

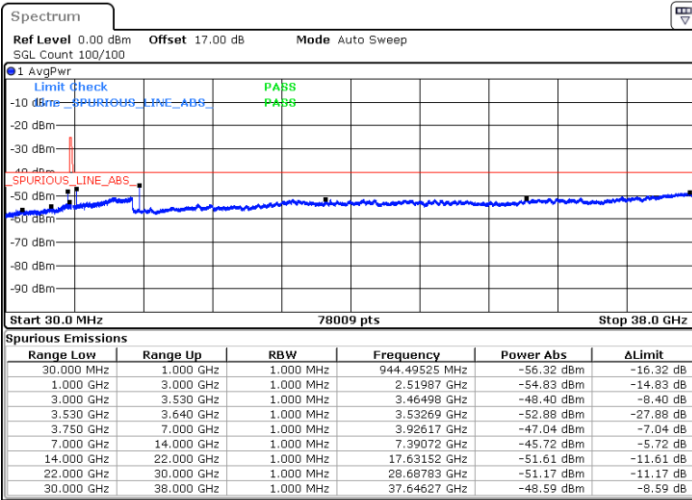


LTE Band 48 / 5MHz

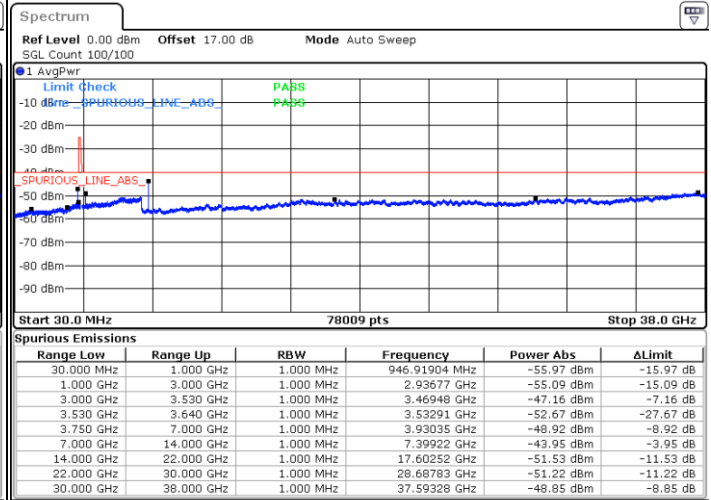
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



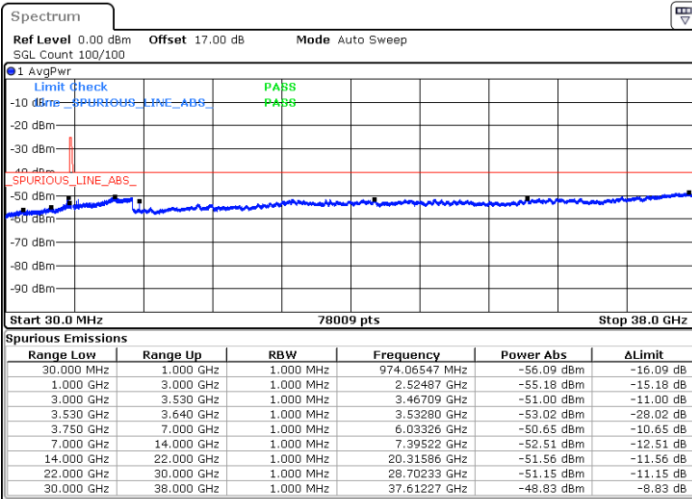
Date: 14.JUL.2020 21:42:07



Date: 14.JUL.2020 22:01:29

Highest Channel / FullIRB

N/A



Date: 14.JUL.2020 21:51:48

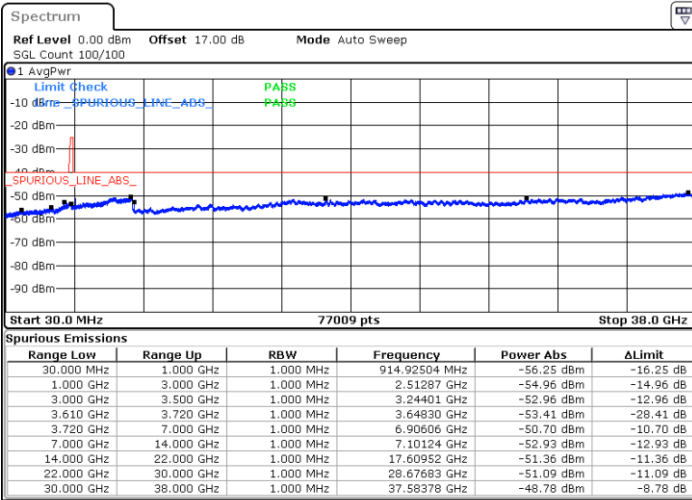


LTE Band 48 / 10MHz

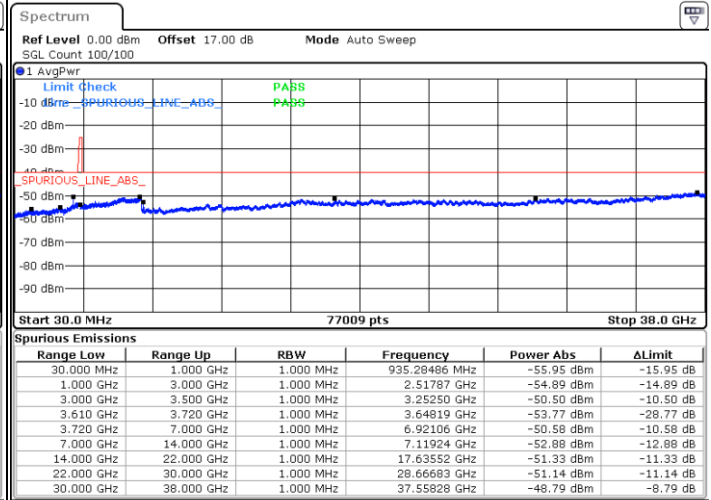
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



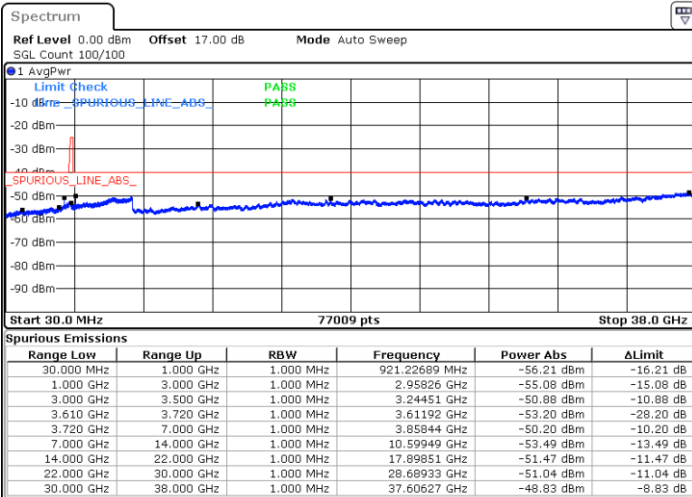
Date: 14.JUL.2020 22:02:34



Date: 14.JUL.2020 22:21:56

Lowest Channel / FullIRB

N/A



Date: 14.JUL.2020 22:12:15

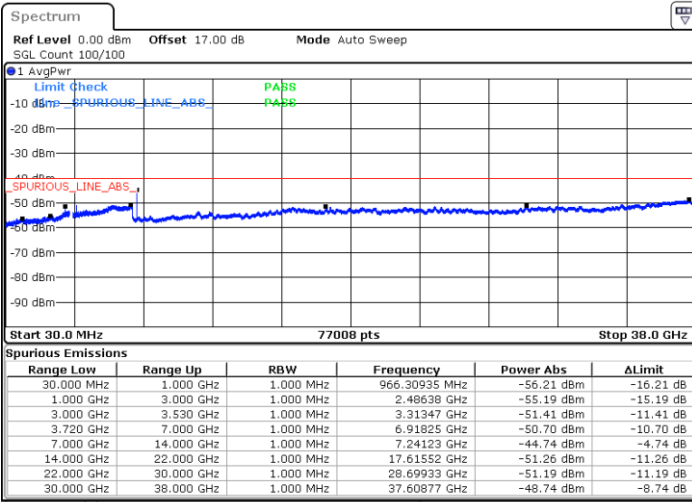


LTE Band 48 / 10MHz

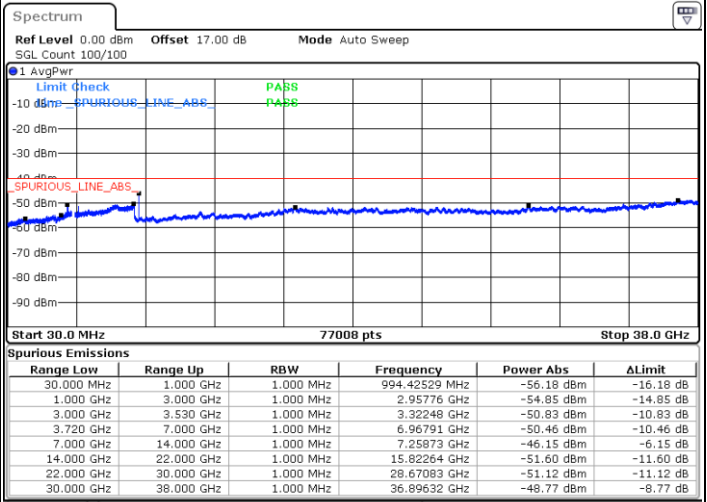
64QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



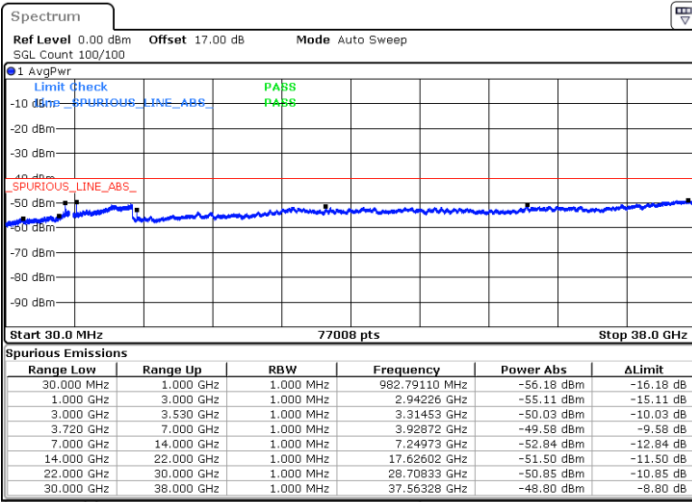
Date: 14.JUL.2020 22:07:56



Date: 14.JUL.2020 22:27:18

Middle Channel / FullIRB

N/A



Date: 14.JUL.2020 22:17:37

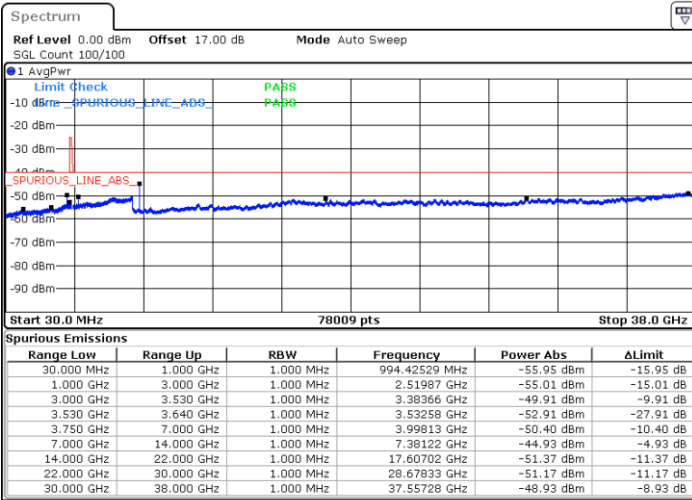


LTE Band 48 / 10MHz

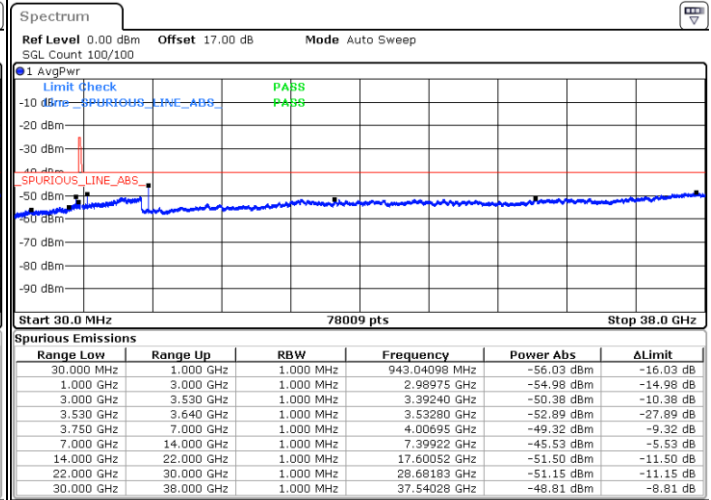
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



