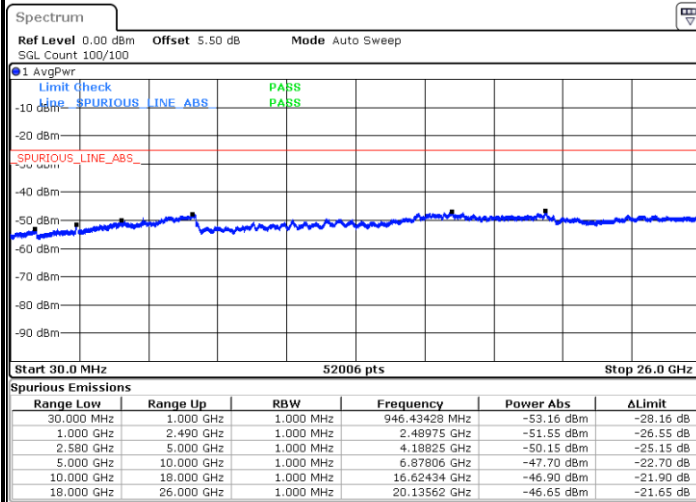




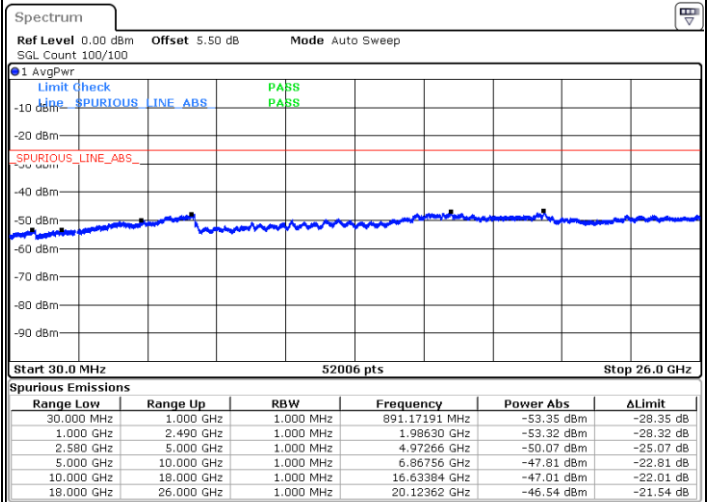
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



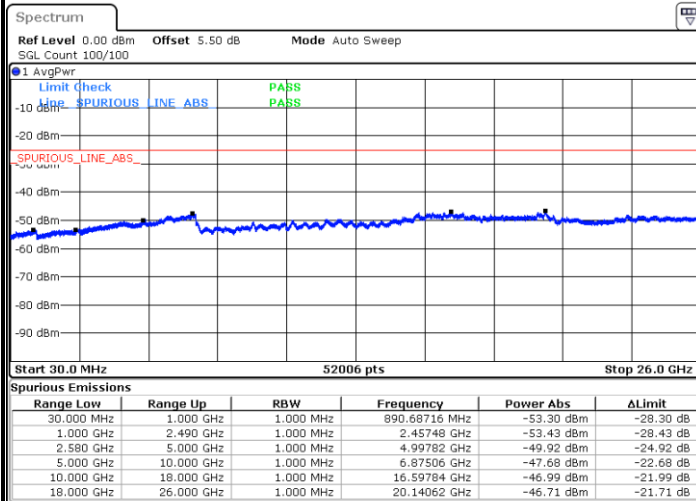
Date: 9 SEP 2018 16:55:24

Middle Channel / 64QAM



Date: 9 SEP 2018 16:56:18

Highest Channel / 64QAM

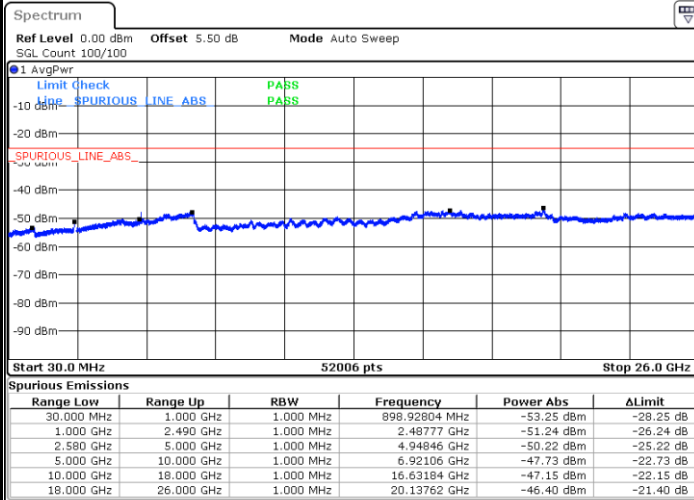


Date: 9 SEP 2018 16:57:13



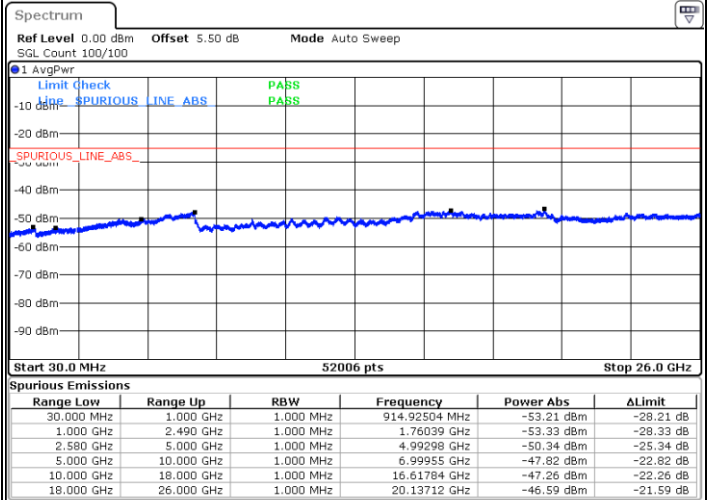
LTE Band 7 / 15MHz

Lowest Channel / 64QAM



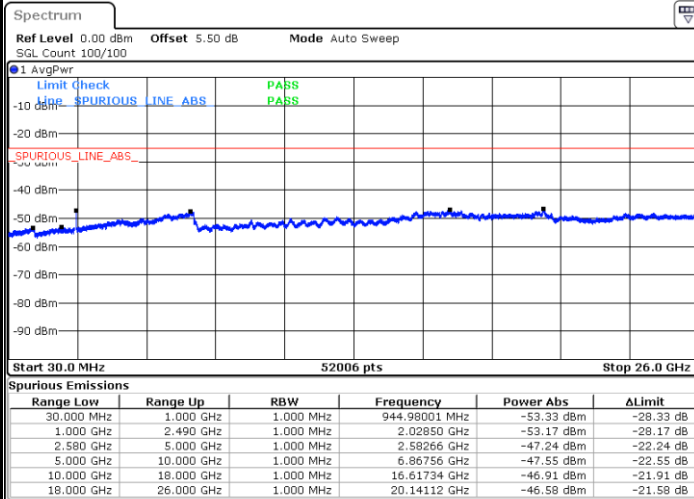
Date: 9 SEP 2018 16:52:41

Middle Channel / 64QAM



Date: 9 SEP 2018 16:53:35

Highest Channel / 64QAM

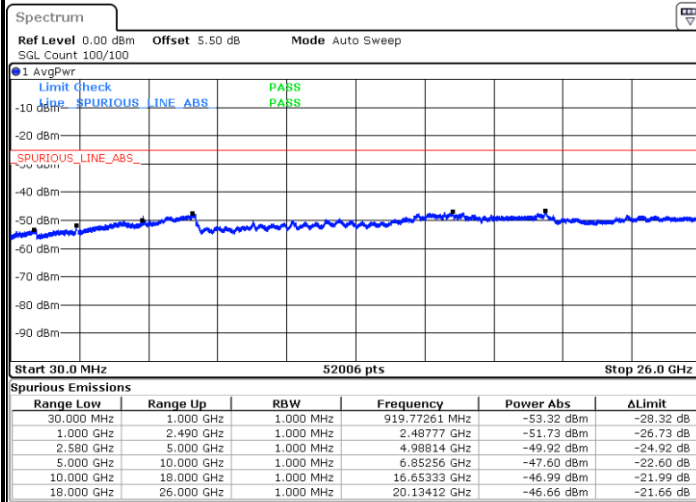


Date: 9 SEP 2018 16:54:30



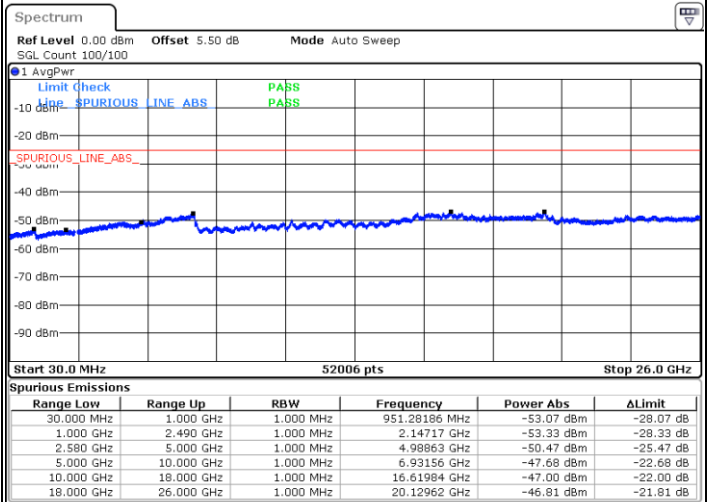
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



