

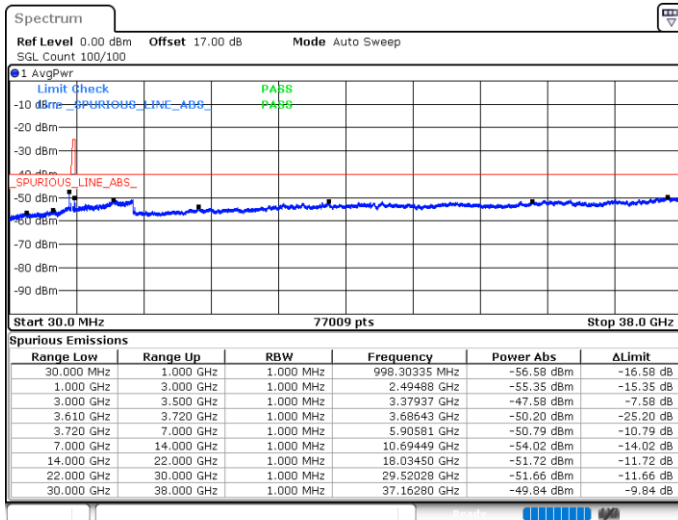


LTE Band 48 / 10MHz

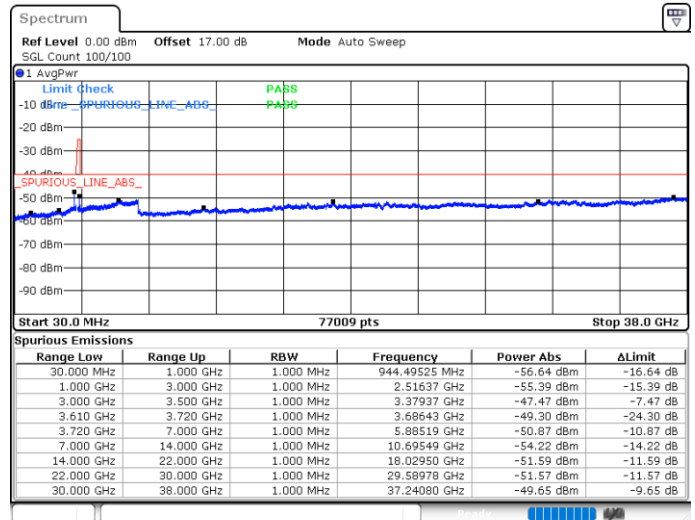
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



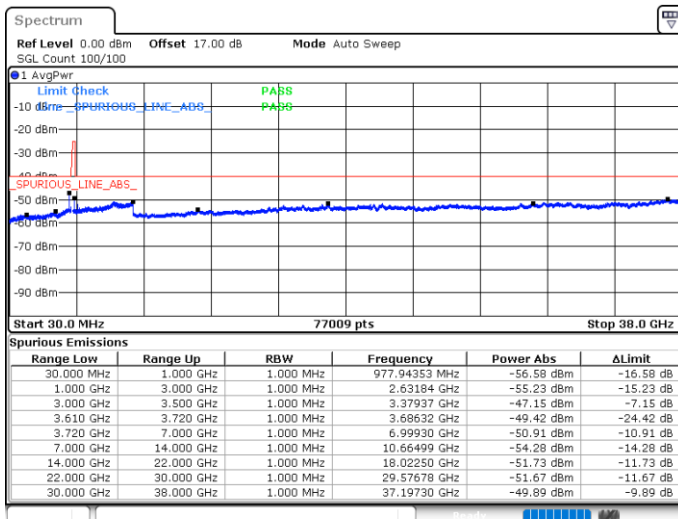
Date: 21.APR.2020 02:32:50



Date: 21.APR.2020 02:52:32

Lowest Channel / FullIRB

N/A



Date: 21.APR.2020 02:42:41

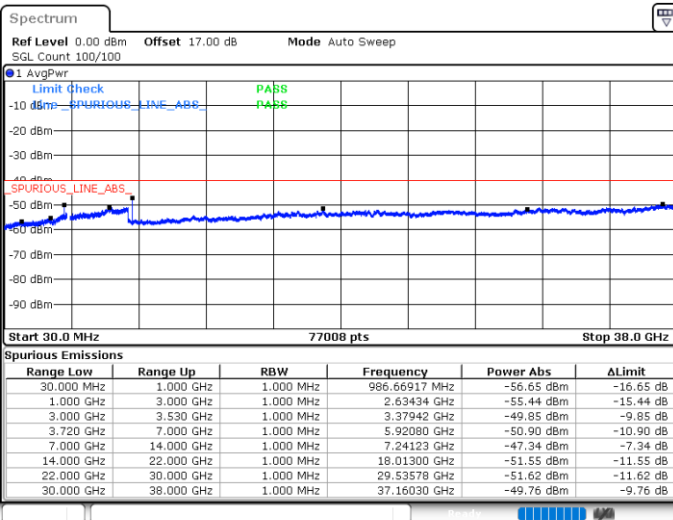


LTE Band 48 / 10MHz

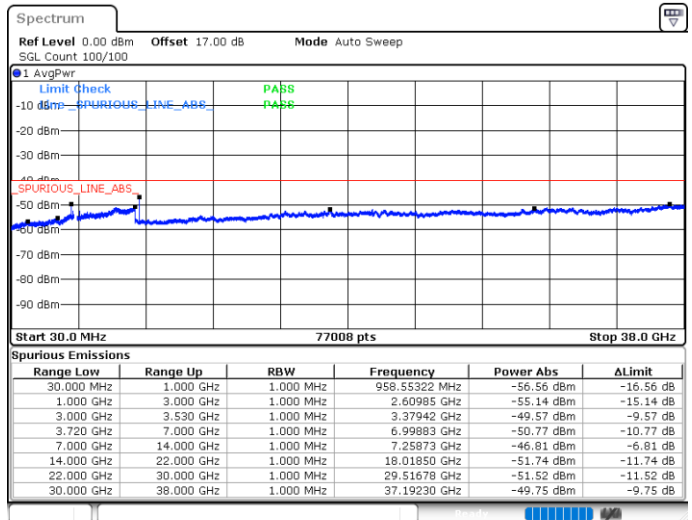
64QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



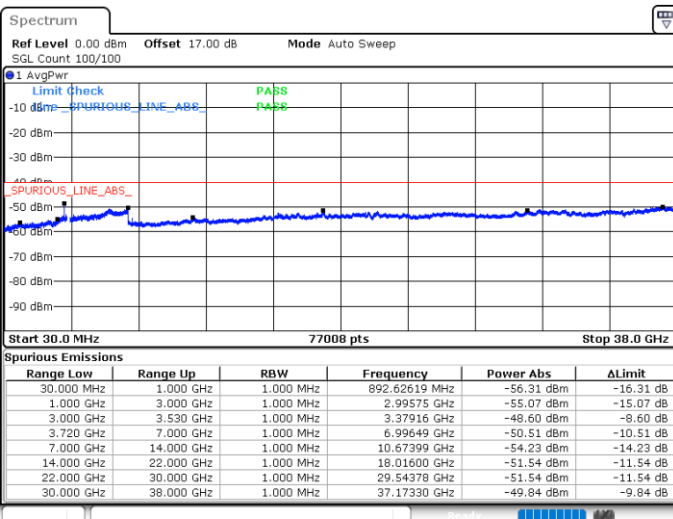
Date: 21.APR.2020 02:38:18



Date: 21.APR.2020 02:58:01

Middle Channel / FullIRB

N/A



Date: 21.APR.2020 02:48:09

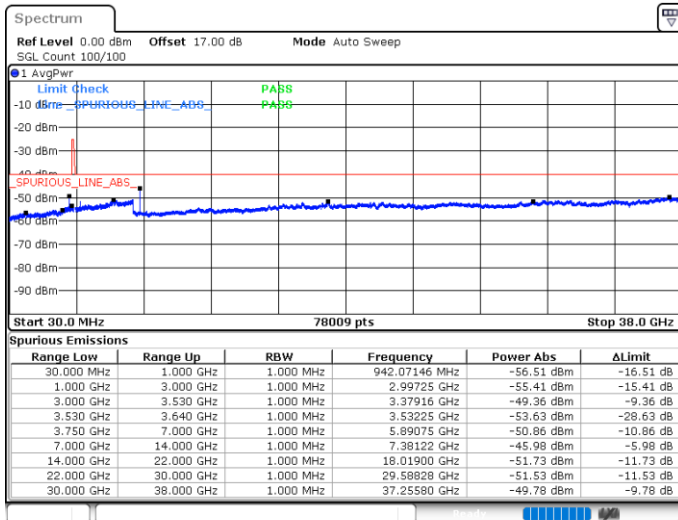


LTE Band 48 / 10MHz

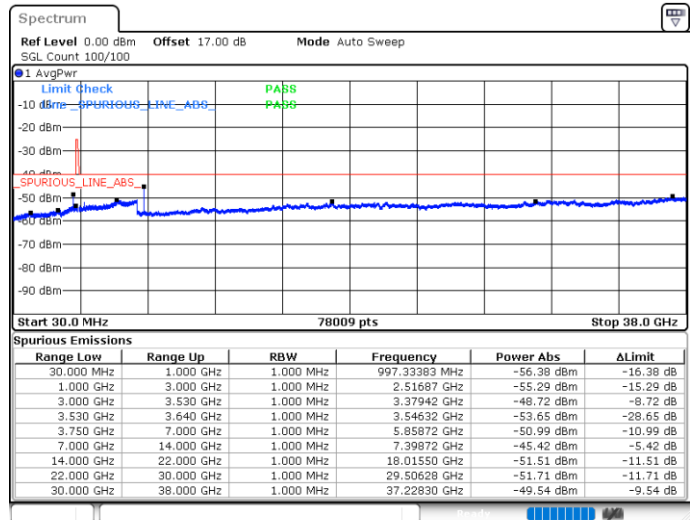
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



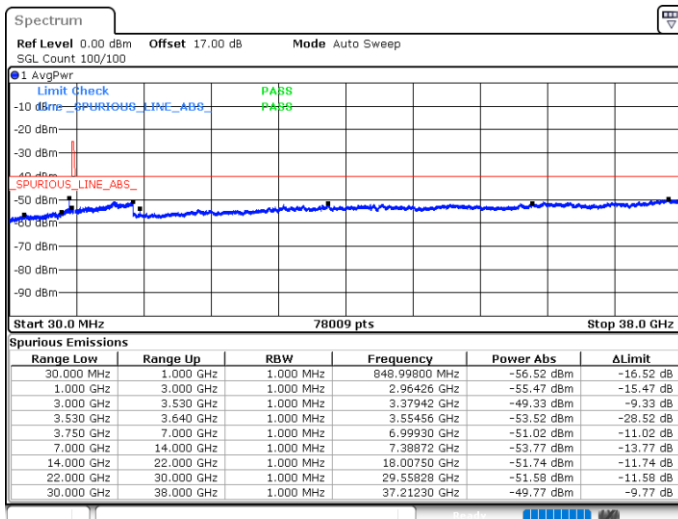
Date: 21.APR.2020 02:39:23



Date: 21.APR.2020 02:59:06

Highest Channel / FullIRB

N/A



Date: 21.APR.2020 02:49:15

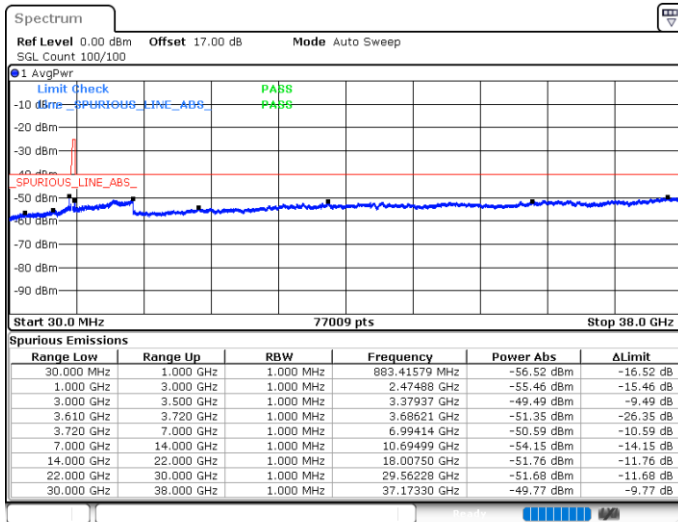


LTE Band 48 / 15MHz

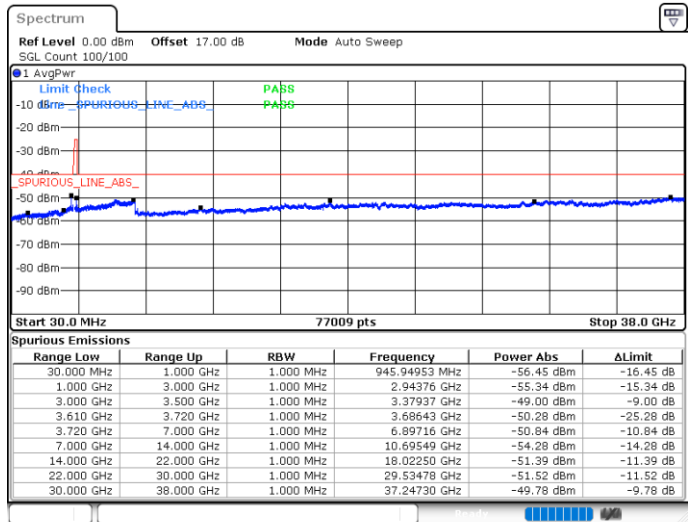
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



