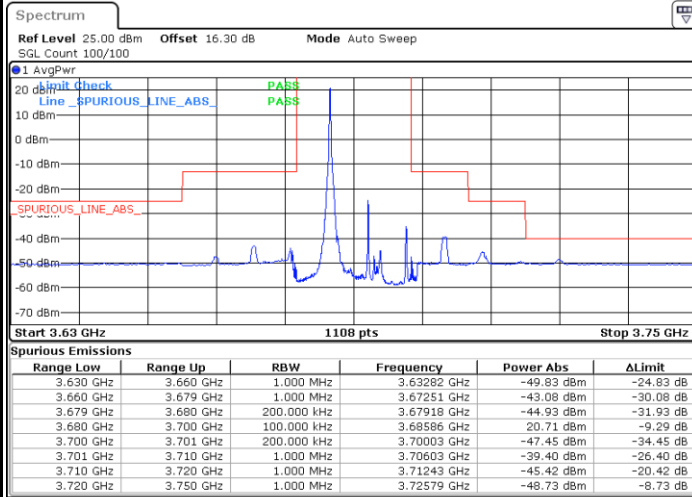




LTE Band 48 / 15MHz

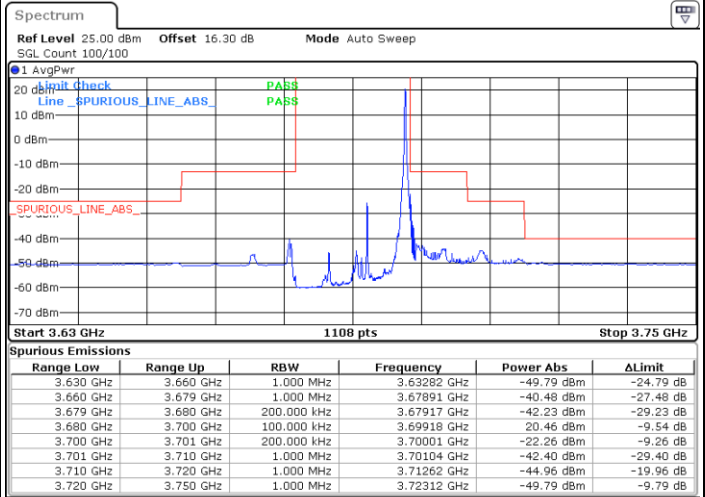
16QAM

Highest Channel / 1RB0



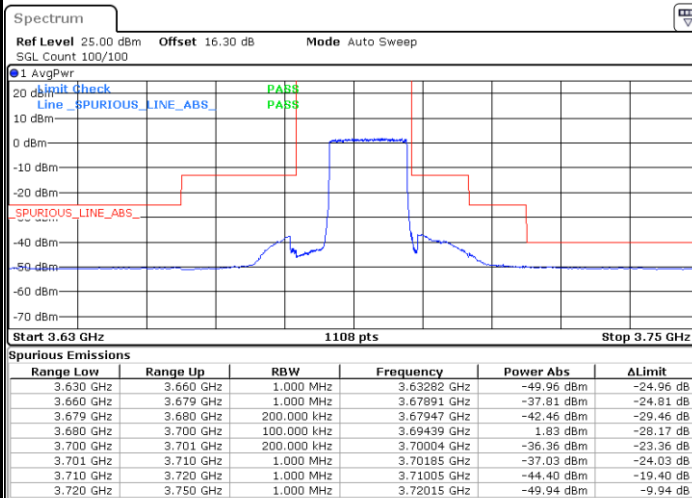
Date: 26.JUL.2022 19:34:46

Highest Channel / 1RBmax



Date: 26.JUL.2022 19:53:20

Highest Channel / FullIRB



Date: 26.JUL.2022 19:44:03

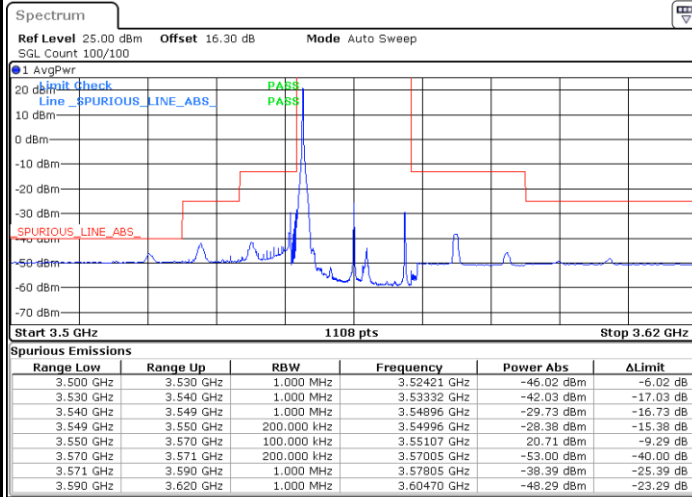
N/A



LTE Band 48 / 20MHz

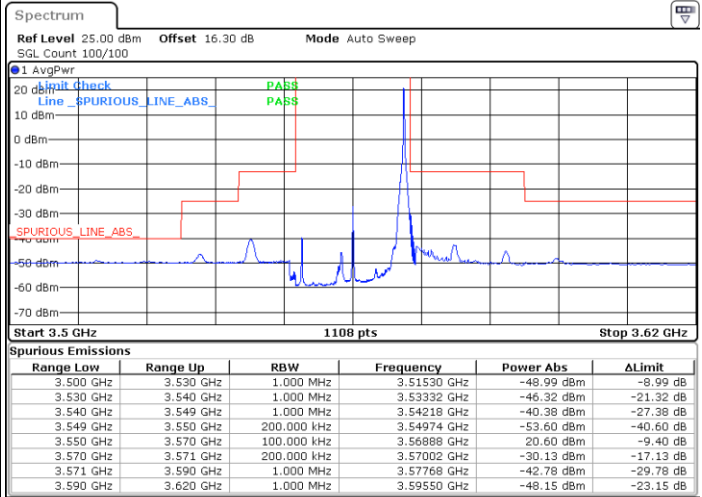
16QAM

Lowest Channel / 1RB0



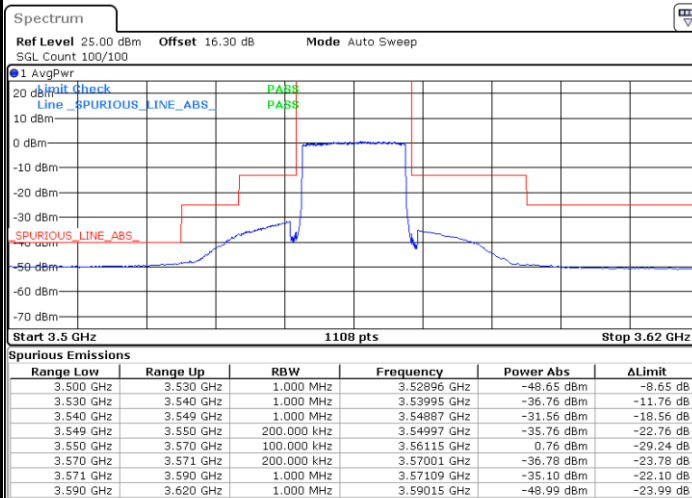
Date: 26.JUL.2022 20:27:20

Lowest Channel / 1RBmax



Date: 26.JUL.2022 20:36:34

Lowest Channel / FullRB



Date: 26.JUL.2022 20:18:05

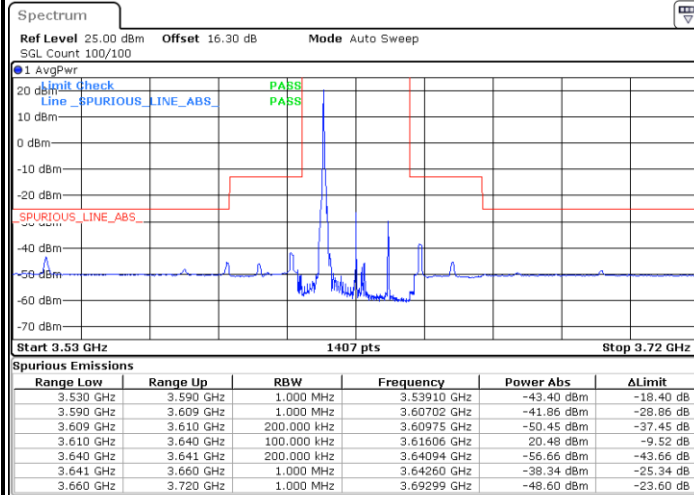
N/A



LTE Band 48 / 20MHz

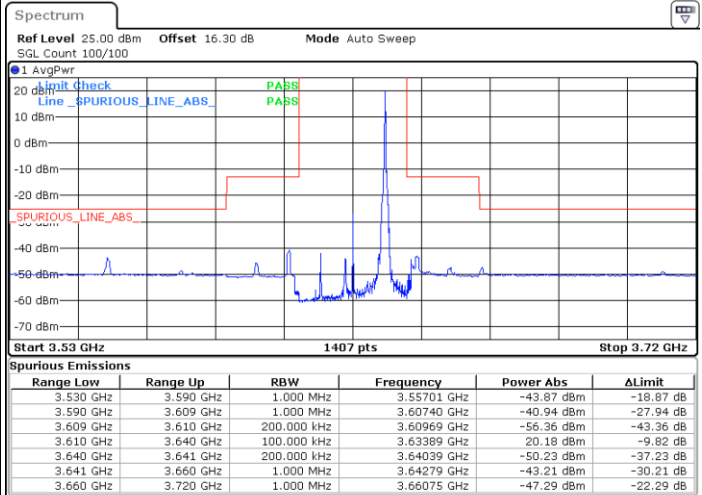
16QAM

Middle Channel / 1RB0



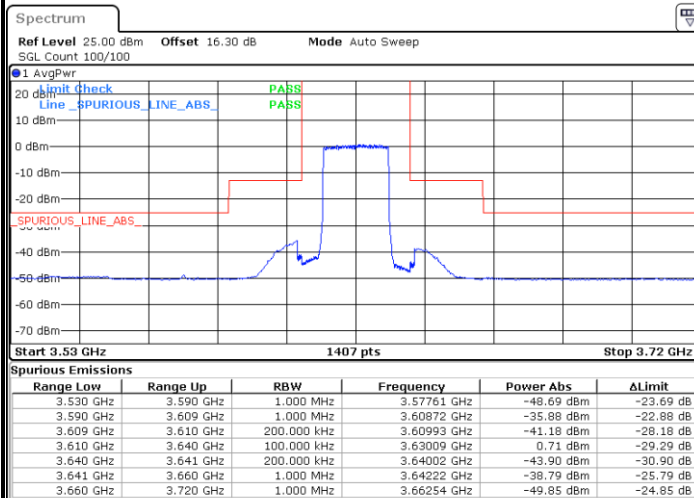
Date: 26.JUL.2022 20:30:24

Middle Channel / 1RBmax



