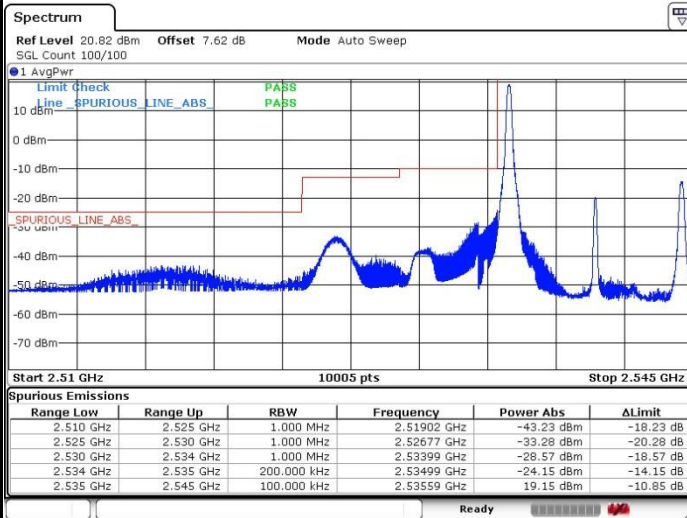




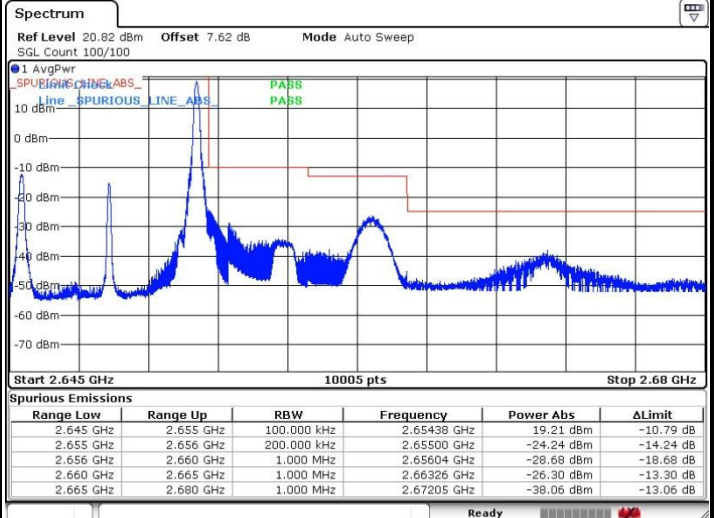
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



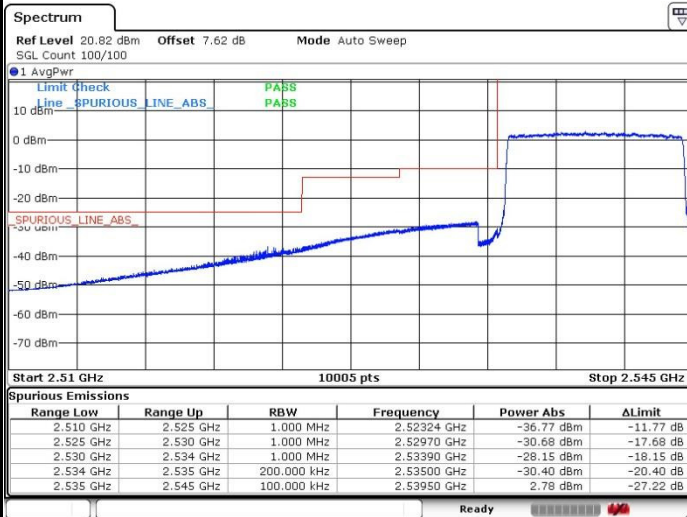
Date: 30 DEC 2017 14:01:42

Highest Band Edge / 1 RB



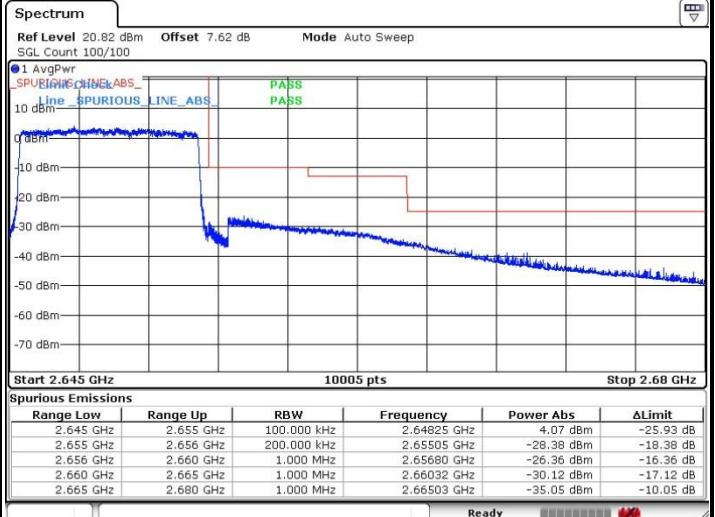
Date: 2 JAN 2018 17:54:08

Lowest Band Edge / Full RB



Date: 30 DEC 2017 14:03:25

Highest Band Edge / Full RB

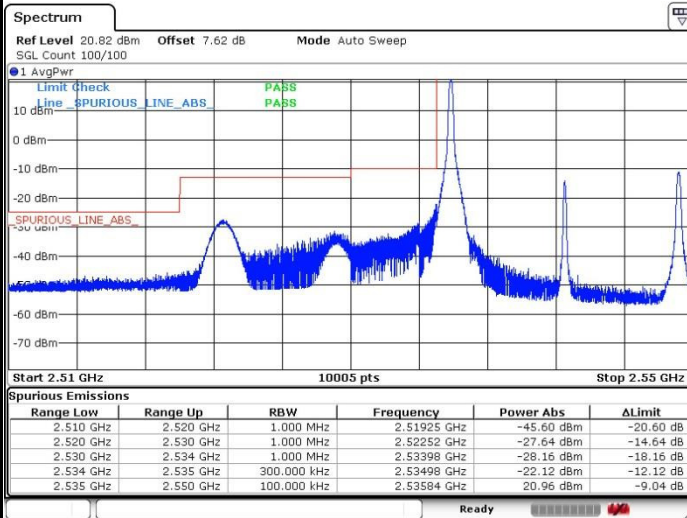


Date: 2 JAN 2018 17:57:09



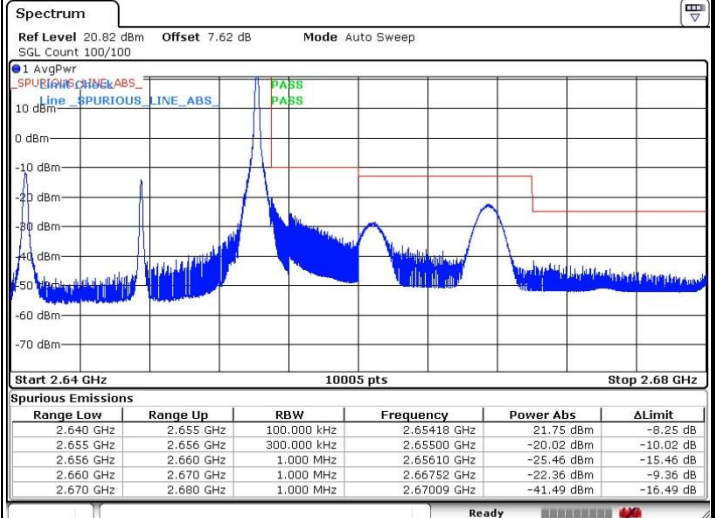
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



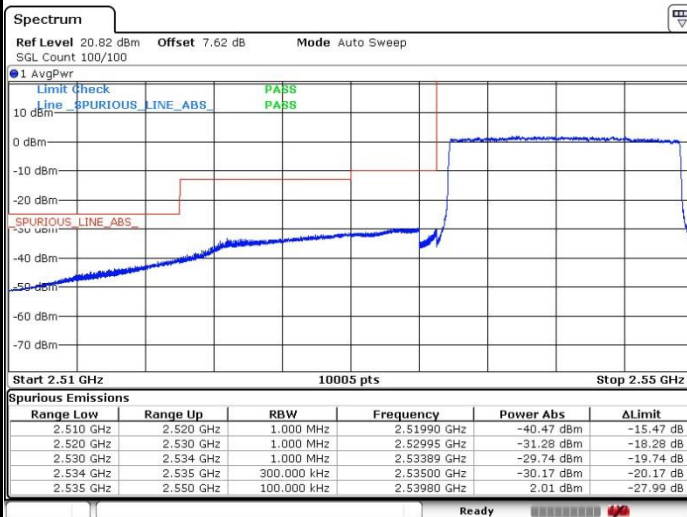
Date: 30 DEC 2017 14:21:19

Highest Band Edge / 1 RB



Date: 2 JAN 2018 18:18:09

Lowest Band Edge / Full RB



Date: 30 DEC 2017 14:26:44

Highest Band Edge / Full RB

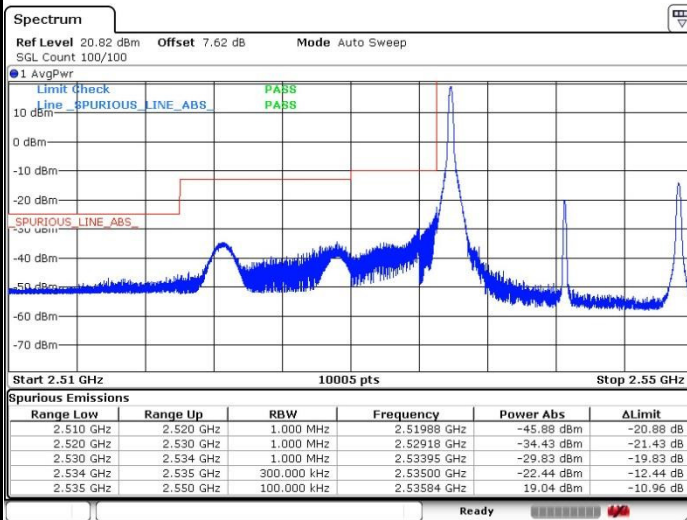


Date: 2 JAN 2018 18:14:47



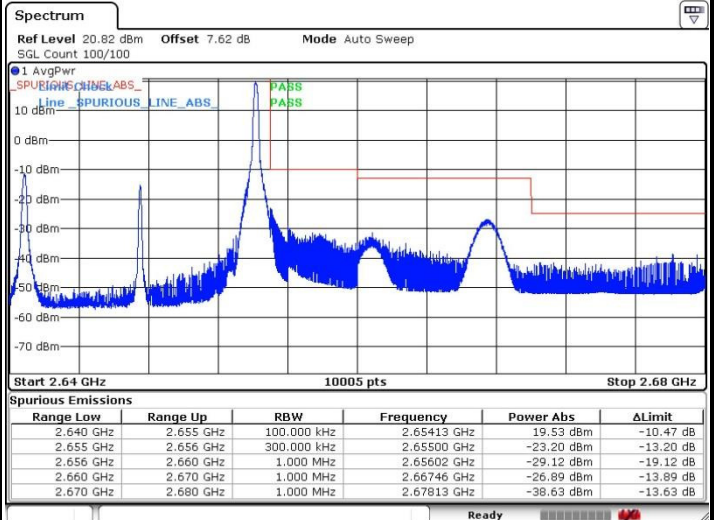
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



