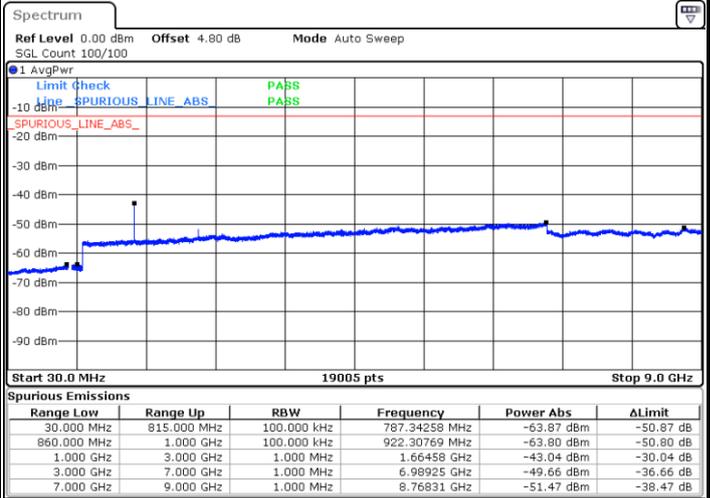
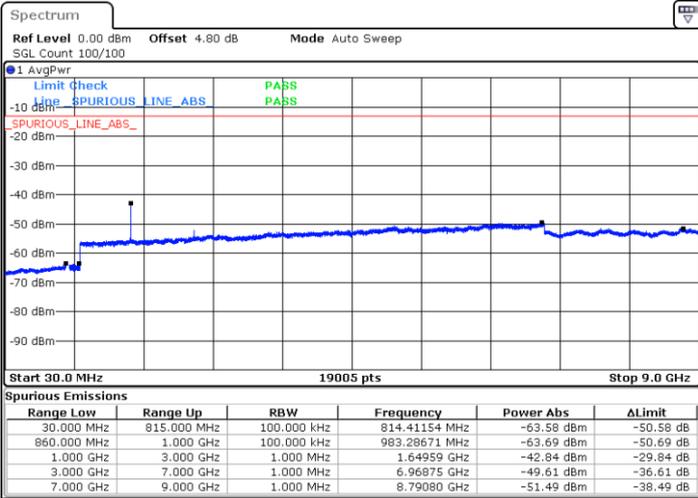




LTE Band 5 / 10MHz

Lowest Channel / 64QAM

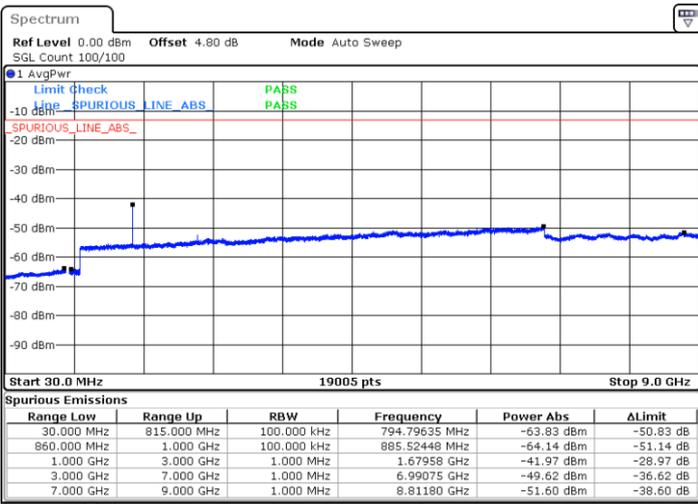
Middle Channel / 64QAM



Date: 31.OCT.2020 00:43:12

Date: 31.OCT.2020 00:44:07

Highest Channel / 64QAM



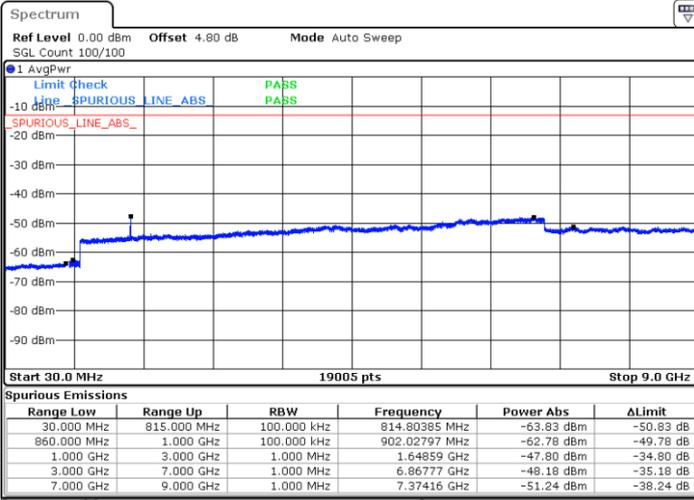
Date: 31.OCT.2020 00:48:56



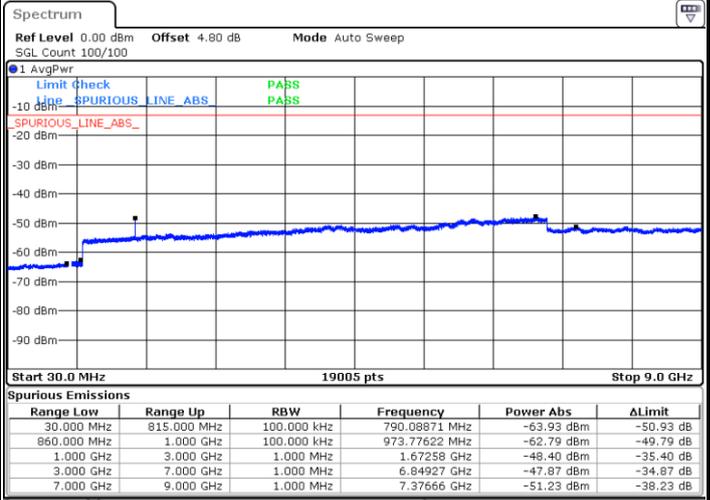
LTE Band 5/ 1.4MHz

Lowest Channel / 256QAM

Middle Channel / 256QAM

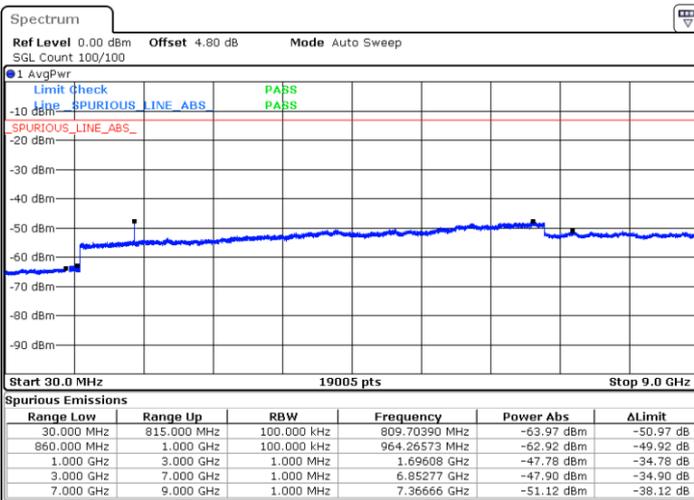


Date: 12.NOV.2020 17:37:44



Date: 12.NOV.2020 17:39:12

Highest Channel / 256QAM



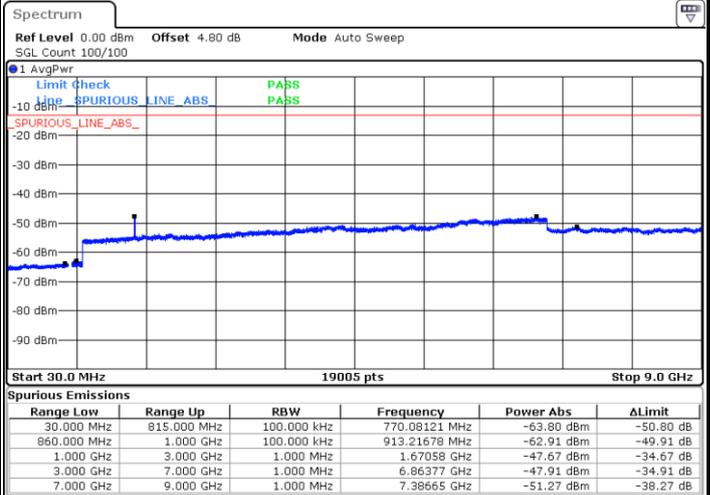
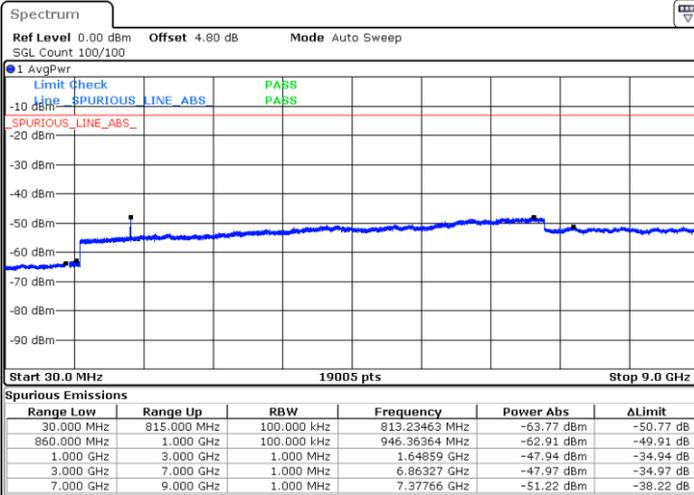
Date: 12.NOV.2020 17:44:25



LTE Band 5 / 3MHz

Lowest Channel / 256QAM

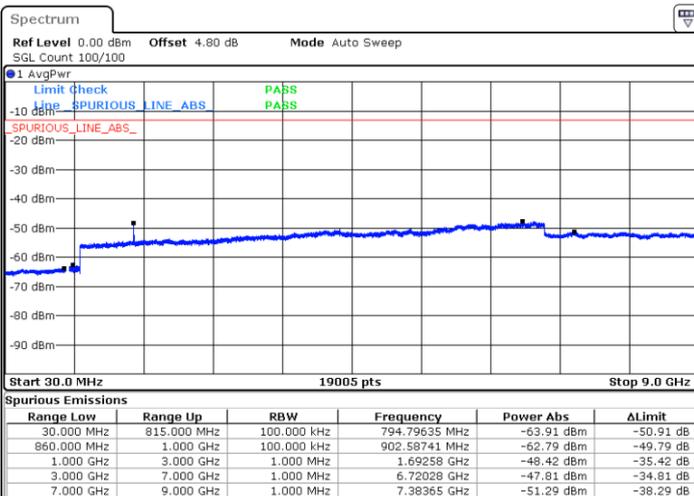
Middle Channel / 256QAM



Date: 12.NOV.2020 17:52:39

Date: 12.NOV.2020 17:56:49

Highest Channel / 256QAM



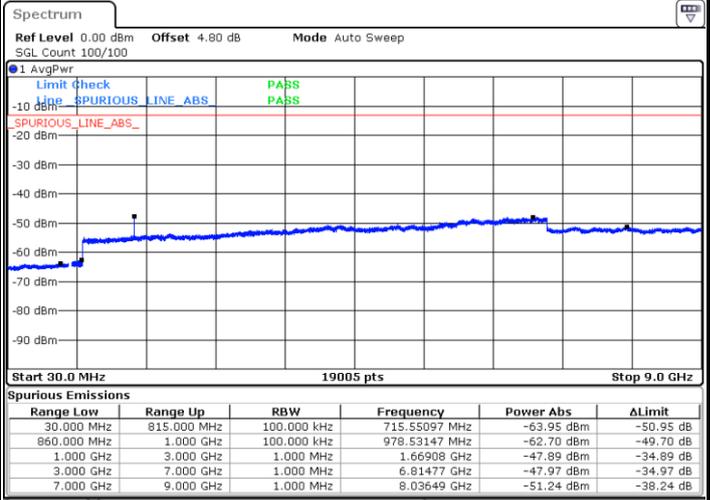
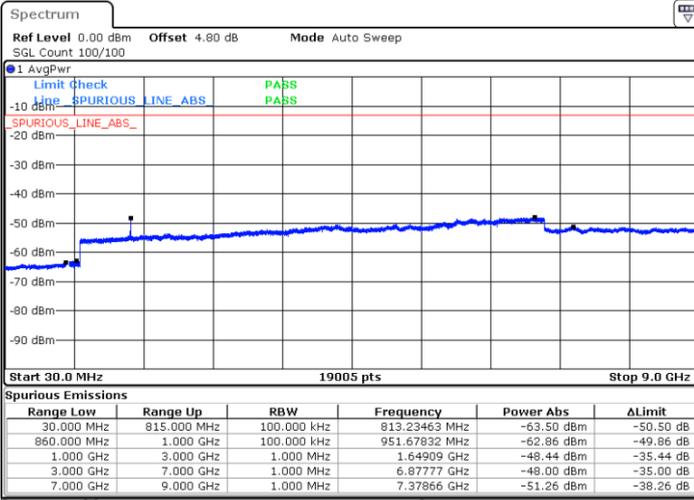
Date: 12.NOV.2020 18:01:05



LTE Band 5/ 5MHz

Lowest Channel / 256QAM

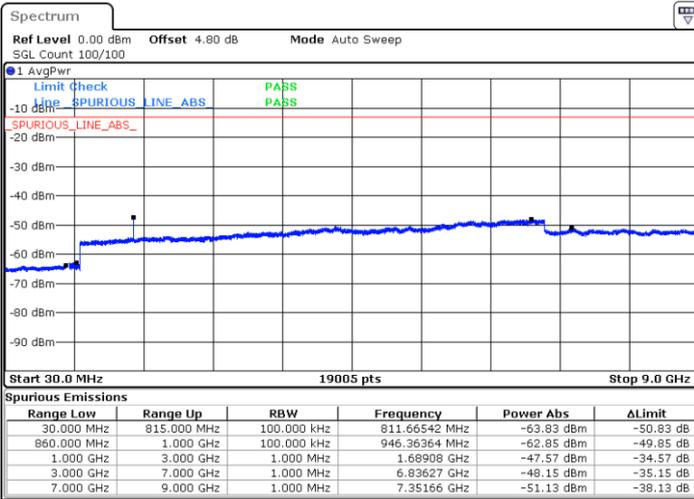
Middle Channel / 256QAM



Date: 12.NOV.2020 18:07:26

Date: 12.NOV.2020 18:08:18

Highest Channel / 256QAM



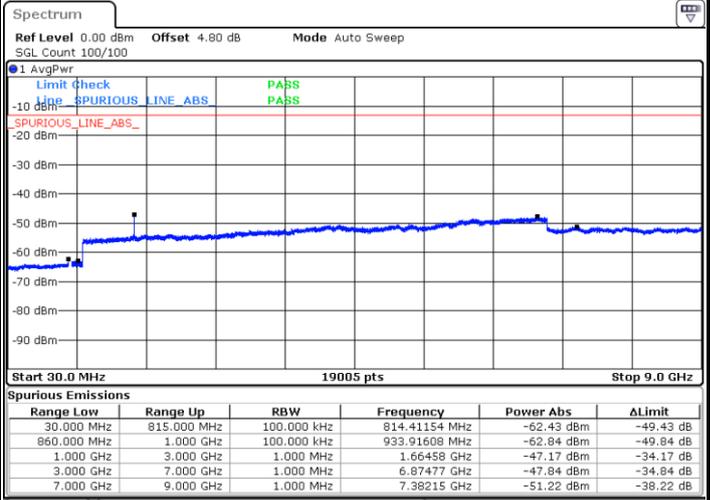
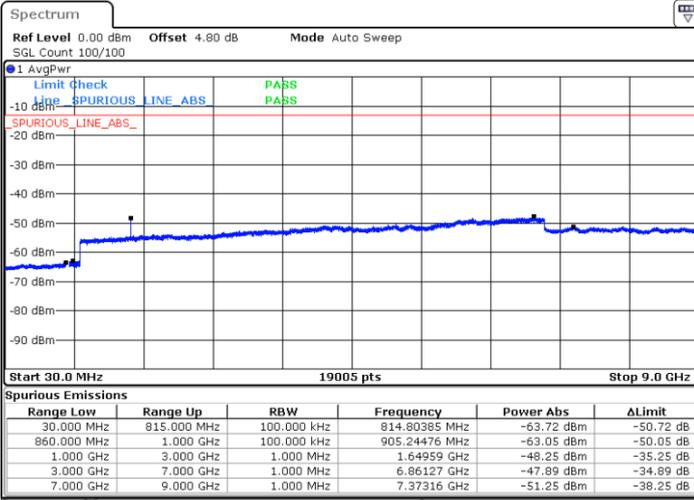
Date: 12.NOV.2020 18:11:27



