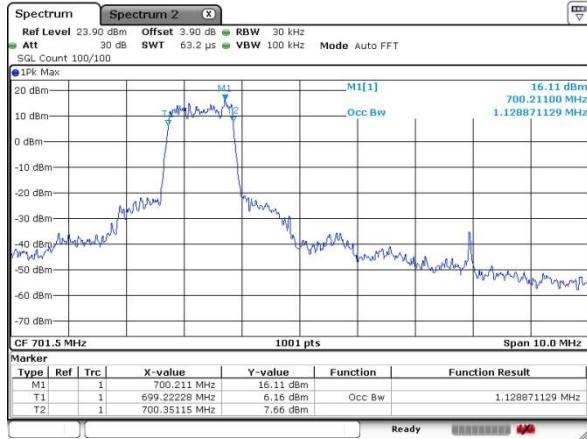


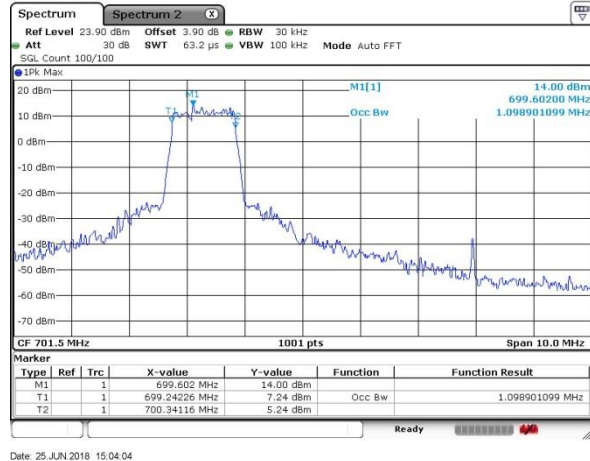


LTE Band 12

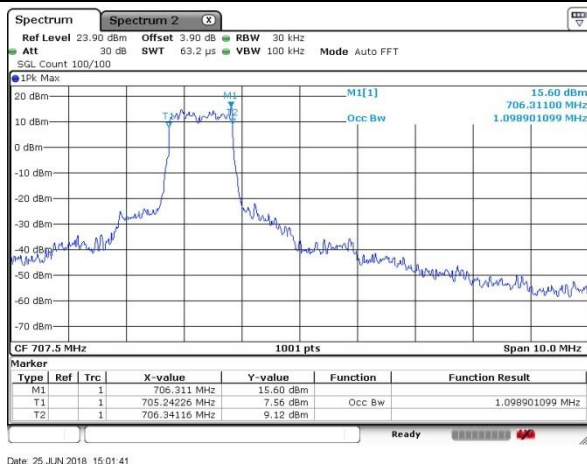
Lowest Channel / 5MHz / QPSK



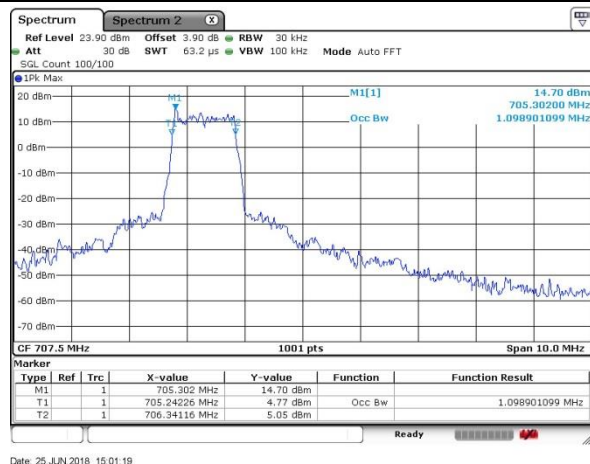
Lowest Channel / 5MHz / 16QAM



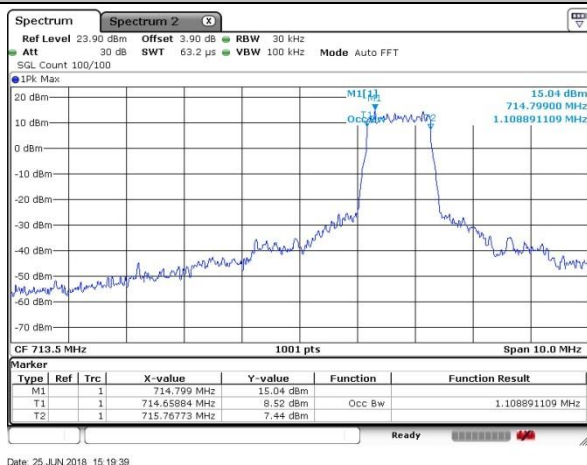
Middle Channel / 5MHz / QPSK



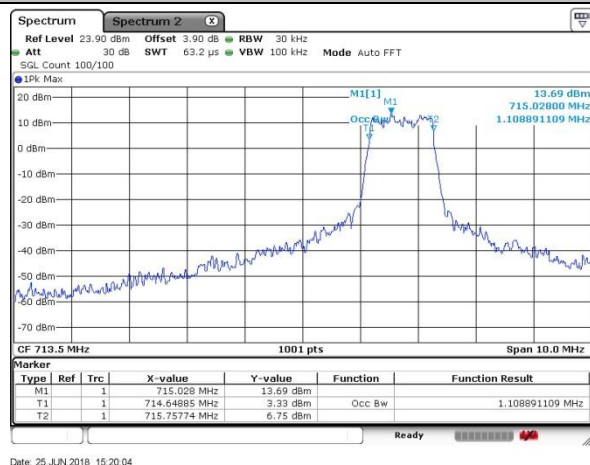
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM

