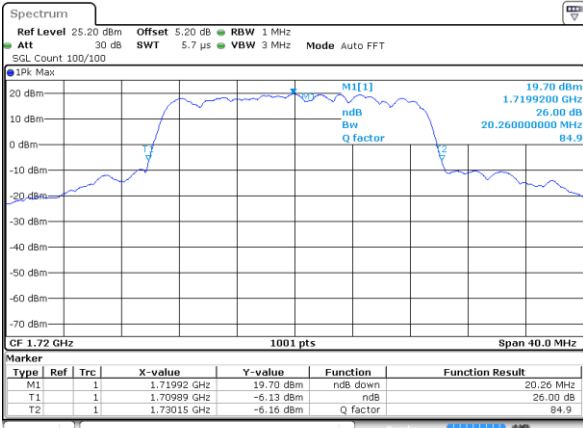




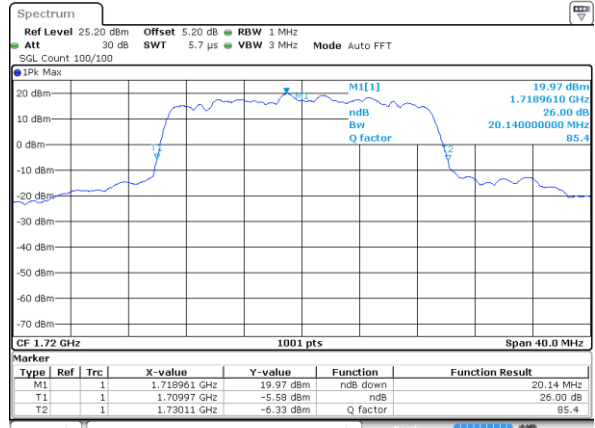
LTE Band 4

Lowest Channel / 20MHz / QPSK



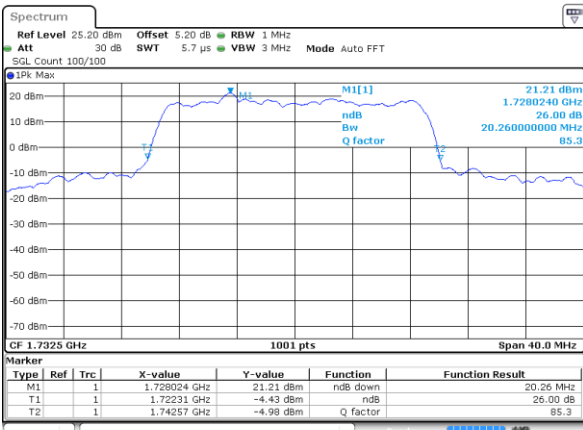
Date: 27 APR 2019 13:04:08

Lowest Channel / 20MHz / 16QAM



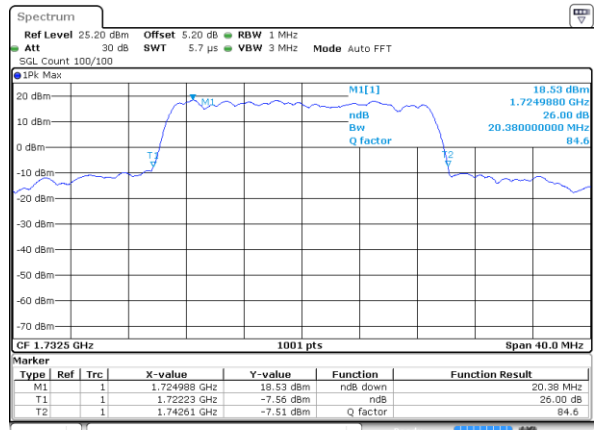
Date: 27 APR 2019 13:04:18

Middle Channel / 20MHz / QPSK



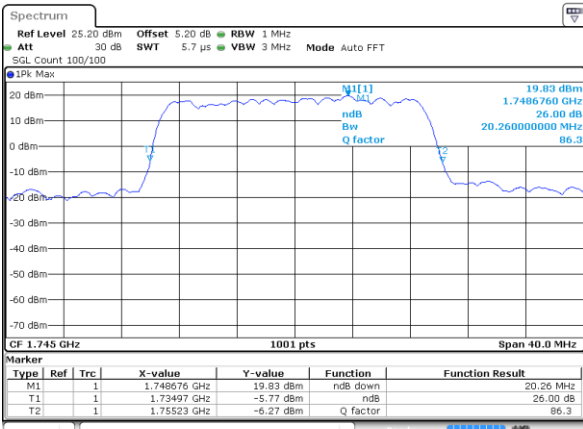
Date: 27 APR 2019 13:11:04

Middle Channel / 20MHz / 16QAM



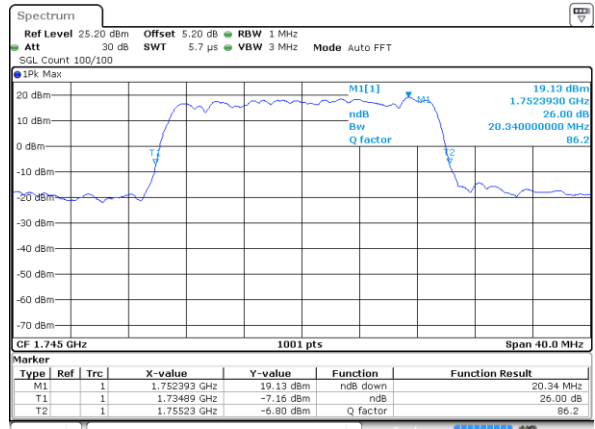
Date: 27 APR 2019 13:11:14

Highest Channel / 20MHz / QPSK



Date: 27 APR 2019 13:13:31

Highest Channel / 20MHz / 16QAM

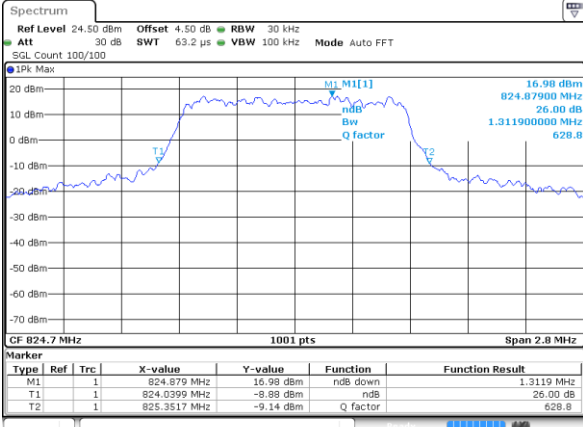


Date: 27 APR 2019 13:13:41



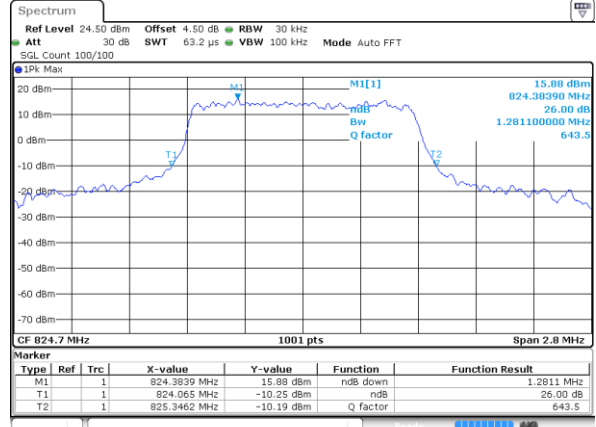
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



