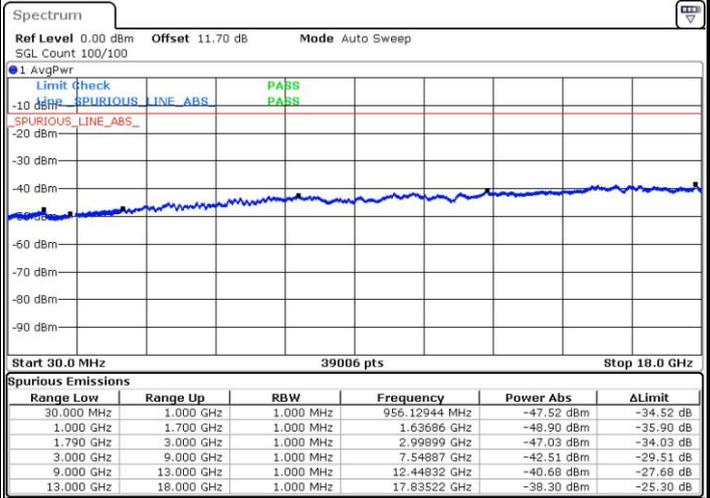
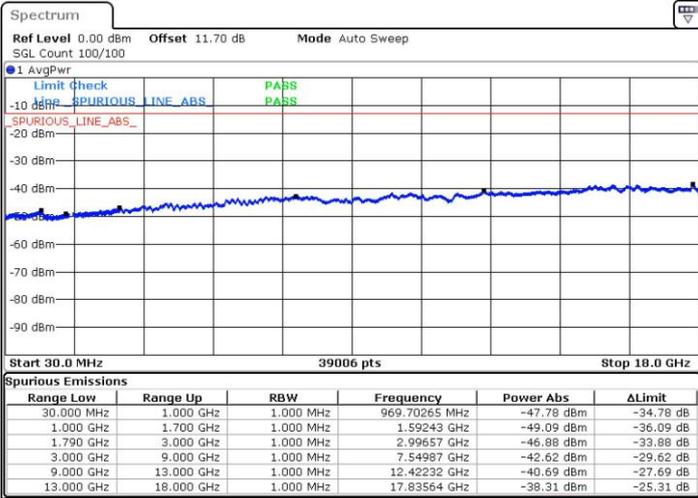




LTE Band 66 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

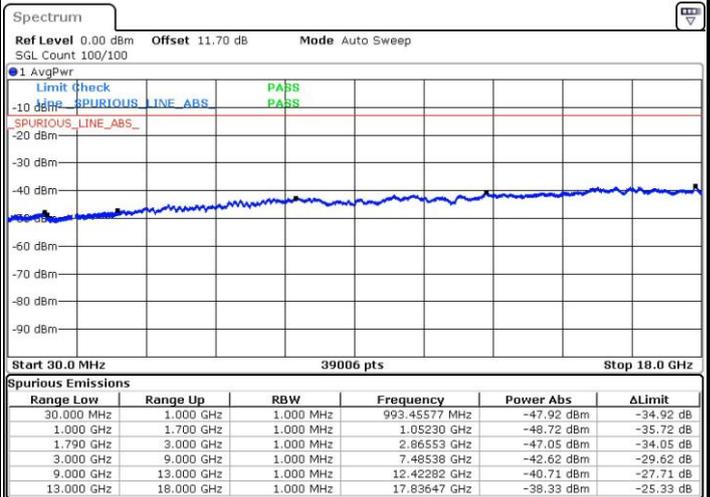
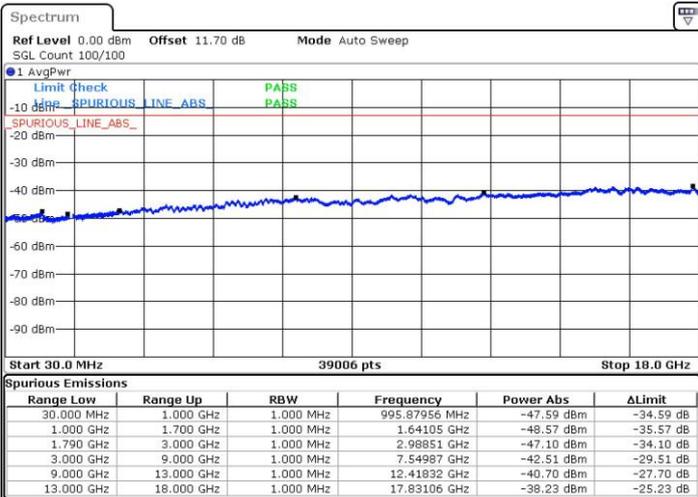


Date: 7.JAN 2019 22:51:06

Date: 7.JAN 2019 22:52:08

Highest Channel / QPSK

Highest Channel / 16QAM



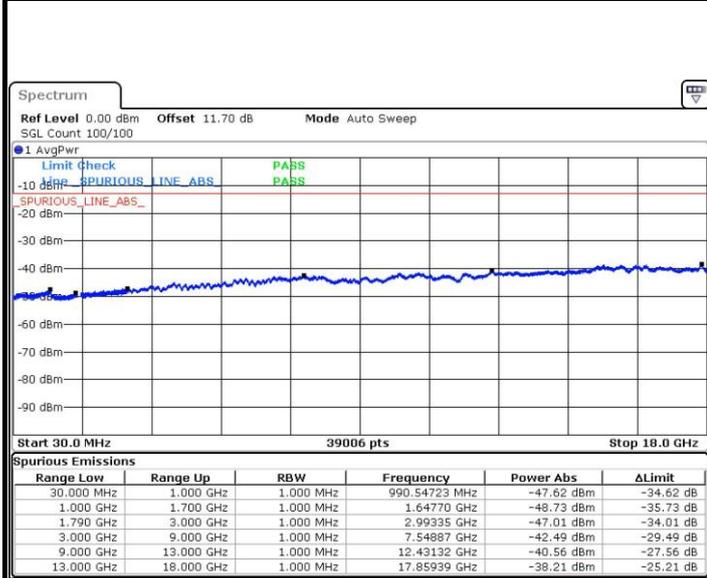
Date: 7.JAN 2019 22:58:04

Date: 7.JAN 2019 22:59:07



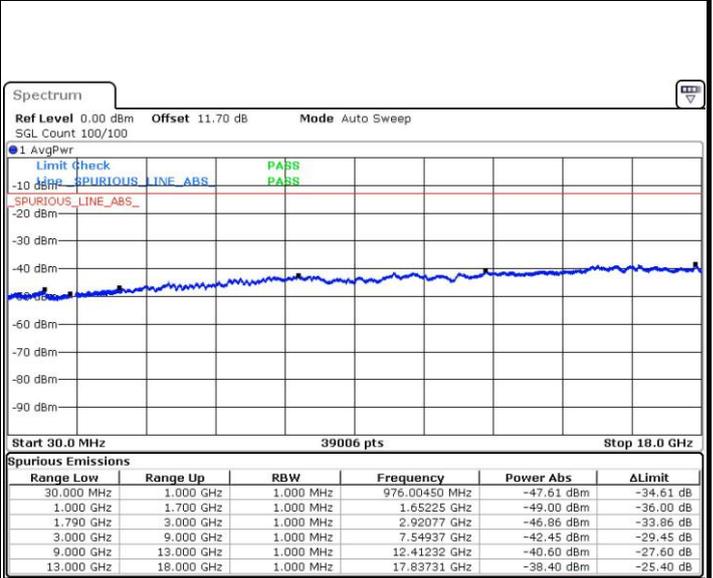
LTE Band 66 / 1.4MHz

Lowest Channel / 64QAM



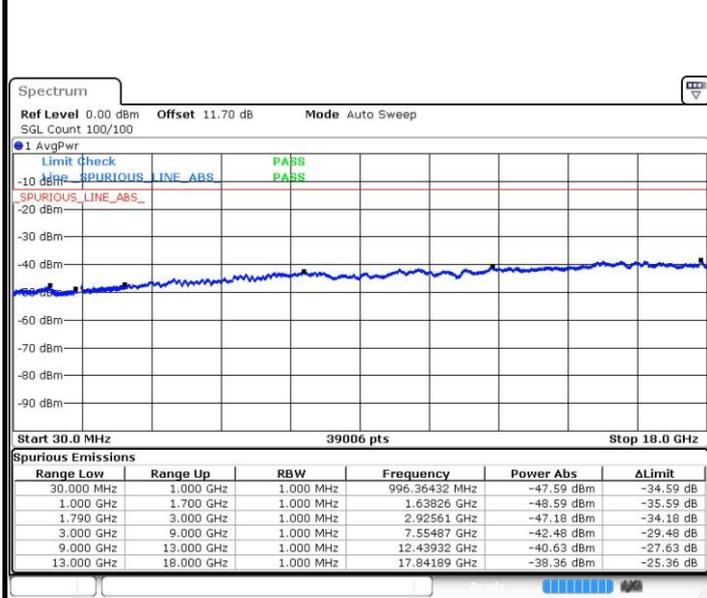
Date: 8 JAN 2019 00:18:43

Middle Channel / 64QAM



Date: 8 JAN 2019 00:20:07

Highest Channel / 64QAM



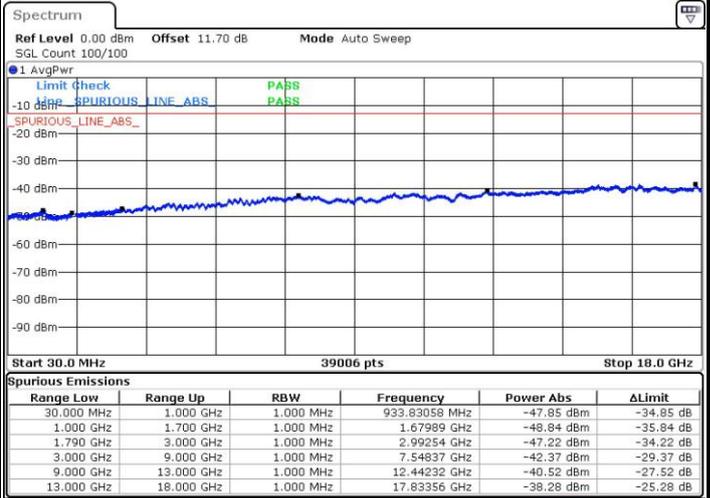
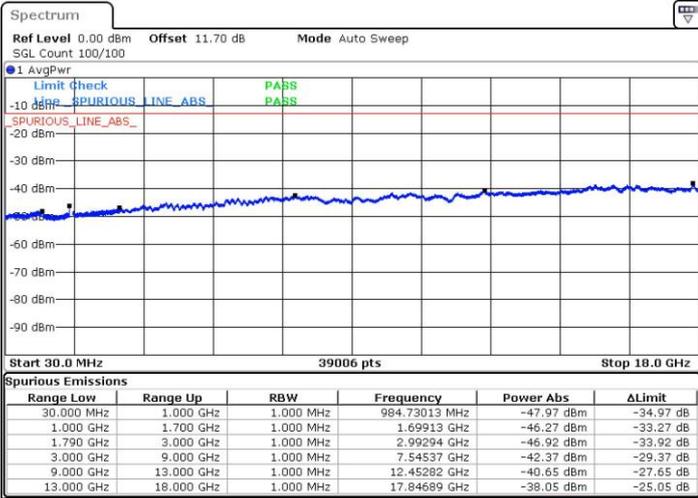
Date: 8 JAN 2019 00:24:52



