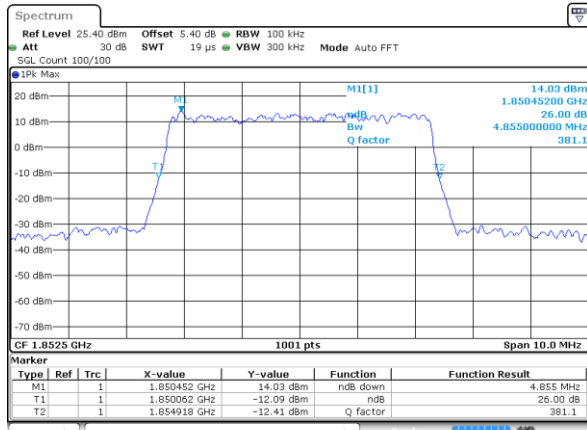


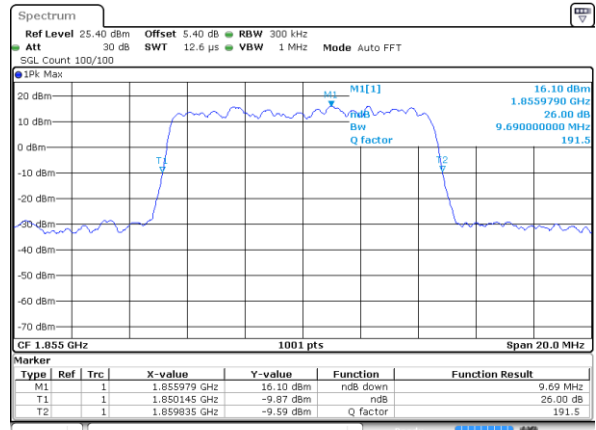


LTE Band 2

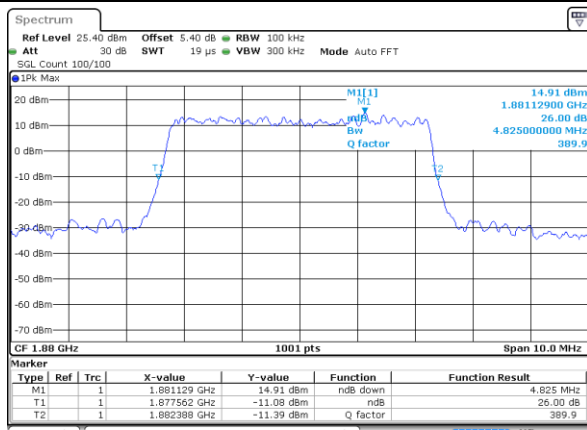
Lowest Channel / 5MHz / 64QAM



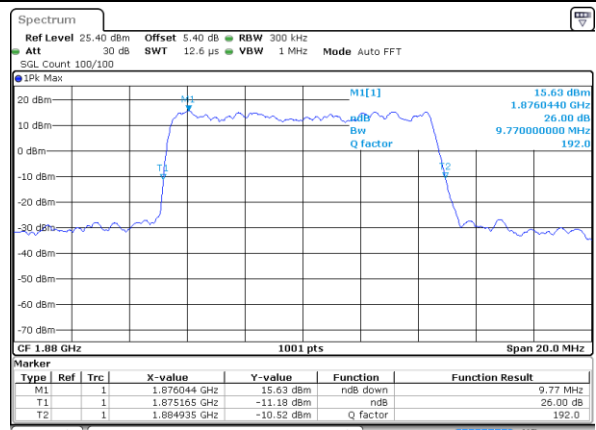
Lowest Channel / 10MHz / 64QAM



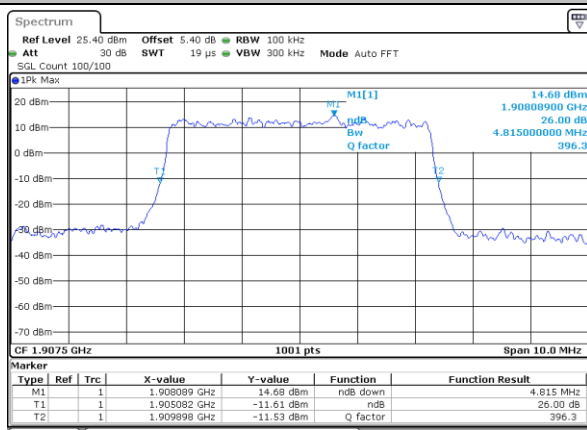
Middle Channel / 5MHz / 64QAM



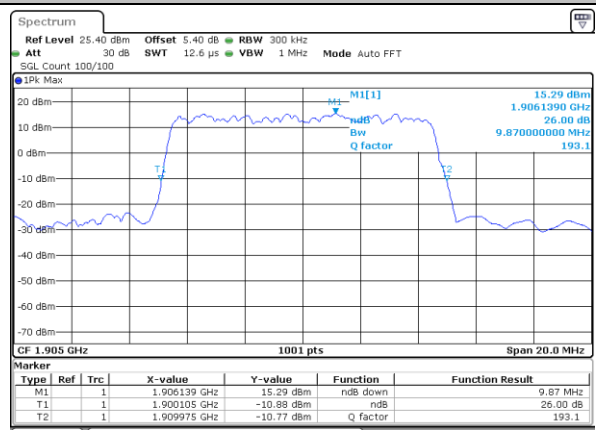
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



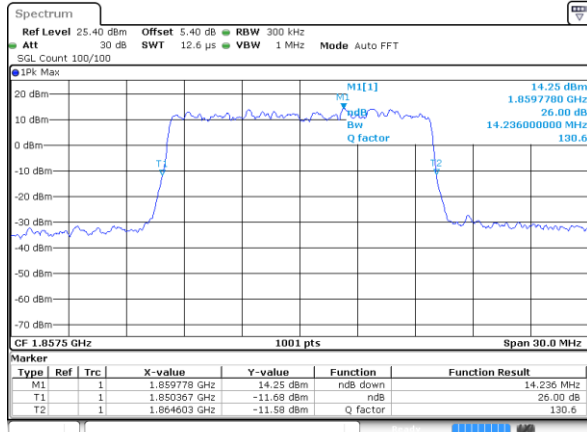
Highest Channel / 10MHz / 64QAM





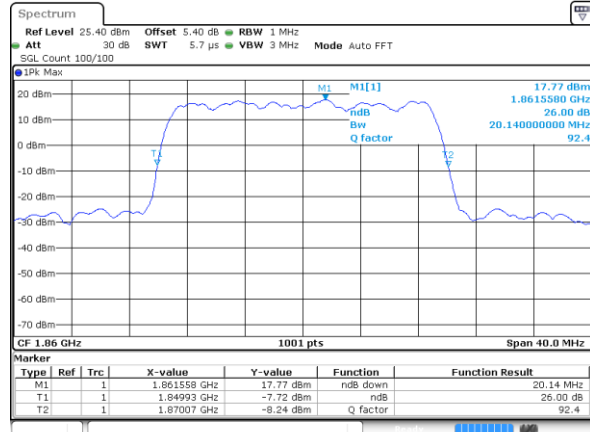
LTE Band 2

Lowest Channel / 15MHz / 64QAM



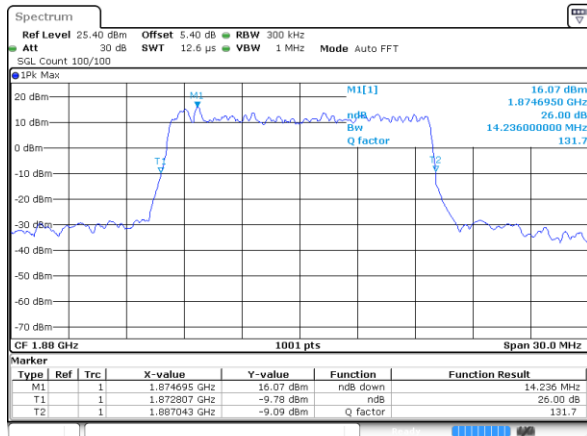
Date: 5 JUL 2019 03:01:27

Lowest Channel / 20MHz / 64QAM



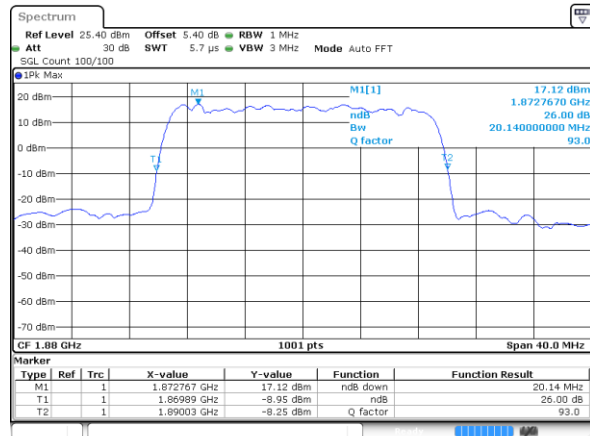
Date: 5 JUL 2019 03:01:57

Middle Channel / 15MHz / 64QAM



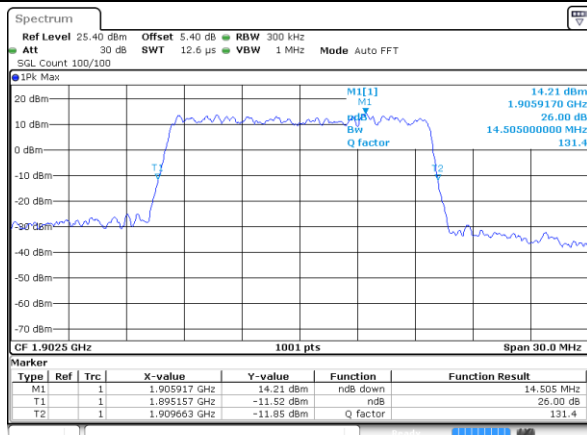
Date: 5 JUL 2019 03:01:37

Middle Channel / 20MHz / 64QAM



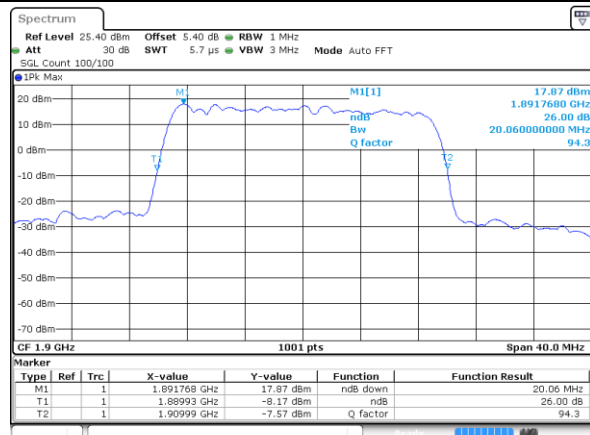
Date: 5 JUL 2019 03:02:07

Highest Channel / 15MHz / 64QAM



Date: 5 JUL 2019 03:01:47

Highest Channel / 20MHz / 64QAM

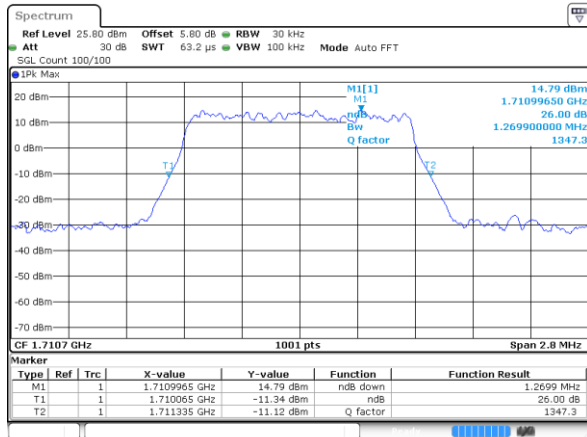


Date: 5 JUL 2019 03:02:17



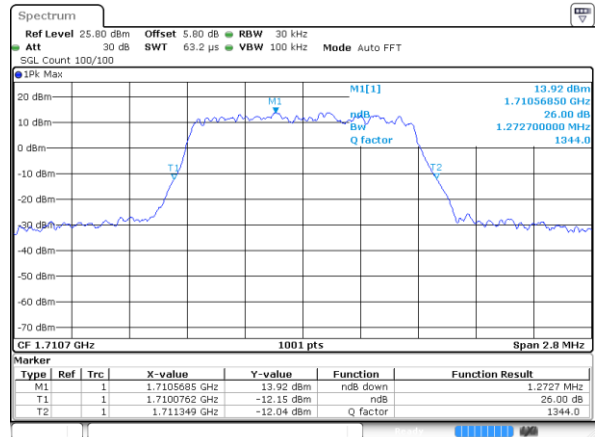
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



