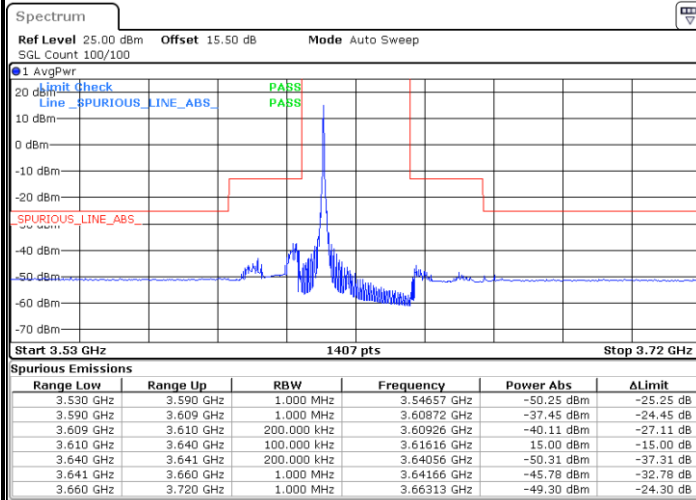




LTE Band 48 / 20MHz

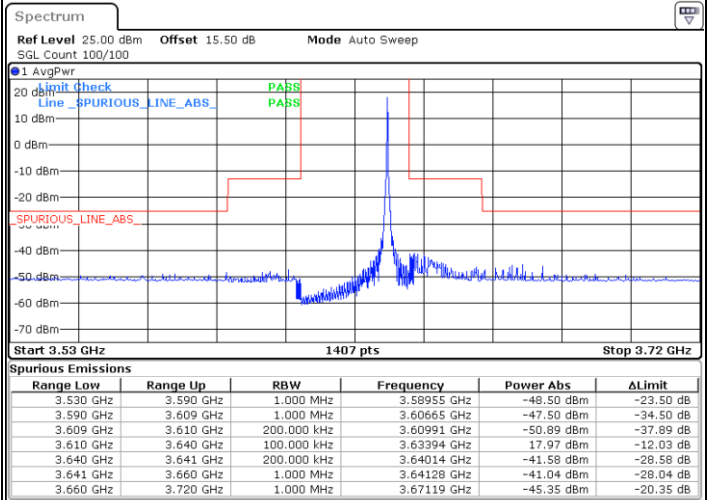
64QAM

Middle Channel / 1RB0



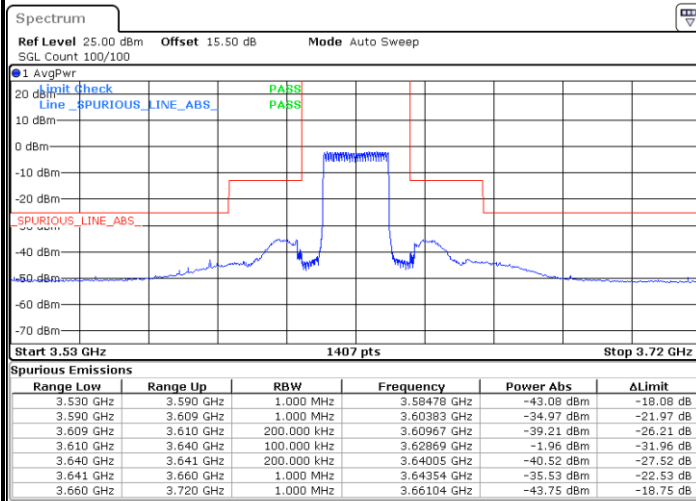
Date: 5.AUG.2022 21:06:27

Middle Channel / 1RBmax



Date: 5.AUG.2022 21:15:54

Middle Channel / FullRB



Date: 5.AUG.2022 20:57:01

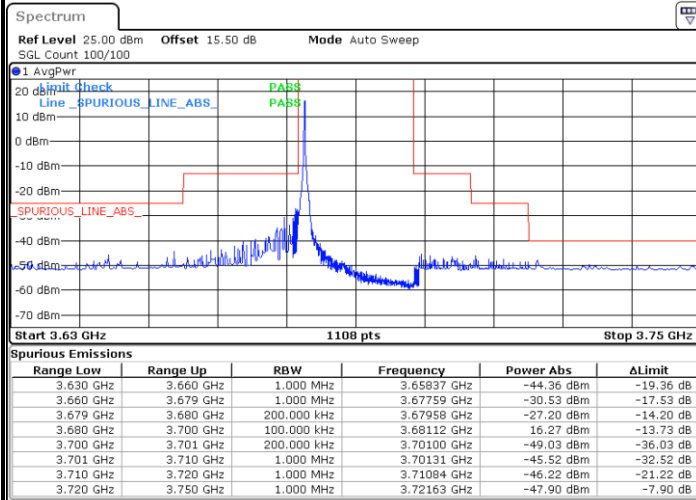
N/A



LTE Band 48 / 20MHz

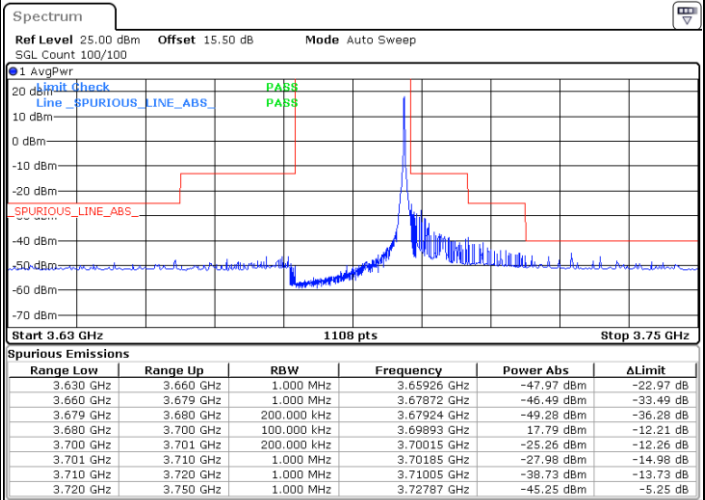
64QAM

Highest Channel / 1RB0



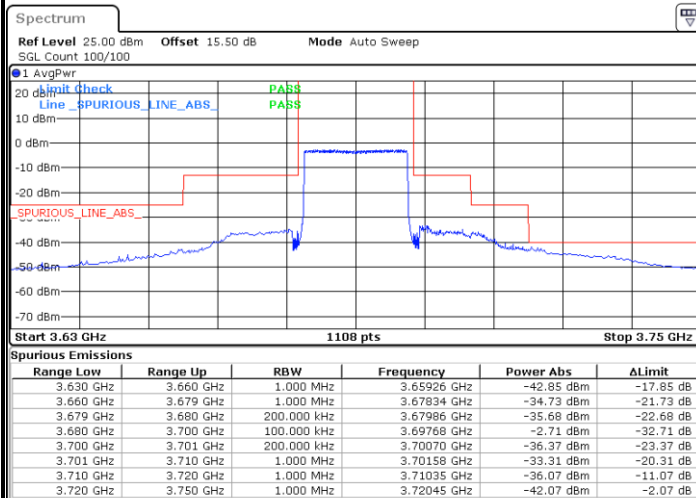
Date: 5.AUG.2022 21:07:30

Highest Channel / 1RBmax



Date: 5.AUG.2022 21:16:56

Highest Channel / FullIRB



Date: 5.AUG.2022 20:58:04

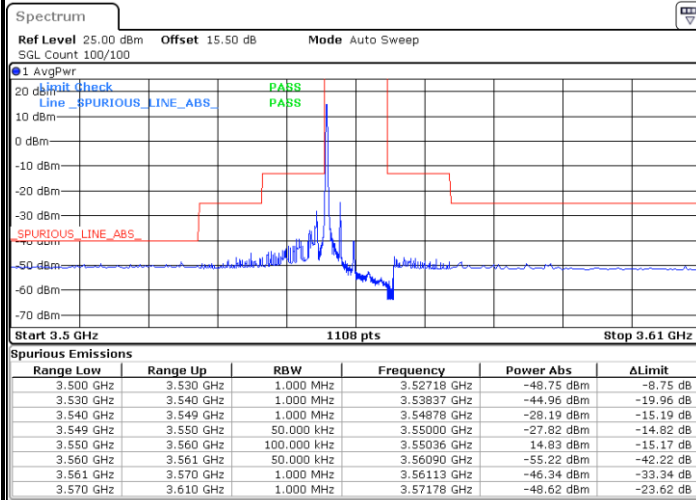
N/A



LTE Band 48 / 5MHz

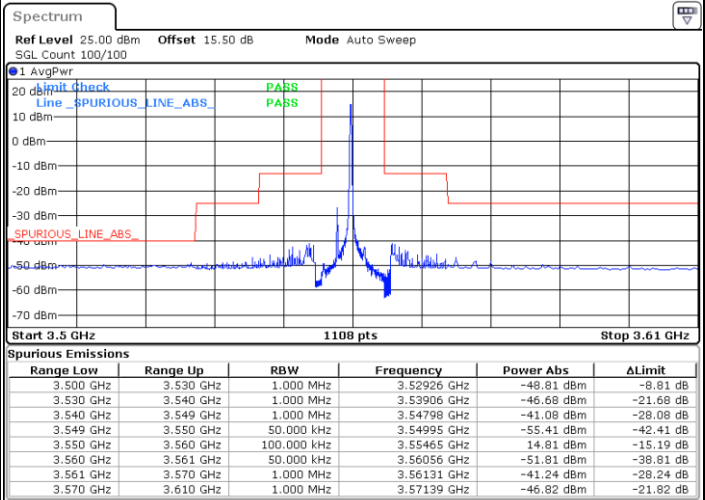
256QAM

Lowest Channel / 1RB0



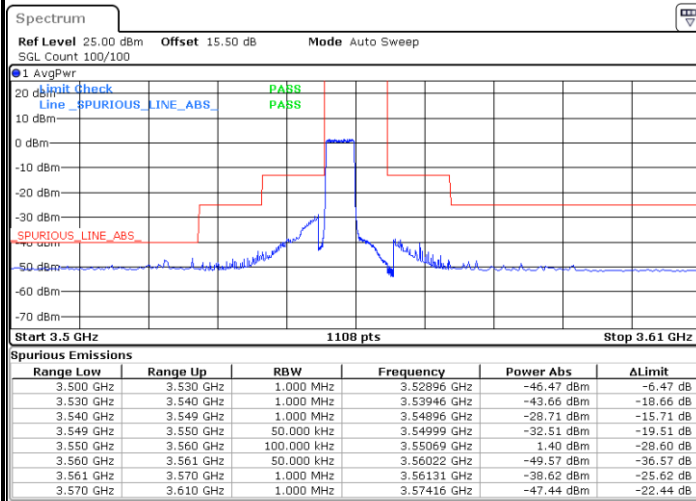
Date: 5.AUG.2022 21:52:09

Lowest Channel / 1RBmax



Date: 5.AUG.2022 21:58:31

Lowest Channel / FullIRB



Date: 5.AUG.2022 21:55:20

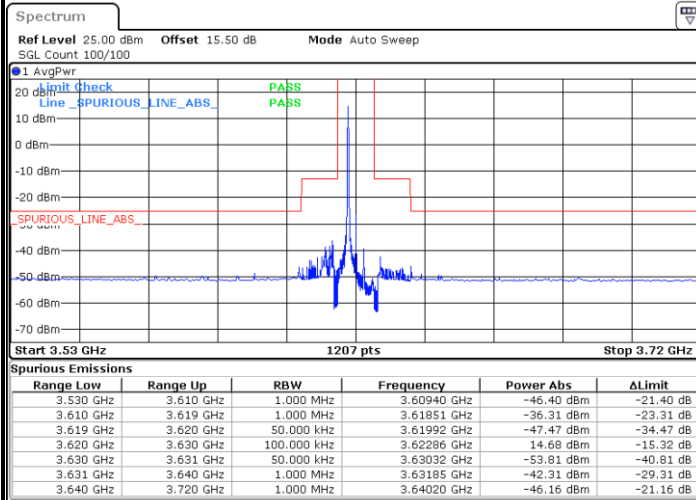
N/A



LTE Band 48 / 5MHz

