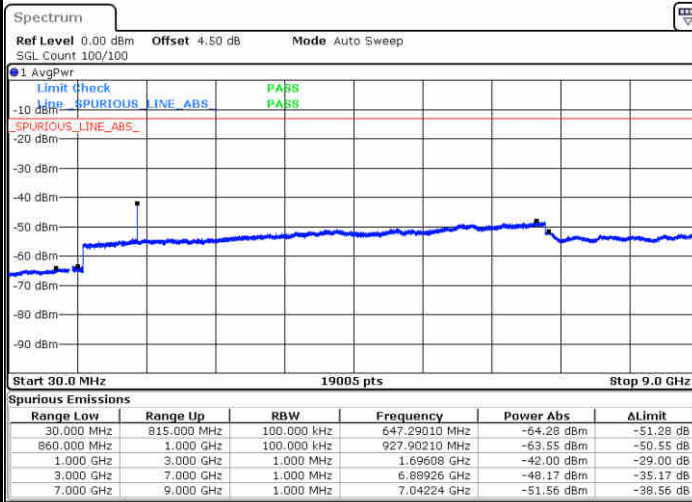




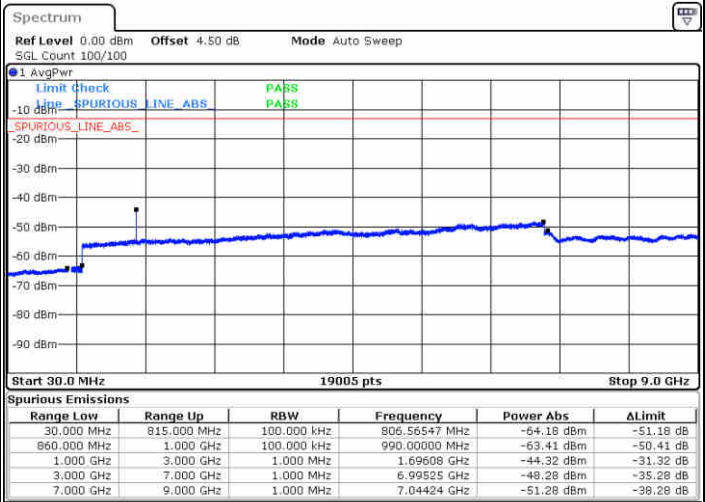
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 9 JUN 2016 13:19:54

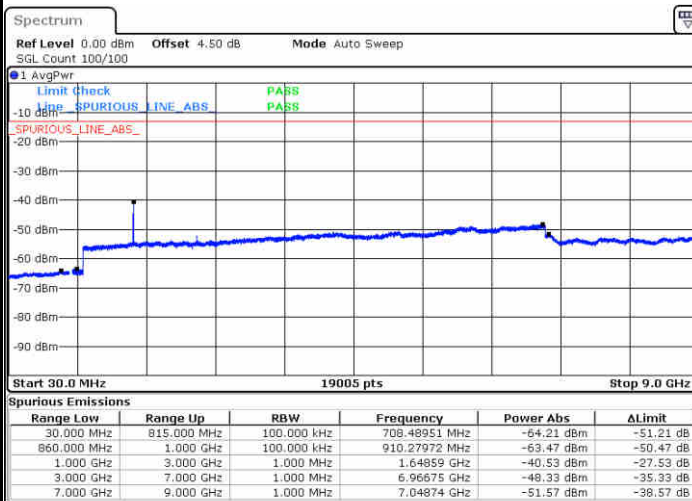
Highest Channel / 16QAM



Date: 9 JUN 2016 13:20:49

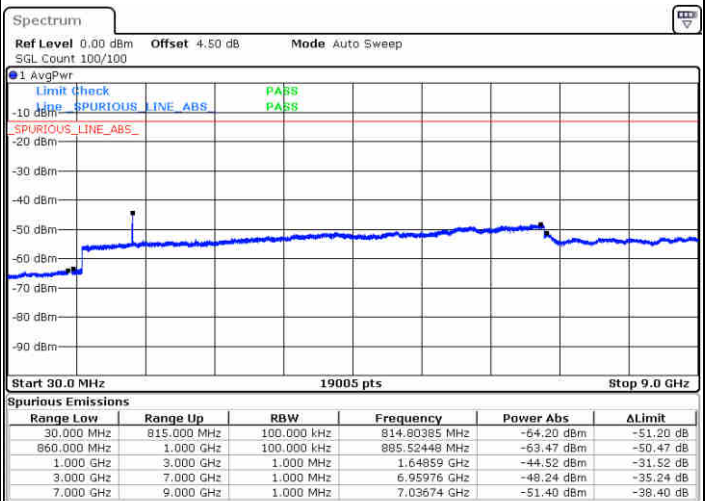
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 9 JUN 2016 13:29:00