Date: 26.JUL.2022 20:39:38

Middle Channel / FullRB



Date: 26.JUL.2022 20:21:10

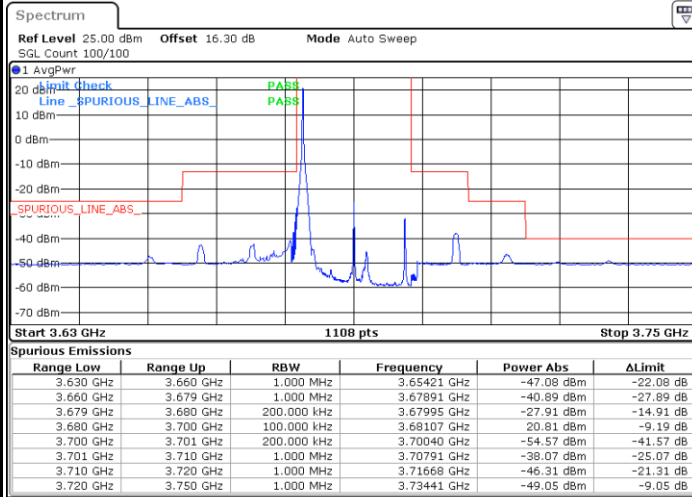
N/A



LTE Band 48 / 20MHz

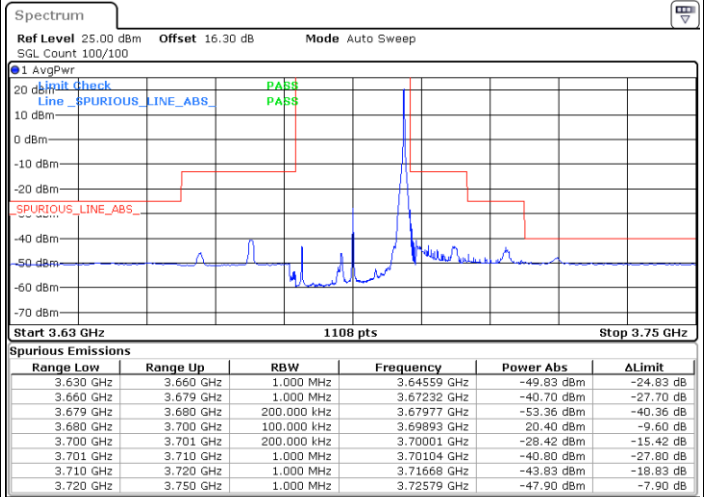
16QAM

Highest Channel / 1RB0



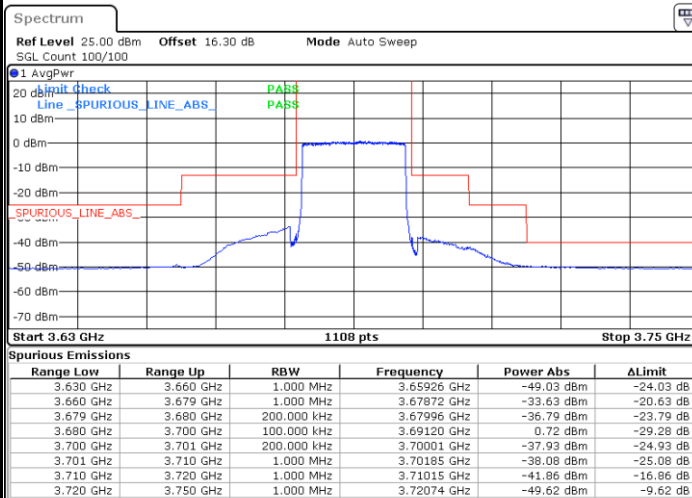
Date: 26.JUL.2022 20:33:27

Highest Channel / 1RBmax



Date: 26.JUL.2022 20:42:40

Highest Channel / FullIRB



Date: 26.JUL.2022 20:24:12

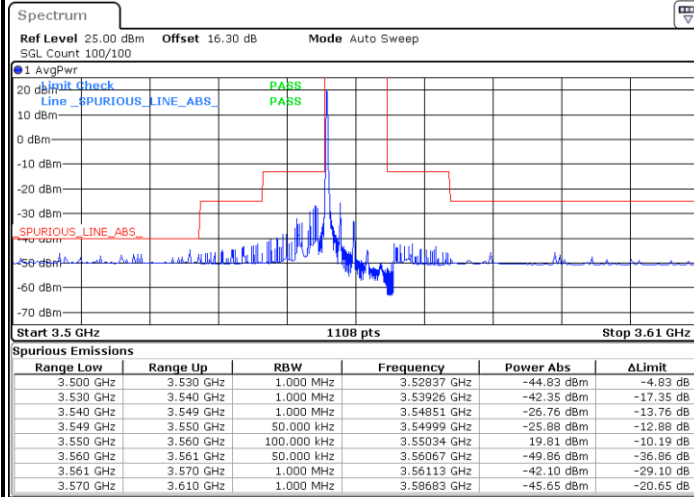
N/A



LTE Band 48 / 5MHz

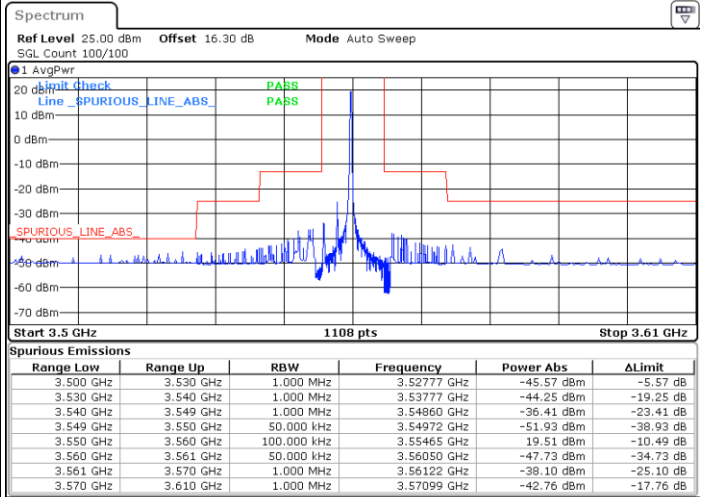
64QAM

Lowest Channel / 1RB0



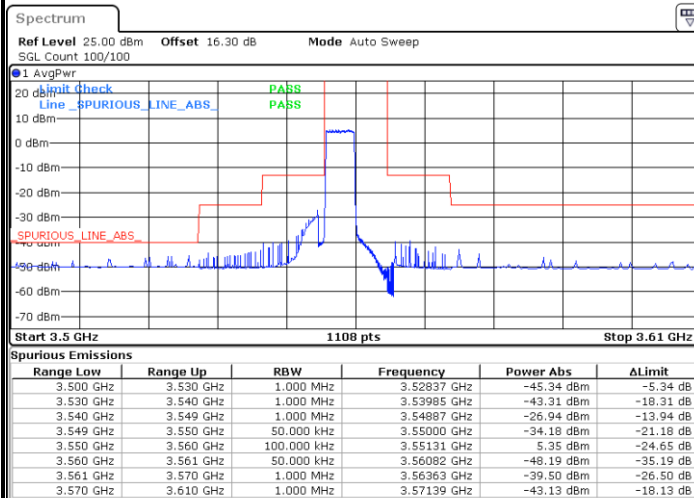
Date: 26.JUL.2022 17:50:59

Lowest Channel / 1RBmax



Date: 26.JUL.2022 18:09:24

Lowest Channel / FullIRB



Date: 26.JUL.2022 18:00:12

N/A

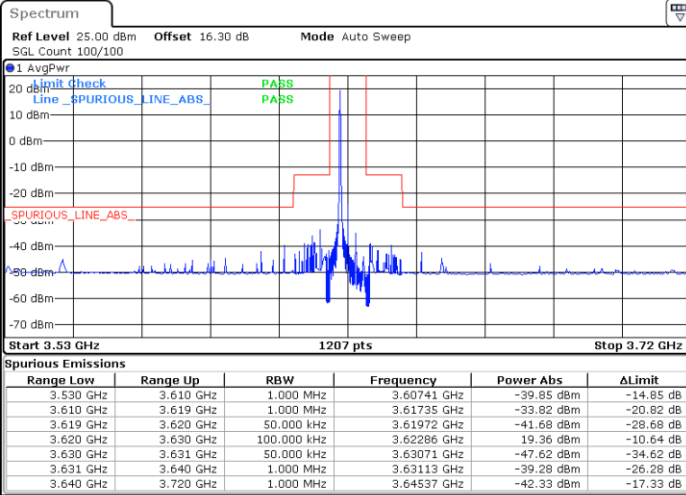


LTE Band 48 / 5MHz

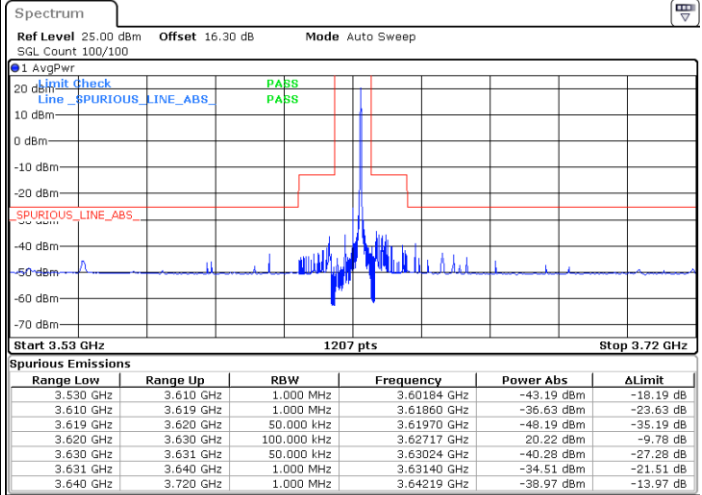
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



