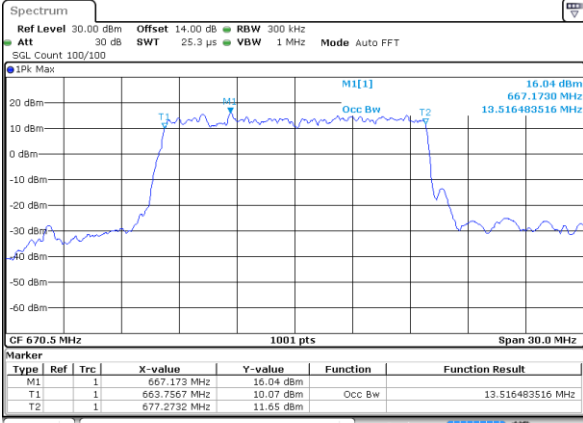




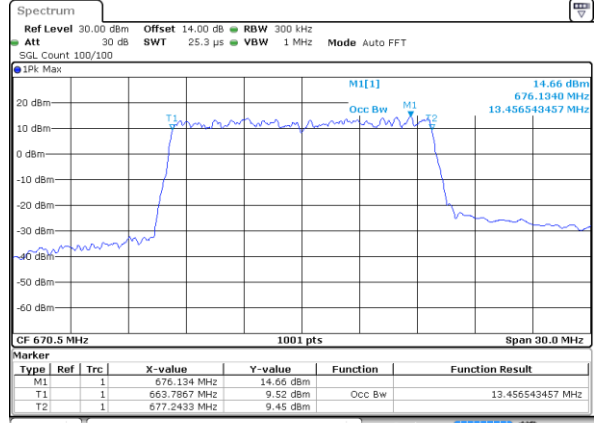
LTE Band 71

Lowest Channel / 15MHz / QPSK



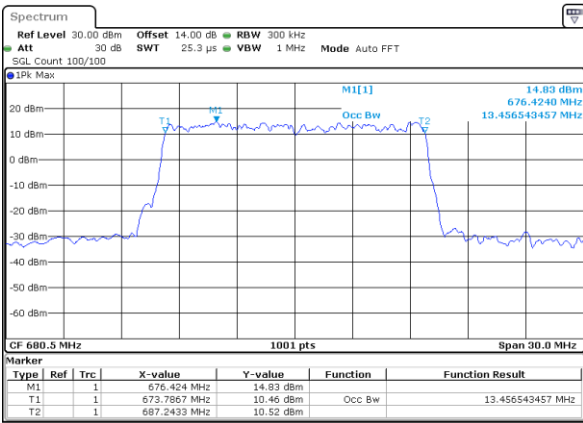
Date: 13.OCT.2021 18:50:01

Lowest Channel / 15MHz / 16QAM



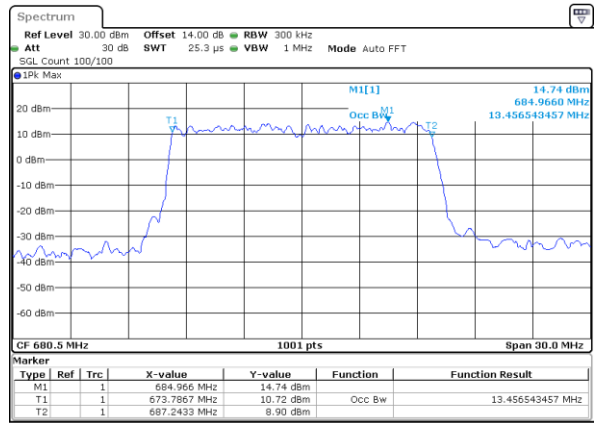
Date: 13.OCT.2021 18:50:26

Middle Channel / 15MHz / QPSK



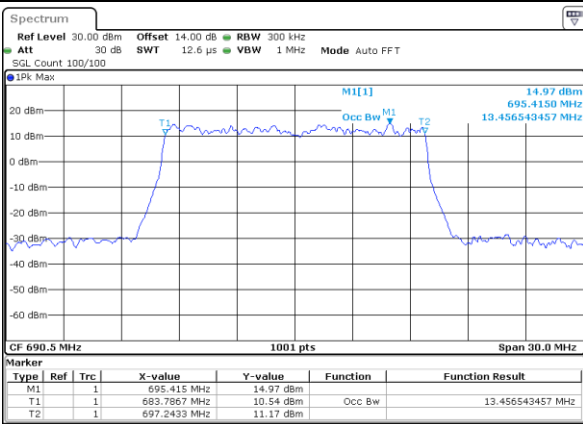
Date: 13.OCT.2021 18:57:19

Middle Channel / 15MHz / 16QAM



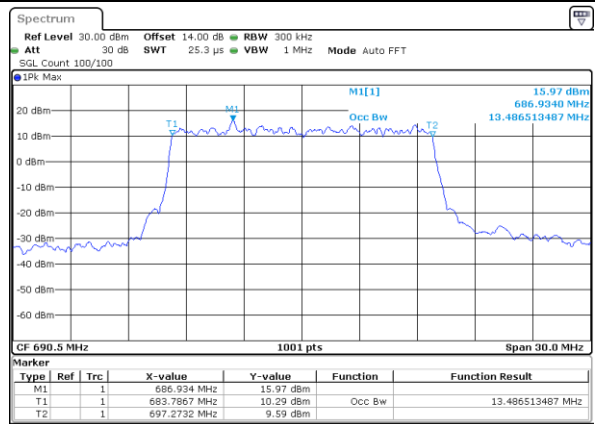
Date: 13.OCT.2021 18:57:43

Highest Channel / 15MHz / QPSK



Date: 14.OCT.2021 09:50:56

Highest Channel / 15MHz / 16QAM

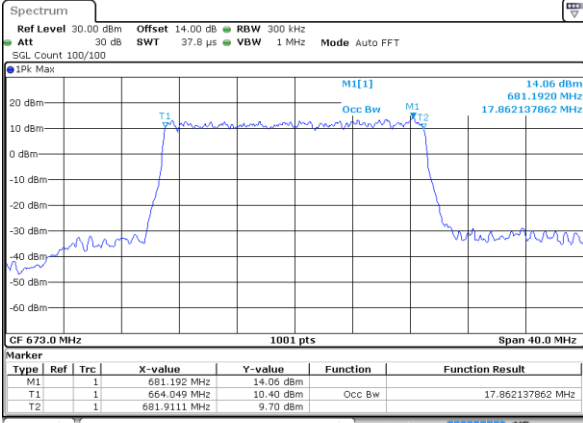


Date: 13.OCT.2021 19:01:24



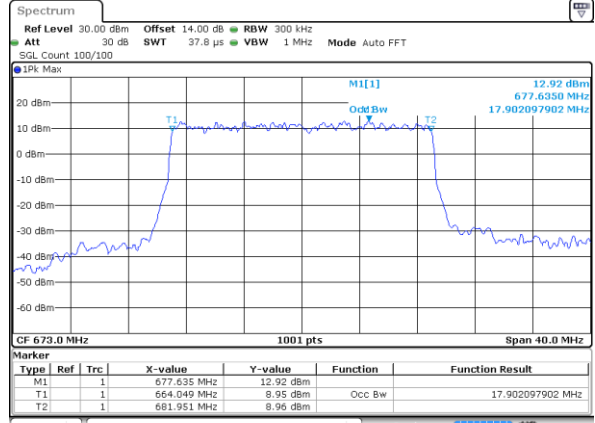
LTE Band 71

Lowest Channel / 20MHz / QPSK



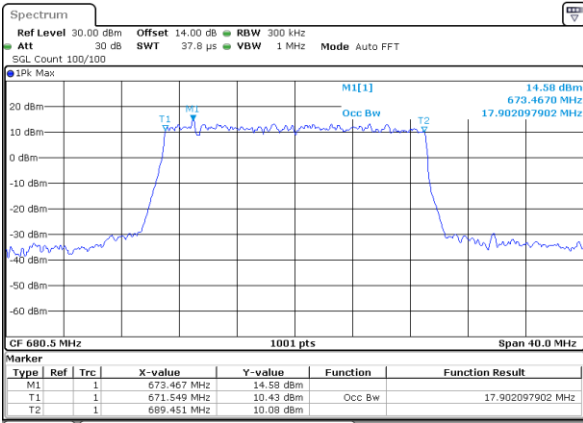
Date: 13.OCT.2021 19:16:58

Lowest Channel / 20MHz / 16QAM



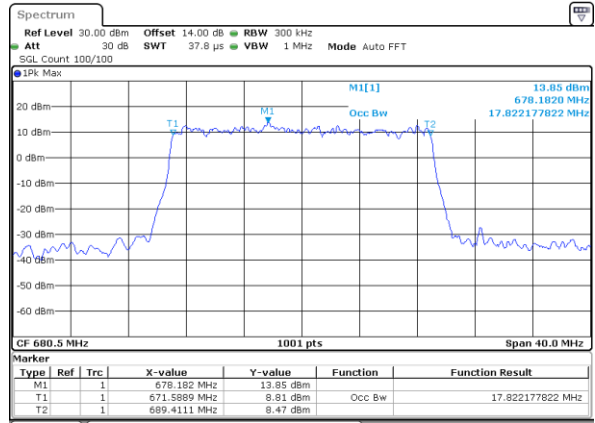
Date: 13.OCT.2021 19:17:23

Middle Channel / 20MHz / QPSK



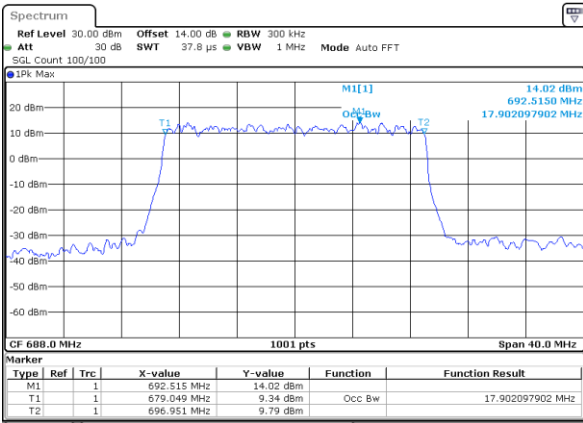
Date: 13.OCT.2021 19:24:16

Middle Channel / 20MHz / 16QAM



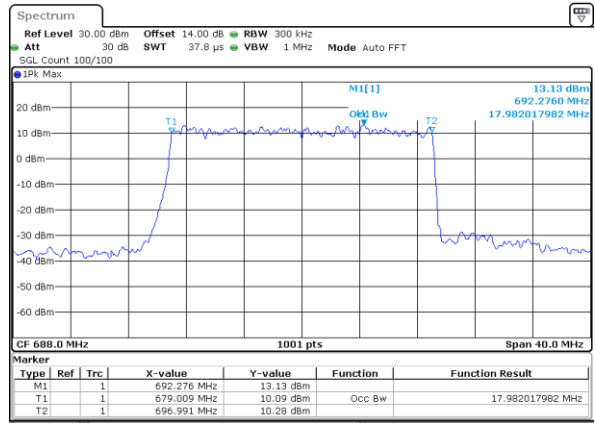
Date: 13.OCT.2021 19:24:40

Highest Channel / 20MHz / QPSK



Date: 13.OCT.2021 20:17:47

Highest Channel / 20MHz / 16QAM

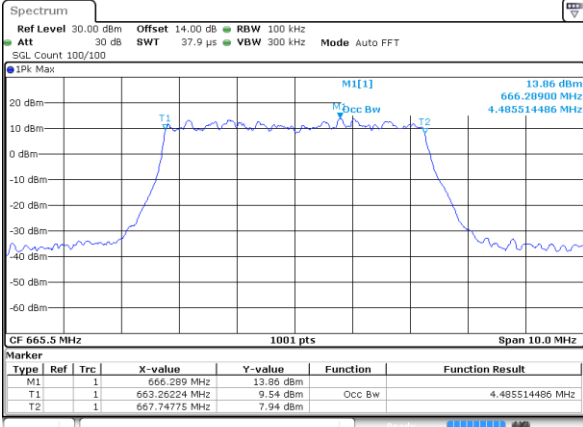


Date: 13.OCT.2021 20:18:12



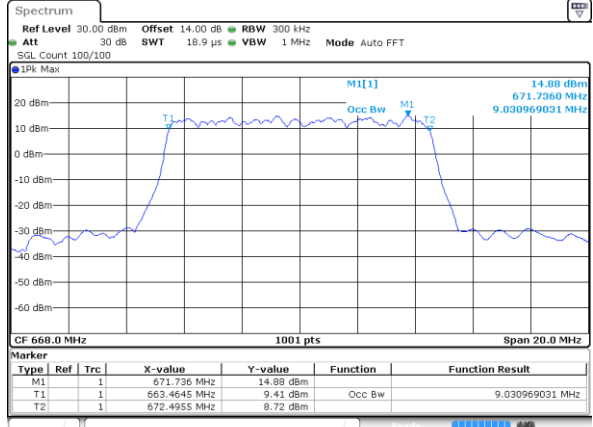
LTE Band 71

Lowest Channel / 5MHz / 64QAM



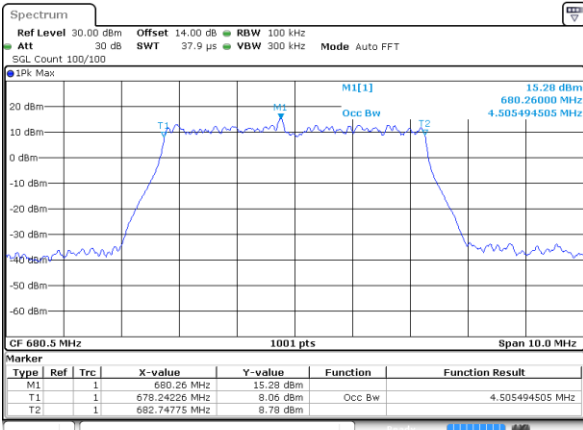
Date: 13.OCT.2021 18:14:21

