

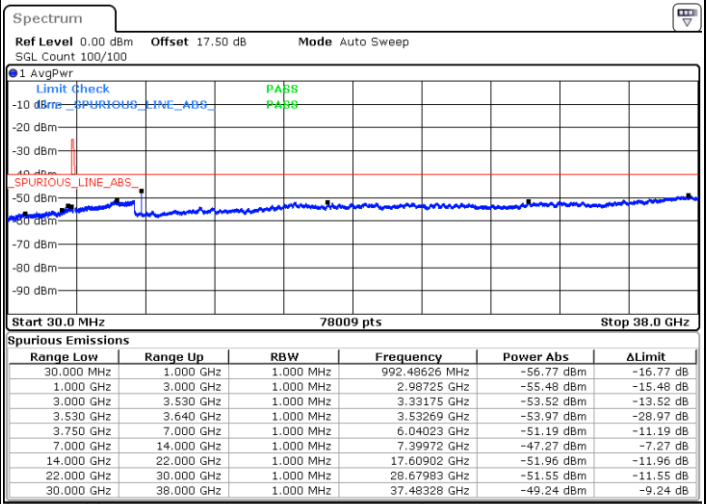
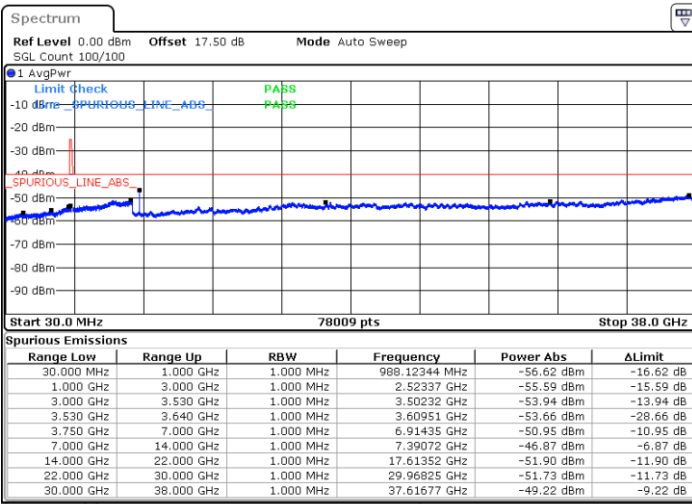


LTE Band 48 / 5MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

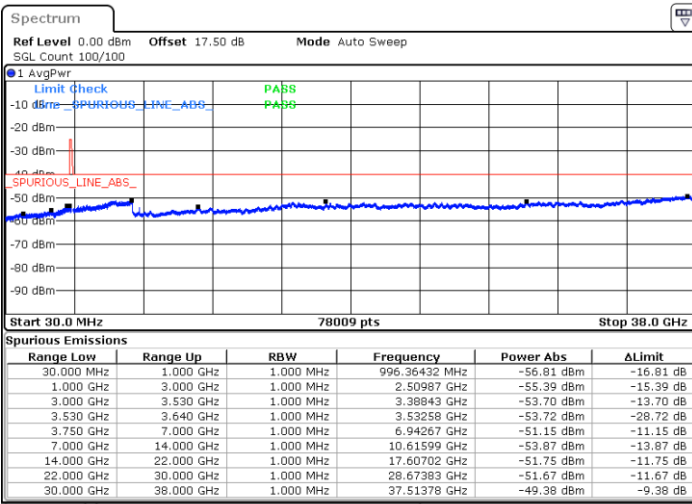


Date: 27.MAY.2020 01:53:41

Date: 27.MAY.2020 02:13:02

Highest Channel / FullIRB

N/A



Date: 27.MAY.2020 02:03:21

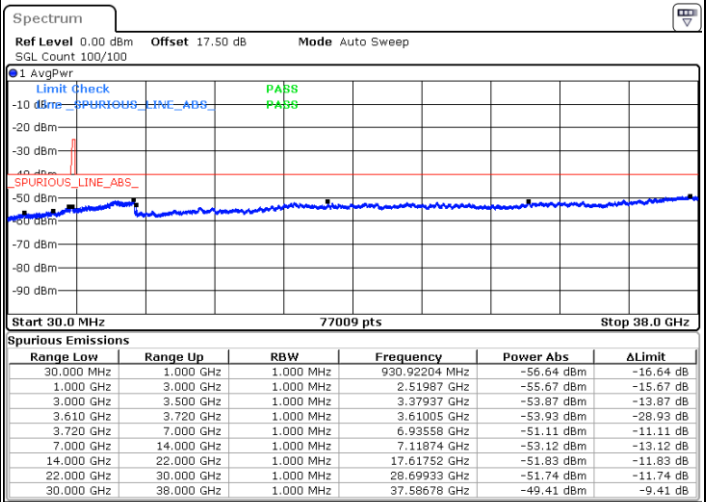
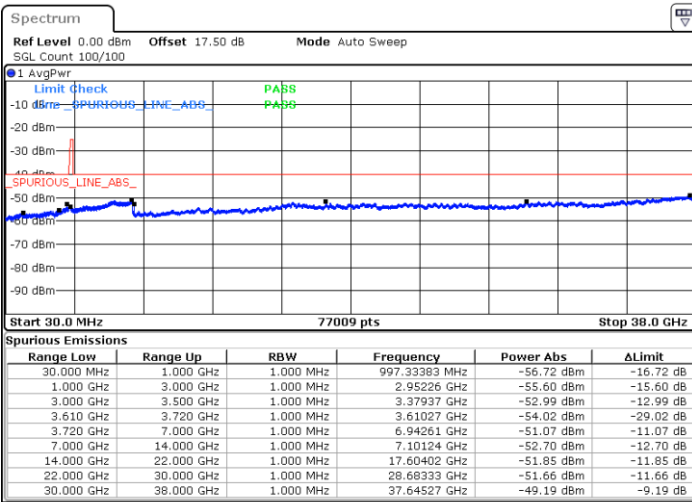


LTE Band 48 / 10MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

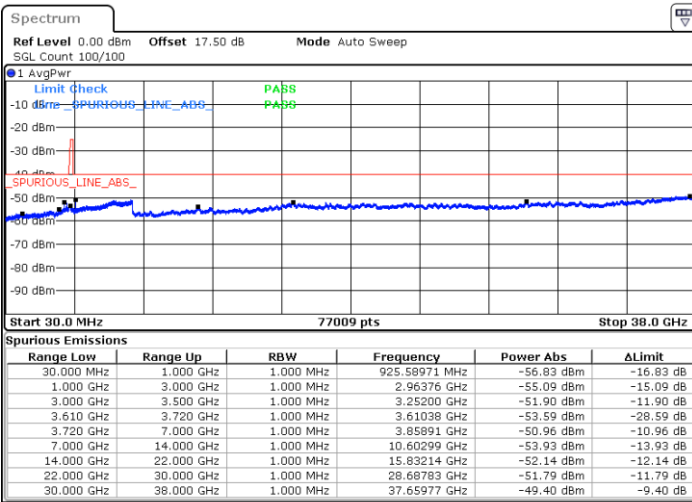


Date: 27.MAY.2020 02:14:07

Date: 27.MAY.2020 02:33:27

Lowest Channel / FullIRB

N/A



Date: 27.MAY.2020 02:23:47

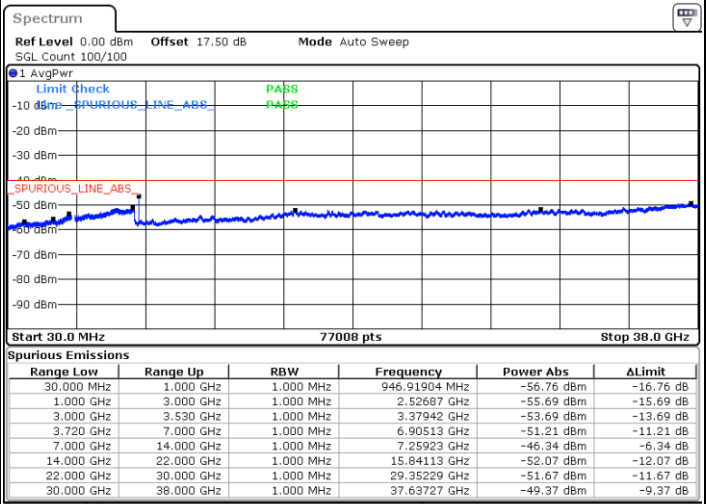
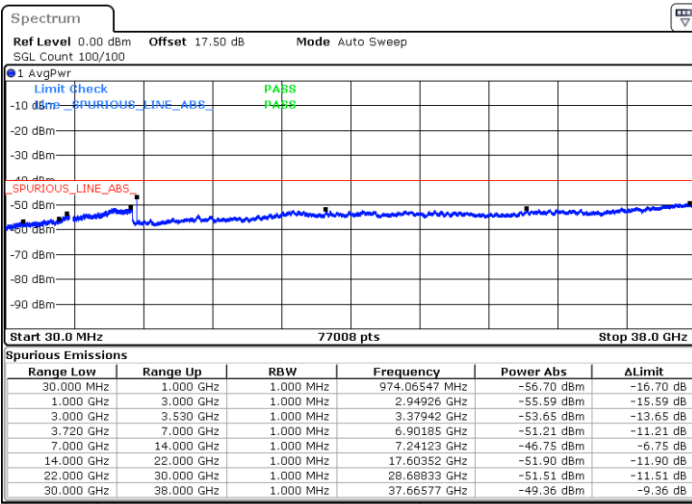


LTE Band 48 / 10MHz

64QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax

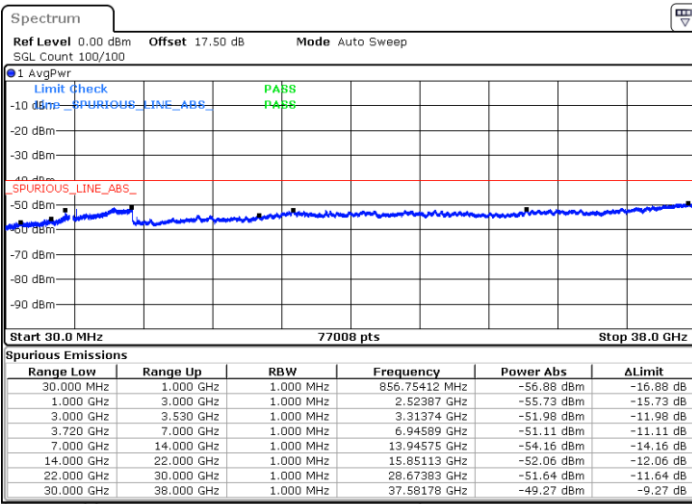


Date: 27.MAY.2020 02:19:28

Date: 27.MAY.2020 02:38:49

Middle Channel / FullIRB

N/A



Date: 27.MAY.2020 02:29:08

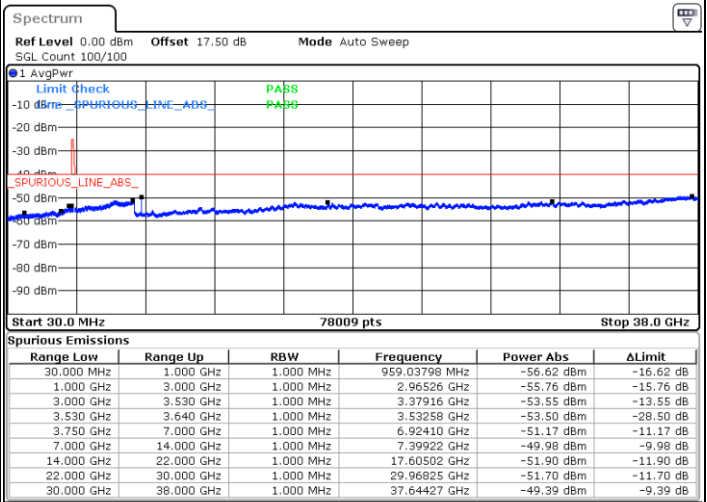
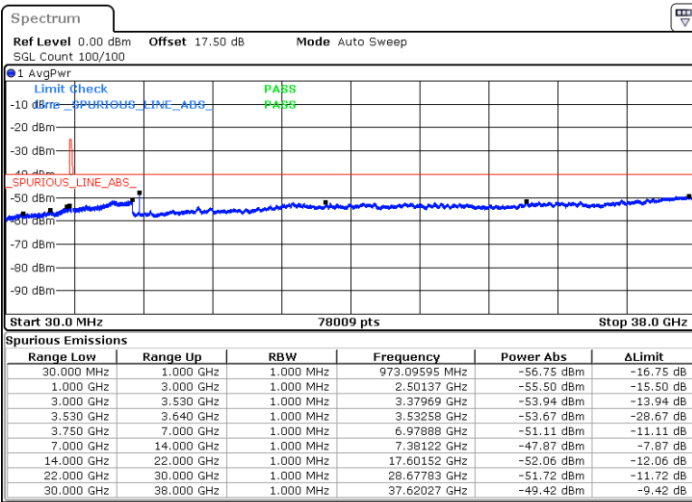


