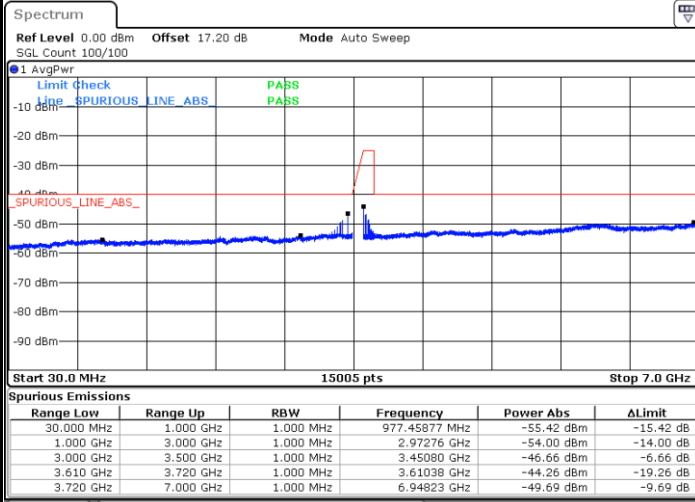




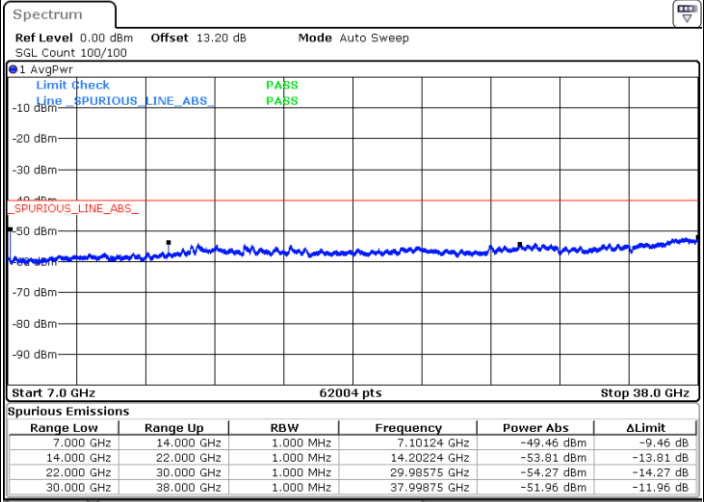
LTE Band 48 / 10MHz

Lowest Channel / QPSK



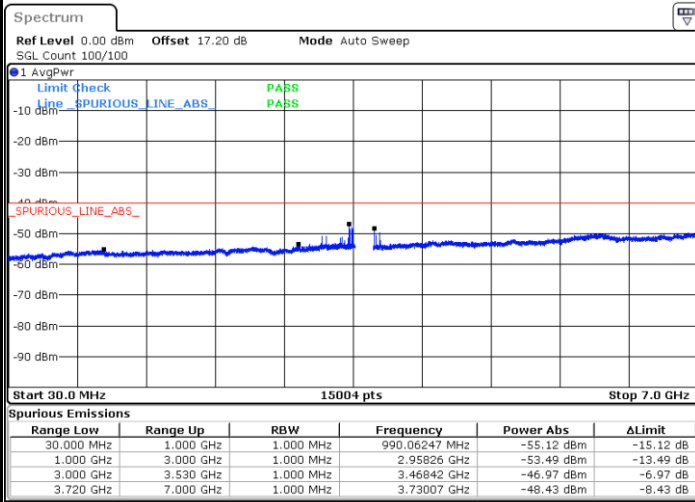
Date: 27.JAN.2022 00:28:35

Lowest Channel / QPSK



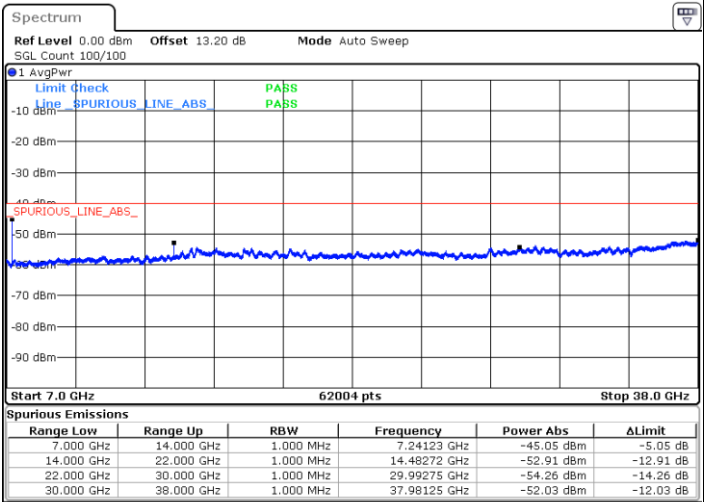
Date: 27.JAN.2022 02:10:08

Middle Channel / QPSK

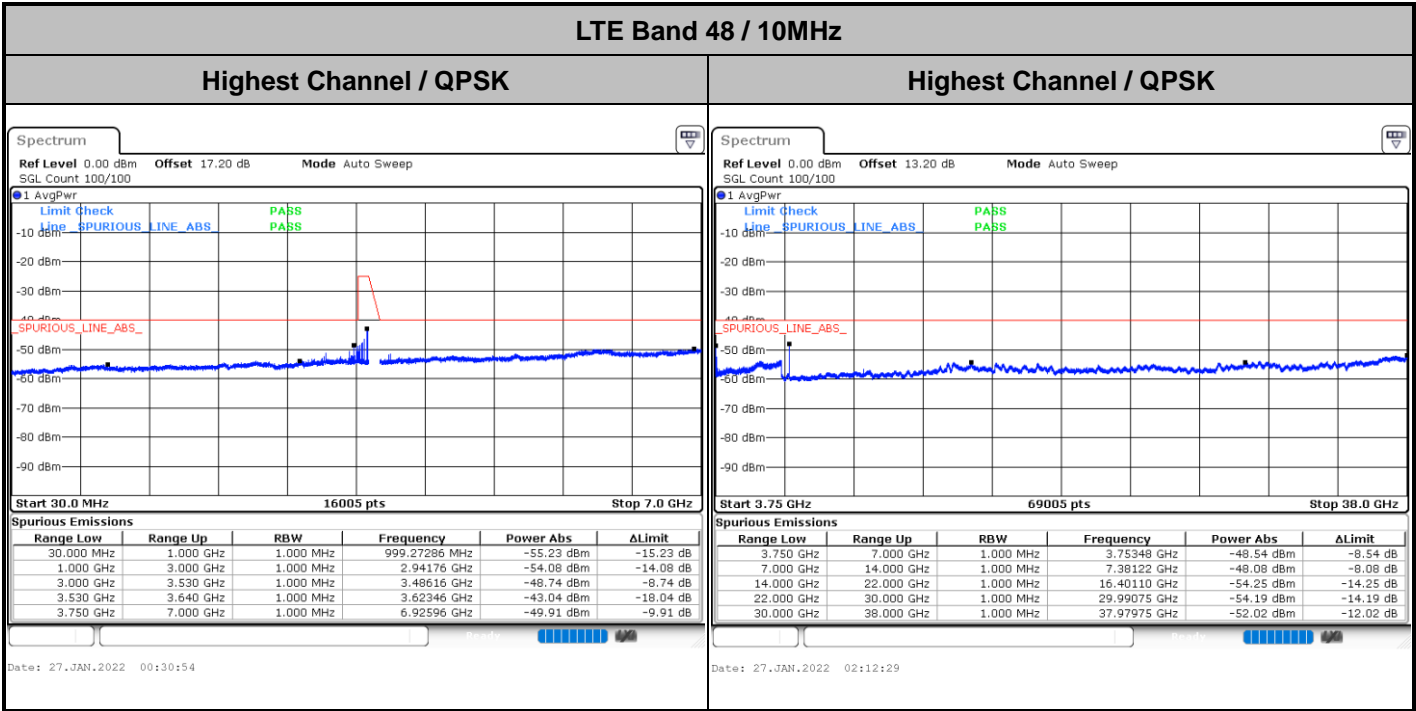


Date: 27.JAN.2022 00:29:45

Middle Channel / QPSK



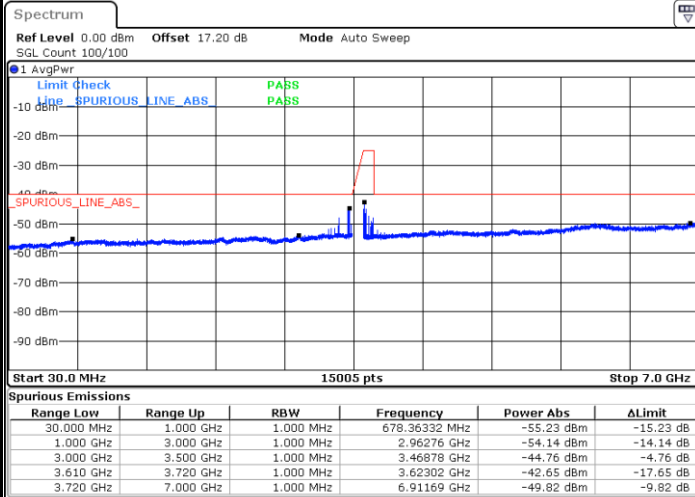
Date: 27.JAN.2022 02:11:18





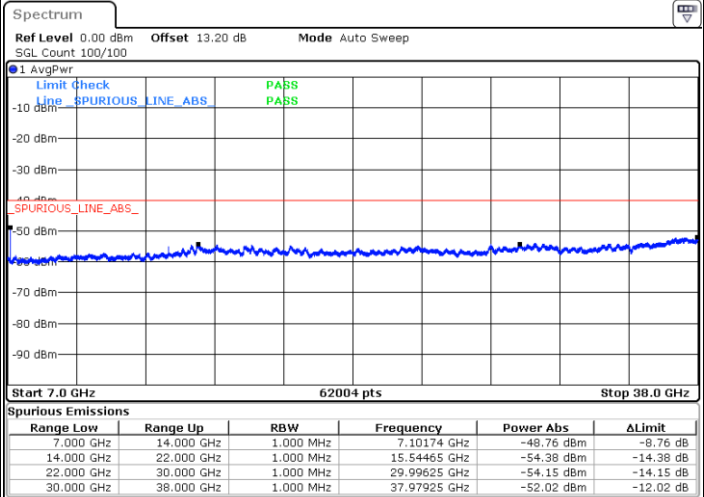
LTE Band 48 / 15MHz

Lowest Channel / QPSK



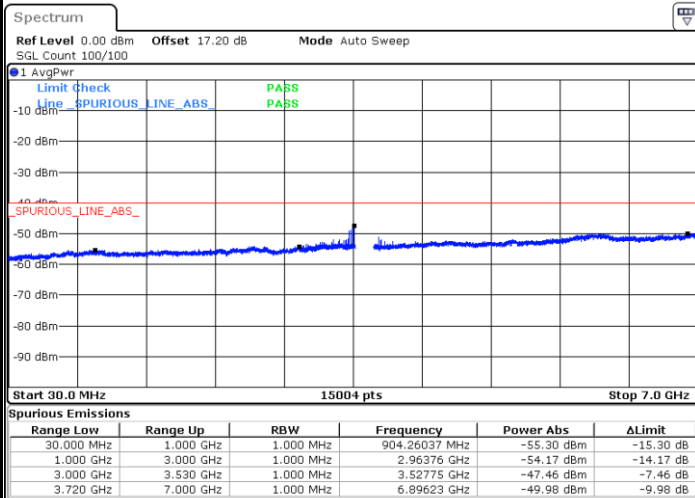
Date: 27.JAN.2022 00:32:05

Lowest Channel / QPSK



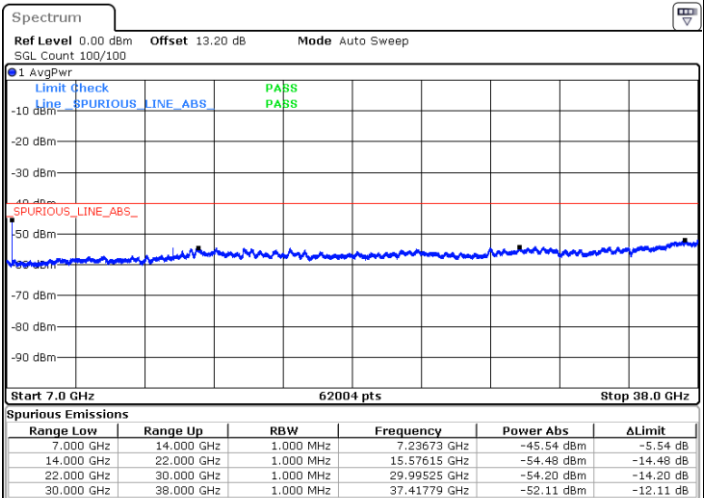
Date: 27.JAN.2022 02:13:40

Middle Channel / QPSK

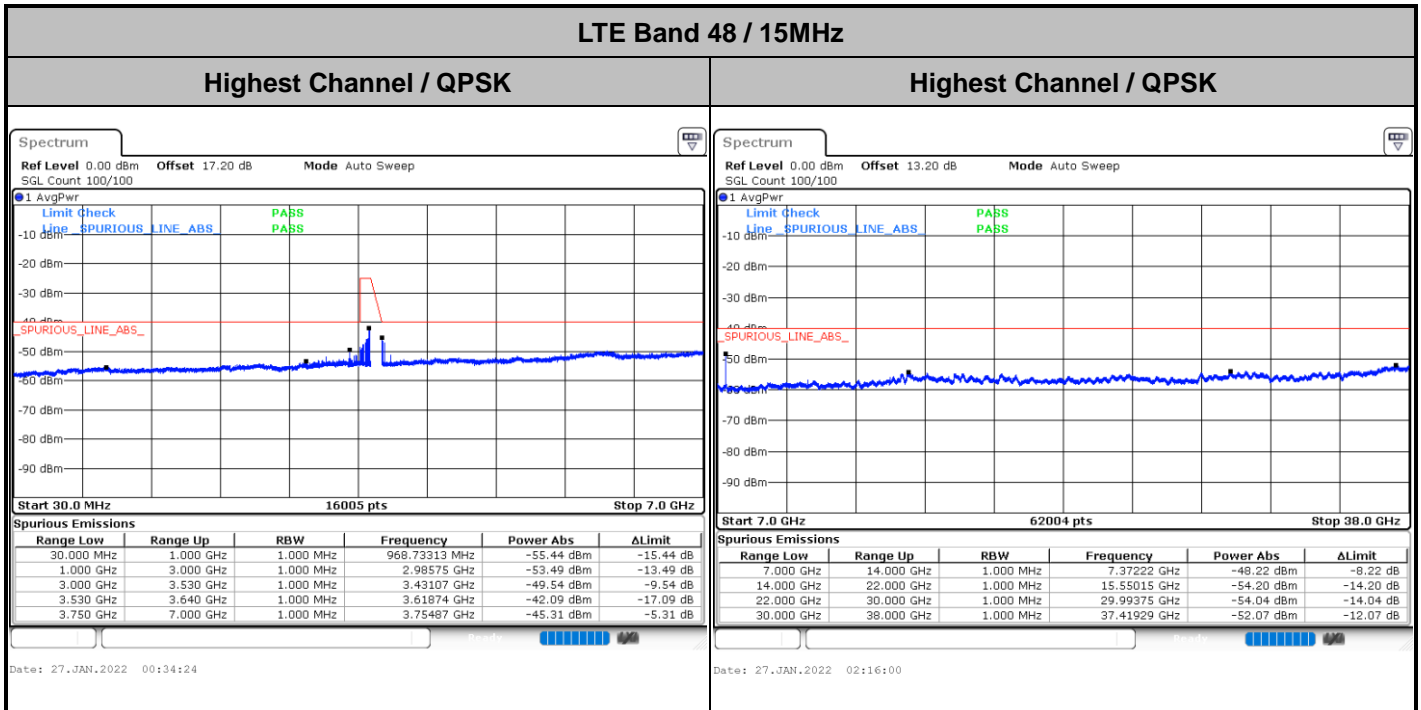


Date: 27.JAN.2022 00:33:14

Middle Channel / QPSK



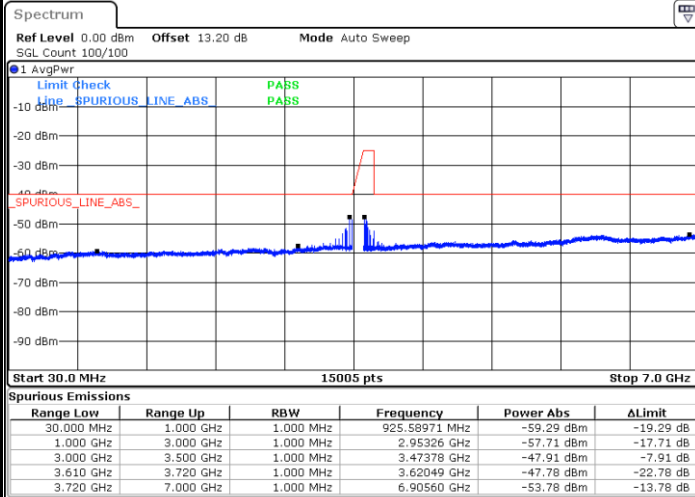
Date: 27.JAN.2022 02:14:50





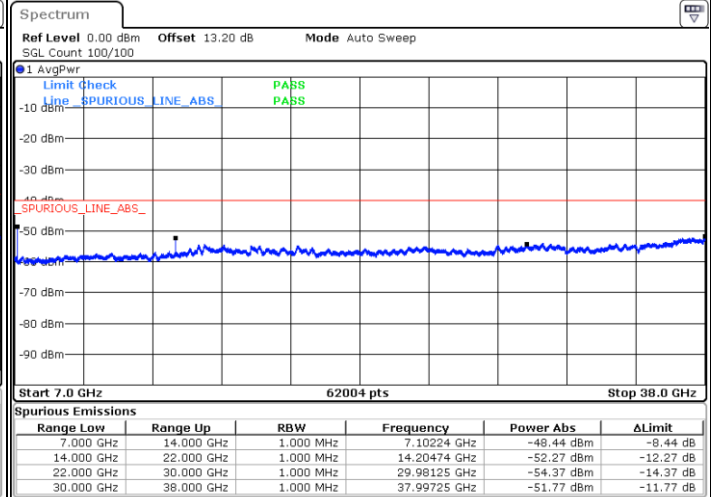
LTE Band 48 / 20MHz

Lowest Channel / QPSK



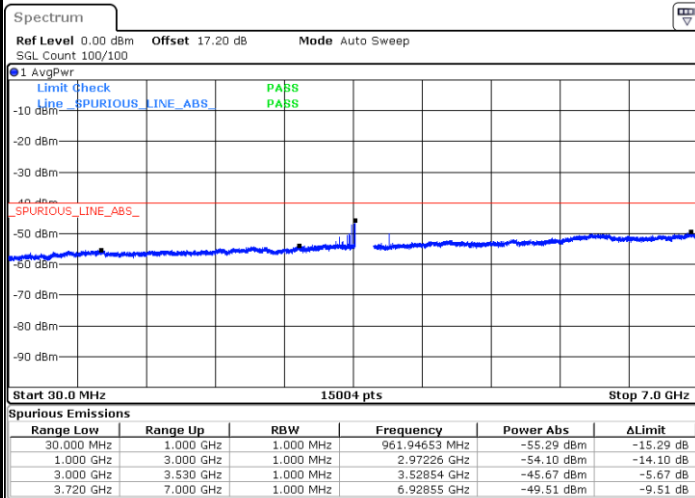
Date: 27.JAN.2022 02:21:29

Lowest Channel / QPSK



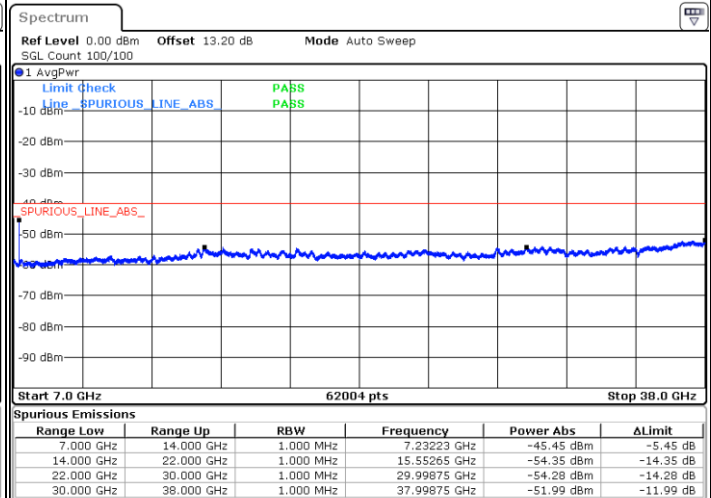
Date: 27.JAN.2022 02:17:10

Middle Channel / QPSK



Date: 27.JAN.2022 00:36:44

Middle Channel / QPSK



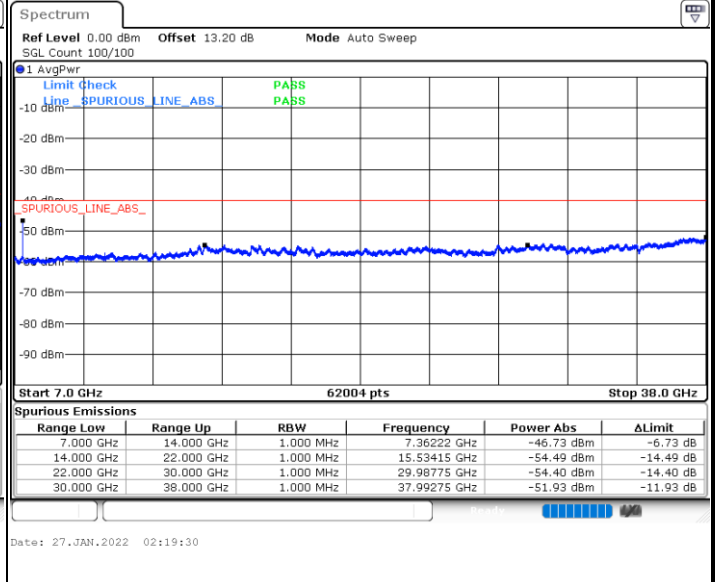
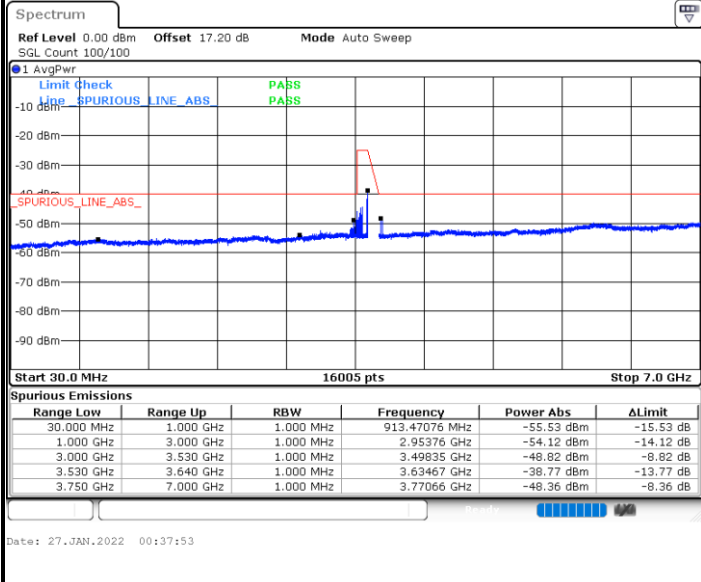
Date: 27.JAN.2022 02:18:21



