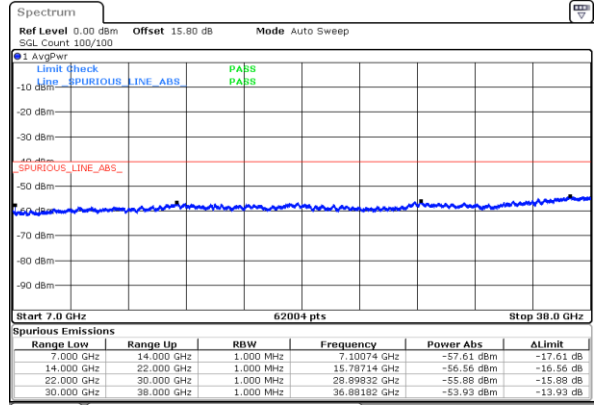
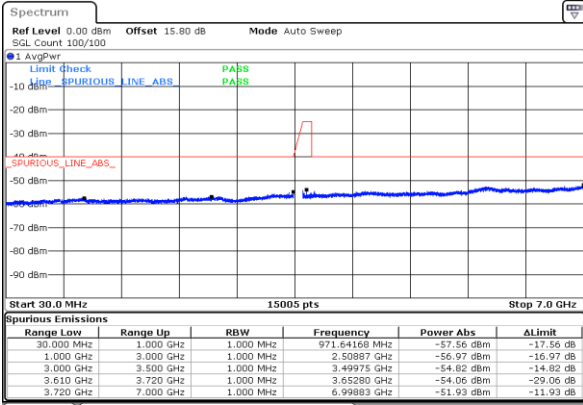




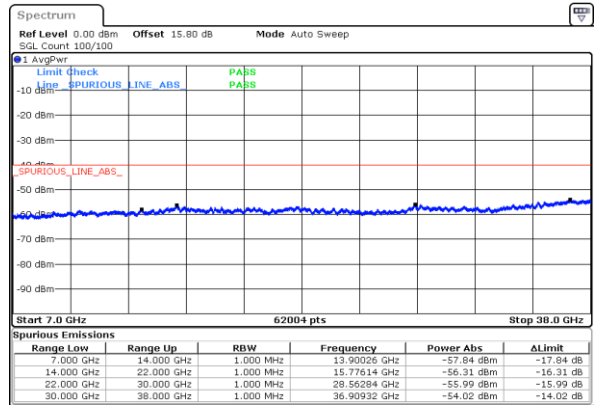
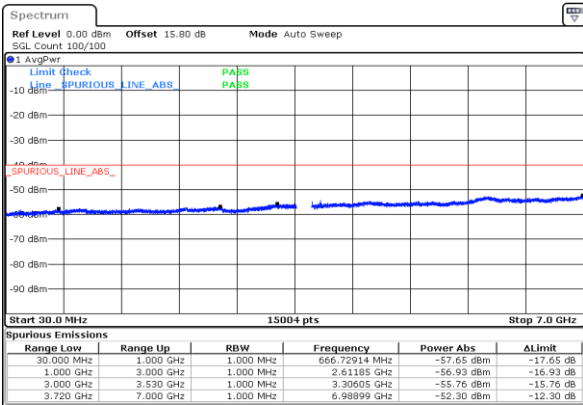
Conducted Spurious Emission

LTE Band 48 / 5MHz

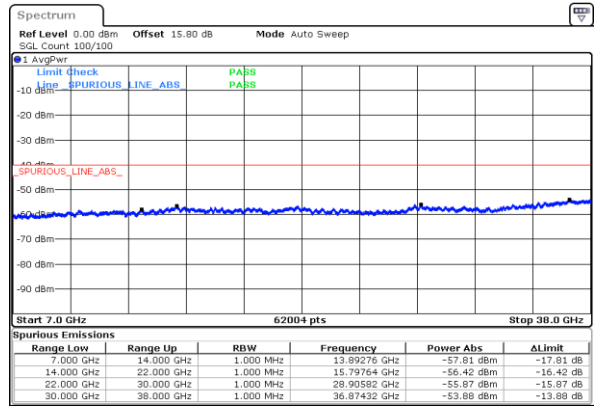
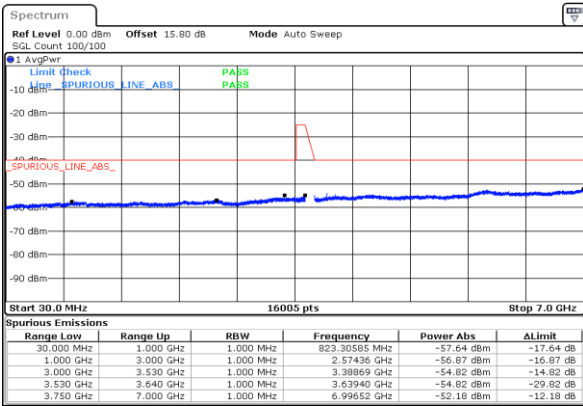
Lowest Channel / QPSK



Middle Channel / QPSK



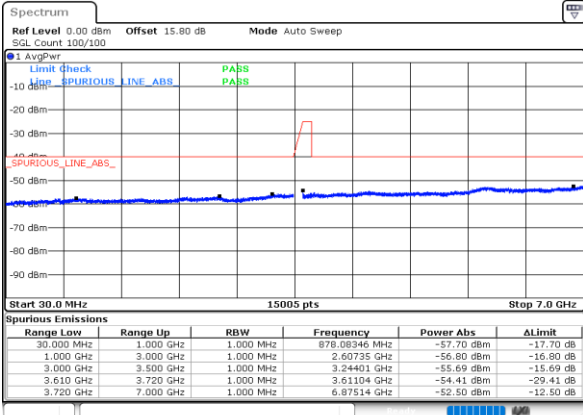
Highest Channel / QPSK



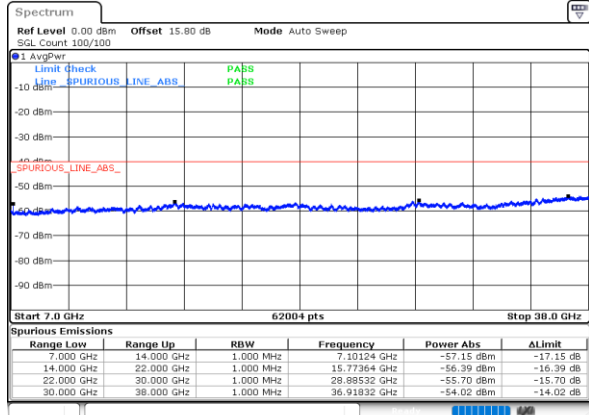


LTE Band 48 / 10MHz

Lowest Channel / QPSK

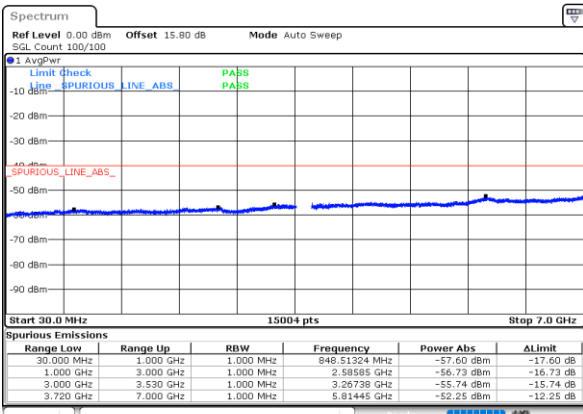


Date: 26.OCT.2022 18:36:11

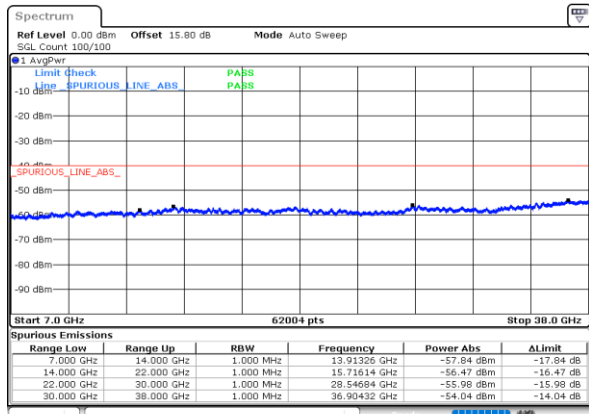


Date: 26.OCT.2022 18:37:24

Middle Channel / QPSK

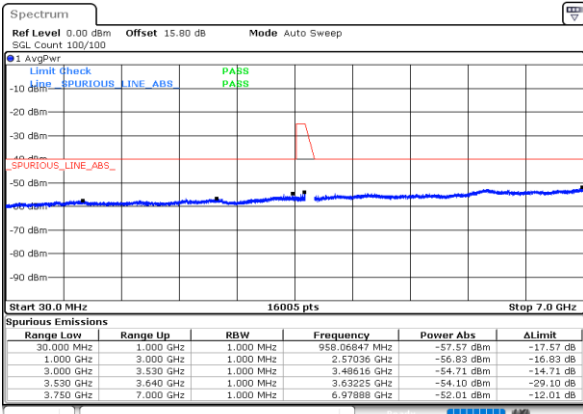


Date: 26.OCT.2022 18:47:28

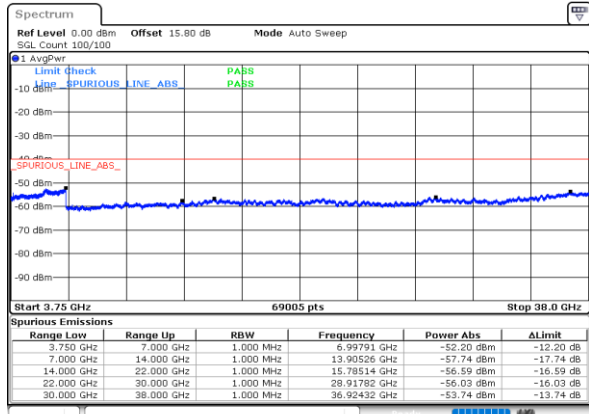


Date: 26.OCT.2022 18:48:41

Highest Channel / QPSK



Date: 26.OCT.2022 18:58:52

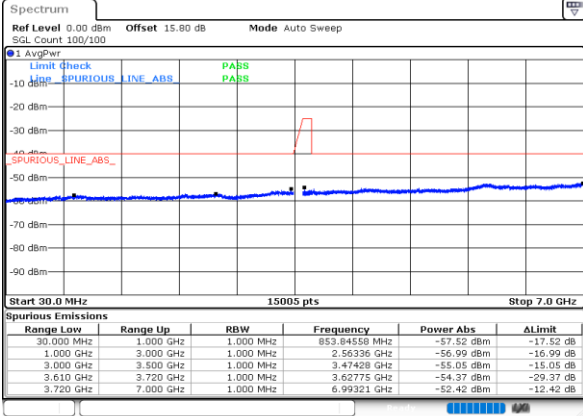


Date: 26.OCT.2022 19:00:04

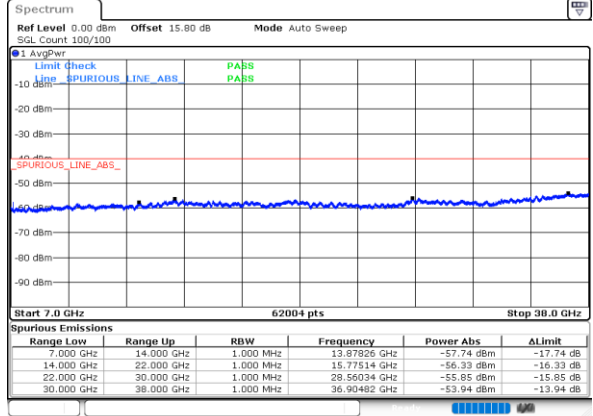


LTE Band 48 / 15MHz

Lowest Channel / QPSK

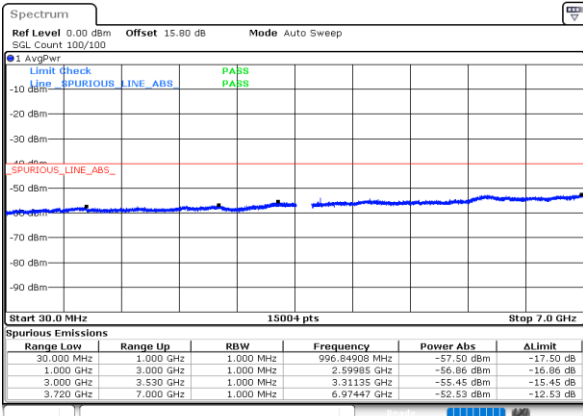


Date: 26.OCT.2022 19:10:20

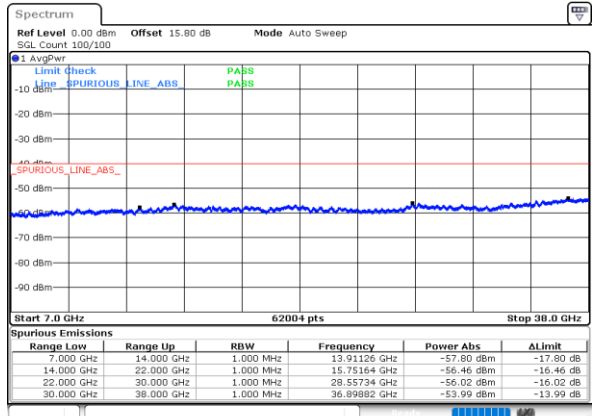


Date: 26.OCT.2022 19:11:33

Middle Channel / QPSK

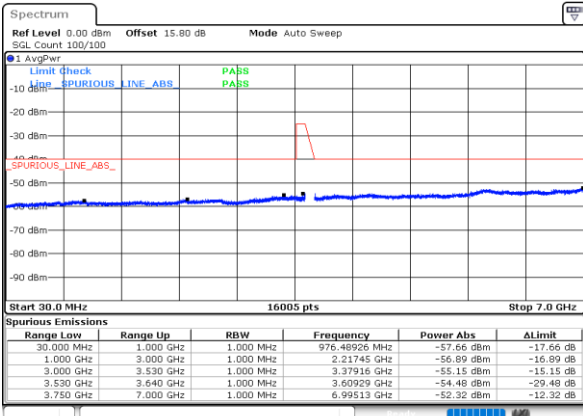


Date: 26.OCT.2022 19:21:38

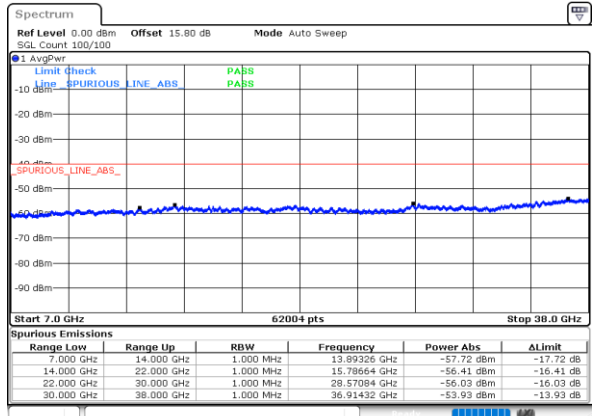


Date: 26.OCT.2022 19:22:51

Highest Channel / QPSK



Date: 26.OCT.2022 19:33:01

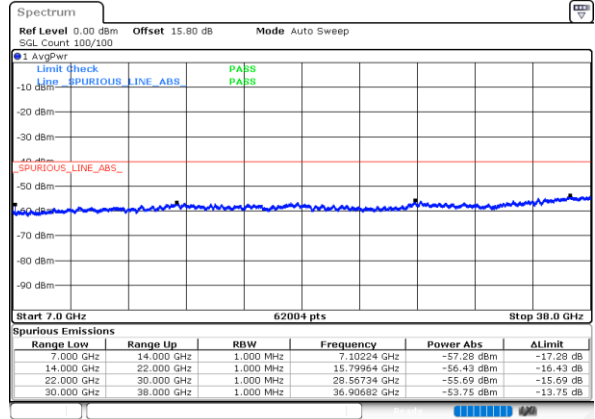
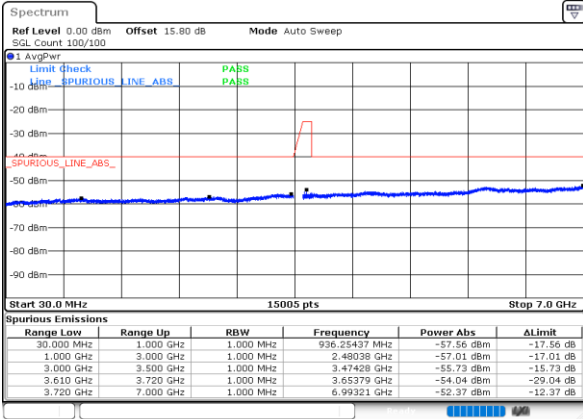