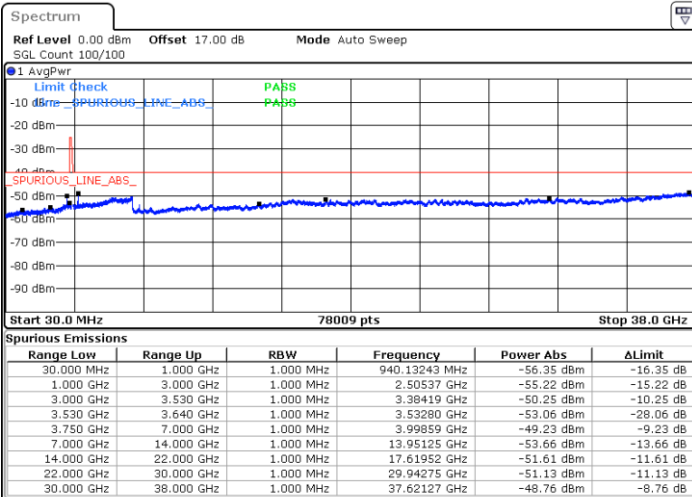
Date: 14.JUL.2020 22:09:01



Date: 14.JUL.2020 22:28:22

Highest Channel / FullIRB

N/A



Date: 14.JUL.2020 22:18:42

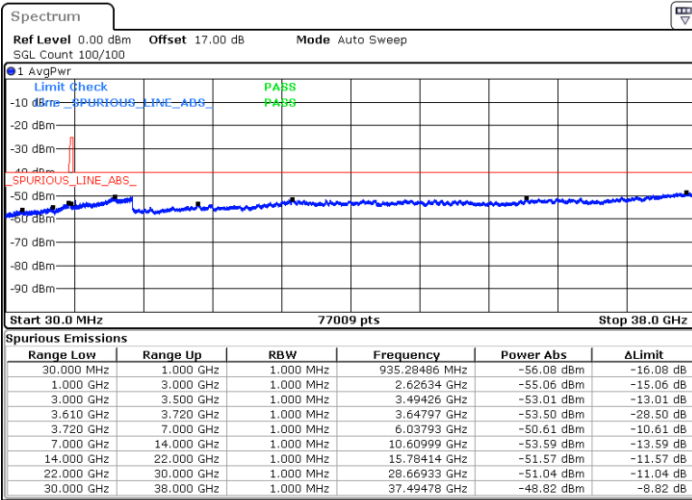


LTE Band 48 / 15MHz

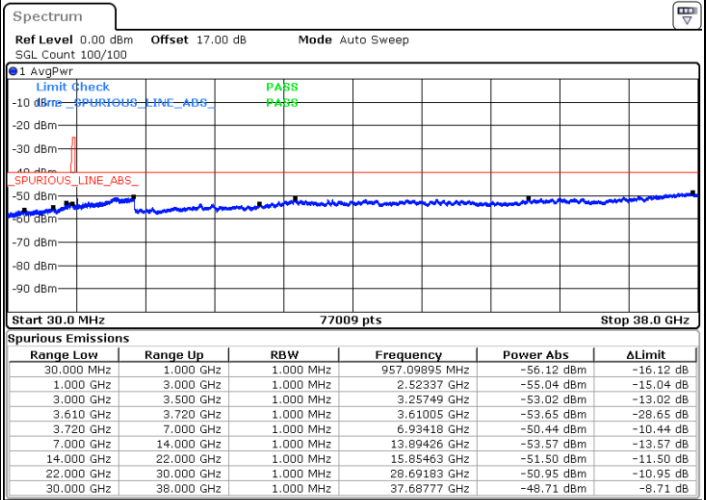
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



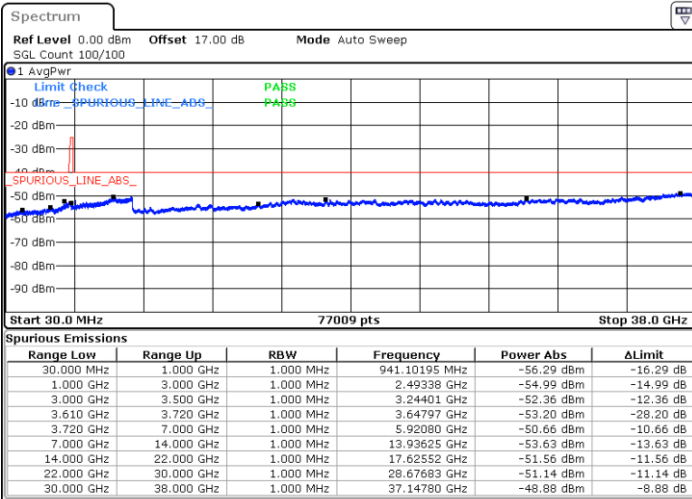
Date: 14.JUL.2020 22:33:47



Date: 14.JUL.2020 22:53:09

Lowest Channel / FullIRB

N/A



Date: 14.JUL.2020 22:43:28

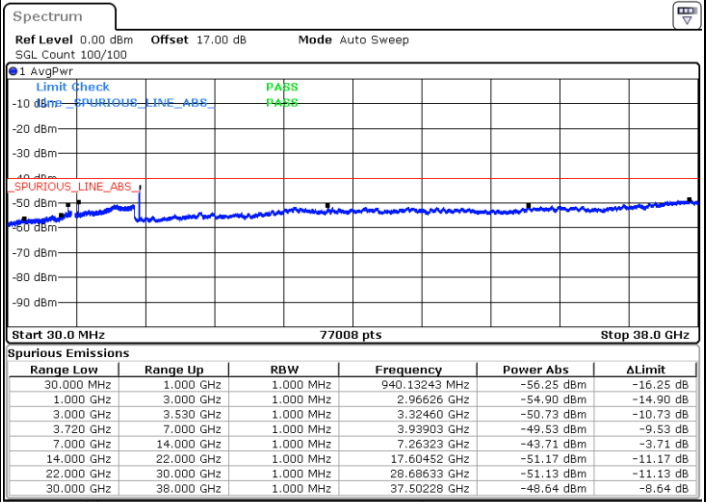
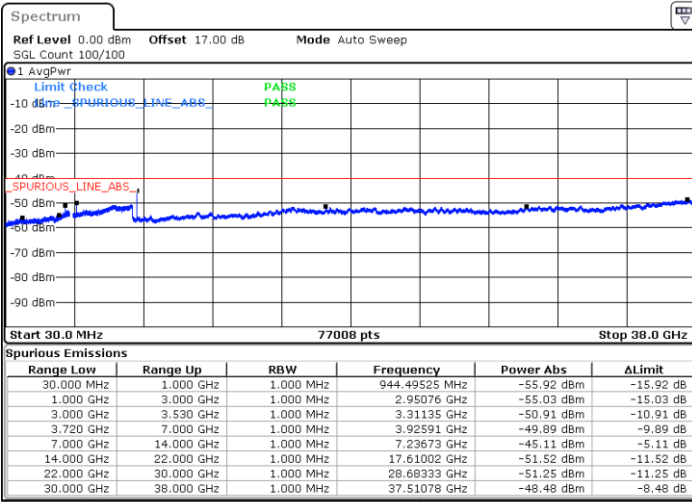


LTE Band 48 / 15MHz

64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

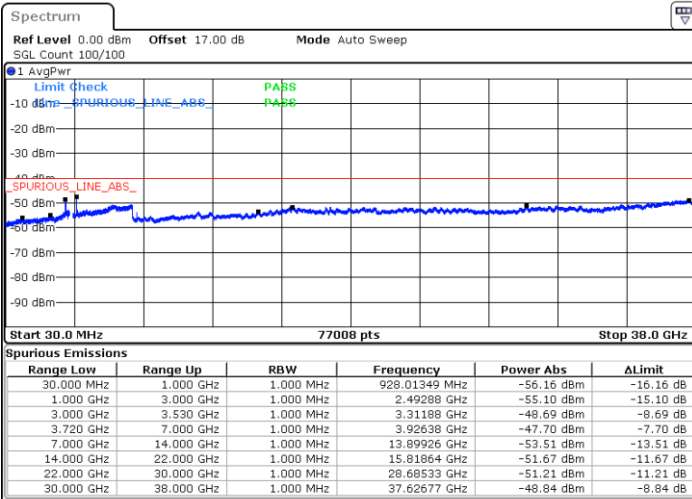


Date: 14.JUL.2020 22:34:51

Date: 14.JUL.2020 22:54:13

Middle Channel / FullIRB

N/A



Date: 14.JUL.2020 22:44:32

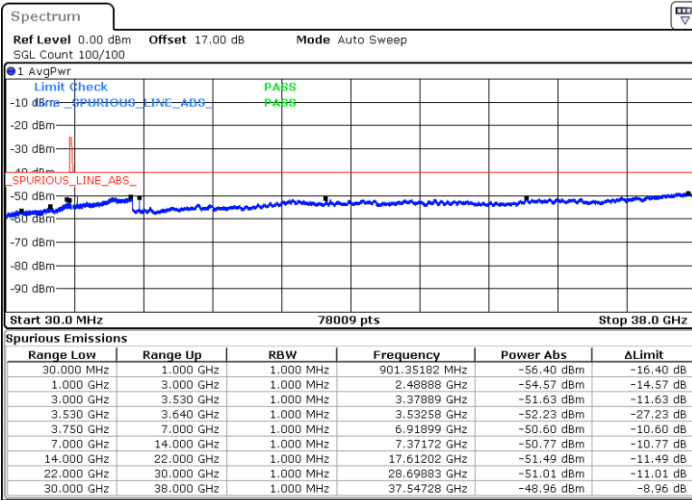


LTE Band 48 / 15MHz

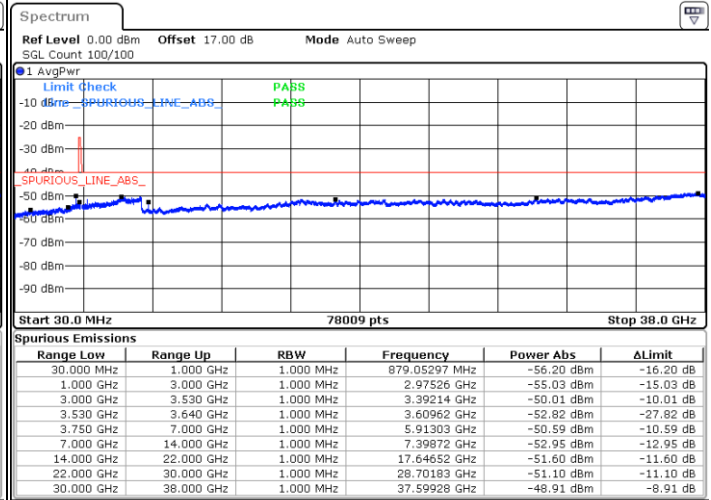
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



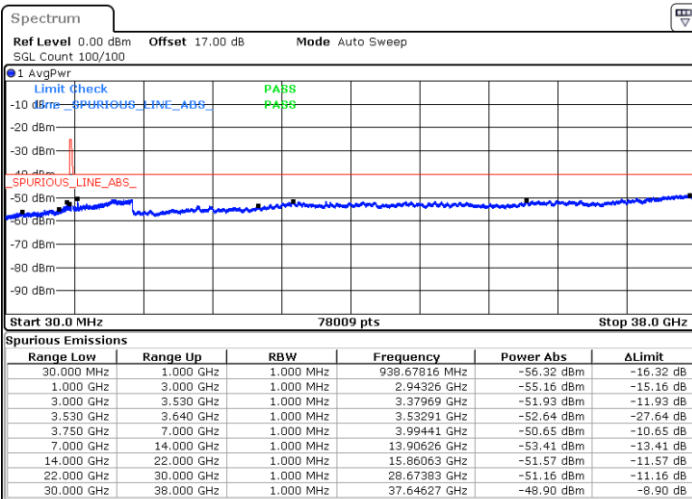
Date: 14.JUL.2020 22:40:13



Date: 14.JUL.2020 22:59:36

Highest Channel / FullIRB

N/A



Date: 14.JUL.2020 22:49:54

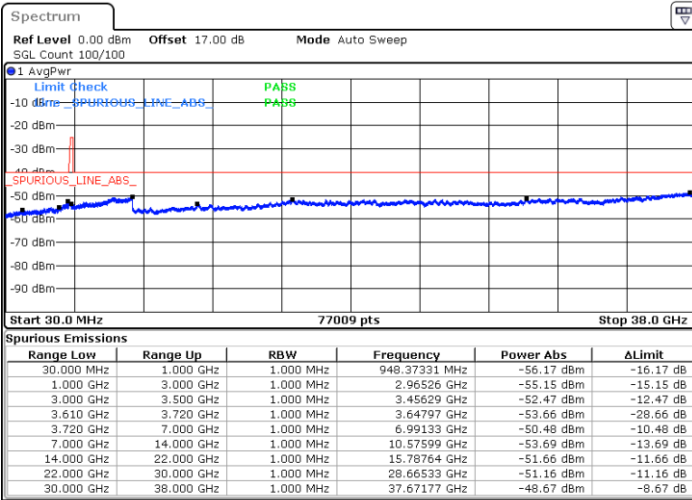


LTE Band 48 / 20MHz

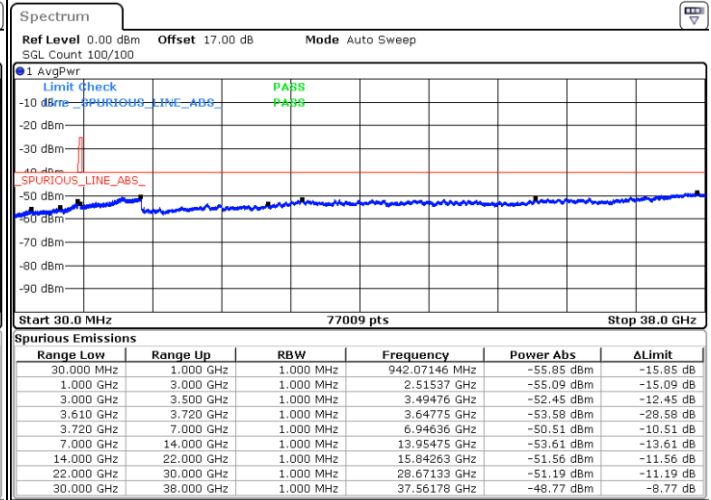
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



