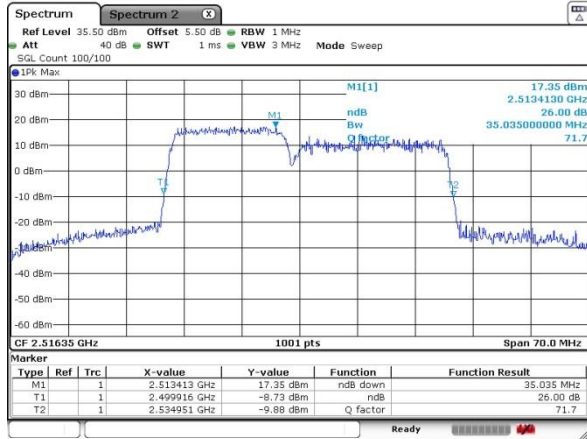




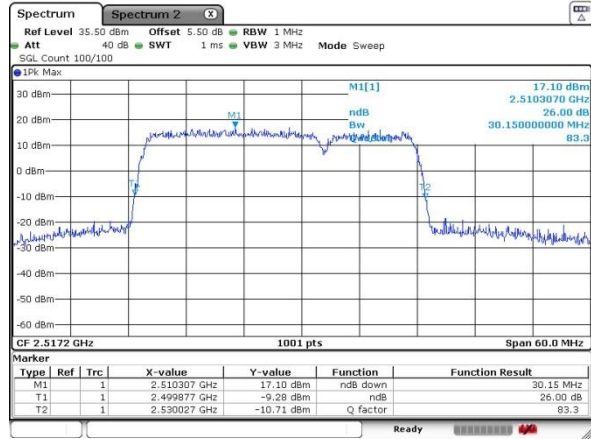
LTE Band 7 / 16QAM

Lowest Channel / 15MHz+20MHz



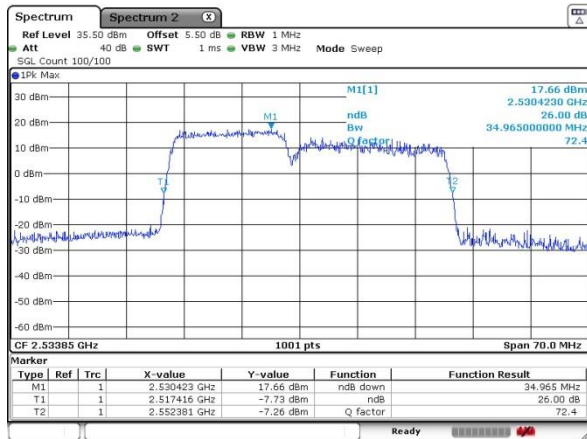
Date: 9 MAY 2018 21:18:02

Lowest Channel / 20MHz+10MHz



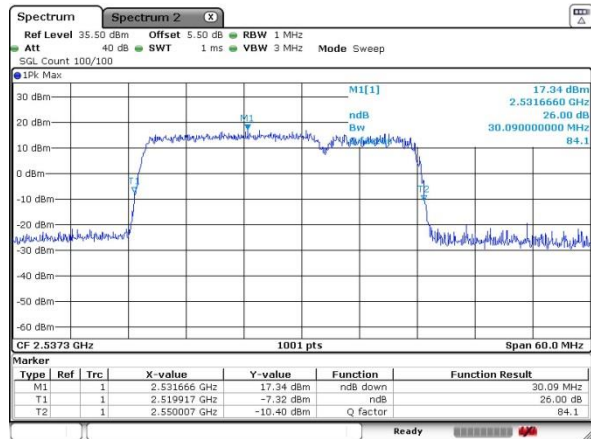
Date: 9 MAY 2018 22:01:13

Middle Channel / 15MHz+20MHz



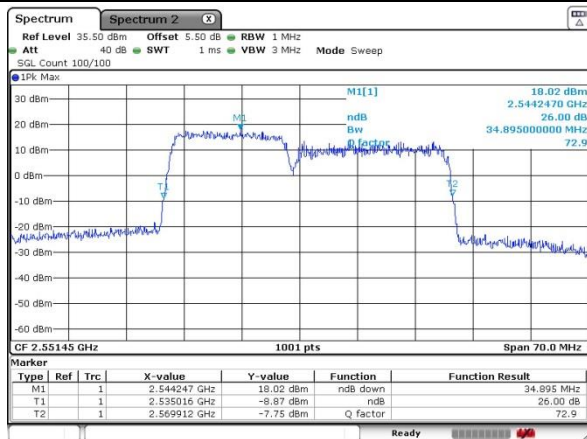
Date: 9 MAY 2018 21:22:23

Middle Channel / 20MHz+10MHz



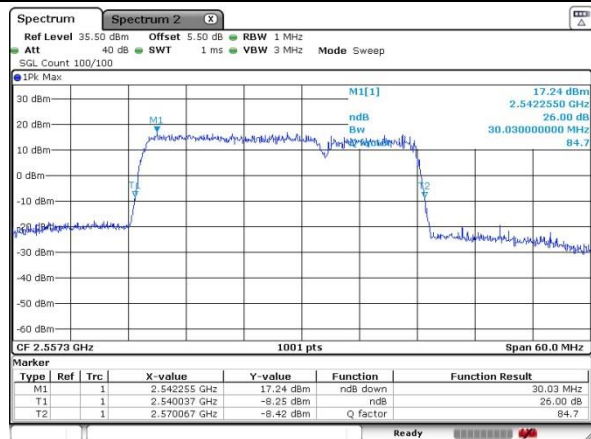
Date: 9 MAY 2018 22:07:52

Highest Channel / 15MHz+20MHz



Date: 9 MAY 2018 21:29:58

Highest Channel / 20MHz+10MHz

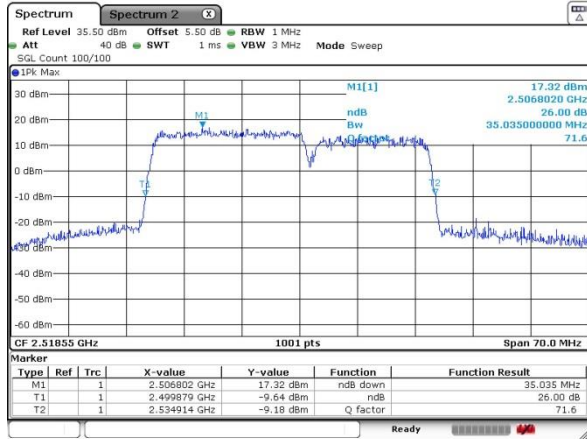


Date: 9 MAY 2018 22:13:17



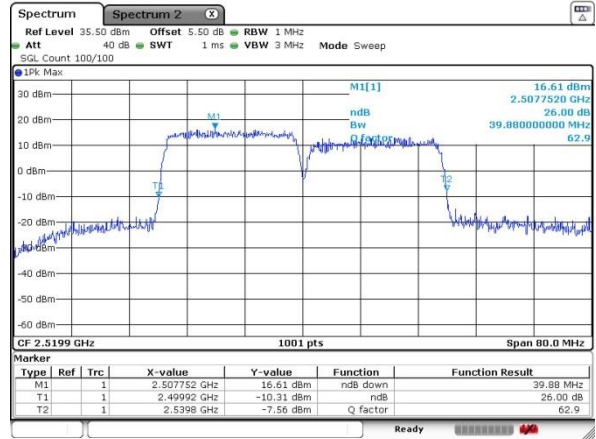
LTE Band 7 / 16QAM

Lowest Channel / 20MHz+15MHz



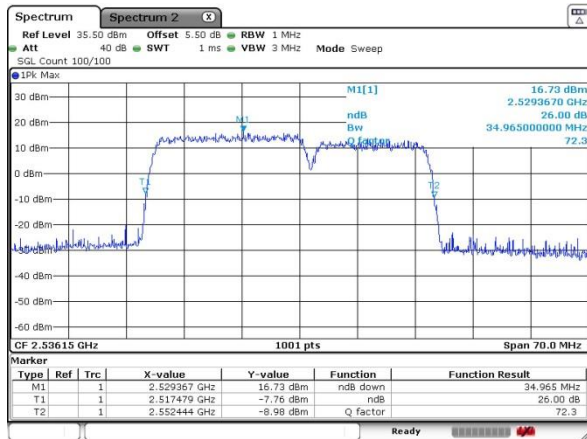
Date: 9 MAY 2018 20:29:16

Lowest Channel / 20MHz+20MHz



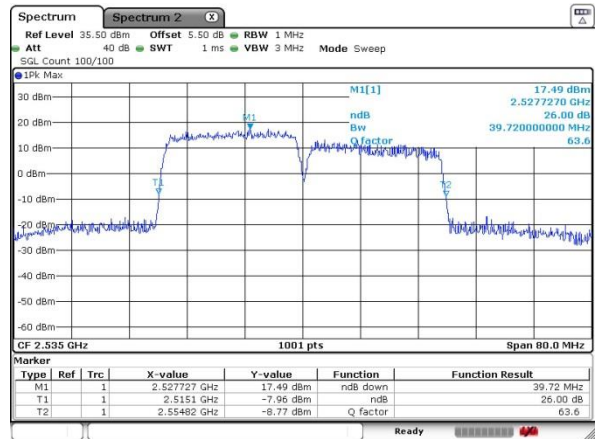
Date: 9 MAY 2018 20:08:14

Middle Channel / 20MHz+15MHz



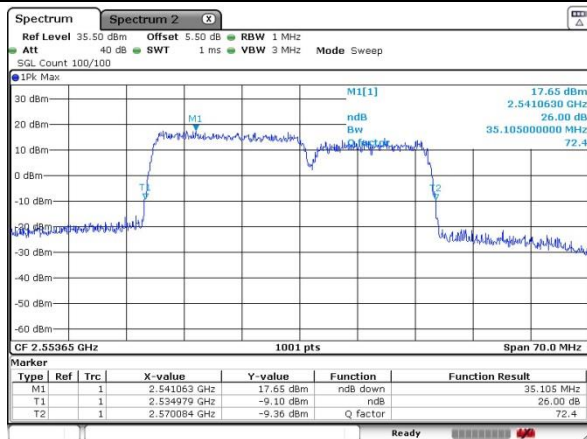
Date: 9 MAY 2018 20:37:03

Middle Channel / 20MHz+20MHz



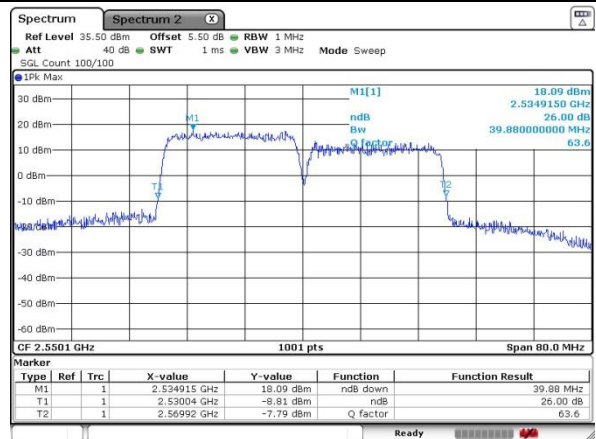
Date: 9 MAY 2018 20:13:22

Highest Channel / 20MHz+15MHz



Date: 9 MAY 2018 20:41:34

Highest Channel / 20MHz+20MHz

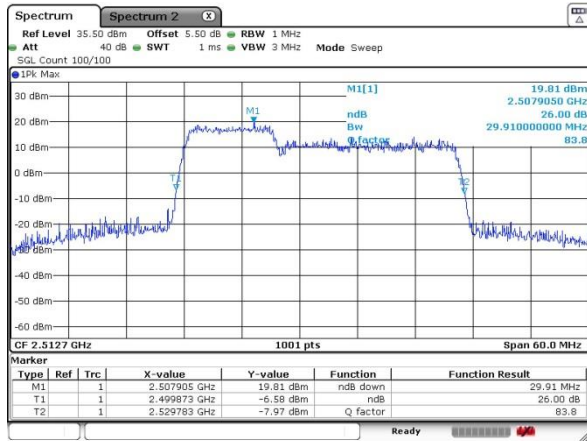


Date: 9 MAY 2018 20:01:00



LTE Band 7 / 64QAM

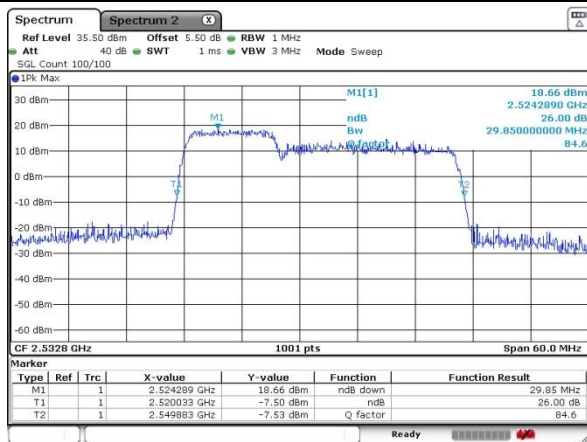
Lowest Channel / 10MHz+20MHz



Date: 9 MAY 2018 21:37:28

Lowest Channel / 15MHz+5MHz

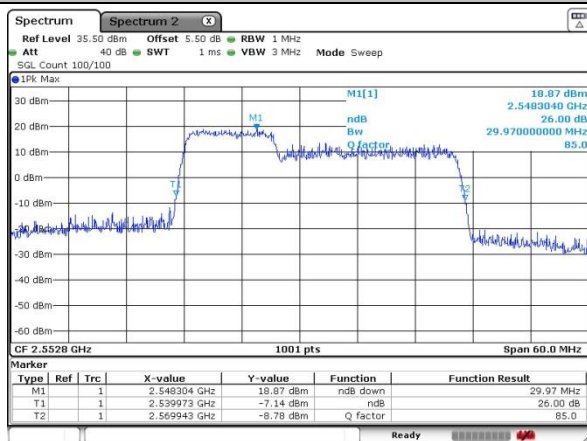
Middle Channel / 10MHz+20MHz



Date: 9 MAY 2018 21:47:23

Middle Channel / 15MHz+5MHz

Highest Channel / 10MHz+20MHz



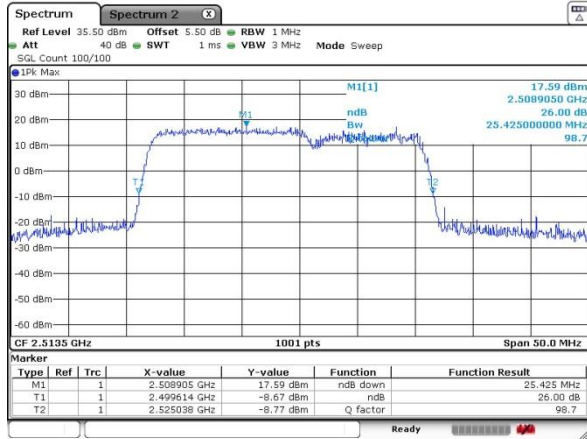
Date: 9 MAY 2018 21:48:56

Highest Channel / 15MHz+5MHz



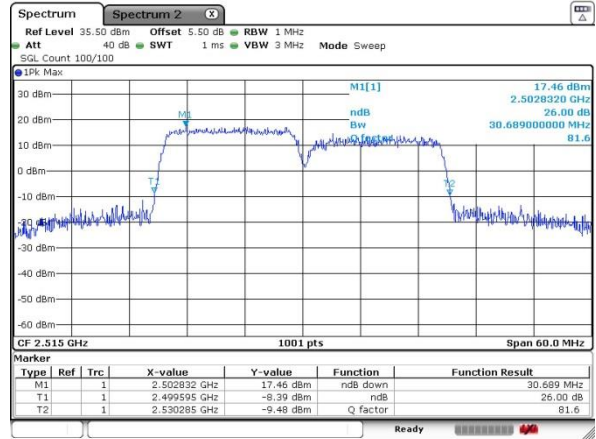
LTE Band 7 / 64QAM

Lowest Channel / 15MHz+10MHz



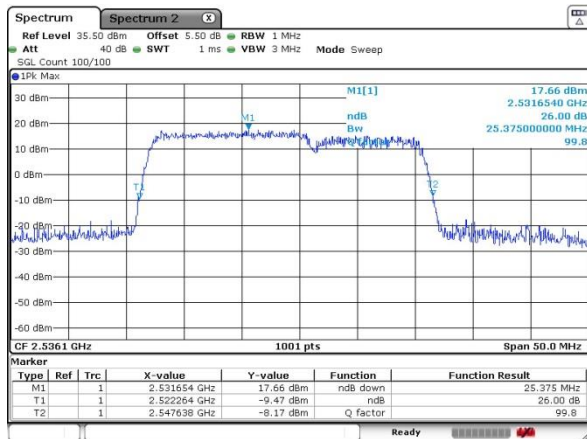
Date: 9 MAY 2018 22:53:59

Lowest Channel / 15MHz+15MHz



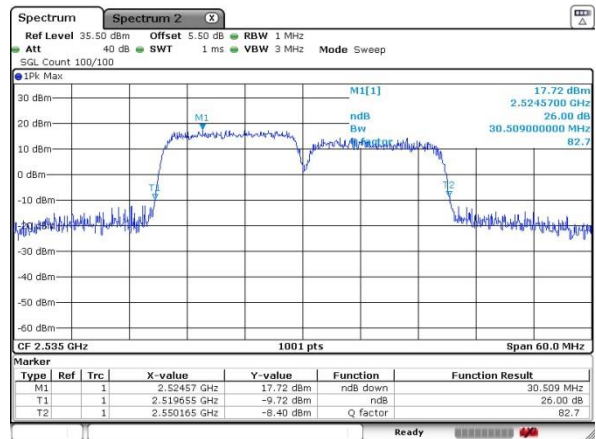
Date: 9 MAY 2018 22:32:07

Middle Channel / 15MHz+10MHz



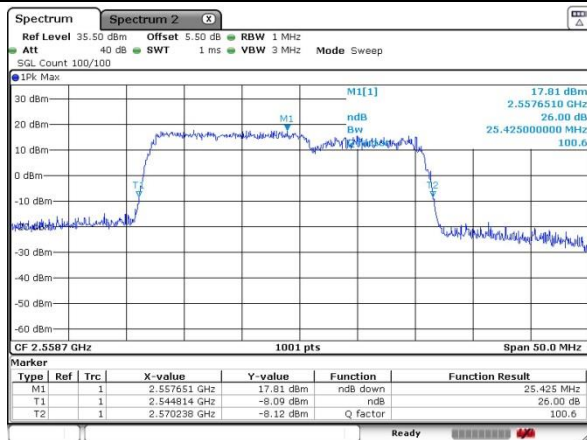
Date: 9 MAY 2018 22:55:17

Middle Channel / 15MHz+15MHz



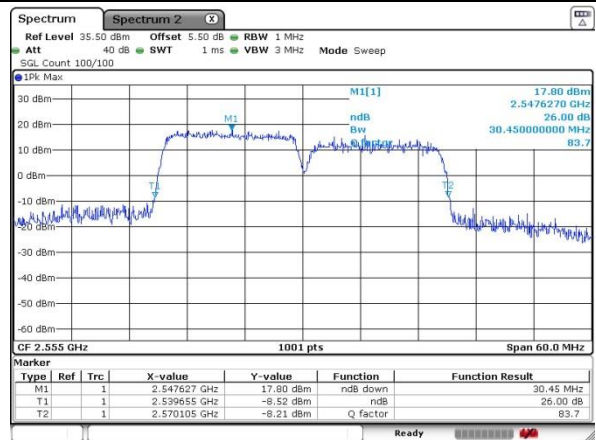
Date: 9 MAY 2018 22:41:13

Highest Channel / 15MHz+10MHz



Date: 9 MAY 2018 23:05:14

Highest Channel / 15MHz+15MHz

