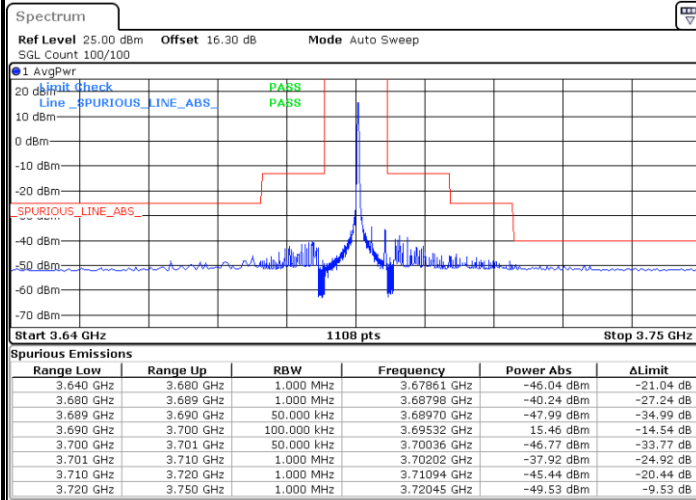




LTE Band 48 / 5MHz

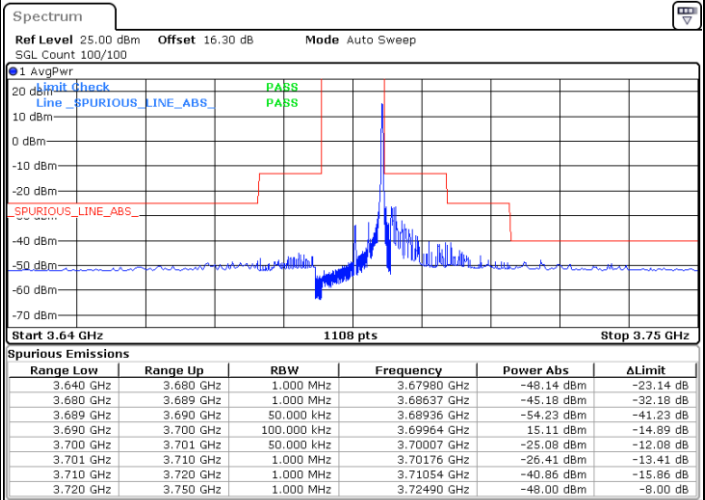
256QAM

Highest Channel / 1RB0



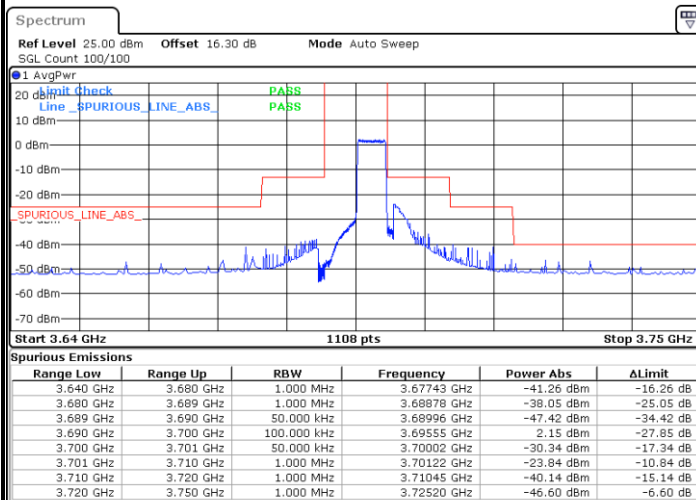
Date: 26.AUG.2022 14:24:14

Highest Channel / 1RBmax



Date: 26.AUG.2022 14:32:45

Highest Channel / FullIRB



Date: 26.AUG.2022 14:28:30

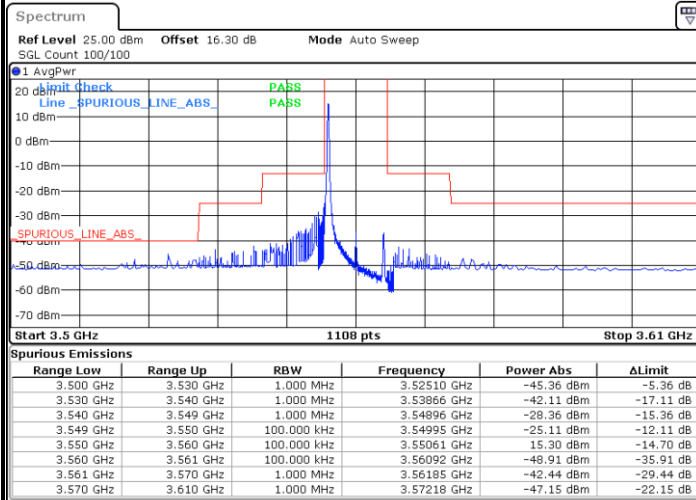
N/A



LTE Band 48 / 10MHz

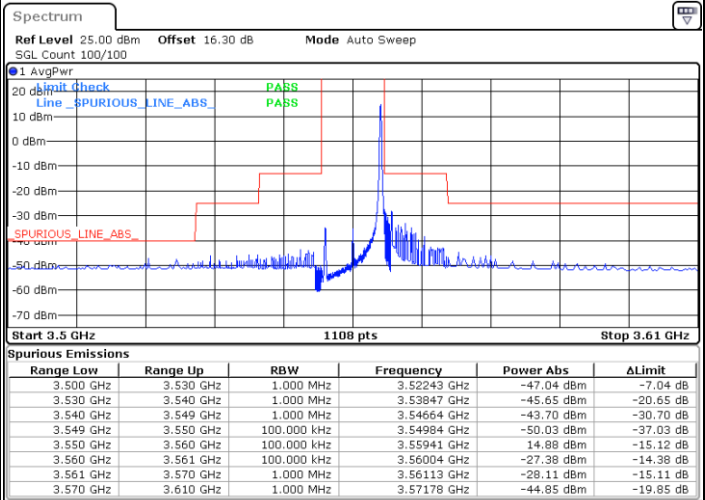
256QAM

Lowest Channel / 1RB0



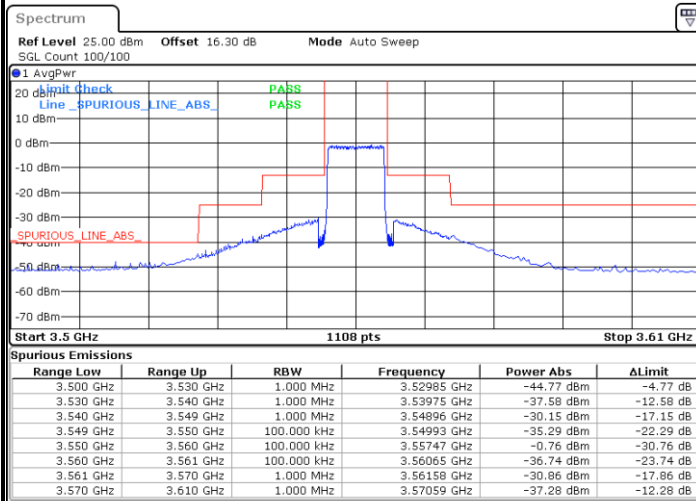
Date: 26.AUG.2022 14:39:04

Lowest Channel / 1RBmax



Date: 26.AUG.2022 14:47:32

Lowest Channel / FullIRB



Date: 26.AUG.2022 14:43:18

N/A

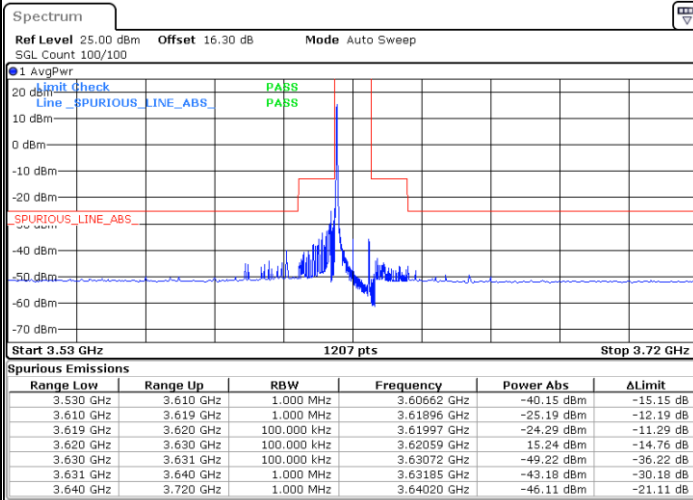


LTE Band 48 / 10MHz

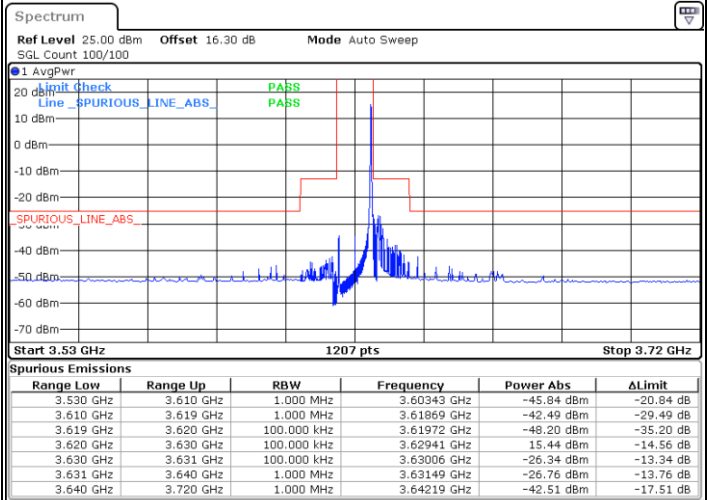
256QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