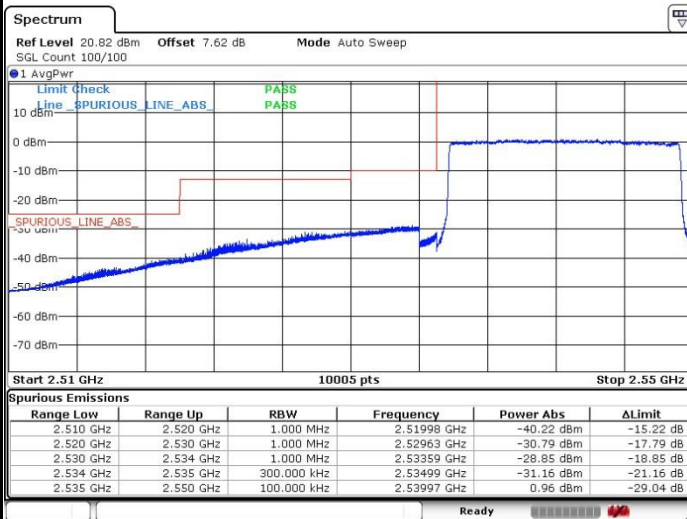
Date: 30 DEC 2017 14:23:22

Highest Band Edge / 1 RB



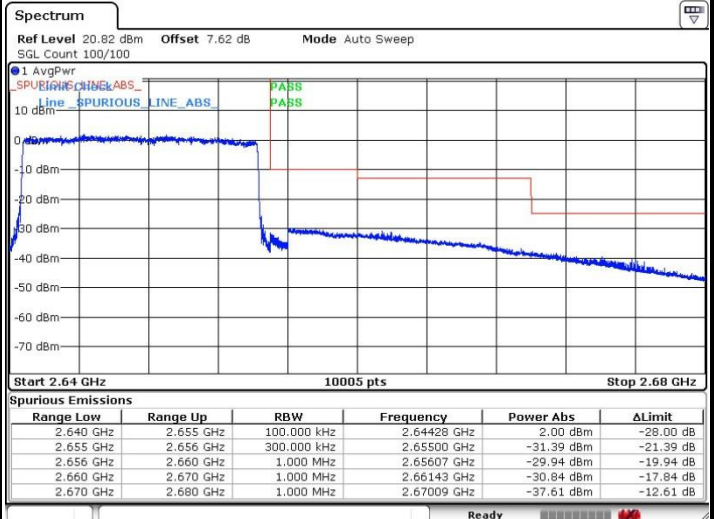
Date: 2 JAN 2018 18:16:48

Lowest Band Edge / Full RB



Date: 30 DEC 2017 14:25:09

Highest Band Edge / Full RB



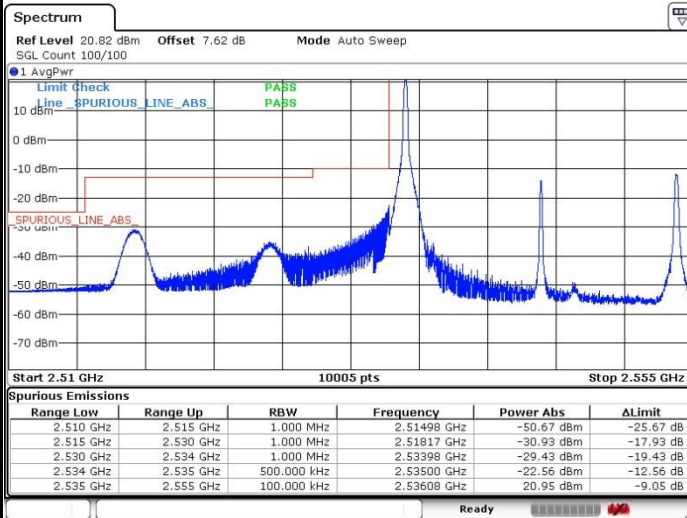
Date: 2 JAN 2018 18:15:33



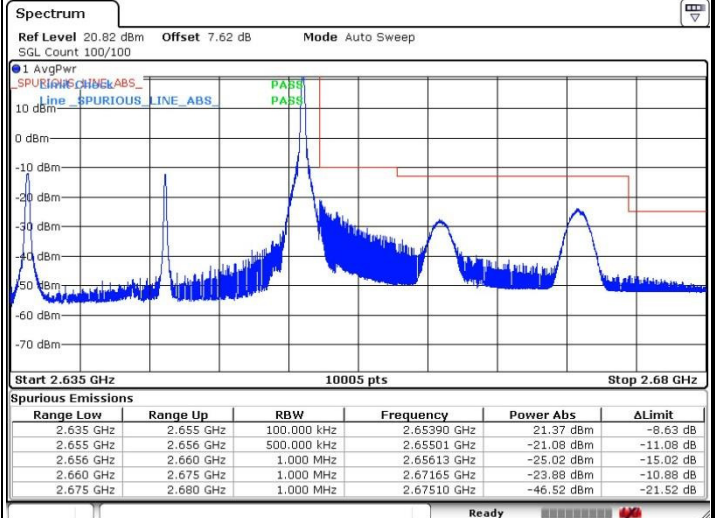
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



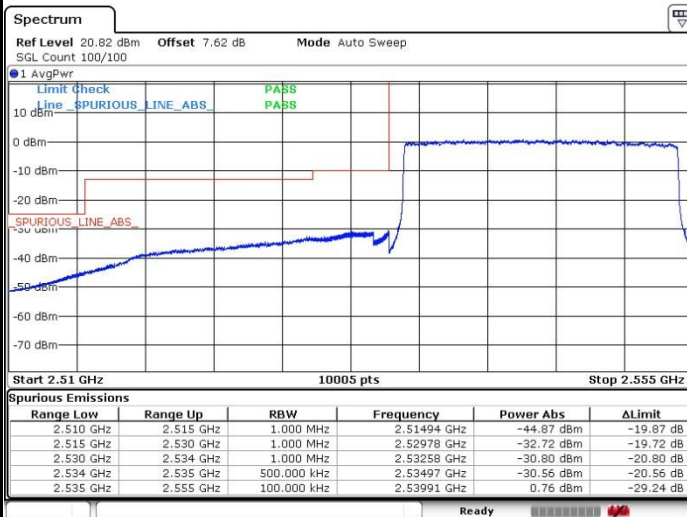
Date: 30 DEC 2017 15:04:43



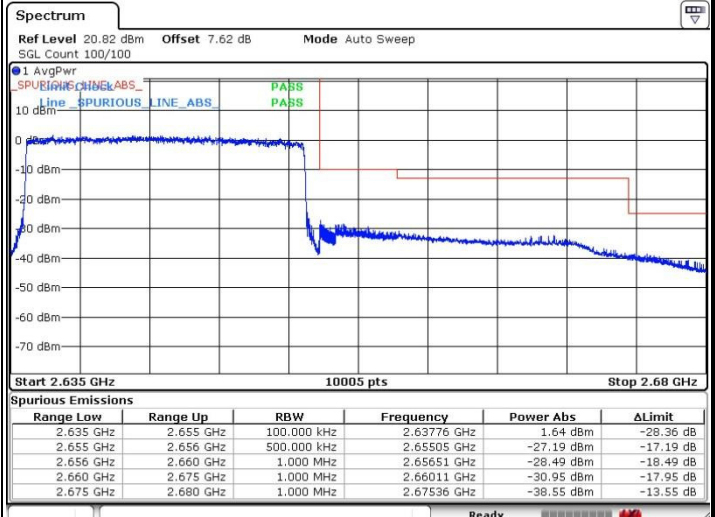
Date: 2 JAN 2018 18:25:29

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30 DEC 2017 15:09:09

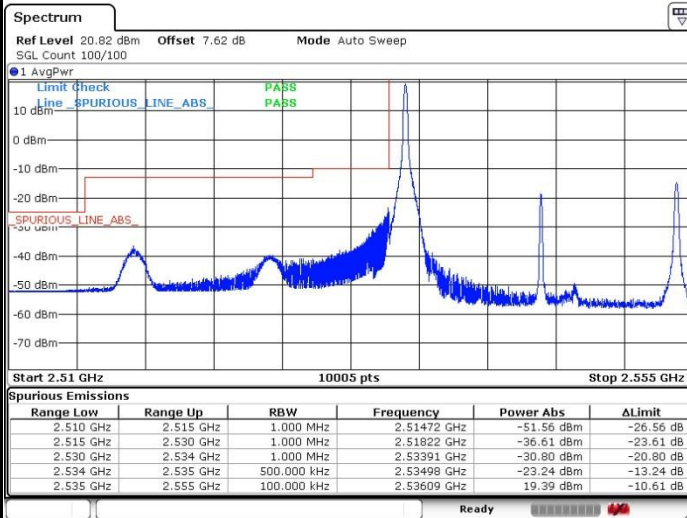


Date: 2 JAN 2018 18:22:46



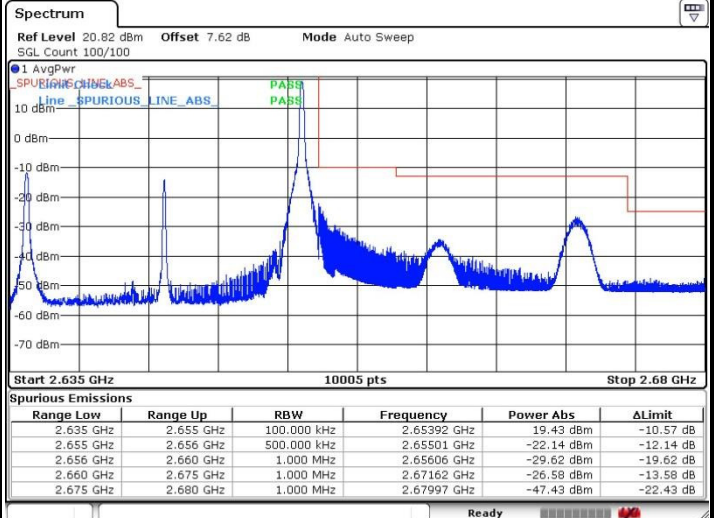
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