Lowest Channel / 10MHz / 64QAM



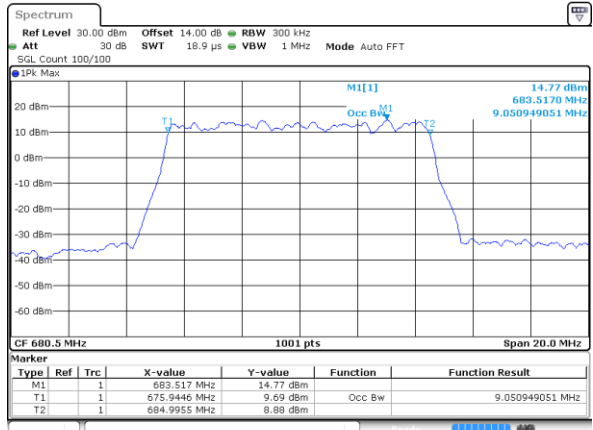
Date: 13.OCT.2021 18:41:22

Middle Channel / 5MHz / 64QAM



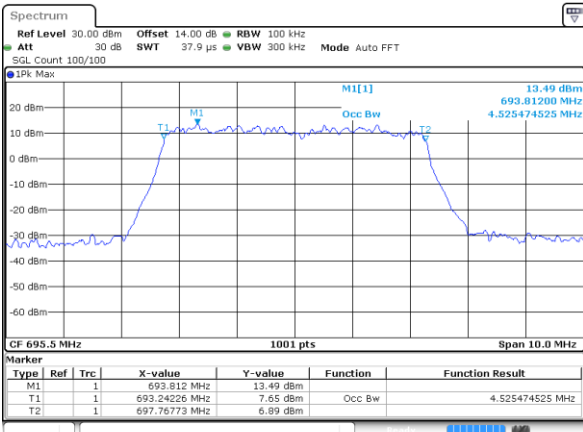
Date: 13.OCT.2021 18:17:52

Middle Channel / 10MHz / 64QAM



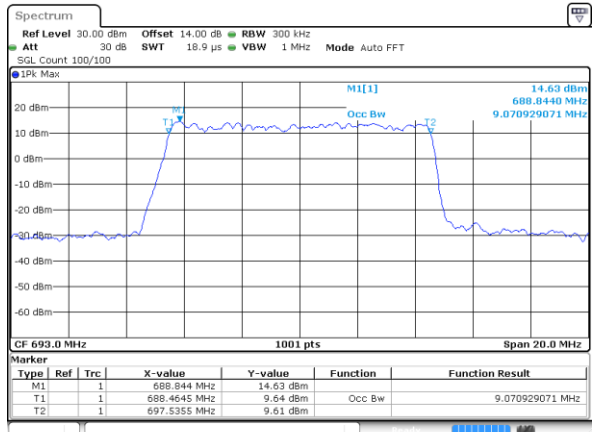
Date: 13.OCT.2021 18:44:51

Highest Channel / 5MHz / 64QAM



Date: 13.OCT.2021 18:19:33

Highest Channel / 10MHz / 64QAM

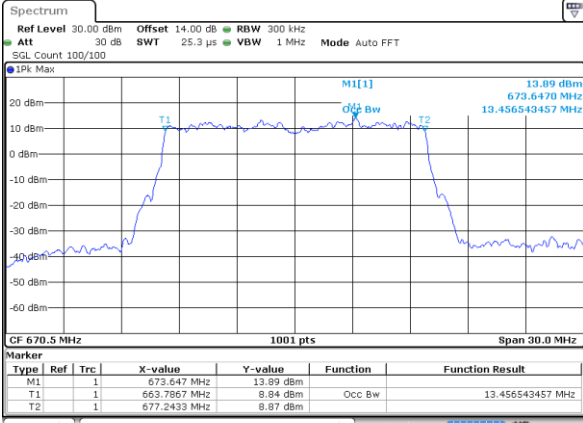


Date: 13.OCT.2021 18:46:32



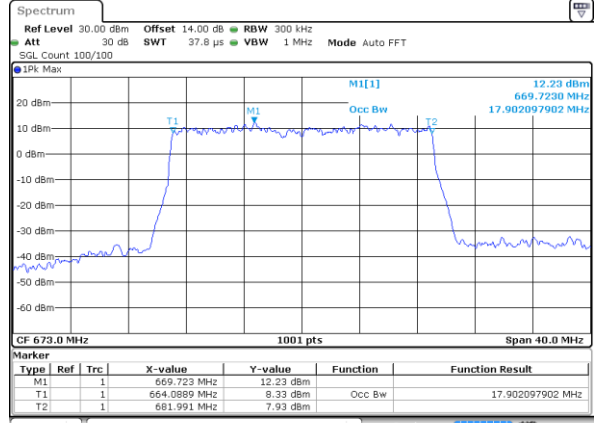
LTE Band 71

Lowest Channel / 15MHz / 64QAM



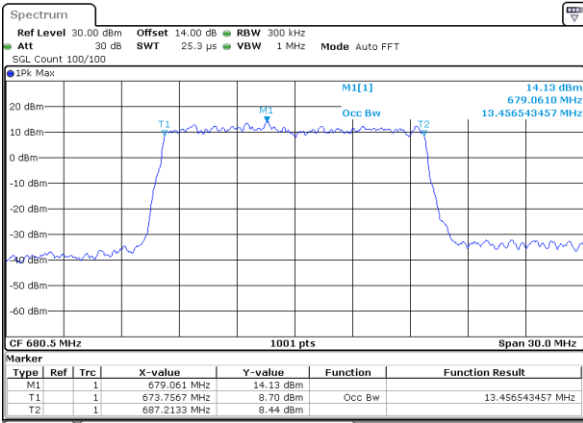
Date: 13.OCT.2021 19:08:19

Lowest Channel / 20MHz / 64QAM



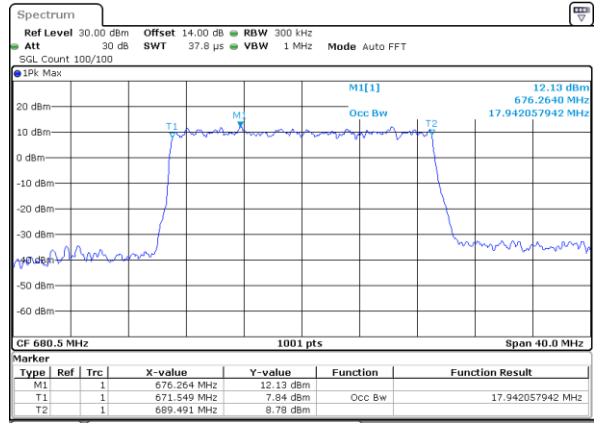
Date: 13.OCT.2021 20:25:06

Middle Channel / 15MHz / 64QAM



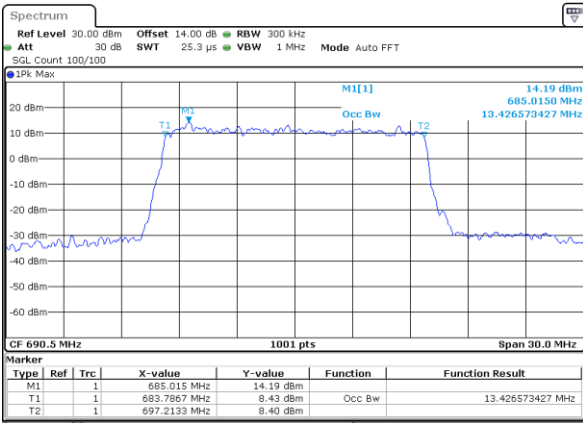
Date: 13.OCT.2021 19:11:48

Middle Channel / 20MHz / 64QAM



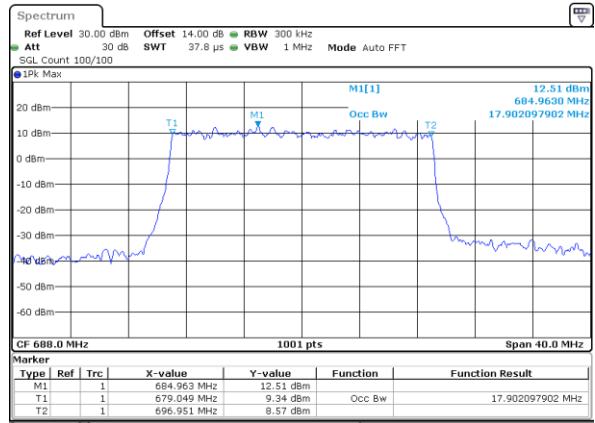
Date: 13.OCT.2021 20:28:35

Highest Channel / 15MHz / 64QAM



Date: 13.OCT.2021 19:13:29

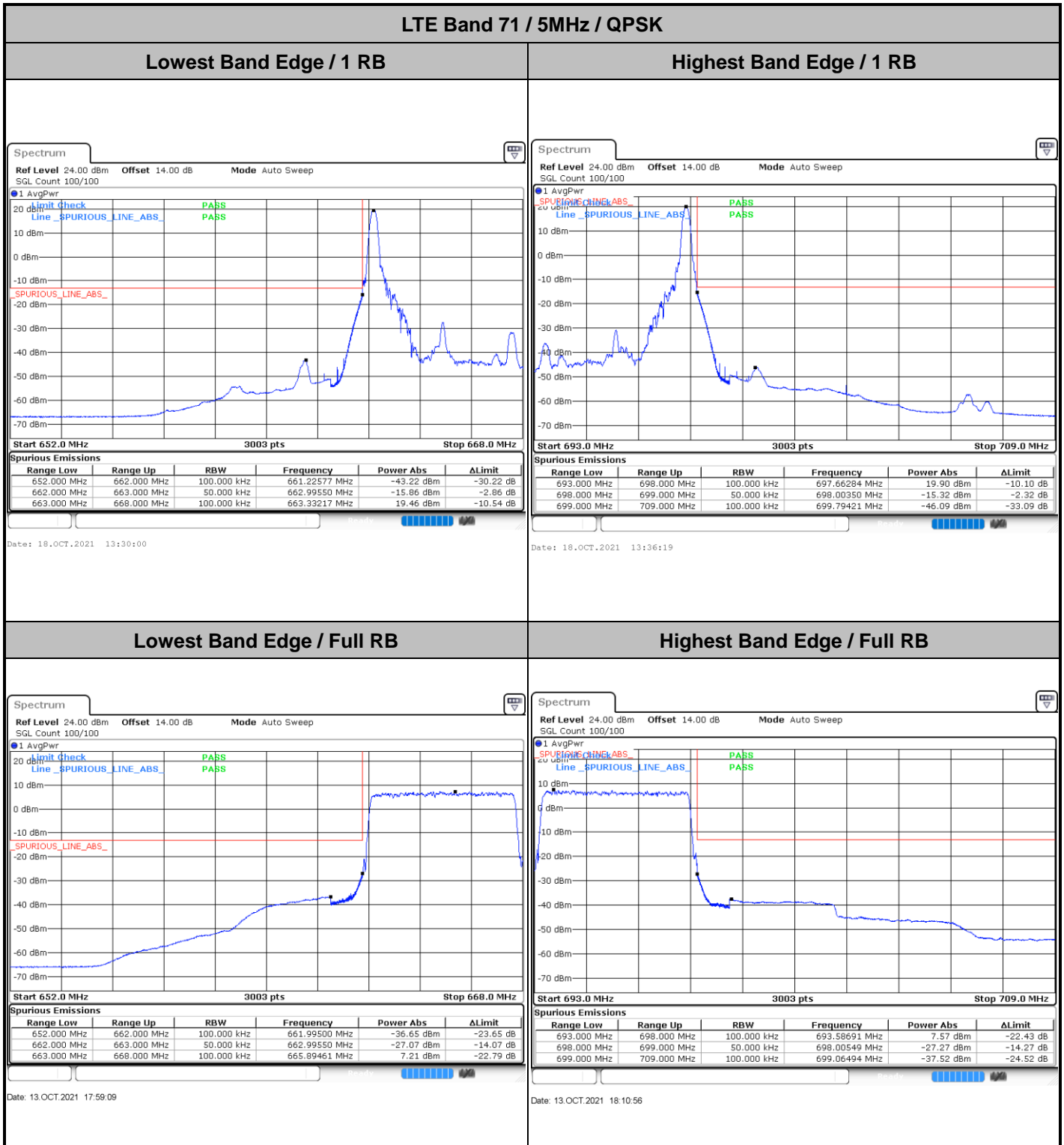
Highest Channel / 20MHz / 64QAM



Date: 13.OCT.2021 20:30:16



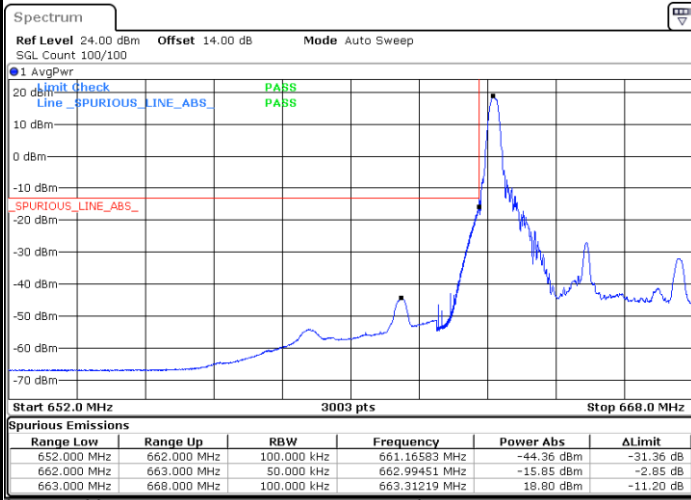
# Conducted Band Edge





LTE Band 71 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



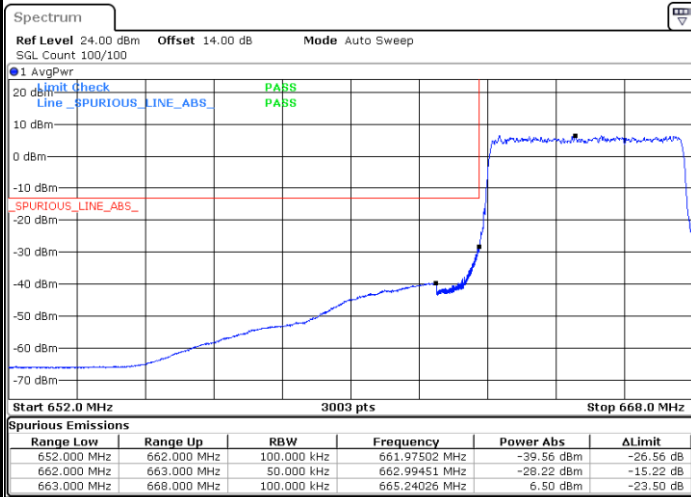
Date: 18.OCT.2021 13:32:44

Highest Band Edge / 1 RB



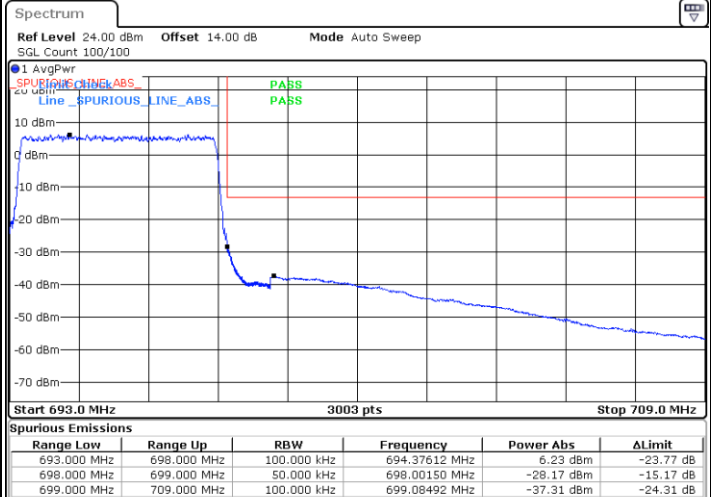
Date: 18.OCT.2021 13:35:05

Lowest Band Edge / Full RB



Date: 13.OCT.2021 18:00:03