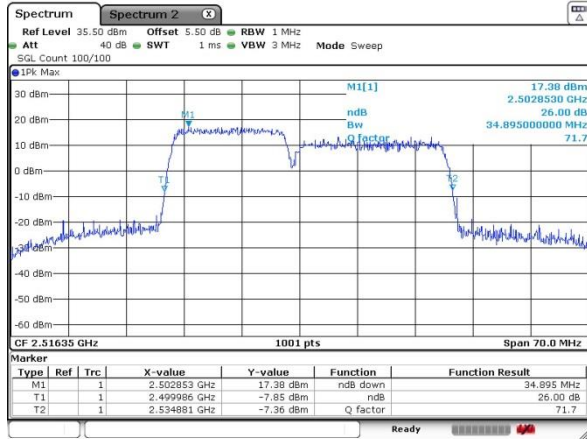


Date: 9 MAY 2018 22:42:42



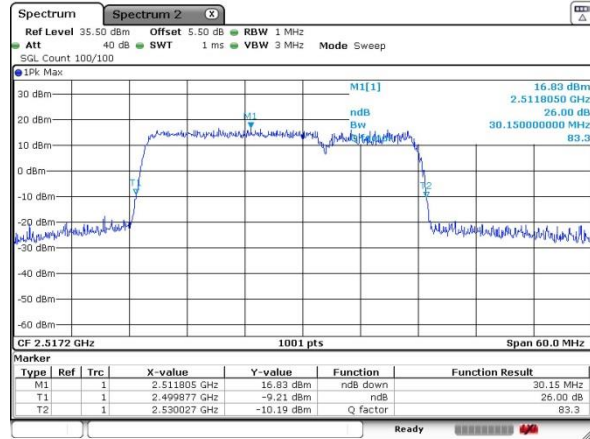
LTE Band 7 / 64QAM

Lowest Channel / 15MHz+20MHz



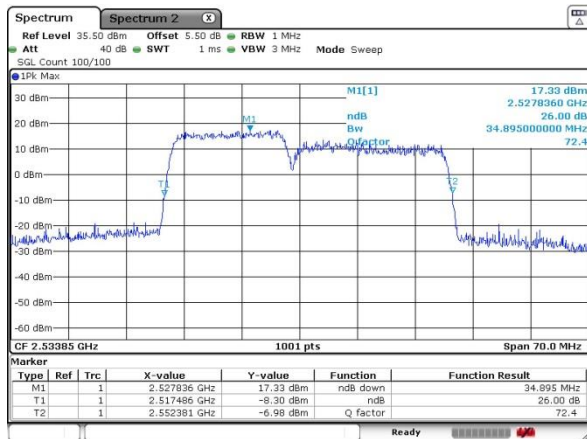
Date: 9 MAY 2018 21:19:12

Lowest Channel / 20MHz+10MHz



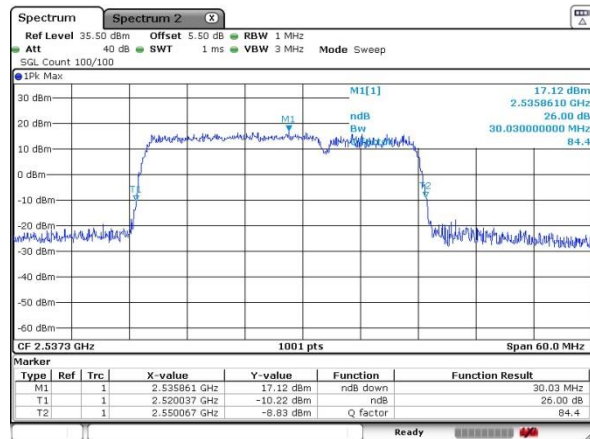
Date: 9 MAY 2018 22:02:20

Middle Channel / 15MHz+20MHz



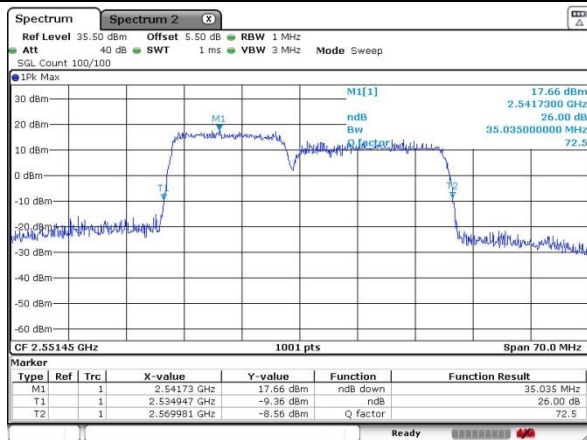
Date: 9 MAY 2018 21:21:46

Middle Channel / 20MHz+10MHz



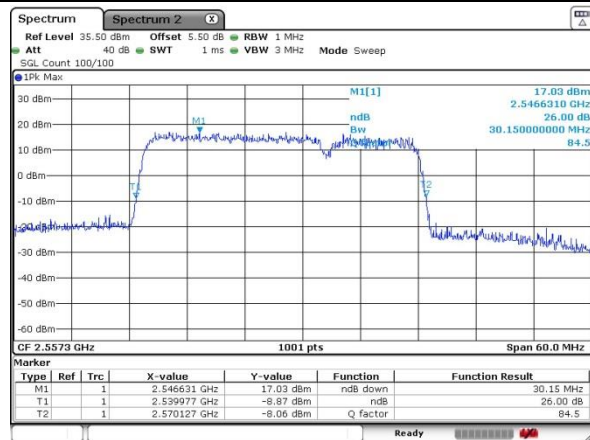
Date: 9 MAY 2018 22:07:04

Highest Channel / 15MHz+20MHz



Date: 9 MAY 2018 21:30:52

Highest Channel / 20MHz+10MHz

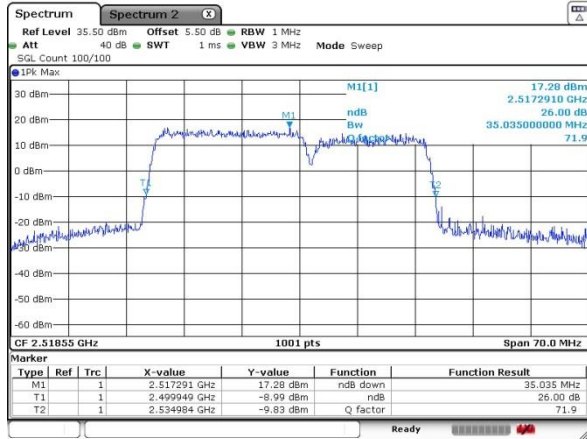


Date: 9 MAY 2018 22:14:04



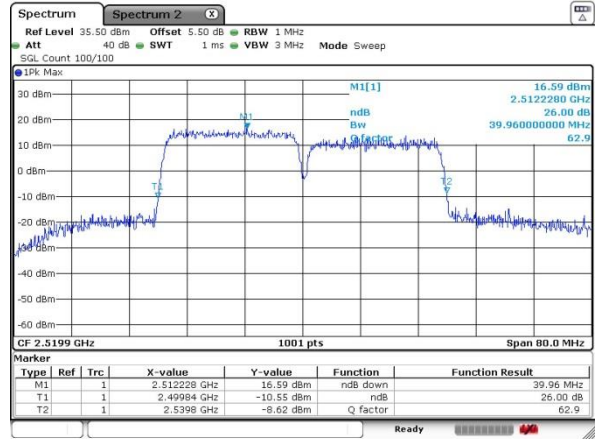
LTE Band 7 / 64QAM

Lowest Channel / 20MHz+15MHz



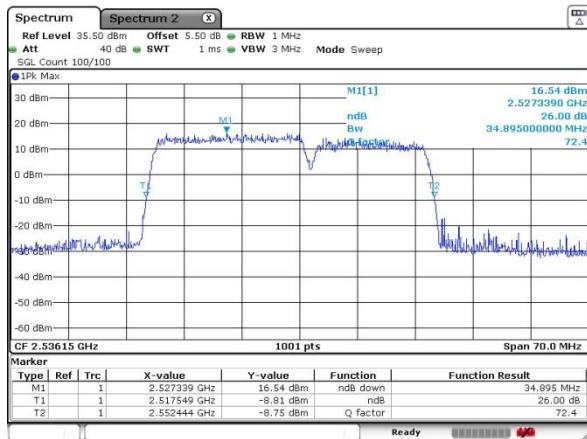
Date: 9 MAY 2018 20:28:34

Lowest Channel / 20MHz+20MHz



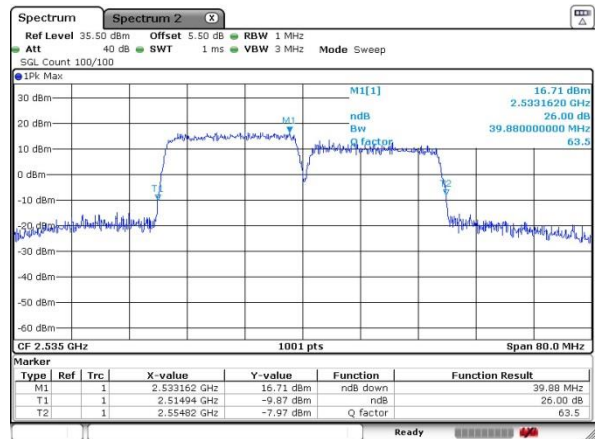
Date: 9 MAY 2018 20:09:27

Middle Channel / 20MHz+15MHz



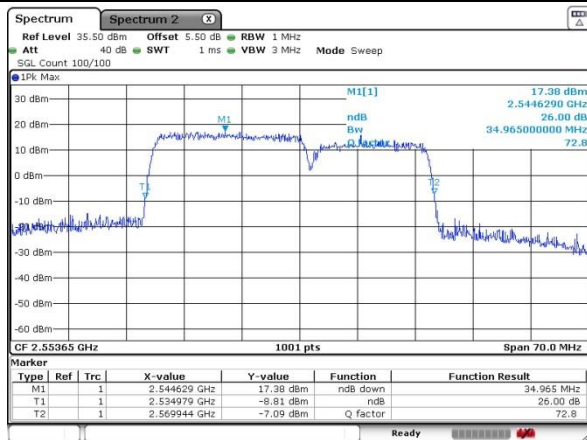
Date: 9 MAY 2018 20:37:36

Middle Channel / 20MHz+20MHz



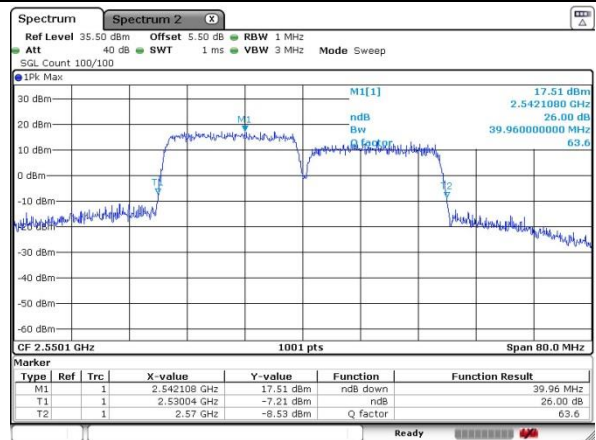
Date: 9 MAY 2018 20:11:46

Highest Channel / 20MHz+15MHz



Date: 9 MAY 2018 20:40:54

Highest Channel / 20MHz+20MHz



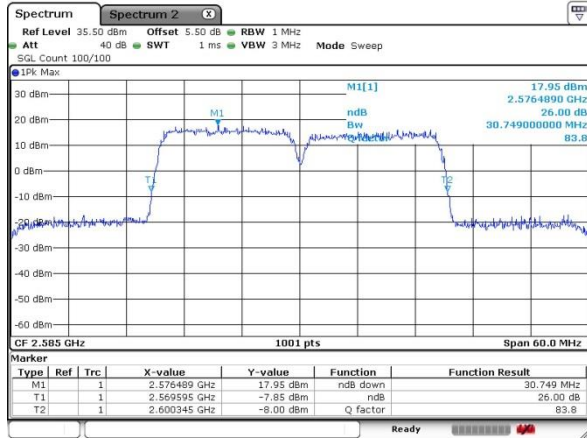
Date: 9 MAY 2018 19:56:36



LTE Band 38

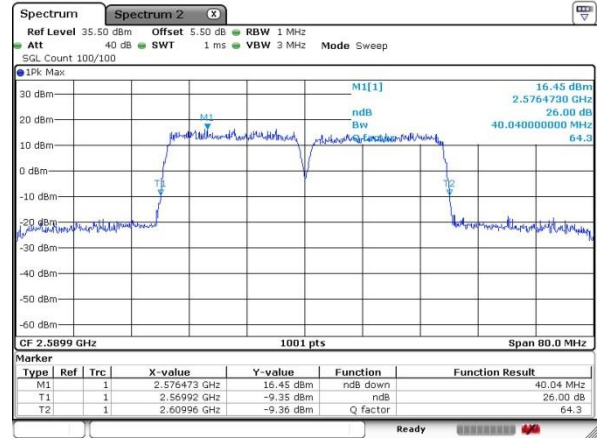
QPSK

Lowest Channel / 15MHz+15MHz



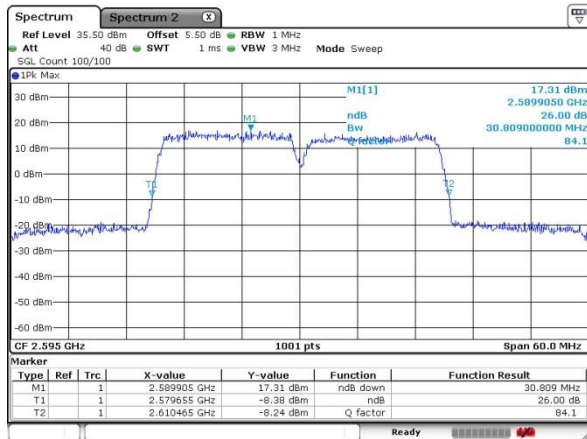
Date: 31.MAY.2018 10:14:23

Lowest Channel / 20MHz+20MHz



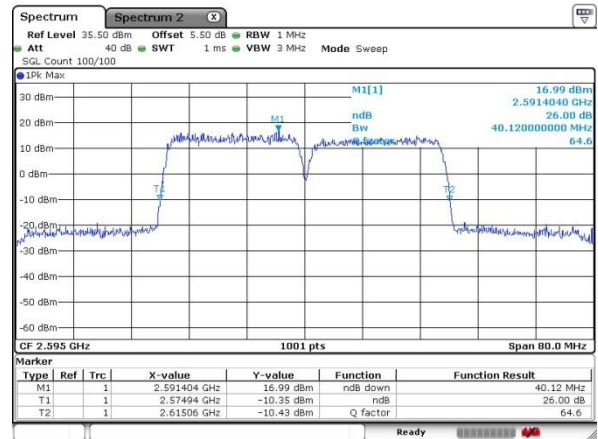
Date: 31.MAY.2018 10:08:50

Middle Channel / 15MHz+15MHz



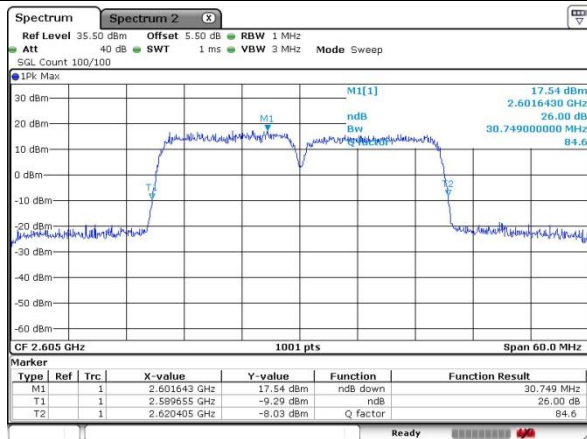
Date: 31.MAY.2018 10:25:06

Middle Channel / 20MHz+20MHz



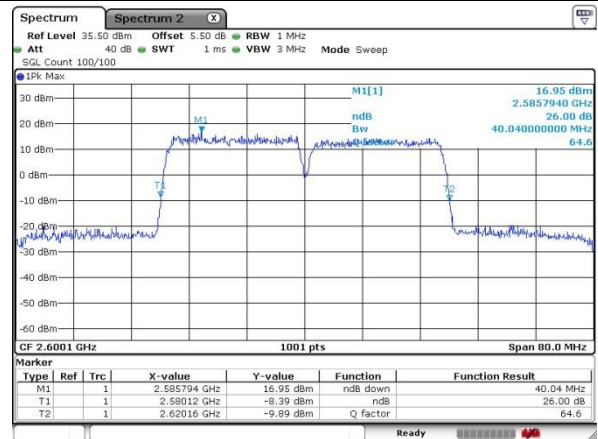
Date: 31.MAY.2018 09:53:22

Highest Channel / 15MHz+15MHz



Date: 31.MAY.2018 10:30:20

Highest Channel / 20MHz+20MHz



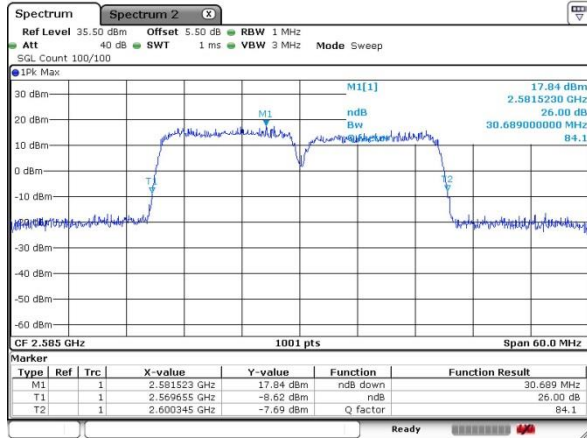
Date: 31.MAY.2018 09:42:04



LTE Band 38

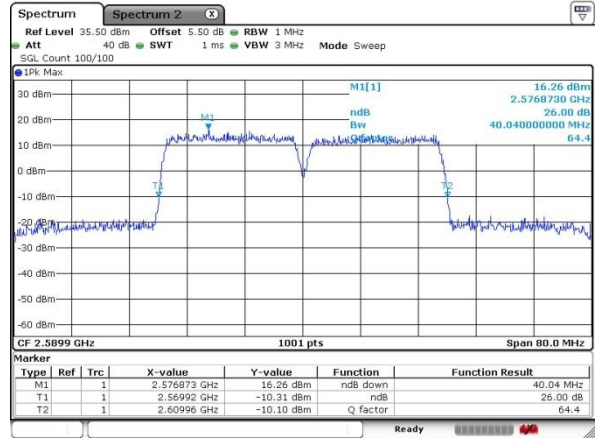
16QAM

Lowest Channel / 15MHz+15MHz



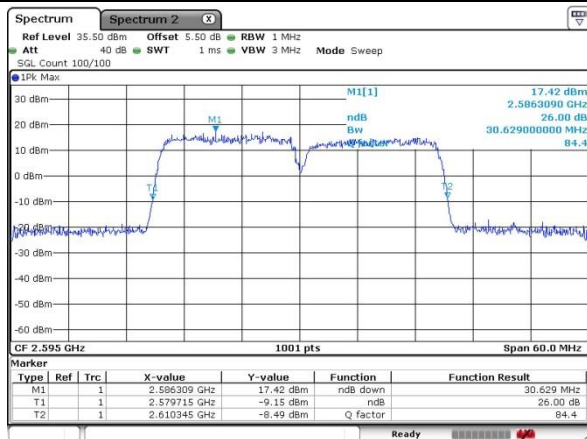
Date: 31.MAY.2018 10:15:10

Lowest Channel / 20MHz+20MHz



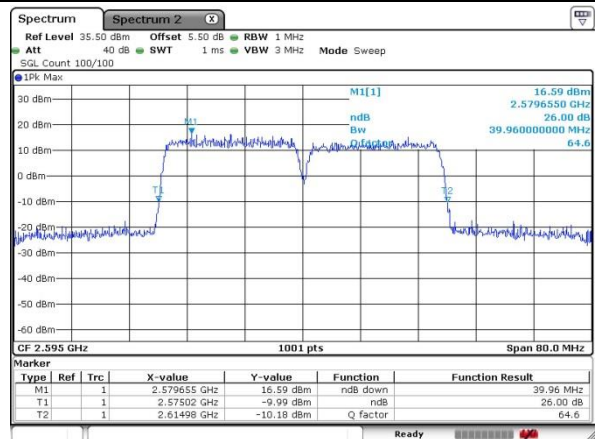
Date: 31.MAY.2018 10:07:59

Middle Channel / 15MHz+15MHz



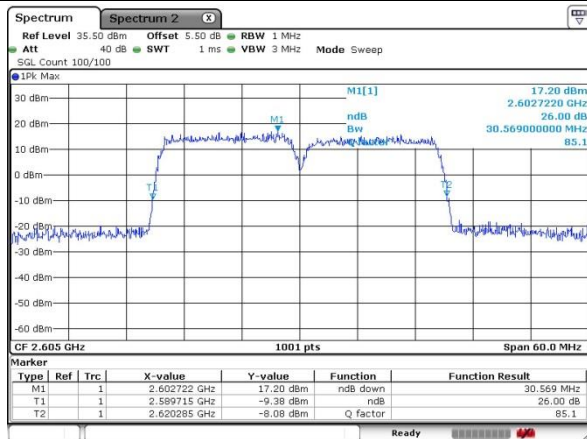