LTE Band 5/ 10MHz

Lowest Channel / 256QAM

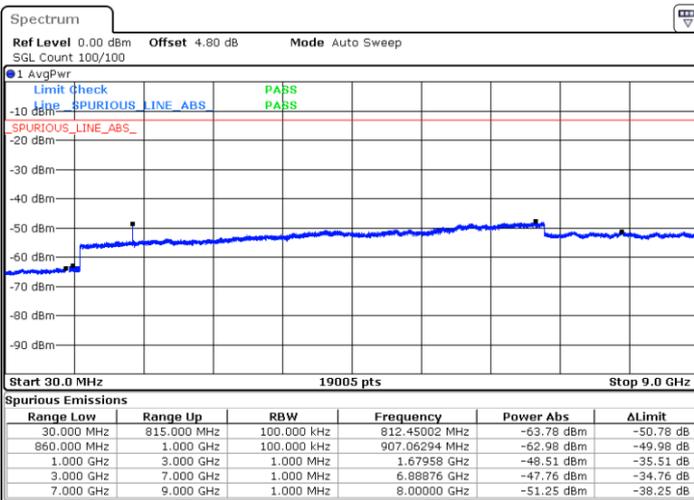
Middle Channel / 256QAM



Date: 12.NOV.2020 18:17:34

Date: 12.NOV.2020 18:18:28

Highest Channel / 256QAM



Date: 12.NOV.2020 18:22:15



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0050	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0038	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.87 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 12

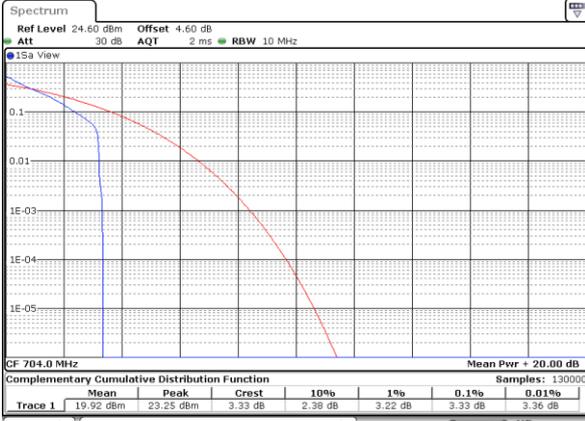
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.33	4.81	4.67	5.71	PASS
Middle CH	3.68	4.90	5.77	5.74	
Highest CH	3.88	4.72	4.58	5.86	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM		256QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.74	6.23	5.71	6.35	PASS
Middle CH	6.75	6.26	7.94	6.41	
Highest CH	6.67	6.52	8.12	6.58	



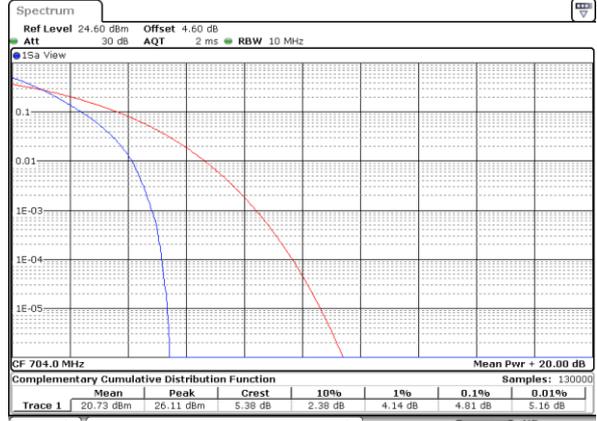
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



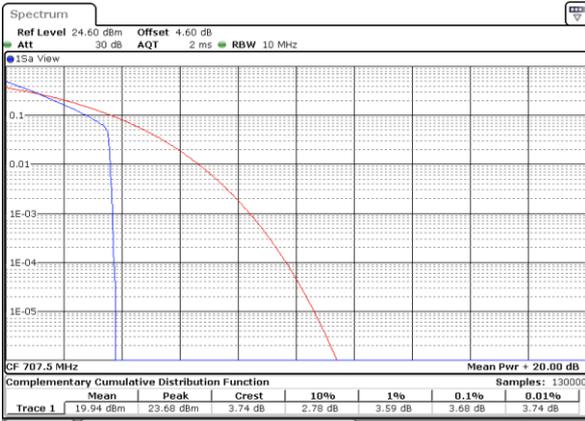
Date: 9 NOV 2020 11:36:04

Lowest Channel / Full RB



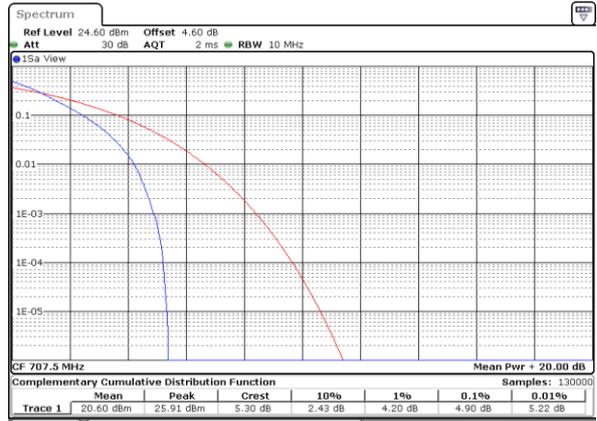
Date: 9 NOV 2020 11:36:13

Middle Channel / 1RB



Date: 9 NOV 2020 11:36:52

Middle Channel / Full RB



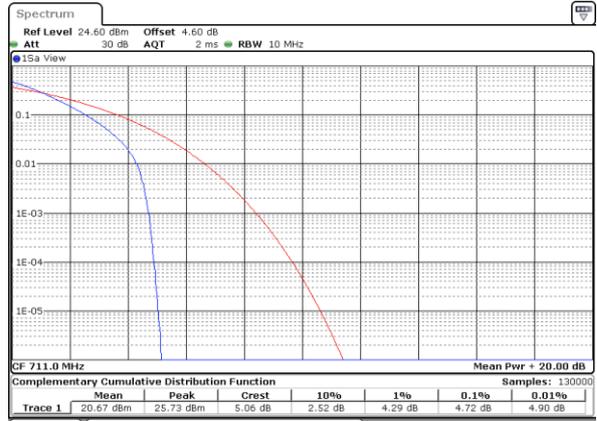
Date: 9 NOV 2020 11:36:41

Highest Channel / 1RB



Date: 9 NOV 2020 11:37:22

Highest Channel / Full RB

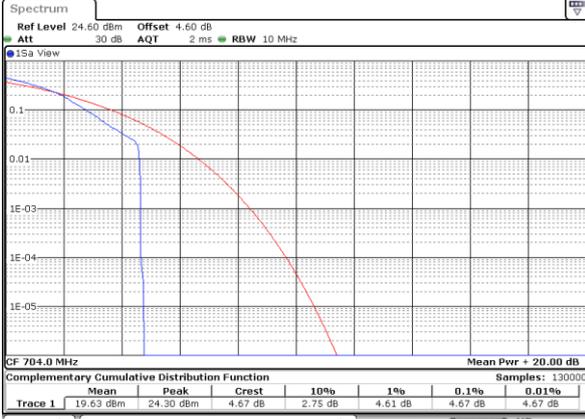


Date: 9 NOV 2020 11:37:34



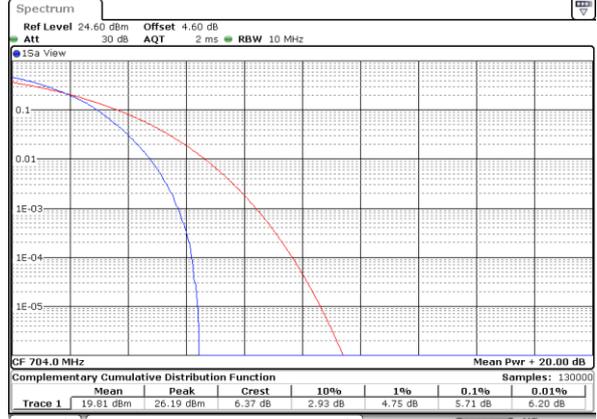
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 9 NOV 2020 11:35:55

Lowest Channel / Full RB



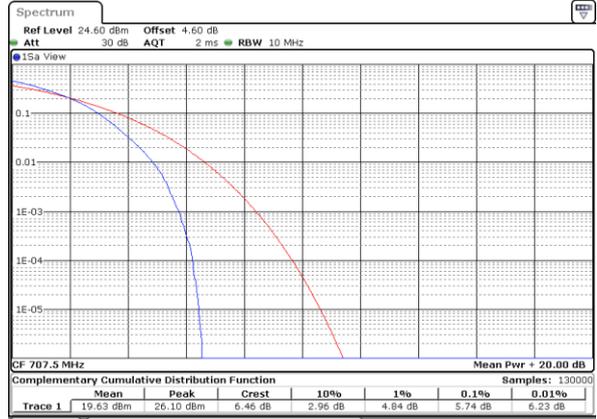
Date: 9 NOV 2020 11:36:23

Middle Channel / 1RB



Date: 9 NOV 2020 11:37:02

Middle Channel / Full RB



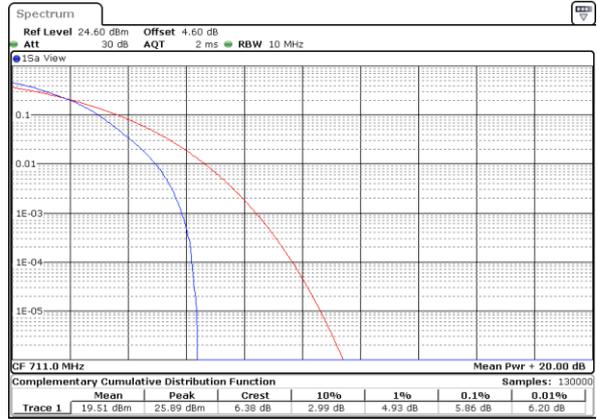
Date: 9 NOV 2020 11:36:32

Highest Channel / 1RB



Date: 9 NOV 2020 11:37:12

Highest Channel / Full RB

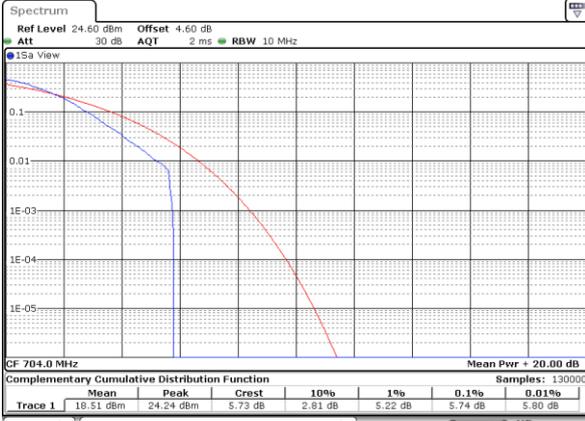


Date: 9 NOV 2020 11:37:45



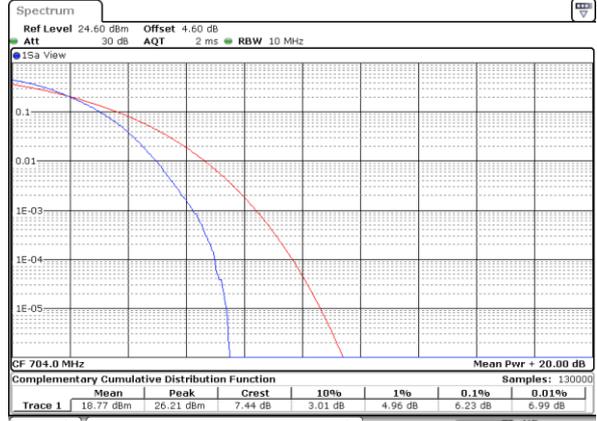
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



