

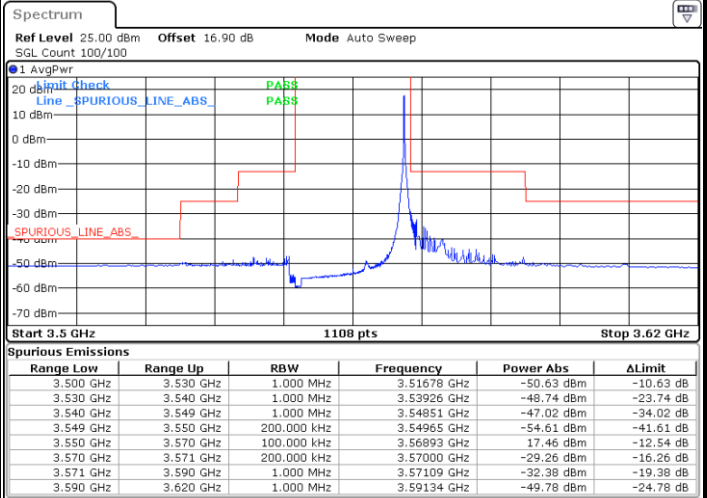
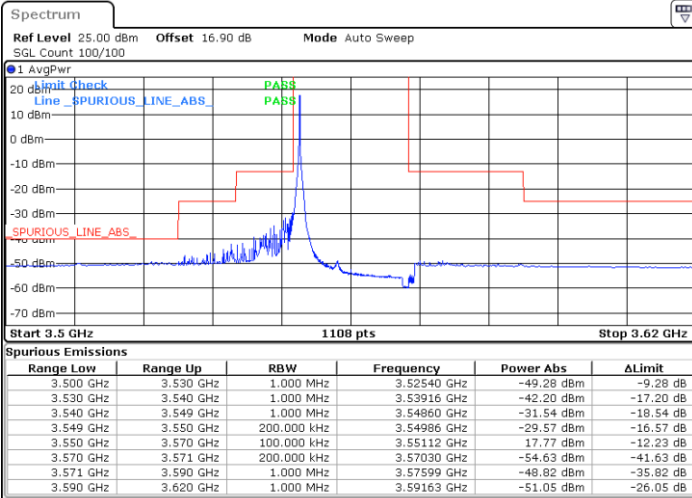


LTE Band 48 / 20MHz

16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

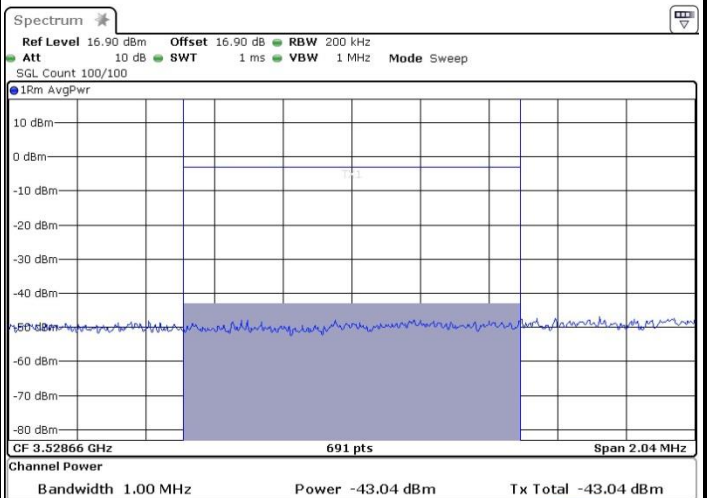
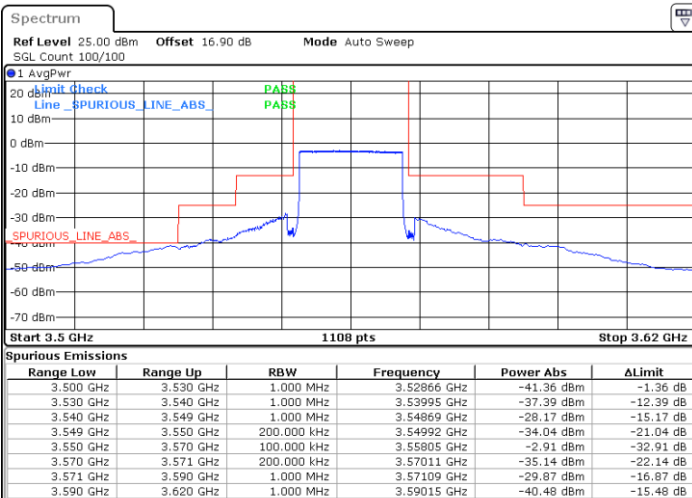


Date: 19_SEP.2023 15:26:17

Date: 19_SEP.2023 15:31:52

Lowest Channel / FullRB

Lowest Channel / FullRB-CP



Date: 19_SEP.2023 16:39:43

Date: 19_SEP.2023 16:41:51

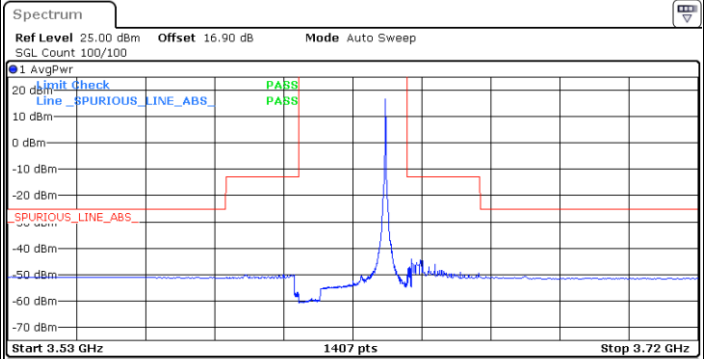
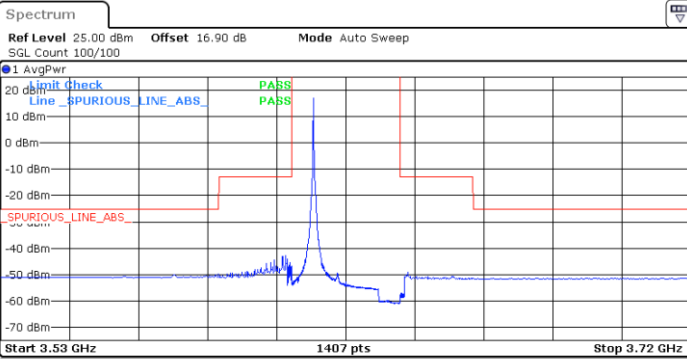


LTE Band 48 / 20MHz

16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.590 GHz	1.000 MHz	3.58985 GHz	-49.85 dBm	-24.85 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60834 GHz	-42.76 dBm	-29.76 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60961 GHz	-45.37 dBm	-32.37 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.61611 GHz	16.99 dBm	-13.01 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64009 GHz	-55.90 dBm	-43.90 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64203 GHz	-49.22 dBm	-36.22 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.71687 GHz	-51.47 dBm	-26.47 dB

Spurious Emissions

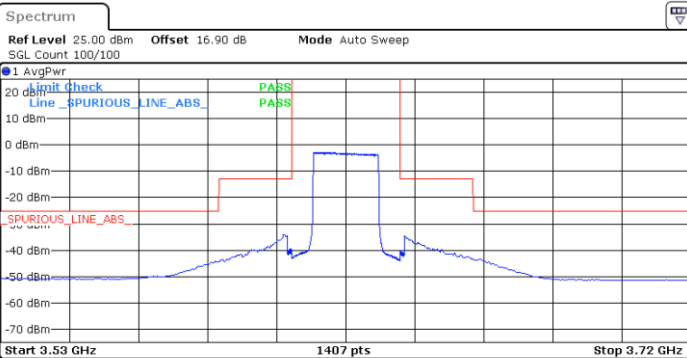
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.590 GHz	1.000 MHz	3.53104 GHz	-50.83 dBm	-25.83 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60608 GHz	-49.92 dBm	-36.92 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60973 GHz	-56.61 dBm	-43.61 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.63394 GHz	16.56 dBm	-13.44 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64051 GHz	-47.11 dBm	-34.11 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64109 GHz	-44.05 dBm	-31.05 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.67239 GHz	-50.74 dBm	-25.74 dB

Date: 19_SEP.2023 16:12:05

Date: 19_SEP.2023 16:18:54

Middle Channel / FullRB

N/A



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.590 GHz	1.000 MHz	3.58996 GHz	-44.24 dBm	-19.24 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60797 GHz	-34.26 dBm	-21.26 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60983 GHz	-39.44 dBm	-26.44 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.61731 GHz	-2.77 dBm	-32.77 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64002 GHz	-40.23 dBm	-27.23 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64109 GHz	-34.36 dBm	-21.36 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.66224 GHz	-43.28 dBm	-18.28 dB

Date: 19_SEP.2023 16:04:49

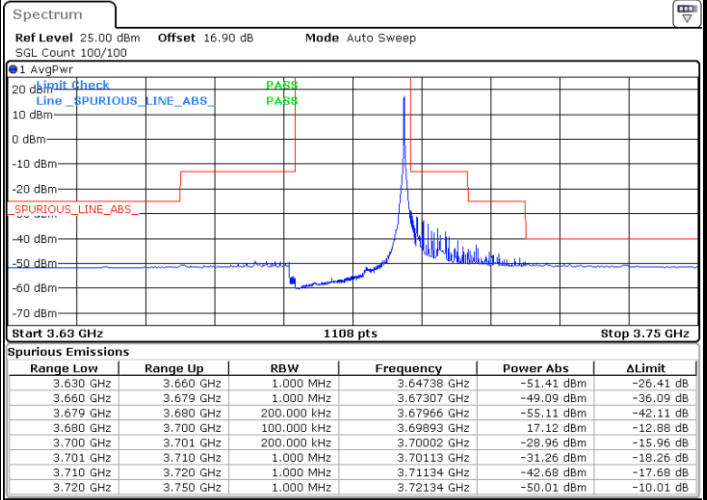
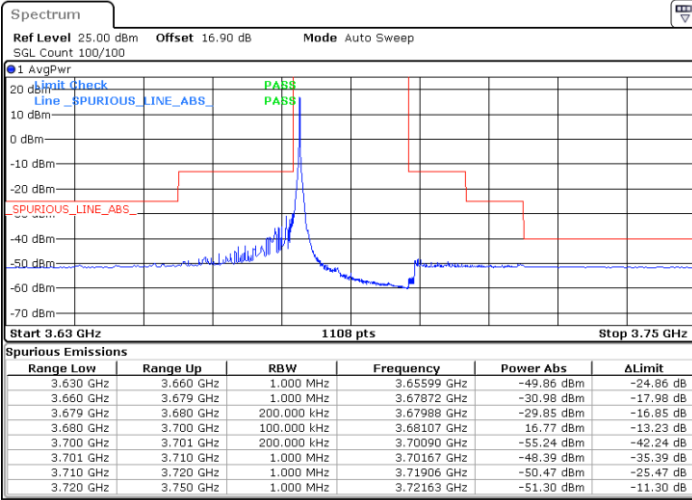


LTE Band 48 / 20MHz

16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

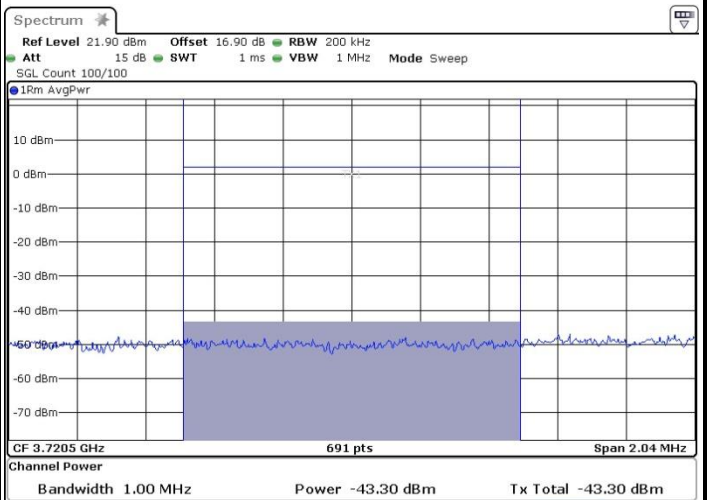
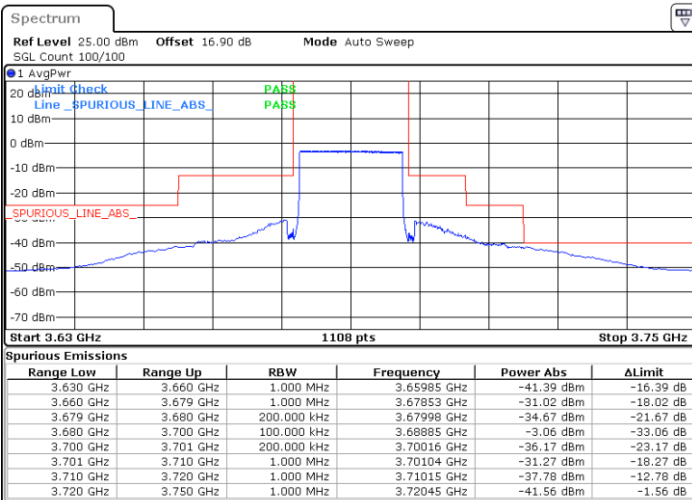


Date: 19_SEP.2023 15:49:14

Date: 19_SEP.2023 15:44:40

Highest Channel / FullRB

Highest Channel / FullRB-CP



Date: 19_SEP.2023 16:43:58

Date: 19_SEP.2023 16:45:10

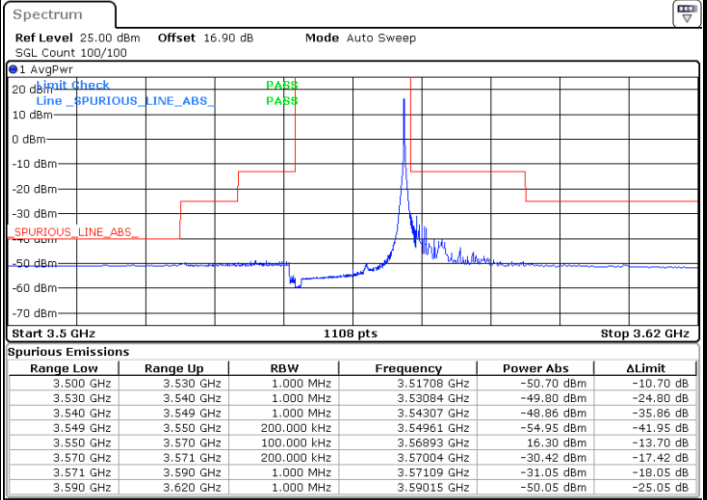
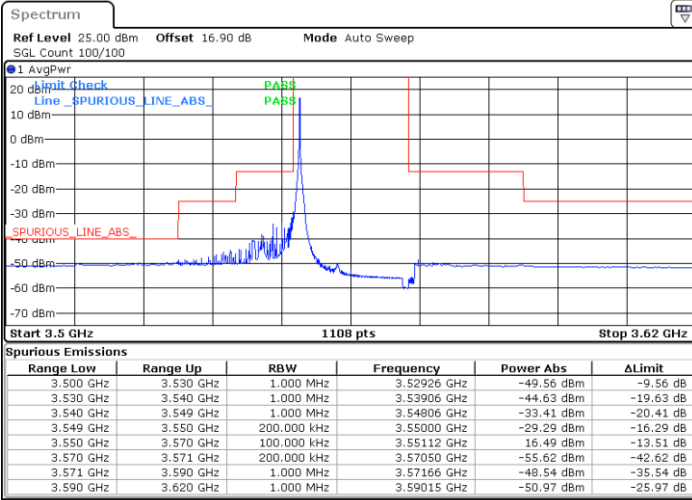