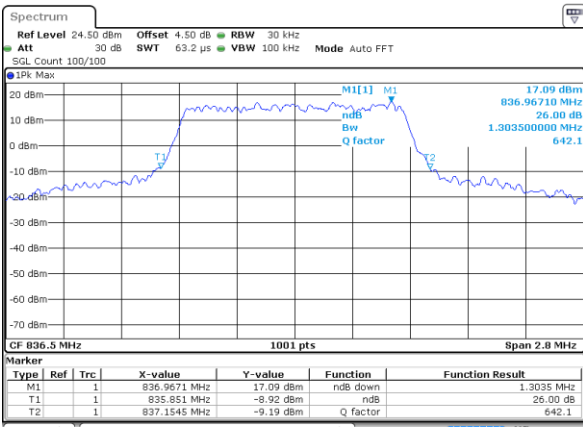
Date: 27 APR 2019 15:31:58

Lowest Channel / 1.4MHz / 16QAM



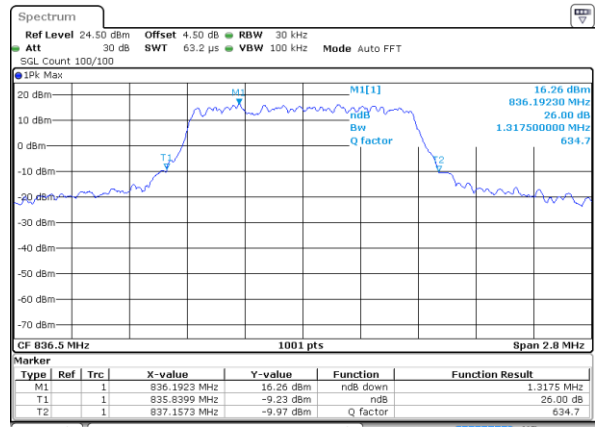
Date: 27 APR 2019 15:30:14

Middle Channel / 1.4MHz / QPSK



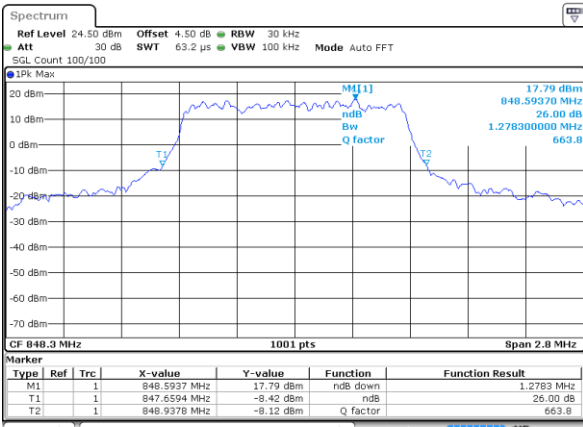
Date: 27 APR 2019 14:13:34

Middle Channel / 1.4MHz / 16QAM



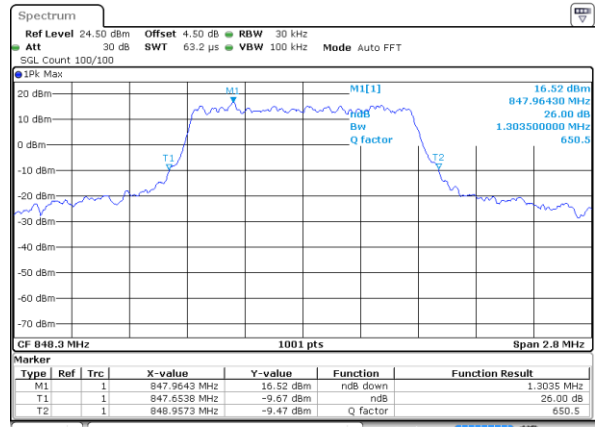
Date: 27 APR 2019 14:13:45

Highest Channel / 1.4MHz / QPSK



Date: 27 APR 2019 14:16:02

Highest Channel / 1.4MHz / 16QAM

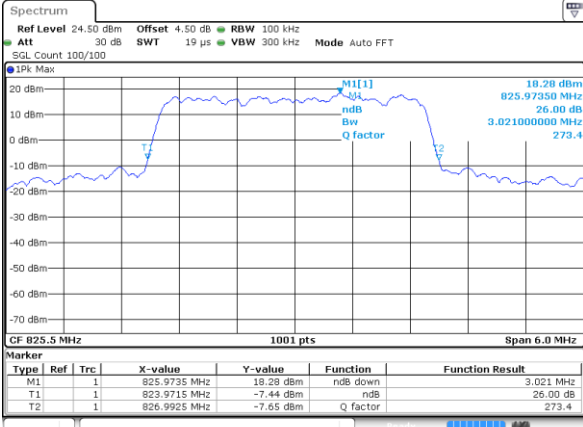


Date: 27 APR 2019 14:16:12



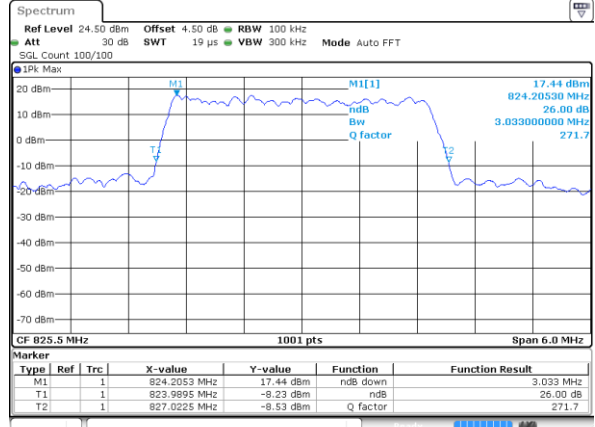
LTE Band 5

Lowest Channel / 3MHz / QPSK



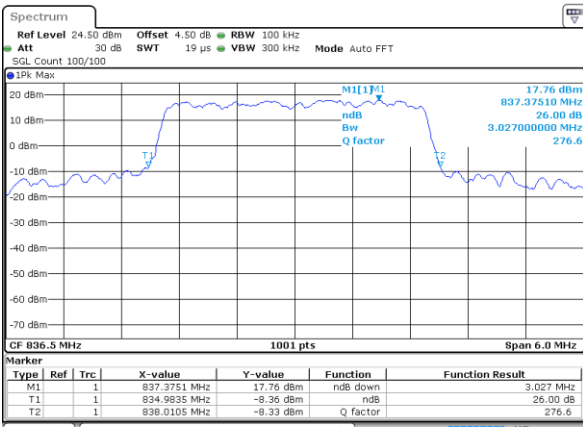
Date: 27 APR 2019 14:59:20

Lowest Channel / 3MHz / 16QAM



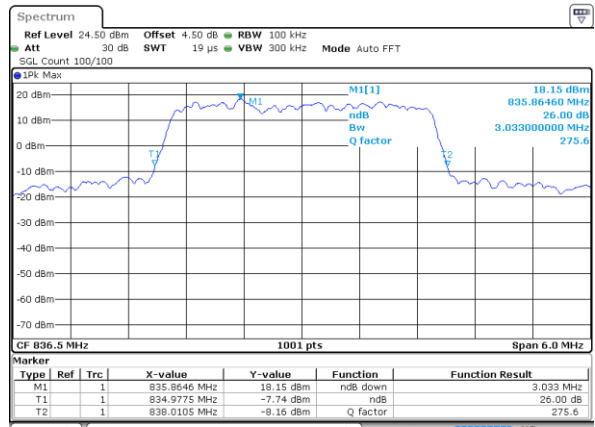
Date: 27 APR 2019 14:59:30

Middle Channel / 3MHz / QPSK



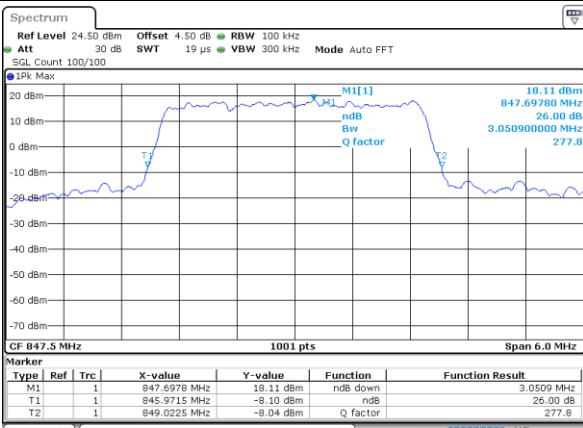
Date: 27 APR 2019 15:08:16

Middle Channel / 3MHz / 16QAM



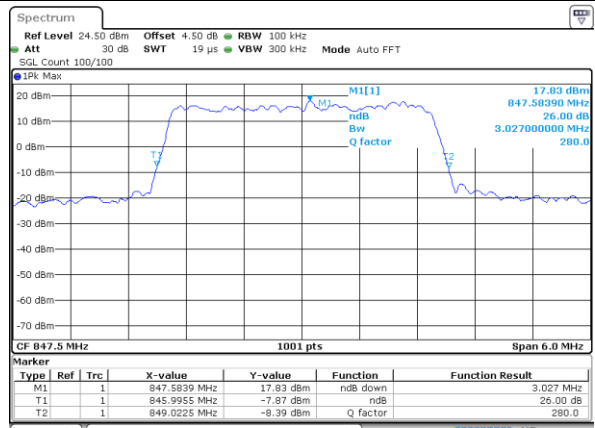
Date: 27 APR 2019 15:08:26

Highest Channel / 3MHz / QPSK



Date: 27 APR 2019 15:10:43

Highest Channel / 3MHz / 16QAM

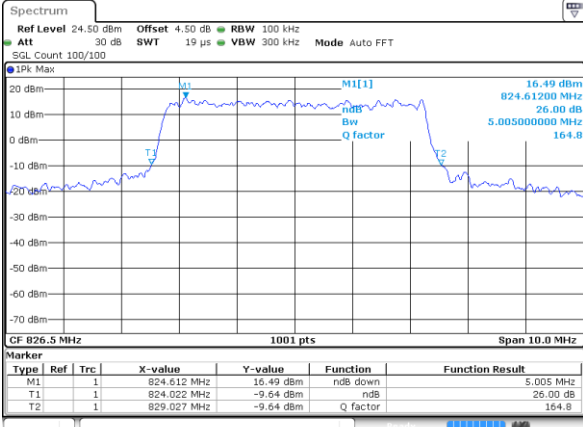


Date: 27 APR 2019 15:10:53



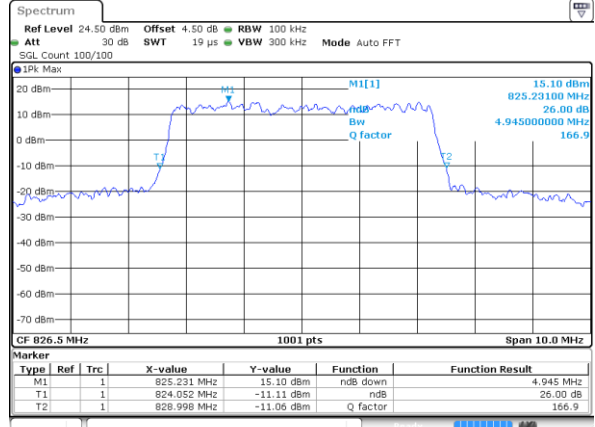
LTE Band 5

Lowest Channel / 5MHz / QPSK



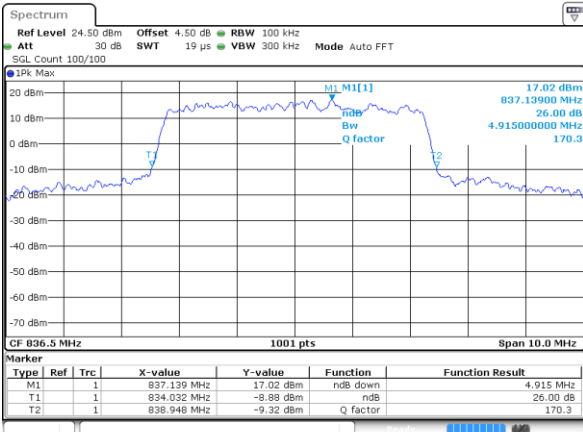
Date: 27 APR 2019 15:24:09

Lowest Channel / 5MHz / 16QAM