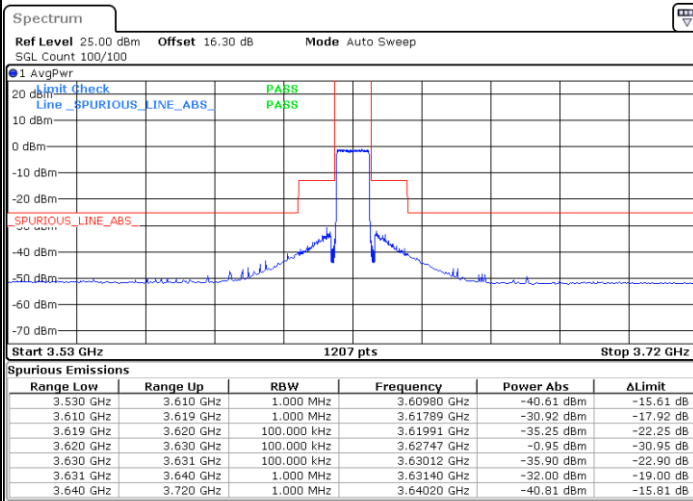
Date: 26.AUG.2022 14:40:43



Date: 26.AUG.2022 14:49:12

Middle Channel / FullRB

N/A



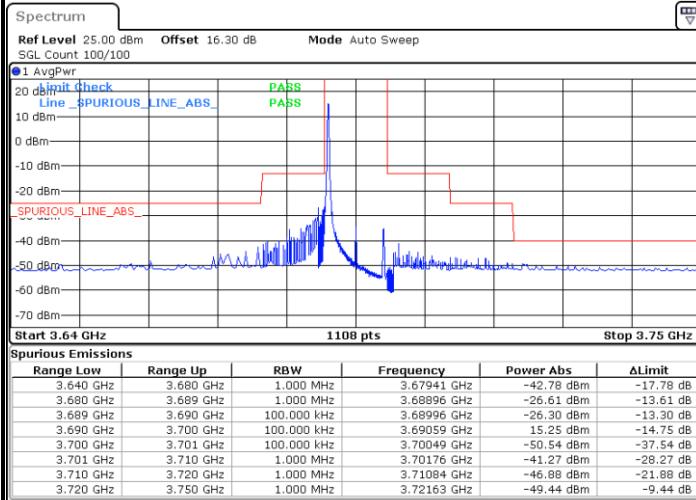
Date: 26.AUG.2022 14:44:57



LTE Band 48 / 10MHz

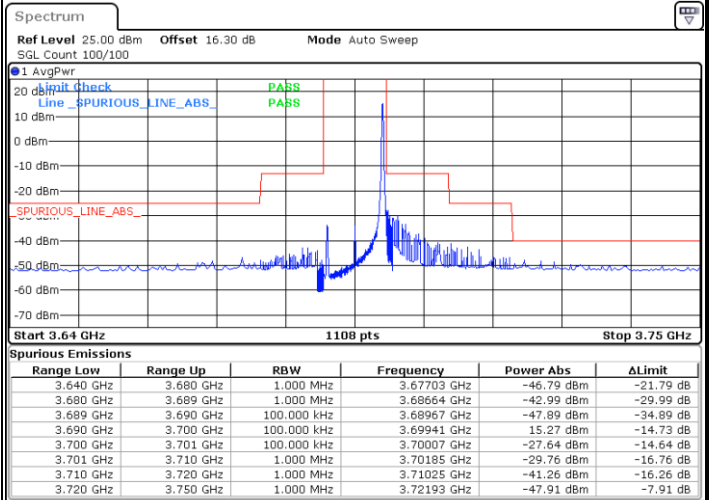
256QAM

Highest Channel / 1RB0



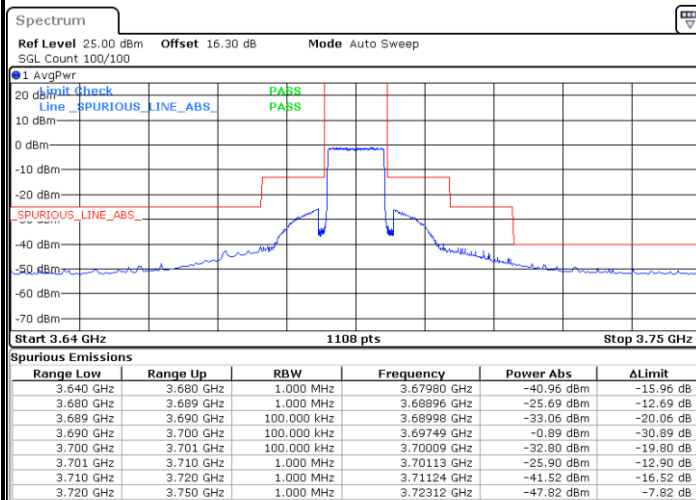
Date: 26.AUG.2022 14:42:22

Highest Channel / 1RBmax



Date: 26.AUG.2022 14:50:51

Highest Channel / FullIRB



Date: 26.AUG.2022 14:46:37

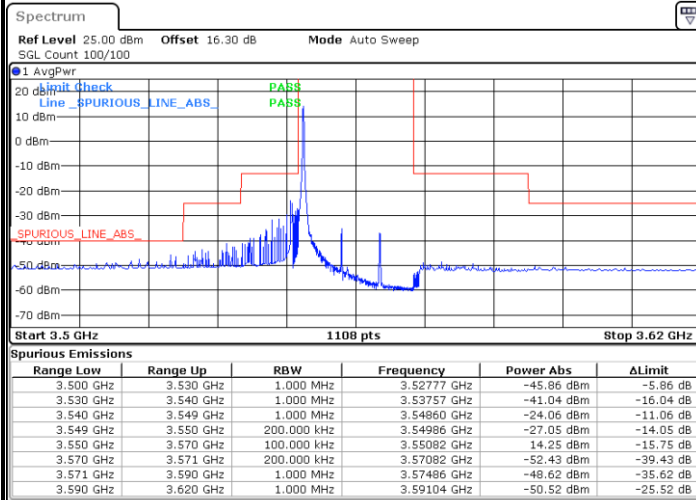
N/A



LTE Band 48 / 15MHz

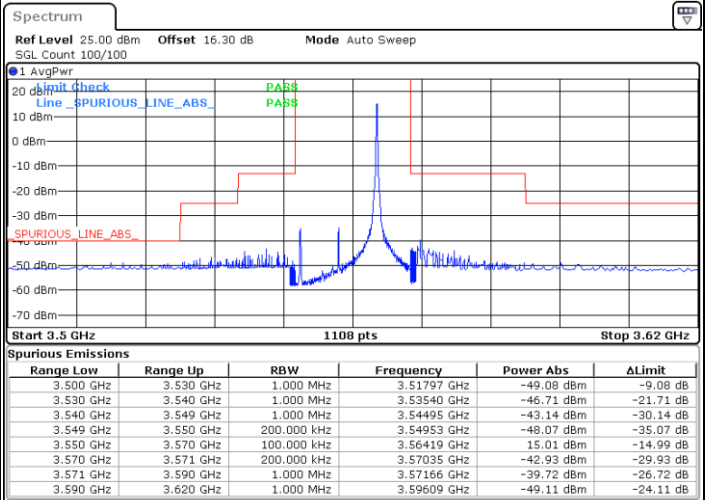
256QAM

Lowest Channel / 1RB0



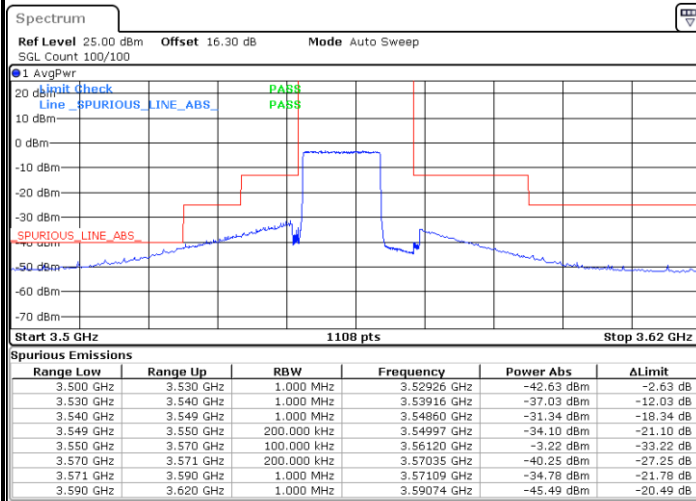
Date: 26.AUG.2022 15:07:09

Lowest Channel / 1RBmax



Date: 26.AUG.2022 15:15:40

Lowest Channel / FullRB



Date: 26.AUG.2022 15:11:24

N/A

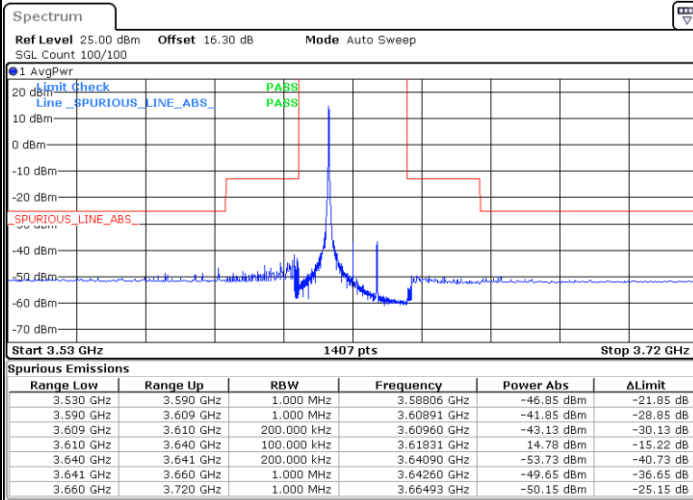


LTE Band 48 / 15MHz

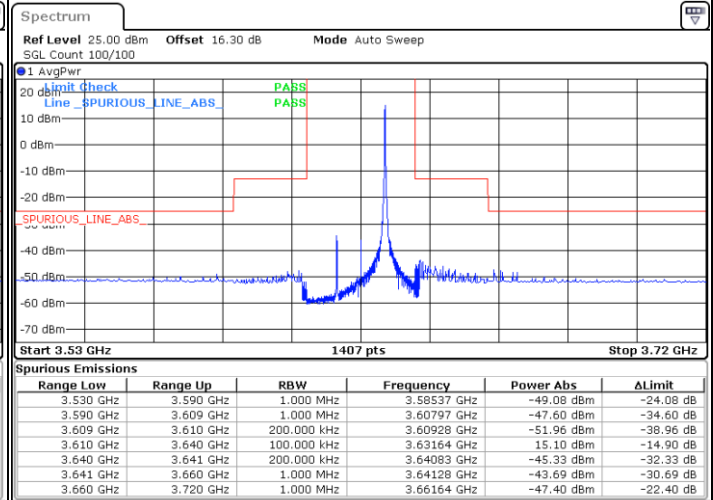
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



