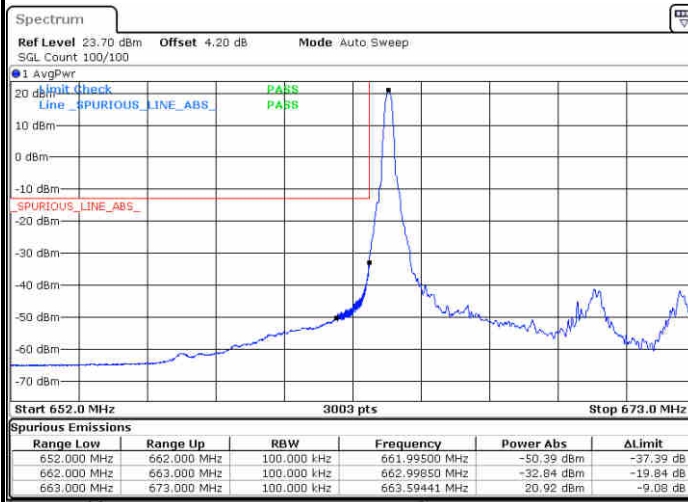


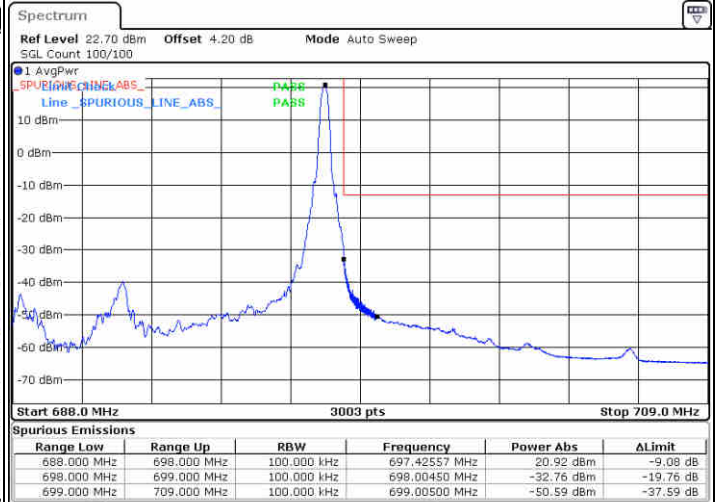


LTE Band 71 / 10MHz / QPSK

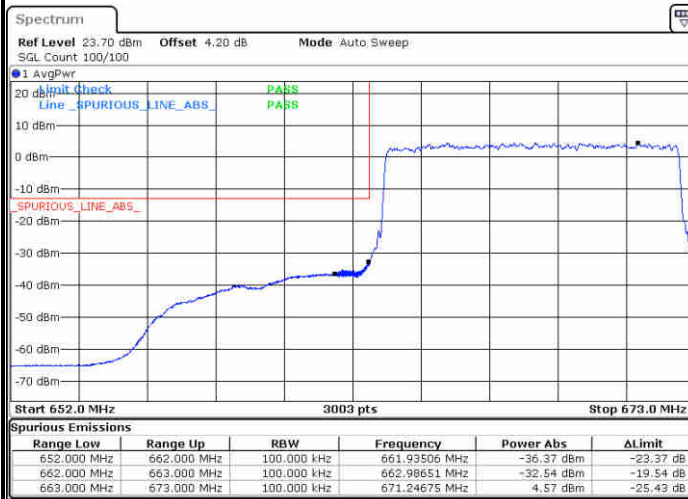
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



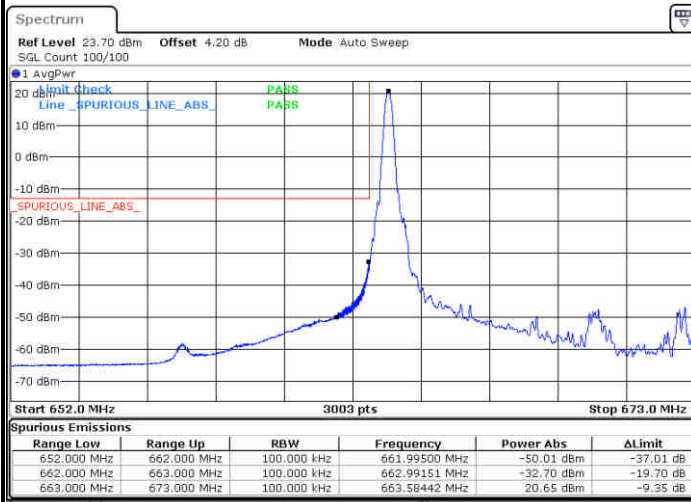
Highest Band Edge / Full RB



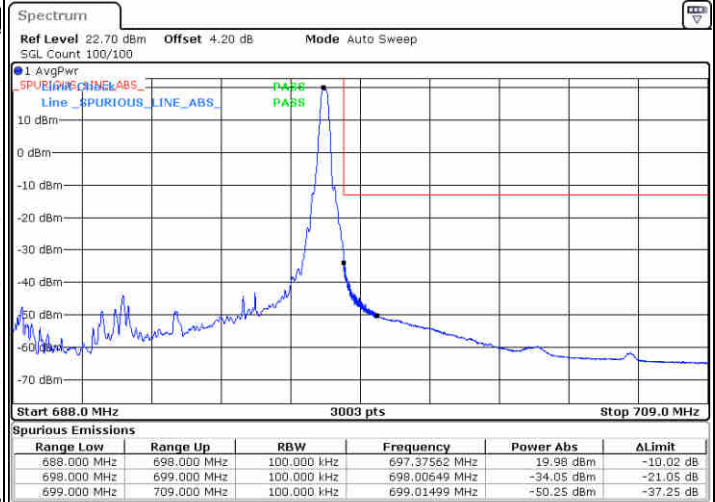


LTE Band 71 / 10MHz / 16QAM

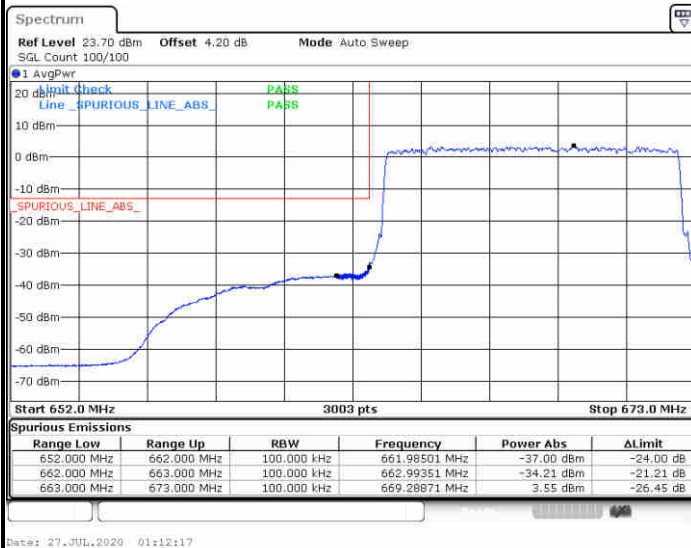
Lowest Band Edge / 1 RB



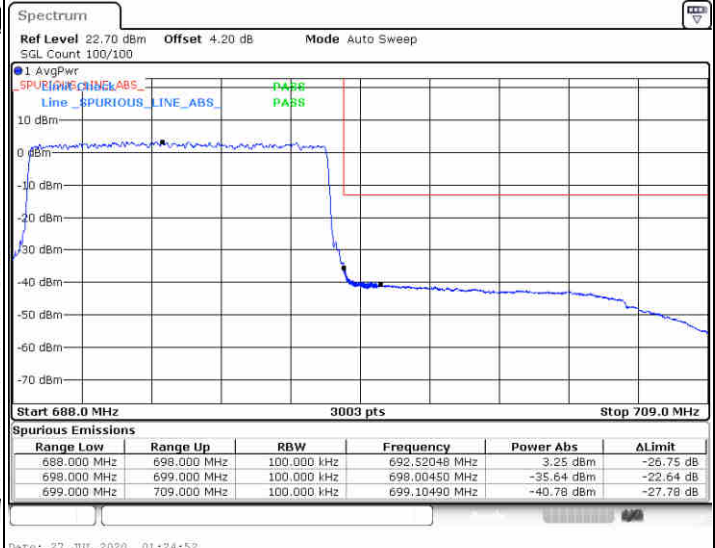
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



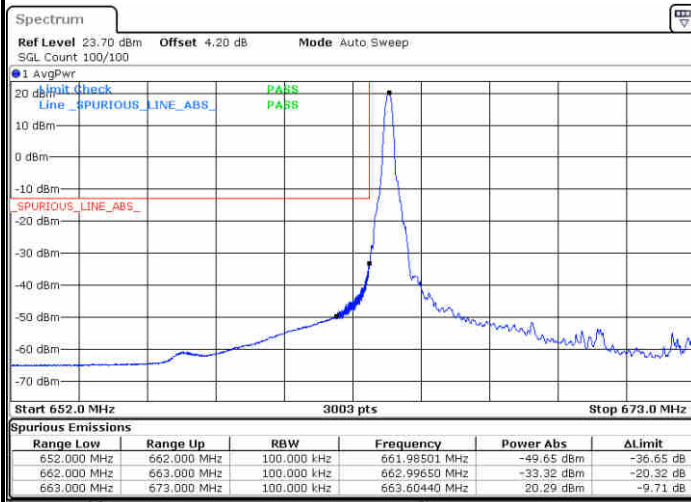
Highest Band Edge / Full RB



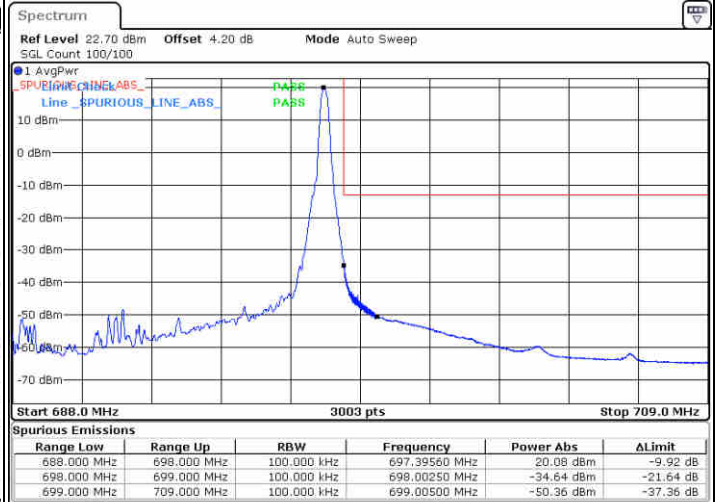


LTE Band 71 / 10MHz / 64QAM

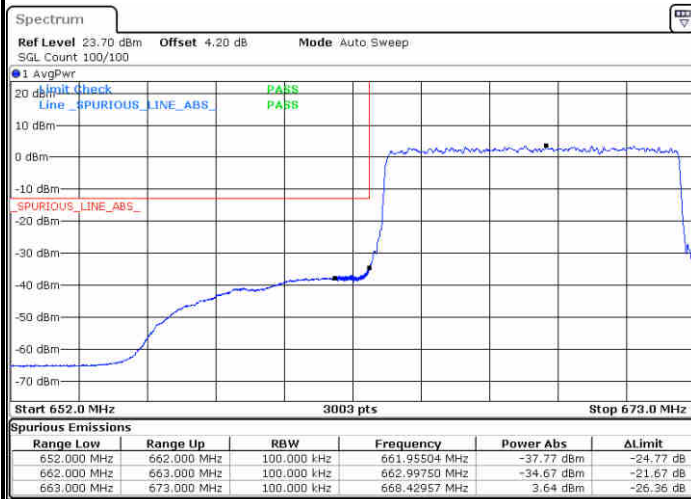
Lowest Band Edge / 1 RB



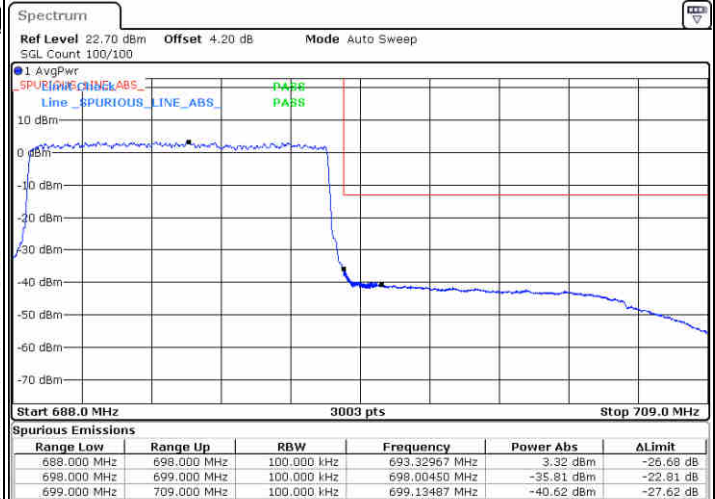
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



