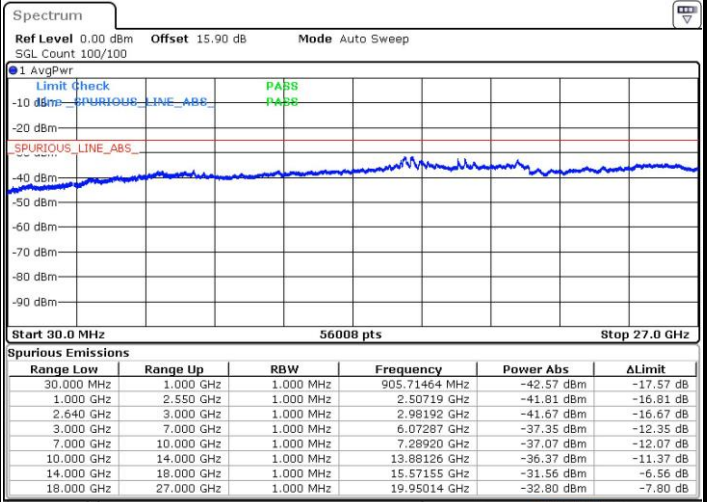
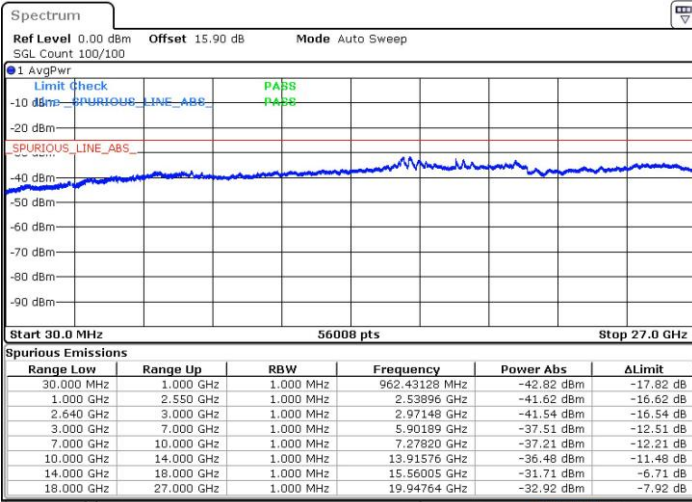




LTE Band 38 / 15MHz

Lowest Channel / 64QAM

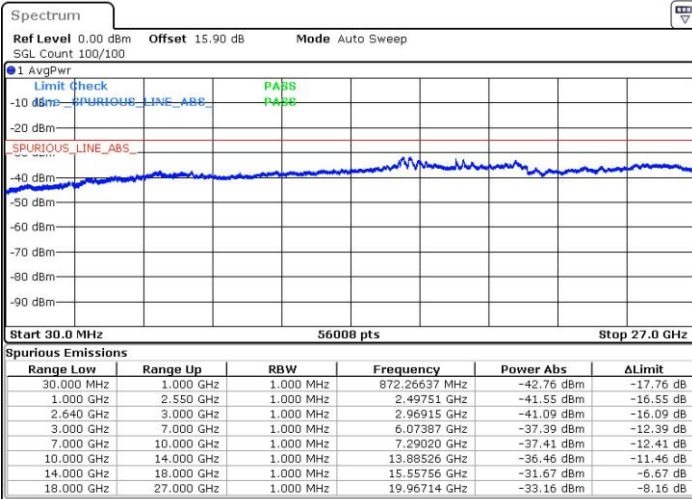
Middle Channel / 64QAM



Date: 7.NOV.2018 22:26:18

Date: 7.NOV.2018 22:27:04

Highest Channel / 64QAM



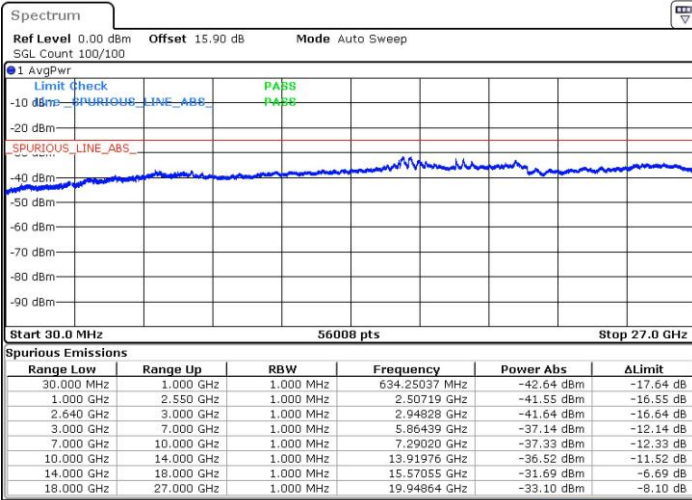
Date: 7.NOV.2018 22:27:50



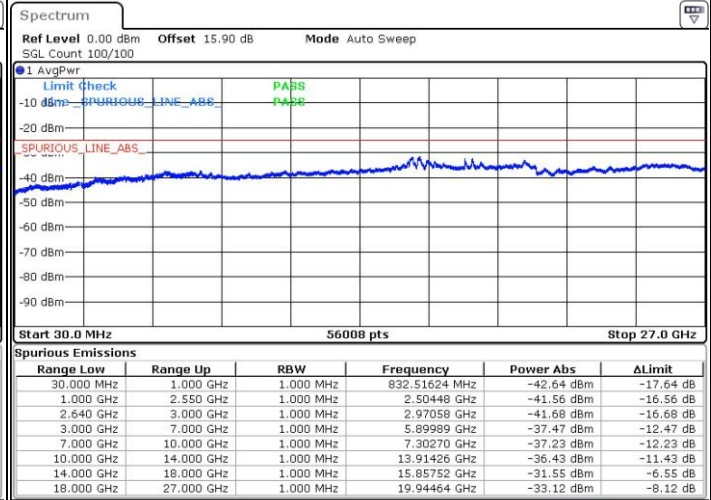
LTE Band 38 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

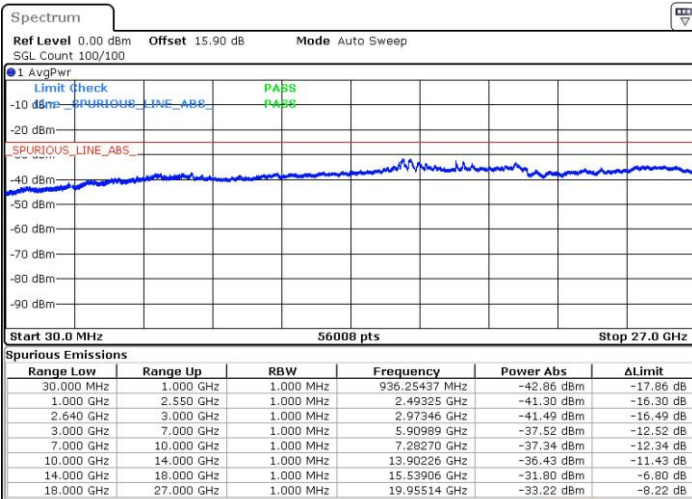


Date: 7.NOV.2018 22:28:36



Date: 7.NOV.2018 22:29:22

Highest Channel / 64QAM



Date: 7.NOV.2018 22:30:08



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0030	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0030	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 41

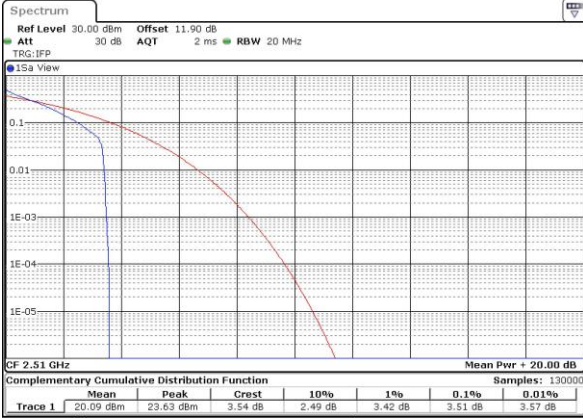
### Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.51	4.43	5.3	5.77	PASS
Middle CH	3.48	4.23	5.19	5.59	
Highest CH	3.54	4.26	5.19	5.62	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.58	6.32	-	-	PASS
Middle CH	5.83	6.20	-	-	
Highest CH	6.06	6.23	-	-	



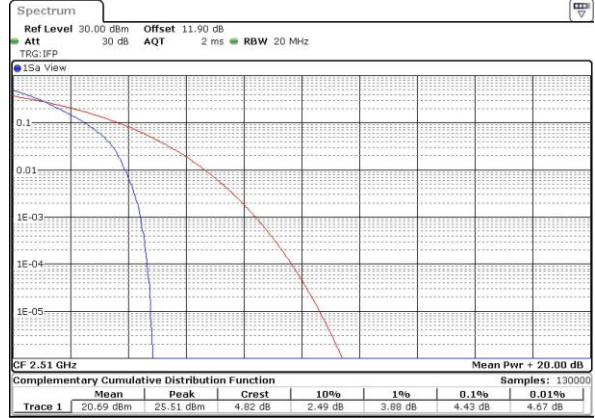
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 7,NOV,2018 17:23:31