LTE Band 48 / 10MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

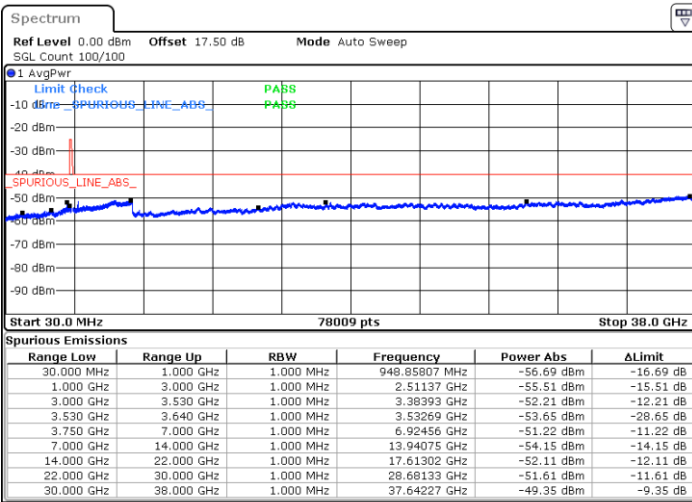


Date: 27.MAY.2020 02:20:32

Date: 27.MAY.2020 02:39:53

Highest Channel / FullRB

N/A



Date: 27.MAY.2020 02:30:13

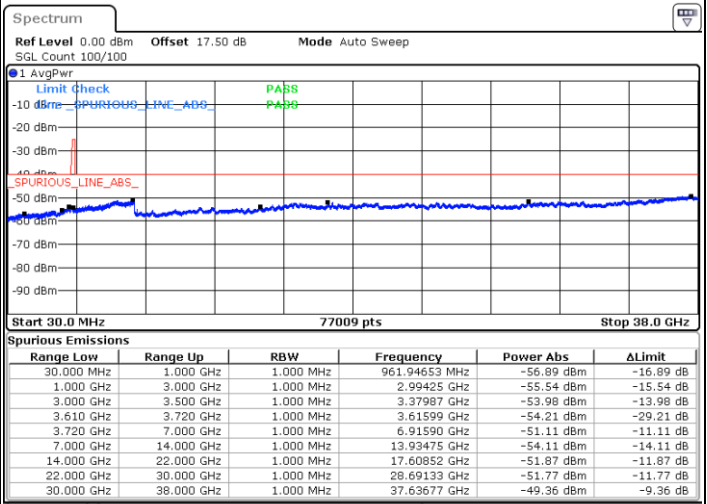
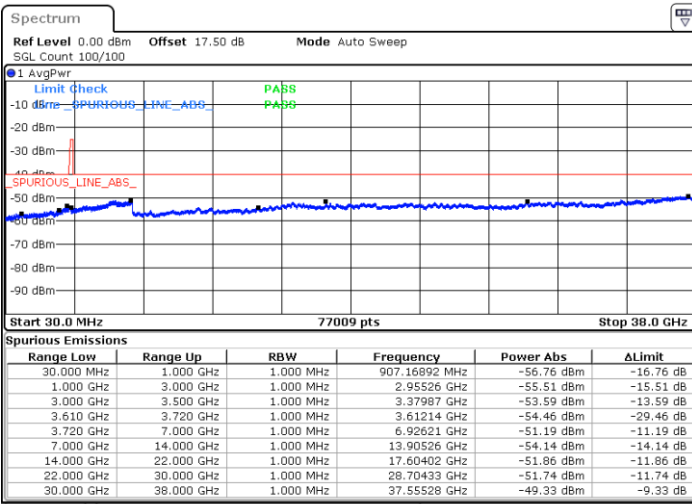


LTE Band 48 / 15MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

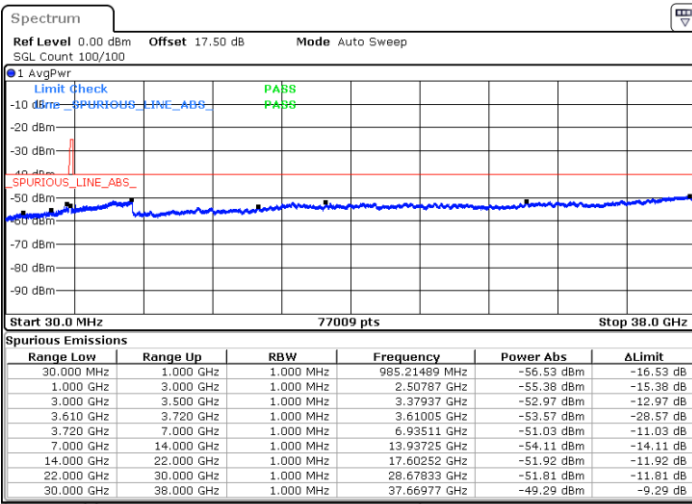


Date: 27.MAY.2020 02:45:18

Date: 27.MAY.2020 03:04:39

Lowest Channel / FullRB

N/A



Date: 27.MAY.2020 02:54:59

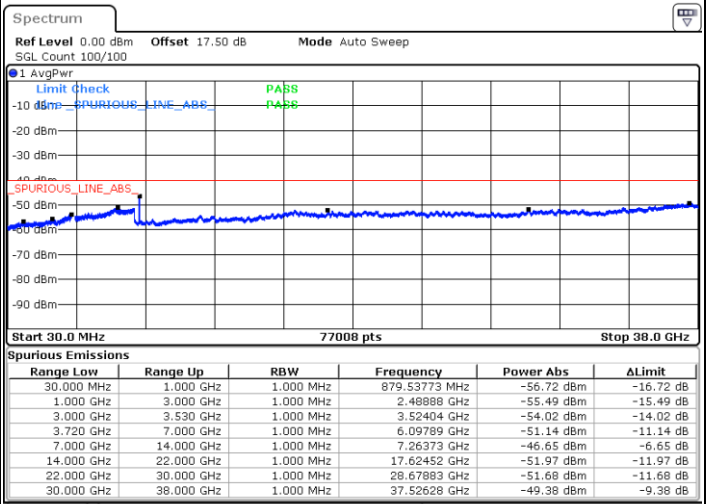
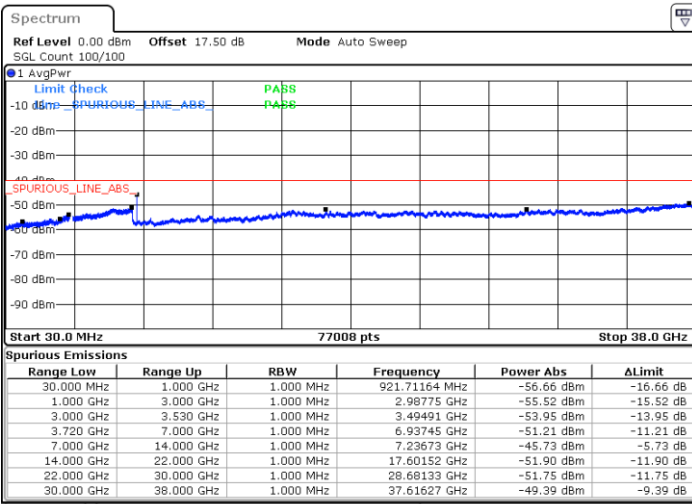


LTE Band 48 / 15MHz

64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

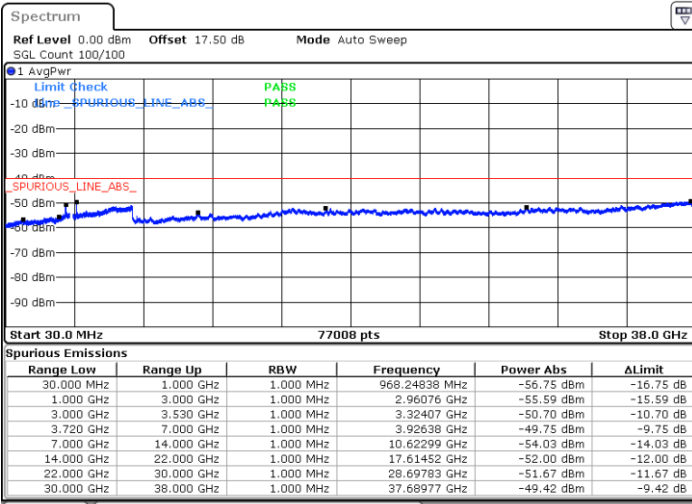


Date: 27.MAY.2020 02:46:22

Date: 27.MAY.2020 03:05:43

Middle Channel / FullIRB

N/A



Date: 27.MAY.2020 02:56:03

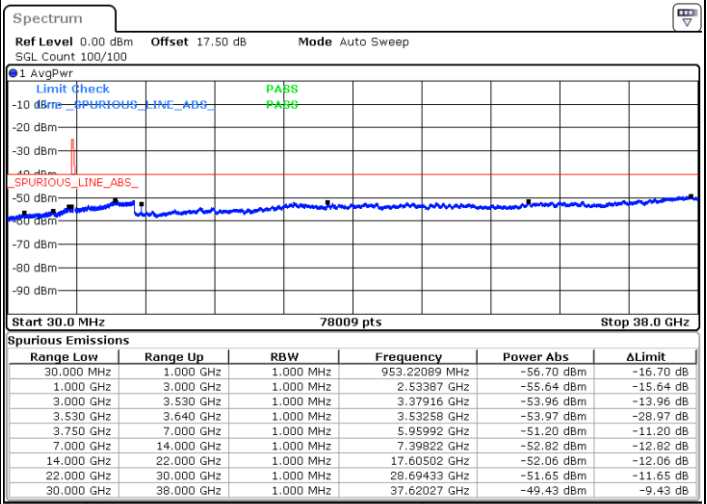
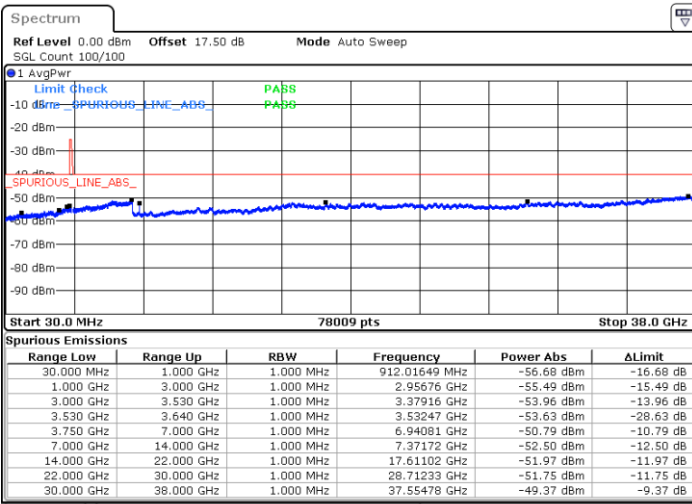


LTE Band 48 / 15MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

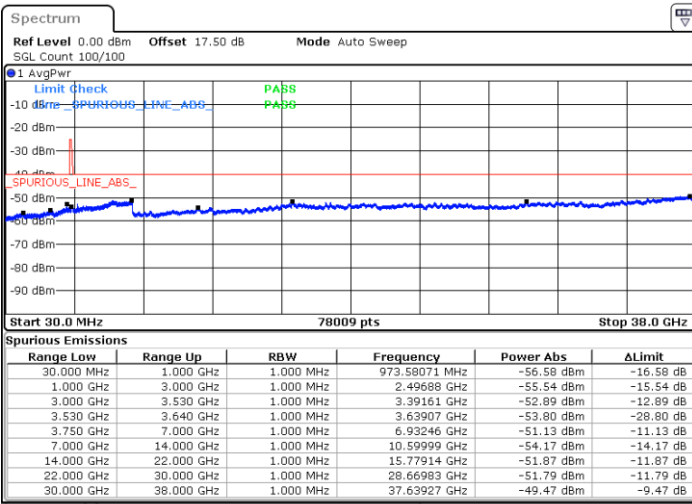


Date: 27.MAY.2020 02:51:44

Date: 27.MAY.2020 03:11:05

Highest Channel / FullRB

N/A



Date: 27.MAY.2020 03:01:25

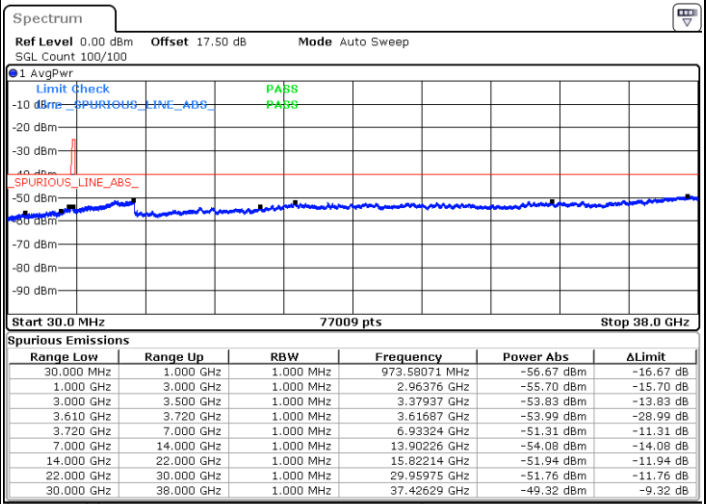
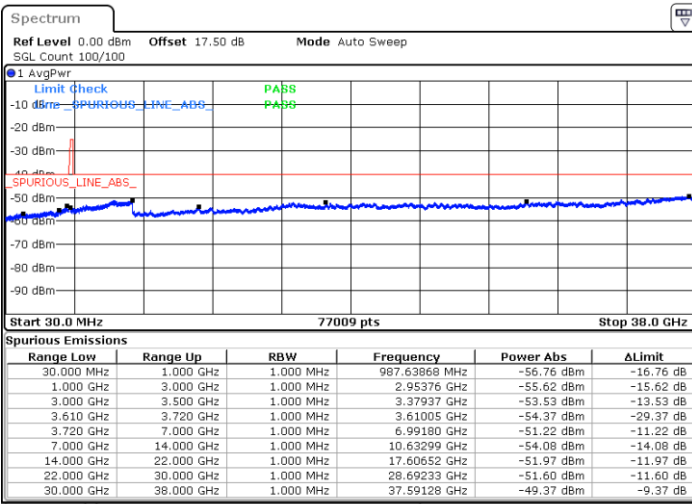


LTE Band 48 / 20MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

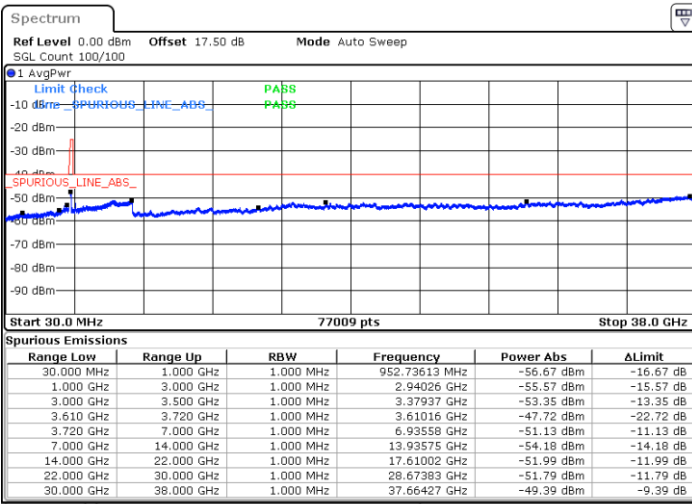


Date: 27.MAY.2020 03:21:51

Date: 27.MAY.2020 03:31:31

Lowest Channel / FullIRB

N/A



Date: 27.MAY.2020 03:12:10

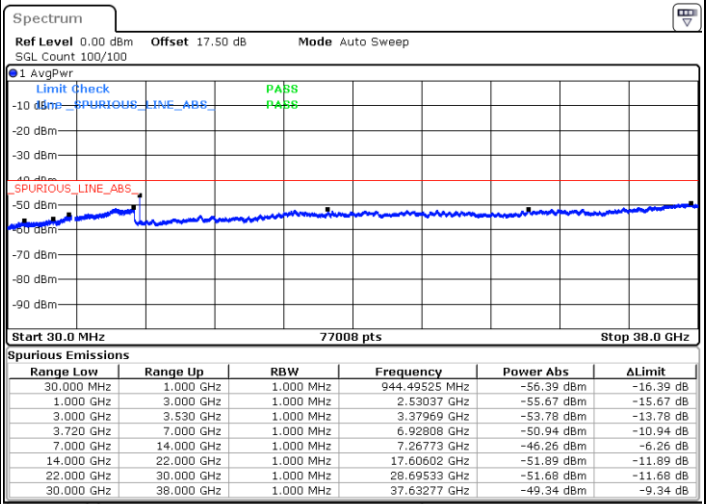
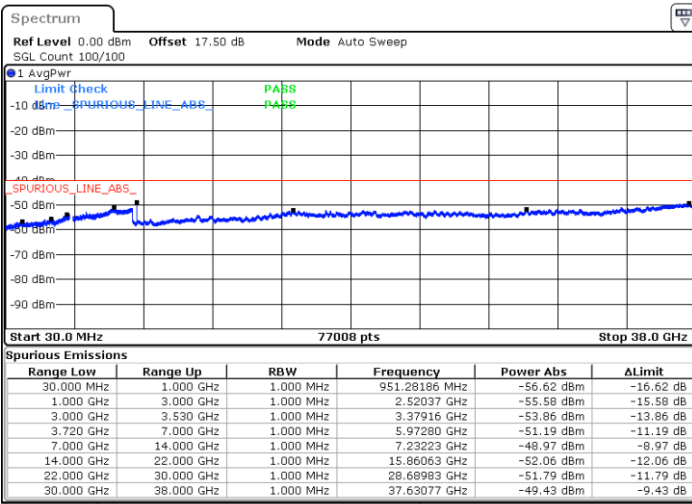