LTE Band 66 / 3MHz

Lowest Channel / 64QAM

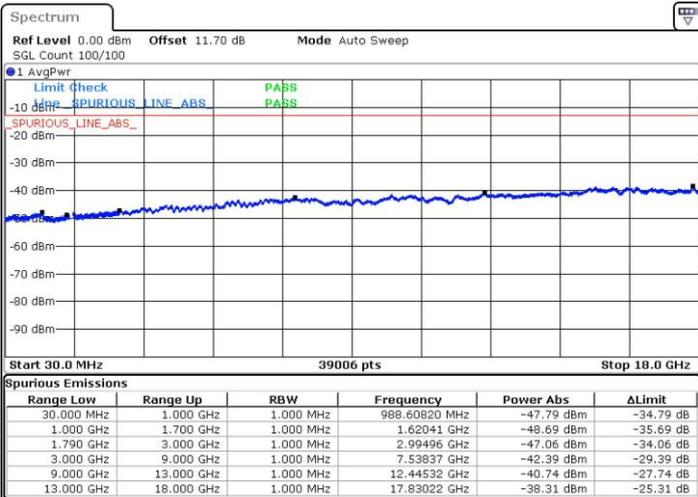
Middle Channel / 64QAM



Date: 8 JAN 2019 00:46:48

Date: 8 JAN 2019 00:48:12

Highest Channel / 64QAM



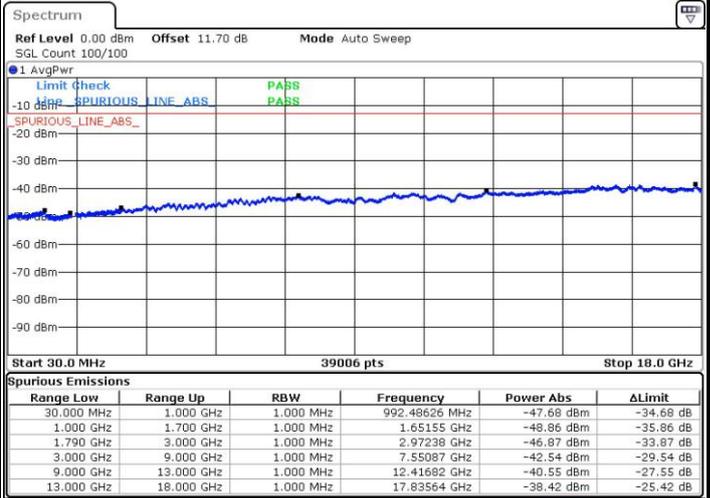
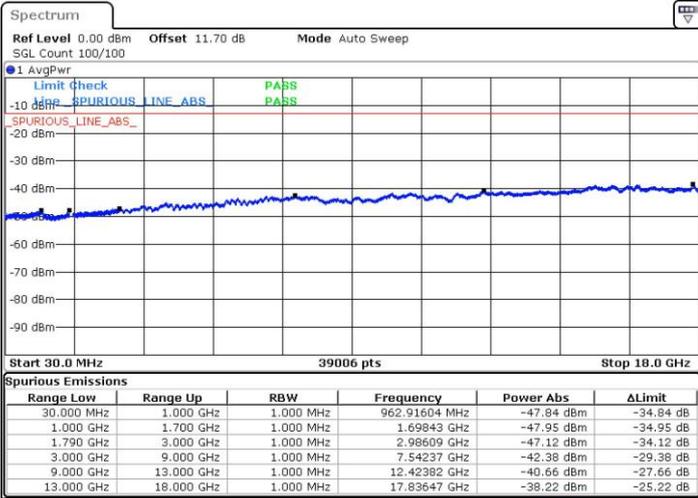
Date: 8 JAN 2019 00:51:37



LTE Band 66 / 5MHz

Lowest Channel / 64QAM

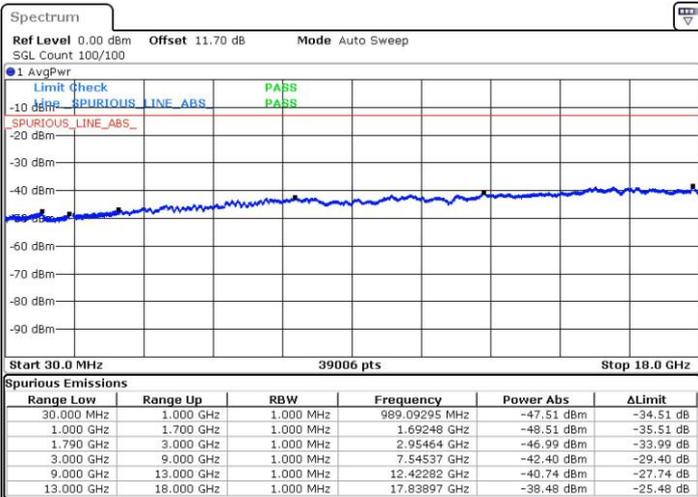
Middle Channel / 64QAM



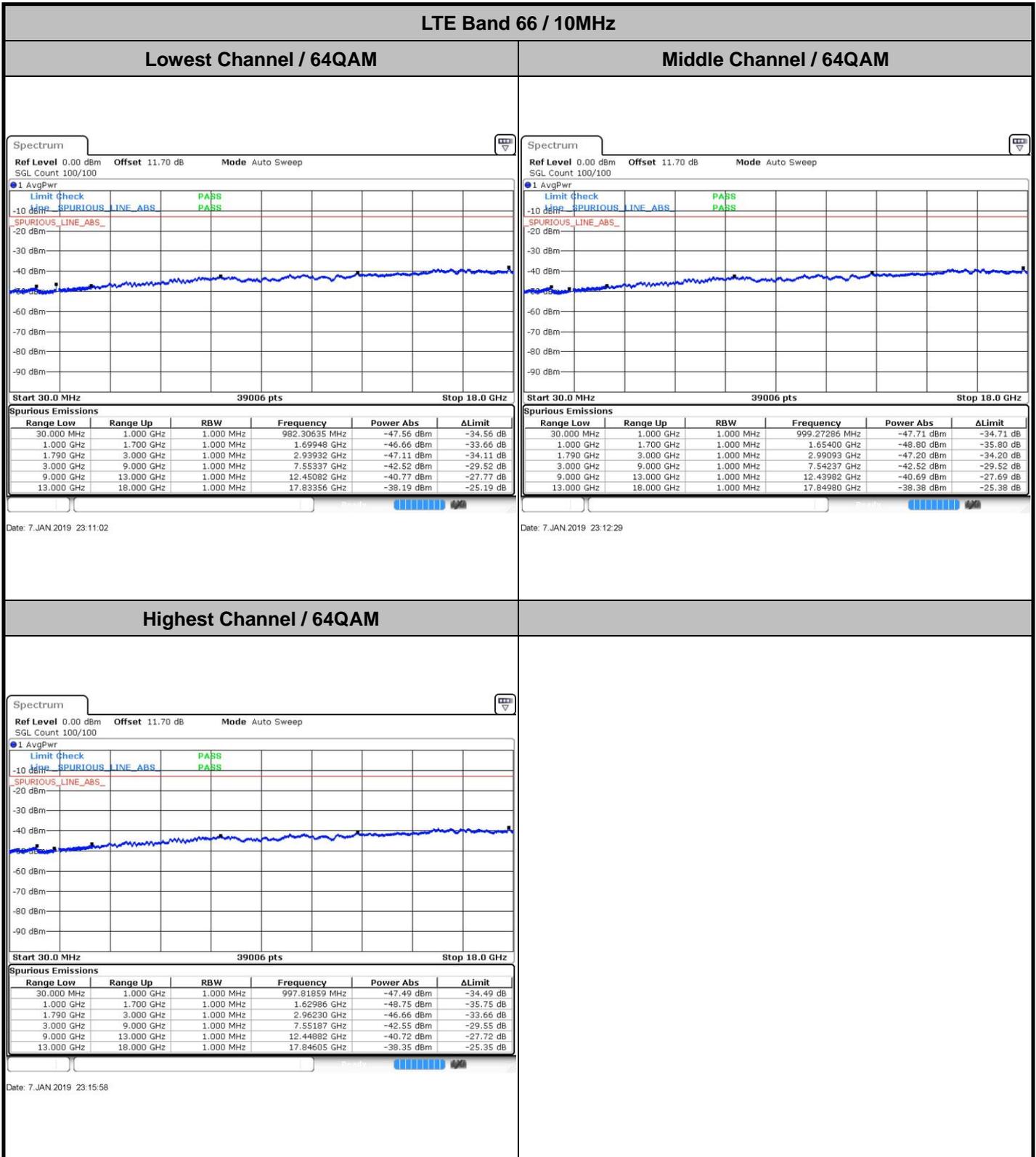
Date: 7.JAN 2019 23:02:36

Date: 7.JAN 2019 23:04:03

Highest Channel / 64QAM



Date: 7.JAN 2019 23:07:32

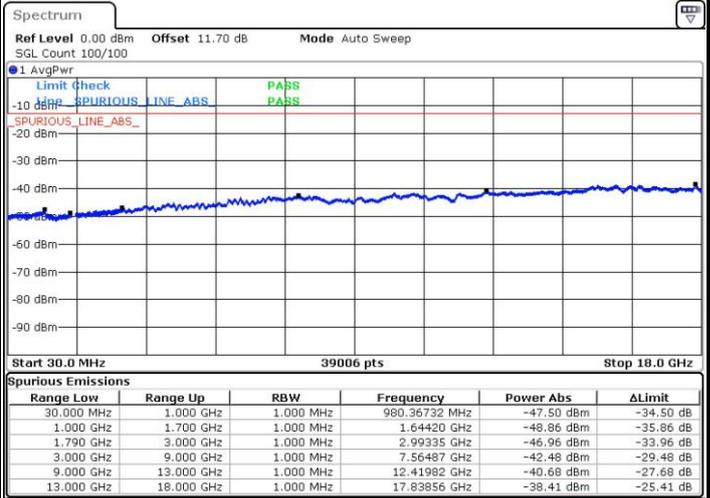
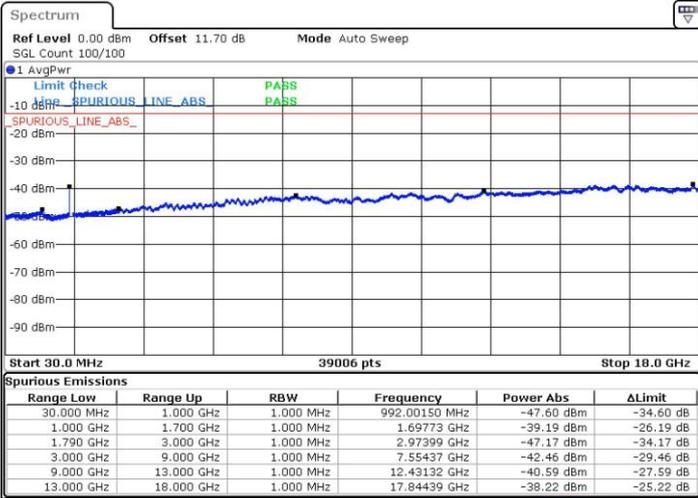




