

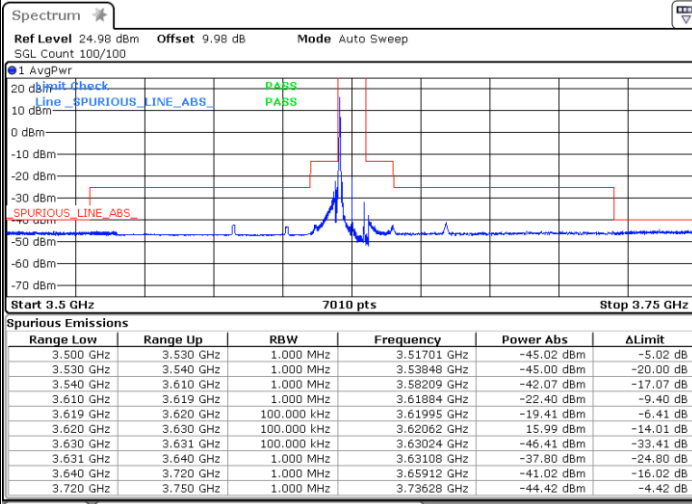


LTE Band 48 / 10MHz

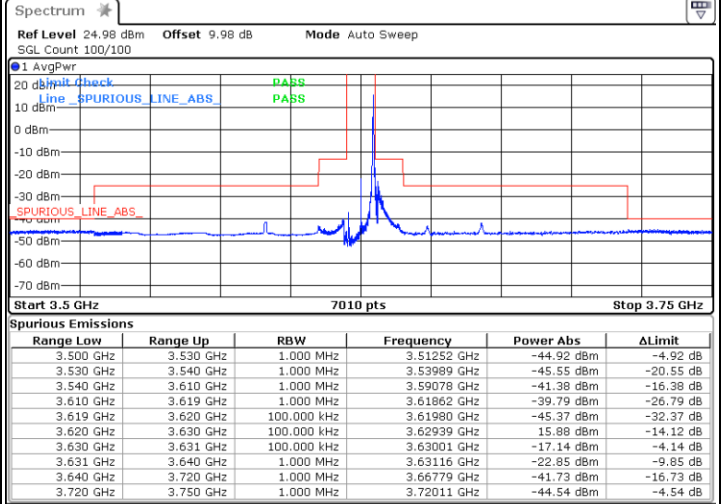
QPSK

Mid Channel / 1RB0

Mid Channel / 1RBmax



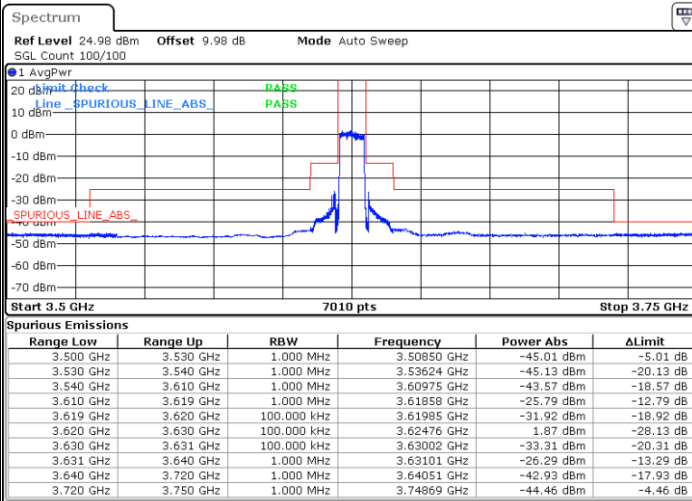
Date: 1.AUG.2020 17:10:57



Date: 1.AUG.2020 17:10:14

Mid Channel / FullIRB

N/A



Date: 1.AUG.2020 17:13:34

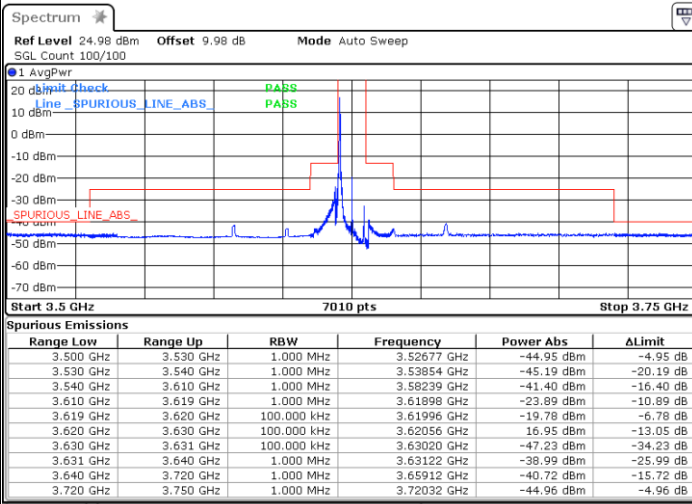


LTE Band 48 / 10MHz

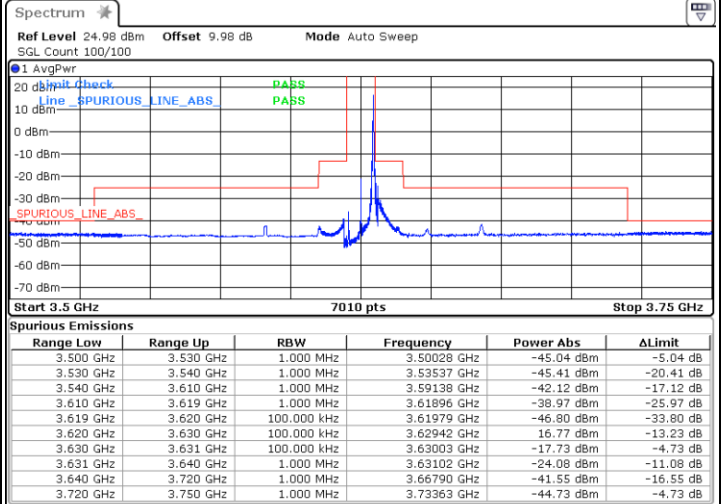
16QAM

Mid Channel / 1RB0

Mid Channel / 1RBmax



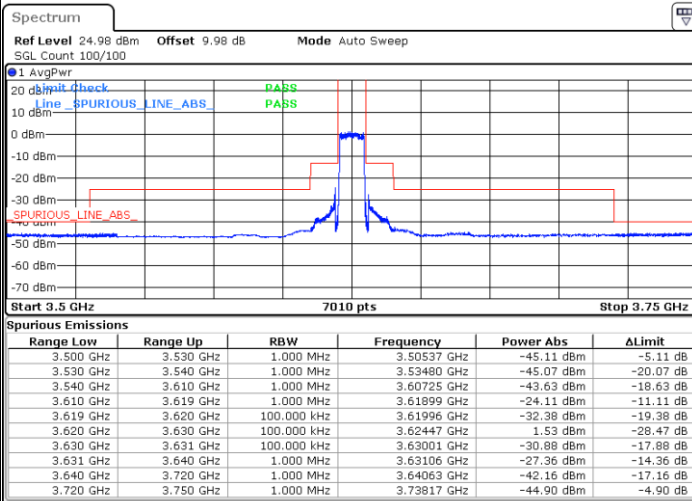
Date: 1.AUG.2020 17:11:28



Date: 1.AUG.2020 17:07:44

Mid Channel / FullIRB

N/A



Date: 1.AUG.2020 17:12:52

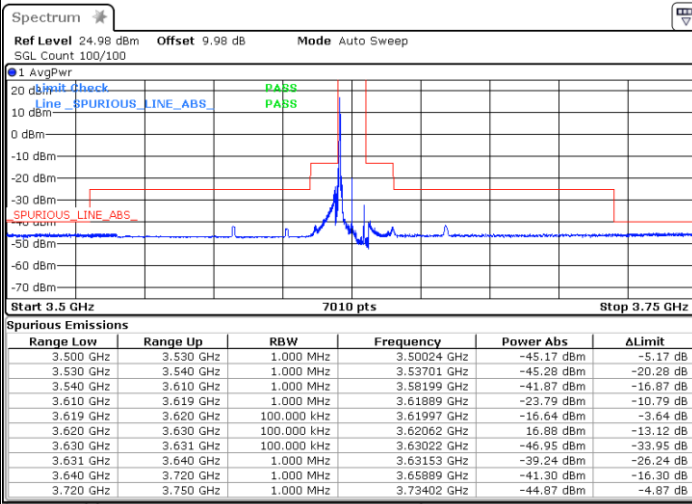


LTE Band 48 / 10MHz

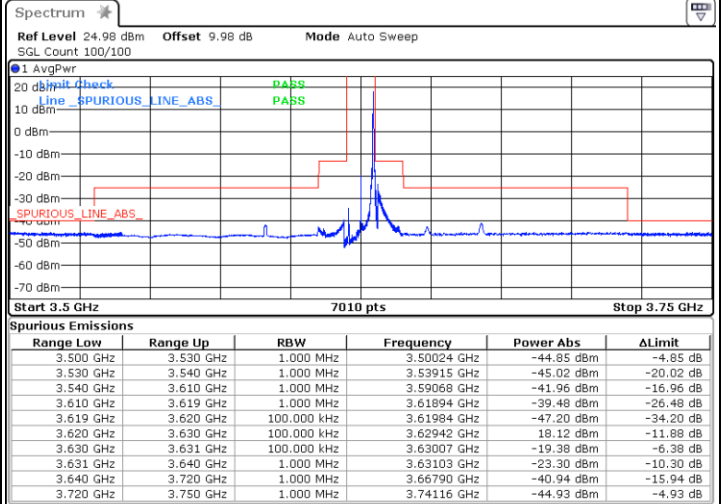
64QAM

Mid Channel / 1RB0