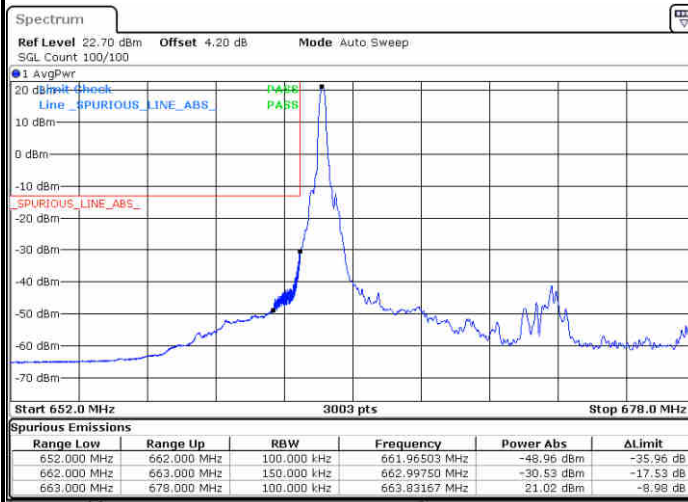
Highest Band Edge / Full RB



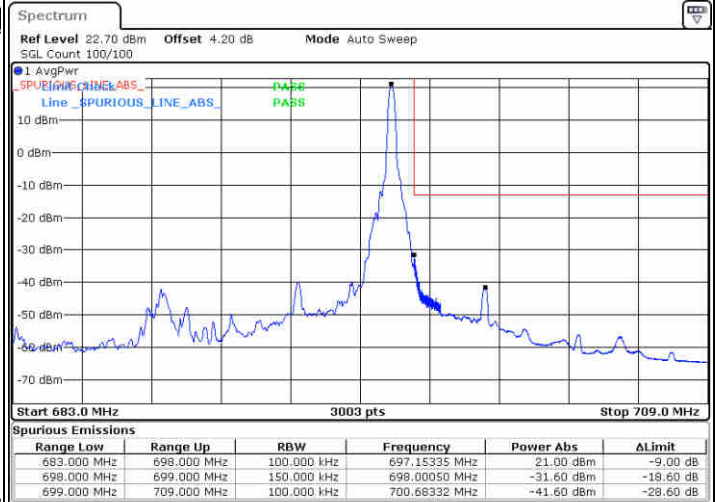


LTE Band 71 / 15MHz / QPSK

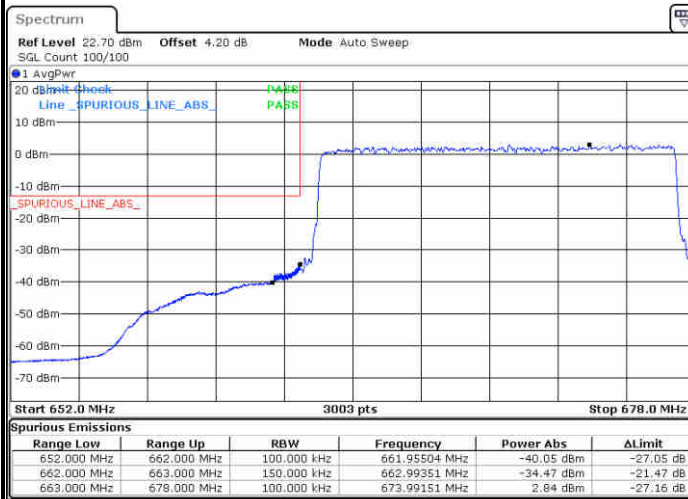
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



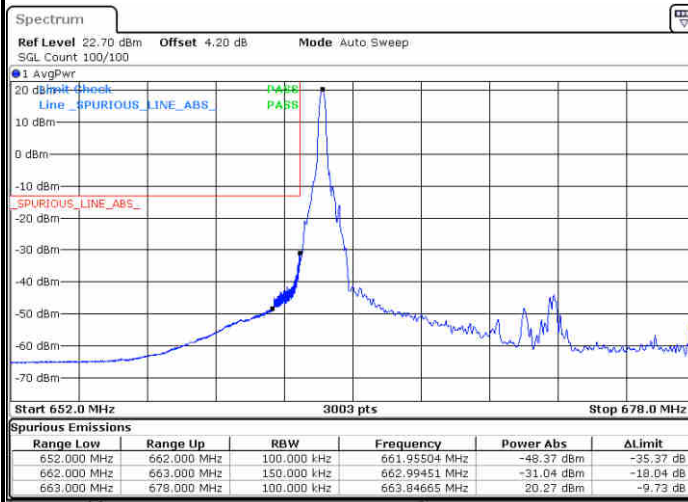
Highest Band Edge / Full RB



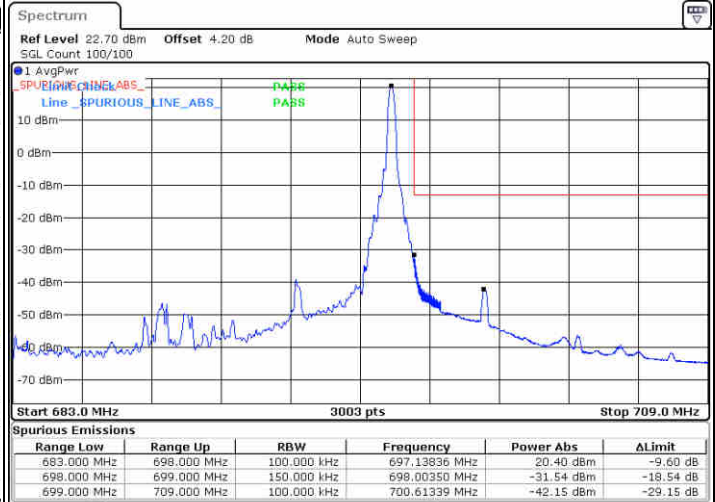


LTE Band 71 / 15MHz / 16QAM

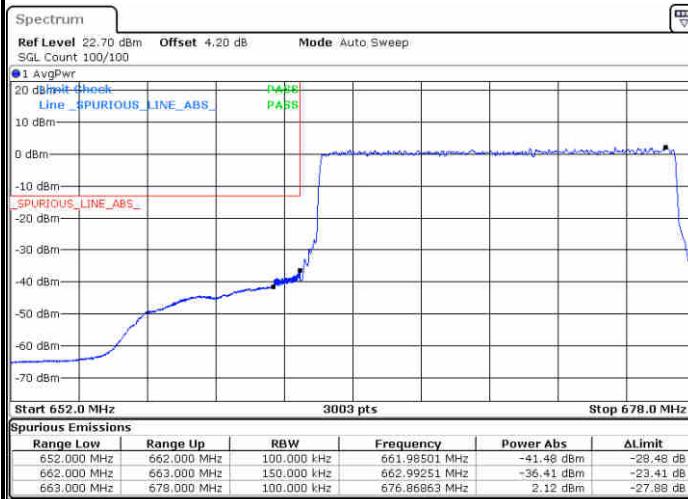
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



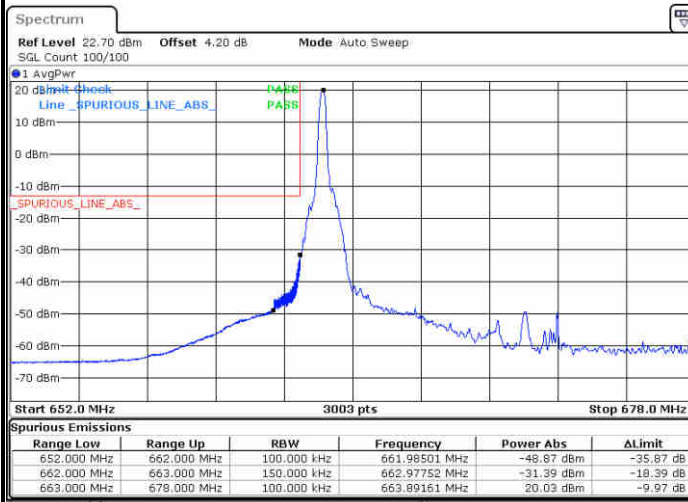
Highest Band Edge / Full RB



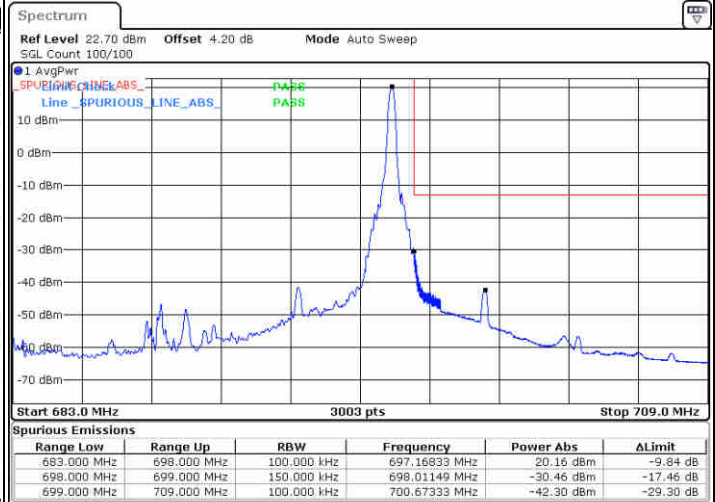


LTE Band 71 / 15MHz / 64QAM

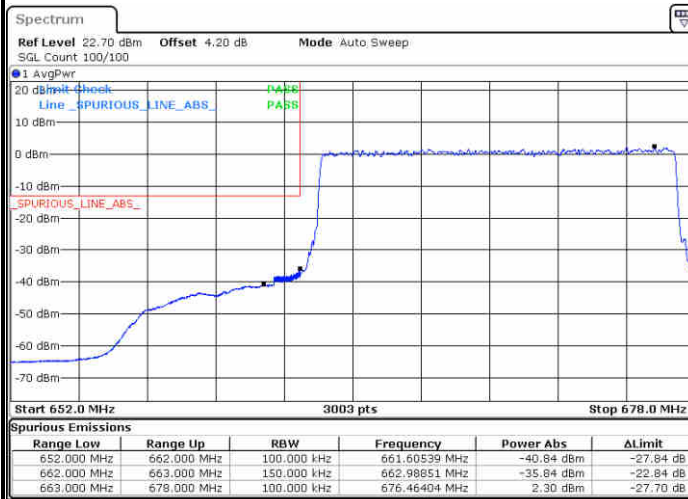
Lowest Band Edge / 1 RB



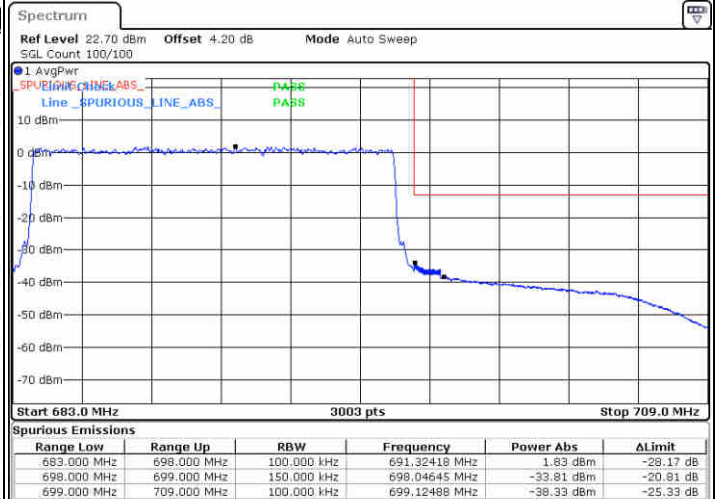
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