LTE Band 48 / 20MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

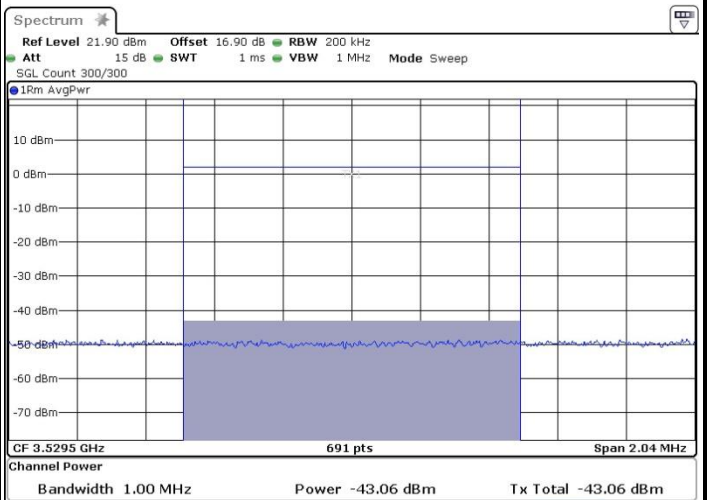
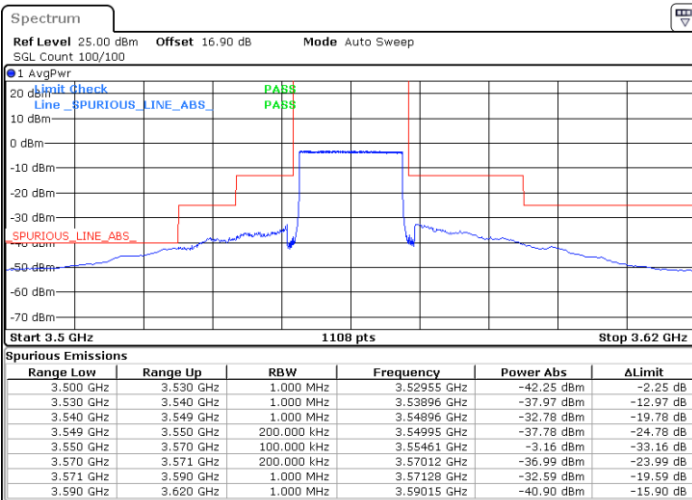


Date: 19_SEP.2023 15:27:59

Date: 19_SEP.2023 15:29:54

Lowest Channel / FullRB

Lowest Channel / FullRB-CP



Date: 19_SEP.2023 15:14:13

Date: 19_SEP.2023 15:15:22

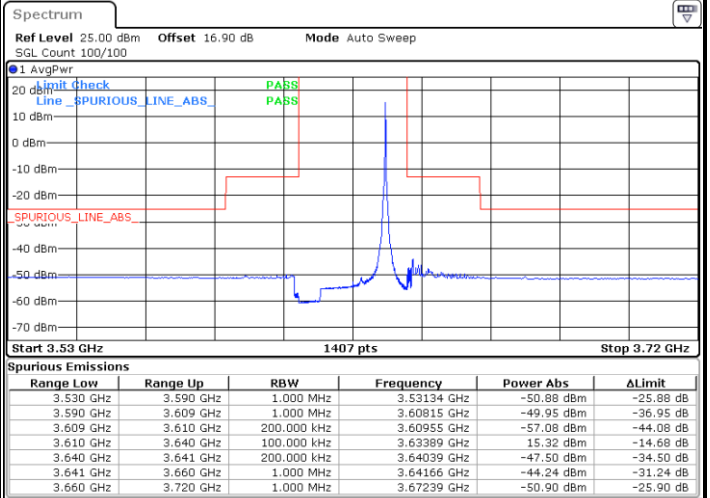
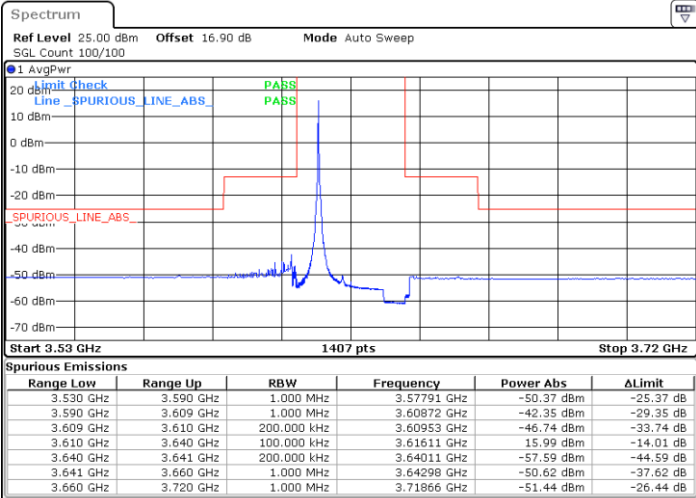


LTE Band 48 / 20MHz

64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

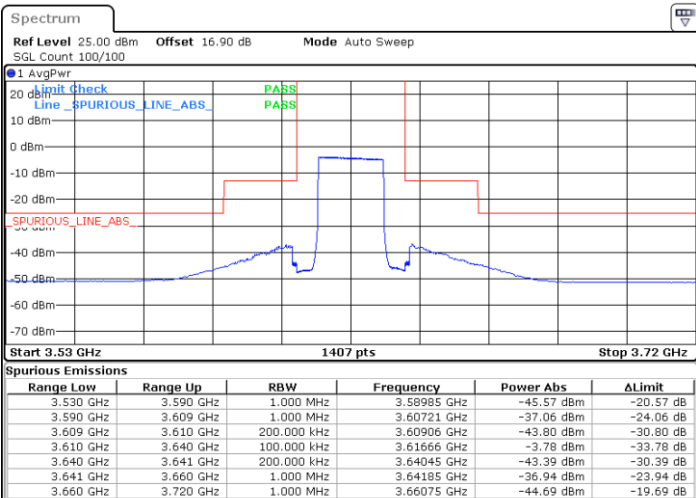


Date: 19_SEP.2023 16:14:36

Date: 19_SEP.2023 16:16:52

Middle Channel / FullRB

N/A



Date: 19_SEP.2023 16:02:39

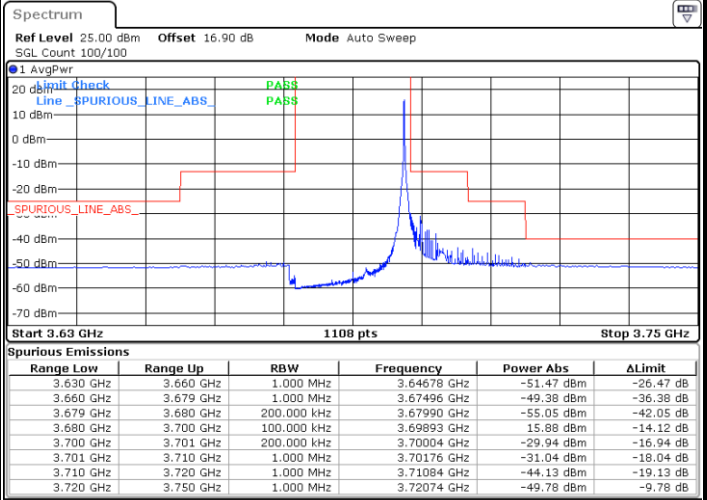
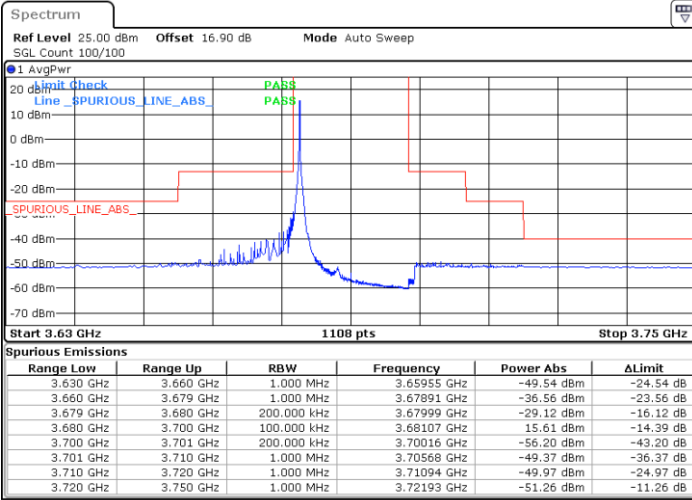


LTE Band 48 / 20MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

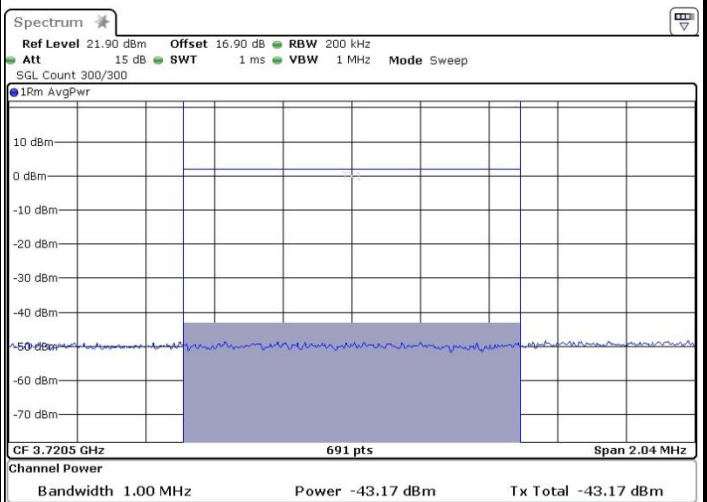
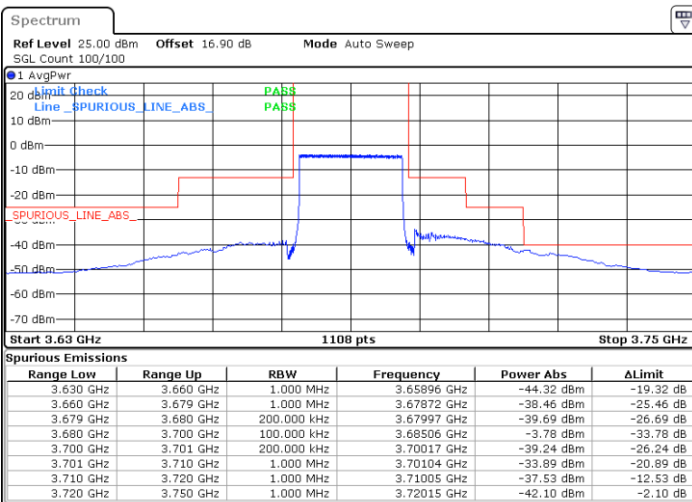