Highest Band Edge / Full RB

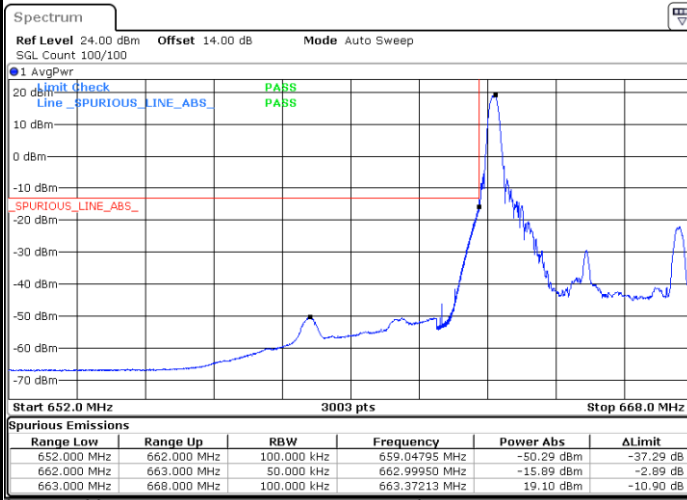


Date: 13.OCT.2021 18:11:51



LTE Band 71 / 5MHz / 64QAM

Lowest Band Edge / 1RB



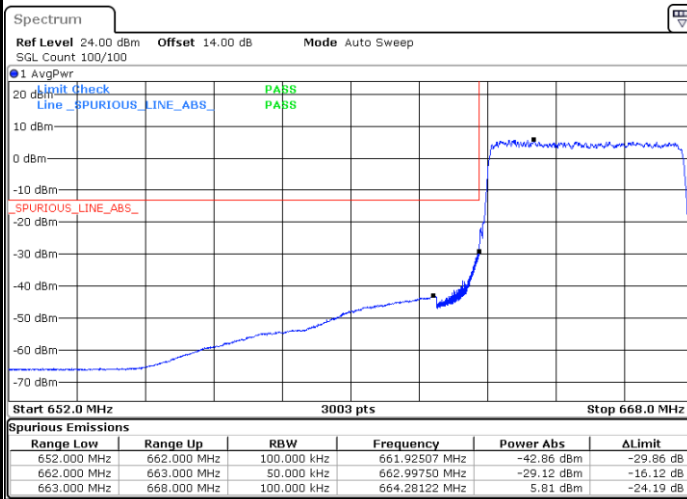
Date: 14.OCT.2021 10:50:43

Highest Band Edge / 1 RB



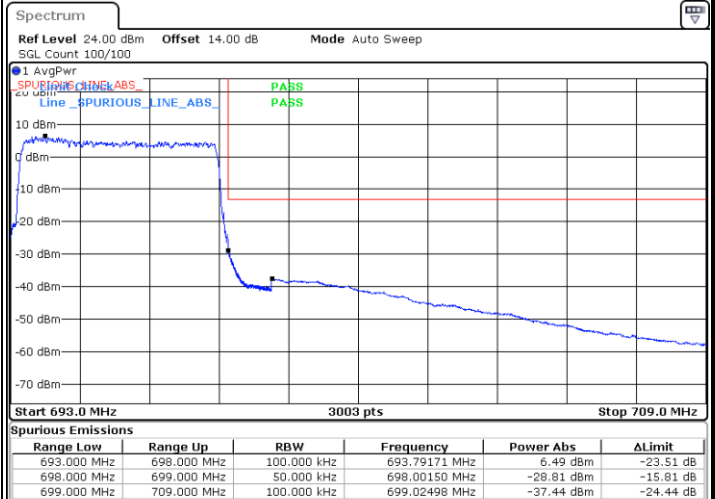
Date: 14.OCT.2021 10:52:02

Lowest Band Edge / Full RB



Date: 13.OCT.2021 18:16:25

Highest Band Edge / Full RB

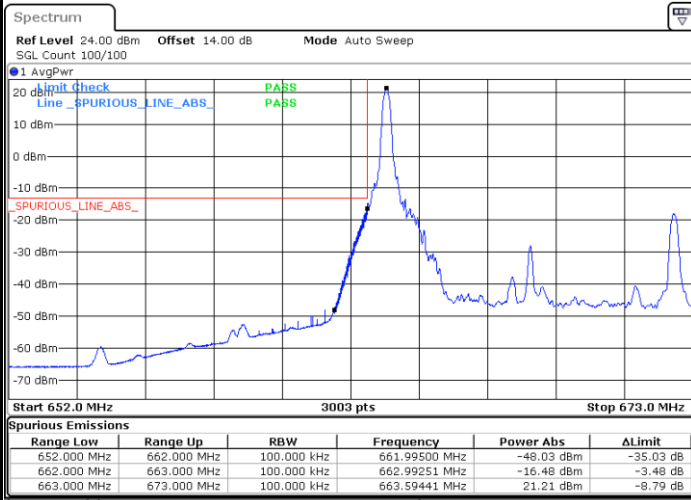


Date: 13.OCT.2021 18:21:39



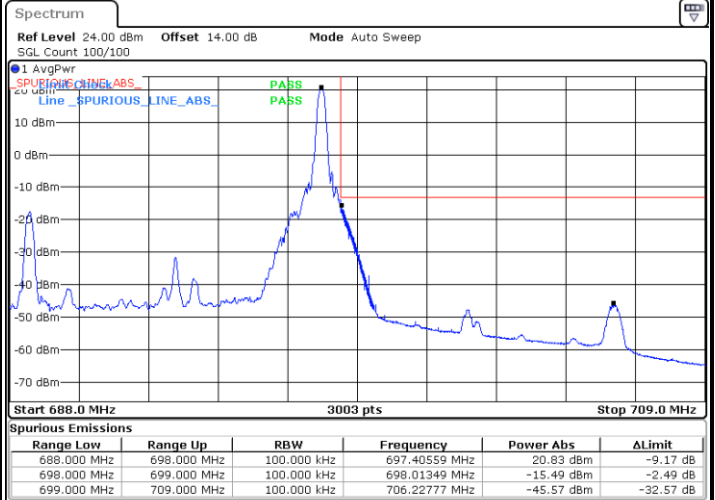
LTE Band 71 / 10MHz / QPSK

Lowest Band Edge / 1 RB



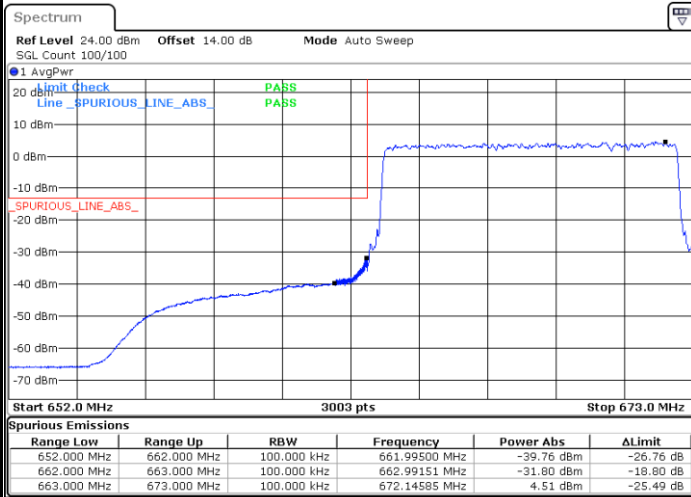
Date: 13.OCT.2021 18:25:14

Highest Band Edge / 1 RB



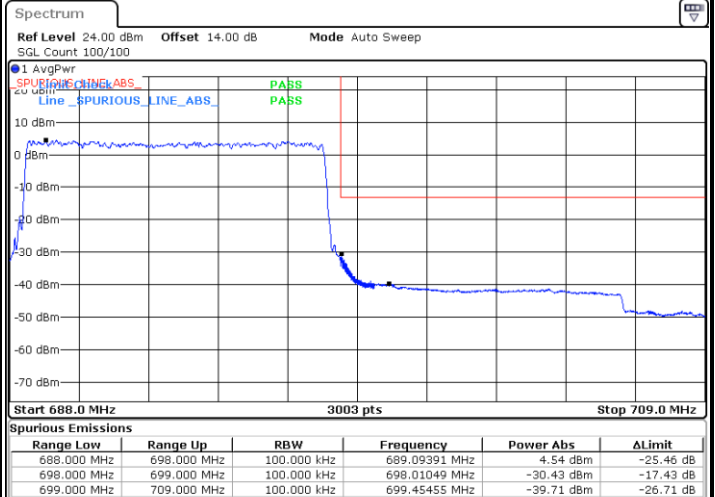
Date: 13.OCT.2021 18:36:11

Lowest Band Edge / Full RB



Date: 13.OCT.2021 18:27:01

Highest Band Edge / Full RB



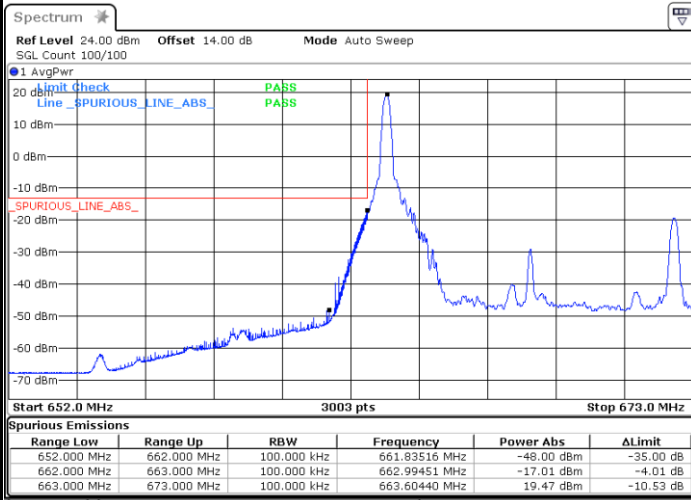
Date: 13.OCT.2021 18:37:58





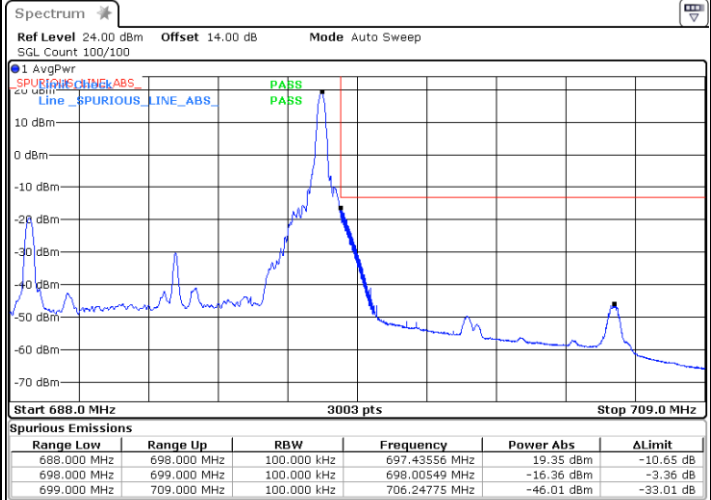
LTE Band 71 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



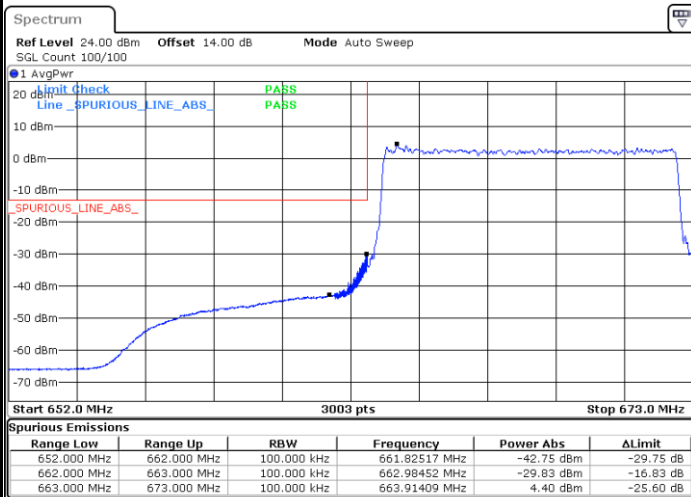
Date: 14.OCT.2021 09:56:47

Highest Band Edge / 1 RB



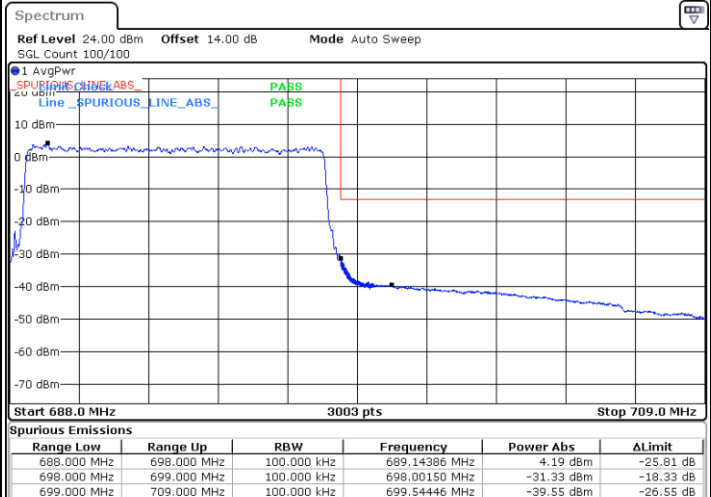
Date: 14.OCT.2021 09:20:24

Lowest Band Edge / Full RB



Date: 13.OCT.2021 18:27:54

Highest Band Edge / Full RB

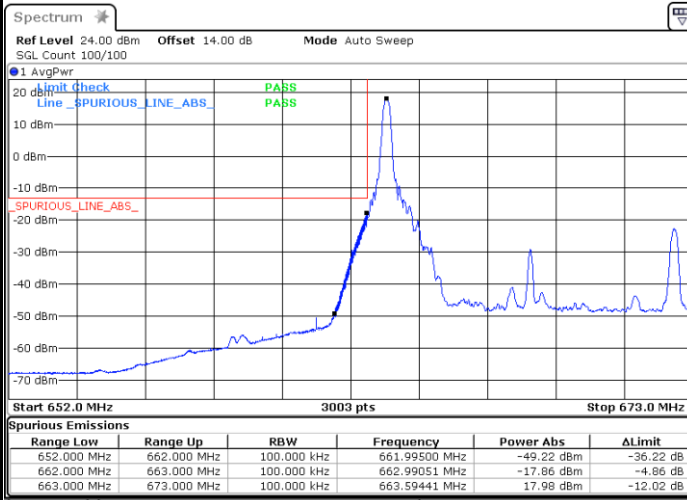


Date: 13.OCT.2021 18:38:52



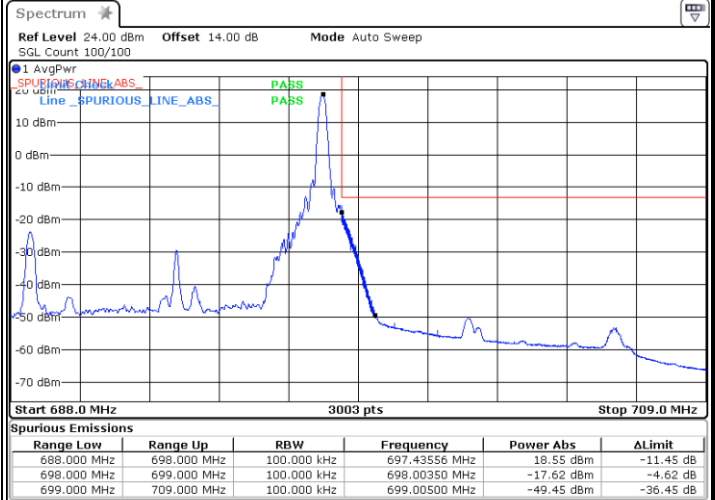
LTE Band 71 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



