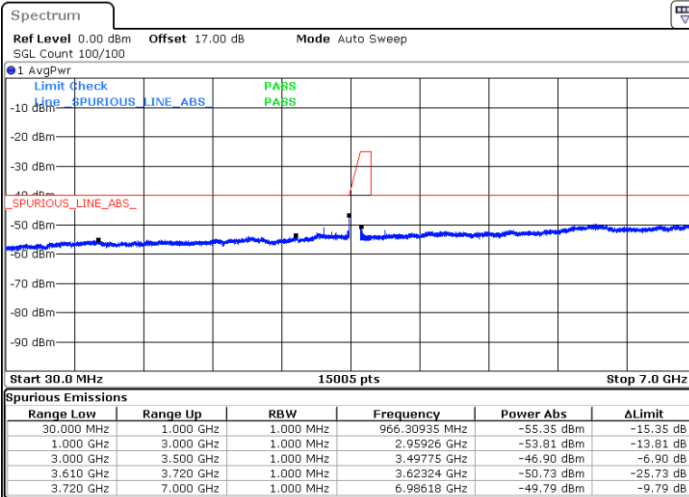




Conducted Spurious Emission

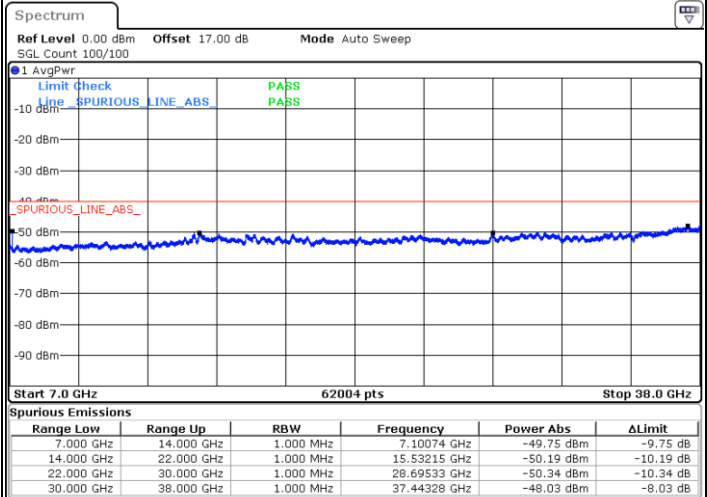
LTE Band 48 / 5MHz

Lowest Channel / QPSK / 1RB0



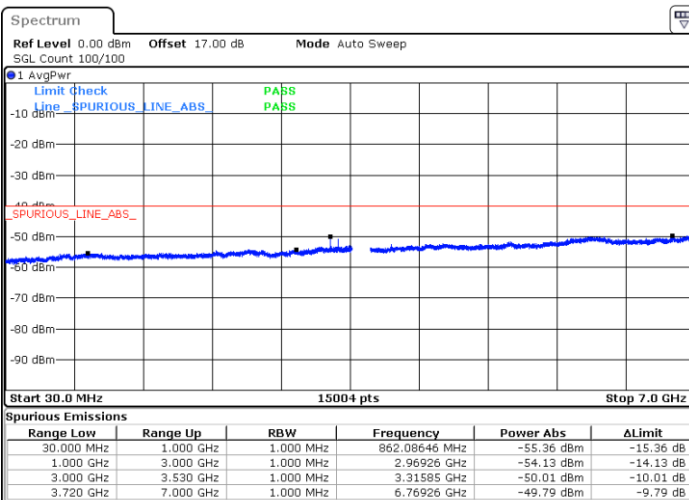
Date: 6.DEC.2021 20:48:29

Lowest Channel / QPSK / 1RB0



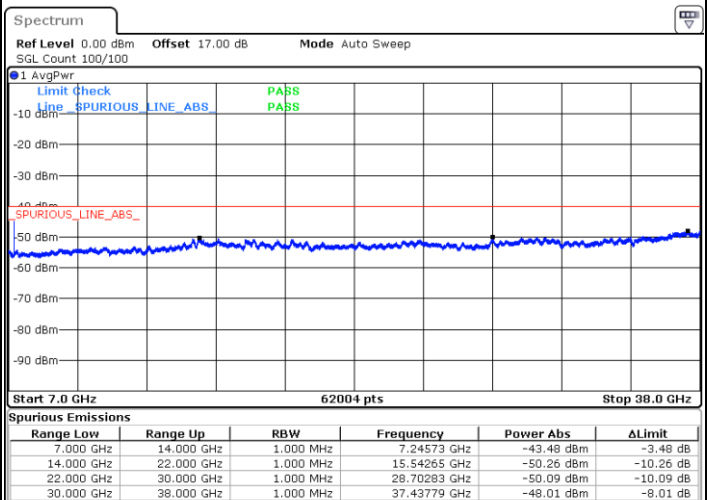
Date: 6.DEC.2021 20:49:39

Middle Channel / QPSK / 1RB0



Date: 6.DEC.2021 21:00:29

Middle Channel / QPSK / 1RB0



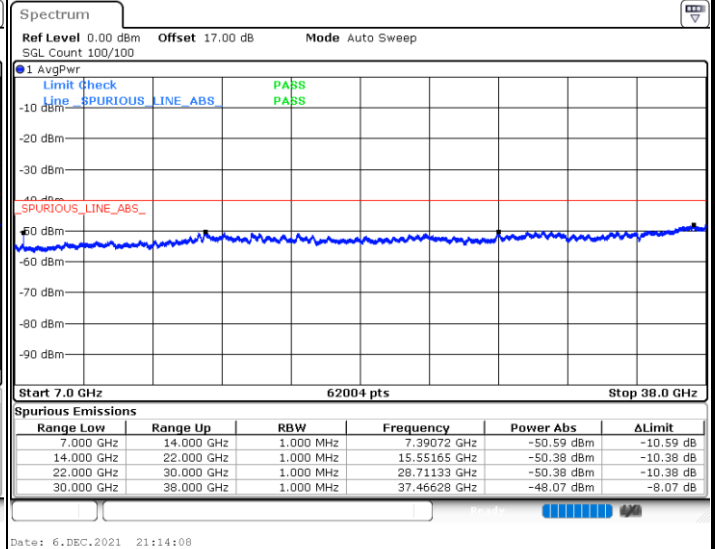
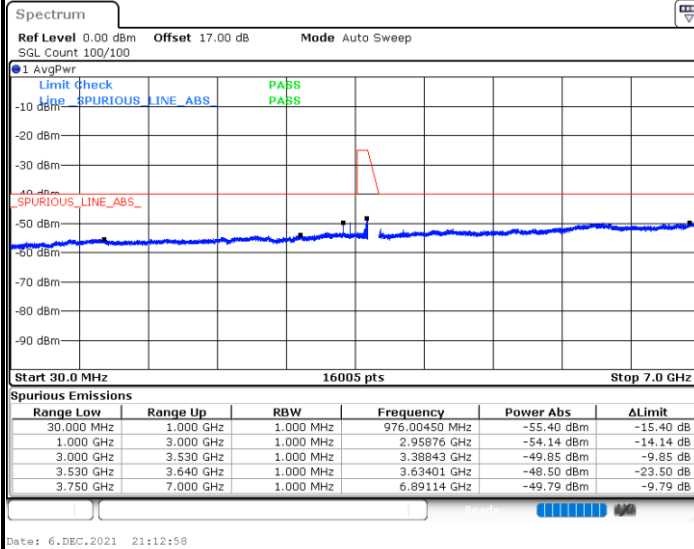
Date: 6.DEC.2021 21:01:37



LTE Band 48 / 5MHz

Highest Channel / QPSK / 1RB0

Highest Channel / QPSK / 1RB0

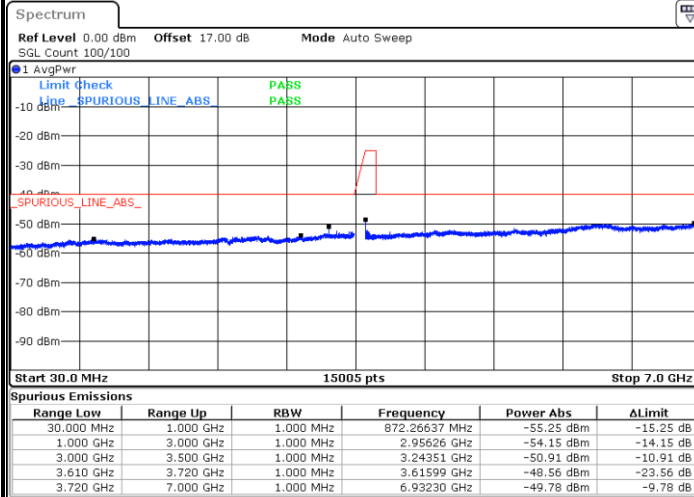




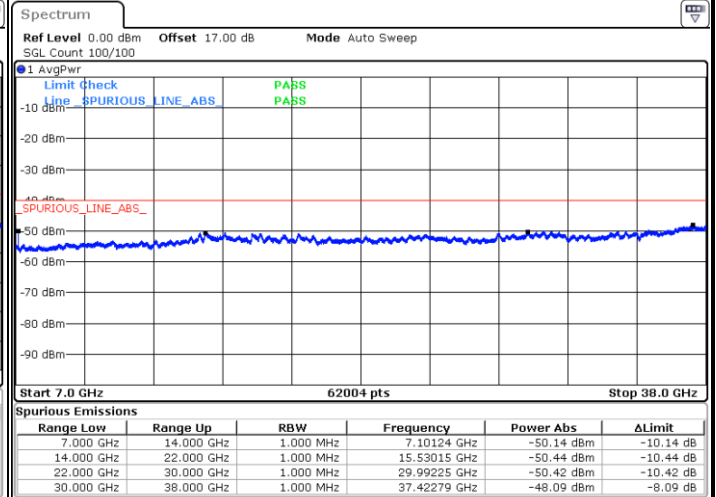
LTE Band 48 / 10MHz

Lowest Channel / QPSK / 1RB0

Lowest Channel / QPSK / 1RB0



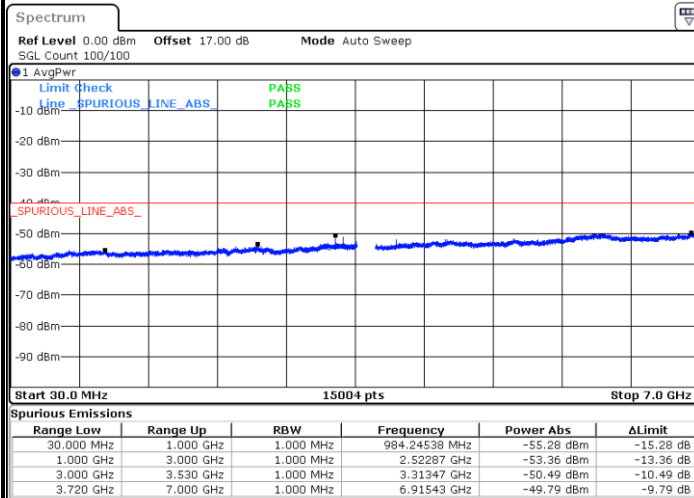
Date: 6.DEC.2021 21:37:09



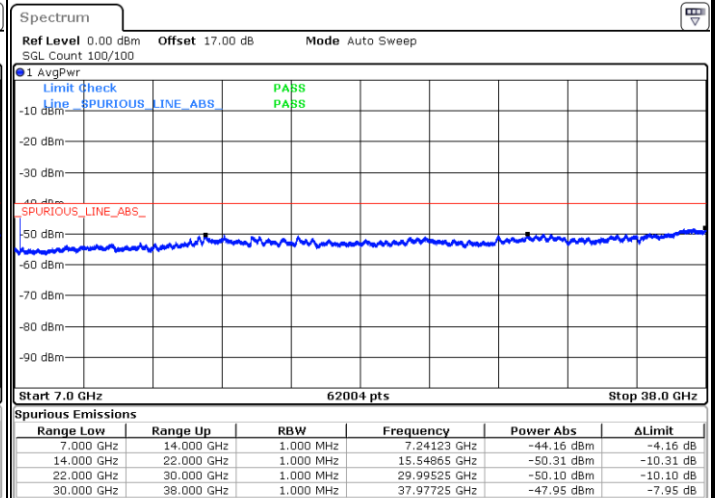
Date: 6.DEC.2021 21:38:19

Middle Channel / QPSK / 1RB0

Middle Channel / QPSK / 1RB0



Date: 6.DEC.2021 21:47:14



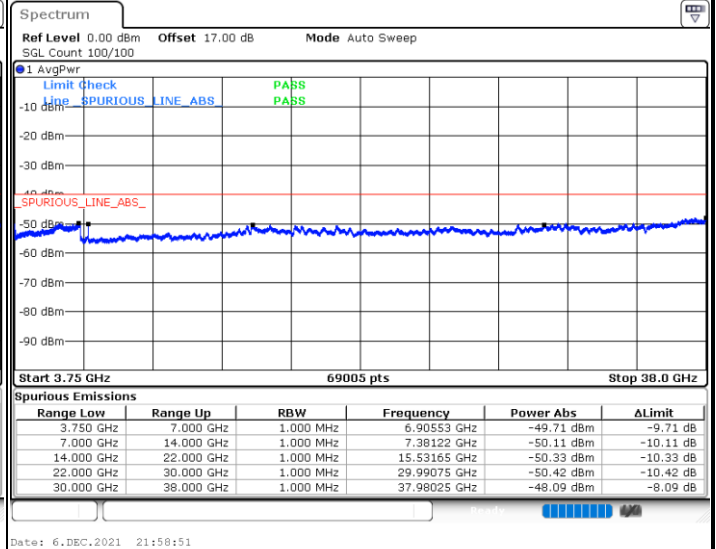
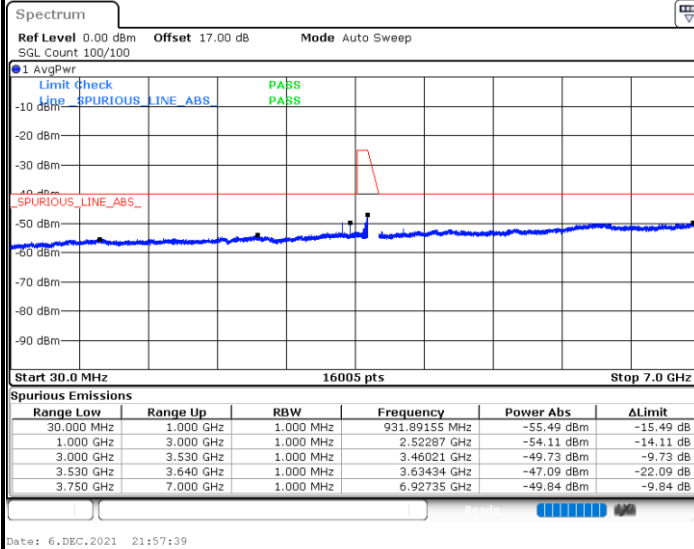
Date: 6.DEC.2021 21:48:23