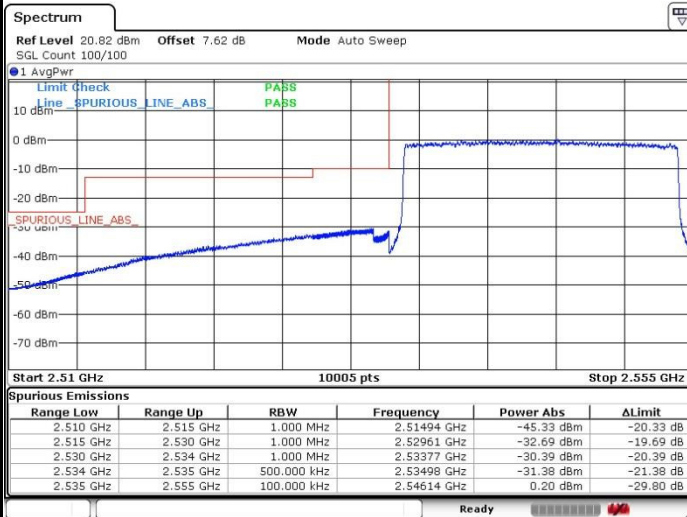
Date: 30 DEC 2017 15:06:21

Highest Band Edge / 1 RB



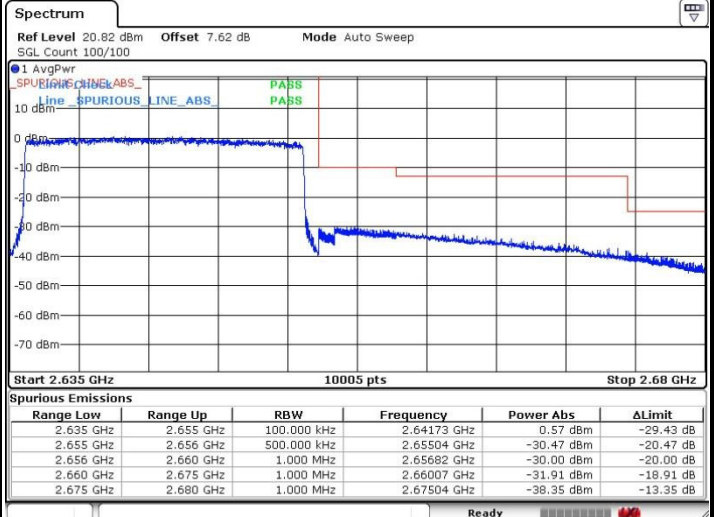
Date: 2 JAN 2018 18:24:41

Lowest Band Edge / Full RB



Date: 30 DEC 2017 15:07:43

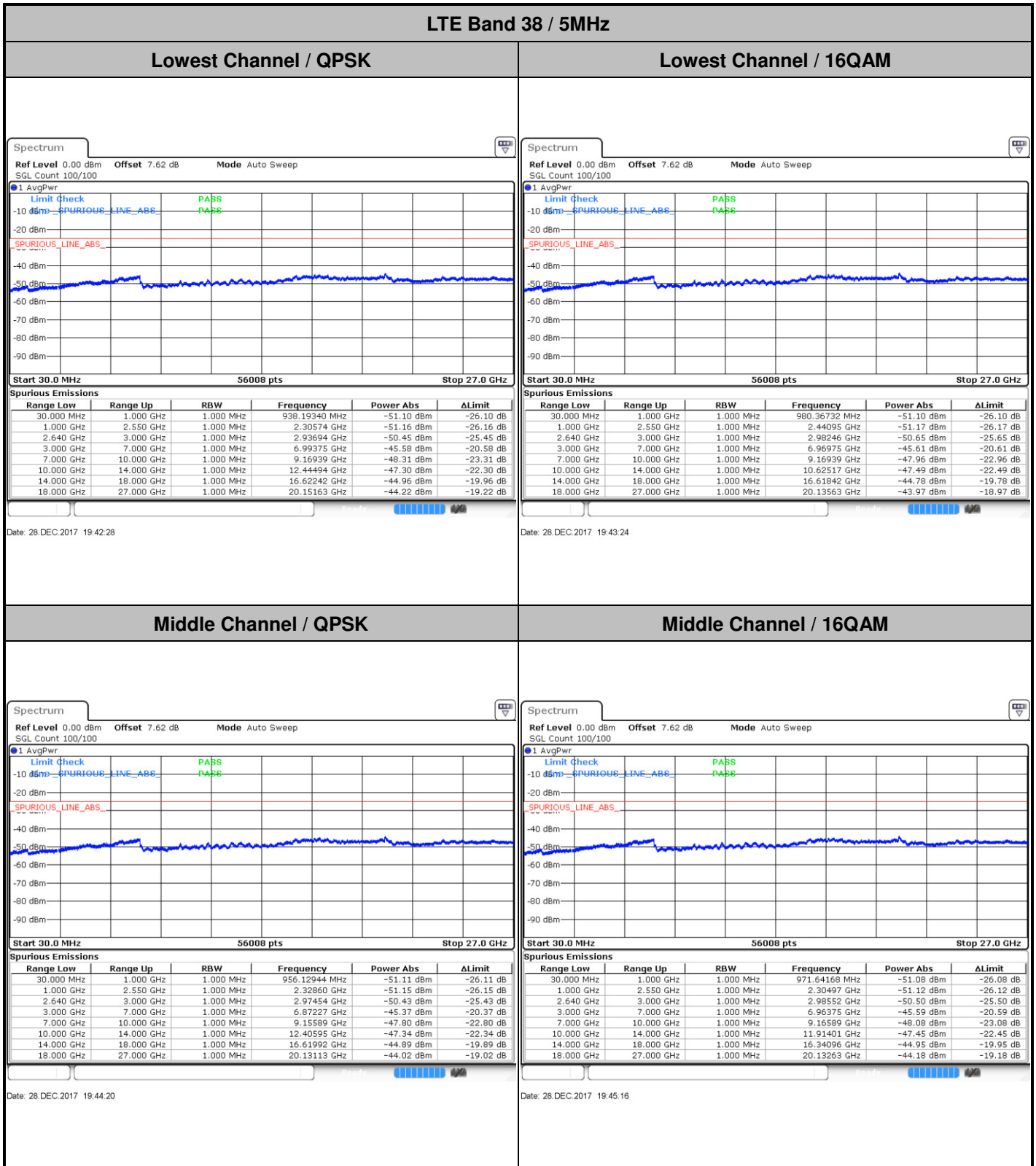
Highest Band Edge / Full RB



Date: 2 JAN 2018 18:23:26



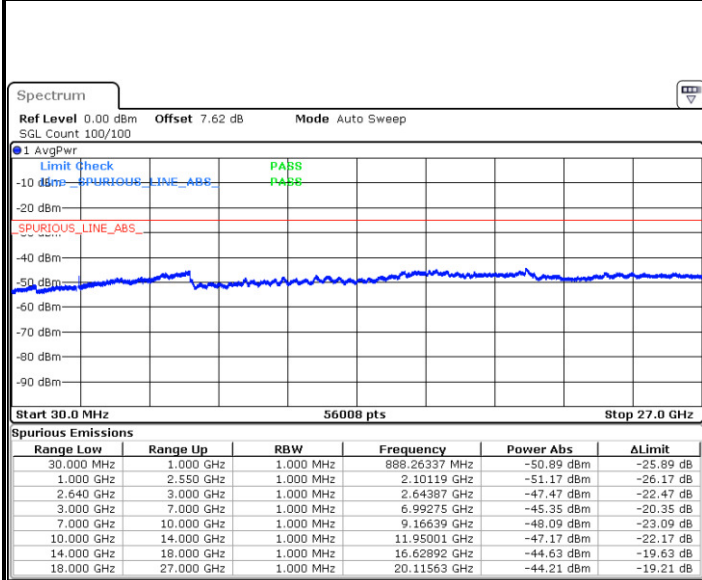
Conducted Spurious Emission





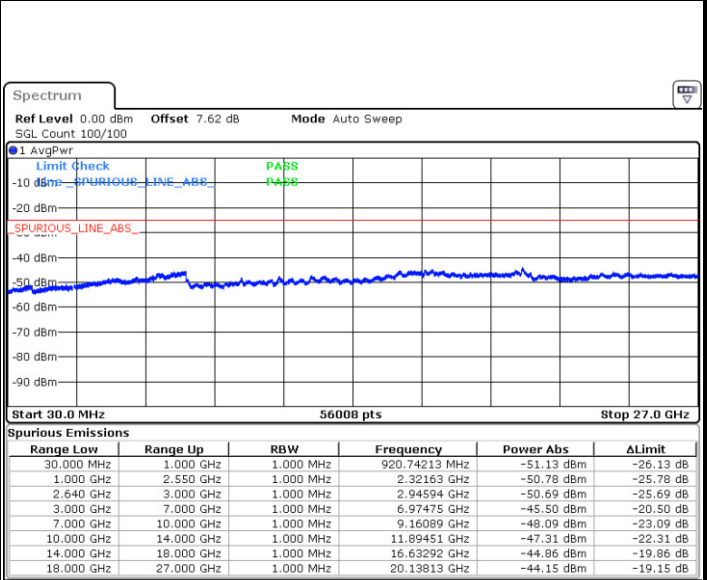
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 28 DEC 2017 19:46:11

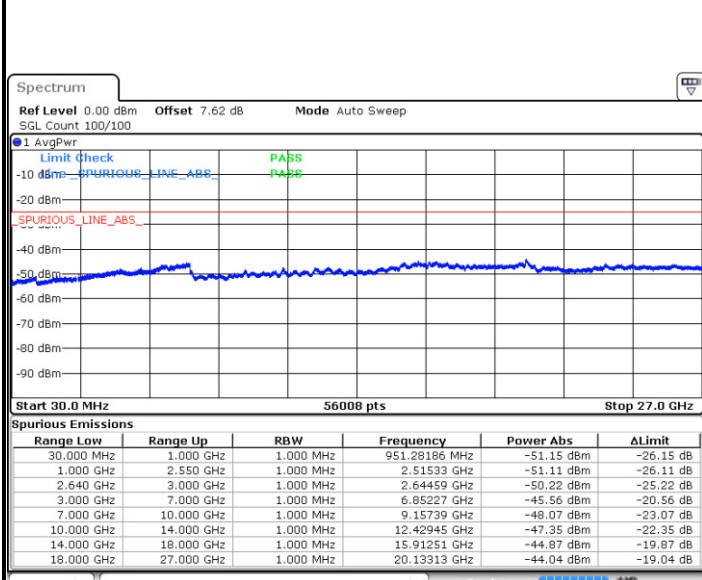
Highest Channel / 16QAM



Date: 28 DEC 2017 19:47:07

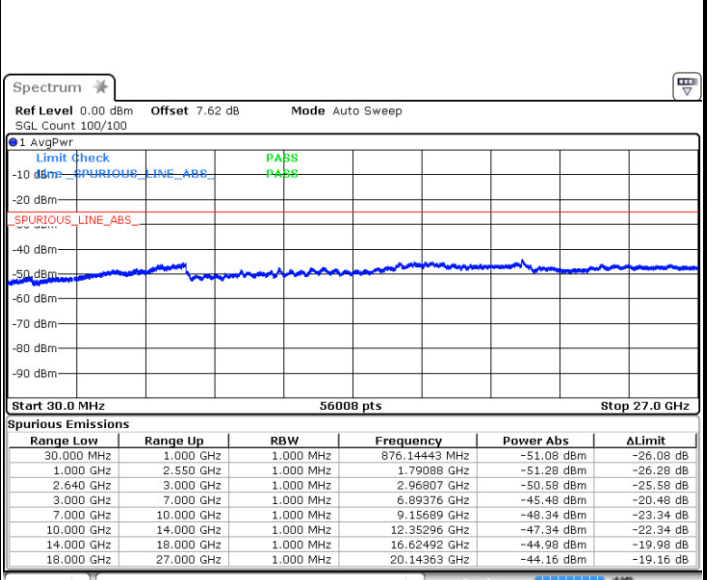
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 28 DEC 2017 19:48:03