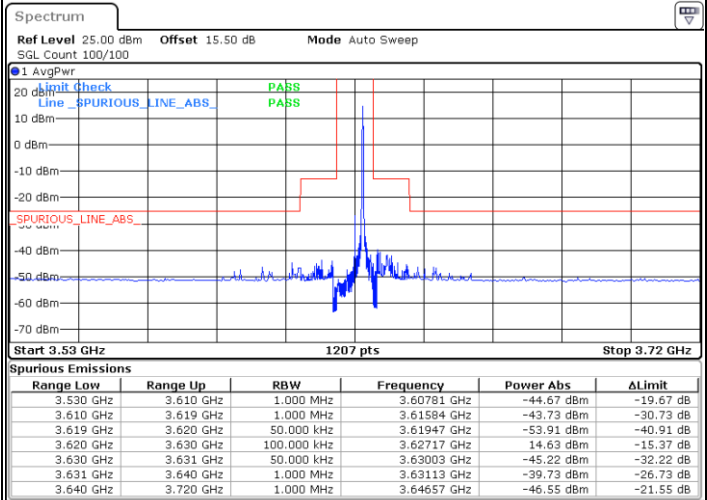
256QAM

Middle Channel / 1RB0



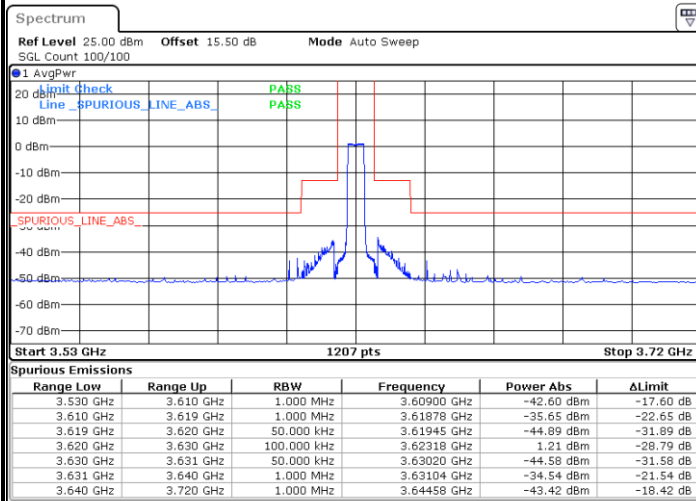
Date: 5.AUG.2022 21:53:12

Middle Channel / 1RBmax



Date: 5.AUG.2022 21:59:34

Middle Channel / FullRB



Date: 5.AUG.2022 21:56:23

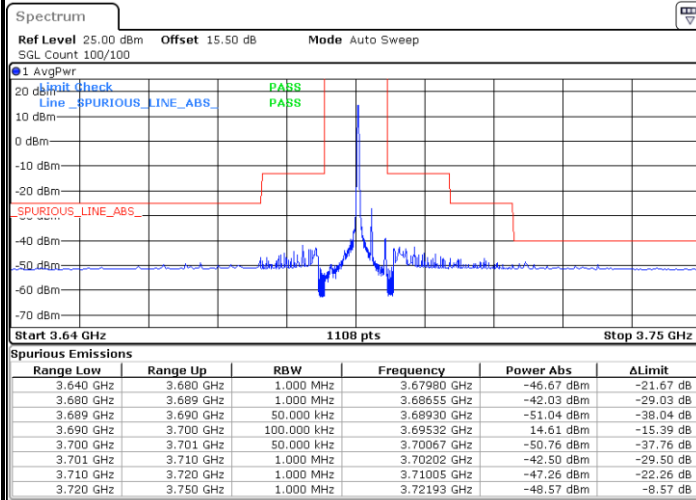
N/A



LTE Band 48 / 5MHz

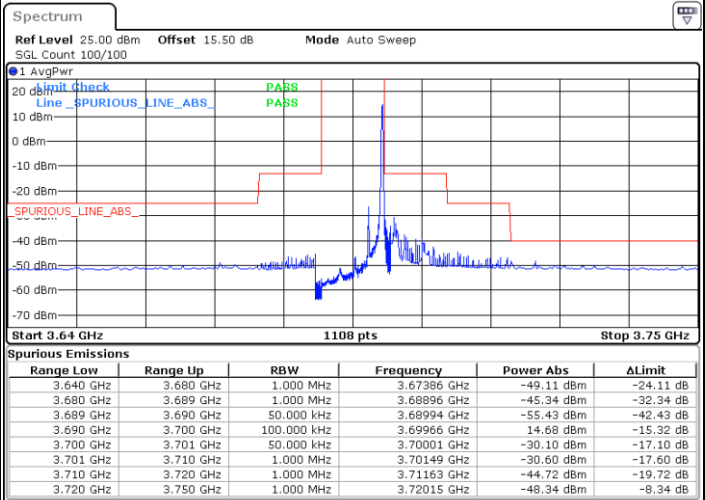
256QAM

Highest Channel / 1RB0



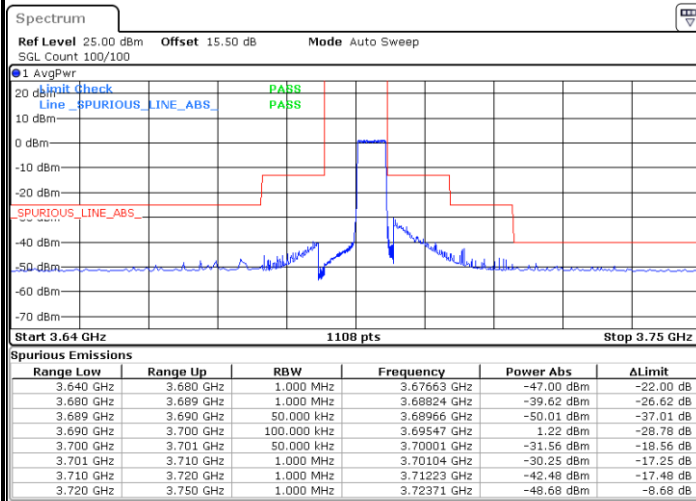
Date: 5.AUG.2022 21:54:15

Highest Channel / 1RBmax



Date: 5.AUG.2022 22:00:37

Highest Channel / FullIRB



Date: 5.AUG.2022 21:57:26

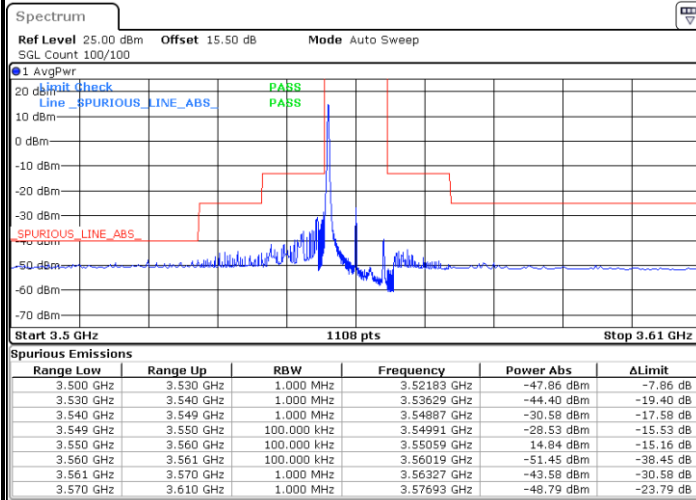
N/A



LTE Band 48 / 10MHz

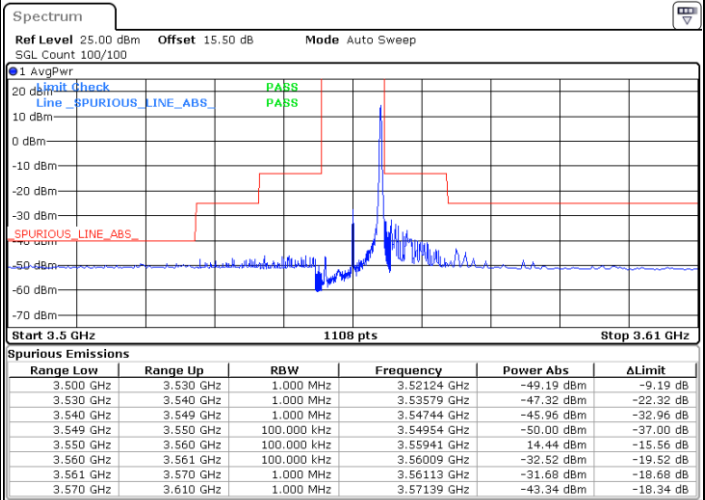
256QAM

Lowest Channel / 1RB0



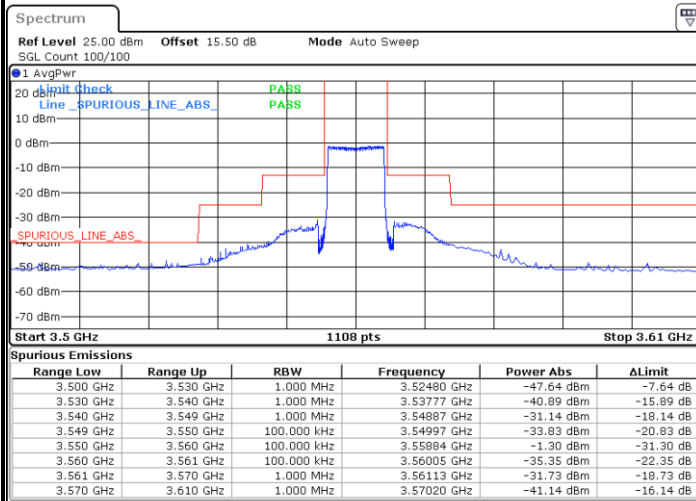
Date: 5.AUG.2022 22:01:45

Lowest Channel / 1RBmax



Date: 5.AUG.2022 22:08:08

Lowest Channel / FullIRB



Date: 5.AUG.2022 22:04:56

N/A

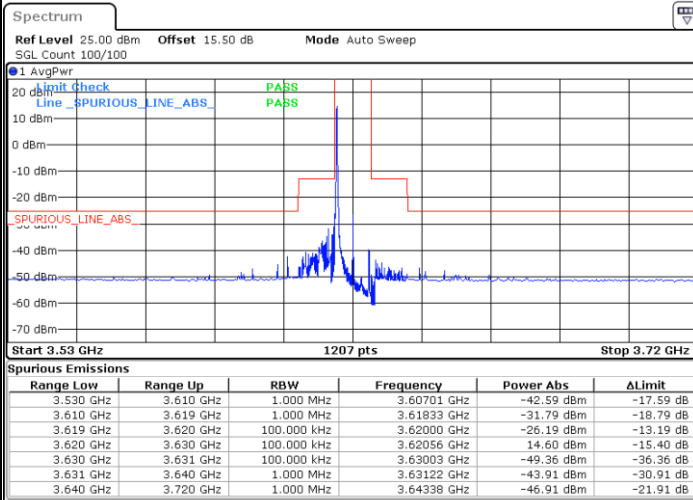


LTE Band 48 / 10MHz

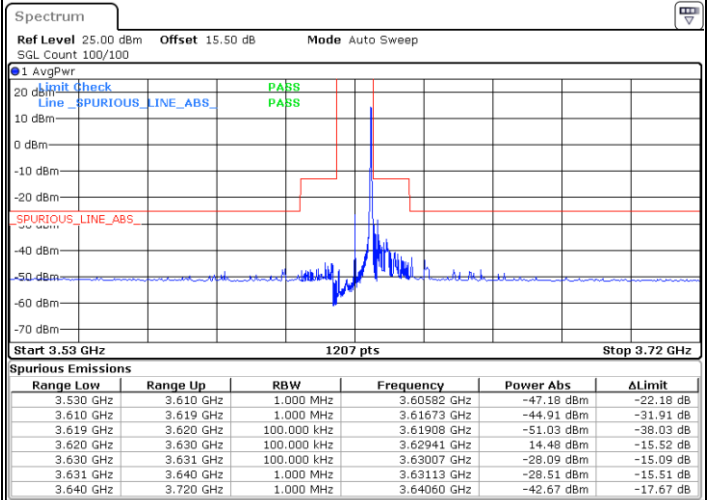
256QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



