

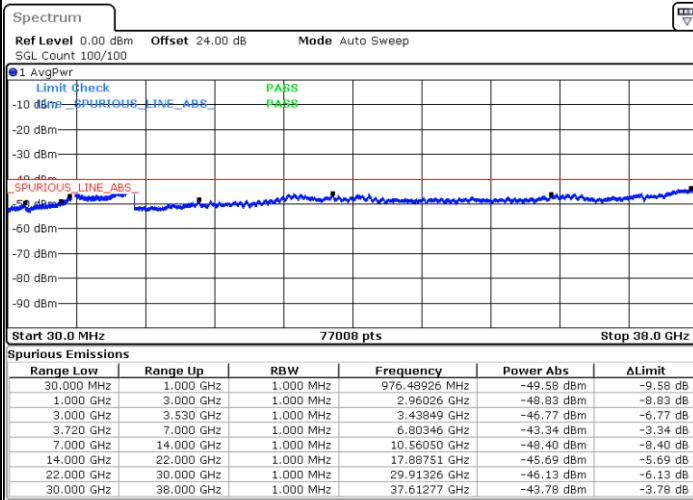


LTE Band 48 / 20MHz

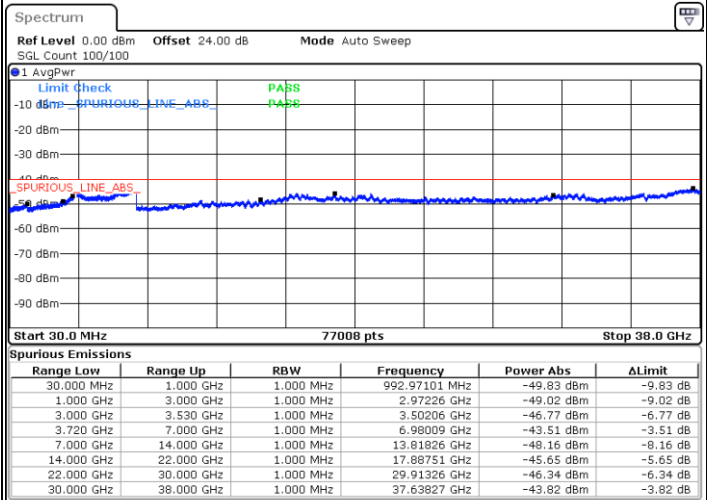
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



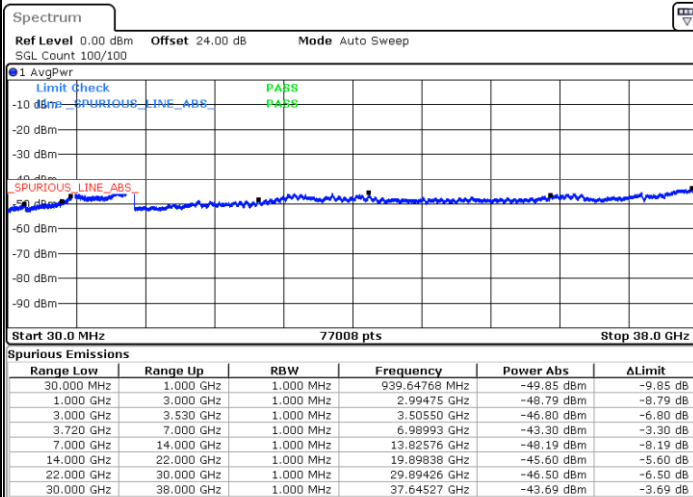
Date: 4 AUG 2020 03:00:01



Date: 4 AUG 2020 03:09:59

Middle Channel / FullIRB

N/A



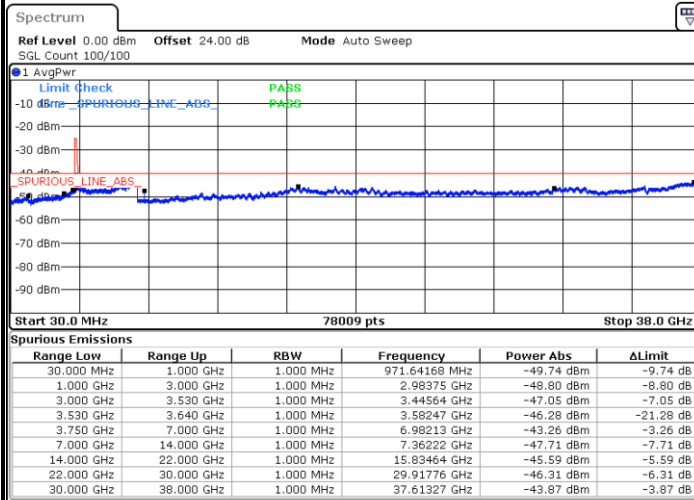
Date: 4 AUG 2020 02:50:02



LTE Band 48 / 20MHz

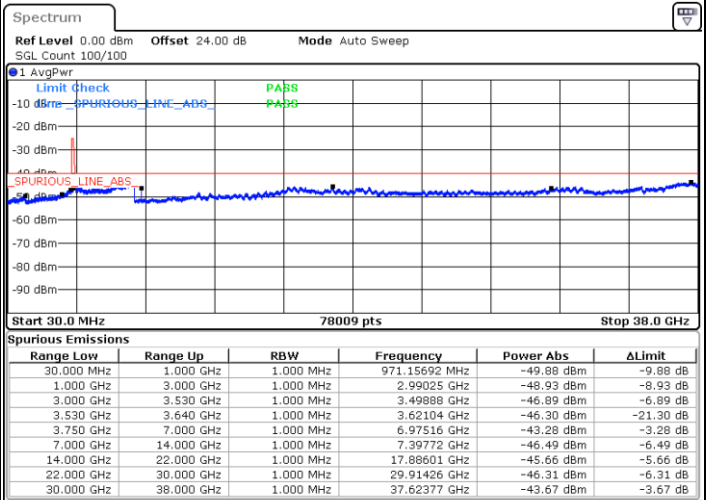
64QAM

Highest Channel / 1RB0



Date: 4 AUG 2020 03:01:07

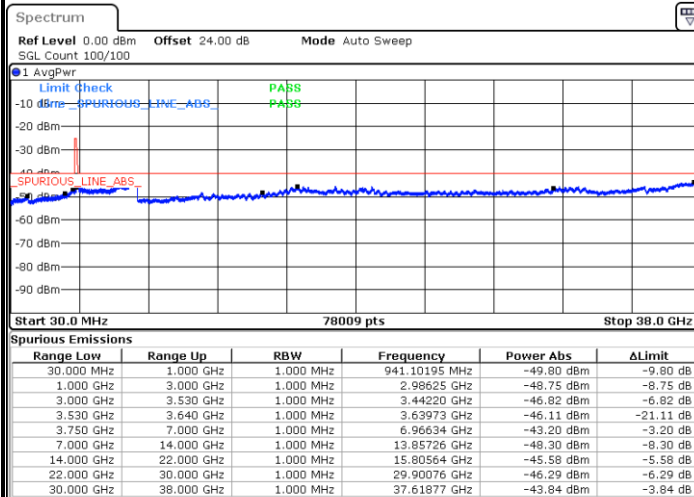
Highest Channel / 1RBmax



Date: 4 AUG 2020 03:11:06

Highest Channel / FullRB

N/A



Date: 4 AUG 2020 02:51:08

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	0.0030	PASS
40	Normal Voltage	0.0044	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0049	
-20	Normal Voltage	0.0048	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0050	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage = DC 48 V. ; Battery End Point (BEP) = DC 36 V. ; Maximum Voltage = DC 55 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 48C

<CA Mode for Sample 2>

26dB Bandwidth

Mode	LTE Band 48C : 26dB BW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	24.93	30.15	35.18	24.93
Middle CH	24.93	29.91	35.18	24.83
Highest CH	24.88	29.85	34.97	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.09	34.90	39.96	-
Middle CH	30.03	34.90	39.88	-
Highest CH	30.03	34.97	39.80	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	24.83	29.91	34.83	24.88
Middle CH	24.78	30.03	35.11	24.93
Highest CH	24.78	29.85	34.90	24.73
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.09	34.90	39.88	-
Middle CH	29.85	34.90	39.88	-
Highest CH	30.03	35.04	40.04	-

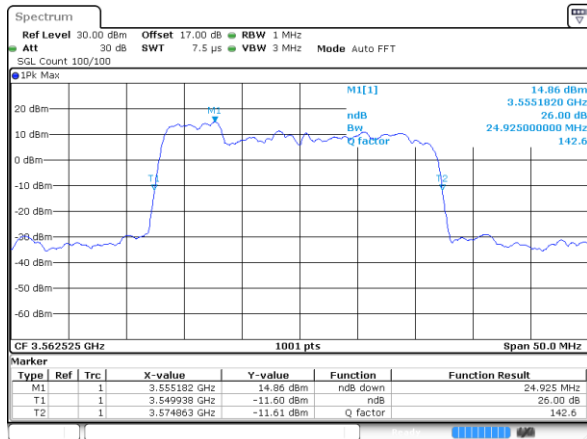
Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	24.83	29.97	35.04	24.78
Middle CH	24.78	30.15	34.97	24.88
Highest CH	24.93	29.97	34.97	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	29.97	34.90	40.04	-
Middle CH	29.97	34.97	39.96	-
Highest CH	30.03	34.83	39.88	-



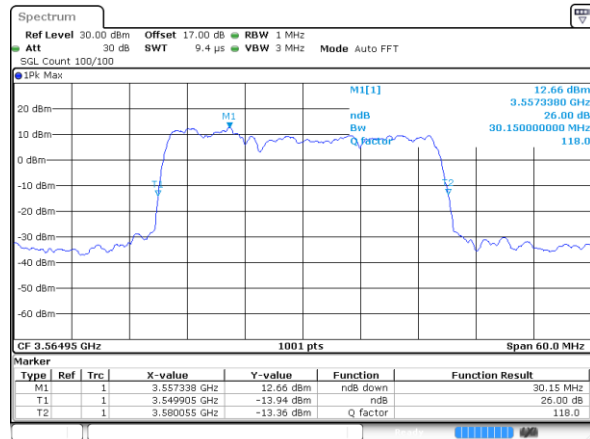
LTE Band 48C

QPSK

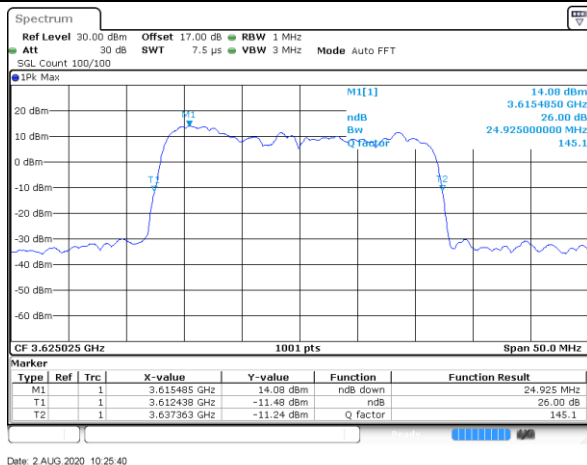
Lowest Channel / 5MHz+20MHz



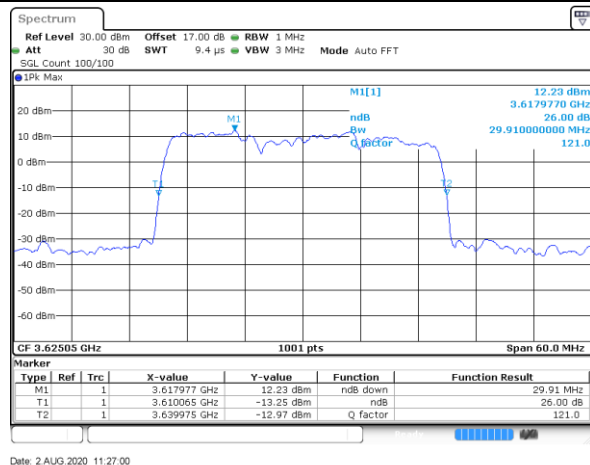
Lowest Channel / 10MHz+20MHz



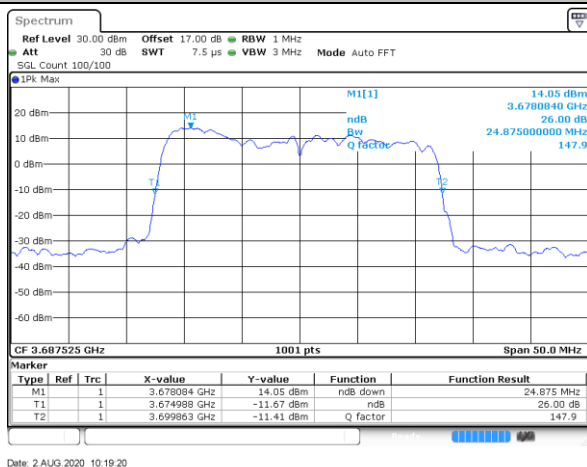
Middle Channel / 5MHz+20MHz



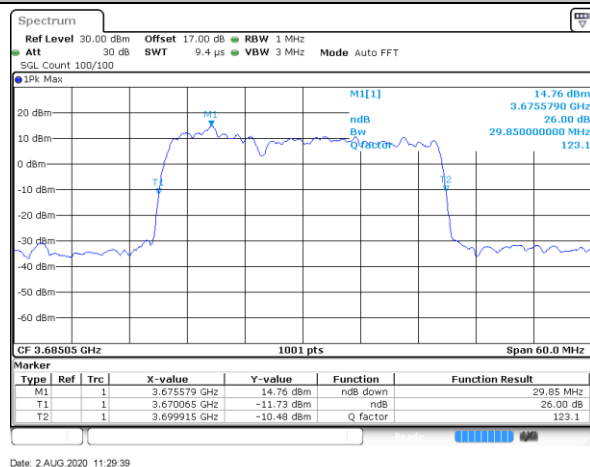
Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+20MHz