Date: 31.MAY.2018 10:20:51

Middle Channel / 20MHz+20MHz



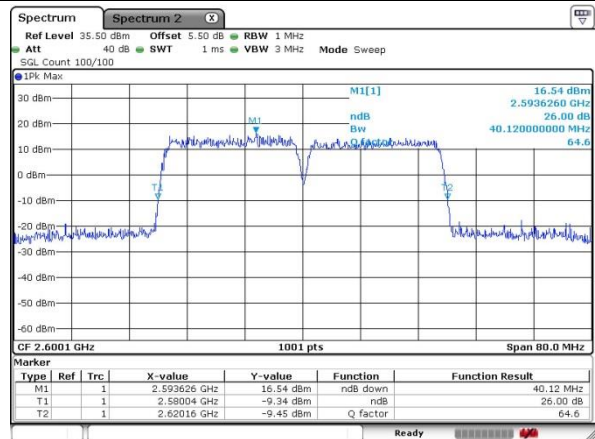
Date: 31.MAY.2018 09:49:16

Highest Channel / 15MHz+15MHz



Date: 31.MAY.2018 10:32:12

Highest Channel / 20MHz+20MHz



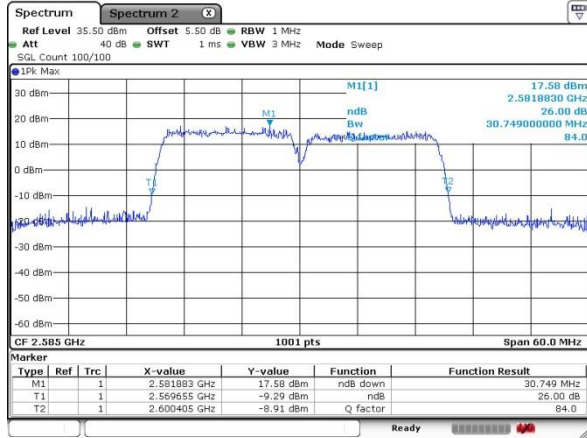
Date: 31.MAY.2018 09:44:09



LTE Band 38

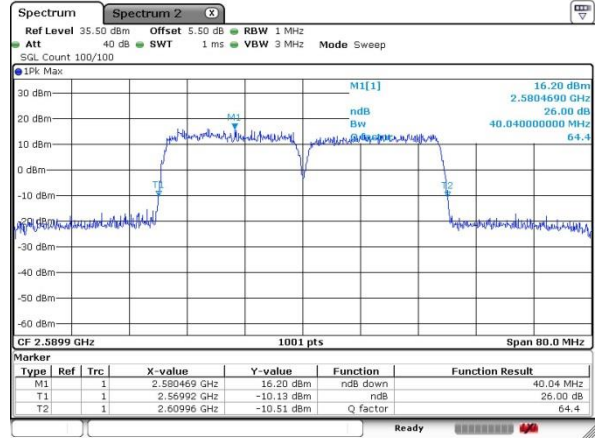
64QAM

Lowest Channel / 15MHz+15MHz



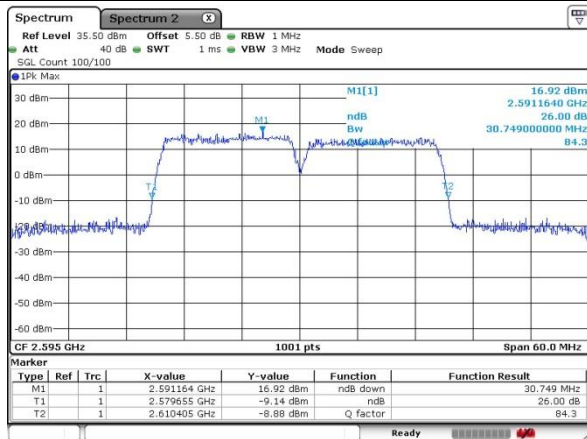
Date: 31 MAY 2018 10:18:28

Lowest Channel / 20MHz+20MHz



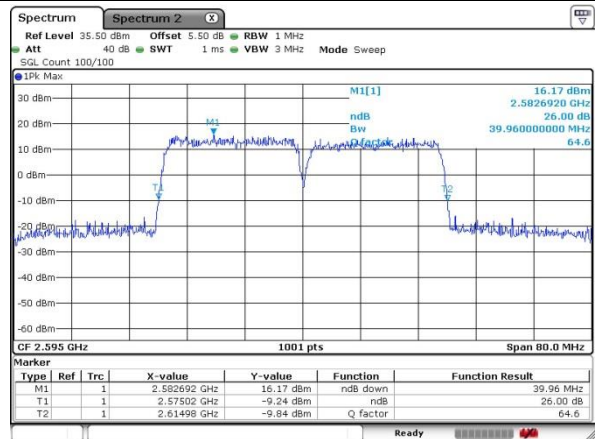
Date: 31 MAY 2018 10:06:07

Middle Channel / 15MHz+15MHz



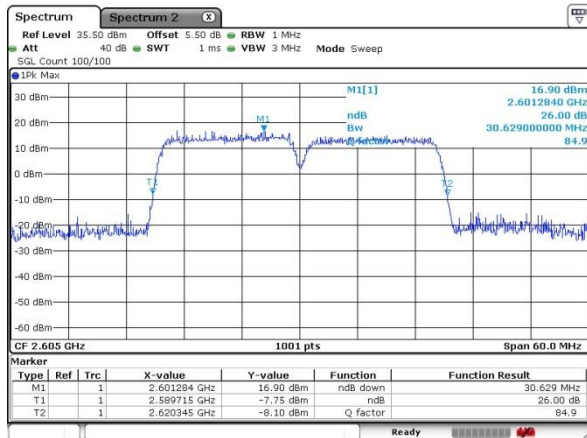
Date: 31 MAY 2018 10:19:20

Middle Channel / 20MHz+20MHz



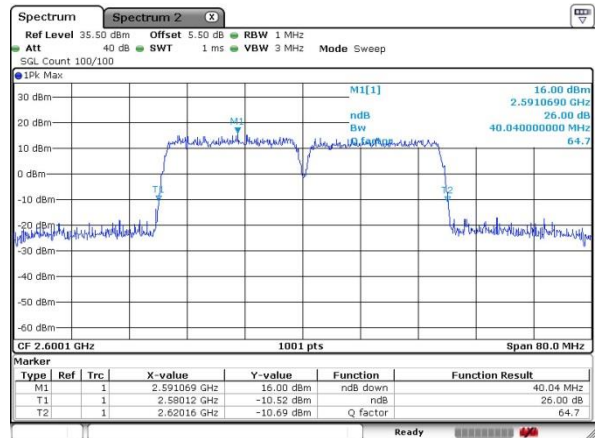
Date: 31 MAY 2018 09:48:11

Highest Channel / 15MHz+15MHz



Date: 31 MAY 2018 10:32:50

Highest Channel / 20MHz+20MHz



Date: 31 MAY 2018 09:44:50



Occupied Bandwidth

Mode	LTE Band 2 : 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	1.09	1.09	2.71	2.72	4.49	4.50	9.03	8.99	13.46	13.46	18.50	18.54
Middle CH	1.09	1.09	2.72	2.72	4.50	4.50	9.07	9.01	13.46	13.49	18.38	18.26
Highest CH	1.09	1.09	2.74	2.73	4.49	4.50	9.05	9.03	13.40	13.40	18.30	18.38
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.72		4.50		9.05		13.43		18.30	
Middle CH	1.09		2.72		4.54		9.01		13.43		18.46	
Highest CH	1.09		2.72		4.51		9.13		13.46		18.42	

Mode	LTE Band 4 : 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	1.09	1.09	2.72	2.74	4.50	4.49	9.07	9.01	13.43	13.37	18.26	18.46
Middle CH	1.09	1.09	2.72	2.73	4.49	4.52	9.05	9.03	13.46	13.43	18.30	18.22
Highest CH	1.09	1.09	2.71	2.70	4.49	4.50	9.11	9.03	13.46	13.40	18.34	18.22
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.73		4.48		9.03		13.46		18.34	
Middle CH	1.09		2.72		4.52		9.03		13.43		18.30	
Highest CH	1.10		2.72		4.48		8.99		13.49		18.42	

Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		1.4MHz	3MHz	5MHz	10MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	1.09	1.09	2.72	2.72	4.51	4.48	9.03	9.01	1.09	2.72	4.49	9.01
Middle CH	1.09	1.10	2.72	2.72	4.48	4.49	9.03	9.01	1.09	2.73	4.50	9.07
Highest CH	1.09	1.09	2.72	2.72	4.50	4.50	9.03	9.03	1.09	2.73	4.49	9.03



Mode	LTE Band 7 : 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	4.52	9.01	9.03	13.46	13.43	18.34	18.34
