

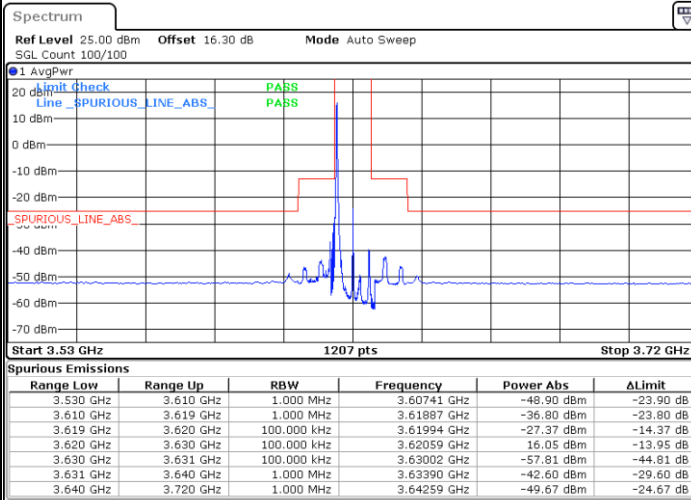


LTE Band 48 / 10MHz

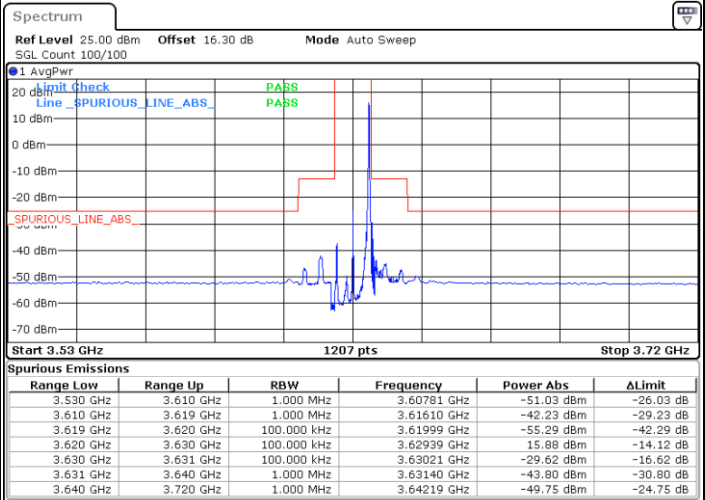
16QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