Lowest Channel / Full RB



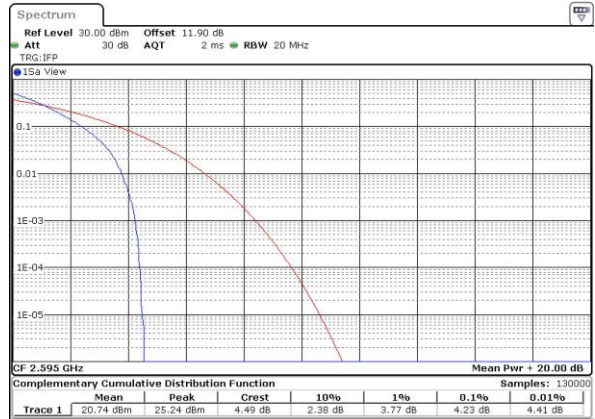
Date: 7,NOV,2018 17:23:51

Middle Channel / 1RB



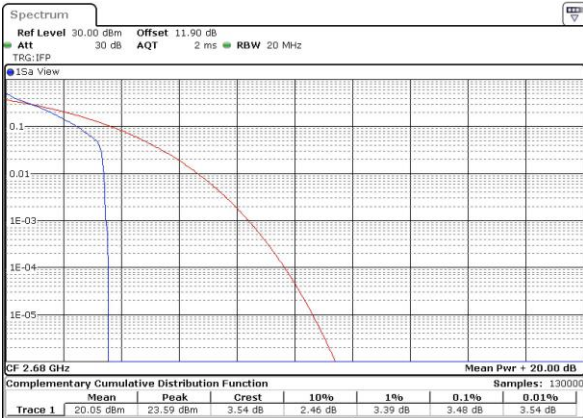
Date: 7,NOV,2018 17:24:08

Middle Channel / Full RB



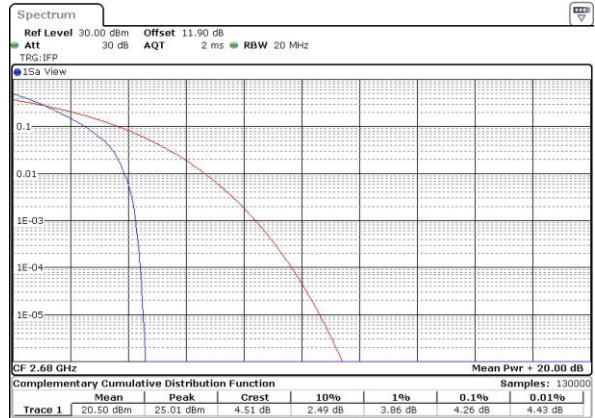
Date: 7,NOV,2018 17:24:25

Highest Channel / 1RB



Date: 7,NOV,2018 17:24:44

Highest Channel / Full RB

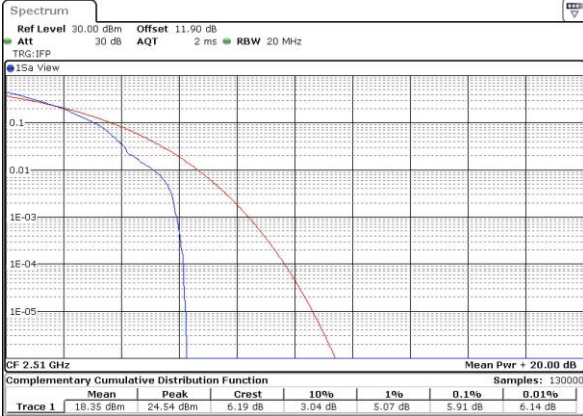


Date: 7,NOV,2018 17:25:33



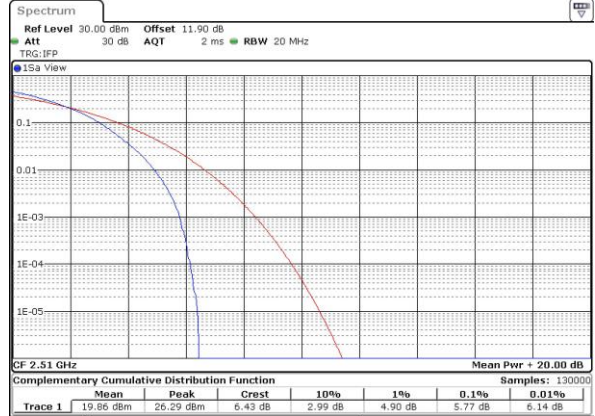
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



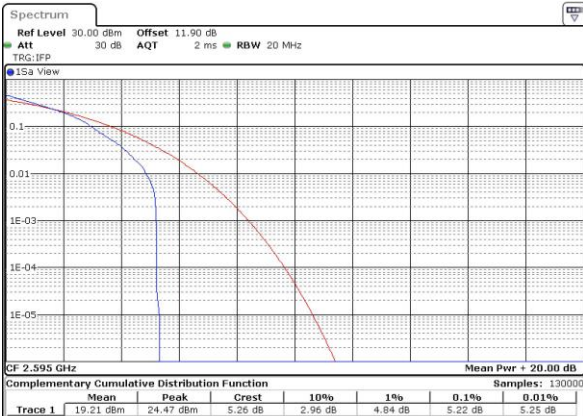
Date: 7,NOV,2018 17:20:49

Lowest Channel / Full RB



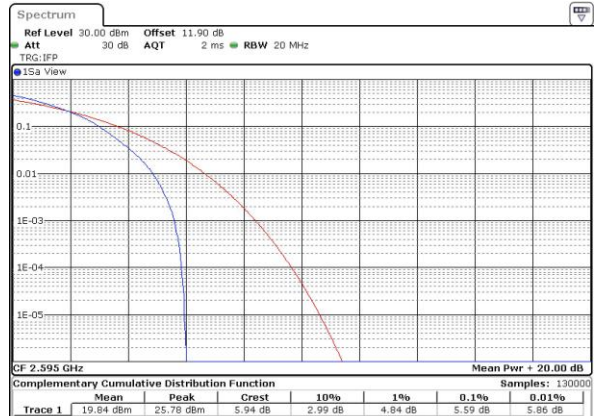
Date: 7,NOV,2018 17:21:27

Middle Channel / 1RB



Date: 7,NOV,2018 17:21:46

Middle Channel / Full RB



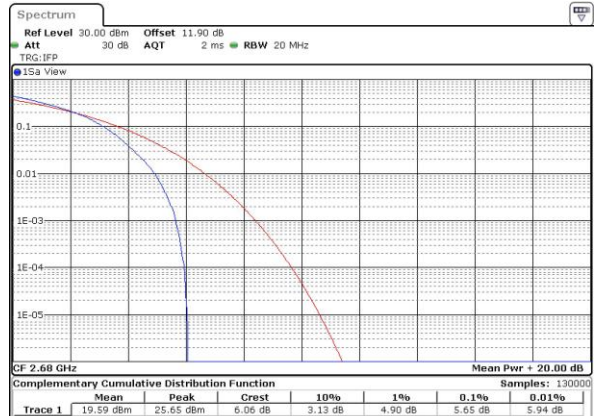
Date: 7,NOV,2018 17:22:15

Highest Channel / 1RB



Date: 7,NOV,2018 17:22:48

Highest Channel / Full RB



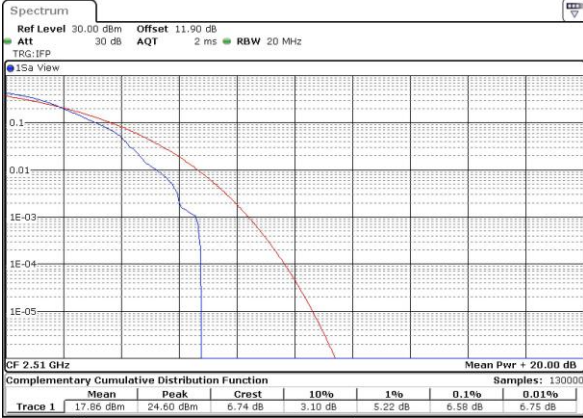
Date: 7,NOV,2018 17:23:02





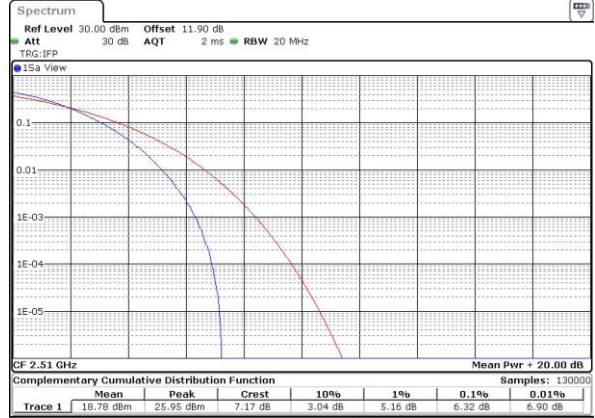
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 7,NOV,2018 17:12:37