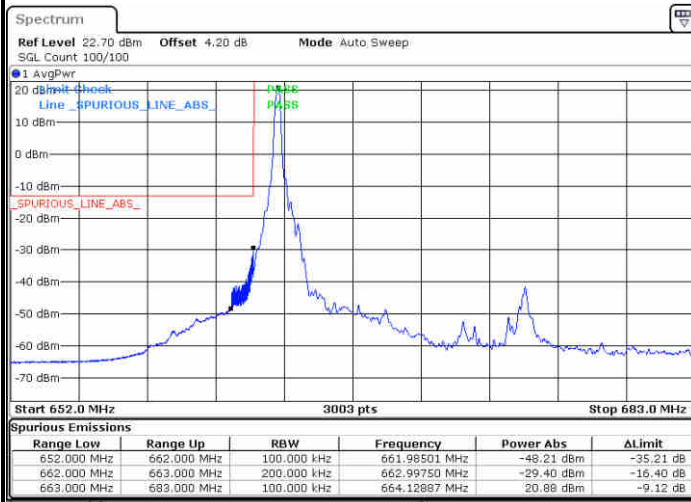
Highest Band Edge / Full RB



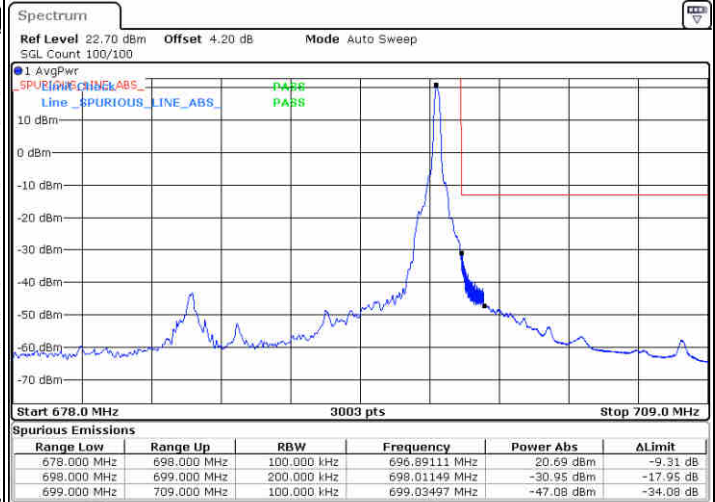


LTE Band 71 / 20MHz / QPSK

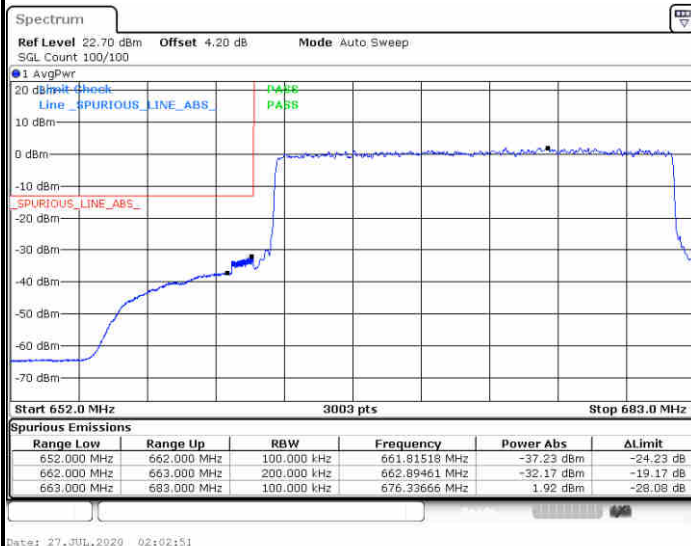
Lowest Band Edge / 1 RB



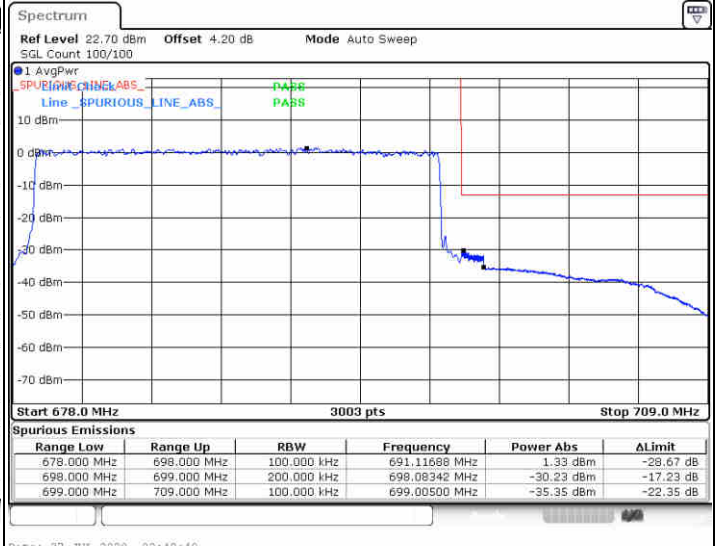
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



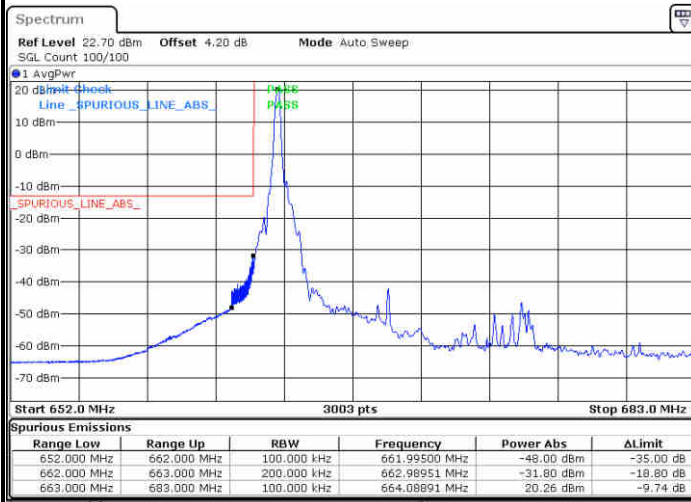
Highest Band Edge / Full RB



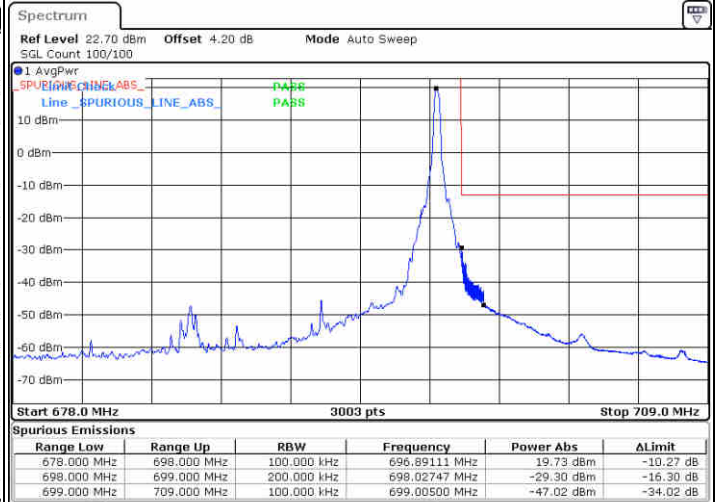


LTE Band 71 / 20MHz / 16QAM

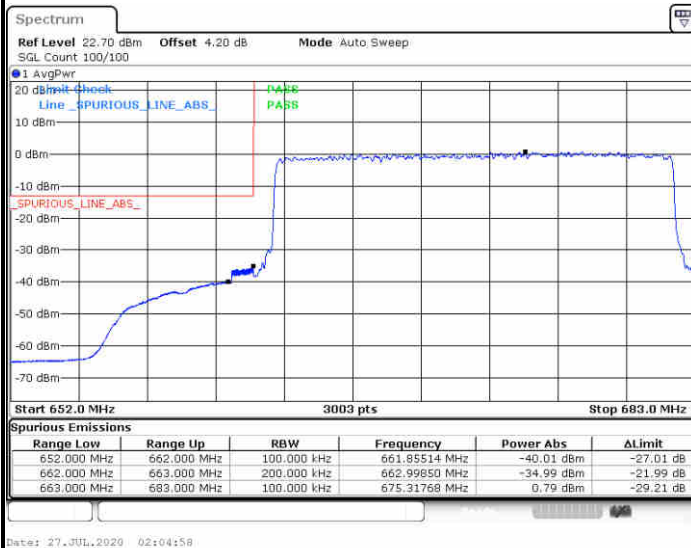
Lowest Band Edge / 1 RB



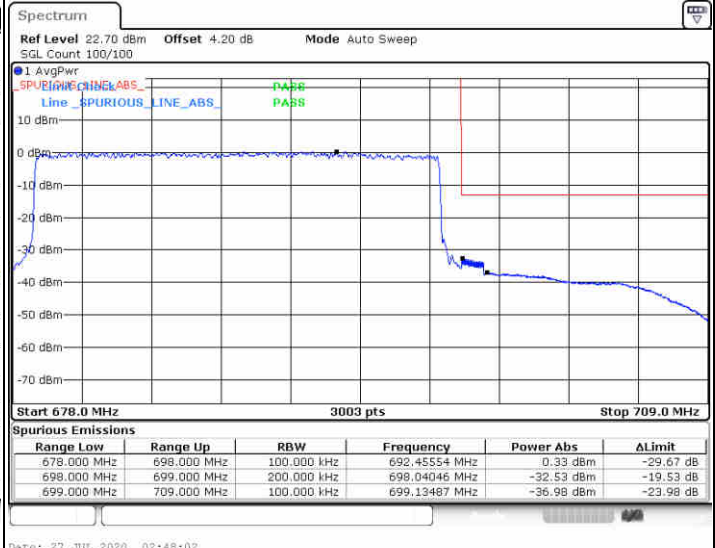
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



