

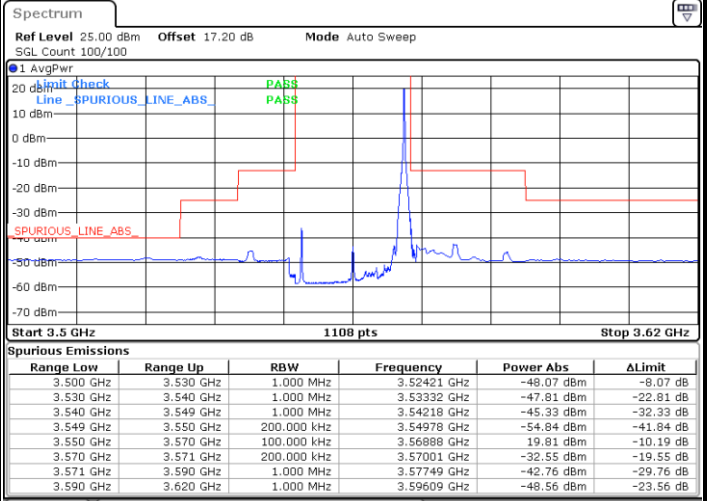
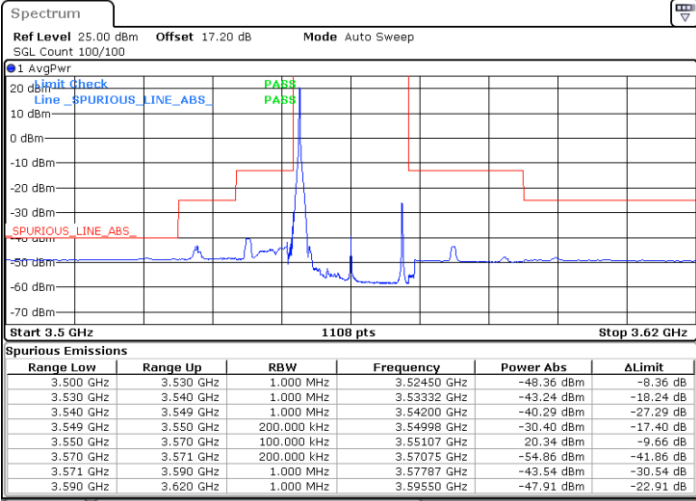


LTE Band 48 / 20MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

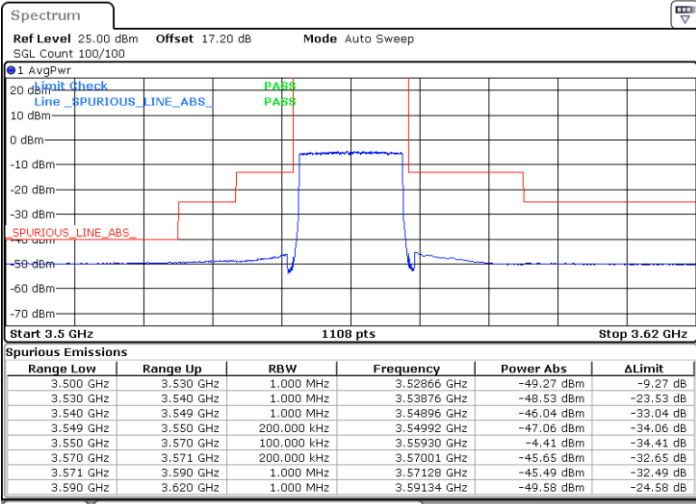


Date: 4.MAY.2022 21:14:23

Date: 4.MAY.2022 21:23:05

Lowest Channel / FullIRB

N/A



Date: 24.JUN.2022 21:12:47

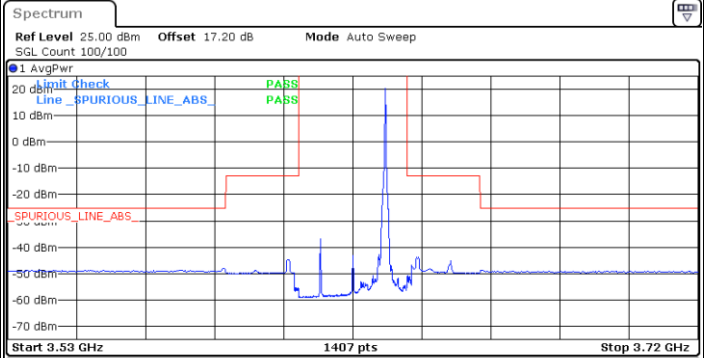
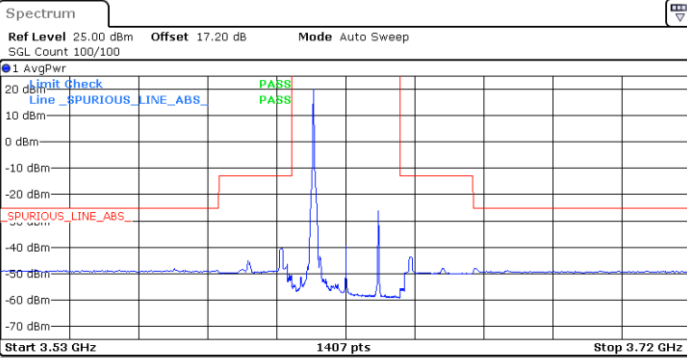


LTE Band 48 / 20MHz

64QAM

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	3.57791 GHz	-48.23 dBm	-23.23 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60721 GHz	-40.32 dBm	-27.32 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60947 GHz	-50.51 dBm	-37.51 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.61606 GHz	20.03 dBm	-9.97 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64000 GHz	-55.57 dBm	-42.57 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64279 GHz	-43.68 dBm	-30.68 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.66075 GHz	-48.01 dBm	-23.01 dB

Spurious Emissions

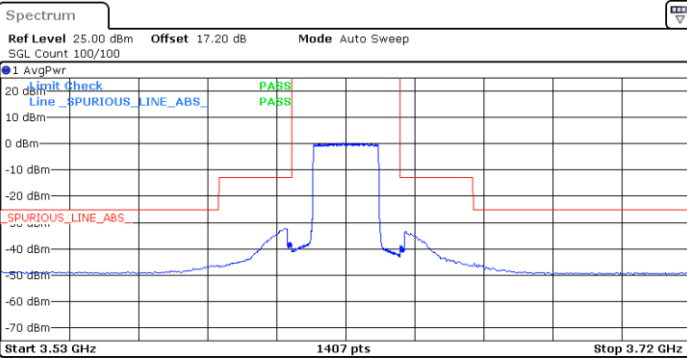
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.590 GHz	1.000 MHz	3.58925 GHz	-47.93 dBm	-22.93 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60740 GHz	-44.70 dBm	-31.70 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60927 GHz	-55.33 dBm	-42.33 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.63389 GHz	20.44 dBm	-9.56 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64004 GHz	-50.88 dBm	-37.88 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64260 GHz	-43.74 dBm	-30.74 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.66045 GHz	-48.67 dBm	-23.67 dB

Date: 4.MAY.2022 21:19:13

Date: 4.MAY.2022 21:27:55

Middle Channel / FullIRB

N/A



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.590 GHz	1.000 MHz	3.58985 GHz	-46.50 dBm	-21.50 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60815 GHz	-32.14 dBm	-19.14 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60955 GHz	-37.51 dBm	-24.51 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.62435 GHz	0.41 dBm	-29.59 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64000 GHz	-38.84 dBm	-25.84 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64128 GHz	-33.42 dBm	-20.42 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.66045 GHz	-45.49 dBm	-20.49 dB

Date: 4.MAY.2022 21:10:31

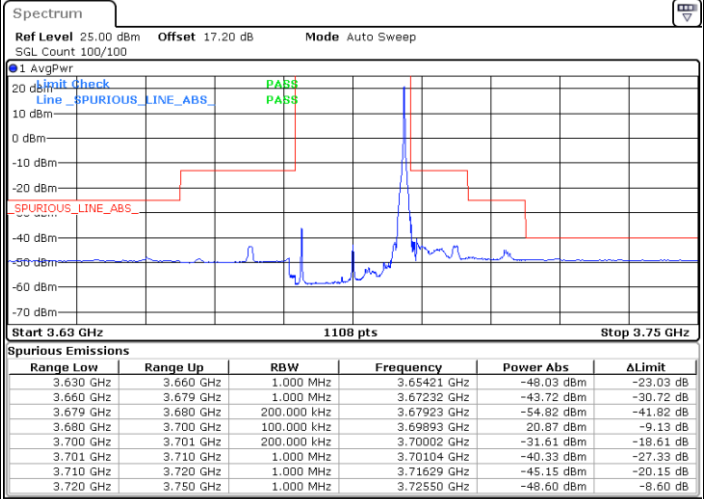
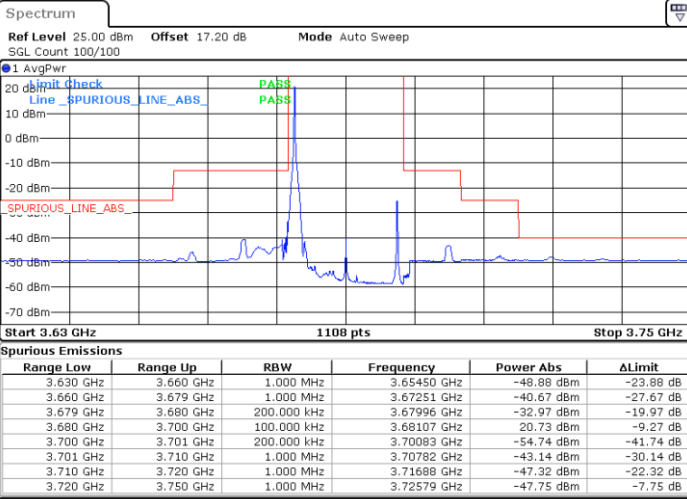


LTE Band 48 / 20MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

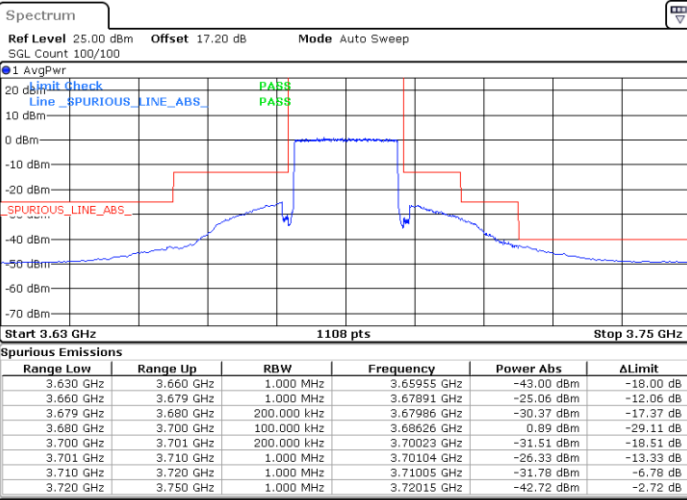


Date: 4.MAY.2022 21:20:10

Date: 4.MAY.2022 21:28:52

Highest Channel / FullIRB

N/A



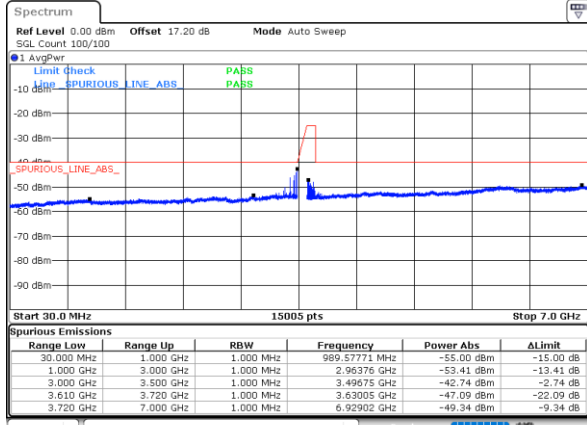
Date: 4.MAY.2022 21:11:29



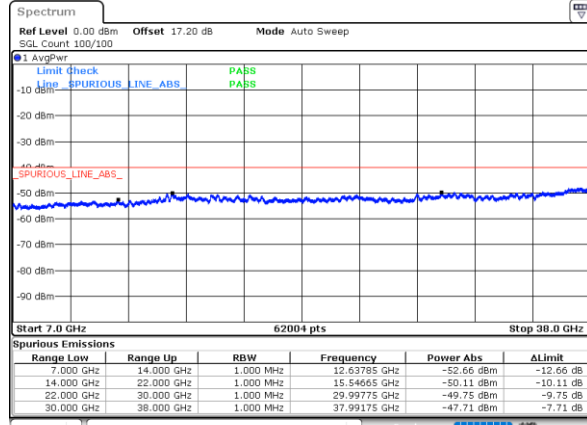
Conducted Spurious Emission

LTE Band 48 / 5MHz

Lowest Channel / QPSK

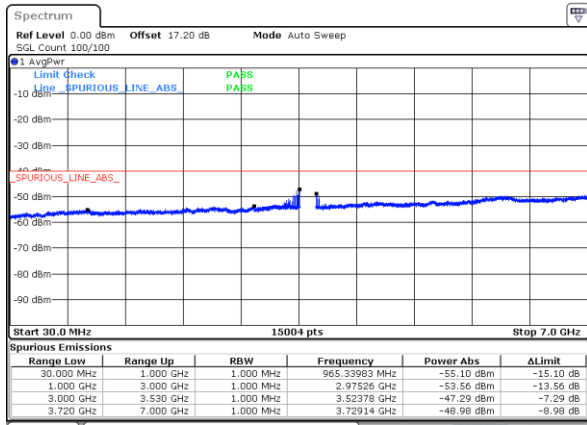


Date: 5.MAY.2022 00:03:56

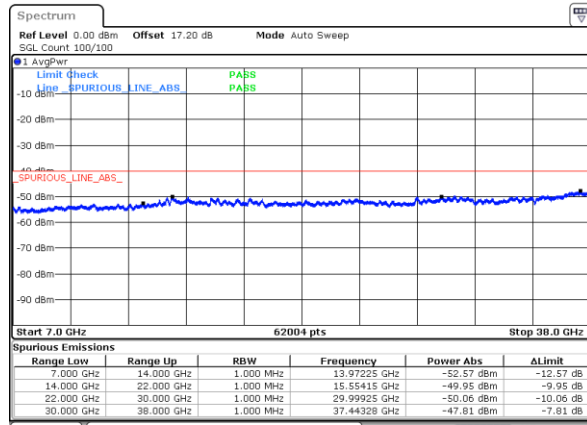


Date: 5.MAY.2022 01:22:55

Middle Channel / QPSK

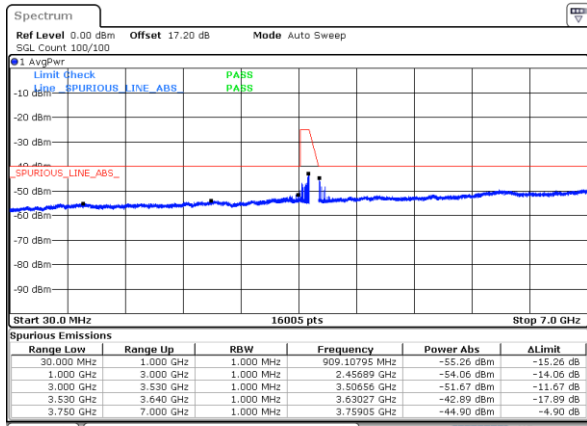


Date: 5.MAY.2022 00:05:24

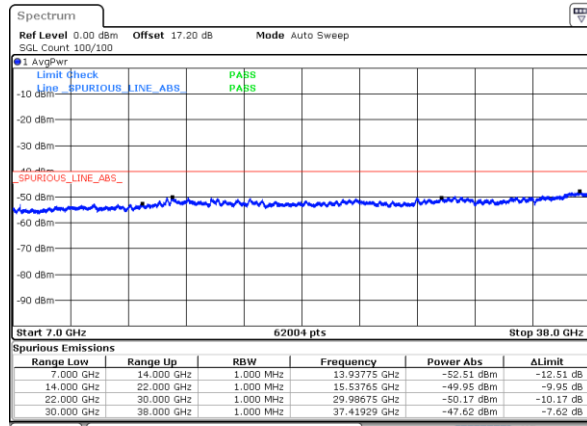


Date: 5.MAY.2022 01:24:53

Highest Channel / QPSK



Date: 5.MAY.2022 00:06:52

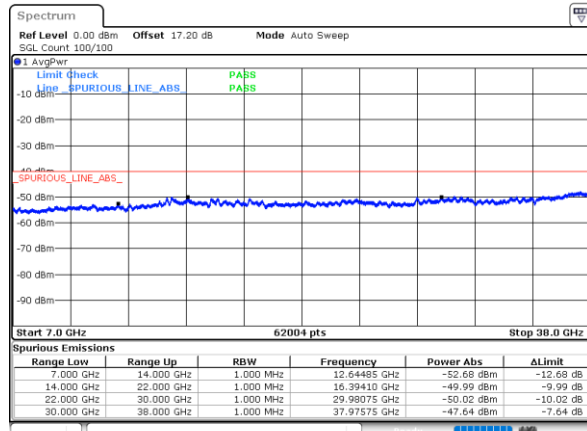
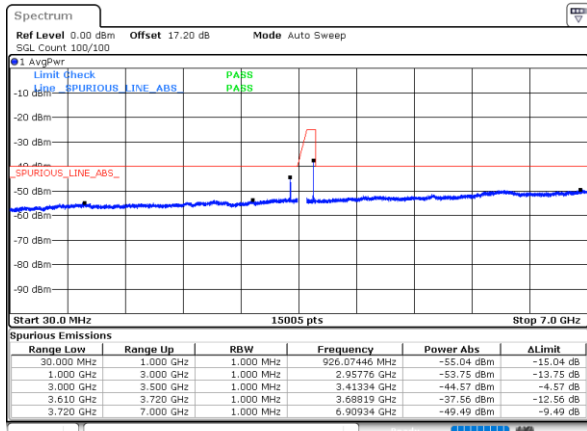