Lowest Channel / Full RB



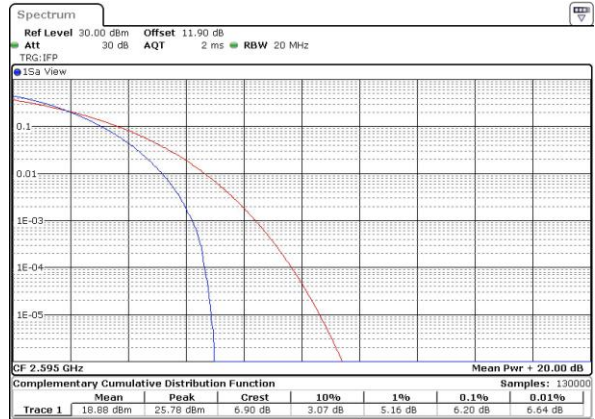
Date: 7,NOV,2018 17:12:55

Middle Channel / 1RB



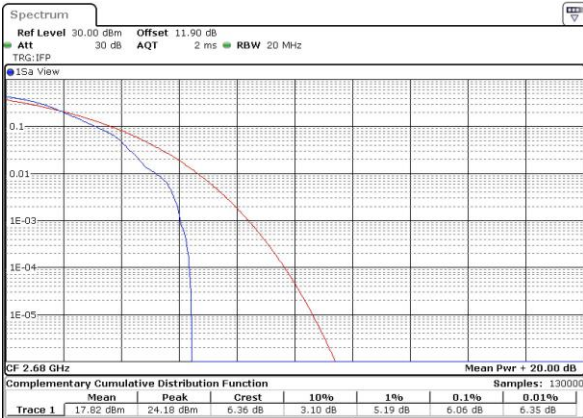
Date: 7,NOV,2018 17:14:25

Middle Channel / Full RB



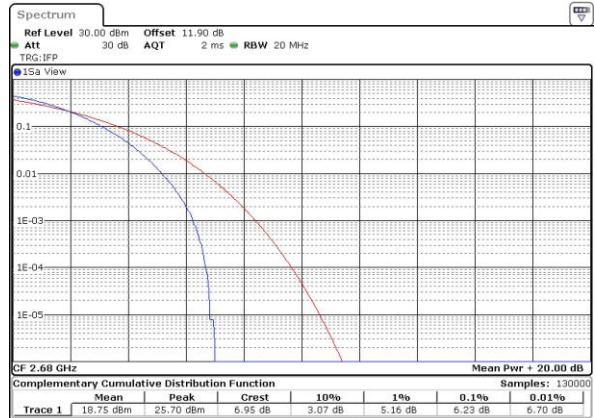
Date: 7,NOV,2018 17:14:45

Highest Channel / 1RB



Date: 7,NOV,2018 17:16:24

Highest Channel / Full RB



Date: 7,NOV,2018 17:18:03



**26dB Bandwidth**

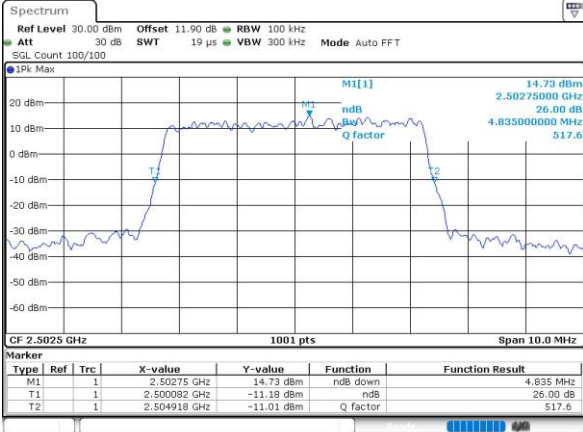
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.95	4.85	9.73	9.79	14.36	14.45	20.10	20.18
Middle CH	-	-	-	-	4.89	4.83	9.65	9.93	14.45	14.39	20.18	20.18
Highest CH	-	-	-	-	4.87	4.82	9.73	9.63	14.36	14.36	20.14	19.98
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.91	-	9.83	-	14.33	-	20.06	-
Middle CH	-	-	-	-	4.91	-	9.61	-	14.36	-	20.34	-
Highest CH	-	-	-	-	4.92	-	9.79	-	14.24	-	20.14	-





