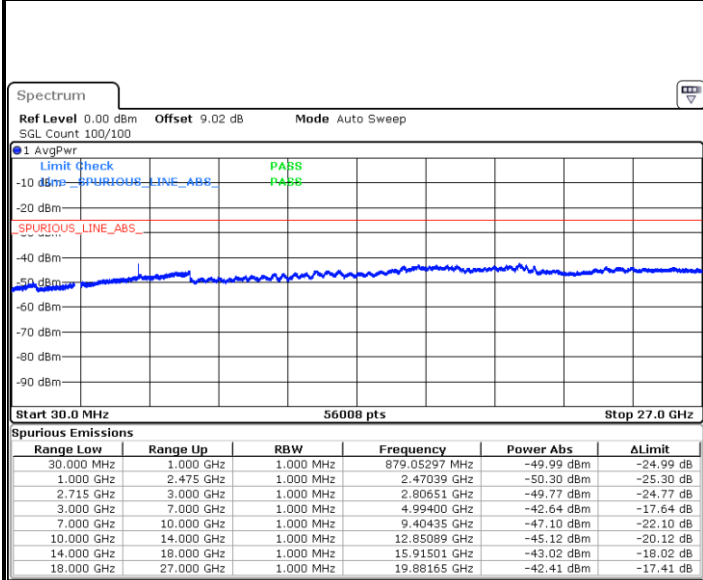




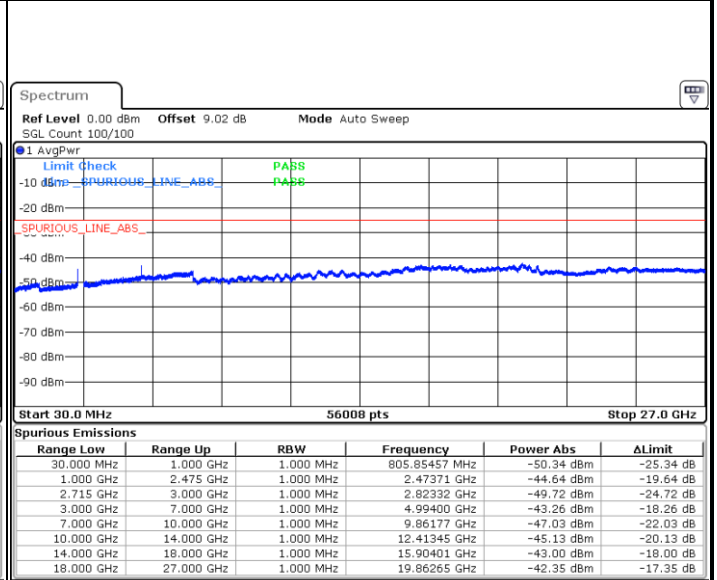
LTE Band 41 / 15MHz

Lowest Channel / QPSK



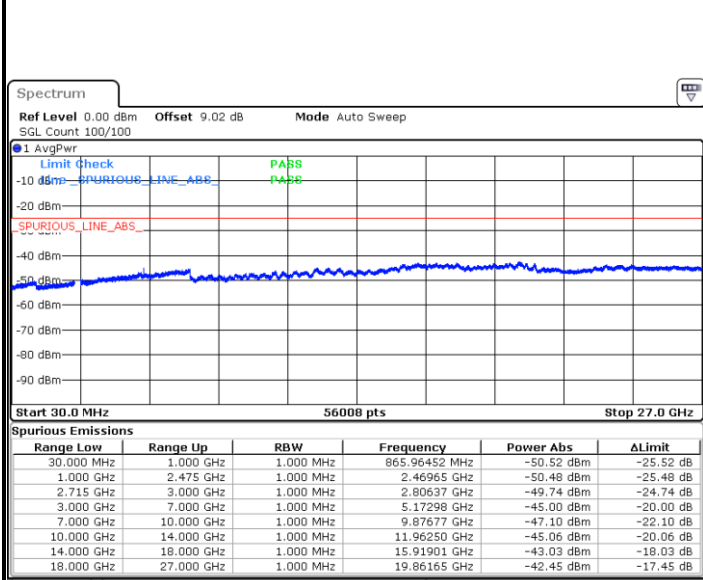
Date: 12 SEP. 2020 03:19:11

Lowest Channel / 16QAM



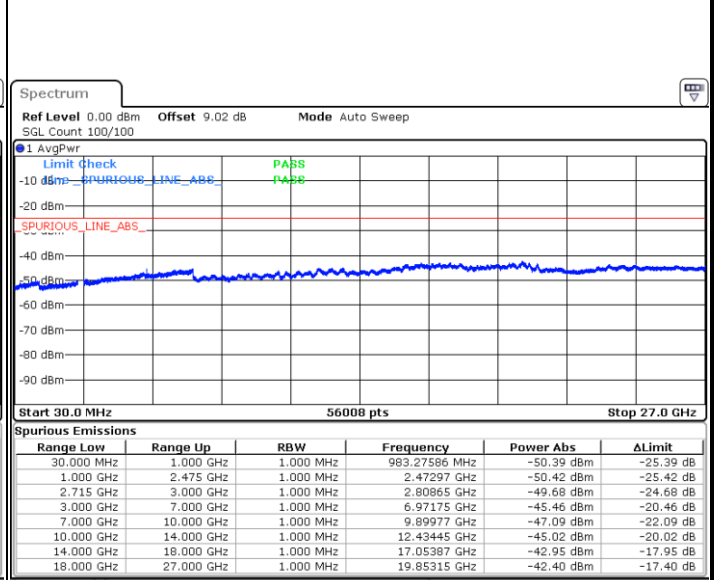
Date: 12 SEP. 2020 03:20:06

Middle Channel / QPSK



Date: 12 SEP. 2020 03:21:00

Middle Channel / 16QAM

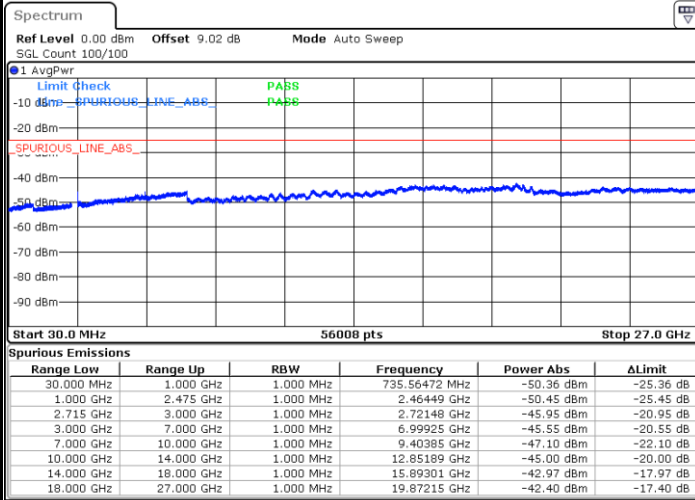


Date: 12 SEP. 2020 03:21:55



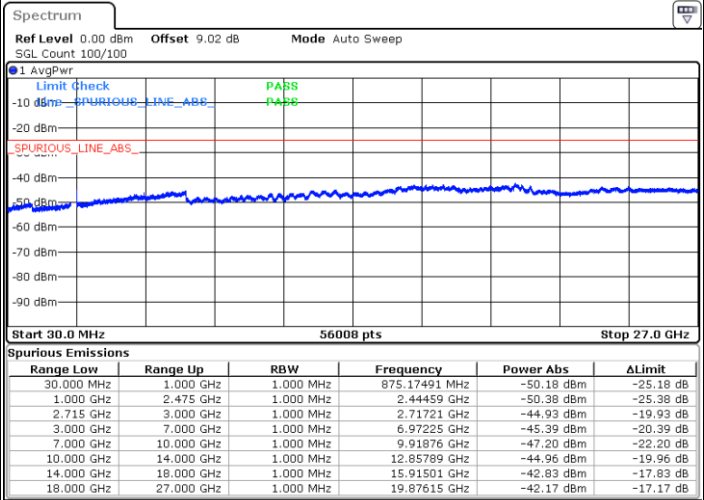
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 12 SEP. 2020 03:27:21

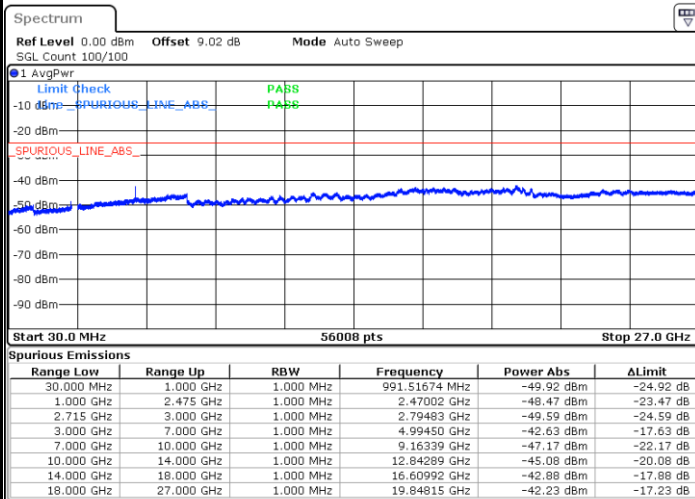
Highest Channel / 16QAM



Date: 12 SEP. 2020 03:28:16

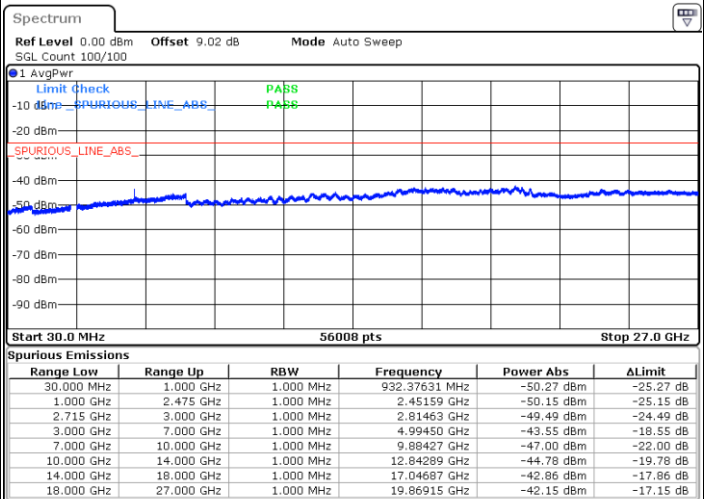
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 12 SEP. 2020 03:34:32

Lowest Channel / 16QAM



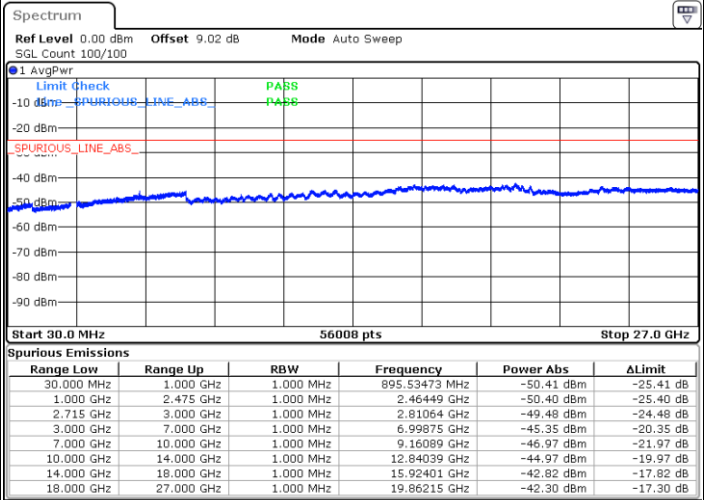
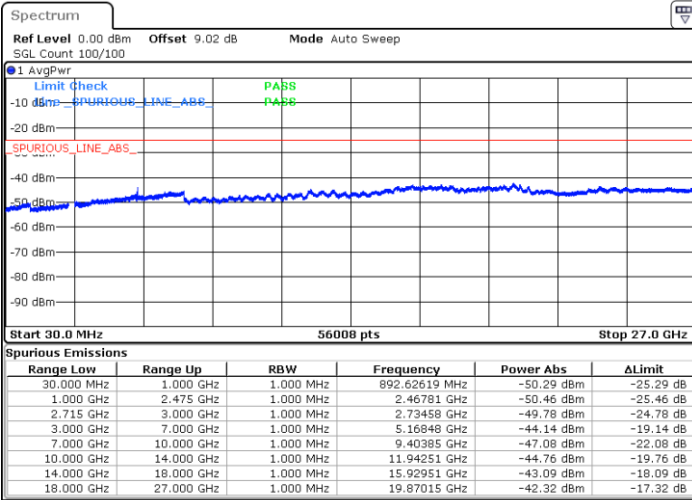
Date: 12 SEP. 2020 03:35:26



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

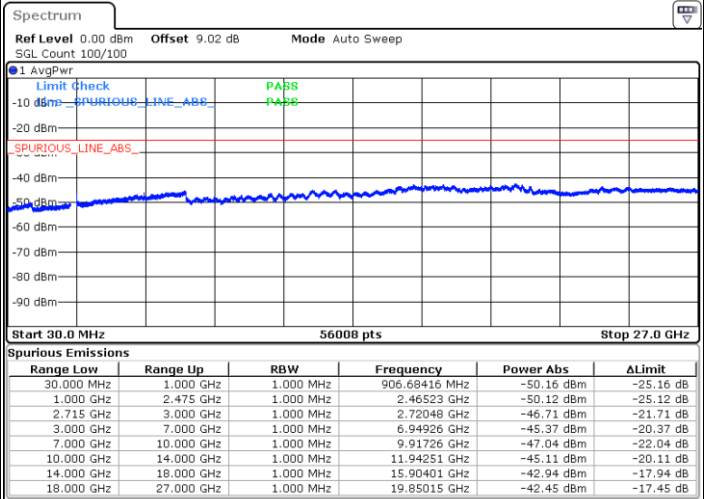
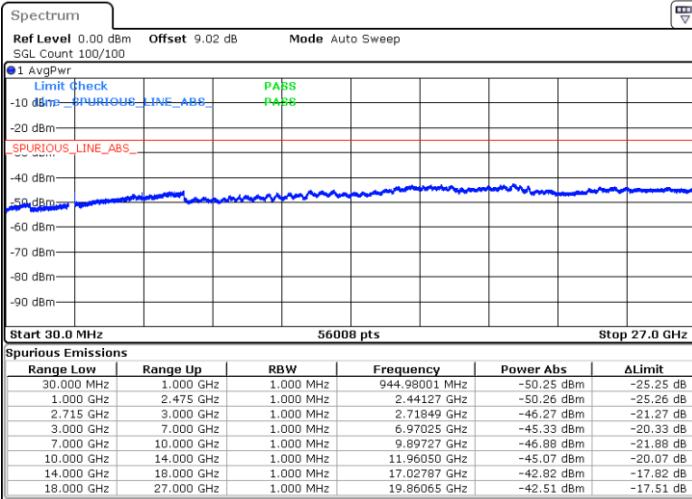