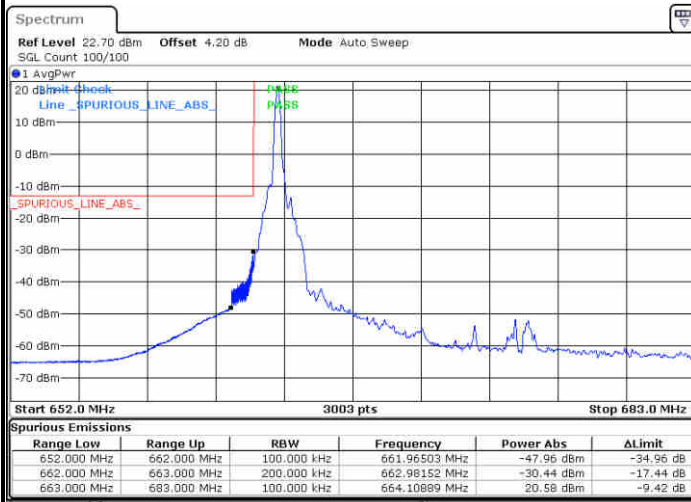
Highest Band Edge / Full RB



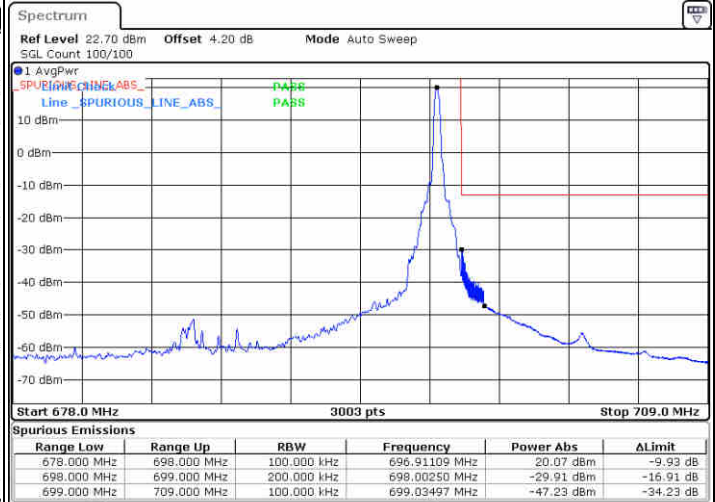


LTE Band 71 / 20MHz / 64QAM

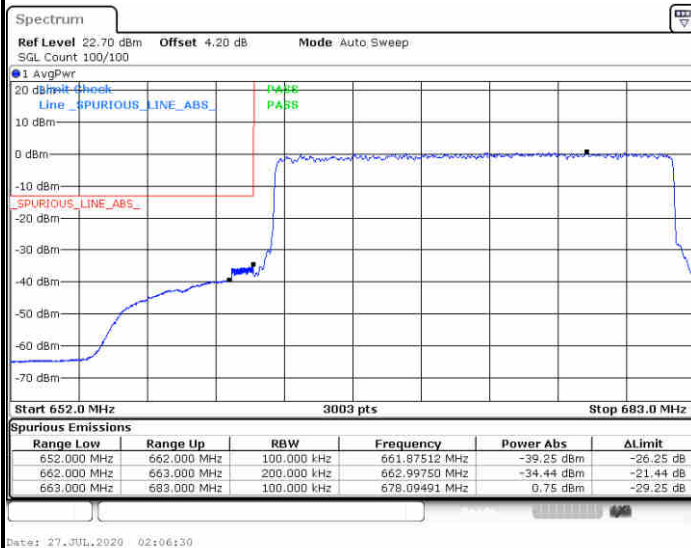
Lowest Band Edge / 1 RB



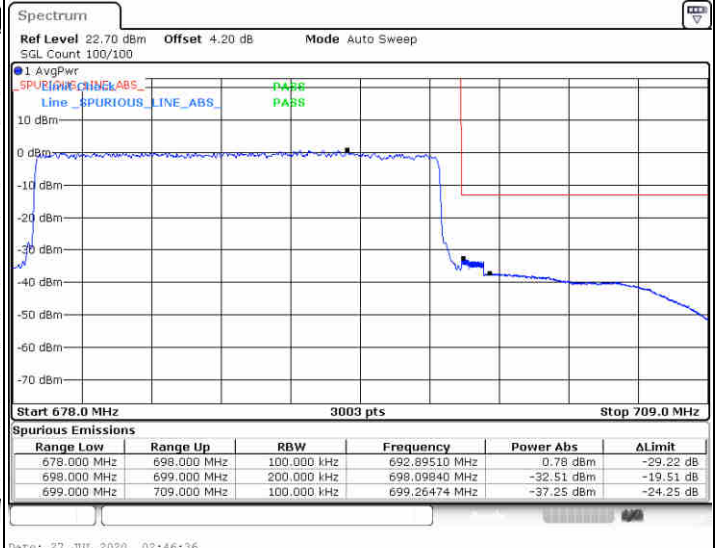
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

