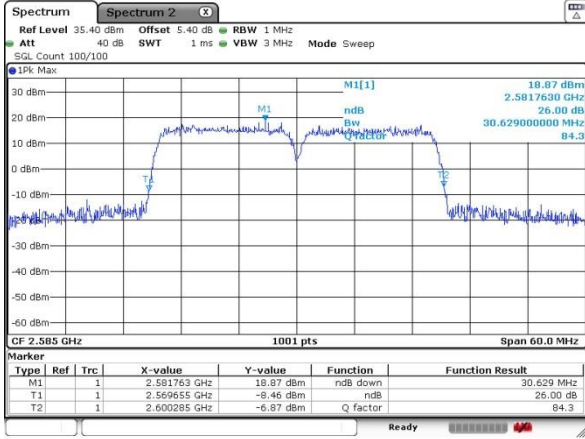




LTE Band 38

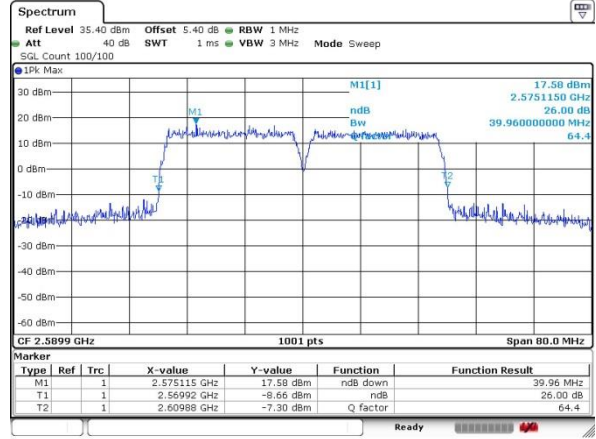
16QAM

Lowest Channel / 15MHz+15MHz



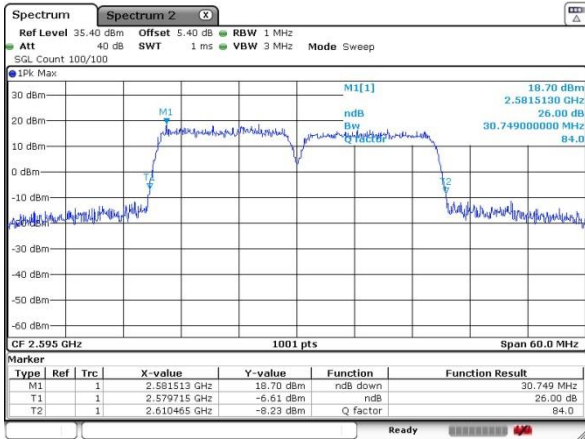
Date: 5 JUL 2016 11:34:21

Lowest Channel / 20MHz+20MHz



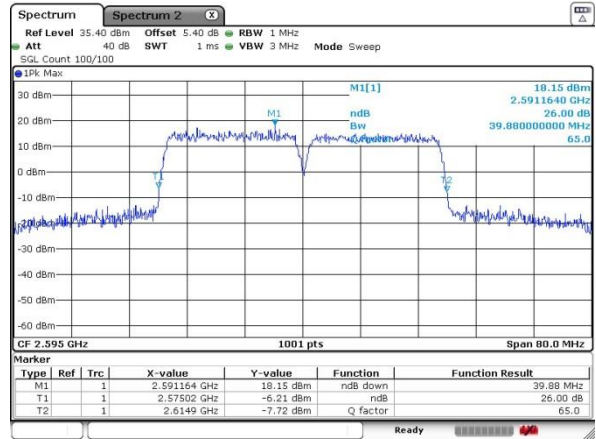
Date: 5 JUL 2016 13:57:34

Middle Channel / 15MHz+15MHz



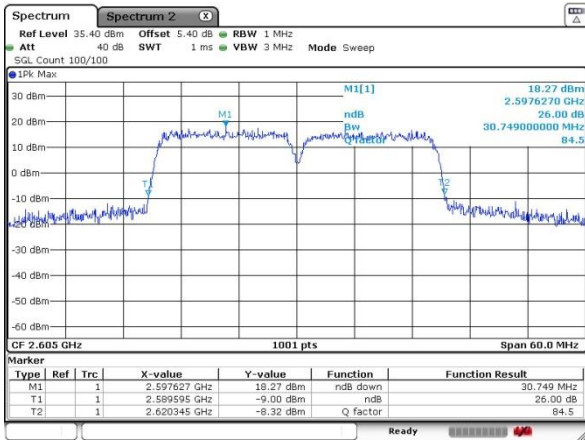
Date: 5 JUL 2016 11:37:04

Middle Channel / 20MHz+20MHz



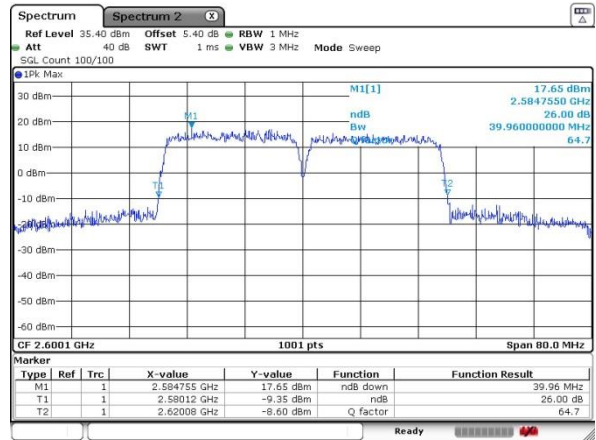
Date: 5 JUL 2016 11:24:33

Highest Channel / 15MHz+15MHz



Date: 5 JUL 2016 11:40:20

Highest Channel / 20MHz+20MHz



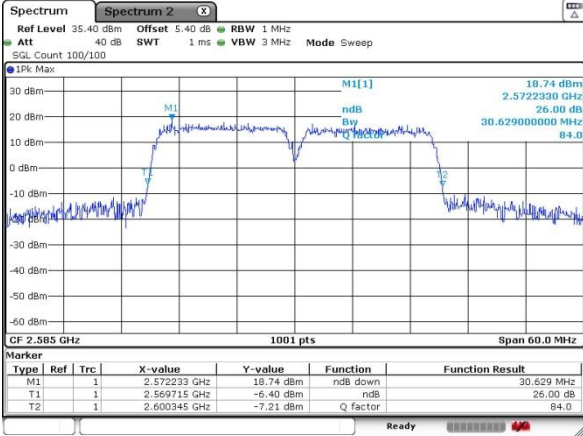
Date: 5 JUL 2016 11:11:36



LTE Band 38

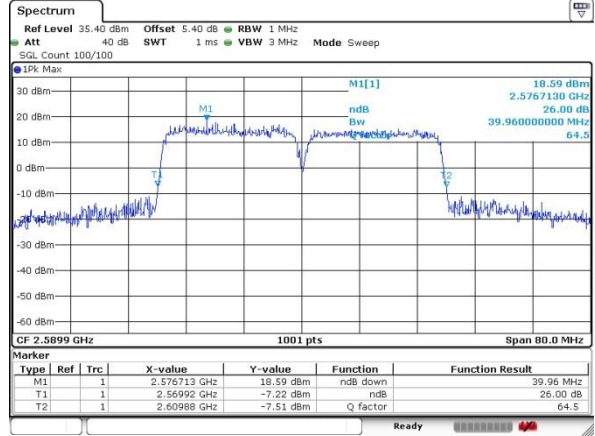
64QAM

Lowest Channel / 15MHz+15MHz



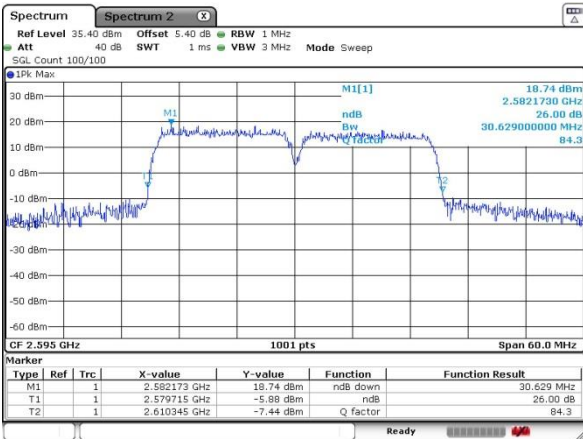
Date: 5 JUL 2016 11:32:38

Lowest Channel / 20MHz+20MHz



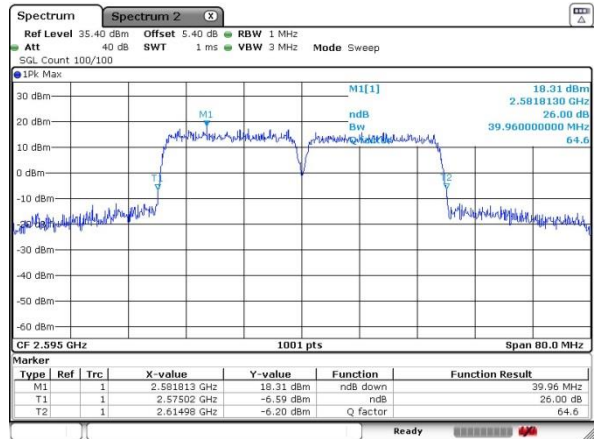
Date: 5 JUL 2016 13:58:11

Middle Channel / 15MHz+15MHz



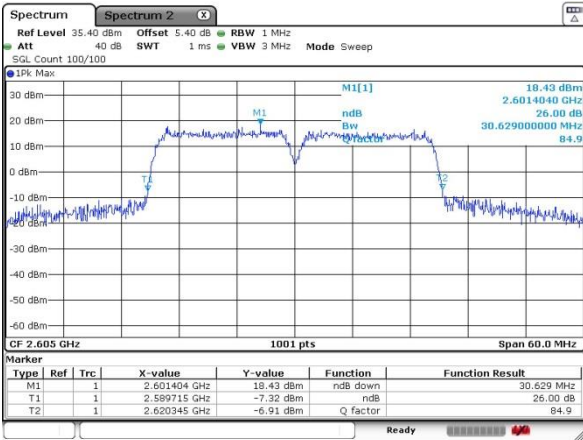
Date: 5 JUL 2016 11:38:20

Middle Channel / 20MHz+20MHz



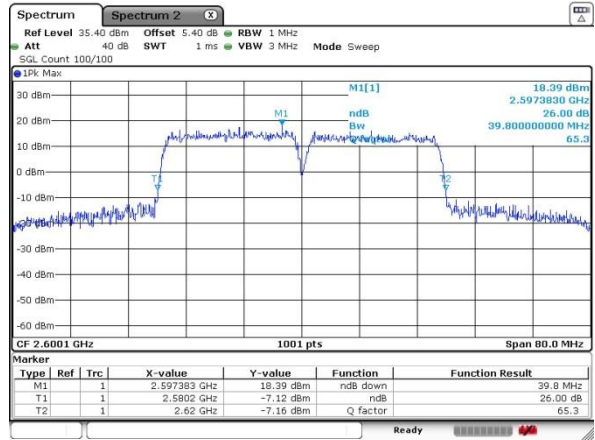
Date: 5 JUL 2016 11:22:57

Highest Channel / 15MHz+15MHz



Date: 5 JUL 2016 11:39:11

Highest Channel / 20MHz+20MHz



Date: 5 JUL 2016 11:21:16



Occupied Bandwidth

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	2.73	2.75	4.49	4.49	9.03	9.01	13.46	13.43	18.26	18.18
Middle CH	1.09	1.09	2.72	2.72	4.49	4.52	9.01	9.01	13.46	13.40	18.22	18.34
Highest CH	1.09	1.09	2.71	2.73	4.50	4.50	9.07	9.03	13.46	13.43	18.54	18.34
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.73		4.49		8.99		13.46		18.46	
Middle CH	1.09		2.72		4.49		9.01		13.43		18.18	
Highest CH	1.09		2.73		4.50		9.05		13.43		18.26	

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

Mode	LTE Band 7 : 99%OBW(MHz)											
BW					5MHz		10MHz		15MHz		20MHz	
Mod.					QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					4.50	4.49	9.01	9.03	13.52	13.40	18.38	18.30
Middle CH					4.50	4.48	8.99	9.01	13.43	13.40	18.26	18.30
Highest CH					4.49	4.50	9.01	9.03	13.40	13.40	18.42	18.30
BW					5MHz		10MHz		15MHz		20MHz	
Mod.					64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.48		9.01		13.46		18.34	
Middle CH					4.51		9.05		13.46		18.22	
Highest CH					4.51		9.09		13.52		18.30	



Mode	LTE Band 38 : 99%OBW(MHz)											
BW				5MHz		10MHz		15MHz		20MHz		
Mod.				QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Lowest CH				4.49	4.50	9.01	9.01	13.40	13.43	18.42	18.34	
Middle CH				4.50	4.50	9.03	9.07	13.55	13.40	18.34	18.30	
Highest CH				4.50	4.51	8.97	9.03	13.37	13.43	18.34	18.54	
BW				5MHz		10MHz		15MHz		20MHz		
Mod.				64QAM		64QAM		64QAM		64QAM		
Lowest CH				4.49		9.05		13.52		18.34		
Middle CH				4.52		9.03		13.43		18.26		
Highest CH				4.50		8.93		13.37		18.42		



For CA

Mode	LTE Band 7 : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	-	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.99	-	23.48	28.53
Middle CH	27.87	-	23.43	28.41
Highest CH	28.05	-	23.38	28.65
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.87	28.17	33.01	37.64
Middle CH	32.59	27.93	32.59	37.56
Highest CH	32.73	28.11	32.80	37.64

Mode	LTE Band 7 : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	-	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.99	-	23.53	28.59
Middle CH	27.93	-	23.43	28.41
Highest CH	28.05	-	23.43	28.65
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.73	27.99	32.66	37.64
Middle CH	32.59	27.99	32.80	37.56
Highest CH	33.01	28.11	32.94	37.80

Mode	LTE Band 7 : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	-	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.93	-	23.48	28.47
Middle CH	27.87	-	23.38	28.41
Highest CH	27.93	-	23.38	28.59
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.73	27.99	32.80	37.64
Middle CH	32.66	27.87	32.66	37.48
Highest CH	32.73	28.05	32.87	37.72