Lowest Channel / 16QAM

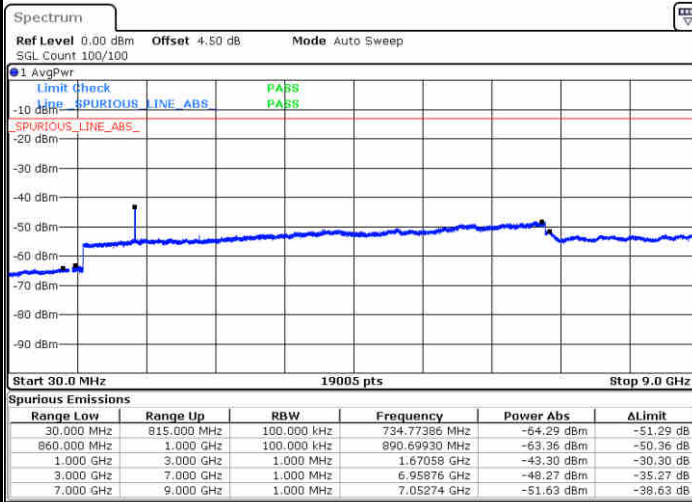


Date: 9 JUN 2016 13:29:55



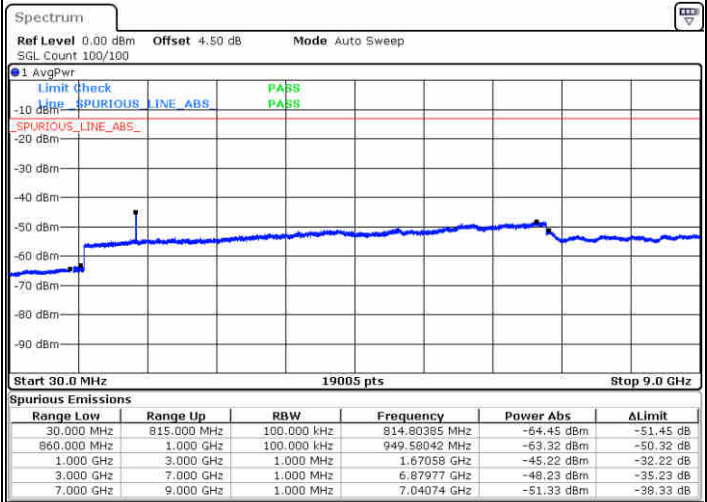
LTE Band 5 / 3MHz

Middle Channel / QPSK



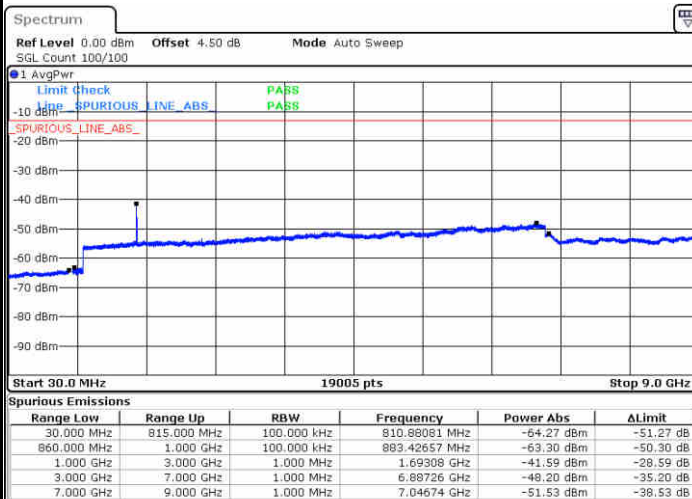
Date: 9 JUN 2018 13:31:33

Middle Channel / 16QAM



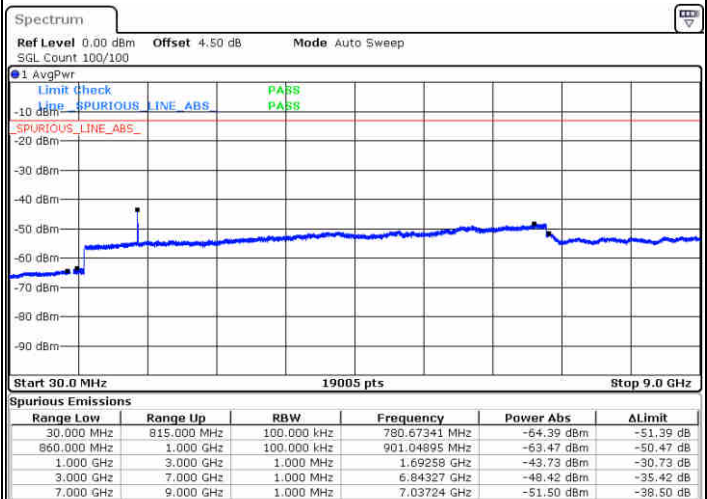
Date: 9 JUN 2018 13:32:28

Highest Channel / QPSK



Date: 9 JUN 2018 13:49:19

Highest Channel / 16QAM

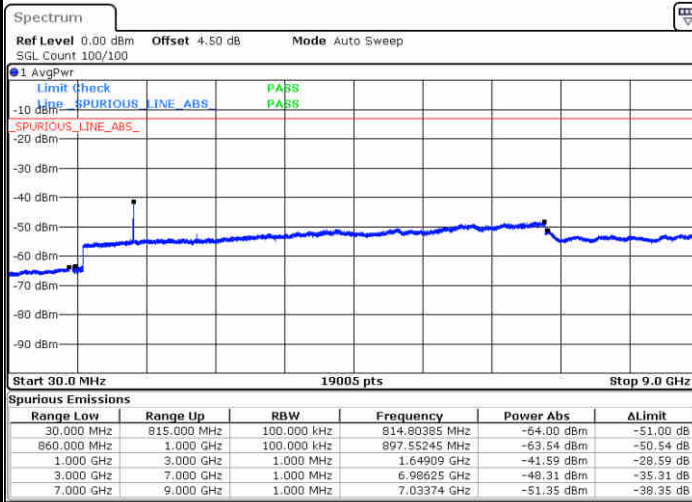


Date: 9 JUN 2018 13:50:14



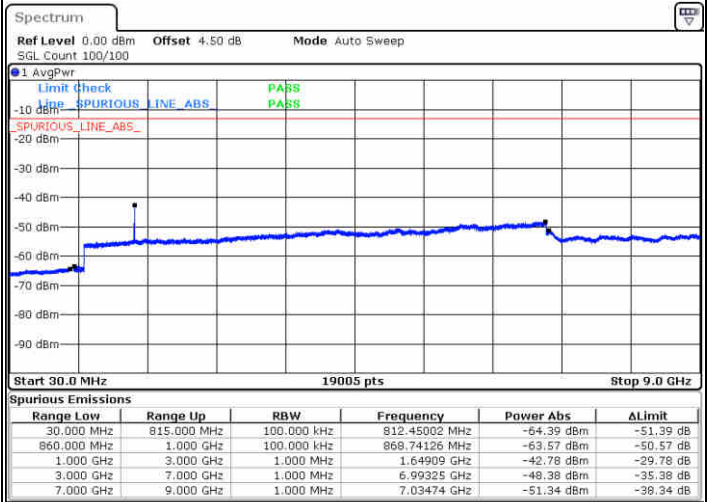
LTE Band 5 / 5MHz

Lowest Channel / QPSK



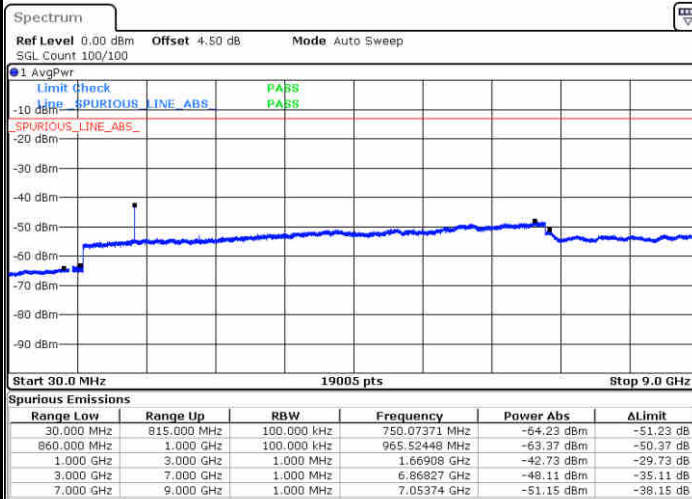
