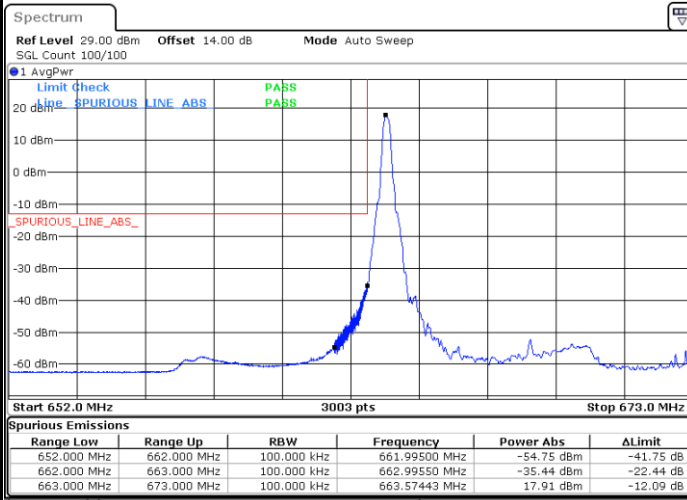




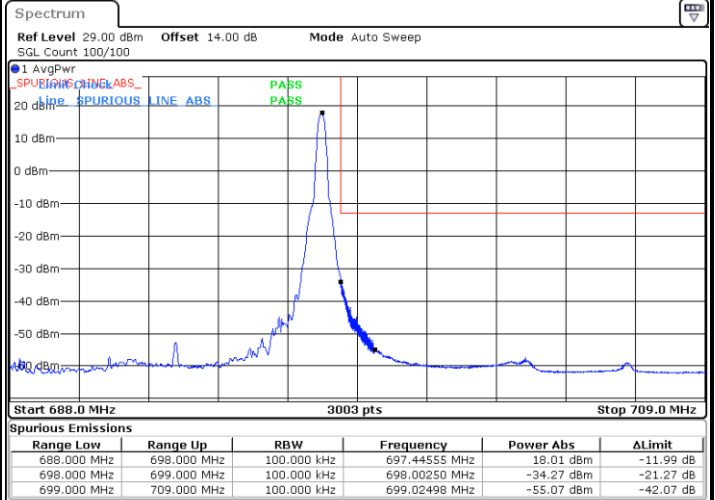
LTE Band 71 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



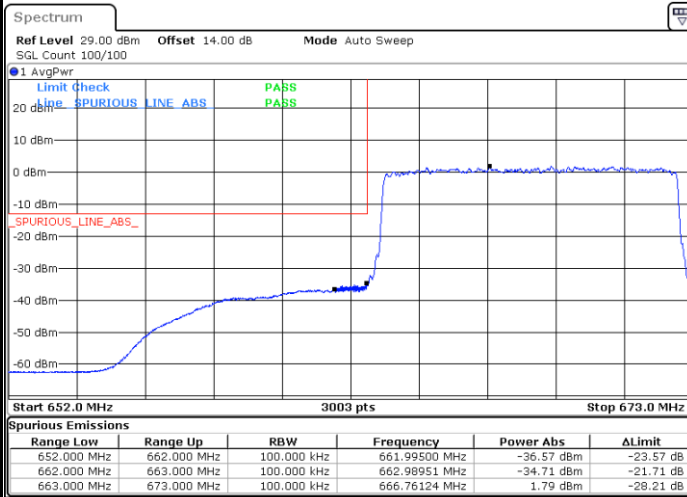
Date: 1.JUN.2021 11:50:26

Highest Band Edge / 1 RB



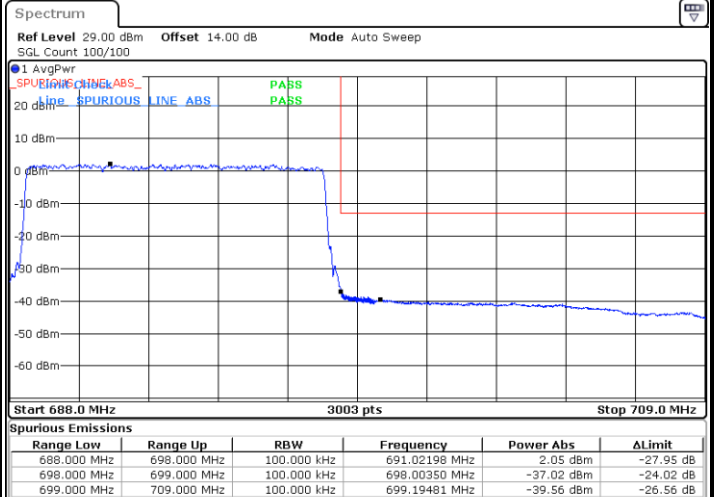
Date: 1.JUN.2021 11:56:44

Lowest Band Edge / Full RB



Date: 1.JUN.2021 11:51:58

Highest Band Edge / Full RB

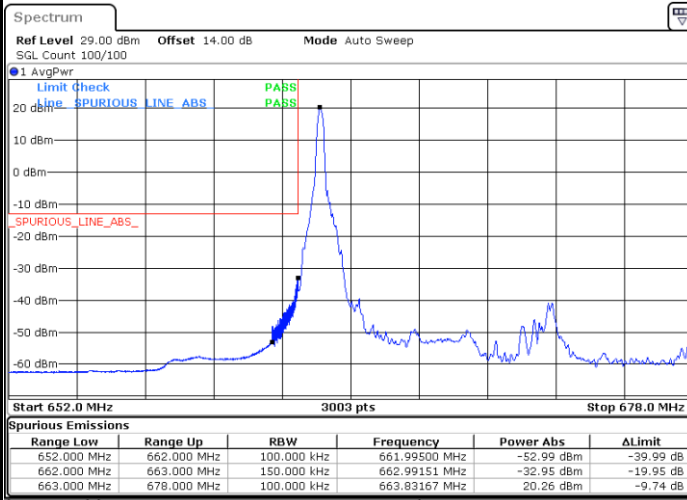


Date: 1.JUN.2021 11:58:17



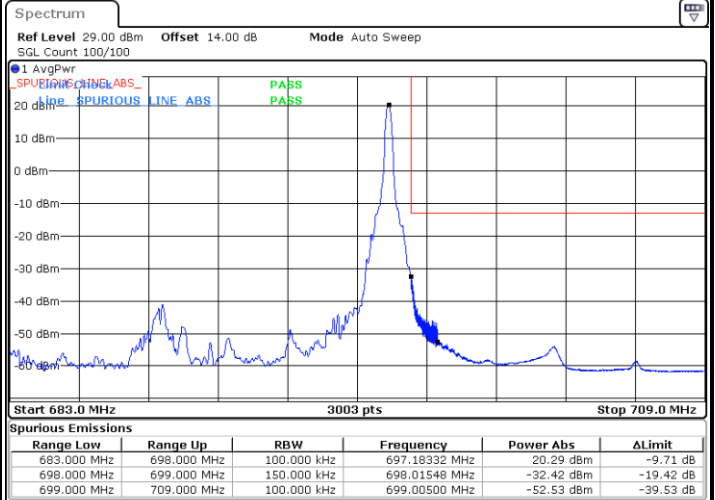
LTE Band 71 / 15MHz / QPSK

Lowest Band Edge / 1 RB



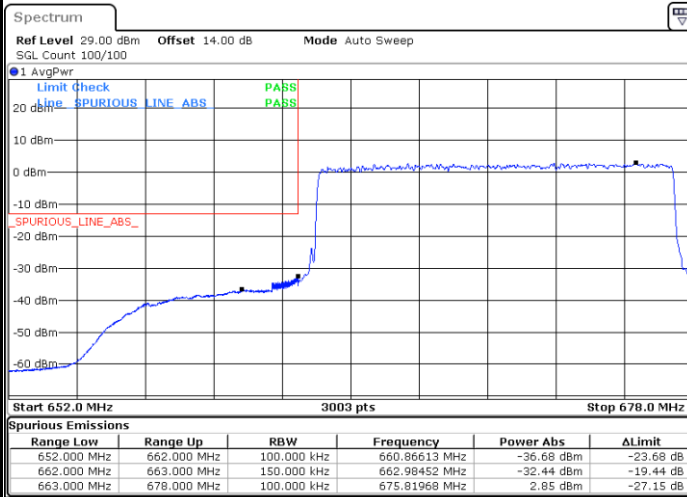
Date: 1.JUN.2021 12:03:01

Highest Band Edge / 1 RB



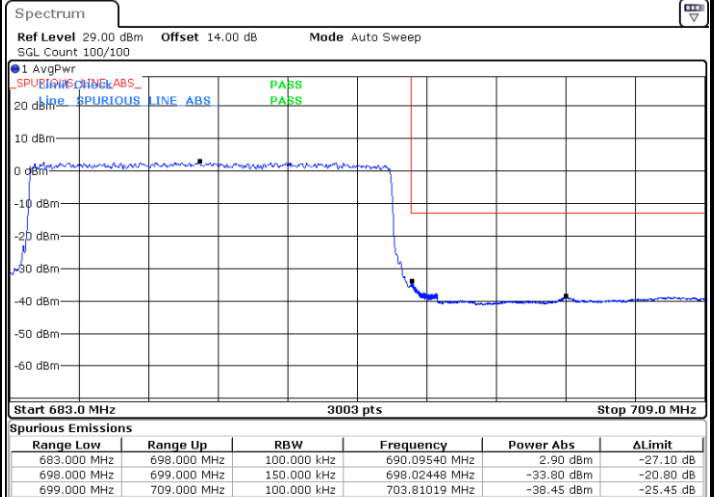
Date: 1.JUN.2021 12:16:13

Lowest Band Edge / Full RB



Date: 1.JUN.2021 12:06:07

Highest Band Edge / Full RB

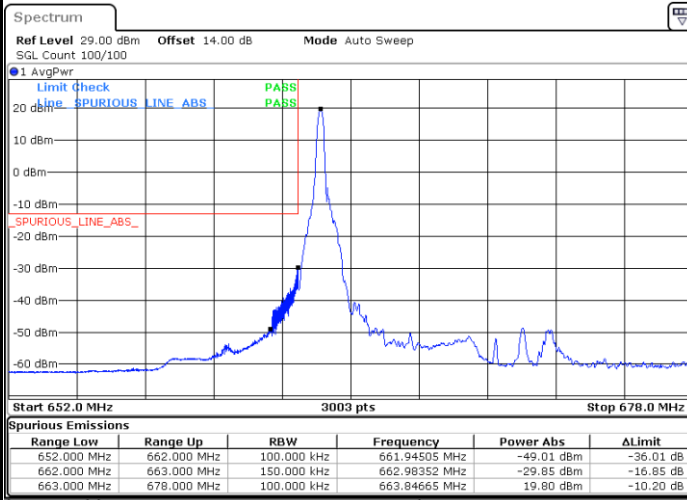


Date: 1.JUN.2021 12:19:19



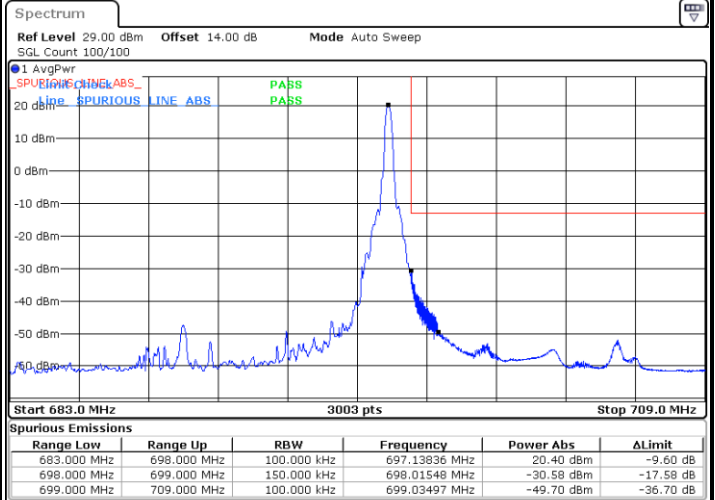
LTE Band 71 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



