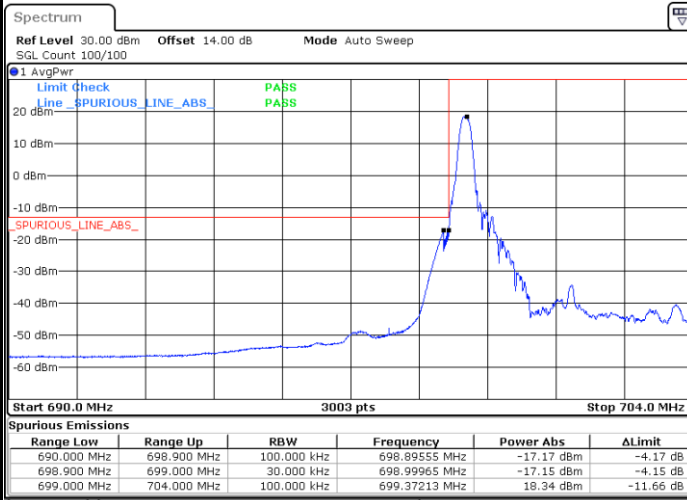




LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



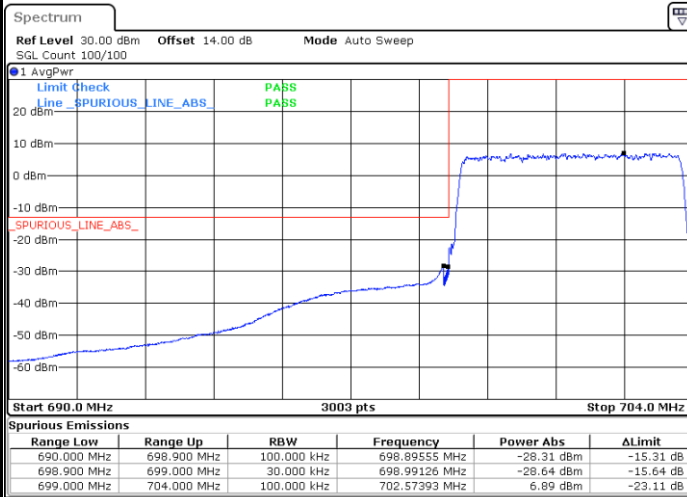
Date: 28.MAR.2020 15:36:36

Highest Band Edge / 1 RB



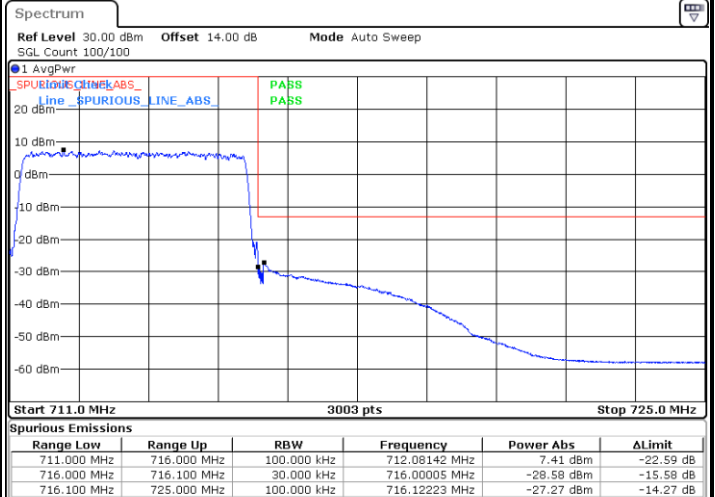
Date: 28.MAR.2020 15:40:59

Lowest Band Edge / Full RB



Date: 11.MAR.2020 20:22:50

Highest Band Edge / Full RB

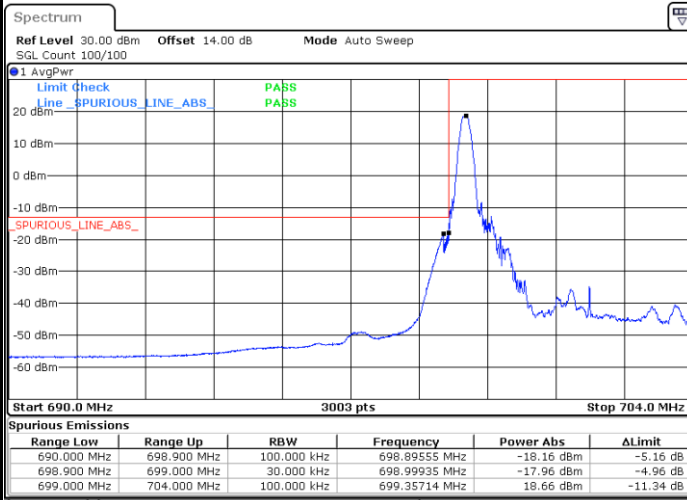


Date: 11.MAR.2020 20:26:47



LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



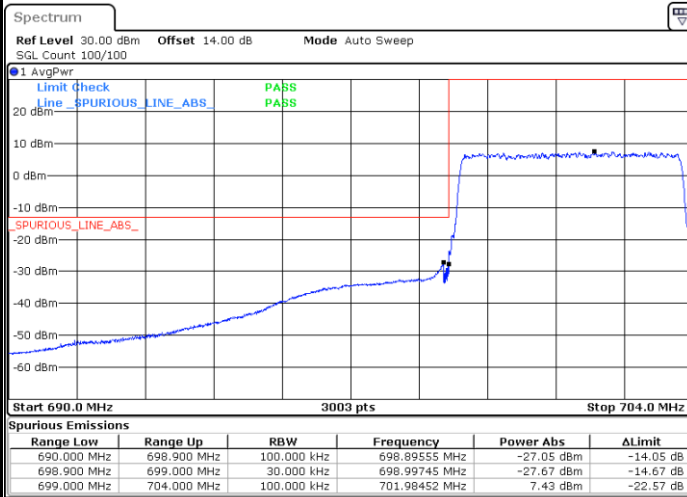
Date: 28.MAR.2020 15:38:57

Highest Band Edge / 1 RB



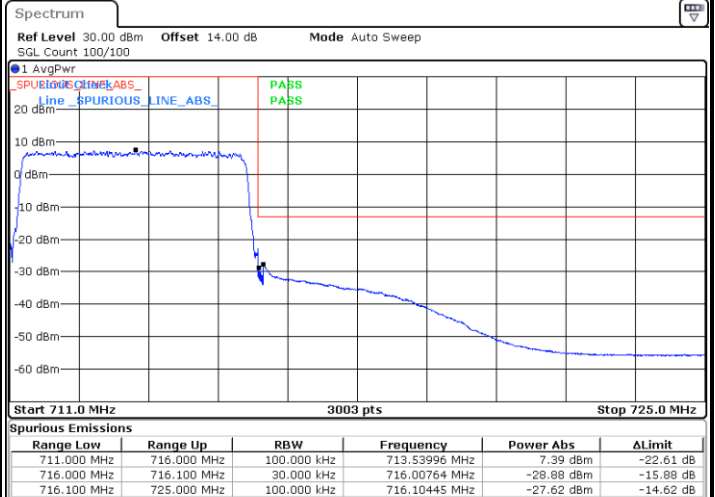
Date: 28.MAR.2020 15:40:15

Lowest Band Edge / Full RB



Date: 27.MAR.2020 18:58:23

Highest Band Edge / Full RB

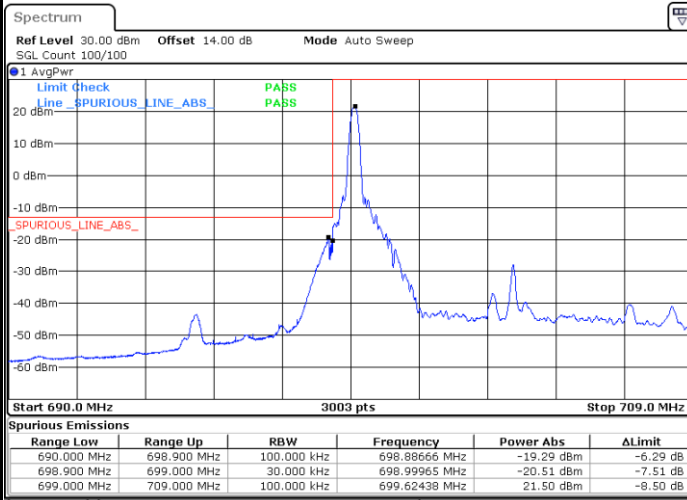


Date: 27.MAR.2020 18:57:18



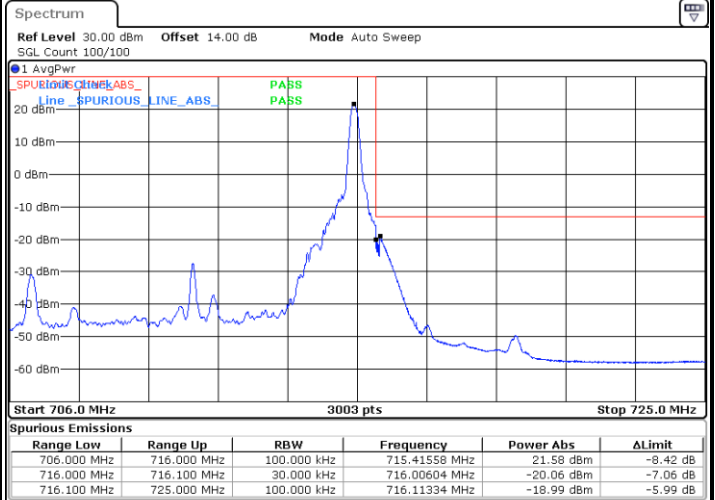
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