LTE Band 66 / 15MHz

Lowest Channel / 64QAM

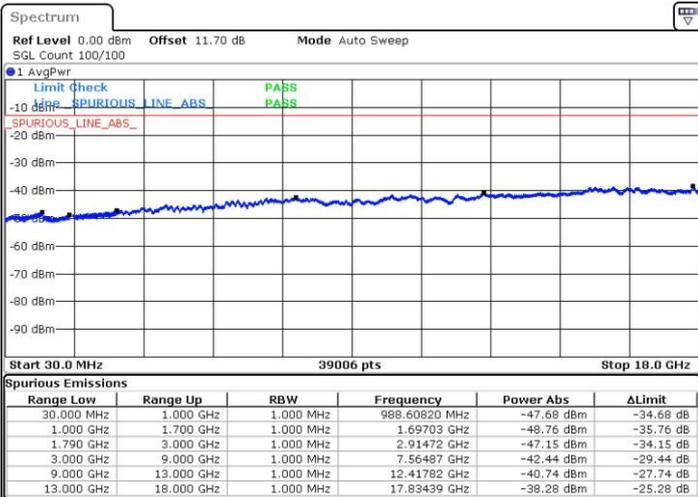
Middle Channel / 64QAM



Date: 7. JAN 2019 23:19:27

Date: 7. JAN 2019 23:20:54

Highest Channel / 64QAM



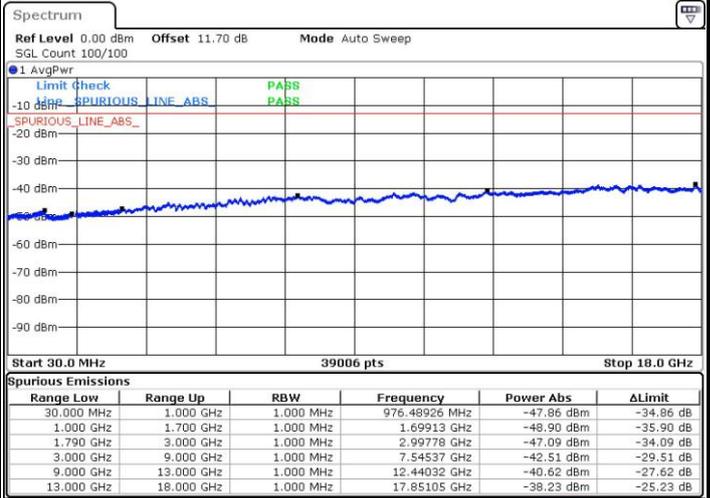
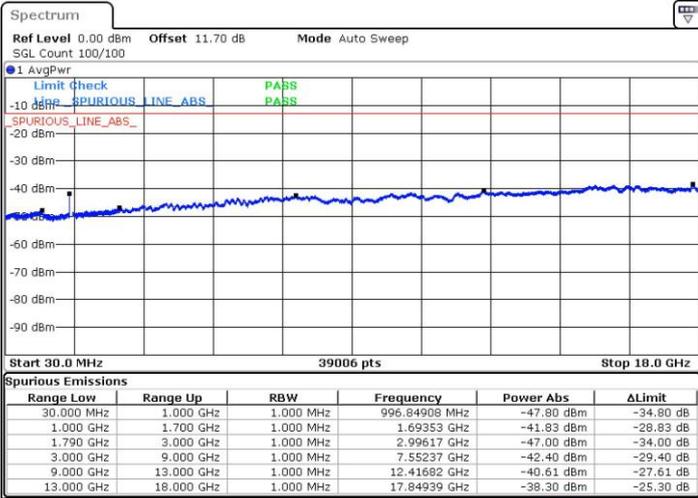
Date: 7. JAN 2019 23:24:23



LTE Band 66 / 20MHz

Lowest Channel / 64QAM

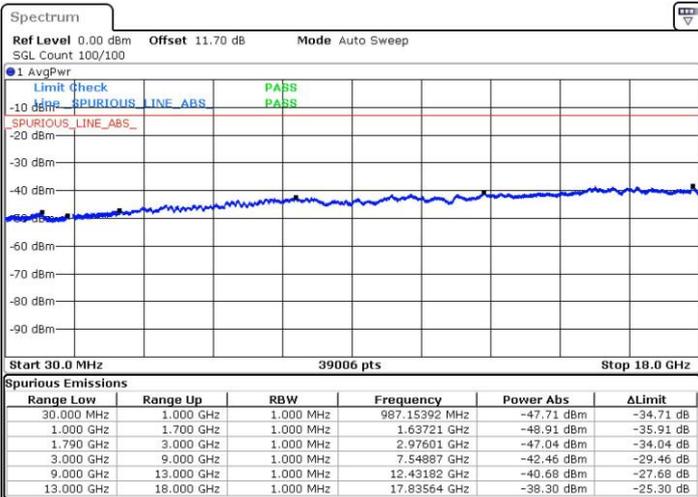
Middle Channel / 64QAM



Date: 7.JAN 2019 23:27:53

Date: 7.JAN 2019 23:29:19

Highest Channel / 64QAM



Date: 7.JAN 2019 23:32:48



Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0097	PASS
40	Normal Voltage	0.0095	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0087	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0095	
-20	Normal Voltage	0.0094	
-30	Normal Voltage	0.0097	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0100	

Note:

1. Normal Voltage =3.85 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 71

Peak-to-Average Ratio

Mode	LTE Band 71 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.51	4.52	3.97	5.62	PASS
Middle CH	3.48	4.43	4.09	5.48	
Highest CH	3.54	4.38	4.35	5.48	
Mode	LTE Band 71 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.39	6.23	-	-	PASS
Middle CH	5.57	6.12	-	-	
Highest CH	5.16	6.12	-	-	



LTE Band 71 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 8 JAN 2019 16:48:43