Date: 9 JUN 2018 13:58:24

Lowest Channel / 16QAM



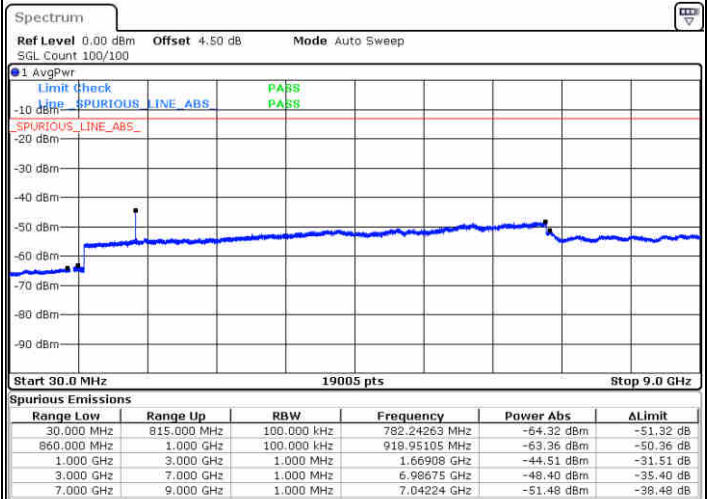
Date: 9 JUN 2018 13:59:19

Middle Channel / QPSK



Date: 9 JUN 2018 14:00:57

Middle Channel / 16QAM

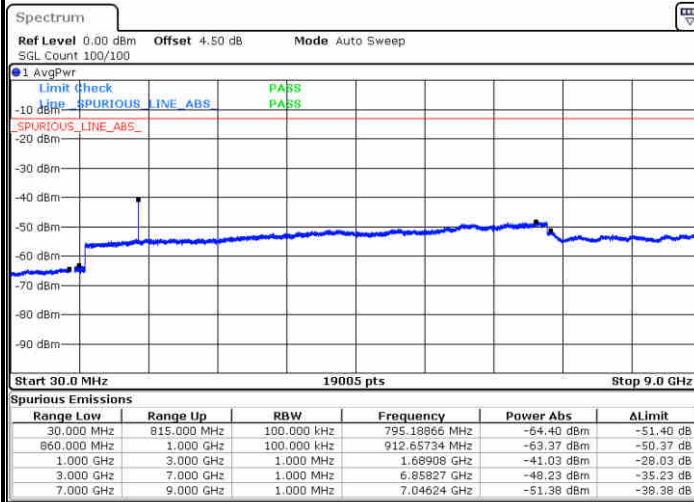


Date: 9 JUN 2018 14:01:53



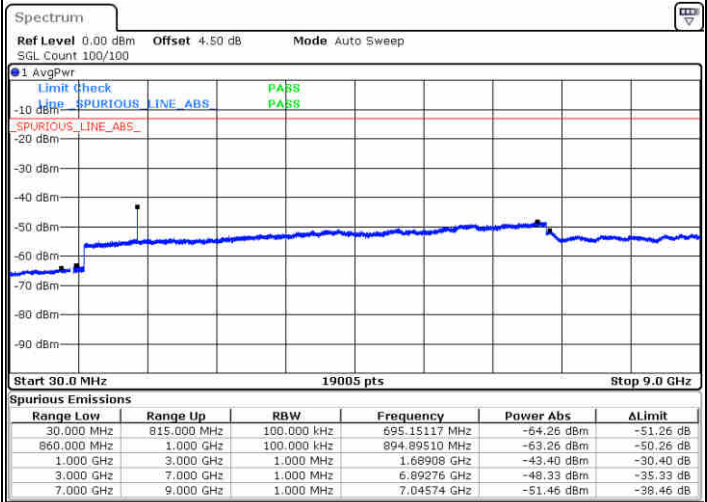
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 9 JUN 2018 14:10:03

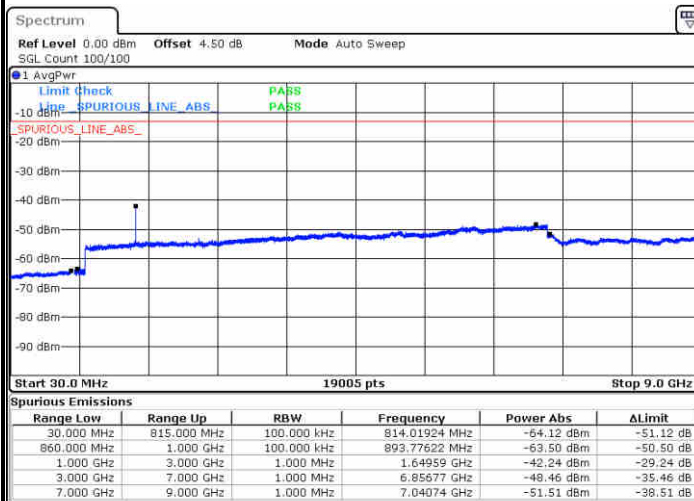
Highest Channel / 16QAM



Date: 9 JUN 2018 14:10:58

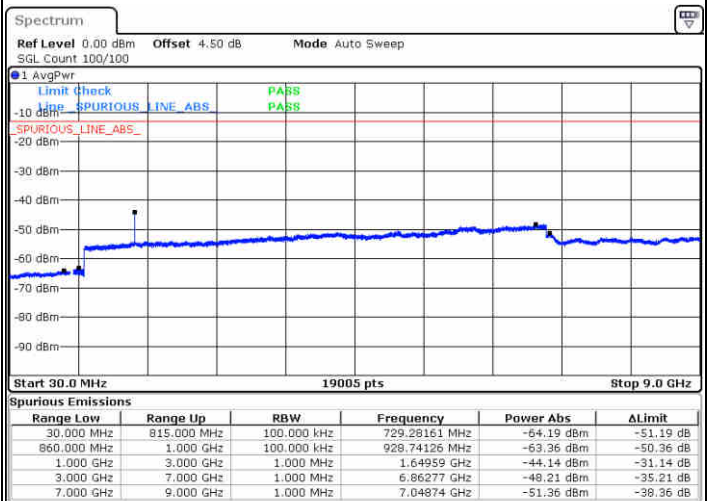
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 9 JUN 2018 14:19:08