Date: 26.OCT.2022 19:34:14

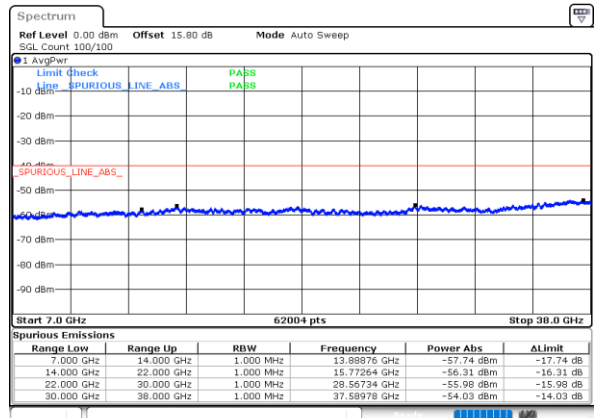
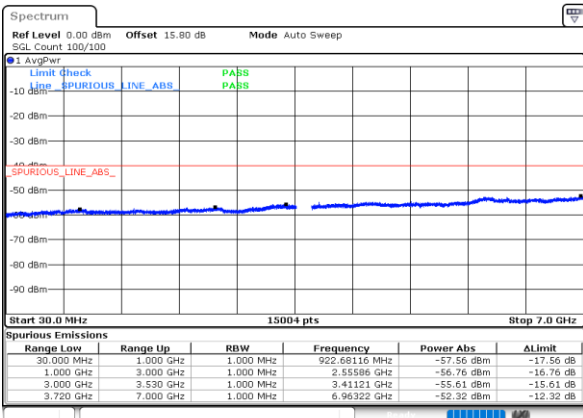


LTE Band 48 / 20MHz

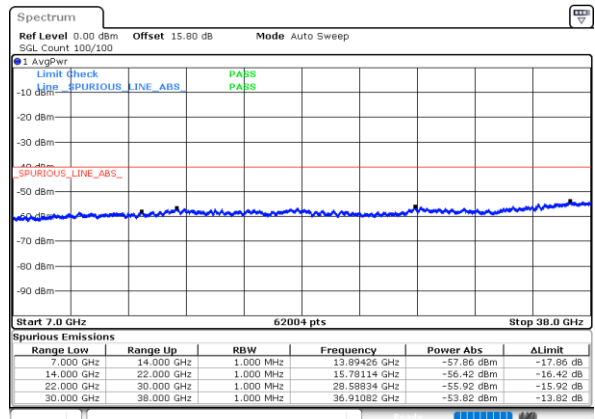
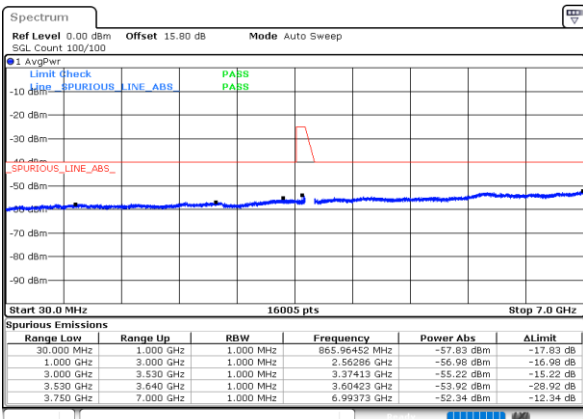
Lowest Channel / QPSK



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	0.0006	PASS
40	Normal Voltage	0.0039	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

- 1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 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	24.83	29.79	34.83	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	35.04	39.80	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.63	29.85	34.83	24.98
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.09	34.97	39.80	-

Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.78	29.97	34.69	25.13
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	34.97	39.88	-

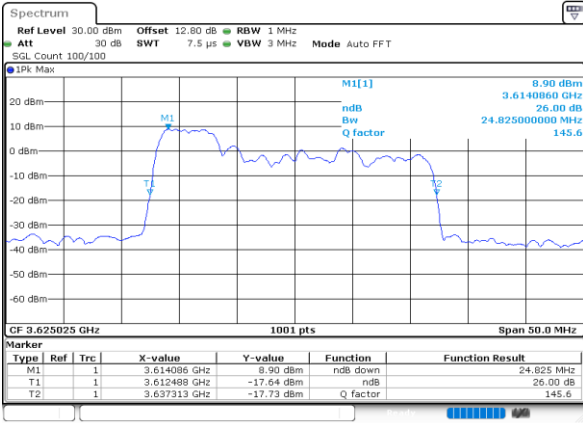
Mode	LTE Band 48C : 26dB BW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.78	29.97	34.97	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	34.97	39.88	-