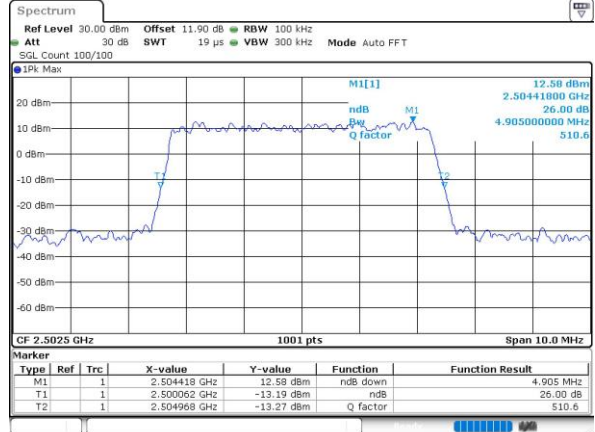
LTE Band 41

Lowest Channel / 5MHz / QPSK



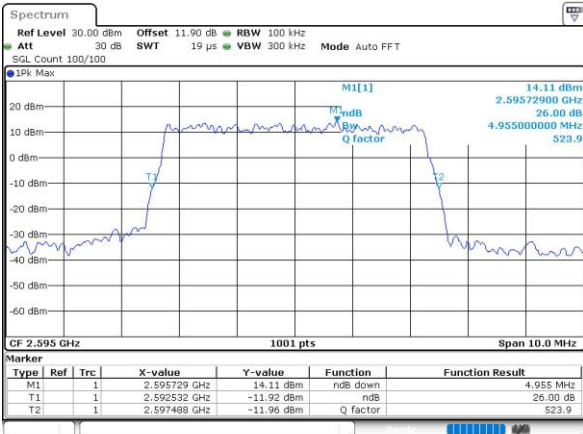
Date: 7.NOV.2018 16:58:07

Lowest Channel / 5MHz / 16QAM



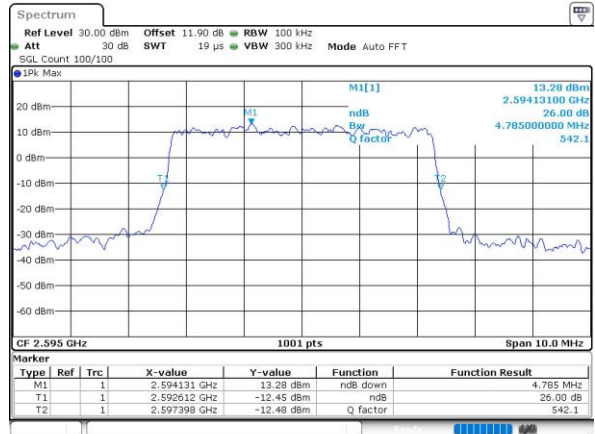
Date: 7.NOV.2018 16:58:18

Middle Channel / 5MHz / QPSK



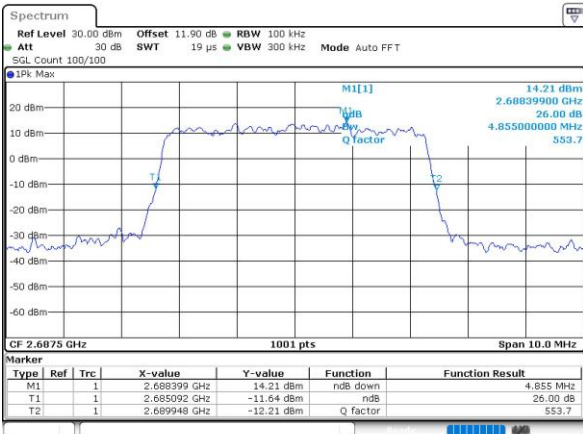
Date: 7.NOV.2018 16:58:53

Middle Channel / 5MHz / 16QAM



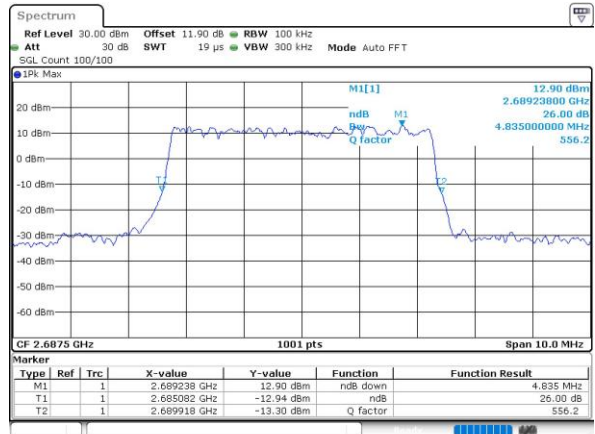
Date: 7.NOV.2018 16:59:04

Highest Channel / 5MHz / QPSK



Date: 7.NOV.2018 16:59:38

Highest Channel / 5MHz / 16QAM

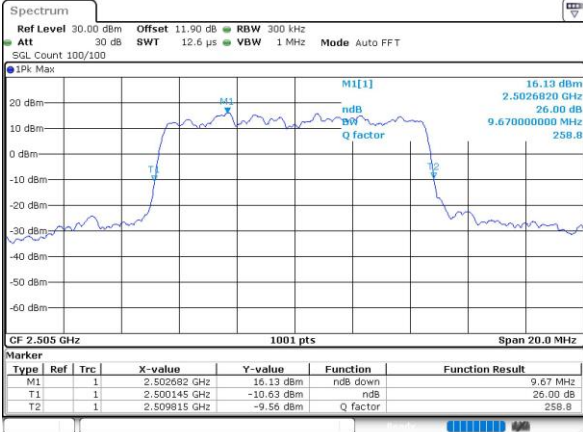


Date: 7.NOV.2018 16:59:49



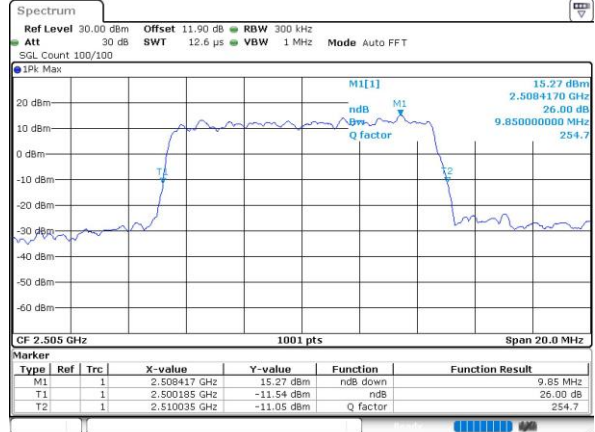
LTE Band 41

Lowest Channel / 10MHz / QPSK



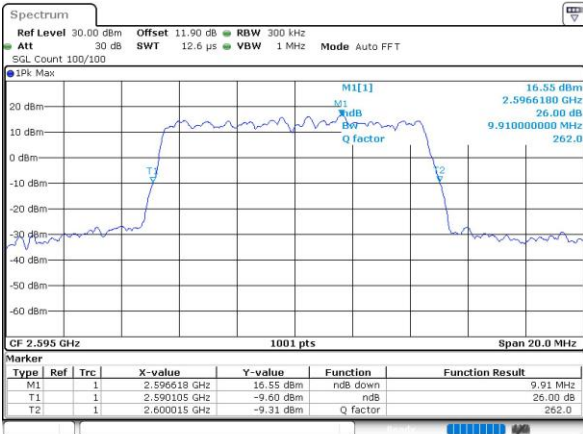
Date: 7,NOV,2018 17:00:23

Lowest Channel / 10MHz / 16QAM



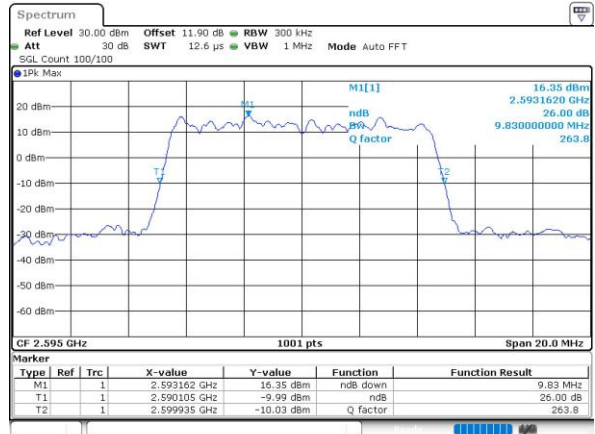
Date: 7,NOV,2018 17:00:35

Middle Channel / 10MHz / QPSK



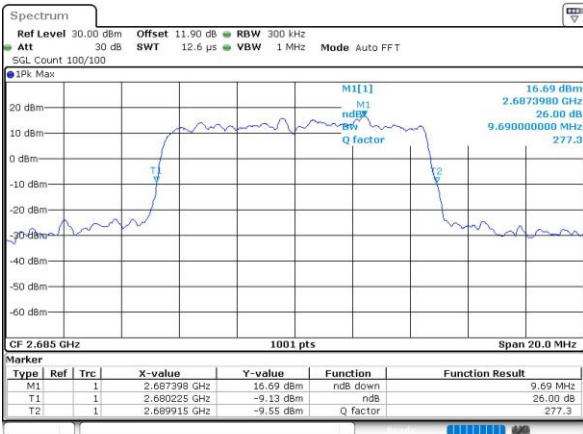
Date: 7,NOV,2018 17:01:09

Middle Channel / 10MHz / 16QAM



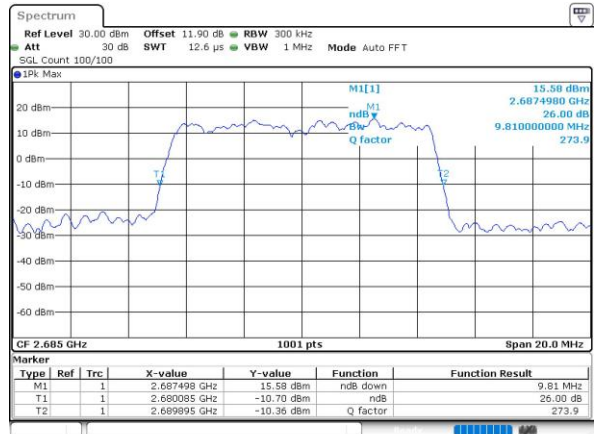
Date: 7,NOV,2018 17:01:20

Highest Channel / 10MHz / QPSK



Date: 7,NOV,2018 17:01:54

Highest Channel / 10MHz / 16QAM

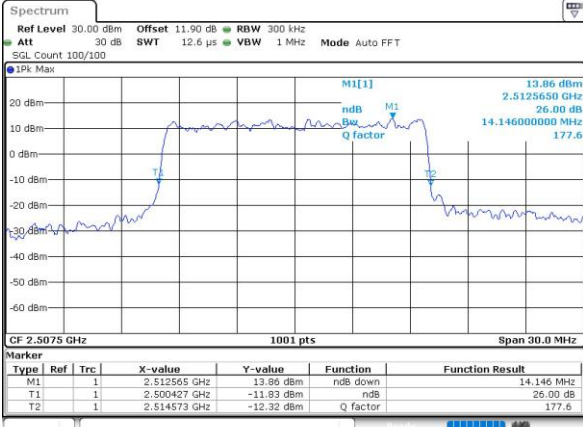


Date: 7,NOV,2018 17:28:04



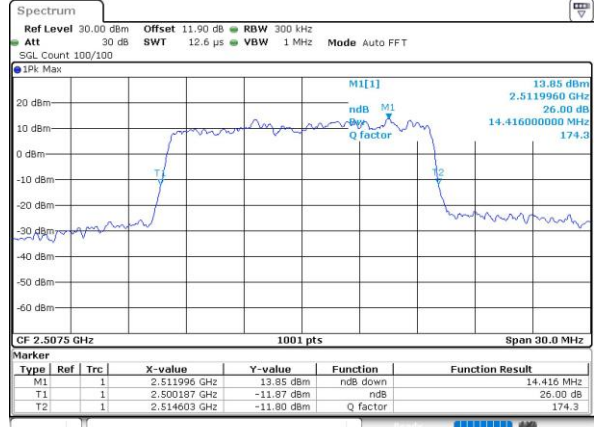
LTE Band 41

Lowest Channel / 15MHz / QPSK



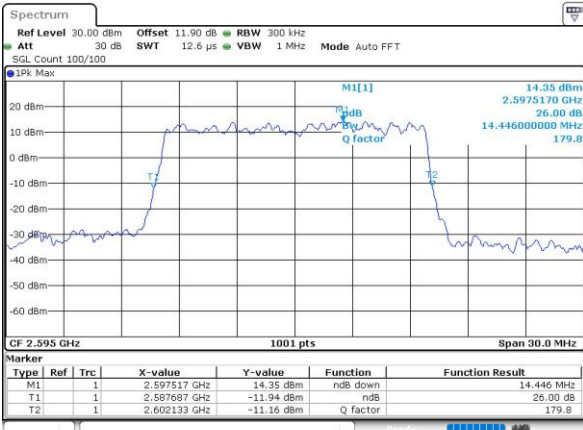
Date: 7,NOV,2018 17:02:19