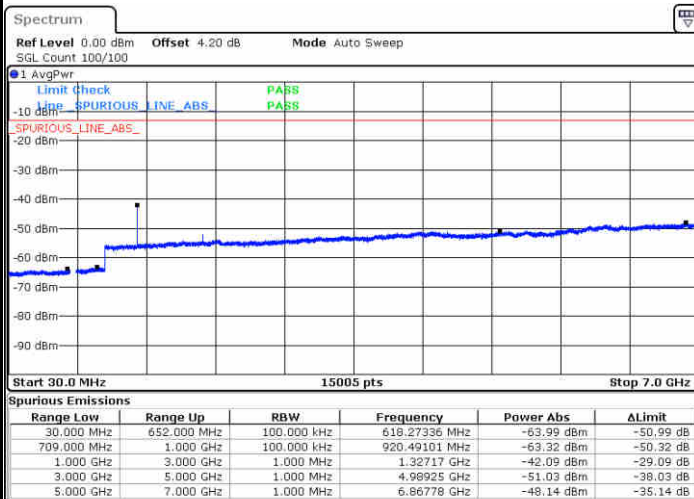




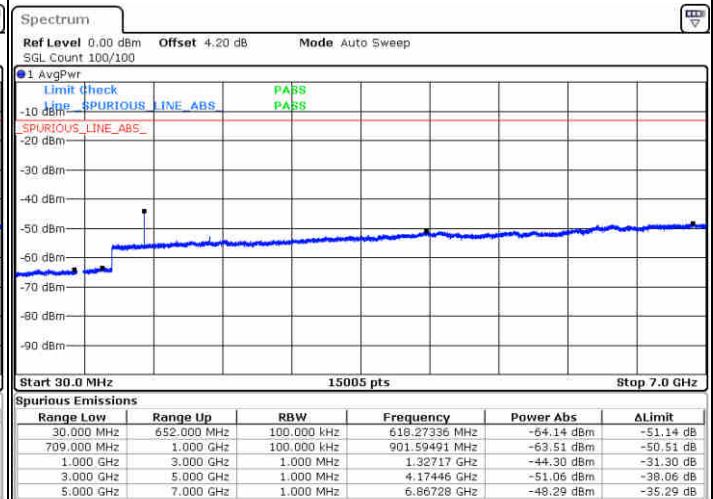
Conducted Spurious Emission

LTE Band 71 / 5MHz

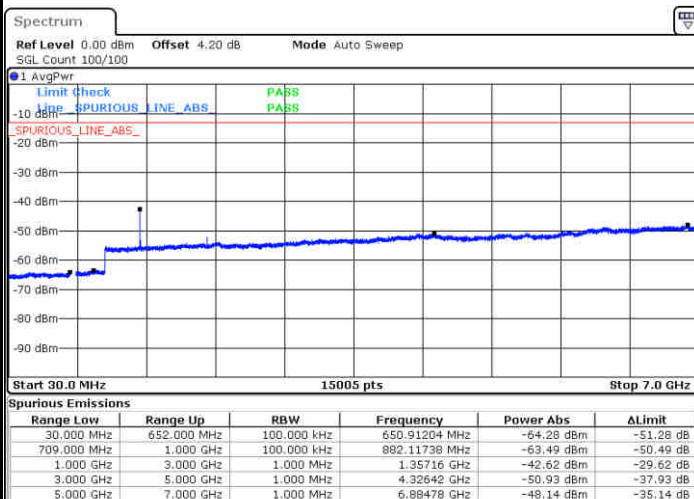
Lowest Channel / QPSK



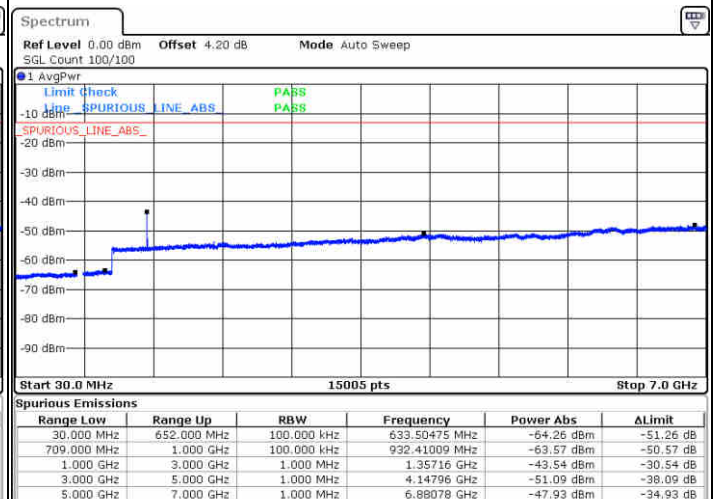
Lowest Channel / 16QAM



Middle Channel / QPSK



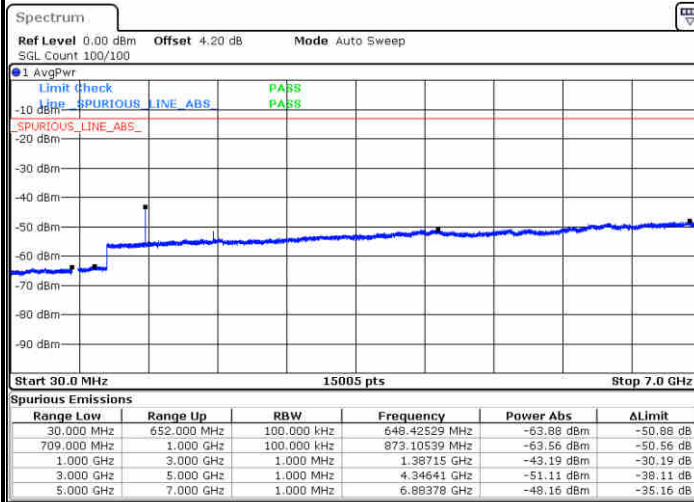
Middle Channel / 16QAM





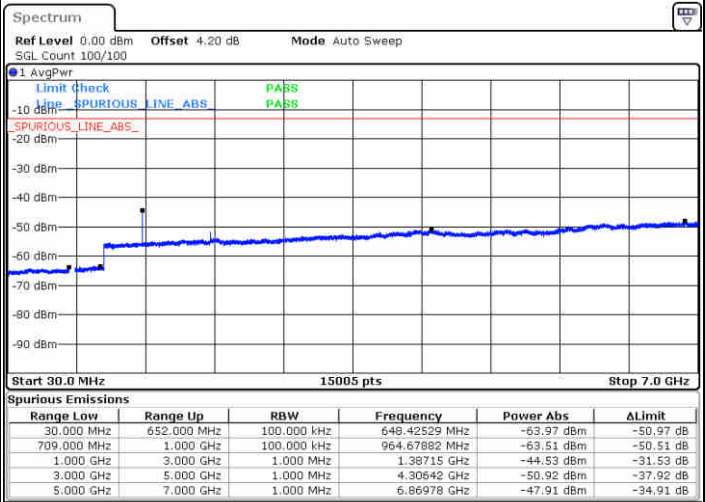
LTE Band 71 / 5MHz

Highest Channel / QPSK



Date: 27.JUL.2020 01:01:13

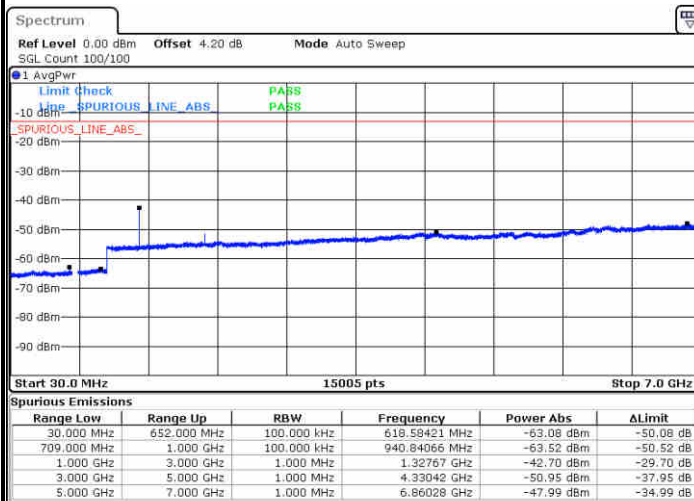
Highest Channel / 16QAM



Date: 27.JUL.2020 01:01:53

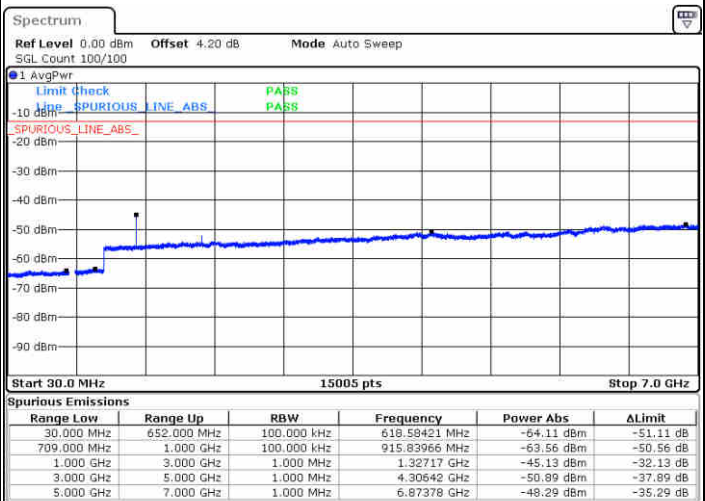
LTE Band 71 / 10MHz

Lowest Channel / QPSK



Date: 27.JUL.2020 01:17:48

Lowest Channel / 16QAM

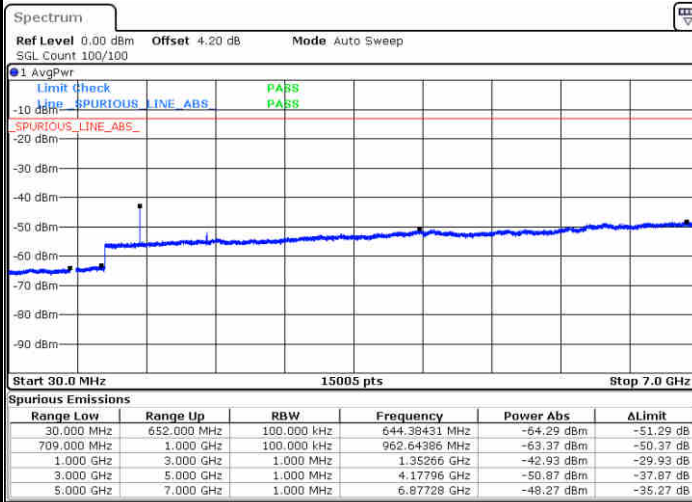


Date: 27.JUL.2020 01:17:09



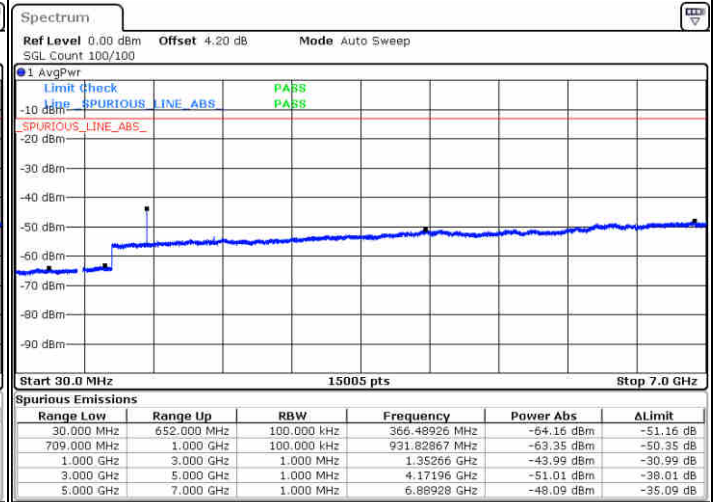
LTE Band 71 / 10MHz

Middle Channel / QPSK



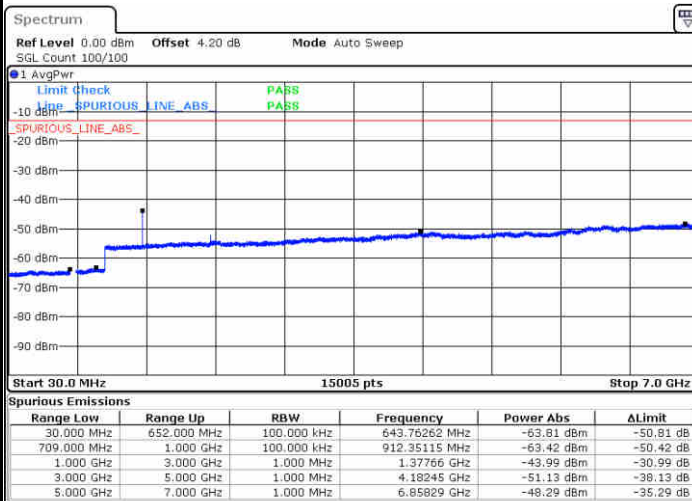
Date: 27.JUL.2020 01:19:21

Middle Channel / 16QAM



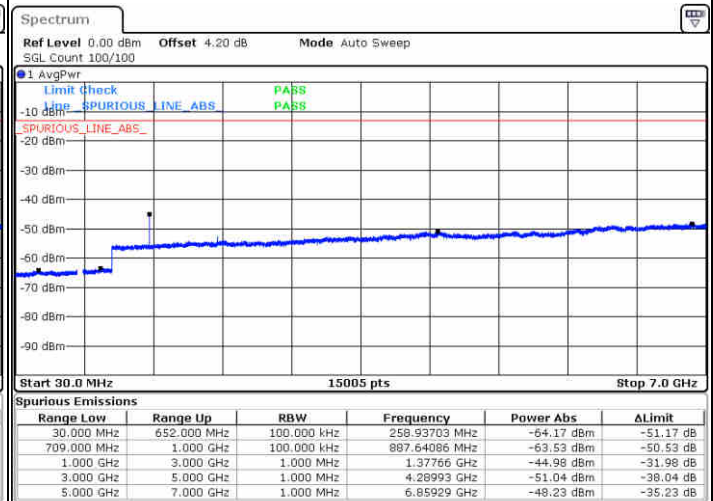
Date: 27.JUL.2020 01:20:03

Highest Channel / QPSK



Date: 27.JUL.2020 01:32:13

Highest Channel / 16QAM

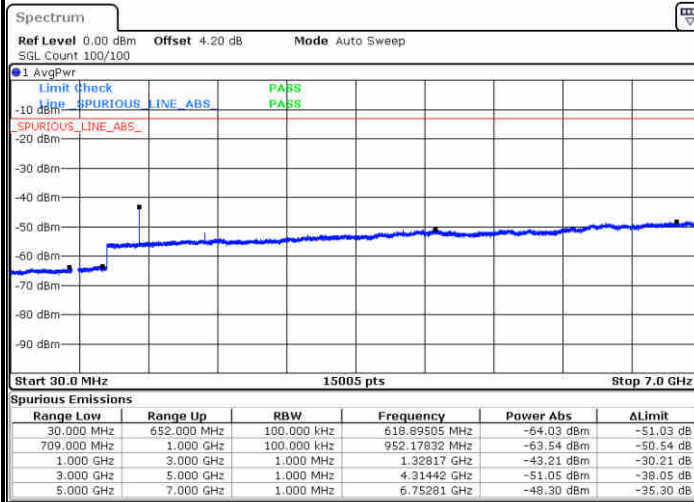


Date: 27.JUL.2020 01:31:28



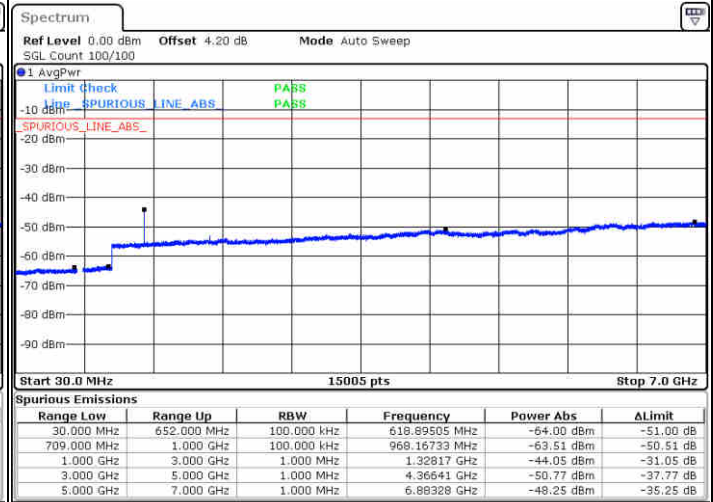
LTE Band 71 / 15MHz

Lowest Channel / QPSK



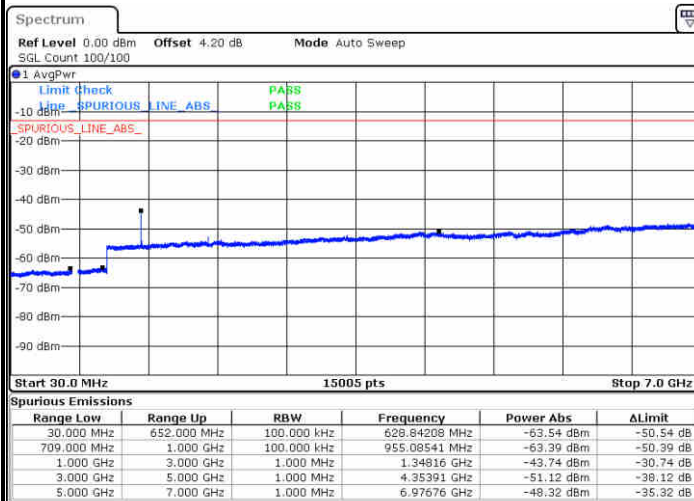
Date: 27.JUL.2020 01:42:51

Lowest Channel / 16QAM



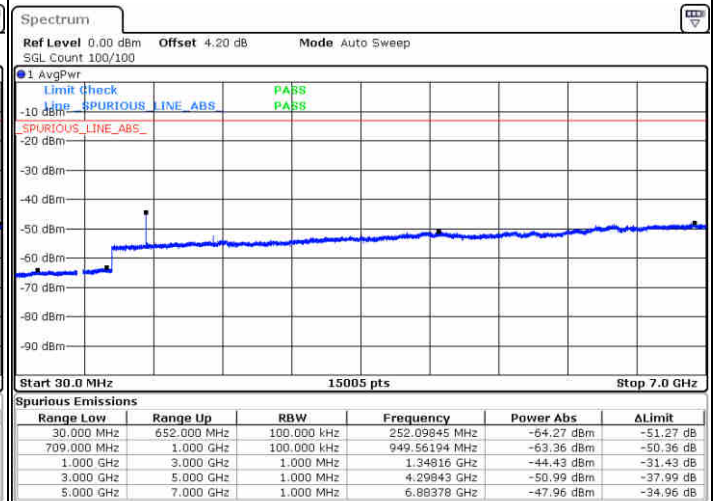
Date: 27.JUL.2020 01:44:09

Middle Channel / QPSK



Date: 27.JUL.2020 01:48:13

Middle Channel / 16QAM

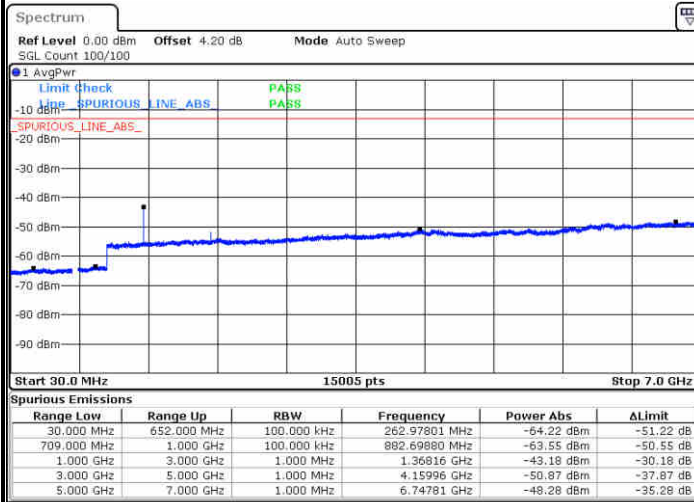


Date: 27.JUL.2020 01:47:45



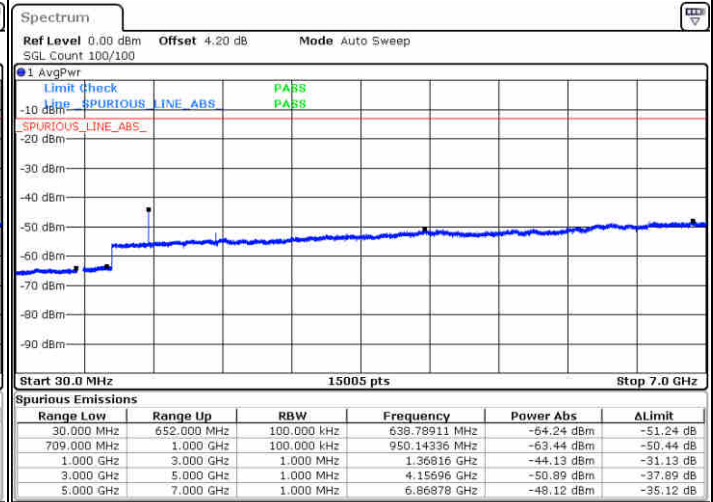
LTE Band71 / 15MHz

Highest Channel / QPSK



Date: 27.JUL.2020 01:55:58

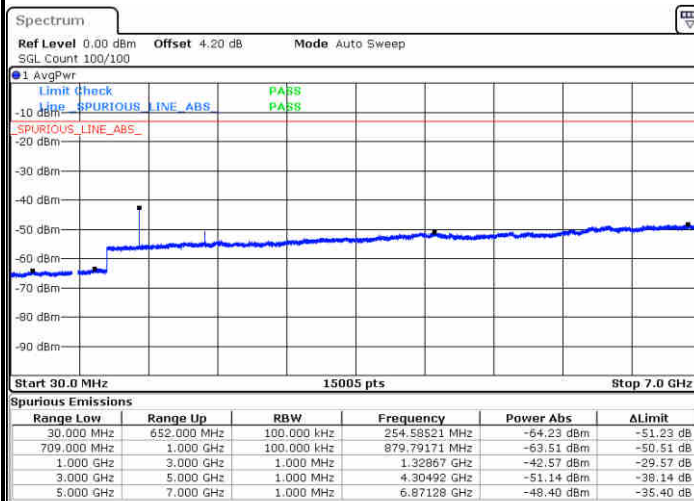
Highest Channel / 16QAM



Date: 27.JUL.2020 01:56:27

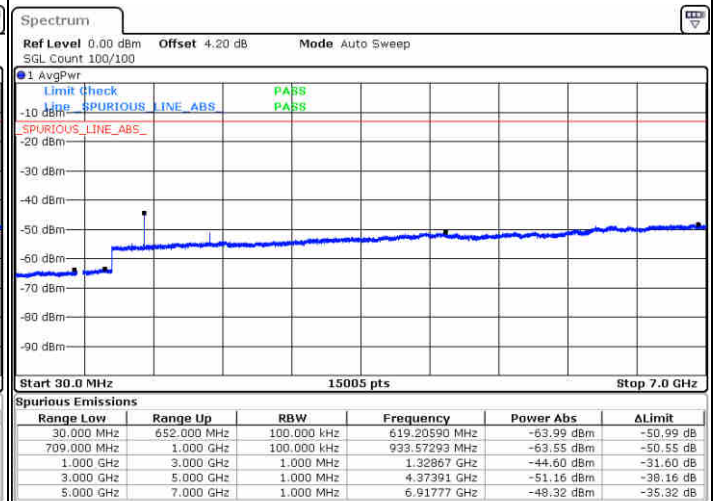
LTE Band 71 / 20MHz

Lowest Channel / QPSK



Date: 27.JUL.2020 02:11:47

Lowest Channel / 16QAM

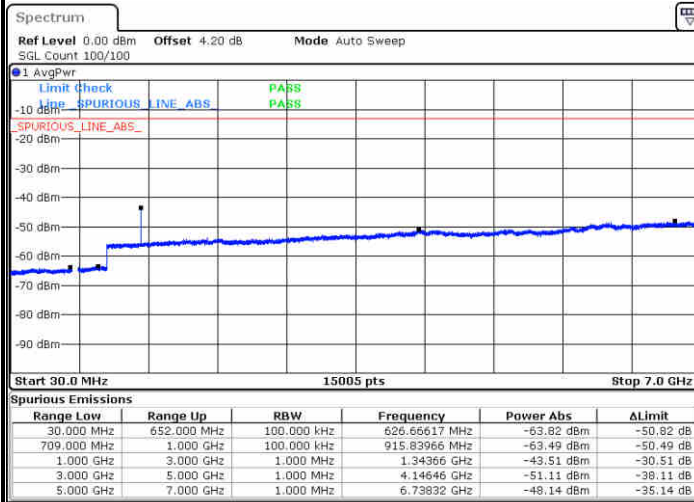


Date: 27.JUL.2020 02:09:30



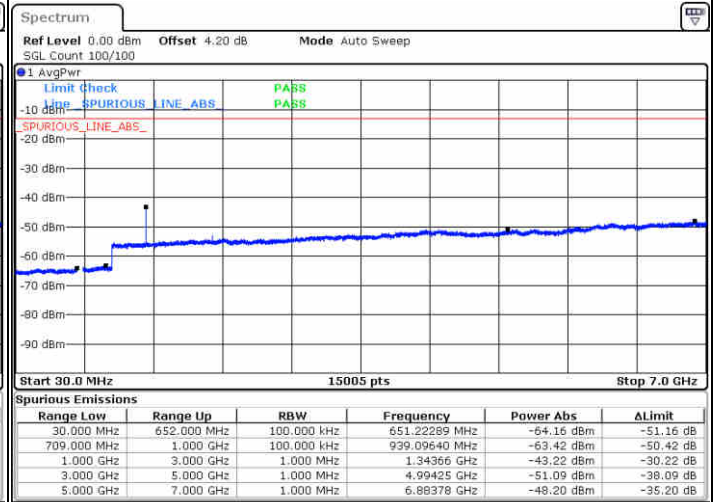
LTE Band 71 / 20MHz

Middle Channel / QPSK



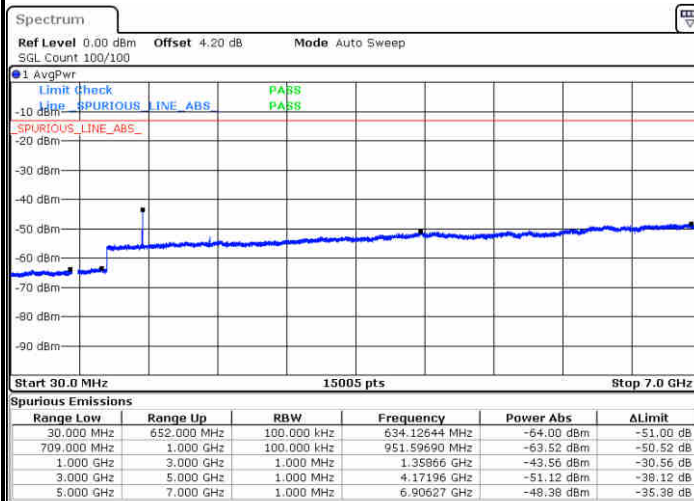
Date: 27.JUL.2020 02:40:40

Middle Channel / 16QAM



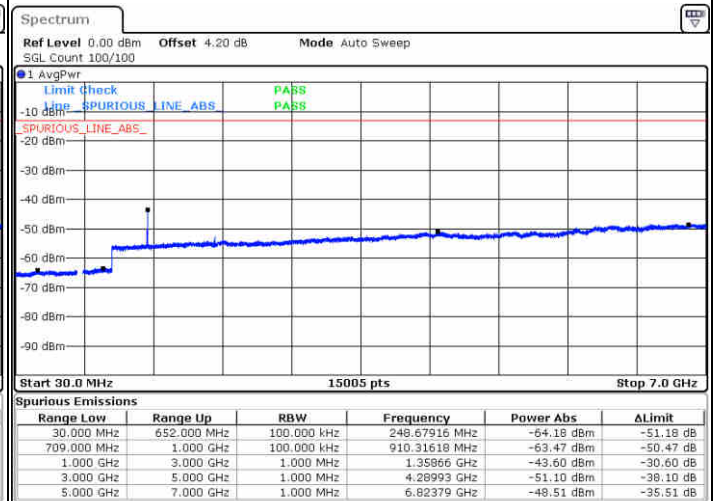
Date: 27.JUL.2020 02:41:22

Highest Channel / QPSK



Date: 27.JUL.2020 02:51:01

Highest Channel / 16QAM

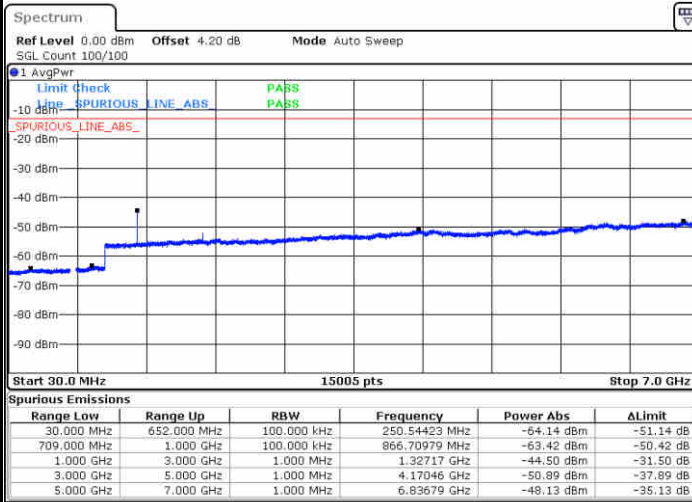


Date: 27.JUL.2020 02:51:40



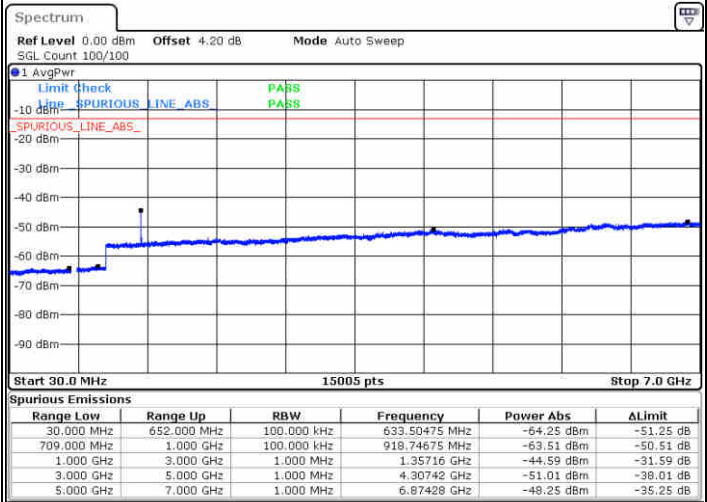
LTE Band 71 / 5MHz

Lowest Channel / 64QAM



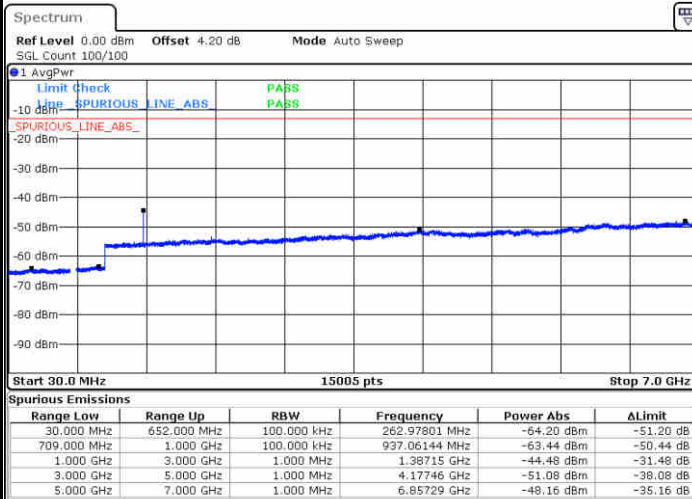
Date: 27.JUL.2020 00:45:09

