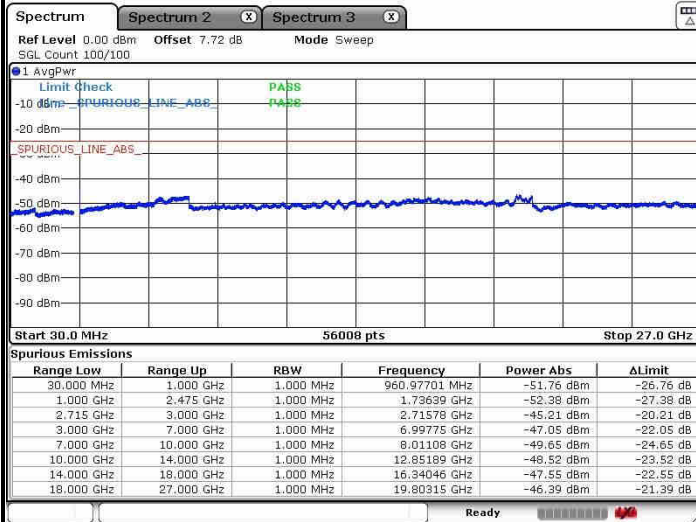




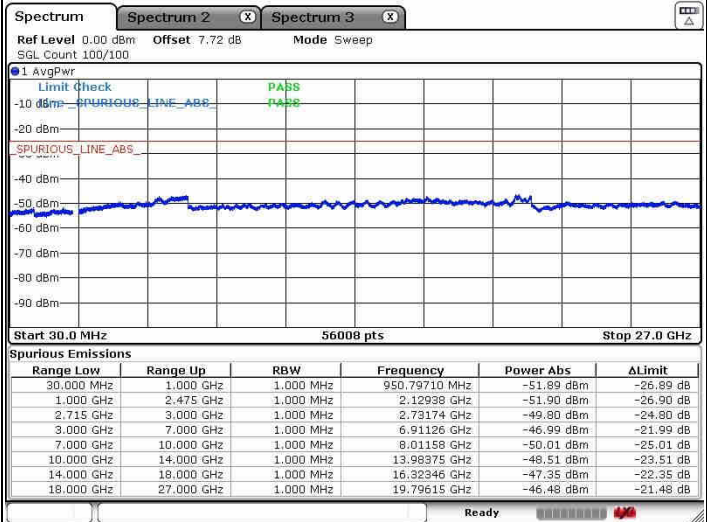
LTE Band 41 / 10MHz+20MHz

Highest Channel / QPSK



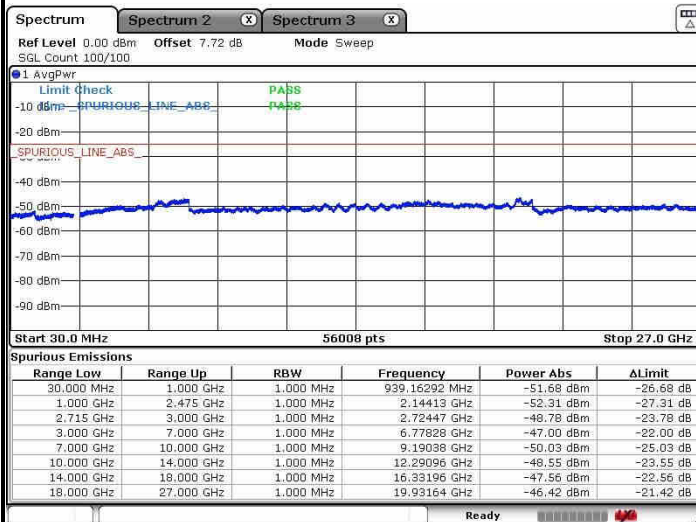
Date: 12 DEC 2018 10:36:20

Highest Channel / 16QAM



Date: 12 DEC 2018 10:35:29

Highest Channel / 64QAM



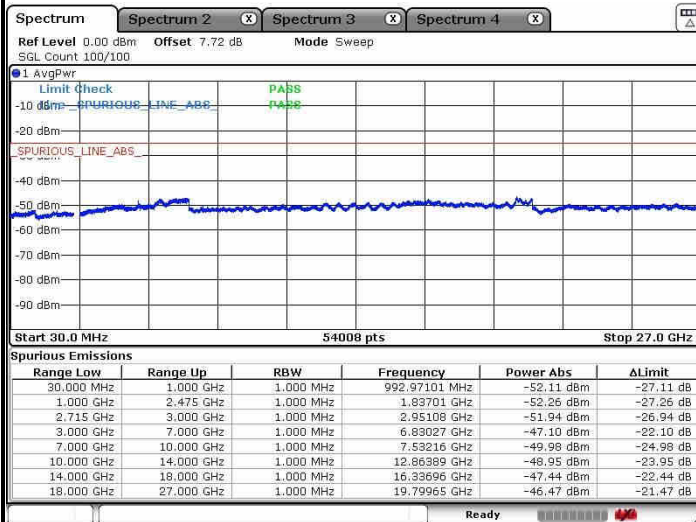
Date: 12 DEC 2018 10:34:35

N/A



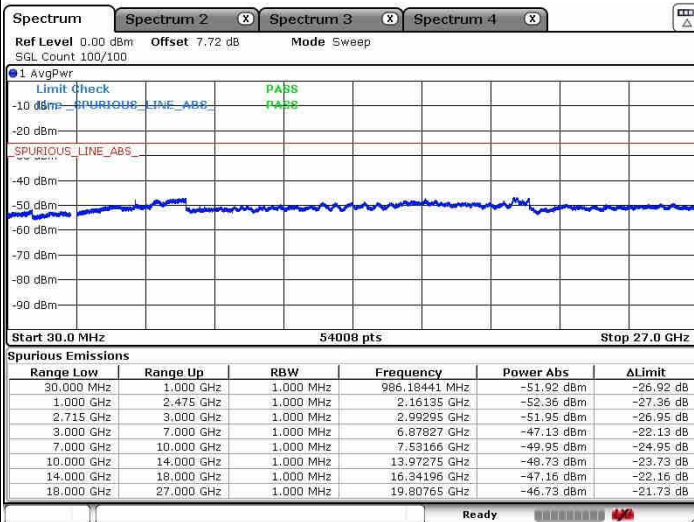
LTE Band 41 / 15MHz+10MHz

Lowest Channel / QPSK



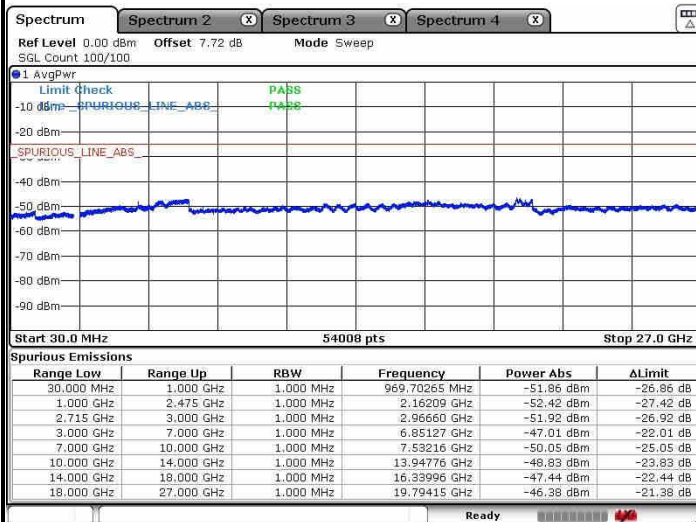
Date: 11.DEC.2018 11:08:03

Lowest Channel / 16QAM



Date: 11.DEC.2018 11:07:12

Lowest Channel / 64QAM



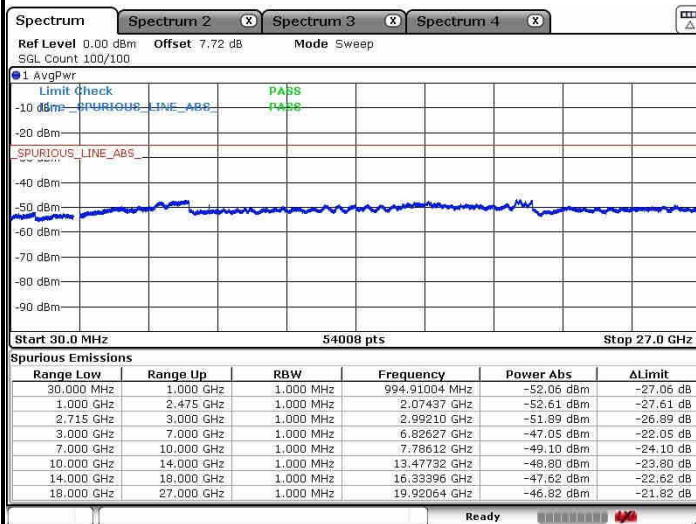
Date: 11.DEC.2018 11:06:14

N/A



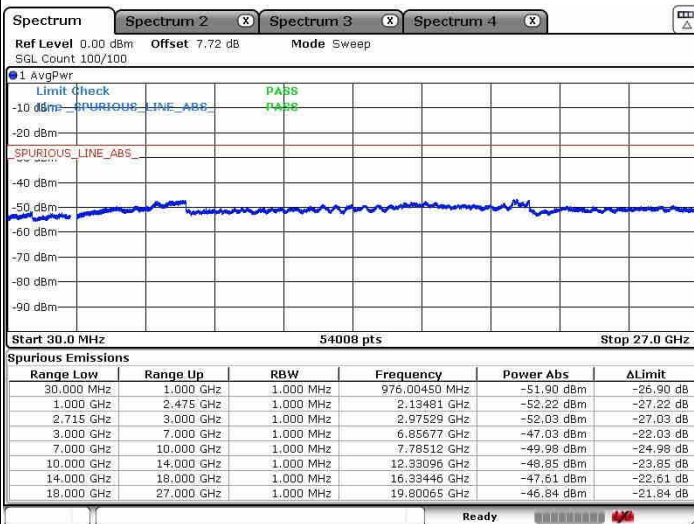
LTE Band 41 / 15MHz+10MHz

Middle Channel / QPSK



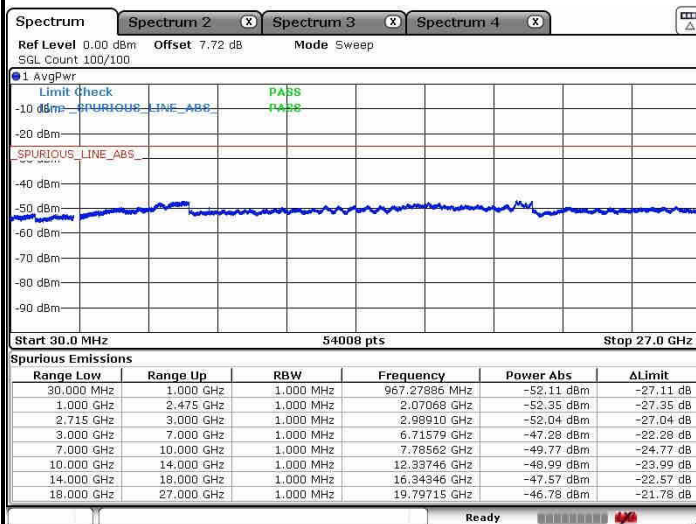
Date: 11.DEC.2018 11:09:38

Middle Channel / 16QAM



Date: 11.DEC.2018 11:10:36

Middle Channel / 64QAM



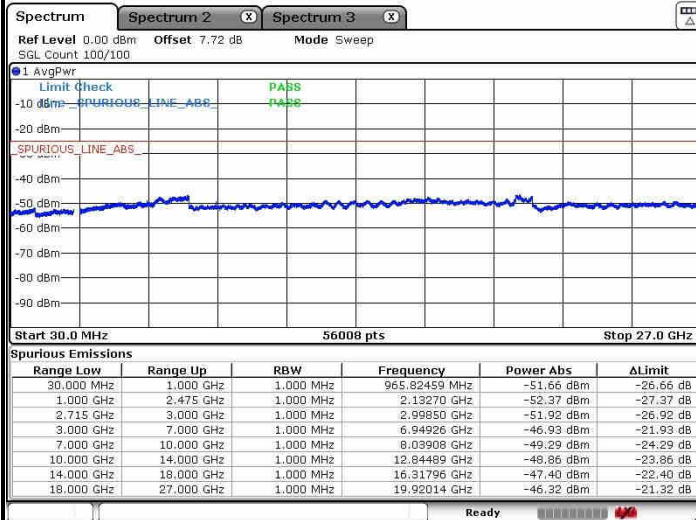
Date: 11.DEC.2018 11:11:28

N/A



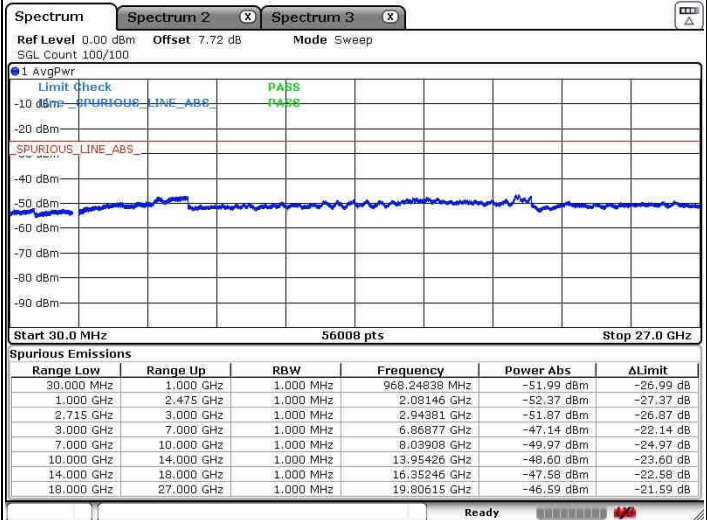
LTE Band 41 / 15MHz+10MHz

Highest Channel / QPSK



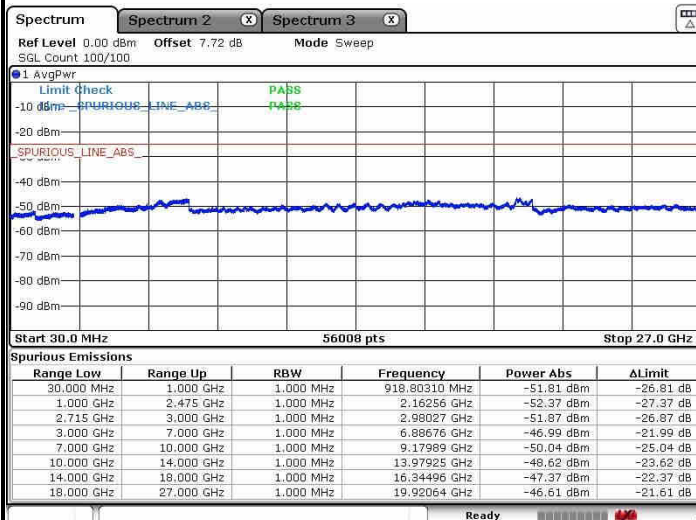
Date: 12 DEC 2018 10:29:31

Highest Channel / 16QAM



Date: 12 DEC 2018 10:28:36

Highest Channel / 64QAM



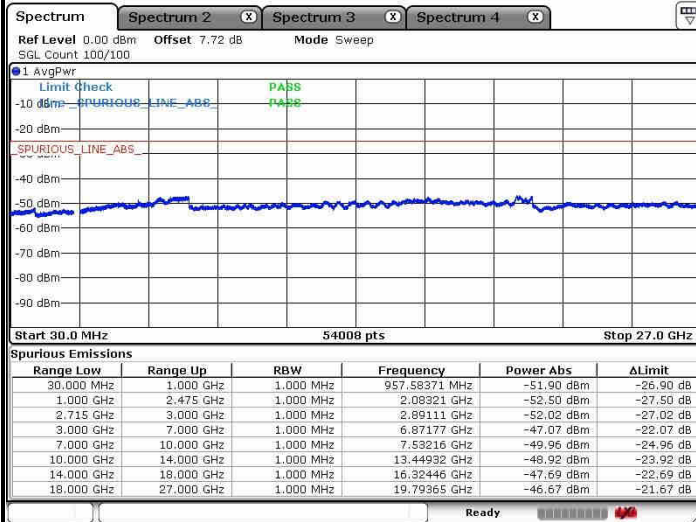
Date: 12 DEC 2018 10:27:44

N/A



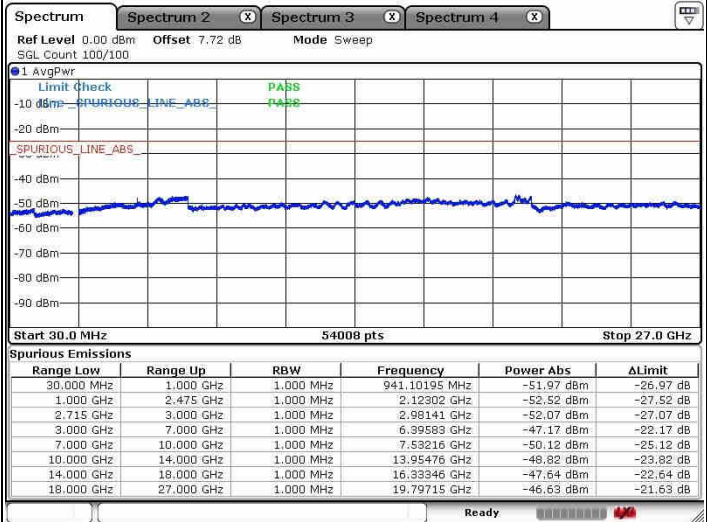
LTE Band 41 / 15MHz+15MHz

Lowest Channel / QPSK



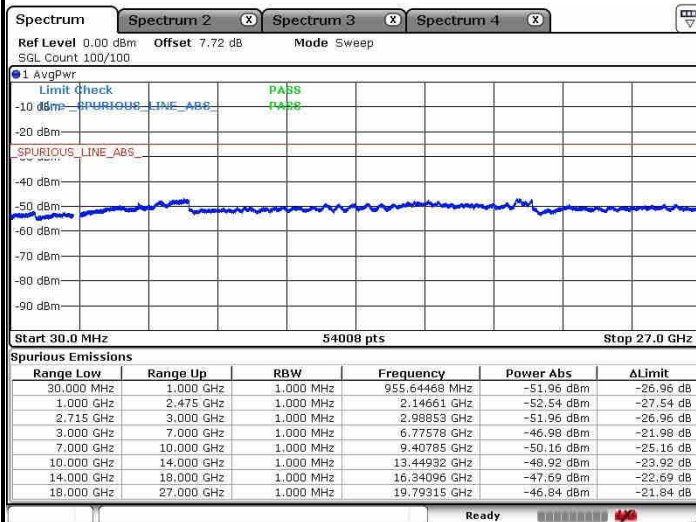