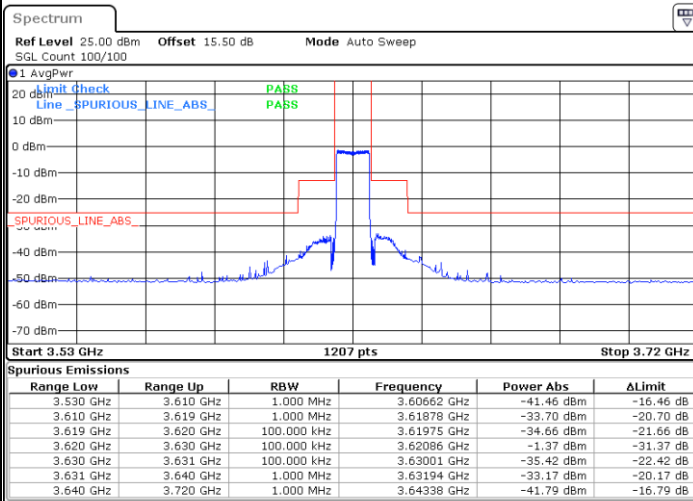
Date: 5.AUG.2022 22:02:48



Date: 5.AUG.2022 22:09:10

Middle Channel / FullRB

N/A



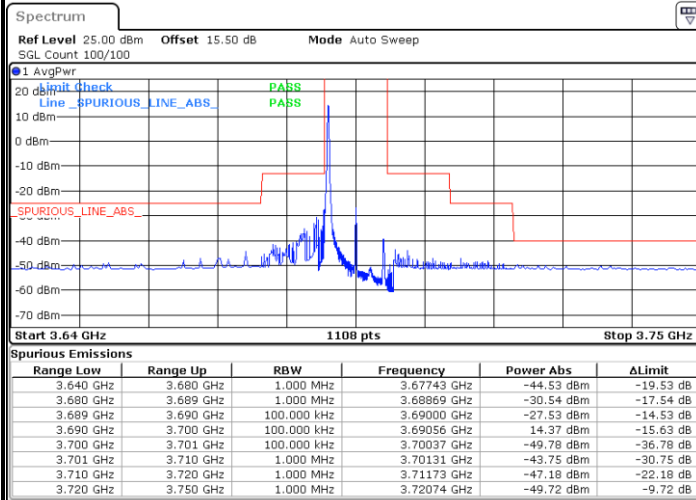
Date: 5.AUG.2022 22:05:59



LTE Band 48 / 10MHz

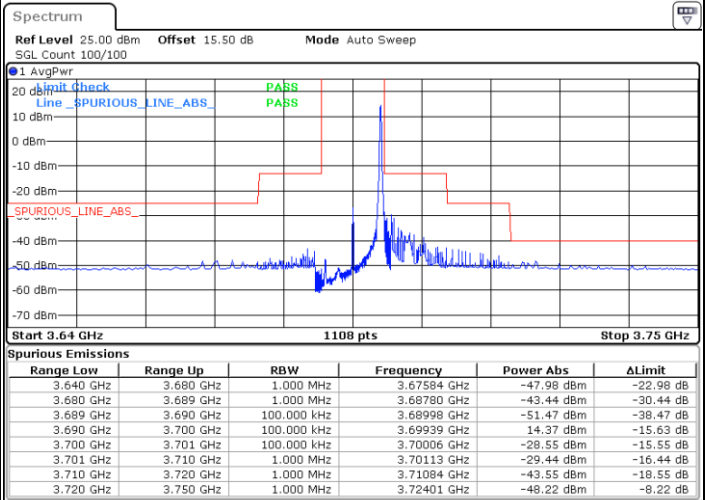
256QAM

Highest Channel / 1RB0



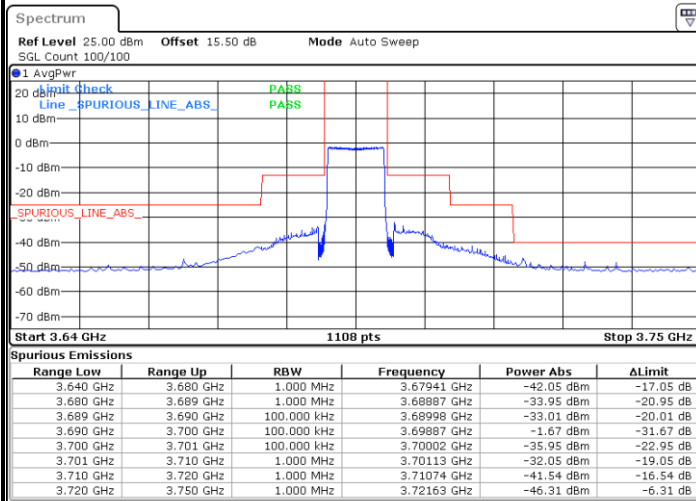
Date: 5.AUG.2022 22:03:50

Highest Channel / 1RBmax



Date: 5.AUG.2022 22:10:13

Highest Channel / FullIRB



Date: 5.AUG.2022 22:07:02

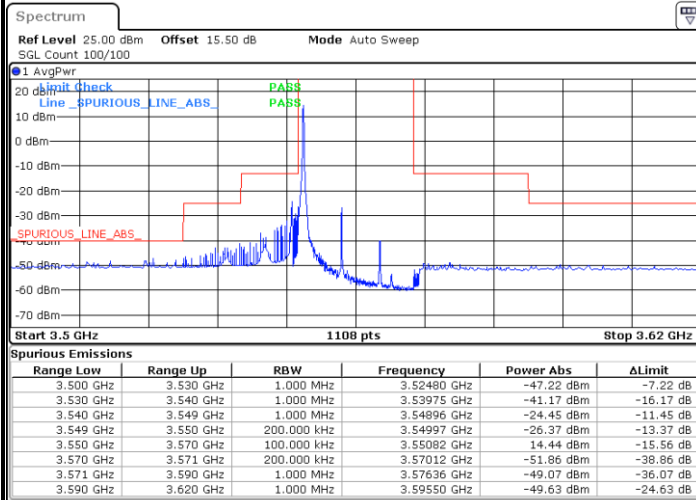
N/A



LTE Band 48 / 15MHz

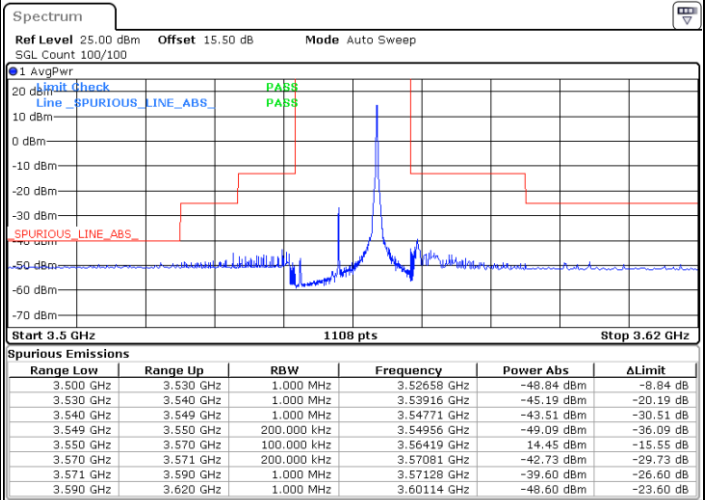
256QAM

Lowest Channel / 1RB0



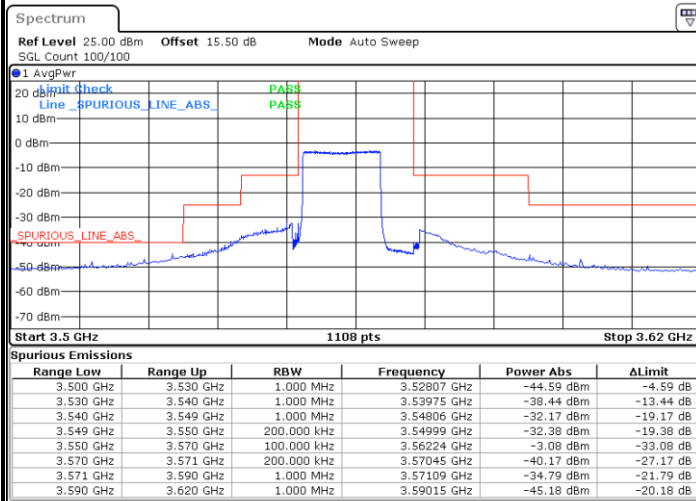
Date: 5.AUG.2022 22:11:21

Lowest Channel / 1RBmax



Date: 5.AUG.2022 22:17:43

Lowest Channel / FullRB



Date: 5.AUG.2022 22:14:32

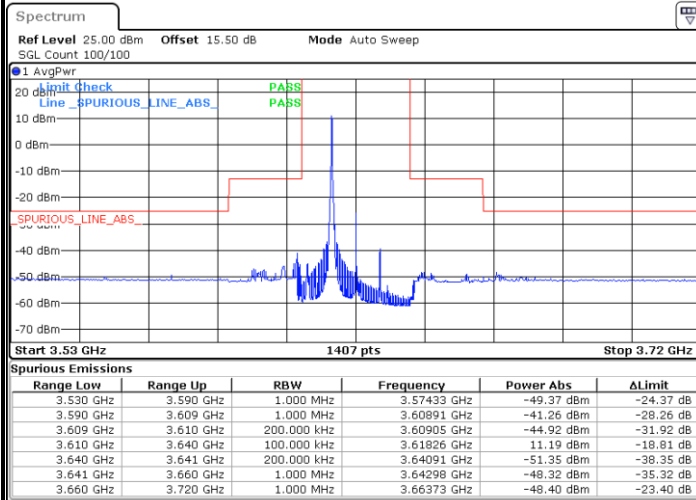
N/A



LTE Band 48 / 15MHz

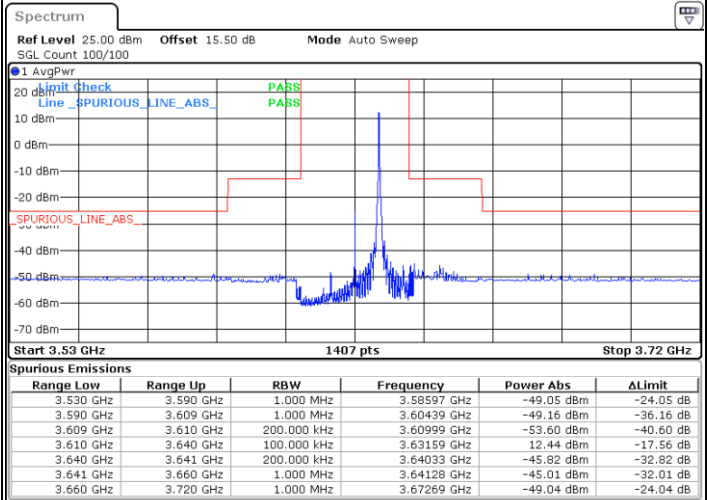
256QAM

Middle Channel / 1RB0



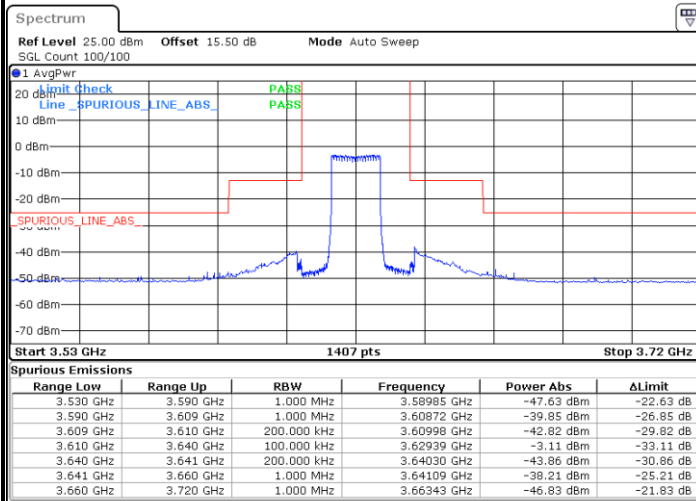
Date: 5.AUG.2022 22:12:23

Middle Channel / 1RBmax



Date: 5.AUG.2022 22:18:46

Middle Channel / FullRB



Date: 5.AUG.2022 22:15:35

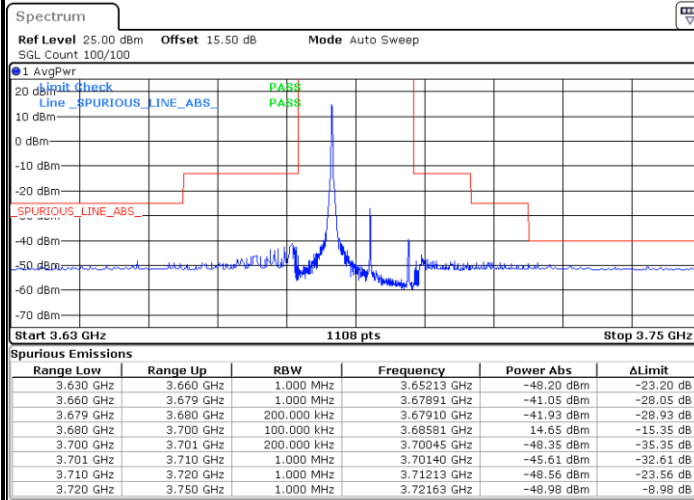
N/A



LTE Band 48 / 15MHz

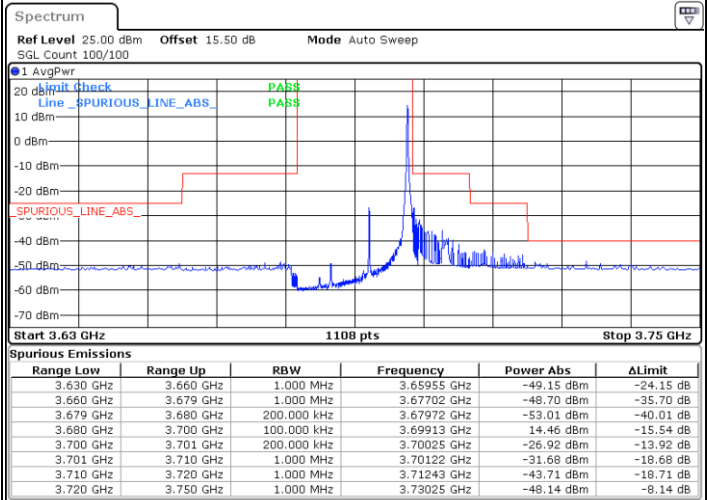
256QAM