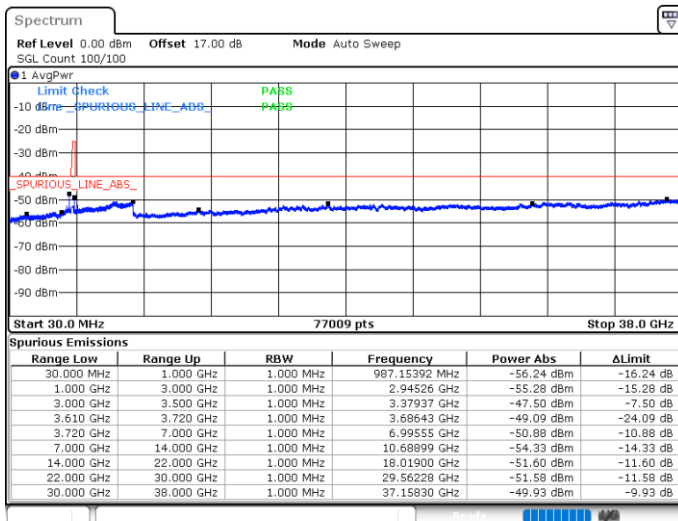
Date: 21.APR.2020 03:04:36



Date: 21.APR.2020 03:24:18

Lowest Channel / FullIRB

N/A



Date: 21.APR.2020 03:14:27

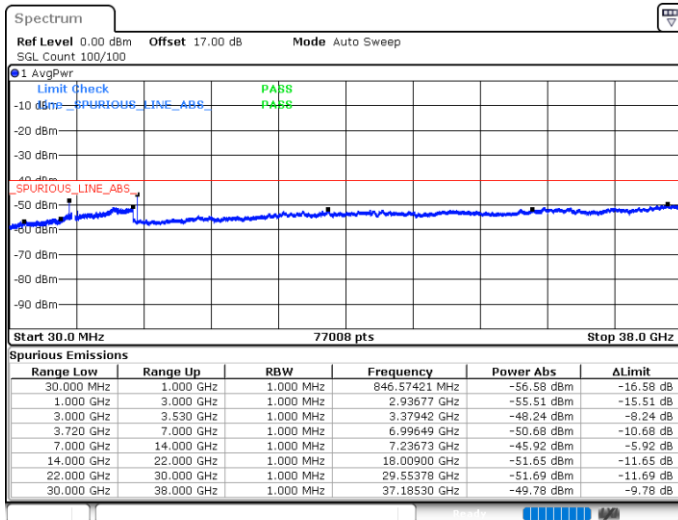


LTE Band 48 / 15MHz

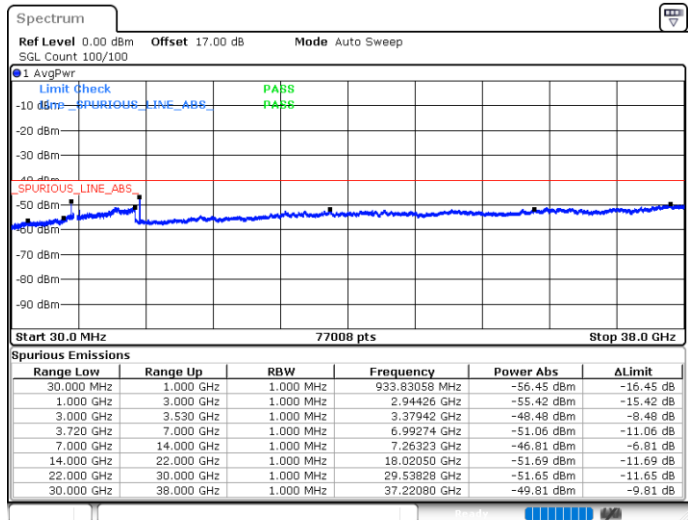
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



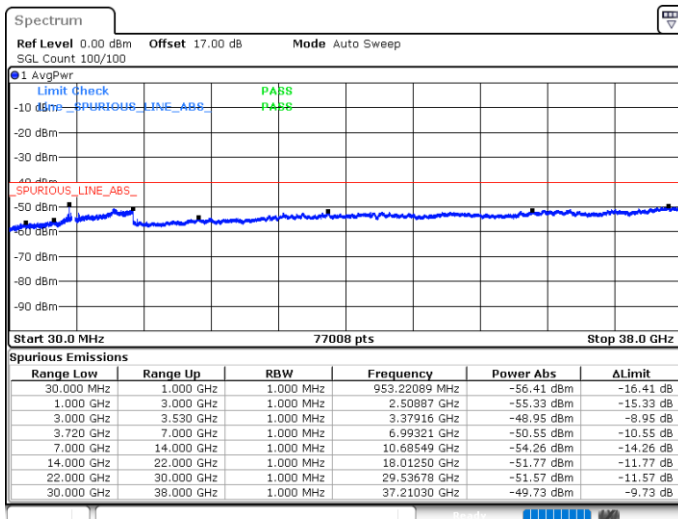
Date: 21.APR.2020 03:05:42



Date: 21.APR.2020 03:25:24

Middle Channel / FullIRB

N/A



Date: 21.APR.2020 03:15:33

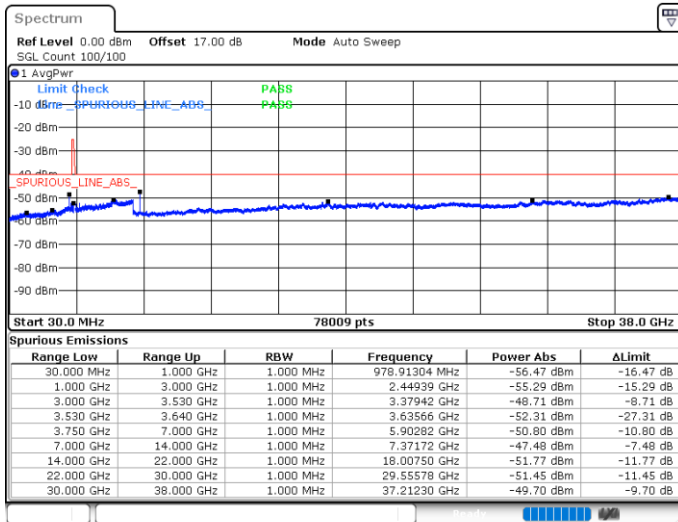


LTE Band 48 / 15MHz

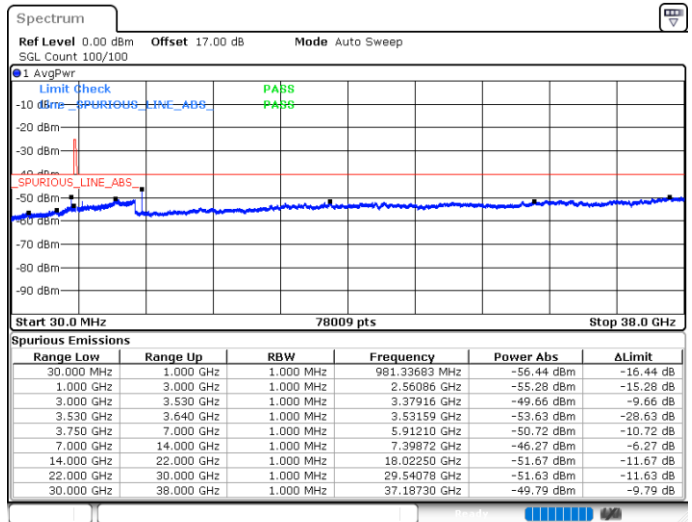
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



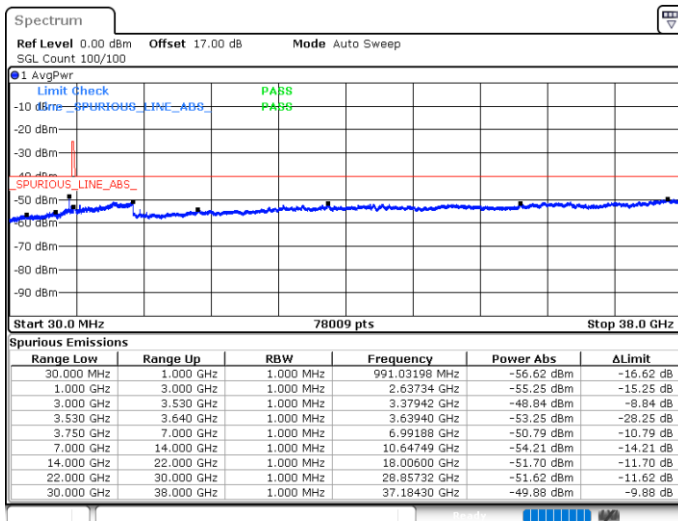
Date: 21.APR.2020 03:11:10



Date: 21.APR.2020 03:30:51

Highest Channel / FullIRB

N/A



Date: 21.APR.2020 03:21:00

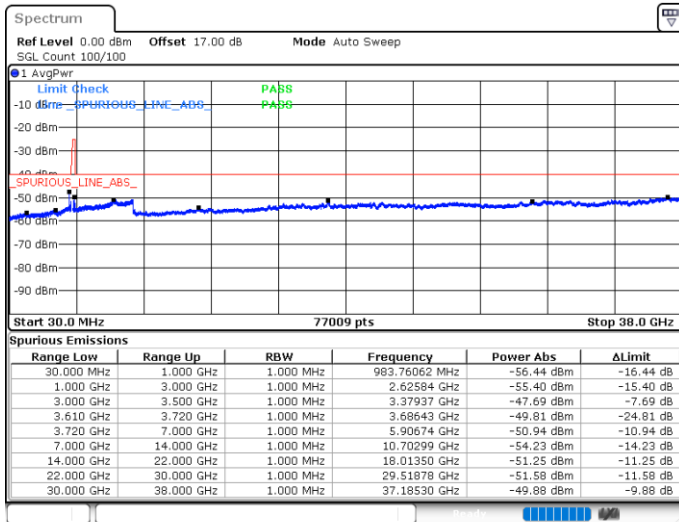


LTE Band 48 / 20MHz

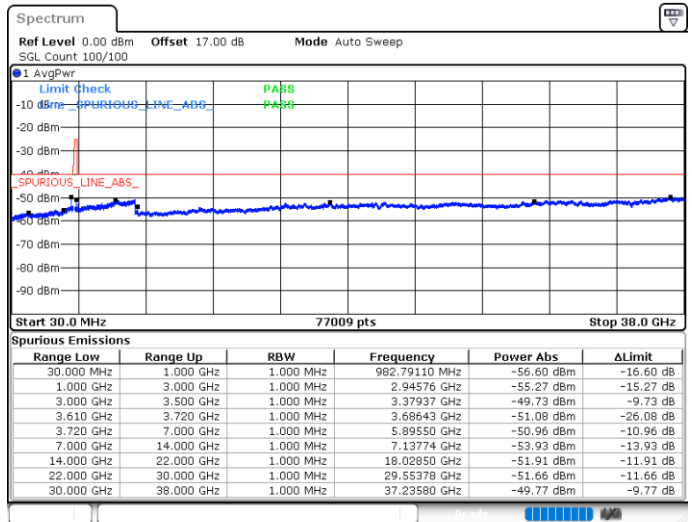
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