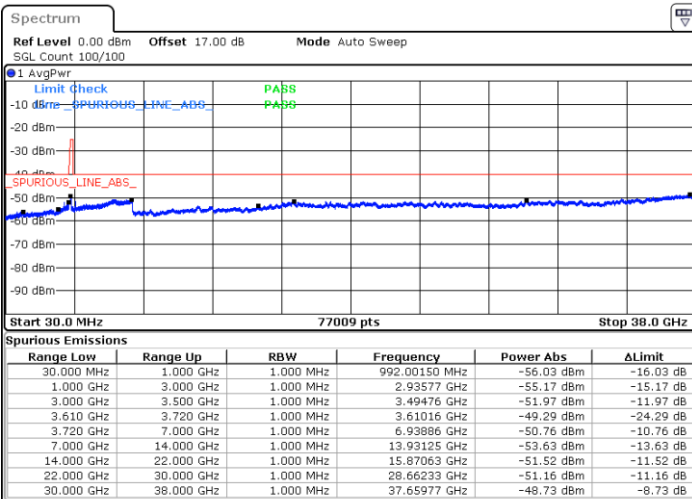
Date: 14.JUL.2020 23:10:22



Date: 14.JUL.2020 23:20:03

Lowest Channel / FullIRB

N/A



Date: 14.JUL.2020 23:00:41

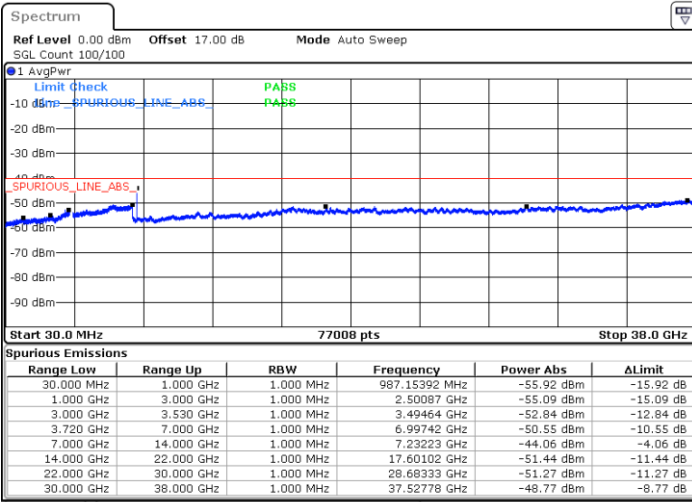


LTE Band 48 / 20MHz

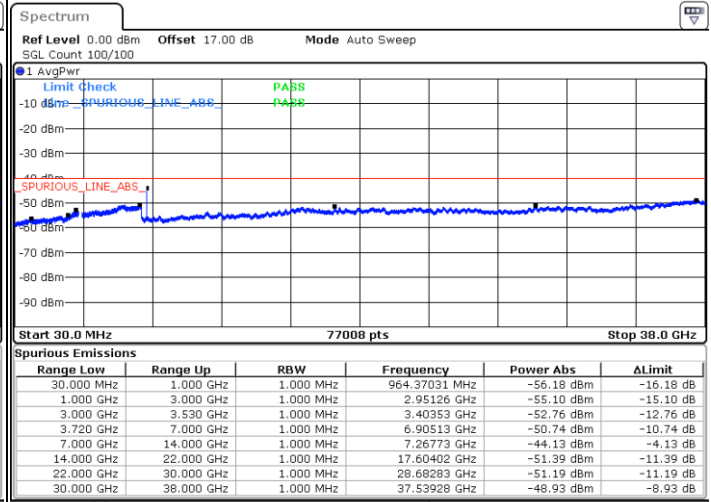
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



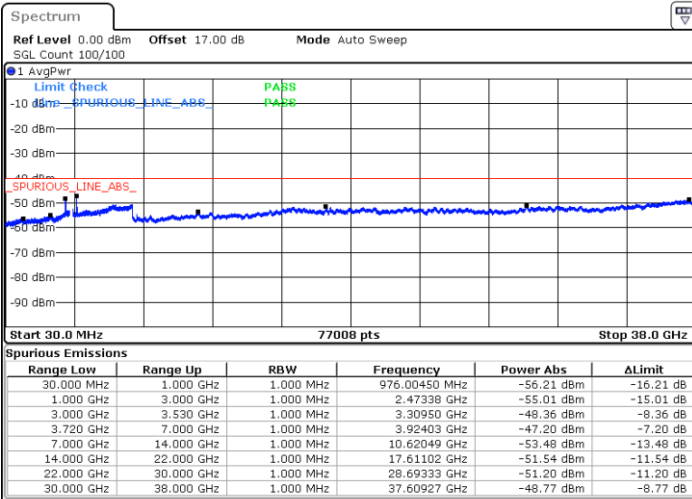
Date: 14.JUL.2020 23:15:44



Date: 14.JUL.2020 23:25:24

Middle Channel / FullIRB

N/A



Date: 14.JUL.2020 23:06:03

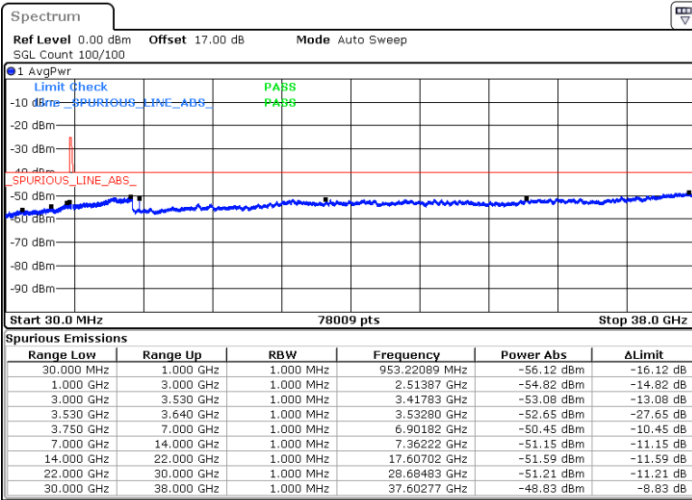


LTE Band 48 / 20MHz

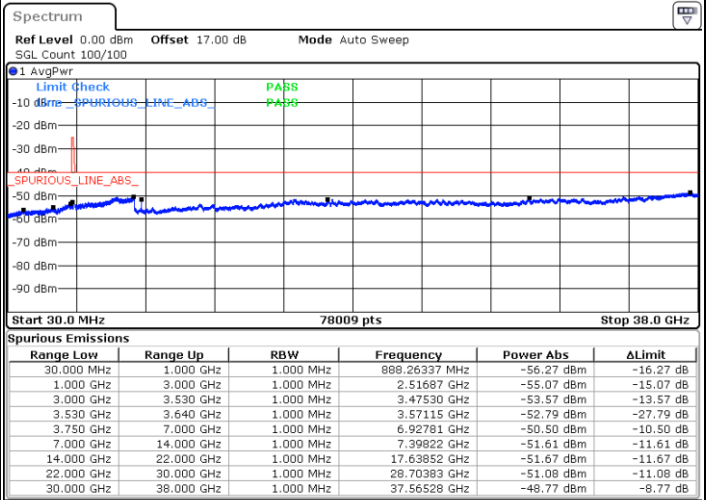
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



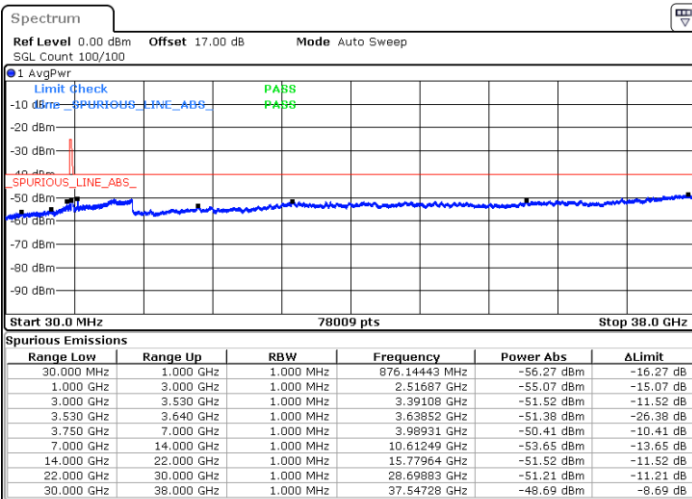
Date: 14.JUL.2020 23:16:48



Date: 14.JUL.2020 23:26:29

Highest Channel / FullIRB

N/A



Date: 14.JUL.2020 23:07:07



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	0.0025	PASS
40	Normal Voltage	0.0042	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0037	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 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	29.73	34.76	25.03
Middle CH	24.73	29.91	34.83	24.98
Highest CH	24.68	29.79	34.83	24.98
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.15	34.97	39.88	-
Middle CH	29.91	34.69	39.72	-
Highest CH	30.21	34.83	39.72	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	24.73	29.85	34.55	24.83
Middle CH	24.78	29.67	34.76	24.88
Highest CH	24.78	29.91	34.69	24.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	29.97	34.90	39.80	-
Middle CH	29.91	34.97	39.72	-
Highest CH	30.09	34.90	39.72	-

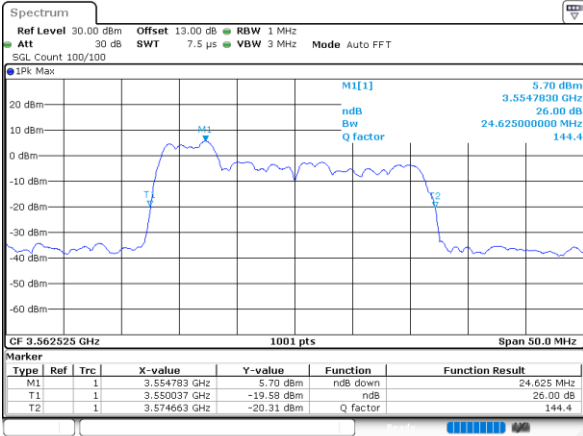
Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	24.78	29.97	34.90	24.98
Middle CH	24.73	29.91	34.83	24.98
Highest CH	24.78	29.91	34.76	24.98
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.03	34.90	40.04	-
Middle CH	30.15	34.83	39.96	-
Highest CH	30.03	34.83	39.72	-