LTE Band 48 / 20MHz

64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

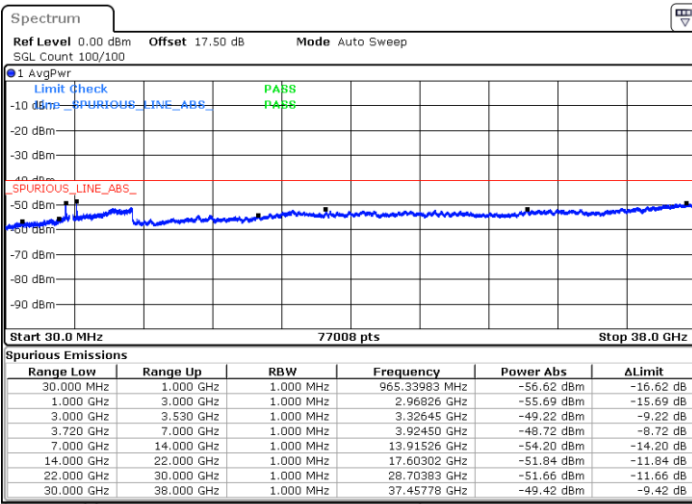


Date: 27.MAY.2020 03:27:12

Date: 27.MAY.2020 03:36:53

Middle Channel / FullIRB

N/A



Date: 27.MAY.2020 03:17:32

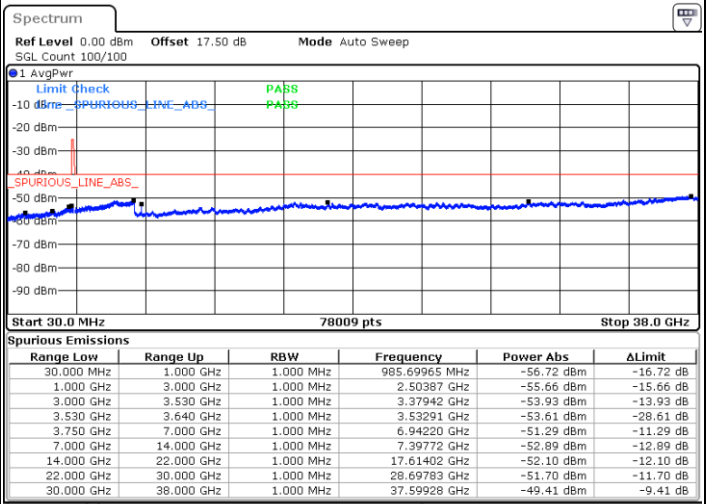
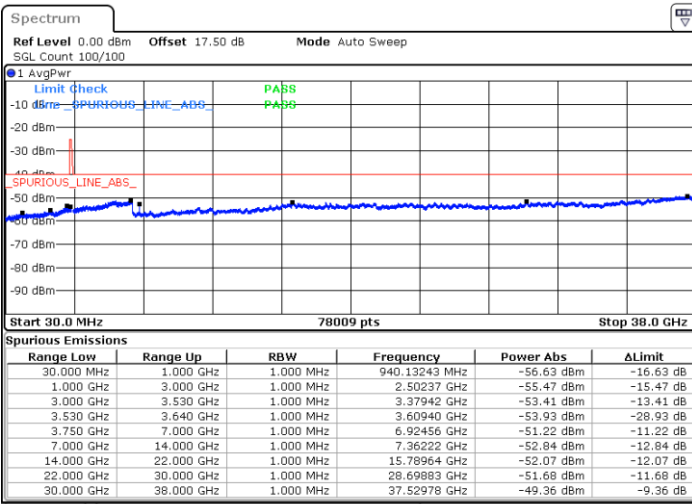


LTE Band 48 / 20MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

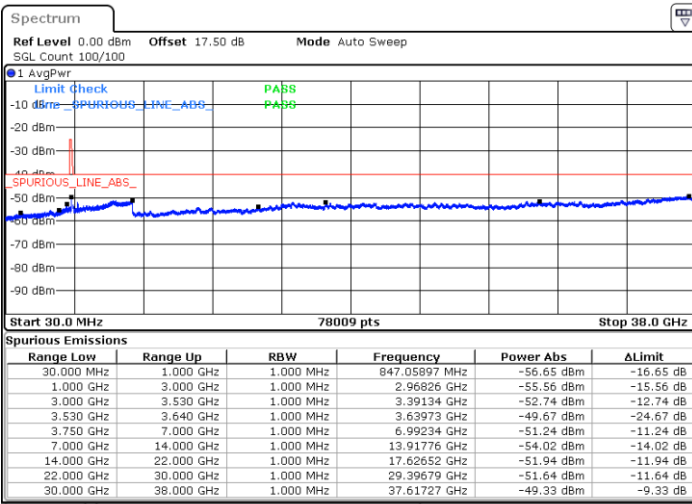


Date: 27.MAY.2020 03:28:17

Date: 27.MAY.2020 03:37:57

Highest Channel / FullIRB

N/A



Date: 27.MAY.2020 03:18:37



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	0.0009	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

- 1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.49 V. ; Maximum Voltage =4.45 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	24.63	29.79	34.90	24.88
Middle CH	24.78	29.85	34.83	24.83
Highest CH	24.68	29.97	34.83	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.03	34.76	39.72	-
Middle CH	30.03	34.97	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	24.68	29.85	34.90	24.73
Middle CH	24.68	29.85	34.76	24.83
Highest CH	24.73	29.79	34.69	24.88
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	29.91	34.90	39.72	-
Middle CH	30.09	34.97	39.80	-
Highest CH	29.97	34.90	39.80	-

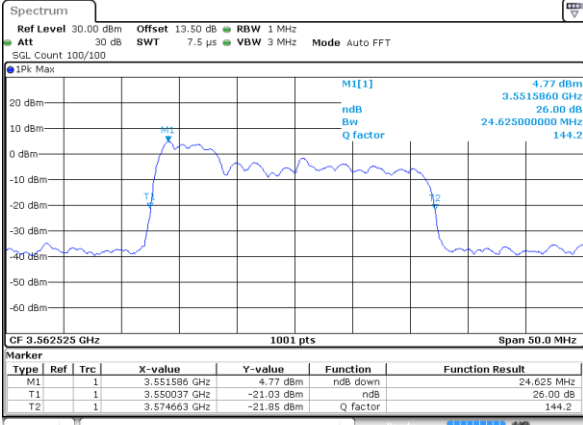
Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	24.48	29.91	34.76	24.83
Middle CH	24.73	29.79	34.76	24.83
29.85	24.58	29.97	34.83	24.83
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	29.85	35.04	39.80	-
Middle CH	29.97	34.97	39.72	-
Highest CH	29.91	34.90	39.64	-