Date: 5.MAY.2022 01:25:52



LTE Band 48 / 10MHz

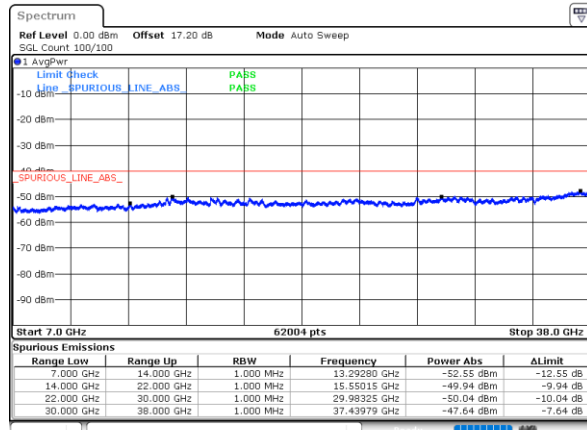
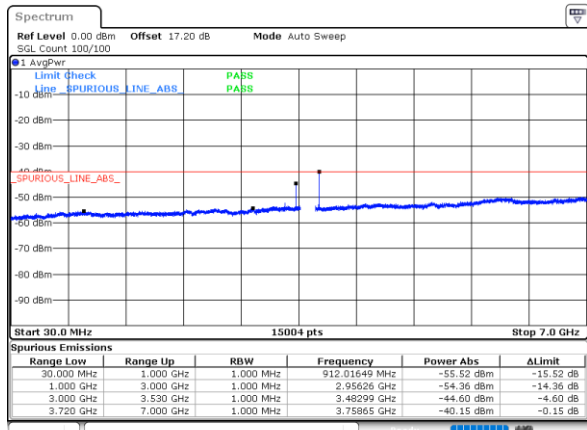
Lowest Channel / QPSK



Date: 5.MAY.2022 00:08:25

Date: 5.MAY.2022 01:27:26

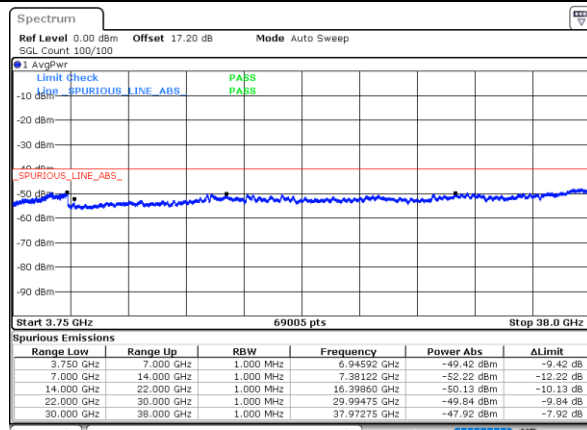
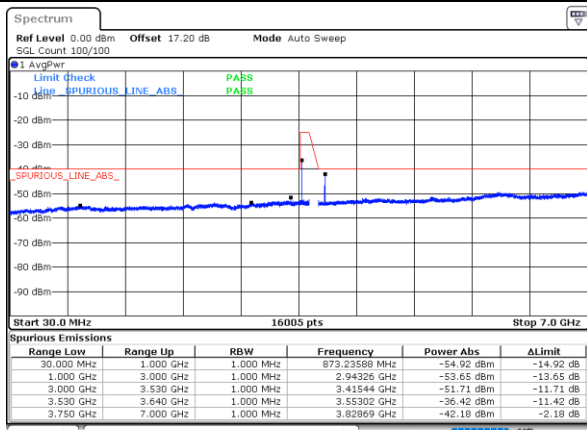
Middle Channel / QPSK



Date: 12.MAY.2022 09:49:55

Date: 5.MAY.2022 01:28:54

Highest Channel / QPSK



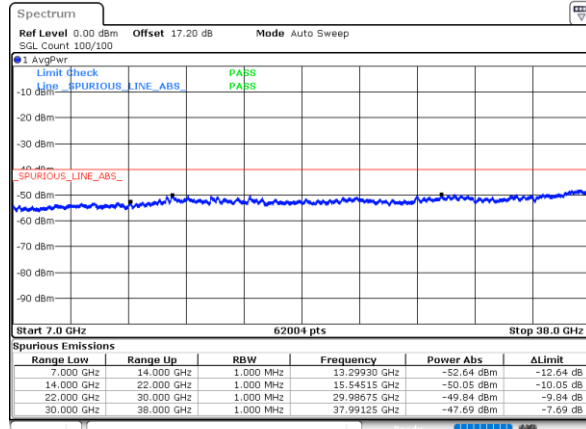
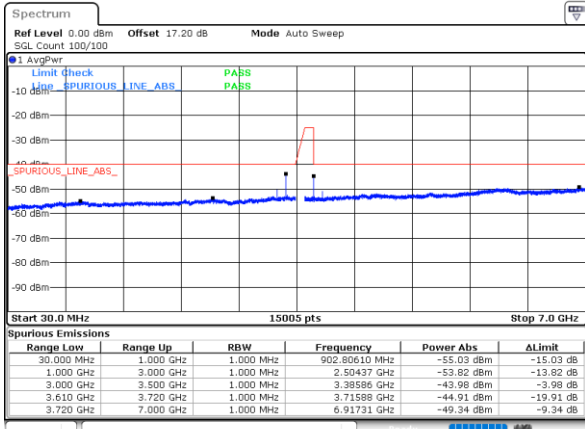
Date: 5.MAY.2022 00:19:07

Date: 5.MAY.2022 01:30:22



LTE Band 48 / 15MHz

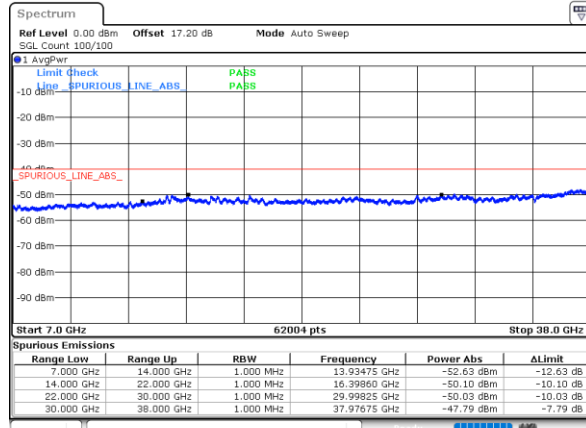
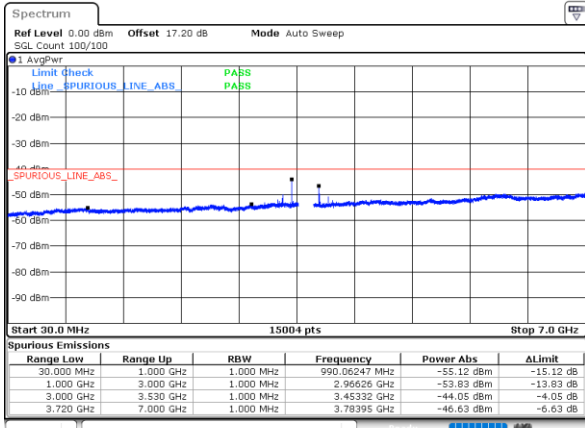
Lowest Channel / QPSK



Date: 5.MAY.2022 00:20:40

Date: 5.MAY.2022 01:31:55

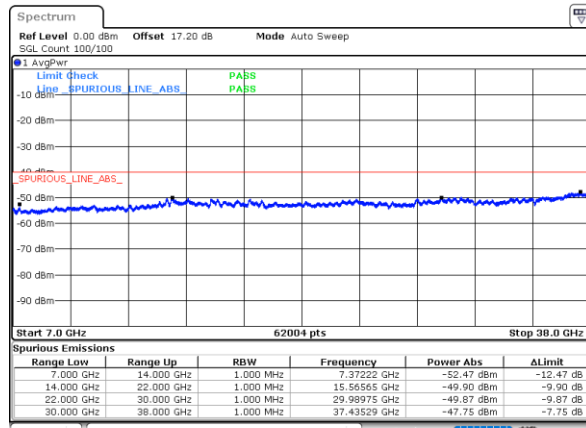
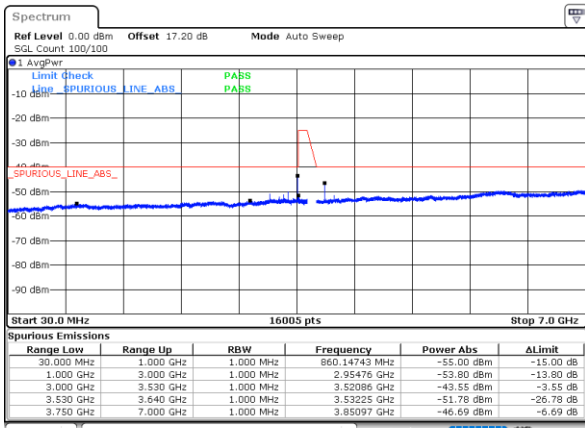
Middle Channel / QPSK



Date: 5.MAY.2022 00:22:08

Date: 5.MAY.2022 01:33:23

Highest Channel / QPSK



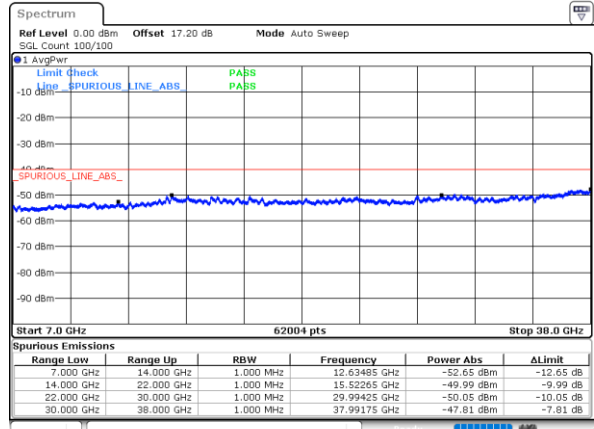
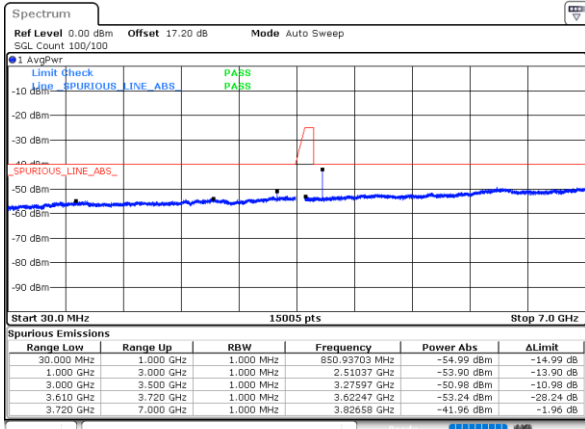
Date: 5.MAY.2022 00:23:36

Date: 5.MAY.2022 01:34:52



LTE Band 48 / 20MHz

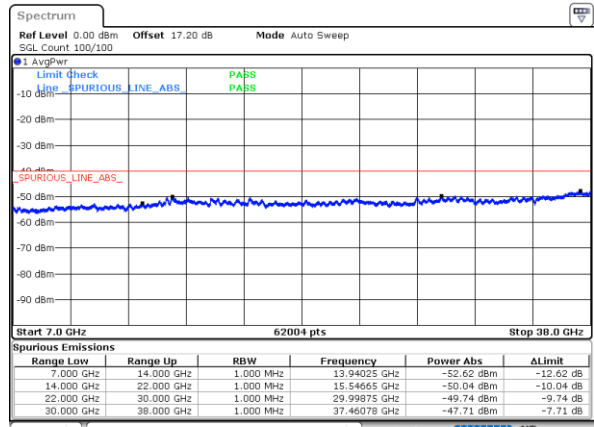
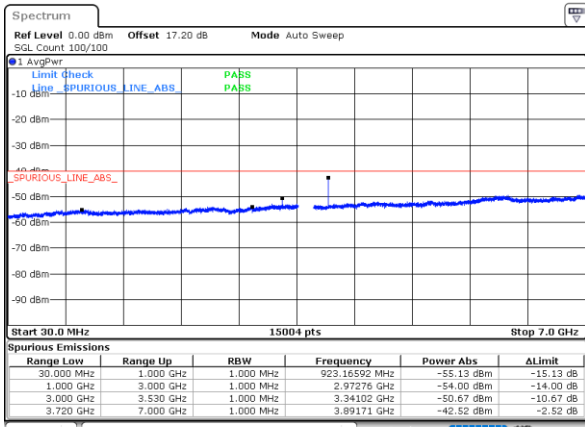
Lowest Channel / QPSK



Date: 5.MAY.2022 00:25:10

Date: 5.MAY.2022 01:36:25

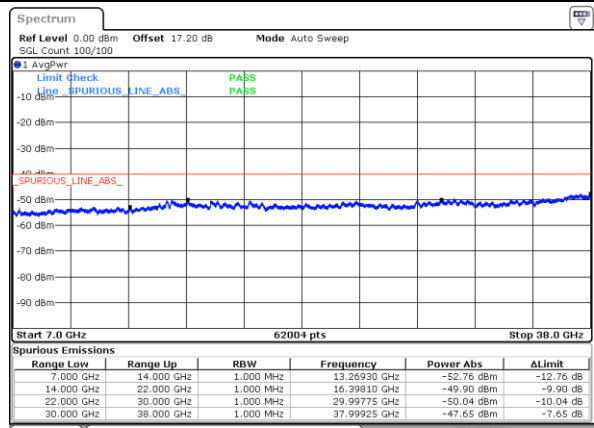
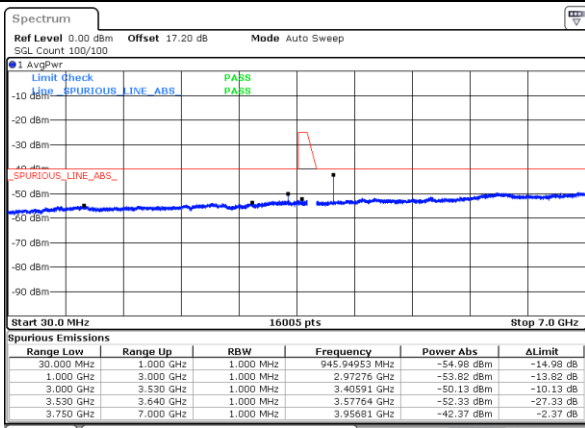
Middle Channel / QPSK



Date: 5.MAY.2022 00:26:38

Date: 5.MAY.2022 01:37:54

Highest Channel / QPSK



Date: 5.MAY.2022 00:28:06

Date: 5.MAY.2022 01:32:22



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	0.0028	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0048	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0042	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0040	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

- 1. Normal Voltage = 3.33 V. ; Battery End Point (ACLRP) = 3.14 V. ; Maximum Voltage = 4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 48C

26dB Bandwidth

Mode	LTE Band 48C : 26dB BW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.88	29.79	34.90	24.98
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	35.04	39.88	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.78	29.79	34.76	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	34.97	39.80	-

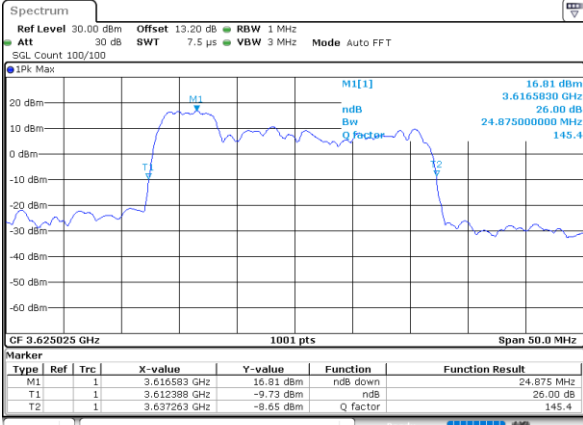
Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.83	29.91	34.76	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.09	34.90	39.72	-