LTE Band 48C

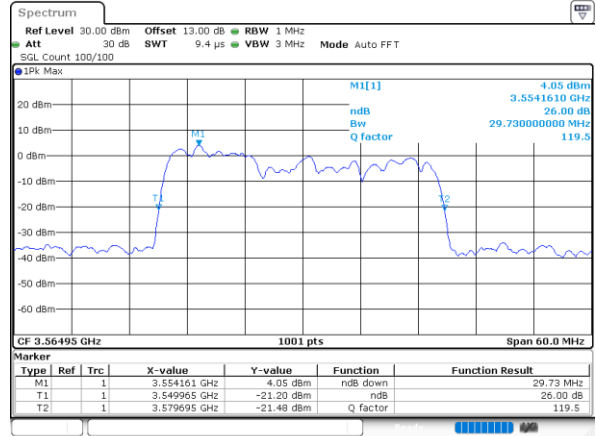
QPSK

Lowest Channel / 5MHz+20MHz



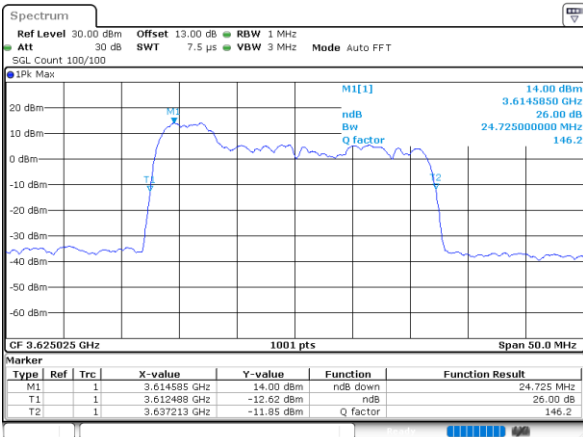
Date: 17_JUL_2020 21:12:24

Lowest Channel / 10MHz+20MHz



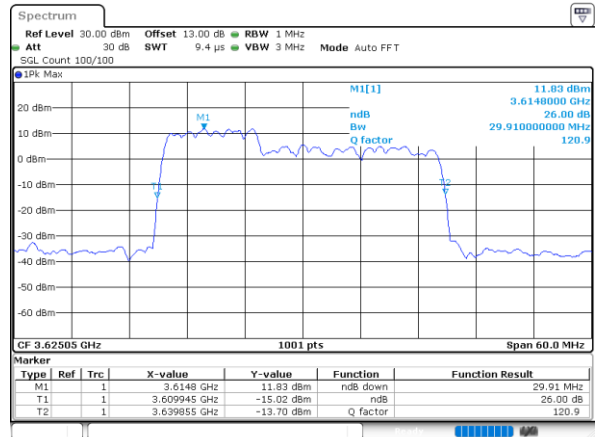
Date: 16_JUL_2020 23:11:12

Middle Channel / 5MHz+20MHz



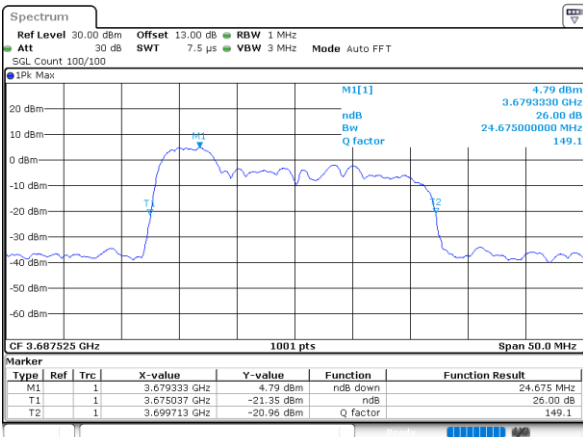
Date: 17_JUL_2020 21:16:27

Middle Channel / 10MHz+20MHz



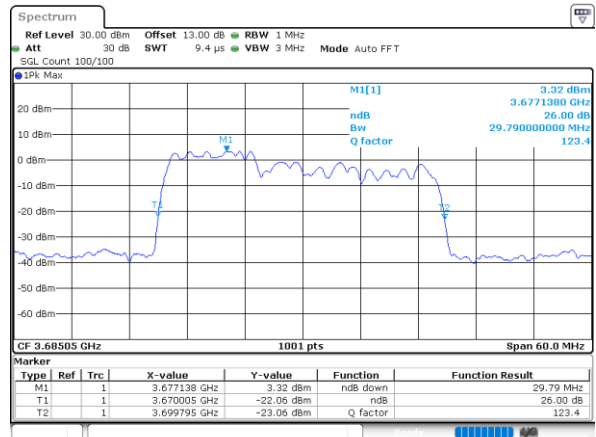
Date: 17_JUL_2020 00:51:36

Highest Channel / 5MHz+20MHz



Date: 17_JUL_2020 22:30:06

Highest Channel / 10MHz+20MHz



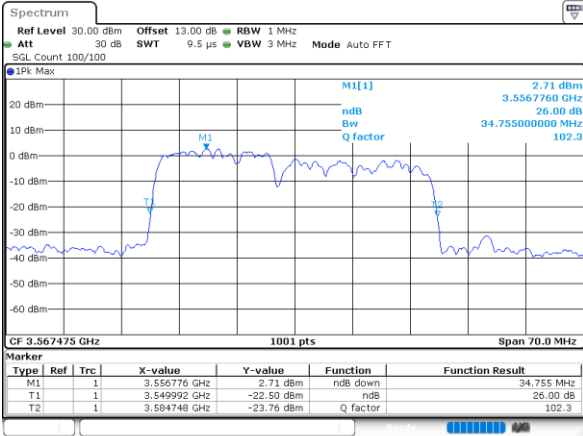
Date: 17_JUL_2020 00:56:18



LTE Band 48C

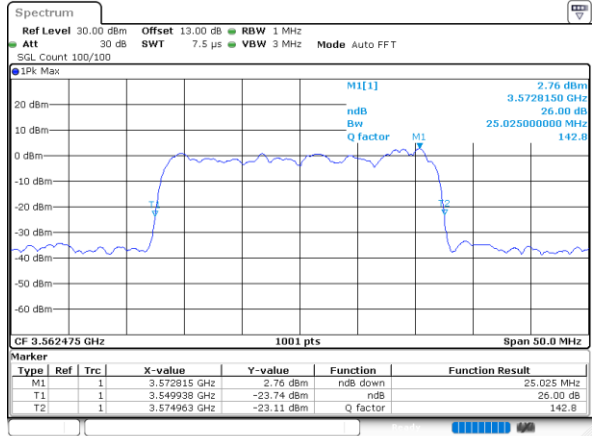
QPSK

Lowest Channel / 15MHz+20MHz



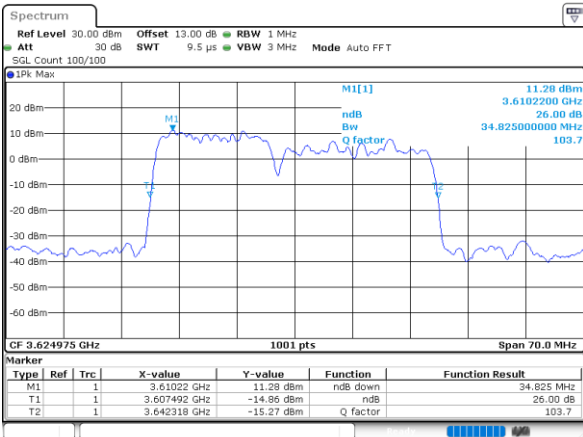
Date: 7_JUL_2020 23:21:09

Lowest Channel / 20MHz+5MHz



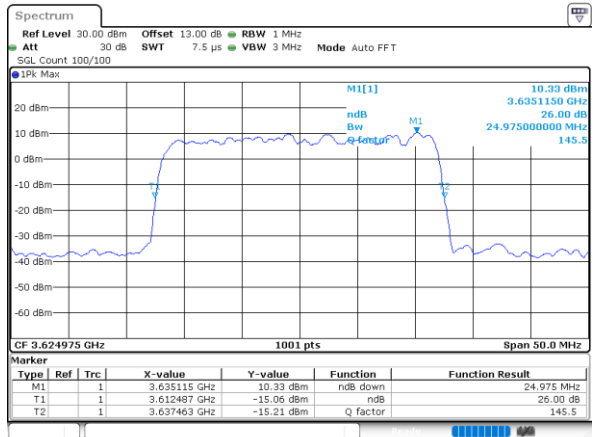
Date: 17_JUL_2020 01:48:19

Middle Channel / 15MHz+20MHz



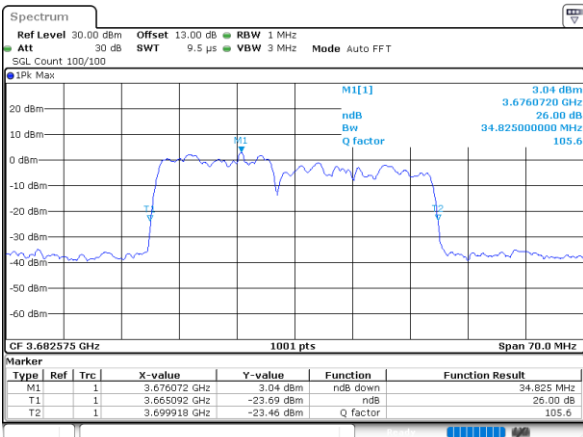
Date: 8_JUL_2020 00:09:31

Middle Channel / 20MHz+5MHz



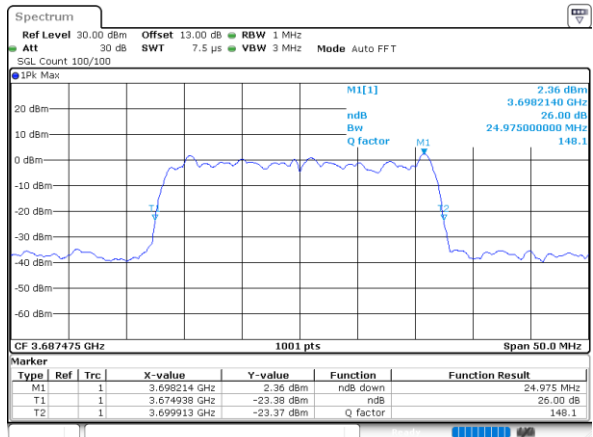
Date: 17_JUL_2020 19:48:19

Highest Channel / 15MHz+20MHz



Date: 8_JUL_2020 00:12:12

Highest Channel / 20MHz+5MHz



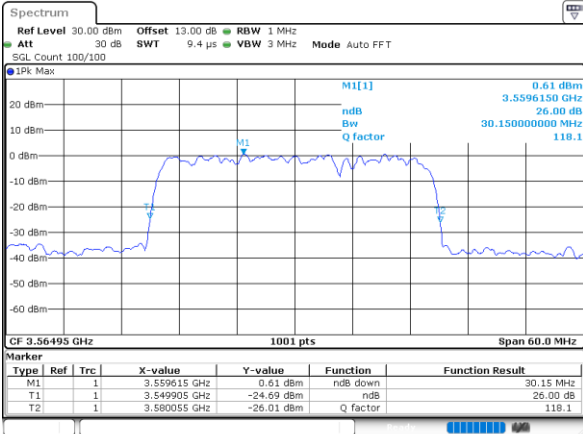
Date: 17_JUL_2020 20:28:43



LTE Band 48C

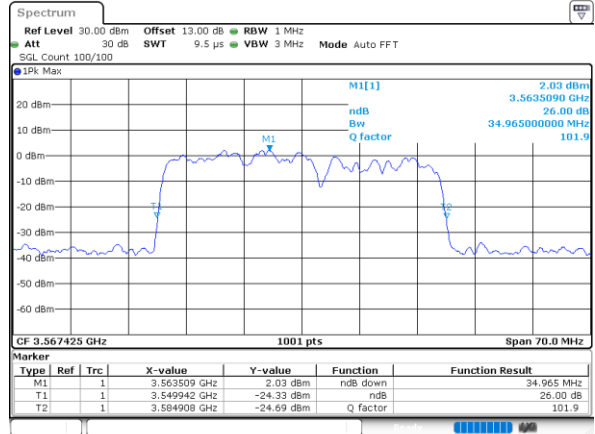
QPSK

Lowest Channel / 20MHz+10MHz



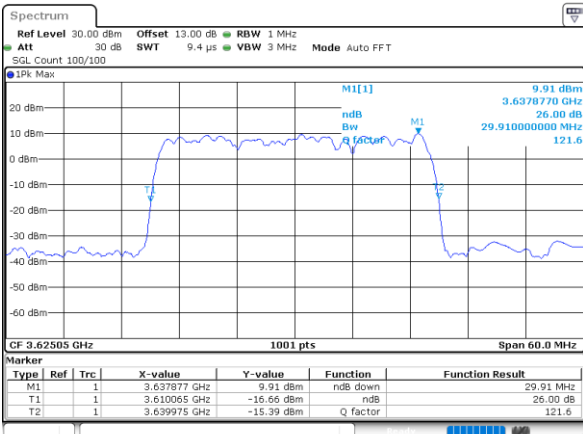
Date: 16_JUL_2020 00:13:34

Lowest Channel / 20MHz+15MHz



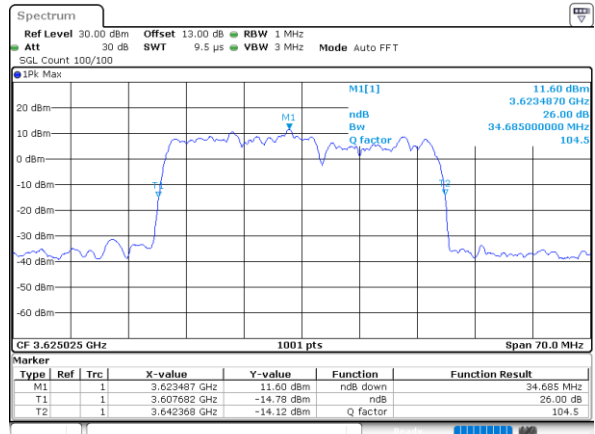
Date: 7_JUL_2020 20:31:23

Middle Channel / 20MHz+10MHz



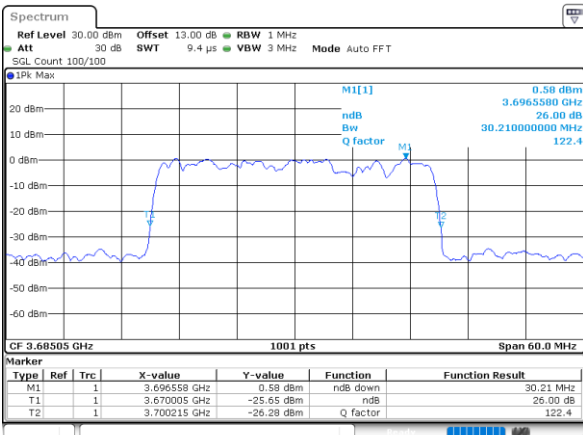
Date: 16_JUL_2020 01:04:33

Middle Channel / 20MHz+15MHz



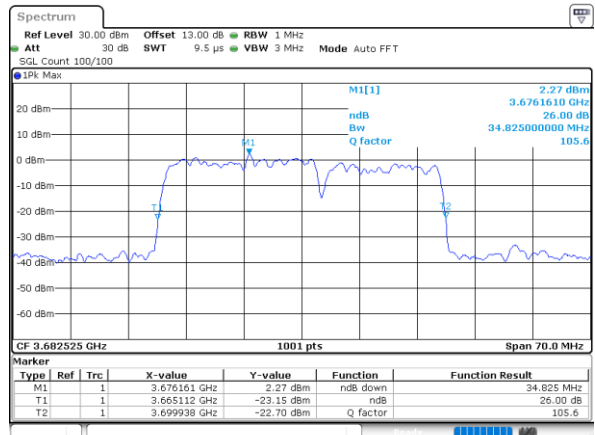
Date: 7_JUL_2020 20:34:41

Highest Channel / 20MHz+10MHz



Date: 16_JUL_2020 01:44:53

Highest Channel / 20MHz+15MHz



Date: 7_JUL_2020 22:22:54

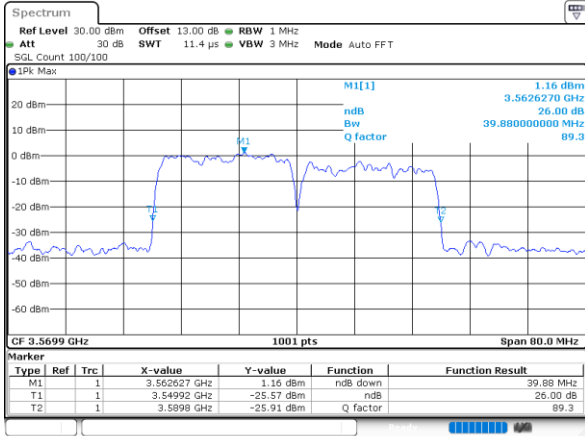