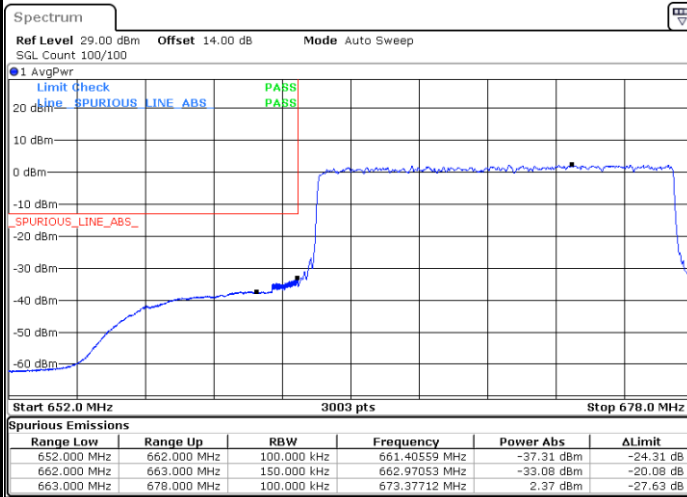
Date: 1.JUN.2021 12:04:34

Highest Band Edge / 1 RB



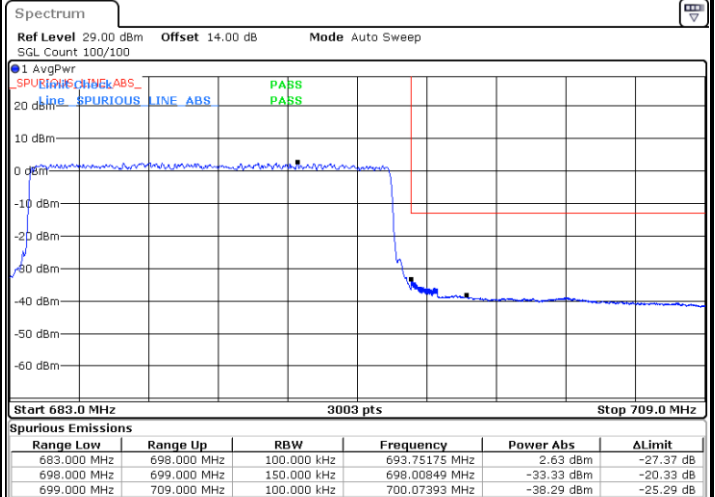
Date: 1.JUN.2021 12:17:46

Lowest Band Edge / Full RB



Date: 1.JUN.2021 12:07:40

Highest Band Edge / Full RB

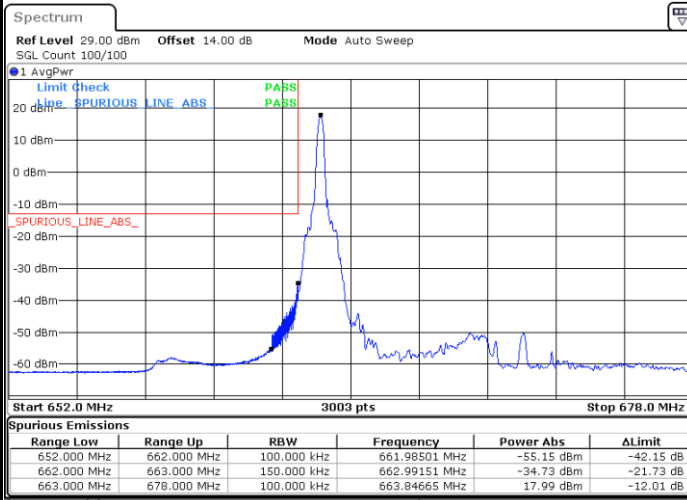


Date: 1.JUN.2021 12:20:52



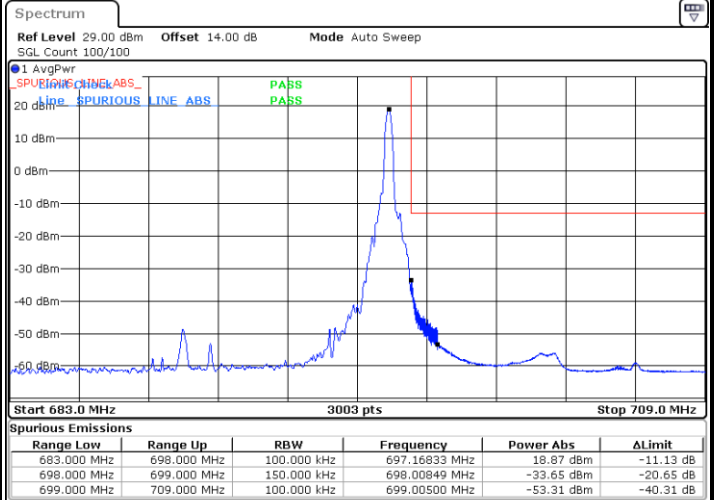
LTE Band 71 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



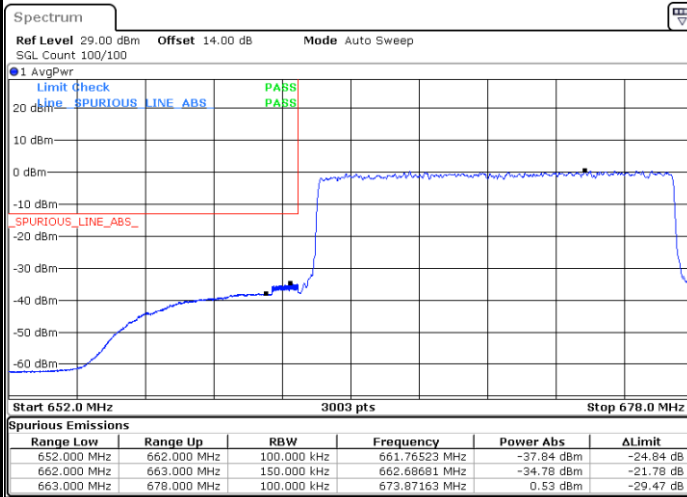
Date: 1.JUN.2021 12:24:58

Highest Band Edge / 1 RB



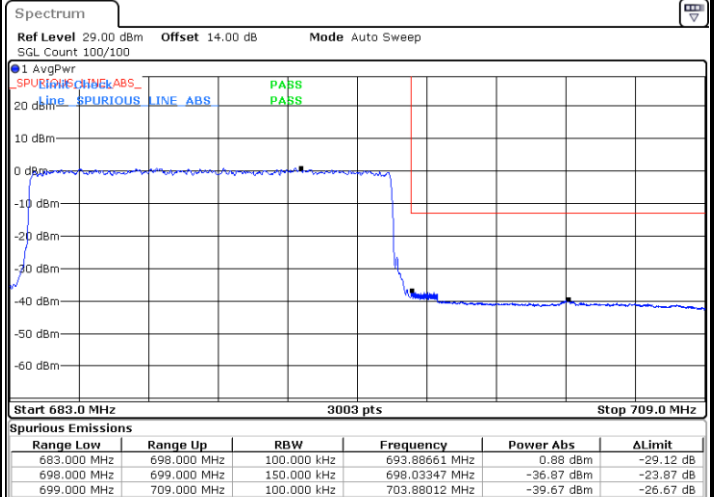
Date: 1.JUN.2021 12:31:17

Lowest Band Edge / Full RB



Date: 1.JUN.2021 12:26:31

Highest Band Edge / Full RB



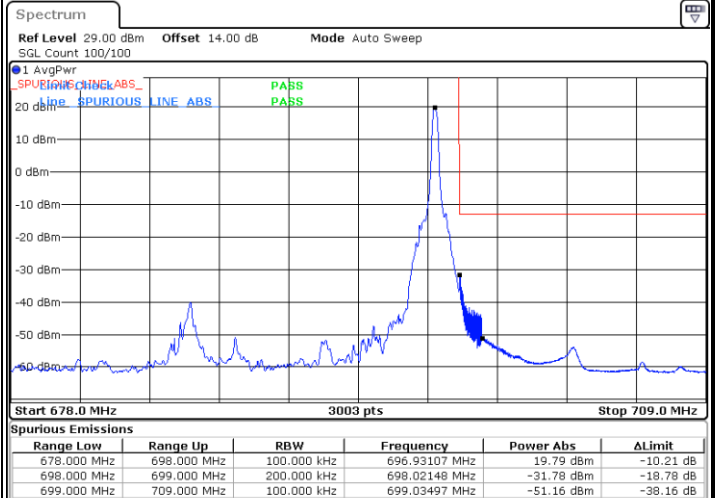
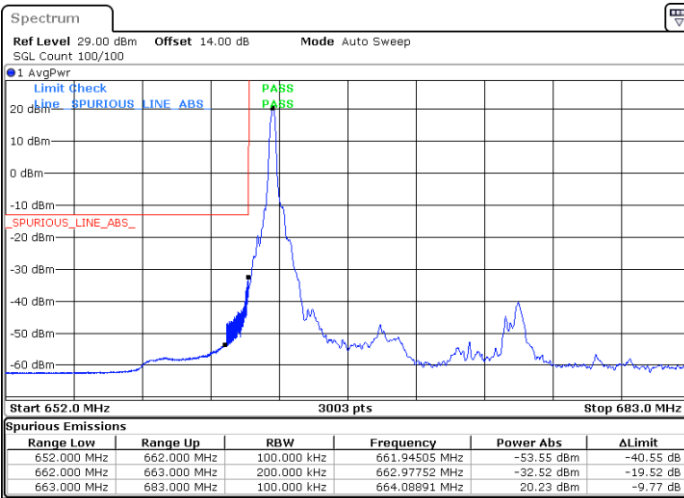
Date: 1.JUN.2021 12:32:50