LTE Band 48C

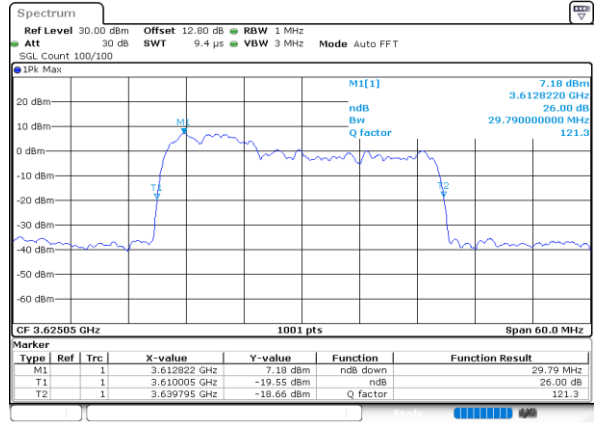
QPSK

Middle Channel / 5MHz+20MHz



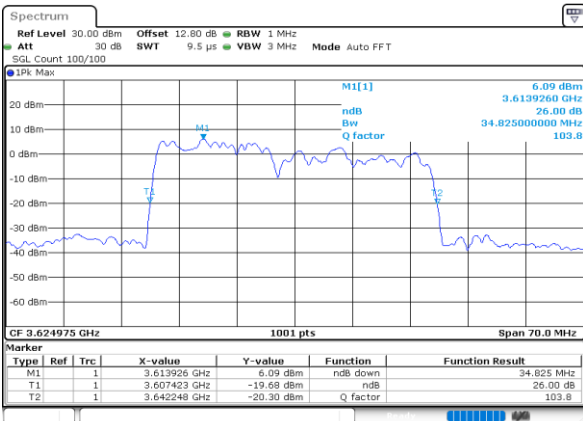
Date: 9.NOV.2022 15:17:14

Middle Channel / 10MHz+20MHz



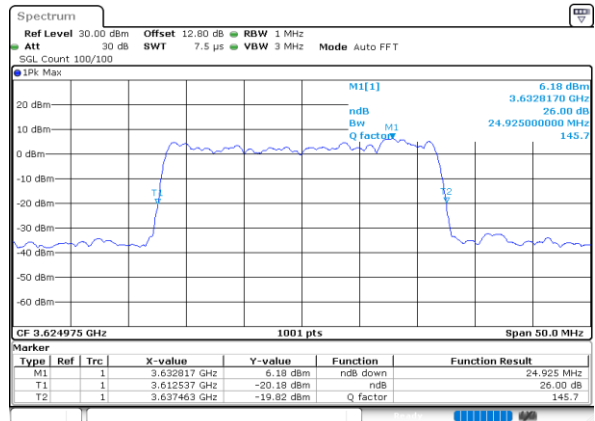
Date: 9.NOV.2022 15:22:31

Middle Channel / 15MHz+20MHz



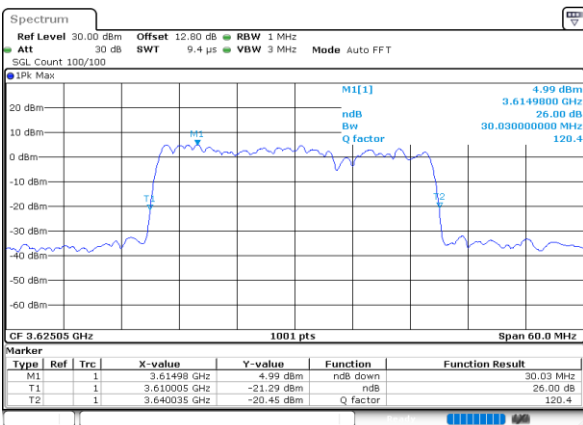
Date: 9.NOV.2022 15:27:46

Middle Channel / 20MHz+5MHz



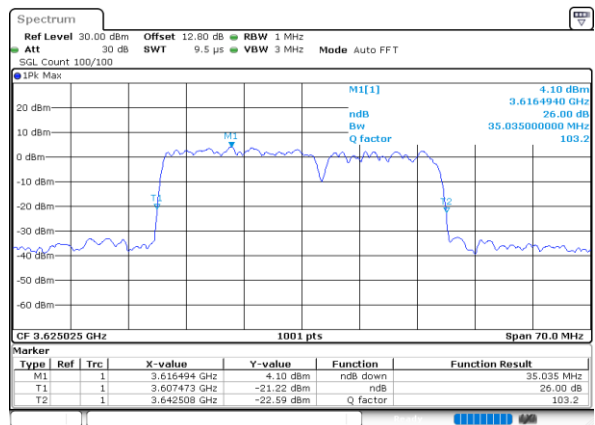
Date: 9.NOV.2022 15:33:02

Middle Channel / 20MHz+10MHz



Date: 9.NOV.2022 15:38:16

Middle Channel / 20MHz+15MHz



Date: 9.NOV.2022 15:43:30

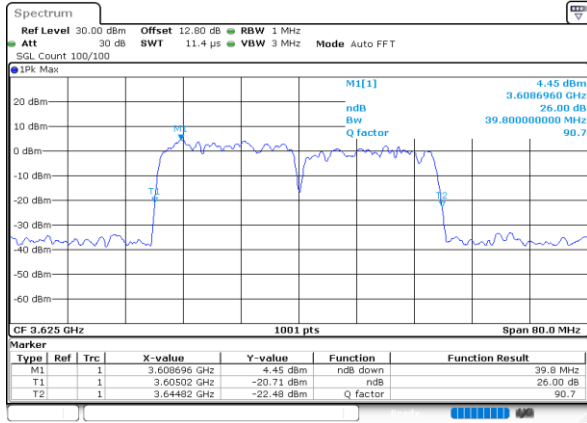


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A

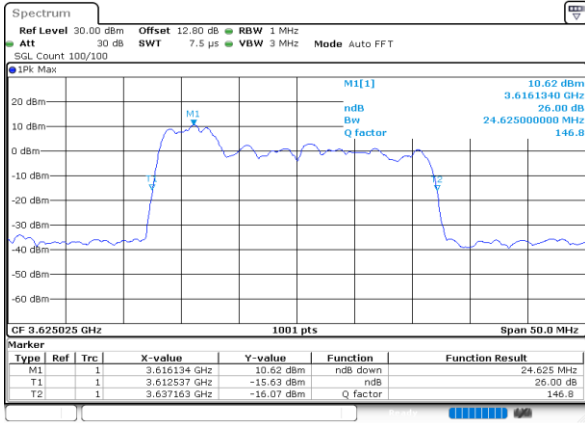




LTE Band 48C

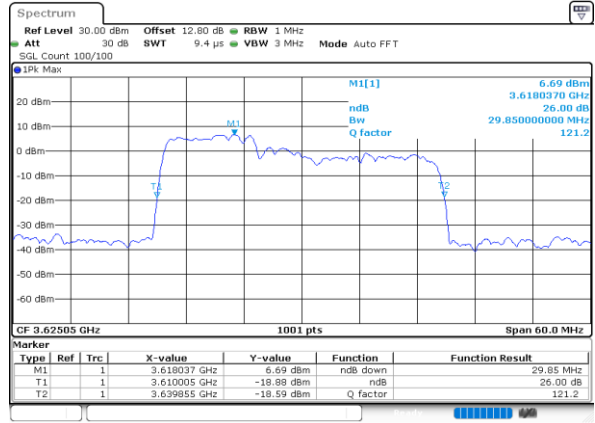
16QAM

Middle Channel / 5MHz+20MHz



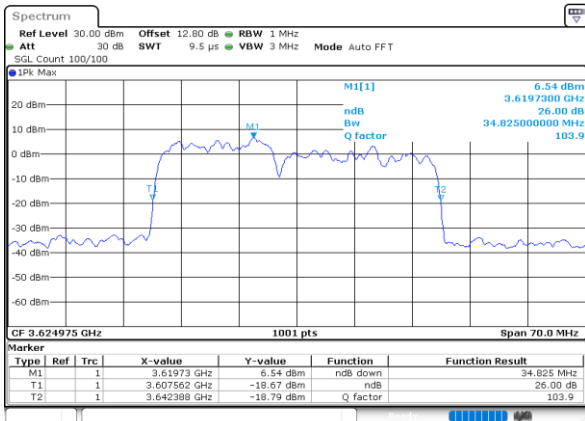
Date: 9.NOV.2022 15:17:52

Middle Channel / 10MHz+20MHz



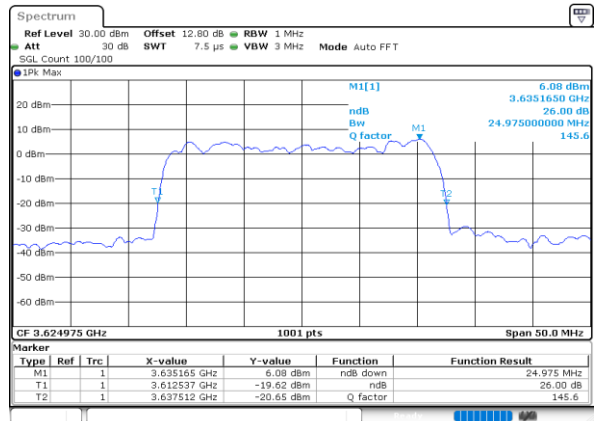
Date: 9.NOV.2022 15:23:09

Middle Channel / 15MHz+20MHz



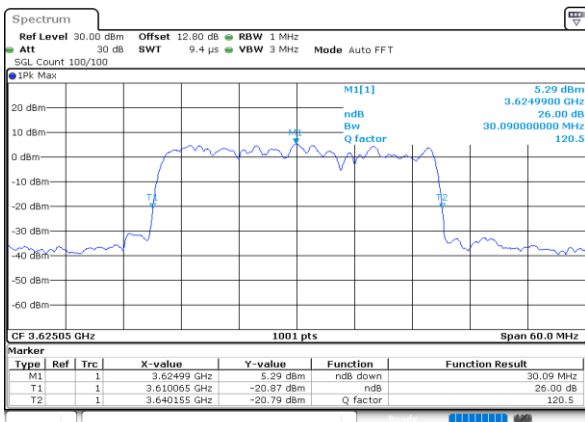
Date: 9.NOV.2022 15:28:25

Middle Channel / 20MHz+5MHz



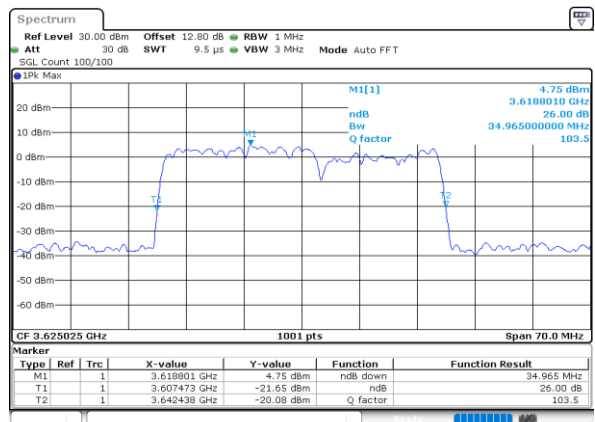
Date: 9.NOV.2022 15:33:40

Middle Channel / 20MHz+10MHz



Date: 9.NOV.2022 15:38:54

Middle Channel / 20MHz+15MHz



Date: 9.NOV.2022 15:44:08

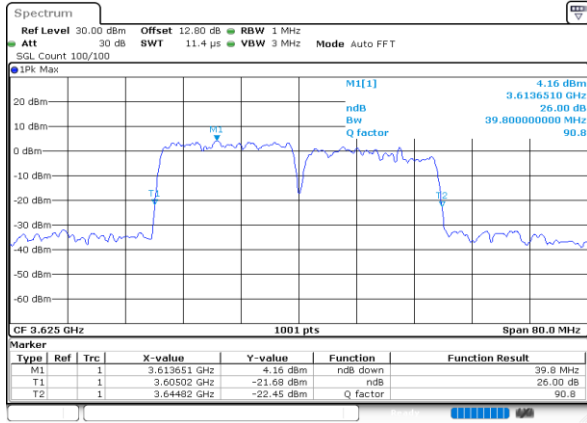


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A

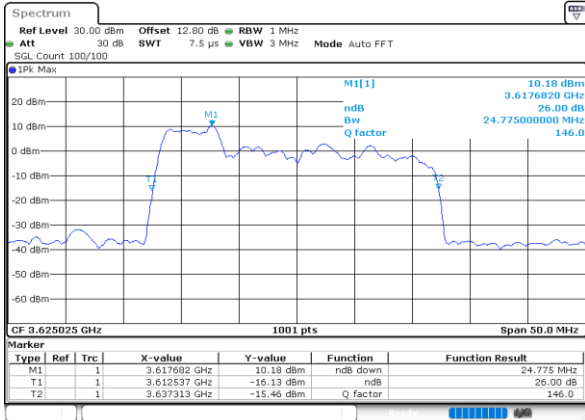




LTE Band 48C

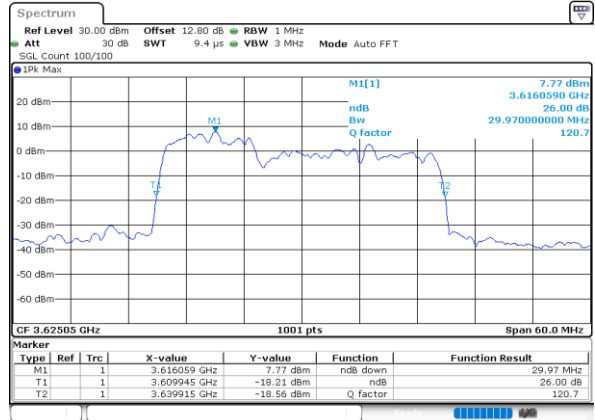
64QAM

Middle Channel / 5MHz+20MHz



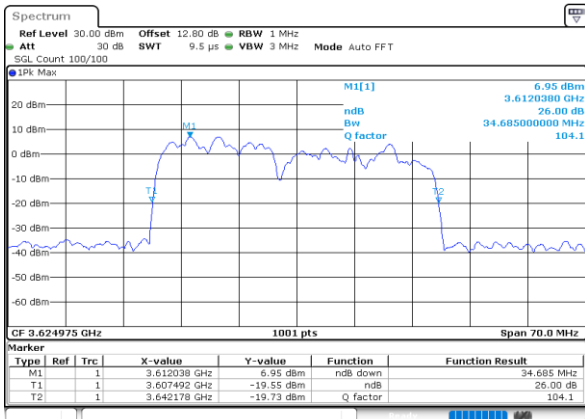
Date: 9.NOV.2022 15:18:31

Middle Channel / 10MHz+20MHz



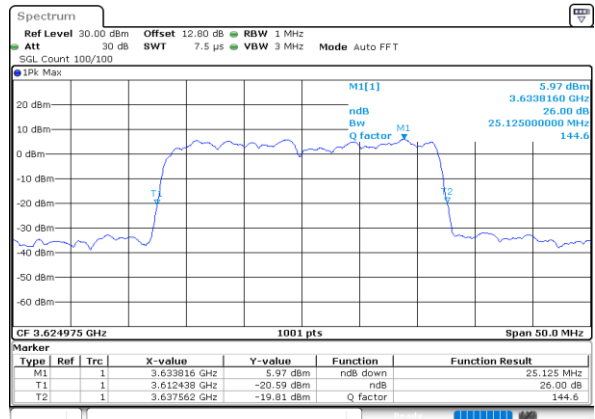
Date: 9.NOV.2022 15:23:47

Middle Channel / 15MHz+20MHz



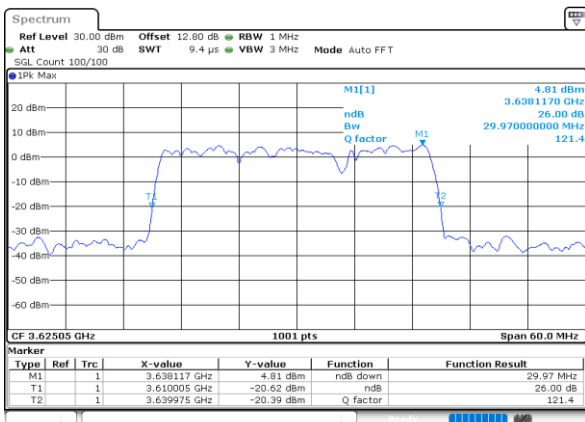
Date: 9.NOV.2022 15:29:03

Middle Channel / 20MHz+5MHz



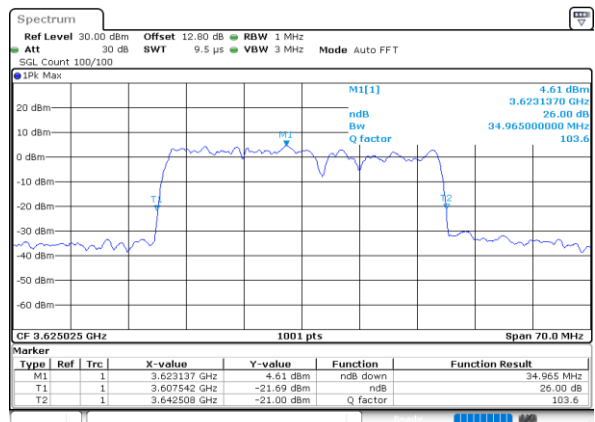
Date: 9.NOV.2022 15:34:18

Middle Channel / 20MHz+10MHz



Date: 9.NOV.2022 15:39:33

Middle Channel / 20MHz+15MHz



Date: 9.NOV.2022 15:44:46

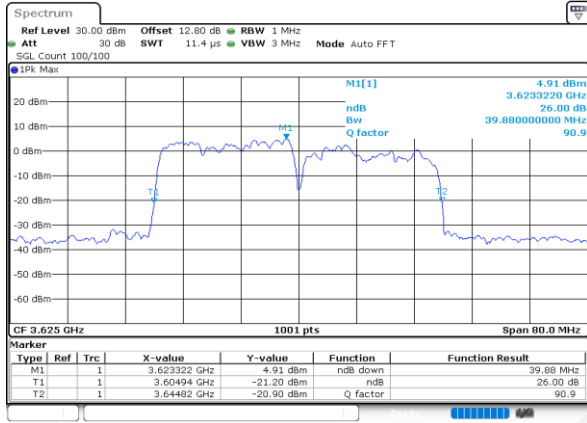


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A

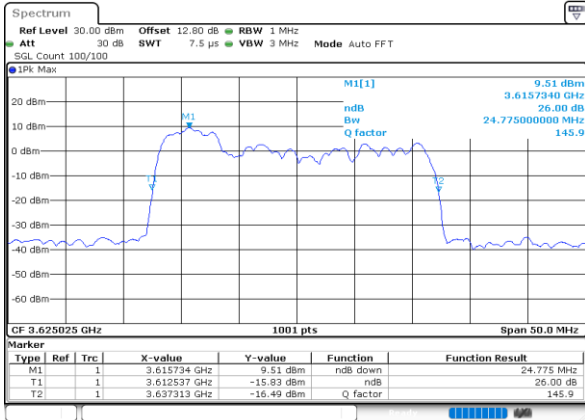




LTE Band 48C

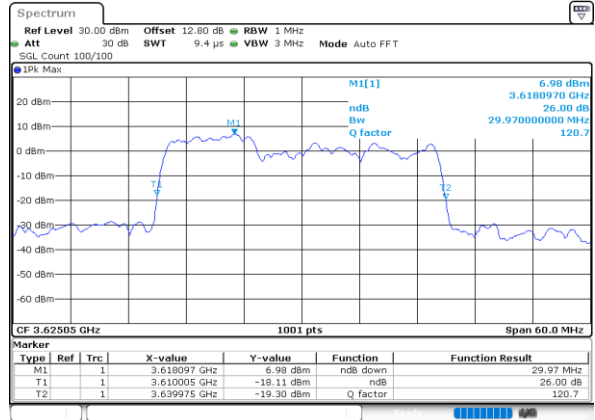
256QAM

Middle Channel / 5MHz+20MHz



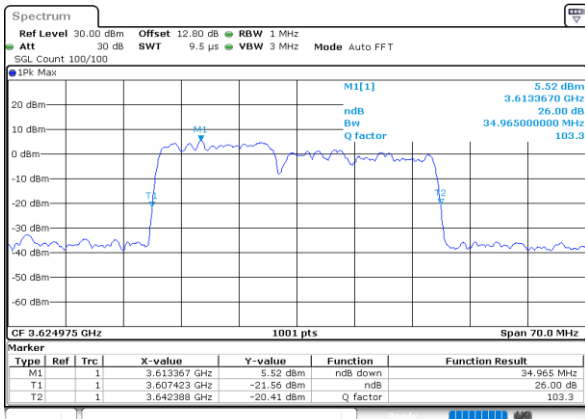
Date: 9.NOV.2022 15:19:09

Middle Channel / 10MHz+20MHz



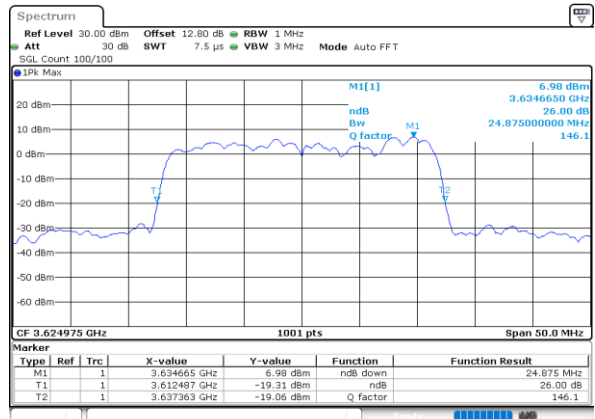
Date: 9.NOV.2022 15:24:25

Middle Channel / 15MHz+20MHz



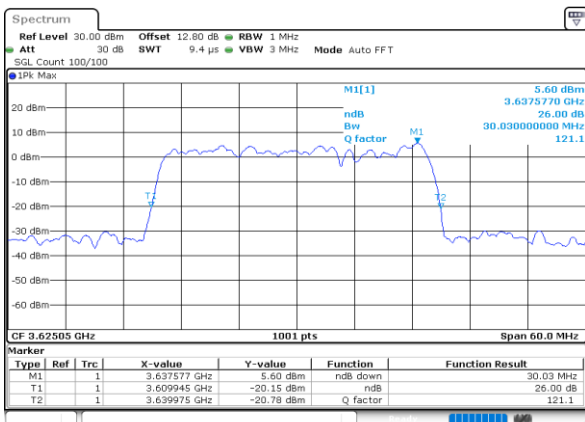
Date: 9.NOV.2022 15:29:41

Middle Channel / 20MHz+5MHz



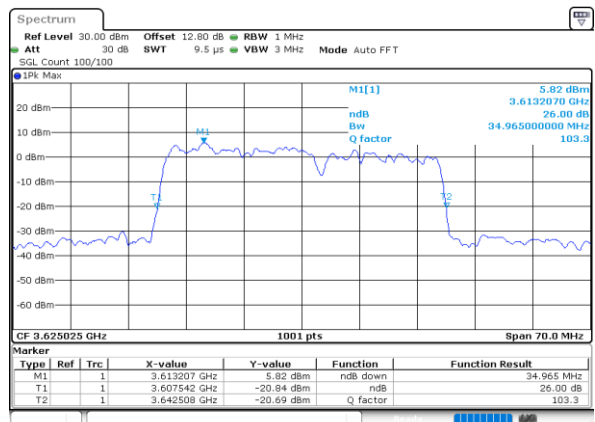
Date: 9.NOV.2022 15:34:57

Middle Channel / 20MHz+10MHz

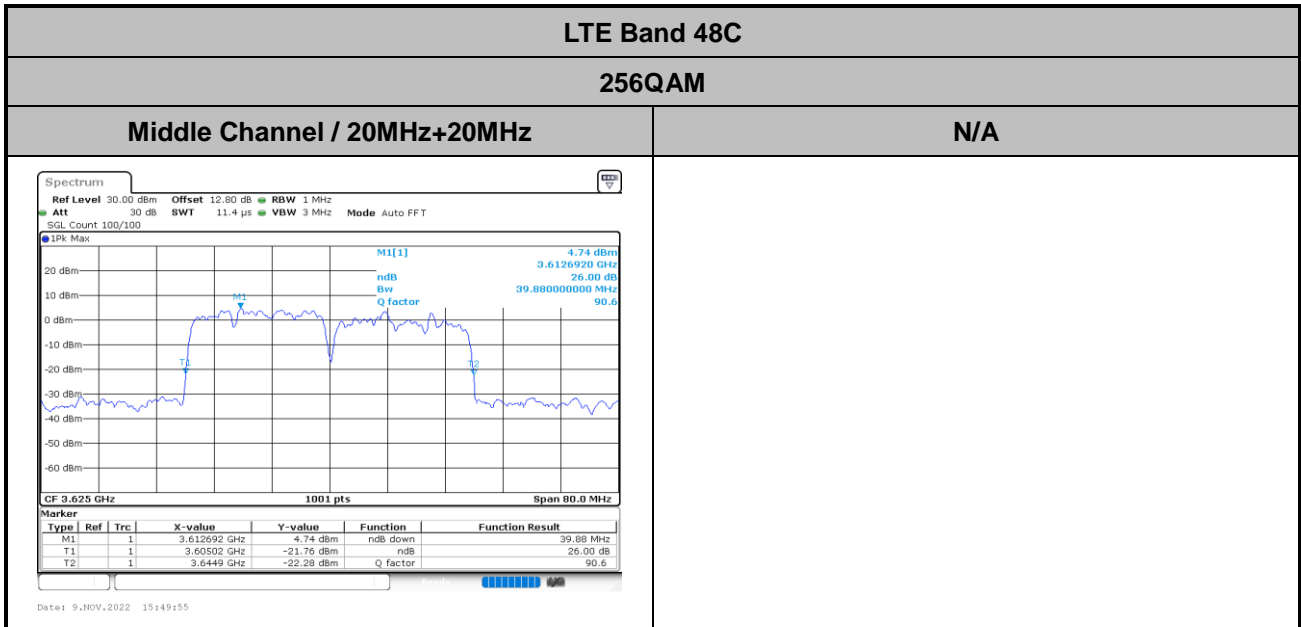


Date: 9.NOV.2022 15:40:11

Middle Channel / 20MHz+15MHz



Date: 9.NOV.2022 15:45:25





Occupied Bandwidth

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.43	28.05	33.01	23.38
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.99	32.59	37.72	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	22.78	27.99	32.73	23.18
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.17	32.87	37.80	-

Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.08	27.75	32.59	23.43
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.99	32.73	37.40	-

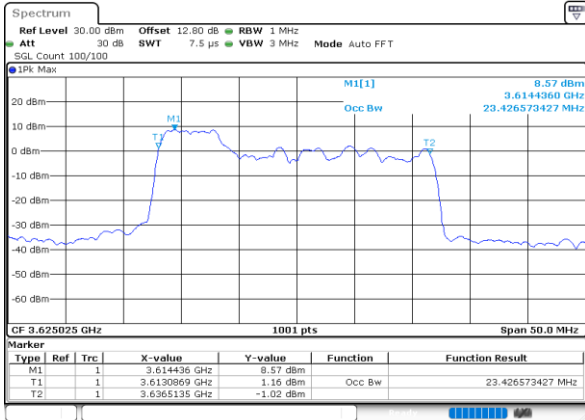
Mode	LTE Band 48C : 99%OBW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.18	27.93	32.94	23.33
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.99	32.45	37.48	-