Date: 19_SEP.2023 15:47:52

Date: 19_SEP.2023 15:46:13

Highest Channel / FullIRB

Highest Channel / FullIRB-CP



Date: 19_SEP.2023 15:58:46

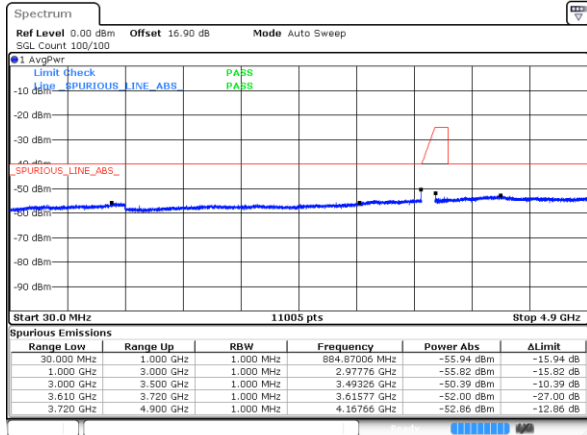
Date: 19_SEP.2023 16:00:04



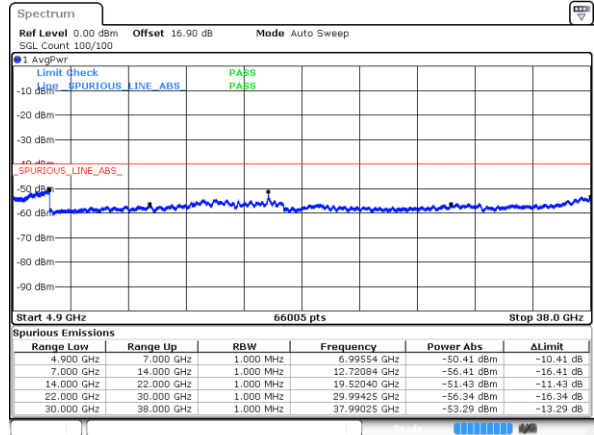
Conducted Spurious Emission

LTE Band 48 / 5MHz

Lowest Channel / QPSK

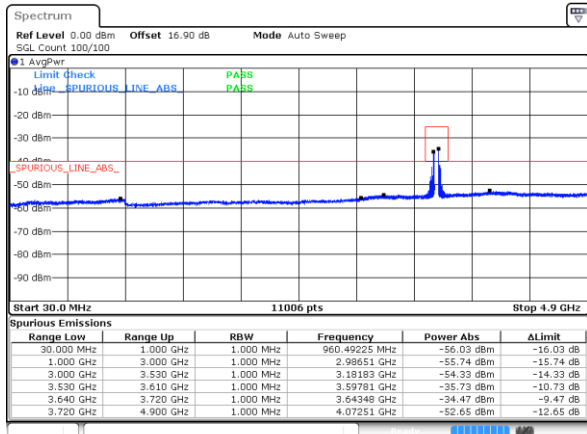


Date: 19 SEP 2023 21:05:37

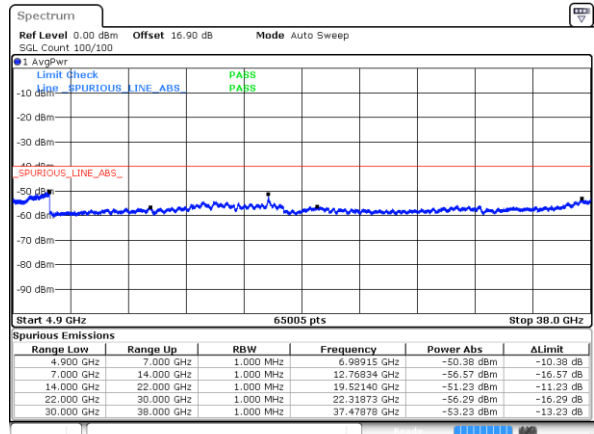


Date: 19 SEP 2023 22:37:22

Middle Channel / QPSK

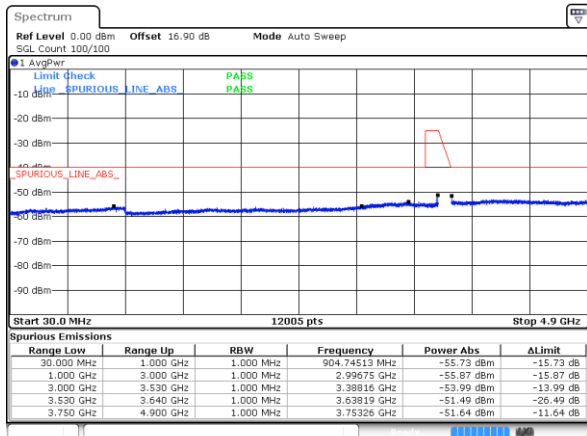


Date: 19 SEP 2023 22:14:42

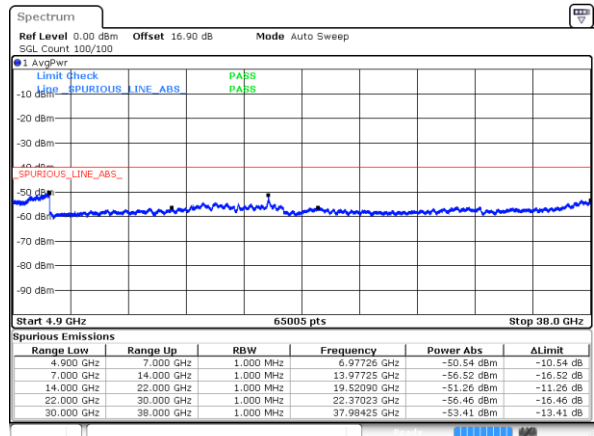


Date: 19 SEP 2023 22:38:28

Highest Channel / QPSK



Date: 19 SEP 2023 21:01:10

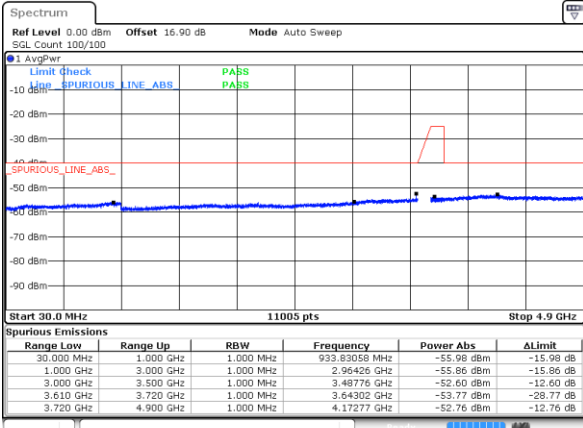


Date: 19 SEP 2023 22:41:09

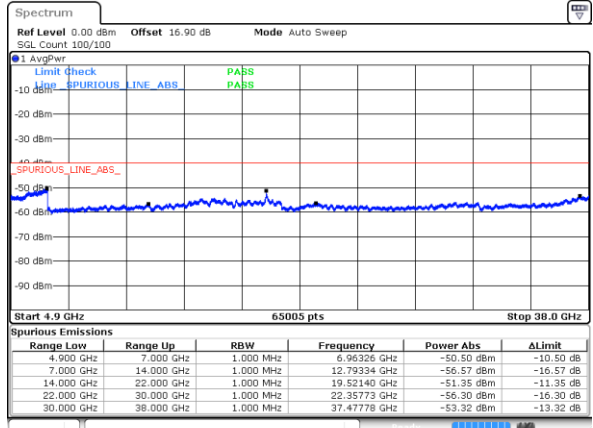


LTE Band 48 / 10MHz

Lowest Channel / QPSK

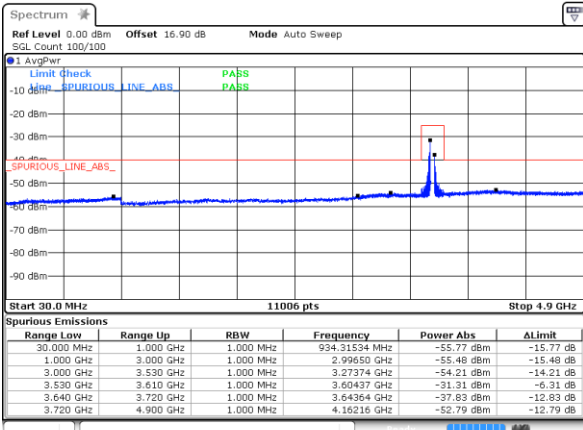


Date: 19 SEP 2023 21:08:25

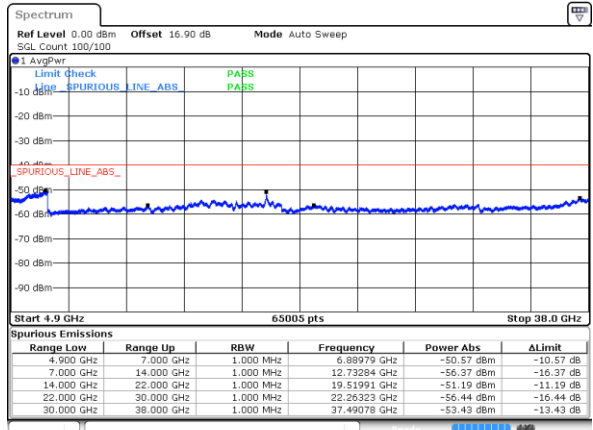


Date: 19 SEP 2023 22:43:12

Middle Channel / QPSK

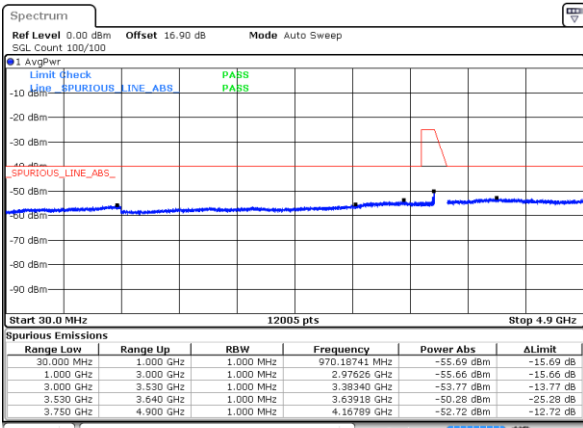


Date: 19 SEP 2023 22:48:10

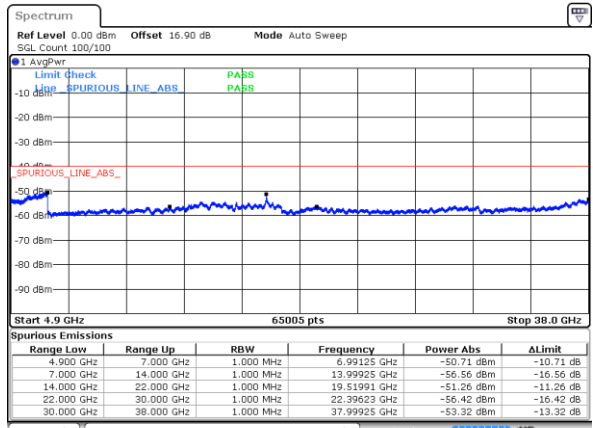


Date: 19 SEP 2023 22:44:46

Highest Channel / QPSK



Date: 19 SEP 2023 21:22:06

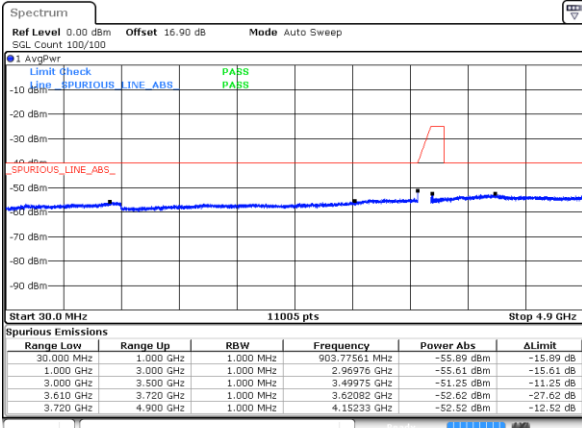


Date: 19 SEP 2023 22:51:27

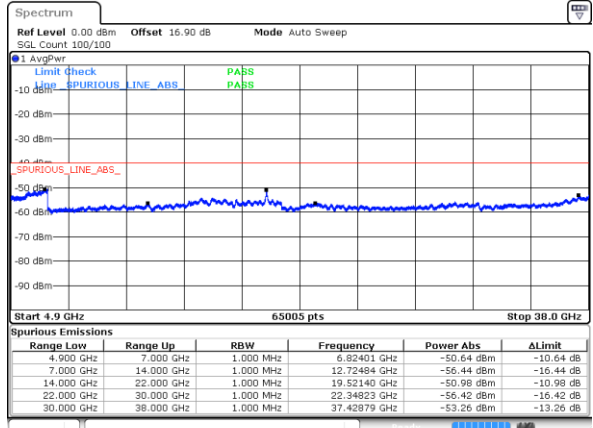


LTE Band 48 / 15MHz

Lowest Channel / QPSK

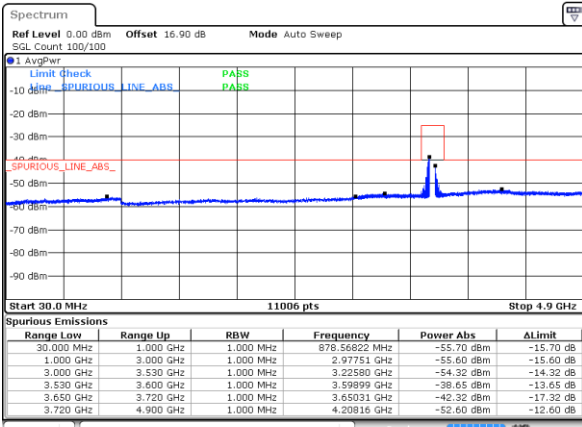


Date: 19 SEP 2023 21:28:29

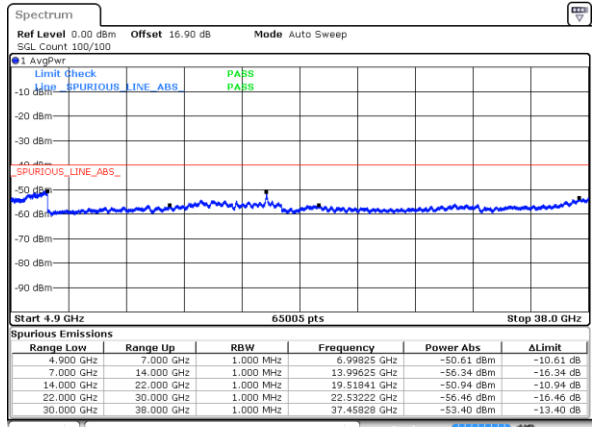


Date: 19 SEP 2023 22:53:23

Middle Channel / QPSK

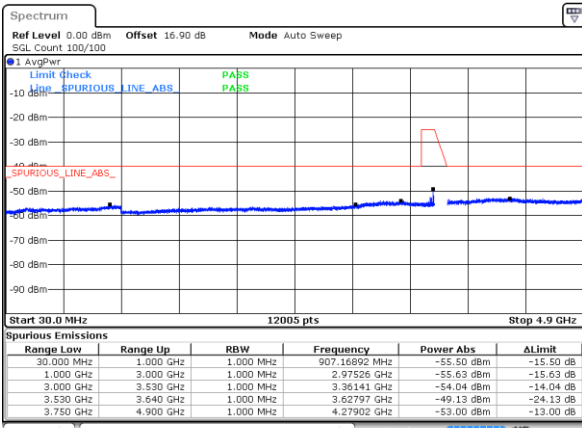


Date: 19 SEP 2023 21:35:20

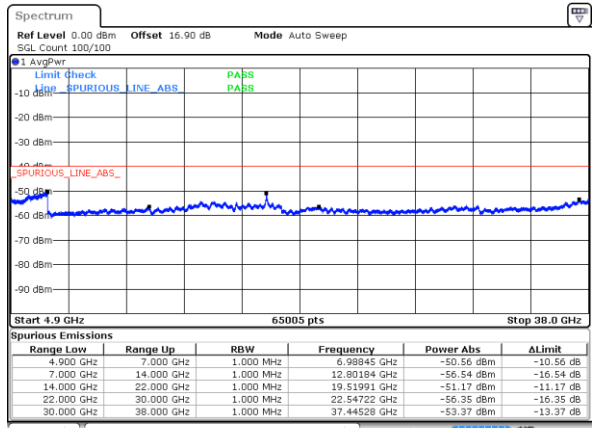


Date: 19 SEP 2023 22:54:48

Highest Channel / QPSK



Date: 19 SEP 2023 21:42:11

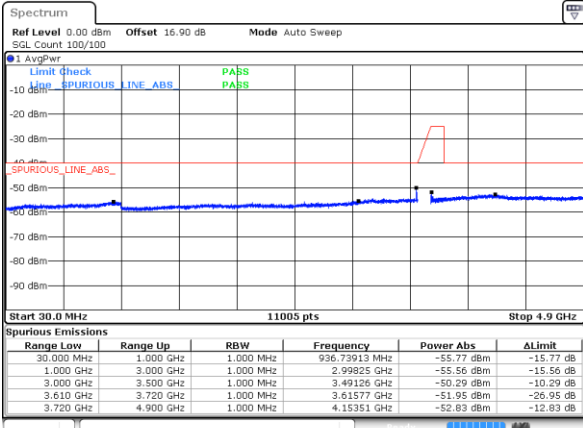


Date: 19 SEP 2023 22:56:14

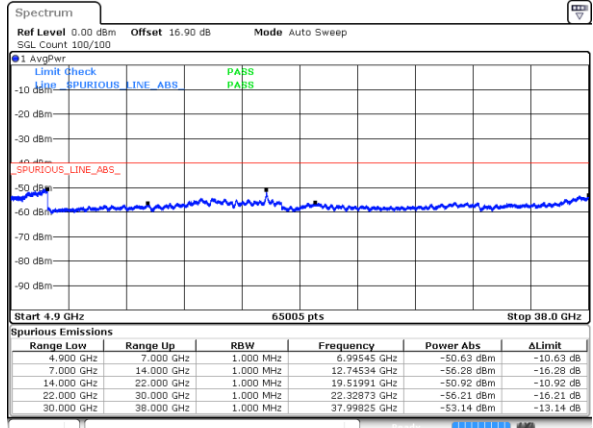


LTE Band 48 / 20MHz

Lowest Channel / QPSK

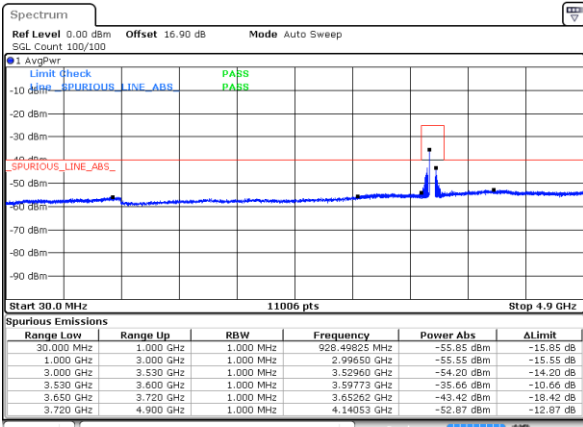


Date: 19 SEP 2023 21:48:35

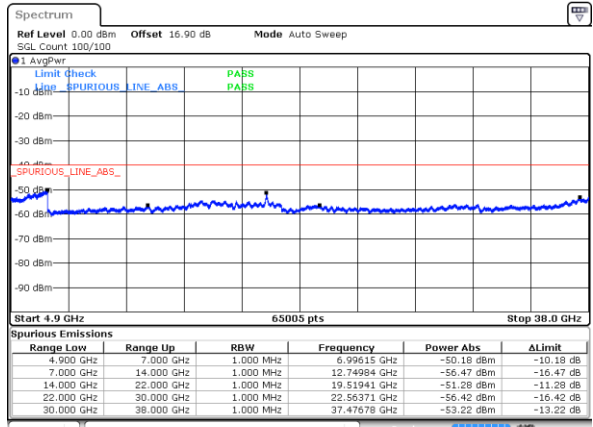


Date: 19 SEP 2023 22:58:10

Middle Channel / QPSK

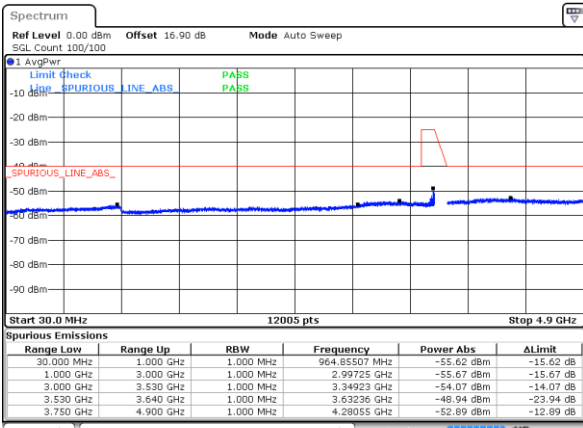


Date: 19 SEP 2023 21:55:28

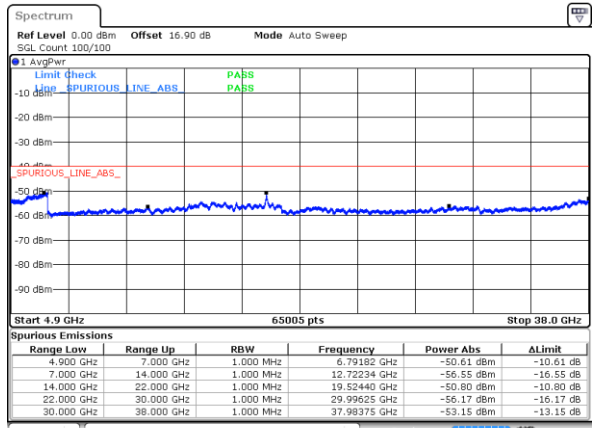


Date: 19 SEP 2023 22:59:58

Highest Channel / QPSK



Date: 19 SEP 2023 22:02:17



Date: 19 SEP 2023 23:01:41