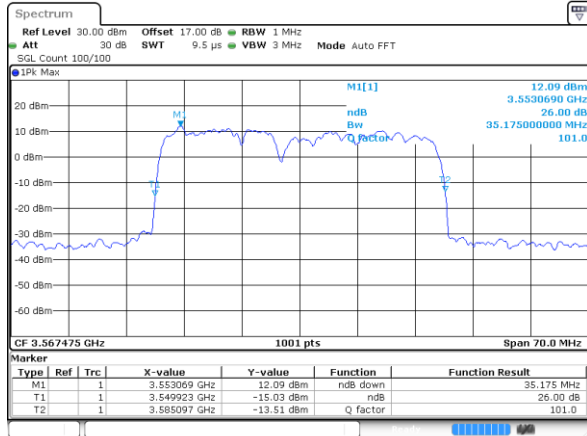




LTE Band 48C

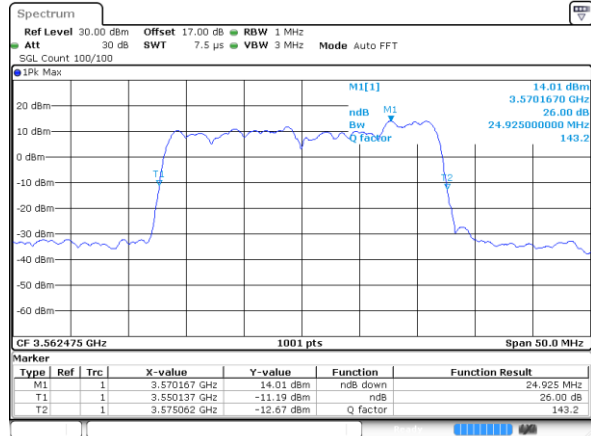
QPSK

Lowest Channel / 15MHz+20MHz



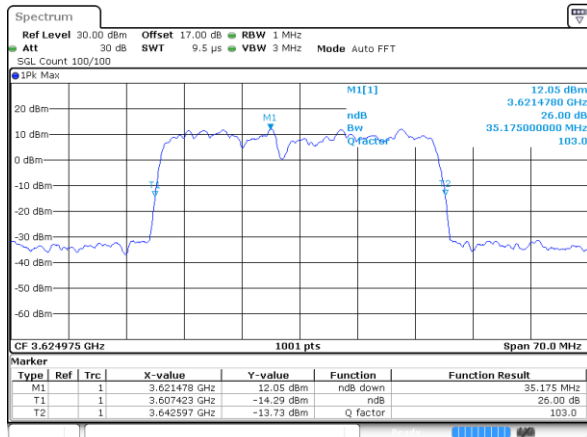
Date: 2 AUG 2020 11:48:54

Lowest Channel / 20MHz+5MHz



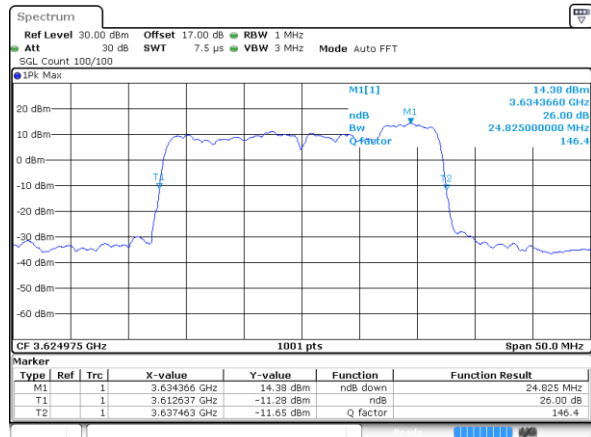
Date: 2 AUG 2020 11:00:52

Middle Channel / 15MHz+20MHz



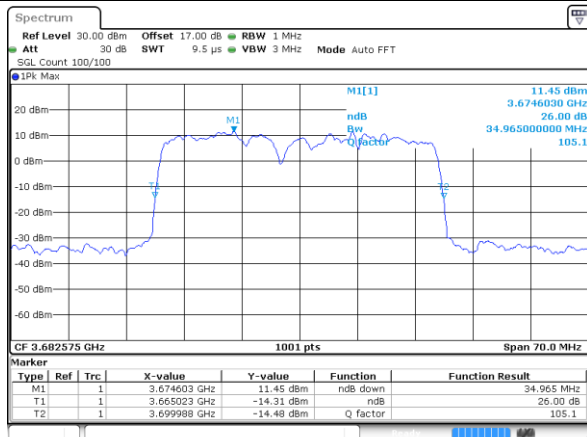
Date: 2 AUG 2020 11:52:24

Middle Channel / 20MHz+5MHz



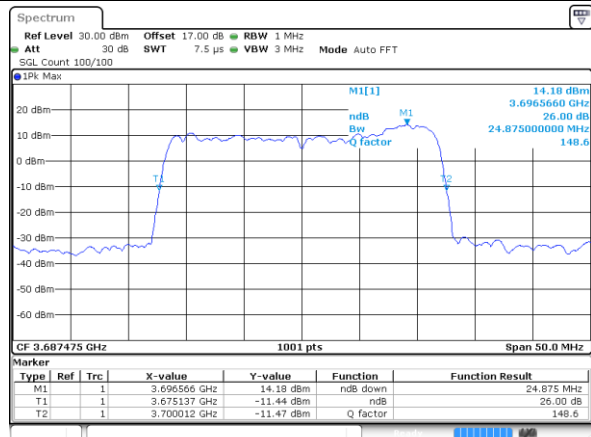
Date: 2 AUG 2020 11:05:33

Highest Channel / 15MHz+20MHz



Date: 2 AUG 2020 11:56:32

Highest Channel / 20MHz+5MHz



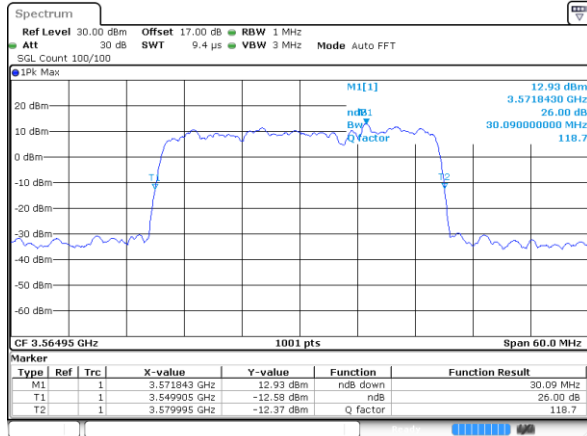
Date: 2 AUG 2020 11:08:46



LTE Band 48C

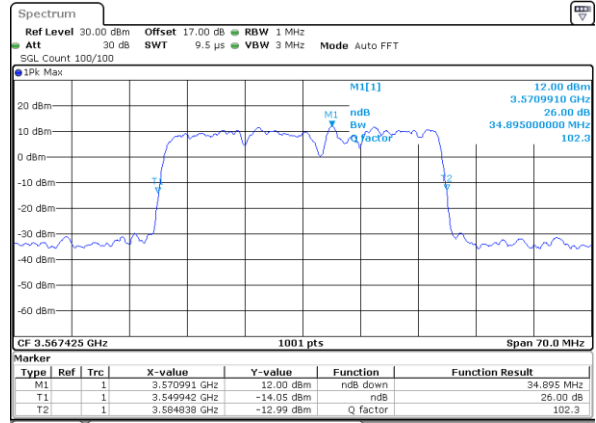
QPSK

Lowest Channel / 20MHz+10MHz



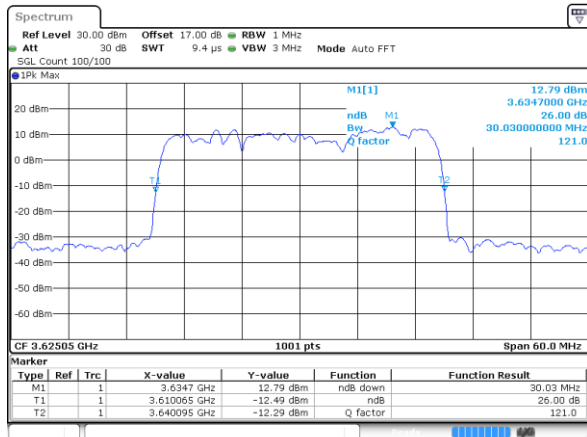
Date: 2 AUG 2020 11:34:35

Lowest Channel / 20MHz+15MHz



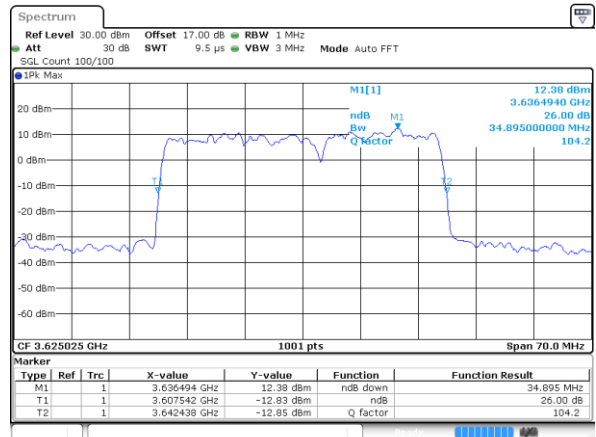
Date: 2 AUG 2020 12:04:04

Middle Channel / 20MHz+10MHz



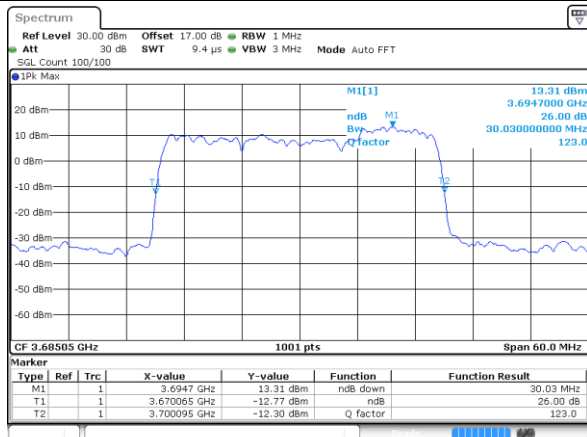
Date: 2 AUG 2020 11:39:36

Middle Channel / 20MHz+15MHz



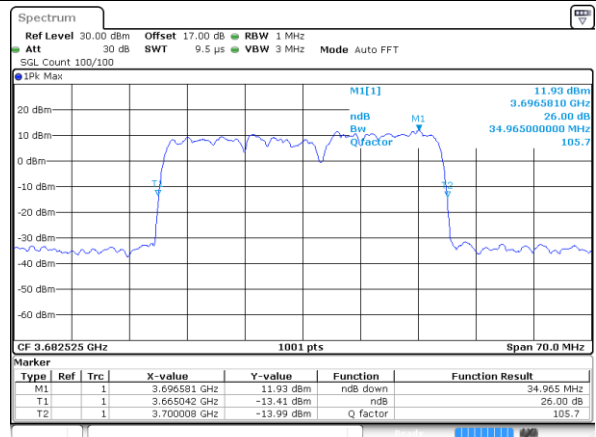
Date: 2 AUG 2020 12:07:15

Highest Channel / 20MHz+10MHz



Date: 2 AUG 2020 11:42:00

Highest Channel / 20MHz+15MHz



Date: 2 AUG 2020 12:10:33

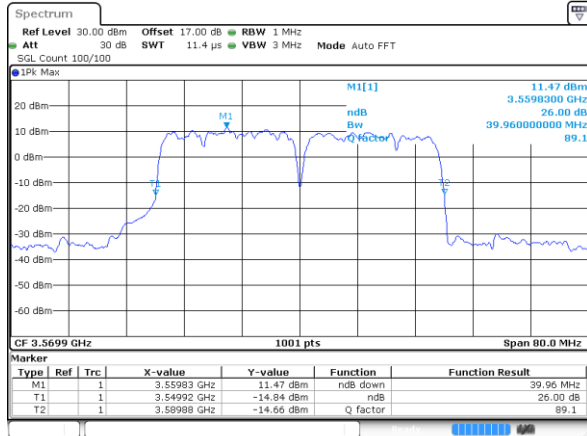


LTE Band 48C

QPSK

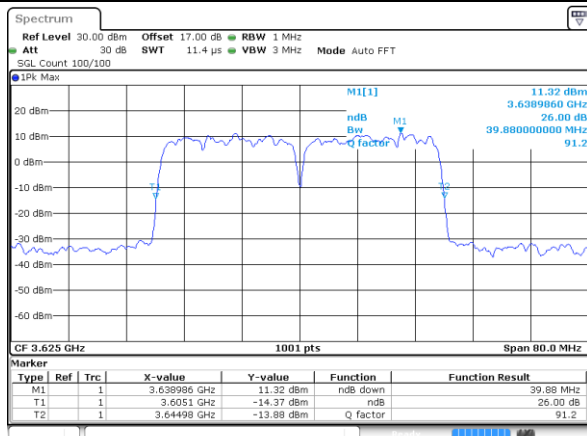
Lowest Channel / 20MHz+20MHz

N/A



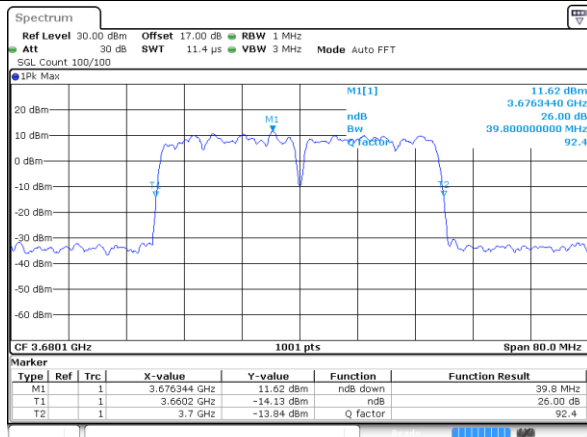
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A