Mid Channel / 1RBmax



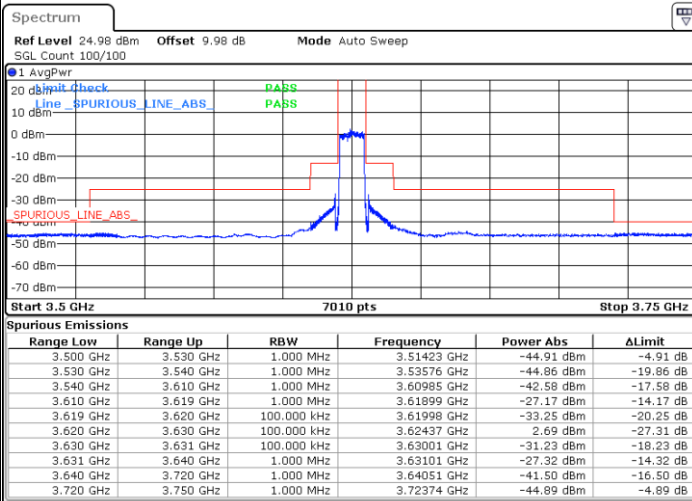
Date: 1.AUG.2020 17:11:58



Date: 1.AUG.2020 17:07:05

Mid Channel / FullIRB

N/A



Date: 1.AUG.2020 17:12:27

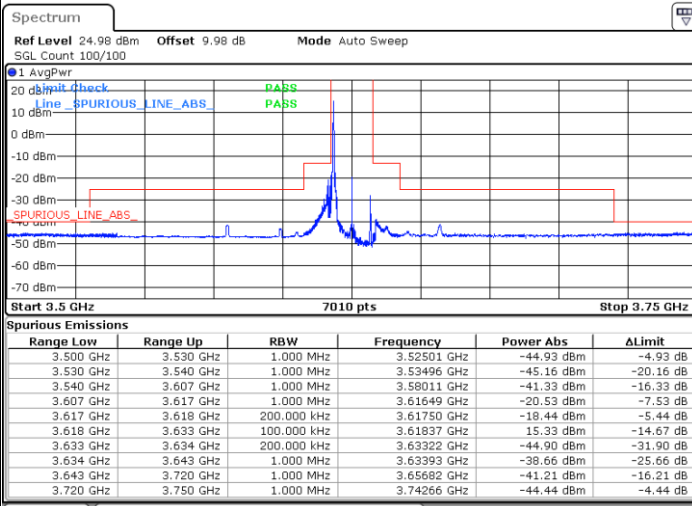


LTE Band 48 / 15MHz

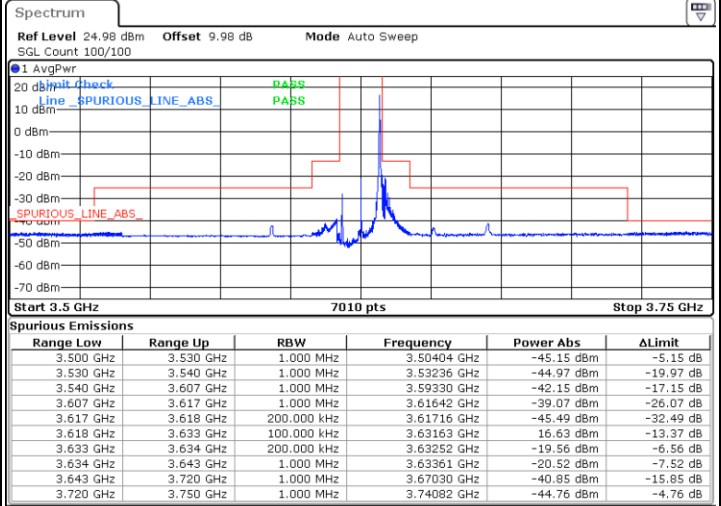
QPSK

Mid Channel / 1RB0

Mid Channel / 1RBmax



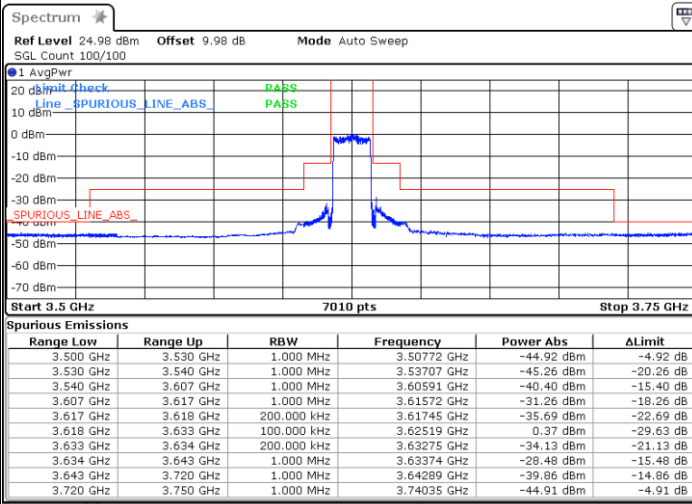
Date: 1.AUG.2020 18:45:11



Date: 1.AUG.2020 18:44:33

Mid Channel / FullIRB

N/A



Date: 1.AUG.2020 18:33:51

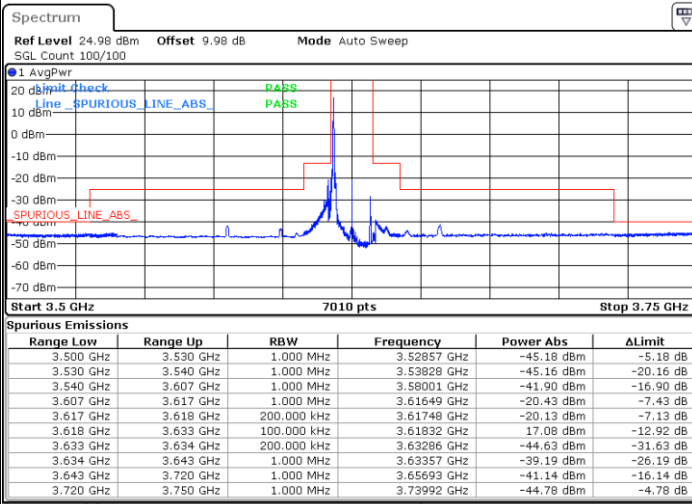


LTE Band 48 / 15MHz

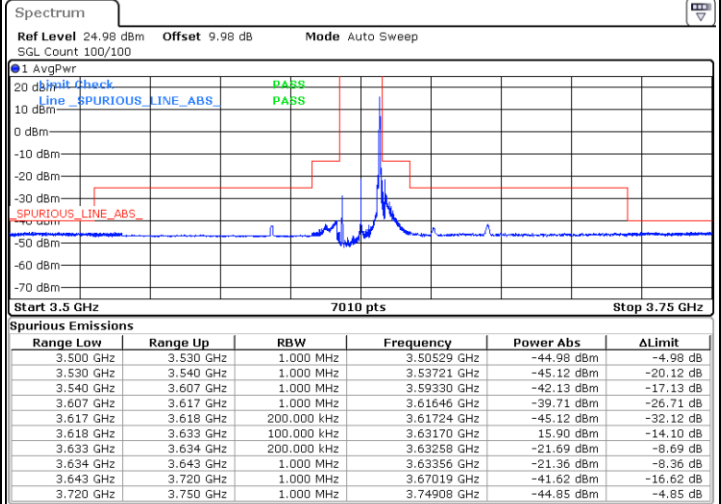
16QAM

Mid Channel / 1RB0

Mid Channel / 1RBmax



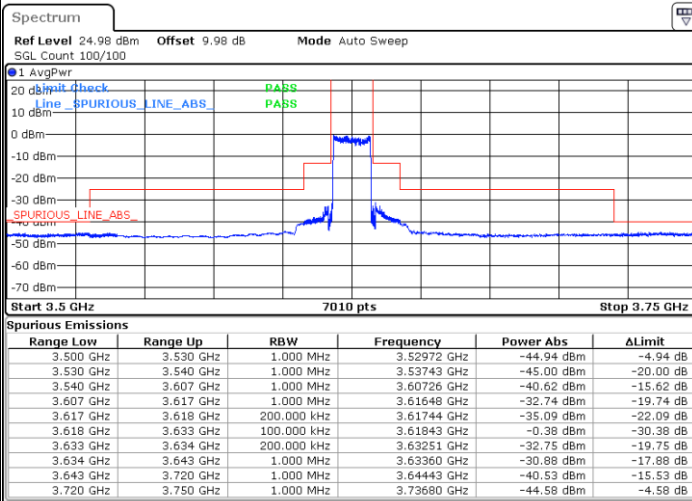
Date: 1.AUG.2020 18:45:36



Date: 1.AUG.2020 18:44:02