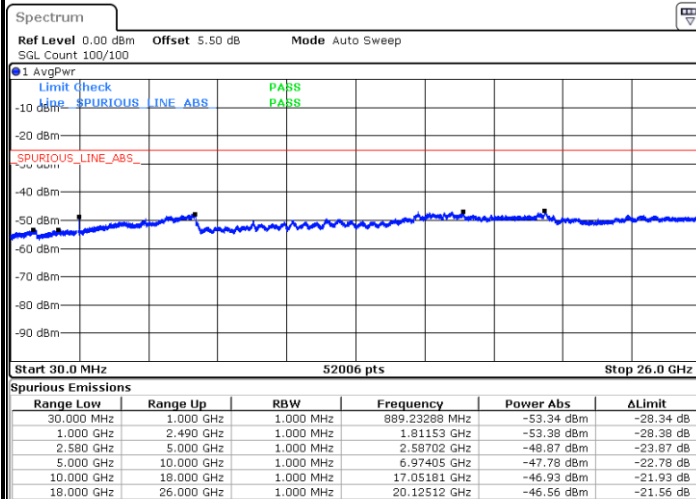
Date: 9 SEP 2018 16:45:21

Middle Channel / 64QAM



Date: 9 SEP 2018 16:46:15

Highest Channel / 64QAM



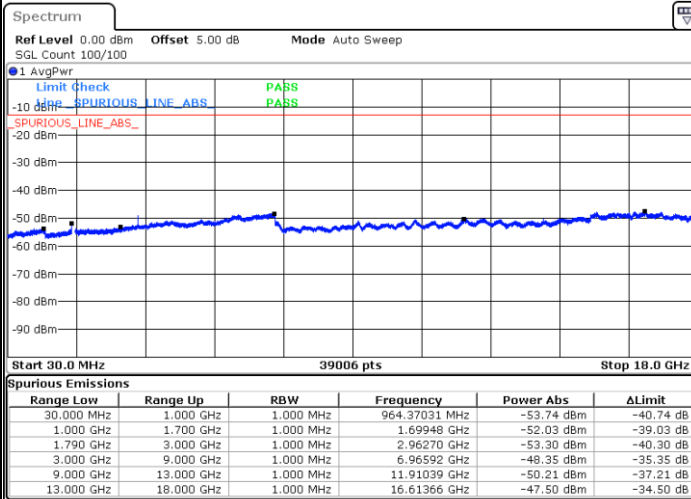
Date: 9 SEP 2018 16:47:10



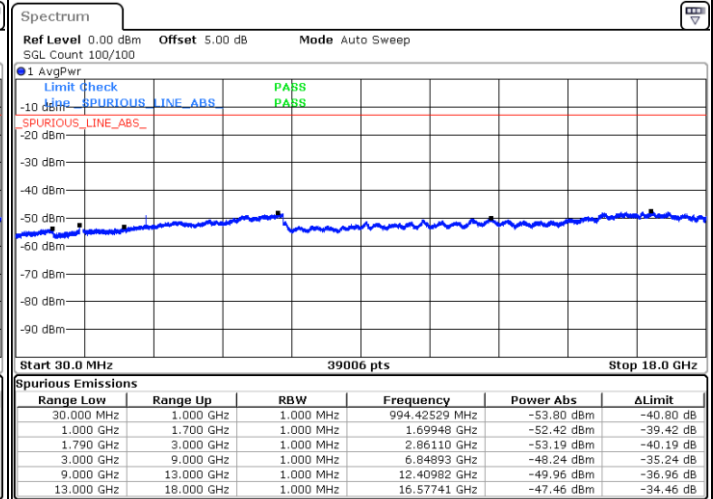
LTE Band 66 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