Date: 12 SEP 2020 03:36:20

Date: 12 SEP 2020 03:37:15

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 12 SEP 2020 03:42:42

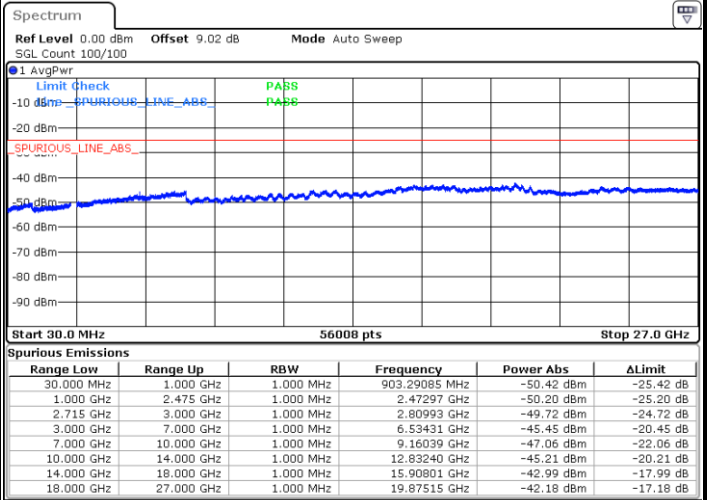
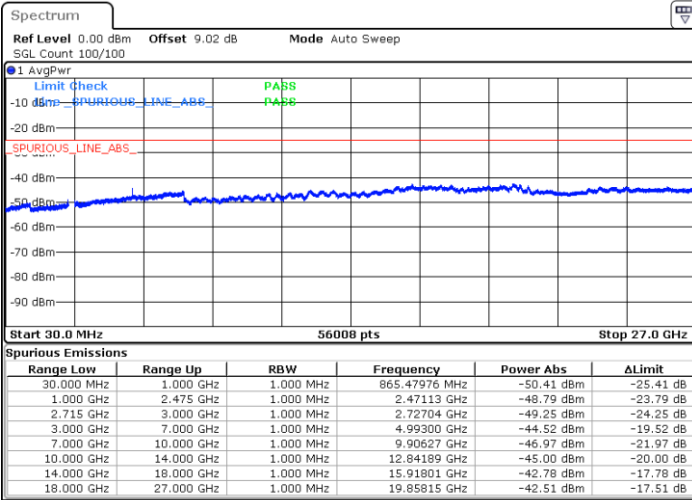
Date: 12 SEP 2020 03:43:36



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

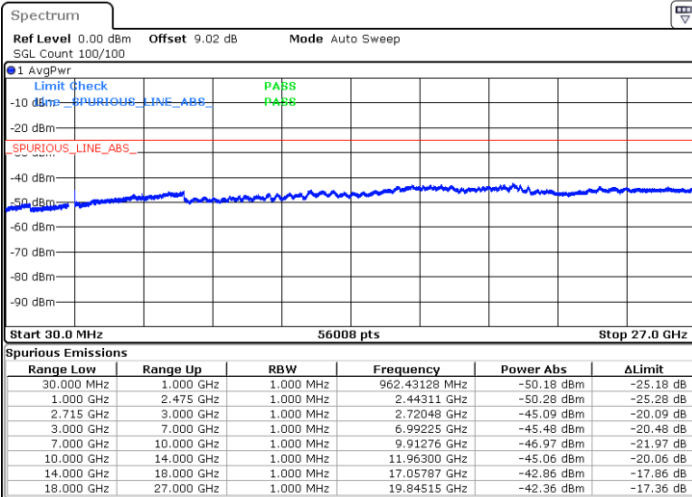
Middle Channel / 64QAM



Date: 12 SEP.2020 04:10:31

Date: 12 SEP.2020 04:11:26

Highest Channel / 64QAM



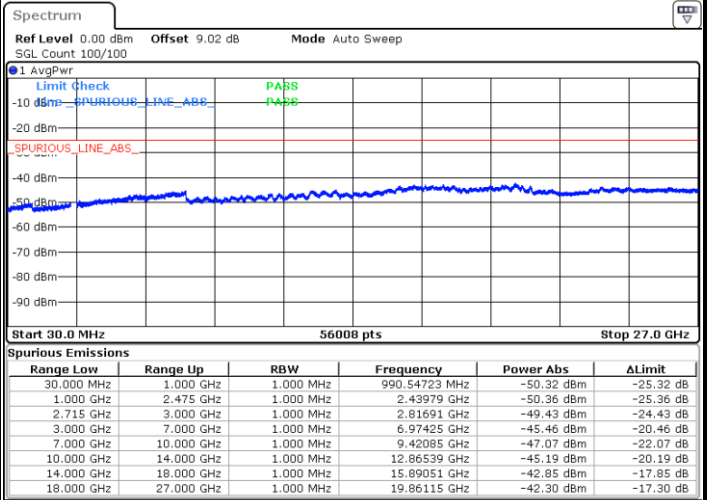
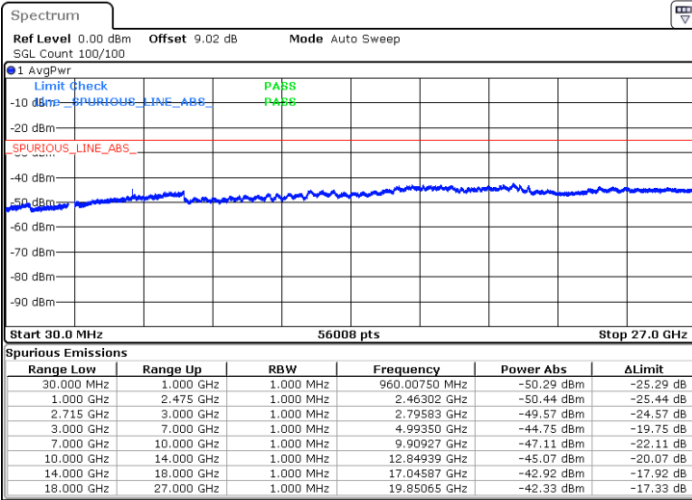
Date: 12 SEP.2020 04:12:20



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

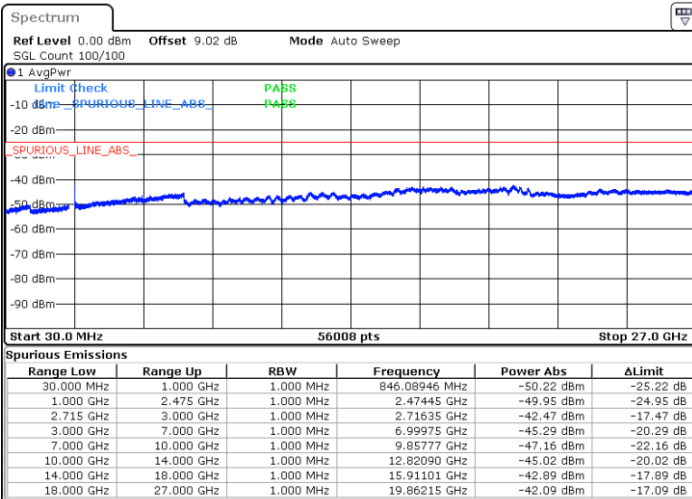
Middle Channel / 64QAM



Date: 12 SEP 2020 04:14:05

Date: 12 SEP 2020 04:15:00

Highest Channel / 64QAM



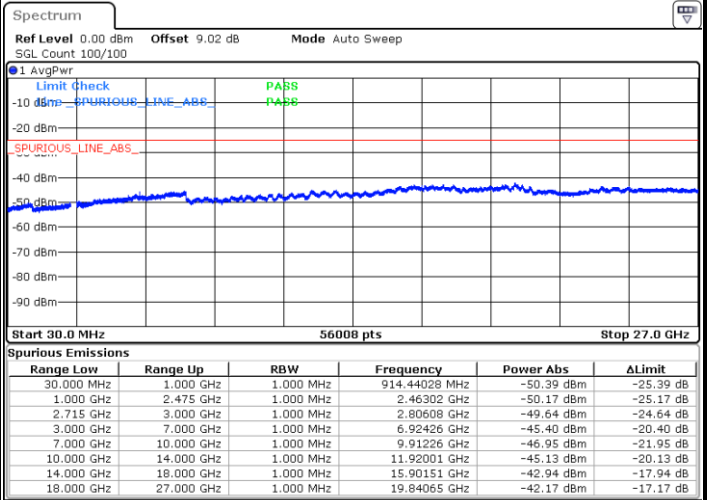
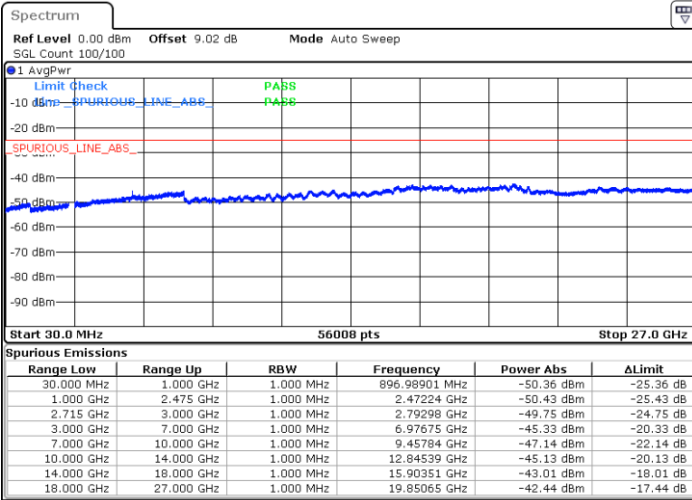
Date: 12 SEP 2020 04:15:55



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

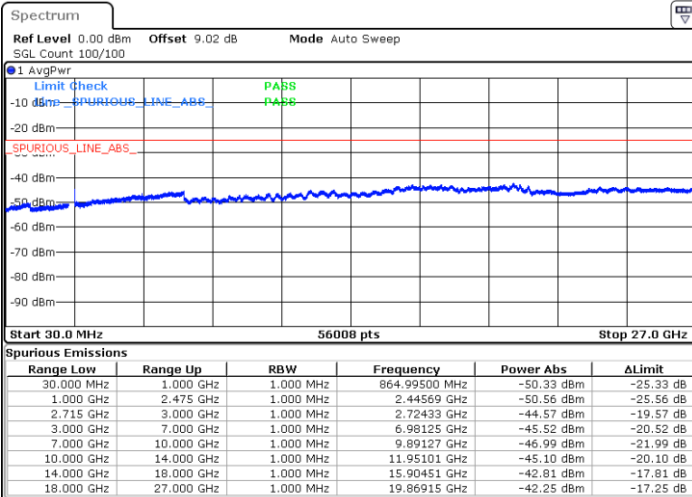
Middle Channel / 64QAM



Date: 12 SEP 2020 04:17:55

Date: 12 SEP 2020 04:18:50

Highest Channel / 64QAM



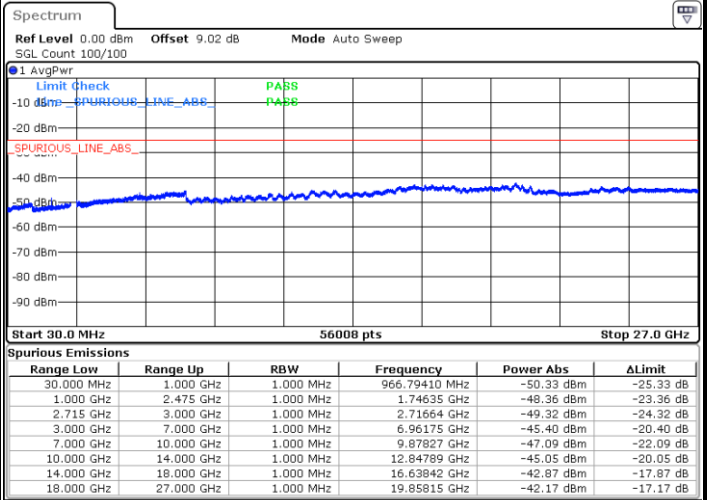
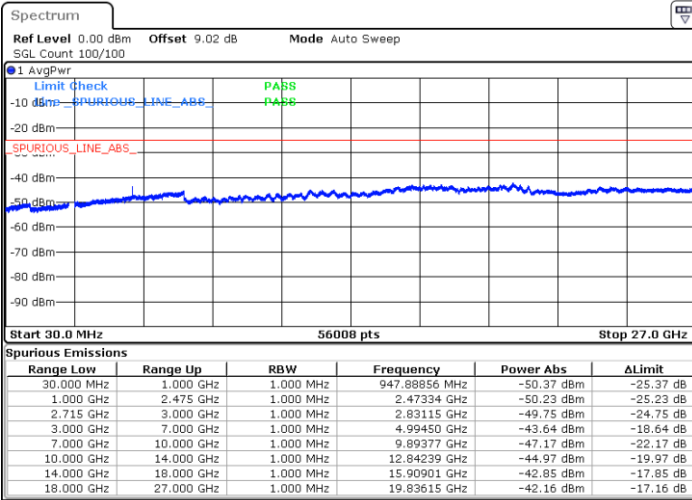
Date: 12 SEP 2020 04:19:44



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

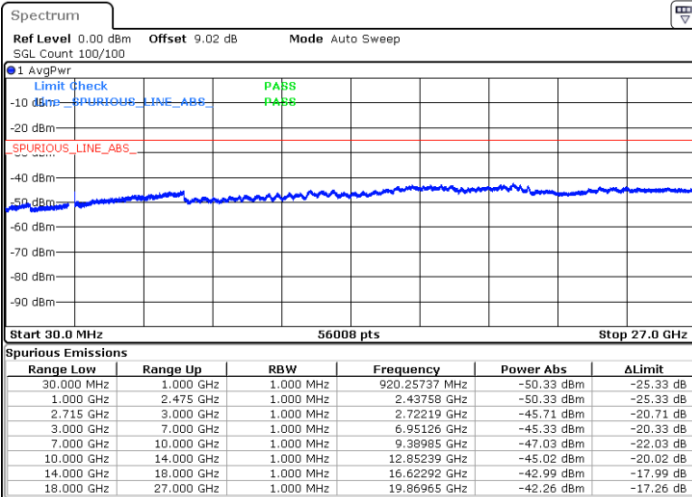
Middle Channel / 64QAM



Date: 12 SEP 2020 04:21:04

Date: 12 SEP 2020 04:21:59

Highest Channel / 64QAM



Date: 12 SEP 2020 04:22:53



### Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0027	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.