Lowest Channel / 16QAM



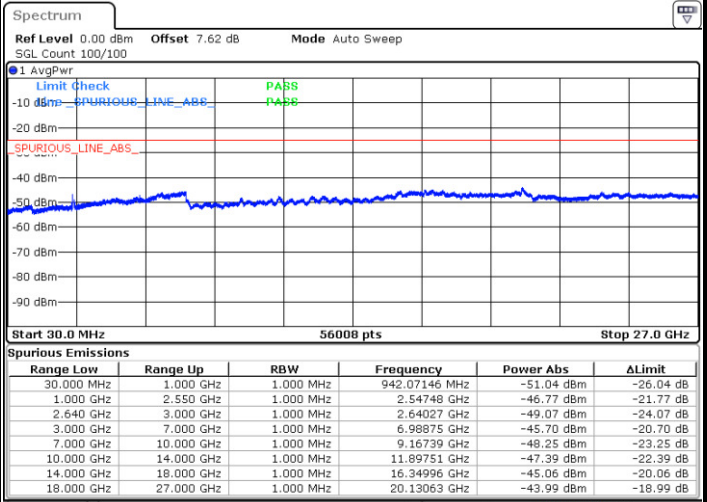
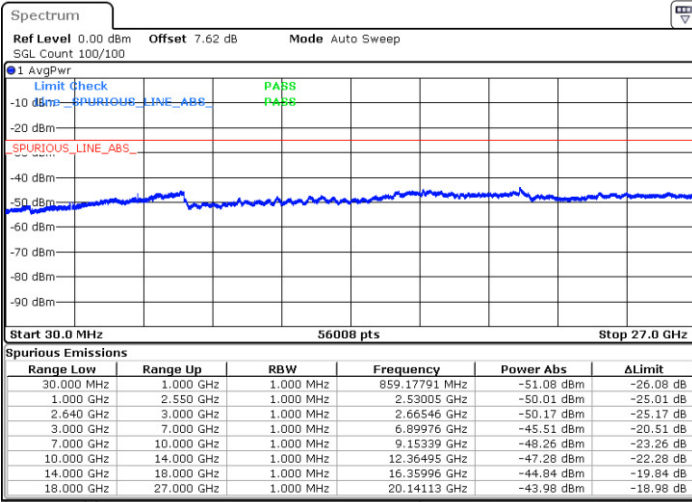
Date: 28 DEC 2017 20:11:06



LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

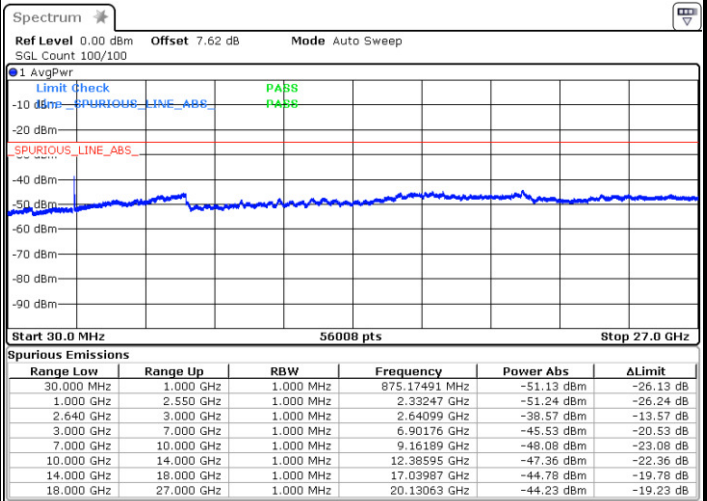
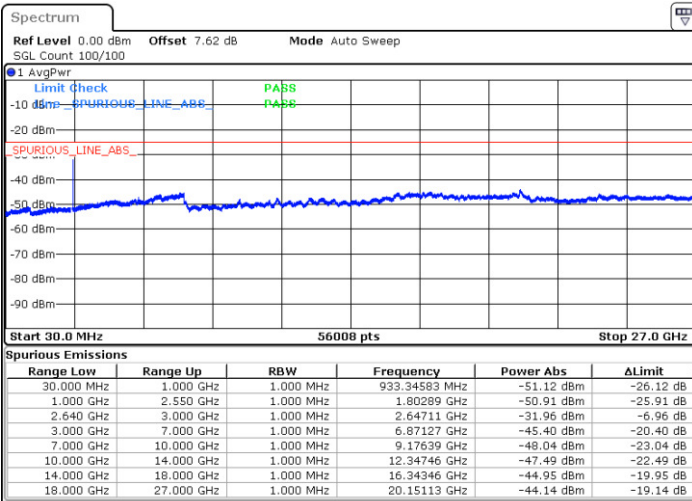


Date: 28 DEC.2017 19:49:54

Date: 28 DEC.2017 19:50:50

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 28 DEC.2017 19:51:45

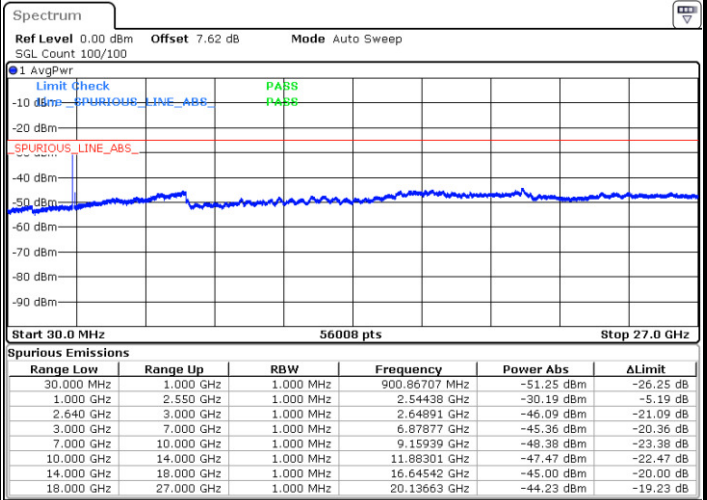
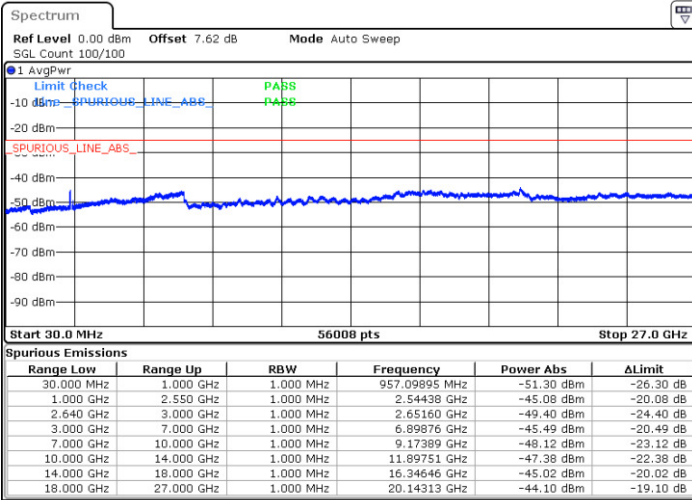
Date: 28 DEC.2017 20:13:52



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

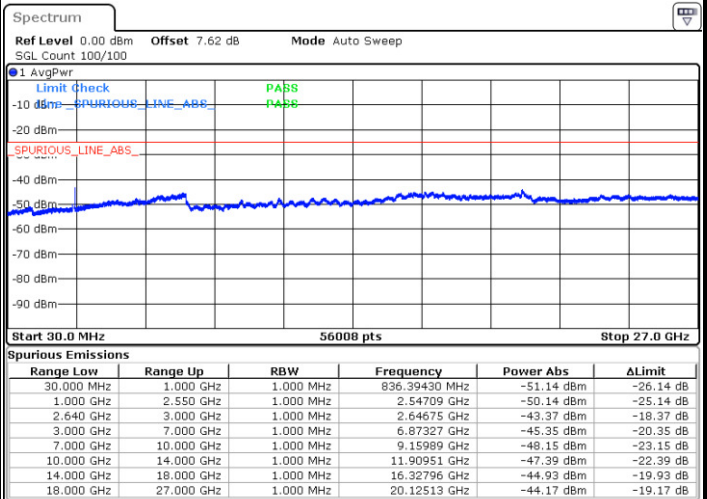
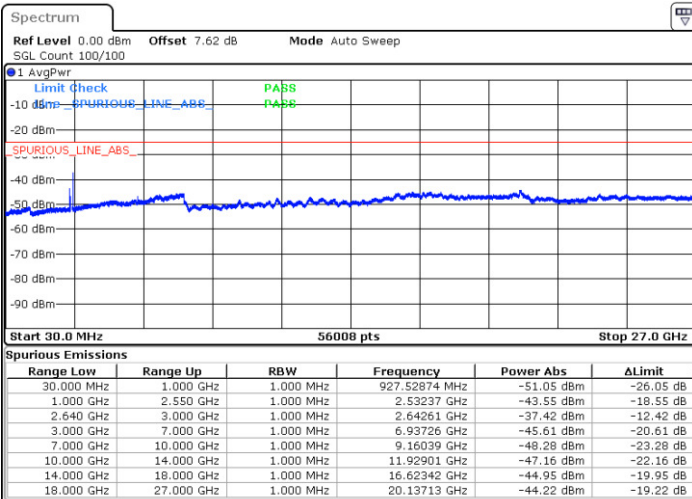