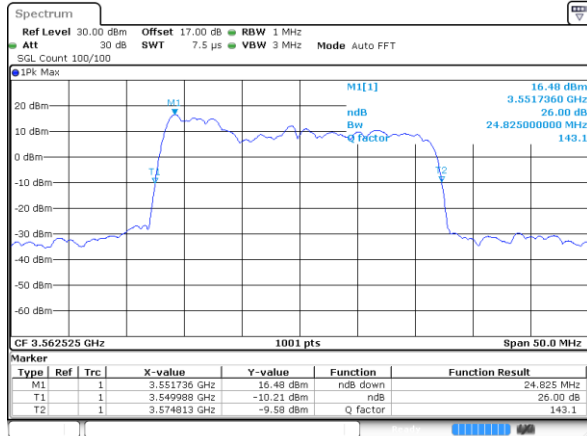




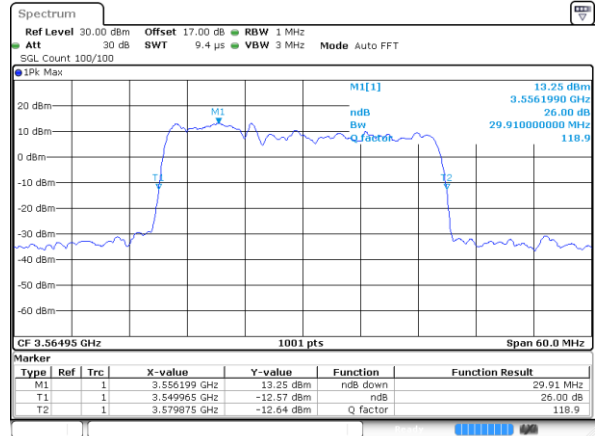
LTE Band 48C

16QAM

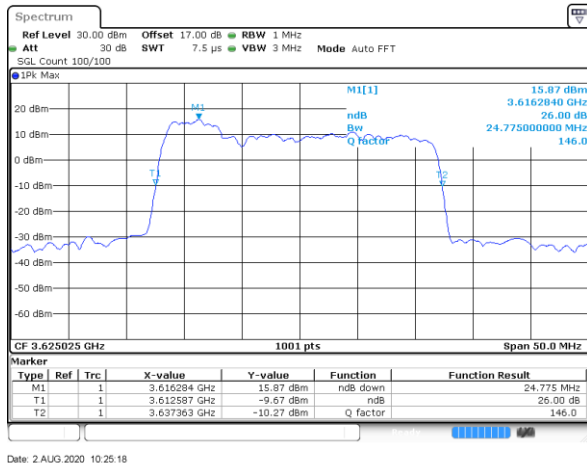
Lowest Channel / 5MHz+20MHz



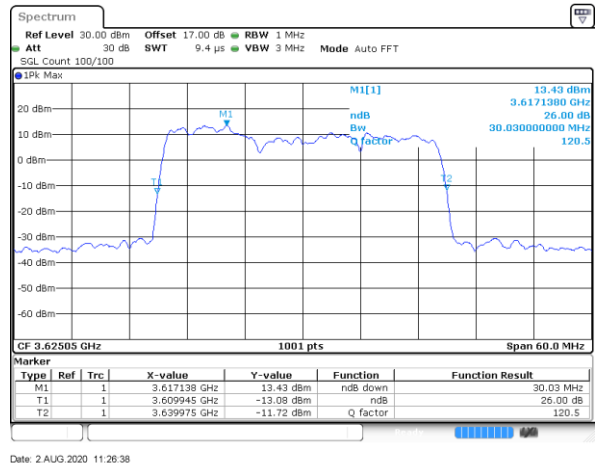
Lowest Channel / 10MHz+20MHz



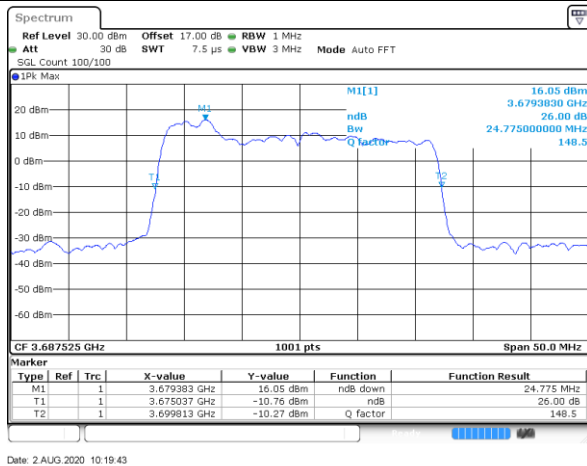
Middle Channel / 5MHz+20MHz



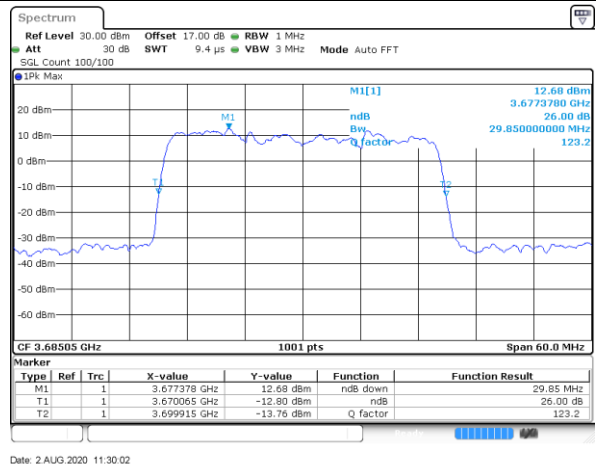
Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+20MHz

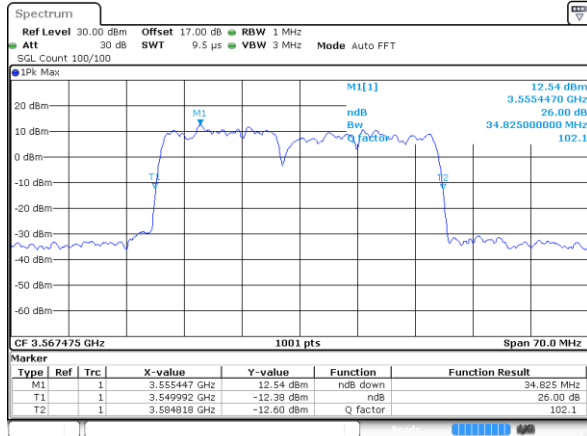




LTE Band 48C

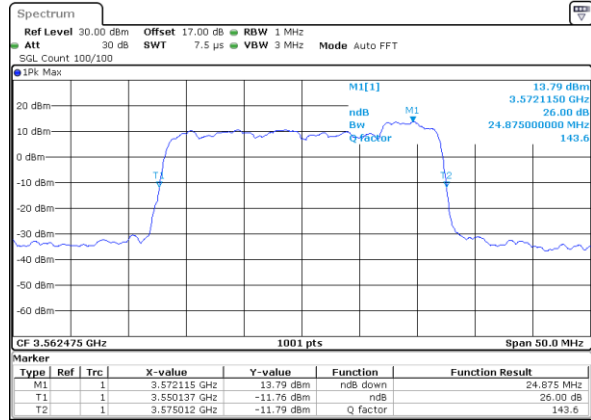
16QAM

Lowest Channel / 15MHz+20MHz



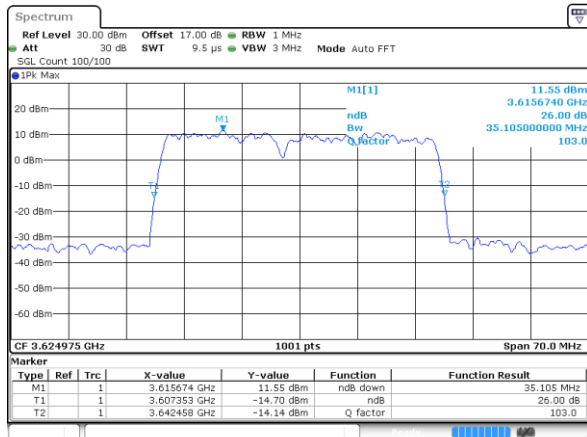
Date: 2 AUG 2020 11:48:31

Lowest Channel / 20MHz+5MHz



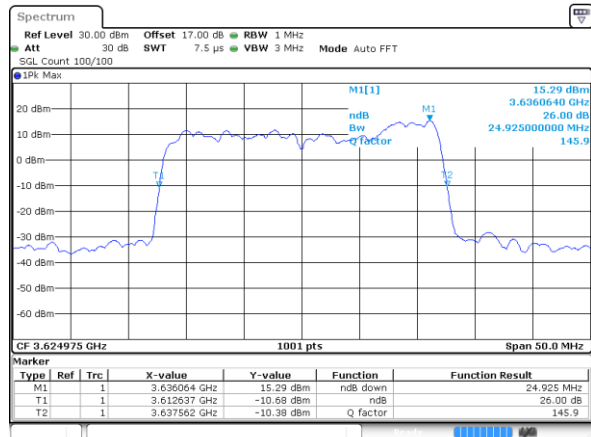
Date: 2 AUG 2020 11:00:30

Middle Channel / 15MHz+20MHz



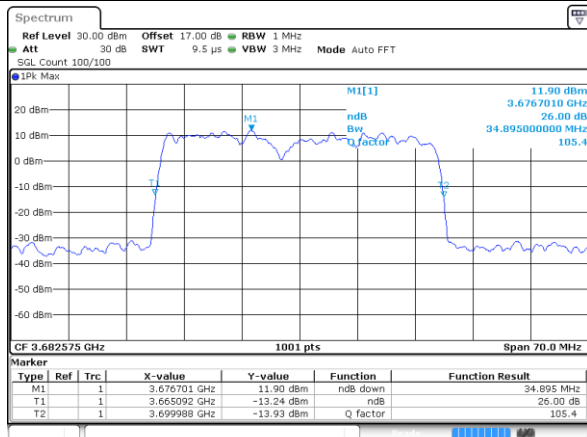
Date: 2 AUG 2020 11:52:02

Middle Channel / 20MHz+5MHz



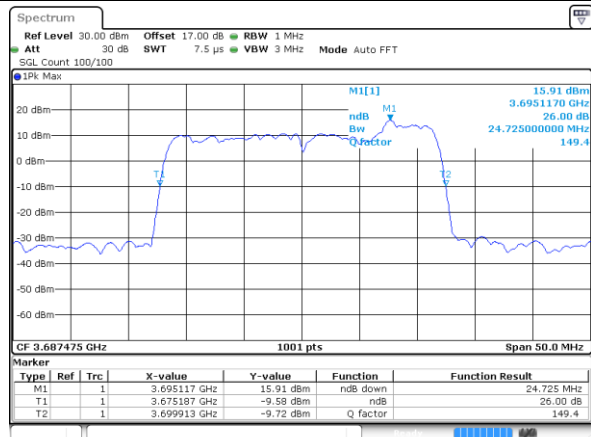
Date: 2 AUG 2020 11:05:10

Highest Channel / 15MHz+20MHz



Date: 2 AUG 2020 11:56:54

Highest Channel / 20MHz+5MHz



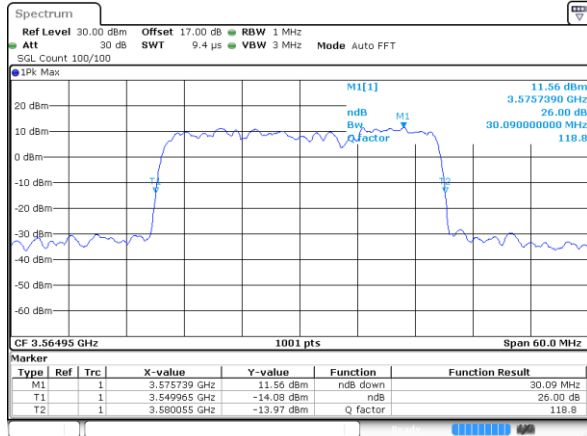
Date: 2 AUG 2020 11:09:09



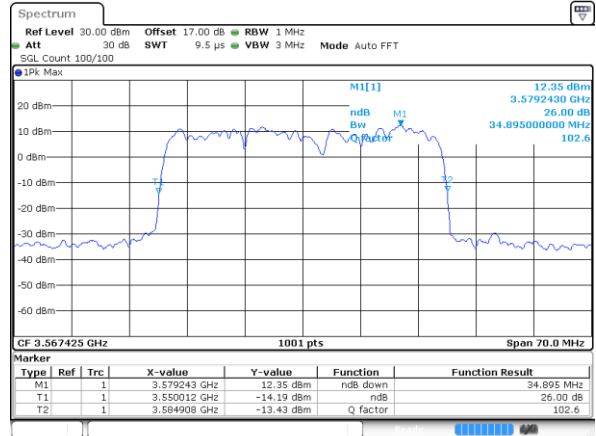
LTE Band 48C

16QAM

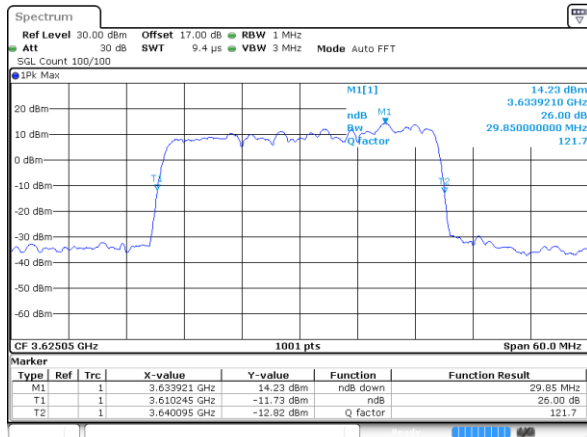
Lowest Channel / 20MHz+10MHz



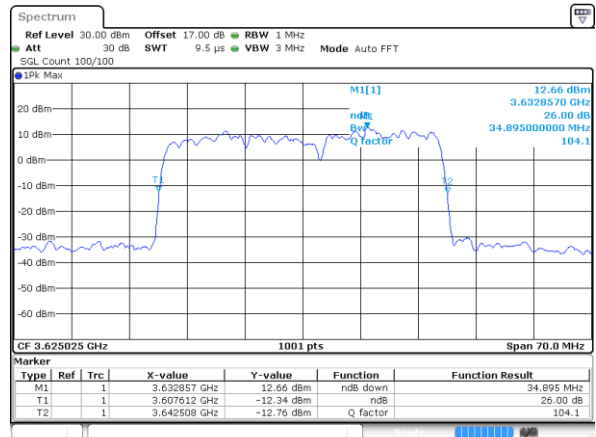
Lowest Channel / 20MHz+15MHz



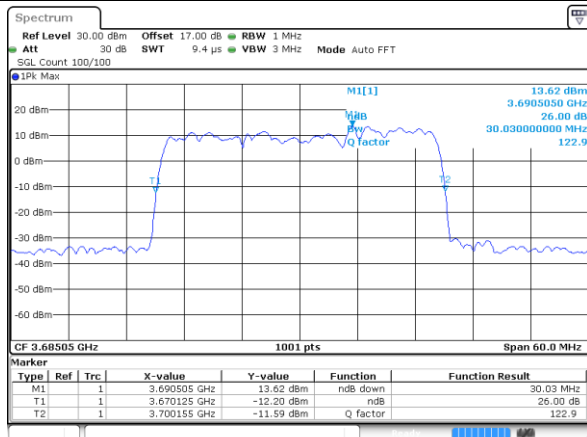
Middle Channel / 20MHz+10MHz



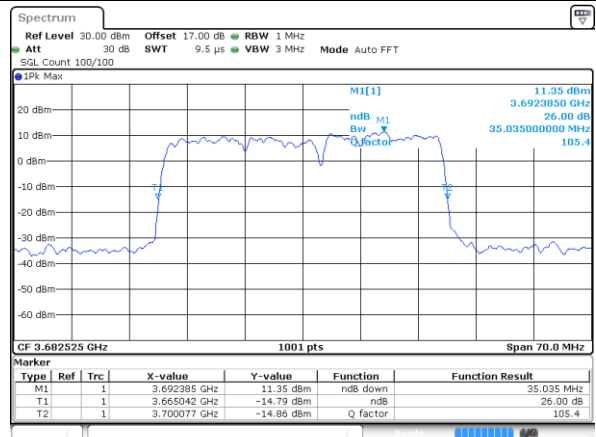
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