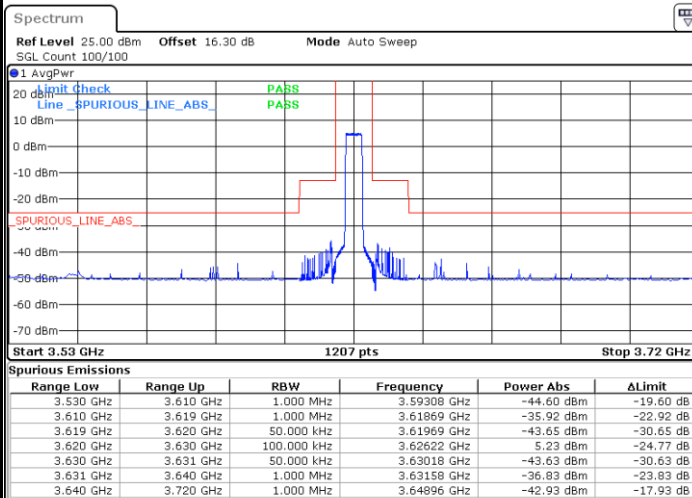
Date: 26.JUL.2022 17:52:01



Date: 26.JUL.2022 18:10:26

Middle Channel / FullRB

N/A



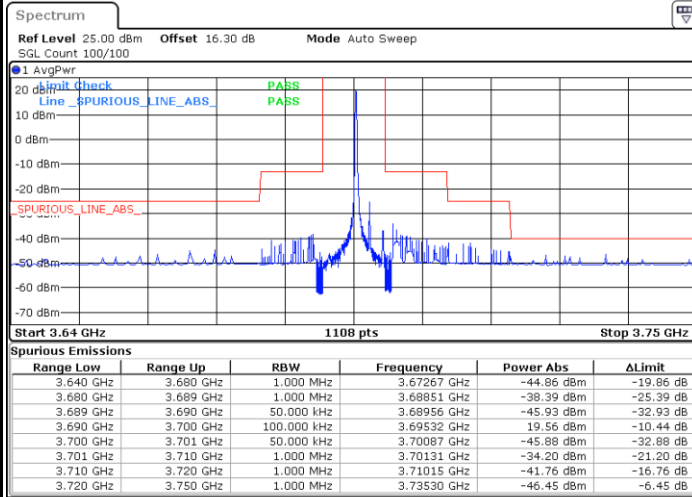
Date: 26.JUL.2022 18:01:14



LTE Band 48 / 5MHz

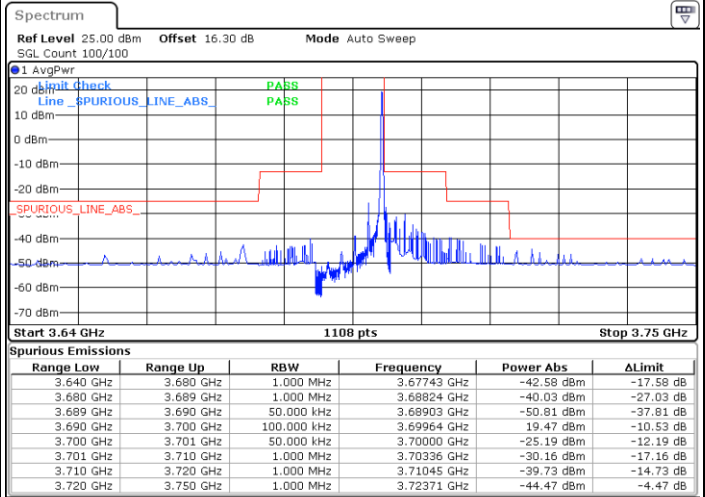
64QAM

Highest Channel / 1RB0



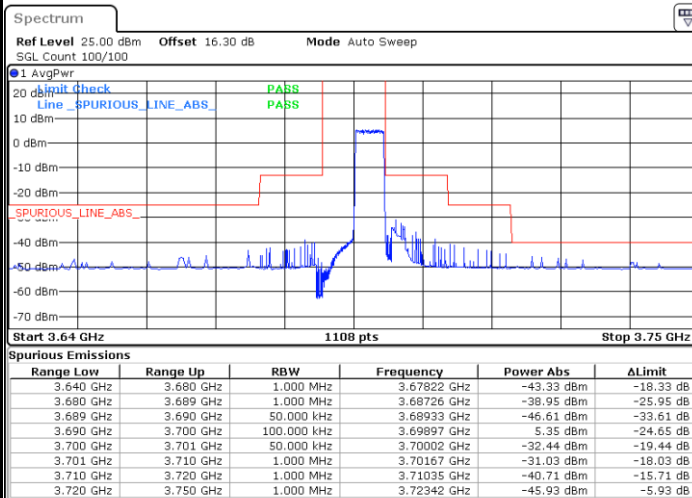
Date: 26.JUL.2022 17:57:06

Highest Channel / 1RBmax



Date: 26.JUL.2022 18:15:32

Highest Channel / FullIRB



Date: 26.JUL.2022 18:06:19

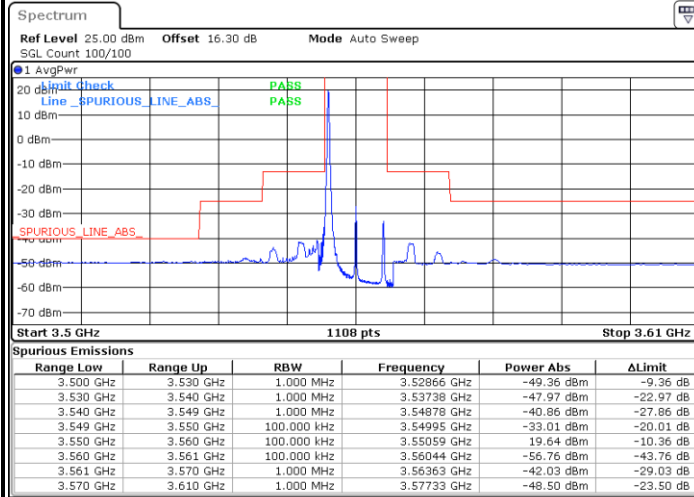
N/A



LTE Band 48 / 10MHz

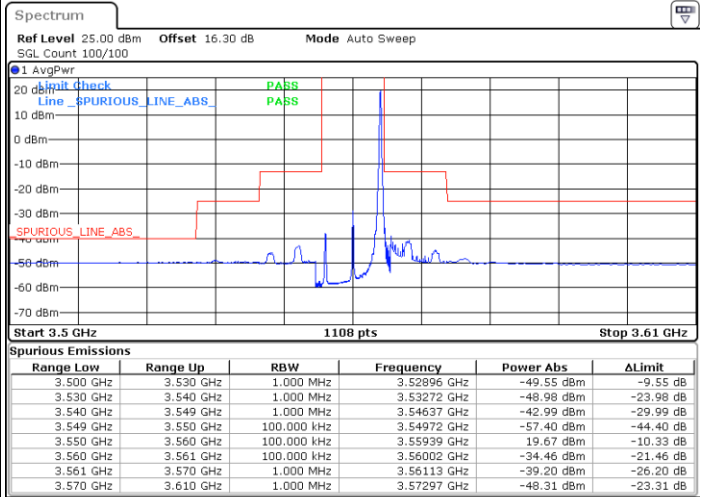
64QAM

Lowest Channel / 1RB0



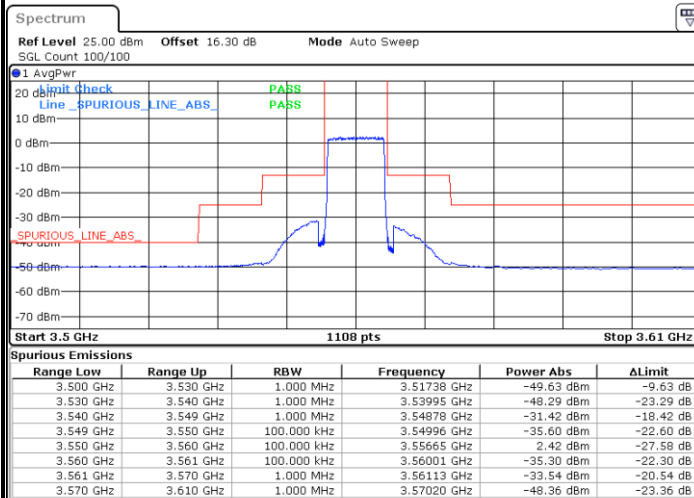
Date: 26.JUL.2022 18:37:50

Lowest Channel / 1RBmax



Date: 26.JUL.2022 18:56:30

Lowest Channel / FullRB



Date: 26.JUL.2022 18:47:11

N/A

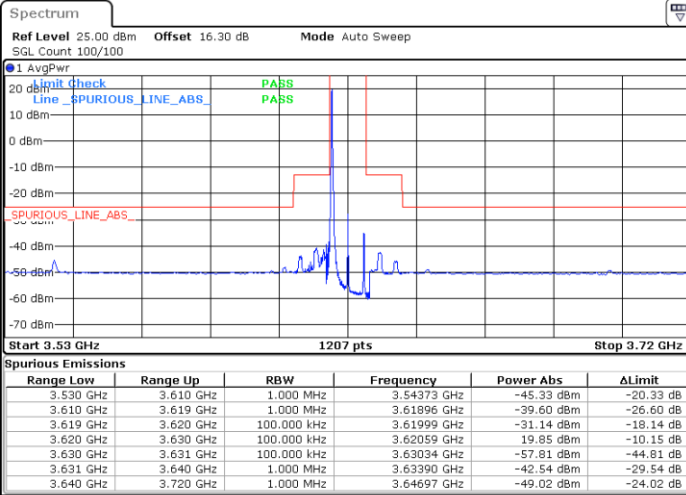


LTE Band 48 / 10MHz

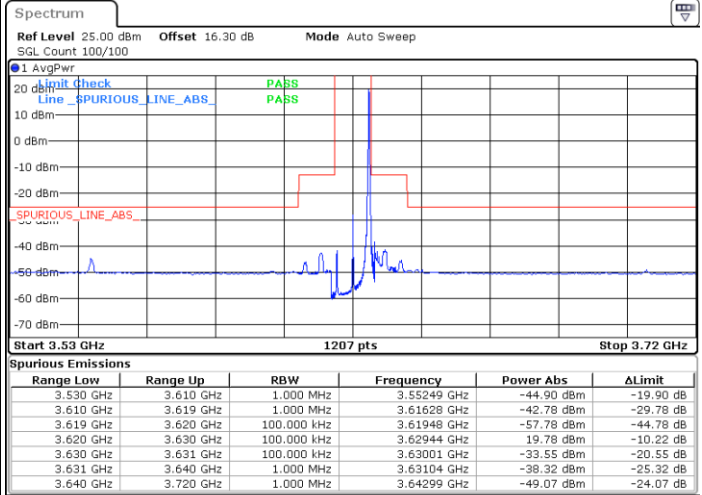
64QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