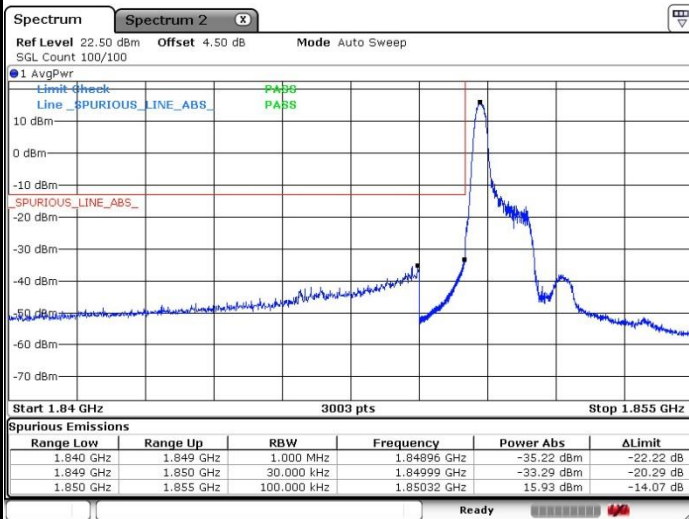




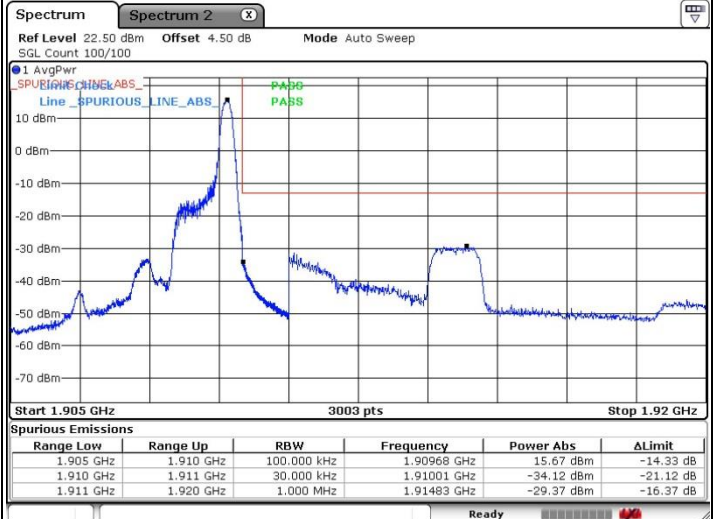
Conducted Band Edge

LTE Band 2 / 5MHz / QPSK

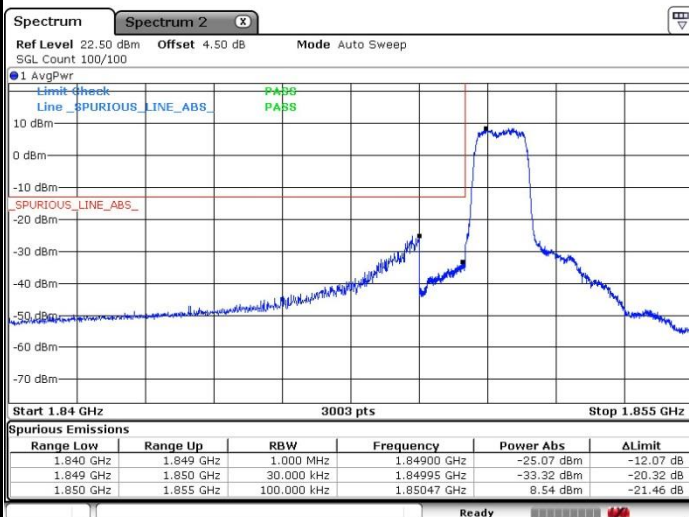
Lowest Band Edge / 1 RB



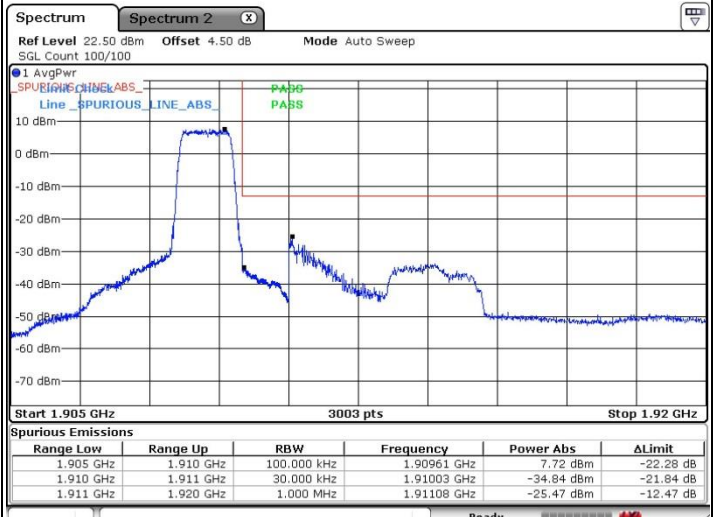
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



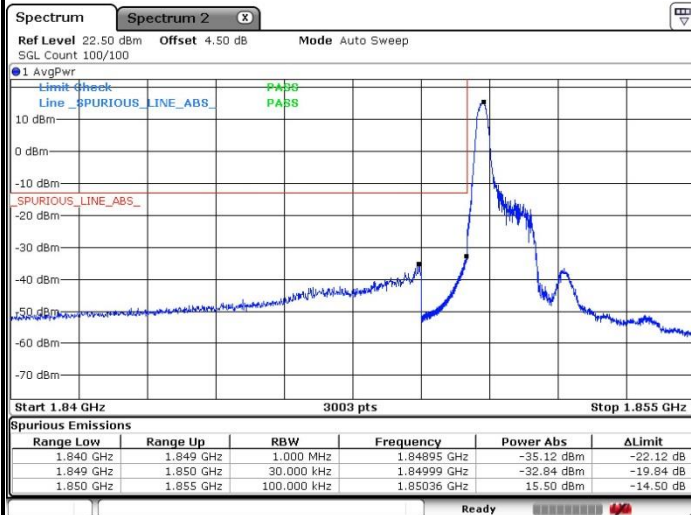
Highest Band Edge / Full RB





LTE Band 2 / 5MHz / 16QAM

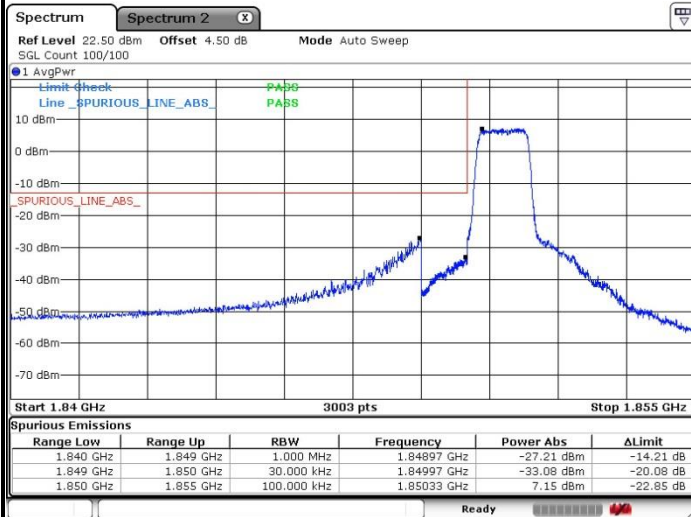
Lowest Band Edge / 1RB



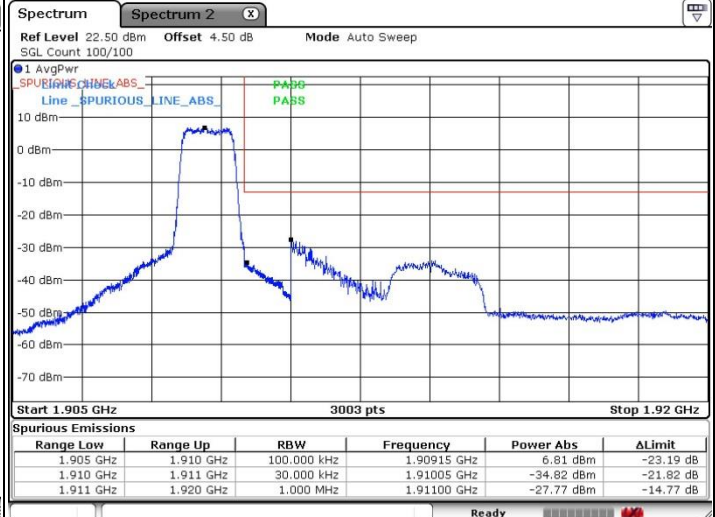
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