Middle Channel / 64QAM



Date: 27.JUL.2020 00:52:47

Highest Channel / 64QAM

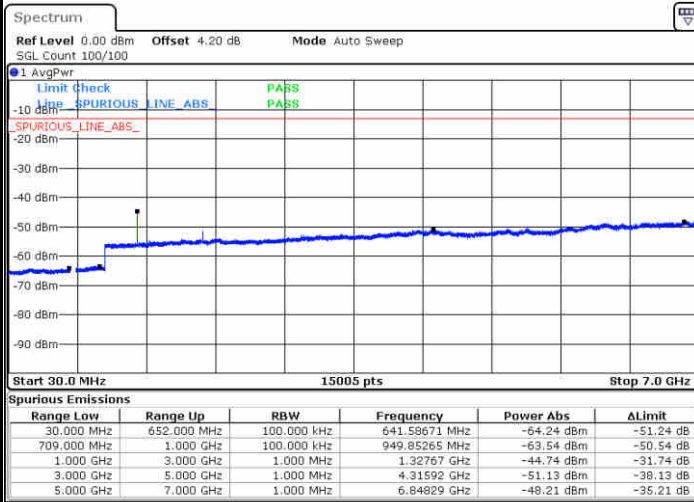


Date: 27.JUL.2020 01:02:44



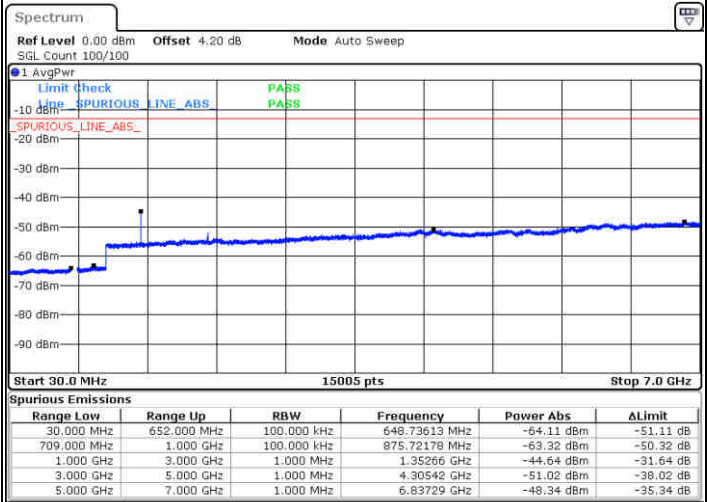
LTE Band 71 / 10MHz

Lowest Channel / 64QAM



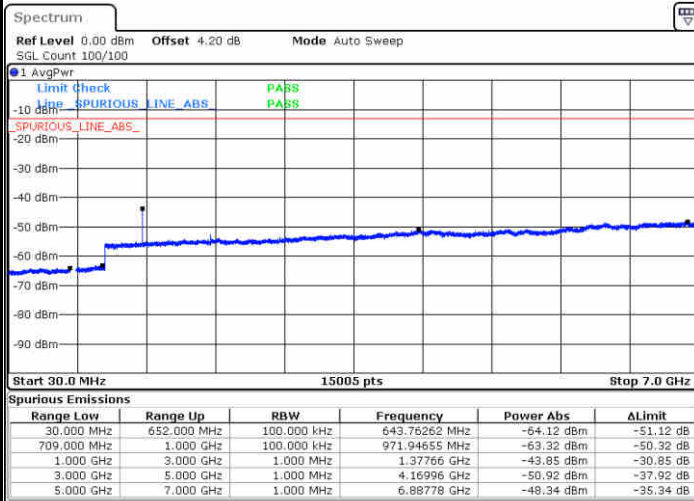
Date: 27.JUL.2020 01:15:22

Middle Channel / 64QAM



Date: 27.JUL.2020 01:20:36

Highest Channel / 64QAM

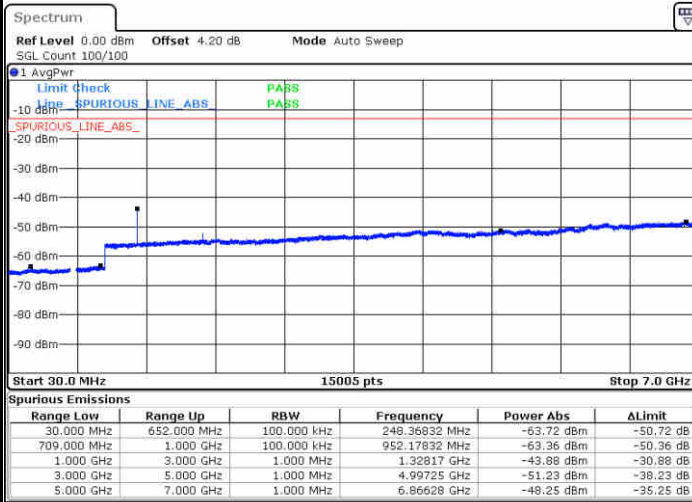


Date: 27.JUL.2020 01:30:57



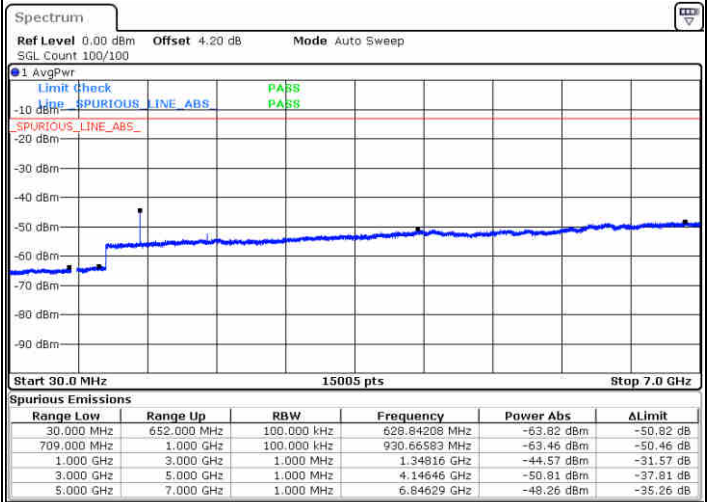
LTE Band 71 / 15MHz

Lowest Channel / 64QAM



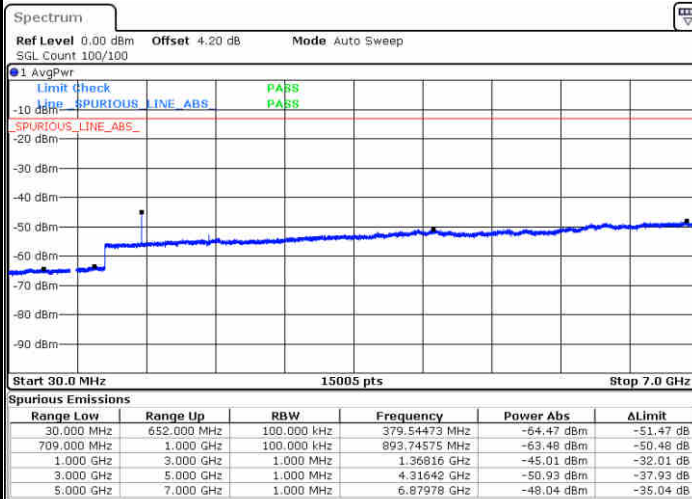
Date: 27.JUL.2020 01:45:37

Middle Channel / 64QAM



Date: 27.JUL.2020 01:46:57

Highest Channel / 64QAM

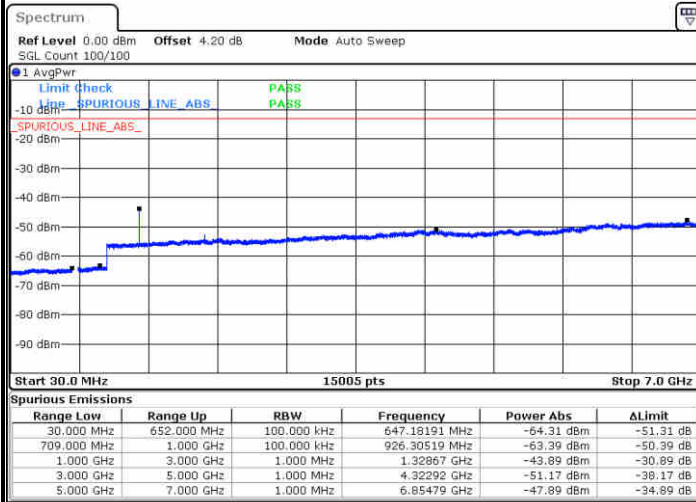


Date: 27.JUL.2020 01:57:19



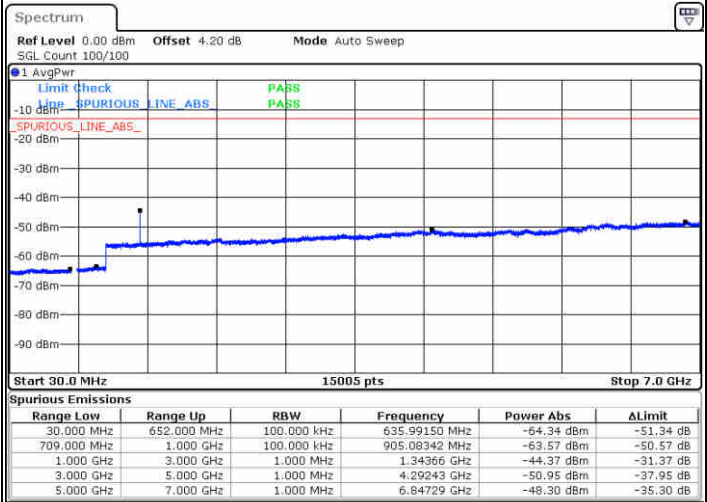
LTE Band 71 / 20MHz

Lowest Channel / 64QAM



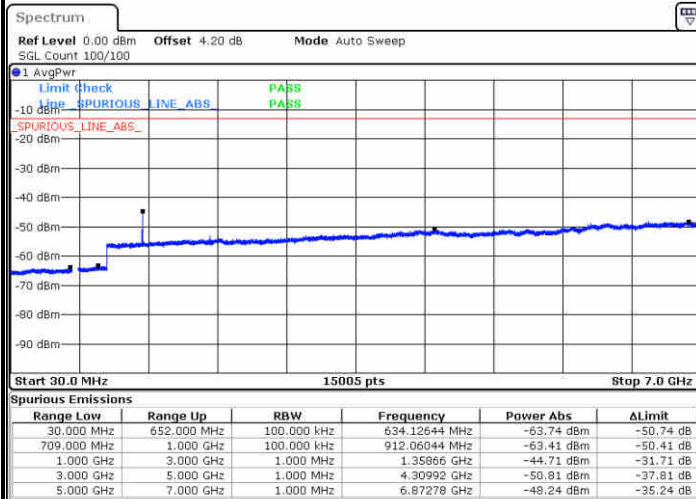
Date: 27.JUL.2020 02:08:11

Middle Channel / 64QAM



Date: 27.JUL.2020 02:42:21

Highest Channel / 64QAM



Date: 27.JUL.2020 02:52:44

Frequency Stability

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0055	PASS
40	Normal Voltage	0.0030	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0041	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0033	
20	Normal Voltage	0.0028	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.135 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

Ant 1

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)
Lowest	5004	-60.54	-13	-47.54	-70.75	3.03	13.24	H
	7504	-58.49	-13	-45.49	-67.94	3.56	13.01	H
	10004.36	-58.46	-13	-45.46	-67.98	3.92	13.44	H
	5004	-58.56	-13	-45.56	-68.77	3.03	13.24	V
	7504	-59.00	-13	-46.00	-68.45	3.56	13.01	V
	10004.36	-58.84	-13	-45.84	-68.36	3.92	13.44	V
Middle	5052	-60.62	-13	-47.62	-70.83	3.03	13.24	H
	7580	-58.72	-13	-45.72	-68.17	3.56	13.01	H
	10100	-57.52	-13	-44.52	-67.04	3.92	13.44	H
	5052	-61.09	-13	-48.09	-71.30	3.03	13.24	V
	7580	-59.61	-13	-46.61	-69.06	3.56	13.01	V
	10100	-58.58	-13	-45.58	-68.10	3.92	13.44	V
Highest	5104	-60.34	-13	-47.34	-70.55	3.03	13.24	H
	7652	-58.68	-13	-45.68	-68.13	3.56	13.01	H
	10200	-57.78	-13	-44.78	-67.30	3.92	13.44	H
	5104	-59.59	-13	-46.59	-69.80	3.03	13.24	V
	7652	-59.01	-13	-46.01	-68.46	3.56	13.01	V
	10200	-58.43	-13	-45.43	-67.95	3.92	13.44	V

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



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)
Lowest	1400	-64.66	-13	-51.66	-71.63	1.58	10.70	H
	2098	-58.84	-13	-45.84	-67.09	2.102	12.50	H
	2798	-58.38	-13	-45.38	-67.27	2.856	13.90	H
	3498	-56.72	-13	-43.72	-65.18	2.689	13.30	H