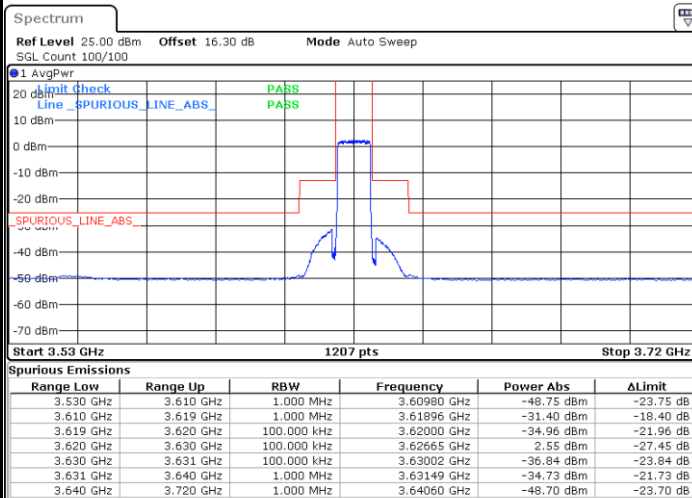
Date: 26.JUL.2022 18:42:59



Date: 26.JUL.2022 19:01:40

Middle Channel / FullRB

N/A



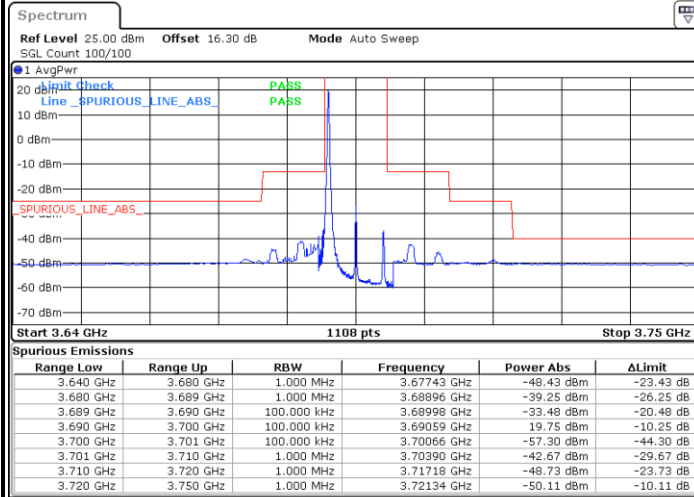
Date: 26.JUL.2022 18:52:20



LTE Band 48 / 10MHz

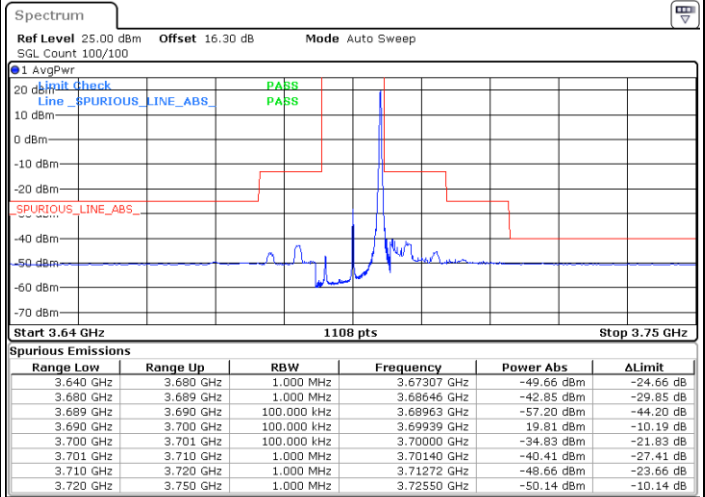
64QAM

Highest Channel / 1RB0



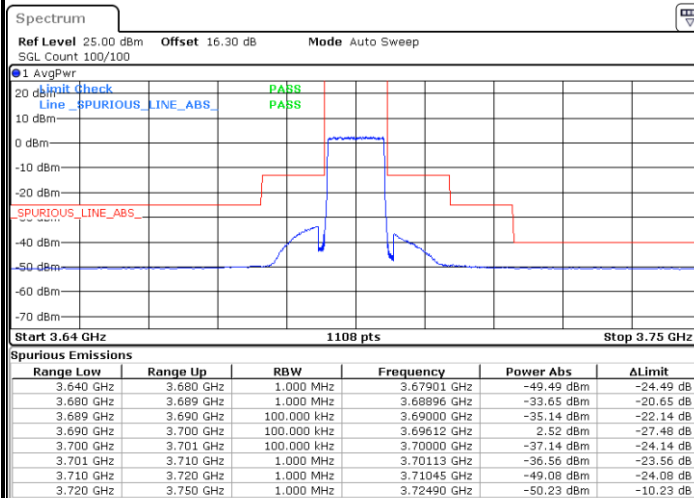
Date: 26.JUL.2022 18:44:01

Highest Channel / 1RBmax



Date: 26.JUL.2022 19:02:41

Highest Channel / FullIRB



Date: 26.JUL.2022 18:53:21

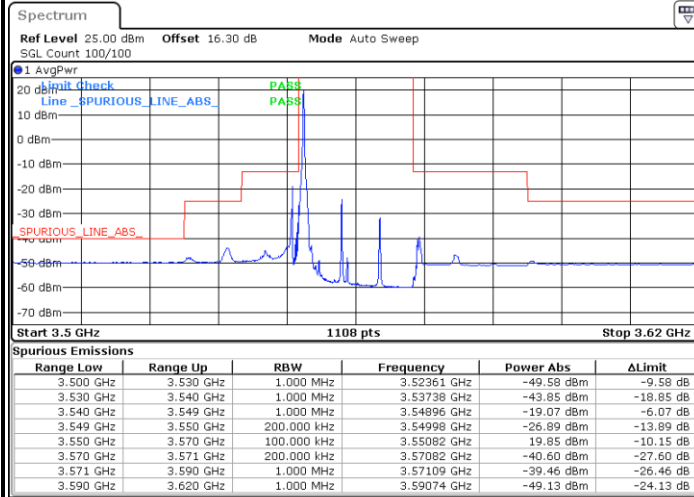
N/A



LTE Band 48 / 15MHz

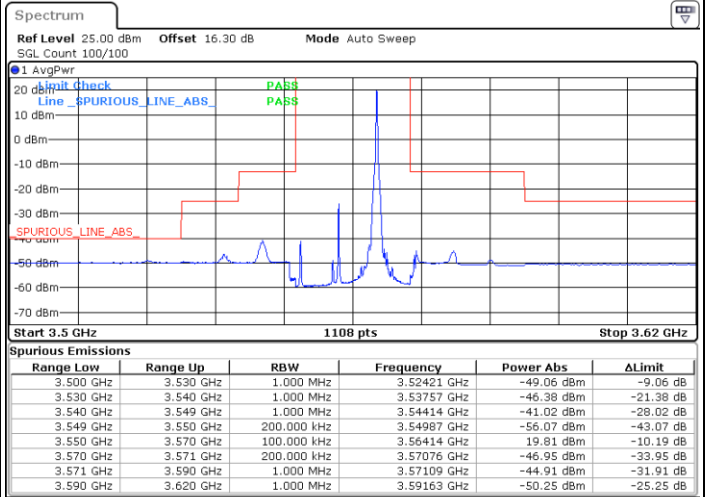
64QAM

Lowest Channel / 1RB0



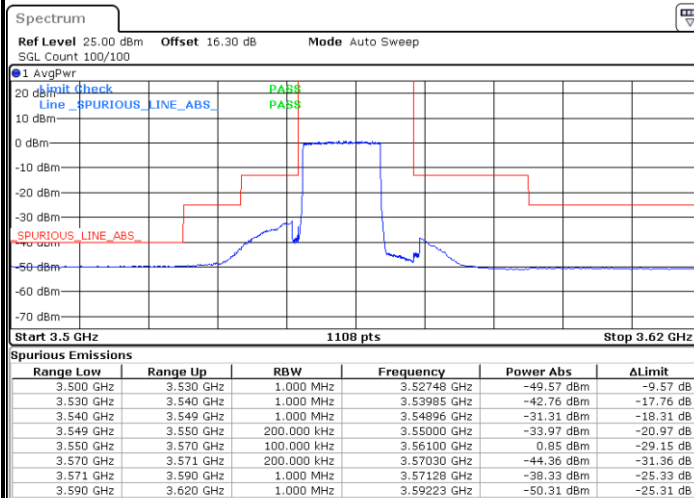
Date: 26.JUL.2022 19:29:39

Lowest Channel / 1RBmax



Date: 26.JUL.2022 19:48:13

Lowest Channel / FullRB



Date: 26.JUL.2022 19:38:56

N/A

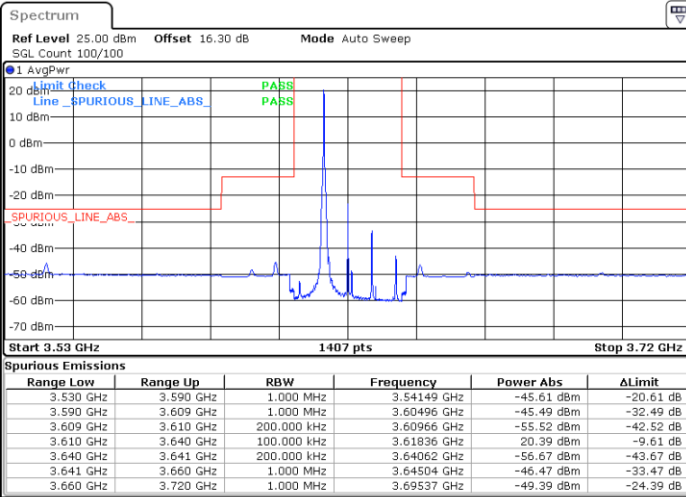


LTE Band 48 / 15MHz

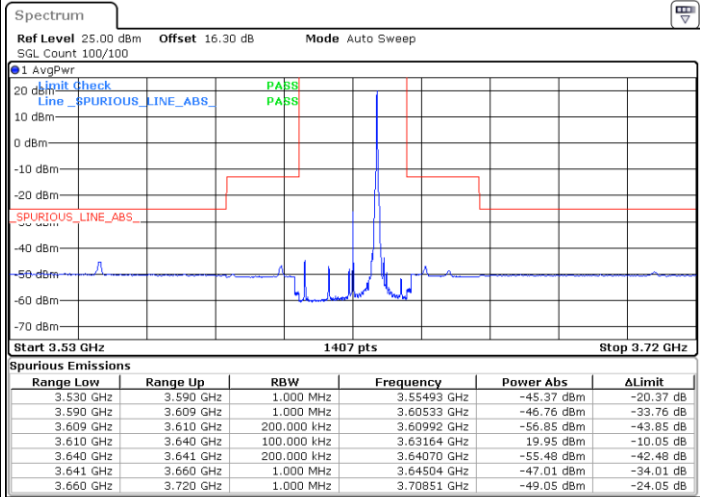
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