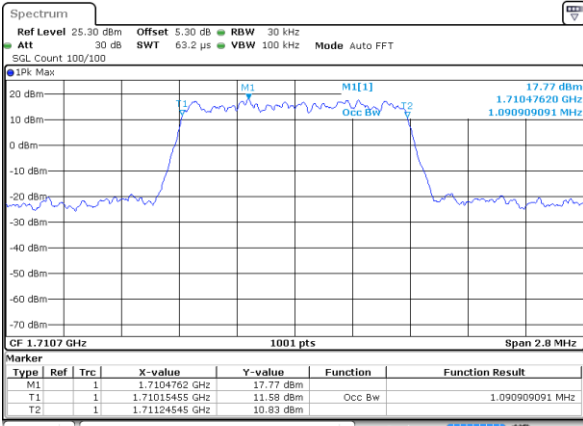
Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	QPSK		16QAM	
BW	15MHz+15MHz	20MHz+20MHz	15MHz+15MHz	20MHz+20MHz
Lowest CH	28.65	37.72	28.65	37.80
Middle CH	28.59	37.72	28.71	37.88
Highest CH	28.65	37.80	28.71	37.80

Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	64QAM		-	
BW	15MHz+15MHz	20MHz+20MHz	-	-
Lowest CH	28.65	37.72	-	-
Middle CH	28.59	37.72	-	-
Highest CH	28.71	37.80	-	--



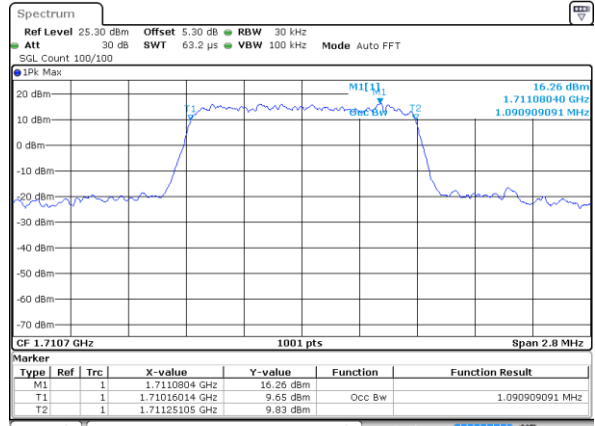
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



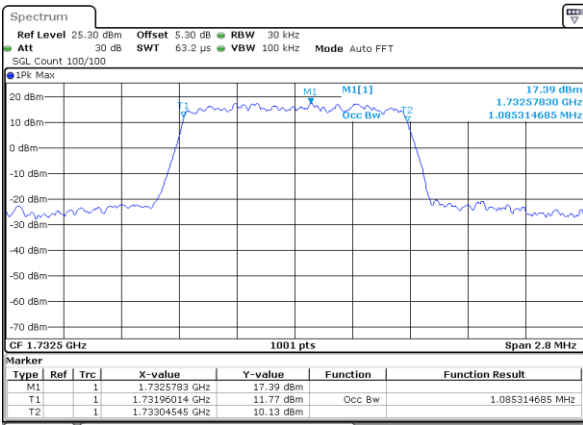
Date: 29 JUN 2018 15:21:29

Lowest Channel / 1.4MHz / 16QAM



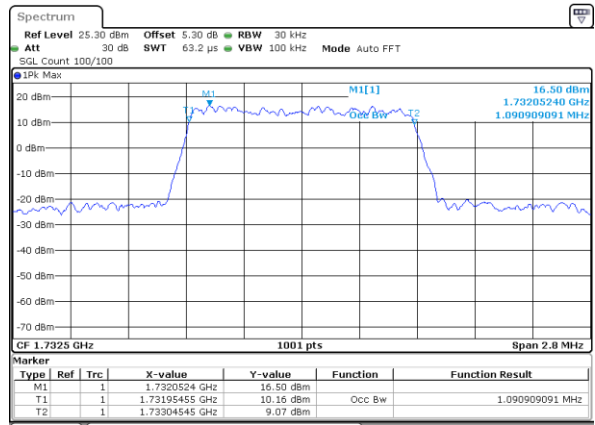
Date: 29 JUN 2018 15:21:39

Middle Channel / 1.4MHz / QPSK



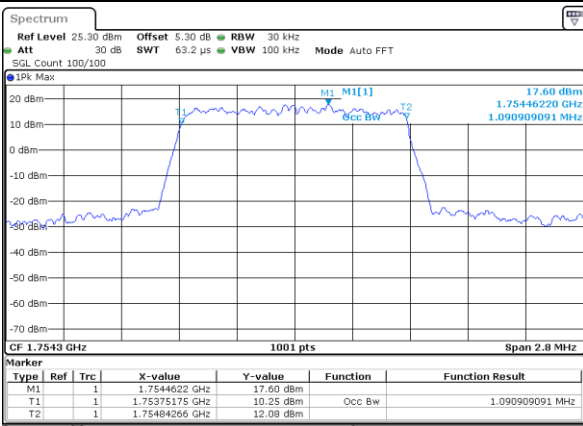
Date: 29 JUN 2018 15:28:28

Middle Channel / 1.4MHz / 16QAM



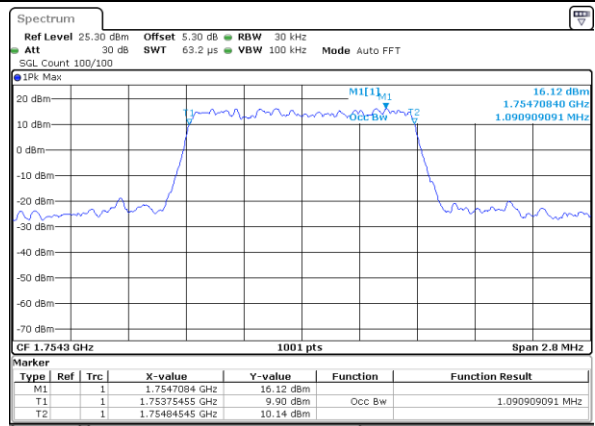
Date: 29 JUN 2018 15:28:38

Highest Channel / 1.4MHz / QPSK



Date: 29 JUN 2018 15:30:58

Highest Channel / 1.4MHz / 16QAM

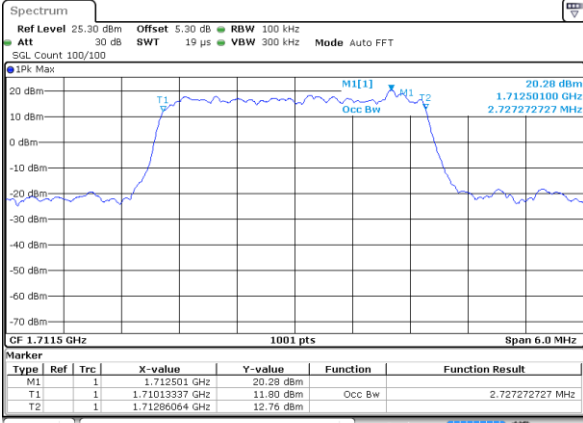


Date: 29 JUN 2018 15:31:08



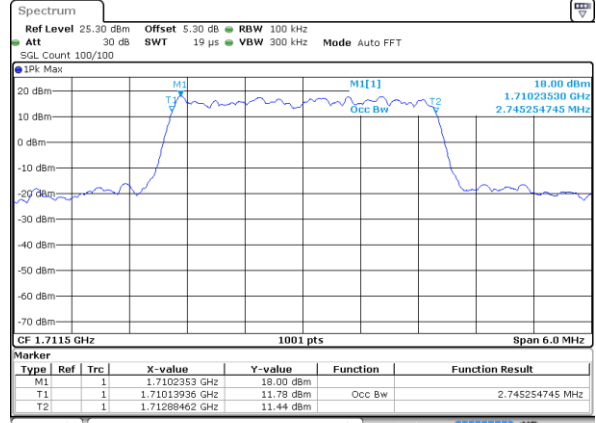
LTE Band 4

Lowest Channel / 3MHz / QPSK



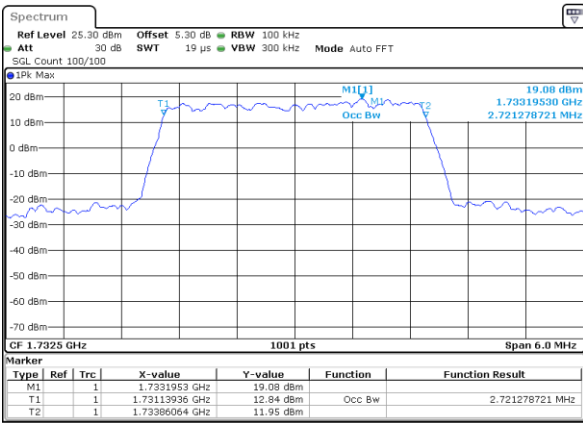
Date: 29 JUN 2018 15:37:56

Lowest Channel / 3MHz / 16QAM



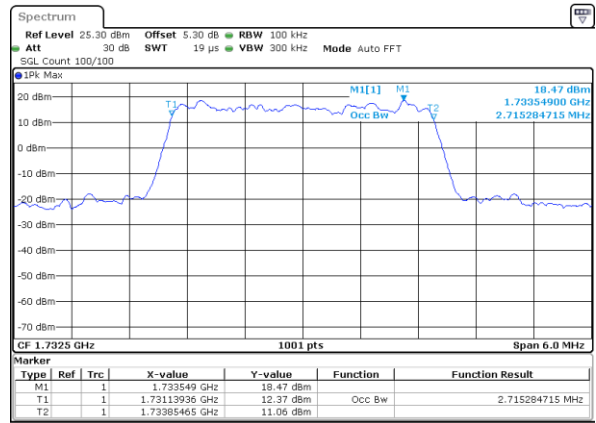
Date: 29 JUN 2018 15:38:06

Middle Channel / 3MHz / QPSK



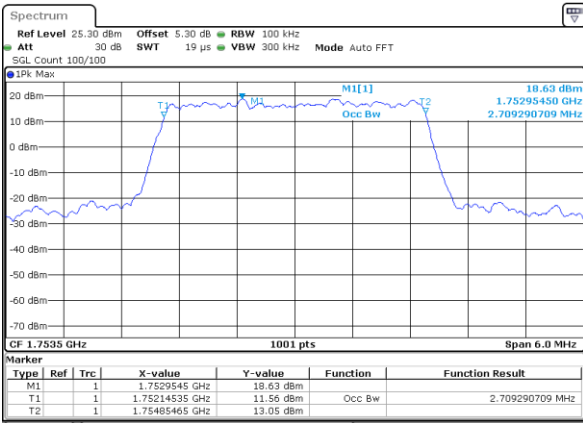
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Middle Channel / 3MHz / 16QAM



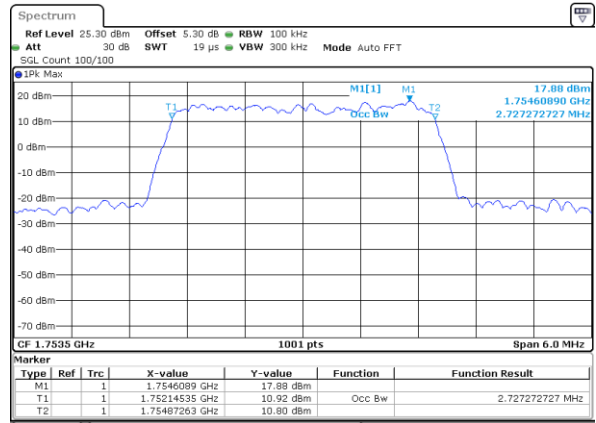
Date: 29 JUN 2018 15:45:05

Highest Channel / 3MHz / QPSK



Date: 29 JUN 2018 15:47:24

Highest Channel / 3MHz / 16QAM

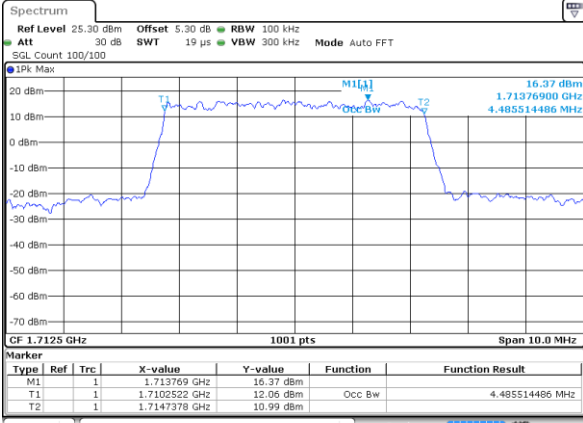


Date: 29 JUN 2018 15:47:34



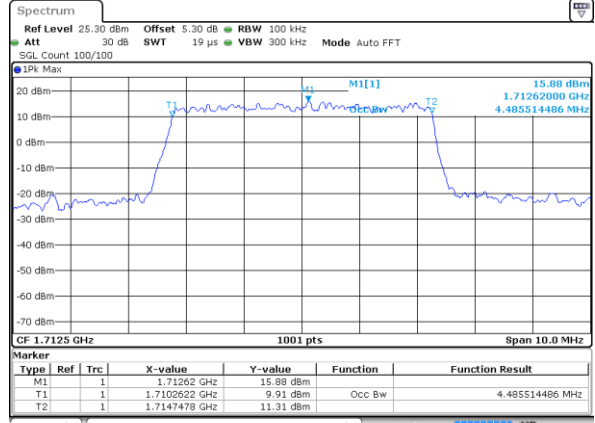
LTE Band 4

Lowest Channel / 5MHz / QPSK



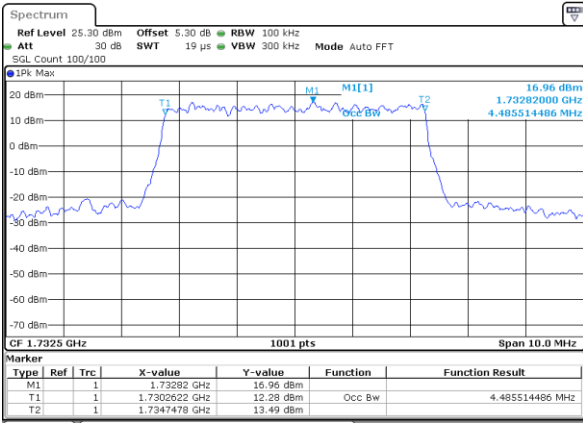
Date: 29 JUN 2018 15:54:23

Lowest Channel / 5MHz / 16QAM



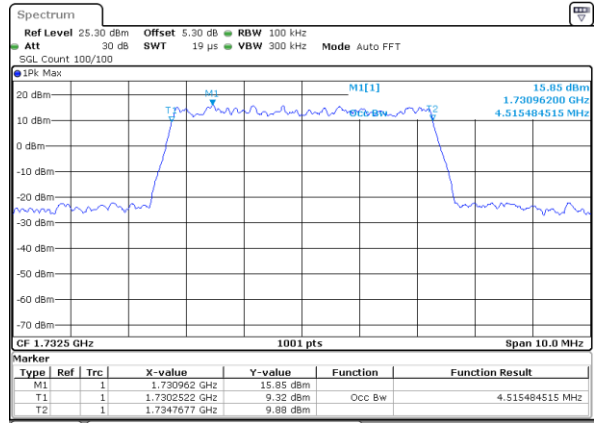
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Middle Channel / 5MHz / QPSK