Mid Channel / FullIRB

N/A



Date: 1.AUG.2020 18:42:44

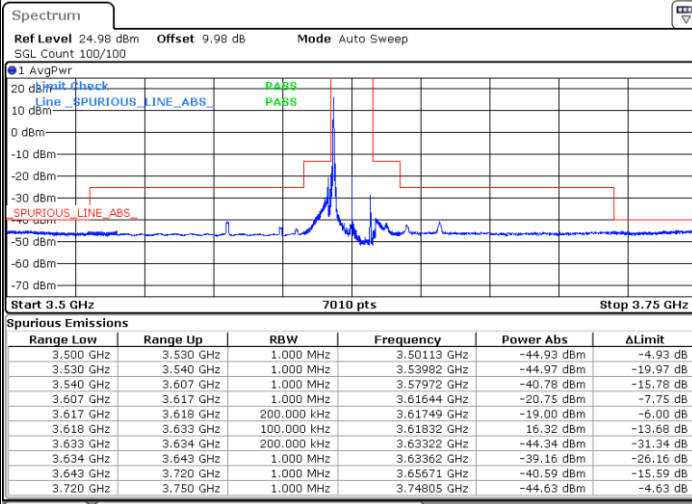


LTE Band 48 / 15MHz

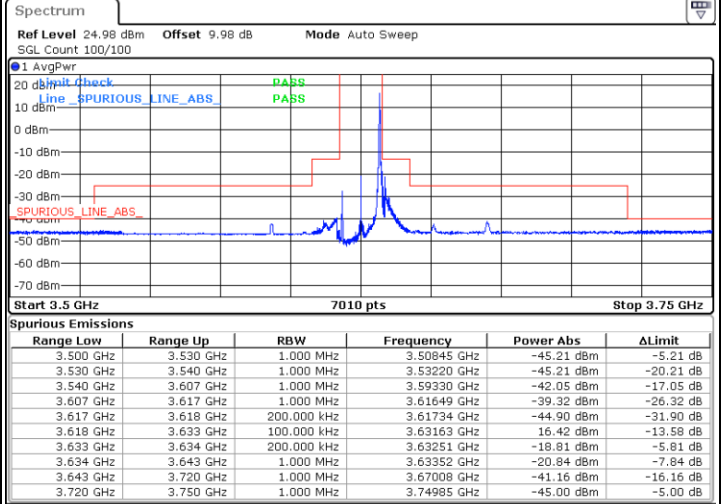
64QAM

Mid Channel / 1RB0

Mid Channel / 1RBmax



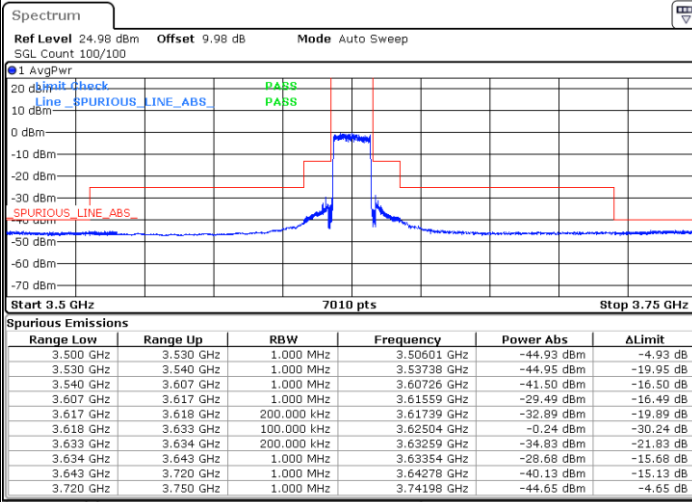
Date: 1.AUG.2020 18:46:04



Date: 1.AUG.2020 18:43:37

Mid Channel / FullIRB

N/A



Date: 1.AUG.2020 18:43:06

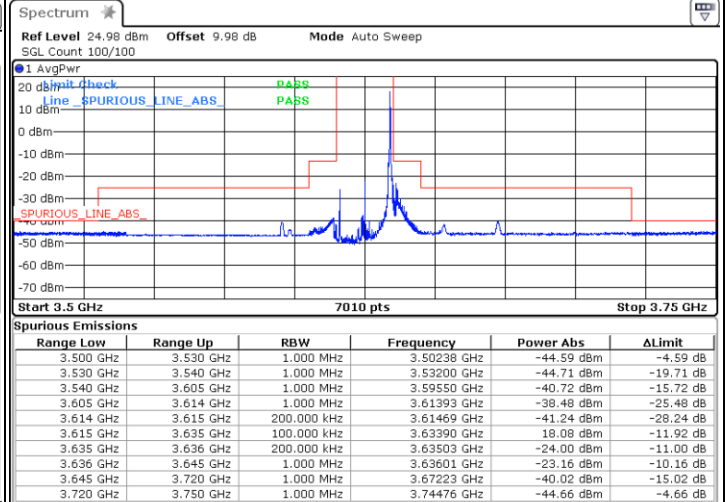
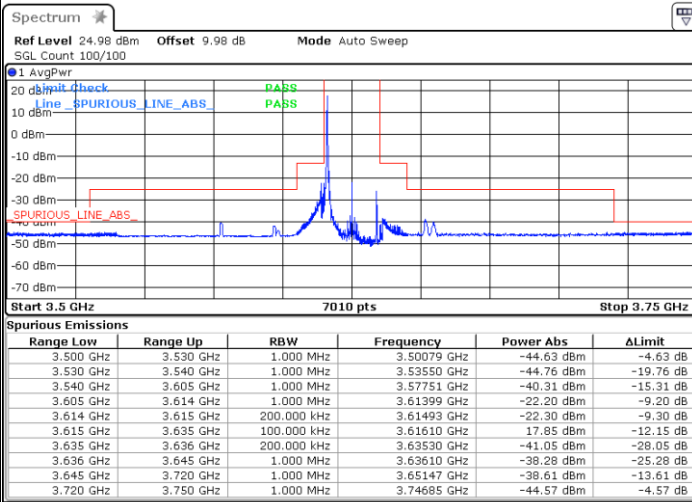


LTE Band 48 / 20MHz

QPSK

Mid Channel / 1RB0

Mid Channel / 1RBmax

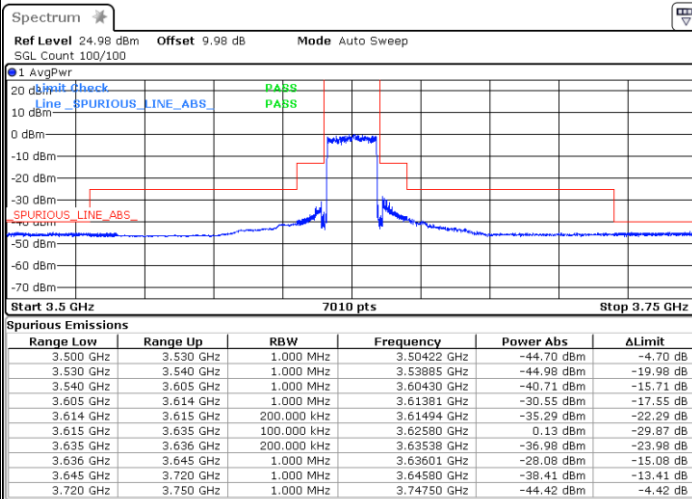


Date: 1.AUG.2020 13:31:07

Date: 1.AUG.2020 13:30:27

Mid Channel / FullIRB

N/A



Date: 1.AUG.2020 13:34:16

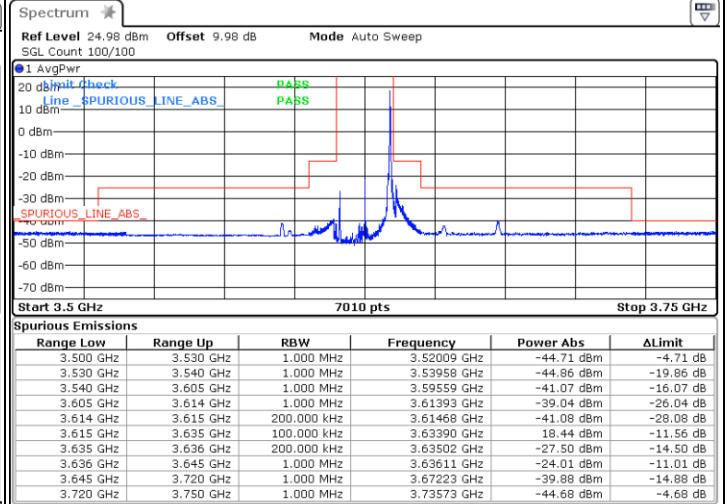
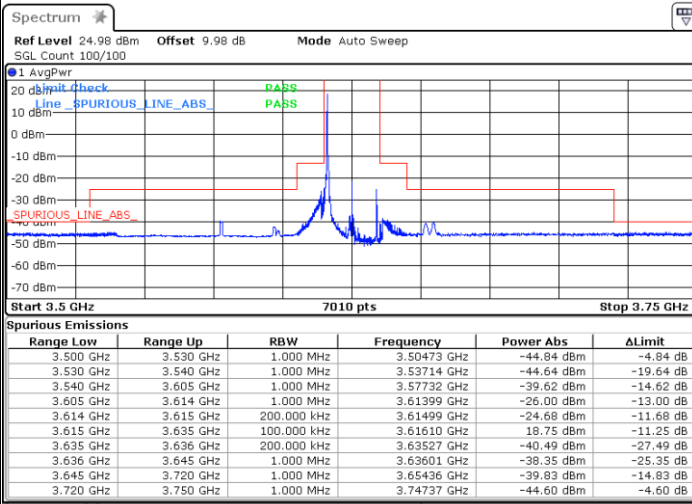