LTE Band 48 / 20MHz

Highest 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	0.0004	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0018	
20	Battery End Point	0.0028	

**Note:**

- 1. Normal Voltage =4.2 V. ; Battery End Point (ACLRP) =3.4 V. ; Maximum Voltage =4.3 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	24.73	29.79	34.76	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	34.83	39.64	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.63	29.79	34.83	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.85	34.97	39.80	-

Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.68	29.97	34.83	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.91	34.76	39.64	-

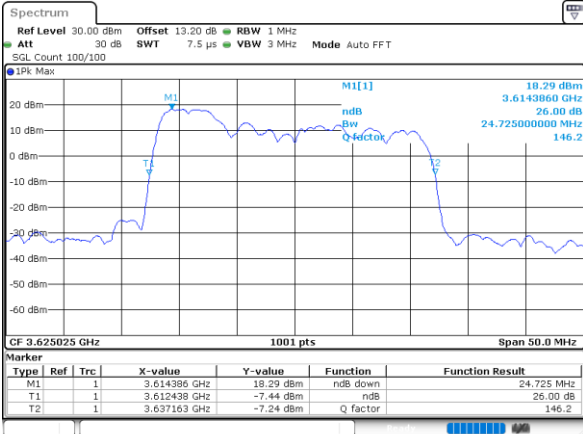
Mode	LTE Band 48C : 26dB BW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.83	29.67	34.76	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	34.69	39.80	-