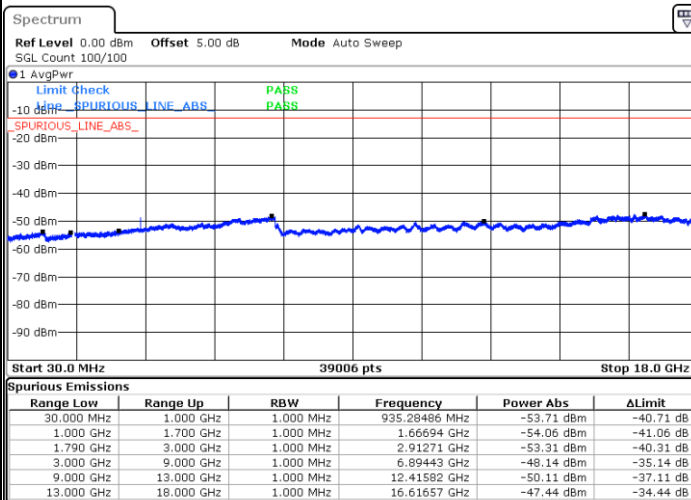
Date: 10 SEP 2018 09:54:52



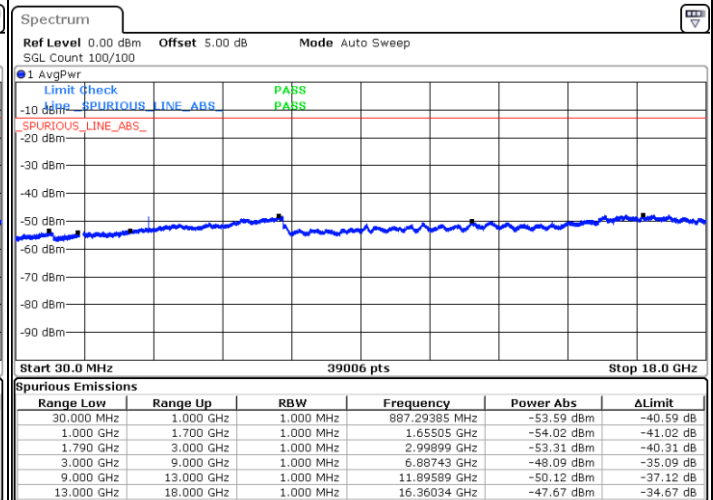
Date: 10 SEP 2018 09:54:10

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 10 SEP 2018 10:00:02

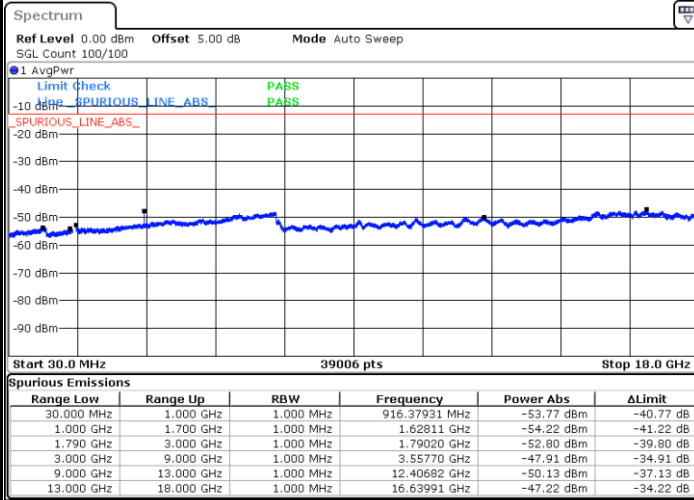


Date: 10 SEP 2018 09:59:21



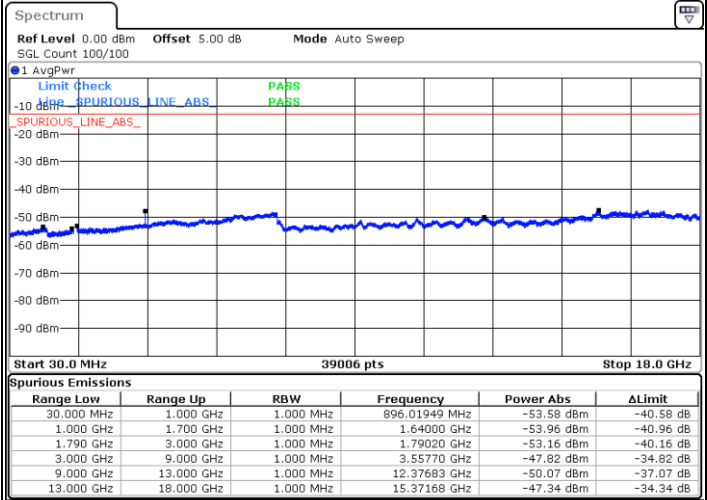
LTE Band 66 / 1.4MHz

Highest Channel / QPSK



Date: 10 SEP 2018 10:11:15

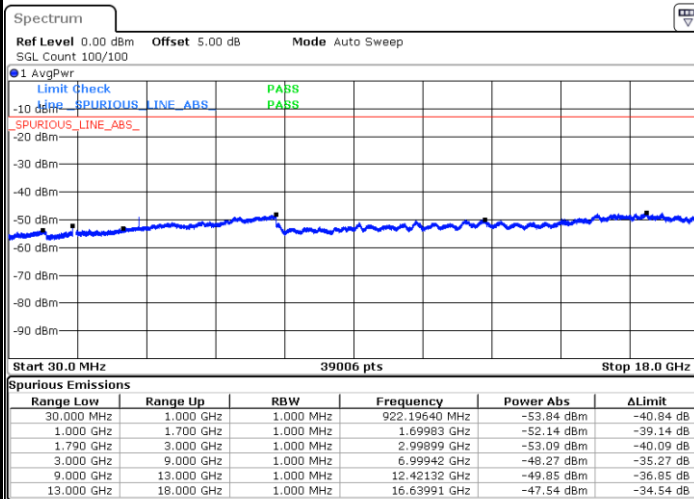
Highest Channel / 16QAM



Date: 10 SEP 2018 10:10:27

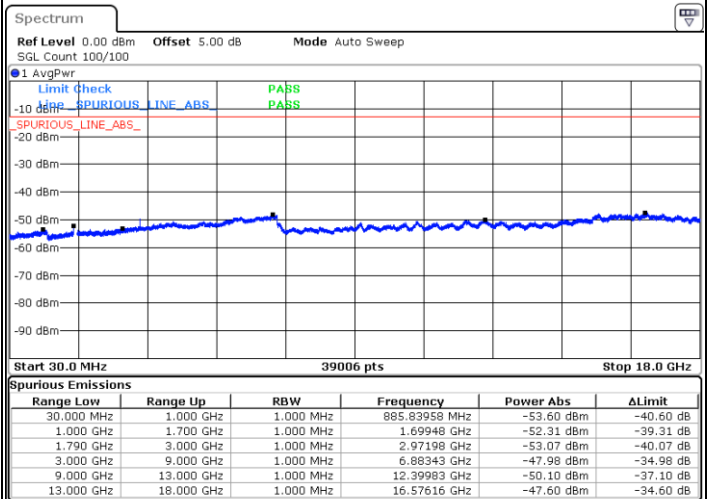
LTE Band 66 / 3MHz

Lowest Channel / QPSK



Date: 10 SEP 2018 10:33:48

Lowest Channel / 16QAM

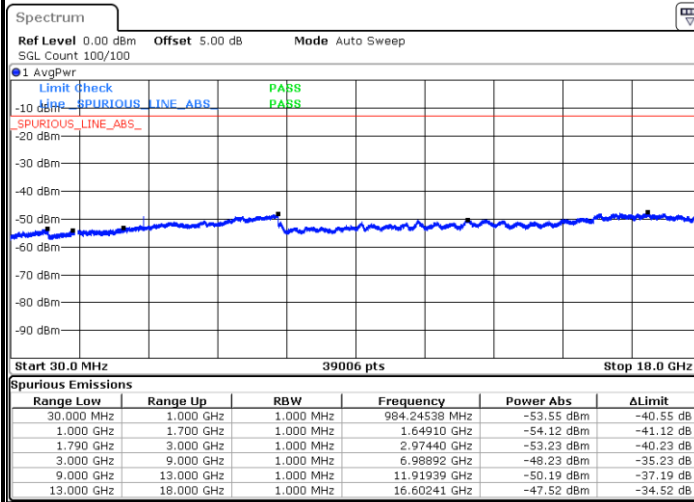


Date: 10 SEP 2018 10:34:29



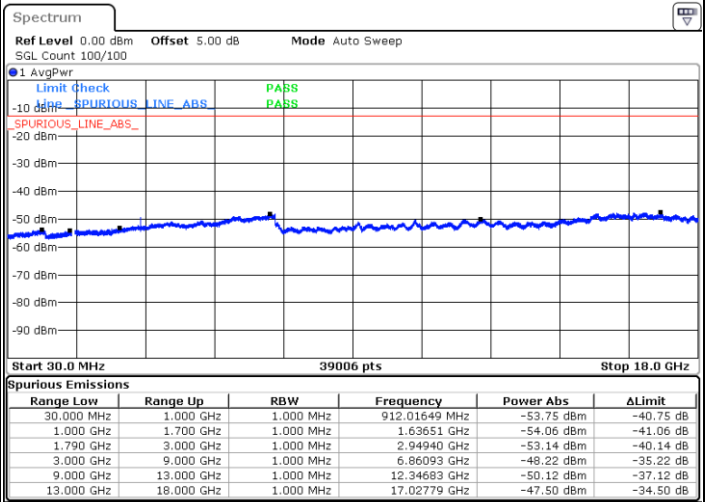
LTE Band 66 / 3MHz

Middle Channel / QPSK



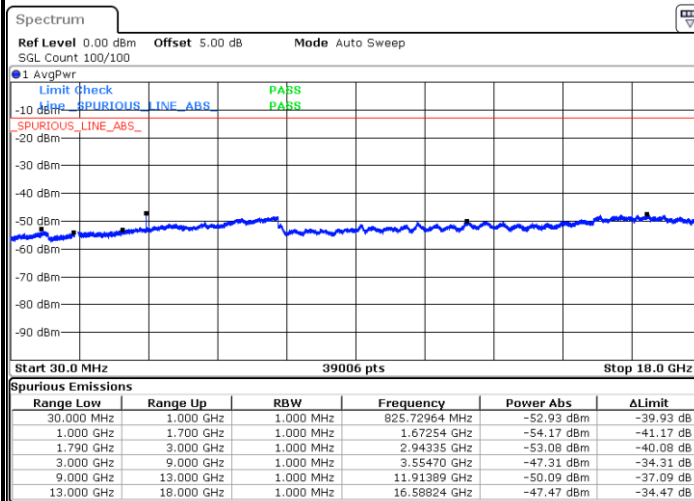
Date: 10.SEP.2018 10:30:20

Middle Channel / 16QAM



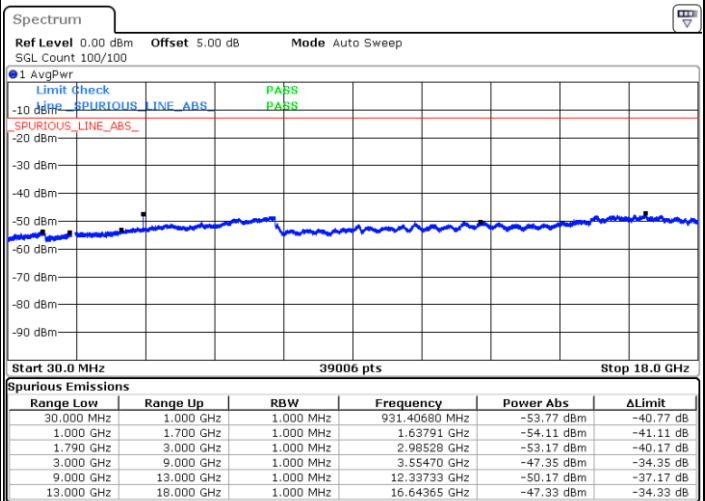
Date: 10.SEP.2018 10:31:03

Highest Channel / QPSK



Date: 10.SEP.2018 10:37:51