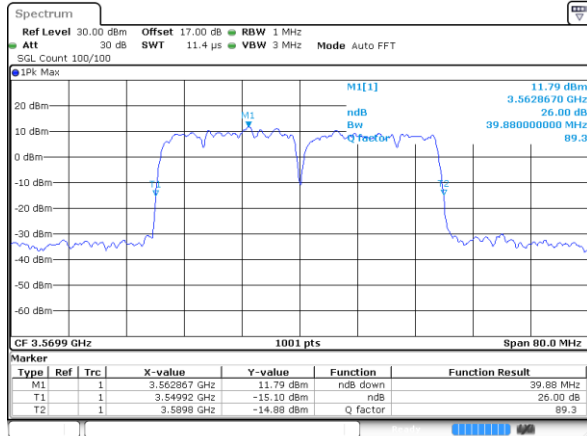


LTE Band 48C

16QAM

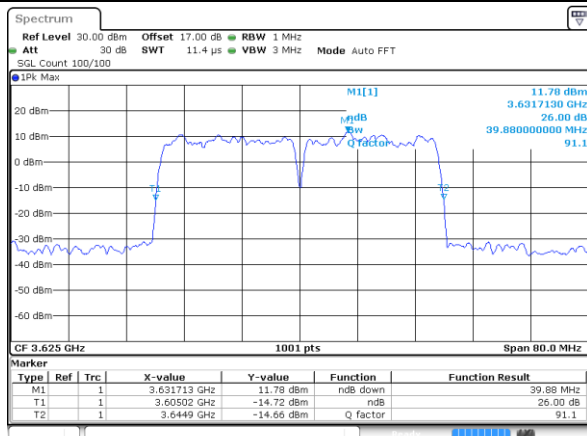
Lowest Channel / 20MHz+20MHz

N/A



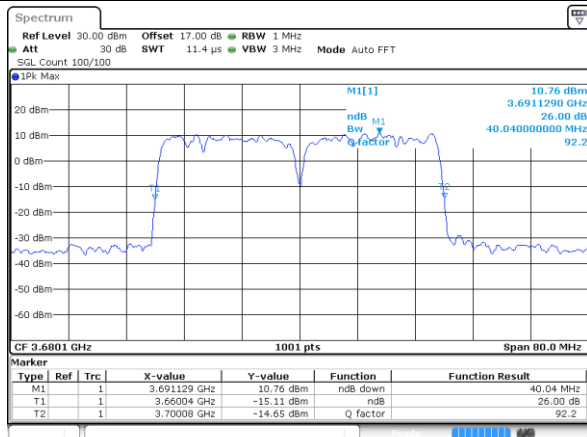
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A

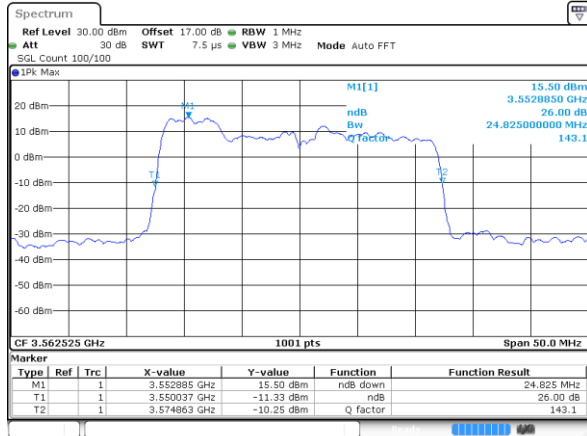




LTE Band 48C

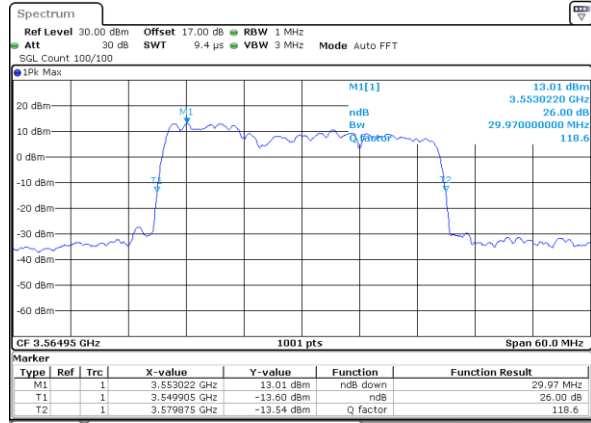
64QAM

Lowest Channel / 5MHz+20MHz



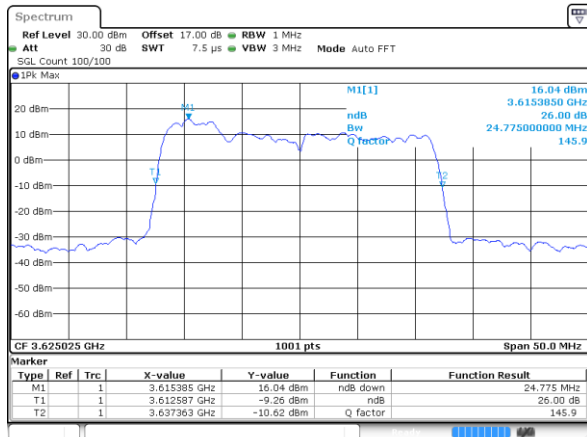
Date: 2 AUG 2020 10:30:10

Lowest Channel / 10MHz+20MHz



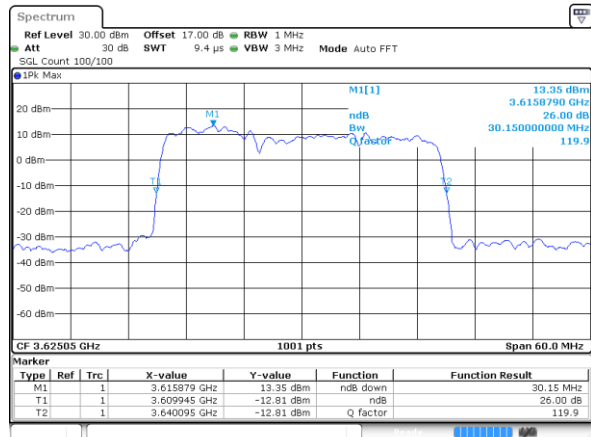
Date: 2 AUG 2020 11:22:50

Middle Channel / 5MHz+20MHz



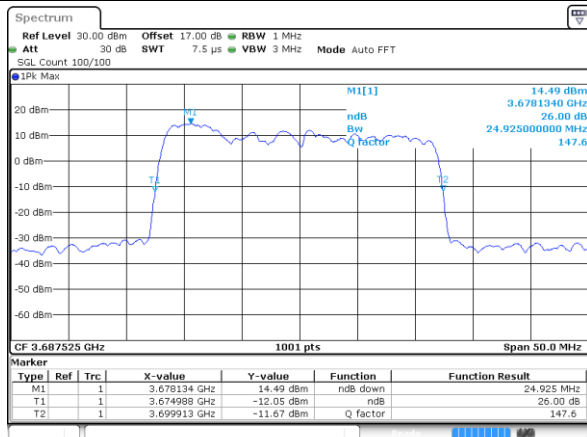
Date: 2 AUG 2020 10:24:55

Middle Channel / 10MHz+20MHz



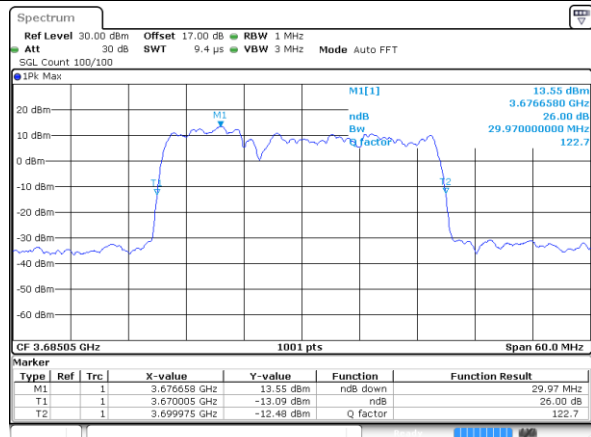
Date: 2 AUG 2020 11:26:15

Highest Channel / 5MHz+20MHz



Date: 2 AUG 2020 10:20:06

Highest Channel / 10MHz+20MHz



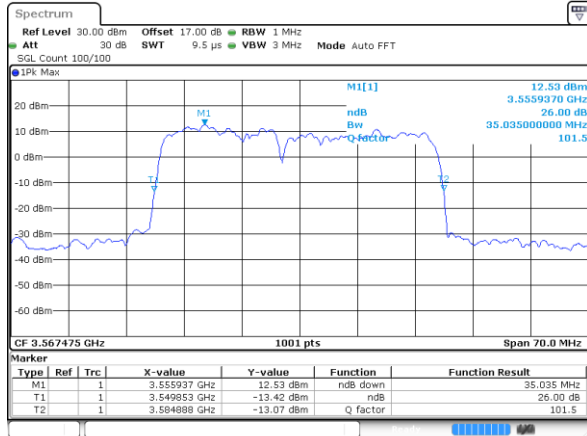
Date: 2 AUG 2020 11:30:24



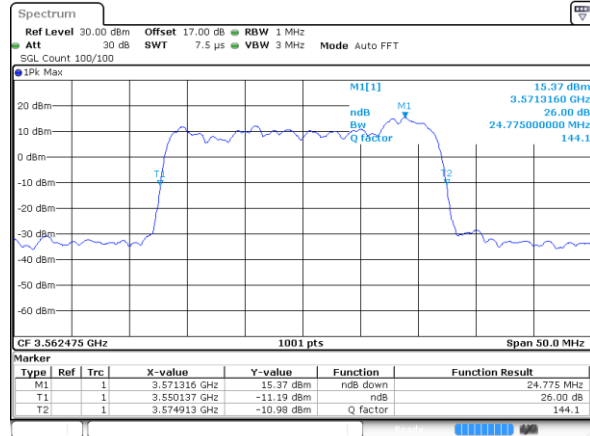
LTE Band 48C

64QAM

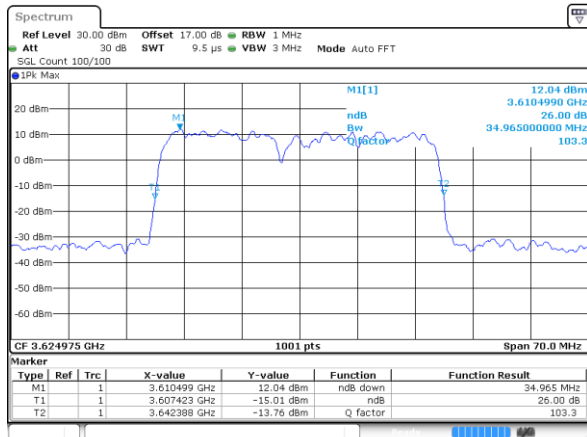
Lowest Channel / 15MHz+20MHz



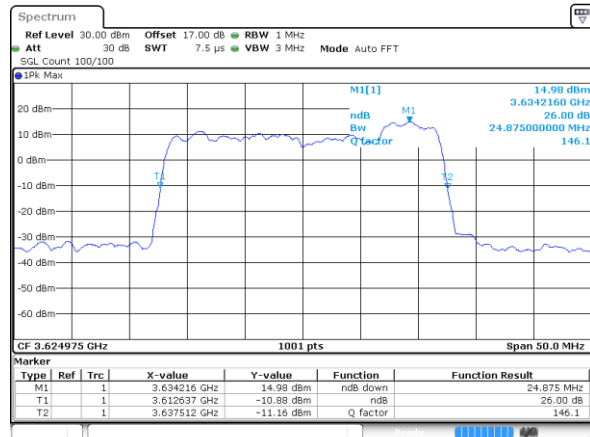
Lowest Channel / 20MHz+5MHz



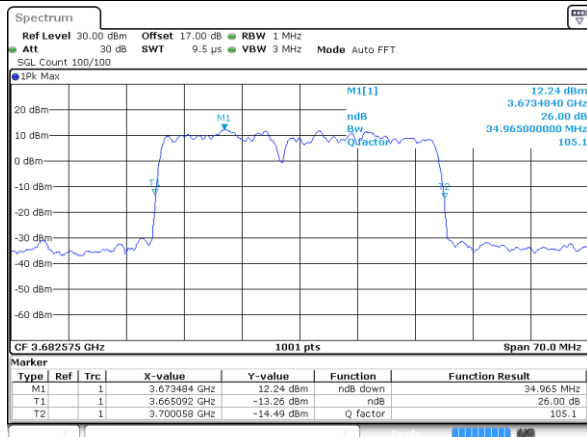
Middle Channel / 15MHz+20MHz



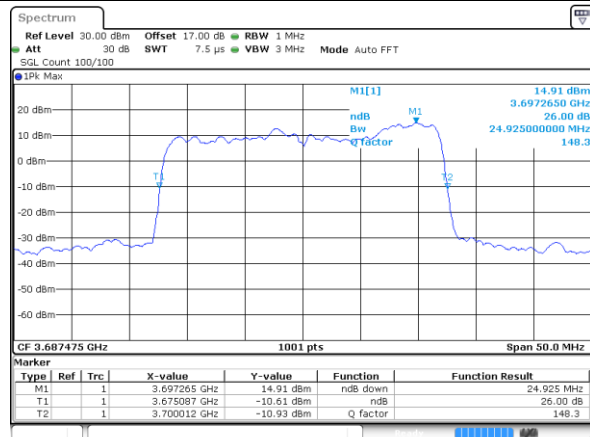
Middle Channel / 20MHz+5MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+5MHz

