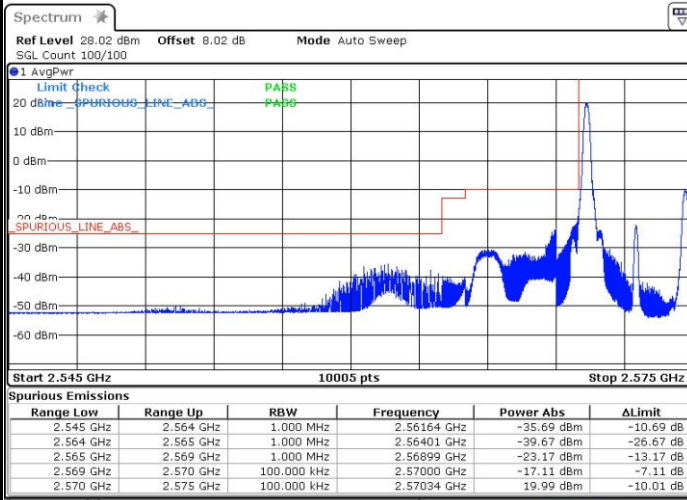




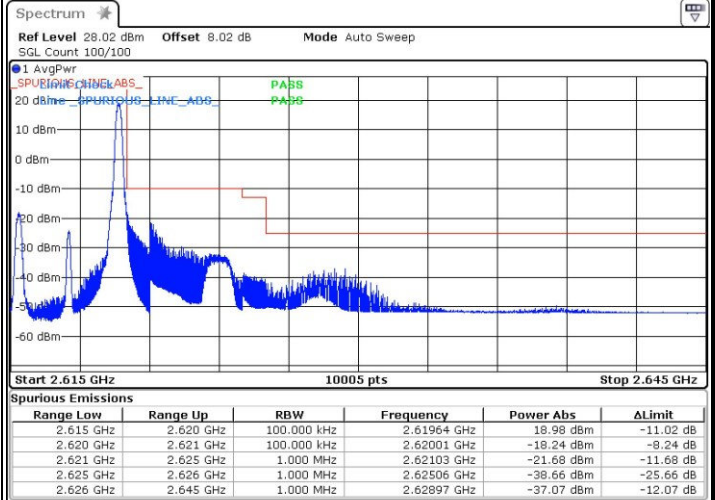
LTE Band 38 / 5MHz / 16QAM

Lowest Band Edge / 1RB



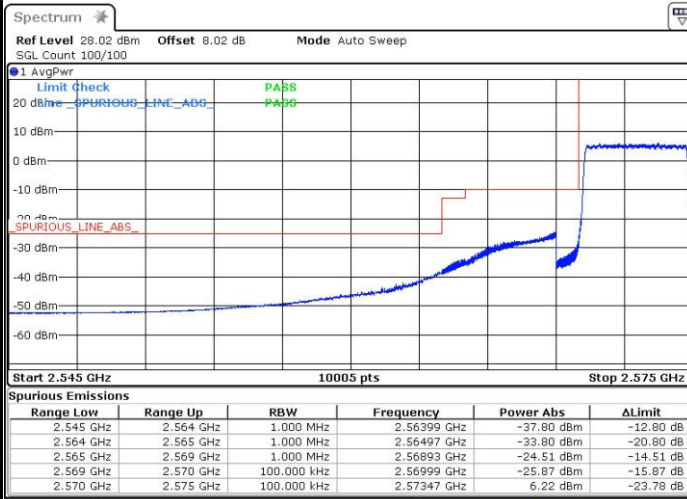
Date: 17.MAR.2017 09:53:30

Highest Band Edge / 1 RB



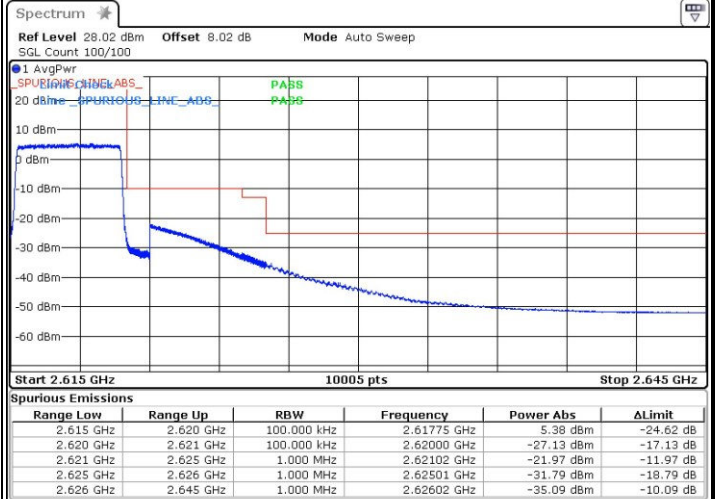
Date: 17.MAR.2017 10:16:18

Lowest Band Edge / Full RB



Date: 17.MAR.2017 09:55:40

Highest Band Edge / Full RB



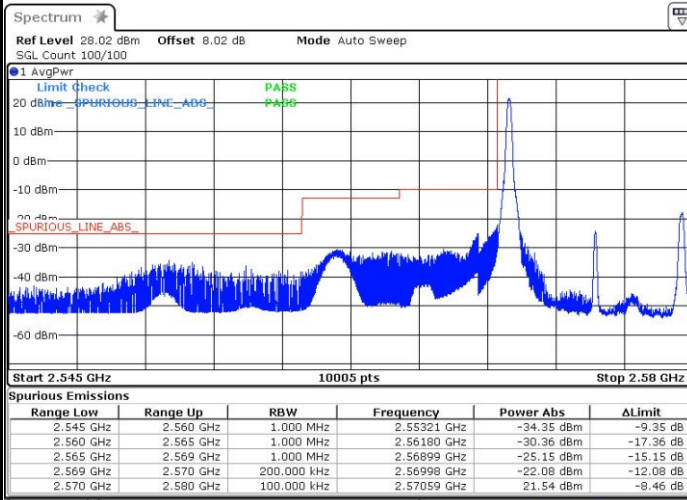
Date: 17.MAR.2017 10:00:26



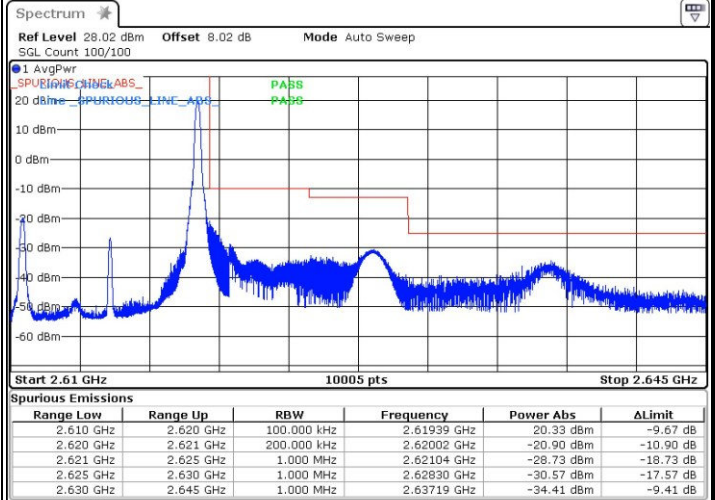
LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



