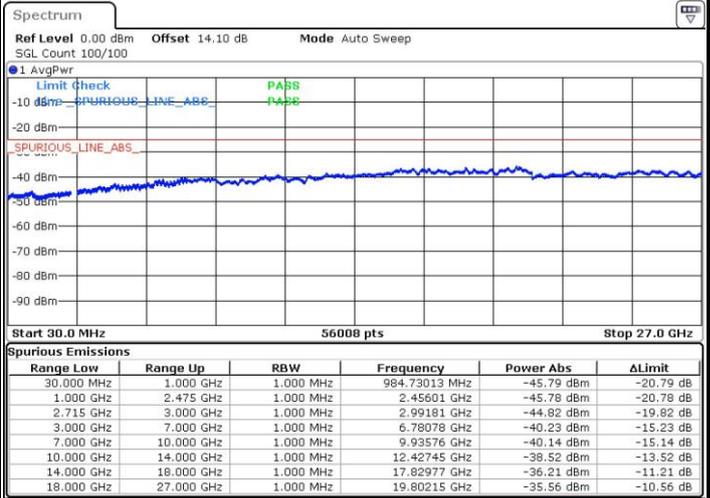
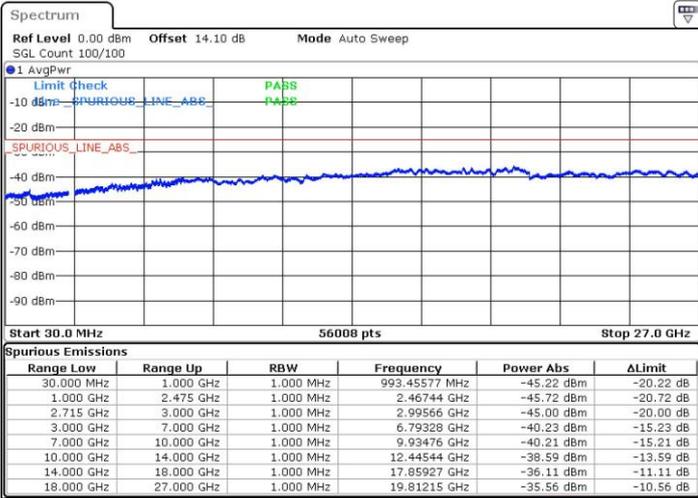




LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

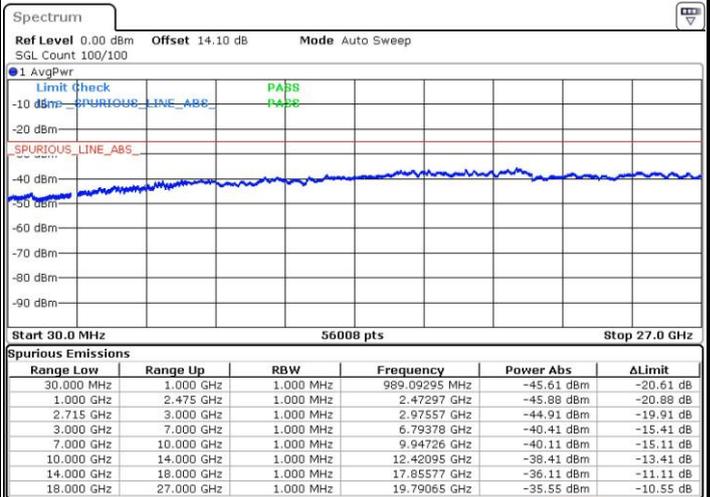
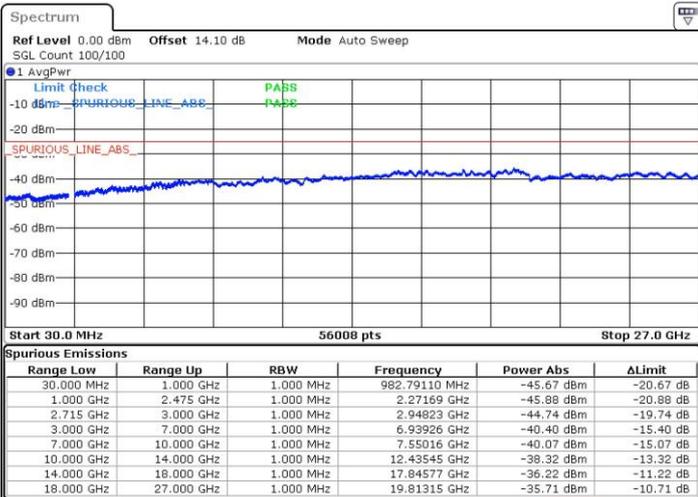


Date: 8 JAN 2019 20:54:59

Date: 8 JAN 2019 20:55:56

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 8 JAN 2019 20:56:54

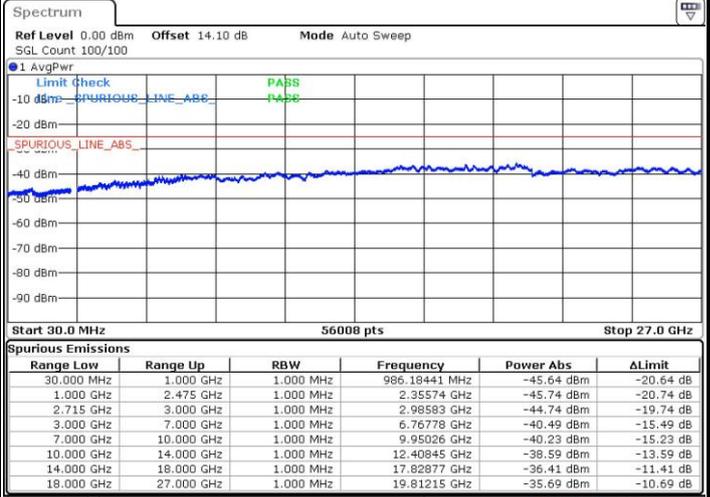
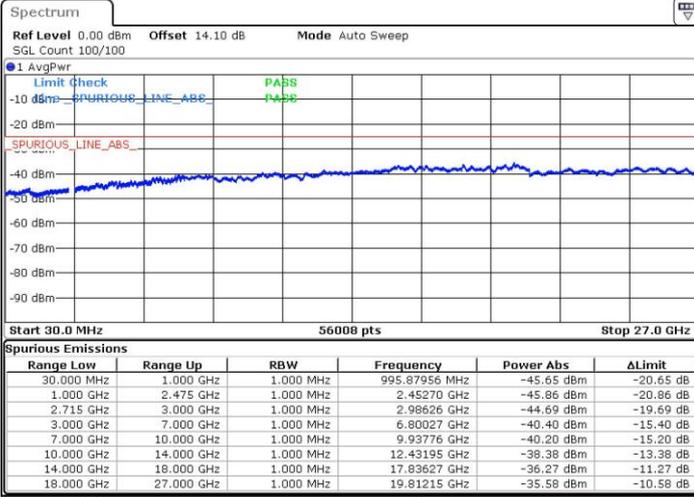
Date: 8 JAN 2019 20:57:51



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

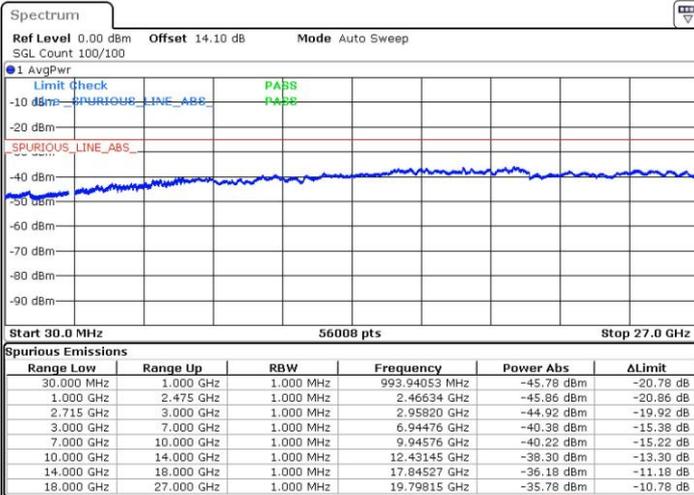
Middle Channel / 64QAM



Date: 8 JAN 2019 20:24:18

Date: 8 JAN 2019 20:25:15

Highest Channel / 64QAM



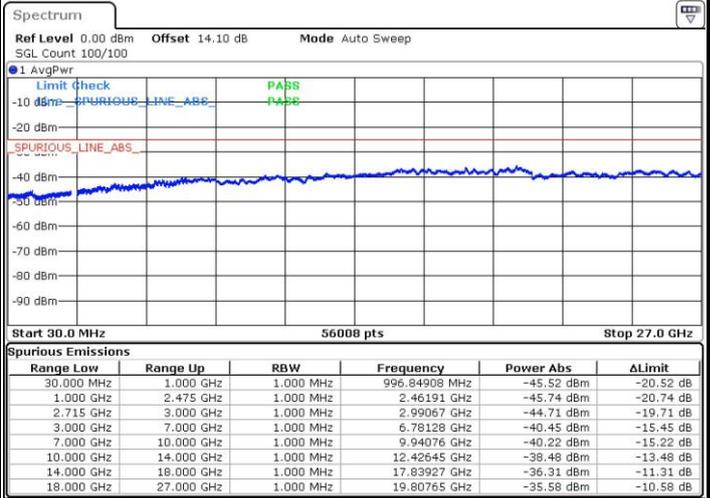
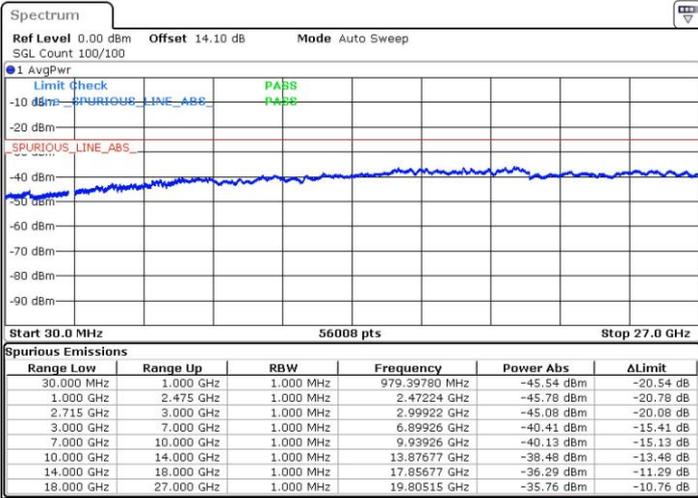
Date: 8 JAN 2019 20:26:12