LTE Band 48 / 10MHz

Highest Channel / QPSK / 1RB0

Highest Channel / QPSK / 1RB0

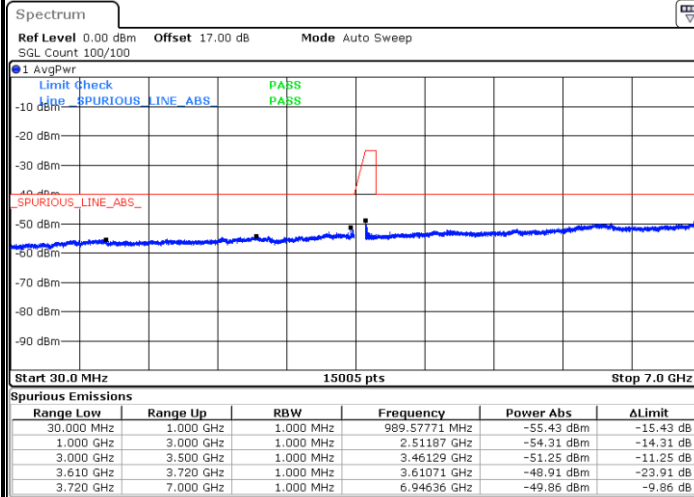




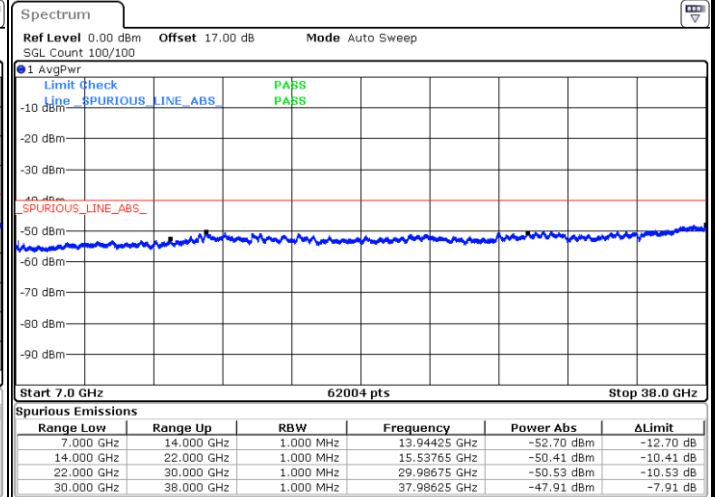
LTE Band 48 / 15MHz

Lowest Channel / QPSK / 1RB0

Lowest Channel / QPSK / 1RB0



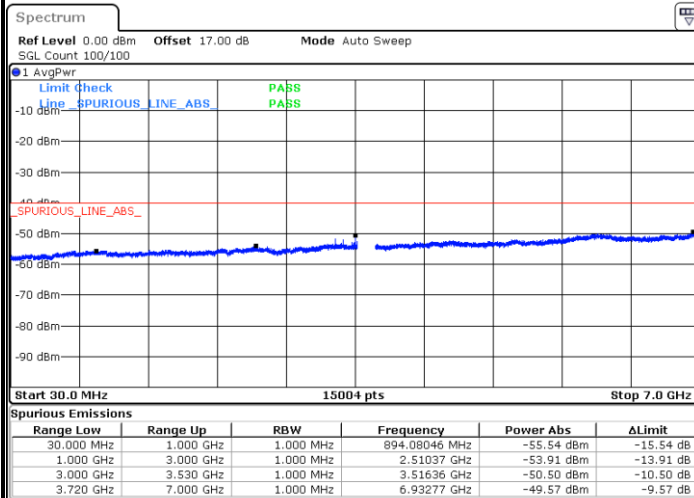
Date: 6.DEC.2021 22:09:29



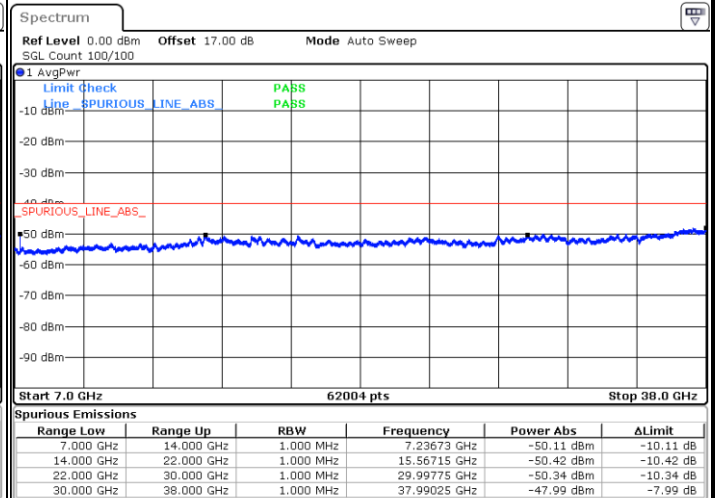
Date: 6.DEC.2021 22:10:38

Middle Channel / QPSK / 1RB0

Middle Channel / QPSK / 1RB0



Date: 6.DEC.2021 22:19:32



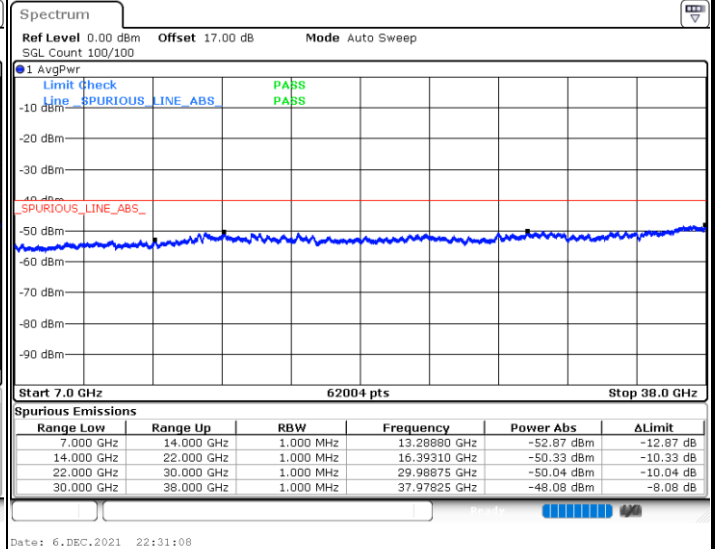
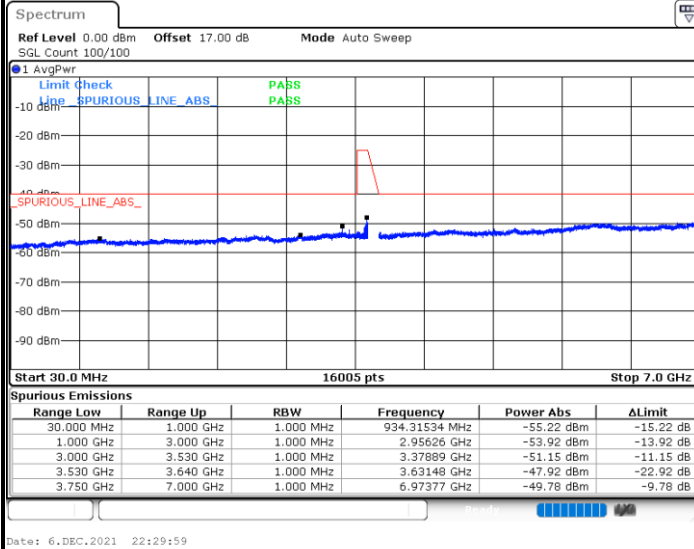
Date: 6.DEC.2021 22:20:39



LTE Band 48 / 15MHz

Highest Channel / QPSK / 1RB0

Highest Channel / QPSK / 1RB0

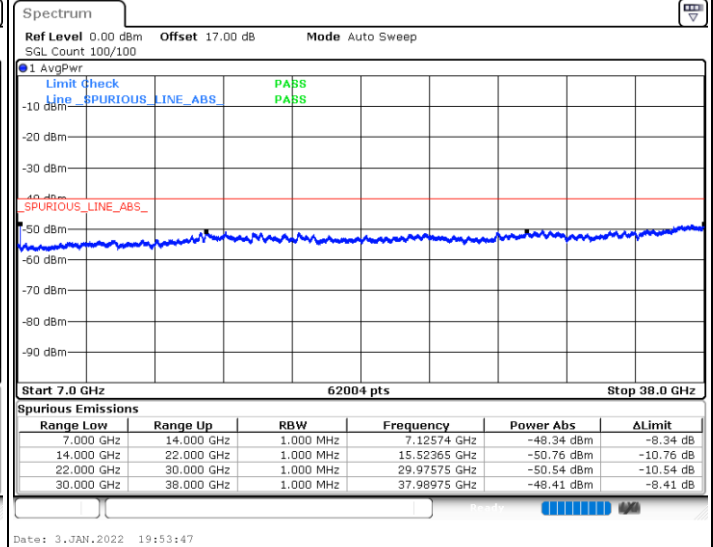
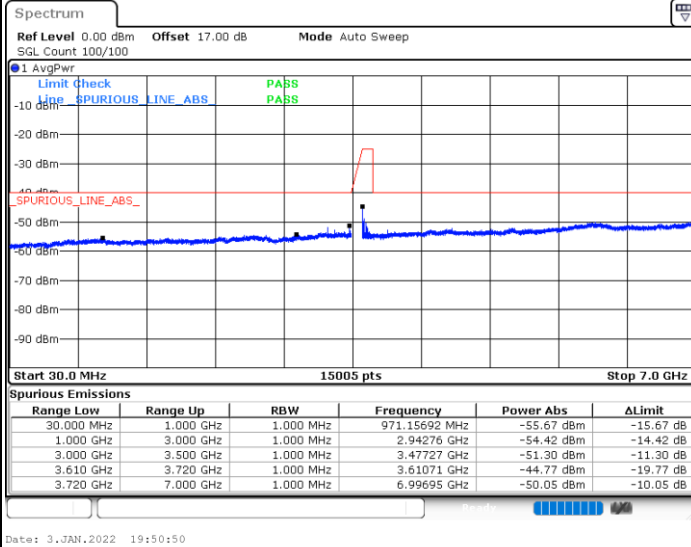




LTE Band 48 / 15MHz

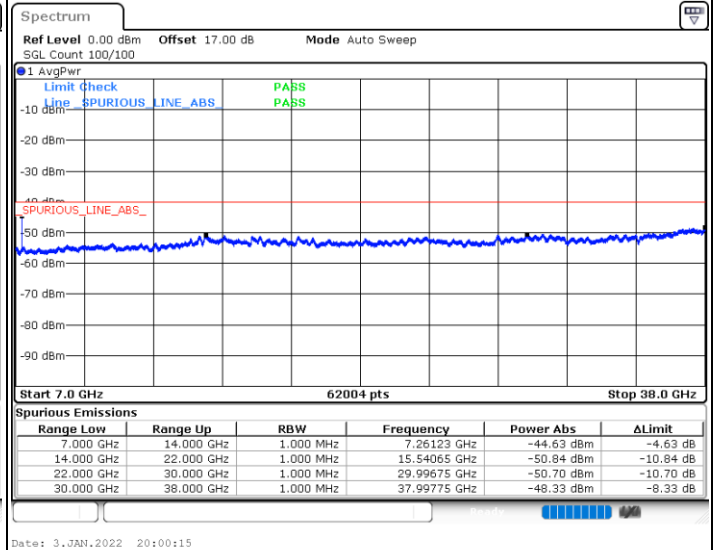
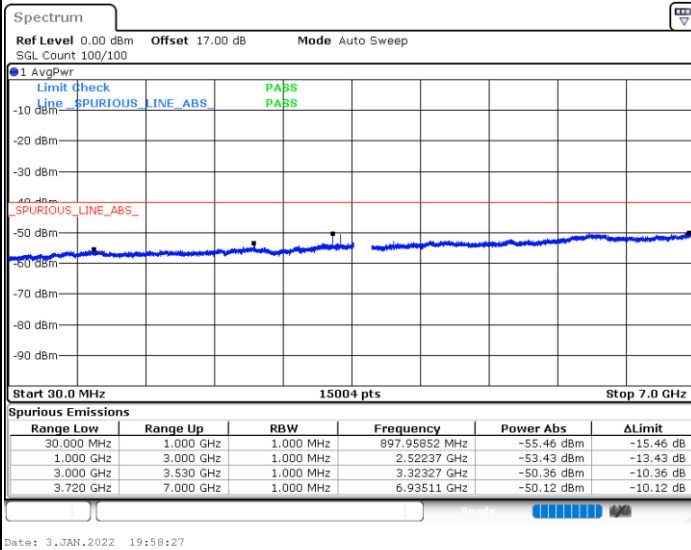
Lowest Channel / QPSK / 1RB67

Lowest Channel / QPSK / 1RB67



Middle Channel / QPSK / 1RB67

Middle Channel / QPSK / 1RB67

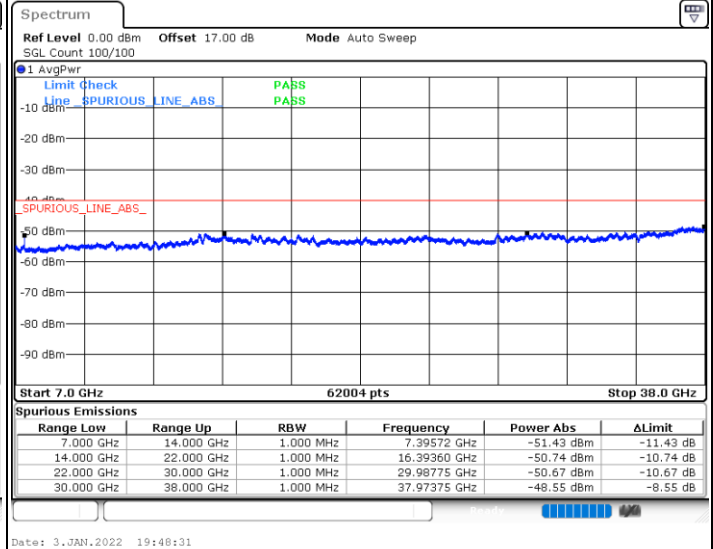
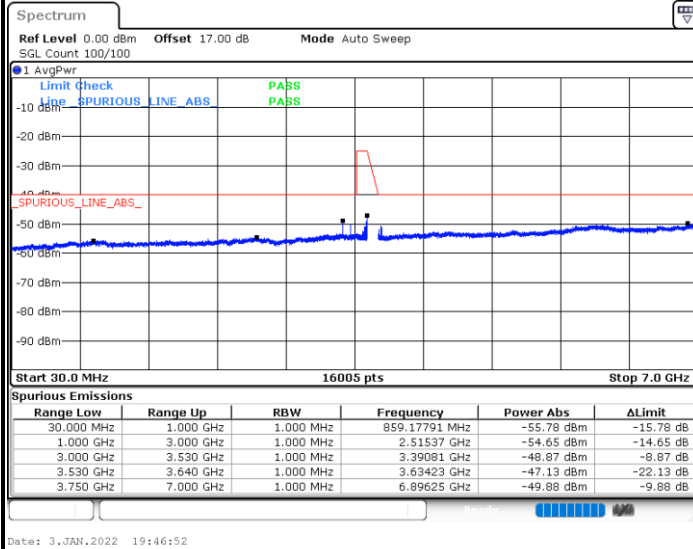




LTE Band 48 / 15MHz

Highest Channel / QPSK / 1RB67

Highest Channel / QPSK / 1RB67

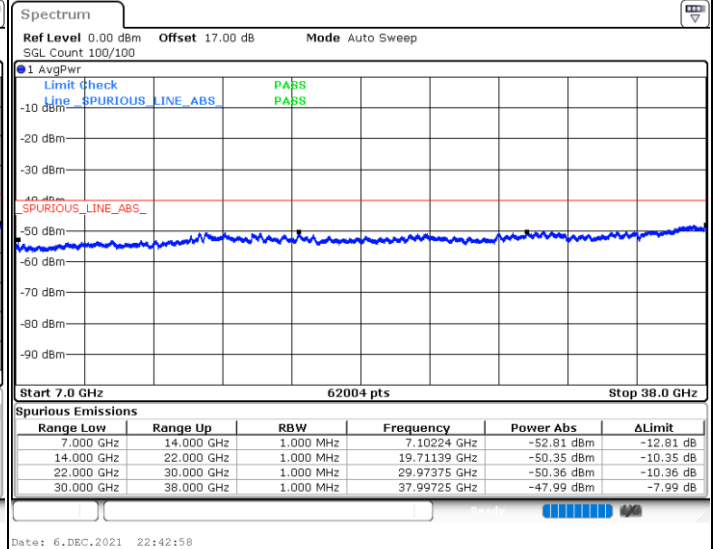
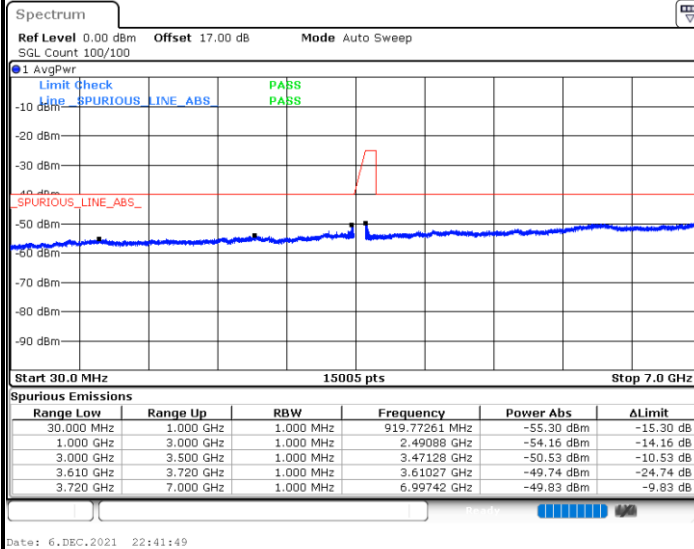




LTE Band 48 / 20MHz

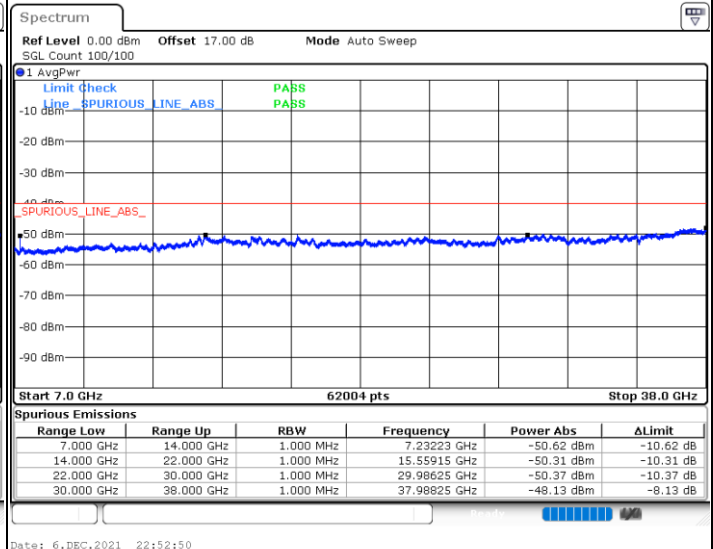
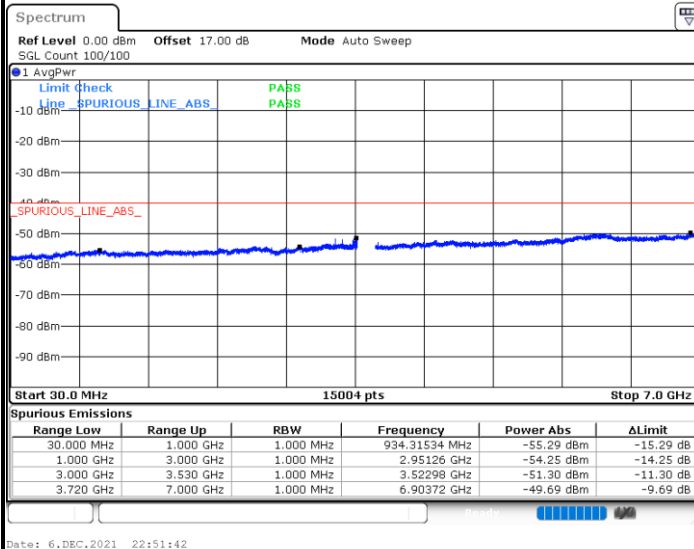
Lowest Channel / QPSK / 1RB0