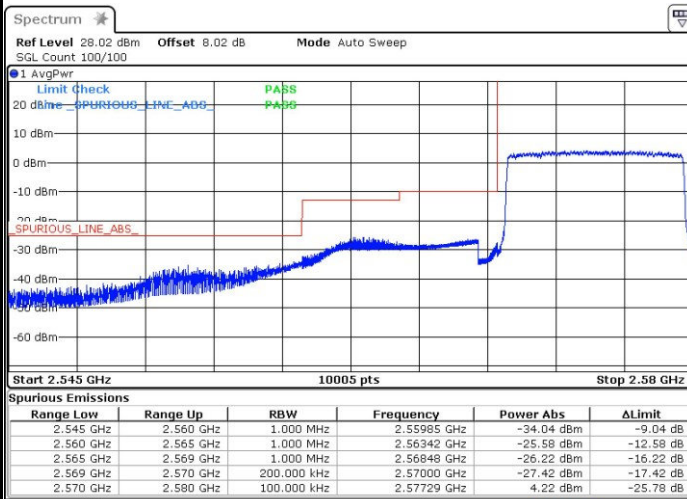
Date: 17.MAR.2017 10:20:54



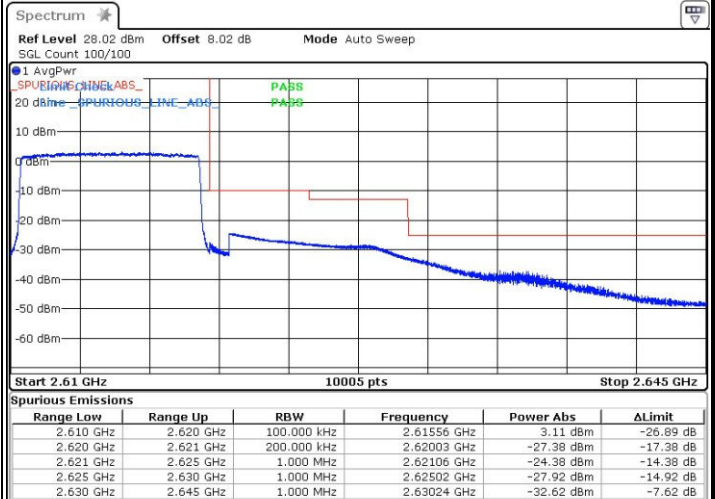
Date: 17.MAR.2017 10:38:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.MAR.2017 10:27:48

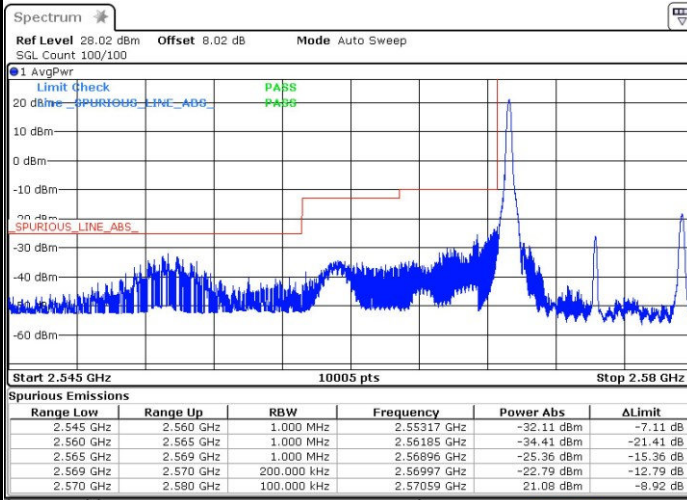


Date: 17.MAR.2017 13:52:37



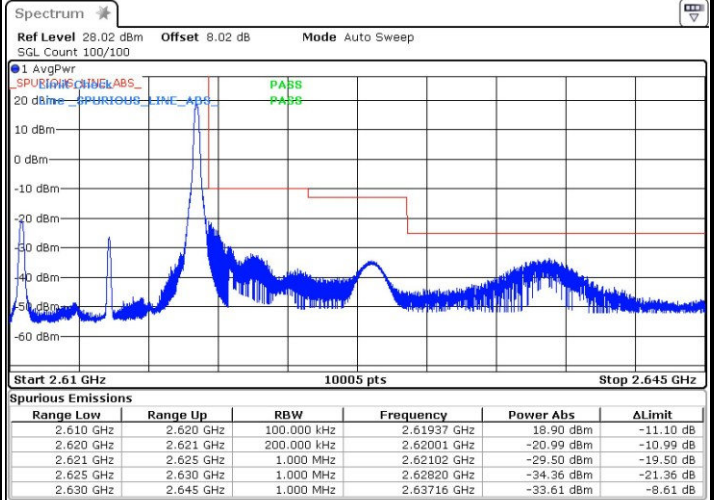
LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



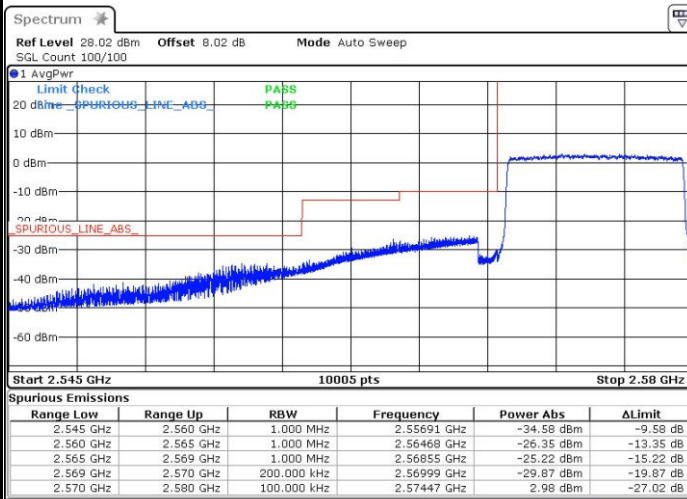
Date: 17.MAR.2017 10:22:24

Highest Band Edge / 1 RB



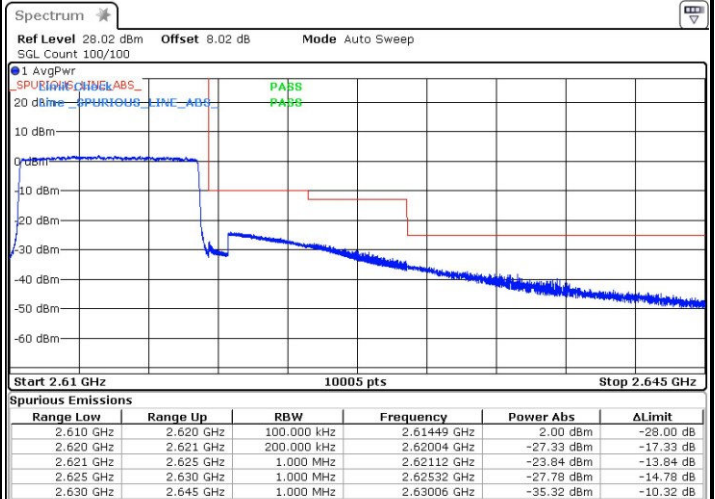
Date: 17.MAR.2017 10:36:00

Lowest Band Edge / Full RB



Date: 17.MAR.2017 10:25:16

Highest Band Edge / Full RB

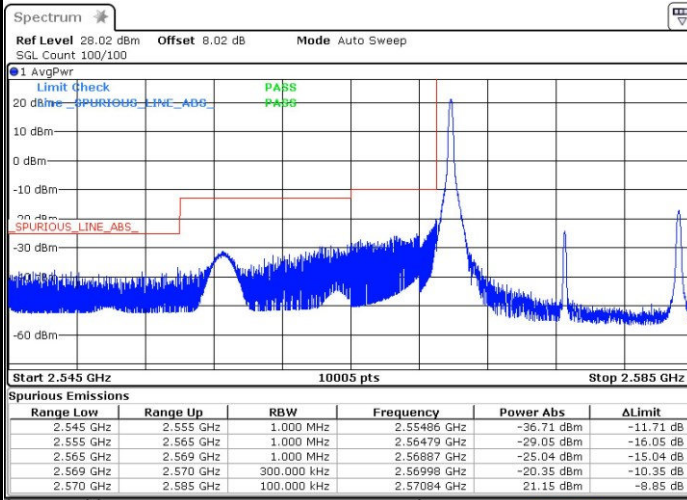


Date: 17.MAR.2017 10:32:41



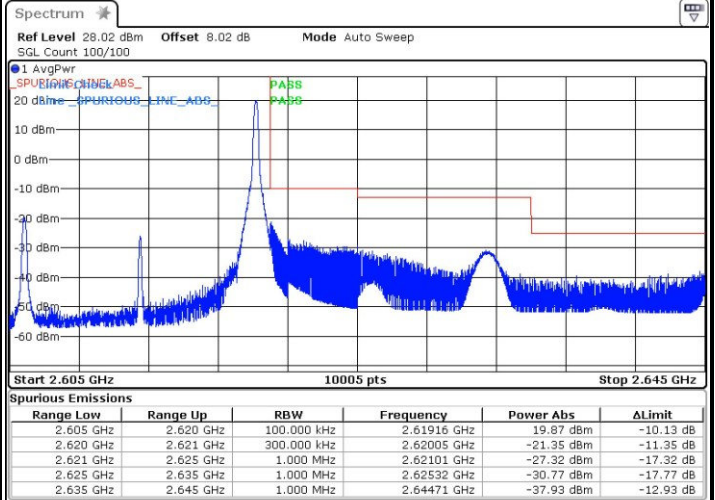
LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / 1 RB