Lowest Channel / 15MHz / 16QAM



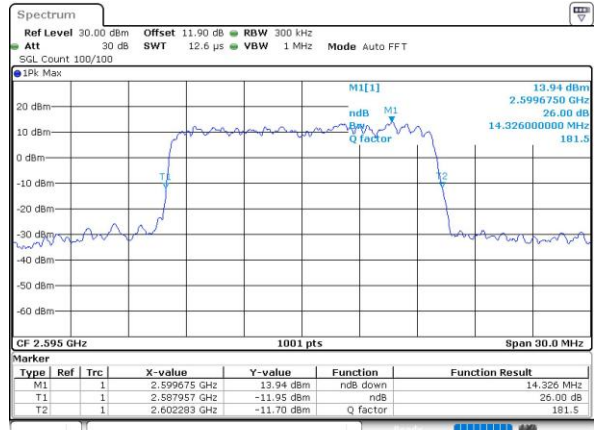
Date: 7,NOV,2018 17:02:51

Middle Channel / 15MHz / QPSK



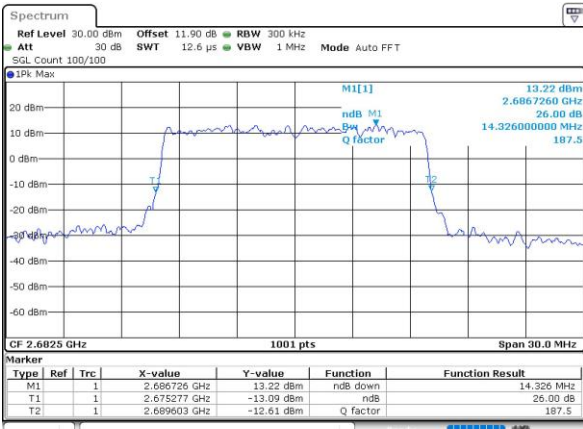
Date: 7,NOV,2018 17:03:25

Middle Channel / 15MHz / 16QAM



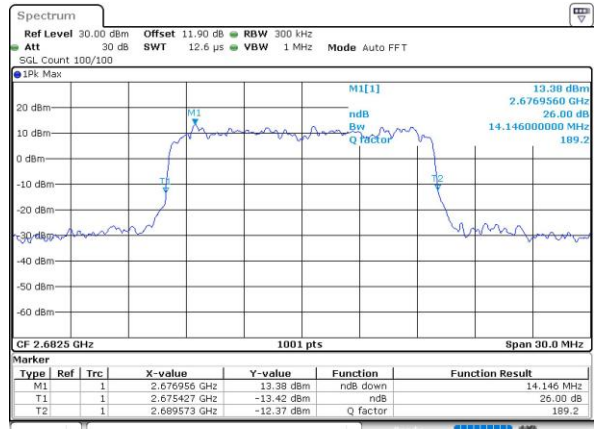
Date: 7,NOV,2018 17:03:36

Highest Channel / 15MHz / QPSK



Date: 7,NOV,2018 17:04:10

Highest Channel / 15MHz / 16QAM

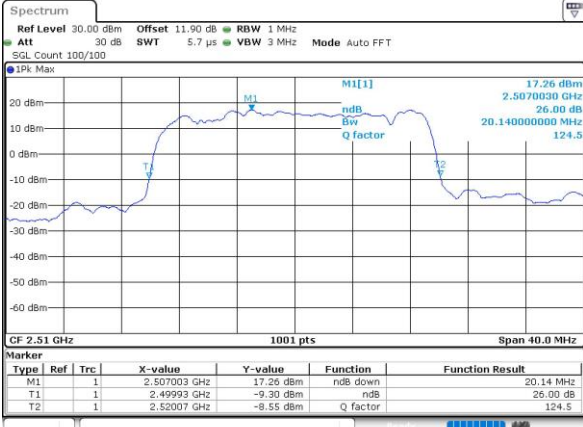


Date: 7,NOV,2018 17:04:22



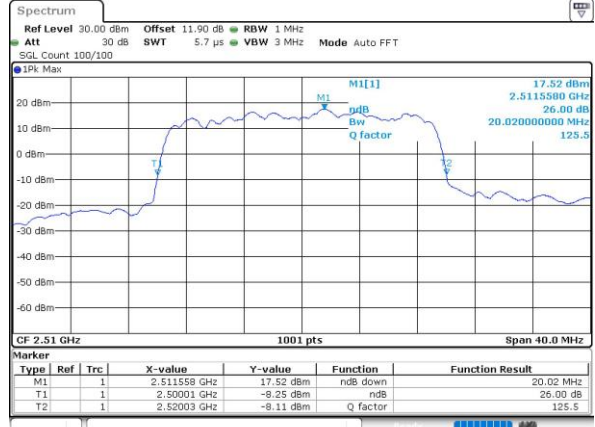
LTE Band 41

Lowest Channel / 20MHz / QPSK



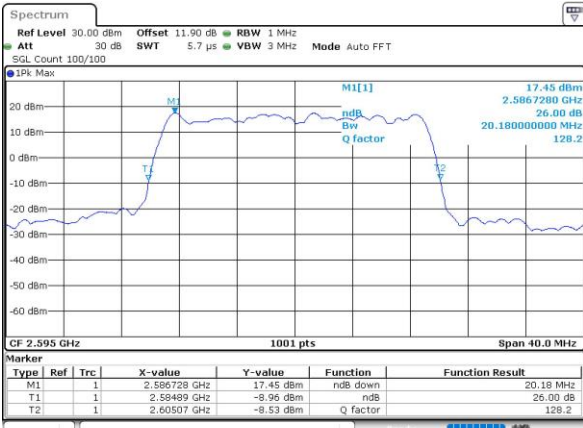
Date: 7,NOV,2018 17:04:56

Lowest Channel / 20MHz / 16QAM



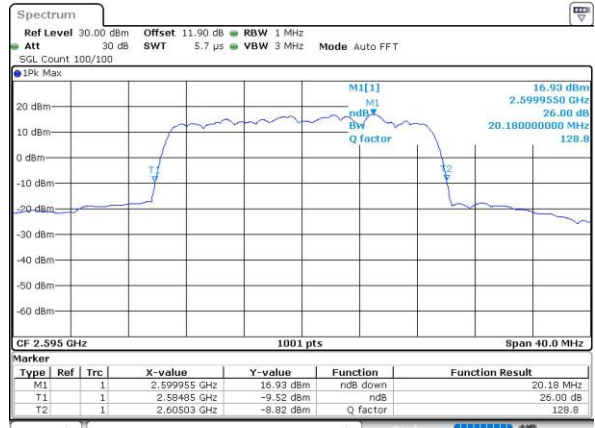
Date: 7,NOV,2018 17:05:07

Middle Channel / 20MHz / QPSK



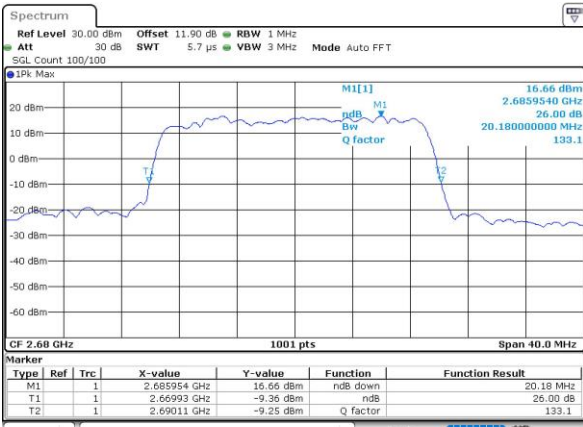
Date: 7,NOV,2018 17:05:41

Middle Channel / 20MHz / 16QAM



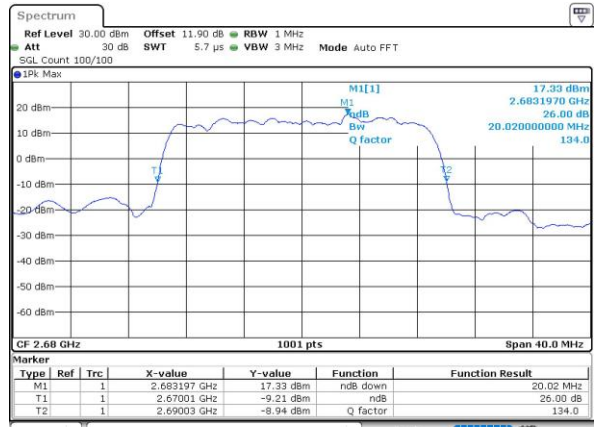
Date: 7,NOV,2018 17:05:52

Highest Channel / 20MHz / QPSK



Date: 7,NOV,2018 17:06:26

Highest Channel / 20MHz / 16QAM

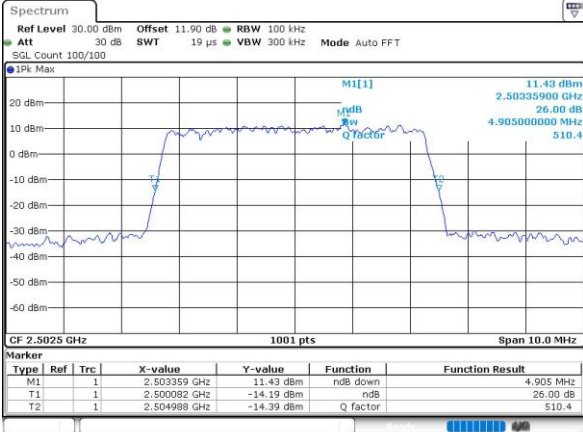


Date: 7,NOV,2018 17:06:38



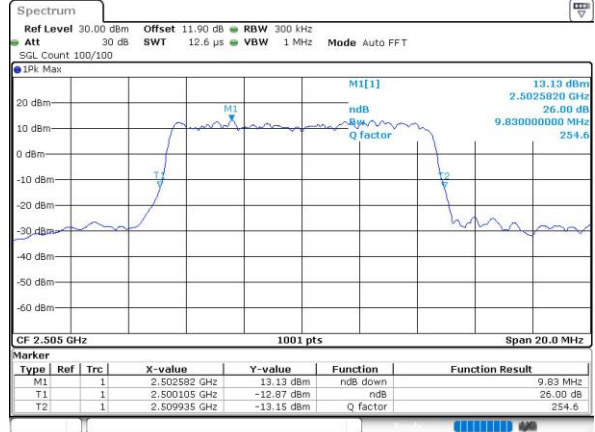
LTE Band 41

Lowest Channel / 5MHz / QPSK



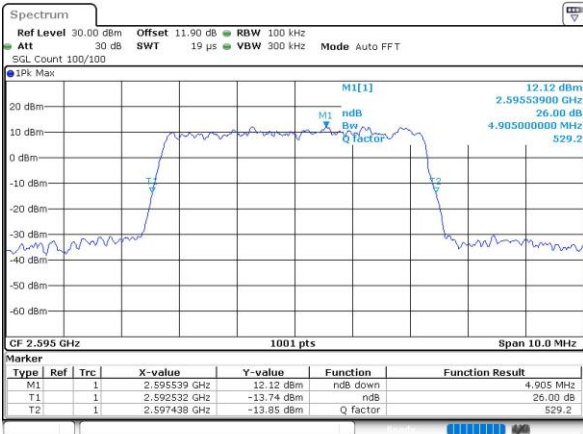
Date: 7.NOV.2018 17:07:00

Lowest Channel / 10MHz / 16QAM



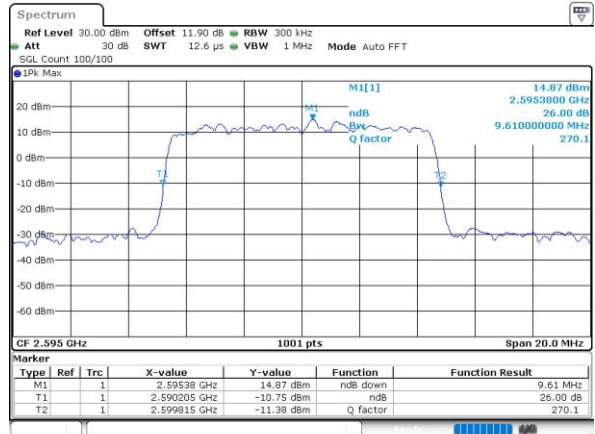
Date: 7.NOV.2018 17:08:08

Middle Channel / 5MHz / QPSK