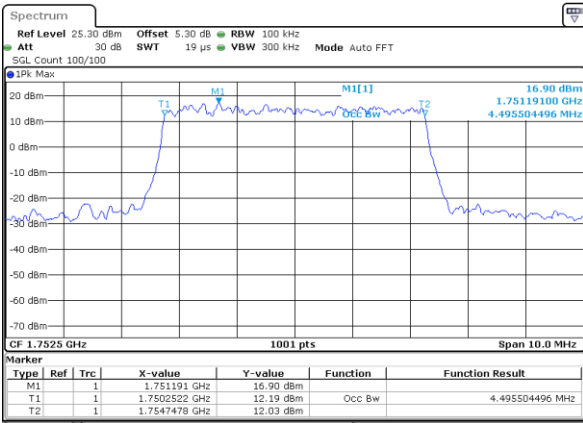
Date: 29 JUN 2018 16:01:21

Middle Channel / 5MHz / 16QAM



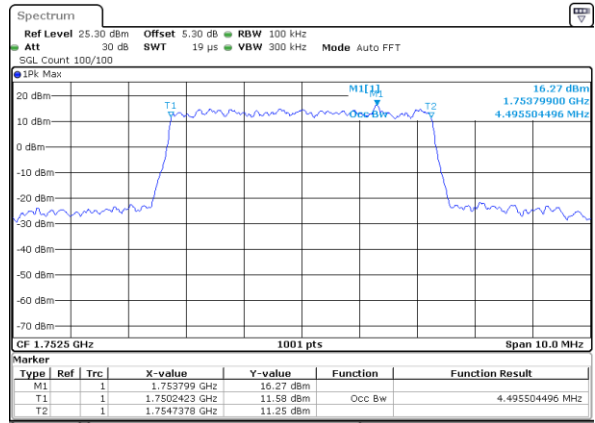
Date: 29 JUN 2018 16:01:31

Highest Channel / 5MHz / QPSK



Date: 29 JUN 2018 16:03:50

Highest Channel / 5MHz / 16QAM

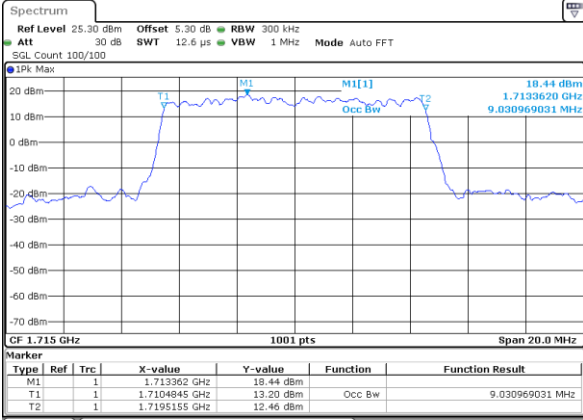


Date: 29 JUN 2018 16:04:00



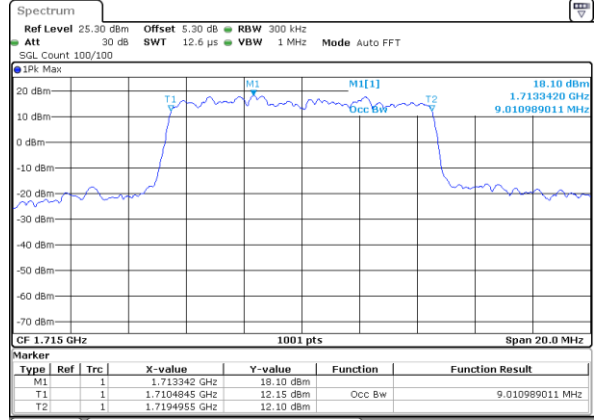
LTE Band 4

Lowest Channel / 10MHz / QPSK



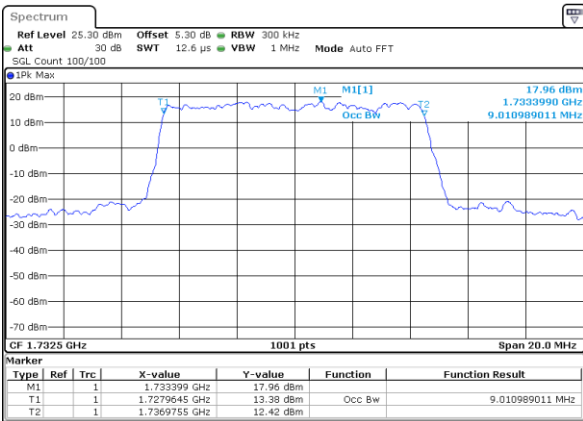
Date: 29 JUN 2018 16:10:49

Lowest Channel / 10MHz / 16QAM



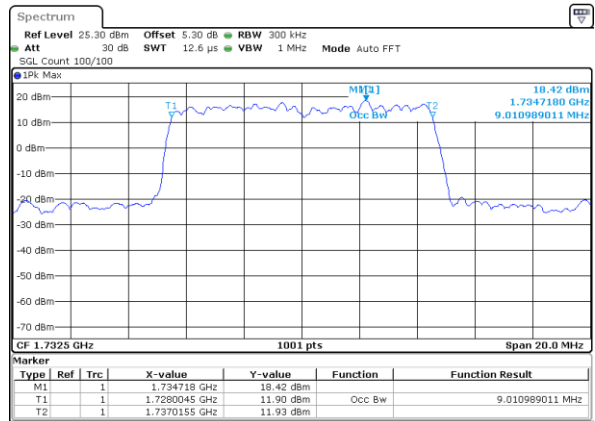
Date: 29 JUN 2018 16:10:59

Middle Channel / 10MHz / QPSK



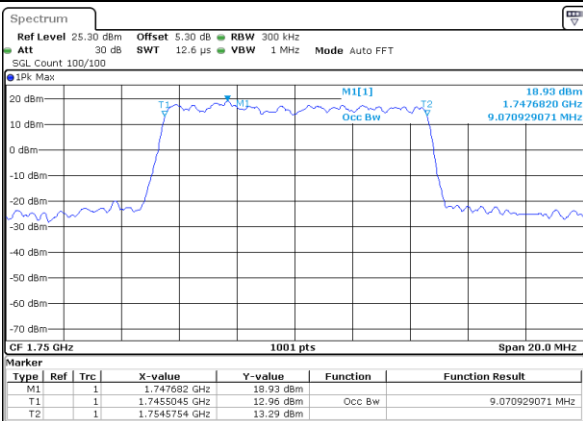
Date: 29 JUN 2018 16:17:47

Middle Channel / 10MHz / 16QAM



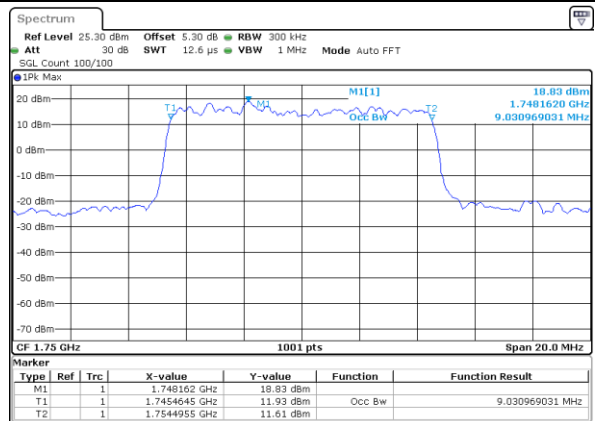
Date: 29 JUN 2018 16:17:58

Highest Channel / 10MHz / QPSK



Date: 29 JUN 2018 16:20:16

Highest Channel / 10MHz / 16QAM

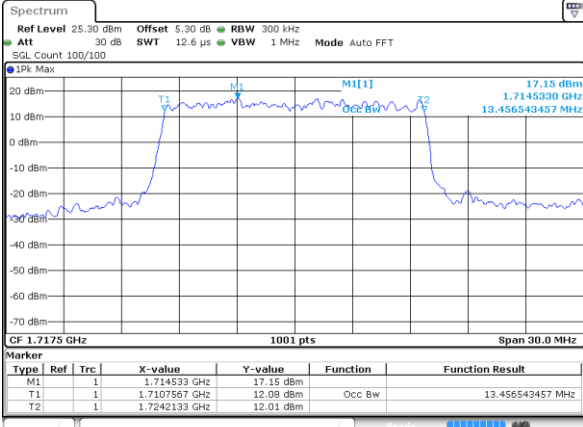


Date: 29 JUN 2018 16:20:26



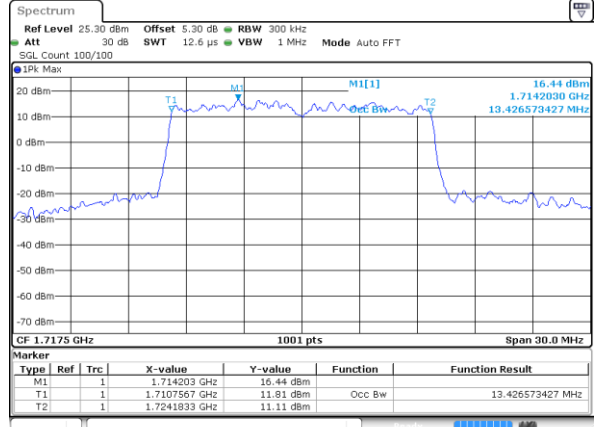
LTE Band 4

Lowest Channel / 15MHz / QPSK



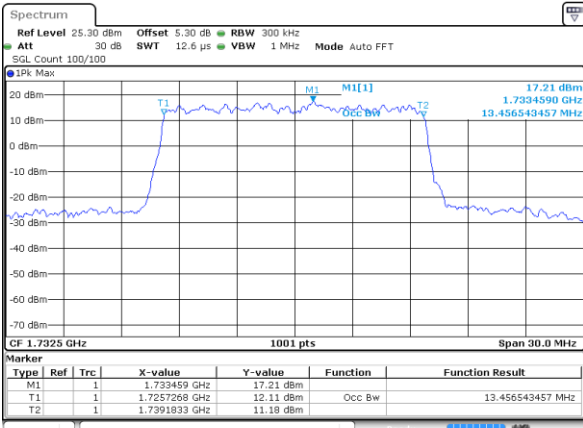
Date: 29 JUN 2018 16:27:15

Lowest Channel / 15MHz / 16QAM



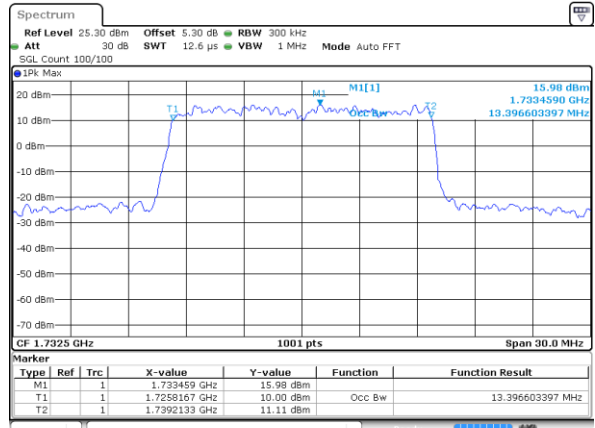
Date: 29 JUN 2018 16:27:25

Middle Channel / 15MHz / QPSK



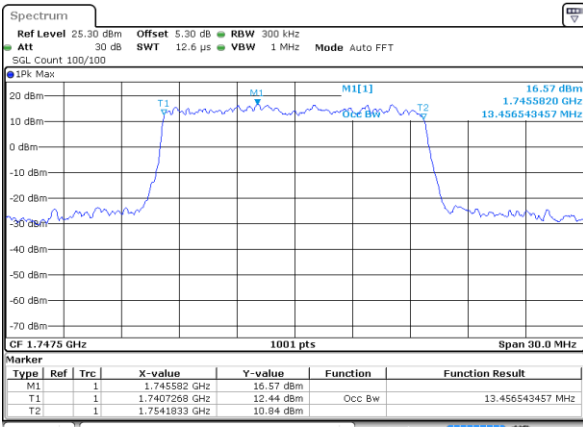
Date: 29 JUN 2018 16:34:14

Middle Channel / 15MHz / 16QAM



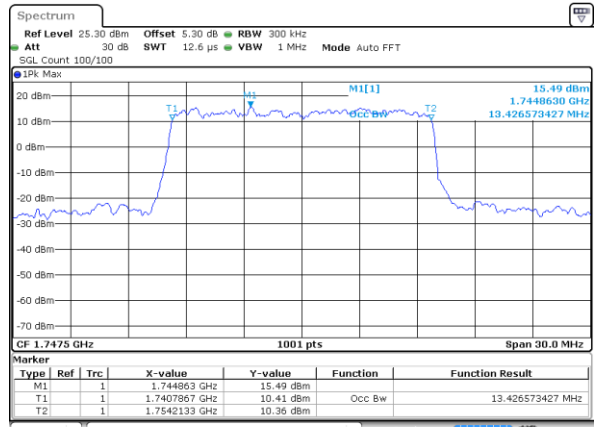