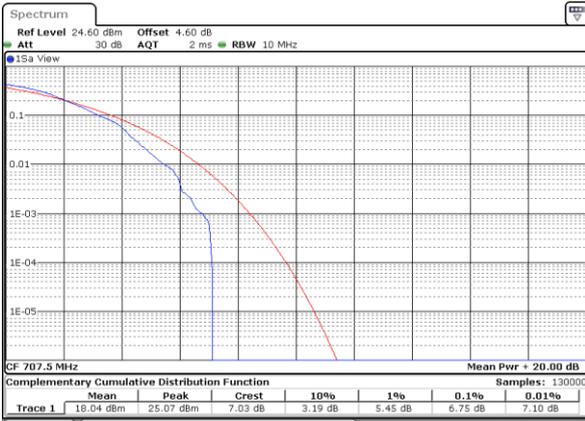
Date: 9 NOV 2020 11:34:51

Lowest Channel / Full RB



Date: 9 NOV 2020 11:35:02

Middle Channel / 1RB



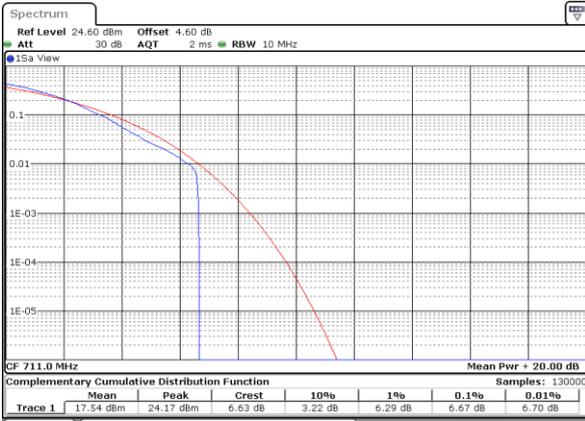
Date: 9 NOV 2020 11:35:22

Middle Channel / Full RB



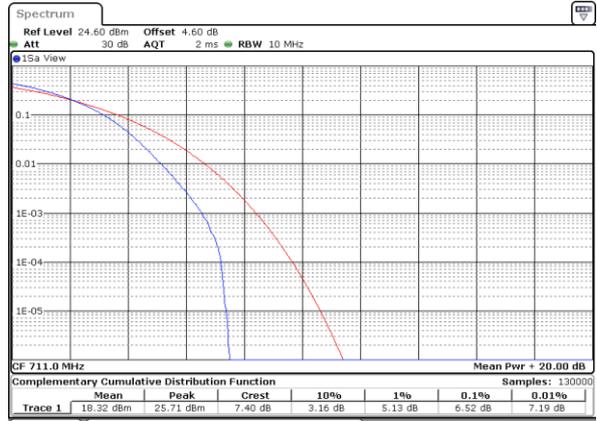
Date: 9 NOV 2020 11:35:12

Highest Channel / 1RB



Date: 9 NOV 2020 11:35:33

Highest Channel / Full RB

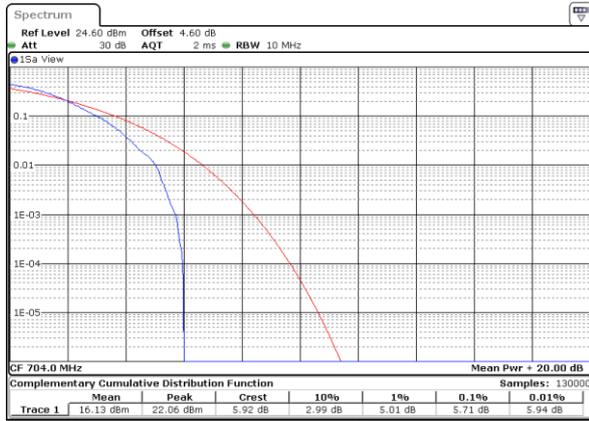


Date: 9 NOV 2020 11:35:42



LTE Band 12 / 10MHz / 256QAM

Lowest Channel / 1RB



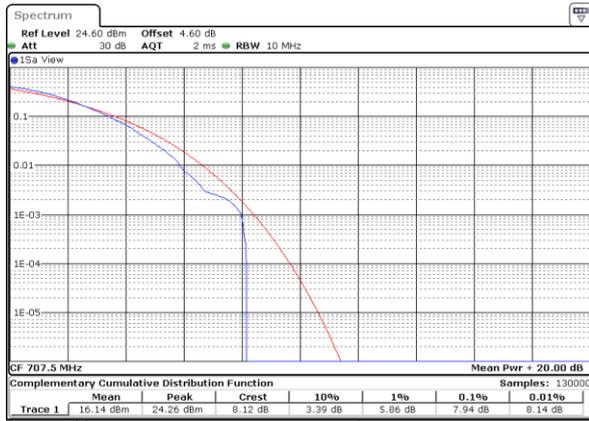
Date: 16 NOV 2020 19:32:56

Lowest Channel / Full RB



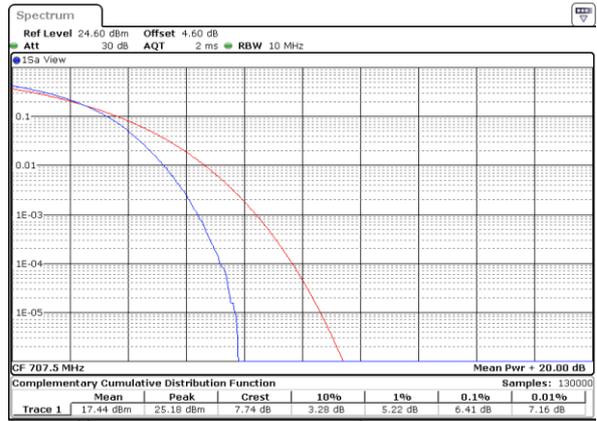
Date: 16 NOV 2020 19:32:43

Middle Channel / 1RB



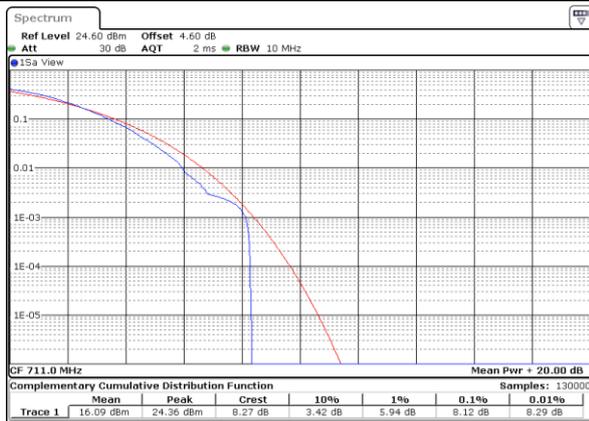
Date: 16 NOV 2020 19:31:52

Middle Channel / Full RB



Date: 16 NOV 2020 19:32:07

Highest Channel / 1RB



Date: 16 NOV 2020 19:31:29

Highest Channel / Full RB



Date: 16 NOV 2020 19:31:16



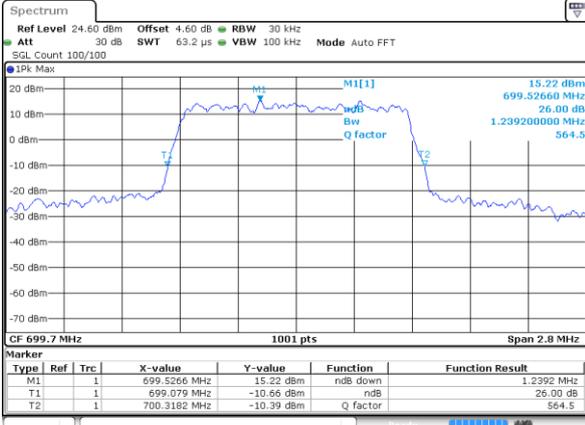
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Lowest CH	1.24	1.23	3.02	3.07	4.87	4.91	9.67	9.63	-	-	-	-
Middle CH	1.23	1.23	3.02	2.96	4.91	4.92	9.87	9.83	-	-	-	-
Highest CH	1.22	1.22	3.00	3.00	4.93	4.83	9.77	9.65	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM				
Lowest CH	1.23	1.22	3.04	3.01	4.93	4.93	9.81	9.77	-	-	-	-
Middle CH	1.21	1.23	2.97	3.07	4.91	4.89	9.85	9.69	-	-	-	-
Highest CH	1.23	1.22	3.06	3.02	4.85	4.96	9.63	9.61	-	-	-	-



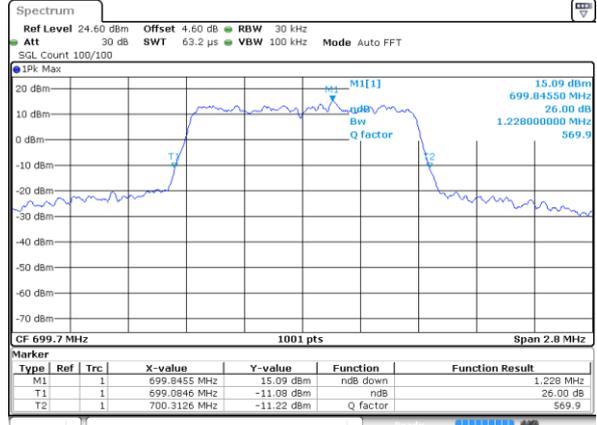
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