# LTE Band 7C

## 26dB Bandwidth

Mode	LTE Band 7C : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.85	25.48	30.81	35.04
Middle CH	29.85	25.57	30.69	35.04
Highest CH	29.97	25.52	30.81	34.97
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.33	35.25	40.04	-
Middle CH	30.27	35.11	39.88	-
Highest CH	30.09	35.18	40.04	-

Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.85	25.43	30.75	34.97
Middle CH	29.91	25.38	30.45	35.04
Highest CH	29.79	25.28	30.57	35.04
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.09	35.18	39.80	-
Middle CH	30.15	35.11	40.12	-
Highest CH	30.15	35.11	39.80	-

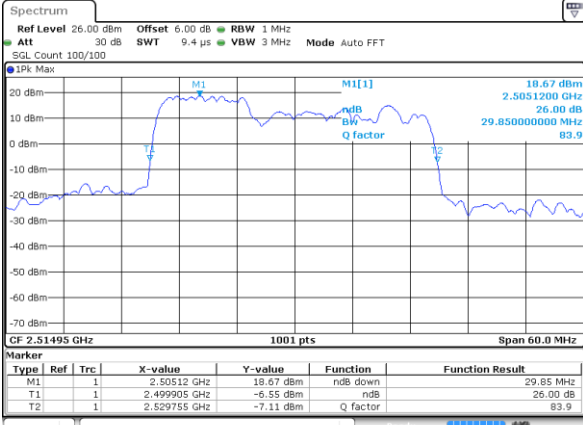
Mode	LTE Band 7C : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.79	25.33	30.75	35.04
Middle CH	29.97	25.52	30.57	34.97
Highest CH	29.91	25.33	30.51	34.97
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.21	35.04	39.96	-
Middle CH	30.03	34.97	39.88	-
Highest CH	30.21	35.11	39.80	-



