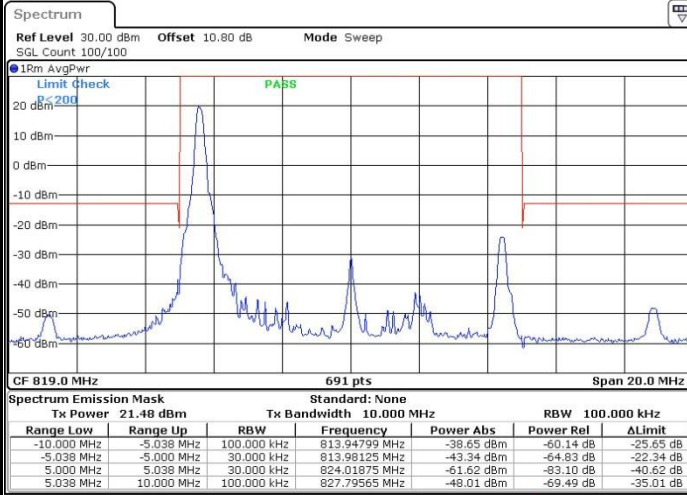




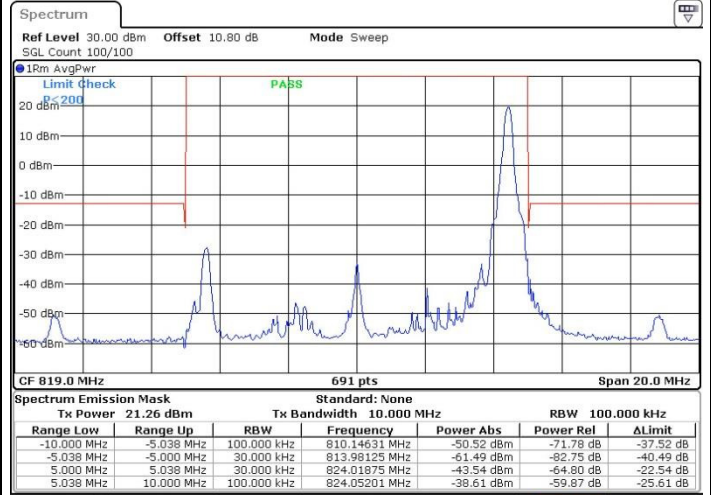
LTE Band 26 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