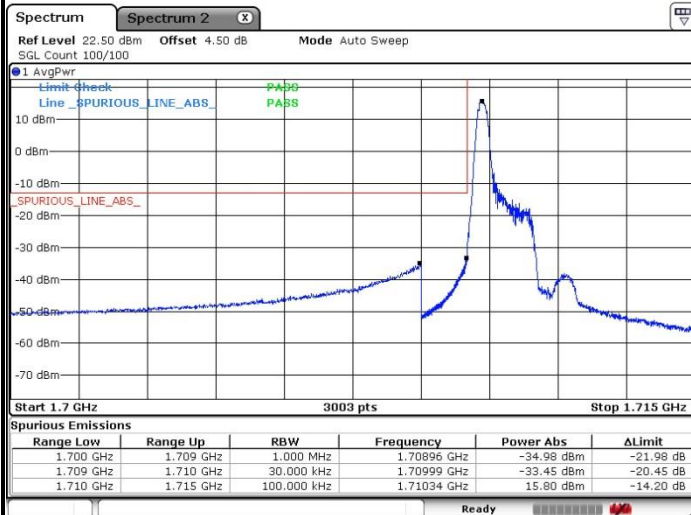
Highest Band Edge / Full RB



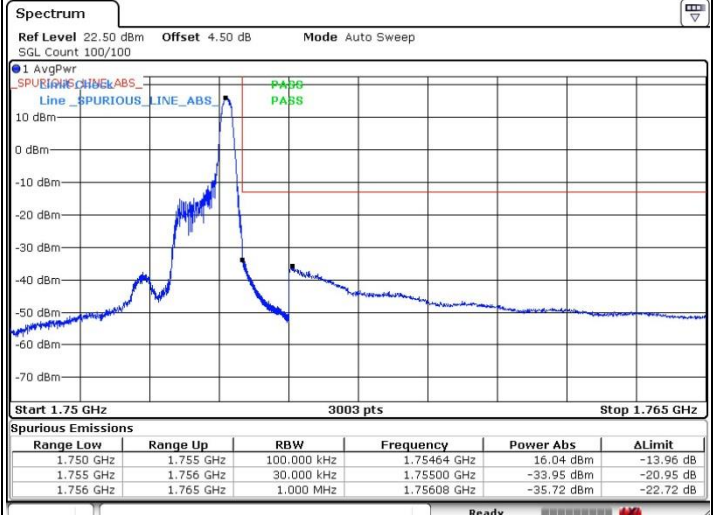


LTE Band 4 / 5MHz / QPSK

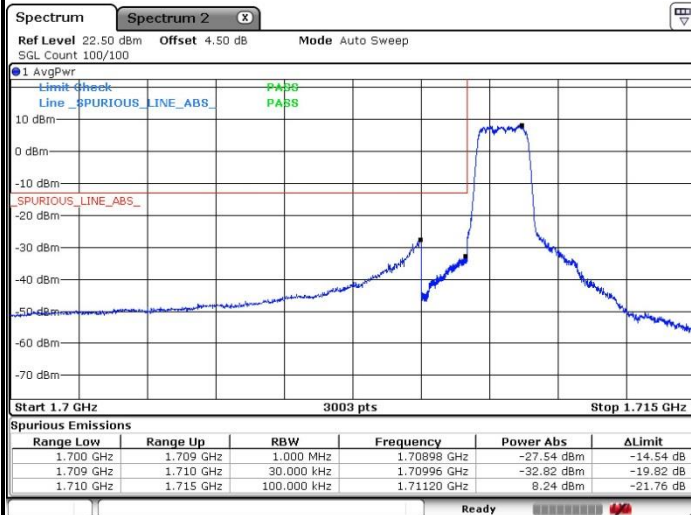
Lowest Band Edge / 1 RB



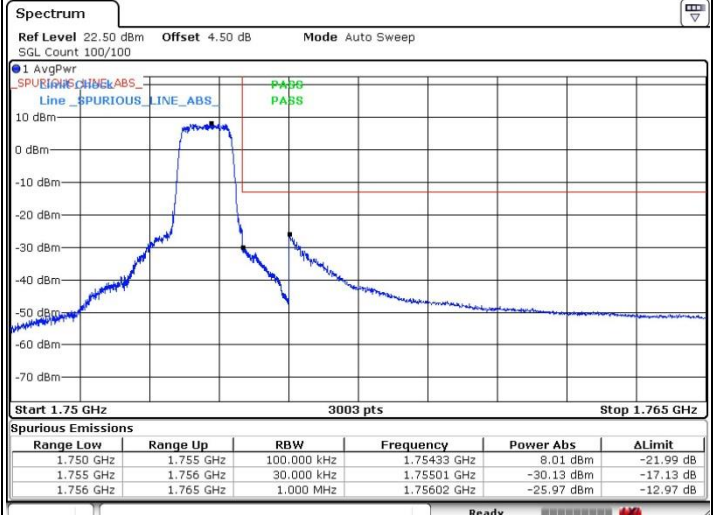
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



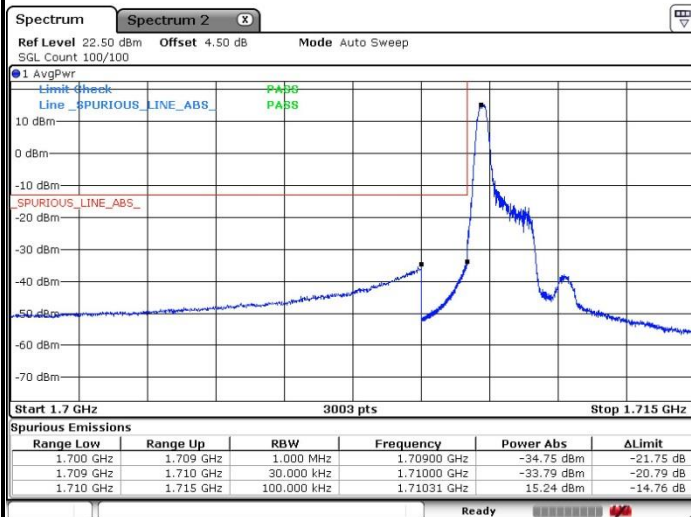
Highest Band Edge / Full RB





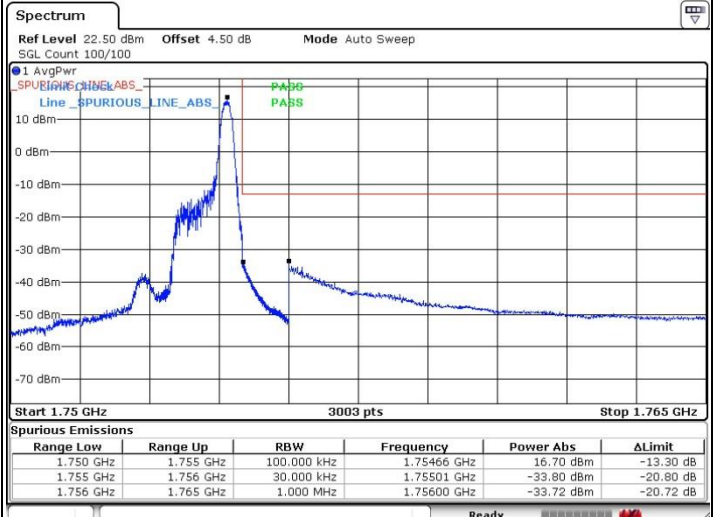
LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1RB