Lowest Channel / QPSK / 1RB0



Middle Channel / QPSK / 1RB0

Middle Channel / QPSK / 1RB0

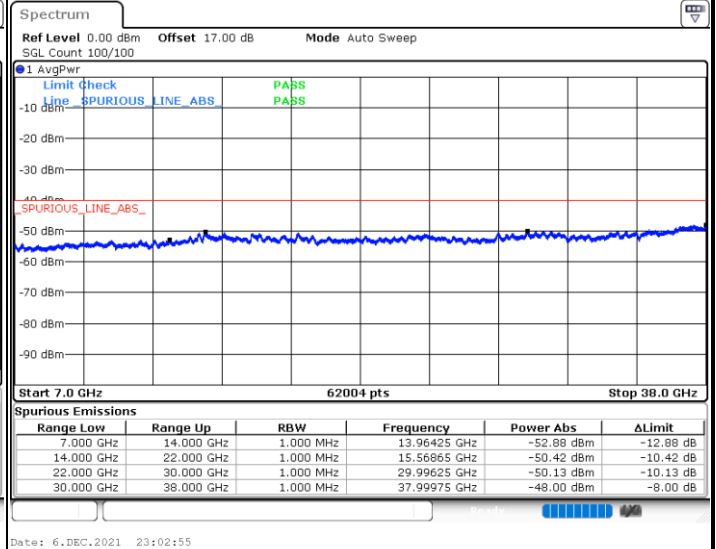
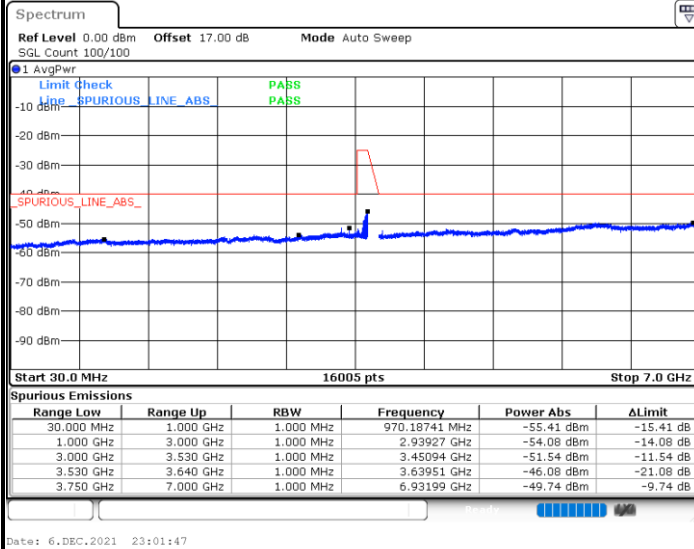




LTE Band 48 / 20MHz

Highest Channel / QPSK / 1RB0

Highest Channel / QPSK / 1RB0

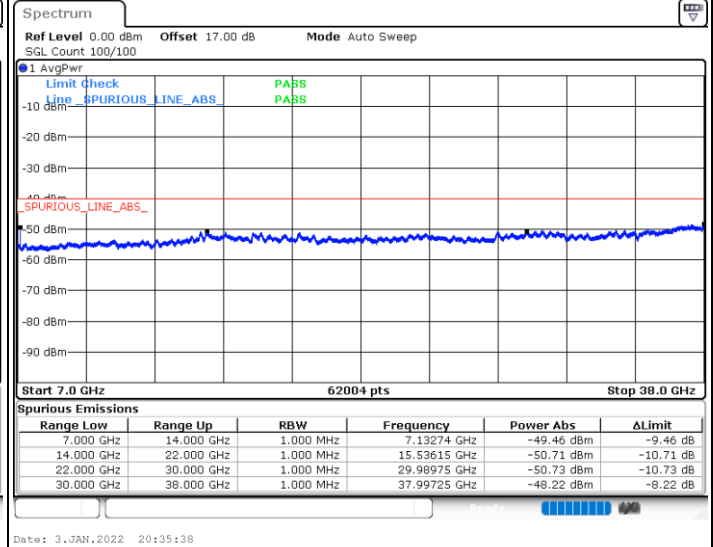
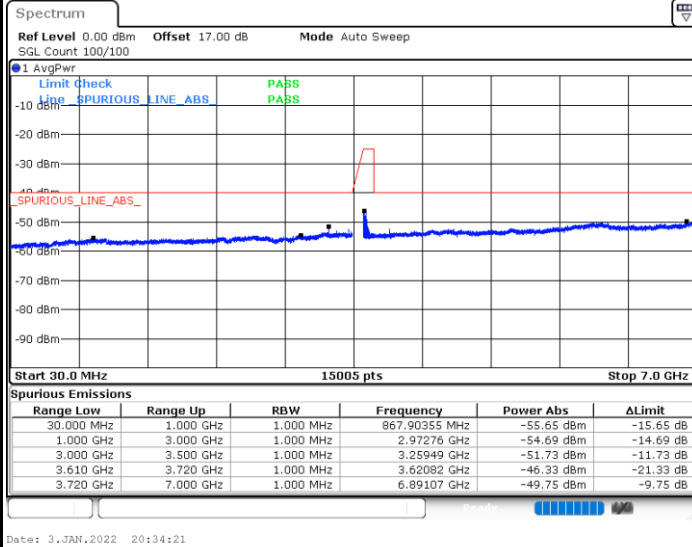




LTE Band 48 / 20MHz

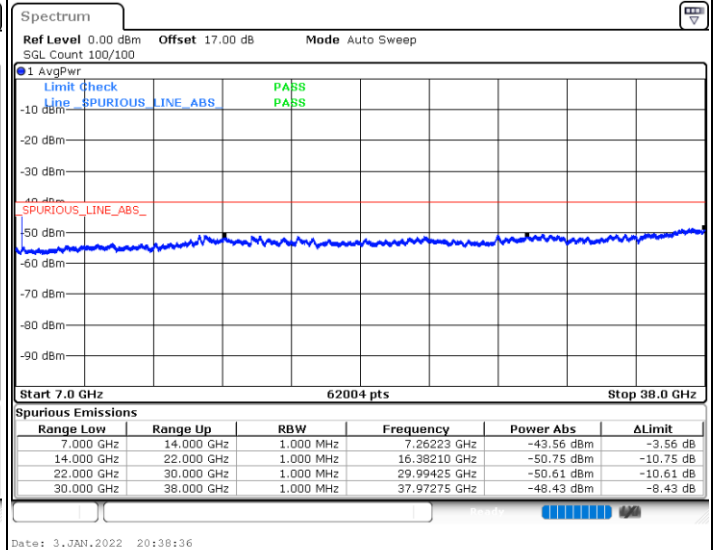
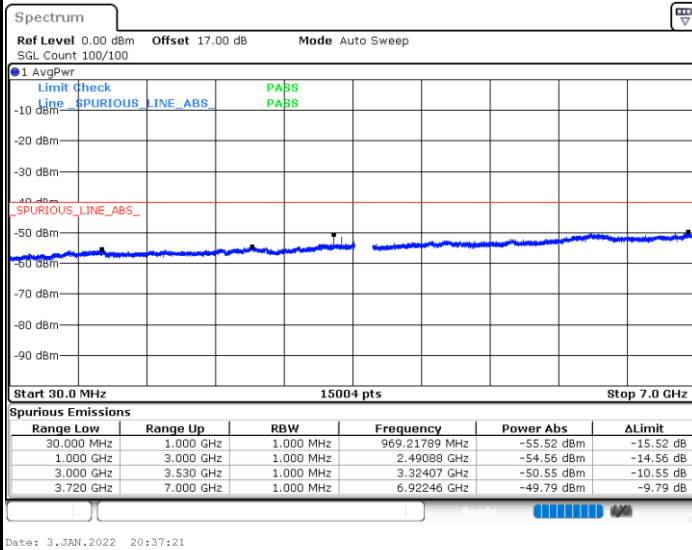
Lowest Channel / QPSK / 1RB83

Lowest Channel / QPSK / 1RB83



Middle Channel / QPSK / 1RB83

Middle Channel / QPSK / 1RB83

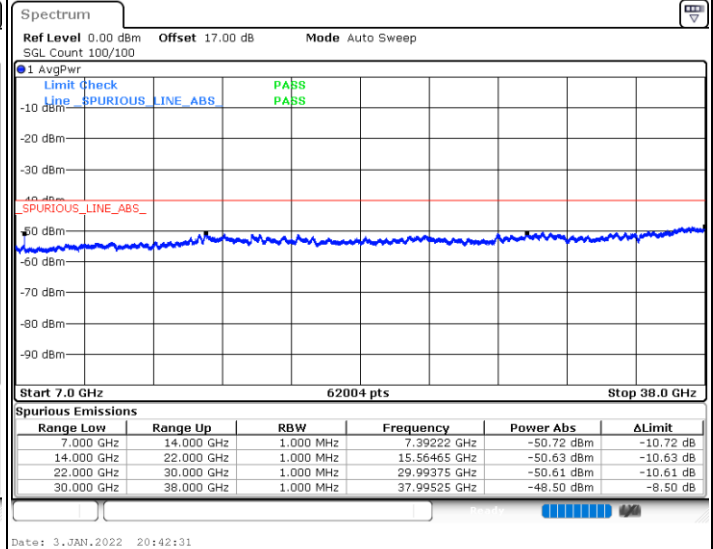
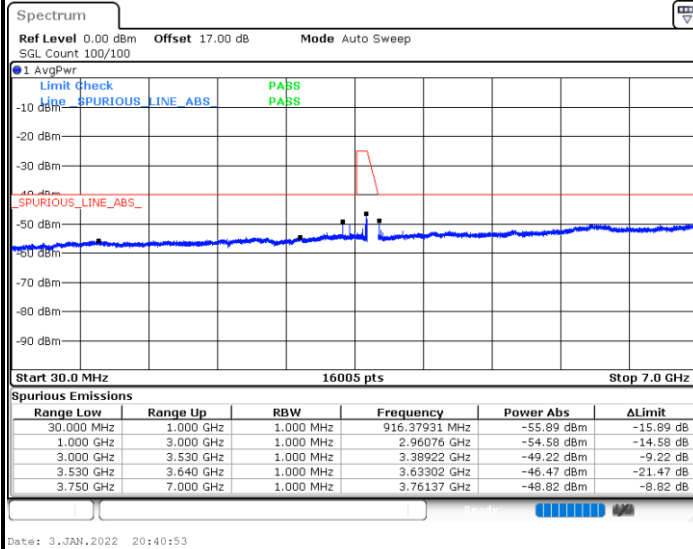




LTE Band 48 / 20MHz

Highest Channel / QPSK / 1RB83

Highest Channel / QPSK / 1RB83



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	0.0042	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0042	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0050	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0050	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (ACLRP) =3.4 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	24.78	29.67	34.97	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	34.83	39.80	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.68	29.73	34.90	25.03
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	34.97	39.80	-

Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.63	29.91	34.83	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	35.04	39.80	-

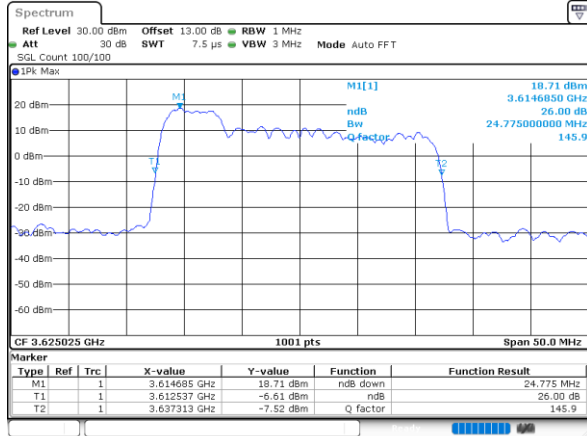
Mode	LTE Band 48C : 26dB BW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.78	29.79	34.83	24.78
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.09	34.83	39.88	-