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	0.0006	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0009	

Note:

- 1. Normal Voltage = 7.82 V. ; Battery End Point = 6.8 V. ; Maximum Voltage = 9.0 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band CA_48C

26dB Bandwidth

Mode	LTE Band 48C : 26dB BW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	25.18	30.27	35.11	25.28
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	35.25	40.04	-

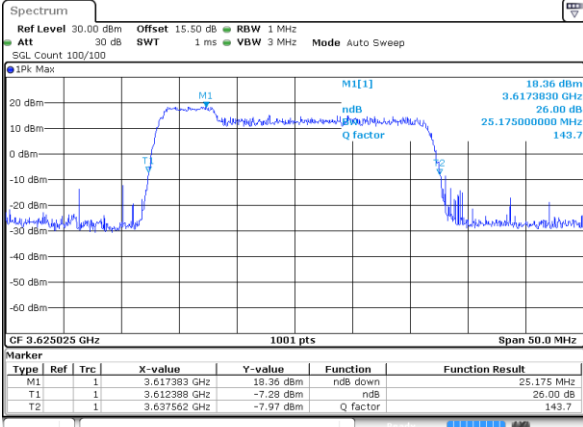
Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	25.13	30.03	35.18	25.08
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.39	35.04	40.04	-



LTE Band 48C

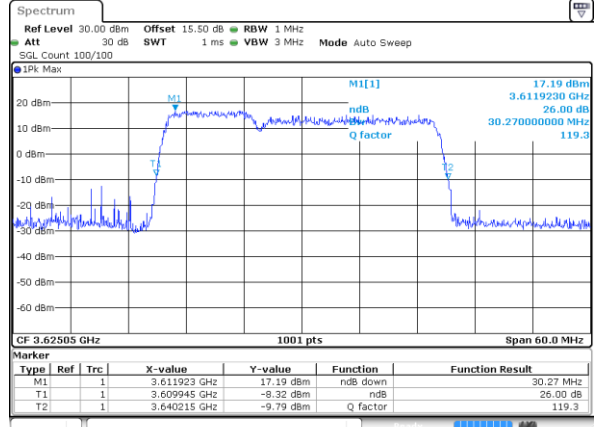
QPSK

Middle Channel / 5MHz+20MHz



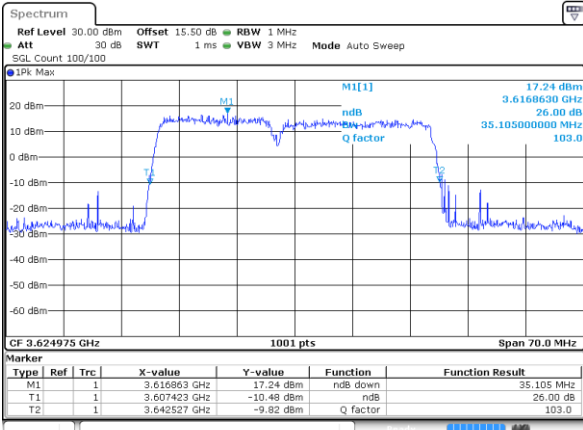
Date: 12 SEP 2023 13:45:48

Middle Channel / 10MHz+20MHz



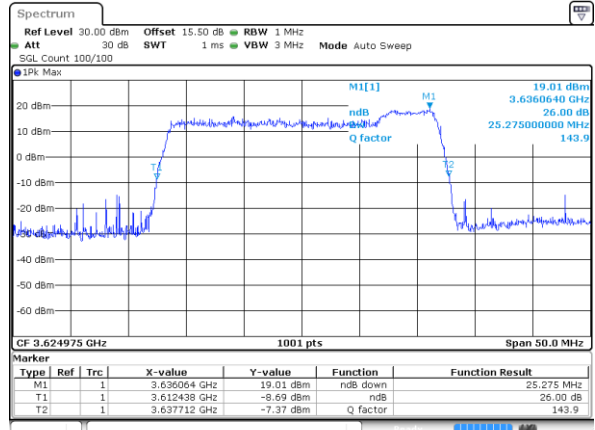
Date: 12 SEP 2023 19:34:07

Middle Channel / 15MHz+20MHz



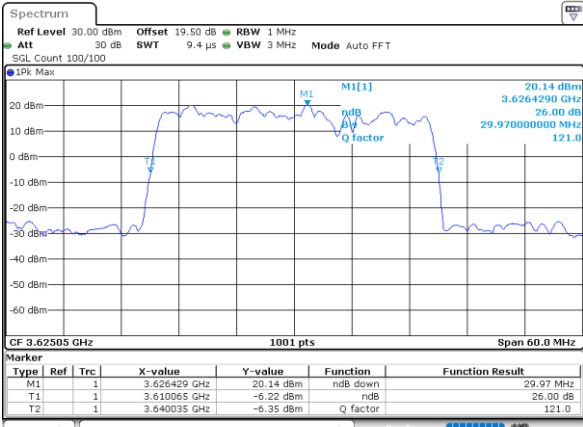
Date: 12 SEP 2023 21:22:41

Middle Channel / 20MHz+5MHz



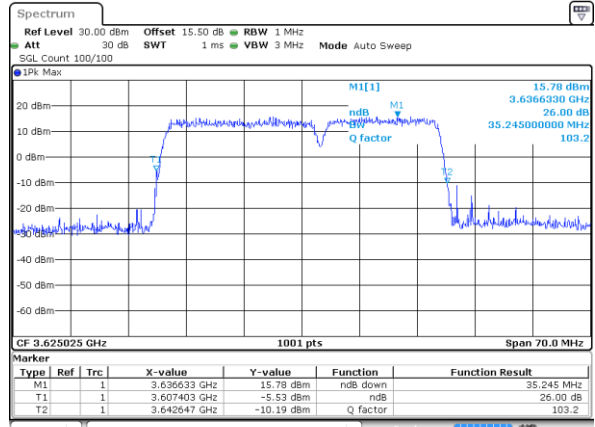
Date: 12 SEP 2023 14:56:59

Middle Channel / 20MHz+10MHz



Date: 16 SEP 2023 16:38:57

Middle Channel / 20MHz+15MHz



Date: 12 SEP 2023 17:17:31

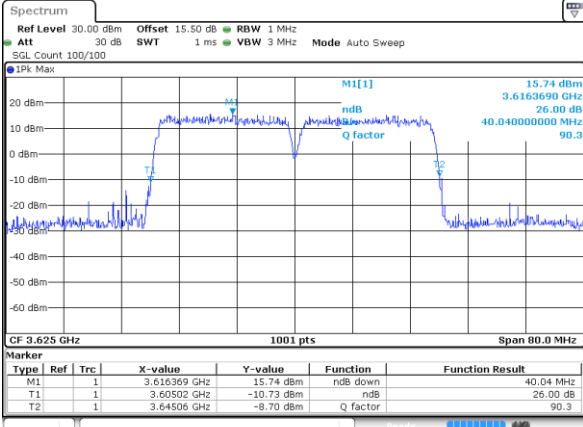


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A

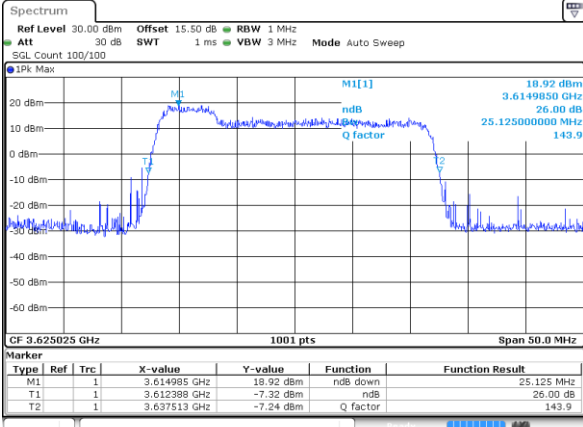




LTE Band 48C

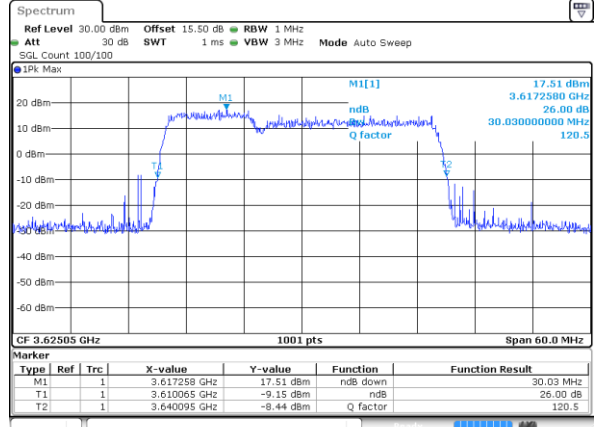
16QAM

Middle Channel / 5MHz+20MHz



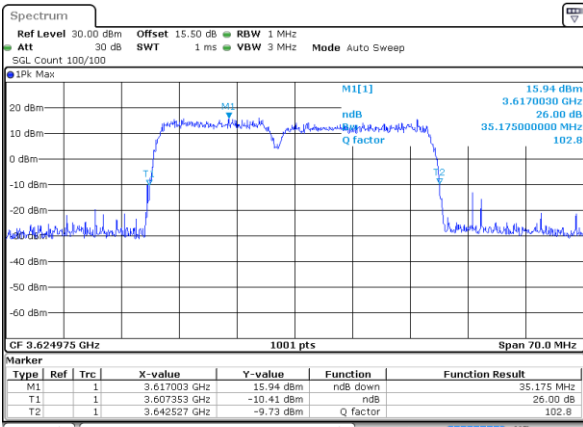
Date: 12 SEP 2023 13:46:24

Middle Channel / 10MHz+20MHz



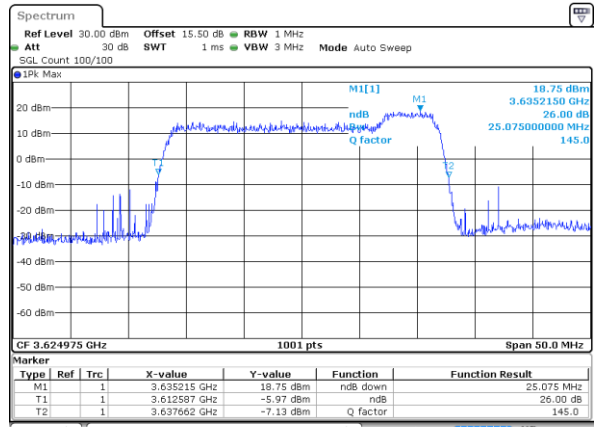
Date: 12 SEP 2023 19:34:43

Middle Channel / 15MHz+20MHz



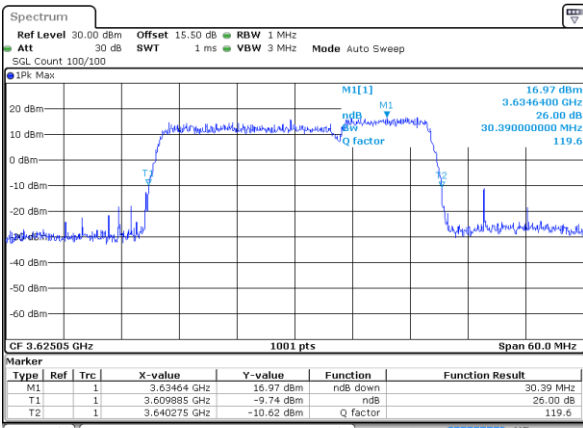
Date: 12 SEP 2023 21:23:17

Middle Channel / 20MHz+5MHz



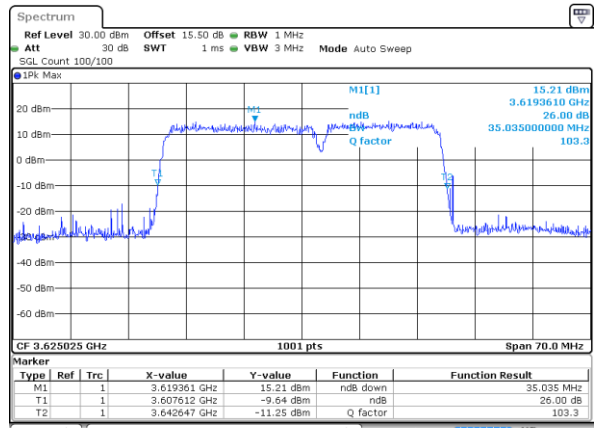
Date: 12 SEP 2023 14:57:35

Middle Channel / 20MHz+10MHz



Date: 12 SEP 2023 16:07:03

Middle Channel / 20MHz+15MHz



Date: 12 SEP 2023 17:18:07

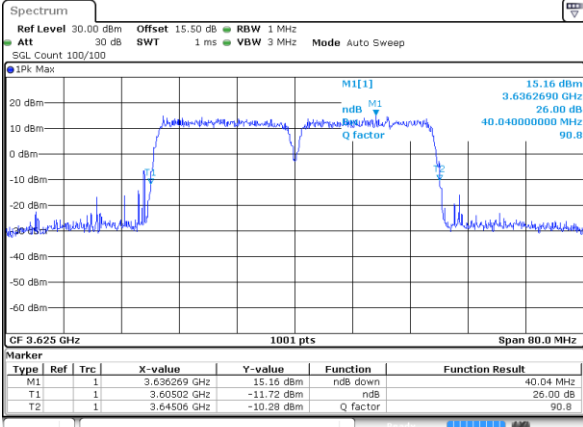


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 12 SEP 2023 18:38:31



Occupied Bandwidth

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.33	28.11	32.87	23.38
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.05	32.94	37.80	-