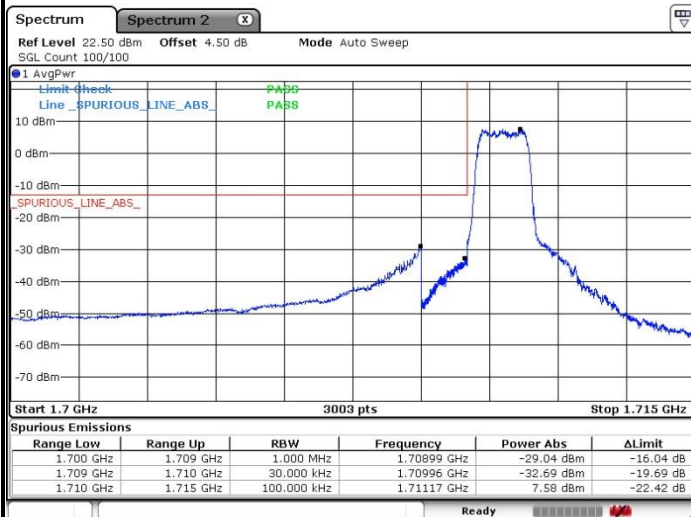
Date: 25 JUN 2018 14:36:02

Highest Band Edge / 1 RB



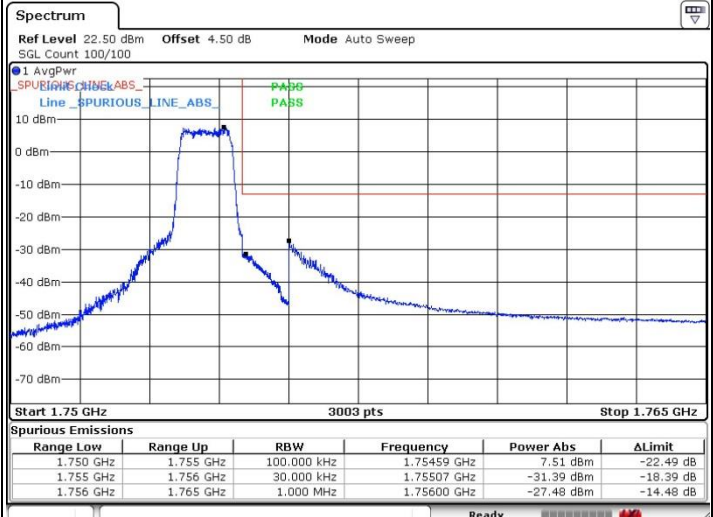
Date: 25 JUN 2018 14:13:38

Lowest Band Edge / Full RB



Date: 25 JUN 2018 14:38:37

Highest Band Edge / Full RB

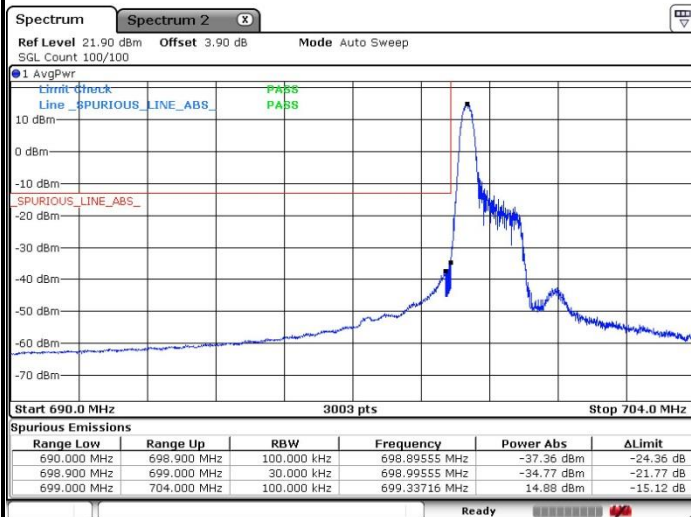


Date: 25 JUN 2018 14:12:46

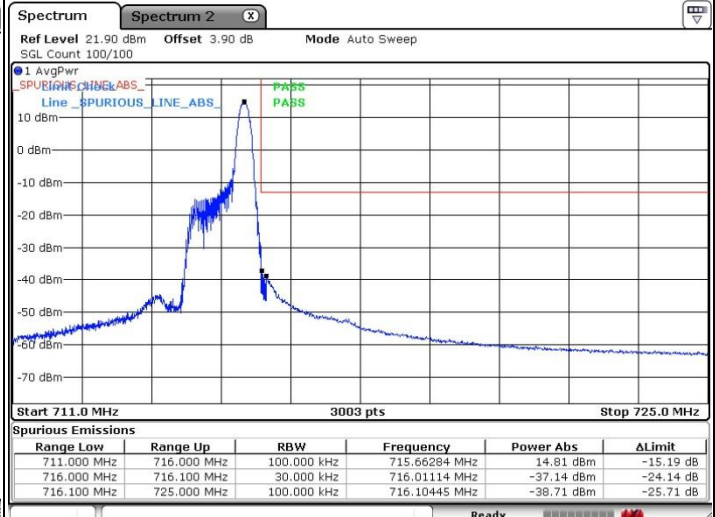


LTE Band 12 / 5MHz / QPSK

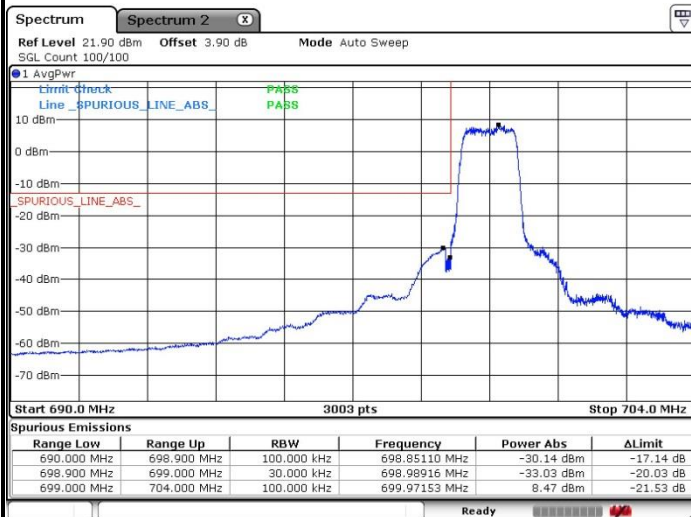
Lowest Band Edge / 1 RB



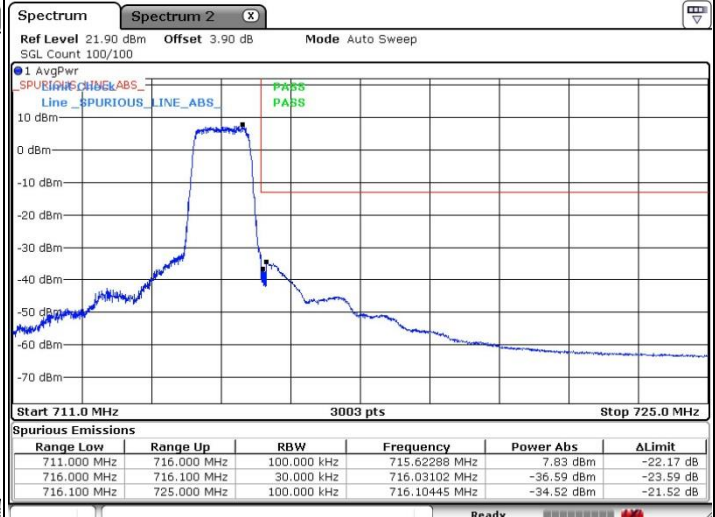
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





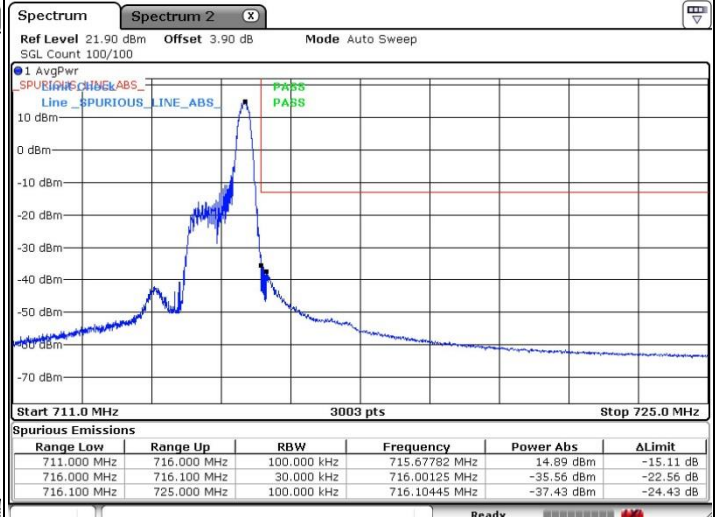
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