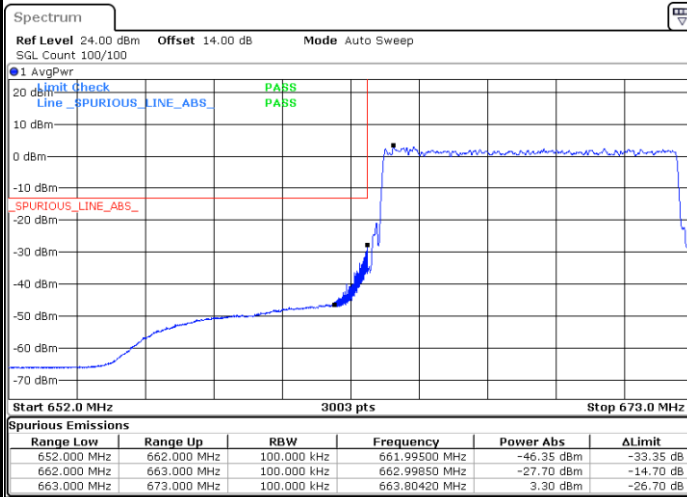
Date: 14.OCT.2021 09:17:20

Highest Band Edge / 1 RB



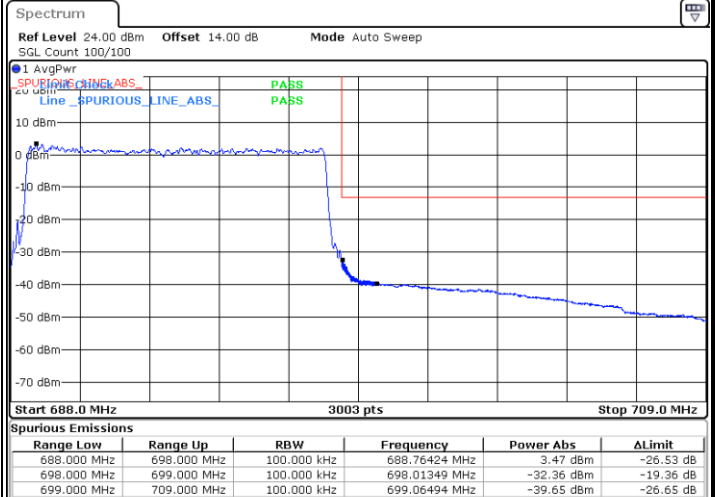
Date: 14.OCT.2021 09:21:48

Lowest Band Edge / Full RB



Date: 13.OCT.2021 18:43:24

Highest Band Edge / Full RB

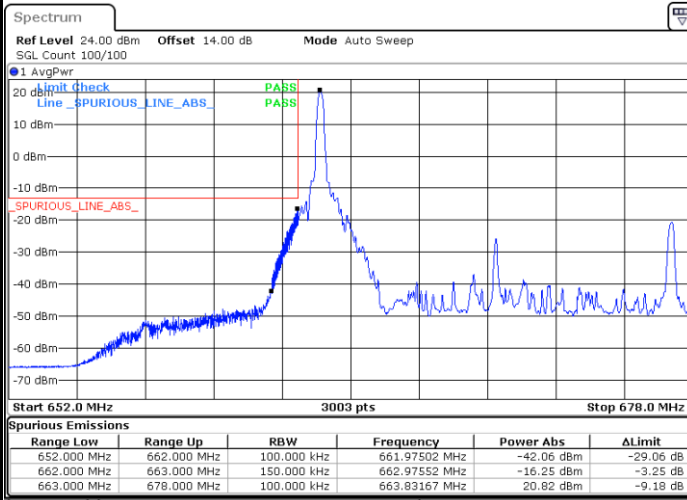


Date: 13.OCT.2021 18:48:34



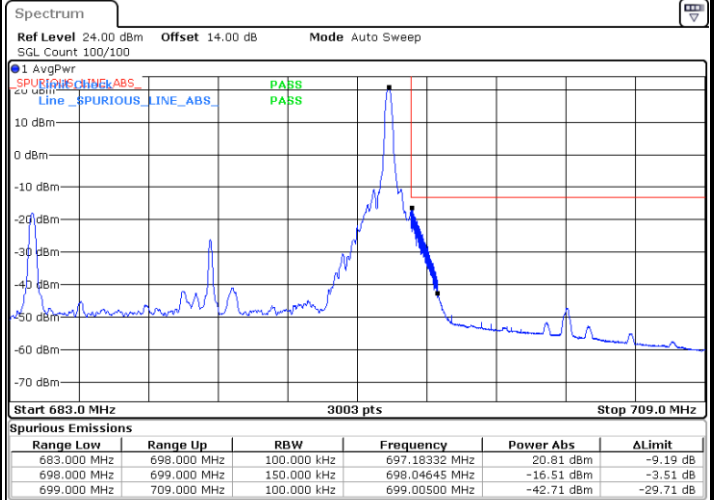
LTE Band 71 / 15MHz / QPSK

Lowest Band Edge / 1 RB



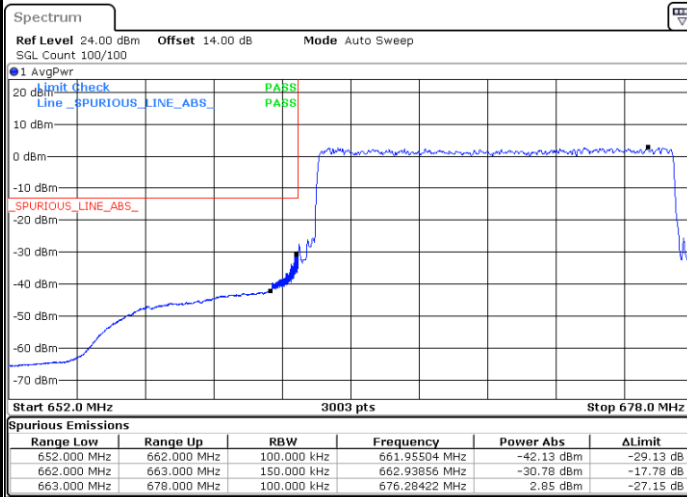
Date: 13.OCT.2021 18:52:09

Highest Band Edge / 1 RB



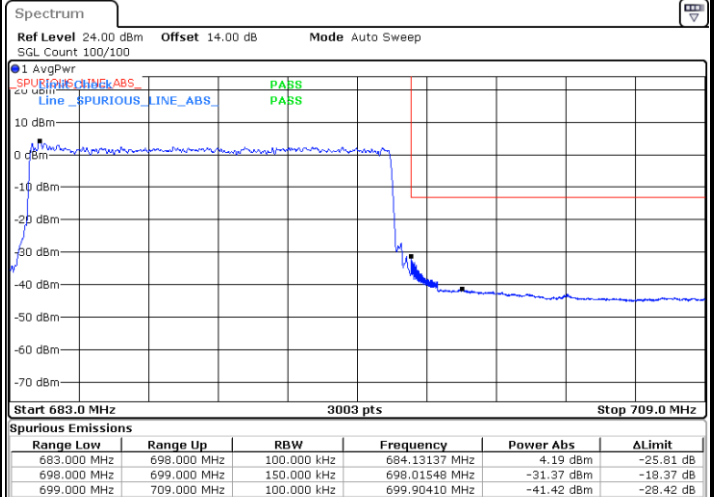
Date: 13.OCT.2021 19:03:08

Lowest Band Edge / Full RB



Date: 13.OCT.2021 18:53:57

Highest Band Edge / Full RB

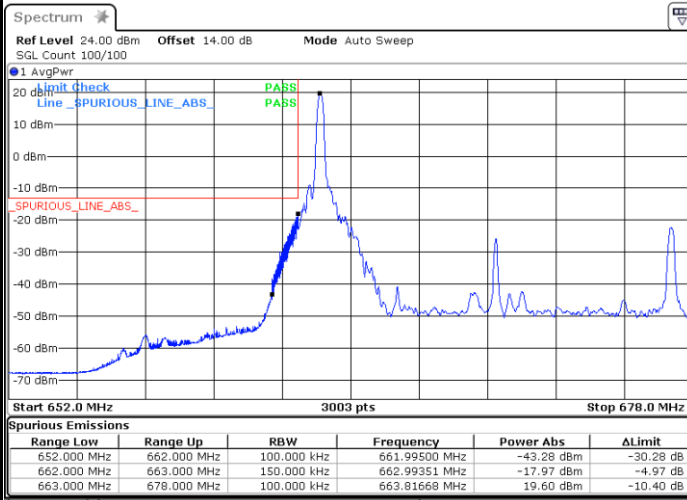


Date: 13.OCT.2021 19:04:55



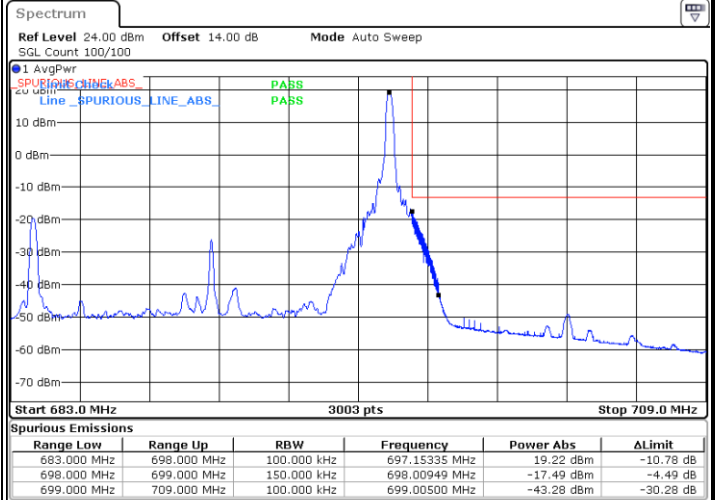
LTE Band 71 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



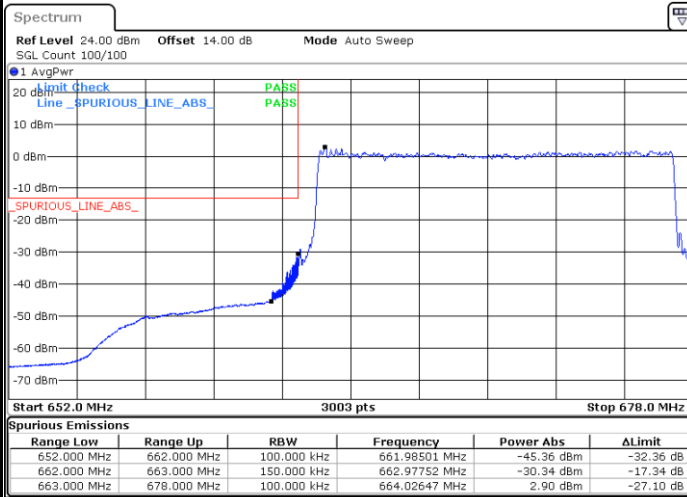
Date: 14.OCT.2021 09:45:55

Highest Band Edge / 1 RB



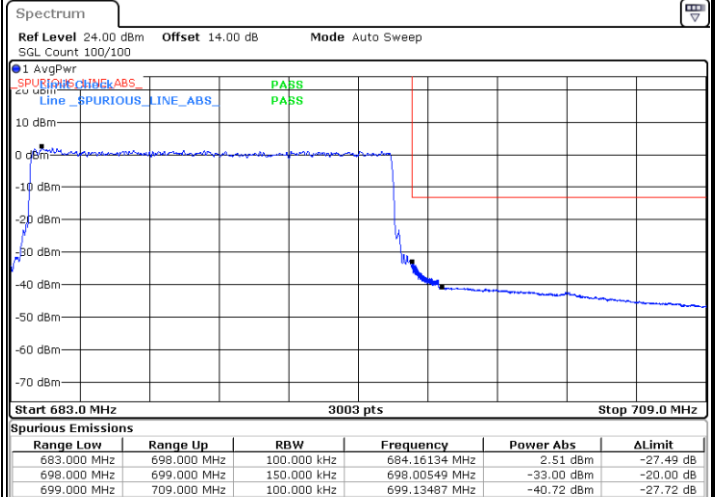
Date: 14.OCT.2021 09:49:50

Lowest Band Edge / Full RB



Date: 13.OCT.2021 18:54:50

Highest Band Edge / Full RB

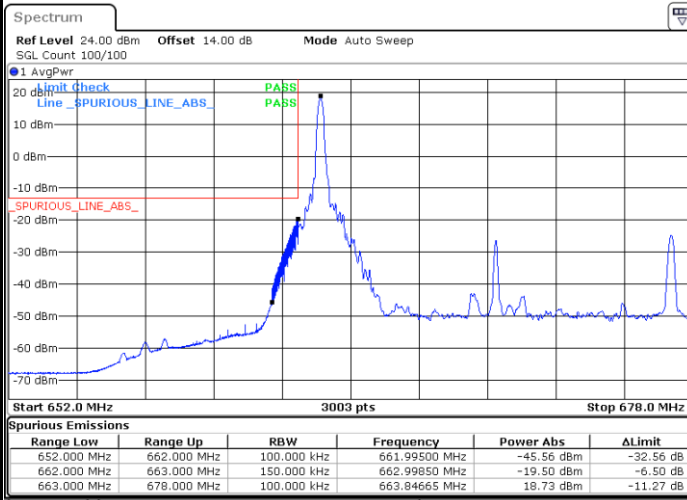


Date: 13.OCT.2021 19:05:49



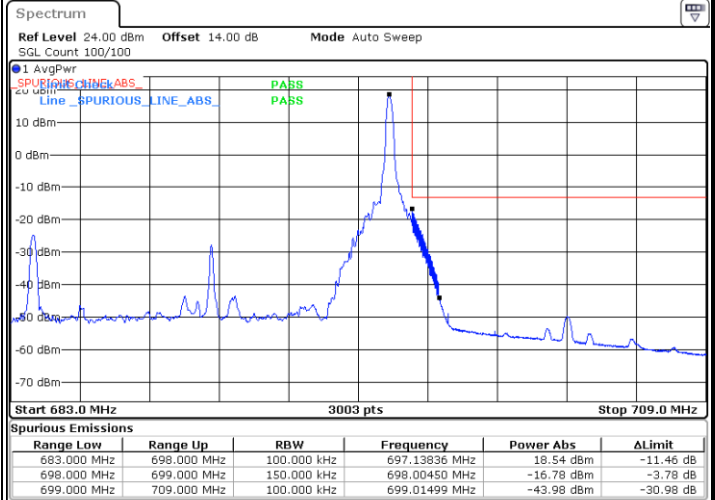
LTE Band 71 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