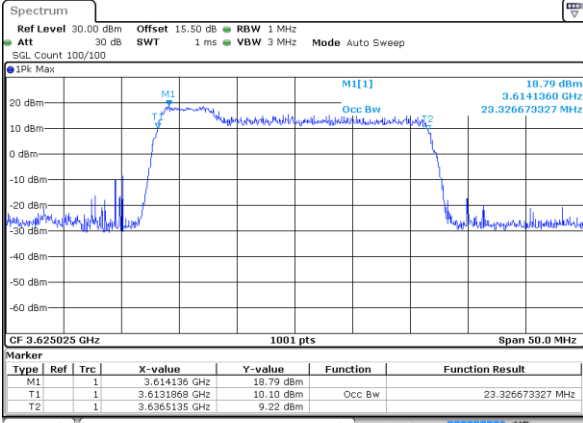
Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.38	27.99	32.87	23.38
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.11	32.94	37.80	-



LTE Band 48C

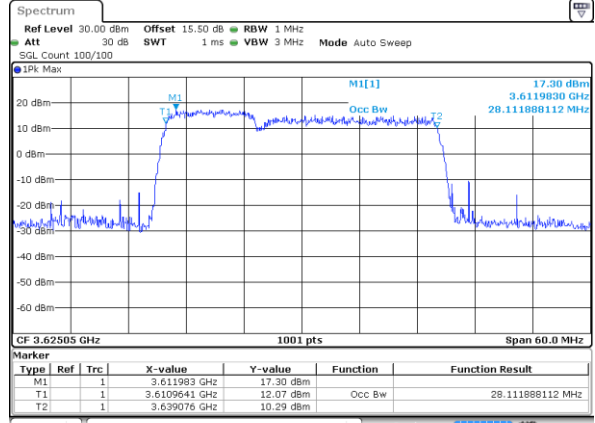
QPSK

Middle Channel / 5MHz+20MHz



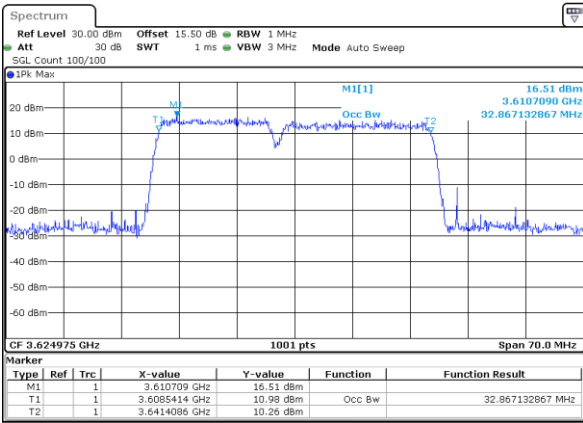
Date: 12 SEP 2023 13:45:12

Middle Channel / 10MHz+20MHz



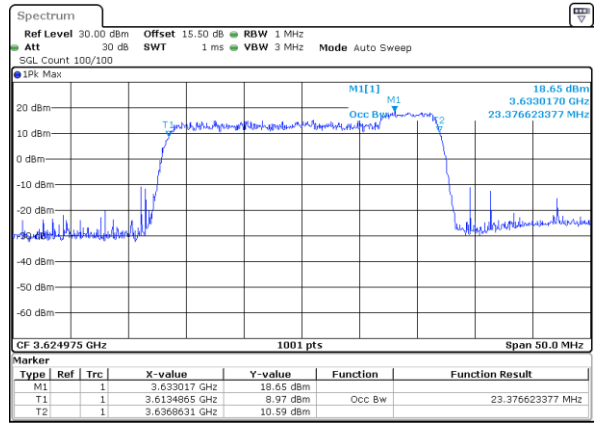
Date: 12 SEP 2023 19:33:32

Middle Channel / 15MHz+20MHz



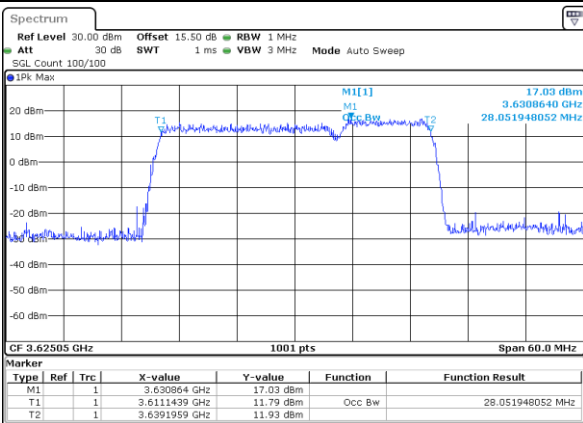
Date: 12 SEP 2023 21:22:05

Middle Channel / 20MHz+5MHz



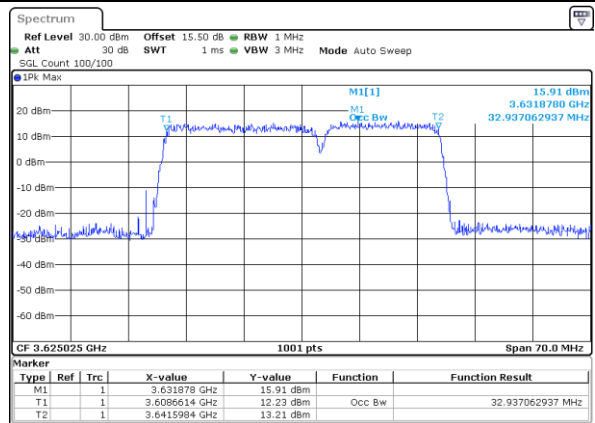
Date: 12 SEP 2023 14:56:23

Middle Channel / 20MHz+10MHz



Date: 12 SEP 2023 16:05:47

Middle Channel / 20MHz+15MHz



Date: 12 SEP 2023 17:16:55

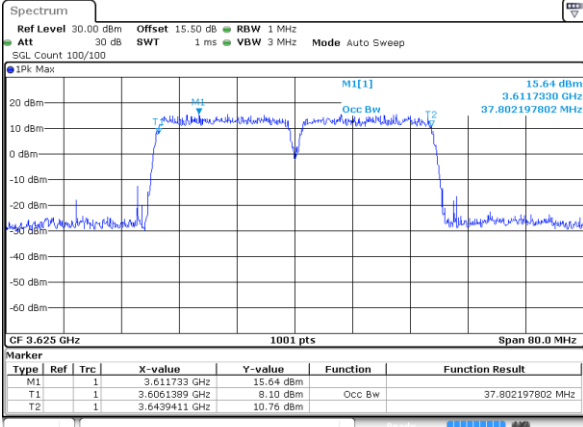


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A



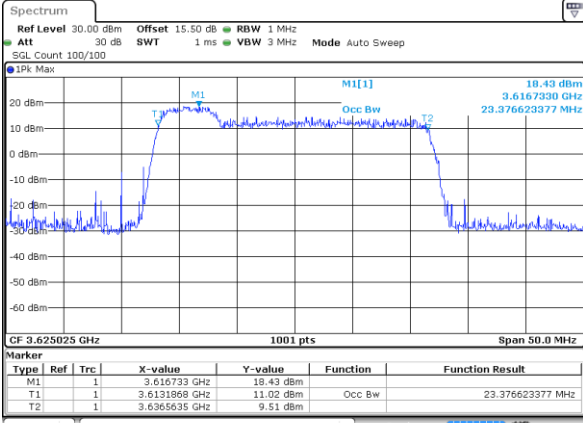
Date: 12 SEP 2023 18:37:30



LTE Band 48C

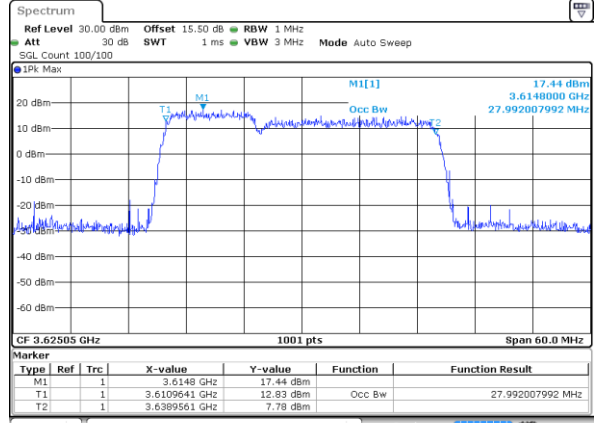
16QAM

Middle Channel / 5MHz+20MHz



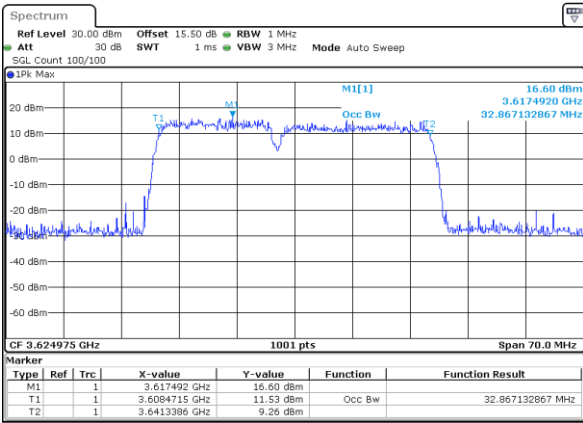
Date: 12 SEP 2023 13:46:59

Middle Channel / 10MHz+20MHz



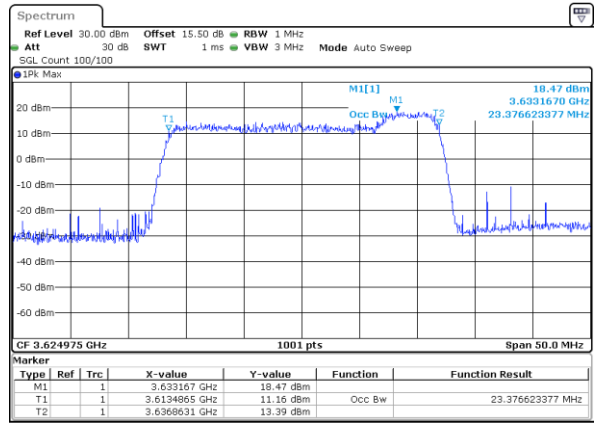
Date: 12 SEP 2023 19:35:19

Middle Channel / 15MHz+20MHz



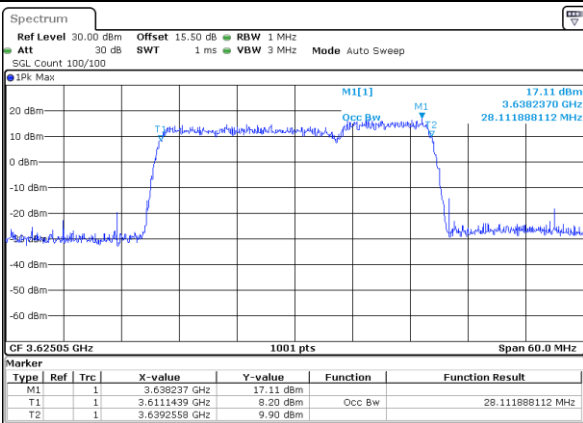