Middle CH	-	-	-	-	4.50	4.51	9.05	9.03	13.40	13.43	18.18	18.26
Highest CH	-	-	-	-	4.50	4.50	9.01	9.01	13.40	13.46	18.30	18.54
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	-		-		5MHz		10MHz		15MHz		20MHz	
Mod.	-	-	-	-	64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.51		9.05		13.43		18.38	
Middle CH	-	-	-	-	4.49		9.05		13.40		18.38	
Highest CH	-	-	-	-	4.50		9.01		13.40		18.34	

Mode	LTE Band 38 : 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	-	-	-	-	4.52	4.49	8.99	8.99	13.37	13.43	18.34	18.50
Middle CH	-	-	-	-	4.48	4.50	8.99	9.01	13.49	13.43	18.50	18.30
Highest CH	-	-	-	-	4.49	4.49	9.05	9.01	13.46	13.46	18.14	18.34
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	-		-		5MHz		10MHz		15MHz		20MHz	
Mod.	-	-	-	-	64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49		9.05		13.40		18.42	
Middle CH	-	-	-	-	4.50		8.95		13.40		18.18	
Highest CH	-	-	-	-	4.49		9.01		13.43		18.34	



For CA

Mode	LTE Band 7 : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.99	-	23.48	28.65
Middle CH	27.93	-	23.43	28.47
Highest CH	27.99	-	23.38	28.65
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.87	28.05	32.87	37.48
Middle CH	32.59	27.93	32.66	37.48
Highest CH	32.73	28.11	33.01	37.64

Mode	LTE Band 7 : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	28.11	-	23.58	28.53
Middle CH	27.93	-	23.43	28.53
Highest CH	27.93	-	23.48	28.59
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.73	28.05	32.94	37.88
Middle CH	32.59	28.05	32.66	37.56
Highest CH	32.87	27.99	32.87	37.64

Mode	LTE Band 7 : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.87	-	23.48	28.59
Middle CH	27.81	-	23.33	28.47
Highest CH	27.87	-	23.48	28.71
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.87	27.99	32.80	37.56
Middle CH	32.59	27.87	32.66	37.48
Highest CH	32.87	28.05	32.80	37.56



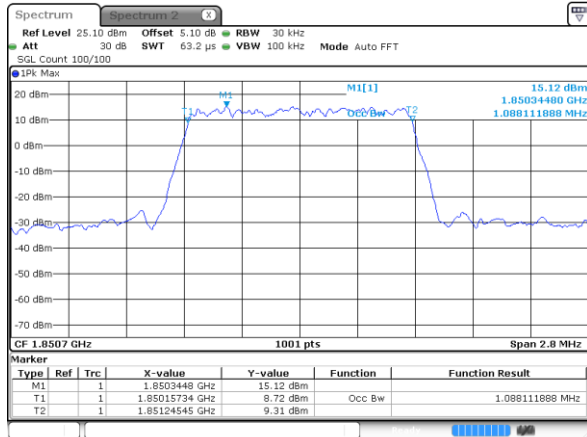
Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	QPSK		16QAM	
BW	15MHz+15MHz	20MHz+20MHz	15MHz+15MHz	20MHz+20MHz
Lowest CH	28.65	37.96	28.71	37.80
Middle CH	28.77	37.88	28.65	37.88
Highest CH	28.65	37.80	28.59	37.96

Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	64QAM		-	
BW	15MHz+15MHz	20MHz+20MHz	-	-
Lowest CH	28.65	37.80	-	-
Middle CH	28.65	37.80	-	-
Highest CH	28.59	37.80	-	--

