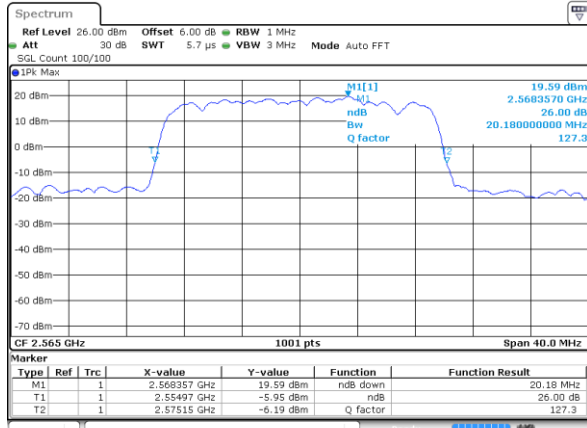




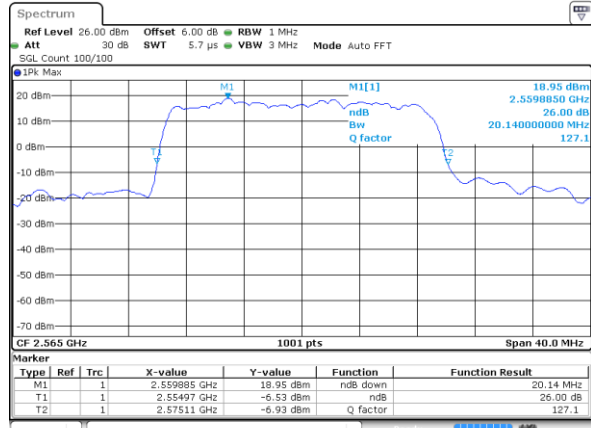
LTE Band 41

Lowest Channel / 20MHz / QPSK



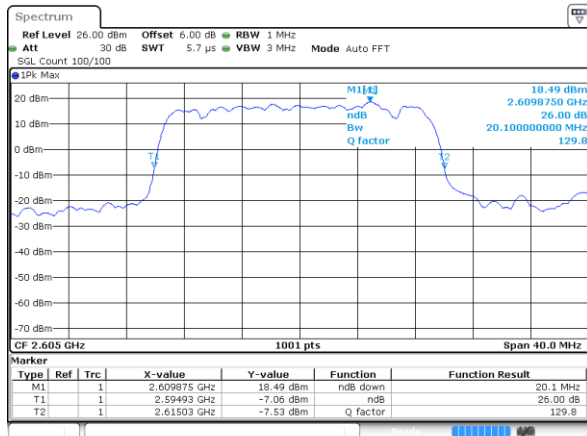
Date: 19 JUN 2019 14:28:50

Lowest Channel / 20MHz / 16QAM



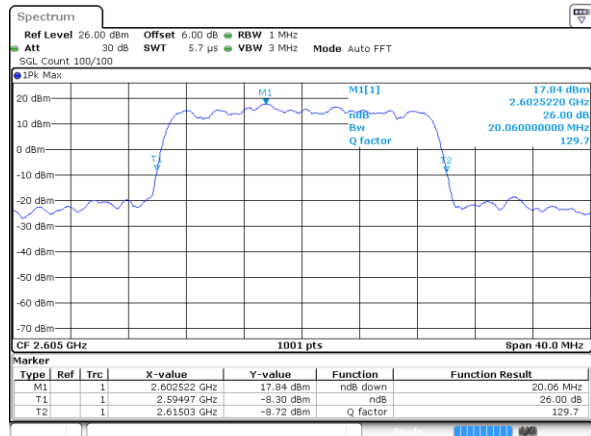
Date: 19 JUN 2019 14:29:00

Middle Channel / 20MHz / QPSK



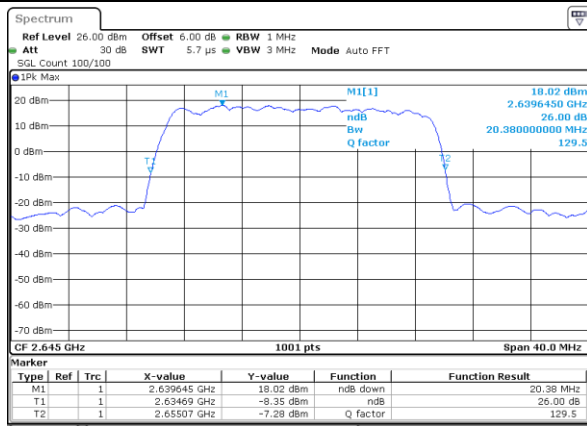
Date: 19 JUN 2019 14:29:30

Middle Channel / 20MHz / 16QAM



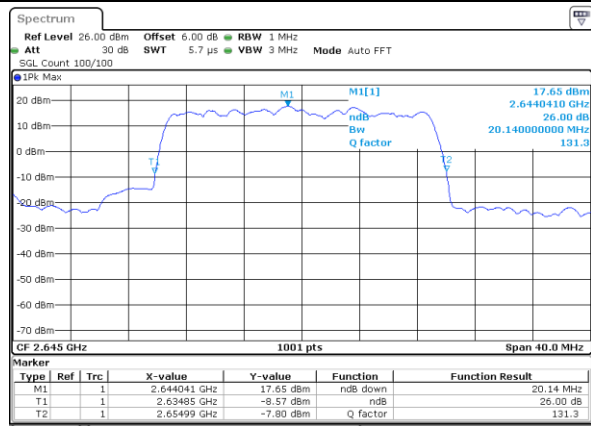
Date: 19 JUN 2019 14:29:40

Highest Channel / 20MHz / QPSK



Date: 19 JUN 2019 14:30:10

Highest Channel / 20MHz / 16QAM

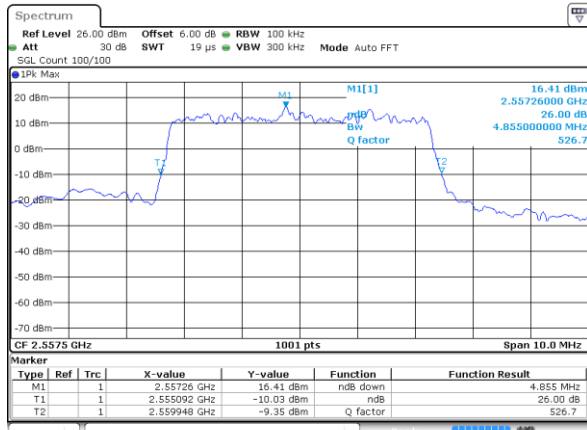


Date: 19 JUN 2019 14:30:20



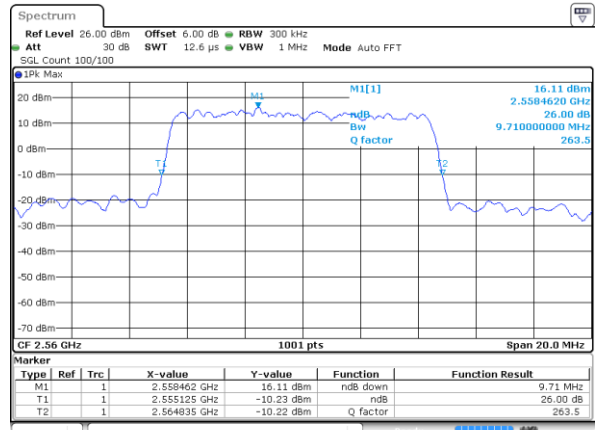
LTE Band 41

Lowest Channel / 5MHz / QPSK



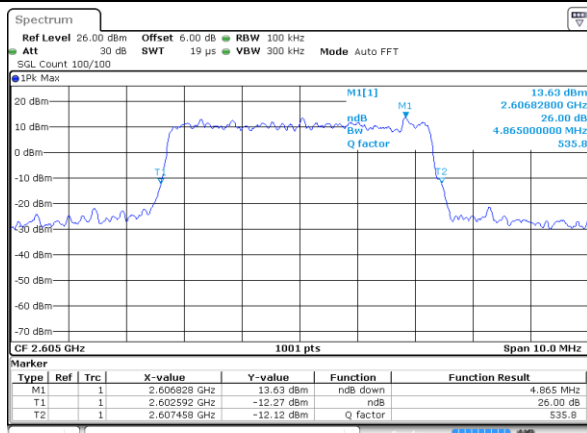
Date: 19 JUN 2019 14:36:48

Lowest Channel / 10MHz / 16QAM



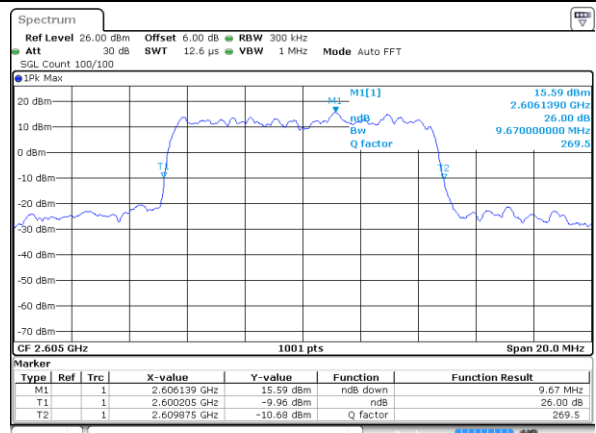
Date: 19 JUN 2019 14:37:48

Middle Channel / 5MHz / QPSK



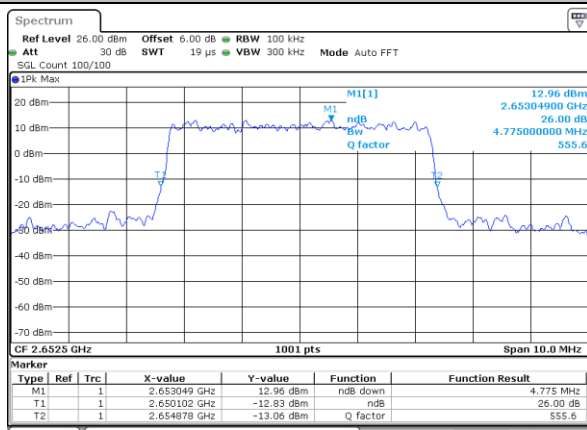
Date: 19 JUN 2019 14:37:08

Middle Channel / 10MHz / 16QAM



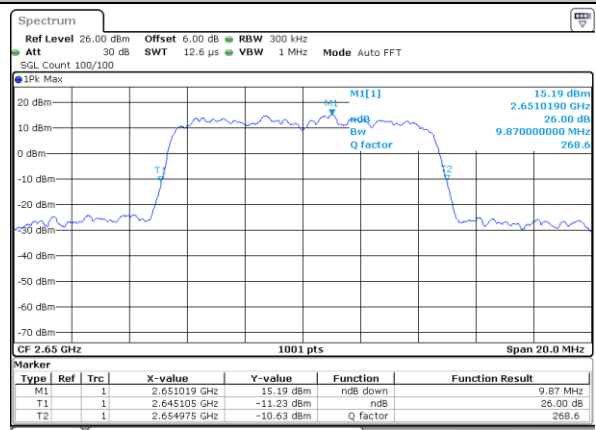
Date: 19 JUN 2019 14:38:08

Highest Channel / 5MHz / QPSK



Date: 19 JUN 2019 14:37:28

Highest Channel / 10MHz / 16QAM

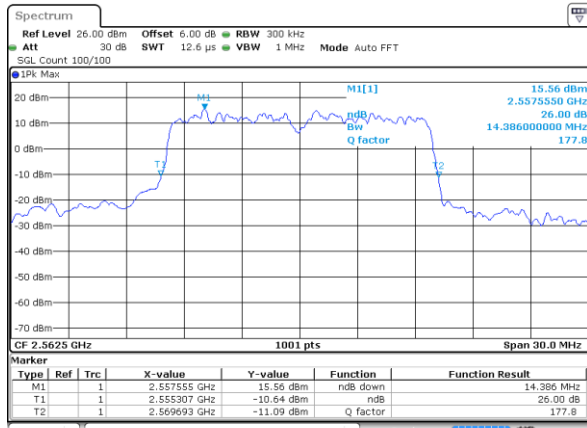


Date: 19 JUN 2019 14:38:28



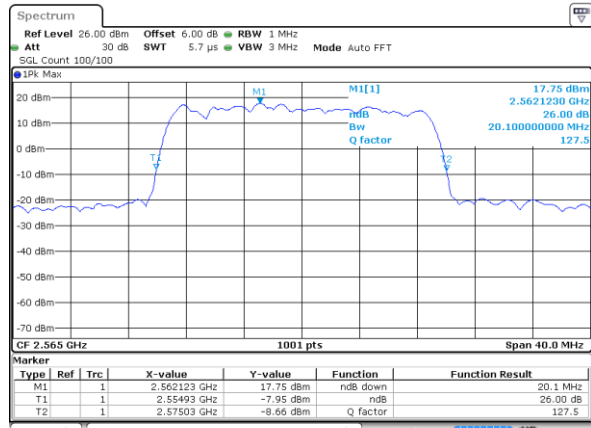
LTE Band 41

Lowest Channel / 15MHz / QPSK



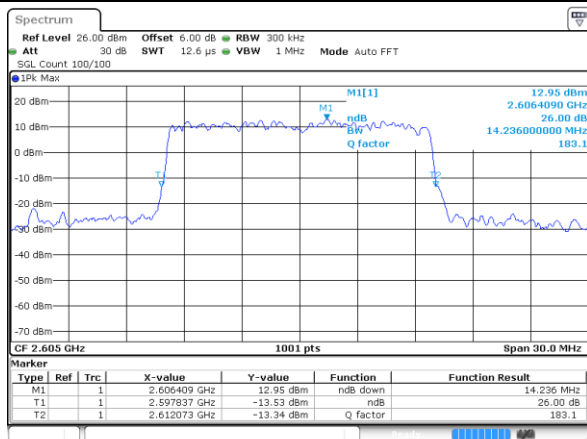
Date: 19 JUN 2019 14:38:48

Lowest Channel / 20MHz / 16QAM



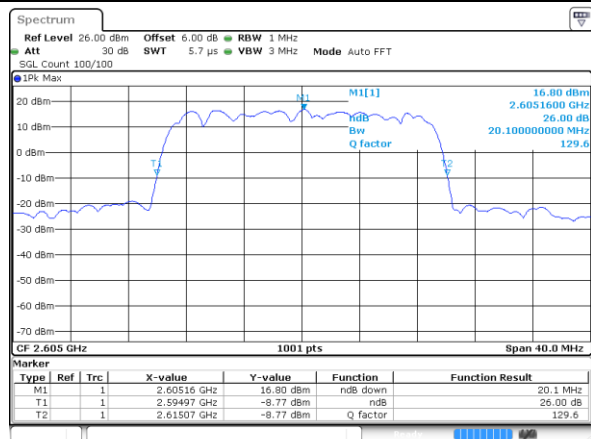
Date: 19 JUN 2019 14:39:48

Middle Channel / 15MHz / QPSK



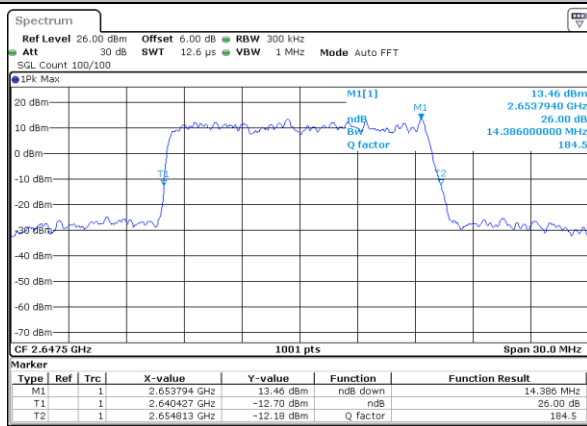
Date: 19 JUN 2019 14:39:08

Middle Channel / 20MHz / 16QAM



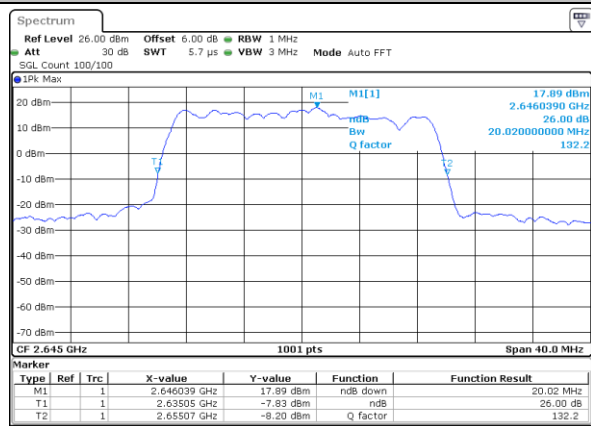
Date: 19 JUN 2019 14:40:09

Highest Channel / 15MHz / QPSK



Date: 19 JUN 2019 14:39:28

Highest Channel / 20MHz / 16QAM



Date: 19 JUN 2019 14:40:29

**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	1.10	2.70	2.70	4.49	4.51	8.99	8.95	13.37	13.46	18.14	18.42
Middle CH	1.09	1.10	2.72	2.73	4.49	4.50	8.95	8.99	13.43	13.49	18.14	18.34
Highest CH	1.09	1.09	2.70	2.73	4.48	4.50	8.95	9.01	13.46	13.43	18.34	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	1.10		2.73		4.53		9.01		13.43		18.22	
Middle CH	1.09		2.72		4.51		9.03		13.40		18.30	
Highest CH	1.10		2.72		4.53		9.01		13.40		18.22	

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	1.10	1.09	2.70	2.72	4.51	4.50	9.01	8.99	13.46	13.37	18.30	18.34
Middle CH	1.09	1.10	2.72	2.72	4.48	4.48	9.01	9.01	13.37	13.33	18.22	18.18
Highest CH	1.09	1.09	2.72	2.71	4.49	4.50	9.03	9.07	13.34	13.46	18.30	18.18
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.												
Lowest CH	1.09		2.73		4.51		9.05		13.46		18.30	
Middle CH	1.10		2.75		4.51		8.97		13.33		18.38	
Highest CH	1.10		2.71		4.47		8.99		13.40		18.18	

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	1.10	2.75	2.72	4.48	4.50	9.03	8.97	1.09	2.73	4.46	9.01
Middle CH	1.09	1.10	2.72	2.71	4.48	4.51	9.05	9.03	1.10	2.71	4.52	9.01
Highest CH	1.09	1.10	2.75	2.72	4.49	4.50	9.01	8.95	1.09	2.70	4.47	9.07



Mode	LTE Band 7 : 99%OBW(MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.56	4.55	9.05	9.05	13.43	13.46	18.34	18.62	4.48	9.09	13.40	18.54
Middle CH	4.46	4.49	9.05	9.03	13.43	13.49	18.18	18.14	4.49	9.07	13.49	18.34
Highest CH	4.49	4.49	8.97	8.99	13.49	13.37	18.42	18.42	4.52	8.99	13.43	18.18

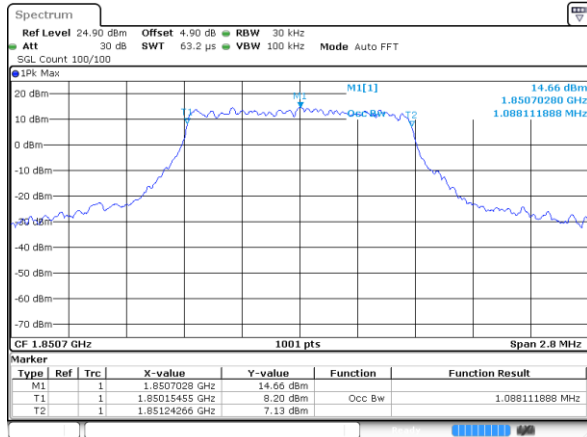
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		1.4MHz	3MHz	5MHz	10MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	1.09	1.10	2.72	2.73	4.53	4.48	9.01	8.99	1.09	2.73	4.50	9.15
Middle CH	1.09	1.09	2.72	2.71	4.51	4.52	9.01	9.01	1.09	2.73	4.50	8.95
Highest CH	1.09	1.10	2.70	2.72	4.47	4.48	9.01	8.91	1.09	2.71	4.50	8.97

Mode	LTE Band 41 : 99%OBW(MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.52	4.50	8.93	8.95	13.46	13.4	18.18	18.30	4.48	9.01	13.37	18.46
Middle CH	4.50	4.51	9.09	8.97	13.40	13.37	18.30	18.26	4.49	8.97	13.37	18.22
Highest CH	4.45	4.48	9.03	9.01	13.46	13.49	18.30	18.18	4.50	8.99	13.40	18.18



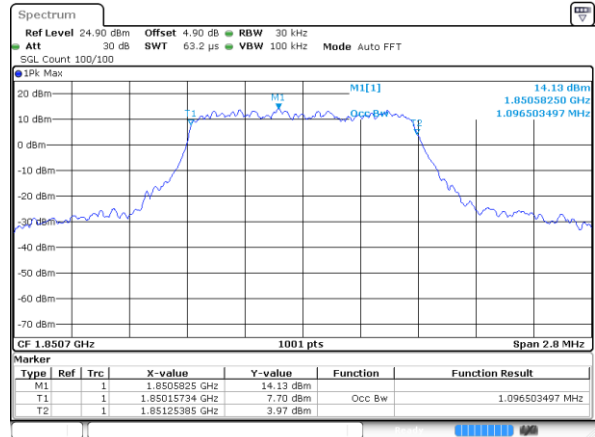
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