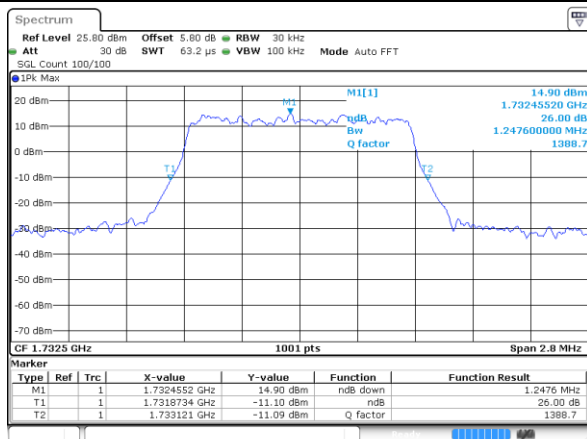
Date: 6 JUL 2019 20:24:55

Lowest Channel / 1.4MHz / 16QAM



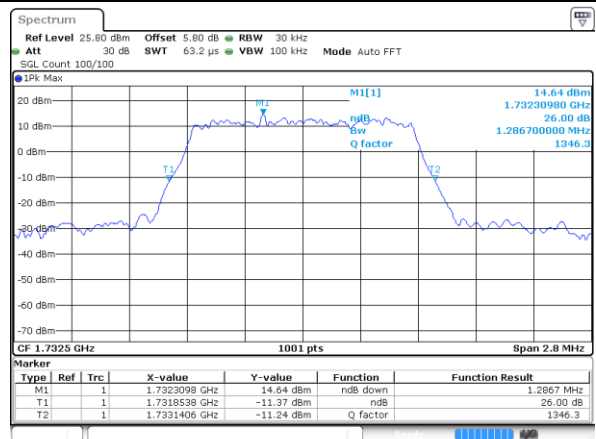
Date: 6 JUL 2019 20:25:05

Middle Channel / 1.4MHz / QPSK



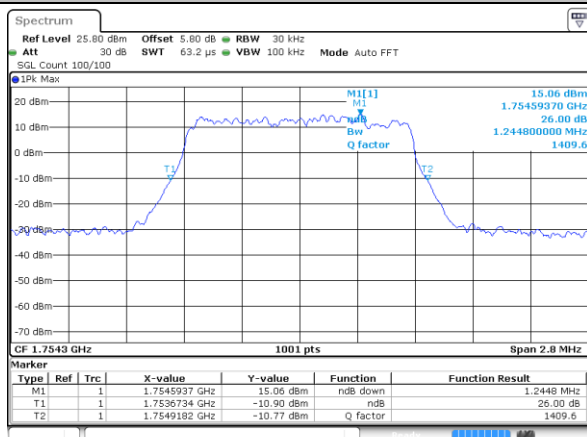
Date: 6 JUL 2019 20:31:55

Middle Channel / 1.4MHz / 16QAM



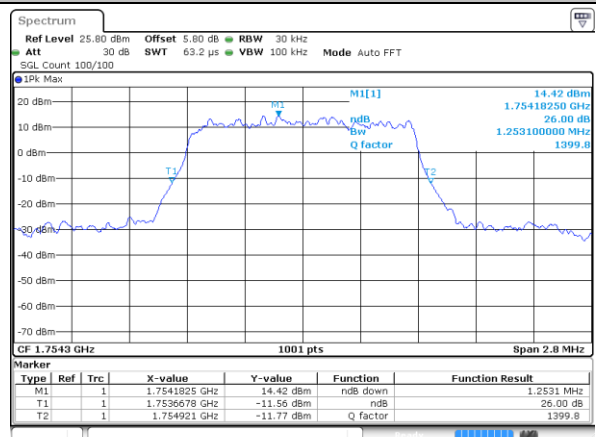
Date: 6 JUL 2019 20:32:05

Highest Channel / 1.4MHz / QPSK



Date: 6 JUL 2019 20:34:25

Highest Channel / 1.4MHz / 16QAM

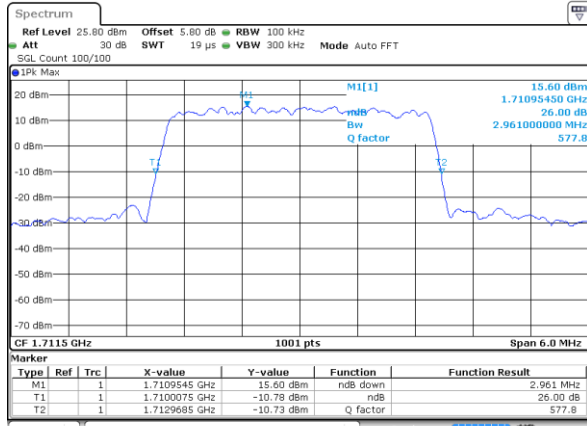


Date: 6 JUL 2019 20:34:35



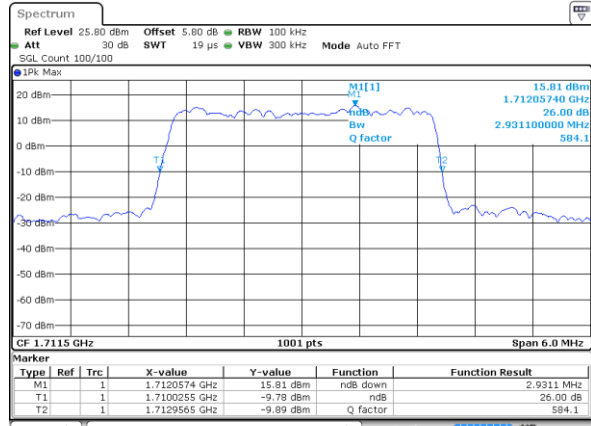
LTE Band 4

Lowest Channel / 3MHz / QPSK



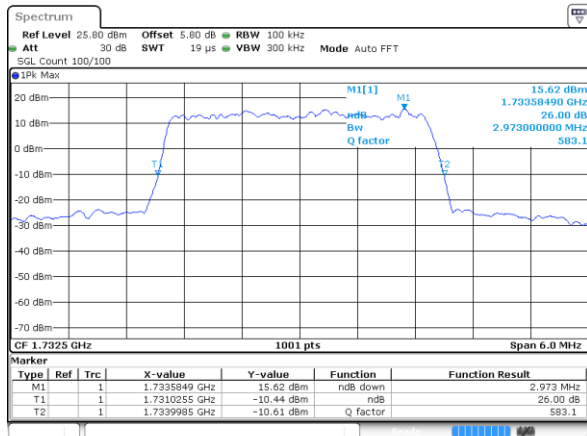
Date: 6 JUL 2019 20:41:26

Lowest Channel / 3MHz / 16QAM



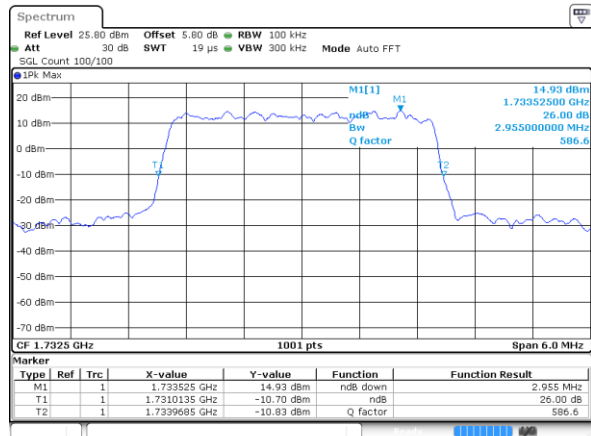
Date: 6 JUL 2019 20:41:36

Middle Channel / 3MHz / QPSK



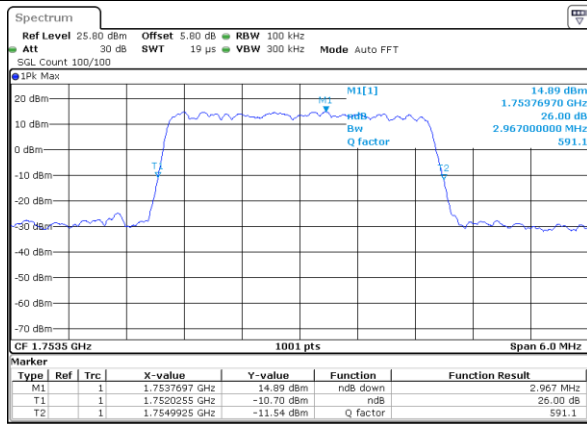
Date: 6 JUL 2019 20:48:26

Middle Channel / 3MHz / 16QAM



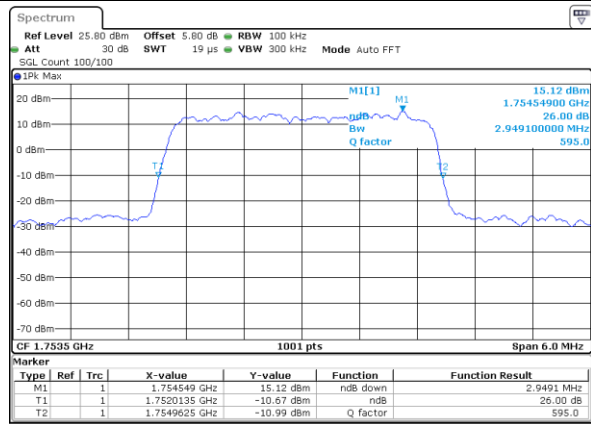
Date: 6 JUL 2019 20:48:36

Highest Channel / 3MHz / QPSK



Date: 6 JUL 2019 20:50:56

Highest Channel / 3MHz / 16QAM

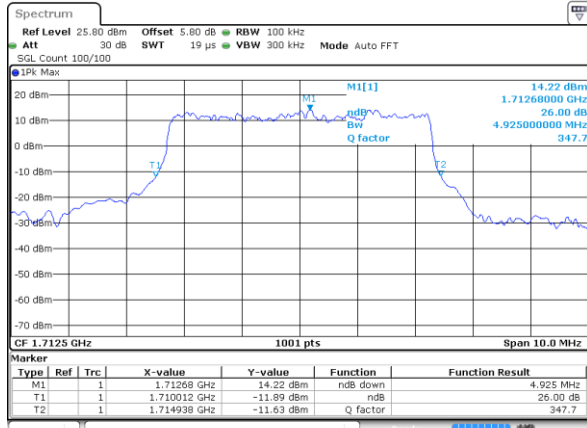


Date: 6 JUL 2019 20:51:06



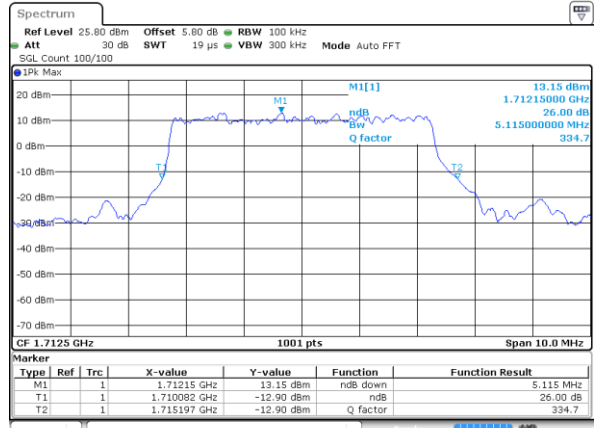
LTE Band 4

Lowest Channel / 5MHz / QPSK



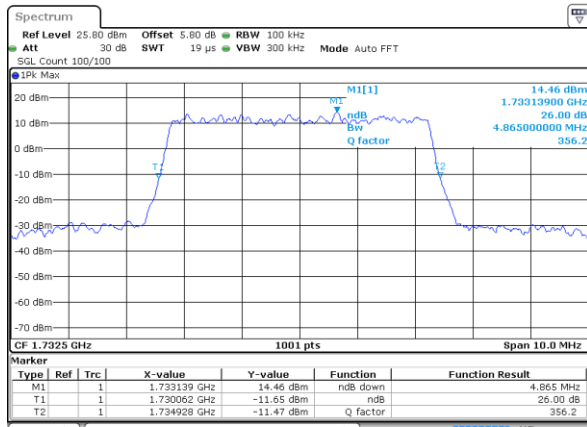
Date: 6 JUL 2019 20:57:57

Lowest Channel / 5MHz / 16QAM



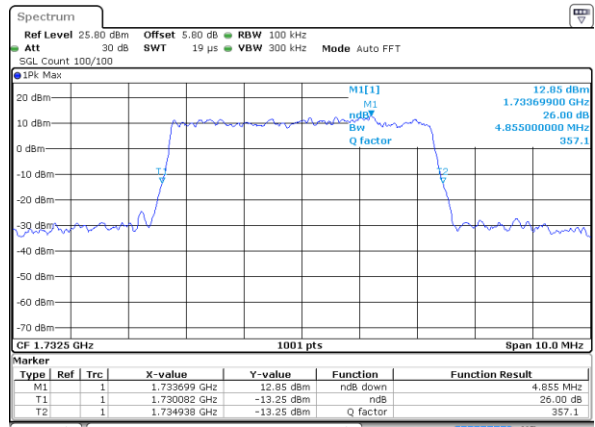
Date: 6 JUL 2019 20:58:07

Middle Channel / 5MHz / QPSK



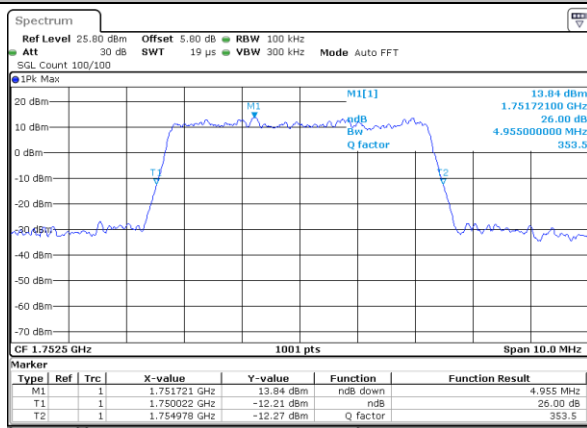
Date: 6 JUL 2019 21:04:57

Middle Channel / 5MHz / 16QAM



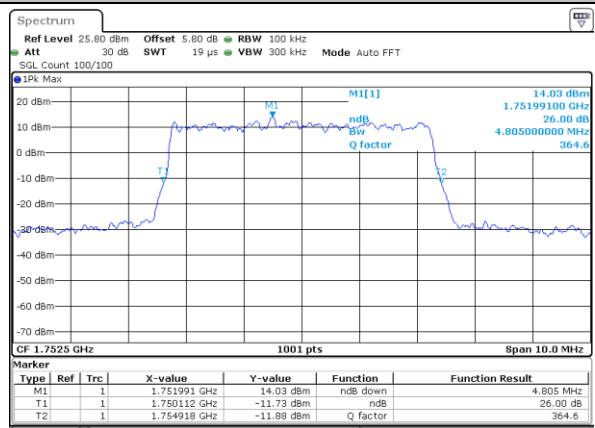
Date: 6 JUL 2019 21:05:07

Highest Channel / 5MHz / QPSK



Date: 6 JUL 2019 21:07:27

Highest Channel / 5MHz / 16QAM