LTE Band 48 / 20MHz

16QAM

Mid Channel / 1RB0

Mid Channel / 1RBmax

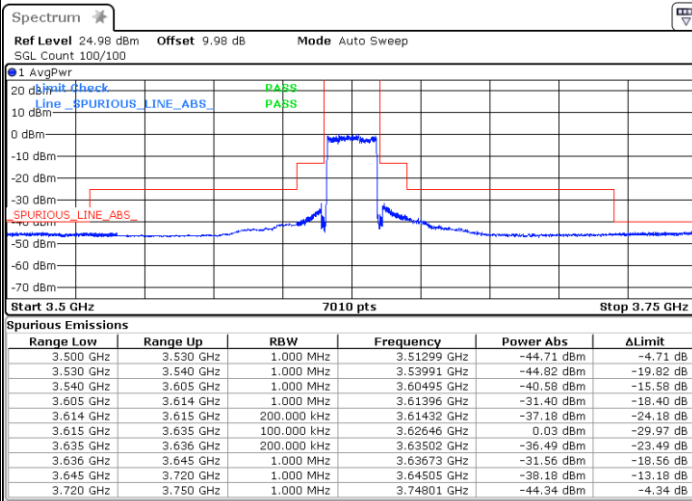


Date: 1.AUG.2020 13:31:40

Date: 1.AUG.2020 13:29:35

Mid Channel / FullIRB

N/A



Date: 1.AUG.2020 13:33:38



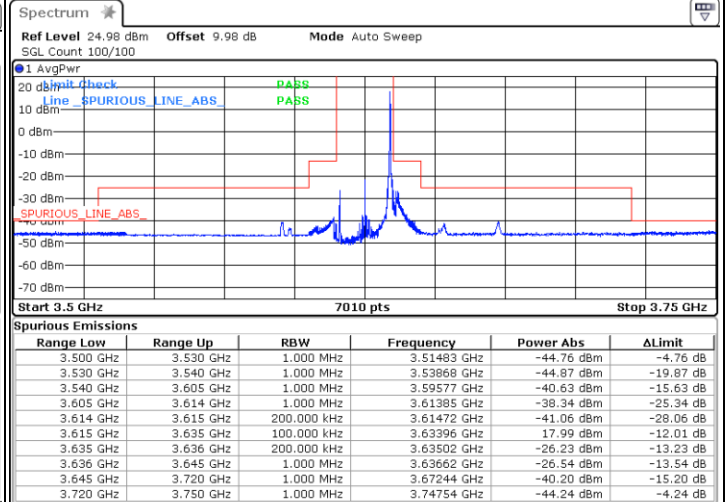
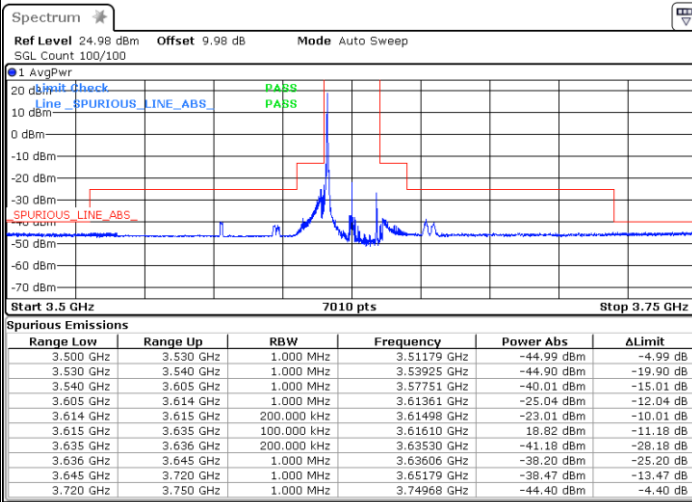


LTE Band 48 / 20MHz

64QAM

Mid Channel / 1RB0

Mid Channel / 1RBmax

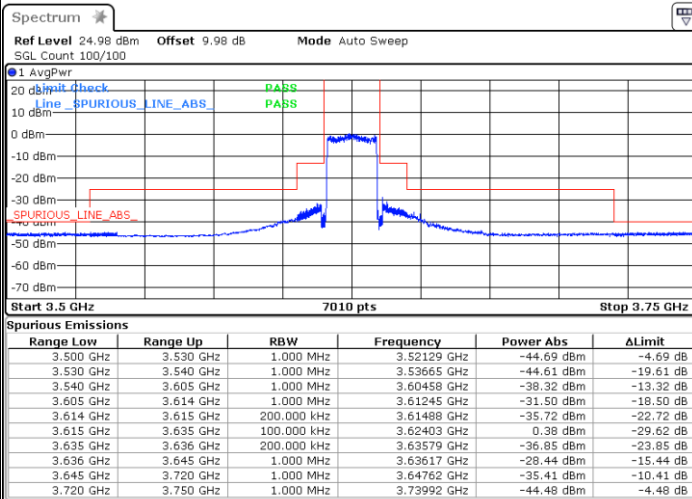


Date: 1.AUG.2020 13:32:15

Date: 1.AUG.2020 13:28:17

Mid Channel / FullIRB

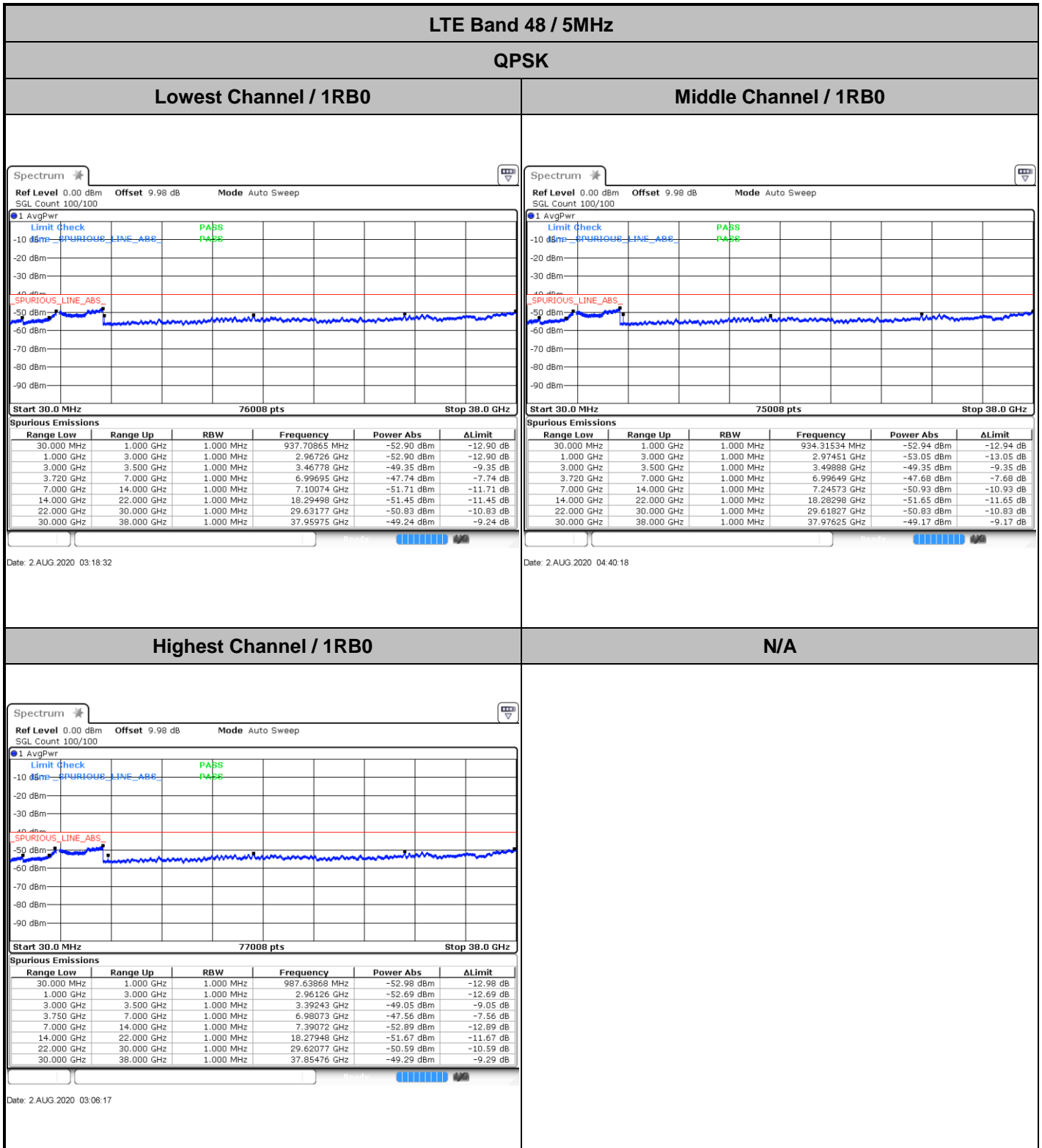
N/A



Date: 1.AUG.2020 13:32:55



# Conducted Spurious Emission



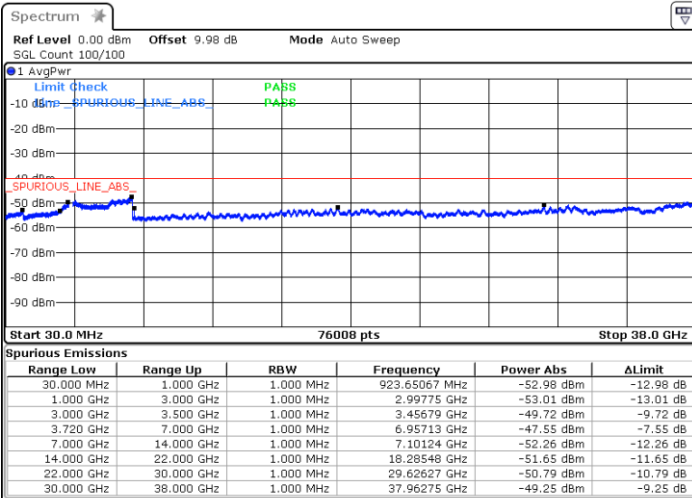


LTE Band 48 / 5MHz

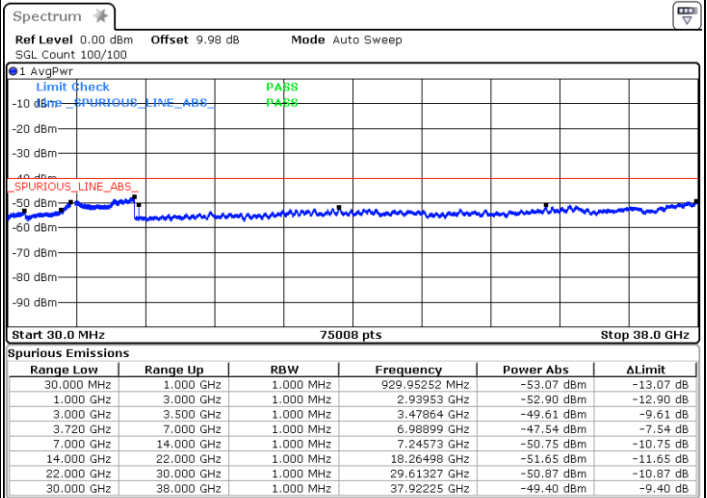
16QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0