LTE Band 7C

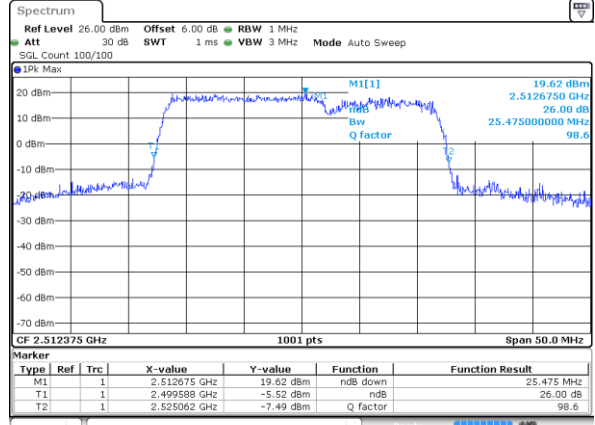
QPSK

Lowest Channel / 10MHz+20MHz



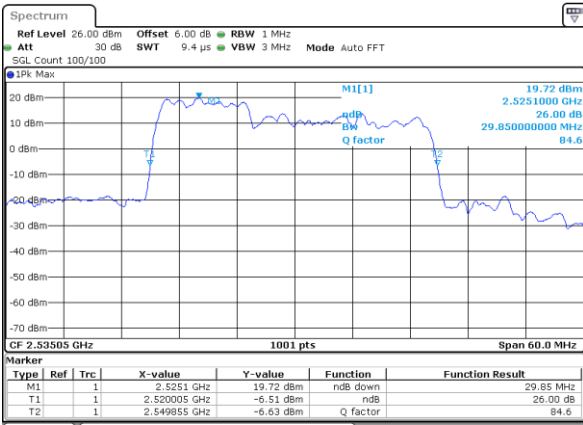
Date: 17.SEP.2020 00:04:29

Lowest Channel / 15MHz+10MHz



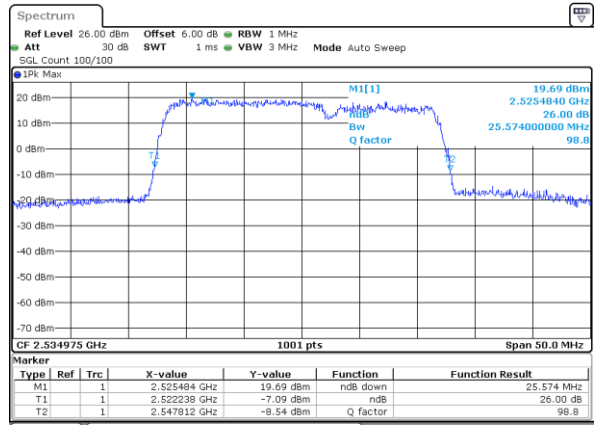
Date: 17.SEP.2020 00:14:36

Middle Channel / 10MHz+20MHz



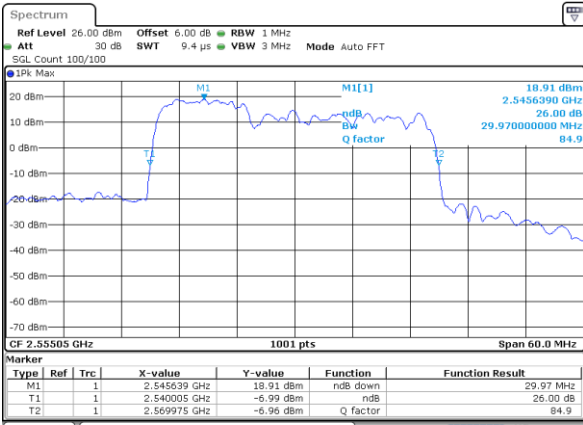
Date: 17.SEP.2020 00:06:35

Middle Channel / 15MHz+10MHz



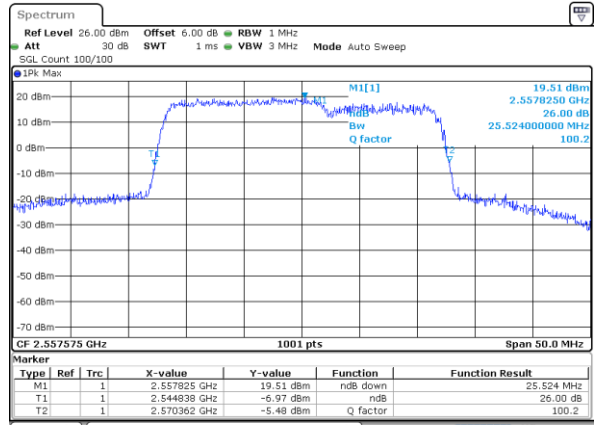
Date: 17.SEP.2020 00:10:20

Highest Channel / 10MHz+20MHz



Date: 17.SEP.2020 00:07:18

Highest Channel / 15MHz+10MHz



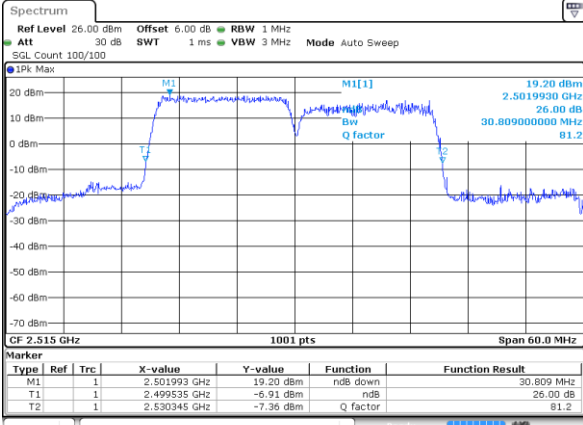
Date: 17.SEP.2020 00:17:39



LTE Band 7C

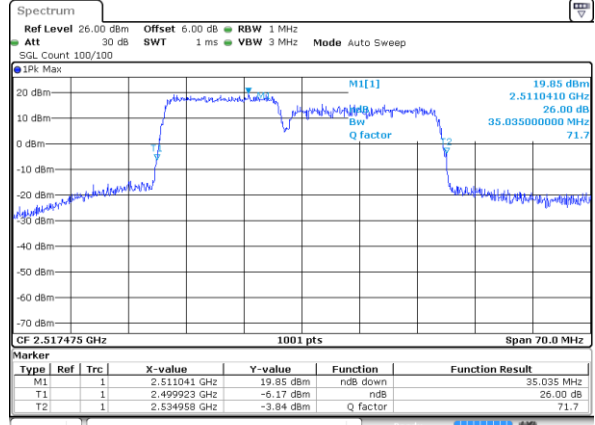
QPSK

Lowest Channel / 15MHz+15MHz



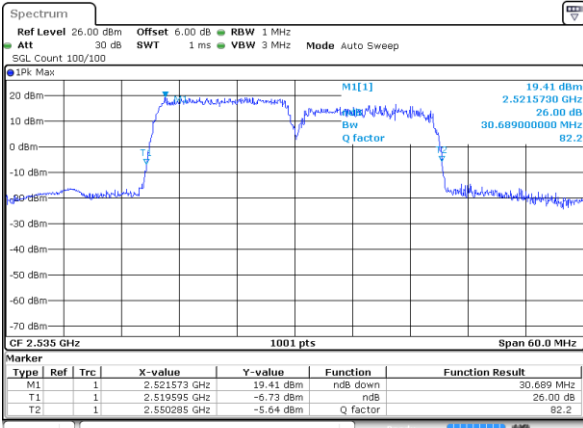
Date: 17.SEP.2020 00:19:47

Lowest Channel / 15MHz+20MHz



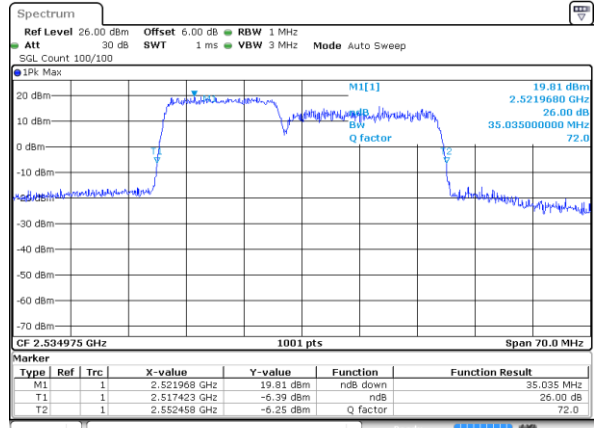
Date: 17.SEP.2020 00:20:08

Middle Channel / 15MHz+15MHz



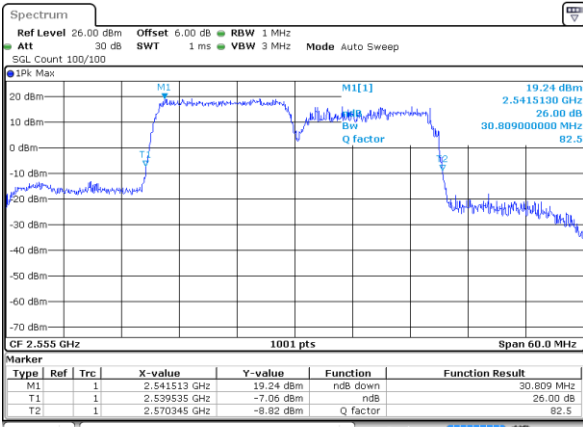
Date: 17.SEP.2020 00:20:43

Middle Channel / 15MHz+20MHz



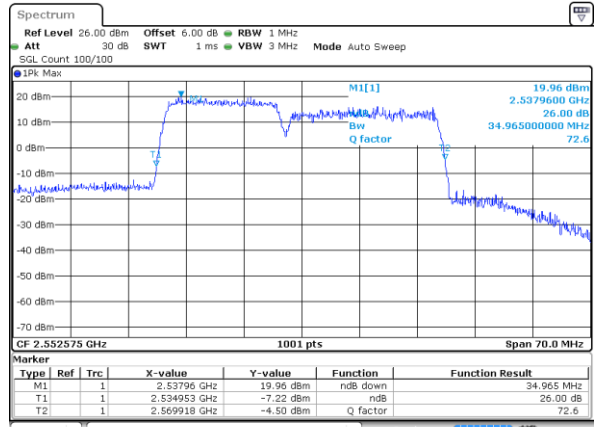
Date: 17.SEP.2020 00:26:14

Highest Channel / 15MHz+15MHz



Date: 17.SEP.2020 00:22:22

Highest Channel / 15MHz+20MHz



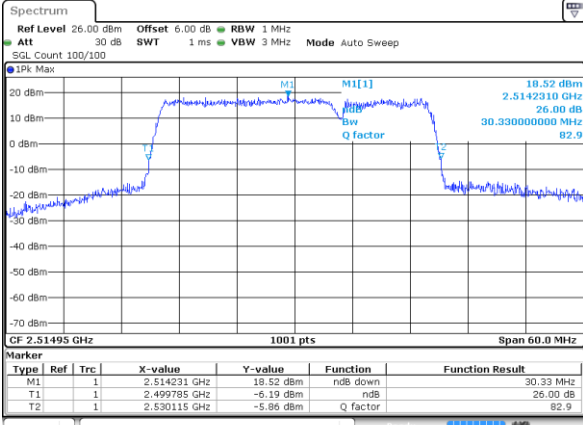
Date: 17.SEP.2020 00:27:00



LTE Band 7C

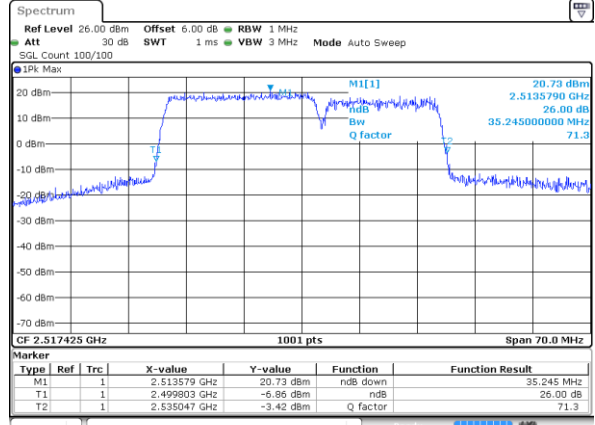
QPSK

Lowest Channel / 20MHz+10MHz



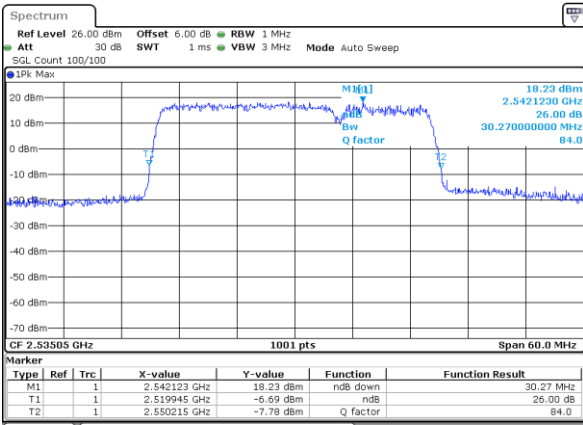
Date: 17.SEP.2020 00:29:22

Lowest Channel / 20MHz+15MHz



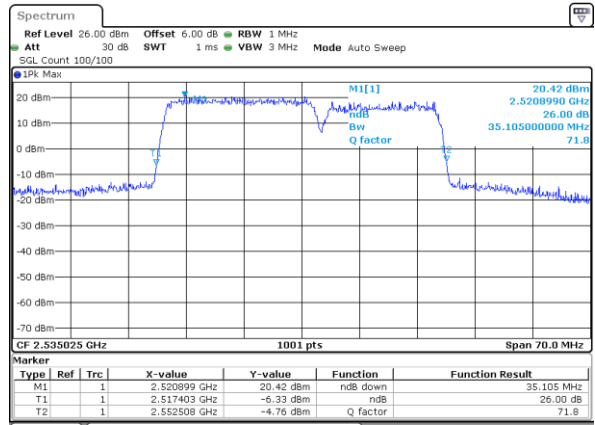
Date: 17.SEP.2020 00:32:58

Middle Channel / 20MHz+10MHz



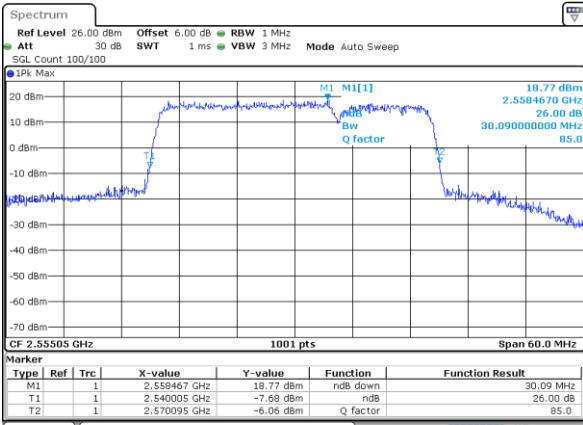
Date: 17.SEP.2020 00:30:02

Middle Channel / 20MHz+15MHz



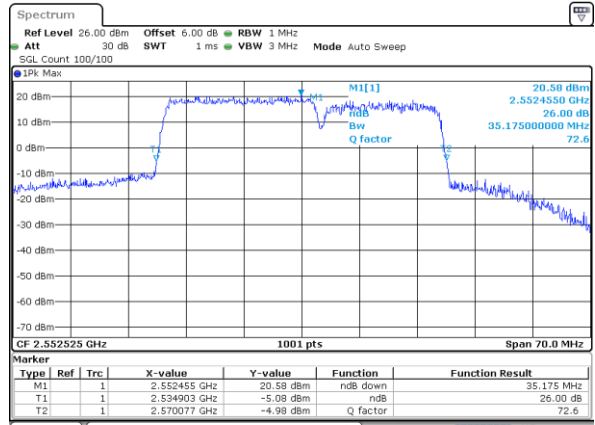
Date: 17.SEP.2020 00:35:01

Highest Channel / 20MHz+10MHz



Date: 17.SEP.2020 00:31:56

Highest Channel / 20MHz+15MHz



Date: 17.SEP.2020 00:35:37

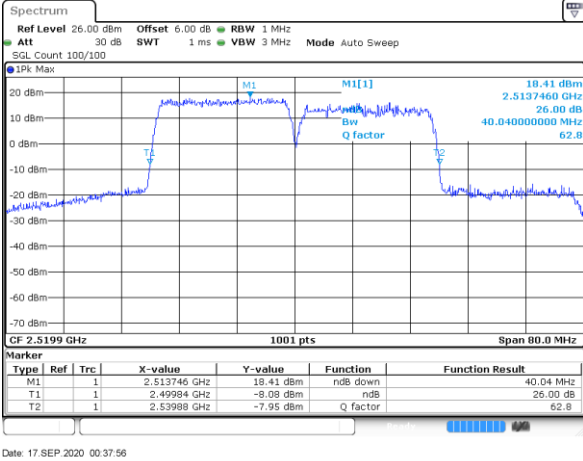


LTE Band 7C

QPSK