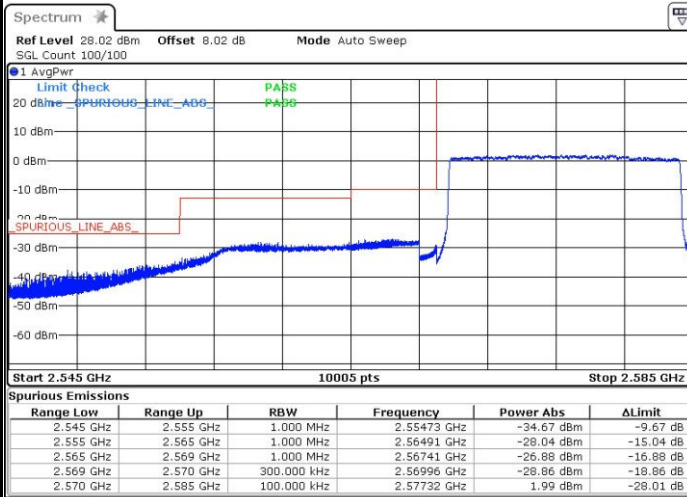
Date: 17.MAR.2017 10:40:24

Highest Band Edge / 1 RB



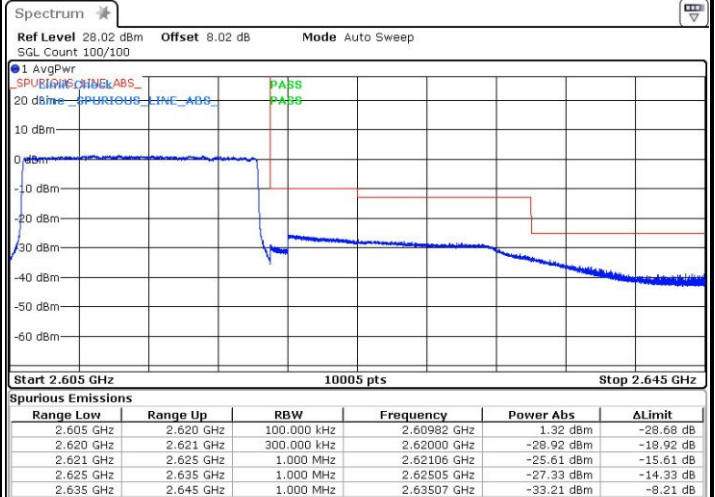
Date: 17.MAR.2017 10:58:31

Lowest Band Edge / Full RB



Date: 17.MAR.2017 10:48:30

Highest Band Edge / Full RB

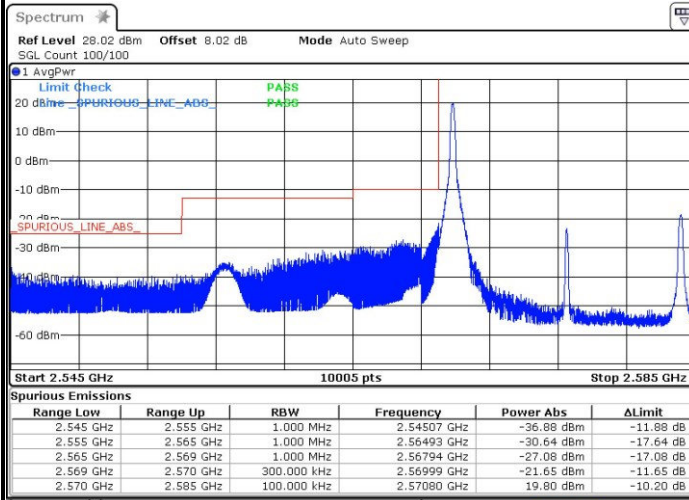


Date: 17.MAR.2017 10:51:02



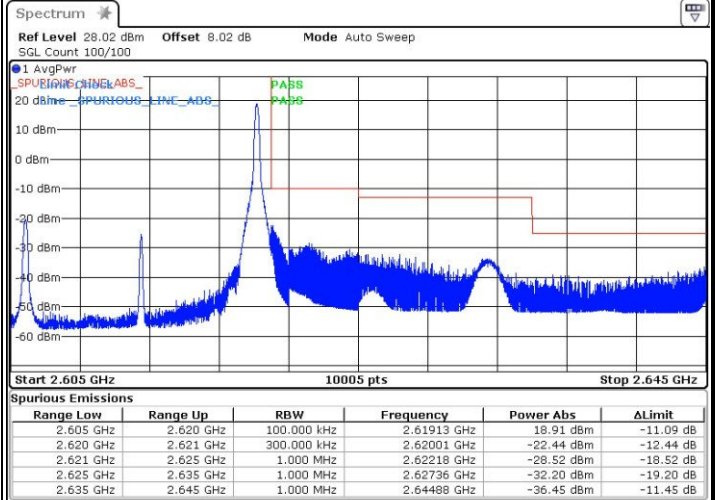
LTE Band 38 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