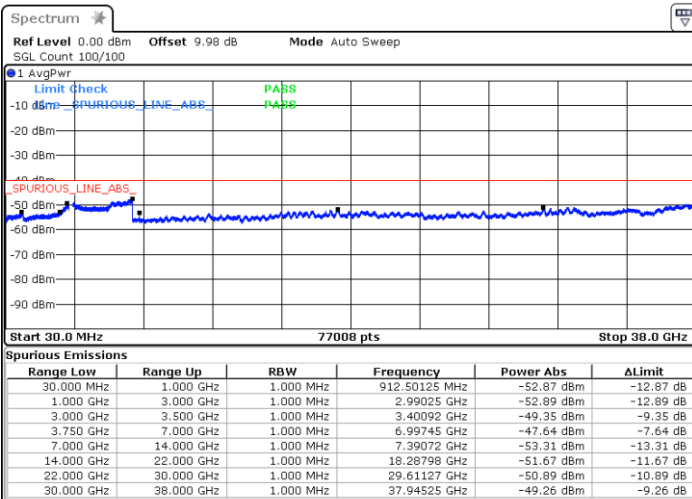
Date: 2.AUG.2020 03:23:16



Date: 2.AUG.2020 04:42:07

Highest Channel / 1RB0

N/A



Date: 2.AUG.2020 03:04:12

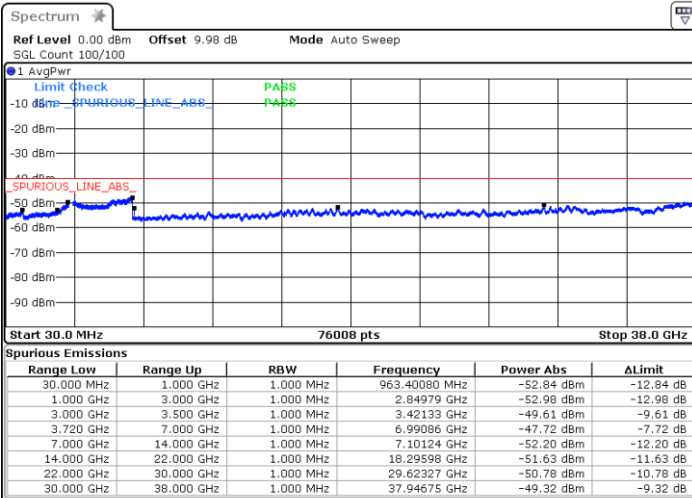


LTE Band 48 / 5MHz

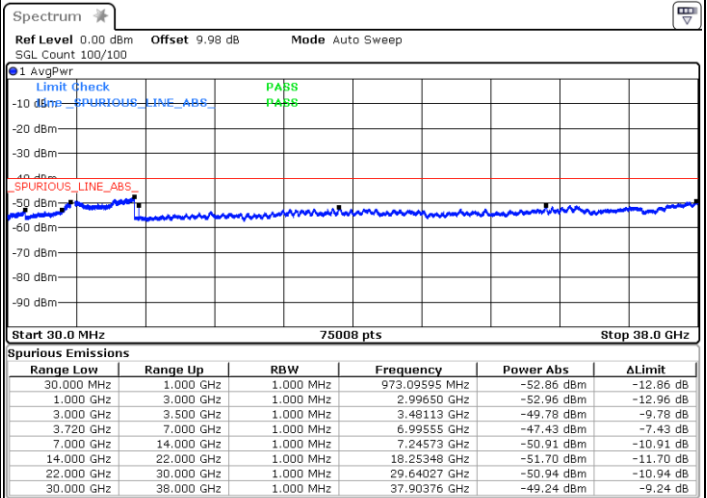
64QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0



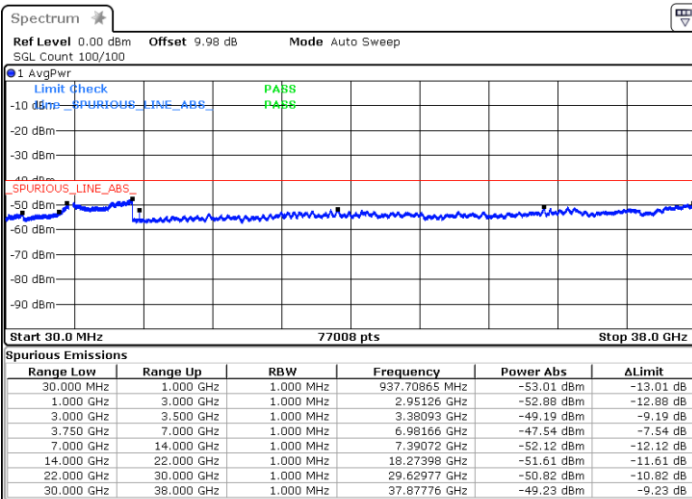
Date: 2.AUG.2020 03:25:11



Date: 2.AUG.2020 04:44:59

Highest Channel / 1RB0

N/A



Date: 2.AUG.2020 03:08:10

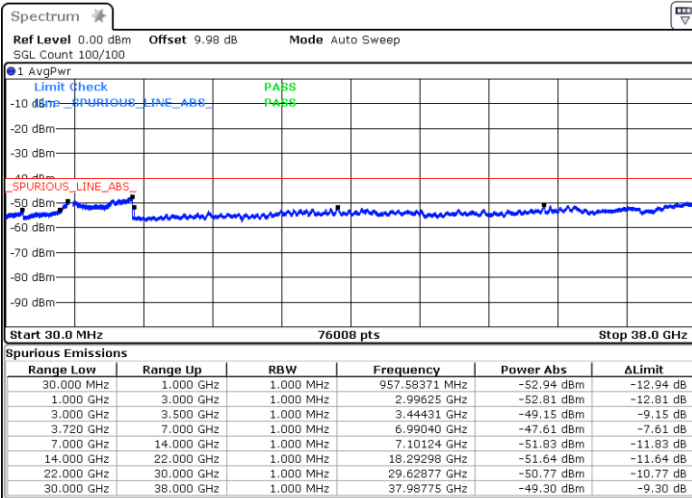


LTE Band 48 / 10MHz

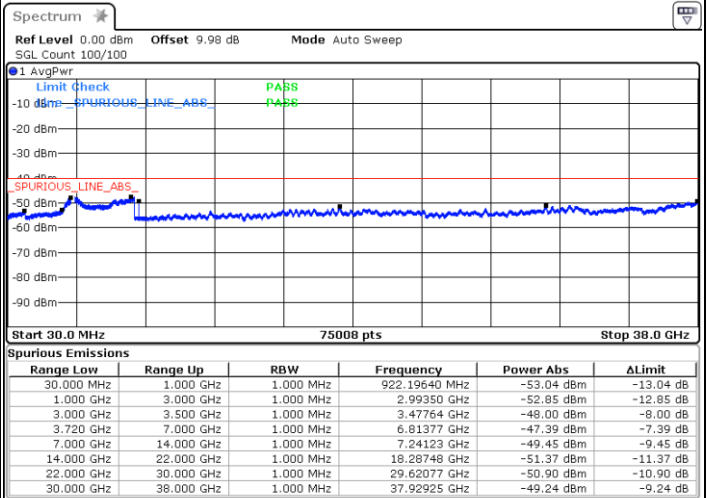
QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0