Lowest Channel / Full RB



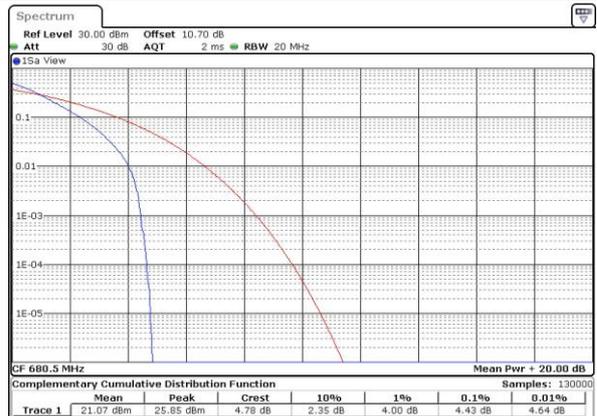
Date: 8 JAN 2019 16:49:00

Middle Channel / 1RB



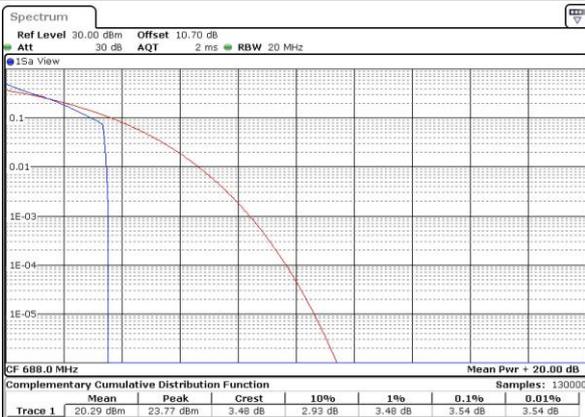
Date: 8 JAN 2019 16:49:13

Middle Channel / Full RB



Date: 8 JAN 2019 16:49:25

Highest Channel / 1RB



Date: 8 JAN 2019 16:49:36

Highest Channel / Full RB



Date: 8 JAN 2019 16:49:48



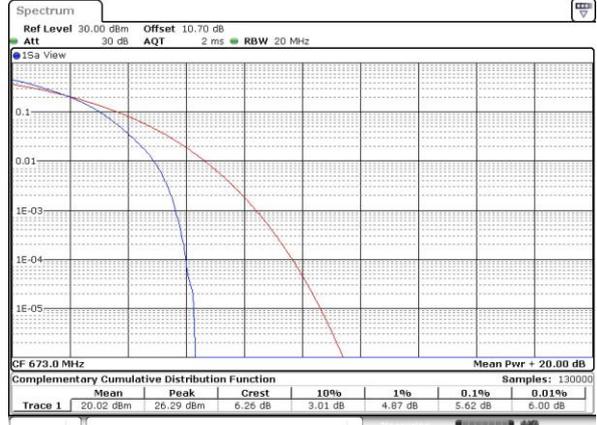
LTE Band 71 / 20MHz / 16QAM

Lowest Channel / 1RB



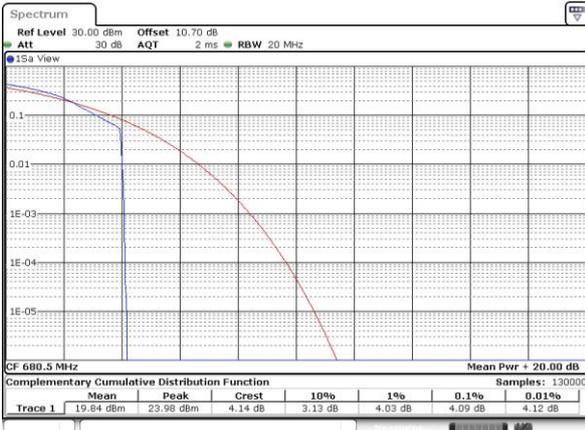
Date: 8 JAN 2019 16:47:02

Lowest Channel / Full RB



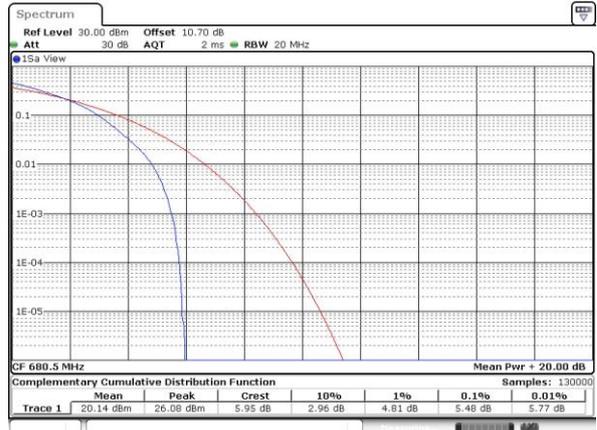
Date: 8 JAN 2019 16:47:17

Middle Channel / 1RB



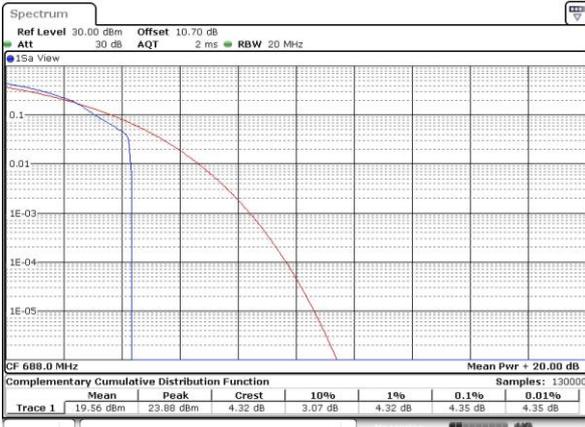
Date: 8 JAN 2019 16:47:32

Middle Channel / Full RB



Date: 8 JAN 2019 16:47:43

Highest Channel / 1RB



Date: 8 JAN 2019 16:47:58

Highest Channel / Full RB

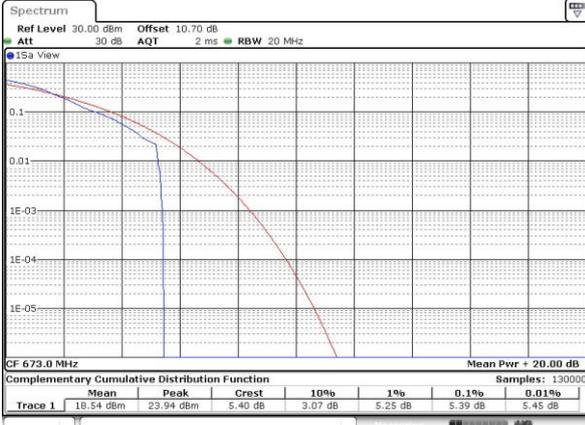


Date: 8 JAN 2019 16:48:15



LTE Band 71 / 20MHz / 64QAM

Lowest Channel / 1RB



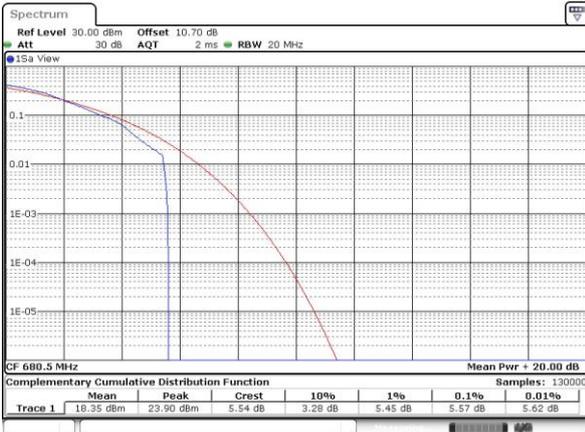
Date: 8 JAN 2019 16:49:59

Lowest Channel / Full RB



Date: 8 JAN 2019 16:50:12

Middle Channel / 1RB



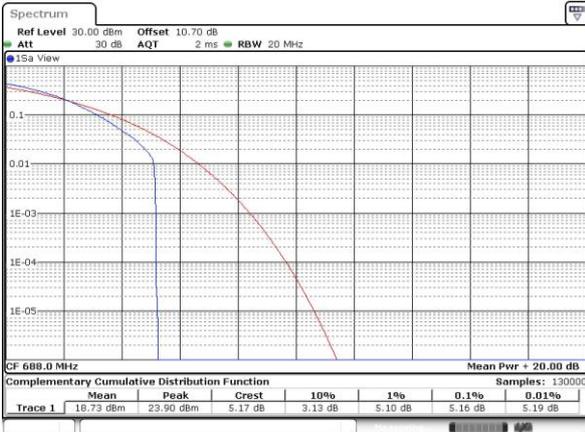
Date: 8 JAN 2019 16:50:23

Middle Channel / Full RB



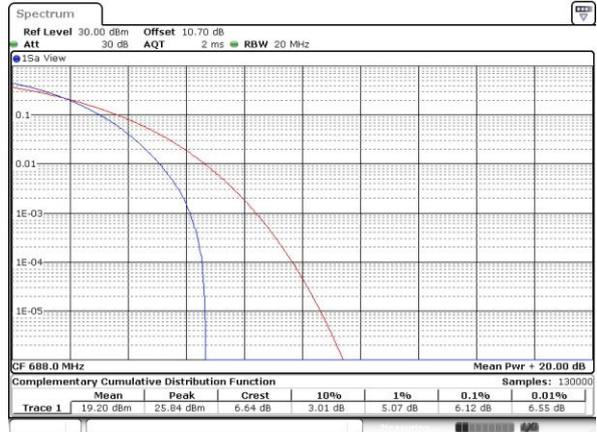
Date: 8 JAN 2019 16:50:34

Highest Channel / 1RB



Date: 8 JAN 2019 16:50:45

Highest Channel / Full RB



Date: 8 JAN 2019 16:51:02



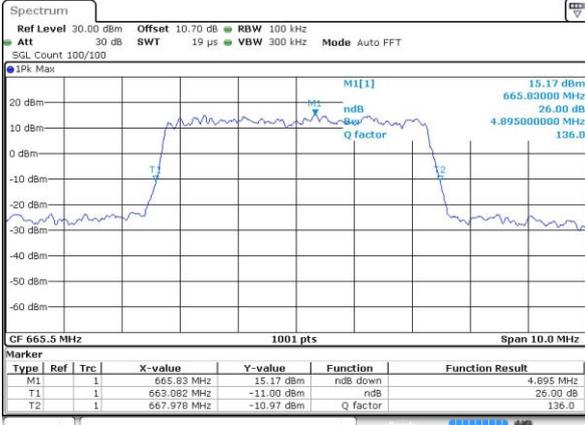
26dB Bandwidth

Mode	LTE Band 71 : 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	-	-	-	-	4.90	4.89	9.75	9.67	14.30	14.48	20.06	20.22
Middle CH	-	-	-	-	4.87	4.87	9.67	9.67	14.33	14.18	20.14	20.02
Highest CH	-	-	-	-	4.91	4.89	9.93	9.79	14.36	14.51	20.14	20.34
Mode	LTE Band 71 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.89	-	9.75	-	14.60	-	20.06	-
Middle CH	-	-	-	-	4.84	-	9.95	-	14.48	-	20.10	-
Highest CH	-	-	-	-	4.79	-	9.89	-	14.33	-	20.22	-