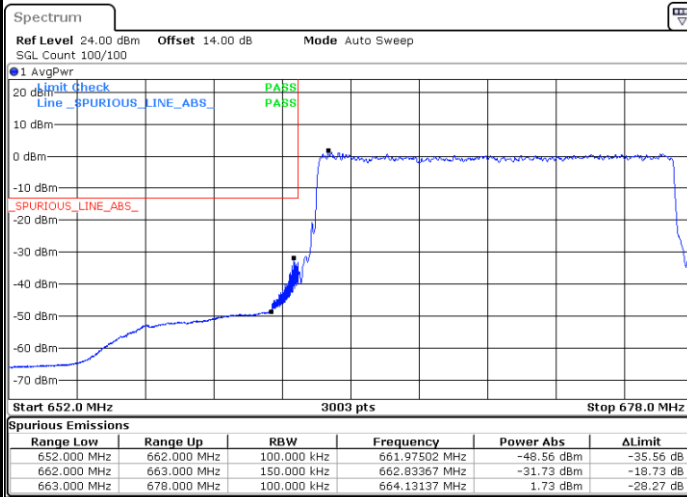
Date: 14.OCT.2021 09:47:22

Highest Band Edge / 1 RB



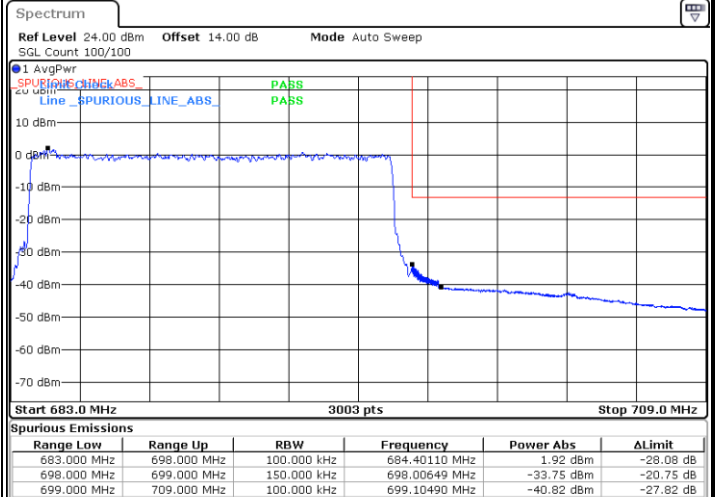
Date: 14.OCT.2021 09:48:50

Lowest Band Edge / Full RB



Date: 13.OCT.2021 19:10:21

Highest Band Edge / Full RB

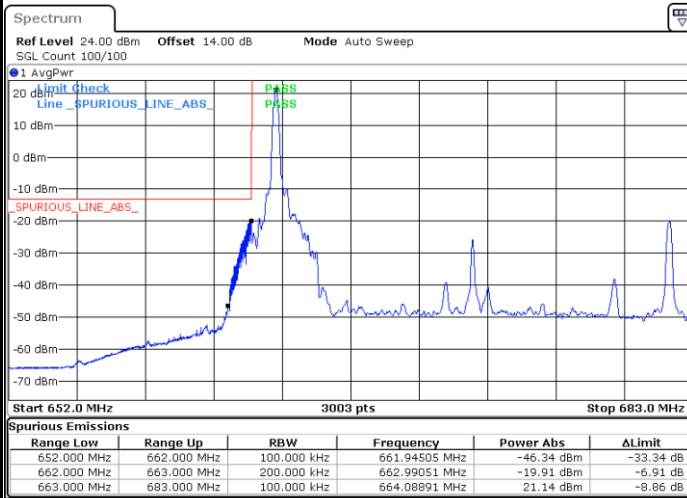


Date: 13.OCT.2021 19:15:31



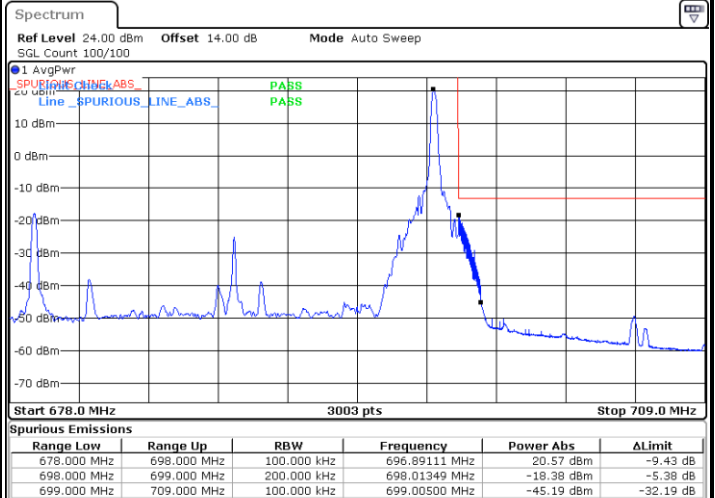
LTE Band 71 / 20MHz / QPSK

Lowest Band Edge / 1 RB



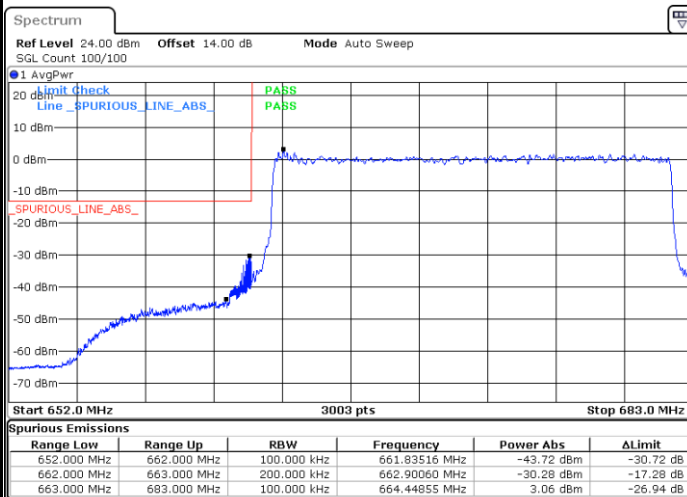
Date: 13.OCT.2021 19:19:05

Highest Band Edge / 1 RB



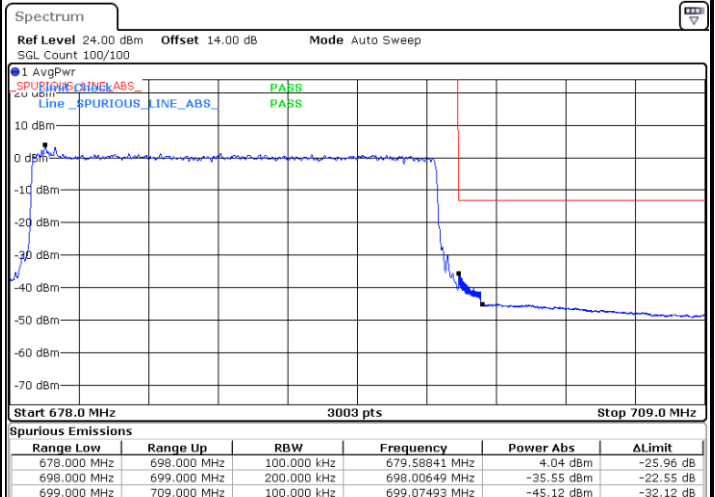
Date: 13.OCT.2021 20:19:55

Lowest Band Edge / Full RB



Date: 13.OCT.2021 19:20:53

Highest Band Edge / Full RB

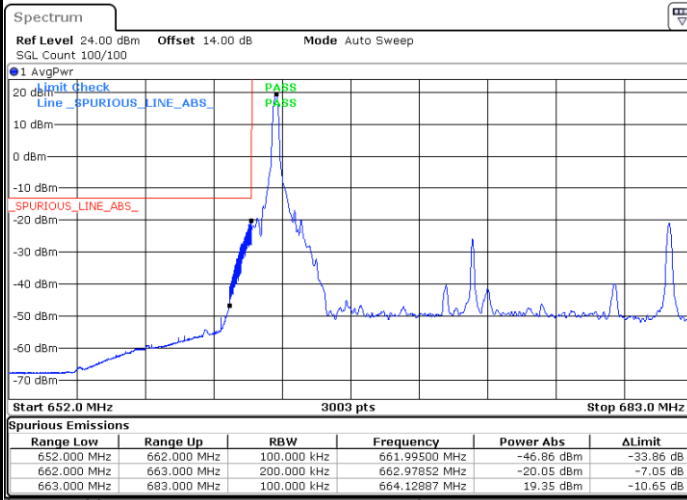


Date: 13.OCT.2021 20:22:36



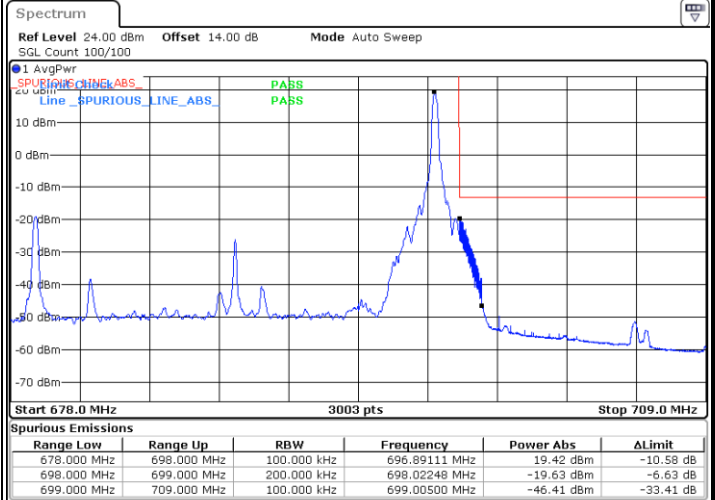
LTE Band 71 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



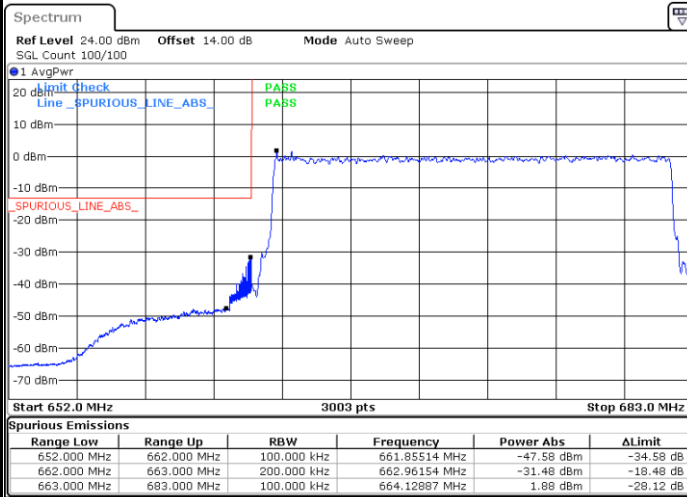
Date: 14.OCT.2021 09:54:51

Highest Band Edge / 1RB



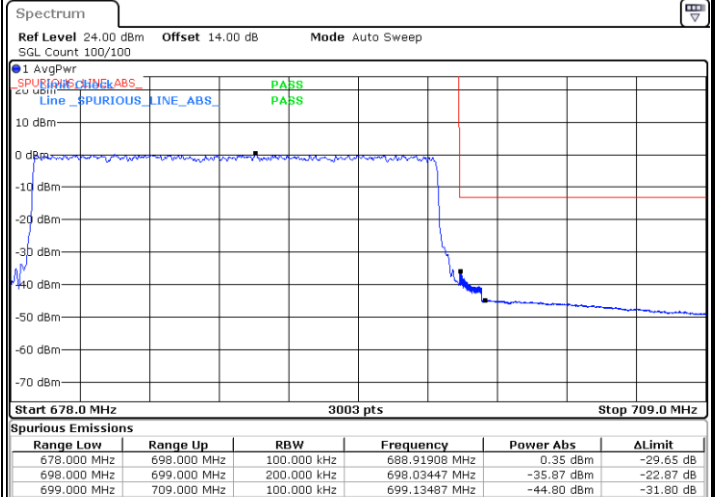
Date: 14.OCT.2021 10:02:35

Lowest Band Edge / Full RB



Date: 13.OCT.2021 19:21:47

Highest Band Edge / Full RB

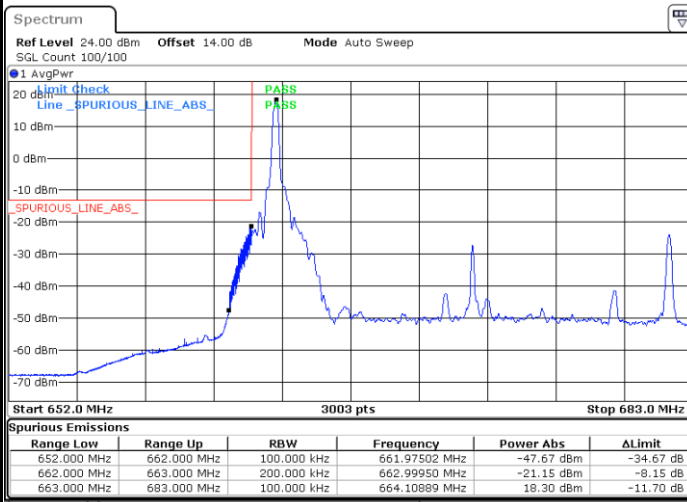


Date: 13.OCT.2021 20:21:42



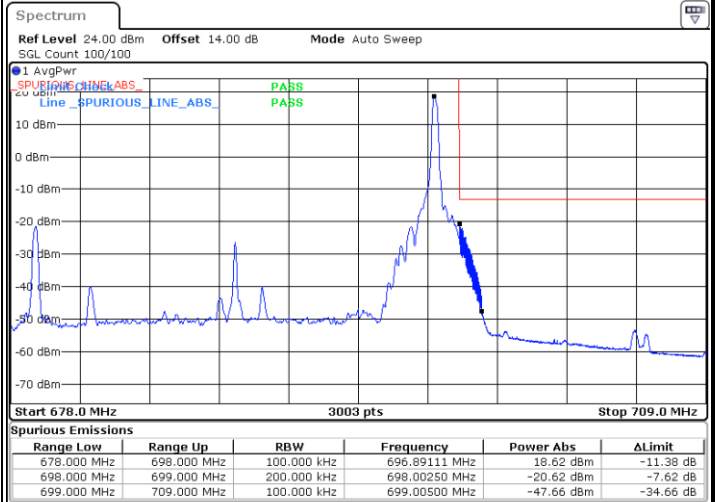
LTE Band 71 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