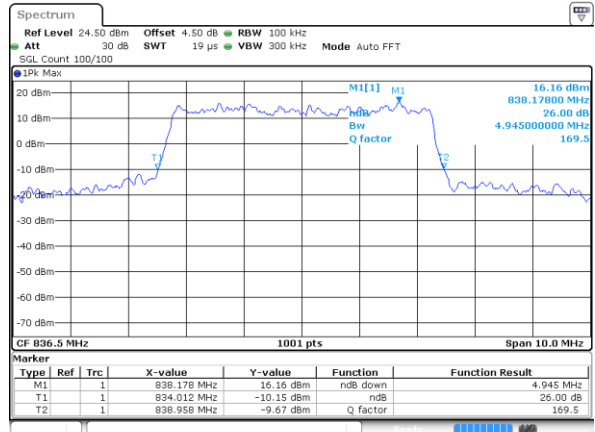
Date: 27 APR 2019 15:23:03

Middle Channel / 5MHz / QPSK



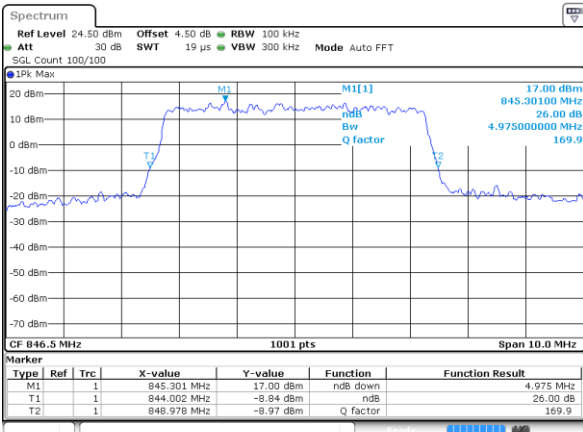
Date: 27 APR 2019 14:25:50

Middle Channel / 5MHz / 16QAM



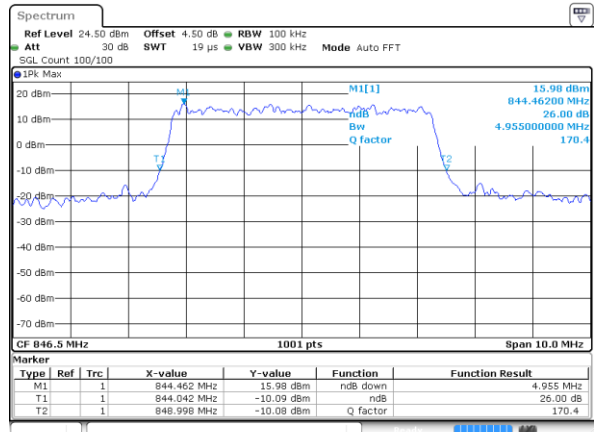
Date: 27 APR 2019 14:26:00

Highest Channel / 5MHz / QPSK



Date: 27 APR 2019 14:28:17

Highest Channel / 5MHz / 16QAM

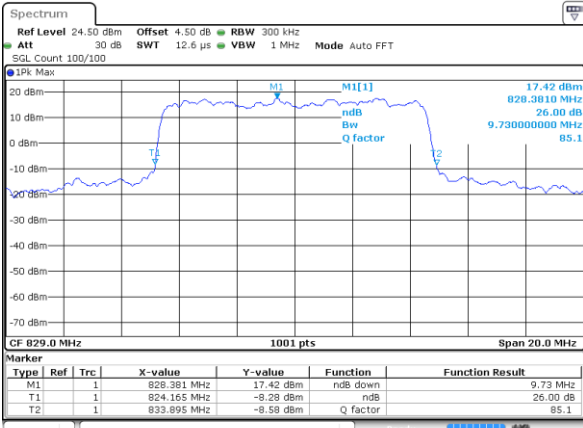


Date: 27 APR 2019 14:28:27



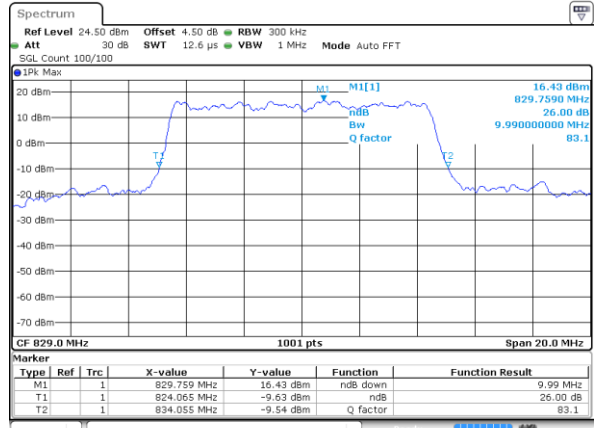
LTE Band 5

Lowest Channel / 10MHz / QPSK



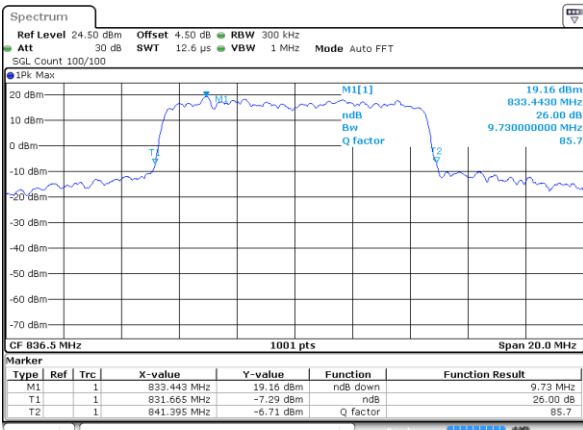
Date: 27 APR 2019 14:37:12

Lowest Channel / 10MHz / 16QAM



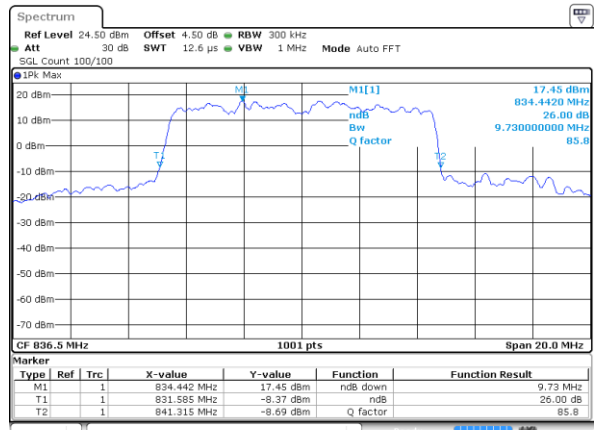
Date: 27 APR 2019 14:37:22

Middle Channel / 10MHz / QPSK



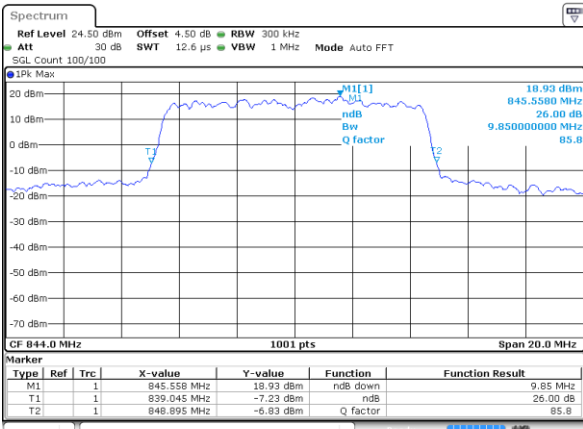
Date: 27 APR 2019 14:46:07

Middle Channel / 10MHz / 16QAM



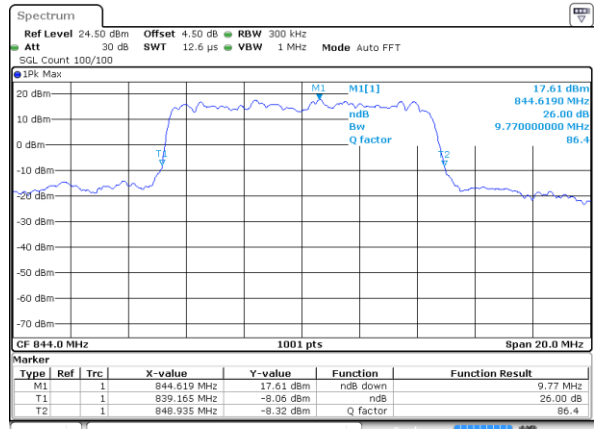
Date: 27 APR 2019 14:46:17

Highest Channel / 10MHz / QPSK



Date: 27 APR 2019 14:48:34

Highest Channel / 10MHz / 16QAM

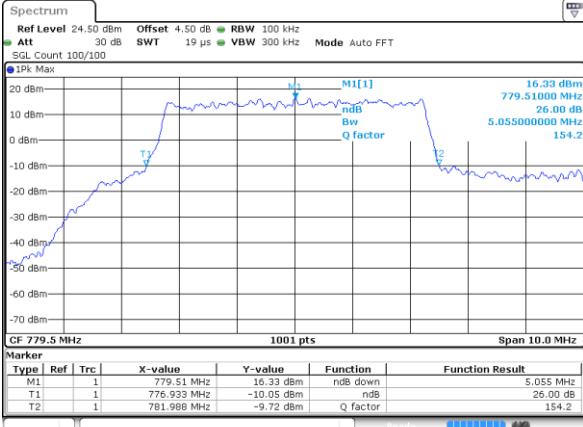


Date: 27 APR 2019 14:48:44



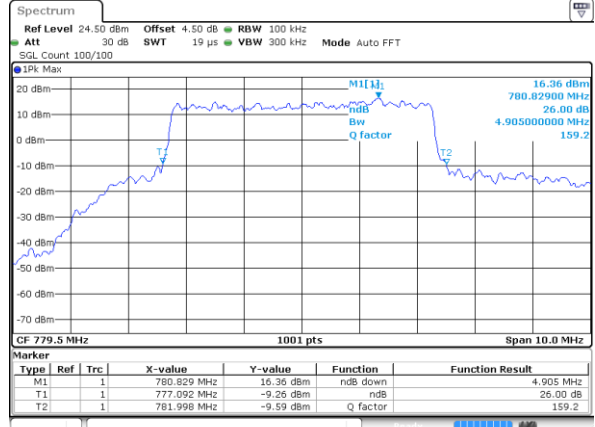
LTE Band 13

Lowest Channel / 5MHz / QPSK



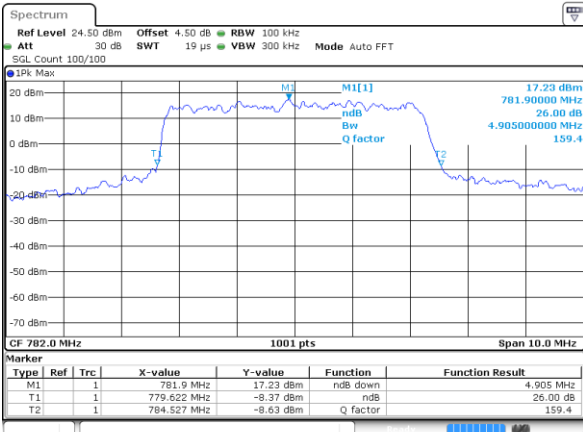
Date: 27 APR 2019 15:34:38

Lowest Channel / 5MHz / 16QAM



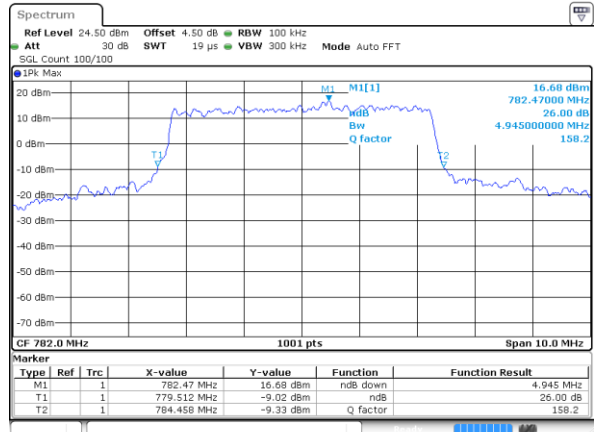
Date: 27 APR 2019 15:34:48

Middle Channel / 5MHz / QPSK