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

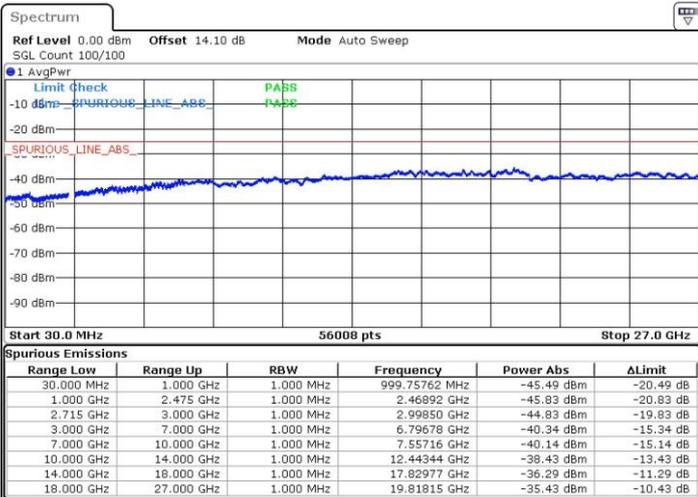
Middle Channel / 64QAM



Date: 8 JAN 2019 20:27:10

Date: 8 JAN 2019 20:28:07

Highest Channel / 64QAM



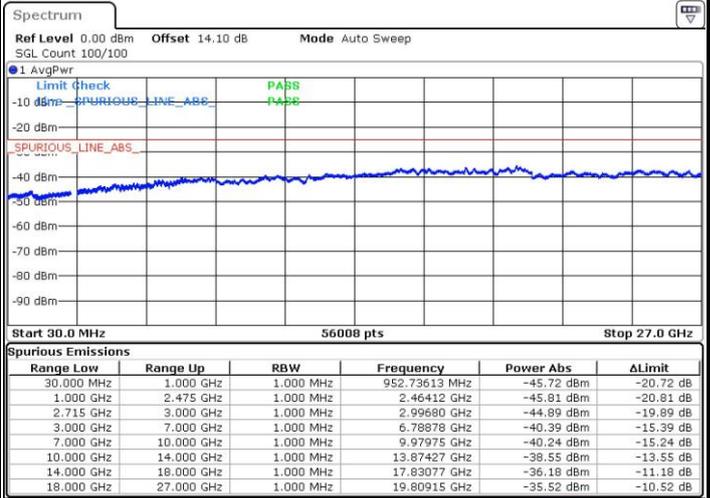
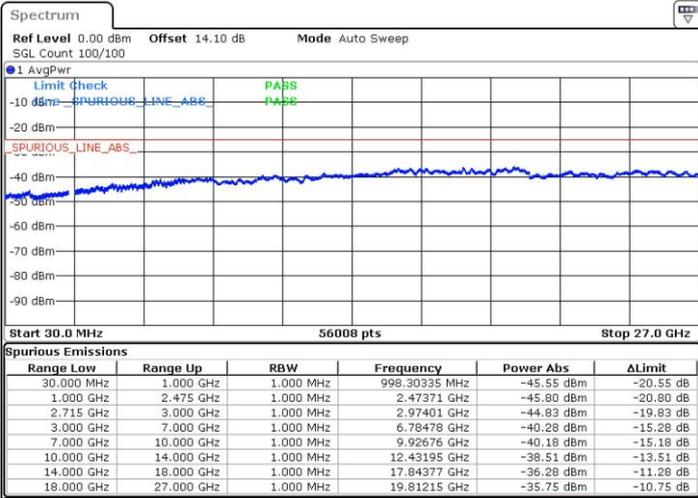
Date: 8 JAN 2019 20:29:04



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

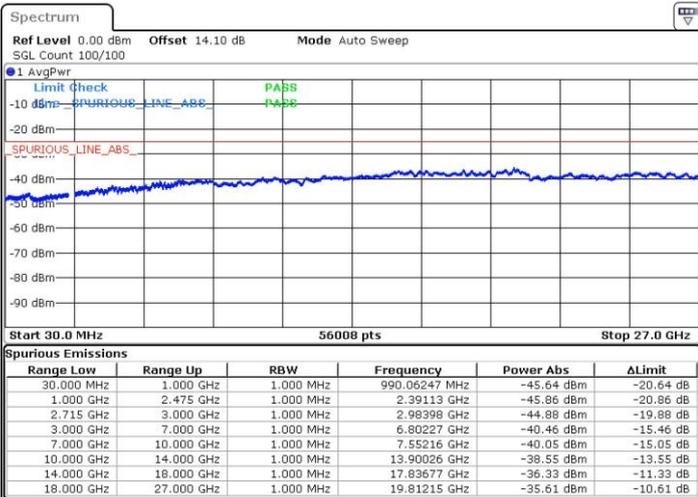
Middle Channel / 64QAM



Date: 8 JAN 2019 20:30:02

Date: 8 JAN 2019 20:30:59

Highest Channel / 64QAM



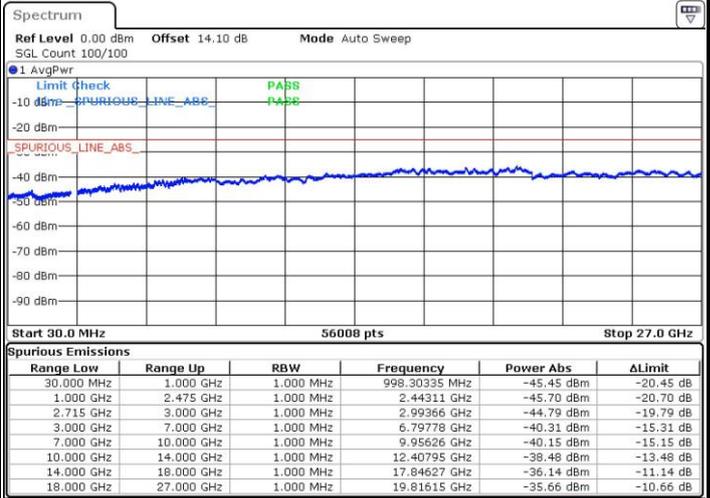
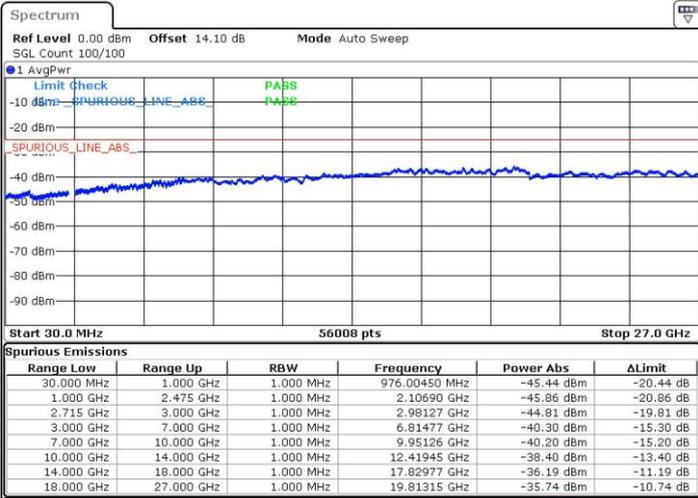
Date: 8 JAN 2019 20:31:57



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

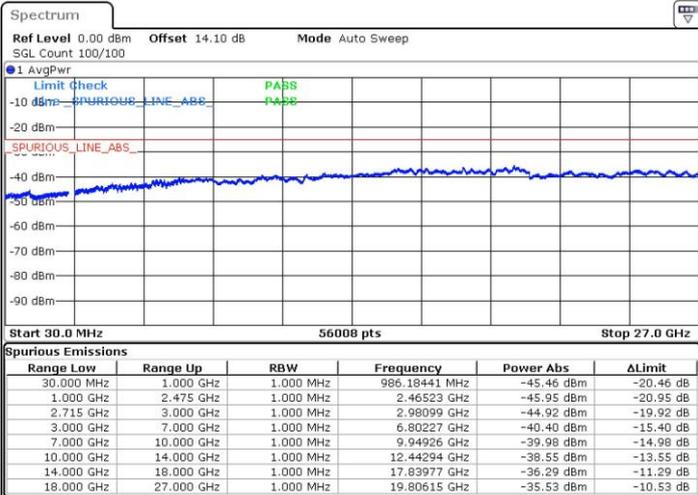
Middle Channel / 64QAM



Date: 8 JAN 2019 20:32:54

Date: 8 JAN 2019 20:33:51

Highest Channel / 64QAM



Date: 8 JAN 2019 20:34:49



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0074	
0	Normal Voltage	0.0081	
-10	Normal Voltage	0.0075	
-20	Normal Voltage	0.0085	
-30	Normal Voltage	0.0085	
20	Maximum Voltage	0.0078	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

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 41 HPUE

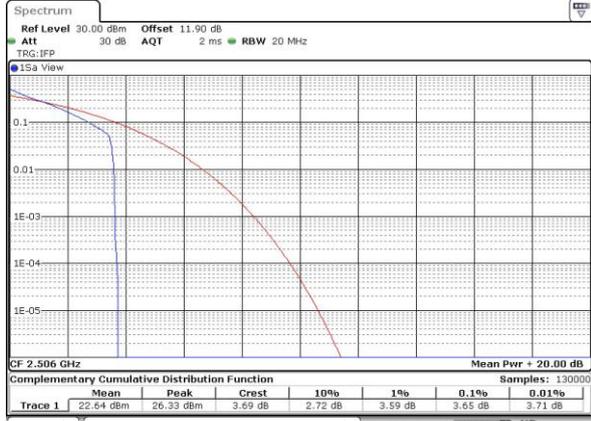
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.65	4.99	5.48	5.97	PASS
Middle CH	3.71	4.96	5.25	5.94	
Highest CH	3.57	4.96	5.42	5.91	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.20	6.41	-	-	PASS
Middle CH	6.43	6.41	-	-	
Highest CH	6.09	6.52	-	-	



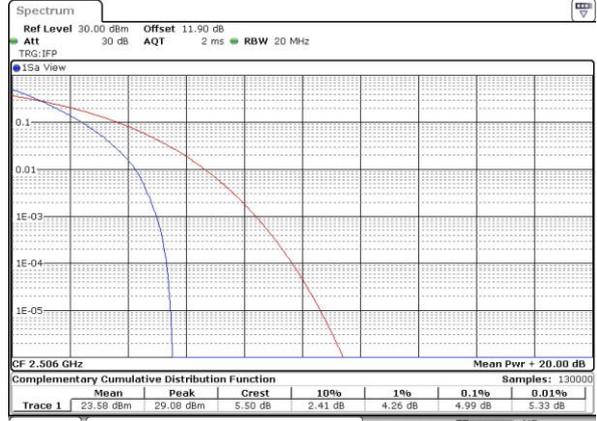
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