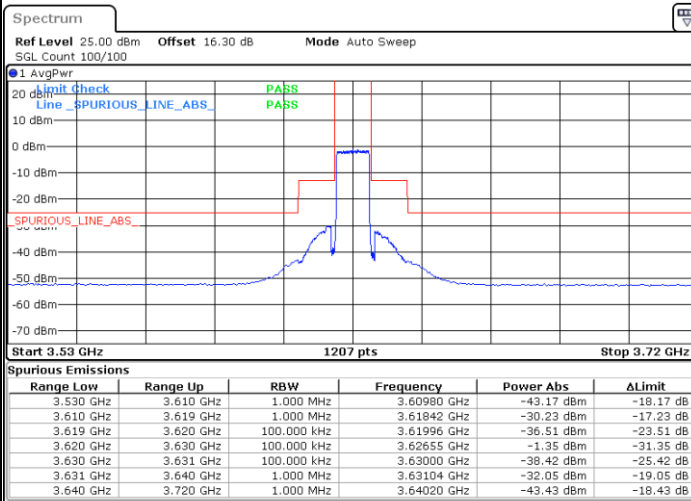
Date: 1.FEB.2021 10:16:05



Date: 1.FEB.2021 10:25:34

Middle Channel / FullRB

N/A



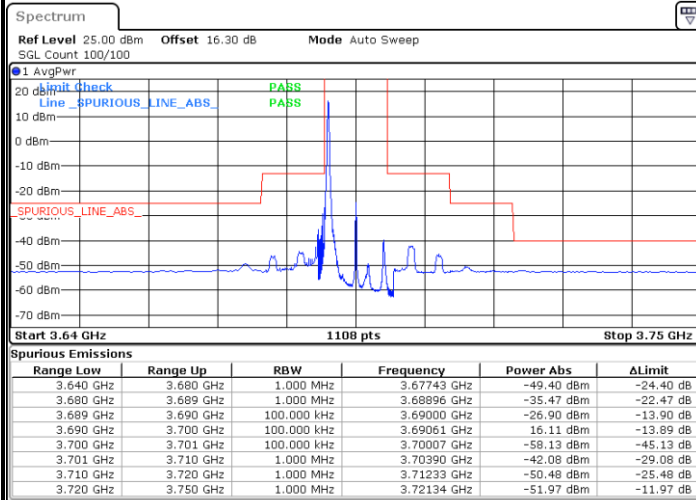
Date: 1.FEB.2021 10:20:49



LTE Band 48 / 10MHz

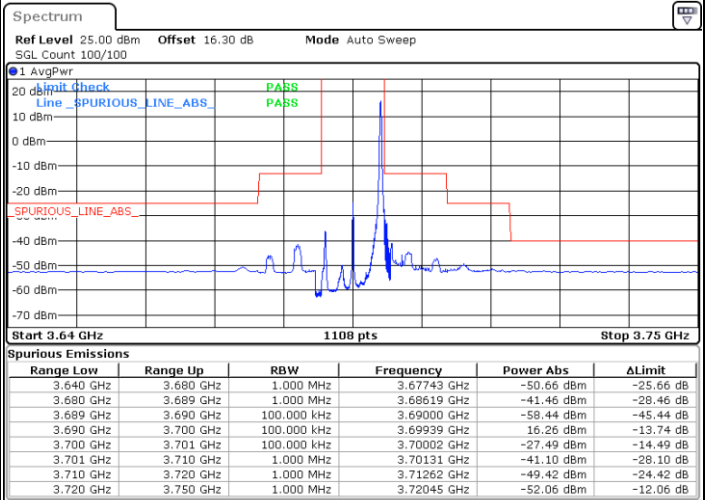
16QAM

Highest Channel / 1RB0



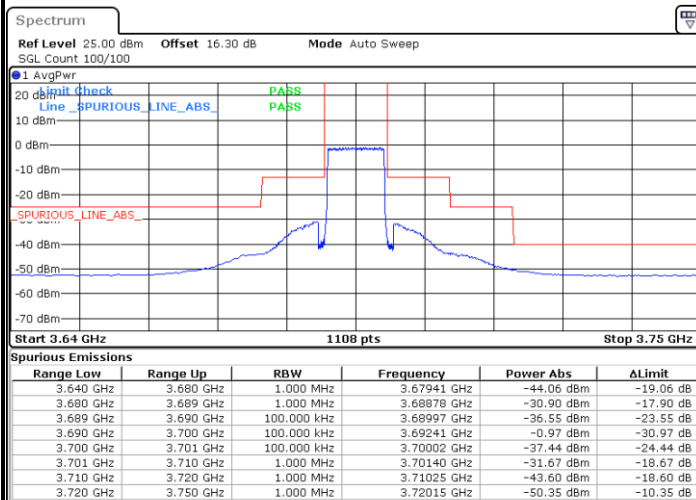
Date: 1.FEB.2021 10:17:39

Highest Channel / 1RBmax



Date: 1.FEB.2021 10:27:09

Highest Channel / FullIRB



Date: 1.FEB.2021 10:22:24

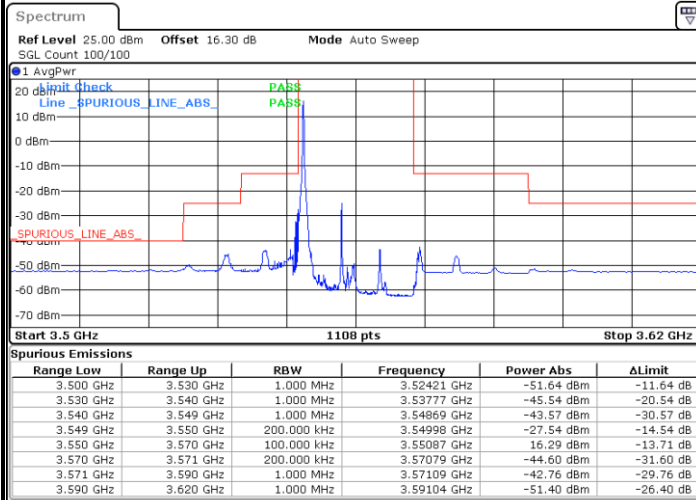
N/A



LTE Band 48 / 15MHz

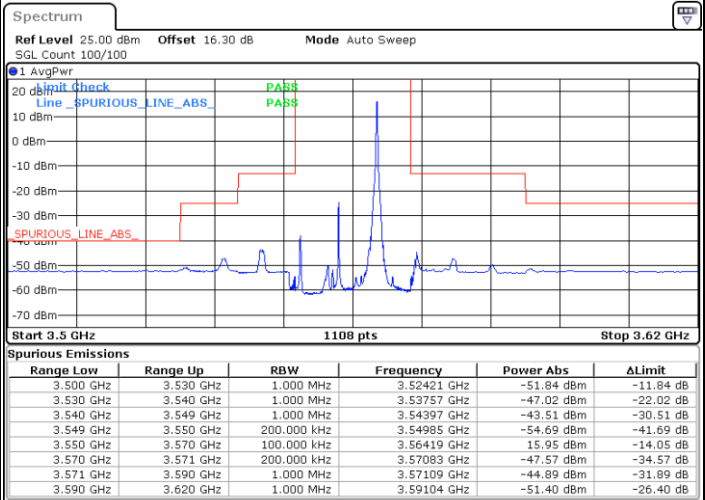
16QAM

Lowest Channel / 1RB0



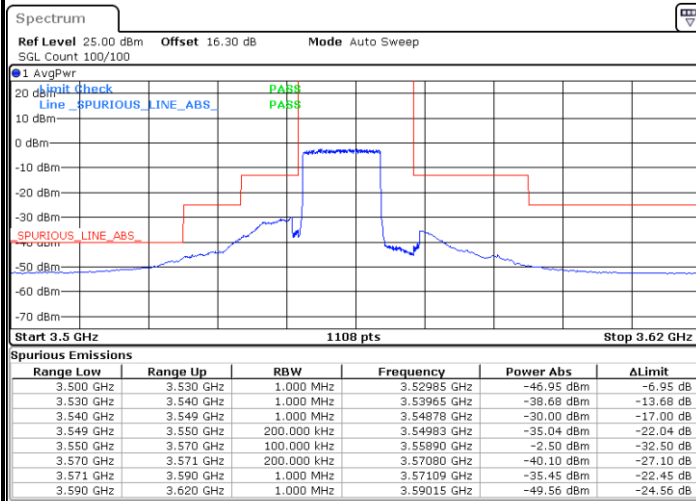
Date: 1.FEB.2021 10:28:45

Lowest Channel / 1RBmax



Date: 1.FEB.2021 10:38:15

Lowest Channel / FullRB



Date: 1.FEB.2021 10:33:30

N/A

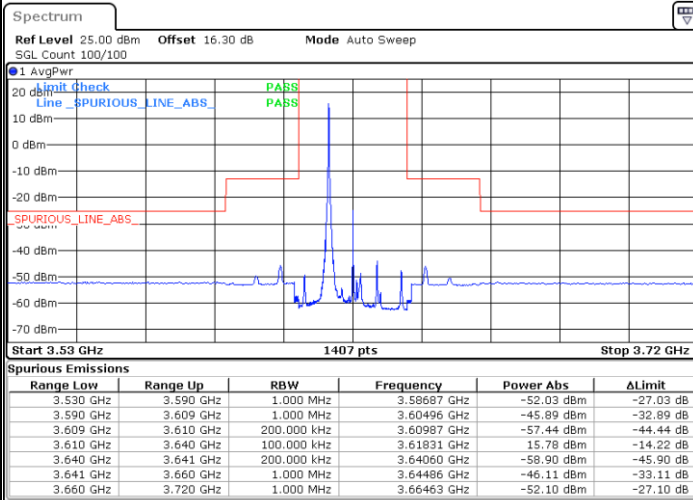


LTE Band 48 / 15MHz

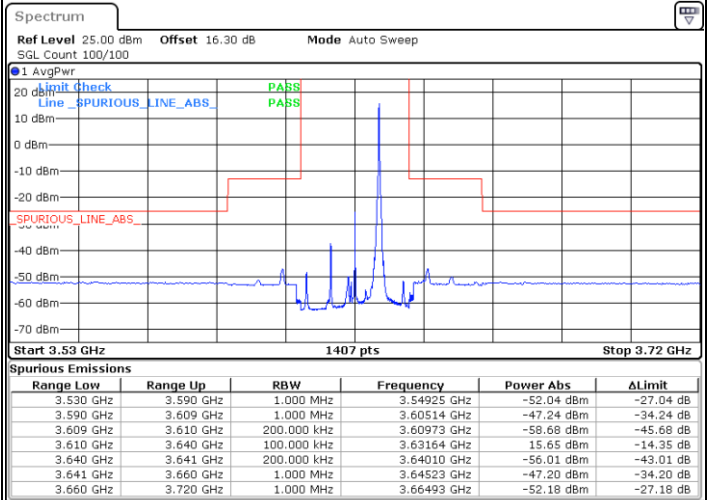
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



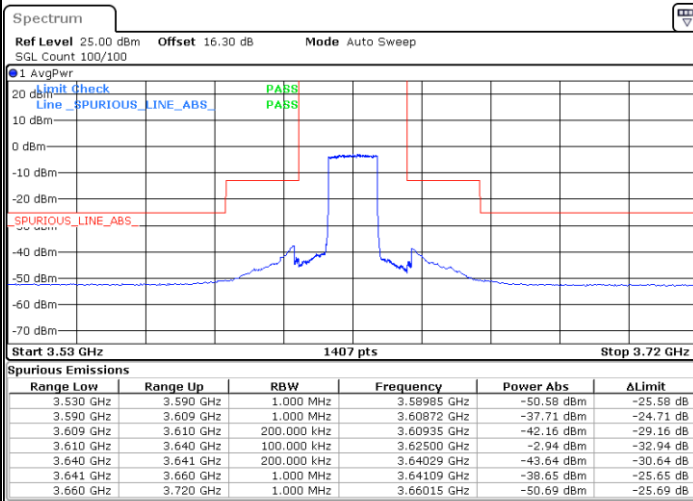
Date: 1.FEB.2021 10:30:20



Date: 1.FEB.2021 10:39:50

Middle Channel / FullRB

N/A



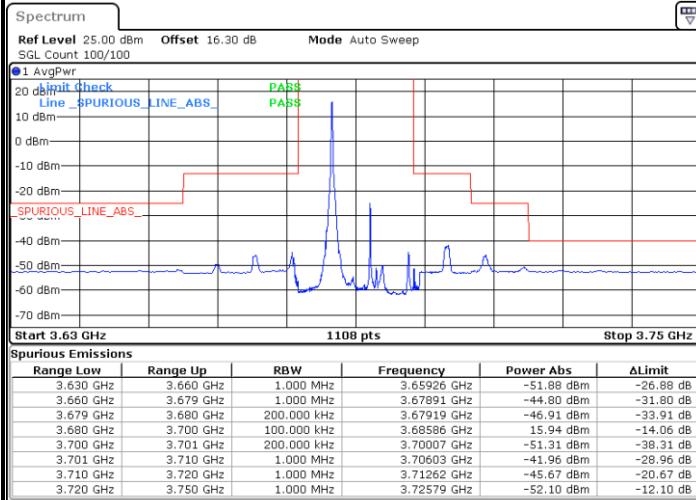
Date: 1.FEB.2021 10:35:05



LTE Band 48 / 15MHz

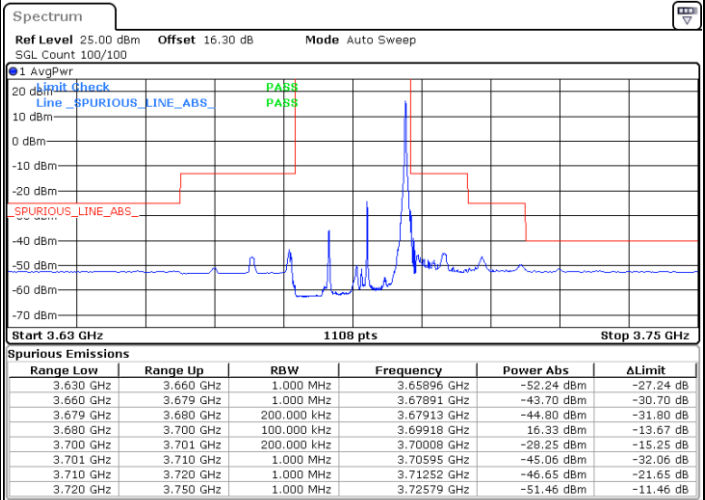
16QAM

Highest Channel / 1RB0



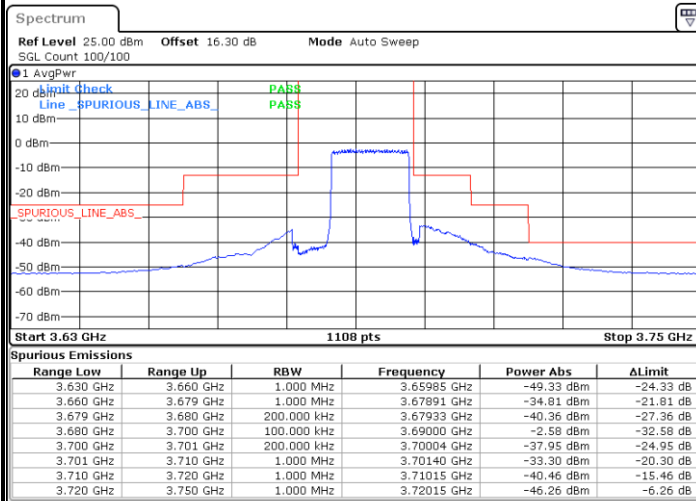
Date: 1.FEB.2021 10:31:54

Highest Channel / 1RBmax



Date: 1.FEB.2021 10:41:24

Highest Channel / FullIRB



Date: 1.FEB.2021 10:36:39

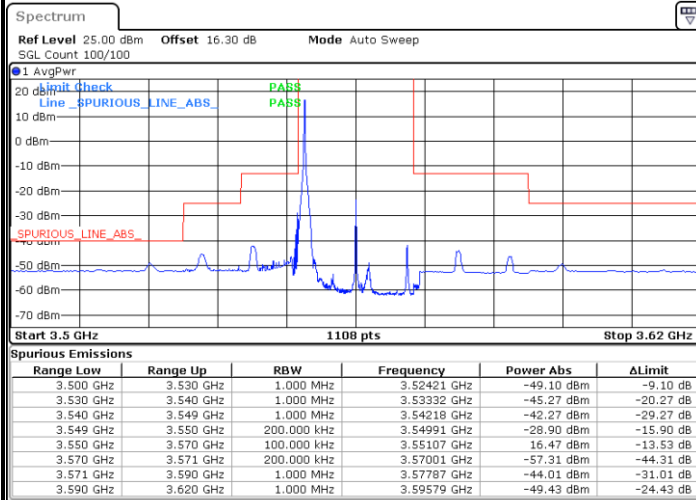
N/A



LTE Band 48 / 20MHz

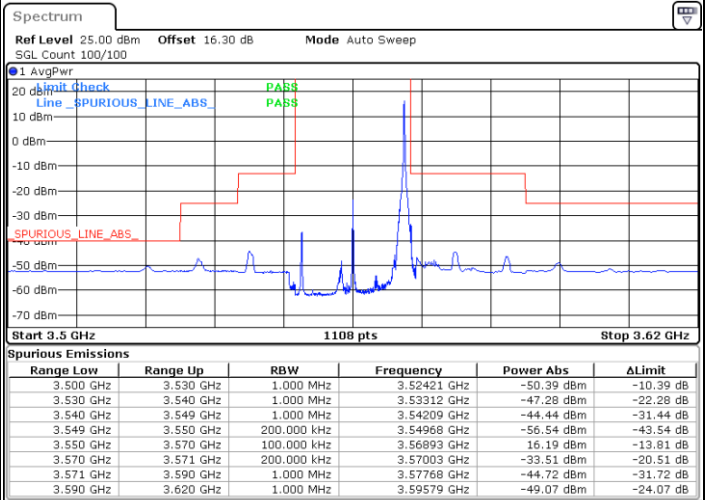
16QAM

Lowest Channel / 1RB0



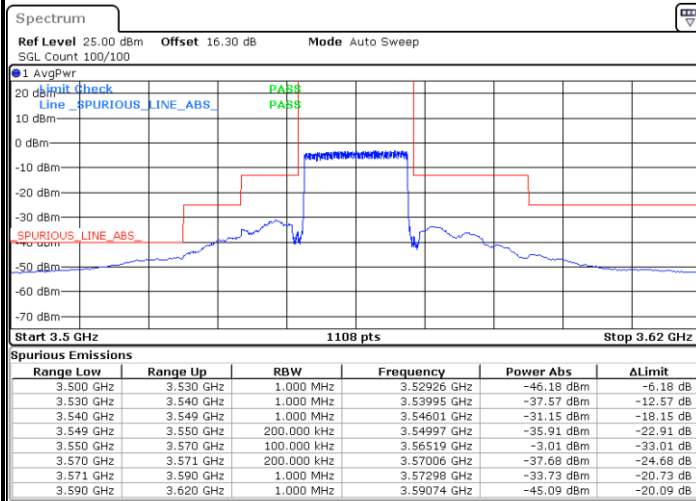
Date: 1.FEB.2021 10:47:48

Lowest Channel / 1RBmax



Date: 1.FEB.2021 10:52:33

Lowest Channel / FullIRB



Date: 1.FEB.2021 10:43:01

N/A

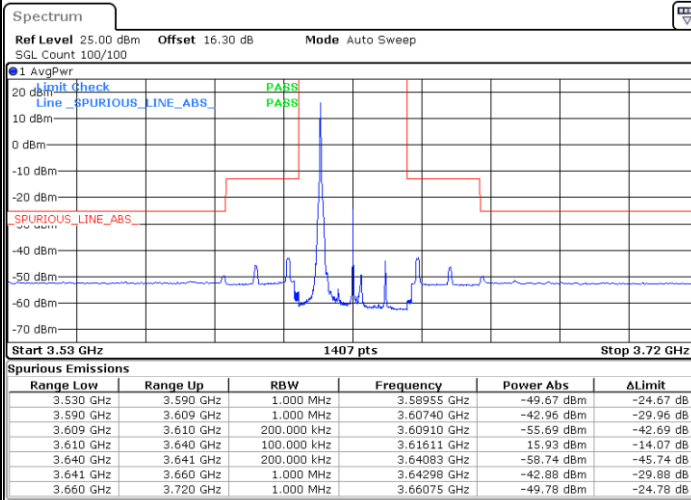


LTE Band 48 / 20MHz

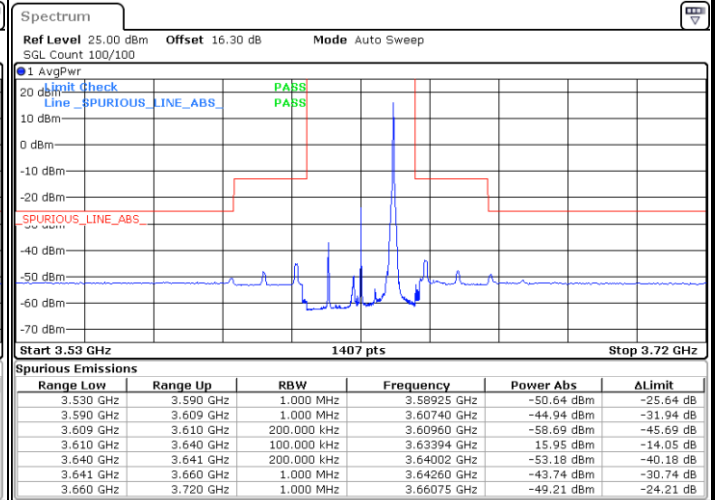
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