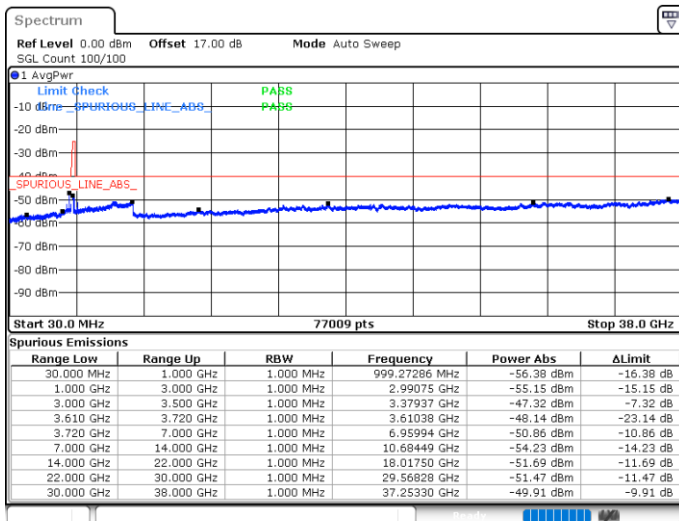
Date: 21.APR.2020 03:41:49



Date: 21.APR.2020 03:51:41

Lowest Channel / FullIRB

N/A



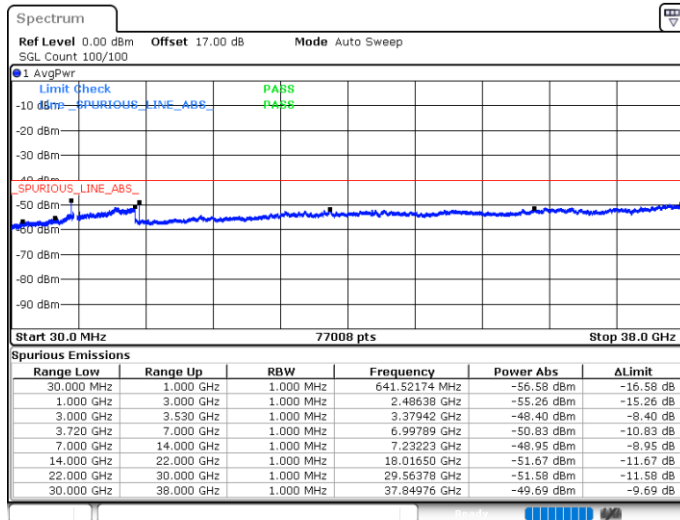
Date: 21.APR.2020 03:31:57



LTE Band 48 / 20MHz

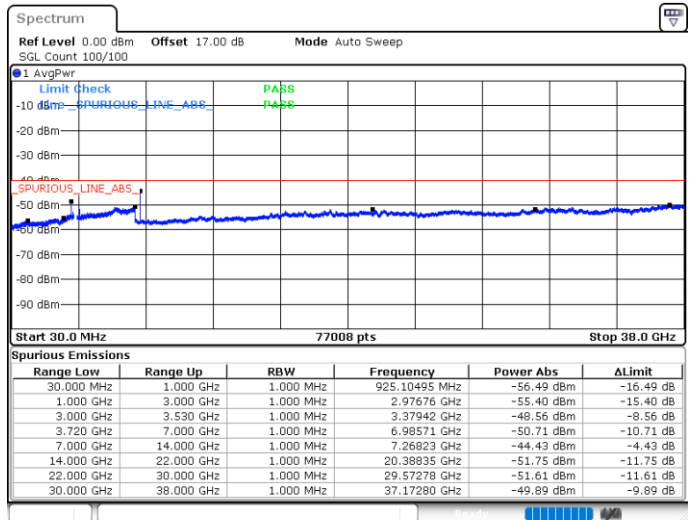
64QAM

Middle Channel / 1RB0



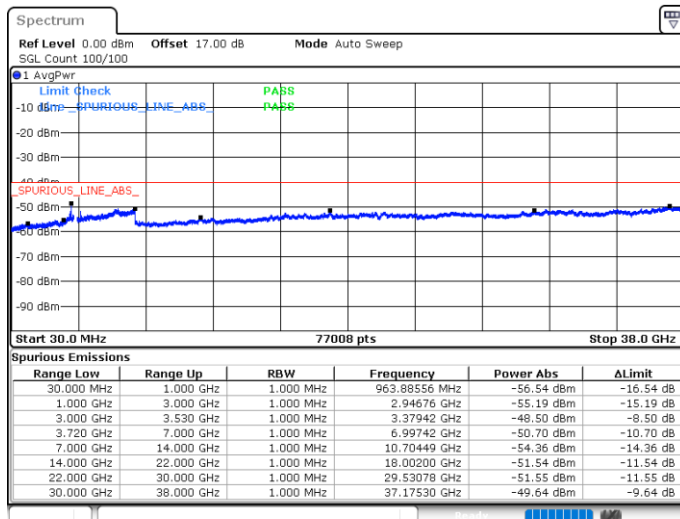
Date: 21.APR.2020 03:47:17

Middle Channel / 1RBmax



Date: 21.APR.2020 03:57:09

Middle Channel / FullIRB



Date: 21.APR.2020 03:37:26

N/A

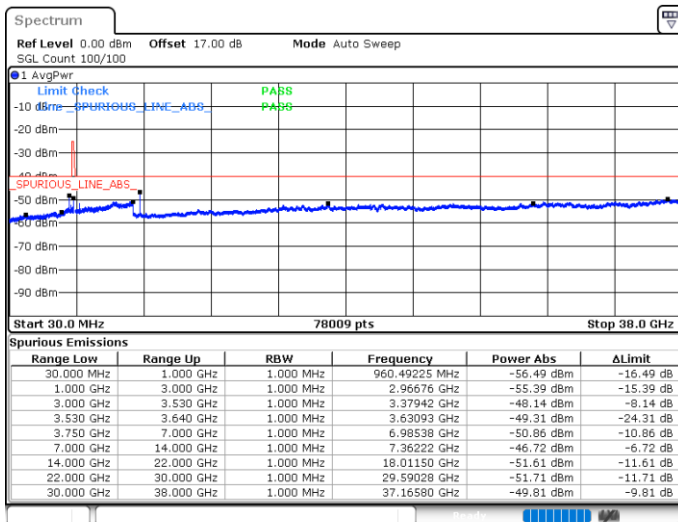


LTE Band 48 / 20MHz

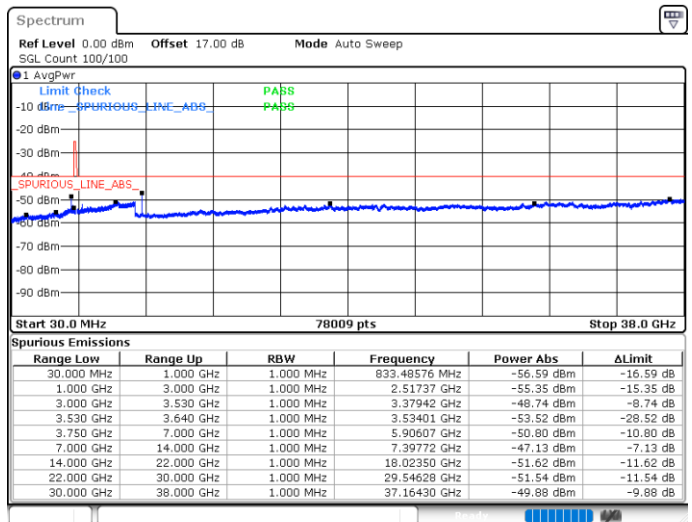
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



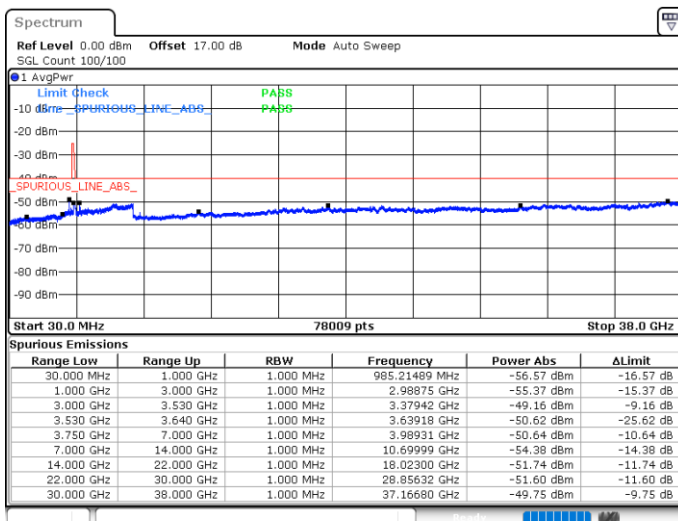
Date: 21.APR.2020 03:48:23



Date: 21.APR.2020 03:58:15

Highest Channel / FullIRB

N/A



Date: 21.APR.2020 03:38:31

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	0.0033	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0034	
-10	Normal Voltage	0.0034	
-20	Normal Voltage	0.0039	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.1 V. ; Maximum Voltage =3.6 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
Lowest CH	24.73	29.91	34.83	24.88
Middle CH	24.78	29.85	34.83	24.98
Highest CH	24.68	29.85	34.83	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.03	35.04	39.88	-
Middle CH	29.85	34.97	39.88	-
Highest CH	30.09	35.04	39.88	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	24.63	29.79	34.76	24.88
Middle CH	24.73	29.79	34.62	24.83
Highest CH	24.68	29.79	34.90	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	29.91	35.04	40.12	-
Middle CH	29.97	34.90	39.96	-
Highest CH	29.97	35.04	39.96	-

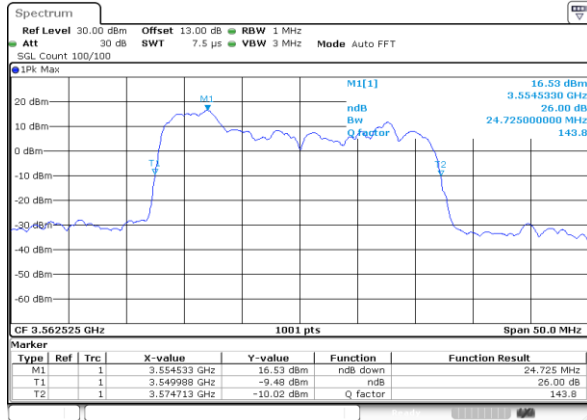
Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	24.73	30.03	34.97	24.78
Middle CH	24.58	29.85	34.62	24.58
Highest CH	24.68	29.85	34.76	24.78
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.09	35.11	39.96	-
Middle CH	30.09	34.97	39.80	-
Highest CH	29.97	35.04	39.72	-



LTE Band 48C

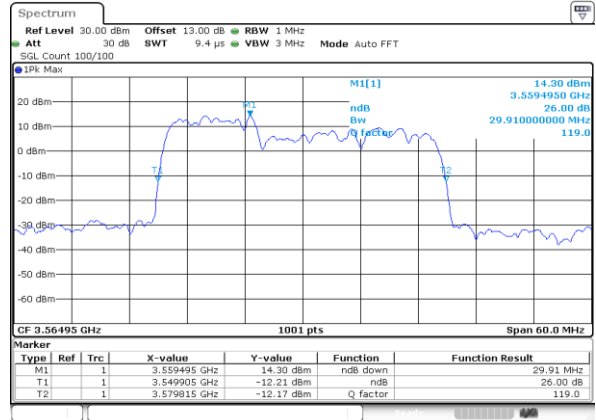
QPSK

Lowest Channel / 5MHz+20MHz



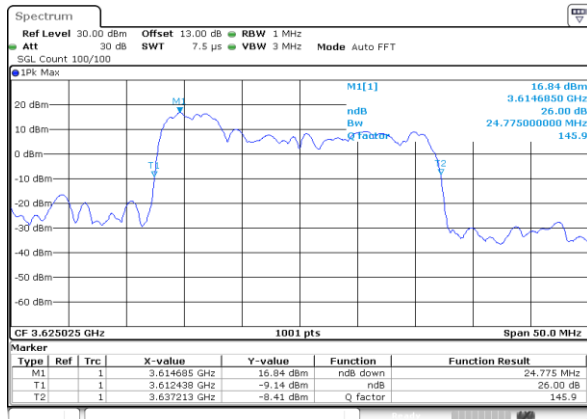
Date: 6.JUL.2020 11:02:04

Lowest Channel / 10MHz+20MHz



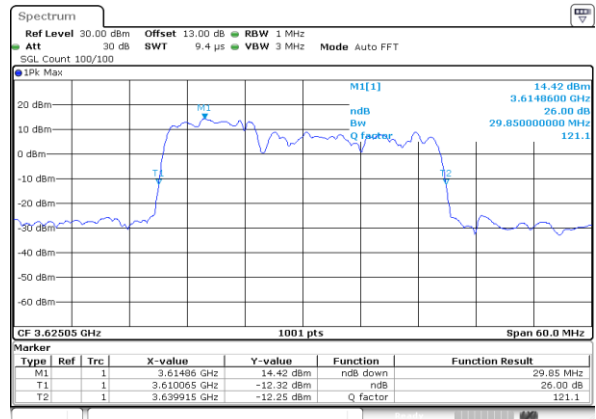
Date: 6.JUL.2020 11:27:03

Middle Channel / 5MHz+20MHz



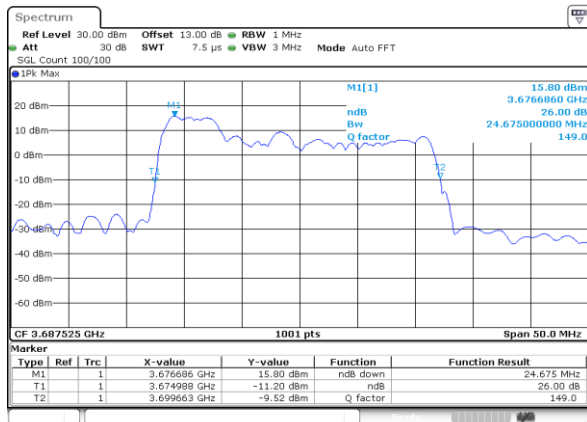
Date: 6.JUL.2020 10:57:48

Middle Channel / 10MHz+20MHz



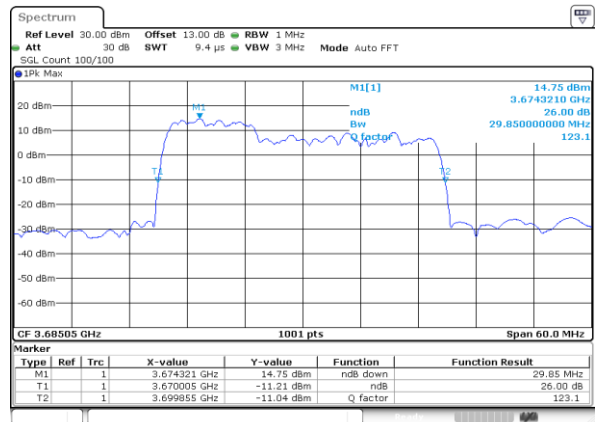
Date: 6.JUL.2020 11:30:20

Highest Channel / 5MHz+20MHz



Date: 6.JUL.2020 11:04:23

Highest Channel / 10MHz+20MHz



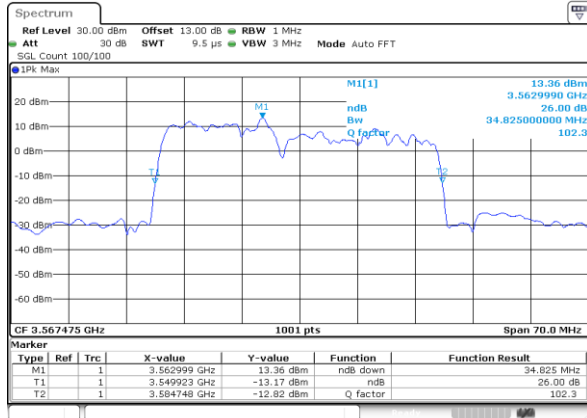
Date: 6.JUL.2020 11:22:41



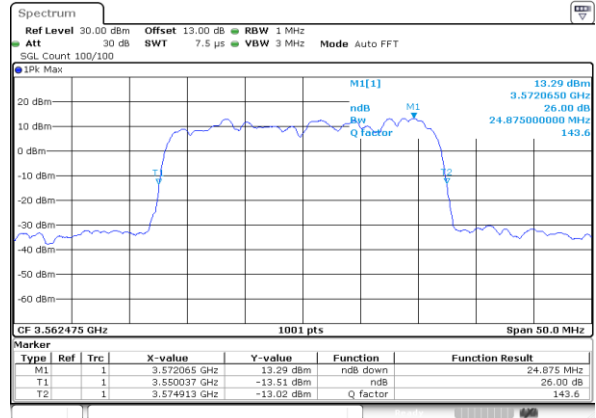
LTE Band 48C

QPSK

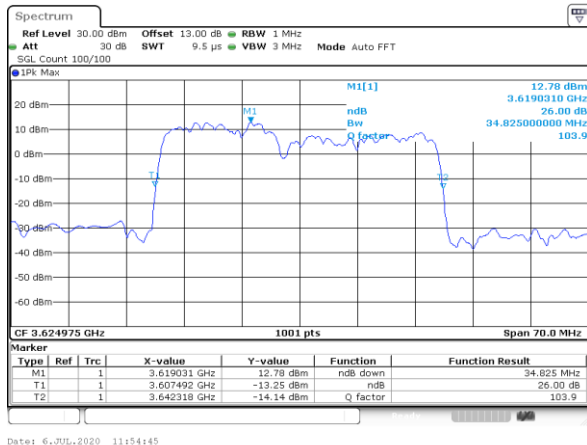
Lowest Channel / 15MHz+20MHz



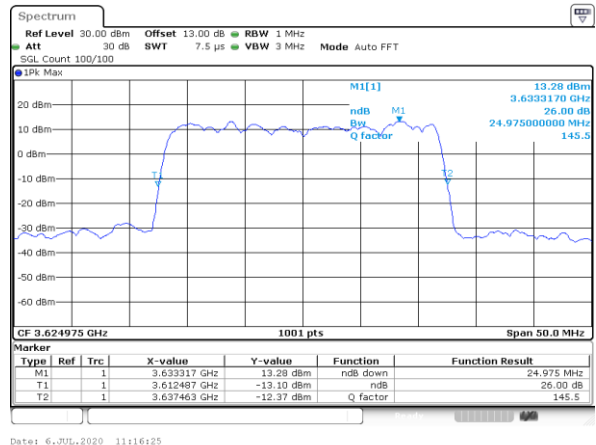
Lowest Channel / 20MHz+5MHz



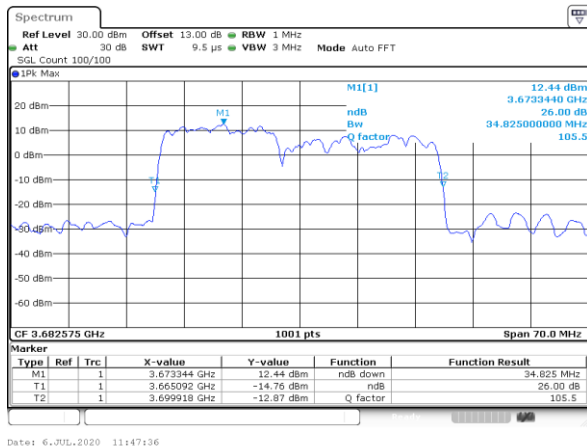
Middle Channel / 15MHz+20MHz



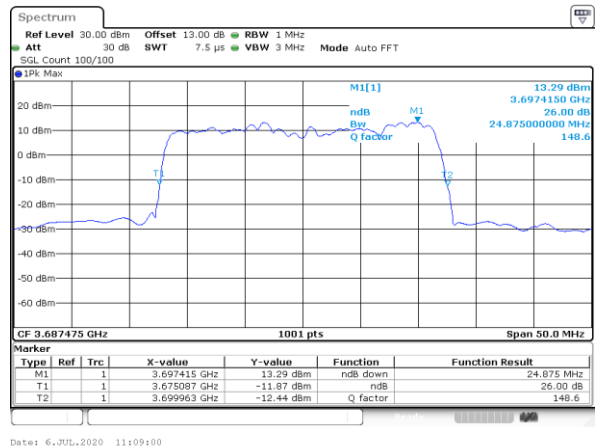
Middle Channel / 20MHz+5MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+5MHz