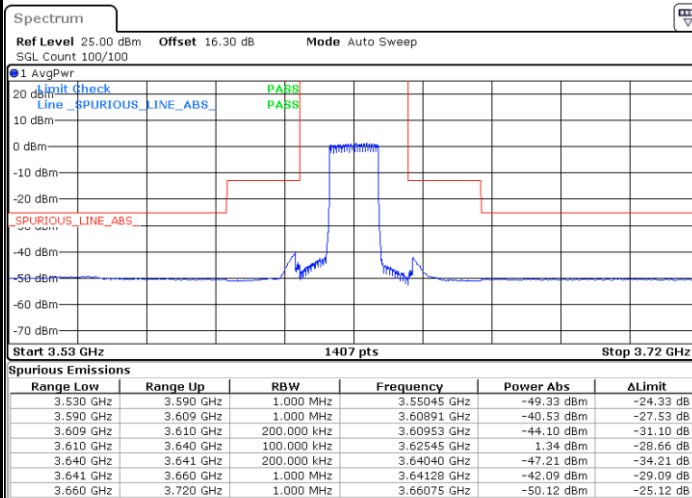
Date: 26.JUL.2022 19:30:41



Date: 26.JUL.2022 19:49:15

Middle Channel / FullRB

N/A



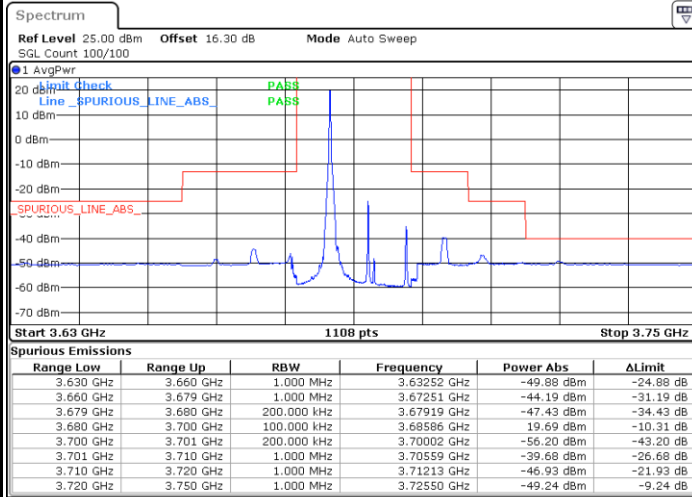
Date: 26.JUL.2022 19:39:57



LTE Band 48 / 15MHz

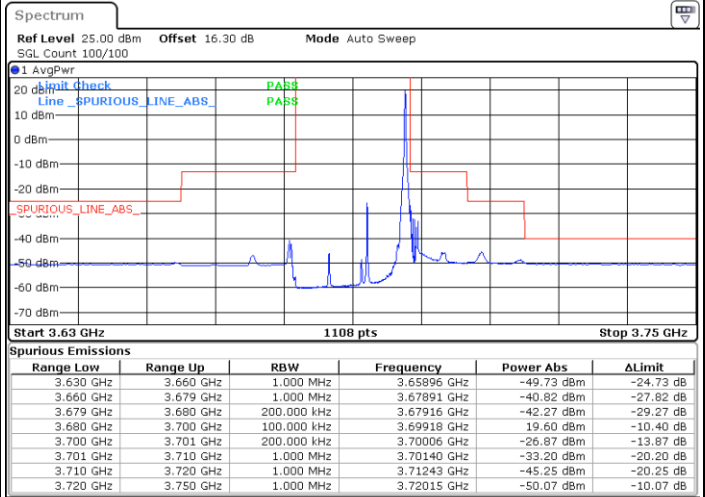
64QAM

Highest Channel / 1RB0



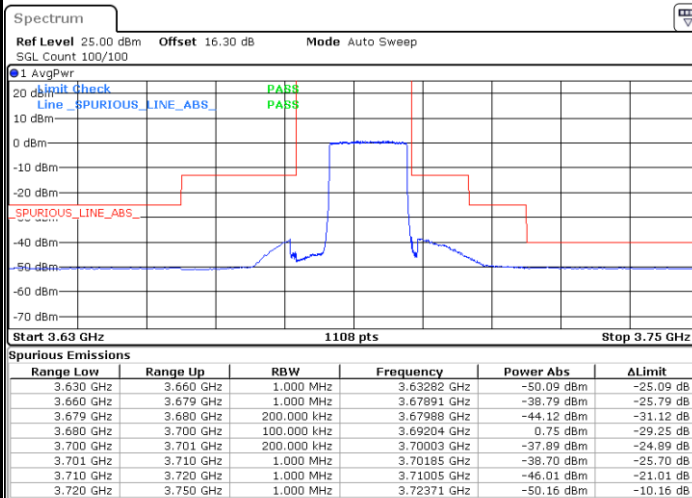
Date: 26.JUL.2022 19:35:49

Highest Channel / 1RBmax



Date: 26.JUL.2022 19:54:23

Highest Channel / FullIRB



Date: 26.JUL.2022 19:45:07

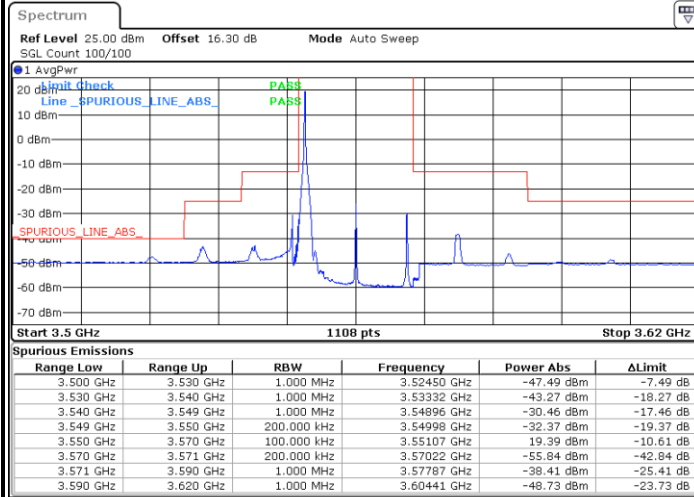
N/A



LTE Band 48 / 20MHz

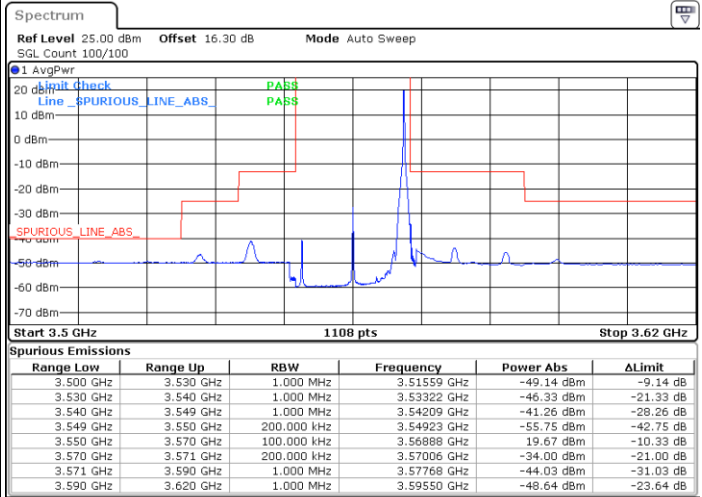
64QAM

Lowest Channel / 1RB0



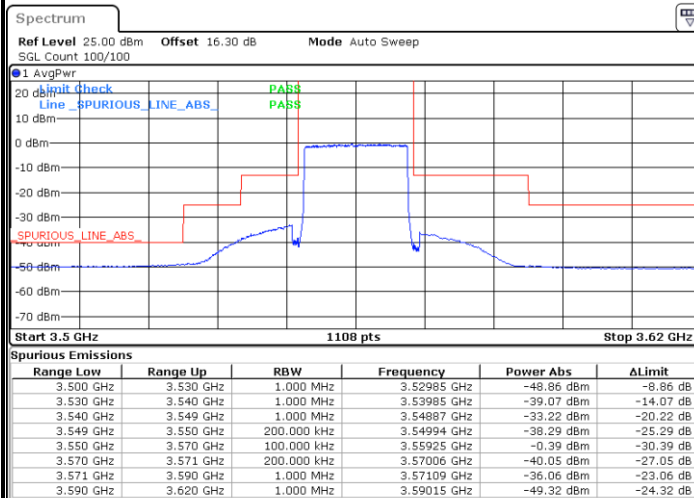
Date: 26.JUL.2022 20:26:17

Lowest Channel / 1RBmax



Date: 26.JUL.2022 20:35:32

Lowest Channel / FullRB



Date: 26.JUL.2022 20:17:03

N/A

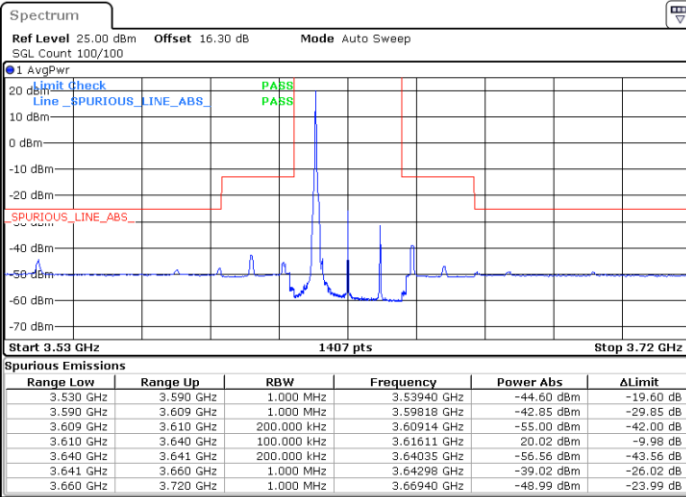


LTE Band 48 / 20MHz

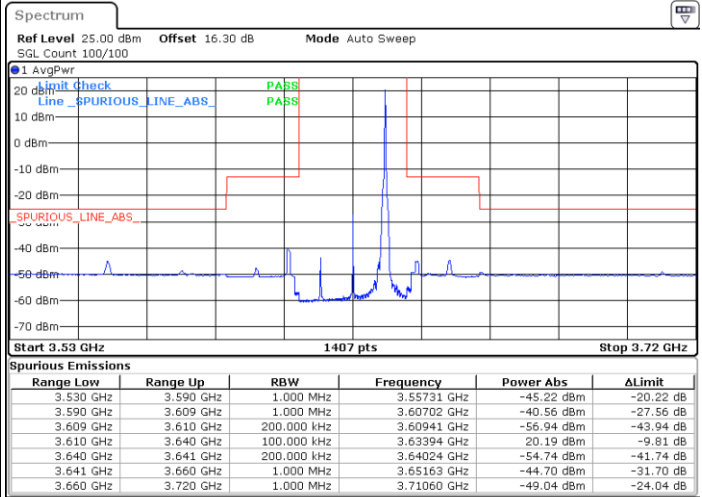
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