Date: 12 SEP 2023 21:23:52

Middle Channel / 20MHz+5MHz



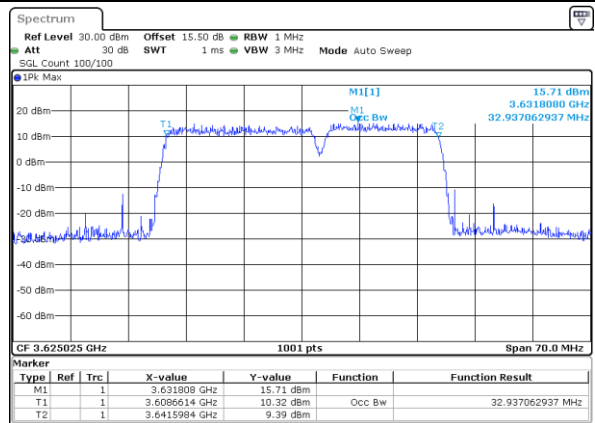
Date: 12 SEP 2023 14:58:11

Middle Channel / 20MHz+10MHz



Date: 12 SEP 2023 16:07:38

Middle Channel / 20MHz+15MHz



Date: 12 SEP 2023 17:18:42

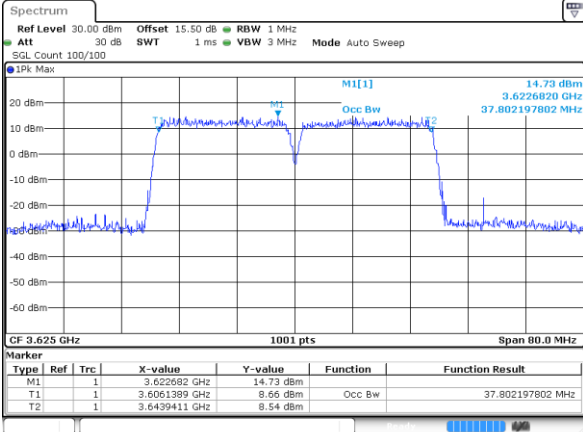


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

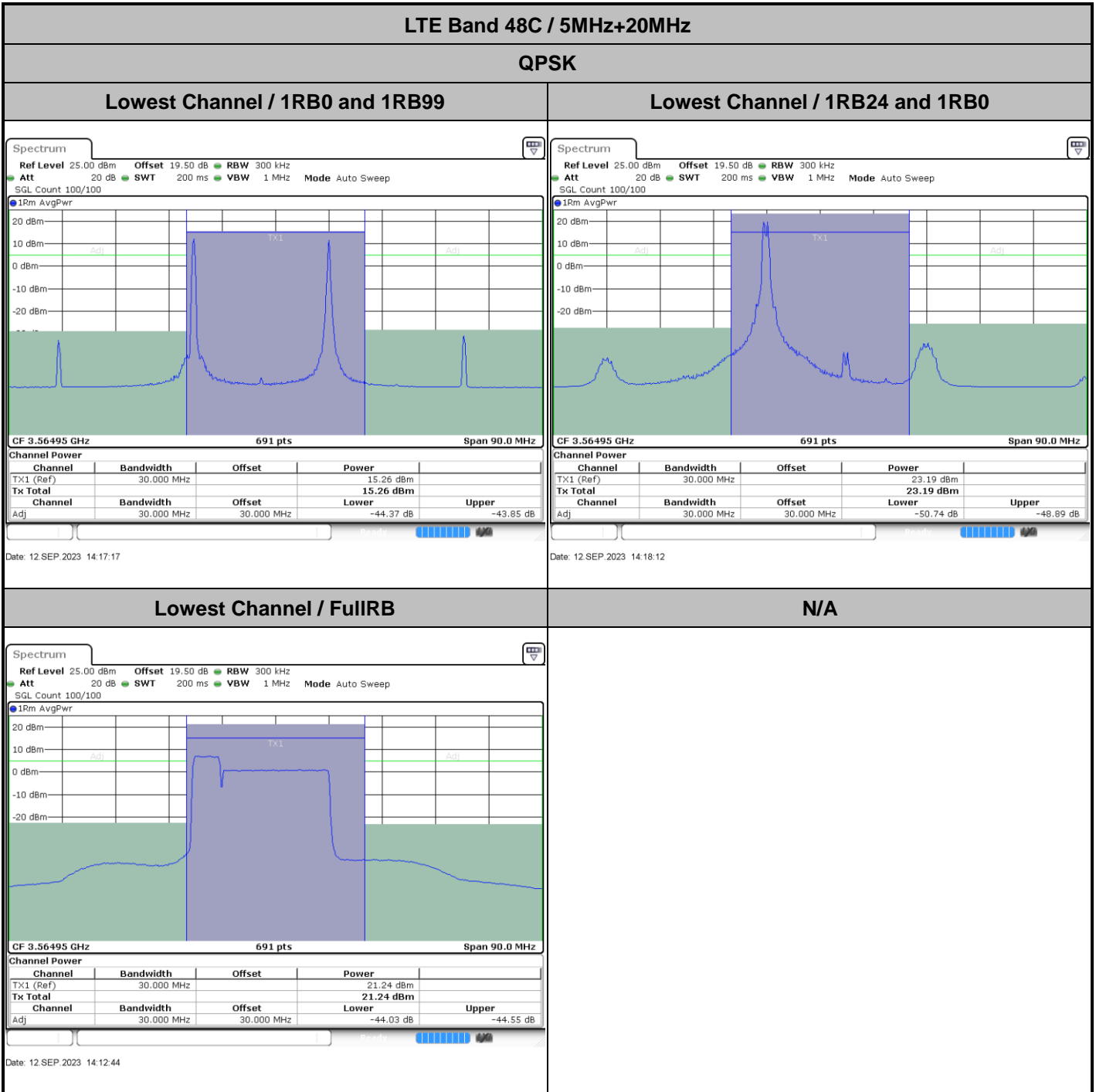
N/A



Date: 12 SEP 2023 18:39:02



ACLR



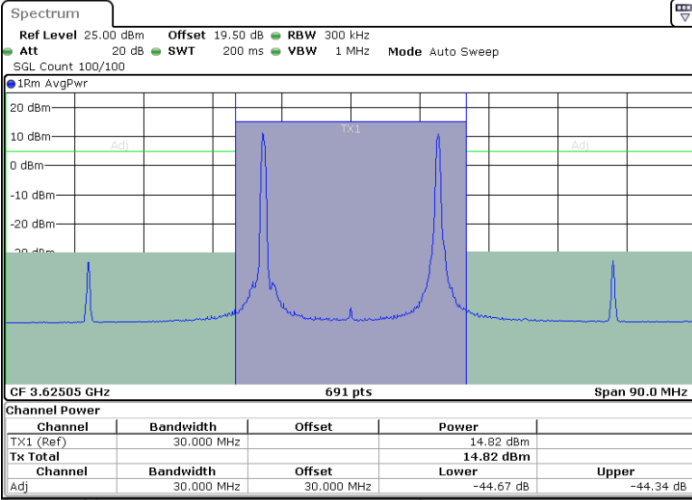


LTE Band 48C / 5MHz+20MHz

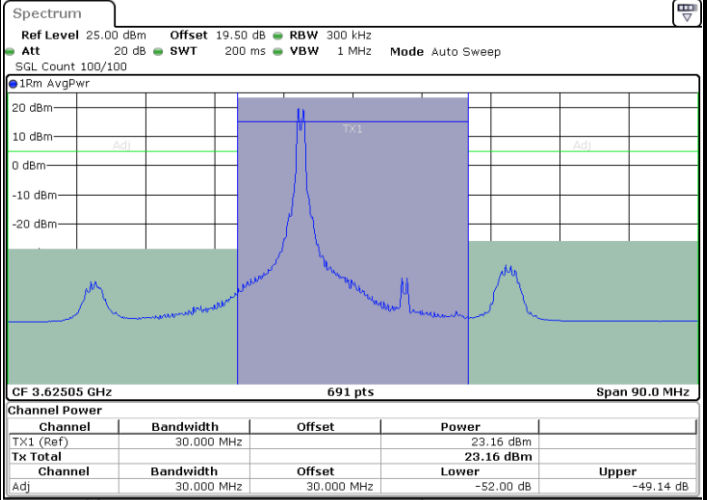
QPSK

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB24 and 1RB0



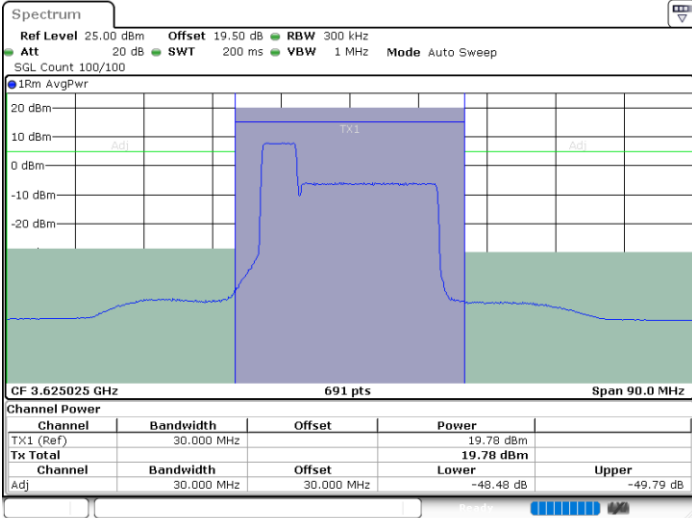
Date: 12 SEP 2023 13:54:46



Date: 12 SEP 2023 13:55:40

Middle Channel / FullIRB

N/A



Date: 16 SEP 2023 16:46:36

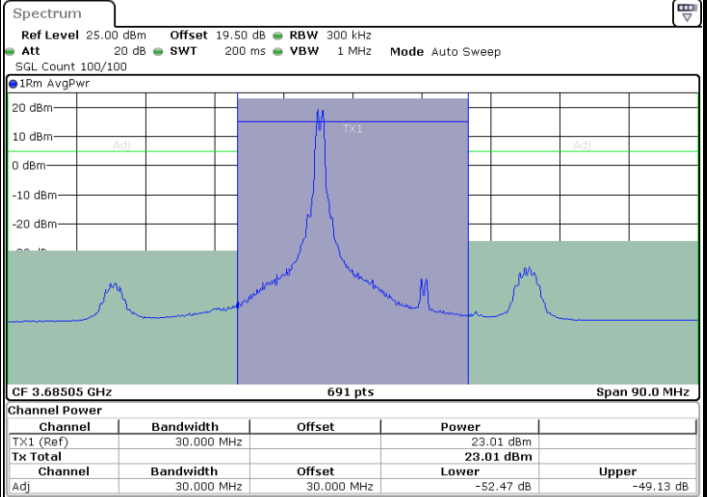
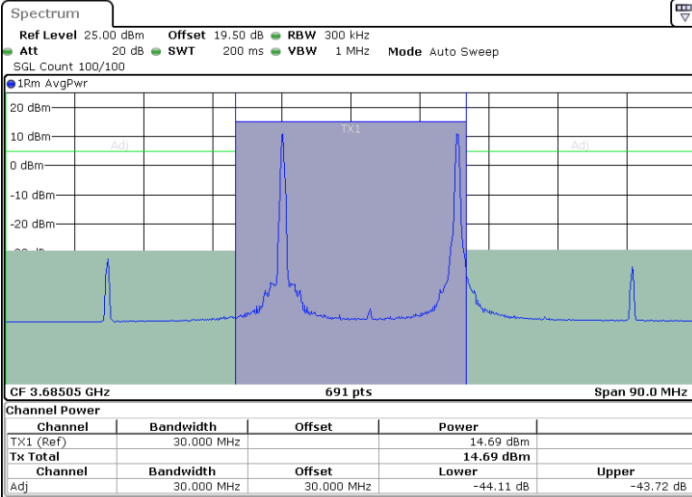


LTE Band 48C / 5MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB24 and 1RB0

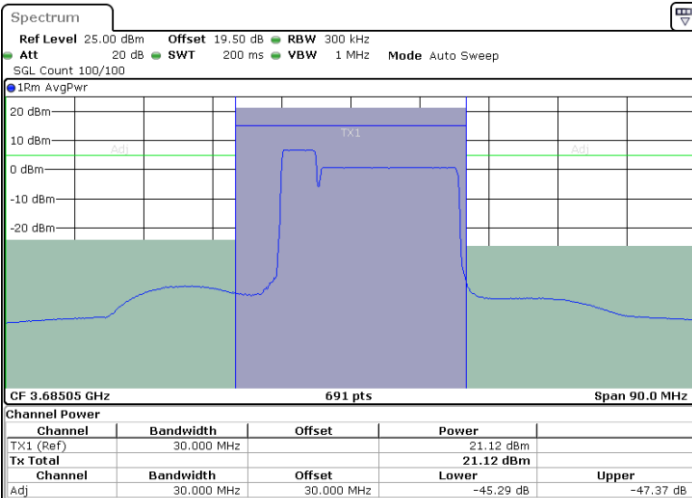


Date: 12 SEP 2023 14:46:10

Date: 12 SEP 2023 14:47:04

Highest Channel / FullRB

N/A



Date: 12 SEP 2023 14:41:37

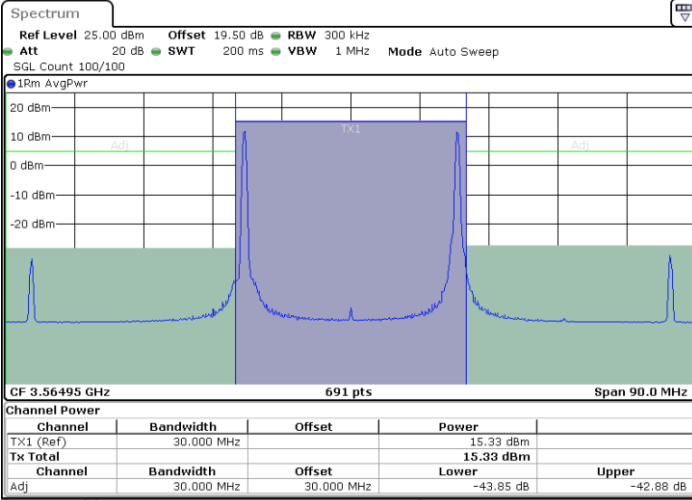


LTE Band 48C / 10MHz+20MHz

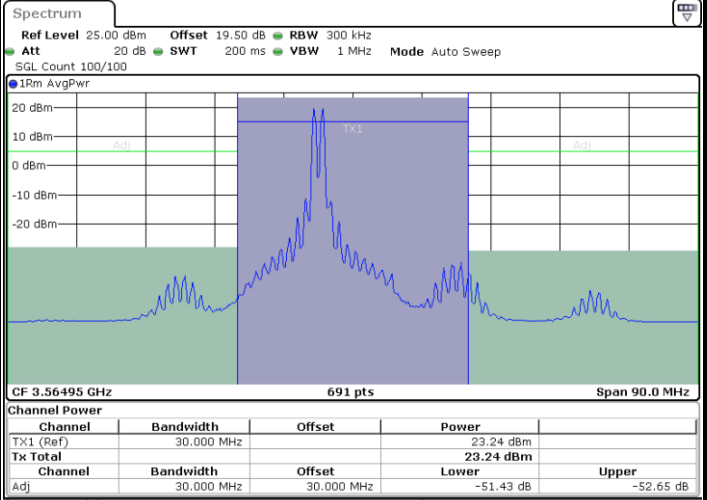
QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB49 and 1RB0