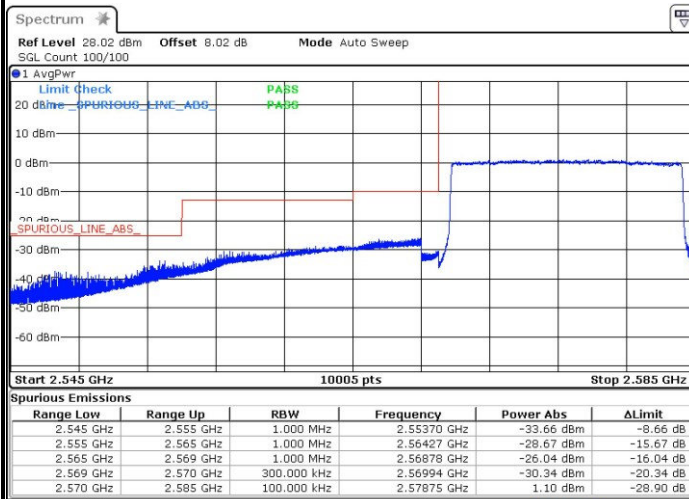
Date: 17.MAR.2017 10:42:54

Highest Band Edge / 1 RB



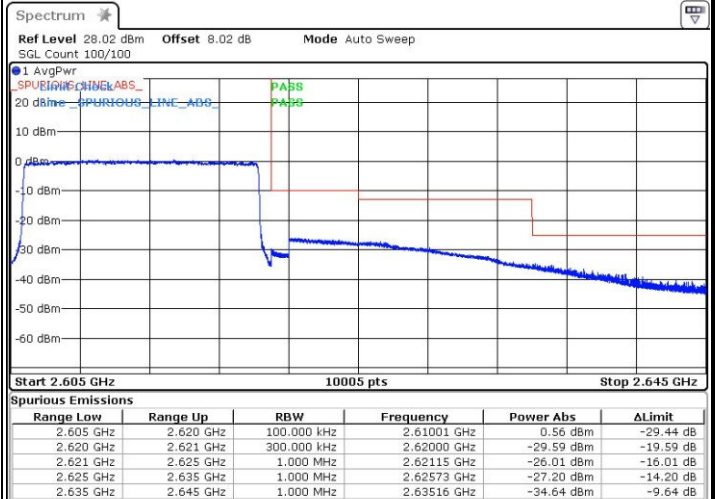
Date: 17.MAR.2017 10:54:26

Lowest Band Edge / Full RB



Date: 17.MAR.2017 10:44:30

Highest Band Edge / Full RB



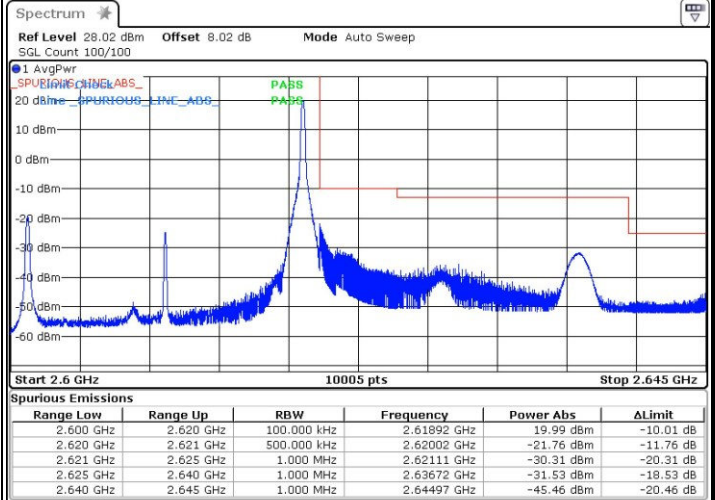
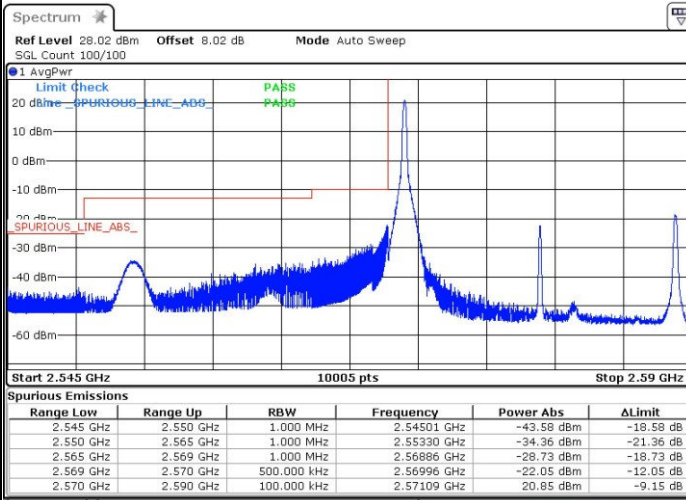
Date: 17.MAR.2017 10:52:50



LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

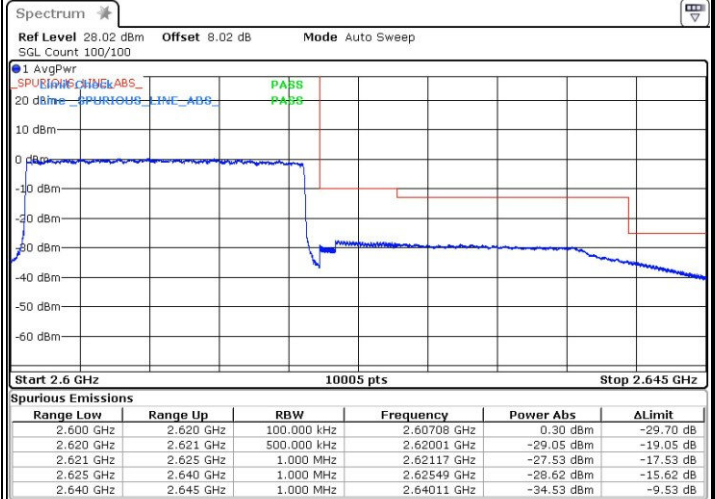
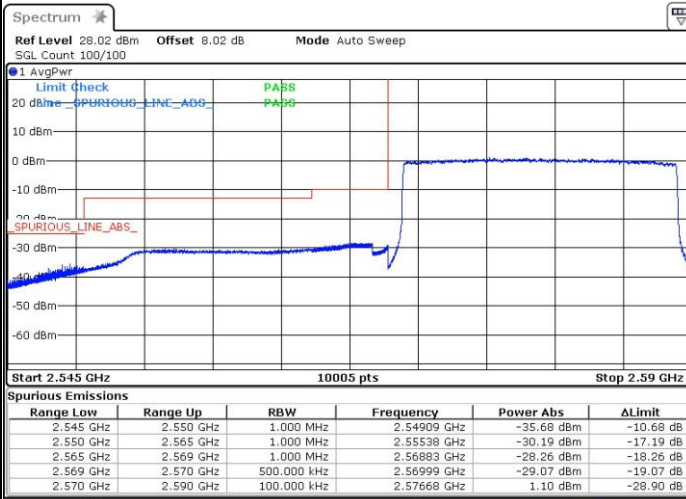


Date: 17.MAR.2017 11:00:41

Date: 17.MAR.2017 11:11:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



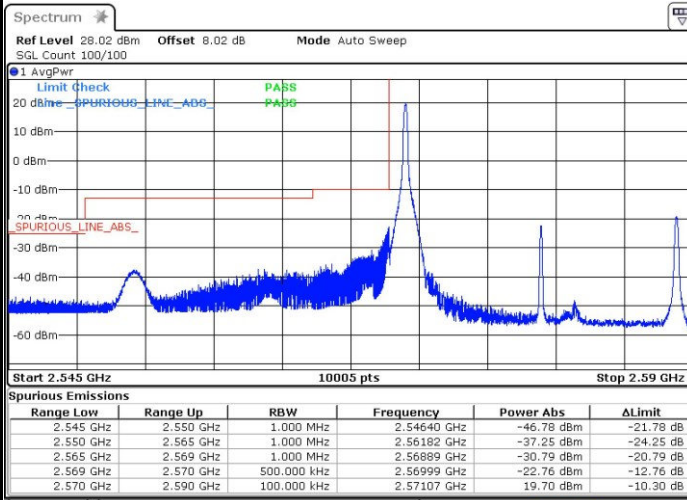
Date: 17.MAR.2017 11:05:16

Date: 17.MAR.2017 11:06:38



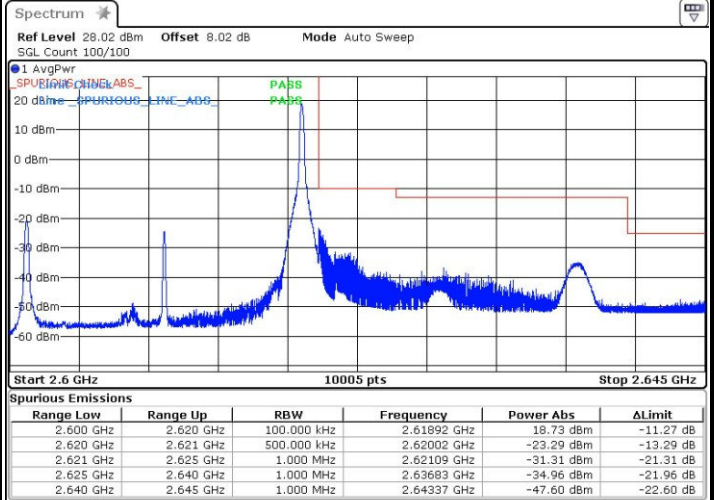
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