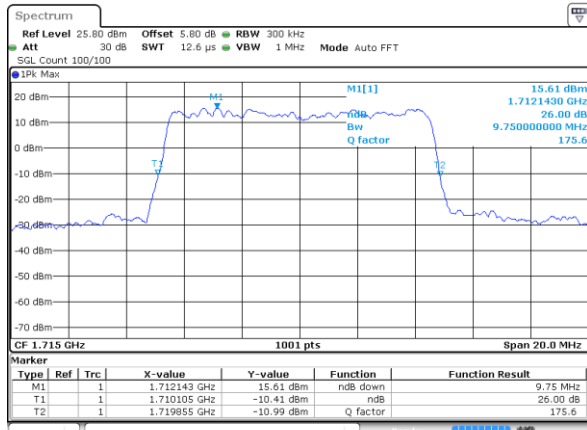


Date: 6 JUL 2019 21:07:37



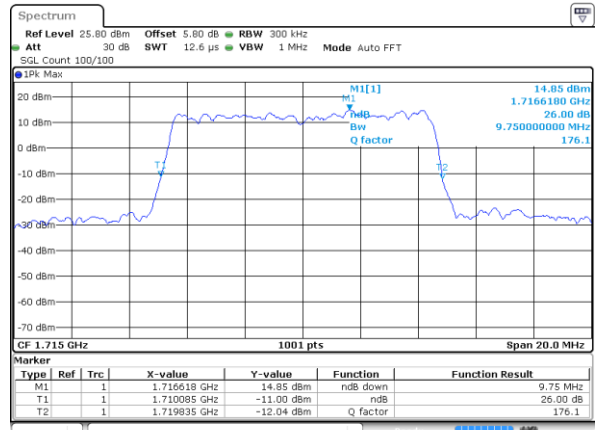
LTE Band 4

Lowest Channel / 10MHz / QPSK



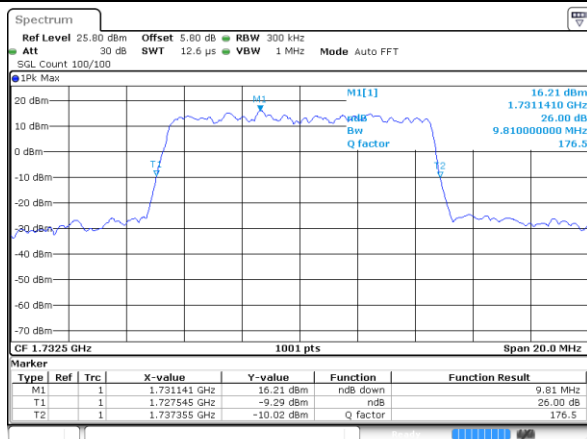
Date: 6 JUL 2019 21:14:27

Lowest Channel / 10MHz / 16QAM



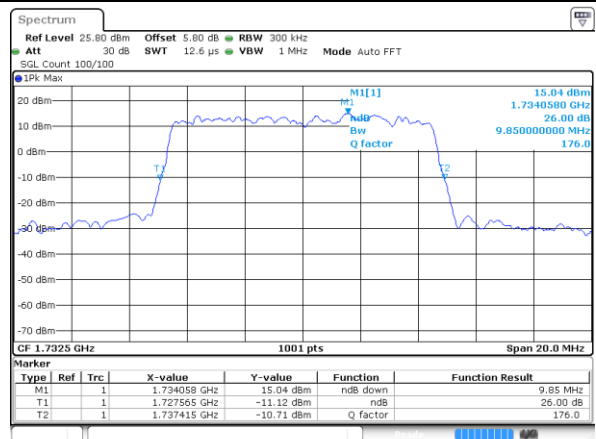
Date: 6 JUL 2019 21:14:37

Middle Channel / 10MHz / QPSK



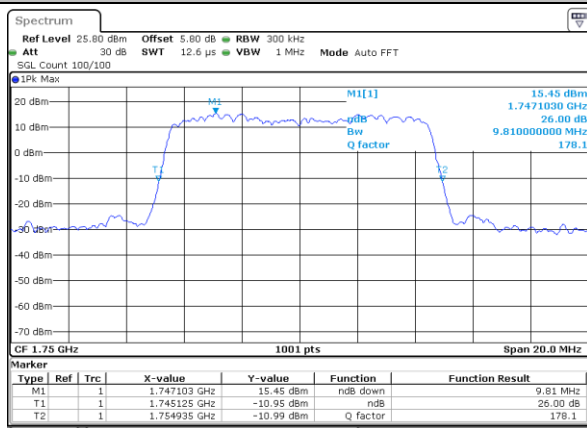
Date: 6 JUL 2019 21:21:27

Middle Channel / 10MHz / 16QAM



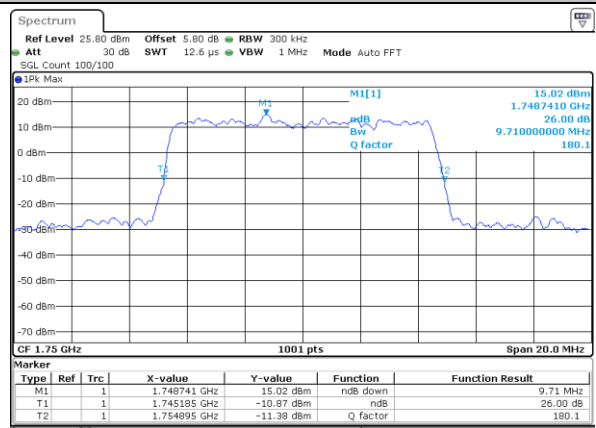
Date: 6 JUL 2019 21:21:37

Highest Channel / 10MHz / QPSK



Date: 6 JUL 2019 21:23:57

Highest Channel / 10MHz / 16QAM

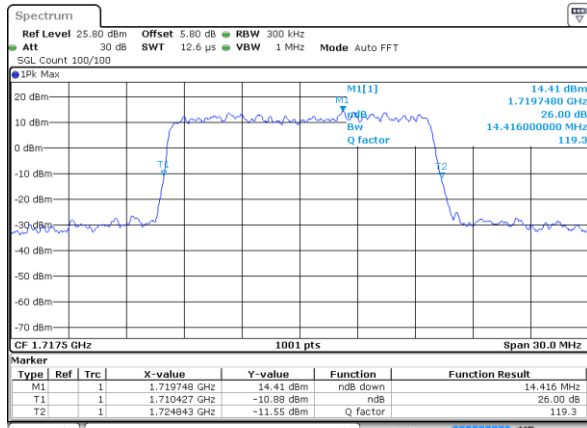


Date: 6 JUL 2019 21:24:07



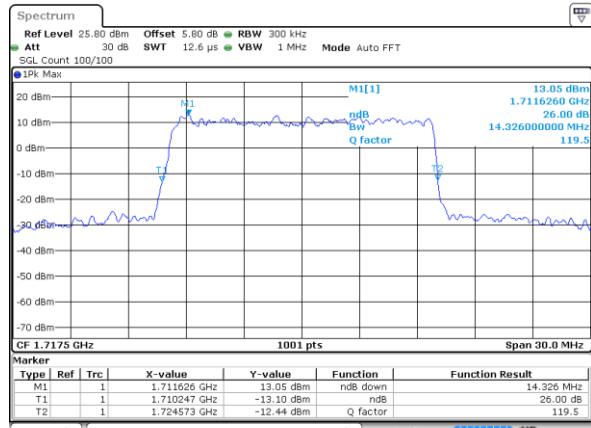
LTE Band 4

Lowest Channel / 15MHz / QPSK



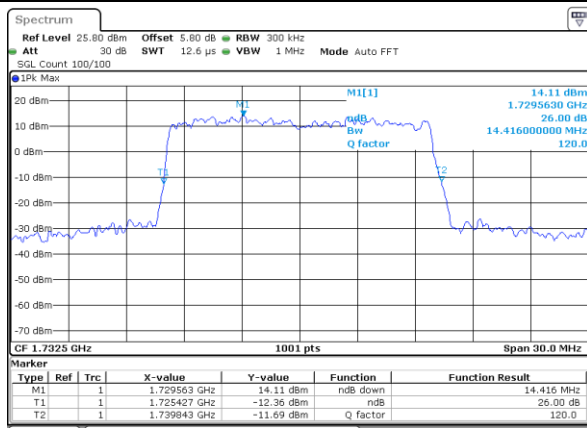
Date: 6 JUL 2019 21:30:58

Lowest Channel / 15MHz / 16QAM



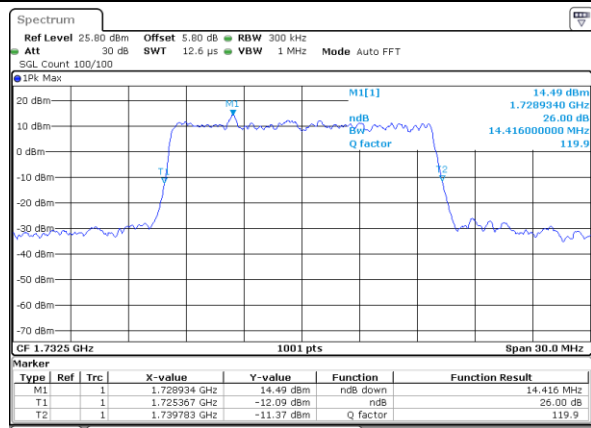
Date: 6 JUL 2019 21:31:08

Middle Channel / 15MHz / QPSK



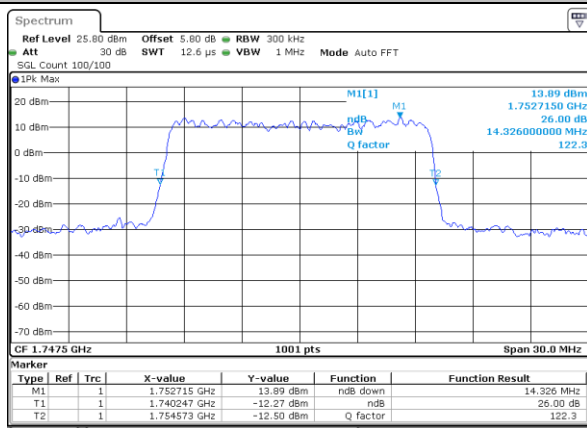
Date: 6 JUL 2019 21:37:58

Middle Channel / 15MHz / 16QAM



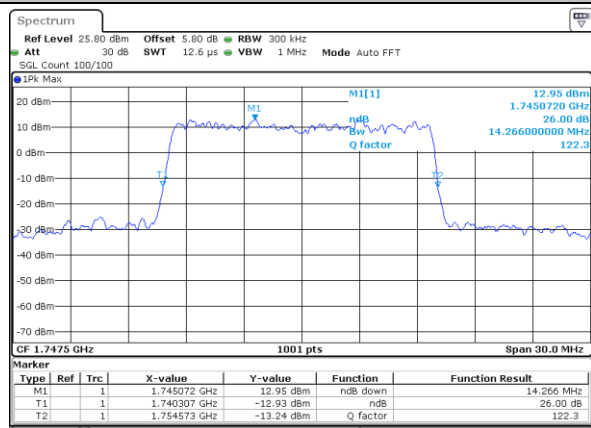
Date: 6 JUL 2019 21:38:08

Highest Channel / 15MHz / QPSK



Date: 6 JUL 2019 21:40:28

Highest Channel / 15MHz / 16QAM

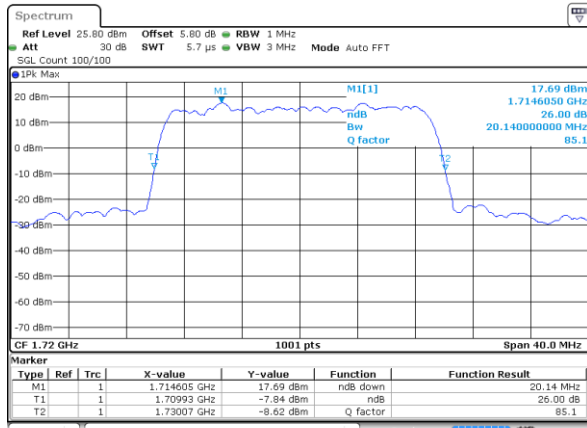


Date: 6 JUL 2019 21:40:38

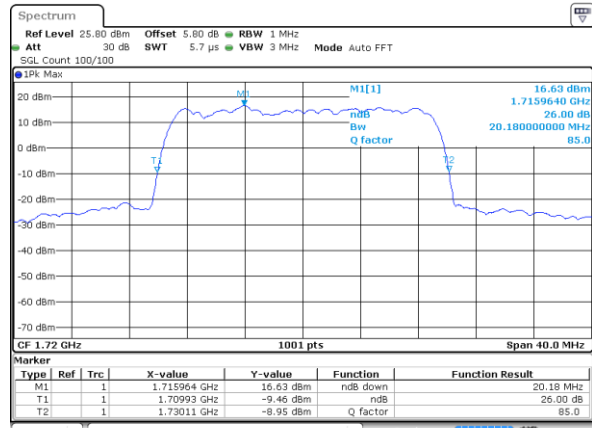


LTE Band 4

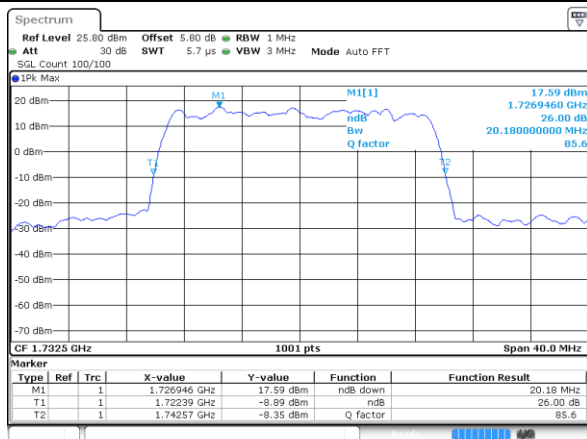
Lowest Channel / 20MHz / QPSK



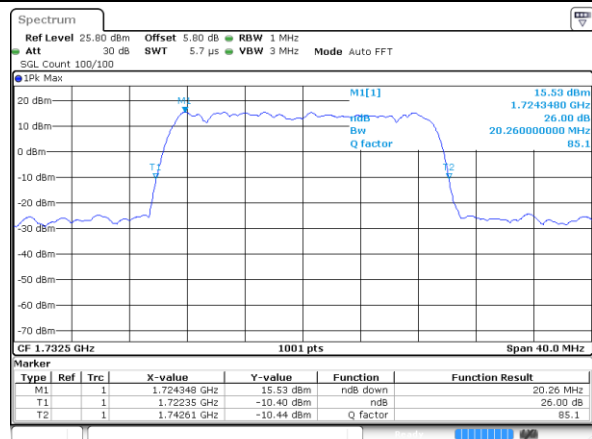
Lowest Channel / 20MHz / 16QAM



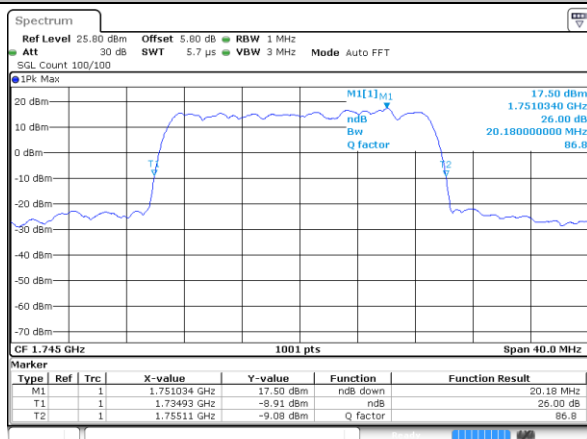
Middle Channel / 20MHz / QPSK



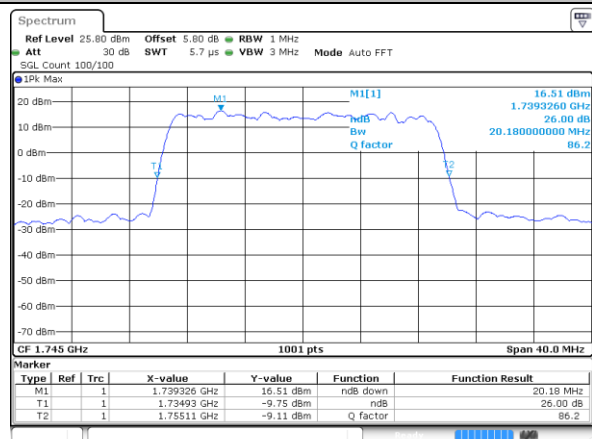
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