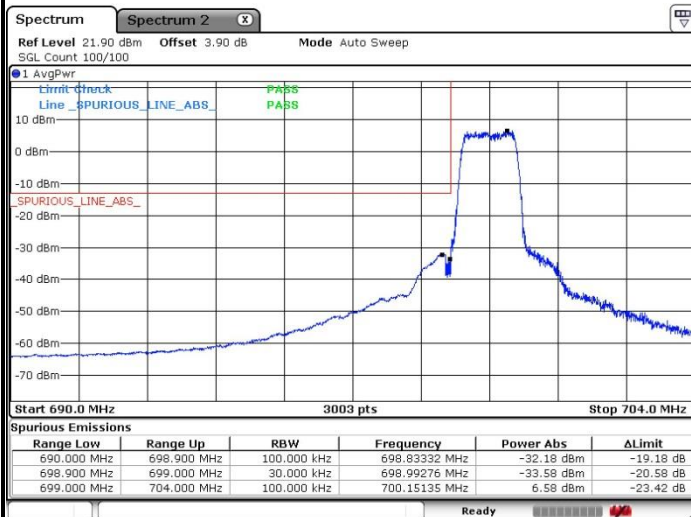
Date: 25 JUN 2018 15:28:23

Highest Band Edge / 1 RB



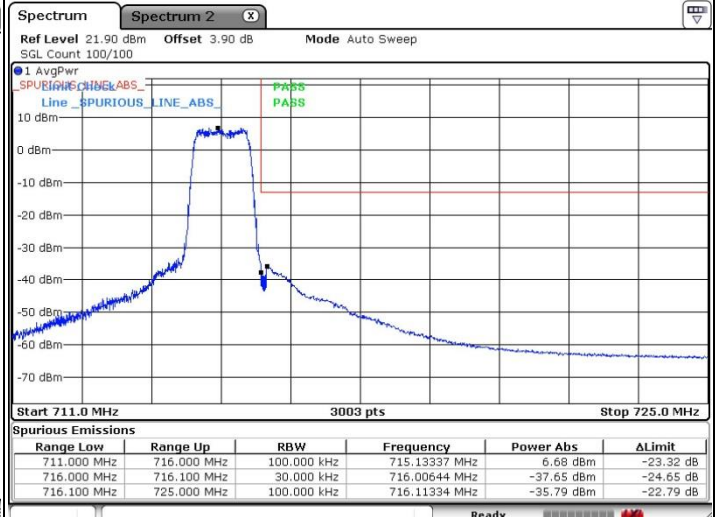
Date: 25 JUN 2018 15:24:19

Lowest Band Edge / Full RB



Date: 25 JUN 2018 15:26:06

Highest Band Edge / Full RB



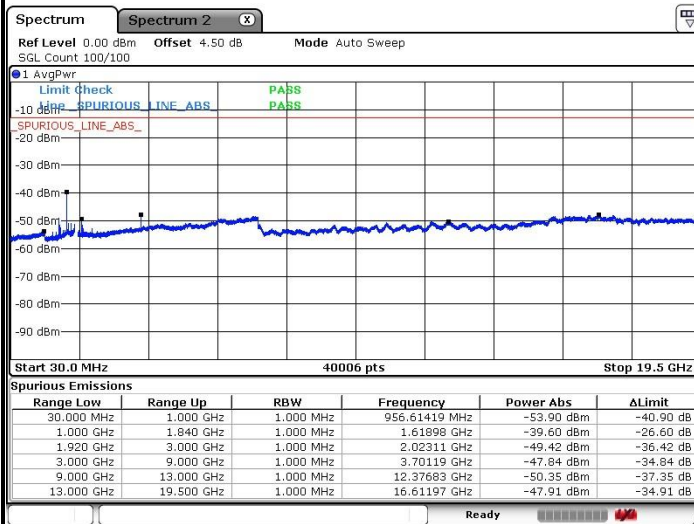
Date: 25 JUN 2018 15:21:55



Conducted Spurious Emission

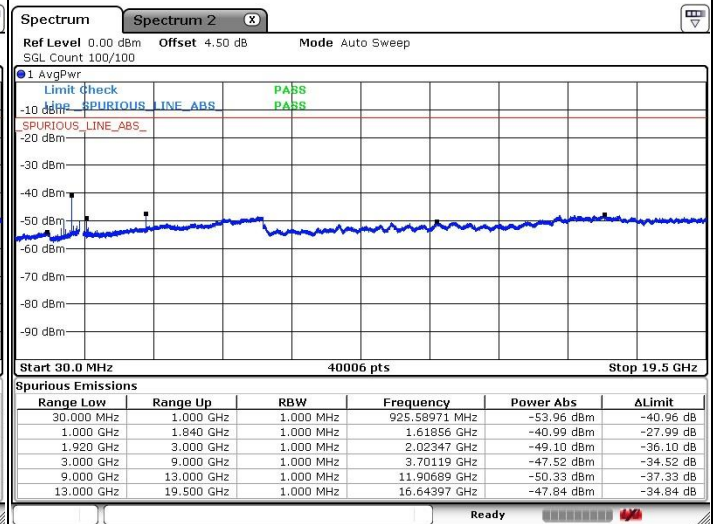
LTE Band 2 / 5MHz

Lowest Channel / QPSK



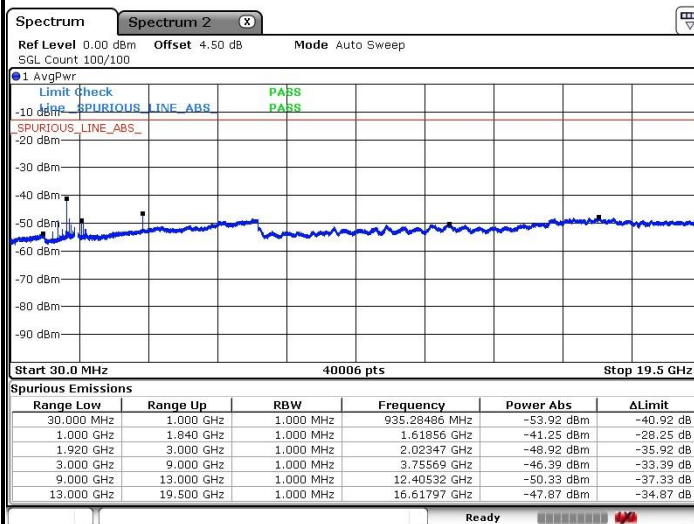
Date: 25 JUN 2018 11:42:30

Lowest Channel / 16QAM



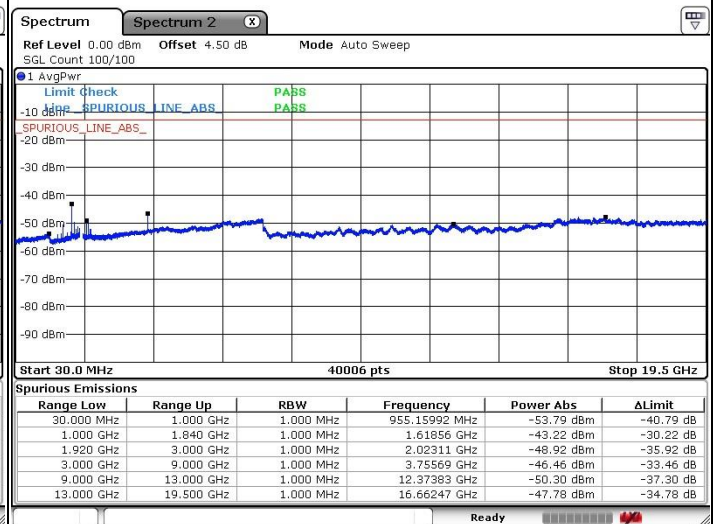
Date: 25 JUN 2018 11:41:36

Middle Channel / QPSK



Date: 25 JUN 2018 11:43:28

Middle Channel / 16QAM

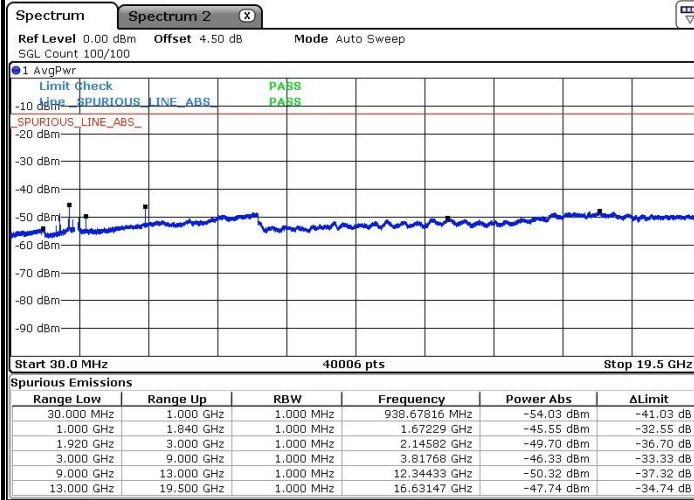


Date: 25 JUN 2018 11:44:12