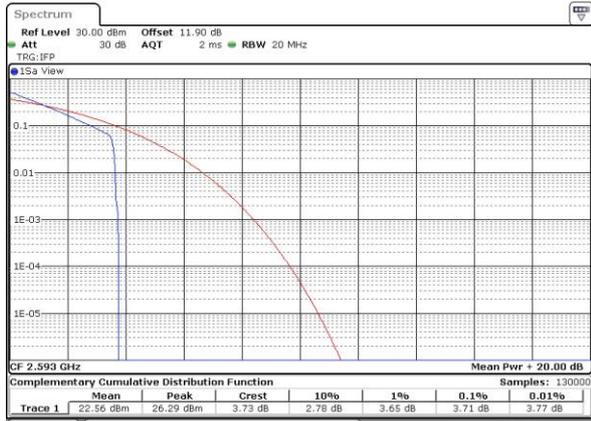
Date: 4 JAN 2019 15:40:11

Lowest Channel / Full RB



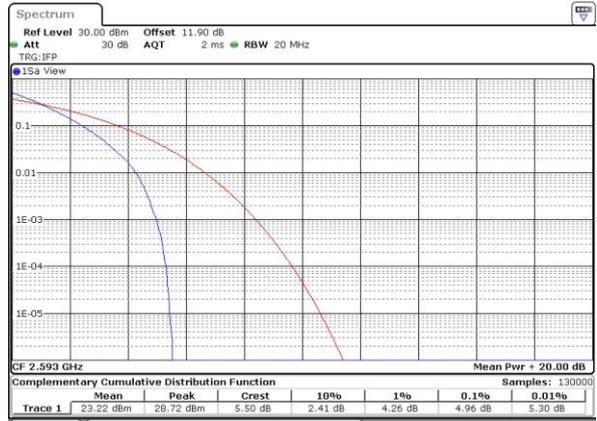
Date: 4 JAN 2019 15:40:27

Middle Channel / 1RB



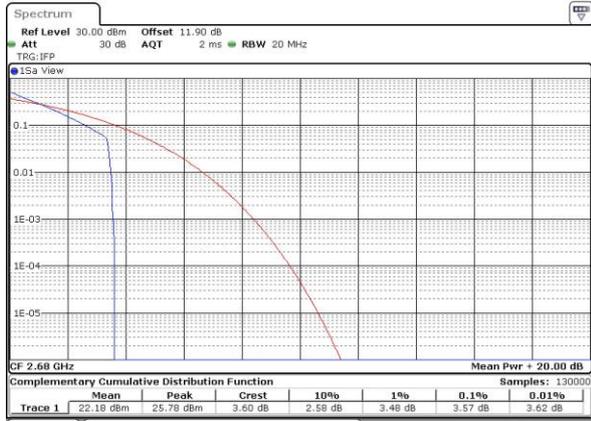
Date: 4 JAN 2019 15:40:42

Middle Channel / Full RB



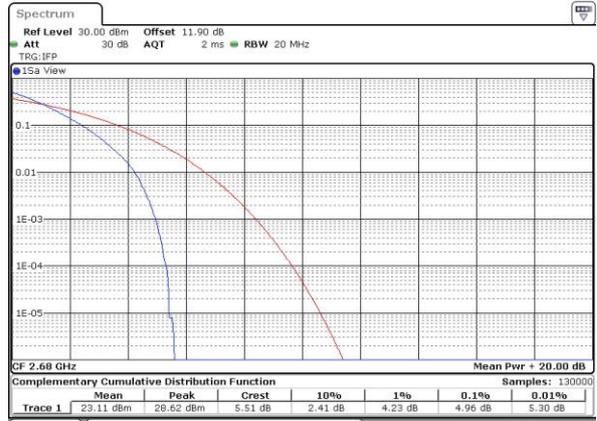
Date: 4 JAN 2019 15:42:32

Highest Channel / 1RB



Date: 4 JAN 2019 15:42:49

Highest Channel / Full RB



Date: 4 JAN 2019 15:43:04



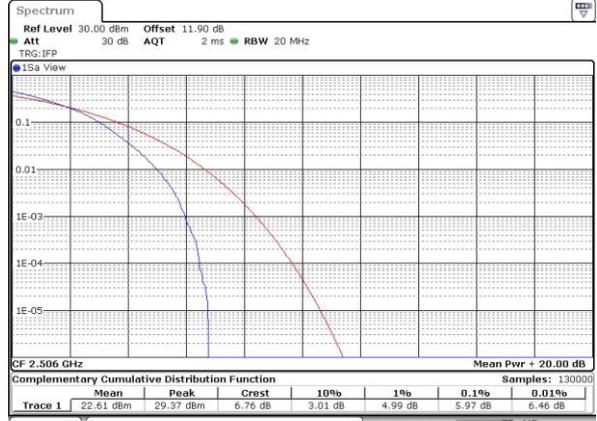
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