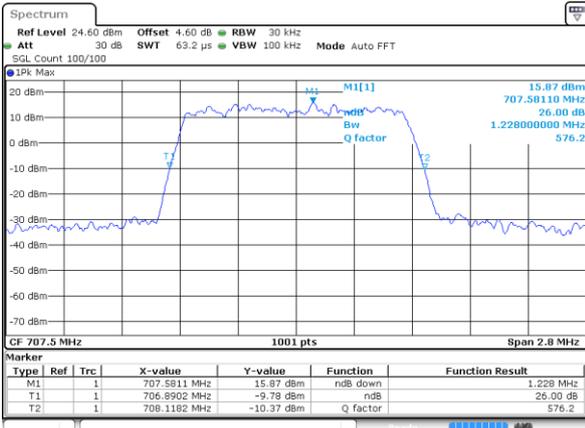
Date: 9 NOV 2020 09:37:53

Lowest Channel / 1.4MHz / 16QAM



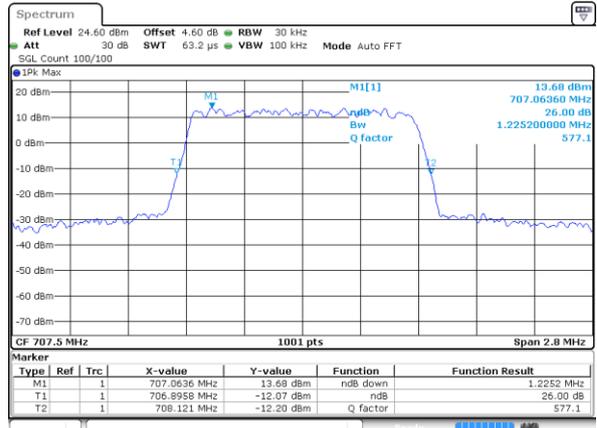
Date: 9 NOV 2020 09:37:43

Middle Channel / 1.4MHz / QPSK



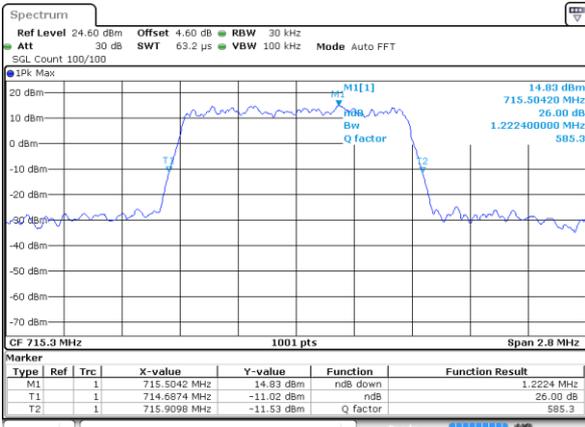
Date: 9 NOV 2020 09:37:24

Middle Channel / 1.4MHz / 16QAM



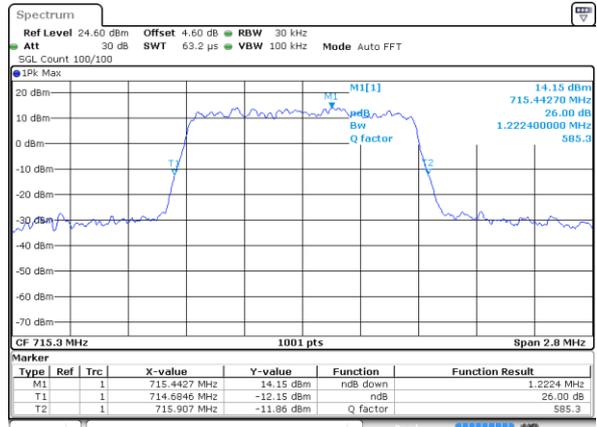
Date: 9 NOV 2020 09:37:33

Highest Channel / 1.4MHz / QPSK



Date: 9 NOV 2020 09:37:14

Highest Channel / 1.4MHz / 16QAM

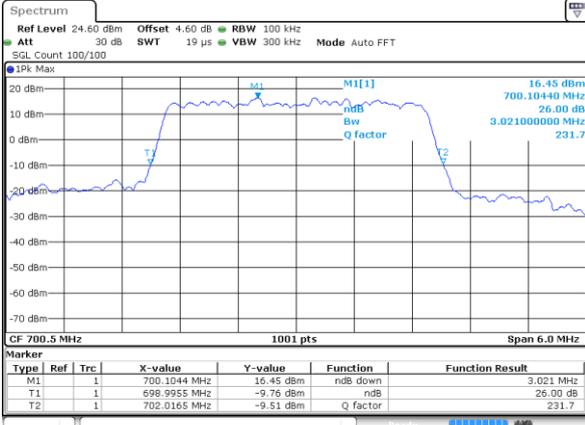


Date: 9 NOV 2020 09:37:04



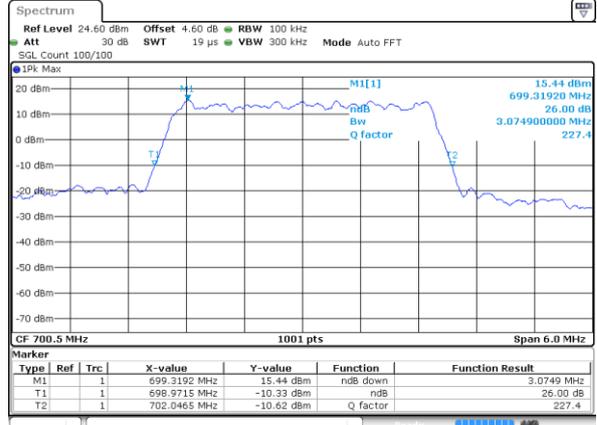
LTE Band 12

Lowest Channel / 3MHz / QPSK



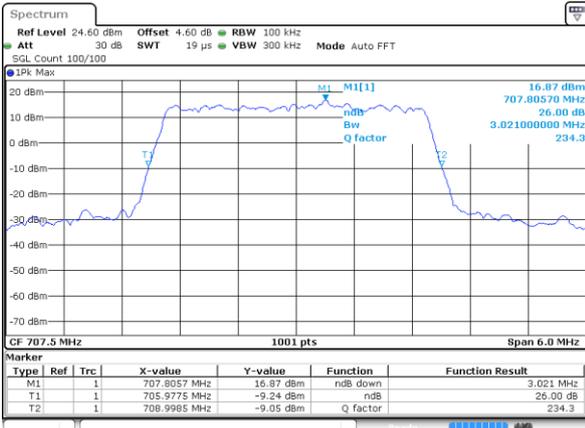
Date: 9 NOV 2020 09:55:47

Lowest Channel / 3MHz / 16QAM



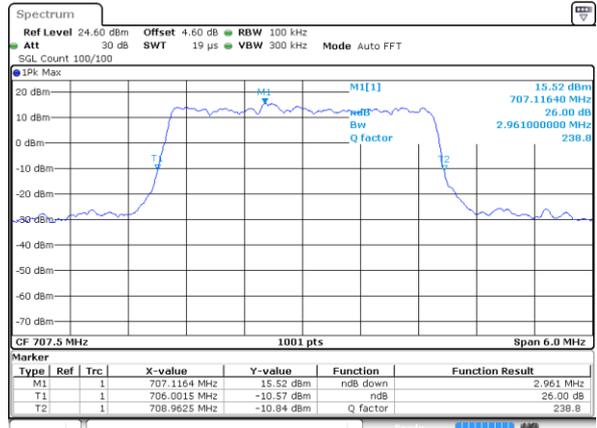
Date: 9 NOV 2020 09:55:37

Middle Channel / 3MHz / QPSK



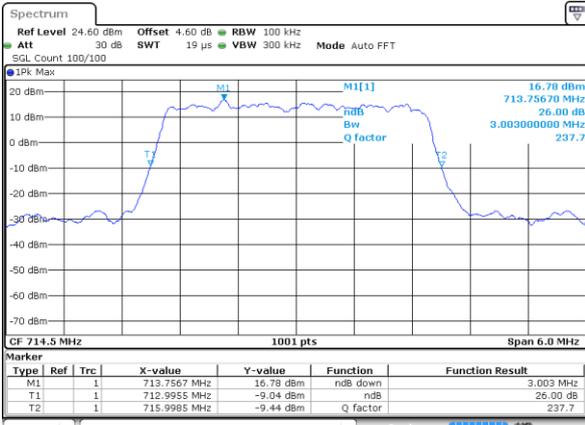
Date: 9 NOV 2020 09:55:17

Middle Channel / 3MHz / 16QAM



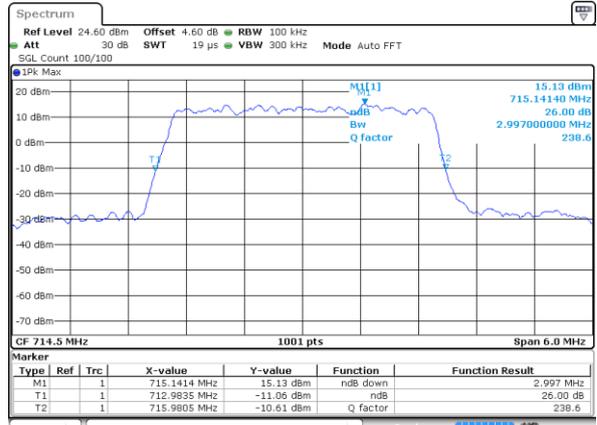
Date: 9 NOV 2020 09:55:27

Highest Channel / 3MHz / QPSK



Date: 9 NOV 2020 09:55:08

Highest Channel / 3MHz / 16QAM

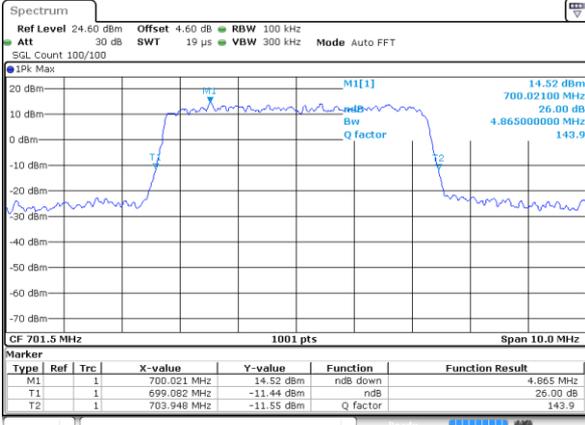


Date: 9 NOV 2020 09:54:58



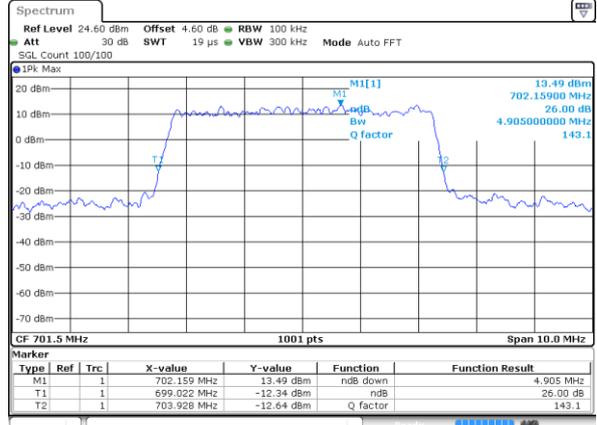
LTE Band 12

Lowest Channel / 5MHz / QPSK



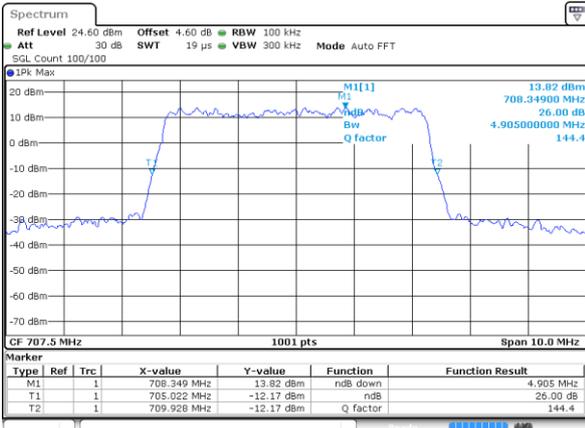
Date: 9 NOV 2020 10:13:13

Lowest Channel / 5MHz / 16QAM



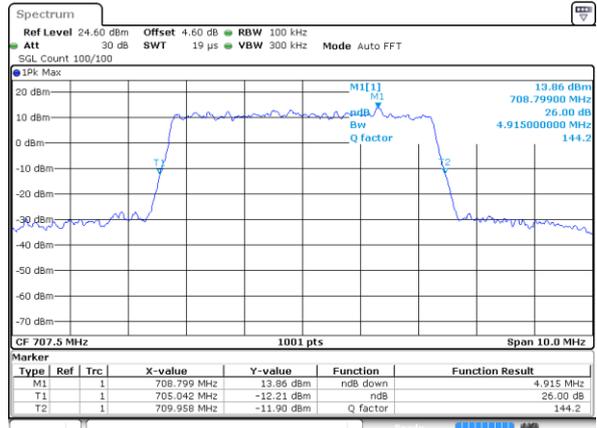
Date: 9 NOV 2020 10:13:03

Middle Channel / 5MHz / QPSK



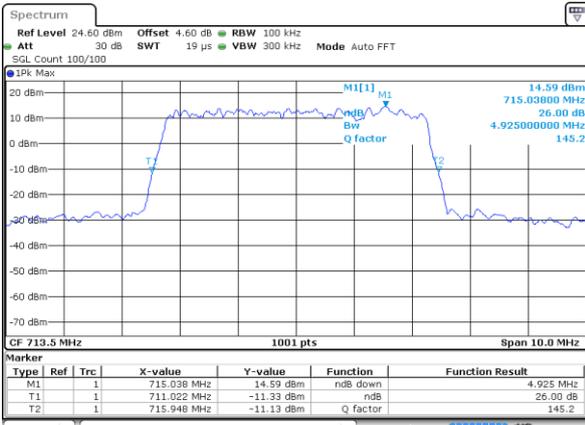
Date: 9 NOV 2020 10:12:43

Middle Channel / 5MHz / 16QAM



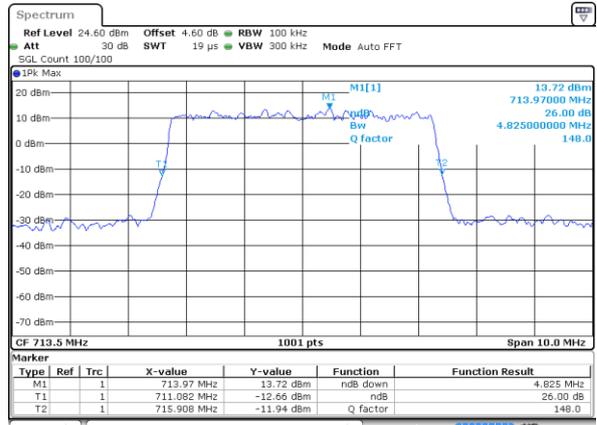
Date: 9 NOV 2020 10:12:53

Highest Channel / 5MHz / QPSK



Date: 9 NOV 2020 10:12:33

Highest Channel / 5MHz / 16QAM

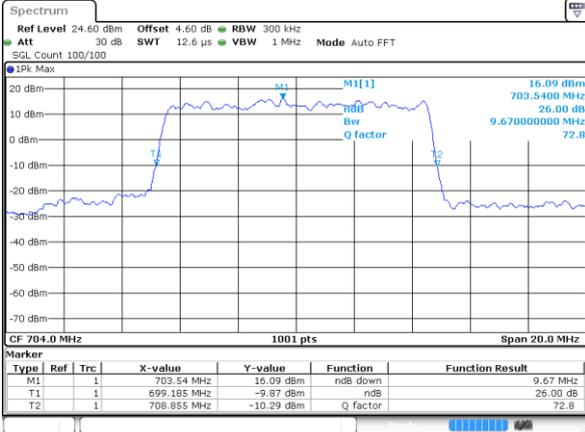


Date: 9 NOV 2020 10:12:23



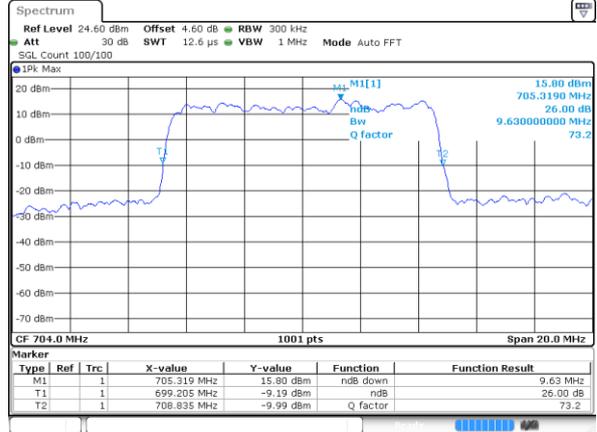
LTE Band 12

Lowest Channel / 10MHz / QPSK



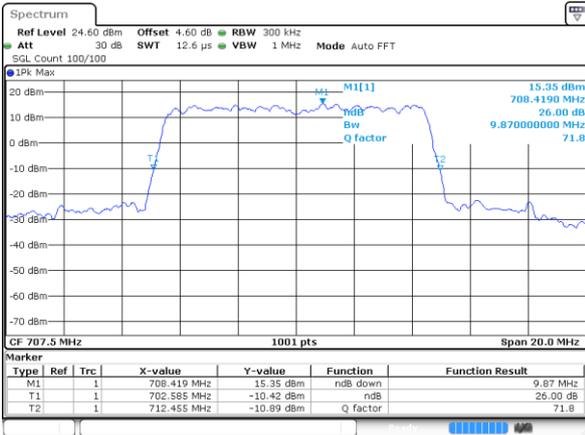
Date: 9 NOV 2020 10:30:38

Lowest Channel / 10MHz / 16QAM



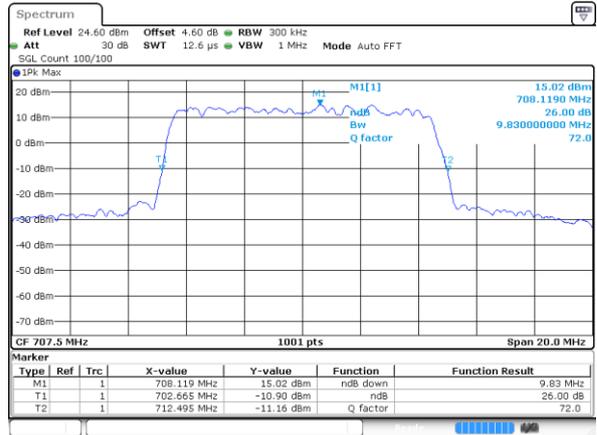
Date: 9 NOV 2020 10:30:28

Middle Channel / 10MHz / QPSK



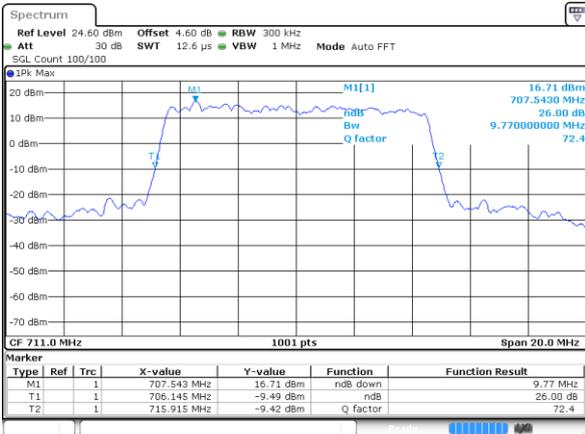
Date: 9 NOV 2020 10:30:09

Middle Channel / 10MHz / 16QAM



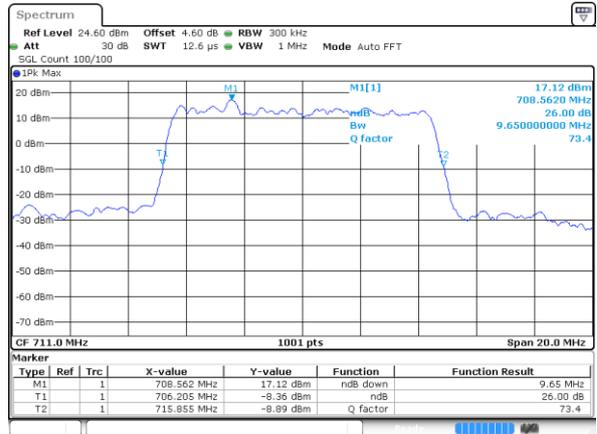
Date: 9 NOV 2020 10:30:19

Highest Channel / 10MHz / QPSK



Date: 9 NOV 2020 10:29:59

Highest Channel / 10MHz / 16QAM

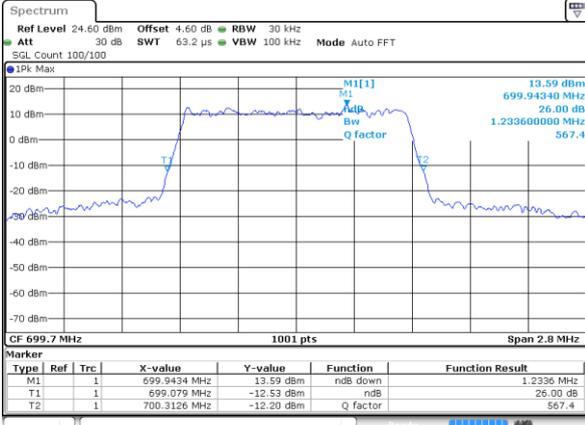


Date: 9 NOV 2020 10:29:49



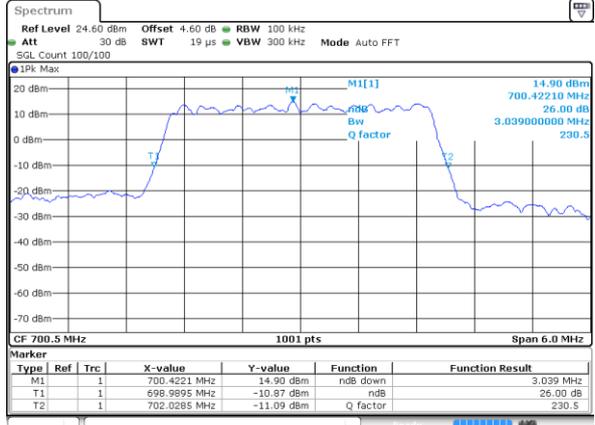
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