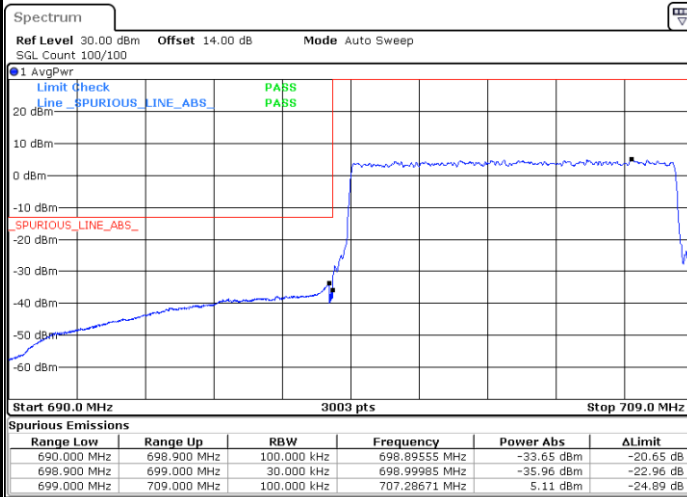
Date: 11.MAR.2020 21:18:09

Highest Band Edge / 1 RB



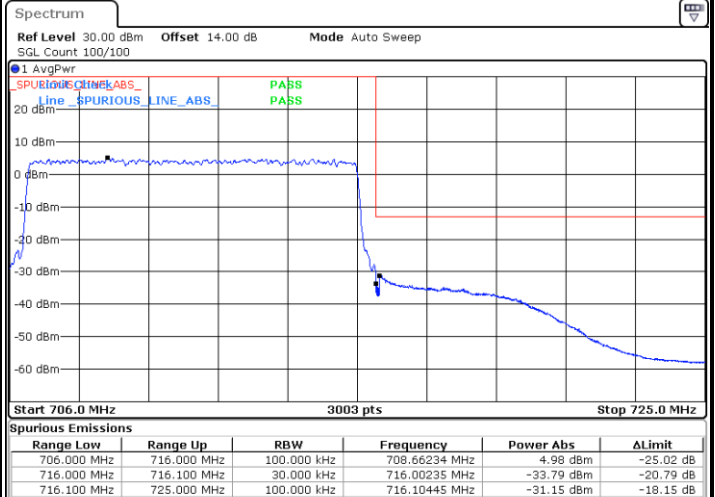
Date: 11.MAR.2020 20:49:09

Lowest Band Edge / Full RB



Date: 11.MAR.2020 21:20:43

Highest Band Edge / Full RB

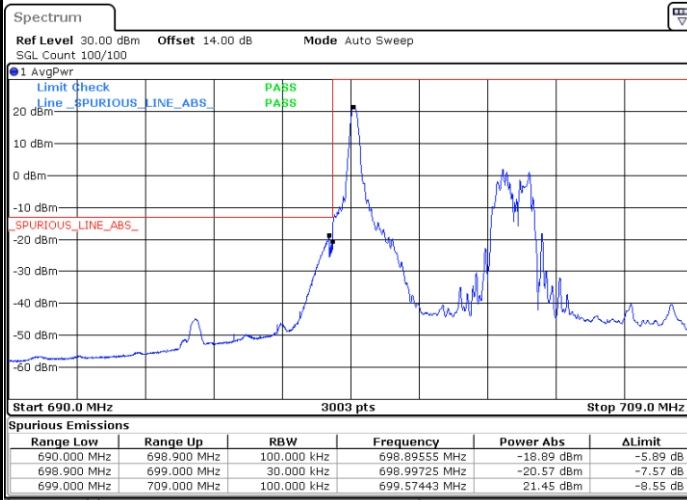


Date: 11.MAR.2020 21:00:05



LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



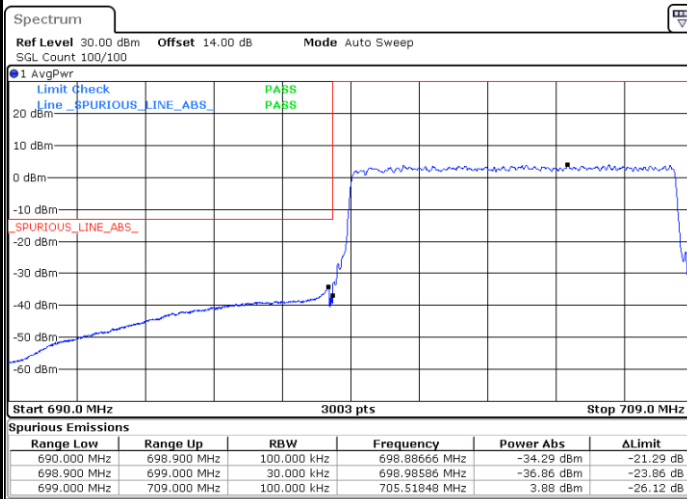
Date: 11.MAR.2020 21:15:54

Highest Band Edge / 1 RB



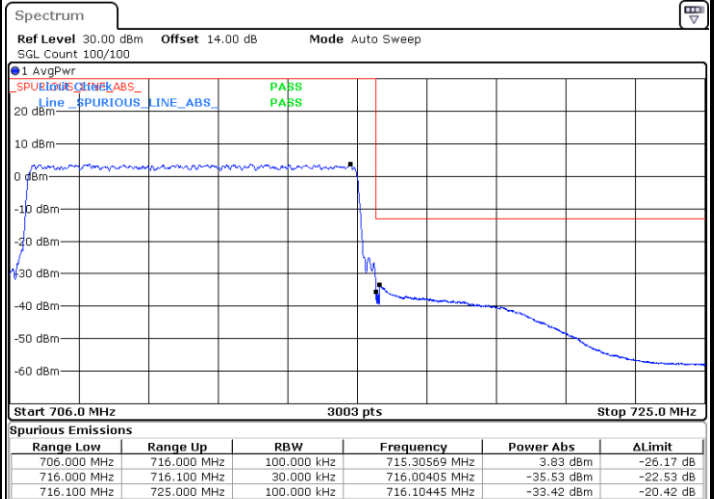
Date: 11.MAR.2020 20:51:20

Lowest Band Edge / Full RB



Date: 11.MAR.2020 21:23:22

Highest Band Edge / Full RB

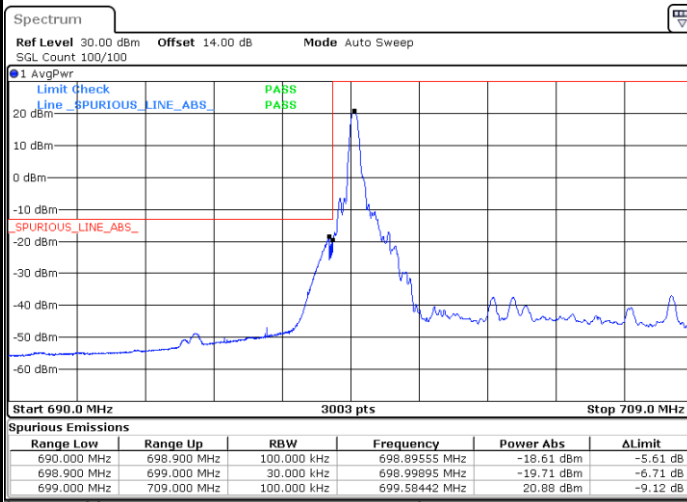


Date: 11.MAR.2020 21:01:30



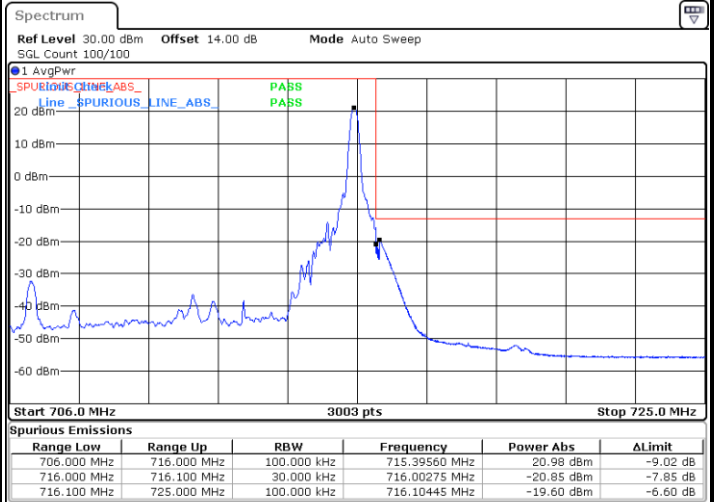
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



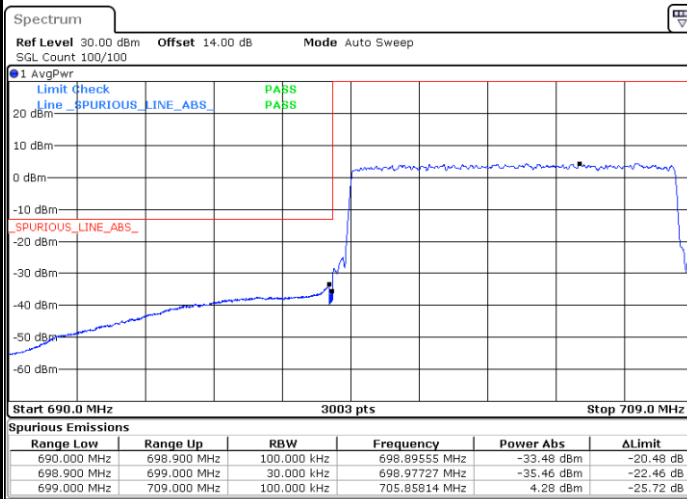
Date: 27.MAR.2020 19:06:10

Highest Band Edge / 1 RB



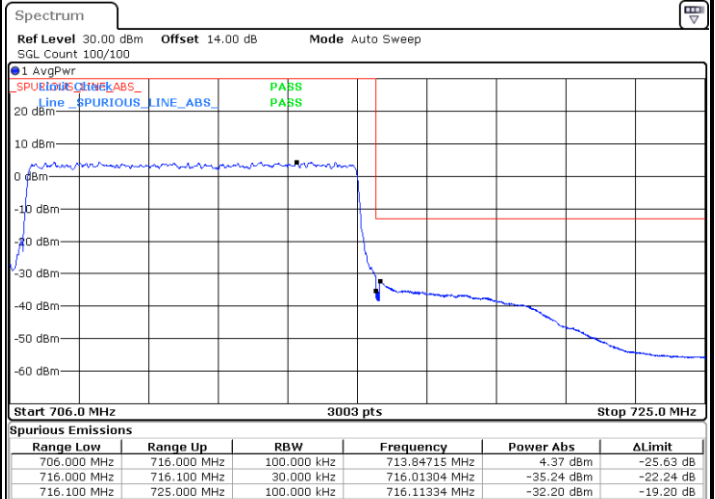
Date: 27.MAR.2020 19:07:04

Lowest Band Edge / Full RB



Date: 27.MAR.2020 19:03:01

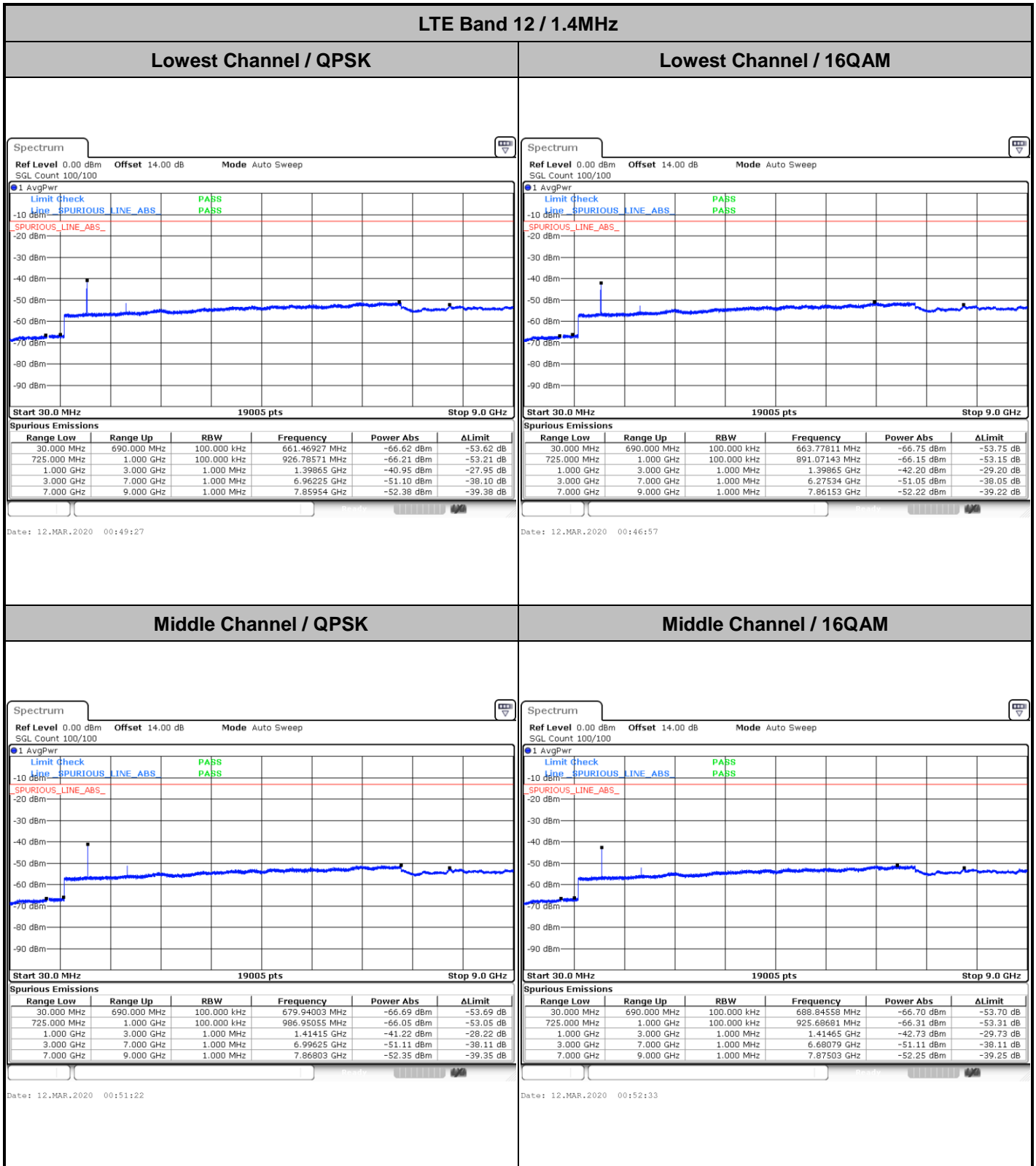
Highest Band Edge / Full RB



Date: 27.MAR.2020 19:08:03



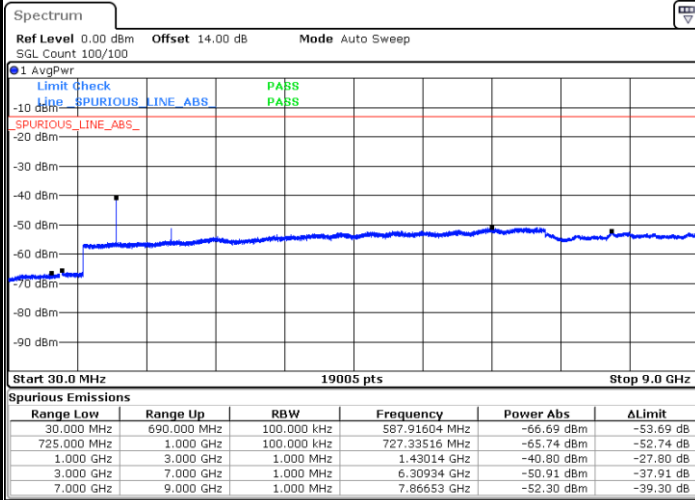
Conducted Spurious Emission





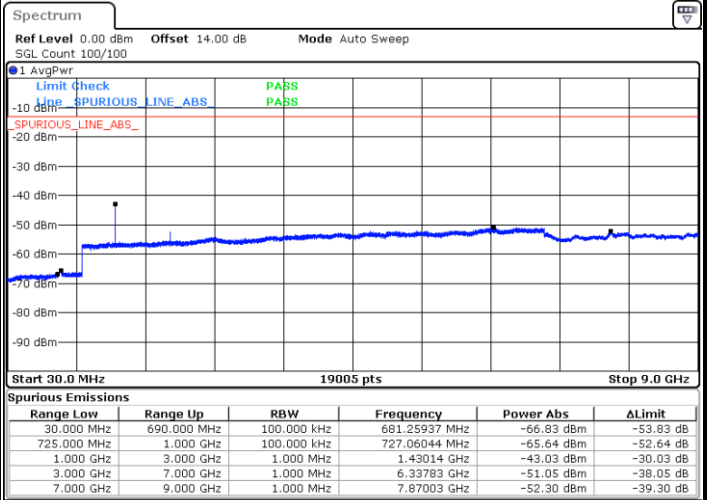
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 12.MAR.2020 01:38:30

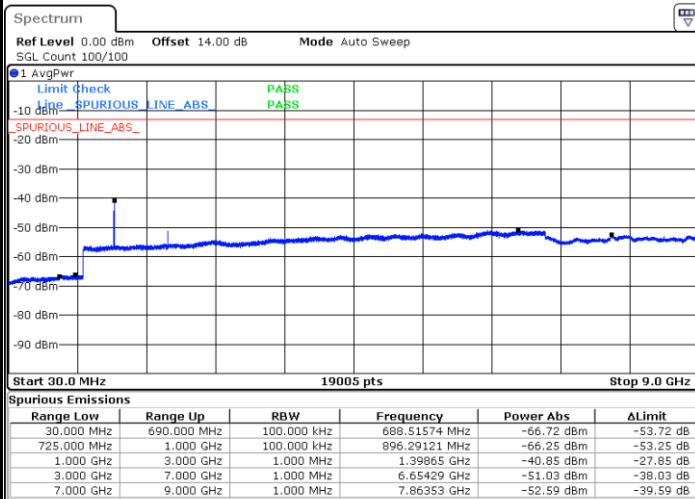
Highest Channel / 16QAM



Date: 12.MAR.2020 01:40:00

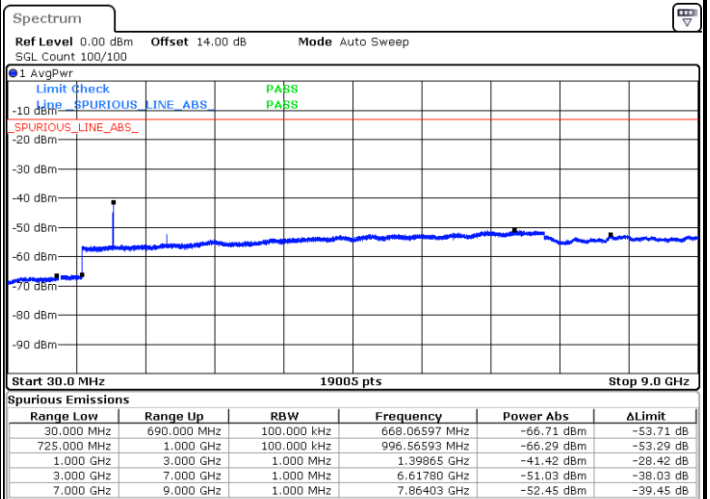
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 11.MAR.2020 21:49:24

Lowest Channel / 16QAM



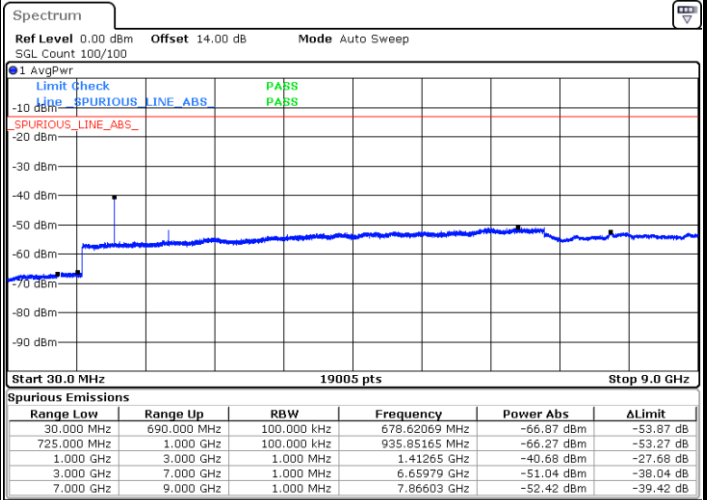
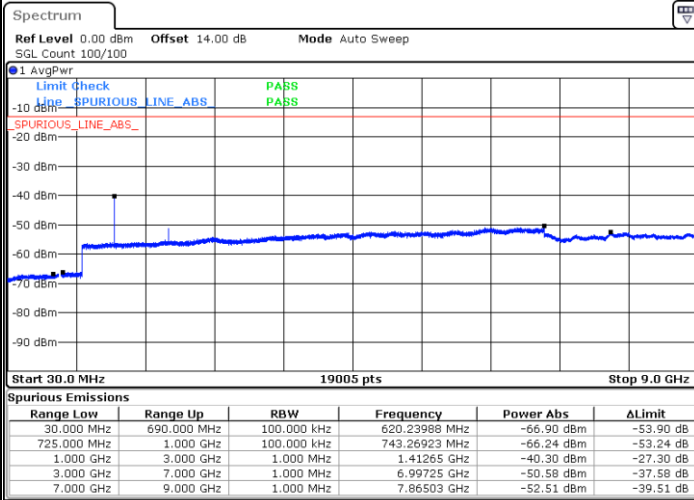
Date: 11.MAR.2020 21:52:44