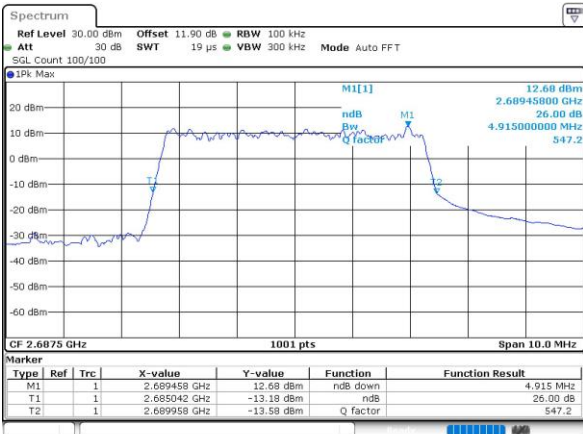
Date: 7.NOV.2018 17:07:23

Middle Channel / 10MHz / 16QAM



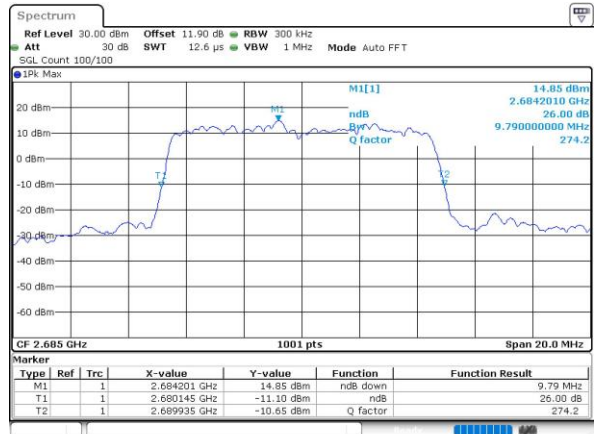
Date: 7.NOV.2018 17:08:31

Highest Channel / 5MHz / QPSK



Date: 7.NOV.2018 17:07:46

Highest Channel / 10MHz / 16QAM



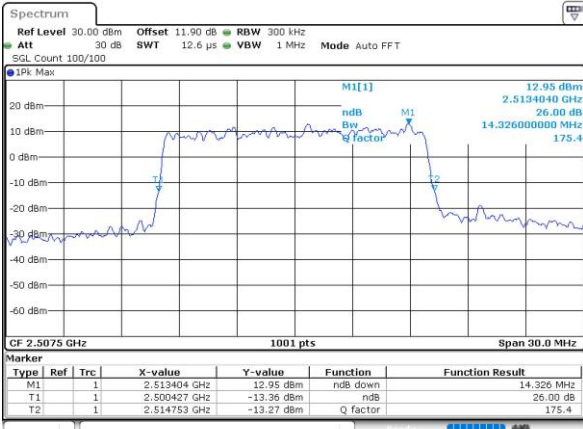
Date: 7.NOV.2018 17:28:17





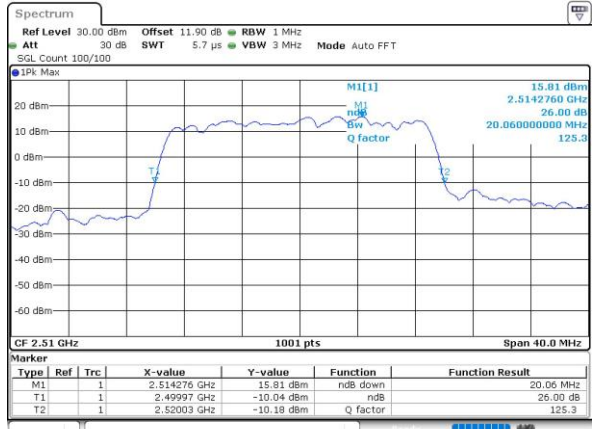
LTE Band 41

Lowest Channel / 15MHz / QPSK



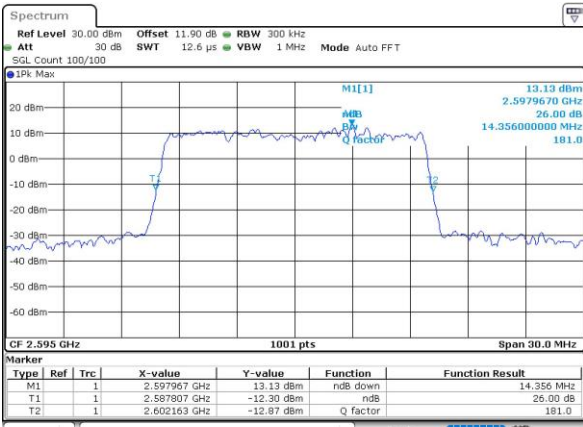
Date: 7.NOV.2018 17:09:05

Lowest Channel / 20MHz / 16QAM



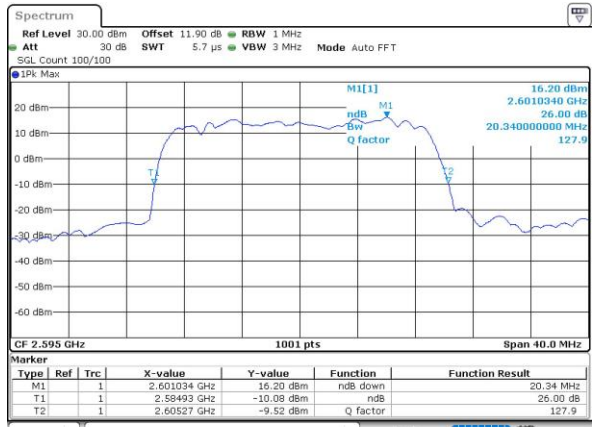
Date: 7.NOV.2018 17:10:25

Middle Channel / 15MHz / QPSK



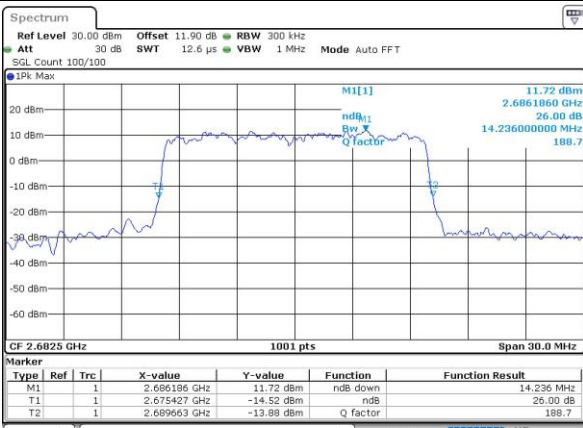
Date: 7.NOV.2018 17:09:28

Middle Channel / 20MHz / 16QAM



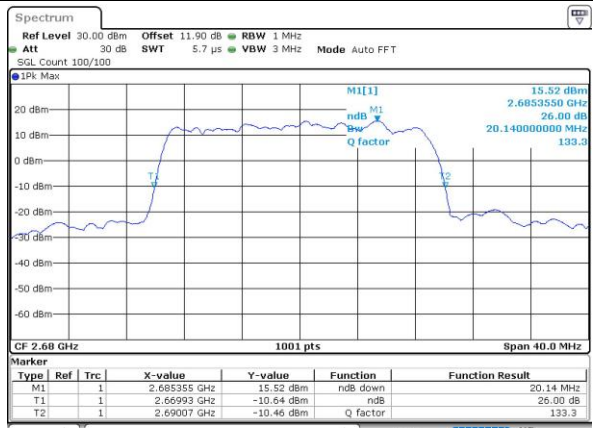
Date: 7.NOV.2018 17:10:46

Highest Channel / 15MHz / QPSK



Date: 7.NOV.2018 17:09:51

Highest Channel / 20MHz / 16QAM



Date: 7.NOV.2018 17:11:10





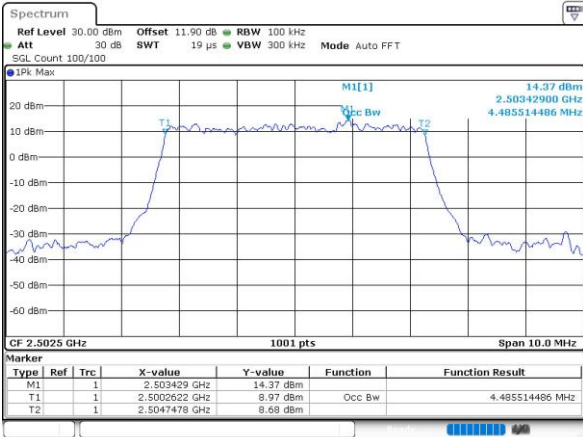
**Occupied Bandwidth**

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	-	-	-	-	4.48	4.49	9.01	8.97	13.43	13.37	18.14	18.42
Middle CH	-	-	-	-	4.49	4.49	9.01	9.01	13.46	13.4	18.26	18.34
Highest CH	-	-	-	-	4.49	4.49	9.03	9.01	13.46	13.43	18.34	18.1
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	9.03	-	13.46	-	18.50	-
Middle CH	-	-	-	-	4.49	-	9.07	-	13.40	-	18.38	-
Highest CH	-	-	-	-	4.48	-	9.05	-	13.43	-	18.30	-