Date: 28 DEC.2017 19:53:37

Date: 28 DEC.2017 19:54:33

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 28 DEC.2017 19:55:28

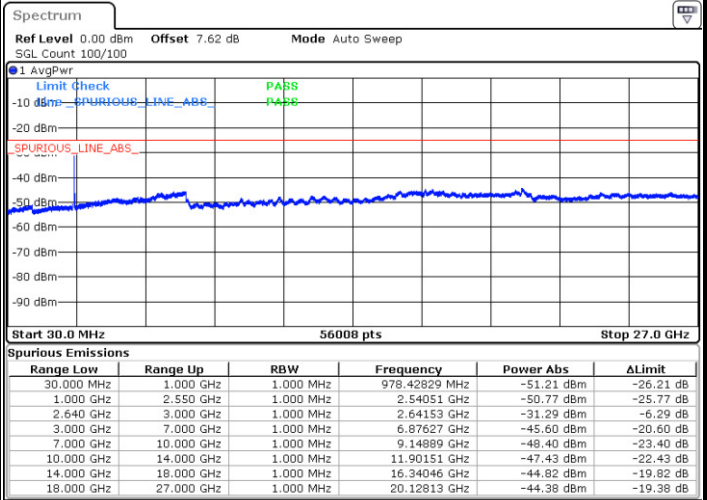
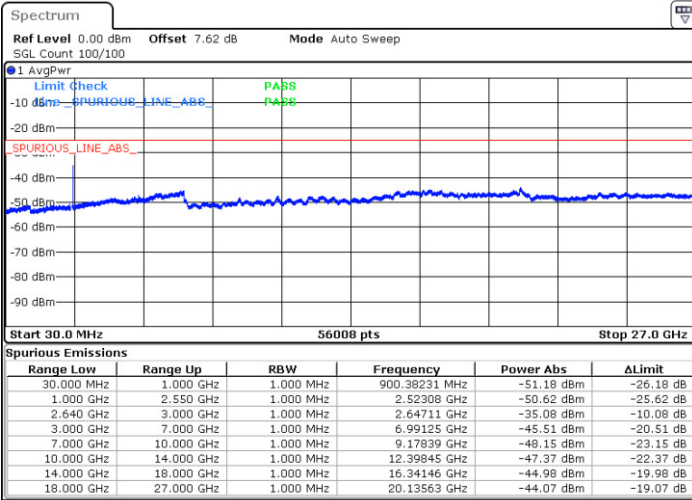
Date: 28 DEC.2017 19:56:24



LTE Band 38 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



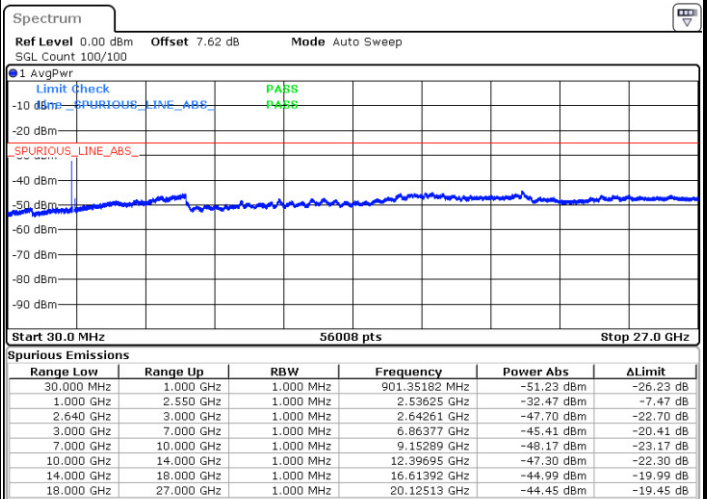
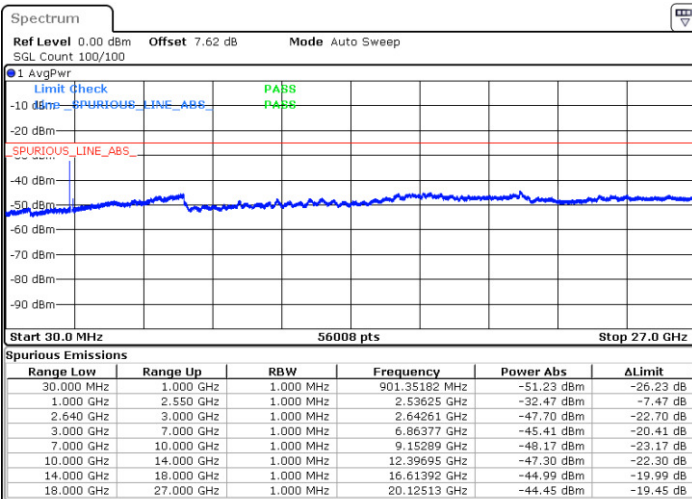
Date: 28 DEC 2017 19:57:20

Date: 28 DEC 2017 20:22:00

LTE Band 38 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 28 DEC 2017 20:15:17

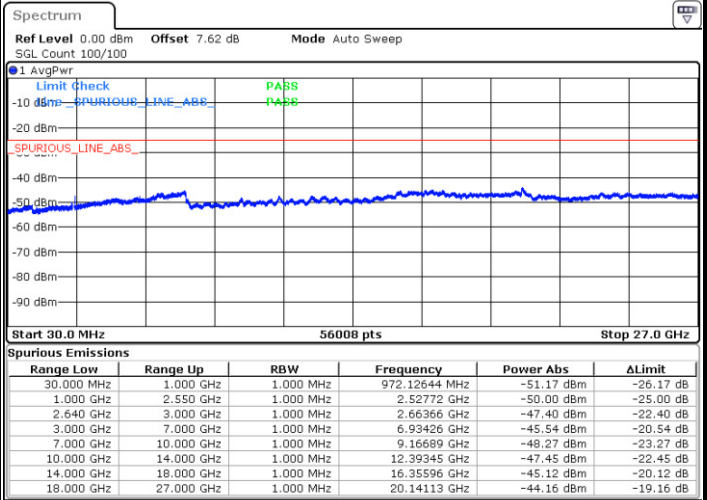
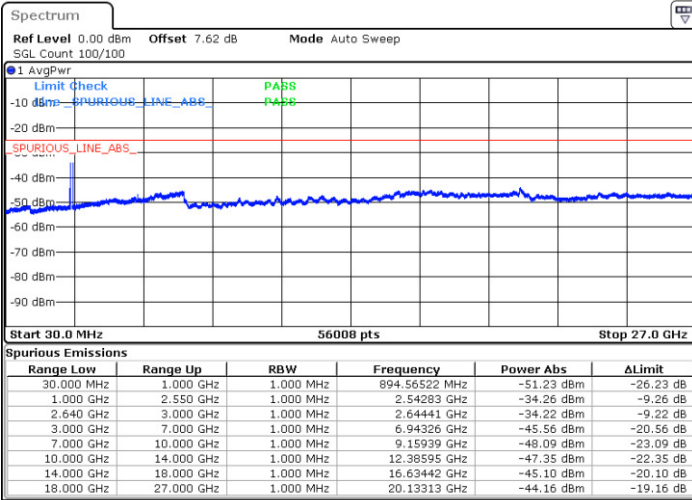
Date: 28 DEC 2017 20:15:17



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

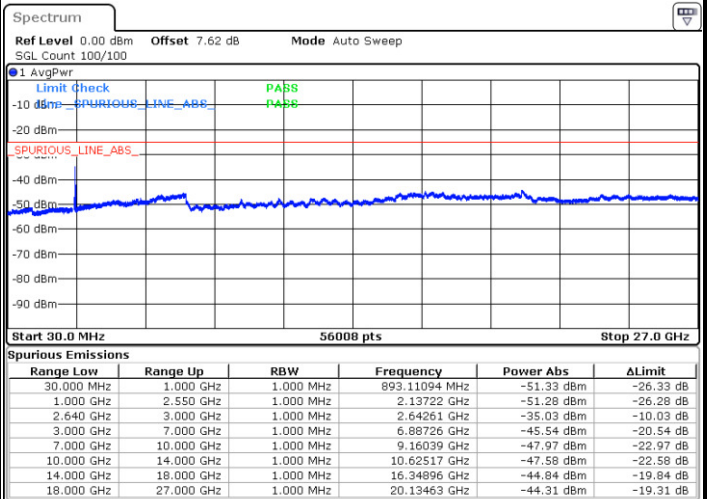
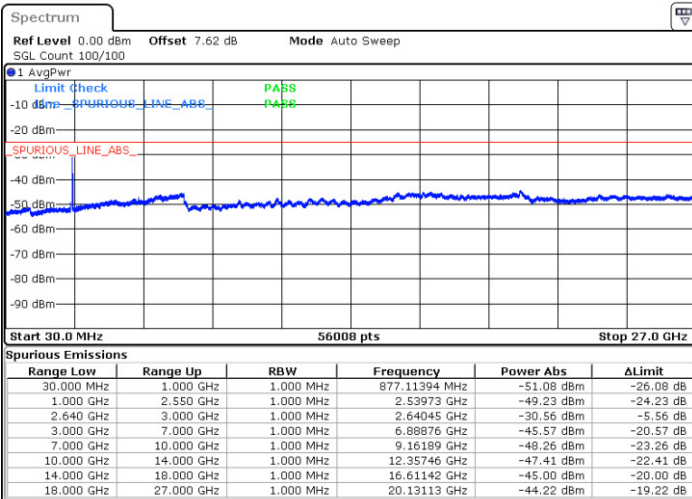


Date: 28 DEC.2017 20:17:17

Date: 28 DEC.2017 20:18:13

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 28 DEC.2017 20:19:09

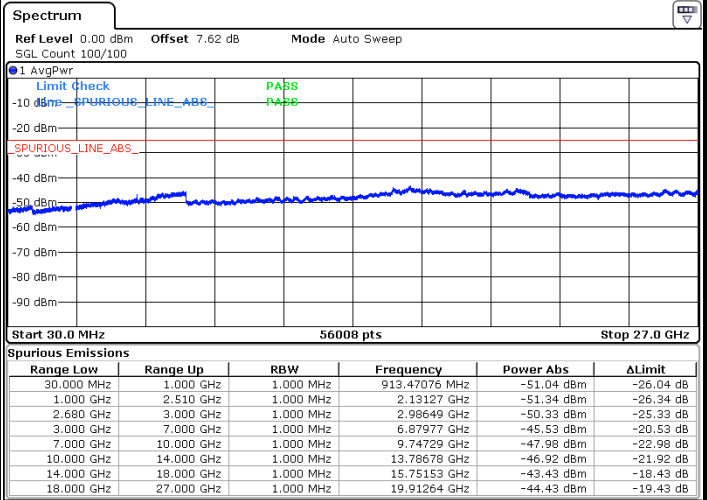
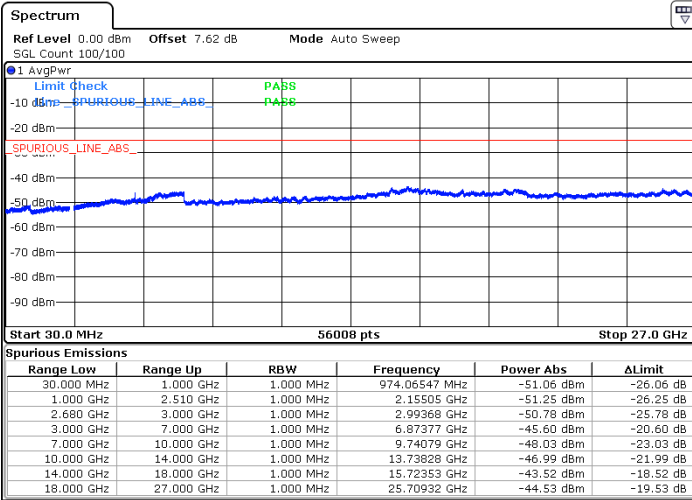
Date: 28 DEC.2017 20:20:04