LTE Band 48C

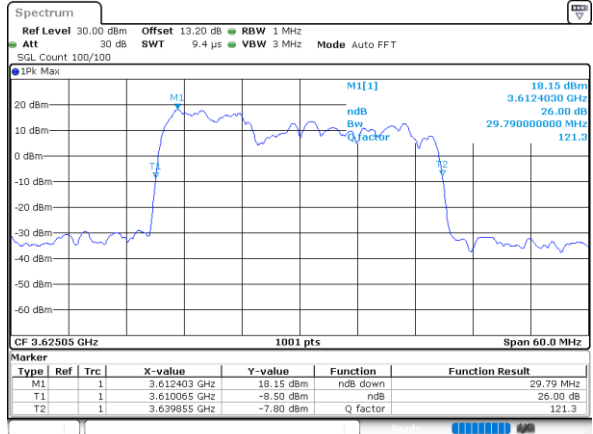
QPSK

Middle Channel / 5MHz+20MHz



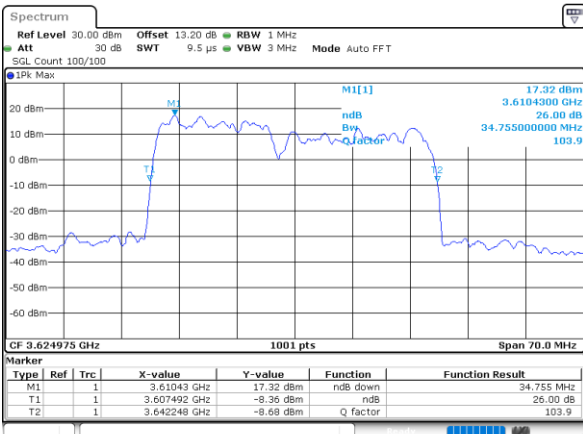
Date: 29\_JAN.2022 05:07:16

Middle Channel / 10MHz+20MHz



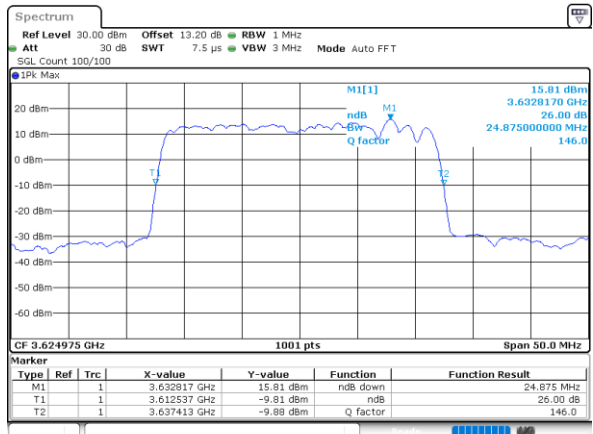
Date: 29\_JAN.2022 08:27:24

Middle Channel / 15MHz+20MHz



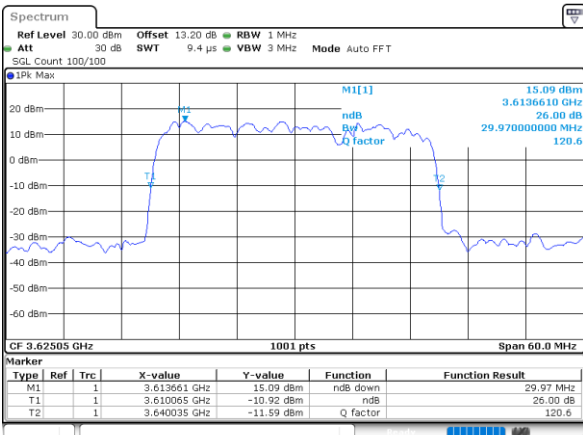
Date: 29\_JAN.2022 08:39:06

Middle Channel / 20MHz+5MHz



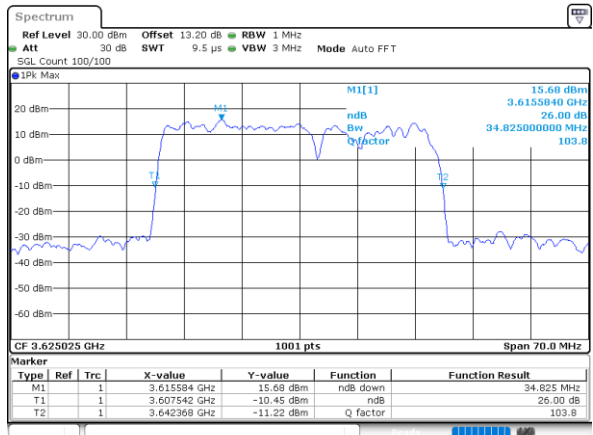
Date: 31\_JAN.2022 07:58:51

Middle Channel / 20MHz+10MHz

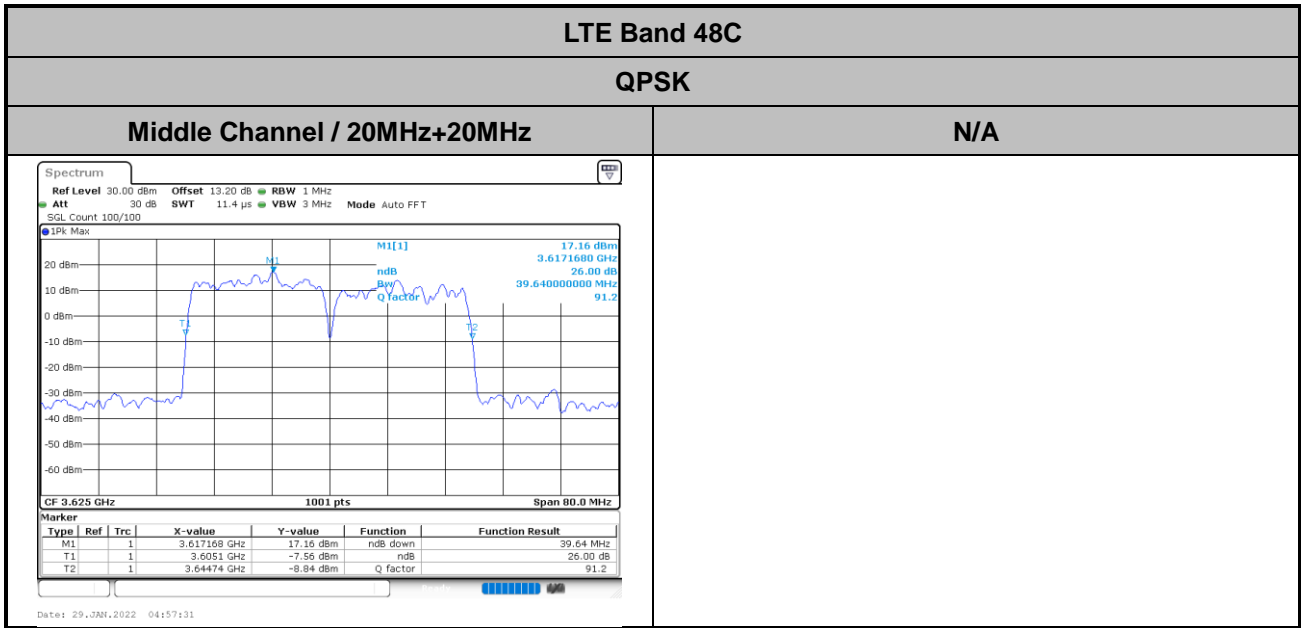


Date: 31\_JAN.2022 07:44:49

Middle Channel / 20MHz+15MHz



Date: 31\_JAN.2022 11:00:58

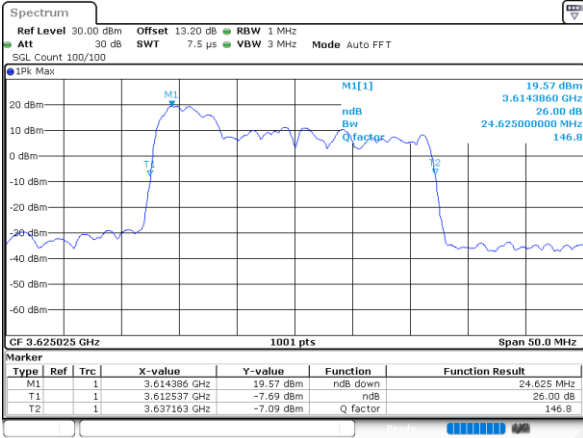




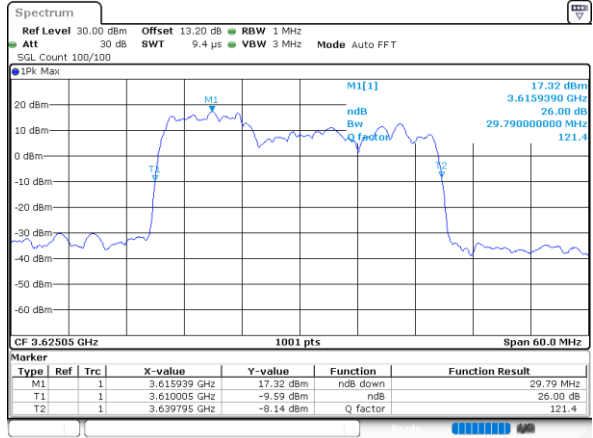
LTE Band 48C

16QAM

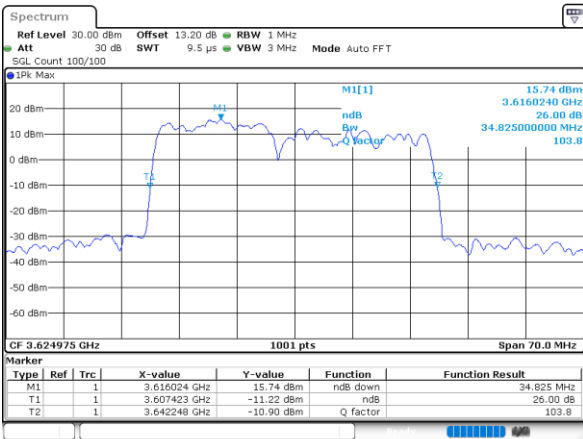
Middle Channel / 5MHz+20MHz



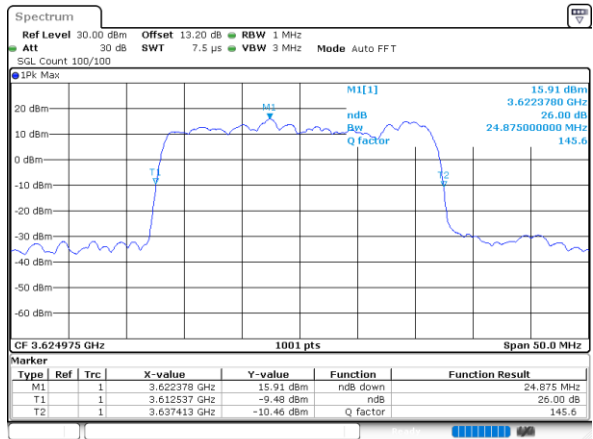
Middle Channel / 10MHz+20MHz



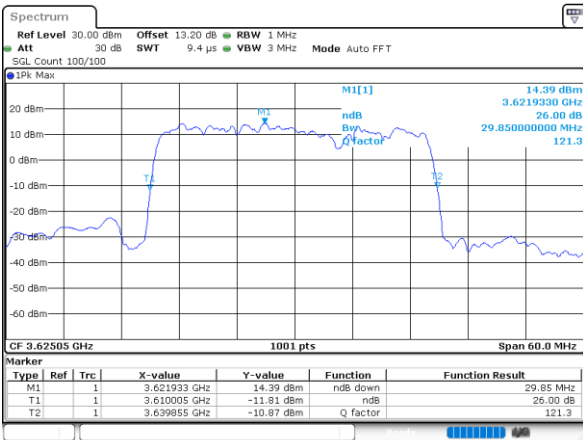
Middle Channel / 15MHz+20MHz



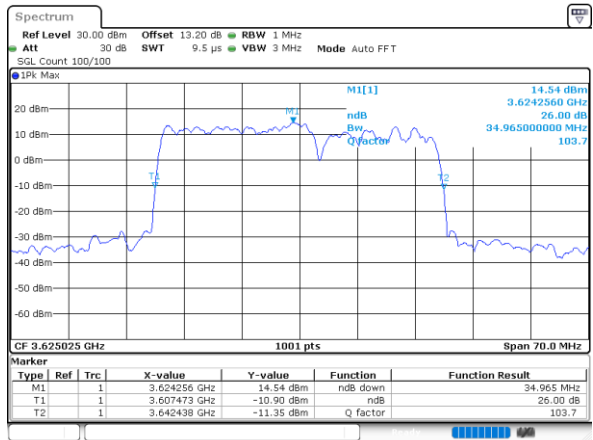
Middle Channel / 20MHz+5MHz

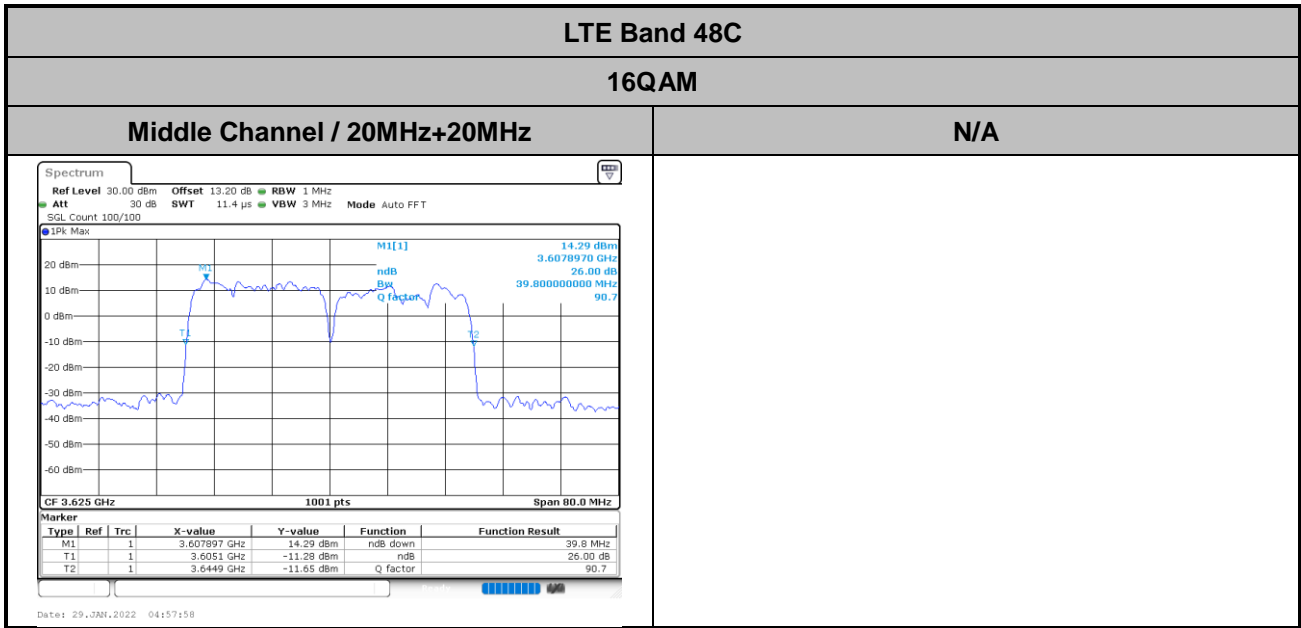


Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



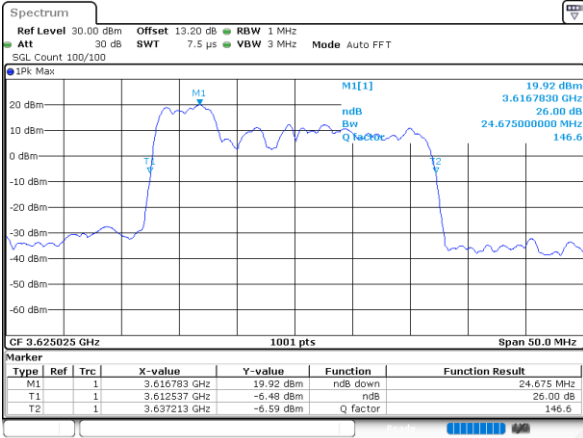




LTE Band 48C

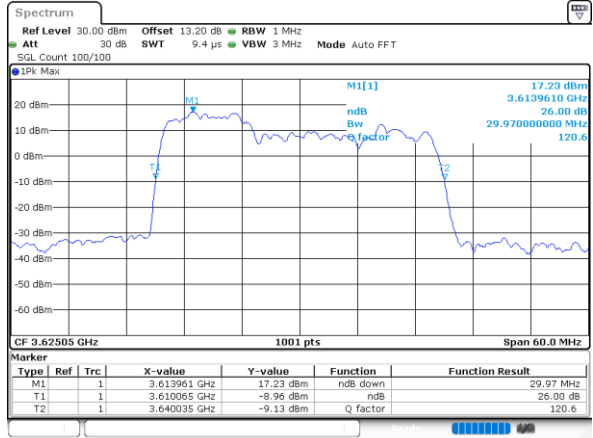
64QAM

Middle Channel / 5MHz+20MHz



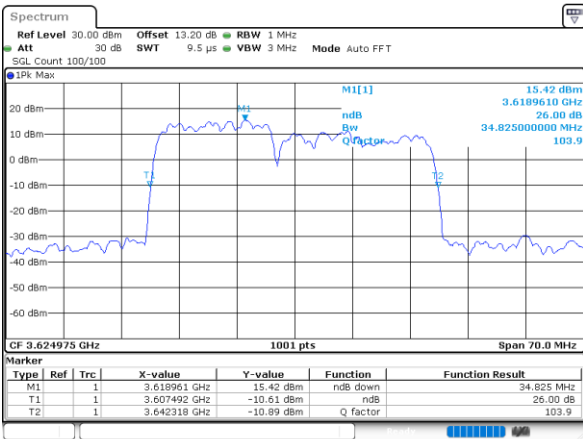
Date: 29\_JAN.2022 05:09:05

Middle Channel / 10MHz+20MHz



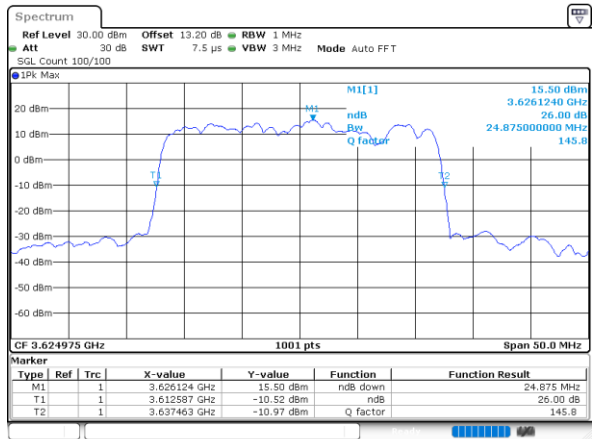
Date: 29\_JAN.2022 08:28:19

Middle Channel / 15MHz+20MHz



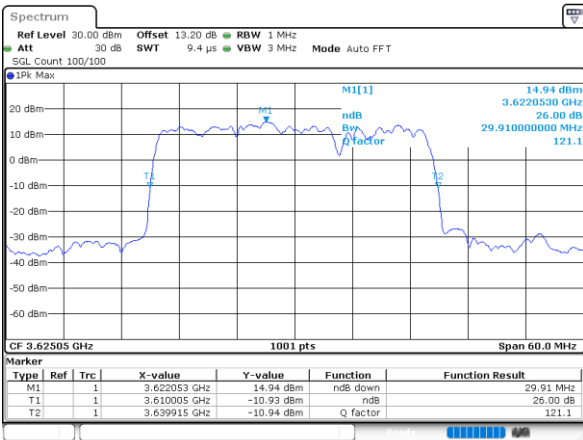
Date: 29\_JAN.2022 08:45:22

Middle Channel / 20MHz+5MHz