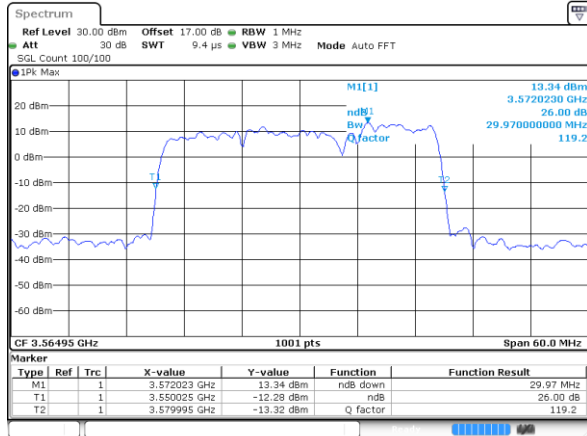




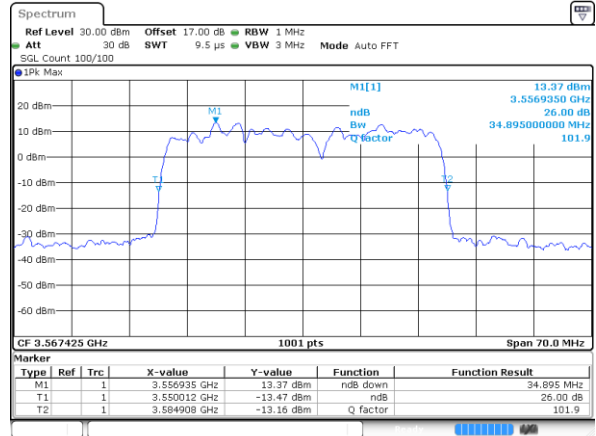
LTE Band 48C

64QAM

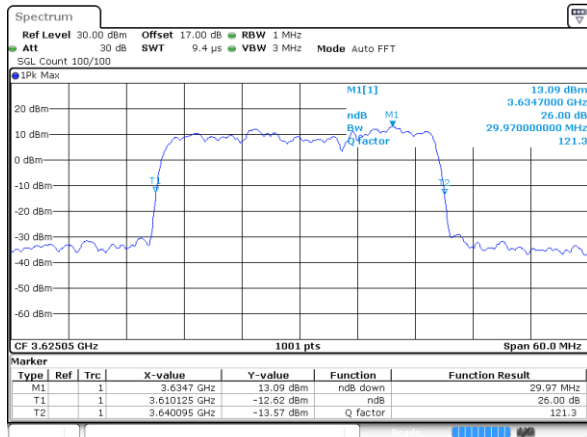
Lowest Channel / 20MHz+10MHz



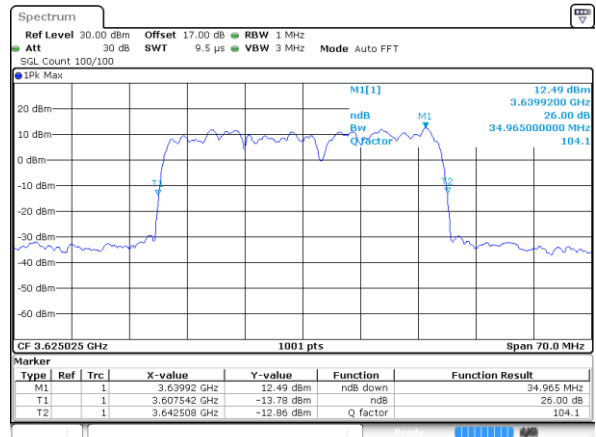
Lowest Channel / 20MHz+15MHz



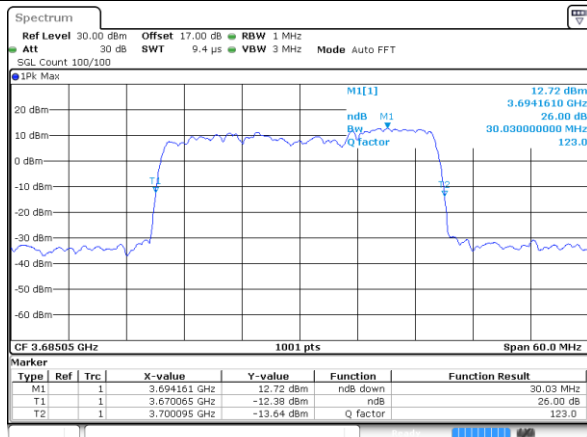
Middle Channel / 20MHz+10MHz



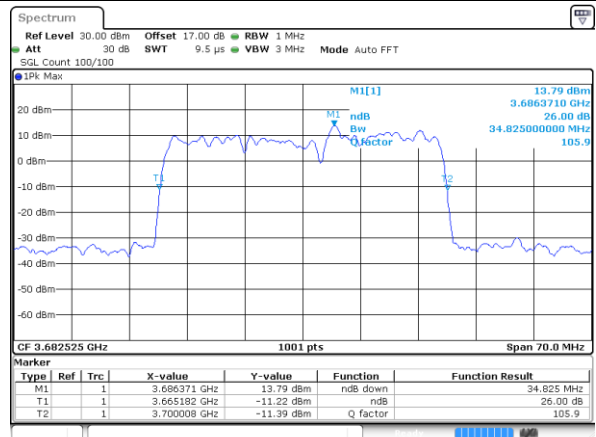
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



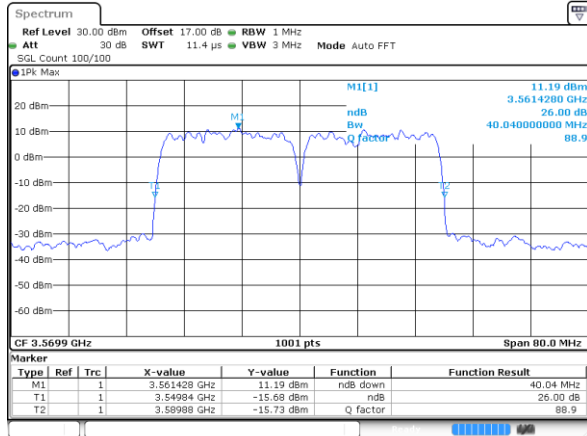


LTE Band 48C

64QAM

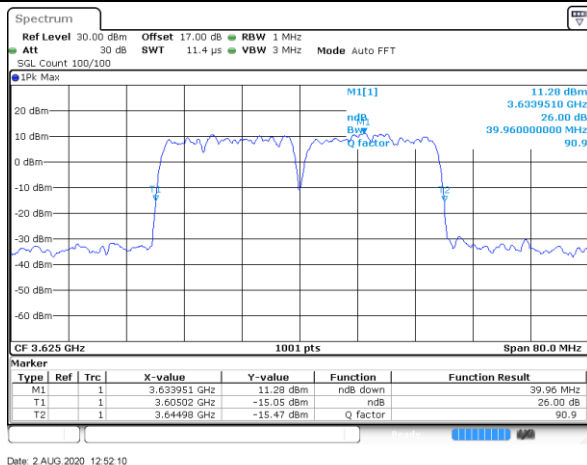
Lowest Channel / 20MHz+20MHz

N/A



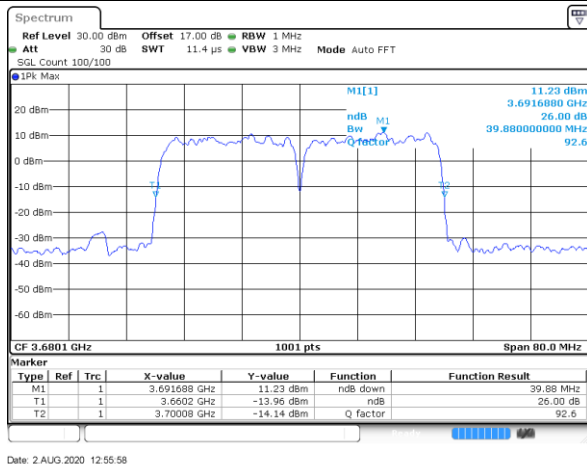
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A



Occupied Bandwidth

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	23.18	27.93	32.73	23.18
Middle CH	23.23	27.87	32.80	23.33
Highest CH	23.23	28.05	32.80	23.23
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.99	32.80	37.72	-
Middle CH	28.11	32.80	37.72	-
Highest CH	27.99	32.87	37.48	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	23.13	28.11	32.87	23.18
Middle CH	23.33	27.93	32.87	23.23
Highest CH	23.23	27.87	32.73	23.28
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	28.05	32.80	37.56	-
Middle CH	28.11	32.80	37.56	-
Highest CH	27.93	32.94	37.80	-

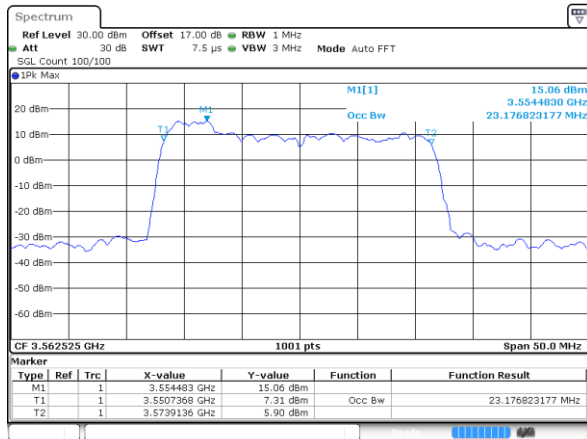
Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	23.28	27.93	32.94	23.28
Middle CH	23.08	28.17	33.01	23.38
Highest CH	23.38	27.87	32.66	23.38
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	28.11	32.80	37.40	-
Middle CH	28.23	32.66	37.56	-
Highest CH	28.11	32.94	37.88	-



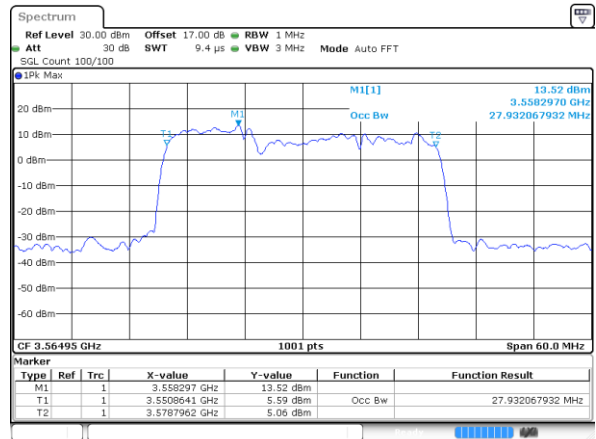
LTE Band 48C

QPSK

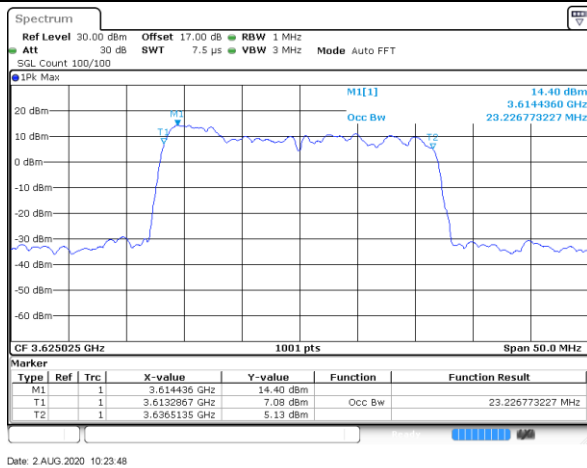
Lowest Channel / 5MHz+20MHz



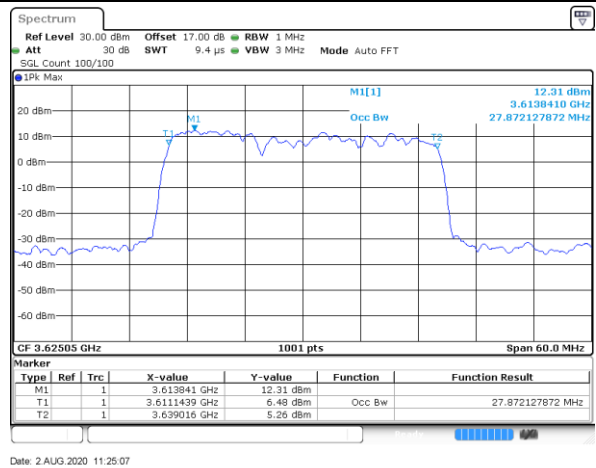
Lowest Channel / 10MHz+20MHz



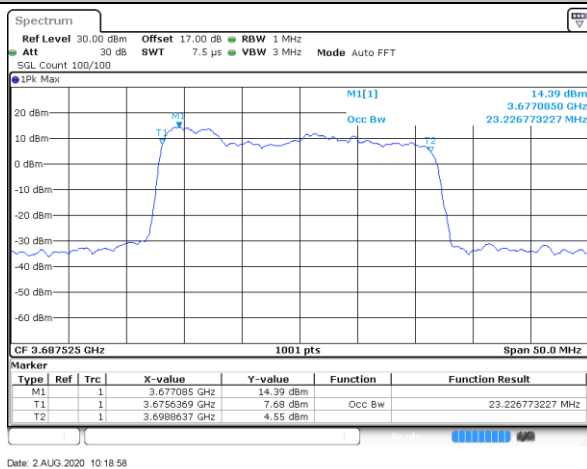
Middle Channel / 5MHz+20MHz



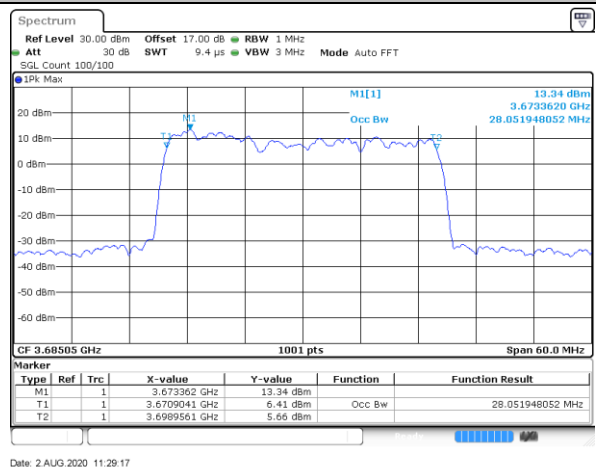
Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+20MHz