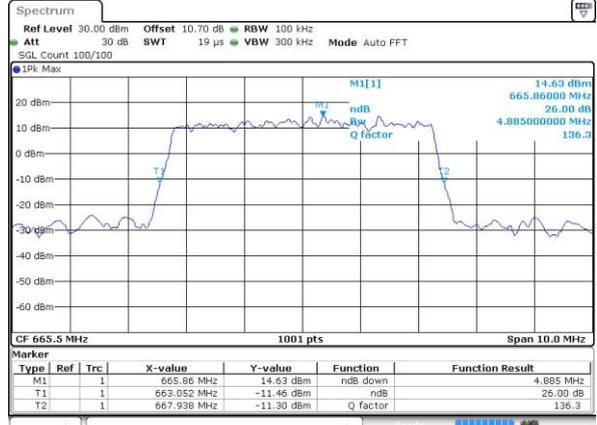
LTE Band 71

Lowest Channel / 5MHz / QPSK



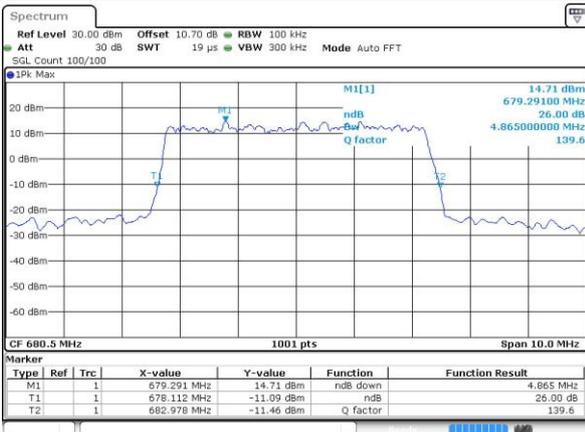
Date: 8 JAN 2019 15:21:08

Lowest Channel / 5MHz / 16QAM



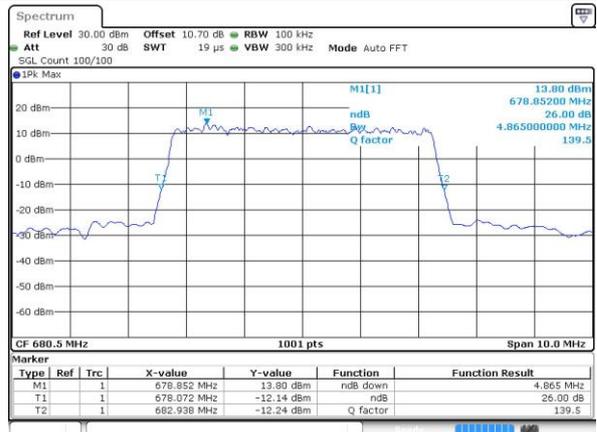
Date: 8 JAN 2019 15:21:21

Middle Channel / 5MHz / QPSK



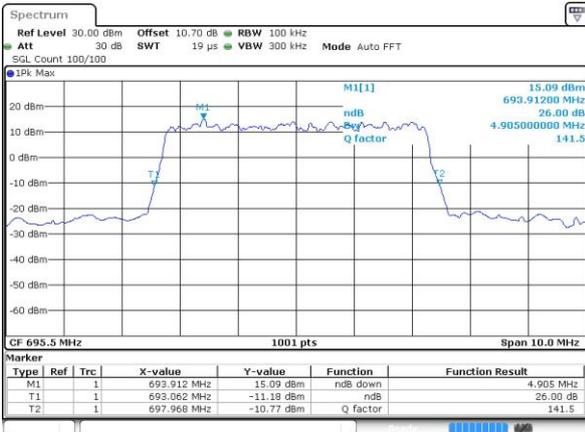
Date: 8 JAN 2019 15:26:42

Middle Channel / 5MHz / 16QAM



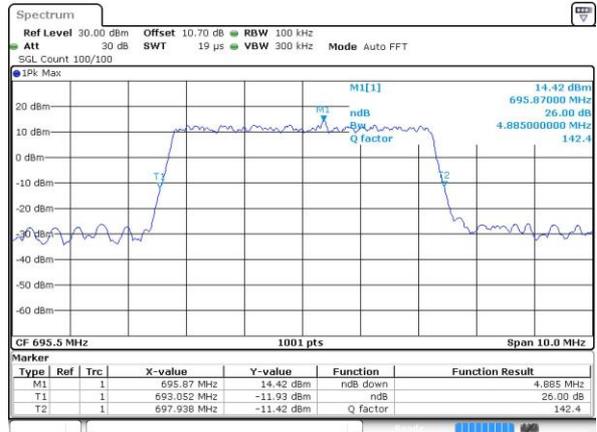
Date: 8 JAN 2019 15:26:54

Highest Channel / 5MHz / QPSK



Date: 8 JAN 2019 15:29:30

Highest Channel / 5MHz / 16QAM

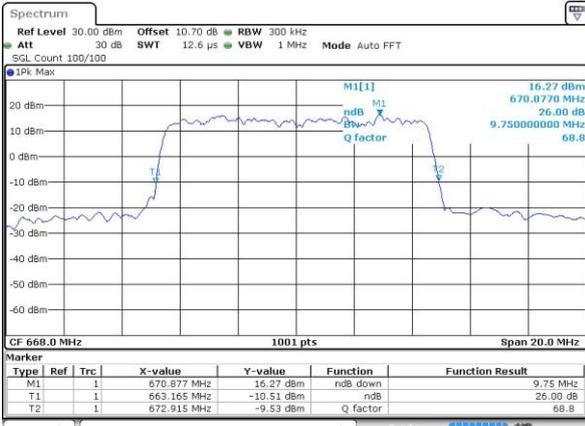


Date: 8 JAN 2019 15:29:42



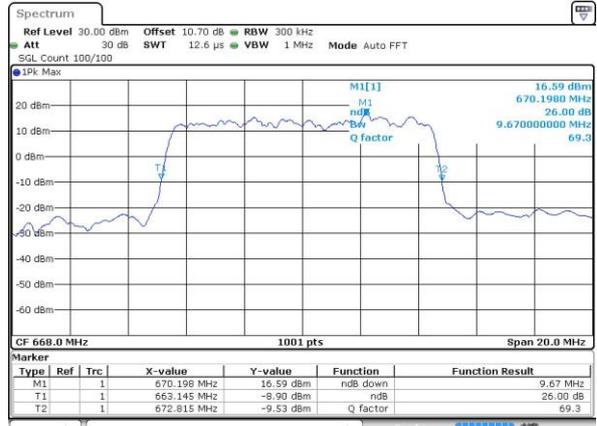
LTE Band 71

Lowest Channel / 10MHz / QPSK



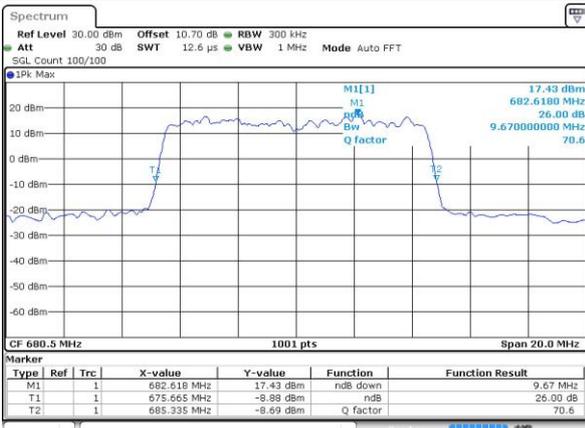
Date: 8 JAN 2019 15:42:10

Lowest Channel / 10MHz / 16QAM



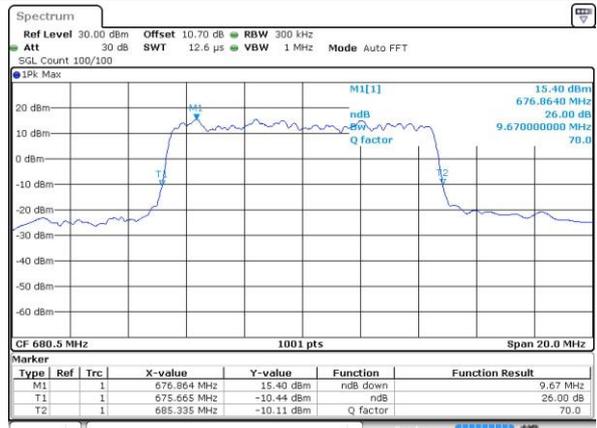
Date: 8 JAN 2019 15:42:22

Middle Channel / 10MHz / QPSK



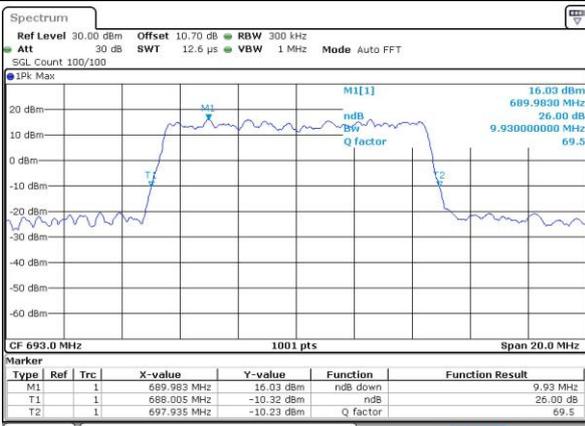
Date: 8 JAN 2019 15:47:41

Middle Channel / 10MHz / 16QAM



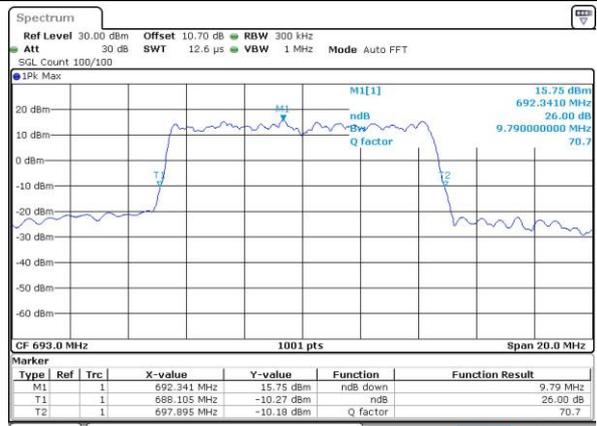
Date: 8 JAN 2019 15:47:52

Highest Channel / 10MHz / QPSK



Date: 8 JAN 2019 15:50:28

Highest Channel / 10MHz / 16QAM

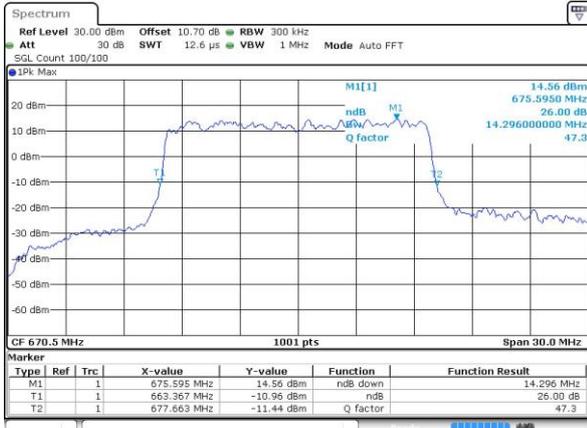


Date: 8 JAN 2019 15:50:41



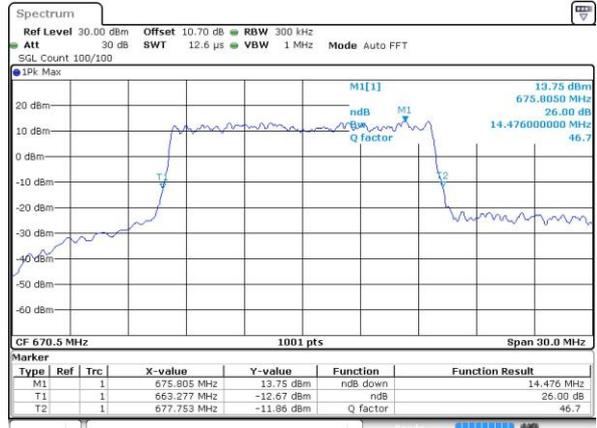
LTE Band 71

Lowest Channel / 15MHz / QPSK



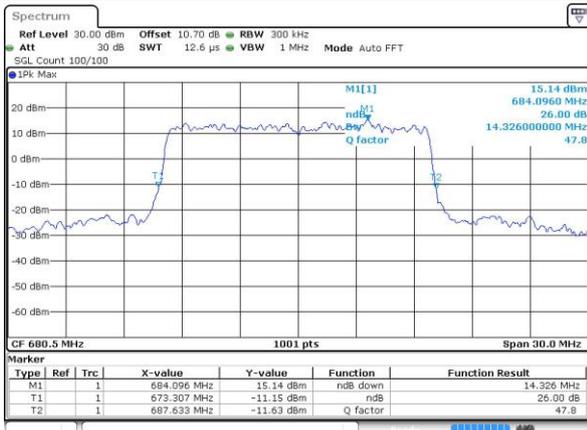
Date: 8 JAN 2019 16:02:58