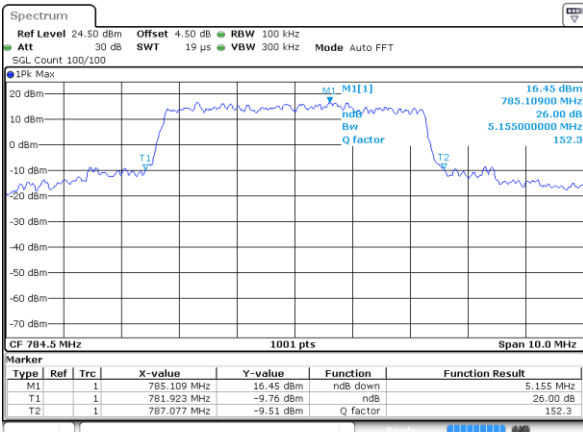
Date: 27 APR 2019 15:43:33

Middle Channel / 5MHz / 16QAM



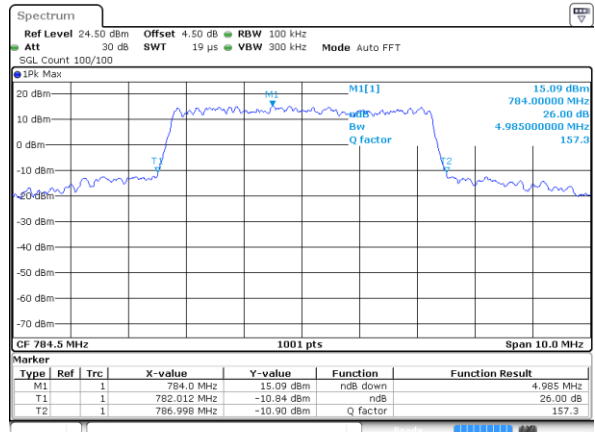
Date: 27 APR 2019 15:43:43

Highest Channel / 5MHz / QPSK



Date: 27 APR 2019 15:46:09

Highest Channel / 5MHz / 16QAM

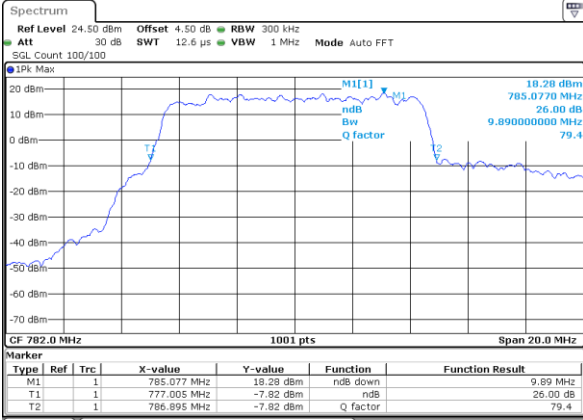


Date: 27 APR 2019 15:45:59



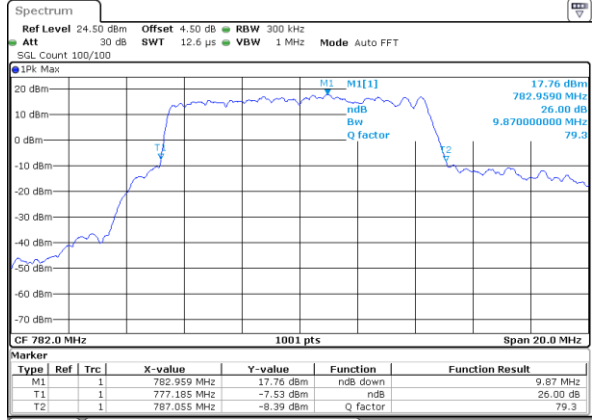
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 27 APR 2019 15:56:51

Middle Channel / 10MHz / 16QAM



Date: 27 APR 2019 15:56:41



## Occupied Bandwidth

Mode	LTE Band 2 : 99%OBW(MHz)											
	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	2.72	2.72	4.50	4.51	9.05	8.99	13.58	13.46	18.38	18.30
Middle CH	1.09	1.10	2.73	2.71	4.48	4.50	8.97	9.01	13.46	13.46	18.54	18.46
Highest CH	1.10	1.09	2.73	2.72	4.50	4.51	9.07	9.07	13.49	13.49	18.42	18.30

Mode	LTE Band 4 : 99%OBW(MHz)											
	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	2.72	2.71	4.50	4.48	8.95	9.05	13.40	13.34	18.18	18.34
Middle CH	1.10	1.11	2.76	2.73	4.50	4.52	9.01	9.03	13.43	13.43	18.50	18.66
Highest CH	1.09	1.09	2.72	2.73	4.50	4.48	8.97	8.95	13.34	13.46	18.38	18.22

Mode	LTE Band 5 : 99%OBW(MHz)							
	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.10	1.09	2.72	2.71	4.48	4.48	8.99	9.01
Middle CH	1.10	1.10	2.71	2.73	4.51	4.49	9.01	8.99
Highest CH	1.09	1.10	2.71	2.72	4.49	4.49	9.01	8.99