LTE Band 48C

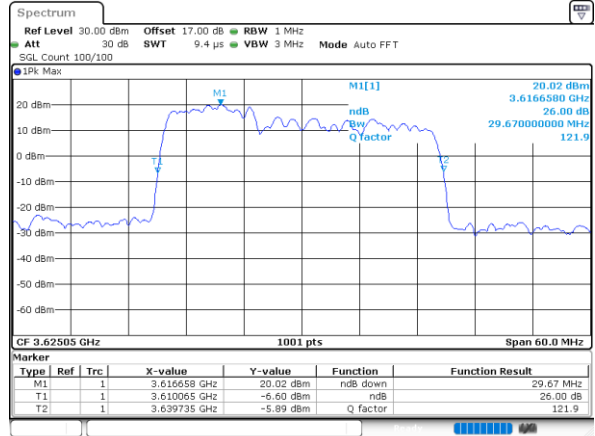
QPSK

Middle Channel / 5MHz+20MHz



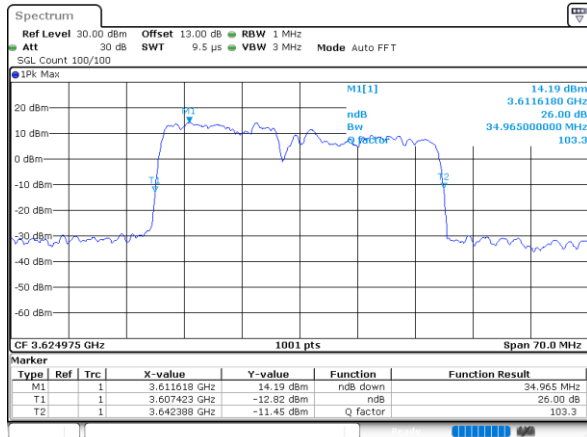
Date: 23.DEC.2021 16:32:56

Middle Channel / 10MHz+20MHz



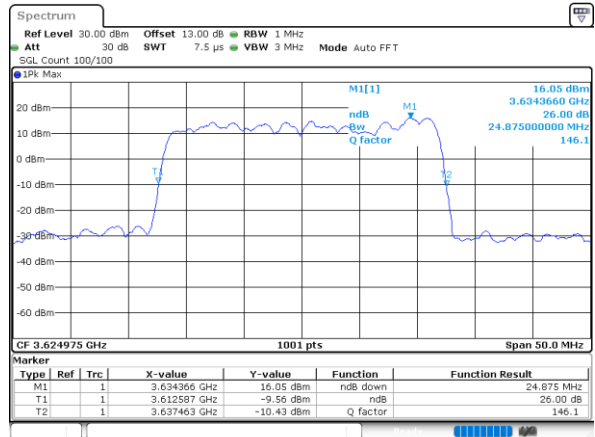
Date: 23.DEC.2021 15:16:53

Middle Channel / 15MHz+20MHz



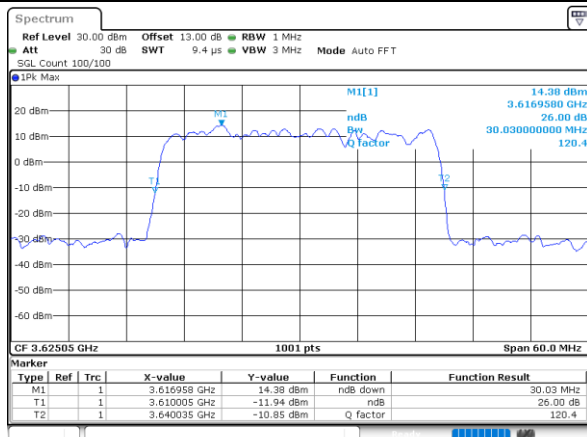
Date: 23.DEC.2021 11:09:39

Middle Channel / 20MHz+5MHz



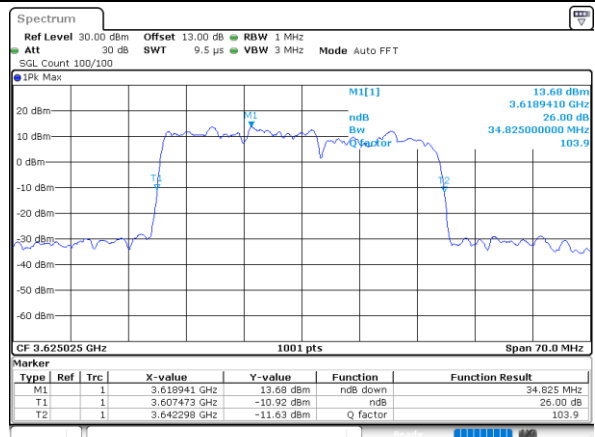
Date: 23.DEC.2021 16:15:34

Middle Channel / 20MHz+10MHz



Date: 23.DEC.2021 14:26:27

Middle Channel / 20MHz+15MHz



Date: 23.DEC.2021 10:03:49

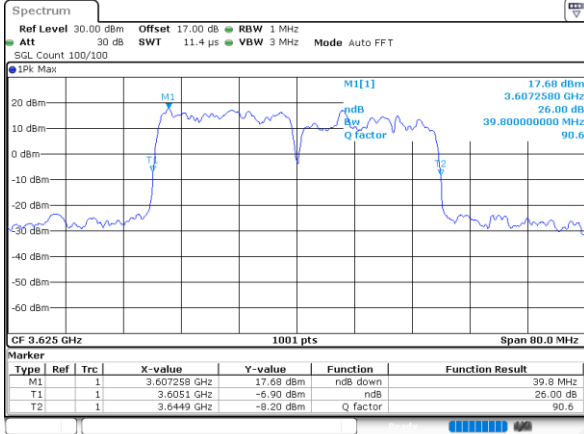


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A



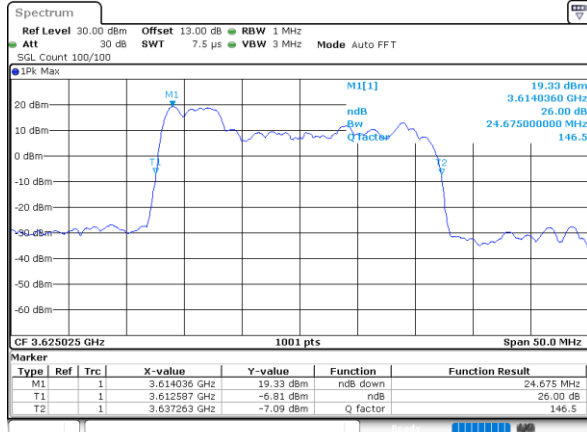
Date: 23, DEC, 2021 01:29:04



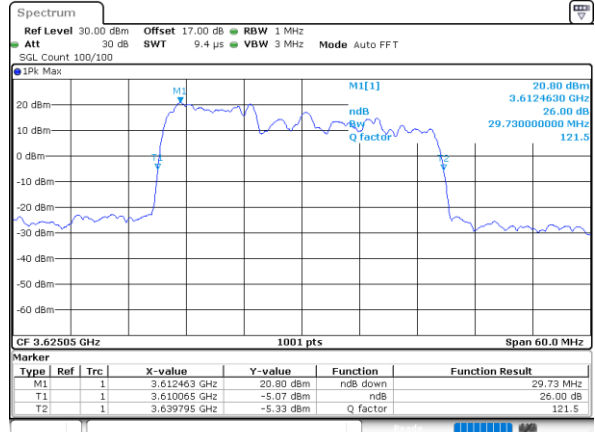
LTE Band 48C

16QAM

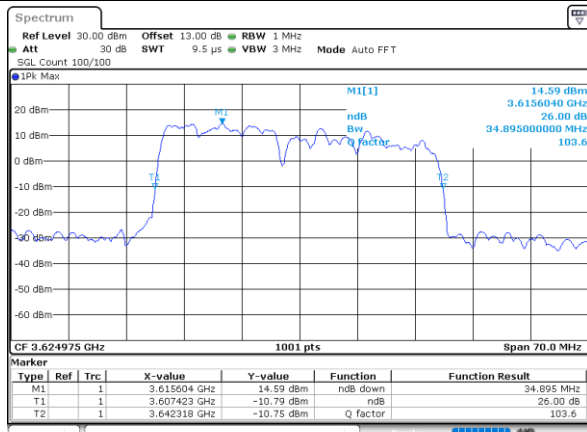
Middle Channel / 5MHz+20MHz



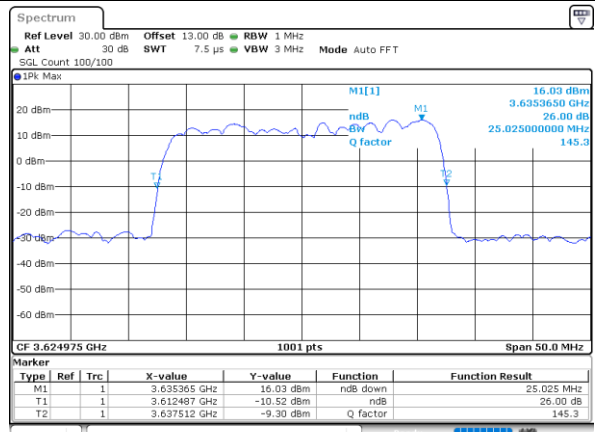
Middle Channel / 10MHz+20MHz



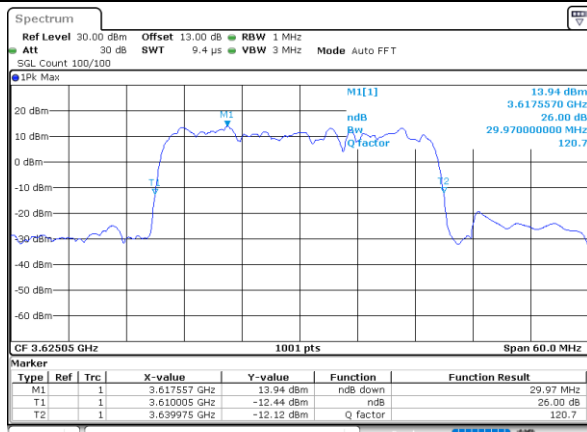
Middle Channel / 15MHz+20MHz



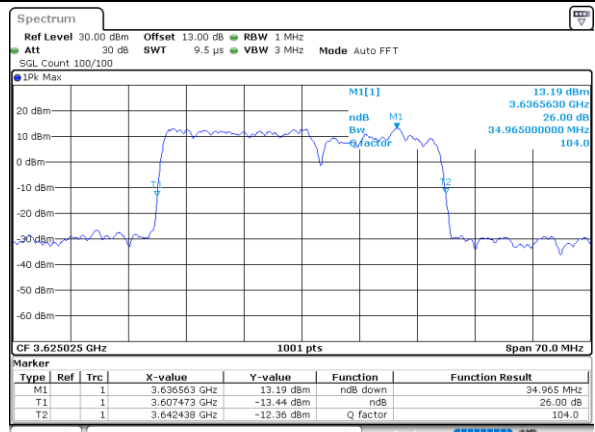
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



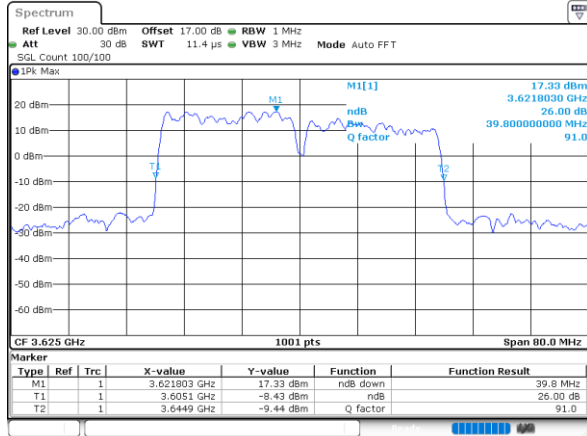


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A



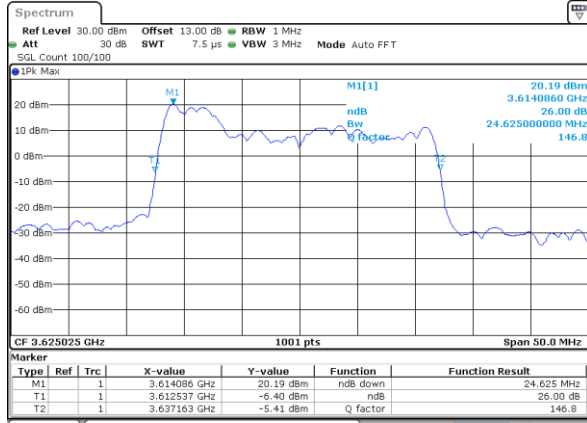
Date: 23, DEC, 2021 01:29:33



LTE Band 48C

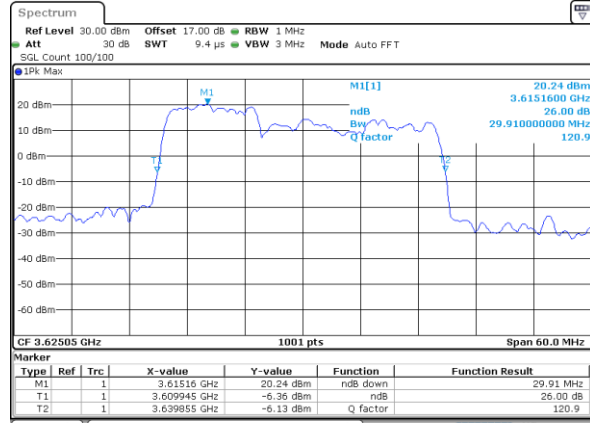
64QAM

Middle Channel / 5MHz+20MHz



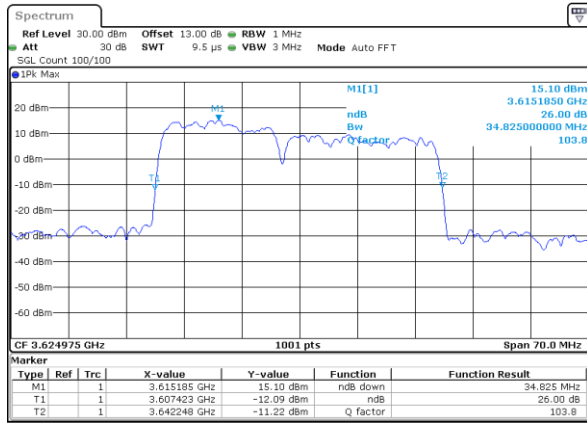
Date: 23, DEC, 2021 16:34:45

Middle Channel / 10MHz+20MHz



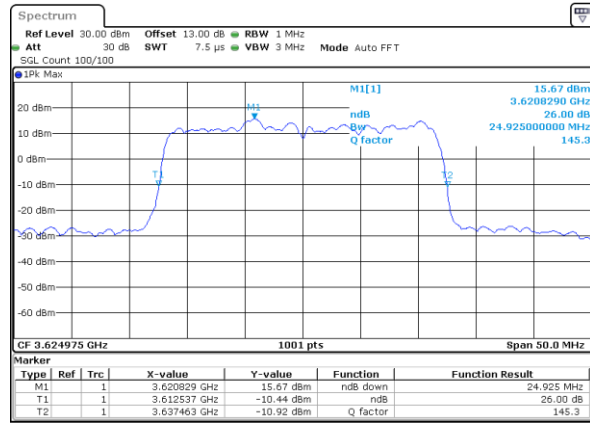
Date: 23, DEC, 2021 15:17:48

Middle Channel / 15MHz+20MHz



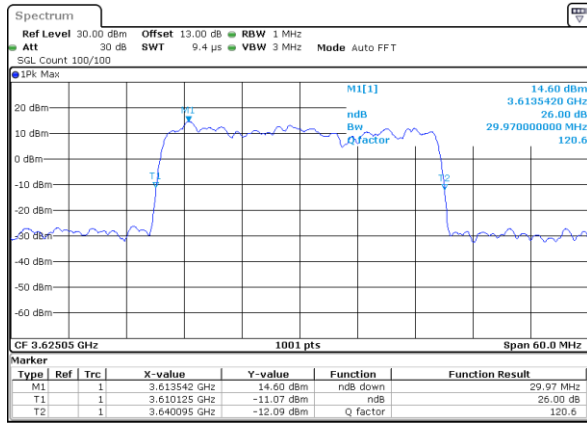
Date: 23, DEC, 2021 11:10:35

Middle Channel / 20MHz+5MHz



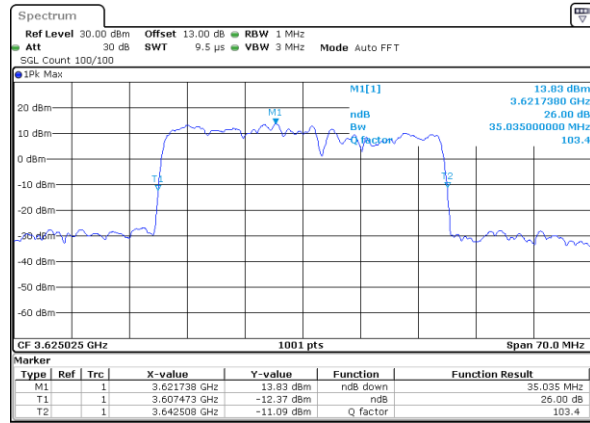
Date: 23, DEC, 2021 16:17:23

Middle Channel / 20MHz+10MHz



Date: 23, DEC, 2021 14:27:22

Middle Channel / 20MHz+15MHz



Date: 23, DEC, 2021 10:04:45

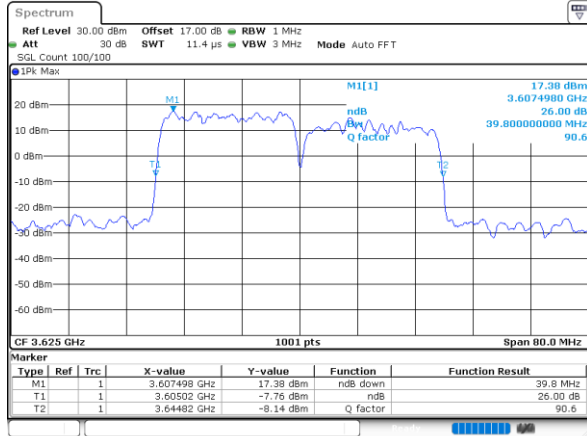


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A



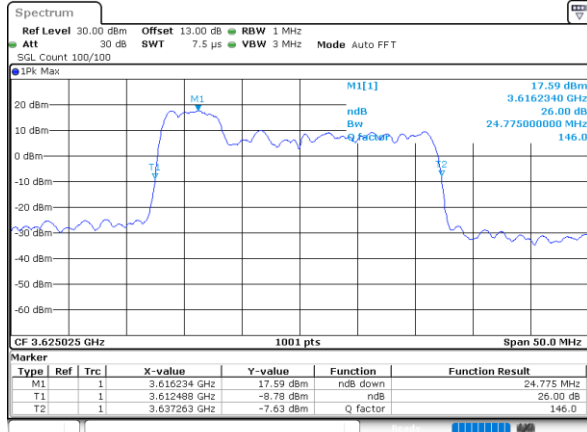
Date: 23, DEC, 2021 01:30:01



LTE Band 48C

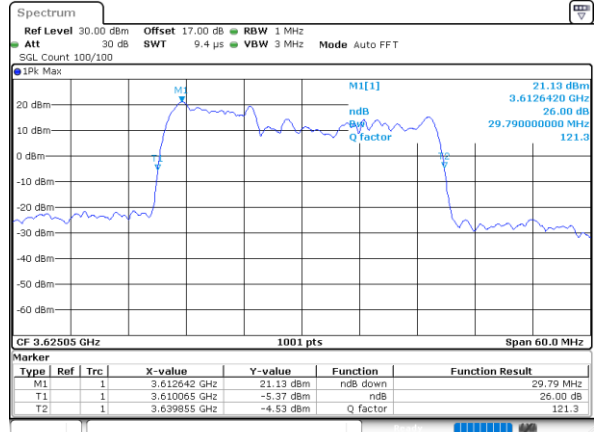
256QAM

Middle Channel / 5MHz+20MHz



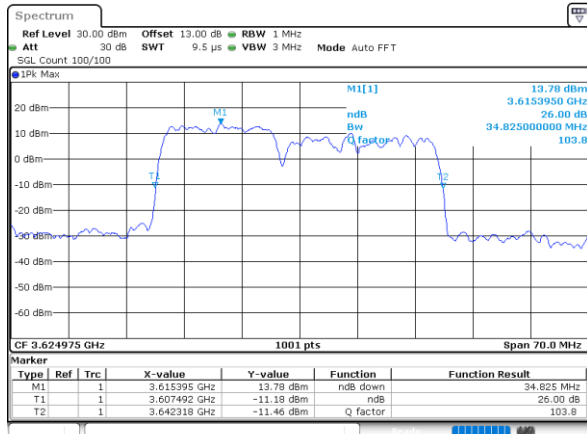
Date: 23.DEC.2021 16:35:12

Middle Channel / 10MHz+20MHz



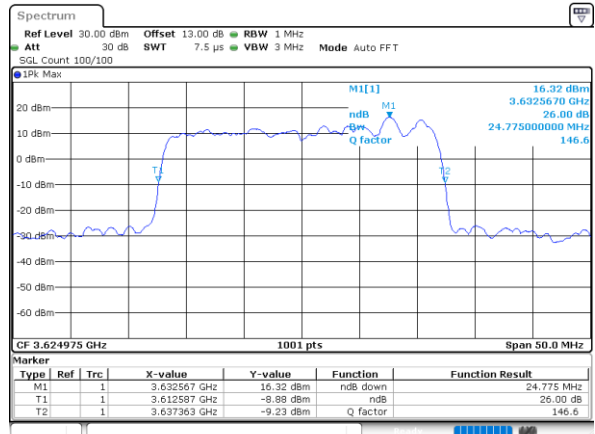
Date: 23.DEC.2021 15:18:15

Middle Channel / 15MHz+20MHz



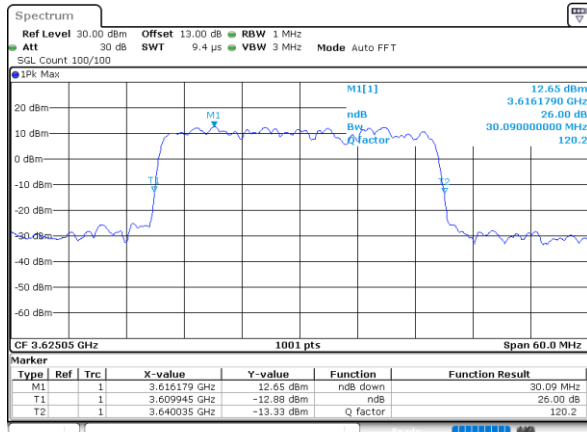
Date: 23.DEC.2021 11:11:04

Middle Channel / 20MHz+5MHz



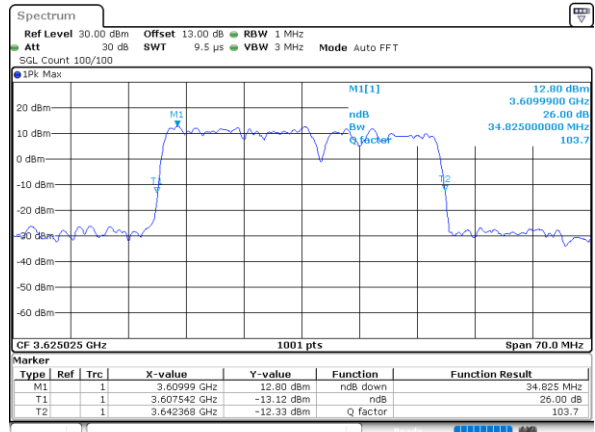
Date: 23.DEC.2021 16:17:51

Middle Channel / 20MHz+10MHz



Date: 23.DEC.2021 14:27:50

Middle Channel / 20MHz+15MHz



Date: 23.DEC.2021 10:05:14

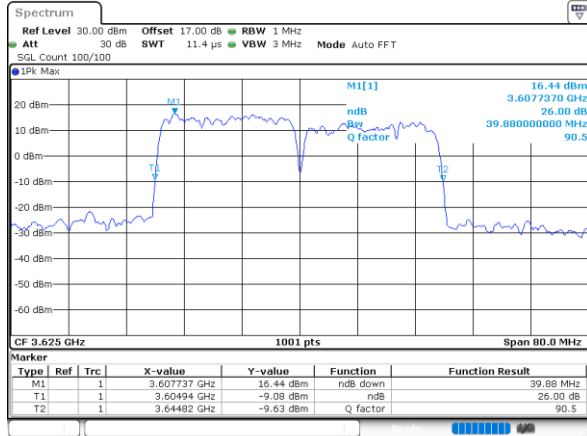


LTE Band 48C

256QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 23, DEC, 2021 01:30:29

Occupied Bandwidth

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	22.98	28.17	32.52	23.08
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.93	32.73	37.72	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.33	27.93	32.73	23.03
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.11	32.87	37.64	-

Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	22.98	27.81	32.66	23.13
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.99	32.94	37.48	-

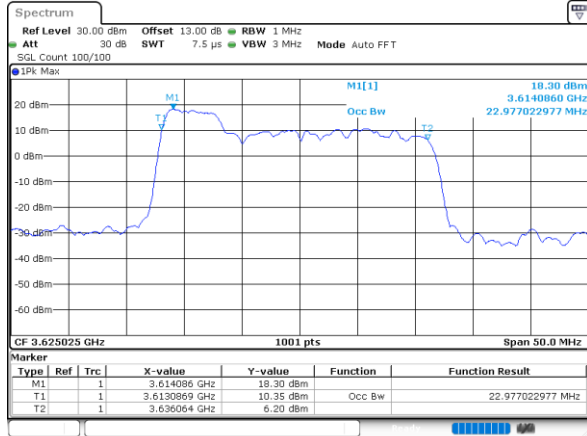
Mode	LTE Band 48C : 99%OBW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.18	27.75	32.66	23.43
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.75	32.59	37.40	-



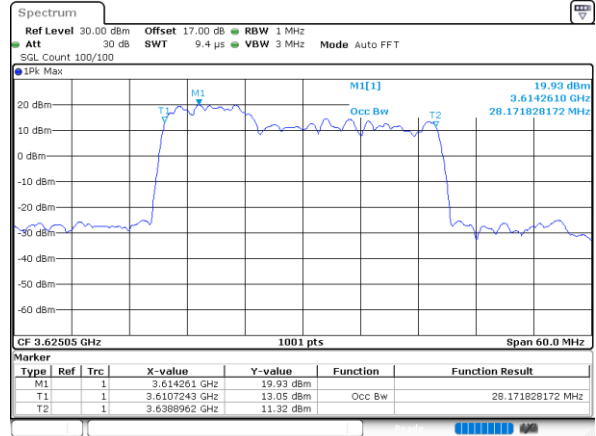
LTE Band 48C

QPSK

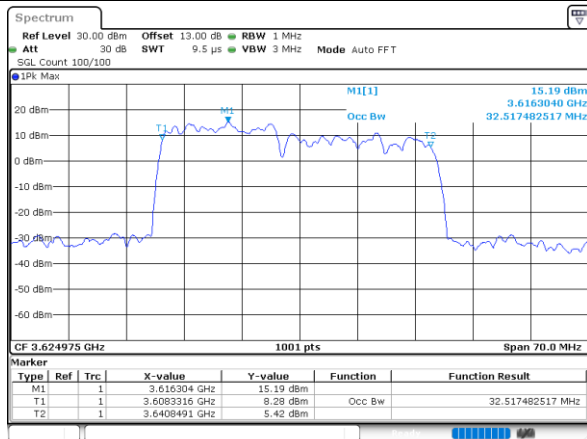
Middle Channel / 5MHz+20MHz



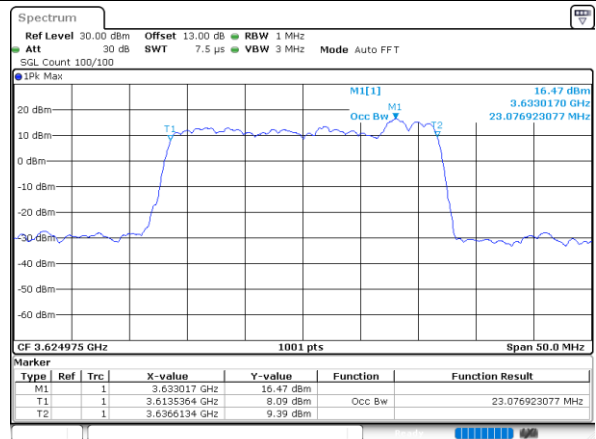
Middle Channel / 10MHz+20MHz



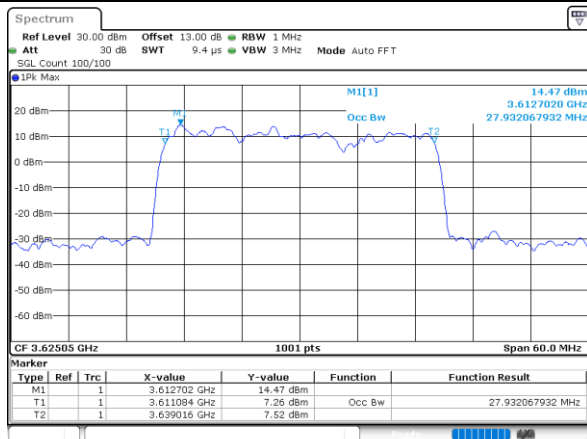
Middle Channel / 15MHz+20MHz



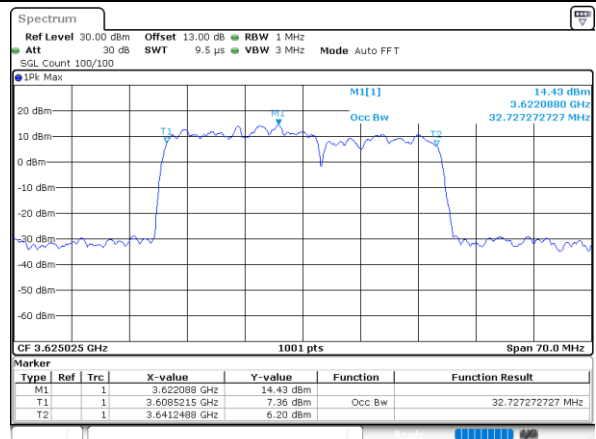
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



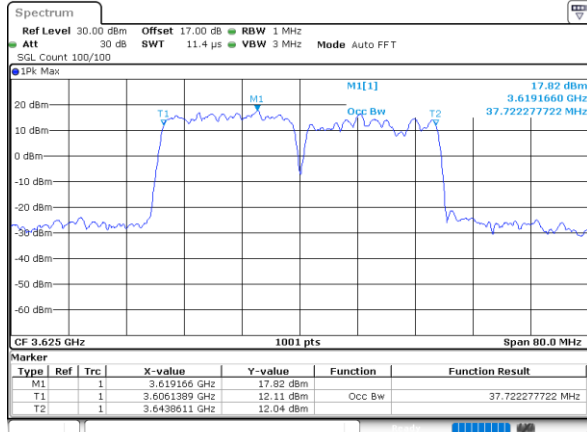


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A



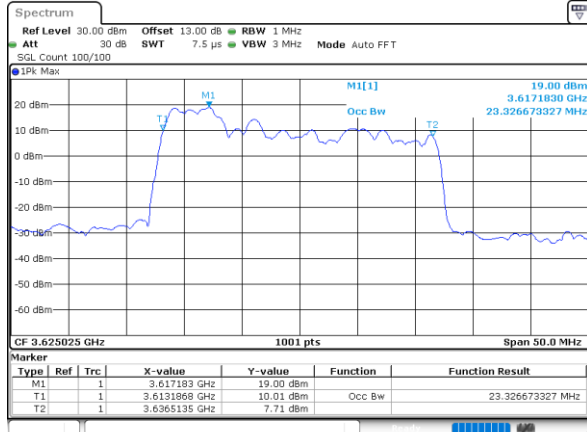
Date: 23, DEC, 2021 01:27:11



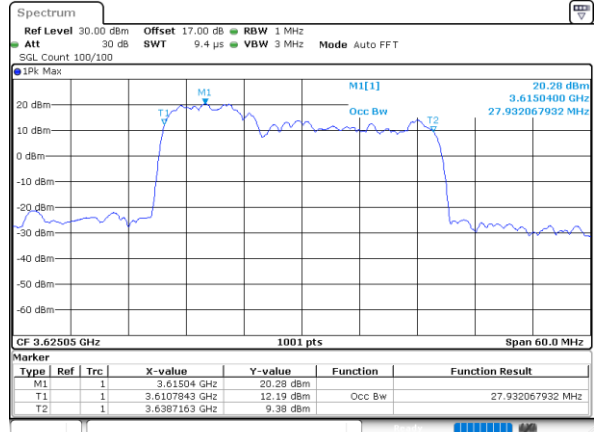
LTE Band 48C

16QAM

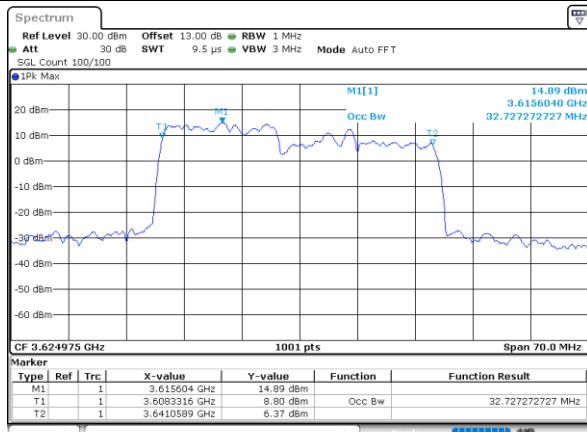
Middle Channel / 5MHz+20MHz



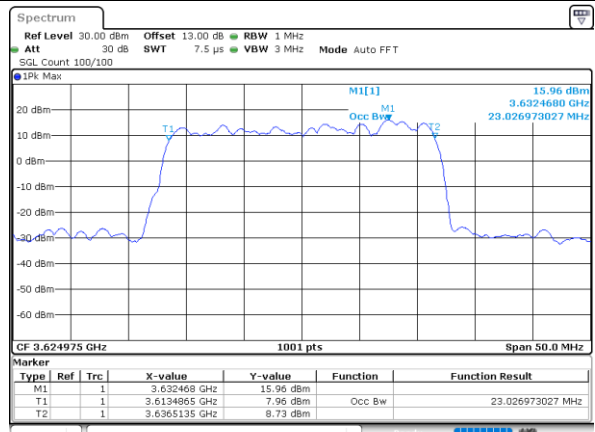
Middle Channel / 10MHz+20MHz



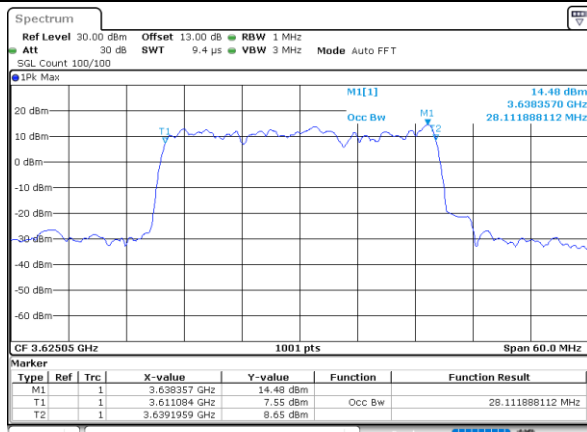
Middle Channel / 15MHz+20MHz



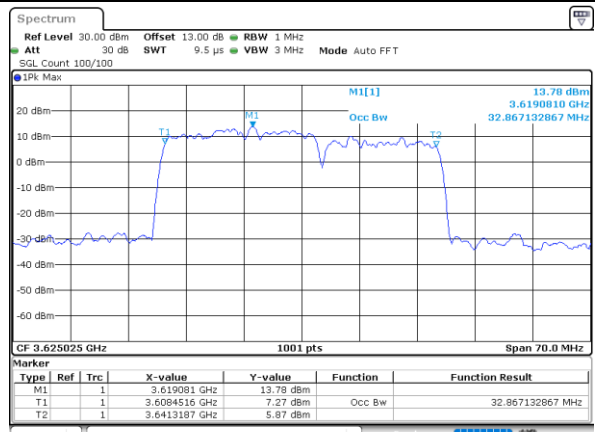
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



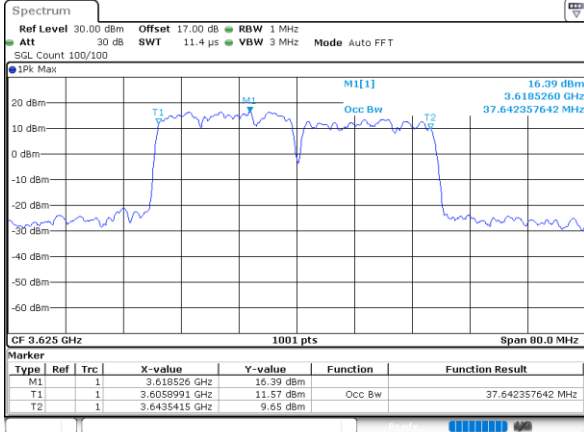


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A



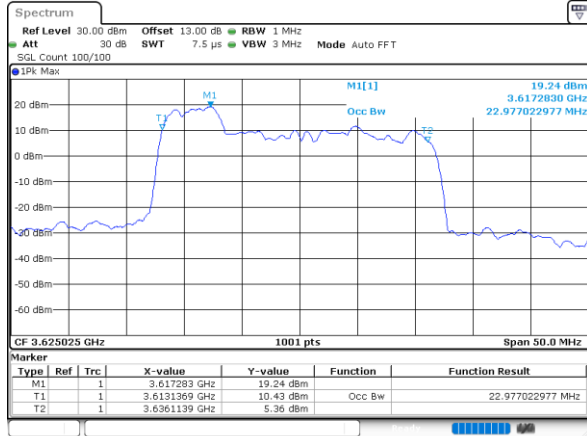
Date: 23, DEC, 2021 01:27:40



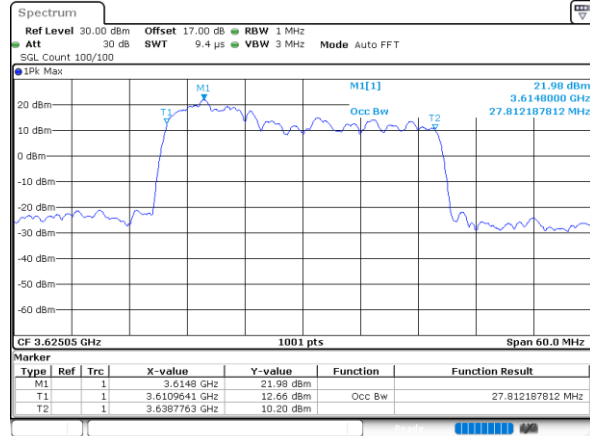
LTE Band 48C

64QAM

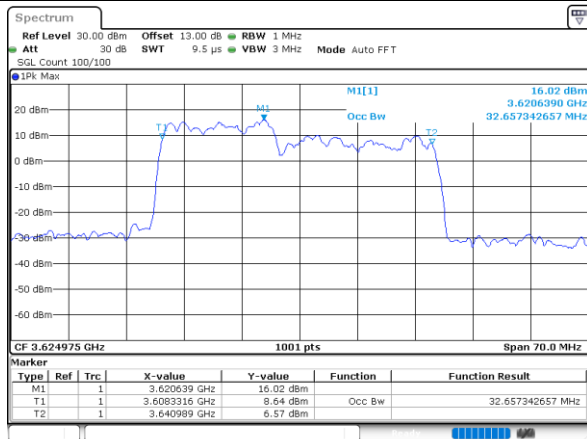
Middle Channel / 5MHz+20MHz



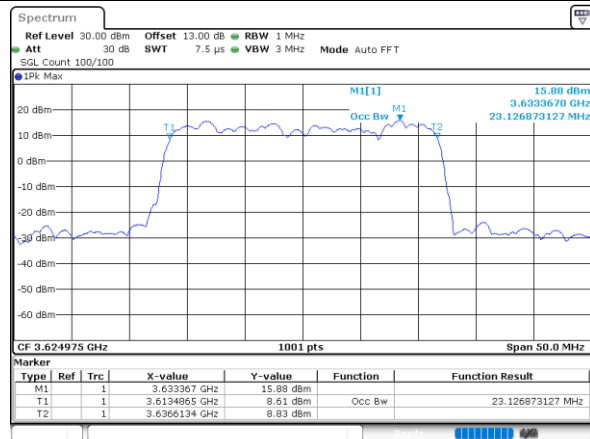
Middle Channel / 10MHz+20MHz



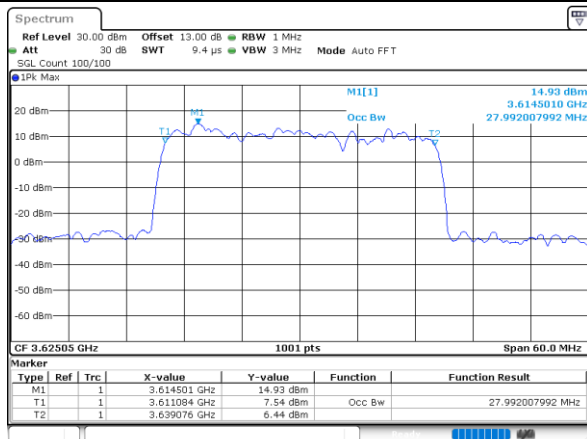
Middle Channel / 15MHz+20MHz



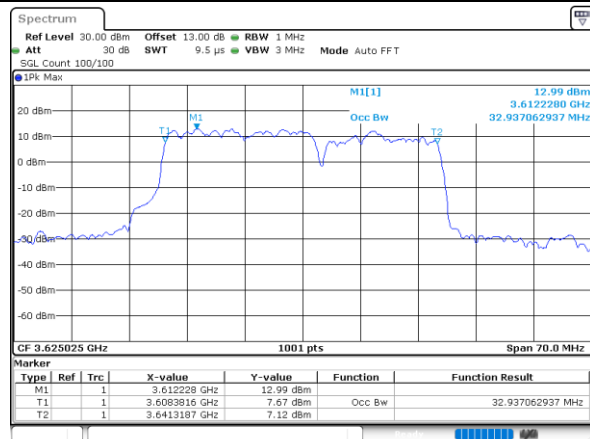
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