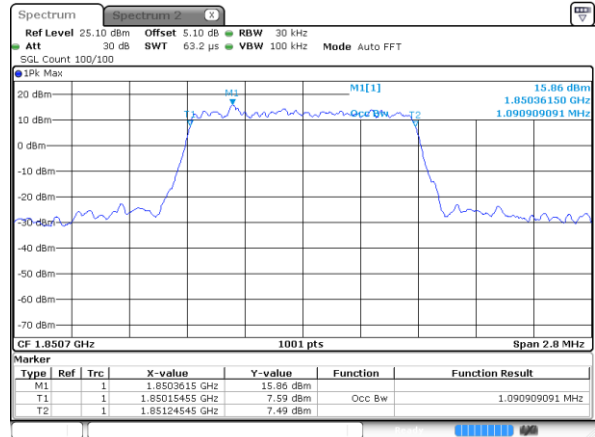


LTE Band 2

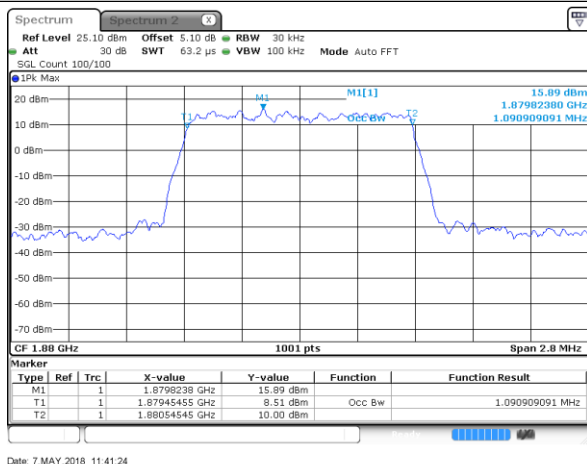
Lowest Channel / 1.4MHz / QPSK



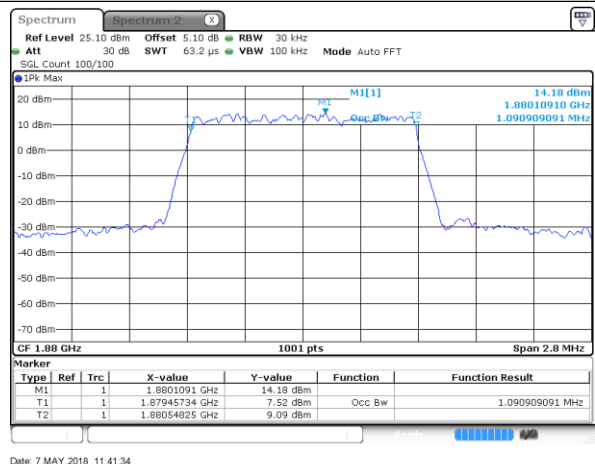
Lowest Channel / 1.4MHz / 16QAM



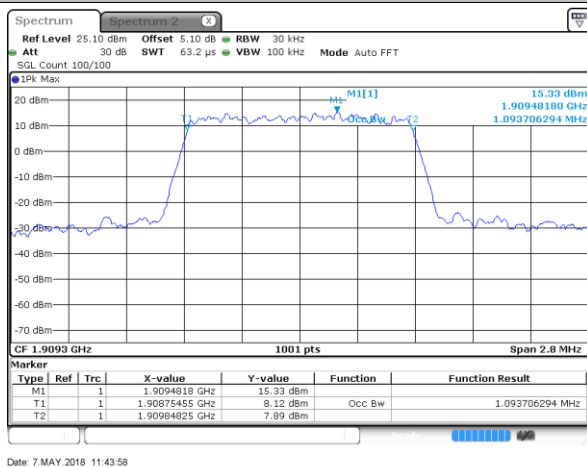
Middle Channel / 1.4MHz / QPSK



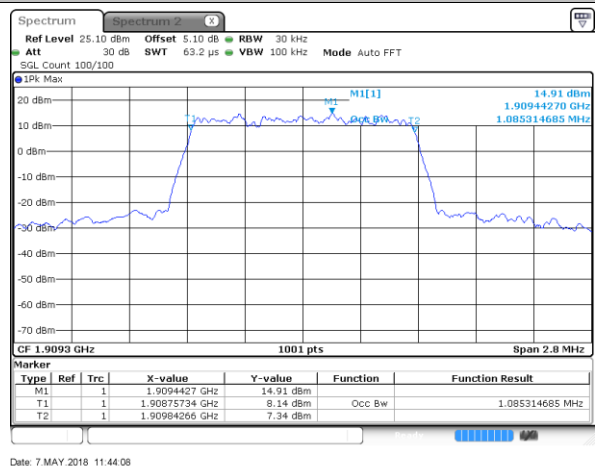
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



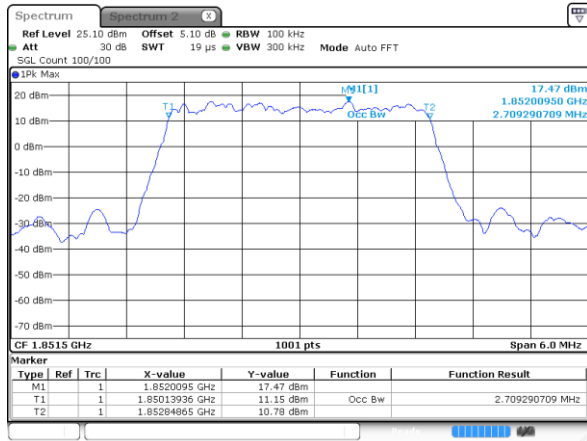
Highest Channel / 1.4MHz / 16QAM



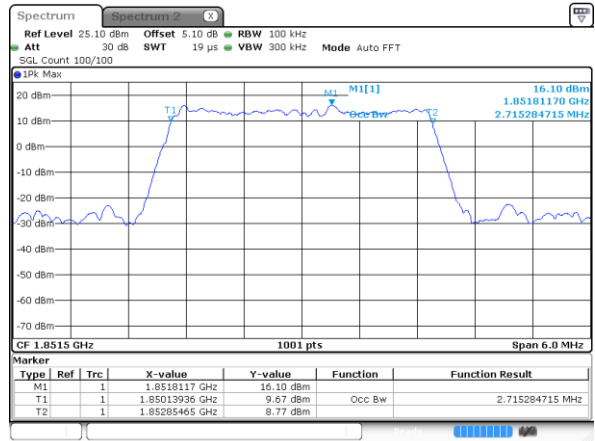


LTE Band 2

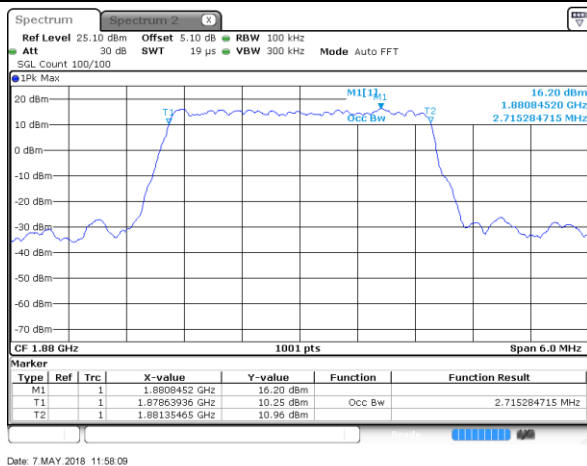
Lowest Channel / 3MHz / QPSK



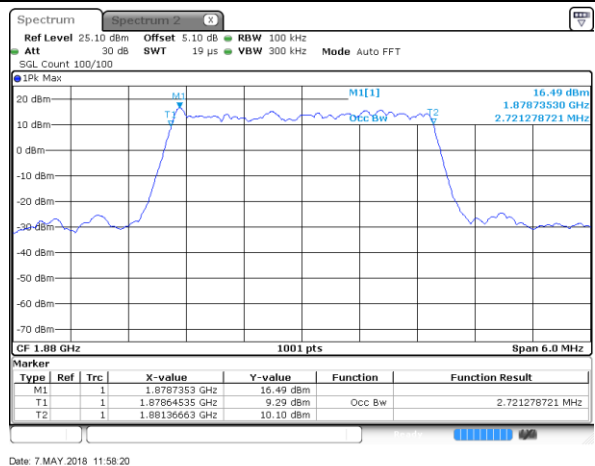
Lowest Channel / 3MHz / 16QAM



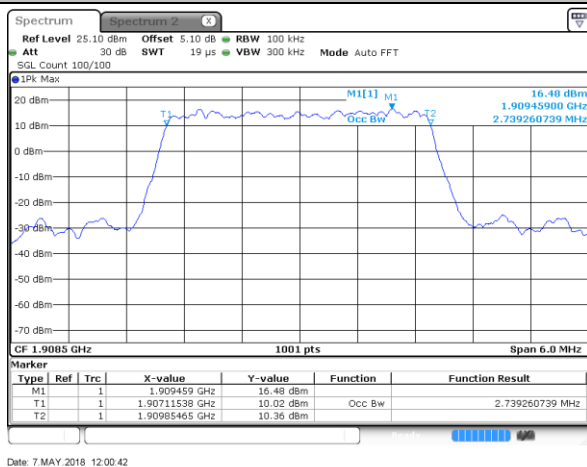
Middle Channel / 3MHz / QPSK



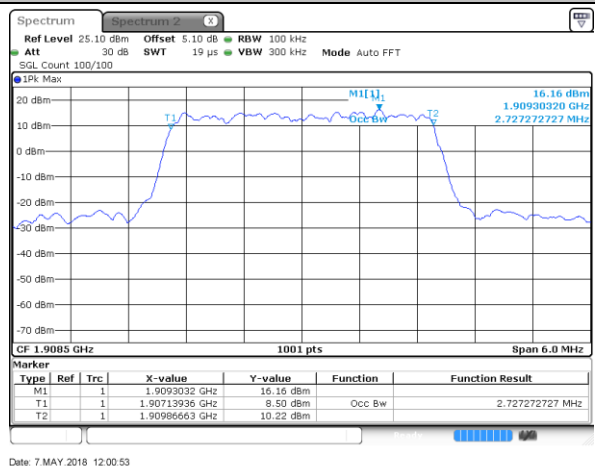
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



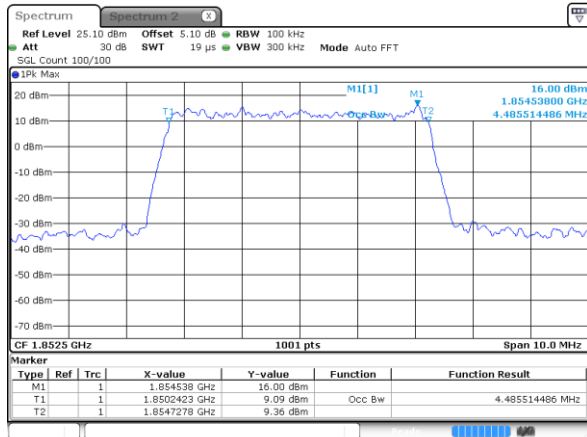
Highest Channel / 3MHz / 16QAM



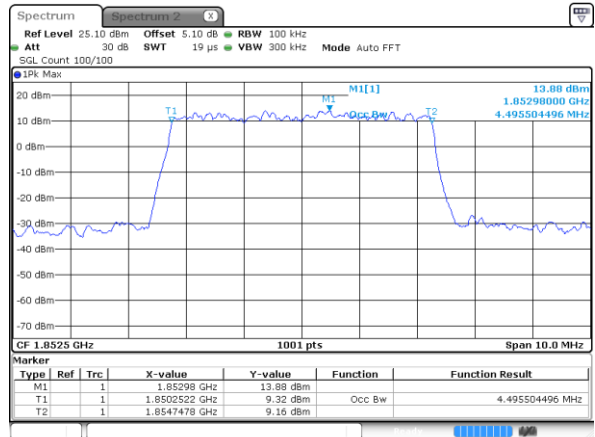


LTE Band 2

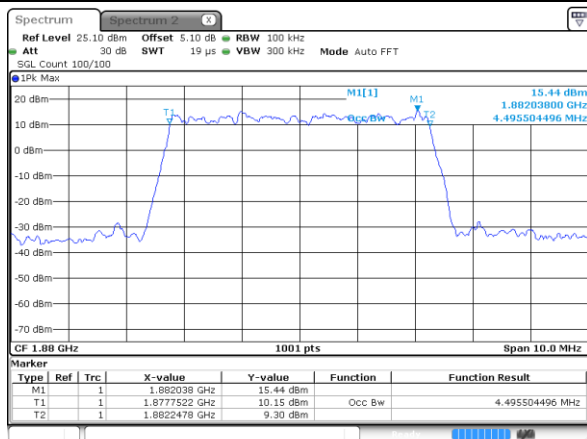
Lowest Channel / 5MHz / QPSK



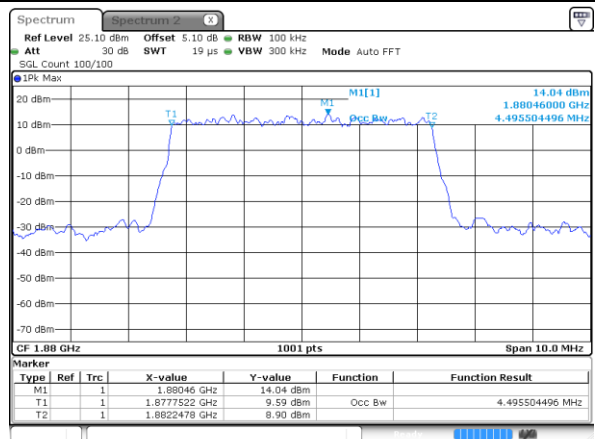
Lowest Channel / 5MHz / 16QAM



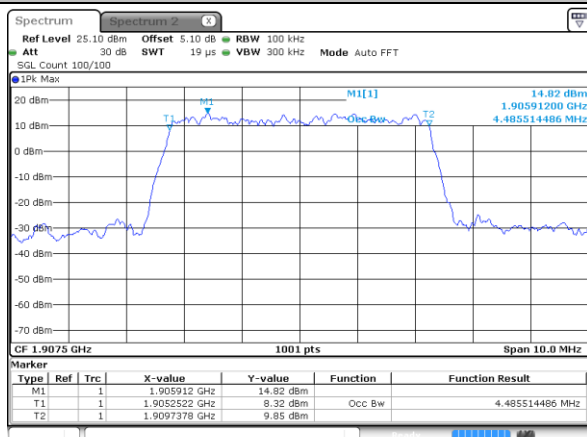
Middle Channel / 5MHz / QPSK



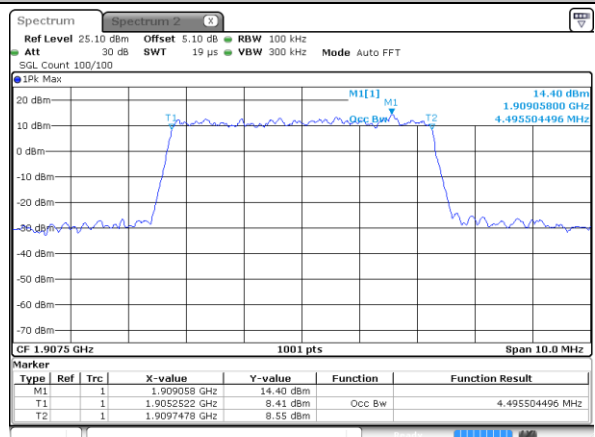
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