	1399	-64.37	-13	-51.37	-71.34	1.58	10.70	V
	2098	-55.09	-13	-42.09	-63.34	2.10	12.50	V
	2798	-58.13	-13	-45.13	-67.02	2.86	13.90	V
	3498	-56.64	-13	-43.64	-65.10	2.69	13.30	V
Middle	1406	-64.68	-13	-51.68	-71.65	1.58	10.70	H
	2110	-58.13	-13	-45.13	-66.38	2.102	12.50	H
	2812	-58.30	-13	-45.30	-67.19	2.856	13.90	H
	3516	-56.49	-13	-43.49	-64.95	2.689	13.30	H
	1406	-64.63	-13	-51.63	-71.60	1.58	10.70	V
	2110	-55.88	-13	-42.88	-64.13	2.10	12.50	V
	2812	-58.11	-13	-45.11	-67.00	2.86	13.90	V
	3516	-56.47	-13	-43.47	-64.93	2.69	13.30	V
Highest	1412	-64.56	-13	-51.56	-71.53	1.58	10.70	H
	2119.5	-58.68	-13	-45.68	-66.93	2.102	12.50	H
	2826	-58.33	-13	-45.33	-67.22	2.856	13.90	H
	3534	-56.70	-13	-43.70	-65.16	2.689	13.30	H
	1412	-64.14	-13	-51.14	-71.11	1.58	10.70	V
	2120	-56.10	-13	-43.10	-64.35	2.10	12.50	V
	2826	-58.05	-13	-45.05	-66.94	2.86	13.90	V
	3534	-56.62	-13	-43.62	-65.08	2.69	13.30	V

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



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)
Lowest	1554	-64.05	-13	-51.05	-66.68	1.09	5.87	H
	2332	-58.66	-13	-45.66	-61.06	1.37	5.92	H
	3108	-56.91	-13	-43.91	-60.80	1.64	7.68	H
	1554	-63.37	-13	-50.37	-66.00	1.09	5.87	V
	2332	-58.10	-13	-45.10	-60.50	1.37	5.92	V
	3108	-56.74	-13	-43.74	-60.63	1.64	7.68	V
Middle	1560	-64.56	-42.15	-22.41	-67.19	1.09	5.87	H
	2340	-57.60	-13	-44.60	-60.00	1.37	5.92	H
	3120	-58.12	-13	-45.12	-62.01	1.64	7.68	H
	1560	-64.97	-42.15	-22.82	-67.60	1.09	5.87	V
	2340	-57.60	-13	-44.60	-60.00	1.37	5.92	V
	3120	-58.00	-13	-45.00	-61.89	1.64	7.68	V
Highest	1564	-63.12	-42.15	-20.97	-65.75	1.09	5.87	H
	2348	-59.55	-13	-46.55	-61.95	1.37	5.92	H
	3132	-57.73	-13	-44.73	-61.62	1.64	7.68	H
	1564	-62.81	-42.15	-20.66	-65.44	1.09	5.87	V
	2348	-58.85	-13	-45.85	-61.25	1.37	5.92	V
	3132	-56.88	-13	-43.88	-60.77	1.64	7.68	V

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

LTE Band 13 / 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	1556	-64.97	-13	-51.97	-67.60	1.09	5.87	H
	2332.5	-57.78	-13	-44.78	-60.18	1.37	5.92	H
	3108	-58.01	-13	-45.01	-61.90	1.64	7.68	H
	1556	-64.92	-13	-51.92	-67.55	1.09	5.87	V
	2332.5	-57.43	-13	-44.43	-59.83	1.37	5.92	V
	3108	-58.16	-13	-45.16	-62.05	1.64	7.68	V

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



LTE Band 41 / 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	5004	-60.94	-13	-47.94	-71.15	3.03	13.24	H
	7504	-59.12	-13	-46.12	-68.57	3.56	13.01	H
	10000	-58.52	-13	-45.52	-68.04	3.92	13.44	H
	5004	-60.15	-13	-47.15	-70.36	3.03	13.24	V
	7504	-58.96	-13	-45.96	-68.41	3.56	13.01	V