Lowest Channel / 16QAM

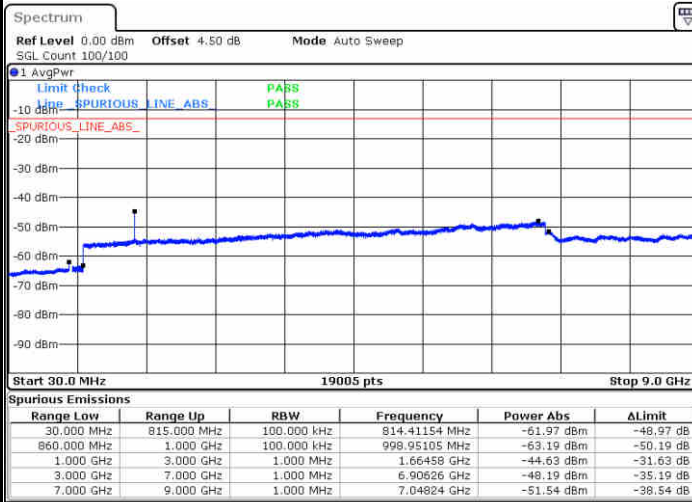


Date: 9 JUN 2018 14:20:03



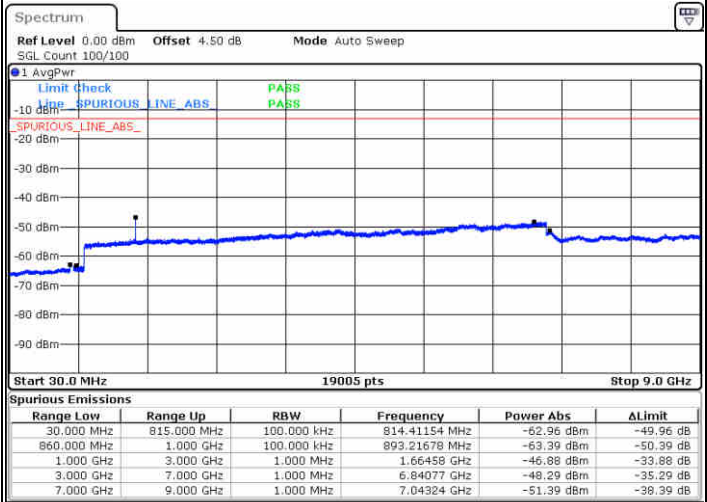
LTE Band 5 / 10MHz

Middle Channel / QPSK



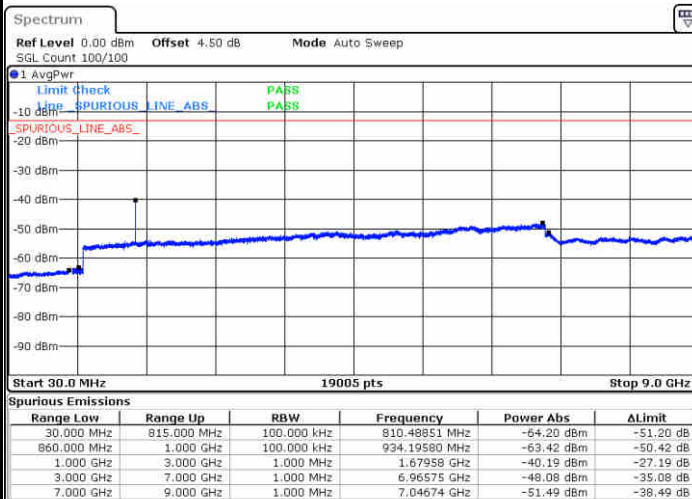
Date: 9 JUN 2018 14:21:41

Middle Channel / 16QAM



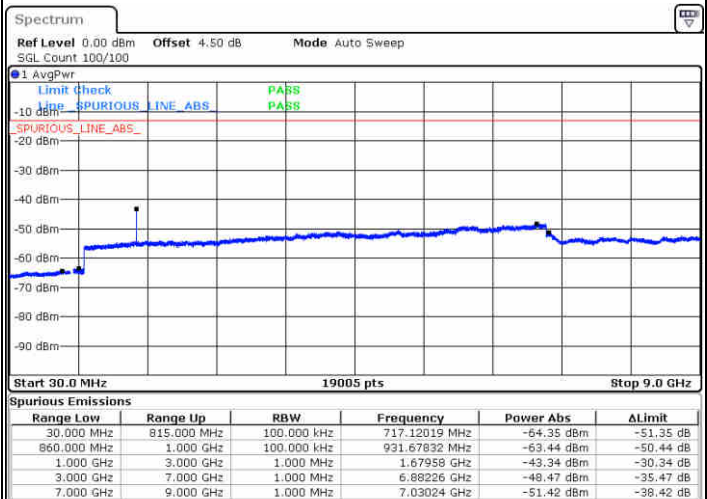
Date: 9 JUN 2018 14:22:36

Highest Channel / QPSK



Date: 9 JUN 2018 15:24:05

Highest Channel / 16QAM

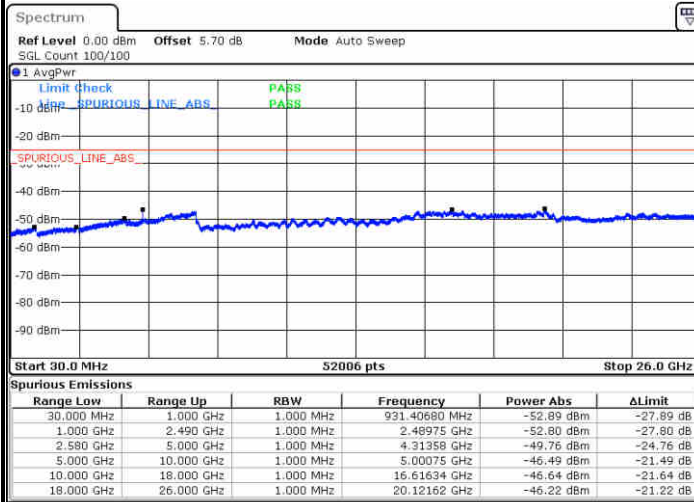


Date: 9 JUN 2018 16:13:23



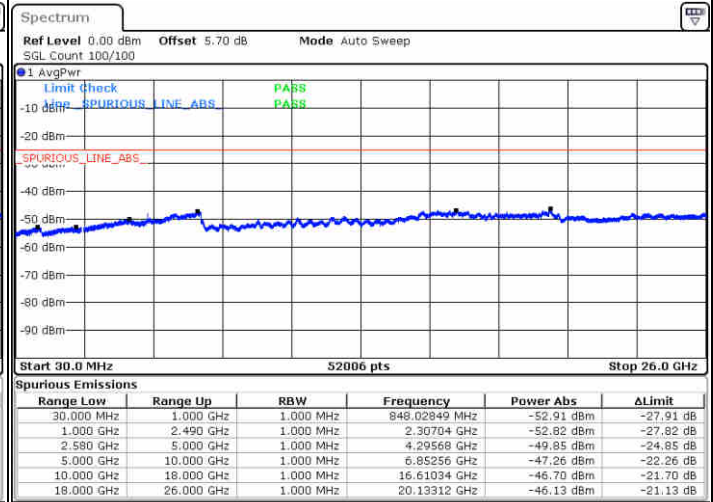
LTE Band 7 / 5MHz

Lowest Channel / QPSK



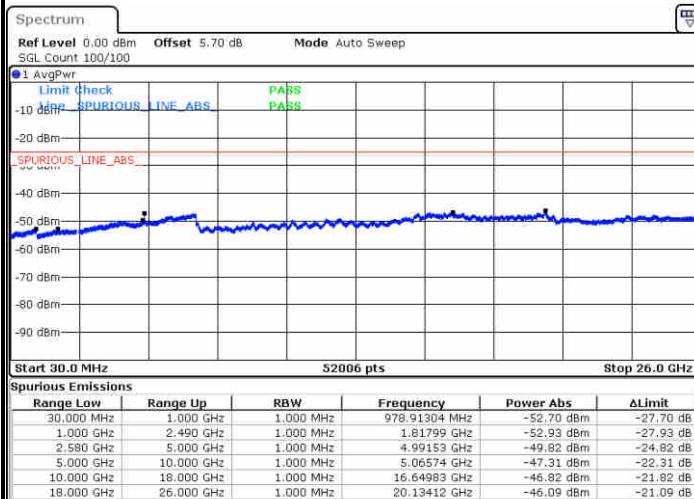