Lowest Channel / 15MHz / 16QAM



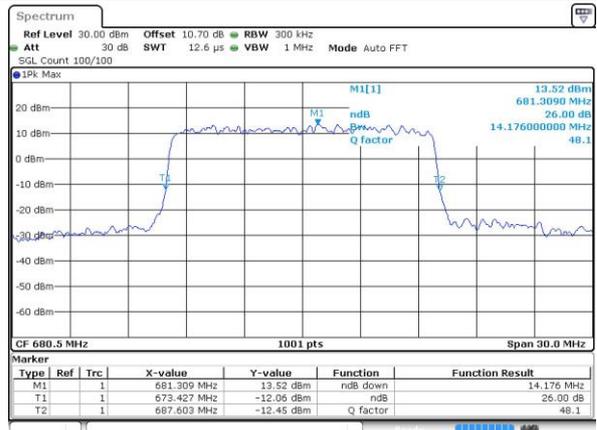
Date: 8 JAN 2019 16:03:10

Middle Channel / 15MHz / QPSK



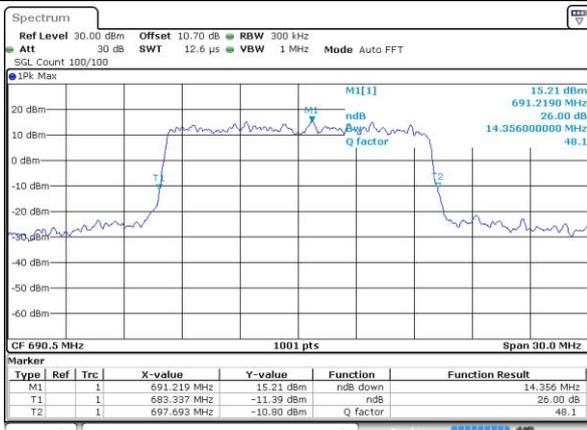
Date: 8 JAN 2019 16:08:30

Middle Channel / 15MHz / 16QAM



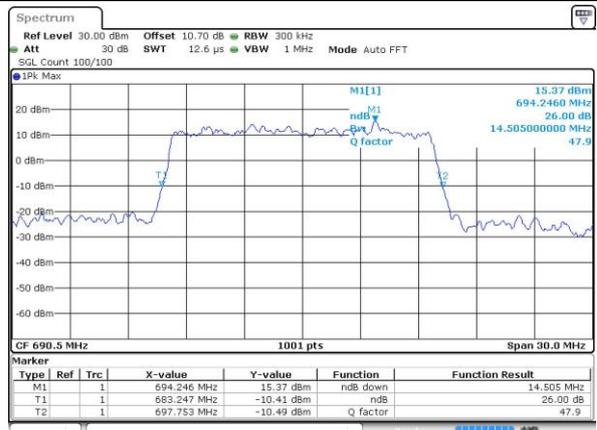
Date: 8 JAN 2019 16:08:41

Highest Channel / 15MHz / QPSK



Date: 8 JAN 2019 16:11:17

Highest Channel / 15MHz / 16QAM

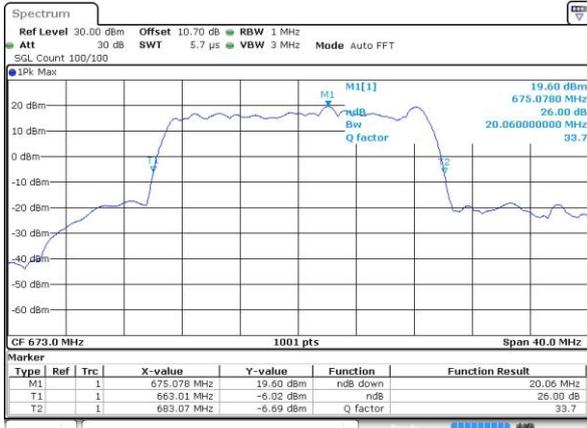


Date: 8 JAN 2019 16:11:29



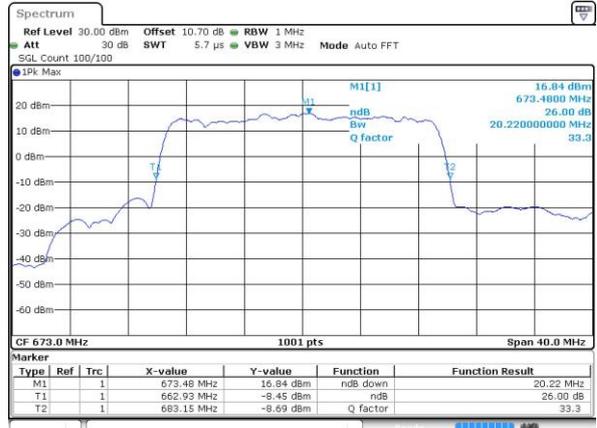
LTE Band 71

Lowest Channel / 20MHz / QPSK



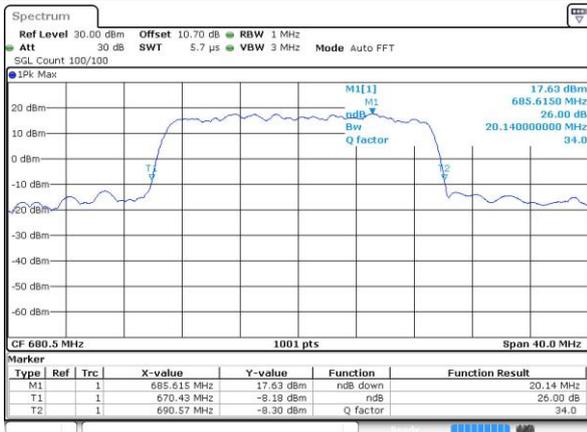
Date: 8 JAN 2019 16:23:47

Lowest Channel / 20MHz / 16QAM



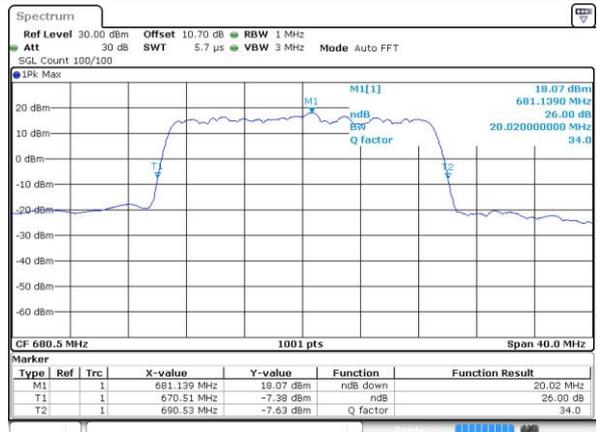
Date: 8 JAN 2019 16:23:59

Middle Channel / 20MHz / QPSK



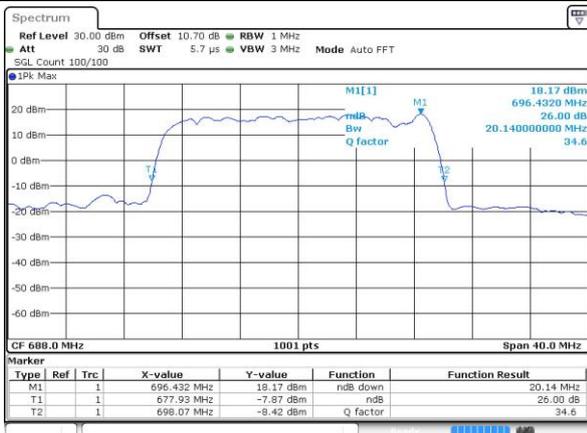
Date: 8 JAN 2019 16:29:19

Middle Channel / 20MHz / 16QAM



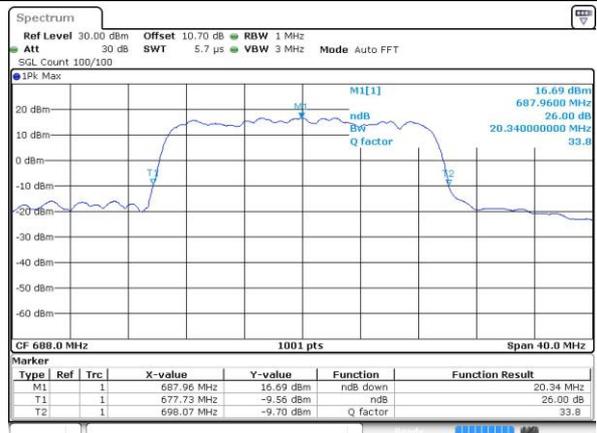
Date: 8 JAN 2019 16:29:31

Highest Channel / 20MHz / QPSK



Date: 8 JAN 2019 16:32:06

Highest Channel / 20MHz / 16QAM

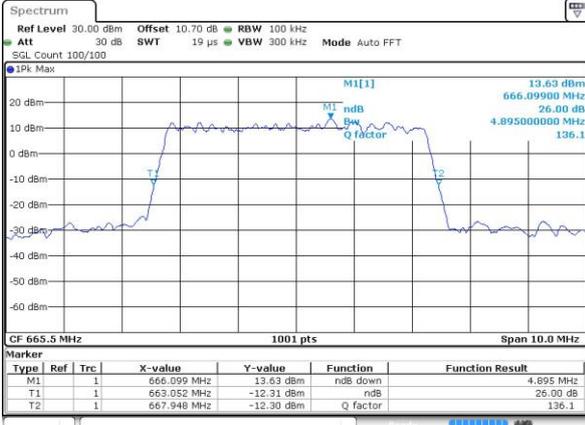


Date: 8 JAN 2019 16:32:19



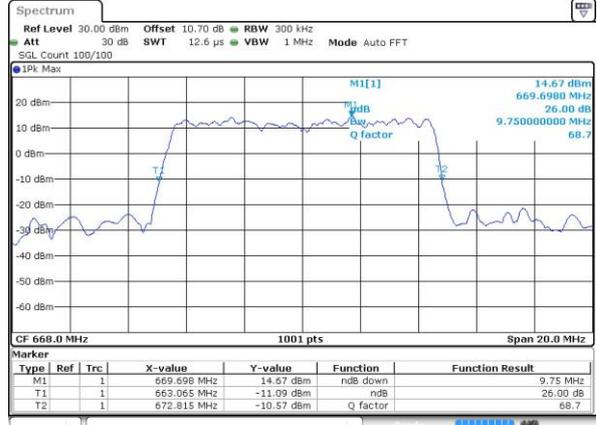
LTE Band 71

Lowest Channel / 5MHz / 64QAM



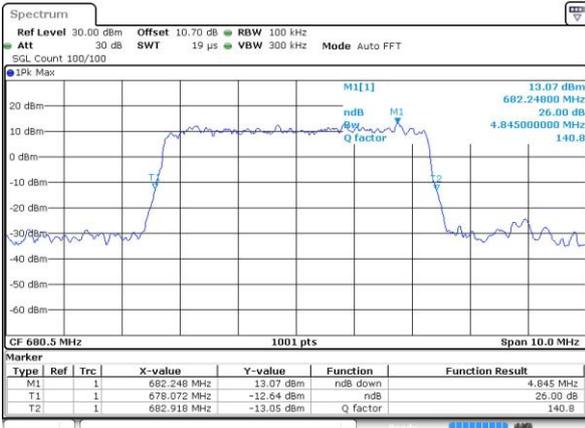
Date: 8 JAN 2019 15:34:57

Lowest Channel / 10MHz / 64QAM



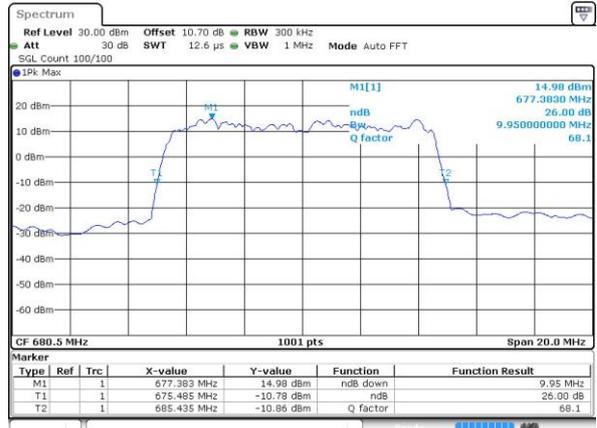
Date: 8 JAN 2019 15:55:49

Middle Channel / 5MHz / 64QAM



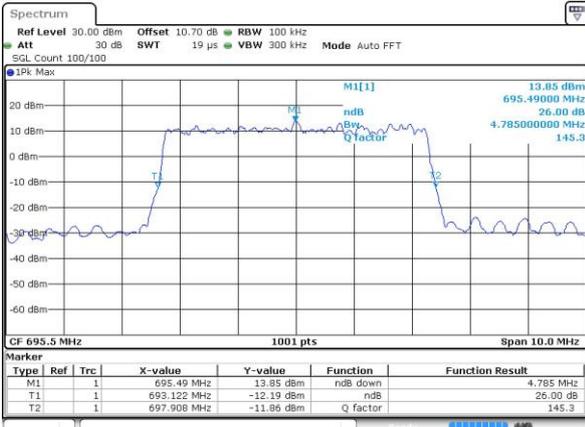