Highest Channel / 1RB0



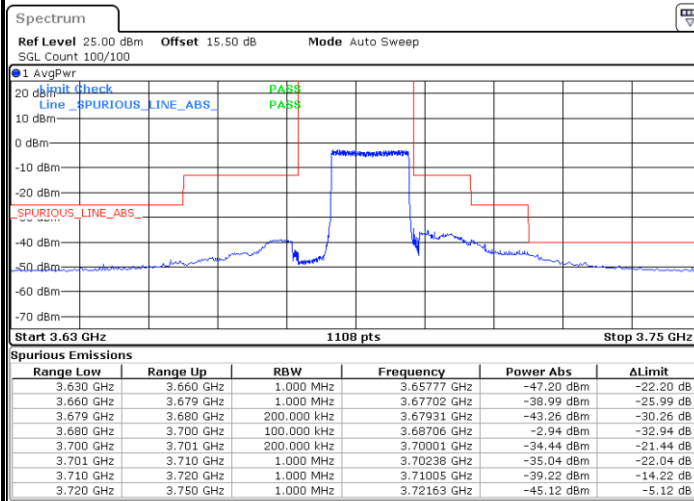
Date: 5.AUG.2022 22:13:26

Highest Channel / 1RBmax



Date: 5.AUG.2022 22:19:49

Highest Channel / FullIRB



Date: 5.AUG.2022 22:16:37

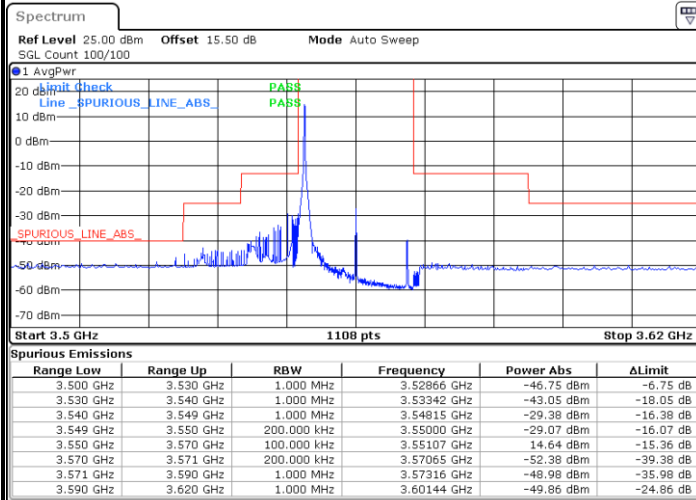
N/A



LTE Band 48 / 20MHz

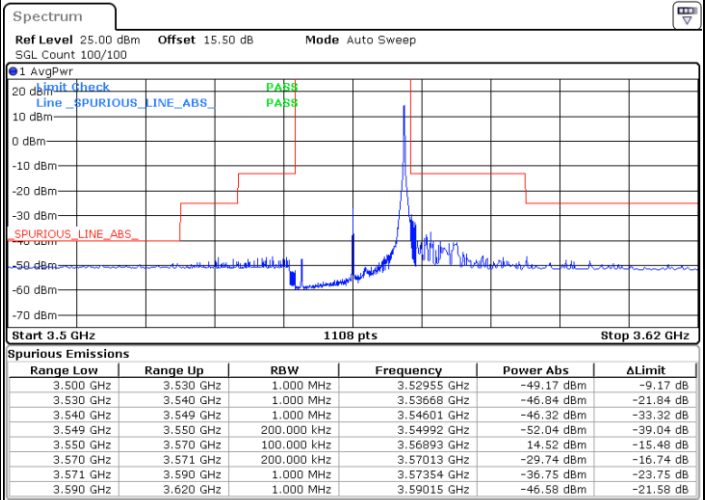
256QAM

Lowest Channel / 1RB0



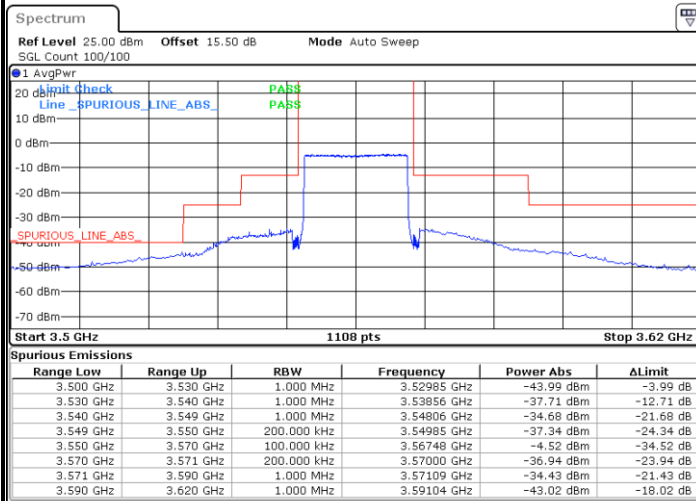
Date: 5.AUG.2022 22:24:09

Lowest Channel / 1RBmax



Date: 5.AUG.2022 22:27:20

Lowest Channel / FullRB



Date: 5.AUG.2022 22:20:57

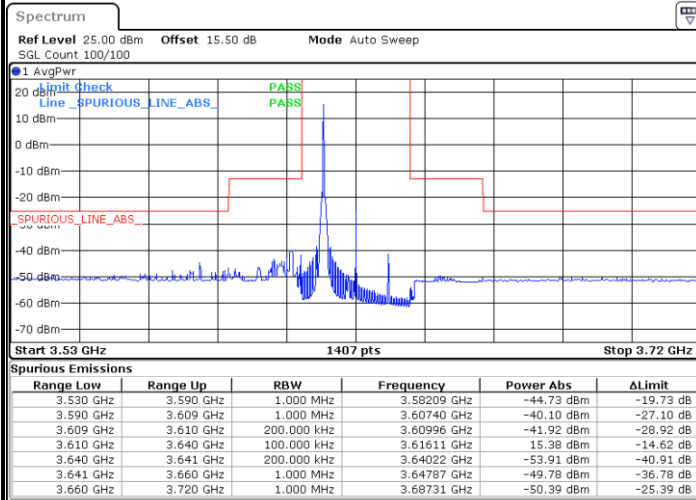
N/A



LTE Band 48 / 20MHz

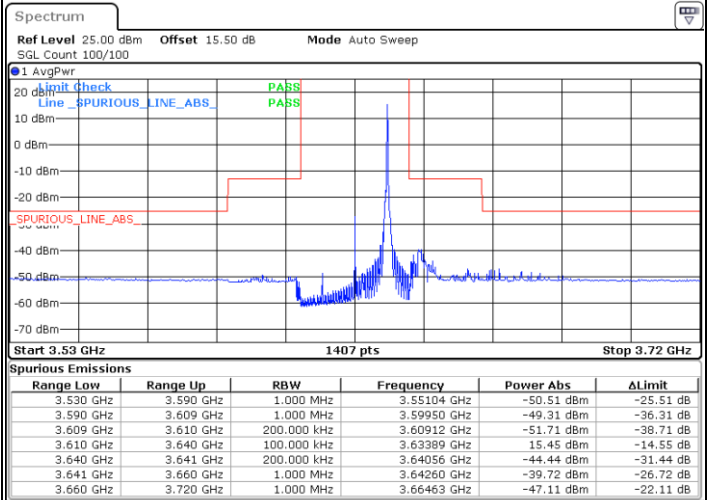
256QAM

Middle Channel / 1RB0



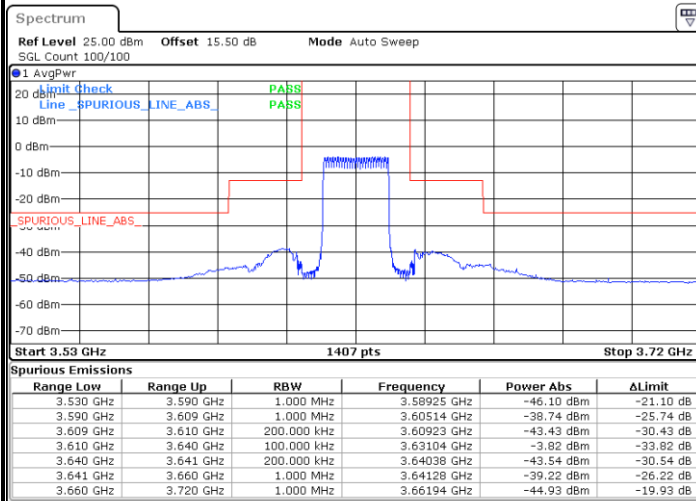
Date: 5.AUG.2022 22:25:11

Middle Channel / 1RBmax



Date: 5.AUG.2022 22:28:23

Middle Channel / FullRB



Date: 5.AUG.2022 22:22:00

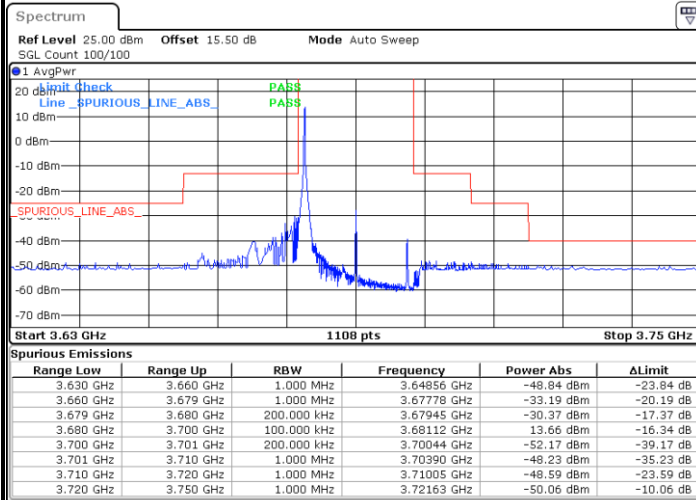
N/A



LTE Band 48 / 20MHz

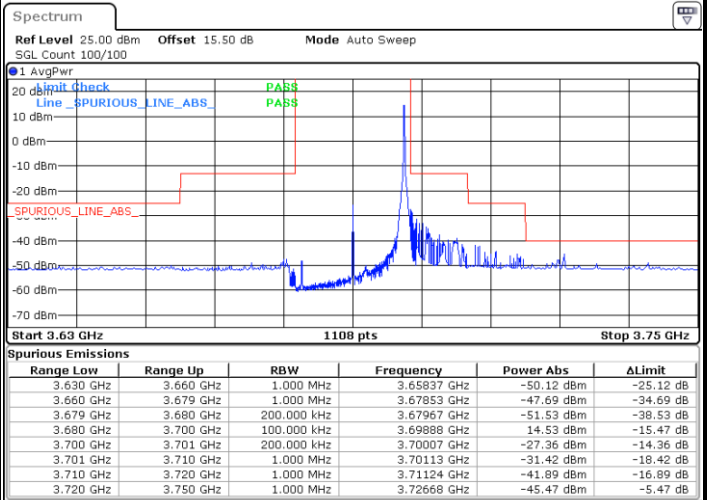
256QAM

Highest Channel / 1RB0



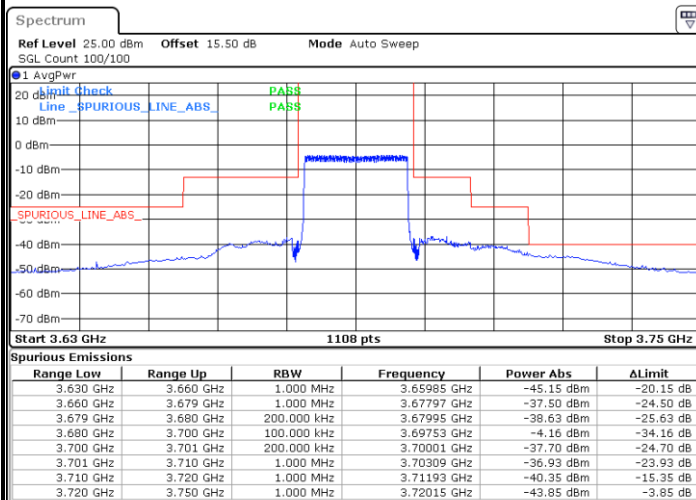
Date: 5.AUG.2022 22:26:14

Highest Channel / 1RBmax



Date: 5.AUG.2022 22:29:26

Highest Channel / FullIRB



Date: 5.AUG.2022 22:23:02

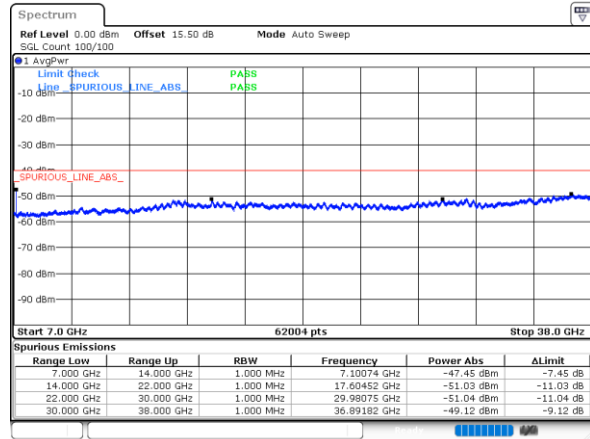
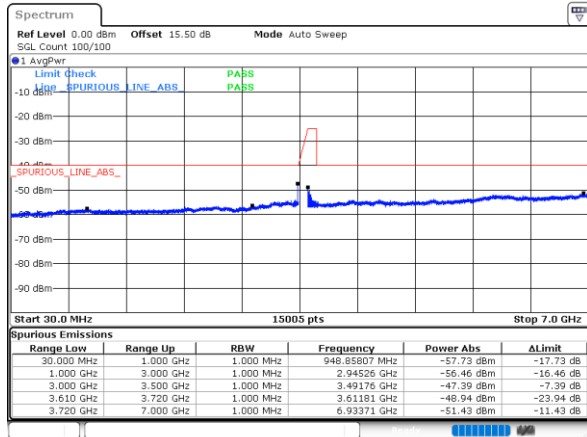
N/A