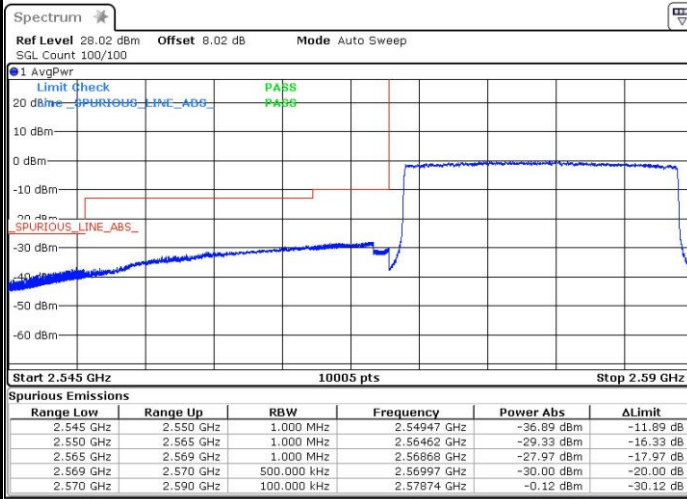
Date: 17.MAR.2017 11:02:04

Highest Band Edge / 1 RB



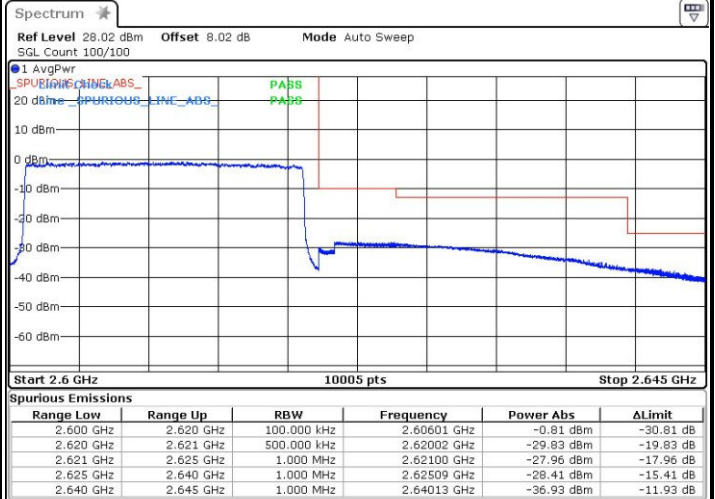
Date: 17.MAR.2017 11:09:32

Lowest Band Edge / Full RB



Date: 17.MAR.2017 11:03:33

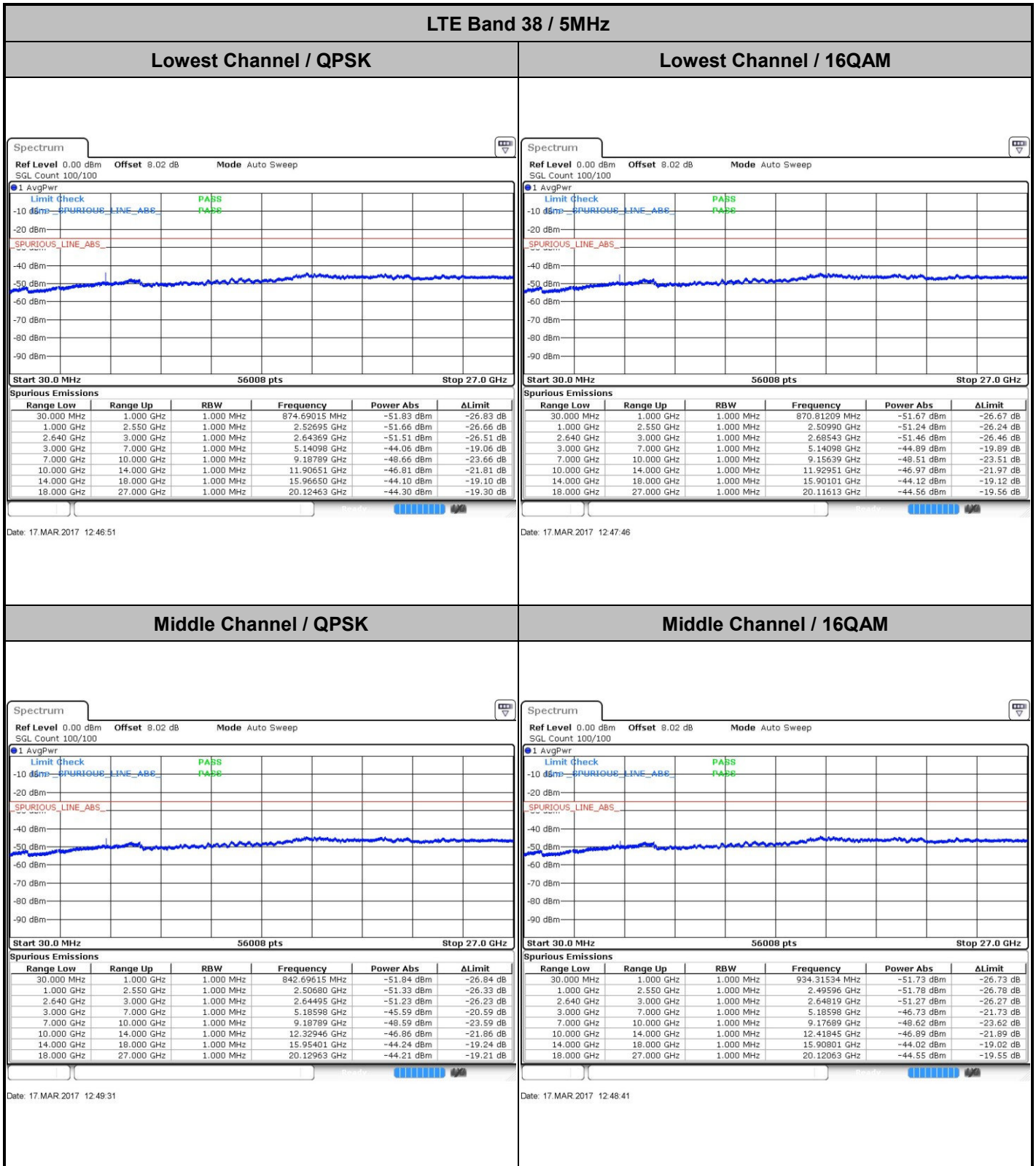
Highest Band Edge / Full RB



Date: 17.MAR.2017 11:08:05



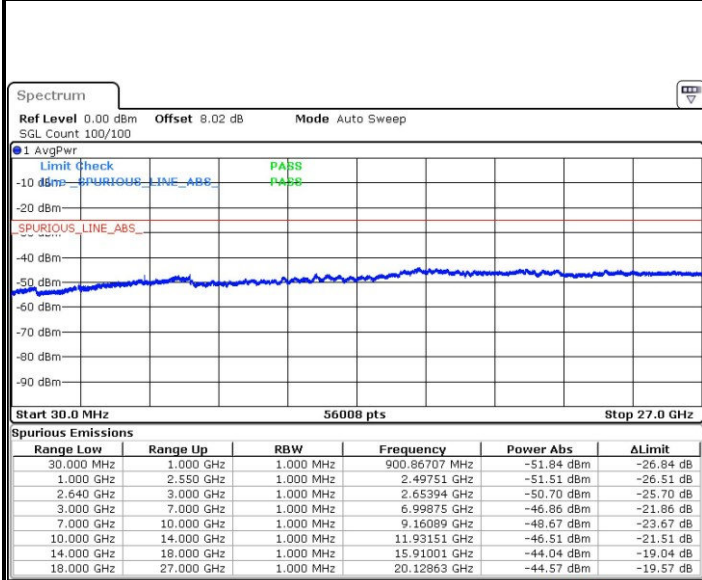
Conducted Spurious Emission





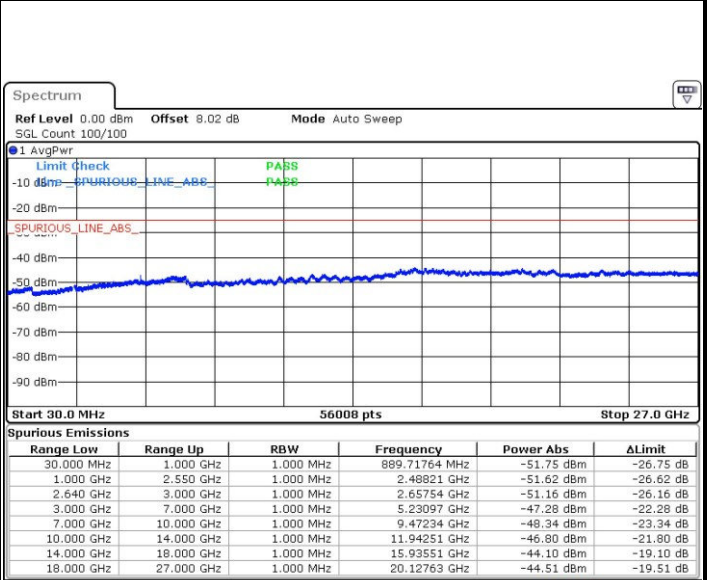
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 17.MAR.2017 12:50:23