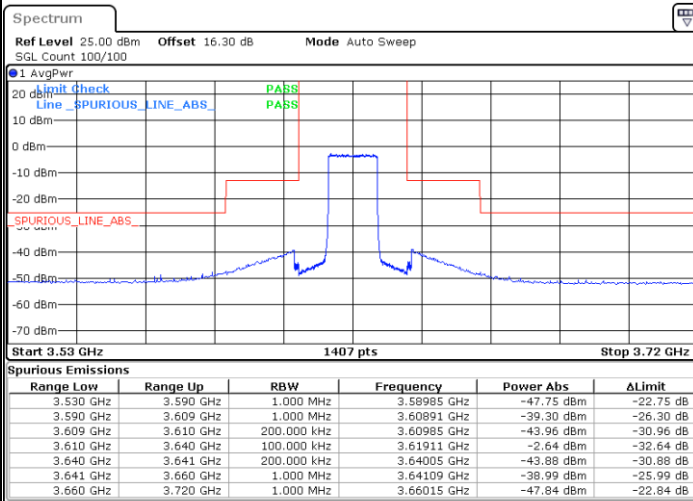
Date: 26.AUG.2022 15:08:49



Date: 26.AUG.2022 15:17:19

Middle Channel / FullRB

N/A



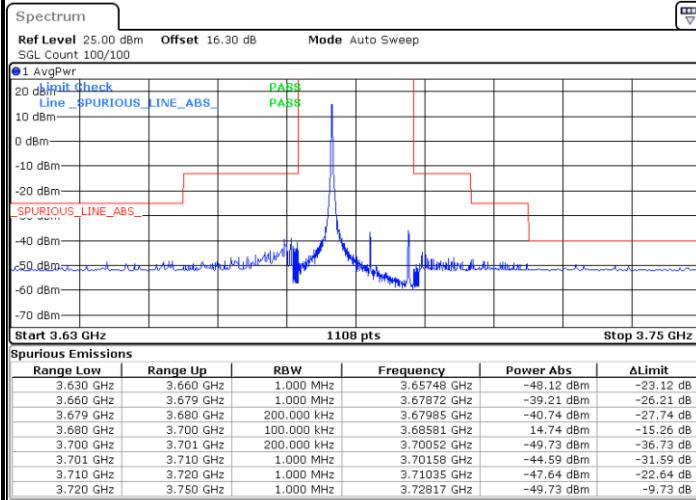
Date: 26.AUG.2022 15:13:04



LTE Band 48 / 15MHz

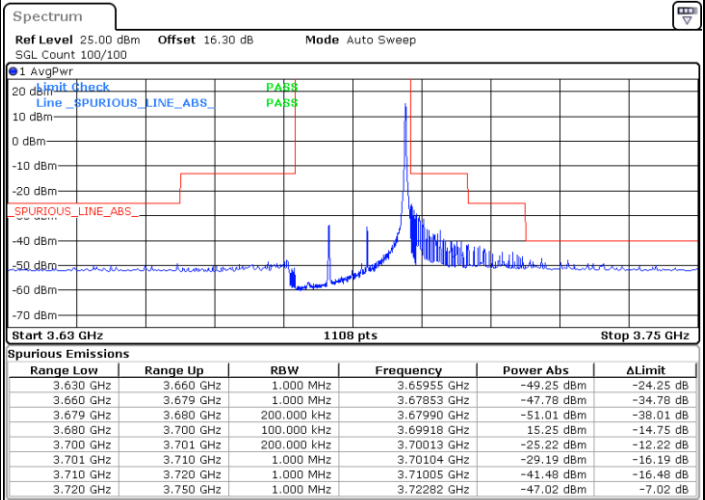
256QAM

Highest Channel / 1RB0



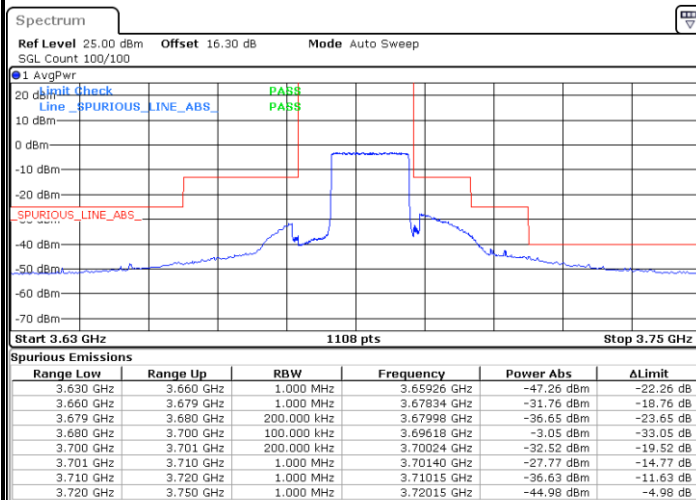
Date: 26.AUG.2022 15:10:29

Highest Channel / 1RBmax



Date: 26.AUG.2022 15:18:58

Highest Channel / FullIRB



Date: 26.AUG.2022 15:14:44

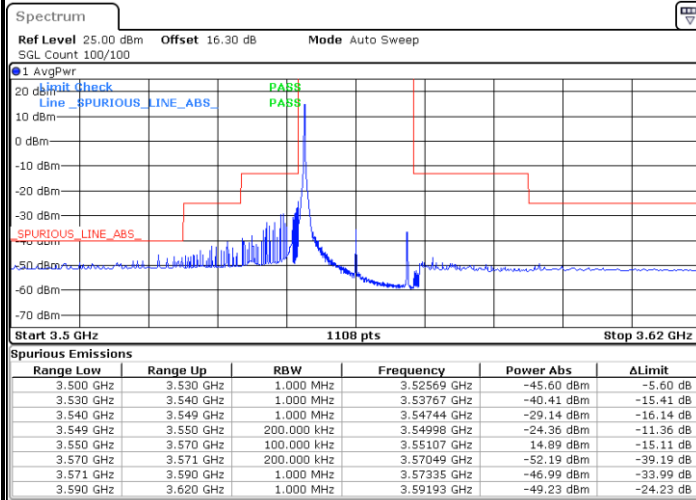
N/A



LTE Band 48 / 20MHz

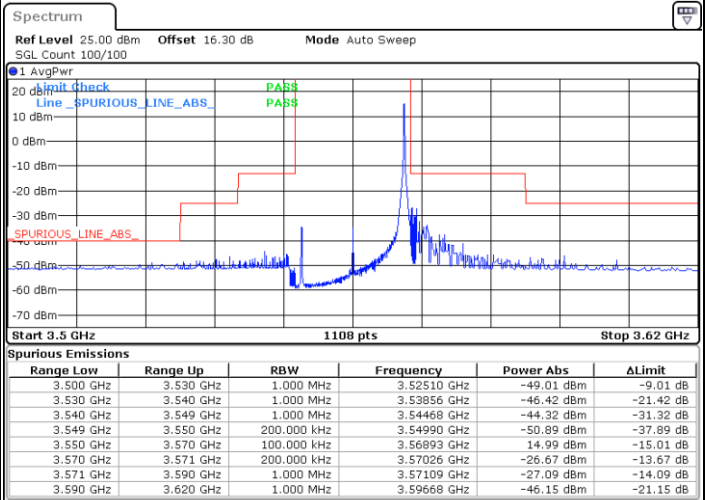
256QAM

Lowest Channel / 1RB0



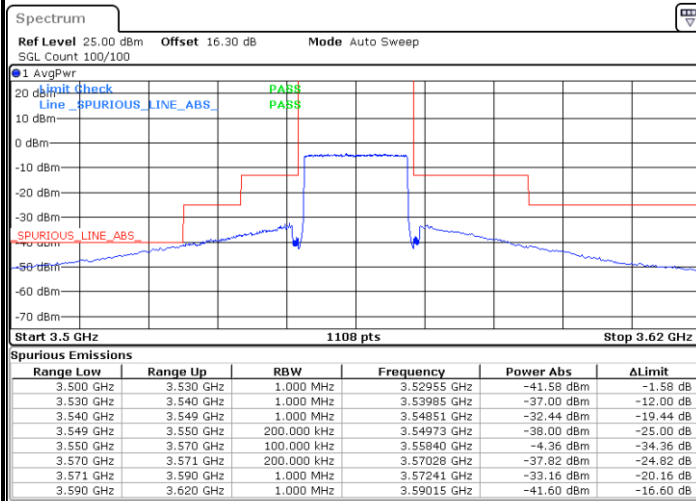
Date: 26.AUG.2022 15:45:43

Lowest Channel / 1RBmax



Date: 26.AUG.2022 15:49:58

Lowest Channel / FullRB



Date: 26.AUG.2022 15:41:27

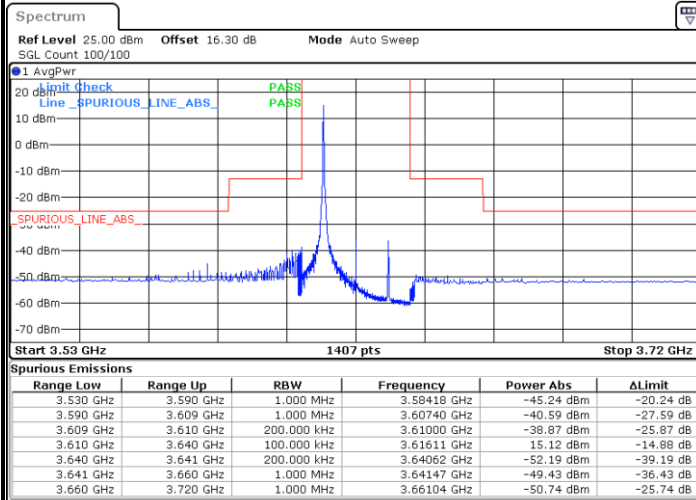
N/A



LTE Band 48 / 20MHz

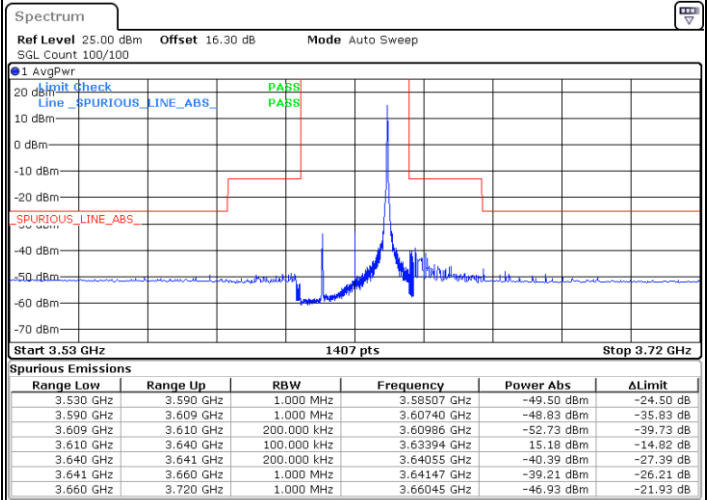
256QAM

Middle Channel / 1RB0



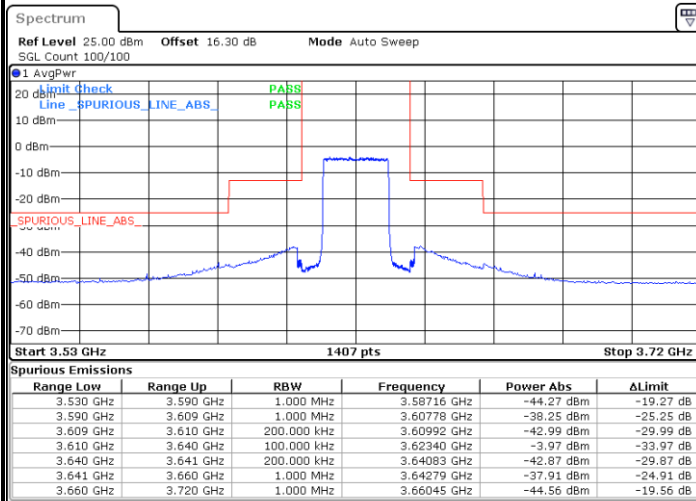
Date: 26.AUG.2022 15:47:23

Middle Channel / 1RBmax



Date: 26.AUG.2022 15:51:38

Middle Channel / FullRB



Date: 26.AUG.2022 15:43:07

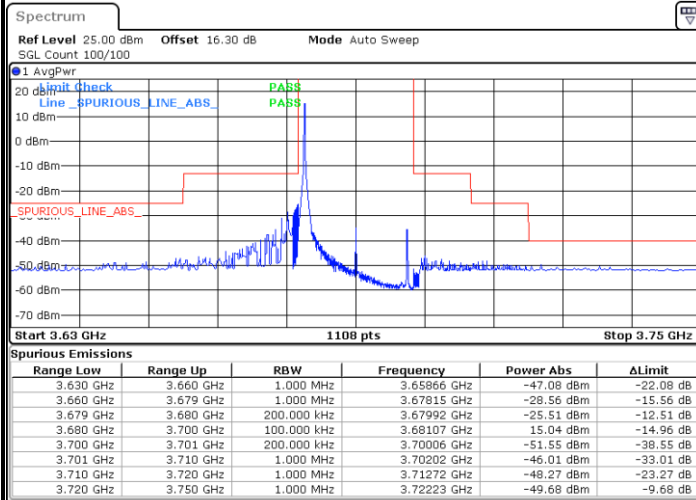
N/A



LTE Band 48 / 20MHz

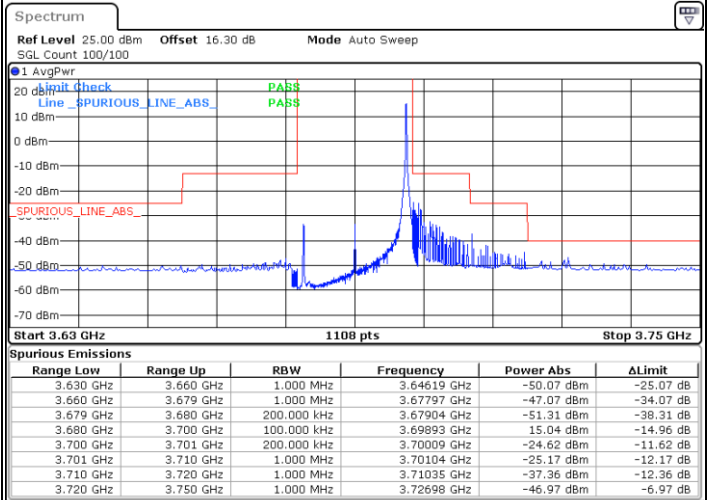
256QAM

Highest Channel / 1RB0



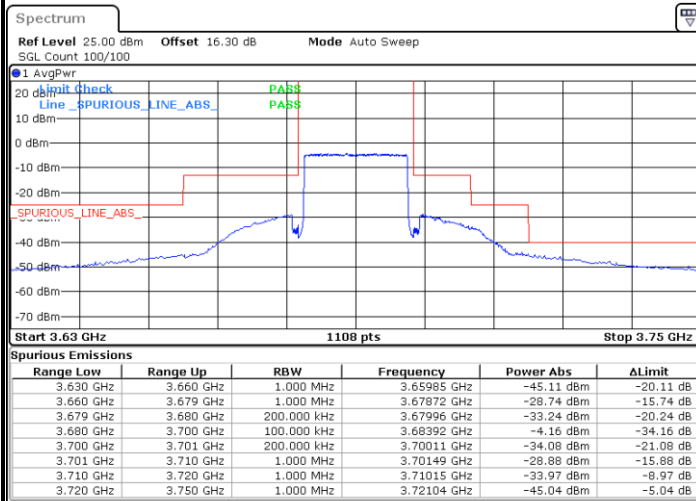
Date: 26.AUG.2022 15:49:02

Highest Channel / 1RBmax



Date: 26.AUG.2022 15:53:18

Highest Channel / FullIRB



Date: 26.AUG.2022 15:44:47

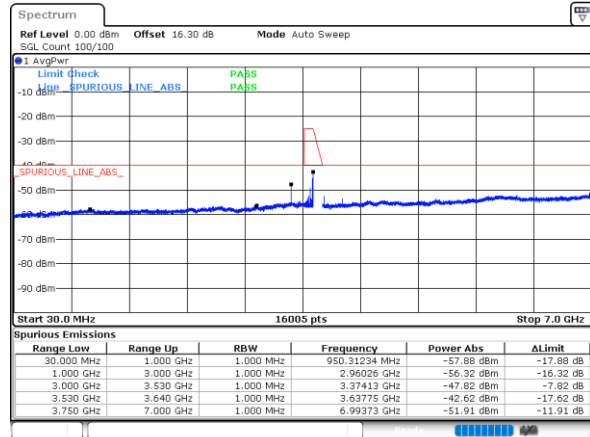
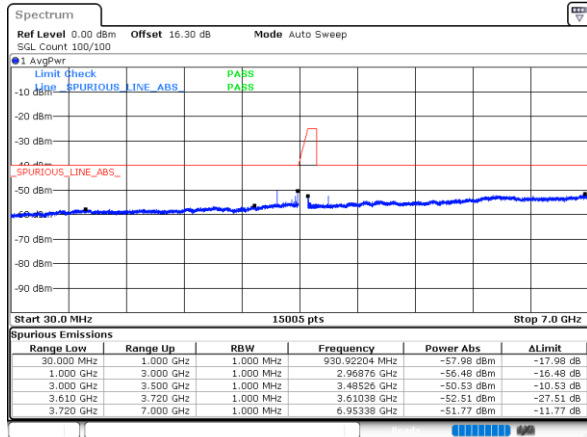
N/A



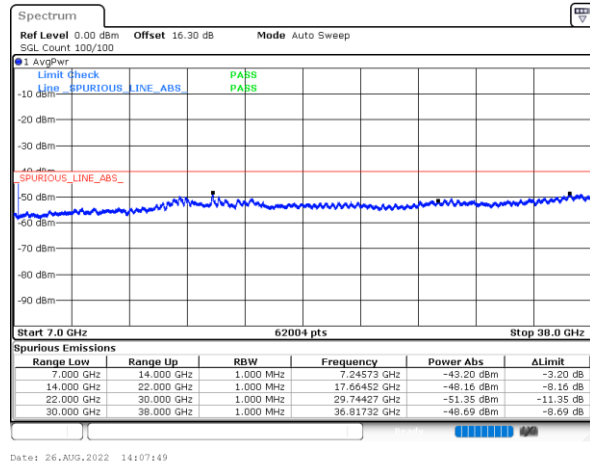
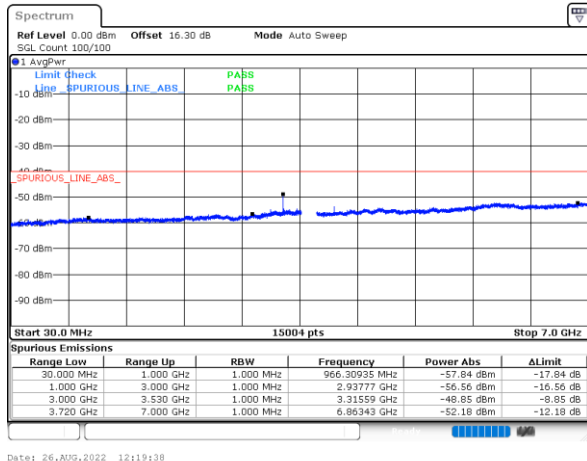
Conducted Spurious Emission

LTE Band 48 / 5MHz

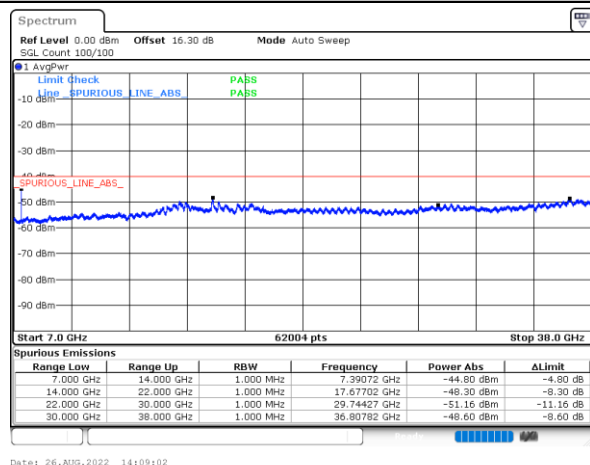
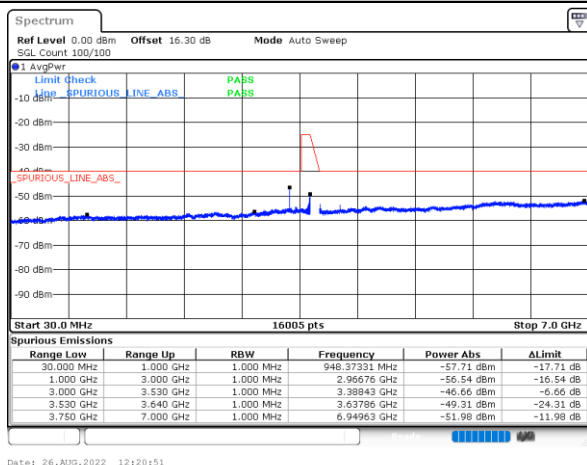
Lowest Channel / QPSK