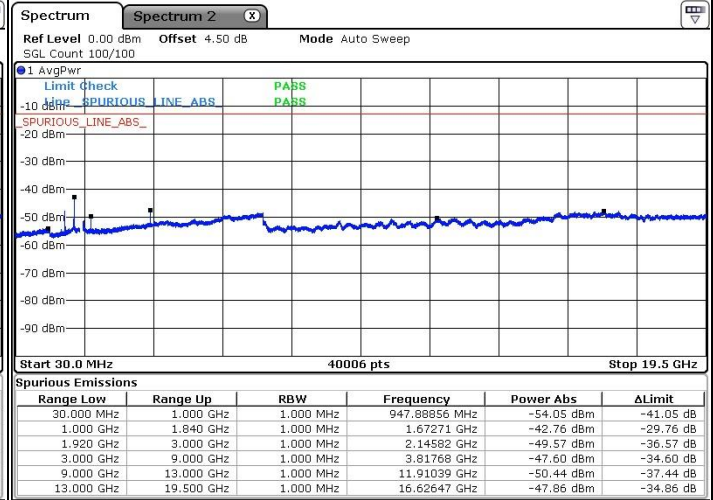
LTE Band 2 / 5MHz

Highest Channel / QPSK



Date: 25 JUN 2018 11:47:03

Highest Channel / 16QAM

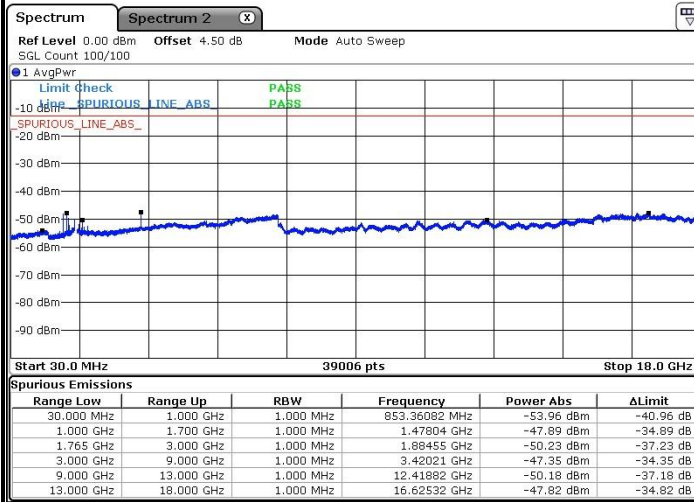


Date: 25 JUN 2018 11:47:42



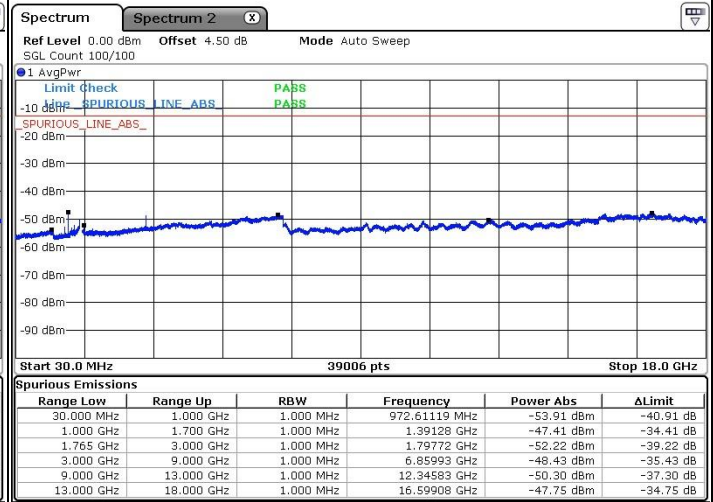
LTE Band 4 / 5MHz

Lowest Channel / QPSK



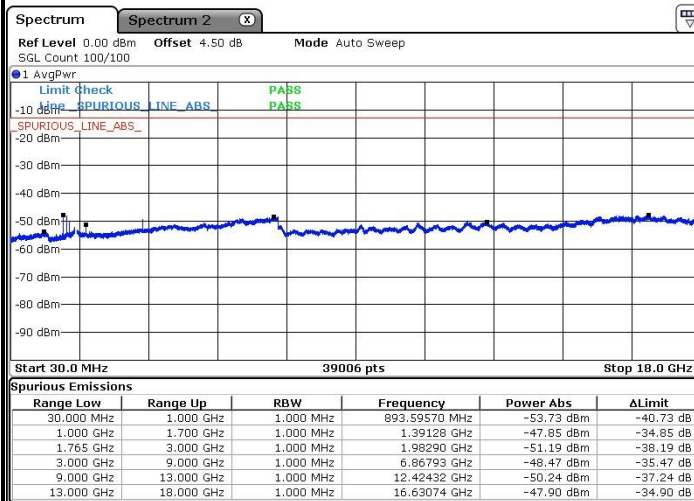
Date: 25 JUN 2018 14:29:07

Lowest Channel / 16QAM



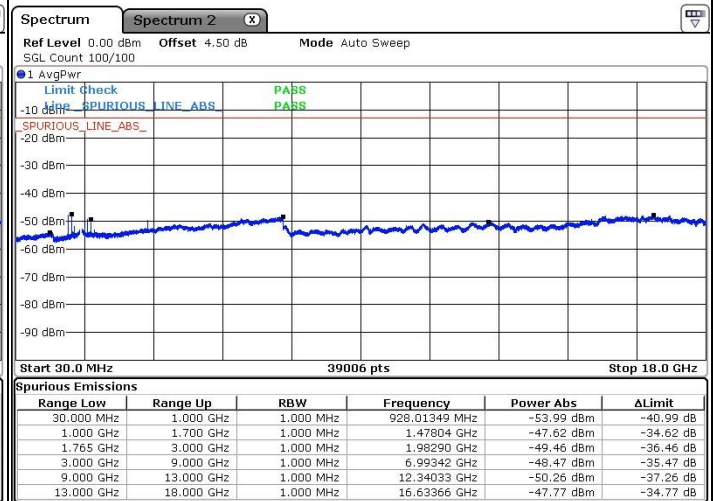
Date: 25 JUN 2018 14:30:05

Middle Channel / QPSK



Date: 25 JUN 2018 14:31:39

Middle Channel / 16QAM

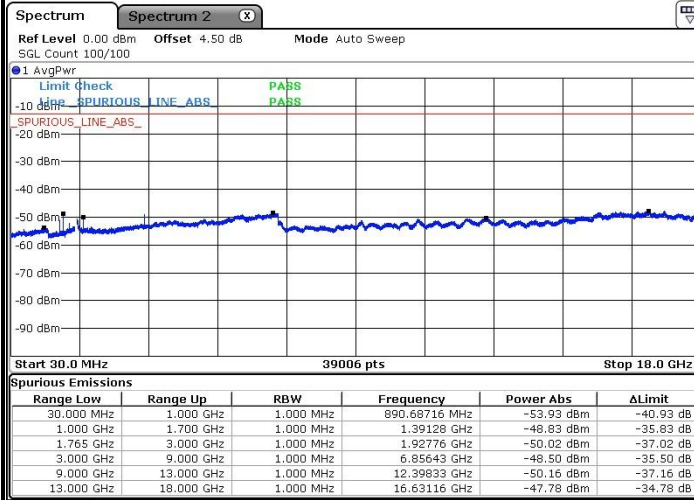


Date: 25 JUN 2018 14:30:57



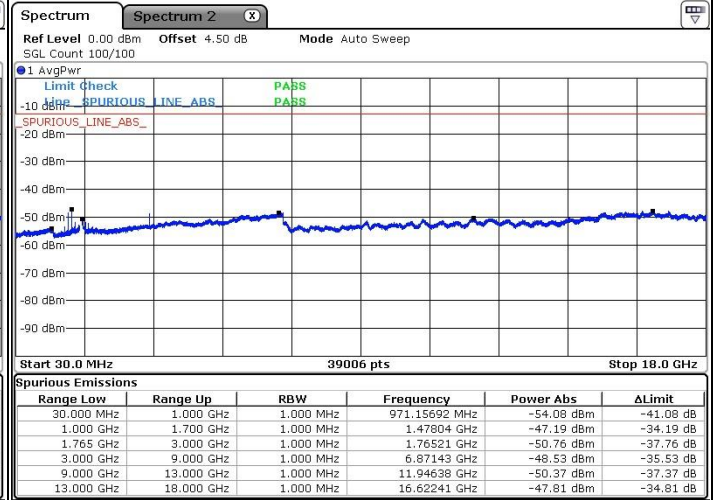
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 25 JUN 2018 14:32:36