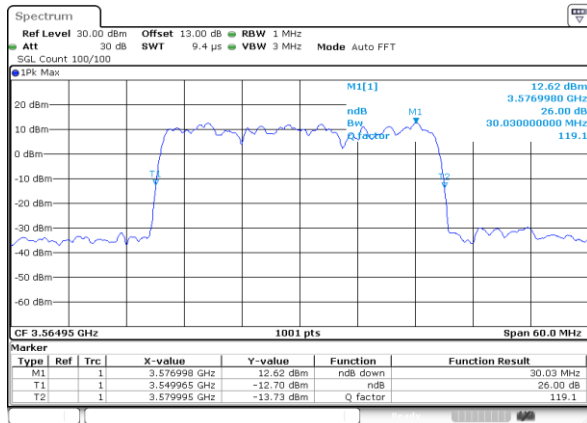




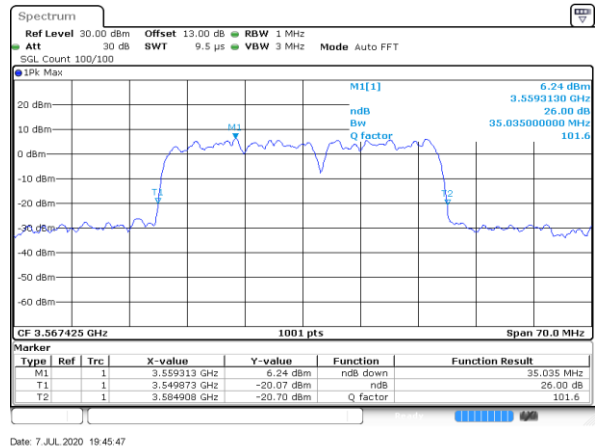
LTE Band 48C

QPSK

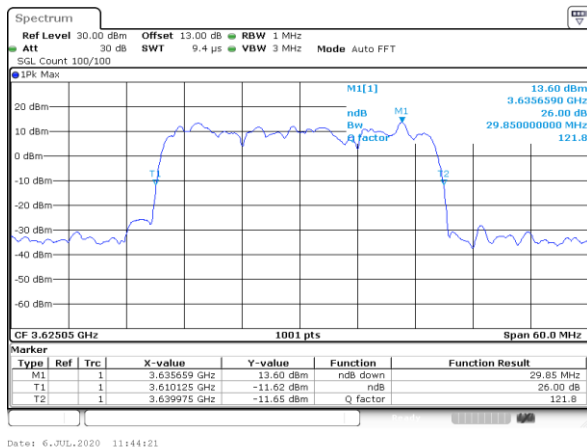
Lowest Channel / 20MHz+10MHz



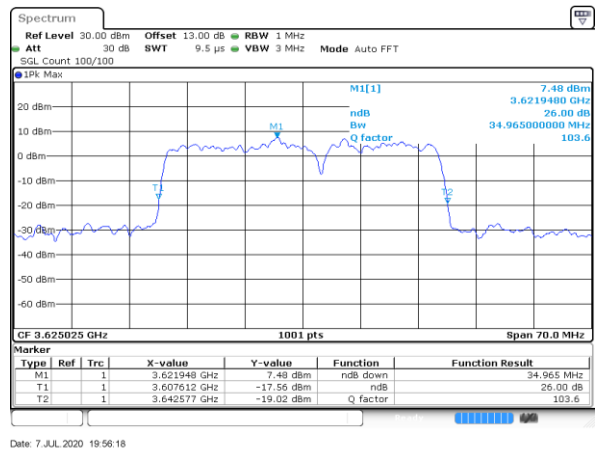
Lowest Channel / 20MHz+15MHz



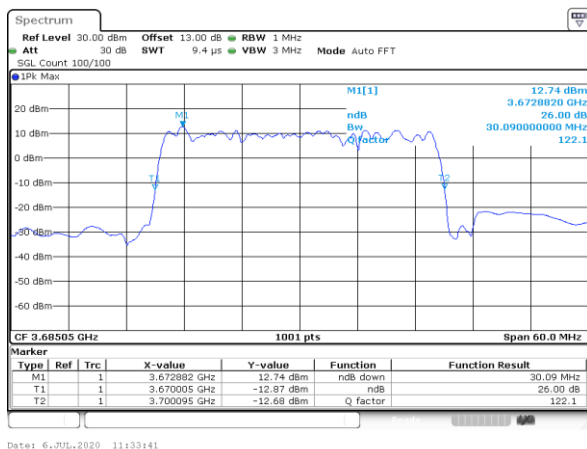
Middle Channel / 20MHz+10MHz



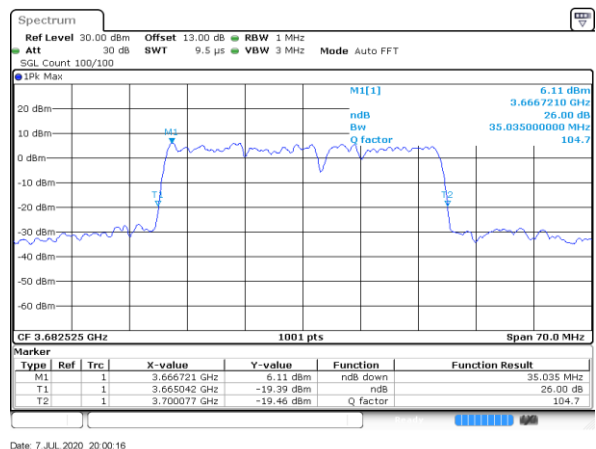
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



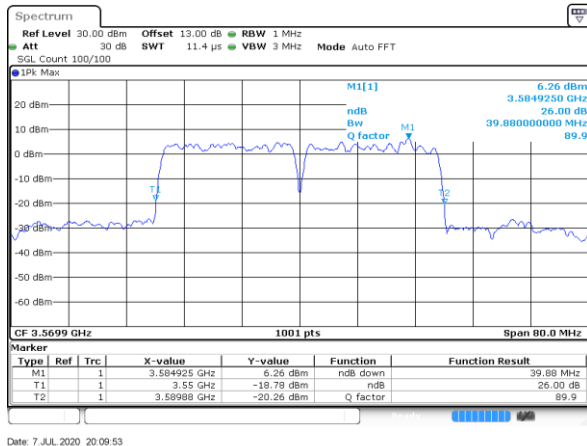


LTE Band 48C

QPSK

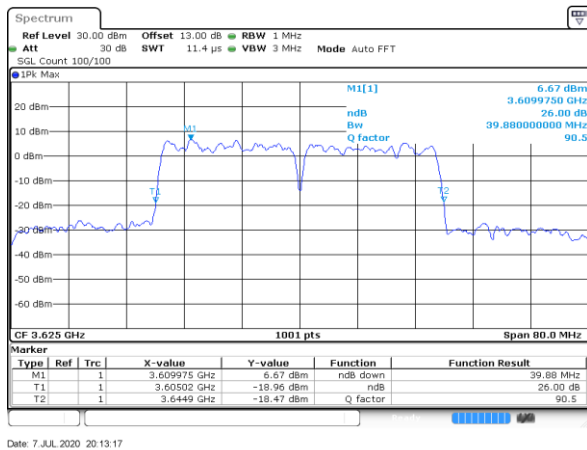
Lowest Channel / 20MHz+20MHz

N/A



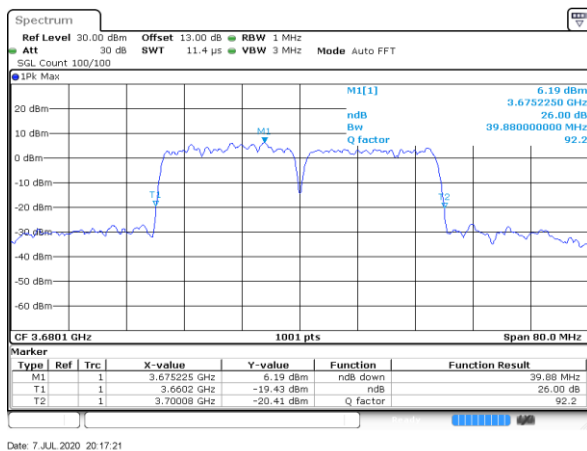
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A