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

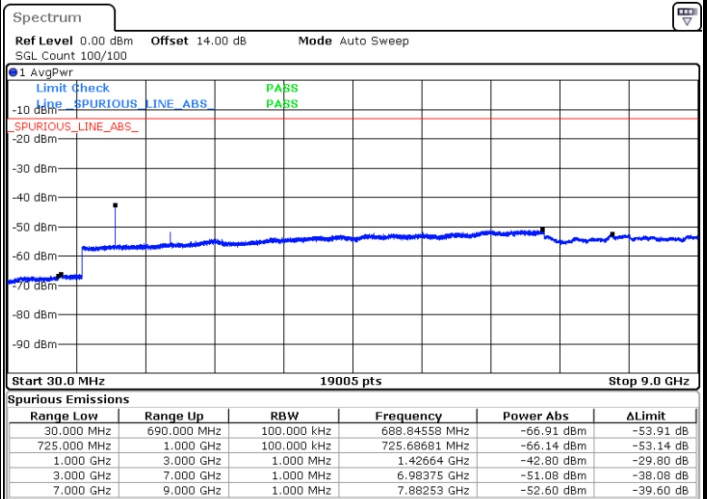
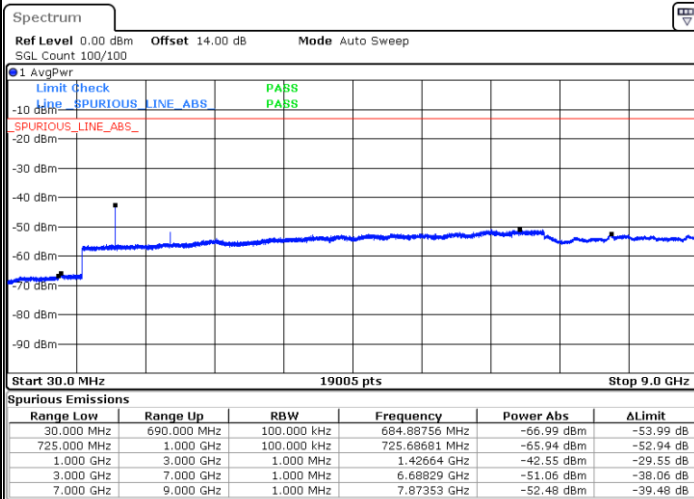


Date: 11.MAR.2020 22:00:41

Date: 11.MAR.2020 21:58:32

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 11.MAR.2020 22:11:11

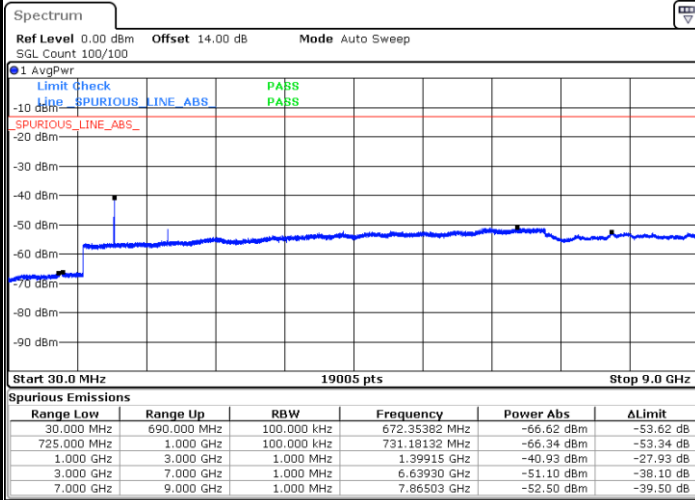
Date: 11.MAR.2020 22:13:41



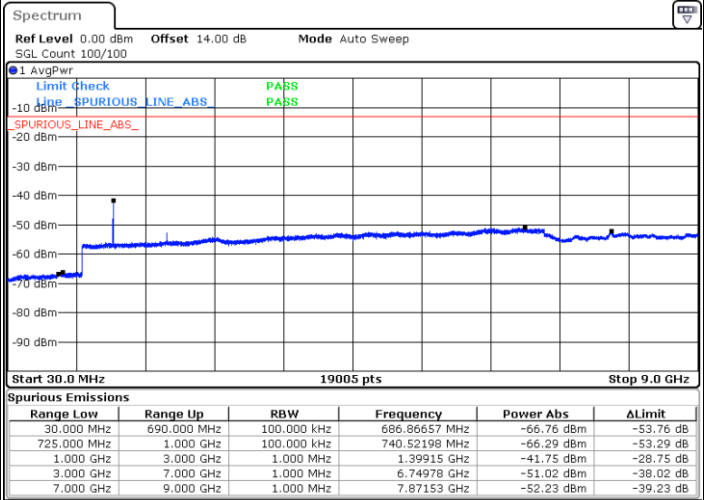
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



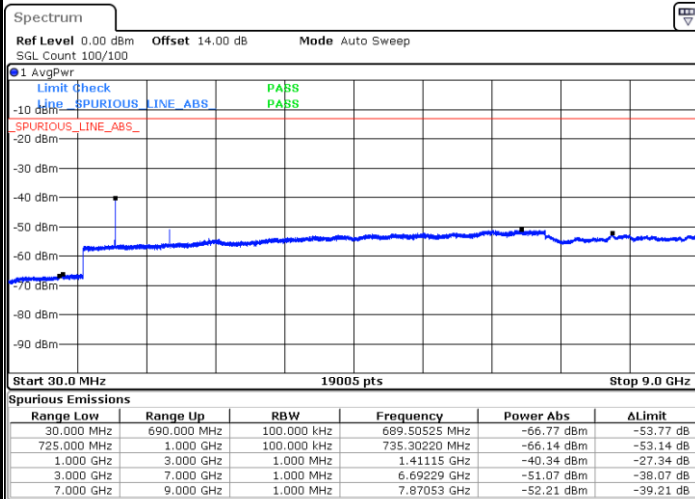
Date: 11.MAR.2020 19:18:07



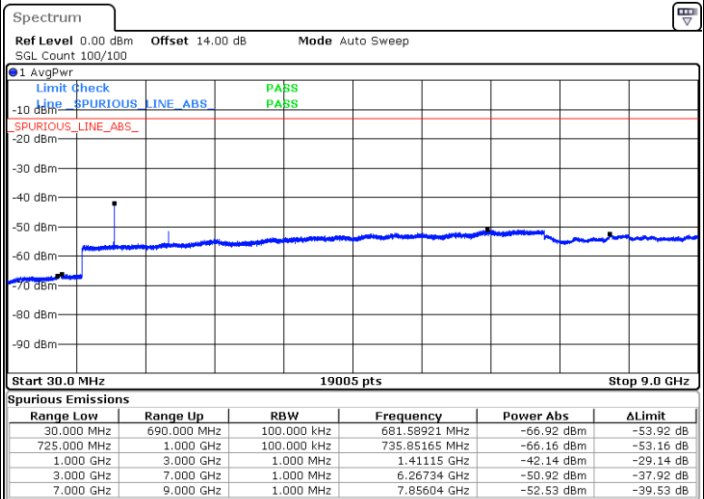
Date: 11.MAR.2020 20:11:29

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 11.MAR.2020 19:12:09



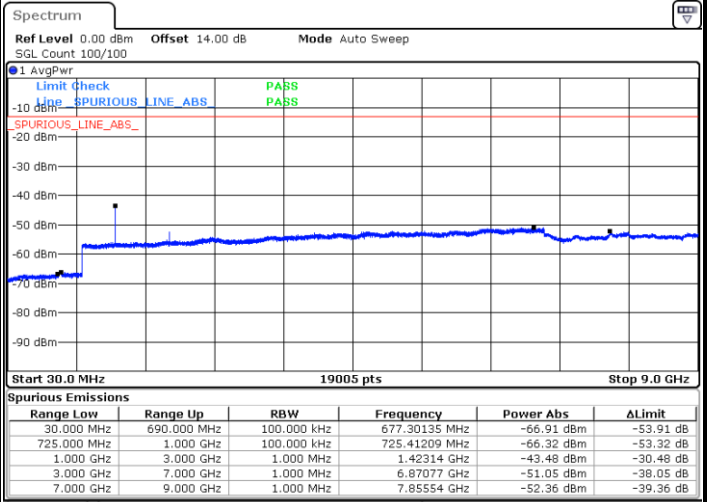
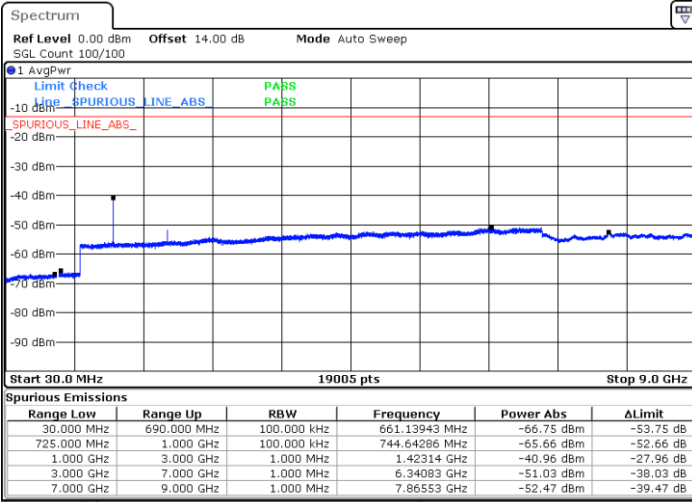
Date: 11.MAR.2020 19:10:51



LTE Band 12 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



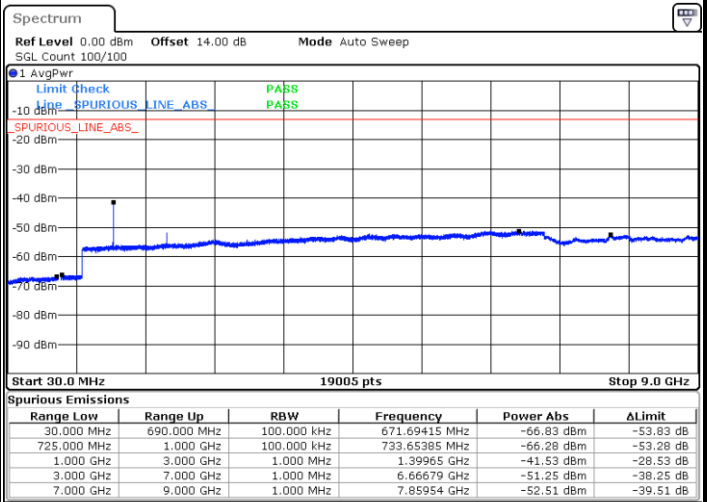
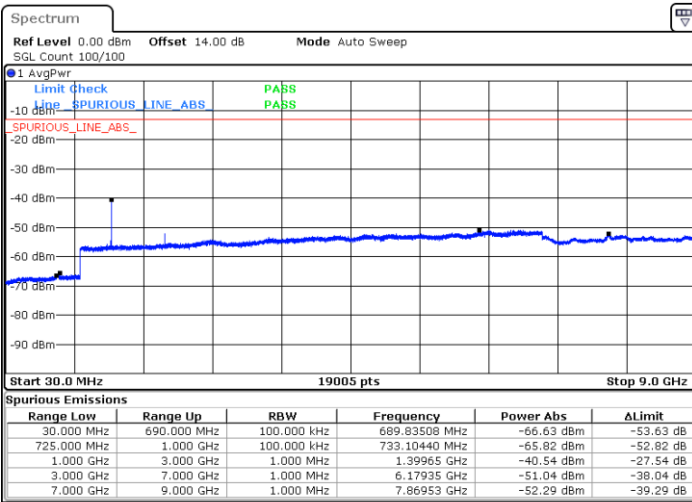
Date: 11.MAR.2020 20:30:21

Date: 11.MAR.2020 20:31:31

LTE Band 12 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 11.MAR.2020 21:19:22

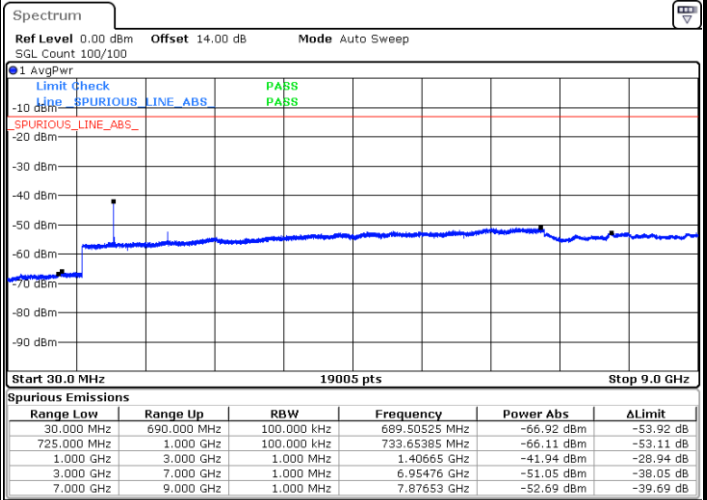
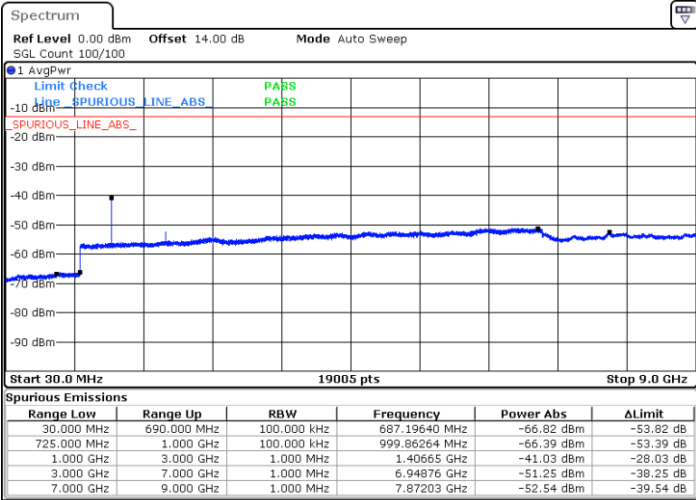
Date: 11.MAR.2020 21:16:59