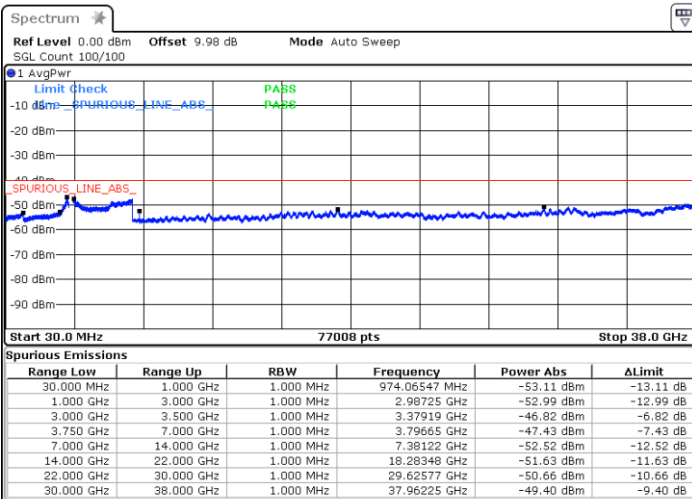
Date: 2.AUG.2020 03:35:00



Date: 2.AUG.2020 04:55:37

Highest Channel / 1RB0

N/A



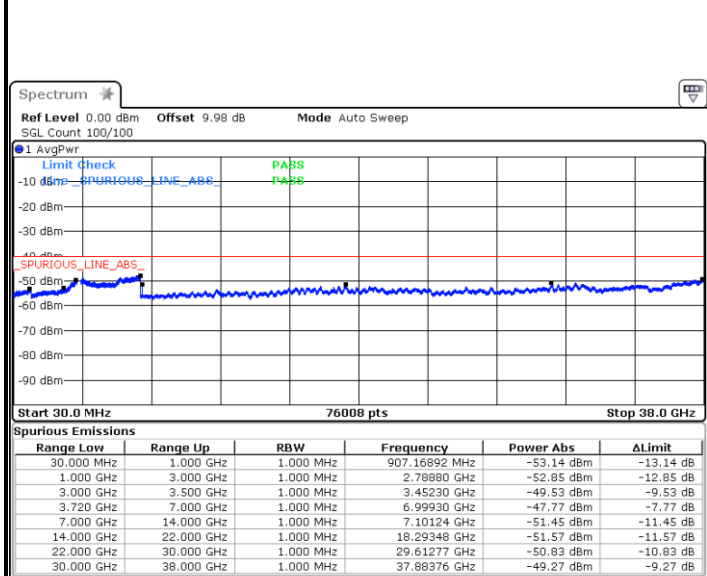
Date: 2.AUG.2020 03:47:47



**LTE Band 48 / 10MHz**

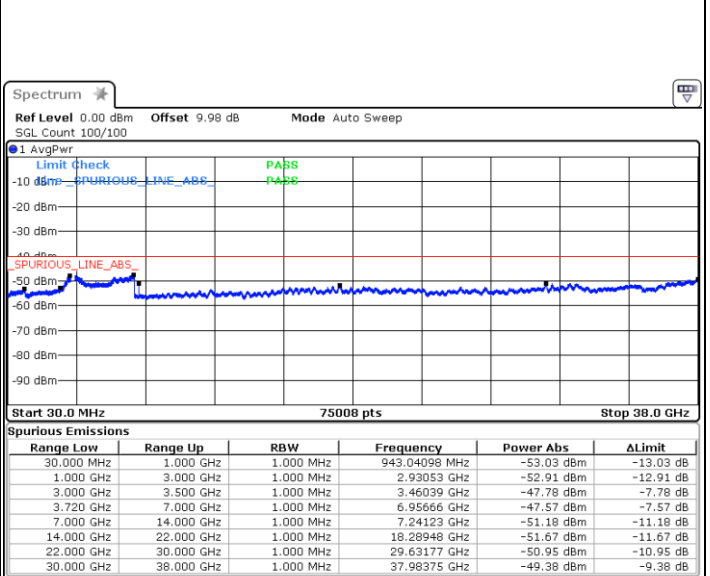
**16QAM**

**Lowest Channel / 1RB0**



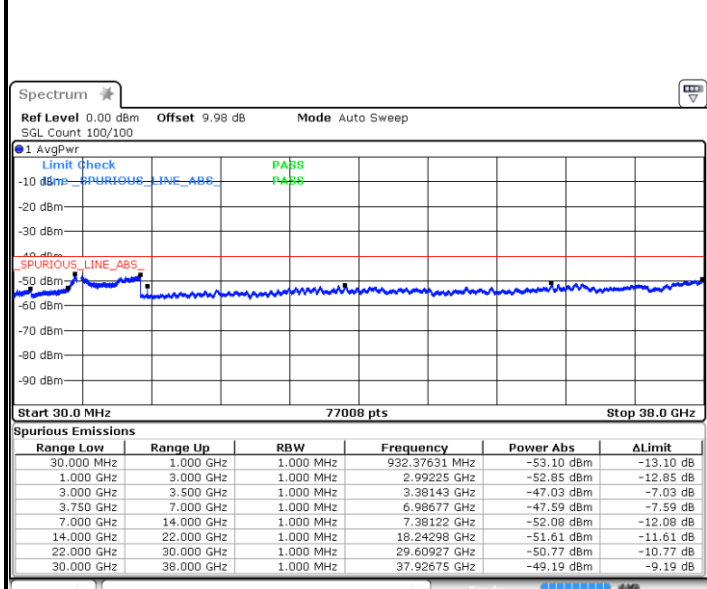
Date: 2.AUG.2020 03:36:37

**Middle Channel / 1RB0**



Date: 2.AUG.2020 03:43:41

**Highest Channel / 1RB0**



Date: 2.AUG.2020 03:49:53

**N/A**

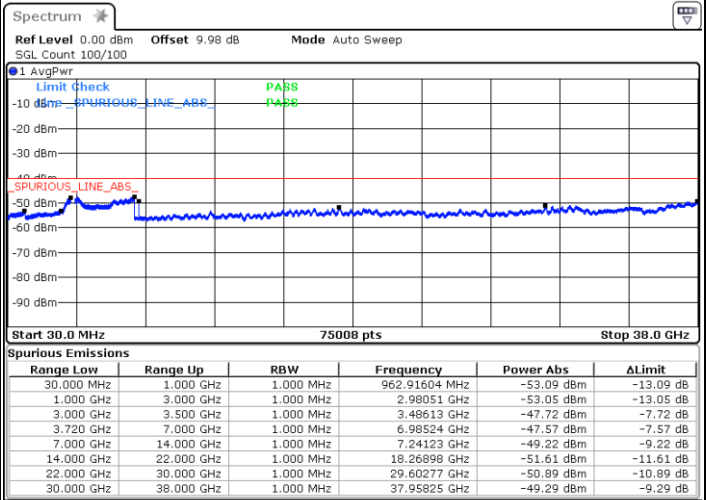
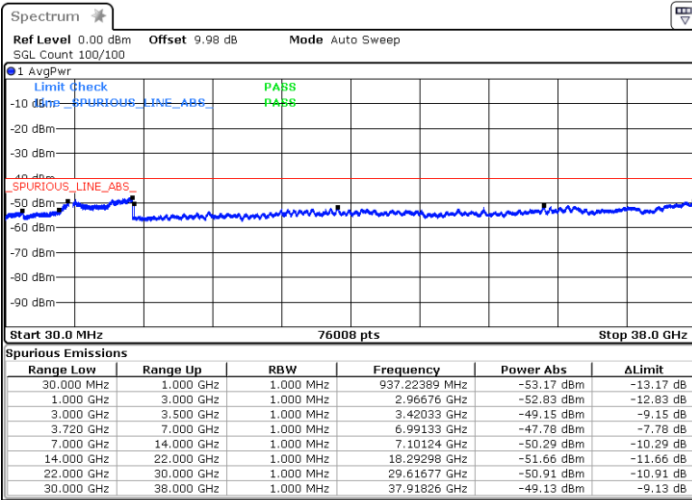


LTE Band 48 / 10MHz

64QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0

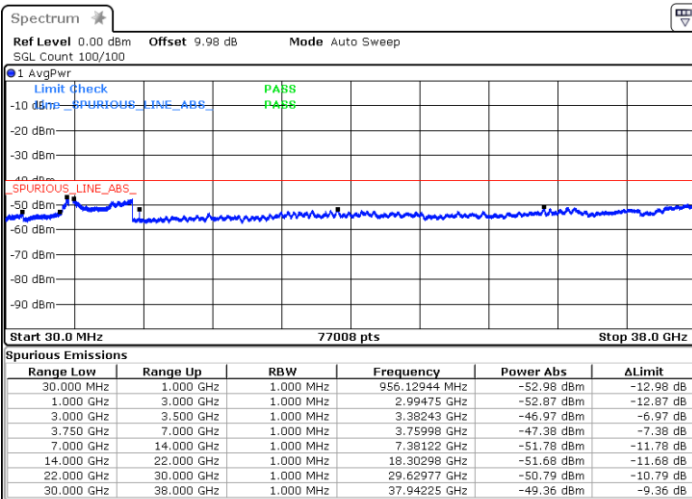


Date: 2 AUG.2020 03:38:20

Date: 2 AUG.2020 03:41:32

Highest Channel / 1RB0

N/A



Date: 2 AUG.2020 03:51:29

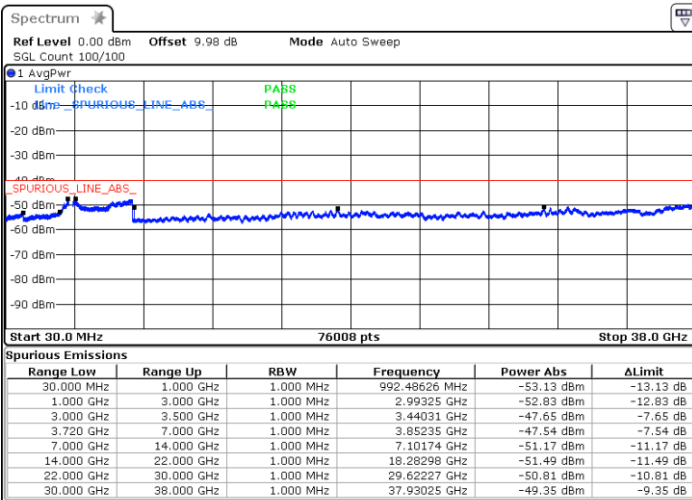


LTE Band 48 / 15MHz

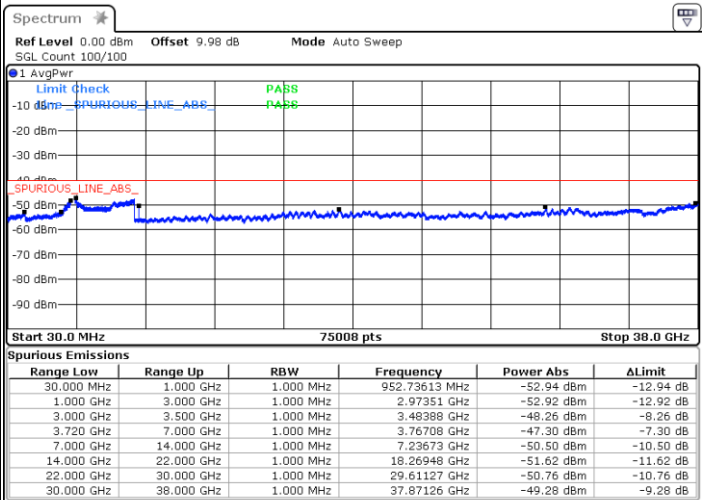
QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0