Date: 11 JUN 2018 18:53:08

Lowest Channel / 16QAM



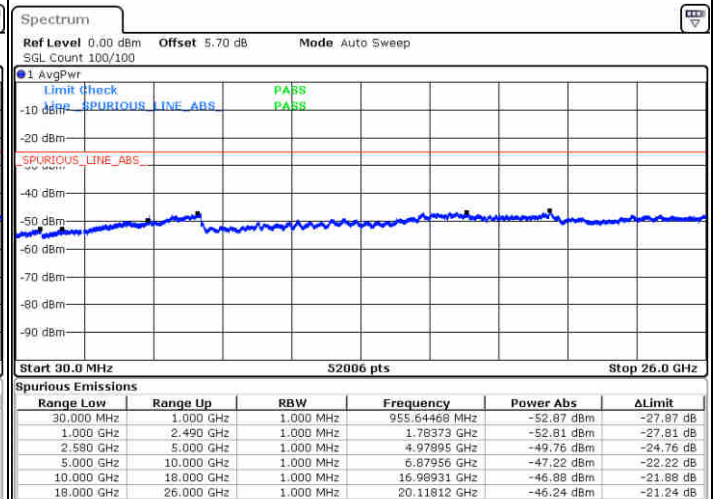
Date: 11 JUN 2018 18:52:13

Middle Channel / QPSK



Date: 11 JUN 2018 18:54:02

Middle Channel / 16QAM

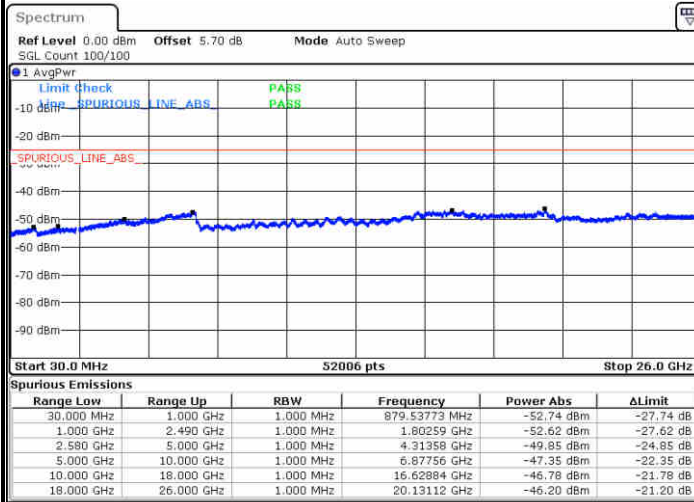


Date: 11 JUN 2018 18:54:57



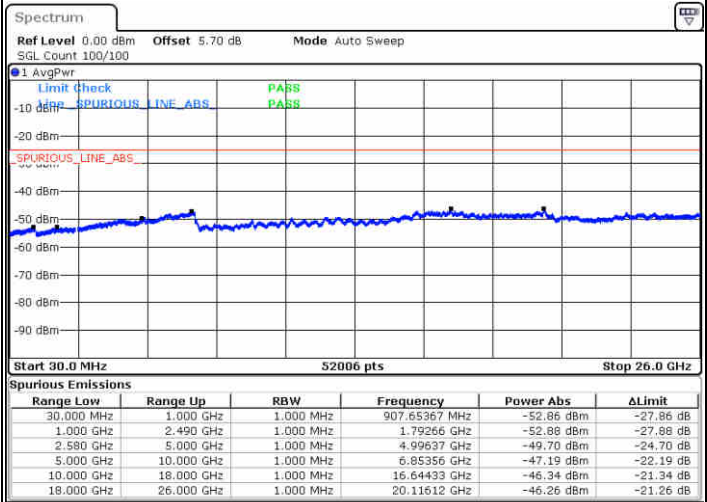
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 11 JUN 2018 19:02:46

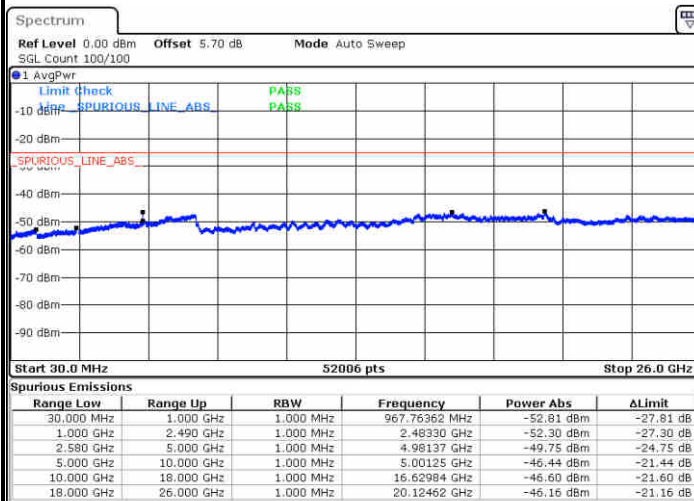
Highest Channel / 16QAM



Date: 11 JUN 2018 19:01:51

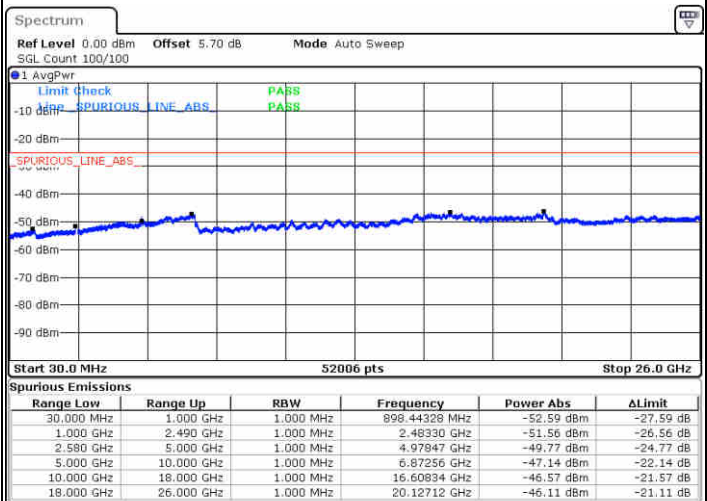
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 11 JUN 2018 19:09:55