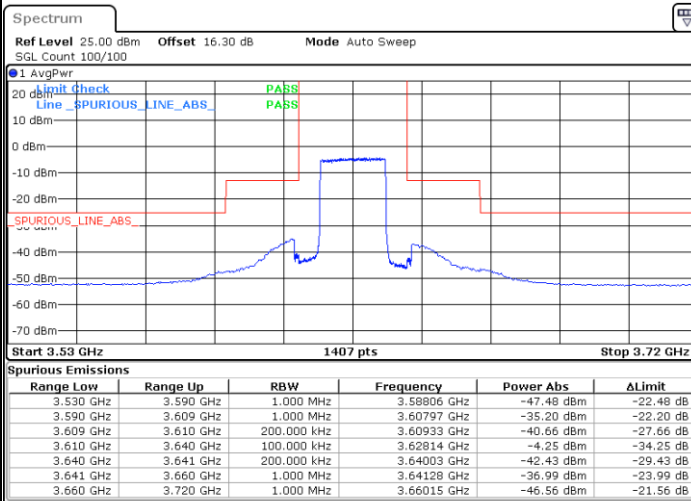
Date: 1.FEB.2021 10:49:23



Date: 1.FEB.2021 10:54:08

Middle Channel / FullRB

N/A



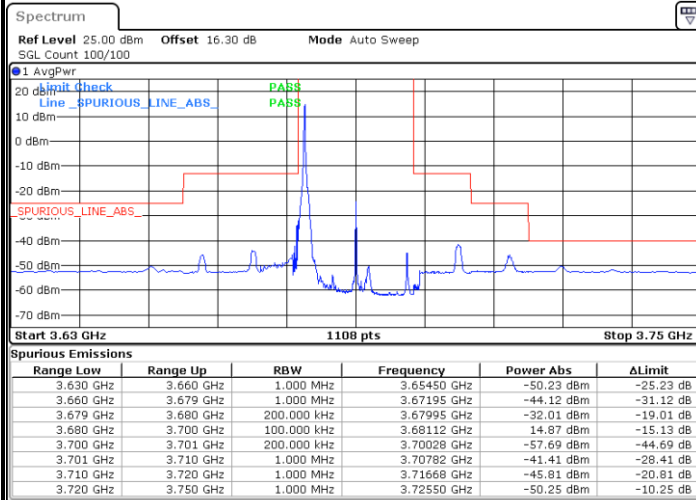
Date: 1.FEB.2021 10:44:36



LTE Band 48 / 20MHz

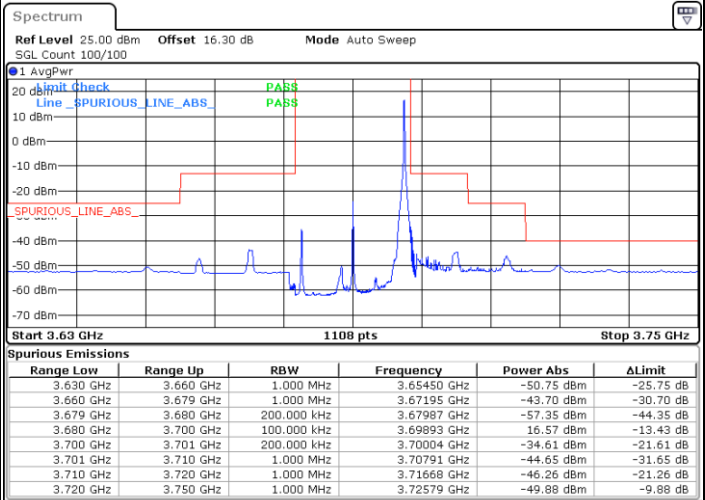
16QAM

Highest Channel / 1RB0



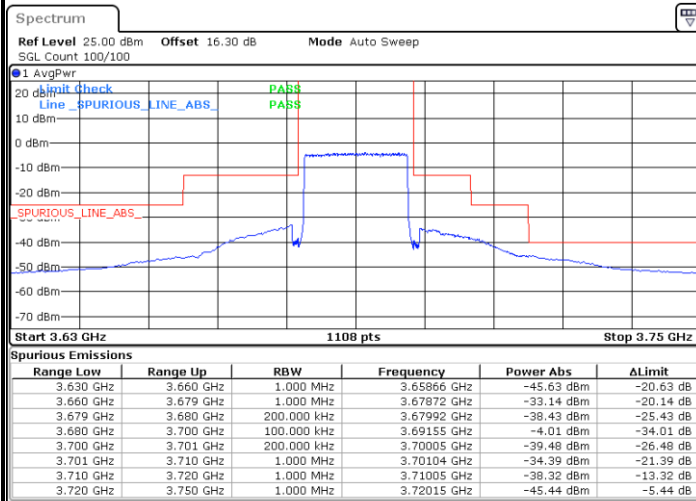
Date: 1.FEB.2021 10:50:57

Highest Channel / 1RBmax



Date: 1.FEB.2021 10:55:43

Highest Channel / FullIRB



Date: 1.FEB.2021 10:46:11

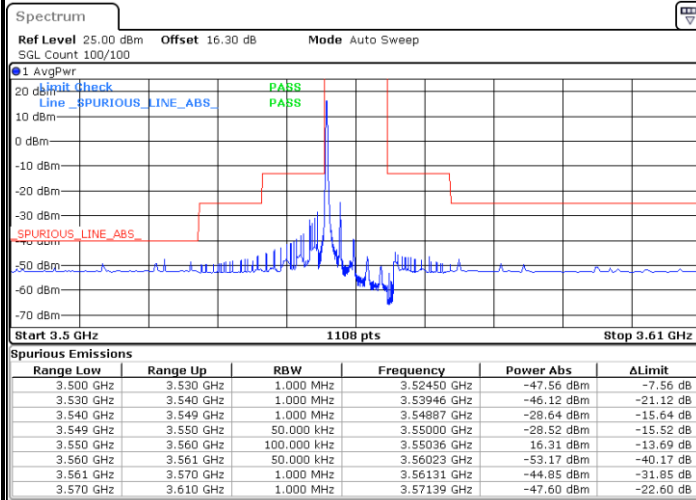
N/A



LTE Band 48 / 5MHz

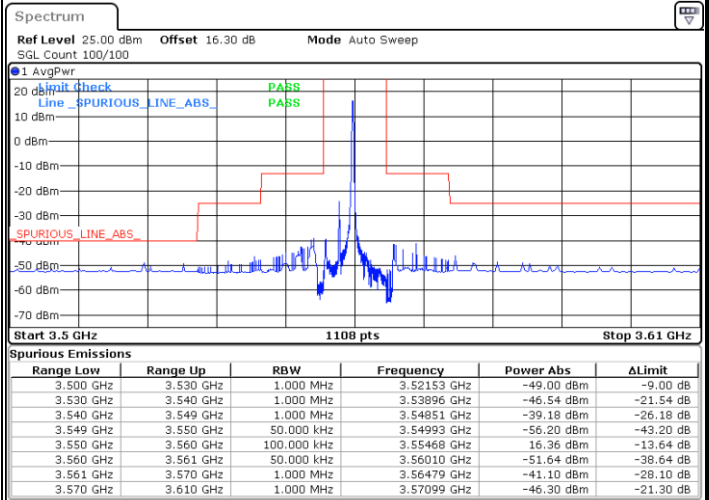
64QAM

Lowest Channel / 1RB0



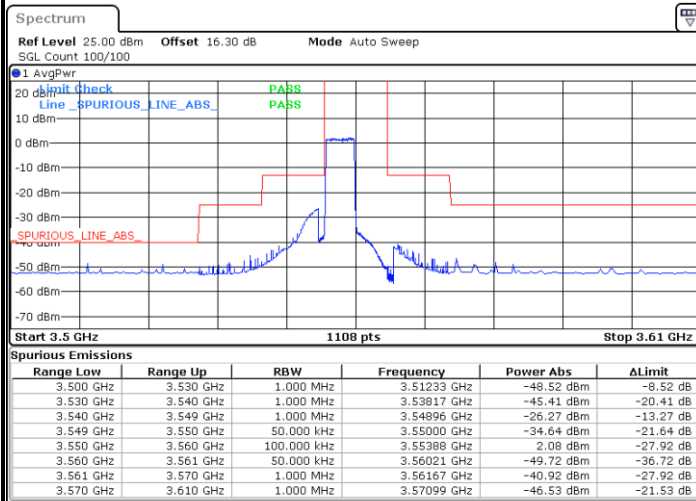
Date: 1.FEB.2021 10:00:45

Lowest Channel / 1RBmax



Date: 1.FEB.2021 10:10:16

Lowest Channel / FullIRB



Date: 1.FEB.2021 10:05:30

N/A

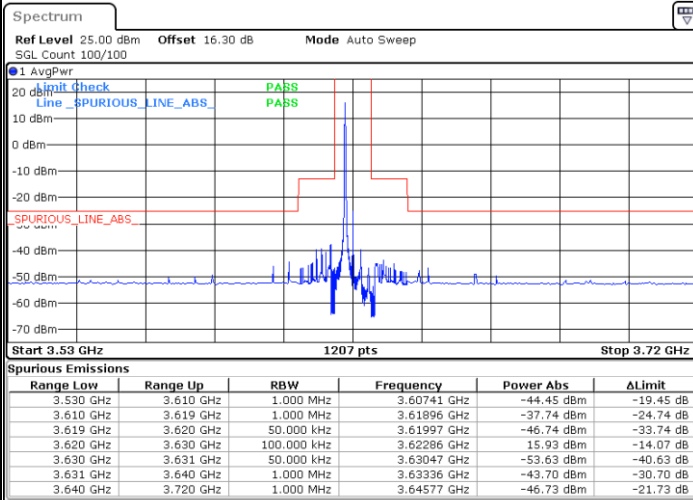


LTE Band 48 / 5MHz

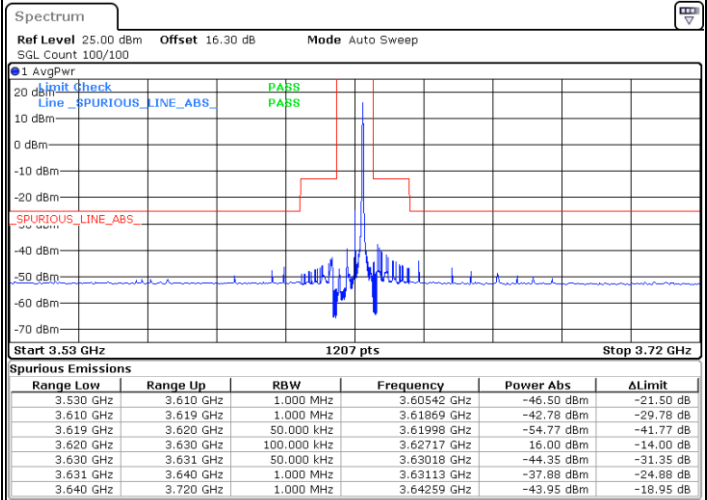
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