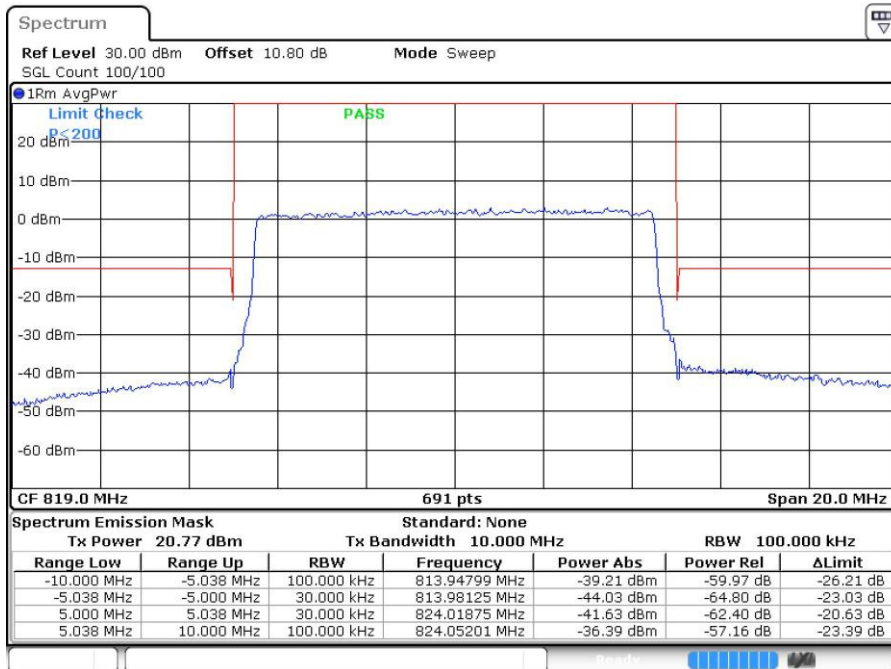
Date: 27 APR 2017 17:56:40

Highest Band Edge / 1 RB



Date: 27 APR 2017 17:57:50

Band Edge / Full RB

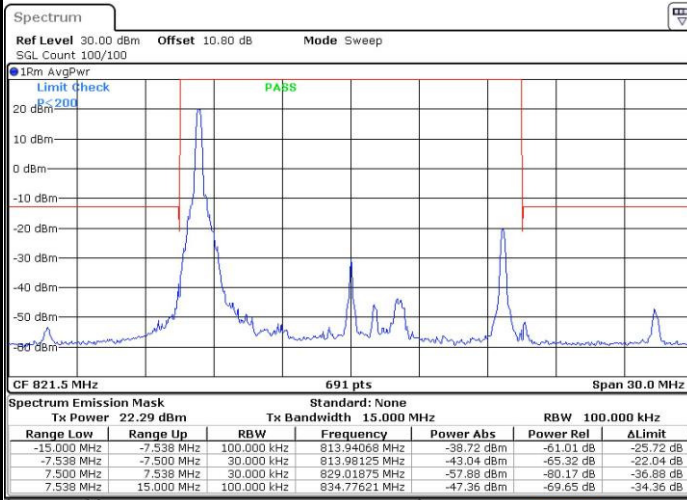


Date: 27 APR 2017 17:58:59



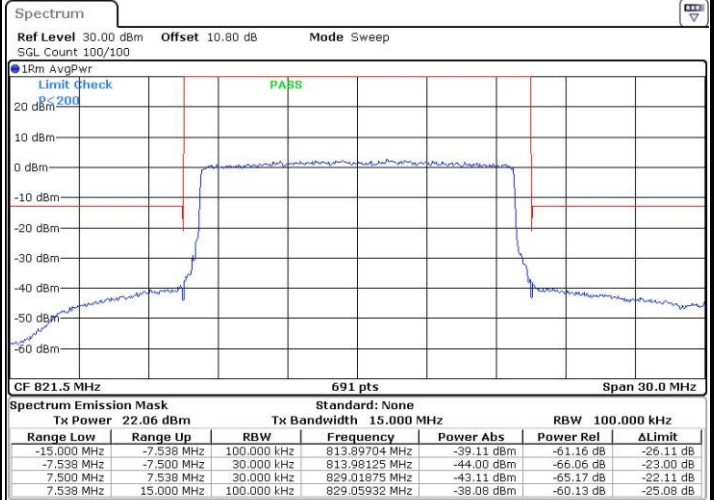
LTE Band 26 / 15MHz QPSK

Lowest Band Edge / 1 RB



Date: 6 APR 2017 23:57:13

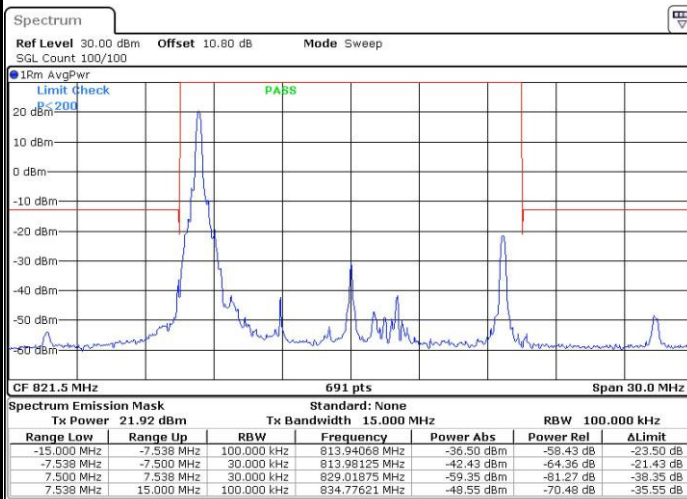
Lowest Band Edge / Full RB



Date: 7 APR 2017 00:01:51

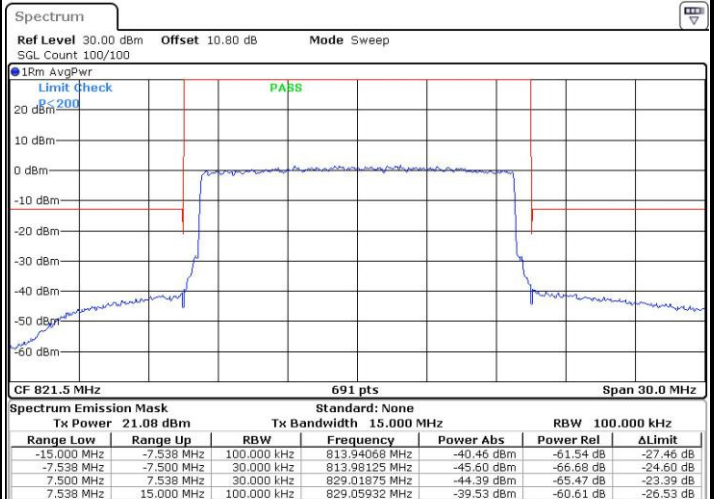
LTE Band 26 / 15MHz 16QAM

Lowest Band Edge / 1 RB



Date: 6 APR 2017 23:58:22

Lowest Band Edge / Full RB

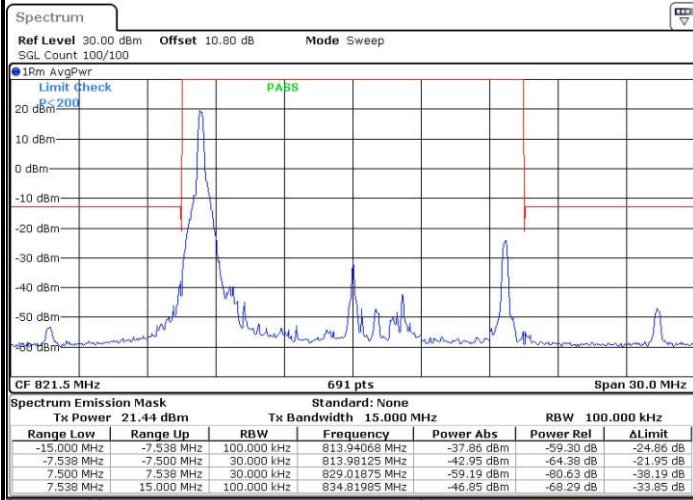


Date: 7 APR 2017 00:03:00



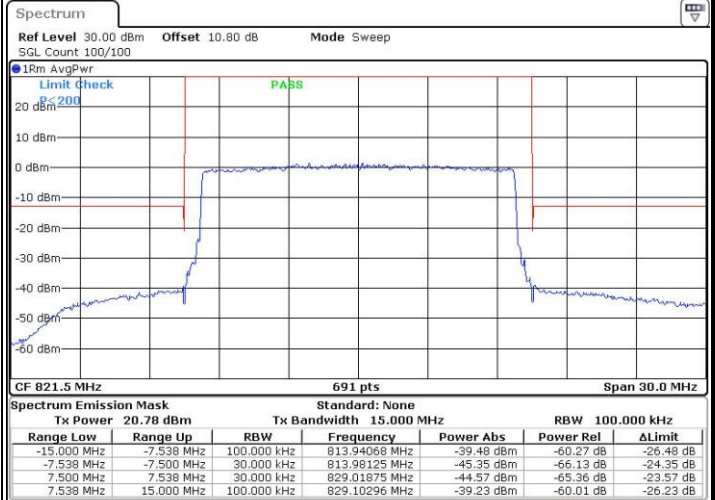
LTE Band 26 / 15MHz 64QAM

Lowest Band Edge / 1 RB



Date: 27.APR.2017 18:00:09