LTE Band 48C

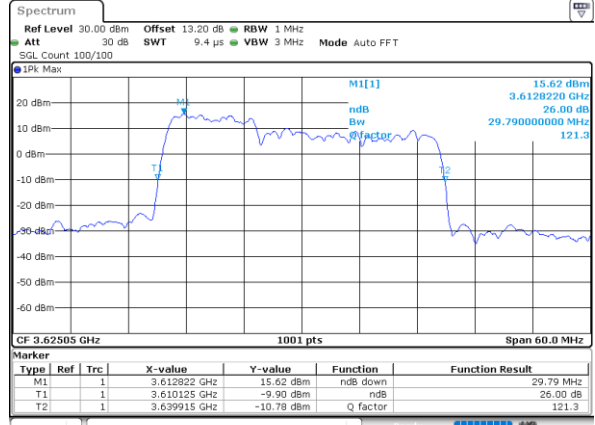
QPSK

Middle Channel / 5MHz+20MHz



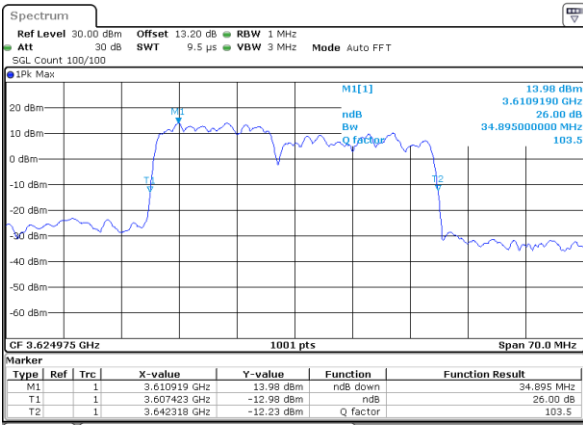
Date: 23 JUN 2022 19:28:11

Middle Channel / 10MHz+20MHz



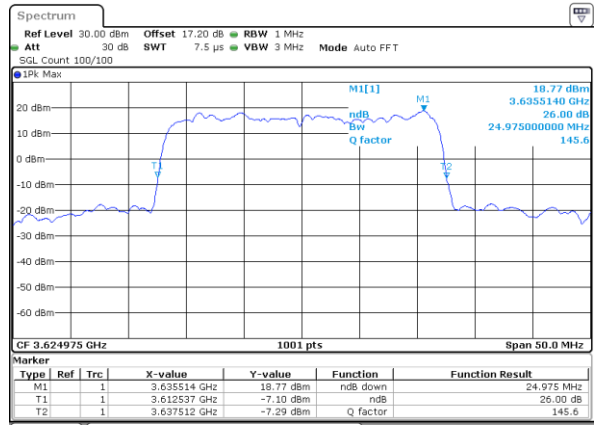
Date: 23 JUN 2022 19:32:12

Middle Channel / 15MHz+20MHz



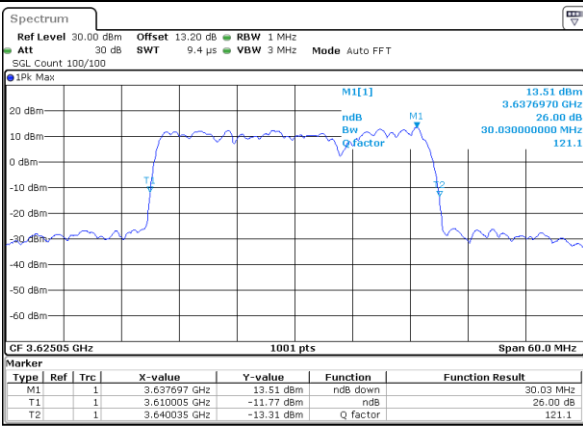
Date: 23 JUN 2022 19:36:13

Middle Channel / 20MHz+5MHz



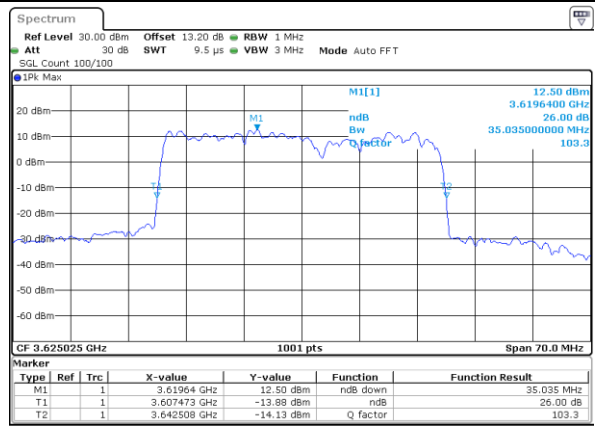
Date: 1 JUL 2022 22:15:21

Middle Channel / 20MHz+10MHz



Date: 23 JUN 2022 20:05:24

Middle Channel / 20MHz+15MHz



Date: 23 JUN 2022 20:09:25

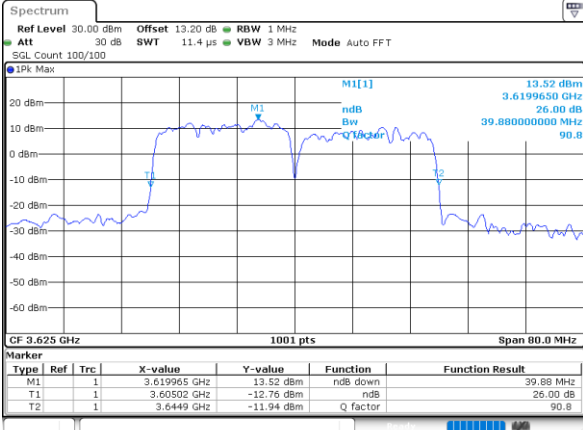


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A



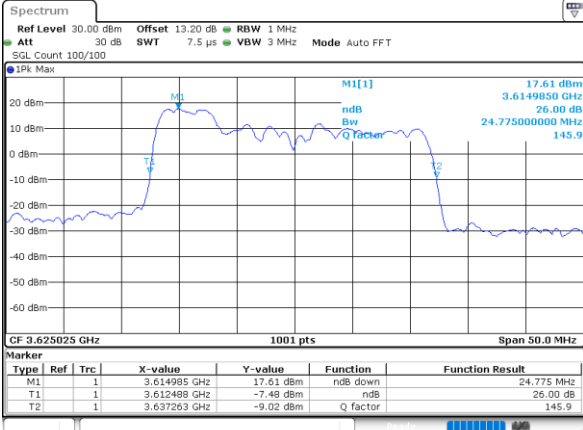
Date: 23 JUN 2022 20:13:04



LTE Band 48C

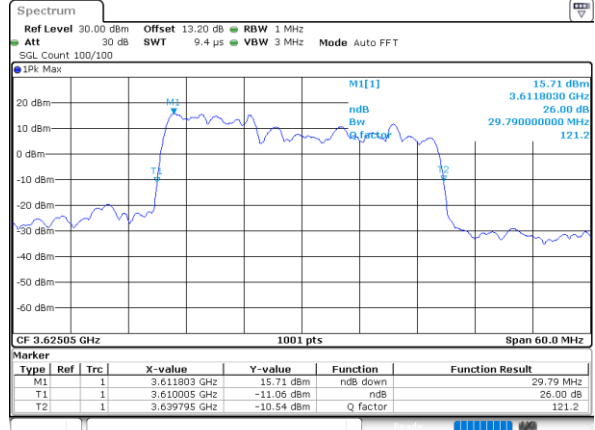
16QAM

Middle Channel / 5MHz+20MHz



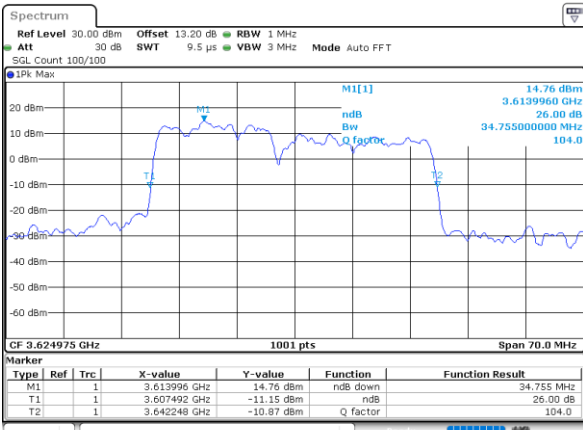
Date: 23 JUN 2022 19:28:49

Middle Channel / 10MHz+20MHz



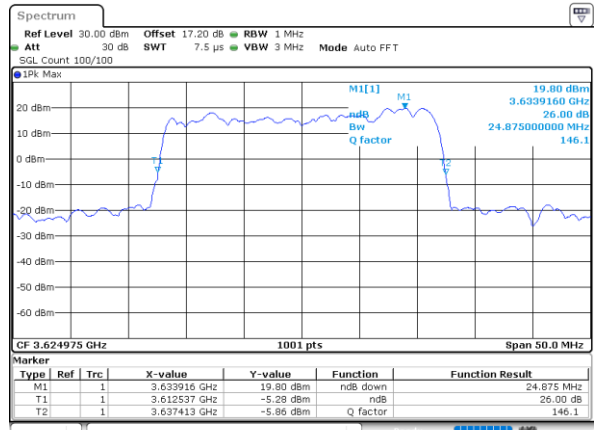
Date: 23 JUN 2022 19:32:51

Middle Channel / 15MHz+20MHz



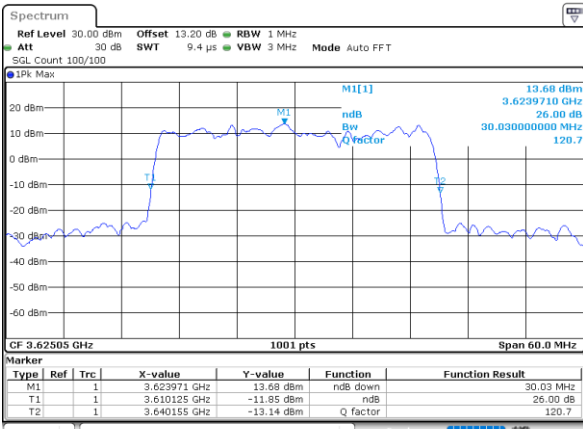
Date: 23 JUN 2022 19:36:52

Middle Channel / 20MHz+5MHz



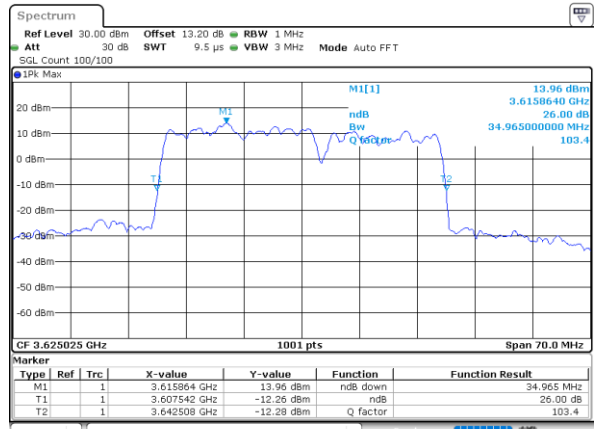
Date: 1 JUL 2022 22:14:53

Middle Channel / 20MHz+10MHz



Date: 23 JUN 2022 20:06:03

Middle Channel / 20MHz+15MHz



Date: 23 JUN 2022 20:10:03

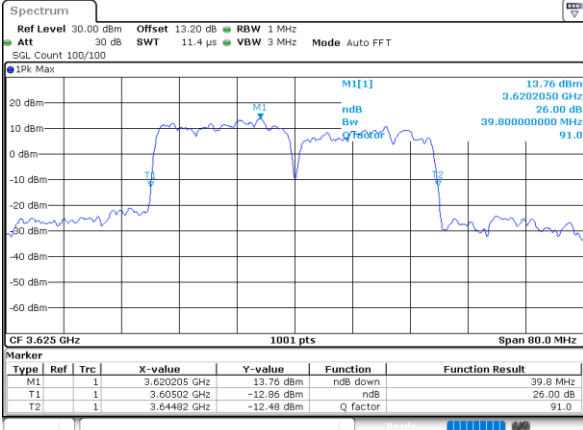


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A



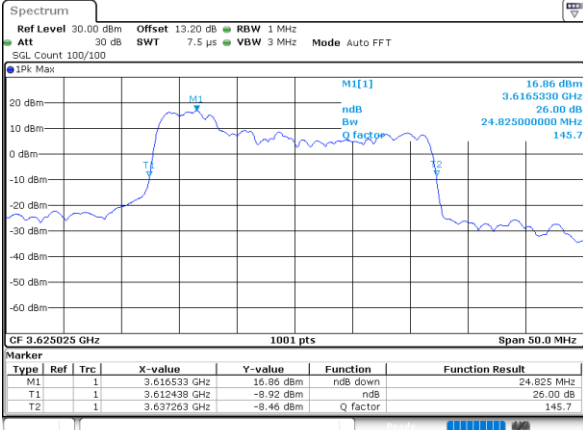
Date: 23 JUN 2022 20:13:37



LTE Band 48C

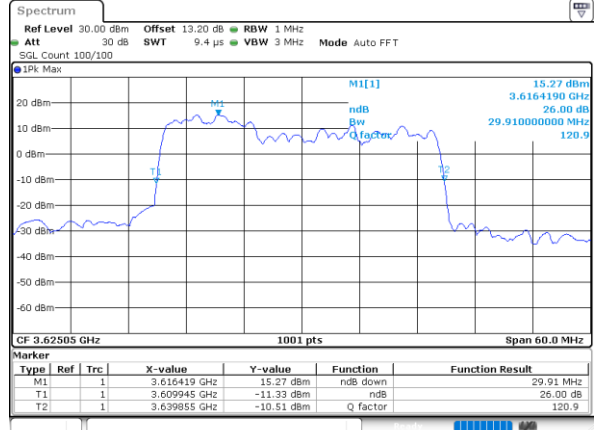
64QAM

Middle Channel / 5MHz+20MHz



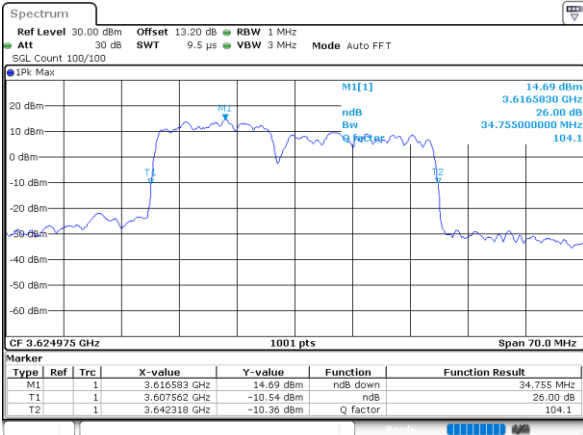
Date: 23 JUN 2022 19:29:28

Middle Channel / 10MHz+20MHz



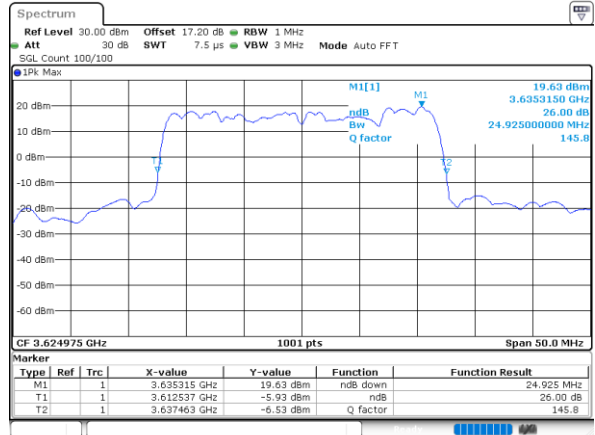
Date: 23 JUN 2022 19:33:29

Middle Channel / 15MHz+20MHz



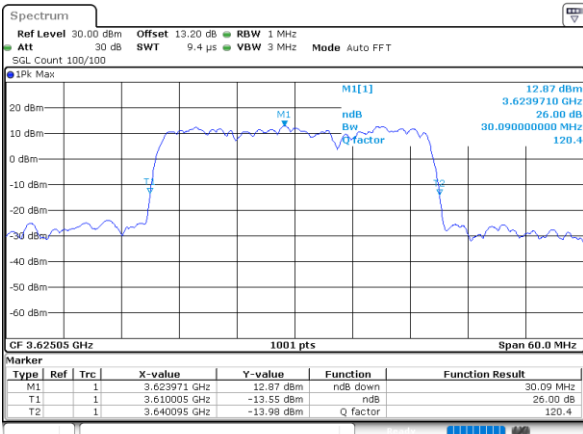
Date: 23 JUN 2022 19:37:31

Middle Channel / 20MHz+5MHz



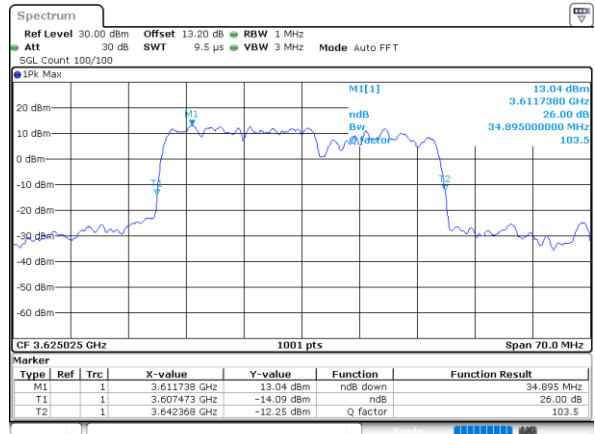
Date: 1 JUL 2022 22:14:24

Middle Channel / 20MHz+10MHz



Date: 23 JUN 2022 20:06:42

Middle Channel / 20MHz+15MHz



Date: 23 JUN 2022 20:10:42

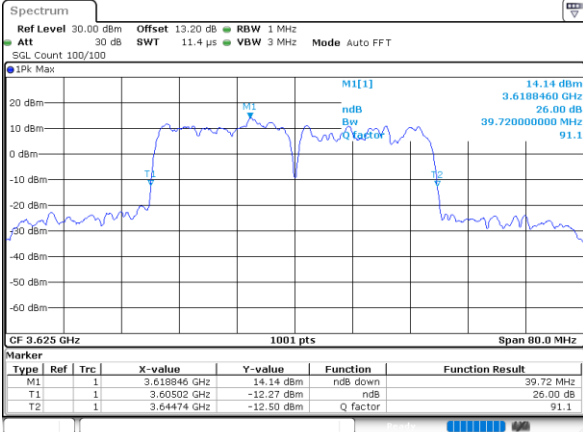


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 23 JUN 2022 20:14:11



Occupied Bandwidth

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.43	27.87	32.87	23.38
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.29	32.87	37.40	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.13	27.87	32.52	23.43
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.93	32.94	37.96	-

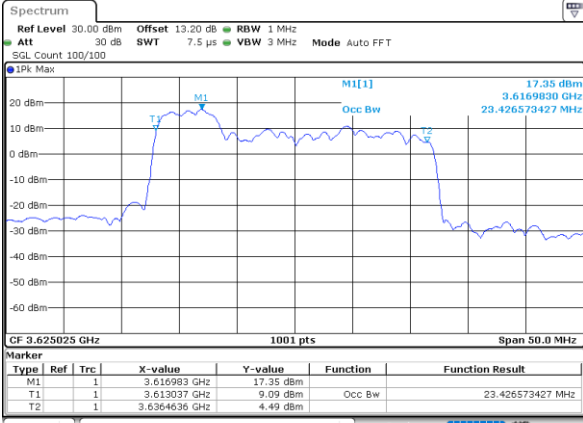
Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.63	27.81	32.73	23.18
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.93	32.73	37.88	-