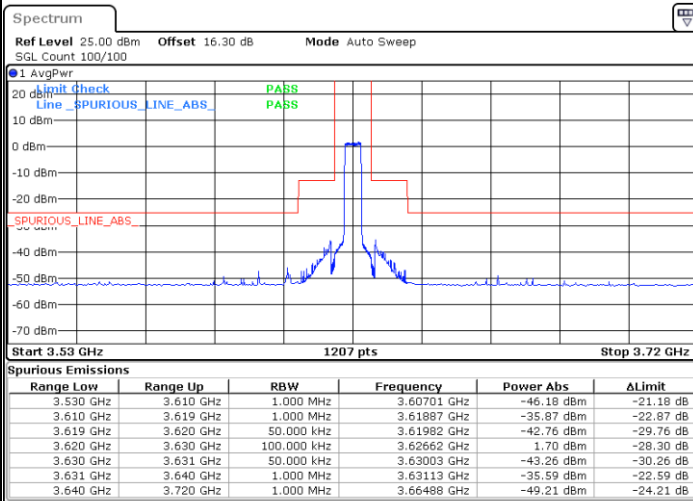
Date: 1.FEB.2021 10:01:16



Date: 1.FEB.2021 10:10:48

Middle Channel / FullRB

N/A



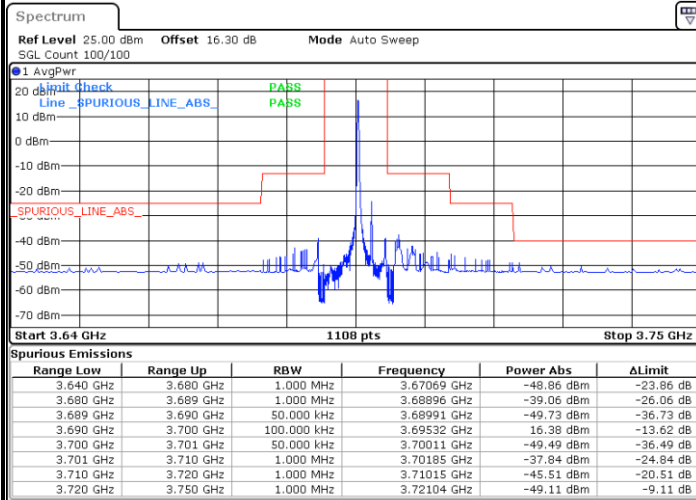
Date: 1.FEB.2021 10:06:01



LTE Band 48 / 5MHz

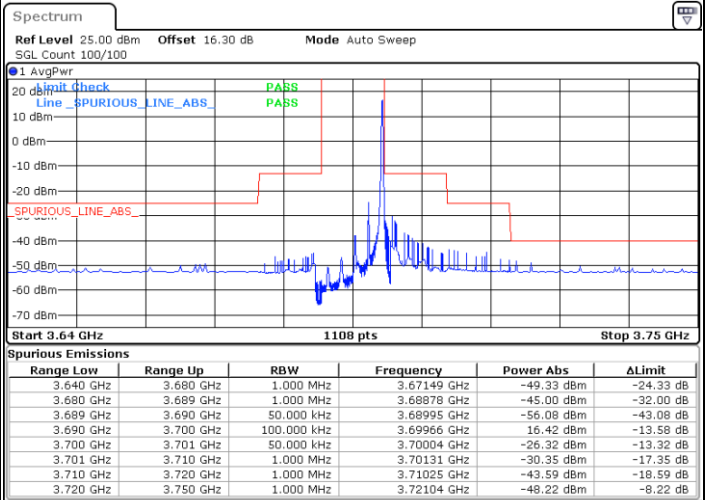
64QAM

Highest Channel / 1RB0



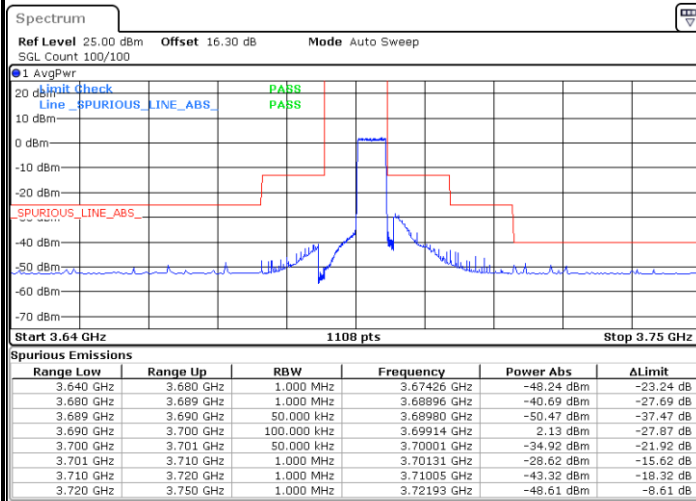
Date: 1.FEB.2021 10:03:54

Highest Channel / 1RBmax



Date: 1.FEB.2021 10:13:26

Highest Channel / FullIRB



Date: 1.FEB.2021 10:08:41

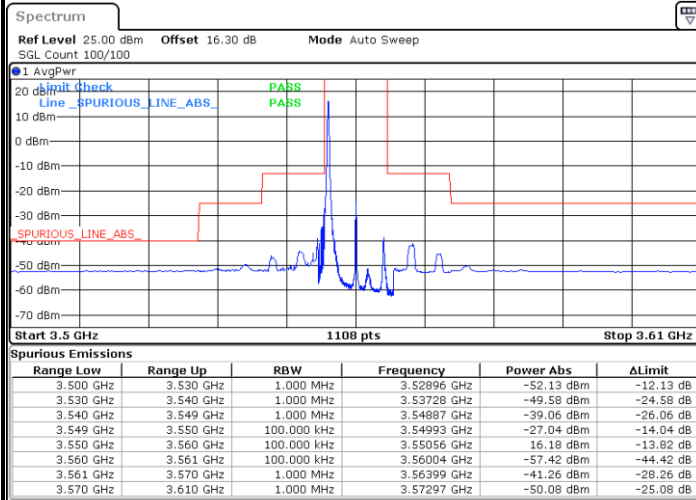
N/A



LTE Band 48 / 10MHz

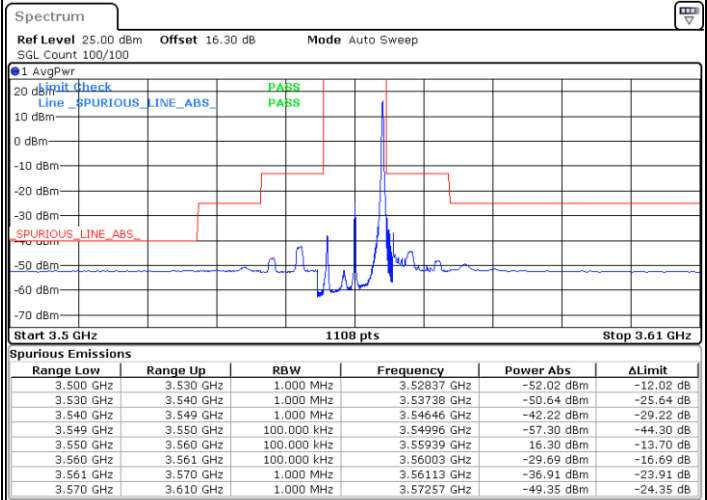
64QAM

Lowest Channel / 1RB0



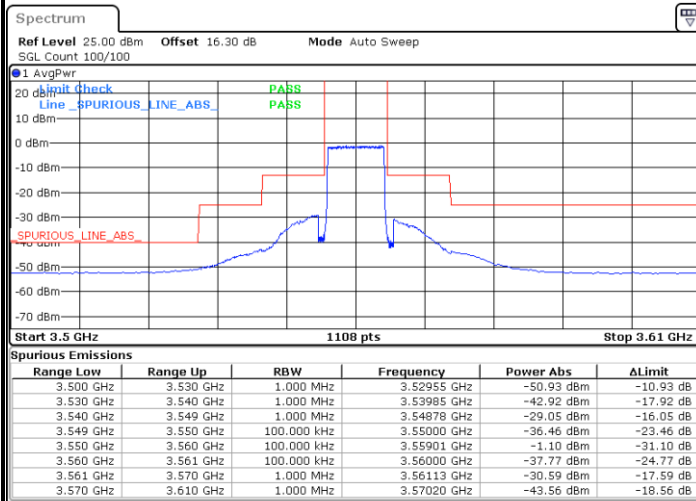
Date: 1.FEB.2021 10:13:58

Lowest Channel / 1RBmax



Date: 1.FEB.2021 10:23:28

Lowest Channel / FullRB



Date: 1.FEB.2021 10:18:43

N/A

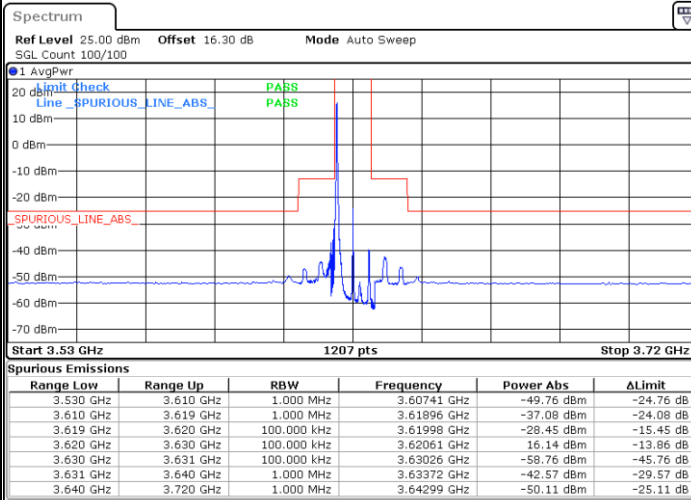


LTE Band 48 / 10MHz

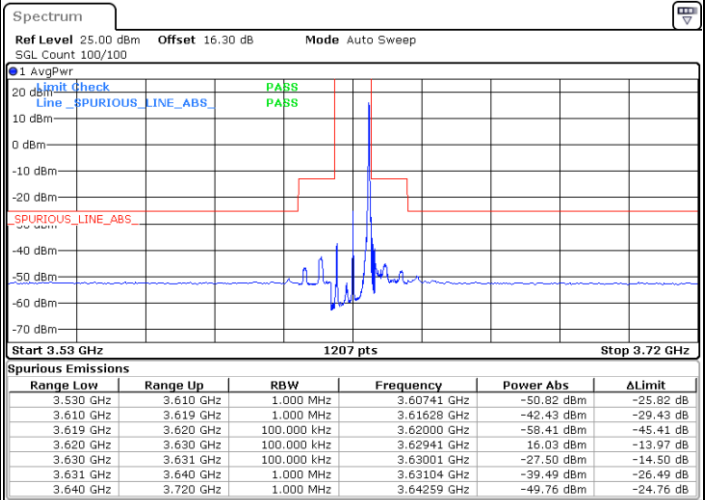
64QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