Date: 29 JUN 2018 16:34:24

Highest Channel / 15MHz / QPSK



Date: 29 JUN 2018 16:36:43

Highest Channel / 15MHz / 16QAM

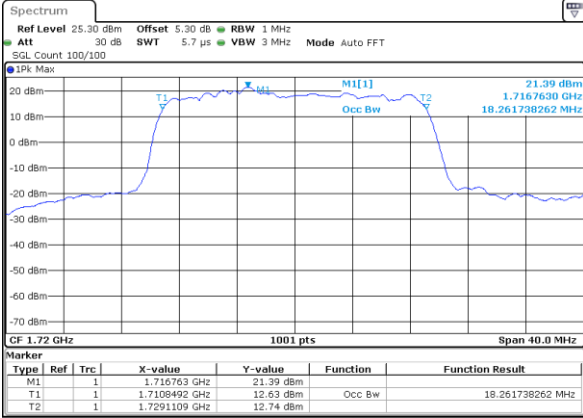


Date: 29 JUN 2018 16:36:53



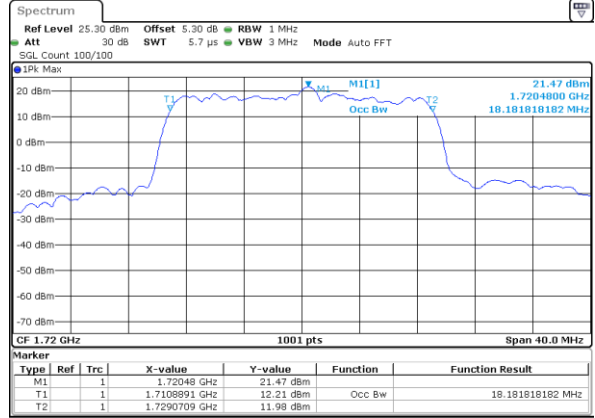
LTE Band 4

Lowest Channel / 20MHz / QPSK



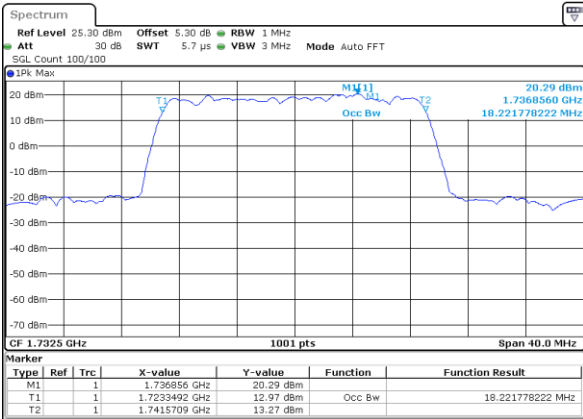
Date: 29 JUN 2018 16:43:42

Lowest Channel / 20MHz / 16QAM



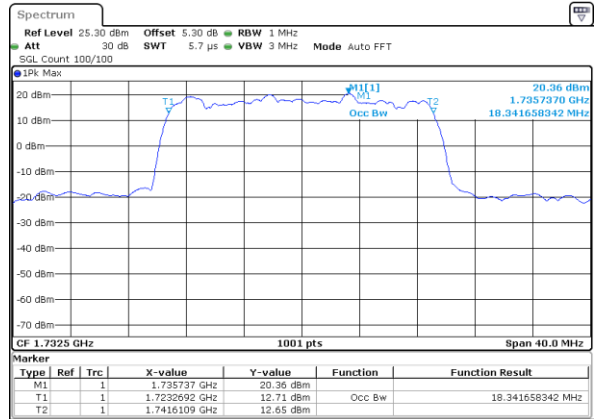
Date: 29 JUN 2018 16:43:52

Middle Channel / 20MHz / QPSK



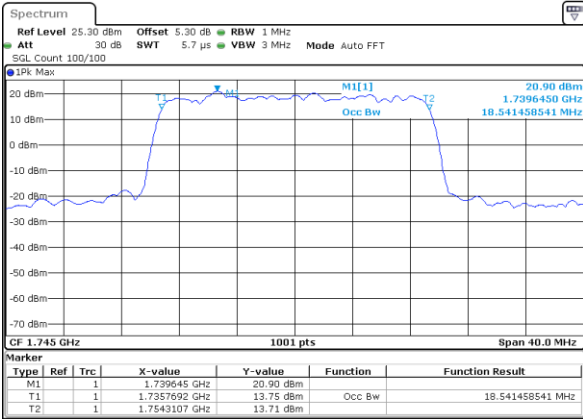
Date: 29 JUN 2018 16:50:40

Middle Channel / 20MHz / 16QAM



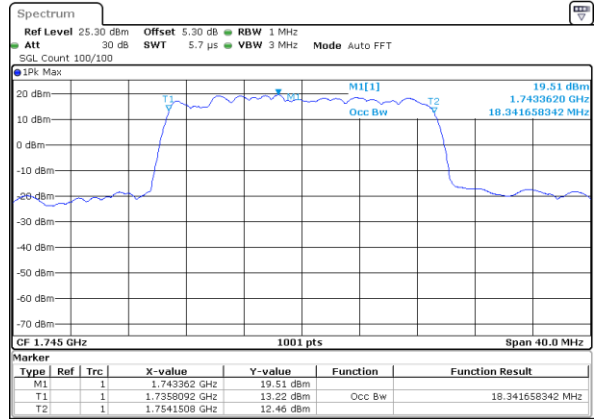
Date: 29 JUN 2018 16:50:50

Highest Channel / 20MHz / QPSK



Date: 29 JUN 2018 16:53:09

Highest Channel / 20MHz / 16QAM

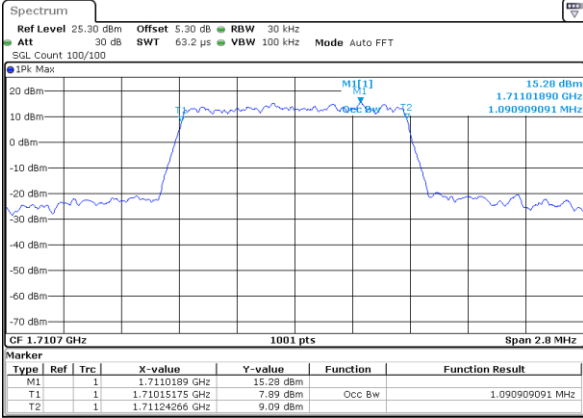


Date: 29 JUN 2018 16:53:19



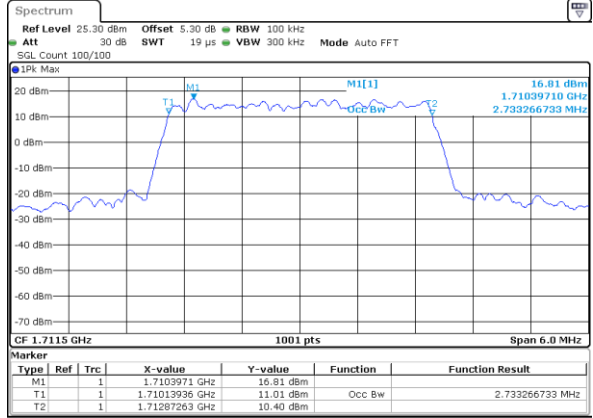
LTE Band 4

Lowest Channel / 1.4MHz / 64QAM



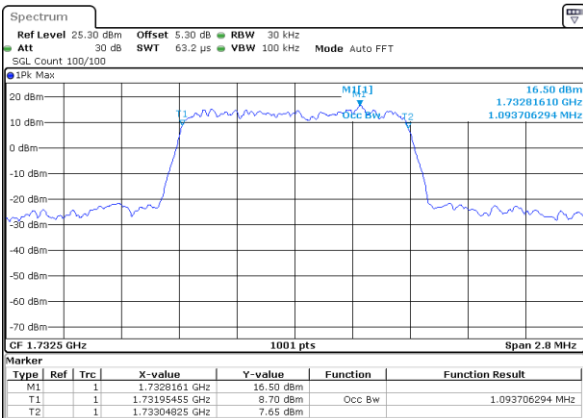
Date: 29 JUN 2018 17:02:07

Lowest Channel / 3MHz / 64QAM



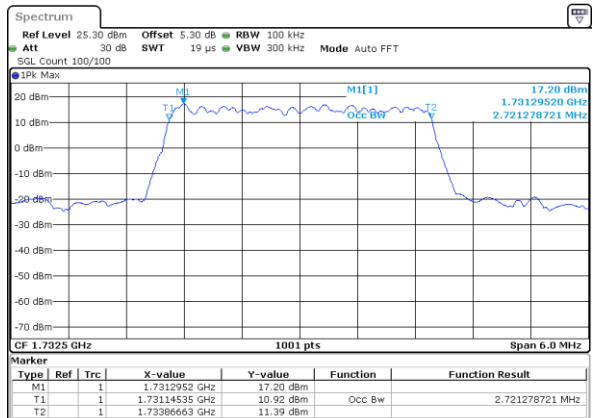
Date: 29 JUN 2018 17:03:07

Middle Channel / 1.4MHz / 64QAM



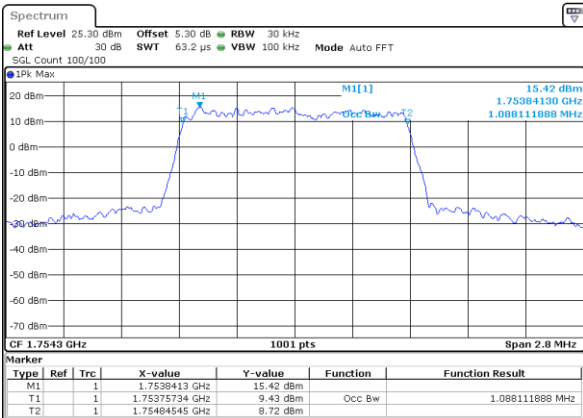
Date: 29 JUN 2018 17:02:27

Middle Channel / 3MHz / 64QAM



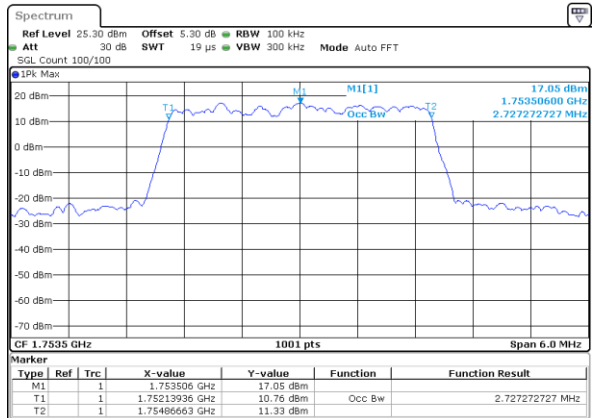
Date: 29 JUN 2018 17:03:27

Highest Channel / 1.4MHz / 64QAM



Date: 29 JUN 2018 17:02:47

Highest Channel / 3MHz / 64QAM

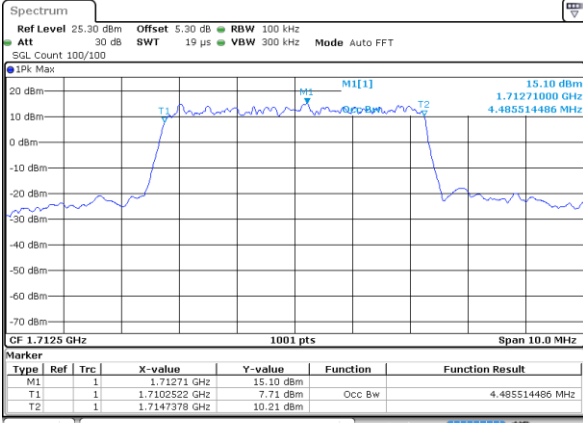