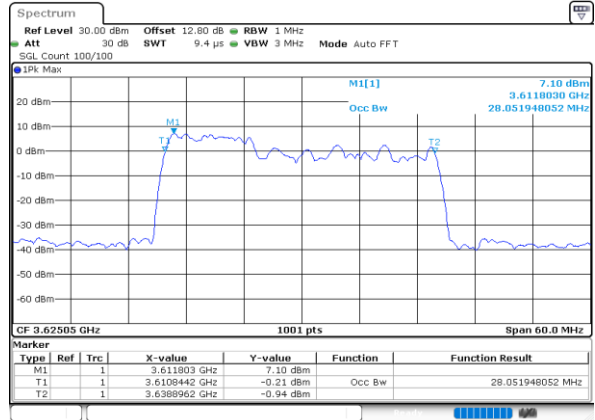
LTE Band 48C

QPSK

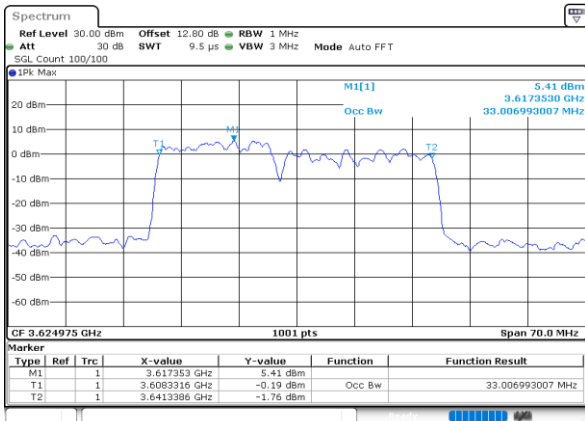
Middle Channel / 5MHz+20MHz



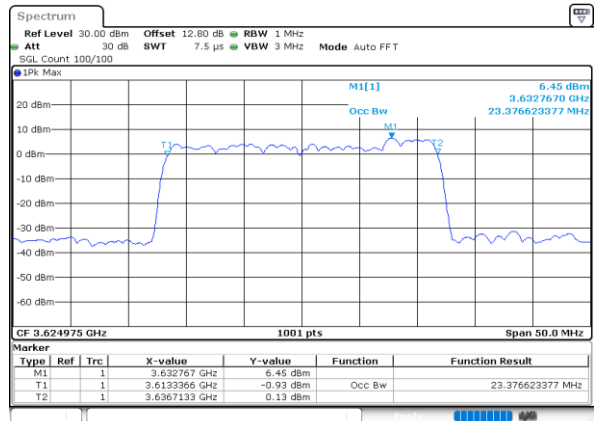
Middle Channel / 10MHz+20MHz



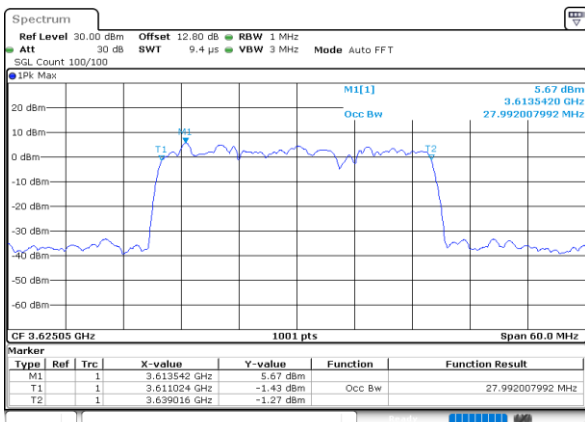
Middle Channel / 15MHz+20MHz



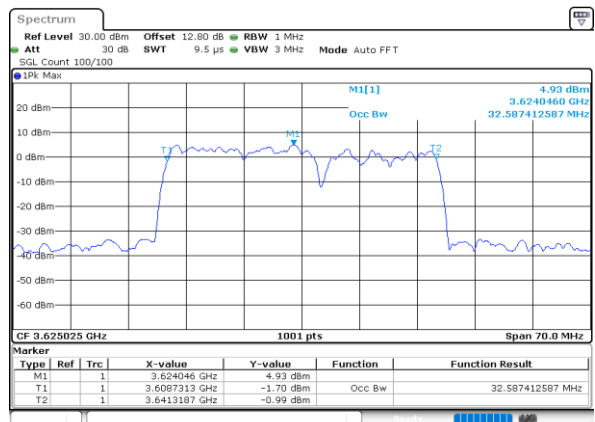
Middle Channel / 20MHz+5MHz

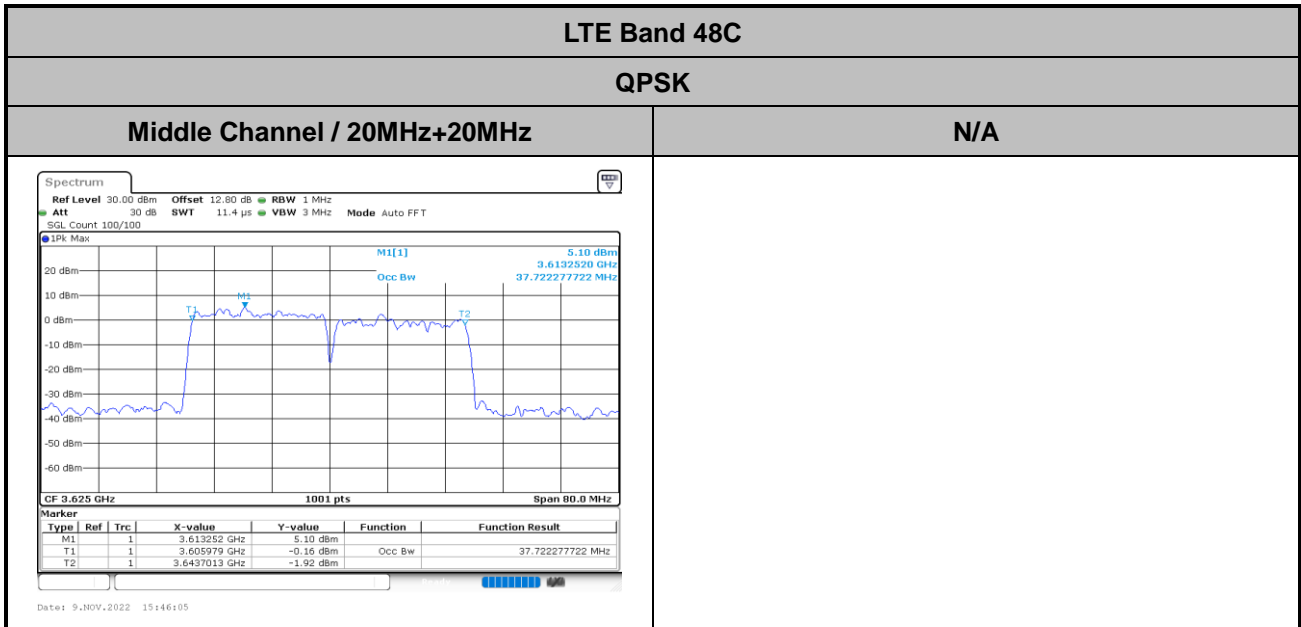


Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



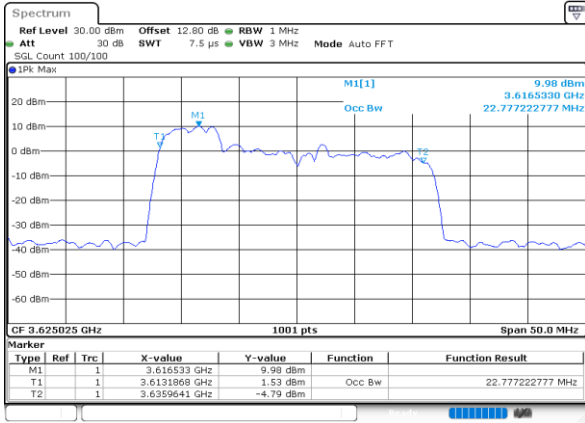




LTE Band 48C

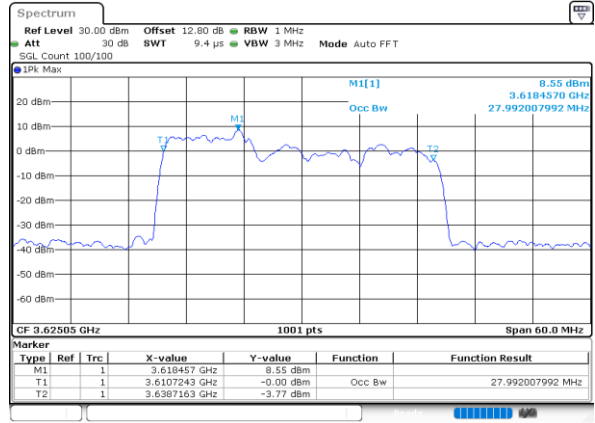
16QAM

Middle Channel / 5MHz+20MHz



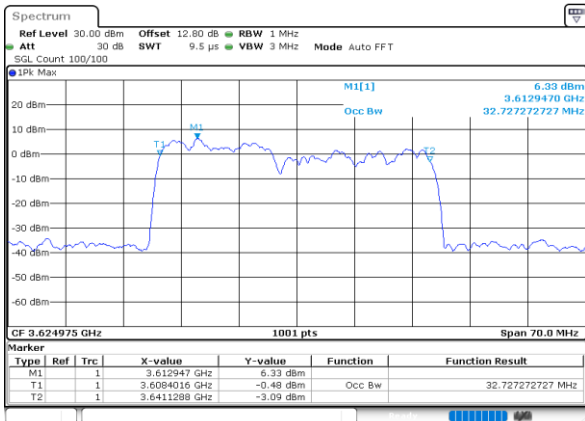
Date: 9.NOV.2022 15:15:19

Middle Channel / 10MHz+20MHz



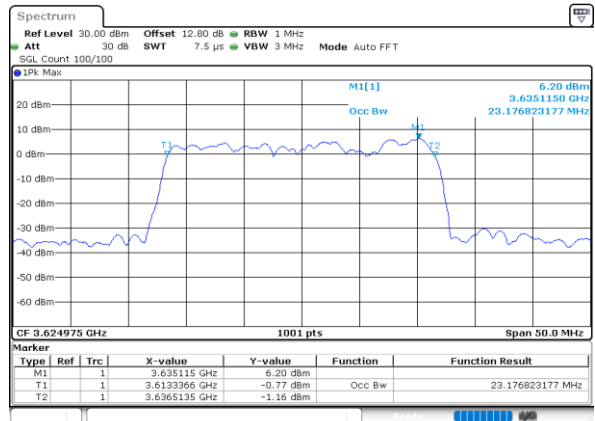
Date: 9.NOV.2022 15:20:36

Middle Channel / 15MHz+20MHz



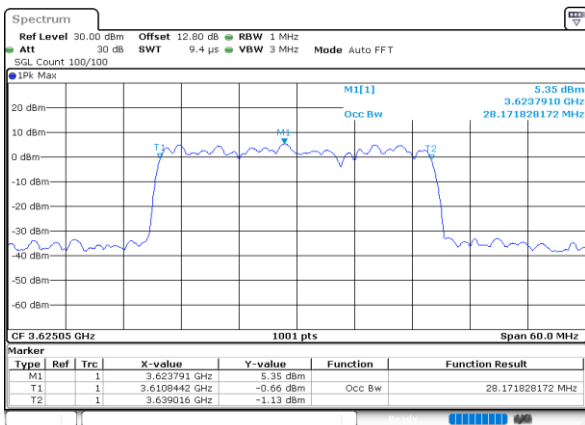
Date: 9.NOV.2022 15:25:51

Middle Channel / 20MHz+5MHz



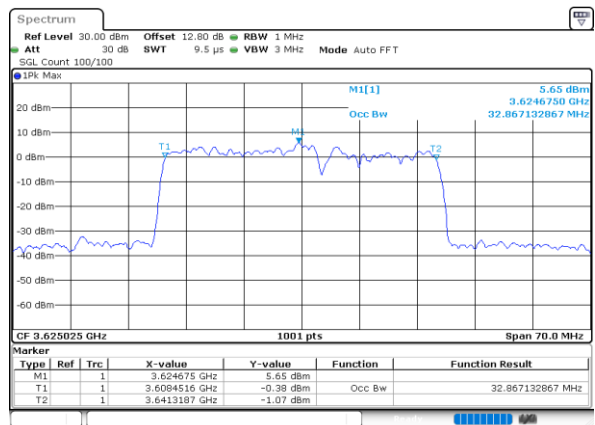
Date: 9.NOV.2022 15:31:07

Middle Channel / 20MHz+10MHz



Date: 9.NOV.2022 15:36:21

Middle Channel / 20MHz+15MHz



Date: 9.NOV.2022 15:41:35

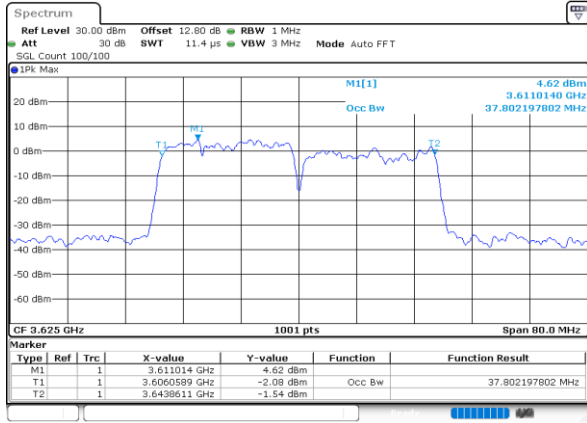


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A

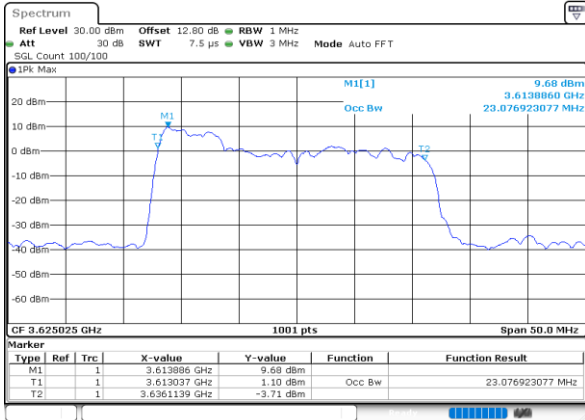




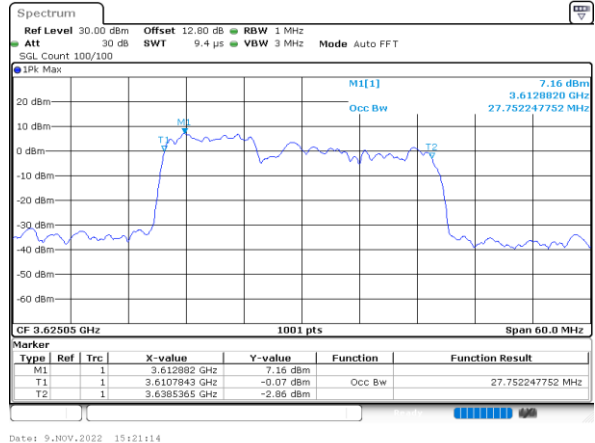
LTE Band 48C

64QAM

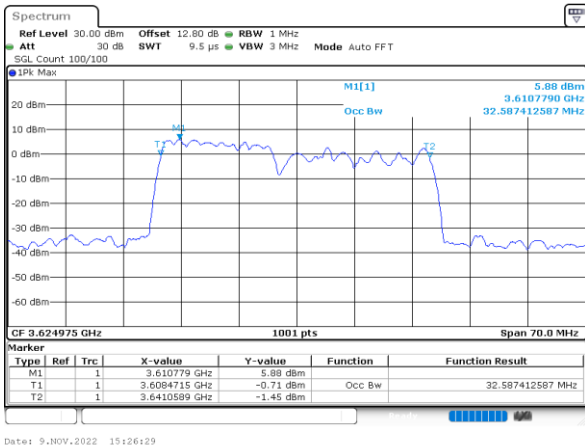
Middle Channel / 5MHz+20MHz



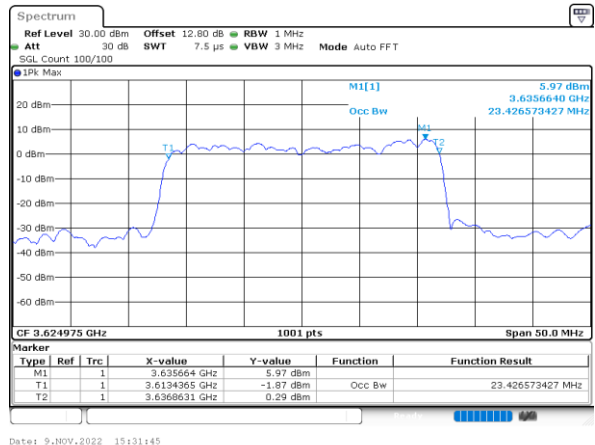
Middle Channel / 10MHz+20MHz



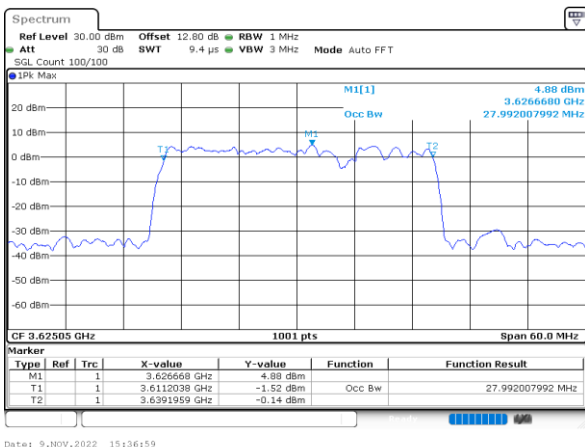
Middle Channel / 15MHz+20MHz



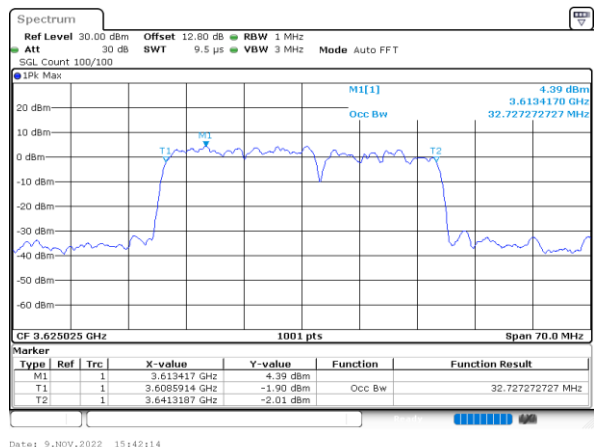
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