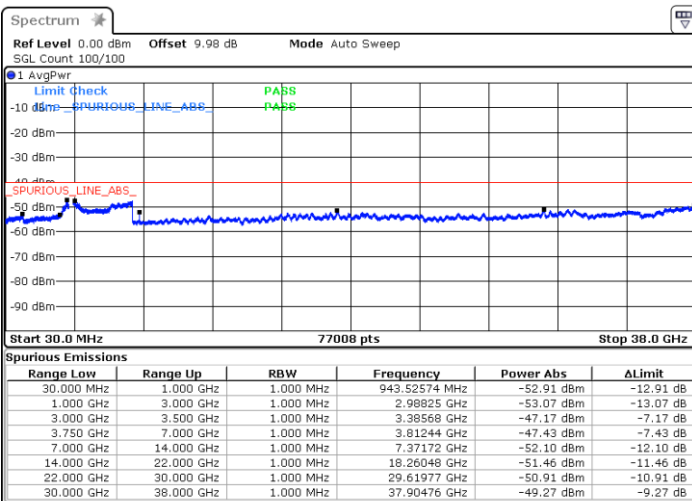
Date: 2.AUG.2020 03:57:15



Date: 2.AUG.2020 04:10:31

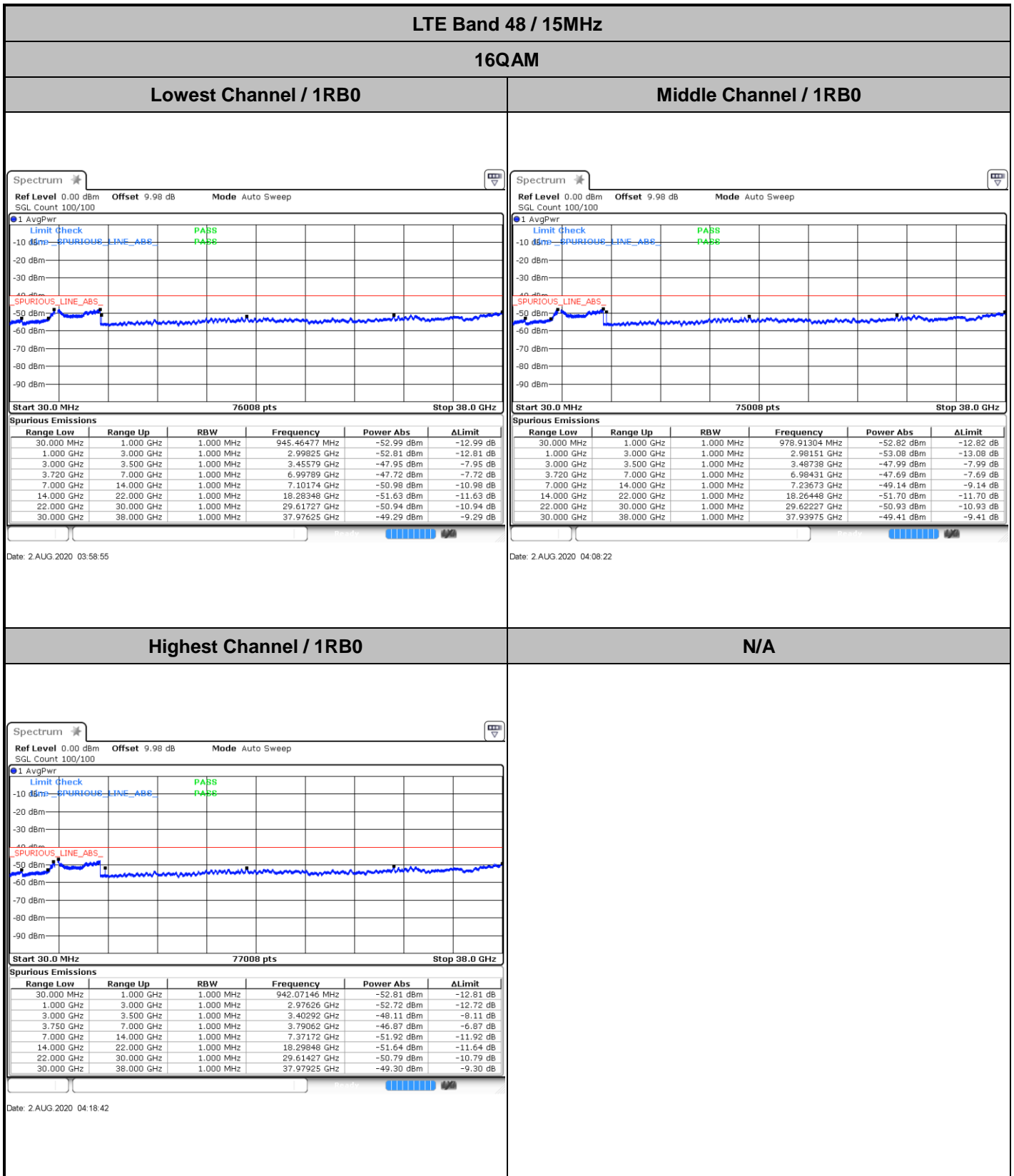
Highest Channel / 1RB0

N/A



Date: 2.AUG.2020 04:13:06





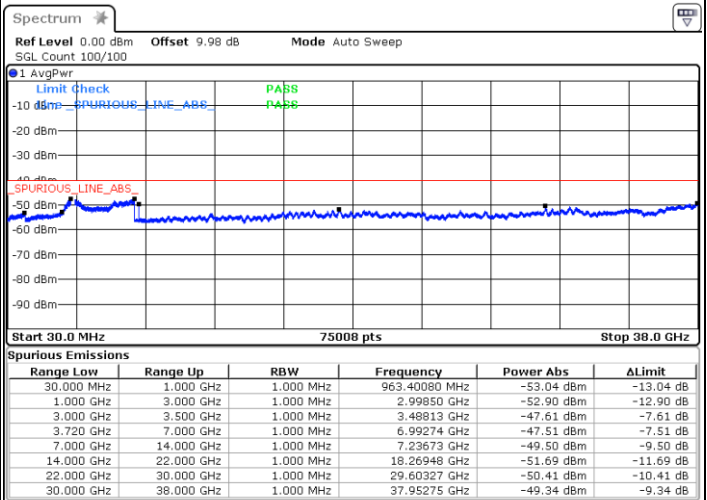
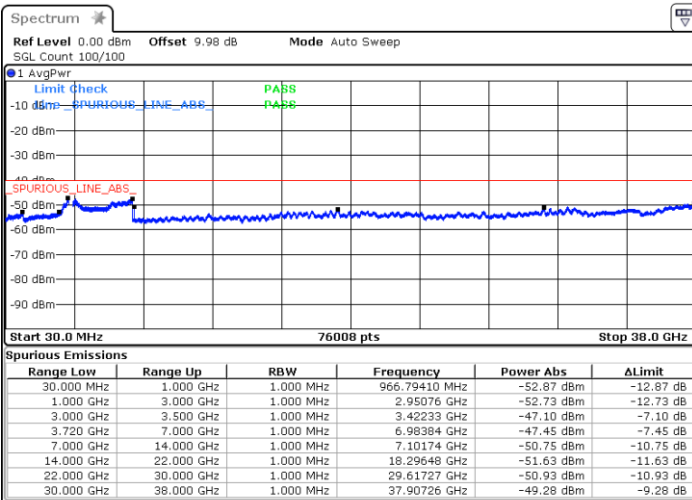


LTE Band 48 / 15MHz

64QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0

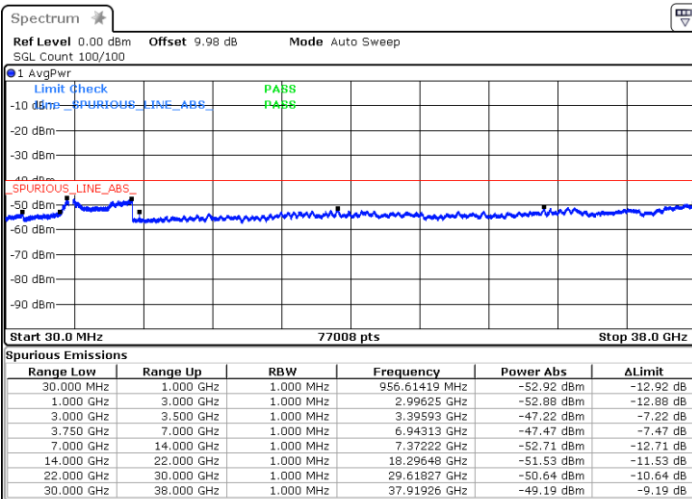


Date: 2 AUG.2020 04:00:22

Date: 2 AUG.2020 04:06:19

Highest Channel / 1RB0

N/A



Date: 2 AUG.2020 04:20:31

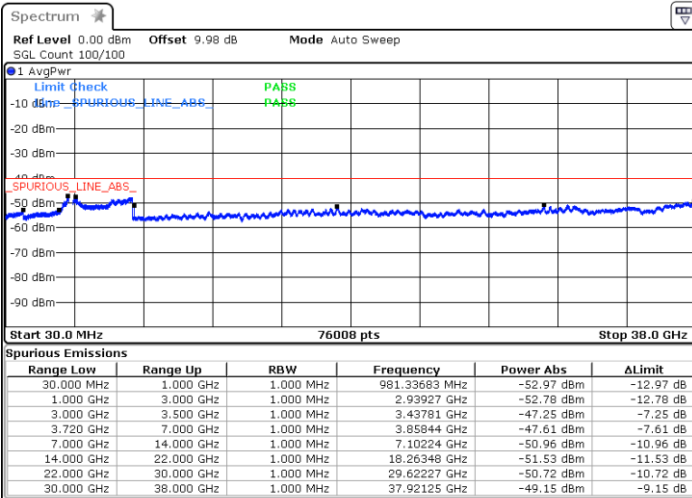


LTE Band 48 / 20MHz

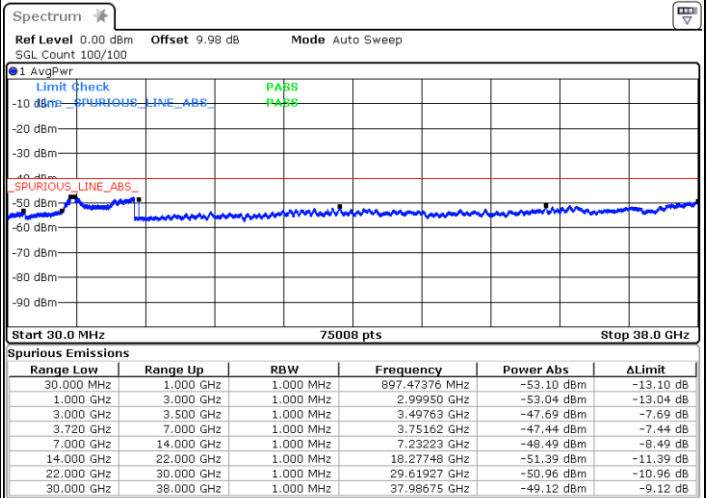
QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0