LTE Band 71 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

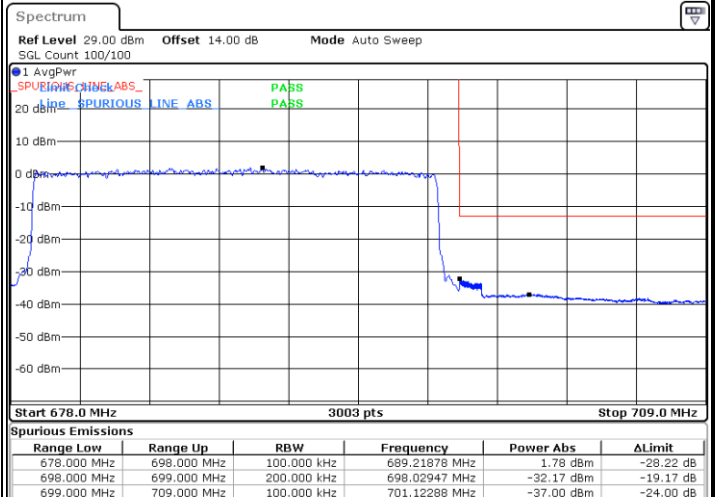
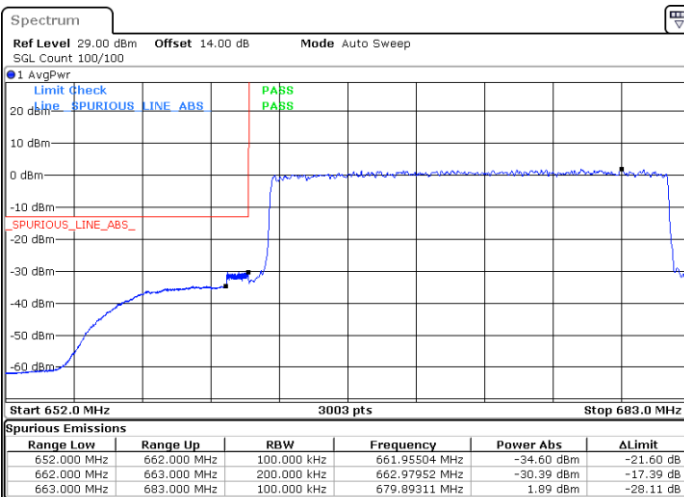


Date: 1 JUN, 2021 12:37:35

Date: 1 JUN, 2021 12:50:47

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



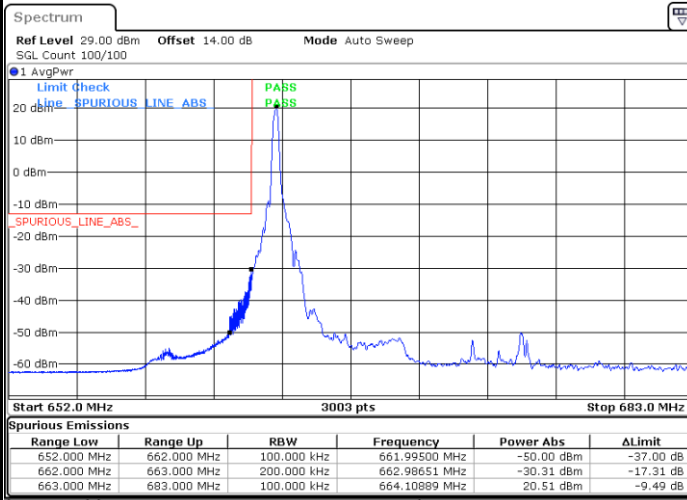
Date: 1 JUN, 2021 12:40:40

Date: 1 JUN, 2021 12:55:25



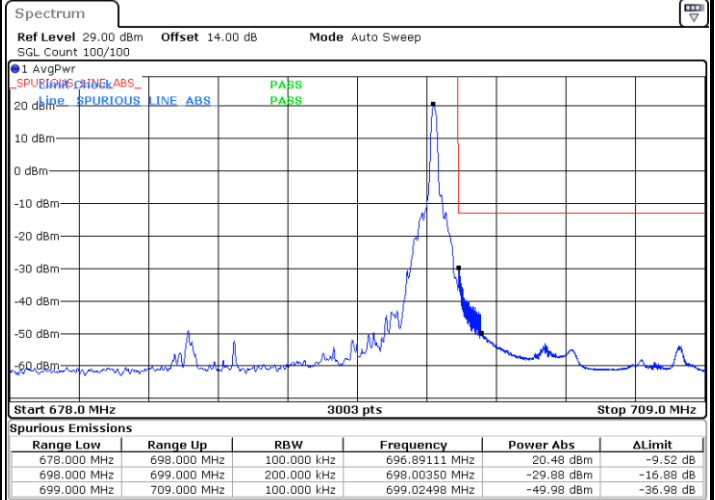
LTE Band 71 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



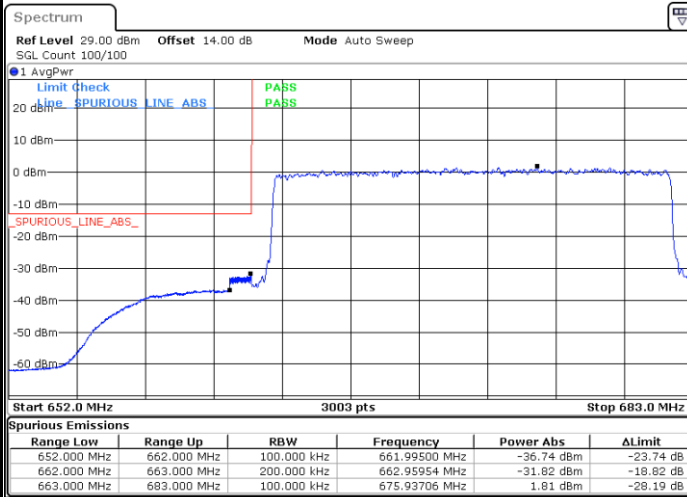
Date: 1.JUN.2021 12:39:07

Highest Band Edge / 1RB



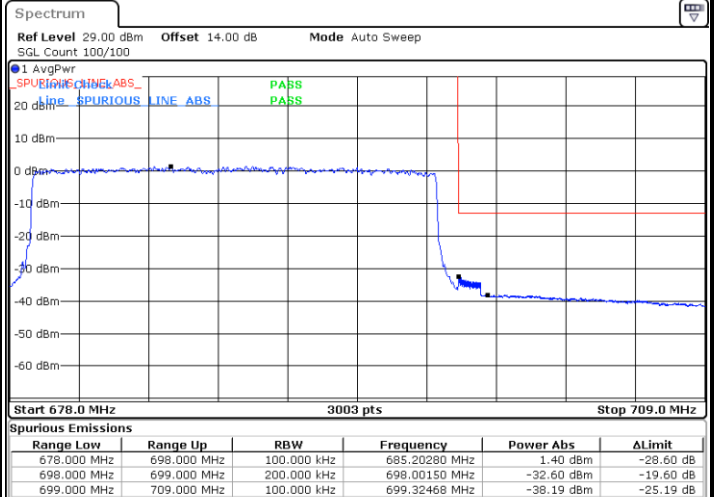
Date: 1.JUN.2021 12:52:19

Lowest Band Edge / Full RB



Date: 1.JUN.2021 12:42:13

Highest Band Edge / Full RB

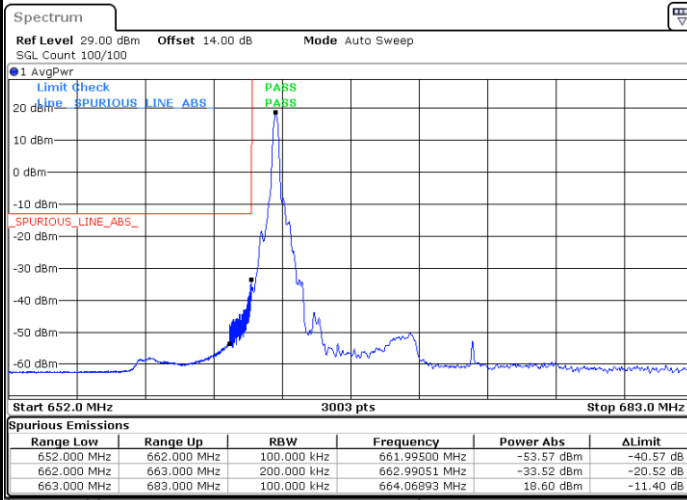


Date: 1.JUN.2021 12:53:52



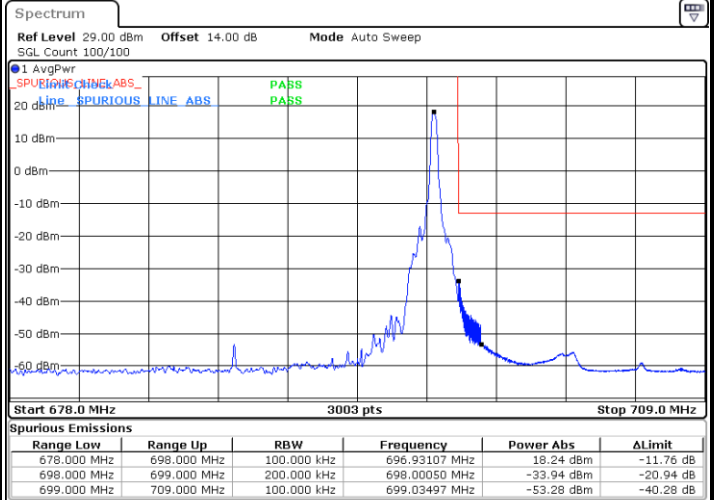
LTE Band 71 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