Lowest Band Edge / Full RB



Date: 27.APR.2017 18:02:27

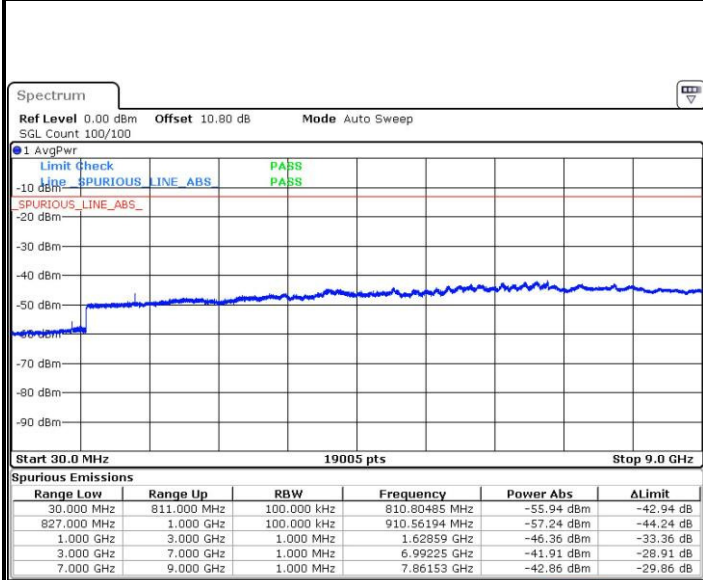


Conducted Spurious Emission



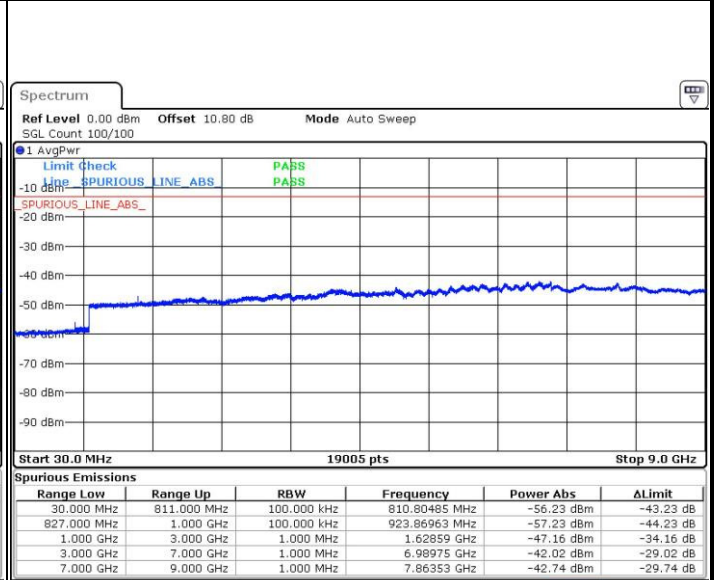
LTE Band 26 / 1.4MHz

Lowest Channel / QPSK



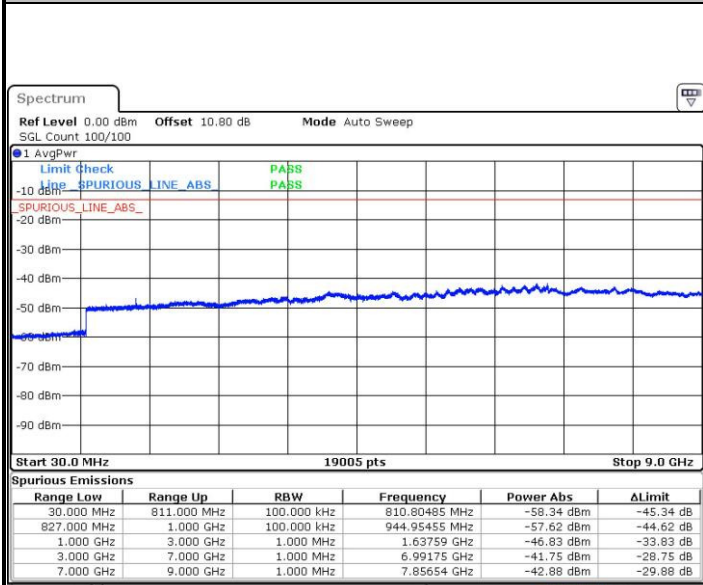
Date: 7.APR.2017 00:30:12

Lowest Channel / 16QAM



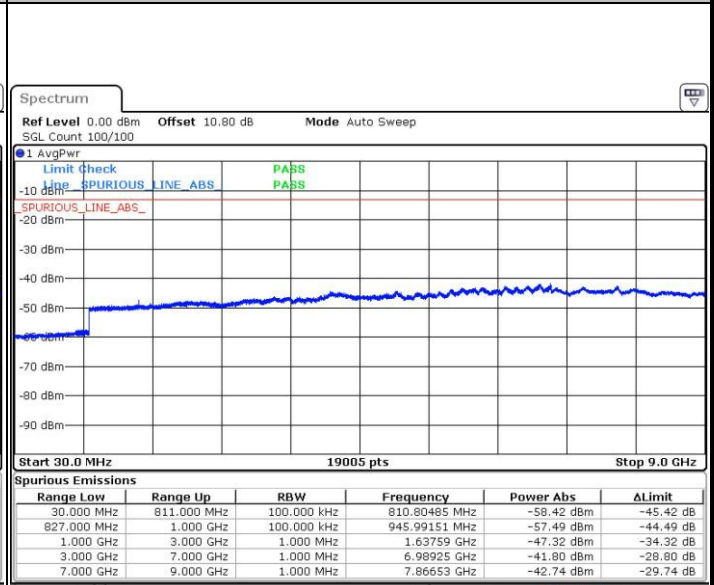
Date: 7.APR.2017 00:31:07

Middle Channel / QPSK



Date: 7.APR.2017 00:32:42

Middle Channel / 16QAM

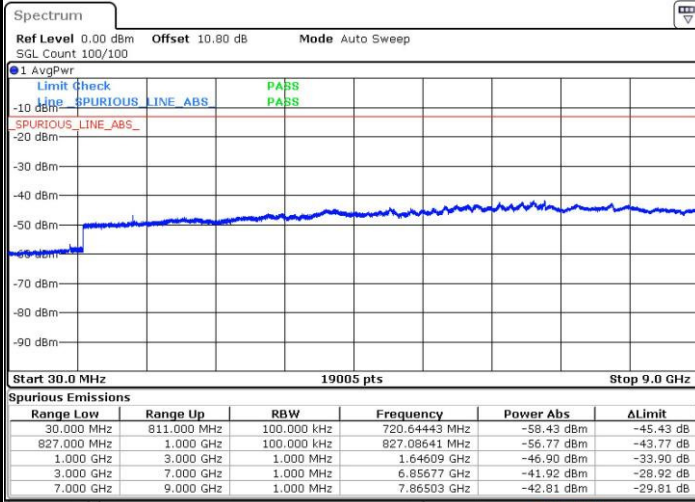


Date: 7.APR.2017 00:33:37



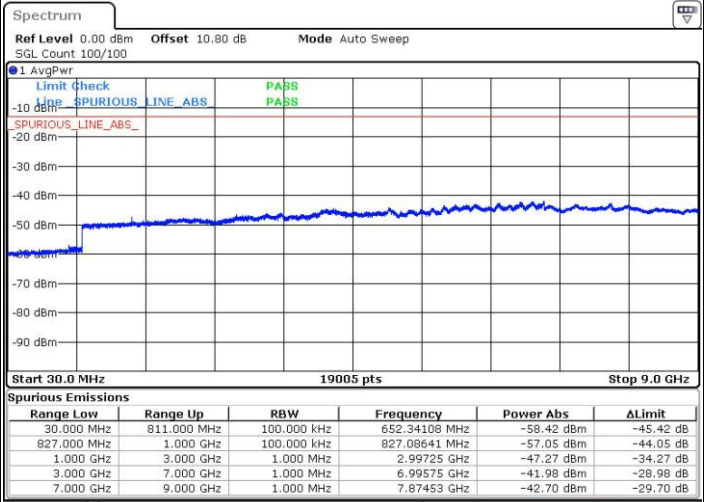
LTE Band 26 / 1.4MHz

Highest Channel / QPSK



Date: 7.APR.2017 00:35:12

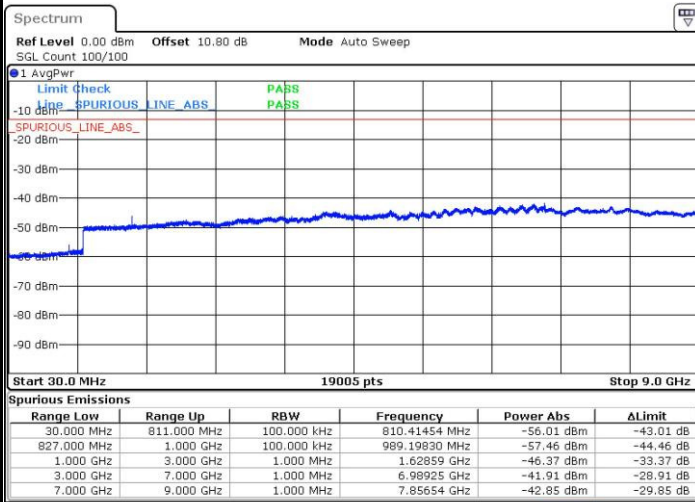
Highest Channel / 16QAM



Date: 7.APR.2017 00:36:07

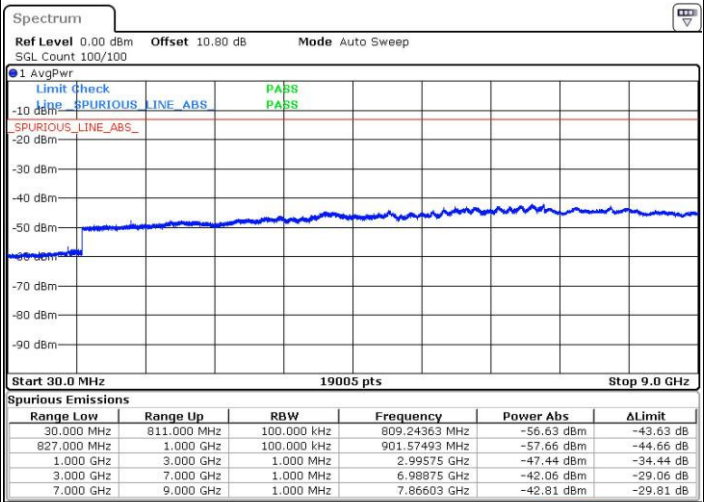