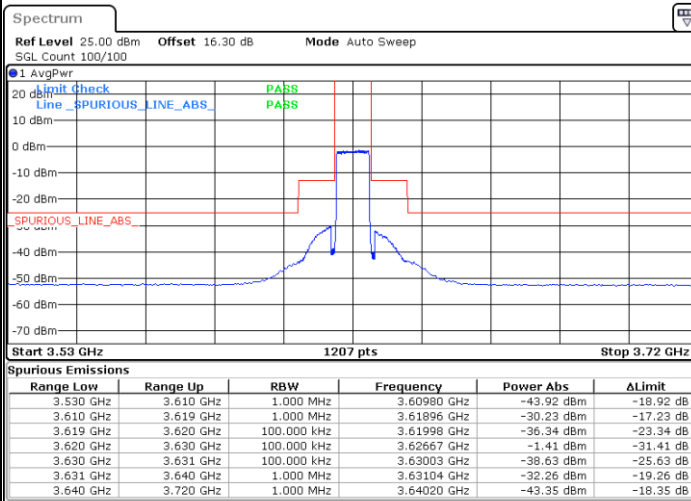
Date: 1.FEB.2021 10:16:36



Date: 1.FEB.2021 10:26:05

Middle Channel / FullRB

N/A



Date: 1.FEB.2021 10:21:21

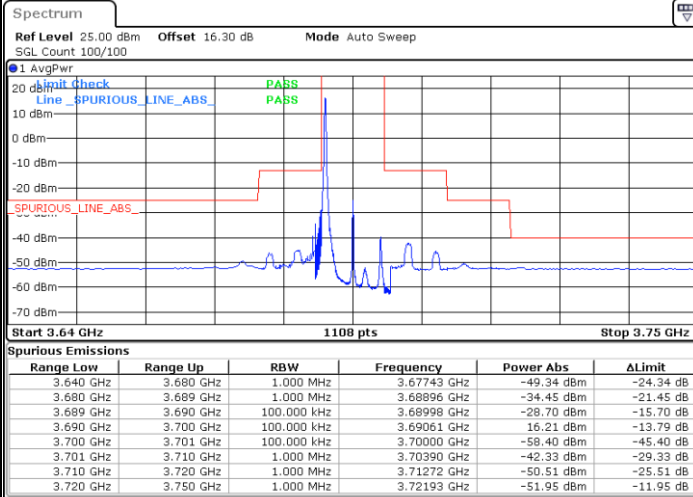


LTE Band 48 / 10MHz

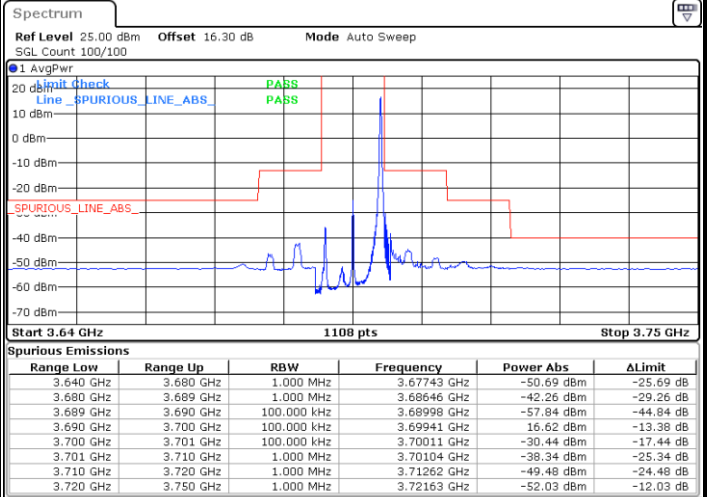
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