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

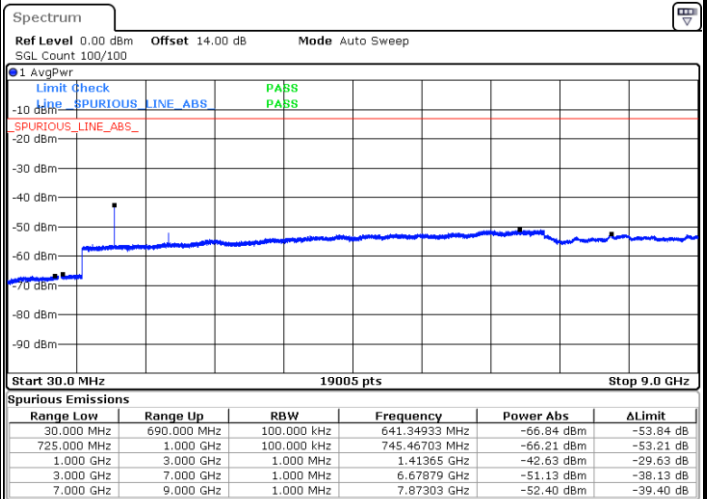
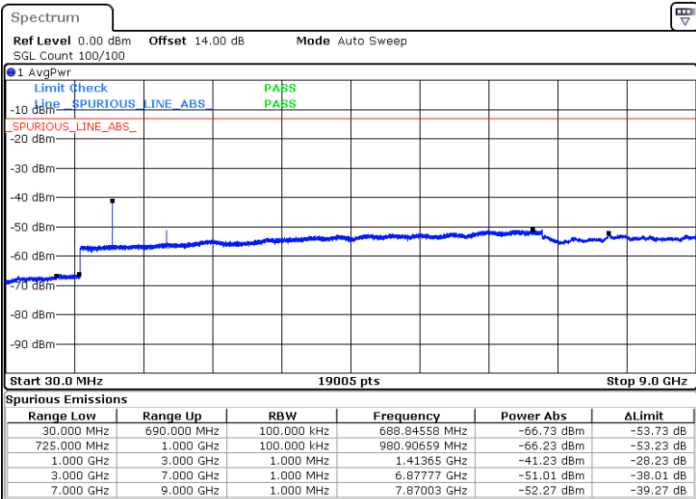


Date: 11.MAR.2020 21:06:53

Date: 11.MAR.2020 21:08:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 11.MAR.2020 20:58:49

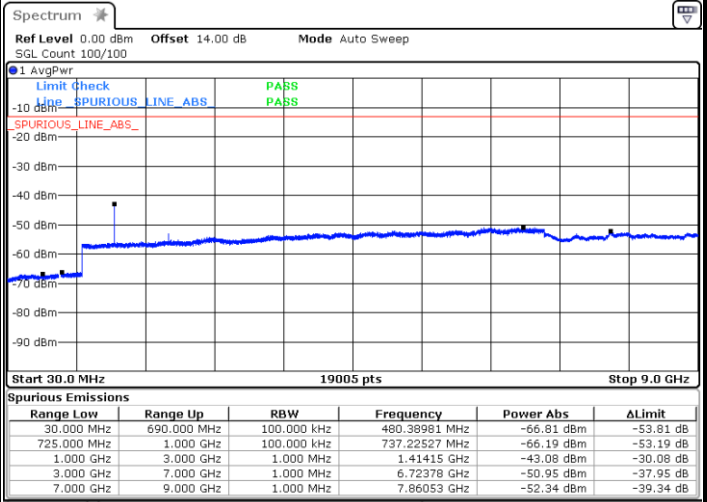
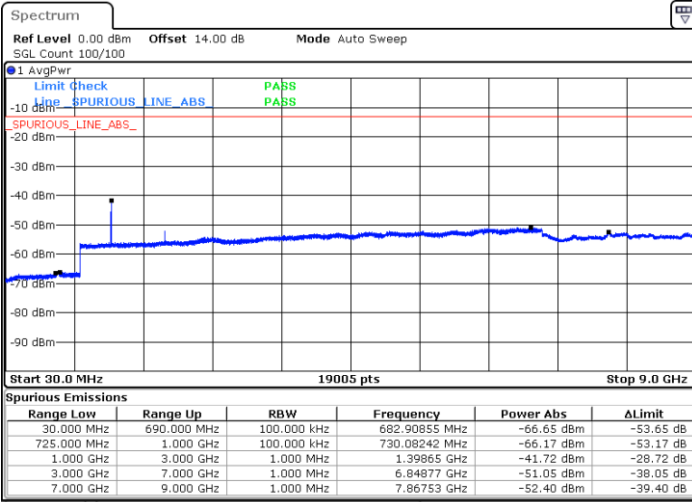
Date: 11.MAR.2020 20:57:33



LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM

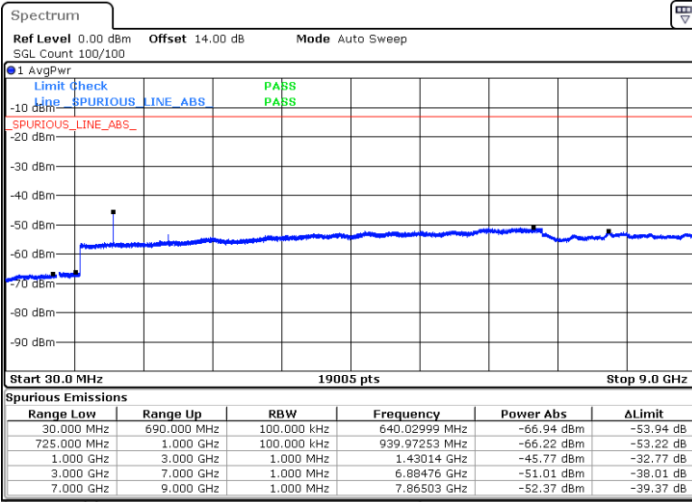
Middle Channel / 64QAM



Date: 12.MAR.2020 00:43:54

Date: 12.MAR.2020 01:02:01

Highest Channel / 64QAM



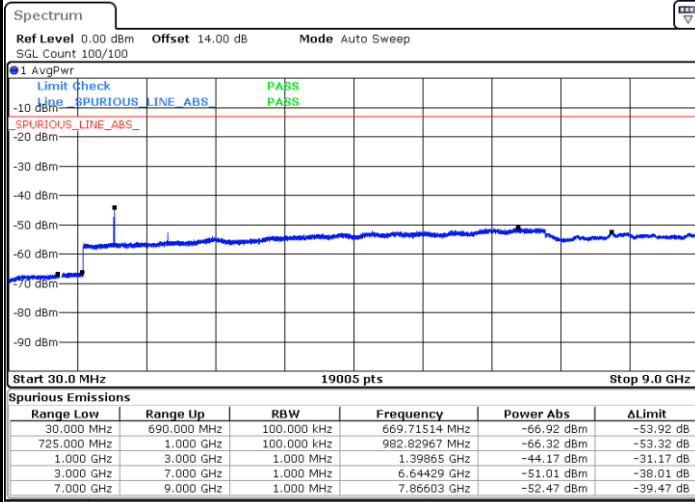
Date: 12.MAR.2020 01:41:32



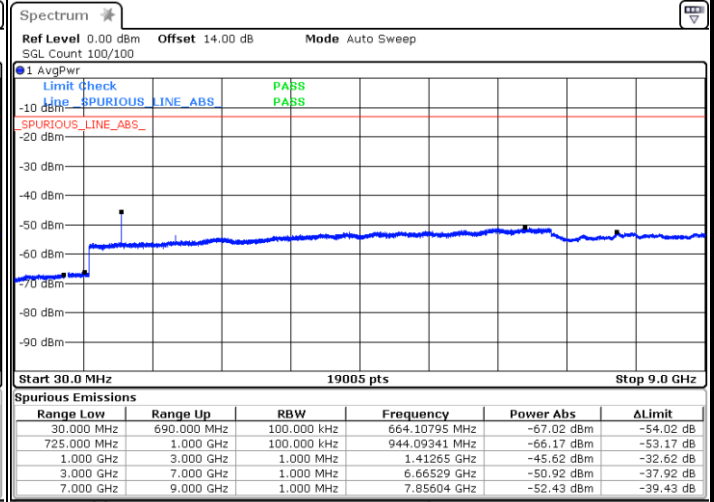
LTE Band 12 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

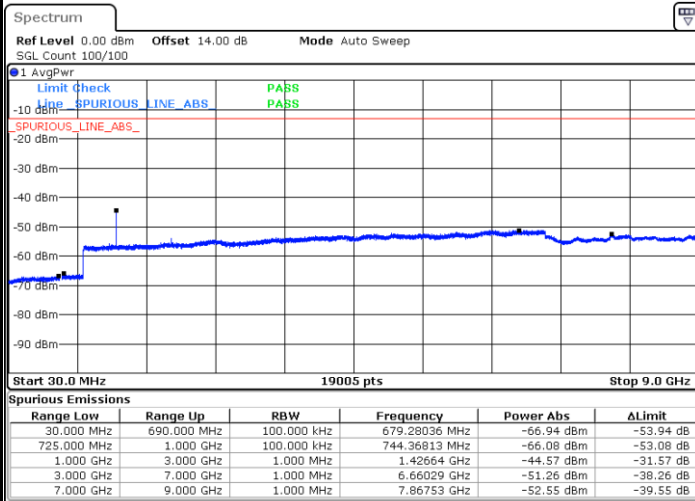


Date: 11.MAR.2020 21:54:50



Date: 11.MAR.2020 21:56:59

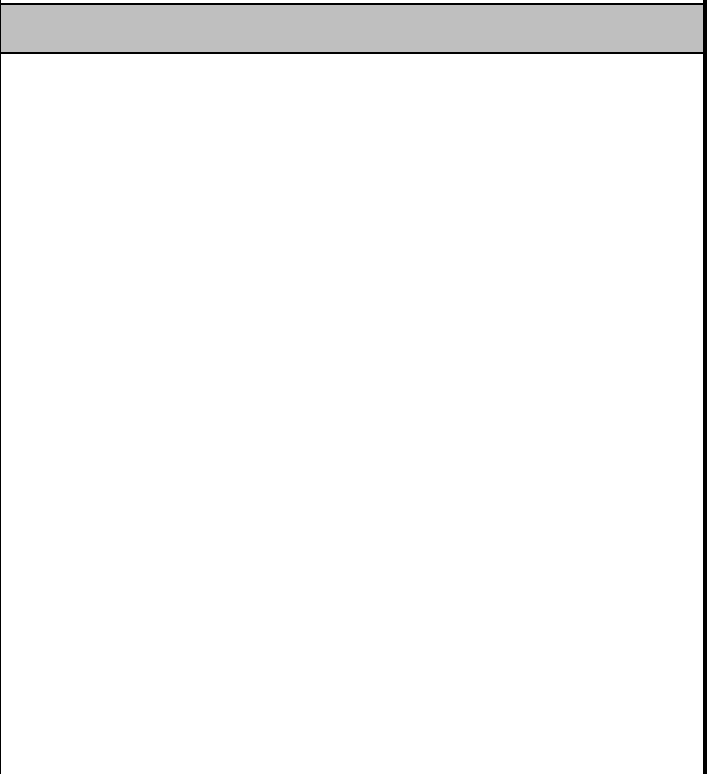
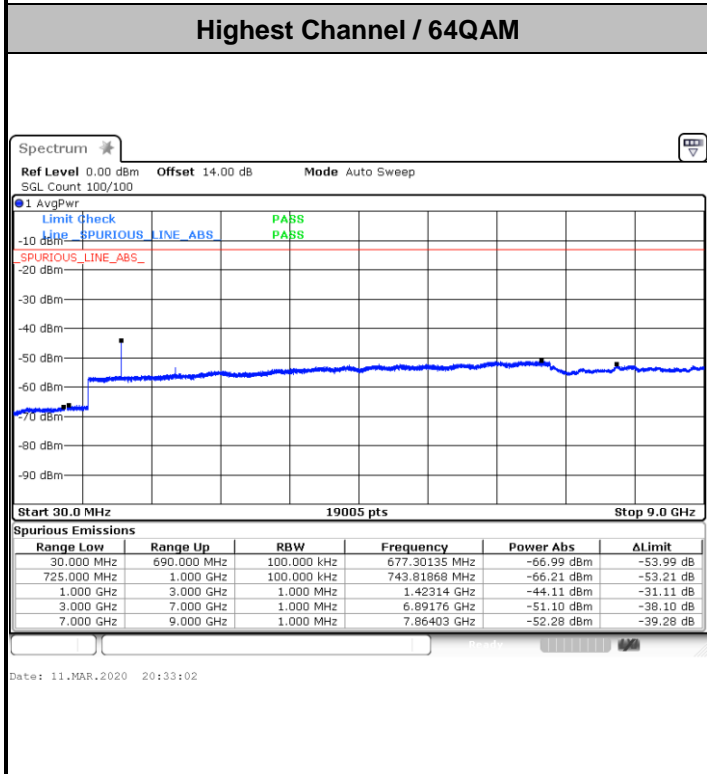
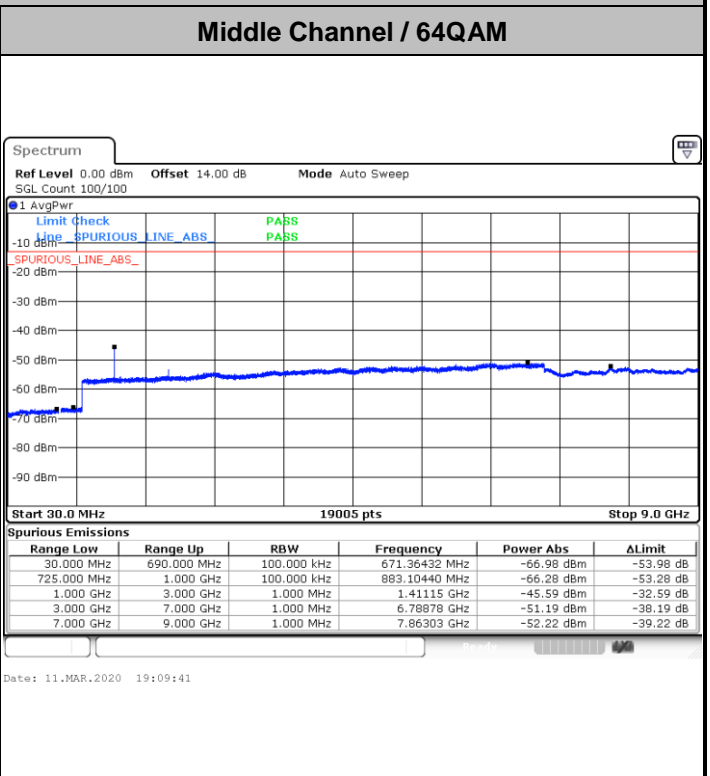
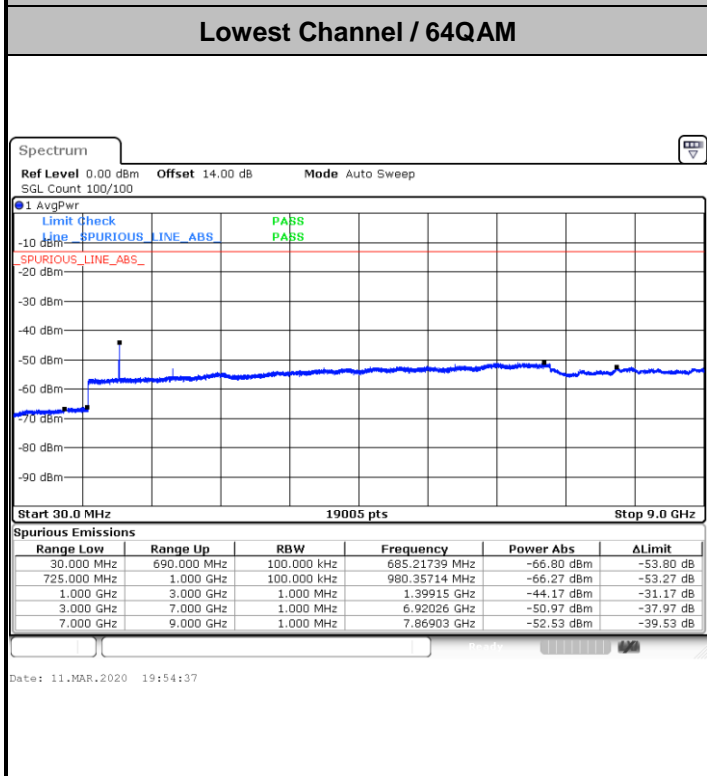
Highest Channel / 64QAM