LTE Band 48C

QPSK

Lowest Channel / 20MHz+20MHz

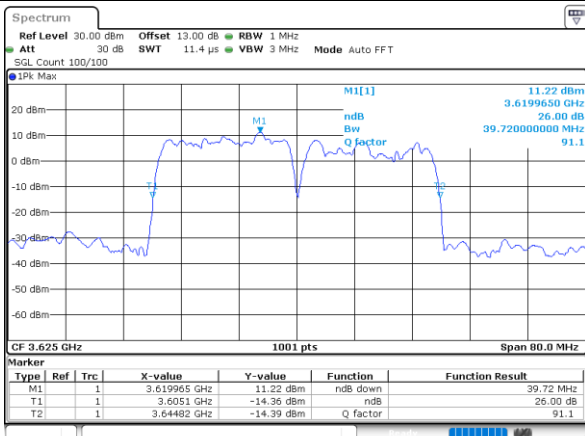
N/A



Date: 8_JUL_2020 02:14:2103

Middle Channel / 20MHz+20MHz

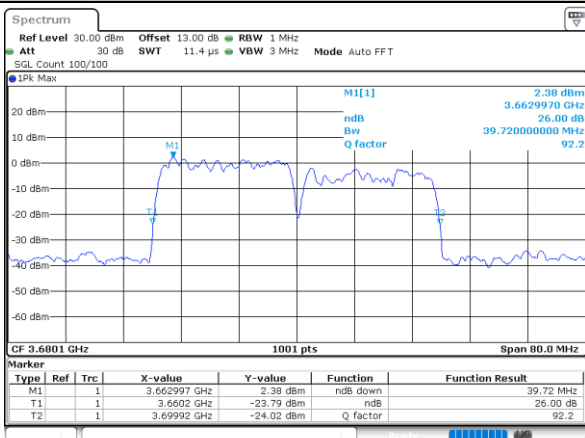
N/A



Date: 8_JUL_2020 02:15:2119

Highest Channel / 20MHz+20MHz

N/A



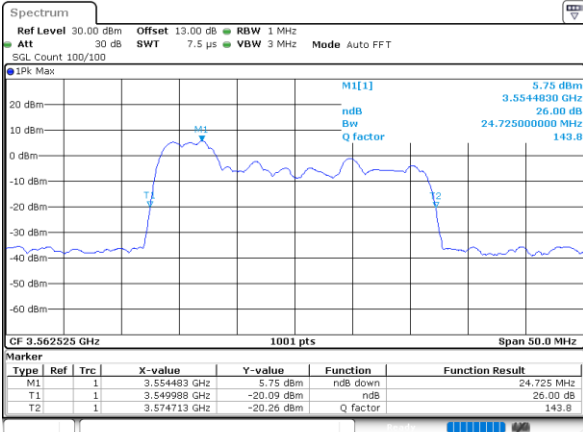
Date: 8_JUL_2020 02:15:7149



LTE Band 48C

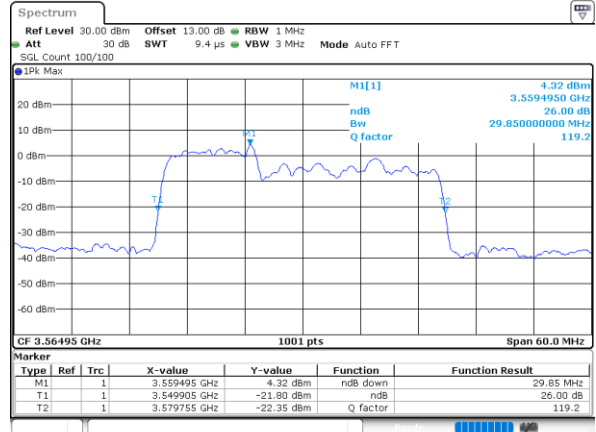
16QAM

Lowest Channel / 5MHz+20MHz



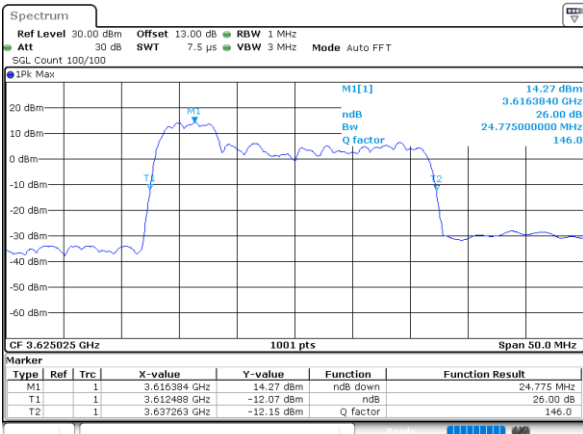
Date: 17_JUL_2020 21:12:01

Lowest Channel / 10MHz+20MHz



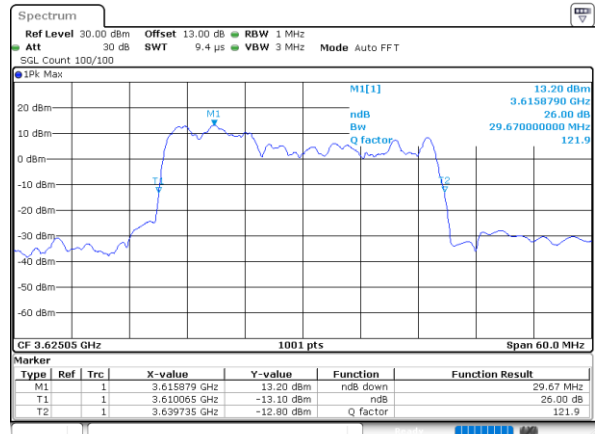
Date: 16_JUL_2020 23:10:49

Middle Channel / 5MHz+20MHz



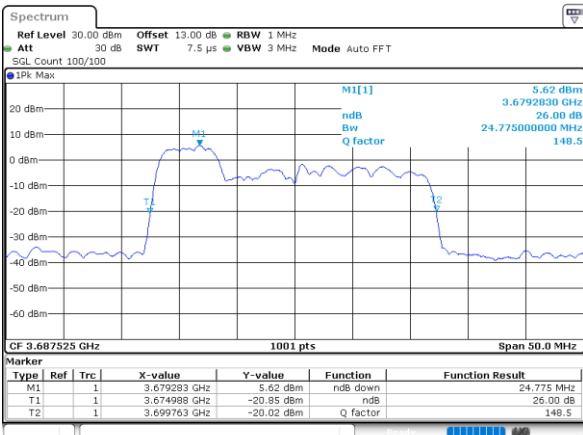
Date: 17_JUL_2020 21:16:04

Middle Channel / 10MHz+20MHz



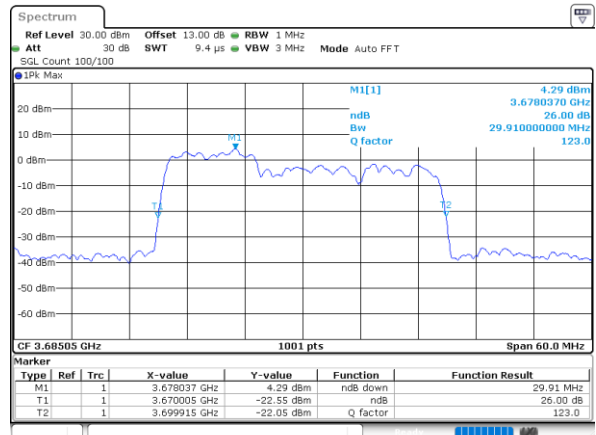
Date: 17_JUL_2020 00:51:14

Highest Channel / 5MHz+20MHz



Date: 17_JUL_2020 22:30:29

Highest Channel / 10MHz+20MHz



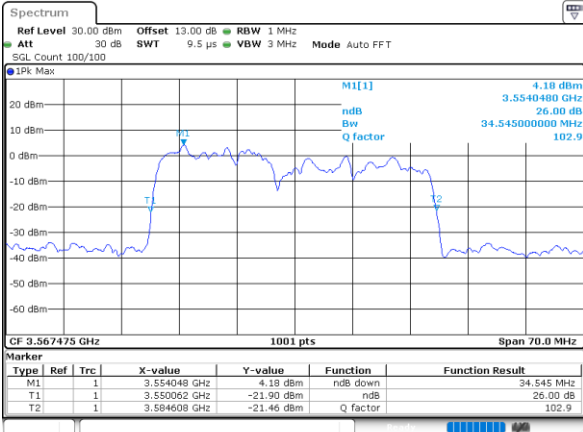
Date: 17_JUL_2020 00:56:41



LTE Band 48C

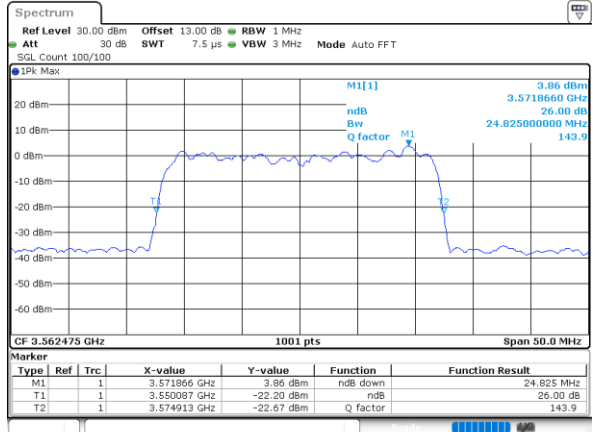
16QAM

Lowest Channel / 15MHz+20MHz



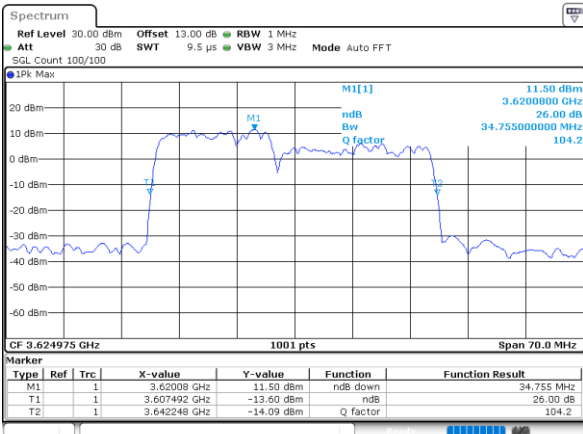
Date: 7_JUL_2020 23:20:46

Lowest Channel / 20MHz+5MHz



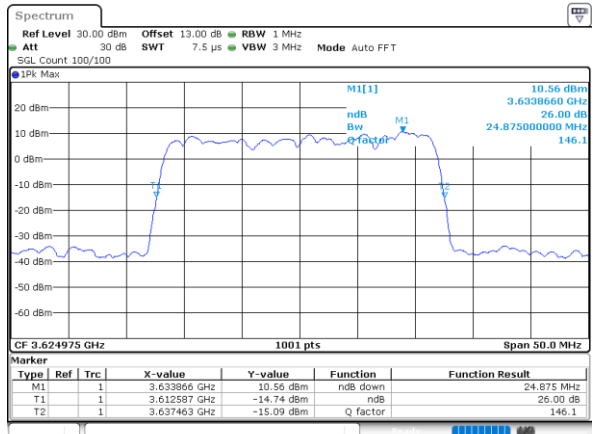
Date: 17_JUL_2020 01:47:57

Middle Channel / 15MHz+20MHz



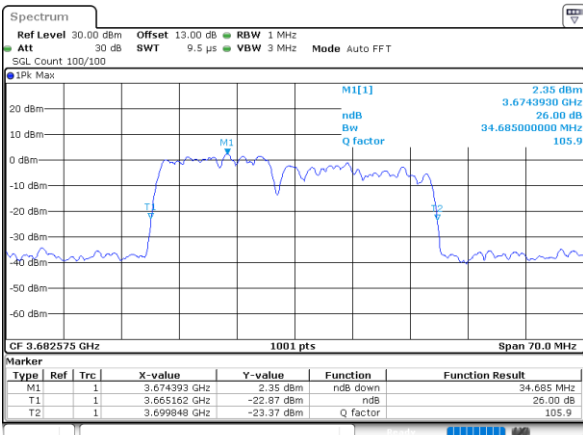
Date: 8_JUL_2020 00:10:08

Middle Channel / 20MHz+5MHz



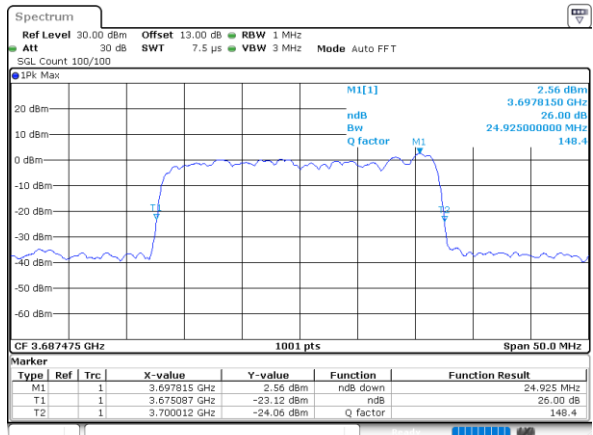
Date: 17_JUL_2020 19:47:56

Highest Channel / 15MHz+20MHz



Date: 8_JUL_2020 00:12:35

Highest Channel / 20MHz+5MHz



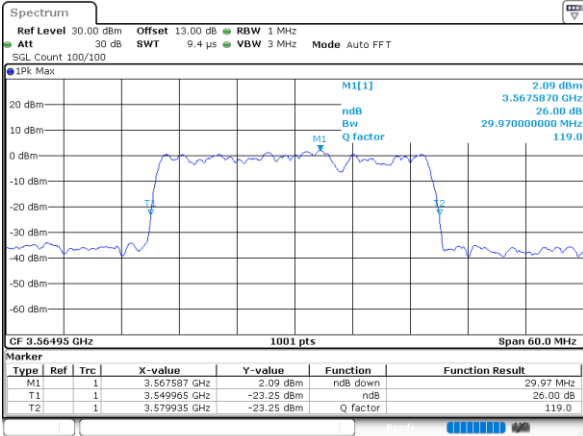
Date: 17_JUL_2020 20:29:06



LTE Band 48C

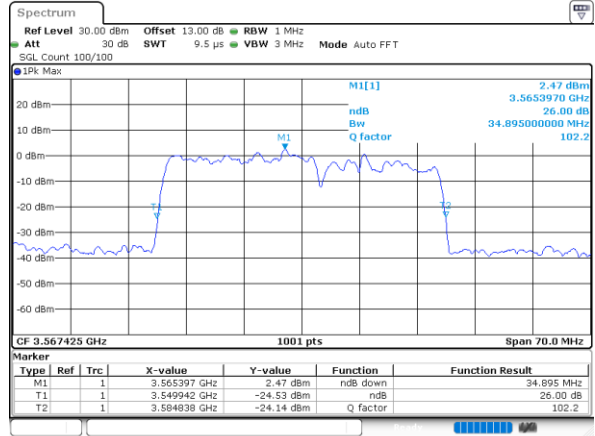
16QAM

Lowest Channel / 20MHz+10MHz



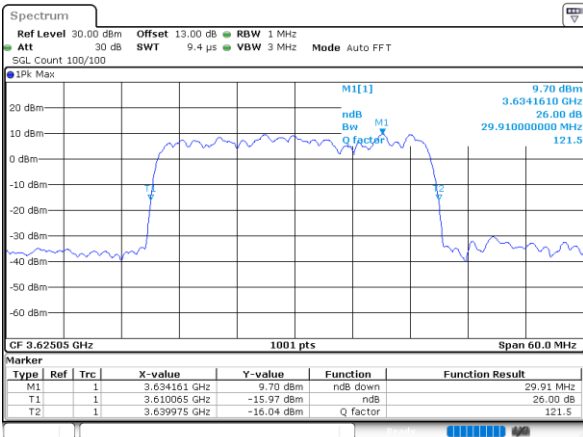
Date: 16_JUL_2020 00:13:10

Lowest Channel / 20MHz+15MHz



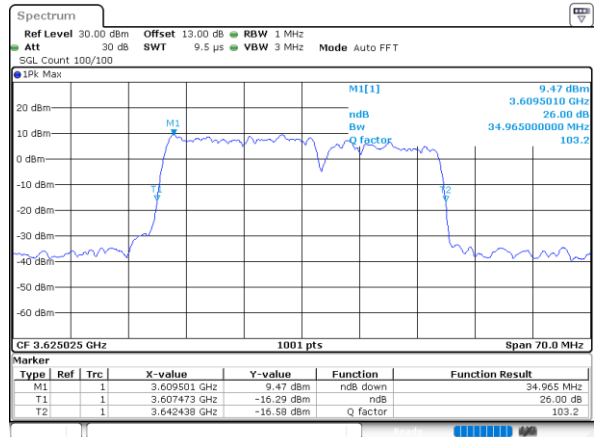
Date: 7_JUL_2020 20:31:00

Middle Channel / 20MHz+10MHz