Lowest Channel / 16QAM

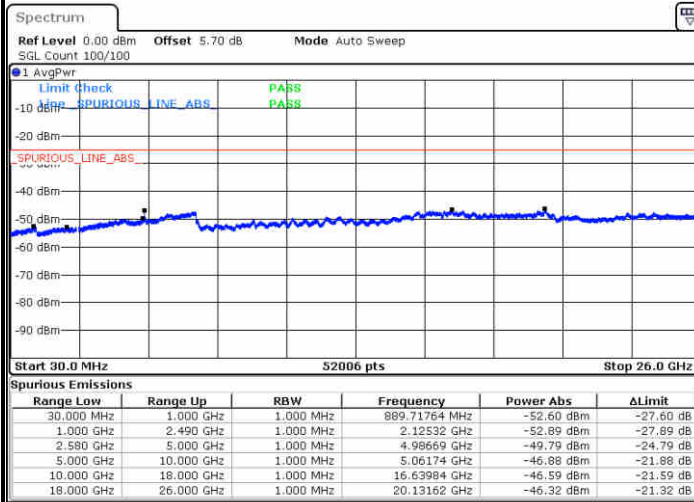


Date: 11 JUN 2018 19:09:00



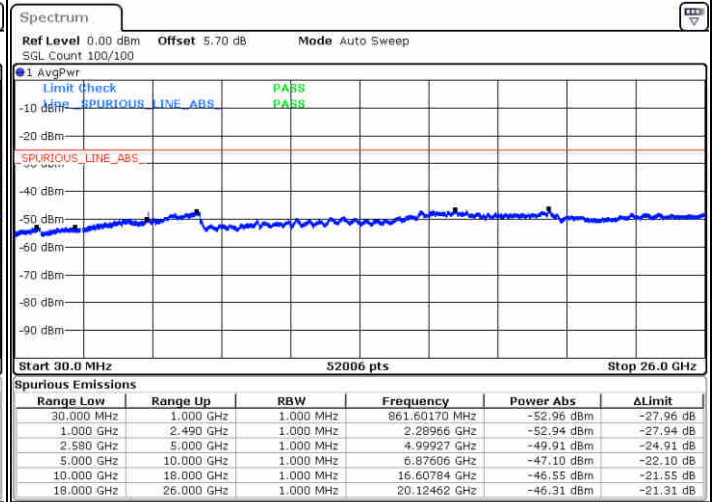
LTE Band 7 / 10MHz

Middle Channel / QPSK



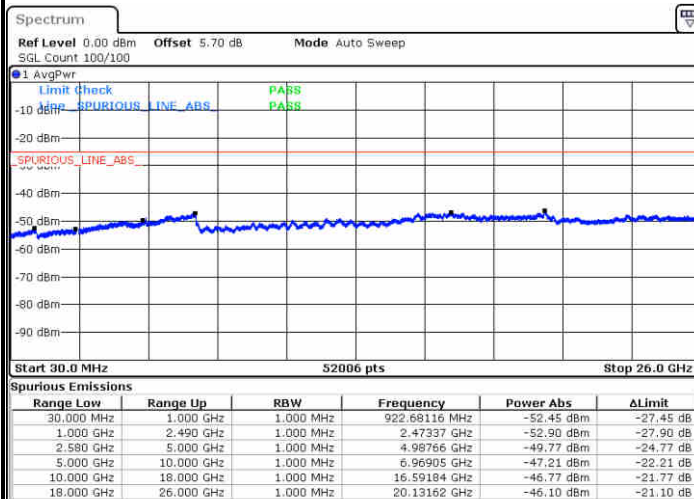
Date: 11 JUN 2018 19:10:49

Middle Channel / 16QAM



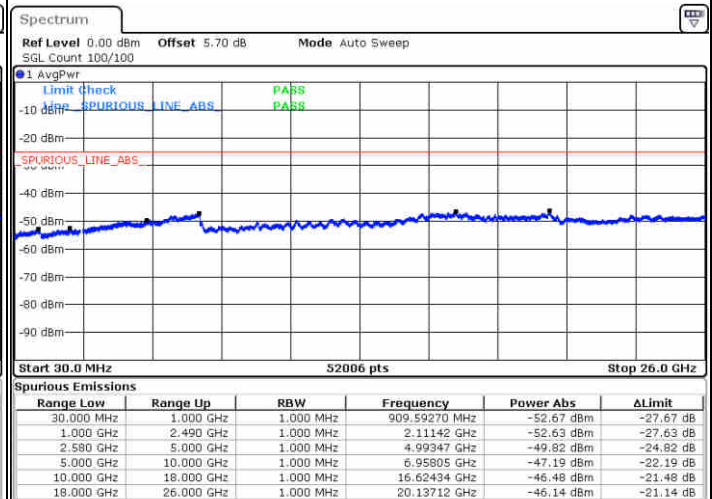
Date: 11 JUN 2018 19:11:44

Highest Channel / QPSK



Date: 11 JUN 2018 19:19:32

Highest Channel / 16QAM

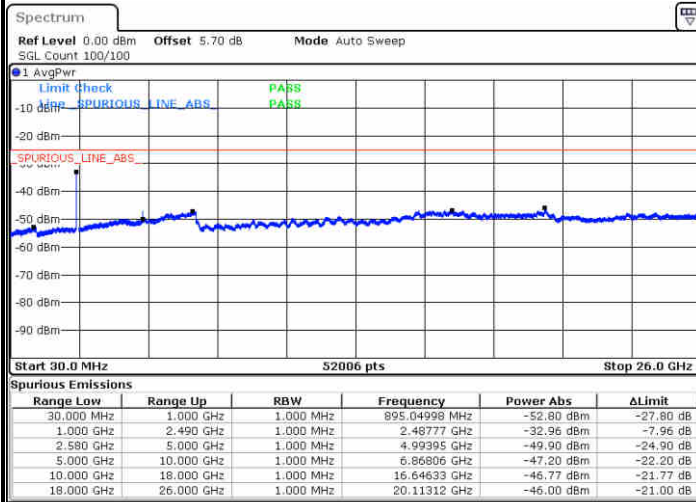


Date: 11 JUN 2018 19:18:38



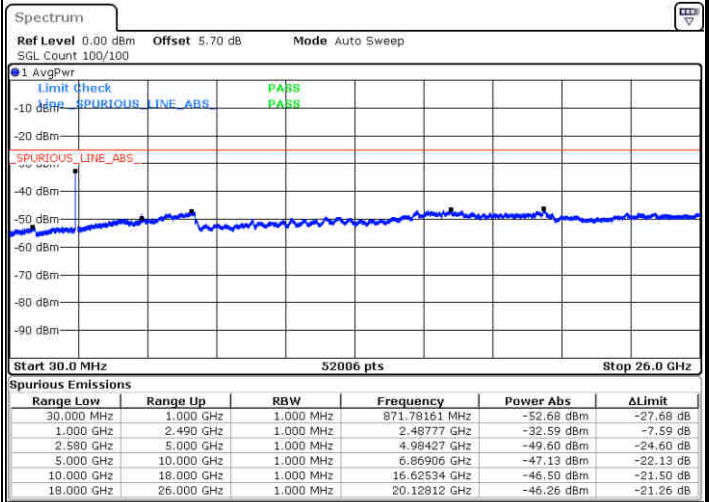
LTE Band 7 / 15MHz

Lowest Channel / QPSK



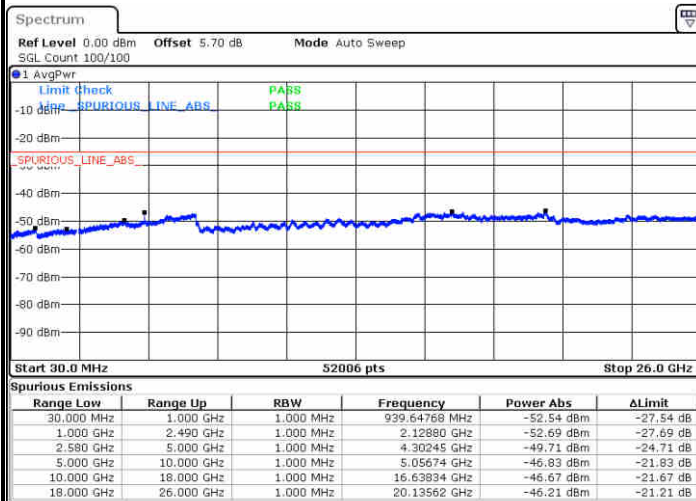