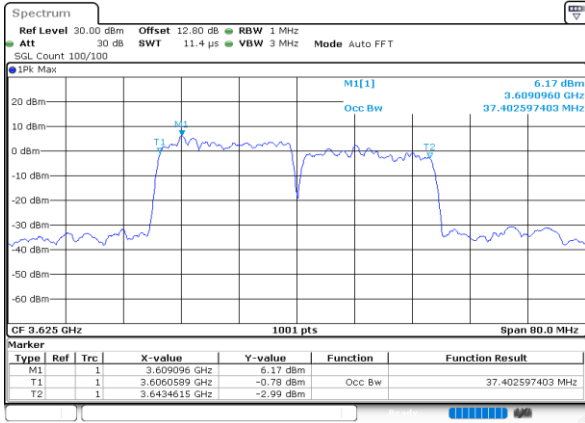


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A

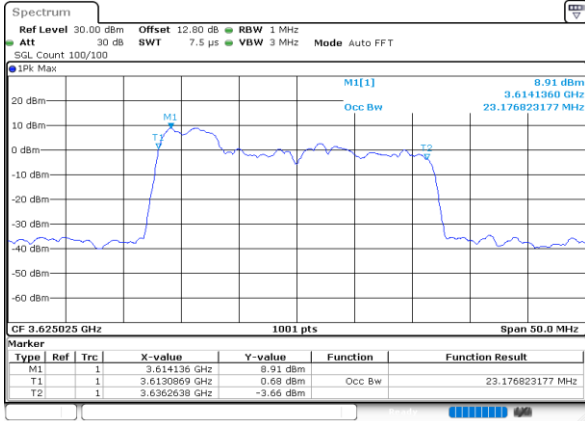




LTE Band 48C

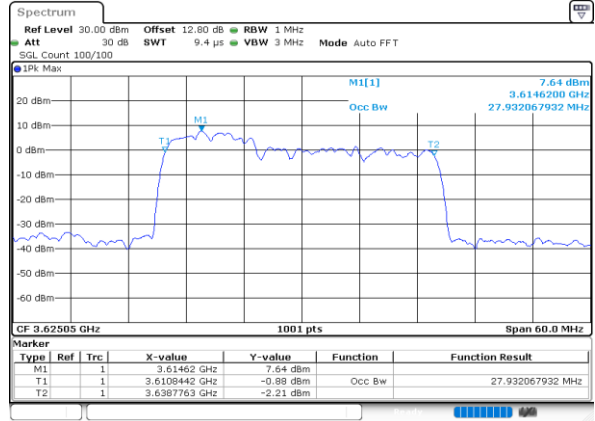
256QAM

Middle Channel / 5MHz+20MHz



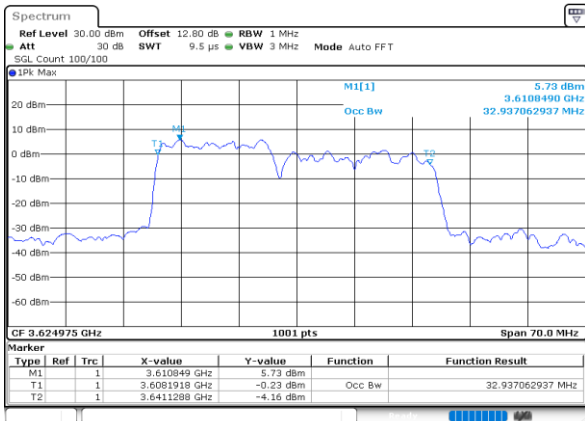
Date: 9.NOV.2022 15:16:36

Middle Channel / 10MHz+20MHz



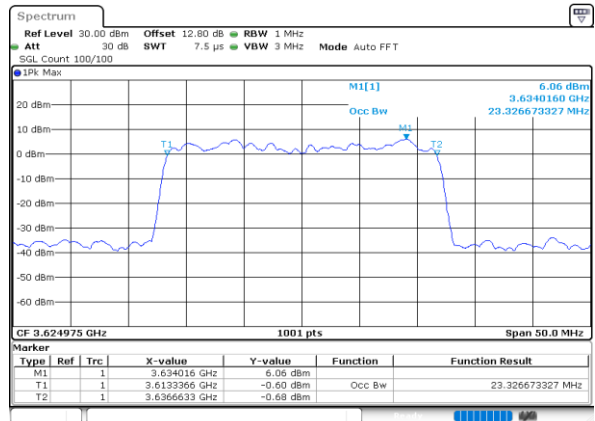
Date: 9.NOV.2022 15:21:52

Middle Channel / 15MHz+20MHz



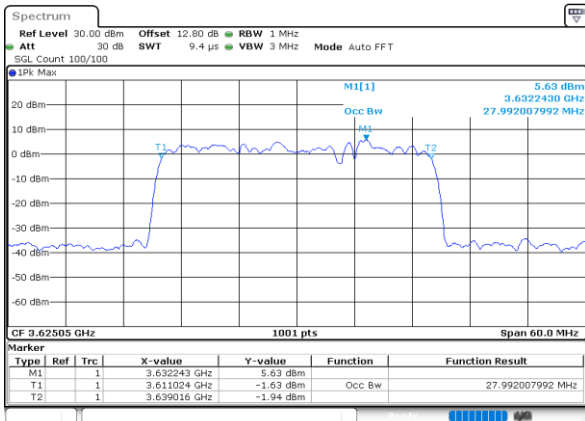
Date: 9.NOV.2022 15:27:08

Middle Channel / 20MHz+5MHz



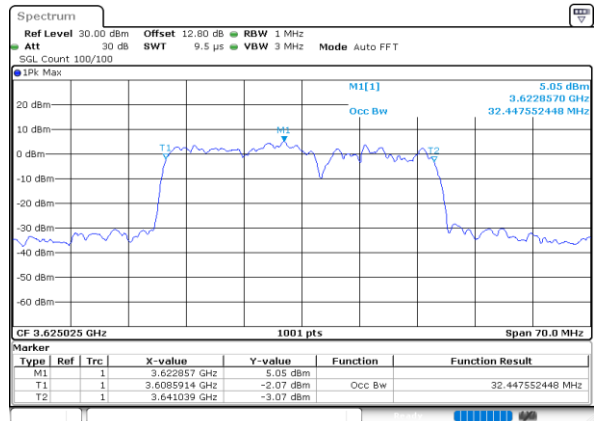
Date: 9.NOV.2022 15:32:24

Middle Channel / 20MHz+10MHz

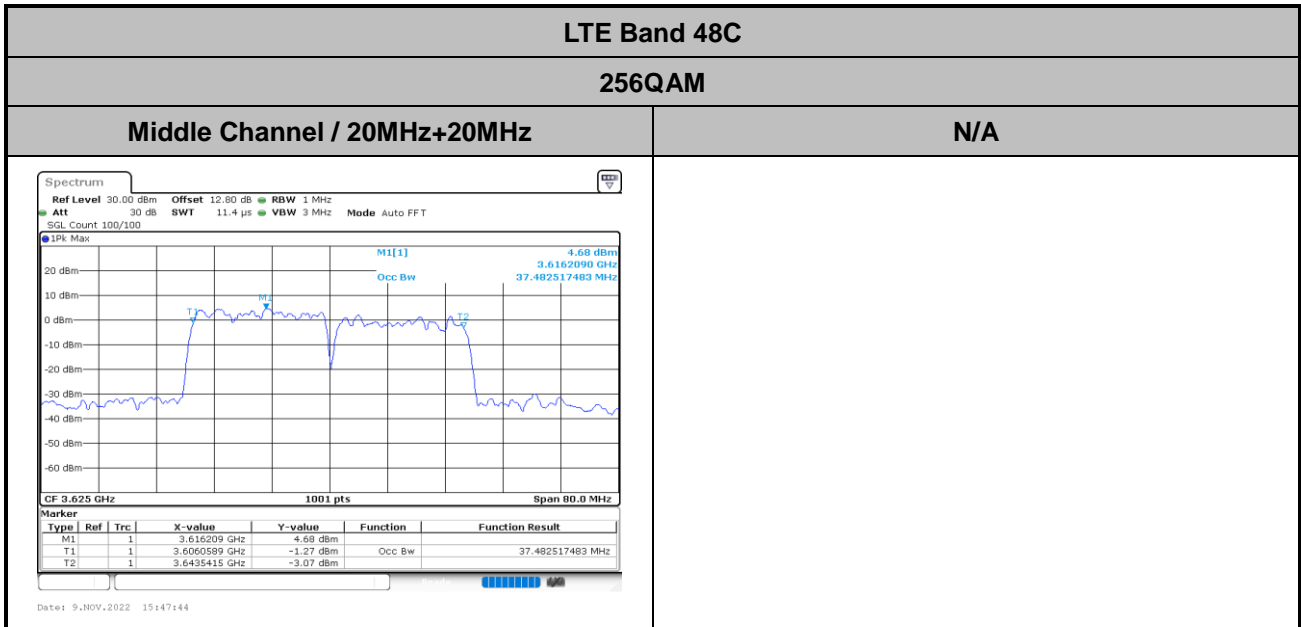


Date: 9.NOV.2022 15:37:38

Middle Channel / 20MHz+15MHz

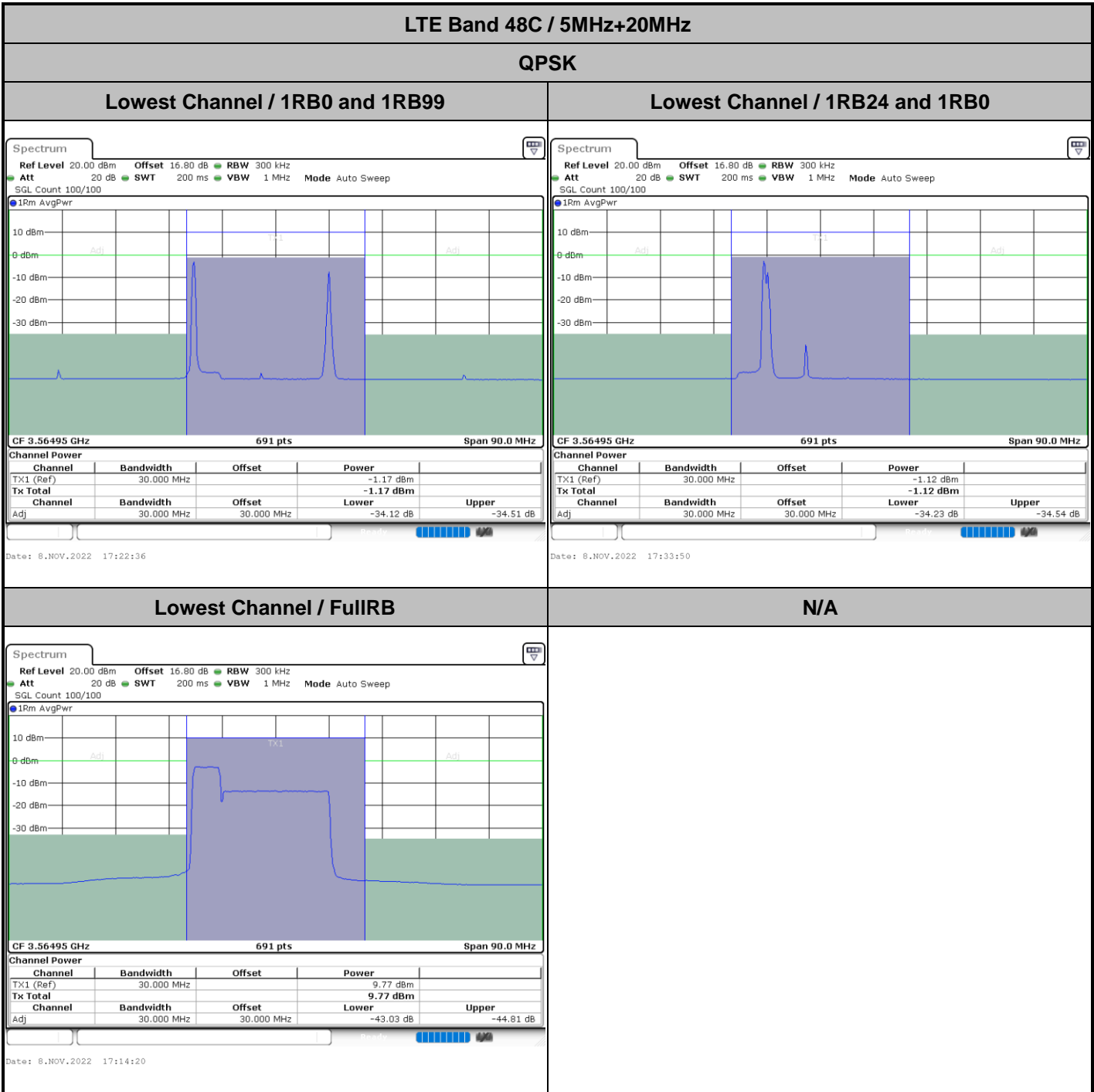


Date: 9.NOV.2022 15:42:52





ACLR



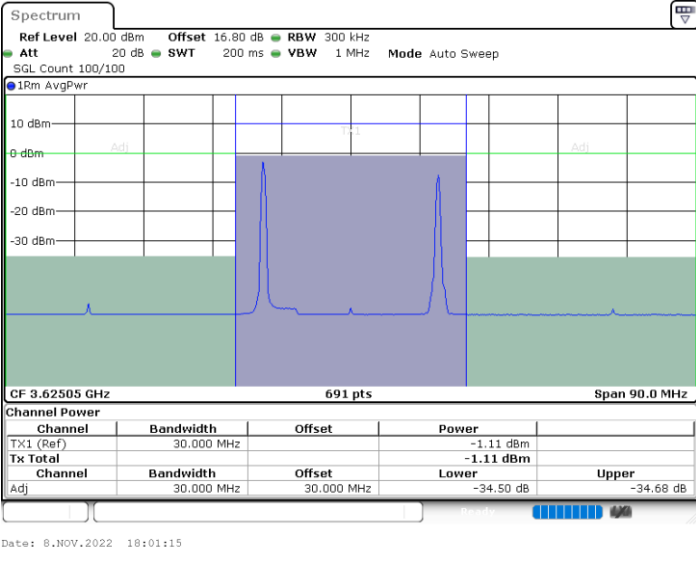


LTE Band 48C / 5MHz+20MHz

QPSK

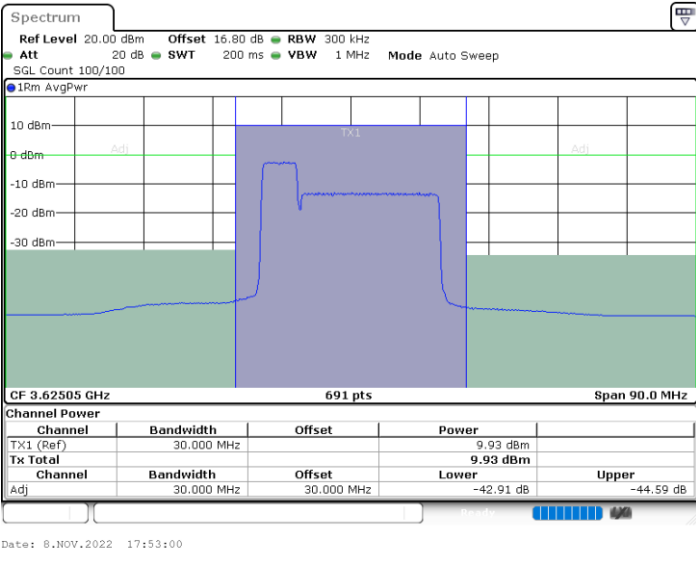
Middle Channel / 1RB0 and 1RB9

Middle Channel / 1RB24 and 1RB0



Middle Channel / FullIRB

N/A



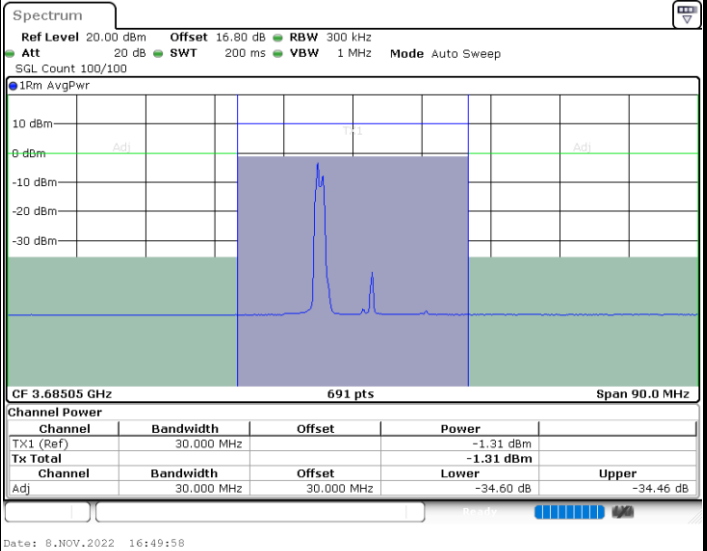
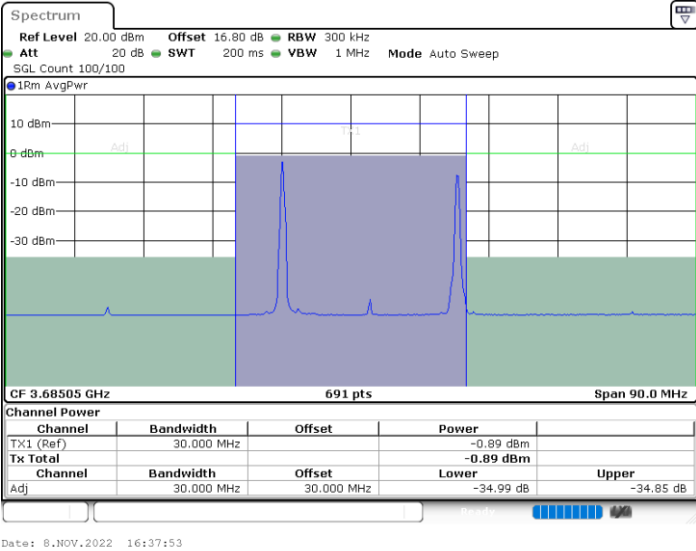


LTE Band 48C / 5MHz+20MHz

QPSK

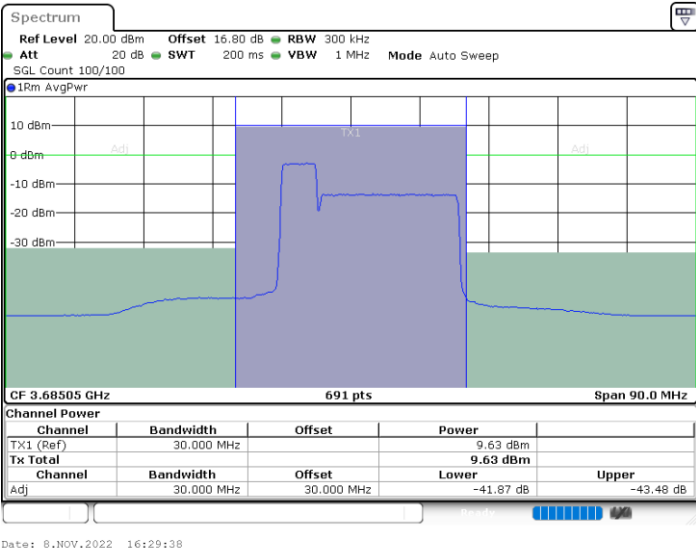
Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB24 and 1RB0