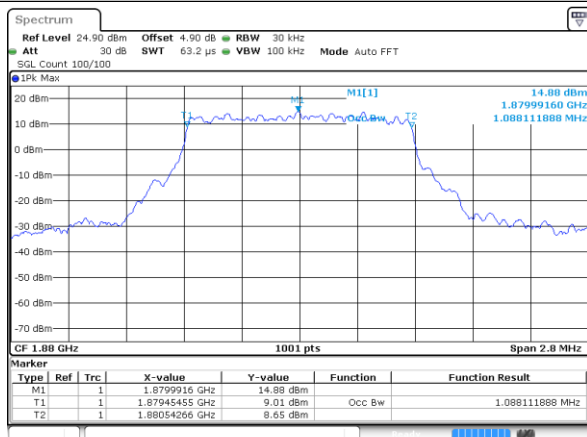
Date: 17 JUN 2019 22:09:43

Lowest Channel / 1.4MHz / 16QAM



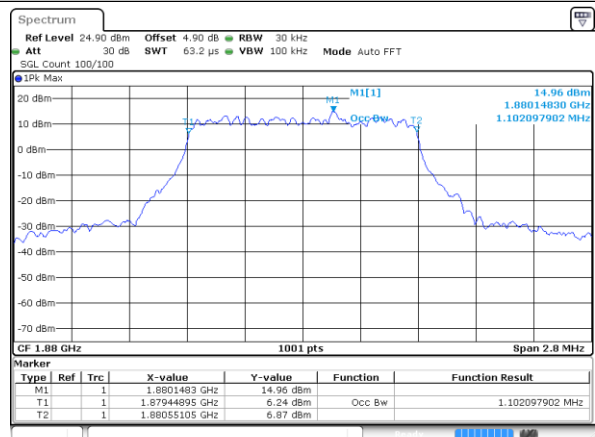
Date: 17 JUN 2019 22:09:53

Middle Channel / 1.4MHz / QPSK



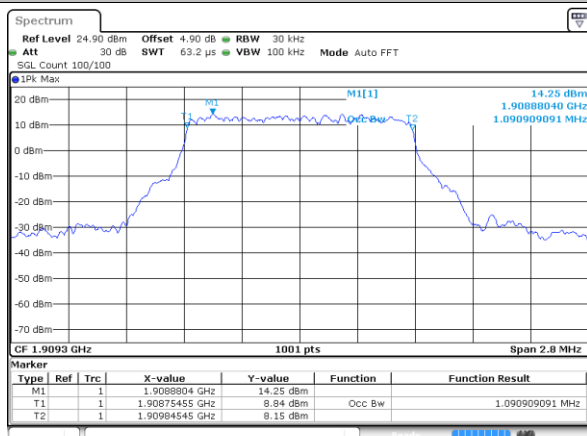
Date: 17 JUN 2019 22:16:43

Middle Channel / 1.4MHz / 16QAM



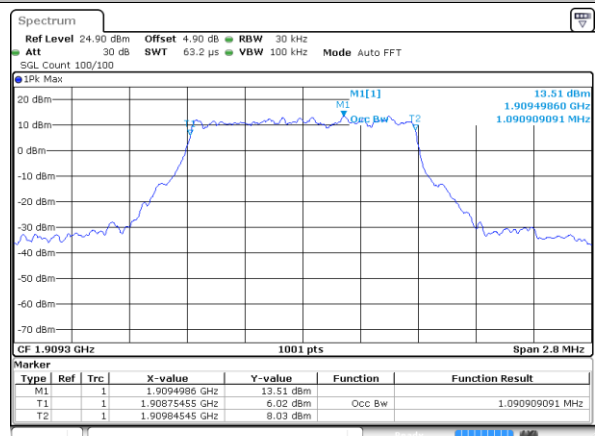
Date: 17 JUN 2019 22:16:53

Highest Channel / 1.4MHz / QPSK



Date: 17 JUN 2019 22:19:13

Highest Channel / 1.4MHz / 16QAM

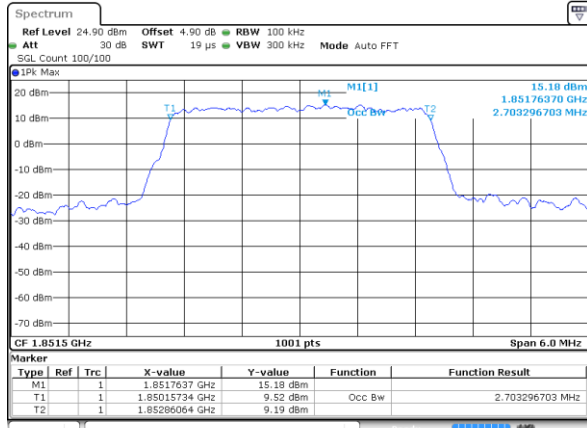


Date: 17 JUN 2019 22:19:23



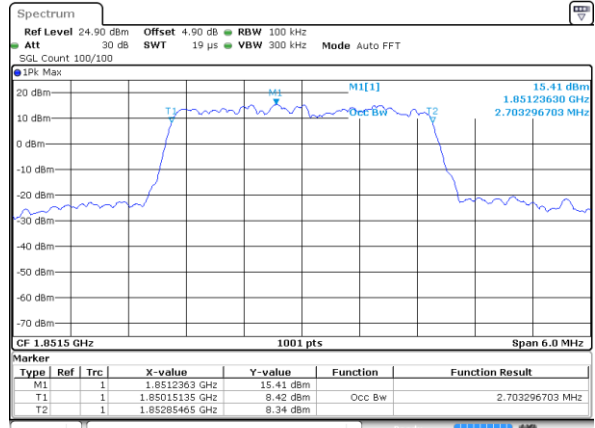
LTE Band 2

Lowest Channel / 3MHz / QPSK



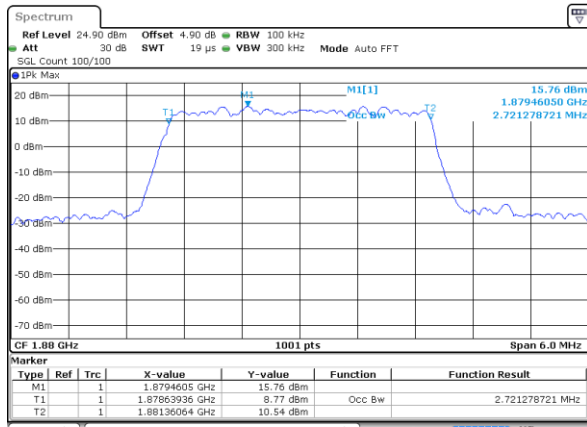
Date: 17 JUN 2019 22:28:13

Lowest Channel / 3MHz / 16QAM



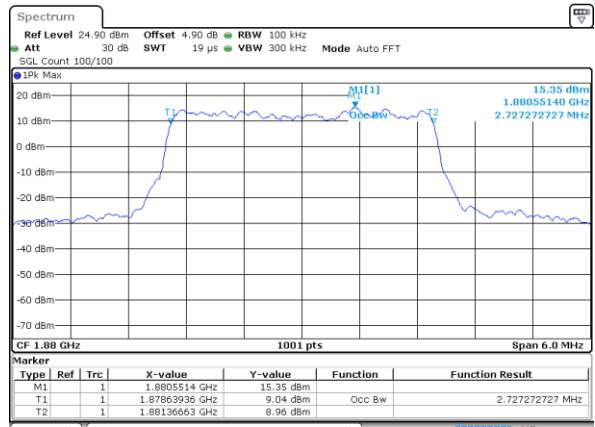
Date: 17 JUN 2019 22:26:23

Middle Channel / 3MHz / QPSK



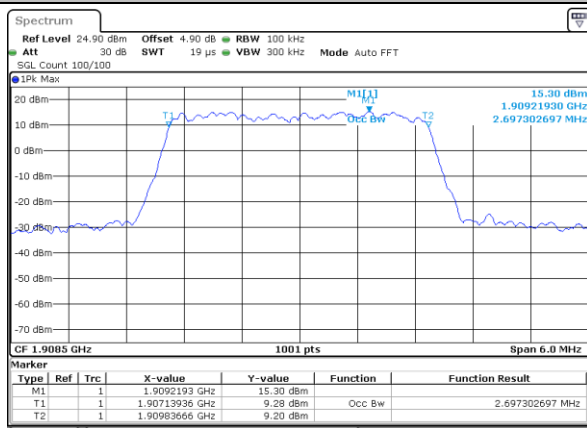
Date: 17 JUN 2019 22:33:12

Middle Channel / 3MHz / 16QAM



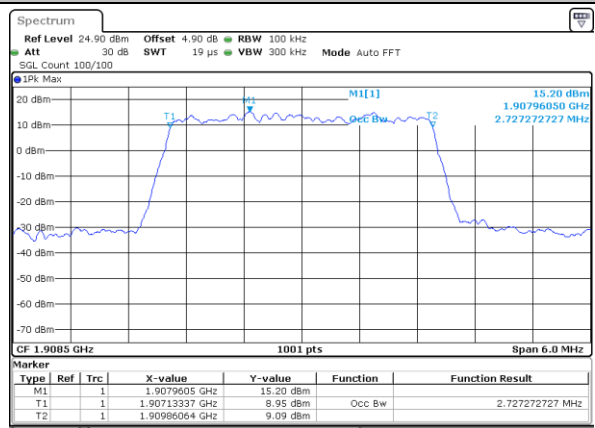
Date: 17 JUN 2019 22:33:22

Highest Channel / 3MHz / QPSK

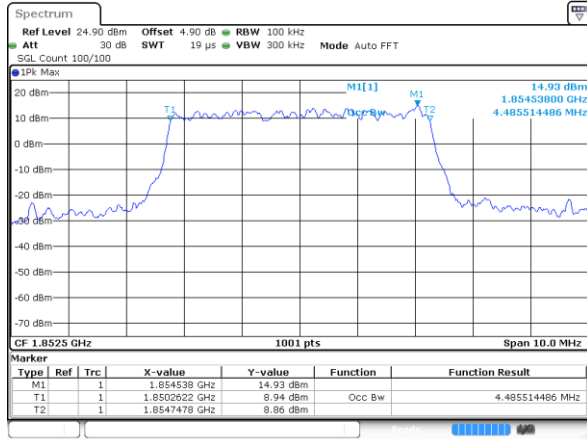
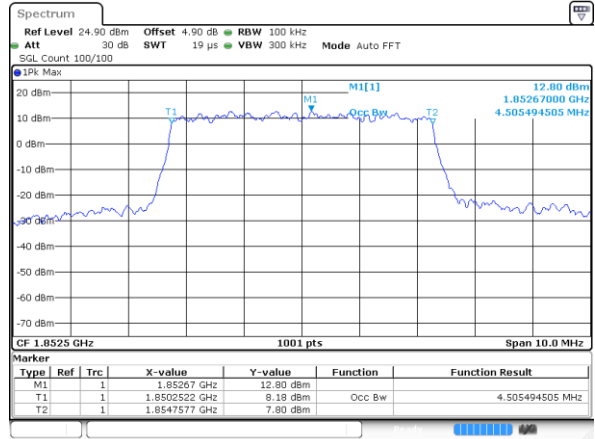
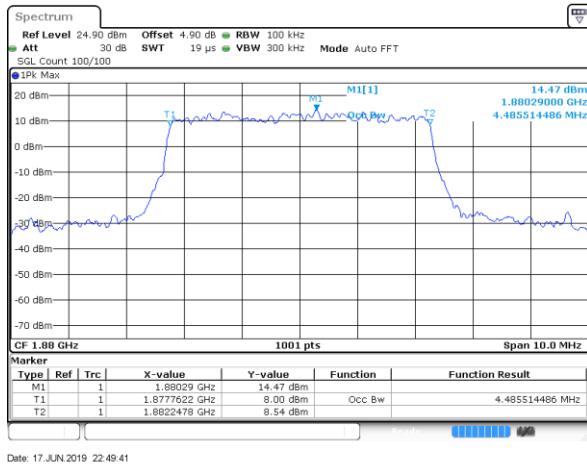
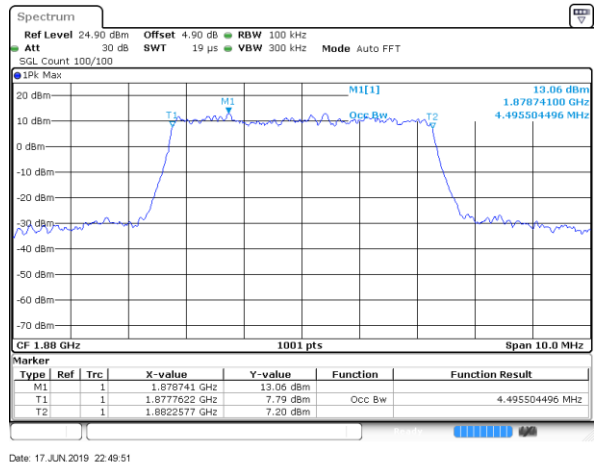
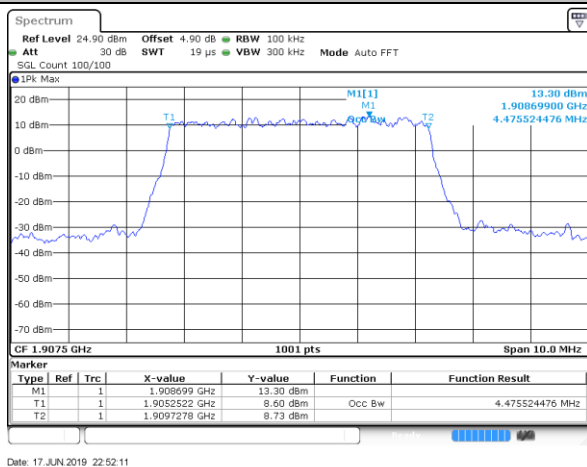
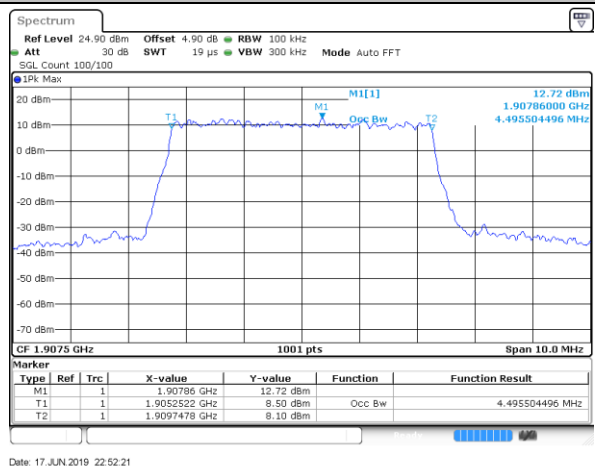