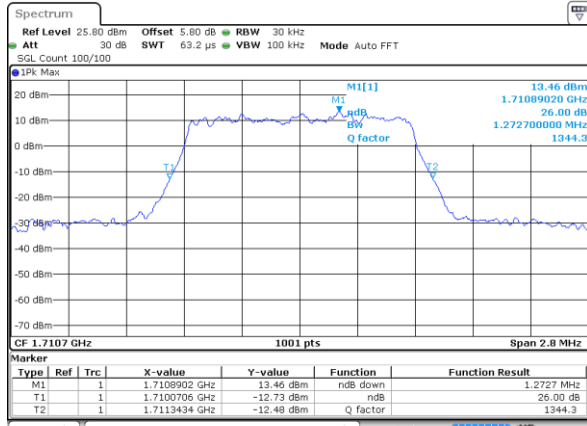
Highest Channel / 20MHz / 16QAM





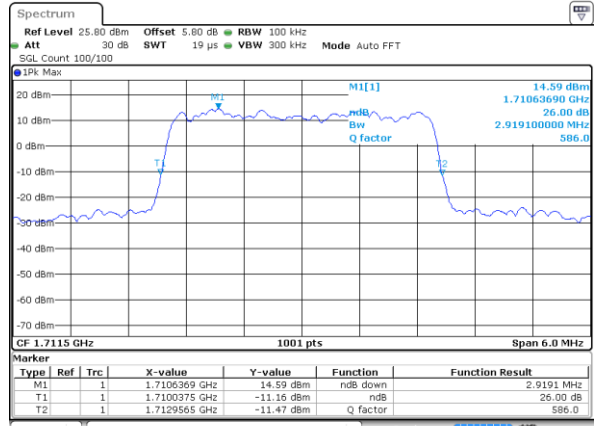
LTE Band 4

Lowest Channel / 1.4MHz / 64QAM



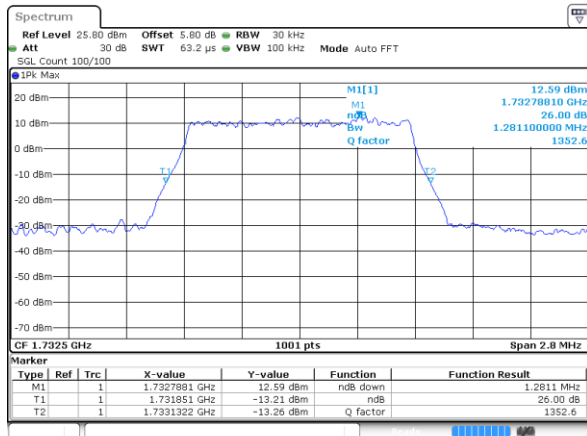
Date: 6 JUL 2019 22:06:57

Lowest Channel / 3MHz / 64QAM



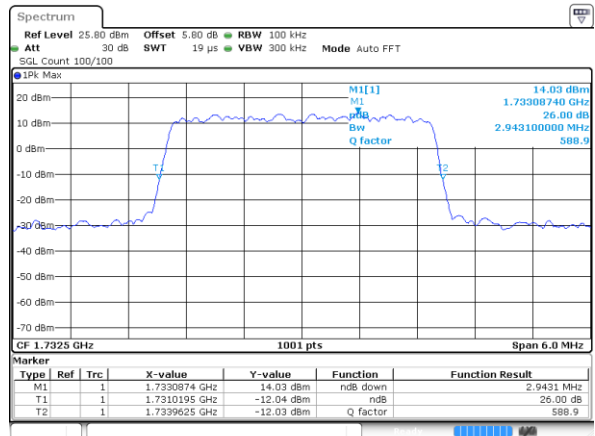
Date: 6 JUL 2019 22:15:13

Middle Channel / 1.4MHz / 64QAM



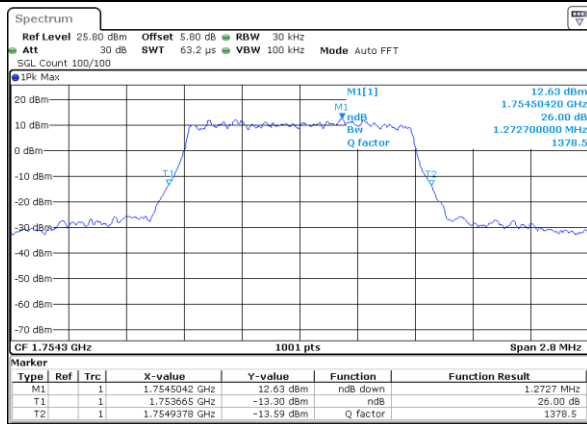
Date: 6 JUL 2019 22:10:27

Middle Channel / 3MHz / 64QAM



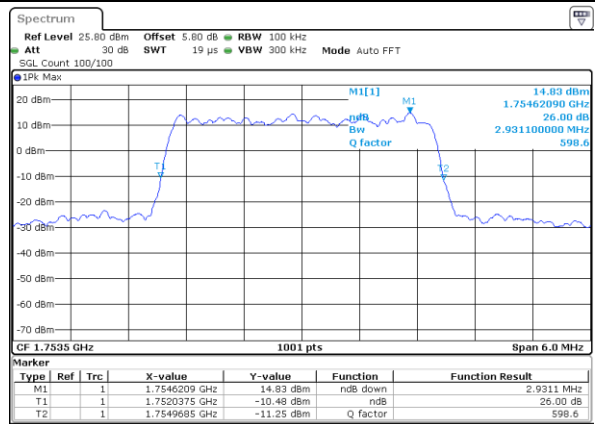
Date: 6 JUL 2019 22:18:43

Highest Channel / 1.4MHz / 64QAM



Date: 6 JUL 2019 22:11:42

Highest Channel / 3MHz / 64QAM

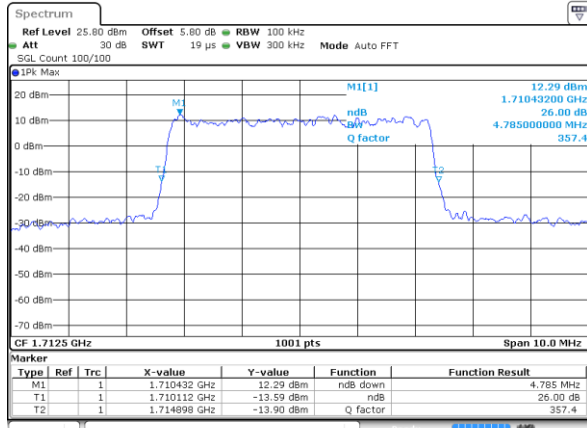


Date: 6 JUL 2019 22:19:58

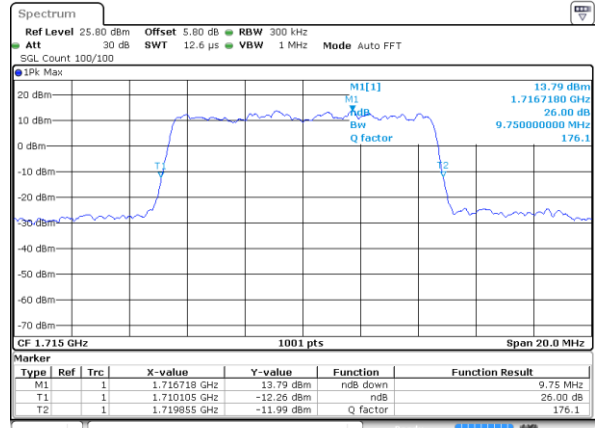


LTE Band 4

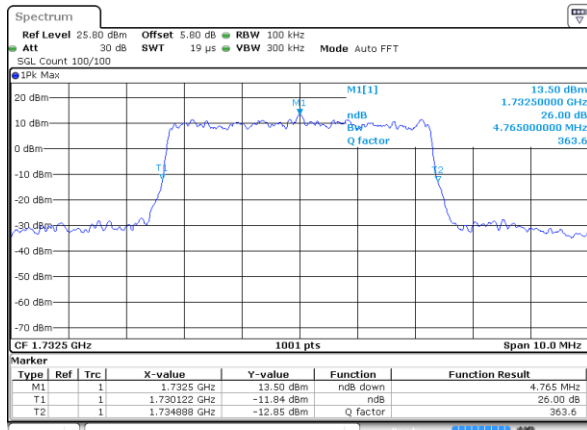
Lowest Channel / 5MHz / 64QAM



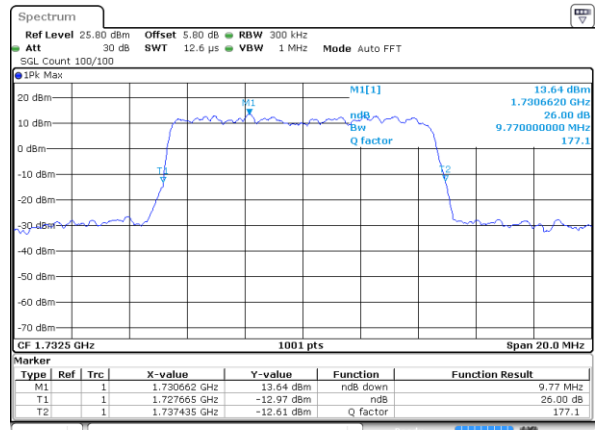
Lowest Channel / 10MHz / 64QAM



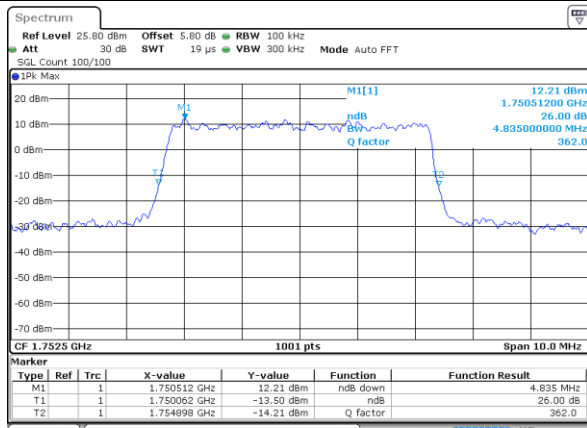
Middle Channel / 5MHz / 64QAM



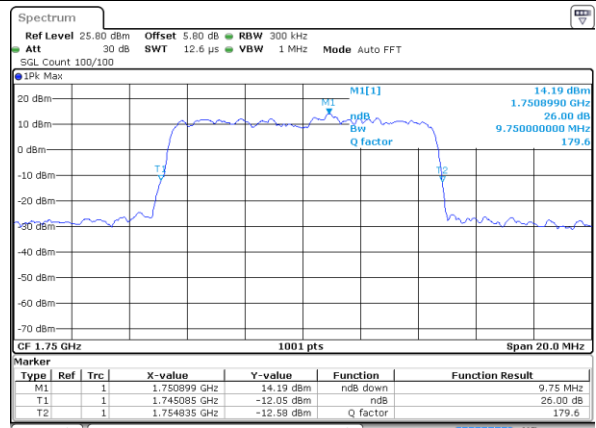
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



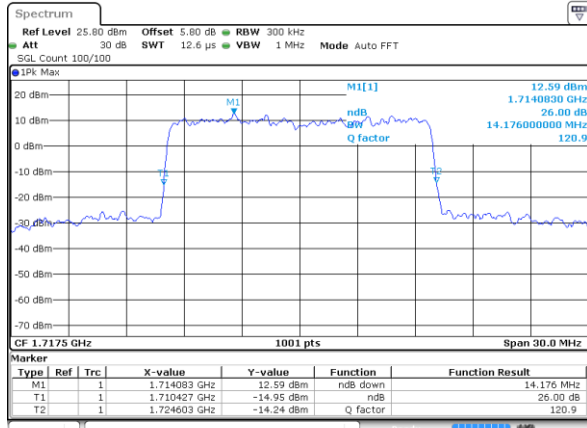
Highest Channel / 10MHz / 64QAM





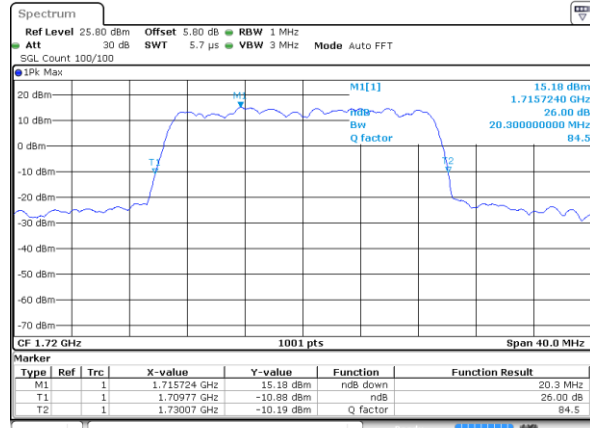
LTE Band 4

Lowest Channel / 15MHz / 64QAM



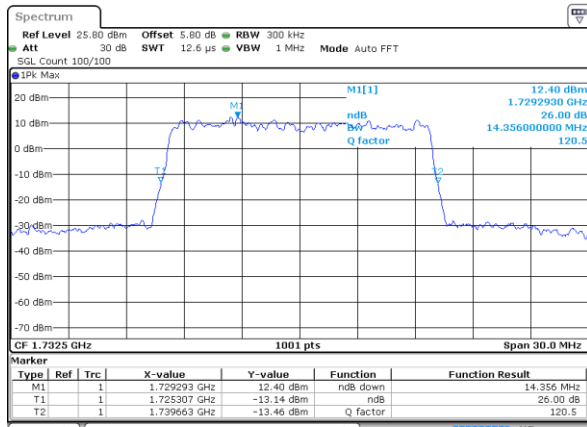
Date: 6 JUL 2019 22:39:59

Lowest Channel / 20MHz / 64QAM



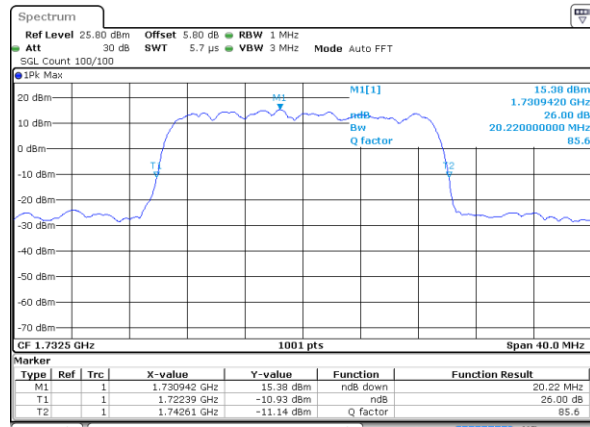
Date: 6 JUL 2019 22:48:14

Middle Channel / 15MHz / 64QAM



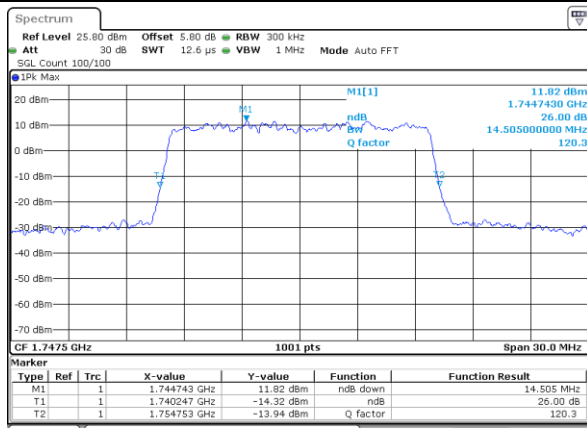
Date: 6 JUL 2019 22:43:29

Middle Channel / 20MHz / 64QAM



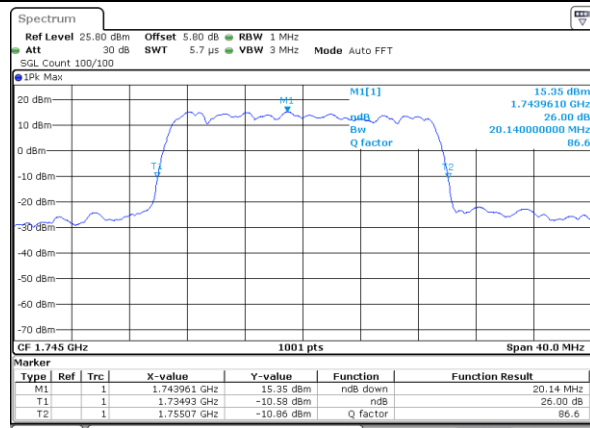
Date: 6 JUL 2019 22:51:44

Highest Channel / 15MHz / 64QAM



Date: 6 JUL 2019 22:44:44

Highest Channel / 20MHz / 64QAM

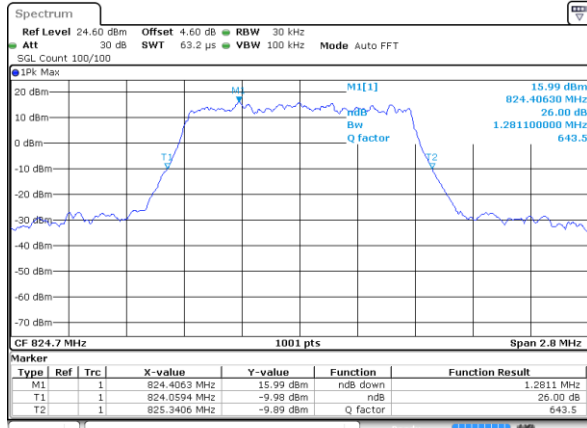


Date: 6 JUL 2019 22:52:59



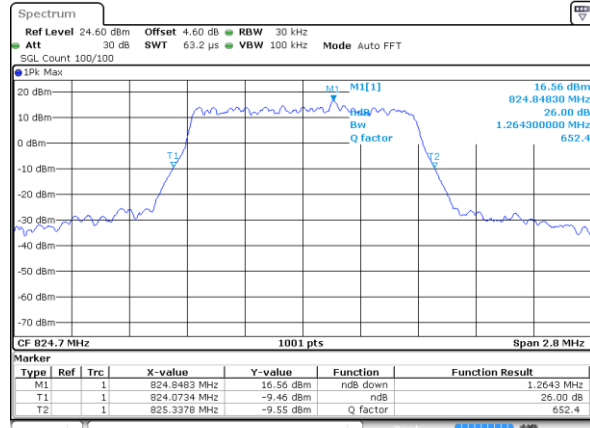
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