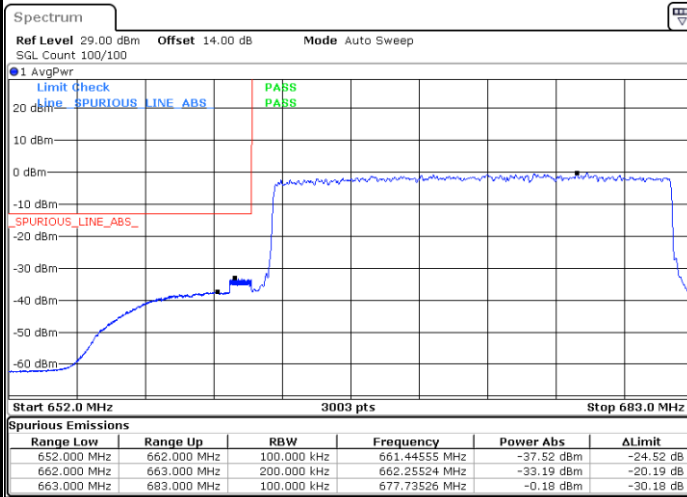
Date: 1.JUN.2021 12:59:30

Highest Band Edge / 1 RB



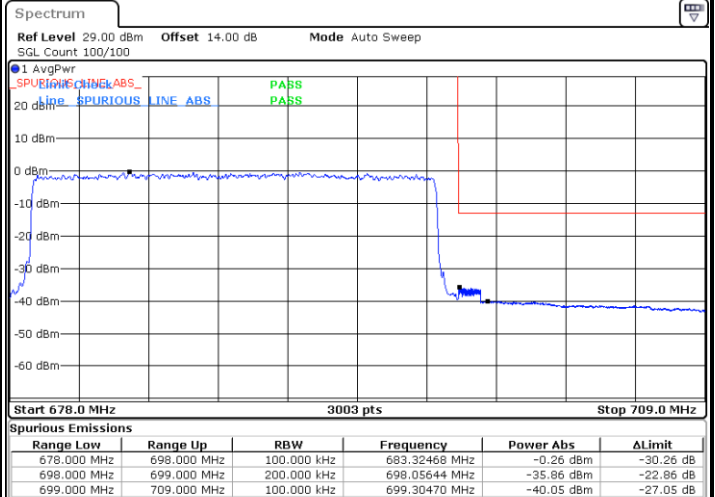
Date: 1.JUN.2021 13:05:50

Lowest Band Edge / Full RB



Date: 1.JUN.2021 13:01:03

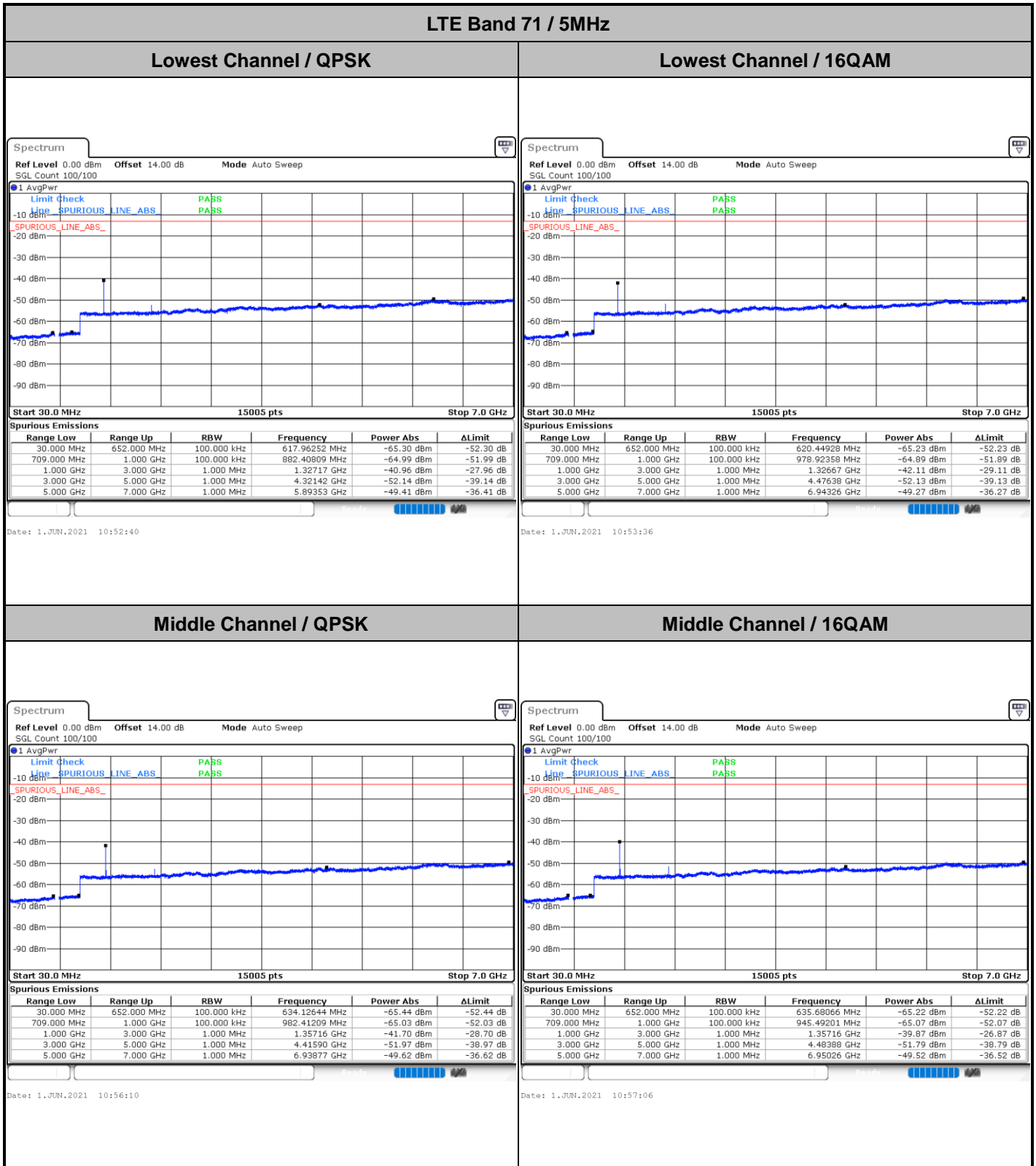
Highest Band Edge / Full RB



Date: 1.JUN.2021 13:07:22



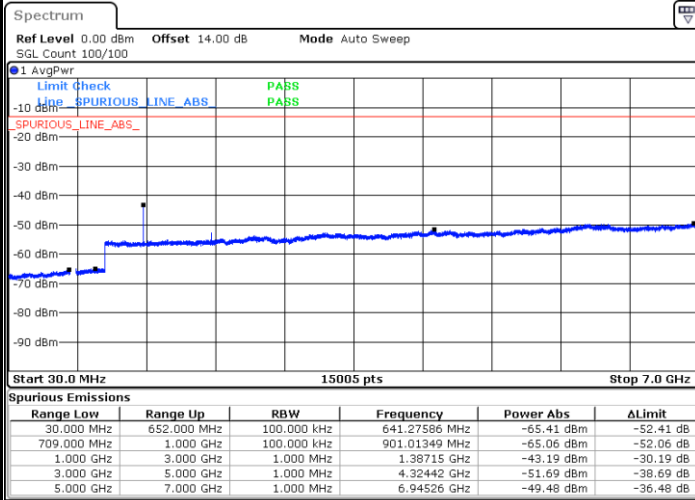
Conducted Spurious Emission





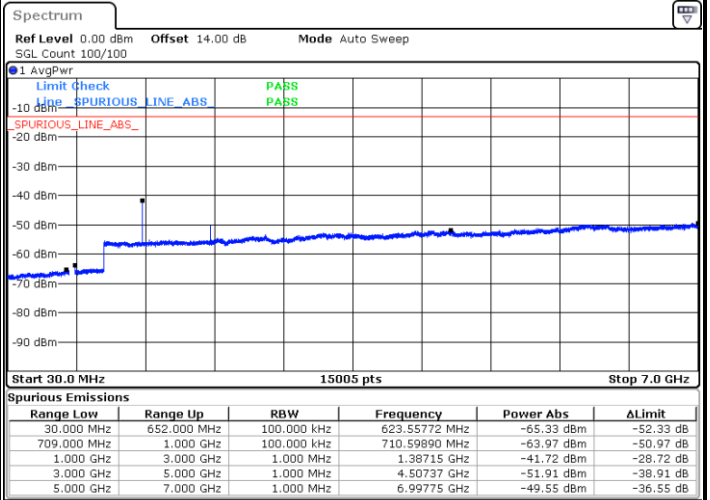
LTE Band 71 / 5MHz

Highest Channel / QPSK



Date: 1 JUN. 2021 11:05:49

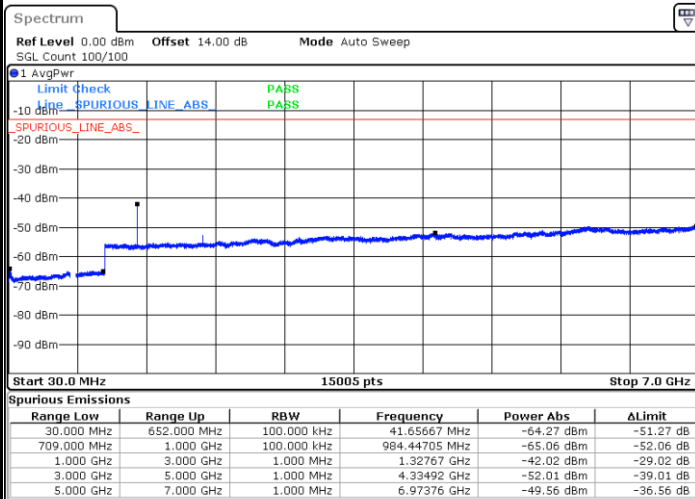
Highest Channel / 16QAM



Date: 1 JUN. 2021 11:06:44

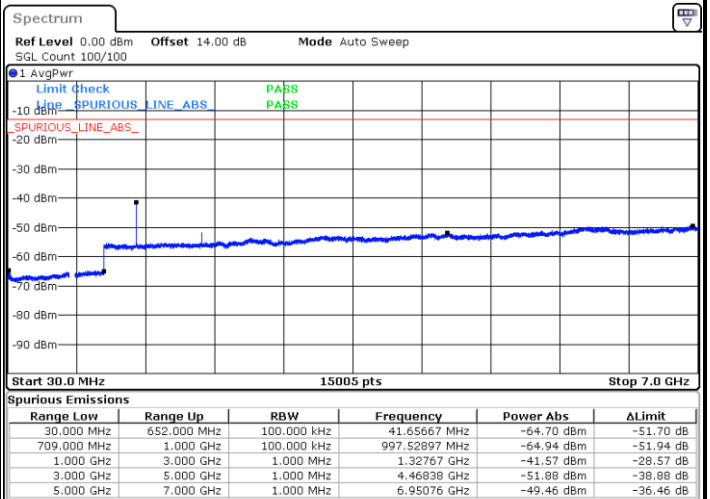
LTE Band 71 / 10MHz