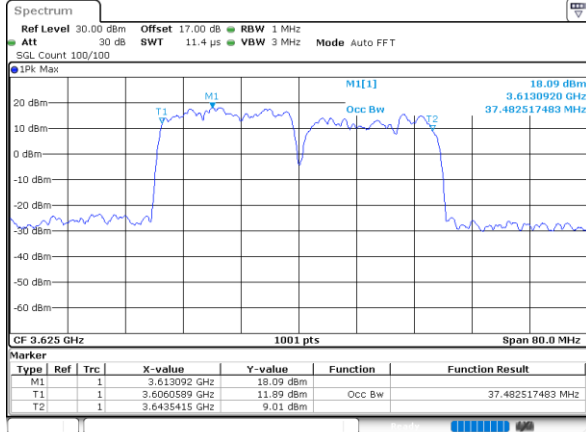


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A



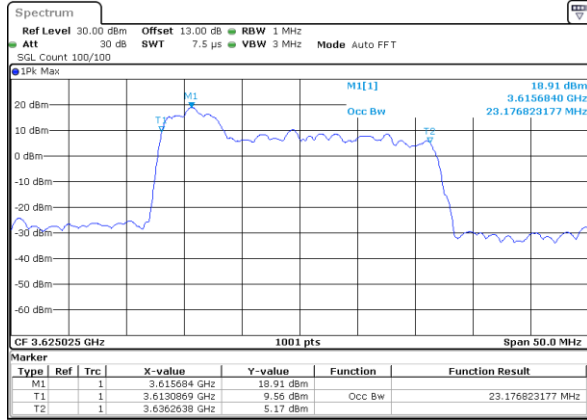
Date: 23, DEC, 2021 01:28:08



LTE Band 48C

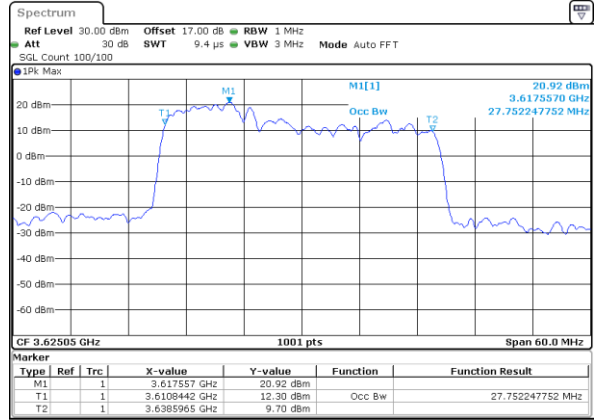
256QAM

Middle Channel / 5MHz+20MHz



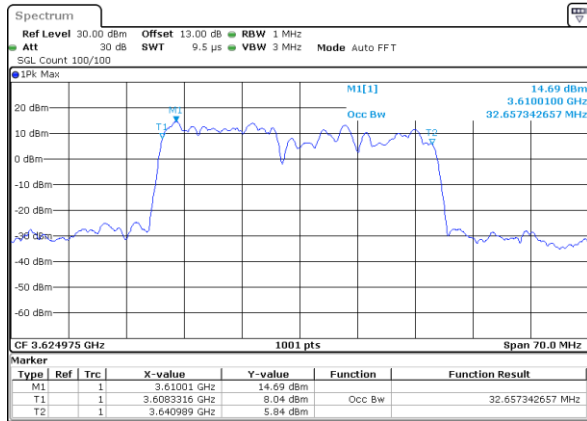
Date: 23.DEC.2021 16:35:19

Middle Channel / 10MHz+20MHz



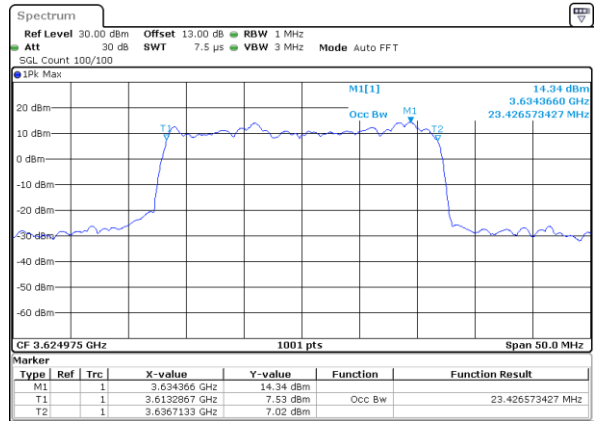
Date: 23.DEC.2021 15:11:26

Middle Channel / 15MHz+20MHz



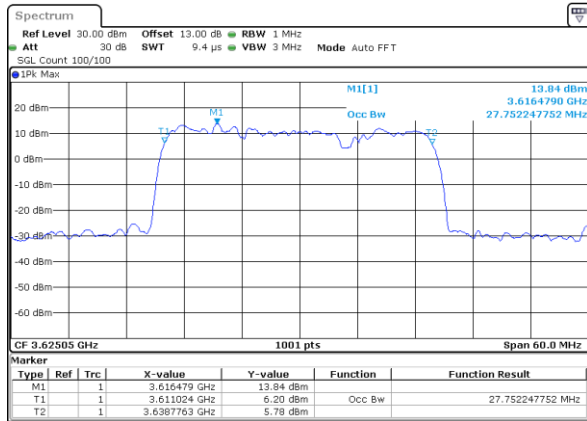
Date: 23.DEC.2021 11:09:10

Middle Channel / 20MHz+5MHz



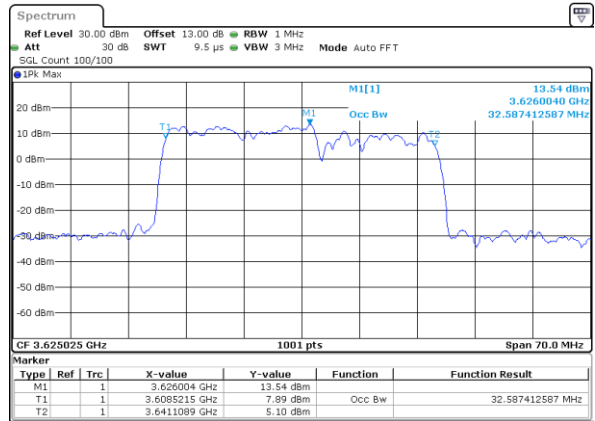
Date: 23.DEC.2021 16:18:18

Middle Channel / 20MHz+10MHz



Date: 23.DEC.2021 14:26:00

Middle Channel / 20MHz+15MHz



Date: 23.DEC.2021 10:10:20

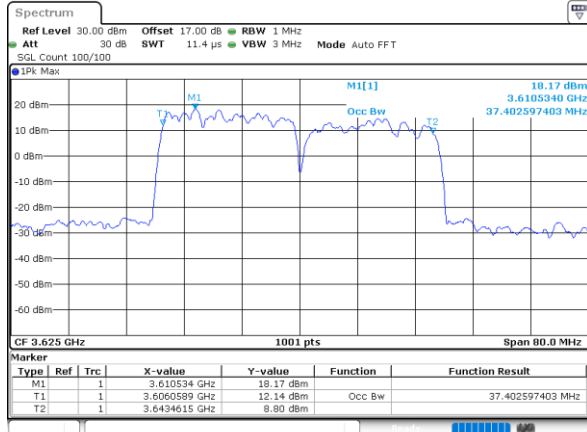


LTE Band 48C

256QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 23, DEC, 2021 01:28:36



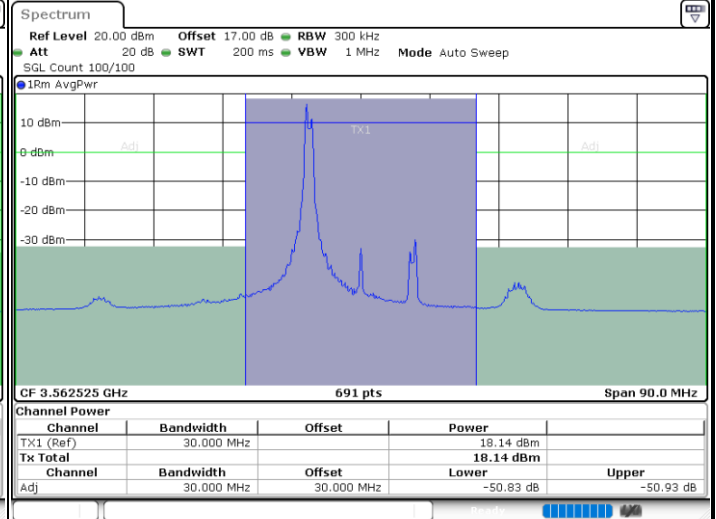
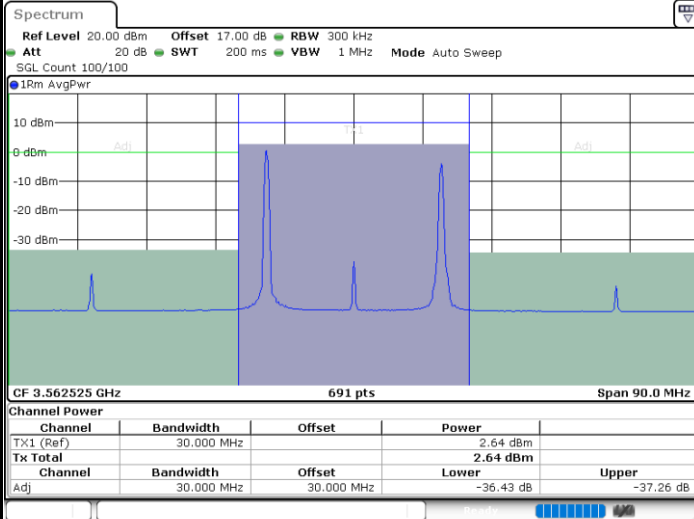
ACLR

LTE Band 48C / 5MHz+20MHz

QPSK

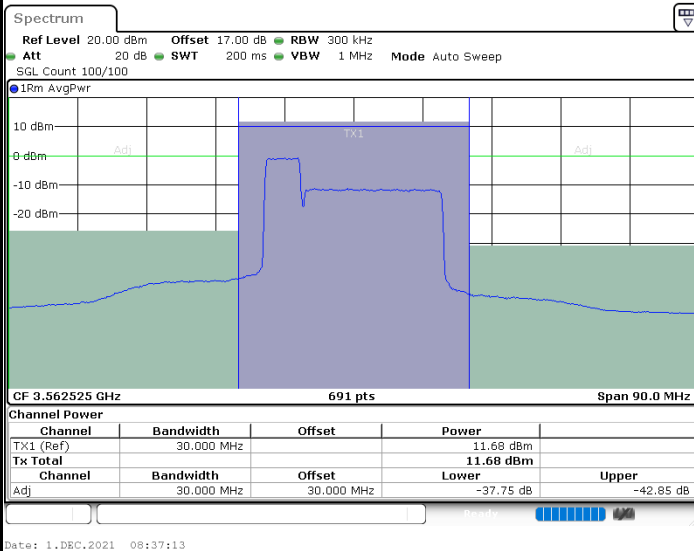
Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB24 and 1RB0



Lowest Channel / FullRB

N/A



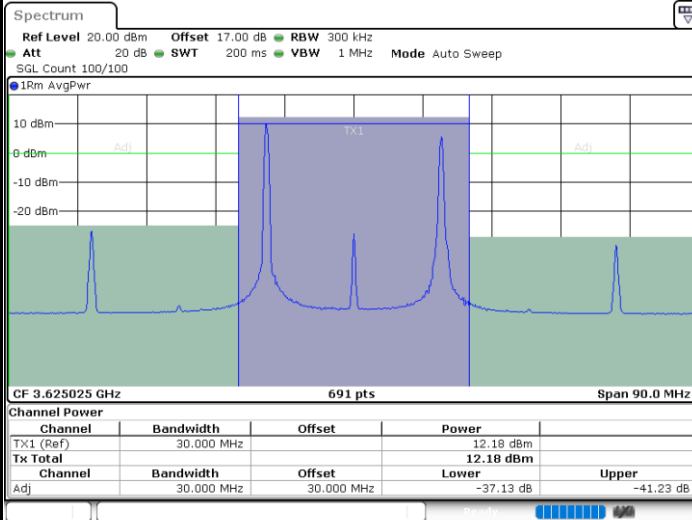


LTE Band 48C / 5MHz+20MHz

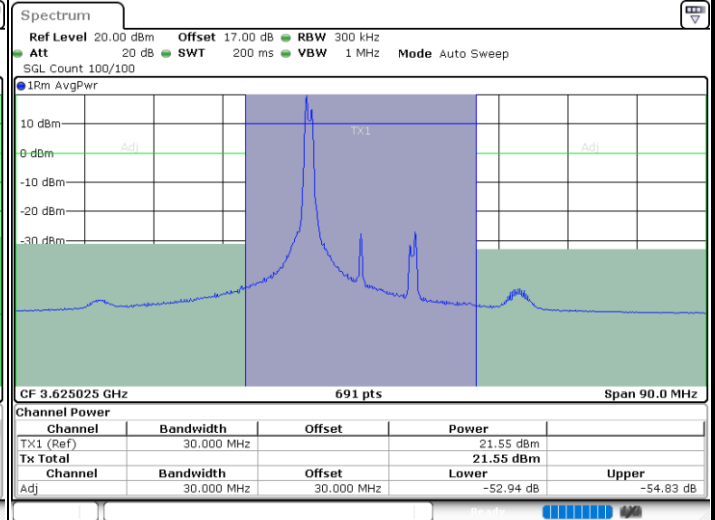
QPSK

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB24 and 1RB0



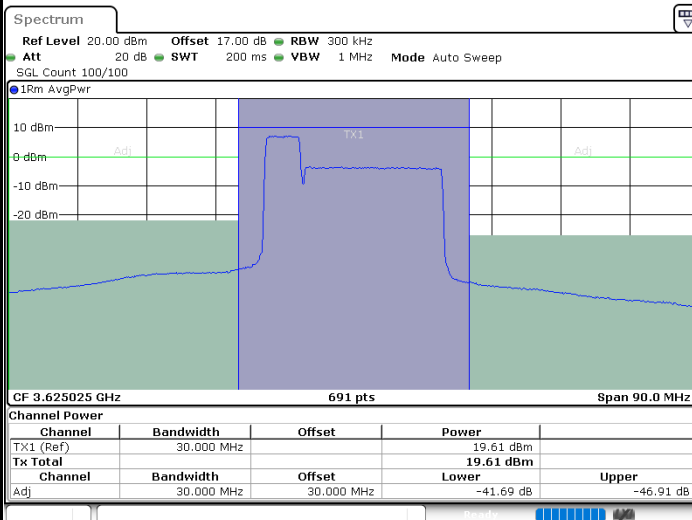
Date: 23.DEC.2021 16:47:16



Date: 23.DEC.2021 16:54:43

Middle Channel / FullRB

N/A



Date: 23.DEC.2021 16:41:33

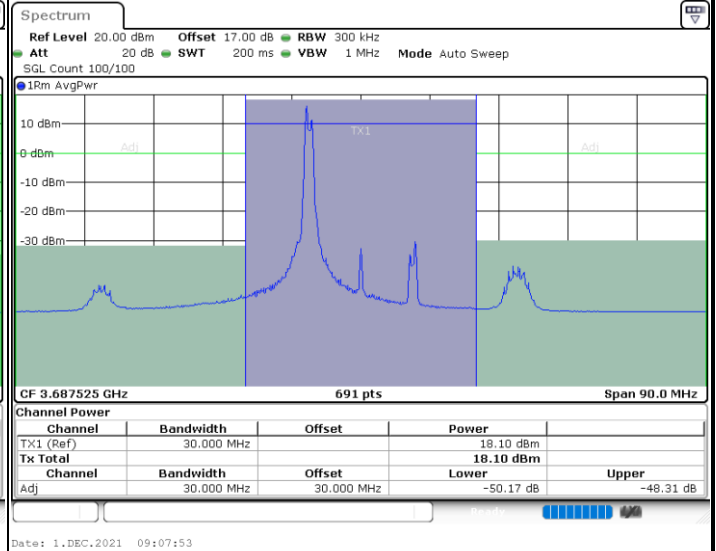
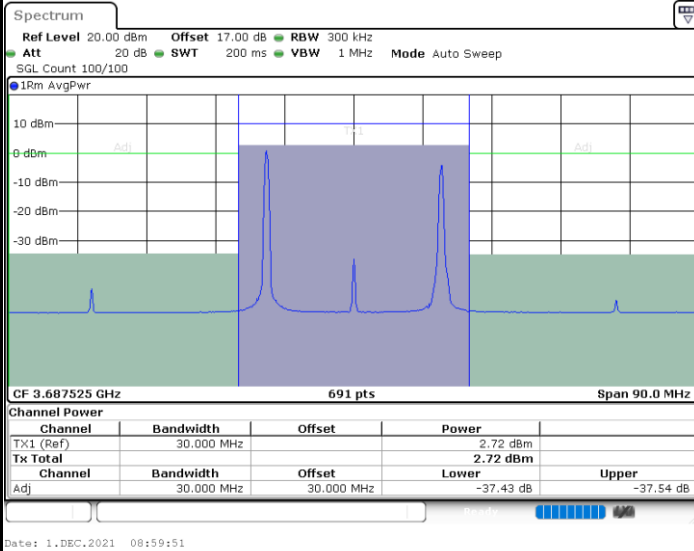