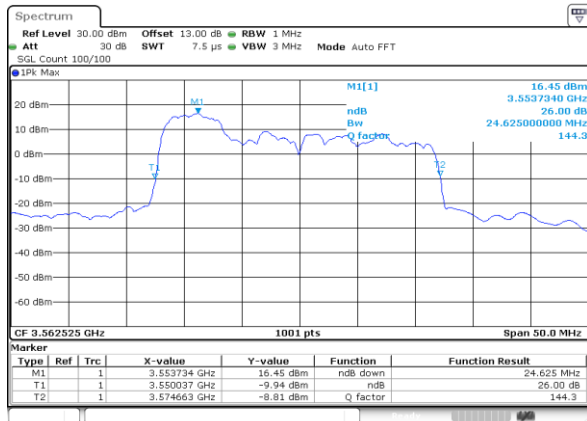




LTE Band 48C

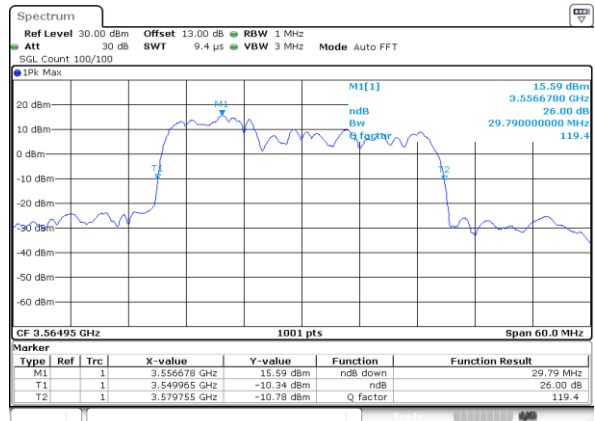
16QAM

Lowest Channel / 5MHz+20MHz



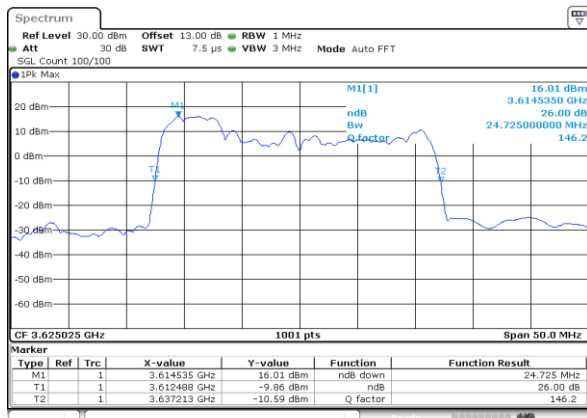
Date: 6.JUL.2020 11:01:41

Lowest Channel / 10MHz+15MHz



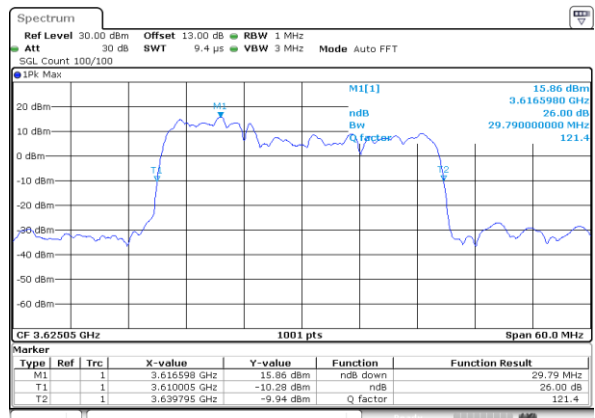
Date: 6.JUL.2020 11:26:40

Middle Channel / 5MHz+20MHz



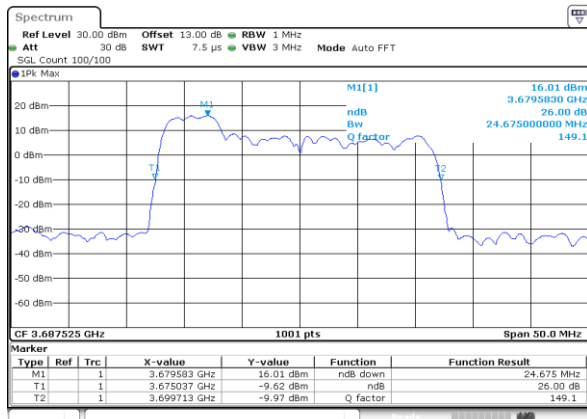
Date: 6.JUL.2020 10:57:25

Middle Channel / 10MHz+20MHz



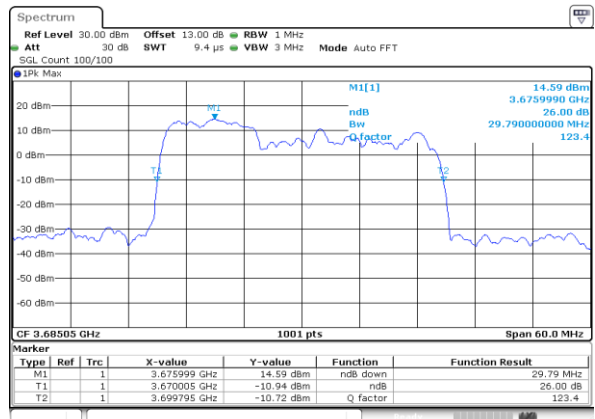
Date: 6.JUL.2020 11:29:57

Highest Channel / 5MHz+20MHz



Date: 6.JUL.2020 11:04:46

Highest Channel / 10MHz+20MHz



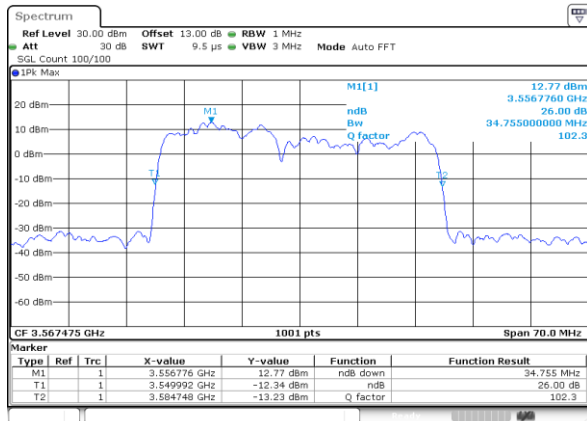
Date: 6.JUL.2020 11:23:04



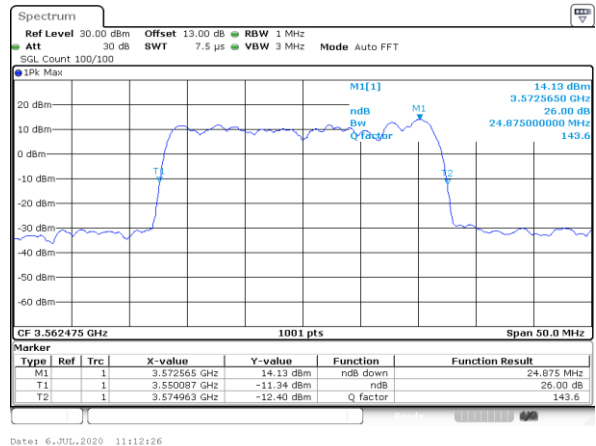
LTE Band 48C

16QAM

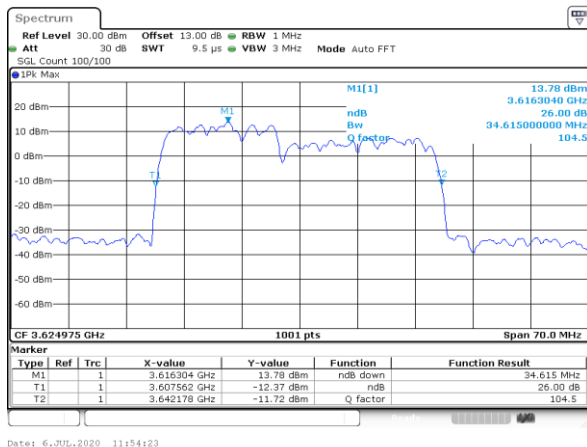
Lowest Channel / 10MHz+20MHz



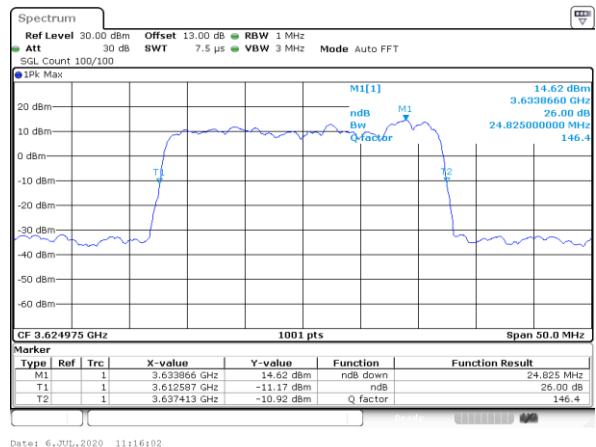
Lowest Channel / 15MHz+10MHz



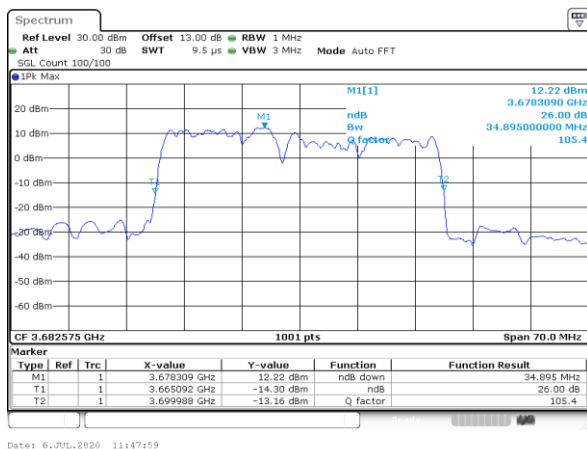
Middle Channel / 15MHz+20MHz



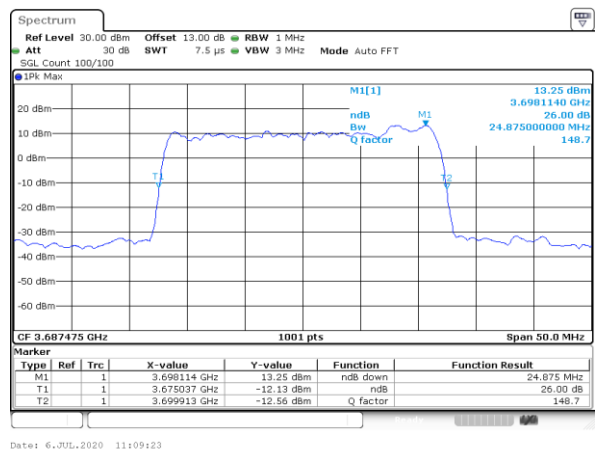
Middle Channel / 20MHz+5MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+5MHz

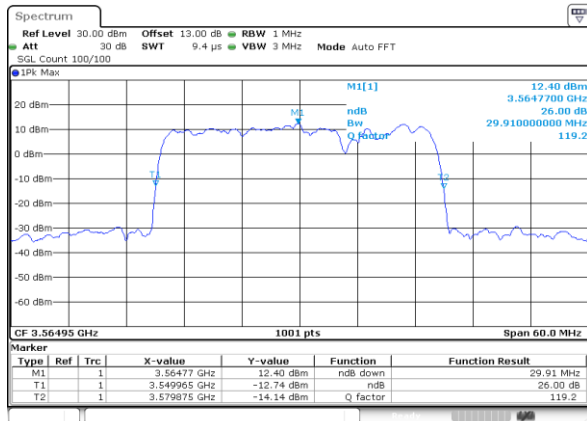




LTE Band 48C

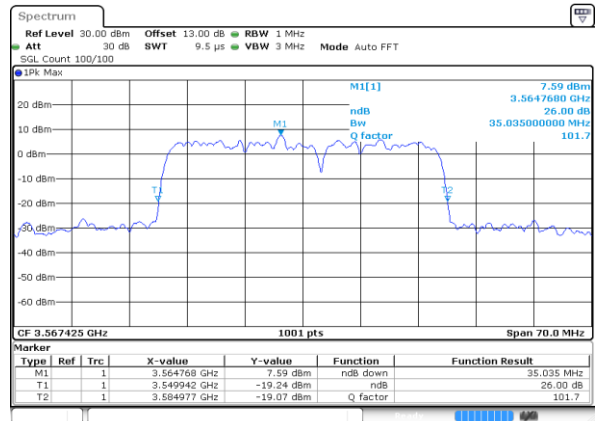
16QAM

Lowest Channel / 15MHz+15MHz



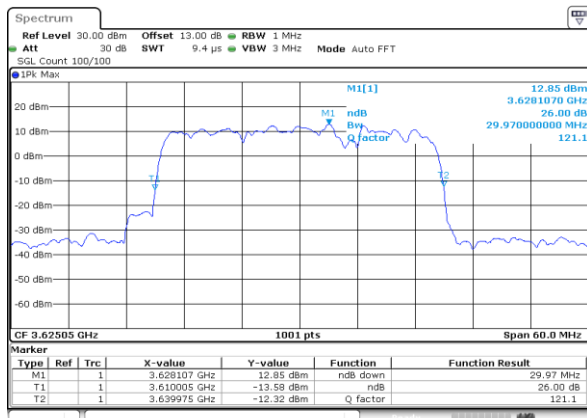
Date: 6.JUL.2020 11:41:09

Lowest Channel / 15MHz+20MHz



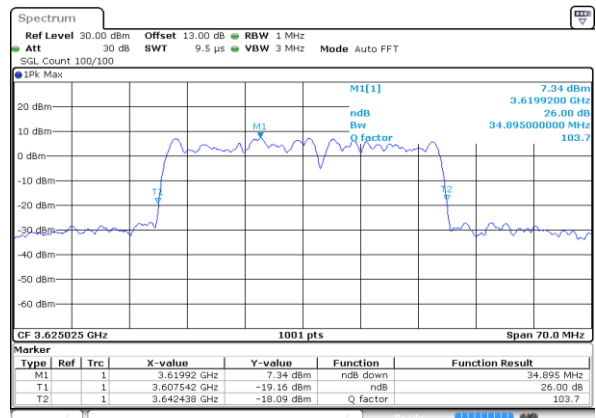
Date: 7 JUL 2020 19:45:23

Middle Channel / 20MHz+10MHz



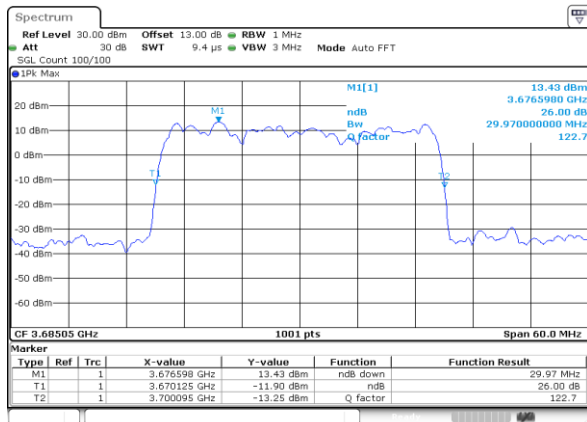
Date: 6.JUL.2020 11:43:58

Middle Channel / 20MHz+15MHz



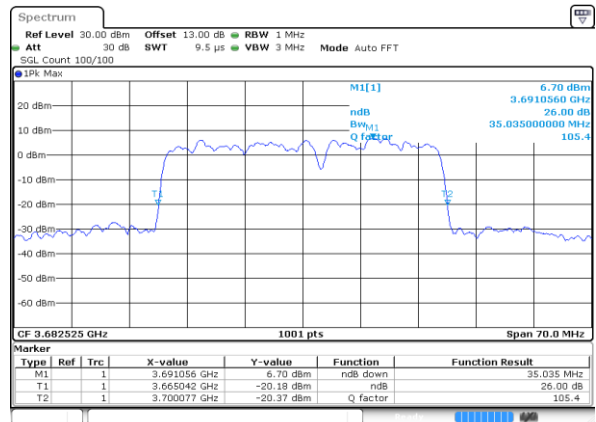
Date: 7 JUL 2020 19:55:54

Highest Channel / 20MHz+10MHz



Date: 6.JUL.2020 11:34:03

Highest Channel / 20MHz+15MHz



Date: 7 JUL 2020 20:00:40

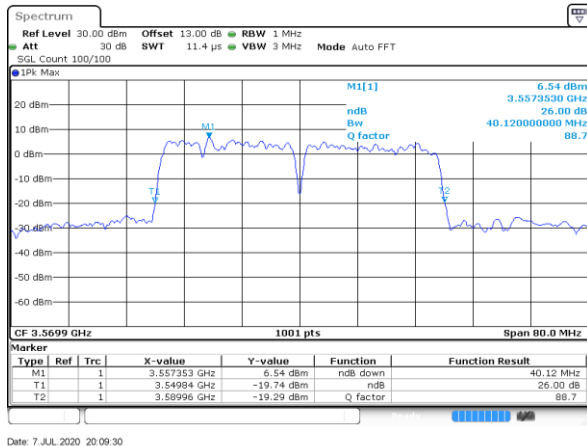


LTE Band 48C

16QAM

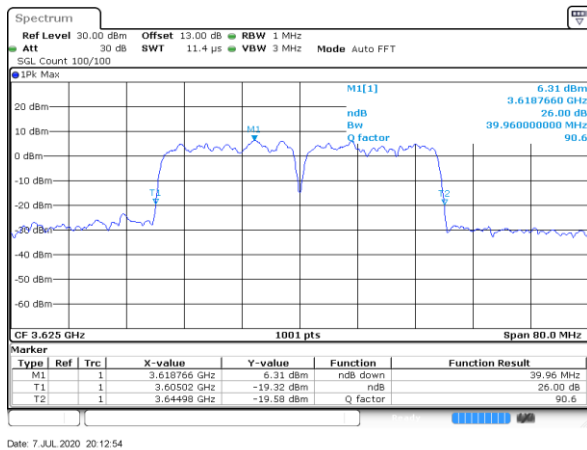
Lowest Channel / 20MHz+20MHz

N/A



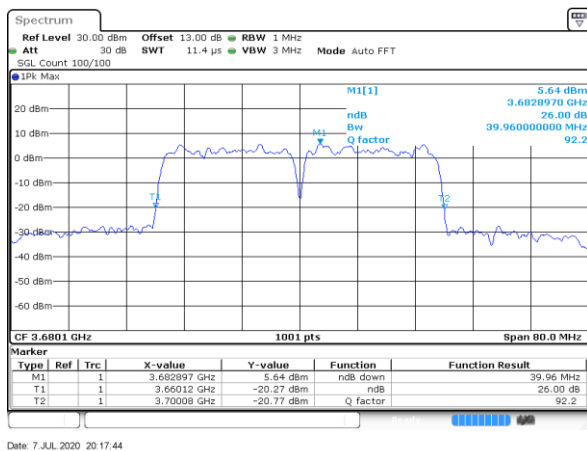
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A