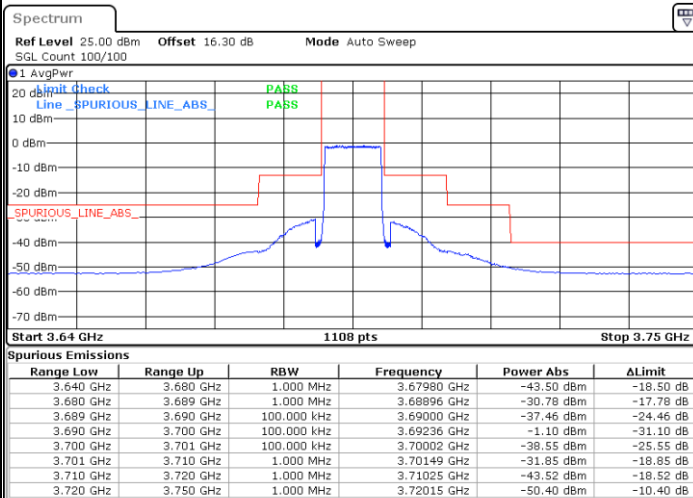
Date: 1.FEB.2021 10:17:07



Date: 1.FEB.2021 10:26:37

Highest Channel / FullIRB

N/A



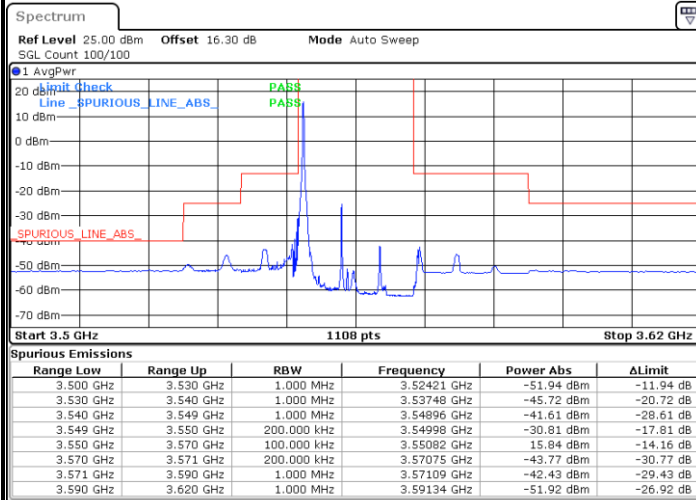
Date: 1.FEB.2021 10:21:52



LTE Band 48 / 15MHz

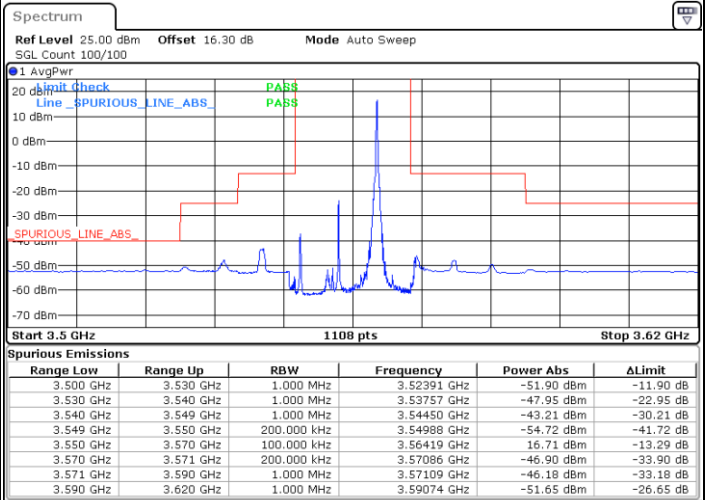
64QAM

Lowest Channel / 1RB0



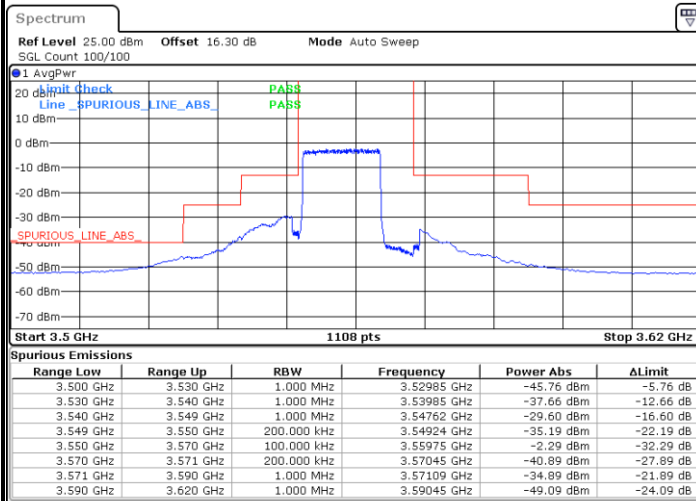
Date: 1.FEB.2021 10:29:17

Lowest Channel / 1RBmax



Date: 1.FEB.2021 10:38:47

Lowest Channel / FullIRB



Date: 1.FEB.2021 10:34:02

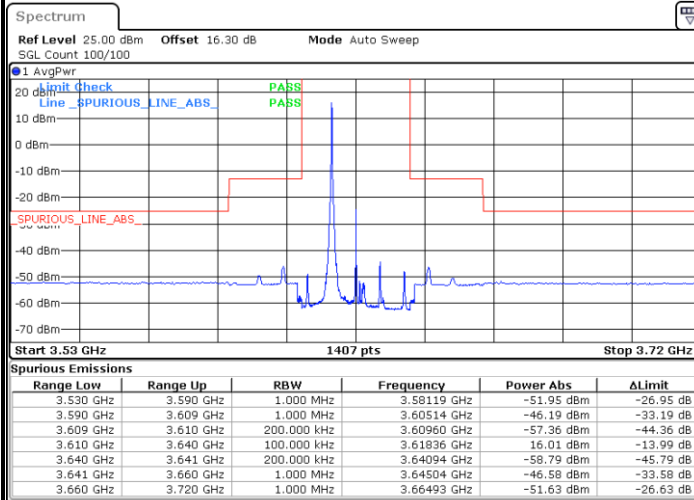
N/A



LTE Band 48 / 15MHz

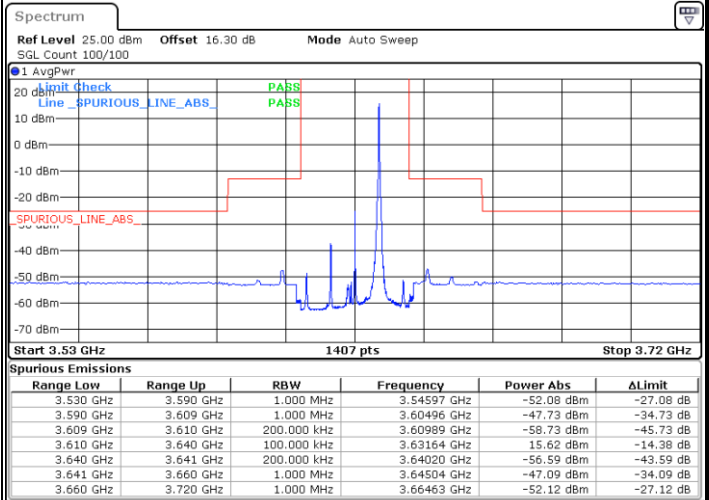
64QAM

Middle Channel / 1RB0



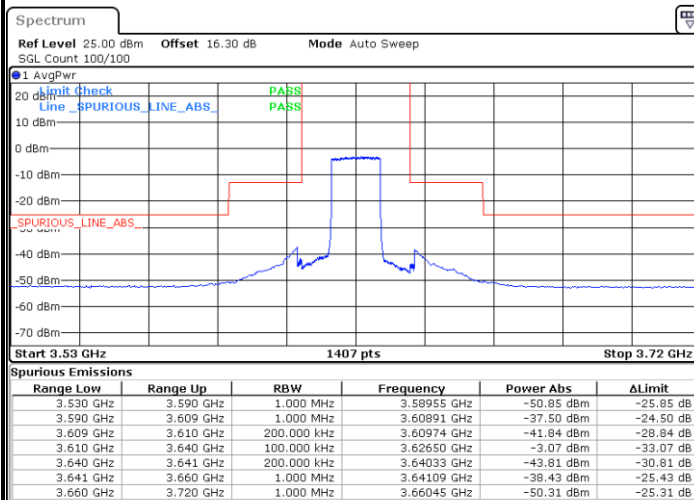
Date: 1.FEB.2021 10:29:48

Middle Channel / 1RBmax



Date: 1.FEB.2021 10:39:18

Middle Channel / FullRB



Date: 1.FEB.2021 10:34:33

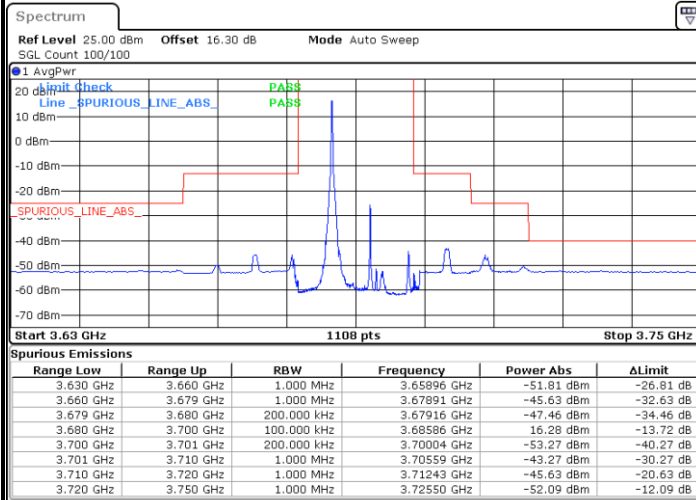
N/A



LTE Band 48 / 15MHz

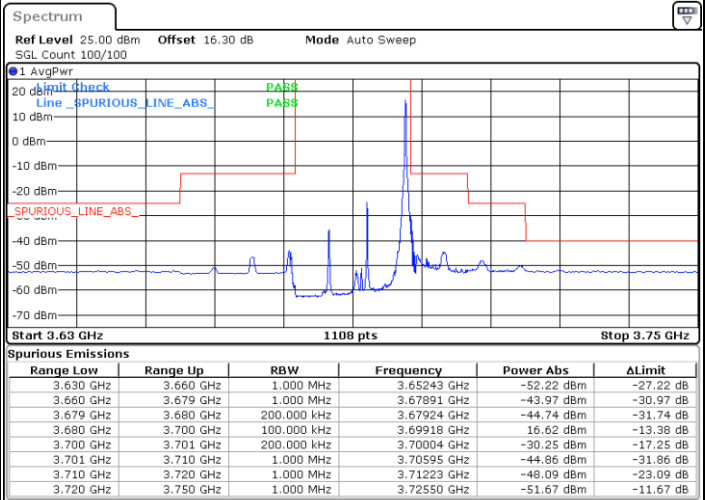
64QAM

Highest Channel / 1RB0



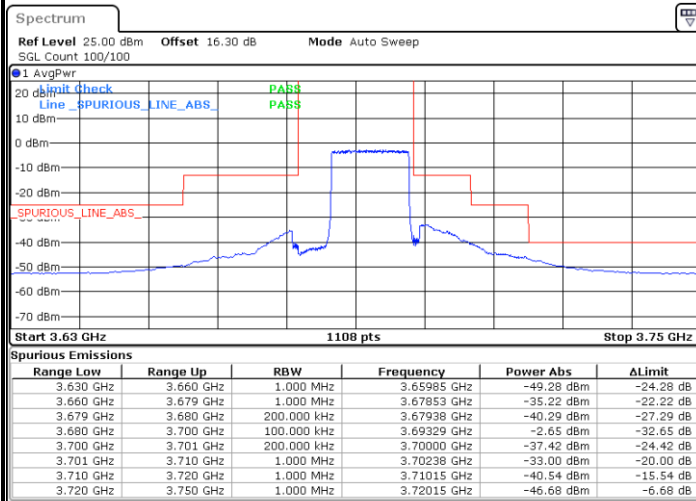
Date: 1.FEB.2021 10:32:26

Highest Channel / 1RBmax



Date: 1.FEB.2021 10:41:56

Highest Channel / FullIRB



Date: 1.FEB.2021 10:37:11

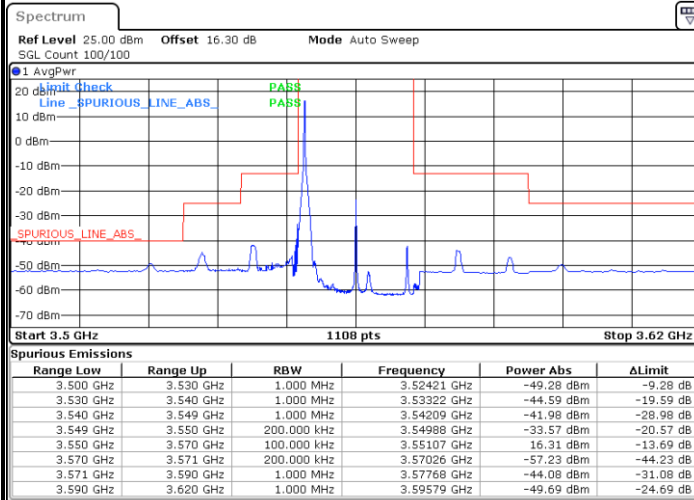
N/A



LTE Band 48 / 20MHz

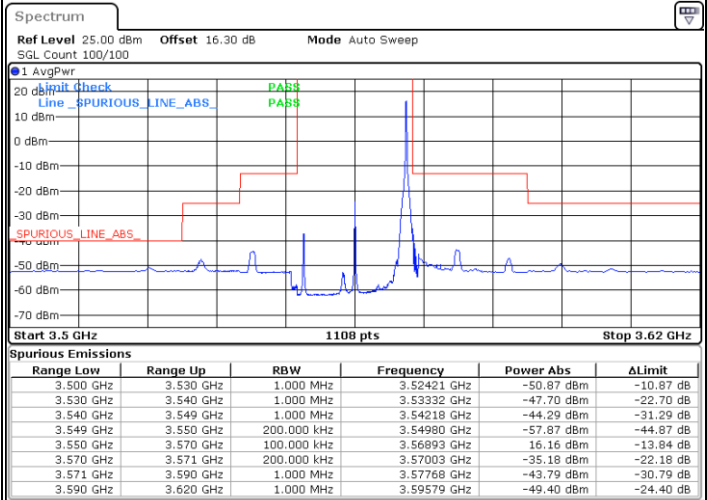
64QAM

Lowest Channel / 1RB0



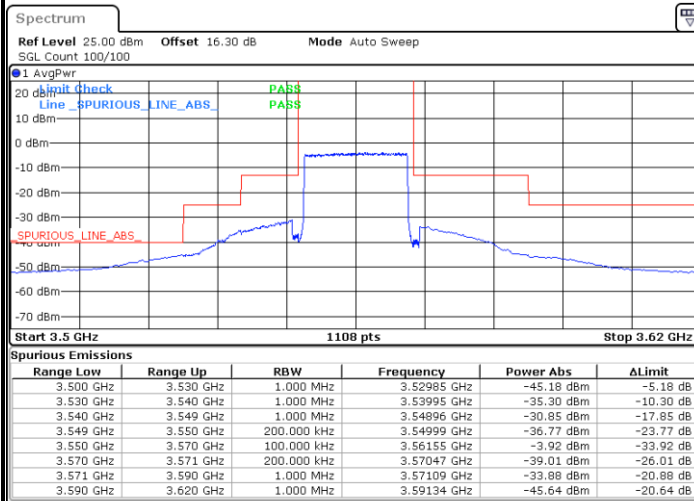
Date: 1.FEB.2021 10:47:15

Lowest Channel / 1RBmax



Date: 1.FEB.2021 10:52:01

Lowest Channel / FullIRB



Date: 1.FEB.2021 10:42:29

N/A

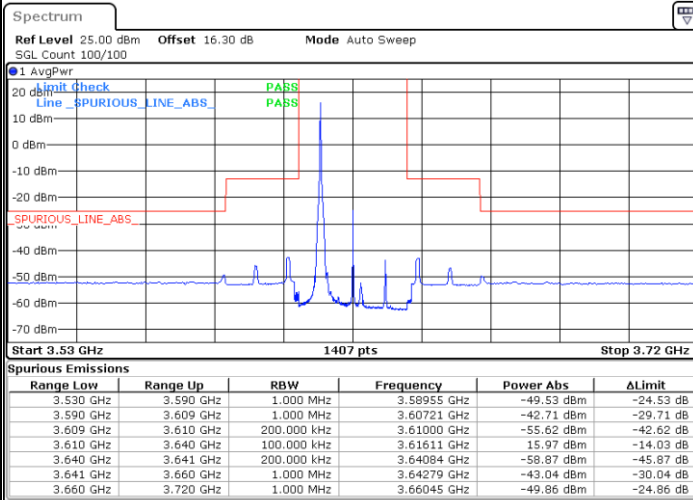


LTE Band 48 / 20MHz

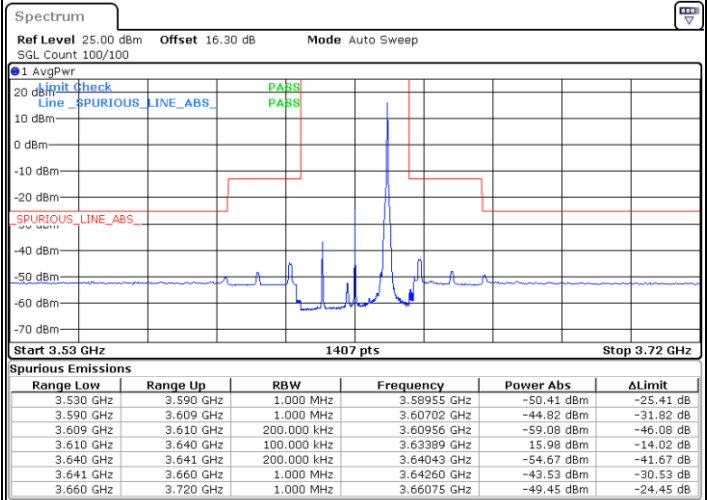
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