LTE Band 41 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

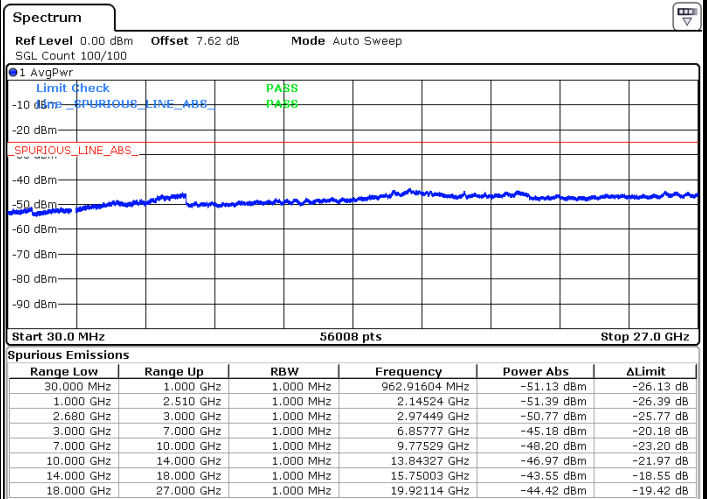
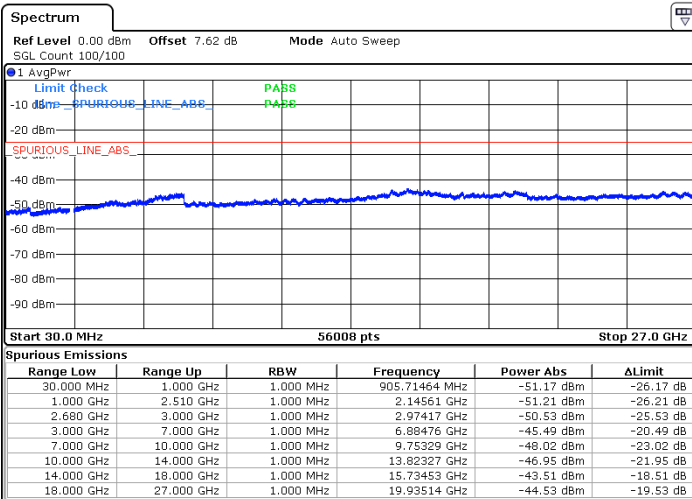


Date: 25 JAN 2018 19:04:59

Date: 25 JAN 2018 19:06:08

Middle Channel / QPSK

Middle Channel / 16QAM



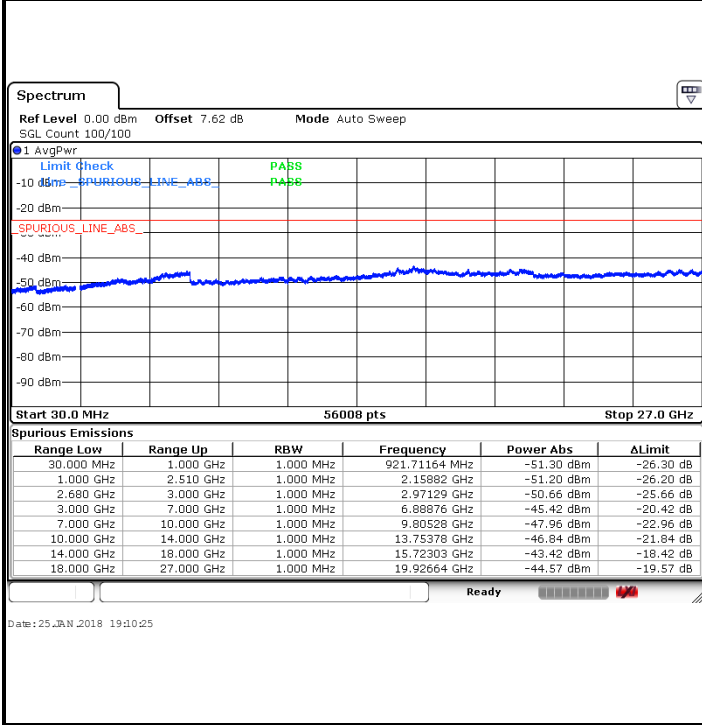
Date: 25 JAN 2018 19:08:25

Date: 25 JAN 2018 19:07:18

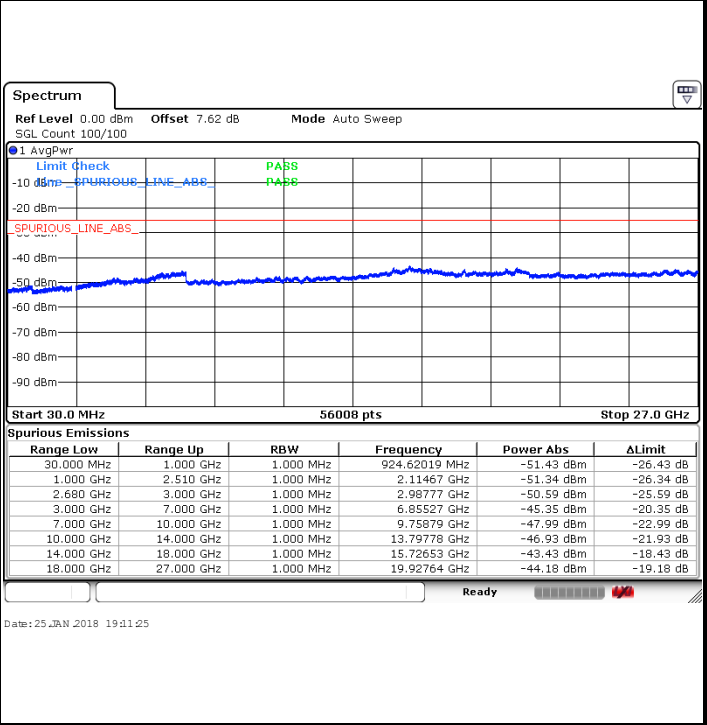


LTE Band 41 / 5MHz

Highest Channel / QPSK

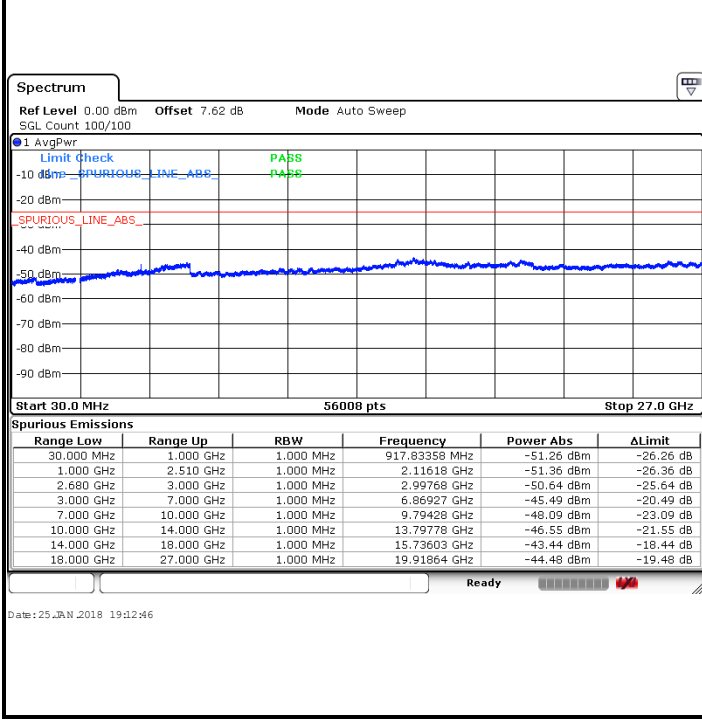


Highest Channel / 16QAM

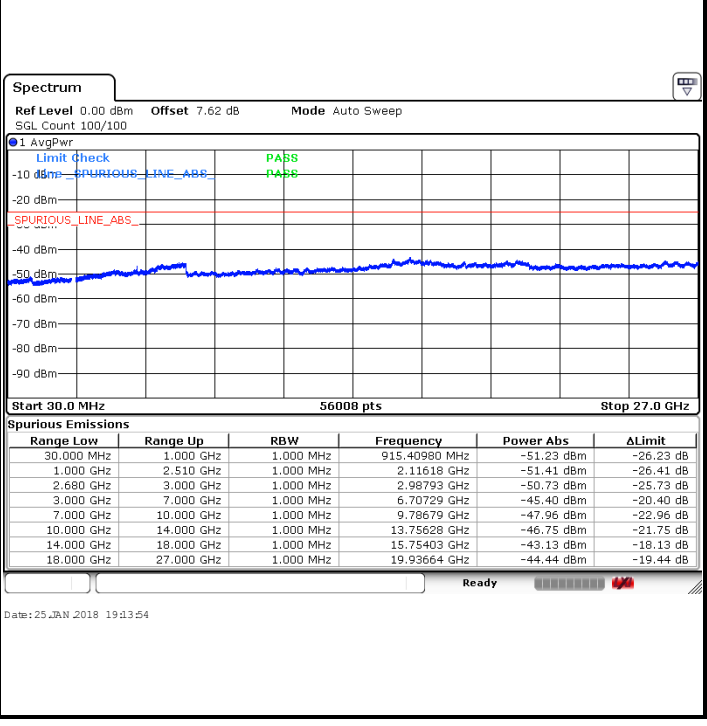


LTE Band 41 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

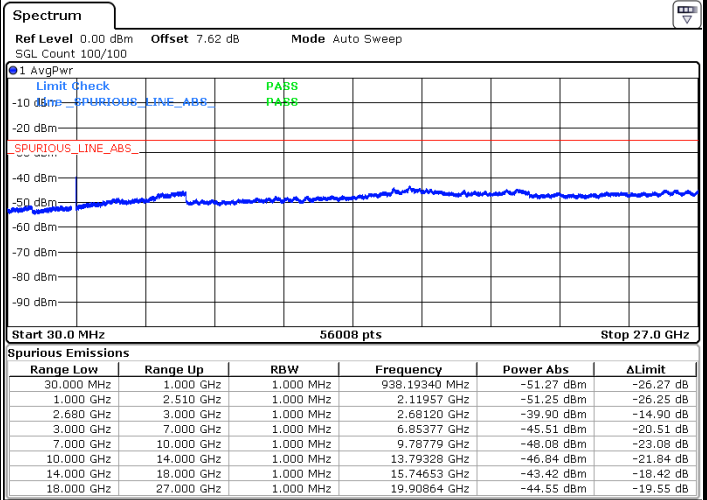
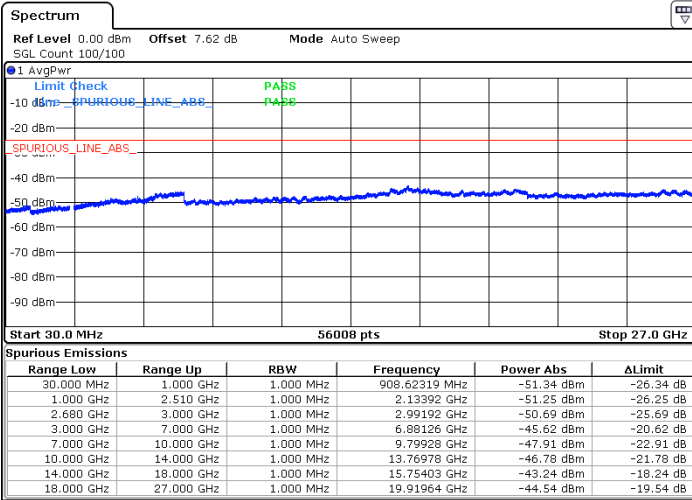




LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

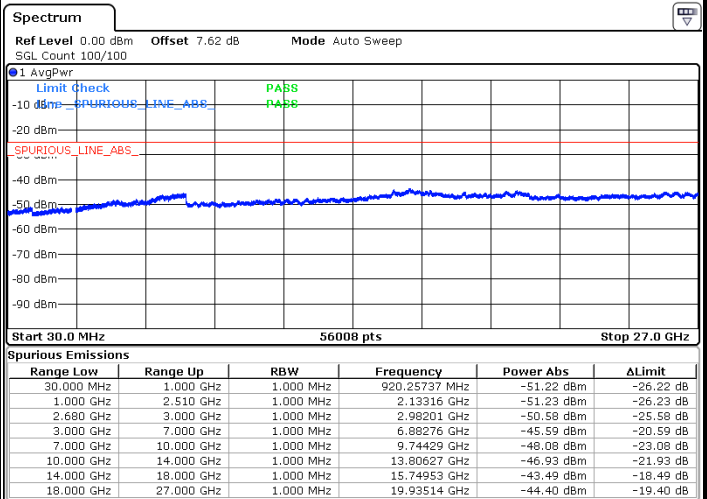
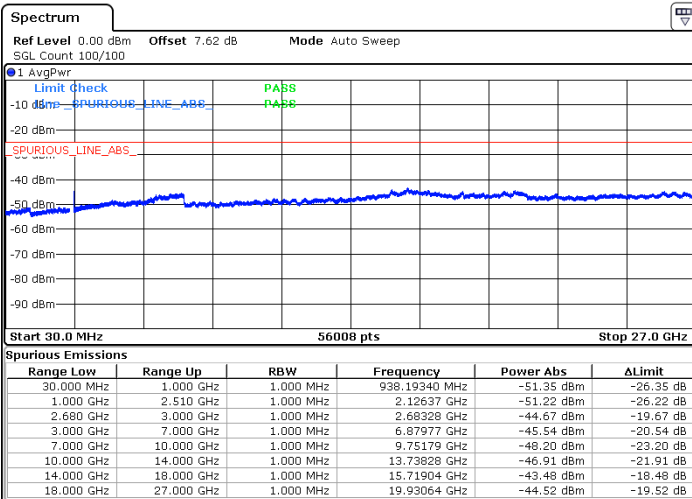


Date: 25 JAN 2018 19:15:03

Date: 25 JAN 2018 19:18:14

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25 JAN 2018 19:19:15

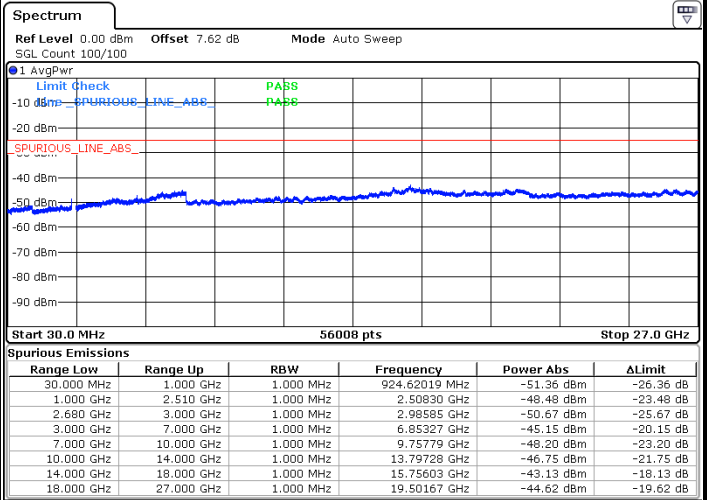
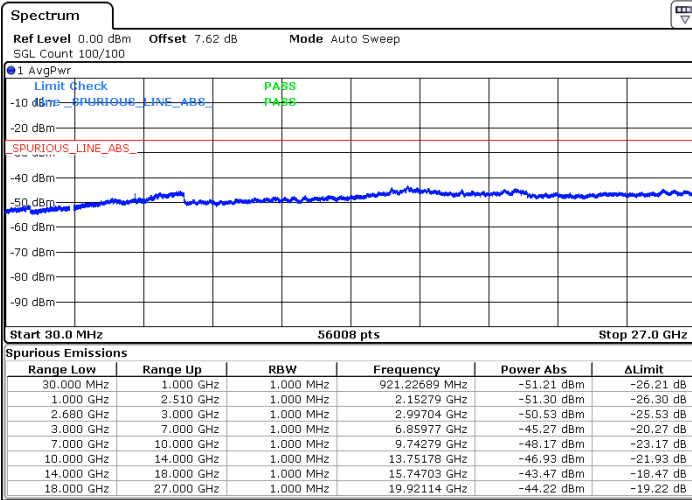
Date: 25 JAN 2018 19:20:29



LTE Band 41 / 15MHz

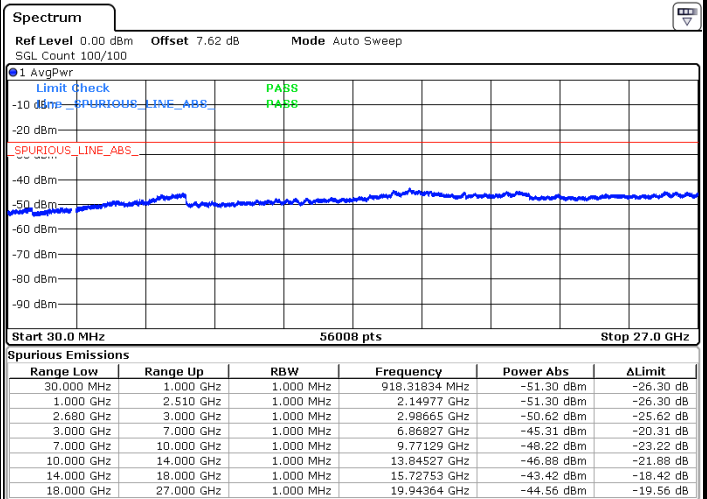
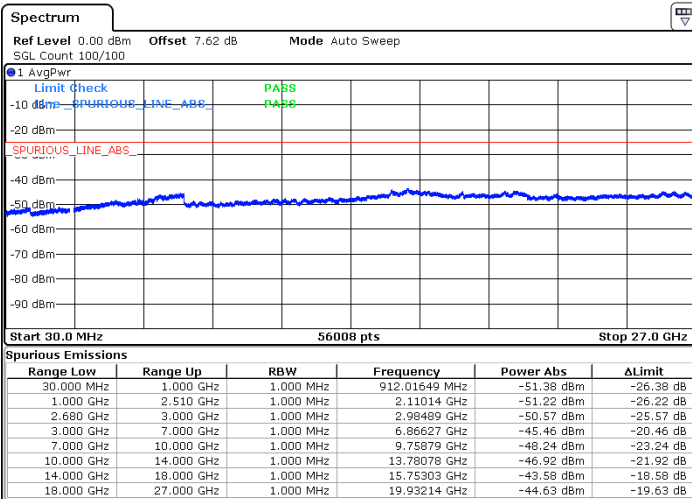
Lowest Channel / QPSK

Lowest Channel / 16QAM



Middle Channel / QPSK

Middle Channel / 16QAM

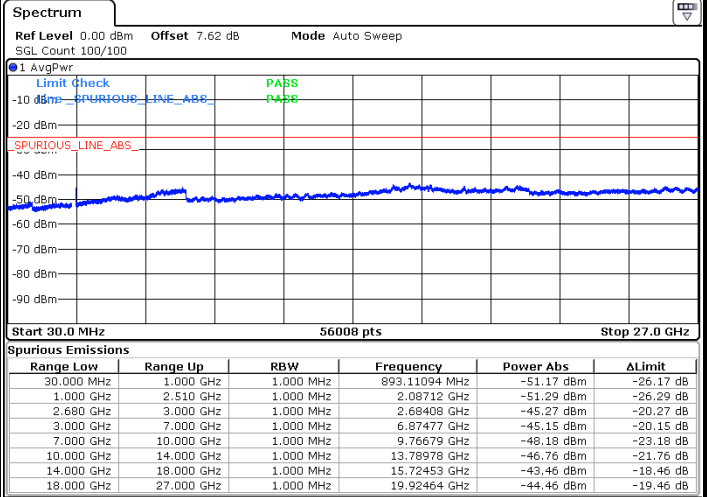
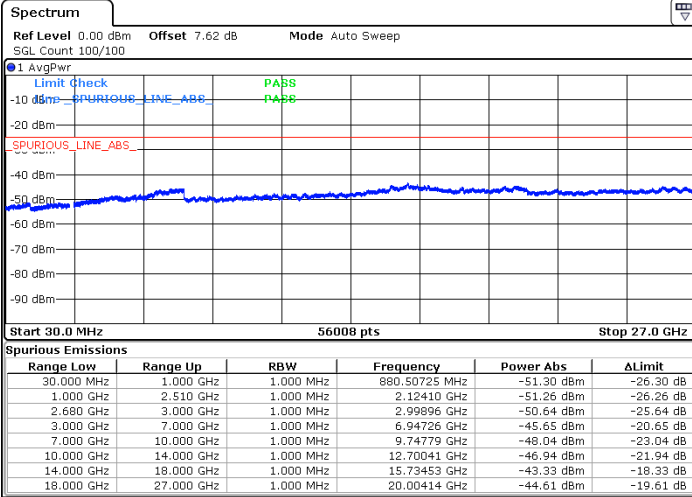