Highest Channel / 16QAM

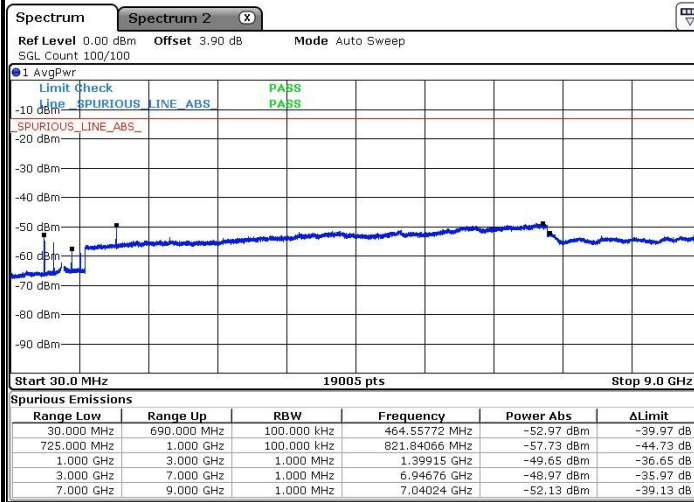


Date: 25 JUN 2018 14:33:18



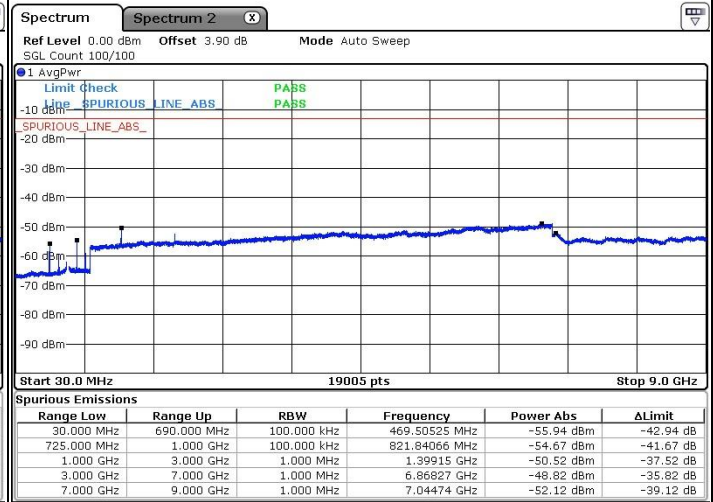
LTE Band 12 / 5MHz

Lowest Channel / QPSK



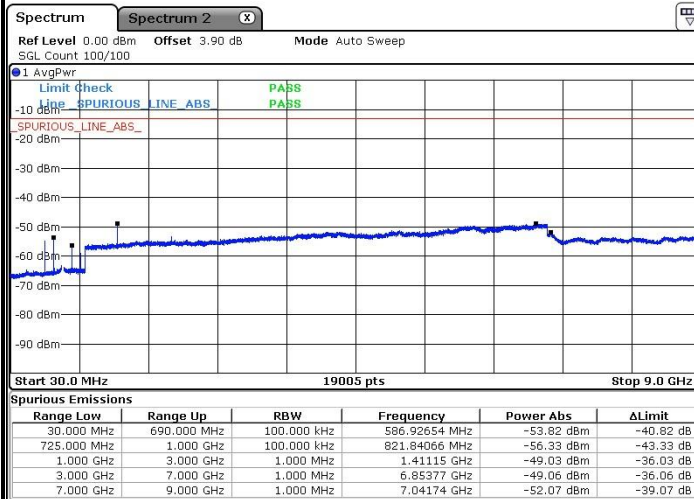
Date: 25 JUN 2018 15:30:10

Lowest Channel / 16QAM



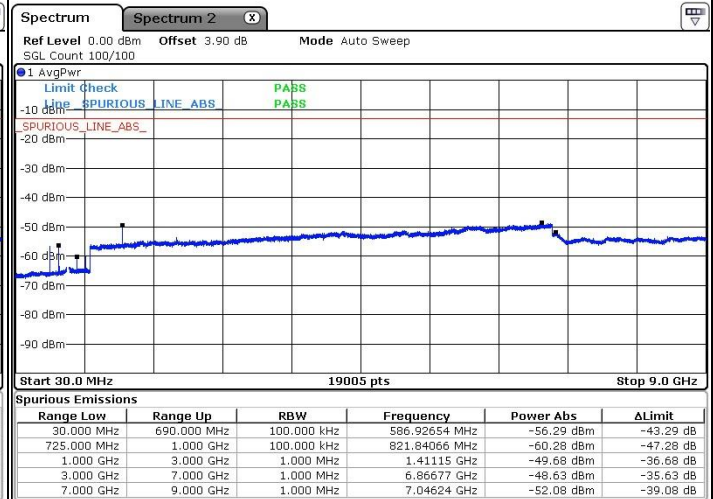
Date: 25 JUN 2018 15:29:32

Middle Channel / QPSK



Date: 25 JUN 2018 15:32:09

Middle Channel / 16QAM

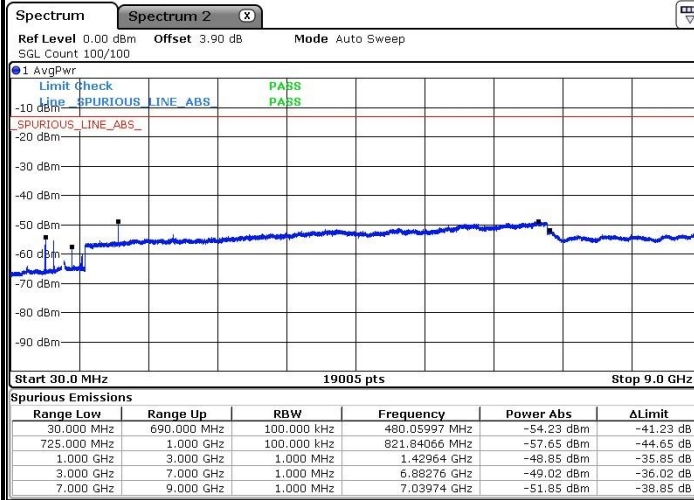


Date: 25 JUN 2018 15:32:50



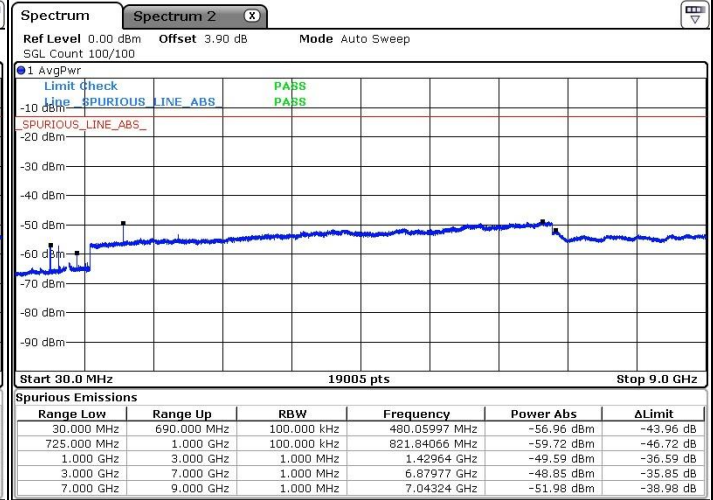
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 25 JUN 2018 15:34:30

Highest Channel / 16QAM



Date: 25 JUN 2018 15:33:47

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0045	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0020	
0	Normal Voltage	0.0054	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0033	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0041	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 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 5MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0027	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0143	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0109	
0	Normal Voltage	0.0151	
-10	Normal Voltage	0.0139	
-20	Normal Voltage	0.0149	
-30	Normal Voltage	0.0126	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0122	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.2 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 5MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0045	
-10	Normal Voltage	0.0072	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 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 / 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)
Lowest	3702	-57.75	-13	-44.75	-61.25	3.60	7.10	H
	5553	-48.46	-13	-35.46	-54.44	4.42	10.40	H
	7404	-47.29	-13	-34.29	-54.10	5.13	11.94	H
	3702	-55.66	-13	-42.66	-59.16	3.60	7.10	V
	5553	-49.44	-13	-36.44	-55.42	4.42	10.40	V
	7404	-40.25	-13	-27.25	-47.06	5.13	11.94	V
Middle	3750	-58.57	-13	-45.57	-62.07	3.60	7.10	H
	5628	-46.77	-13	-33.77	-52.75	4.42	10.40	H
	7503	-40.85	-13	-27.85	-47.66	5.13	11.94	H
	3750	-58.87	-13	-45.87	-62.37	3.60	7.10	V
	5628	-46.89	-13	-33.89	-52.87	4.42	10.40	V