Date: 11 JUN 2018 19:26:42

Lowest Channel / 16QAM



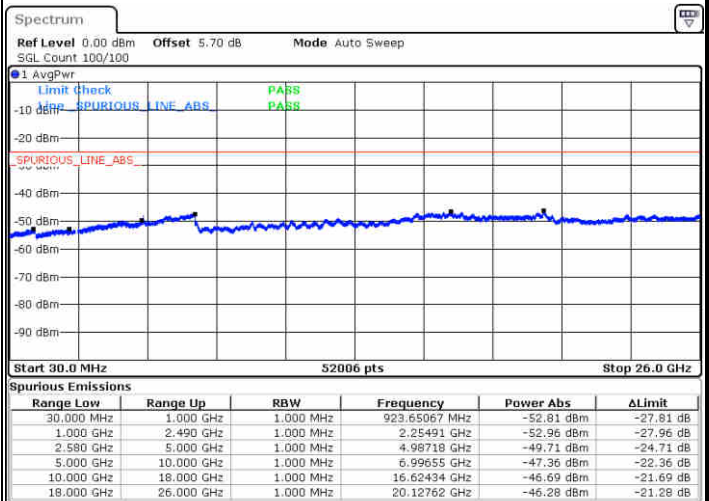
Date: 11 JUN 2018 19:25:47

Middle Channel / QPSK



Date: 11 JUN 2018 19:27:36

Middle Channel / 16QAM

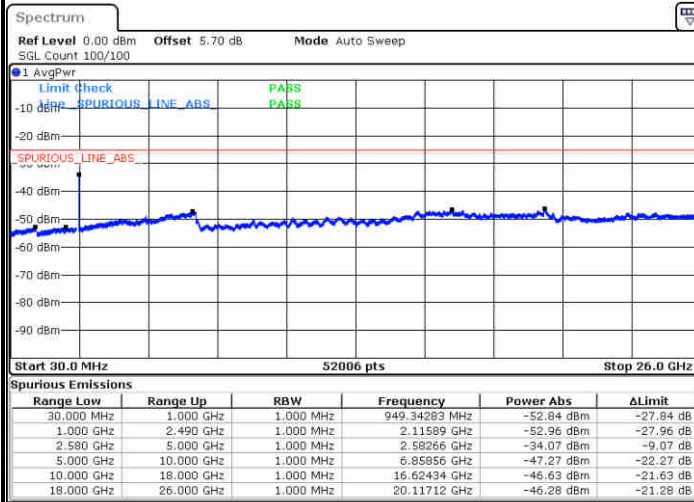


Date: 11 JUN 2018 19:28:31



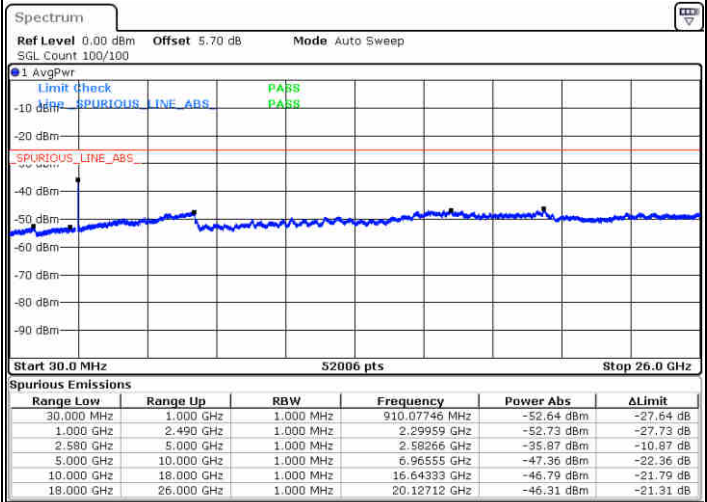
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 11 JUN 2018 19:36:20

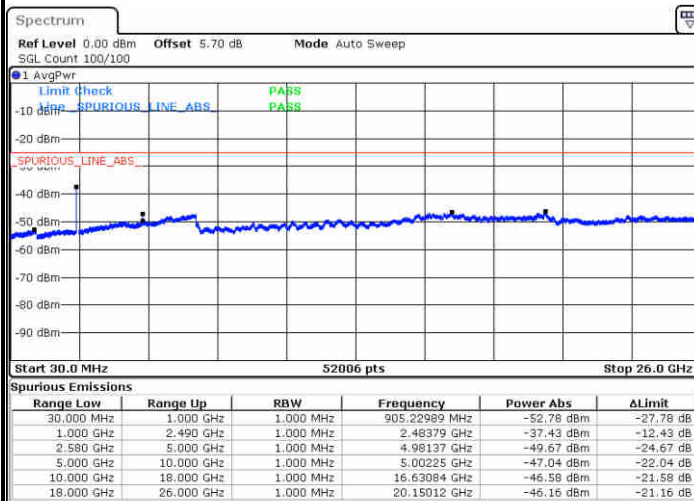
Highest Channel / 16QAM



Date: 11 JUN 2018 19:35:25

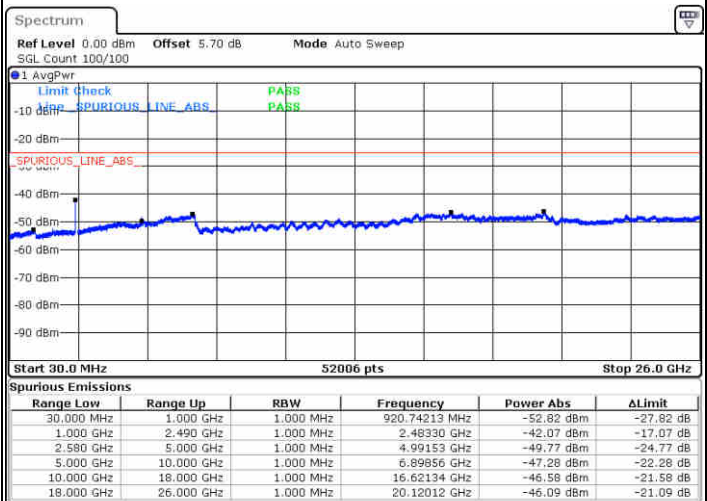
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 11 JUN 2018 20:00:03