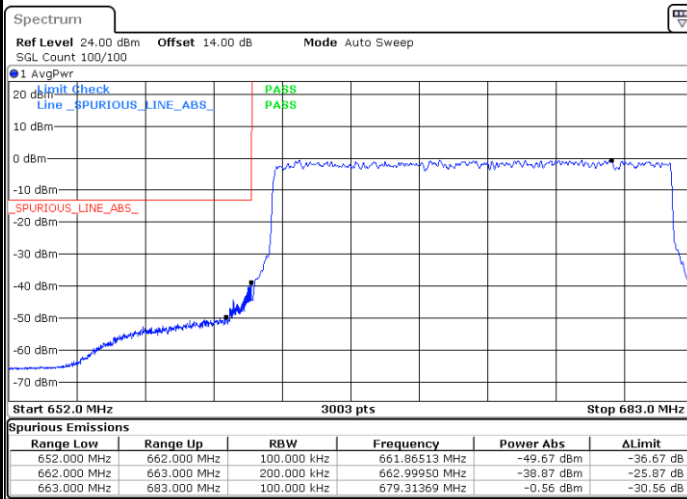
Date: 14.OCT.2021 09:59:51

Highest Band Edge / 1 RB



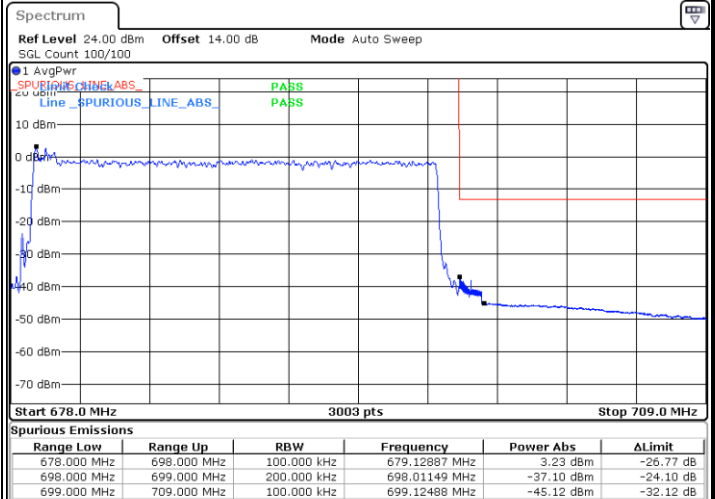
Date: 14.OCT.2021 10:01:33

Lowest Band Edge / Full RB



Date: 13.OCT.2021 20:27:08

Highest Band Edge / Full RB

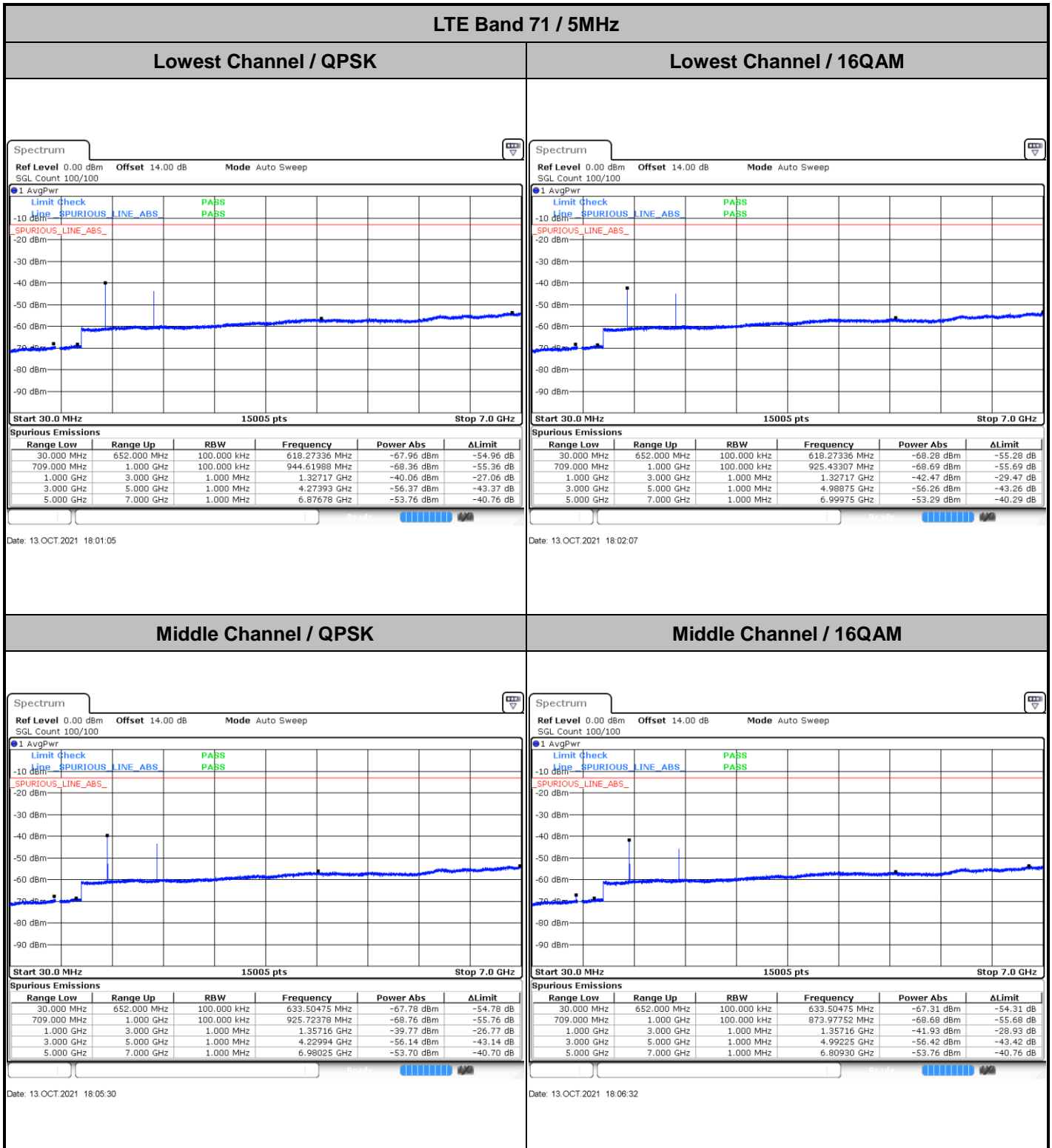


Date: 13.OCT.2021 20:32:19





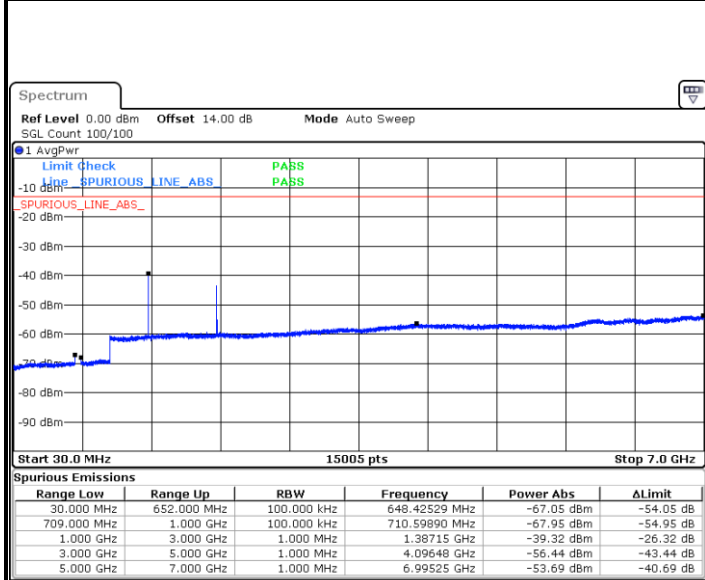
# Conducted Spurious Emission





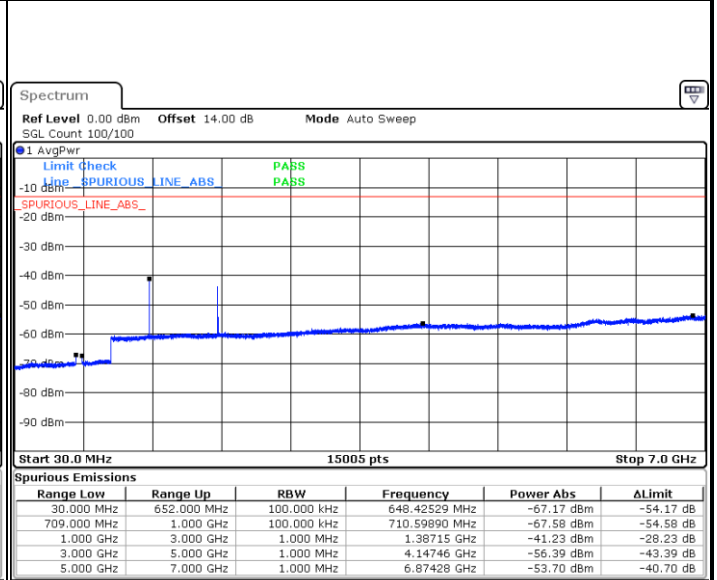
LTE Band 71 / 5MHz

Highest Channel / QPSK



Date: 13.OCT.2021 18:12:53

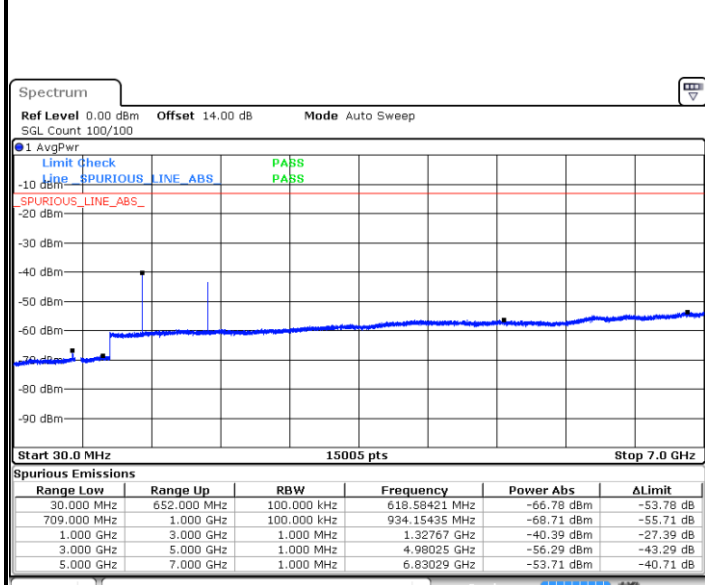
Highest Channel / 16QAM



Date: 13.OCT.2021 18:13:56

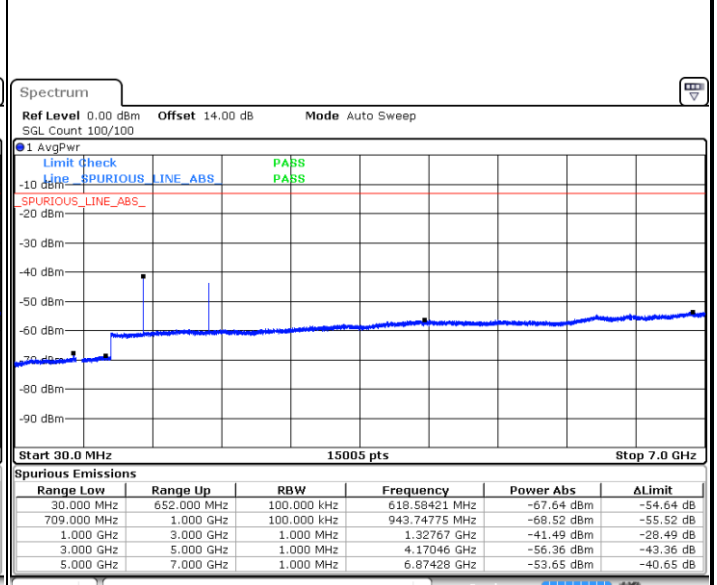
LTE Band 71 / 10MHz

Lowest Channel / QPSK



Date: 13.OCT.2021 18:28:57

Lowest Channel / 16QAM



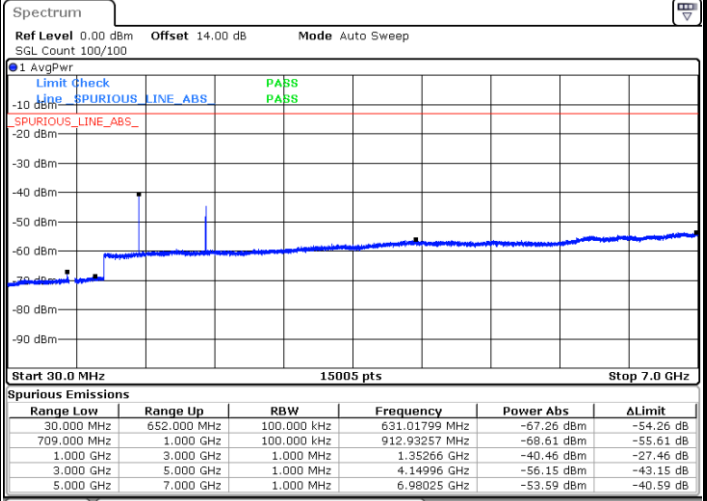
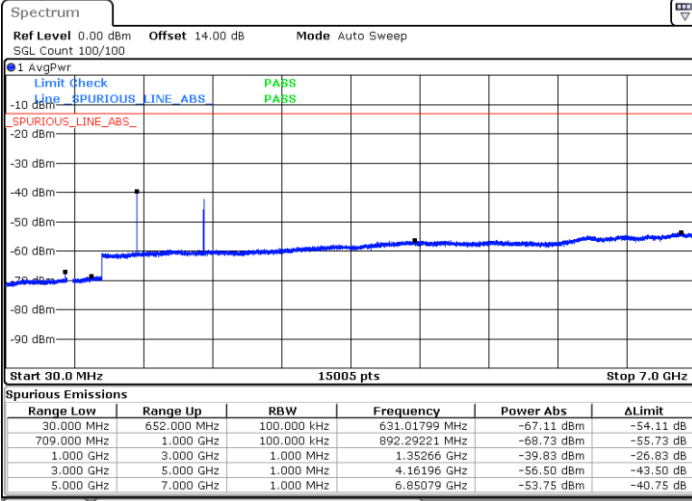
Date: 13.OCT.2021 18:29:59



LTE Band 71 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

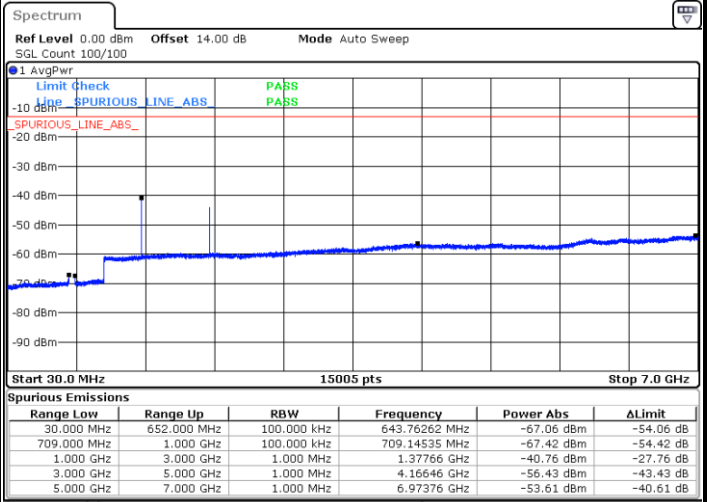
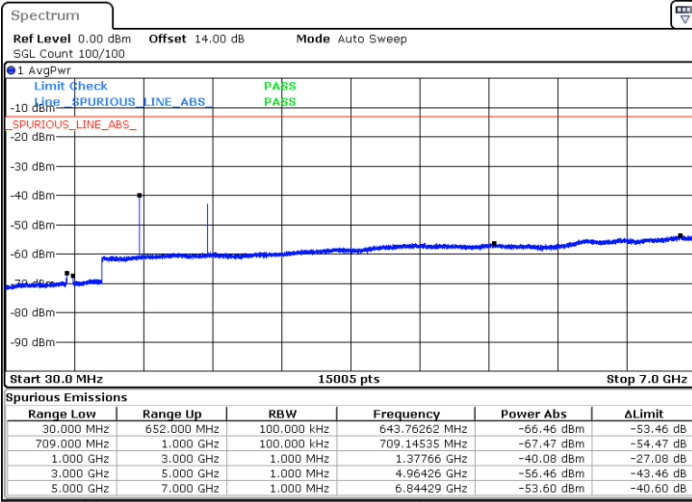


Date: 13.OCT.2021 18:32:37

Date: 13.OCT.2021 18:33:39

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13.OCT.2021 18:39:55

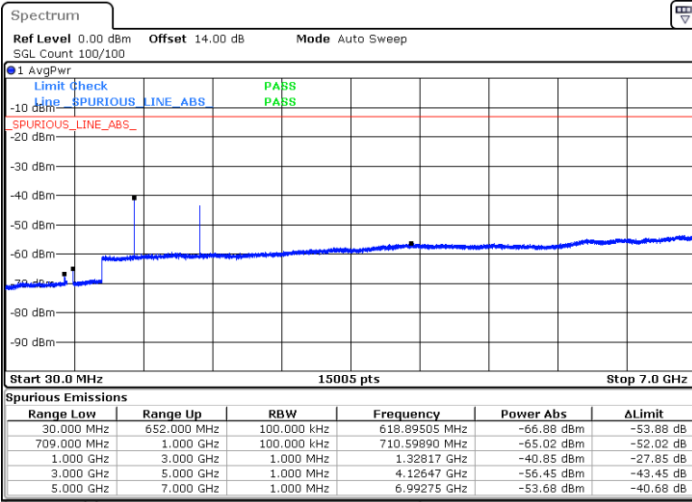
Date: 13.OCT.2021 18:40:57



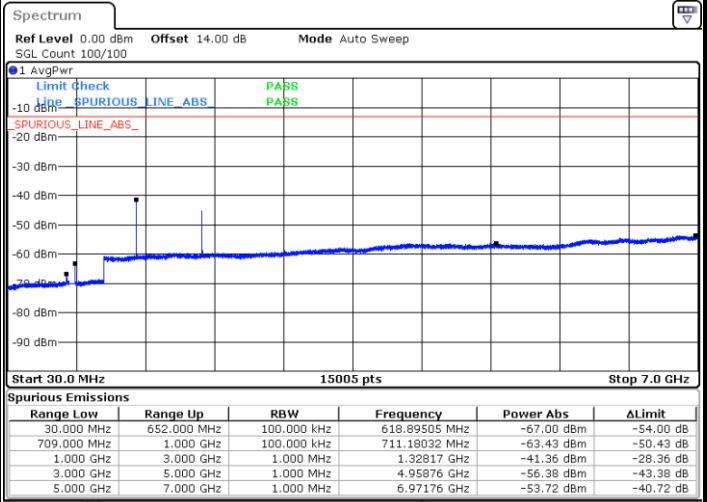
LTE Band 71 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