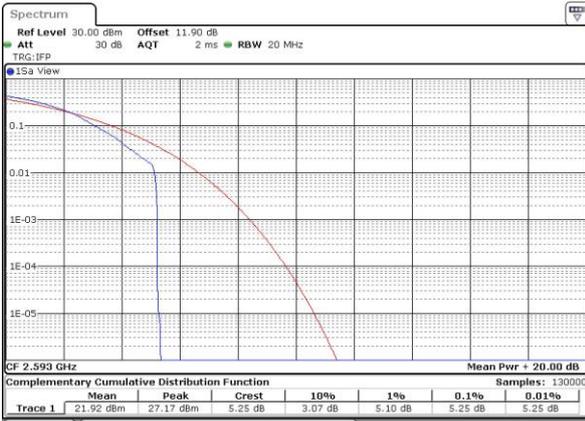
Date: 4 JAN 2019 15:36:12

Lowest Channel / Full RB



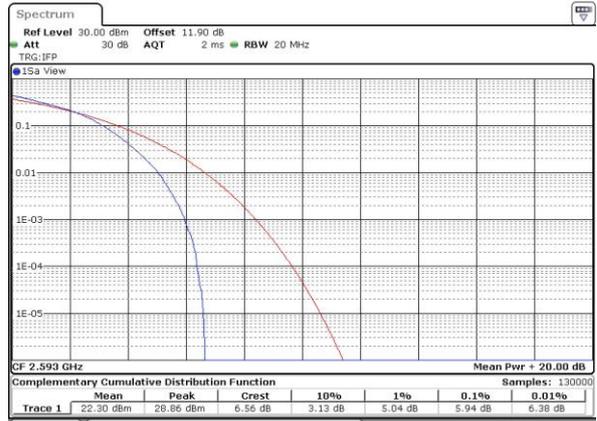
Date: 4 JAN 2019 15:36:31

Middle Channel / 1RB



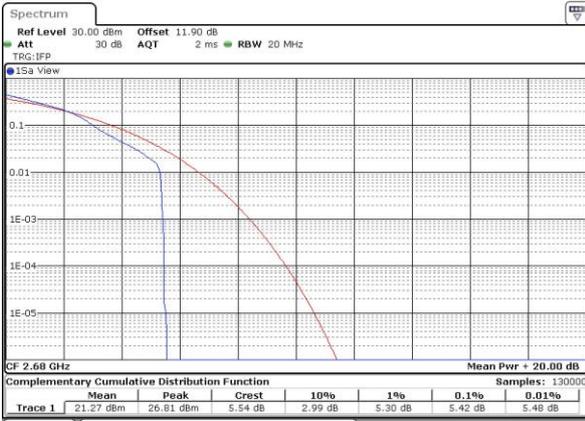
Date: 4 JAN 2019 15:38:05

Middle Channel / Full RB



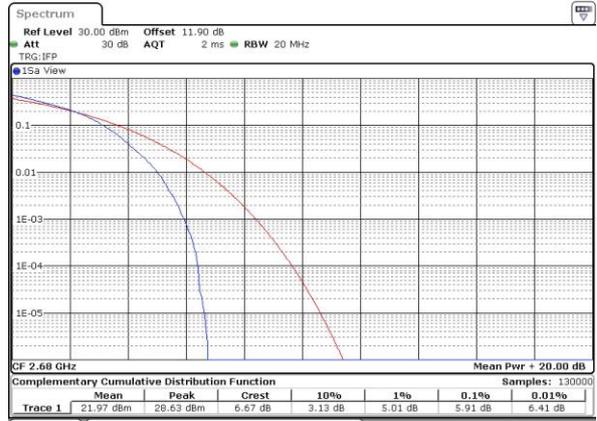
Date: 4 JAN 2019 15:38:24

Highest Channel / 1RB



Date: 4 JAN 2019 15:38:53

Highest Channel / Full RB

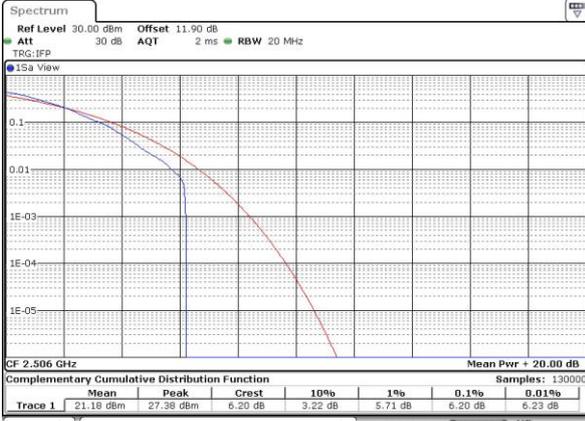


Date: 4 JAN 2019 15:39:45



LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 4 JAN 2019 15:32:40

Lowest Channel / Full RB



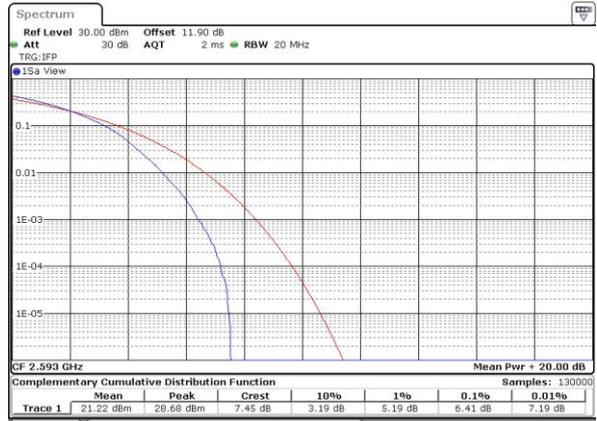
Date: 4 JAN 2019 15:34:09

Middle Channel / 1RB



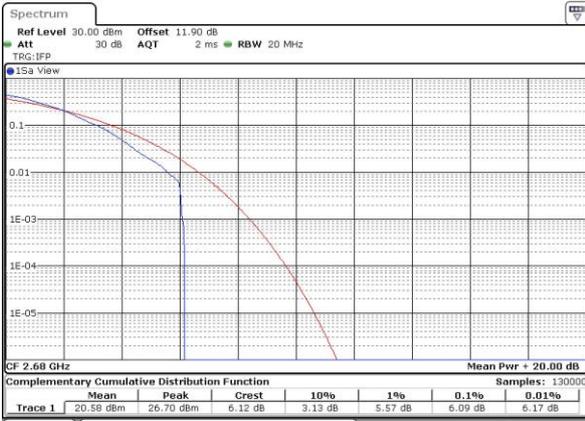
Date: 4 JAN 2019 15:34:26

Middle Channel / Full RB



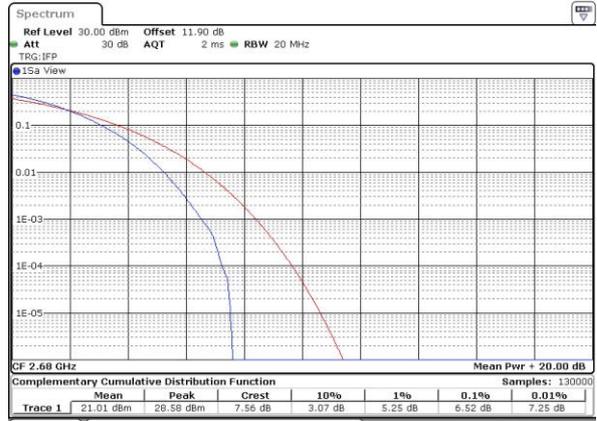
Date: 4 JAN 2019 15:34:56

Highest Channel / 1RB



Date: 4 JAN 2019 15:35:15

Highest Channel / Full RB



Date: 4 JAN 2019 15:35:56



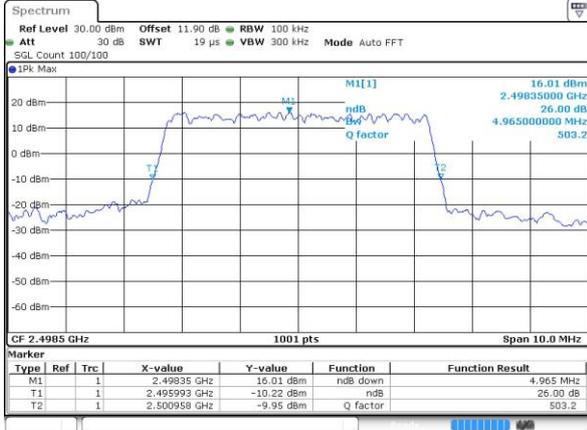
26dB Bandwidth

Mode	LTE Band 41 : 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	-	-	-	-	4.97	4.94	9.71	9.77	14.45	14.45	20.10	20.18
Middle CH	-	-	-	-	4.91	4.91	9.63	9.59	14.27	14.09	20.18	20.34
Highest CH	-	-	-	-	4.84	4.87	9.81	9.65	14.30	14.54	20.10	20.06
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.86	-	9.63	-	14.15	-	20.22	-
Middle CH	-	-	-	-	4.82	-	9.71	-	14.42	-	20.14	-
Highest CH	-	-	-	-	4.83	-	9.63	-	14.15	-	20.18	-