Lowest Channel / 16QAM

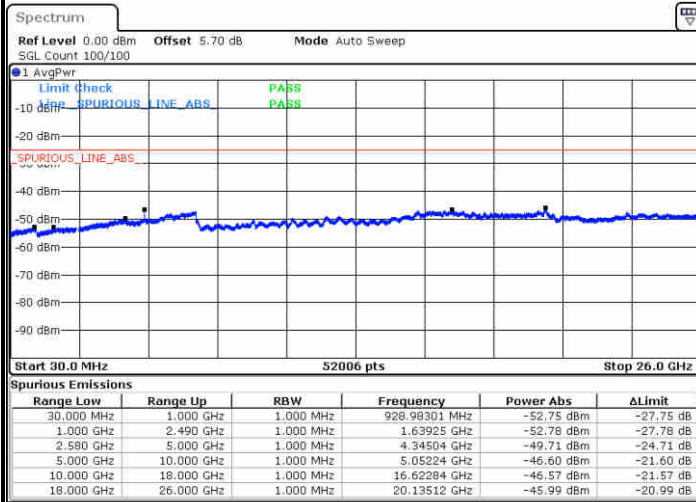


Date: 11 JUN 2018 19:59:08



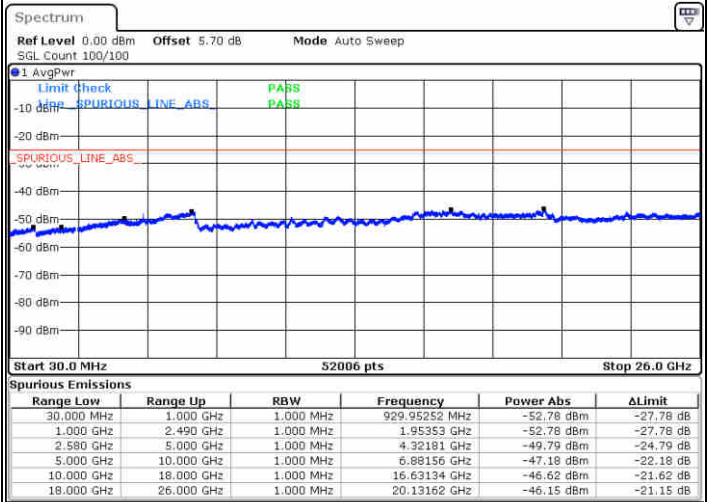
LTE Band 7 / 20MHz

Middle Channel / QPSK



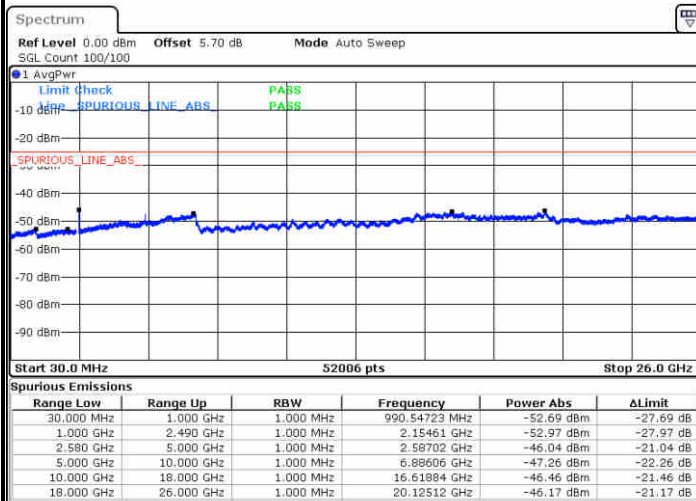
Date: 11 JUN 2018 20:00:58

Middle Channel / 16QAM



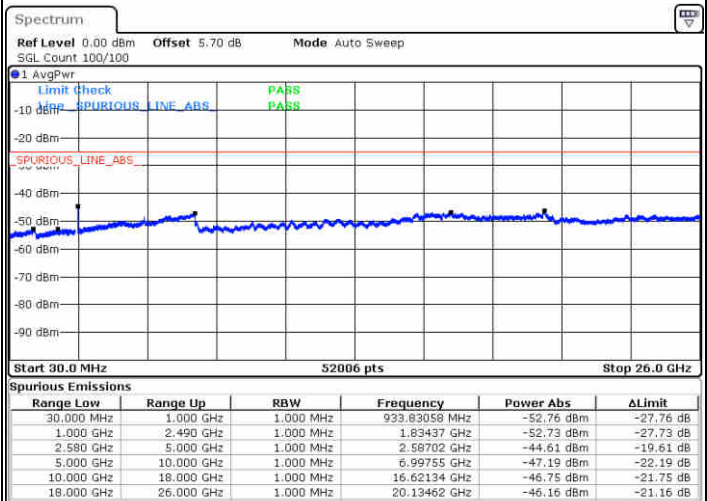
Date: 11 JUN 2018 20:01:52

Highest Channel / QPSK



Date: 11 JUN 2018 20:09:43

Highest Channel / 16QAM



Date: 11 JUN 2018 20:08:48

**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	0.0001	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 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	0.0085	PASS
40	Normal Voltage	0.0065	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0062	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0073	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0075	

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2V.



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	0.0034	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 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 / 20MHz / QPSK / RB Size 1 Offset 0								
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	-49.98	-13	-36.98	-51.70	5.08	6.80	H
	5613	-46.18	-13	-33.18	-47.85	8.03	9.70	H
	7485	-45.43	-13	-32.43	-47.81	9.43	11.81	H
	3741	-50.86	-13	-37.86	-52.58	5.08	6.80	V
	5613	-50.70	-13	-37.70	-52.37	8.03	9.70	V
	7485	-47.78	-13	-34.78	-50.16	9.43	11.81	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3447	-50.34	-13	-37.34	-54.31	4.87	8.84	H
	5172	-51.50	-13	-38.50	-52.94	7.70	9.14	H
	6894	-41.94	-13	-28.94	-43.63	8.98	10.66	H
	3447	-46.36	-13	-33.36	-50.33	4.87	8.84	V
	5172	-52.67	-13	-39.67	-54.11	7.70	9.14	V
	6894	-46.92	-13	-33.92	-48.61	8.98	10.66	V

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



LTE Band 5 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-52.48	-13	-39.48	-54.39	1.14	5.20	H
	2496	-59.85	-13	-46.85	-62.48	1.12	5.90	H
	3327	-59.26	-13	-46.26	-62.47	1.34	6.70	H
	1664	-53.17	-13	-40.17	-55.08	1.14	5.20	V
	2496	-59.36	-13	-46.36	-61.99	1.12	5.90	V
	3327	-59.02	-13	-46.02	-62.23	1.34	6.70	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5052	-43.15	-25	-18.15	-50.56	2.33	9.74	H
	7576	-41.78	-25	-16.78	-50.89	2.77	11.88	H
	10107	-58.07	-25	-33.07	-67.95	3.03	12.91	H
	12627	-52.47	-25	-27.47	-62.28	3.71	13.52	H
	15156	-47.16	-25	-22.16	-55.91	4.05	12.80	H
	5052	-44.87	-25	-19.87	-52.28	2.33	9.74	V
	7580	-39.48	-25	-14.48	-48.59	2.77	11.88	V
	10107	-55.64	-25	-30.64	-65.52	3.03	12.91	V
	12627	-53.94	-25	-28.94	-63.75	3.71	13.52	V
	15156	-50.00	-25	-25.00	-58.75	4.05	12.80	V

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