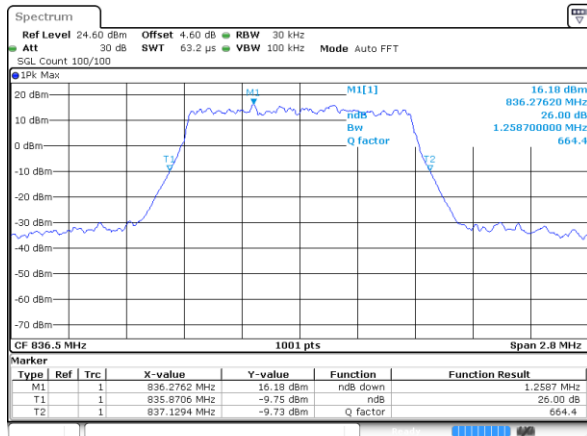
Date: 6 JUL 2019 14:42:24

Lowest Channel / 1.4MHz / 16QAM



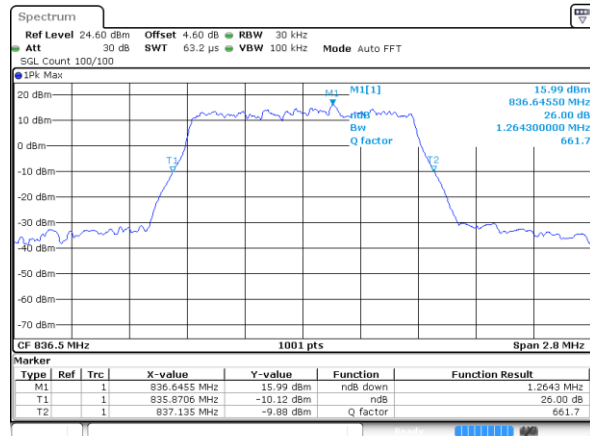
Date: 6 JUL 2019 14:42:14

Middle Channel / 1.4MHz / QPSK



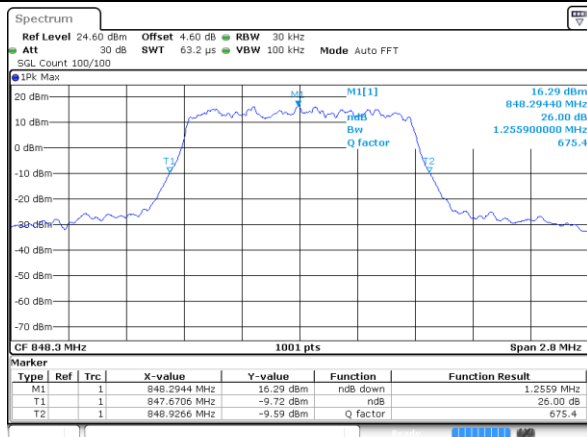
Date: 6 JUL 2019 14:51:18

Middle Channel / 1.4MHz / 16QAM



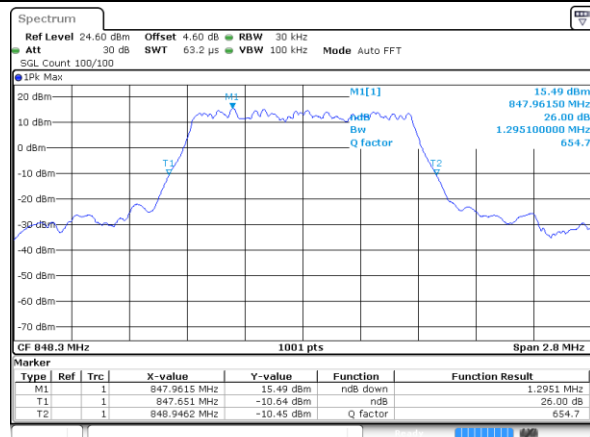
Date: 6 JUL 2019 14:51:28

Highest Channel / 1.4MHz / QPSK



Date: 6 JUL 2019 14:53:45

Highest Channel / 1.4MHz / 16QAM

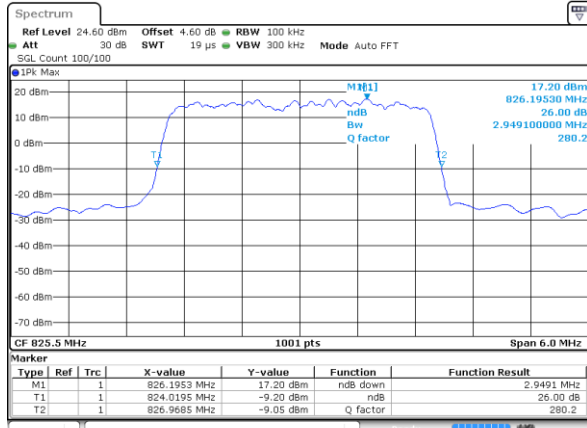


Date: 6 JUL 2019 14:53:55

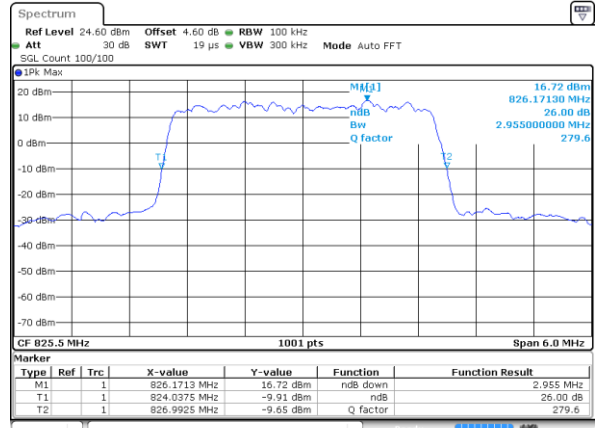


LTE Band 5

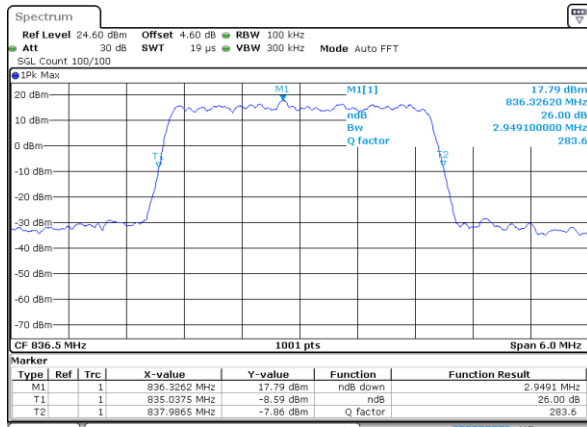
Lowest Channel / 3MHz / QPSK



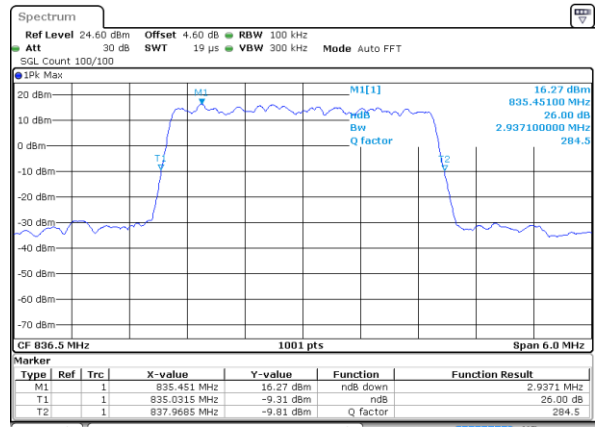
Lowest Channel / 3MHz / 16QAM



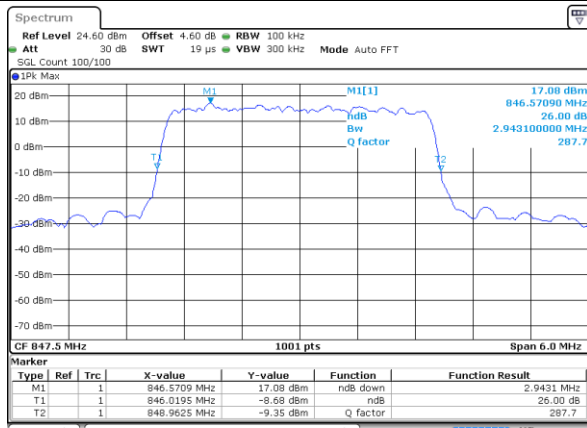
Middle Channel / 3MHz / QPSK



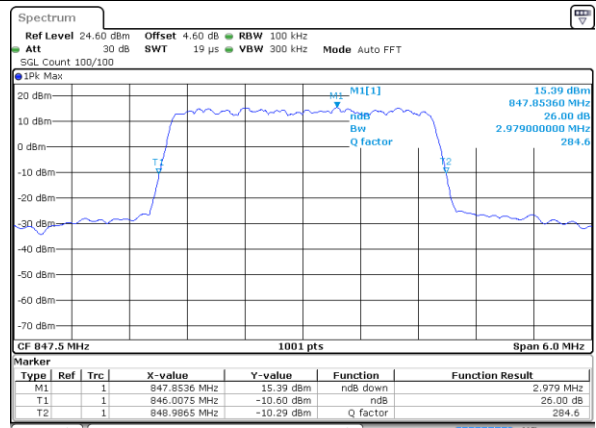
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



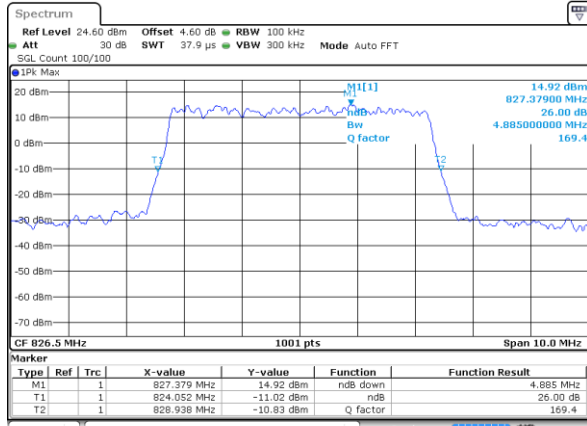
Highest Channel / 3MHz / 16QAM





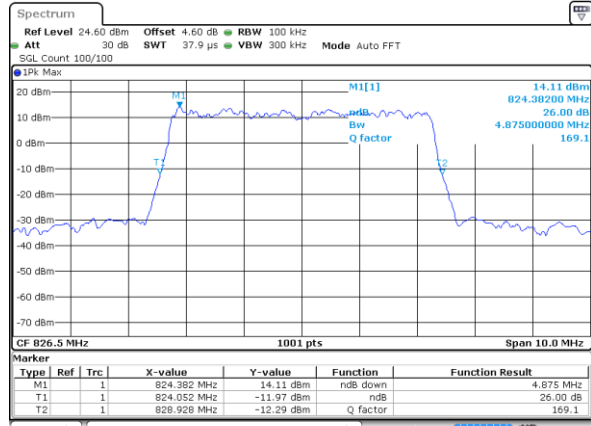
LTE Band 5

Lowest Channel / 5MHz / QPSK



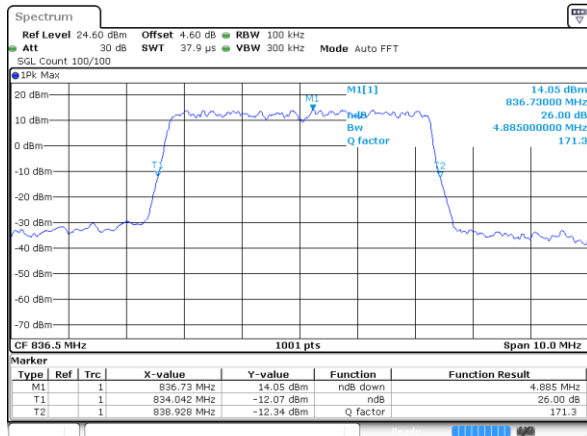
Date: 6 JUL 2019 15:52:15

Lowest Channel / 5MHz / 16QAM



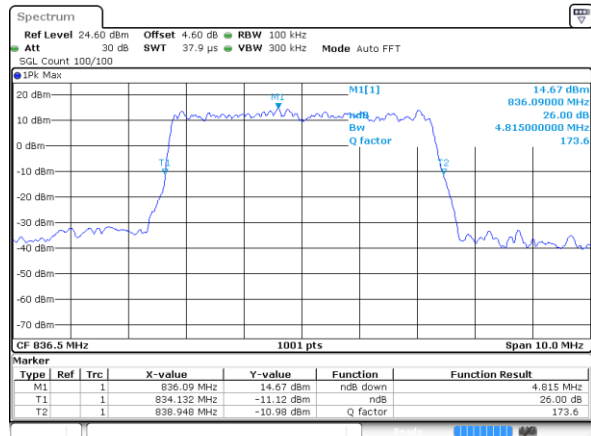
Date: 6 JUL 2019 15:52:25

Middle Channel / 5MHz / QPSK



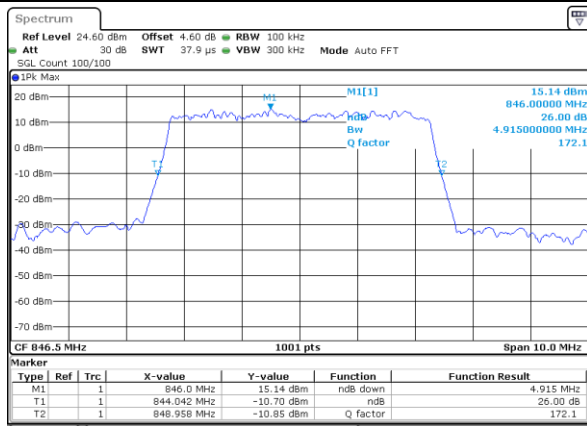
Date: 6 JUL 2019 16:01:17

Middle Channel / 5MHz / 16QAM



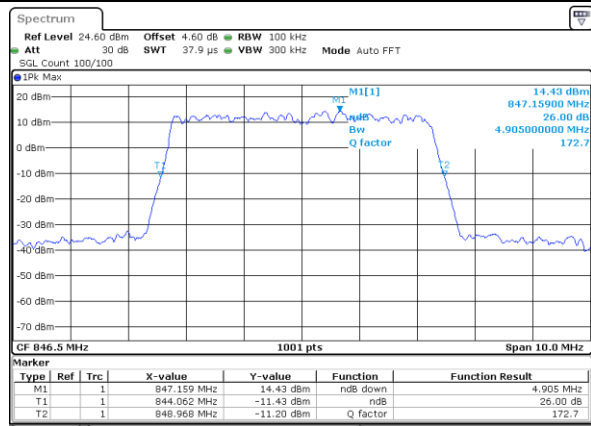
Date: 6 JUL 2019 16:01:28

Highest Channel / 5MHz / QPSK



Date: 6 JUL 2019 16:03:45

Highest Channel / 5MHz / 16QAM

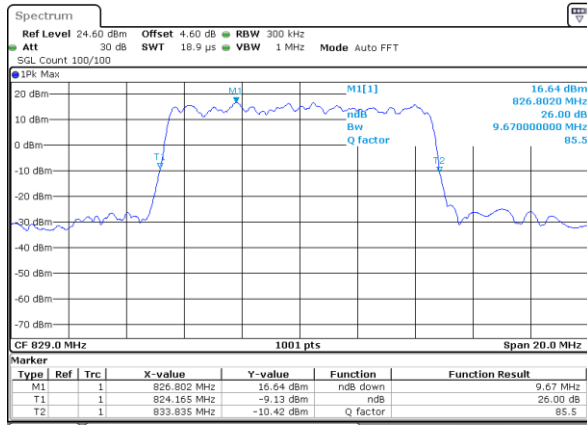


Date: 6 JUL 2019 16:03:55

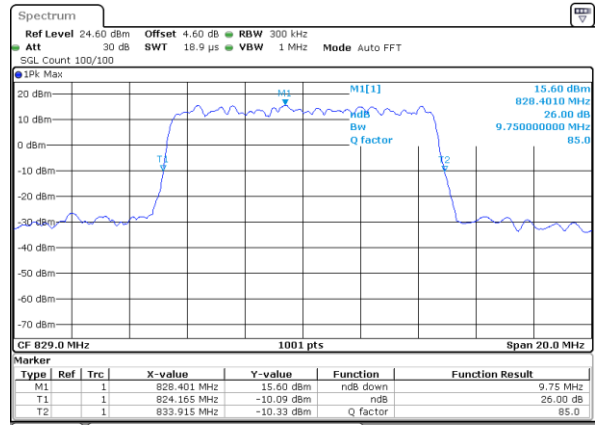


LTE Band 5

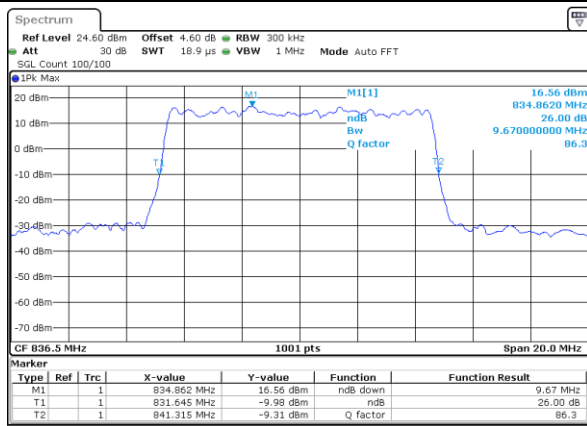
Lowest Channel / 10MHz / QPSK



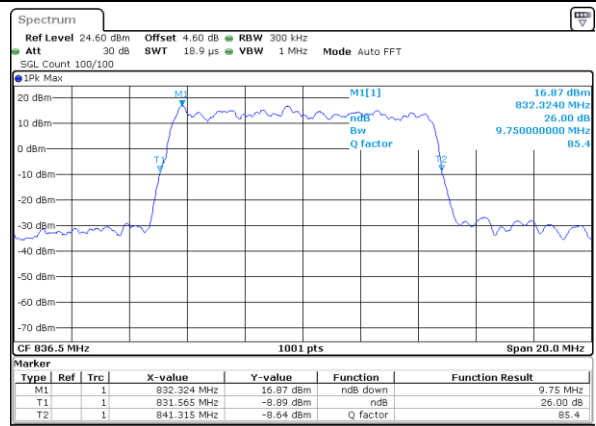
Lowest Channel / 10MHz / 16QAM



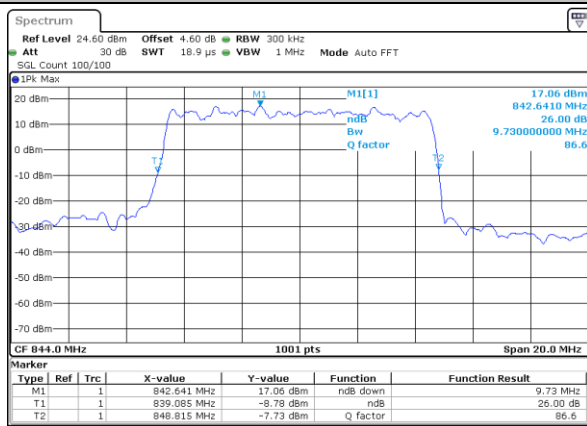
Middle Channel / 10MHz / QPSK



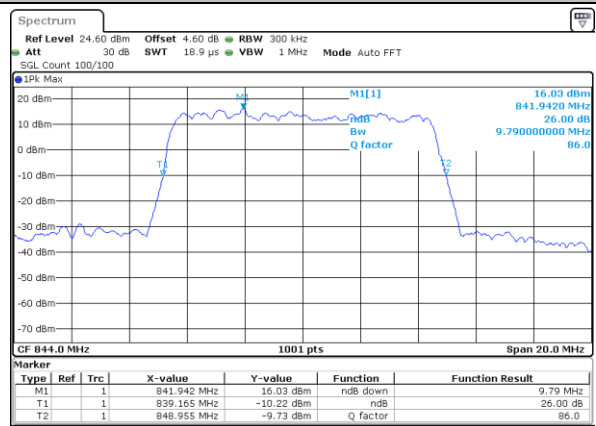
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