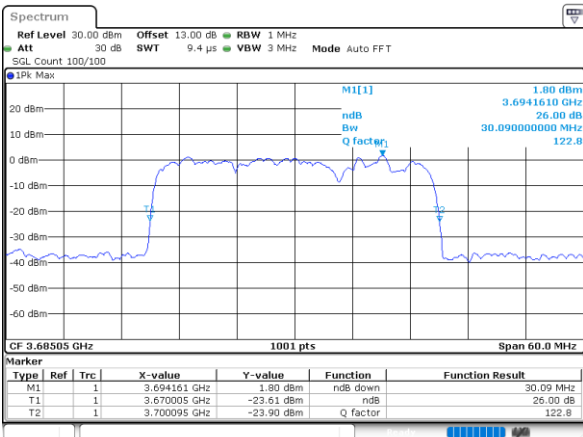
Date: 16_JUL_2020 01:04:10

Middle Channel / 20MHz+15MHz



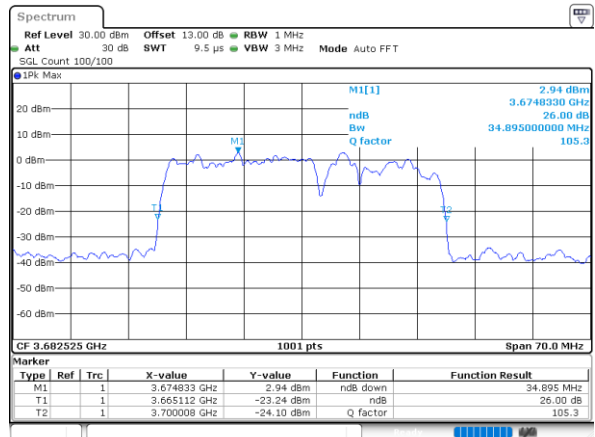
Date: 7_JUL_2020 20:34:16

Highest Channel / 20MHz+10MHz



Date: 16_JUL_2020 01:45:15

Highest Channel / 20MHz+15MHz



Date: 7_JUL_2020 22:23:17

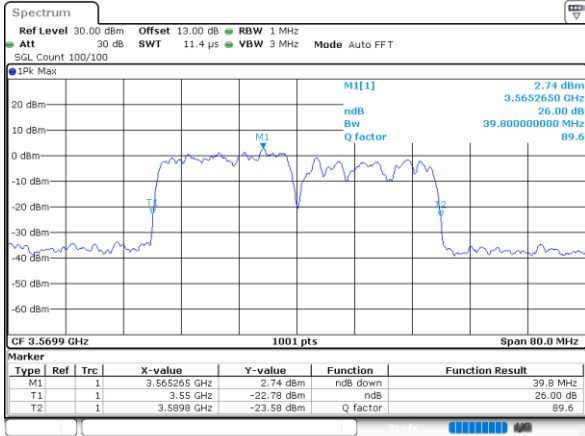


LTE Band 48C

16QAM

Lowest Channel / 20MHz+20MHz

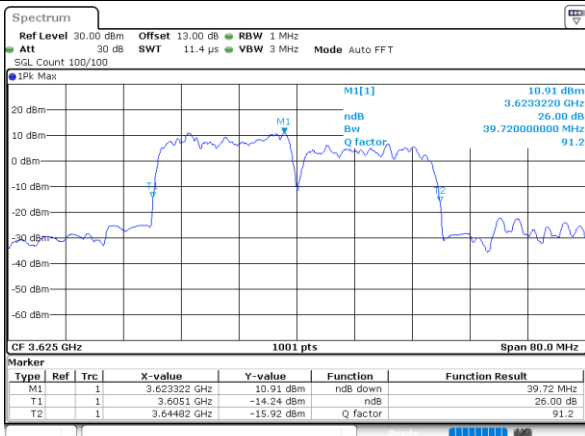
N/A



Date: 8_JUL_2020 02:41:39

Middle Channel / 20MHz+20MHz

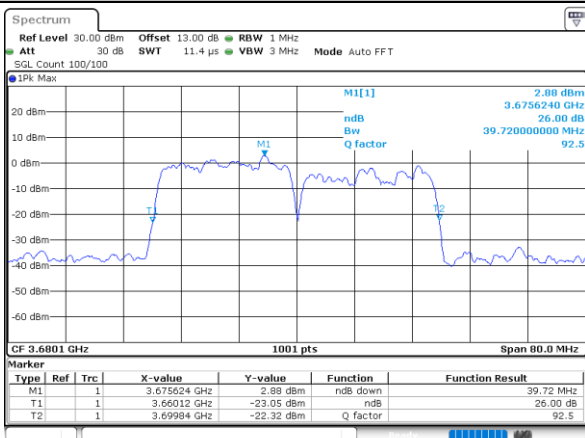
N/A



Date: 8_JUL_2020 02:51:56

Highest Channel / 20MHz+20MHz

N/A



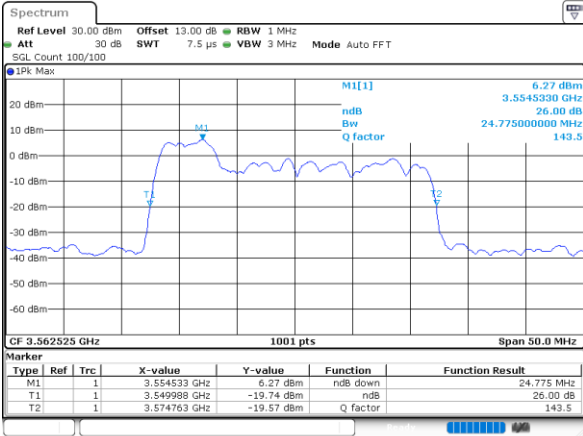
Date: 8_JUL_2020 02:58:12



LTE Band 48C

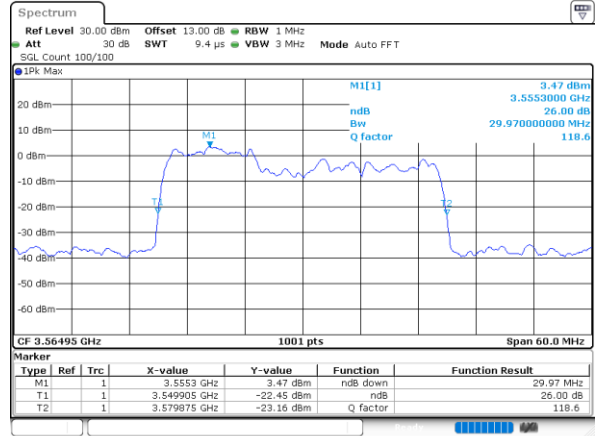
64QAM

Lowest Channel / 5MHz+20MHz



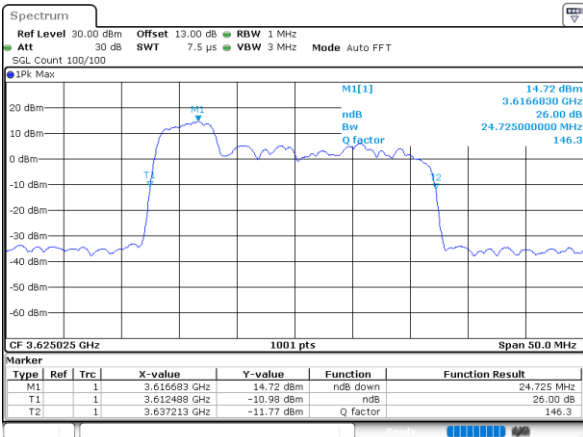
Date: 17_JUL_2020 21:11:38

Lowest Channel / 10MHz+20MHz



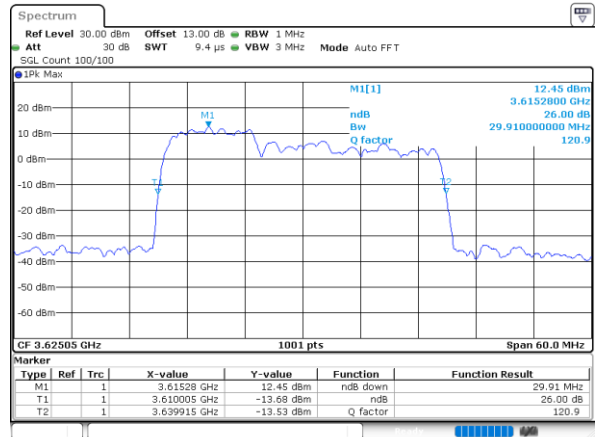
Date: 16_JUL_2020 23:10:27

Middle Channel / 5MHz+20MHz



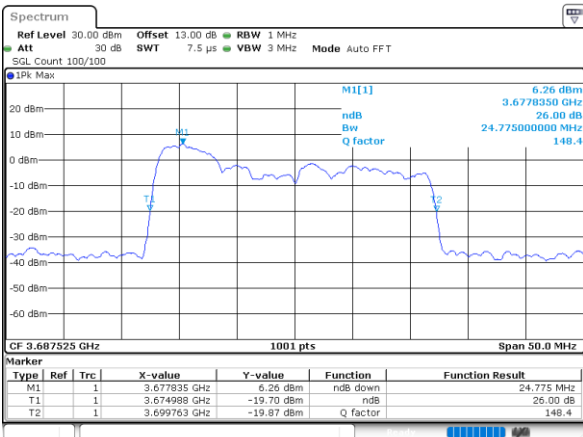
Date: 17_JUL_2020 21:15:40

Middle Channel / 10MHz+20MHz



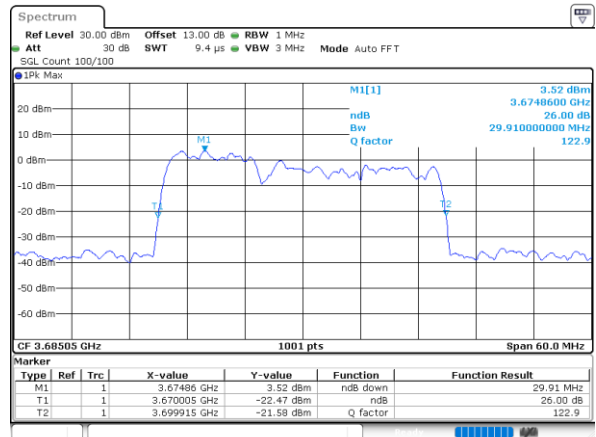
Date: 17_JUL_2020 00:50:51

Highest Channel / 5MHz+20MHz



Date: 17_JUL_2020 22:30:53

Highest Channel / 10MHz+20MHz



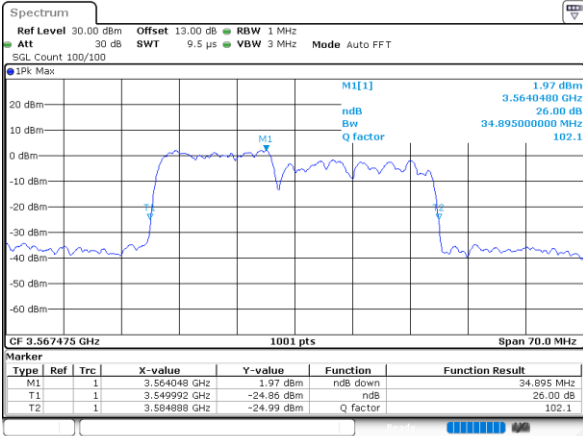
Date: 17_JUL_2020 00:57:03



LTE Band 48C

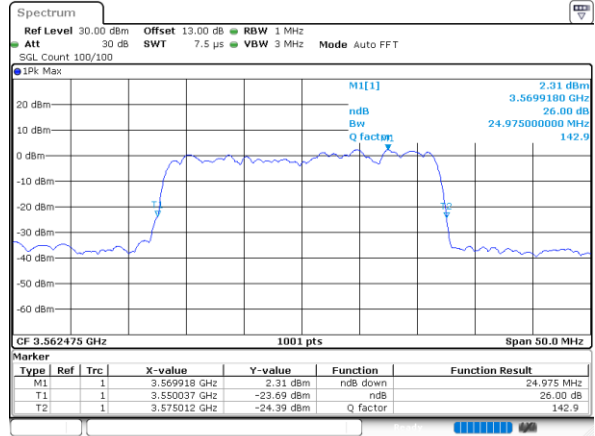
64QAM

Lowest Channel / 15MHz+20MHz



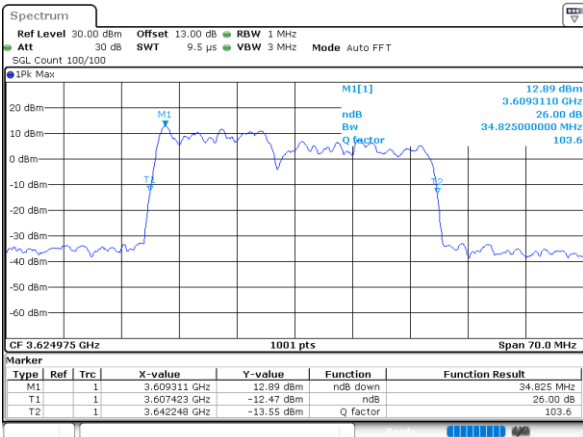
Date: 7_JUL_2020 23:20:23

Lowest Channel / 20MHz+5MHz



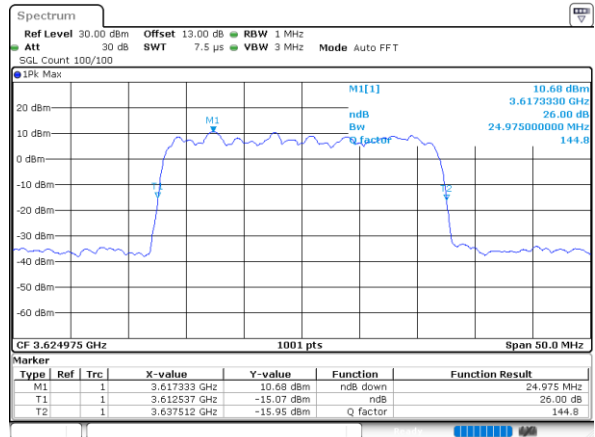
Date: 17_JUL_2020 01:47:34

Middle Channel / 15MHz+20MHz



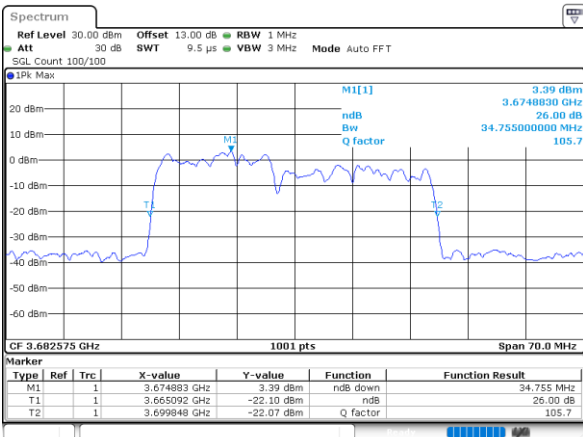
Date: 8_JUL_2020 00:08:45

Middle Channel / 20MHz+5MHz



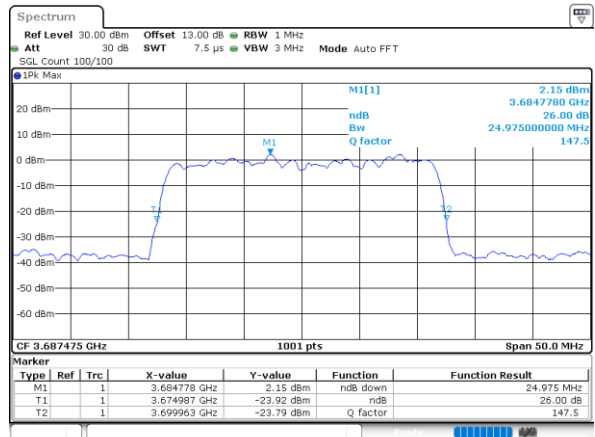
Date: 17_JUL_2020 09:47:33

Highest Channel / 15MHz+20MHz



Date: 8_JUL_2020 00:12:59

Highest Channel / 20MHz+5MHz



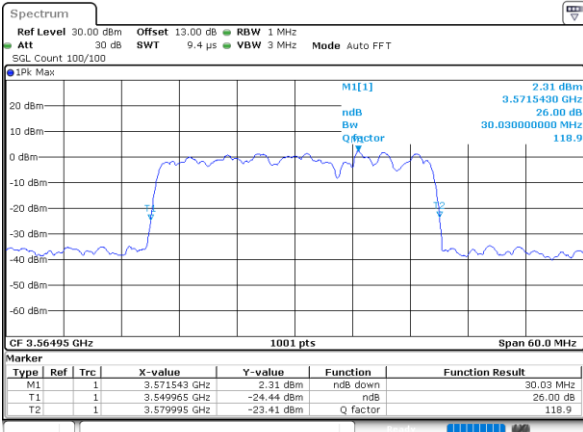