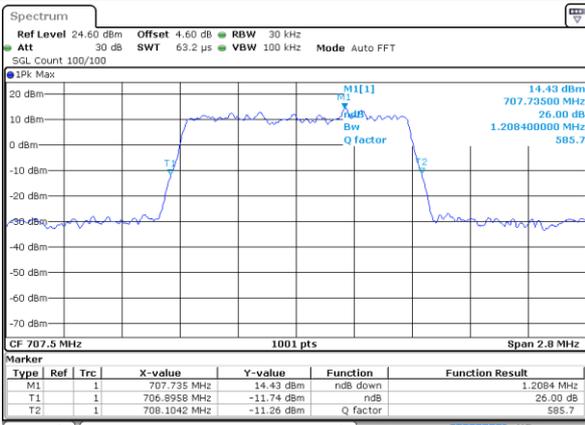
Date: 9 NOV 2020 10:54:15

Lowest Channel / 3MHz / 64QAM



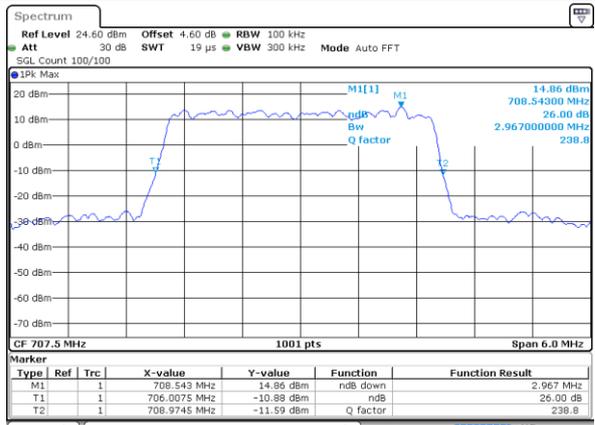
Date: 9 NOV 2020 11:07:33

Middle Channel / 1.4MHz / 64QAM



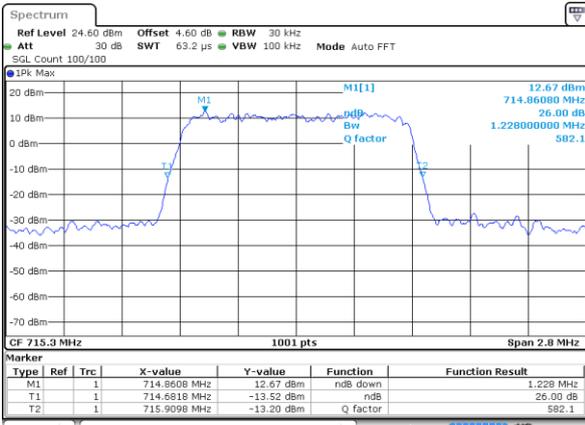
Date: 9 NOV 2020 10:54:35

Middle Channel / 3MHz / 64QAM



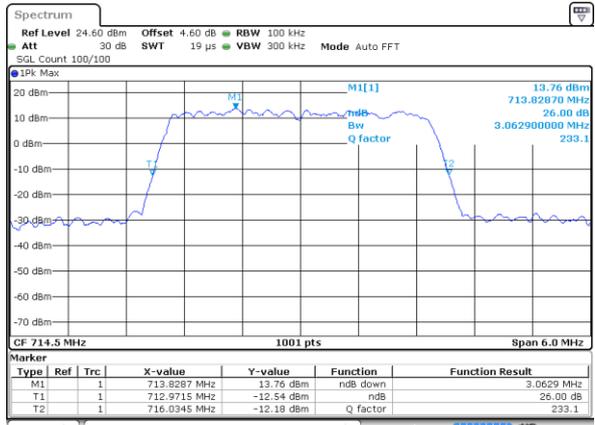
Date: 9 NOV 2020 11:07:53

Highest Channel / 1.4MHz / 64QAM



Date: 9 NOV 2020 10:54:55

Highest Channel / 3MHz / 64QAM

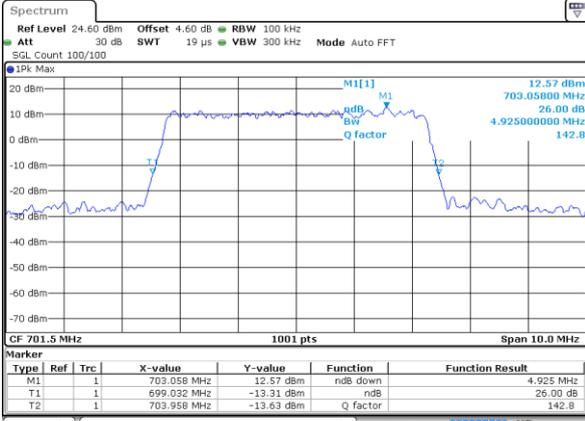


Date: 9 NOV 2020 11:08:13



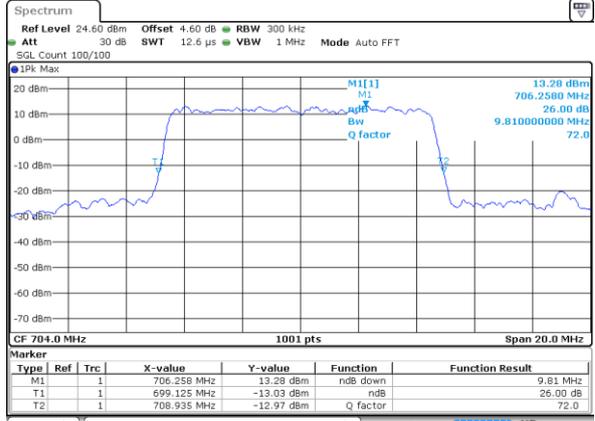
LTE Band 12

Lowest Channel / 5MHz / 64QAM



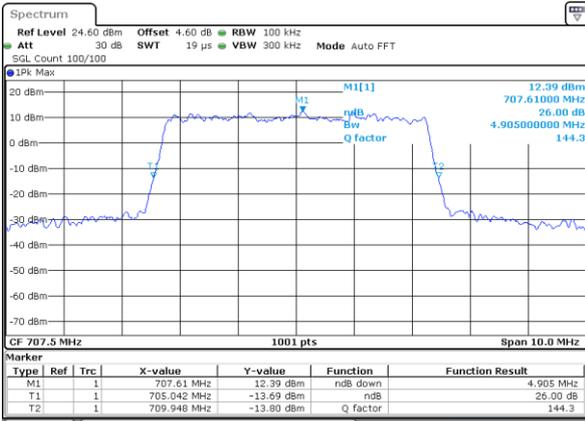
Date: 9 NOV 2020 11:16:07

Lowest Channel / 10MHz / 64QAM



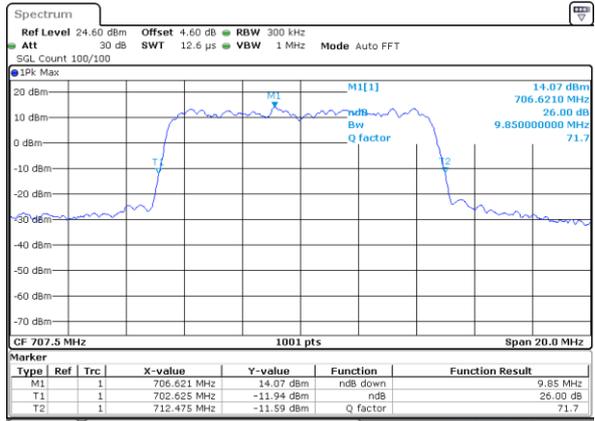
Date: 9 NOV 2020 11:28:28

Middle Channel / 5MHz / 64QAM



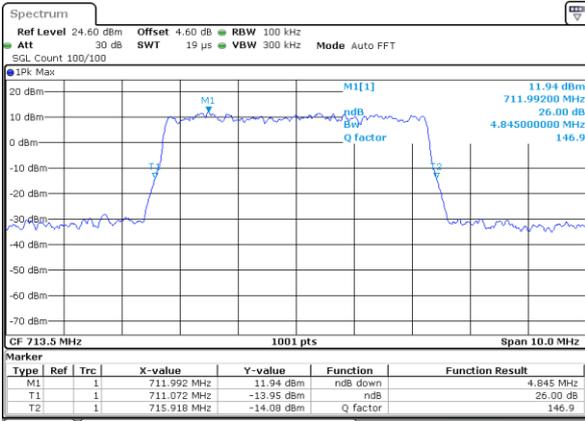
Date: 9 NOV 2020 11:16:27

Middle Channel / 10MHz / 64QAM



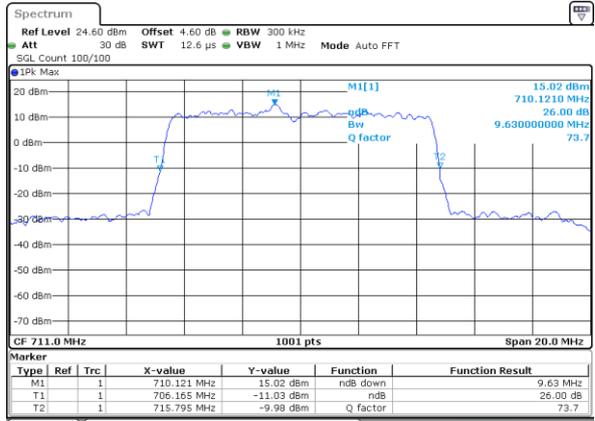
Date: 9 NOV 2020 11:28:48

Highest Channel / 5MHz / 64QAM



Date: 9 NOV 2020 11:16:47

Highest Channel / 10MHz / 64QAM

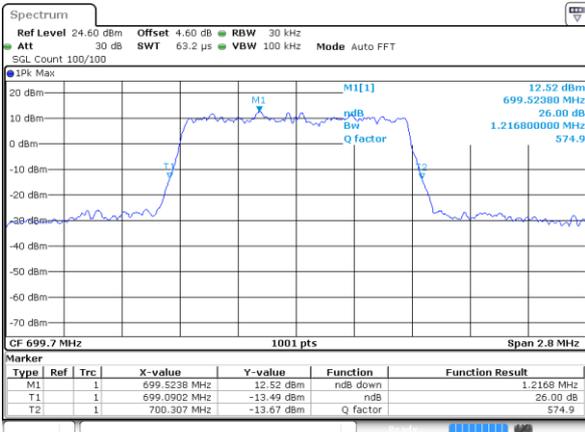


Date: 9 NOV 2020 11:29:08



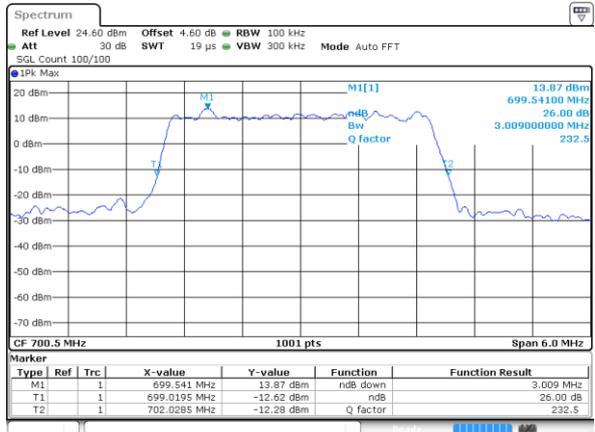
LTE Band 12

Lowest Channel / 1.4MHz / 256QAM



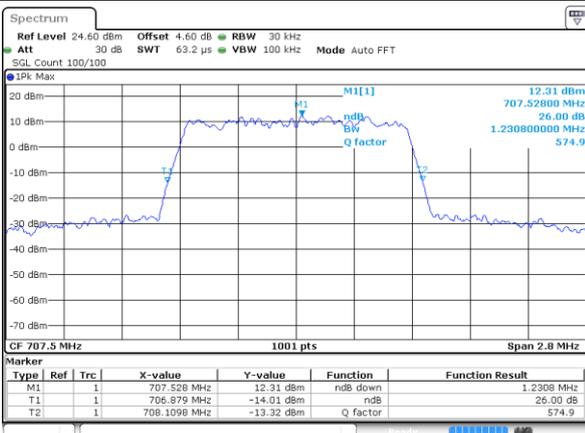
Date: 16 NOV 2020 18:10:15

Lowest Channel / 3MHz / 256QAM



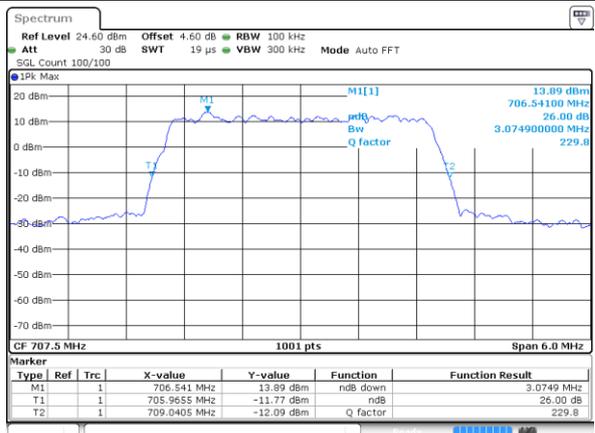
Date: 16 NOV 2020 18:59:13

Middle Channel / 1.4MHz / 256QAM



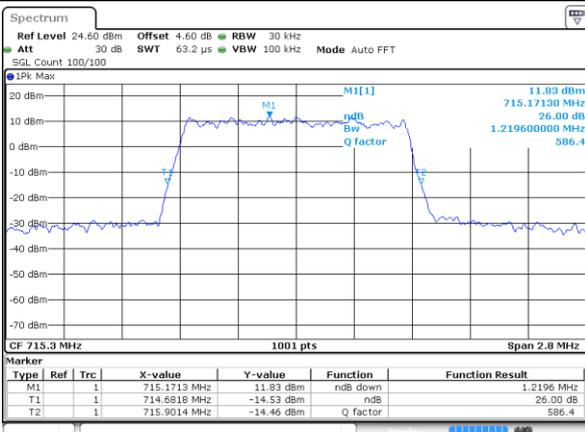