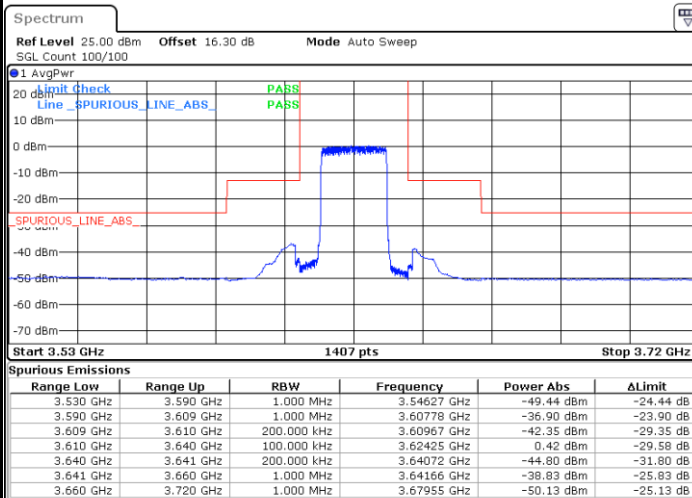
Date: 26.JUL.2022 20:31:24



Date: 26.JUL.2022 20:40:38

Middle Channel / FullRB

N/A



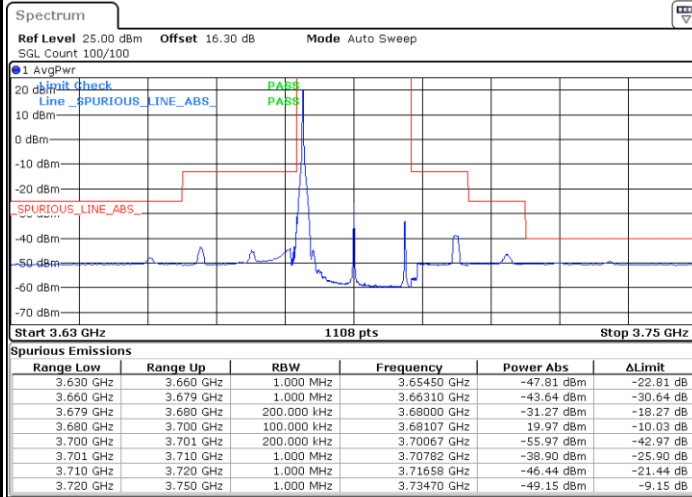
Date: 26.JUL.2022 20:22:10



LTE Band 48 / 20MHz

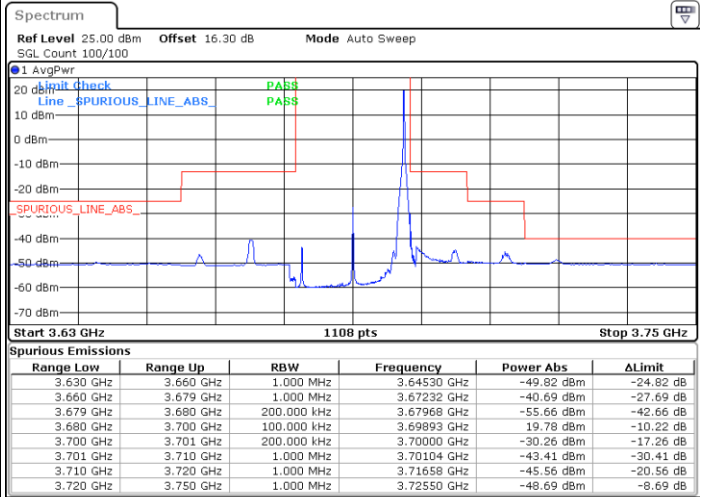
64QAM

Highest Channel / 1RB0



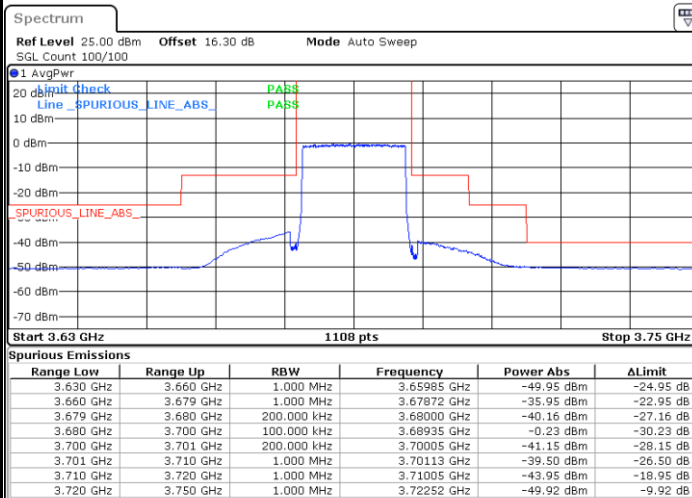
Date: 26.JUL.2022 20:32:25

Highest Channel / 1RBmax



Date: 26.JUL.2022 20:41:39

Highest Channel / FullIRB



Date: 26.JUL.2022 20:23:10

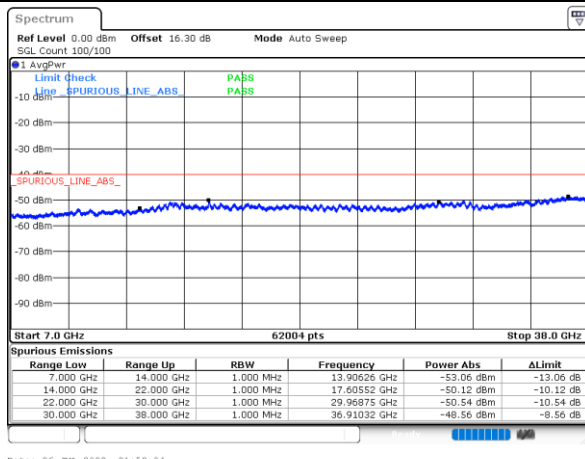
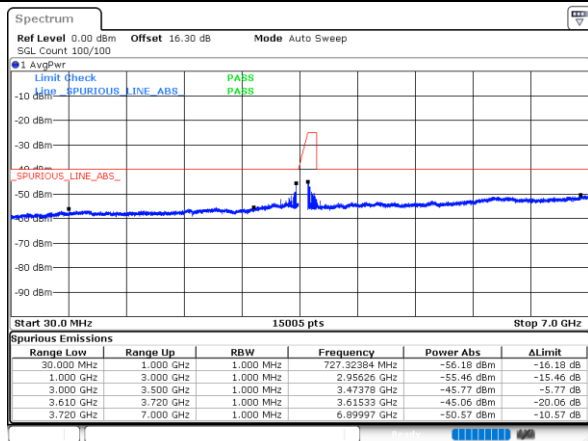
N/A



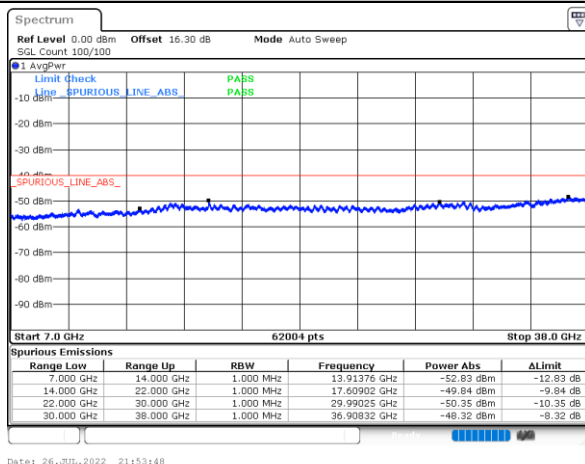
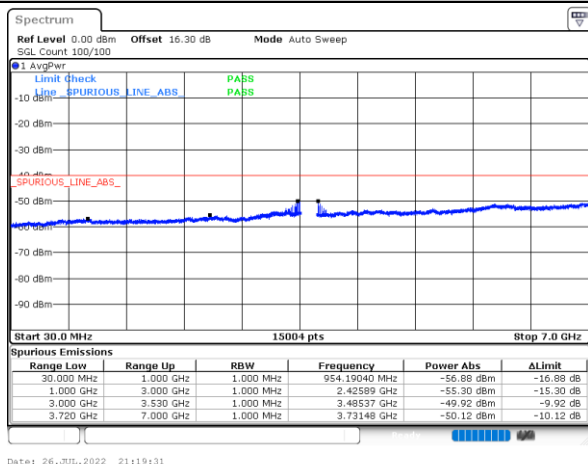
Conducted Spurious Emission