Highest Channel / 16QAM

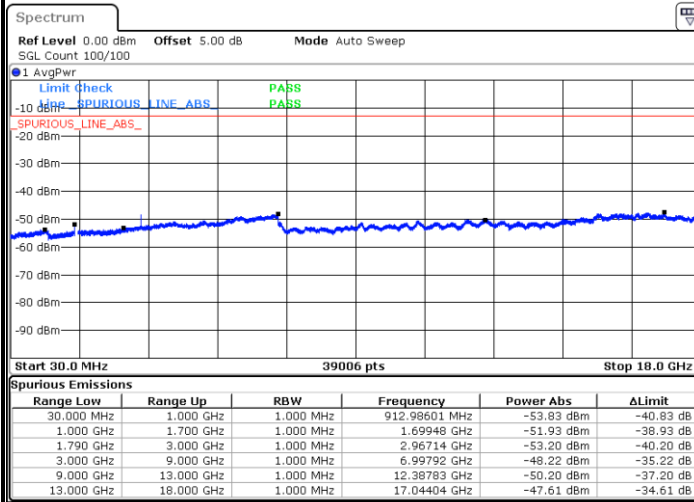


Date: 10.SEP.2018 10:38:35



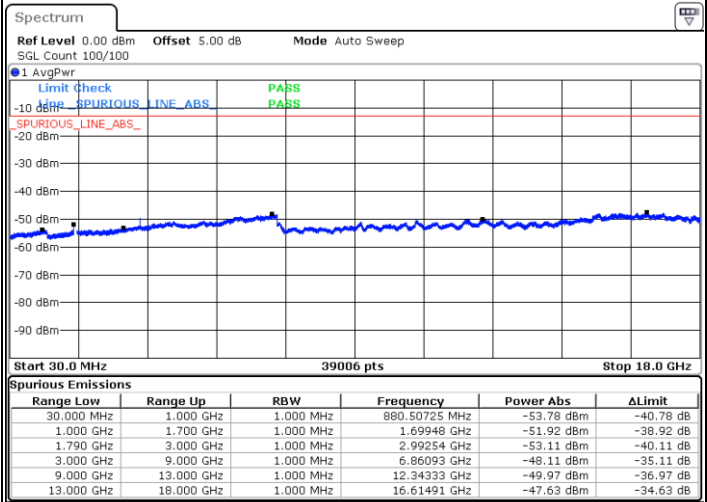
LTE Band 66 / 5MHz

Lowest Channel / QPSK



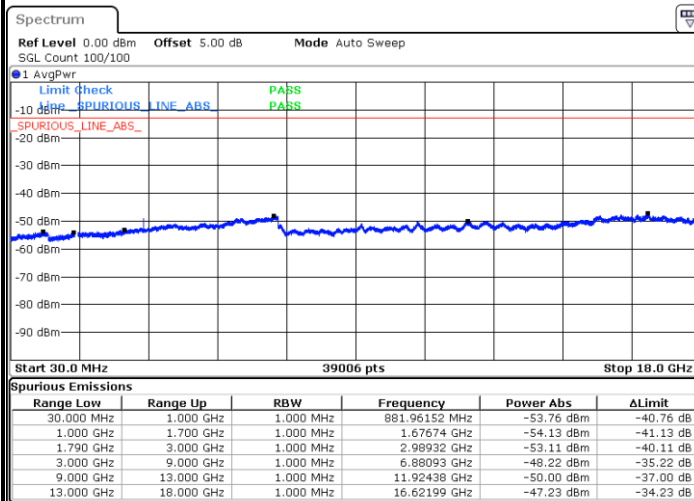
Date: 10.SEP.2018 10:51:34

Lowest Channel / 16QAM



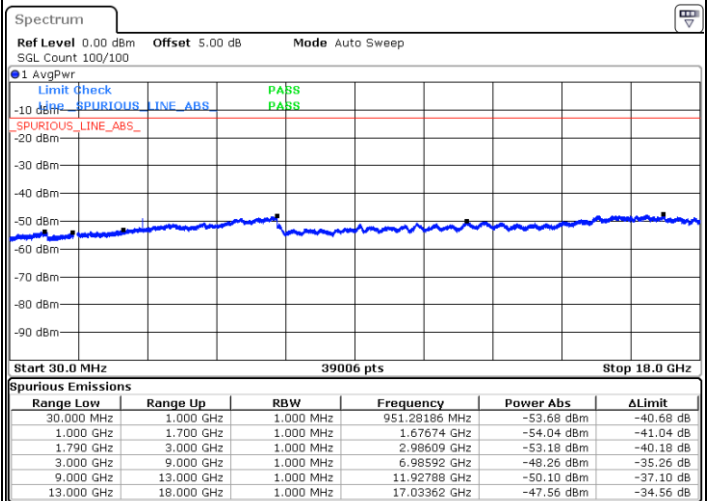
Date: 10.SEP.2018 10:50:52

Middle Channel / QPSK



Date: 10.SEP.2018 10:55:04

Middle Channel / 16QAM

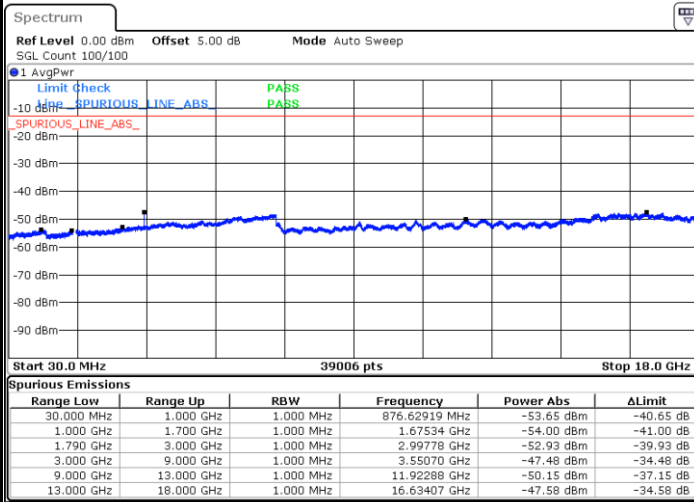


Date: 10.SEP.2018 10:54:26



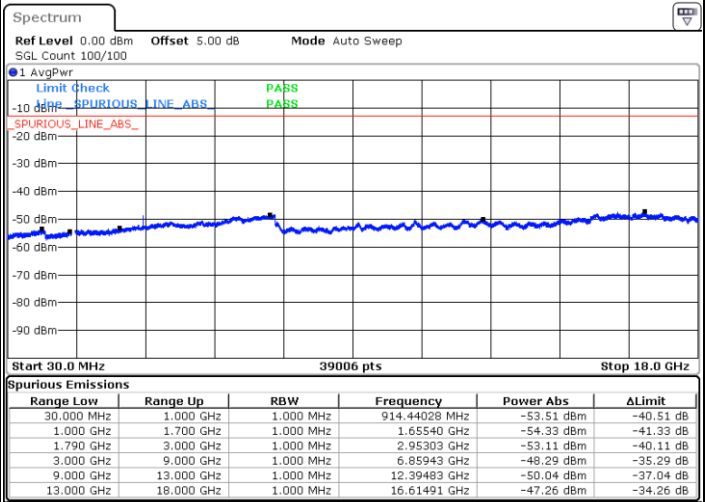
LTE Band 66 / 5MHz

Highest Channel / QPSK



Date: 10 SEP 2018 10:56:10

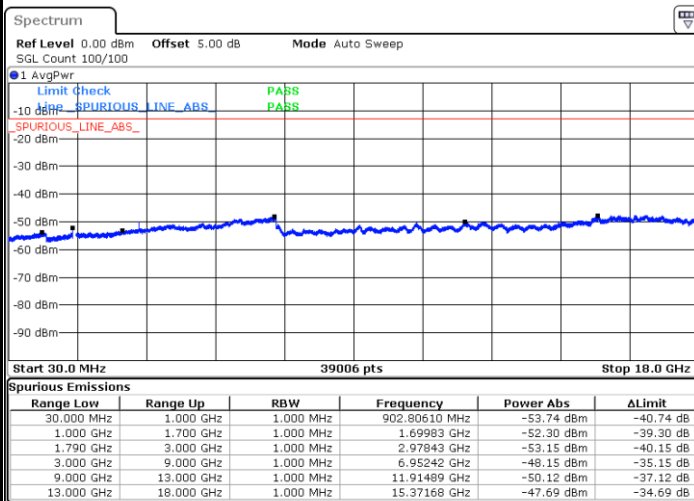
Highest Channel / 16QAM



Date: 10 SEP 2018 10:56:50

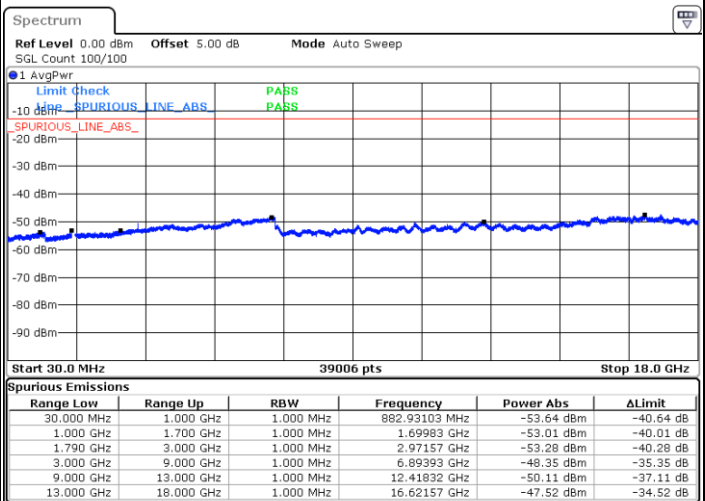
LTE Band 66 / 10MHz

Lowest Channel / QPSK



Date: 10 SEP 2018 11:07:12

Lowest Channel / 16QAM

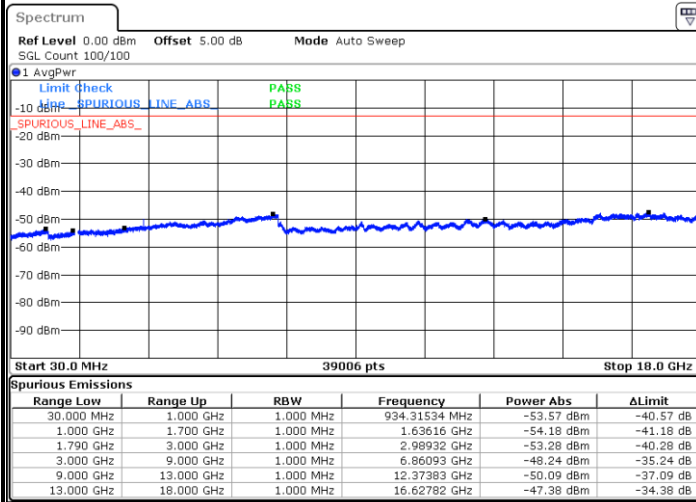


Date: 10 SEP 2018 11:07:52



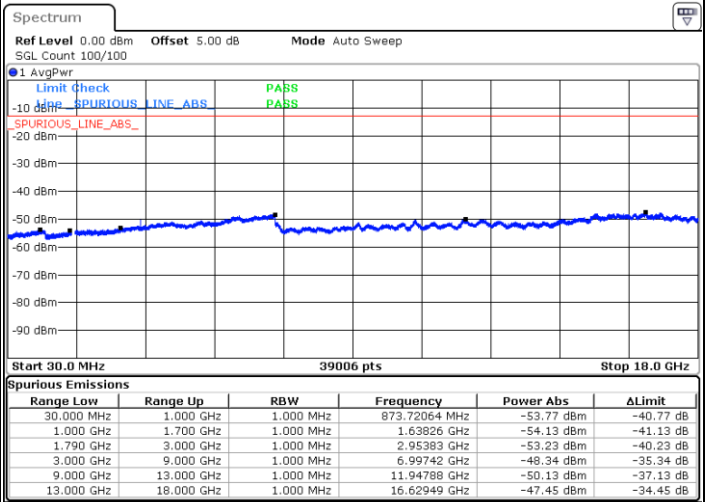
LTE Band 66 / 10MHz

Middle Channel / QPSK



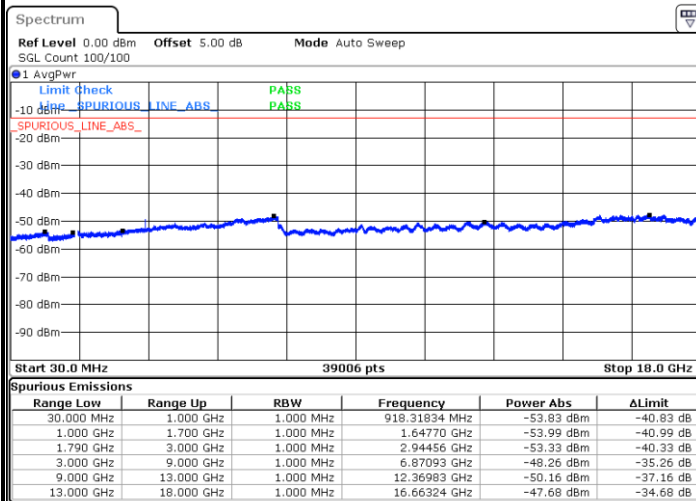