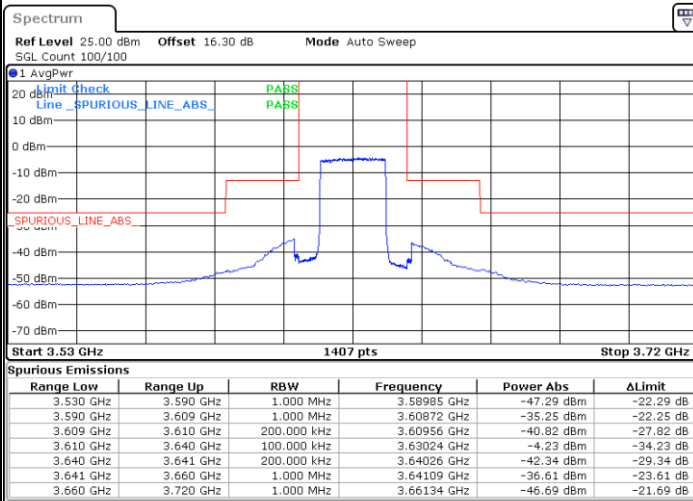
Date: 1.FEB.2021 10:49:54



Date: 1.FEB.2021 10:54:40

Middle Channel / FullRB

N/A



Date: 1.FEB.2021 10:45:08

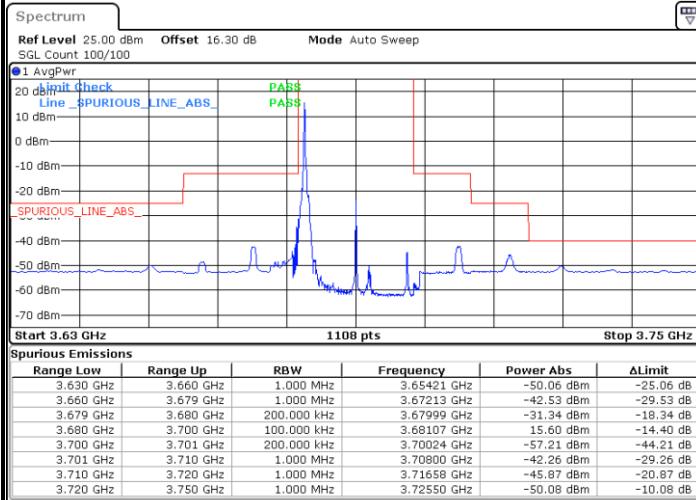


LTE Band 48 / 20MHz

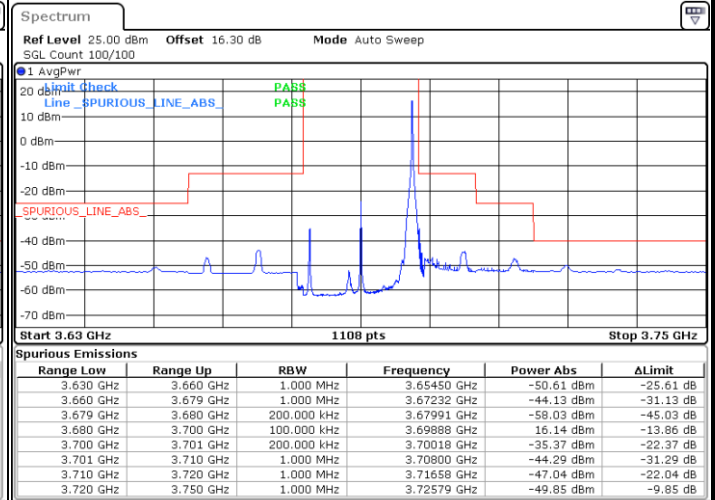
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