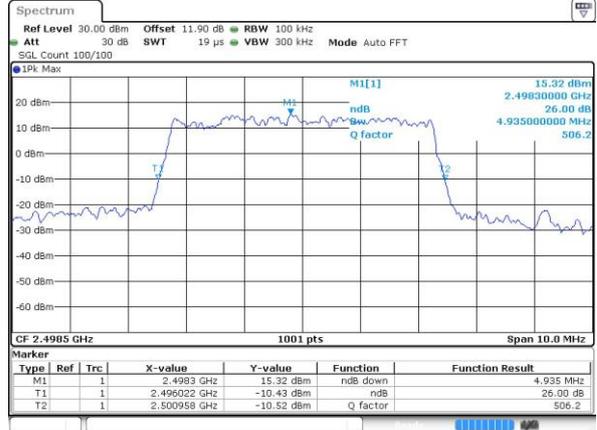
LTE Band 41

Lowest Channel / 5MHz / QPSK



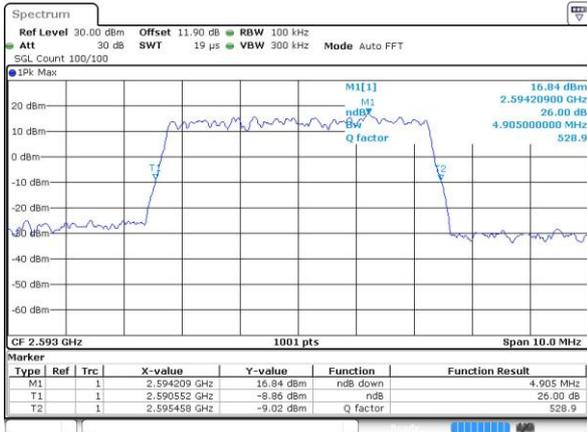
Date: 4 JAN 2019 15:13:37

Lowest Channel / 5MHz / 16QAM



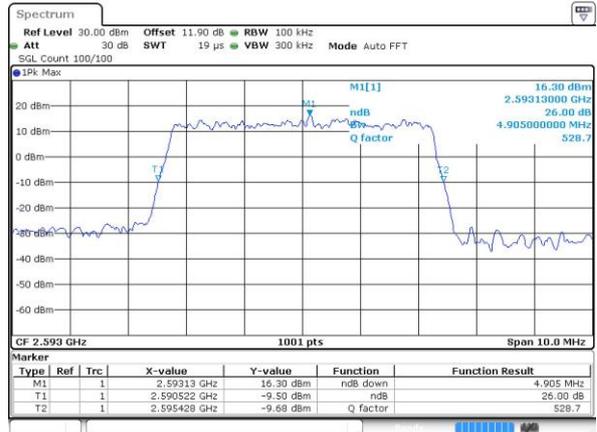
Date: 4 JAN 2019 15:13:48

Middle Channel / 5MHz / QPSK



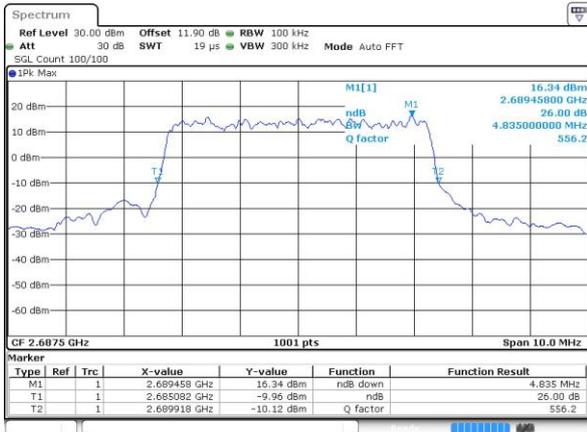
Date: 4 JAN 2019 15:14:22

Middle Channel / 5MHz / 16QAM



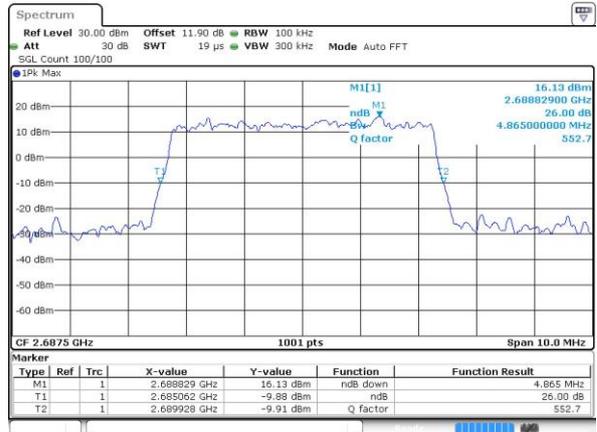
Date: 4 JAN 2019 15:14:34

Highest Channel / 5MHz / QPSK



Date: 4 JAN 2019 15:15:08

Highest Channel / 5MHz / 16QAM

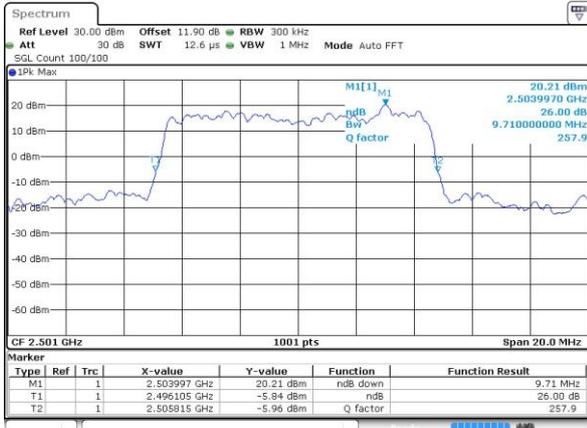


Date: 4 JAN 2019 15:15:20



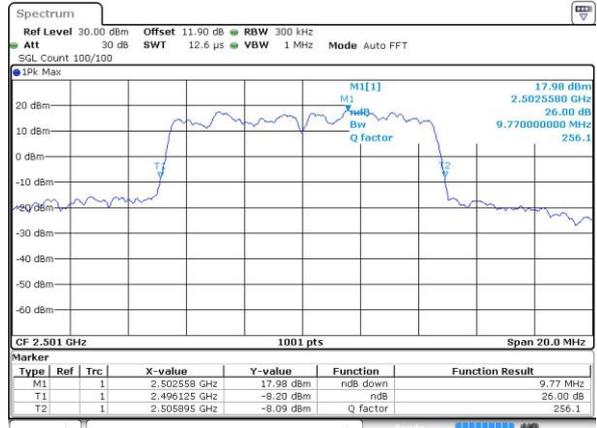
LTE Band 41

Lowest Channel / 10MHz / QPSK



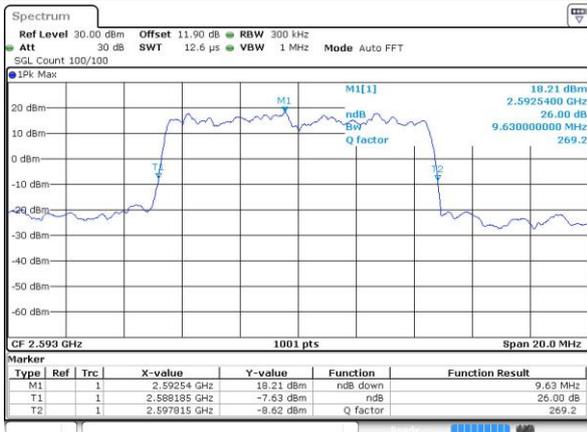
Date: 4 JAN 2019 15:15:54

Lowest Channel / 10MHz / 16QAM



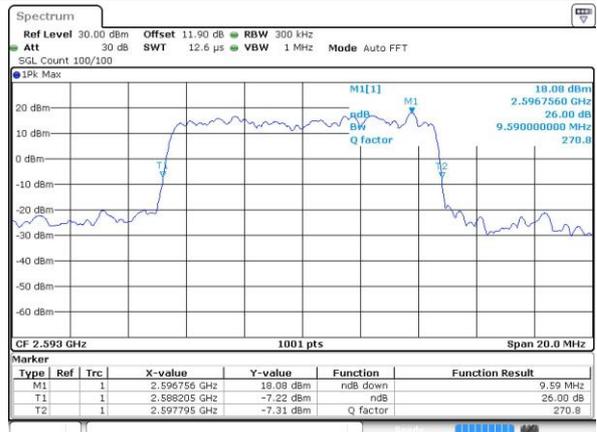
Date: 4 JAN 2019 15:16:05

Middle Channel / 10MHz / QPSK



Date: 4 JAN 2019 15:16:40

Middle Channel / 10MHz / 16QAM



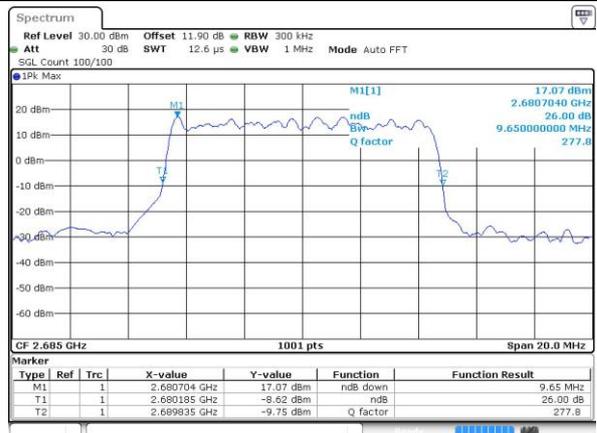
Date: 4 JAN 2019 15:16:51

Highest Channel / 10MHz / QPSK



Date: 4 JAN 2019 15:17:26

Highest Channel / 10MHz / 16QAM

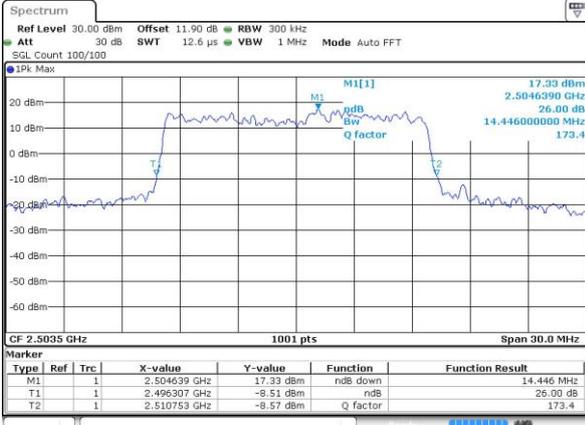


Date: 4 JAN 2019 15:17:37



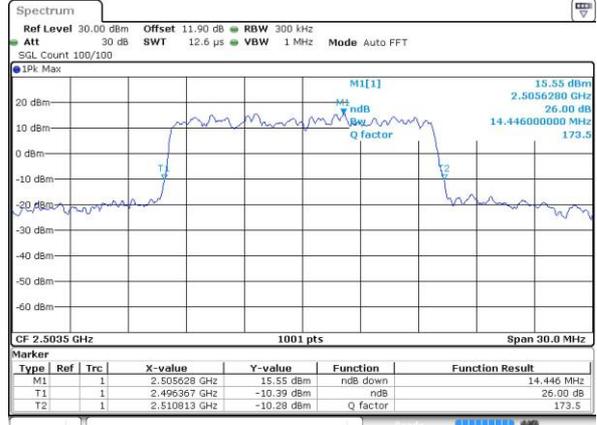
LTE Band 41

Lowest Channel / 15MHz / QPSK



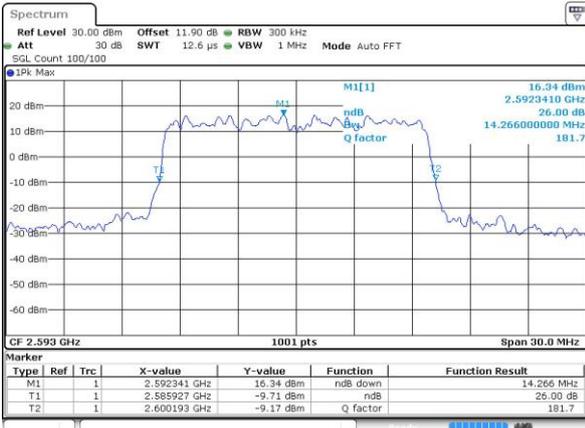
Date: 4 JAN 2019 15:18:11

Lowest Channel / 15MHz / 16QAM



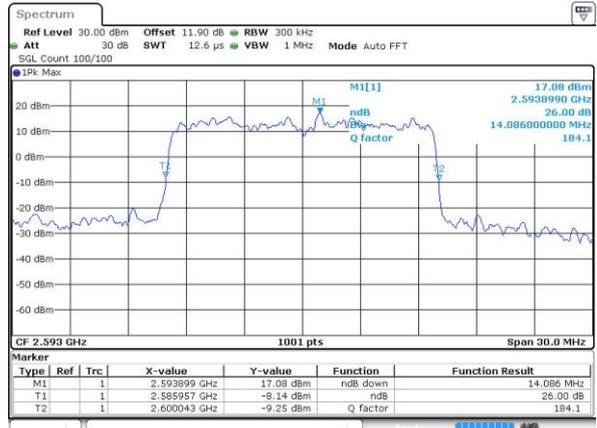
Date: 4 JAN 2019 15:18:23

Middle Channel / 15MHz / QPSK



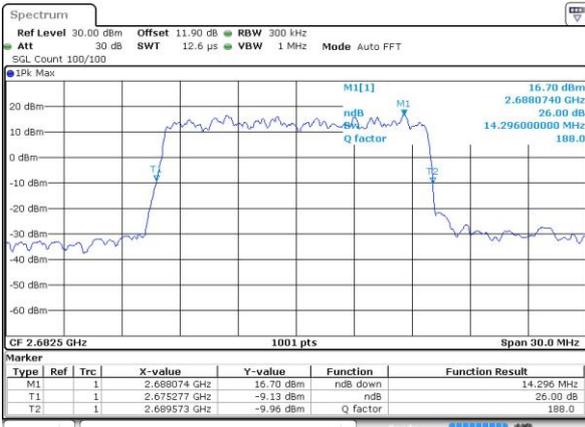
Date: 4 JAN 2019 15:18:57