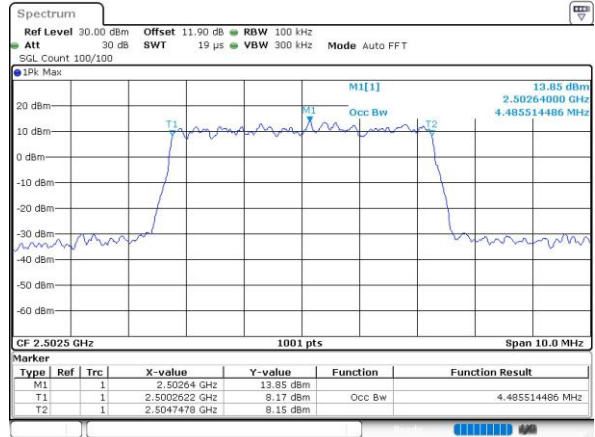
LTE Band 41

Lowest Channel / 5MHz / QPSK



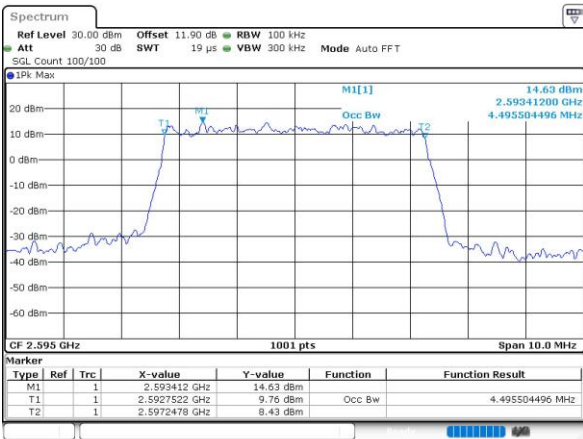
Date: 7,NOV,2018 16:57:44

Lowest Channel / 5MHz / 16QAM



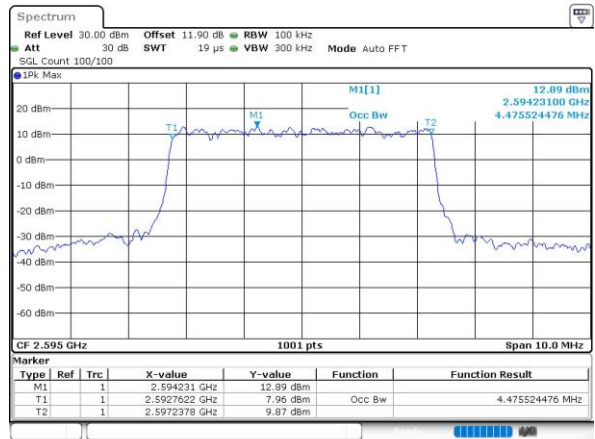
Date: 7,NOV,2018 16:57:55

Middle Channel / 5MHz / QPSK



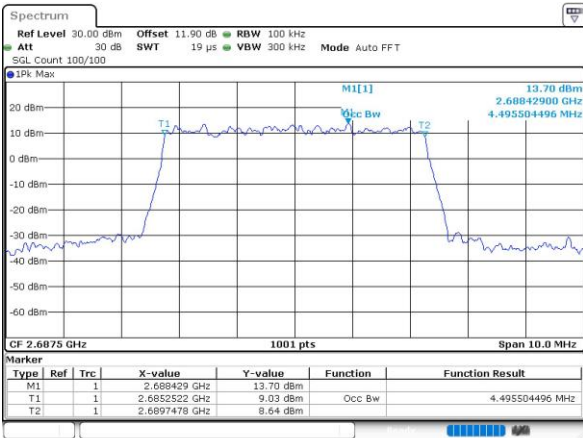
Date: 7,NOV,2018 16:58:30

Middle Channel / 5MHz / 16QAM



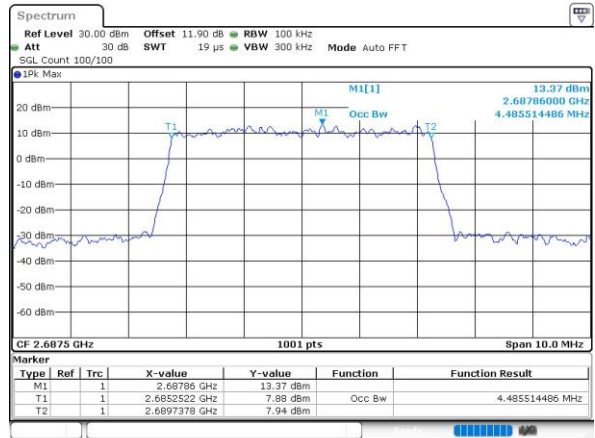
Date: 7,NOV,2018 16:58:41

Highest Channel / 5MHz / QPSK



Date: 7,NOV,2018 16:59:15

Highest Channel / 5MHz / 16QAM

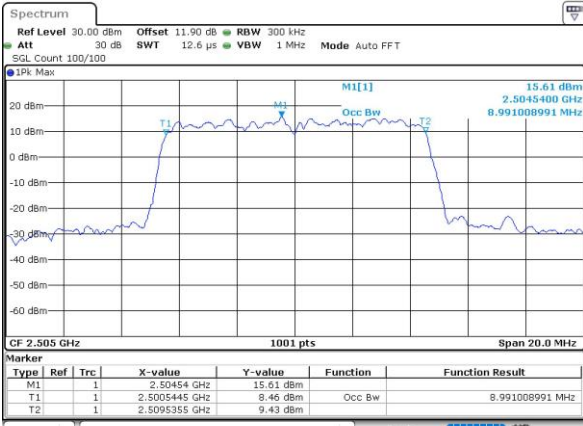


Date: 7,NOV,2018 16:59:27



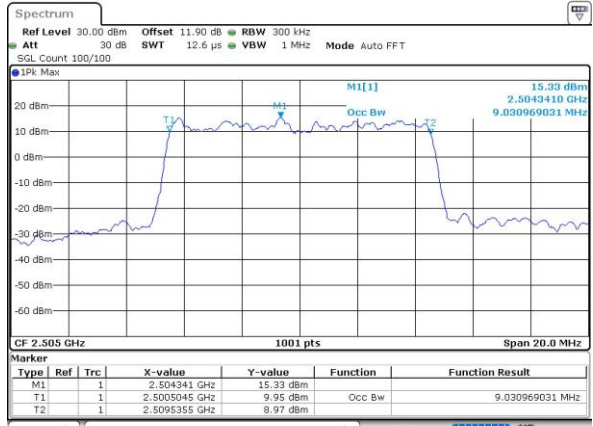
LTE Band 41

Lowest Channel / 10MHz / QPSK



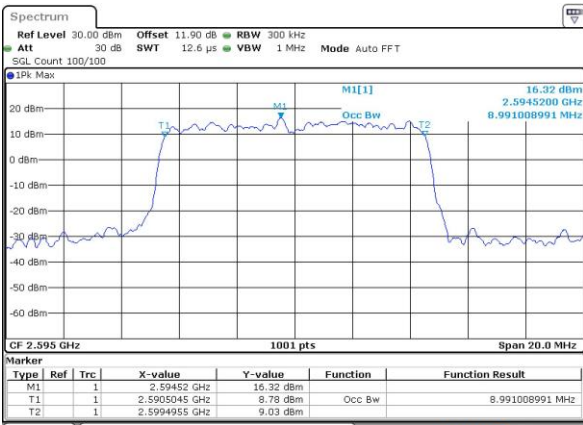
Date: 7,NOV,2018 17:00:01

Lowest Channel / 10MHz / 16QAM



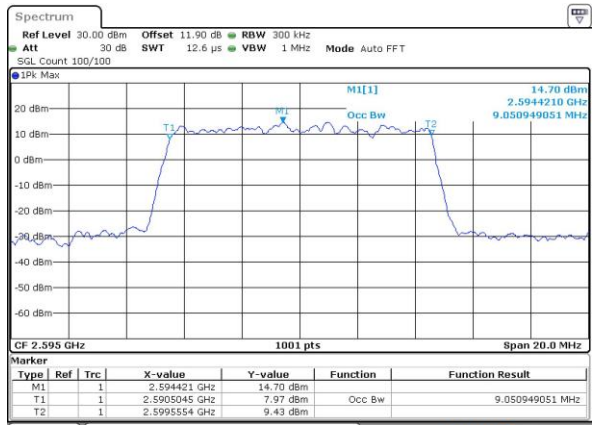
Date: 7,NOV,2018 17:00:12

Middle Channel / 10MHz / QPSK



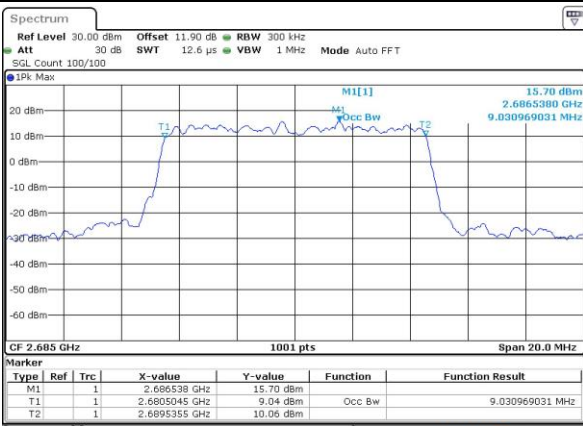
Date: 7,NOV,2018 17:00:46

Middle Channel / 10MHz / 16QAM



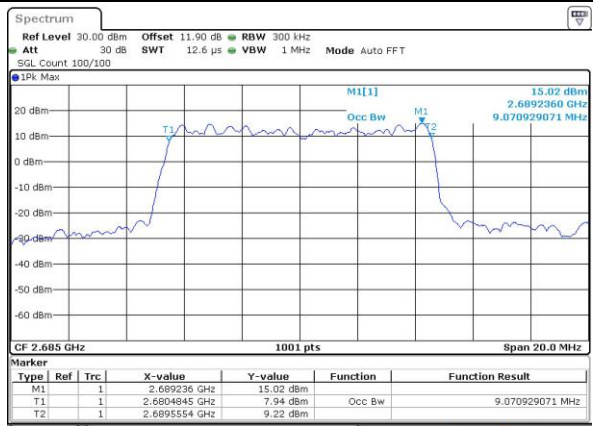
Date: 7,NOV,2018 17:00:57

Highest Channel / 10MHz / QPSK



Date: 7,NOV,2018 17:01:31

Highest Channel / 10MHz / 16QAM

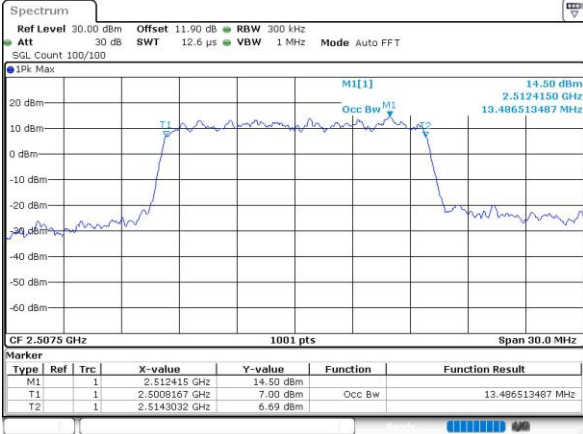