Date: 16 NOV 2020 18:14:21

Middle Channel / 3MHz / 256QAM



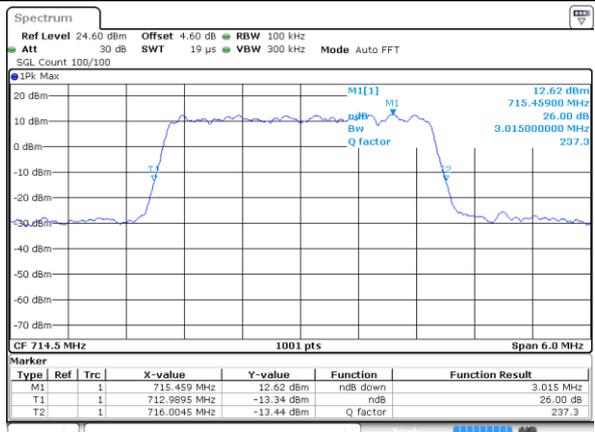
Date: 16 NOV 2020 19:05:39

Highest Channel / 1.4MHz / 256QAM



Date: 16 NOV 2020 18:15:17

Highest Channel / 3MHz / 256QAM

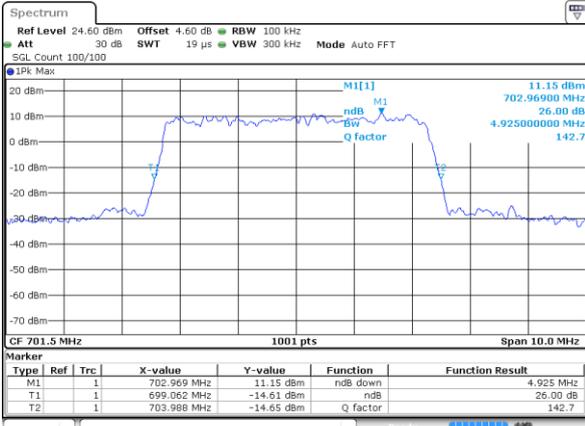


Date: 16 NOV 2020 19:07:03



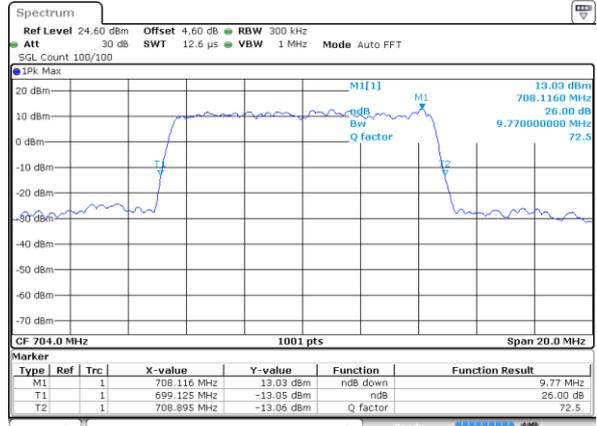
LTE Band 12

Lowest Channel / 5MHz / 256QAM



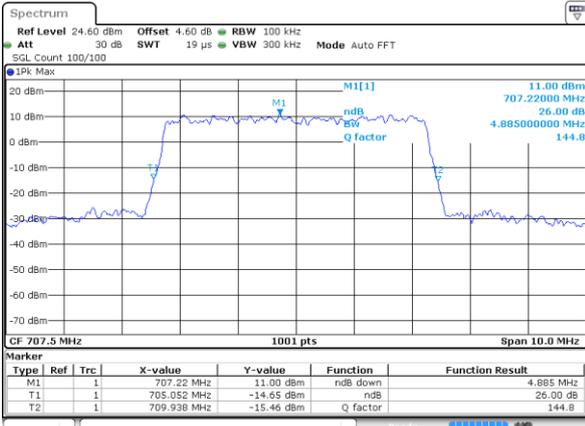
Date: 16 NOV 2020 19:10:58

Lowest Channel / 10MHz / 256QAM



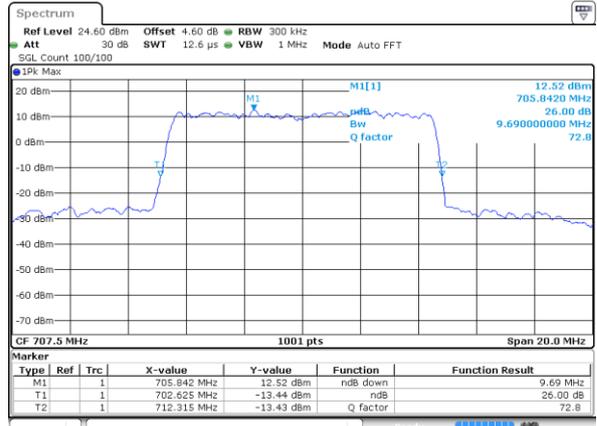
Date: 16 NOV 2020 19:19:46

Middle Channel / 5MHz / 256QAM



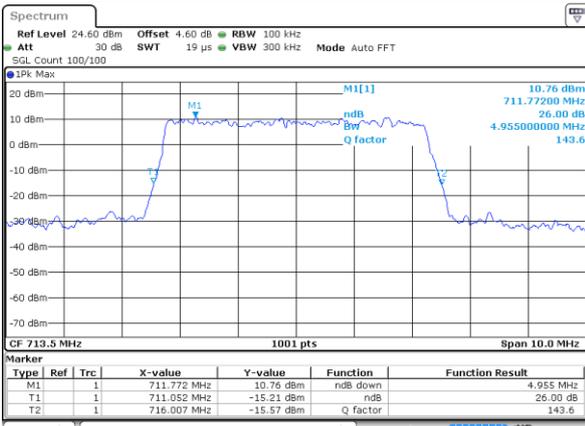
Date: 16 NOV 2020 19:14:51

Middle Channel / 10MHz / 256QAM



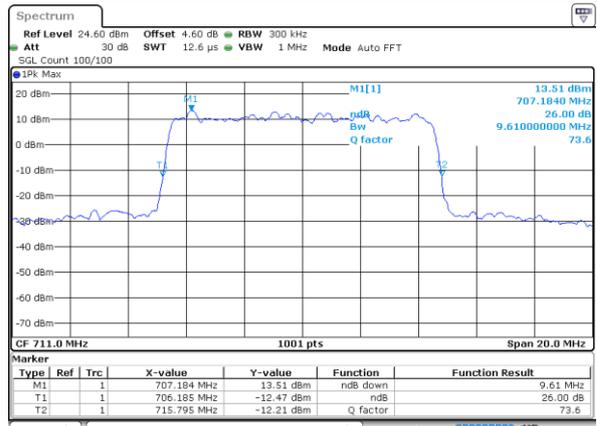
Date: 16 NOV 2020 19:27:11

Highest Channel / 5MHz / 256QAM



Date: 16 NOV 2020 19:15:43

Highest Channel / 10MHz / 256QAM



Date: 16 NOV 2020 19:28:26



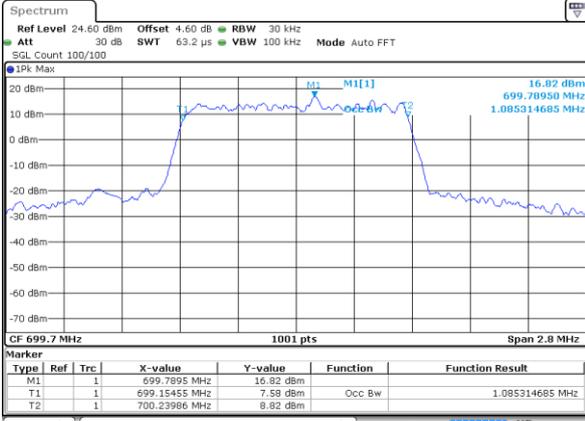
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Lowest CH	1.09	1.09	2.73	2.70	4.48	4.50	8.97	8.99	-	-	-	-
Middle CH	1.09	1.09	2.70	2.73	4.51	4.50	9.03	9.01	-	-	-	-
Highest CH	1.09	1.10	2.71	2.72	4.49	4.49	9.03	8.99	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM				
Lowest CH	1.09	1.09	2.72	2.73	4.50	4.50	8.99	9.03	-	-	-	-
Middle CH	1.10	1.08	2.73	2.74	4.48	4.48	8.97	8.97	-	-	-	-
Highest CH	1.09	1.08	2.72	2.73	4.51	4.49	9.01	9.05	-	-	-	-



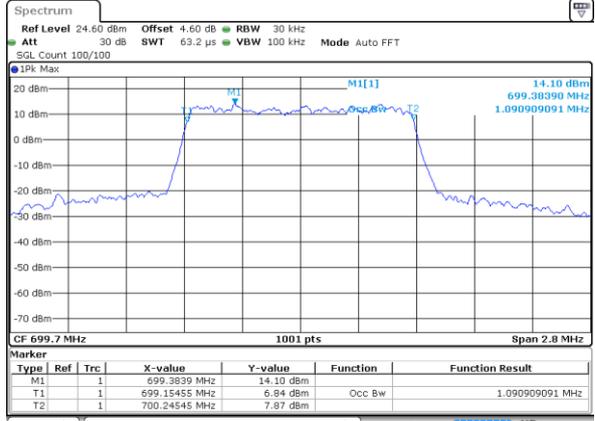
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