Date: 10.SEP.2018 11:10:10

Middle Channel / 16QAM



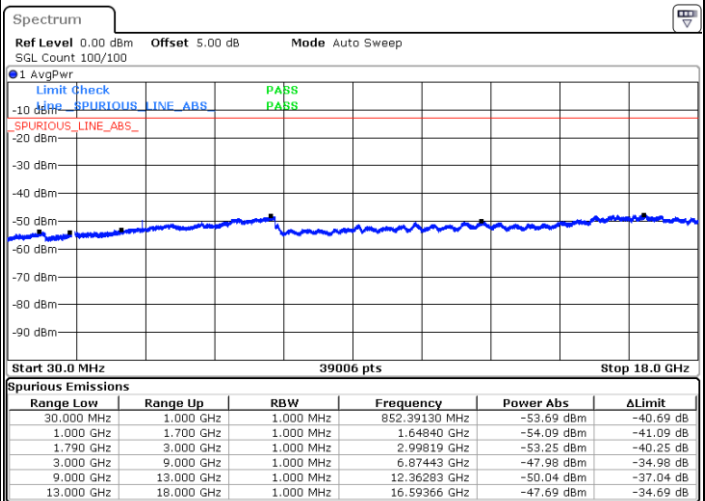
Date: 10.SEP.2018 11:11:03

Highest Channel / QPSK



Date: 10.SEP.2018 11:19:37

Highest Channel / 16QAM

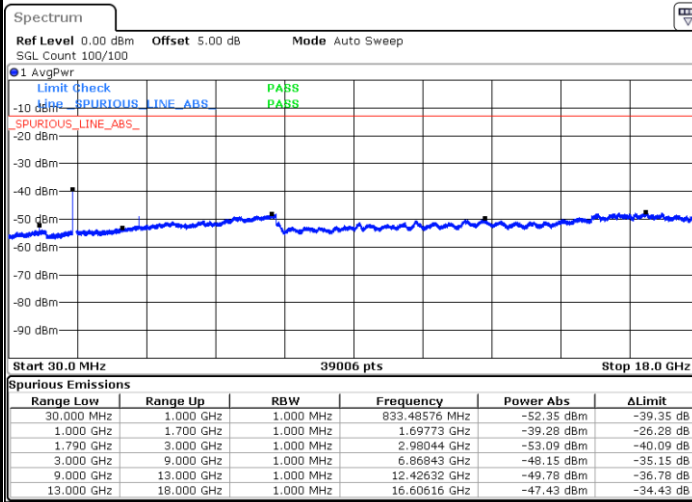


Date: 10.SEP.2018 11:18:56



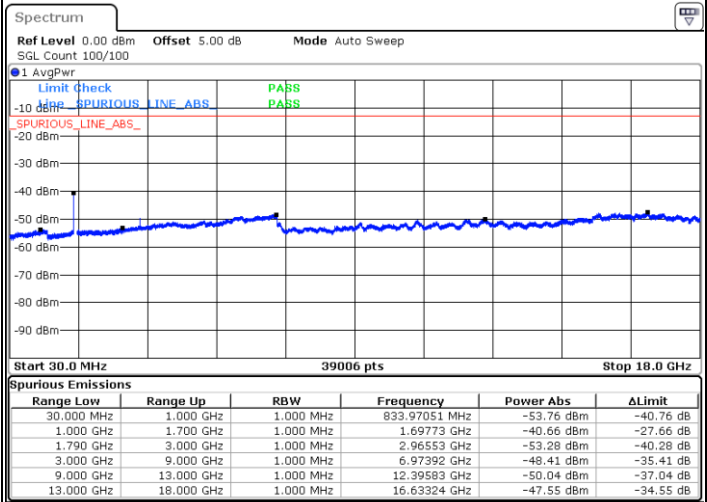
LTE Band 66 / 15MHz

Lowest Channel / QPSK



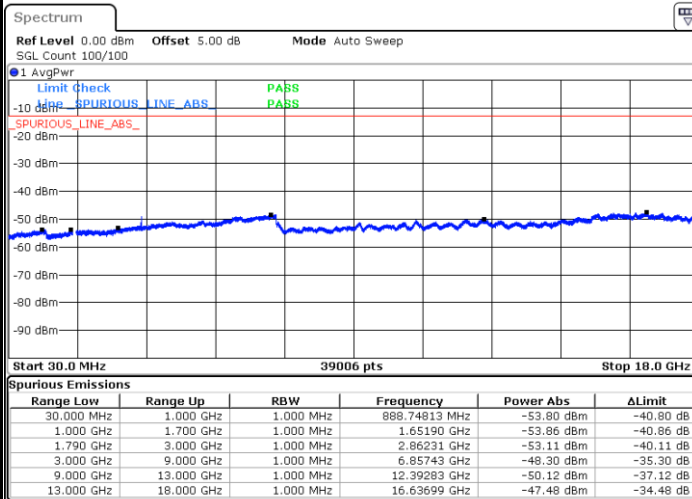
Date: 10.SEP.2018 11:34:36

Lowest Channel / 16QAM



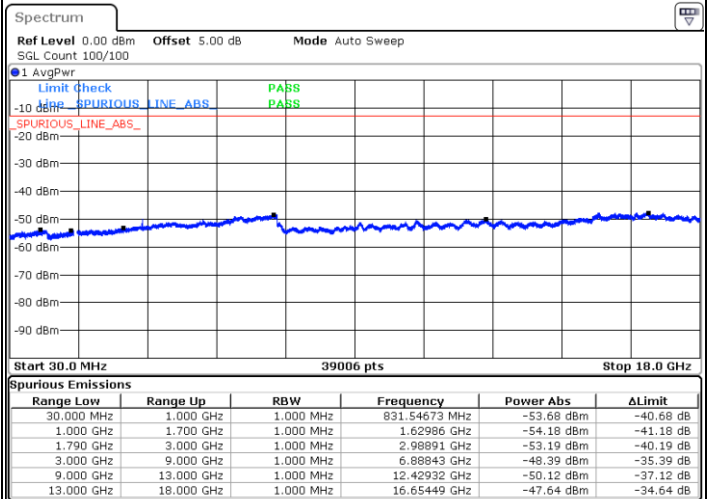
Date: 10.SEP.2018 11:33:54

Middle Channel / QPSK



Date: 10.SEP.2018 11:41:08

Middle Channel / 16QAM

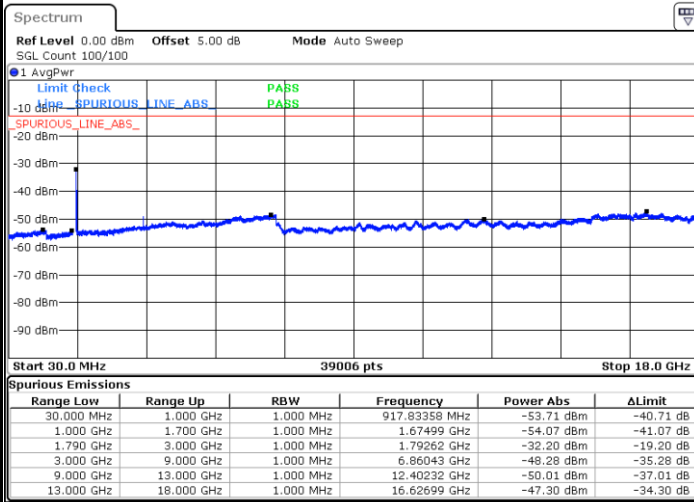


Date: 10.SEP.2018 11:41:48



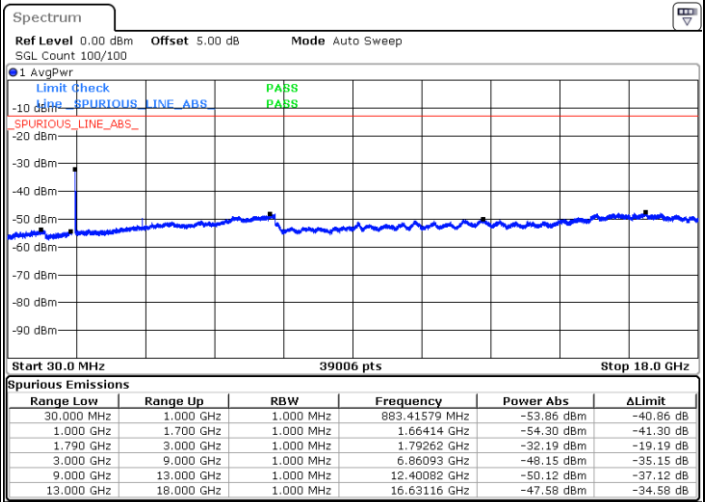
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 10 SEP 2018 11:50:40

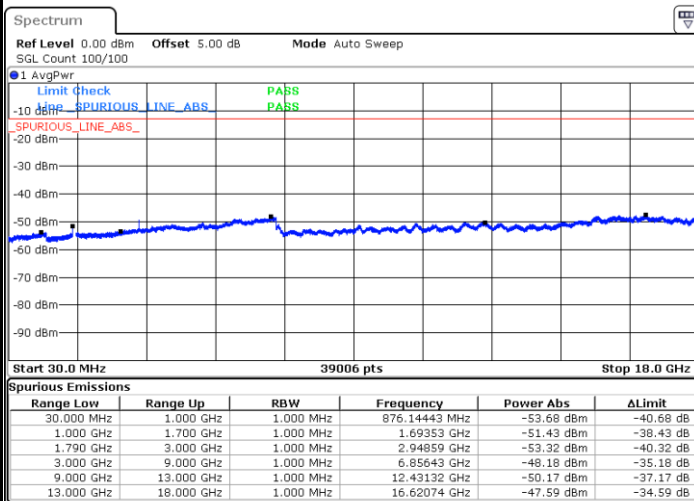
Highest Channel / 16QAM



Date: 10 SEP 2018 11:49:59

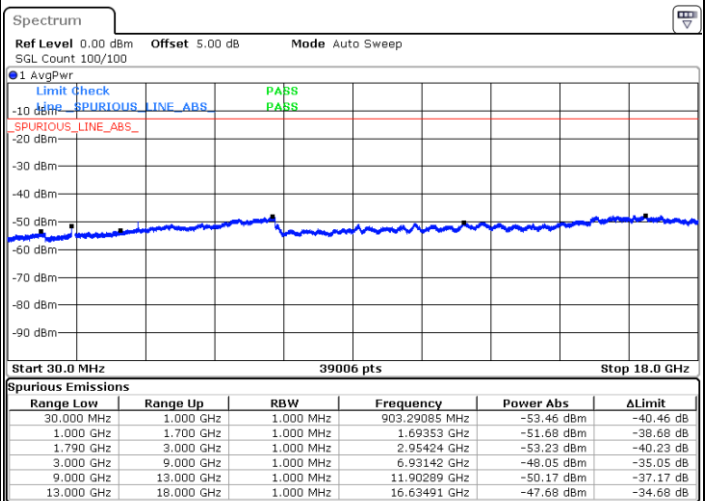
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 10 SEP 2018 13:33:10