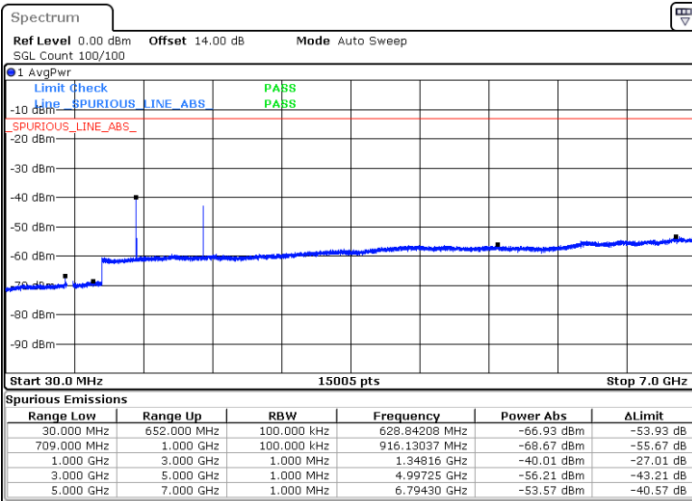
Date: 13.OCT.2021 18:55:52



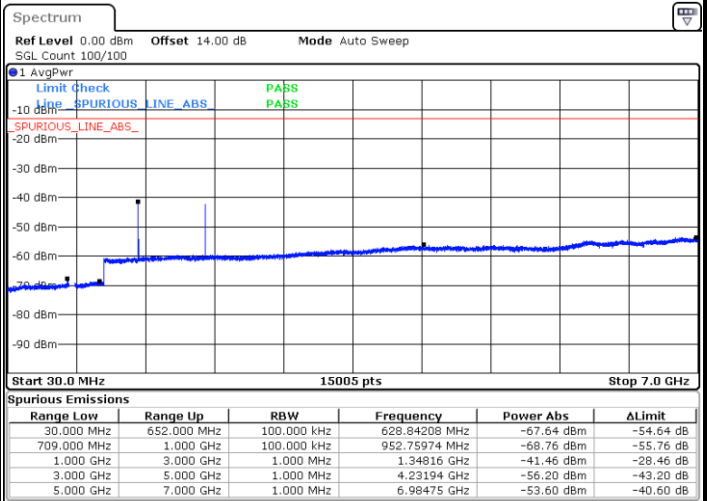
Date: 13.OCT.2021 18:56:55

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 13.OCT.2021 18:59:33

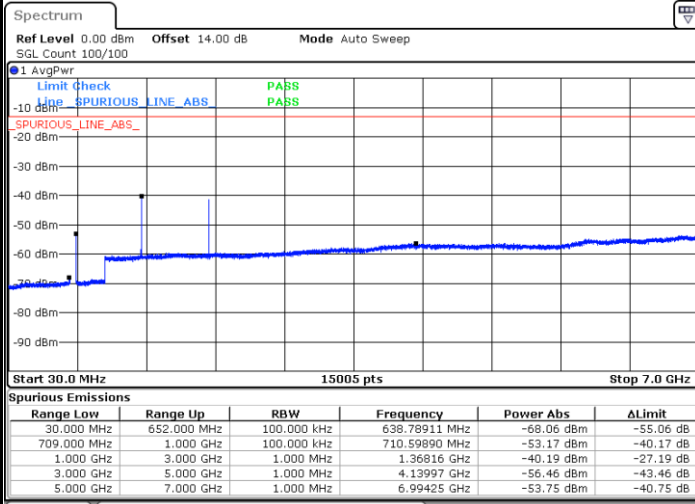


Date: 13.OCT.2021 19:00:35



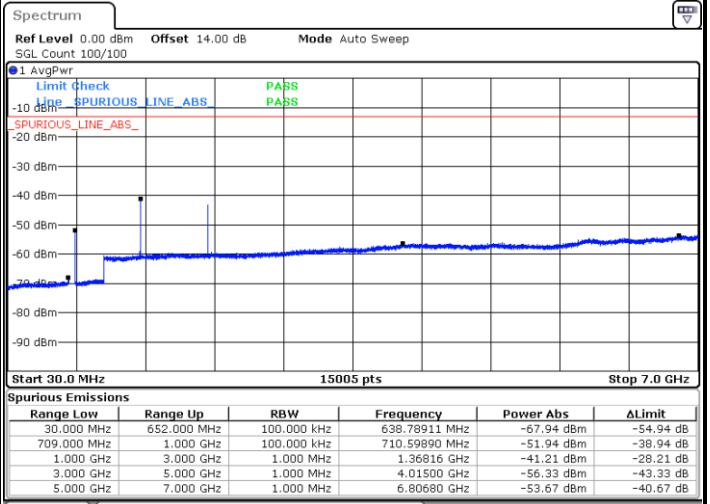
LTE Band71 / 15MHz

Highest Channel / QPSK



Date: 13.OCT.2021 19:06:51

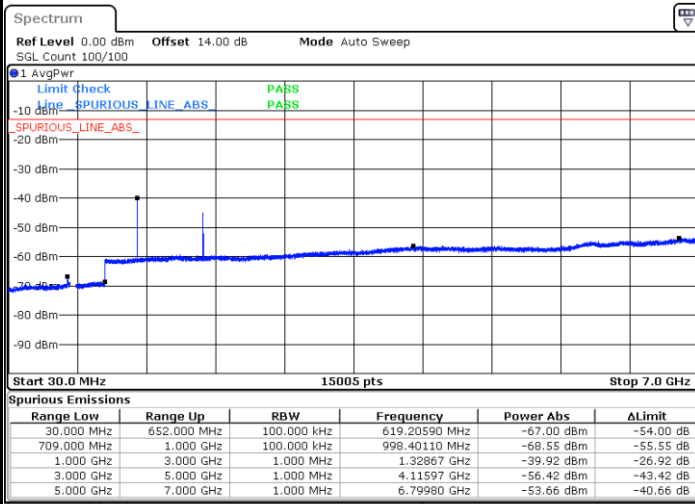
Highest Channel / 16QAM



Date: 13.OCT.2021 19:07:54

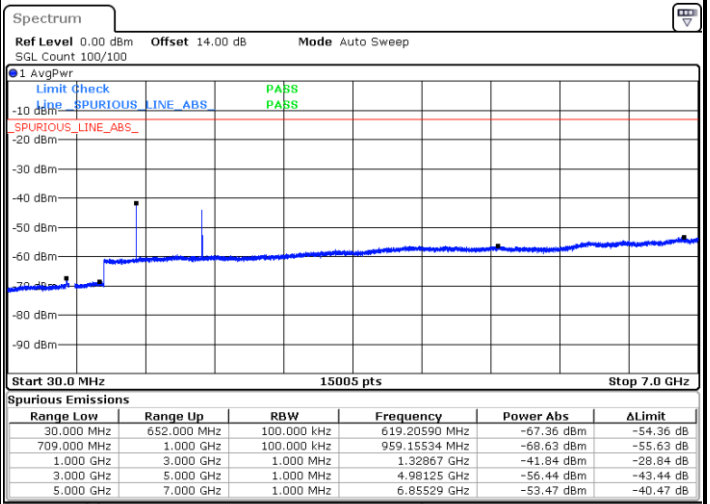
LTE Band 71 / 20MHz

Lowest Channel / QPSK



Date: 13.OCT.2021 19:22:49

Lowest Channel / 16QAM

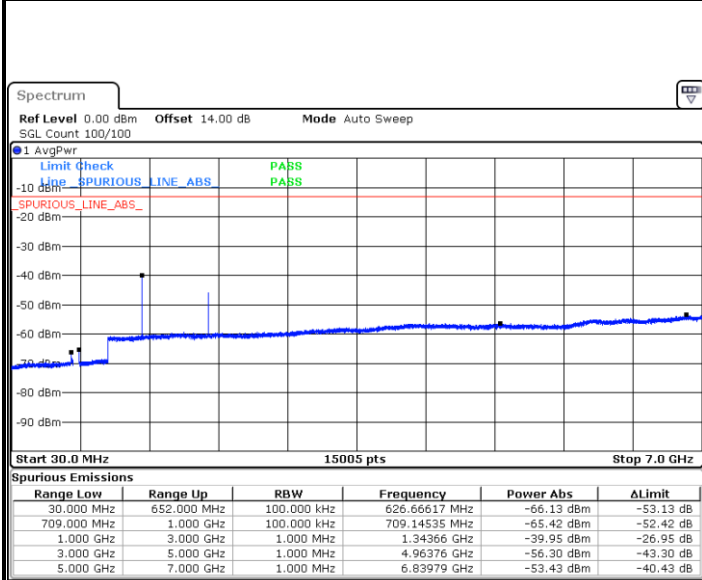


Date: 13.OCT.2021 19:23:52



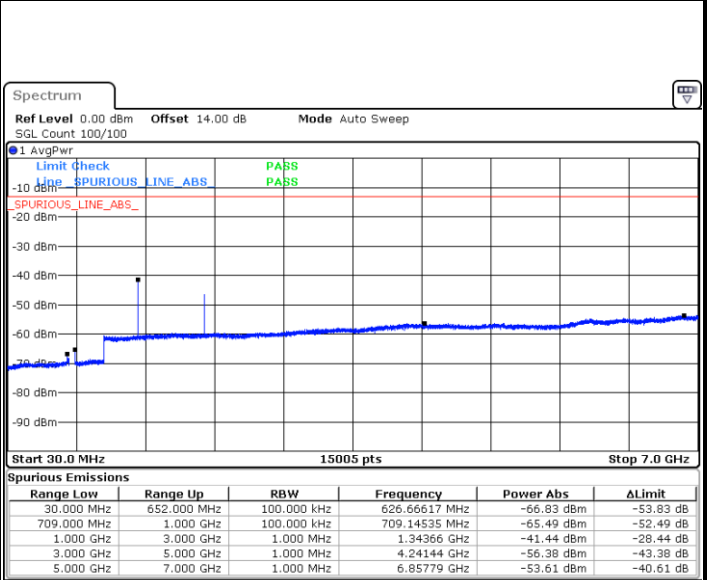
LTE Band 71 / 20MHz

Middle Channel / QPSK



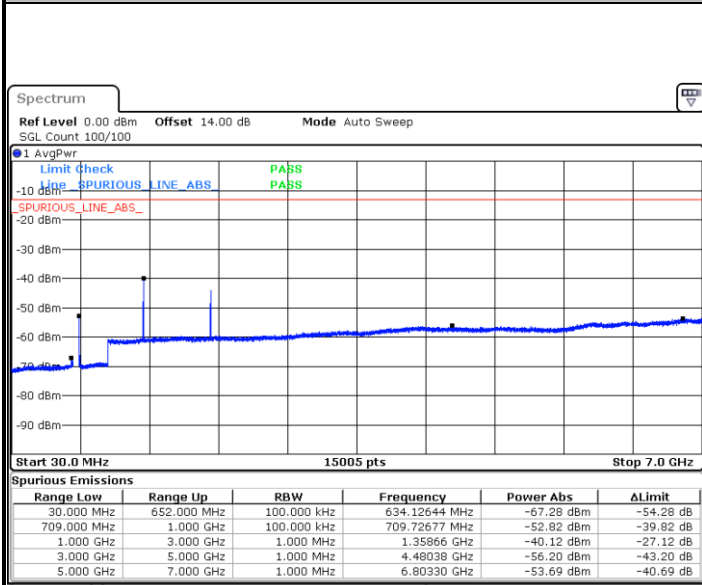
Date: 13.OCT.2021 20:16:21

Middle Channel / 16QAM



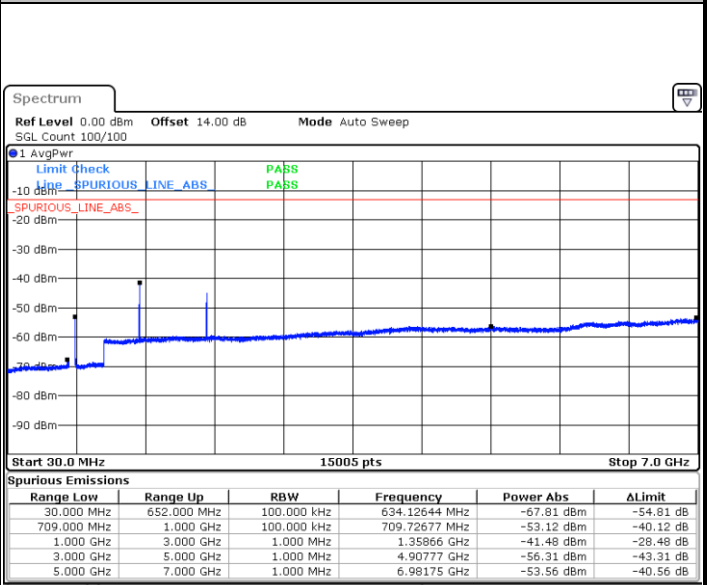
Date: 13.OCT.2021 20:17:23

Highest Channel / QPSK



Date: 13.OCT.2021 20:23:39

Highest Channel / 16QAM



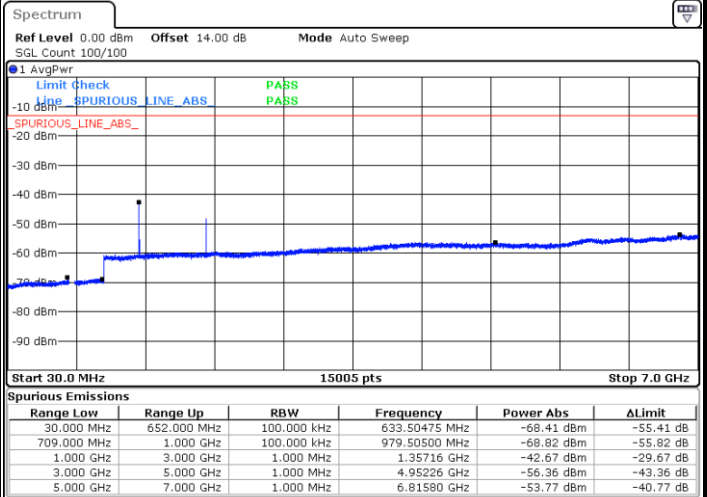
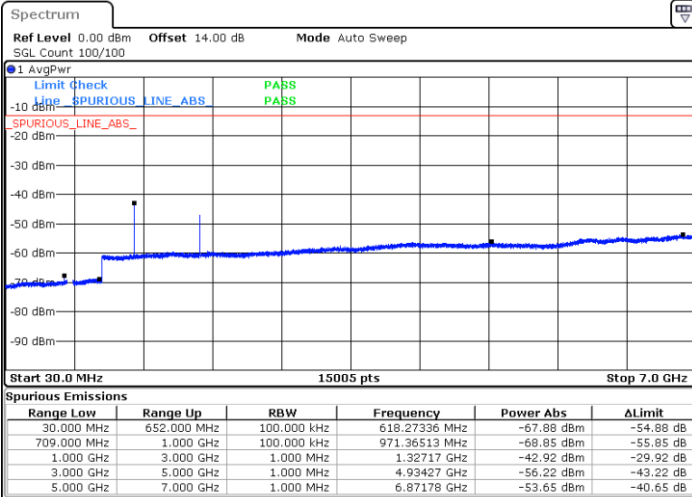
Date: 13.OCT.2021 20:24:41