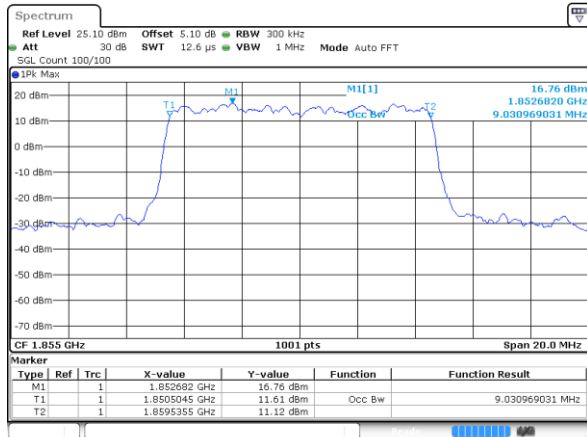
Highest Channel / 5MHz / 16QAM



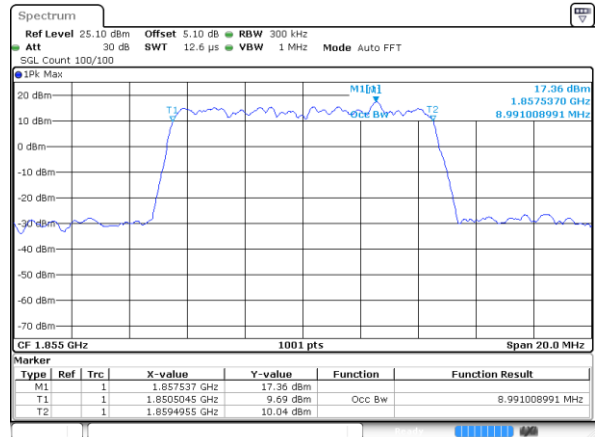


LTE Band 2

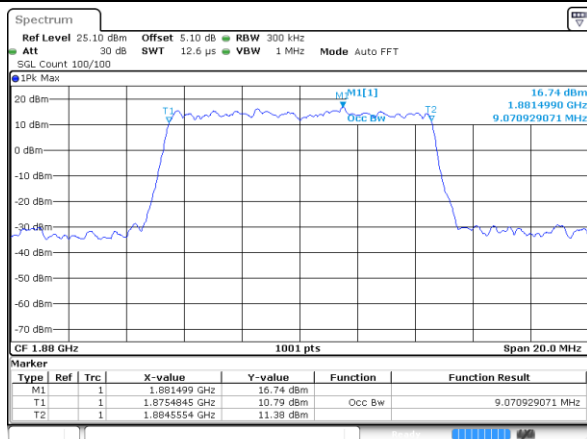
Lowest Channel / 10MHz / QPSK



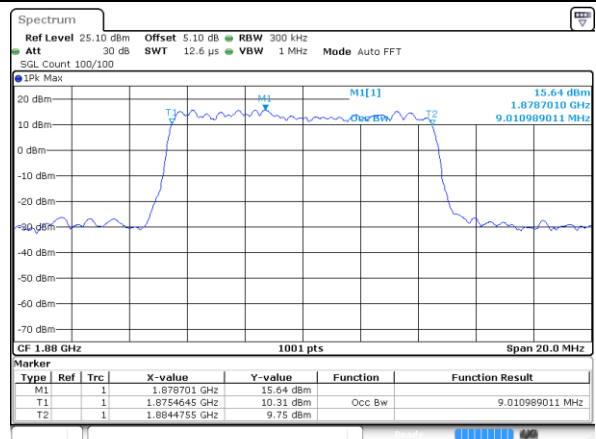
Lowest Channel / 10MHz / 16QAM



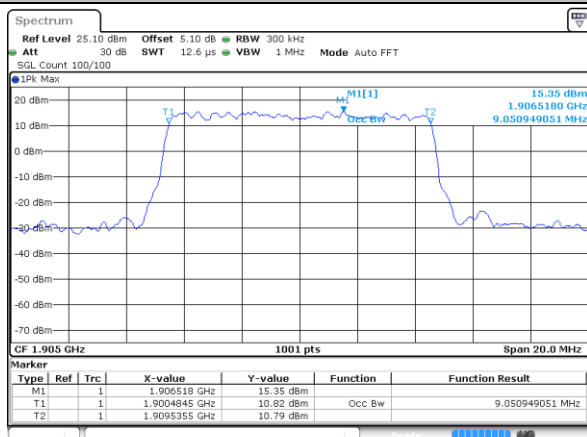
Middle Channel / 10MHz / QPSK



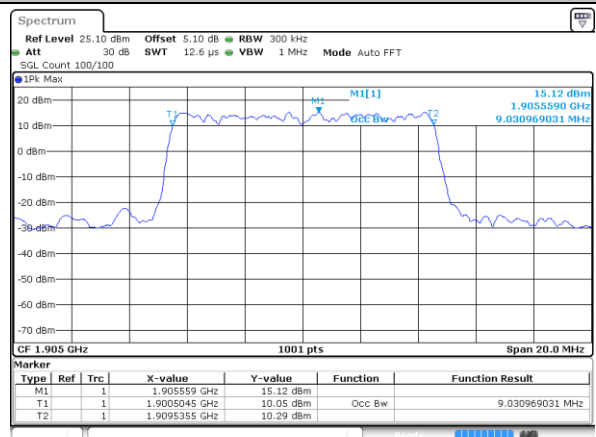
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