Lowest Channel / 16QAM

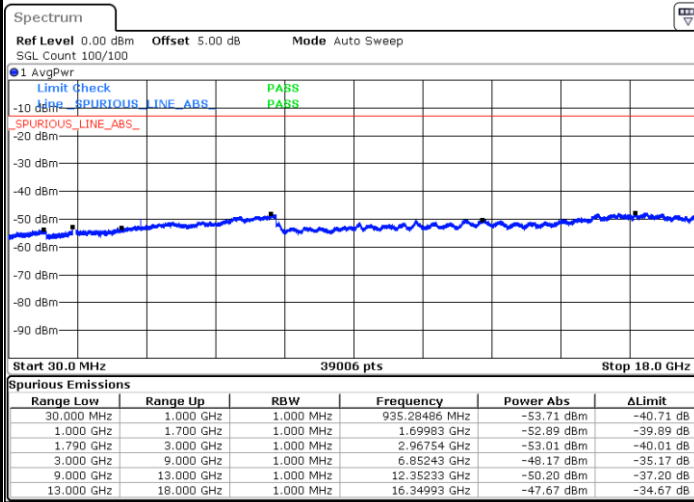


Date: 10 SEP 2018 11:58:02



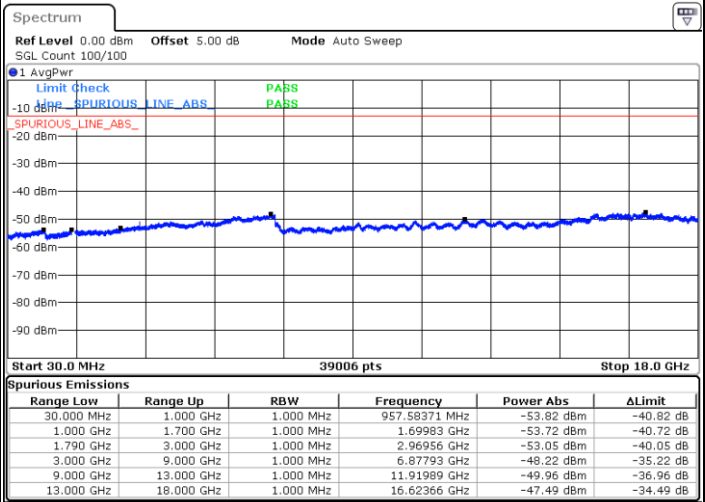
LTE Band 66 / 20MHz

Middle Channel / QPSK



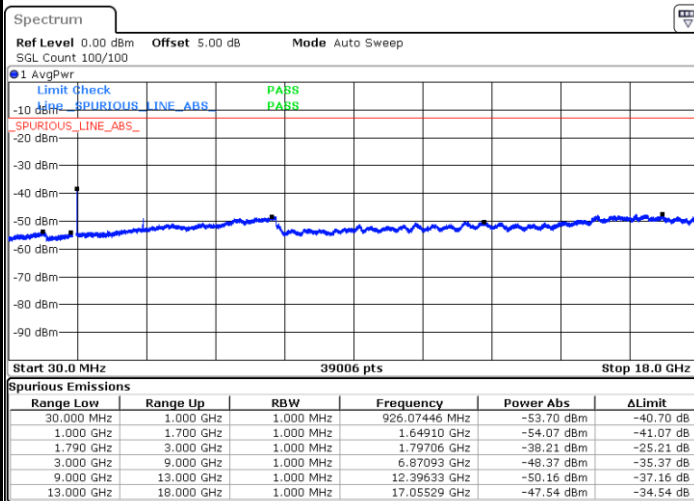
Date: 10.SEP.2018 13:37:55

Middle Channel / 16QAM



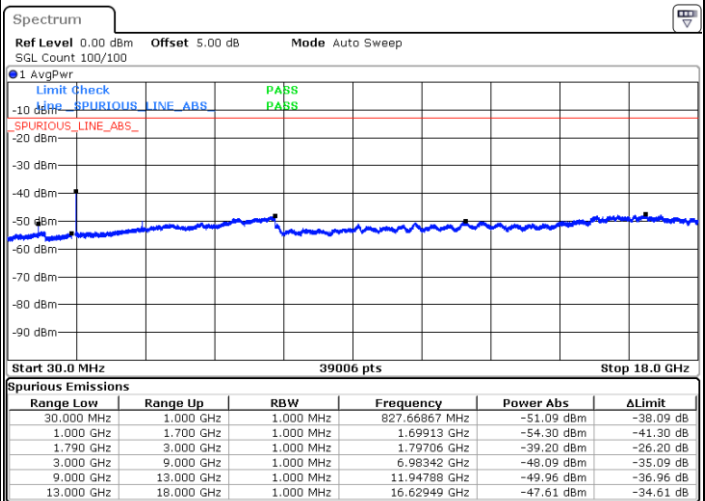
Date: 10.SEP.2018 13:36:55

Highest Channel / QPSK



Date: 10.SEP.2018 13:48:42

Highest Channel / 16QAM



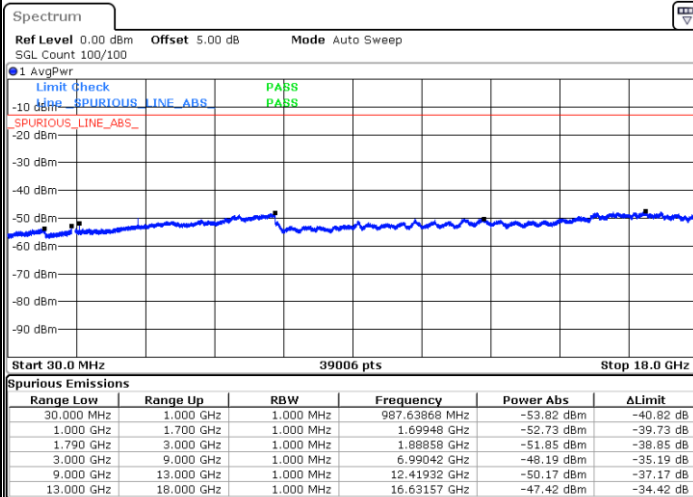
Date: 10.SEP.2018 13:47:23



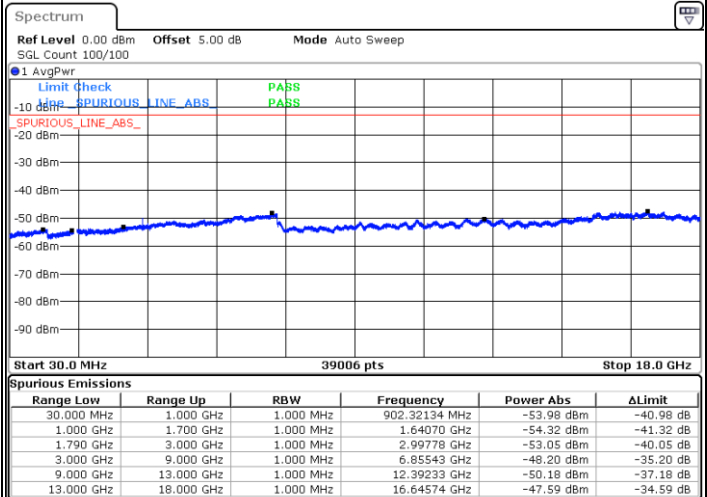
LTE Band 66 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