Date: 11 DEC 2018 14:02:17

Lowest Channel / 16QAM



Date: 11 DEC 2018 14:01:29

Lowest Channel / 64QAM



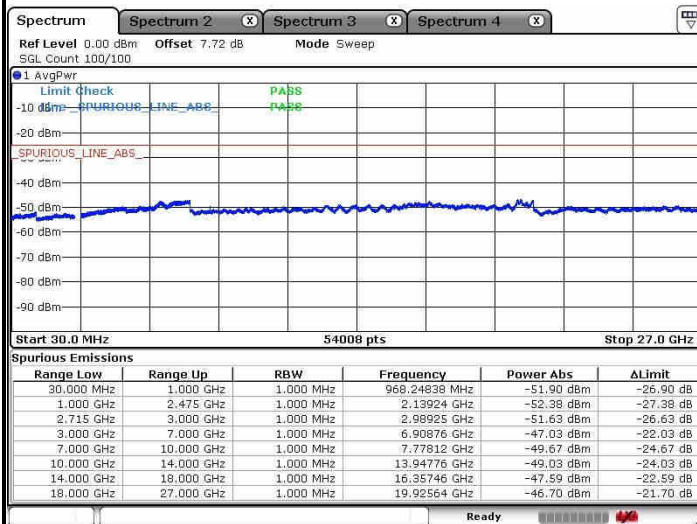
Date: 11 DEC 2018 14:00:31

N/A



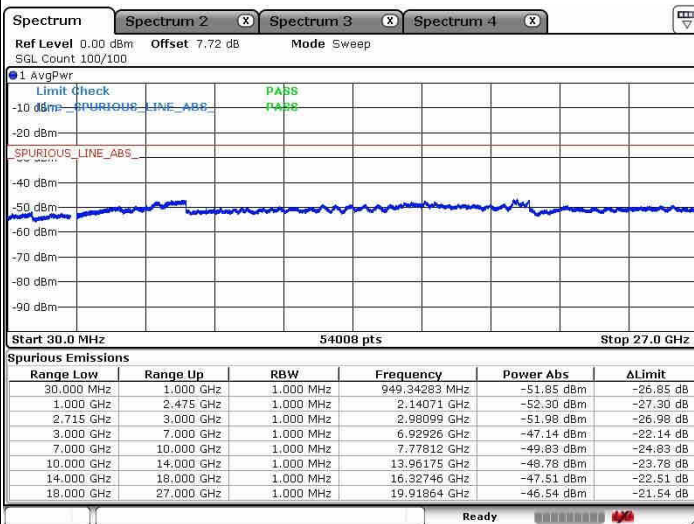
LTE Band 41 / 15MHz+15MHz

Middle Channel / QPSK



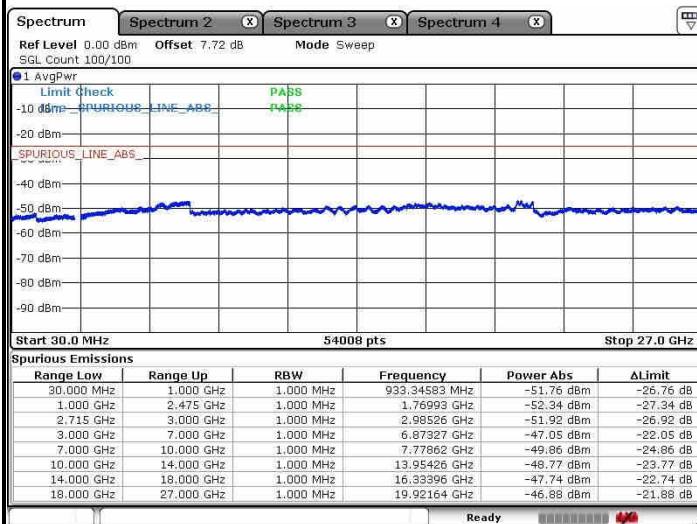
Date: 11.DEC.2018 14:13:52

Middle Channel / 16QAM



Date: 11.DEC.2018 14:13:02

Middle Channel / 64QAM



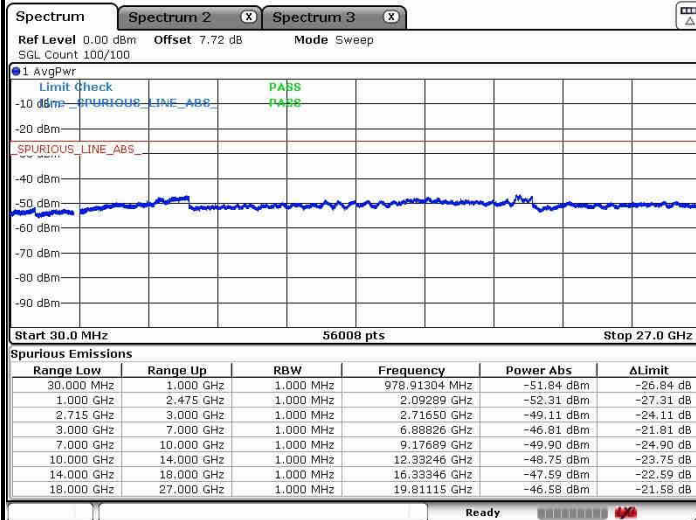
Date: 11.DEC.2018 14:12:08

N/A



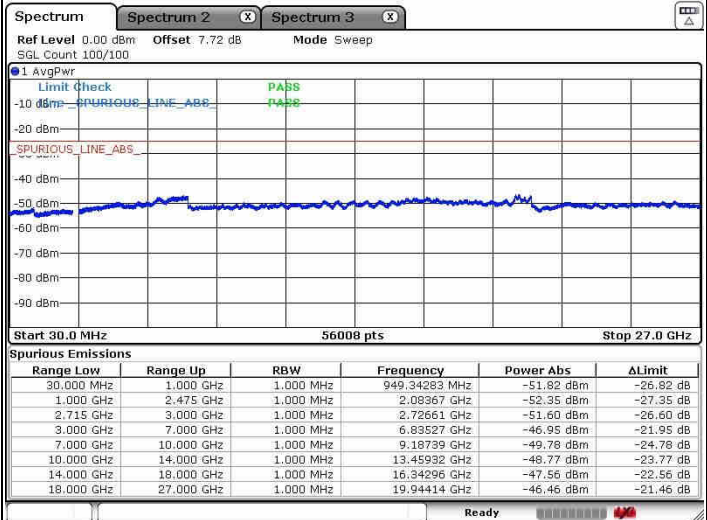
LTE Band 41 / 15MHz+15MHz

Highest Channel / QPSK



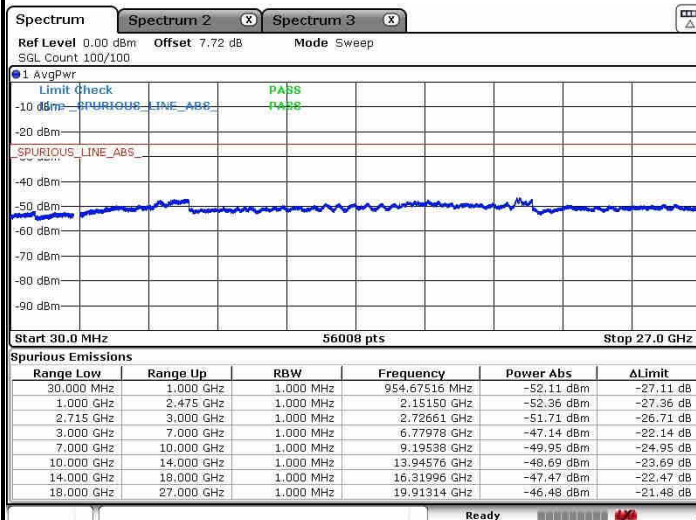
Date: 12 DEC 2018 11:08:57

Highest Channel / 16QAM



Date: 12 DEC 2018 11:07:48

Highest Channel / 64QAM



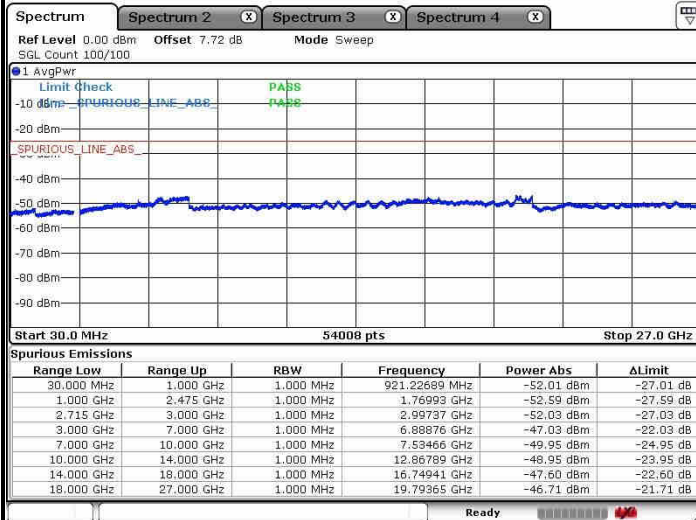
Date: 12 DEC 2018 11:08:53

N/A



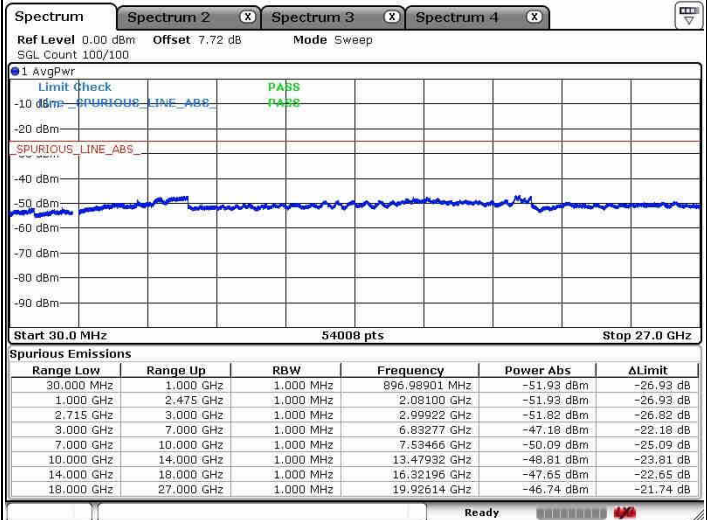
LTE Band 41 / 15MHz+20MHz

Lowest Channel / QPSK



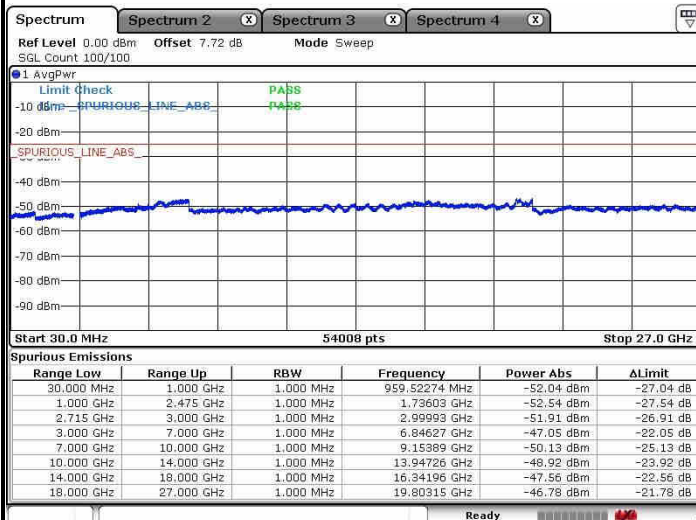
Date: 11.DEC.2018 14:23:41

Lowest Channel / 16QAM



Date: 11.DEC.2018 14:22:51

Lowest Channel / 64QAM



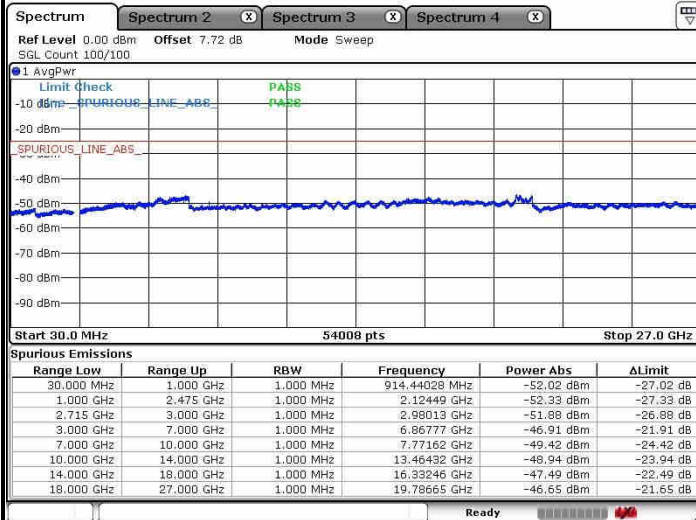
Date: 11.DEC.2018 14:21:57

N/A



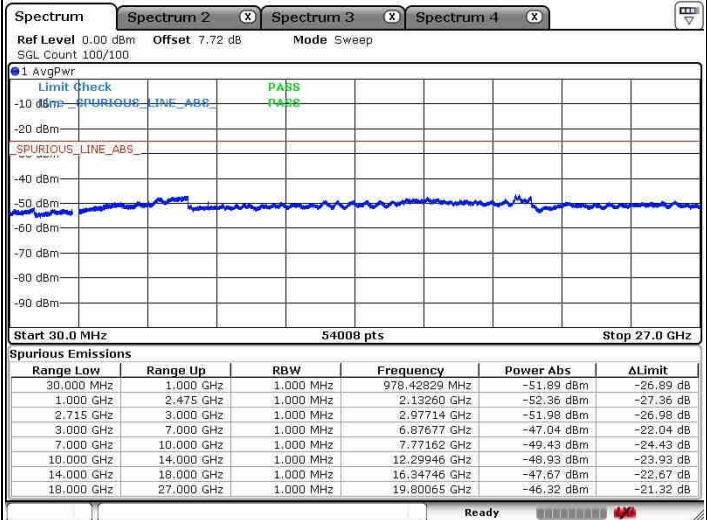
LTE Band 41 / 15MHz+20MHz

Middle Channel / QPSK



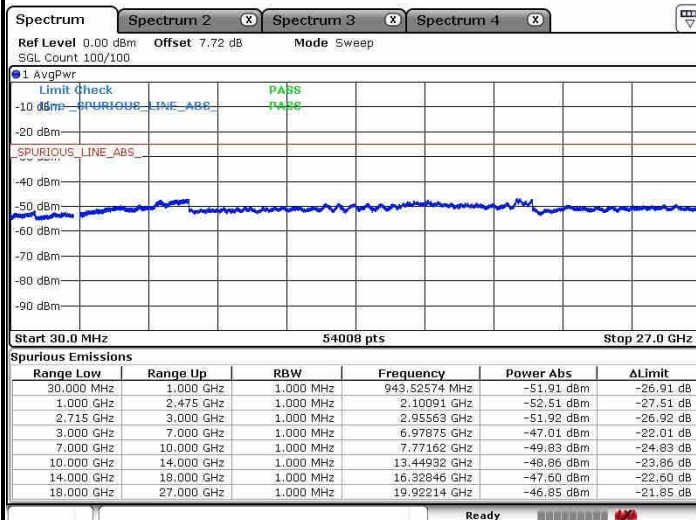
Date: 11 DEC 2018 14:25:05

Middle Channel / 16QAM



Date: 11 DEC 2018 14:26:01

Middle Channel / 64QAM



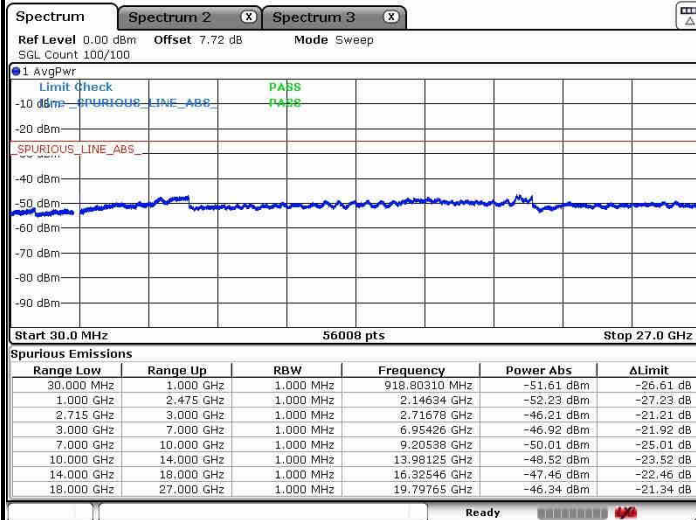