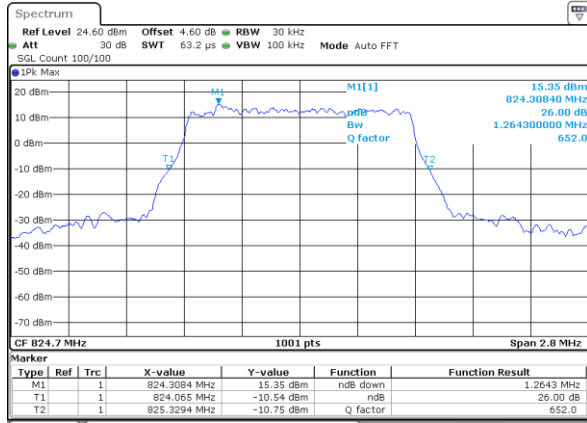
Highest Channel / 10MHz / 16QAM





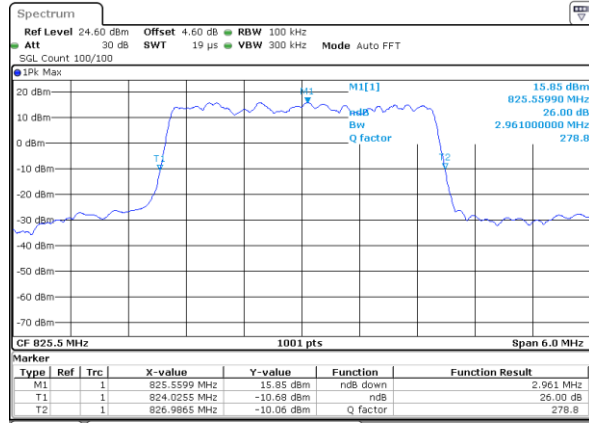
LTE Band 5

Lowest Channel / 1.4MHz / 64QAM



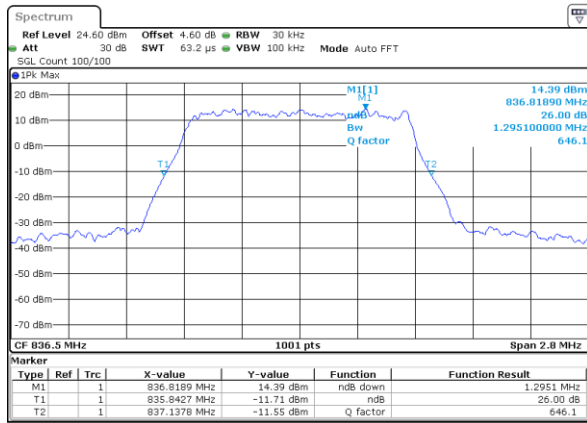
Date: 6 JUL 2019 16:44:58

Lowest Channel / 3MHz / 64QAM



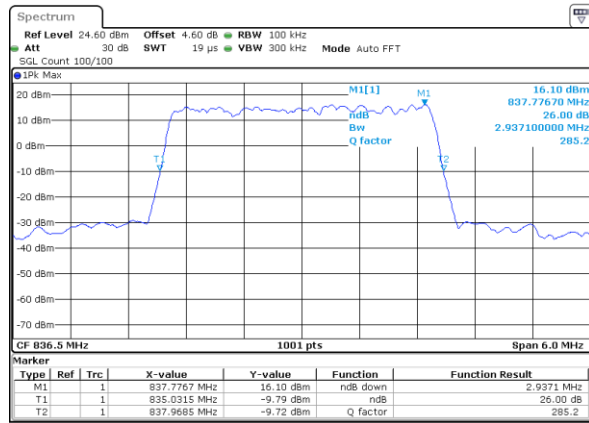
Date: 6 JUL 2019 16:55:15

Middle Channel / 1.4MHz / 64QAM



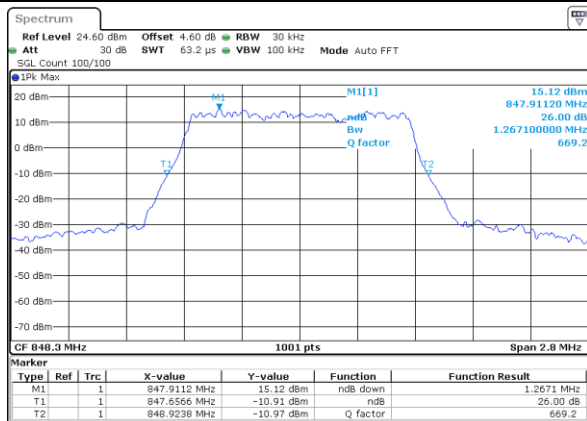
Date: 6 JUL 2019 16:50:24

Middle Channel / 3MHz / 64QAM



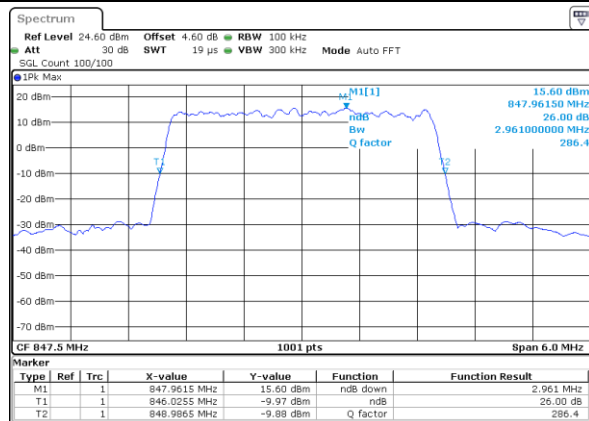
Date: 6 JUL 2019 17:00:40

Highest Channel / 1.4MHz / 64QAM



Date: 6 JUL 2019 16:50:44

Highest Channel / 3MHz / 64QAM

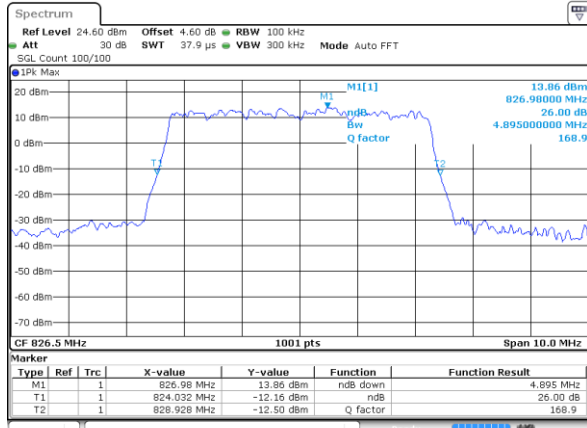


Date: 6 JUL 2019 17:01:00

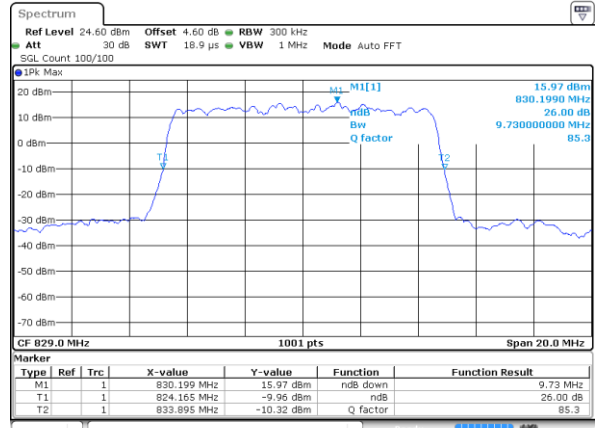


LTE Band 5

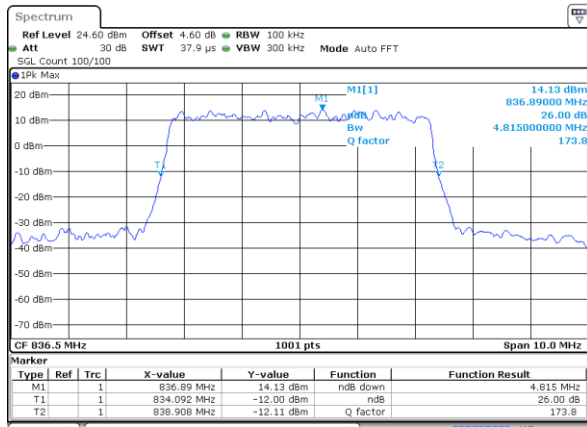
Lowest Channel / 5MHz / 64QAM



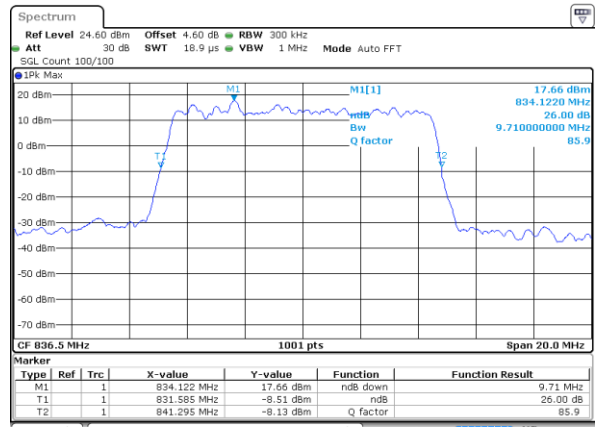
Lowest Channel / 10MHz / 64QAM



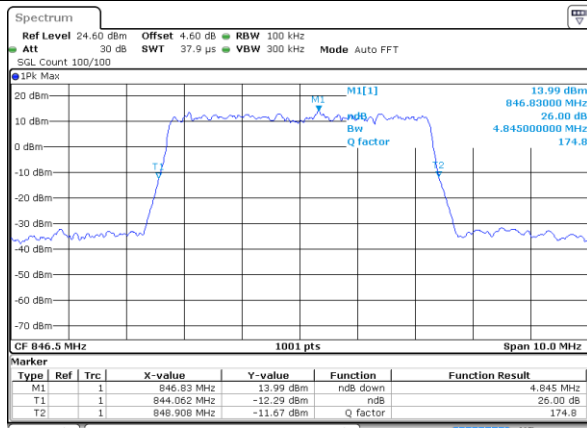
Middle Channel / 5MHz / 64QAM



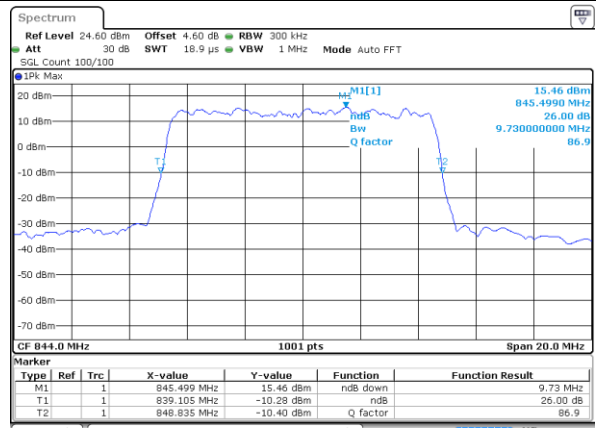
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