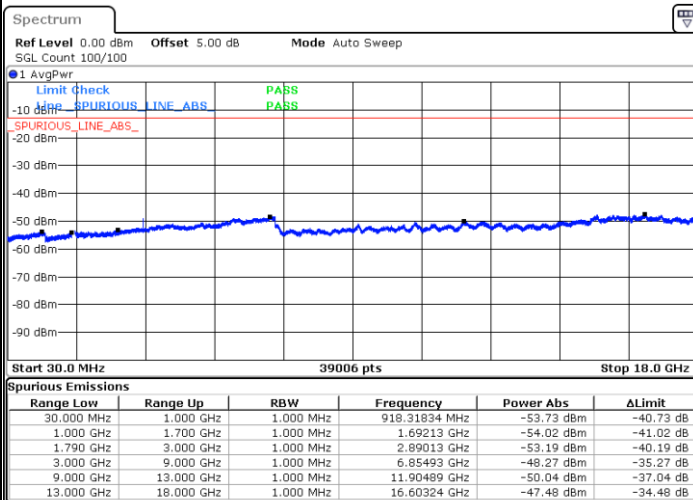


Date: 10 SEP. 2018 09:52:24



Date: 10 SEP. 2018 09:58:30

Highest Channel / 64QAM

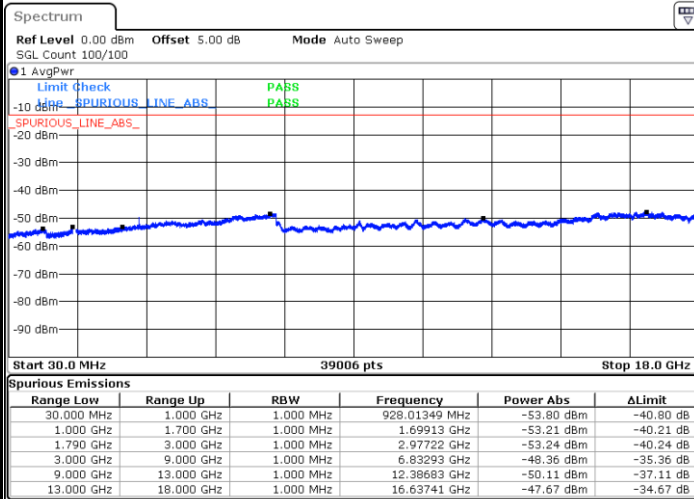


Date: 10 SEP. 2018 10:09:38



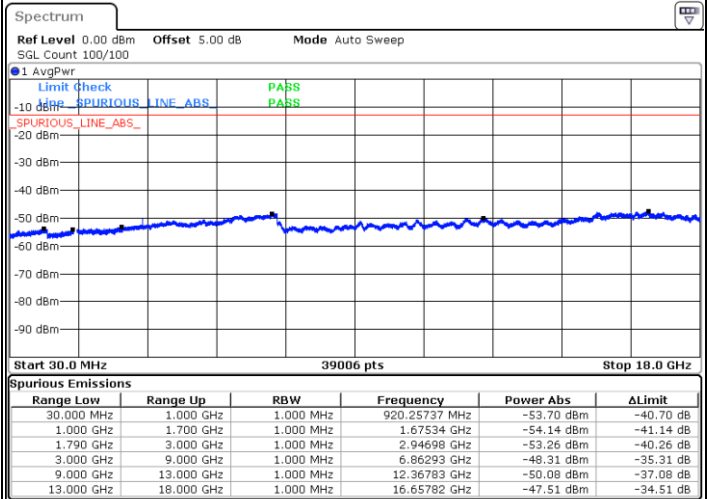
LTE Band 66 / 3MHz

Lowest Channel / 64QAM



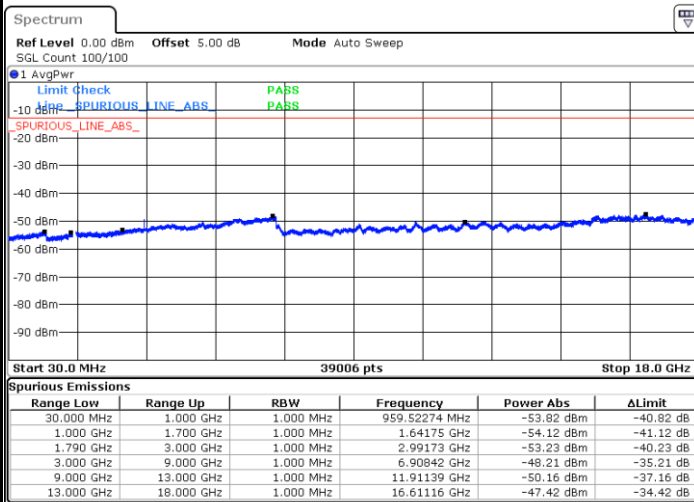
Date: 10 SEP. 2018 10:35:08

Middle Channel / 64QAM



Date: 10 SEP. 2018 10:31:42

Highest Channel / 64QAM

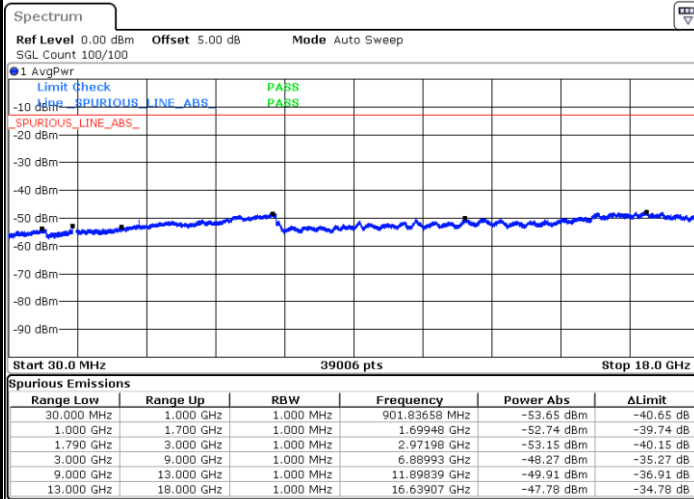


Date: 10 SEP. 2018 10:39:25



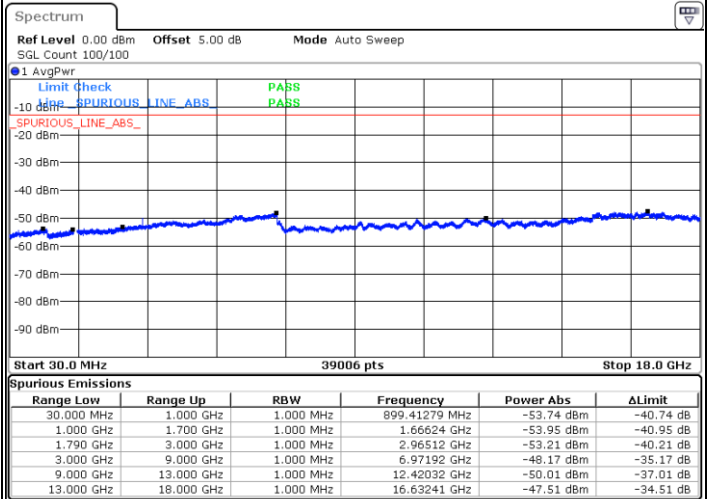
LTE Band 66 / 5MHz

Lowest Channel / 64QAM



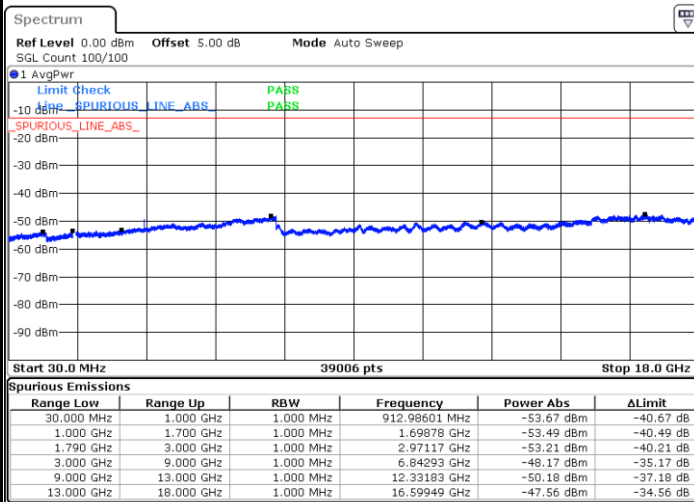
Date: 10 SEP. 2018 10:50:14

Middle Channel / 64QAM



Date: 10 SEP. 2018 10:53:46

Highest Channel / 64QAM

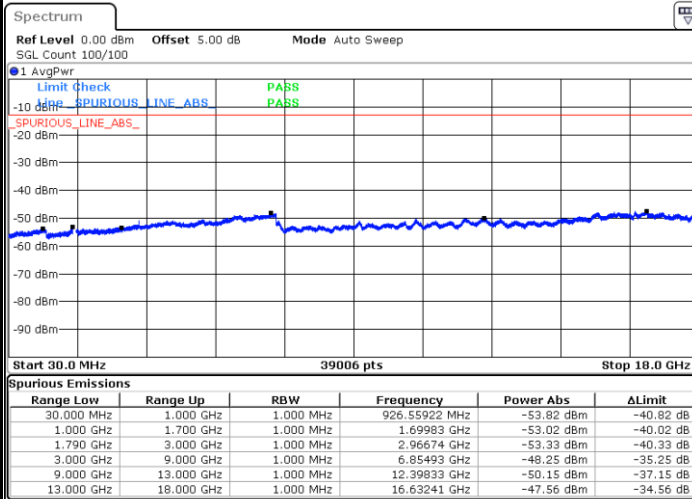


Date: 10 SEP. 2018 10:57:29



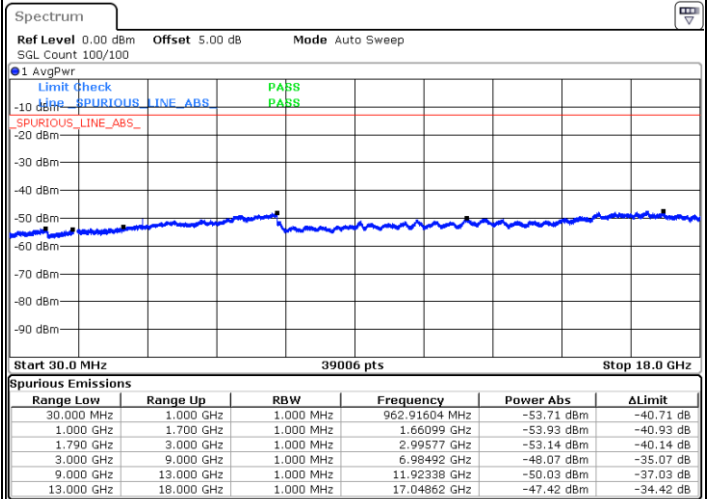
LTE Band 66 / 10MHz

Lowest Channel / 64QAM



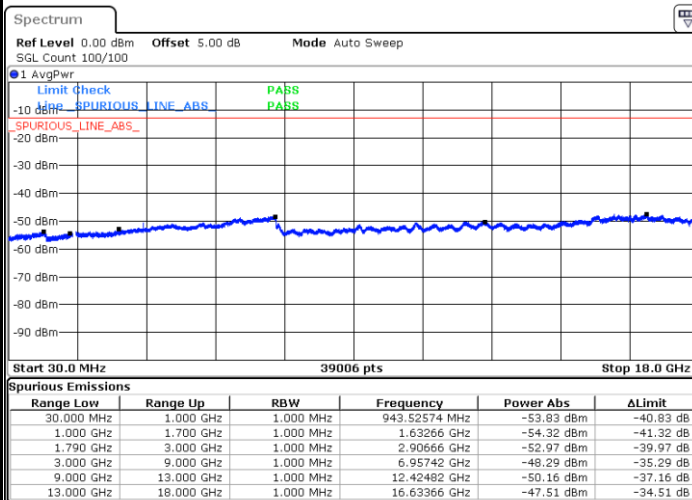
Date: 10 SEP. 2018 11:08:31

Middle Channel / 64QAM



Date: 10 SEP. 2018 11:11:46

Highest Channel / 64QAM

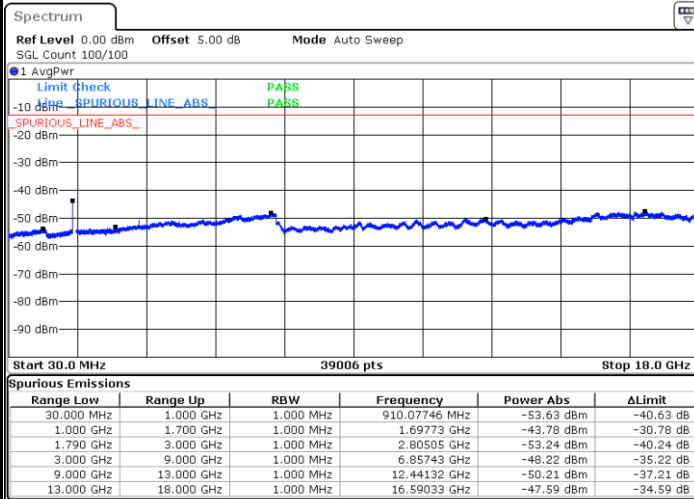


Date: 10 SEP. 2018 11:18:13



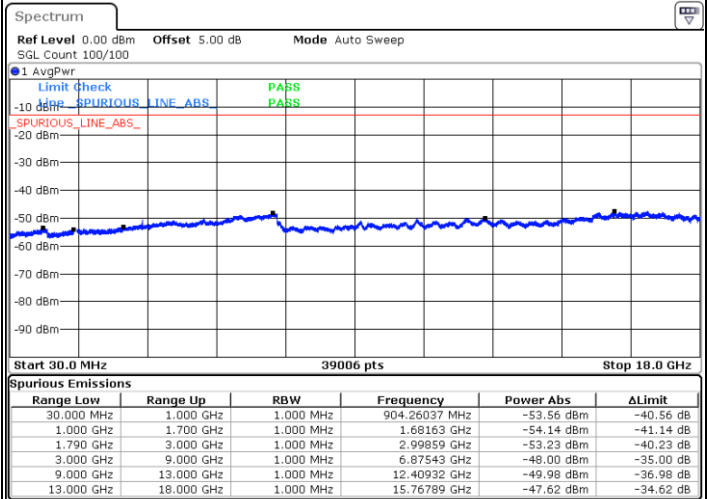
LTE Band 66 / 15MHz

Lowest Channel / 64QAM



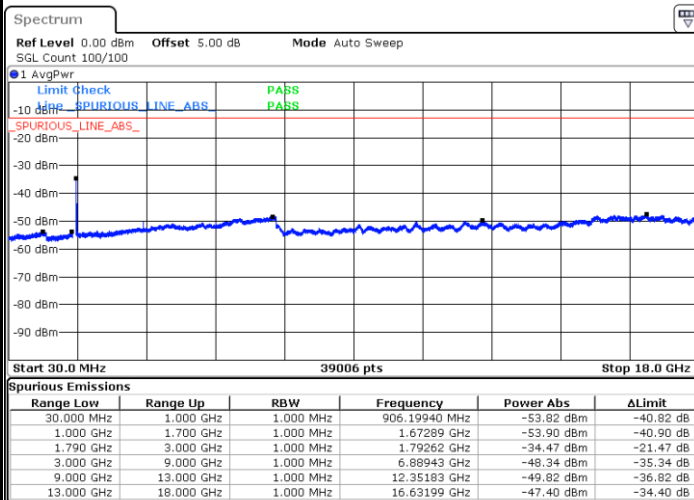
Date: 10 SEP. 2018 11:32:41

Middle Channel / 64QAM



Date: 10 SEP. 2018 11:42:27

Highest Channel / 64QAM



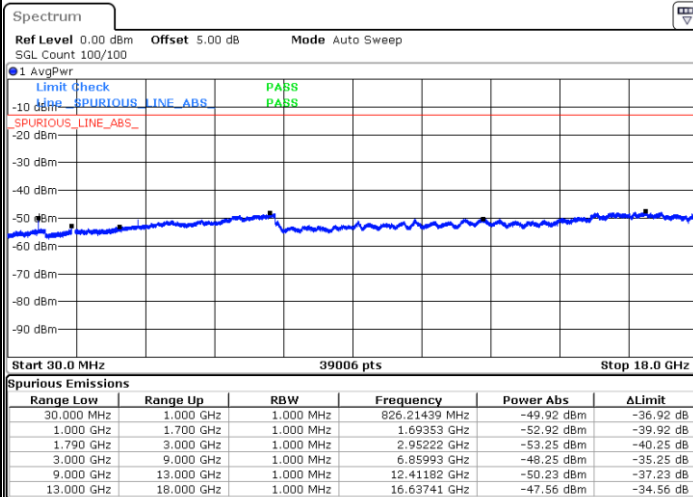
Date: 10 SEP. 2018 11:49:18



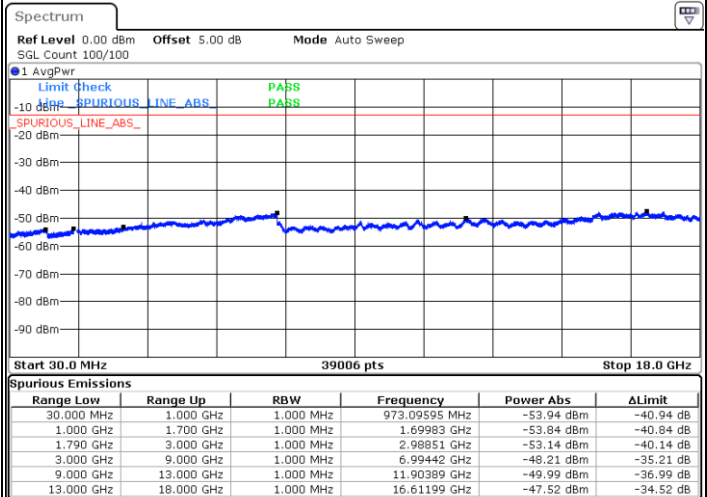
LTE Band 66 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

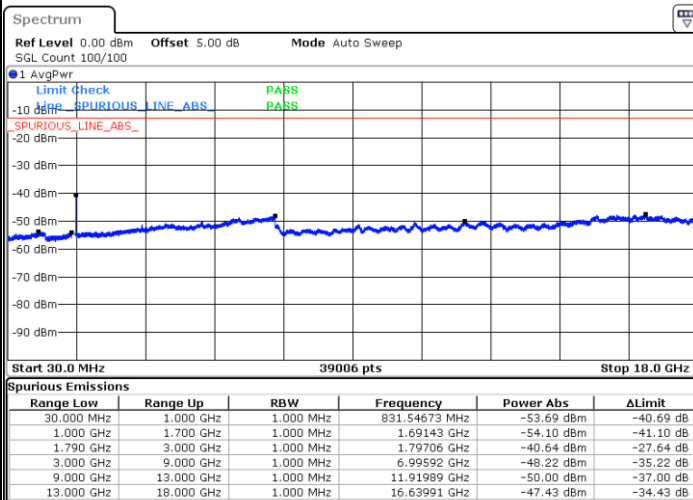


Date: 10 SEP. 2018 11:56:40



Date: 10 SEP. 2018 13:35:45

Highest Channel / 64QAM



Date: 10 SEP. 2018 13:45:44

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0022	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.2 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0047	PASS
40	Normal Voltage	0.0044	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0036	
0	Normal Voltage	0.0050	