LTE Band 26 / 3MHz

Lowest Channel / QPSK



Date: 7.APR.2017 00:04:36

Lowest Channel / 16QAM

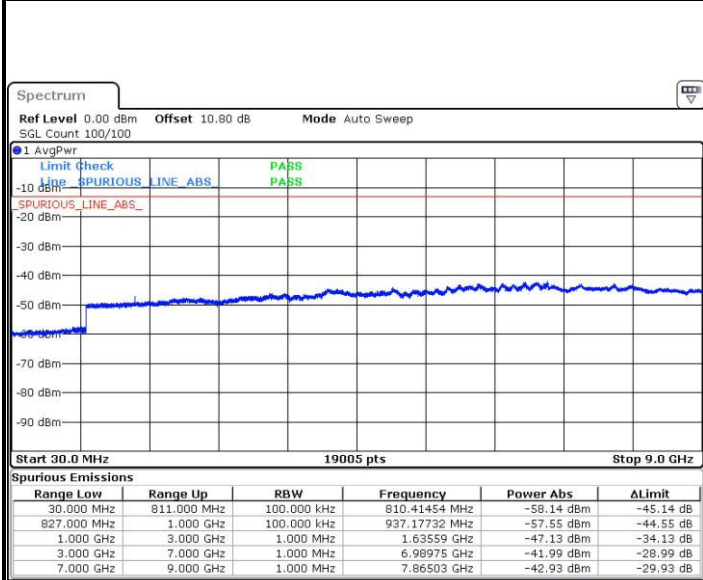


Date: 7.APR.2017 00:05:31



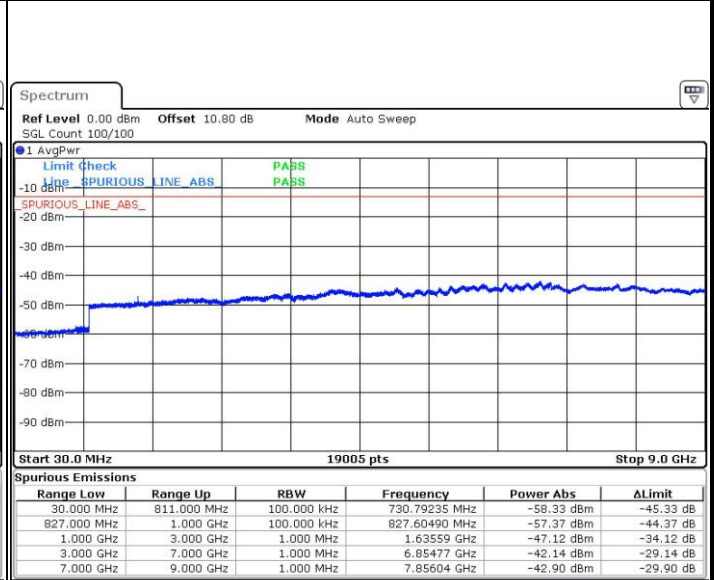
LTE Band 26 / 3MHz

Middle Channel / QPSK



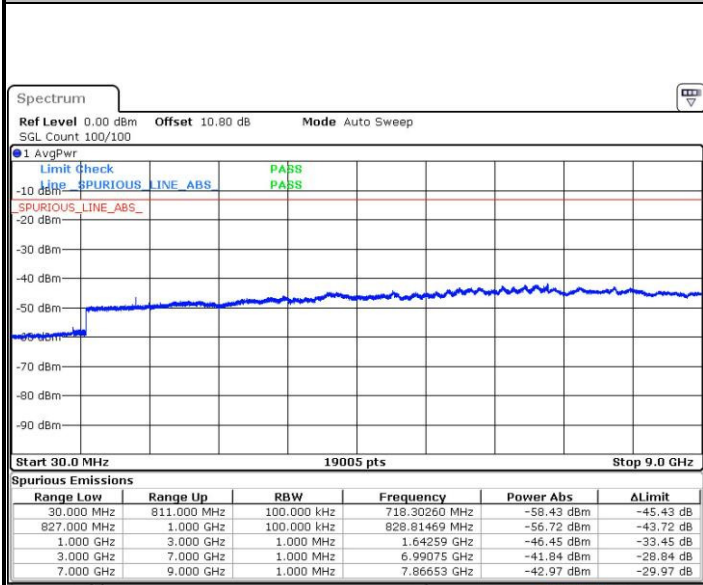
Date: 7.APR.2017 00:07:06

Middle Channel / 16QAM



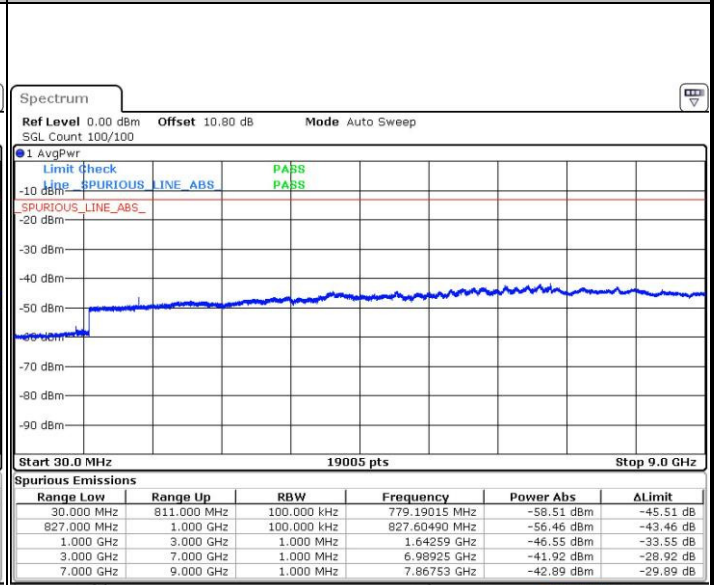
Date: 7.APR.2017 00:08:01

Highest Channel / QPSK



Date: 7.APR.2017 00:09:36

Highest Channel / 16QAM



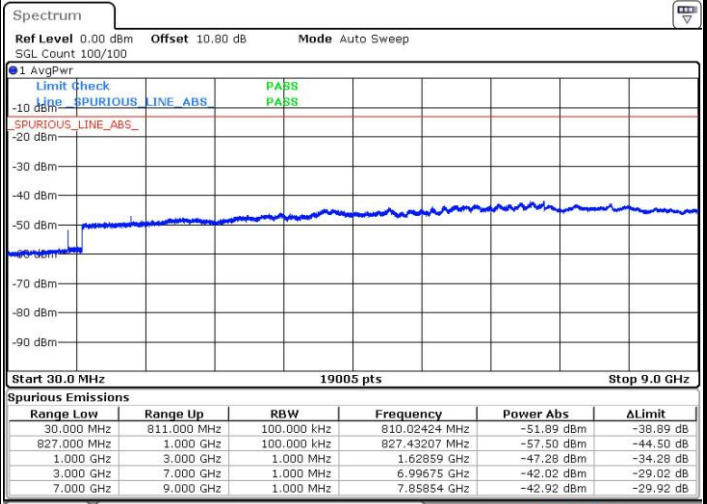
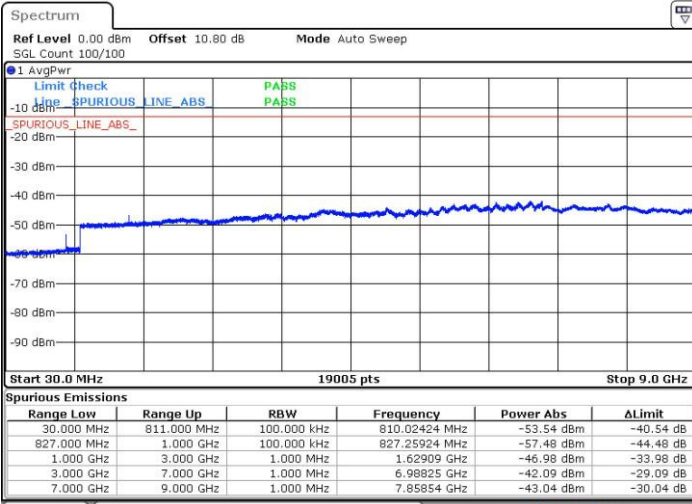
Date: 7.APR.2017 00:10:30



LTE Band 26 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

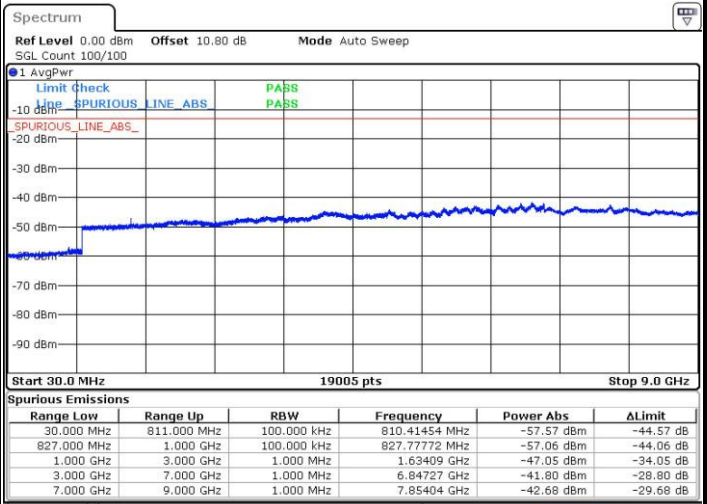
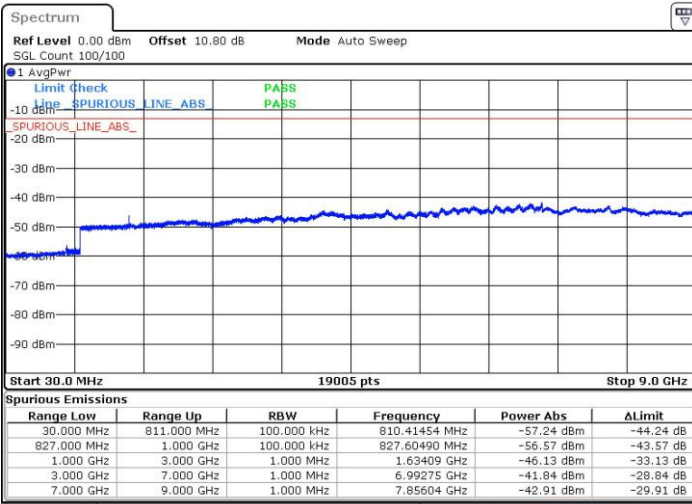