Middle Channel / 15MHz / 16QAM



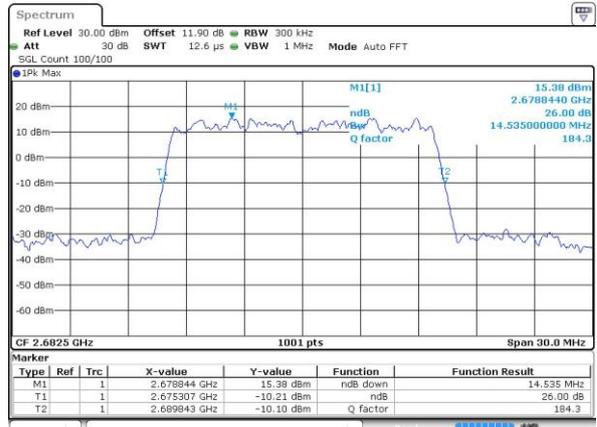
Date: 4 JAN 2019 15:19:09

Highest Channel / 15MHz / QPSK



Date: 4 JAN 2019 15:19:43

Highest Channel / 15MHz / 16QAM

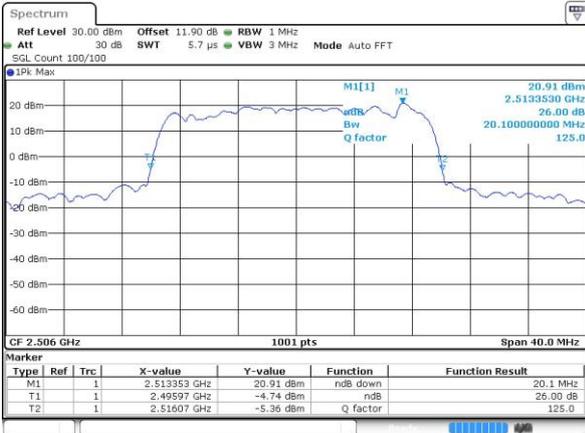


Date: 4 JAN 2019 15:19:55



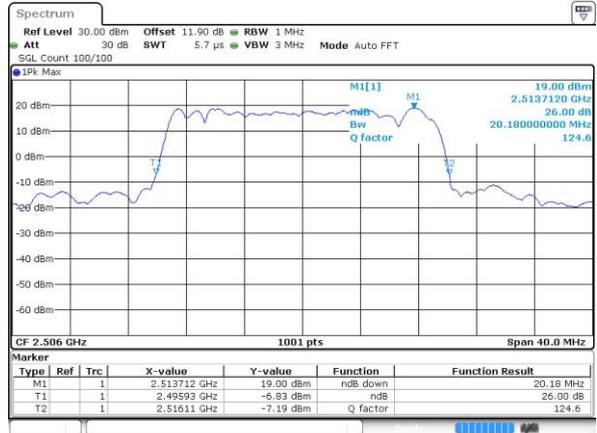
LTE Band 41

Lowest Channel / 20MHz / QPSK



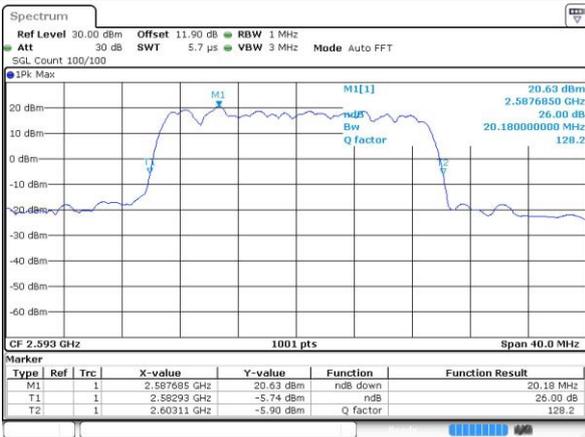
Date: 4 JAN 2019 15:20:29

Lowest Channel / 20MHz / 16QAM



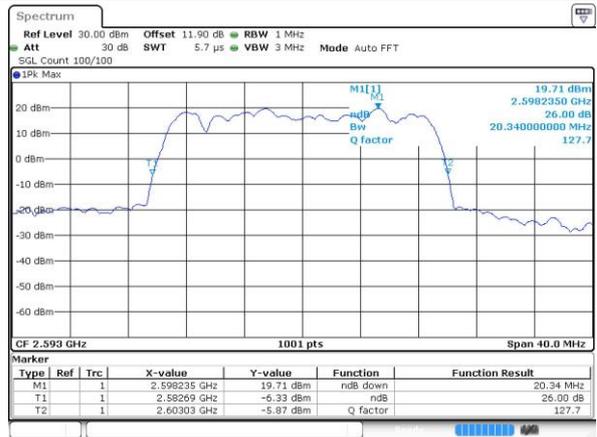
Date: 4 JAN 2019 15:20:40

Middle Channel / 20MHz / QPSK



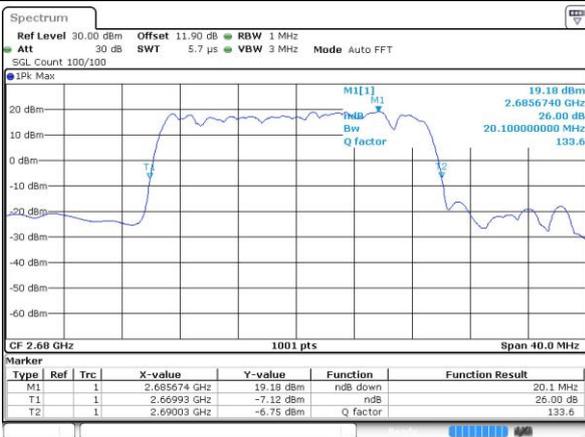
Date: 4 JAN 2019 15:21:15

Middle Channel / 20MHz / 16QAM



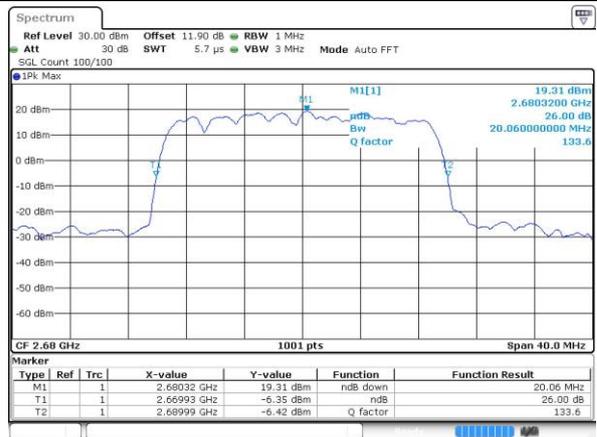
Date: 4 JAN 2019 15:21:26

Highest Channel / 20MHz / QPSK



Date: 4 JAN 2019 15:22:00

Highest Channel / 20MHz / 16QAM

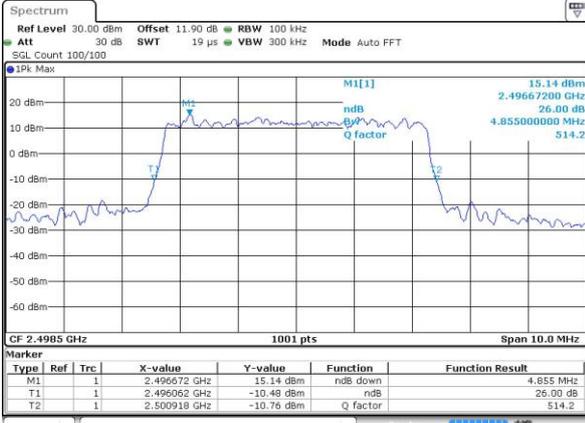


Date: 4 JAN 2019 15:22:12



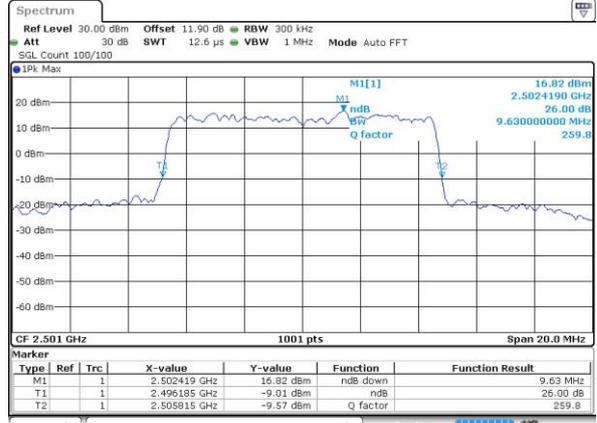
LTE Band 41

Lowest Channel / 5MHz / QPSK



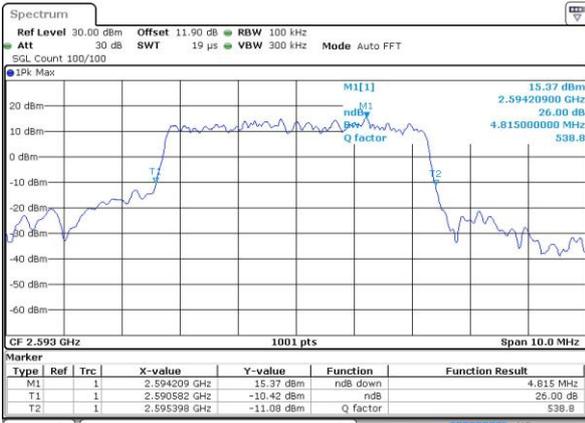
Date: 4 JAN 2019 15:22:35

Lowest Channel / 10MHz / 16QAM



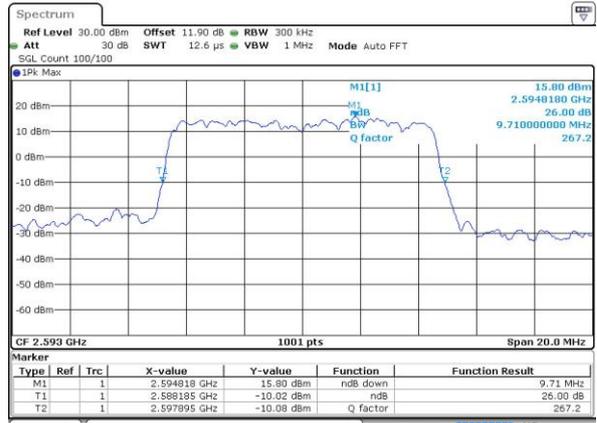
Date: 4 JAN 2019 15:23:43

Middle Channel / 5MHz / QPSK



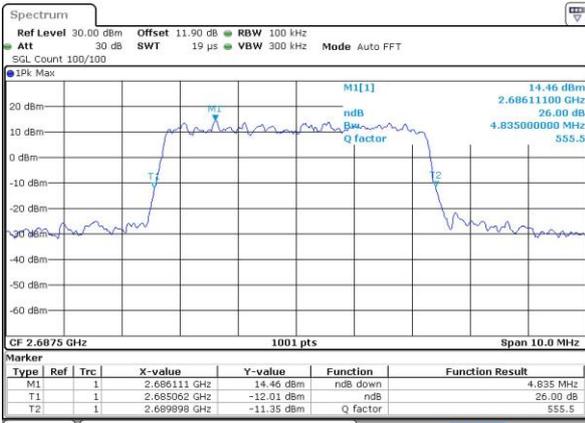
Date: 4 JAN 2019 15:22:58

Middle Channel / 10MHz / 16QAM



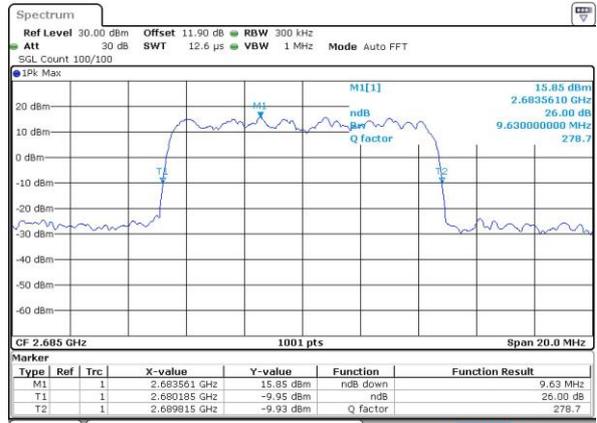
Date: 4 JAN 2019 15:24:06

Highest Channel / 5MHz / QPSK



Date: 4 JAN 2019 15:23:20

Highest Channel / 10MHz / 16QAM

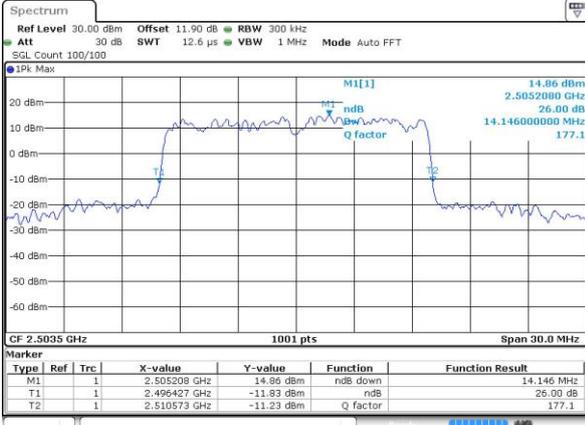


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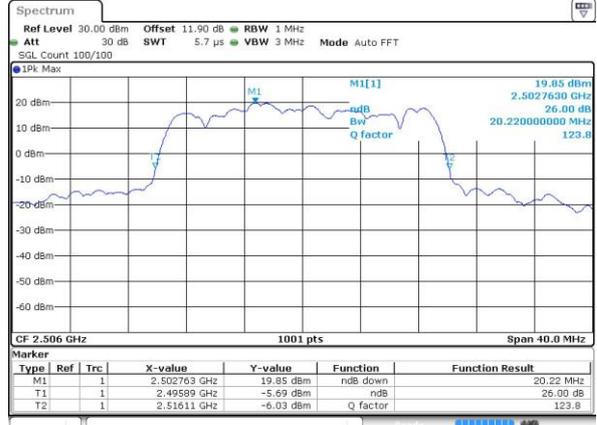
LTE Band 41