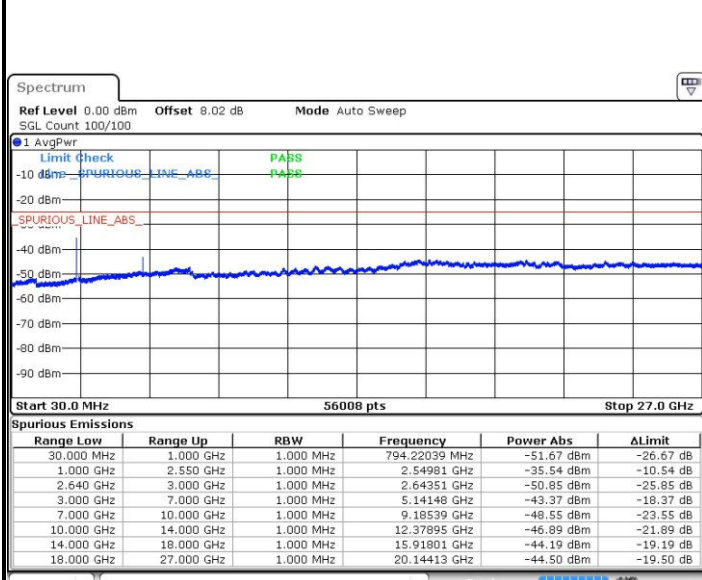
Highest Channel / 16QAM



Date: 17.MAR.2017 12:51:18

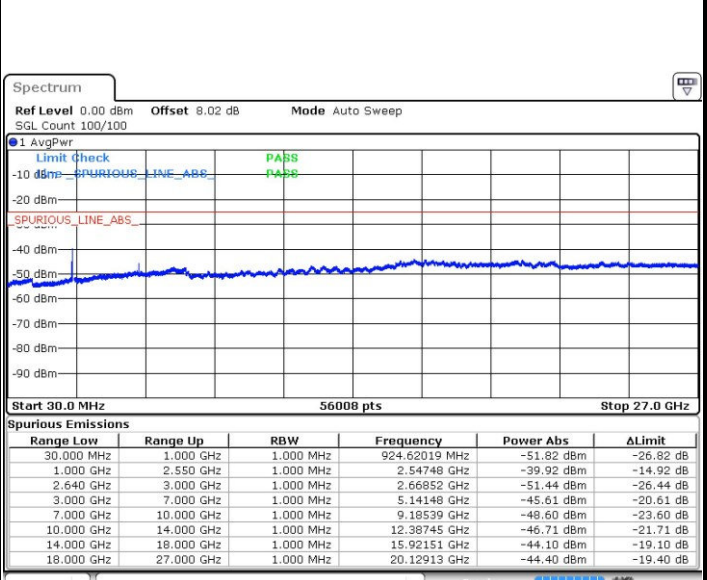
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 17.MAR.2017 12:53:23

Lowest Channel / 16QAM



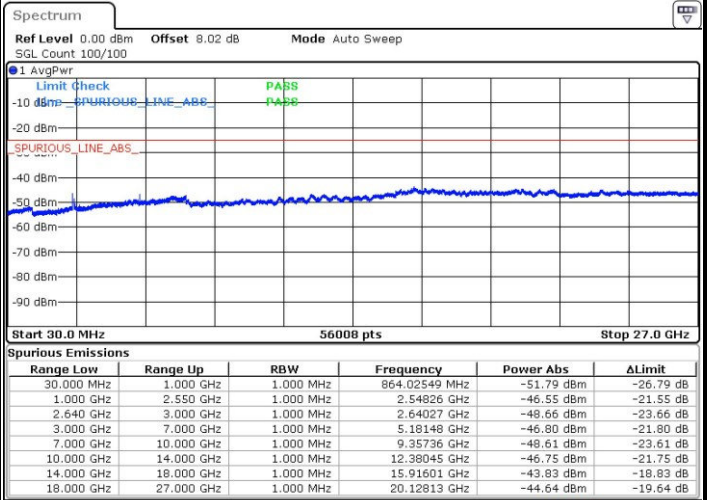
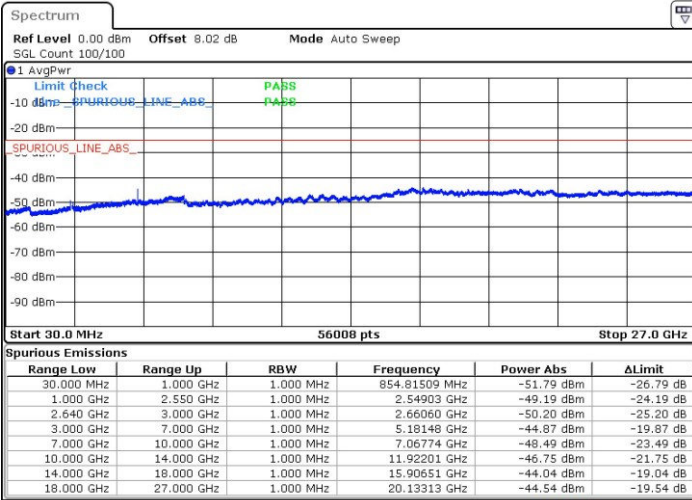
Date: 17.MAR.2017 12:52:16



LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

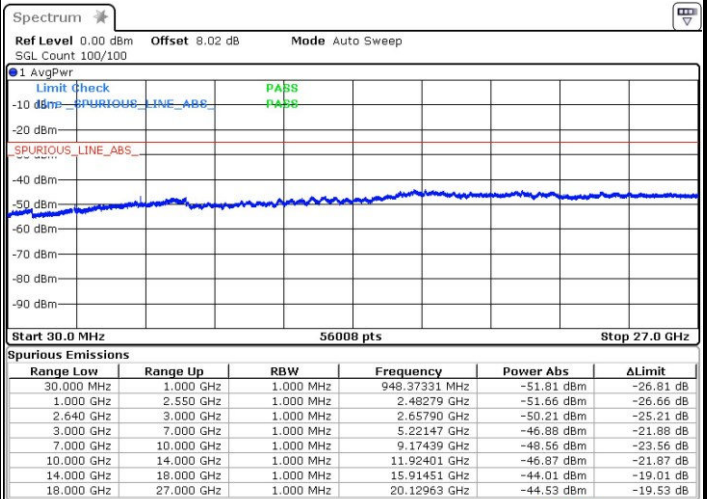
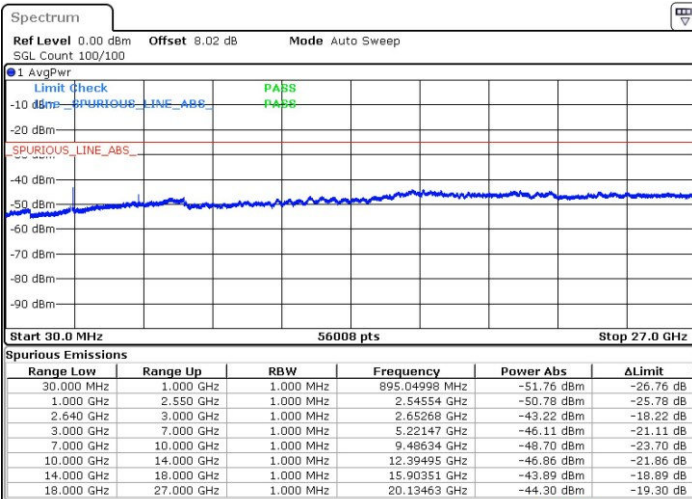


Date: 17.MAR.2017 12:54:16

Date: 17.MAR.2017 12:56:13

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 17.MAR.2017 12:59:11

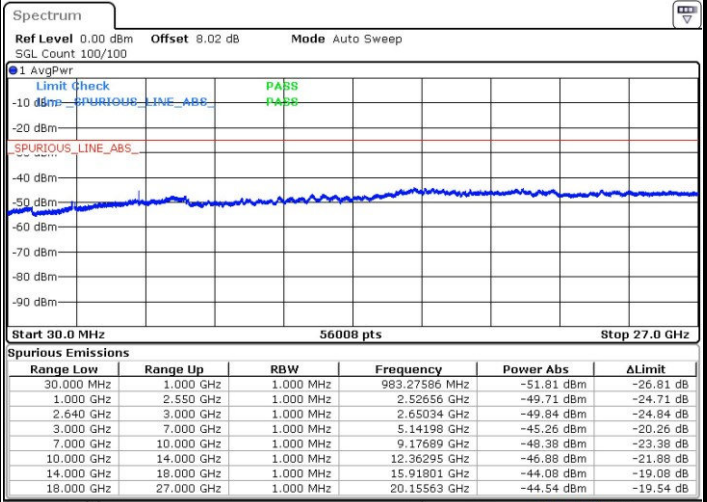
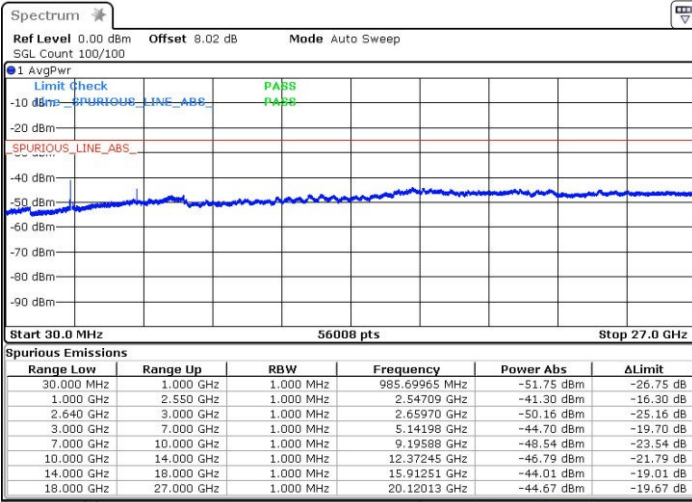
Date: 17.MAR.2017 12:58:10