	7503	-43.69	-13	-30.69	-50.50	5.13	11.94	V
Highest	3801	-58.24	-13	-45.24	-61.74	3.60	7.10	H
	5703	-49.43	-13	-36.43	-55.41	4.42	10.40	H
	7602	-54.09	-13	-41.09	-60.90	5.13	11.94	H
	3801	-59.06	-13	-46.06	-62.56	3.60	7.10	V
	5703	-48.42	-13	-35.42	-54.40	4.42	10.40	V
	7602	-47.44	-13	-34.44	-54.25	5.13	11.94	V

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



LTE Band 4 / 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)
Lowest	3423	-49.68	-13	-36.68	-53.90	3.37	7.59	H
	5133	-48.92	-13	-35.92	-54.11	4.20	9.39	H
	6846	-48.75	-13	-35.75	-55.50	4.92	11.67	H
	3423	-50.17	-13	-37.17	-54.39	3.37	7.59	V
	5133	-44.26	-13	-31.26	-49.45	4.20	9.39	V
	6846	-45.29	-13	-32.29	-52.04	4.92	11.67	V
Middle	3447	-49.65	-13	-36.65	-53.87	3.37	7.59	H
	5172	-49.17	-13	-36.17	-54.36	4.20	9.39	H
	6894	-47.59	-13	-34.59	-54.34	4.92	11.67	H
	3447	-50.92	-13	-37.92	-55.14	3.37	7.59	V
	5172	-42.80	-13	-29.80	-47.99	4.20	9.39	V
	6894	-42.36	-13	-29.36	-49.11	4.92	11.67	V
Highest	3474	-47.91	-13	-34.91	-52.13	3.37	7.59	H
	5211	-49.34	-13	-36.34	-54.53	4.20	9.39	H
	6948	-51.00	-13	-38.00	-57.75	4.92	11.67	H
	3474	-48.61	-13	-35.61	-52.83	3.37	7.59	V
	5211	-43.22	-13	-30.22	-48.41	4.20	9.39	V
	6948	-45.16	-13	-32.16	-51.91	4.92	11.67	V

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



LTE Band 12 / 5MHz / 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)
Lowest	1398	-62.83	-13	-49.83	-63.18	2.08	4.58	H
	2098	-59.97	-13	-46.97	-61.36	2.57	6.10	H
	2797	-59.00	-13	-46.00	-60.90	2.98	7.03	H
	1400	-62.65	-13	-49.65	-63.00	2.08	4.58	V
	2098	-60.42	-13	-47.42	-61.81	2.57	6.10	V
	2796	-58.91	-13	-45.91	-60.81	2.98	7.03	V
Middle	1410	-61.48	-13	-48.48	-61.83	2.08	4.58	H
	2116	-58.92	-13	-45.92	-60.31	2.57	6.10	H
	2820	-59.65	-13	-46.65	-61.55	2.98	7.03	H
	1410	-62.71	-13	-49.71	-63.06	2.08	4.58	V
	2116	-60.04	-13	-47.04	-61.43	2.57	6.10	V
	2820	-59.46	-13	-46.46	-61.36	2.98	7.03	V
Highest	1423	-61.72	-13	-48.72	-62.07	2.08	4.58	H
	2134	-60.03	-13	-47.03	-61.42	2.57	6.10	H
	2845	-58.70	-13	-45.70	-60.60	2.98	7.03	H
	1424	-61.72	-13	-48.72	-62.07	2.08	4.58	V
	2134	-60.13	-13	-47.13	-61.52	2.57	6.10	V
	2845	-58.67	-13	-45.67	-60.57	2.98	7.03	V

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