Date: 11 DEC 2018 14:26:55

N/A



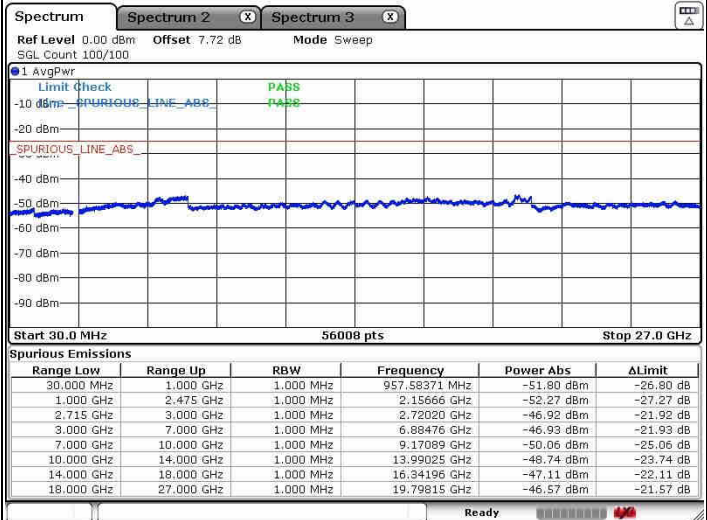
LTE Band 41 / 15MHz+20MHz

Highest Channel / QPSK



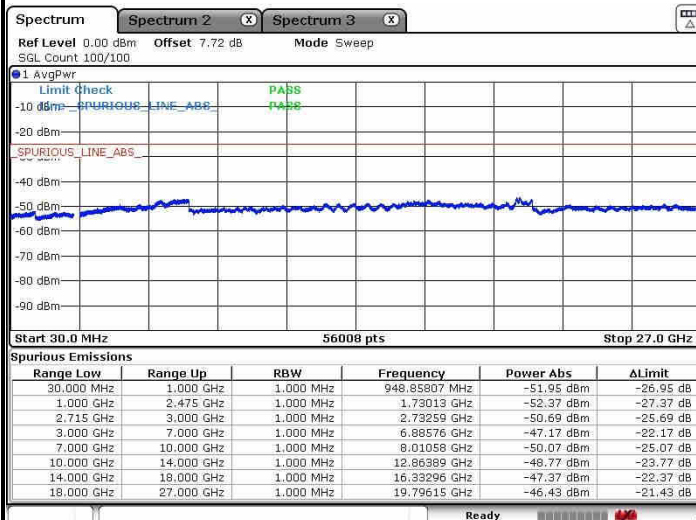
Date: 12 DEC 2018 11:11:33

Highest Channel / 16QAM



Date: 12 DEC 2018 11:12:29

Highest Channel / 64QAM



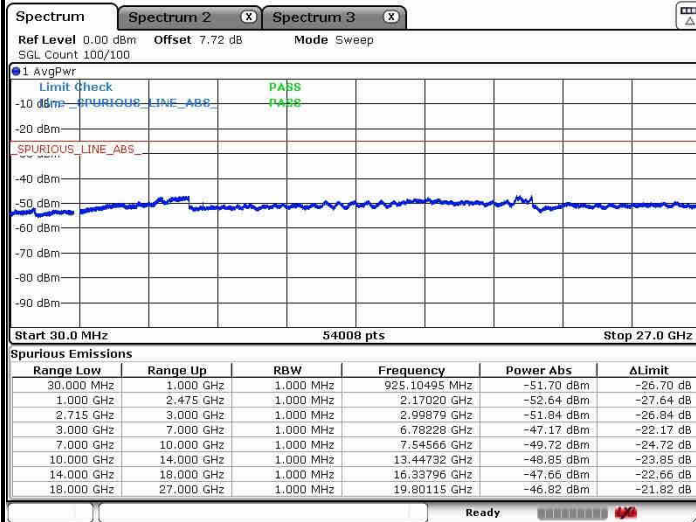
Date: 12 DEC 2018 11:13:20

N/A



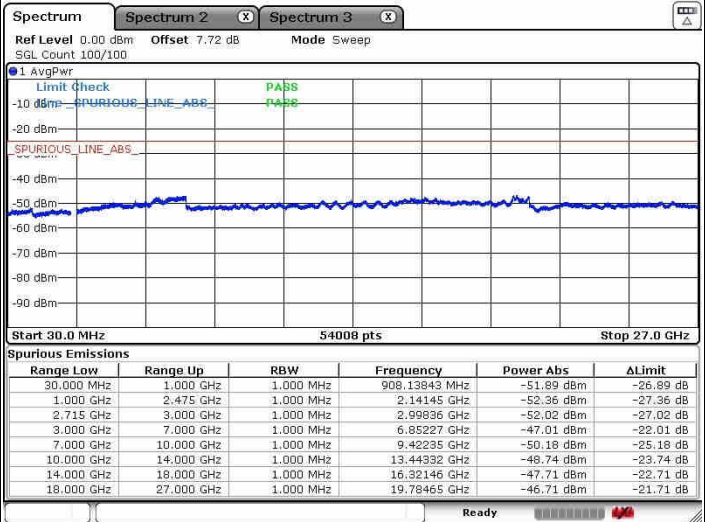
LTE Band 41 / 20MHz+5MHz

Lowest Channel / QPSK



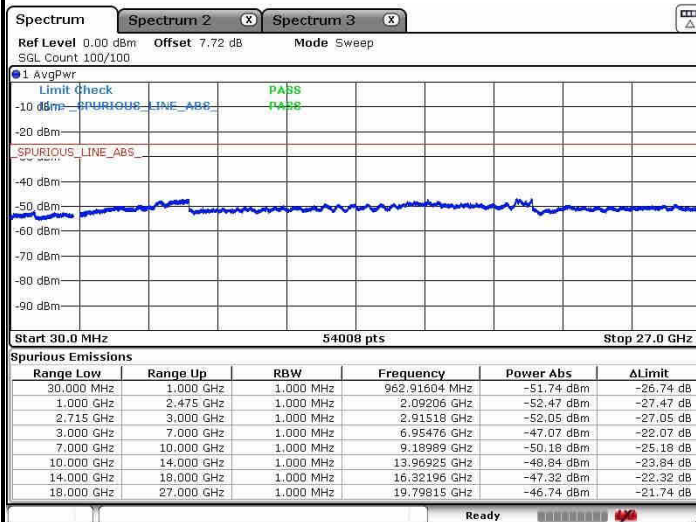
Date: 11.DEC.2018 09:58:14

Lowest Channel / 16QAM



Date: 11.DEC.2018 09:59:17

Lowest Channel / 64QAM



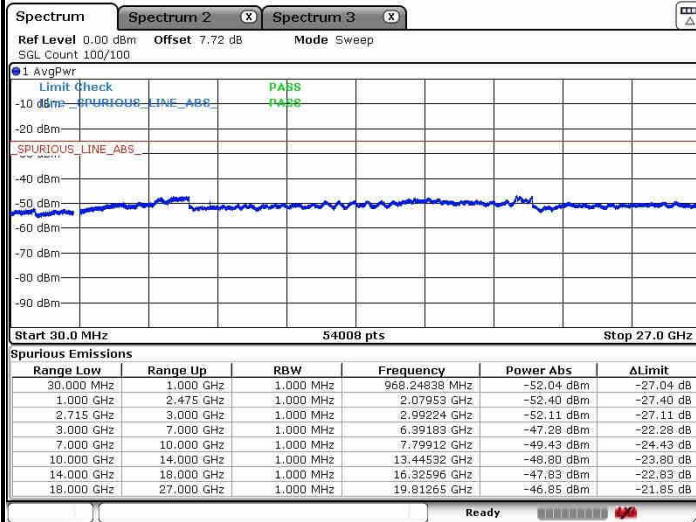
Date: 11.DEC.2018 10:00:08

N/A



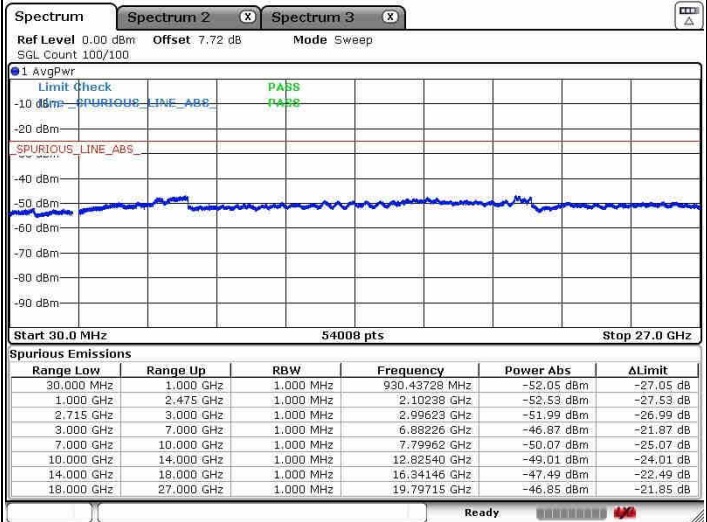
LTE Band 41 / 20MHz+5MHz

Middle Channel / QPSK



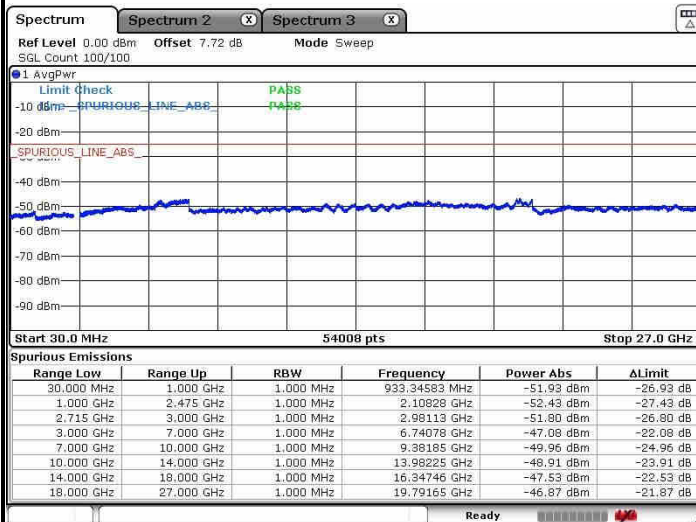
Date: 11 DEC 2018 10:05:02

Middle Channel / 16QAM



Date: 11 DEC 2018 10:05:59

Middle Channel / 64QAM



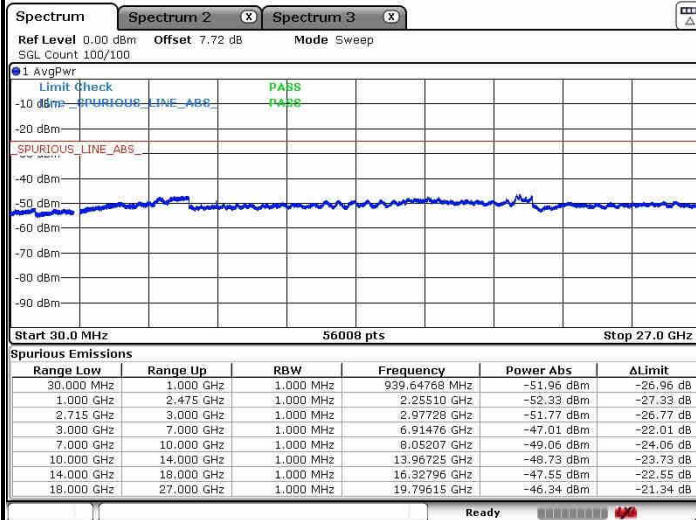
Date: 11 DEC 2018 10:06:53

N/A



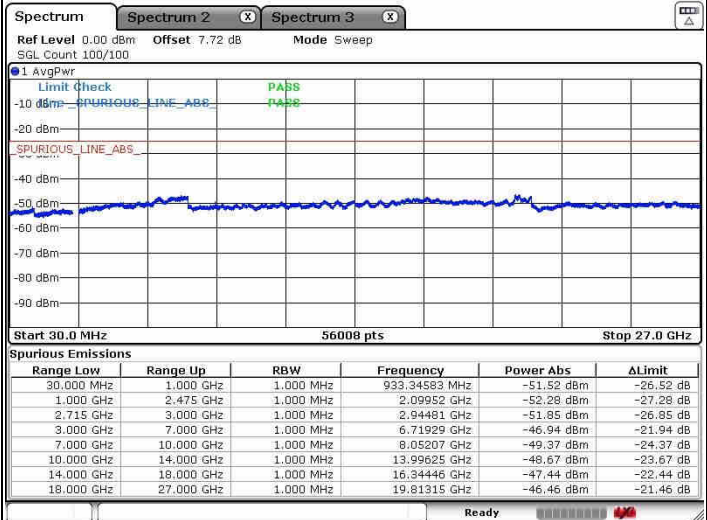
LTE Band 41 / 20MHz+5MHz

Highest Channel / QPSK



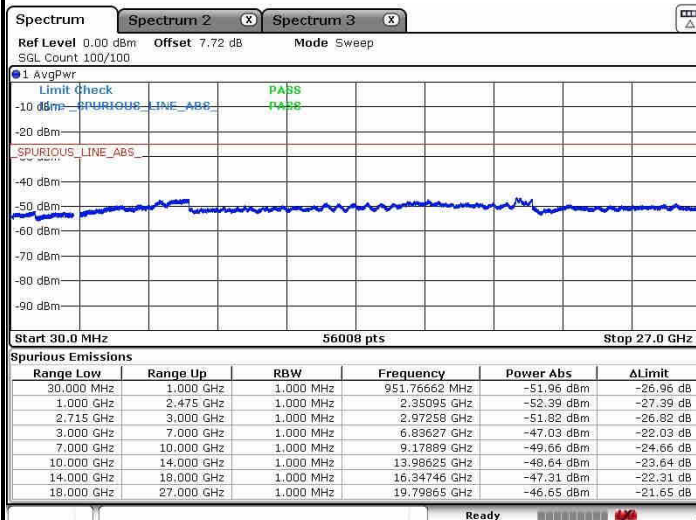
Date: 12 DEC 2018 09:59:44

Highest Channel / 16QAM



Date: 12 DEC 2018 10:00:42

Highest Channel / 64QAM



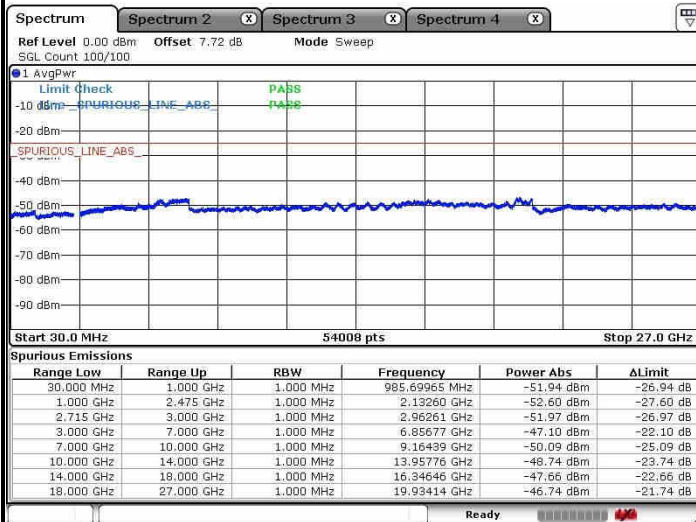
Date: 12 DEC 2018 10:01:40

N/A



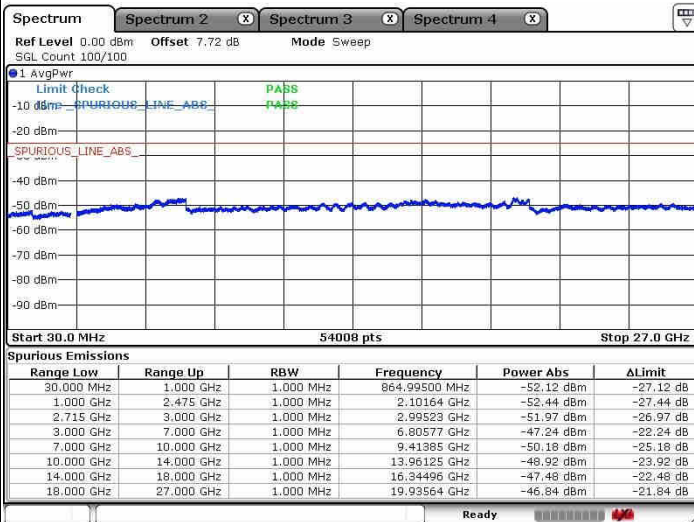
LTE Band 41 / 20MHz+10MHz

Lowest Channel / QPSK



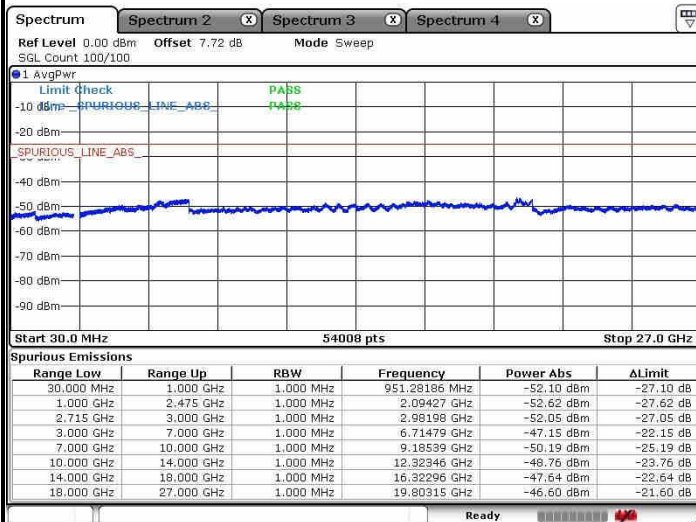