LTE Band 48C

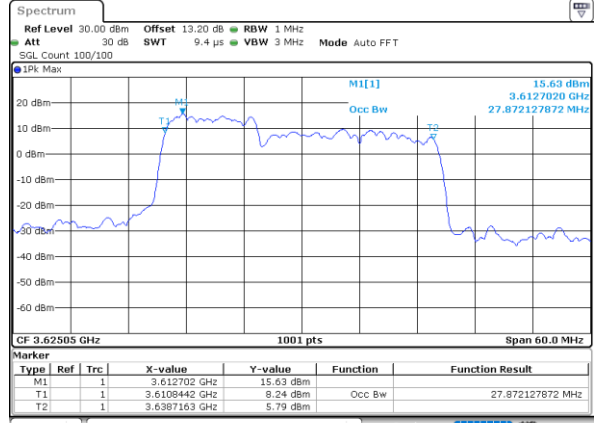
QPSK

Middle Channel / 5MHz+20MHz



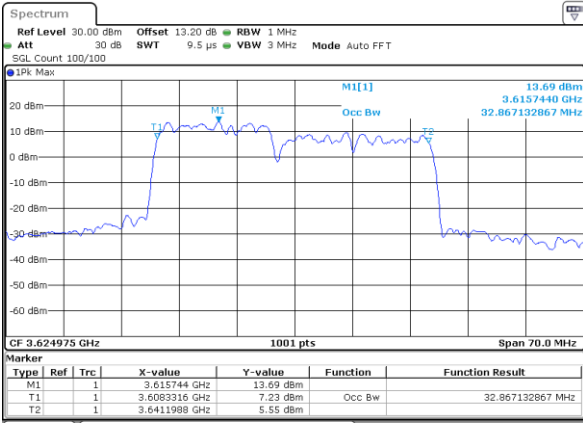
Date: 23 JUN 2022 19:26:09

Middle Channel / 10MHz+20MHz



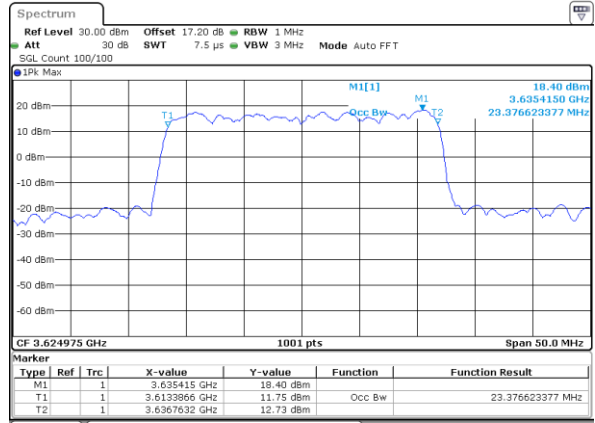
Date: 23 JUN 2022 19:30:16

Middle Channel / 15MHz+20MHz



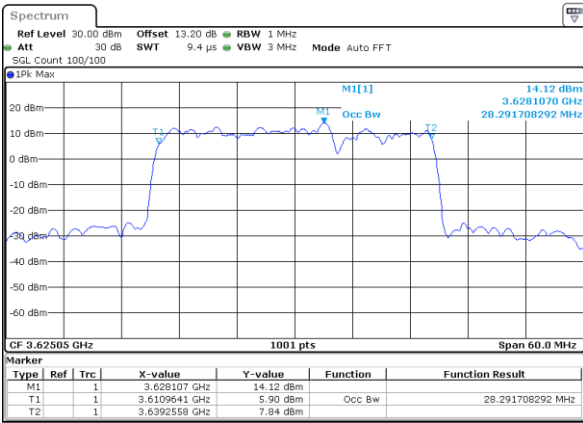
Date: 23 JUN 2022 19:34:17

Middle Channel / 20MHz+5MHz



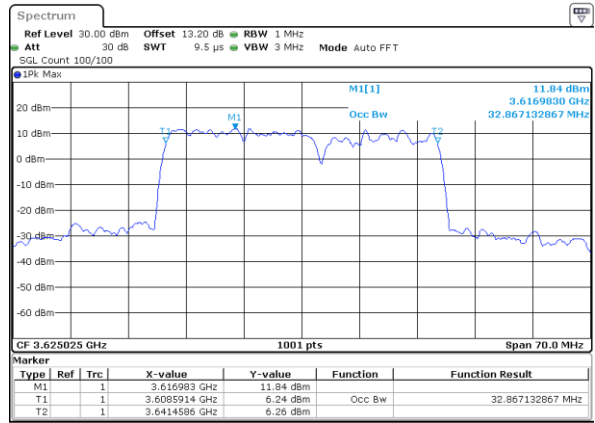
Date: 1 JUL 2022 22:12:30

Middle Channel / 20MHz+10MHz



Date: 23 JUN 2022 20:03:28

Middle Channel / 20MHz+15MHz



Date: 23 JUN 2022 20:07:28

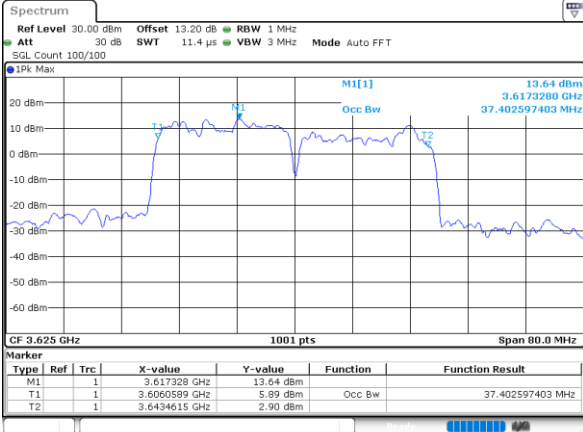


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A



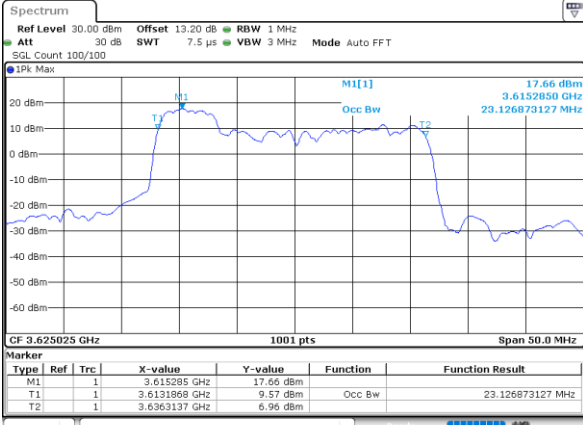
Date: 23 JUN 2022 20:11:23



LTE Band 48C

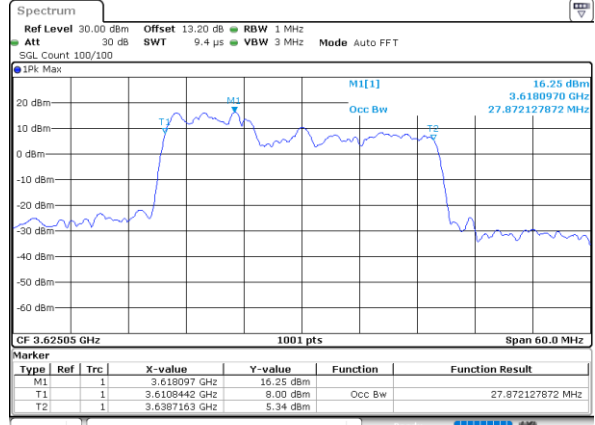
16QAM

Middle Channel / 5MHz+20MHz



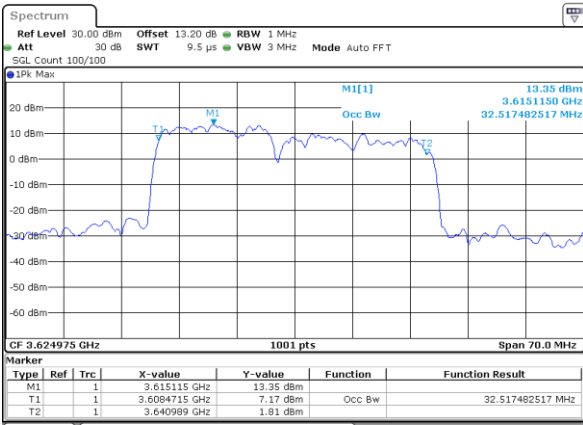
Date: 23 JUN 2022 19:26:48

Middle Channel / 10MHz+20MHz



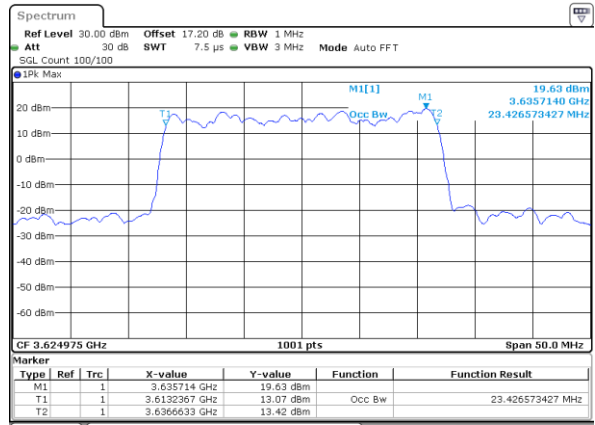
Date: 23 JUN 2022 19:30:54

Middle Channel / 15MHz+20MHz



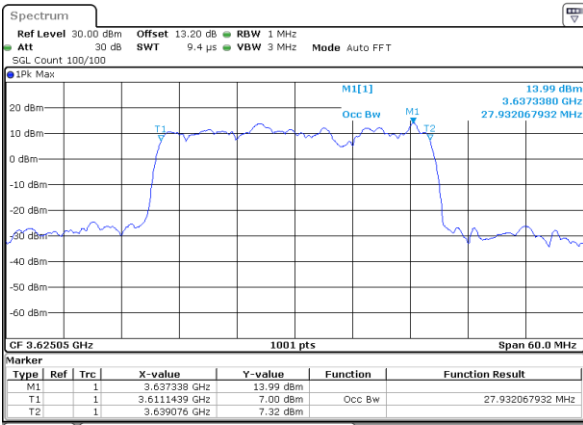
Date: 23 JUN 2022 19:34:56

Middle Channel / 20MHz+5MHz



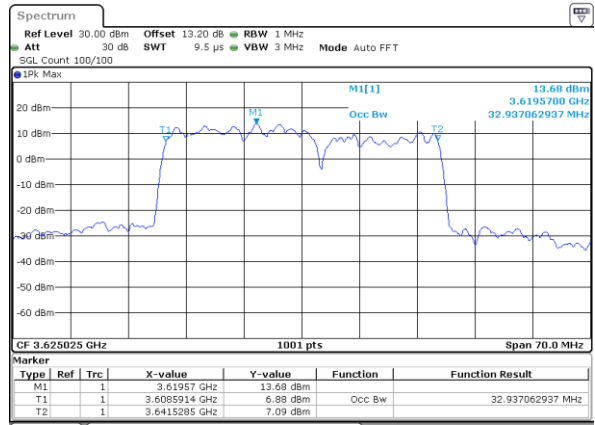
Date: 1 JUL 2022 22:12:58

Middle Channel / 20MHz+10MHz



Date: 23 JUN 2022 20:04:07

Middle Channel / 20MHz+15MHz



Date: 23 JUN 2022 20:08:07

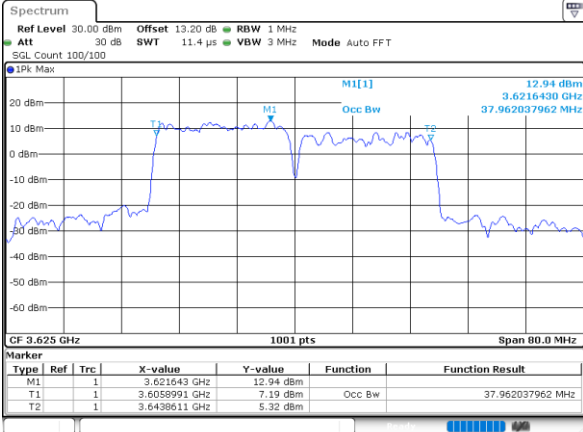


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A



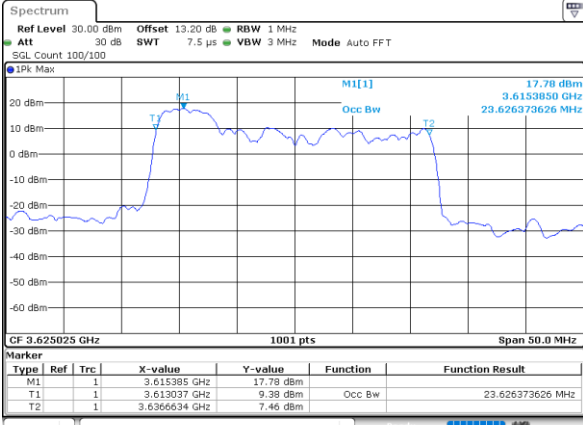
Date: 23 JUN 2022 20:11:57



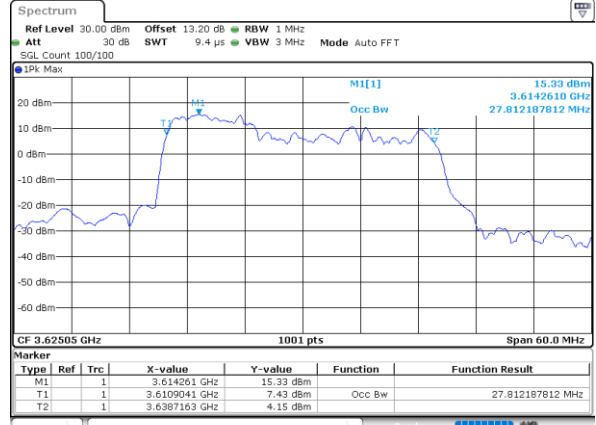
LTE Band 48C

64QAM

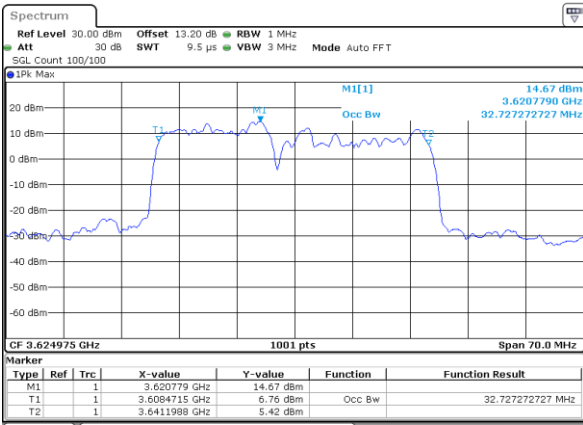
Middle Channel / 5MHz+20MHz



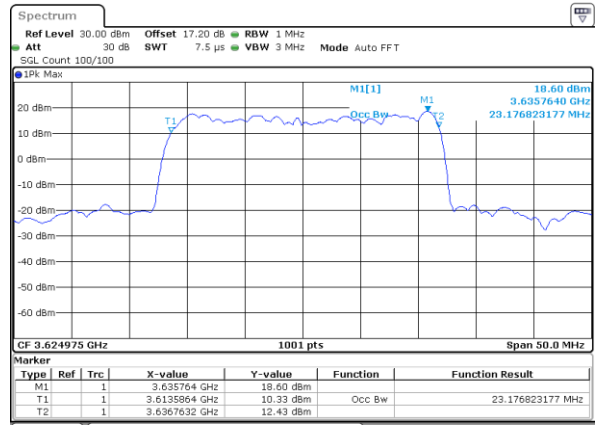
Middle Channel / 10MHz+20MHz



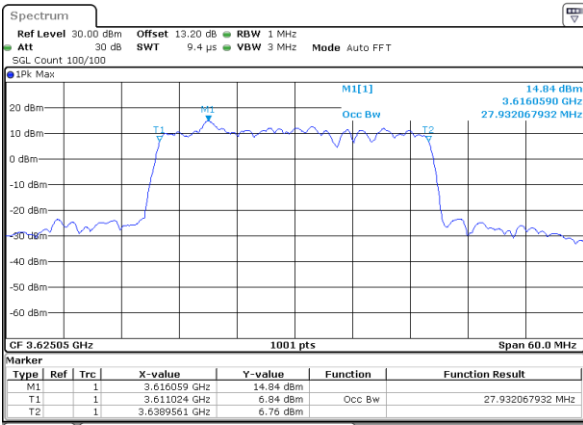
Middle Channel / 15MHz+20MHz



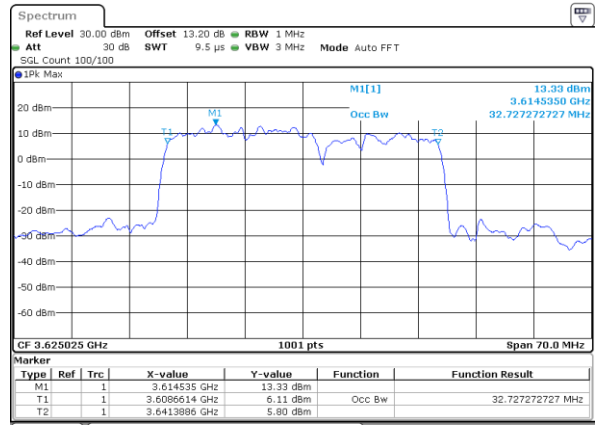
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