Date: 17 JUN 2019 22:35:42

Highest Channel / 3MHz / 16QAM



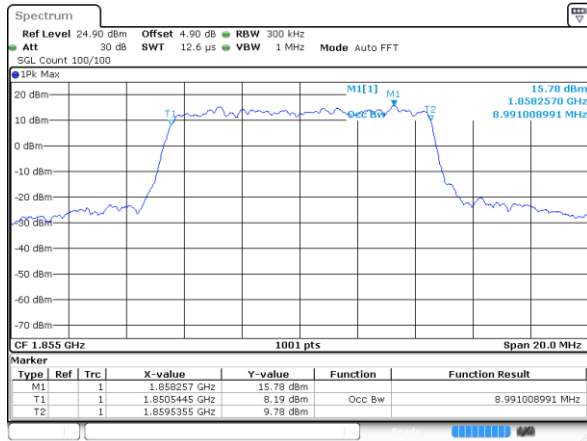
Date: 17 JUN 2019 22:35:52

**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**



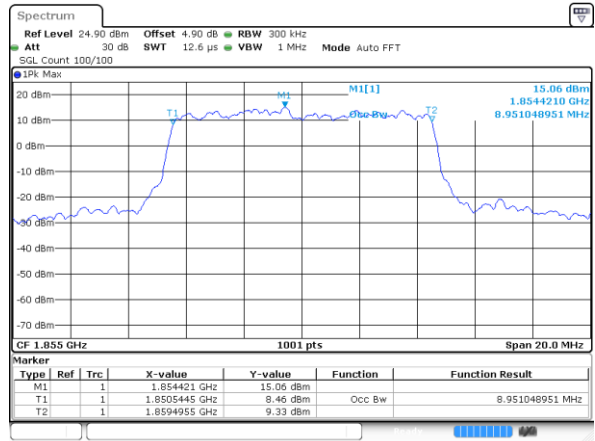
LTE Band 2

Lowest Channel / 10MHz / QPSK



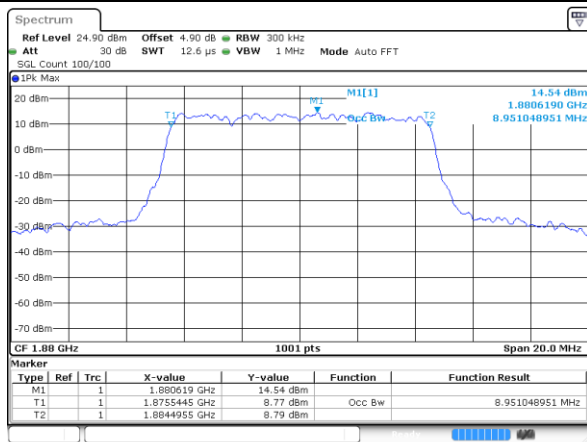
Date: 17 JUN 2019 22:58:11

Lowest Channel / 10MHz / 16QAM



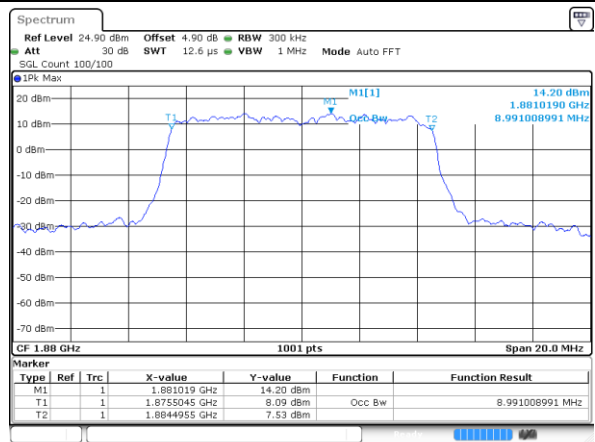
Date: 17 JUN 2019 22:59:21

Middle Channel / 10MHz / QPSK



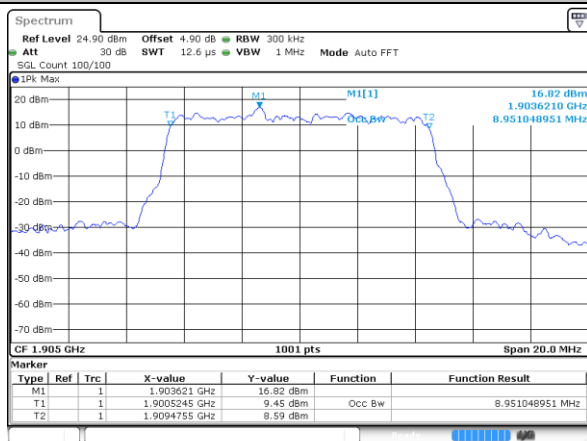
Date: 17 JUN 2019 23:08:11

Middle Channel / 10MHz / 16QAM



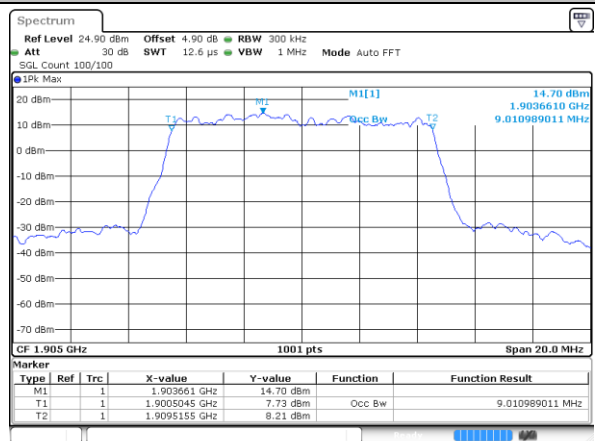
Date: 17 JUN 2019 23:06:21

Highest Channel / 10MHz / QPSK



Date: 17 JUN 2019 23:08:40

Highest Channel / 10MHz / 16QAM

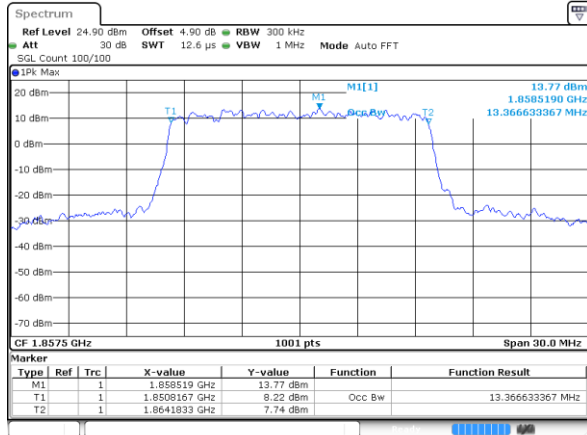


Date: 17 JUN 2019 23:08:50



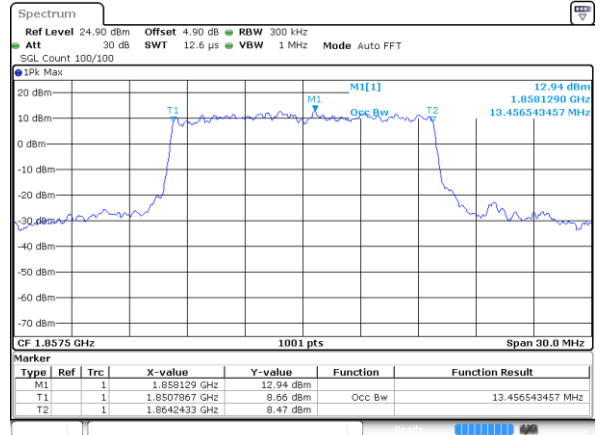
LTE Band 2

Lowest Channel / 15MHz / QPSK



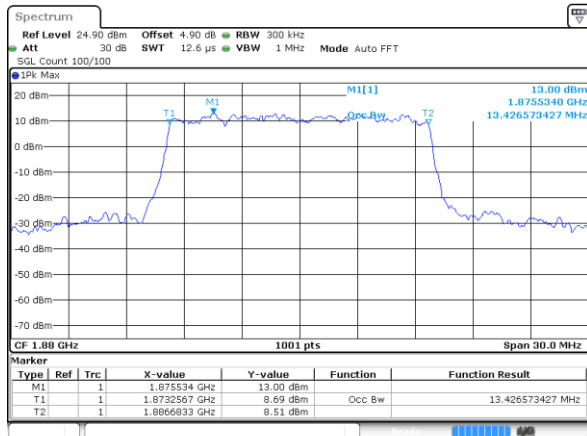
Date: 17 JUN 2019 23:15:40

Lowest Channel / 15MHz / 16QAM



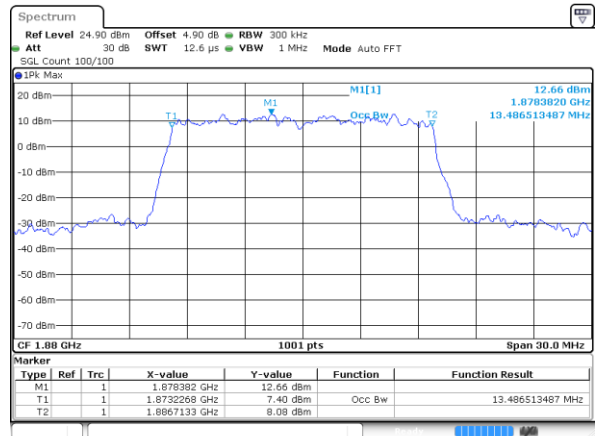
Date: 17 JUN 2019 23:15:50

Middle Channel / 15MHz / QPSK



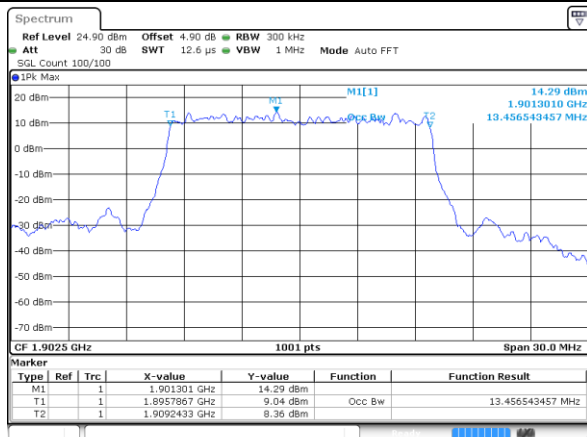
Date: 17 JUN 2019 23:22:40

Middle Channel / 15MHz / 16QAM



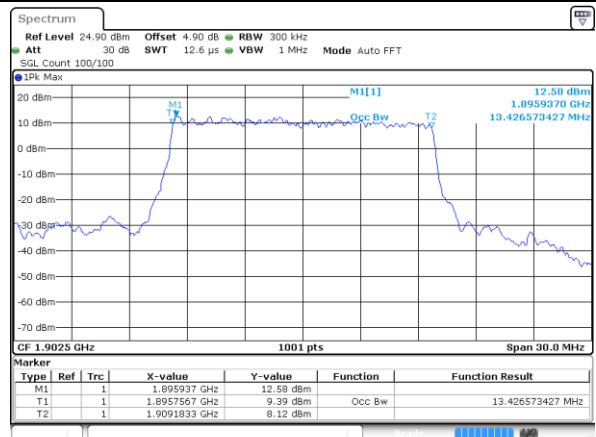
Date: 17 JUN 2019 23:22:50

Highest Channel / 15MHz / QPSK



Date: 17 JUN 2019 23:25:09

Highest Channel / 15MHz / 16QAM

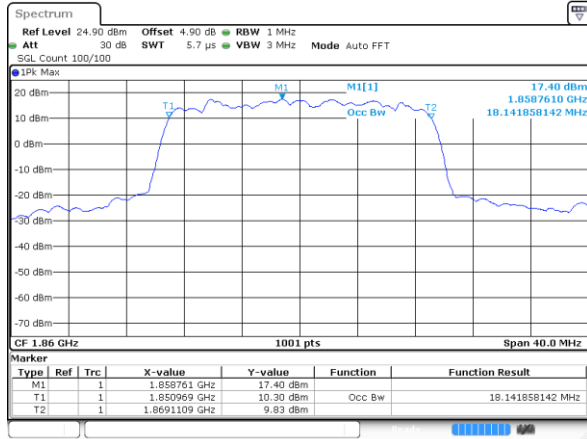


Date: 17 JUN 2019 23:25:19



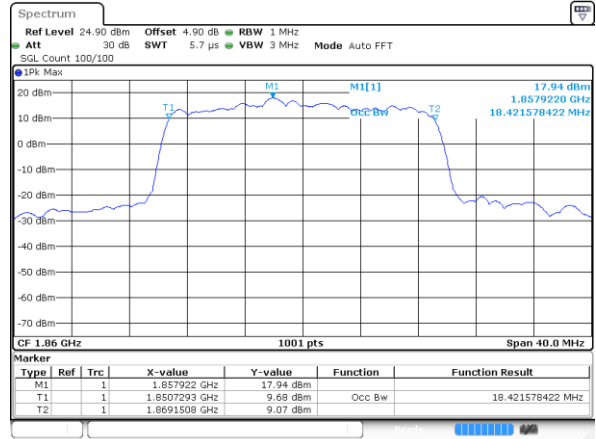
LTE Band 2

Lowest Channel / 20MHz / QPSK



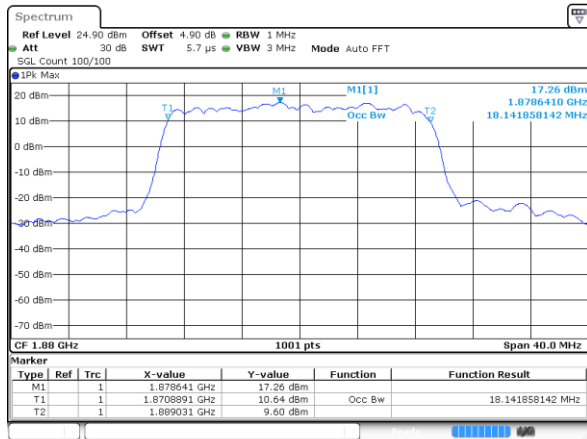
Date: 17 JUN 2019 23:32:09

Lowest Channel / 20MHz / 16QAM



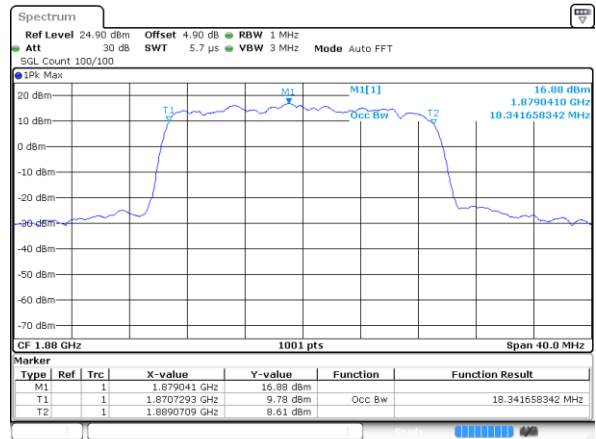
Date: 17 JUN 2019 23:32:19

Middle Channel / 20MHz / QPSK



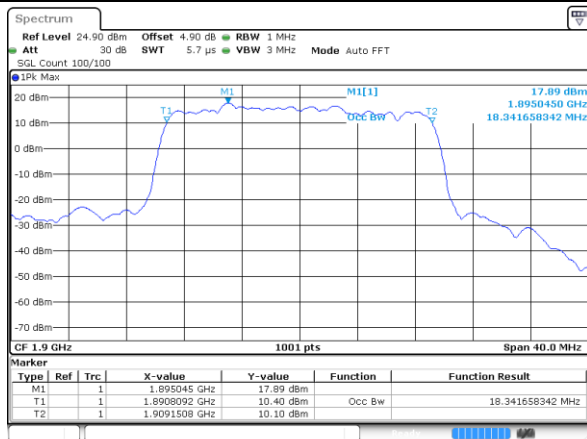
Date: 17 JUN 2019 23:38:09

Middle Channel / 20MHz / 16QAM



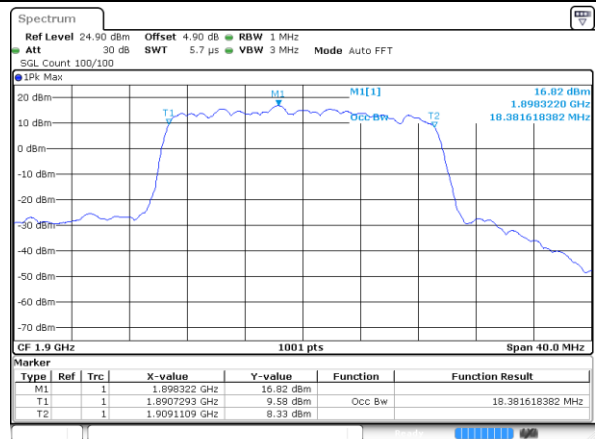
Date: 17 JUN 2019 23:39:19

Highest Channel / 20MHz / QPSK

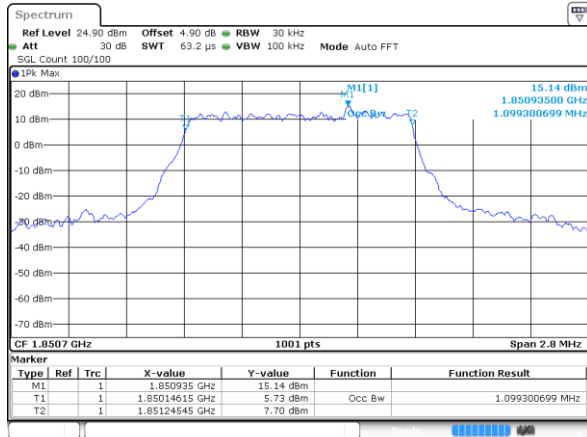
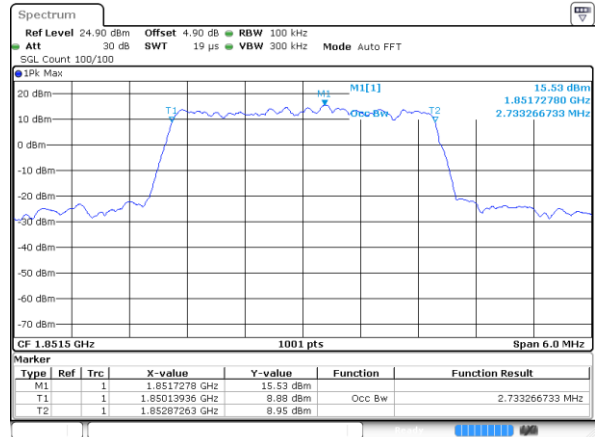
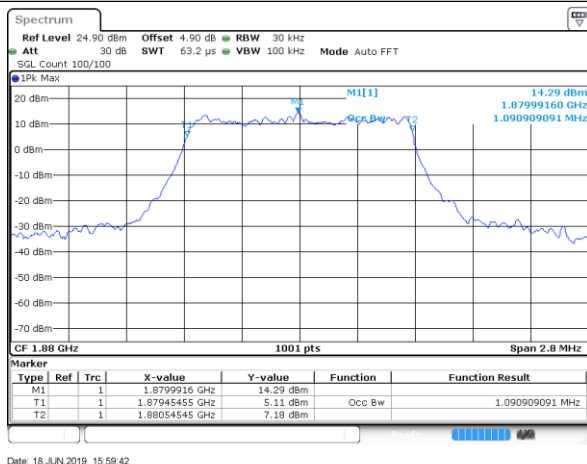
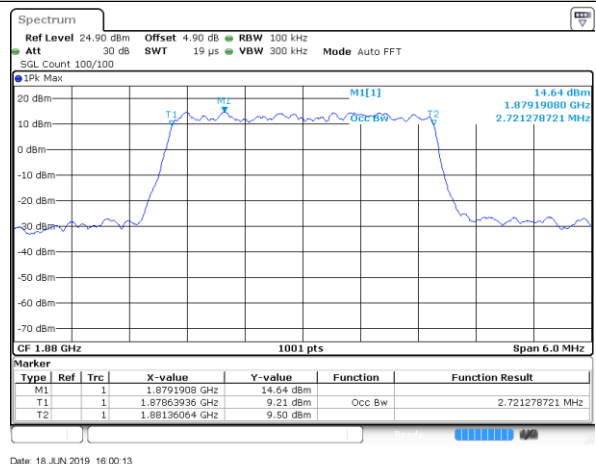
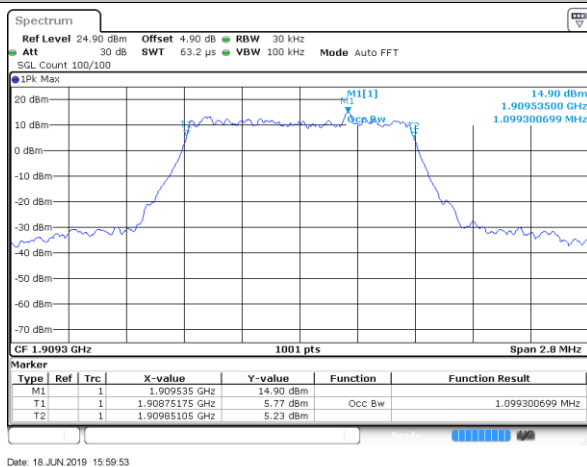
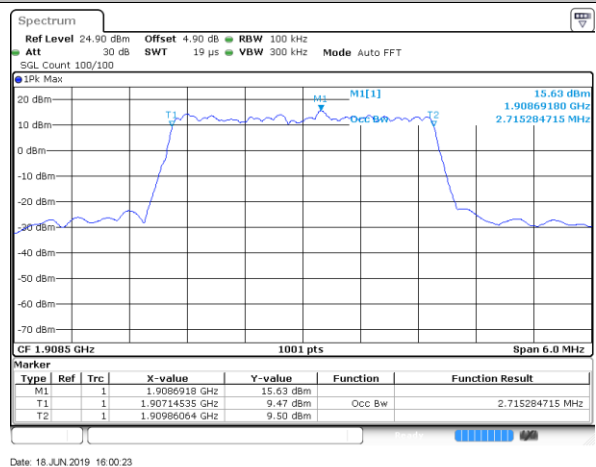