Date: 8 JAN 2019 15:37:44

Middle Channel / 10MHz / 64QAM



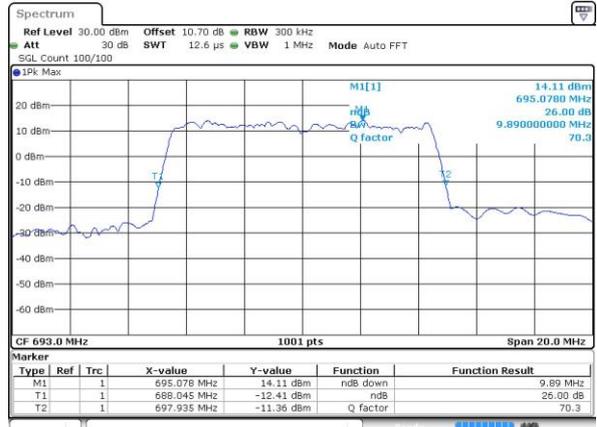
Date: 8 JAN 2019 15:58:34

Highest Channel / 5MHz / 64QAM



Date: 8 JAN 2019 15:39:08

Highest Channel / 10MHz / 64QAM

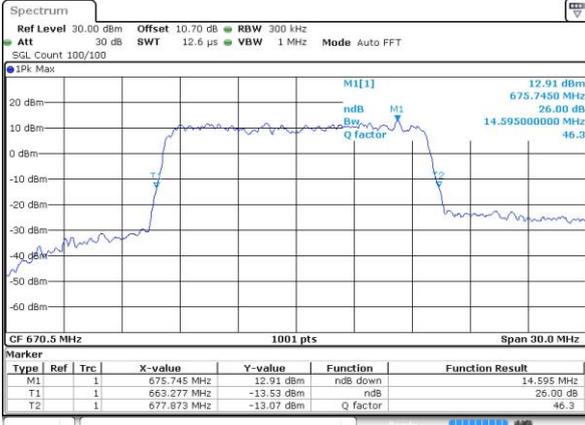


Date: 8 JAN 2019 15:59:58



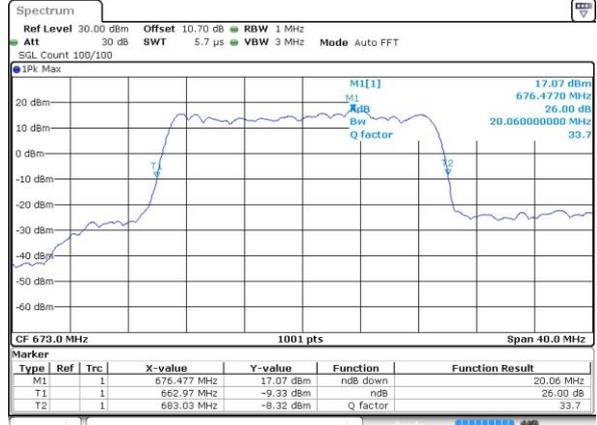
LTE Band 71

Lowest Channel / 15MHz / 64QAM



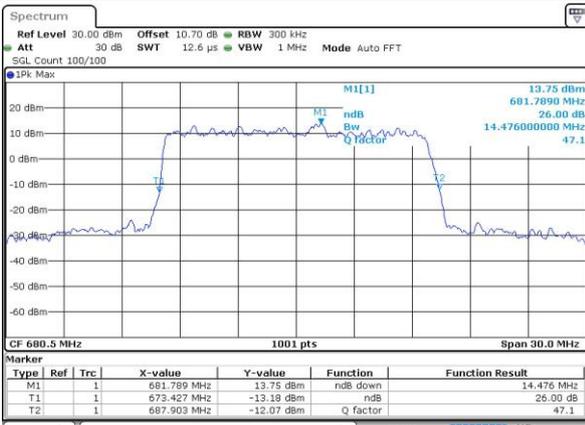
Date: 8 JAN 2019 16:51:31

Lowest Channel / 20MHz / 64QAM



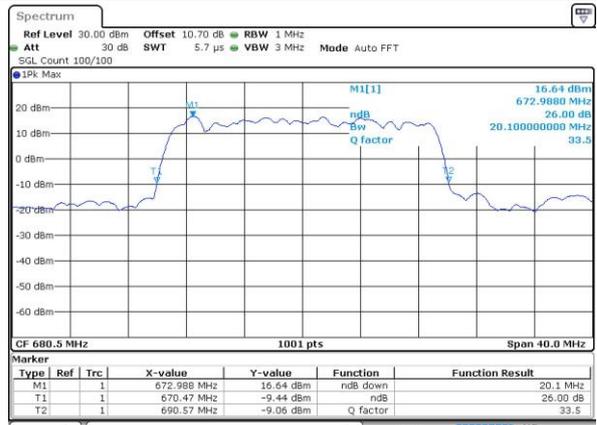
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Middle Channel / 15MHz / 64QAM



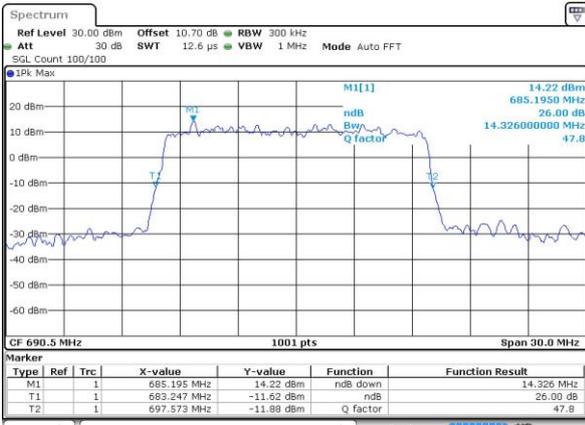
Date: 8 JAN 2019 16:19:24

Middle Channel / 20MHz / 64QAM



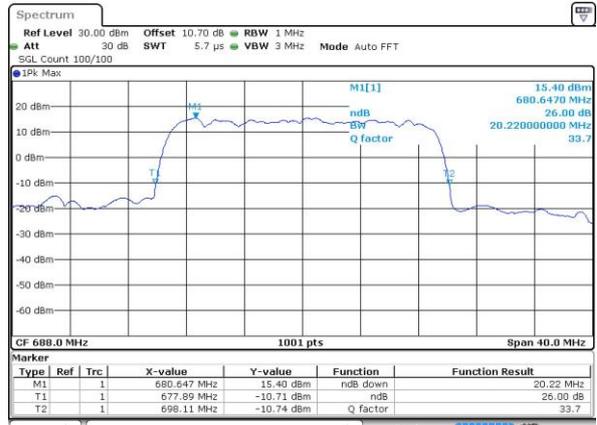
Date: 8 JAN 2019 16:40:13

Highest Channel / 15MHz / 64QAM



Date: 8 JAN 2019 16:20:47

Highest Channel / 20MHz / 64QAM



Date: 8 JAN 2019 16:41:37



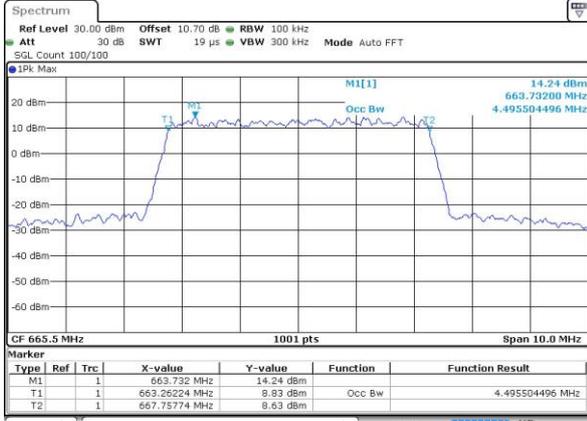
Occupied Bandwidth

Mode	LTE Band 71 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.5	4.48	8.97	8.97	13.43	13.4	18.26	18.34
Middle CH	-	-	-	-	4.49	4.49	9.07	9.05	13.37	13.31	18.38	18.22
Highest CH	-	-	-	-	4.5	4.49	9.07	8.99	13.49	13.43	18.38	18.26
Mode	LTE Band 71 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	9.01	-	13.37	-	18.38	-
Middle CH	-	-	-	-	4.50	-	9.03	-	13.46	-	18.42	-
Highest CH	-	-	-	-	4.50	-	9.07	-	13.43	-	18.38	-