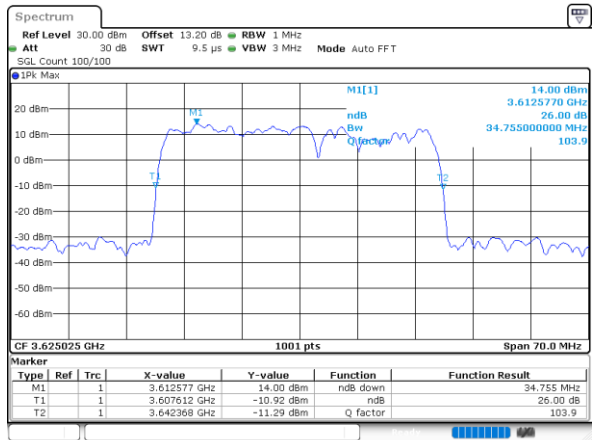
Date: 31\_JAN.2022 07:40:41

Middle Channel / 20MHz+10MHz

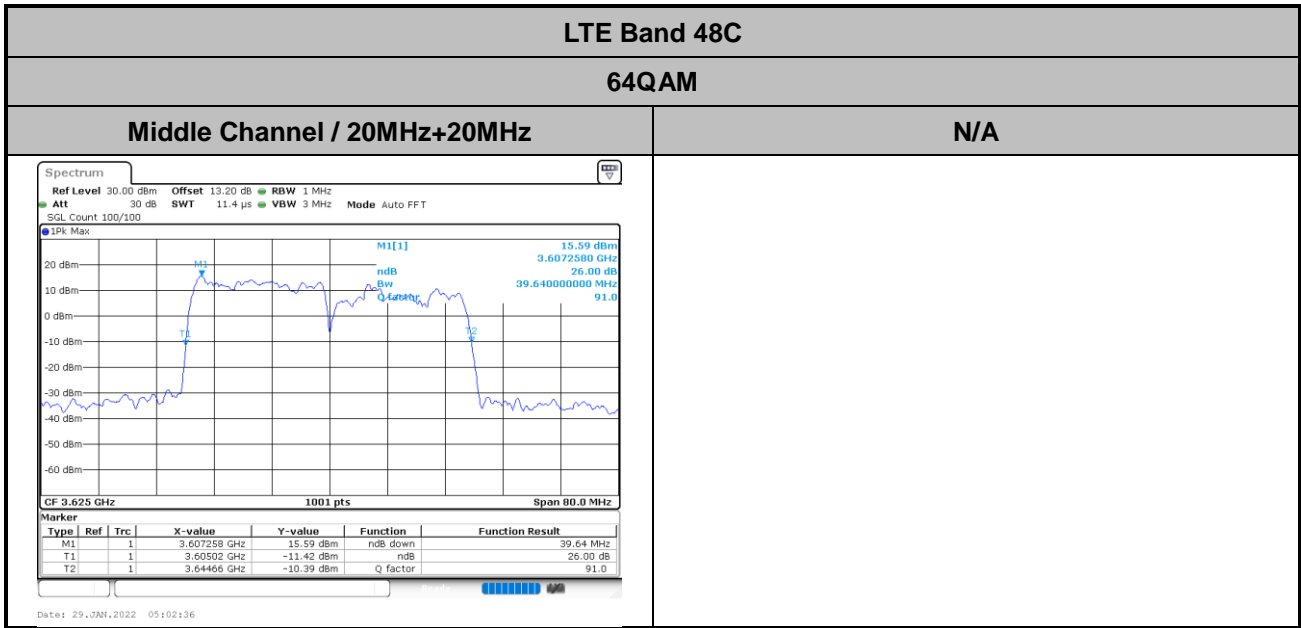


Date: 31\_JAN.2022 07:47:02

Middle Channel / 20MHz+15MHz



Date: 31\_JAN.2022 11:01:33

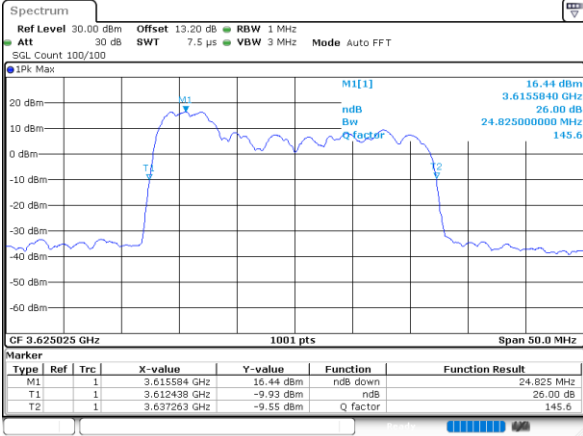




LTE Band 48C

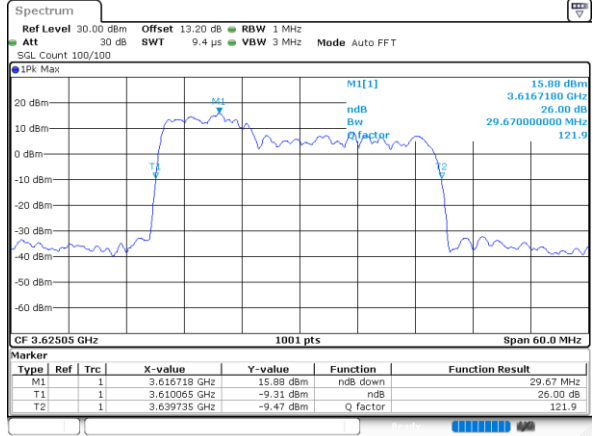
256QAM

Middle Channel / 5MHz+20MHz



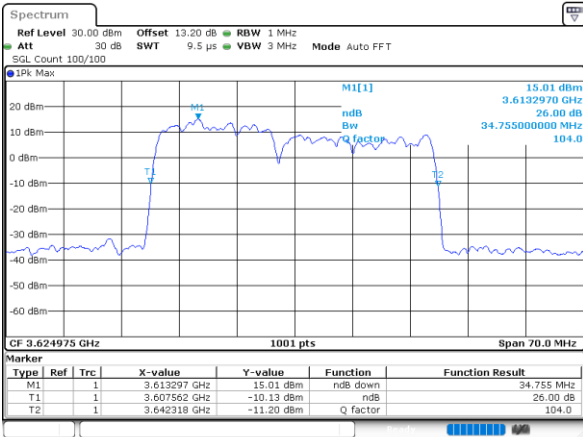
Date: 29\_JAN.2022 05:09:33

Middle Channel / 10MHz+20MHz



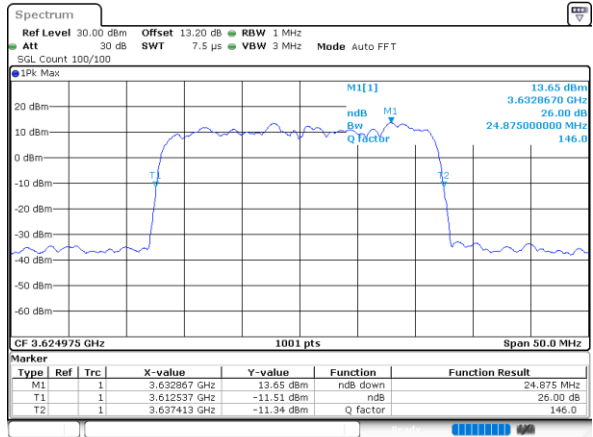
Date: 29\_JAN.2022 08:28:46

Middle Channel / 15MHz+20MHz



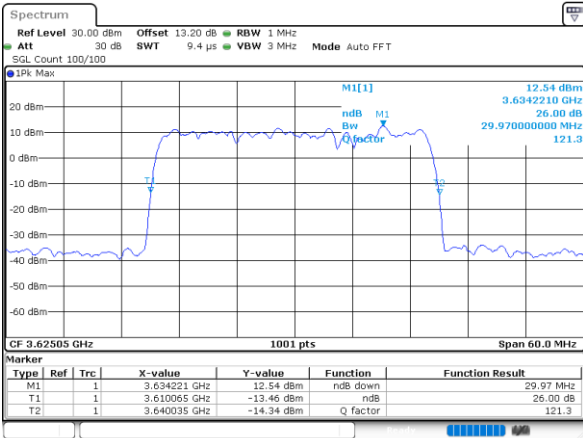
Date: 29\_JAN.2022 08:41:23

Middle Channel / 20MHz+5MHz



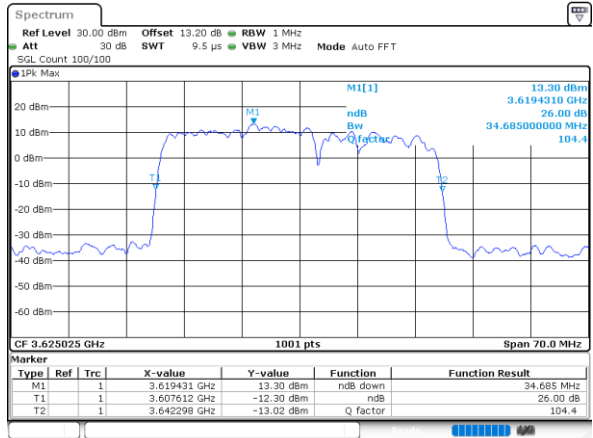
Date: 31\_JAN.2022 07:41:08

Middle Channel / 20MHz+10MHz



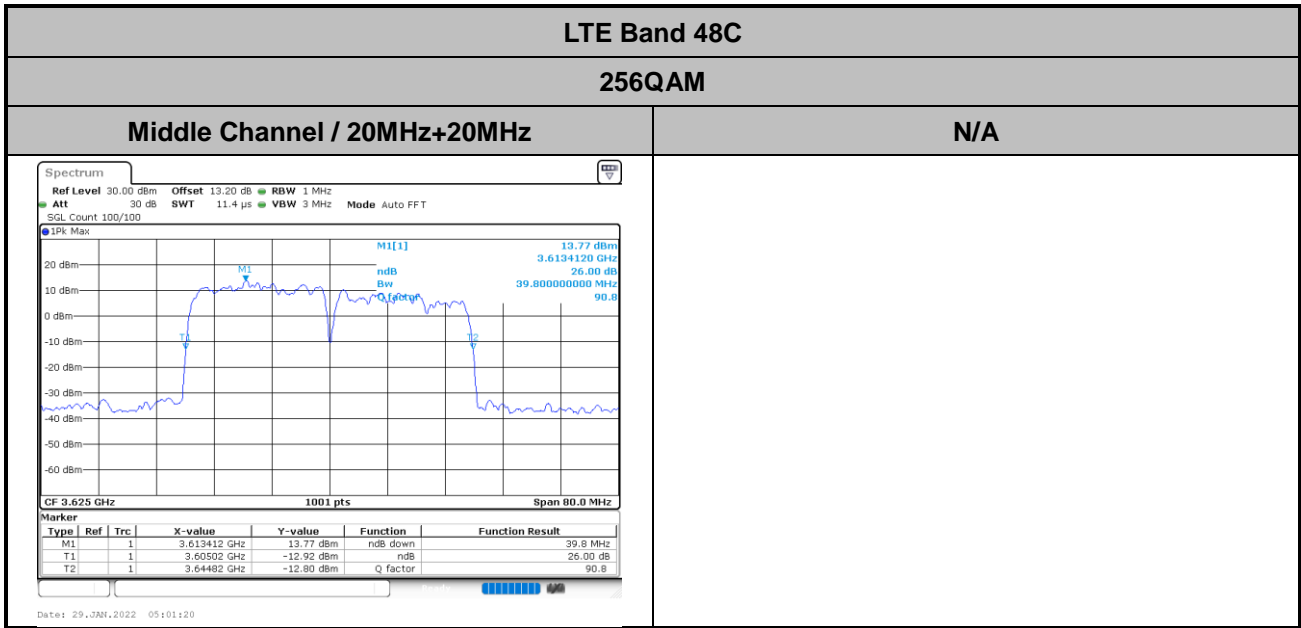
Date: 31\_JAN.2022 07:46:11

Middle Channel / 20MHz+15MHz



Date: 31\_JAN.2022 11:02:10







**Occupied Bandwidth**

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.08	27.93	32.73	23.28
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.05	32.66	37.48	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.13	27.75	32.59	23.13
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.87	32.59	37.64	-

Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	22.93	27.69	32.66	23.08
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.05	32.59	37.40	-

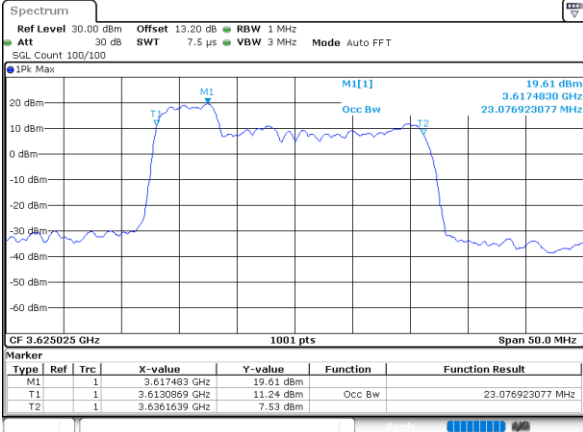
Mode	LTE Band 48C : 99%OBW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	22.98	27.63	32.66	23.18
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.81	32.80	37.40	-