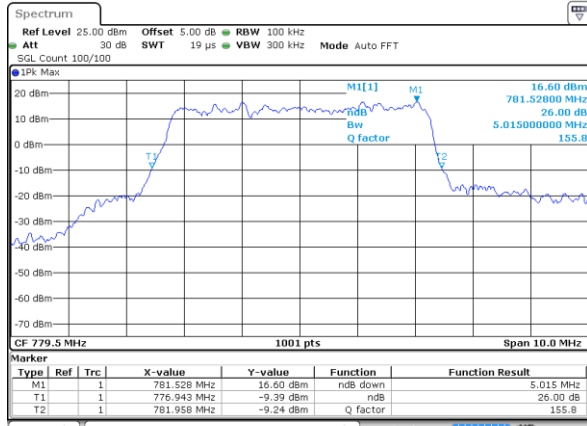
Highest Channel / 10MHz / 64QAM





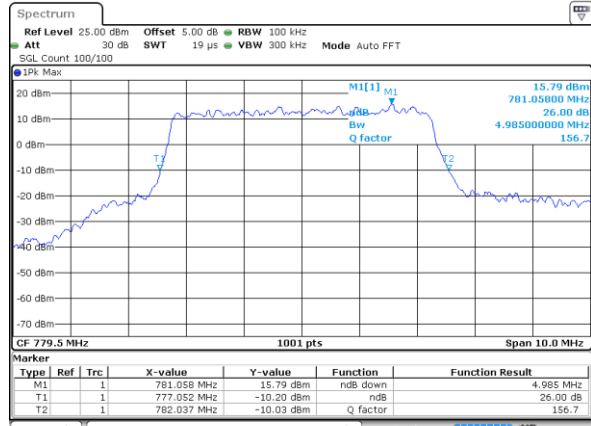
LTE Band 13

Lowest Channel / 5MHz / QPSK



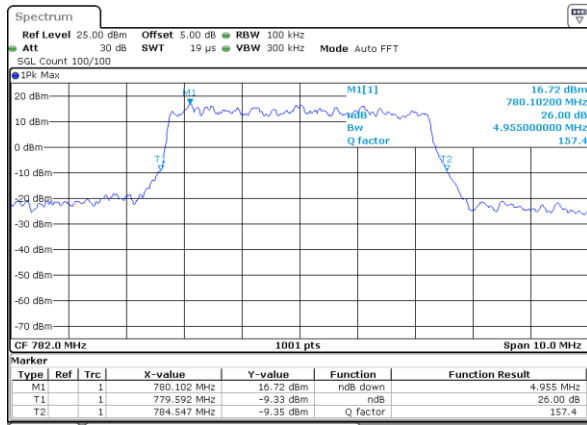
Date: 12 JUL 2019 04:41:59

Lowest Channel / 5MHz / 16QAM



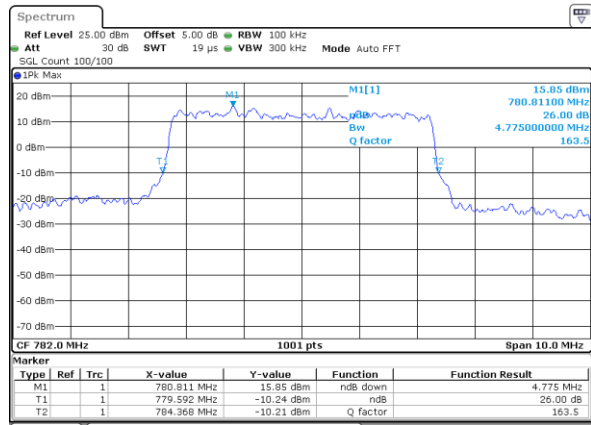
Date: 12 JUL 2019 04:42:09

Middle Channel / 5MHz / QPSK



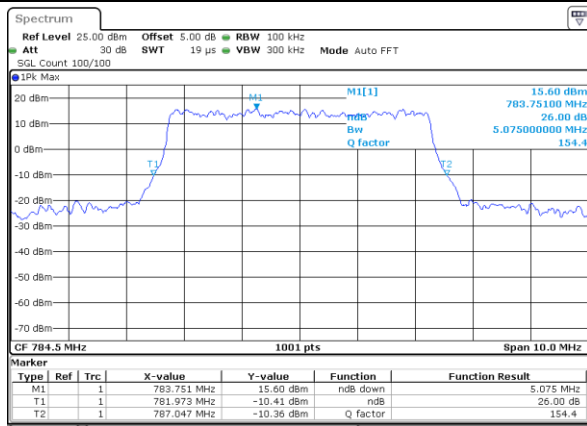
Date: 12 JUL 2019 04:50:59

Middle Channel / 5MHz / 16QAM



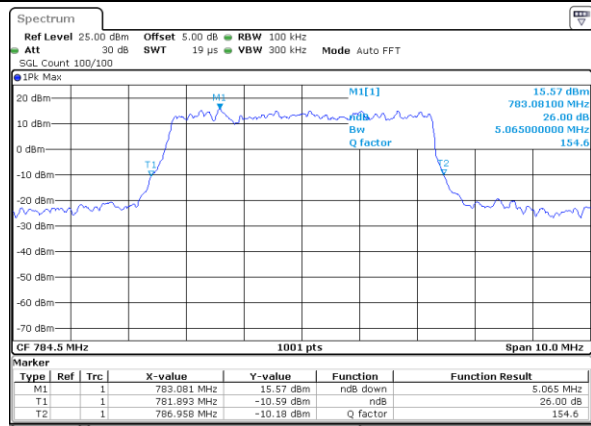
Date: 12 JUL 2019 04:51:09

Highest Channel / 5MHz / QPSK



Date: 12 JUL 2019 04:53:38

Highest Channel / 5MHz / 16QAM

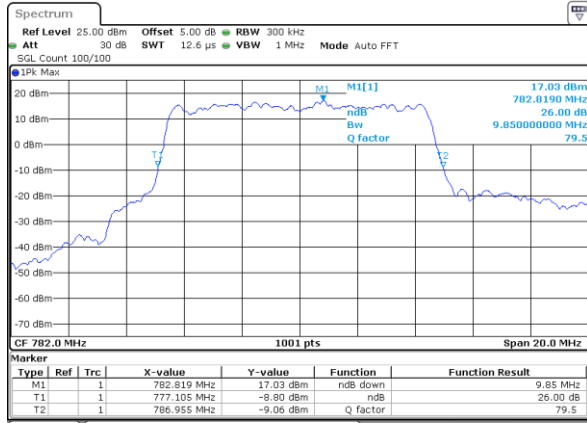


Date: 12 JUL 2019 04:53:28



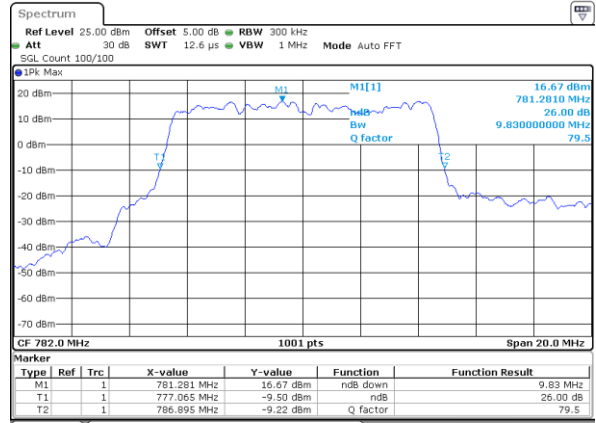
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 12 JUL 2019 05:04:26

Middle Channel / 10MHz / 16QAM

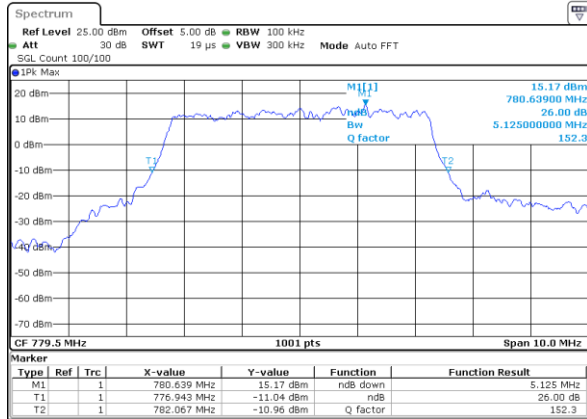


Date: 12 JUL 2019 05:04:16



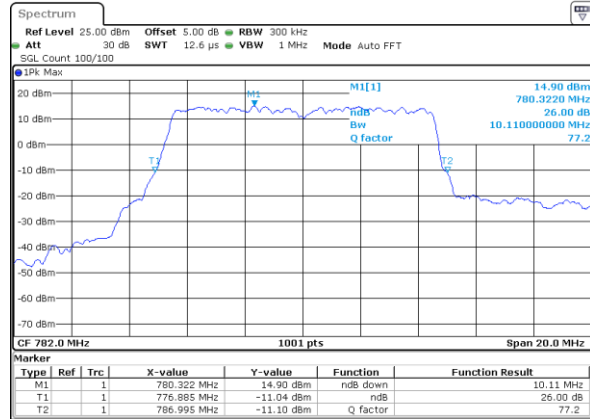
LTE Band 13

Lowest Channel / 5MHz / 64QAM



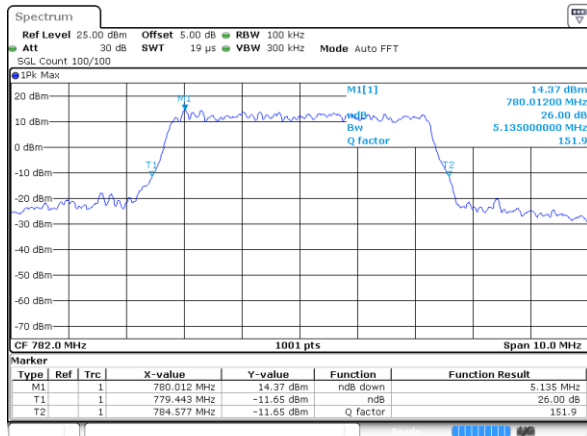
Date: 12 JUL 2019 05:17:16

Middle Channel / 10MHz / 64QAM



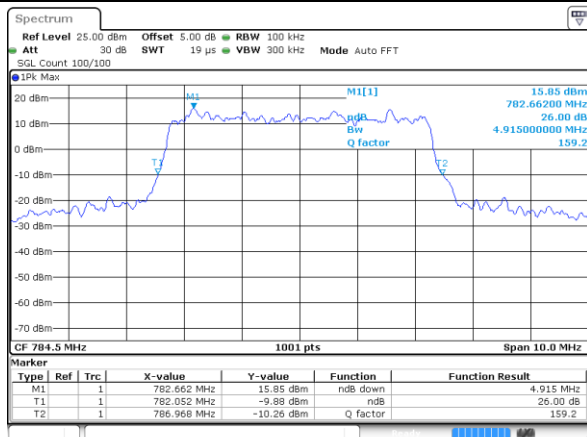
Date: 12 JUL 2019 05:27:09

Middle Channel / 5MHz / 64QAM



Date: 12 JUL 2019 05:17:26

Highest Channel / 5MHz / 64QAM



Date: 12 JUL 2019 05:17:36



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	1.08	2.70	2.69	4.5	4.48	9.05	8.97	13.46	13.43	18.34	18.34
Middle CH	1.09	1.09	2.70	2.71	4.51	4.48	9.09	9.03	13.4	13.49	18.5	18.42
Highest CH	1.1	1.09	2.69	2.71	4.49	4.49	9.05	9.03	13.46	13.46	18.26	18.26
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.1		2.71		4.5		9.05		13.49		18.46	
Middle CH	1.1		2.72		4.5		9.07		13.49		18.38	
Highest CH	1.09		2.71		4.5		9.05		13.43		18.38	

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	2.7	2.72	4.5	4.48	9.05	9.05	13.43	13.43	18.42	18.34
Middle CH	1.09	1.09	2.7	2.73	4.5	4.48	9.01	9.05	13.46	13.4	18.42	18.34
Highest CH	1.1	1.09	2.7	2.7	4.49	4.48	8.99	9.07	13.49	13.4	18.46	18.62
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.70		4.47		9.05		13.49		18.38	
Middle CH	1.09		2.72		4.47		9.03		13.46		18.34	
Highest CH	1.09		2.72		4.51		9.03		13.43		18.46	

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	2.72	2.7	4.48	4.49	9.01	9.01
Middle CH	1.09	1.1	2.71	2.7	4.48	4.48	9.05	9.05
Highest CH	1.09	1.09	2.71	2.68	4.5	4.49	9.07	9.03
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.71		4.49		9.03	
Middle CH	1.09		2.71		4.48		9.05	
Highest CH	1.09		2.72		4.47		8.97	

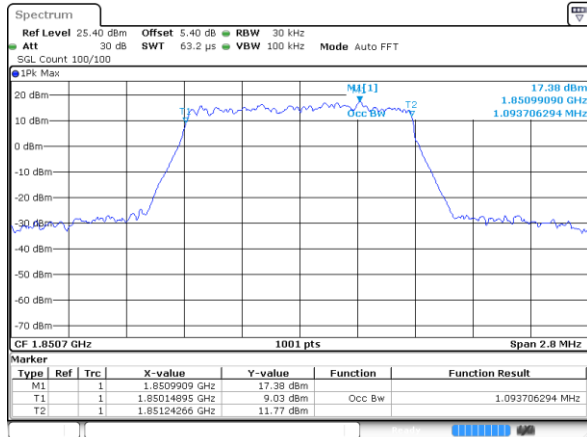


Mode	LTE Band 13 : 99%OBW(MHz)			
BW	5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.52	4.48	-	-
Middle CH	4.51	4.5	9.03	9.01
Highest CH	4.5	4.51	-	-
BW	5MHz		10MHz	
Mod.	64QAM		64QAM	
Lowest CH	4.48			
Middle CH	4.49		9.03	
Highest CH	4.52			

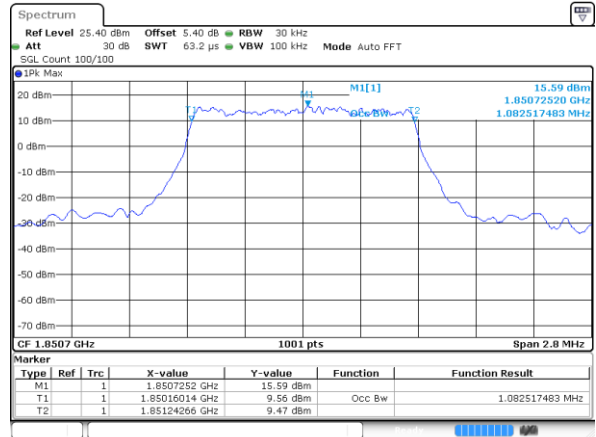


LTE Band 2

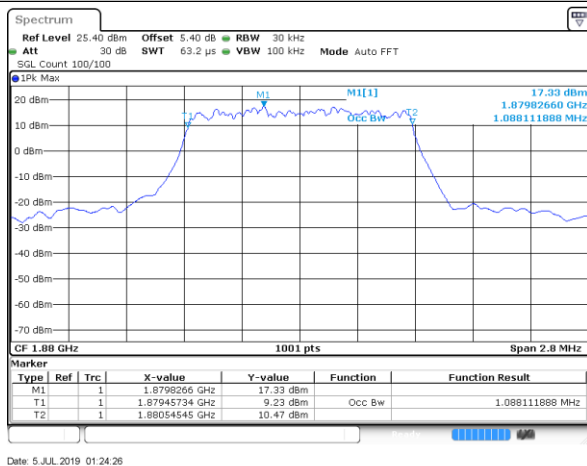
Lowest Channel / 1.4MHz / QPSK



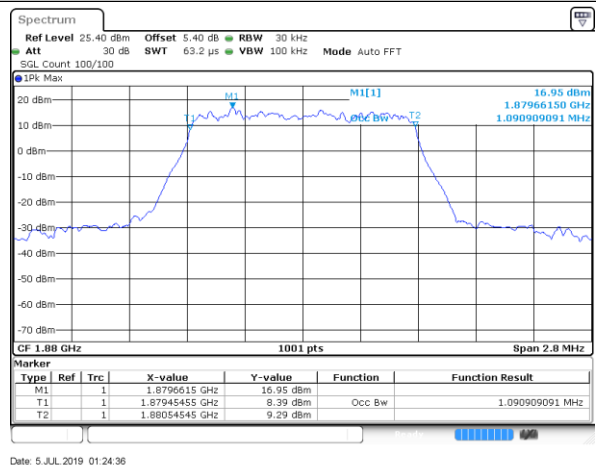
Lowest Channel / 1.4MHz / 16QAM



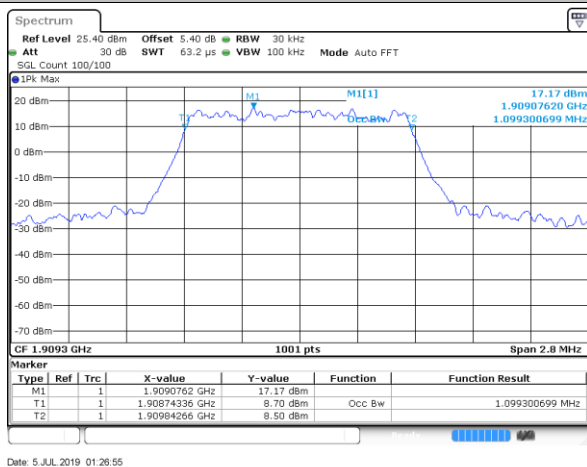
Middle Channel / 1.4MHz / QPSK



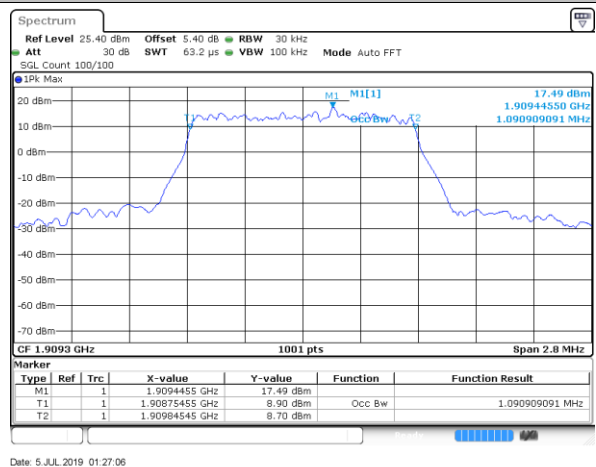
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