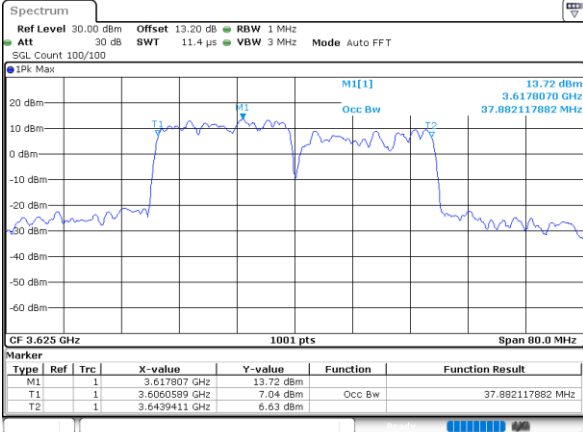


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

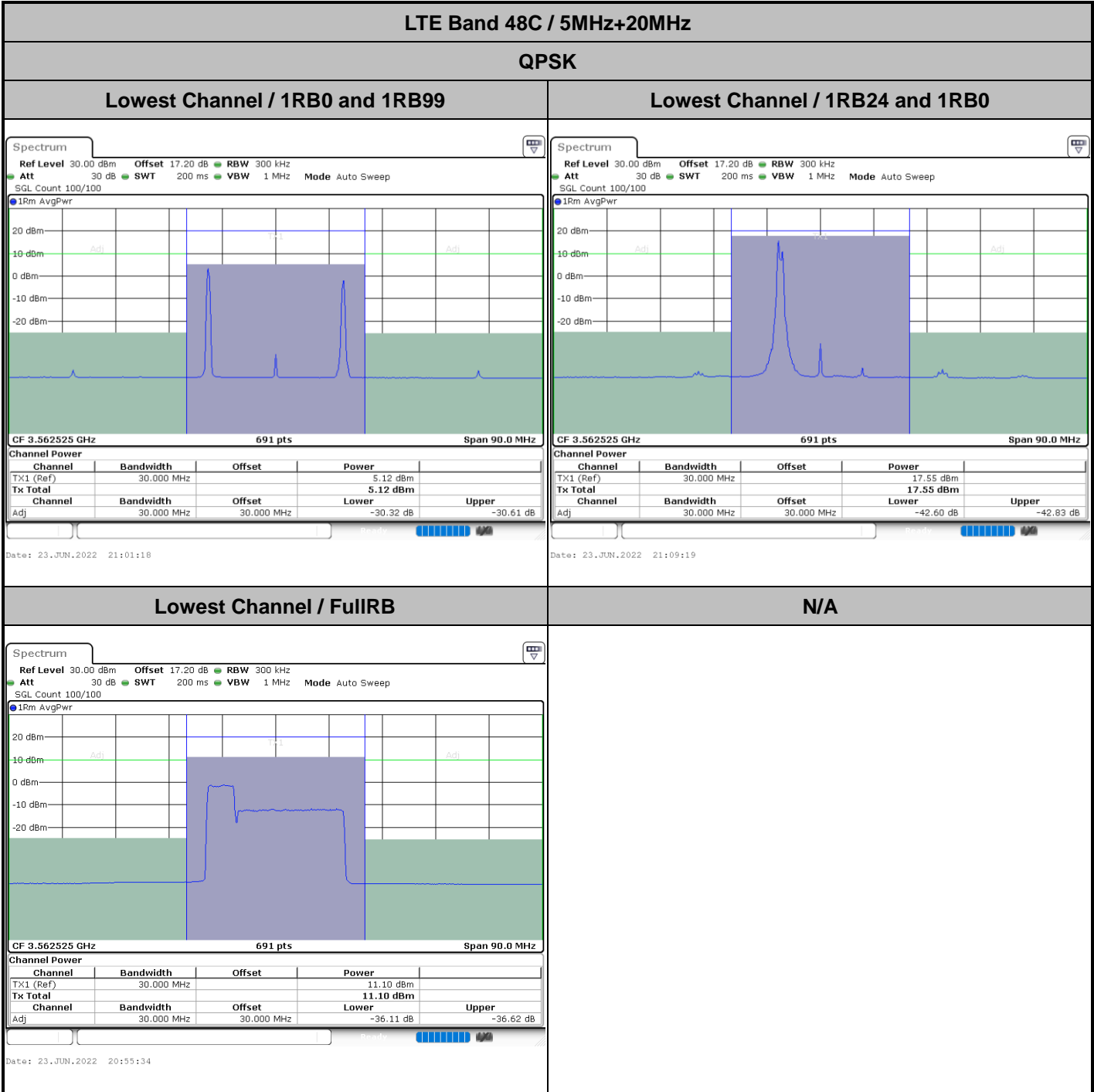
N/A



Date: 23 JUN 2022 20:12:30



ACLR



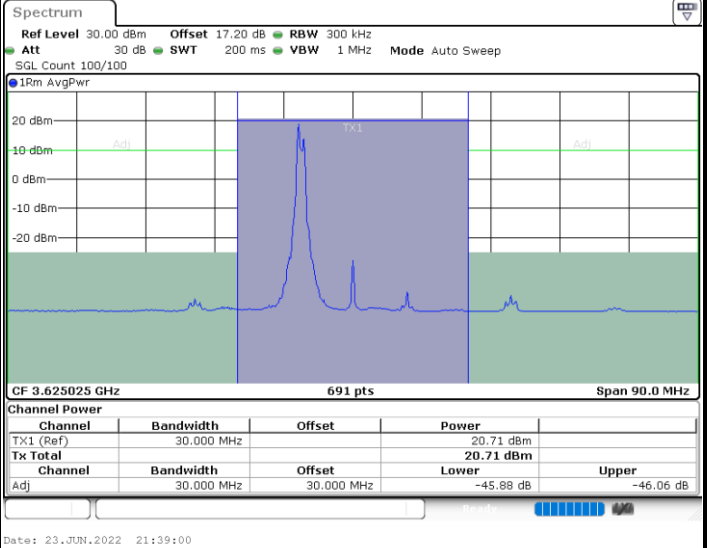
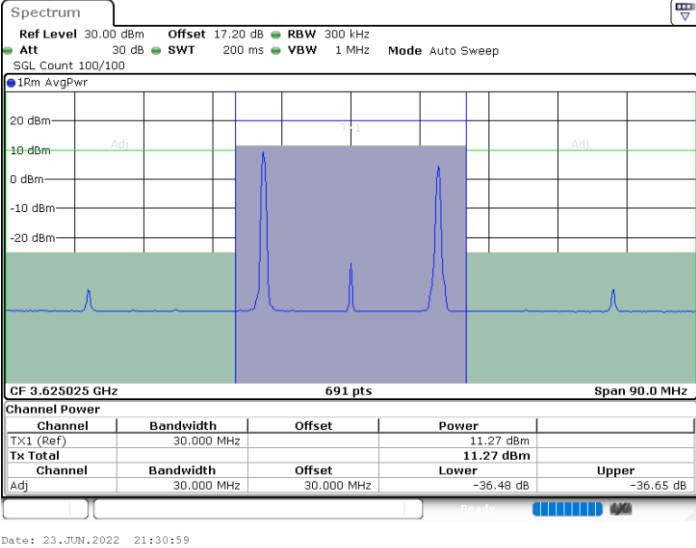


LTE Band 48C / 5MHz+20MHz

QPSK

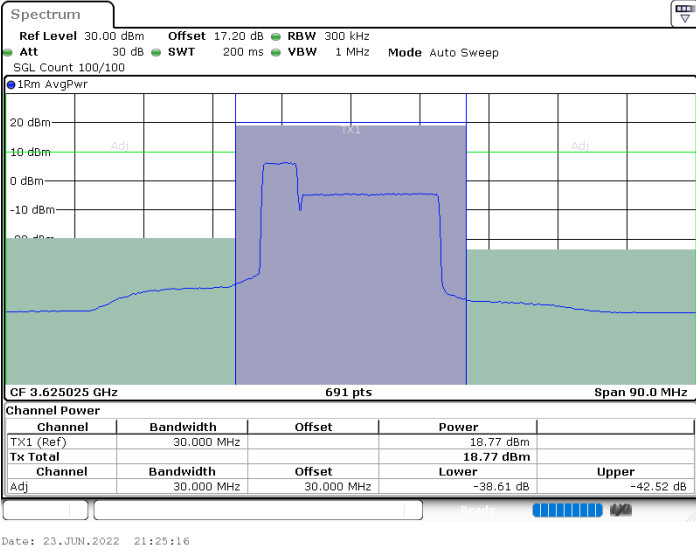
Middle Channel / 1RB0 and 1RB9

Middle Channel / 1RB24 and 1RB0



Middle Channel / FullIRB

N/A



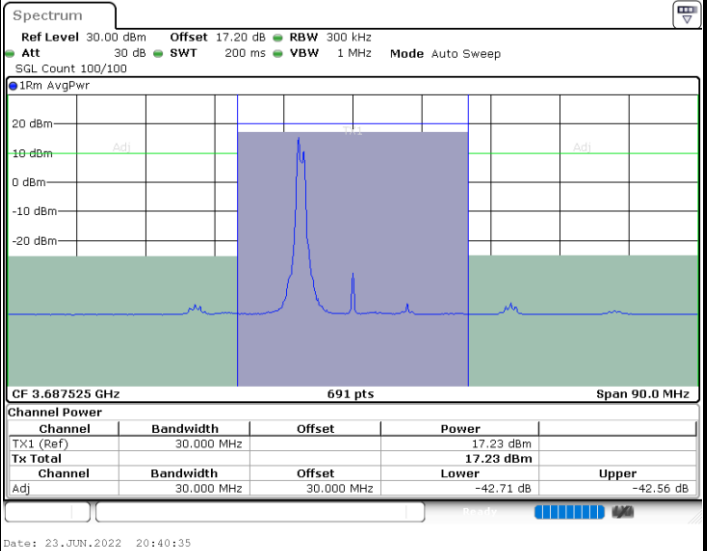
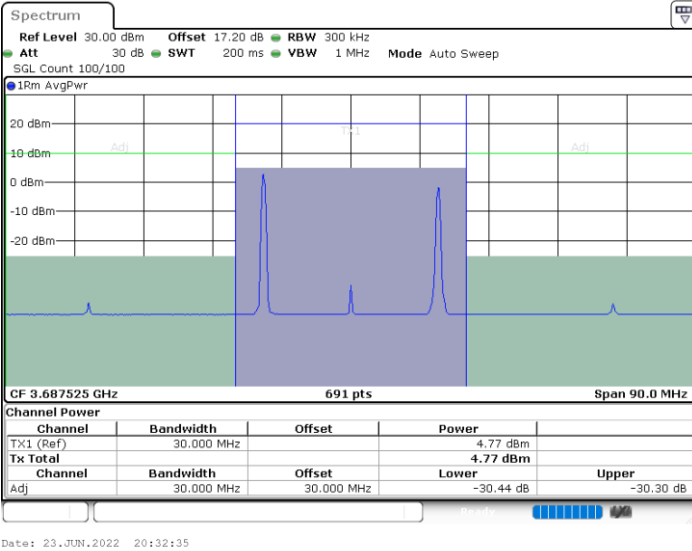


LTE Band 48C / 5MHz+20MHz

QPSK

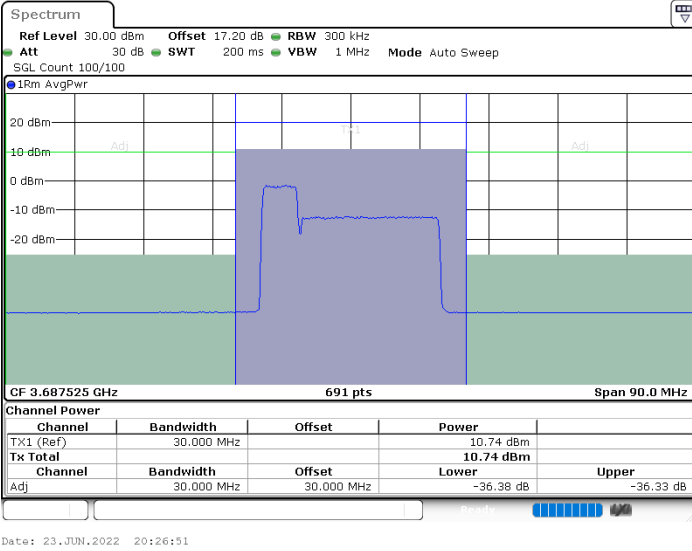
Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB24 and 1RB0



Highest Channel / FullIRB

N/A



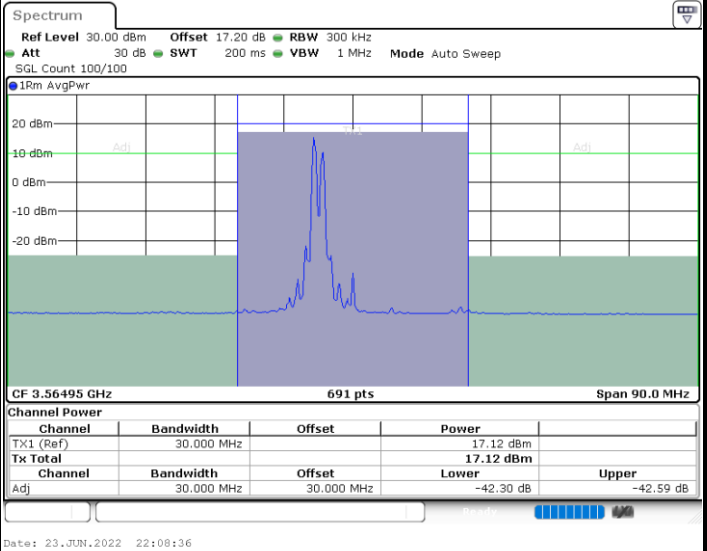
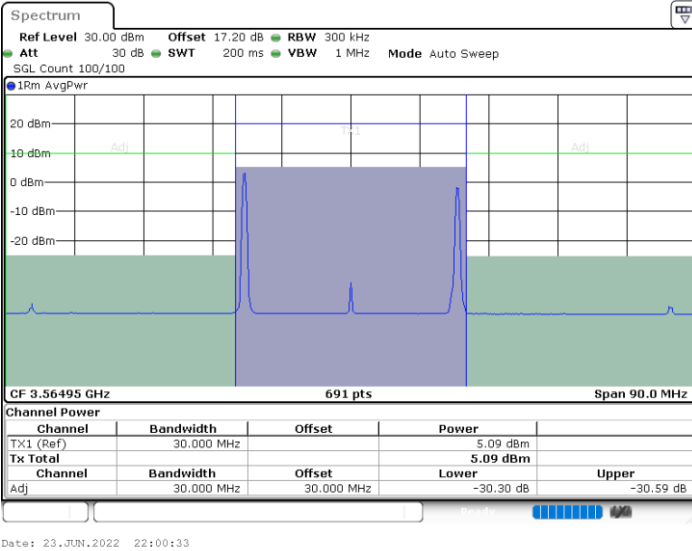


LTE Band 48C / 10MHz+20MHz

QPSK

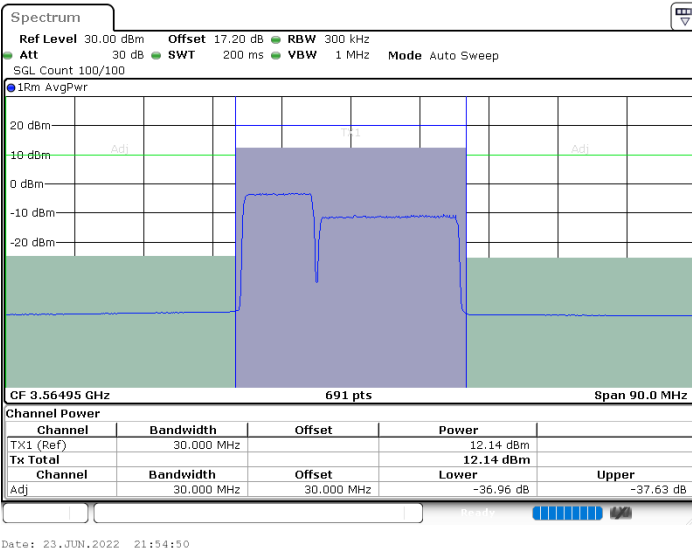
Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB49 and 1RB0



Lowest Channel / FullIRB

N/A



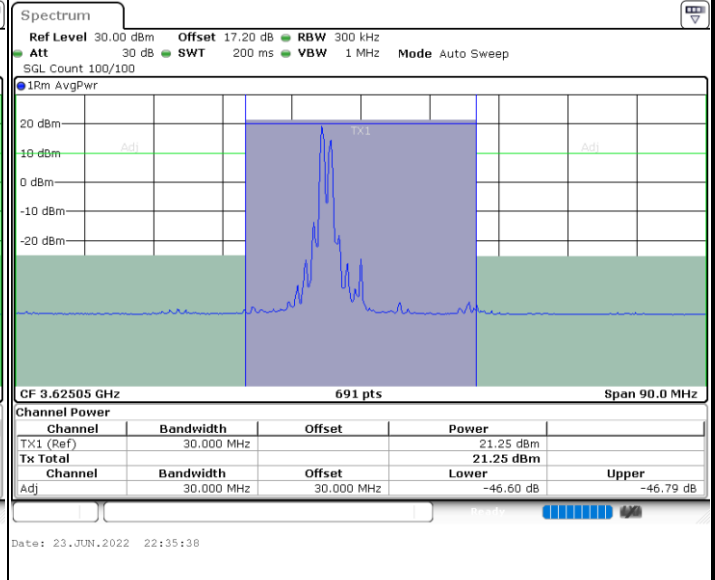
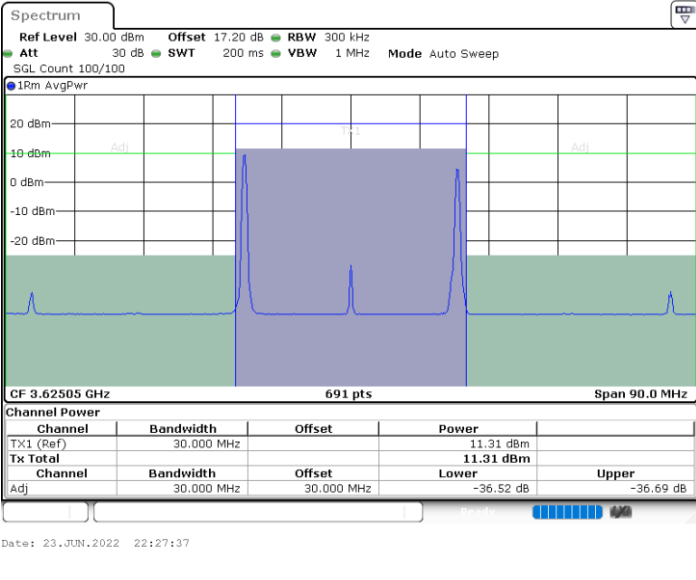


LTE Band 48C / 10MHz+20MHz

QPSK

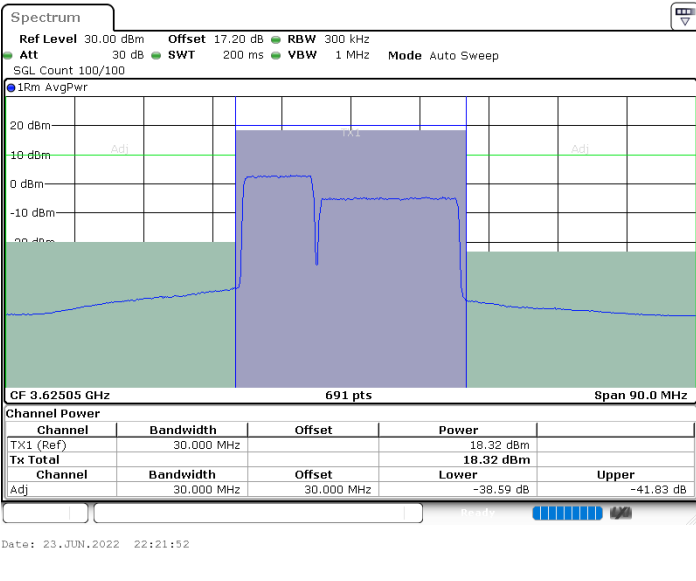
Middle Channel / 1RB0 and 1RB9

Middle Channel / 1RB49 and 1RB0



Middle Channel / FullIRB

N/A



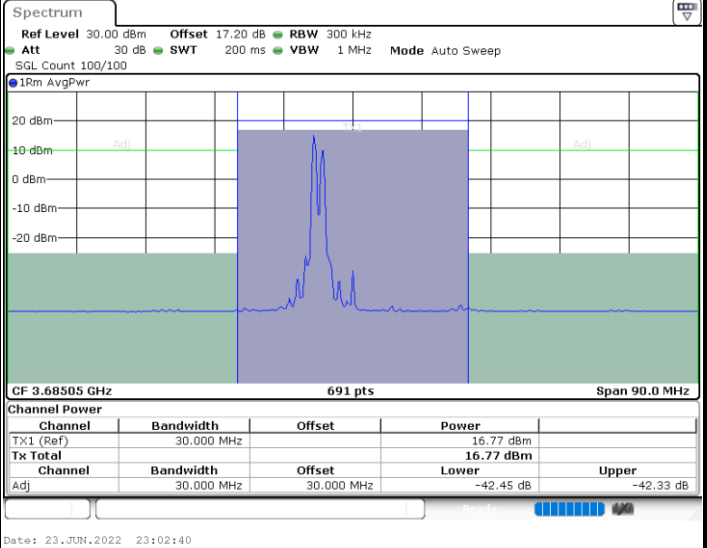
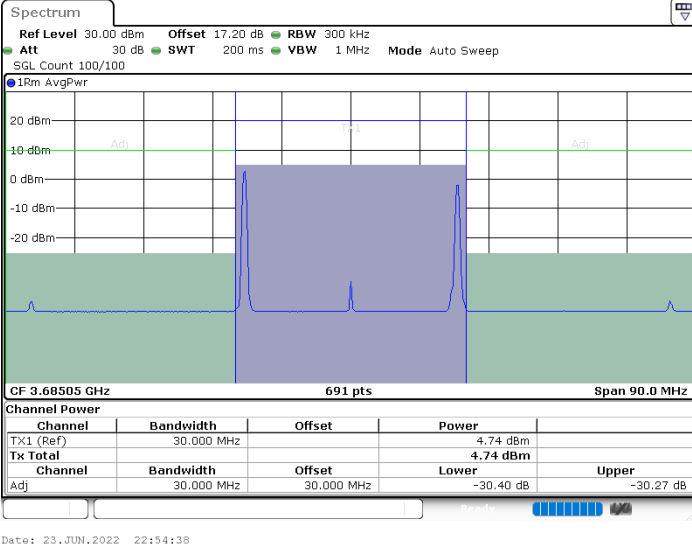