Date: 17 JUN 2019 23:41:39

Highest Channel / 20MHz / 16QAM



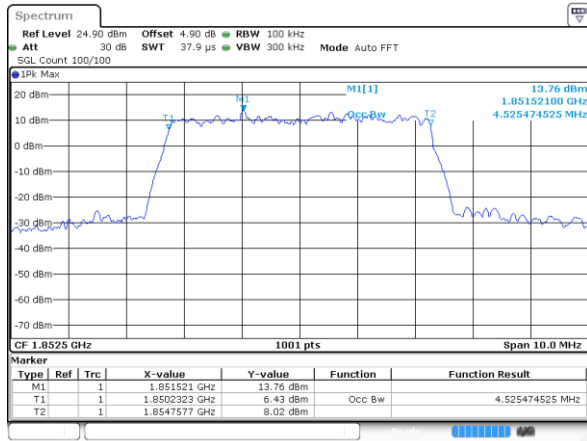
Date: 17 JUN 2019 23:41:49

**LTE Band 2****Lowest Channel / 1.4MHz / 64QAM****Lowest Channel / 3MHz / 64QAM****Middle Channel / 1.4MHz / 64QAM****Middle Channel / 3MHz / 64QAM****Highest Channel / 1.4MHz / 64QAM****Highest Channel / 3MHz / 64QAM**

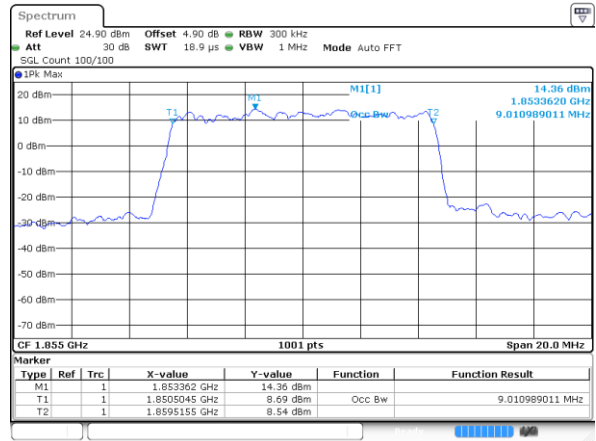


LTE Band 2

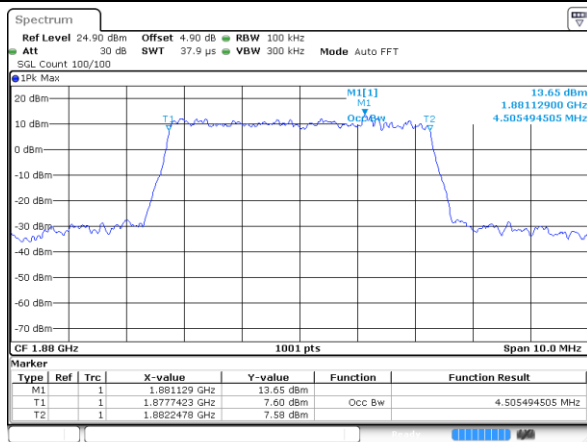
Lowest Channel / 5MHz / 64QAM



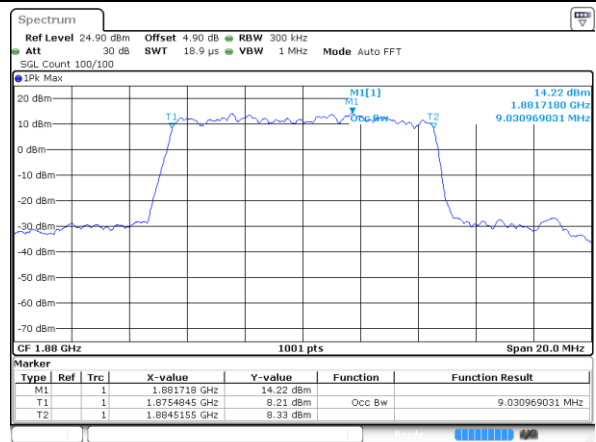
Lowest Channel / 10MHz / 64QAM



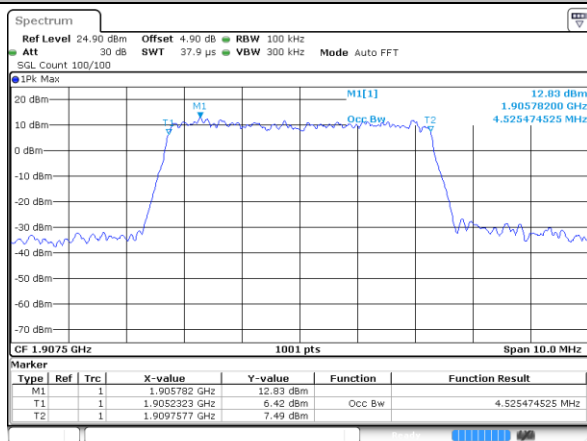
Middle Channel / 5MHz / 64QAM



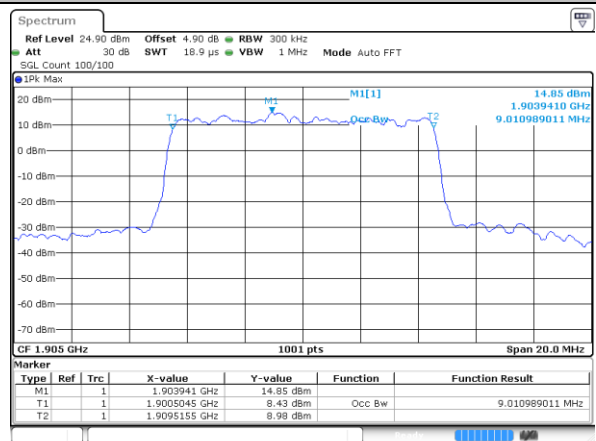
Middle Channel / 10MHz / 64QAM

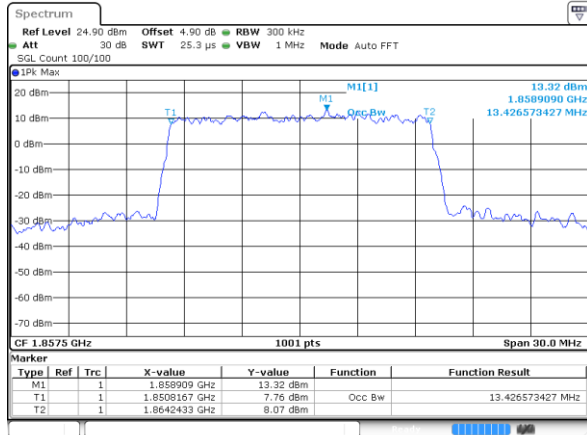
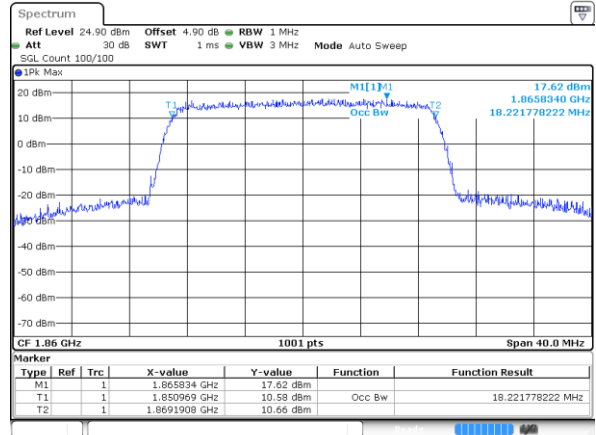
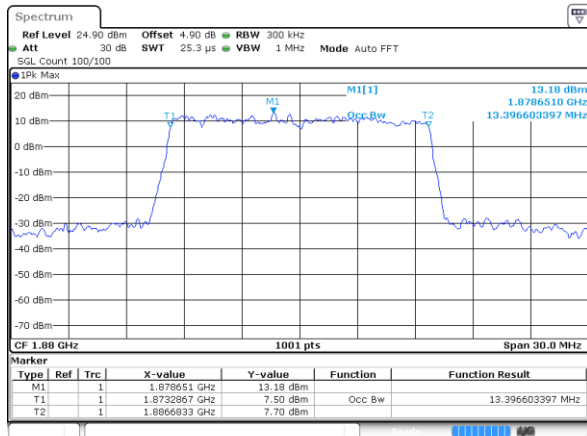
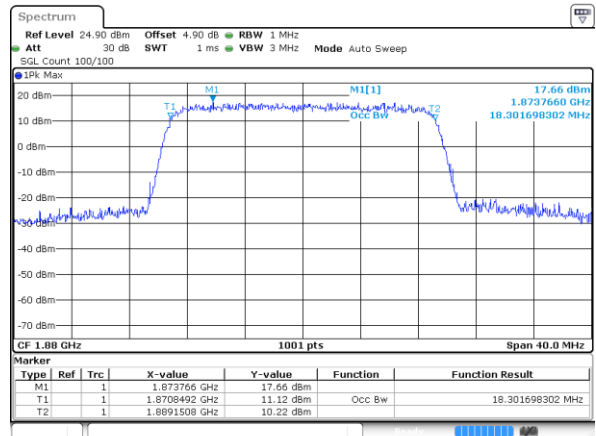
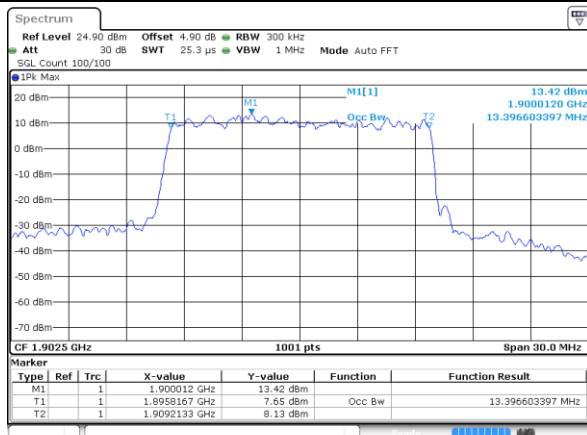
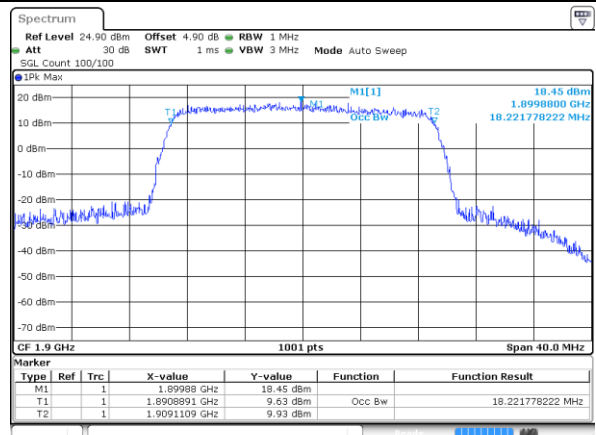


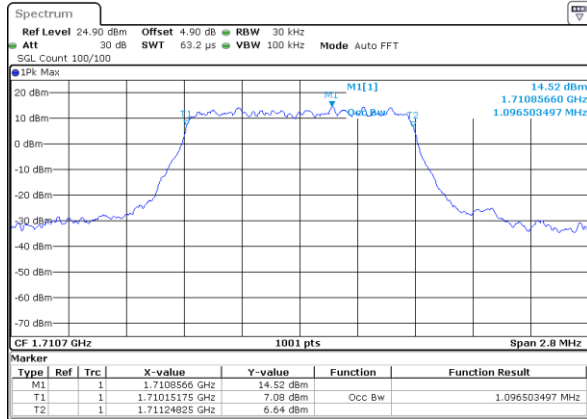
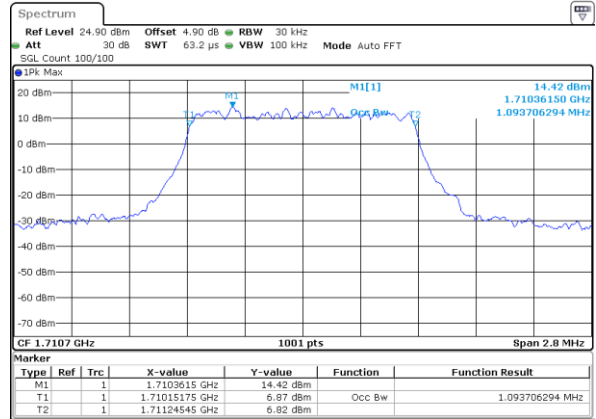
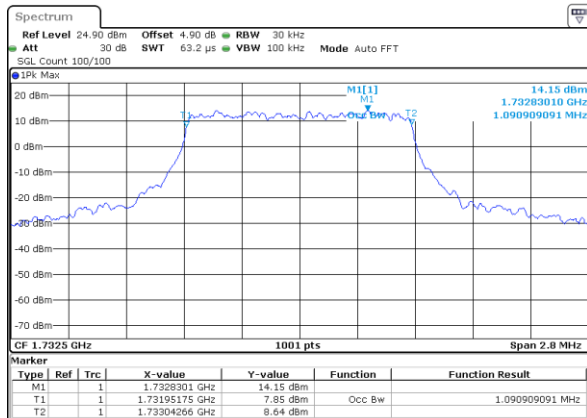
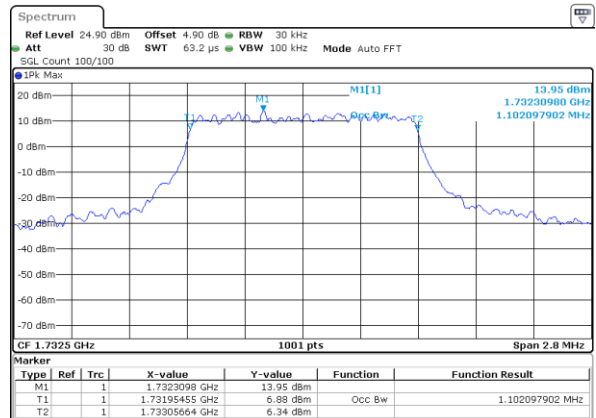
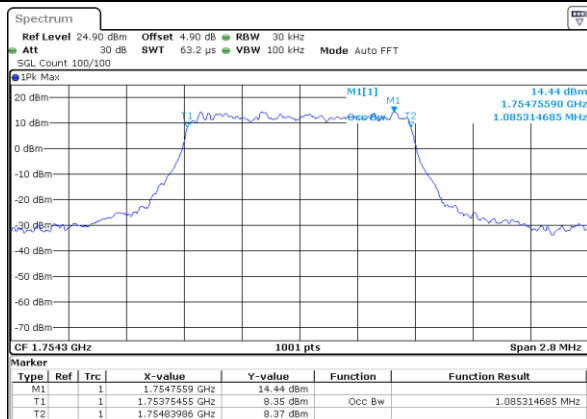
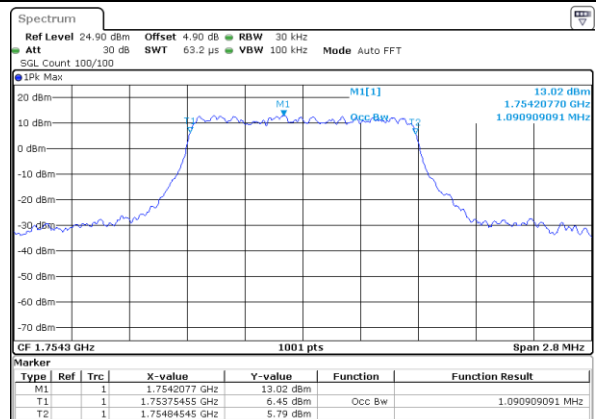
Highest Channel / 5MHz / 64QAM