LTE Band 48C

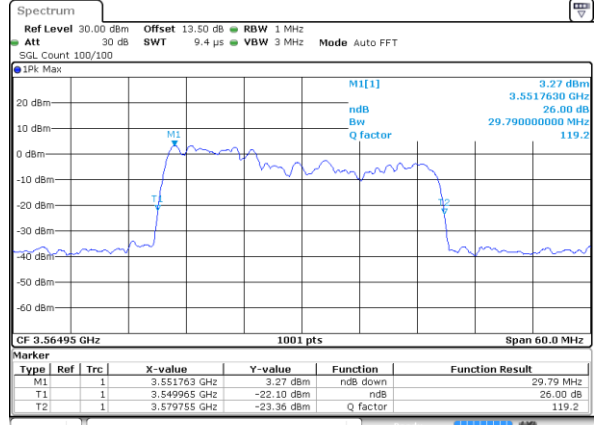
QPSK

Lowest Channel / 5MHz+20MHz



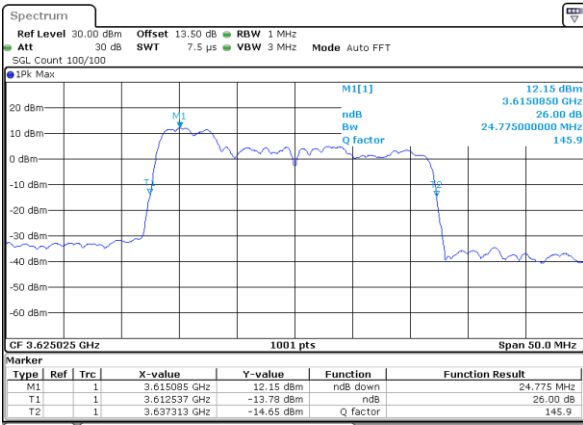
Date: 22 MAY 2020 03:42:24

Lowest Channel / 10MHz+20MHz



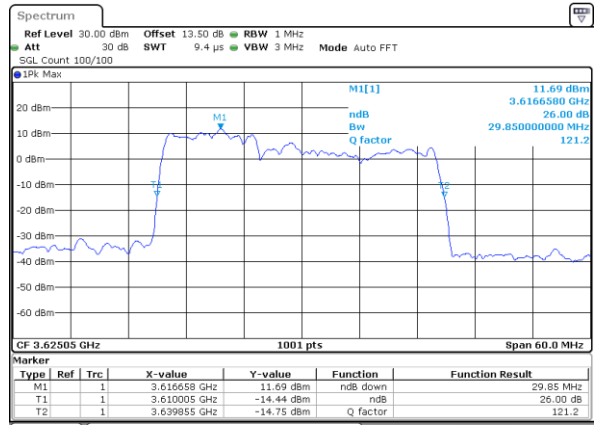
Date: 23 MAY 2020 03:07:21

Middle Channel / 5MHz+20MHz



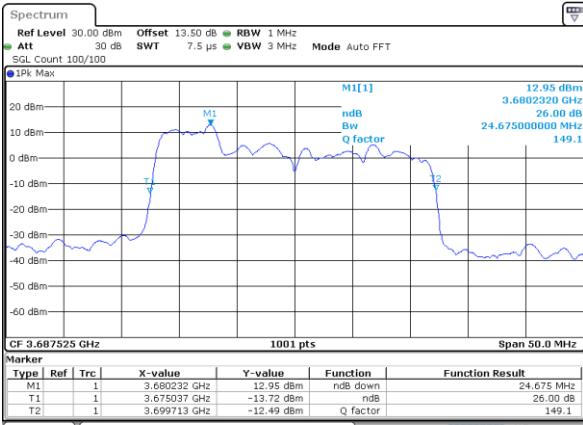
Date: 22 MAY 2020 03:48:53

Middle Channel / 10MHz+20MHz



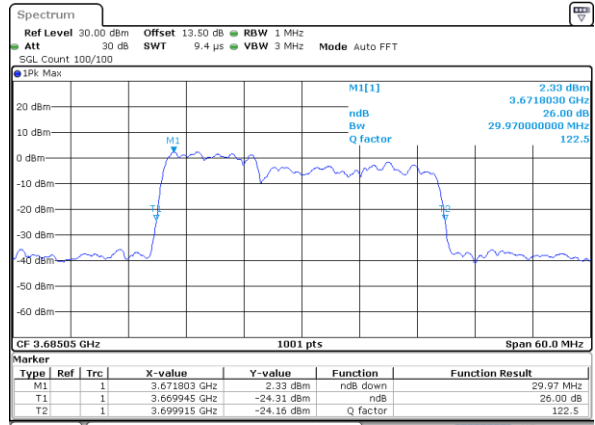
Date: 23 MAY 2020 04:46:14

Highest Channel / 5MHz+20MHz



Date: 22 MAY 2020 05:04:36

Highest Channel / 10MHz+20MHz



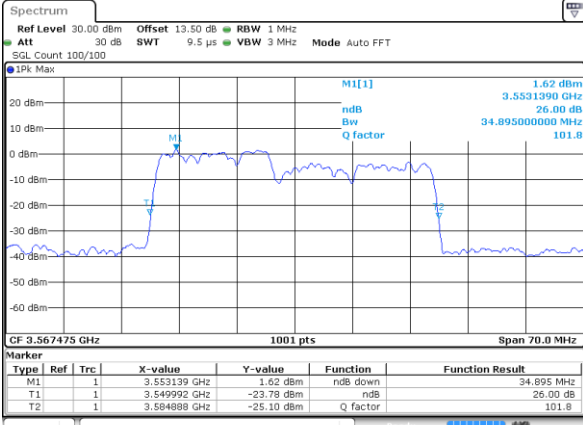
Date: 23 MAY 2020 05:00:44



LTE Band 48C

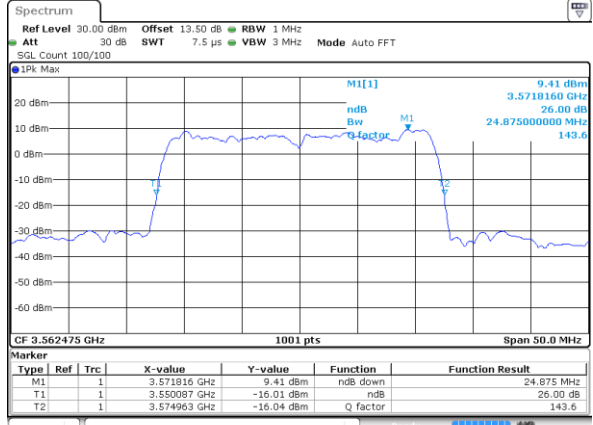
QPSK

Lowest Channel / 15MHz+20MHz



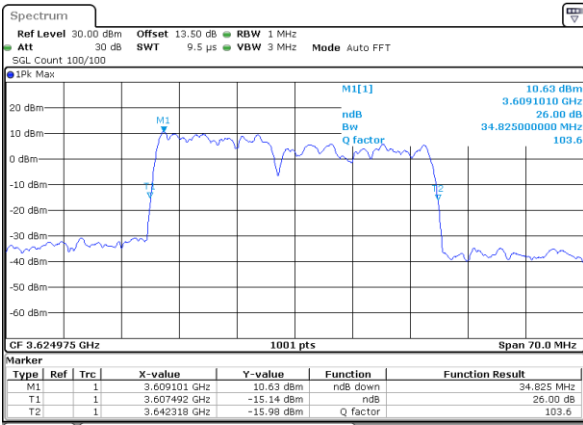
Date: 26 MAY 2020 02:00:52

Lowest Channel / 20MHz+5MHz



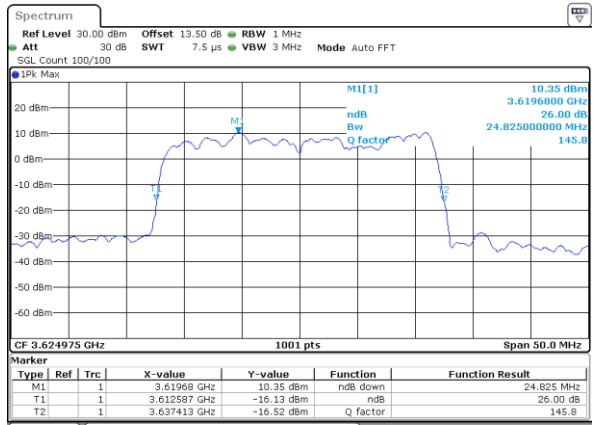
Date: 22 MAY 2020 06:02:03

Middle Channel / 15MHz+20MHz



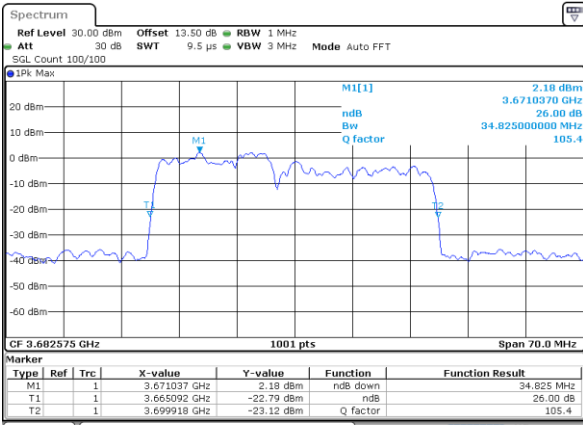
Date: 26 MAY 2020 02:04:40

Middle Channel / 20MHz+5MHz



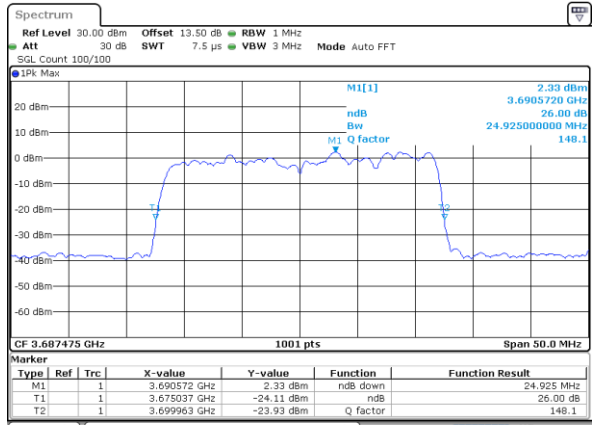
Date: 22 MAY 2020 06:12:07

Highest Channel / 15MHz+20MHz



Date: 26 MAY 2020 04:16:04

Highest Channel / 20MHz+5MHz



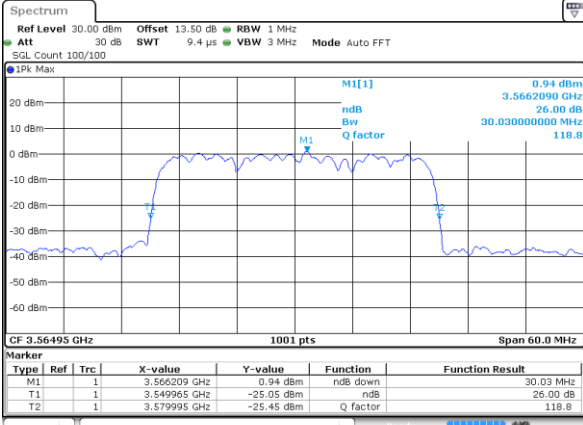
Date: 23 MAY 2020 02:58:52



LTE Band 48C

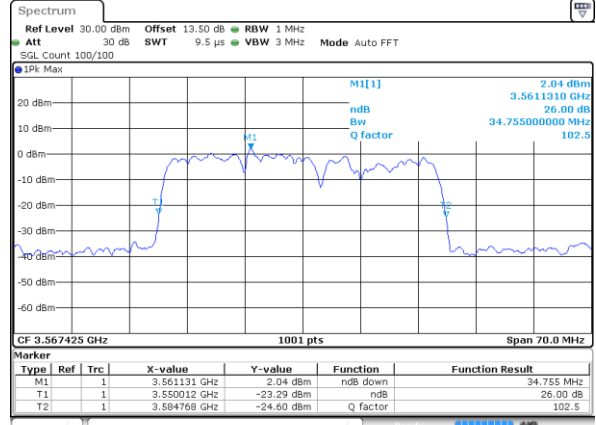
QPSK

Lowest Channel / 20MHz+10MHz



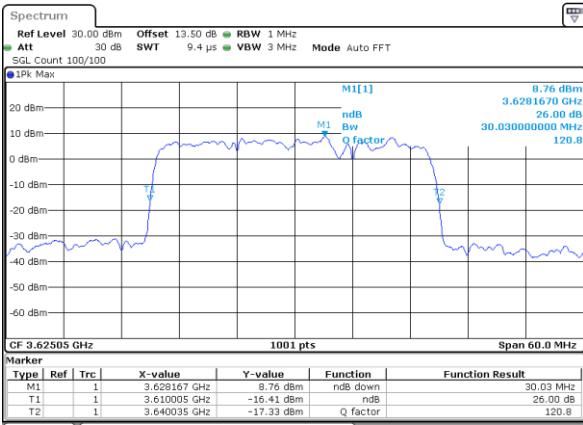
Date: 23 MAY 2020 06:21:06

Lowest Channel / 20MHz+15MHz



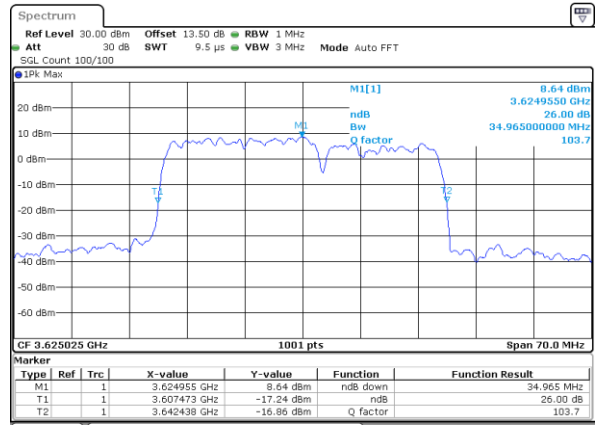
Date: 26 MAY 2020 04:20:50

Middle Channel / 20MHz+10MHz



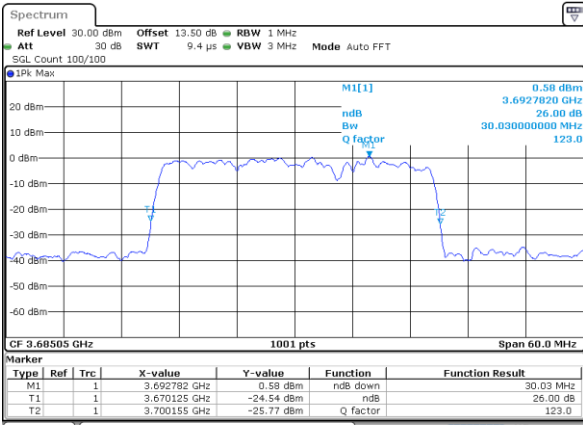
Date: 23 MAY 2020 06:25:14

Middle Channel / 20MHz+15MHz



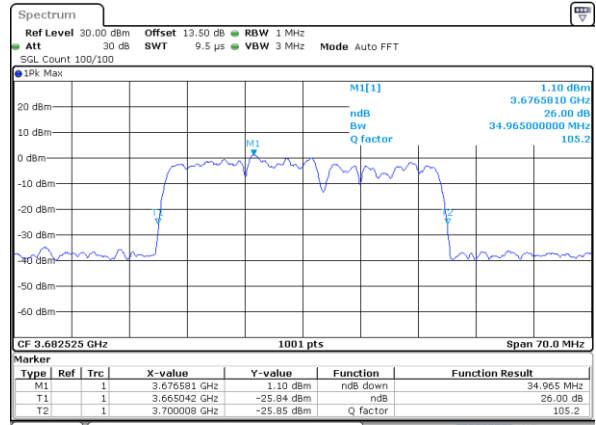
Date: 26 MAY 2020 06:10:21

Highest Channel / 20MHz+10MHz



Date: 23 MAY 2020 07:47:09

Highest Channel / 20MHz+15MHz



Date: 26 MAY 2020 06:17:44

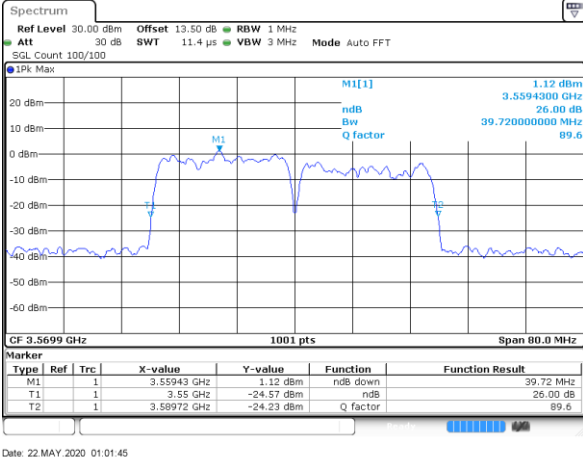