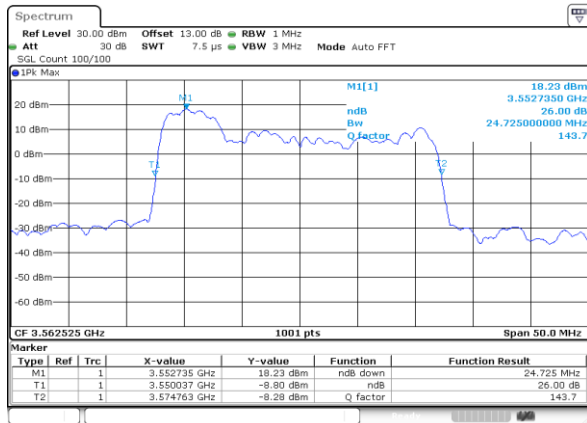




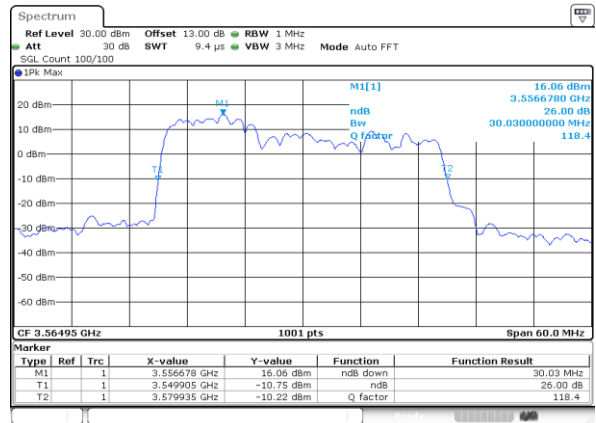
LTE Band 48C

64QAM

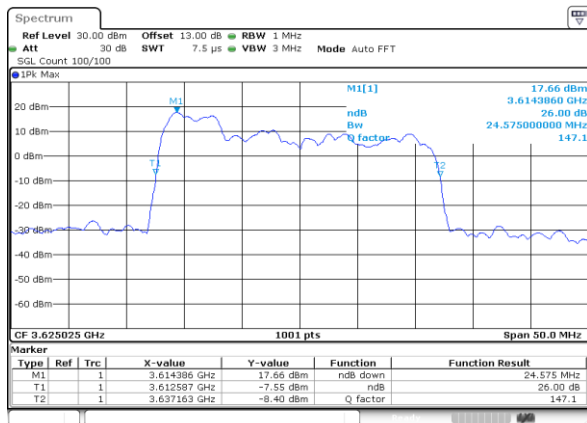
Lowest Channel / 5MHz+20MHz



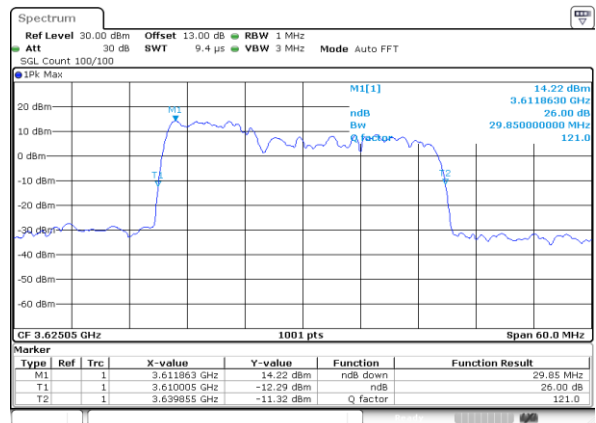
Lowest Channel / 10MHz+15MHz



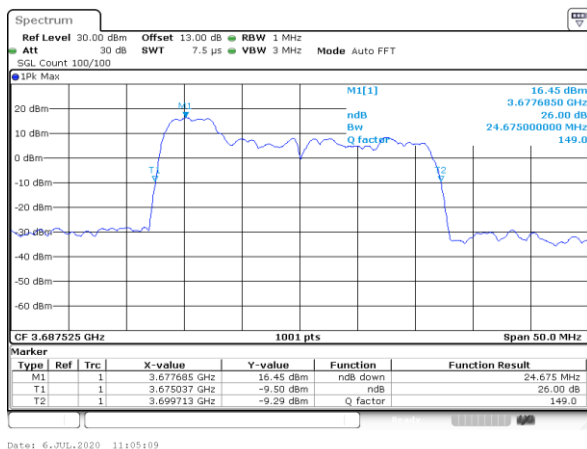
Middle Channel / 5MHz+20MHz



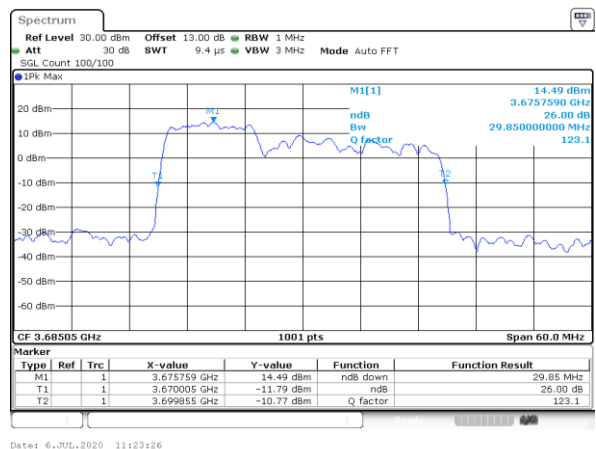
Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+20MHz

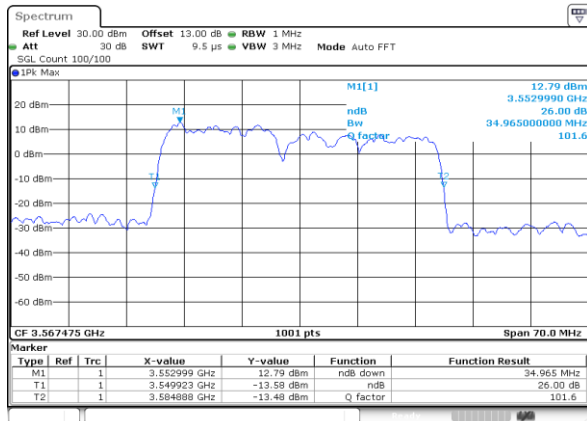




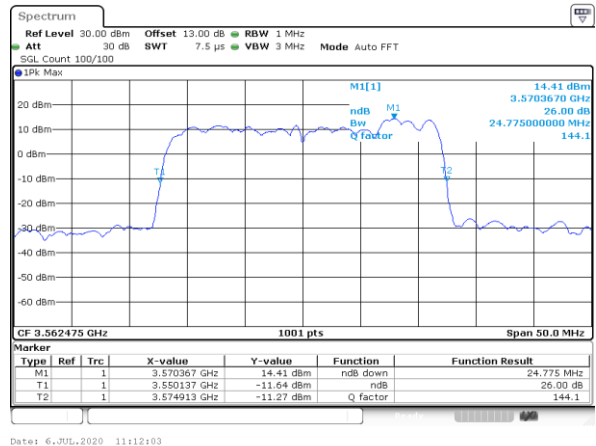
LTE Band 48C

64QAM

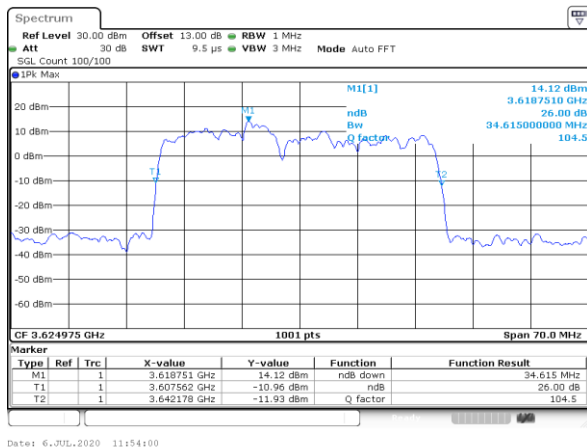
Lowest Channel / 10MHz+20MHz



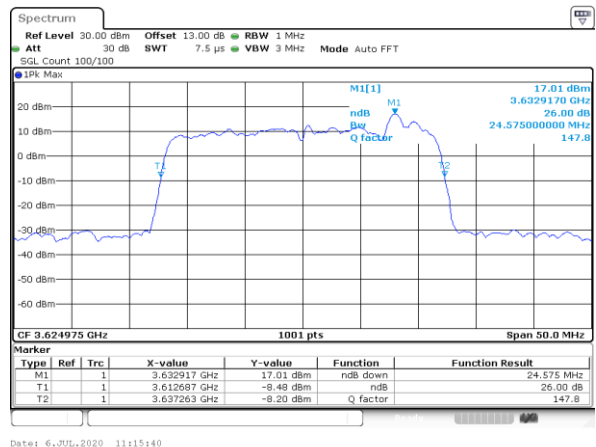
Lowest Channel / 15MHz+10MHz



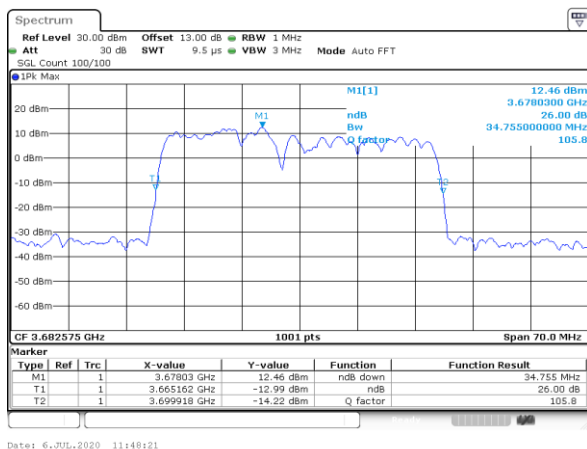
Middle Channel / 15MHz+20MHz



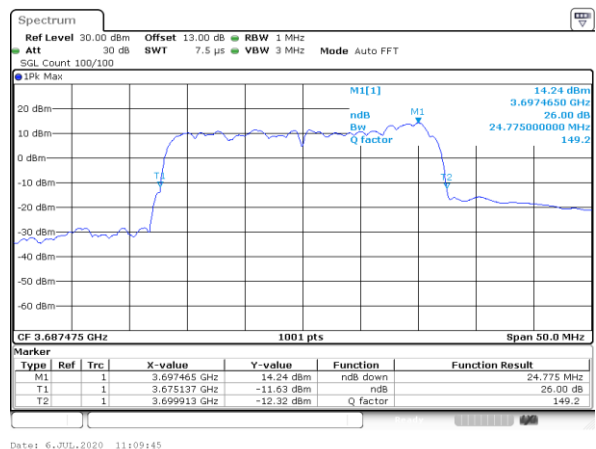
Middle Channel / 20MHz+5MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+5MHz

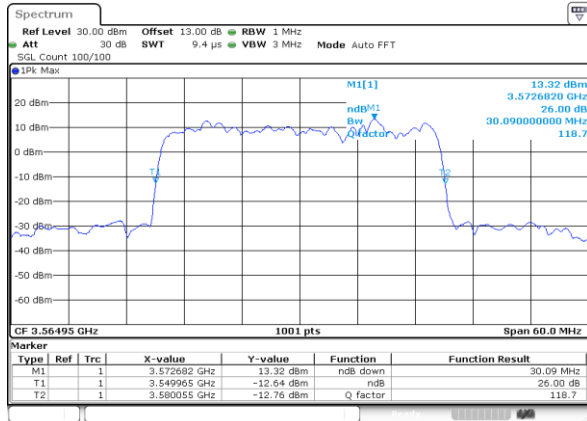




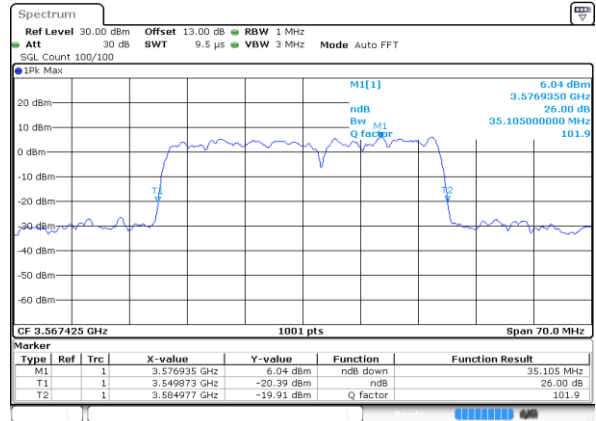
LTE Band 48C

64QAM

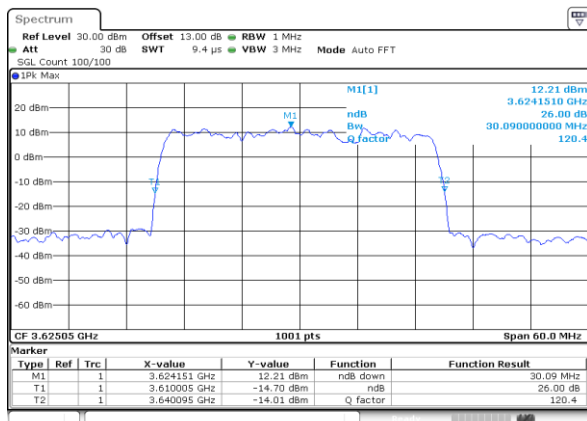
Lowest Channel / 15MHz+15MHz



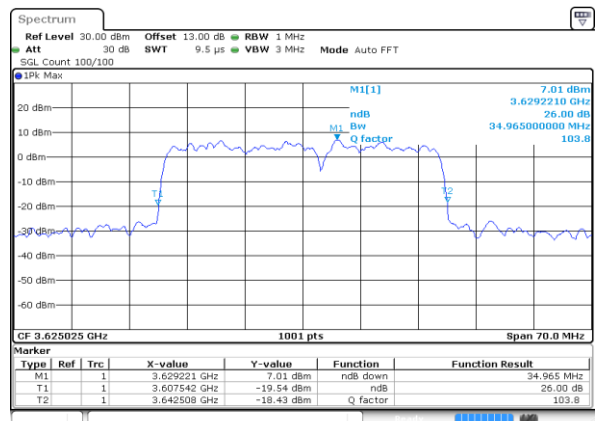
Lowest Channel / 15MHz+20MHz



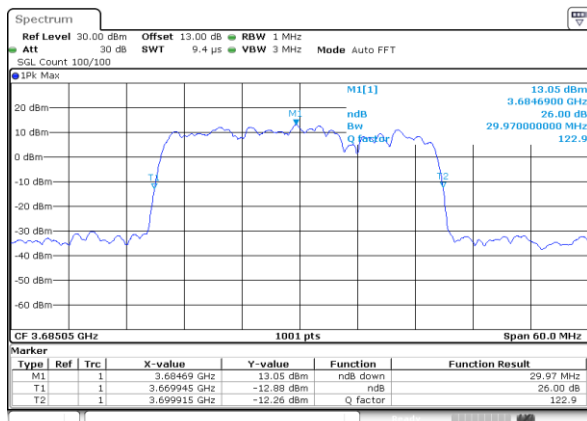
Middle Channel / 20MHz+10MHz



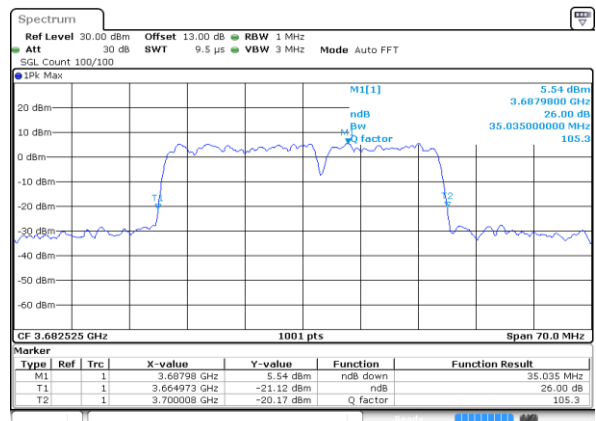
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