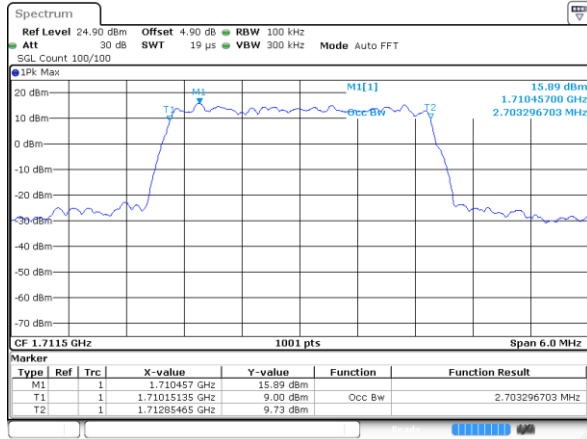
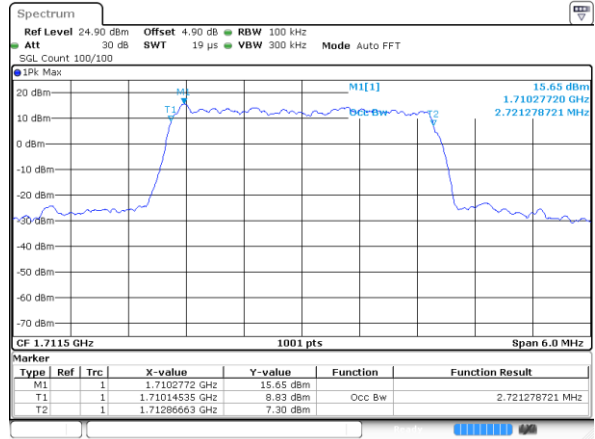
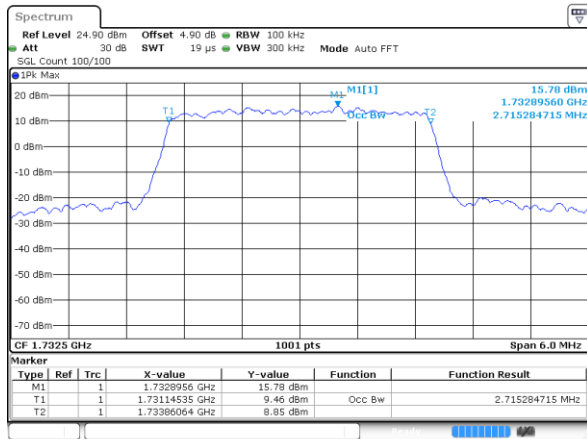
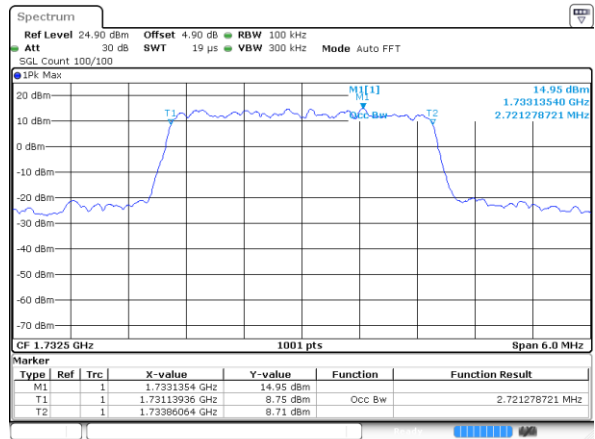
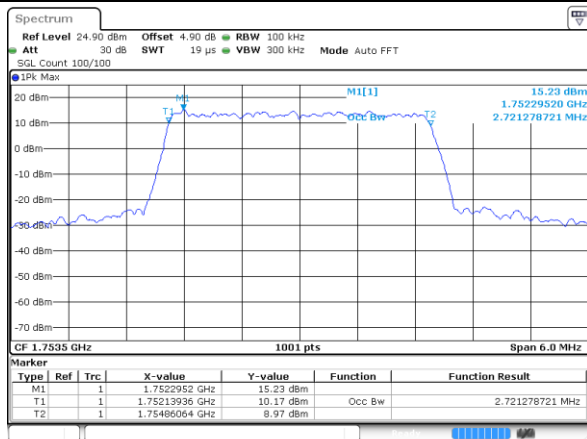
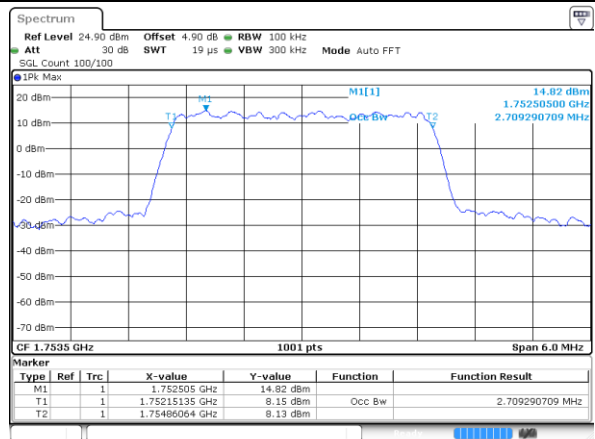


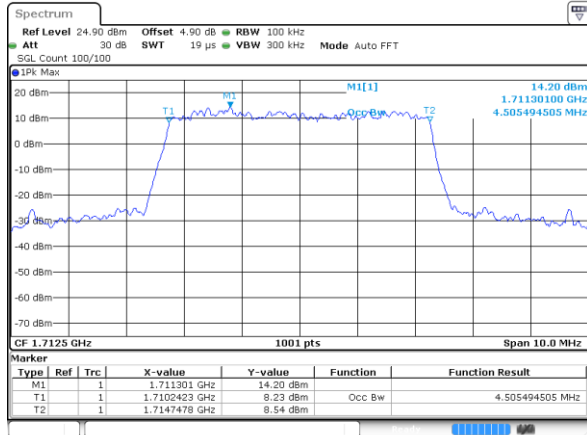
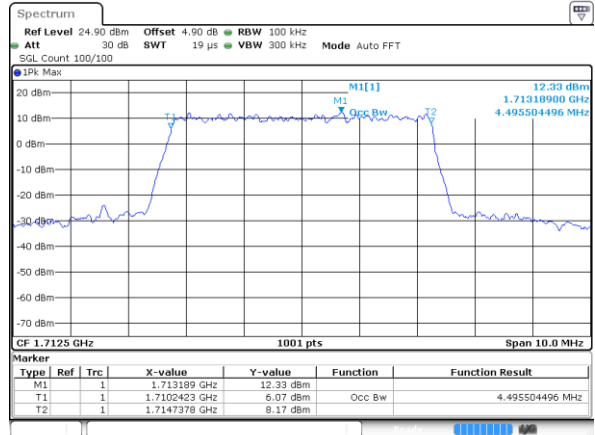
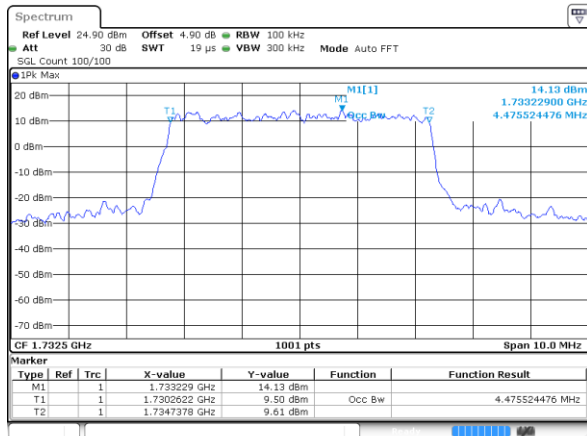
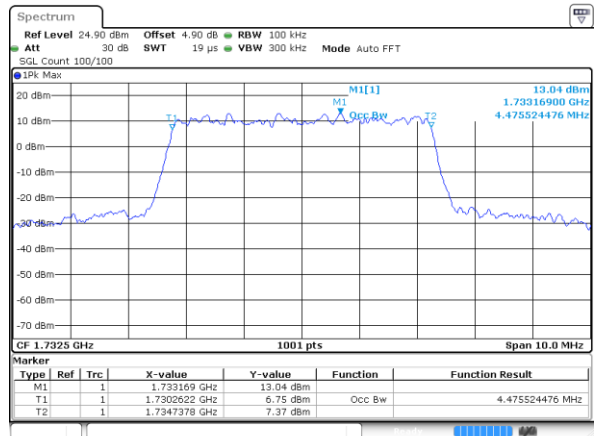
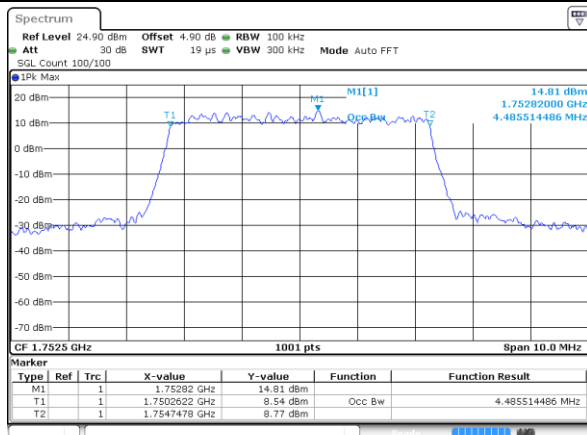
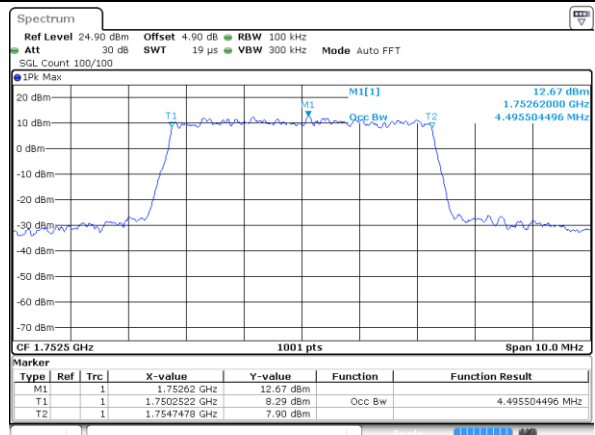
Highest Channel / 10MHz / 64QAM

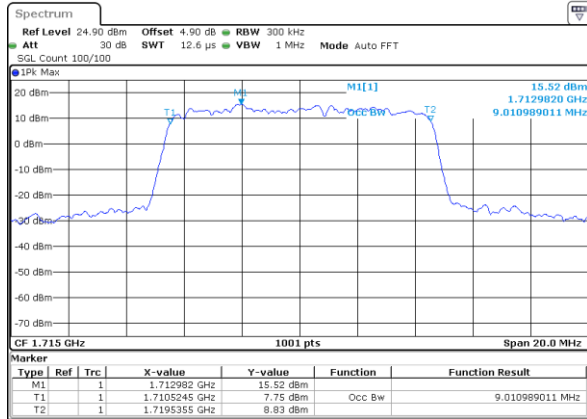
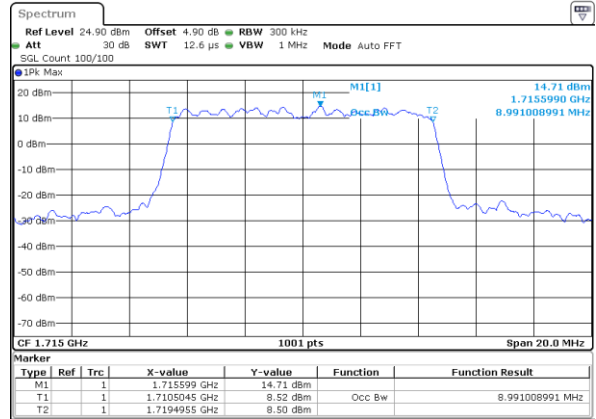
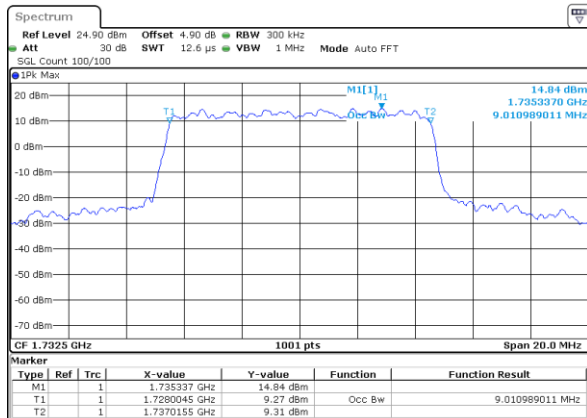
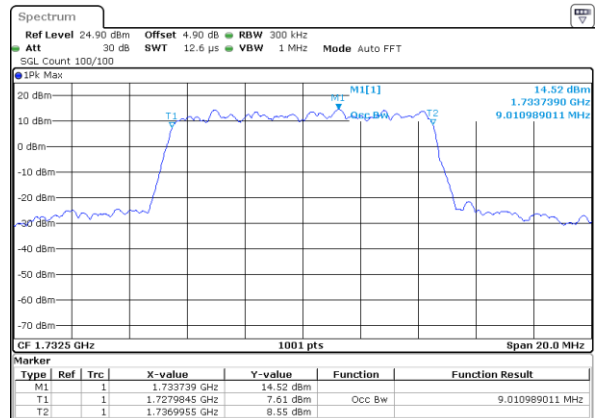
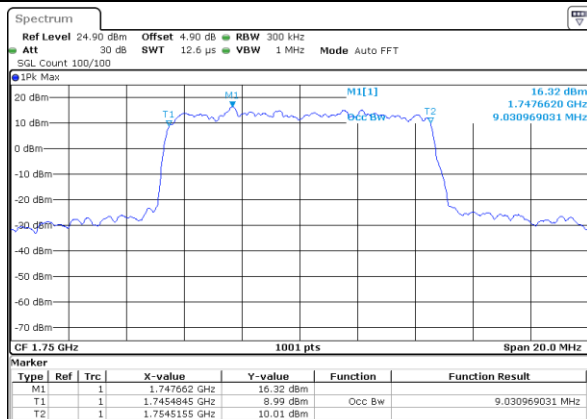
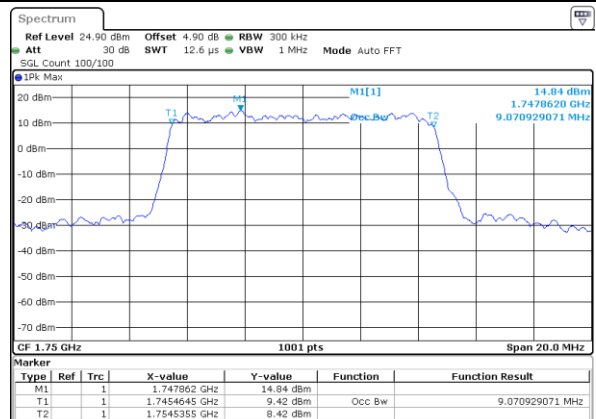