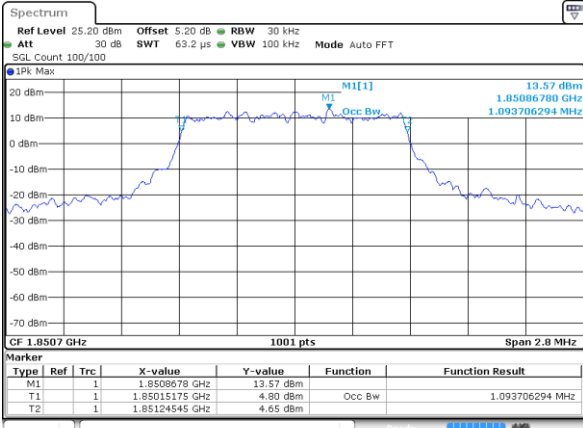
Mode	LTE Band 13 : 99%OBW(MHz)			
	5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.49	4.51	-	-
Middle CH	4.49	4.48	9.03	9.03
Highest CH	4.53	4.51	-	-





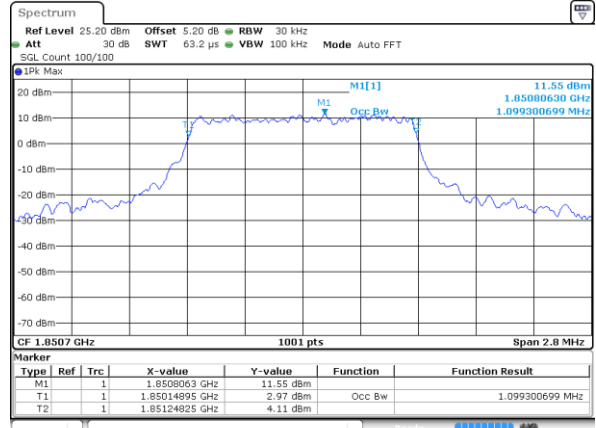
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