Middle Channel / QPSK



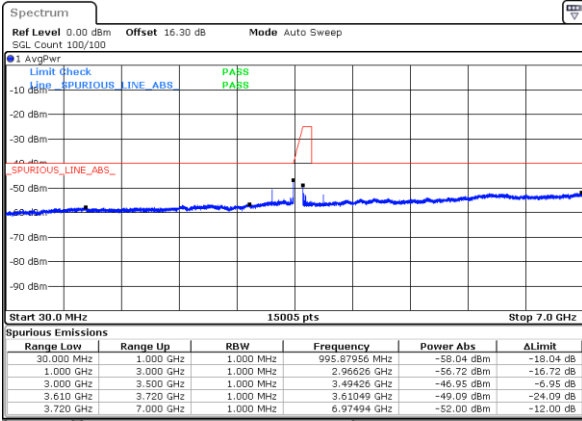
Highest Channel / QPSK



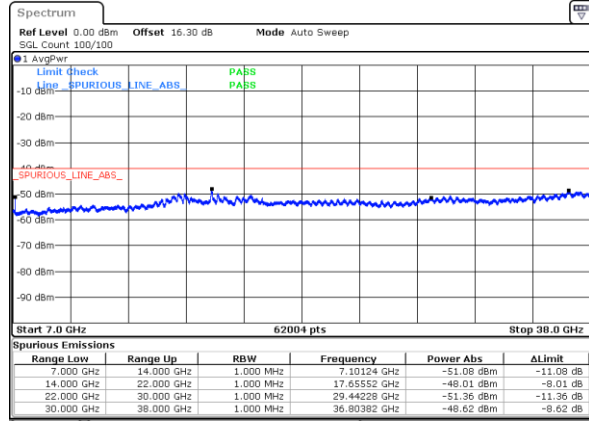


LTE Band 48 / 10MHz

Lowest Channel / QPSK

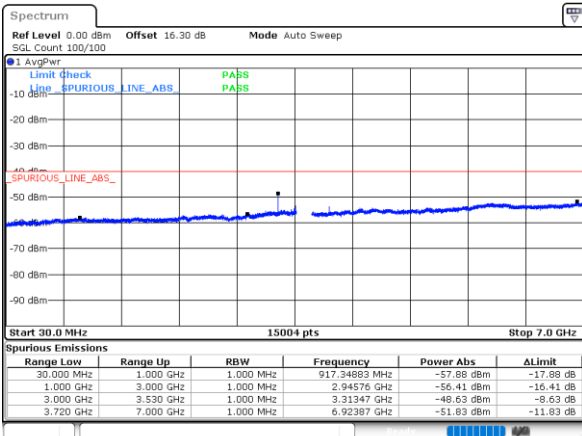


Date: 26.AUG.2022 12:22:04

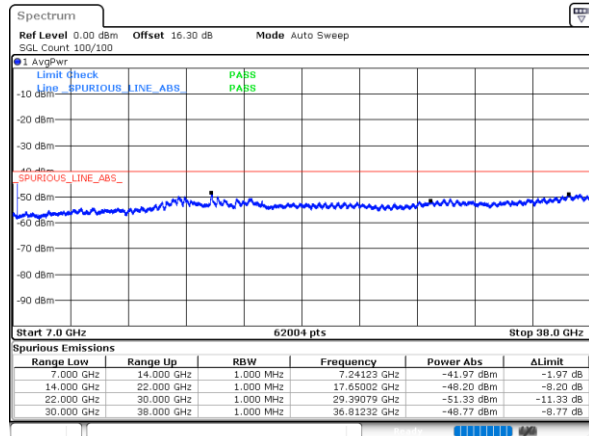


Date: 26.AUG.2022 14:10:16

Middle Channel / QPSK

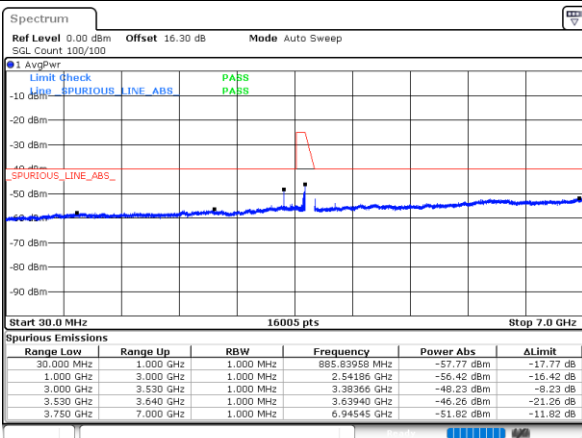


Date: 26.AUG.2022 12:23:17

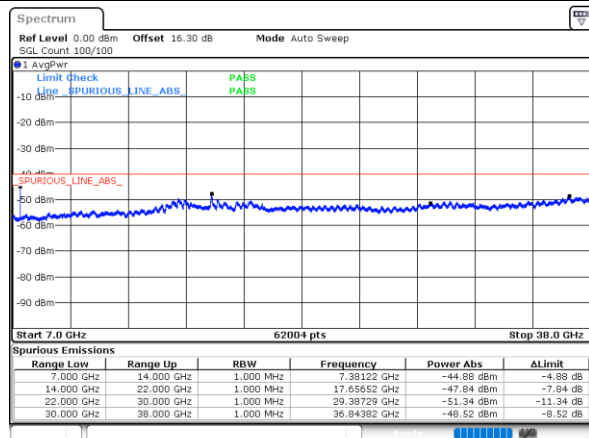


Date: 26.AUG.2022 14:11:29

Highest Channel / QPSK



Date: 26.AUG.2022 12:24:29

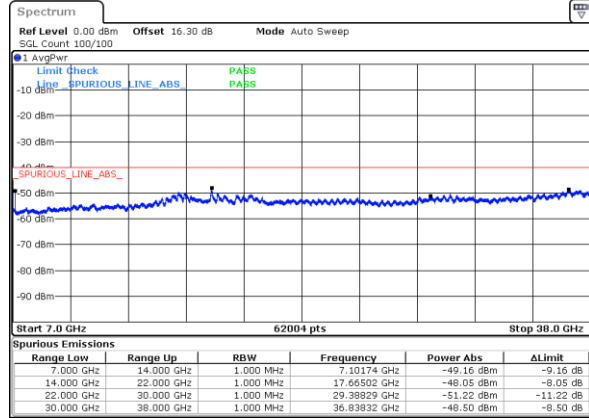
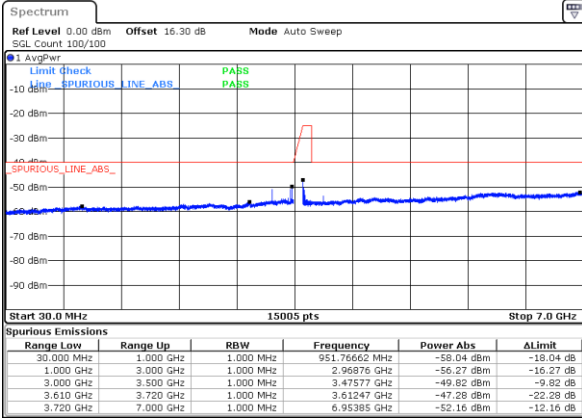


Date: 26.AUG.2022 14:12:41

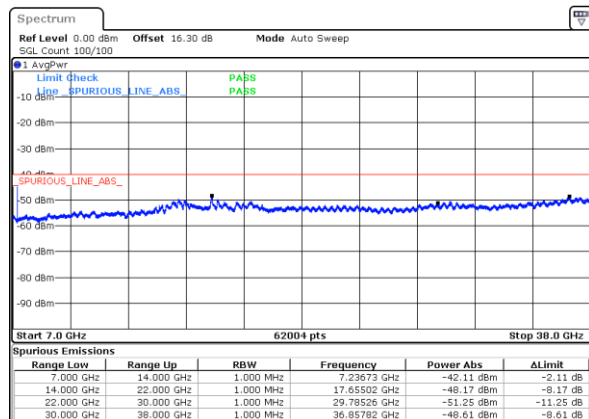
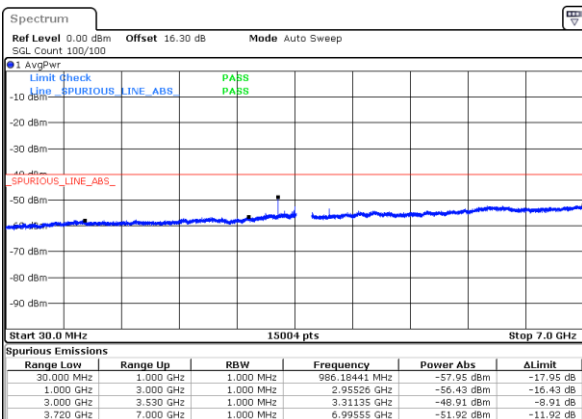


LTE Band 48 / 15MHz

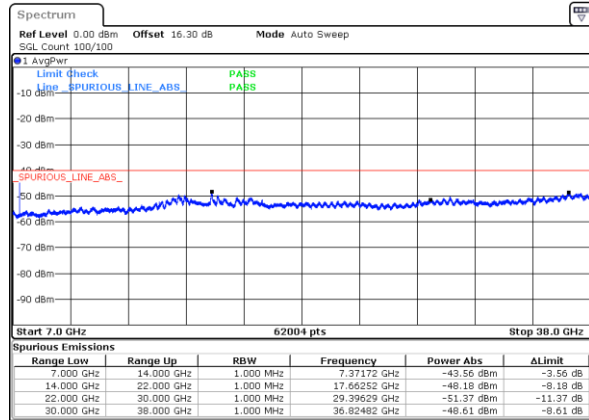
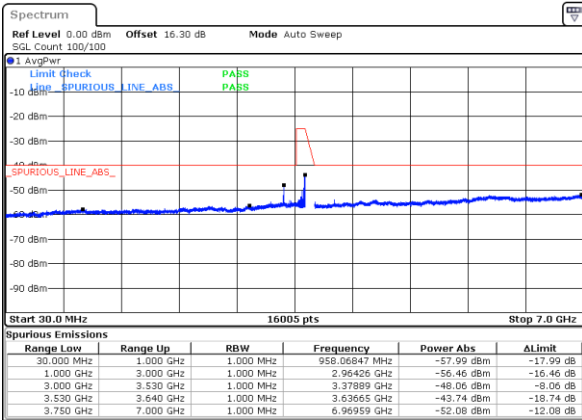
Lowest Channel / QPSK



Middle Channel / QPSK



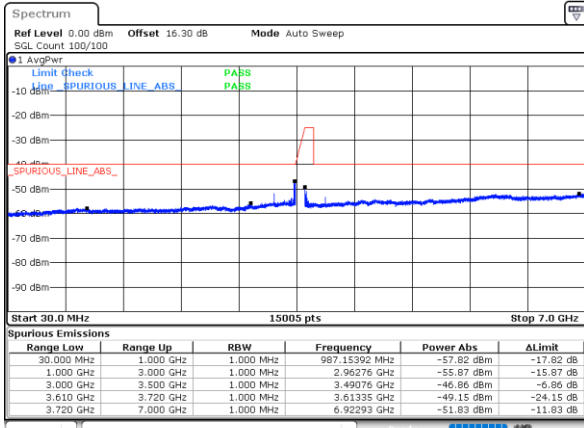
Highest Channel / QPSK



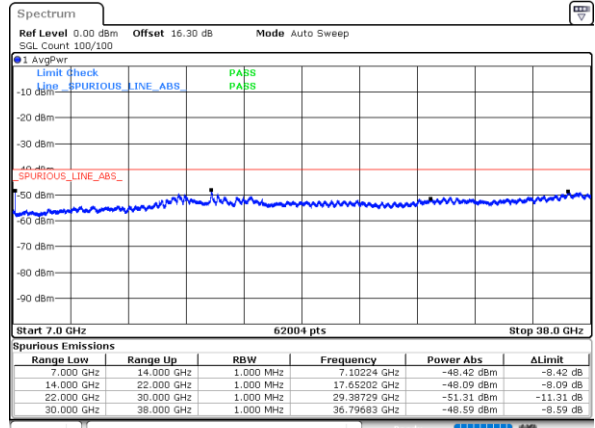


LTE Band 48 / 20MHz

Lowest Channel / QPSK

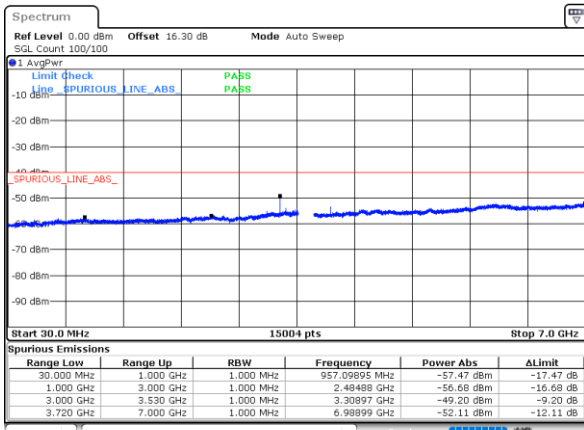


Date: 26.AUG.2022 12:29:21

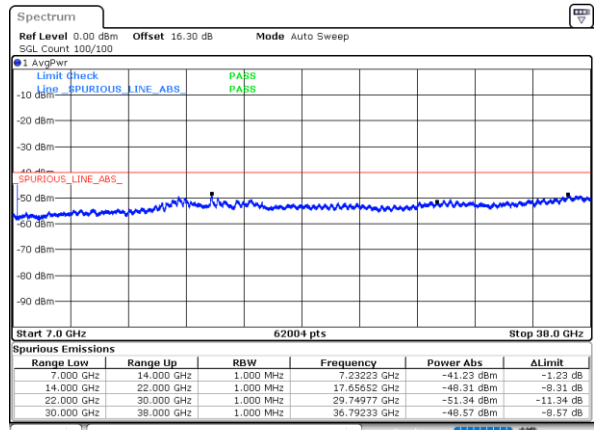


Date: 26.AUG.2022 14:17:35

Middle Channel / QPSK

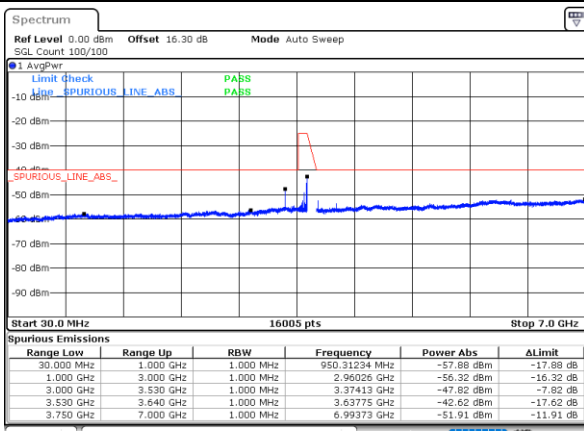


Date: 26.AUG.2022 12:30:34

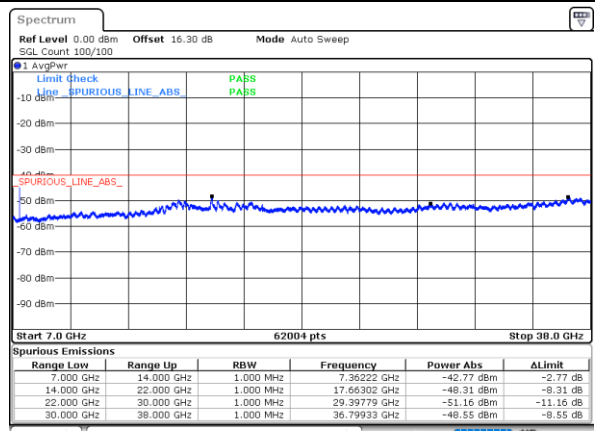


Date: 26.AUG.2022 14:18:48

Highest Channel / QPSK



Date: 26.AUG.2022 12:31:46



Date: 26.AUG.2022 14:20:01

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	0.0015	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0028	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0035	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage = 4.05 V. ; Battery End Point (ACLRP) = 3.85 V. ; Maximum Voltage = 4.35 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	29.79	34.90	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.91	34.83	39.88	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.83	29.79	34.83	24.98
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	34.97	39.72	-

Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.68	29.91	34.90	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.15	34.83	40.04	-

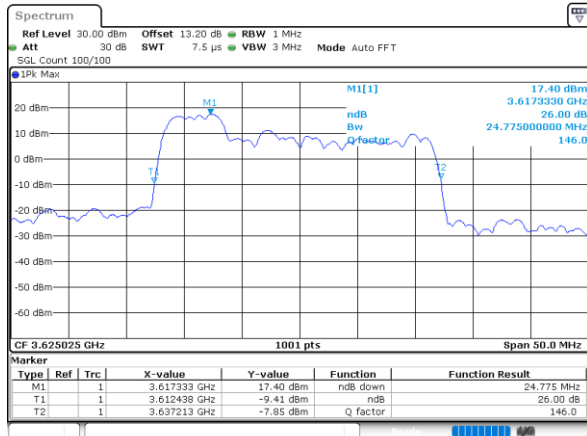
Mode	LTE Band 48C : 26dB BW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.58	29.73	34.69	24.98
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.91	35.04	39.72	-