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

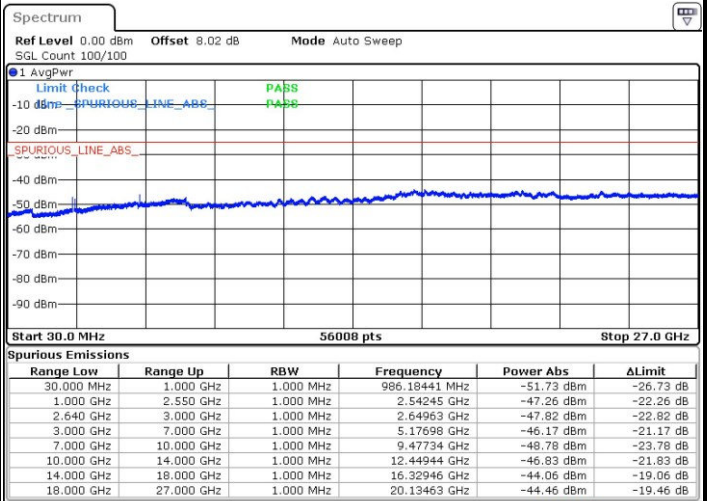
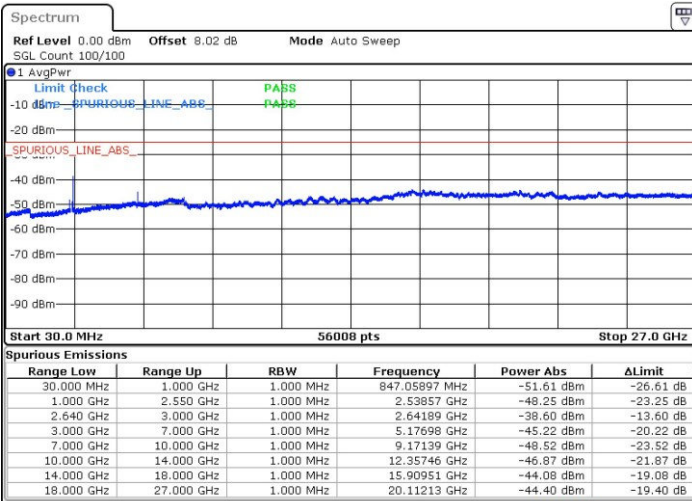