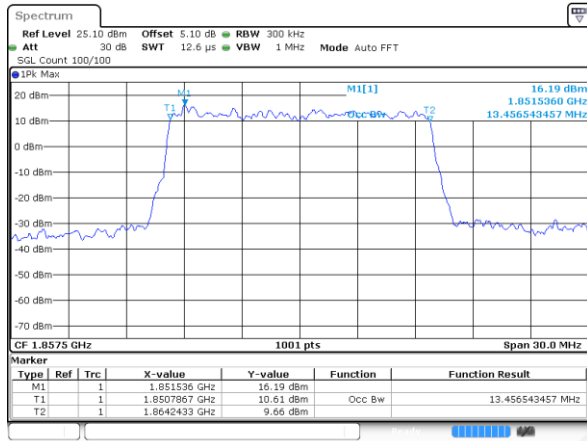
Highest Channel / 10MHz / 16QAM





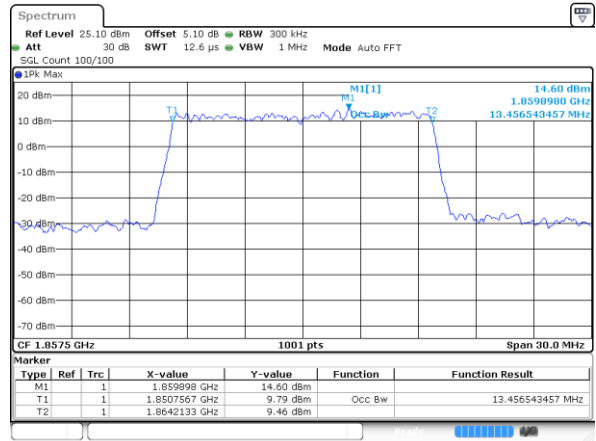
LTE Band 2

Lowest Channel / 15MHz / QPSK



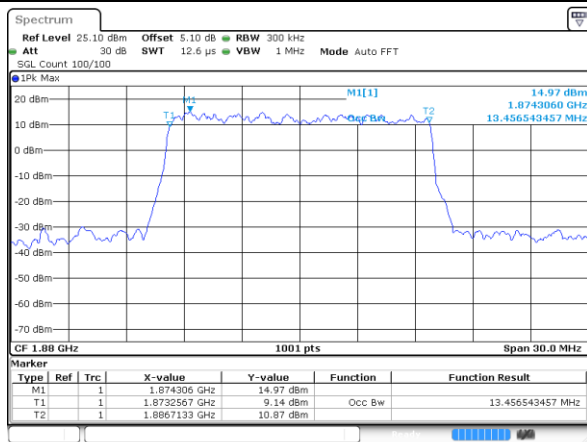
Date: 7 MAY 2018 13:47:09

Lowest Channel / 15MHz / 16QAM



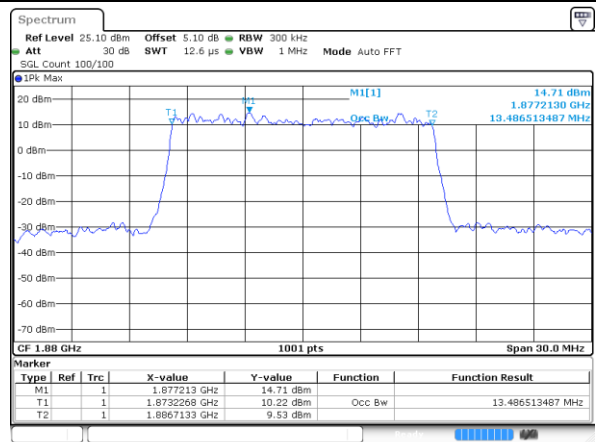
Date: 7 MAY 2018 13:47:20

Middle Channel / 15MHz / QPSK



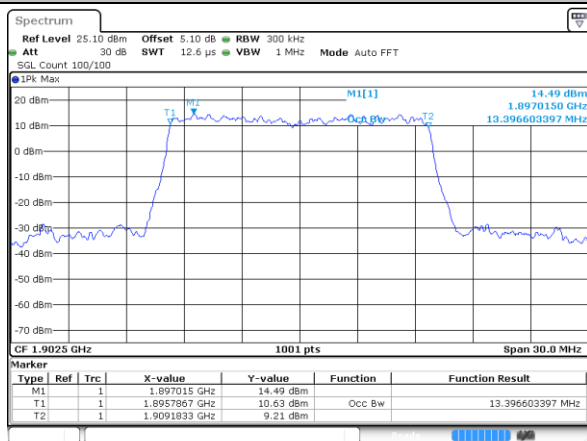
Date: 7 MAY 2018 13:54:15

Middle Channel / 15MHz / 16QAM



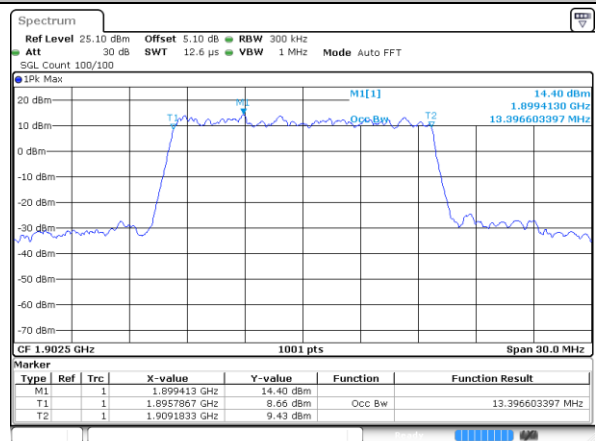
Date: 7 MAY 2018 13:54:25

Highest Channel / 15MHz / QPSK



Date: 7 MAY 2018 13:56:48

Highest Channel / 15MHz / 16QAM

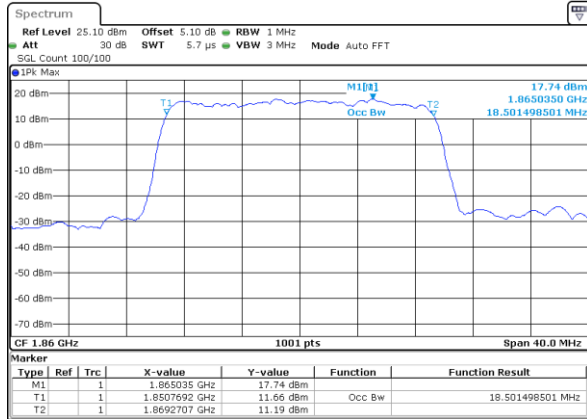


Date: 7 MAY 2018 13:56:58



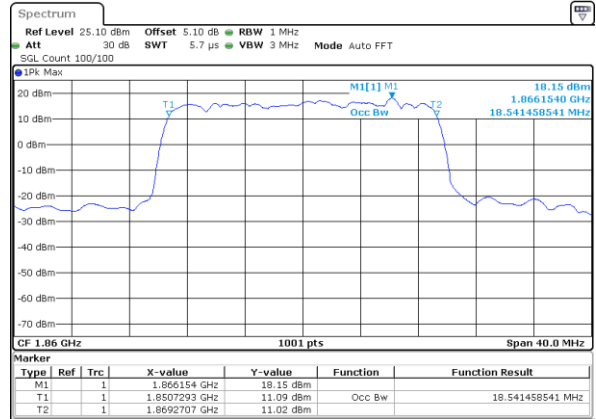
LTE Band 2

Lowest Channel / 20MHz / QPSK



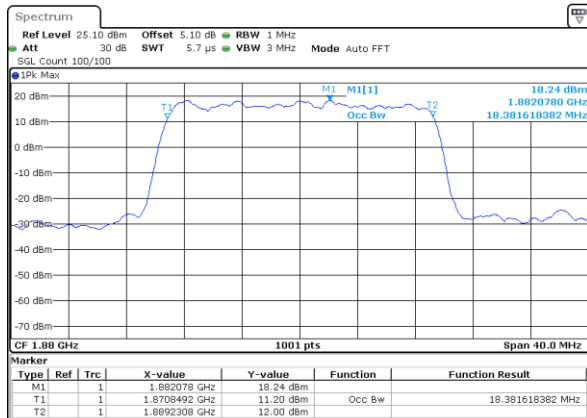
Date: 7 MAY 2018 14:03:53

Lowest Channel / 20MHz / 16QAM



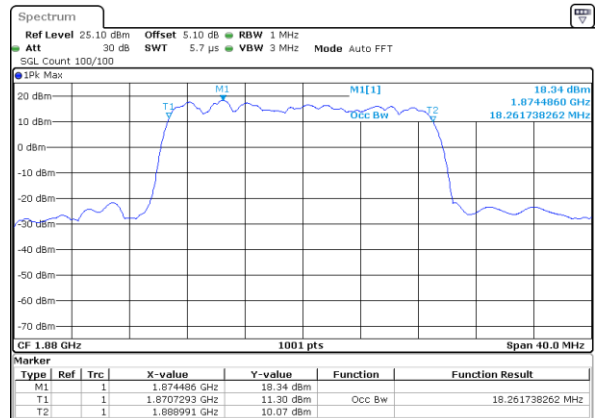
Date: 7 MAY 2018 14:04:03

Middle Channel / 20MHz / QPSK



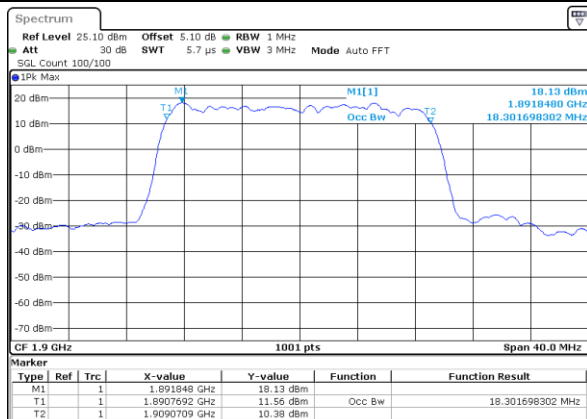
Date: 7 MAY 2018 14:10:58

Middle Channel / 20MHz / 16QAM



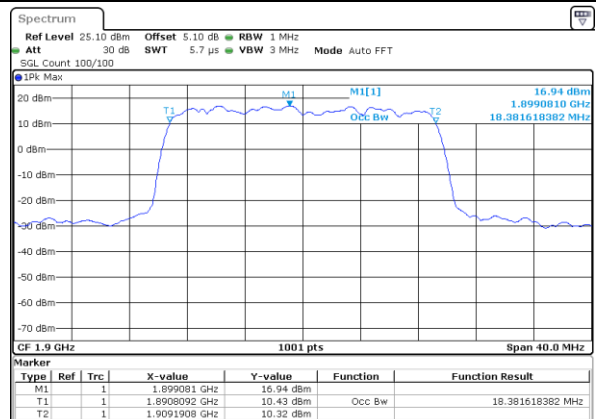
Date: 7 MAY 2018 14:11:09

Highest Channel / 20MHz / QPSK



Date: 7 MAY 2018 14:13:31

Highest Channel / 20MHz / 16QAM

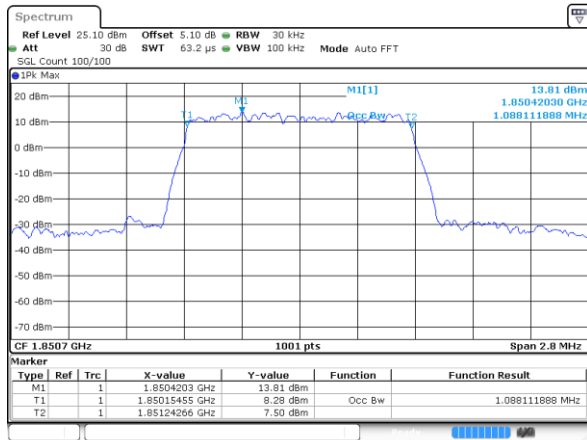


Date: 7 MAY 2018 14:13:42



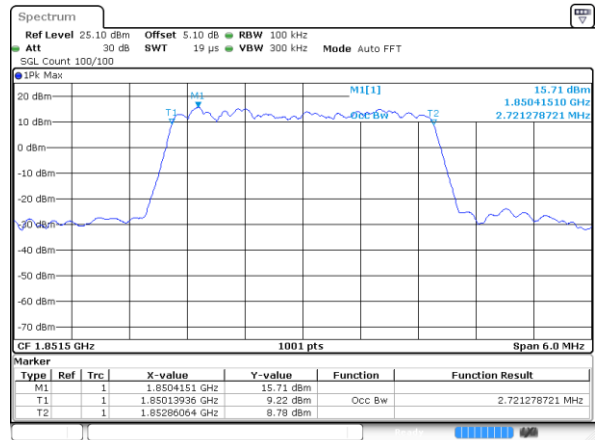
LTE Band 2

Lowest Channel / 1.4MHz / 64QAM



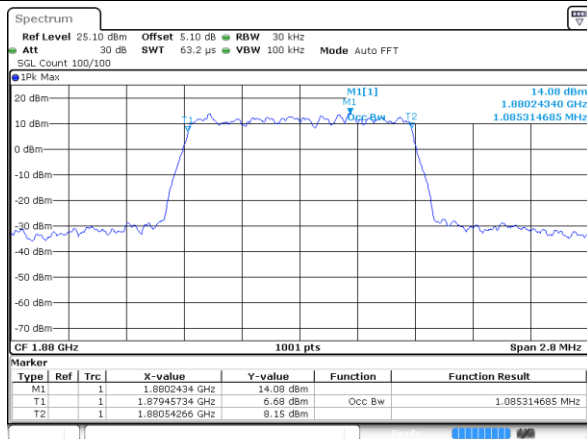
Date: 7 MAY 2018 14:23:25

Lowest Channel / 3MHz / 64QAM



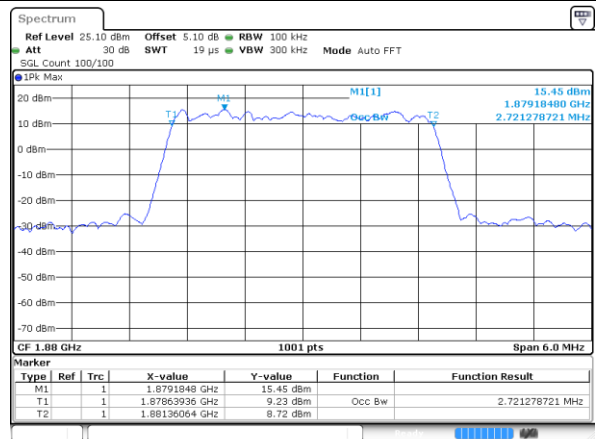
Date: 7 MAY 2018 14:23:57

Middle Channel / 1.4MHz / 64QAM



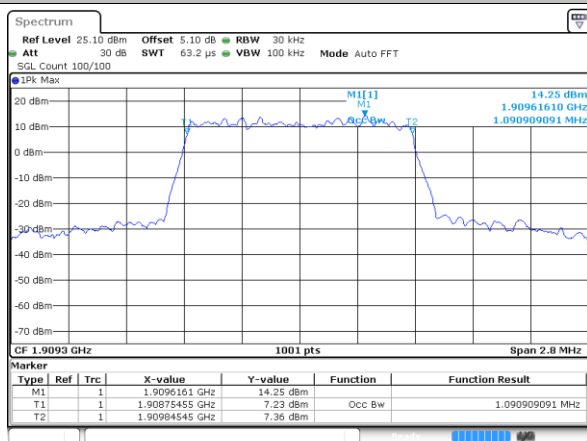
Date: 7 MAY 2018 14:23:36

Middle Channel / 3MHz / 64QAM