Lowest Channel / QPSK



Date: 1 JUN. 2021 11:34:03

Lowest Channel / 16QAM



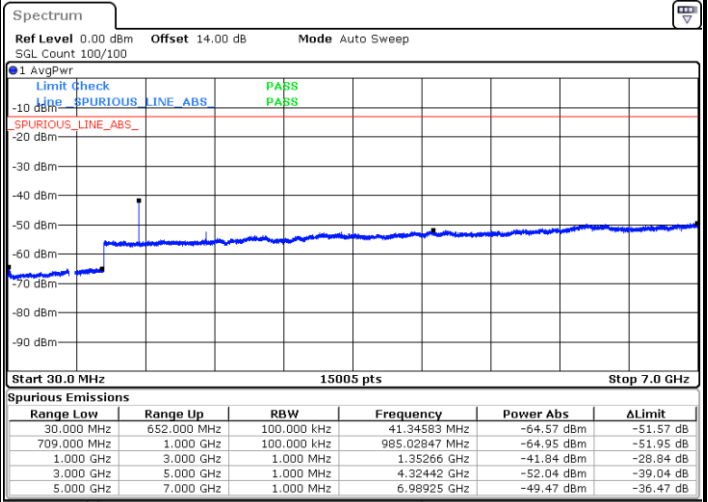
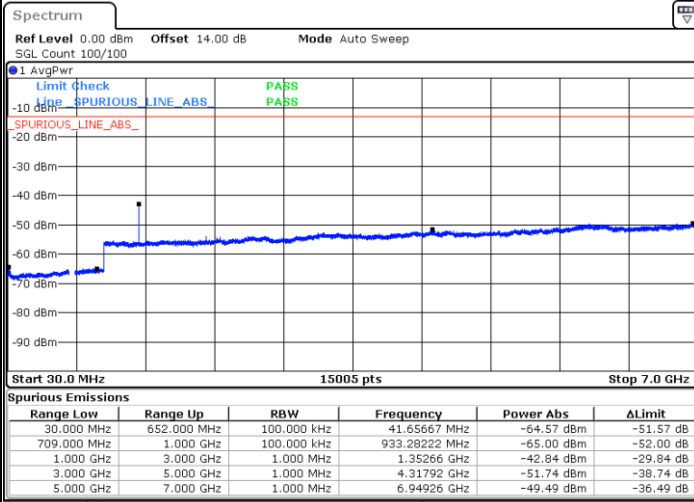
Date: 1 JUN. 2021 11:35:00



LTE Band 71 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

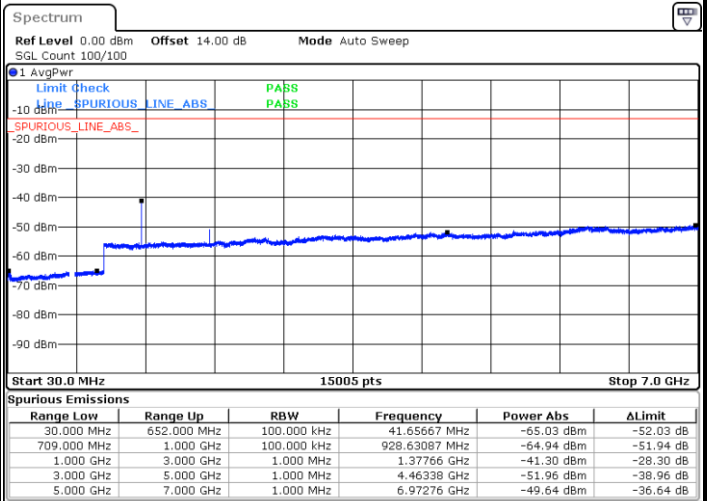
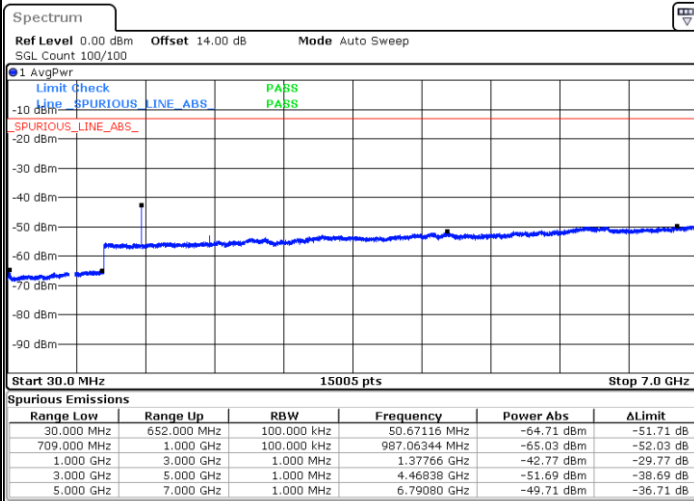


Date: 1.JUN.2021 11:37:34

Date: 1.JUN.2021 11:38:30

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.JUN.2021 11:47:16

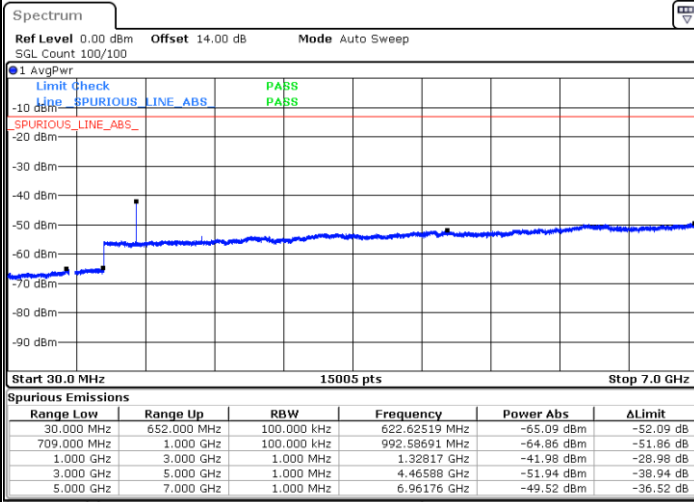
Date: 1.JUN.2021 11:48:13



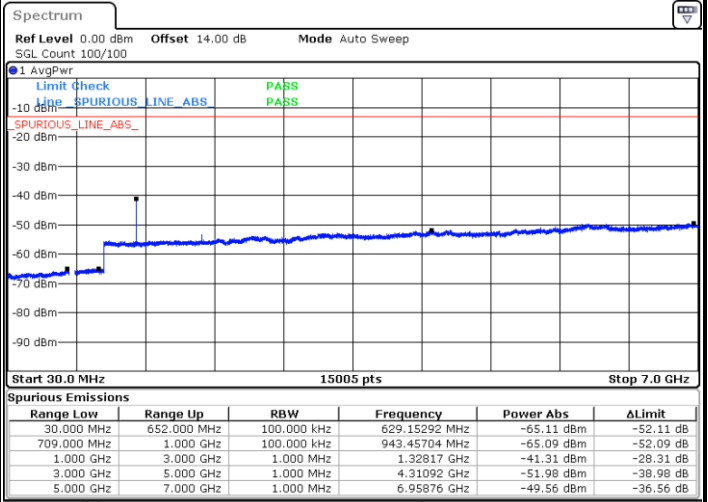
LTE Band 71 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