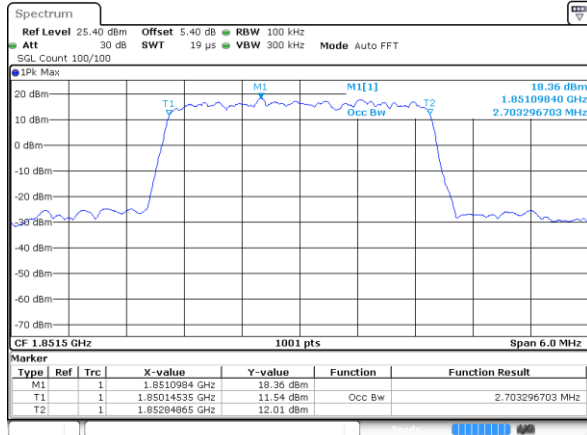
Highest Channel / 1.4MHz / 16QAM





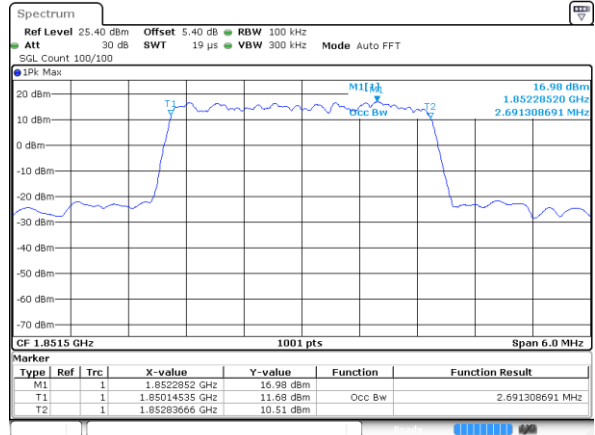
LTE Band 2

Lowest Channel / 3MHz / QPSK



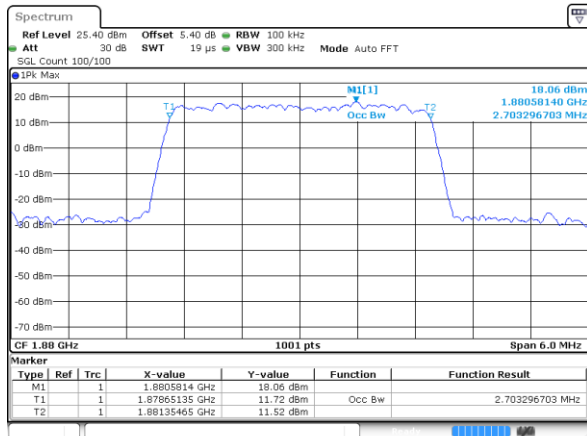
Date: 5 JUL 2019 01:33:55

Lowest Channel / 3MHz / 16QAM



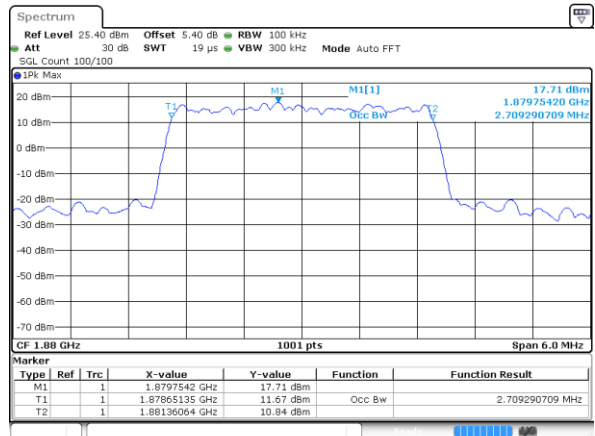
Date: 5 JUL 2019 01:34:05

Middle Channel / 3MHz / QPSK



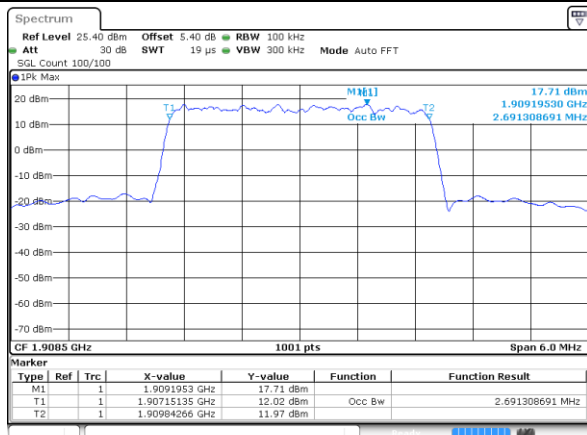
Date: 5 JUL 2019 01:40:56

Middle Channel / 3MHz / 16QAM



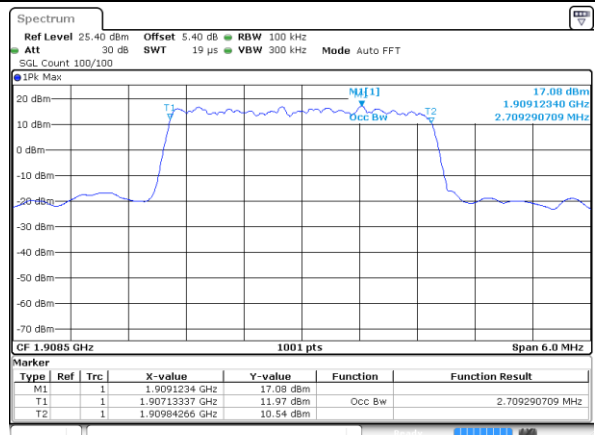
Date: 5 JUL 2019 01:41:06

Highest Channel / 3MHz / QPSK



Date: 5 JUL 2019 01:43:26

Highest Channel / 3MHz / 16QAM

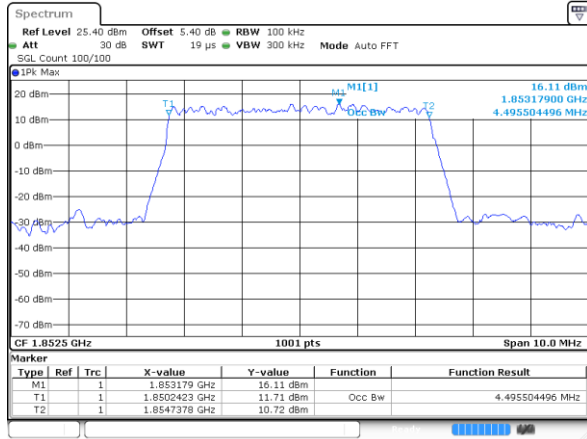


Date: 5 JUL 2019 01:43:36



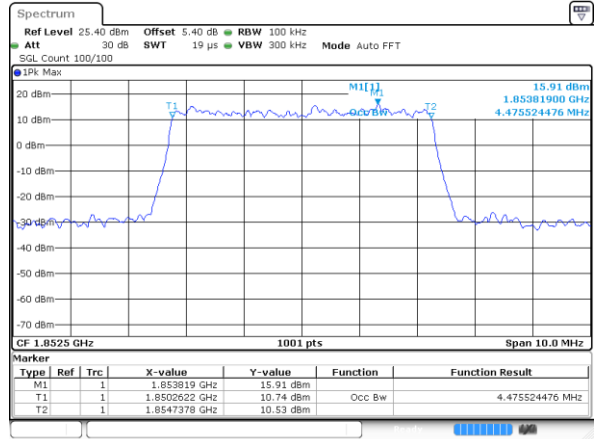
LTE Band 2

Lowest Channel / 5MHz / QPSK



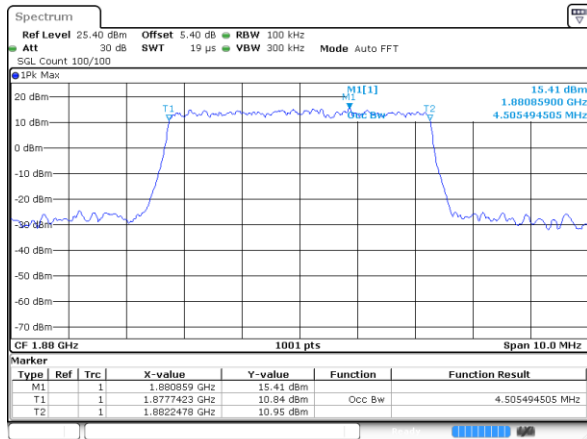
Date: 5 JUL 2019 01:50:26

Lowest Channel / 5MHz / 16QAM



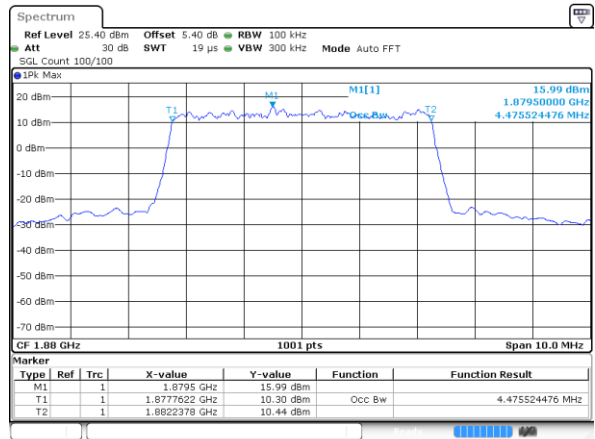
Date: 5 JUL 2019 01:50:36

Middle Channel / 5MHz / QPSK



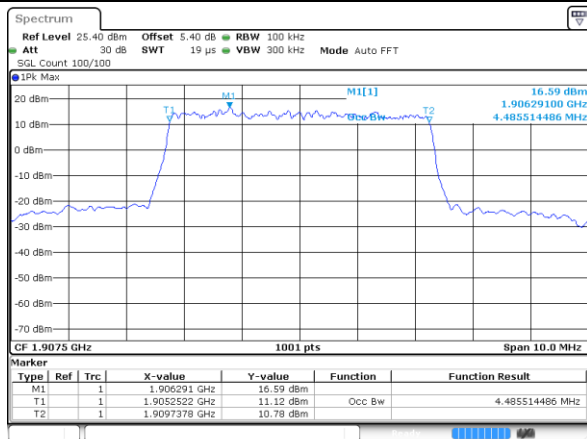
Date: 5 JUL 2019 01:57:26

Middle Channel / 5MHz / 16QAM



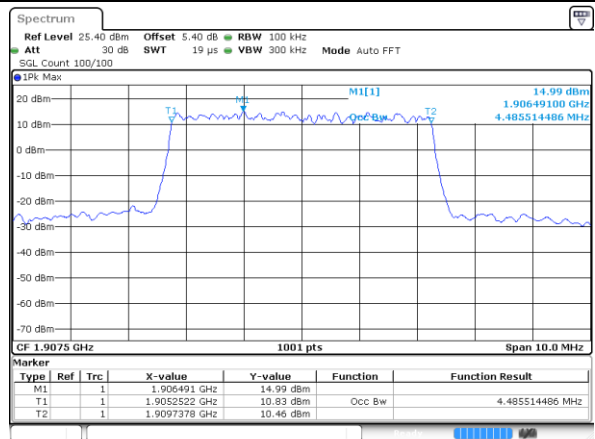
Date: 5 JUL 2019 01:57:36

Highest Channel / 5MHz / QPSK



Date: 5 JUL 2019 01:59:56

Highest Channel / 5MHz / 16QAM

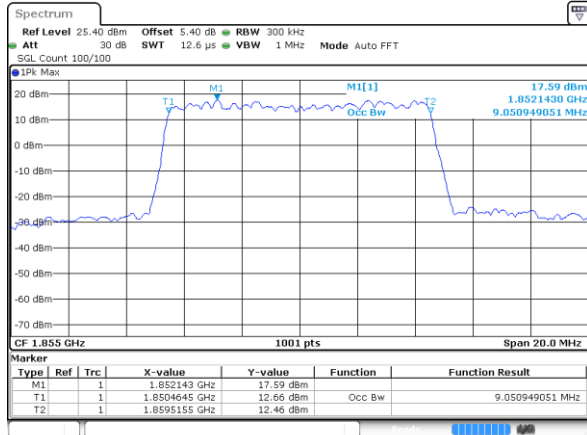


Date: 5 JUL 2019 02:00:06



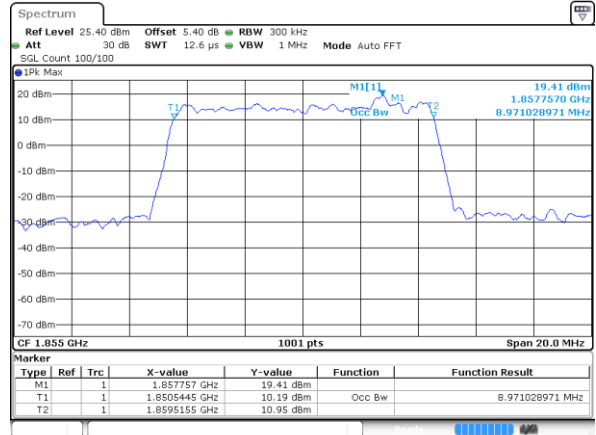
LTE Band 2

Lowest Channel / 10MHz / QPSK



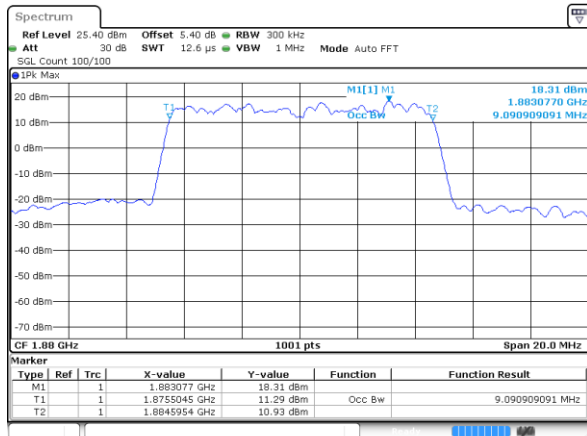
Date: 5 JUL 2019 02:06:56

Lowest Channel / 10MHz / 16QAM



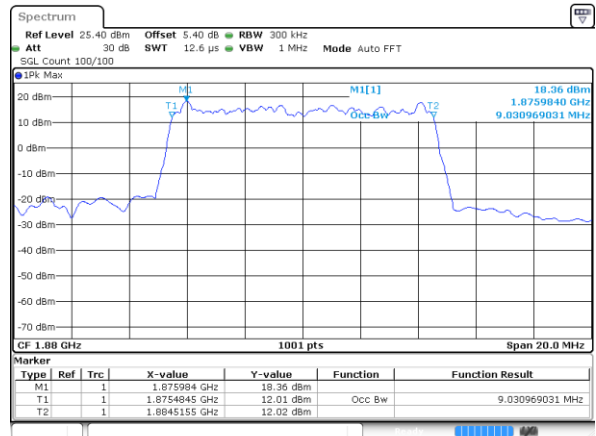
Date: 5 JUL 2019 02:07:06

Middle Channel / 10MHz / QPSK



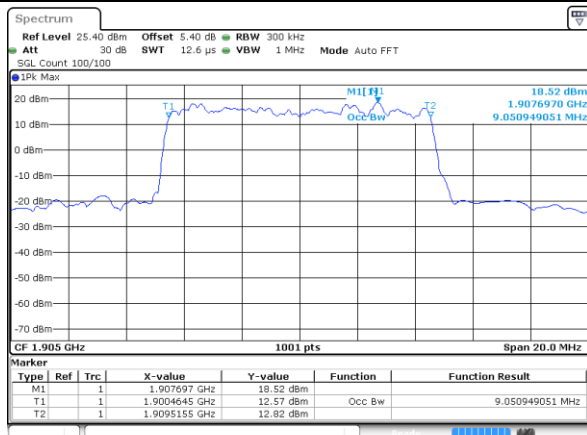
Date: 5 JUL 2019 02:13:56

Middle Channel / 10MHz / 16QAM



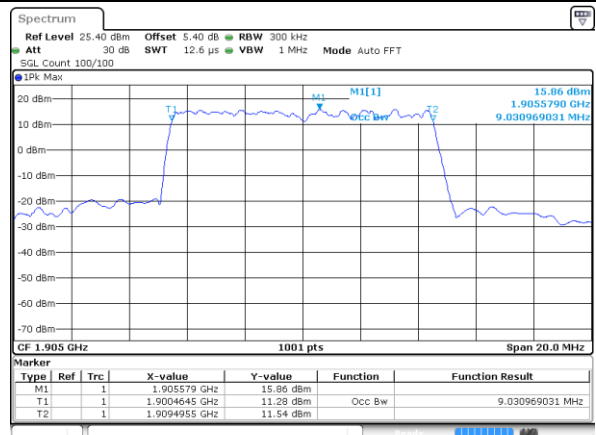
Date: 5 JUL 2019 02:14:06

Highest Channel / 10MHz / QPSK



Date: 5 JUL 2019 02:16:26

Highest Channel / 10MHz / 16QAM



Date: 5 JUL 2019 02:16:36