Date: 11.MAR.2020 22:14:54



LTE Band 12 / 5MHz

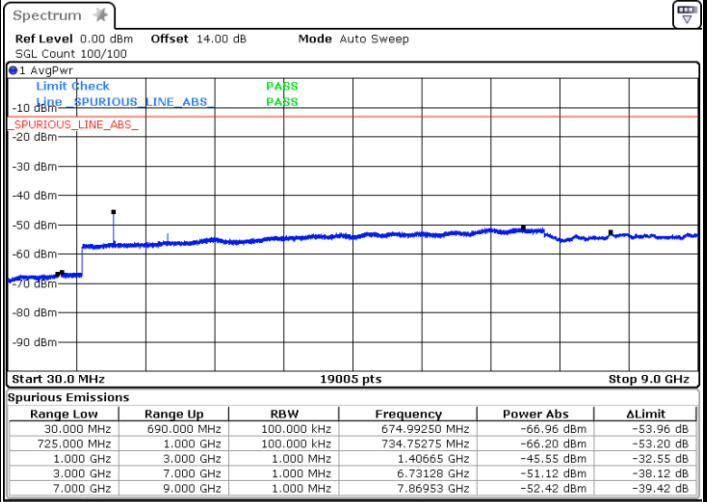
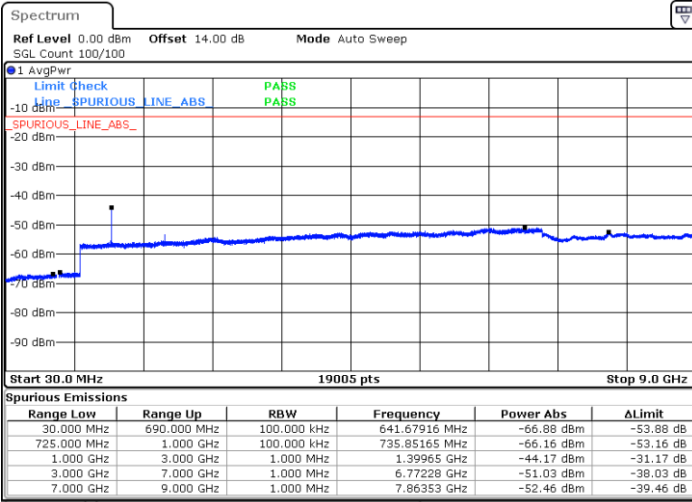




LTE Band 12 / 10MHz

Lowest Channel / 64QAM

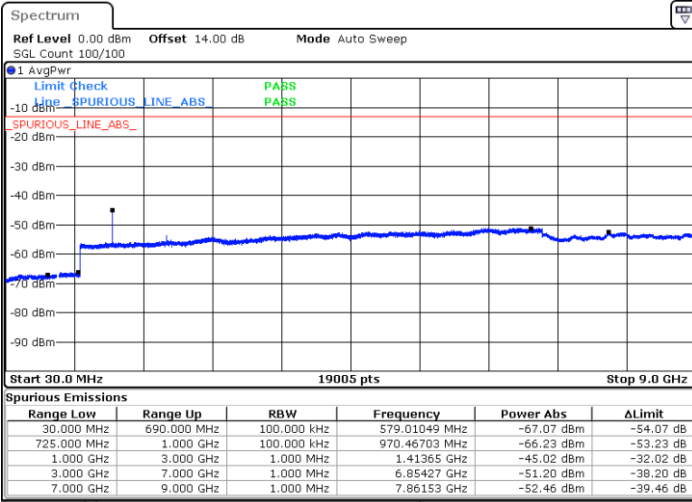
Middle Channel / 64QAM



Date: 11.MAR.2020 21:15:06

Date: 11.MAR.2020 21:11:36

Highest Channel / 64QAM



Date: 11.MAR.2020 20:55:51



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0167	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0192	
0	Normal Voltage	0.0178	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0034	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0180	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

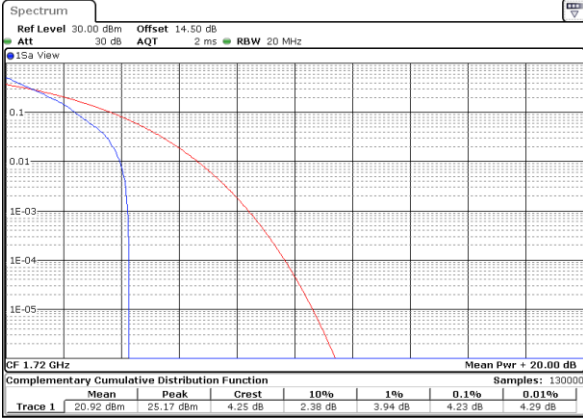
Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.23	5.36	5.30	6.29	PASS
Middle CH	4.87	5.42	5.94	6.35	
Highest CH	5.74	5.16	6.61	5.39	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	5.07	6.29	-	-	PASS
Middle CH	5.42	6.26	-	-	
Highest CH	5.83	5.30	-	-	