LTE Band 48C

QPSK

Lowest Channel / 20MHz+20MHz

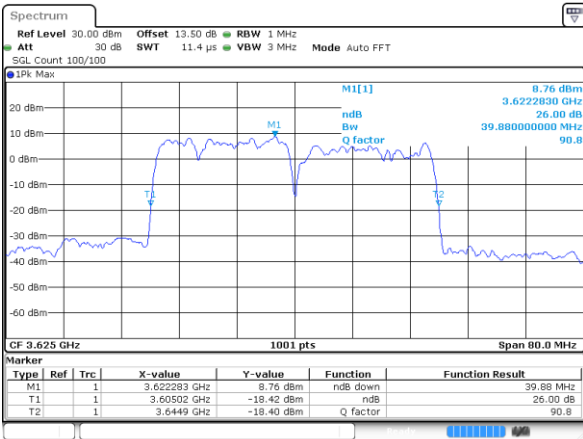
N/A



Date: 22 MAY 2020 01:01:45

Middle Channel / 20MHz+20MHz

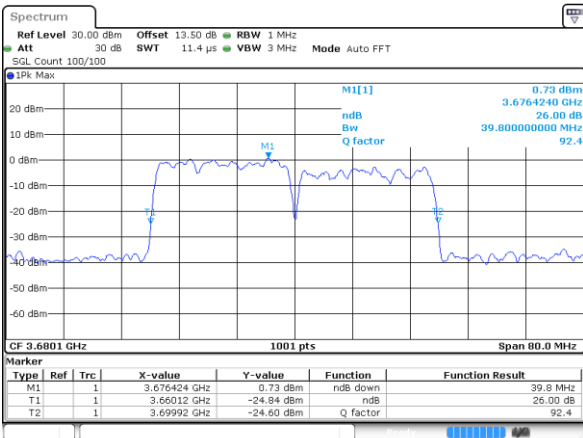
N/A



Date: 22 MAY 2020 01:06:56

Highest Channel / 20MHz+20MHz

N/A



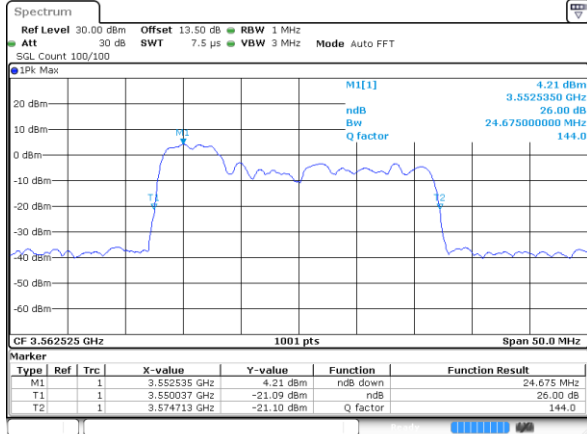
Date: 22 MAY 2020 02:45:43



LTE Band 48C

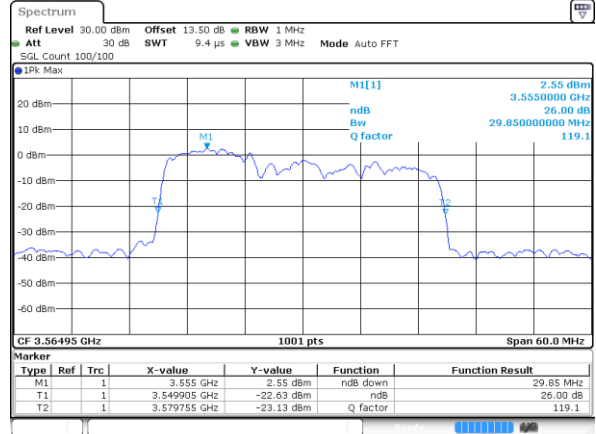
16QAM

Lowest Channel / 5MHz+20MHz



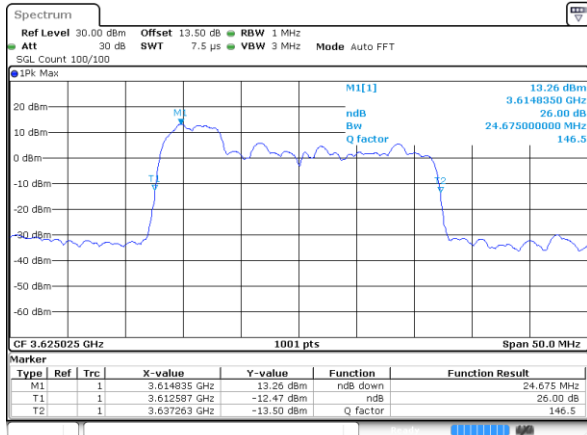
Date: 22 MAY 2020 03:42:01

Lowest Channel / 10MHz+20MHz



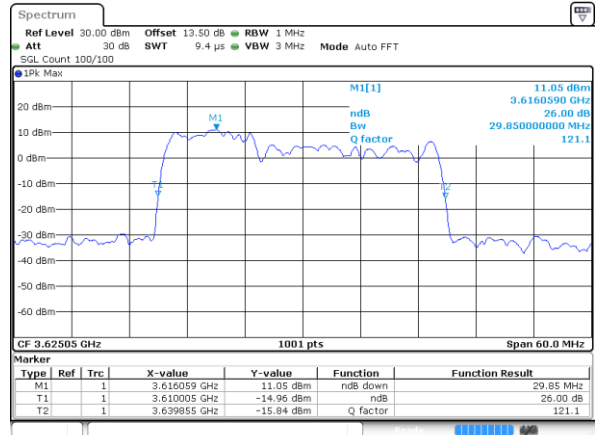
Date: 23 MAY 2020 03:06:58

Middle Channel / 5MHz+20MHz



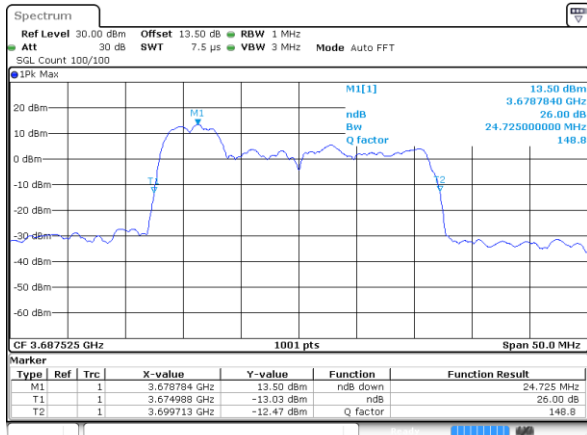
Date: 22 MAY 2020 03:48:31

Middle Channel / 10MHz+20MHz



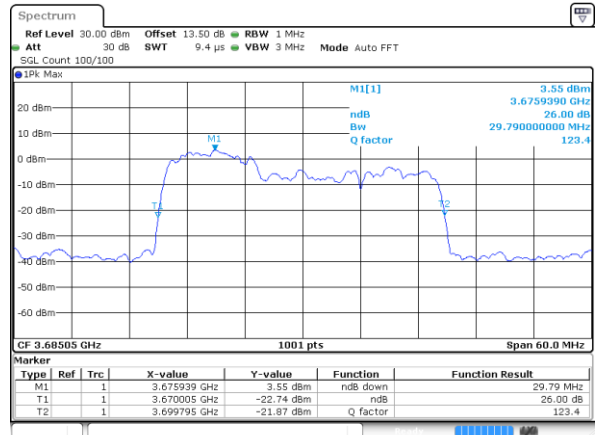
Date: 23 MAY 2020 04:45:51

Highest Channel / 5MHz+20MHz



Date: 22 MAY 2020 05:04:59

Highest Channel / 10MHz+20MHz



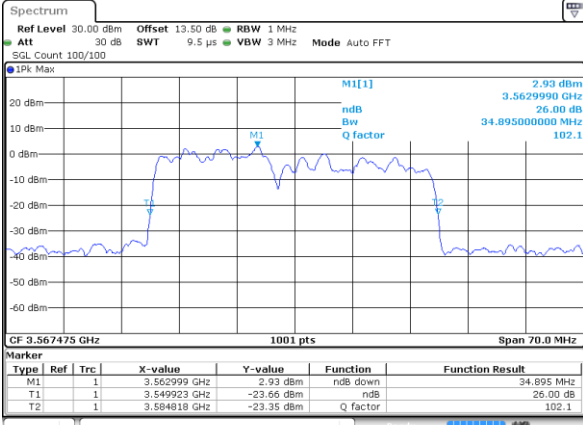
Date: 23 MAY 2020 05:01:08



LTE Band 48C

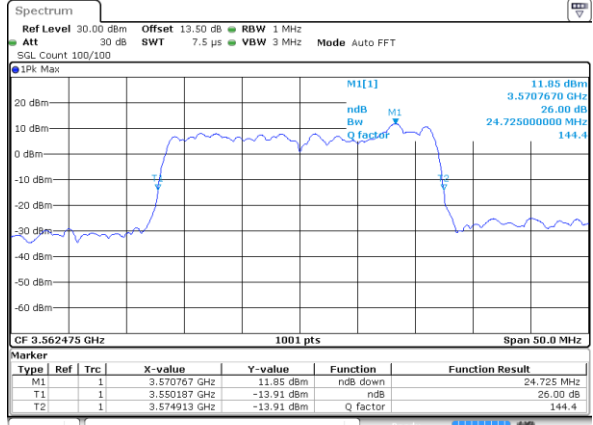
16QAM

Lowest Channel / 15MHz+20MHz



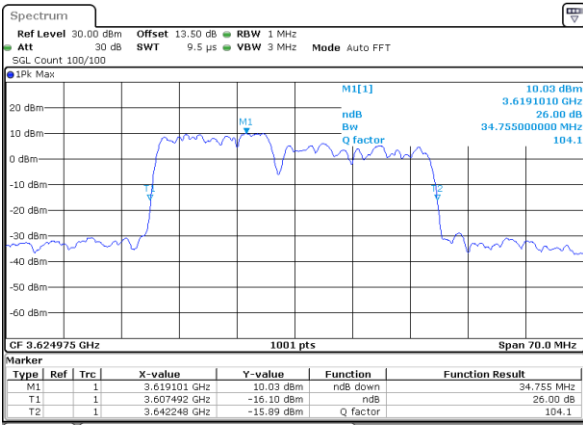
Date: 26 MAY 2020 02:00:29

Lowest Channel / 20MHz+5MHz



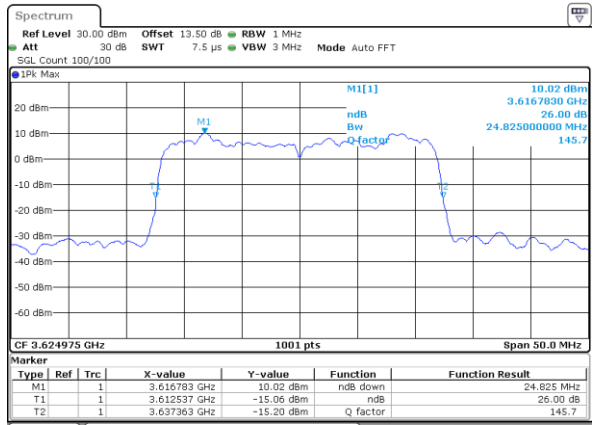
Date: 22 MAY 2020 06:01:40

Middle Channel / 15MHz+20MHz



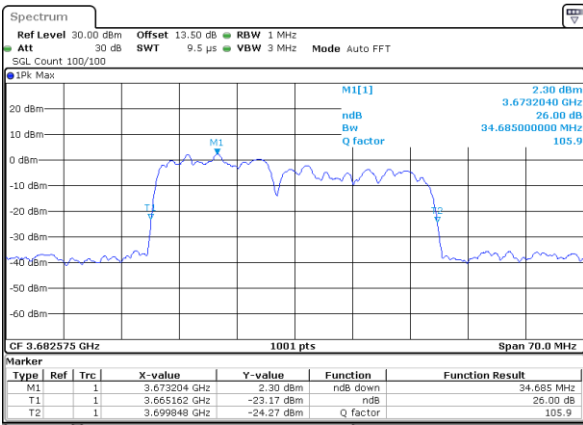
Date: 26 MAY 2020 02:04:17

Middle Channel / 20MHz+5MHz



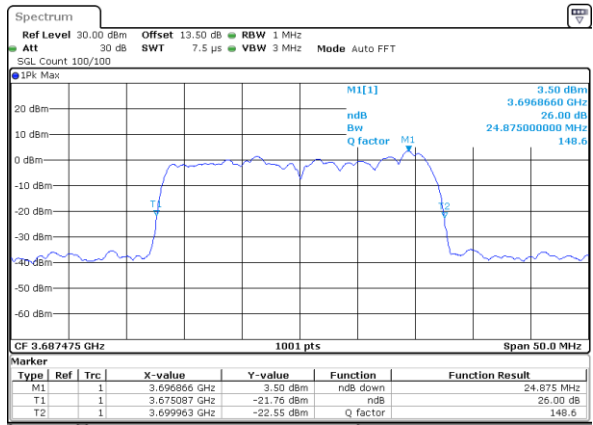
Date: 22 MAY 2020 06:11:45

Highest Channel / 15MHz+20MHz



Date: 26 MAY 2020 04:18:27

Highest Channel / 20MHz+5MHz



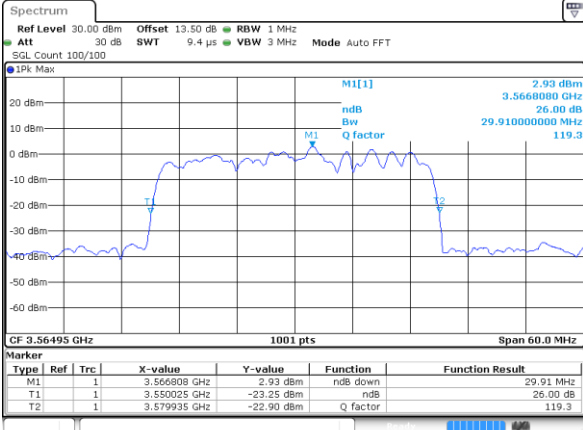
Date: 23 MAY 2020 02:59:15



LTE Band 48C

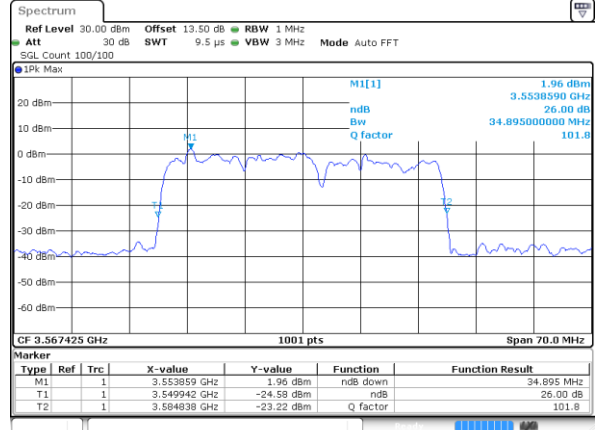
16QAM

Lowest Channel / 20MHz+10MHz



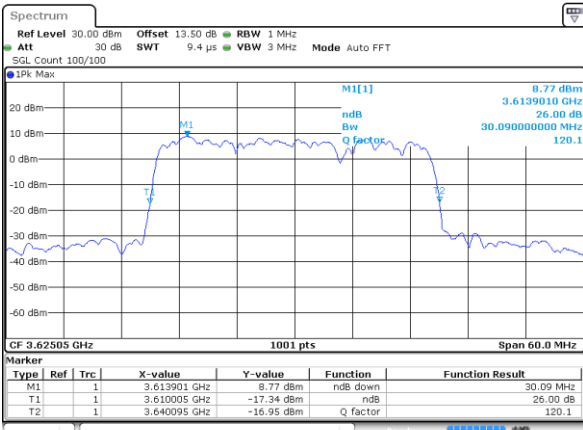
Date: 23 MAY 2020 06:20:43

Lowest Channel / 20MHz+15MHz



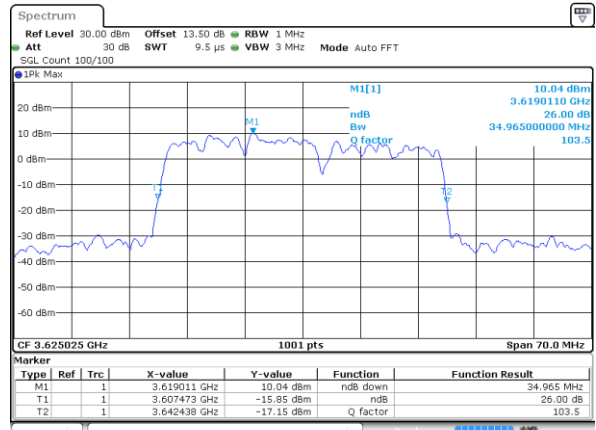
Date: 26 MAY 2020 04:20:26

Middle Channel / 20MHz+10MHz