Lowest Channel / 20MHz+20MHz

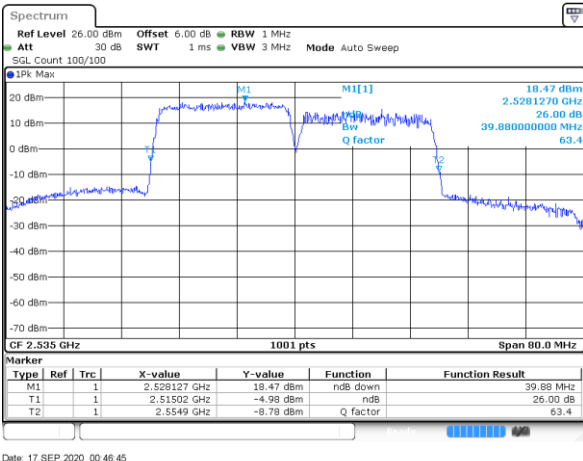
N/A



Date: 17.SEP.2020 00:37:56

Middle Channel / 20MHz+20MHz

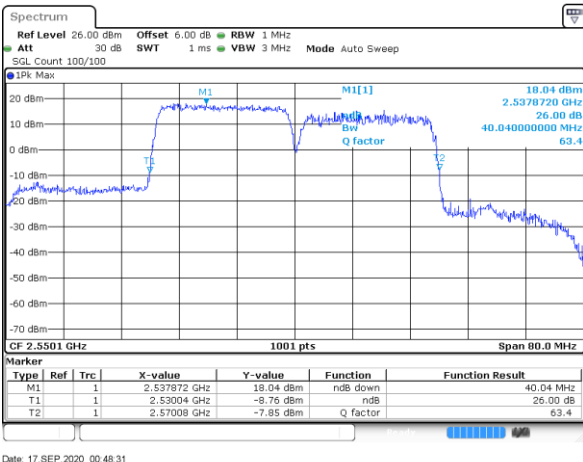
N/A



Date: 17.SEP.2020 00:46:45

Highest Channel / 20MHz+20MHz

N/A



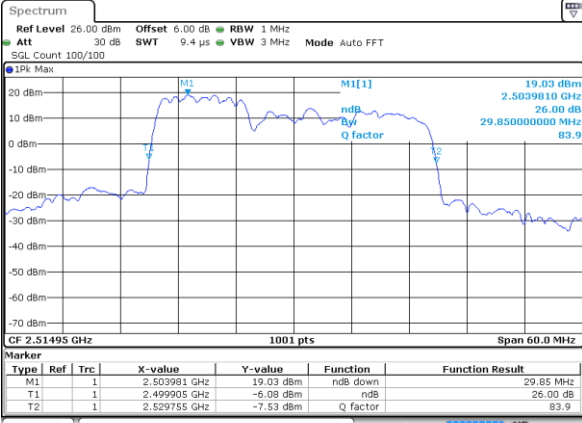
Date: 17.SEP.2020 00:48:31



LTE Band 7C

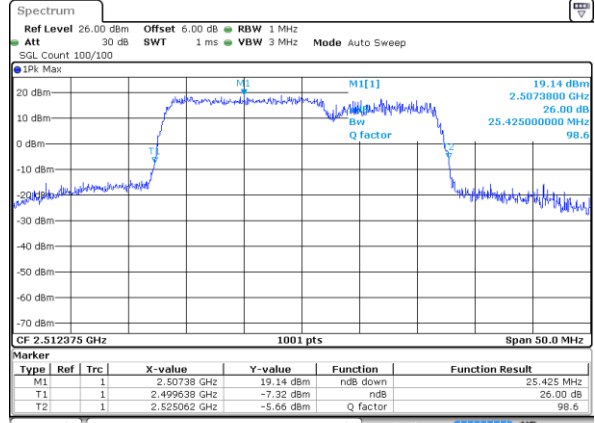
16QAM

Lowest Channel / 10MHz+20MHz



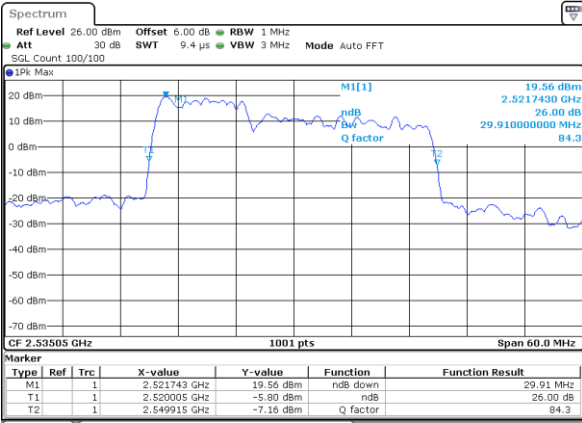
Date: 17.SEP.2020 00:04:52

Lowest Channel / 15MHz+10MHz



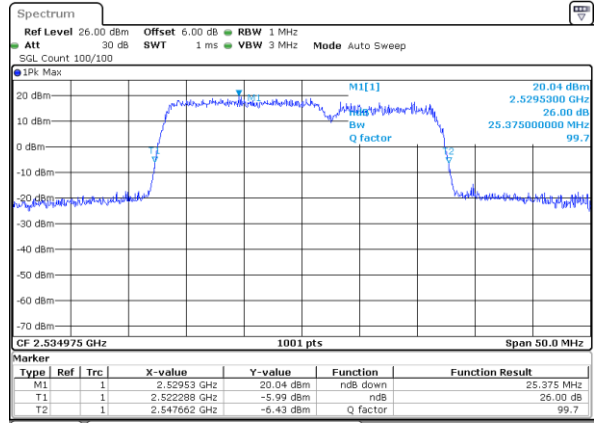
Date: 17.SEP.2020 00:14:55

Middle Channel / 10MHz+20MHz



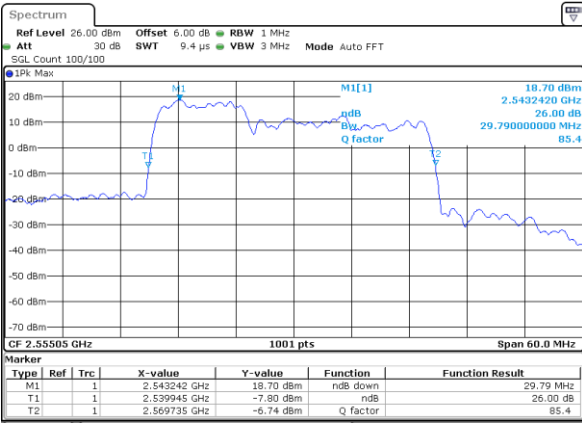
Date: 17.SEP.2020 00:06:17

Middle Channel / 15MHz+10MHz



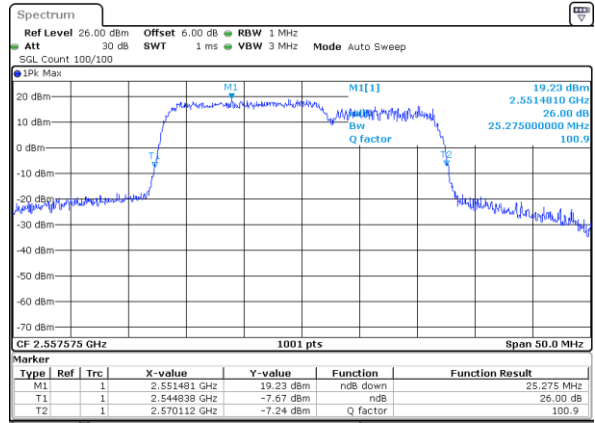
Date: 17.SEP.2020 00:16:46

Highest Channel / 10MHz+20MHz



Date: 17.SEP.2020 00:07:36

Highest Channel / 15MHz+10MHz



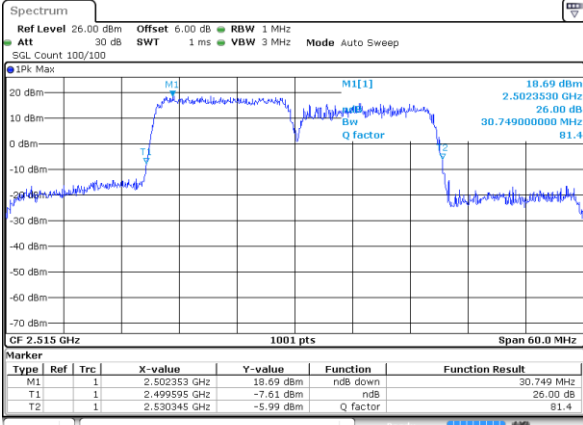
Date: 17.SEP.2020 00:17:54



LTE Band 7C

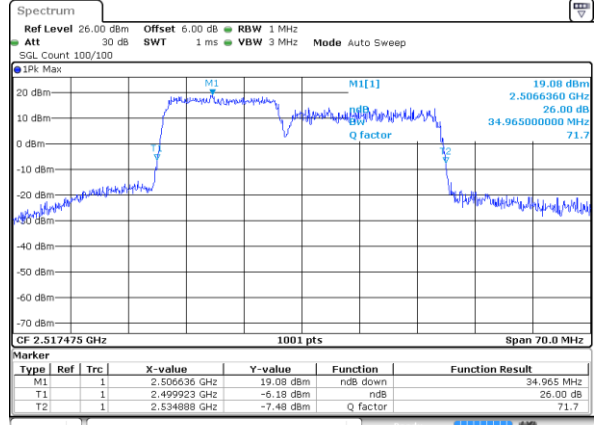
16QAM

Lowest Channel / 15MHz+15MHz



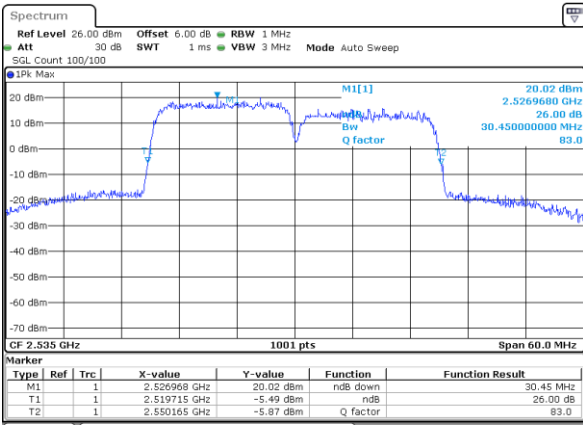
Date: 17.SEP.2020 00:19:34

Lowest Channel / 15MHz+20MHz



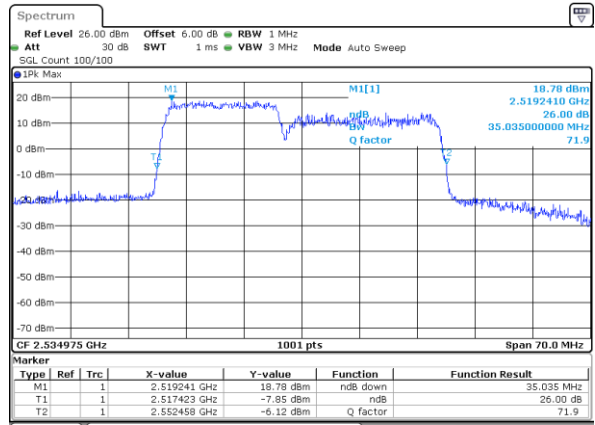
Date: 17.SEP.2020 00:24:43

Middle Channel / 15MHz+15MHz



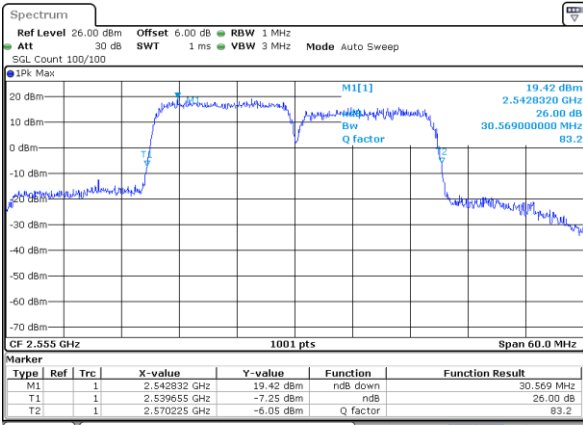
Date: 17.SEP.2020 00:20:58

Middle Channel / 15MHz+20MHz



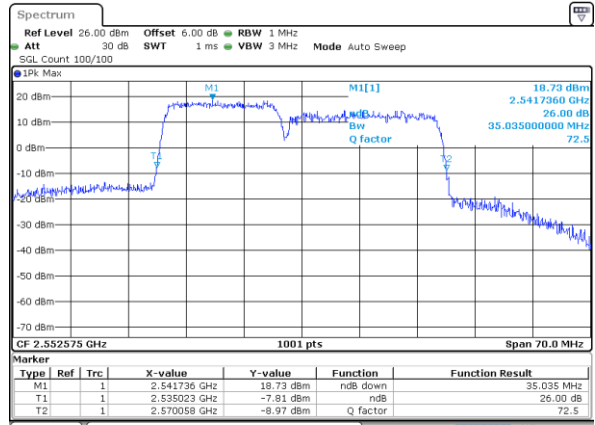
Date: 17.SEP.2020 00:25:58

Highest Channel / 15MHz+15MHz



Date: 17.SEP.2020 00:22:07

Highest Channel / 15MHz+20MHz



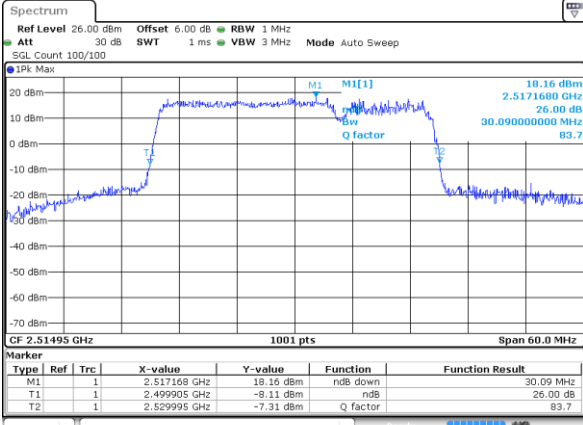
Date: 17.SEP.2020 00:27:15



LTE Band 7C

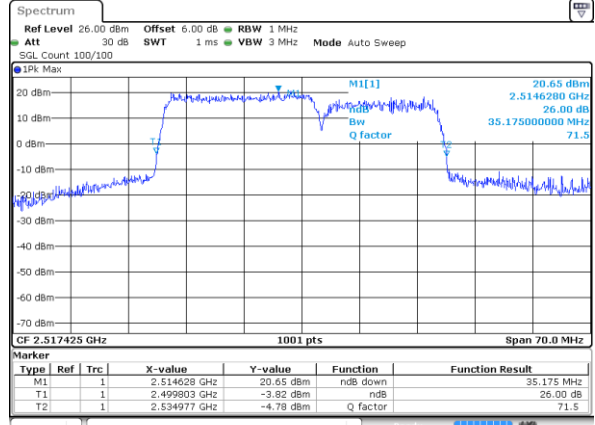
16QAM

Lowest Channel / 20MHz+10MHz



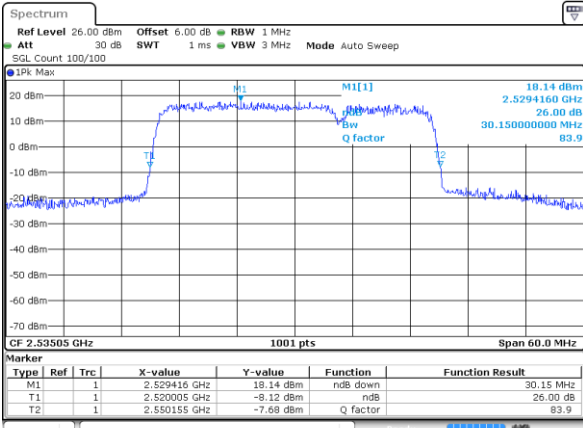
Date: 17.SEP.2020 00:29:09

Lowest Channel / 20MHz+15MHz



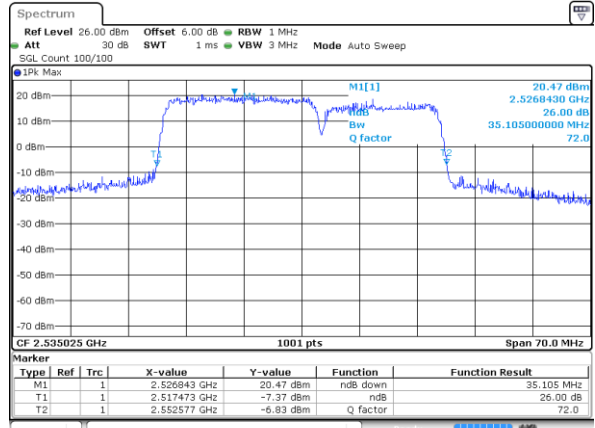
Date: 17.SEP.2020 00:33:14

Middle Channel / 20MHz+10MHz



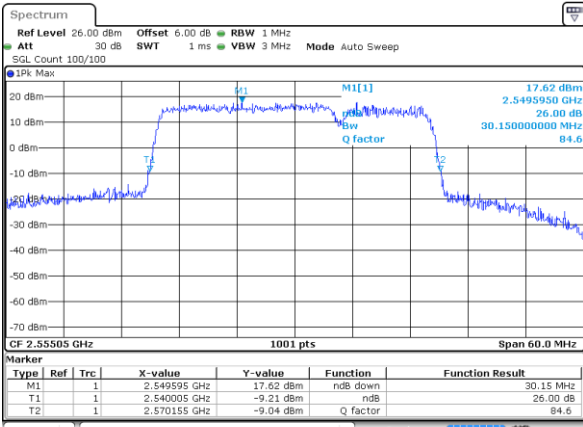