Date: 17_JUL_2020 20:29:29



LTE Band 48C

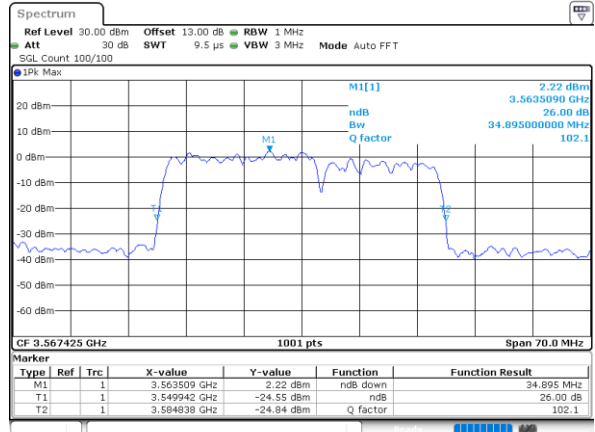
64QAM

Lowest Channel / 20MHz+10MHz



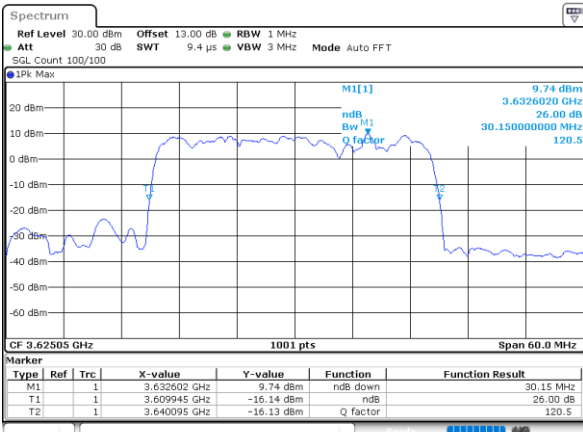
Date: 16_JUL_2020 00:12:47

Lowest Channel / 20MHz+15MHz



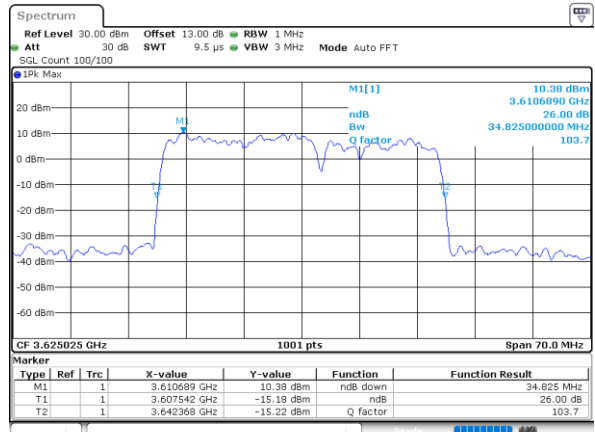
Date: 7_JUL_2020 20:30:36

Middle Channel / 20MHz+10MHz



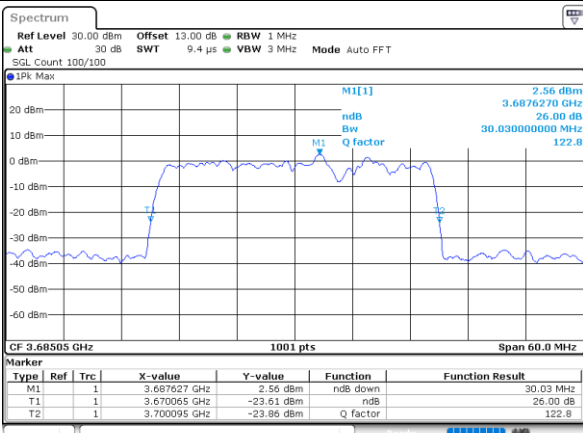
Date: 16_JUL_2020 01:03:46

Middle Channel / 20MHz+15MHz



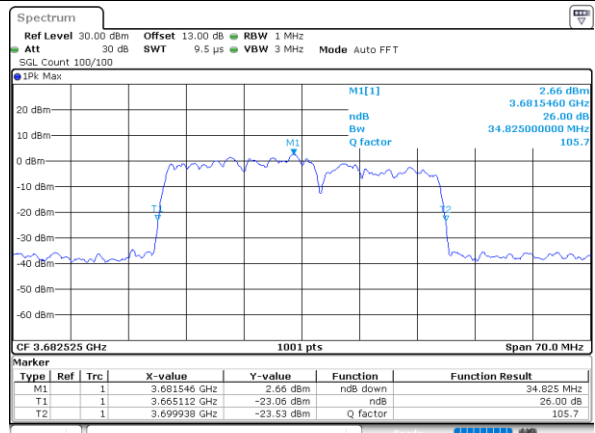
Date: 7_JUL_2020 20:33:54

Highest Channel / 20MHz+10MHz



Date: 16_JUL_2020 01:45:38

Highest Channel / 20MHz+15MHz



Date: 7_JUL_2020 22:23:40

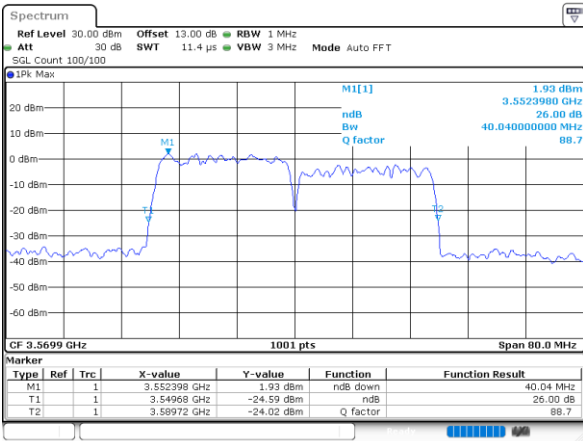


LTE Band 48C

64QAM

Lowest Channel / 20MHz+20MHz

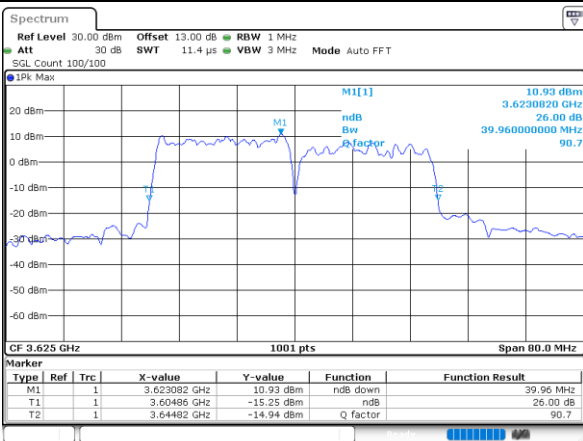
N/A



Date: 8_JUL_2020 02:41:116

Middle Channel / 20MHz+20MHz

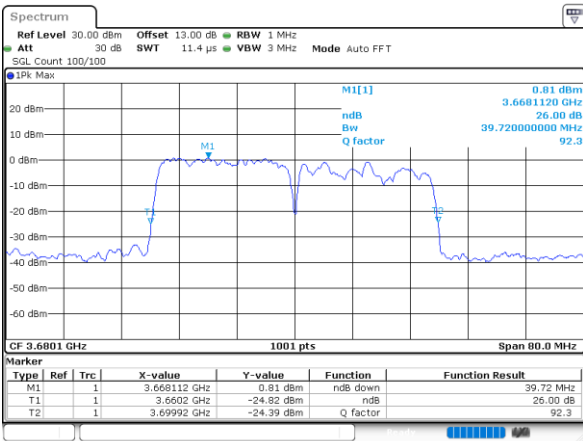
N/A



Date: 8_JUL_2020 02:51:133

Highest Channel / 20MHz+20MHz

N/A



Date: 8_JUL_2020 02:58:135



Occupied Bandwidth

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	23.08	27.99	32.73	23.53
Middle CH	22.98	27.99	32.52	23.28
Highest CH	23.03	28.11	32.80	23.13
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	28.17	32.80	37.64	-
Middle CH	27.99	32.52	37.96	-
Highest CH	27.81	32.73	37.72	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	23.28	28.11	32.87	23.38
Middle CH	23.23	27.99	32.80	23.18
Highest CH	23.18	28.05	32.80	23.08
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.87	32.73	37.48	-
Middle CH	27.93	32.24	37.64	-
Highest CH	27.63	32.87	37.72	-

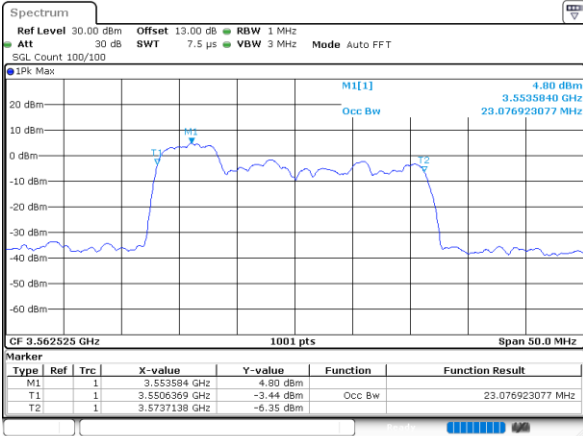
Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	23.03	28.29	32.66	23.23
Middle CH	23.03	27.81	32.24	23.23
Highest CH	23.13	27.93	32.66	23.18
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.87	32.73	37.24	-
Middle CH	27.99	32.94	37.80	-
Highest CH	27.93	32.94	37.16	-