LTE Band 48C / 5MHz+20MHz

QPSK

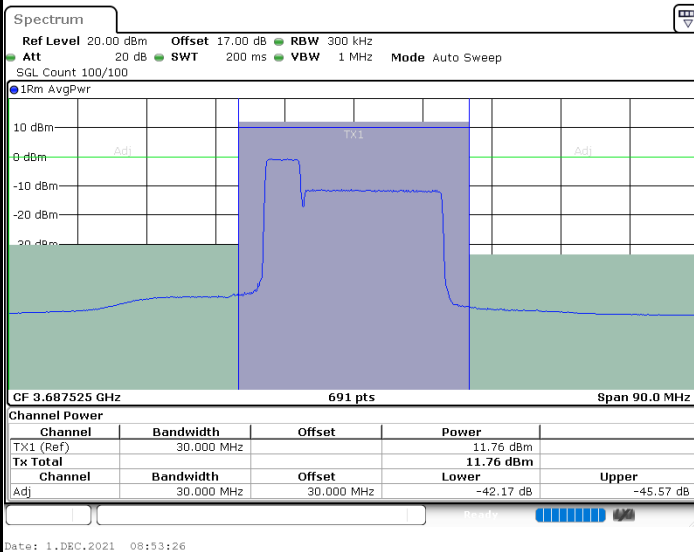
Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB24 and 1RB0



Highest Channel / FullRB

N/A



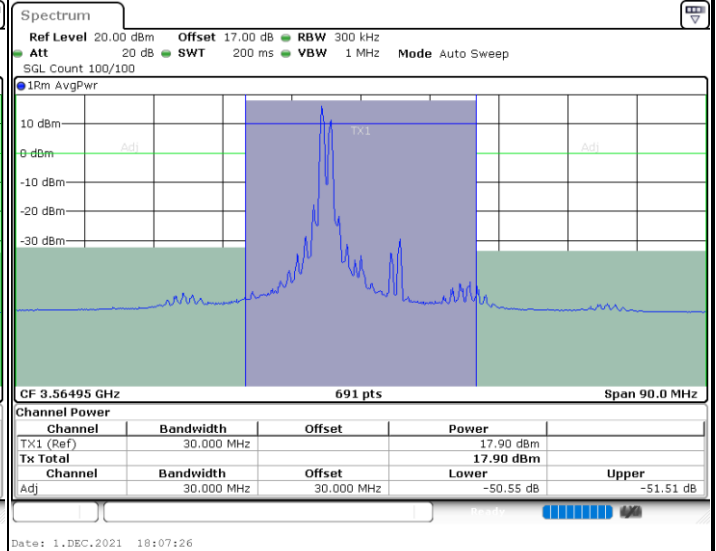
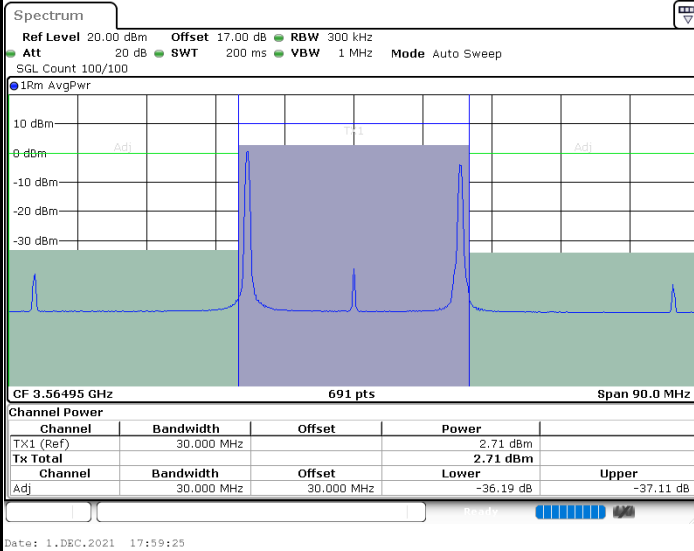


LTE Band 48C / 10MHz+20MHz

QPSK

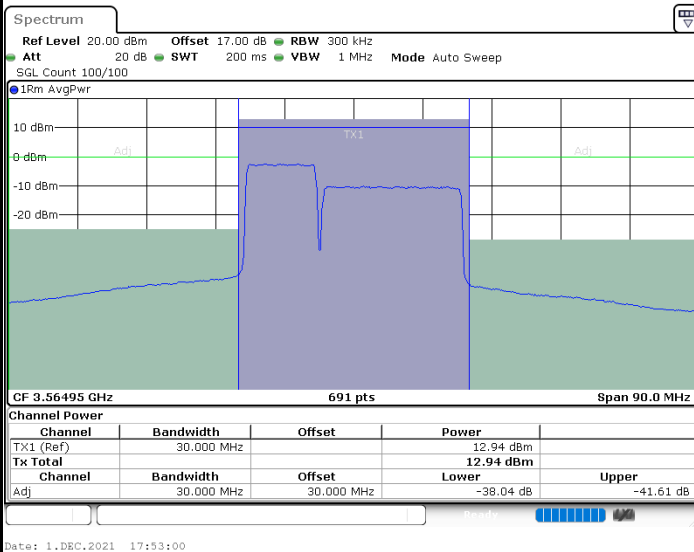
Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB49 and 1RB0



Lowest Channel / FullRB

N/A



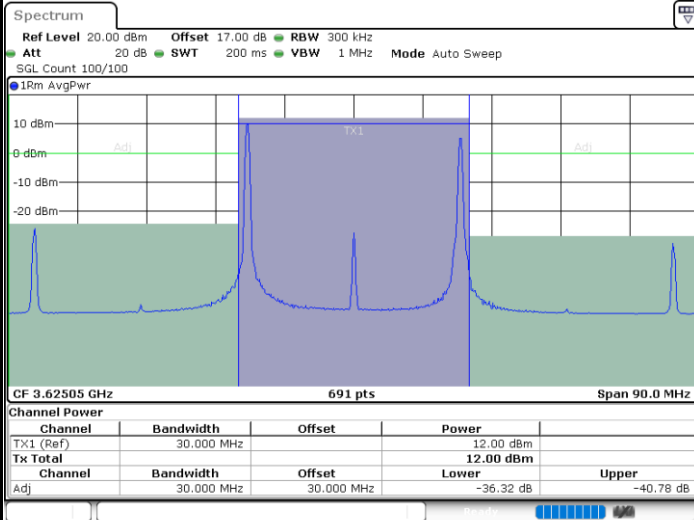


LTE Band 48C / 10MHz+20MHz

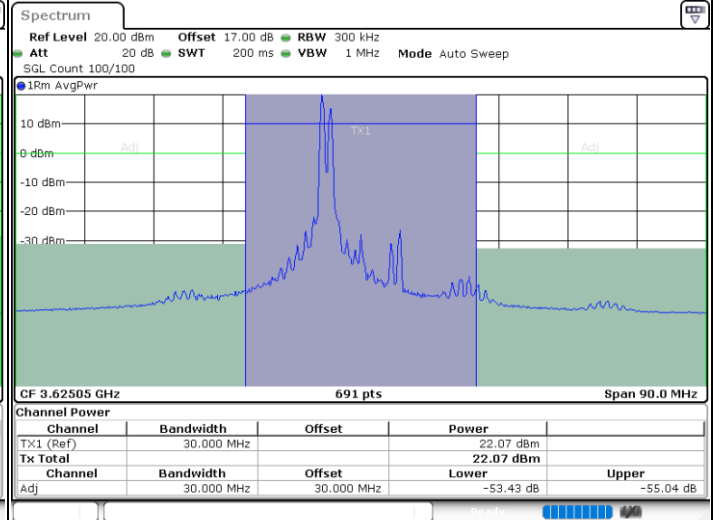
QPSK

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB49 and 1RB0



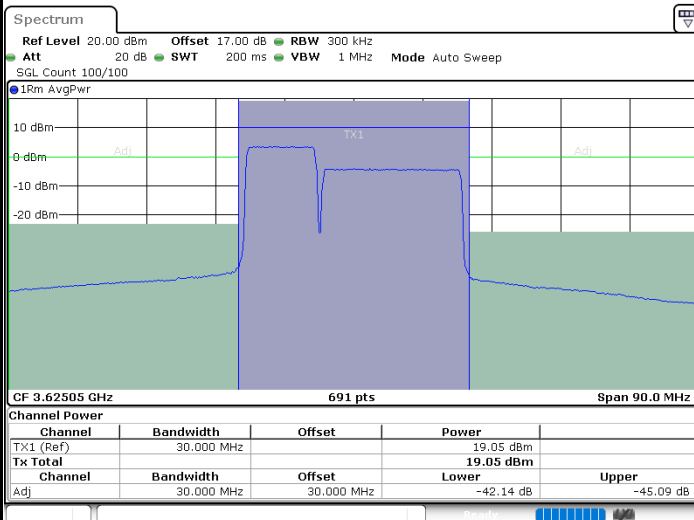
Date: 23.DEC.2021 14:59:44



Date: 23.DEC.2021 15:07:11

Middle Channel / FullRB

N/A



Date: 23.DEC.2021 14:54:01

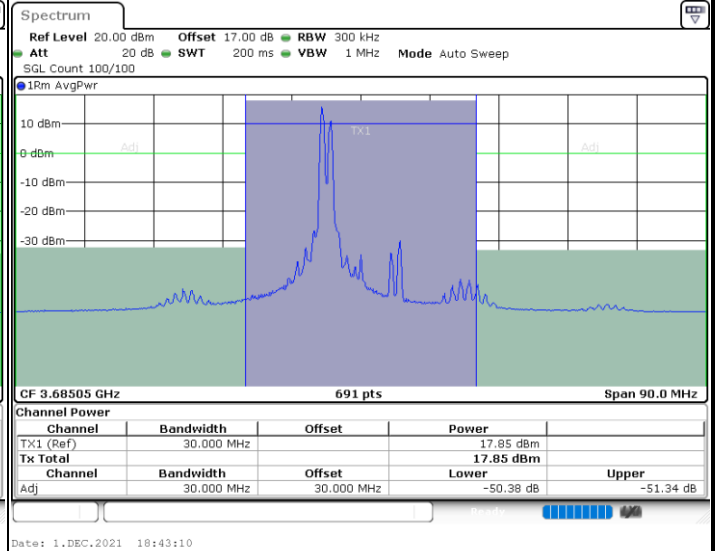
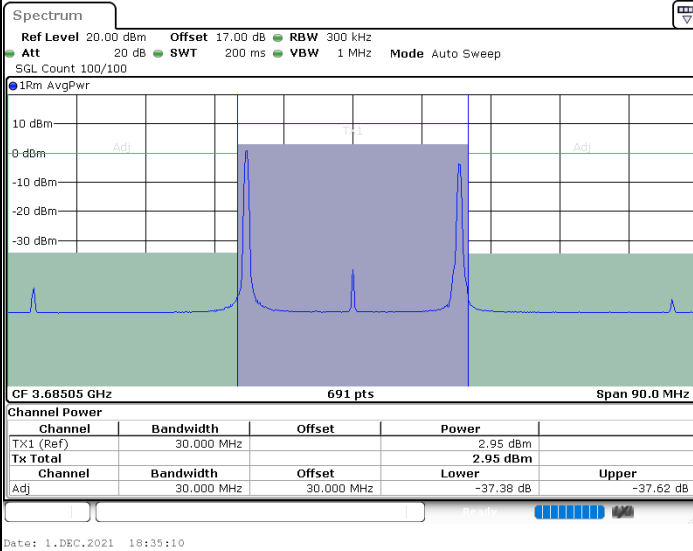


LTE Band 48C / 10MHz+20MHz

QPSK

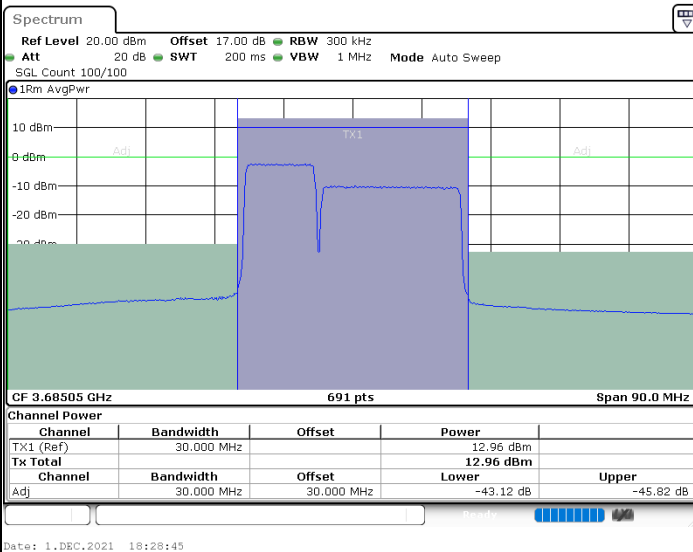
Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB49 and 1RB0



Highest Channel / FullRB

N/A



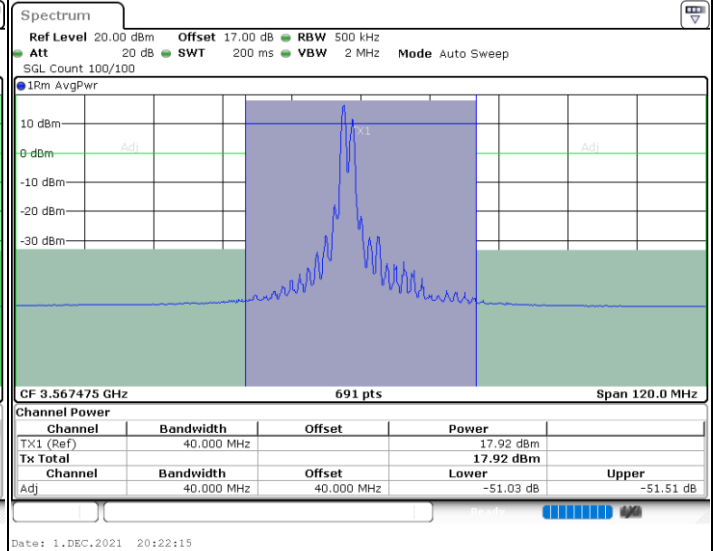
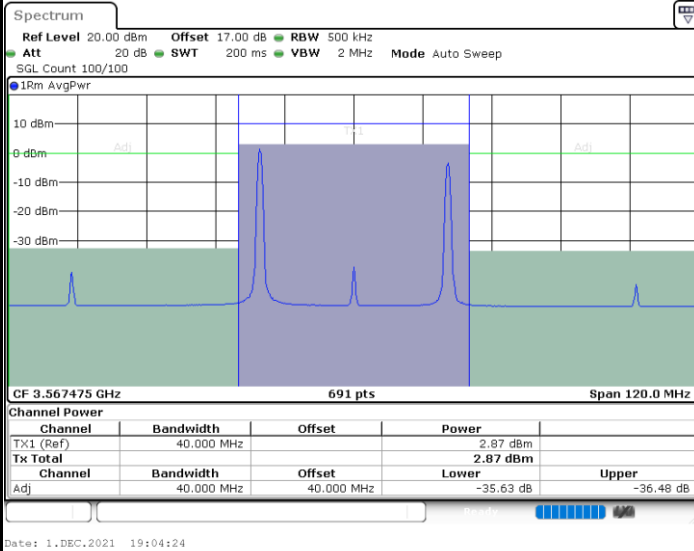


LTE Band 48C / 15MHz+20MHz

QPSK

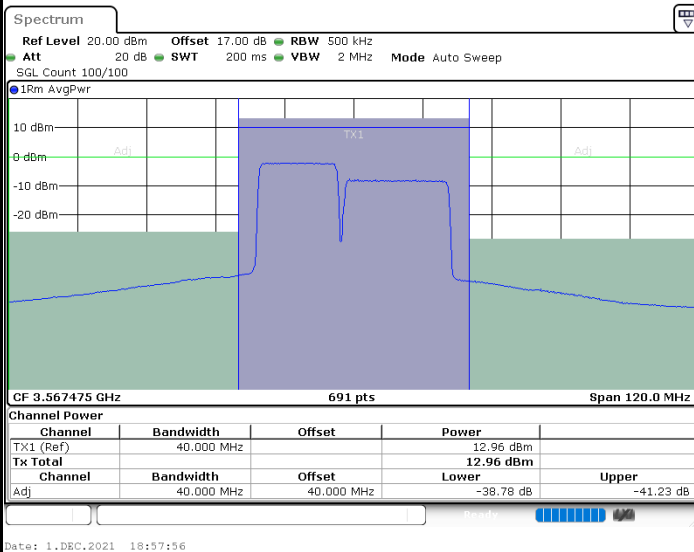
Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB74 and 1RB0