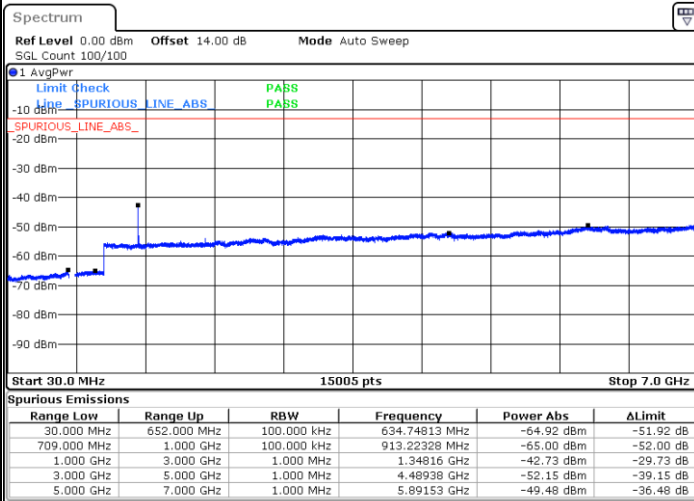
Date: 1.JUN.2021 12:08:36



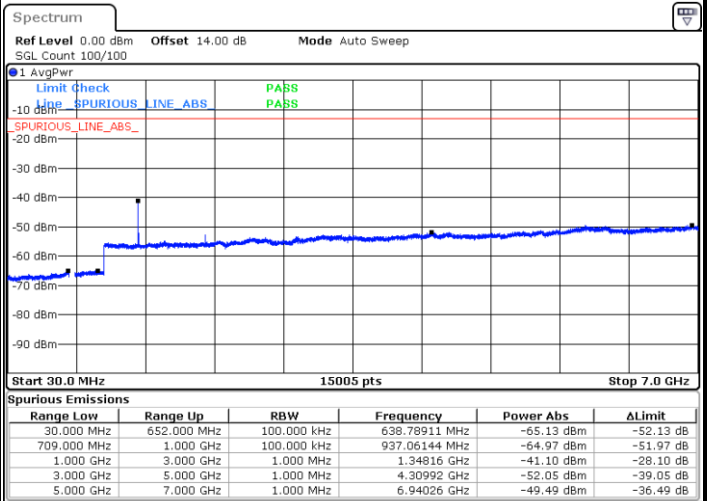
Date: 1.JUN.2021 12:09:33

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 1.JUN.2021 12:12:07

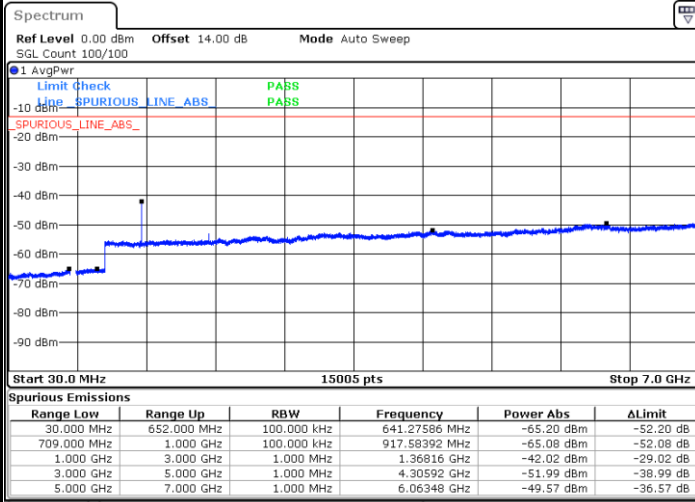


Date: 1.JUN.2021 12:13:03



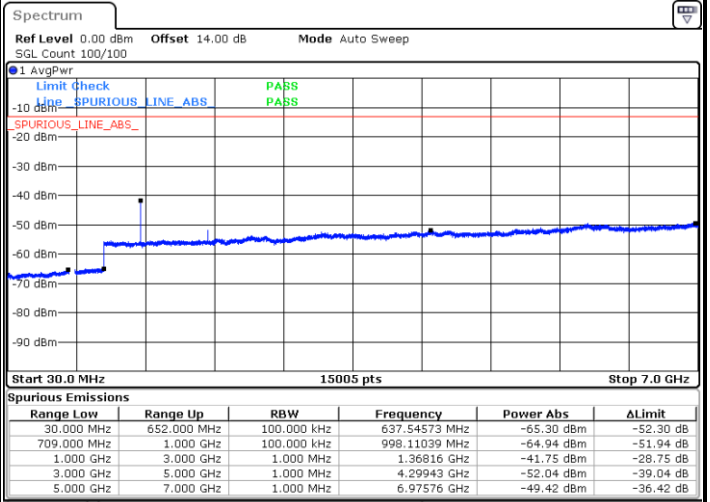
LTE Band71 / 15MHz

Highest Channel / QPSK



Date: 1 JUN.2021 12:21:49

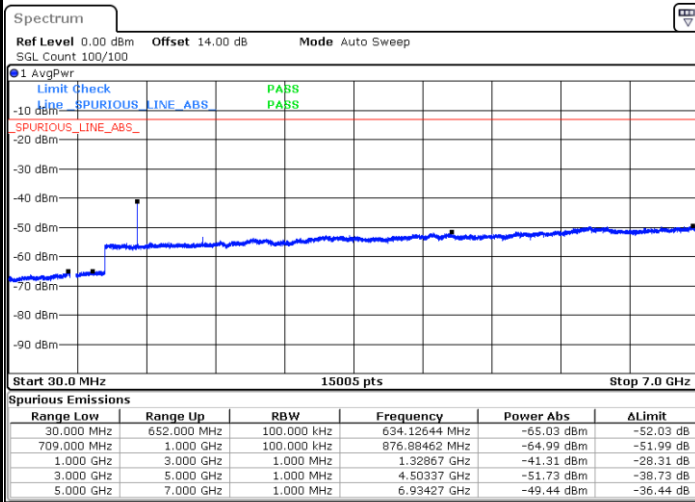
Highest Channel / 16QAM



Date: 1 JUN.2021 12:22:45

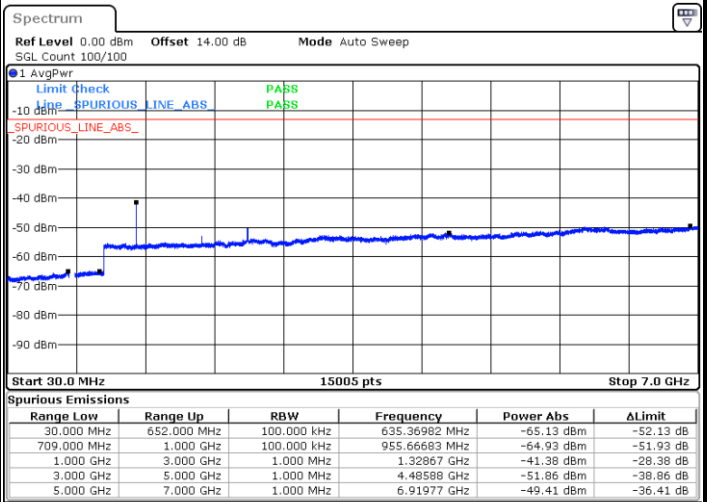
LTE Band 71 / 20MHz

Lowest Channel / QPSK



Date: 1 JUN.2021 12:43:09

Lowest Channel / 16QAM



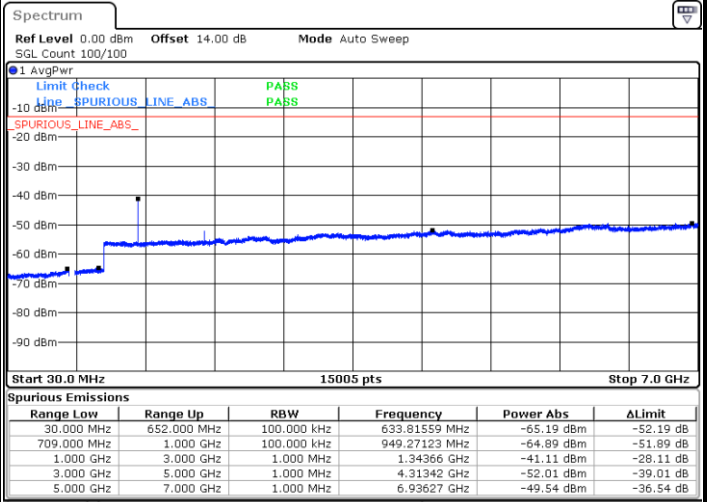
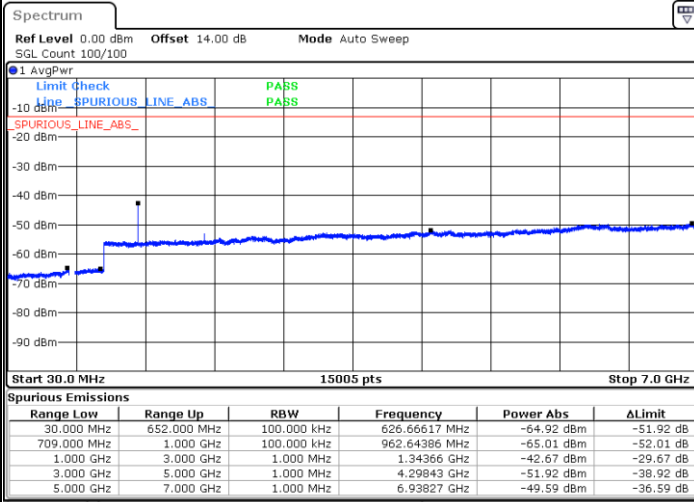
Date: 1 JUN.2021 12:44:05



LTE Band 71 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

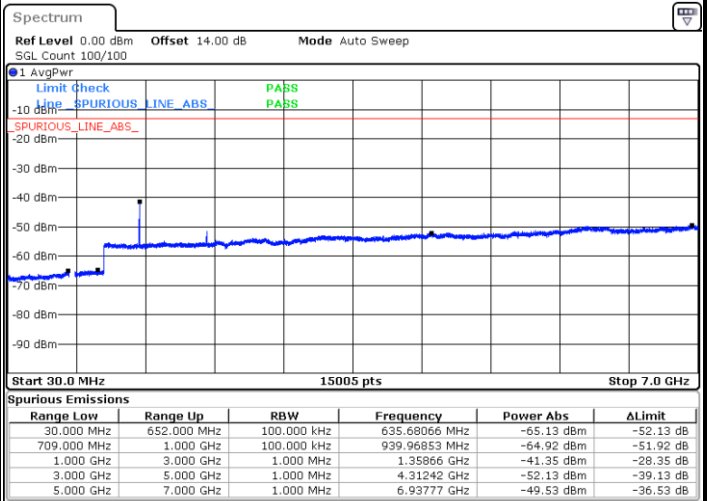
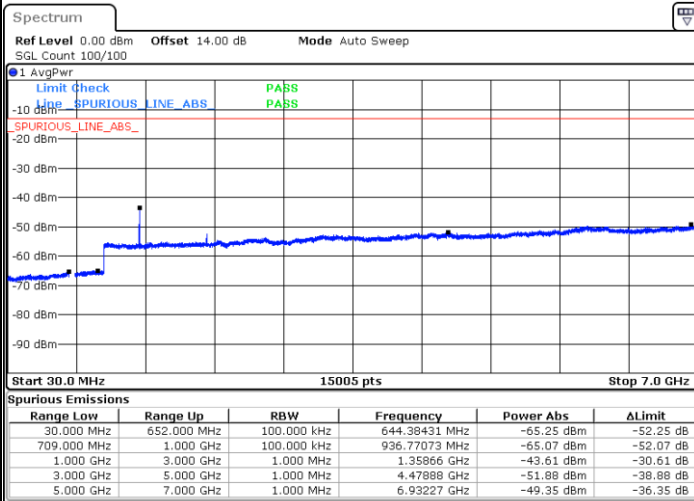


Date: 1.JUN.2021 12:46:39

Date: 1.JUN.2021 12:47:36

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.JUN.2021 12:56:21

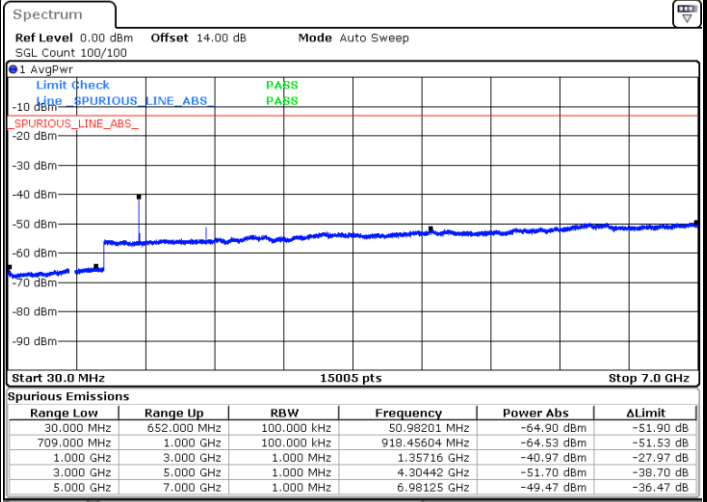
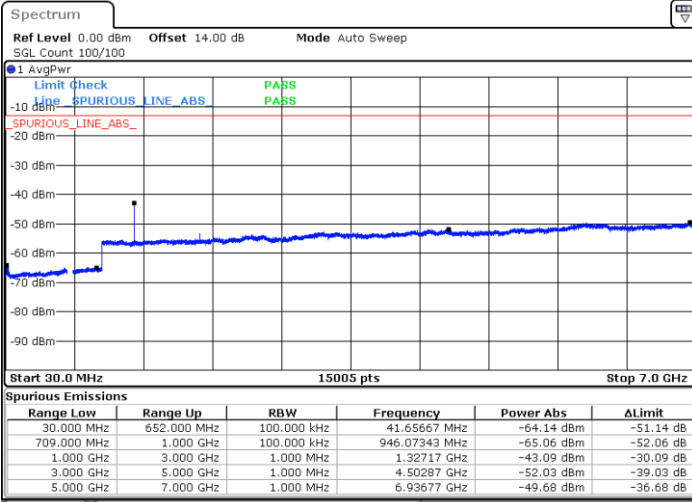
Date: 1.JUN.2021 12:57:17