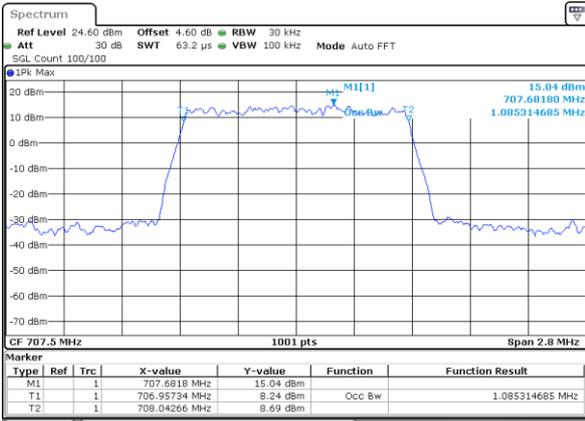
Date: 9 NOV 2020 09:36:04

Lowest Channel / 1.4MHz / 16QAM



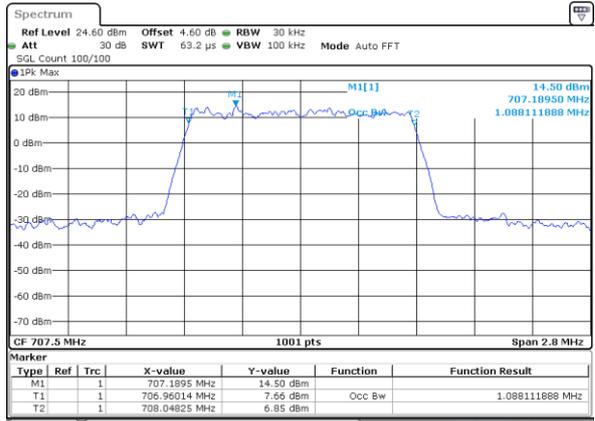
Date: 9 NOV 2020 09:36:14

Middle Channel / 1.4MHz / QPSK



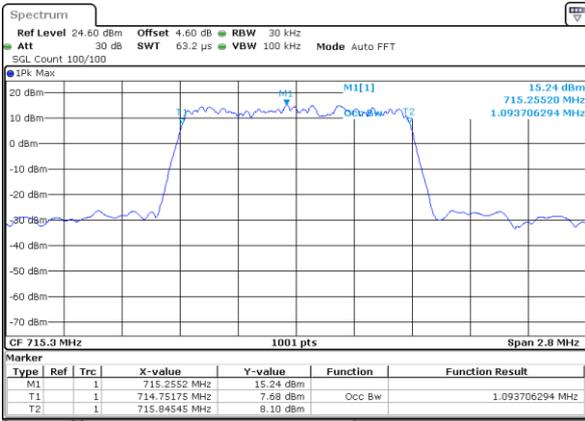
Date: 9 NOV 2020 09:36:34

Middle Channel / 1.4MHz / 16QAM



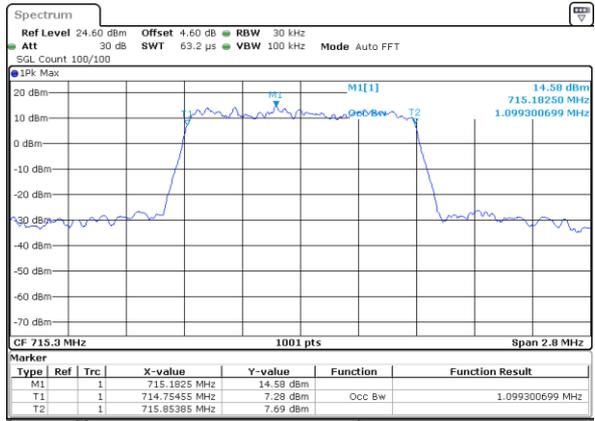
Date: 9 NOV 2020 09:36:24

Highest Channel / 1.4MHz / QPSK



Date: 9 NOV 2020 09:36:44

Highest Channel / 1.4MHz / 16QAM

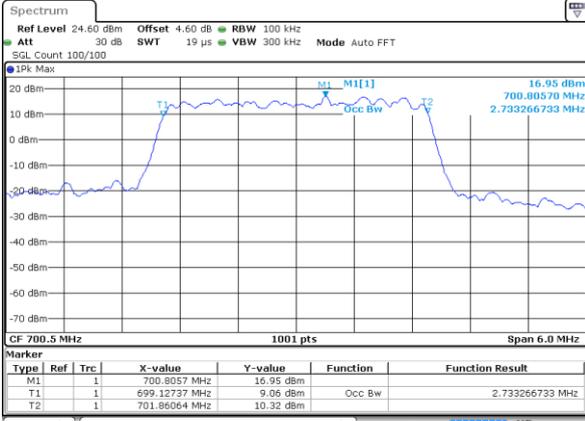


Date: 9 NOV 2020 09:36:54



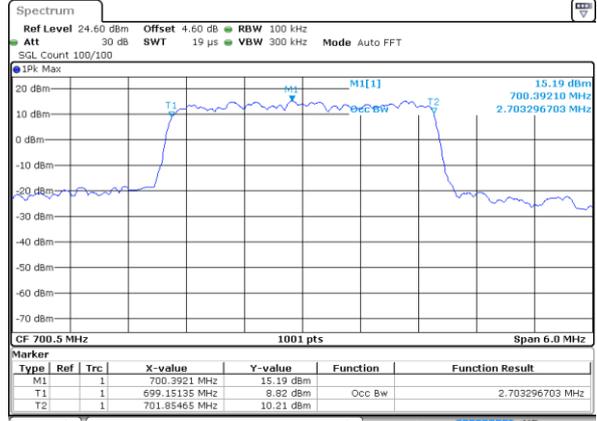
LTE Band 12

Lowest Channel / 3MHz / QPSK



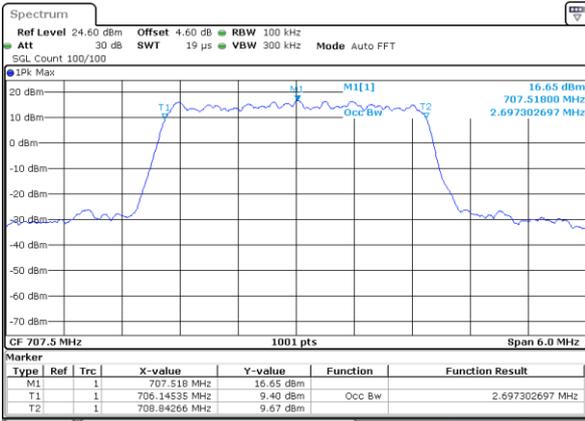
Date: 9 NOV 2020 09:53:58

Lowest Channel / 3MHz / 16QAM



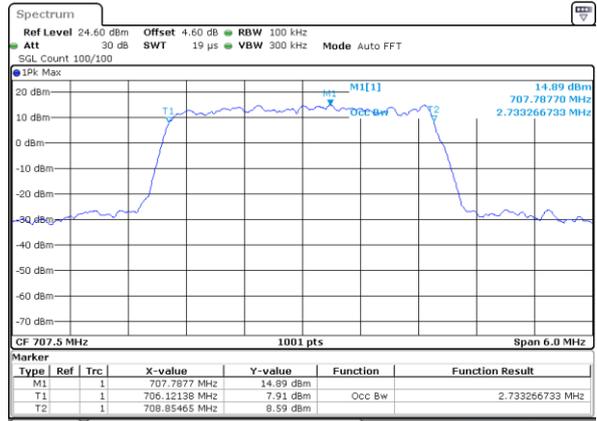
Date: 9 NOV 2020 09:54:08

Middle Channel / 3MHz / QPSK



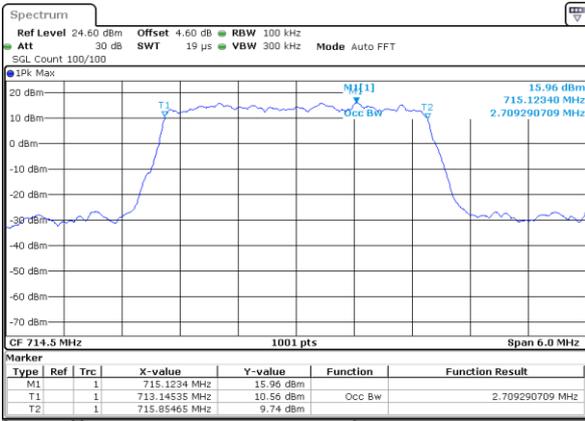
Date: 9 NOV 2020 09:54:28

Middle Channel / 3MHz / 16QAM



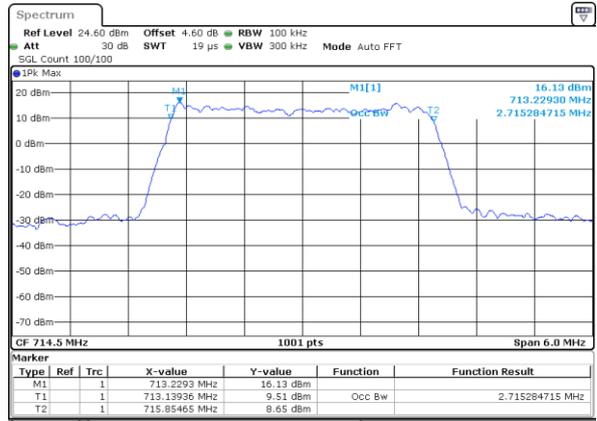
Date: 9 NOV 2020 09:54:18

Highest Channel / 3MHz / QPSK



Date: 9 NOV 2020 09:54:38

Highest Channel / 3MHz / 16QAM

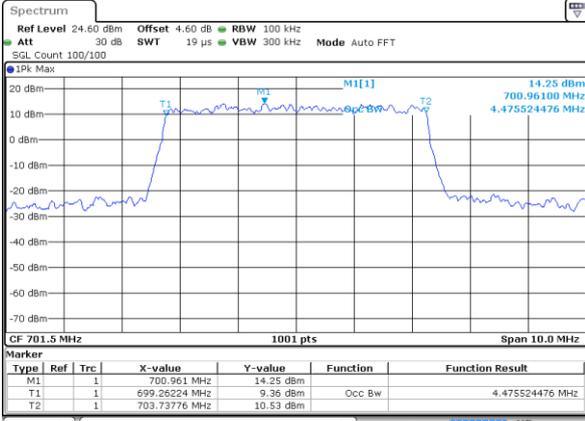


Date: 9 NOV 2020 09:54:48



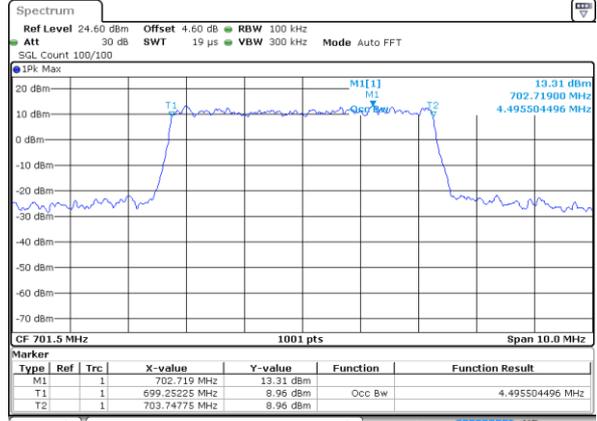
LTE Band 12

Lowest Channel / 5MHz / QPSK



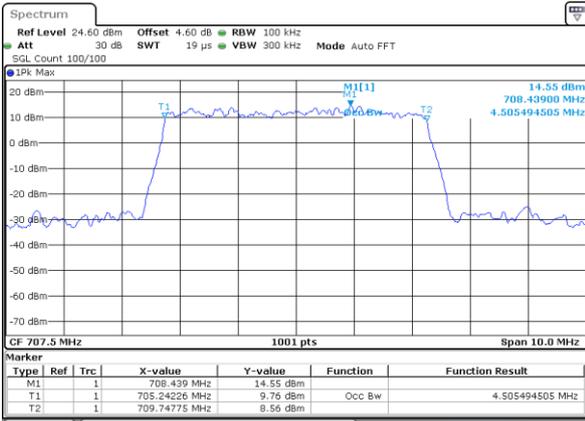
Date: 9 NOV 2020 10:11:24

Lowest Channel / 5MHz / 16QAM



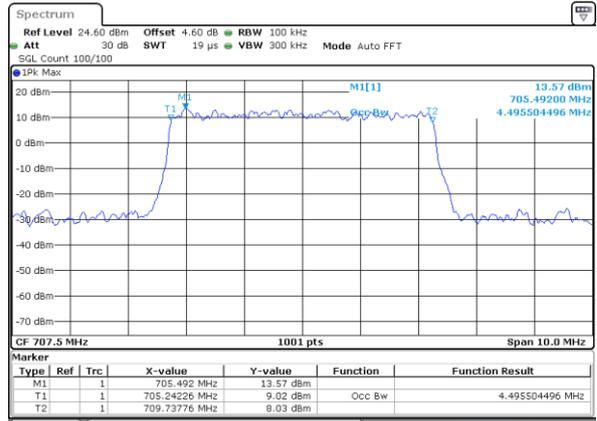
Date: 9 NOV 2020 10:11:33

Middle Channel / 5MHz / QPSK



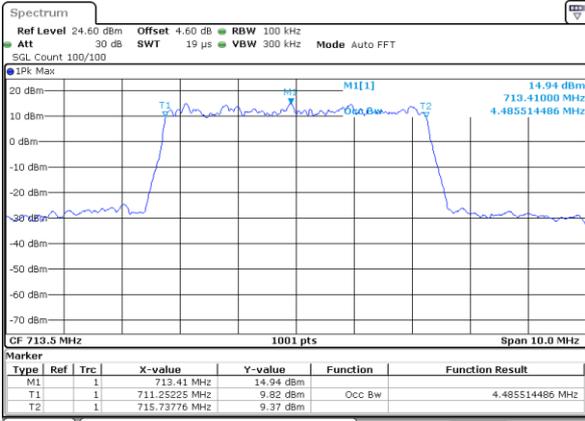
Date: 9 NOV 2020 10:11:53

Middle Channel / 5MHz / 16QAM



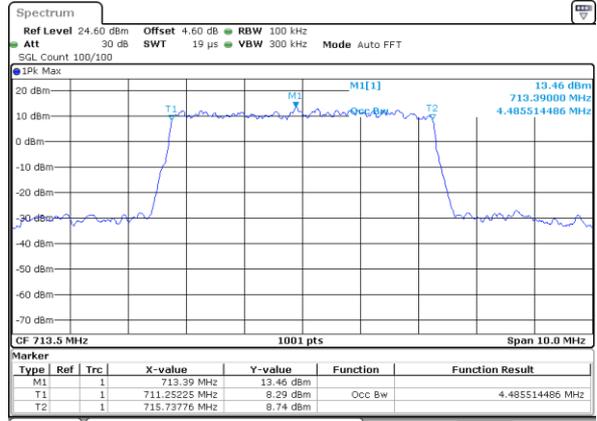
Date: 9 NOV 2020 10:11:43

Highest Channel / 5MHz / QPSK



Date: 9 NOV 2020 10:12:03

Highest Channel / 5MHz / 16QAM

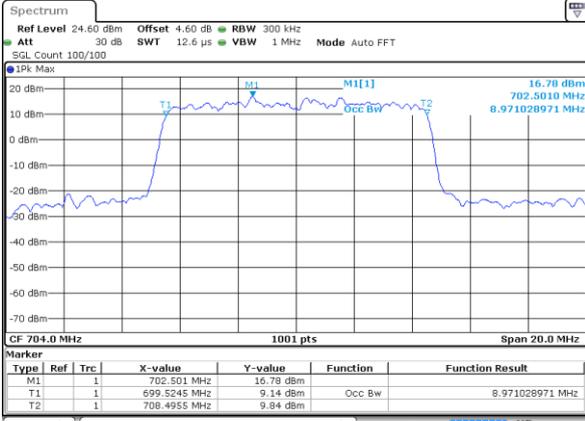


Date: 9 NOV 2020 10:12:13



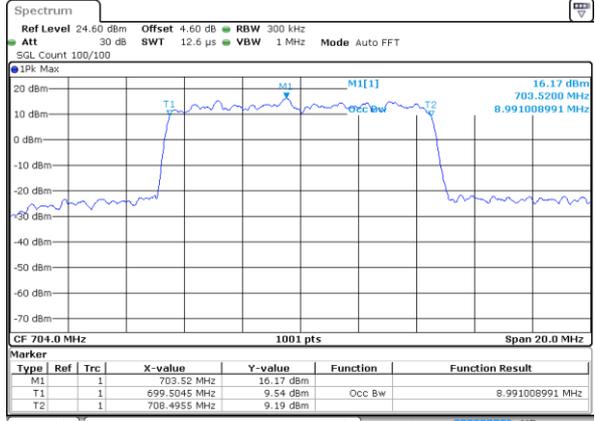
LTE Band 12

Lowest Channel / 10MHz / QPSK



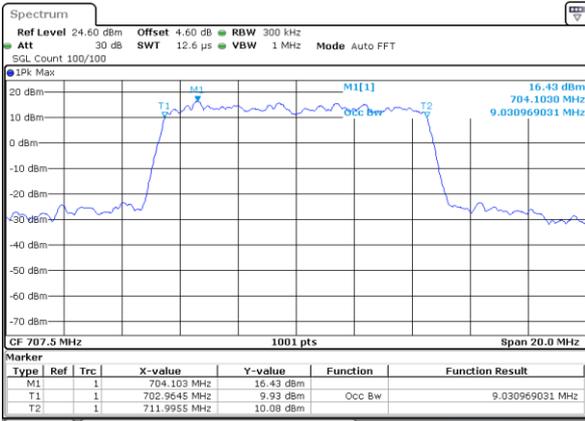
Date: 9 NOV 2020 10:28:49

Lowest Channel / 10MHz / 16QAM



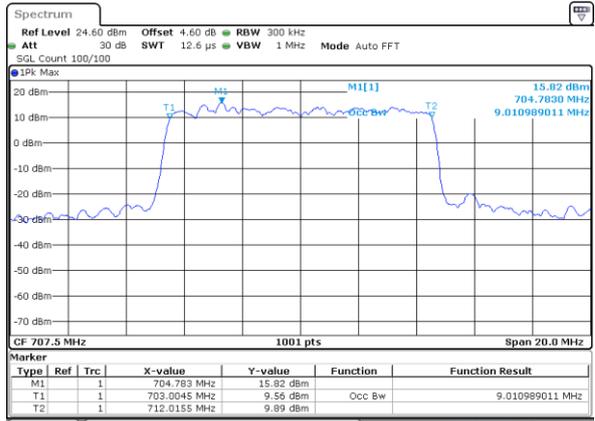
Date: 9 NOV 2020 10:28:59

Middle Channel / 10MHz / QPSK



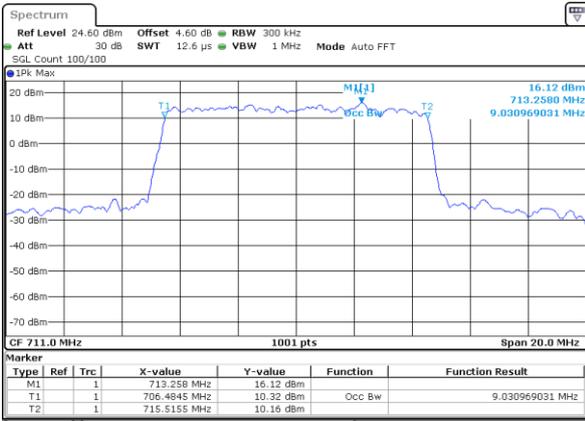
Date: 9 NOV 2020 10:29:19

Middle Channel / 10MHz / 16QAM



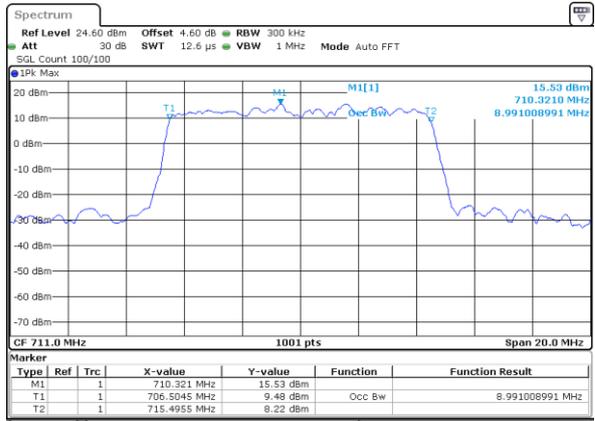
Date: 9 NOV 2020 10:29:09

Highest Channel / 10MHz / QPSK



Date: 9 NOV 2020 10:29:29

Highest Channel / 10MHz / 16QAM

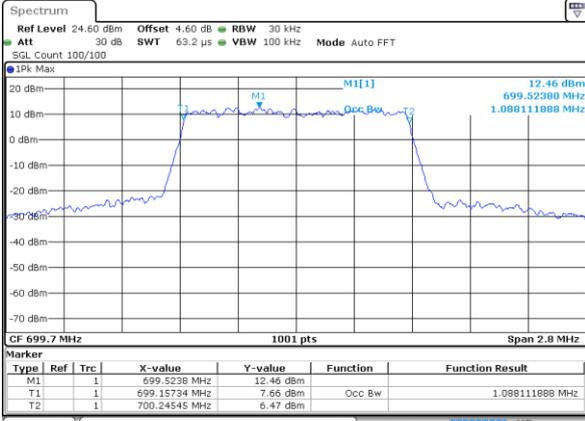


Date: 9 NOV 2020 10:29:39



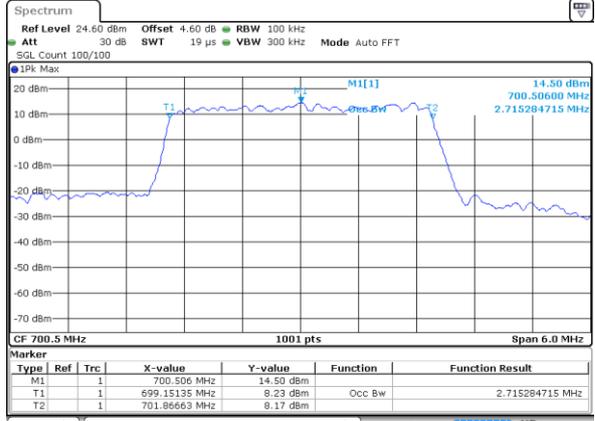
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