Date: 29 JUN 2018 17:03:47



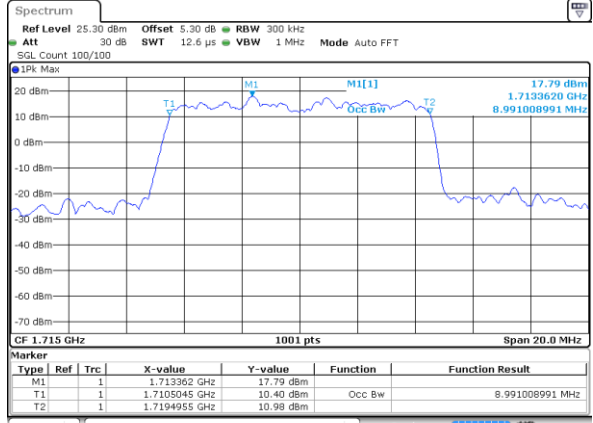
LTE Band 4

Lowest Channel / 5MHz / 64QAM



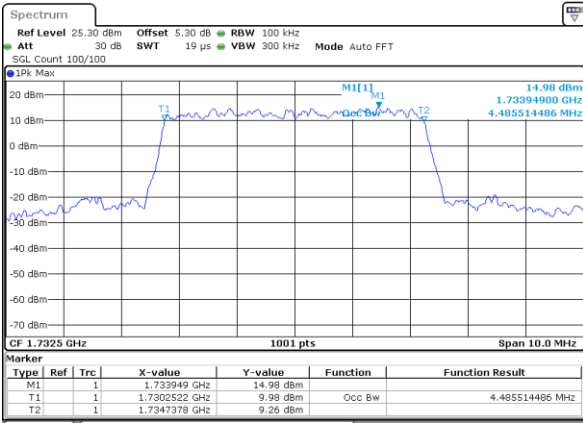
Date: 29 JUN 2018 17:04:50

Lowest Channel / 10MHz / 64QAM



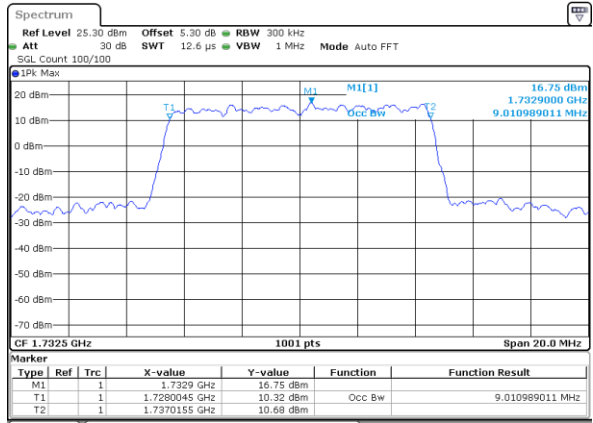
Date: 29 JUN 2018 17:05:50

Middle Channel / 5MHz / 64QAM



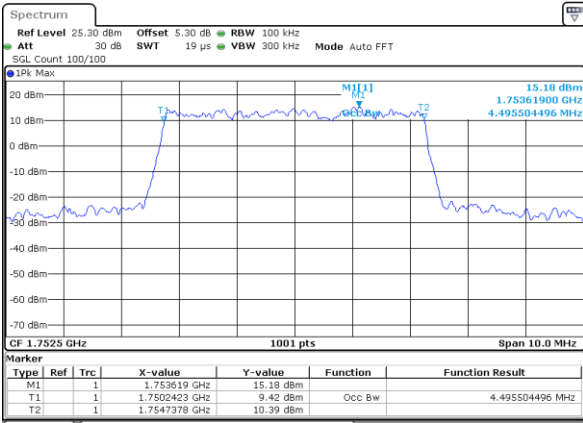
Date: 29 JUN 2018 17:05:10

Middle Channel / 10MHz / 64QAM



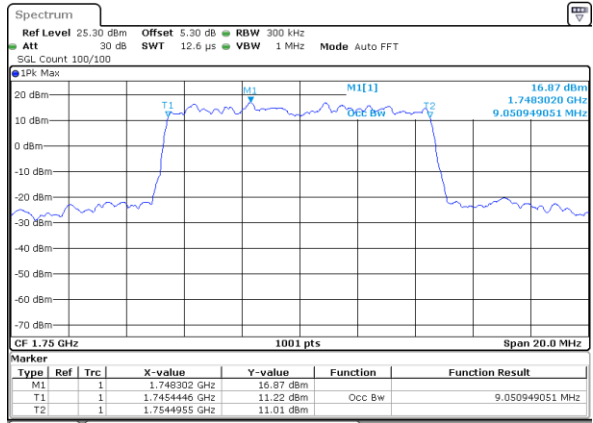
Date: 29 JUN 2018 17:06:10

Highest Channel / 5MHz / 64QAM



Date: 29 JUN 2018 17:05:30

Highest Channel / 10MHz / 64QAM

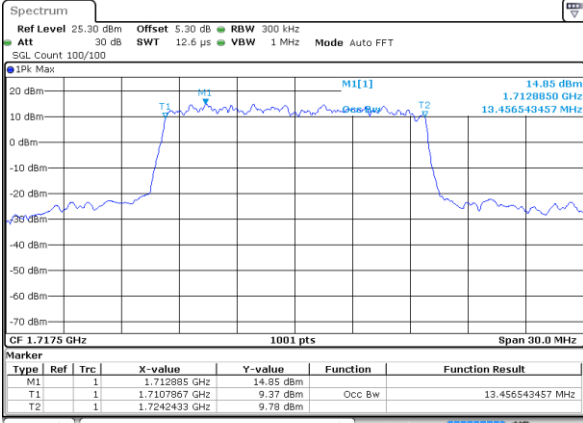


Date: 29 JUN 2018 17:06:30



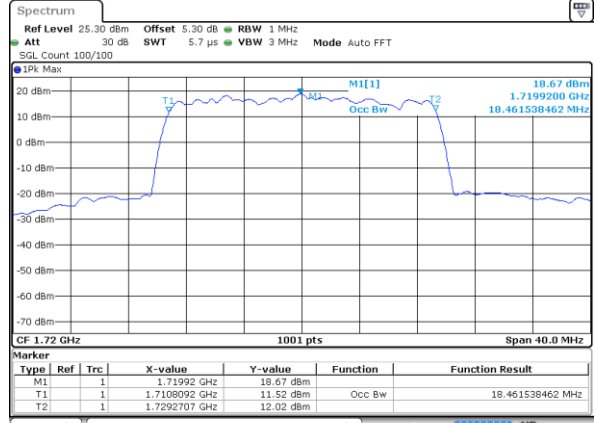
LTE Band 4

Lowest Channel / 15MHz / 64QAM



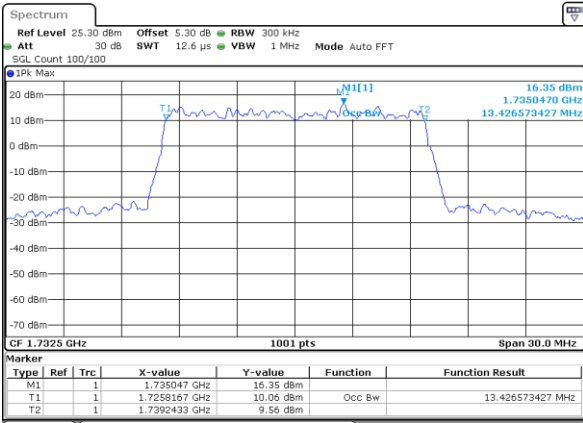
Date: 29 JUN 2018 17:06:50

Lowest Channel / 20MHz / 64QAM



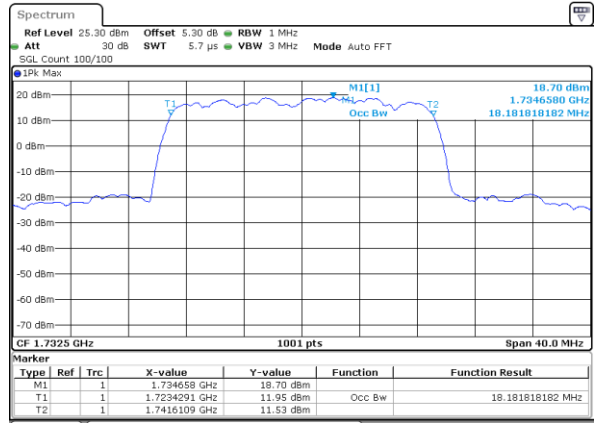
Date: 29 JUN 2018 17:07:49

Middle Channel / 15MHz / 64QAM



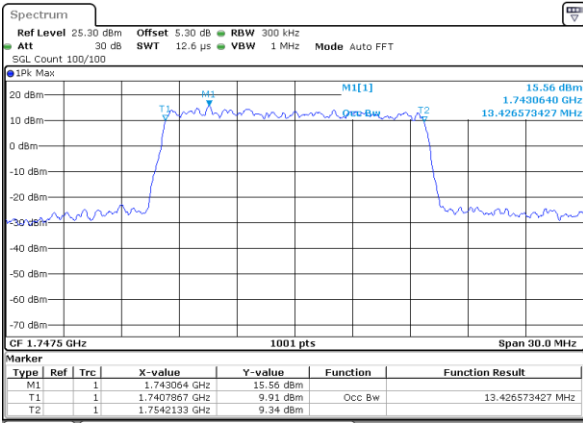
Date: 29 JUN 2018 17:07:09

Middle Channel / 20MHz / 64QAM



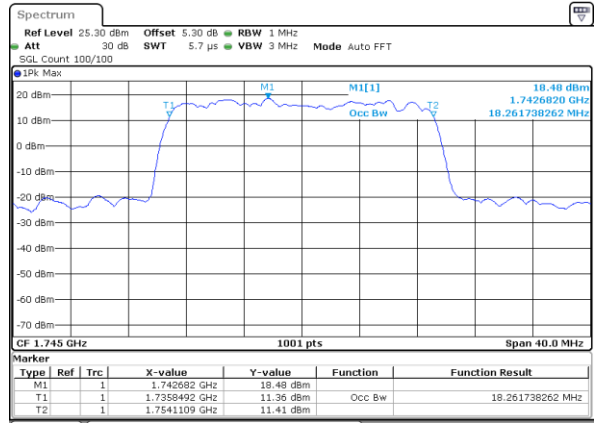
Date: 29 JUN 2018 17:08:09

Highest Channel / 15MHz / 64QAM



Date: 29 JUN 2018 17:07:29

Highest Channel / 20MHz / 64QAM

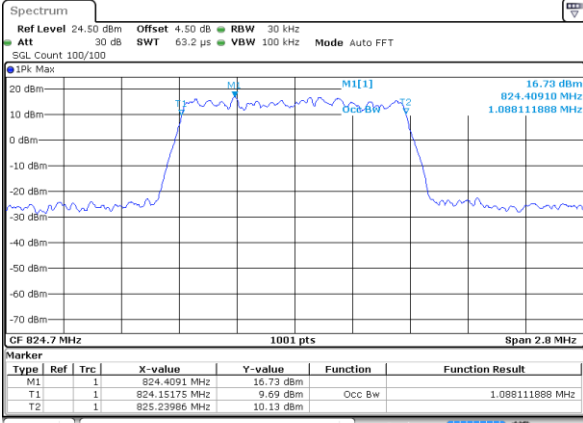


Date: 29 JUN 2018 17:08:29



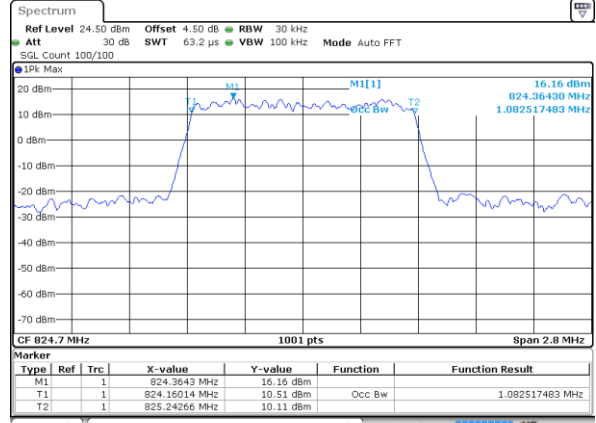
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