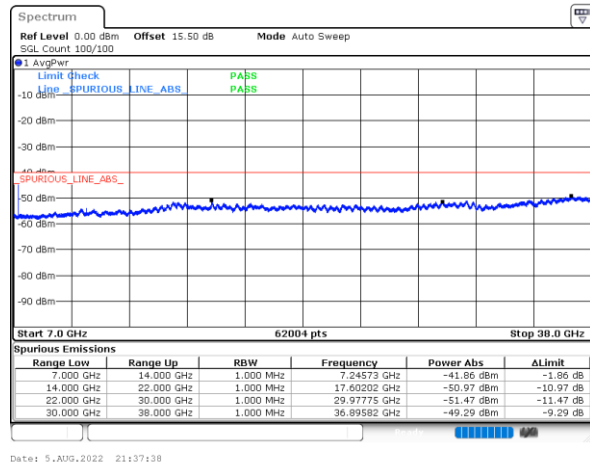
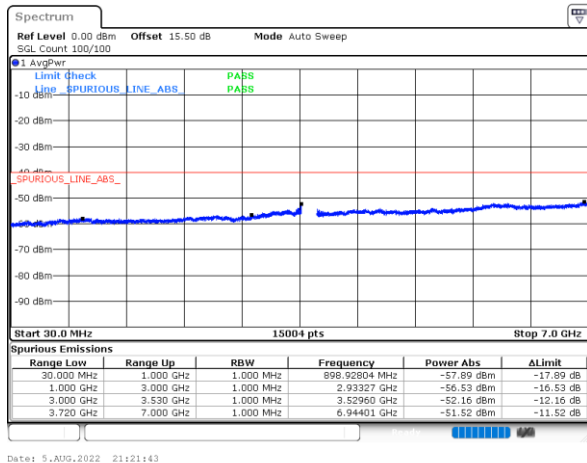
Conducted Spurious Emission

LTE Band 48 / 5MHz

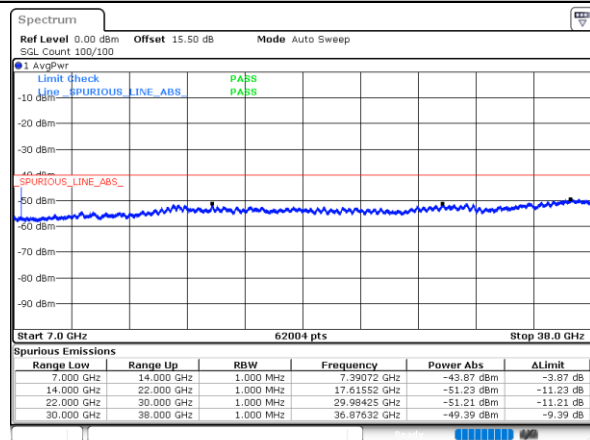
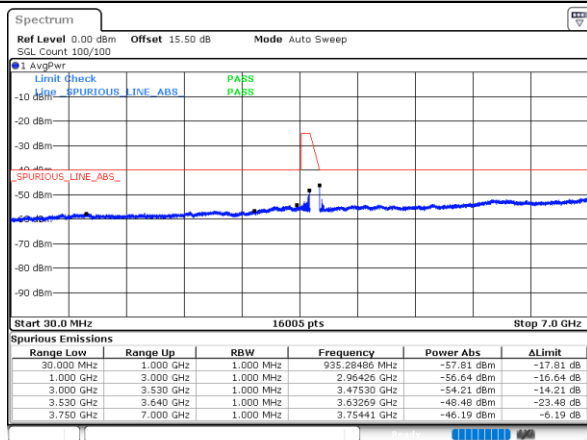
Lowest Channel / QPSK



Middle Channel / QPSK



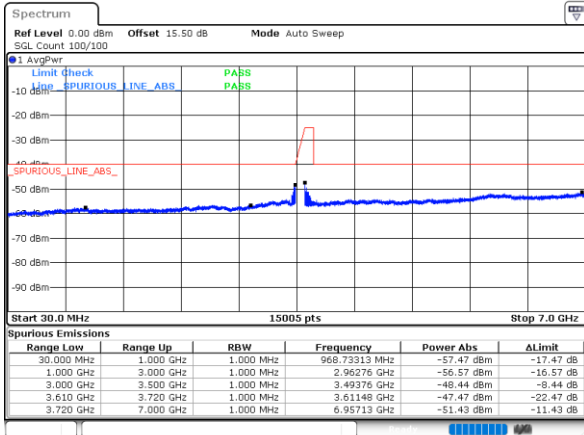
Highest Channel / QPSK



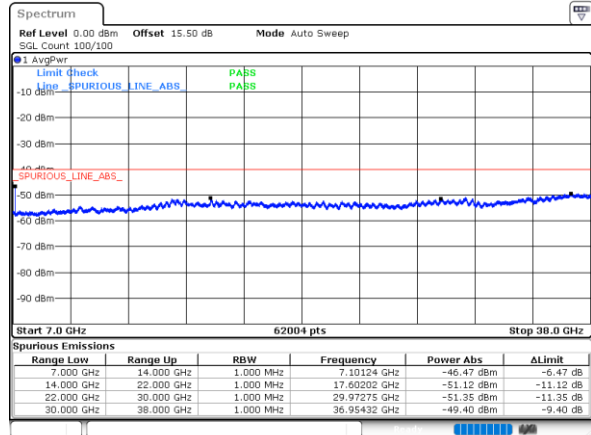


LTE Band 48 / 10MHz

Lowest Channel / QPSK

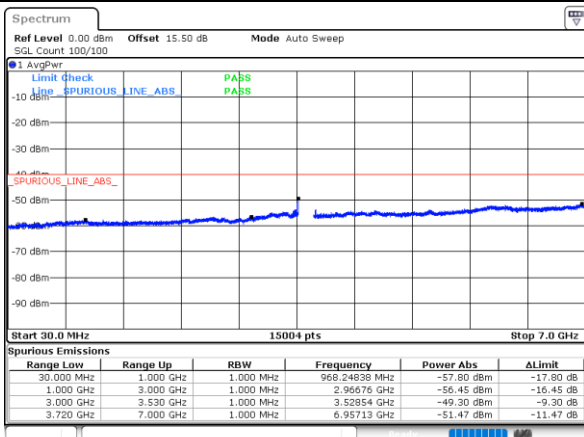


Date: 5.AUG.2022 21:24:24

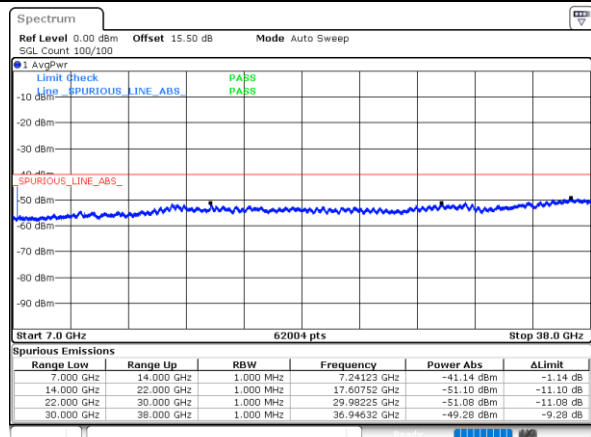


Date: 5.AUG.2022 21:40:21

Middle Channel / QPSK

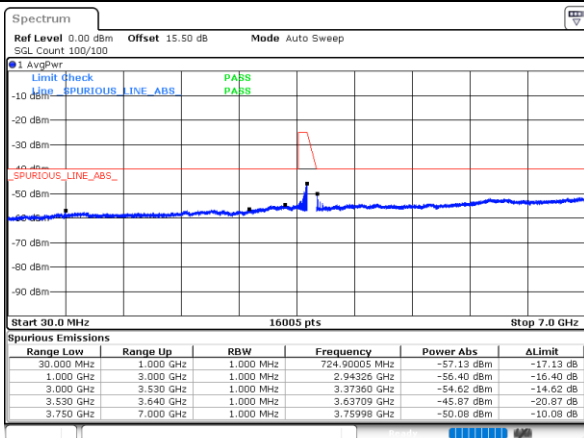


Date: 5.AUG.2022 21:25:42

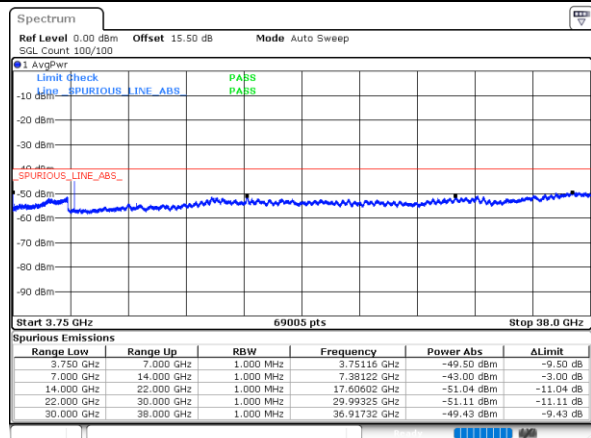


Date: 5.AUG.2022 21:41:39

Highest Channel / QPSK



Date: 5.AUG.2022 21:27:00

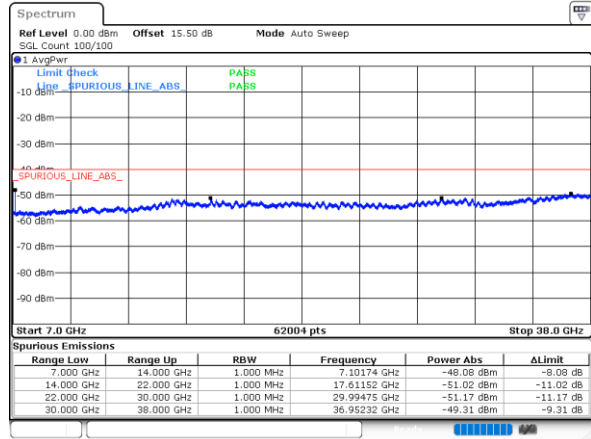
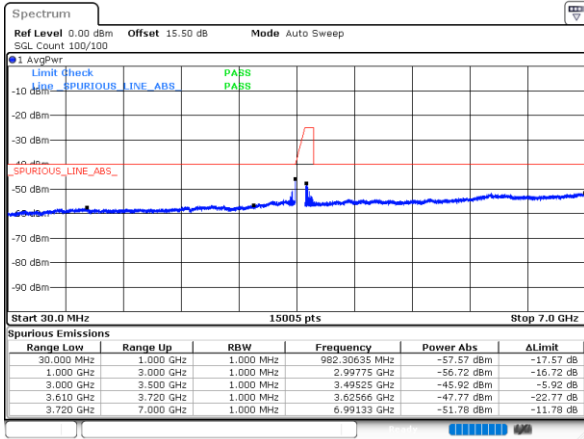


Date: 5.AUG.2022 21:42:59

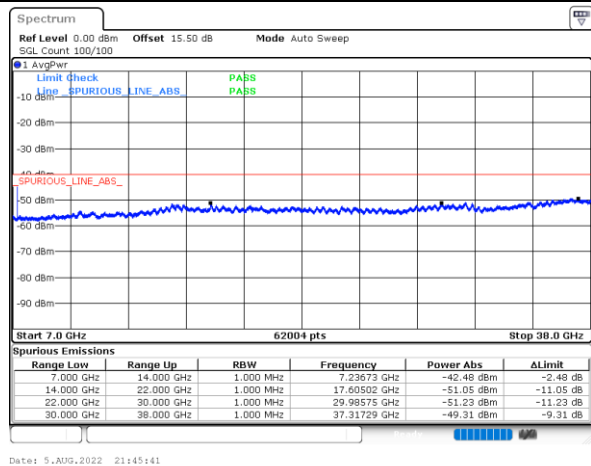
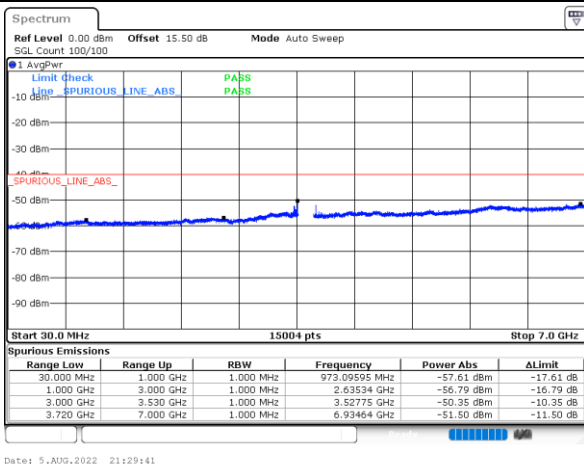