Lowest Channel / 15MHz / QPSK



Date: 4 JAN 2019 15:24:52

Lowest Channel / 20MHz / 16QAM



Date: 4 JAN 2019 15:26:01

Middle Channel / 15MHz / QPSK



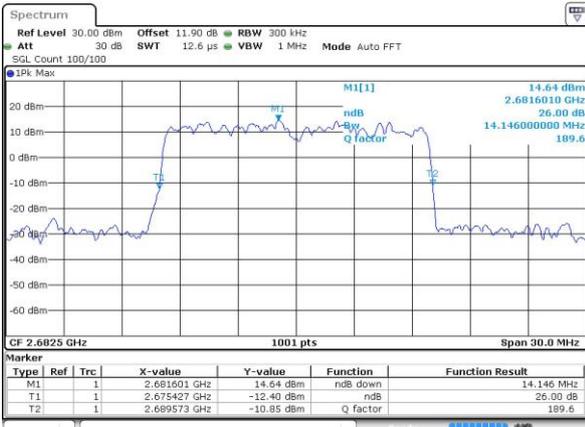
Date: 4 JAN 2019 15:25:15

Middle Channel / 20MHz / 16QAM



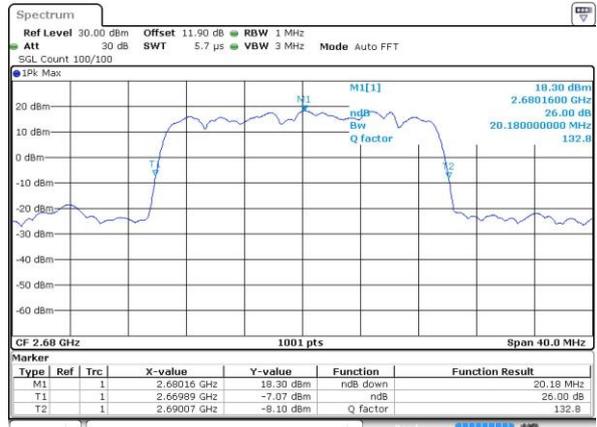
Date: 4 JAN 2019 15:26:23

Highest Channel / 15MHz / QPSK



Date: 4 JAN 2019 15:25:38

Highest Channel / 20MHz / 16QAM



Date: 4 JAN 2019 15:26:46



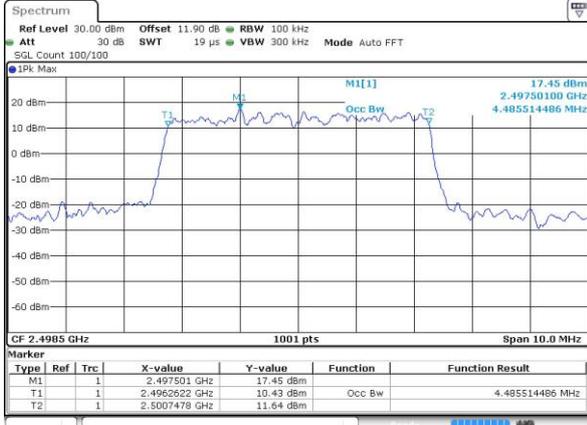
Occupied Bandwidth

Mode	LTE Band 41 : 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	-	-	-	-	4.49	4.48	9.05	8.97	13.46	13.43	18.54	18.38
Middle CH	-	-	-	-	4.47	4.49	9.01	9.05	13.4	13.49	18.38	18.26
Highest CH	-	-	-	-	4.48	4.48	9.01	9.01	13.52	13.37	18.14	18.58
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	9.05	-	13.43	-	18.30	-
Middle CH	-	-	-	-	4.50	-	9.09	-	13.46	-	18.34	-
Highest CH	-	-	-	-	4.51	-	9.03	-	13.40	-	18.38	-