Date: 11.DEC.2018 13:44:29

Lowest Channel / 16QAM



Date: 11.DEC.2018 13:43:16

Lowest Channel / 64QAM



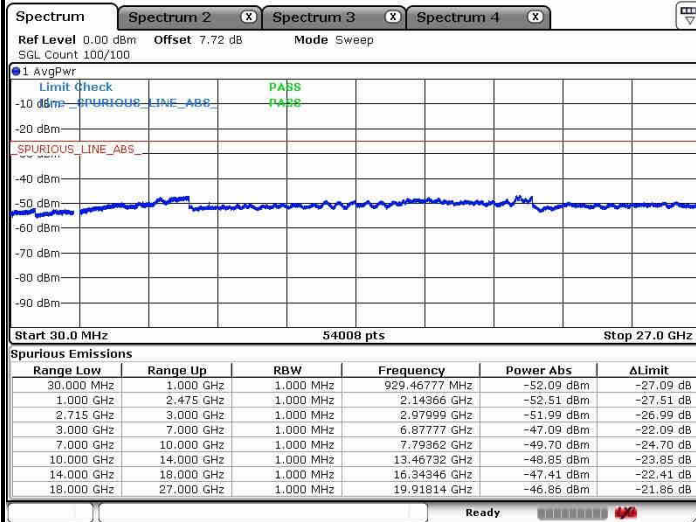
Date: 11.DEC.2018 13:42:21

N/A



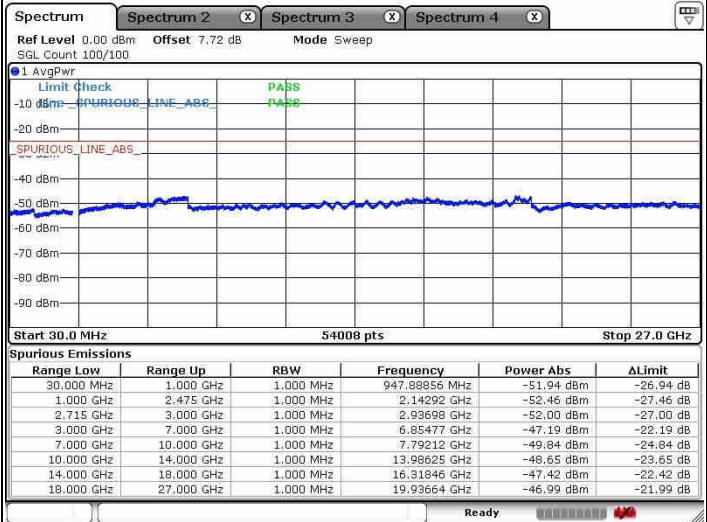
LTE Band 41 / 20MHz+10MHz

Middle Channel / QPSK



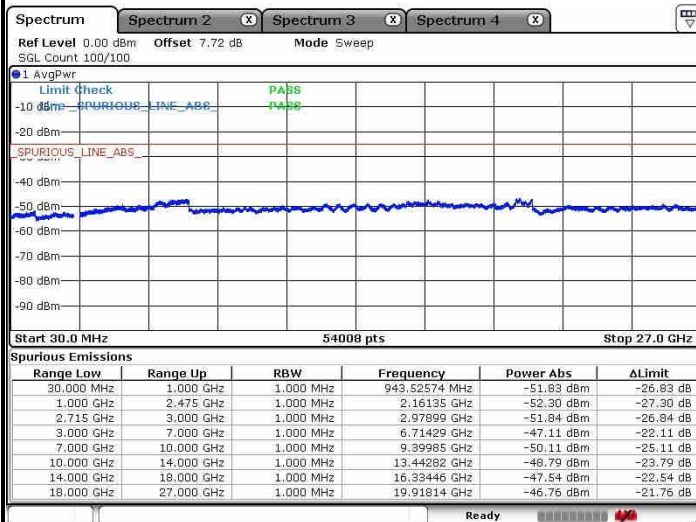
Date: 11 DEC 2018 13:46:06

Middle Channel / 16QAM



Date: 11 DEC 2018 13:46:59

Middle Channel / 64QAM



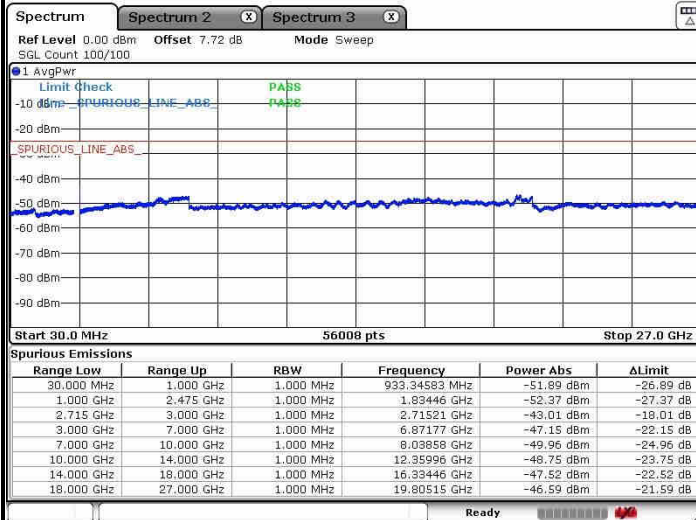
Date: 11 DEC 2018 13:47:50

N/A



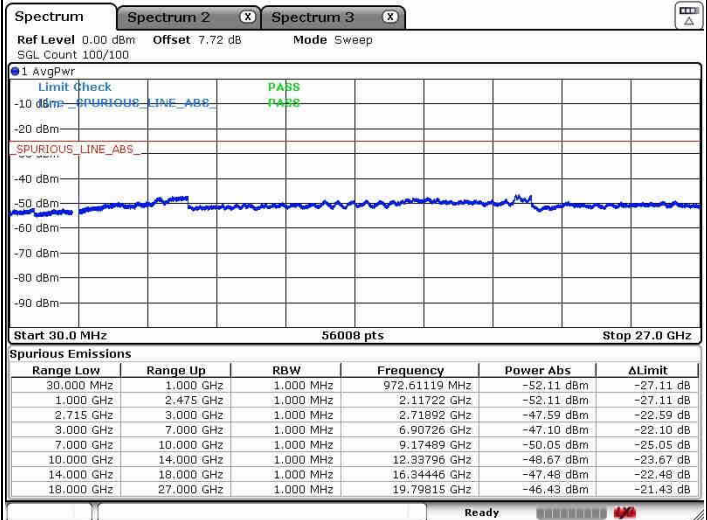
LTE Band 41 / 20MHz+10MHz

Highest Channel / QPSK



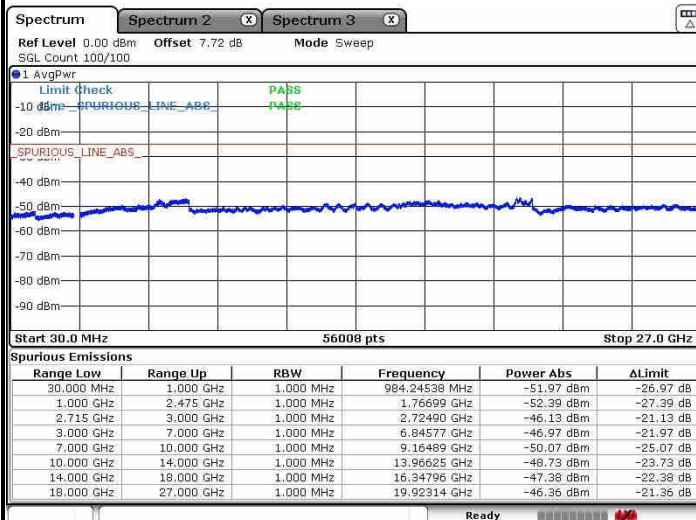
Date: 12 DEC 2018 11:01:20

Highest Channel / 16QAM



Date: 12 DEC 2018 11:00:22

Highest Channel / 64QAM



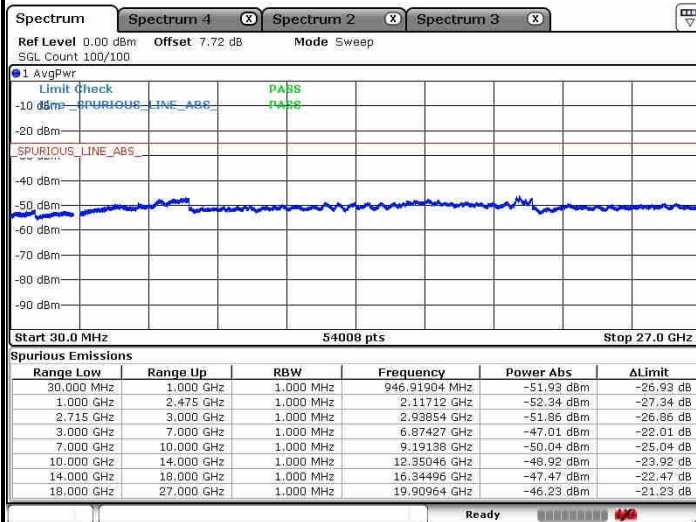
Date: 12 DEC 2018 10:57:57

N/A



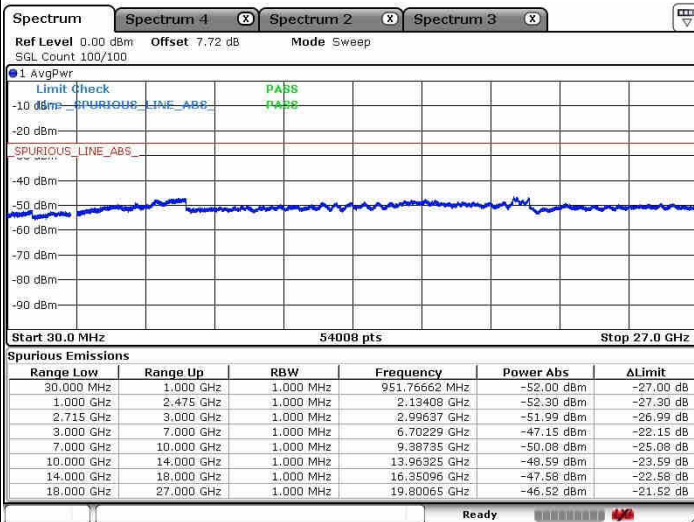
LTE Band 41 / 20MHz+15MHz

Lowest Channel / QPSK



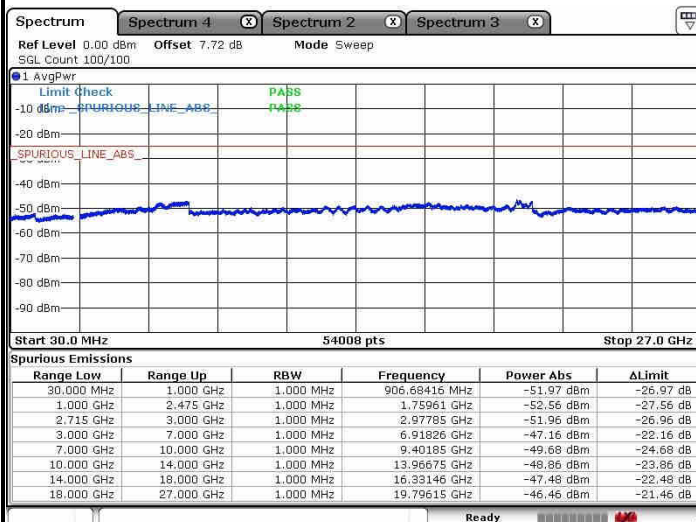
Date: 11 DEC 2018 16:39:32

Lowest Channel / 16QAM



Date: 11 DEC 2018 16:40:44

Lowest Channel / 64QAM



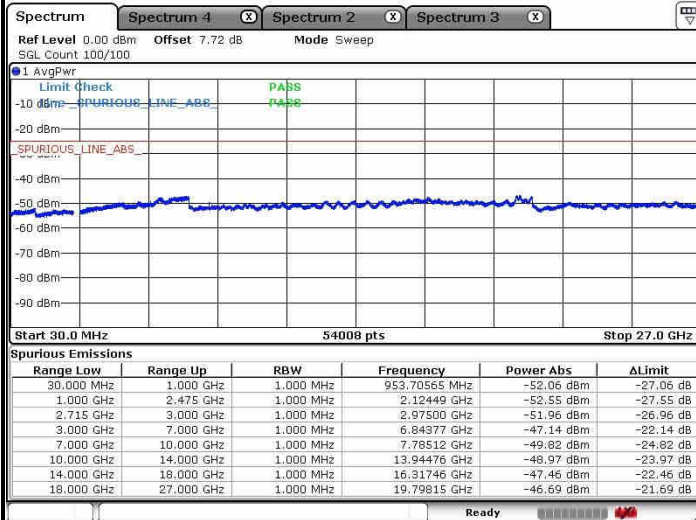
Date: 11 DEC 2018 16:41:38

N/A



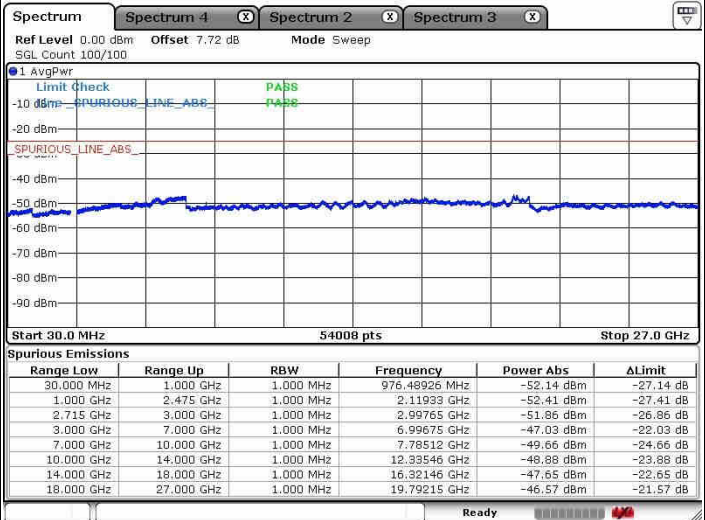
LTE Band 41 / 20MHz+15MHz

Middle Channel / QPSK



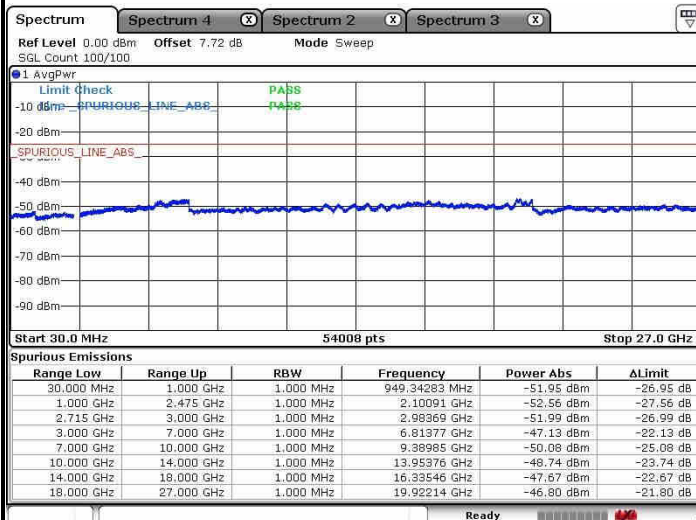
Date: 11 DEC 2018 16:51:34

Middle Channel / 16QAM



Date: 11 DEC 2018 16:50:43

Middle Channel / 64QAM



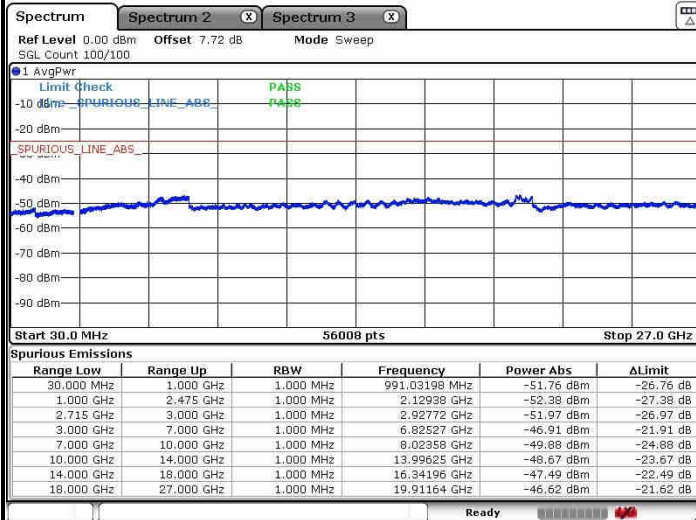
Date: 11 DEC 2018 16:48:45