LTE Band 48 / 15MHz

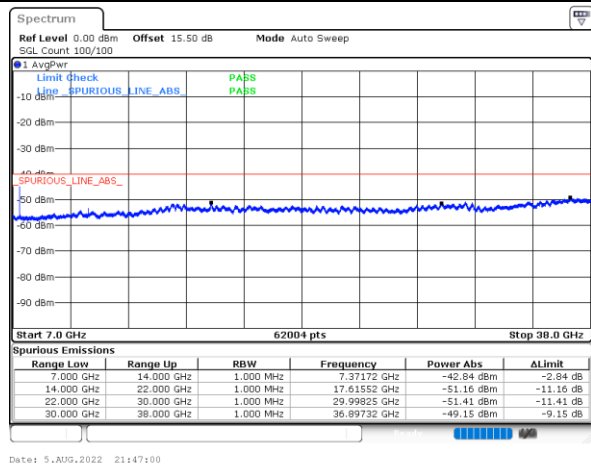
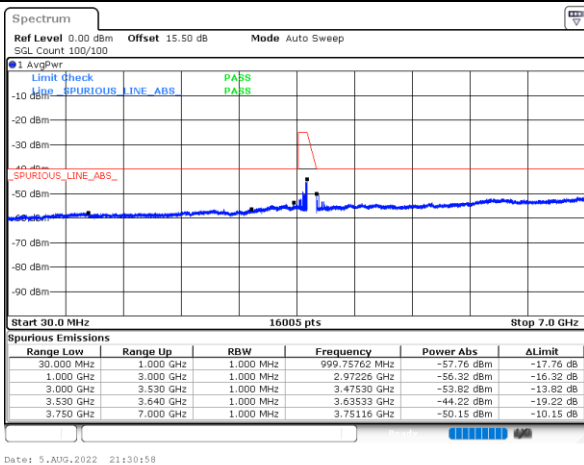
Lowest Channel / QPSK



Middle Channel / QPSK



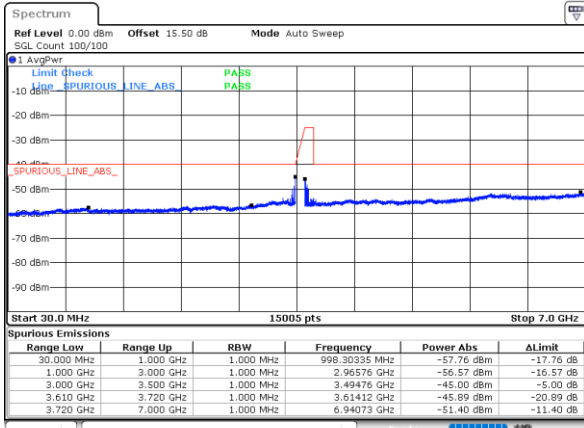
Highest Channel / QPSK



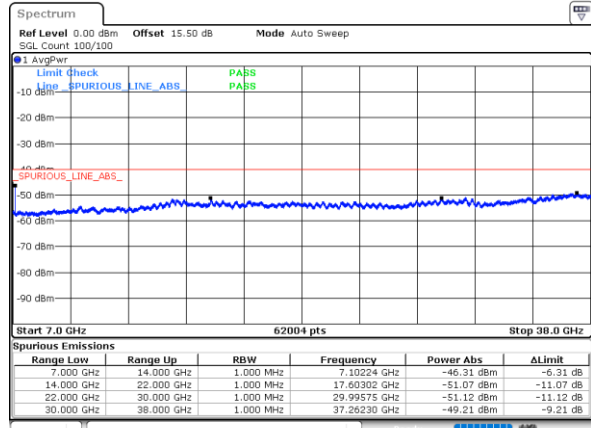


LTE Band 48 / 20MHz

Lowest Channel / QPSK

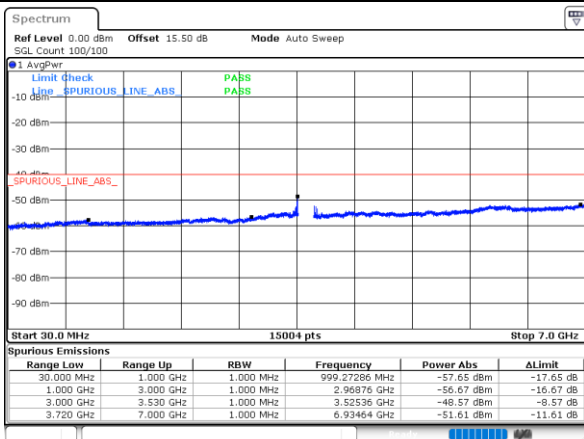


Date: 5.AUG.2022 21:32:21

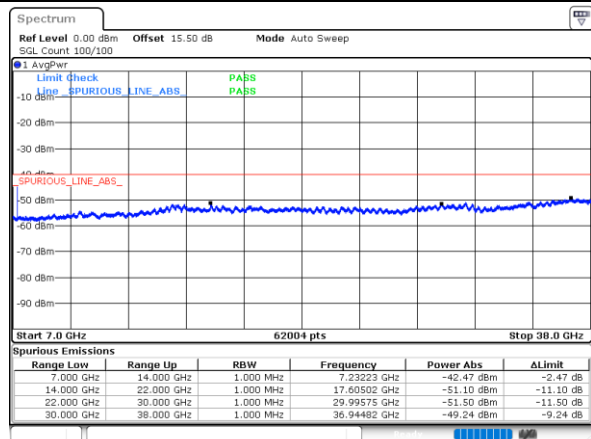


Date: 5.AUG.2022 21:48:24

Middle Channel / QPSK

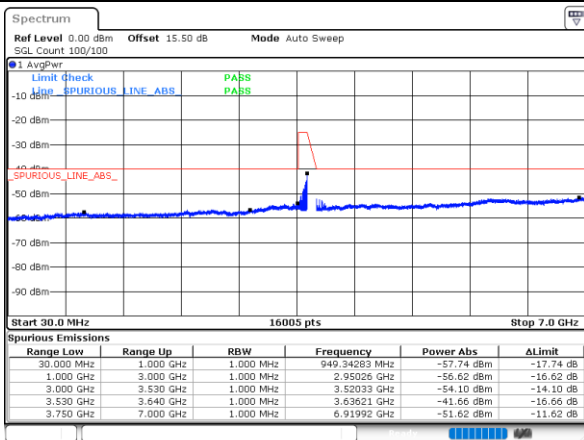


Date: 5.AUG.2022 21:33:39

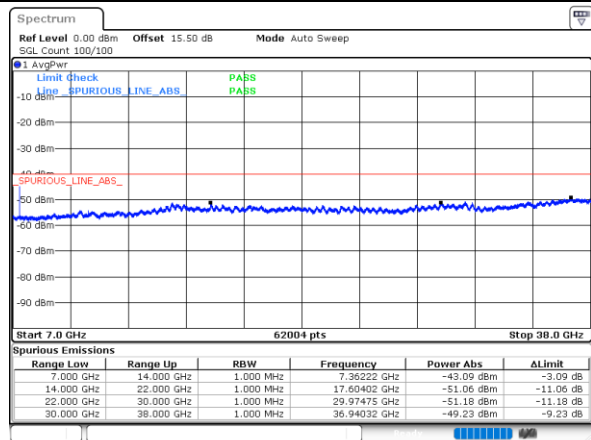


Date: 5.AUG.2022 21:49:42

Highest Channel / QPSK



Date: 5.AUG.2022 21:34:57



Date: 5.AUG.2022 21:51:00

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	0.0003	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0030	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

Note:

1. Normal Voltage = 3.30 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.63 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	24.98	29.91	34.62	24.98
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	34.90	39.88	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.73	29.79	35.11	24.73
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.15	34.76	39.80	-

Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.78	29.85	34.97	24.78
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	34.76	39.72	-

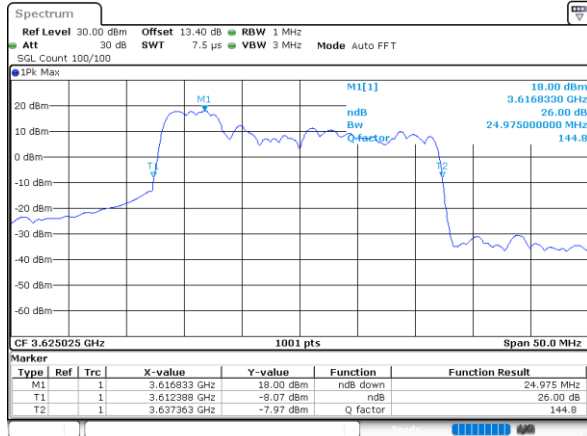
Mode	LTE Band 48C : 26dB BW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.78	29.79	34.76	24.98
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.91	34.90	39.72	-



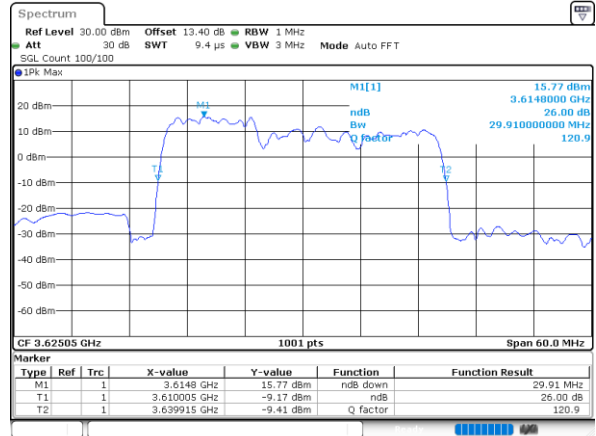
LTE Band 48C

QPSK

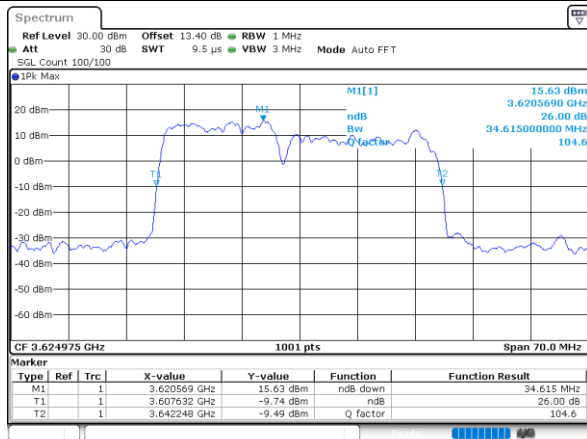
Middle Channel / 5MHz+20MHz



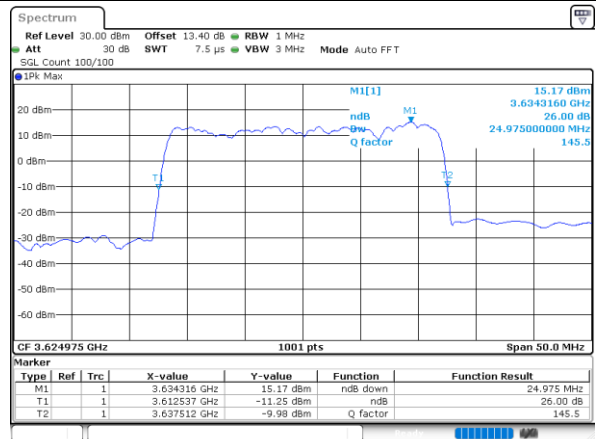
Middle Channel / 10MHz+20MHz



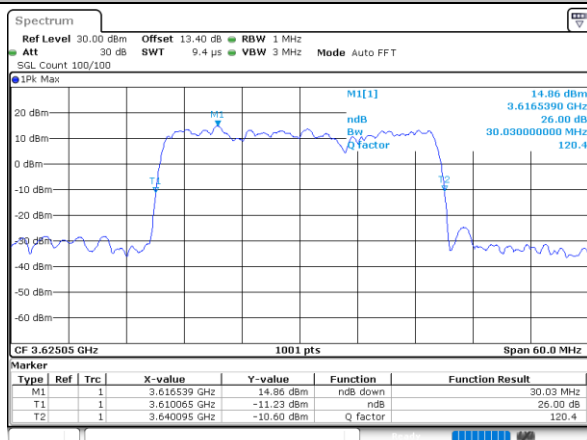
Middle Channel / 15MHz+20MHz



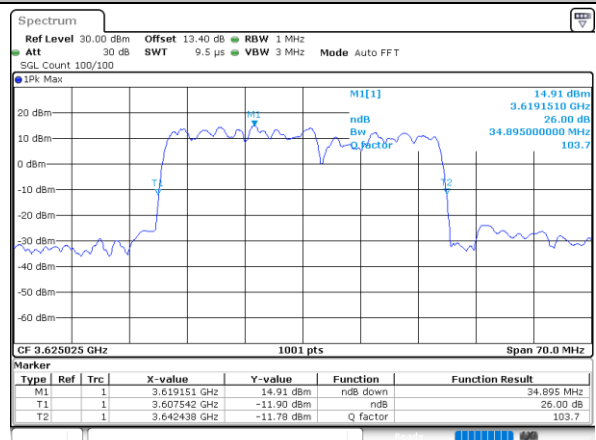
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