LTE Band 48C

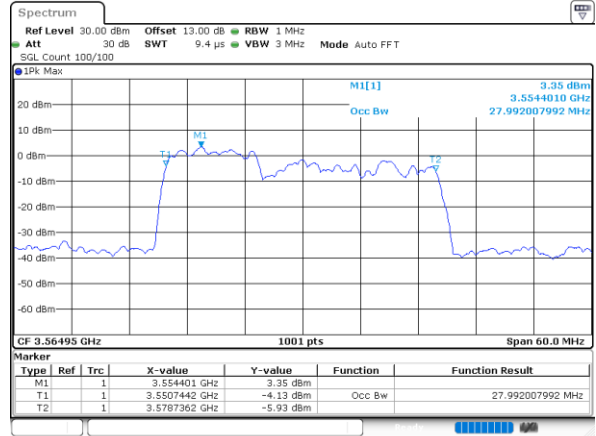
QPSK

Lowest Channel / 5MHz+20MHz



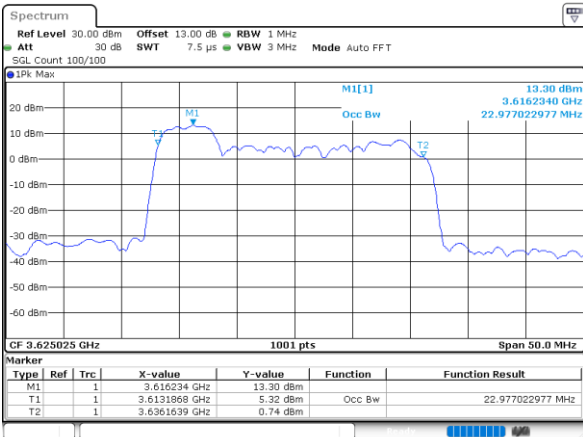
Date: 17_JUL_2020 21:10:29

Lowest Channel / 10MHz+20MHz



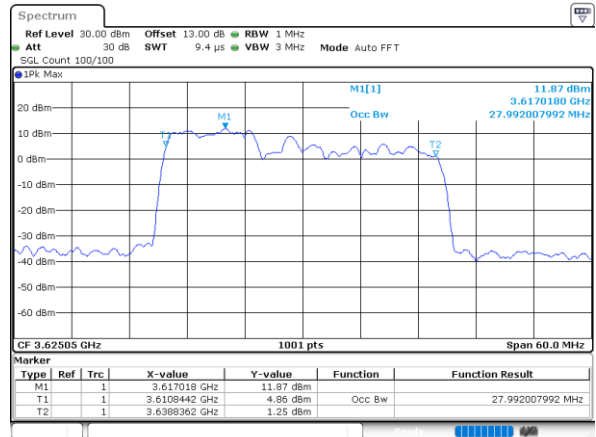
Date: 16_JUL_2020 23:09:20

Middle Channel / 5MHz+20MHz



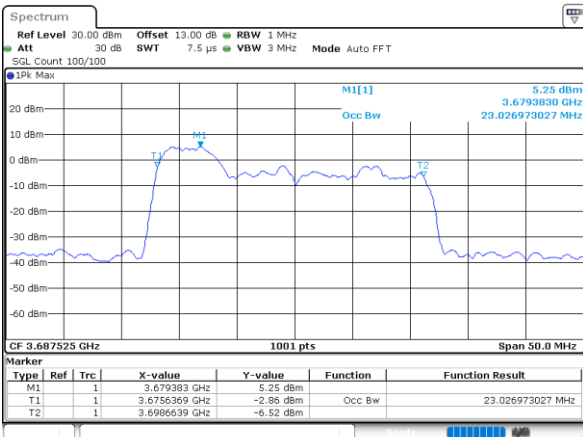
Date: 17_JUL_2020 21:14:32

Middle Channel / 10MHz+20MHz



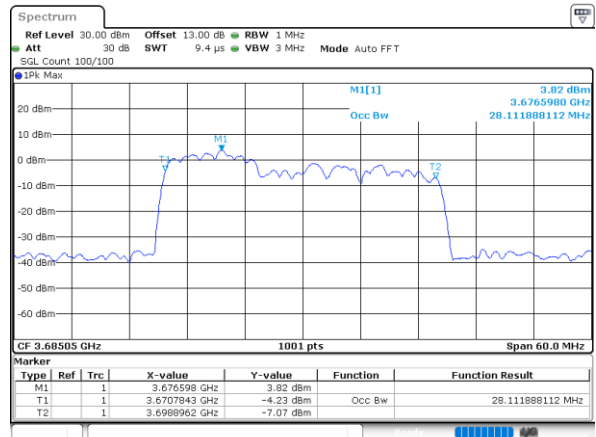
Date: 17_JUL_2020 00:49:44

Highest Channel / 5MHz+20MHz



Date: 17_JUL_2020 22:29:44

Highest Channel / 10MHz+20MHz



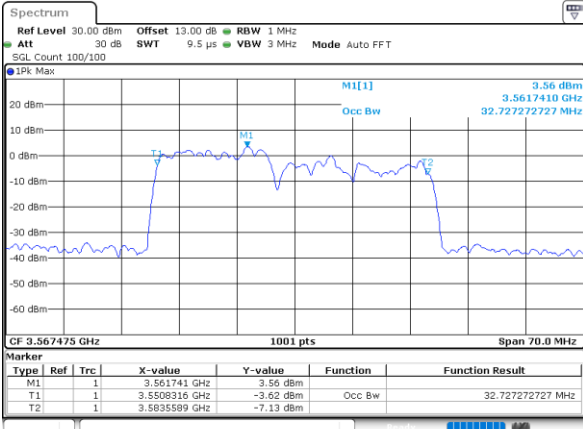
Date: 17_JUL_2020 00:55:56



LTE Band 48C

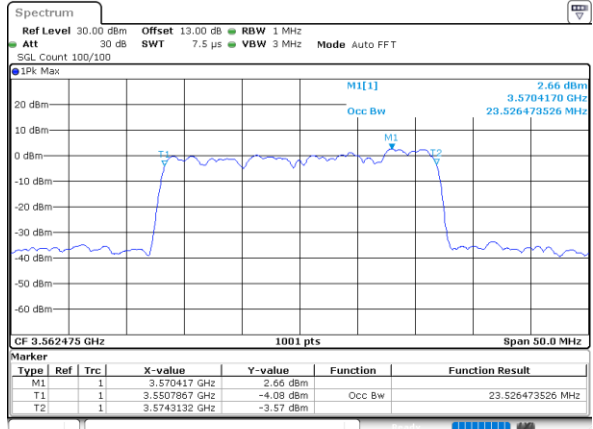
QPSK

Lowest Channel / 15MHz+20MHz



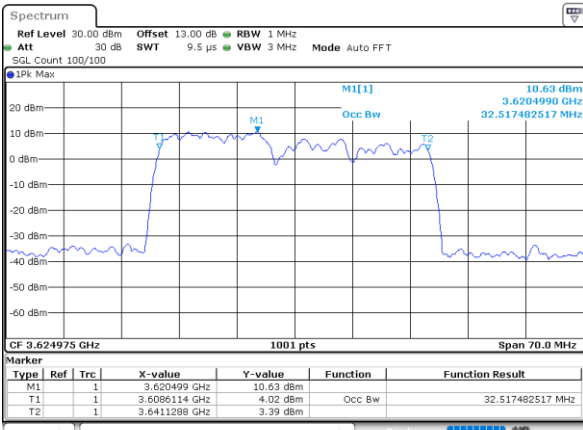
Date: 7_JUL_2020 23:19:14

Lowest Channel / 20MHz+5MHz



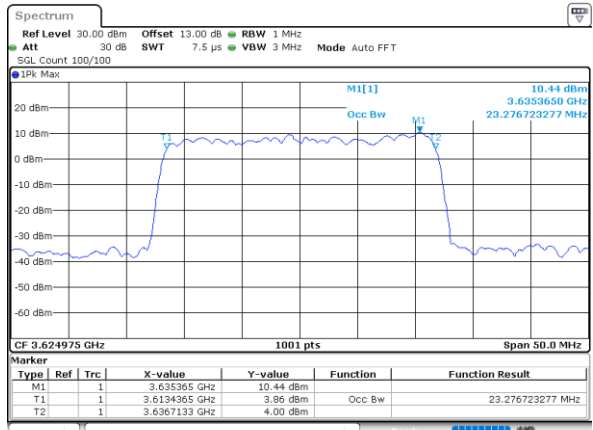
Date: 17_JUL_2020 01:46:27

Middle Channel / 15MHz+20MHz



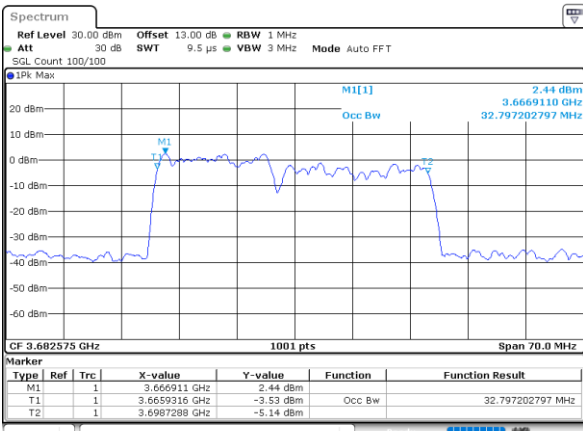
Date: 8_JUL_2020 00:17:36

Middle Channel / 20MHz+5MHz



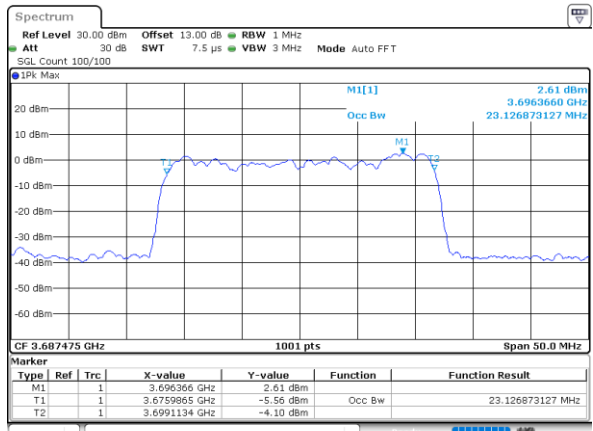
Date: 17_JUL_2020 19:46:24

Highest Channel / 15MHz+20MHz



Date: 8_JUL_2020 00:11:50

Highest Channel / 20MHz+5MHz



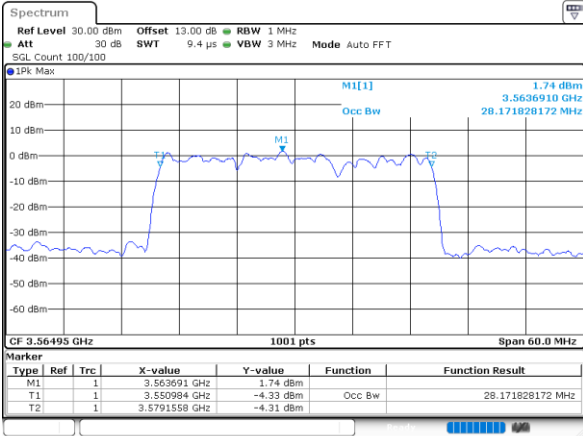
Date: 17_JUL_2020 20:28:21



LTE Band 48C

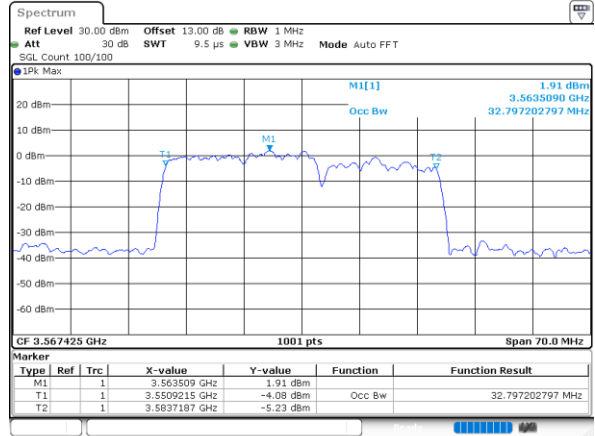
QPSK

Lowest Channel / 20MHz+10MHz



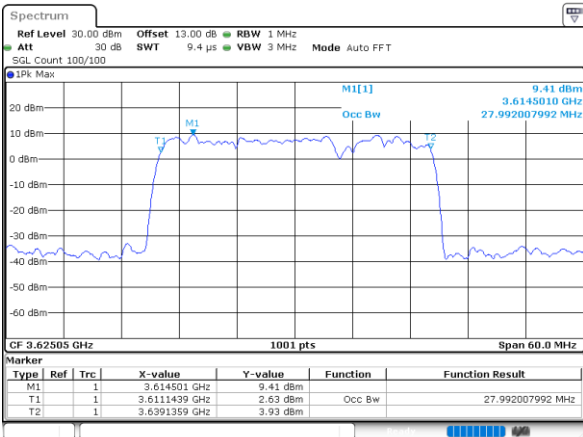
Date: 16_JUL_2020 00:11:38

Lowest Channel / 20MHz+15MHz



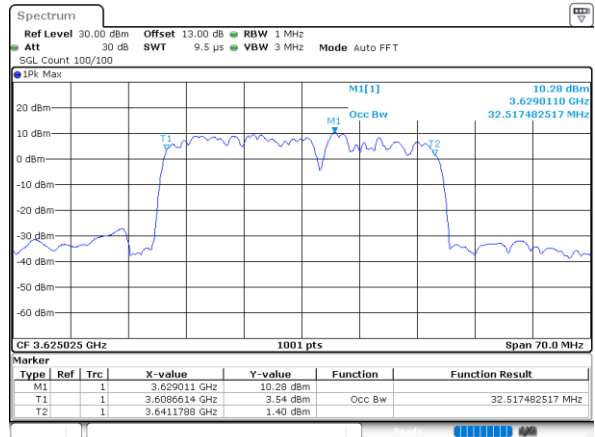
Date: 7_JUL_2020 20:29:28

Middle Channel / 20MHz+10MHz



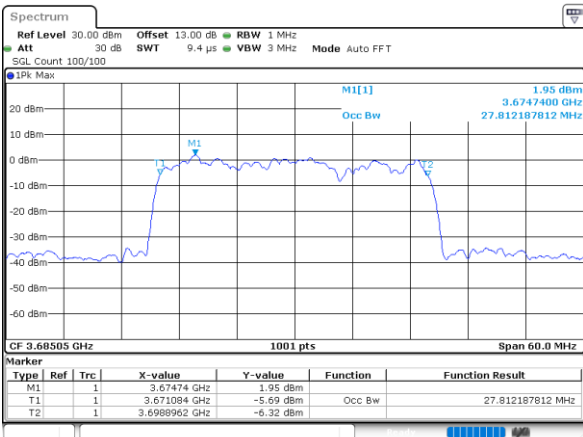
Date: 16_JUL_2020 01:02:38

Middle Channel / 20MHz+15MHz



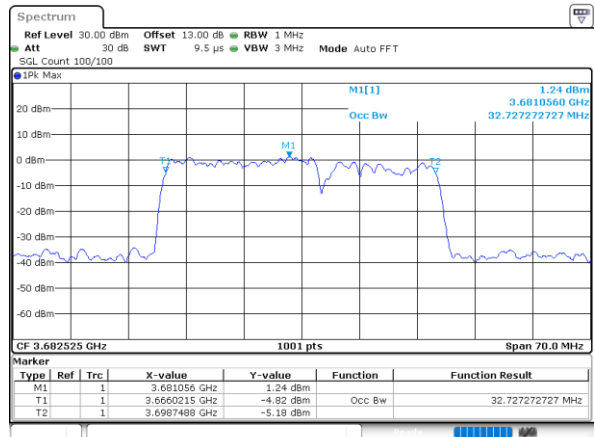
Date: 7_JUL_2020 20:32:46

Highest Channel / 20MHz+10MHz



Date: 16_JUL_2020 01:44:29

Highest Channel / 20MHz+15MHz



Date: 7_JUL_2020 22:22:32

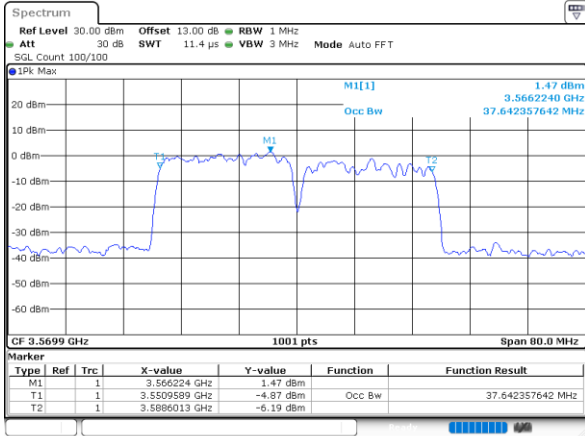


LTE Band 48C

QPSK

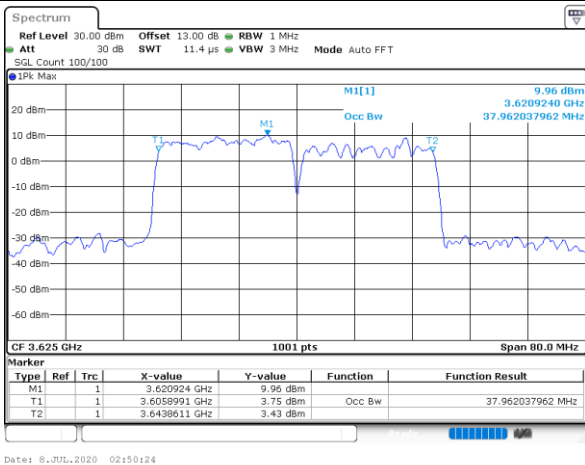
Lowest Channel / 20MHz+20MHz

N/A



Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A