LTE Band 48C

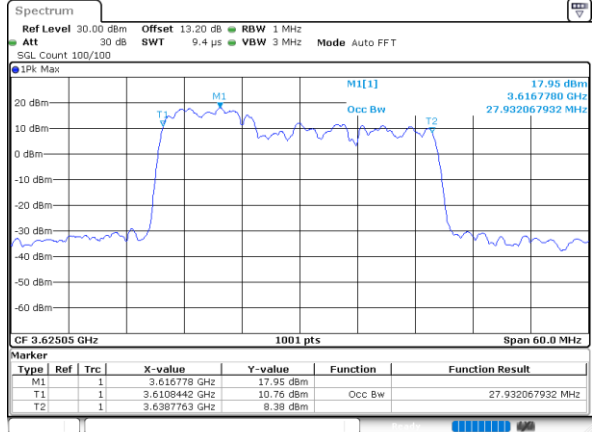
QPSK

Middle Channel / 5MHz+20MHz



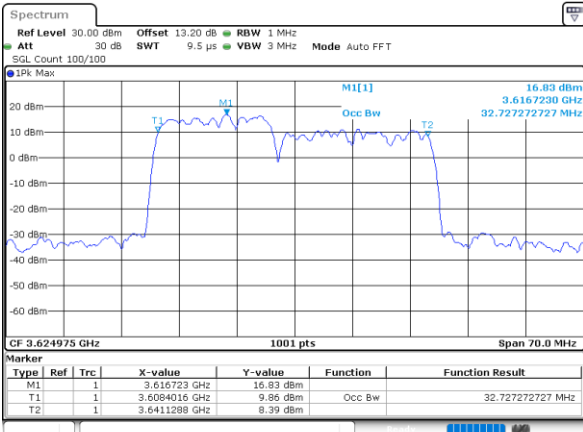
Date: 29\_JAN,2022 05:06:49

Middle Channel / 10MHz+20MHz



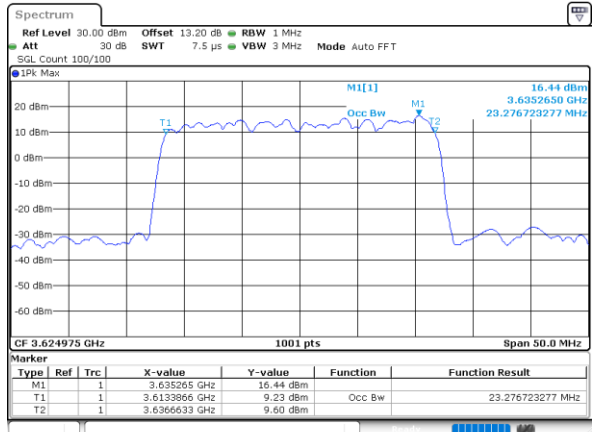
Date: 29\_JAN,2022 08:25:34

Middle Channel / 15MHz+20MHz



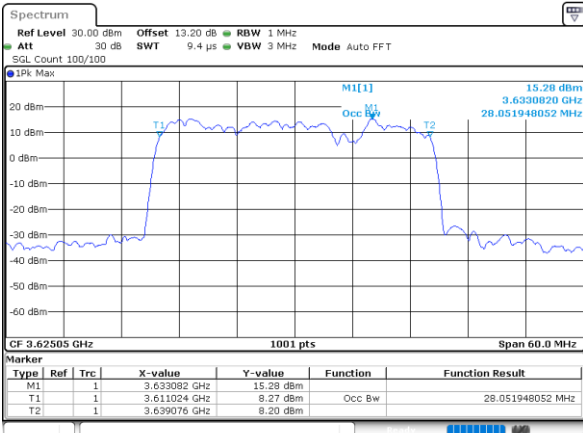
Date: 29\_JAN,2022 08:44:51

Middle Channel / 20MHz+5MHz



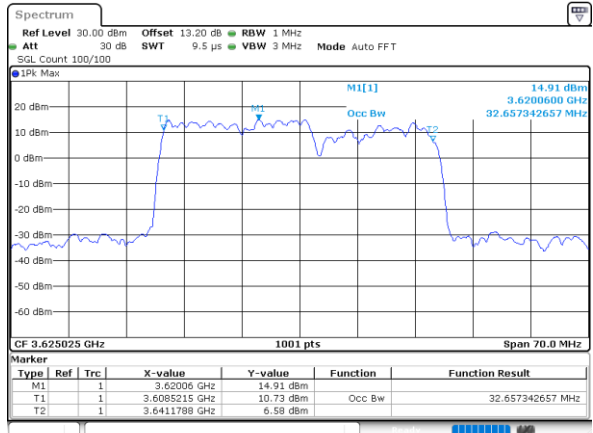
Date: 31\_JAN,2022 07:58:24

Middle Channel / 20MHz+10MHz



Date: 31\_JAN,2022 07:42:59

Middle Channel / 20MHz+15MHz



Date: 31\_JAN,2022 10:58:48

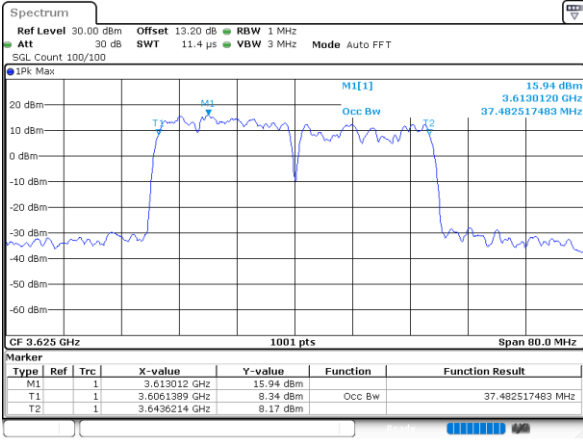


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A

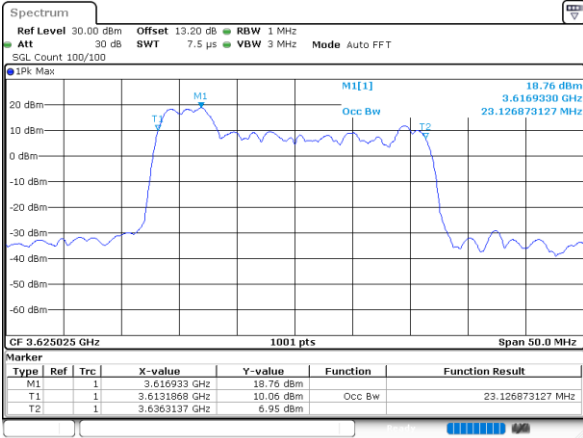




LTE Band 48C

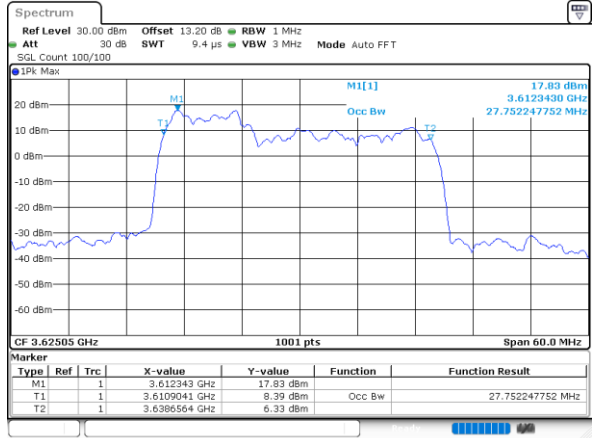
16QAM

Middle Channel / 5MHz+20MHz



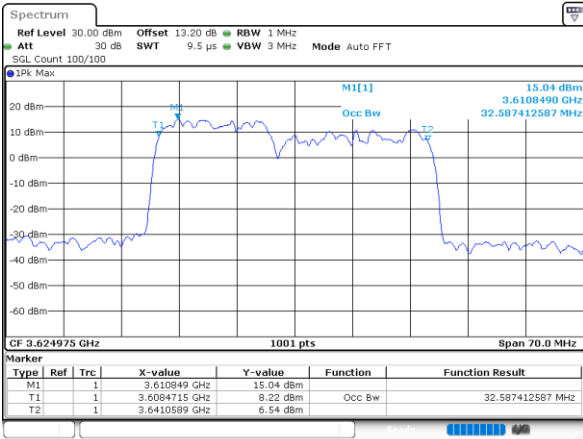
Date: 29\_JAN.2022 05:08:11

Middle Channel / 10MHz+20MHz



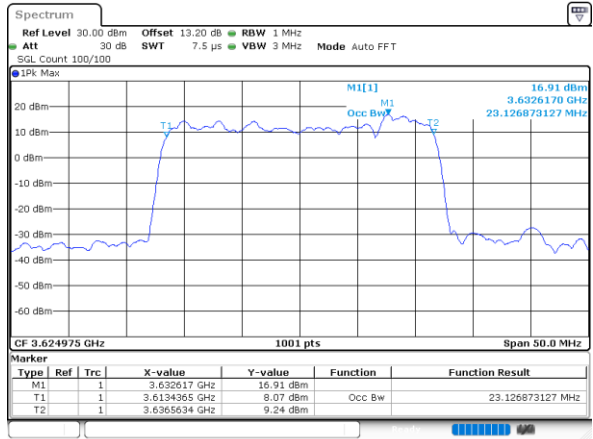
Date: 29\_JAN.2022 08:26:02

Middle Channel / 15MHz+20MHz



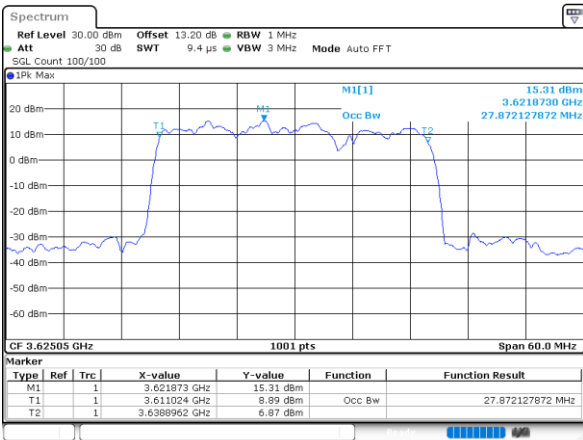
Date: 29\_JAN.2022 08:40:01

Middle Channel / 20MHz+5MHz



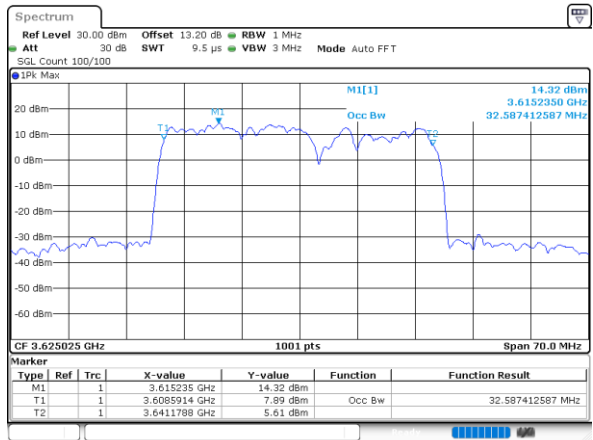
Date: 31\_JAN.2022 07:59:46

Middle Channel / 20MHz+10MHz



Date: 31\_JAN.2022 07:43:26

Middle Channel / 20MHz+15MHz



Date: 31\_JAN.2022 10:59:16

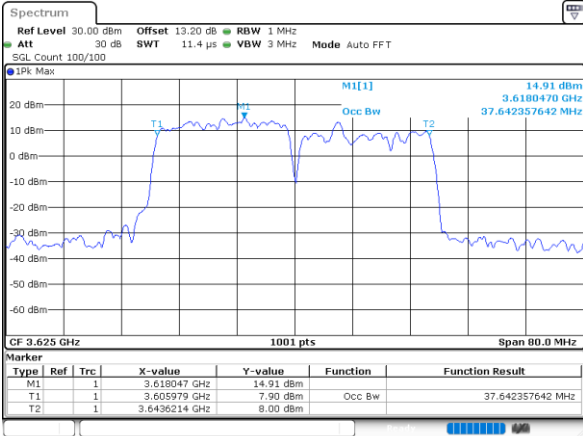


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A

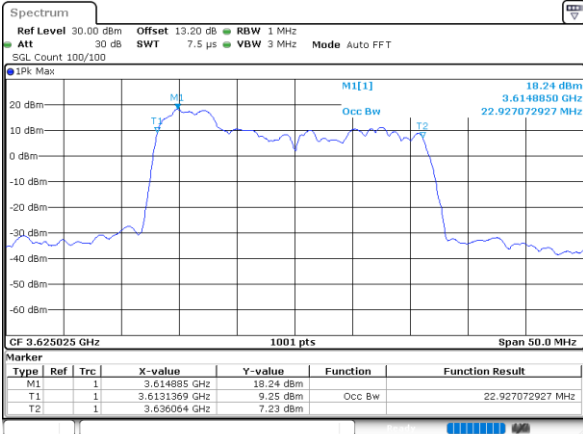




LTE Band 48C

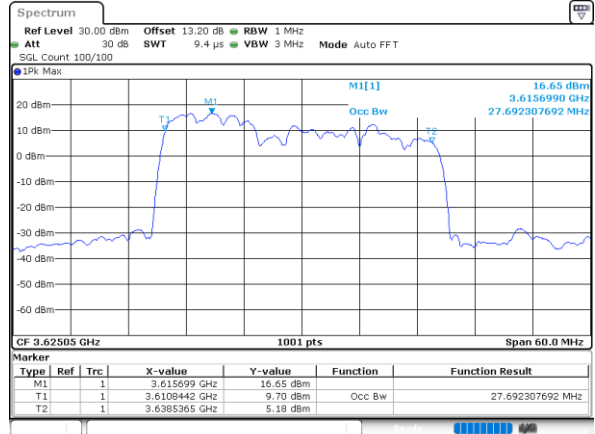
64QAM

Middle Channel / 5MHz+20MHz



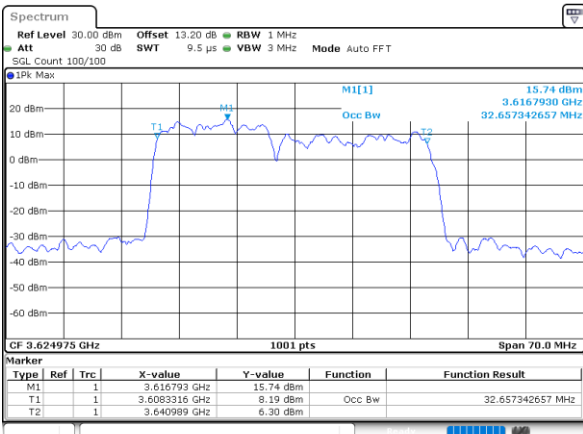
Date: 29\_JAN.2022 05:08:38

Middle Channel / 10MHz+20MHz



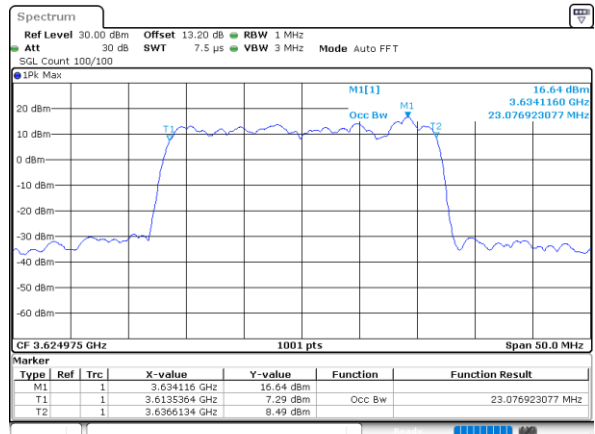
Date: 29\_JAN.2022 08:26:29

Middle Channel / 15MHz+20MHz



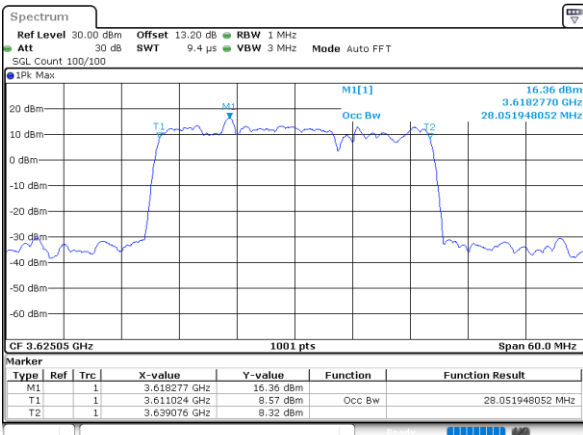
Date: 29\_JAN.2022 08:44:13

Middle Channel / 20MHz+5MHz



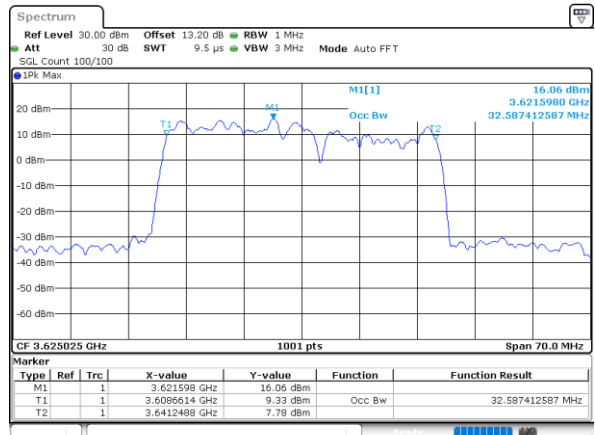
Date: 31\_JAN.2022 07:40:14

Middle Channel / 20MHz+10MHz

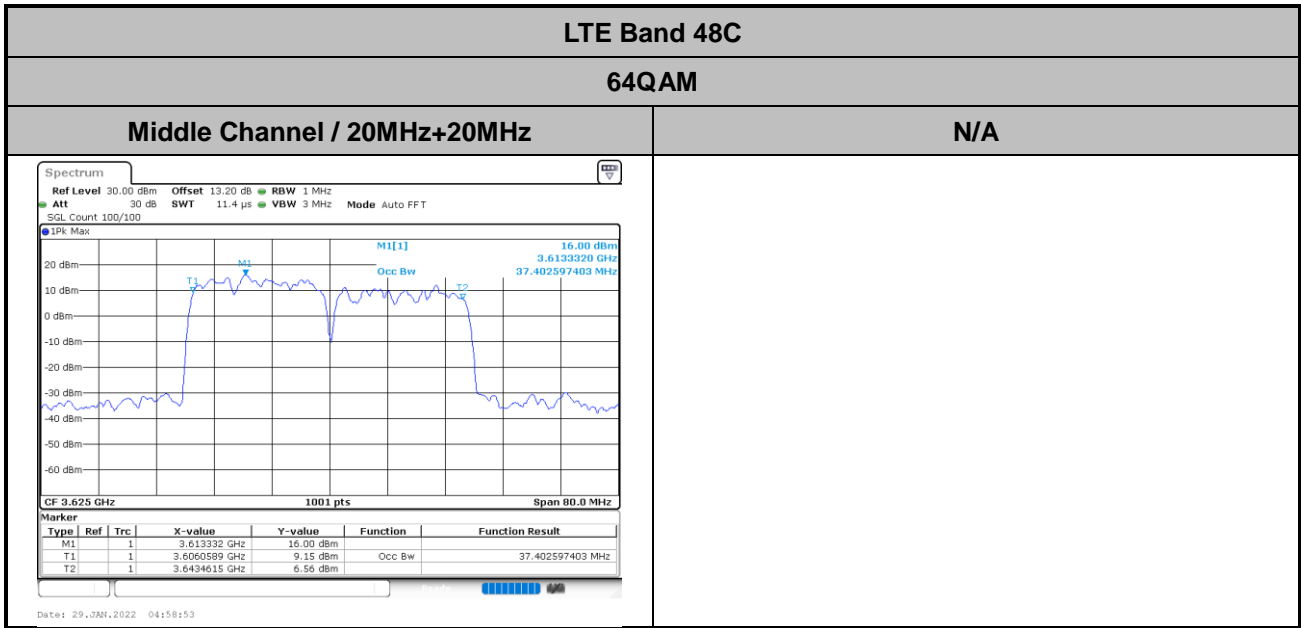


Date: 31\_JAN.2022 07:43:54

Middle Channel / 20MHz+15MHz



Date: 31\_JAN.2022 10:59:43



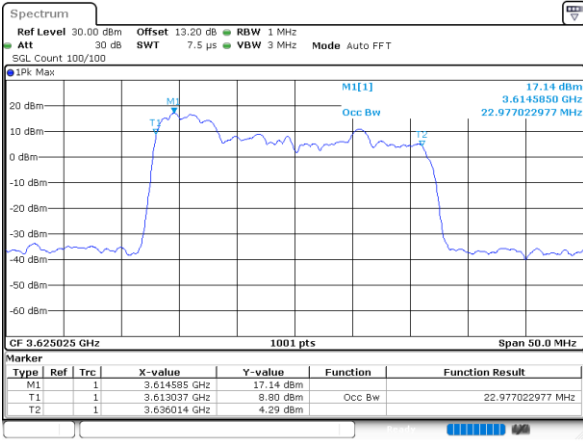




LTE Band 48C

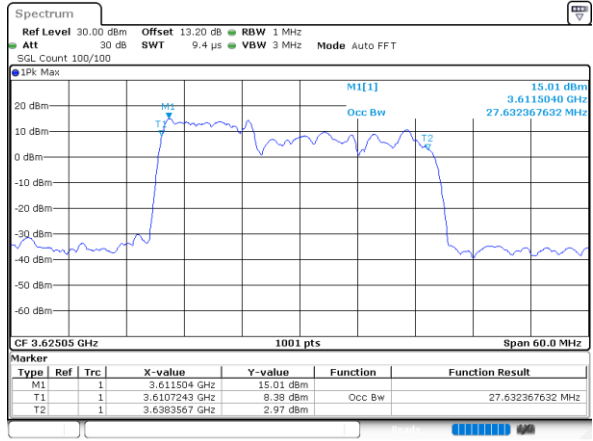
256QAM

Middle Channel / 5MHz+20MHz



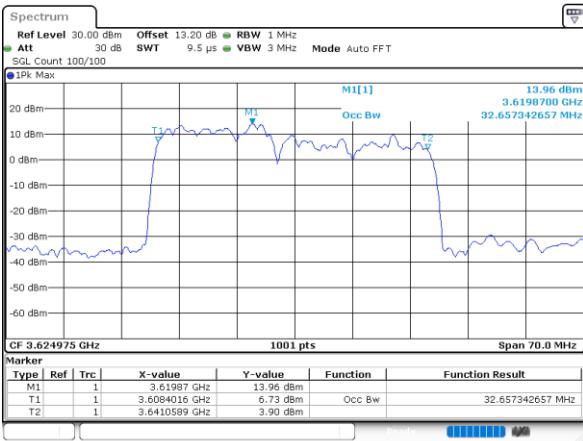
Date: 29\_JAN.2022 05:10:00

Middle Channel / 10MHz+20MHz



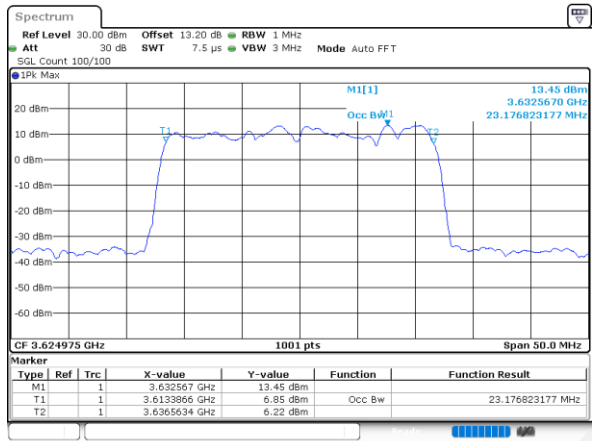
Date: 29\_JAN.2022 08:36:27

Middle Channel / 15MHz+20MHz



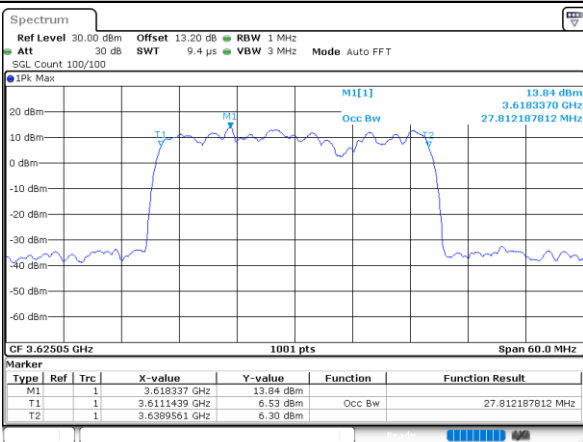
Date: 29\_JAN.2022 08:41:50

Middle Channel / 20MHz+5MHz



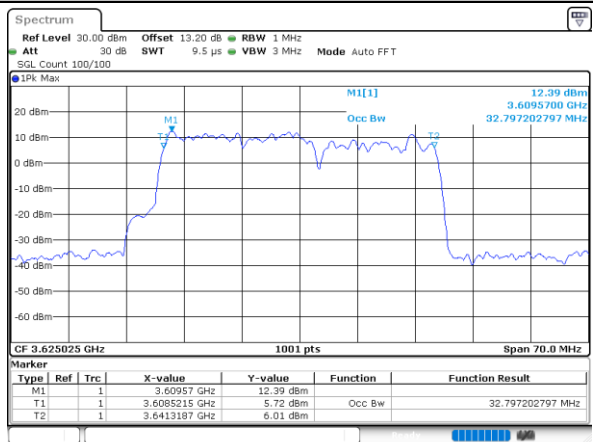
Date: 31\_JAN.2022 07:41:35

Middle Channel / 20MHz+10MHz



Date: 31\_JAN.2022 07:44:21

Middle Channel / 20MHz+15MHz



Date: 31\_JAN.2022 11:00:10

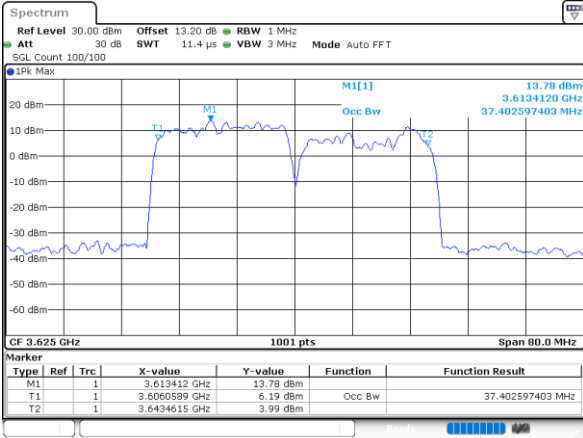


LTE Band 48C

256QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 29 JAN 2022 05:00:54



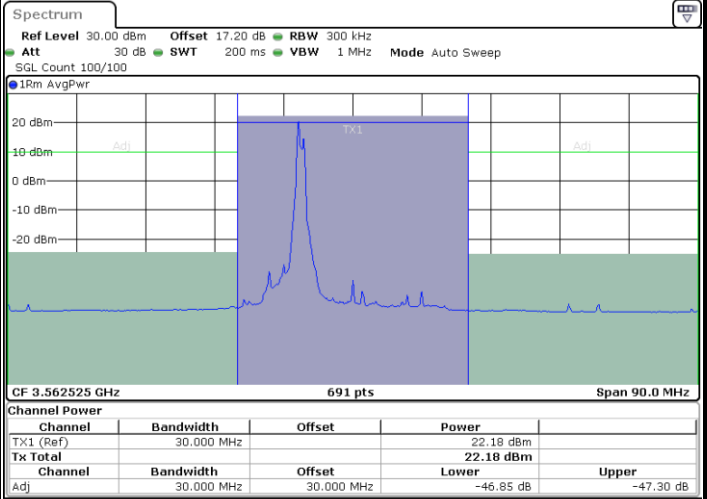
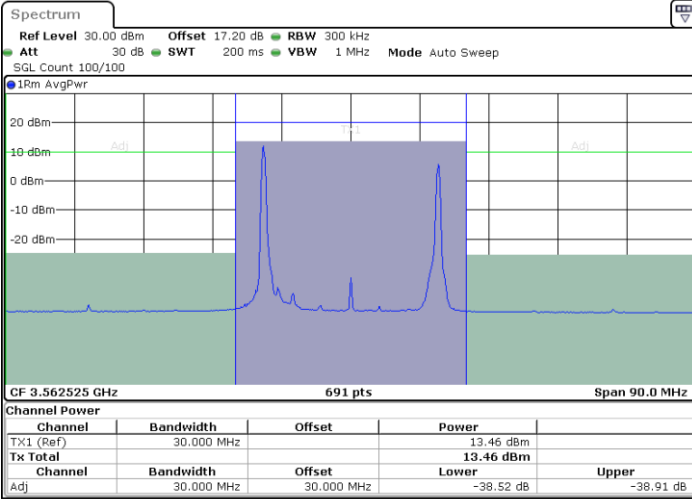
ACLR