LTE Band 71 / 5MHz

Lowest Channel / 64QAM

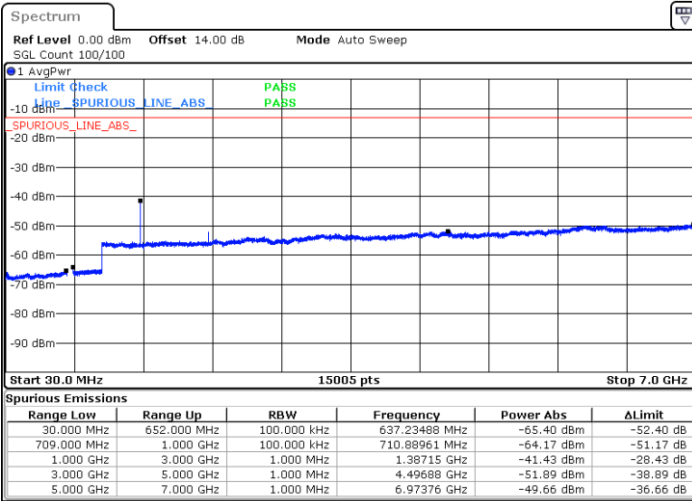
Middle Channel / 64QAM



Date: 1 JUN.2021 11:11:25

Date: 1 JUN.2021 11:13:01

Highest Channel / 64QAM

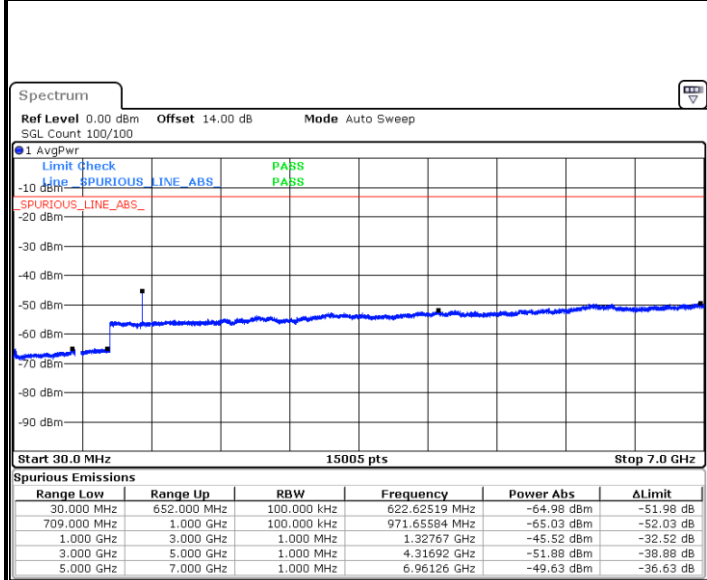


Date: 1 JUN.2021 11:17:42



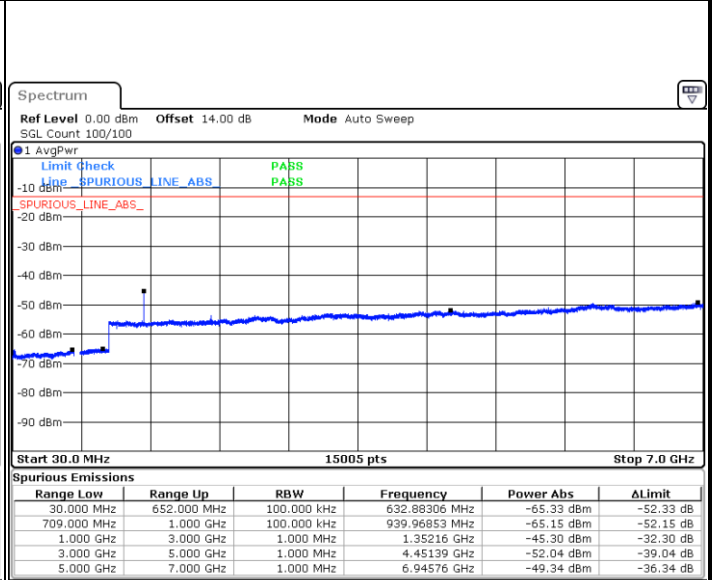
LTE Band 71 / 10MHz

Lowest Channel / 64QAM



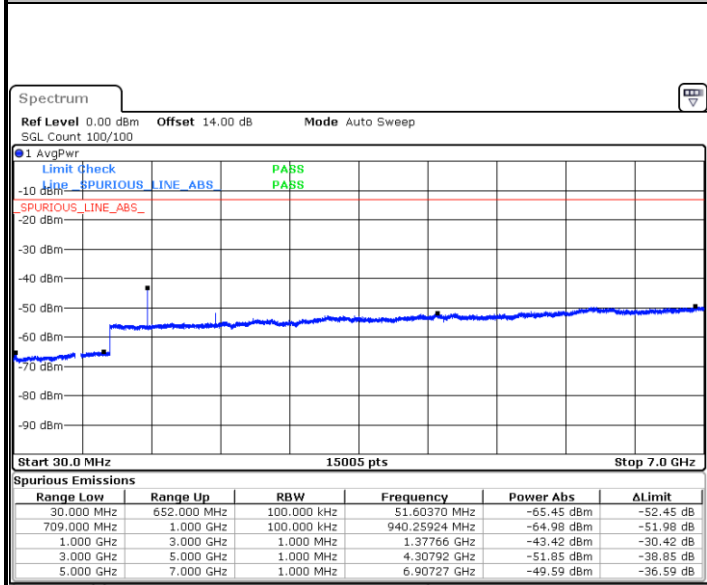
Date: 1.JUN.2021 11:52:54

Middle Channel / 64QAM



Date: 1.JUN.2021 11:54:31

Highest Channel / 64QAM



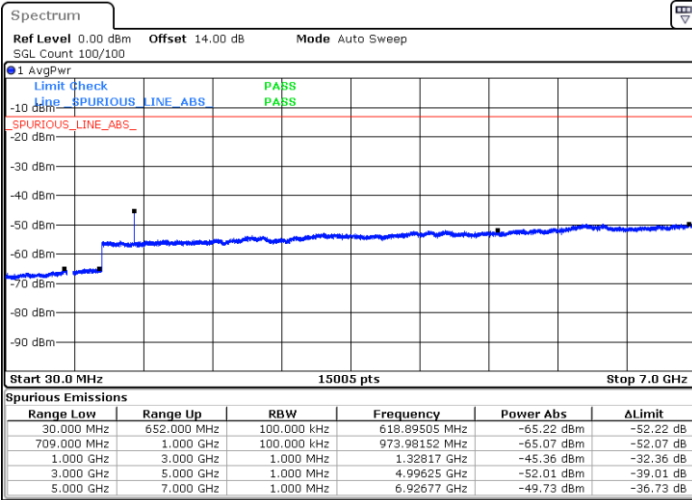
Date: 1.JUN.2021 11:59:13



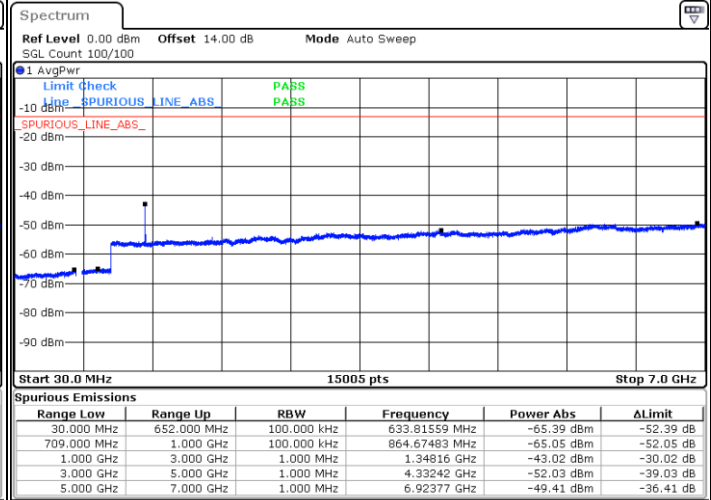
LTE Band 71 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