**LTE Band 2****Lowest Channel / 15MHz / 64QAM****Lowest Channel / 20MHz / 64QAM****Middle Channel / 15MHz / 64QAM****Middle Channel / 20MHz / 64QAM****Highest Channel / 15MHz / 64QAM****Highest Channel / 20MHz / 64QAM**

**LTE Band 4****Lowest Channel / 1.4MHz / QPSK****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 4****Lowest Channel / 3MHz / QPSK****Lowest Channel / 3MHz / 16QAM****Middle Channel / 3MHz / QPSK****Middle Channel / 3MHz / 16QAM****Highest Channel / 3MHz / QPSK****Highest Channel / 3MHz / 16QAM**

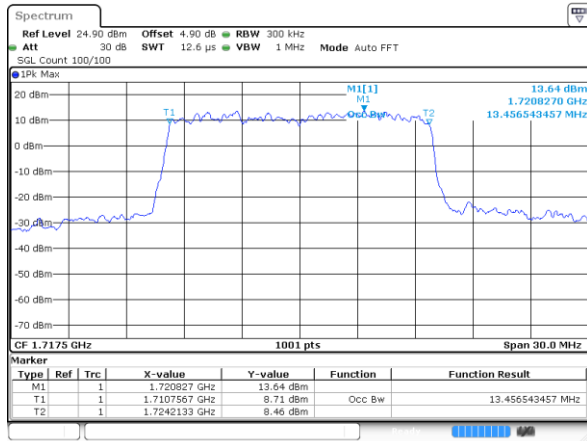
**LTE Band 4****Lowest Channel / 5MHz / QPSK****Lowest Channel / 5MHz / 16QAM****Middle Channel / 5MHz / QPSK****Middle Channel / 5MHz / 16QAM****Highest Channel / 5MHz / QPSK****Highest Channel / 5MHz / 16QAM**

**LTE Band 4****Lowest Channel / 10MHz / QPSK****Lowest Channel / 10MHz / 16QAM****Middle Channel / 10MHz / QPSK****Middle Channel / 10MHz / 16QAM****Highest Channel / 10MHz / QPSK****Highest Channel / 10MHz / 16QAM**