Date: 7.APR.2017 00:12:06

Date: 7.APR.2017 00:13:00

Middle Channel / QPSK

Middle Channel / 16QAM



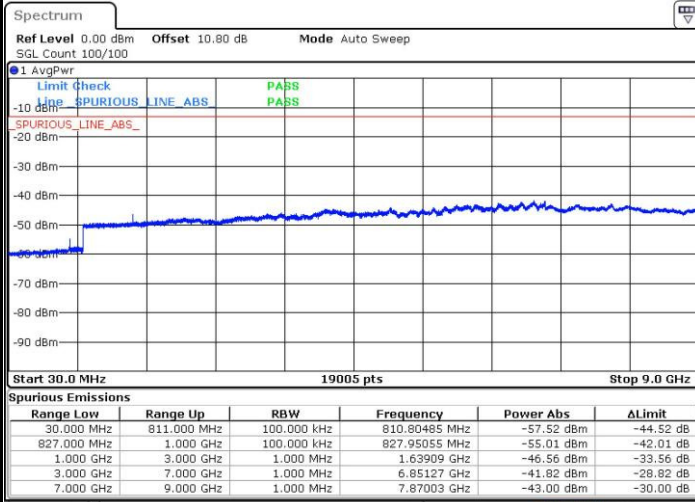
Date: 7.APR.2017 00:14:36

Date: 7.APR.2017 00:15:30



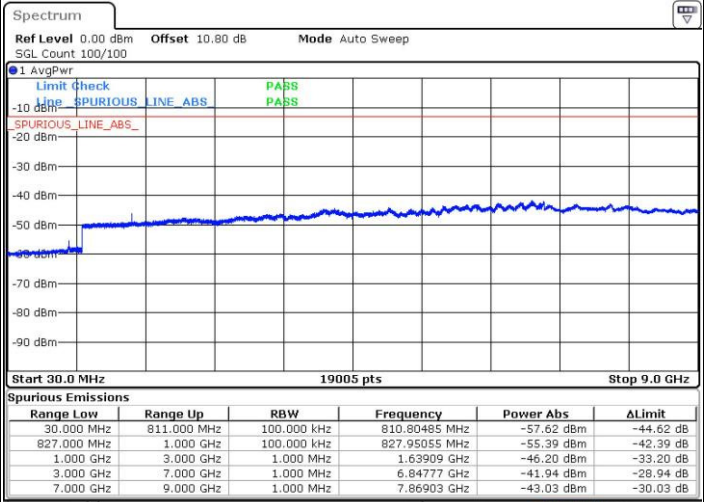
LTE Band 26 / 5MHz

Highest Channel / QPSK



Date: 7.APR.2017 00:17:06

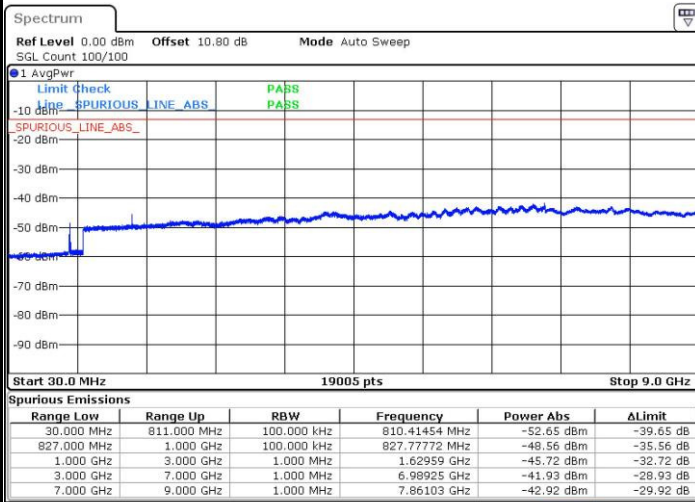
Highest Channel / 16QAM



Date: 7.APR.2017 00:18:00

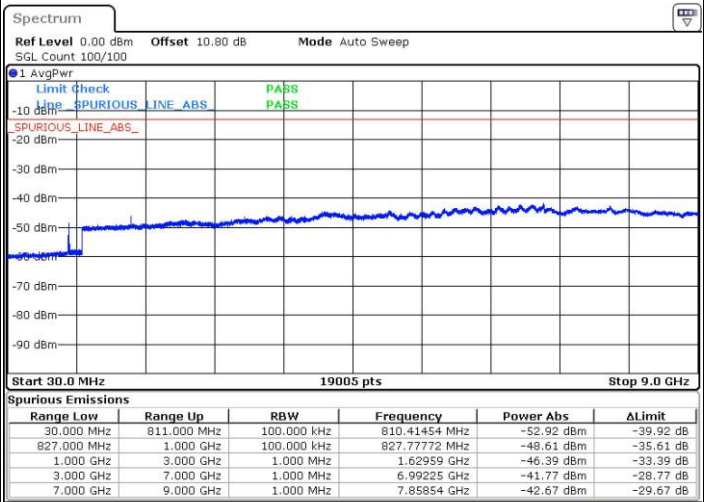
LTE Band 26 / 10MHz

Middle Channel / QPSK



Date: 7.APR.2017 00:19:36

Middle Channel / 16QAM



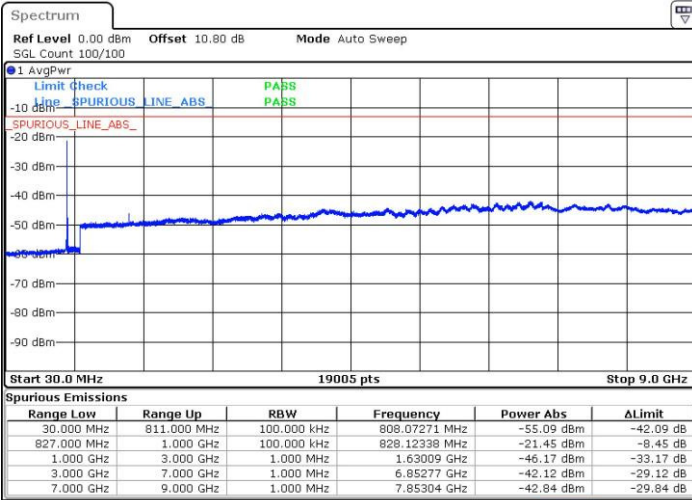
Date: 7.APR.2017 00:20:30



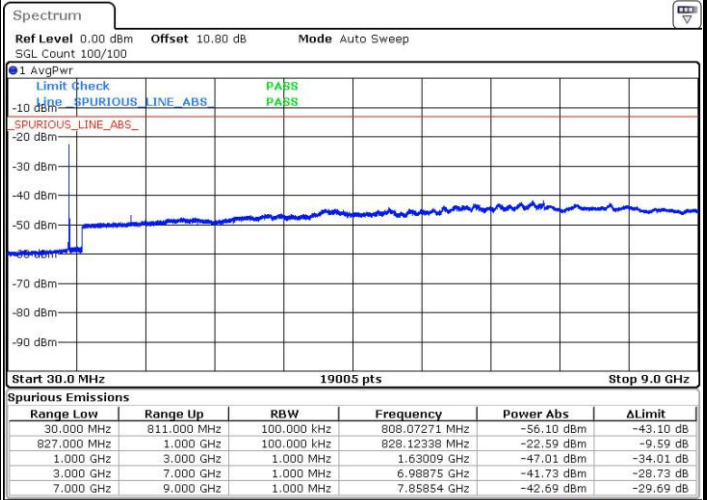
LTE Band 26 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 7.APR.2017 00:59:04