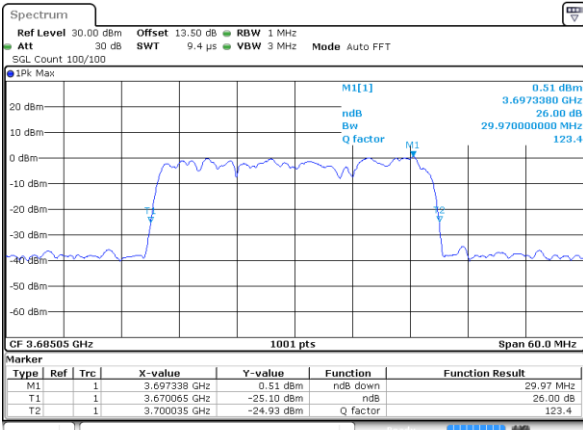
Date: 23 MAY 2020 06:24:51

Middle Channel / 20MHz+15MHz



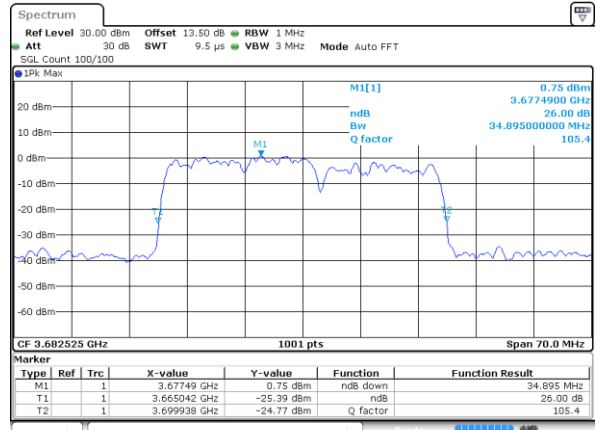
Date: 26 MAY 2020 06:09:58

Highest Channel / 20MHz+10MHz



Date: 23 MAY 2020 07:47:32

Highest Channel / 20MHz+15MHz



Date: 26 MAY 2020 06:18:08

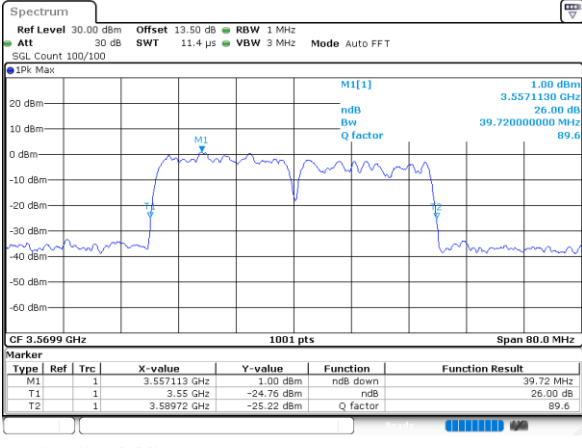


LTE Band 48C

16QAM

Lowest Channel / 20MHz+20MHz

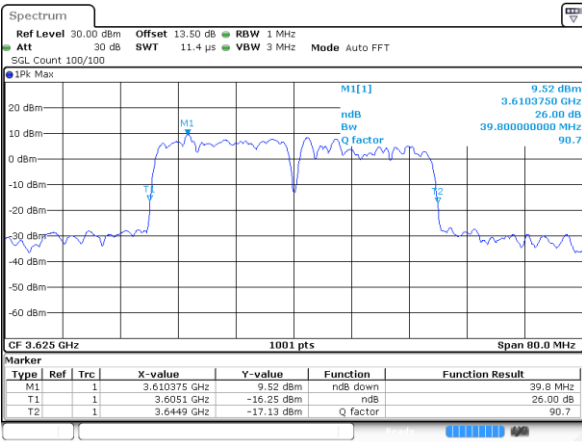
N/A



Date: 28 JUL 2020 15:47:59

Middle Channel / 20MHz+20MHz

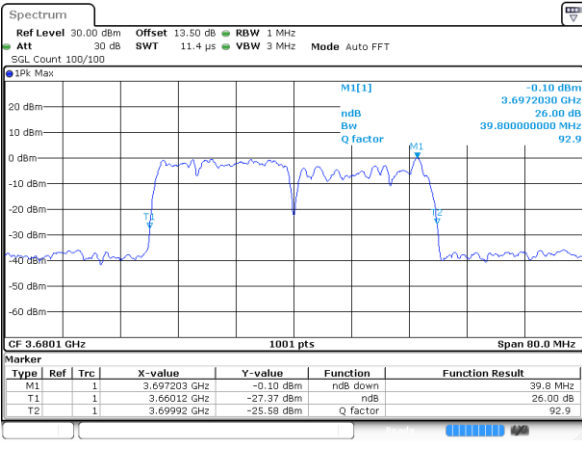
N/A



Date: 22 MAY 2020 01:06:34

Highest Channel / 20MHz+20MHz

N/A



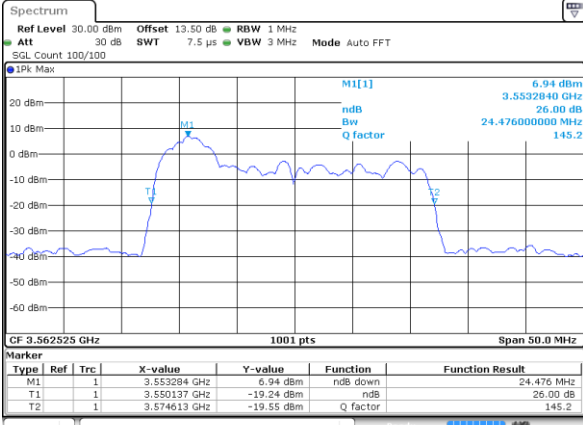
Date: 22 MAY 2020 02:46:06



LTE Band 48C

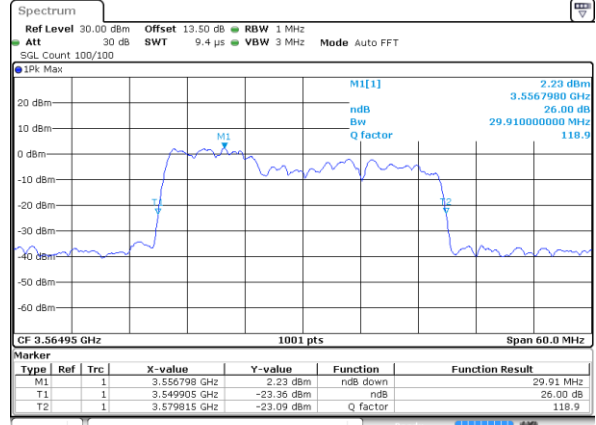
64QAM

Lowest Channel / 5MHz+20MHz



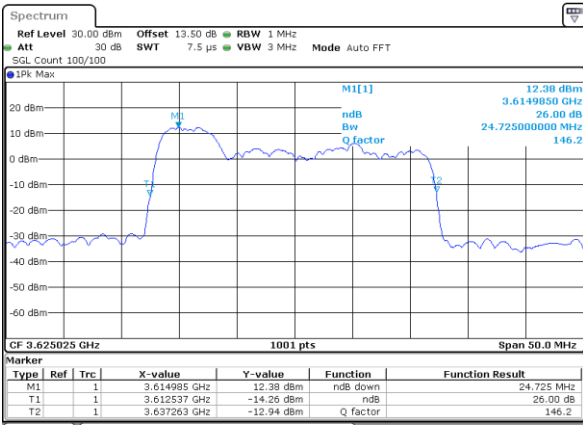
Date: 22 MAY 2020 03:41:39

Lowest Channel / 10MHz+20MHz



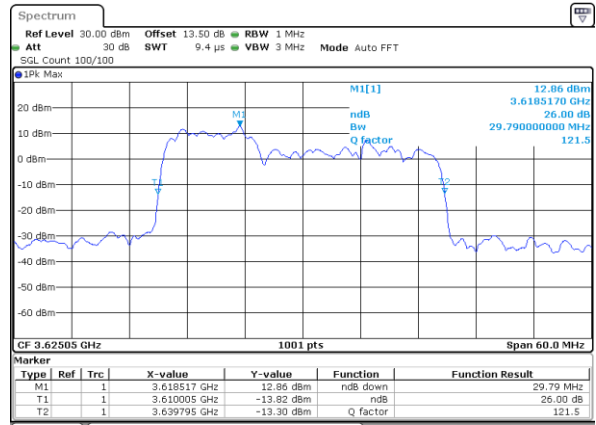
Date: 23 MAY 2020 03:06:34

Middle Channel / 5MHz+20MHz



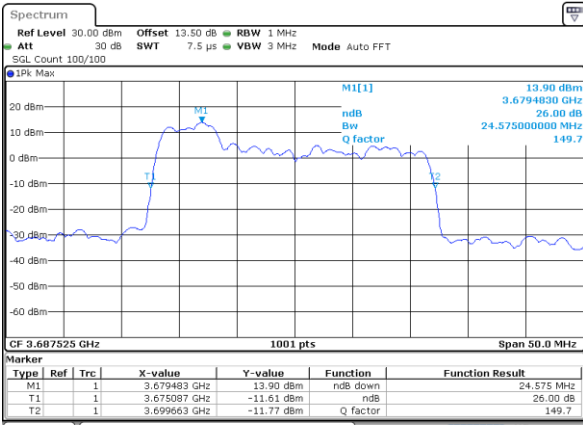
Date: 22 MAY 2020 03:48:08

Middle Channel / 10MHz+20MHz



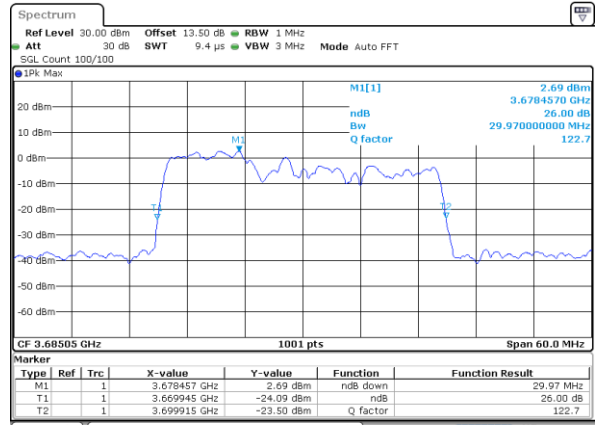
Date: 23 MAY 2020 04:45:27

Highest Channel / 5MHz+20MHz



Date: 22 MAY 2020 05:05:21

Highest Channel / 10MHz+20MHz



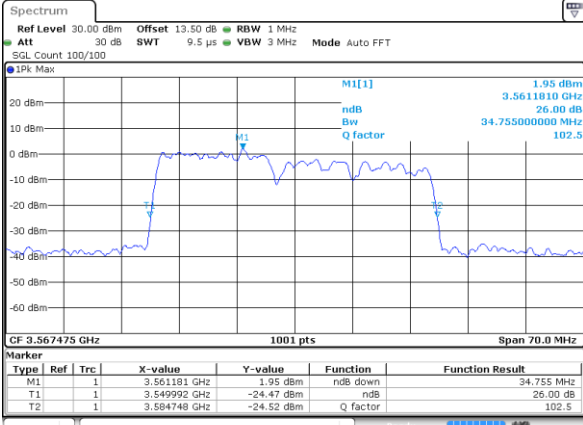
Date: 23 MAY 2020 05:01:31



LTE Band 48C

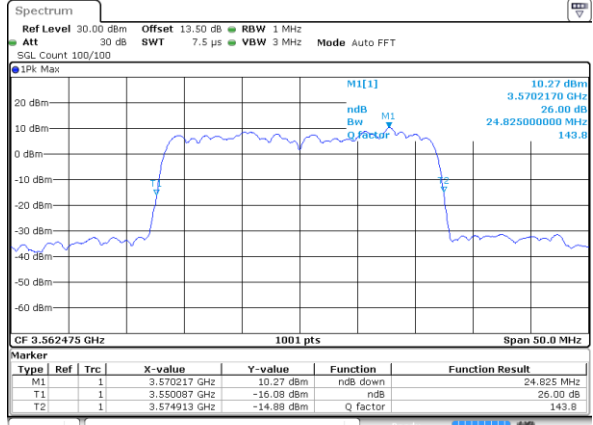
64QAM

Lowest Channel / 15MHz+20MHz



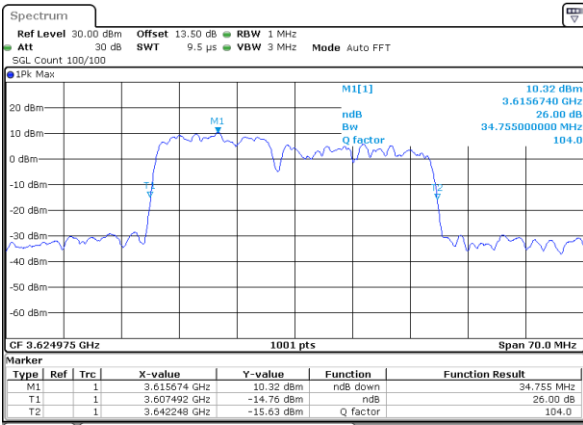
Date: 26 MAY 2020 02:00:06

Lowest Channel / 20MHz+5MHz



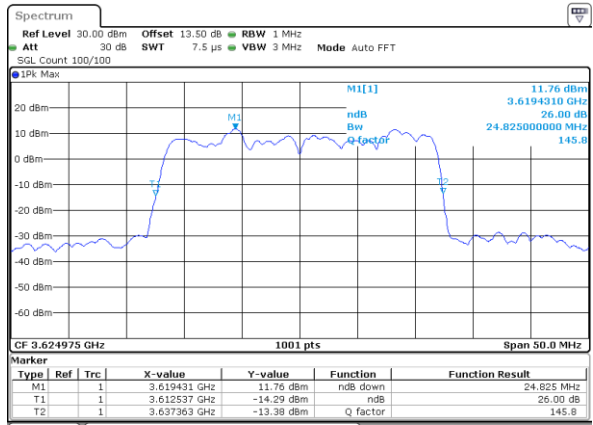
Date: 22 MAY 2020 06:01:18

Middle Channel / 15MHz+20MHz



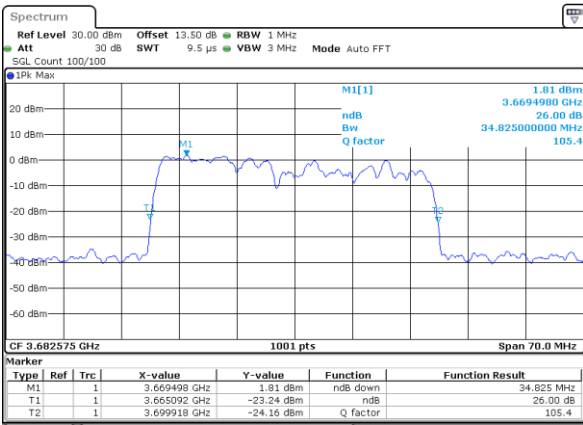
Date: 26 MAY 2020 02:03:53

Middle Channel / 20MHz+5MHz



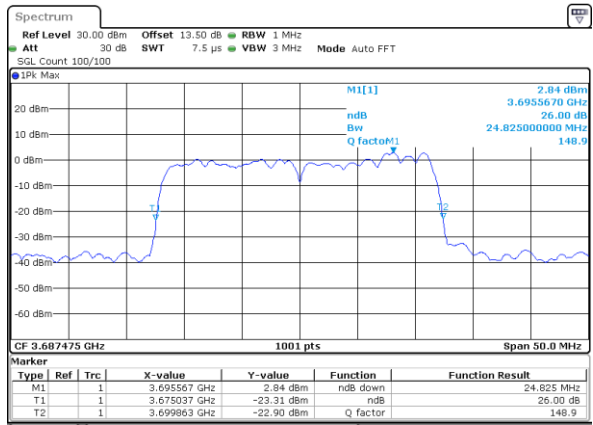
Date: 22 MAY 2020 06:11:22

Highest Channel / 15MHz+20MHz



Date: 26 MAY 2020 04:16:51

Highest Channel / 20MHz+5MHz