LTE Band 71 / 5MHz

Lowest Channel / 64QAM

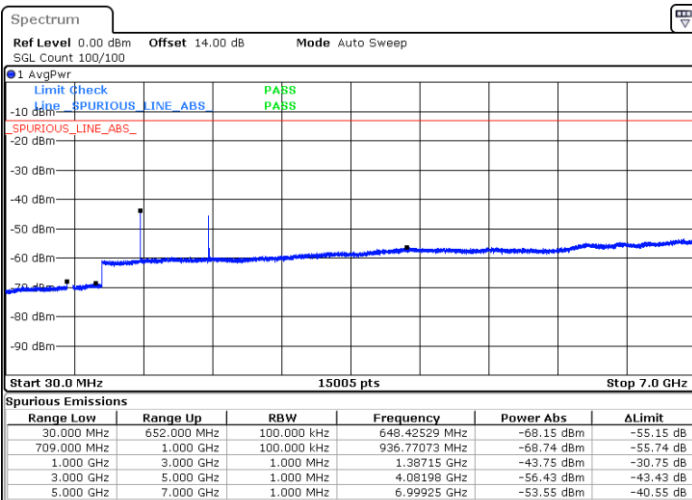
Middle Channel / 64QAM



Date: 13.OCT.2021 18:17:27

Date: 13.OCT.2021 18:19:09

Highest Channel / 64QAM



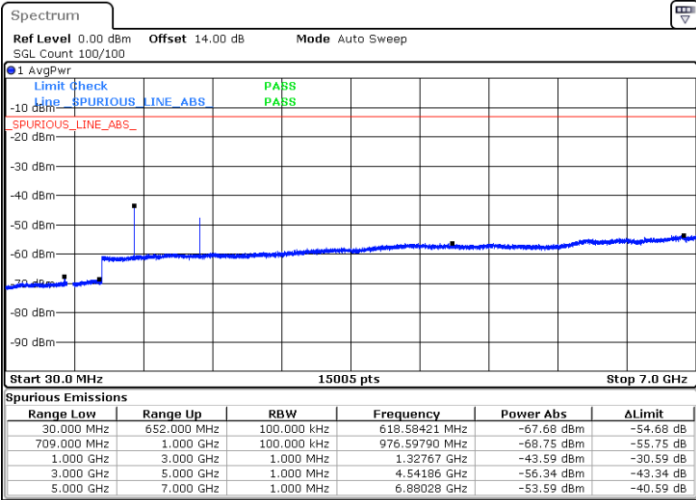
Date: 13.OCT.2021 18:22:41



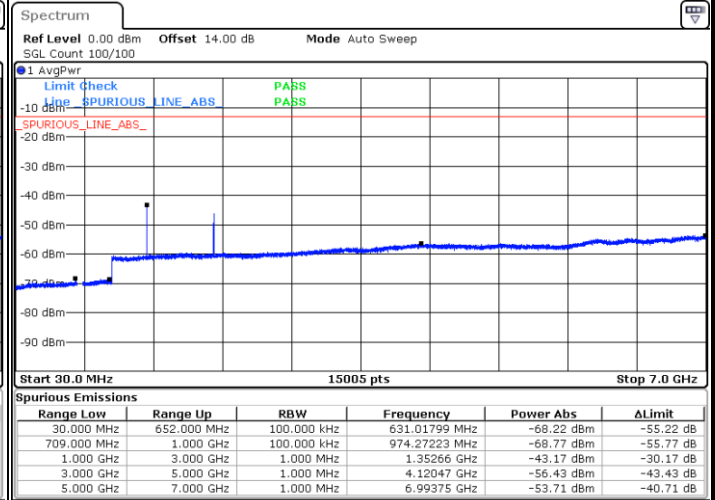
LTE Band 71 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

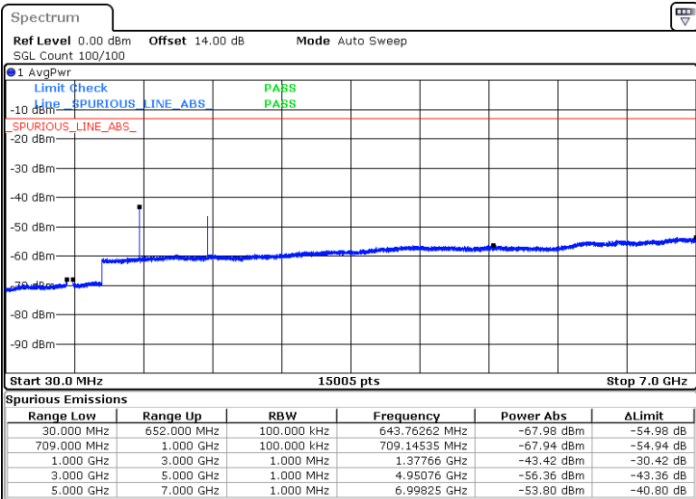


Date: 13.OCT.2021 18:44:26



Date: 13.OCT.2021 18:46:07

Highest Channel / 64QAM



Date: 13.OCT.2021 18:49:36

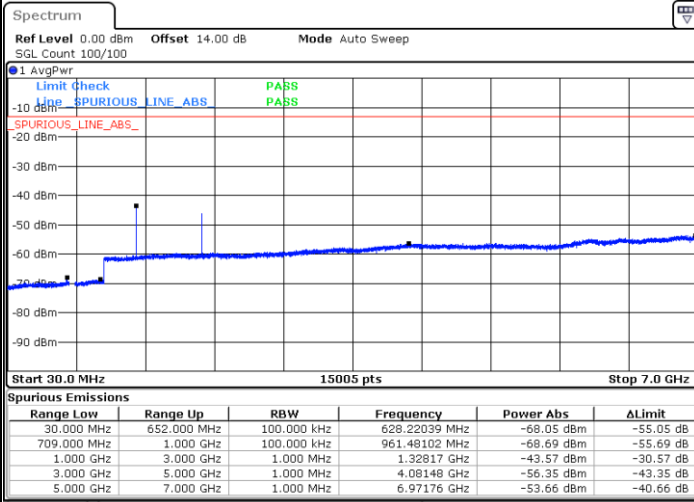




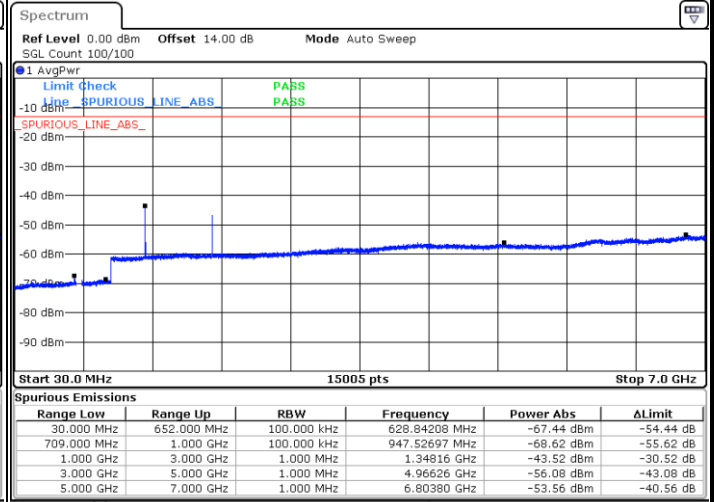
LTE Band 71 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

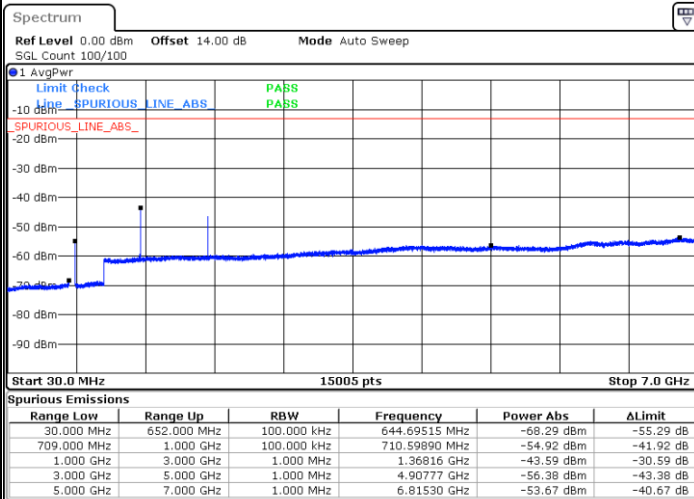


Date: 13.OCT.2021 19:11:24



Date: 13.OCT.2021 19:13:05

Highest Channel / 64QAM



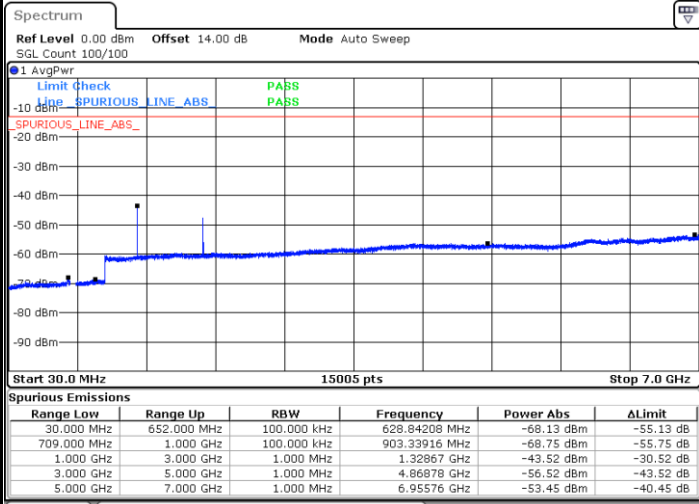
Date: 13.OCT.2021 19:16:33



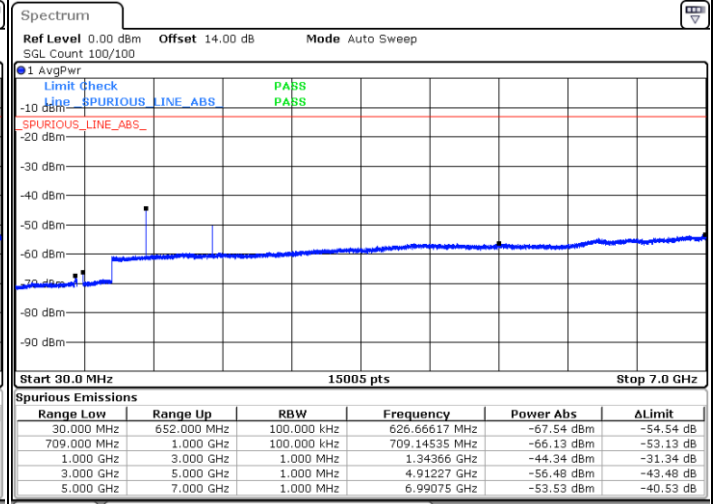
LTE Band 71 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

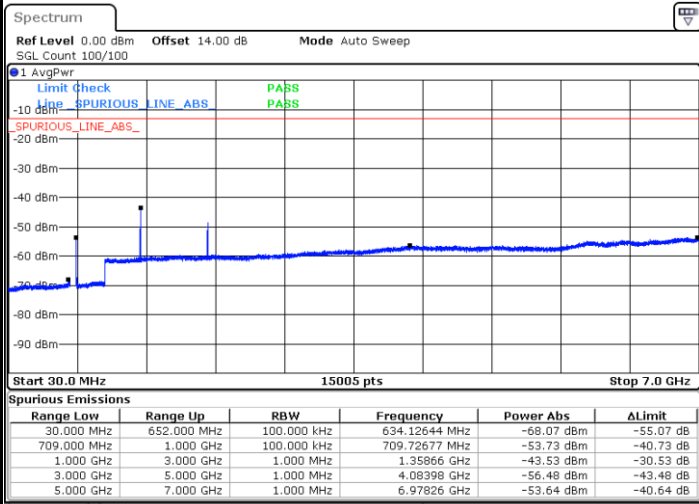


Date: 13.OCT.2021 20:28:10



Date: 13.OCT.2021 20:29:52

Highest Channel / 64QAM



Date: 13.OCT.2021 20:33:21



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	0.0046	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0037	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.43 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 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	-55.79	-13	-42.79	-64.99	-62.54	5.85	12.60	H
	2109	-63.54	-13	-50.54	-75.29	-69.34	7.30	13.10	H
	2812	-62.31	-13	-49.31	-76.61	-65.46	8.35	11.50	H
	1406	-56.48	-13	-43.48	-65.33	-63.23	5.85	12.60	V
	2109	-63.49	-13	-50.49	-75.73	-69.29	7.30	13.10	V
	2812	-63.11	-13	-50.11	-77.13	-66.26	8.35	11.50	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	-51.61	-42.15	-9.46	-60.33	-54.86	4.00	9.40	H
	2339.25	-63.03	-13	-50.03	-76.32	-66.60	4.88	10.60	H
	3119	-61.70	-13	-48.70	-77.11	-66.63	5.52	12.60	H
	1559.5	-50.07	-42.15	-7.92	-58.87	-53.32	4.00	9.40	V
	2339.25	-62.99	-13	-49.99	-76.28	-66.56	4.88	10.60	V
	3119	-61.30	-13	-48.30	-76.75	-66.23	5.52	12.60	V

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	1559.5	-58.82	-42.15	-16.67	-67.54	-62.07	4.00	9.40	H
	2339.25	-62.89	-13	-49.89	-76.18	-66.46	4.88	10.60	H
	3119	-61.31	-13	-48.31	-76.72	-66.24	5.52	12.60	H
	1559.5	-57.79	-42.15	-15.64	-66.59	-61.04	4.00	9.40	V
	2339.25	-62.91	-13	-49.91	-76.20	-66.48	4.88	10.60	V
	3119	-61.58	-13	-48.58	-77.03	-66.51	5.52	12.60	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	3742	-47.31	-13	-34.31	-64.00	-54.06	5.85	12.60	H
	5613	-59.20	-13	-46.20	-78.91	-65.00	7.30	13.10	H
	7484	-55.05	-13	-42.05	-79.79	-58.20	8.35	11.50	H
	9000	-50.88	-13	-37.88	-80.17	-53.03	9.85	12.00	H
	3742	-52.47	-13	-39.47	-69.08	-59.22	5.85	12.60	V
	5613	-59.50	-13	-46.50	-79.4	-65.30	7.30	13.10	V
	7484	-55.12	-13	-42.12	-79.85	-58.27	8.35	11.50	V
	9000	-52.04	-13	-39.04	-80.29	-54.19	9.85	12.00	C

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	-45.76	-13	-32.76	-54.43	-49.01	4.00	9.40	H
	2489.25	-63.57	-13	-50.57	-76.40	-67.14	4.88	10.60	H
	3319	-62.90	-13	-49.90	-77.62	-67.83	5.52	12.60	H
	1659.5	-49.51	-13	-36.51	-57.78	-52.76	4.00	9.40	V
	2489.25	-63.53	-13	-50.53	-76.32	-67.10	4.88	10.60	V
	3319	-63.06	-13	-50.06	-77.56	-67.99	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	-41.25	-13	-28.25	-56.63	-48.10	5.65	12.50	H
	5208	-53.45	-13	-40.45	-72.78	-59.12	7.13	12.80	H
	6944	-56.24	-13	-43.24	-80.17	-59.64	8.40	11.80	H
	3472	-48.45	-13	-35.45	-63.85	-55.30	5.65	12.50	V
	5208	-60.67	-13	-47.67	-80.25	-66.34	7.13	12.80	V
	6944	-56.02	-13	-43.02	-80.42	-59.42	8.40	11.80	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	1343	-59.25	-13	-46.25	-67.59	-62.50	4.00	9.40	H
	2014.5	-65.06	-13	-52.06	-75.21	-68.63	4.88	10.60	H
	2686	-62.93	-13	-49.93	-76.50	-67.86	5.52	12.60	H
	1343	-62.64	-13	-49.64	-70.61	-65.89	4.00	9.40	V
	2014.5	-65.58	-13	-52.58	-75.62	-69.15	4.88	10.60	V
	2686	-62.83	-13	-49.83	-76.42	-67.76	5.52	12.60	V

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