N/A



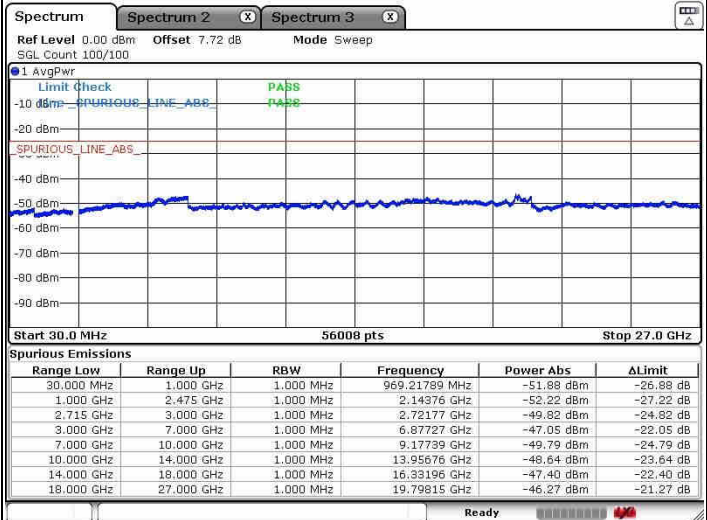
LTE Band 41 / 20MHz+15MHz

Highest Channel / QPSK



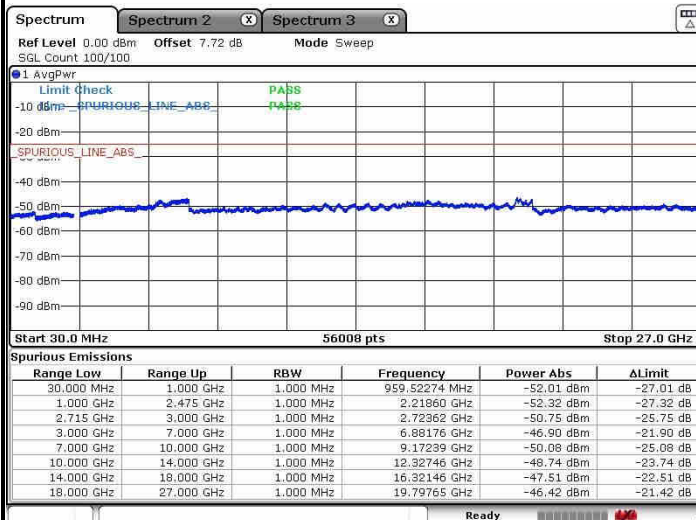
Date: 12 DEC 2018 11:27:38

Highest Channel / 16QAM



Date: 12 DEC 2018 11:26:44

Highest Channel / 64QAM



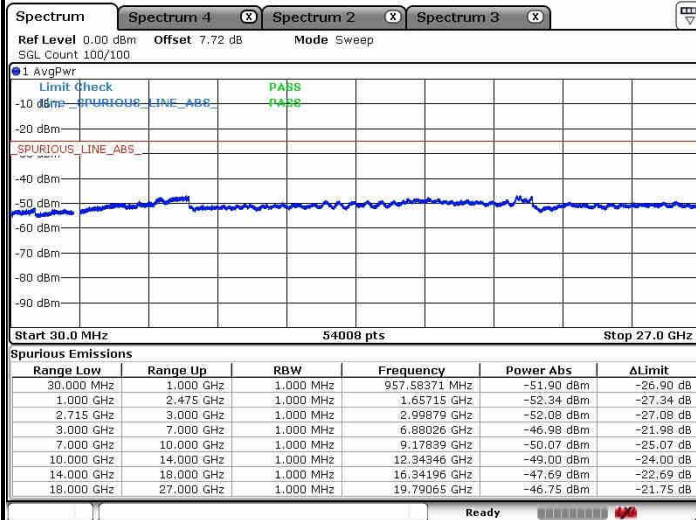
Date: 12 DEC 2018 11:25:53

N/A



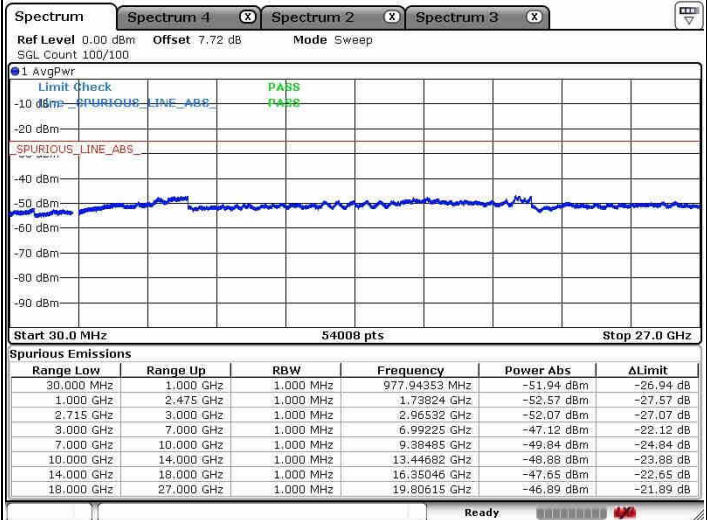
LTE Band 41 / 20MHz+20MHz

Lowest Channel / QPSK



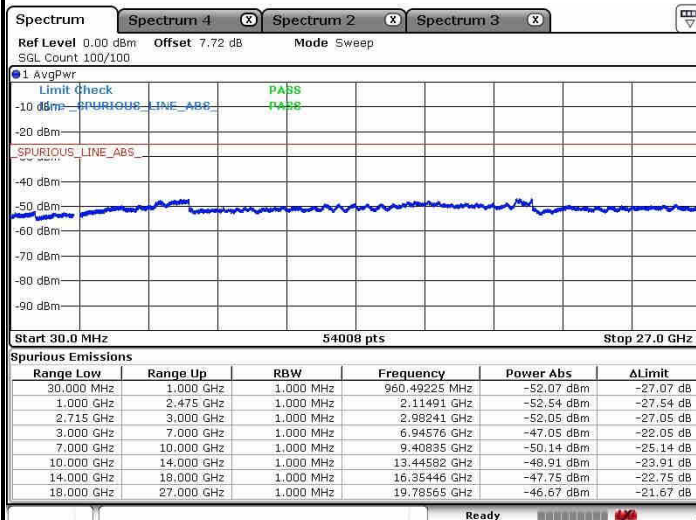
Date: 11 DEC 2018 16:53:22

Lowest Channel / 16QAM



Date: 11 DEC 2018 16:58:00

Lowest Channel / 64QAM



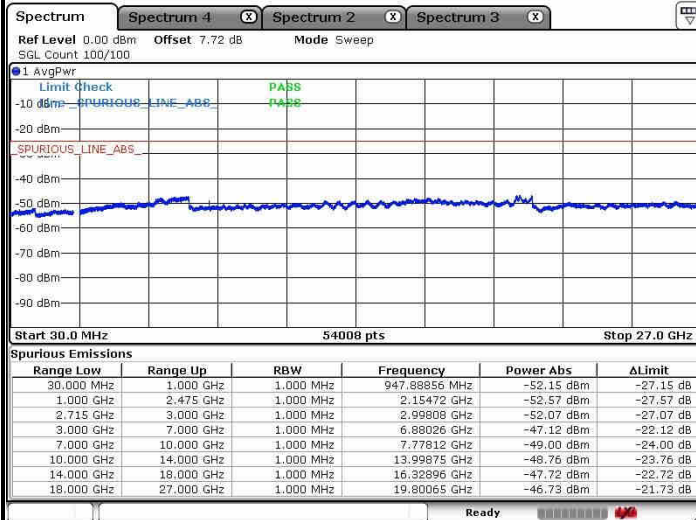
Date: 11 DEC 2018 16:59:00

N/A



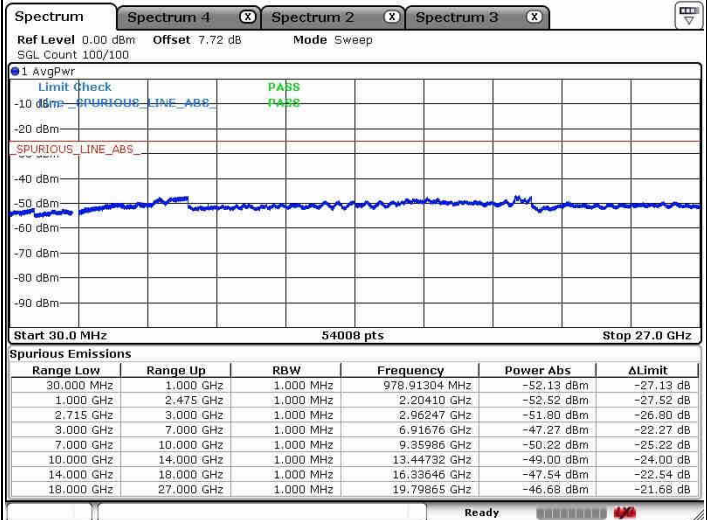
LTE Band 41 / 20MHz+20MHz

MiddleChannel / QPSK



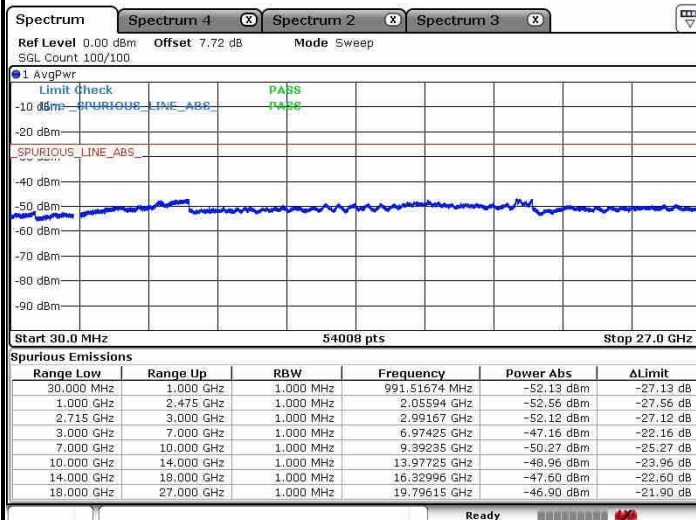
Date: 11 DEC 2018 17:10:00

Middle Channel / 16QAM



Date: 11 DEC 2018 17:08:59

Middle Channel / 64QAM



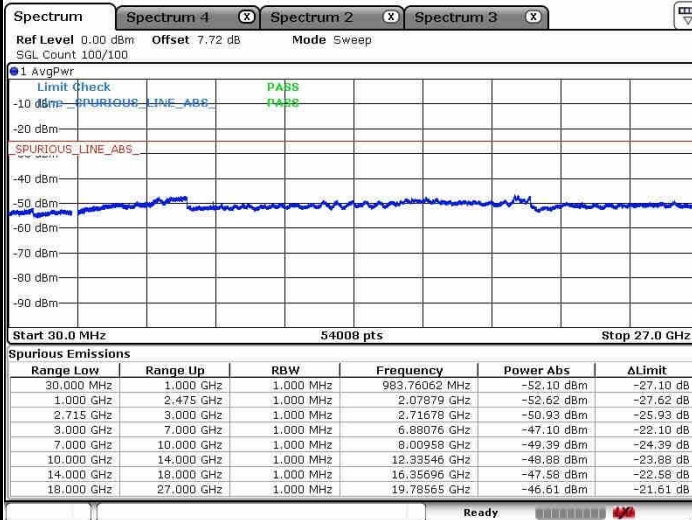
Date: 11 DEC 2018 17:07:51

N/A



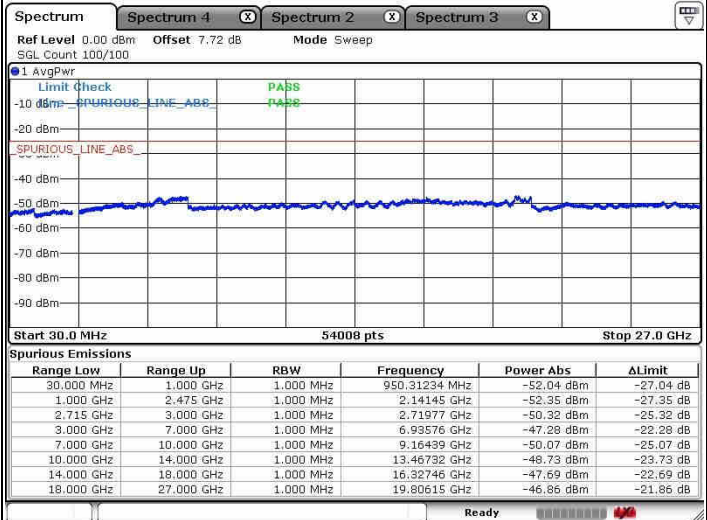
LTE Band 41 / 20MHz+20MHz

Highest Channel / QPSK



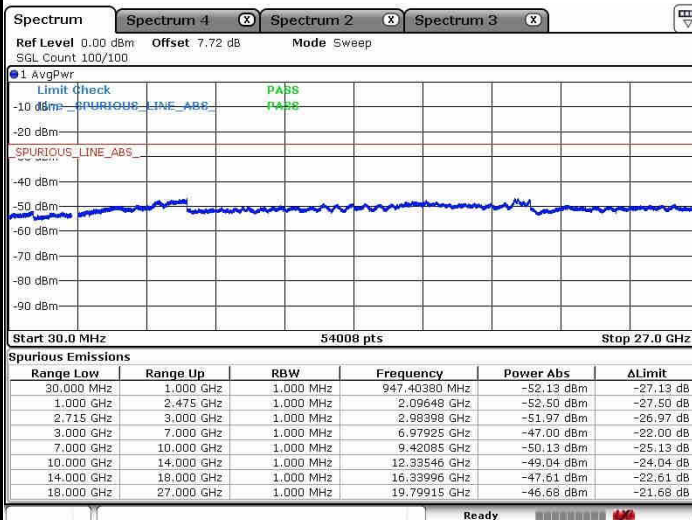
Date: 11 DEC 2018 17:12:04

Highest Channel / 16QAM



Date: 11 DEC 2018 17:12:54

Highest Channel / 64QAM



Date: 11 DEC 2018 17:13:45

N/A

**Frequency Stability**

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0058	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0062	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0064	