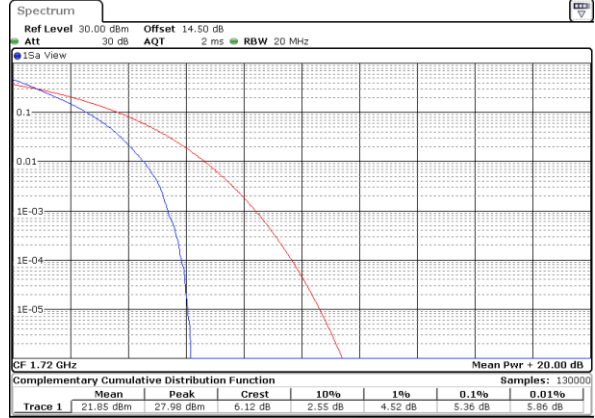
LTE Band 66 / 20MHz / QPSK

Lowest Channel / 1RB



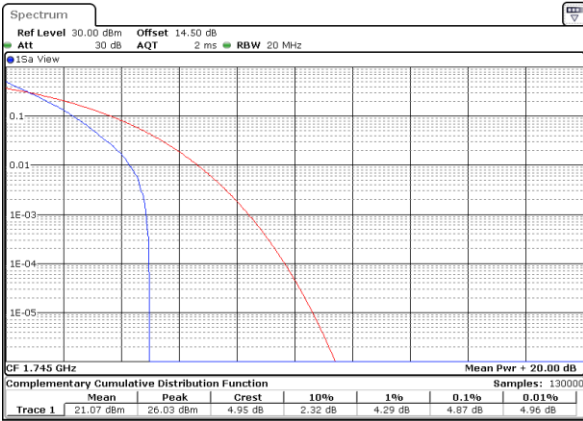
Date: 11.MAR.2020 22:52:42

Lowest Channel / Full RB



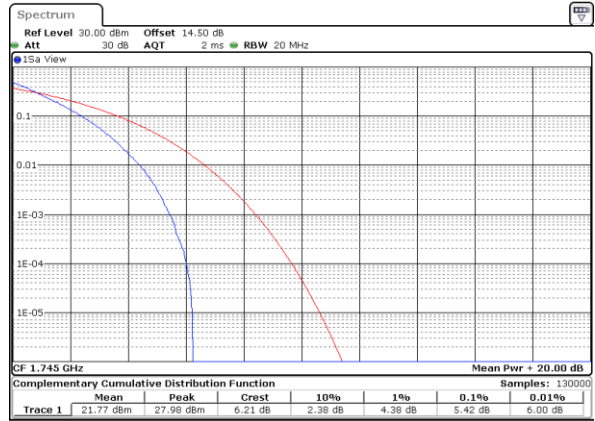
Date: 11.MAR.2020 22:52:120

Middle Channel / 1RB



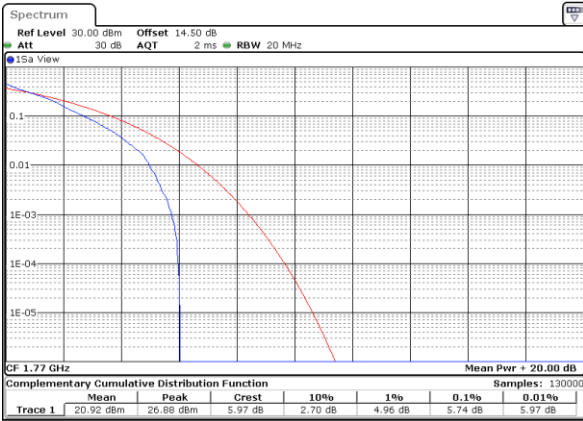
Date: 11.MAR.2020 22:49:47

Middle Channel / Full RB



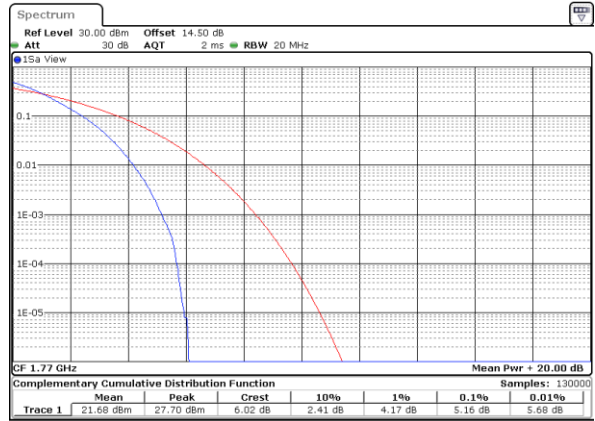
Date: 11.MAR.2020 22:50:110

Highest Channel / 1RB



Date: 11.MAR.2020 22:47:22

Highest Channel / Full RB

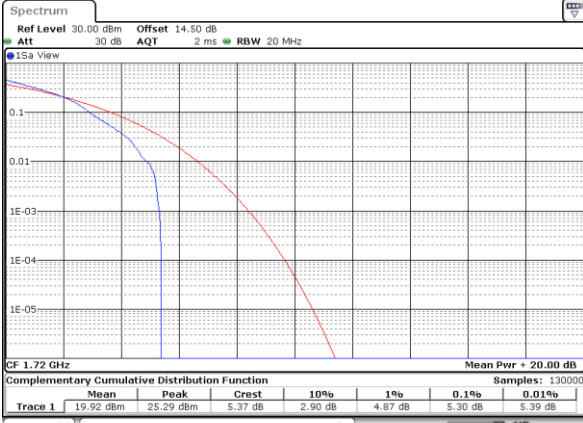


Date: 11.MAR.2020 22:46:57



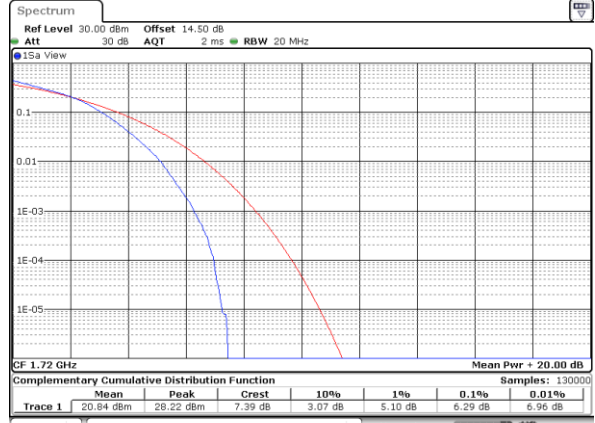
LTE Band 66 / 20MHz / 16QAM

Lowest Channel / 1RB



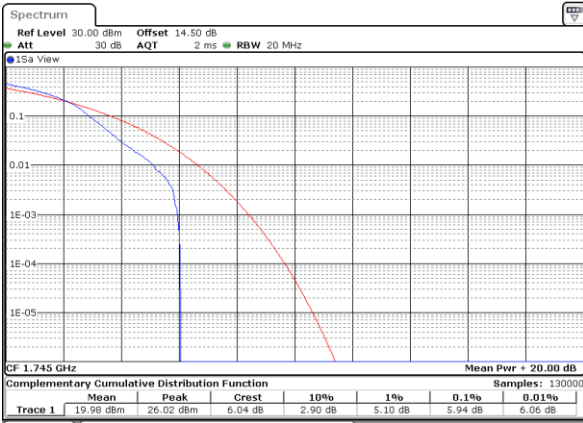
Date: 11.MAR.2020 22:52:59

Lowest Channel / Full RB



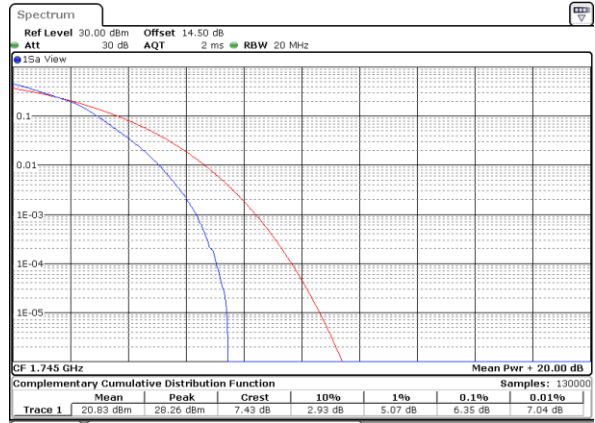
Date: 11.MAR.2020 22:52:00

Middle Channel / 1RB



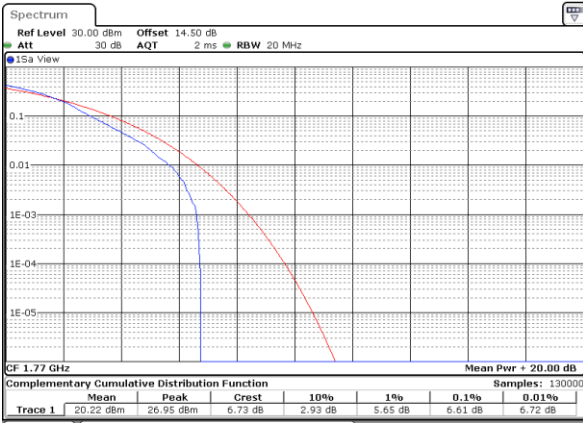
Date: 11.MAR.2020 22:49:31

Middle Channel / Full RB



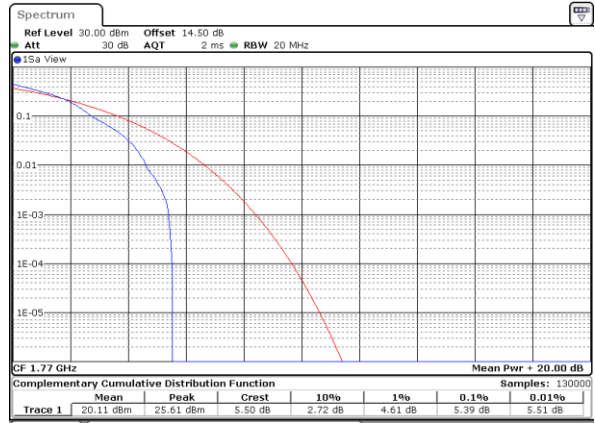
Date: 11.MAR.2020 22:50:28

Highest Channel / 1RB



Date: 11.MAR.2020 22:47:41

Highest Channel / Full RB

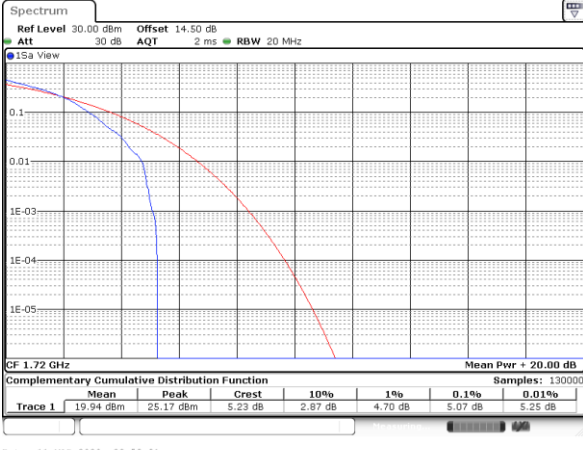


Date: 11.MAR.2020 22:46:23



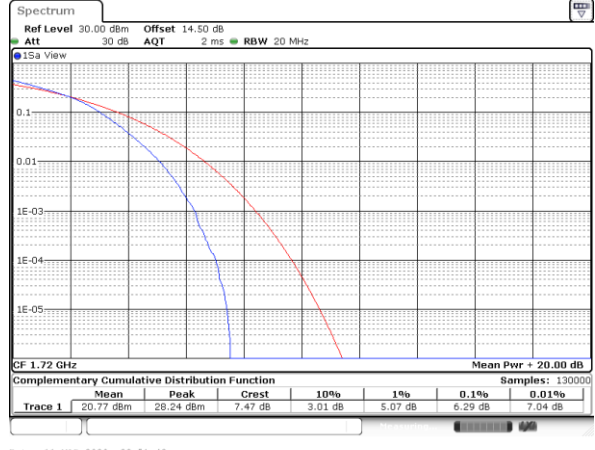
LTE Band 66 / 20MHz / 64QAM

Lowest Channel / 1RB



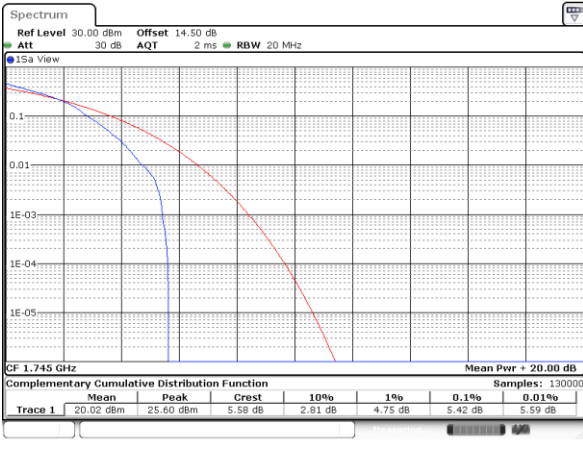
Date: 11.MAR.2020 22:53:13

Lowest Channel / Full RB



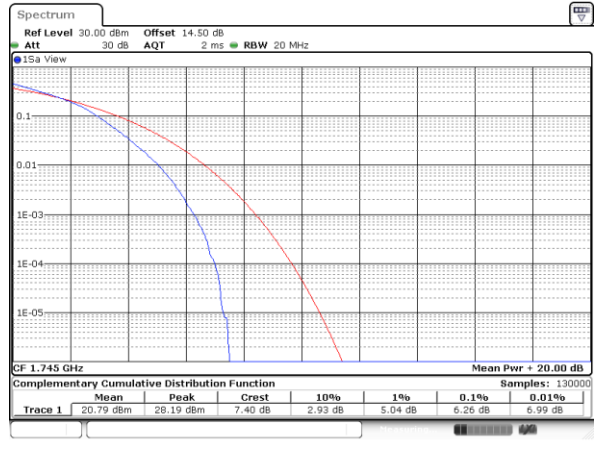
Date: 11.MAR.2020 22:51:42

Middle Channel / 1RB



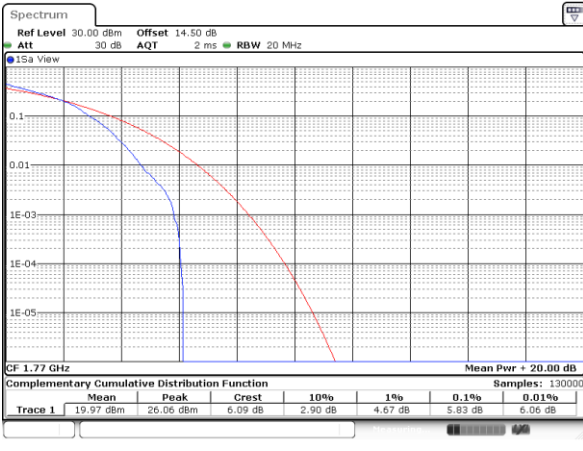
Date: 11.MAR.2020 22:49:13

Middle Channel / Full RB



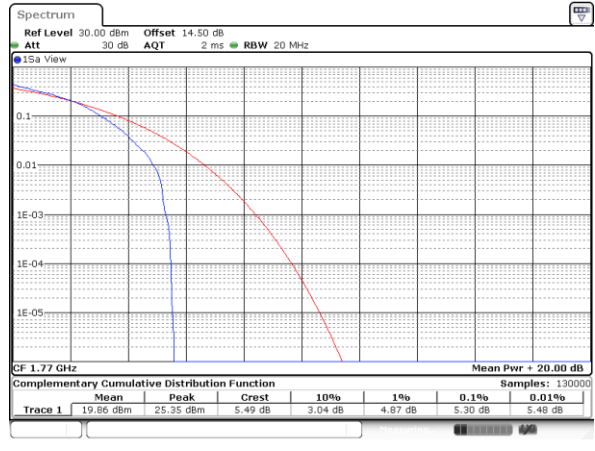
Date: 11.MAR.2020 22:50:51

Highest Channel / 1RB



Date: 11.MAR.2020 22:48:06

Highest Channel / Full RB



Date: 11.MAR.2020 22:46:05



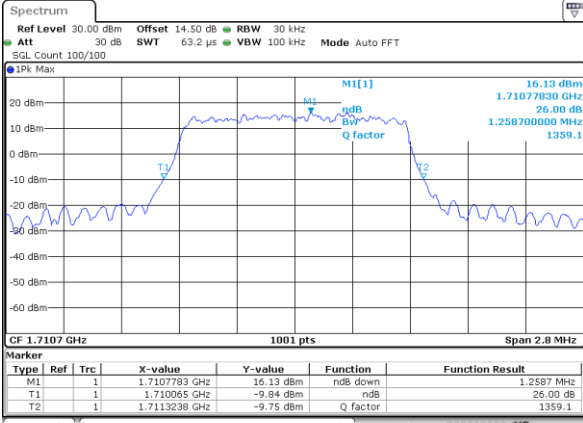
26dB Bandwidth

Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.26	1.29	2.96	2.98	4.94	5.06	9.75	10.05	14.42	14.54	19.06	18.90
Middle CH	1.28	1.29	2.96	2.97	5.17	4.99	9.65	9.93	14.84	14.54	19.06	19.54
Highest CH	1.28	1.28	2.96	2.91	4.98	5.05	9.75	9.97	14.33	14.33	18.74	19.38
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Lowest CH	1.24	-	2.95	-	4.90	-	9.99	-	14.60	-	19.46	-
Middle CH	1.27	-	2.95	-	5.02	-	10.13	-	14.36	-	19.06	-
Highest CH	1.25	-	2.95	-	5.07	-	9.85	-	14.60	-	19.26	-



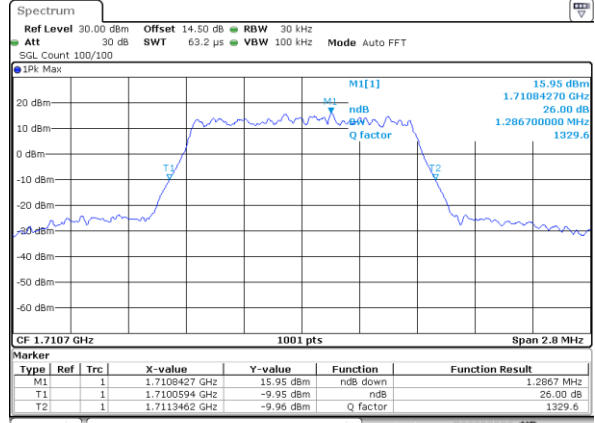
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