Date: 17.SEP.2020 00:30:20

Middle Channel / 20MHz+15MHz



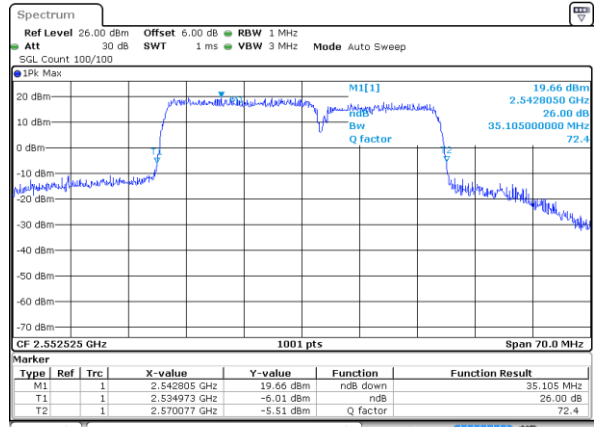
Date: 17.SEP.2020 00:34:34

Highest Channel / 20MHz+10MHz



Date: 17.SEP.2020 00:31:43

Highest Channel / 20MHz+15MHz



Date: 17.SEP.2020 00:35:52



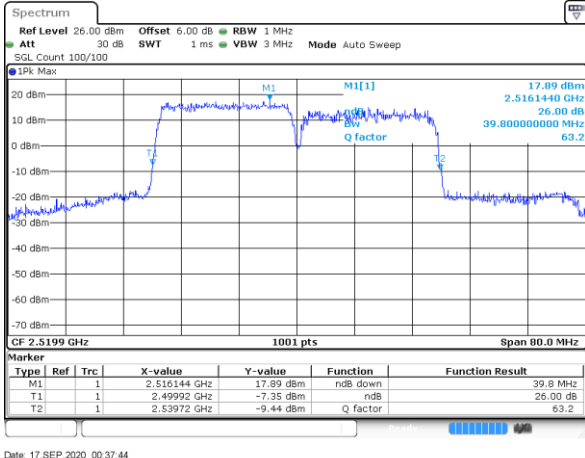


LTE Band 7C

16QAM

Lowest Channel / 20MHz+20MHz

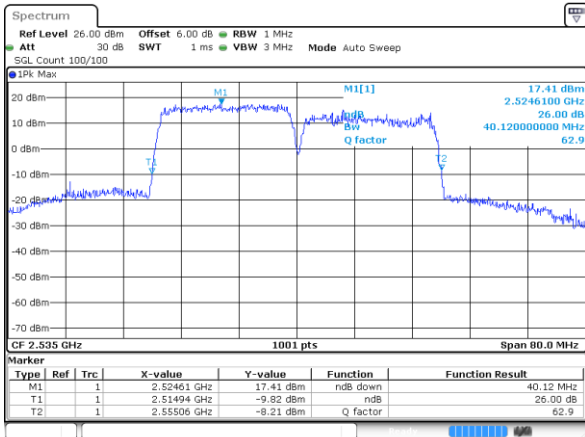
N/A



Date: 17.SEP.2020 00:37:44

Middle Channel / 20MHz+20MHz

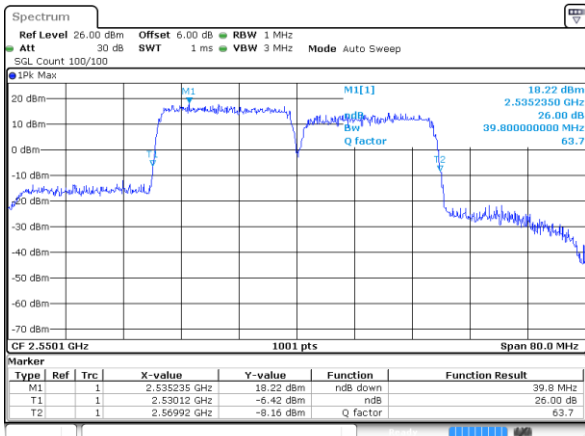
N/A



Date: 17.SEP.2020 00:47:01

Highest Channel / 20MHz+20MHz

N/A



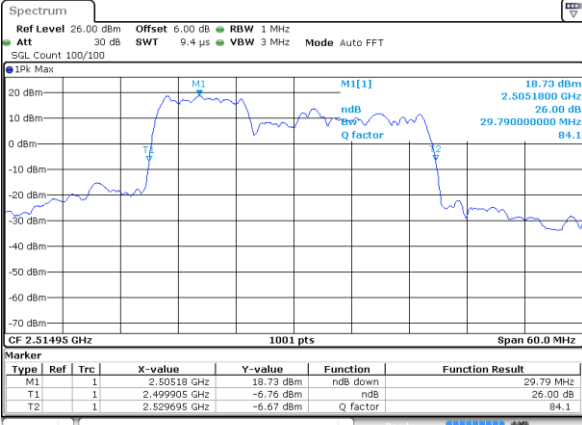
Date: 17.SEP.2020 00:48:17



LTE Band 7C

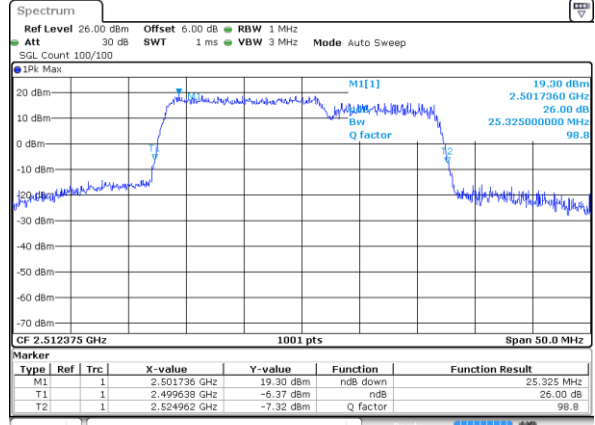
64QAM

Lowest Channel / 10MHz+20MHz



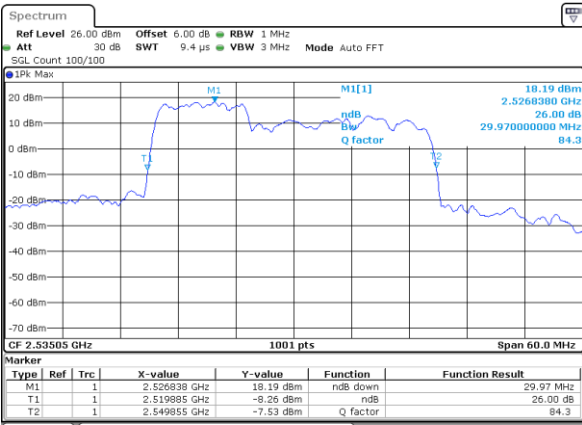
Date: 17.SEP.2020 00:05:10

Lowest Channel / 15MHz+10MHz



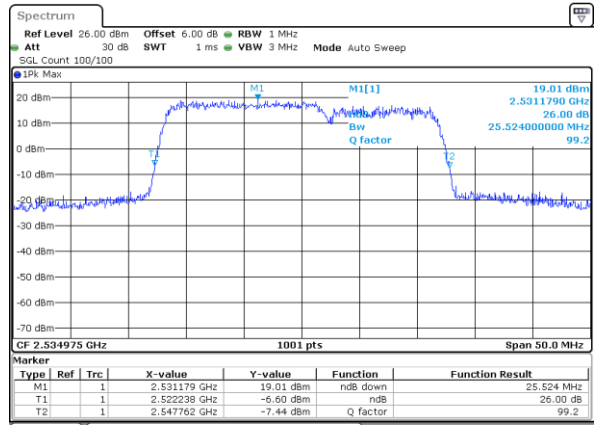
Date: 17.SEP.2020 00:15:39

Middle Channel / 10MHz+20MHz



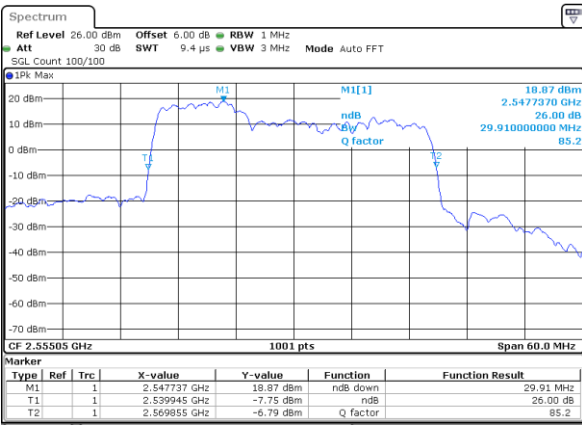
Date: 17.SEP.2020 00:05:56

Middle Channel / 15MHz+10MHz



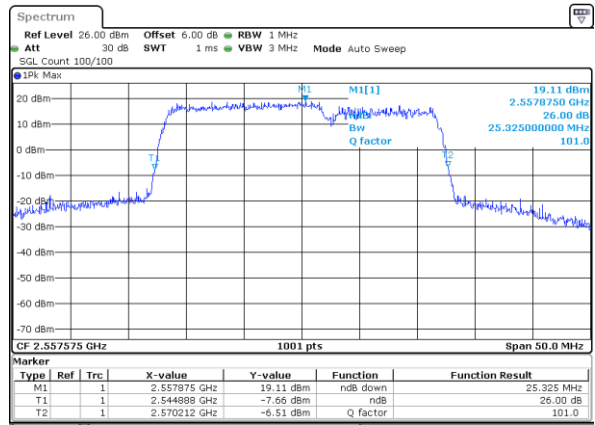
Date: 17.SEP.2020 00:16:29

Highest Channel / 10MHz+20MHz



Date: 17.SEP.2020 00:07:58

Highest Channel / 15MHz+10MHz



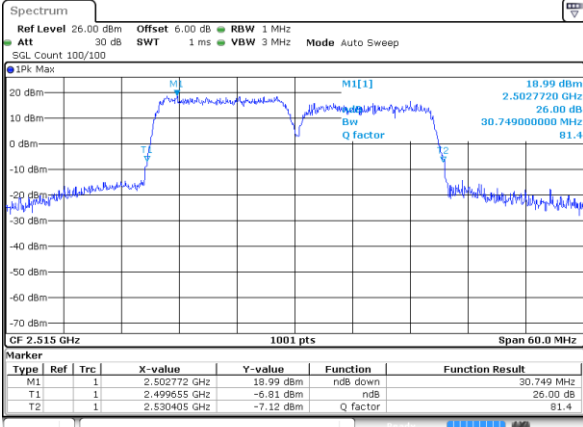
Date: 17.SEP.2020 00:18:12



LTE Band 7C

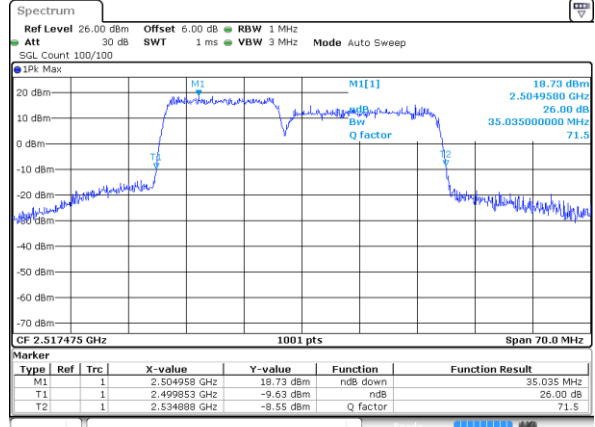
64QAM

Lowest Channel / 15MHz+15MHz



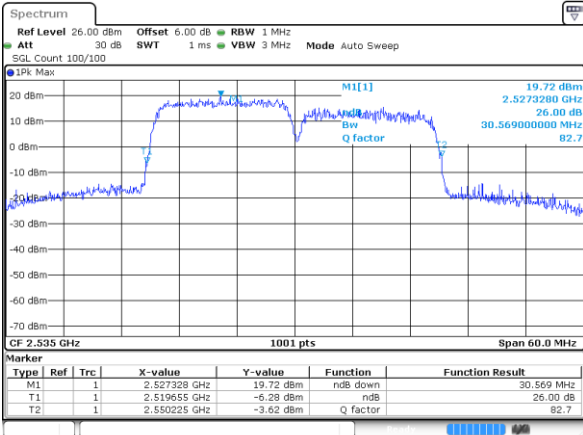
Date: 17.SEP.2020 00:19:17

Lowest Channel / 15MHz+20MHz



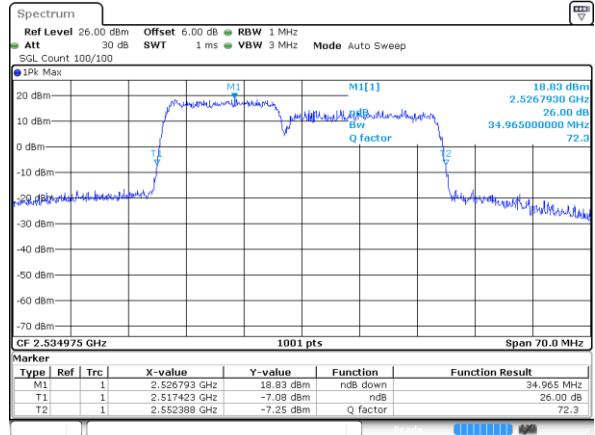
Date: 17.SEP.2020 00:24:58

Middle Channel / 15MHz+15MHz



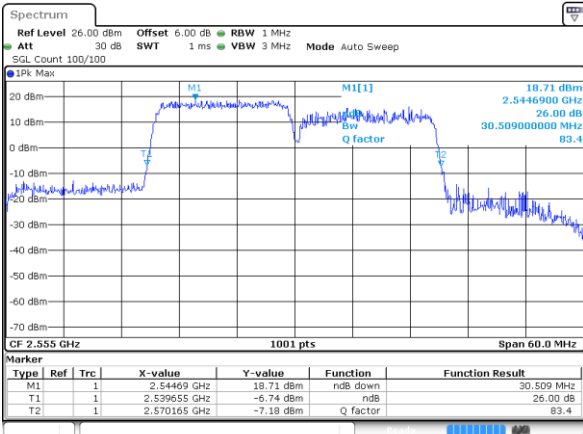
Date: 17.SEP.2020 00:21:13

Middle Channel / 15MHz+20MHz



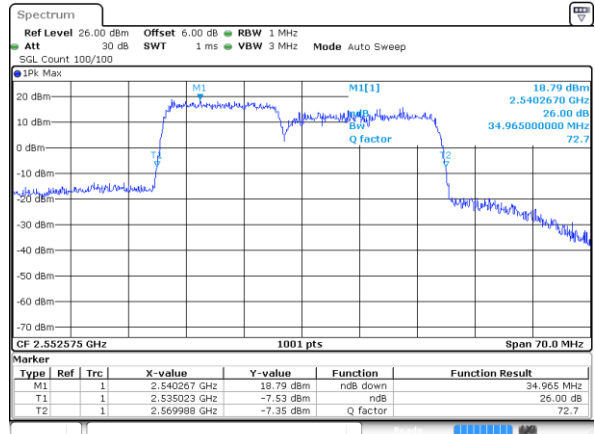
Date: 17.SEP.2020 00:24:41

Highest Channel / 15MHz+15MHz



Date: 17.SEP.2020 00:21:51

Highest Channel / 15MHz+20MHz



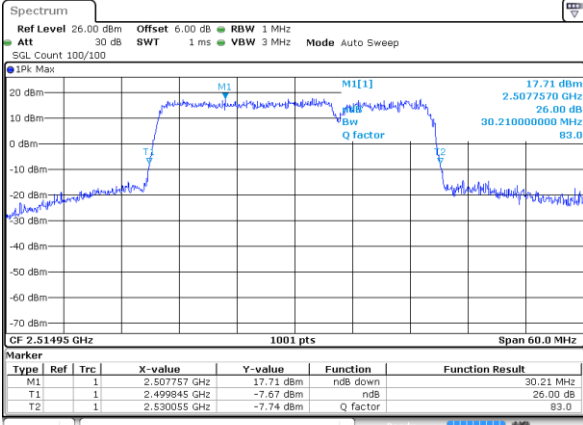
Date: 17.SEP.2020 00:27:31