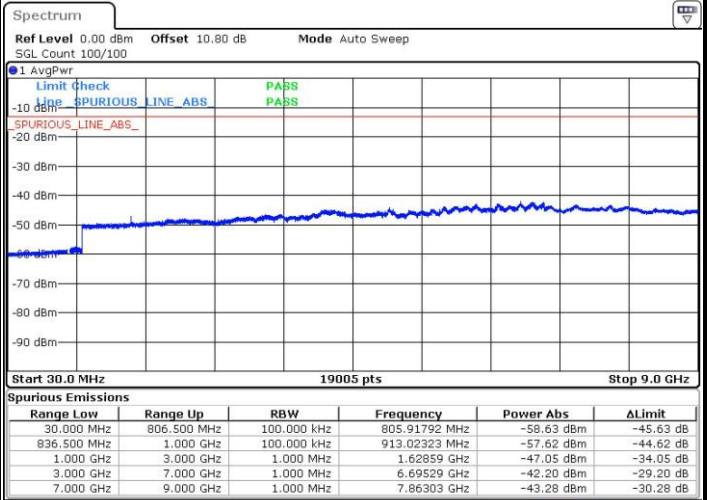


Date: 7.APR.2017 01:00:19



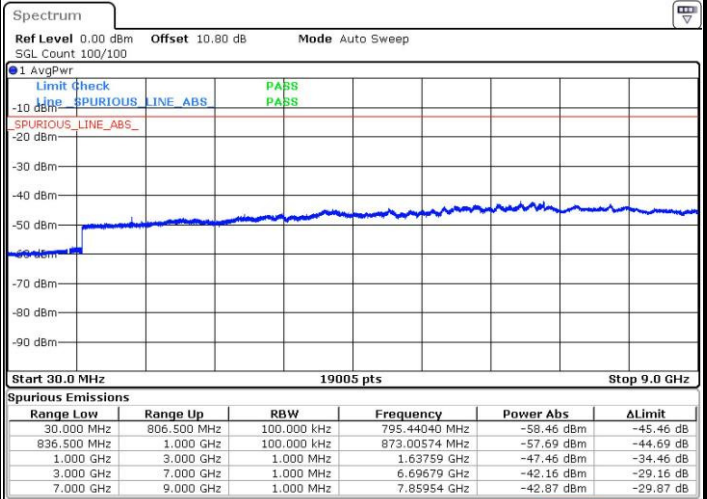
LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM