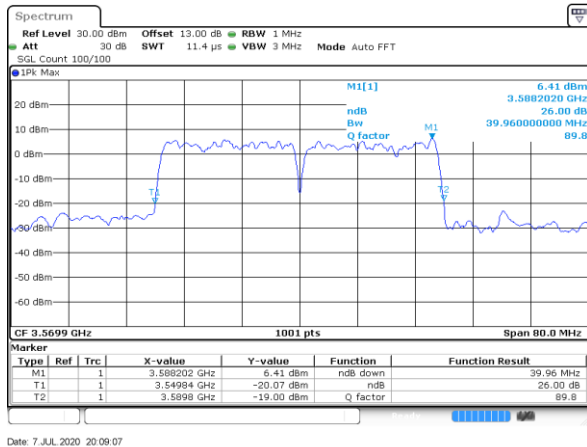


LTE Band 48C

64QAM

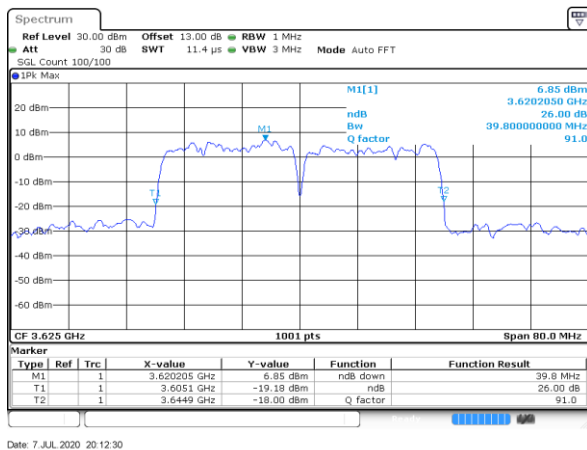
Lowest Channel / 20MHz+20MHz

N/A



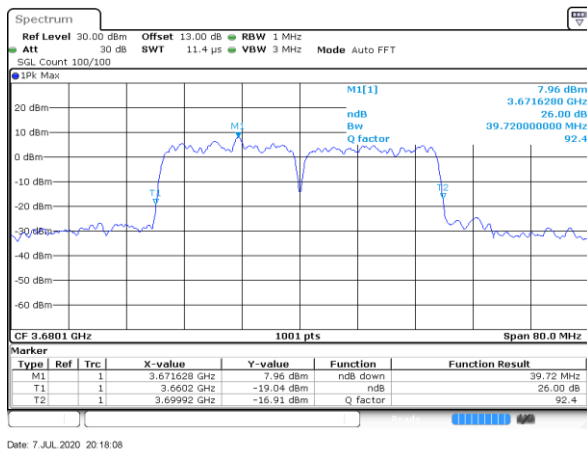
Middle Channel / 20MHz+20MHz

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	23.38	28.05	32.80	23.03
Middle CH	22.98	27.87	32.66	23.28
Highest CH	23.03	27.69	32.94	23.18
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	28.11	32.94	37.96	-
Middle CH	28.05	33.08	37.88	-
Highest CH	27.93	33.01	37.80	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	23.23	28.05	32.73	23.18
Middle CH	23.33	27.99	32.66	23.18
Highest CH	23.23	27.87	32.94	23.03
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	28.11	33.08	37.80	-
Middle CH	28.17	32.87	37.80	-
Highest CH	28.05	32.94	37.48	-

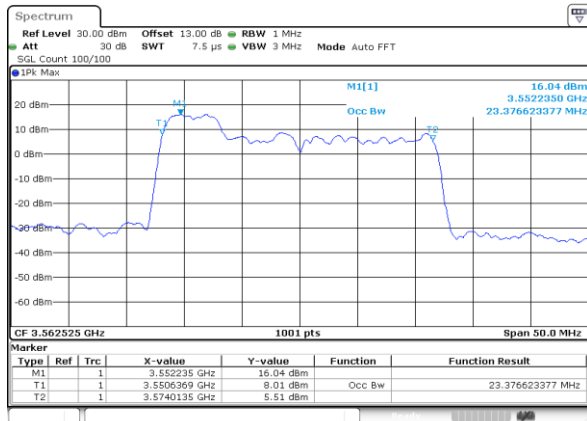
Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	23.13	28.29	32.87	23.03
Middle CH	23.13	28.29	32.80	23.13
Highest CH	23.38	27.99	32.52	23.13
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.93	32.73	37.48	-
Middle CH	28.17	32.94	37.56	-
Highest CH	27.87	32.87	37.80	-



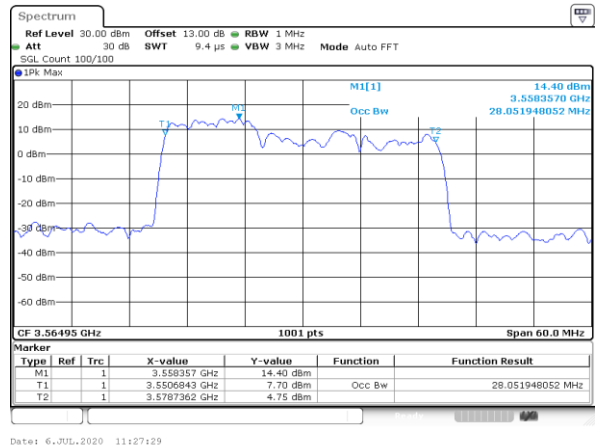
LTE Band 48C

QPSK

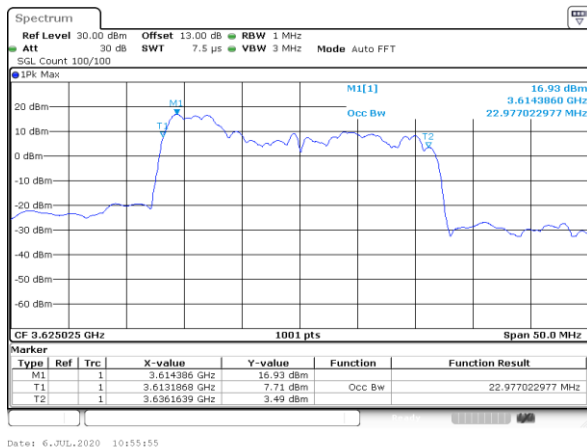
Lowest Channel / 5MHz+20MHz



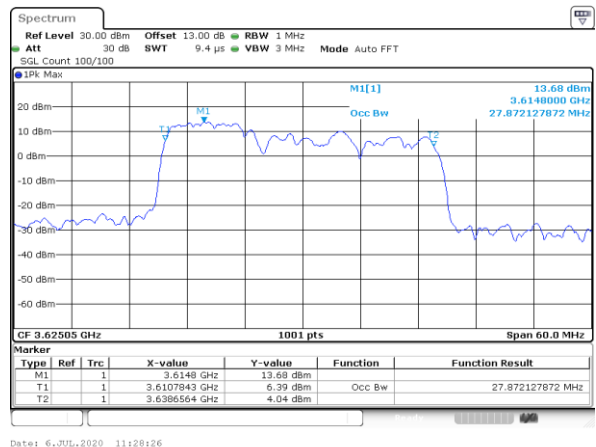
Lowest Channel / 10MHz+20MHz



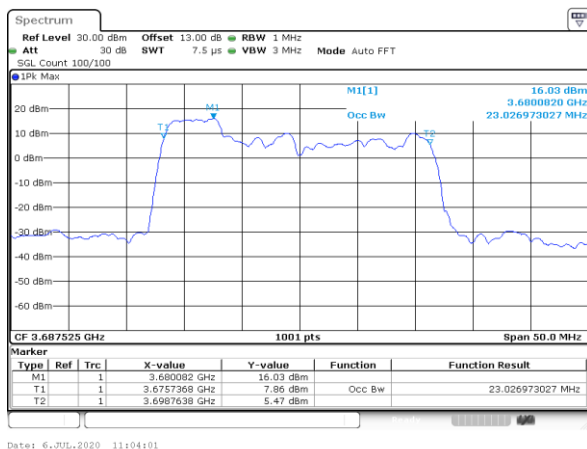
Middle Channel / 5MHz+20MHz



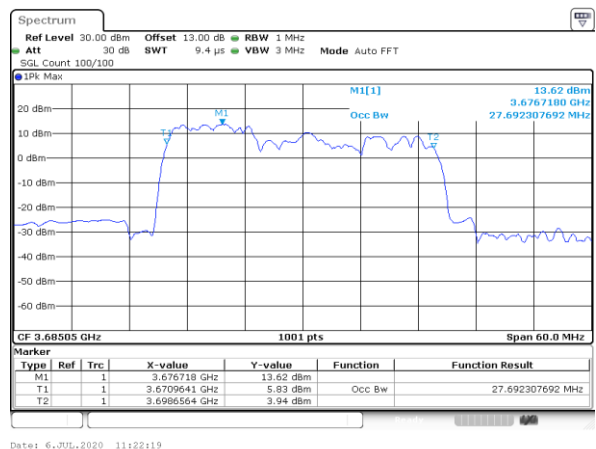
Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+20MHz

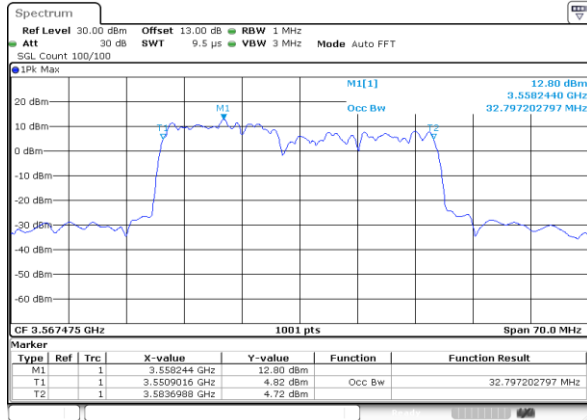




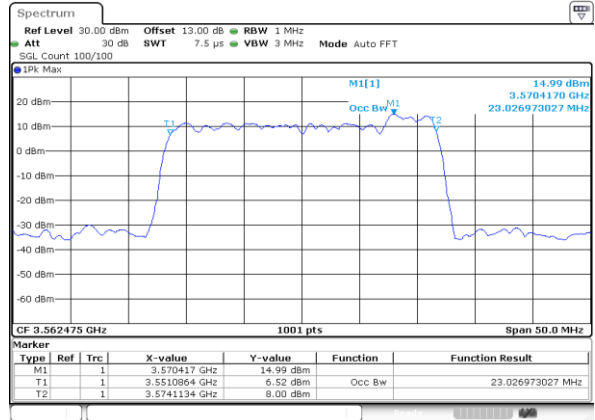
LTE Band 48C

QPSK

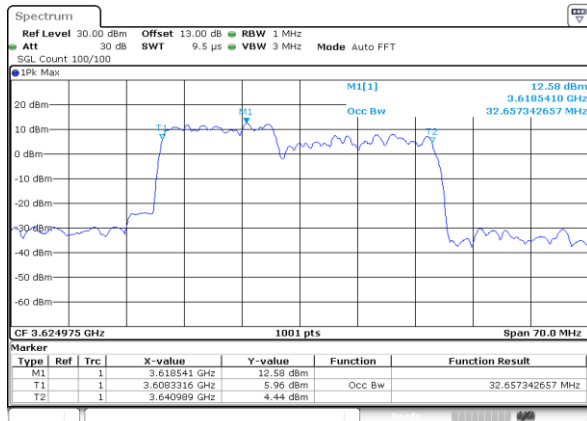
Lowest Channel / 15MHz+20MHz



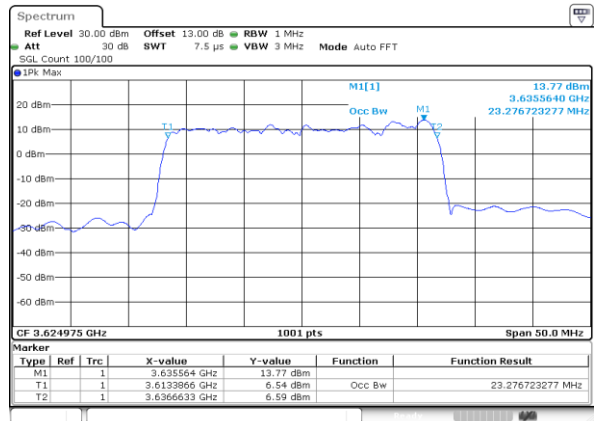
Lowest Channel / 20MHz+5MHz



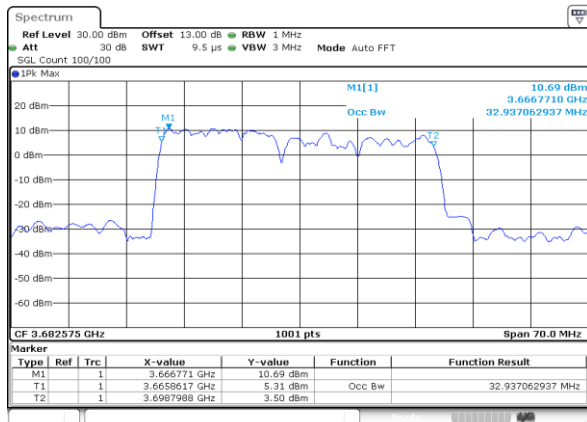
Middle Channel / 15MHz+20MHz



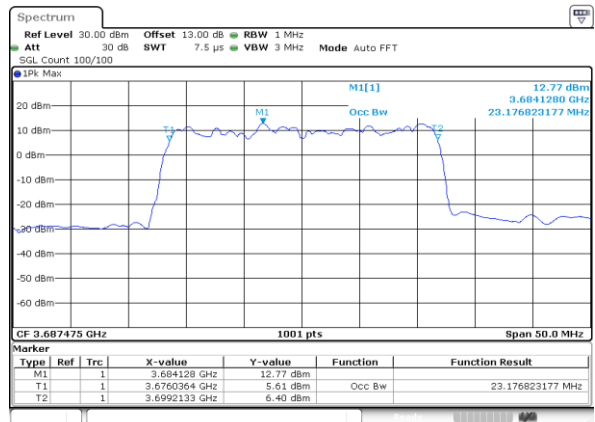
Middle Channel / 20MHz+5MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+5MHz