LTE Band 48C / 5MHz+20MHz

QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB24 and 1RB0

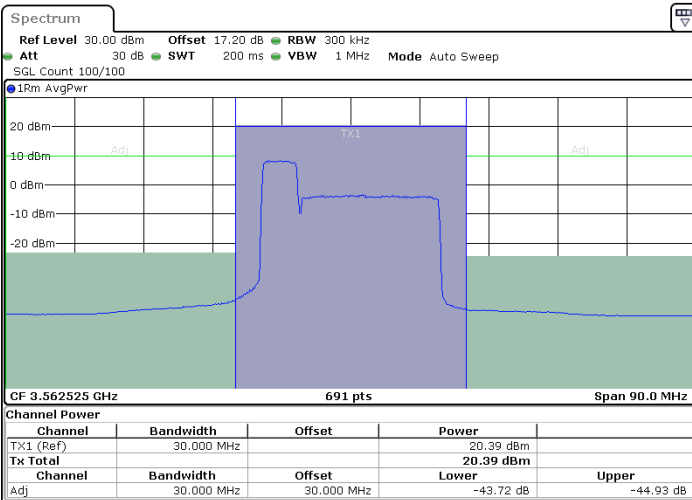


Date: 29.JAN.2022 05:53:32

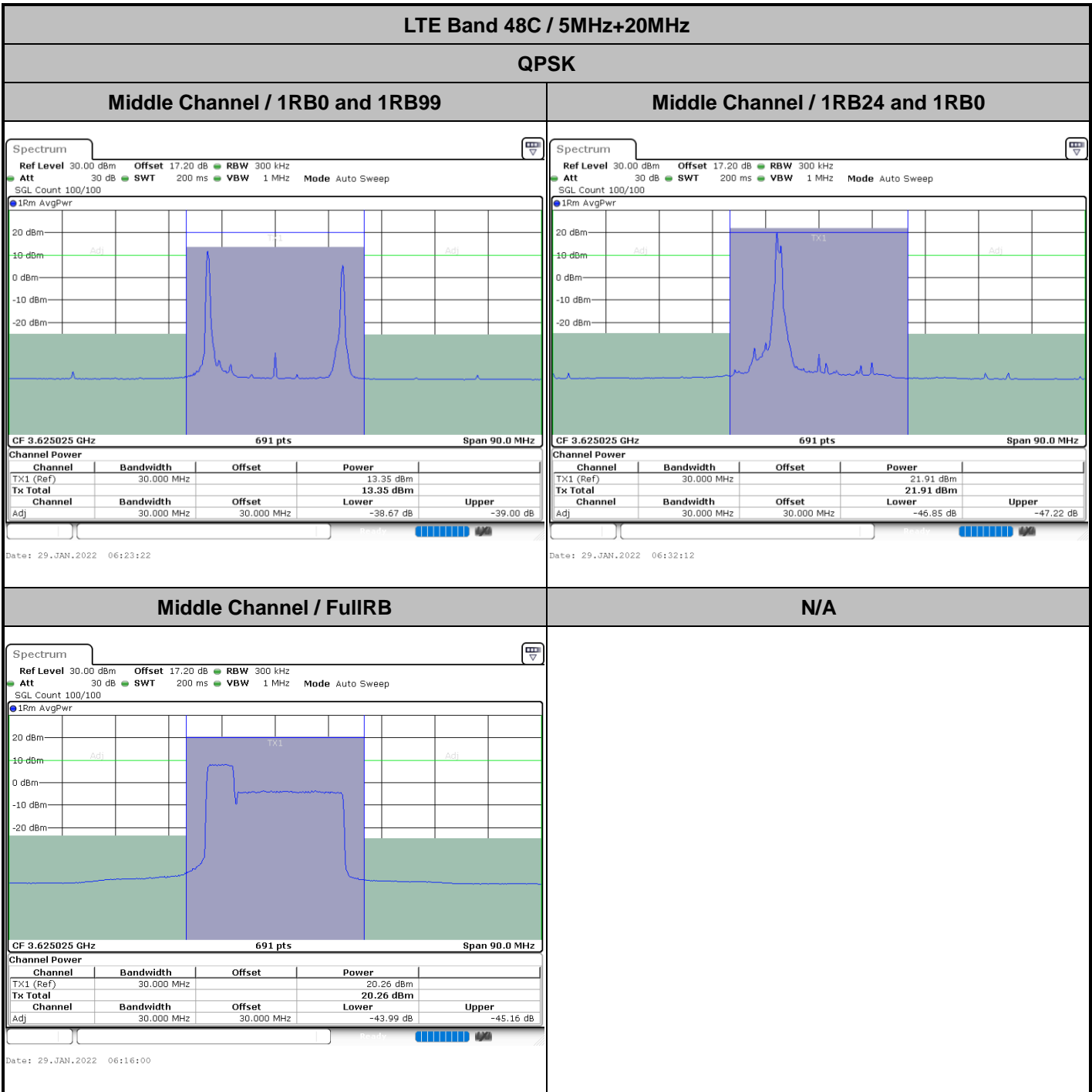
Date: 29.JAN.2022 06:02:21

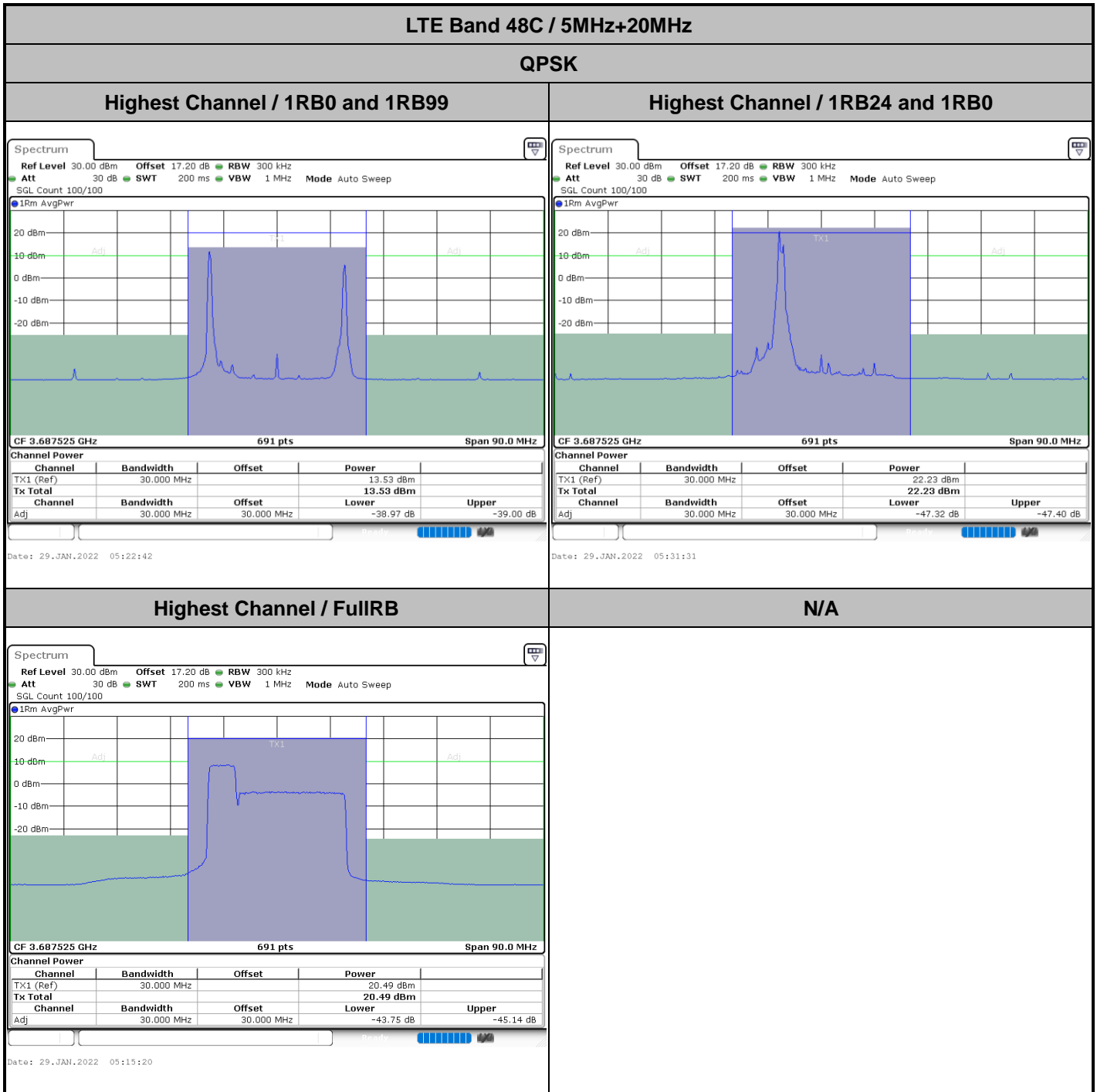
Lowest Channel / FullIRB

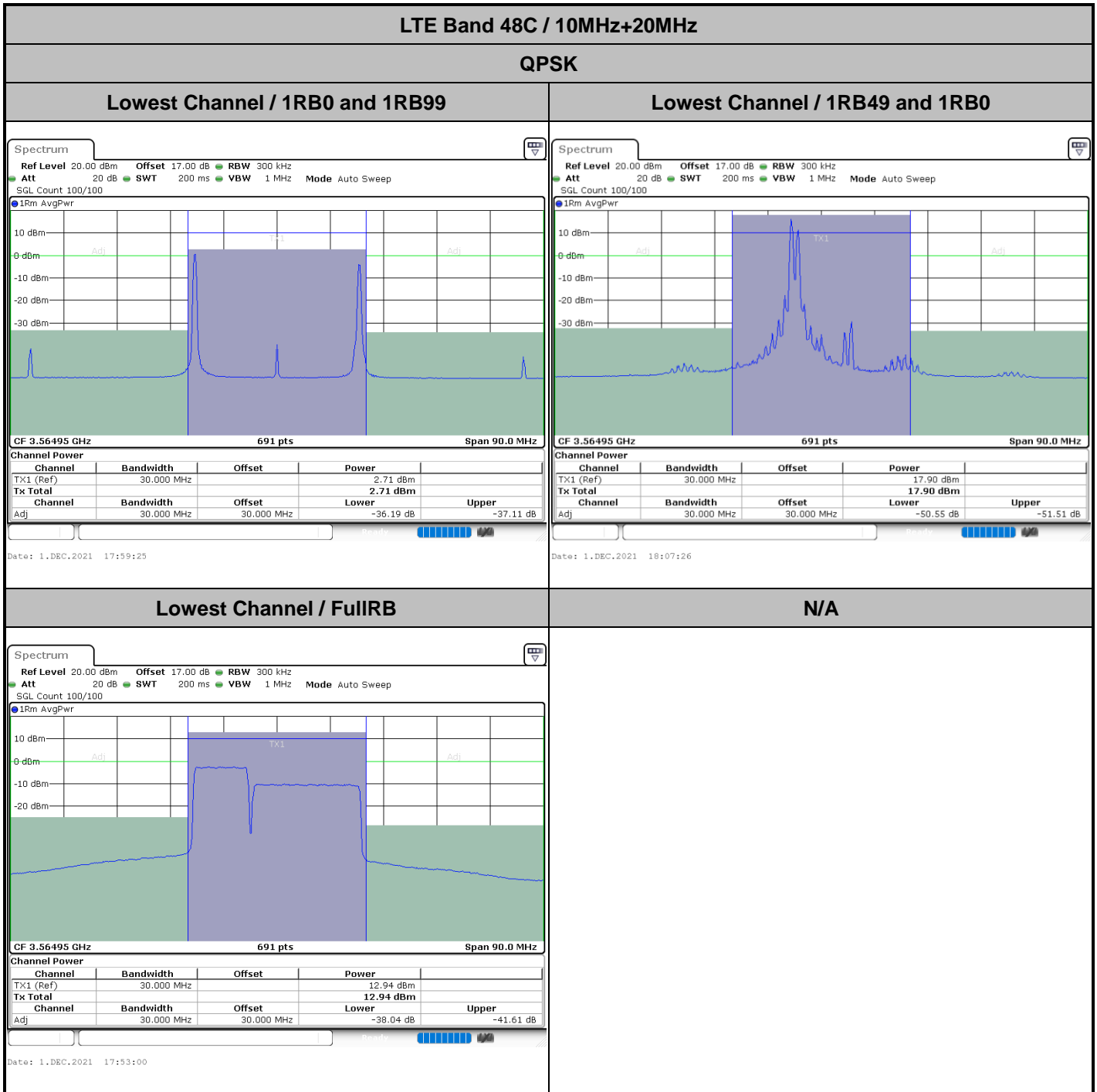
N/A

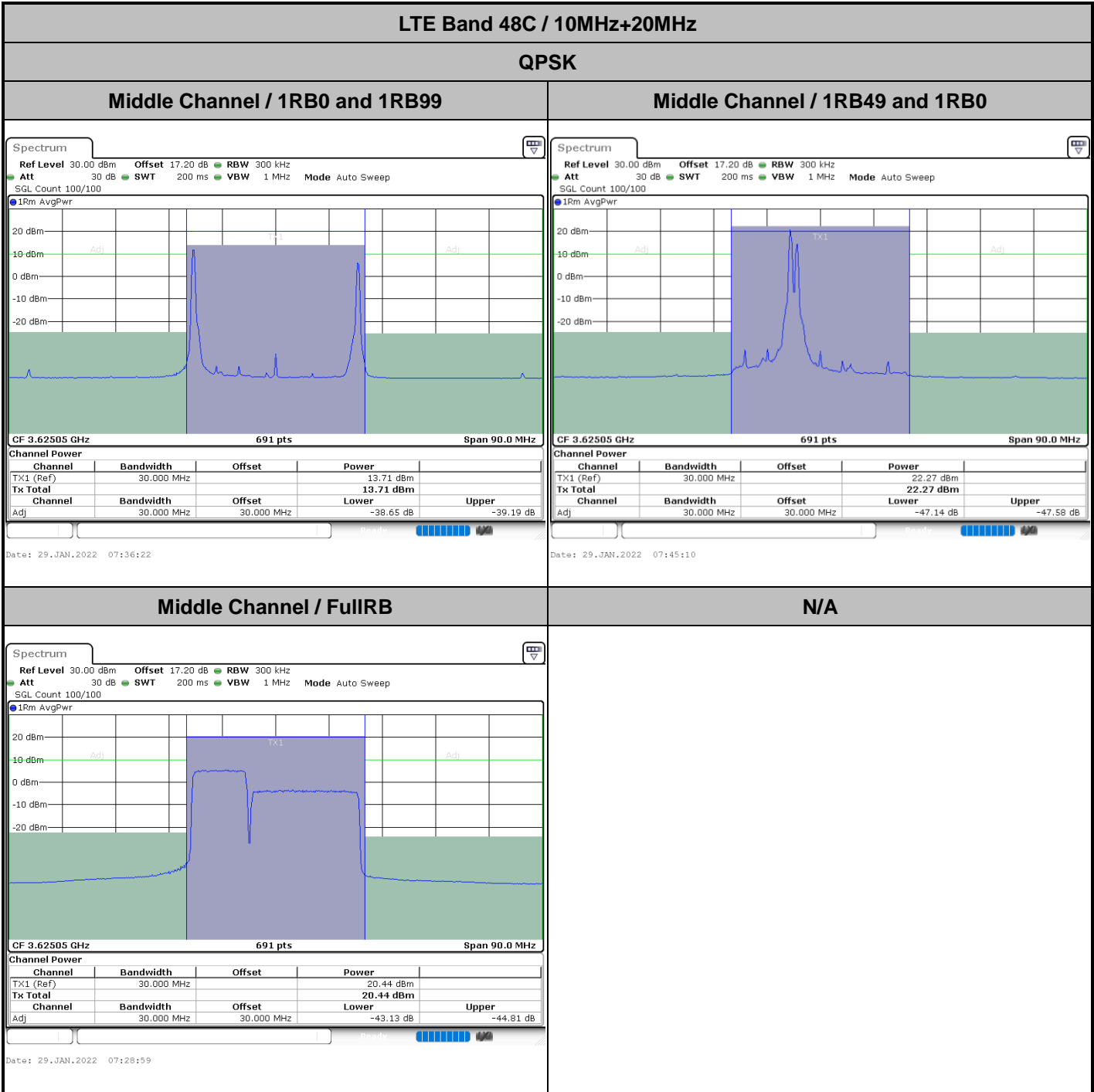


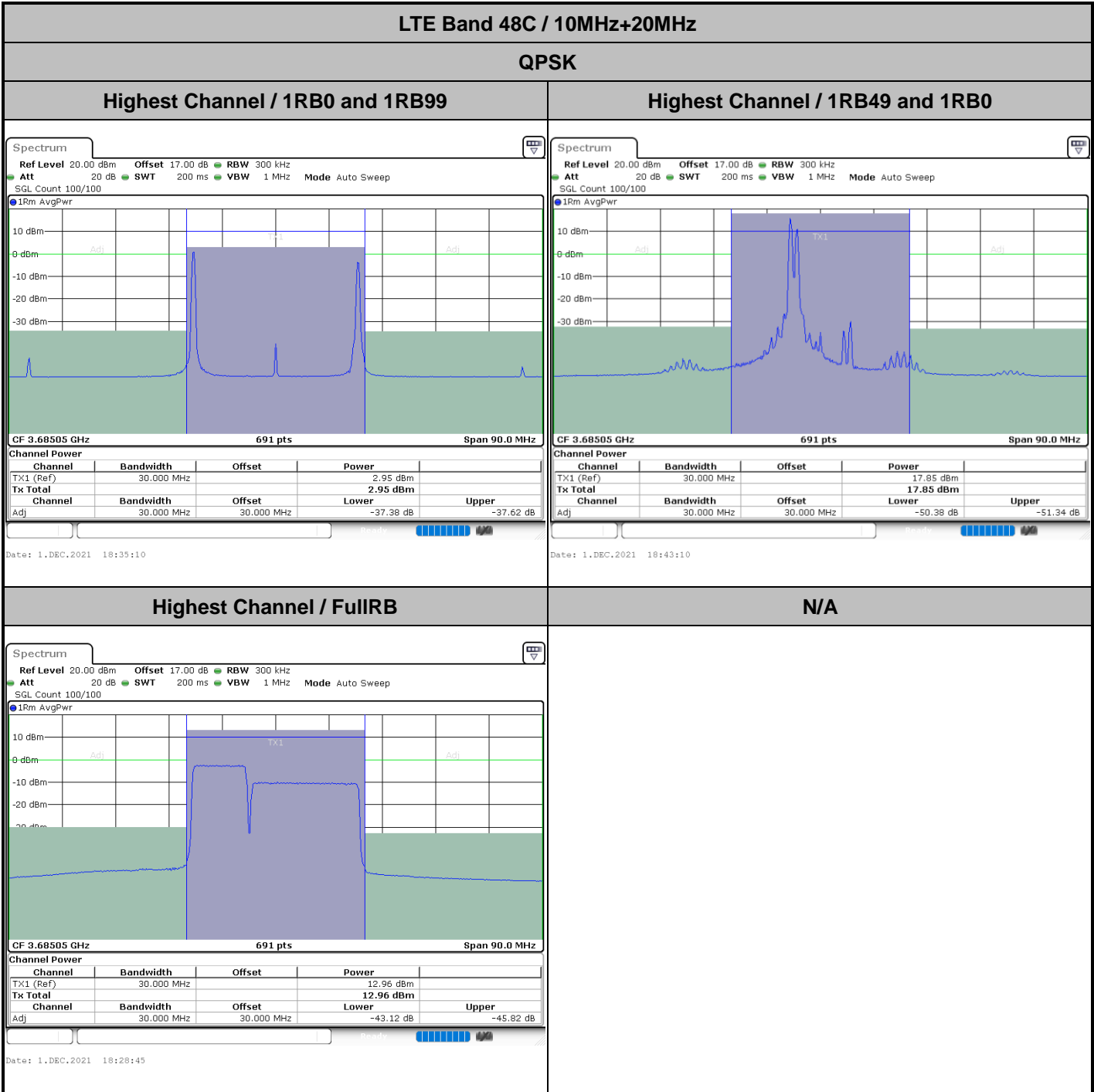
Date: 29.JAN.2022 05:46:09



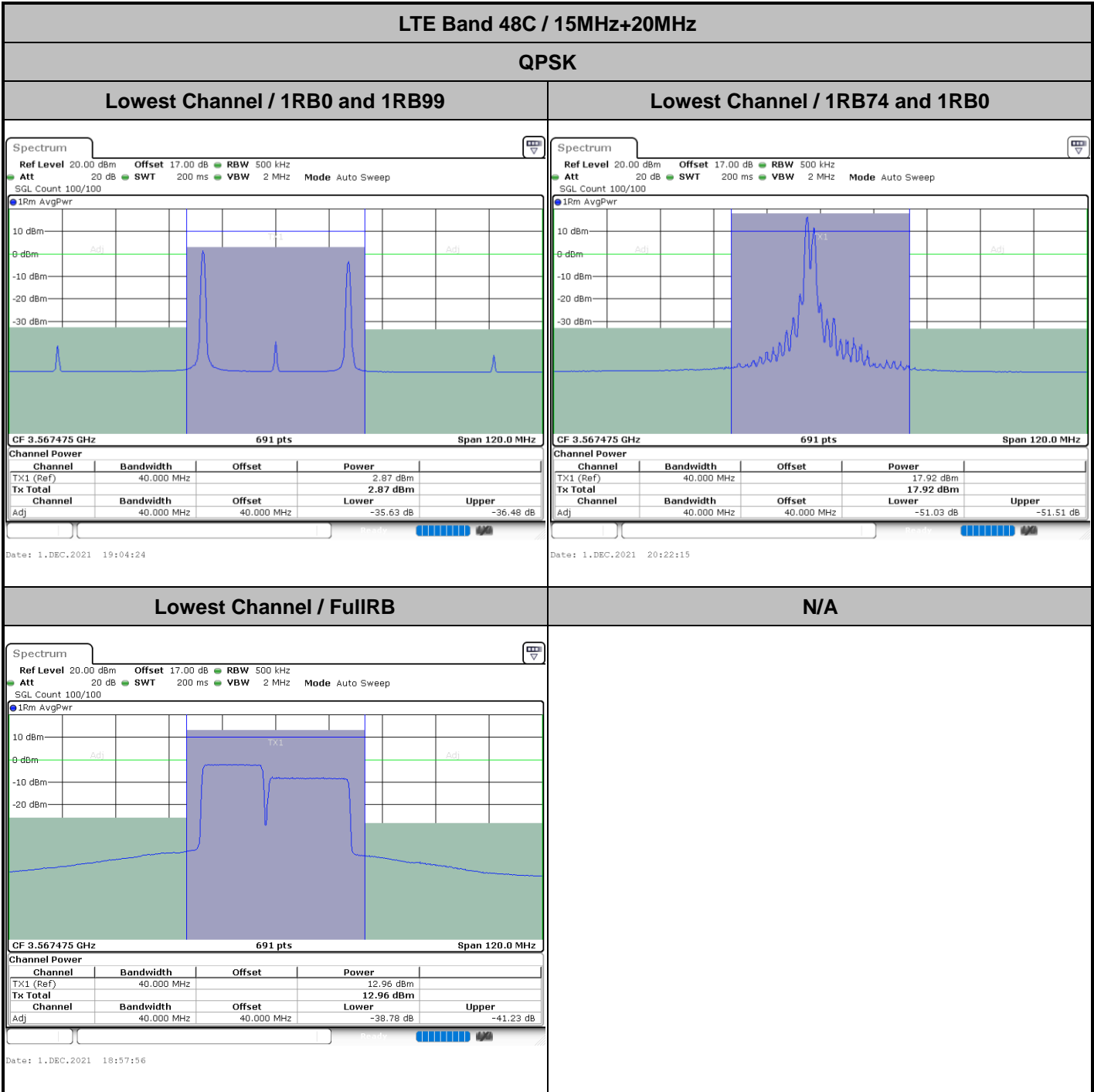












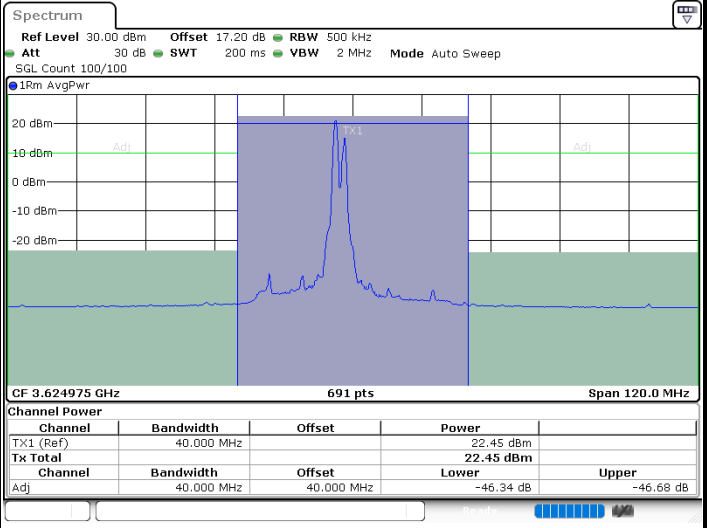
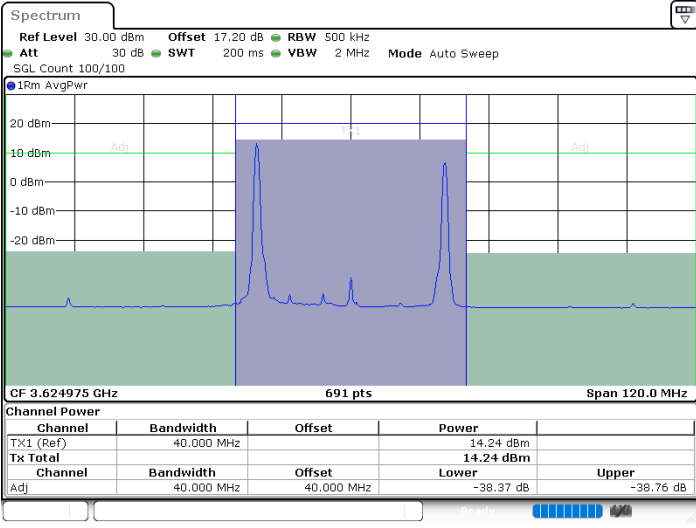