	10000	-58.63	-13	-45.63	-68.15	3.92	13.44	V
Middle	5168	-60.36	-13	-47.36	-70.57	3.03	13.24	H
	7752	-58.93	-13	-45.93	-68.38	3.56	13.01	H
	10340	-57.27	-13	-44.27	-66.79	3.92	13.44	H
	5168	-59.84	-13	-46.84	-70.05	3.03	13.24	V
	7752	-59.48	-13	-46.48	-68.93	3.56	13.01	V
	10340	-58.26	-13	-45.26	-67.78	3.92	13.44	V
Highest	5340	-61.86	-13	-48.86	-72.07	3.03	13.24	H
	8010	-58.21	-13	-45.21	-67.66	3.56	13.01	H
	10680	-56.35	-13	-43.35	-65.87	3.92	13.44	H
	5340	-59.93	-13	-46.93	-70.14	3.03	13.24	V
	8010	-58.73	-13	-45.73	-68.18	3.56	13.01	V
	10680	-57.97	-13	-44.97	-67.49	3.92	13.44	V

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



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)
Lowest	1328	-66.07	-13	-53.07	-67.82	1.02	4.92	H
	1992	-60.19	-13	-47.19	-62.16	1.27	5.39	H
	2656	-59.69	-13	-46.69	-62.62	1.49	6.57	H
	3318	-57.08	-13	-44.08	-60.48	1.73	7.28	H
	1328	-65.75	-13	-52.75	-67.50	1.02	4.92	V
	1992	-60.03	-13	-47.03	-62.00	1.27	5.39	V
	2656	-59.21	-13	-46.21	-62.14	1.49	6.57	V
	3318	-57.42	-13	-44.42	-60.82	1.73	7.28	V
Middle	1348	-66.11	-13	-53.11	-67.86	1.02	4.92	H
	2022	-59.92	-13	-46.92	-61.89	1.27	5.39	H
	2696	-59.59	-13	-46.59	-62.52	1.49	6.57	H
	3372	-57.23	-13	-44.23	-60.63	1.73	7.28	H
	1348	-65.77	-13	-52.77	-67.52	1.02	4.92	V
	2022	-60.05	-13	-47.05	-62.02	1.27	5.39	V
	2696	-59.14	-13	-46.14	-62.07	1.49	6.57	V
	3372	-57.27	-13	-44.27	-60.67	1.73	7.28	V
Highest	1358	-65.91	-13	-52.91	-67.66	1.02	4.92	H
	2038	-60.16	-13	-47.16	-62.13	1.27	5.39	H
	2716	-59.51	-13	-46.51	-62.44	1.49	6.57	H
	3396	-57.01	-13	-44.01	-60.41	1.73	7.28	H
	1358	-65.93	-13	-52.93	-67.68	1.02	4.92	V
	2038	-59.39	-13	-46.39	-61.36	1.27	5.39	V
	2716	-59.24	-13	-46.24	-62.17	1.49	6.57	V
	3396	-57.07	-13	-44.07	-60.47	1.73	7.28	V

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

Ant 2

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	5050	-62.38	-13	-49.38	-68.99	2.79	9.40	H
	7578	-61.79	-13	-48.79	-69.83	3.42	11.46	H
	10107	-60.53	-13	-47.53	-68.66	4.00	12.13	H
	5050	-61.20	-13	-48.2	-67.81	2.79	9.40	V
	7578	-61.34	-13	-48.34	-69.38	3.42	11.46	V
	10107	-59.72	-13	-46.72	-67.85	4.00	12.13	V

LTE Band 41 / 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)
Highest	5340	-63.03	-13	-50.03	-69.64	2.79	9.40	H
	8015	-61.05	-13	-48.05	-69.09	3.42	11.46	H
	10683	-59.17	-13	-46.17	-67.30	4.00	12.13	H
	5340	-59.72	-13	-46.72	-66.33	2.79	9.40	V
	8015	-59.71	-13	-46.71	-67.75	3.42	11.46	V
	10683	-59.11	-13	-46.11	-67.24	4.00	12.13	V

Remark:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. Ant 2 verify the worst of ant 1.