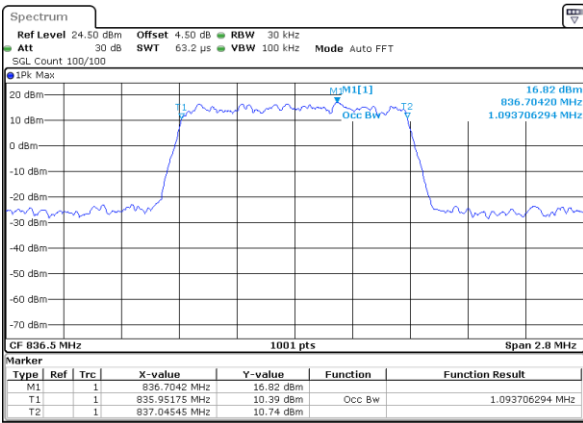
Date: 2 JUL 2018 10:55:51

Lowest Channel / 1.4MHz / 16QAM



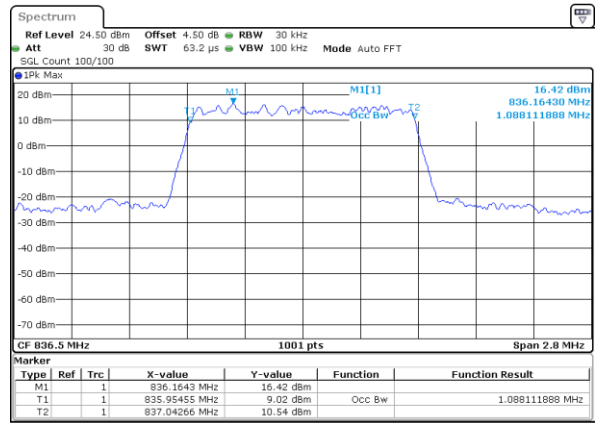
Date: 2 JUL 2018 10:56:01

Middle Channel / 1.4MHz / QPSK



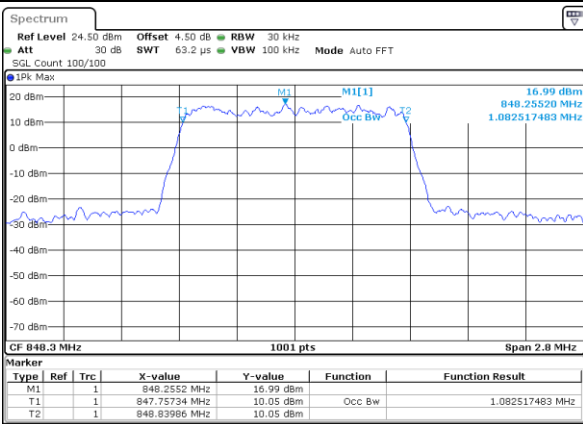
Date: 2 JUL 2018 09:37:56

Middle Channel / 1.4MHz / 16QAM



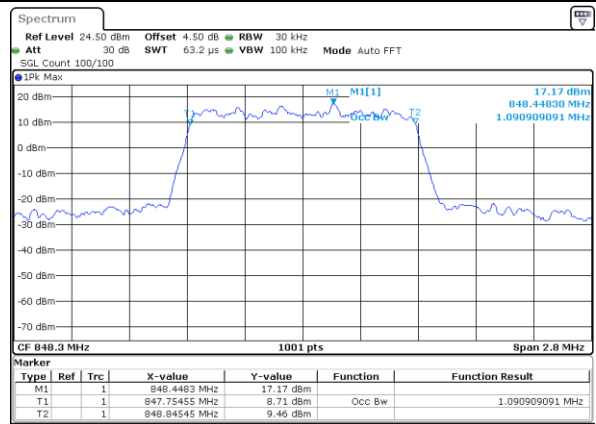
Date: 2 JUL 2018 09:38:06

Highest Channel / 1.4MHz / QPSK



Date: 2 JUL 2018 09:40:29

Highest Channel / 1.4MHz / 16QAM

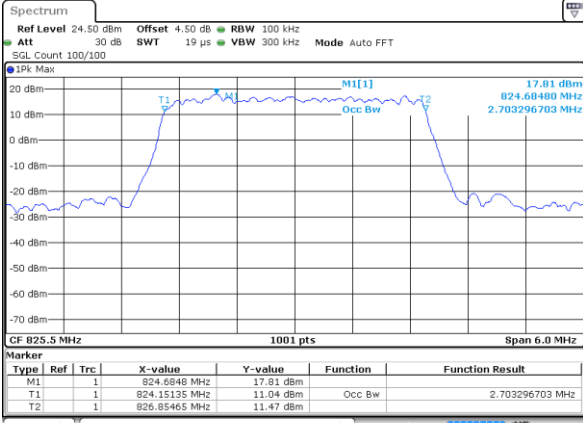


Date: 2 JUL 2018 09:40:40



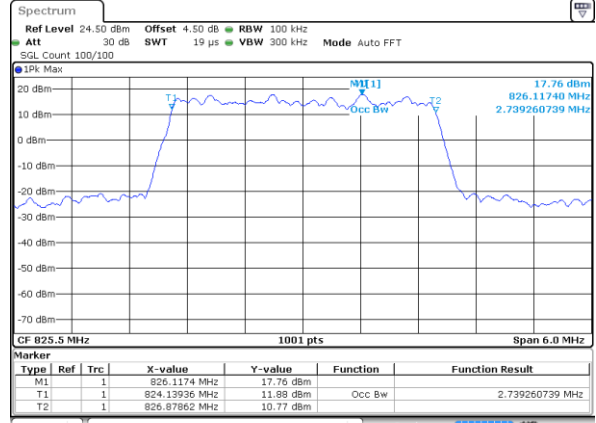
LTE Band 5

Lowest Channel / 3MHz / QPSK



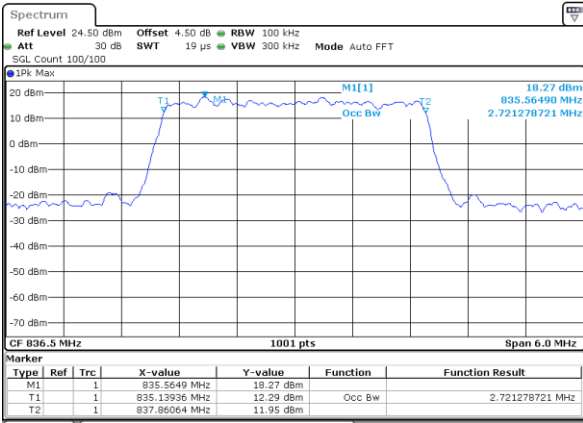
Date: 2 JUL 2018 09:49:35

Lowest Channel / 3MHz / 16QAM



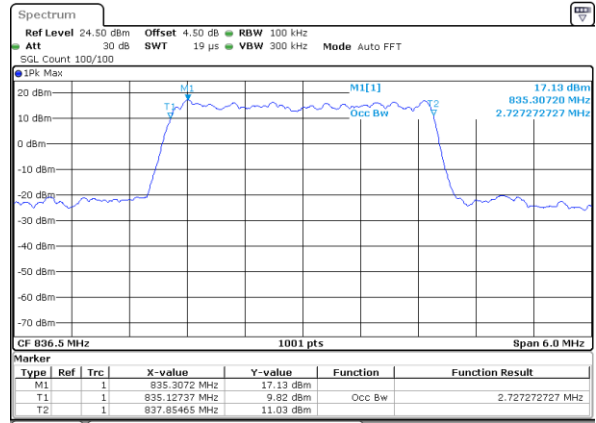
Date: 2 JUL 2018 09:49:45

Middle Channel / 3MHz / QPSK



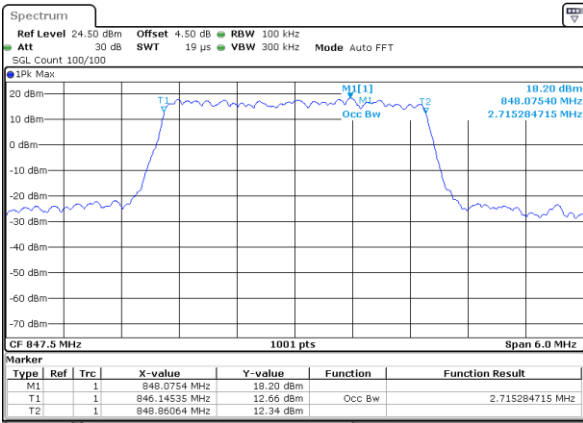
Date: 2 JUL 2018 09:58:41

Middle Channel / 3MHz / 16QAM



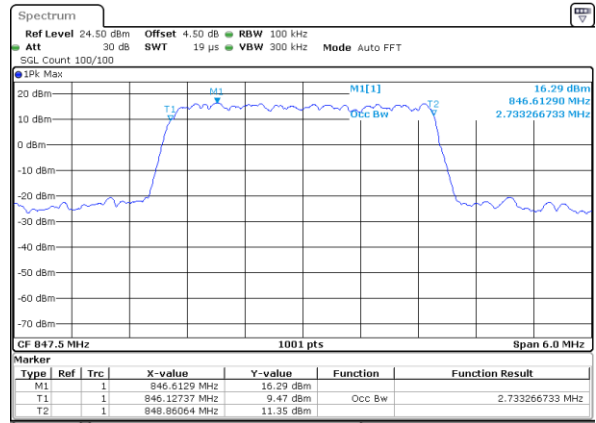
Date: 2 JUL 2018 09:58:51

Highest Channel / 3MHz / QPSK



Date: 2 JUL 2018 10:01:14

Highest Channel / 3MHz / 16QAM

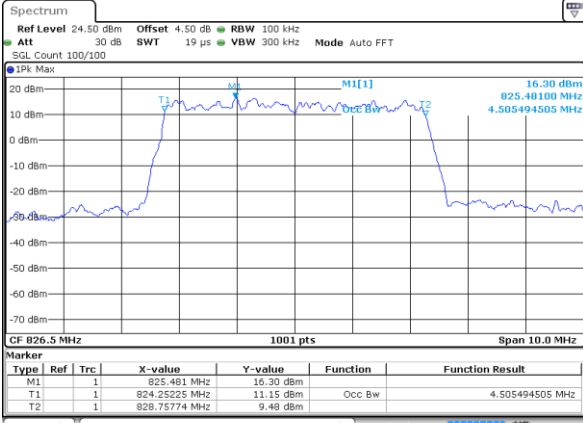


Date: 2 JUL 2018 10:01:25



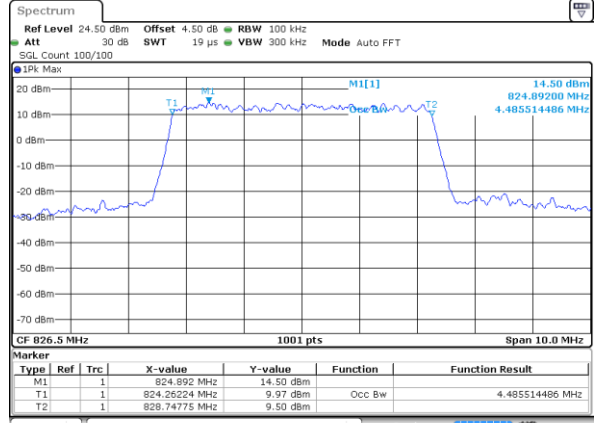
LTE Band 5

Lowest Channel / 5MHz / QPSK



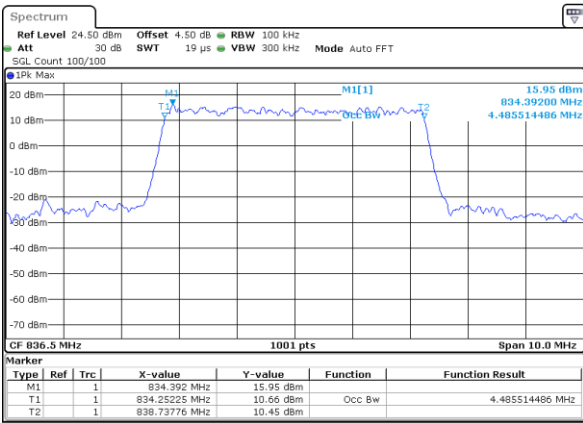
Date: 2 JUL 2018 10:10:20

Lowest Channel / 5MHz / 16QAM



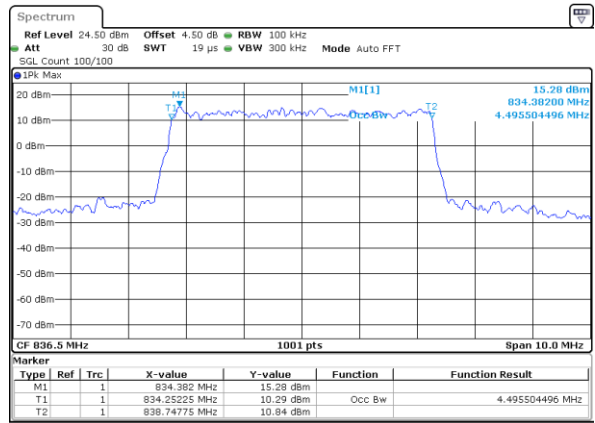
Date: 2 JUL 2018 10:10:31

Middle Channel / 5MHz / QPSK



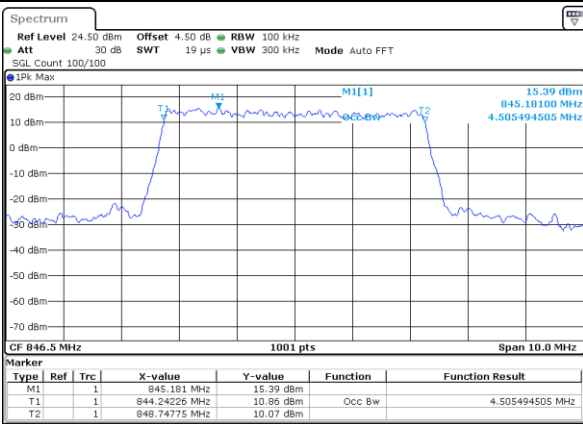
Date: 2 JUL 2018 10:19:26

Middle Channel / 5MHz / 16QAM



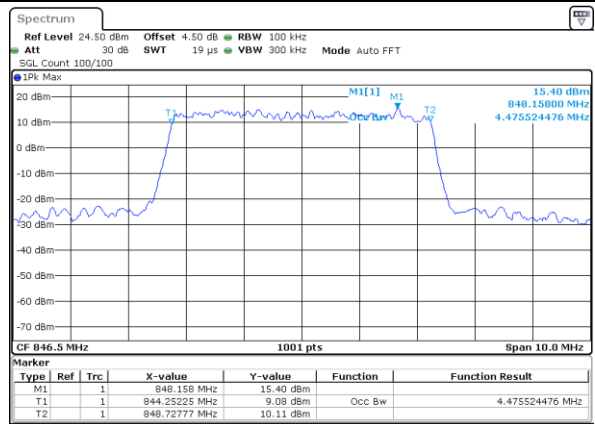
Date: 2 JUL 2018 10:19:36

Highest Channel / 5MHz / QPSK



Date: 2 JUL 2018 10:21:59

Highest Channel / 5MHz / 16QAM

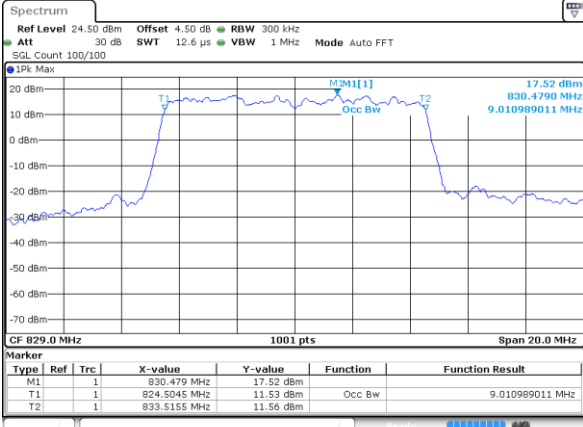


Date: 2 JUL 2018 10:22:10



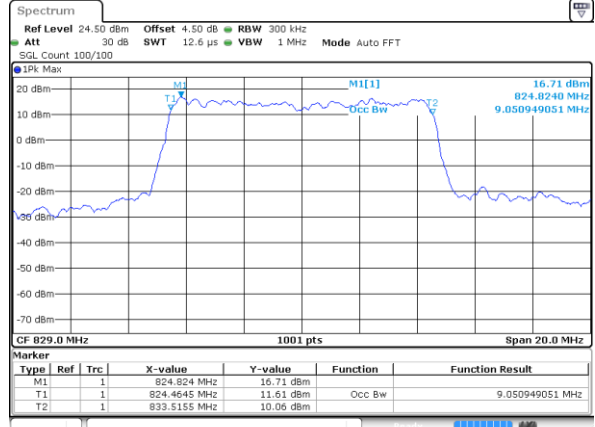