Date: 27.APR.2017 18:23:15

Middle Channel / 64QAM

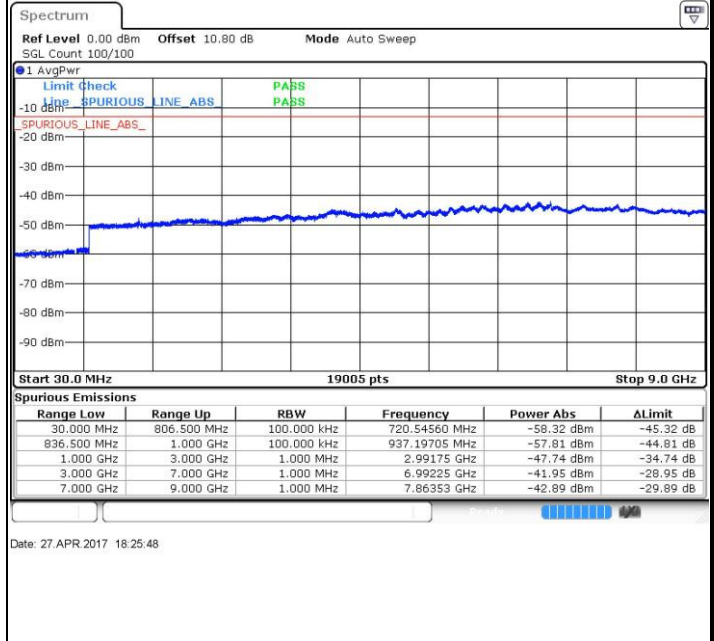


Date: 27.APR.2017 18:24:32



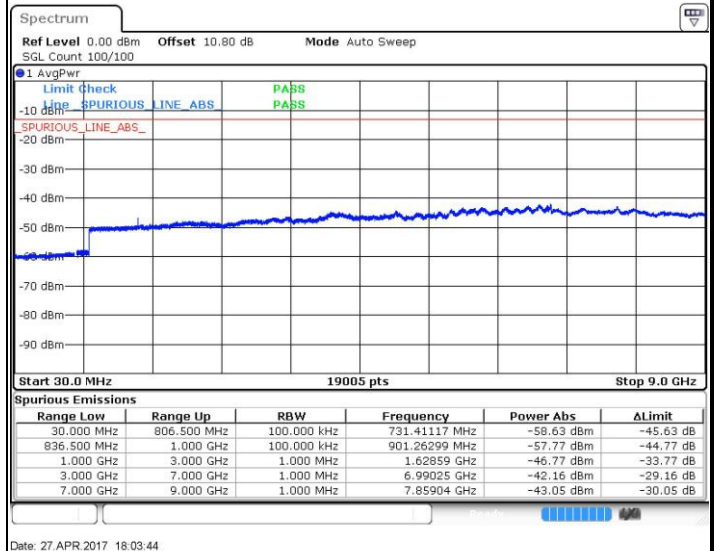
LTE Band 26 / 1.4MHz

Highest Channel / 64QAM



LTE Band 26 / 3MHz

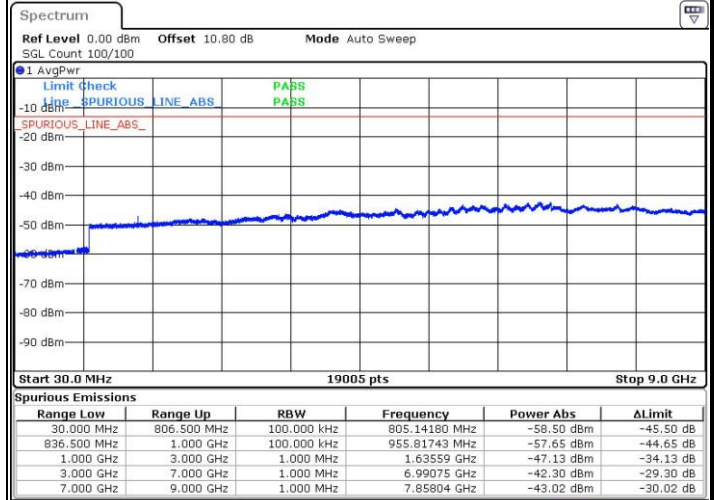
Lowest Channel / 64QAM





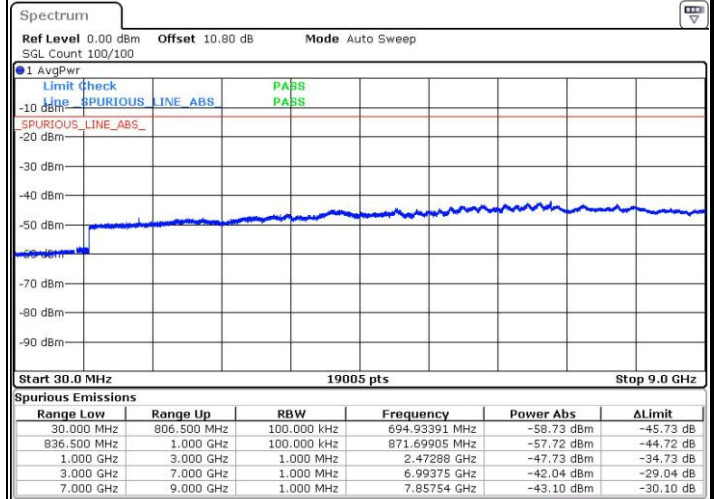
LTE Band 26 / 3MHz

Middle Channel / 64QAM



Date: 27.APR.2017 18:05:01

Highest Channel / 64QAM

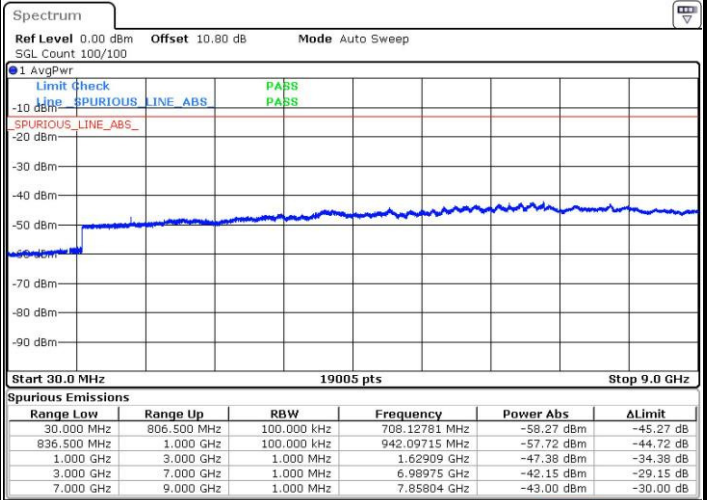


Date: 27.APR.2017 18:06:17



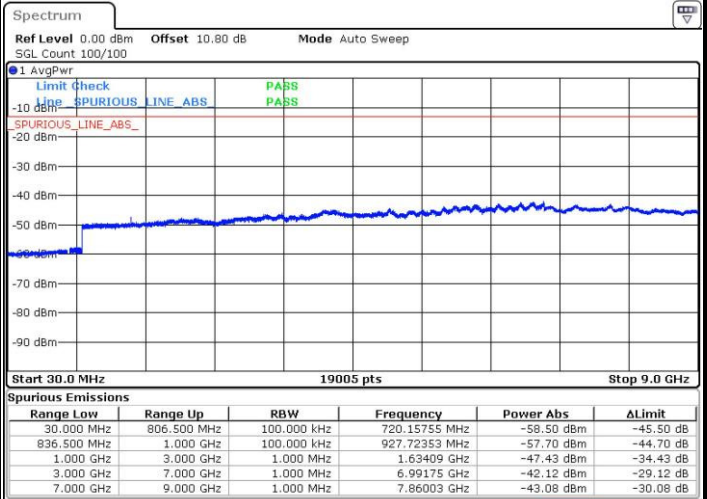
LTE Band 26 / 5MHz

Lowest Channel / 64QAM



Date: 27.APR.2017 18:07:34

Middle Channel / 64QAM

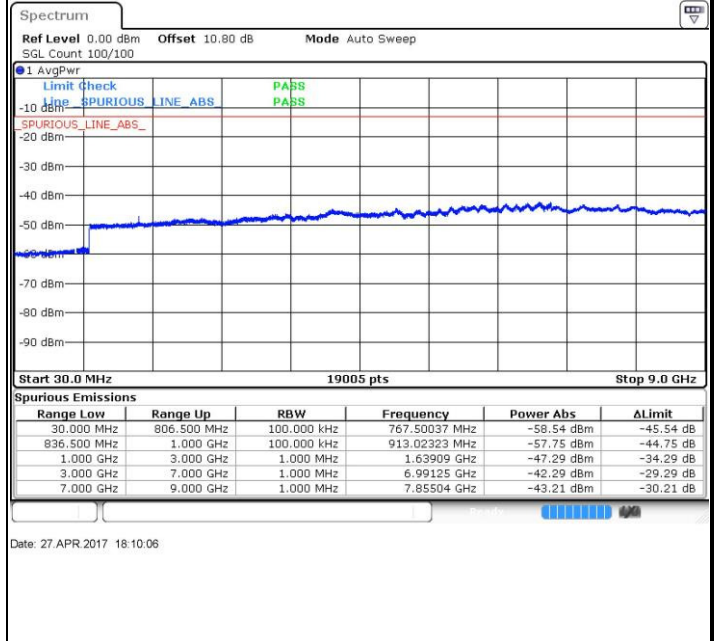


Date: 27.APR.2017 18:08:50



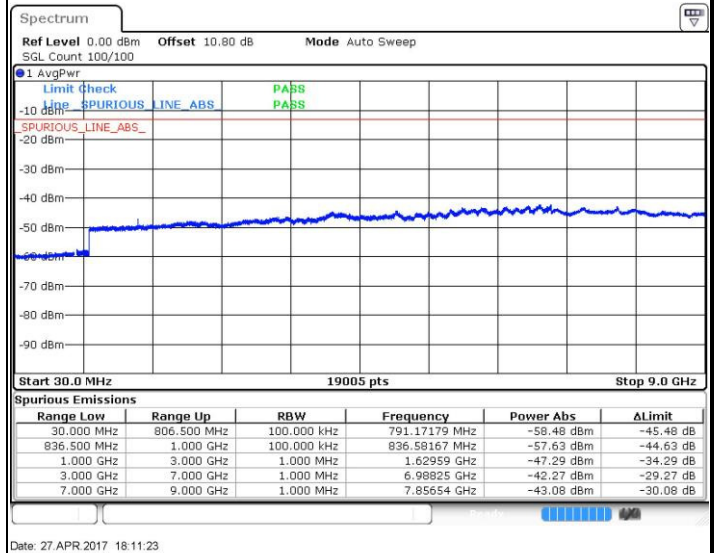
LTE Band 26 / 5MHz

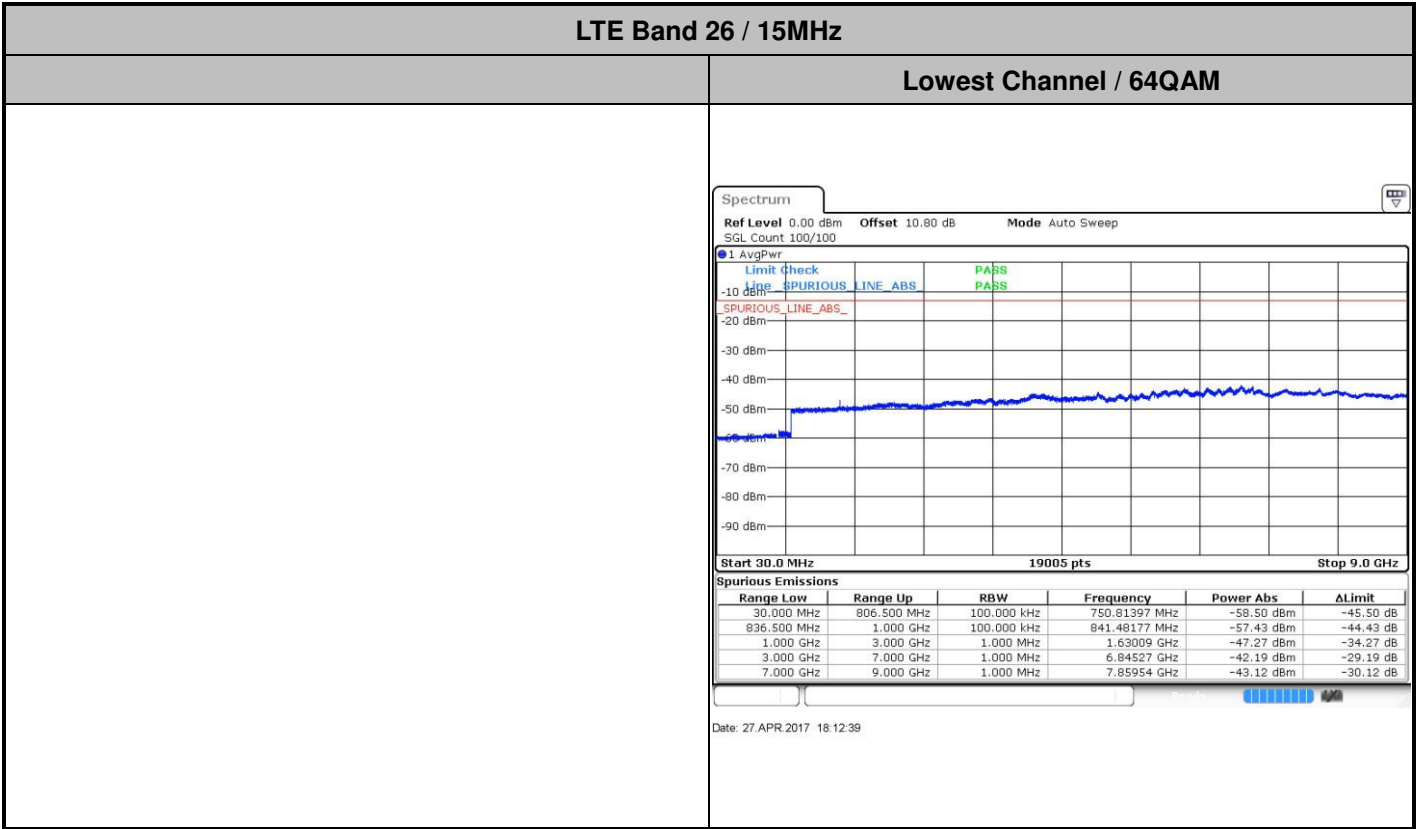
Highest Channel / 64QAM



LTE Band 26 / 10MHz

Middle Channel / 64QAM







Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0127	PASS
40	Normal Voltage	0.0140	
30	Normal Voltage	0.0128	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0140	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0000	
30	Normal Voltage	0.0108	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP and Radiated Test