LTE Band 7C

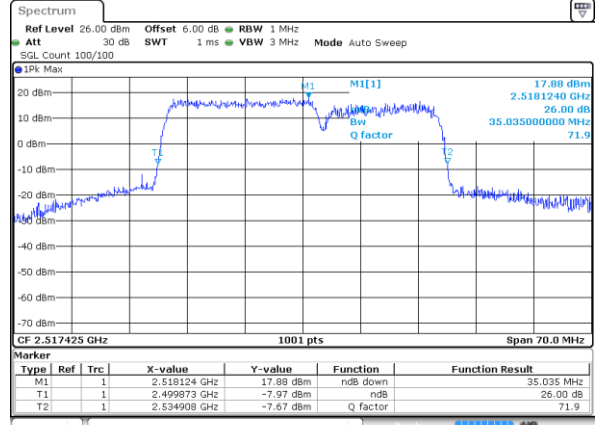
64QAM

Lowest Channel / 20MHz+10MHz



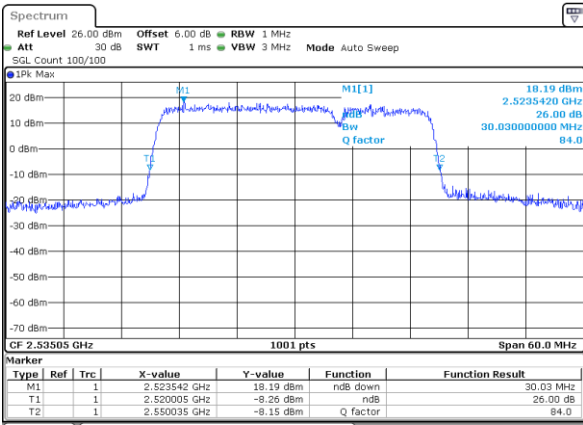
Date: 17.SEP.2020 00:28:48

Lowest Channel / 20MHz+15MHz



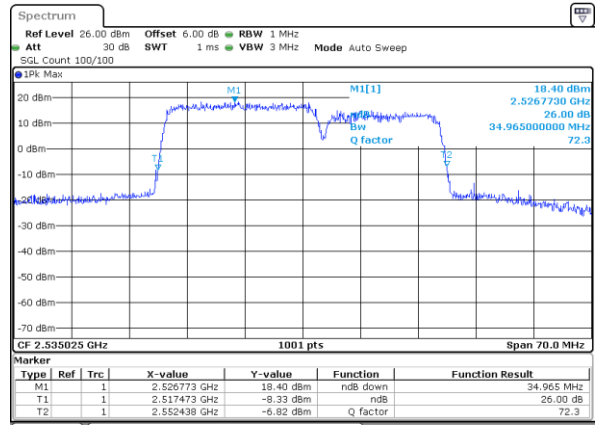
Date: 17.SEP.2020 00:33:31

Middle Channel / 20MHz+10MHz



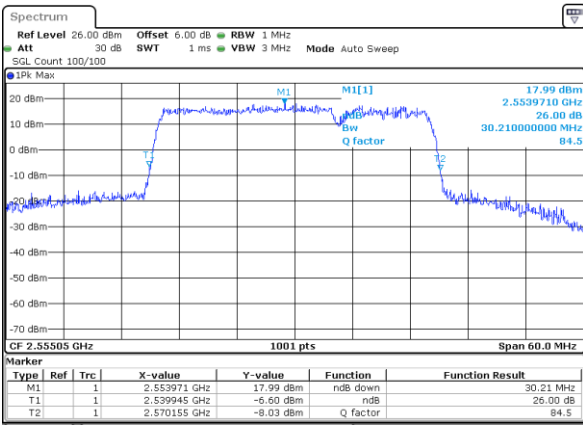
Date: 17.SEP.2020 00:30:35

Middle Channel / 20MHz+15MHz



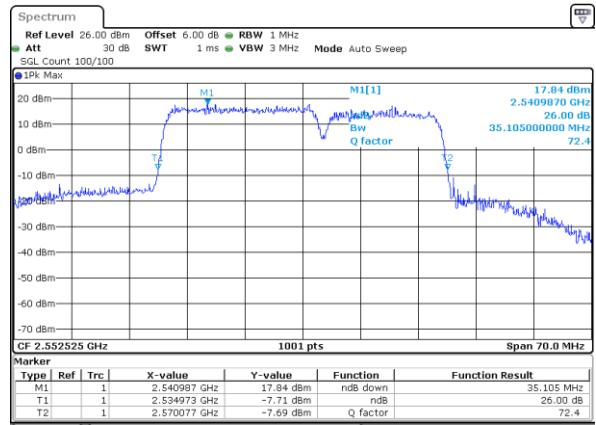
Date: 17.SEP.2020 00:34:17

Highest Channel / 20MHz+10MHz



Date: 17.SEP.2020 00:31:28

Highest Channel / 20MHz+15MHz



Date: 17.SEP.2020 00:36:07

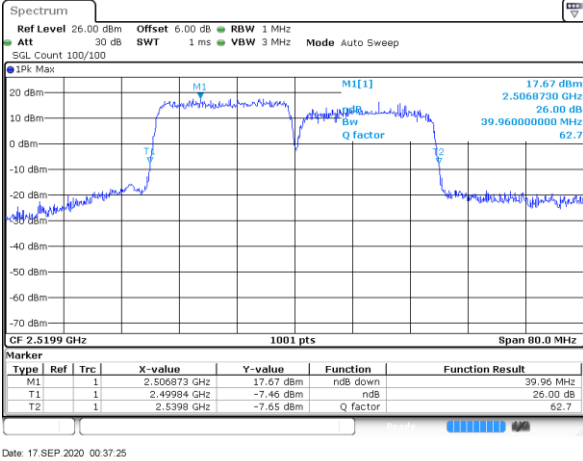


LTE Band 7C

64QAM

Lowest Channel / 20MHz+20MHz

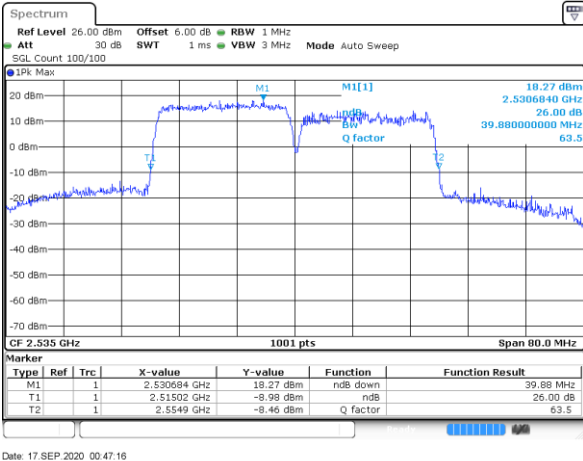
N/A



Date: 17.SEP.2020 00:37:25

Middle Channel / 20MHz+20MHz

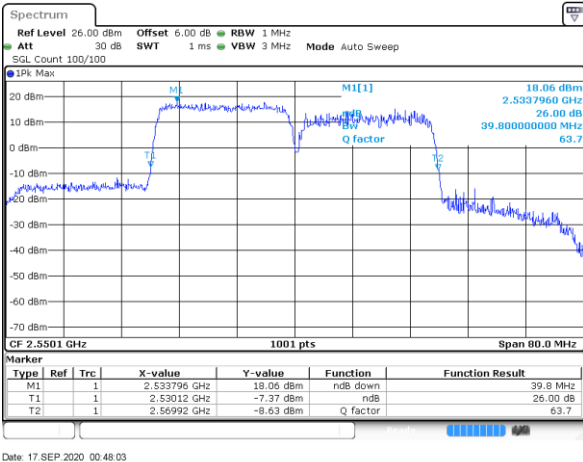
N/A



Date: 17.SEP.2020 00:47:16

Highest Channel / 20MHz+20MHz

N/A



Date: 17.SEP.2020 00:48:03



### Occupied Bandwidth

Mode	LTE Band 7C : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	27.99	23.58	28.65	32.73
Middle CH	27.63	23.48	28.53	32.87
Highest CH	27.87	23.43	28.53	32.94
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.99	33.01	37.64	-
Middle CH	28.05	32.80	37.72	-
Highest CH	27.93	32.73	37.64	-

Mode	LTE Band 7C : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	28.11	23.58	28.59	32.80
Middle CH	28.17	23.43	28.47	32.73
Highest CH	28.35	23.38	28.59	32.94
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	28.11	32.73	37.64	-
Middle CH	27.99	32.73	37.72	-
Highest CH	28.05	32.87	37.80	-

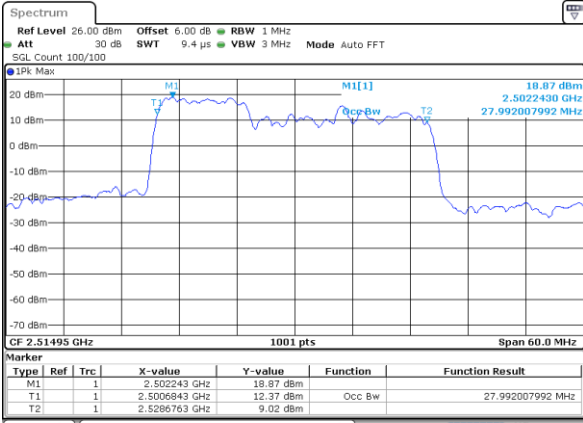
Mode	LTE Band 7C : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	27.99	23.53	28.53	32.80
Middle CH	27.81	23.38	28.47	32.80
Highest CH	27.93	23.43	28.53	32.87
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	28.05	32.87	37.64	-
Middle CH	28.05	32.73	37.48	-
Highest CH	28.05	32.87	37.64	-