Highest Channel / FullIRB

N/A



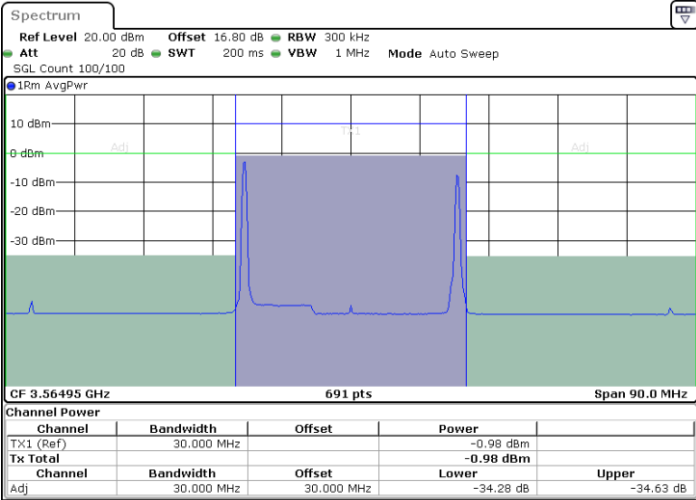


LTE Band 48C / 10MHz+20MHz

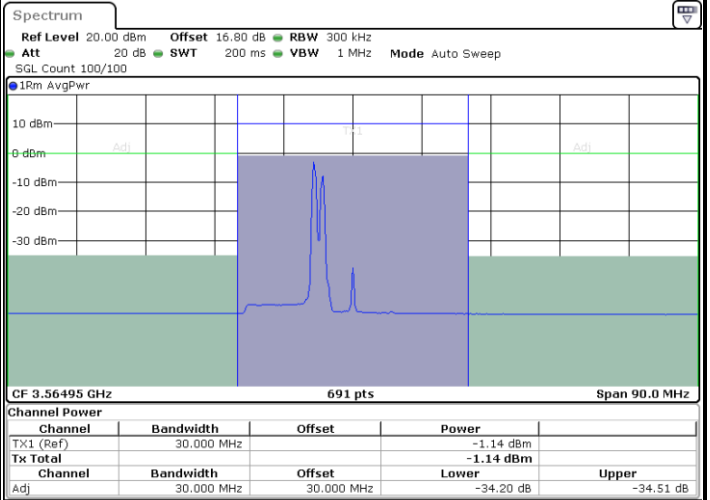
QPSK

Lowest Channel / 1RB0 and 1RB9

Lowest Channel / 1RB49 and 1RB0



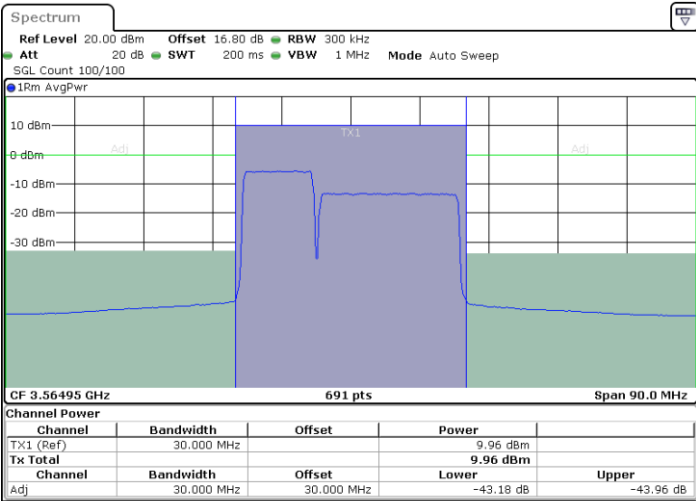
Date: 8.NOV.2022 18:39:57



Date: 8.NOV.2022 18:50:19

Lowest Channel / FullIRB

N/A



Date: 8.NOV.2022 18:31:41

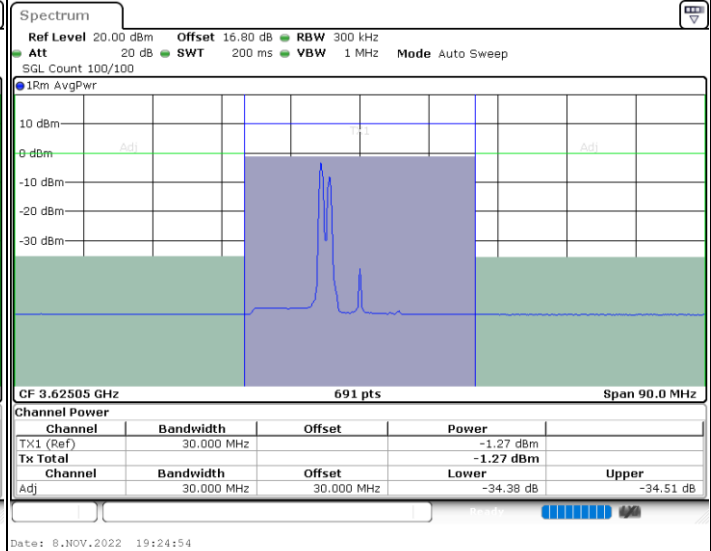
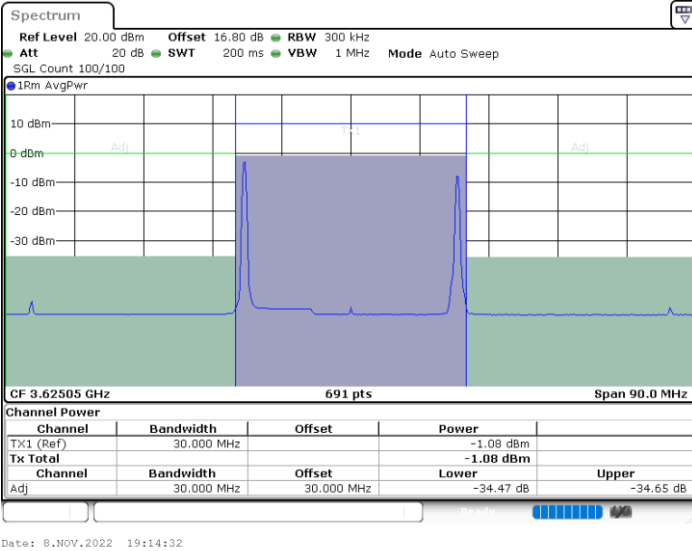


LTE Band 48C / 10MHz+20MHz

QPSK

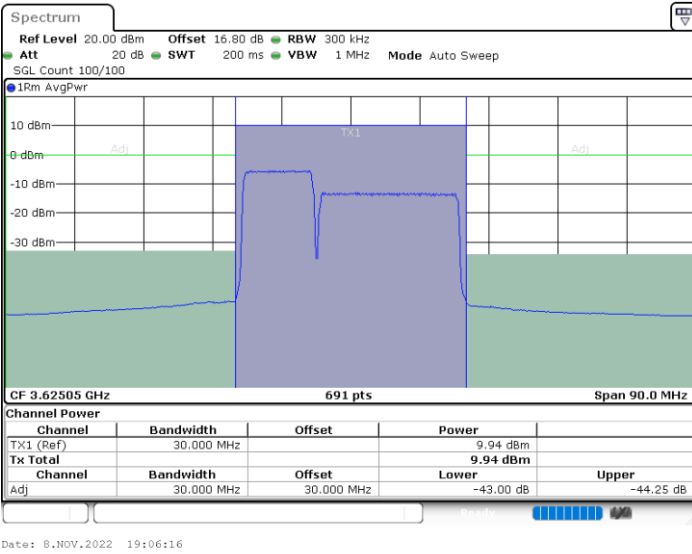
Middle Channel / 1RB0 and 1RB9

Middle Channel / 1RB49 and 1RB0



Middle Channel / FullIRB

N/A



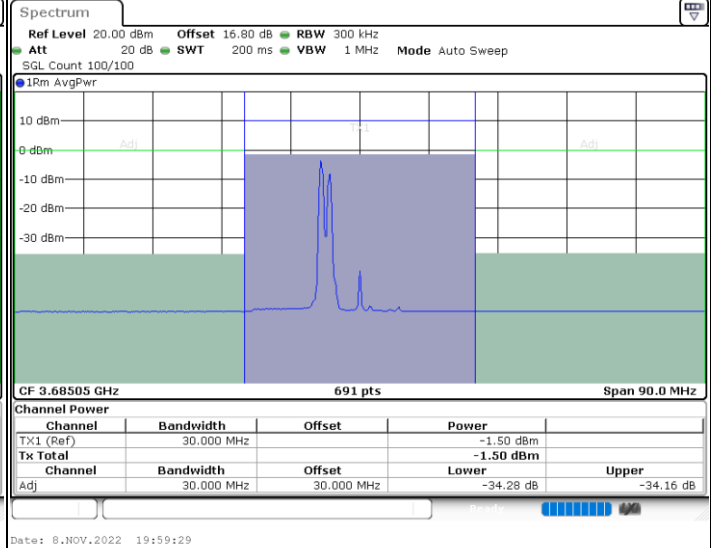
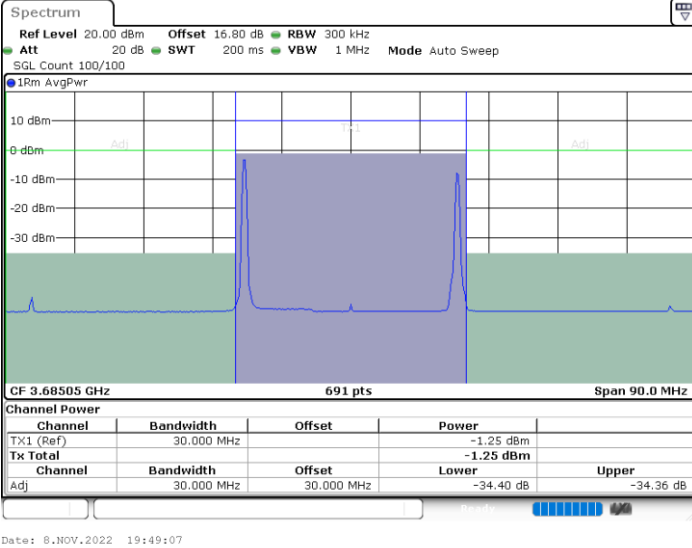


LTE Band 48C / 10MHz+20MHz

QPSK

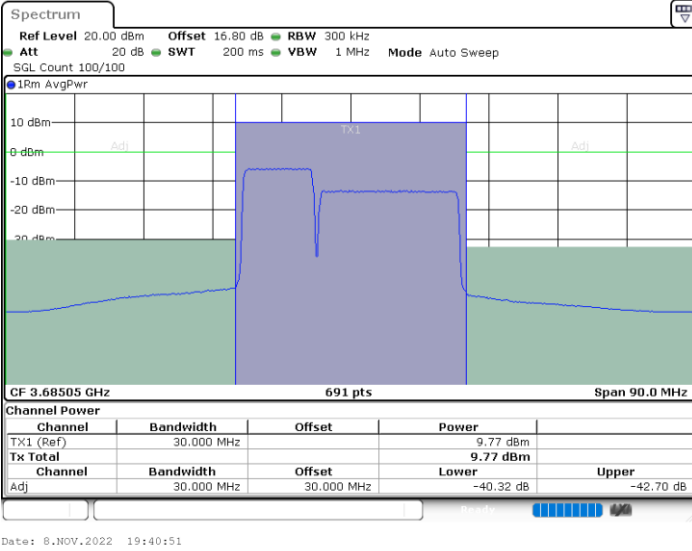
Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB49 and 1RB0



Highest Channel / FullIRB

N/A



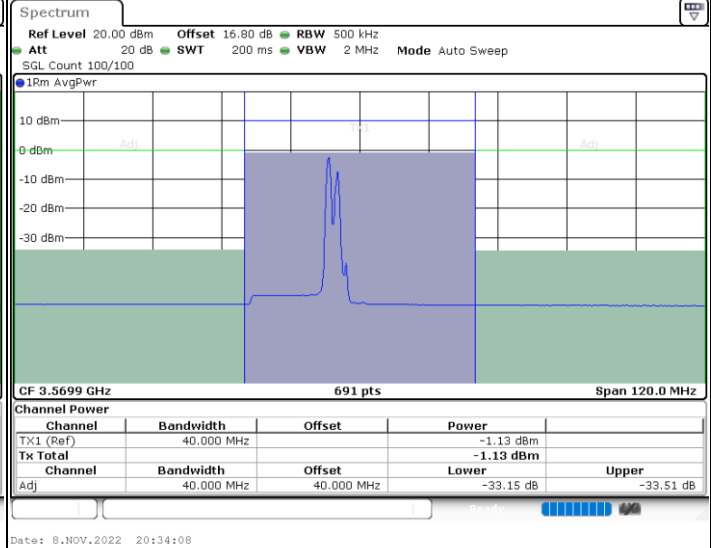


LTE Band 48C / 15MHz+20MHz

QPSK

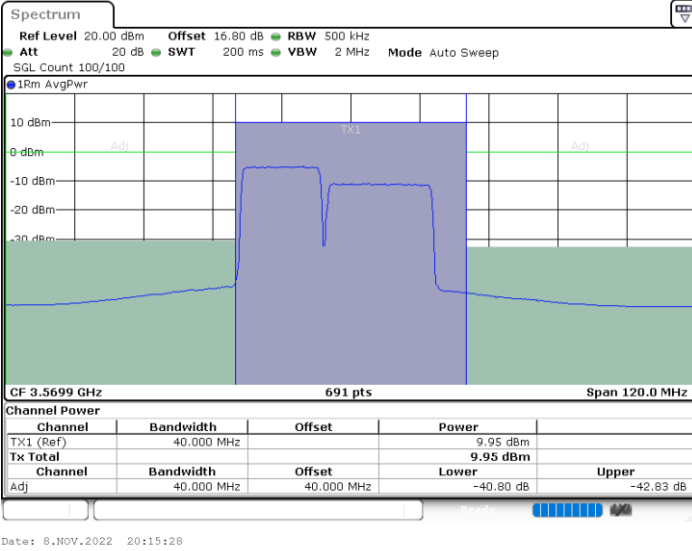
Lowest Channel / 1RB0 and 1RB9

Lowest Channel / 1RB74 and 1RB0



Lowest Channel / FullIRB

N/A



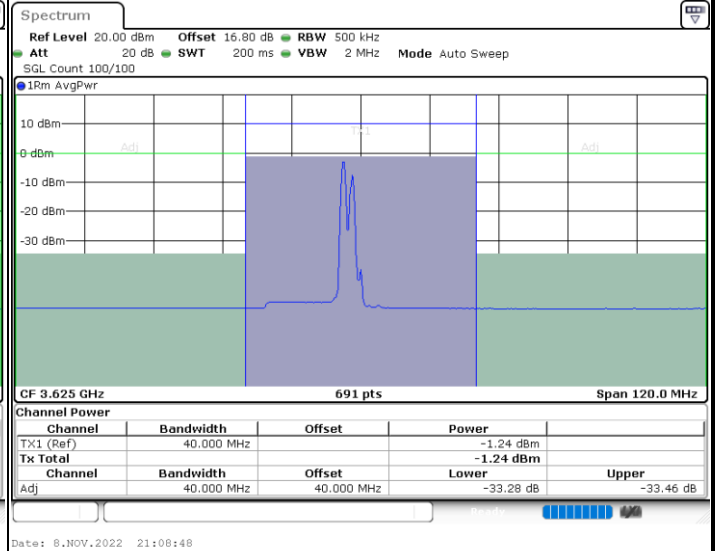
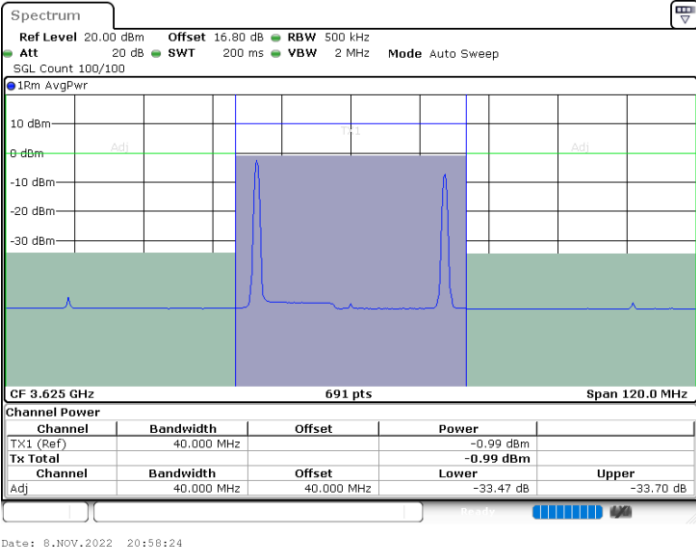