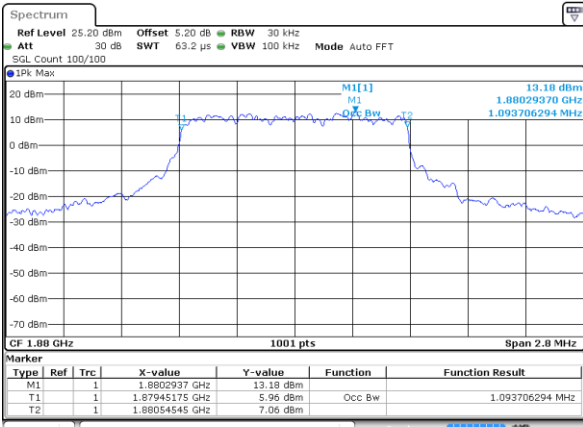
Date: 27 APR 2019 08:39:47

Lowest Channel / 1.4MHz / 16QAM



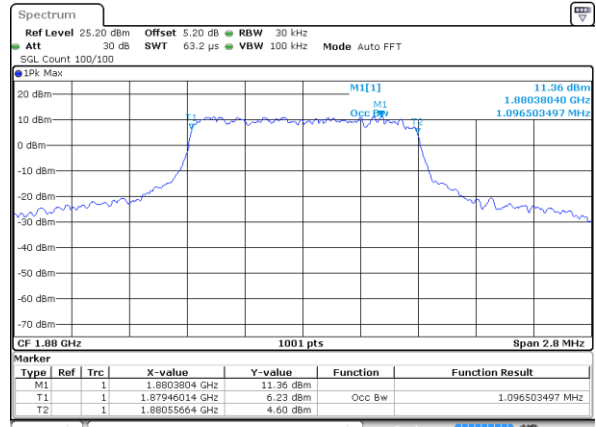
Date: 27 APR 2019 08:39:57

Middle Channel / 1.4MHz / QPSK



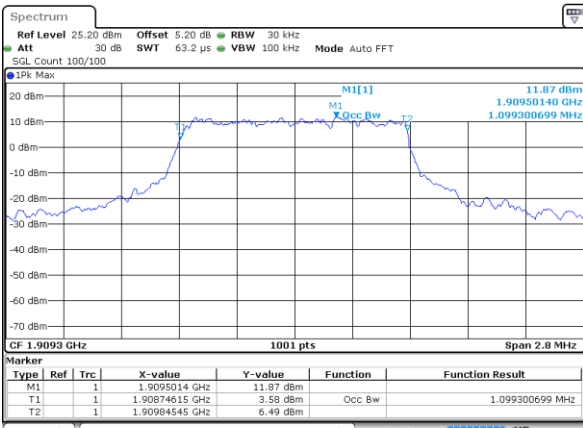
Date: 27 APR 2019 08:47:32

Middle Channel / 1.4MHz / 16QAM



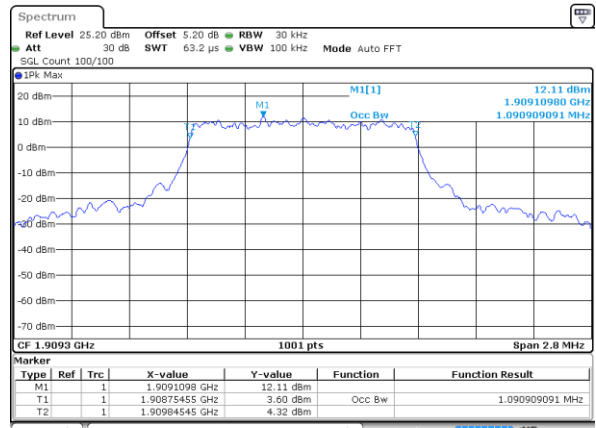
Date: 27 APR 2019 08:47:42

Highest Channel / 1.4MHz / QPSK



Date: 27 APR 2019 08:50:00

Highest Channel / 1.4MHz / 16QAM

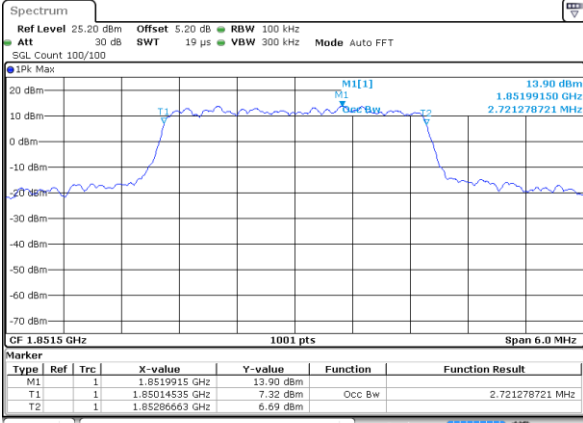


Date: 27 APR 2019 08:50:10



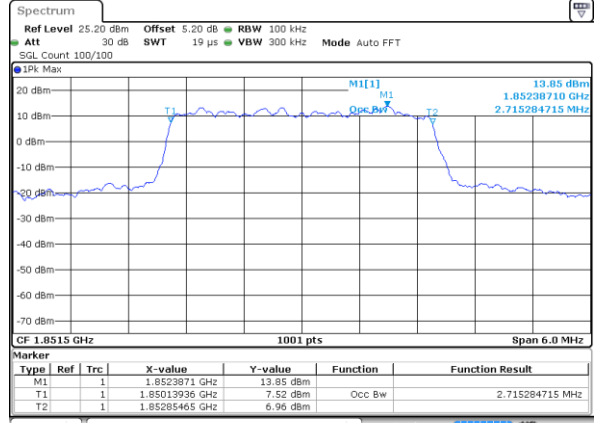
LTE Band 2

Lowest Channel / 3MHz / QPSK



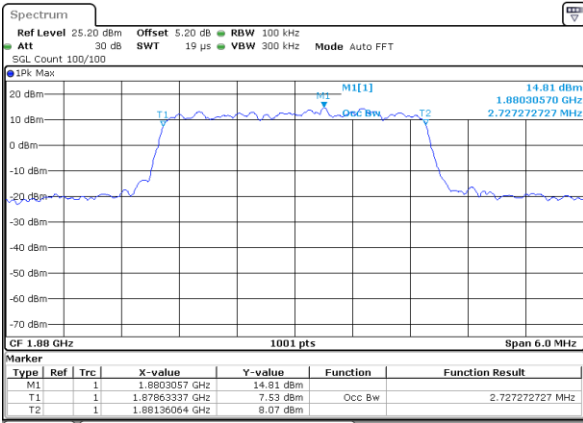
Date: 27 APR 2019 08:59:12

Lowest Channel / 3MHz / 16QAM



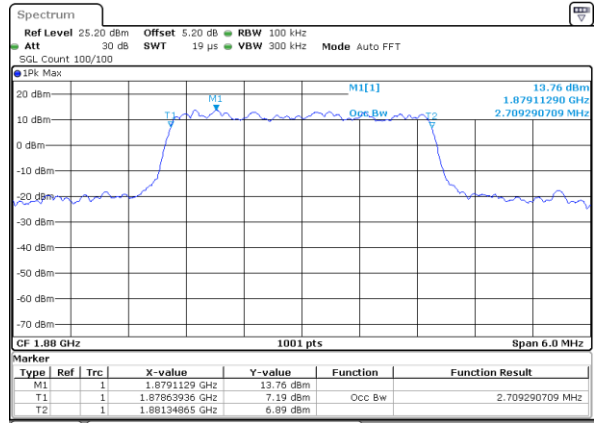
Date: 27 APR 2019 08:59:22

Middle Channel / 3MHz / QPSK



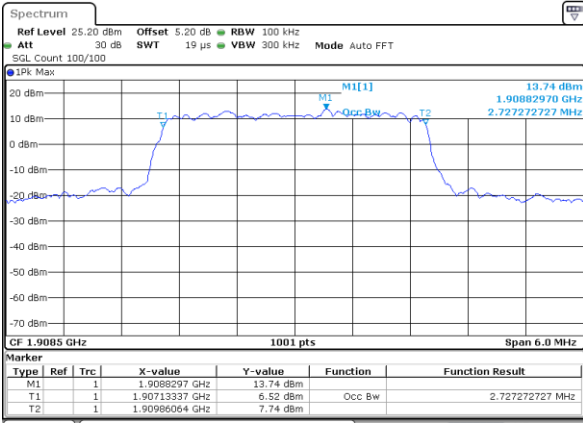
Date: 27 APR 2019 09:06:10

Middle Channel / 3MHz / 16QAM



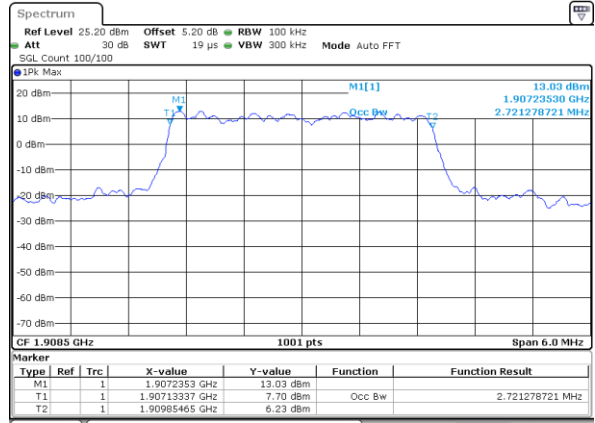
Date: 27 APR 2019 09:06:20

Highest Channel / 3MHz / QPSK



Date: 27 APR 2019 09:08:38

Highest Channel / 3MHz / 16QAM

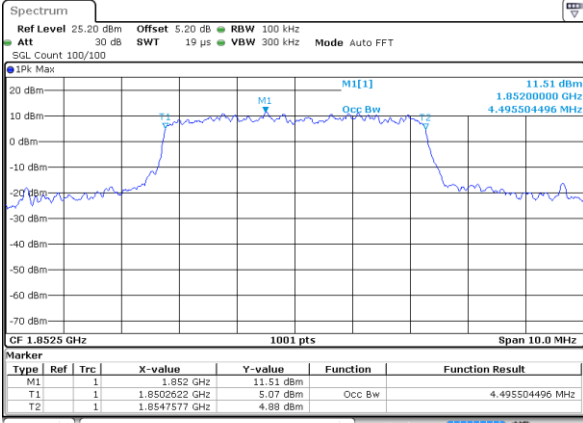


Date: 27 APR 2019 09:08:48



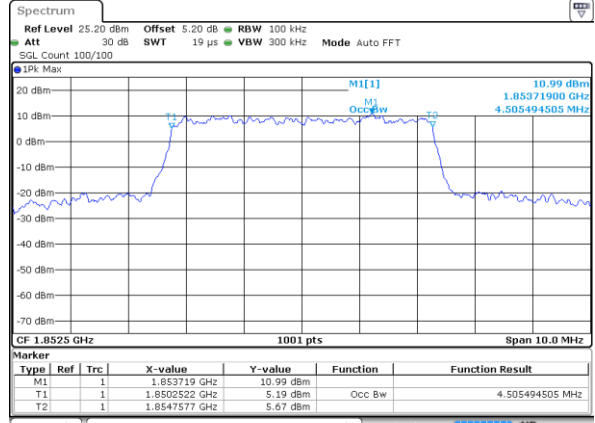
LTE Band 2

Lowest Channel / 5MHz / QPSK



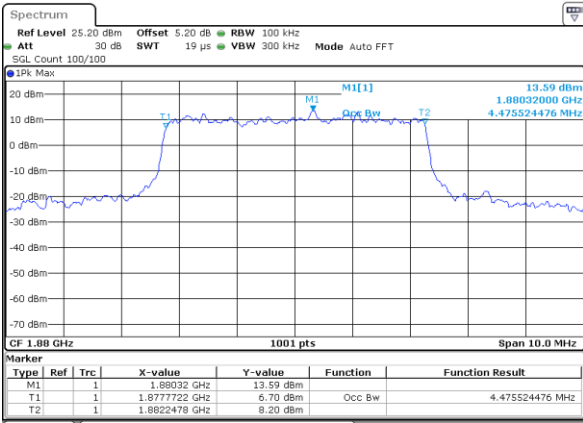