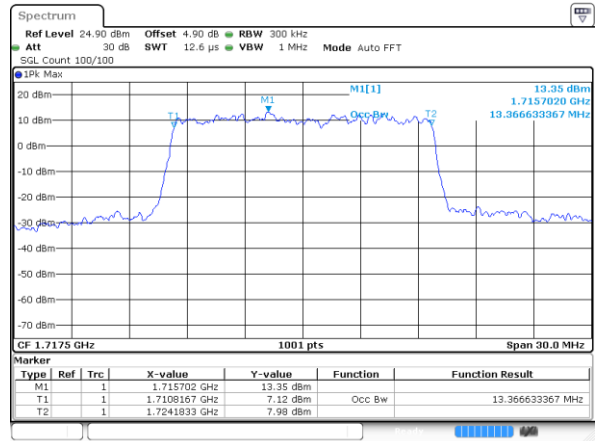


LTE Band 4

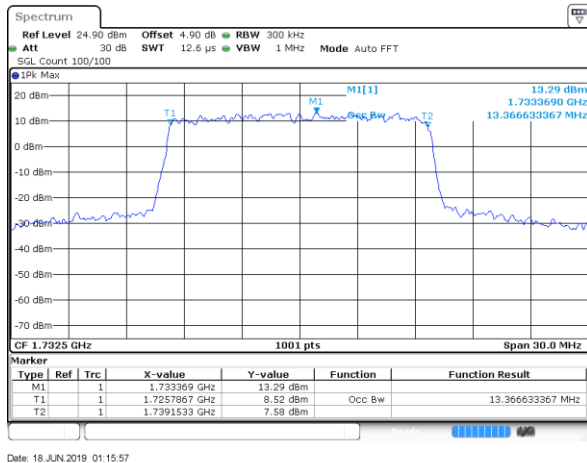
Lowest Channel / 15MHz / QPSK



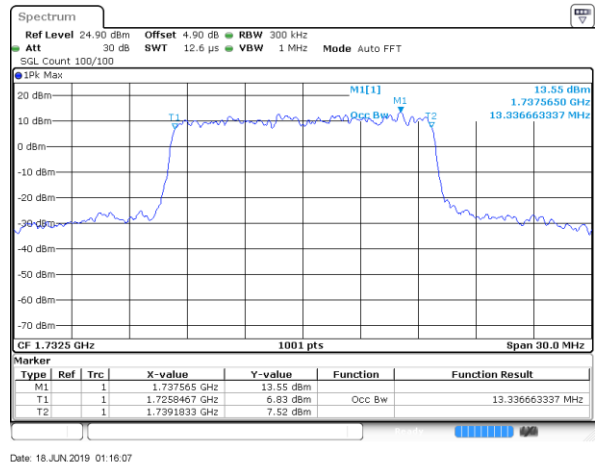
Lowest Channel / 15MHz / 16QAM



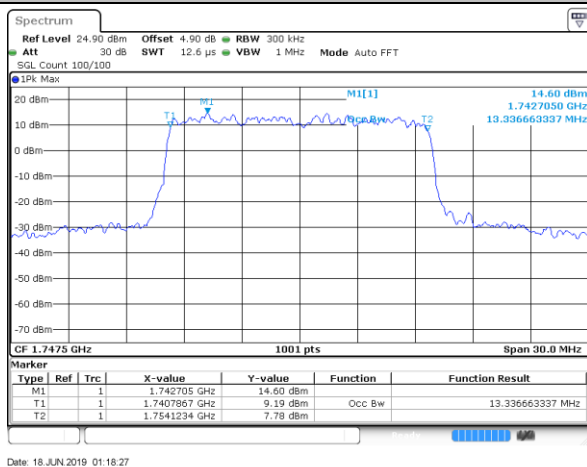
Middle Channel / 15MHz / QPSK



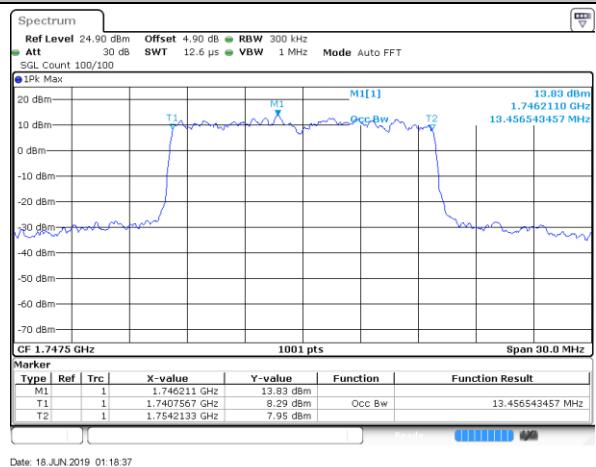
Middle Channel / 15MHz / 16QAM

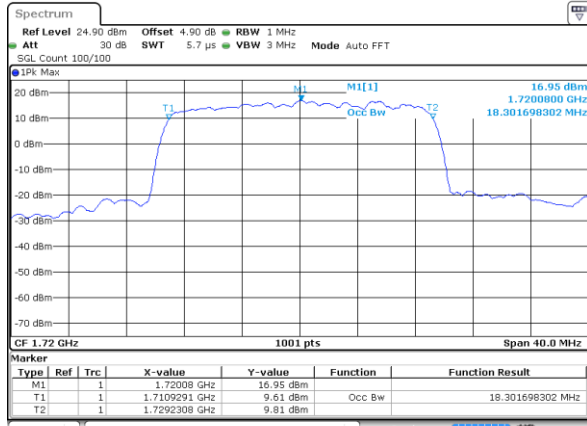


Highest Channel / 15MHz / QPSK

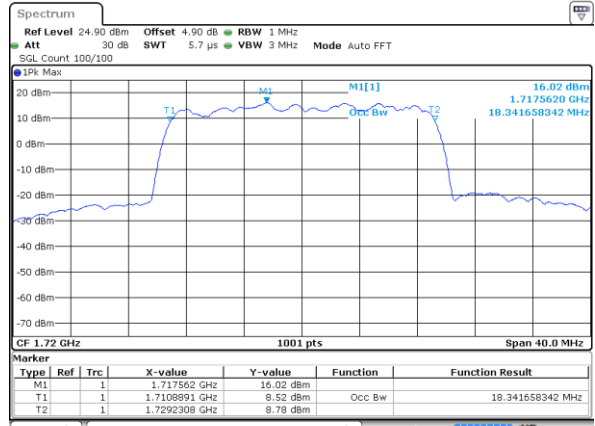


Highest Channel / 15MHz / 16QAM

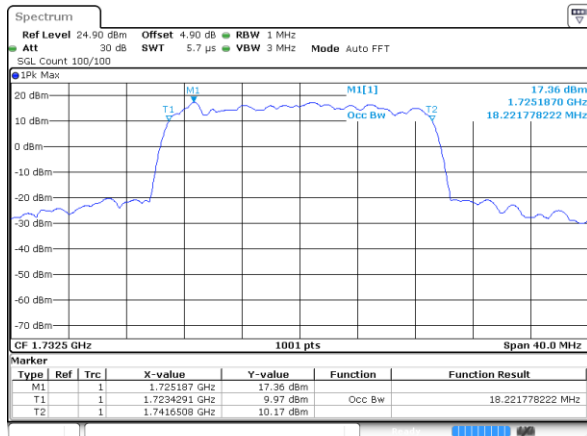


**LTE Band 4****Lowest Channel / 20MHz / QPSK**

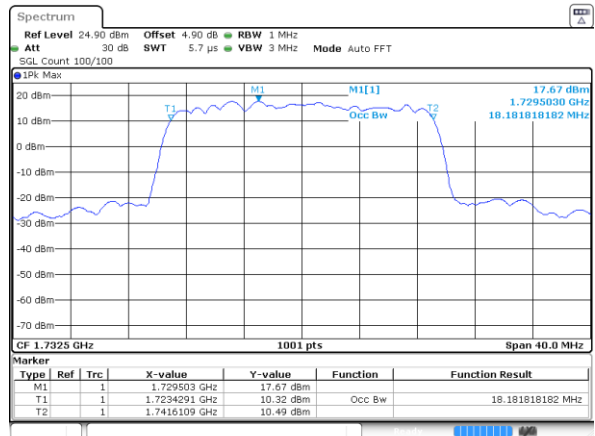
Date: 18 JUN 2019 01:25:26

Lowest Channel / 20MHz / 16QAM

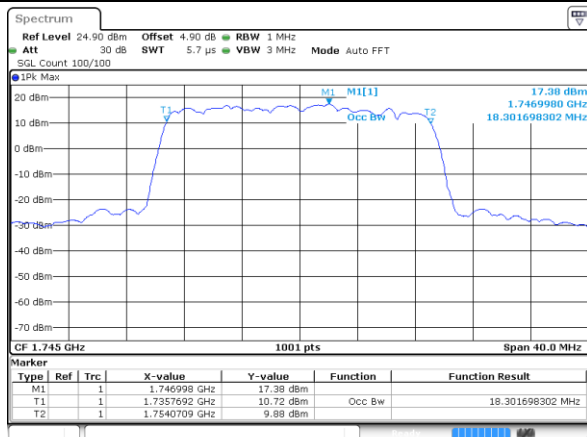
Date: 18 JUN 2019 01:25:37

Middle Channel / 20MHz / QPSK

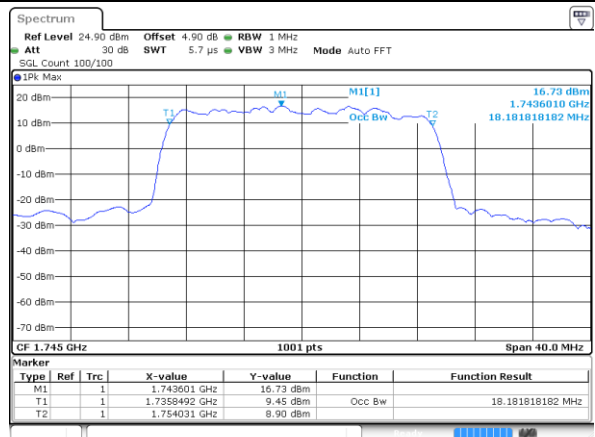
Date: 18 JUN 2019 01:32:27

Middle Channel / 20MHz / 16QAM

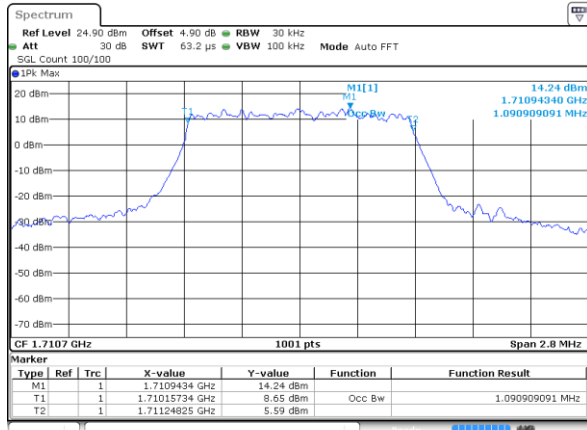
Date: 18 JUN 2019 22:32:07

Highest Channel / 20MHz / QPSK

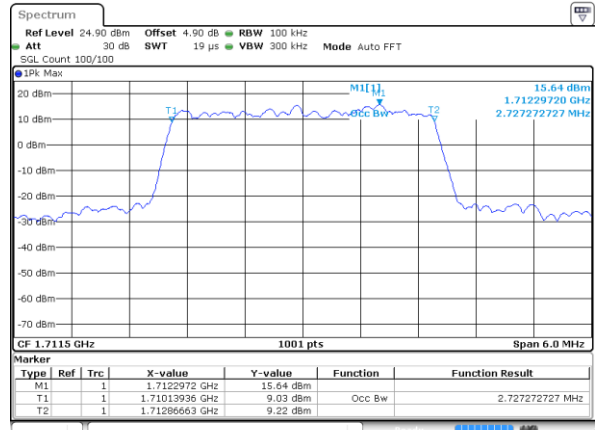
Date: 18 JUN 2019 01:34:56

Highest Channel / 20MHz / 16QAM

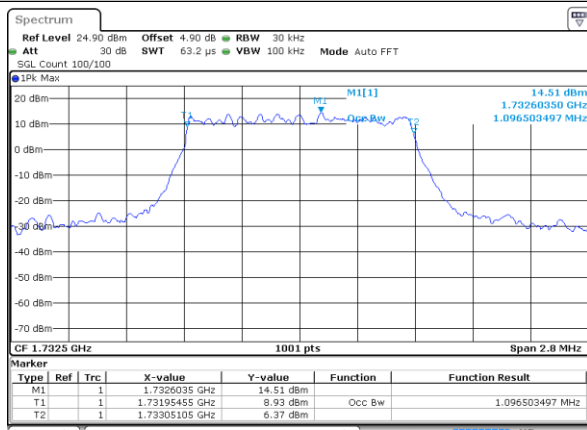
Date: 18 JUN 2019 01:35:06

**LTE Band 4****Lowest Channel / 1.4MHz / 64QAM**

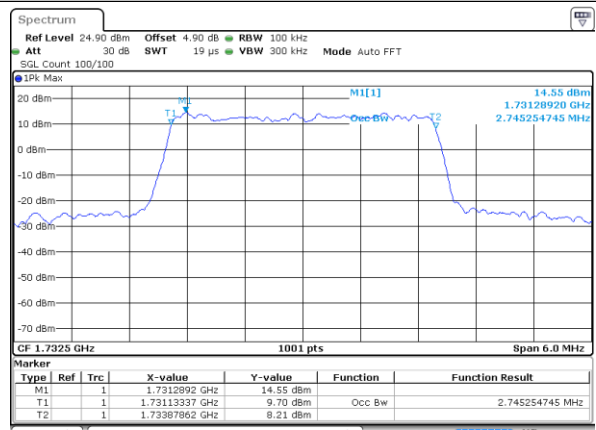