LTE Band 7C

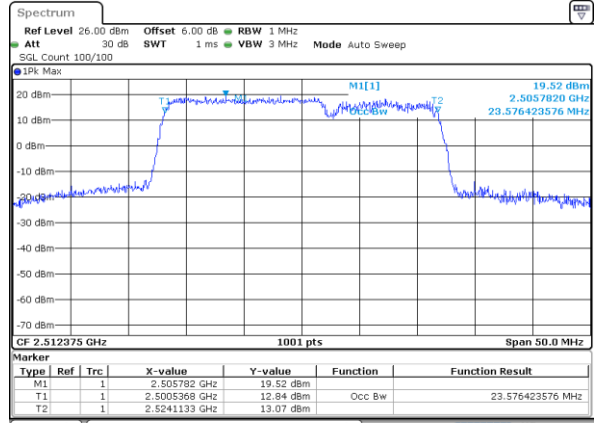
QPSK

Lowest Channel / 10MHz+20MHz



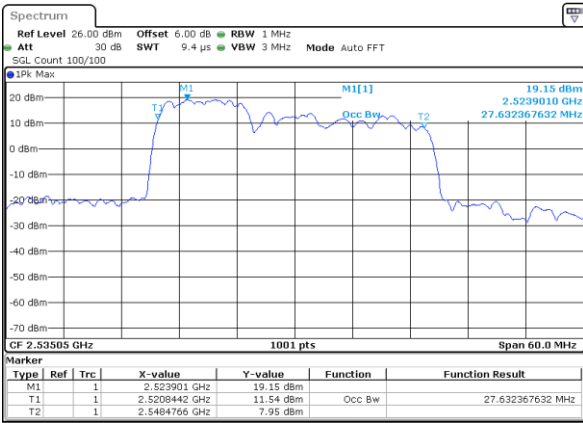
Date: 17.SEP.2020 00:04:24

Lowest Channel / 15MHz+10MHz



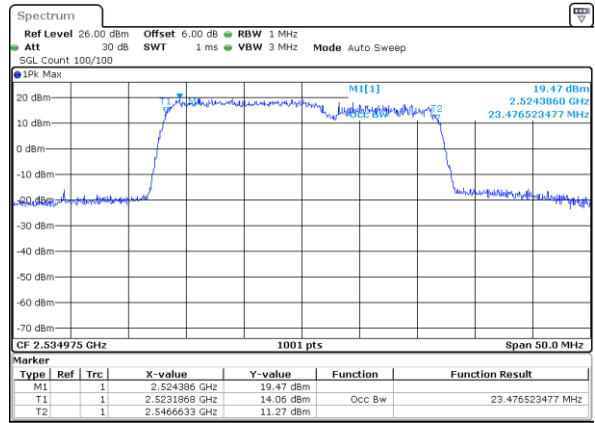
Date: 17.SEP.2020 00:14:31

Middle Channel / 10MHz+20MHz



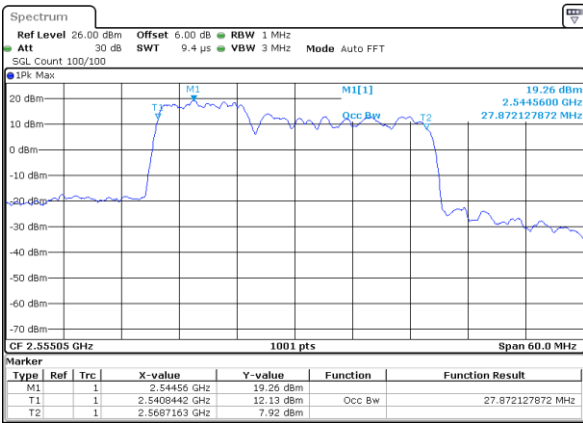
Date: 17.SEP.2020 00:06:28

Middle Channel / 15MHz+10MHz



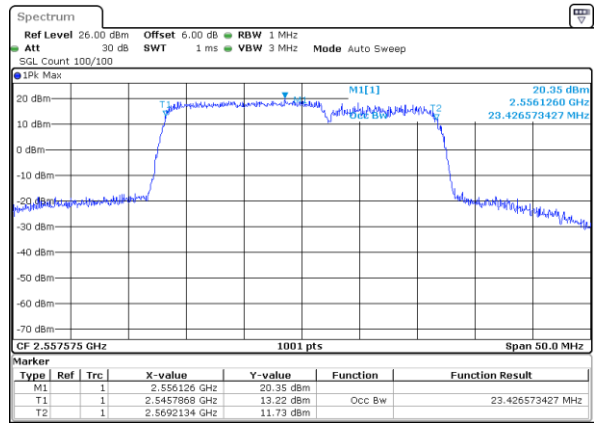
Date: 17.SEP.2020 00:16:57

Highest Channel / 10MHz+20MHz



Date: 17.SEP.2020 00:07:12

Highest Channel / 15MHz+10MHz



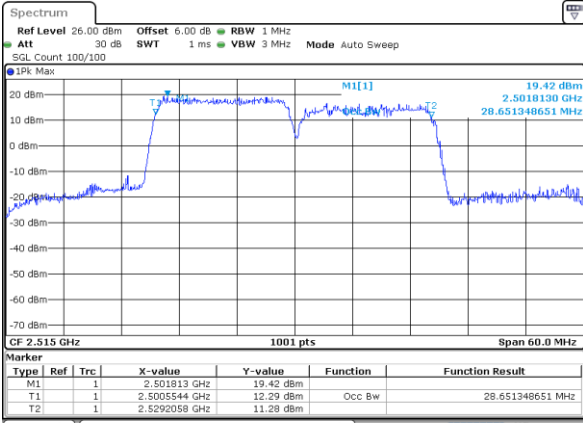
Date: 17.SEP.2020 00:17:34



LTE Band 7C

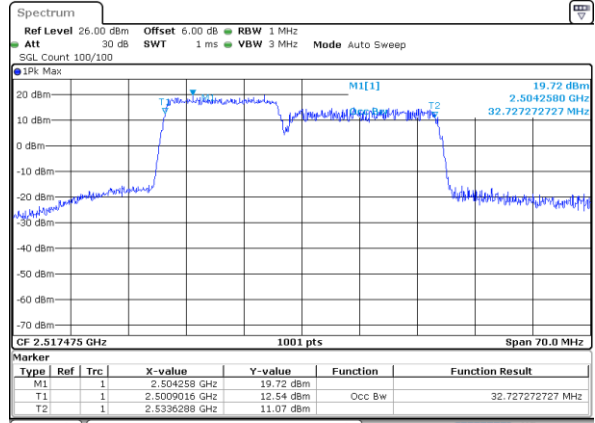
QPSK

Lowest Channel / 15MHz+15MHz



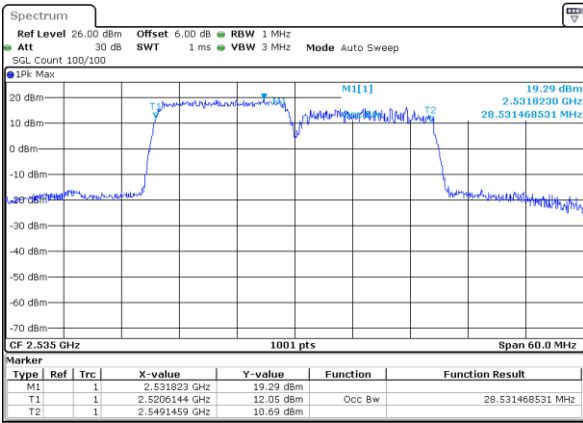
Date: 17.SEP.2020 00:19:42

Lowest Channel / 15MHz+20MHz



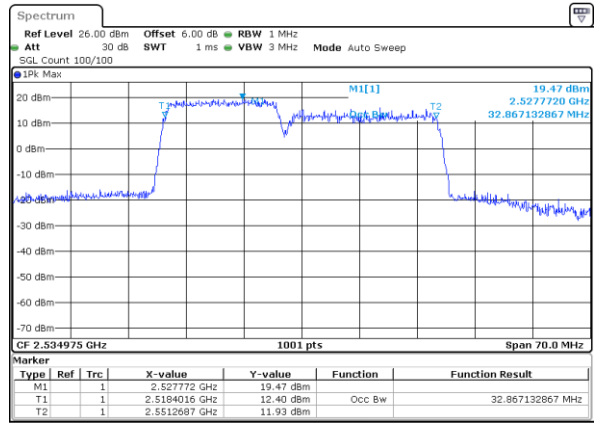
Date: 17.SEP.2020 00:23:18

Middle Channel / 15MHz+15MHz



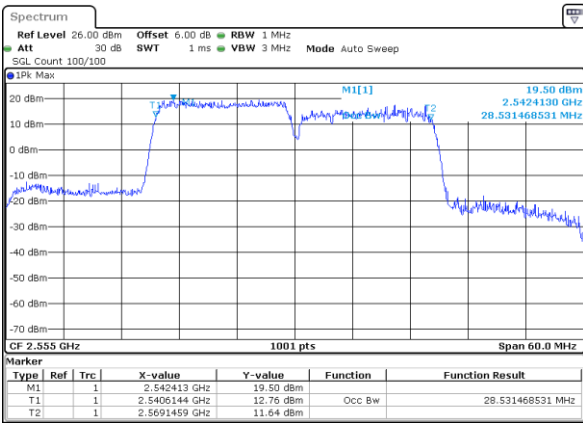
Date: 17.SEP.2020 00:20:38

Middle Channel / 15MHz+20MHz



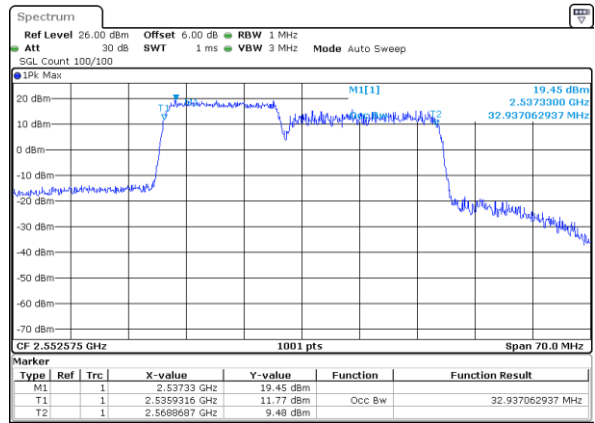
Date: 17.SEP.2020 00:26:09

Highest Channel / 15MHz+15MHz



Date: 17.SEP.2020 00:22:17

Highest Channel / 15MHz+20MHz



Date: 17.SEP.2020 00:26:55

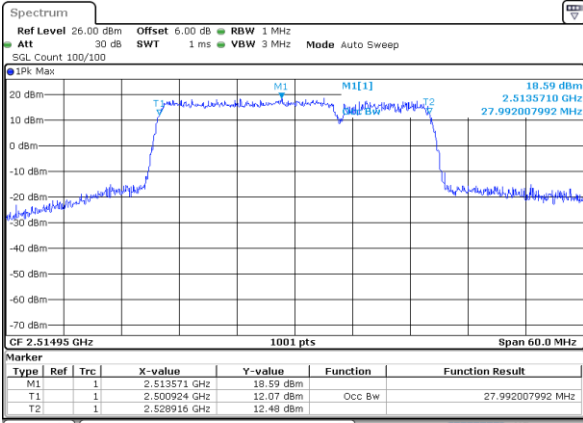




LTE Band 7C

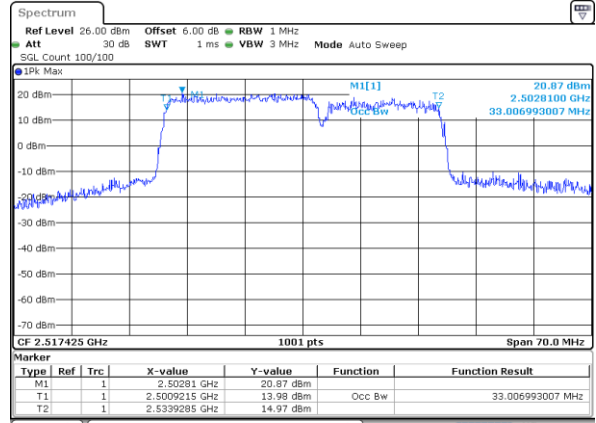
QPSK

Lowest Channel / 20MHz+10MHz



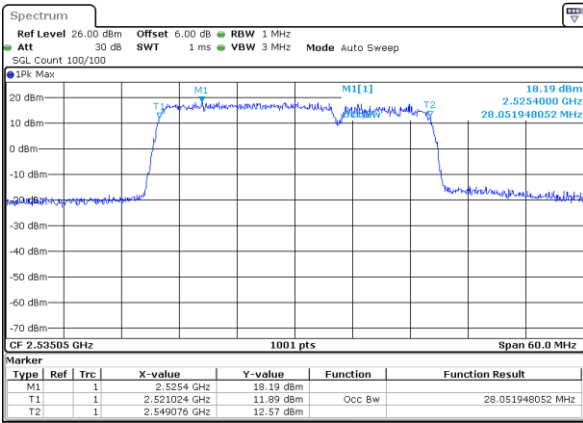
Date: 17.SEP.2020 00:29:16

Lowest Channel / 20MHz+15MHz



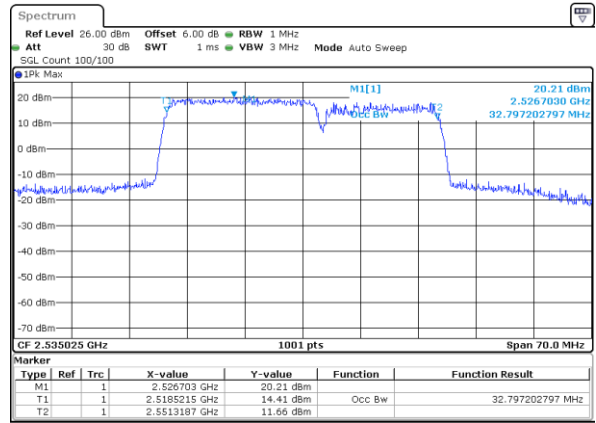
Date: 17.SEP.2020 00:32:53

Middle Channel / 20MHz+10MHz



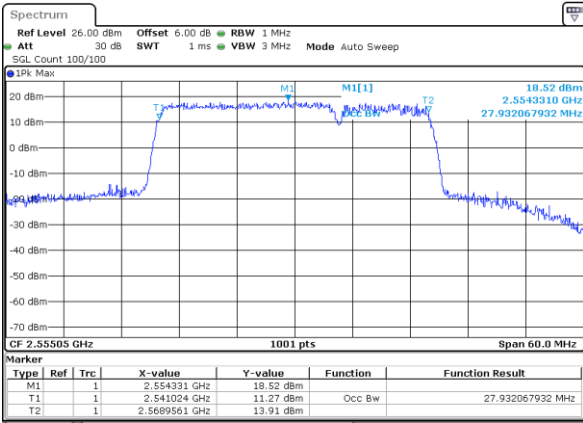
Date: 17.SEP.2020 00:29:57

Middle Channel / 20MHz+15MHz



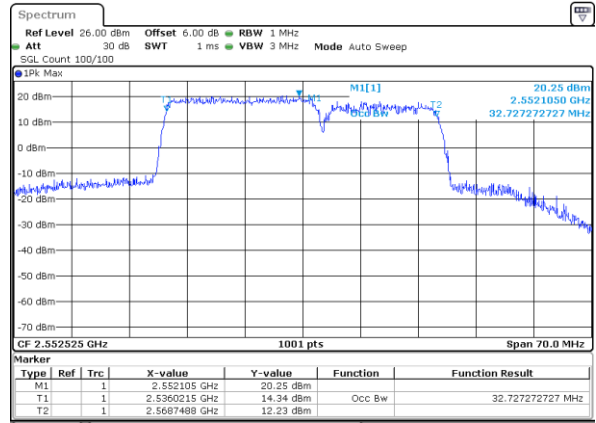
Date: 17.SEP.2020 00:34:52

Highest Channel / 20MHz+10MHz



Date: 17.SEP.2020 00:31:51

Highest Channel / 20MHz+15MHz



Date: 17.SEP.2020 00:35:32

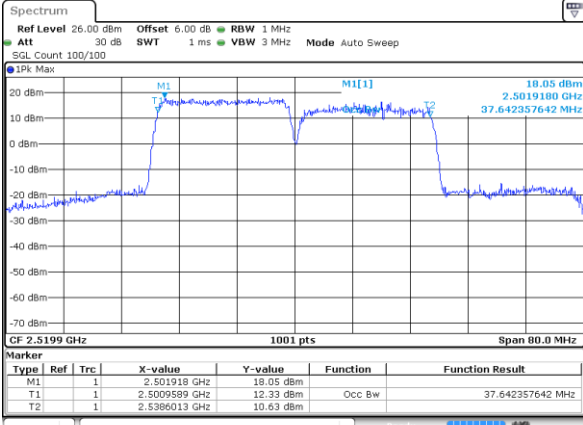


LTE Band 7C

QPSK

Lowest Channel / 20MHz+20MHz

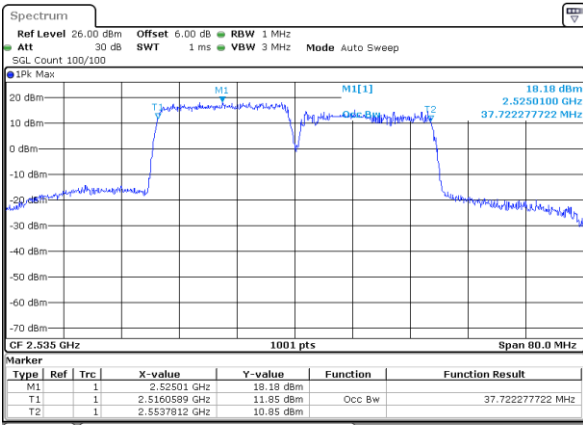
N/A



Date: 17.SEP.2020 00:37:51

Middle Channel / 20MHz+20MHz

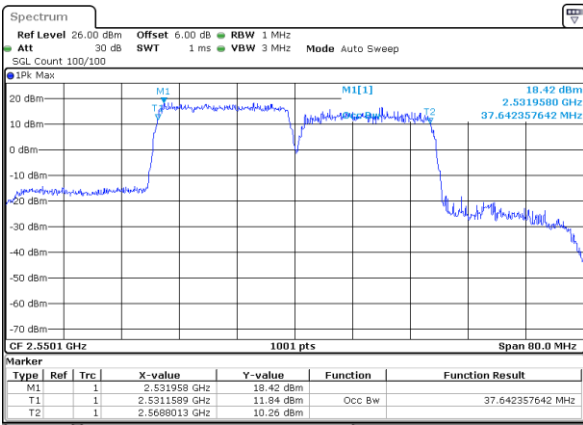
N/A



Date: 17.SEP.2020 00:46:40

Highest Channel / 20MHz+20MHz

N/A



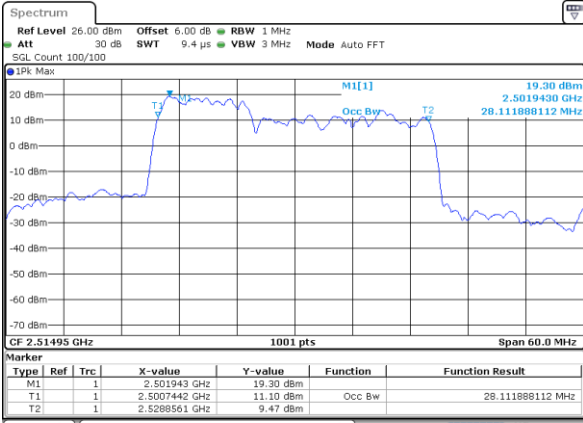
Date: 17.SEP.2020 00:48:28



LTE Band 7C

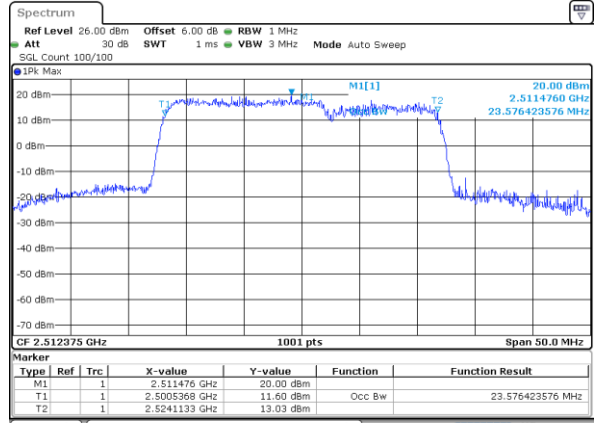
16QAM

Lowest Channel / 10MHz+20MHz



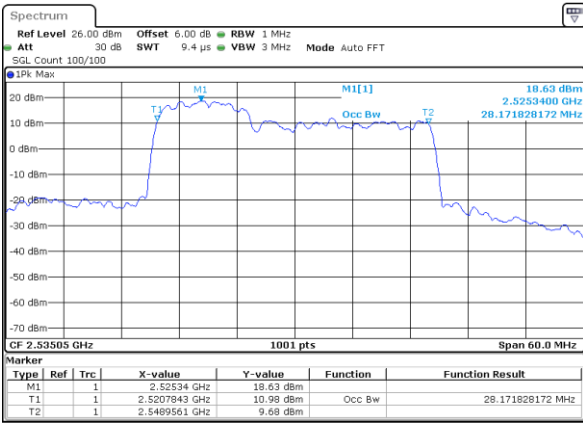
Date: 17.SEP.2020 00:04:45

Lowest Channel / 15MHz+10MHz



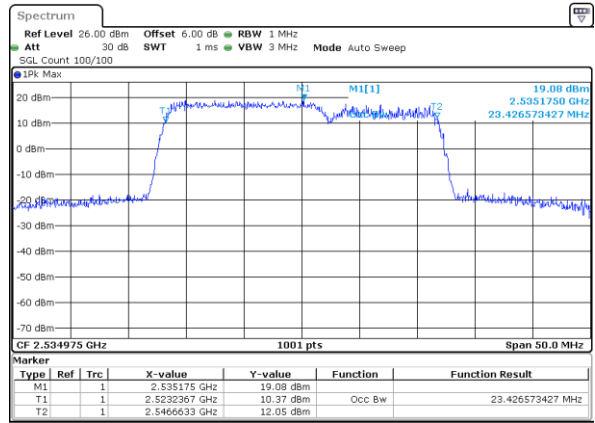
Date: 17.SEP.2020 00:14:50

Middle Channel / 10MHz+20MHz



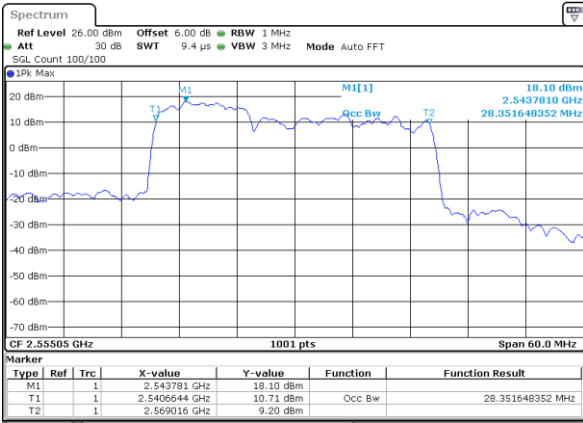
Date: 17.SEP.2020 00:06:10

Middle Channel / 15MHz+10MHz



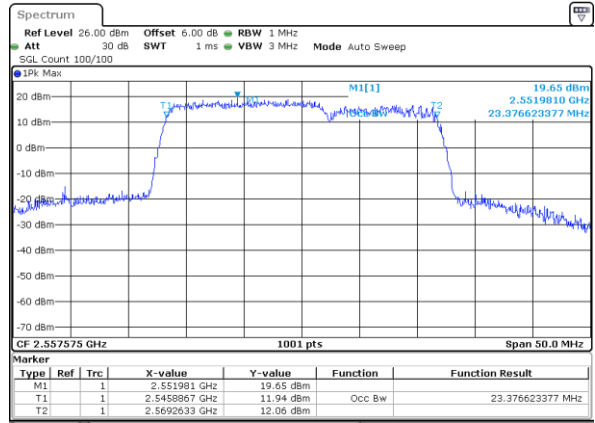
Date: 17.SEP.2020 00:16:41

Highest Channel / 10MHz+20MHz



Date: 17.SEP.2020 00:07:30

Highest Channel / 15MHz+10MHz



Date: 17.SEP.2020 00:17:49