LTE Band 48C / 10MHz+20MHz

QPSK

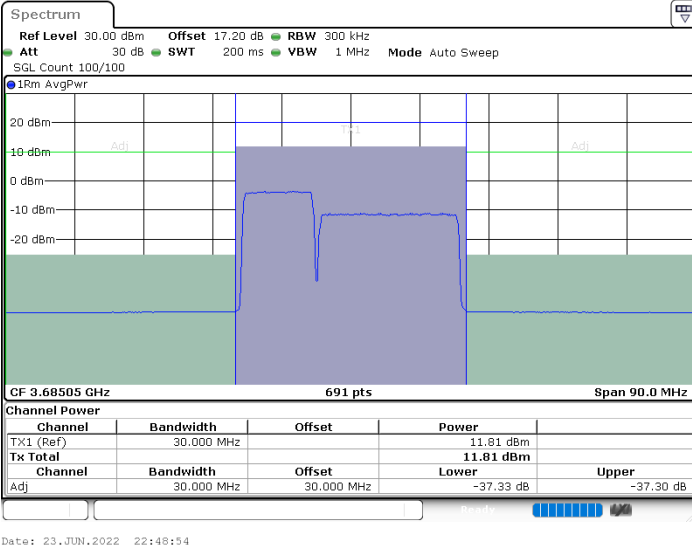
Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB49 and 1RB0



Highest Channel / FullIRB

N/A



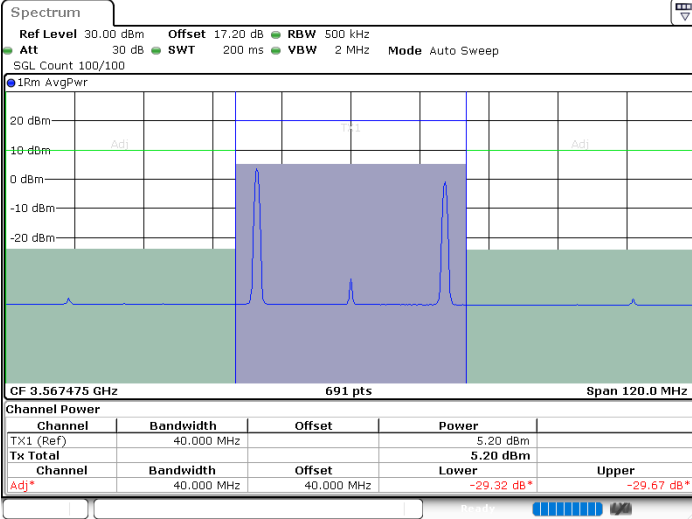


LTE Band 48C / 15MHz+20MHz

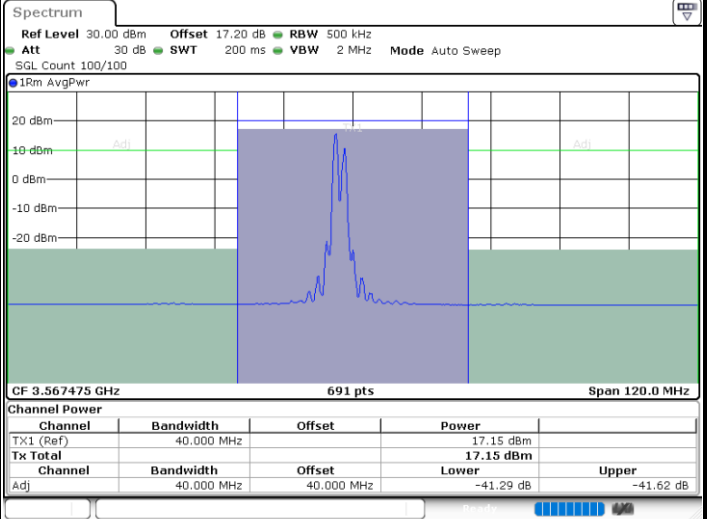
QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB74 and 1RB0



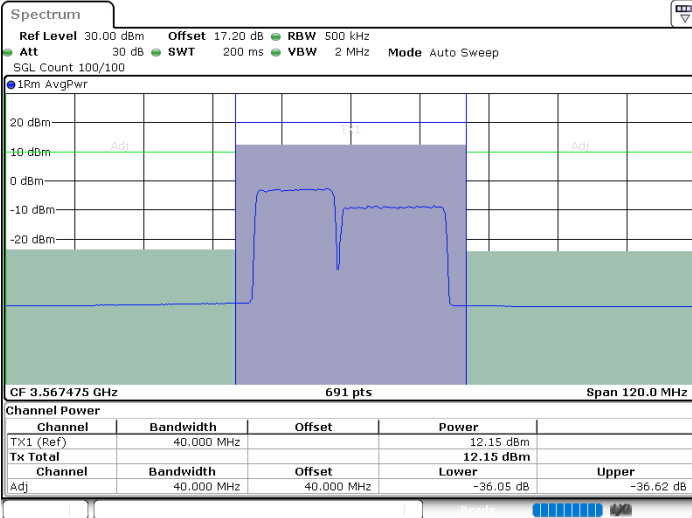
Date: 23 JUN.2022 23:21:44



Date: 23 JUN.2022 23:29:46

Lowest Channel / FullIRB

N/A



Date: 23 JUN.2022 23:15:57

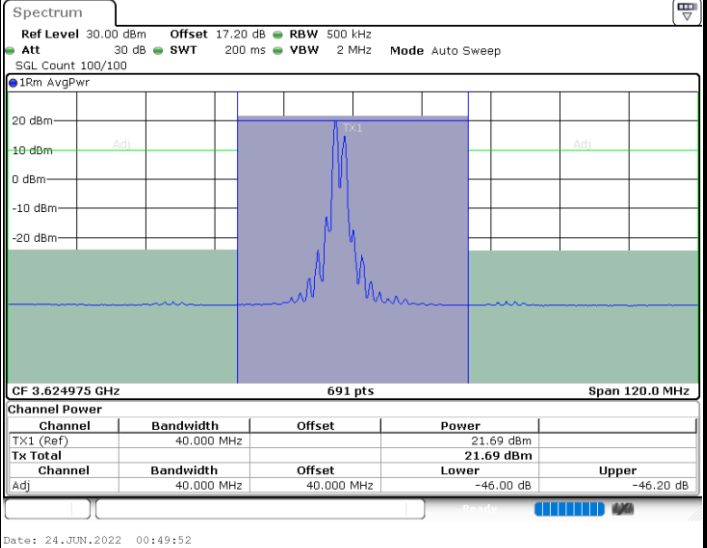
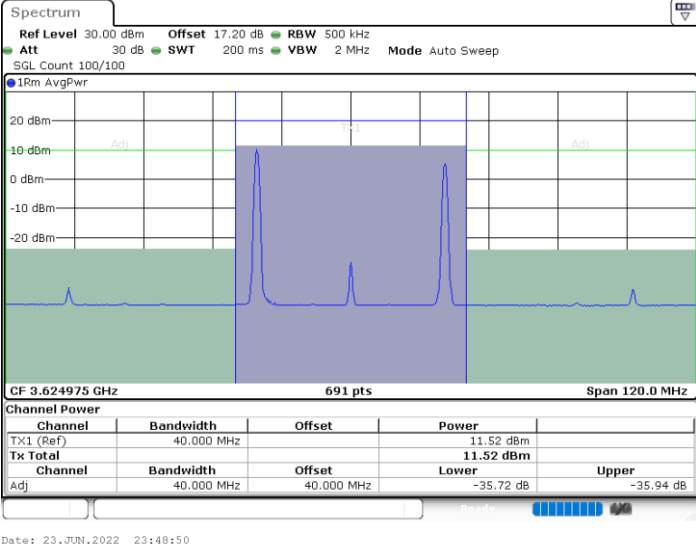


LTE Band 48C / 15MHz+20MHz

QPSK

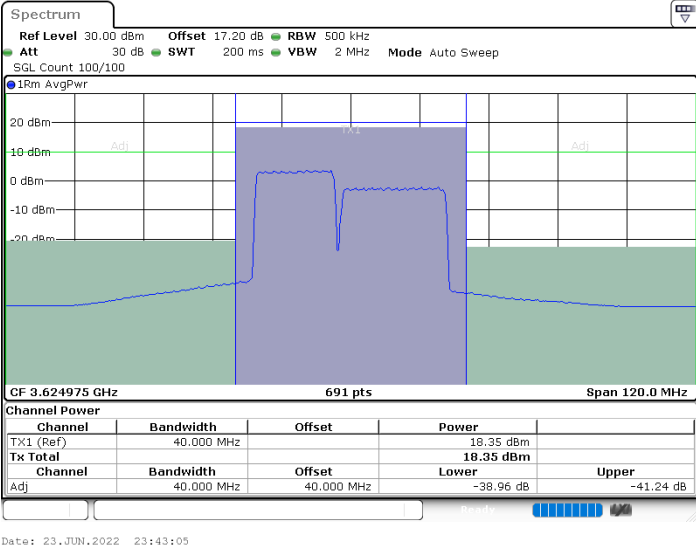
Middle Channel / 1RB0 and 1RB9

Middle Channel / 1RB74 and 1RB0



Middle Channel / FullIRB

N/A



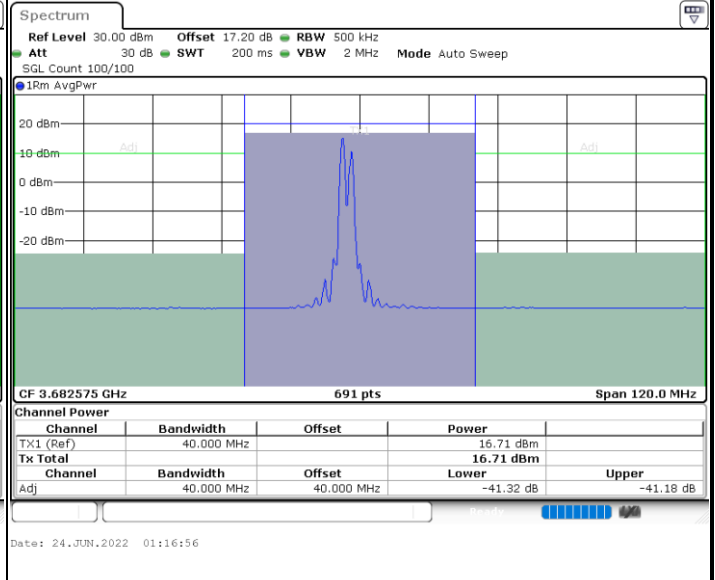


LTE Band 48C / 15MHz+20MHz

QPSK

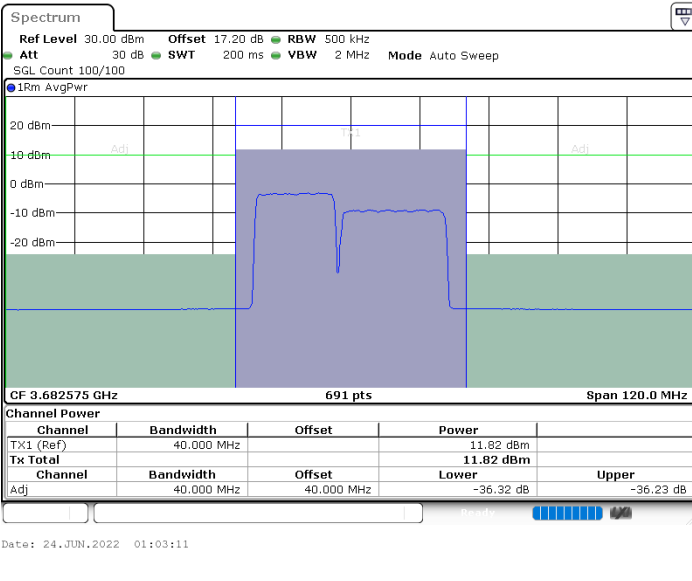
Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB74 and 1RB0



Highest Channel / FullIRB

N/A



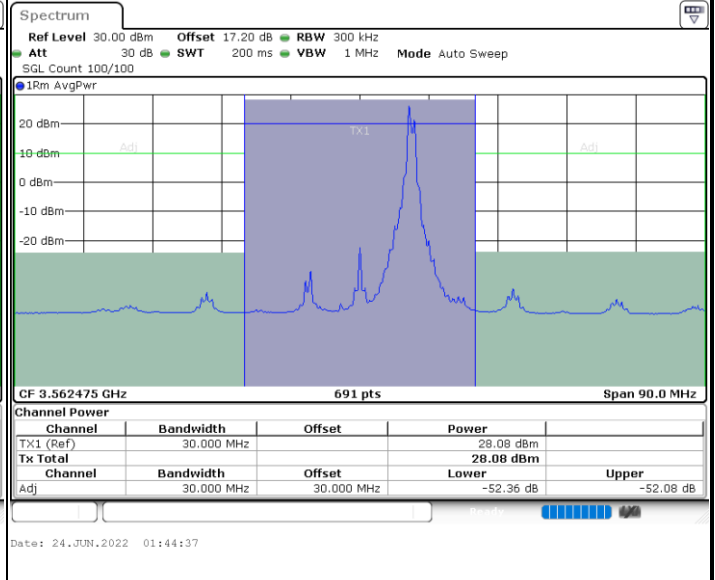


LTE Band 48C / 20MHz+5MHz

QPSK

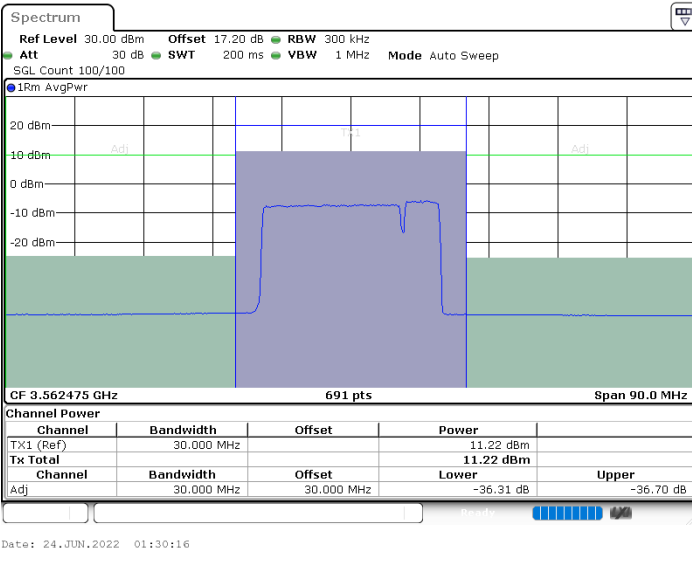
Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB99 and 1RB0



Lowest Channel / FullIRB

N/A



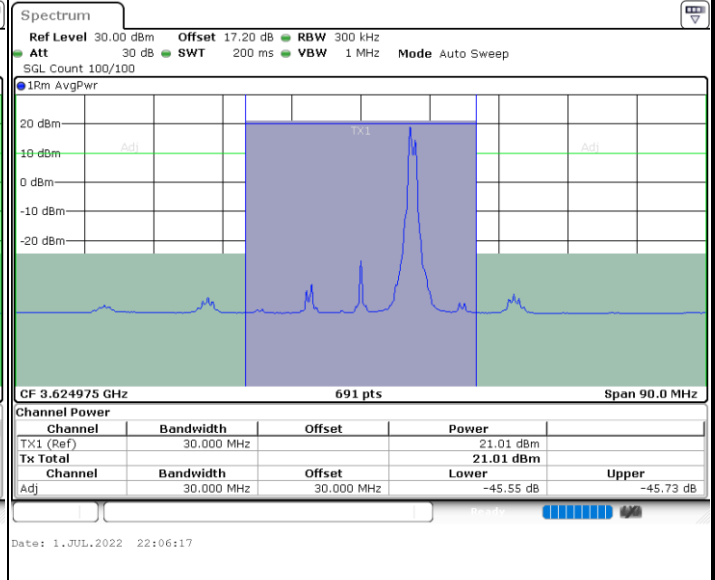
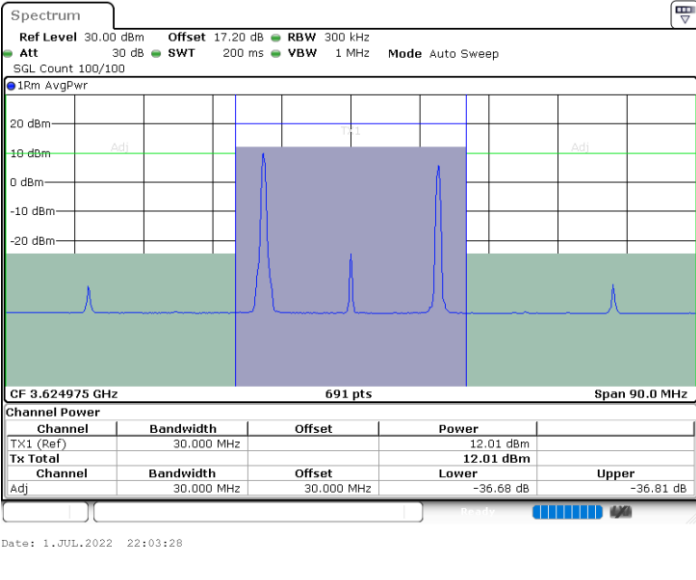