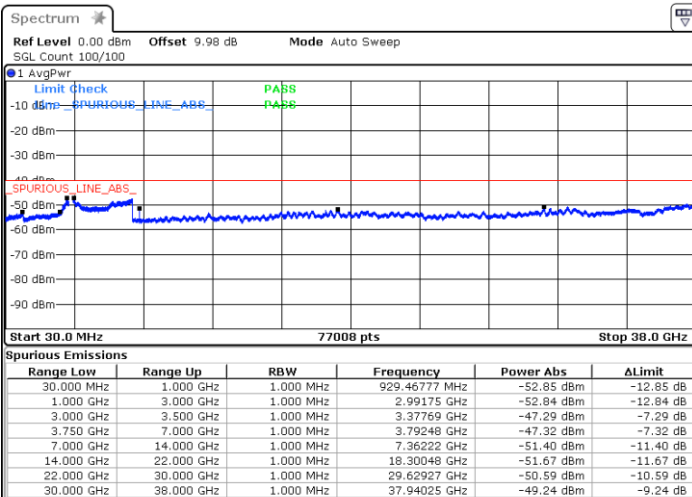
Date: 2.AUG.2020 04:26:28



Date: 2.AUG.2020 04:28:30

Highest Channel / 1RB0

N/A



Date: 2.AUG.2020 04:37:25

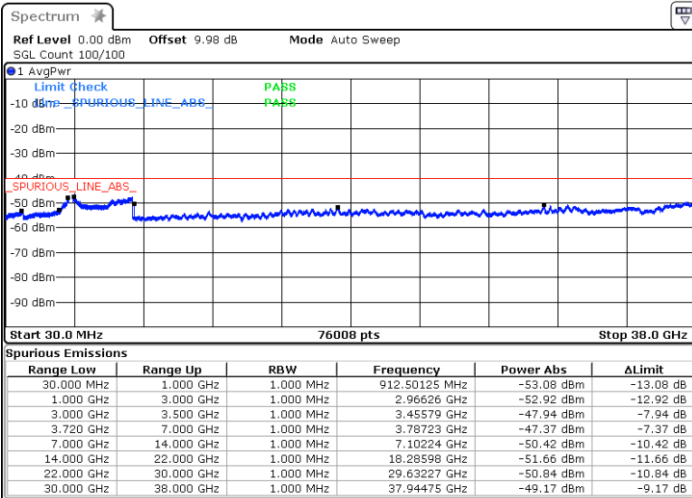


LTE Band 48 / 20MHz

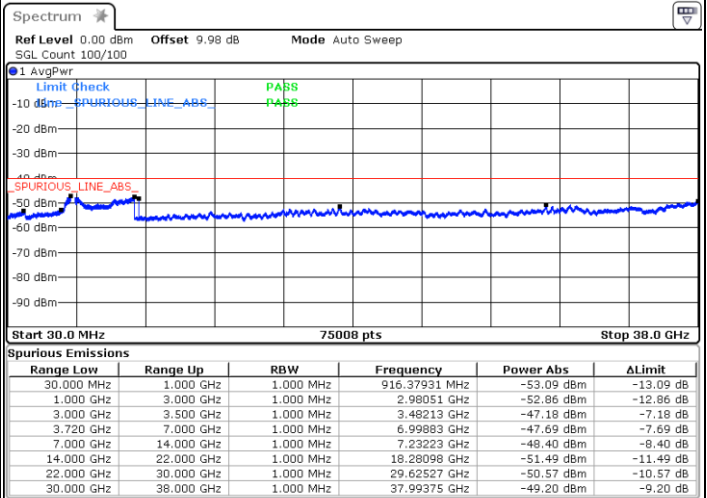
16QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0



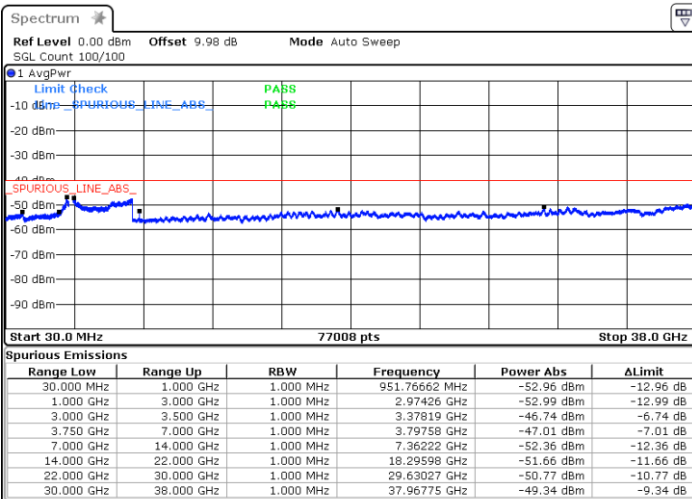
Date: 2 AUG.2020 04:24:30



Date: 2 AUG.2020 04:30:14

Highest Channel / 1RB0

N/A



Date: 2 AUG.2020 04:35:40

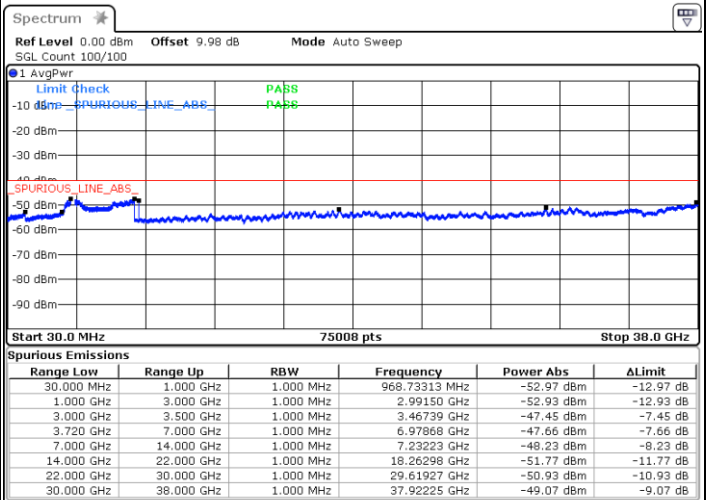
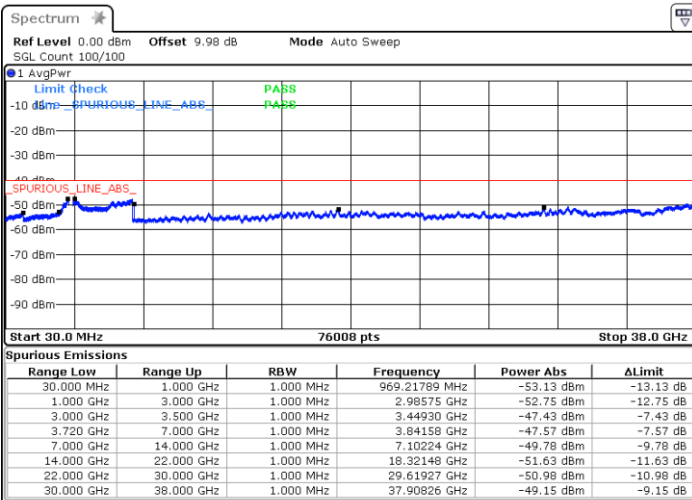


LTE Band 48 / 20MHz

64QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0

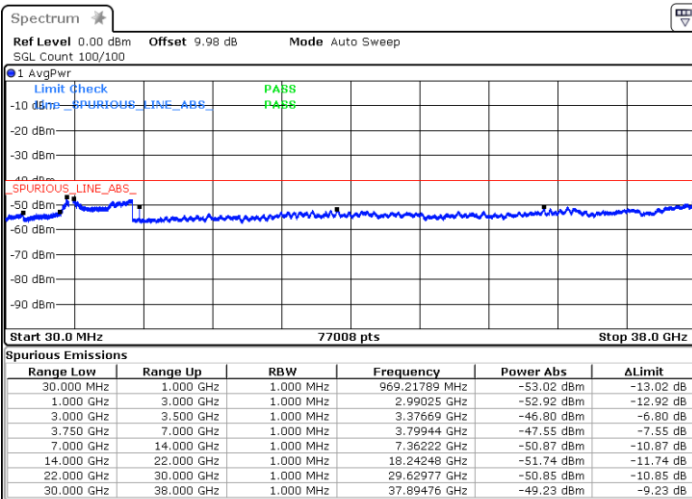


Date: 2 AUG.2020 04:22:58

Date: 2 AUG.2020 04:32:06

Highest Channel / 1RB0

N/A



Date: 2 AUG.2020 04:34:01



**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	0.0007	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

**Note:**

1. Normal Voltage =24 V. ; Battery End Point (BEP) =19 V. ; Maximum Voltage =30 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

#### Sample 1

LTE Band 48 / 10MHz / 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	7240	-45.48	-40	-5.48	-56.94	2.84	14.30	H
	10860	-54.14	-40	-14.14	-64.08	3.49	13.43	H
	14484	-52.99	-40	-12.99	-63.23	3.85	14.09	H
	7240	-46.98	-40	-6.98	-58.44	2.84	14.30	V
	10862	-55.92	-40	-15.92	-65.86	3.49	13.43	V
	14484	-52.60	-40	-12.60	-62.84	3.85	14.09	V

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

#### Sample 2

LTE Band 48 / 10MHz / 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	7240	-46.49	-40	-6.49	-57.95	2.84	14.30	H
	10860	-55.34	-40	-15.34	-65.28	3.49	13.43	H
	14484	-52.91	-40	-12.91	-63.15	3.85	14.09	H
	7240	-48.76	-40	-8.76	-60.22	2.84	14.30	V
	10860	-55.89	-40	-15.89	-65.83	3.49	13.43	V
	14484	-52.50	-40	-12.50	-62.74	3.85	14.09	V

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