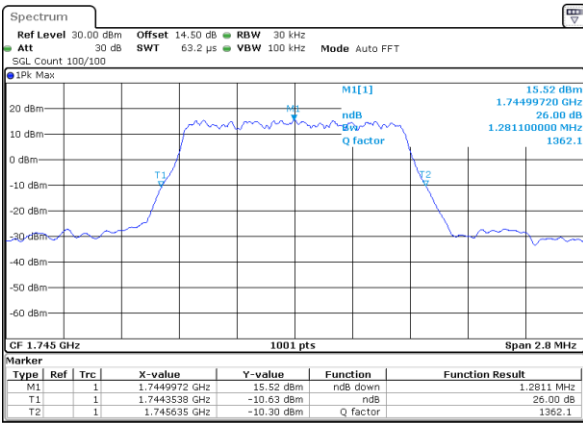
Date: 11.MAR.2020 17:43:19

Lowest Channel / 1.4MHz / 16QAM



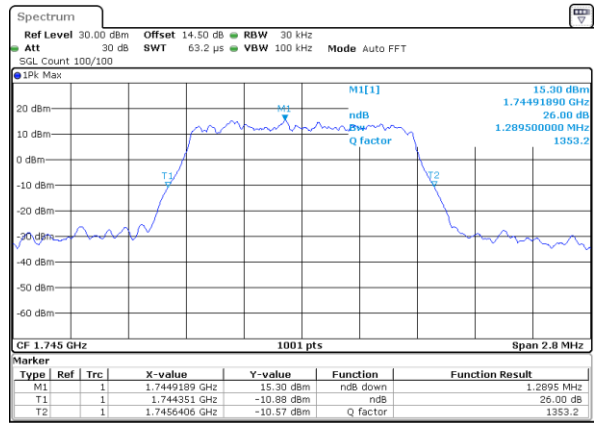
Date: 11.MAR.2020 17:44:55

Middle Channel / 1.4MHz / QPSK



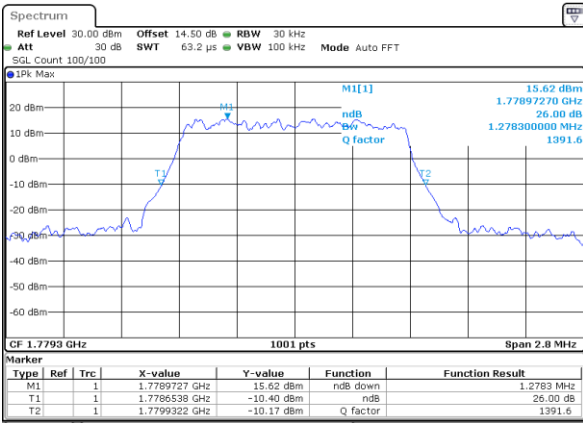
Date: 11.MAR.2020 18:12:40

Middle Channel / 1.4MHz / 16QAM



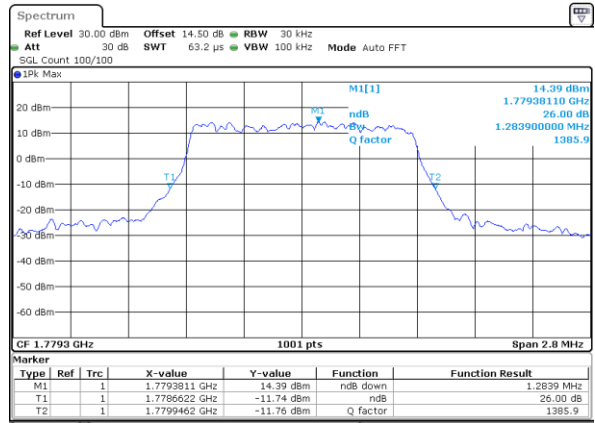
Date: 11.MAR.2020 18:12:19

Highest Channel / 1.4MHz / QPSK



Date: 11.MAR.2020 18:26:46

Highest Channel / 1.4MHz / 16QAM

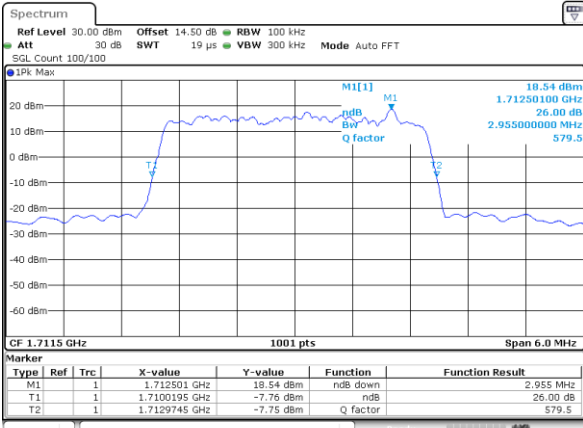


Date: 11.MAR.2020 18:28:21



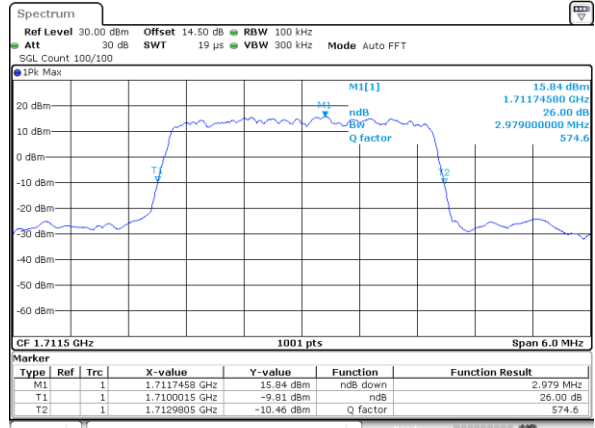
LTE Band 66

Lowest Channel / 3MHz / QPSK



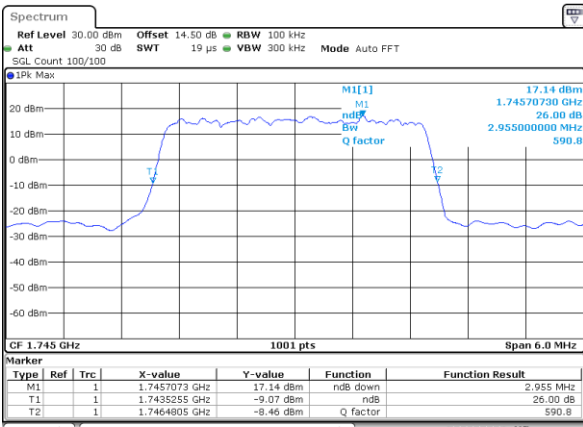
Date: 11.MAR.2020 18:41:11

Lowest Channel / 3MHz / 16QAM



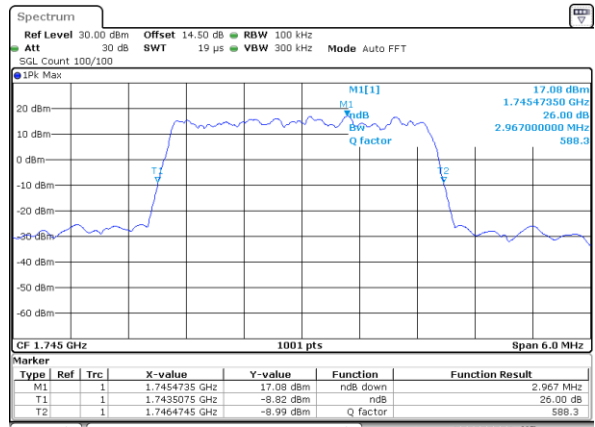
Date: 11.MAR.2020 18:42:10

Middle Channel / 3MHz / QPSK



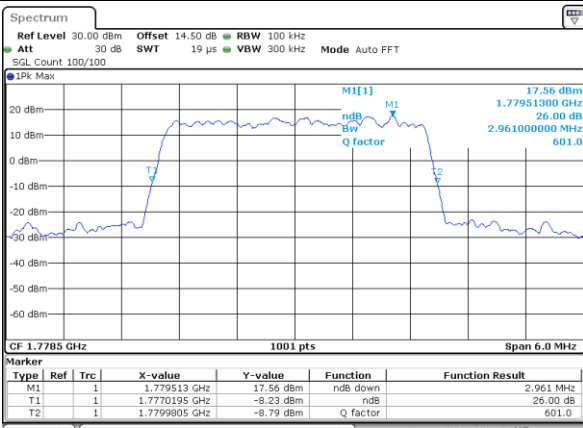
Date: 11.MAR.2020 18:57:44

Middle Channel / 3MHz / 16QAM



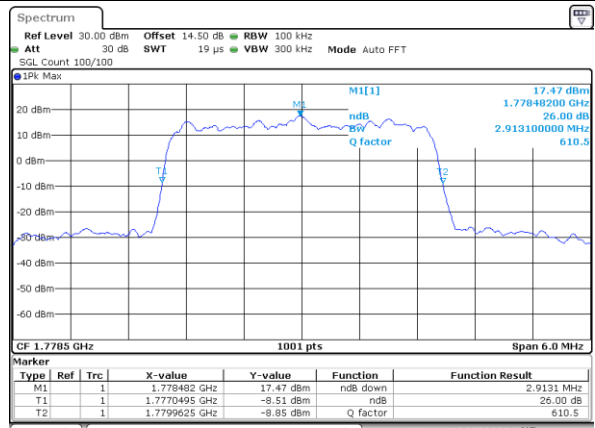
Date: 11.MAR.2020 18:57:23

Highest Channel / 3MHz / QPSK



Date: 11.MAR.2020 18:58:31

Highest Channel / 3MHz / 16QAM

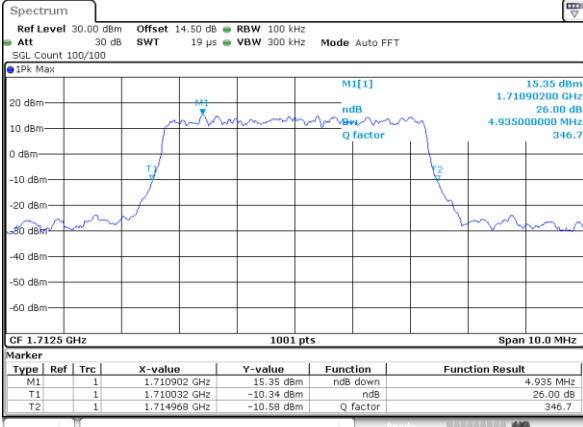


Date: 11.MAR.2020 18:59:44



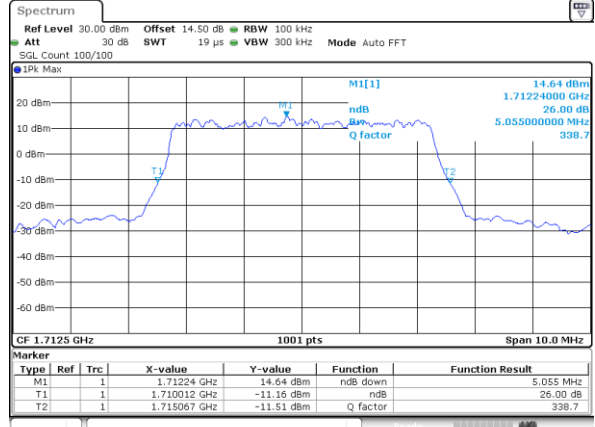
LTE Band 66

Lowest Channel / 5MHz / QPSK



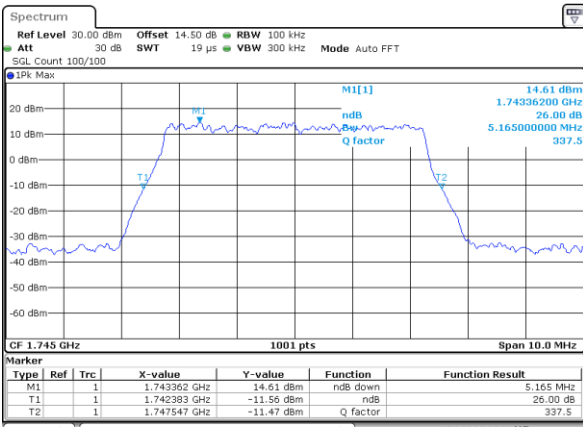
Date: 11.MAR.2020 19:17:04

Lowest Channel / 5MHz / 16QAM



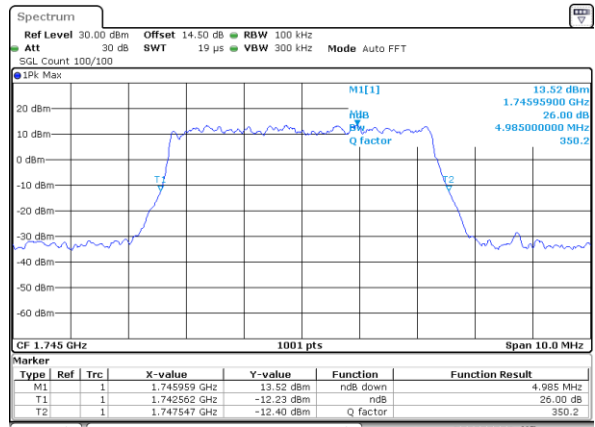
Date: 11.MAR.2020 19:15:34

Middle Channel / 5MHz / QPSK



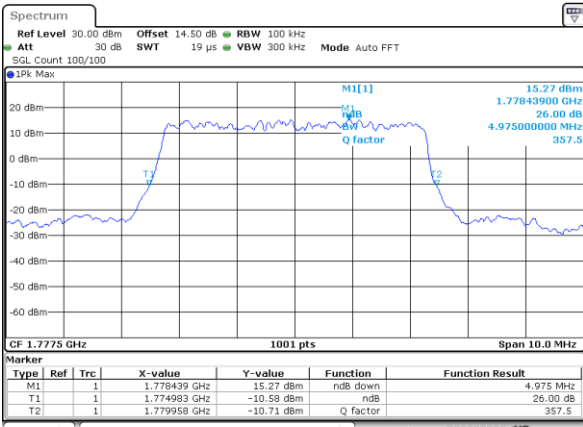
Date: 11.MAR.2020 20:08:38

Middle Channel / 5MHz / 16QAM



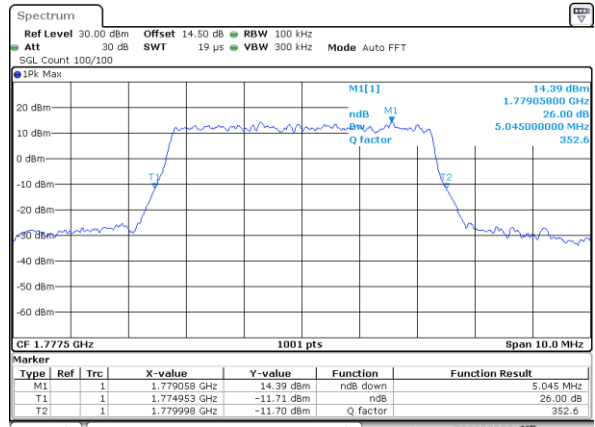
Date: 11.MAR.2020 20:09:00

Highest Channel / 5MHz / QPSK



Date: 11.MAR.2020 20:14:16

Highest Channel / 5MHz / 16QAM

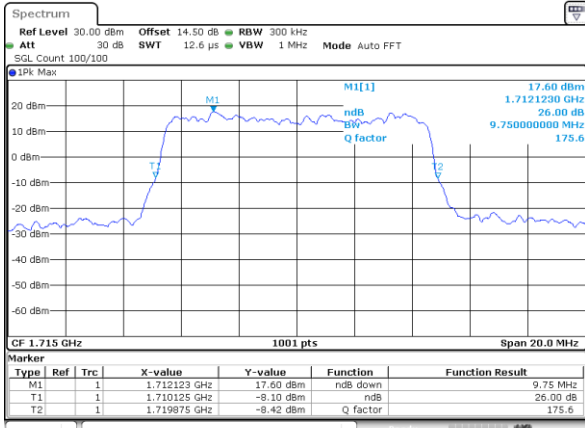


Date: 11.MAR.2020 20:12:49



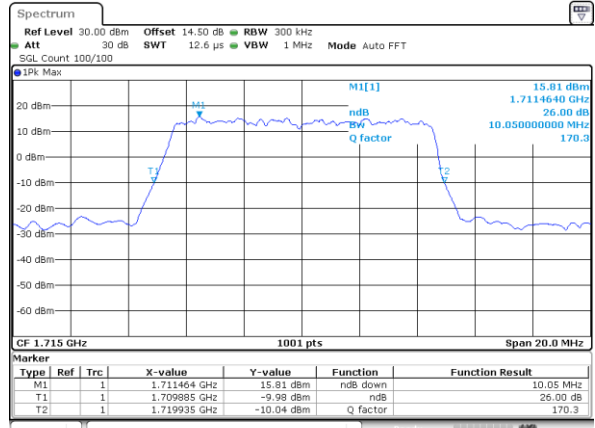
LTE Band 66

Lowest Channel / 10MHz / QPSK



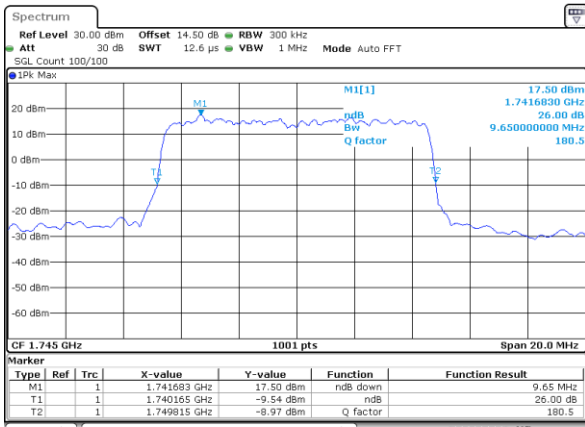
Date: 11.MAR.2020 20:30:53

Lowest Channel / 10MHz / 16QAM



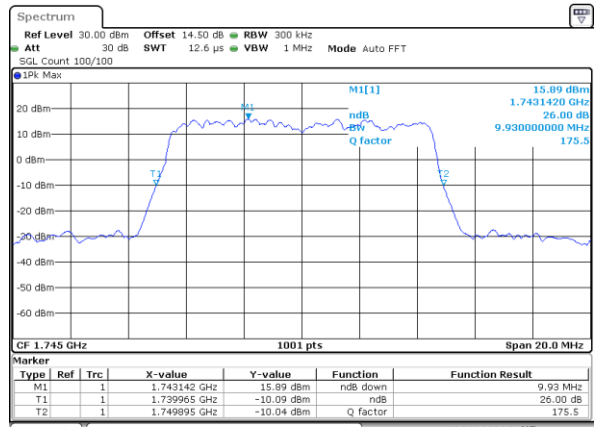
Date: 11.MAR.2020 20:31:31

Middle Channel / 10MHz / QPSK



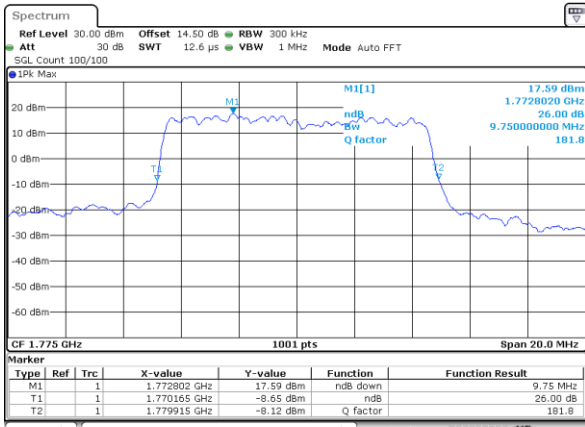