LTE Band 48C

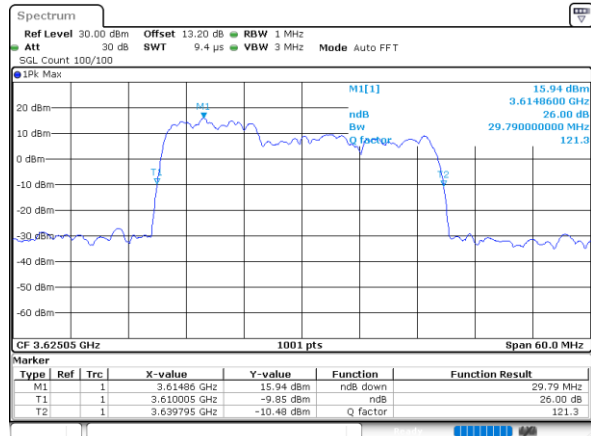
QPSK

Middle Channel / 5MHz+20MHz



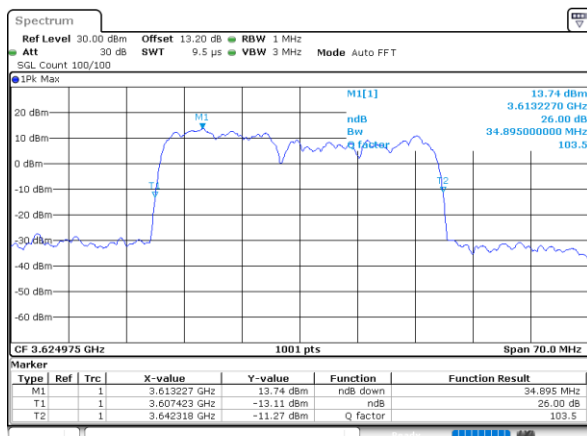
Date: 3.OCT.2022 17:33:53

Middle Channel / 10MHz+20MHz



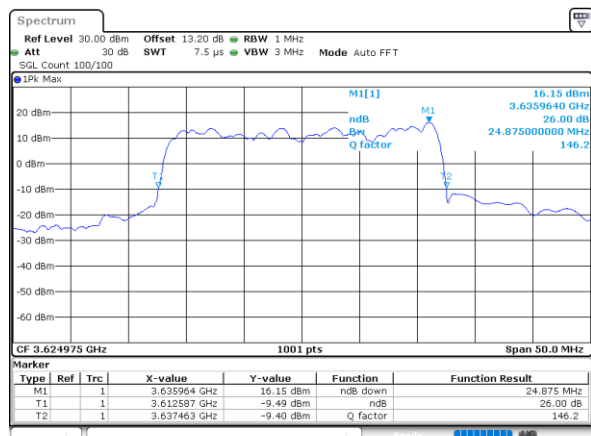
Date: 3.OCT.2022 17:39:11

Middle Channel / 15MHz+20MHz



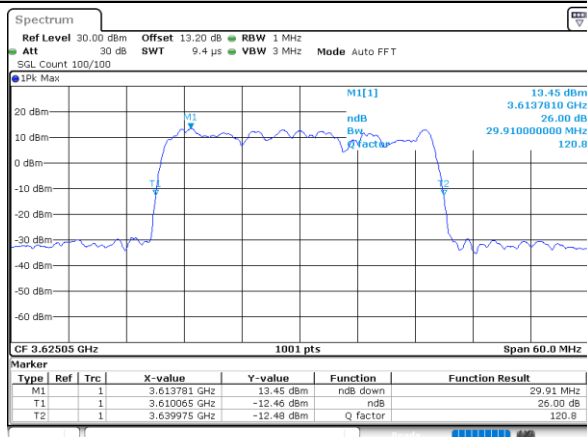
Date: 3.OCT.2022 17:44:25

Middle Channel / 20MHz+5MHz



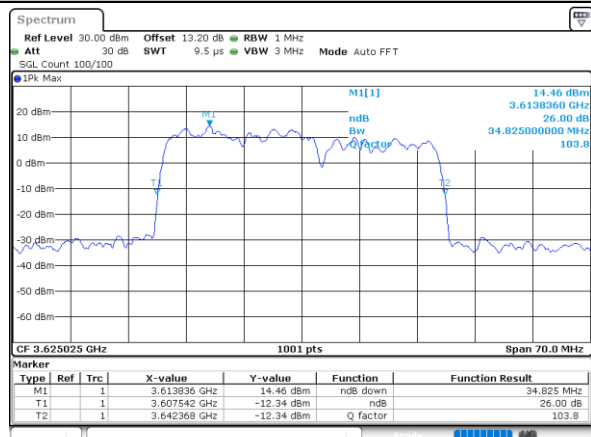
Date: 3.OCT.2022 17:49:40

Middle Channel / 20MHz+10MHz



Date: 3.OCT.2022 17:54:57

Middle Channel / 20MHz+15MHz



Date: 3.OCT.2022 18:00:11

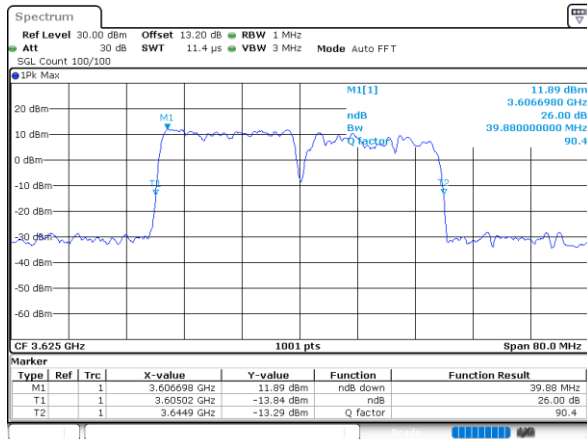


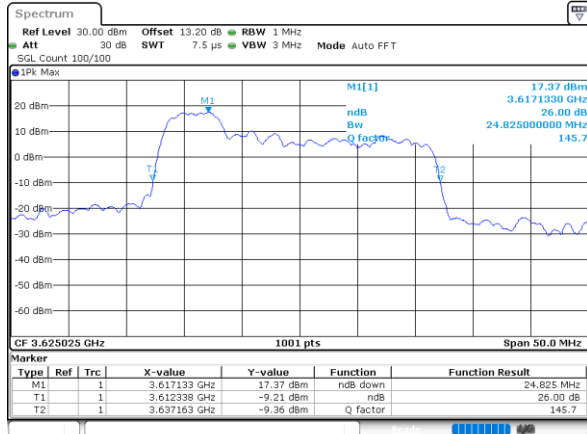
LTE Band 48C

QPSK

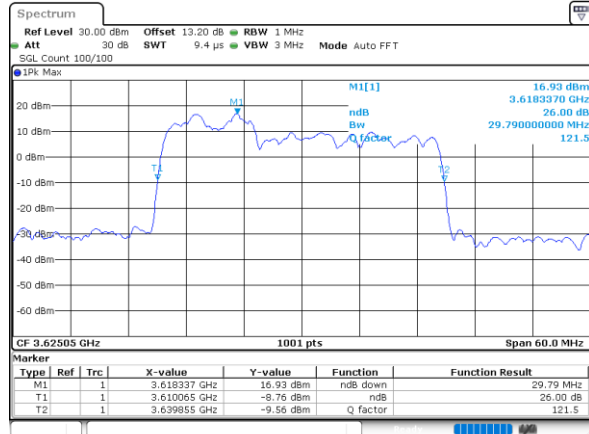
Middle Channel / 20MHz+20MHz

N/A

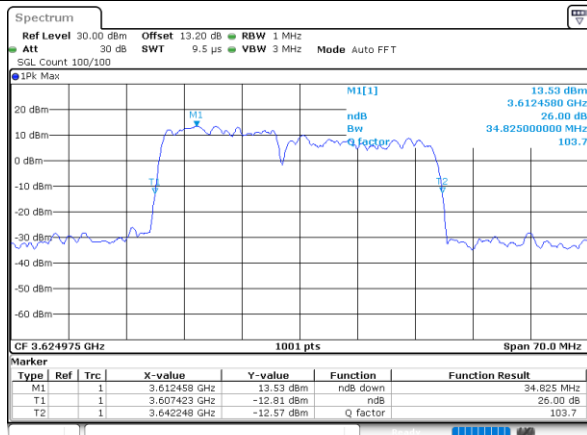


LTE Band 48C
16QAM
Middle Channel / 5MHz+20MHz


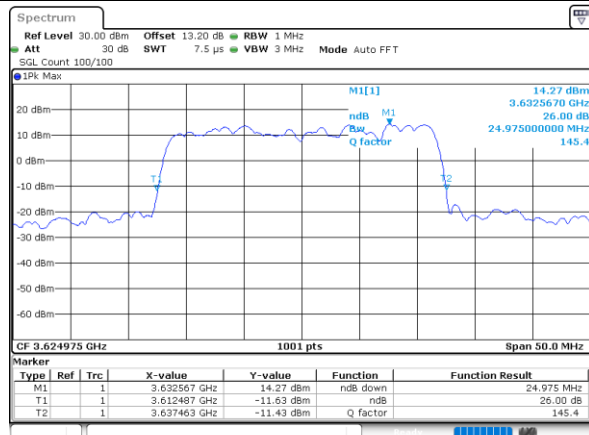
Date: 3.OCT.2022 17:34:34

Middle Channel / 10MHz+20MHz


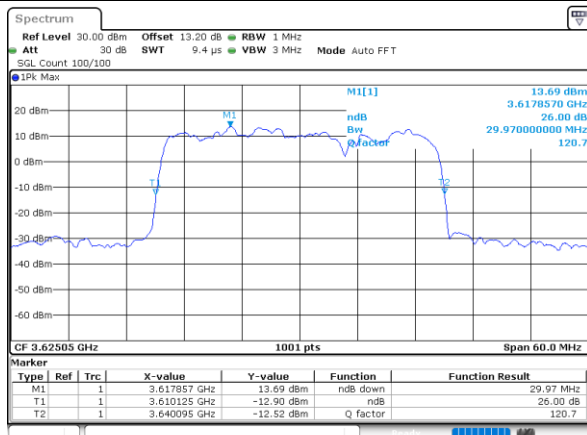
Date: 3.OCT.2022 17:39:49

Middle Channel / 15MHz+20MHz


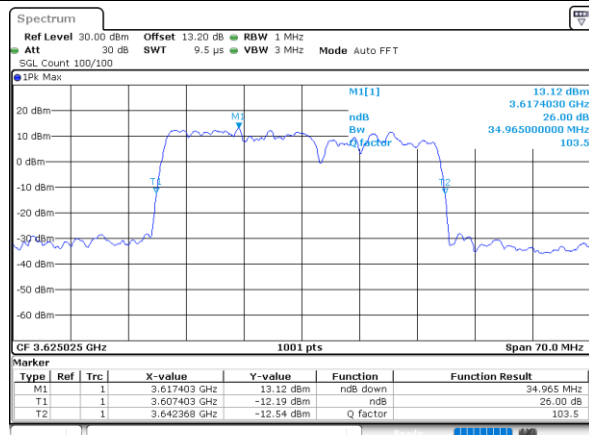
Date: 3.OCT.2022 17:45:04

Middle Channel / 20MHz+5MHz


Date: 3.OCT.2022 17:50:19

Middle Channel / 20MHz+10MHz


Date: 3.OCT.2022 17:55:35

Middle Channel / 20MHz+15MHz


Date: 3.OCT.2022 18:00:52

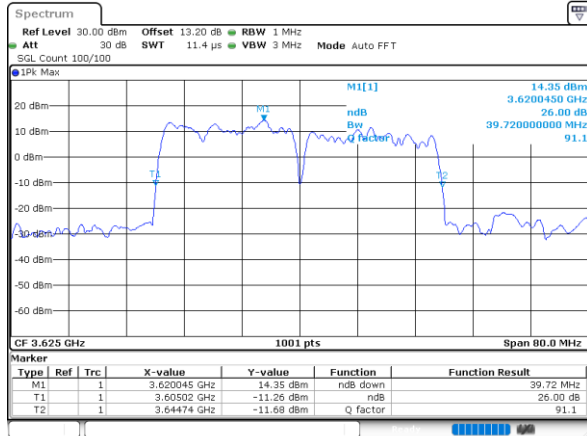


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A

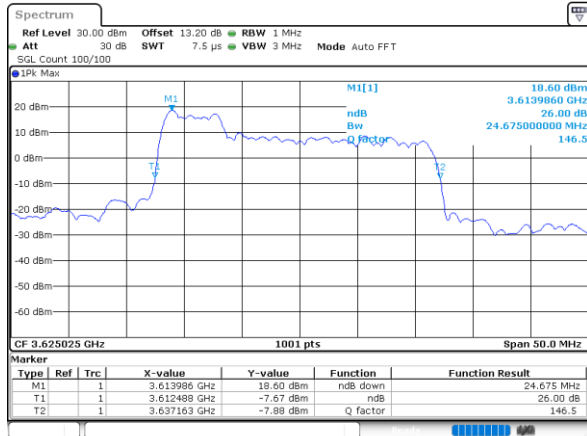




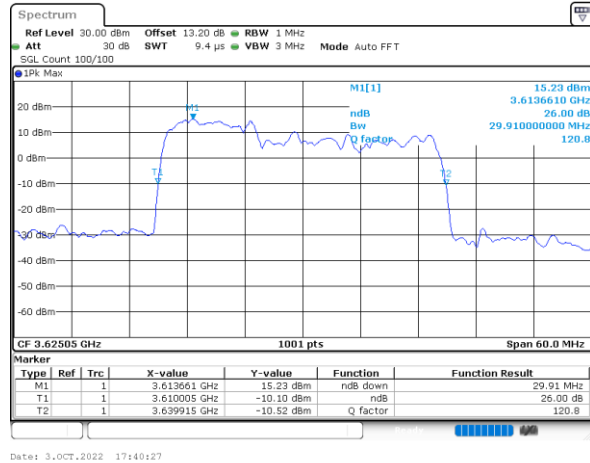
LTE Band 48C

64QAM

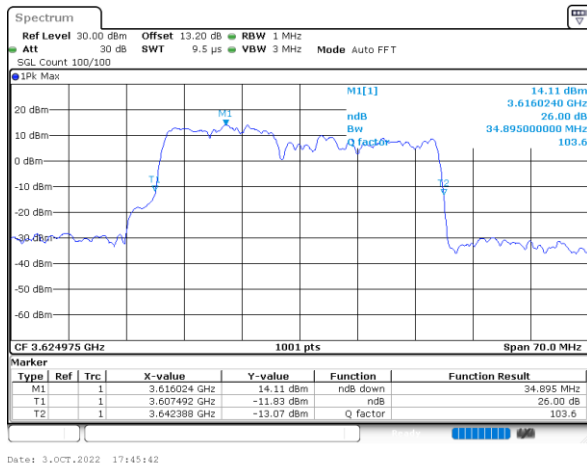
Middle Channel / 5MHz+20MHz



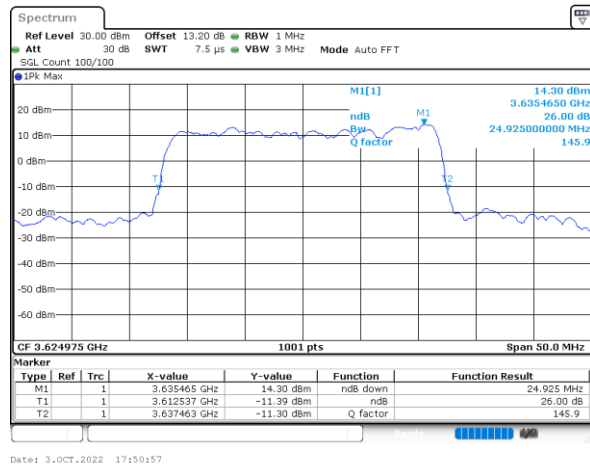
Middle Channel / 10MHz+20MHz



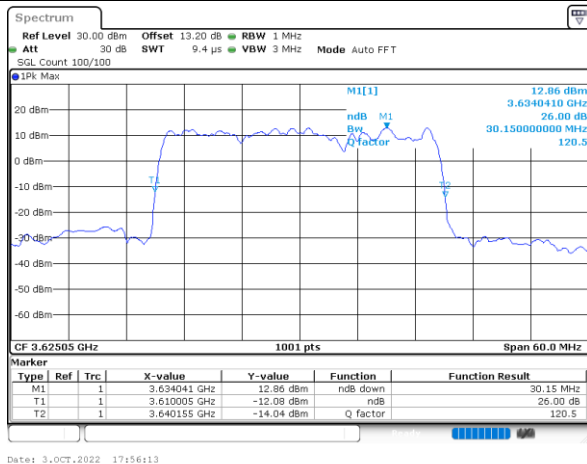
Middle Channel / 15MHz+20MHz



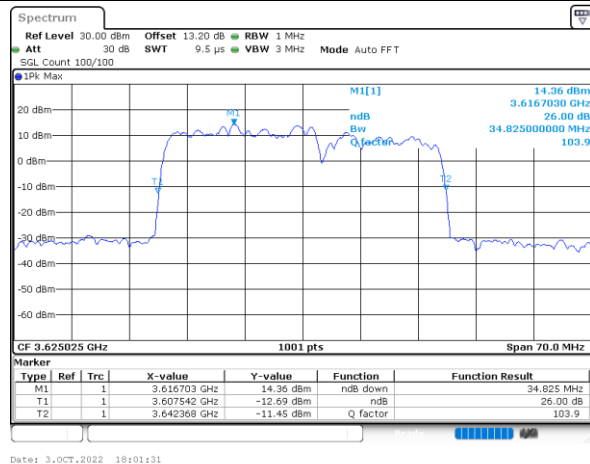
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