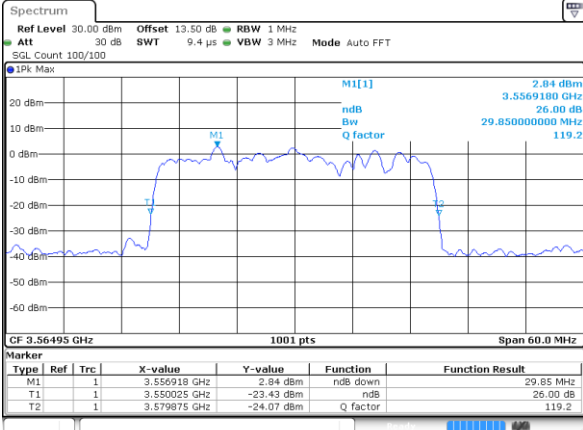
Date: 23 MAY 2020 02:59:39



LTE Band 48C

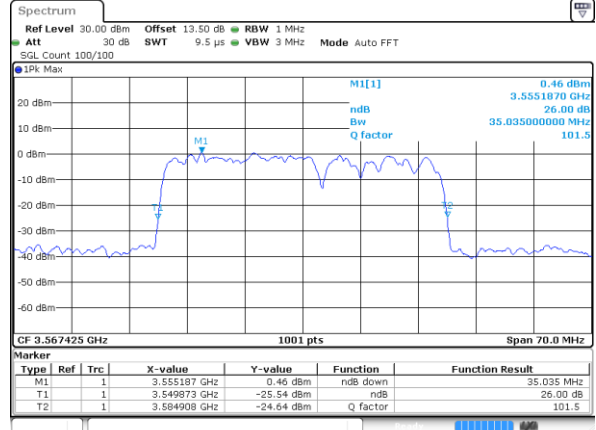
64QAM

Lowest Channel / 20MHz+10MHz



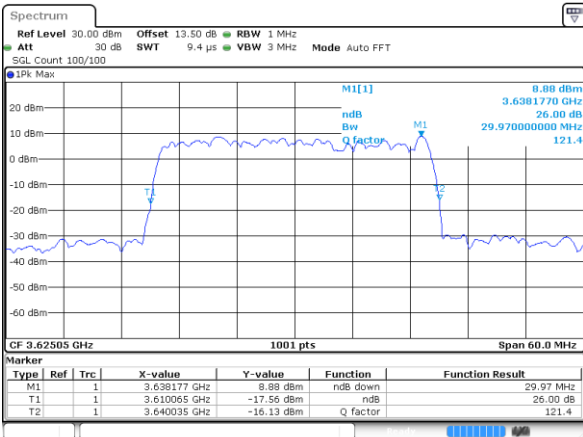
Date: 23 MAY 2020 06:20:19

Lowest Channel / 20MHz+15MHz



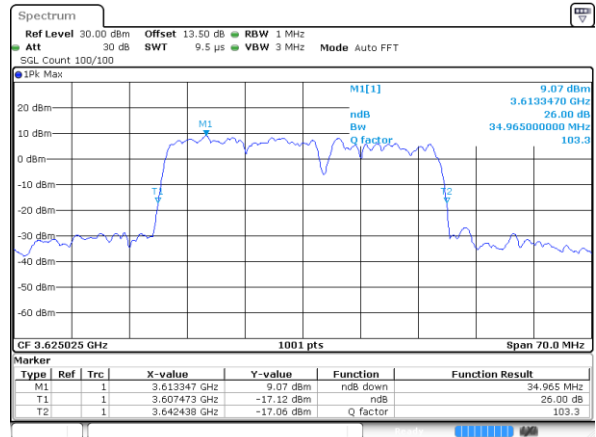
Date: 26 MAY 2020 04:20:03

Middle Channel / 20MHz+10MHz



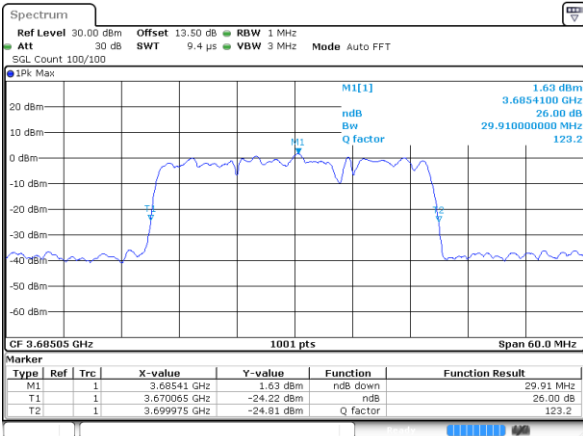
Date: 23 MAY 2020 06:24:28

Middle Channel / 20MHz+15MHz



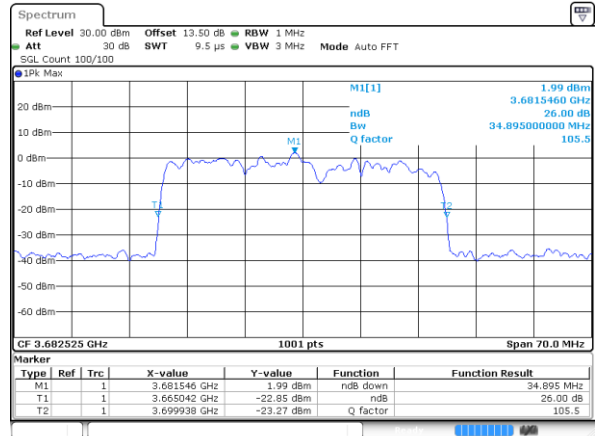
Date: 26 MAY 2020 06:09:34

Highest Channel / 20MHz+10MHz



Date: 23 MAY 2020 07:47:56

Highest Channel / 20MHz+15MHz



Date: 26 MAY 2020 06:18:31

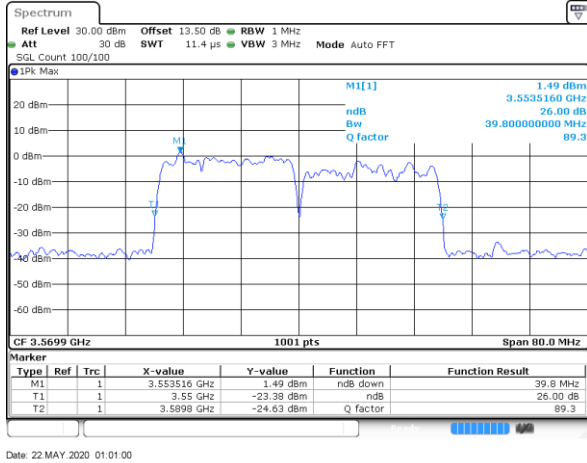


LTE Band 48C

64QAM

Lowest Channel / 20MHz+20MHz

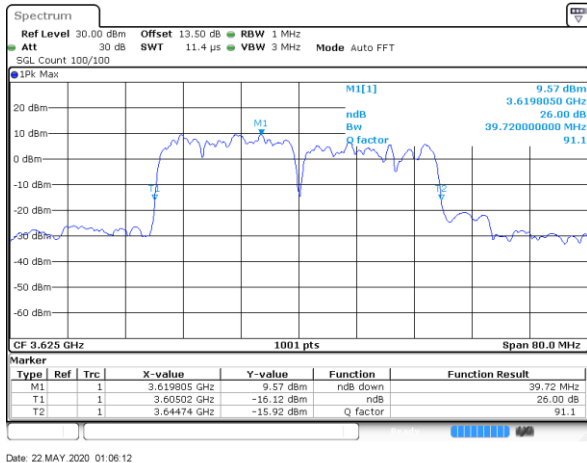
N/A



Date: 22 MAY 2020 01:01:00

Middle Channel / 20MHz+20MHz

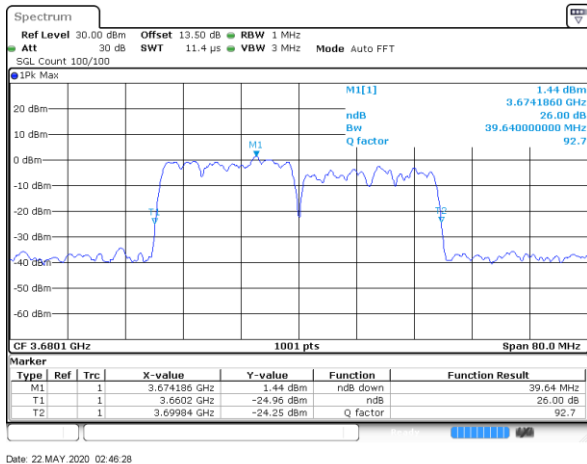
N/A



Date: 22 MAY 2020 01:06:12

Highest Channel / 20MHz+20MHz

N/A



Date: 22 MAY 2020 02:48:28



Occupied Bandwidth

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	23.18	27.87	32.66	23.08
Middle CH	22.88	27.21	32.73	23.18
Highest CH	23.28	27.93	33.01	23.13
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.99	33.01	37.72	-
Middle CH	28.41	32.87	37.64	-
Highest CH	28.17	32.94	37.64	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	22.98	27.99	32.73	23.23
Middle CH	22.88	27.93	32.66	23.33
Highest CH	22.93	28.11	32.94	23.48
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.87	32.94	37.56	-
Middle CH	27.99	32.87	37.48	-
Highest CH	27.87	32.73	37.96	-

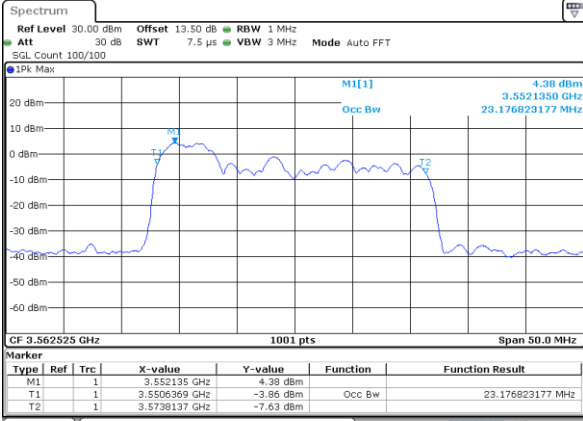
Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	23.08	28.05	32.87	22.98
Middle CH	23.18	28.17	32.45	23.23
Highest CH	22.88	27.81	32.80	22.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.99	32.80	37.96	-
Middle CH	28.17	33.01	37.72	-
Highest CH	27.99	32.87	37.56	-