LTE Band 48C / 15MHz+20MHz

QPSK

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB74 and 1RB0

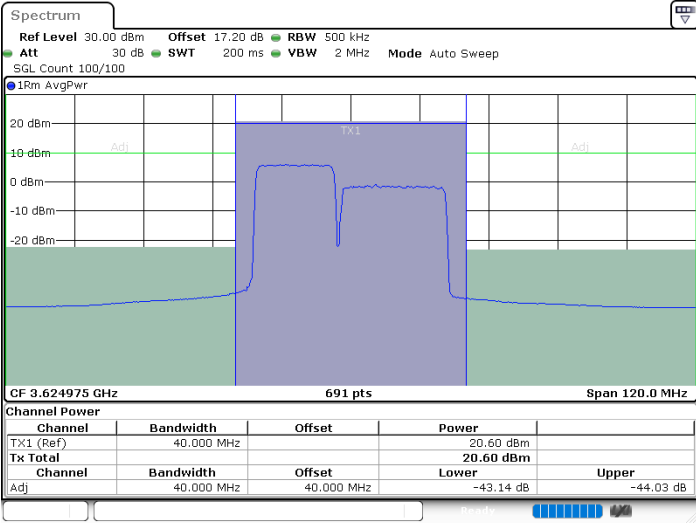


Date: 29.JAN.2022 11:01:43

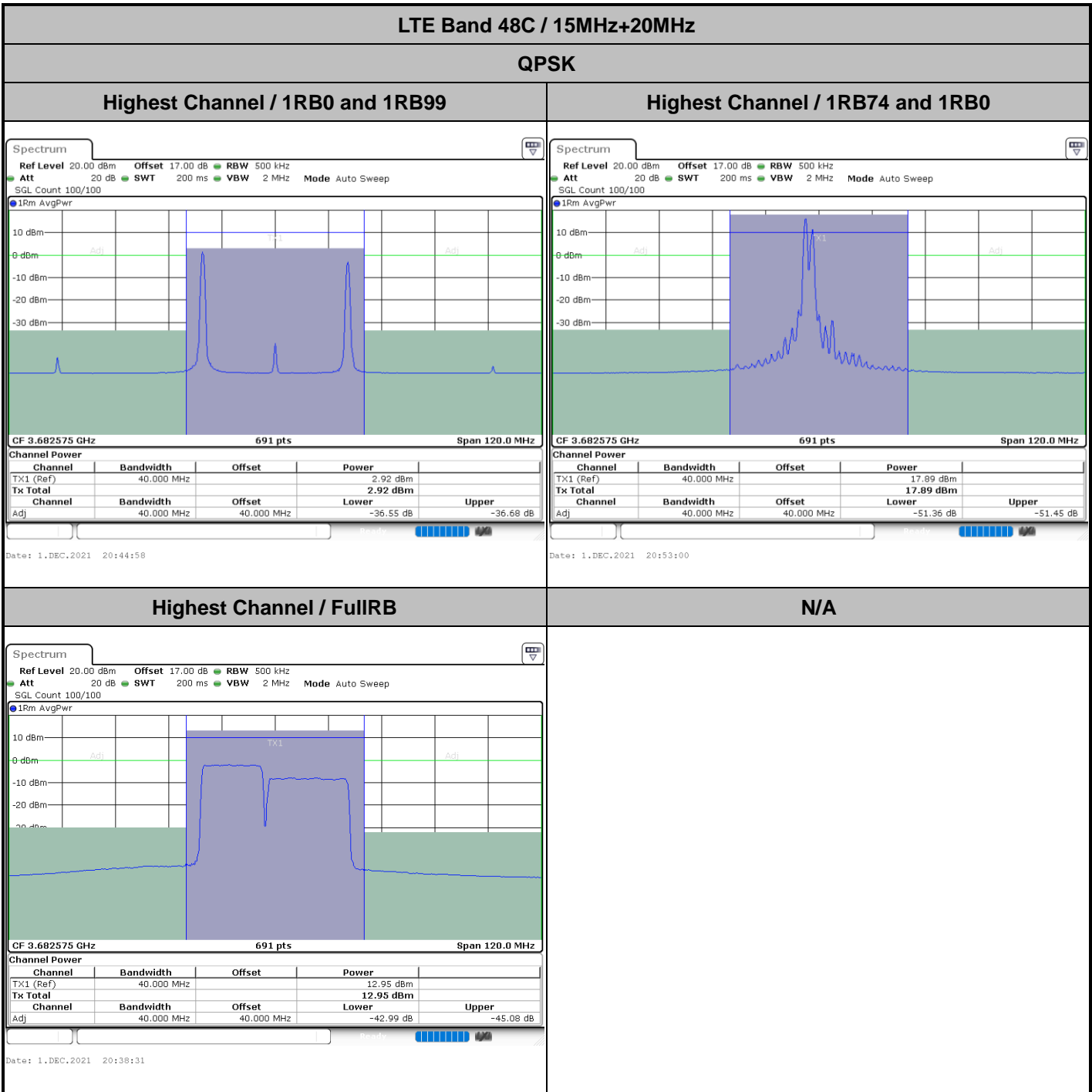
Date: 29.JAN.2022 11:10:38

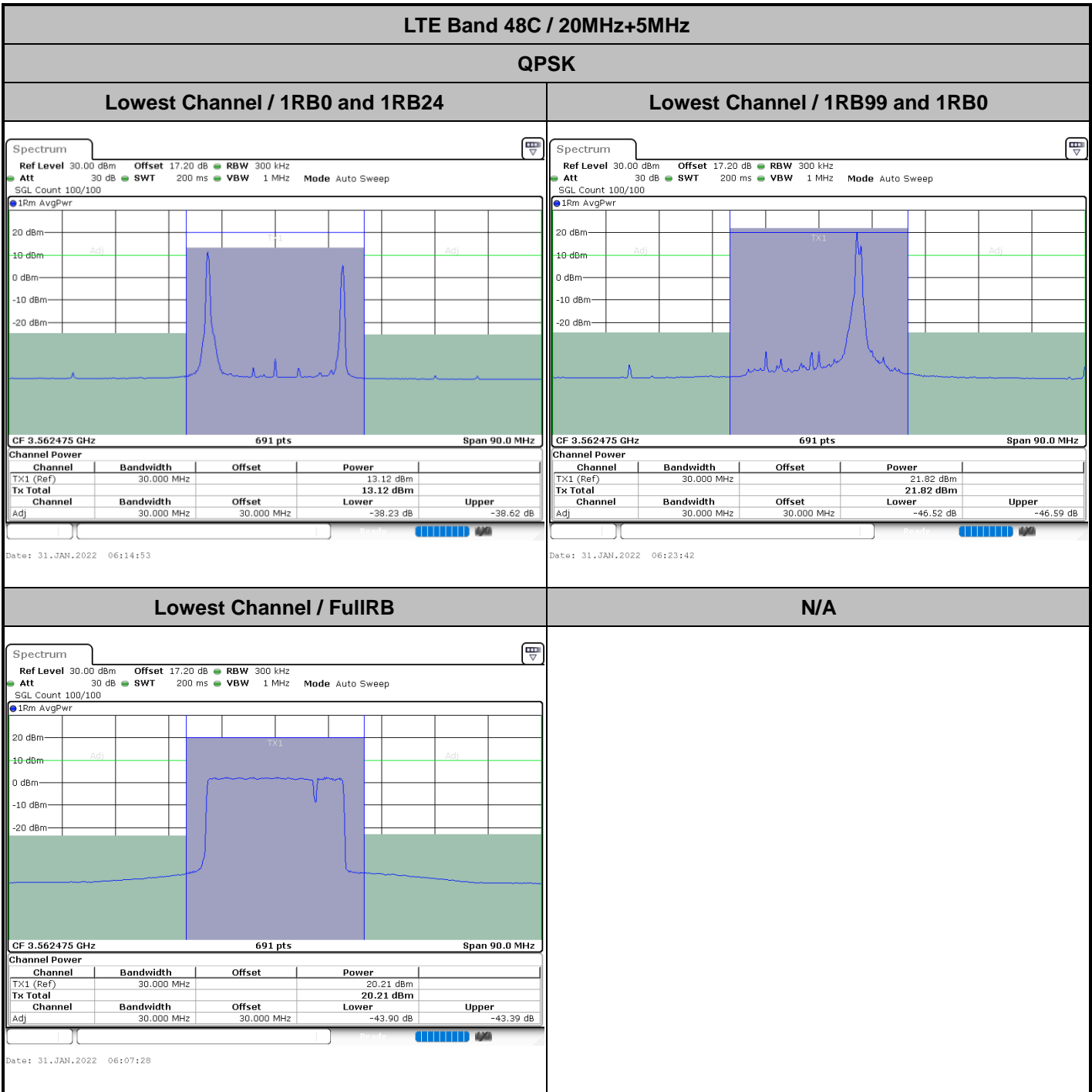
Middle Channel / FullRB

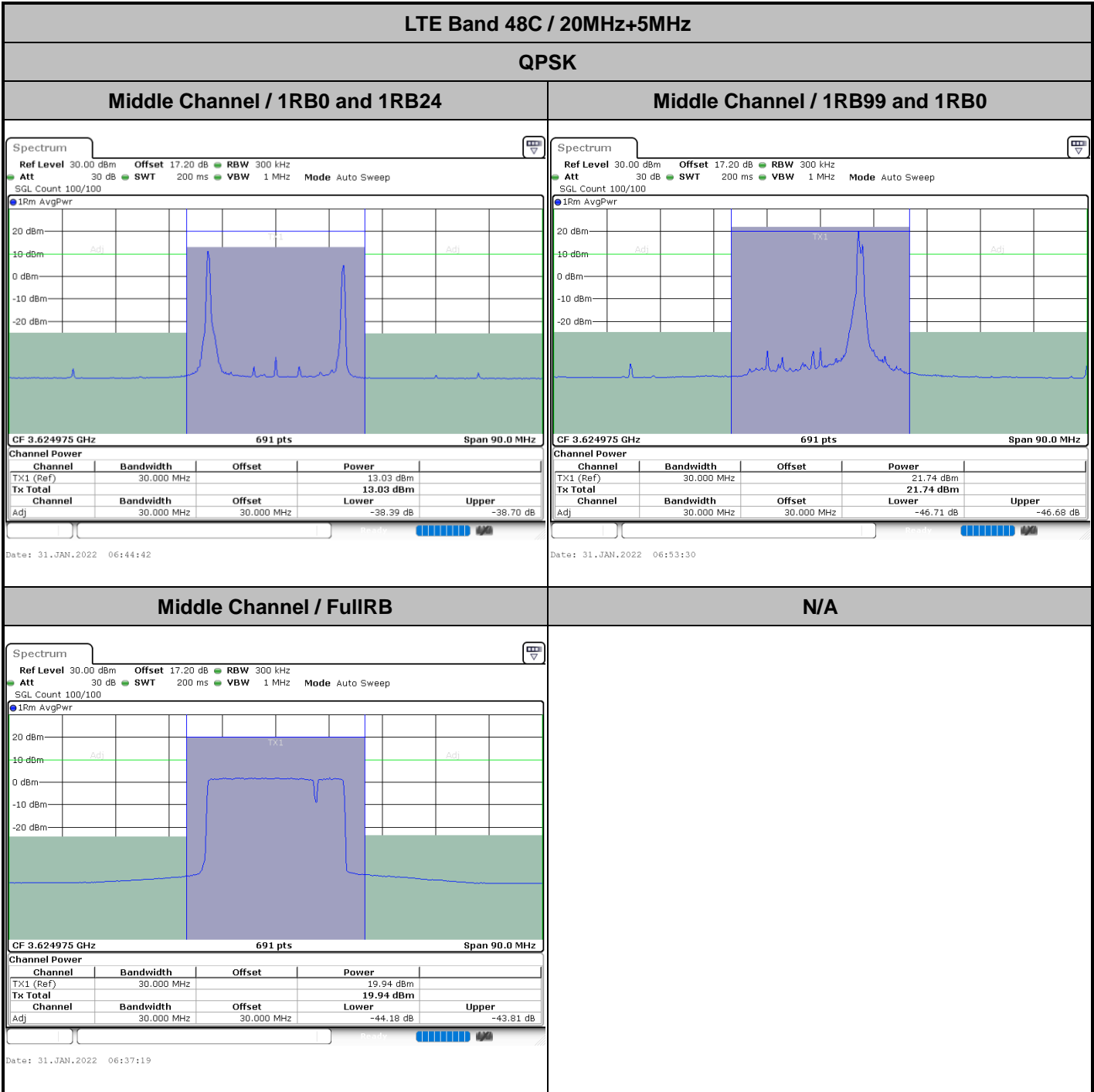
N/A

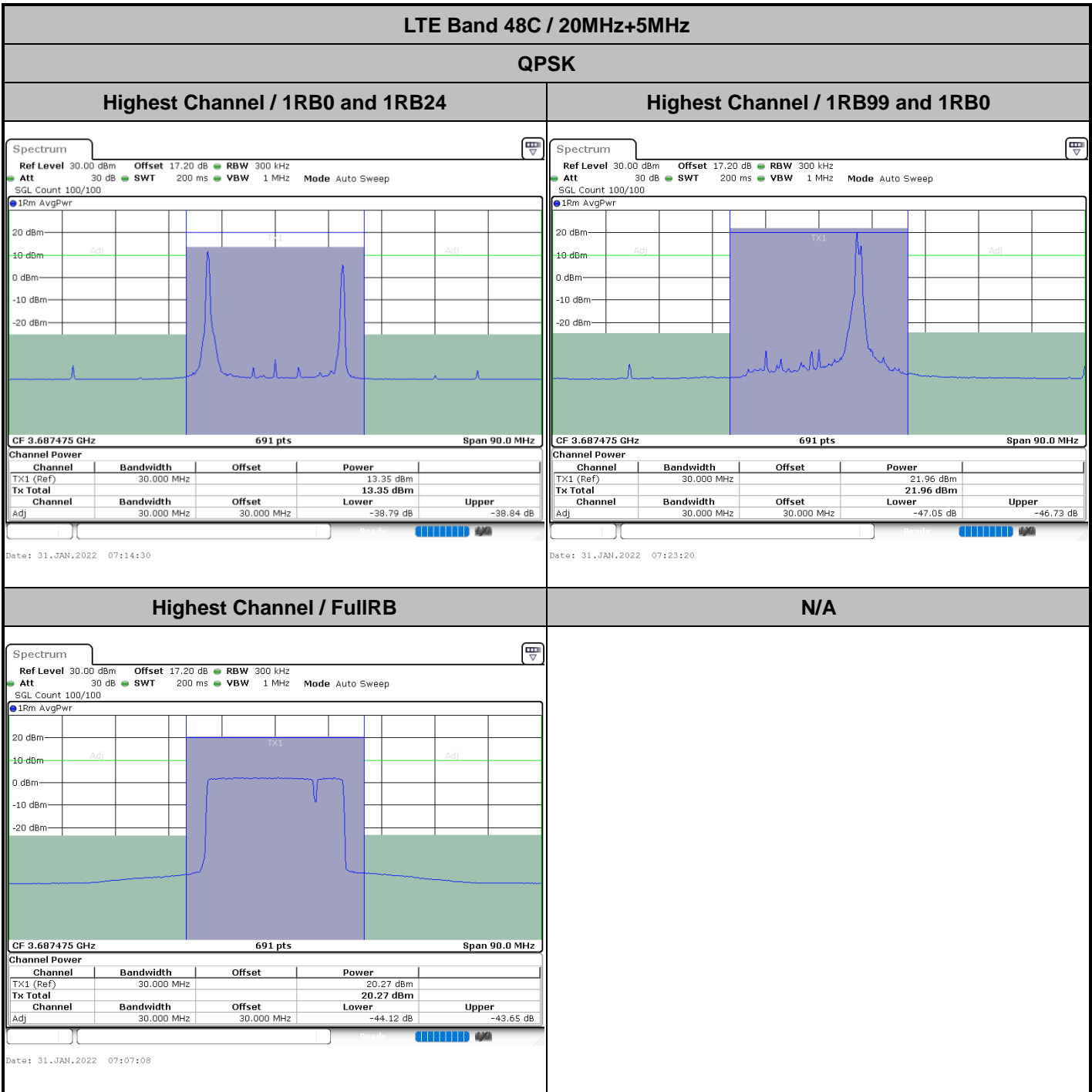


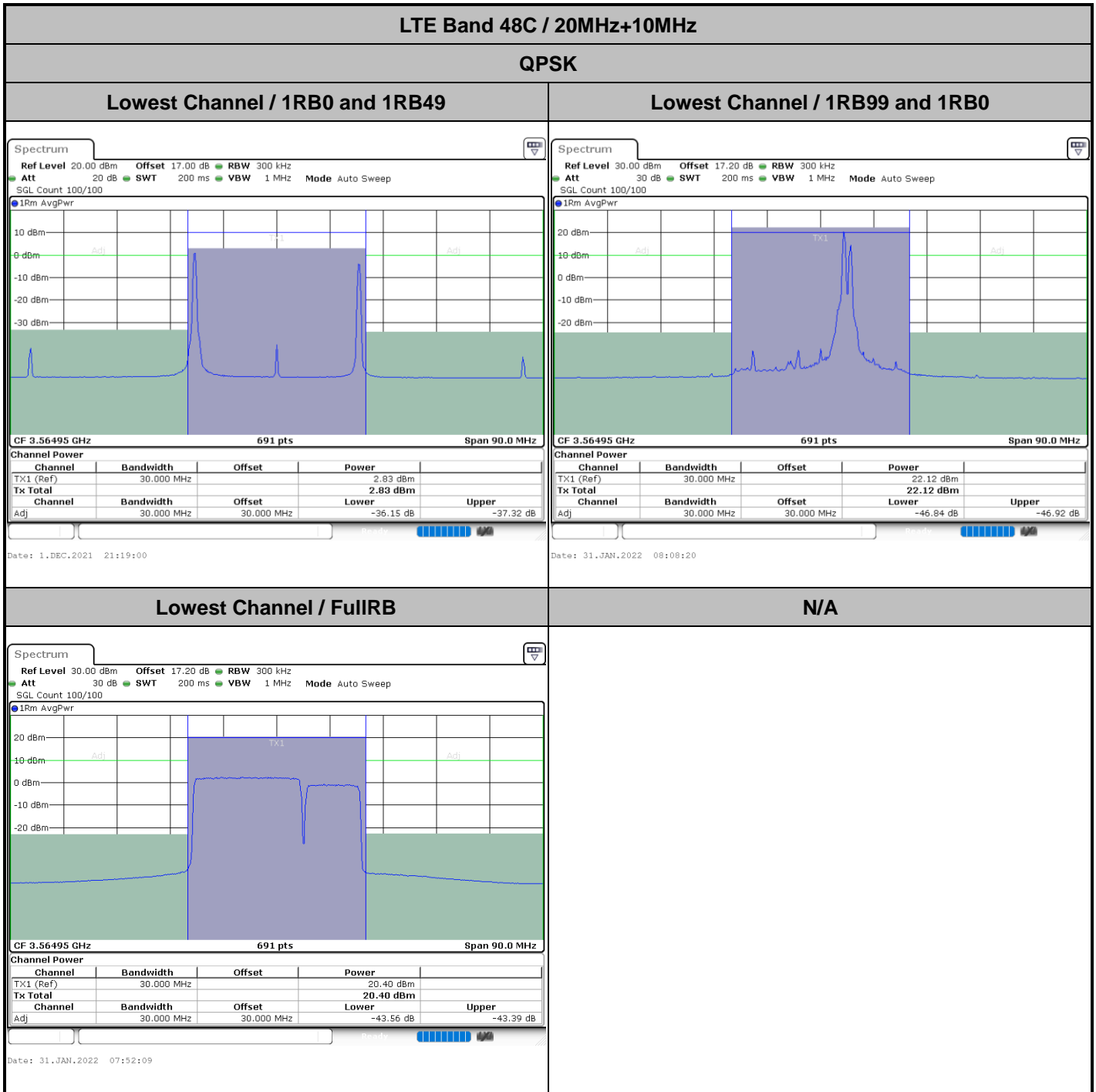
Date: 29.JAN.2022 10:54:15

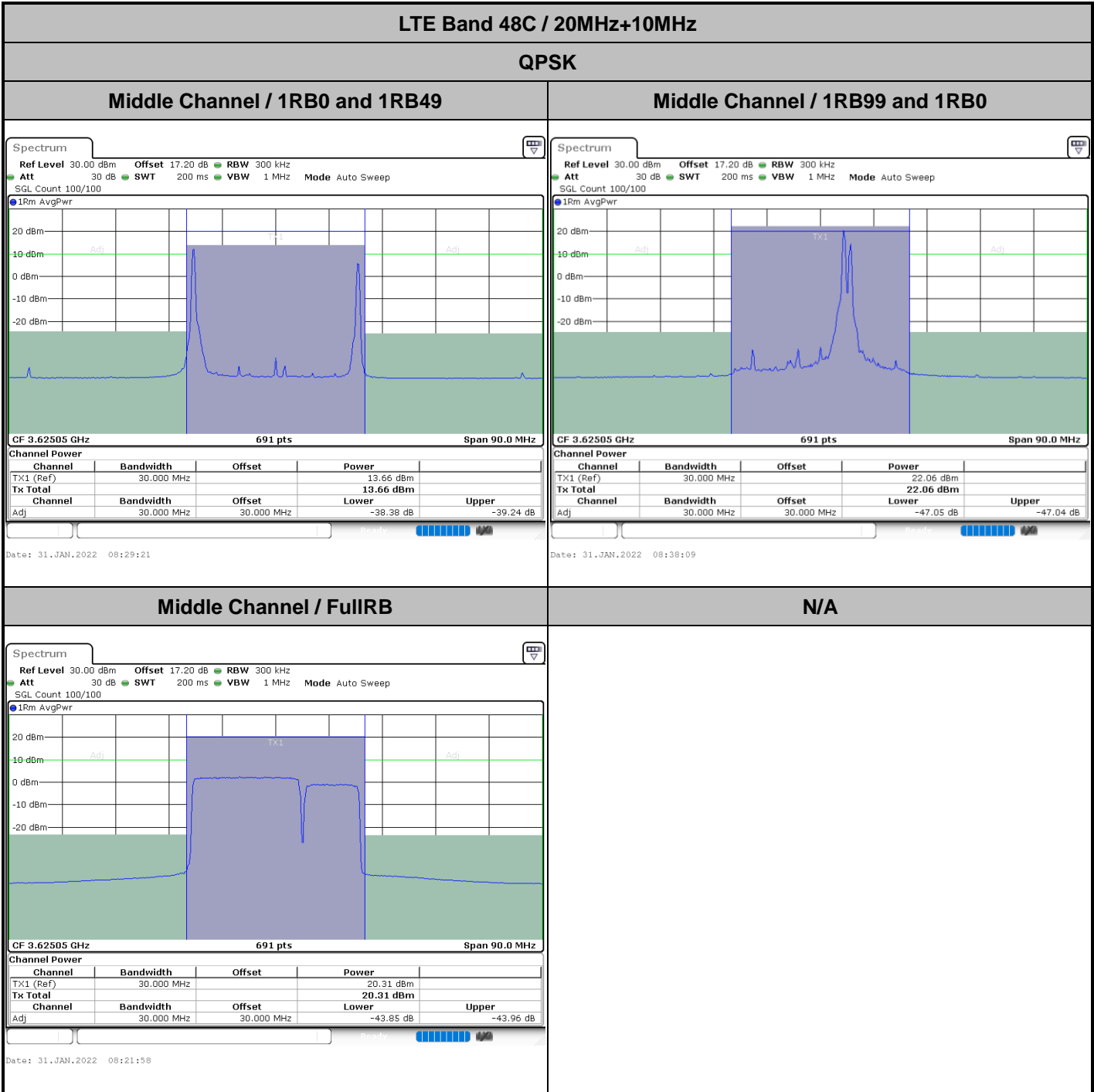












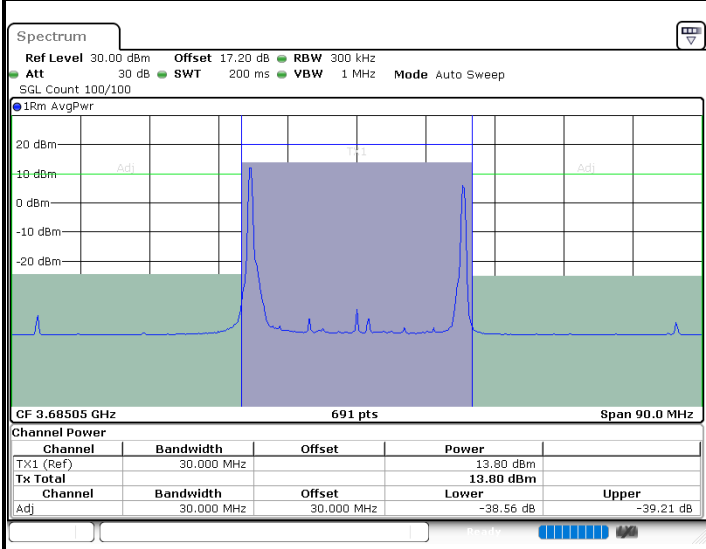




**LTE Band 48C / 20MHz+10MHz**

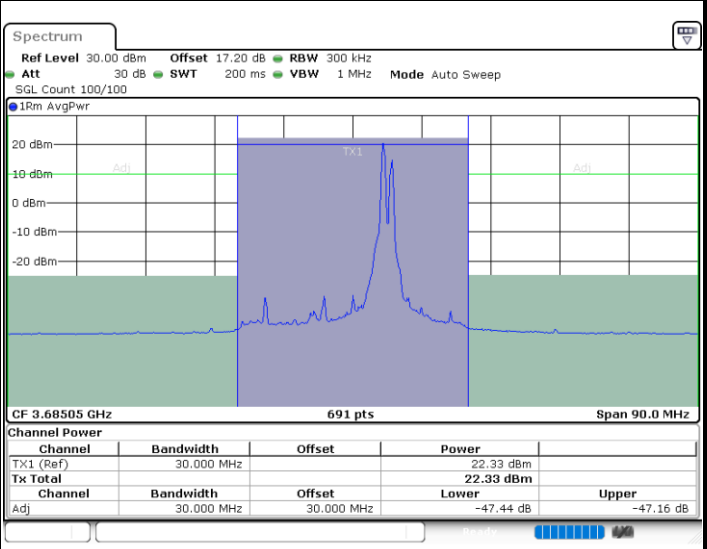
**QPSK**

**Highest Channel / 1RB0 and 1RB49**



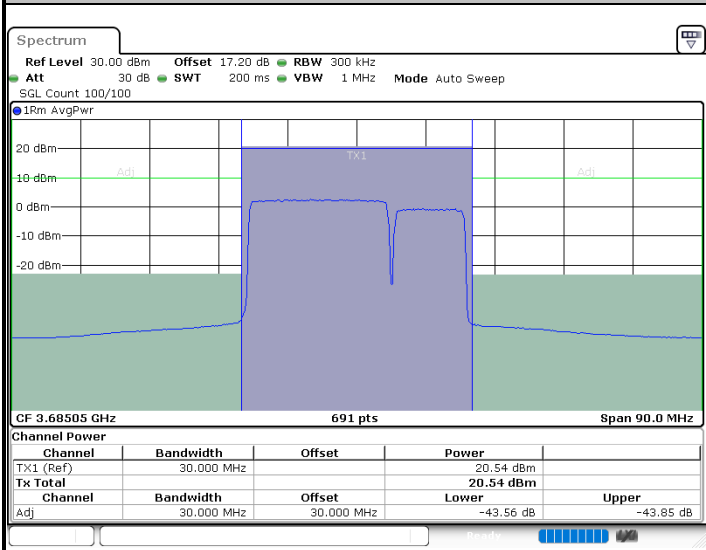
Date: 31.JAN.2022 08:59:09

**Highest Channel / 1RB99 and 1RB0**



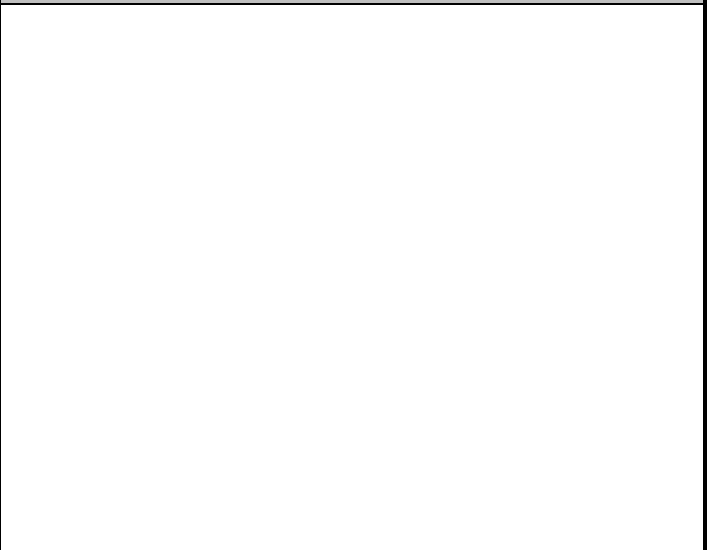
Date: 31.JAN.2022 09:07:58

**Highest Channel / FullRB**



Date: 31.JAN.2022 08:51:47

**N/A**



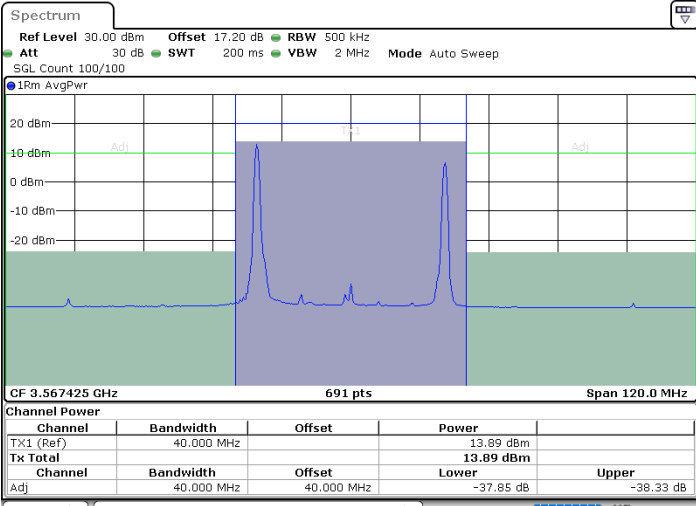


LTE Band 48C / 20MHz+15MHz

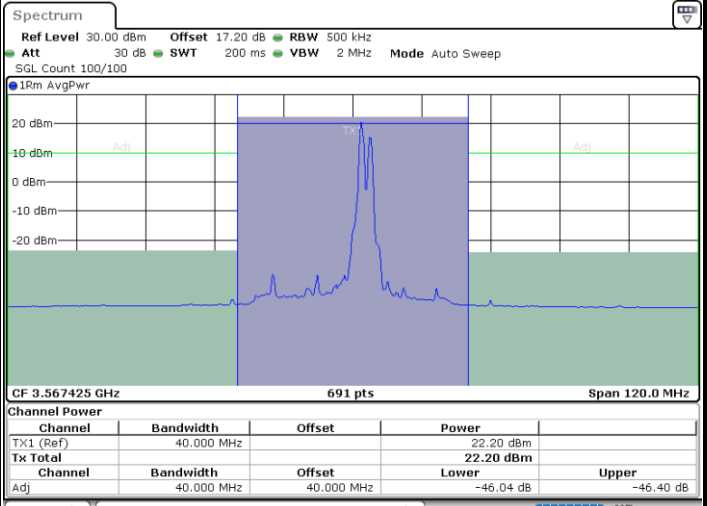
QPSK