Date: 7,NOV,2018 17:01:43



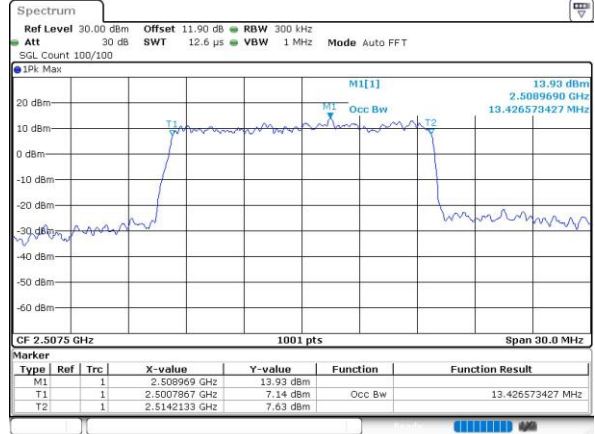
LTE Band 41

Lowest Channel / 15MHz / QPSK



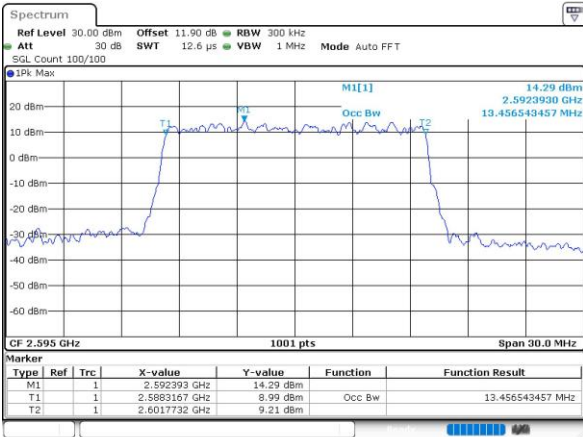
Date: 7,NOV,2018 17:02:17

Lowest Channel / 15MHz / 16QAM



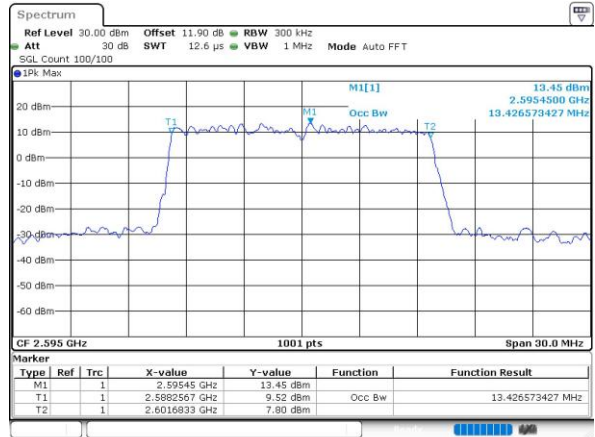
Date: 7,NOV,2018 17:02:28

Middle Channel / 15MHz / QPSK



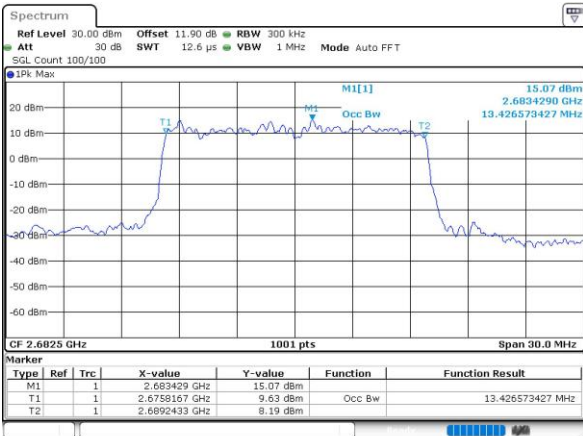
Date: 7,NOV,2018 17:03:02

Middle Channel / 15MHz / 16QAM



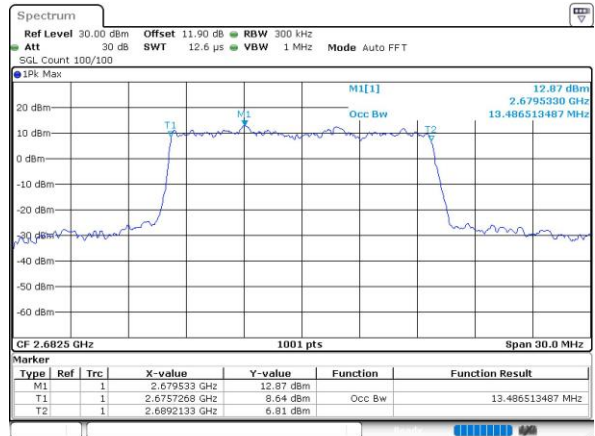
Date: 7,NOV,2018 17:03:14

Highest Channel / 15MHz / QPSK



Date: 7,NOV,2018 17:03:48

Highest Channel / 15MHz / 16QAM

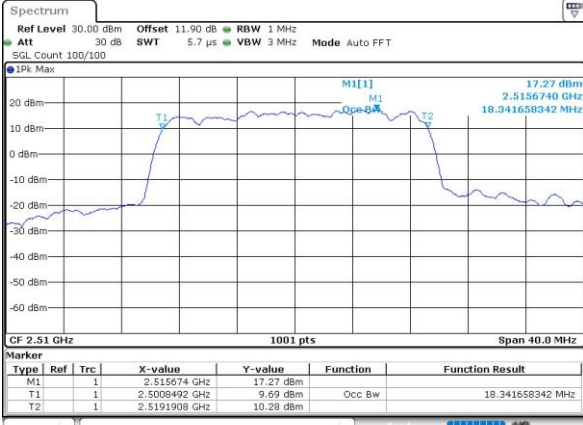


Date: 7,NOV,2018 17:03:59



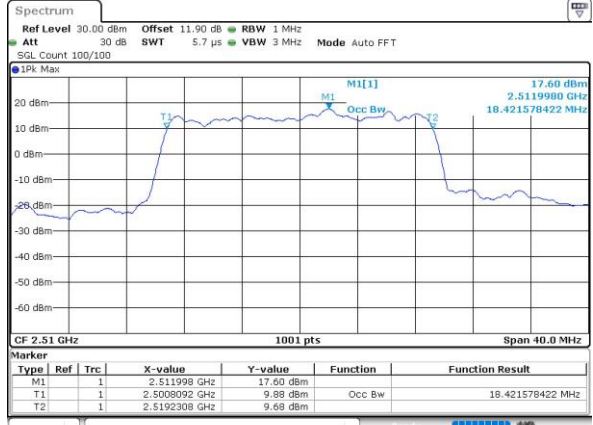
LTE Band 41

Lowest Channel / 20MHz / QPSK



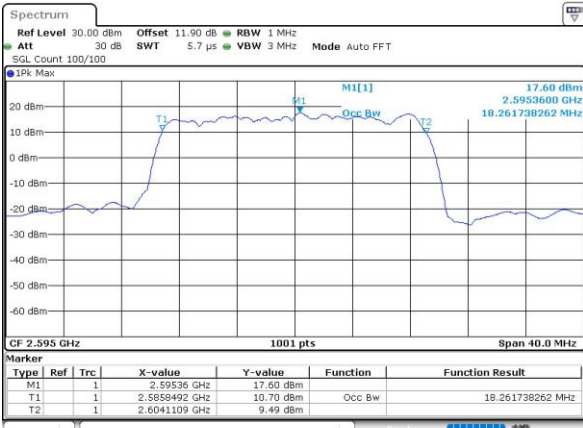
Date: 7,NOV,2018 17:10:02

Lowest Channel / 20MHz / 16QAM



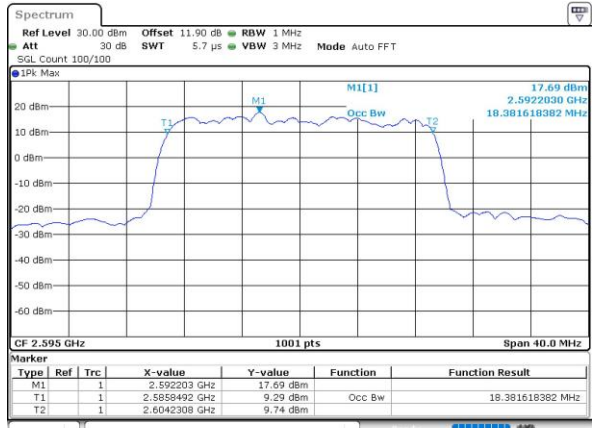
Date: 7,NOV,2018 17:04:44

Middle Channel / 20MHz / QPSK



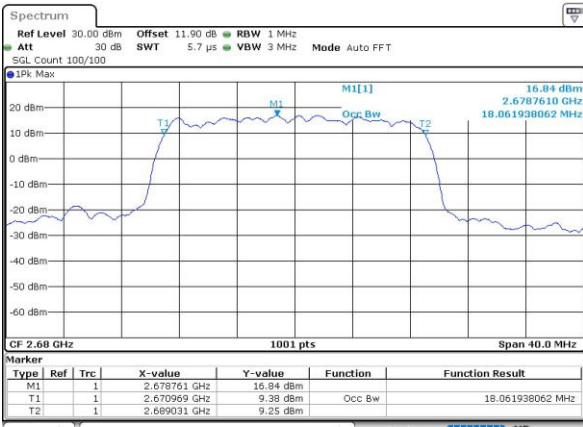
Date: 7,NOV,2018 17:05:18

Middle Channel / 20MHz / 16QAM



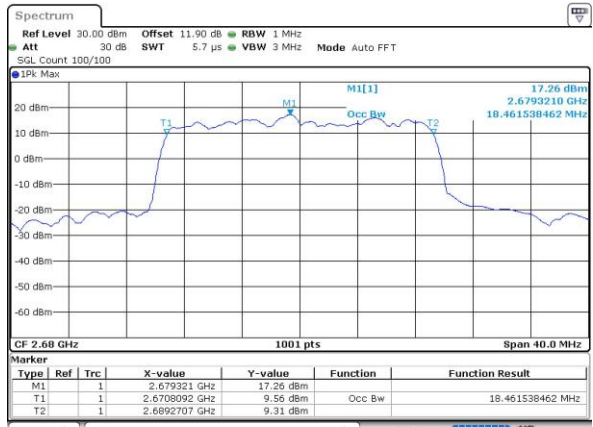
Date: 7,NOV,2018 17:05:30

Highest Channel / 20MHz / QPSK



Date: 7,NOV,2018 17:06:04

Highest Channel / 20MHz / 16QAM



Date: 7,NOV,2018 17:06:15