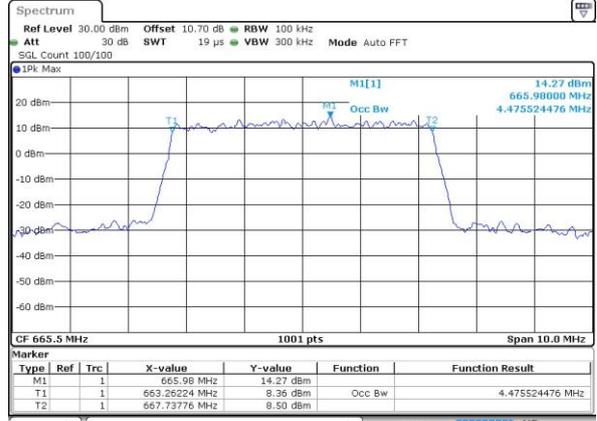
LTE Band 71

Lowest Channel / 5MHz / QPSK



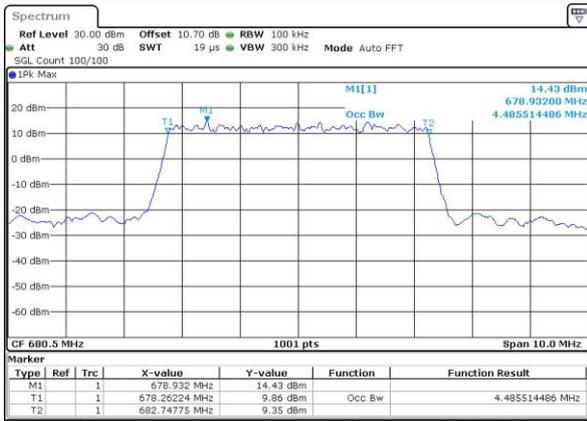
Date: 8 JAN 2019 15:20:44

Lowest Channel / 5MHz / 16QAM



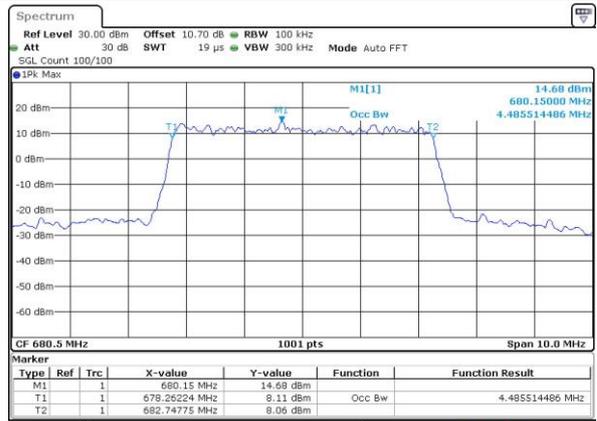
Date: 8 JAN 2019 15:20:56

Middle Channel / 5MHz / QPSK



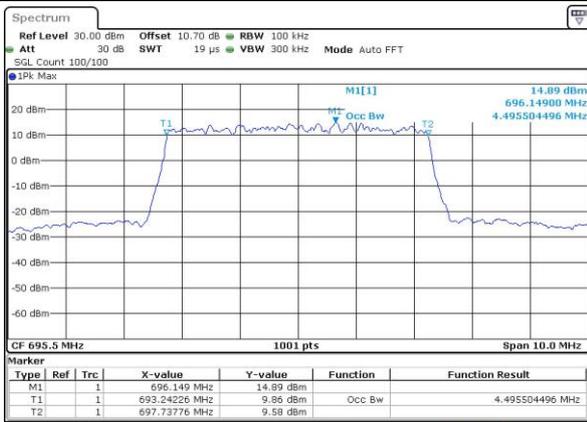
Date: 8 JAN 2019 15:26:19

Middle Channel / 5MHz / 16QAM



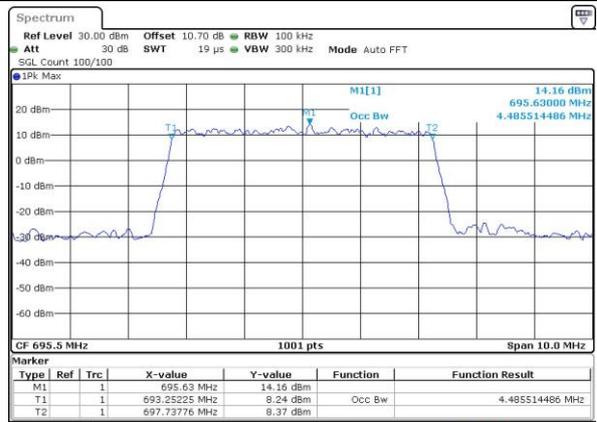
Date: 8 JAN 2019 15:26:31

Highest Channel / 5MHz / QPSK



Date: 8 JAN 2019 15:29:05

Highest Channel / 5MHz / 16QAM

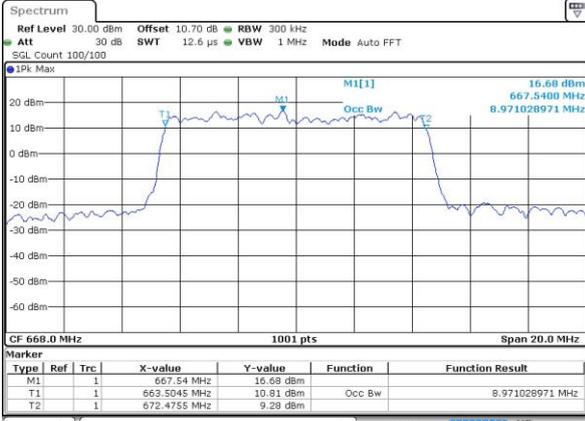


Date: 8 JAN 2019 15:29:17



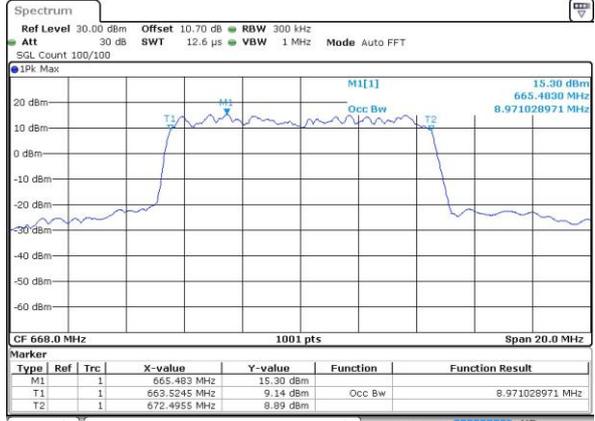
LTE Band 71

Lowest Channel / 10MHz / QPSK



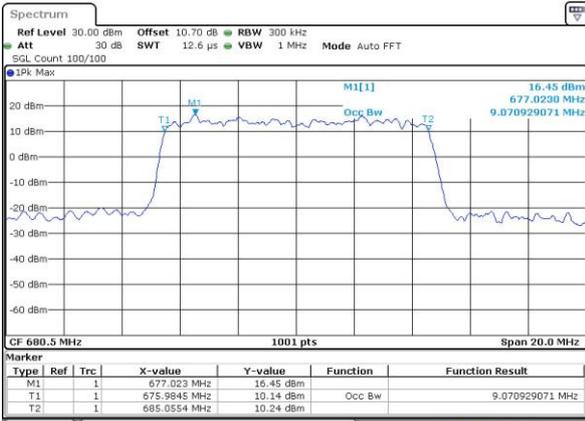
Date: 8 JAN 2019 15:41:45

Lowest Channel / 10MHz / 16QAM



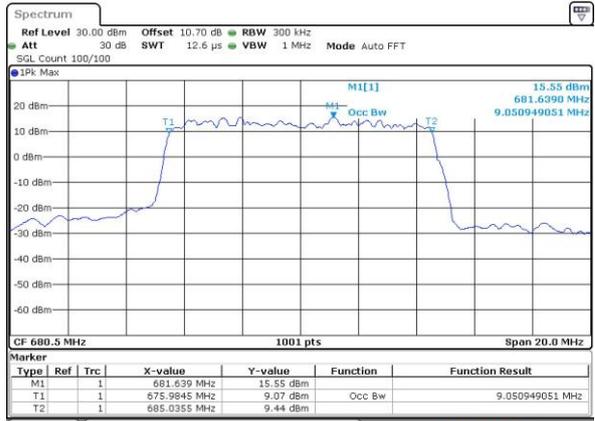
Date: 8 JAN 2019 15:41:58

Middle Channel / 10MHz / QPSK



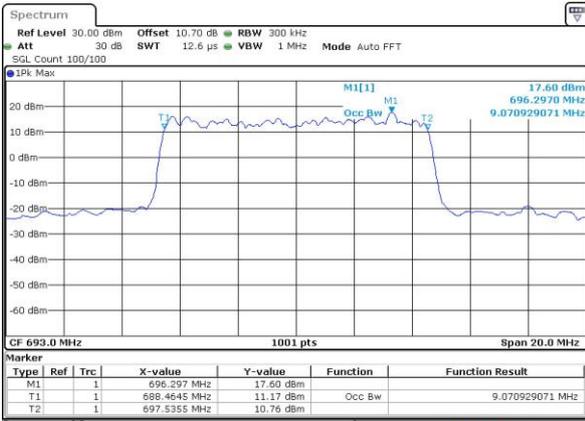
Date: 8 JAN 2019 15:47:17

Middle Channel / 10MHz / 16QAM



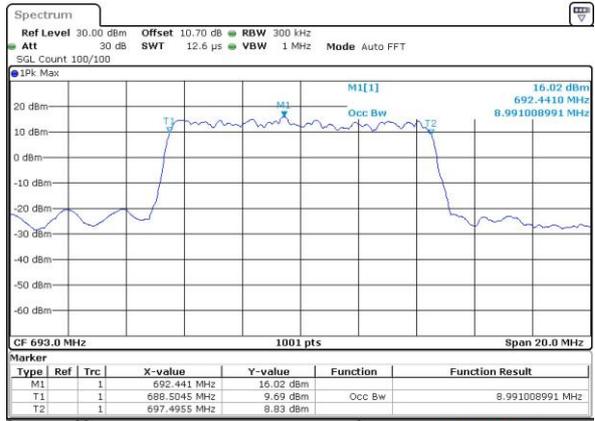
Date: 8 JAN 2019 15:47:29

Highest Channel / 10MHz / QPSK



Date: 8 JAN 2019 15:50:04

Highest Channel / 10MHz / 16QAM



Date: 8 JAN 2019 15:50:16