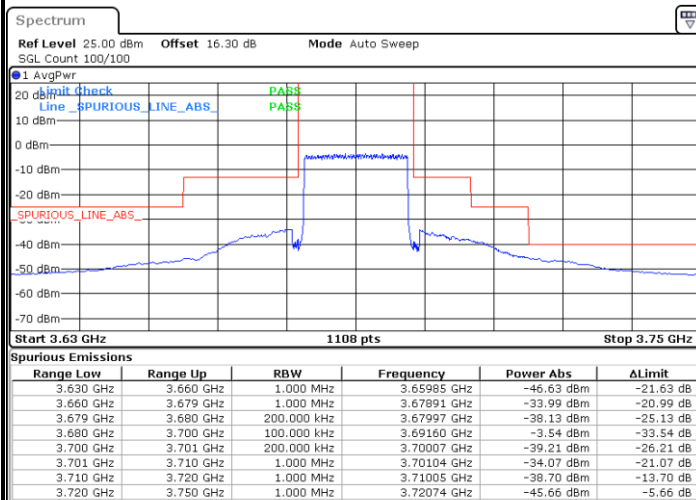
Date: 1.FEB.2021 10:50:25



Date: 1.FEB.2021 10:55:11

Highest Channel / FullIRB

N/A



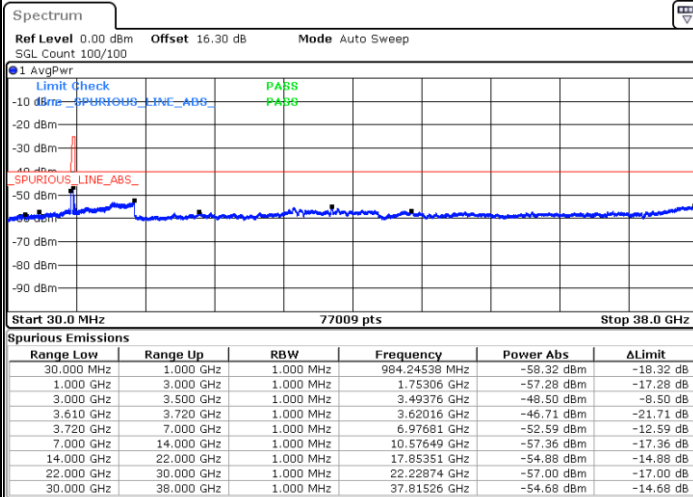
Date: 1.FEB.2021 10:45:39



Conducted Spurious Emission

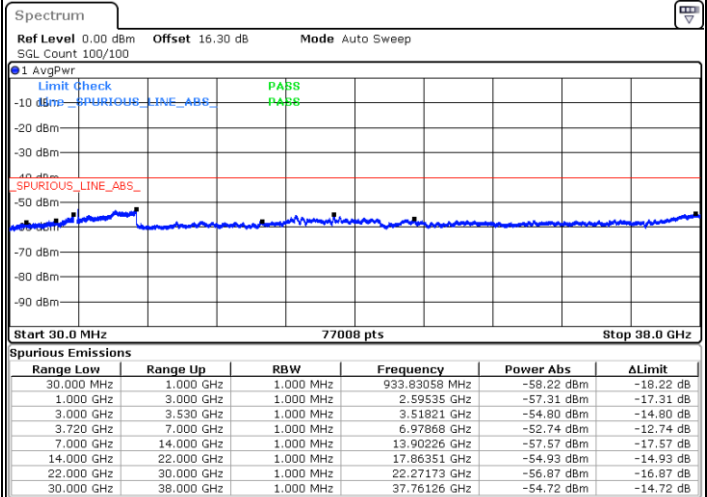
LTE Band 48 / 5MHz

Lowest Channel / QPSK



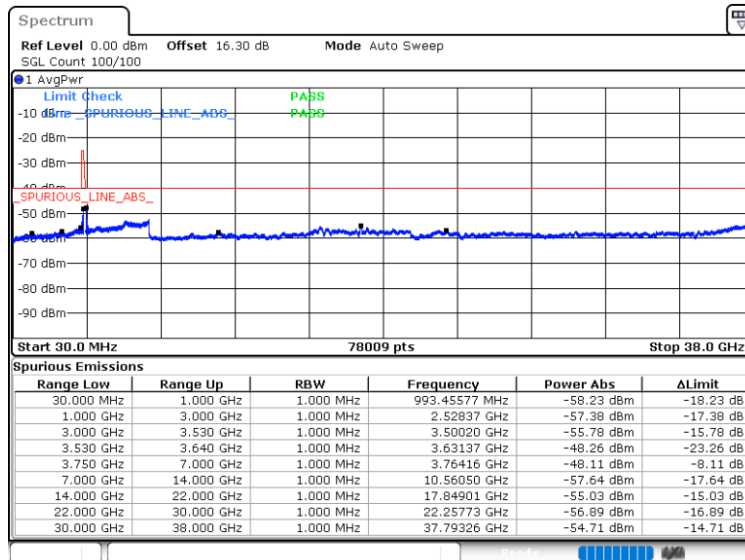
Date: 1.FEB.2021 10:57:18

Middle Channel / QPSK



Date: 1.FEB.2021 10:58:20

Highest Channel / QPSK

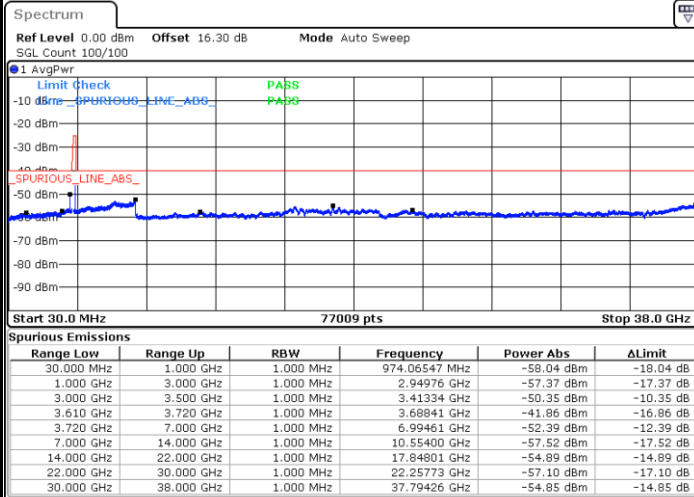


Date: 1.FEB.2021 10:59:23



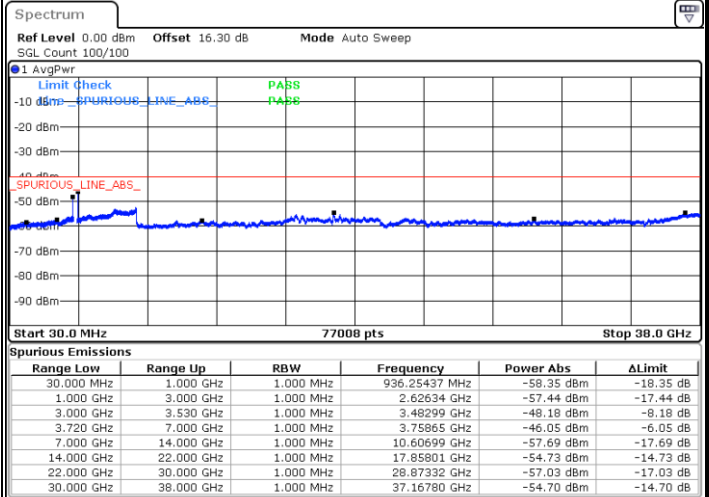
LTE Band 48 / 10MHz

Lowest Channel / QPSK



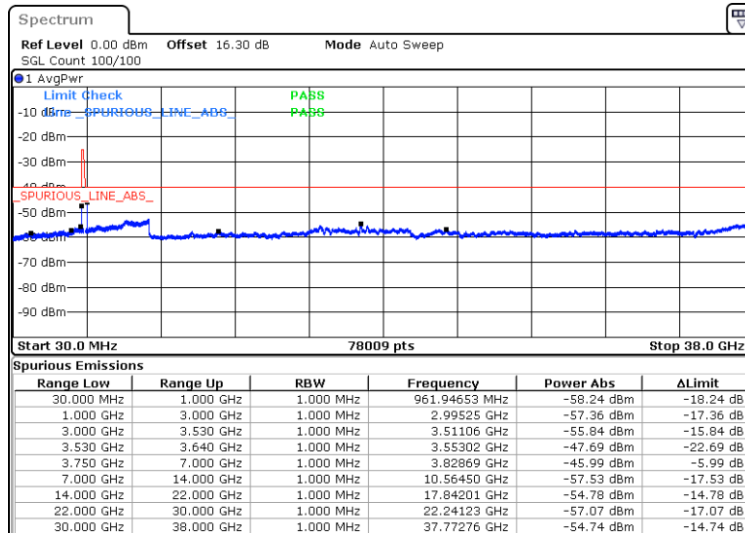
Date: 1.FEB.2021 11:00:26

Middle Channel / QPSK



Date: 1.FEB.2021 11:01:29

Highest Channel / QPSK

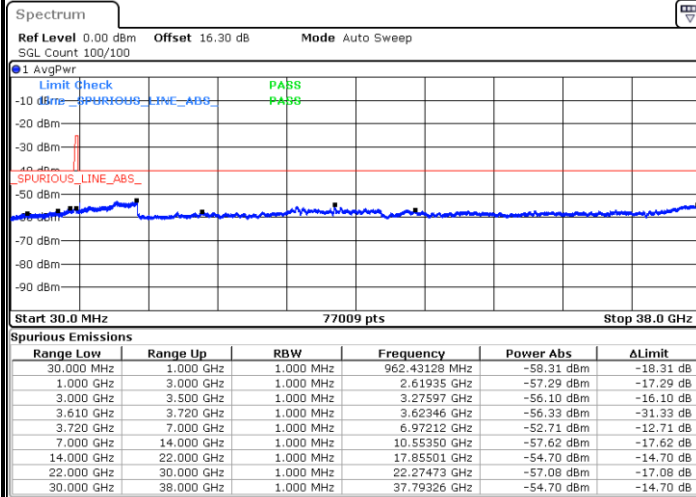


Date: 1.FEB.2021 11:02:32



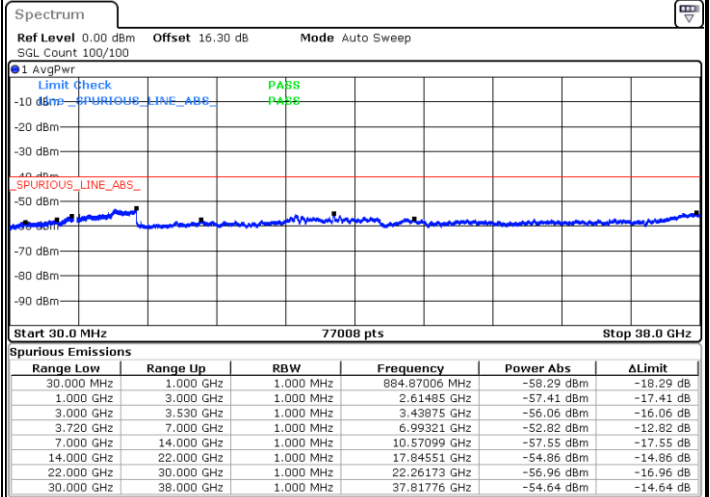
LTE Band 48 / 15MHz

Lowest Channel / QPSK



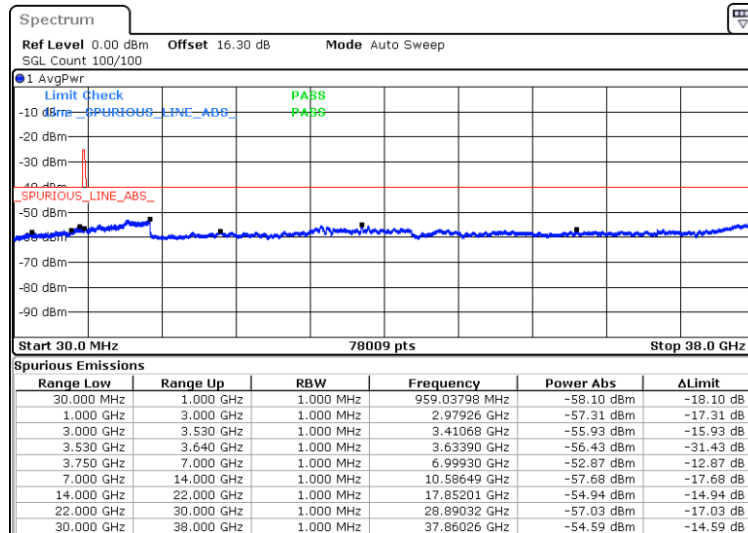
Date: 1.FEB.2021 11:03:35

Middle Channel / QPSK



Date: 1.FEB.2021 11:04:37

Highest Channel / QPSK

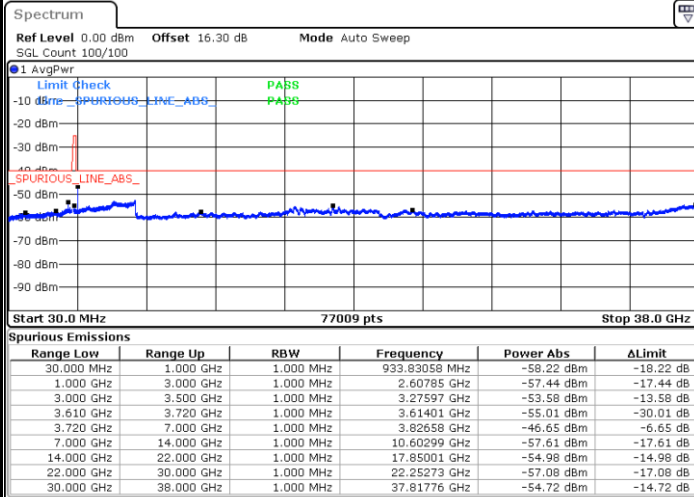


Date: 1.FEB.2021 11:05:40



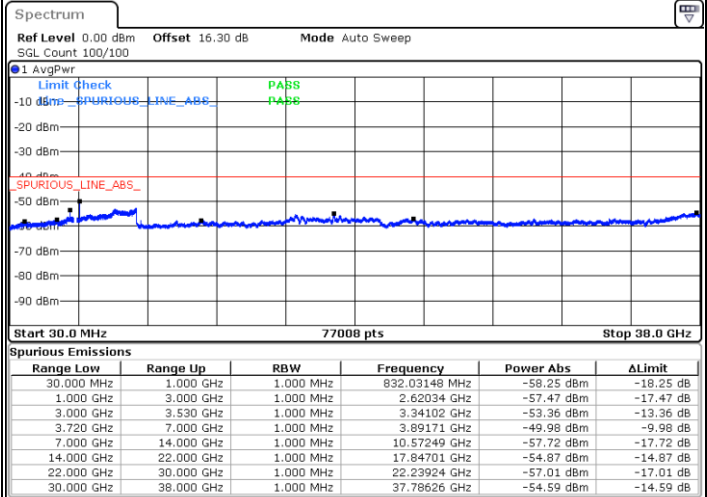
LTE Band 48 / 20MHz

Lowest Channel / QPSK



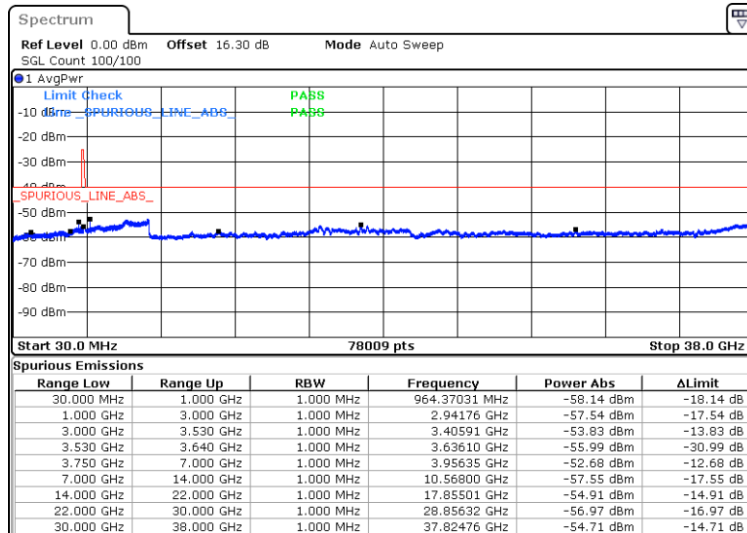
Date: 1.FEB.2021 11:06:43

Middle Channel / QPSK



Date: 1.FEB.2021 11:07:46

Highest Channel / QPSK



Date: 1.FEB.2021 11:08:48

Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0019	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0034	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

LTE Band 48

LTE Band 48 / 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)
Lowest	7100	-53.36	-40	-13.36	-49.1	-63.33	1.77	11.74	H
	10655	-58.58	-40	-18.58	-55.96	-67.01	2.47	10.90	H
	14205	-55.09	-40	-15.09	-57.57	-63.93	2.87	11.71	H
	21360	-53.56	-40	-13.56	-74.04	-70.30	1.96	18.70	H
	24857	-51.07	-40	-11.07	-76.22	-67.08	2.07	18.07	H
	28408	-50.33	-40	-10.33	-75.95	-67.57	2.32	19.56	H
	7100	-51.86	-40	-11.86	-47.21	-61.83	1.77	11.74	V
	10655	-58.85	-40	-18.85	-55.97	-67.28	2.47	10.90	V
	14205	-55.39	-40	-15.39	-57.59	-64.23	2.87	11.71	V
	21360	-54.82	-40	-14.82	-75.2	-71.56	1.96	18.70	V
	24857	-50.81	-40	-10.81	-77.17	-66.82	2.07	18.07	V
	28408	-48.48	-40	-8.48	-75.92	-65.72	2.32	19.56	V
Middle	7230	-55.75	-40	-15.75	-51.64	-65.44	1.84	11.53	H
	10850	-57.53	-40	-17.53	-55.19	-65.86	2.57	10.90	H
	14462	-55.11	-40	-15.11	-57.39	-63.35	2.85	11.09	H
	18080	-54.32	-40	-14.32	-70.69	-70.55	1.76	17.98	H
	21696	-53.97	-40	-13.97	-74.25	-70.76	1.99	18.78	H
	25312	-51.62	-40	-11.62	-77.13	-68.22	2.14	18.74	H
	7230	-56.38	-40	-16.38	-52.01	-66.07	1.84	11.53	V
	10850	-57.60	-40	-17.60	-55.05	-65.93	2.57	10.90	V
	14462	-56.41	-40	-16.41	-57.87	-64.65	2.85	11.09	V
	18080	-55.53	-40	-15.53	-70.97	-71.76	1.76	17.98	V
	21696	-55.01	-40	-15.01	-75.28	-71.80	1.99	18.78	V
	25312	-50.81	-40	-10.81	-77.58	-67.41	2.14	18.74	V



Highest	7360	-52.38	-40	-12.38	-48.12	-61.79	1.91	11.32	H
	11045	-58.16	-40	-18.16	-56.2	-66.48	2.63	10.95	H
	14724	-54.35	-40	-14.35	-57.72	-63.15	2.91	11.72	H
	18405	-55.81	-40	-15.81	-73.03	-71.86	1.87	17.92	H
	22086	-55.27	-40	-15.27	-76.19	-72.06	2.08	18.87	H
	25767	-51.29	-40	-11.29	-77.32	-68.31	2.03	19.05	H
	7360	-56.31	-40	-16.31	-51.86	-65.72	1.91	11.32	V
	11045	-57.98	-40	-17.98	-55.85	-66.30	2.63	10.95	V
	14724	-56.31	-40	-16.31	-58.01	-65.11	2.91	11.72	V
	18405	-56.63	-40	-16.63	-72.97	-72.68	1.87	17.92	V
	22086	-55.21	-40	-15.21	-76.13	-72.00	2.08	18.87	V
	25767	-50.38	-40	-10.38	-77.6	-67.40	2.03	19.05	V

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