0	Normal Voltage	0.0095	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0066	
-30	Normal Voltage	0.0071	
20	Maximum Voltage	0.0103	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0077	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0072	
-10	Normal Voltage	0.0066	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0055	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.8V. ; 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 25 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0039	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0093	PASS
40	Normal Voltage	0.0084	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0092	
0	Normal Voltage	0.0079	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0077	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0081	

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 V.



Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0029	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 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	0.0010	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0037	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0028	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 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 7 / 20MHz / 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	5052	-45.93	-25	-20.93	-53.96	2.18	10.21	H
	7578.27	-57.24	-25	-32.24	-66.55	2.69	12.00	H
	10104	-59.90	-25	-34.90	-69.61	3.19	12.90	H
	5052	-49.17	-25	-24.17	-57.20	2.18	10.21	V
	7576	-58.28	-25	-33.28	-67.59	2.69	12.00	V
	10104	-60.26	-25	-35.26	-69.97	3.19	12.90	V

LTE Band 12 / 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	1406	-67.15	-13	-54.15	-68.36	2.319	5.68	H
	2110	-66.29	-13	-53.29	-66.92	3.02	5.80	H
	2812	-64.26	-13	-51.26	-66.72	3.27	7.88	H
	1406	-67.00	-13	-54.00	-68.21	2.32	5.68	V
	2110	-66.50	-13	-53.50	-67.13	3.02	5.80	V
	2812	-64.62	-13	-51.62	-67.08	3.27	7.88	V

LTE Band 13 / 5MHz / 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	1560	-67.72	-40	-27.72	-71.58	2.23	6.09	H
	2340	-65.57	-13	-52.57	-66.10	2.83	5.51	H
	3120	-64.12	-13	-51.12	-66.06	3.21	7.30	H
	1560	-67.42	-40	-27.42	-71.28	2.23	6.09	V
	2340	-65.81	-13	-52.81	-66.34	2.83	5.51	V
	3120	-64.30	-13	-51.30	-66.24	3.21	7.30	V



LTE Band 25 / 20MHz / 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	3747	-62.42	-13	-49.42	-67.29	3.55	8.42	H
	5622	-59.54	-13	-46.54	-65.88	4.34	10.68	H
	7494	-54.73	-13	-41.73	-61.53	5.14	11.94	H
	3747	-60.68	-13	-47.68	-65.55	3.55	8.42	V
	5622	-59.12	-13	-46.12	-65.46	4.34	10.68	V
	7494	-54.97	-13	-41.97	-61.77	5.14	11.94	V

LTE Band 26 / 15MHz / 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	1660	-68.80	-13	-55.80	-70.01	2.32	5.68	H
	2490	-64.98	-13	-51.98	-65.61	3.02	5.80	H
	3318	-63.96	-13	-50.96	-66.42	3.27	7.88	H
	1660	-69.04	-13	-56.04	-70.25	2.32	5.68	V
	2490	-65.19	-13	-52.19	-65.82	3.02	5.80	V