LTE Band 48C / 15MHz+20MHz

QPSK

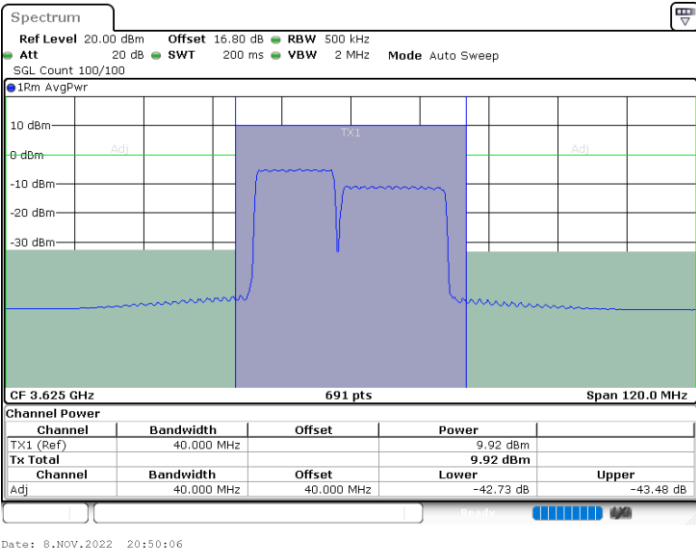
Middle Channel / 1RB0 and 1RB9

Middle Channel / 1RB74 and 1RB0



Middle Channel / FullIRB

N/A



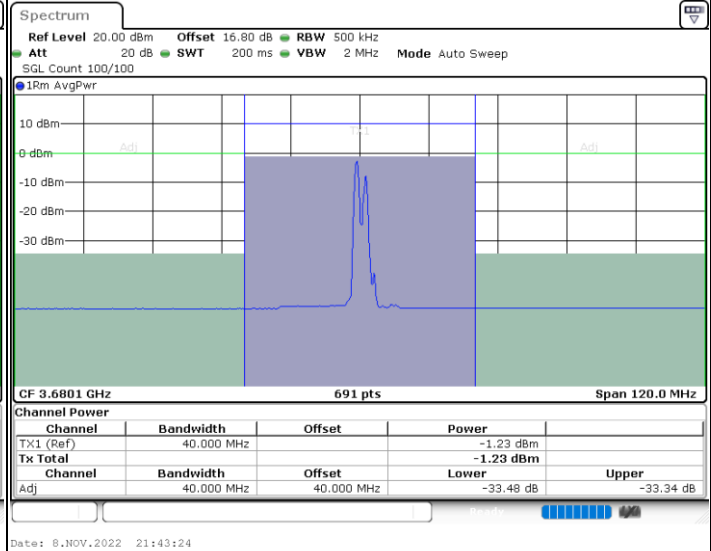
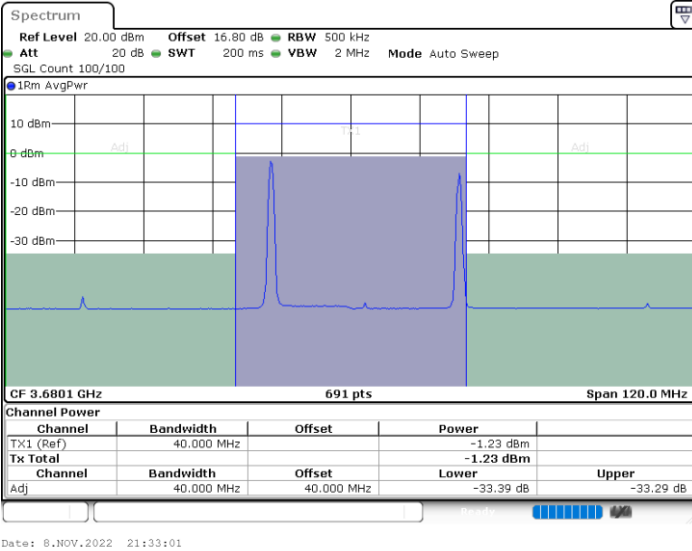


LTE Band 48C / 15MHz+20MHz

QPSK

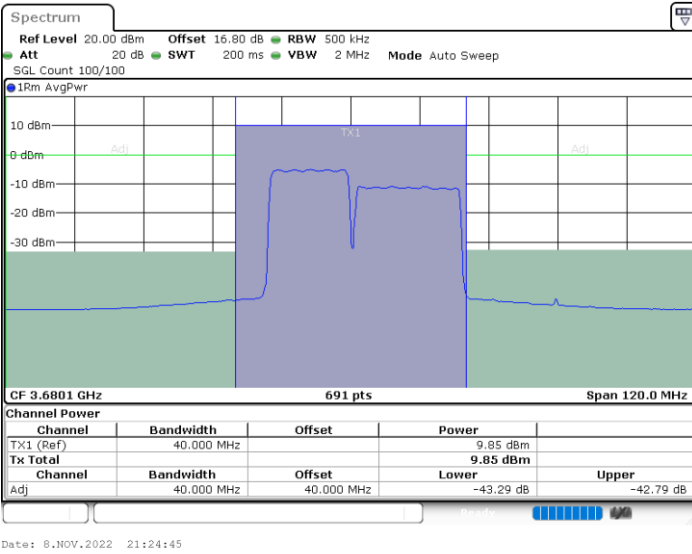
Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB74 and 1RB0



Highest Channel / FullIRB

N/A



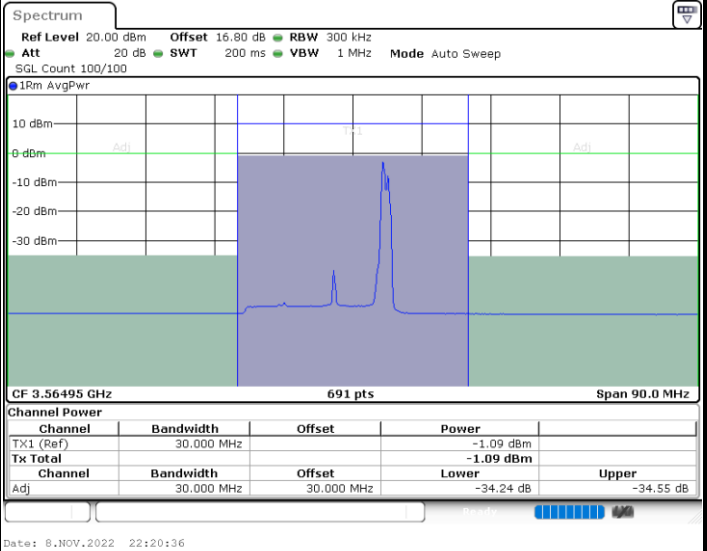
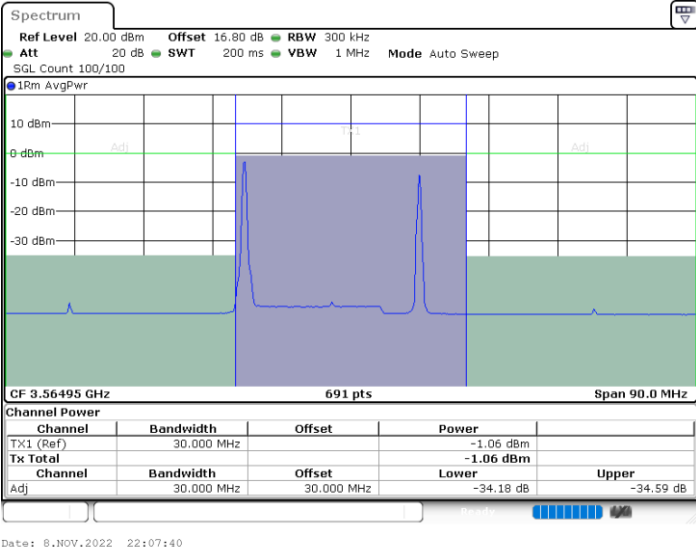


LTE Band 48C / 20MHz+5MHz

QPSK

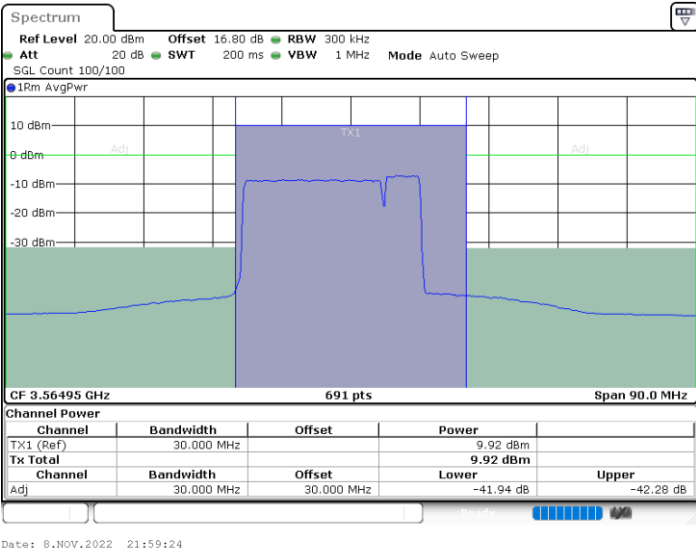
Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB99 and 1RB0



Lowest Channel / FullIRB

N/A



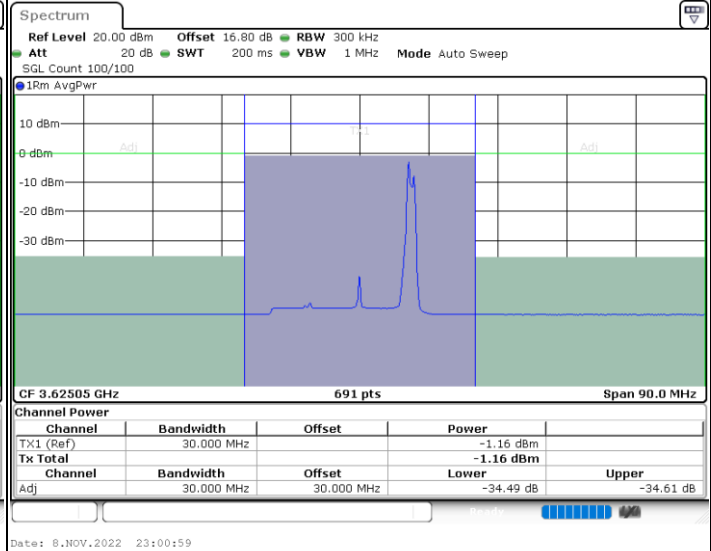
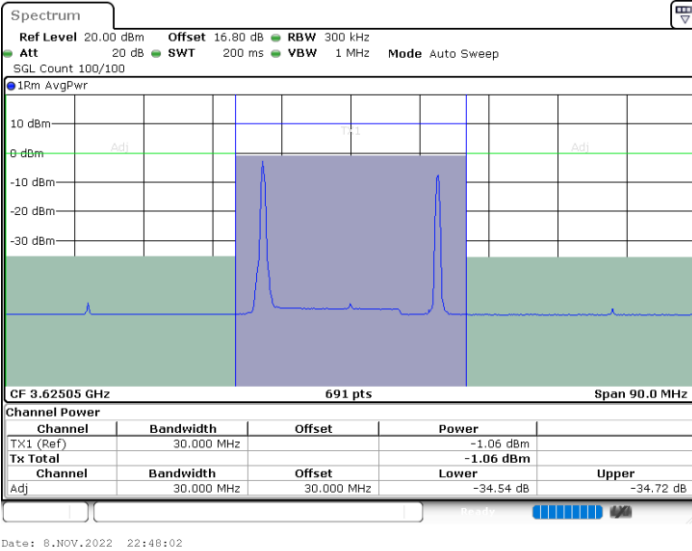


LTE Band 48C / 20MHz+5MHz

QPSK

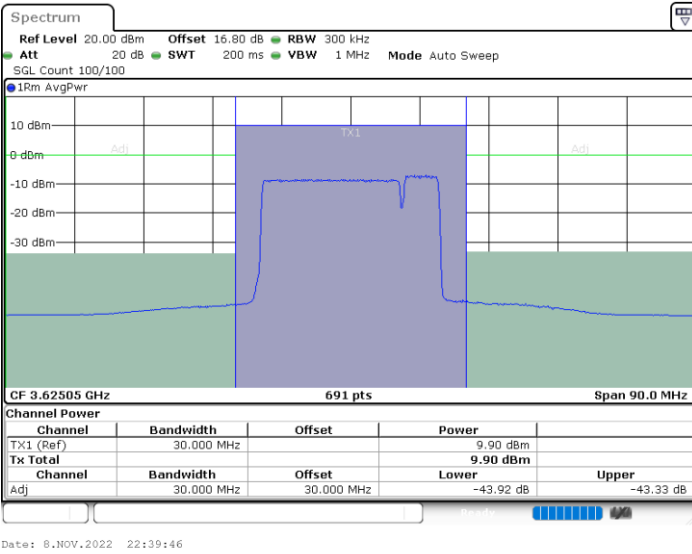
Middle Channel / 1RB0 and 1RB24

Middle Channel / 1RB99 and 1RB0



Middle Channel / FullIRB

N/A



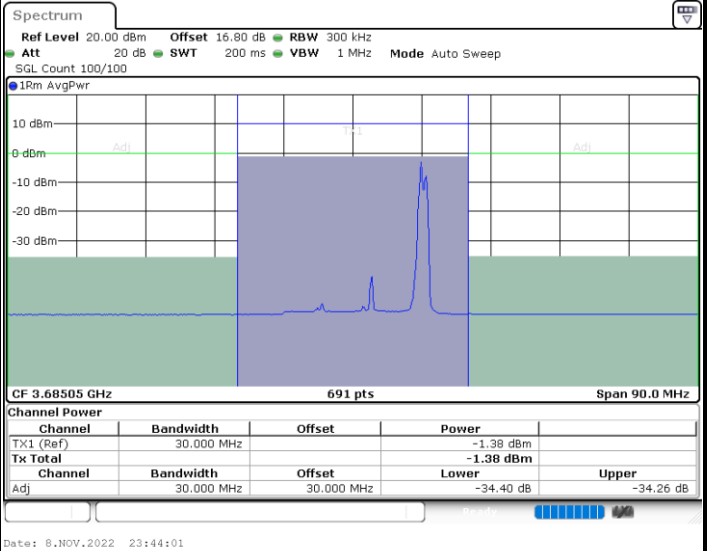
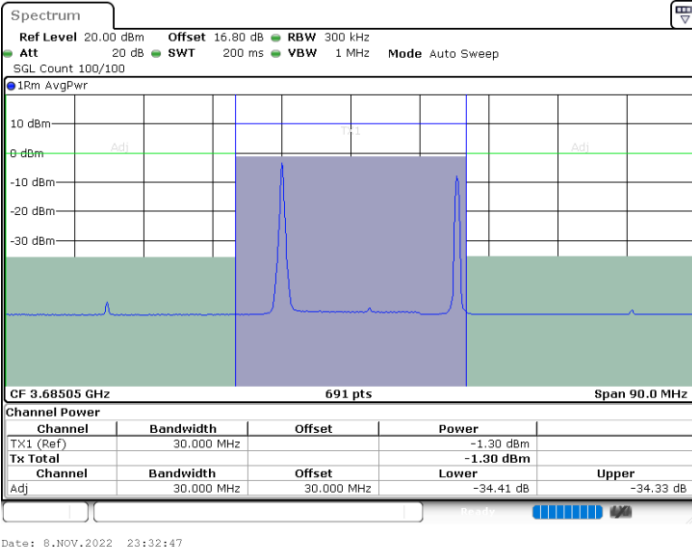


LTE Band 48C / 20MHz+5MHz

QPSK

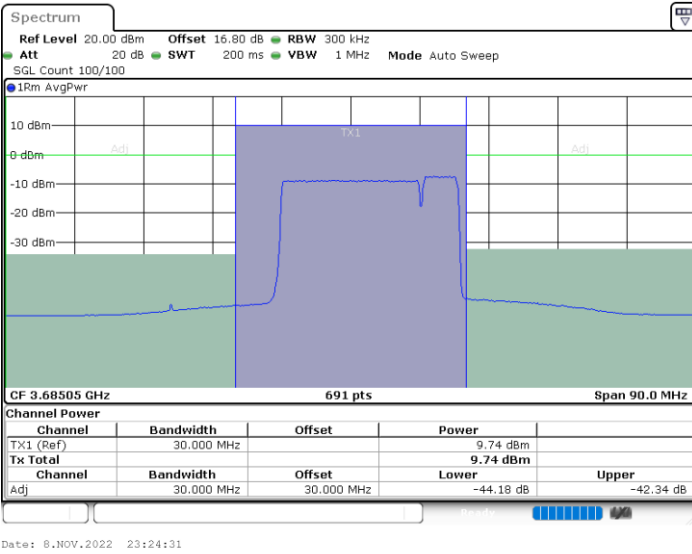
Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB99 and 1RB0