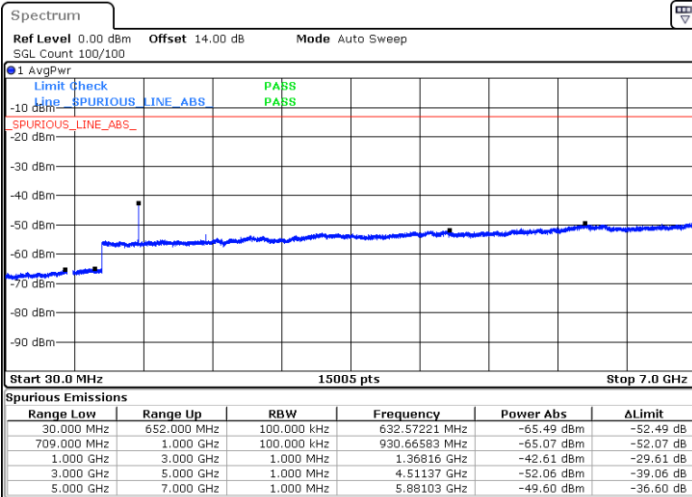


Date: 1.JUN.2021 12:27:27



Date: 1.JUN.2021 12:29:04

Highest Channel / 64QAM

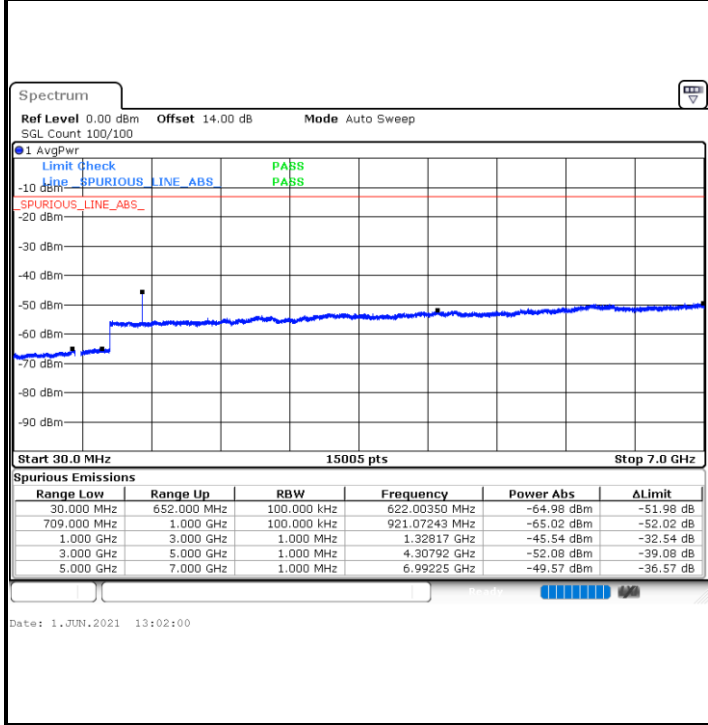


Date: 1.JUN.2021 12:33:46

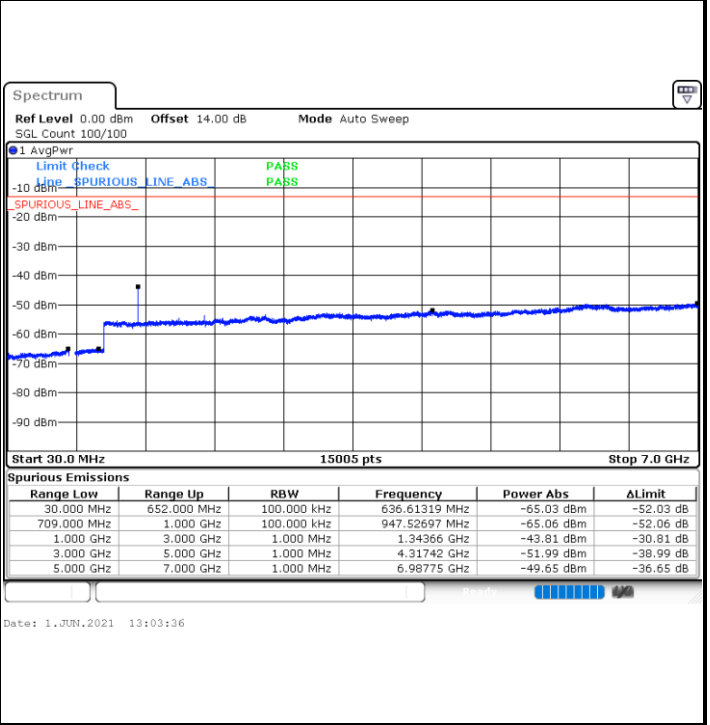


LTE Band 71 / 20MHz

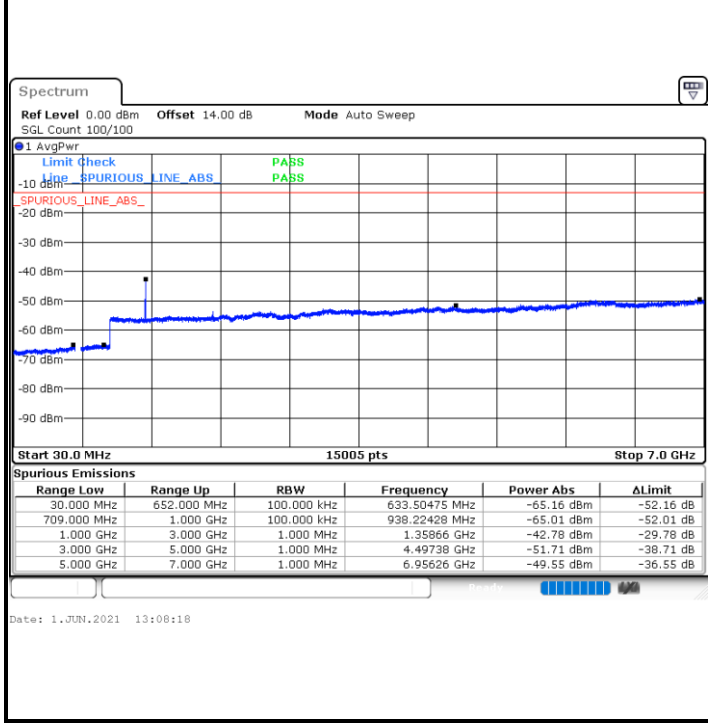
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM





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	0.0007	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0257	
0	Normal Voltage	0.0038	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0272	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0270	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 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

Main Antenna:

LTE Band 12 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1406	-67.73	-13	-54.73	-62.84	-70.98	4.00	9.40	H
	2109	-59.11	-13	-46.11	-56.82	-62.68	4.88	10.60	H
	2812	-62.86	-13	-49.86	-63.35	-67.79	5.52	12.60	H
	1406	-68.07	-13	-55.07	-63.06	-71.32	4.00	9.40	V
	2109	-63.64	-13	-50.64	-61.32	-67.21	4.88	10.60	V
	2812	-63.24	-13	-50.24	-63.47	-68.17	5.52	12.60	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-68.24	-42.15	-26.09	-63.02	-71.49	4.00	9.40	H
	2339.25	-65.17	-13	-52.17	-63.24	-68.74	4.88	10.60	H
	3119	-61.76	-13	-48.76	-63.52	-66.69	5.52	12.60	H
	1559.5	-68.48	-42.15	-26.33	-62.96	-71.73	4.00	9.40	V
	2339.25	-65.01	-13	-52.01	-63.57	-68.58	4.88	10.60	V
	3119	-61.86	-13	-48.86	-63.49	-66.79	5.52	12.60	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1555	-67.40	-13	-54.40	-62.19	-71.93	2.68	9.36	H
	2332.5	-64.31	-13	-51.31	-62.40	-70.31	2.36	10.51	H
	3110	-60.87	-13	-47.87	-62.59	-66.75	4.49	12.52	H
	1555	-67.23	-13	-54.23	-61.73	-71.76	2.68	9.36	V
	2332.5	-63.71	-13	-50.71	-62.27	-69.71	2.36	10.51	V
	3110	-61.10	-13	-48.10	-62.68	-66.98	4.49	12.52	V

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



LTE Band 25 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3747	-51.77	-13	-38.77	-55.63	-58.52	5.85	12.60	H
	5620.5	-54.52	-13	-41.52	-64.30	-60.32	7.30	13.10	H
	7494	-52.60	-13	-39.60	-66.81	-55.75	8.35	11.50	H
	3747	-54.69	-13	-41.69	-58.43	-61.44	5.85	12.60	V
	5620.5	-54.73	-13	-41.73	-64.33	-60.53	7.30	13.10	V
	7494	-51.96	-13	-38.96	-66.22	-55.11	8.35	11.50	V

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

LTE Band 26 / 15MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1659.5	-65.10	-13	-52.10	-74.12	-68.35	4.00	9.40	H
	2489.25	-61.45	-13	-48.45	-74.98	-65.02	4.88	10.60	H
	3319	-60.19	-13	-47.19	-77.11	-65.12	5.52	12.60	H
	1659.5	-64.64	-13	-51.64	-73.77	-67.89	4.00	9.40	V
	2489.25	-61.83	-13	-48.83	-75.43	-65.40	4.88	10.60	V
	3319	-60.14	-13	-47.14	-77.02	-65.07	5.52	12.60	V

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

LTE Band 66 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3472	-57.05	-13	-44.05	-59.34	-62.45	4.00	9.40	H
	5208	-52.68	-13	-39.68	-61.19	-58.40	4.88	10.60	H
	6944	-53.18	-13	-40.18	-66.36	-60.26	5.52	12.60	H
	3472	-56.37	-13	-43.37	-58.68	-61.77	4.00	9.40	V
	5208	-54.26	-13	-41.26	-62.58	-59.98	4.88	10.60	V
	6944	-53.07	-13	-40.07	-66.06	-60.15	5.52	12.60	V

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



LTE Band 71 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1348	-65.42	-13	-52.42	-74.01	-68.67	4.00	9.40	H
	2022	-64.43	-13	-51.43	-74.72	-68.00	4.88	10.60	H
	2696	-62.51	-13	-49.51	-75.76	-67.44	5.52	12.60	H
	1348	-65.73	-13	-52.73	-74.25	-68.98	4.00	9.40	V
	2022	-64.31	-13	-51.31	-74.72	-67.88	4.88	10.60	V
	2696	-62.64	-13	-49.64	-75.78	-67.57	5.52	12.60	V

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

ASDIV Antenna:

LTE Band 12 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1406	-66.48	-13	-53.48	-61.59	-69.73	4.00	9.40	H
	2109	-41.23	-13	-28.23	-38.94	-44.80	4.88	10.60	H
	2812	-62.71	-13	-49.71	-63.20	-67.64	5.52	12.60	H
	1406	-67.18	-13	-54.18	-62.17	-70.43	4.00	9.40	V
	2109	-42.57	-13	-29.57	-40.25	-46.14	4.88	10.60	V
	2812	-63.12	-13	-50.12	-63.35	-68.05	5.52	12.60	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-60.63	-42.15	-18.48	-55.41	-65.16	2.68	9.36	H
	2339.25	-40.17	-13	-27.17	-38.24	-46.17	2.36	10.51	H
	3119	-61.21	-13	-48.21	-62.97	-67.09	4.49	12.52	H
	1559.5	-58.02	-42.15	-15.87	-52.50	-62.55	2.68	9.36	V
	2339.25	-38.34	-13	-25.34	-36.90	-44.34	2.36	10.51	V
	3119	-61.50	-13	-48.50	-63.13	-67.38	4.49	12.52	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1555	-60.94	-13	-47.94	-55.73	-65.47	2.68	9.36	H
	2332.5	-42.86	-13	-29.86	-40.95	-48.86	2.36	10.51	H
	3110	-61.32	-13	-48.32	-63.04	-67.20	4.49	12.52	H
	1555	-59.77	-13	-46.77	-54.27	-64.30	2.68	9.36	V
	2332.5	-40.76	-13	-27.76	-39.32	-46.76	2.36	10.51	V
	3110	-61.35	-13	-48.35	-62.93	-67.23	4.49	12.52	V

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

LTE Band 25 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3747	-53.81	-13	-40.81	-57.67	-60.56	5.85	12.60	H
	5620.5	-55.06	-13	-42.06	-64.84	-60.86	7.30	13.10	H
	7494	-51.70	-13	-38.70	-65.91	-54.85	8.35	11.50	H
	3747	-58.04	-13	-45.04	-61.78	-64.79	5.85	12.60	V
	5620.5	-55.12	-13	-42.12	-64.72	-60.92	7.30	13.10	V
	7494	-51.81	-13	-38.81	-66.07	-54.96	8.35	11.50	V

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

LTE Band 26 / 15MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1659.5	-65.64	-13	-52.64	-74.66	-68.89	4.00	9.40	H
	2489.25	-61.60	-13	-48.60	-75.13	-65.17	4.88	10.60	H
	3319	-60.23	-13	-47.23	-77.15	-65.16	5.52	12.60	H
	1659.5	-65.48	-13	-52.48	-74.61	-68.73	4.00	9.40	V
	2489.25	-61.77	-13	-48.77	-75.37	-65.34	4.88	10.60	V
	3319	-60.21	-13	-47.21	-77.09	-65.14	5.52	12.60	V

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



LTE Band 66 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3472	-58.40	-13	-45.40	-60.69	-63.80	4.00	9.40	H
	5208	-56.43	-13	-43.43	-64.94	-62.15	4.88	10.60	H
	6944	-52.78	-13	-39.78	-65.96	-59.86	5.52	12.60	H
	3472	-60.21	-13	-47.21	-62.52	-65.61	4.00	9.40	V
	5208	-56.50	-13	-43.50	-64.82	-62.22	4.88	10.60	V
	6944	-52.82	-13	-39.82	-65.81	-59.90	5.52	12.60	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1348	-65.51	-13	-52.51	-74.10	-68.76	4.00	9.40	H
	2022	-60.40	-13	-47.40	-70.69	-63.97	4.88	10.60	H
	2696	-62.75	-13	-49.75	-76.00	-67.68	5.52	12.60	H
	1348	-65.50	-13	-52.50	-74.02	-68.75	4.00	9.40	V
	2022	-62.46	-13	-49.46	-72.87	-66.03	4.88	10.60	V
	2696	-62.84	-13	-49.84	-75.98	-67.77	5.52	12.60	V

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



Appendix D. Reference Report

Please refer to Sporton report number FG151701B which is issued separately.