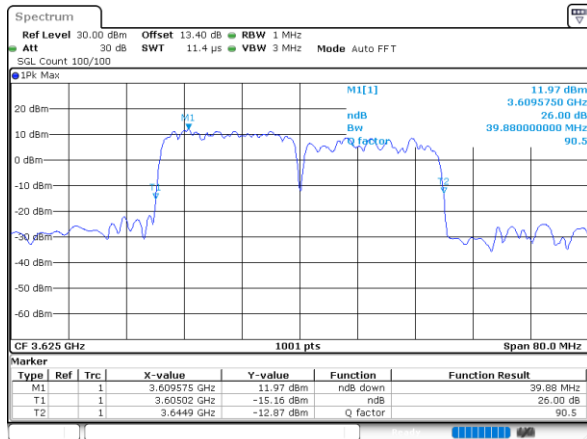


LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A

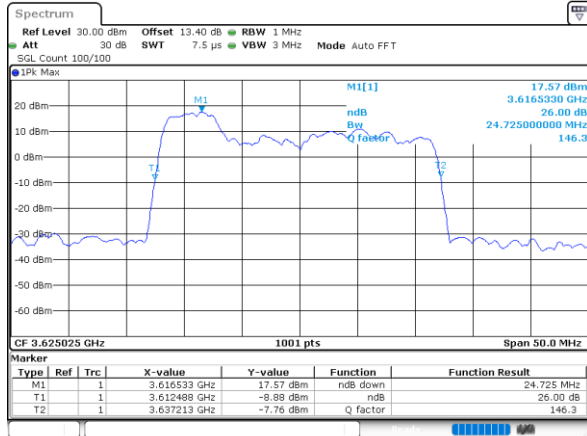




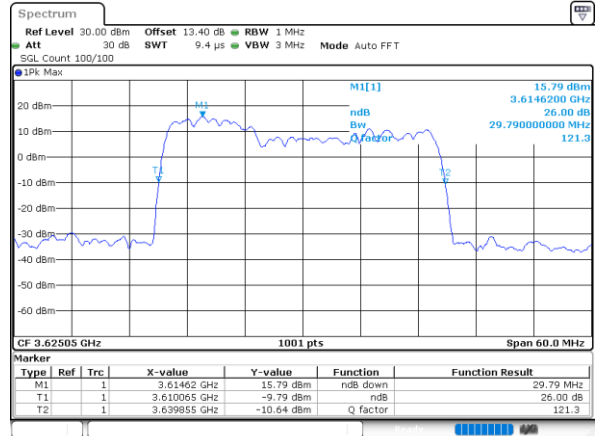
LTE Band 48C

16QAM

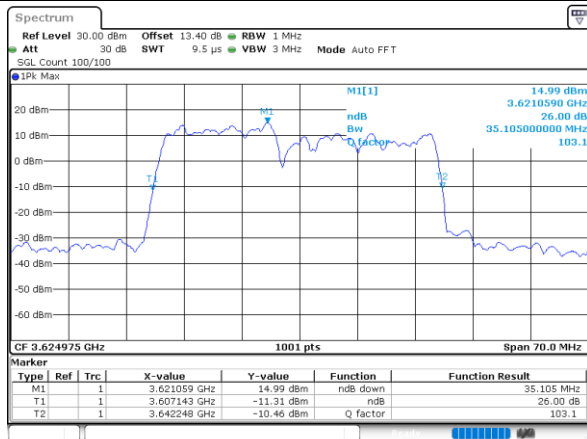
Middle Channel / 5MHz+20MHz



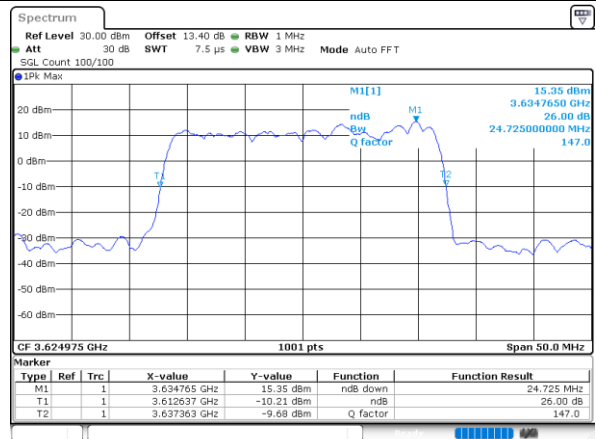
Middle Channel / 10MHz+20MHz



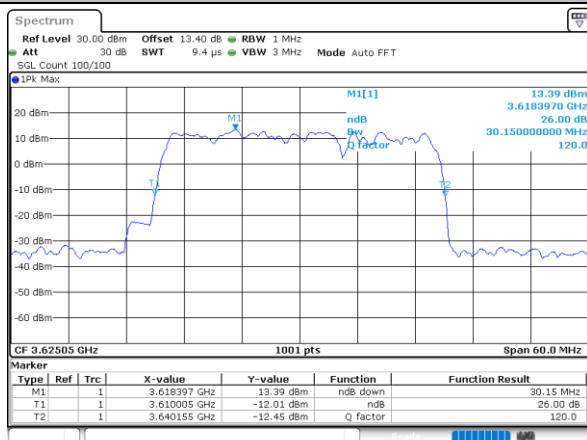
Middle Channel / 15MHz+20MHz



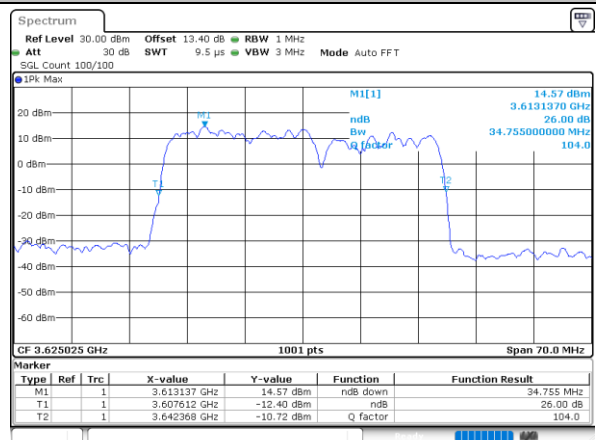
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



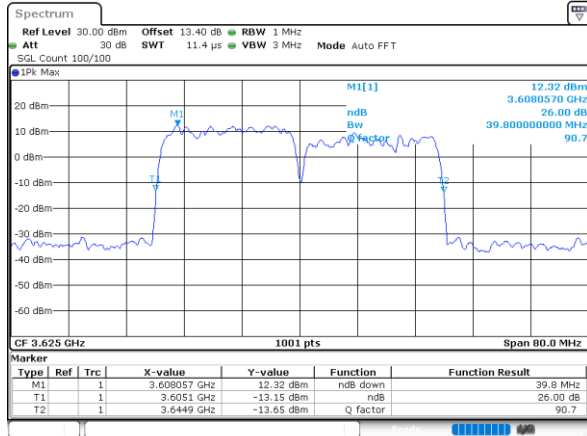


LTE Band 48C

16QAM

Middle Channel / 20MHz+20MHz

N/A

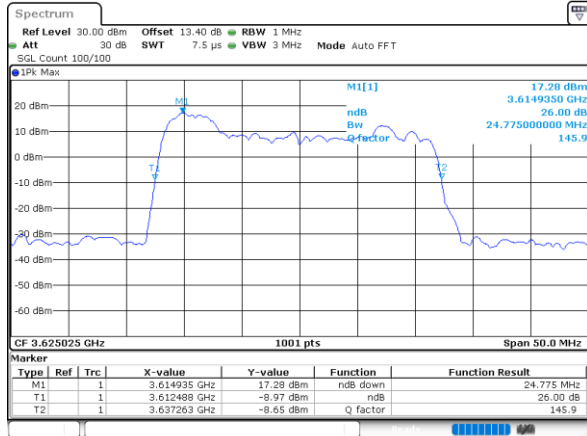




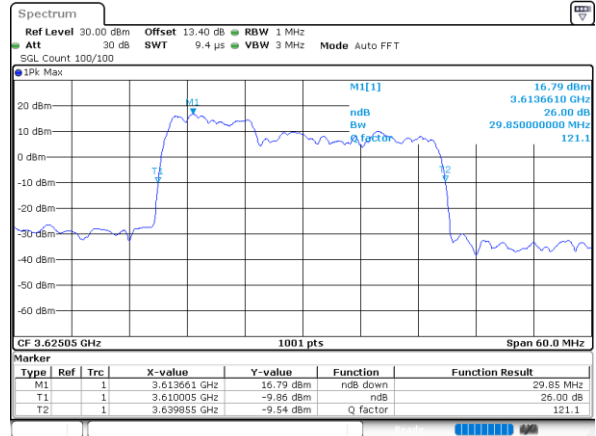
LTE Band 48C

64QAM

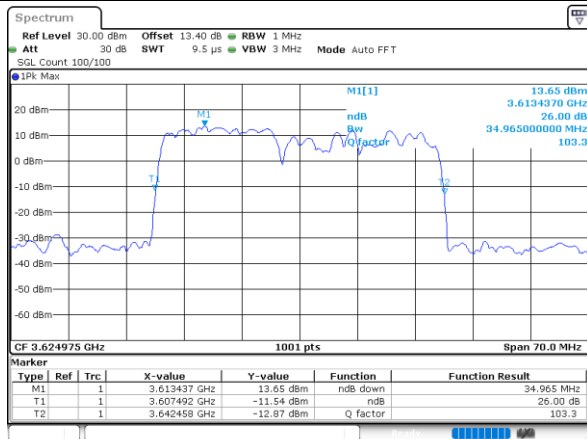
Middle Channel / 5MHz+20MHz



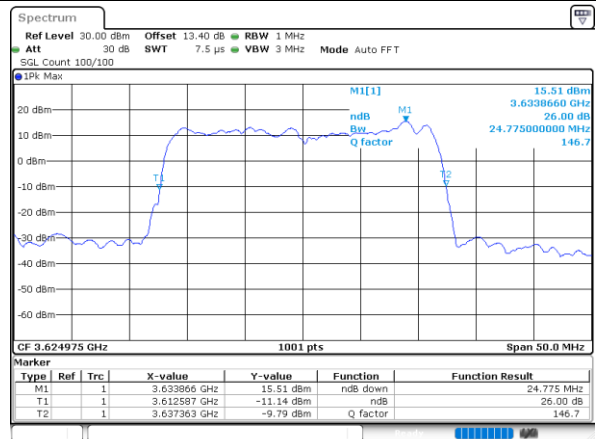
Middle Channel / 10MHz+20MHz



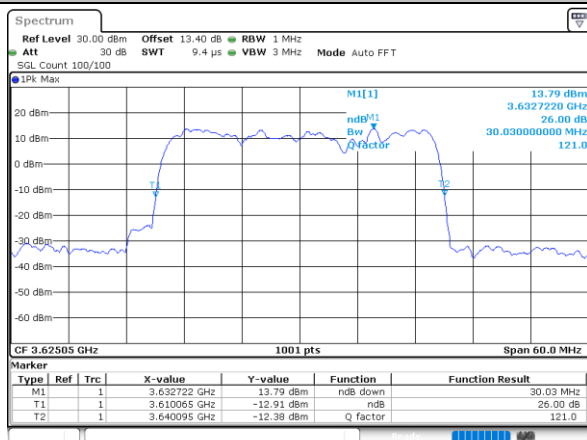
Middle Channel / 15MHz+20MHz



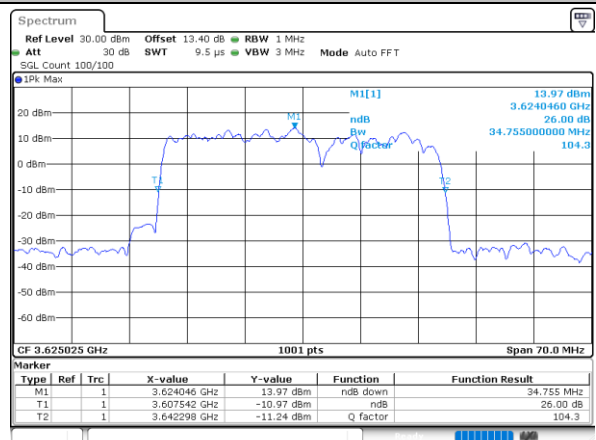
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