LTE Band 5

Lowest Channel / 10MHz / QPSK



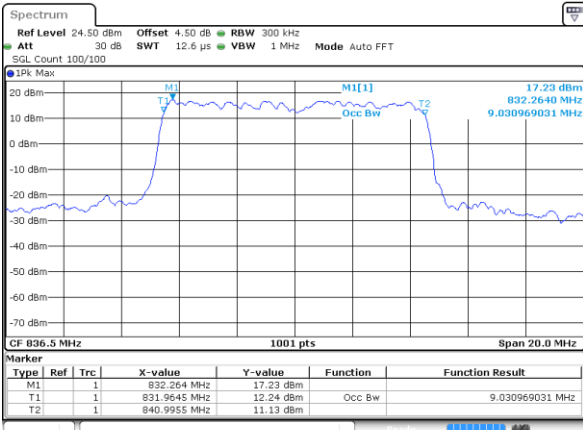
Date: 2 JUL 2018 10:31:05

Lowest Channel / 10MHz / 16QAM



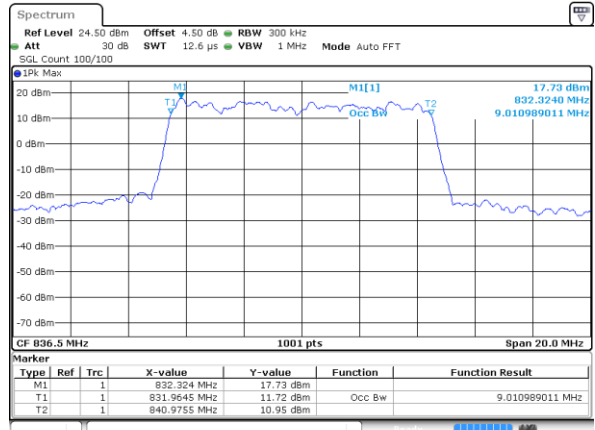
Date: 2 JUL 2018 10:31:16

Middle Channel / 10MHz / QPSK



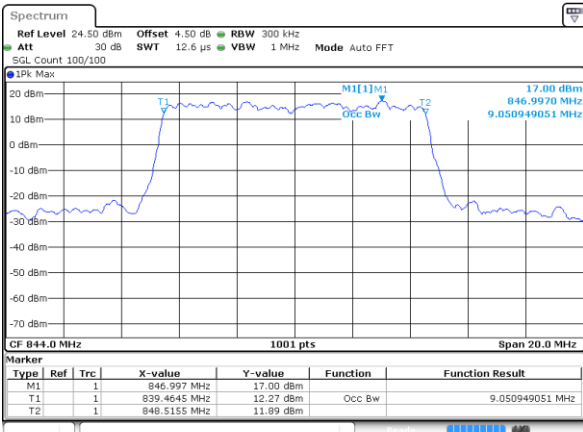
Date: 2 JUL 2018 10:40:11

Middle Channel / 10MHz / 16QAM



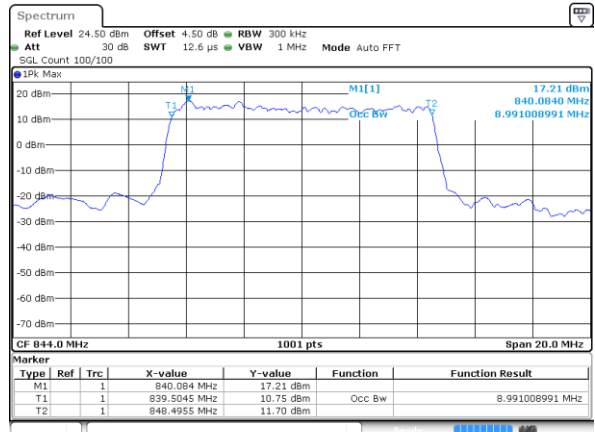
Date: 2 JUL 2018 10:40:21

Highest Channel / 10MHz / QPSK



Date: 2 JUL 2018 10:42:44

Highest Channel / 10MHz / 16QAM

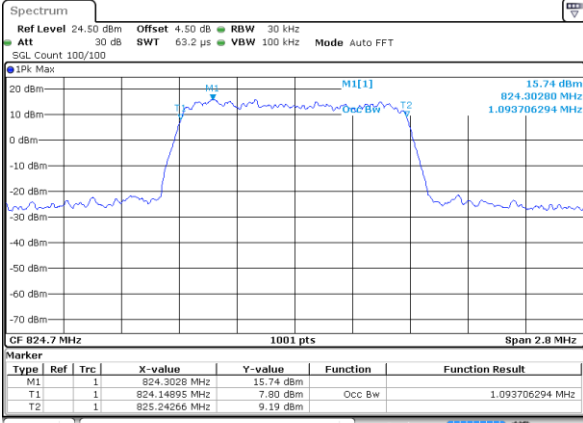


Date: 2 JUL 2018 10:42:55



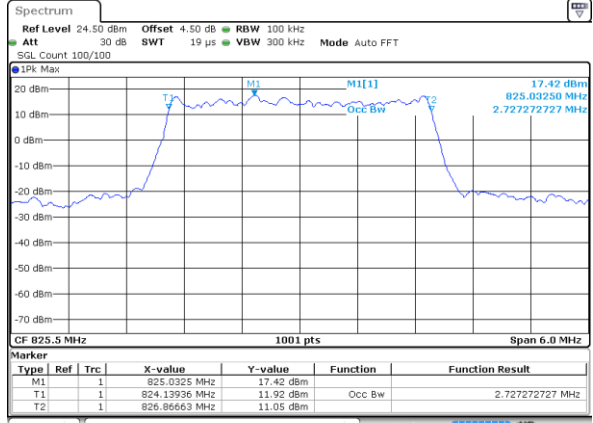
LTE Band 5

Lowest Channel / 1.4MHz / 64QAM



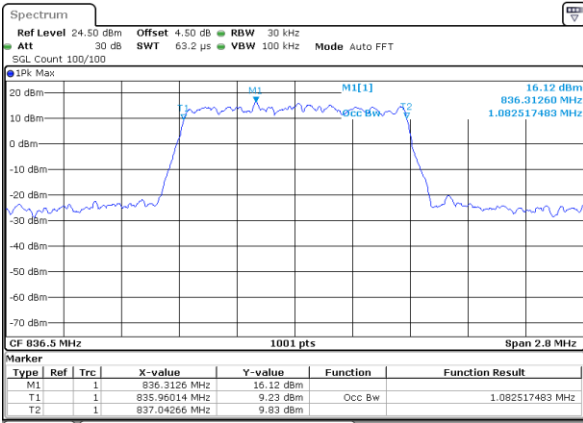
Date: 2 JUL 2018 10:58:45

Lowest Channel / 3MHz / 64QAM



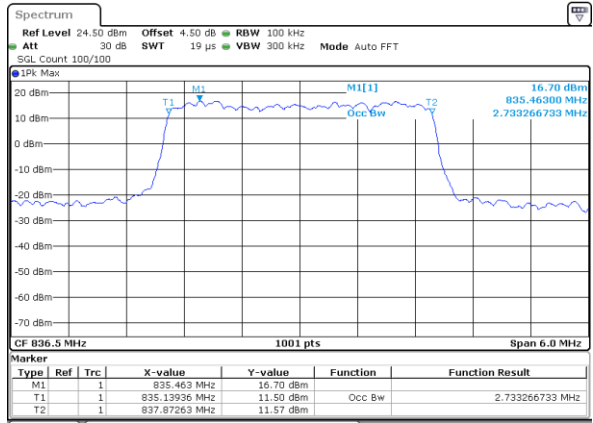
Date: 2 JUL 2018 11:09:09

Middle Channel / 1.4MHz / 64QAM



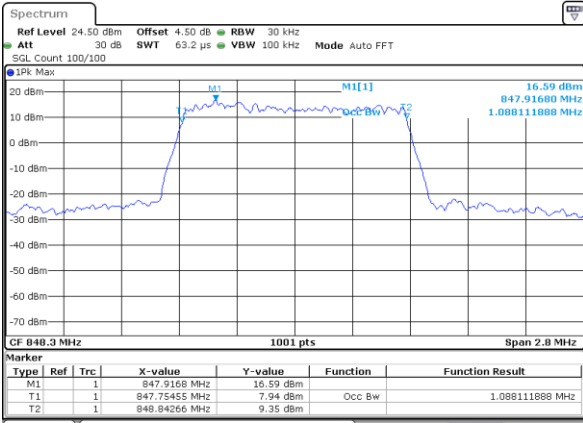
Date: 2 JUL 2018 11:03:16

Middle Channel / 3MHz / 64QAM



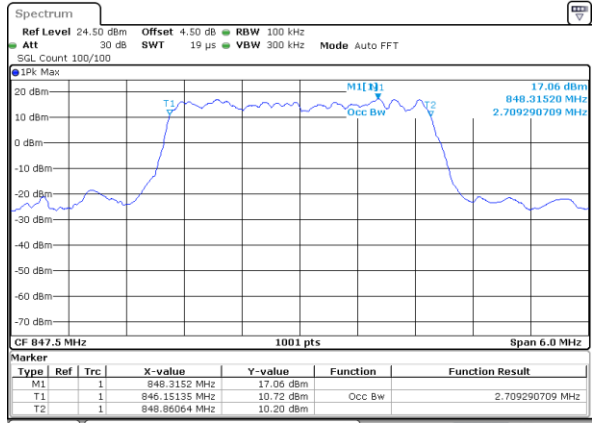
Date: 2 JUL 2018 11:13:42

Highest Channel / 1.4MHz / 64QAM



Date: 2 JUL 2018 11:04:35

Highest Channel / 3MHz / 64QAM

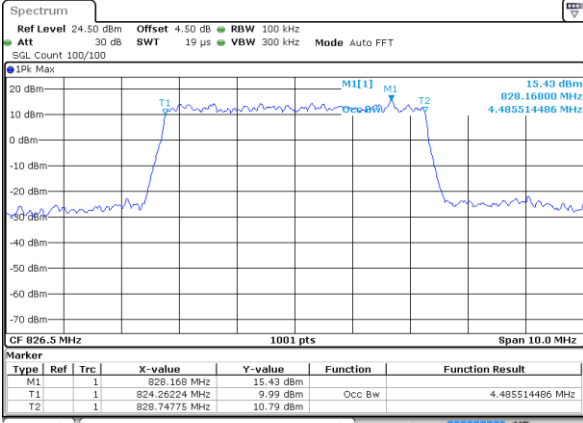


Date: 2 JUL 2018 11:14:58



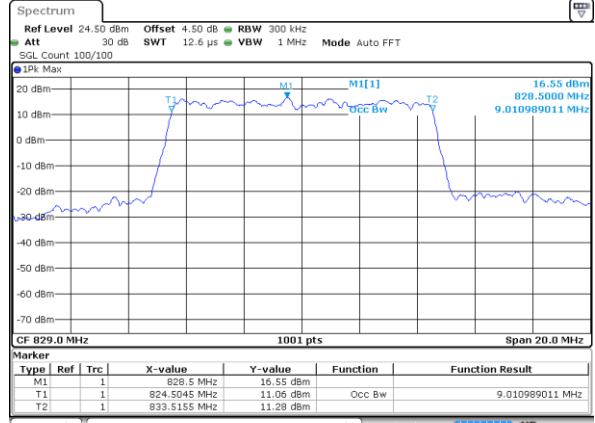
LTE Band 5

Lowest Channel / 5MHz / 64QAM



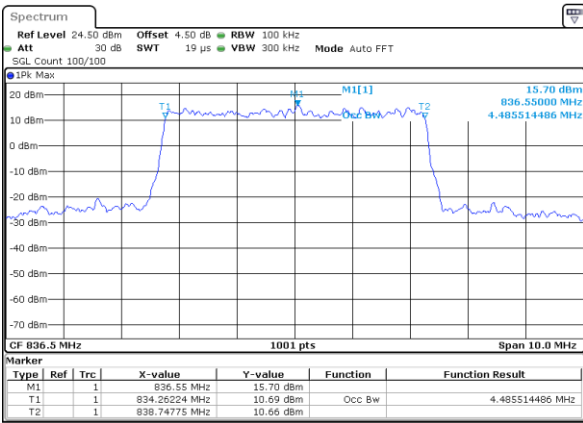
Date: 2 JUL 2018 11:19:31

Lowest Channel / 10MHz / 64QAM



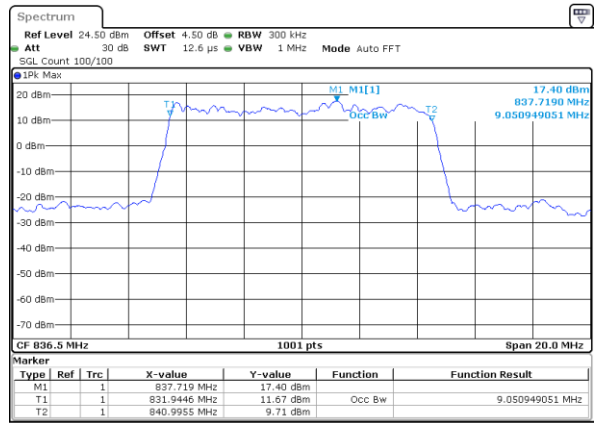
Date: 2 JUL 2018 11:29:54

Middle Channel / 5MHz / 64QAM



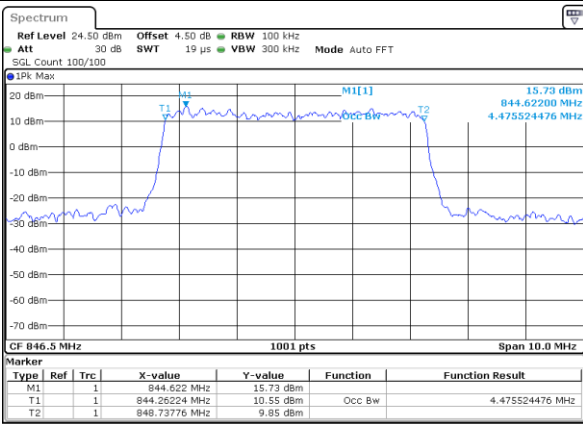
Date: 2 JUL 2018 11:24:04

Middle Channel / 10MHz / 64QAM



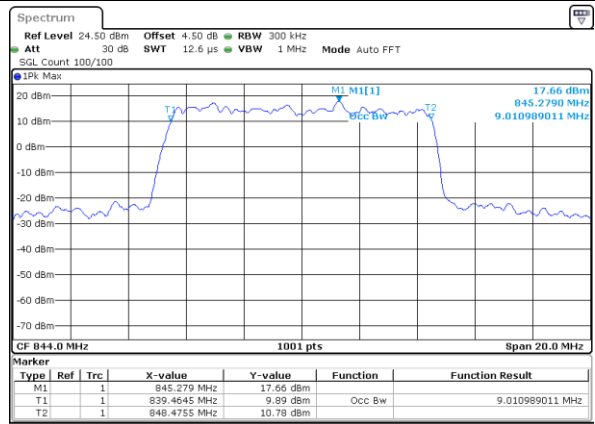
Date: 2 JUL 2018 11:34:27

Highest Channel / 5MHz / 64QAM



Date: 2 JUL 2018 11:25:21

Highest Channel / 10MHz / 64QAM

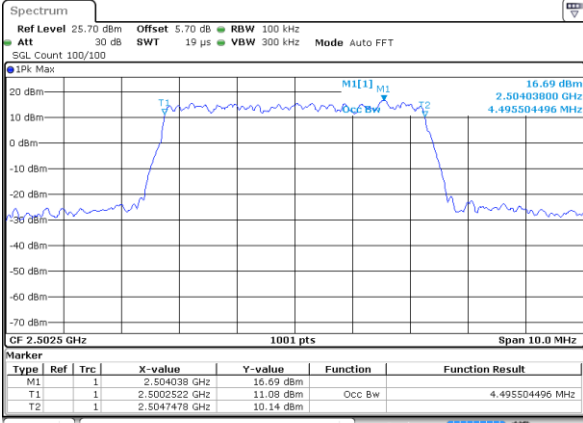


Date: 2 JUL 2018 11:35:46