LTE Band 48 / 5MHz

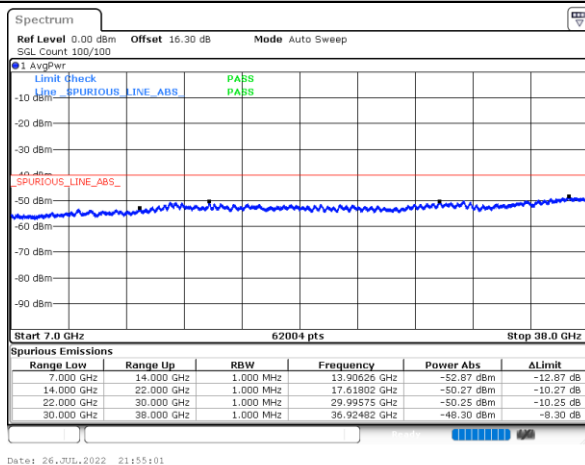
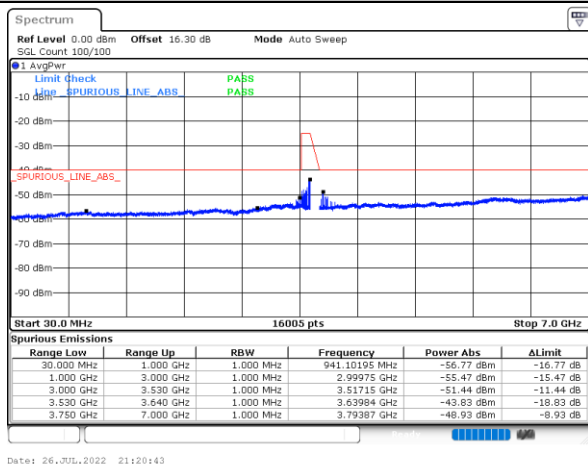
Lowest Channel / QPSK