Date: 17.MAR.2017 13:01:21

Date: 17.MAR.2017 13:02:21

Middle Channel / QPSK

Middle Channel / 16QAM



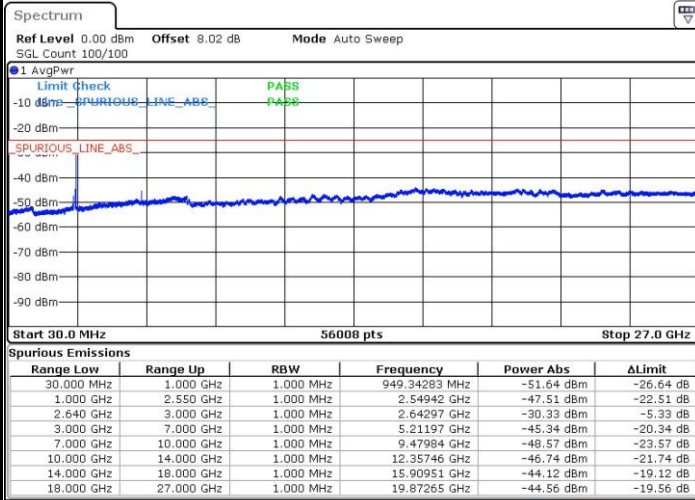
Date: 17.MAR.2017 13:04:14

Date: 17.MAR.2017 13:03:15



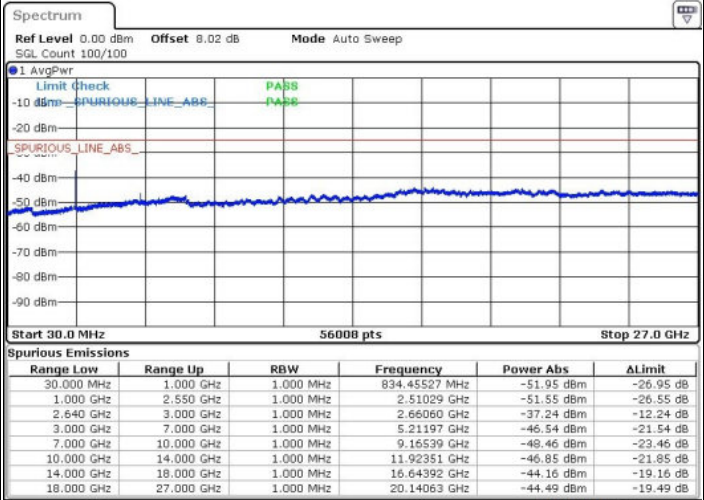
LTE Band 38 / 15MHz

Highest Channel / QPSK



Date: 17.MAR.2017 13:05:08

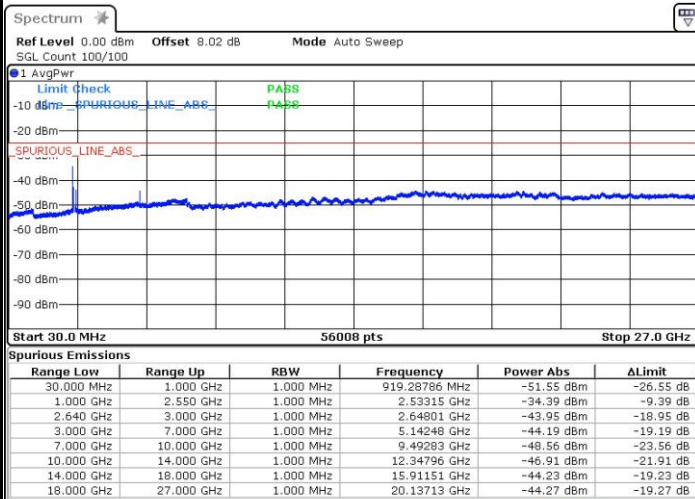
Highest Channel / 16QAM



Date: 17.MAR.2017 14:28:13

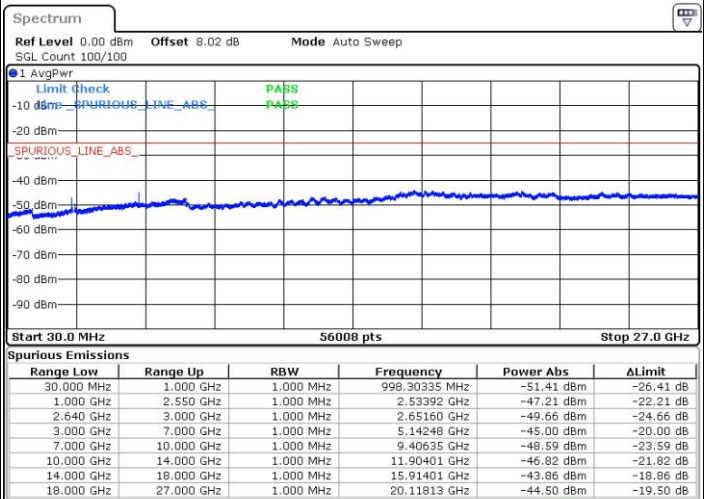
LTE Band 38 / 20MHz

Lowest Channel / QPSK



Date: 17.MAR.2017 13:09:59

Lowest Channel / 16QAM

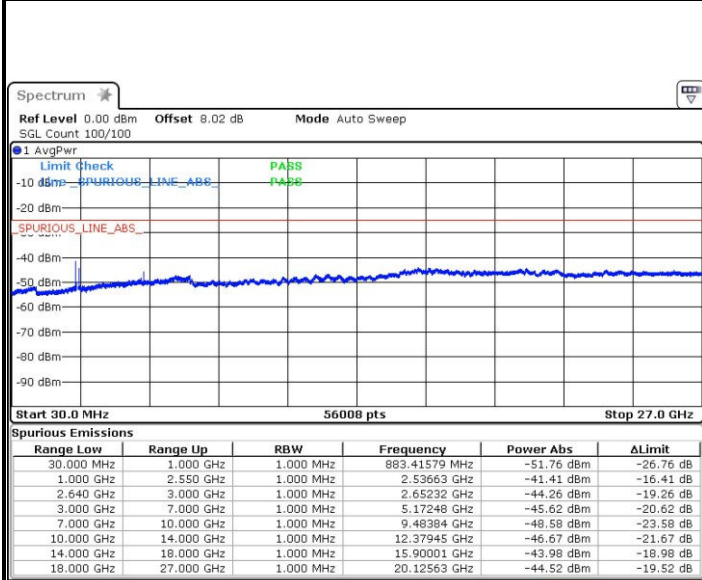


Date: 17.MAR.2017 13:08:58



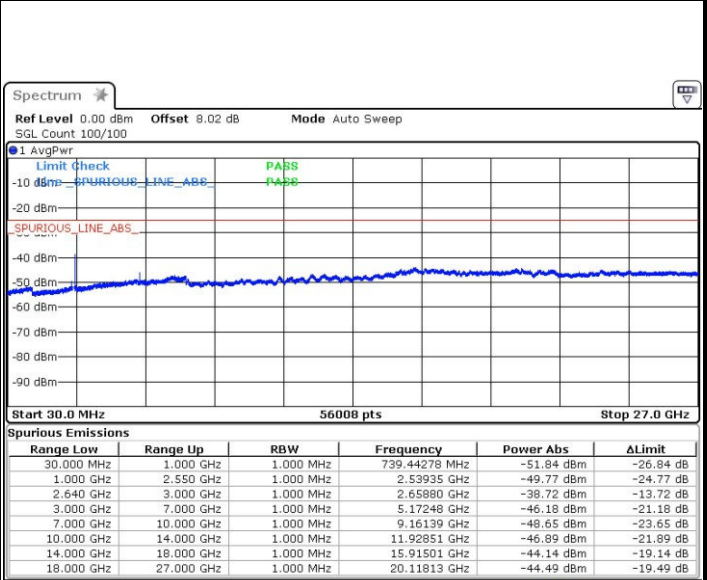
LTE Band 38 / 20MHz

Middle Channel / QPSK



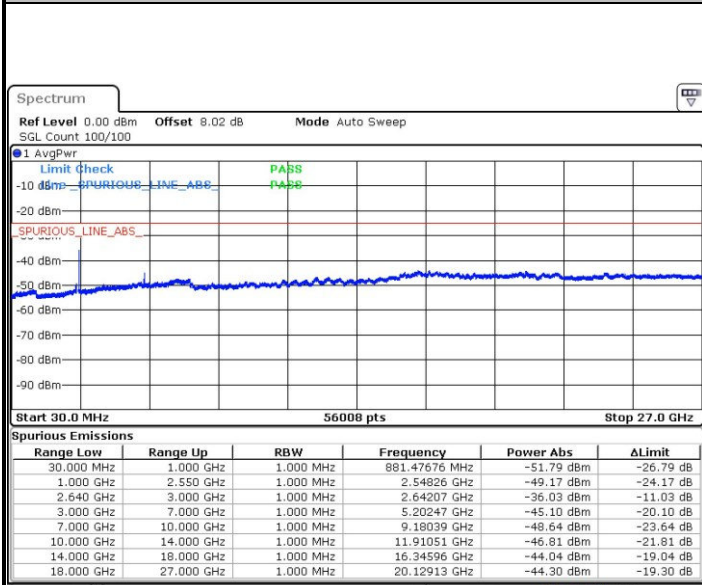
Date: 17.MAR.2017 13:11:47

Middle Channel / 16QAM



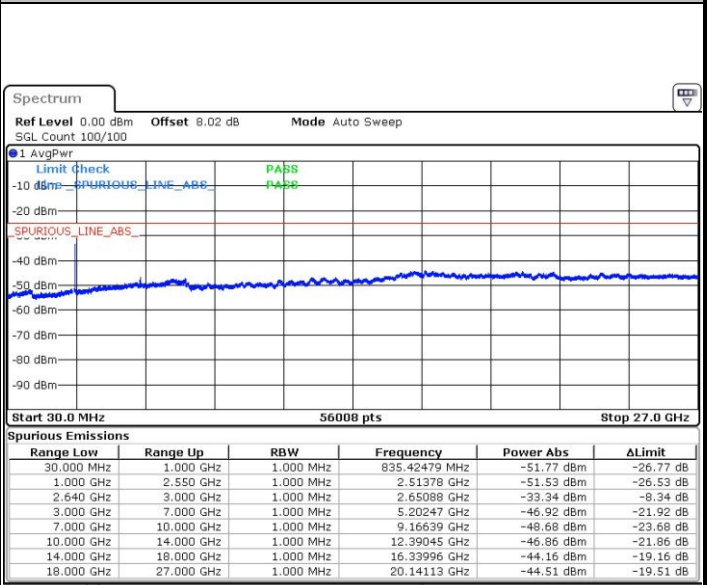
Date: 17.MAR.2017 13:13:52

Highest Channel / QPSK



Date: 17.MAR.2017 13:15:52

Highest Channel / 16QAM



Date: 17.MAR.2017 13:14:48



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 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 38 / 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)
Middle	5184	-62.93	-25	-37.93	-72.15	-69.49	2.41	8.97	H
	7778	-54.49	-25	-29.49	-68.19	-63.49	2.86	11.86	H
	10371	-57.22	-25	-32.22	-75.57	-66.12	3.21	12.11	H
	5184	-61.79	-25	-36.79	-70.5	-68.35	2.41	8.97	V
	7778	-57.41	-25	-32.41	-72.04	-66.41	2.86	11.86	V
	10371	-56.39	-25	-31.39	-75.79	-65.29	3.21	12.11	V

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

LTE Band 38 / 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)
Middle	5180	-59.67	-25	-34.67	-68.89	-66.23	2.41	8.97	H
	7772	-57.53	-25	-32.53	-71.23	-66.53	2.86	11.86	H
	10362	-57.77	-25	-32.77	-76.12	-66.67	3.21	12.11	H
	5180	-61.77	-25	-36.77	-70.48	-68.33	2.41	8.97	V
	7772	-51.45	-25	-26.45	-66.08	-60.45	2.86	11.86	V
	10362	-55.52	-25	-30.52	-74.92	-64.42	3.21	12.11	V

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



LTE Band 38 / 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)
Middle	5176	-60.74	-25	-35.74	-69.96	-67.30	2.41	8.97	H
	7765	-50.99	-25	-25.99	-64.69	-59.99	2.86	11.86	H
	10353	-57.26	-25	-32.26	-75.61	-66.16	3.21	12.11	H
	5176	-59.01	-25	-34.01	-67.72	-65.57	2.41	8.97	V
	7765	-50.22	-25	-25.22	-64.85	-59.22	2.86	11.86	V
	10353	-55.60	-25	-30.60	-75	-64.50	3.21	12.11	V

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

LTE Band 38 / 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)
Middle	5172	-63.41	-25	-38.41	-72.63	-69.97	2.41	8.97	H
	7758	-52.87	-25	-27.87	-66.57	-61.87	2.86	11.86	H
	10344	-57.10	-25	-32.10	-75.45	-66.00	3.21	12.11	H
	5172	-62.71	-25	-37.71	-71.42	-69.27	2.41	8.97	V
	7758	-57.08	-25	-32.08	-71.71	-66.08	2.86	11.86	V
	10344	-56.62	-25	-31.62	-76.02	-65.52	3.21	12.11	V

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



Appendix D. Reference Report

Please refer to Sporton report number FG730825-02B which is issued separately.