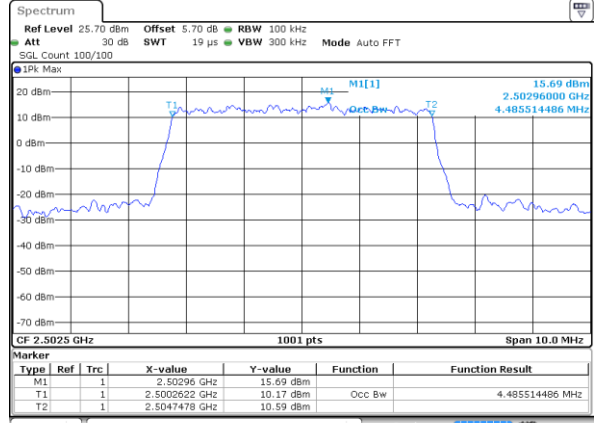
LTE Band 7

Lowest Channel / 5MHz / QPSK



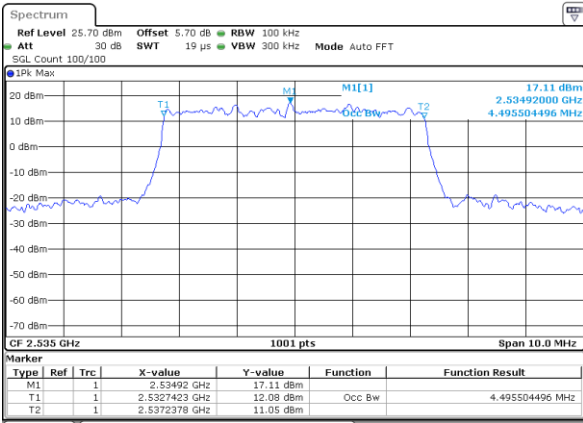
Date: 2 JUL 2018 15:22:24

Lowest Channel / 5MHz / 16QAM



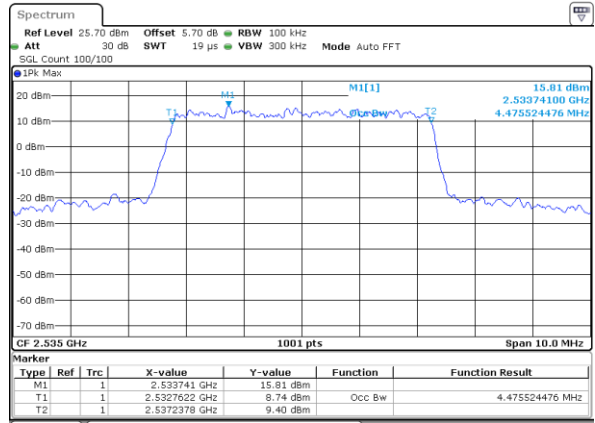
Date: 2 JUL 2018 15:22:45

Middle Channel / 5MHz / QPSK



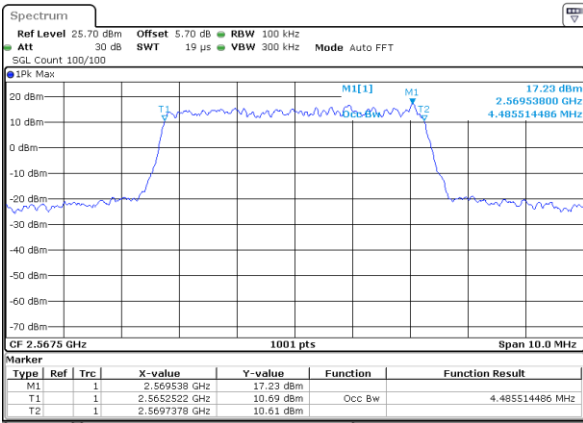
Date: 2 JUL 2018 15:31:43

Middle Channel / 5MHz / 16QAM



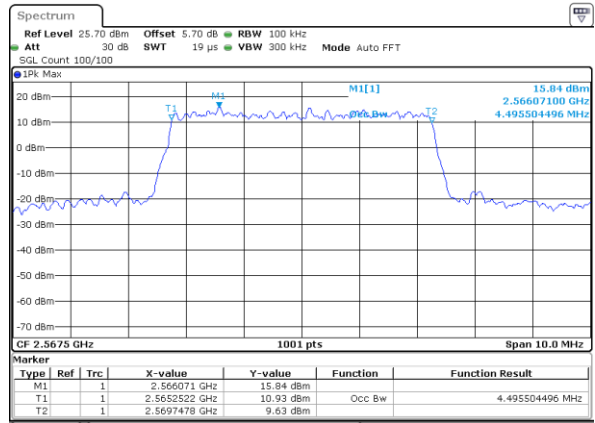
Date: 2 JUL 2018 15:31:22

Highest Channel / 5MHz / QPSK



Date: 2 JUL 2018 15:32:04

Highest Channel / 5MHz / 16QAM

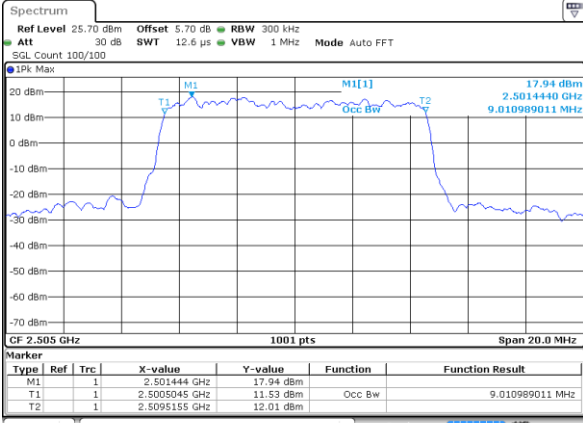


Date: 2 JUL 2018 15:32:25



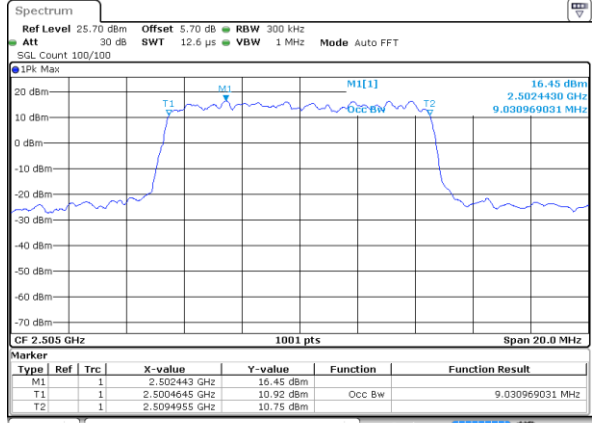
LTE Band 7

Lowest Channel / 10MHz / QPSK



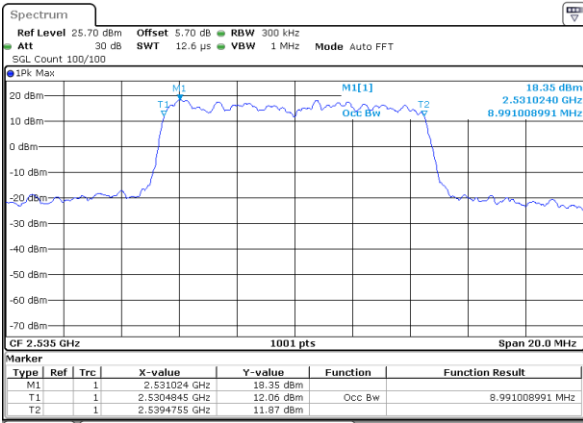
Date: 2 JUL 2018 15:39:10

Lowest Channel / 10MHz / 16QAM



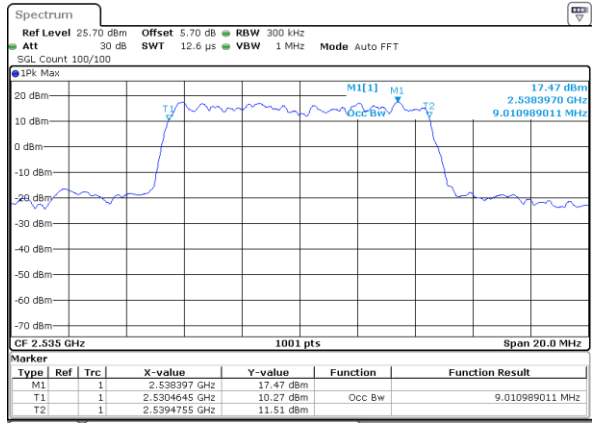
Date: 2 JUL 2018 15:39:32

Middle Channel / 10MHz / QPSK



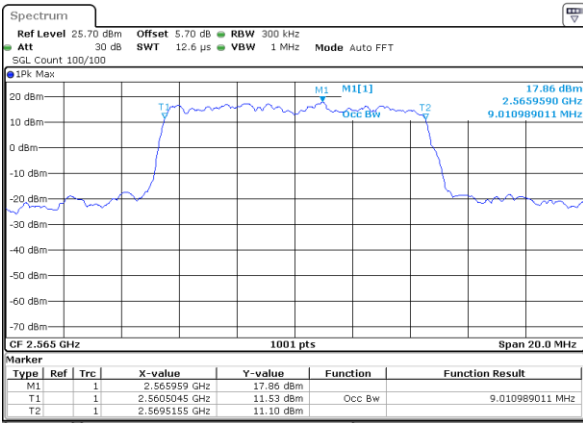
Date: 2 JUL 2018 15:48:30

Middle Channel / 10MHz / 16QAM



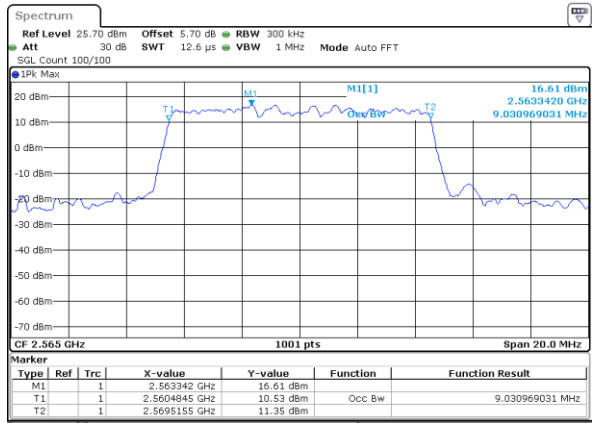
Date: 2 JUL 2018 15:48:08

Highest Channel / 10MHz / QPSK



Date: 2 JUL 2018 15:48:52

Highest Channel / 10MHz / 16QAM

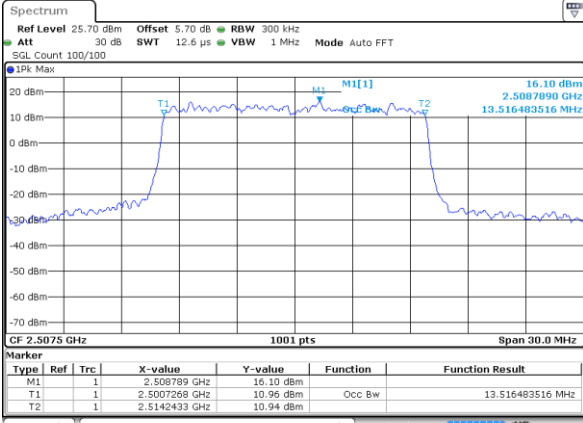


Date: 2 JUL 2018 15:49:13



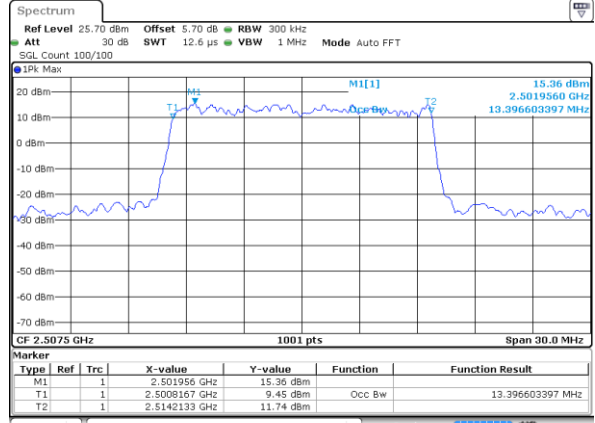
LTE Band 7

Lowest Channel / 15MHz / QPSK



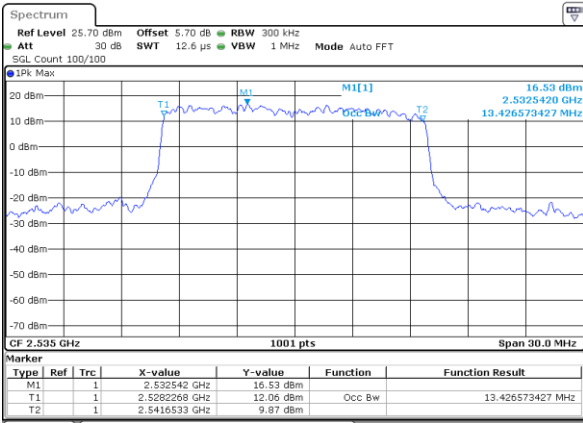
Date: 2 JUL 2018 15:55:59

Lowest Channel / 15MHz / 16QAM



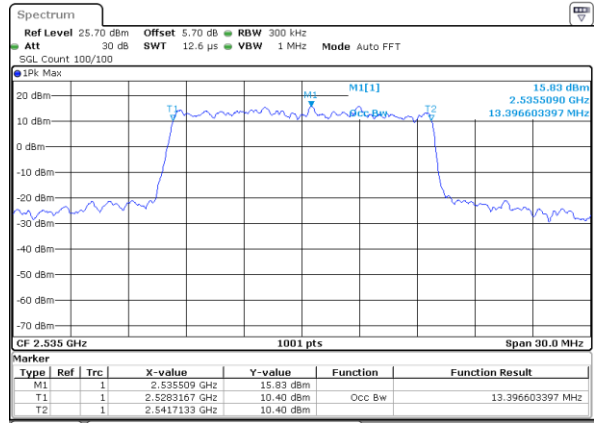
Date: 2 JUL 2018 15:56:20

Middle Channel / 15MHz / QPSK



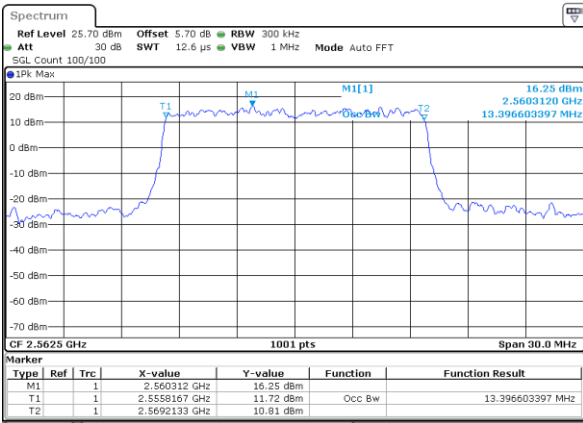
Date: 2 JUL 2018 16:05:18

Middle Channel / 15MHz / 16QAM



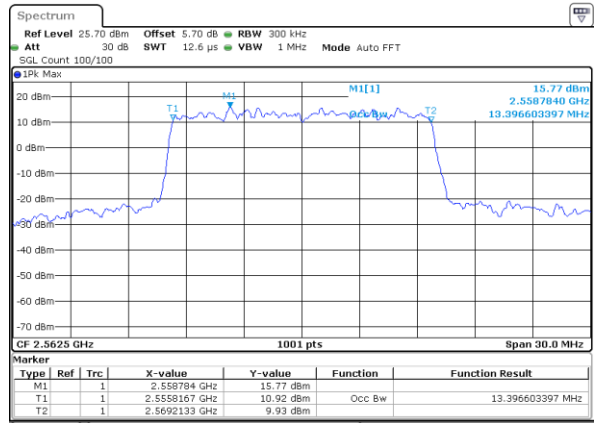
Date: 2 JUL 2018 16:04:57

Highest Channel / 15MHz / QPSK



Date: 2 JUL 2018 16:05:40

Highest Channel / 15MHz / 16QAM



Date: 2 JUL 2018 16:06:01