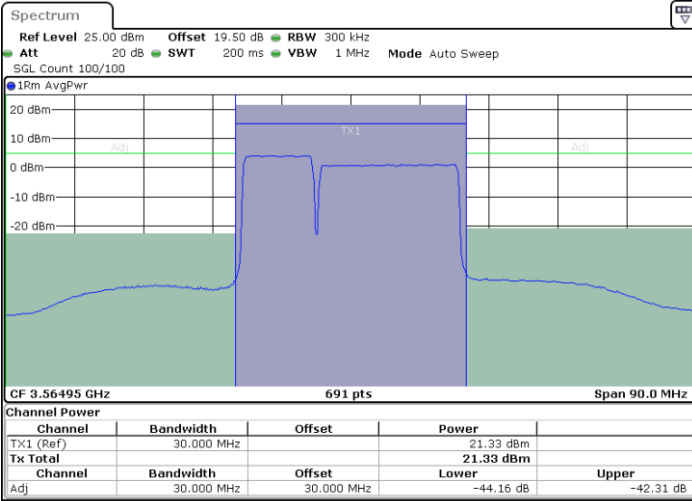
Date: 12 SEP 2023 20:51:55



Date: 12 SEP 2023 20:52:50

Lowest Channel / FullIRB

N/A



Date: 12 SEP 2023 20:47:21

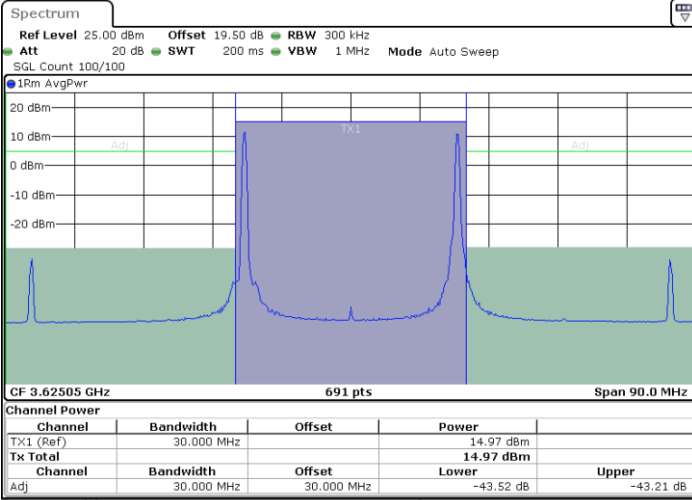


LTE Band 48C / 10MHz+20MHz

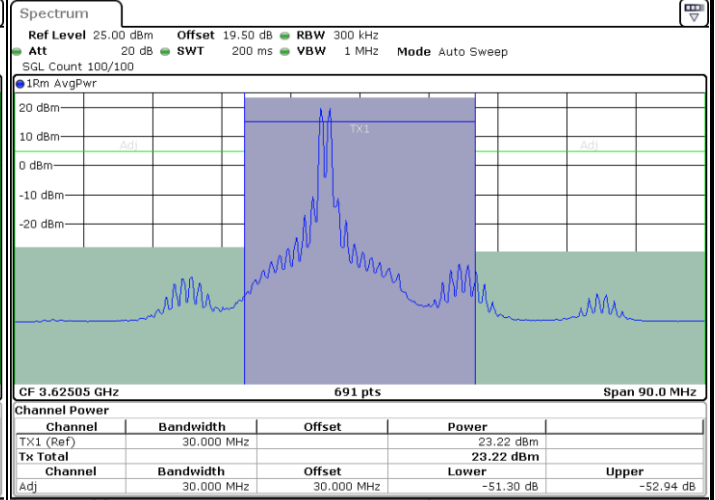
QPSK

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB49 and 1RB0



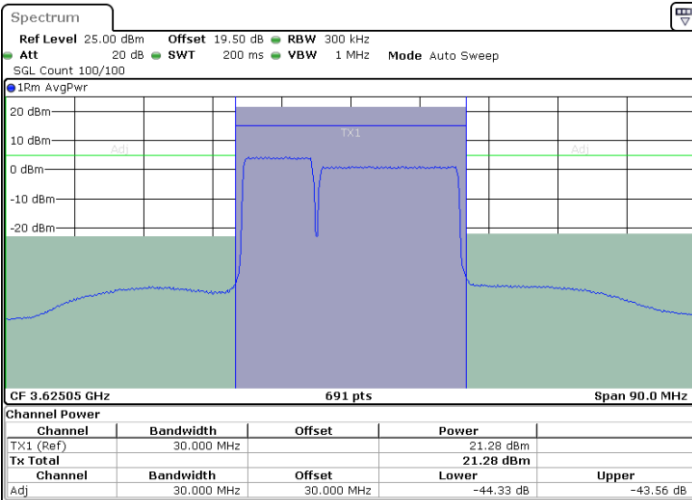
Date: 12 SEP 2023 19:42:11



Date: 12 SEP 2023 19:43:05

Middle Channel / FullIRB

N/A



Date: 12 SEP 2023 19:37:38

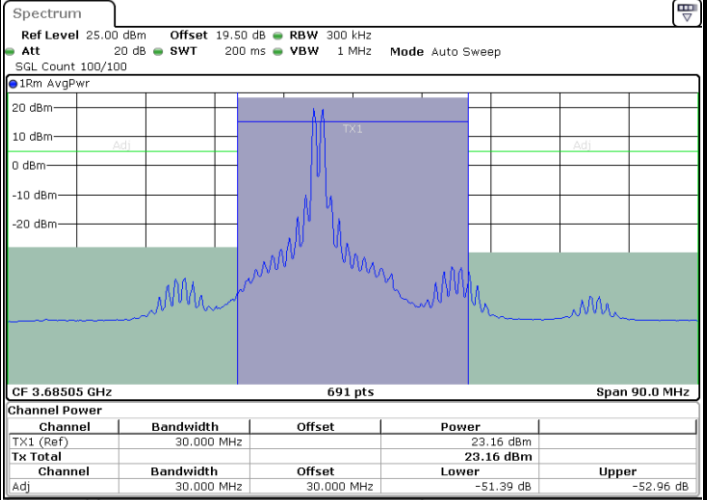
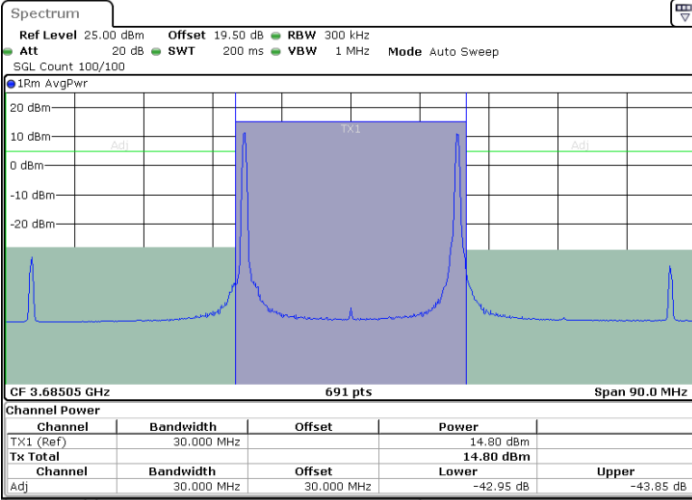


LTE Band 48C / 10MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB49 and 1RB0

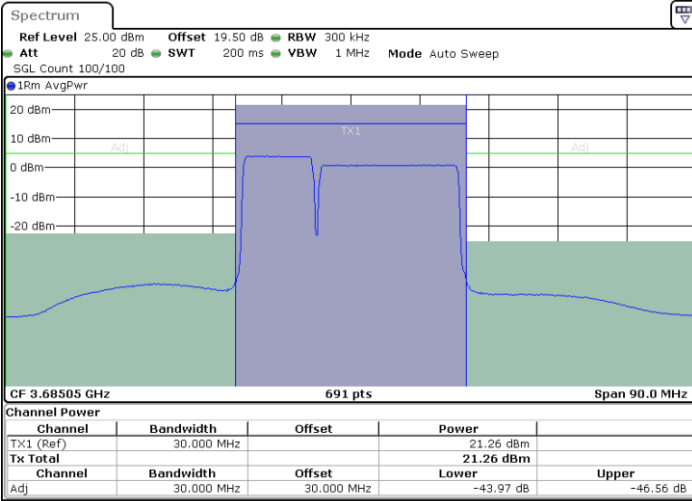


Date: 12 SEP 2023 21:12:04

Date: 12 SEP 2023 21:12:59

Highest Channel / FullRB

N/A



Date: 12 SEP 2023 21:07:31

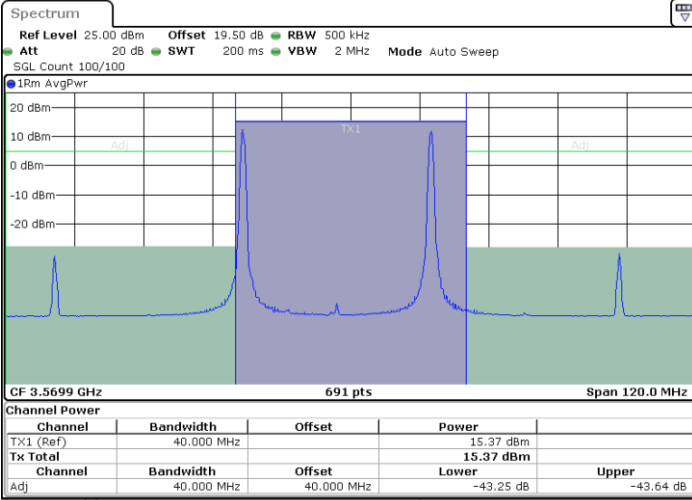


LTE Band 48C / 15MHz+20MHz

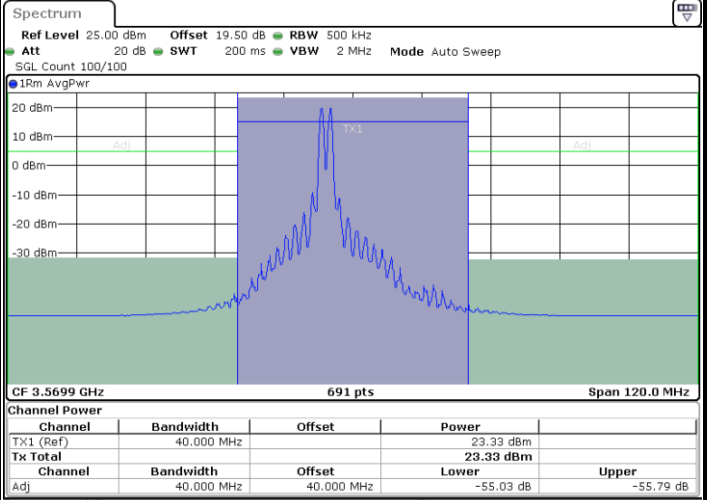
QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB74 and 1RB0



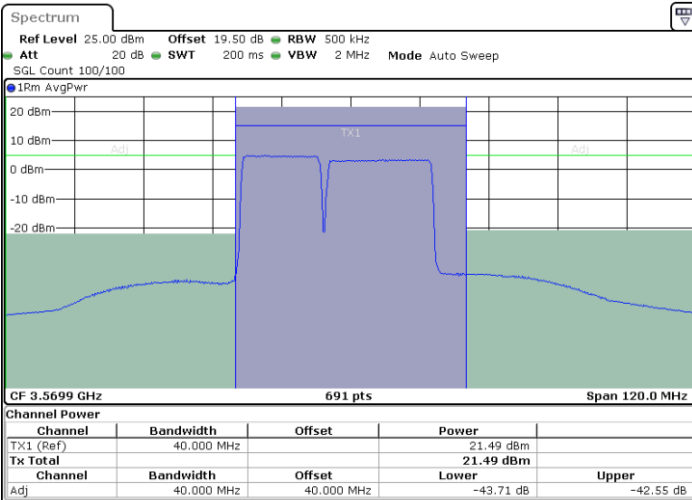
Date: 12 SEP 2023 21:56:38



Date: 12 SEP 2023 21:57:33

Lowest Channel / FullIRB

N/A



Date: 12 SEP 2023 21:52:04

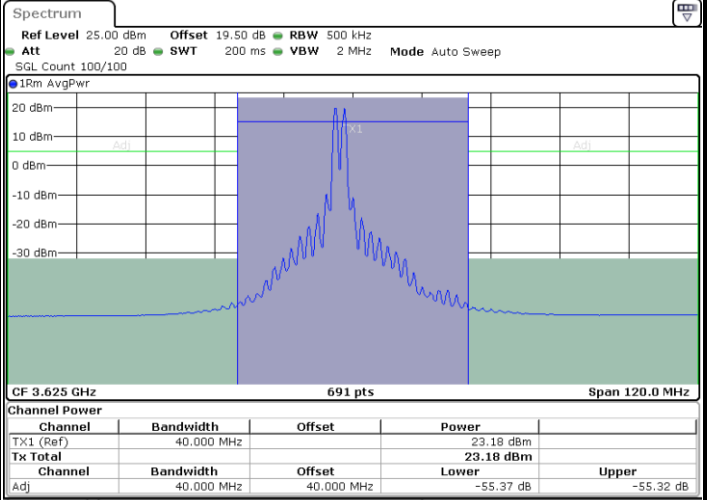
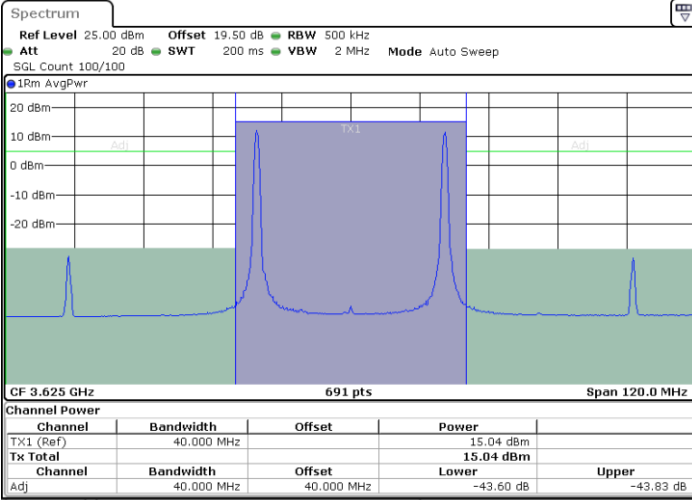


LTE Band 48C / 15MHz+20MHz

QPSK

Middle Channel / 1RB0 and 1RB9

Middle Channel / 1RB74 and 1RB0

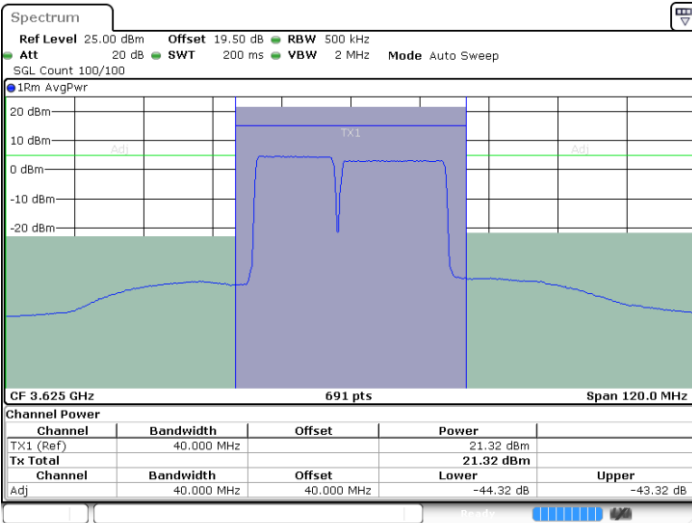


Date: 12 SEP 2023 21:30:45

Date: 12 SEP 2023 21:31:40

Middle Channel / FullIRB

N/A



Date: 12 SEP 2023 21:26:12

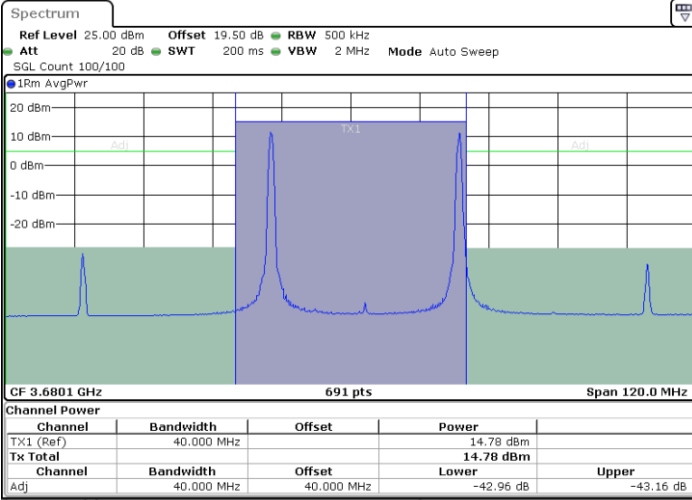


LTE Band 48C / 15MHz+20MHz

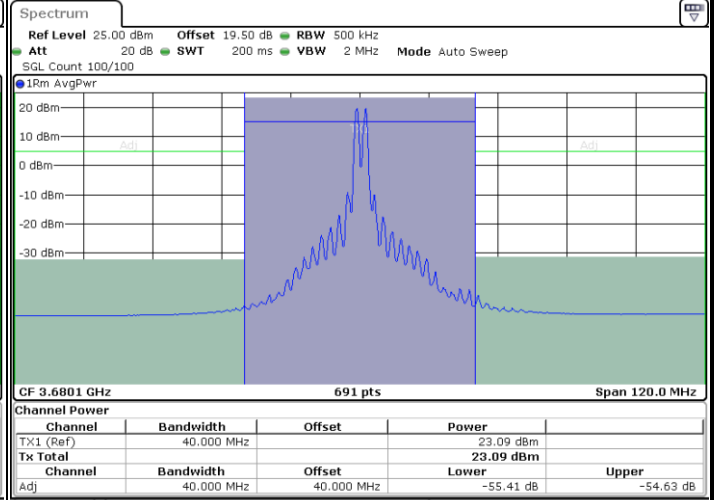
QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB74 and 1RB0