Highest Channel / FullIRB

N/A



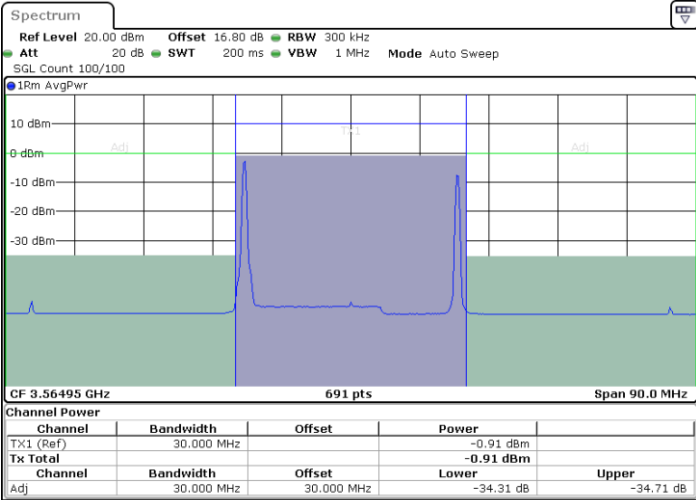


LTE Band 48C / 20MHz+10MHz

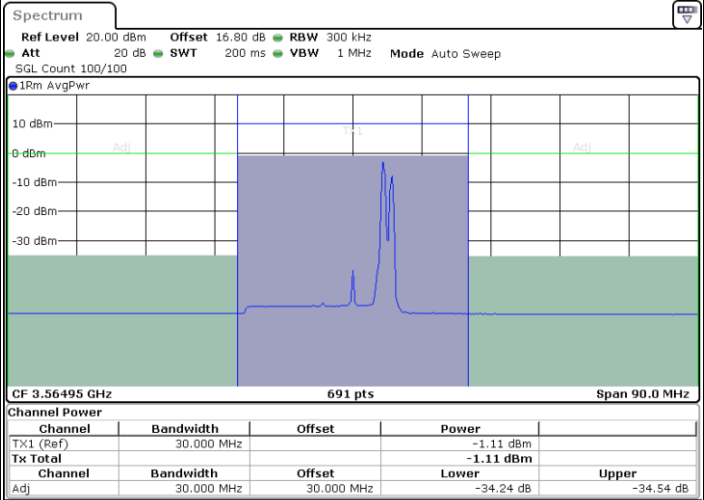
QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB99 and 1RB0



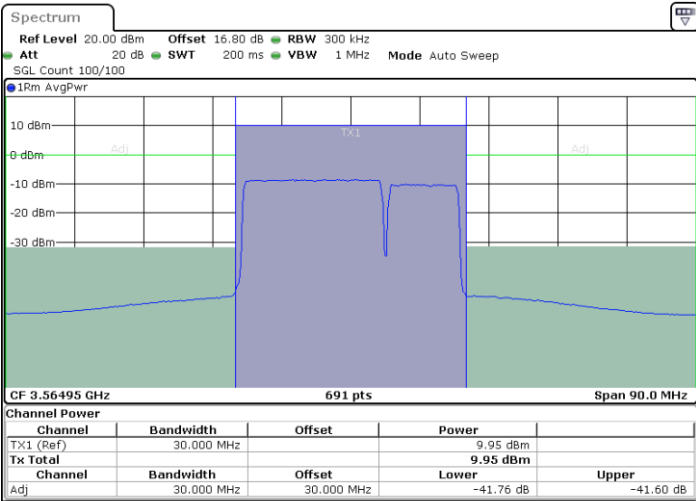
Date: 9.NOV.2022 00:15:34



Date: 9.NOV.2022 00:25:57

Lowest Channel / FullIRB

N/A



Date: 9.NOV.2022 00:07:17

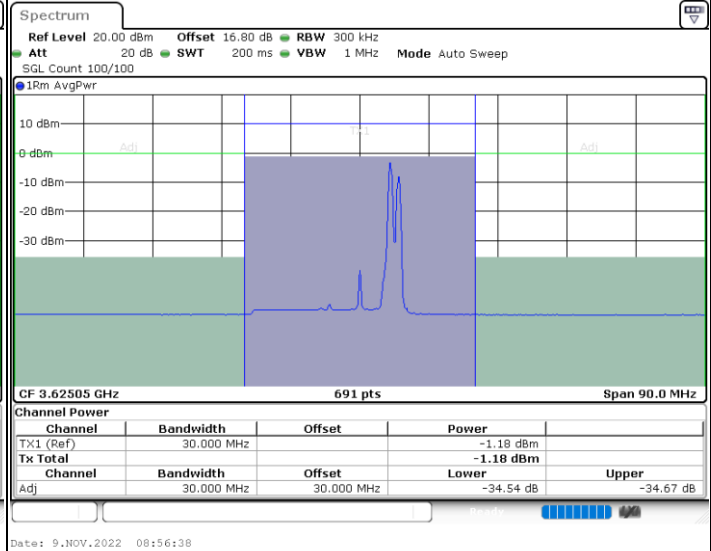
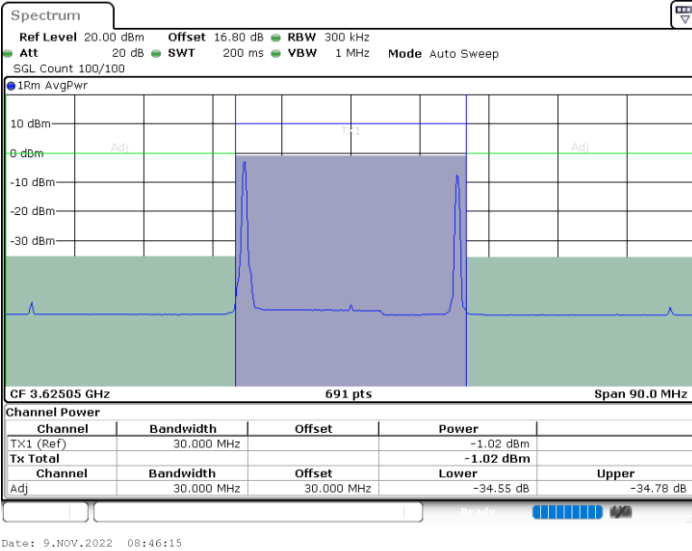


LTE Band 48C / 20MHz+10MHz

QPSK

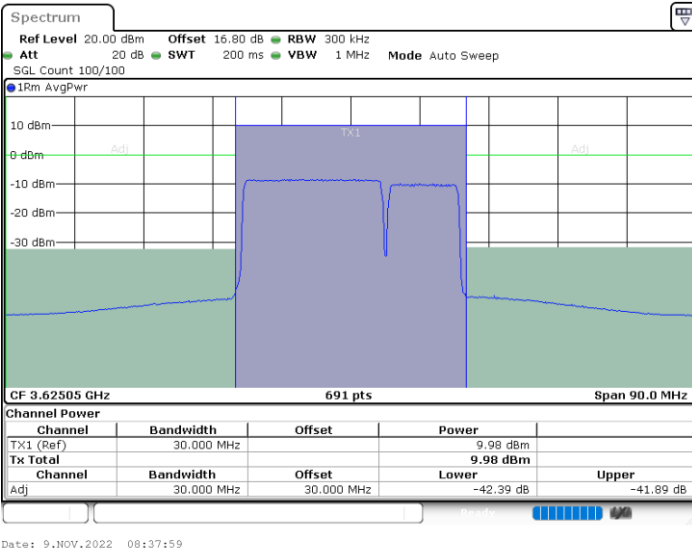
Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB99 and 1RB0



Middle Channel / FullIRB

N/A



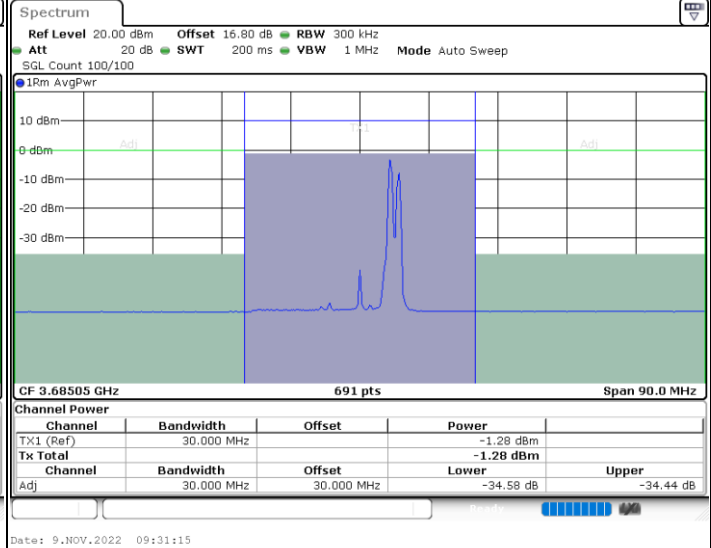
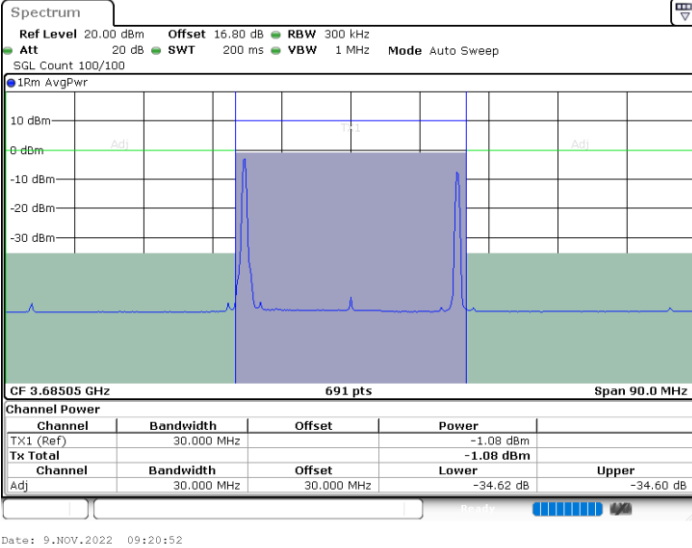


LTE Band 48C / 20MHz+10MHz

QPSK

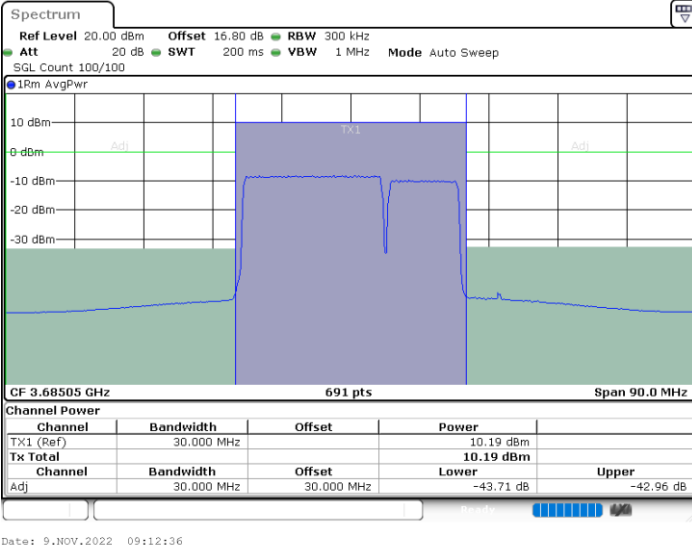
Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB99 and 1RB0



Highest Channel / FullIRB

N/A



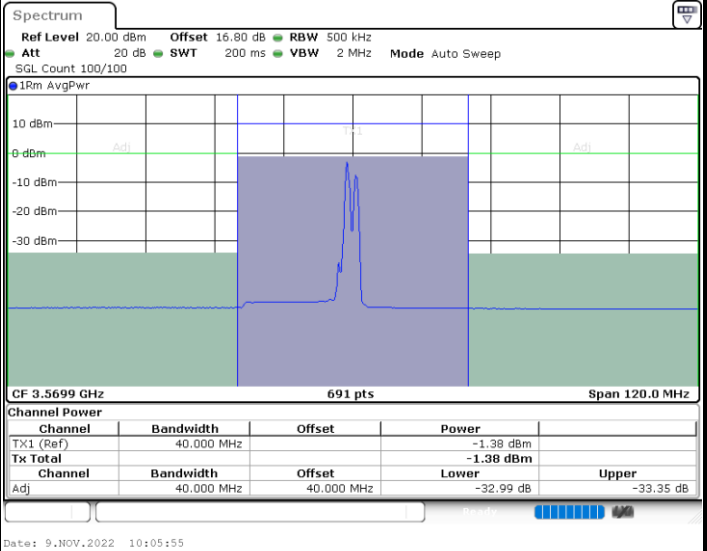
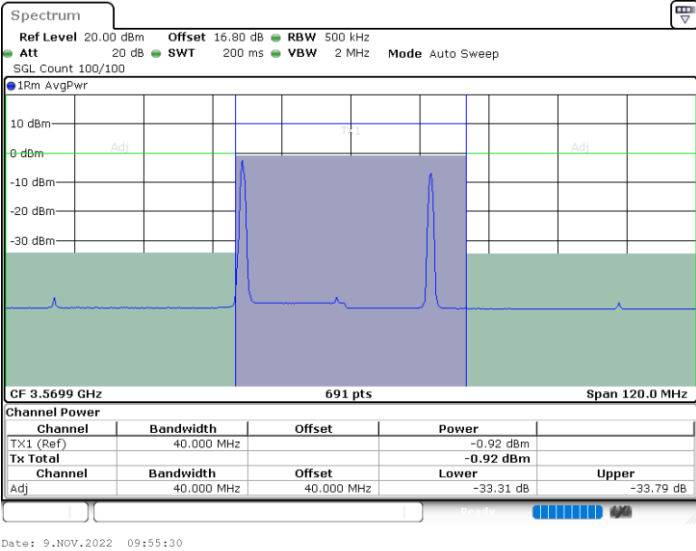


LTE Band 48C / 20MHz+15MHz

QPSK

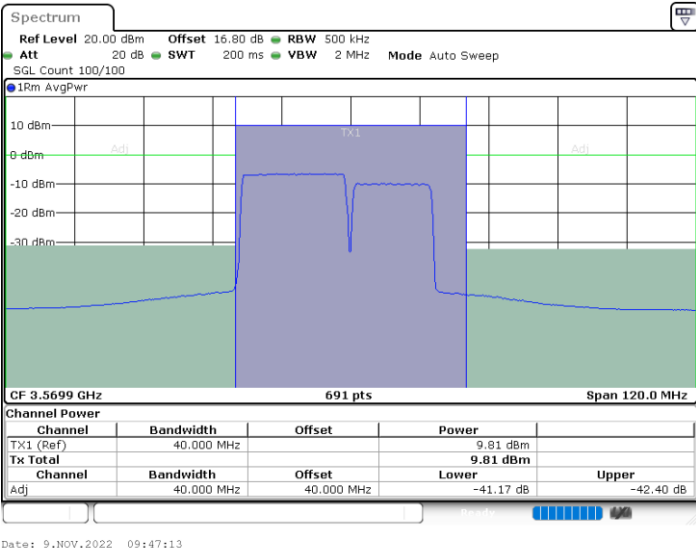
Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0



Lowest Channel / FullIRB

N/A



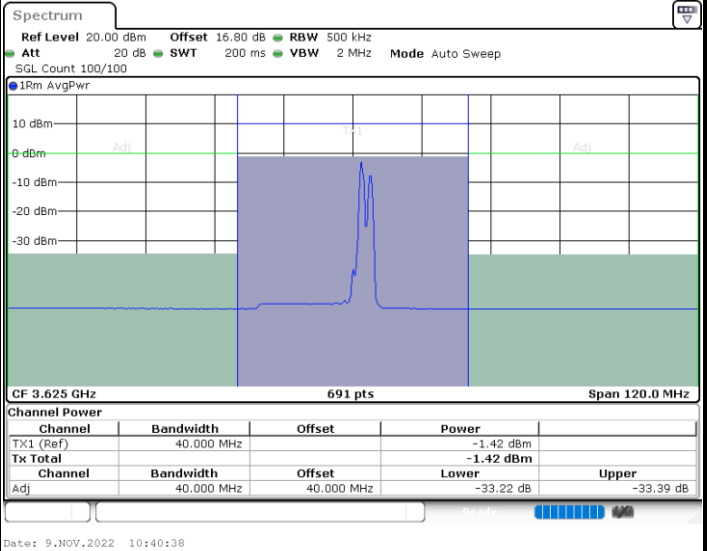
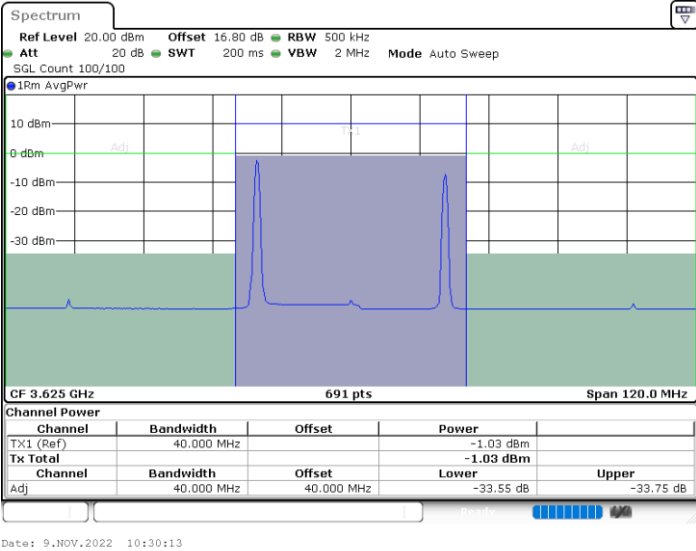


LTE Band 48C / 20MHz+15MHz

QPSK

Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0



Middle Channel / FullIRB

N/A