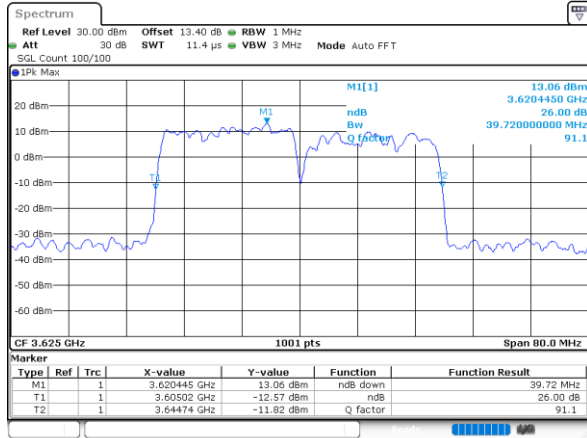


LTE Band 48C

64QAM

Middle Channel / 20MHz+20MHz

N/A

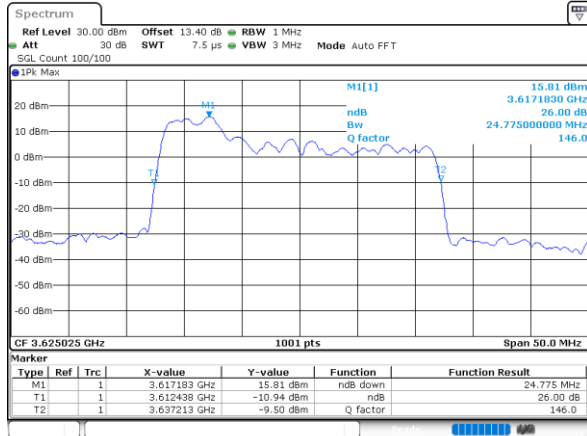




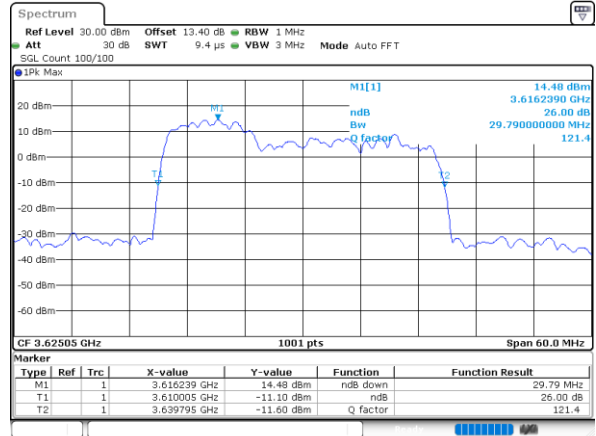
LTE Band 48C

256QAM

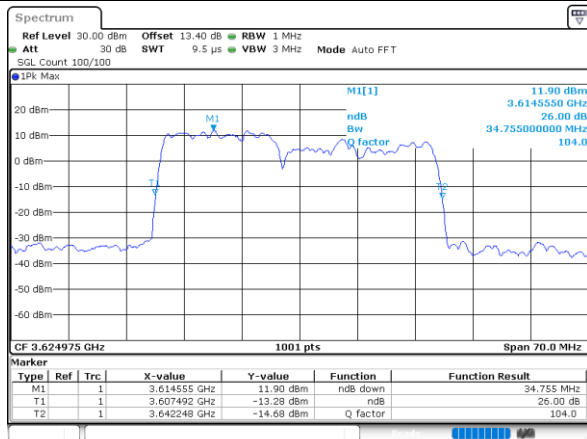
Middle Channel / 5MHz+20MHz



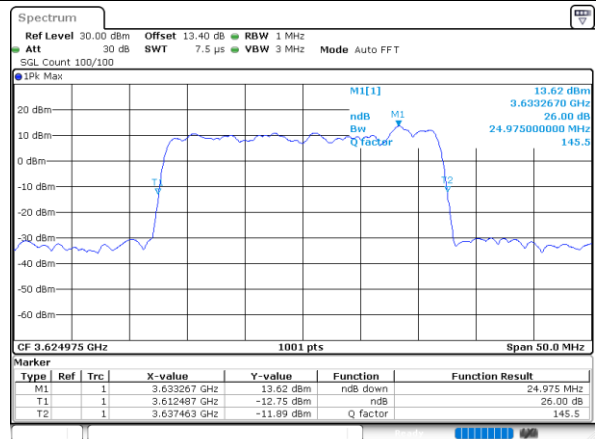
Middle Channel / 10MHz+20MHz



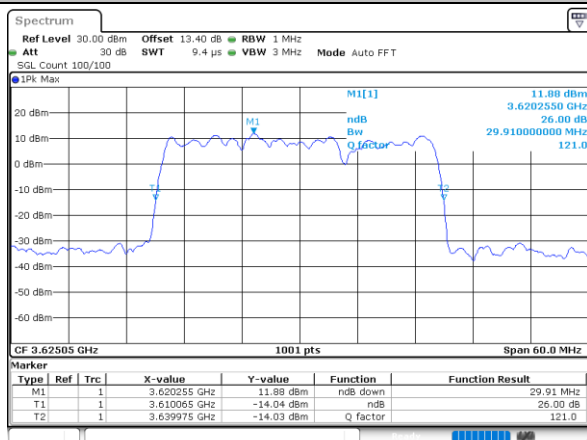
Middle Channel / 15MHz+20MHz



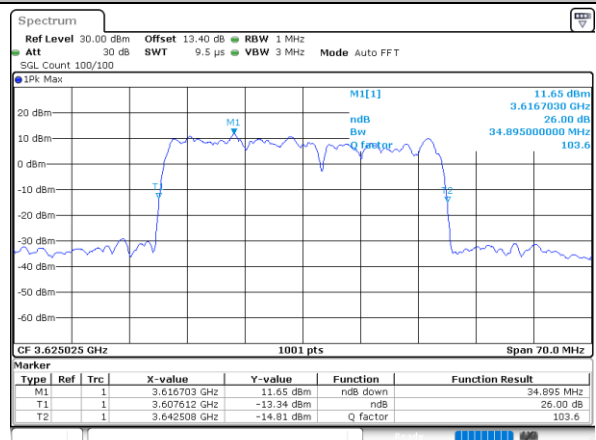
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



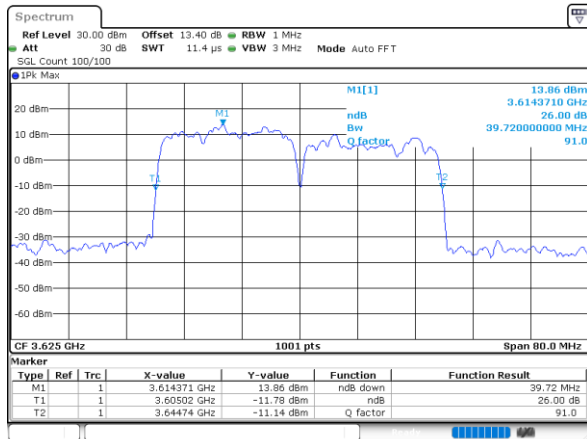


LTE Band 48C

256QAM

Middle Channel / 20MHz+20MHz

N/A



Occupied Bandwidth

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.28	28.05	32.94	23.08
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.81	32.87	37.56	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.53	27.93	32.80	23.33
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.29	32.80	37.56	-

Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	22.98	27.75	32.94	23.33
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.87	32.59	37.64	-

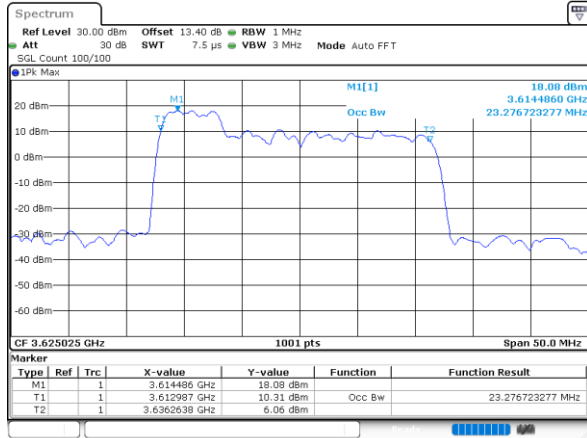
Mode	LTE Band 48C : 99%OBW(MHz)			
256QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	23.23	28.23	33.01	23.23
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.05	32.94	37.24	-



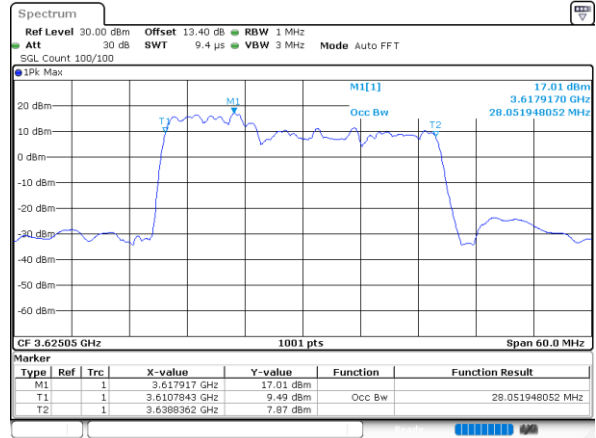
LTE Band 48C

QPSK

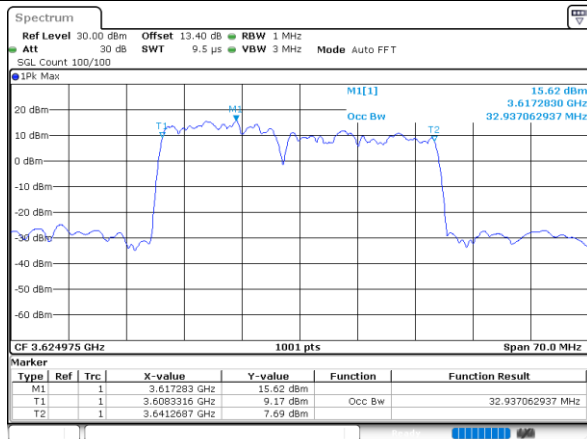
Middle Channel / 5MHz+20MHz



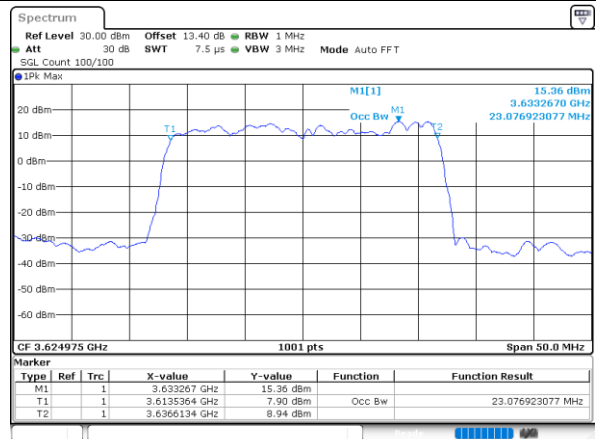
Middle Channel / 10MHz+20MHz



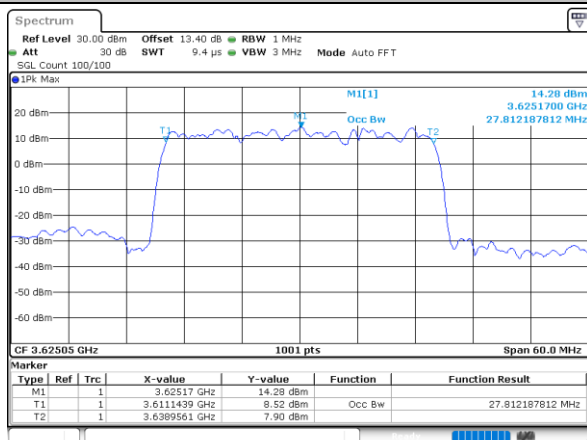
Middle Channel / 15MHz+20MHz



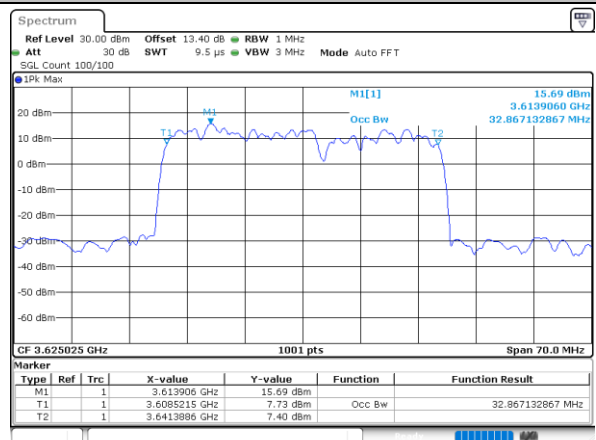
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz





LTE Band 48C

QPSK

Middle Channel / 20MHz+20MHz

N/A