Date: 27 APR 2019 09:47:42

Lowest Channel / 5MHz / 16QAM



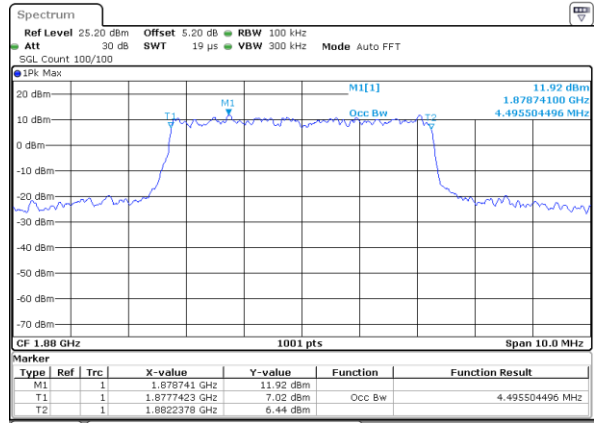
Date: 27 APR 2019 09:47:52

Middle Channel / 5MHz / QPSK



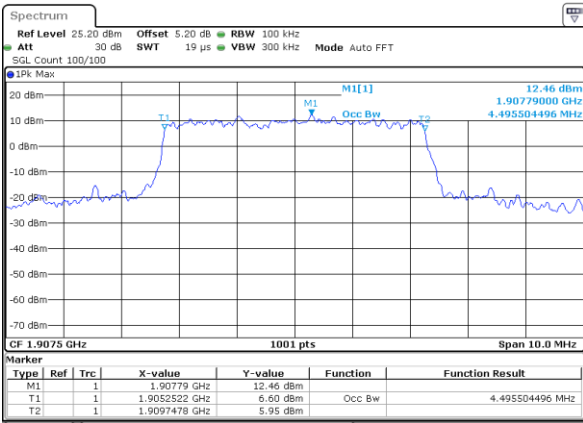
Date: 27 APR 2019 09:52:50

Middle Channel / 5MHz / 16QAM



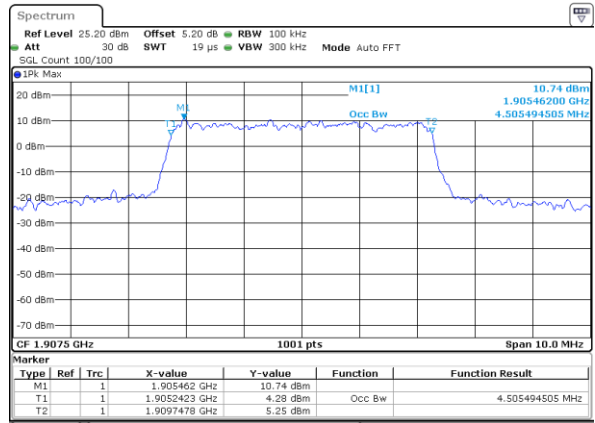
Date: 27 APR 2019 09:53:00

Highest Channel / 5MHz / QPSK



Date: 27 APR 2019 09:53:30

Highest Channel / 5MHz / 16QAM

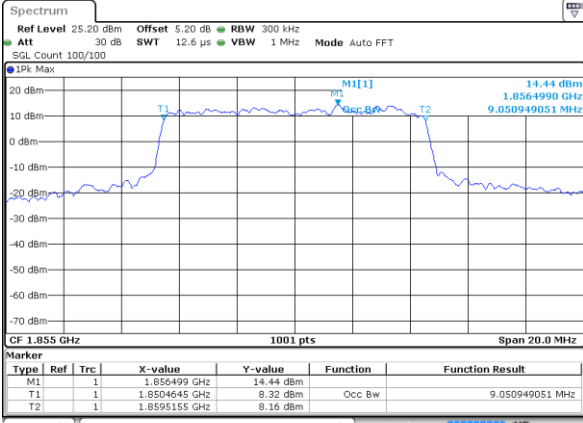


Date: 27 APR 2019 09:53:40



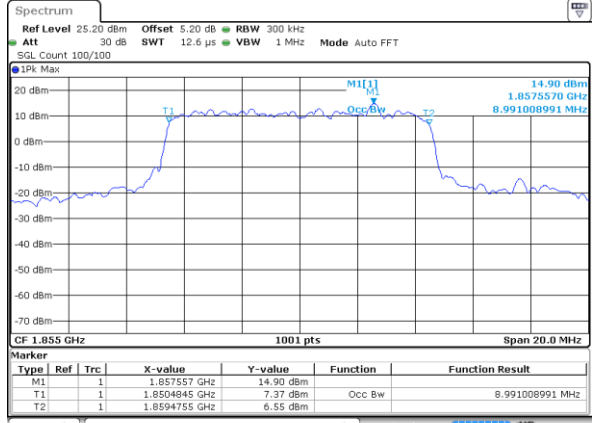
LTE Band 2

Lowest Channel / 10MHz / QPSK



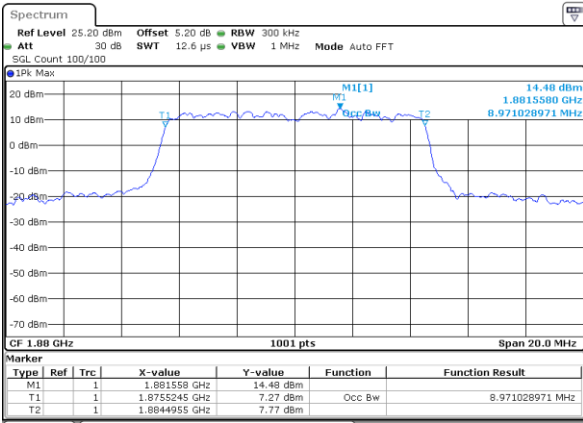
Date: 27 APR 2019 09:58:38

Lowest Channel / 10MHz / 16QAM



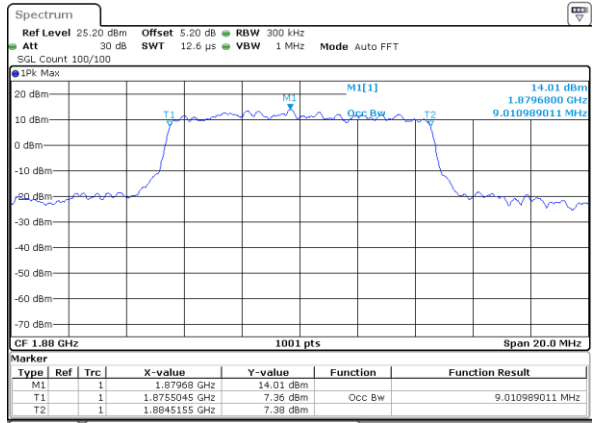
Date: 27 APR 2019 09:58:48

Middle Channel / 10MHz / QPSK



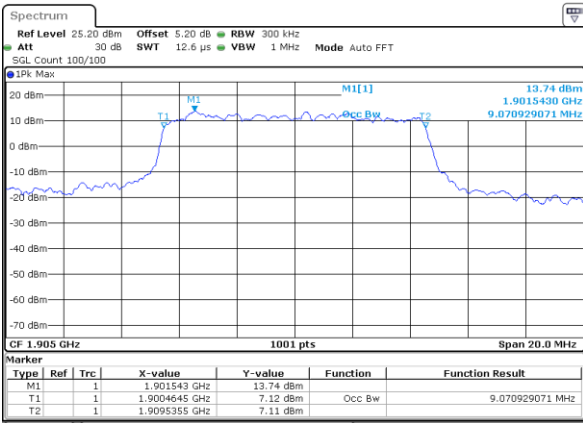
Date: 27 APR 2019 10:03:46

Middle Channel / 10MHz / 16QAM



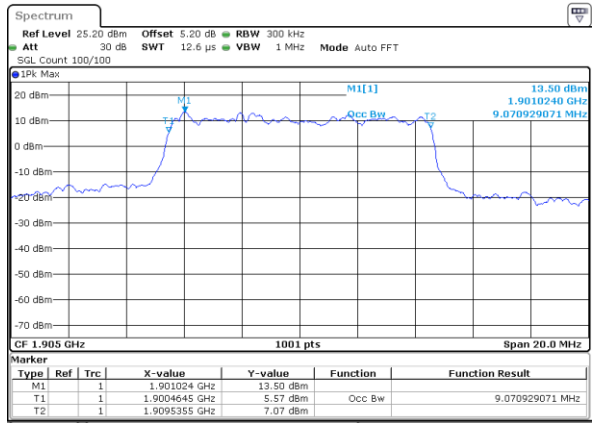
Date: 27 APR 2019 10:03:56

Highest Channel / 10MHz / QPSK



Date: 27 APR 2019 10:04:26

Highest Channel / 10MHz / 16QAM

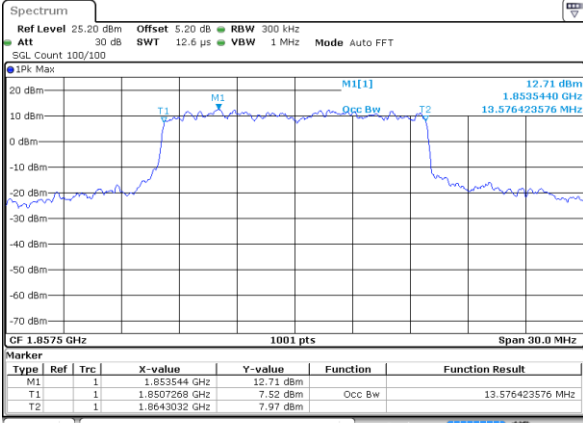


Date: 27 APR 2019 10:04:36



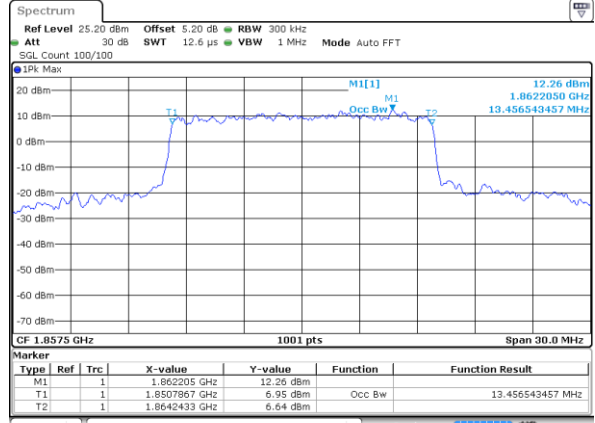
LTE Band 2

Lowest Channel / 15MHz / QPSK



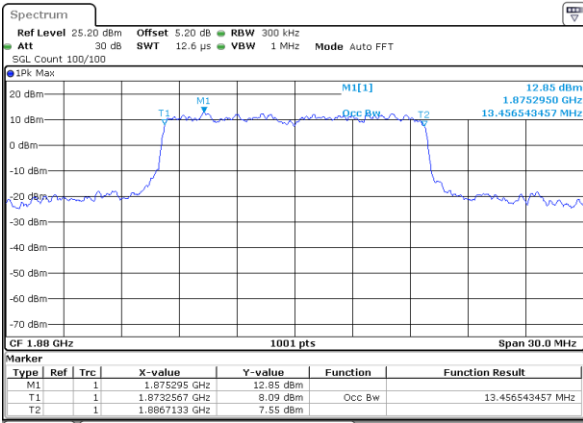
Date: 27 APR 2019 10:09:34