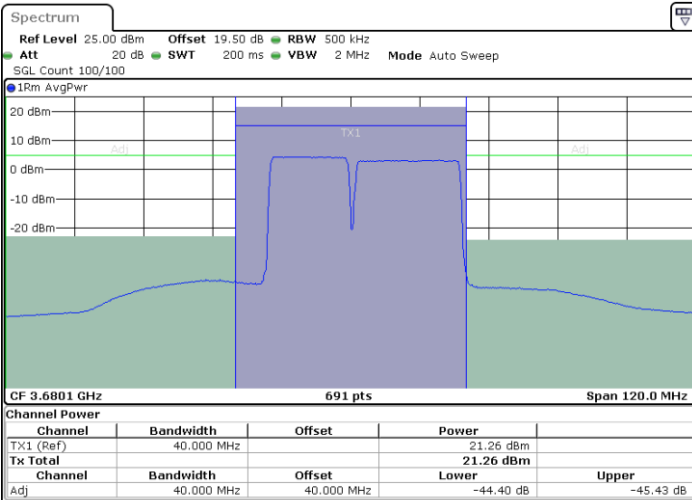
Date: 12 SEP 2023 22:16:53



Date: 12 SEP 2023 22:17:47

Highest Channel / FullRB

N/A



Date: 12 SEP 2023 22:12:20

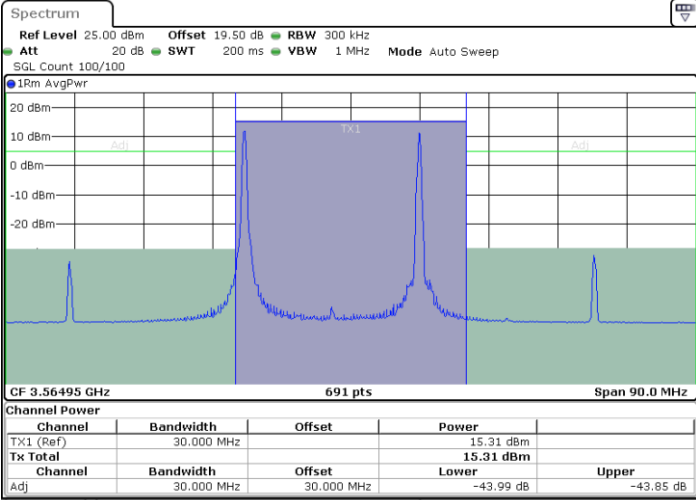


LTE Band 48C / 20MHz+5MHz

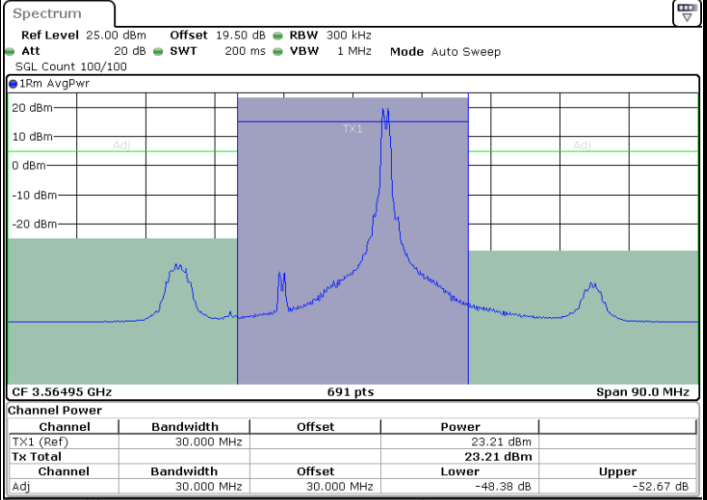
QPSK

Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB99 and 1RB0



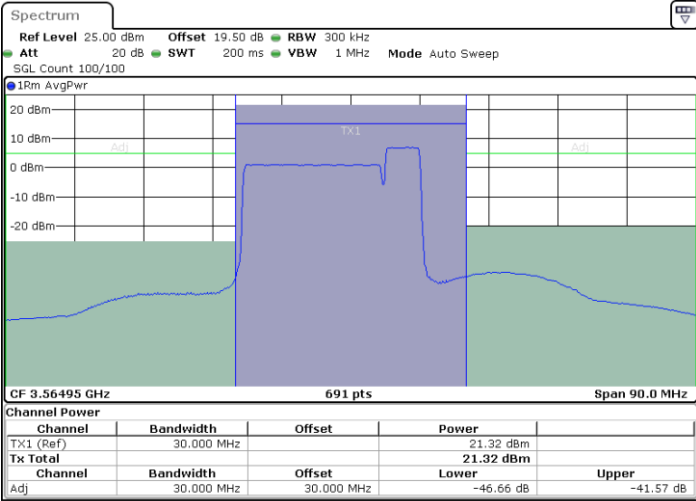
Date: 12 SEP 2023 15:27:37



Date: 12 SEP 2023 15:28:31

Lowest Channel / FullIRB

N/A



Date: 12 SEP 2023 15:23:03

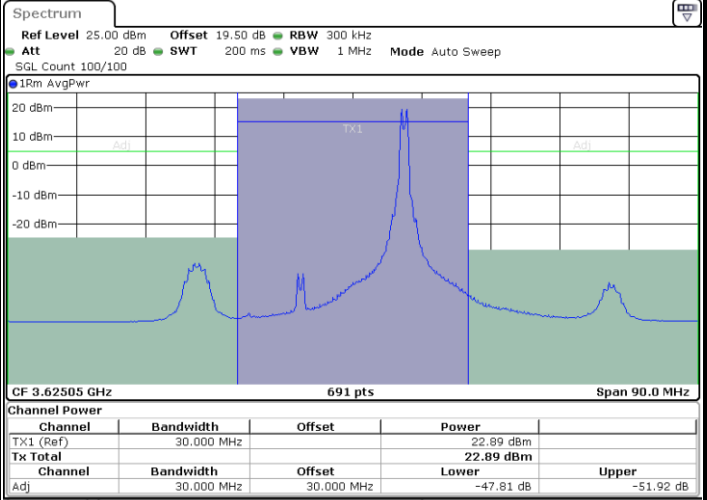
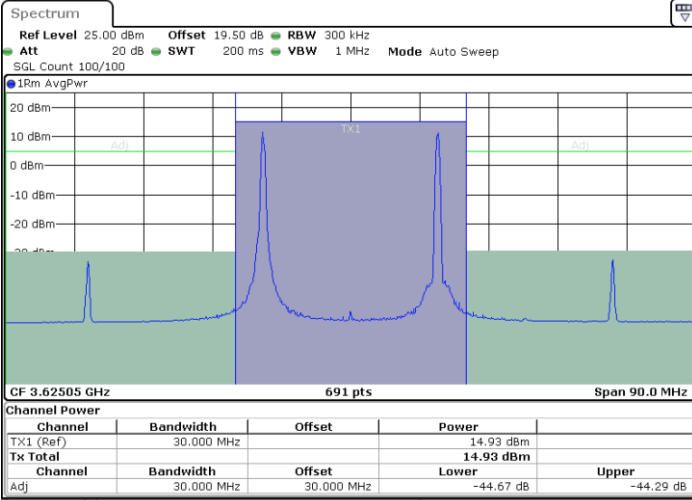


LTE Band 48C / 20MHz+5MHz

QPSK

Middle Channel / 1RB0 and 1RB24

Middle Channel / 1RB99 and 1RB0

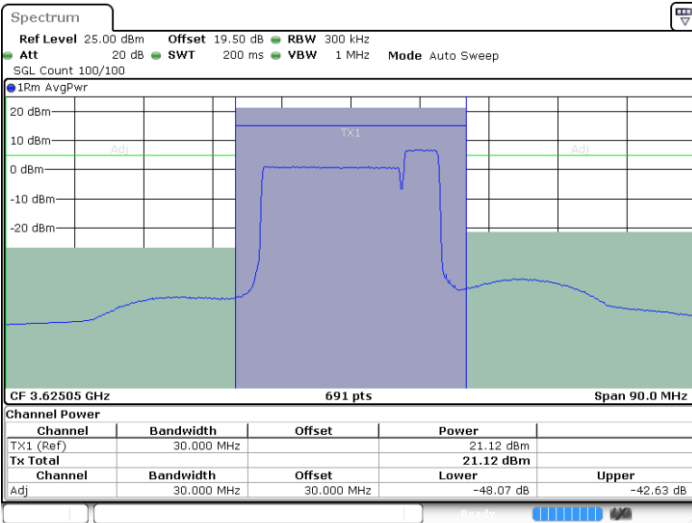


Date: 12 SEP 2023 15:05:04

Date: 12 SEP 2023 15:05:58

Middle Channel / FullIRB

N/A



Date: 12 SEP 2023 15:00:30

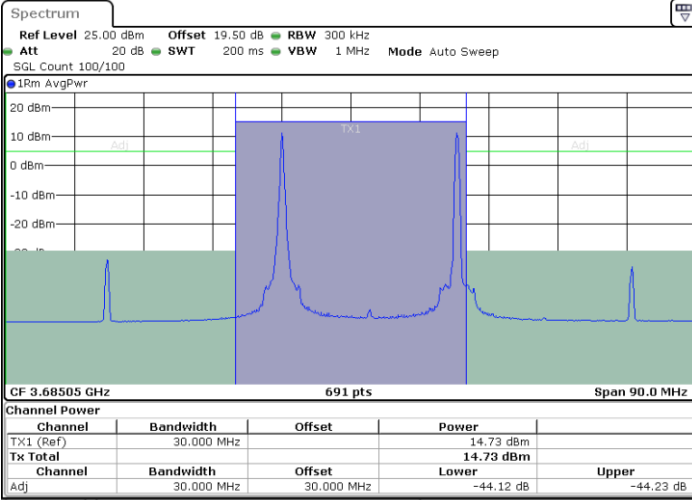


LTE Band 48C / 20MHz+5MHz

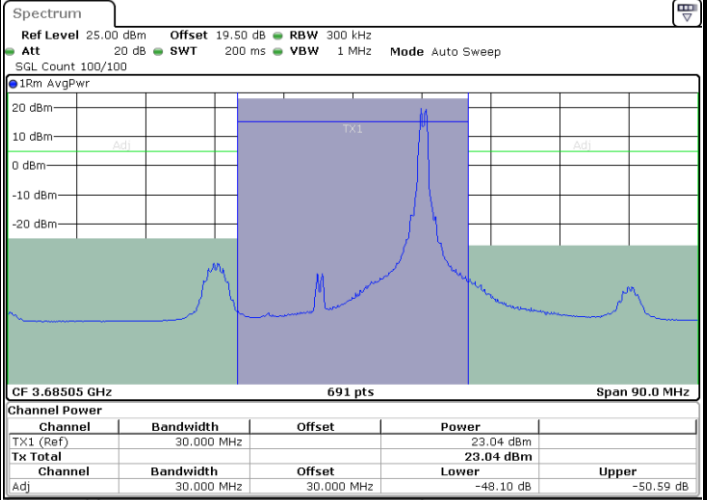
QPSK

Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB99 and 1RB0



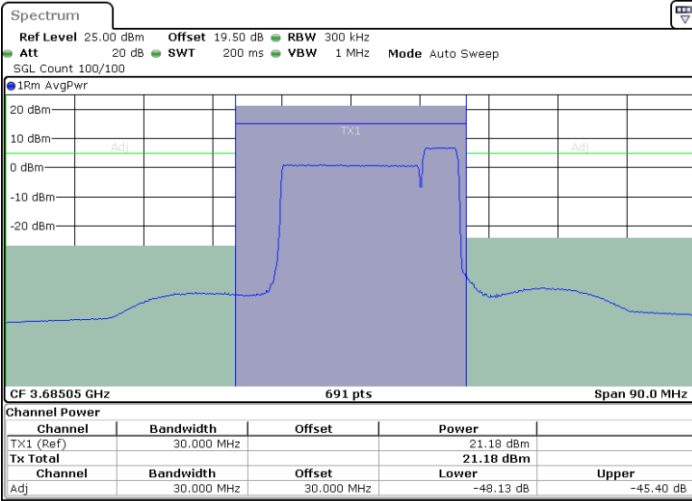
Date: 12 SEP 2023 15:50:29



Date: 12 SEP 2023 15:51:23

Highest Channel / FullRB

N/A



Date: 12 SEP 2023 15:45:55

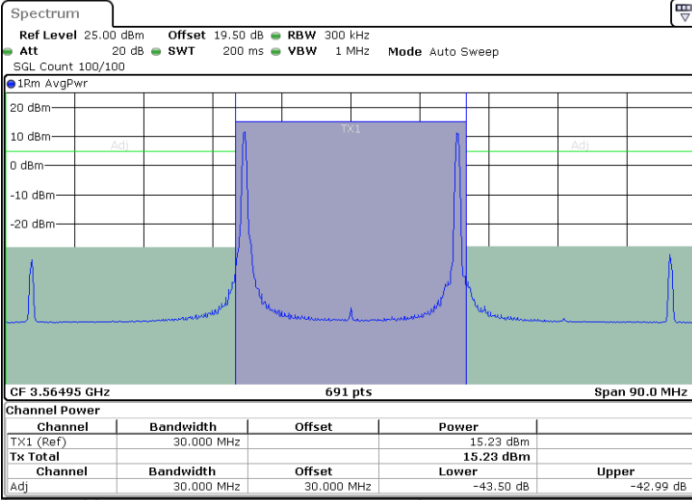


LTE Band 48C / 20MHz+10MHz

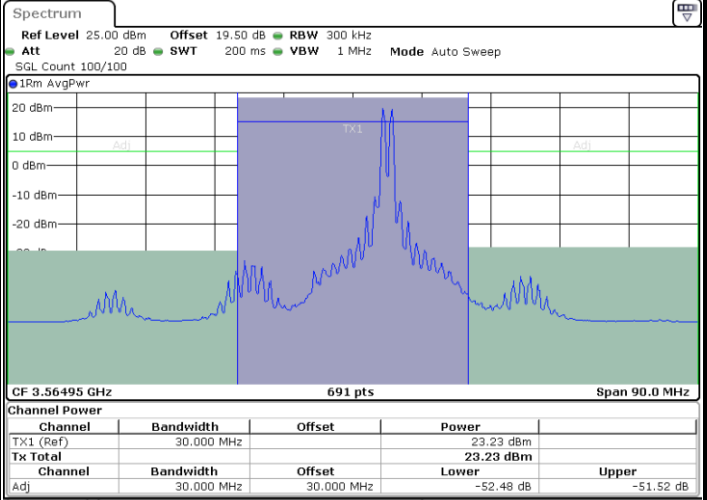
QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB99 and 1RB0



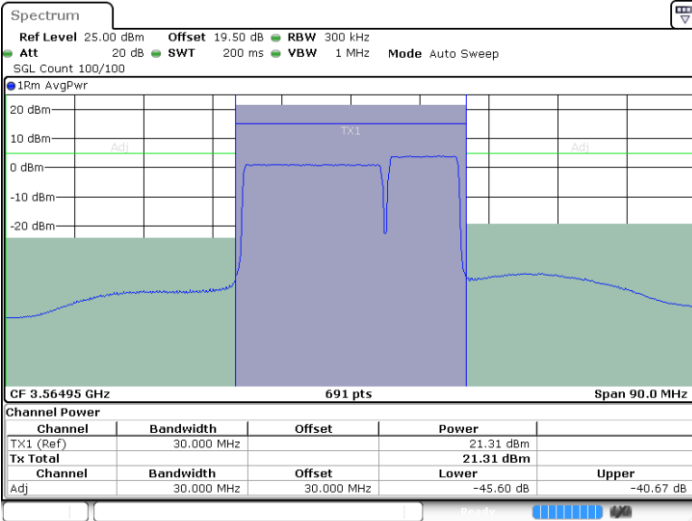
Date: 12 SEP 2023 16:37:09



Date: 12 SEP 2023 16:38:04

Lowest Channel / FullIRB

N/A



Date: 12 SEP 2023 16:32:35