Date: 11.MAR.2020 20:57:03

Middle Channel / 10MHz / 16QAM



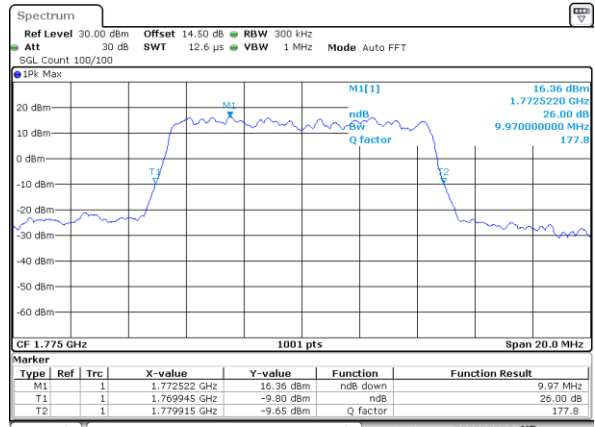
Date: 11.MAR.2020 20:56:41

Highest Channel / 10MHz / QPSK



Date: 11.MAR.2020 20:57:47

Highest Channel / 10MHz / 16QAM

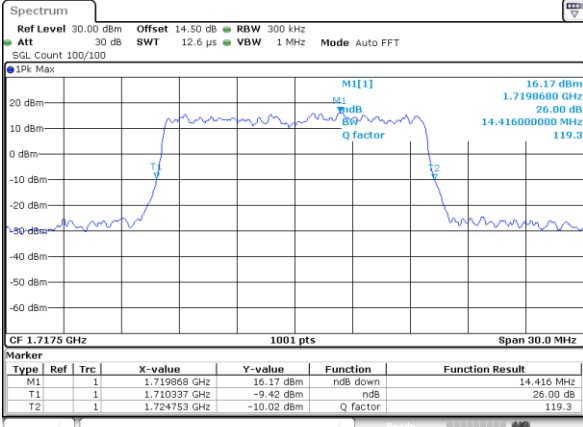


Date: 11.MAR.2020 20:58:25



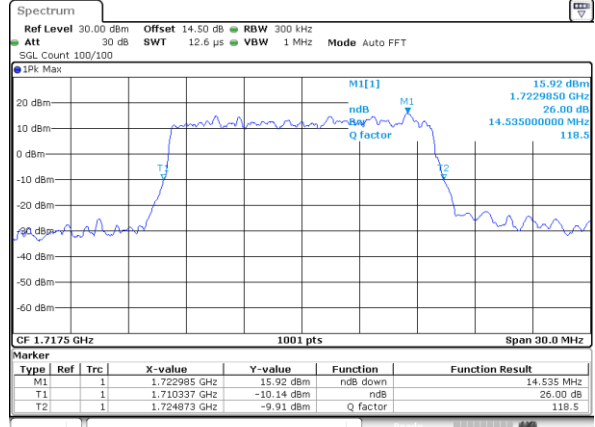
LTE Band 66

Lowest Channel / 15MHz / QPSK



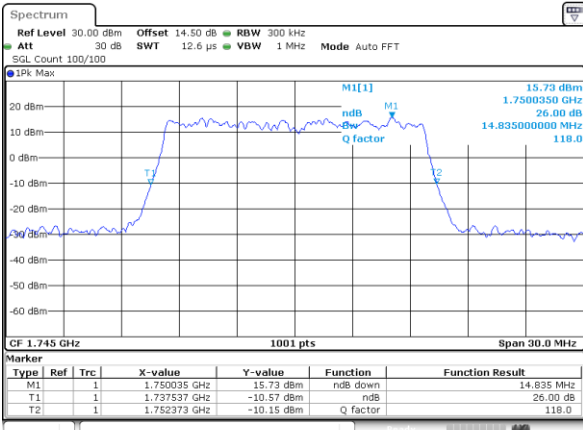
Date: 11.MAR.2020 21:18:45

Lowest Channel / 15MHz / 16QAM



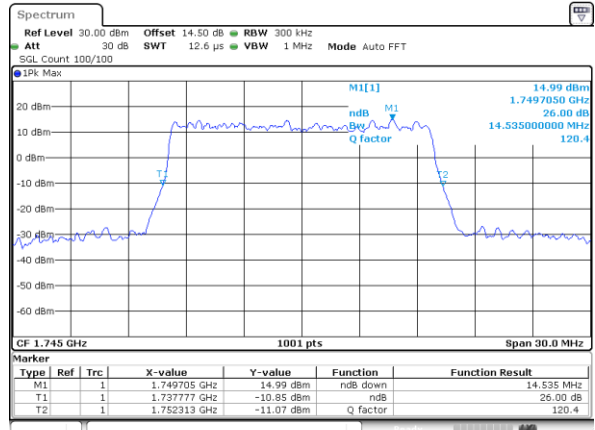
Date: 11.MAR.2020 21:18:01

Middle Channel / 15MHz / QPSK



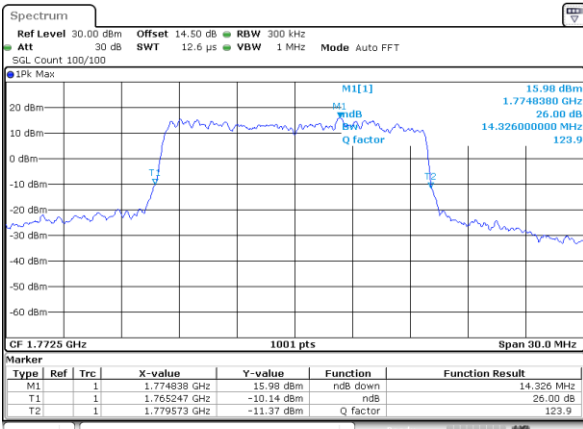
Date: 11.MAR.2020 21:28:15

Middle Channel / 15MHz / 16QAM



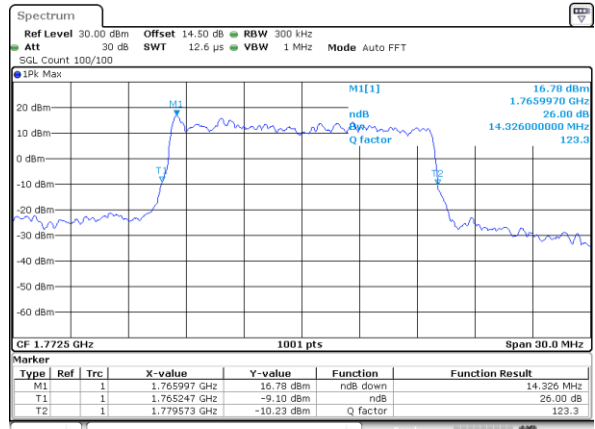
Date: 11.MAR.2020 21:28:36

Highest Channel / 15MHz / QPSK



Date: 11.MAR.2020 21:31:38

Highest Channel / 15MHz / 16QAM

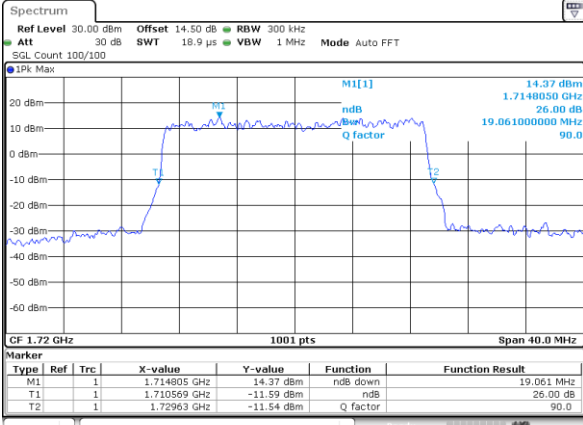


Date: 11.MAR.2020 21:31:06



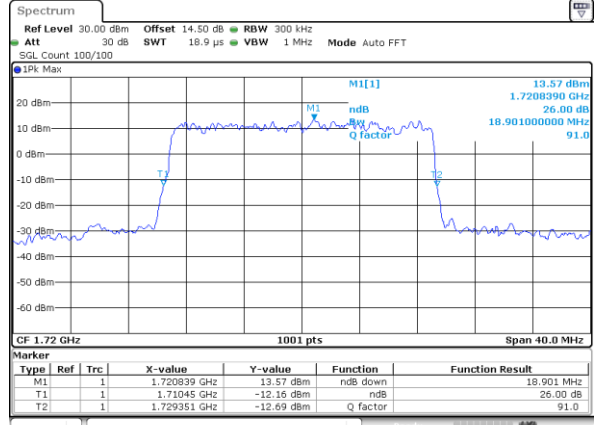
LTE Band 66

Lowest Channel / 20MHz / QPSK



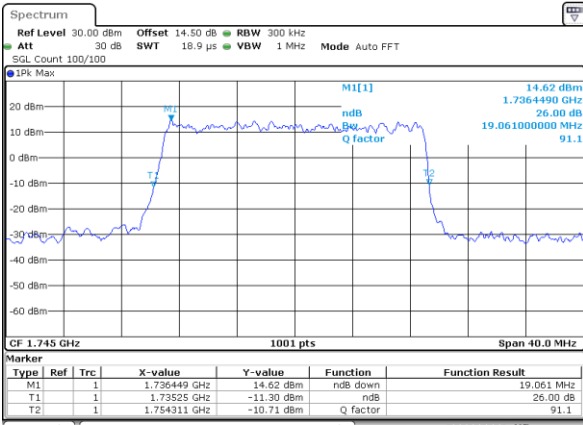
Date: 11.MAR.2020 21:50:57

Lowest Channel / 20MHz / 16QAM



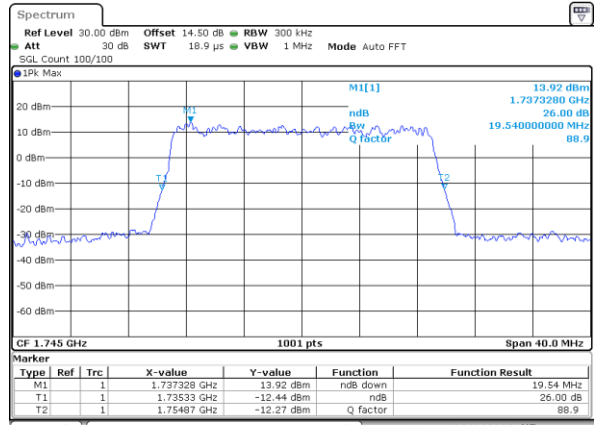
Date: 11.MAR.2020 21:51:34

Middle Channel / 20MHz / QPSK



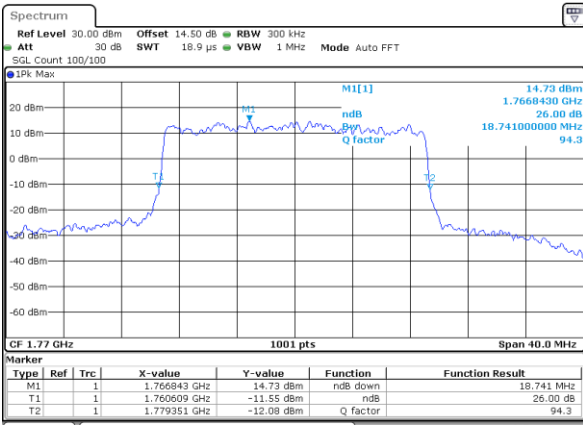
Date: 11.MAR.2020 22:36:39

Middle Channel / 20MHz / 16QAM



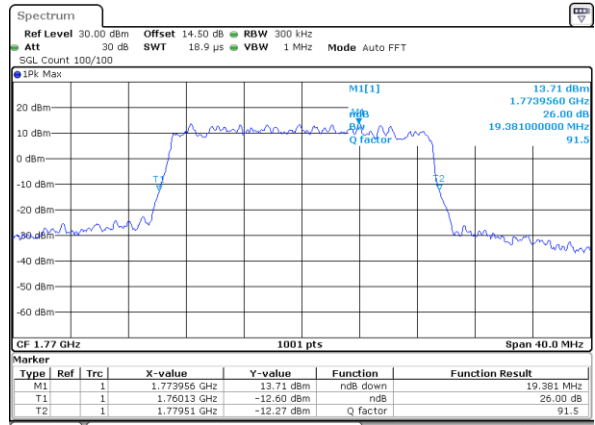
Date: 11.MAR.2020 22:38:16

Highest Channel / 20MHz / QPSK



Date: 11.MAR.2020 22:37:37

Highest Channel / 20MHz / 16QAM

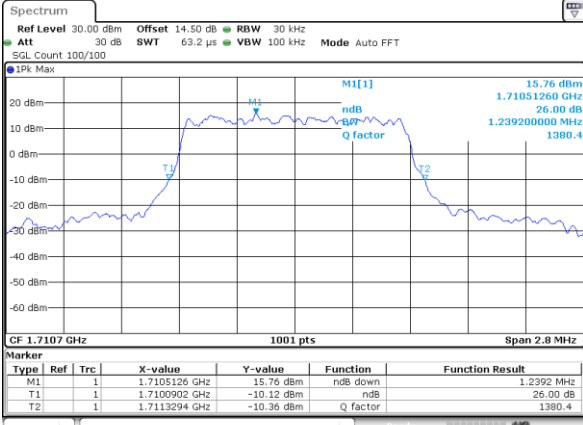


Date: 11.MAR.2020 22:38:14



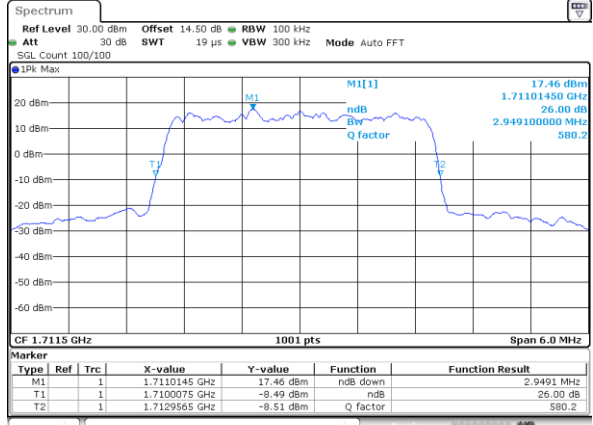
LTE Band 66

Lowest Channel / 1.4MHz / 64QAM



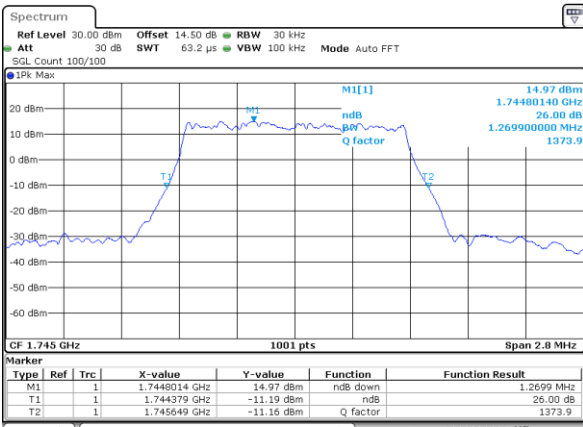
Date: 11.MAR.2020 17:47:57

Lowest Channel / 3MHz / 64QAM



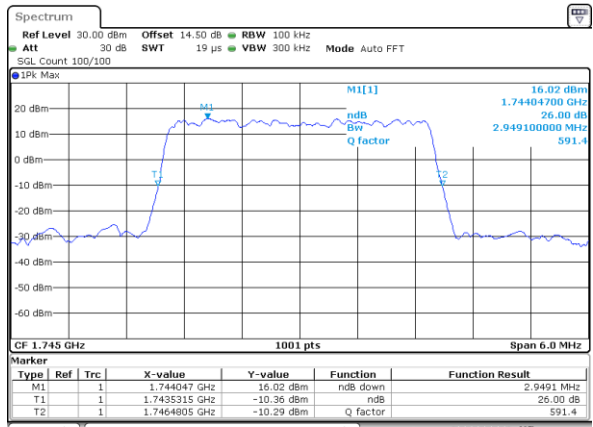
Date: 11.MAR.2020 18:43:26

Middle Channel / 20MHz / 64QAM



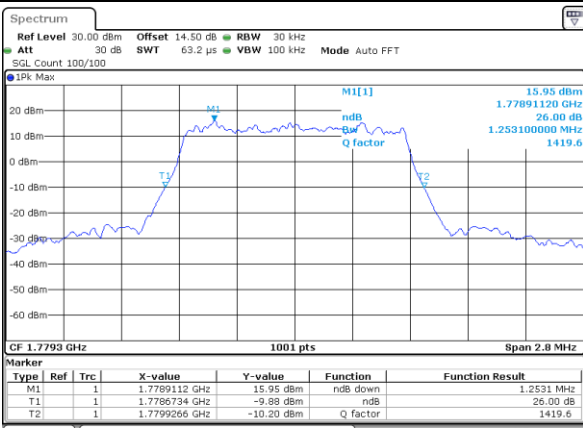
Date: 11.MAR.2020 18:11:52

Middle Channel / 3MHz / 64QAM



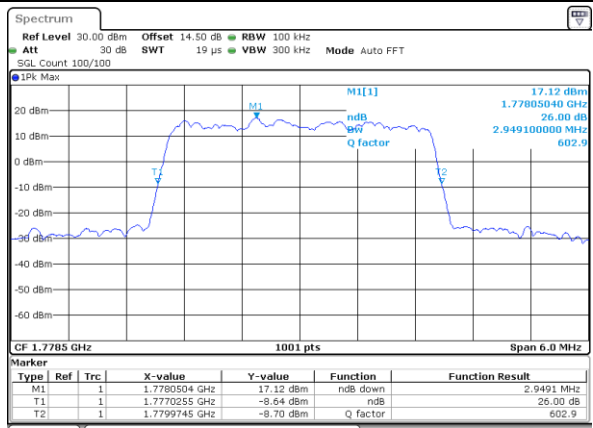
Date: 11.MAR.2020 18:56:57

Highest Channel / 20MHz / 64QAM



Date: 11.MAR.2020 18:30:06

Highest Channel / 3MHz / 64QAM



Date: 11.MAR.2020 19:01:09