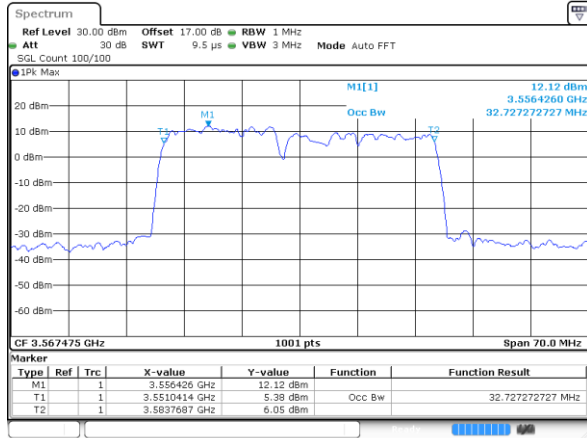




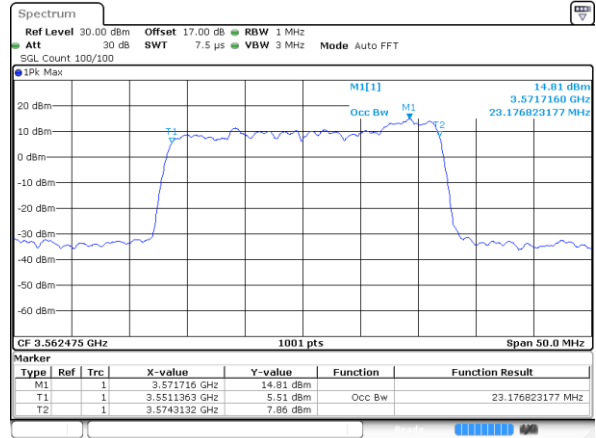
LTE Band 48C

QPSK

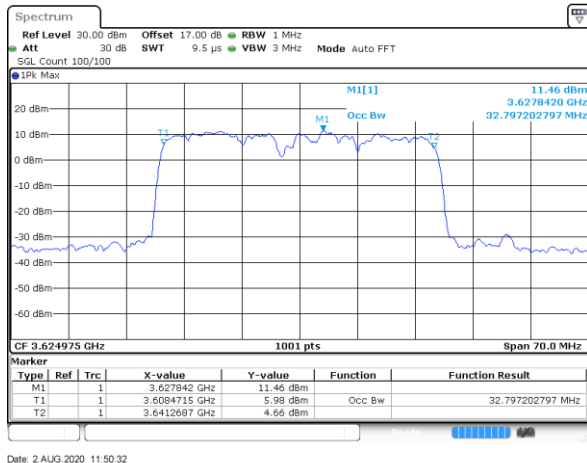
Lowest Channel / 15MHz+20MHz



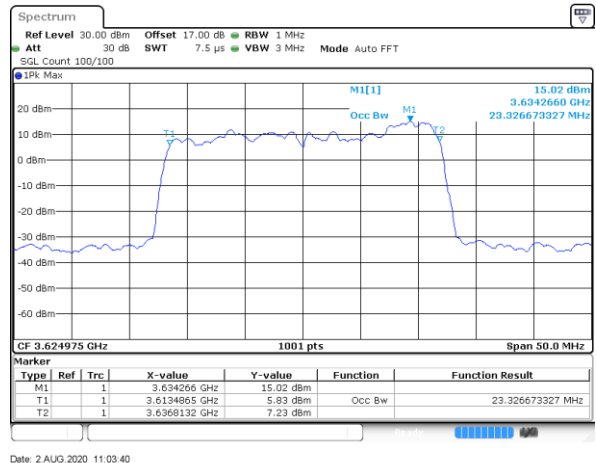
Lowest Channel / 20MHz+5MHz



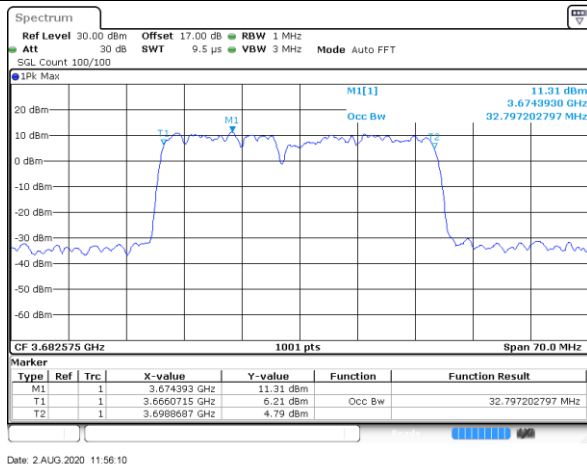
Middle Channel / 15MHz+20MHz



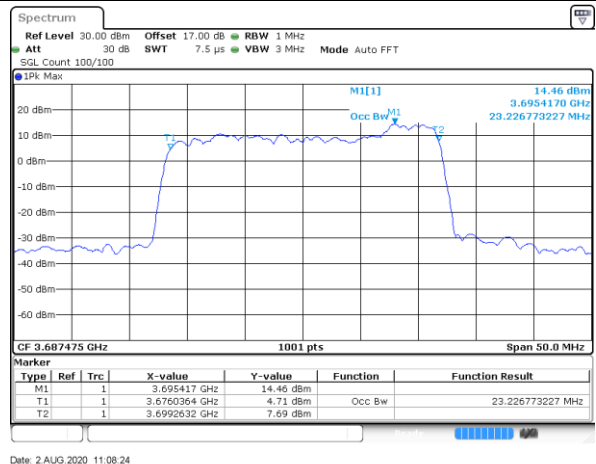
Middle Channel / 20MHz+5MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+5MHz

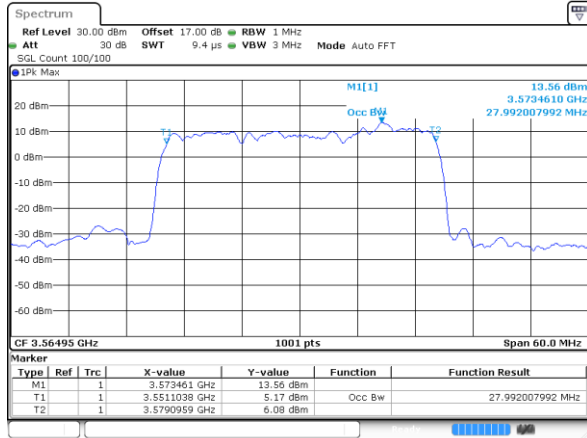




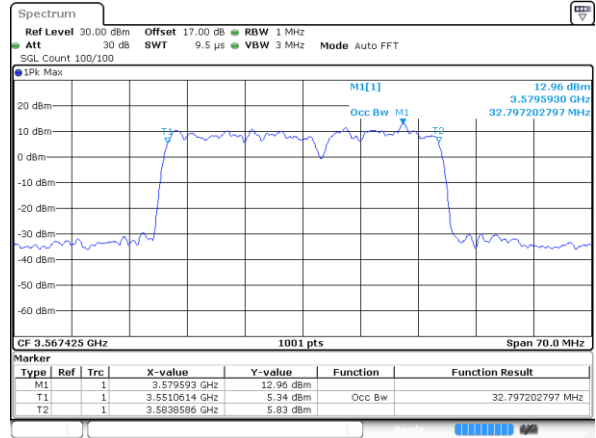
LTE Band 48C

QPSK

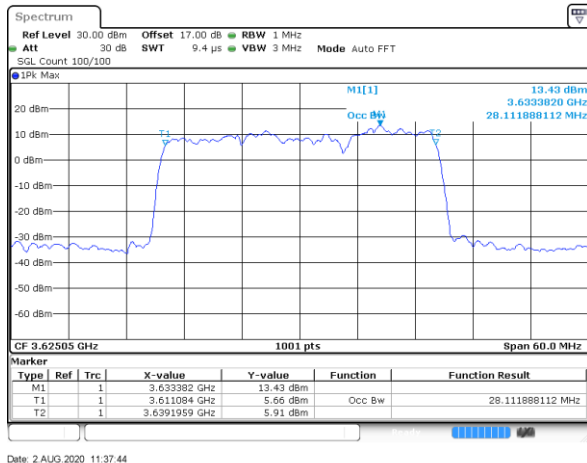
Lowest Channel / 20MHz+10MHz



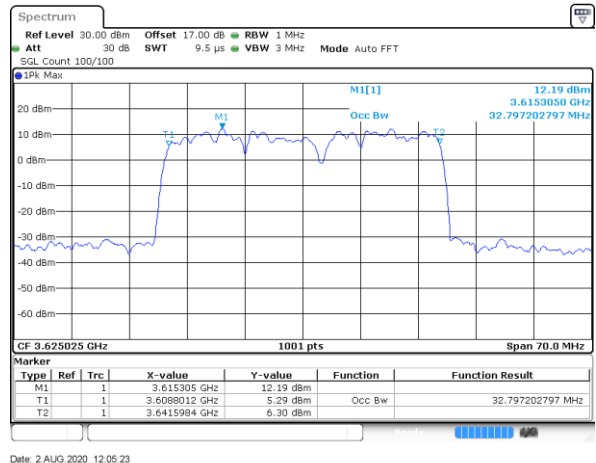
Lowest Channel / 20MHz+15MHz



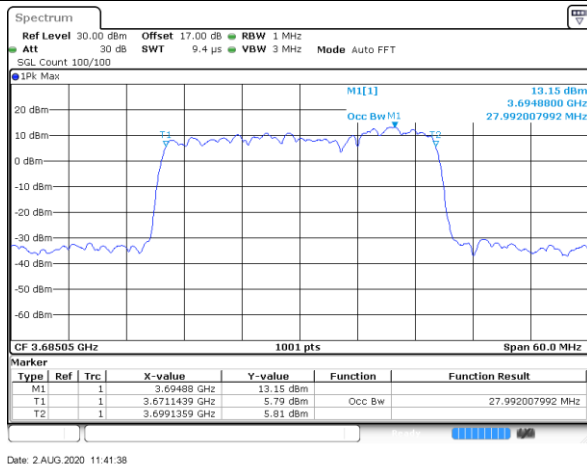
Middle Channel / 20MHz+10MHz



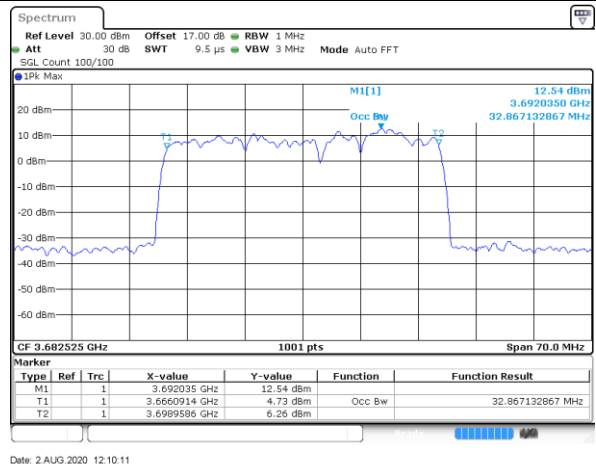
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



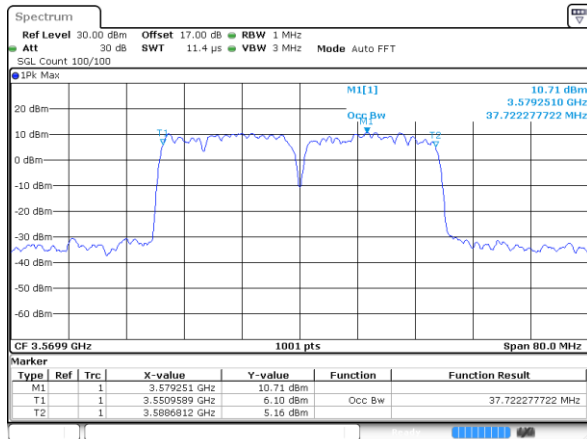


LTE Band 48C

QPSK

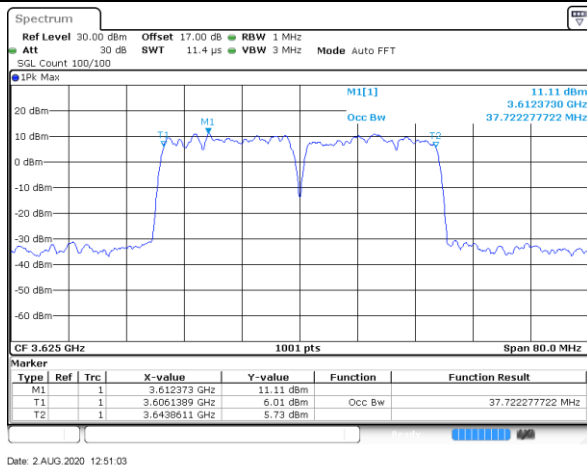
Lowest Channel / 20MHz+20MHz

N/A



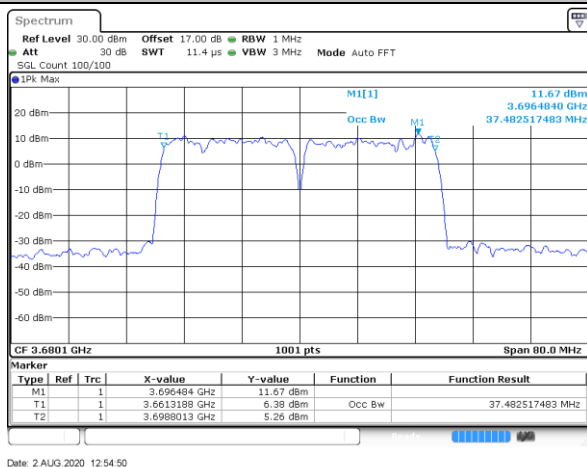
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A

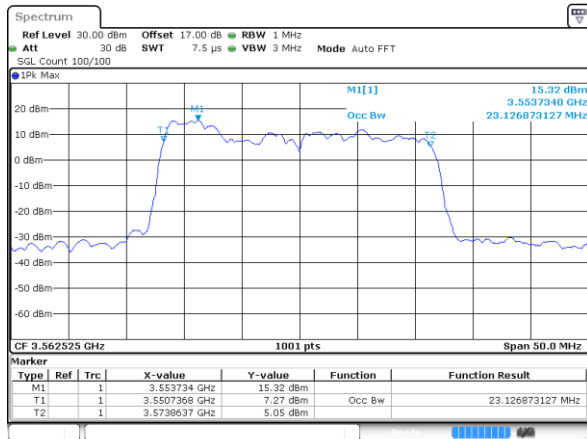




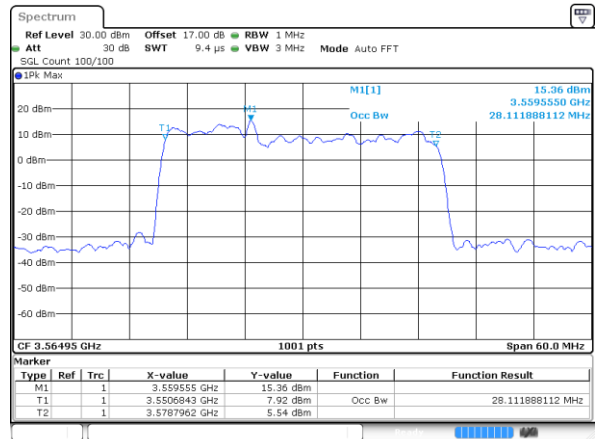
LTE Band 48C

16QAM

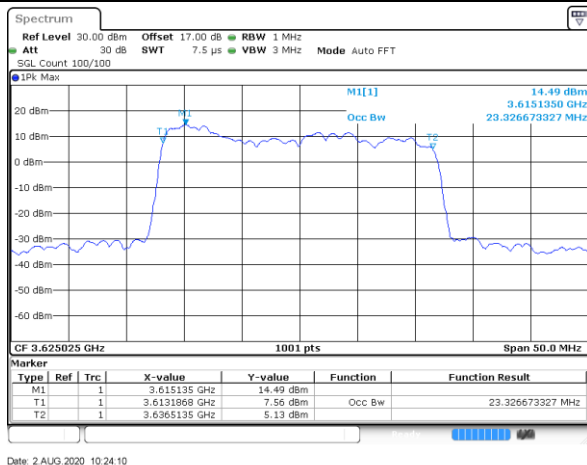
Lowest Channel / 5MHz+20MHz



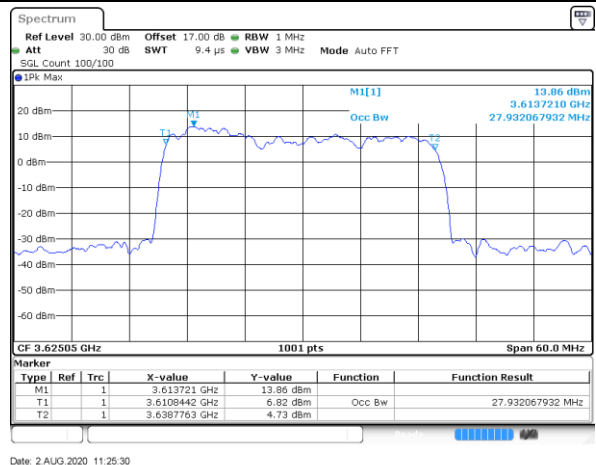
Lowest Channel / 10MHz+20MHz



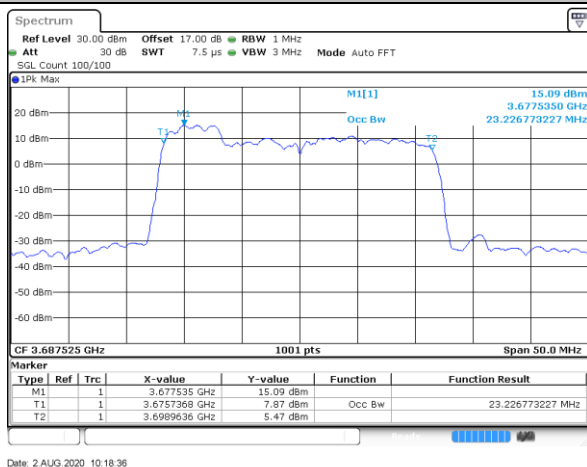
Middle Channel / 5MHz+20MHz



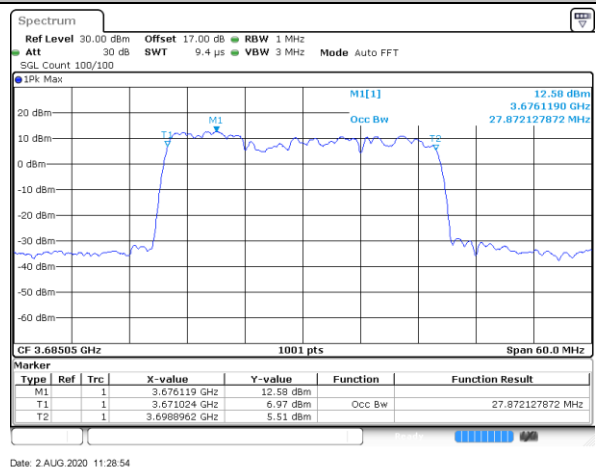
Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+20MHz