LTE Band 48C / 20MHz+5MHz

QPSK

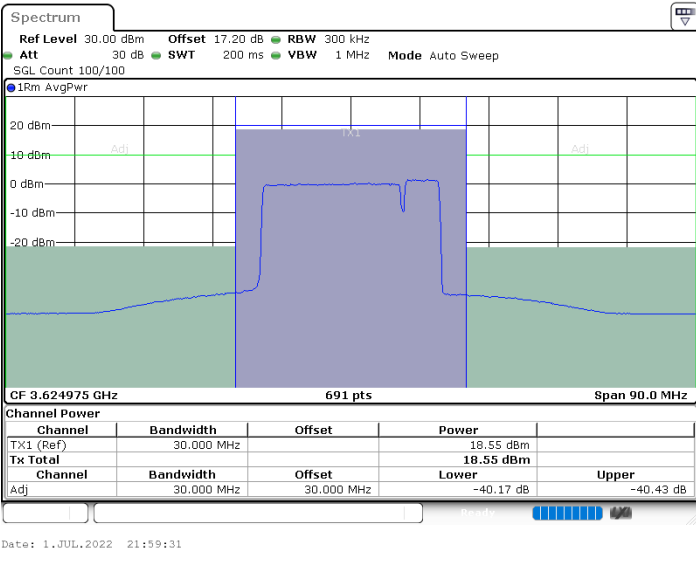
Middle Channel / 1RB0 and 1RB24

Middle Channel / 1RB99 and 1RB0



Middle Channel / FullIRB

N/A



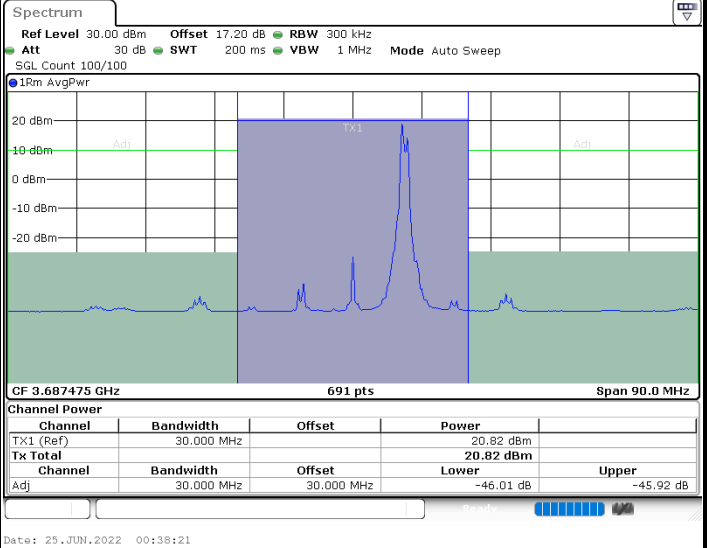
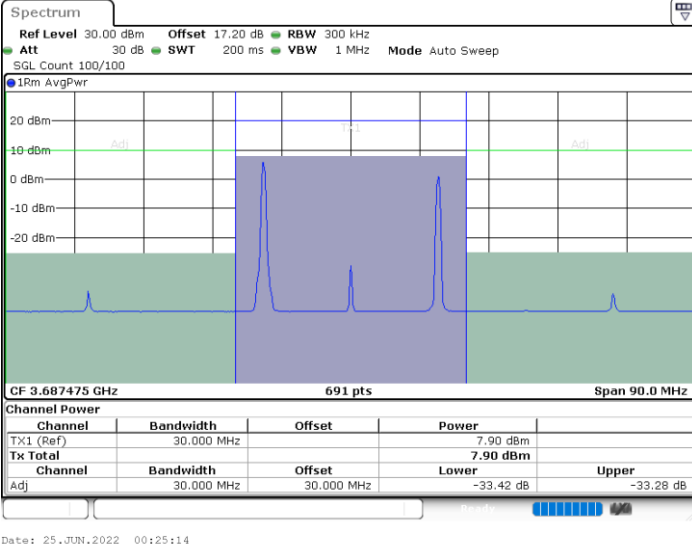


LTE Band 48C / 20MHz+5MHz

QPSK

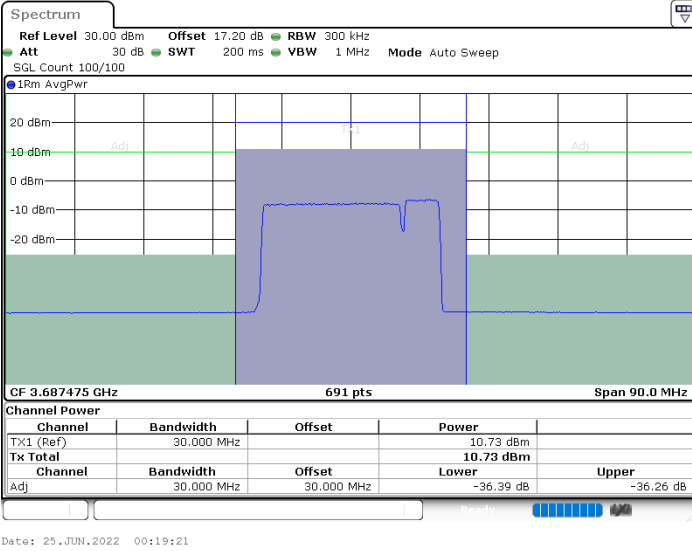
Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB99 and 1RB0



Highest Channel / FullIRB

N/A



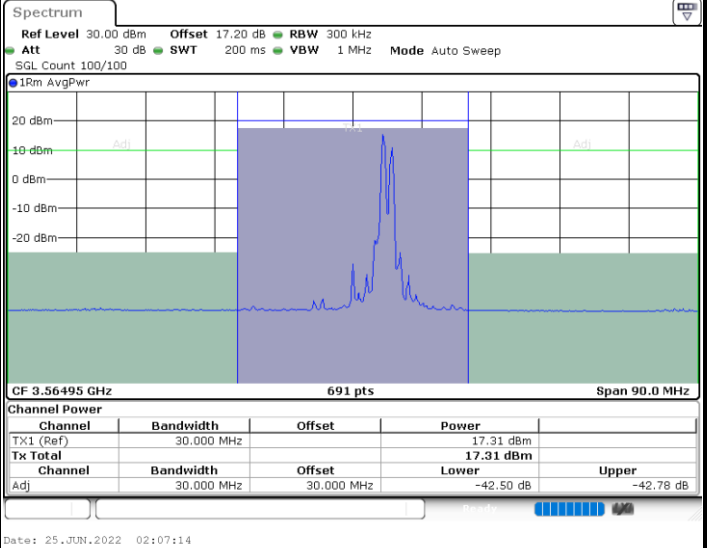
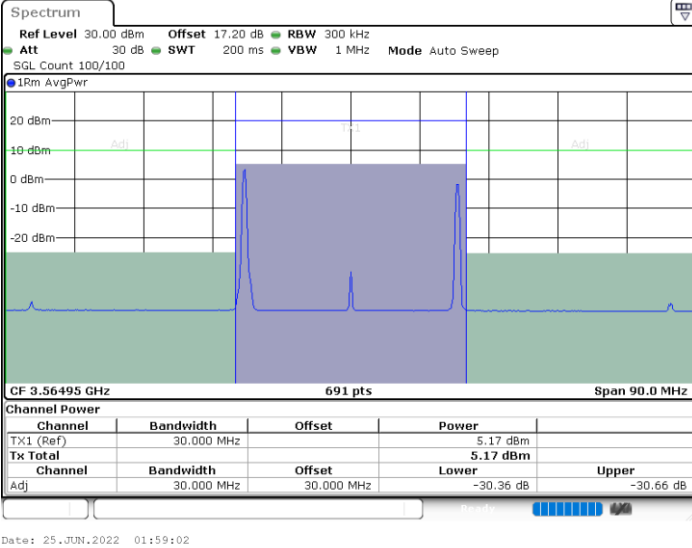


LTE Band 48C / 20MHz+10MHz

QPSK

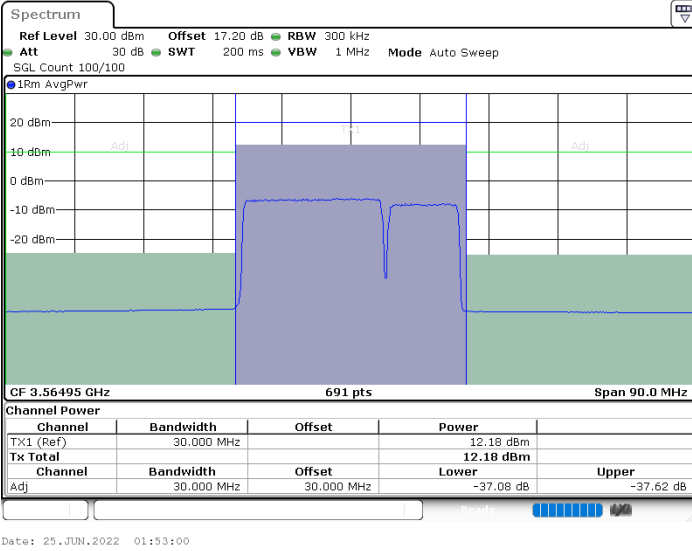
Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB99 and 1RB0



Lowest Channel / FullIRB

N/A



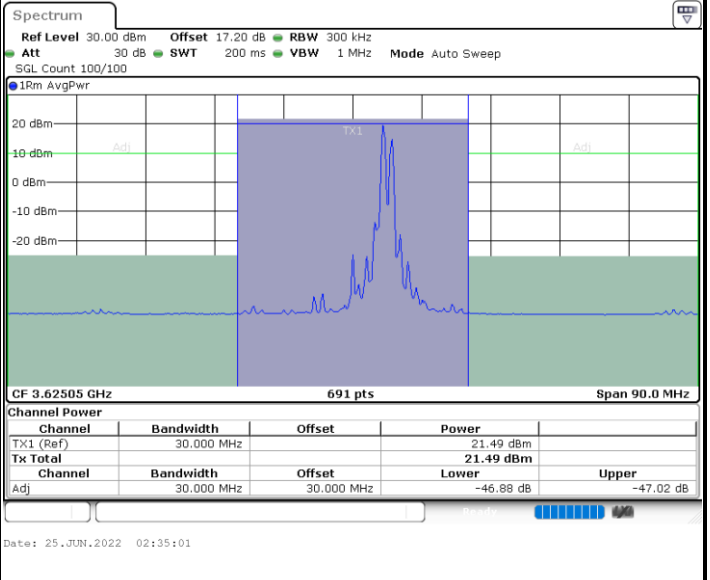


LTE Band 48C / 20MHz+10MHz

QPSK

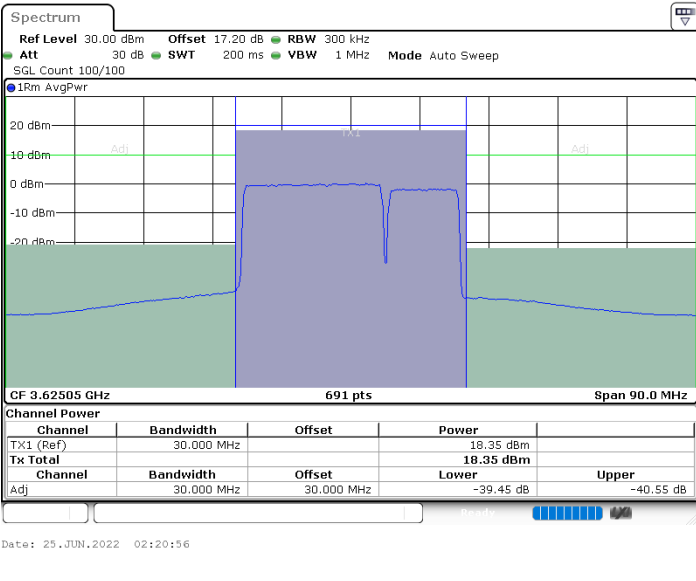
Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB99 and 1RB0



Middle Channel / FullIRB

N/A



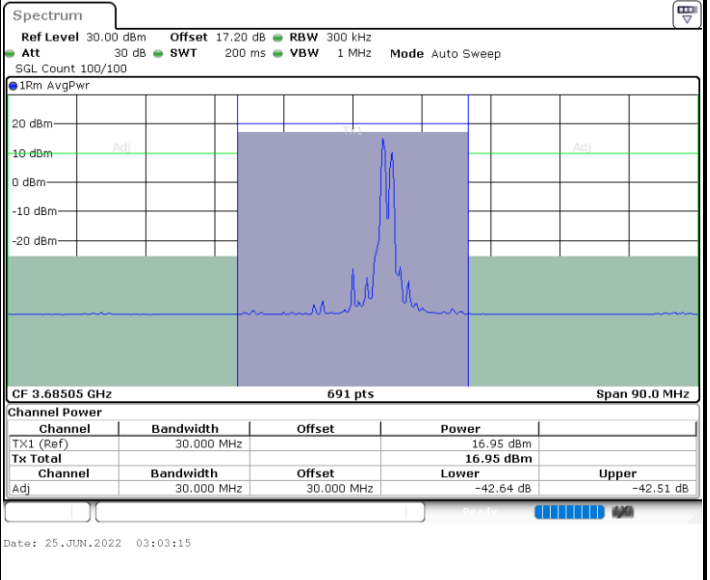


LTE Band 48C / 20MHz+10MHz

QPSK

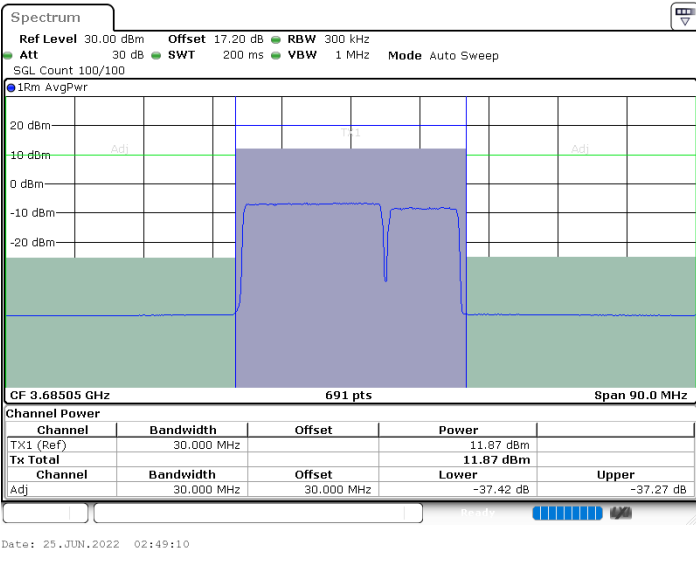
Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB99 and 1RB0