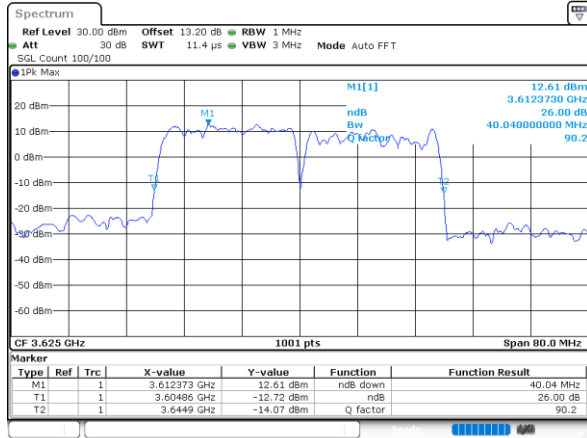


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A

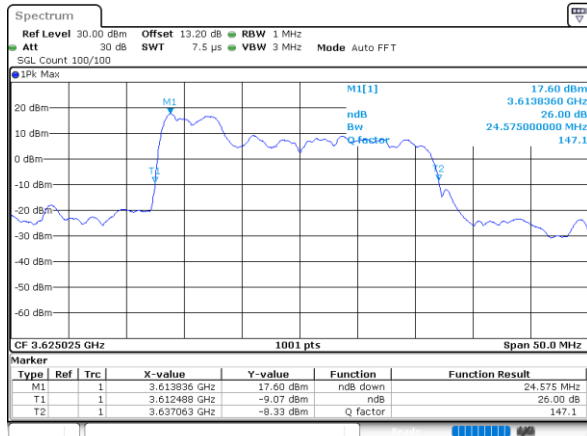




LTE Band 48C

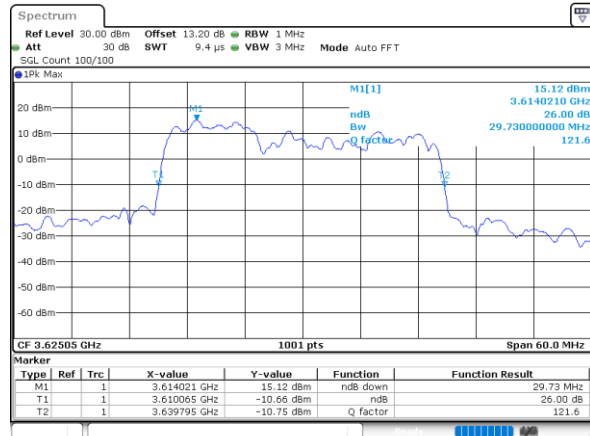
256QAM

Middle Channel / 5MHz+20MHz



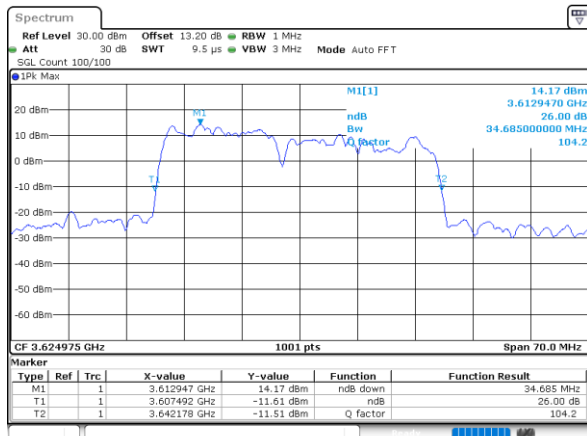
Date: 3.OCT.2022 17:35:50

Middle Channel / 10MHz+20MHz



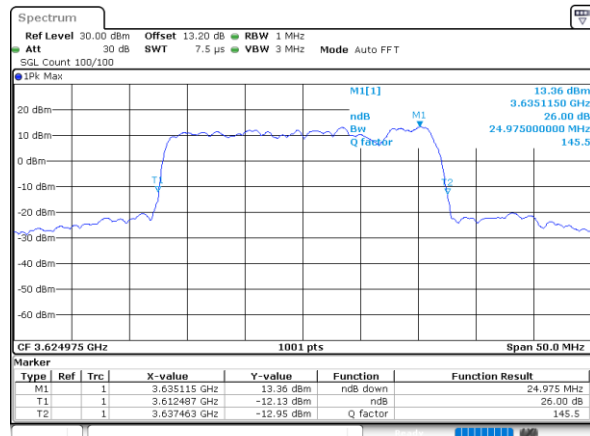
Date: 3.OCT.2022 17:41:05

Middle Channel / 15MHz+20MHz



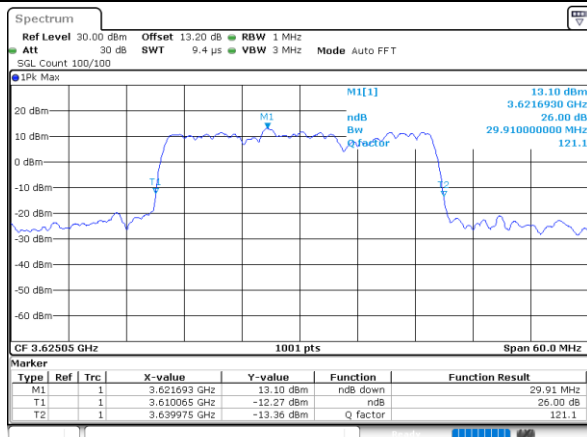
Date: 3.OCT.2022 17:46:20

Middle Channel / 20MHz+5MHz



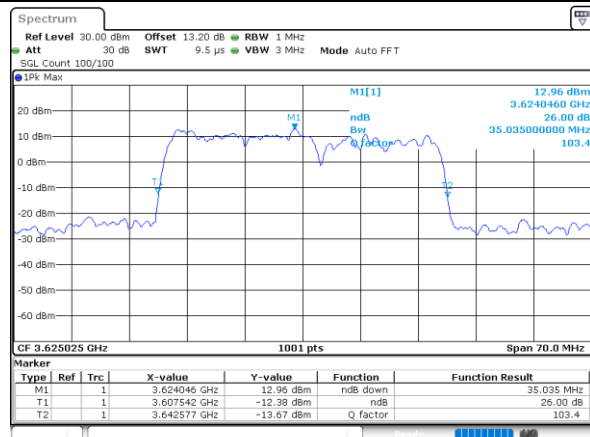
Date: 3.OCT.2022 17:51:35

Middle Channel / 20MHz+10MHz



Date: 3.OCT.2022 17:56:52

Middle Channel / 20MHz+15MHz



Date: 3.OCT.2022 18:02:09

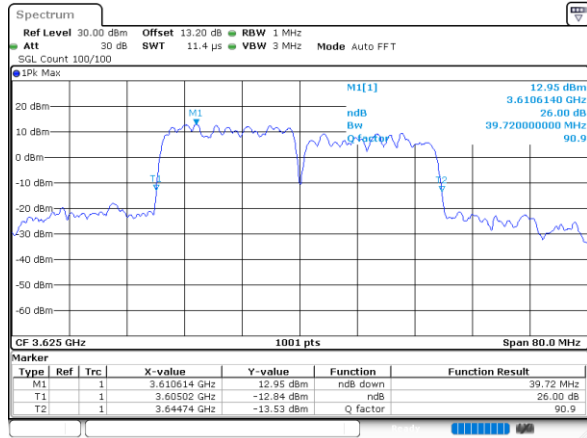


LTE Band 48C

256QAM

Middle Channel / 20MHz+20MHz

N/A



Occupied Bandwidth

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.13	27.69	32.73	23.18
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.75	32.87	37.56	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.18	27.87	32.73	23.18
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.93	32.66	37.16	-

Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.33	27.63	32.52	23.13
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.99	32.73	37.96	-

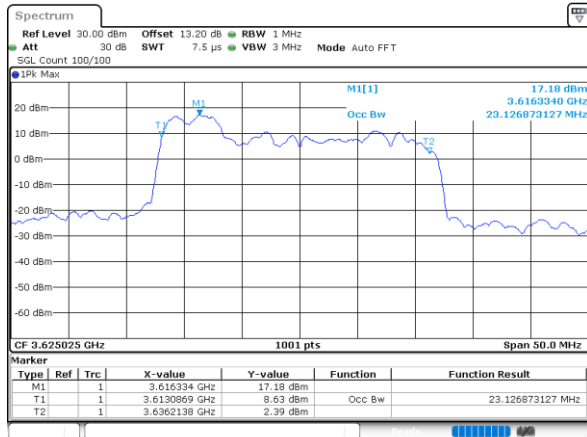
Mode	LTE Band 48C : 99%OBW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.28	27.75	32.80	23.28
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.81	32.87	37.72	-



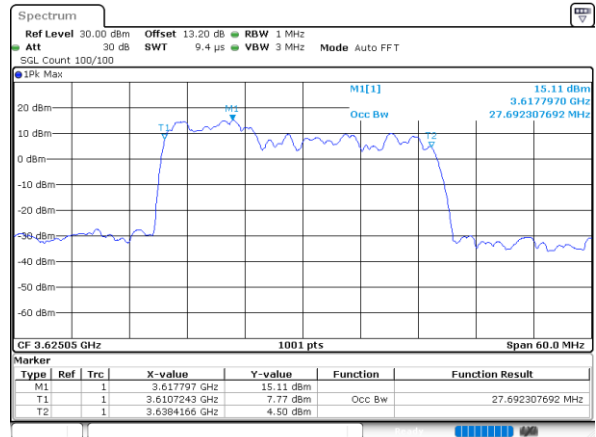
LTE Band 48C

QPSK

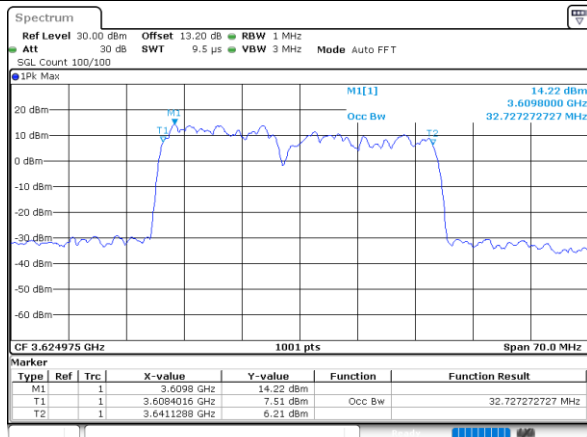
Middle Channel / 5MHz+20MHz



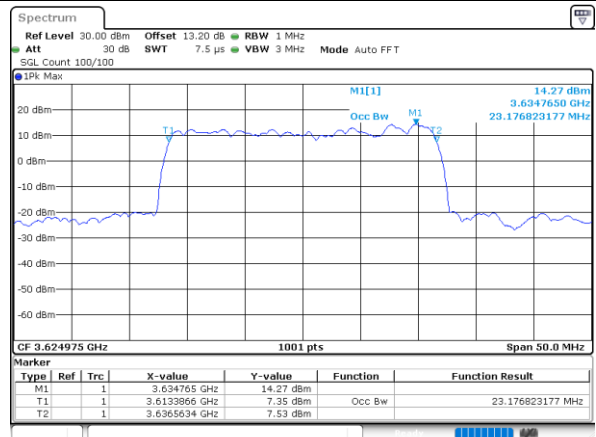
Middle Channel / 10MHz+20MHz



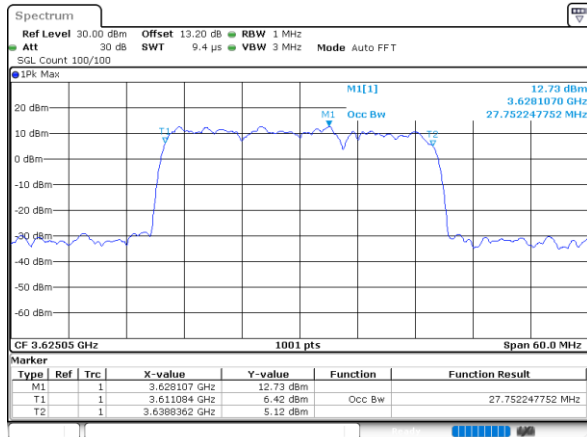
Middle Channel / 15MHz+20MHz



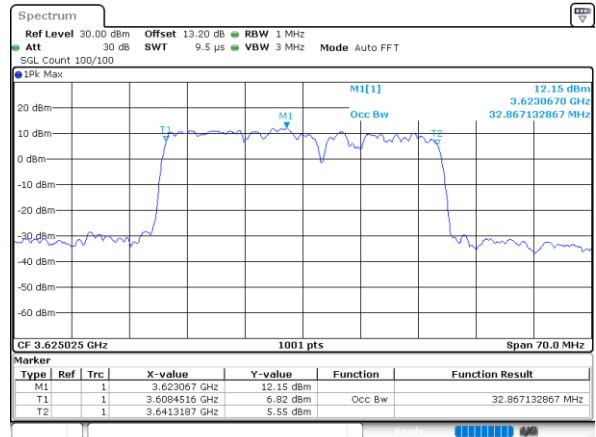
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