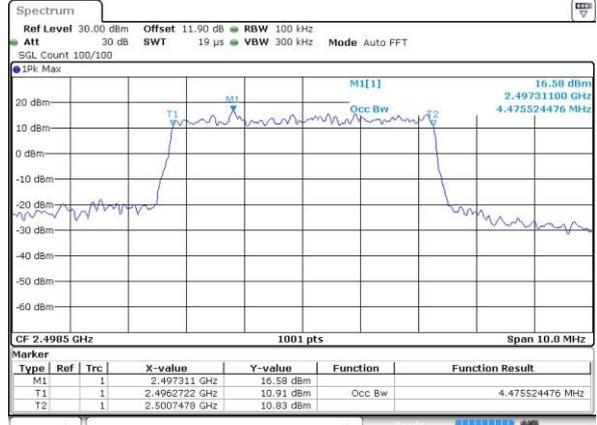
LTE Band 41

Lowest Channel / 5MHz / QPSK



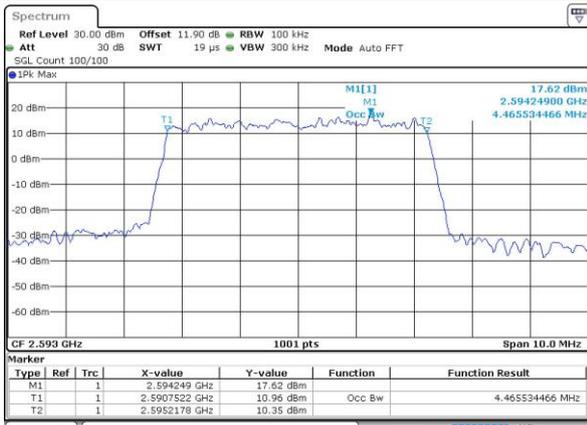
Date: 4 JAN 2019 15:13:14

Lowest Channel / 5MHz / 16QAM



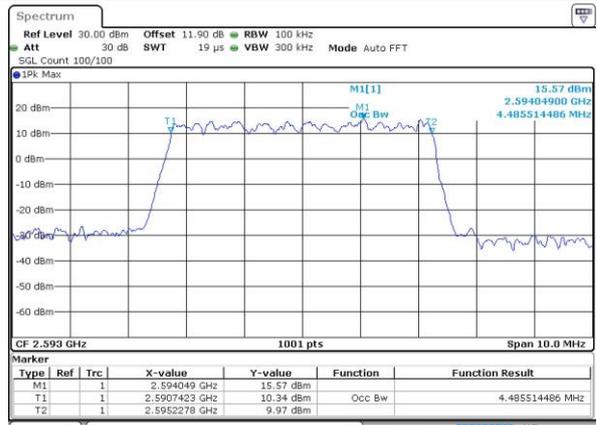
Date: 4 JAN 2019 15:13:25

Middle Channel / 5MHz / QPSK



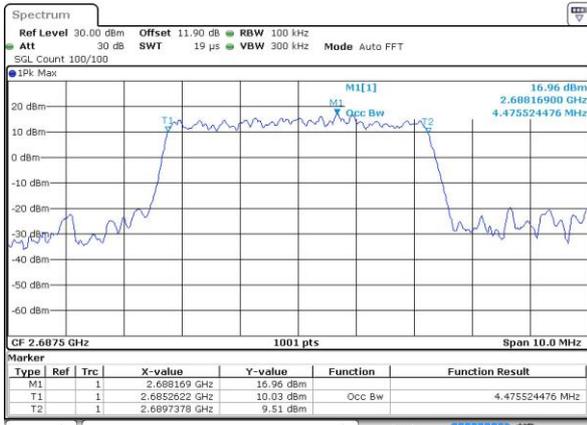
Date: 4 JAN 2019 15:13:59

Middle Channel / 5MHz / 16QAM



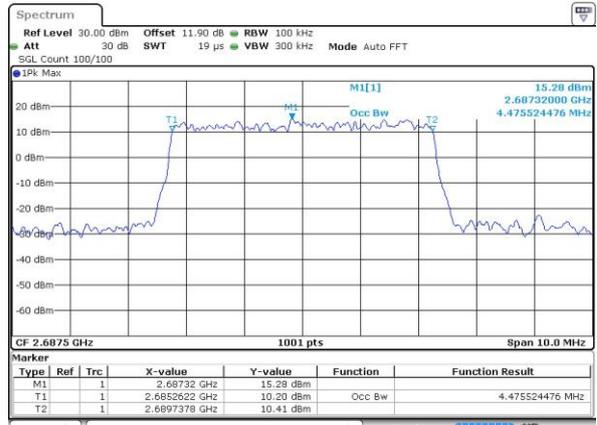
Date: 4 JAN 2019 15:14:11

Highest Channel / 5MHz / QPSK



Date: 4 JAN 2019 15:14:45

Highest Channel / 5MHz / 16QAM

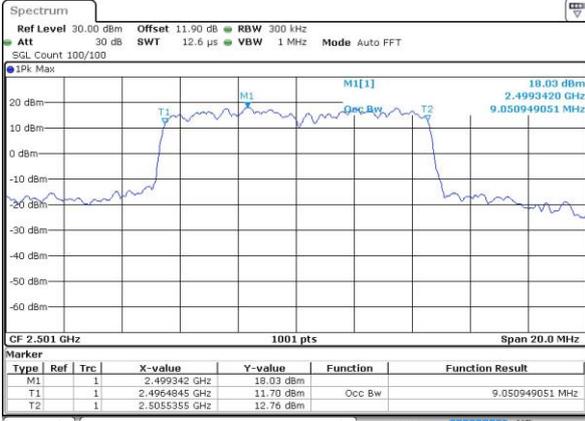


Date: 4 JAN 2019 15:14:57



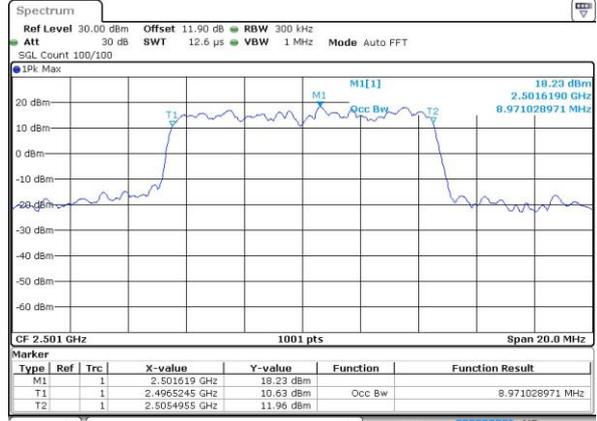
LTE Band 41

Lowest Channel / 10MHz / QPSK



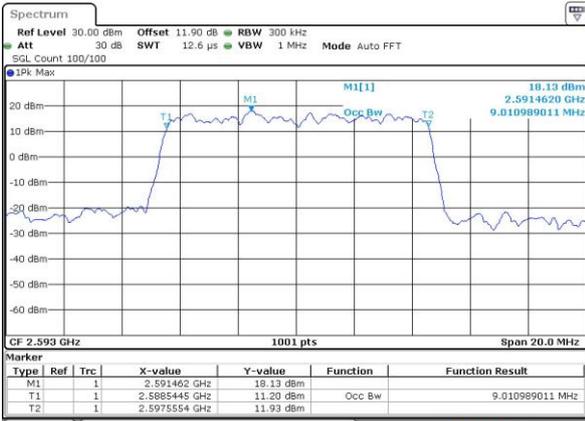
Date: 4 JAN 2019 15:15:31

Lowest Channel / 10MHz / 16QAM



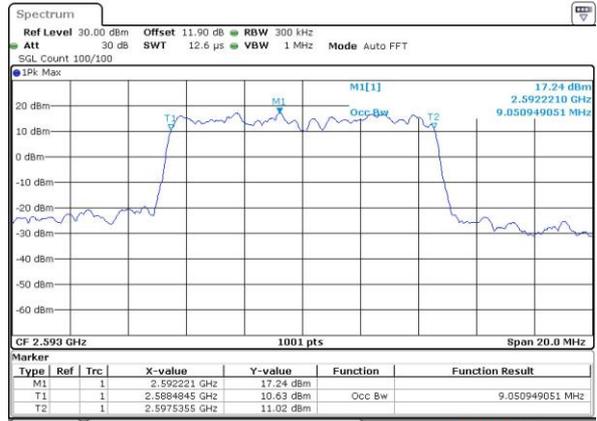
Date: 4 JAN 2019 15:15:43

Middle Channel / 10MHz / QPSK



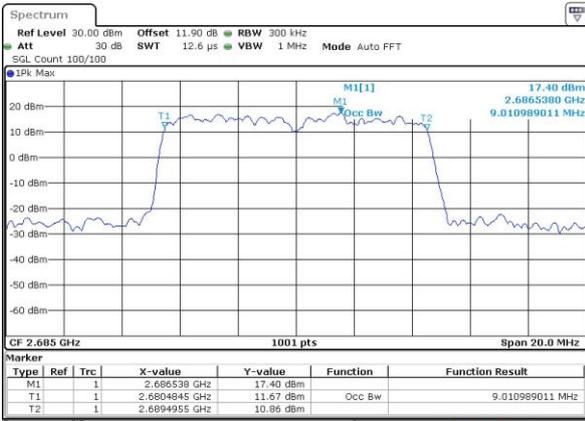
Date: 4 JAN 2019 15:16:17

Middle Channel / 10MHz / 16QAM



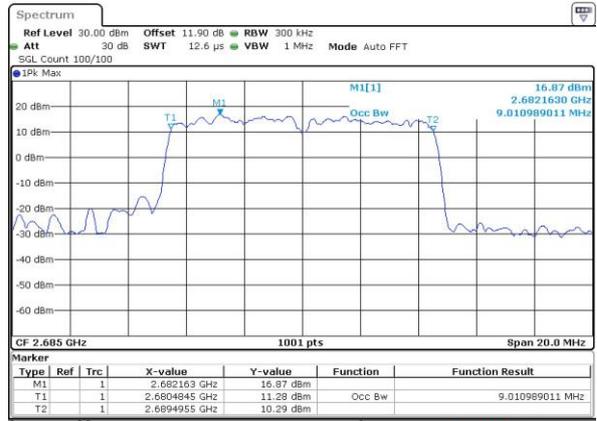
Date: 4 JAN 2019 15:16:28

Highest Channel / 10MHz / QPSK



Date: 4 JAN 2019 15:17:03

Highest Channel / 10MHz / 16QAM

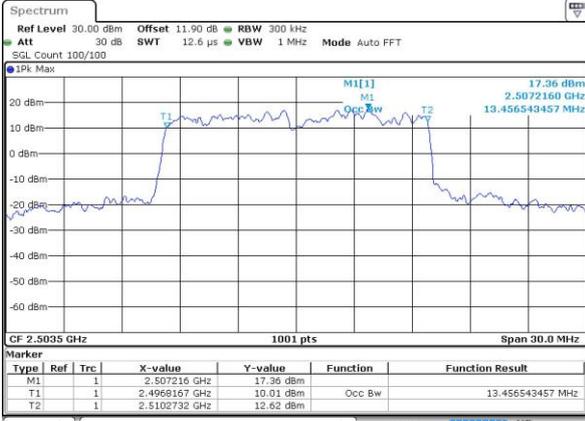


Date: 4 JAN 2019 15:17:14



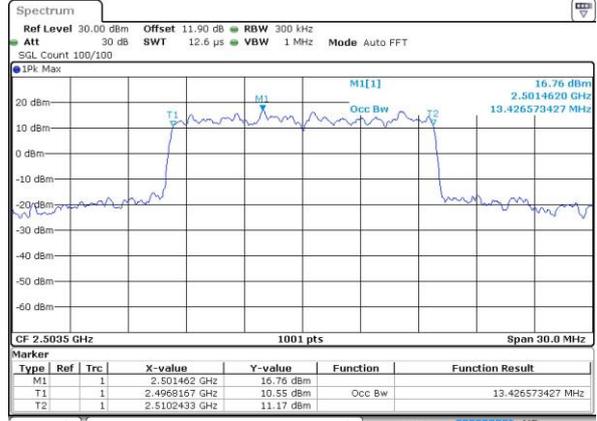
LTE Band 41

Lowest Channel / 15MHz / QPSK



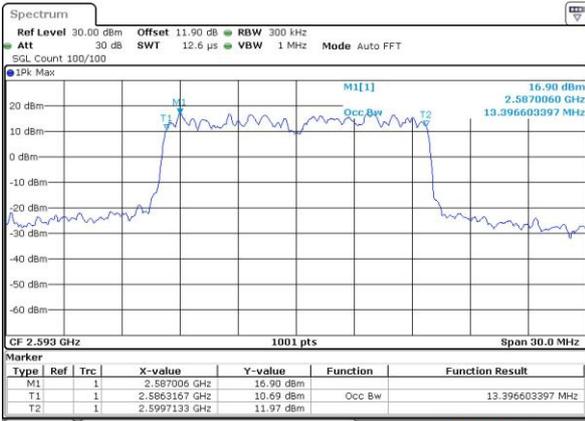
Date: 4 JAN 2019 15:17:48

Lowest Channel / 15MHz / 16QAM



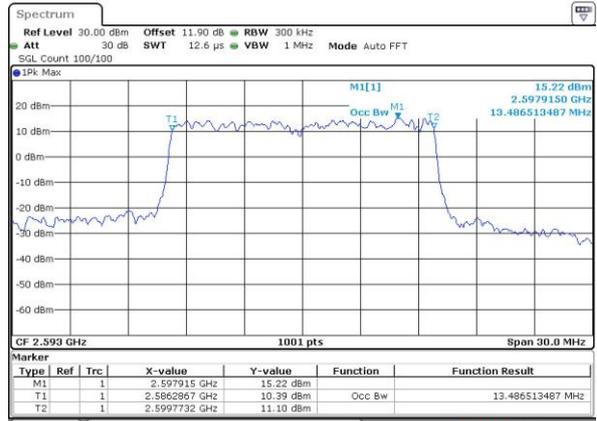
Date: 4 JAN 2019 15:18:00

Middle Channel / 15MHz / QPSK



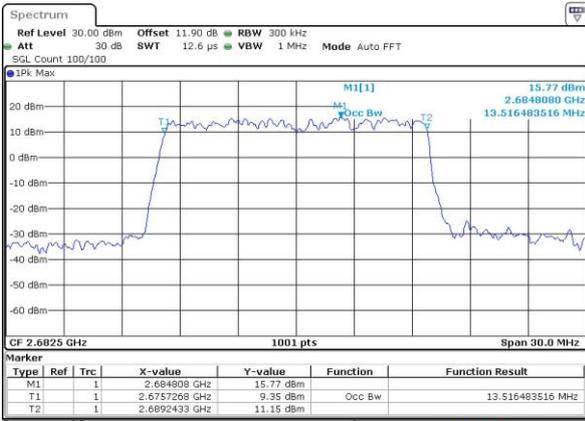
Date: 4 JAN 2019 15:18:35

Middle Channel / 15MHz / 16QAM



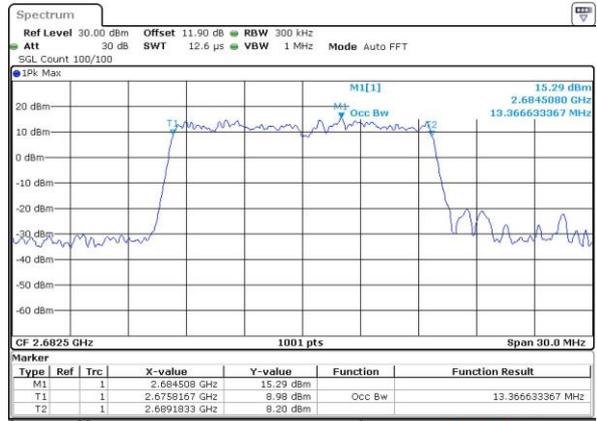
Date: 4 JAN 2019 15:18:46

Highest Channel / 15MHz / QPSK



Date: 4 JAN 2019 15:19:20

Highest Channel / 15MHz / 16QAM



Date: 4 JAN 2019 15:19:32