LTE Band 48C

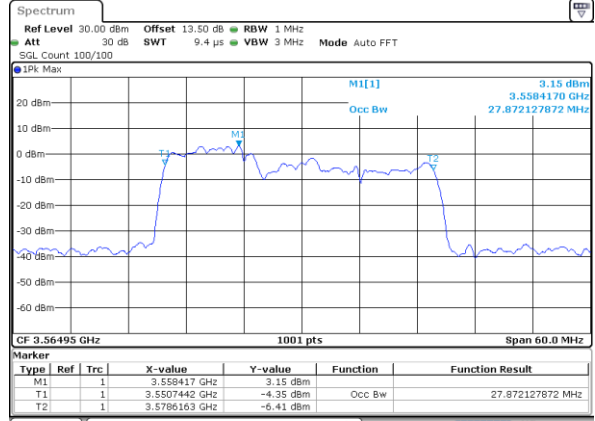
QPSK

Lowest Channel / 5MHz+20MHz



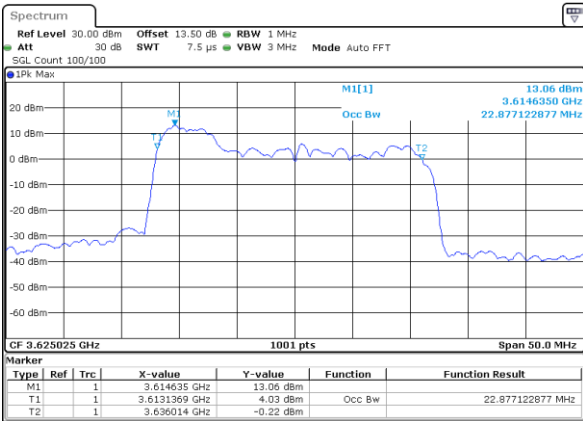
Date: 22 MAY 2020 03:40:32

Lowest Channel / 10MHz+20MHz



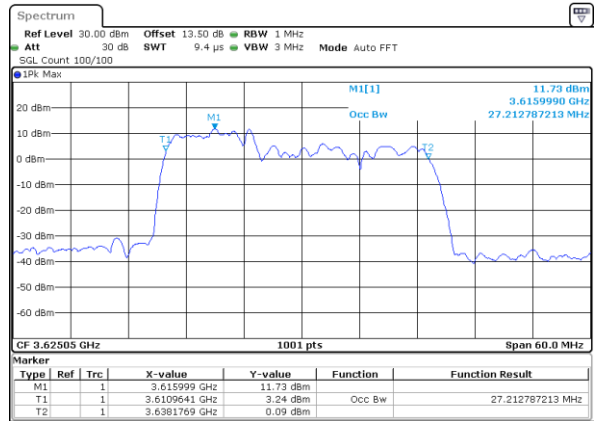
Date: 23 MAY 2020 03:05:25

Middle Channel / 5MHz+20MHz



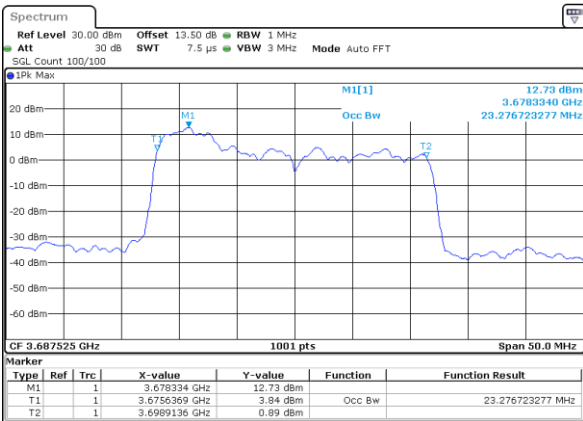
Date: 22 MAY 2020 03:47:01

Middle Channel / 10MHz+20MHz



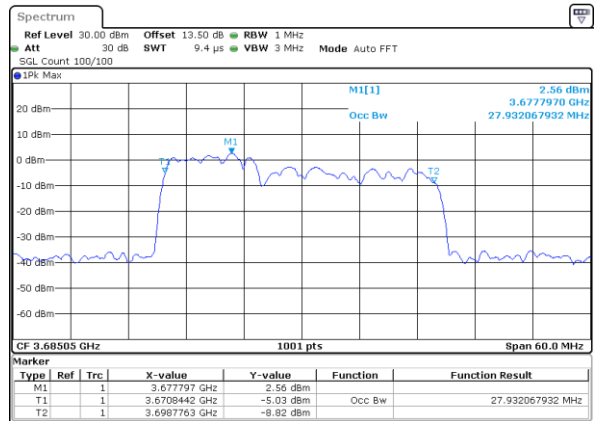
Date: 23 MAY 2020 04:44:18

Highest Channel / 5MHz+20MHz



Date: 22 MAY 2020 05:04:14

Highest Channel / 10MHz+20MHz



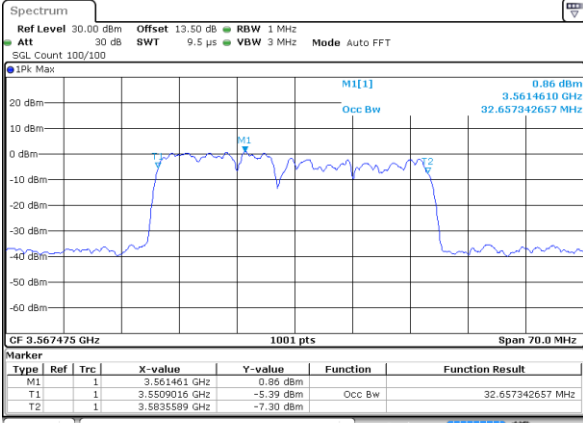
Date: 23 MAY 2020 05:00:22



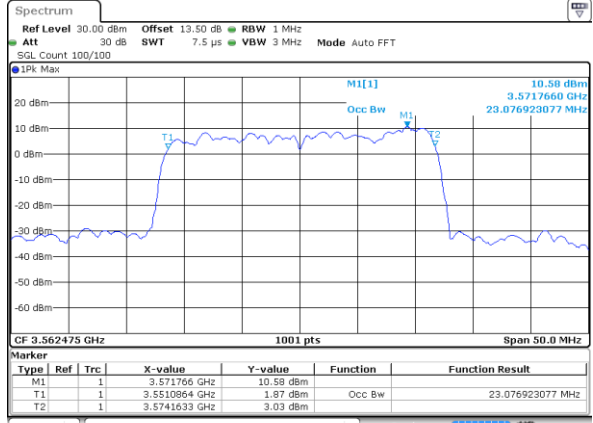
LTE Band 48C

QPSK

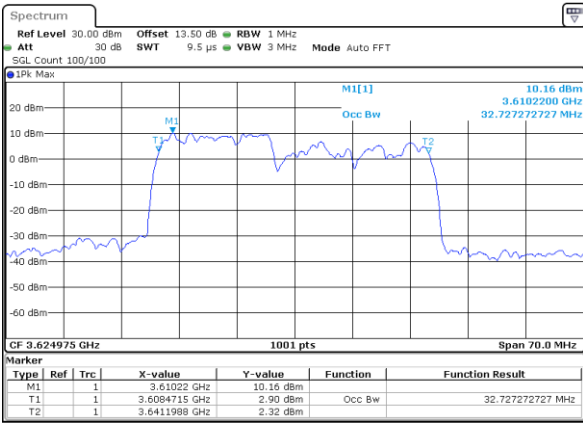
Lowest Channel / 15MHz+20MHz



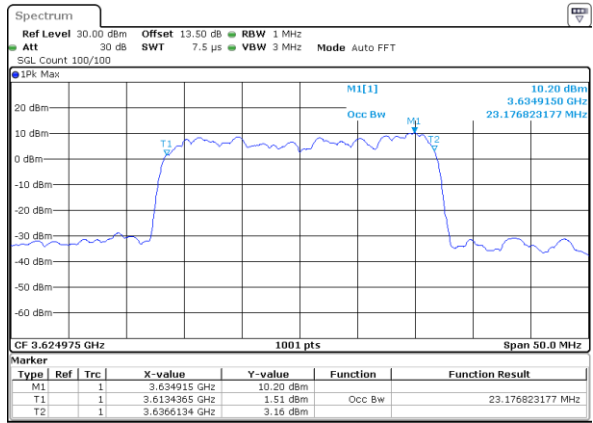
Lowest Channel / 20MHz+5MHz



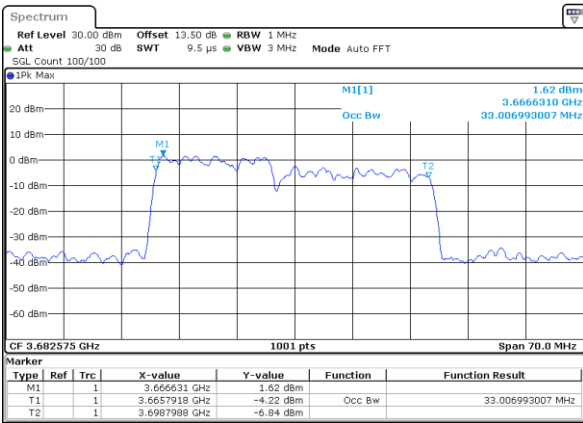
Middle Channel / 15MHz+20MHz



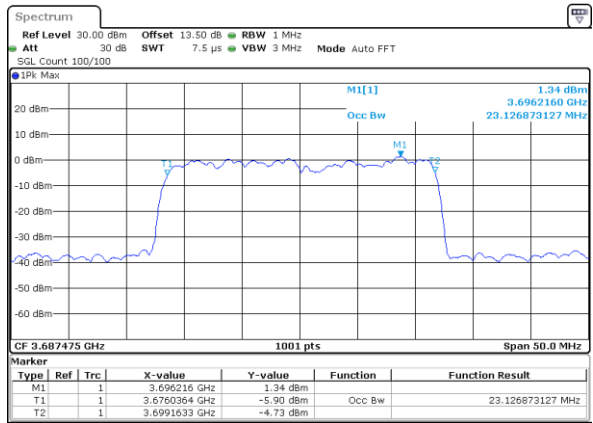
Middle Channel / 20MHz+5MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+5MHz

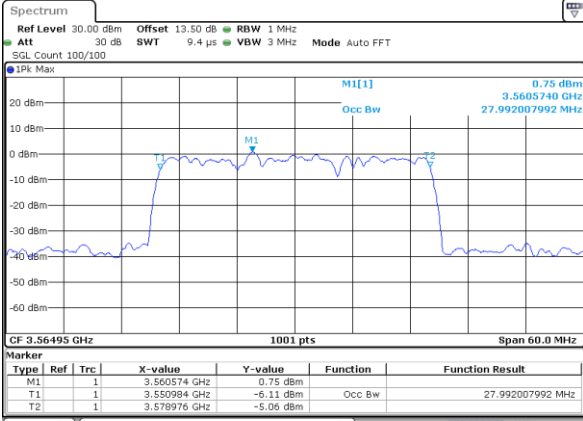




LTE Band 48C

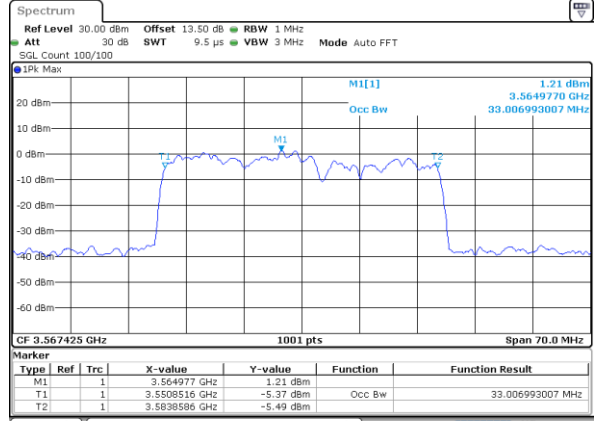
QPSK

Lowest Channel / 20MHz+10MHz



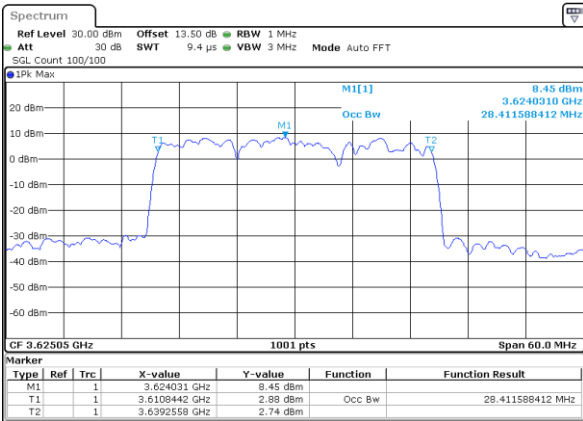
Date: 23 MAY 2020 06:19:10

Lowest Channel / 20MHz+15MHz



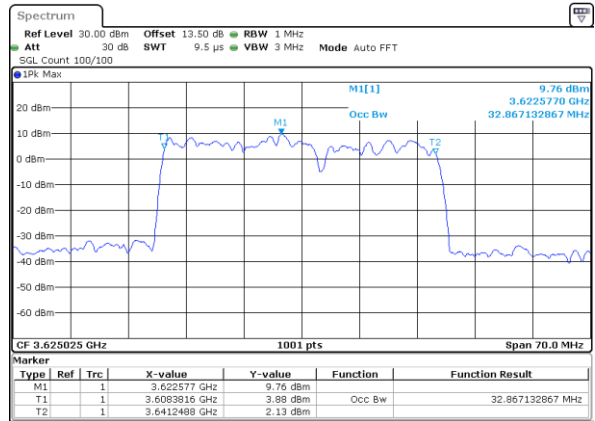
Date: 26 MAY 2020 04:18:54

Middle Channel / 20MHz+10MHz



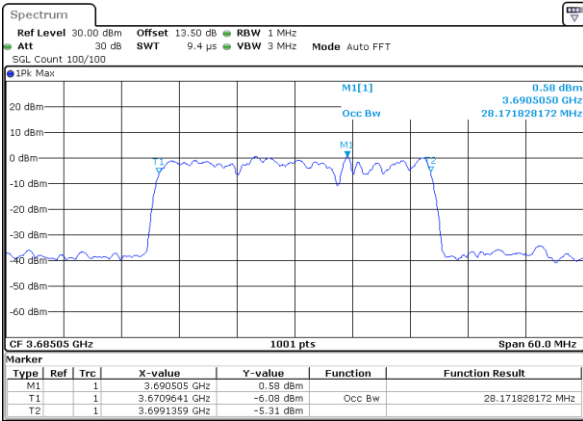
Date: 23 MAY 2020 06:23:18

Middle Channel / 20MHz+15MHz



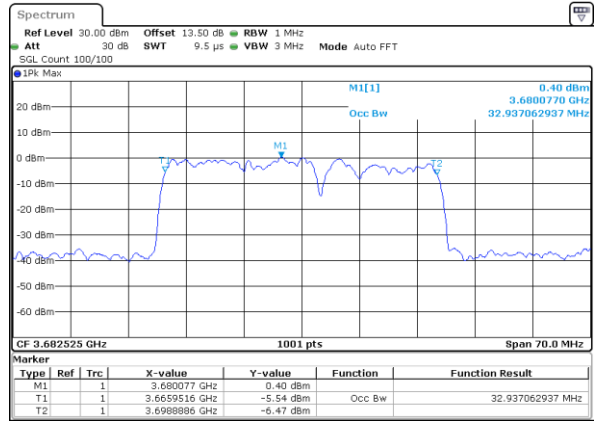
Date: 26 MAY 2020 06:08:25

Highest Channel / 20MHz+10MHz



Date: 23 MAY 2020 07:46:47

Highest Channel / 20MHz+15MHz



Date: 26 MAY 2020 06:17:22

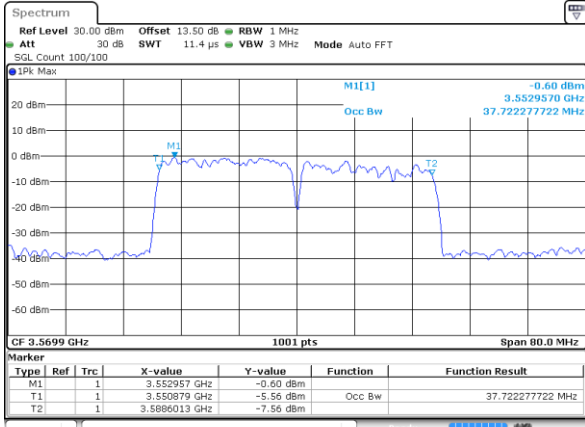


LTE Band 48C

QPSK

Lowest Channel / 20MHz+20MHz

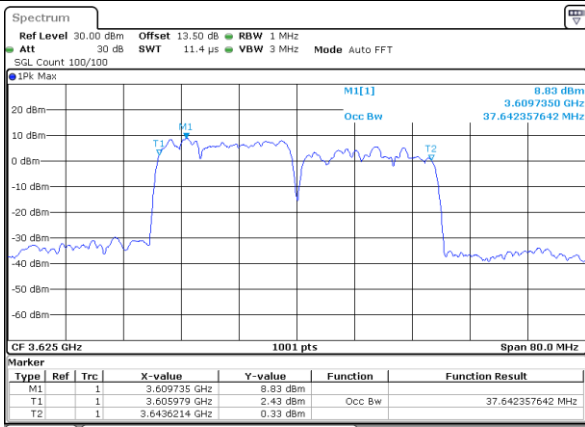
N/A



Date: 22 MAY 2020 00:59:53

Middle Channel / 20MHz+20MHz

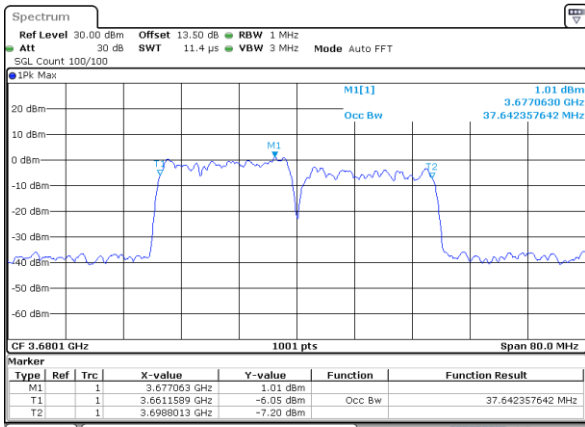
N/A



Date: 22 MAY 2020 01:05:04

Highest Channel / 20MHz+20MHz

N/A



Date: 22 MAY 2020 02:45:21