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0



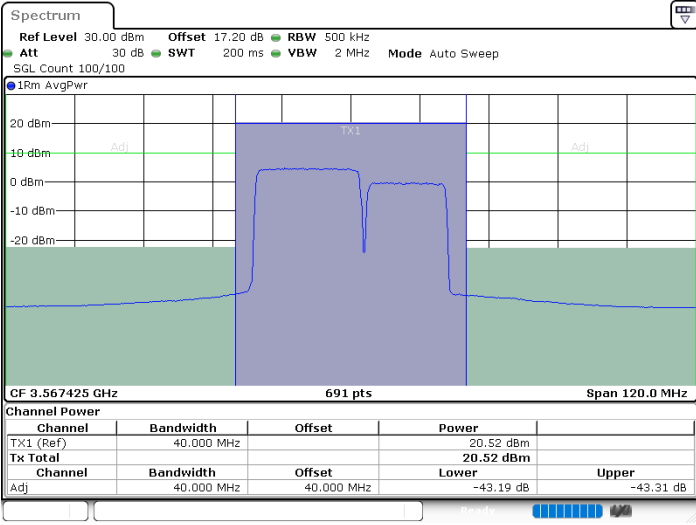
Date: 31.JAN.2022 09:36:20



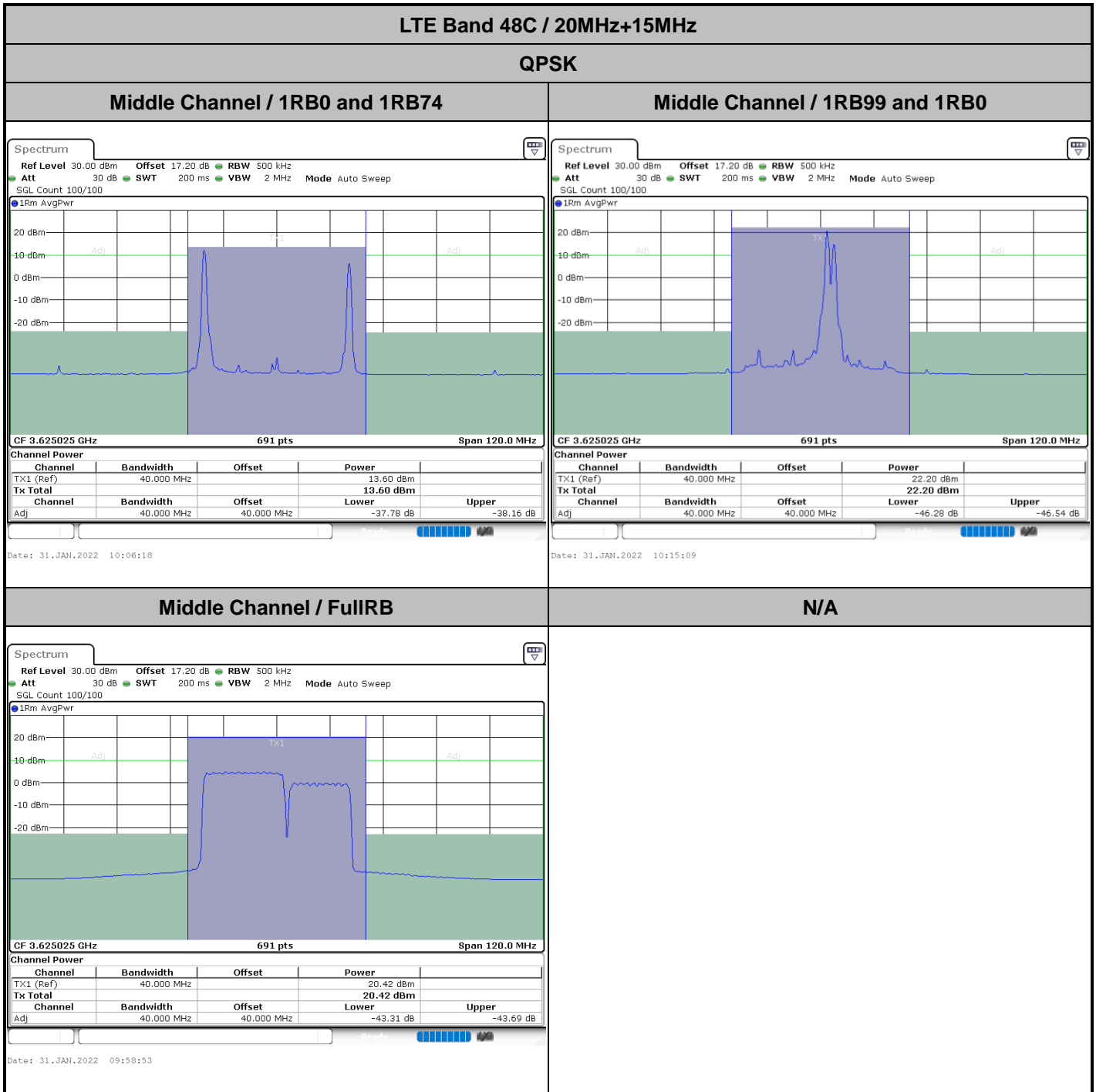
Date: 31.JAN.2022 09:45:13

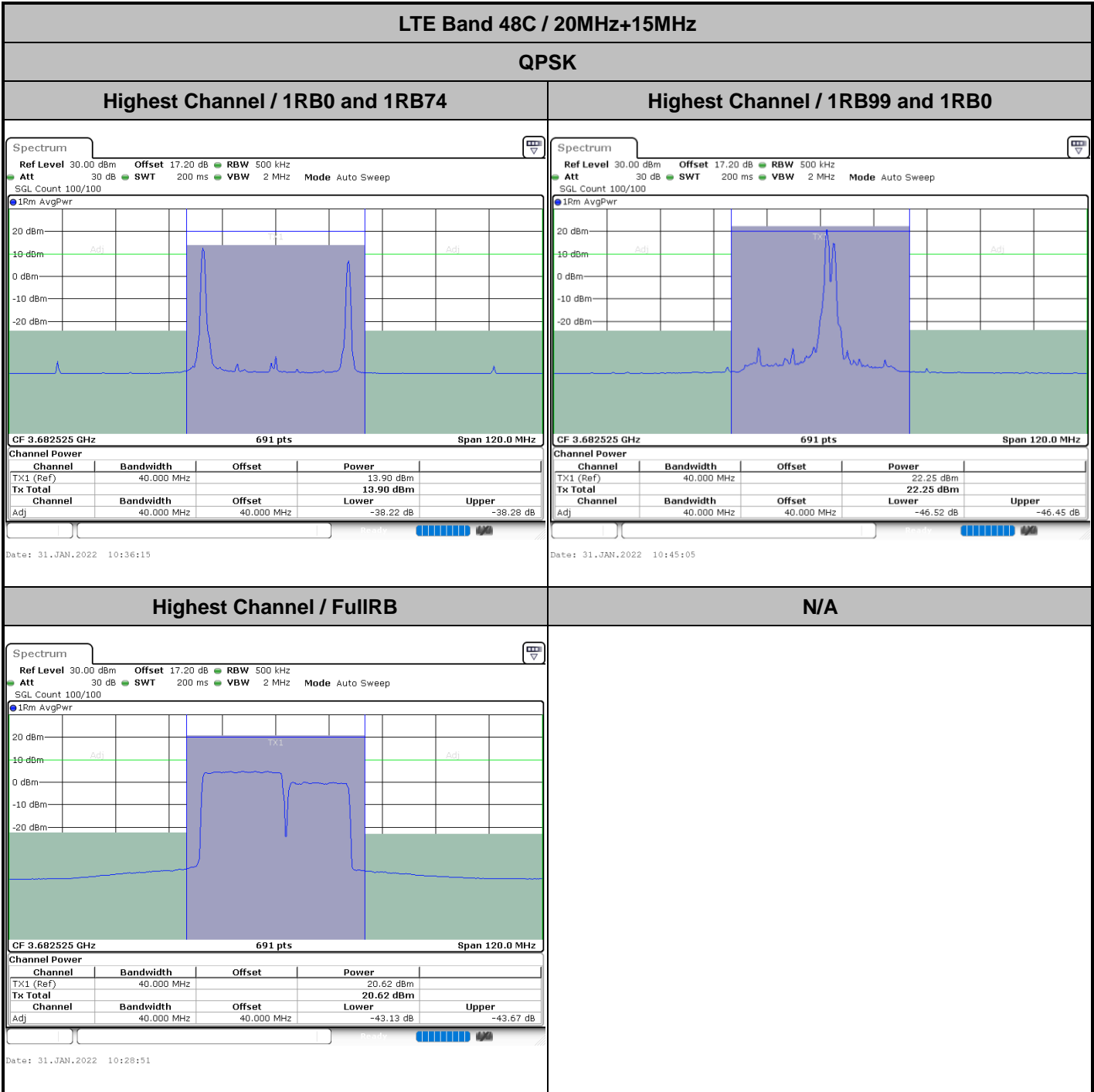
Lowest Channel / FullIRB

N/A



Date: 31.JAN.2022 09:28:55



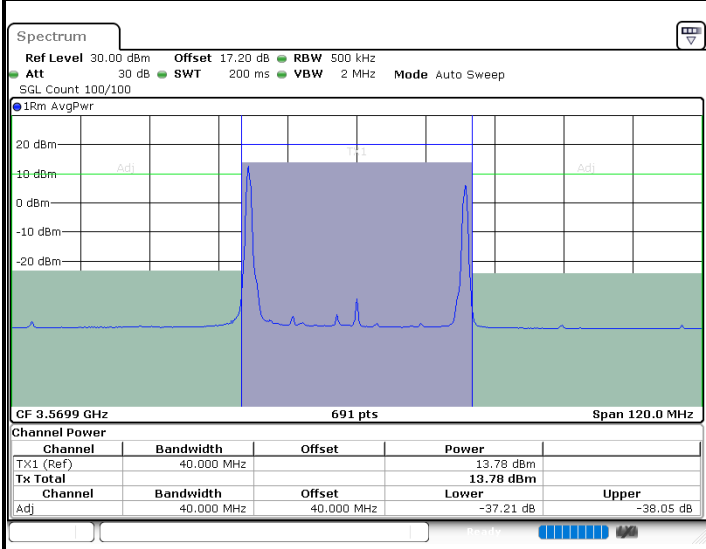




**LTE Band 48C / 20MHz+20MHz**

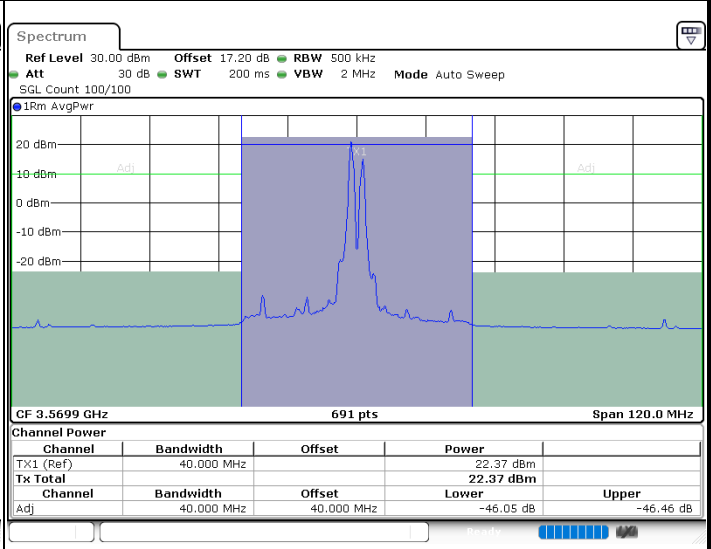
**QPSK**

**Lowest Channel / 1RB0 and 1RB99**



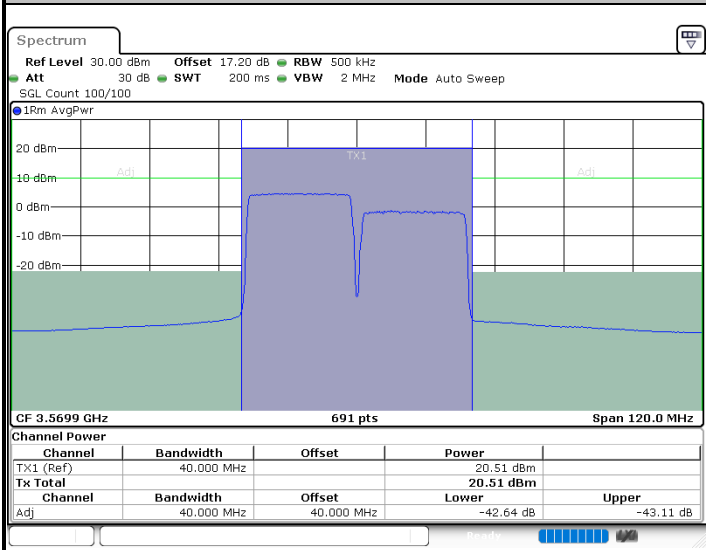
Date: 29.JAN.2022 03:16:20

**Lowest Channel / 1RB99 and 1RB0**



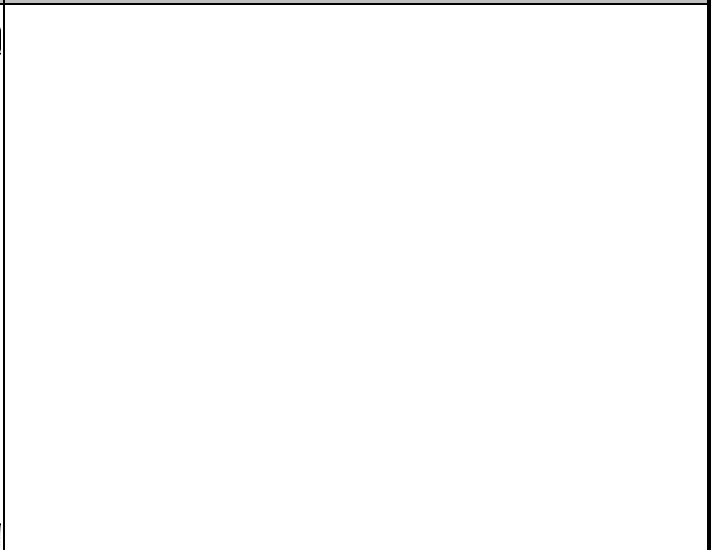
Date: 29.JAN.2022 03:25:10

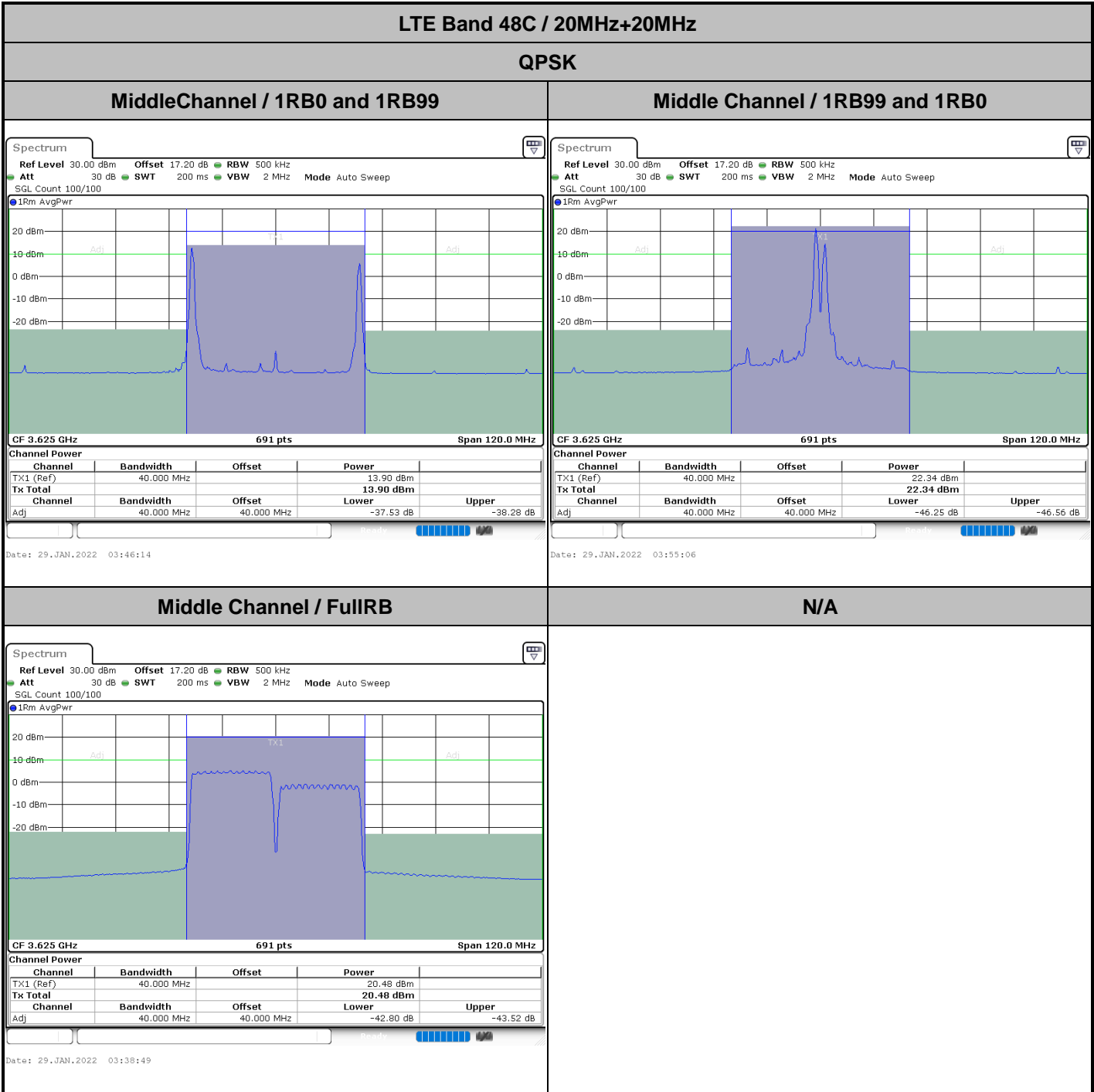
**Lowest Channel / FullIRB**



Date: 29.JAN.2022 03:08:56

**N/A**





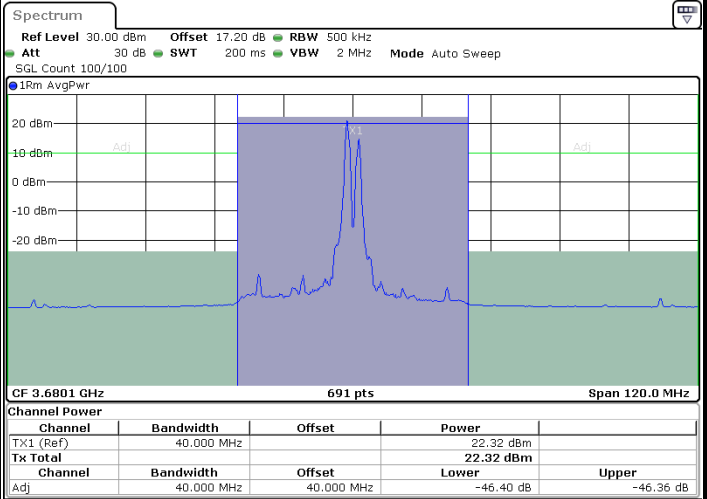
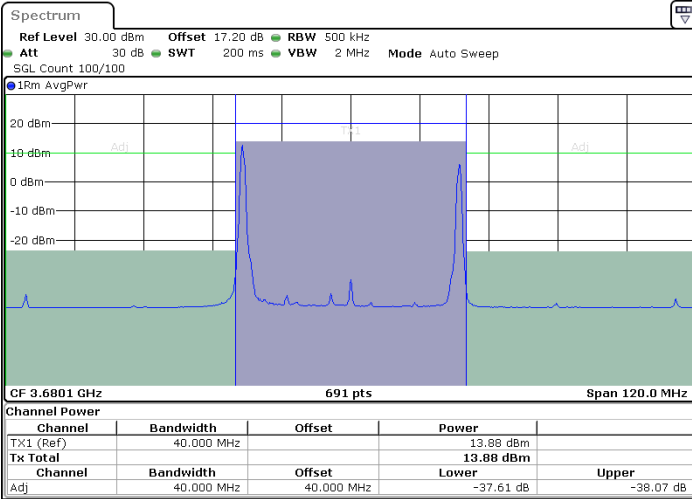


LTE Band 48C / 20MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0

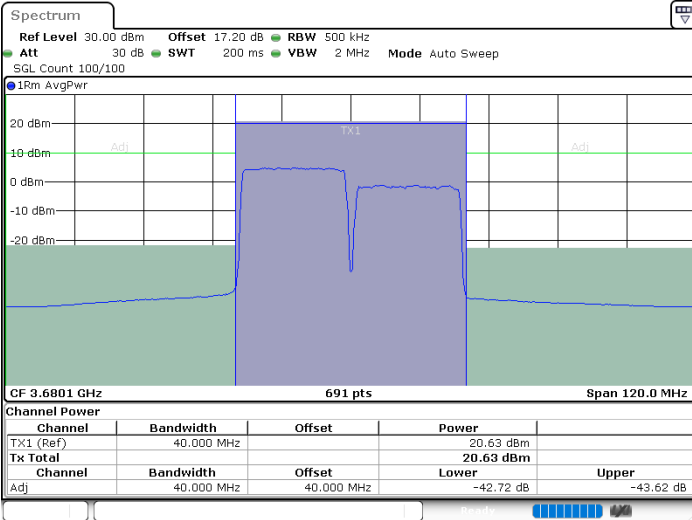


Date: 29.JAN.2022 02:46:30

Date: 29.JAN.2022 02:55:19

Highest Channel / FullRB

N/A



Date: 29.JAN.2022 02:39:06