-10	Normal Voltage	0.0047	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0054	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0050	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.2 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0017	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.2 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0041	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0046	
-20	Normal Voltage	0.0035	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0018	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.2 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 2 / 20 MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-57.60	-13	-44.60	-64.17	1.848	8.42	H
	5613	-56.22	-13	-43.22	-64.58	2.32	10.68	H
	7485	-51.37	-13	-38.37	-60.70	2.61	11.94	H
	3741	-57.95	-13	-44.95	-64.52	1.85	8.42	V
	5613	-57.61	-13	-44.61	-65.97	2.32	10.68	V
	7485	-53.50	-13	-40.50	-62.83	2.61	11.94	V

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

LTE Band 5 / 10 MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-65.30	-13	-52.30	-67.63	1.21	5.68	H
	2496	-61.26	-13	-48.26	-63.37	1.54	5.80	H
	3327	-60.50	-13	-47.50	-64.50	1.73	7.88	H
	1664.18	-65.90	-13	-52.90	-68.23	1.21	5.68	V
	2496	-59.49	-13	-46.49	-61.60	1.54	5.80	V
	3327	-60.27	-13	-47.27	-64.27	1.73	7.88	V

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



LTE Band 7 / 20 MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5051	-63.22	-25	-38.22	-71.25	2.18	10.21	H
	7577	-57.29	-25	-32.29	-66.60	2.69	12.00	H
	10107	-54.63	-25	-29.63	-64.34	3.19	12.90	H
	5052	-60.06	-25	-35.06	-68.09	2.18	10.21	V
	7576	-57.24	-25	-32.24	-66.55	2.69	12.00	V
	10107	-48.08	-25	-23.08	-57.79	3.19	12.90	V

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

LTE Band 66 / 20 MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3492	-60.09	-13	-47.09	-66.41	1.81	8.13	H
	5238	-56.59	-13	-43.59	-64.57	2.222	10.20	H
	6984	-54.84	-13	-41.84	-63.66	2.54	11.36	H
	3492	-59.88	-13	-46.88	-66.20	1.81	8.13	V
	5238	-57.39	-13	-44.39	-65.37	2.222	10.20	V
	6984	-55.54	-13	-42.54	-64.36	2.54	11.36	V

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