LTE Band 41 / 15MHz

Highest Channel / QPSK

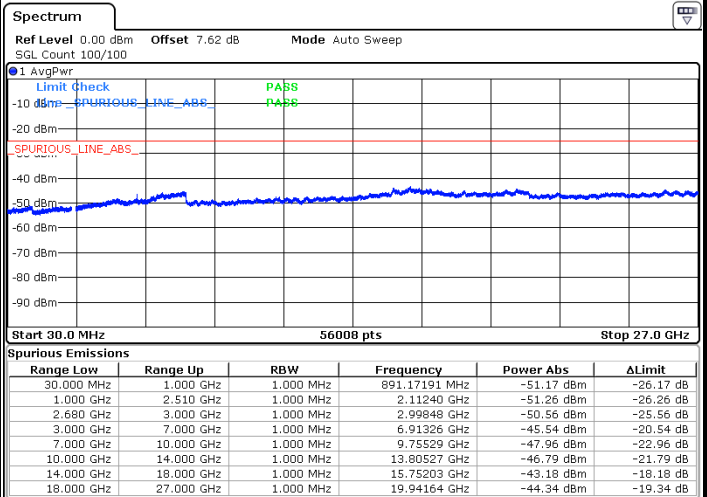
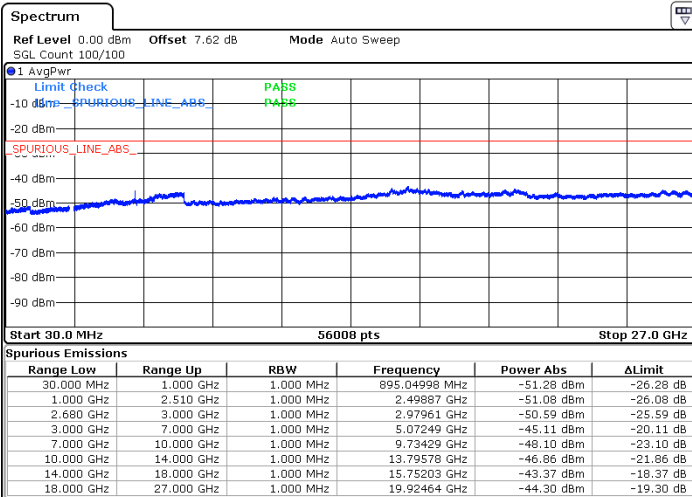
Highest Channel / 16QAM



LTE Band 41 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

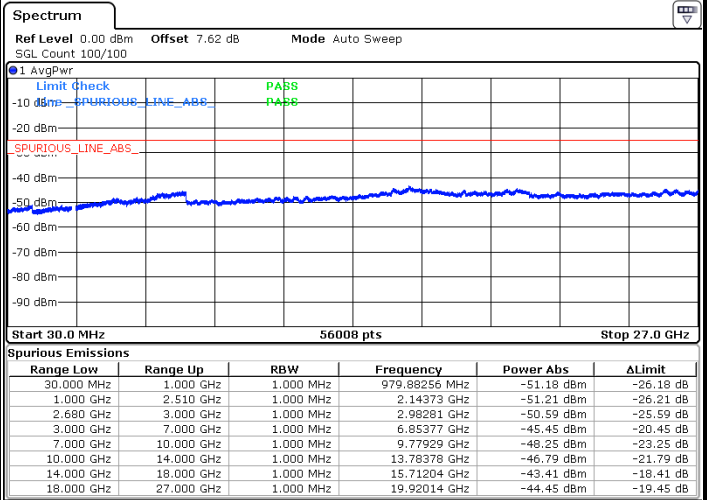
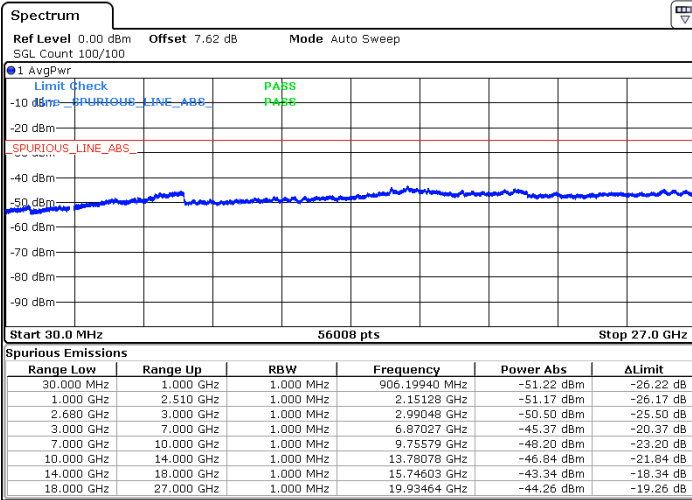




LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

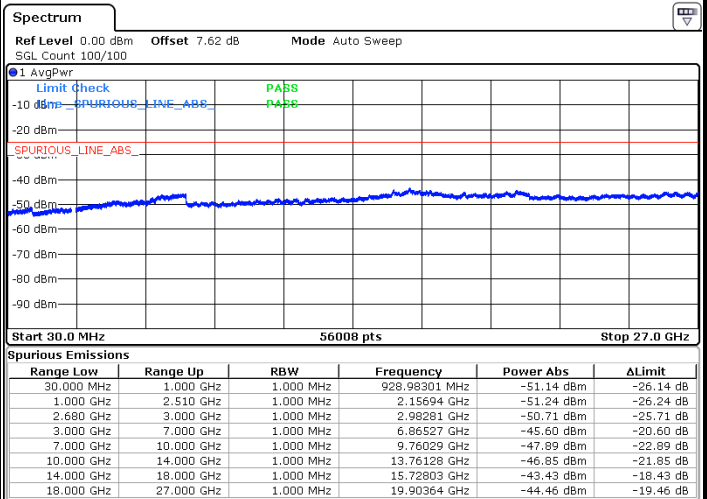
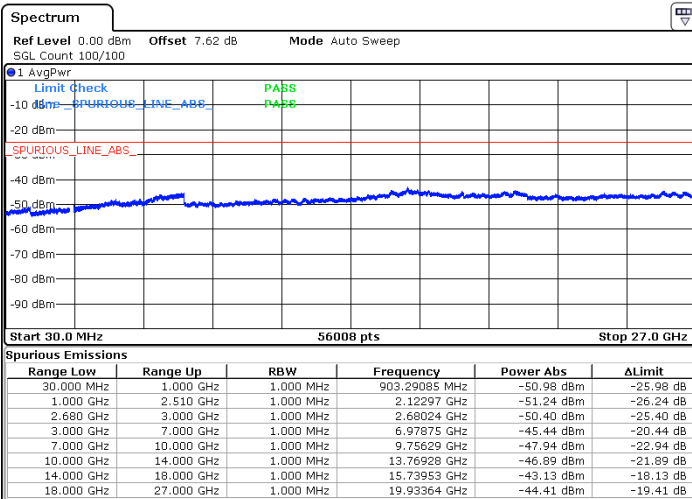


Date: 25 JAN 2018 19:36:23

Date: 25 JAN 2018 19:35:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25 JAN 2018 19:37:33

Date: 25 JAN 2018 19:38:33



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	0.0005	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0015	

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.



Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0019	
20	Battery End Point	0.0021	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V.
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	5185	-61.76	-25	-36.76	-79.32	-71.61	2.28	12.14	H
	7781	-49.15	-25	-24.15	-70.4	-58.05	2.11	11.01	H
	10370	-51.07	-25	-26.07	-77.31	-60.63	2.38	11.95	H
	5185	-61.60	-25	-36.60	-79.4	-71.45	2.28	12.14	V
	7781	-48.50	-25	-23.50	-69.98	-57.40	2.11	11.01	V
	10370	-50.89	-25	-25.89	-77.2	-60.45	2.38	11.95	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	5181	-61.78	-25	-36.78	-79.34	-71.63	2.29	12.14	H
	7774	-51.08	-25	-26.08	-72.29	-59.95	2.11	10.99	H
	10361	-51.03	-25	-26.03	-77.27	-60.60	2.37	11.94	H
	5181	-61.53	-25	-36.53	-79.33	-71.38	2.29	12.14	V
	7774	-48.38	-25	-23.38	-69.77	-57.25	2.11	10.99	V
	10361	-50.86	-25	-25.86	-77.17	-60.43	2.37	11.94	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	5178	-60.84	-25	-35.84	-78.4	-70.69	2.29	12.14	H
	7764	-43.36	-25	-18.36	-64.57	-52.20	2.11	10.95	H
	10350	-49.63	-25	-24.63	-75.87	-59.22	2.35	11.94	H
	5178	-60.76	-25	-35.76	-78.56	-70.61	2.29	12.14	V
	7764	-42.70	-25	-17.70	-64.1	-51.54	2.11	10.95	V
	10350	-48.73	-25	-23.73	-75	-58.32	2.35	11.94	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	-60.10	-25	-35.10	-77.71	-69.94	2.29	12.13	H
	7758	-43.03	-25	-18.03	-64.25	-51.85	2.11	10.93	H
	10341	-49.75	-25	-24.75	-75.99	-59.35	2.34	11.94	H
	5172	-59.36	-25	-34.36	-77.2	-69.20	2.29	12.13	V
	7758	-42.21	-25	-17.21	-63.61	-51.03	2.11	10.93	V
	10341	-48.44	-25	-23.44	-74.68	-58.04	2.34	11.94	V

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

LTE Band 41 / 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	-60.48	-25	-35.48	-78.04	-70.33	2.28	12.14	H
	7770	-45.17	-25	-20.17	-66.39	-54.03	2.11	10.97	H
	10359	-49.52	-25	-24.52	-75.76	-59.10	2.37	11.94	H
	5184	-60.25	-25	-35.25	-78.05	-70.10	2.28	12.14	V
	7770	-42.45	-25	-17.45	-63.85	-51.31	2.11	10.97	V
	10359	-49.62	-25	-24.62	-75.93	-59.20	2.37	11.94	V

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

LTE Band 41 / 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	5178	-60.21	-25	-35.21	-77.77	-70.06	2.29	12.14	H
	7764	-43.55	-25	-18.55	-64.77	-52.39	2.11	10.95	H
	10350	-49.72	-25	-24.72	-75.96	-59.31	2.35	11.94	H
	5178	-59.89	-25	-34.89	-77.69	-69.74	2.29	12.14	V
	7764	-42.12	-25	-17.12	-63.52	-50.96	2.11	10.95	V
	10350	-49.63	-25	-24.63	-75.9	-59.22	2.35	11.94	V

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



LTE Band 41 / 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	5172	-59.50	-25	-34.50	-77.11	-69.34	2.29	12.13	H
	7758	-43.08	-25	-18.08	-64.3	-51.90	2.11	10.93	H
	10345	-48.85	-25	-23.85	-75.09	-58.44	2.35	11.94	H
	5172	-59.51	-25	-34.51	-77.35	-69.35	2.29	12.13	V
	7758	-41.53	-25	-16.53	-62.93	-50.35	2.11	10.93	V
	10345	-49.53	-25	-24.53	-75.77	-59.12	2.35	11.94	V

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

LTE Band 41 / 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	5166	-59.72	-25	-34.72	-77.34	-69.56	2.29	12.13	H
	7752	-44.17	-25	-19.17	-65.34	-52.96	2.11	10.91	H
	10341	-49.55	-25	-24.55	-75.79	-59.15	2.34	11.94	H
	5166	-59.25	-25	-34.25	-77.1	-69.09	2.29	12.13	V
	7752	-42.11	-25	-17.11	-63.43	-50.90	2.11	10.91	V
	10341	-48.14	-25	-23.14	-74.38	-57.74	2.34	11.94	V

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