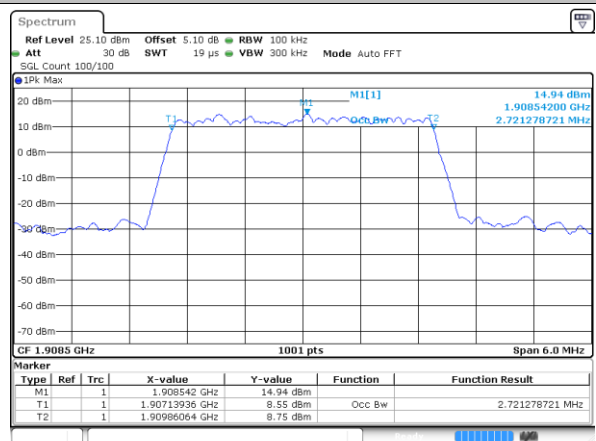
Date: 7 MAY 2018 14:24:08

Highest Channel / 1.4MHz / 64QAM



Date: 7 MAY 2018 14:23:46

Highest Channel / 3MHz / 64QAM

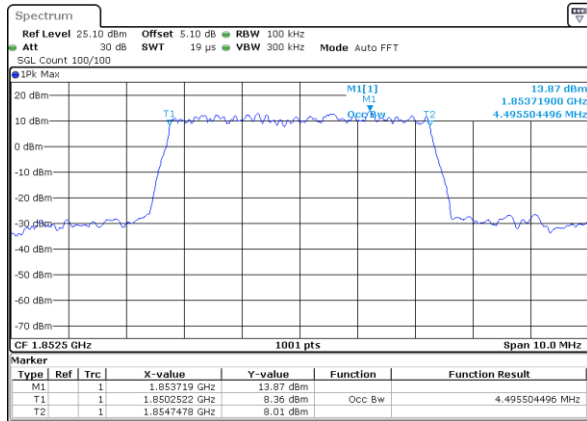


Date: 7 MAY 2018 14:24:19

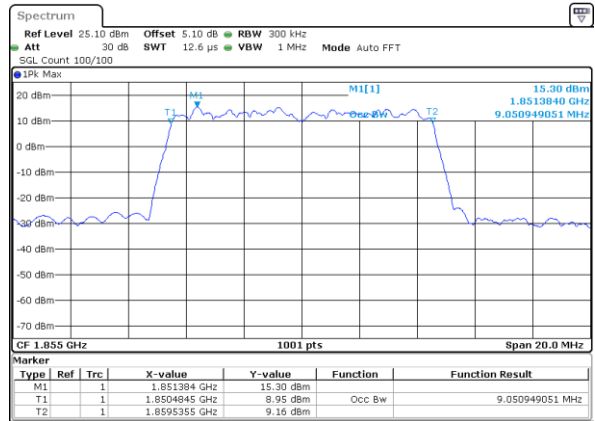


LTE Band 2

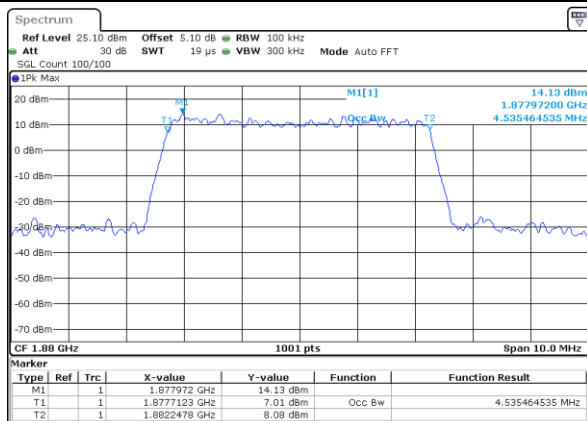
Lowest Channel / 5MHz / 64QAM



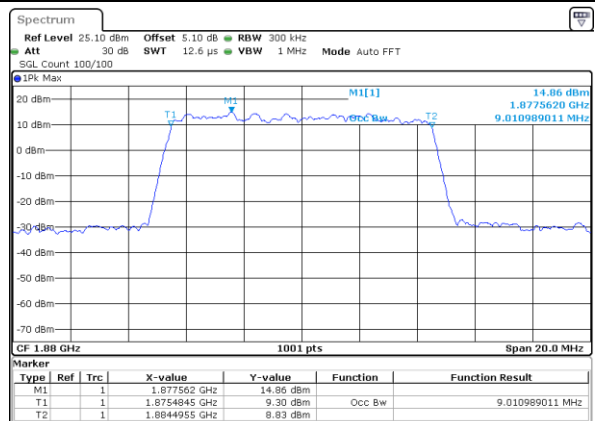
Lowest Channel / 10MHz / 64QAM



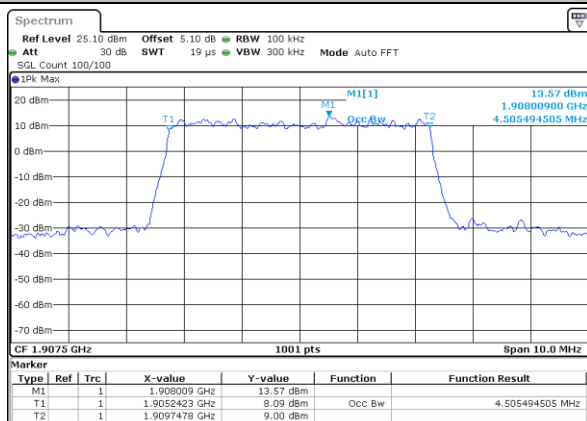
Middle Channel / 5MHz / 64QAM



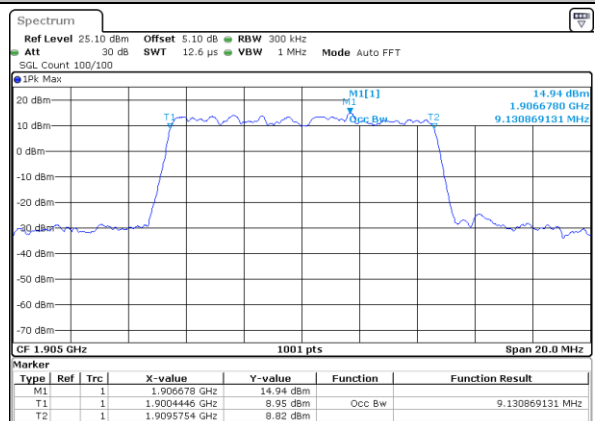
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



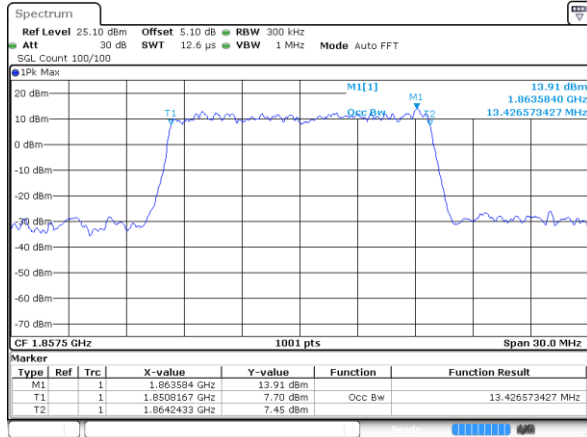
Highest Channel / 10MHz / 64QAM



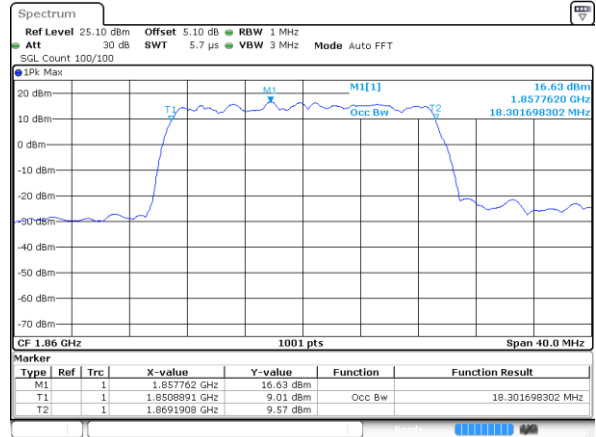


LTE Band 2

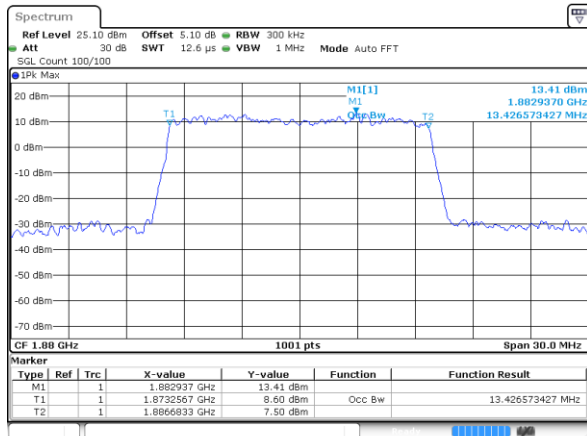
Lowest Channel / 15MHz / 64QAM



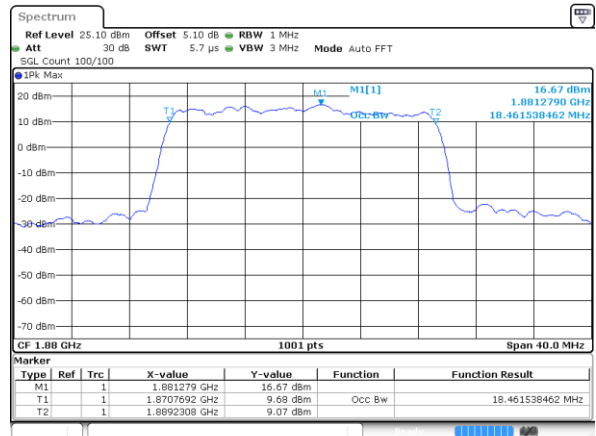
Lowest Channel / 20MHz / 64QAM



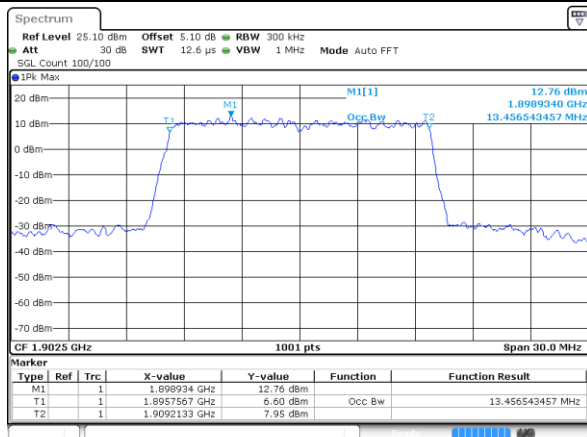
Middle Channel / 15MHz / 64QAM



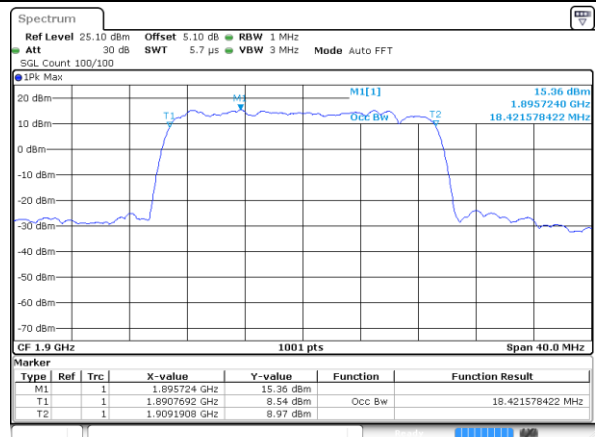
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



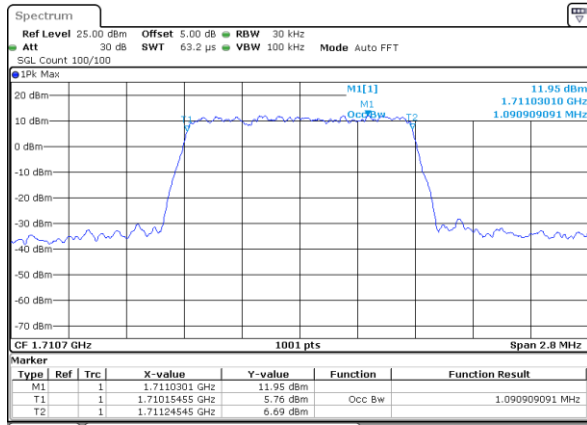
Highest Channel / 20MHz / 64QAM





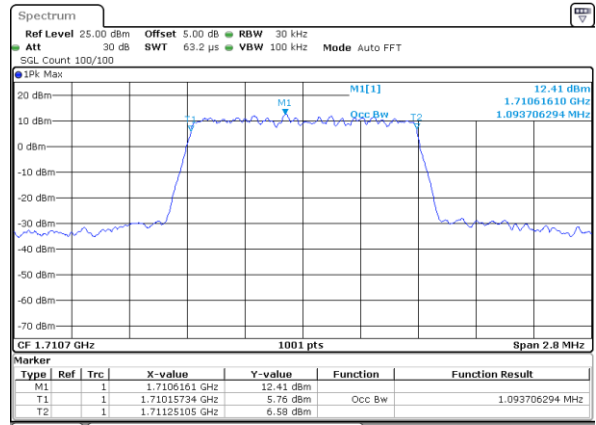
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



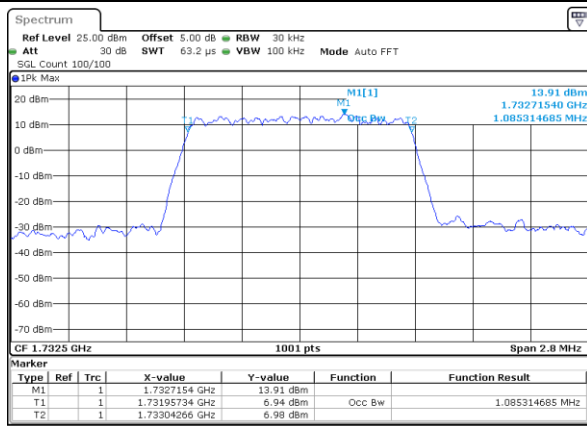
Date: 7 MAY 2018 14:26:34

Lowest Channel / 1.4MHz / 16QAM



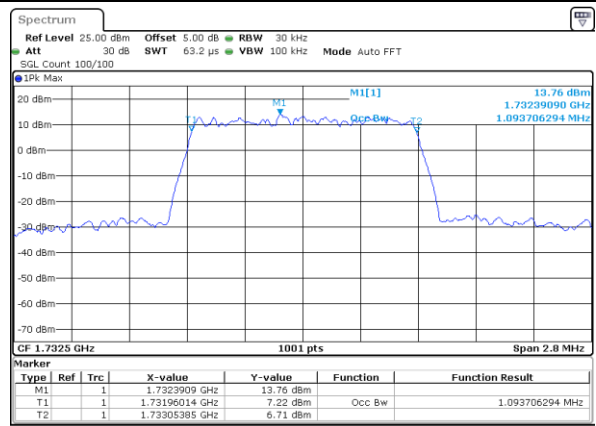
Date: 7 MAY 2018 14:26:44

Middle Channel / 1.4MHz / QPSK



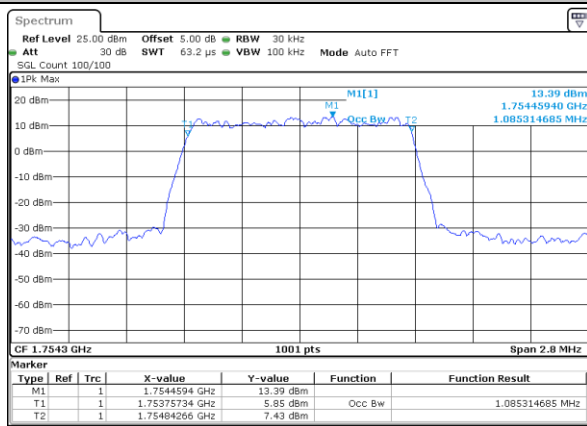
Date: 7 MAY 2018 14:33:35

Middle Channel / 1.4MHz / 16QAM



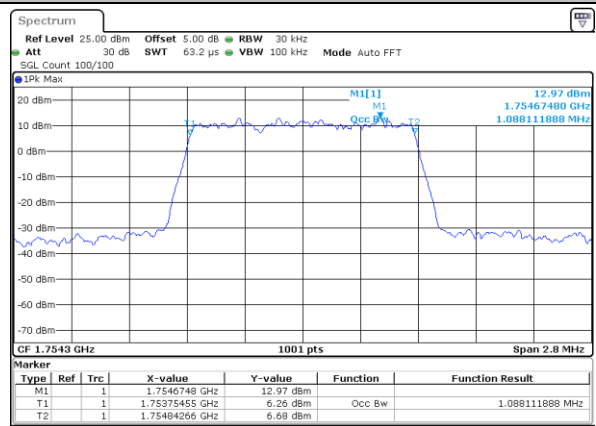
Date: 7 MAY 2018 14:33:45

Highest Channel / 1.4MHz / QPSK



Date: 7 MAY 2018 14:36:04

Highest Channel / 1.4MHz / 16QAM



Date: 7 MAY 2018 14:36:14