ERP

LTE Band 26 / 15MHz (Channel 26765) (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	74	23.46	0.22	22.96	0.1975
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	1	37	22.76	0.19	22.26	0.1681
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	64QAM	1	0	21.20	0.13	20.70	0.1174
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Limit	ERP < 7W			Result		PASS	



Radiated Spurious Emission

Part 90S LTE Band 26

Part 90S LTE Band 26 / 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)
Lowest	1624	-57.97	-13	-44.97	-44.57	-59.81	0.97	4.95	H
	2442	-67.33	-13	-54.33	-57.68	-69.13	1.27	5.23	H
	3256	-68.68	-13	-55.68	-61.55	-71.93	1.53	6.93	H
									H
									H
	1624	-54.45	-13	-41.45	-41.24	-56.29	0.97	4.95	V
	2442	-67.74	-13	-54.74	-58.07	-69.54	1.27	5.23	V
	3256	-69.05	-13	-56.05	-61.72	-72.30	1.53	6.93	V
									V
									V
Middle	1640	-56.98	-13	-43.98	-43.66	-58.76	0.97	4.91	H
	2456	-64.23	-13	-51.23	-54.65	-66.07	1.28	5.27	H
	3272	-68.42	-13	-55.42	-61.33	-71.73	1.53	7.00	H
									H
									H
									H
									H
	1640	-54.41	-13	-41.41	-41.26	-56.19	0.97	4.91	V
	2456	-66.53	-13	-53.53	-56.96	-68.37	1.28	5.27	V
	3272	-68.45	-13	-55.45	-61.12	-71.76	1.53	7.00	V
									V
									V
									V
								V	



Highest	1648	-56.01	-13	-43.01	-42.69	-57.77	0.98	4.89	H
	2464	-66.26	-13	-53.26	-56.68	-68.12	1.28	5.29	H
	3290	-68.79	-13	-55.79	-61.73	-72.18	1.54	7.08	H
									H
									H
									H
									H
	1648	-54.12	-13	-41.12	-40.97	-55.88	0.98	4.89	V
	2464	-67.52	-13	-54.52	-57.95	-69.38	1.28	5.29	V
	3290	-68.57	-13	-55.57	-61.29	-71.96	1.54	7.08	V
									V
									V
									V
									V

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



Part 90S LTE Band 26 / 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)
Lowest	1624	-57.99	-13	-44.99	-44.59	-59.83	0.97	4.95	H
	2440	-60.36	-13	-47.36	-50.71	-62.16	1.27	5.22	H
	3256	-68.86	-13	-55.86	-61.73	-72.11	1.53	6.93	H
									H
									H
									H
									H
	1624	-55.18	-13	-42.18	-41.97	-57.02	0.97	4.95	V
	2440	-58.21	-13	-45.21	-48.54	-60.01	1.27	5.22	V
	3256	-69.20	-13	-56.20	-61.87	-72.45	1.53	6.93	V
									V
									V
									V
									V
Middle	1632	-56.05	-13	-43.05	-42.65	-57.86	0.97	4.93	H
	2456	-56.06	-13	-43.06	-46.48	-57.90	1.28	5.27	H
	3272	-67.99	-13	-54.99	-60.9	-71.30	1.53	7.00	H
	4088	-66.59	-13	-53.59	-61.09	-71.25	1.81	8.62	H
									H
									H
									H
	1632	-54.01	-13	-41.01	-40.8	-55.82	0.97	4.93	V
	2456	-60.00	-13	-47.00	-50.43	-61.84	1.28	5.27	V
	3272	-68.29	-13	-55.29	-60.99	-71.60	1.53	7.00	V
	4088	-66.35	-13	-53.35	-60.66	-71.01	1.81	8.62	V
									V
									V
									V



Highest	1640	-56.07	-13	-43.07	-42.75	-57.85	0.97	4.91	H
	2464	-59.00	-13	-46.00	-49.42	-60.86	1.28	5.29	H
	3288	-68.40	-13	-55.40	-61.24	-71.78	1.54	7.07	H
									H
									H
									H
									H
	1640	-52.73	-13	-39.73	-39.58	-54.51	0.97	4.91	V
	2464	-58.24	-13	-45.24	-48.67	-60.10	1.28	5.29	V
	4104	-66.34	-13	-53.34	-60.72	-70.99	1.82	8.62	V
									V
									V
									V
									V

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



Part 90S LTE Band 26 / 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)
Lowest	1624	-57.88	-13	-44.88	-44.48	-59.72	0.97	4.95	H
	2440	-65.33	-13	-52.33	-55.68	-67.13	1.27	5.22	H
	3256	-68.98	-13	-55.98	-61.85	-72.23	1.53	6.93	H
									H
									H
									H
									H
	1624	-55.05	-13	-42.05	-41.84	-56.89	0.97	4.95	V
	2442	-66.29	-13	-53.29	-56.62	-68.09	1.27	5.23	V
	3256	-69.10	-13	-56.10	-61.77	-72.35	1.53	6.93	V
									V
									V
									V
									V
Middle	1632	-57.32	-13	-44.32	-43.92	-59.13	0.97	4.93	H
	2448	-62.86	-13	-49.86	-53.21	-64.68	1.27	5.24	H
	3264	-68.36	-13	-55.36	-61.23	-71.64	1.53	6.96	H
									H
									H
									H
									H
	1632	-54.74	-13	-41.74	-41.53	-56.55	0.97	4.93	V
	2448	-64.91	-13	-51.91	-55.24	-66.73	1.27	5.24	V
	3264	-68.57	-13	-55.57	-61.24	-71.85	1.53	6.96	V
									V
									V
									V
									V



Highest	1640	-56.65	-13	-43.65	-43.33	-58.43	0.97	4.91	H
	2456	-67.72	-13	-54.72	-58.14	-69.56	1.28	5.27	H
	3280	-68.35	-13	-55.35	-61.26	-71.70	1.54	7.03	H
									H
									H
									H
									H
	1640	-54.17	-13	-41.17	-41.02	-55.95	0.97	4.91	V
	2456	-64.07	-13	-51.07	-54.5	-65.91	1.28	5.27	V
	3280	-68.55	-13	-55.55	-61.25	-71.90	1.54	7.03	V
									V
									V
									V
									V

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



Part 90S LTE Band 26 / 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	1632	-59.70	-13	-46.70	-46.3	-61.51	0.97	4.93	H
	2440	-61.82	-13	-48.82	-52.17	-63.62	1.27	5.22	H
	3256	-68.80	-13	-55.80	-61.67	-72.05	1.53	6.93	H
									H
									H
									H
									H
	1632	-55.60	-13	-42.60	-42.39	-57.41	0.97	4.93	V
	2440	-63.58	-13	-50.58	-53.91	-65.38	1.27	5.22	V
	3256	-68.76	-13	-55.76	-61.43	-72.01	1.53	6.93	V
									V
									V
									V
									V

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



Part 90S LTE Band 26 / 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)
Lowest	1632	-57.64	-13	-44.64	-44.24	-59.45	0.97	4.93	H
	2444	-67.03	-13	-54.03	-57.38	-68.84	1.27	5.23	H
	3259	-68.95	-13	-55.95	-61.82	-72.21	1.53	6.94	H
									H
									H
									H
									H
	1632	-54.67	-13	-41.67	-41.46	-56.48	0.97	4.93	V
	2444	-67.42	-13	-54.42	-57.75	-69.23	1.27	5.23	V
	3259	-69.18	-13	-56.18	-61.85	-72.44	1.53	6.94	V
									V
									V
									V
									V

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