	3318	-64.12	-13	-51.12	-66.58	3.27	7.88	V



LTE Band 41 / 10MHz / 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	5176	-45.54	-25	-20.54	-51.55	4.20	10.21	H
	7764	-48.60	-25	-23.60	-55.46	5.12	11.98	H
	10350	-57.94	-25	-32.94	-64.98	5.86	12.90	H
	5176	-50.05	-25	-25.05	-56.06	4.20	10.21	V
	7764	-51.57	-25	-26.57	-58.43	5.12	11.98	V
	10350	-59.18	-25	-34.18	-66.22	5.86	12.90	V

LTE Band 66 / 10MHz / 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	3480	-59.37	-13	-46.37	-64.09	3.41	8.13	H
	5223	-60.59	-13	-47.59	-66.60	4.195	10.20	H
	6963	-56.73	-13	-43.73	-63.18	4.91	11.36	H
	3480	-61.62	-13	-48.62	-66.34	3.413	8.13	V
	5223	-60.39	-13	-47.39	-66.40	4.195	10.20	V
	6963	-56.70	-13	-43.70	-63.15	4.911	11.36	V

LTE Band 71 / 20MHz / 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	1348	-67.09	-13	-54.09	-68.80	2.23	6.09	H
	2022.27	-66.64	-13	-53.64	-67.17	2.83	5.51	H
	2696.36	-64.87	-13	-51.87	-66.81	3.21	7.30	H
	1348.18	-67.24	-13	-54.24	-68.95	2.23	6.09	V
	2022.27	-66.67	-13	-53.67	-67.20	2.83	5.51	V
	2696	-64.87	-13	-51.87	-66.81	3.21	7.30	V

**For CA:**

LTE Band 41 CA / 20M+20M / 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	5150	-47.80	-25	-22.80	-53.81	4.20	10.21	H
	7720	-47.99	-25	-22.99	-54.85	5.12	11.98	H
	10296	-57.29	-25	-32.29	-64.33	5.86	12.90	H
	5150	-51.53	-25	-26.53	-57.54	4.20	10.21	V
	7720	-52.30	-25	-27.30	-59.16	5.12	11.98	V
	10296	-59.82	-25	-34.82	-66.86	5.86	12.90	V