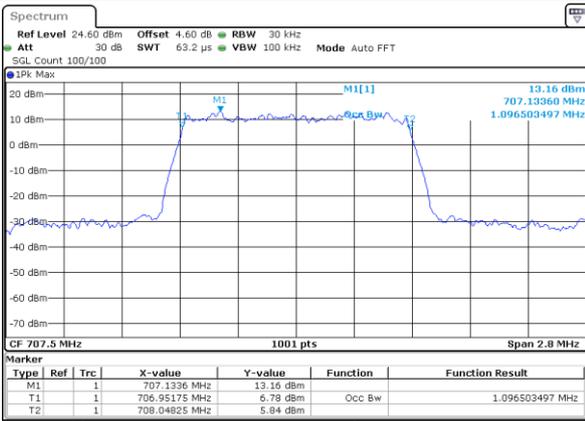
Date: 9 NOV 2020 10:54:05

Lowest Channel / 3MHz / 64QAM



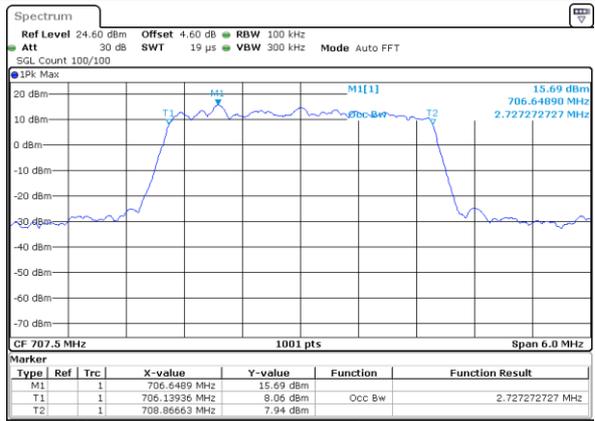
Date: 9 NOV 2020 11:07:23

Middle Channel / 1.4MHz / 64QAM



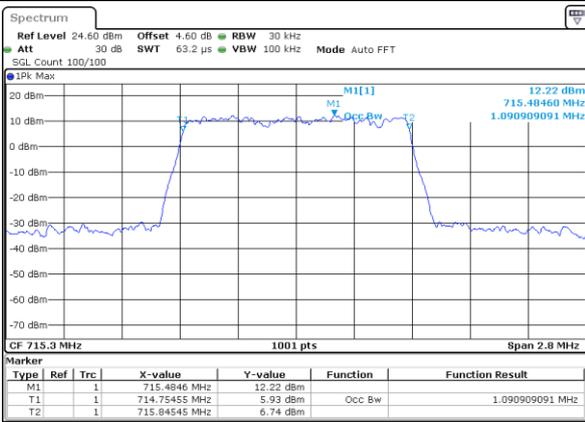
Date: 9 NOV 2020 10:54:25

Middle Channel / 3MHz / 64QAM



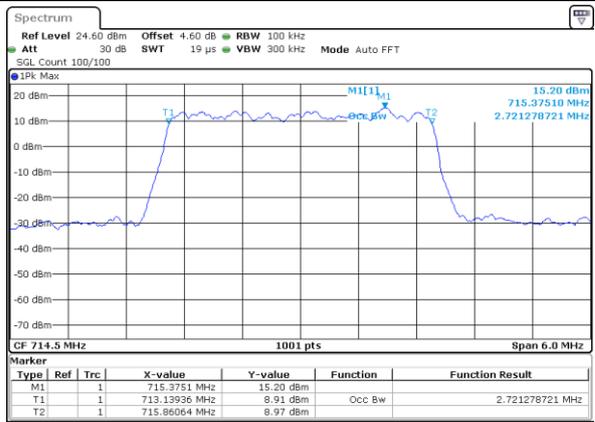
Date: 9 NOV 2020 11:07:43

Highest Channel / 1.4MHz / 64QAM



Date: 9 NOV 2020 10:54:45

Highest Channel / 3MHz / 64QAM

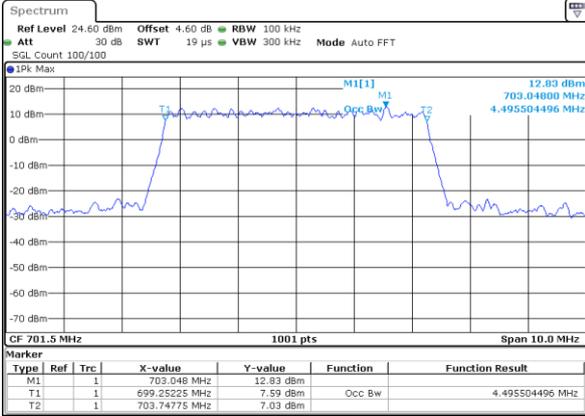


Date: 9 NOV 2020 11:08:03



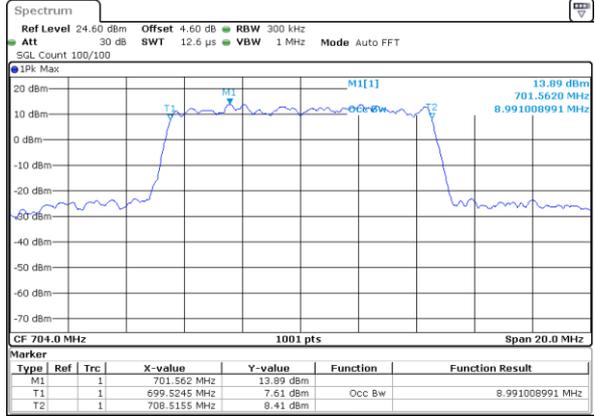
LTE Band 12

Lowest Channel / 5MHz / 64QAM



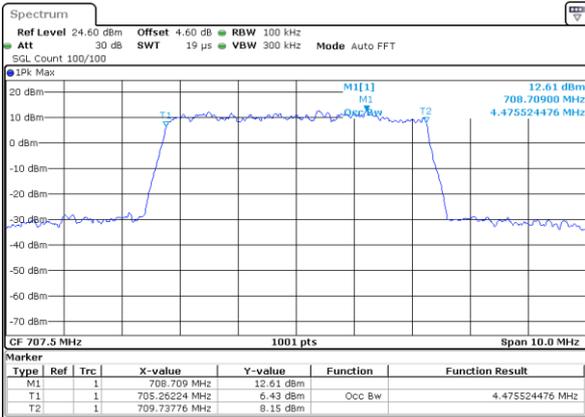
Date: 9 NOV 2020 11:15:58

Lowest Channel / 10MHz / 64QAM



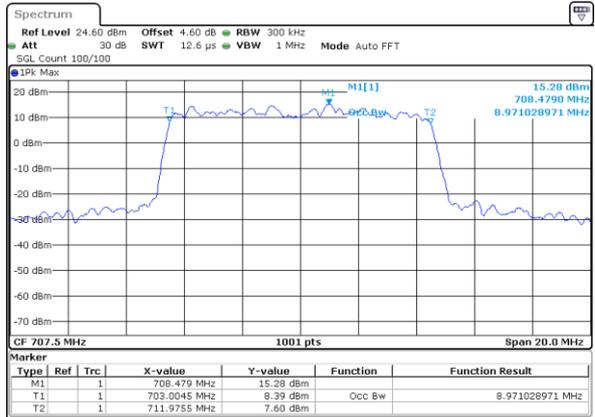
Date: 9 NOV 2020 11:28:18

Middle Channel / 5MHz / 64QAM



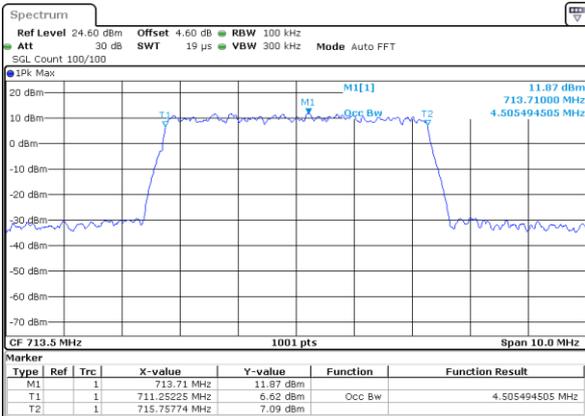
Date: 9 NOV 2020 11:16:17

Middle Channel / 10MHz / 64QAM



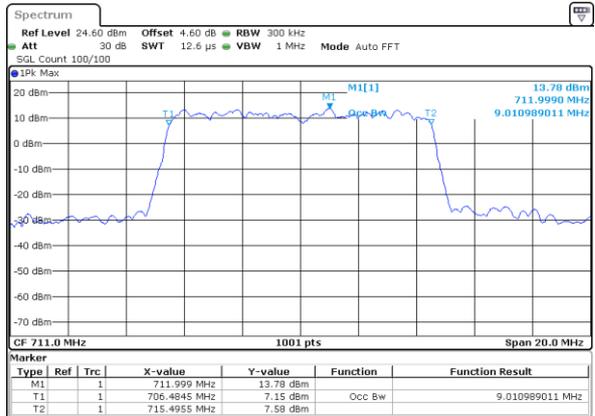
Date: 9 NOV 2020 11:28:38

Highest Channel / 5MHz / 64QAM



Date: 9 NOV 2020 11:16:37

Highest Channel / 10MHz / 64QAM

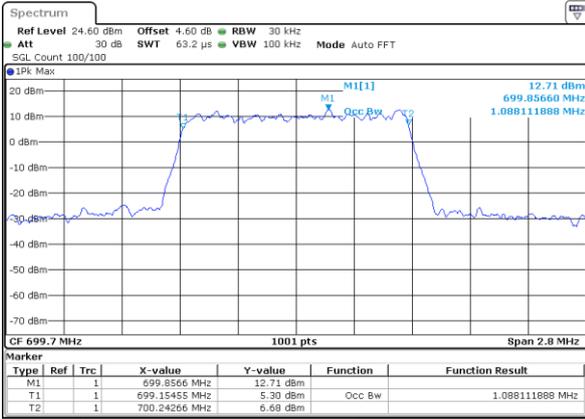


Date: 9 NOV 2020 11:28:58

LTE Band 12

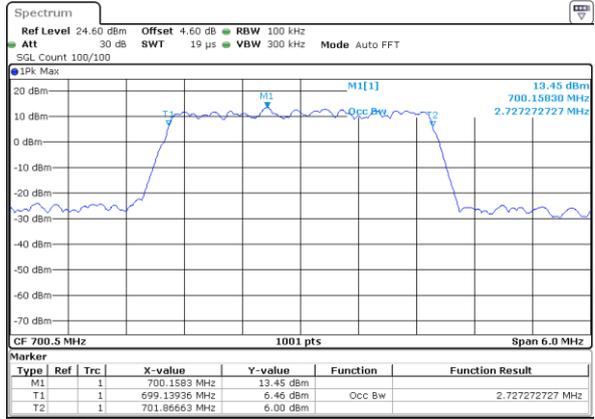


Lowest Channel / 1.4MHz / 256QAM



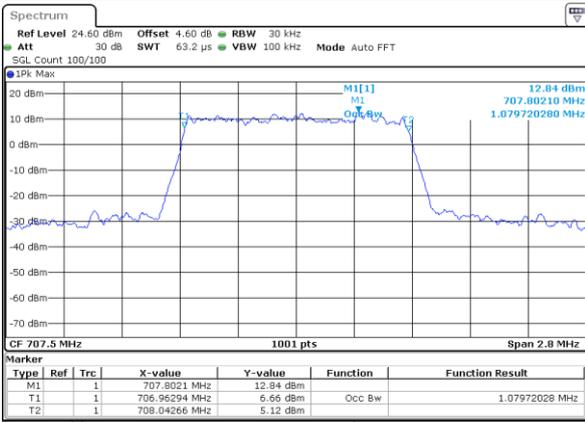
Date: 16 NOV 2020 18:09:59

Lowest Channel / 3MHz / 256QAM



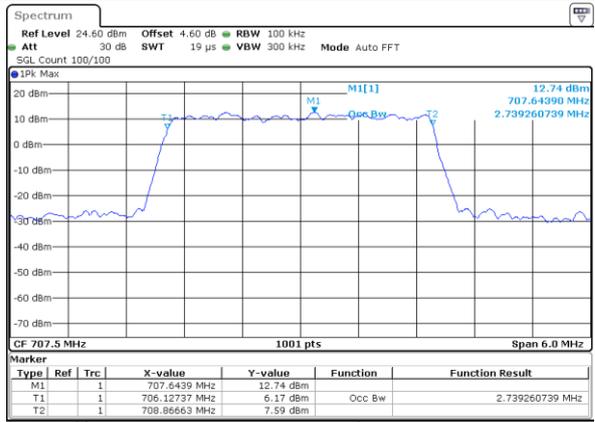
Date: 16 NOV 2020 18:59:06

Middle Channel / 1.4MHz / 256QAM



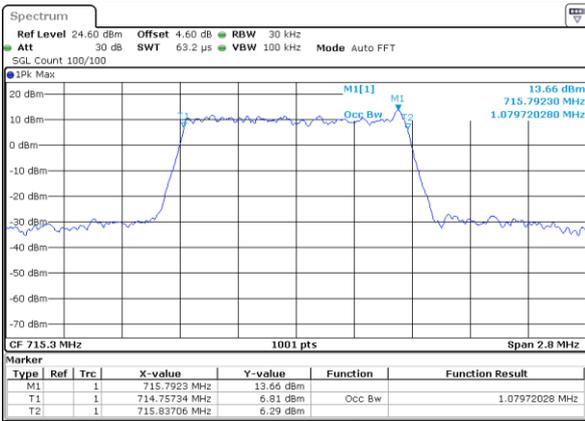
Date: 16 NOV 2020 18:14:14

Middle Channel / 3MHz / 256QAM



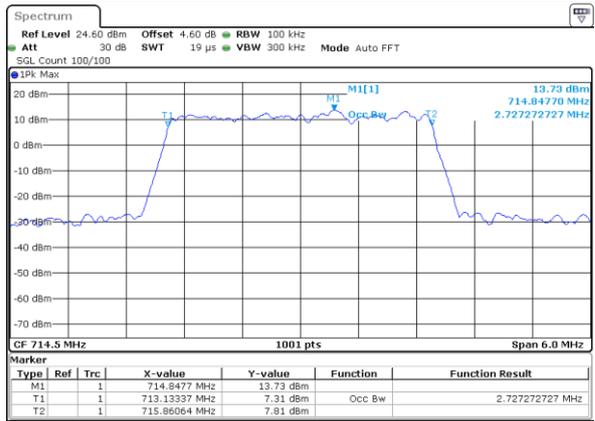
Date: 16 NOV 2020 19:05:32

Highest Channel / 1.4MHz / 256QAM



Date: 16 NOV 2020 18:15:12

Highest Channel / 3MHz / 256QAM



Date: 16 NOV 2020 19:06:50