Lowest Channel / FullRB

N/A



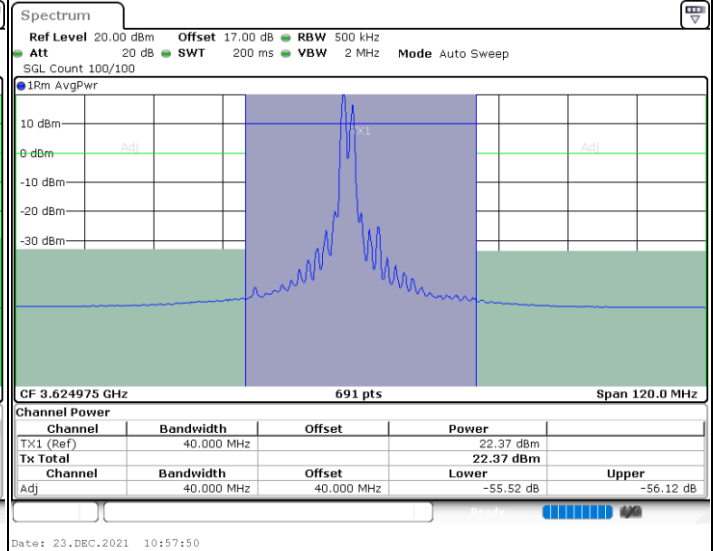
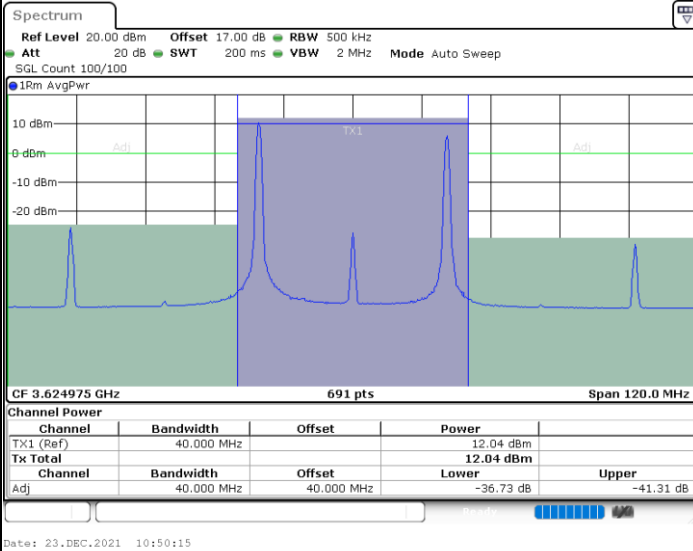


LTE Band 48C / 15MHz+20MHz

QPSK

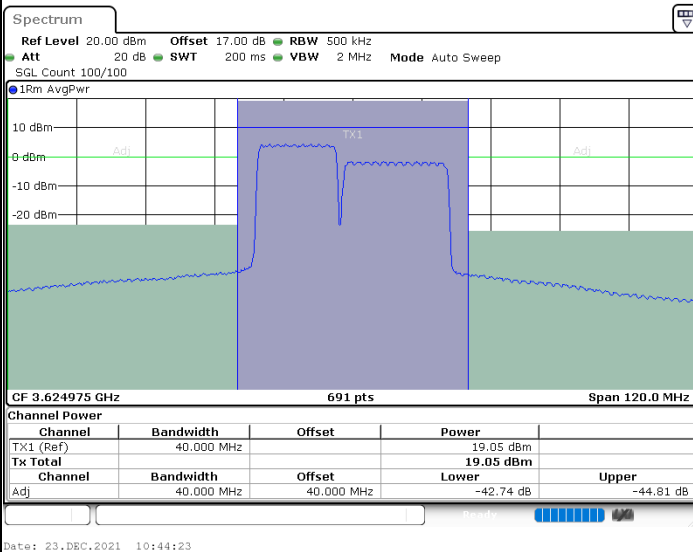
Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB74 and 1RB0



Middle Channel / FullRB

N/A



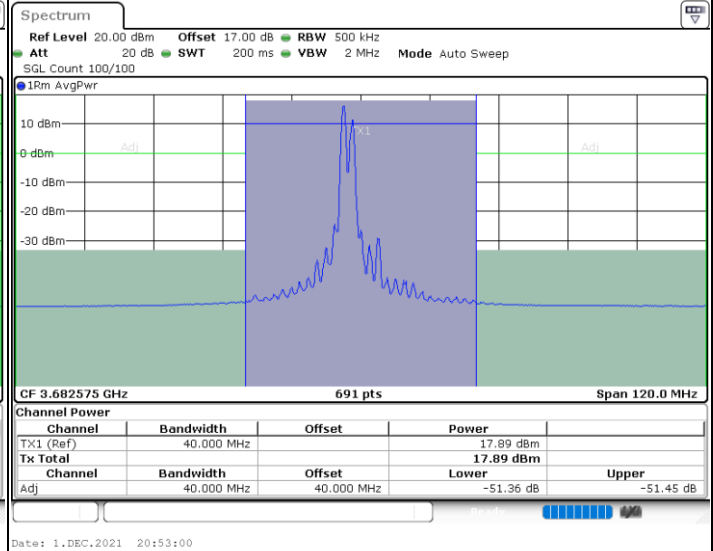
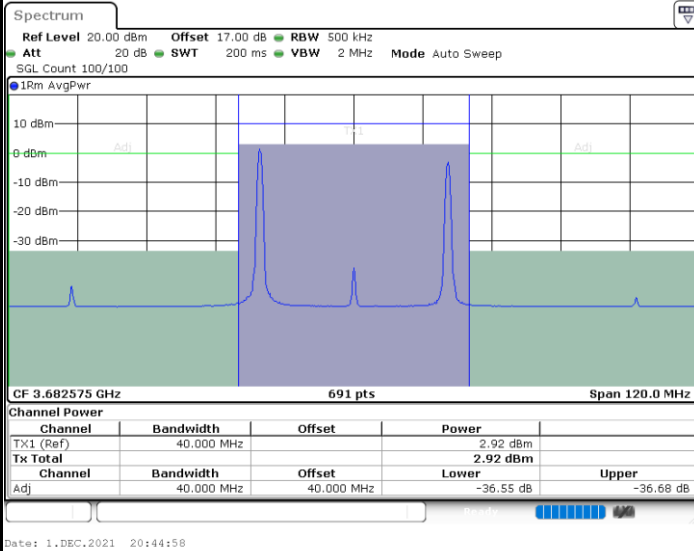


LTE Band 48C / 15MHz+20MHz

QPSK

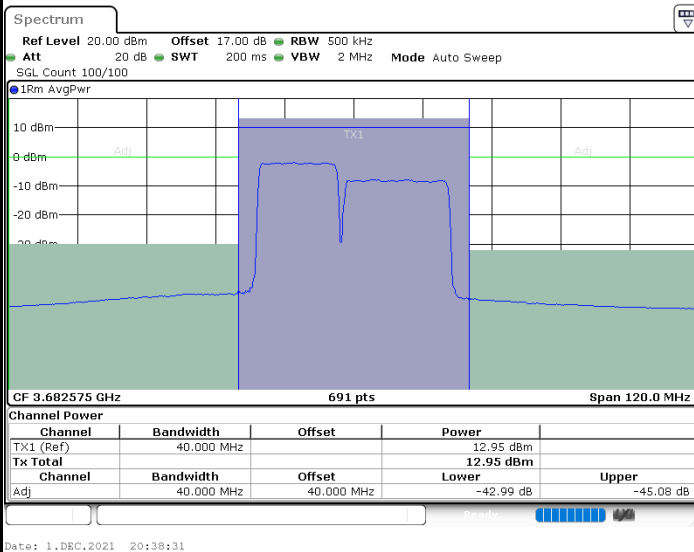
Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB74 and 1RB0



Highest Channel / FullRB

N/A



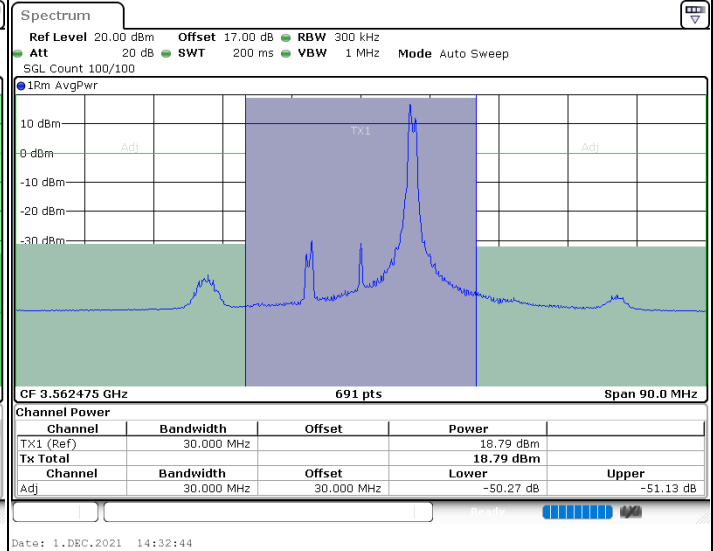
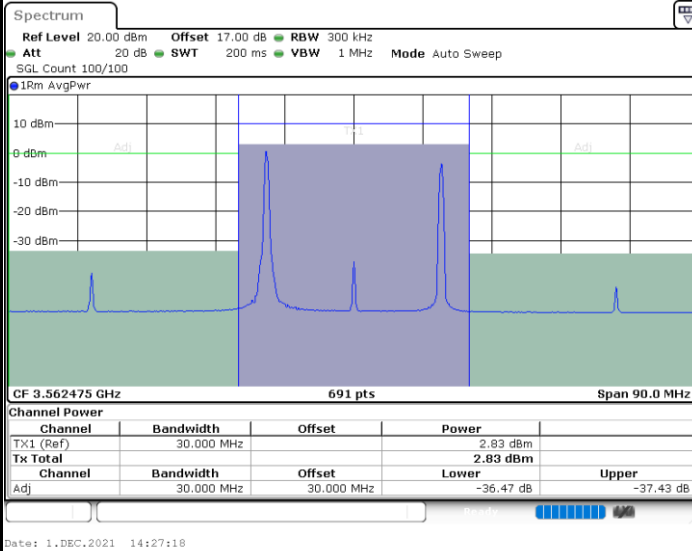


LTE Band 48C / 20MHz+5MHz

QPSK

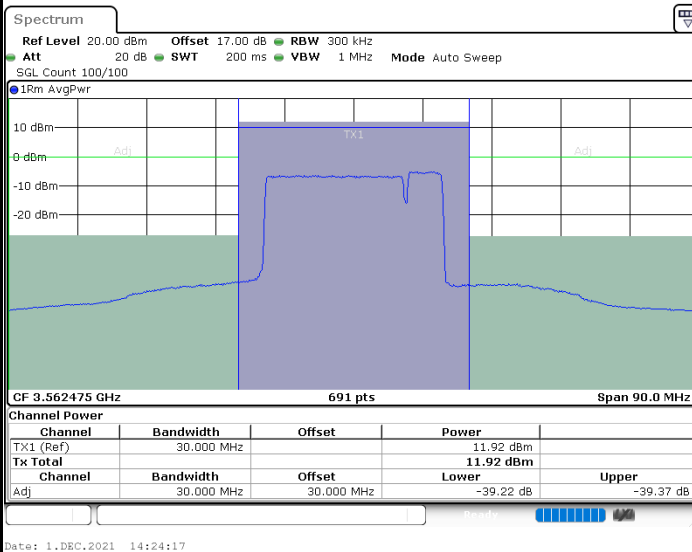
Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB99 and 1RB0



Lowest Channel / FullRB

N/A



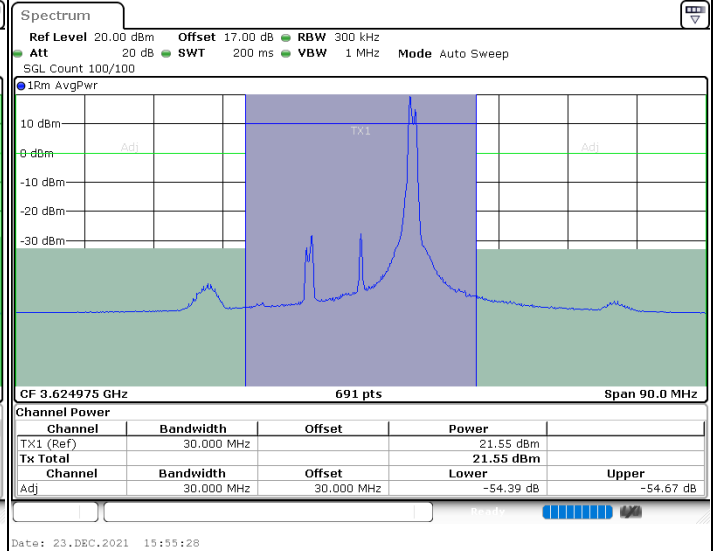
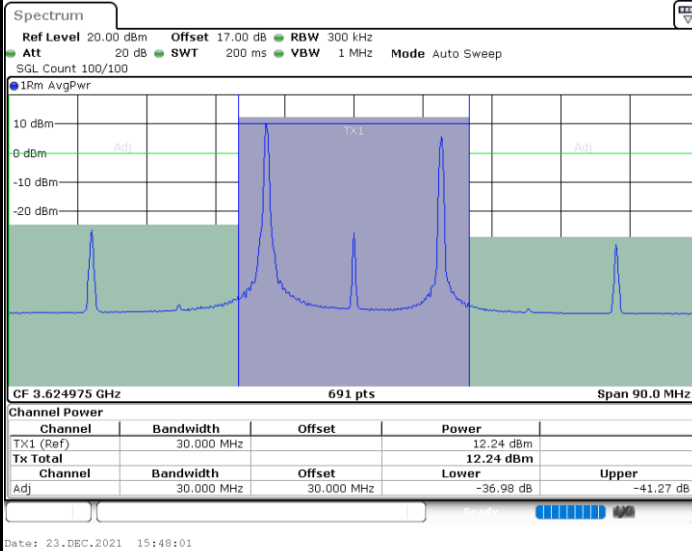


LTE Band 48C / 20MHz+5MHz

QPSK

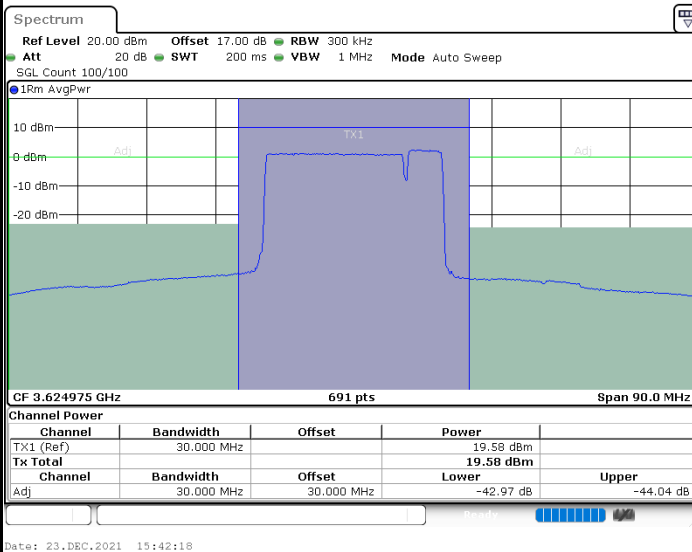
Middle Channel / 1RB0 and 1RB24

Middle Channel / 1RB99 and 1RB0



Middle Channel / FullRB

N/A



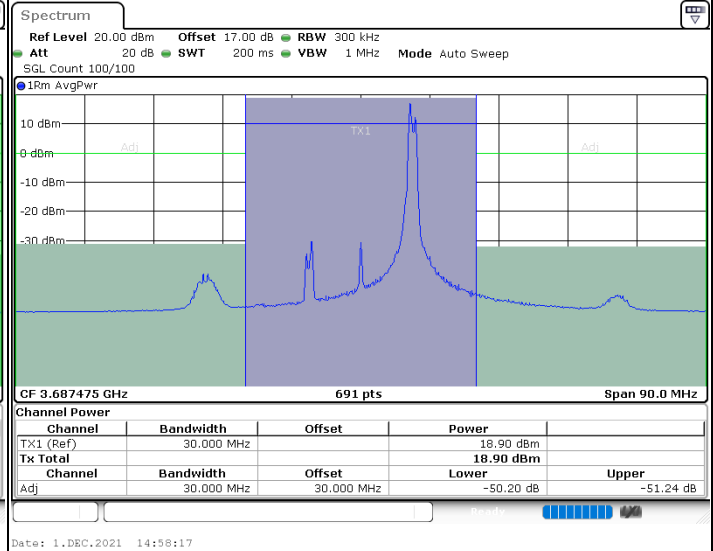
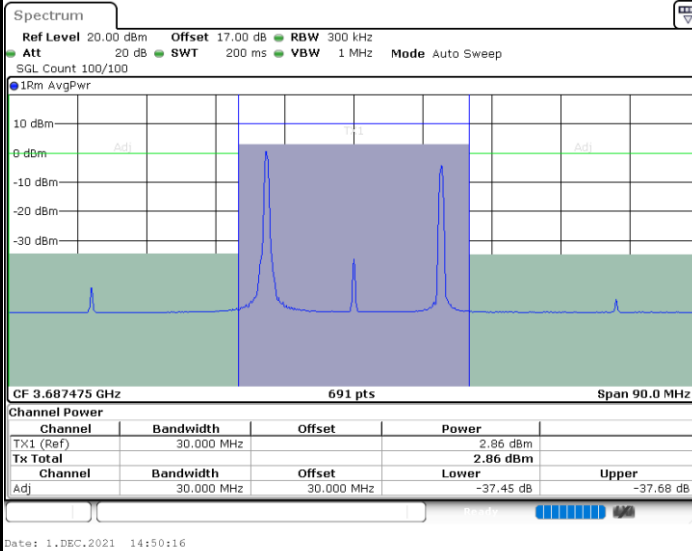


LTE Band 48C / 20MHz+5MHz

QPSK

Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB99 and 1RB0



Highest Channel / FullRB

N/A