Date: 18 JUN 2019 17:28:07

Lowest Channel / 3MHz / 64QAM

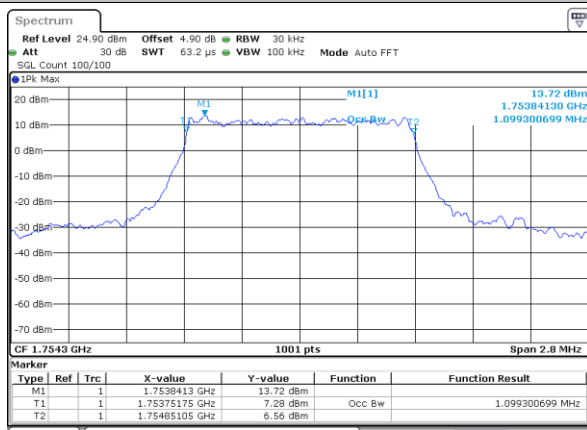
Date: 18 JUN 2019 17:36:25

Middle Channel / 1.4MHz / 64QAM

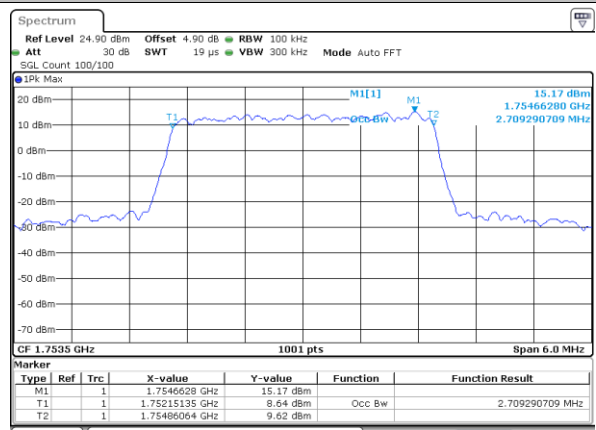
Date: 18 JUN 2019 17:31:39

Middle Channel / 3MHz / 64QAM

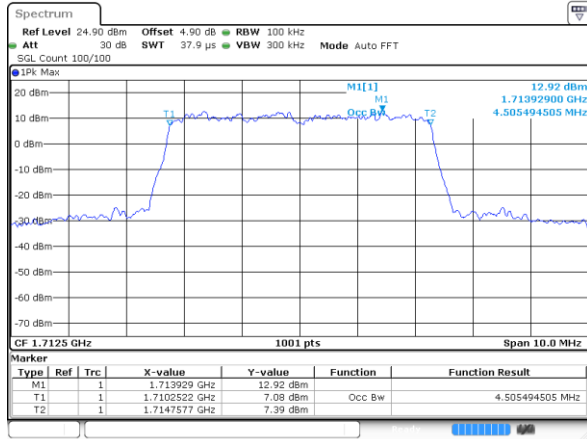
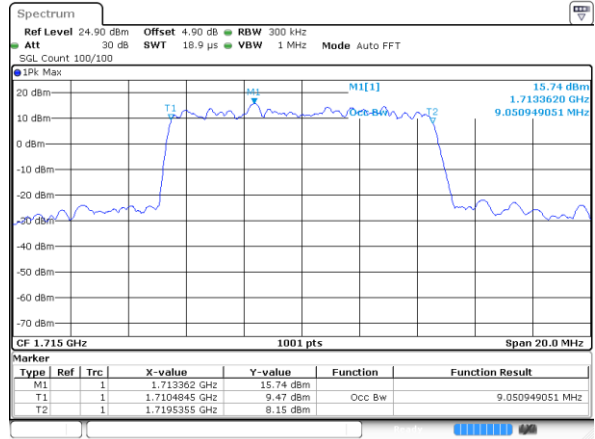
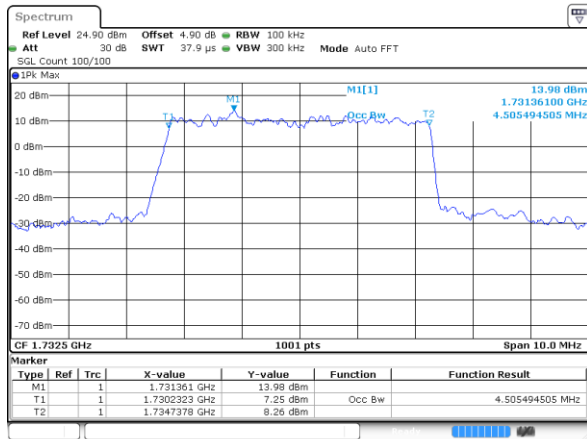
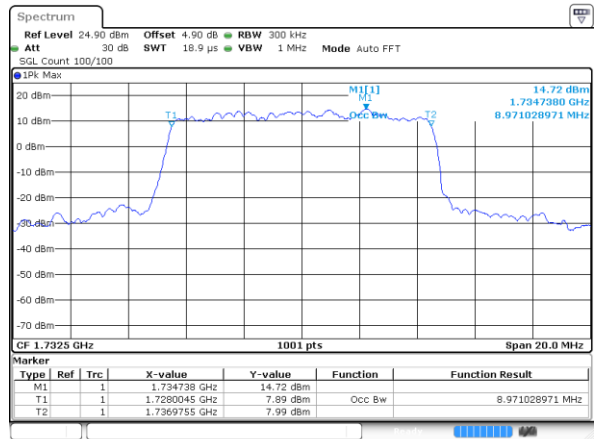
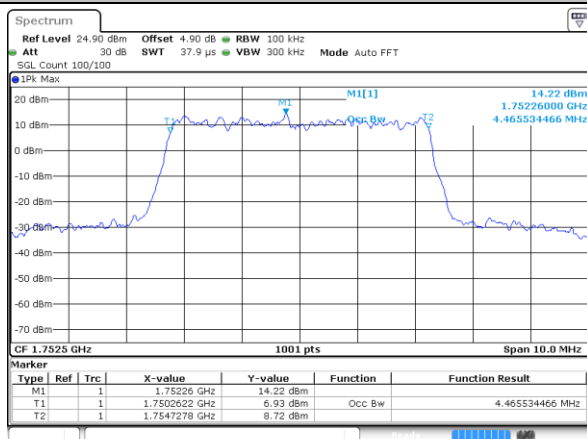
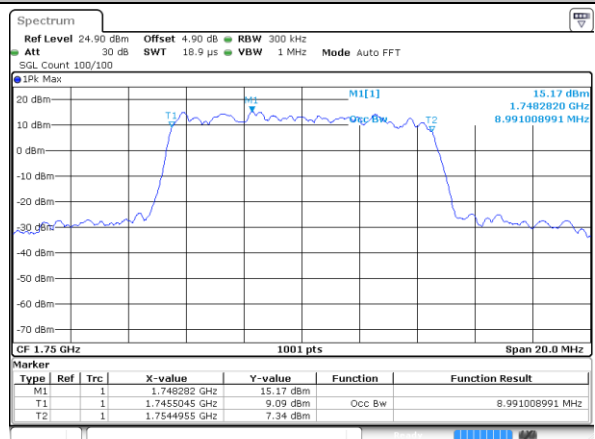
Date: 18 JUN 2019 17:39:57

Highest Channel / 1.4MHz / 64QAM

Date: 18 JUN 2019 17:32:53

Highest Channel / 3MHz / 64QAM

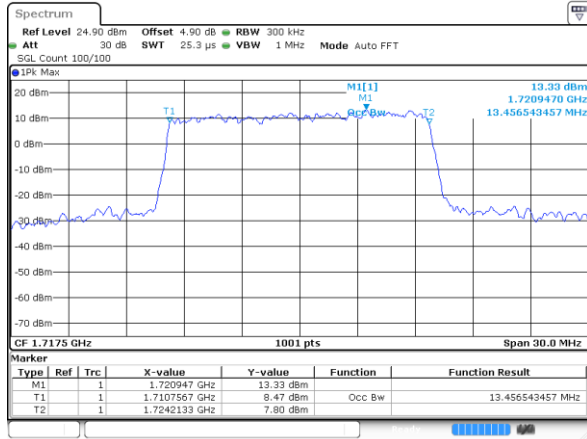
Date: 18 JUN 2019 17:41:11

**LTE Band 4****Lowest Channel / 5MHz / 64QAM****Lowest Channel / 10MHz / 64QAM****Middle Channel / 5MHz / 64QAM****Middle Channel / 10MHz / 64QAM****Highest Channel / 5MHz / 64QAM****Highest Channel / 10MHz / 64QAM**

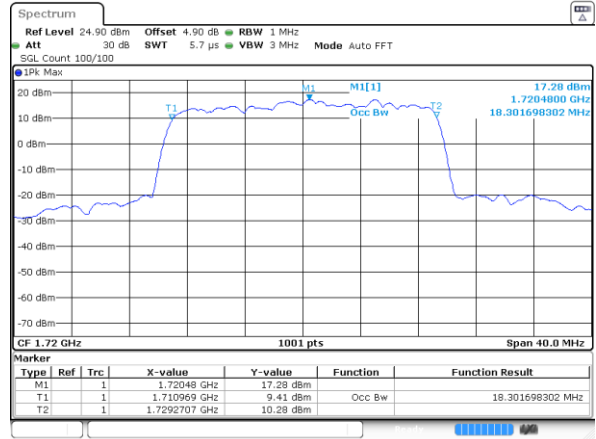


LTE Band 4

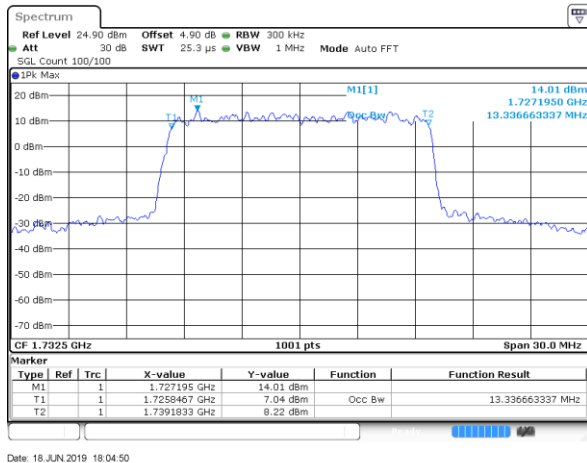
Lowest Channel / 15MHz / 64QAM



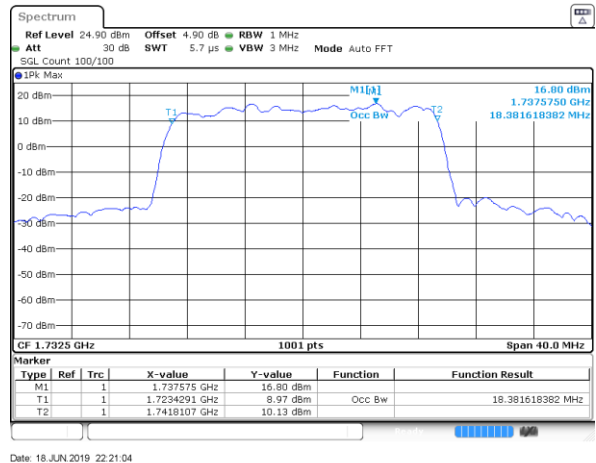
Lowest Channel / 20MHz / 64QAM



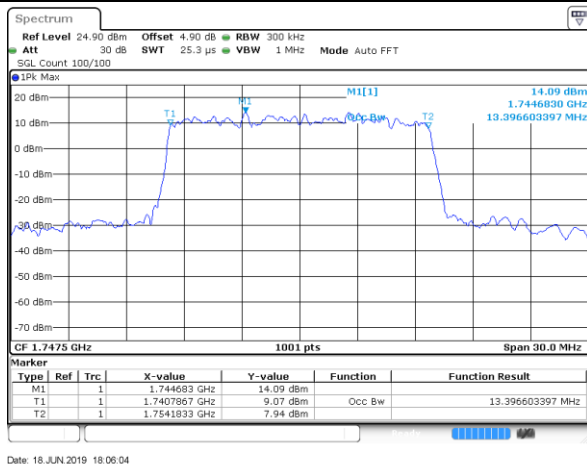
Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