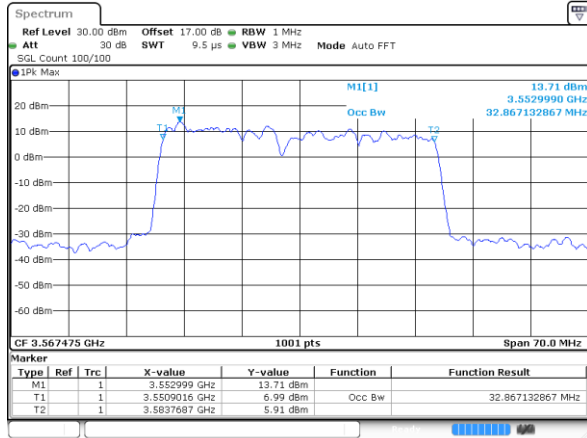




LTE Band 48C

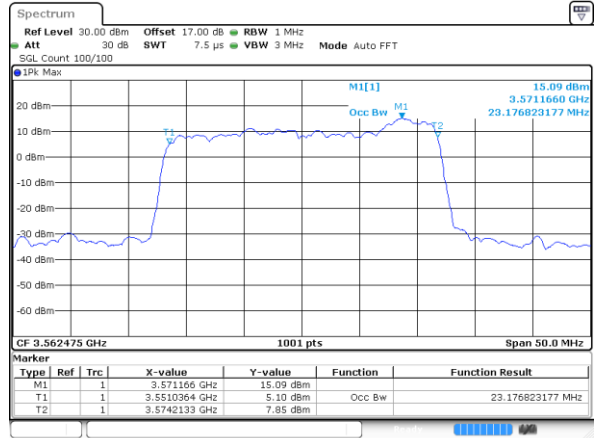
16QAM

Lowest Channel / 15MHz+20MHz



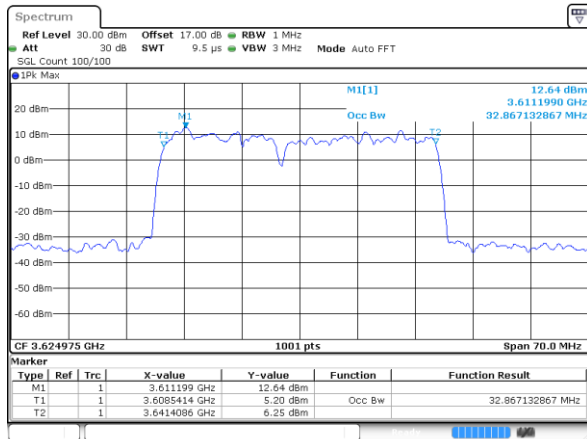
Date: 2 AUG 2020 11:47:24

Lowest Channel / 20MHz+5MHz



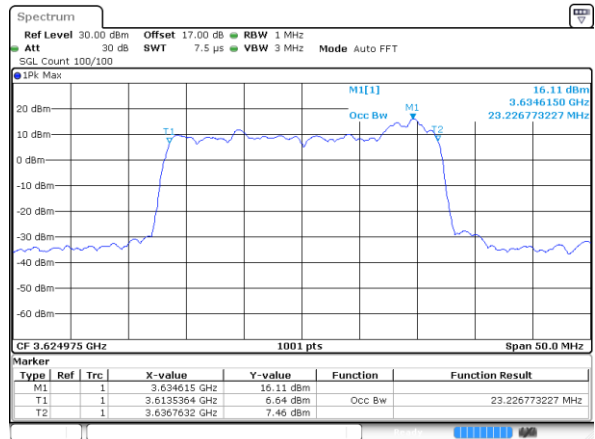
Date: 2 AUG 2020 10:59:22

Middle Channel / 15MHz+20MHz



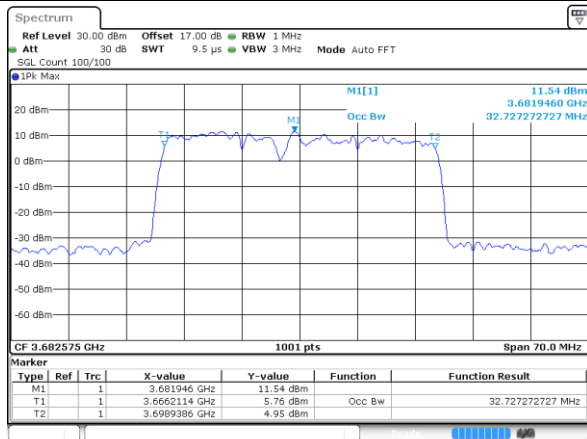
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Middle Channel / 20MHz+5MHz



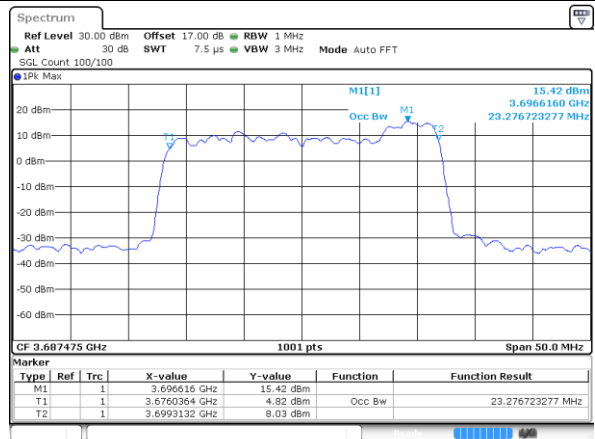
Date: 2 AUG 2020 11:04:03

Highest Channel / 15MHz+20MHz



Date: 2 AUG 2020 11:55:47

Highest Channel / 20MHz+5MHz



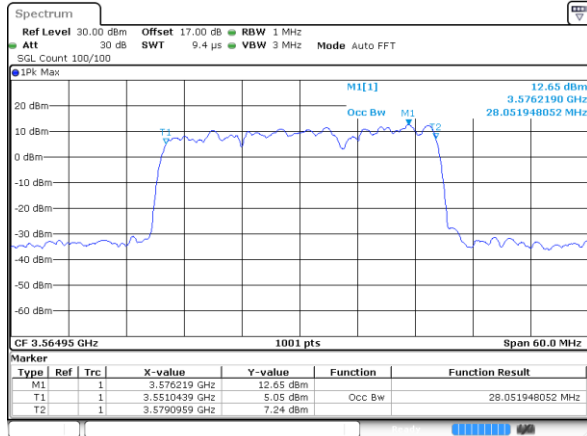
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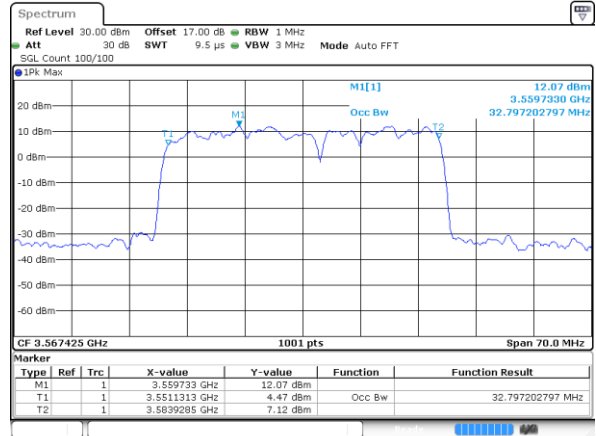
LTE Band 48C

16QAM

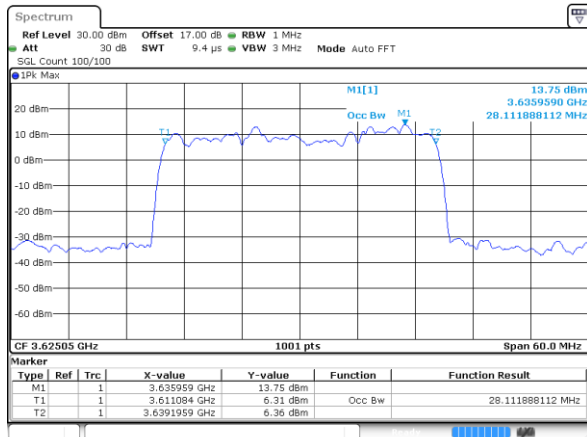
Lowest Channel / 20MHz+10MHz



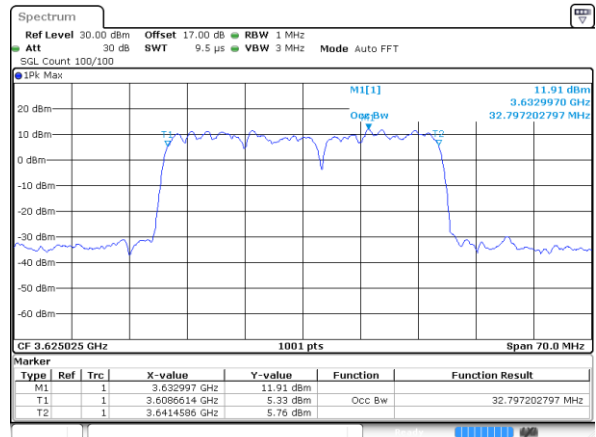
Lowest Channel / 20MHz+15MHz



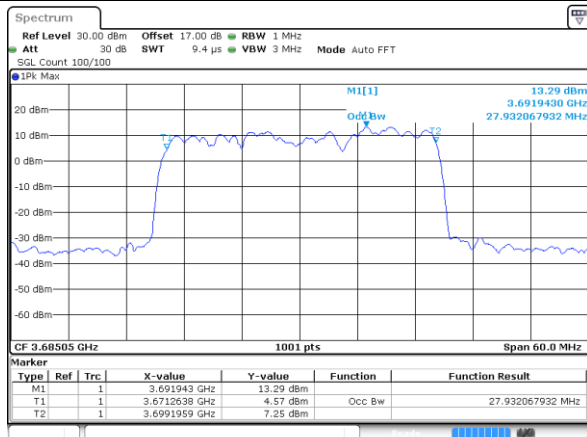
Middle Channel / 20MHz+10MHz



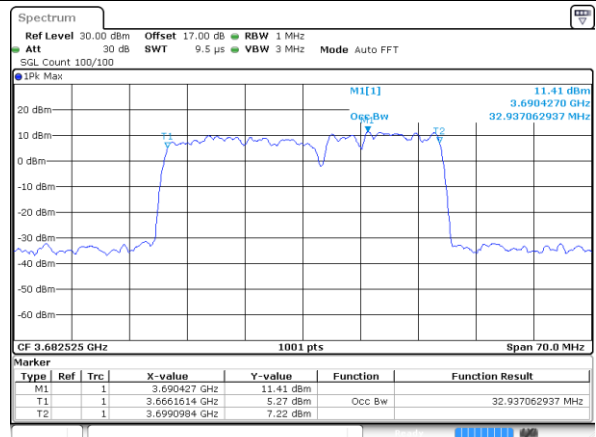
Middle Channel / 20MHz+15MHz

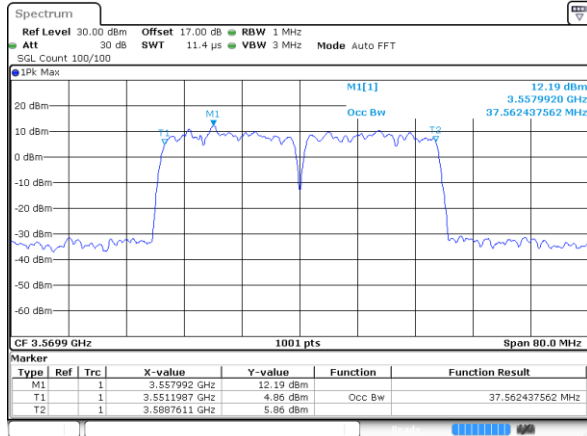
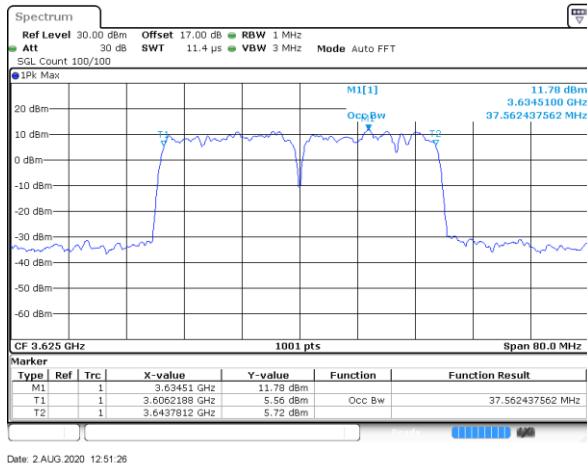
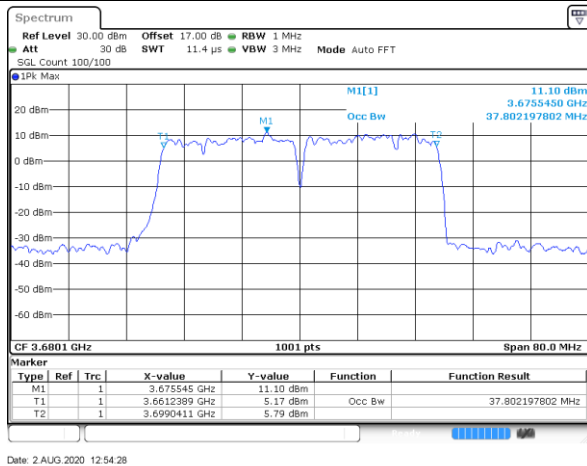


Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



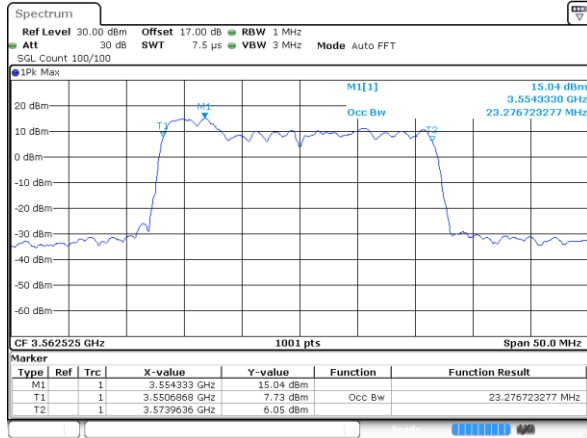
**LTE Band 48C****16QAM****Lowest Channel / 20MHz+20MHz****N/A****Middle Channel / 20MHz+20MHz****N/A****Highest Channel / 20MHz+20MHz****N/A**



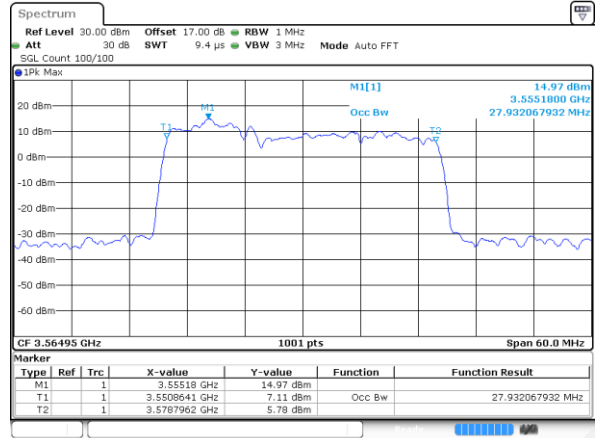
LTE Band 48C

64QAM

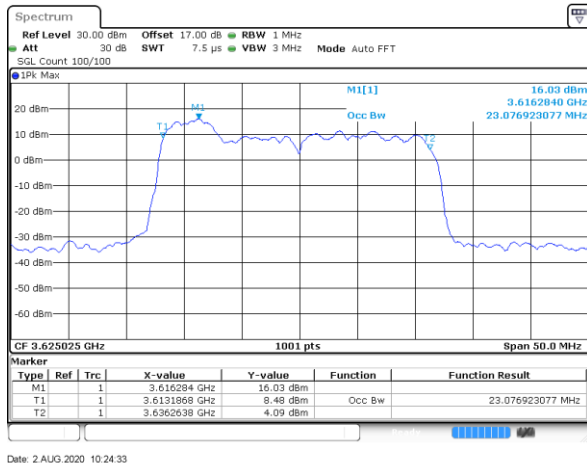
Lowest Channel / 5MHz+20MHz



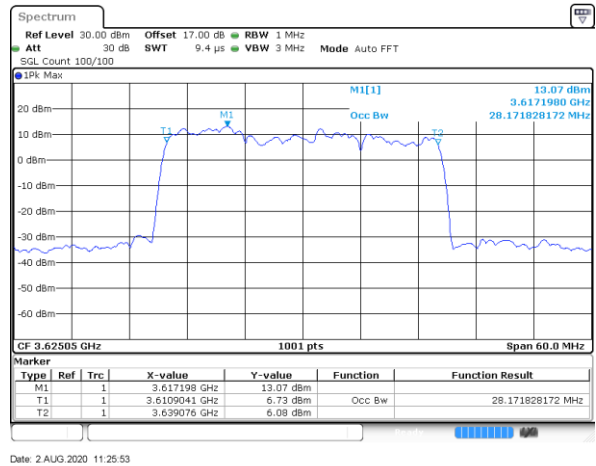
Lowest Channel / 10MHz+20MHz



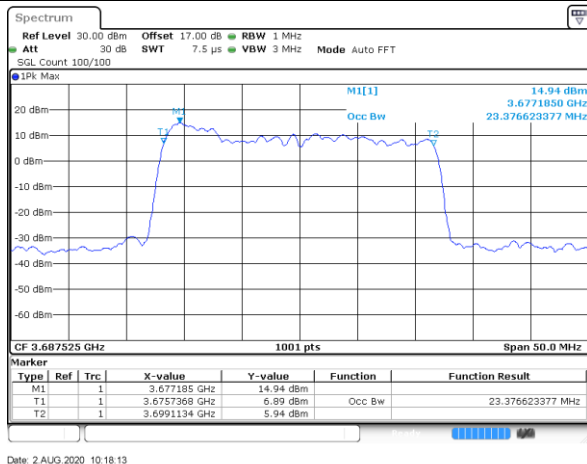
Middle Channel / 5MHz+20MHz



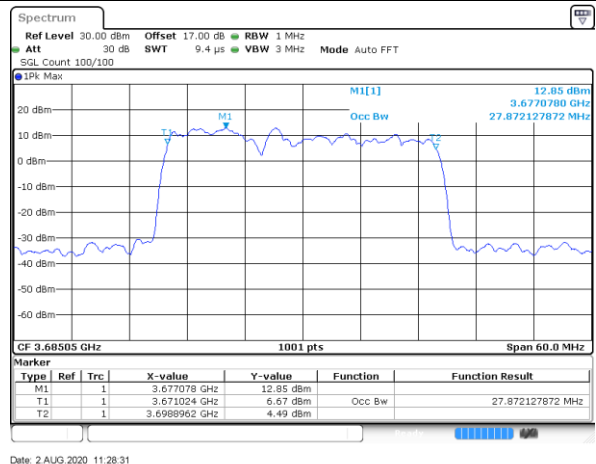
Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+20MHz

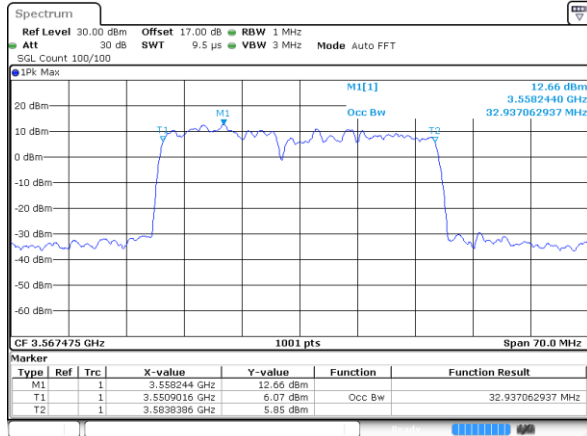




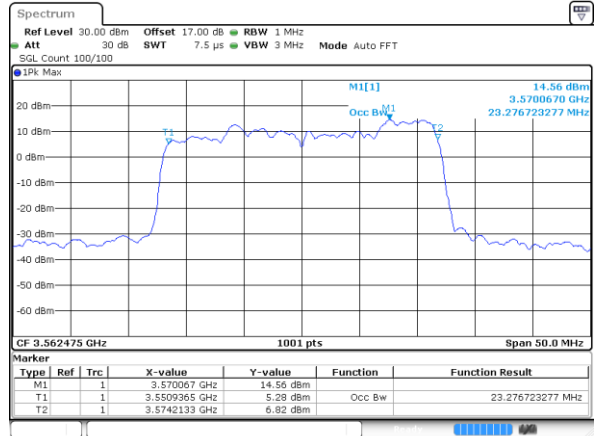
LTE Band 48C

64QAM

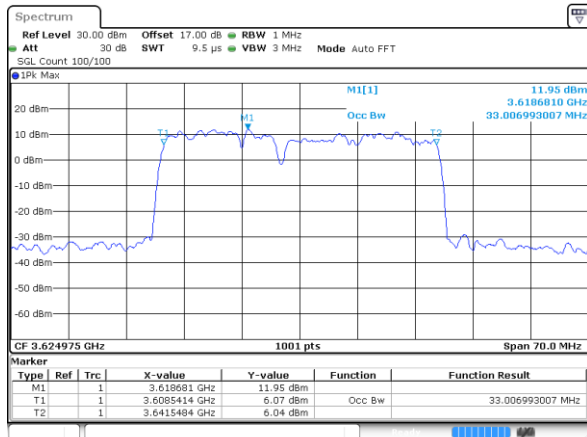
Lowest Channel / 15MHz+20MHz



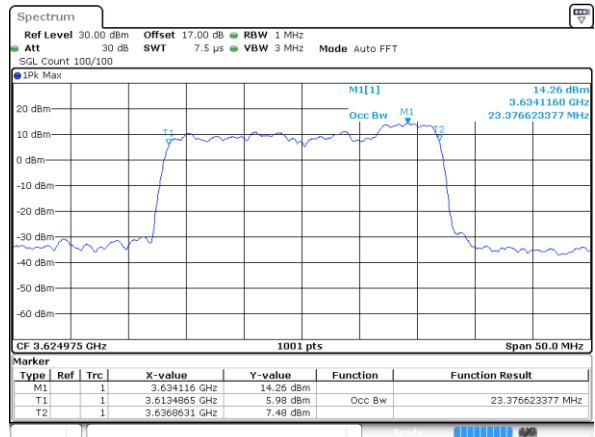
Lowest Channel / 20MHz+5MHz



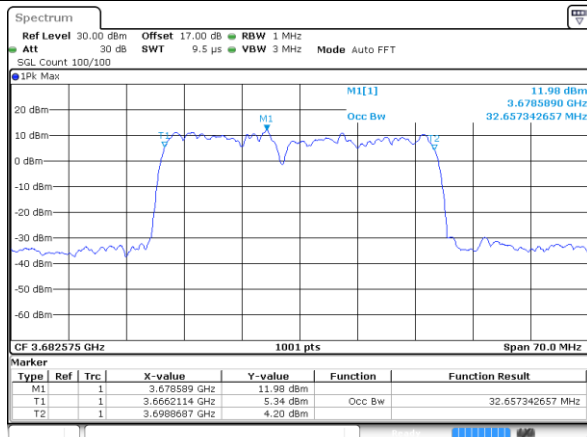
Middle Channel / 15MHz+20MHz



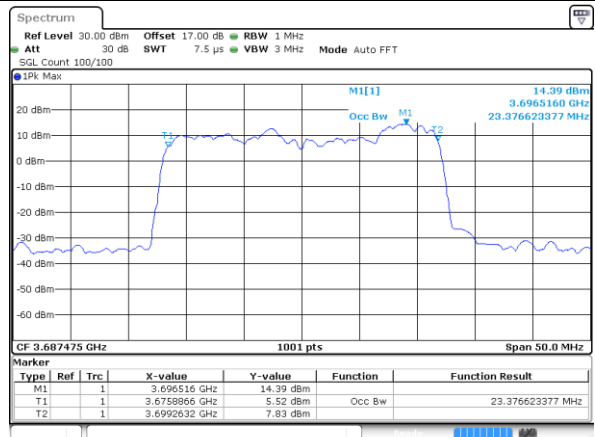
Middle Channel / 20MHz+5MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+5MHz

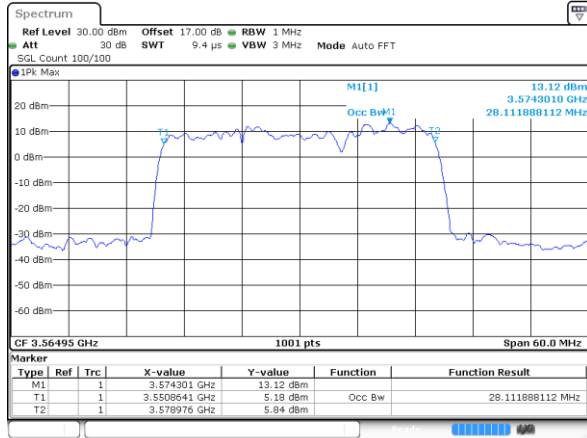




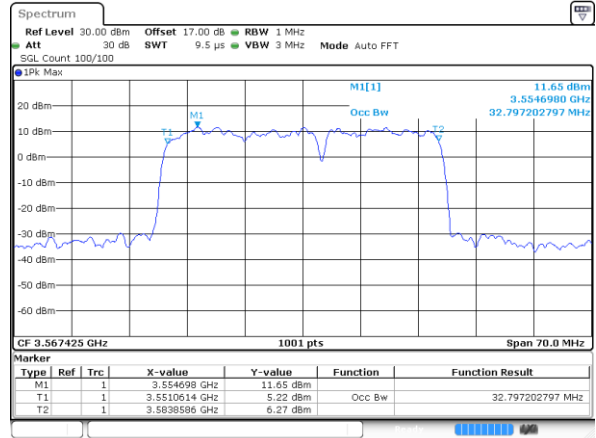
LTE Band 48C

64QAM

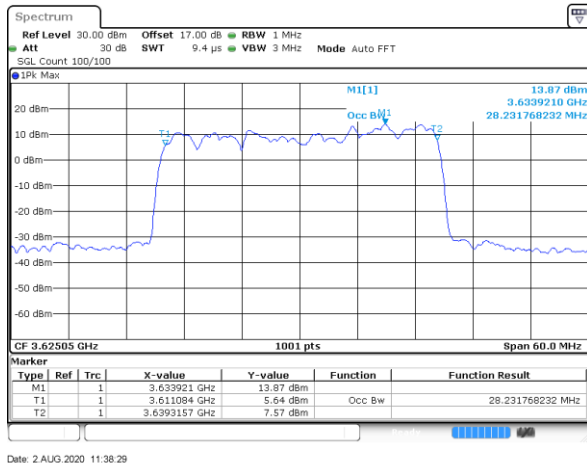
Lowest Channel / 20MHz+10MHz



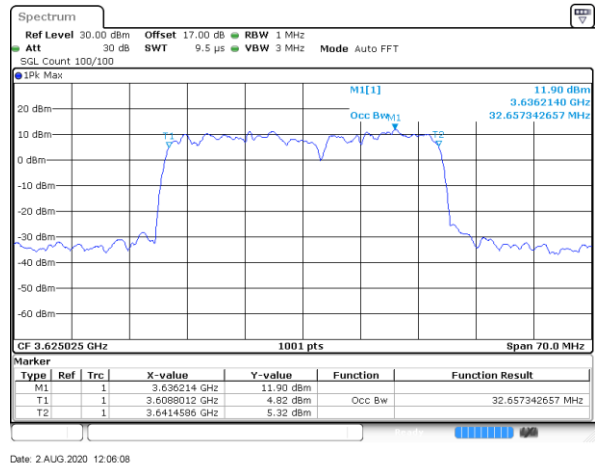
Lowest Channel / 20MHz+15MHz



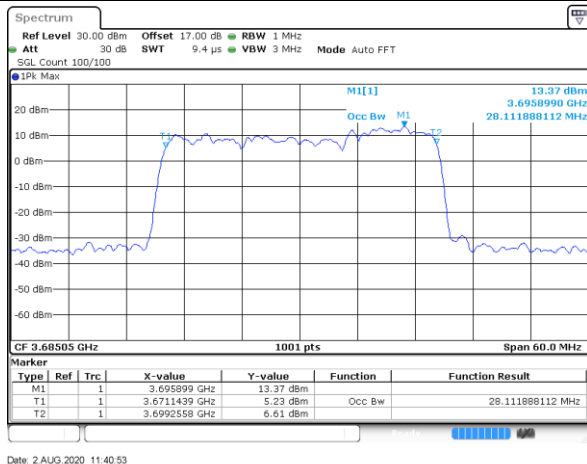
Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz