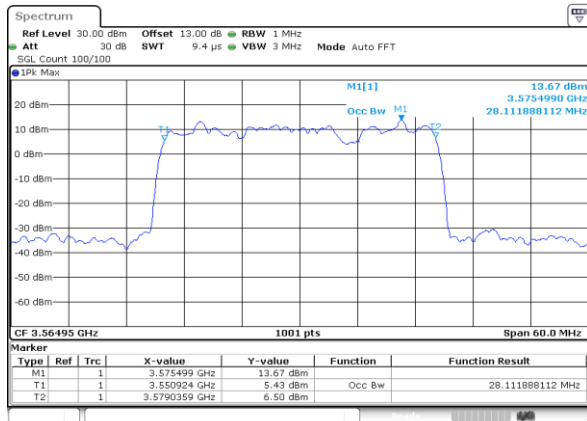




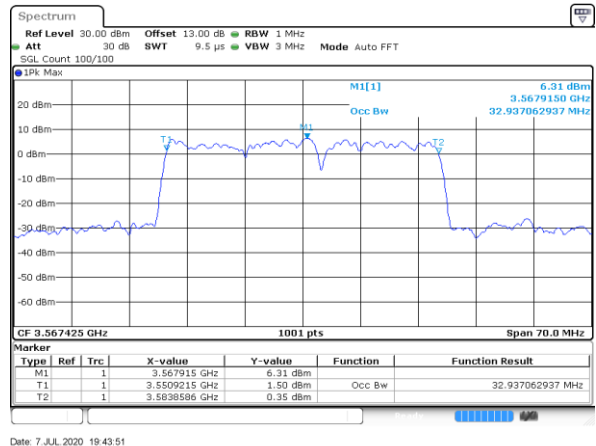
LTE Band 48C

QPSK

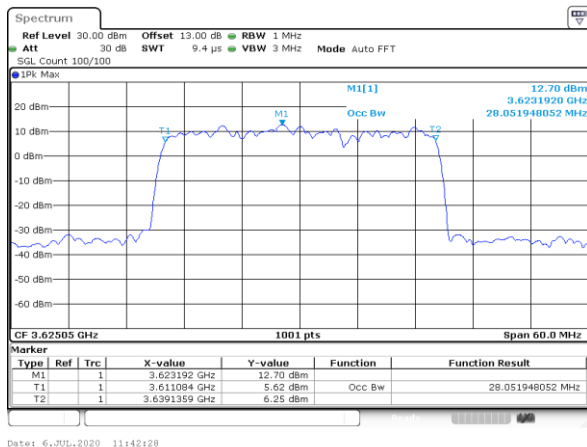
Lowest Channel / 20MHz+10MHz



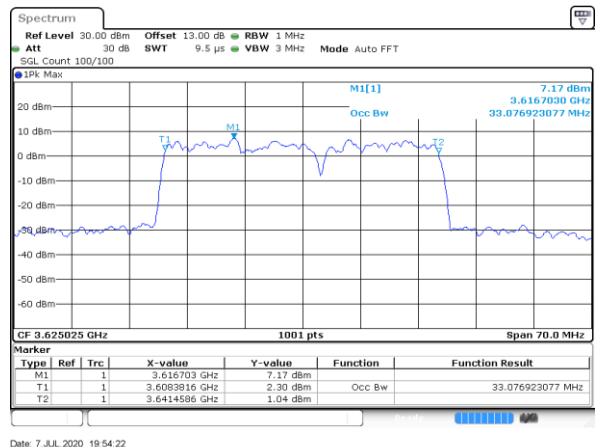
Lowest Channel / 20MHz+15MHz



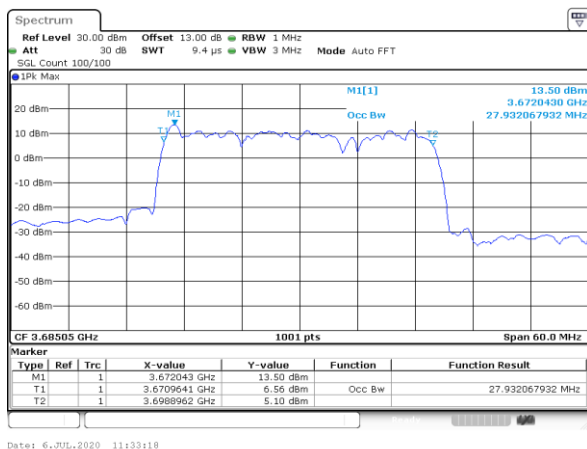
Middle Channel / 20MHz+10MHz



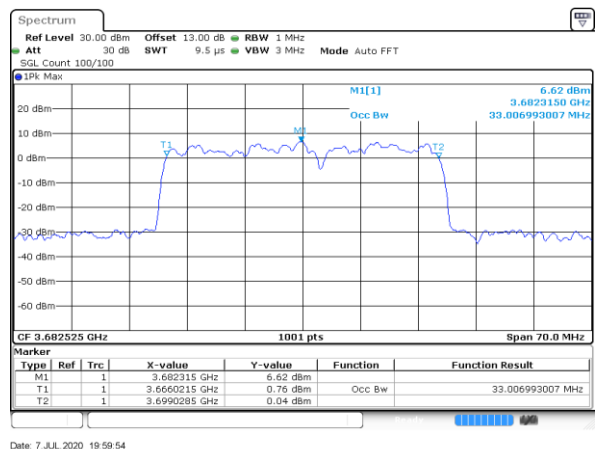
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



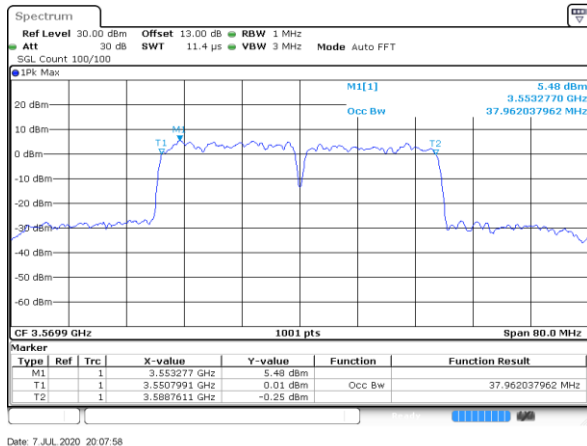


LTE Band 48C

QPSK

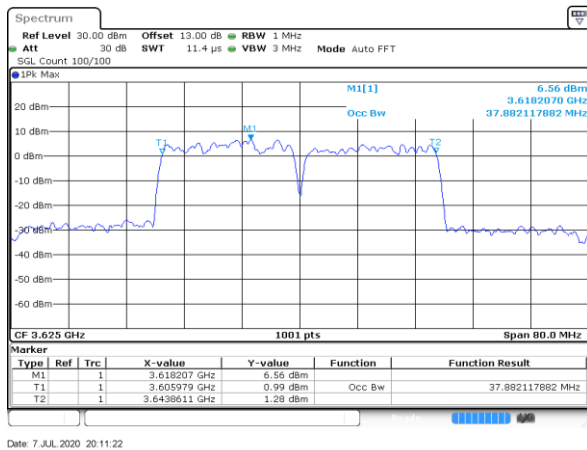
Lowest Channel / 20MHz+20MHz

N/A



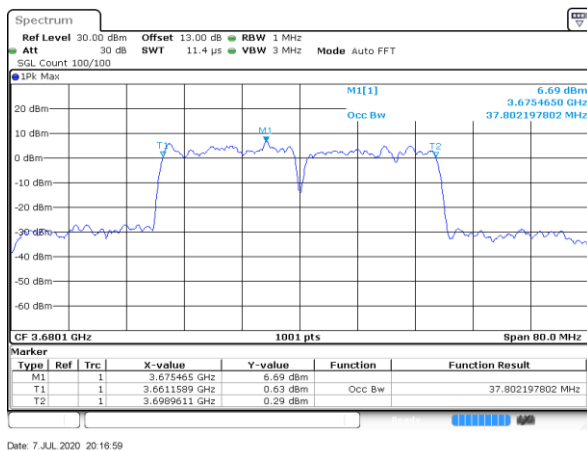
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A

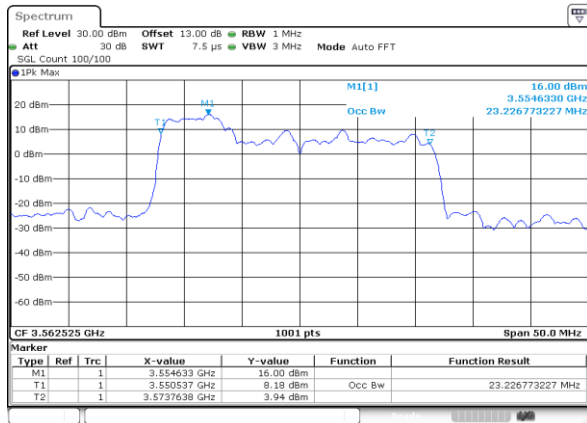




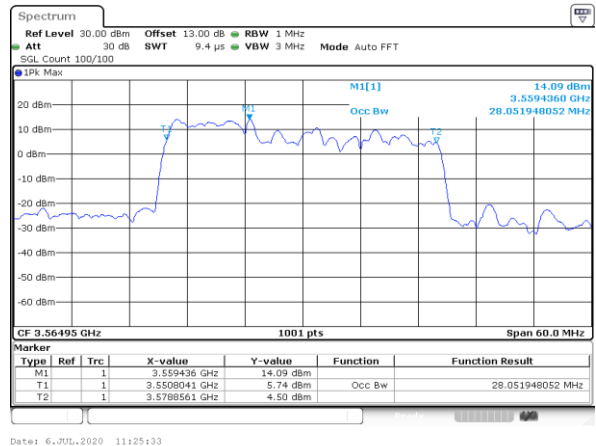
LTE Band 48C

16QAM

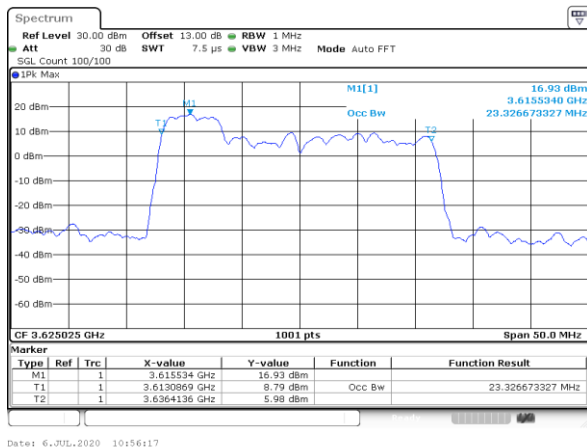
Lowest Channel / 5MHz+20MHz



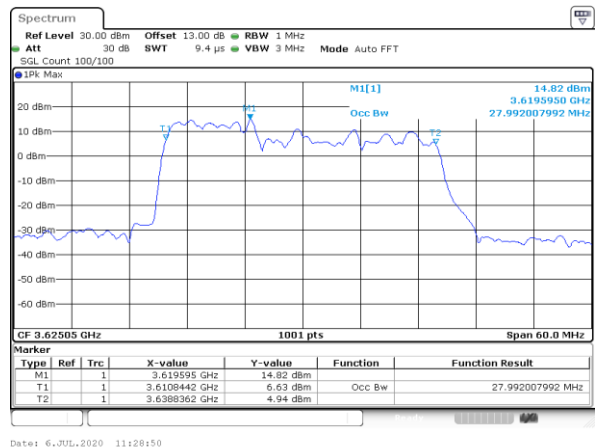
Lowest Channel / 10MHz+20MHz



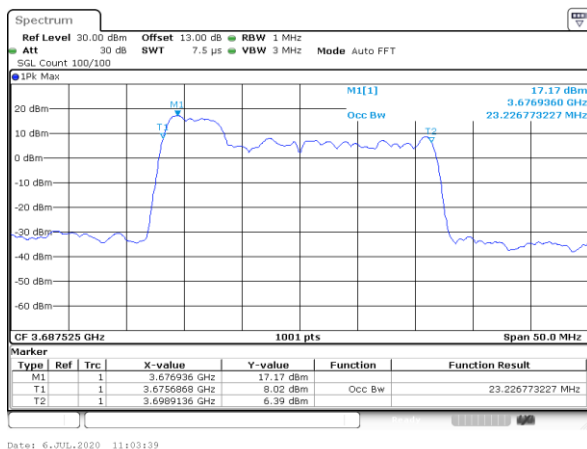
Middle Channel / 5MHz+20MHz



Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+20MHz