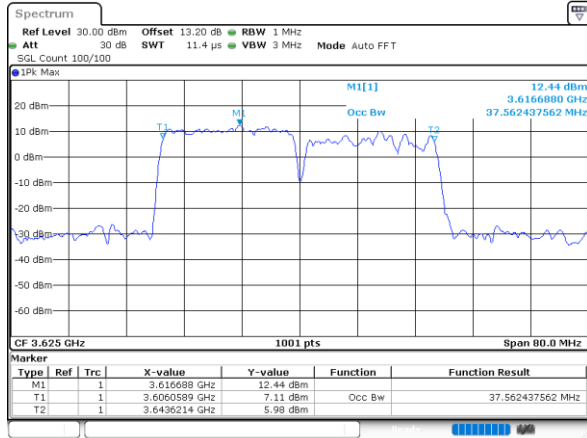


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A

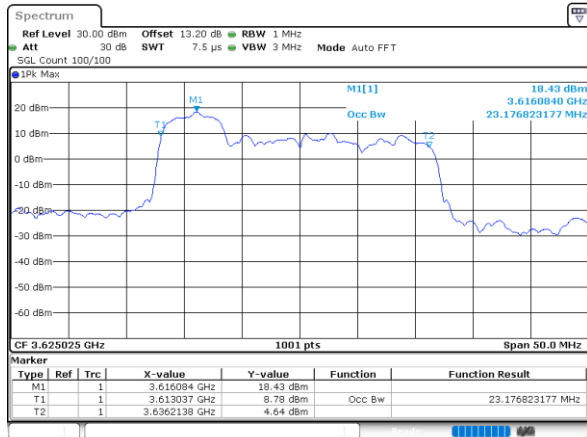




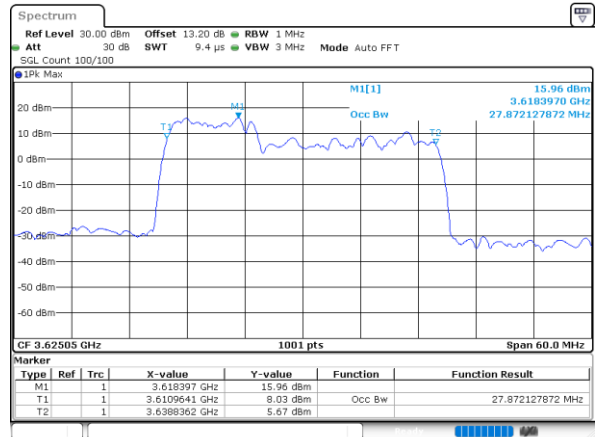
LTE Band 48C

16QAM

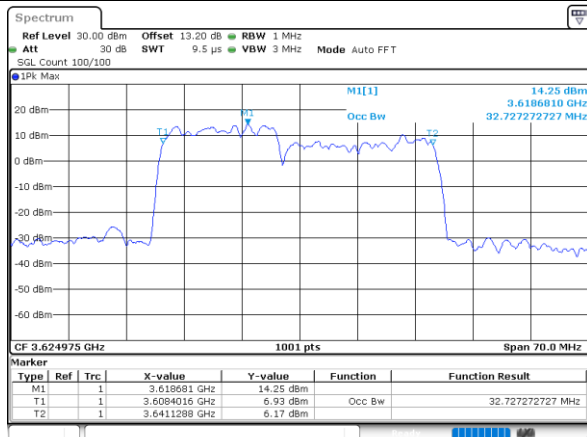
Middle Channel / 5MHz+20MHz



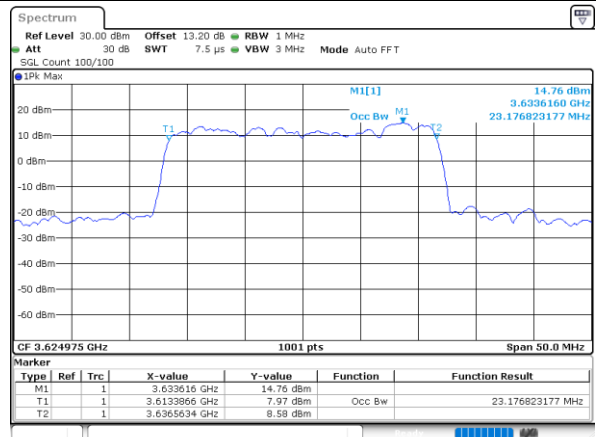
Middle Channel / 10MHz+20MHz



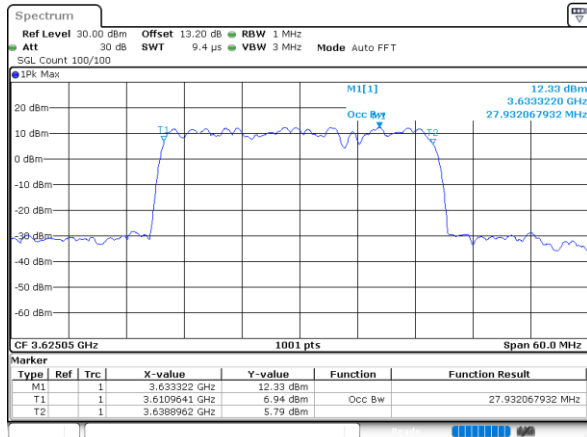
Middle Channel / 15MHz+20MHz



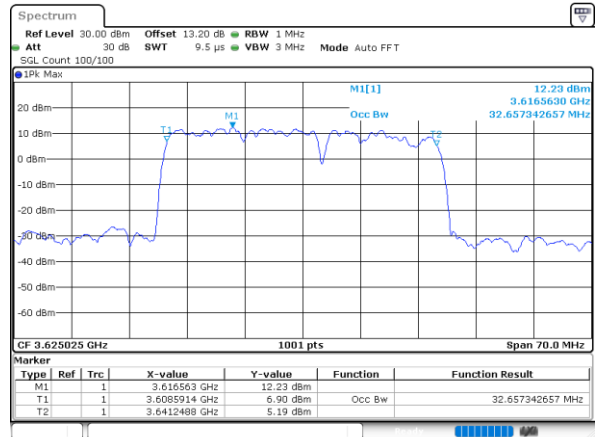
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