Highest Channel / FullIRB

N/A



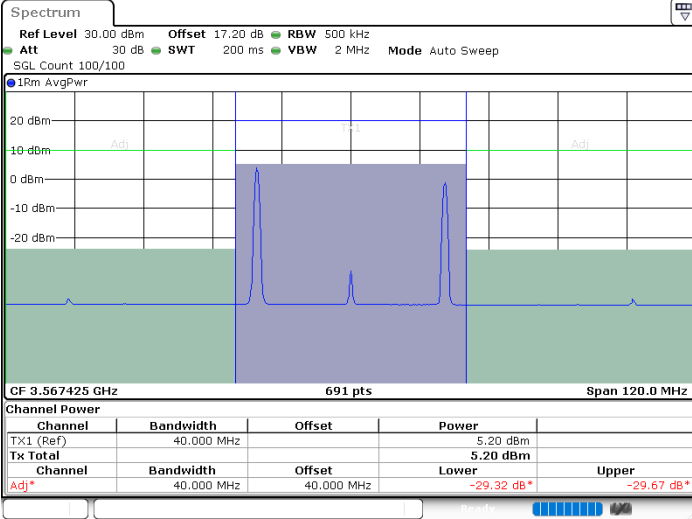


LTE Band 48C / 20MHz+15MHz

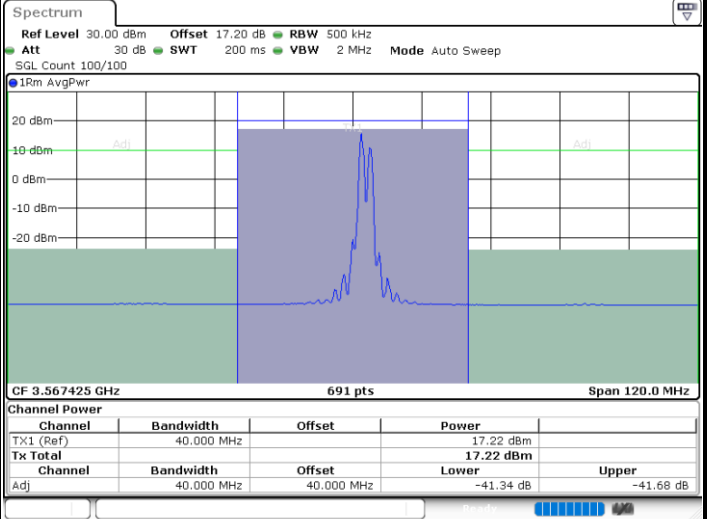
QPSK

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0



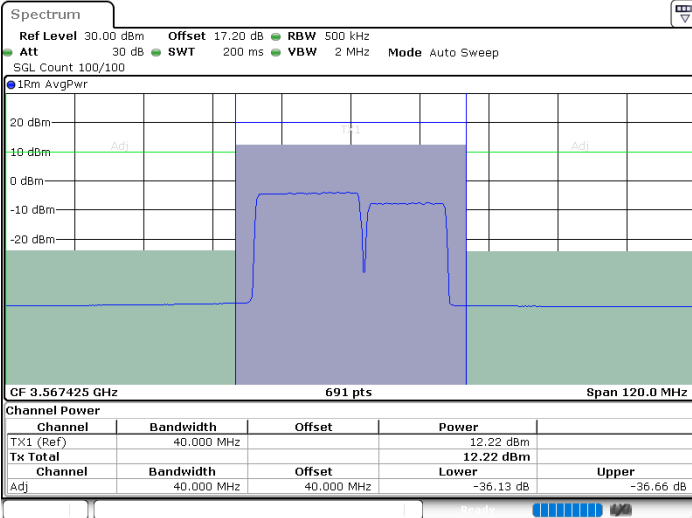
Date: 25 JUN.2022 03:22:33



Date: 25 JUN.2022 03:30:40

Lowest Channel / FullIRB

N/A



Date: 25 JUN.2022 03:16:43

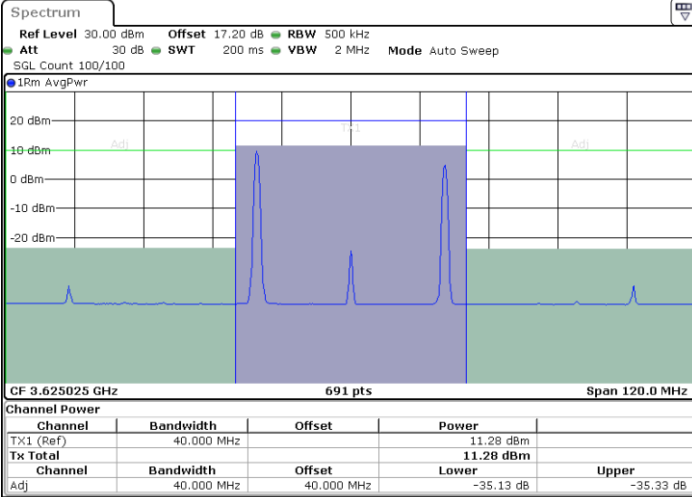


LTE Band 48C / 20MHz+15MHz

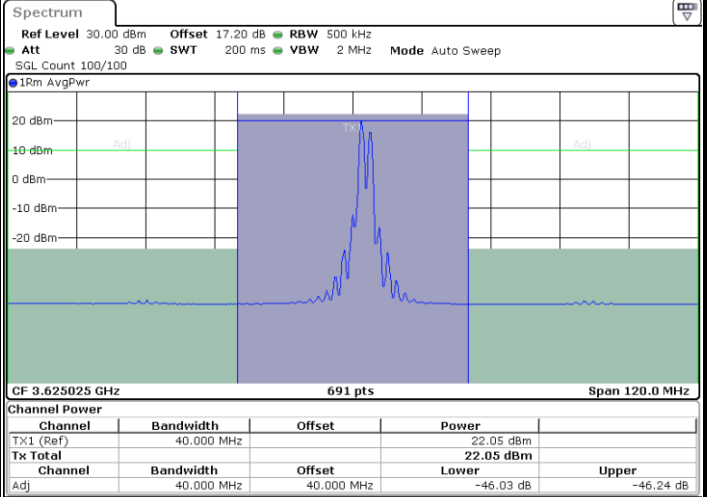
QPSK

Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0



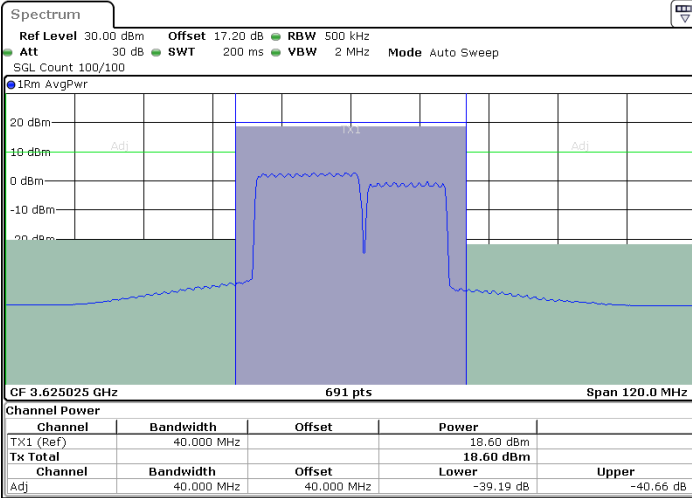
Date: 26 JUN.2022 08:48:39



Date: 26 JUN.2022 08:56:39

Middle Channel / FullIRB

N/A



Date: 26 JUN.2022 08:42:55

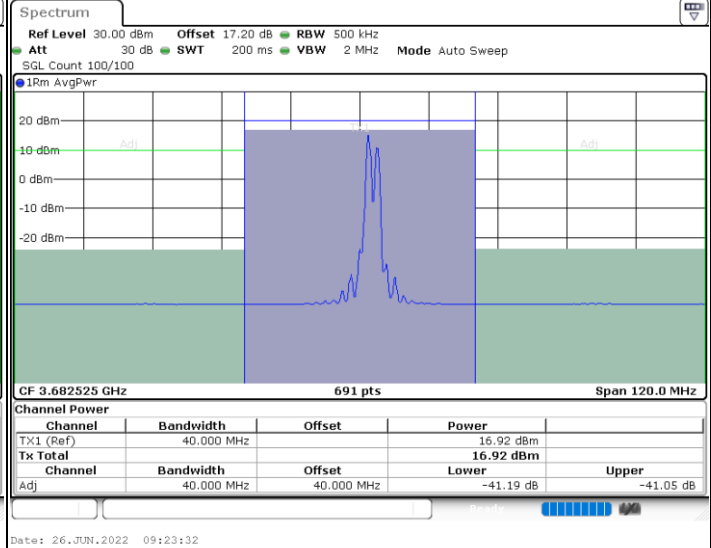
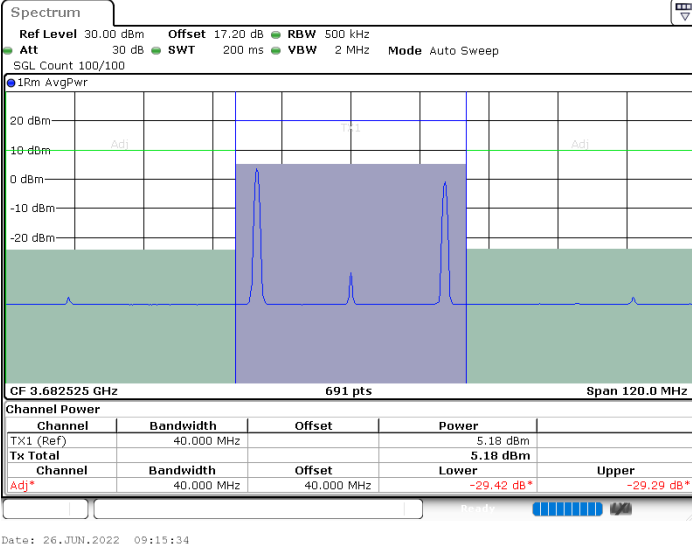


LTE Band 48C / 20MHz+15MHz

QPSK

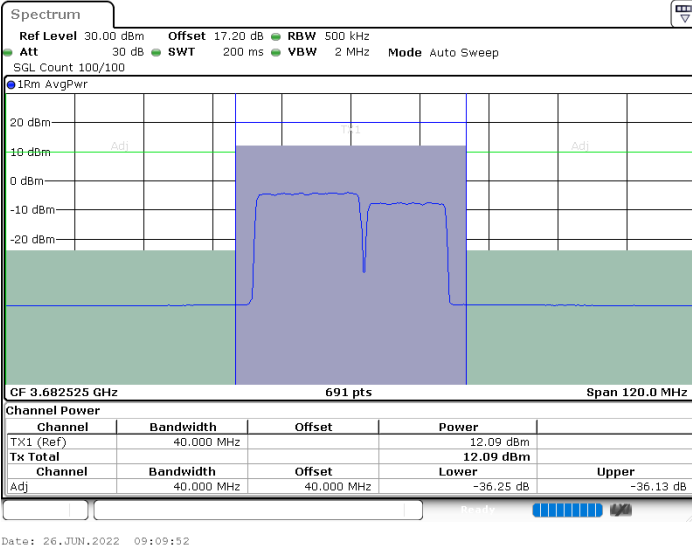
Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0



Highest Channel / FullIRB

N/A



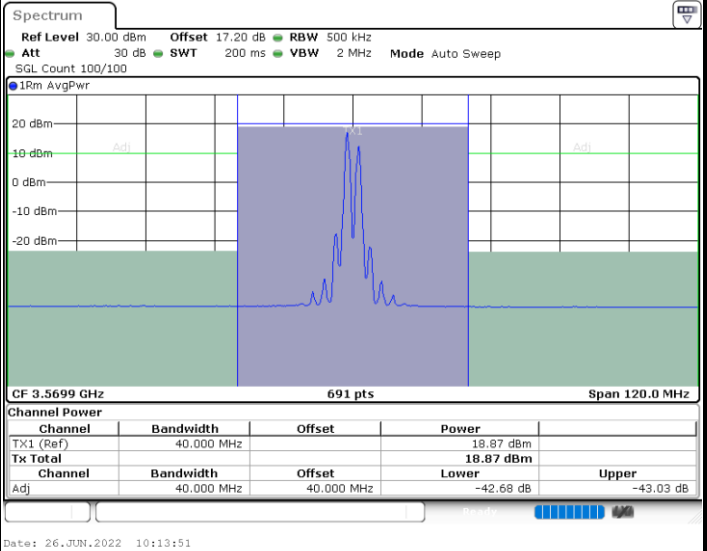


LTE Band 48C / 20MHz+20MHz

QPSK

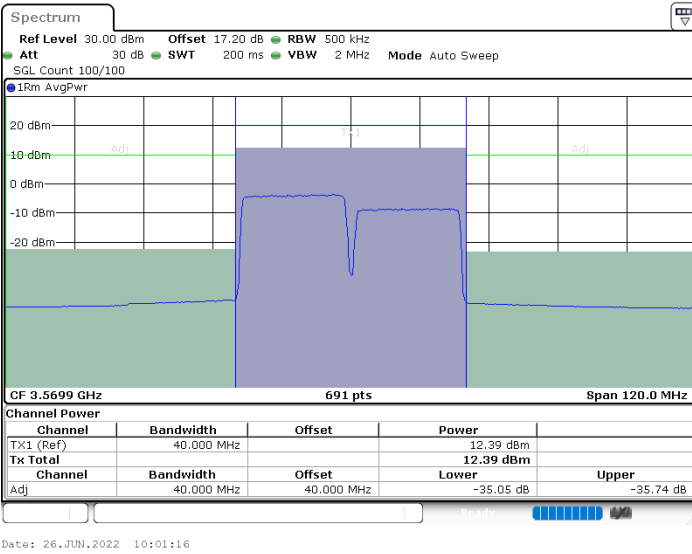
Lowest Channel / 1RB0 and 1RB9

Lowest Channel / 1RB99 and 1RB0



Lowest Channel / FullIRB

N/A



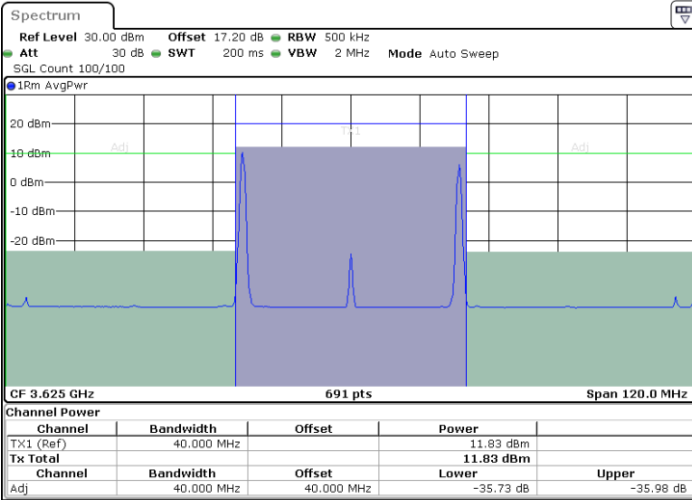


LTE Band 48C / 20MHz+20MHz

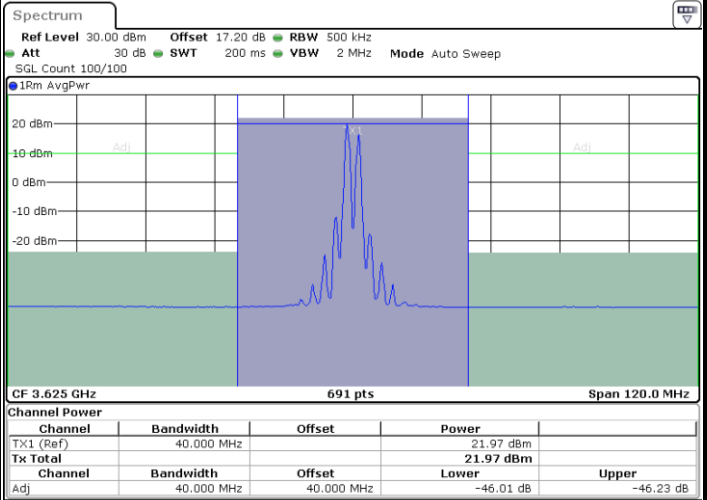
QPSK

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



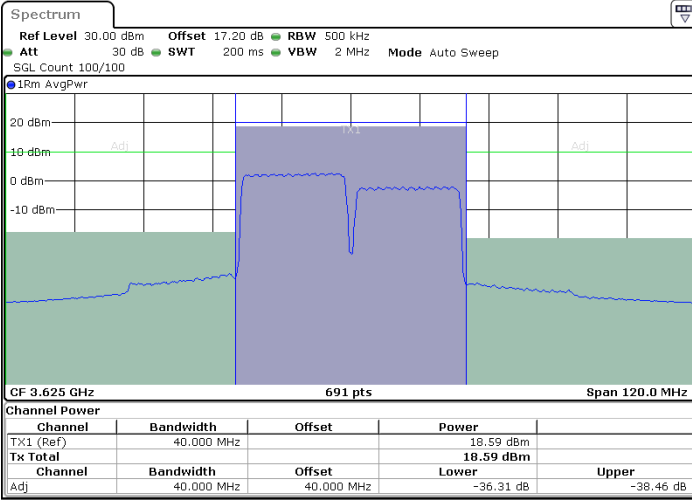
Date: 26 JUN.2022 10:31:18



Date: 26 JUN.2022 10:38:42

Middle Channel / FullIRB

N/A



Date: 26 JUN.2022 10:26:08

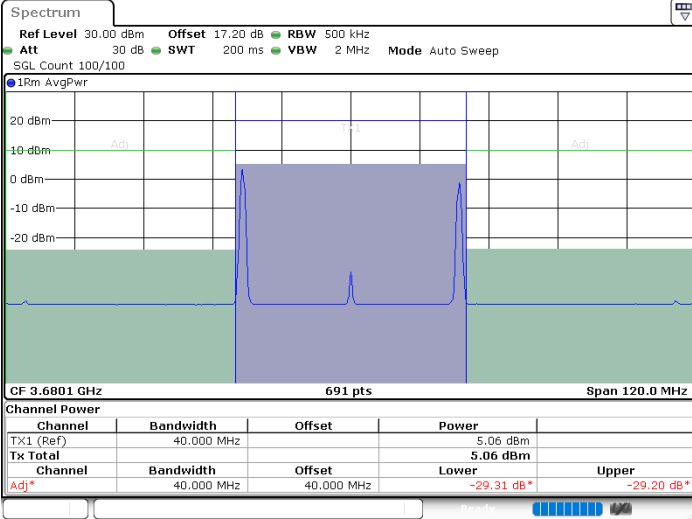


LTE Band 48C / 20MHz+20MHz

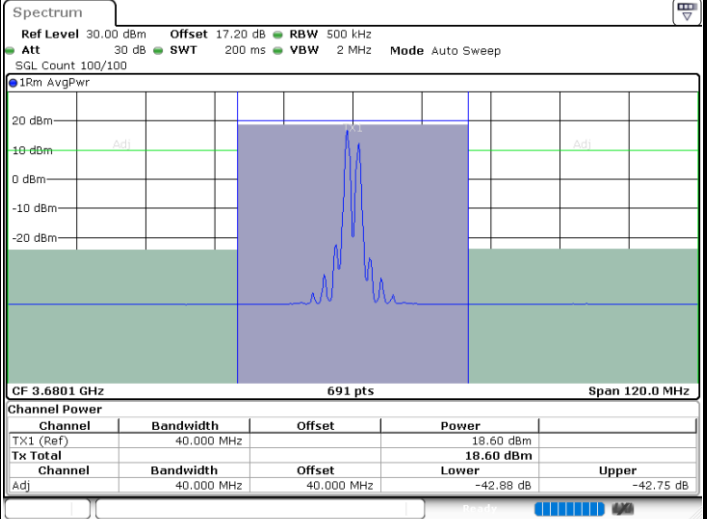
QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



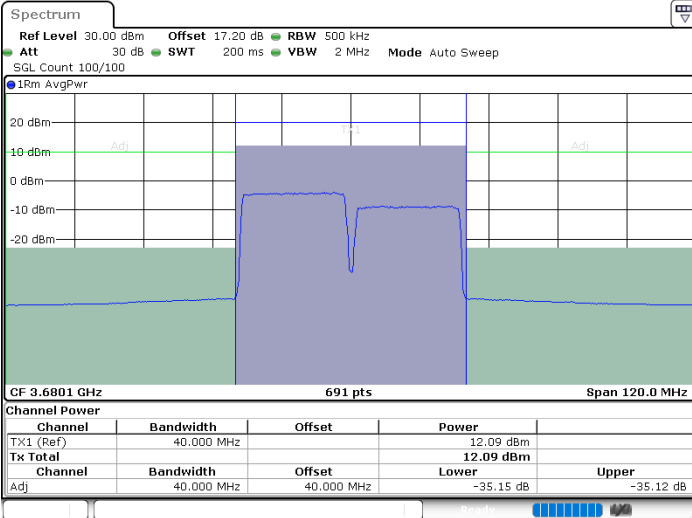
Date: 26 JUN.2022 09:41:36



Date: 26 JUN.2022 09:48:58

Highest Channel / FullIRB

N/A



Date: 26 JUN.2022 09:36:26

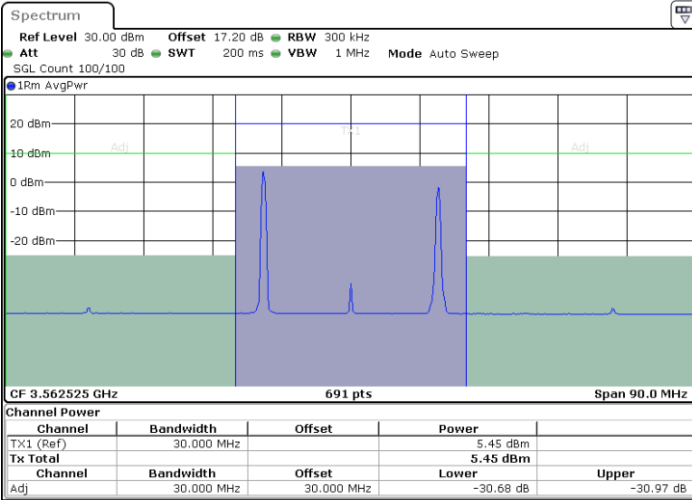


LTE Band 48C / 5MHz+20MHz

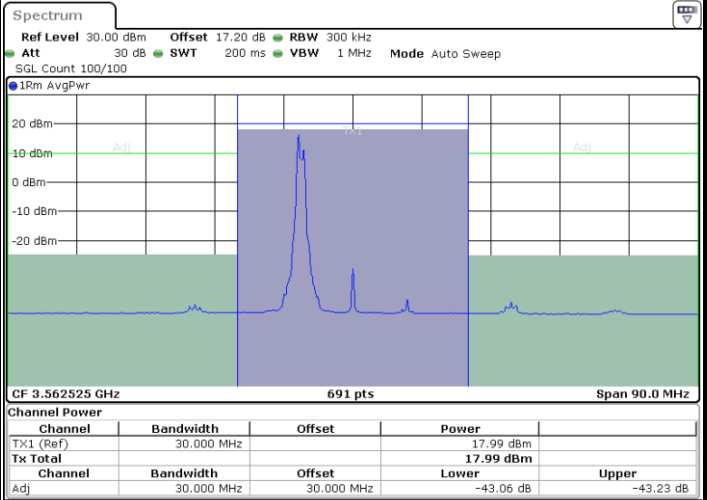
16QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB24 and 1RB0



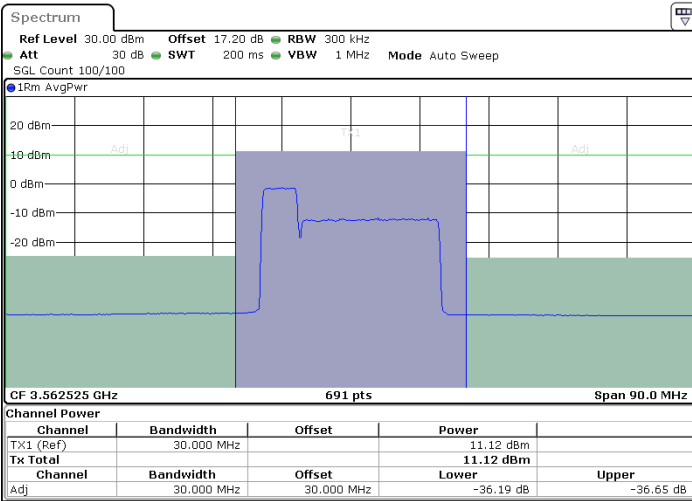
Date: 23.JUN.2022 21:06:26



Date: 23.JUN.2022 21:17:14

Lowest Channel / FullIRB

N/A



Date: 23.JUN.2022 20:56:31