Middle Channel / QPSK



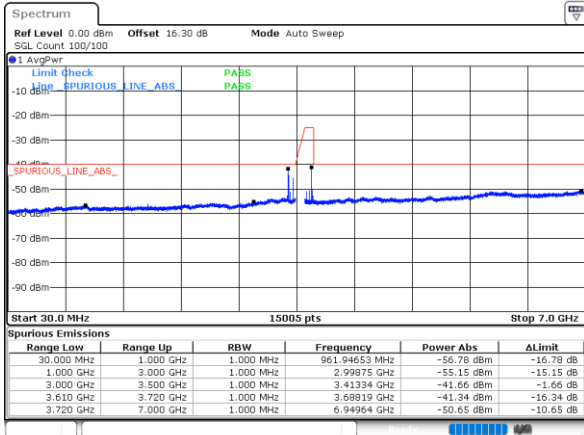
Highest Channel / QPSK



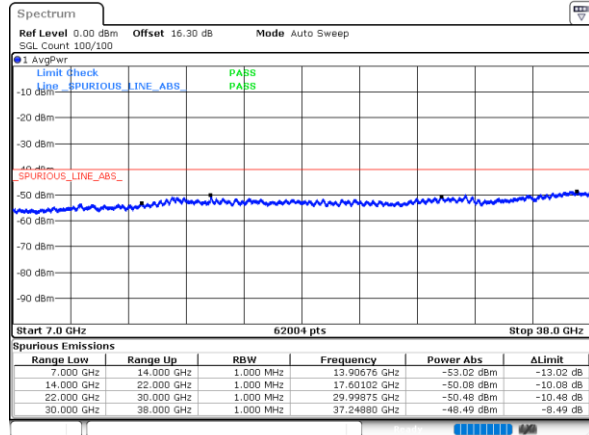


LTE Band 48 / 10MHz

Lowest Channel / QPSK

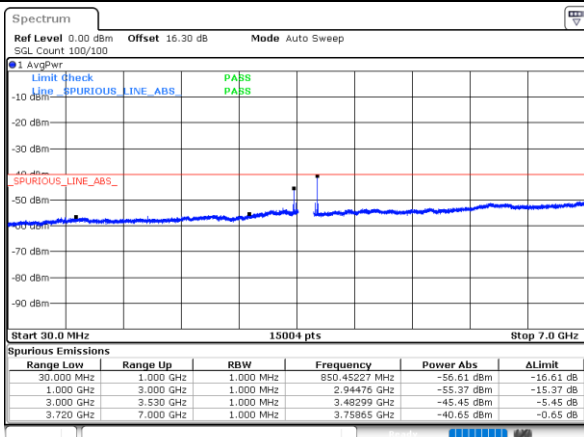


Date: 26.JUL.2022 21:22:01

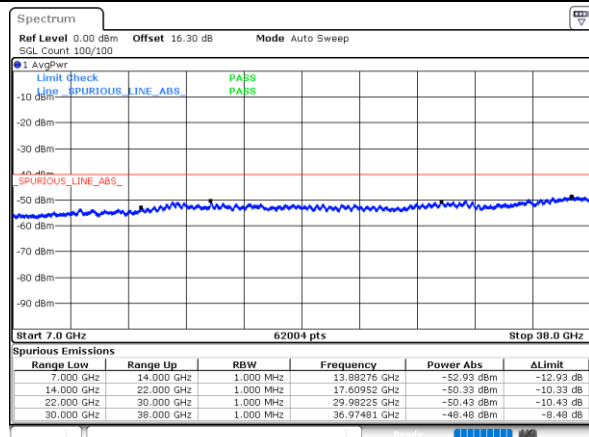


Date: 26.JUL.2022 21:56:19

Middle Channel / QPSK

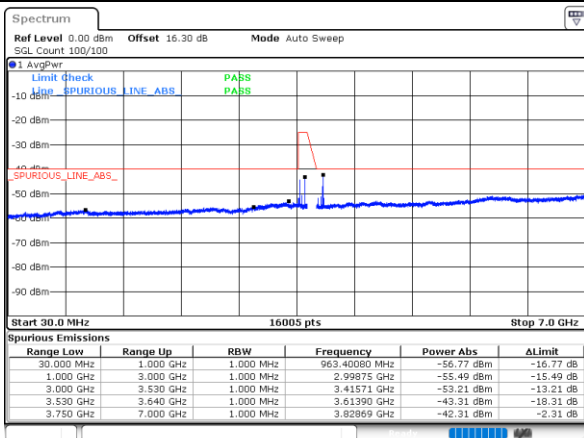


Date: 26.JUL.2022 21:23:15

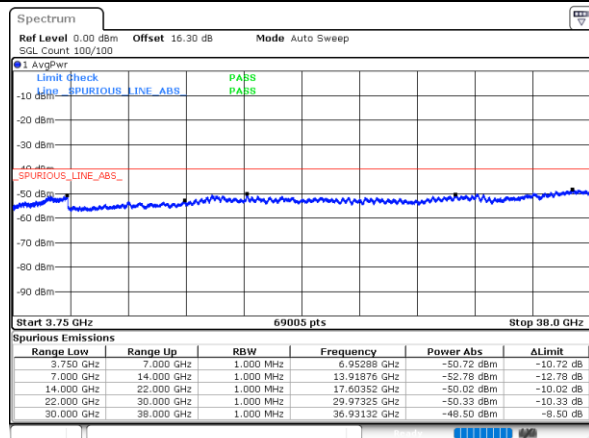


Date: 26.JUL.2022 21:57:33

Highest Channel / QPSK



Date: 26.JUL.2022 21:24:28

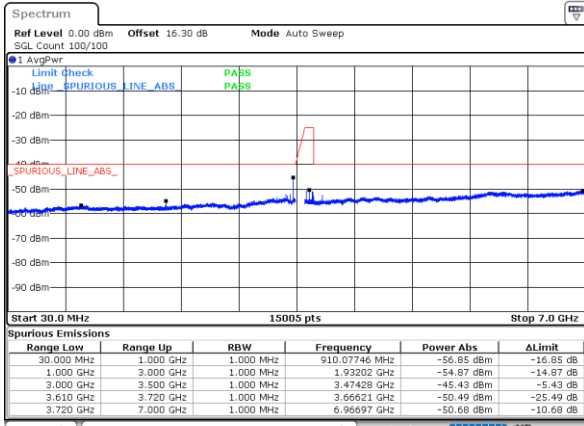


Date: 26.JUL.2022 21:58:49

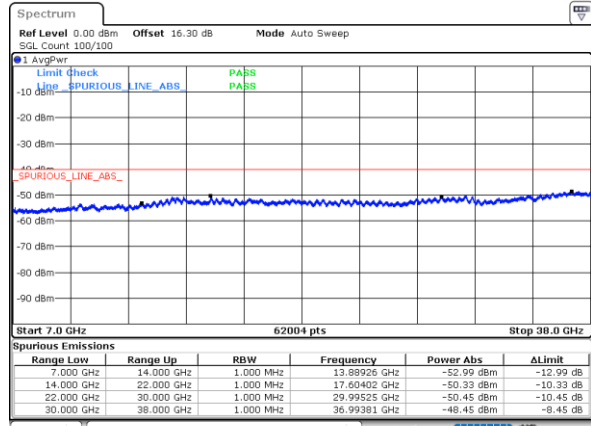


LTE Band 48 / 15MHz

Lowest Channel / QPSK

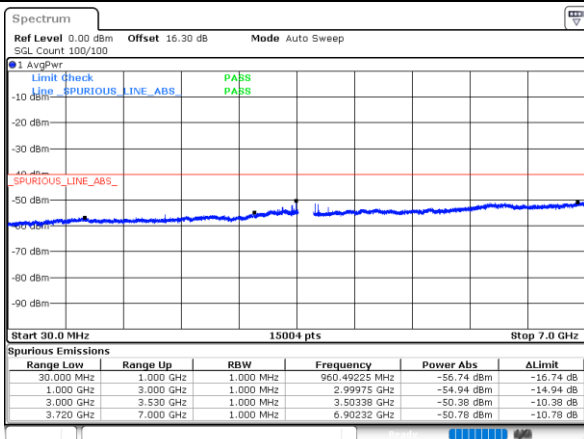


Date: 26.JUL.2022 21:25:44

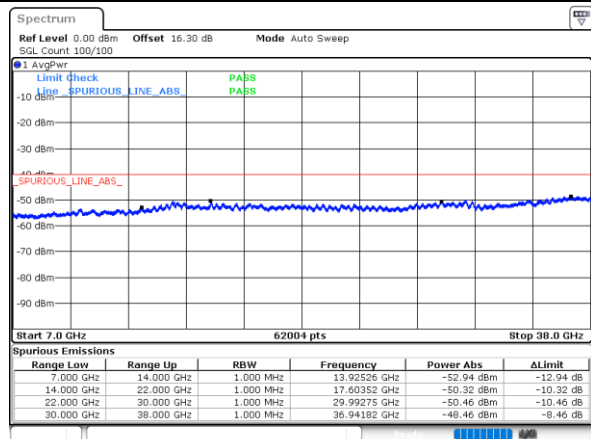


Date: 26.JUL.2022 22:00:06

Middle Channel / QPSK

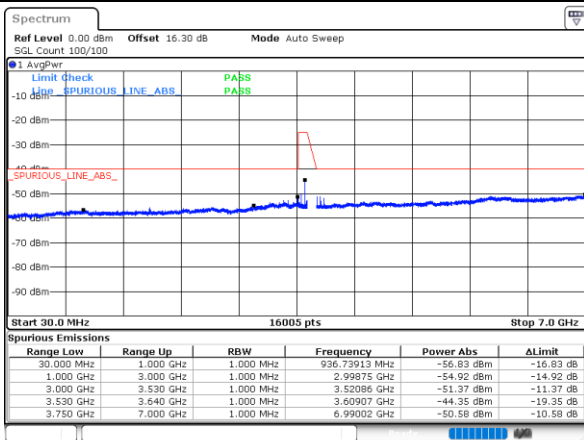


Date: 26.JUL.2022 21:26:59

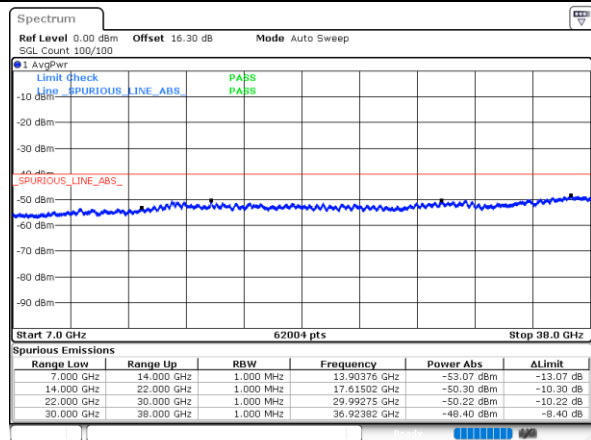


Date: 26.JUL.2022 22:01:20

Highest Channel / QPSK



Date: 26.JUL.2022 21:28:12

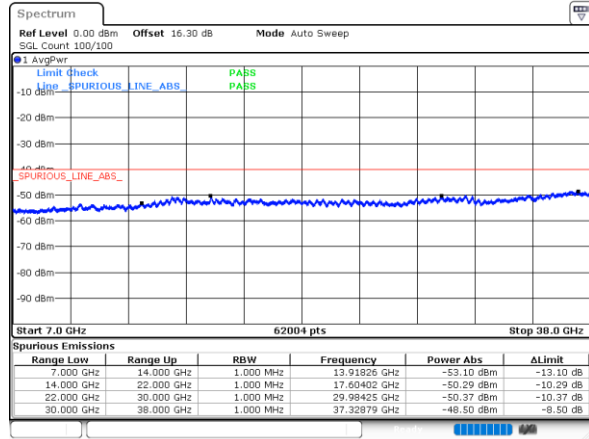
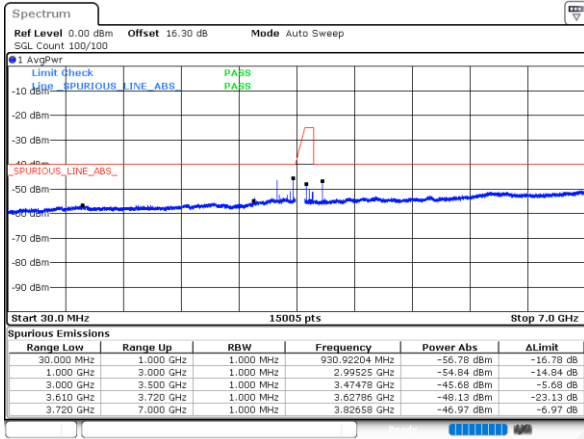


Date: 26.JUL.2022 22:02:33

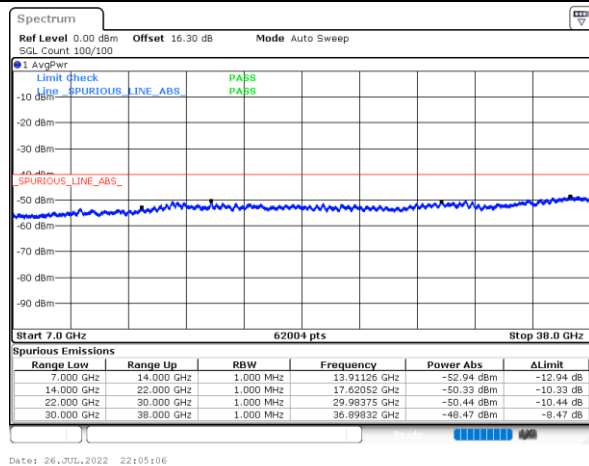
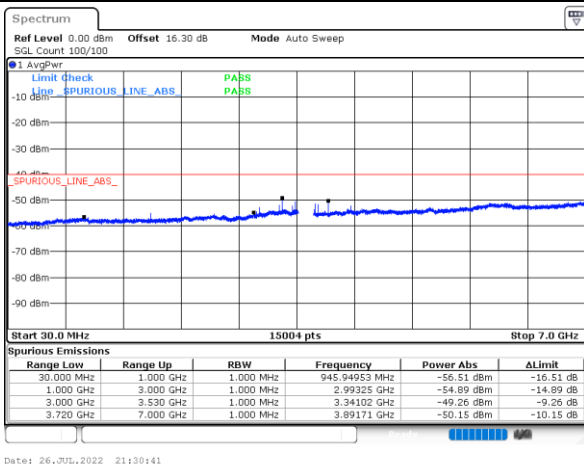


LTE Band 48 / 20MHz

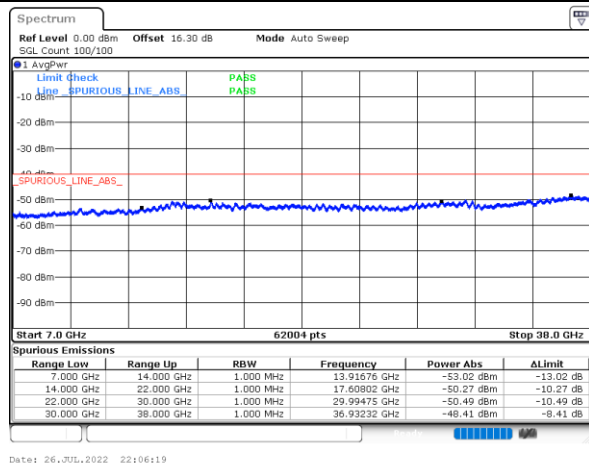
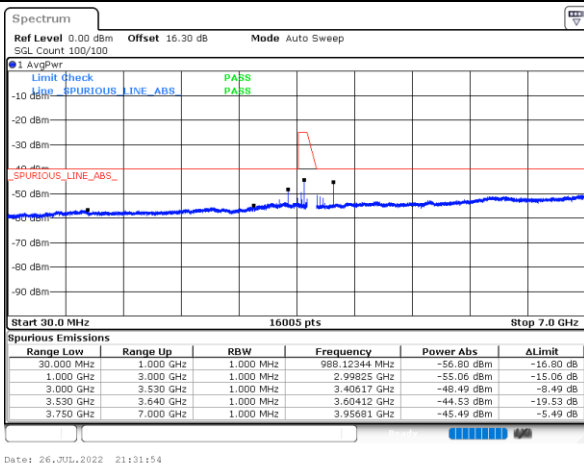
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



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	0.0009	PASS
40	Normal Voltage	0.0031	
30	Normal Voltage	0.0047	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage = 3.7 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.1 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)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7102	-42.49	-40	-2.49	-39.62	-52.19	1.84	11.55	H
	10653	-54.63	-40	-14.63	-56.23	-63.10	2.23	10.71	H
	14204	-46.20	-40	-6.20	-53.93	-55.83	2.65	12.28	H
	21307	-65.22	-40	-25.22	-78.59	-80.07	3.32	18.17	H
	24858	-61.70	-40	-21.70	-78.98	-76.47	3.71	18.49	H
	28409	-58.59	-40	-18.59	-78.1	-74.06	3.99	19.45	H
									H
	7102	-40.63	-40	-0.63	-37.99	-50.33	1.84	11.55	V
	10653	-54.59	-40	-14.59	-55.78	-63.06	2.23	10.71	V
	14204	-45.86	-40	-5.86	-53.46	-55.49	2.65	12.28	V
	21307	-65.32	-40	-25.32	-78.38	-80.17	3.32	18.17	V
	24858	-61.76	-40	-21.76	-78.72	-76.53	3.71	18.49	V
	28409	-59.10	-40	-19.10	-78.19	-74.57	3.99	19.45	V
									V
Middle	7232	-41.05	-40	-1.05	-38.52	-50.51	1.86	11.32	H
	10848	-53.39	-40	-13.39	-55.38	-61.77	2.22	10.59	H
	14464	-49.08	-40	-9.08	-57.05	-58.58	2.62	12.12	H
	18080	-61.81	-40	-21.81	-72.29	-76.18	3.23	17.60	H
	21696	-63.72	-40	-23.72	-77.88	-78.89	3.42	18.60	H
	25312	-61.55	-40	-21.55	-78.87	-76.55	3.77	18.77	H
									H
	7232	-43.77	-40	-3.77	-41.59	-53.23	1.86	11.32	V
	10848	-53.80	-40	-13.80	-55.56	-62.18	2.22	10.59	V
	14464	-47.97	-40	-7.97	-56.38	-57.47	2.62	12.12	V
	18080	-63.64	-40	-23.64	-73.82	-78.01	3.23	17.60	V
	21696	-62.50	-40	-22.50	-76.33	-77.67	3.42	18.60	V
	25312	-61.50	-40	-21.50	-78.53	-76.50	3.77	18.77	V
									V



Highest	7362	-40.79	-40	-0.79	-38.58	-50.25	1.92	11.38	H
	11043	-53.36	-40	-13.36	-55.78	-61.69	2.22	10.55	H
	14724	-47.72	-40	-7.72	-55.8	-57.72	2.59	12.59	H
	18405	-64.44	-40	-24.44	-75.23	-78.80	3.24	17.60	H
	22086	-64.10	-40	-24.10	-78.67	-79.47	3.52	18.88	H
	25767	-60.78	-40	-20.78	-78.44	-75.95	3.88	19.05	H
									H
	7362	-45.48	-40	-5.48	-43.42	-54.94	1.92	11.38	V
	11043	-53.63	-40	-13.63	-55.98	-61.96	2.22	10.55	V
	14724	-45.70	-40	-5.70	-54.74	-55.70	2.59	12.59	V
	18405	-64.56	-40	-24.56	-75.12	-78.92	3.24	17.60	V
	22086	-64.12	-40	-24.12	-78.31	-79.49	3.52	18.88	V
	25767	-60.69	-40	-20.69	-78.06	-75.86	3.88	19.05	V
									V

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