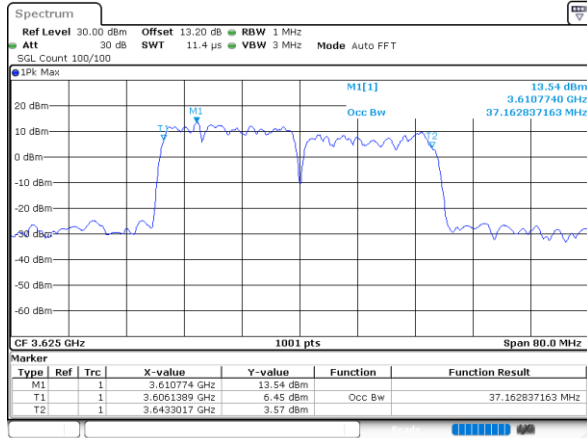


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A

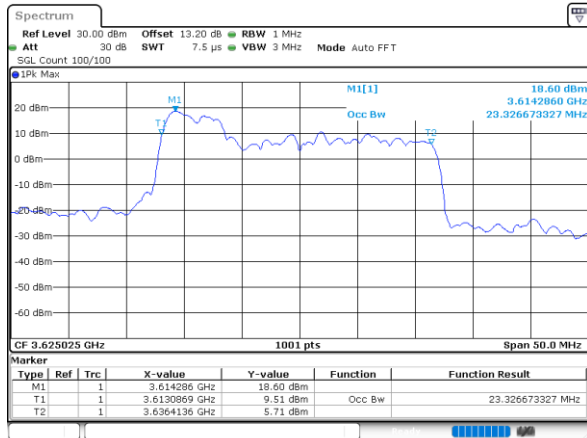




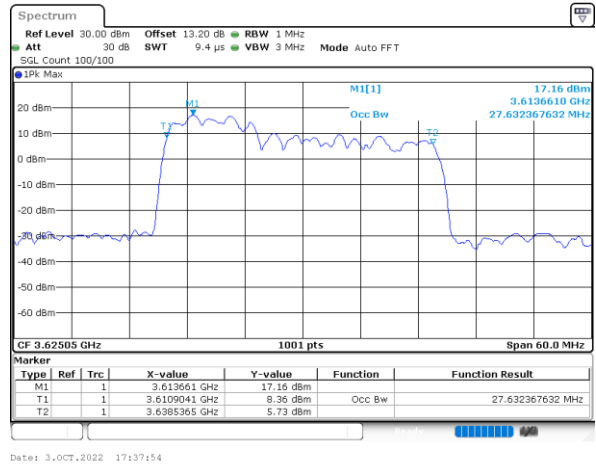
LTE Band 48C

64QAM

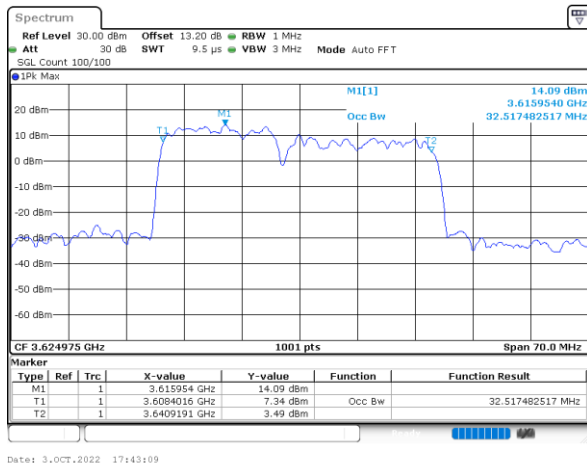
Middle Channel / 5MHz+20MHz



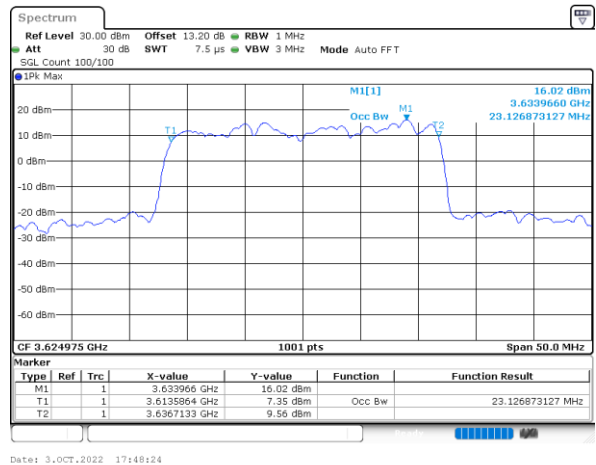
Middle Channel / 10MHz+20MHz



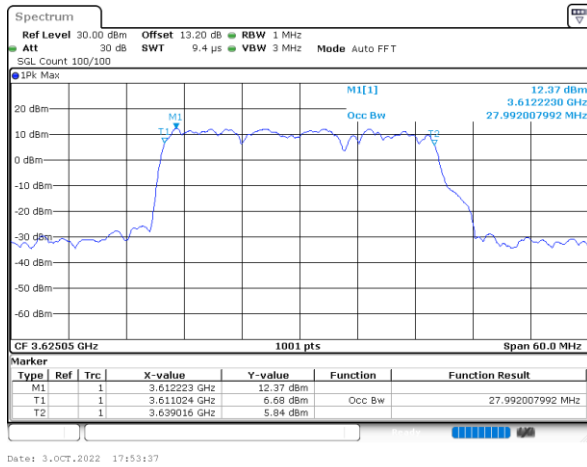
Middle Channel / 15MHz+20MHz



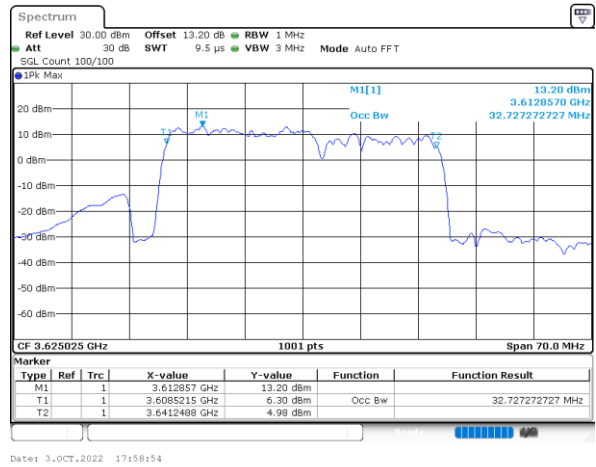
Middle Channel / 20MHz+5MHz

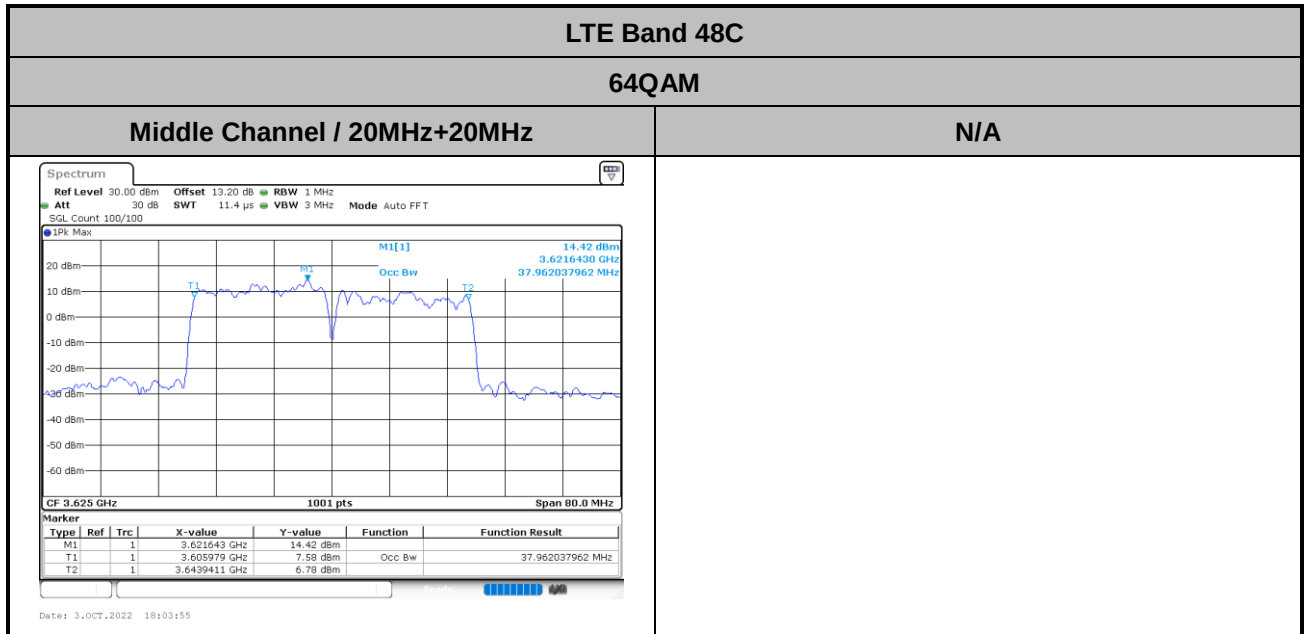


Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



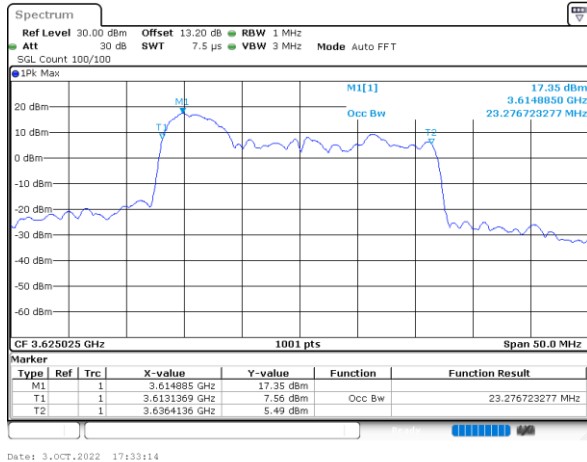




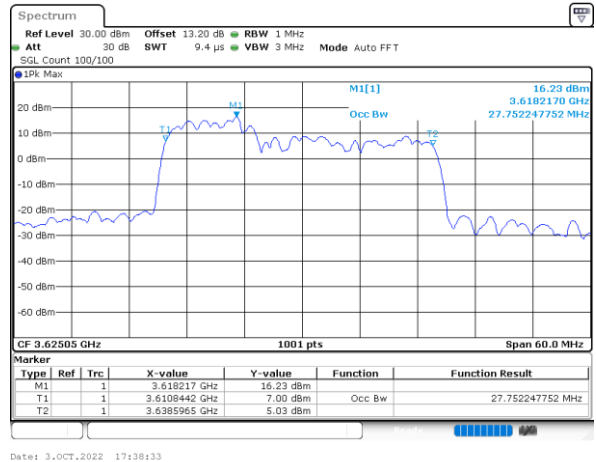
LTE Band 48C

256QAM

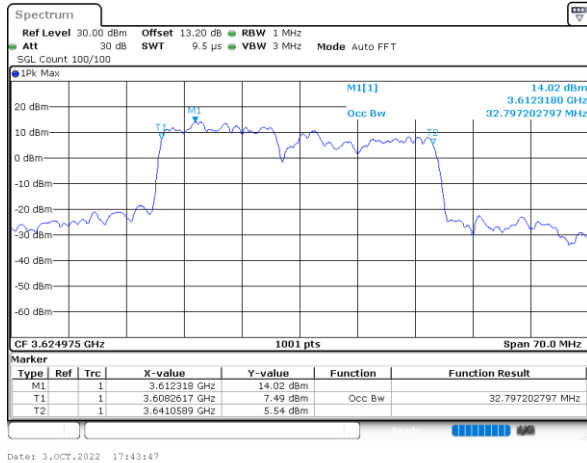
Middle Channel / 5MHz+20MHz



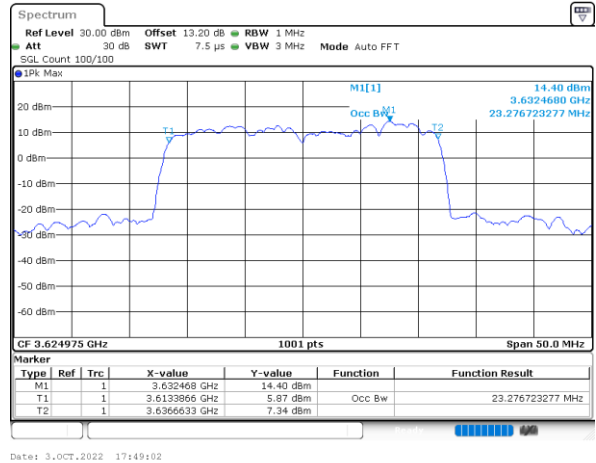
Middle Channel / 10MHz+20MHz



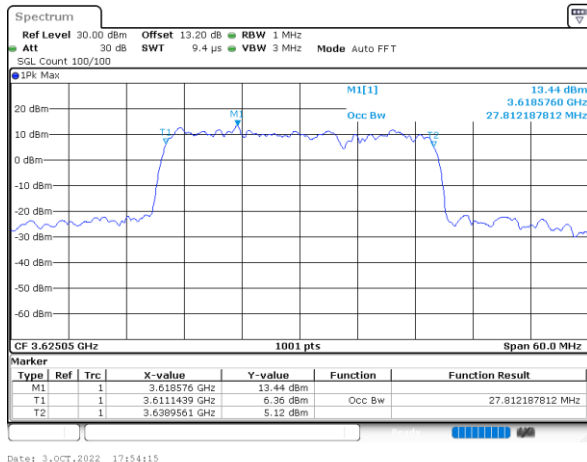
Middle Channel / 15MHz+20MHz



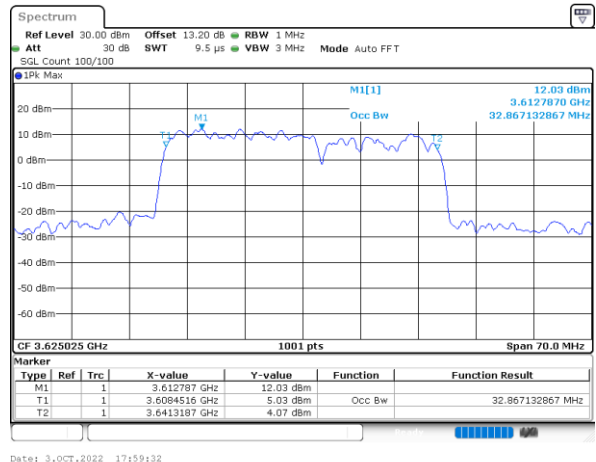
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



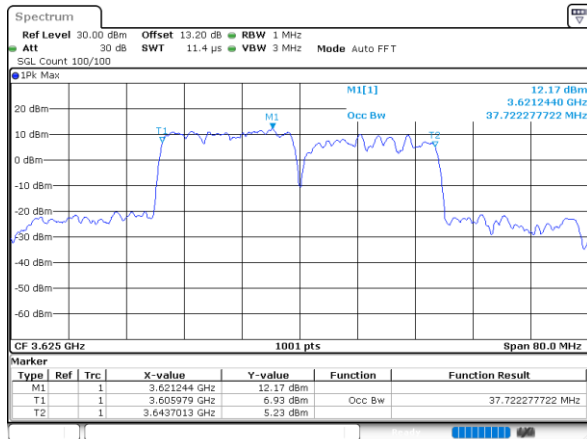


LTE Band 48C

256QAM

Middle Channel / 20MHz+20MHz

N/A





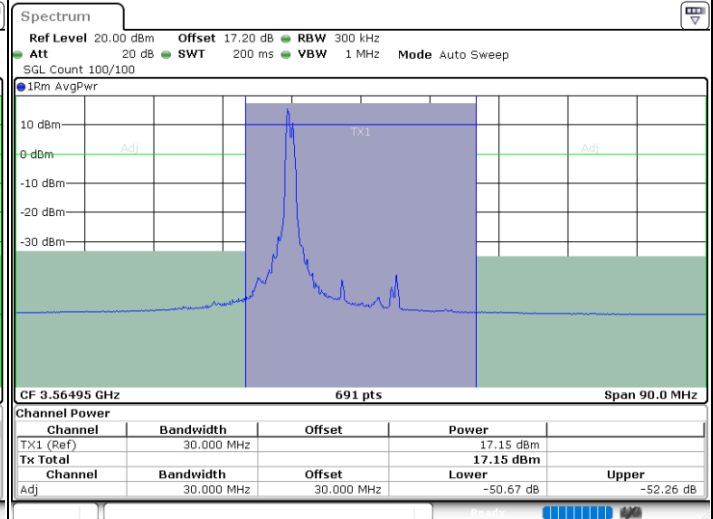
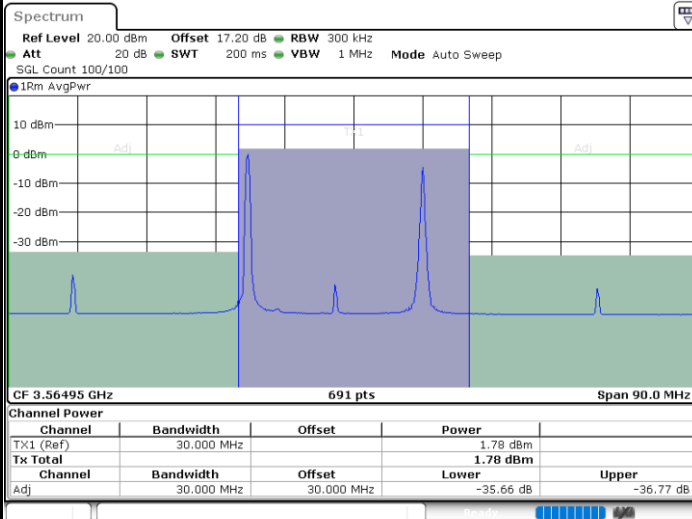
ACLR

LTE Band 48C / 5MHz+20MHz

QPSK

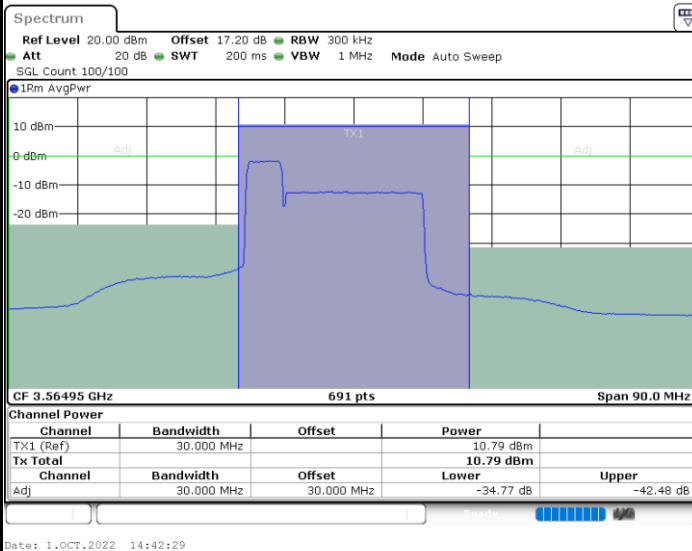
Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB24 and 1RB0



Lowest Channel / FullRB

N/A





LTE Band 48C / 5MHz+20MHz

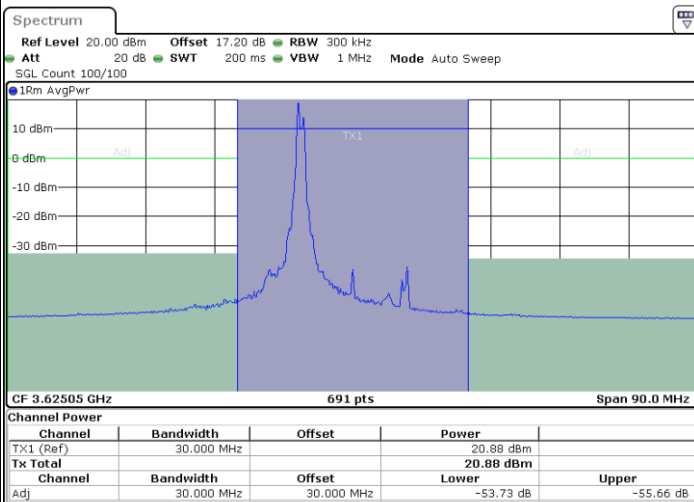
QPSK

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB24 and 1RB0



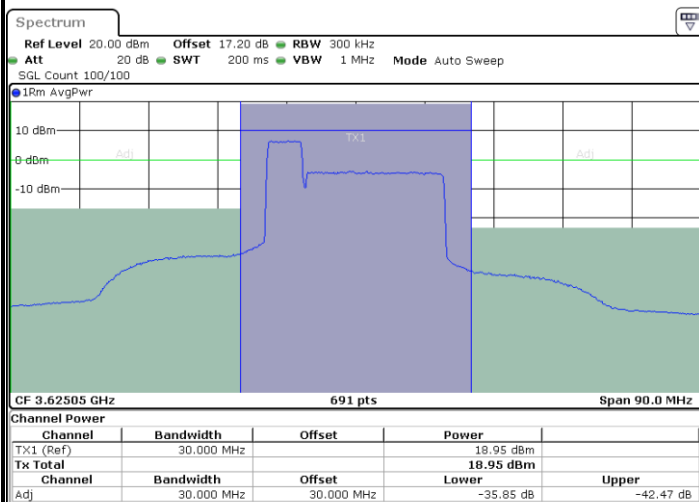
Date: 1.OCT.2022 15:29:36



Date: 1.OCT.2022 15:42:03

Middle Channel / FullRB

N/A



Date: 1.OCT.2022 15:21:02

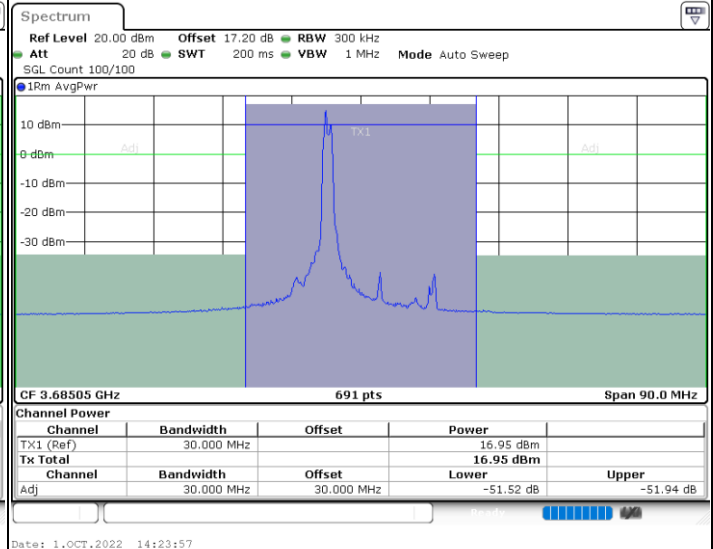
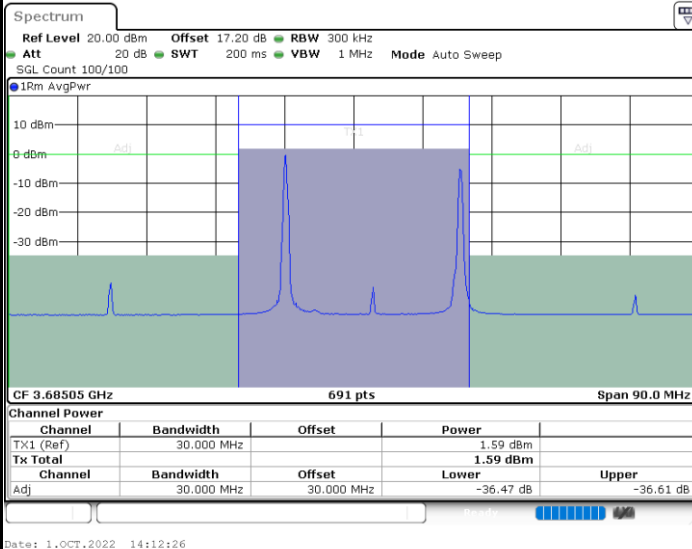


LTE Band 48C / 5MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB24 and 1RB0



Highest Channel / FullIRB

N/A