Lowest Channel / 15MHz / 16QAM



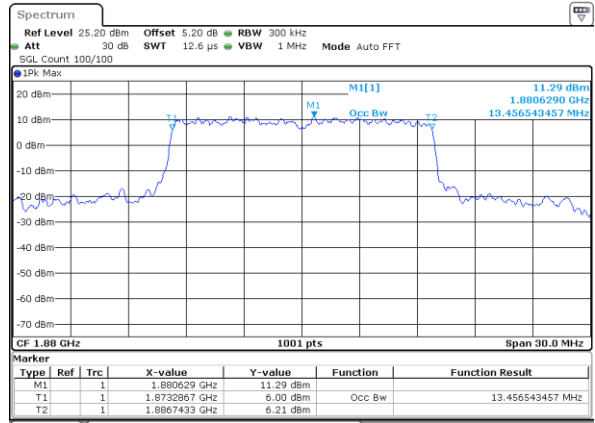
Date: 27 APR 2019 10:09:44

Middle Channel / 15MHz / QPSK



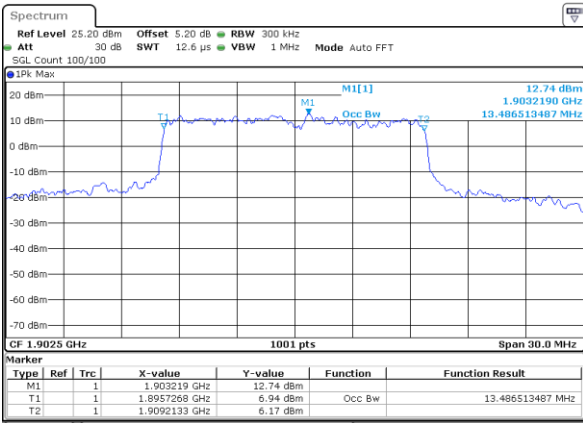
Date: 27 APR 2019 10:14:42

Middle Channel / 15MHz / 16QAM



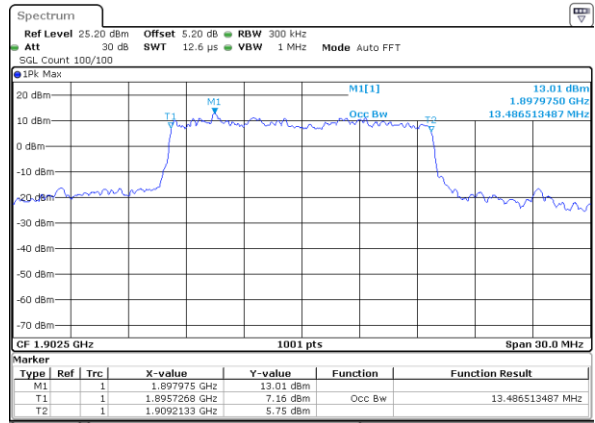
Date: 27 APR 2019 10:14:52

Highest Channel / 15MHz / QPSK



Date: 27 APR 2019 10:15:22

Highest Channel / 15MHz / 16QAM

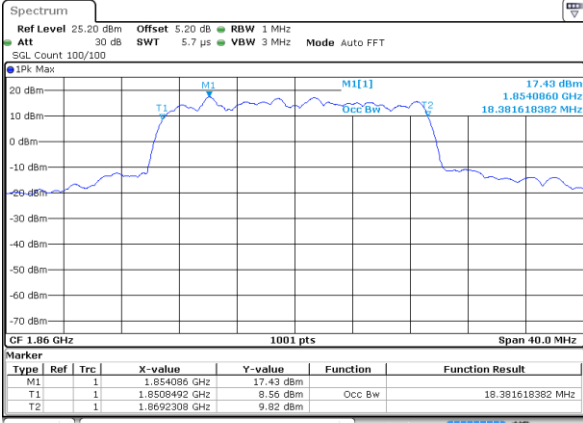


Date: 27 APR 2019 10:15:32



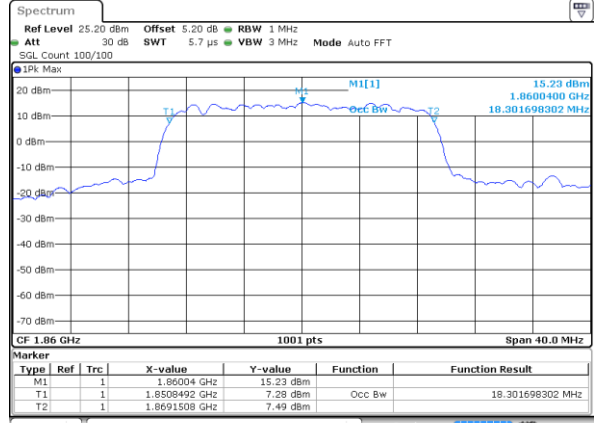
LTE Band 2

Lowest Channel / 20MHz / QPSK



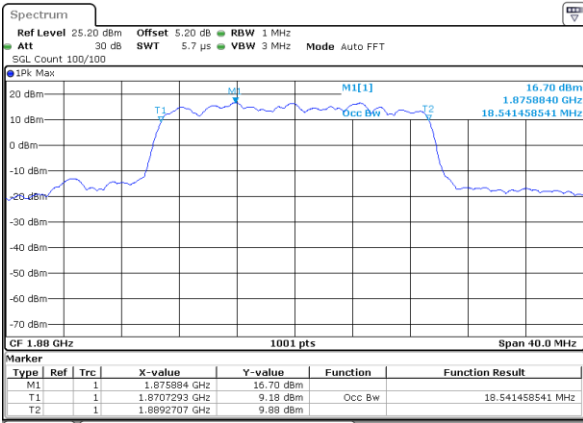
Date: 27 APR 2019 10:20:30

Lowest Channel / 20MHz / 16QAM



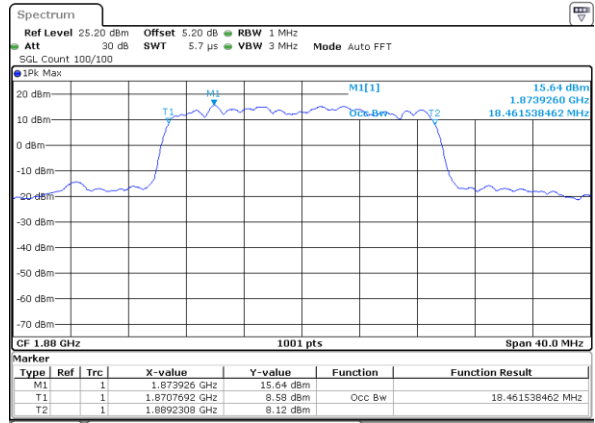
Date: 27 APR 2019 10:20:40

Middle Channel / 20MHz / QPSK



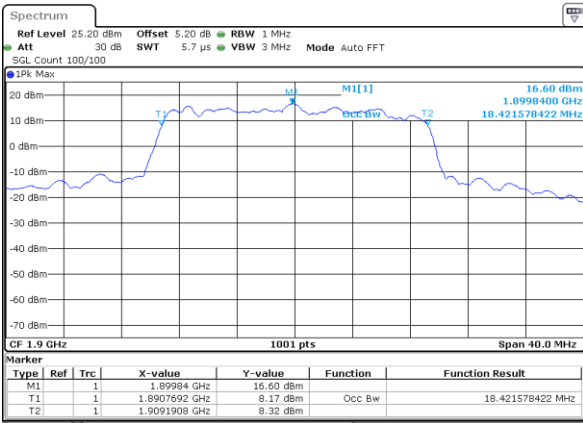
Date: 27 APR 2019 10:25:38

Middle Channel / 20MHz / 16QAM



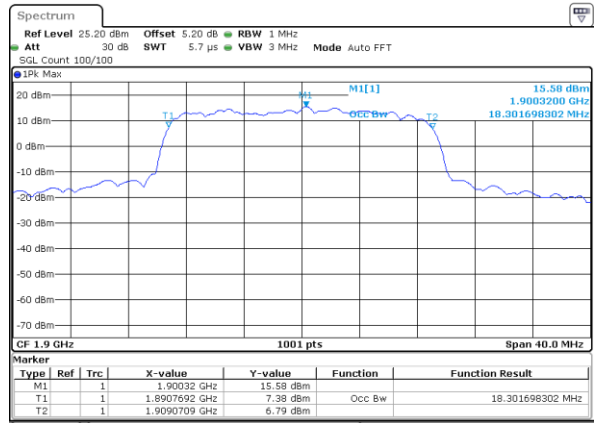
Date: 27 APR 2019 10:25:48

Highest Channel / 20MHz / QPSK



Date: 27 APR 2019 10:26:18

Highest Channel / 20MHz / 16QAM

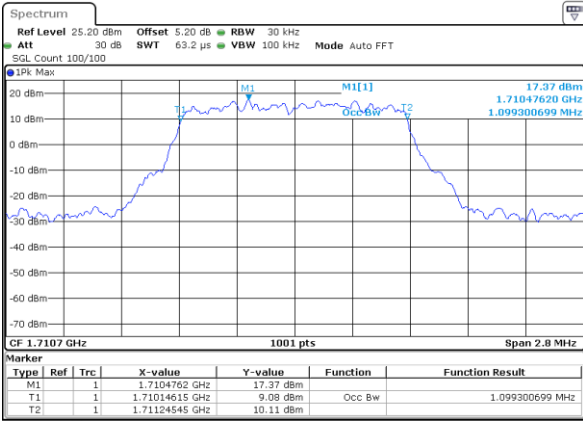


Date: 27 APR 2019 10:26:28



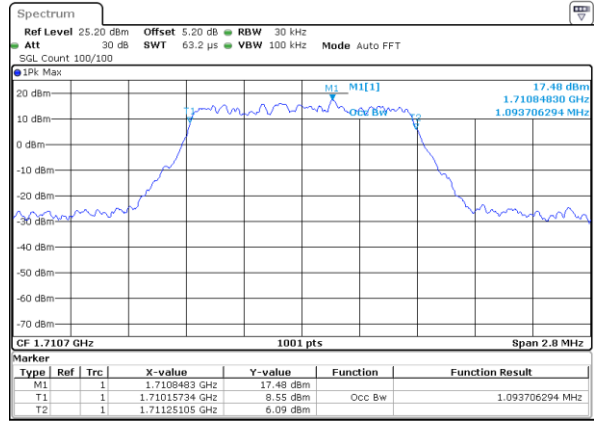
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



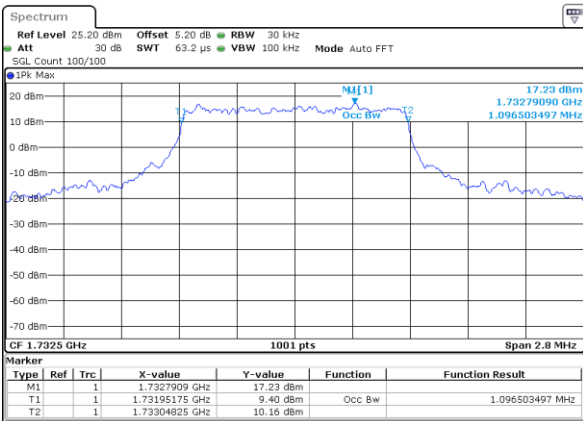
Date: 27 APR 2019 11:36:25

Lowest Channel / 1.4MHz / 16QAM



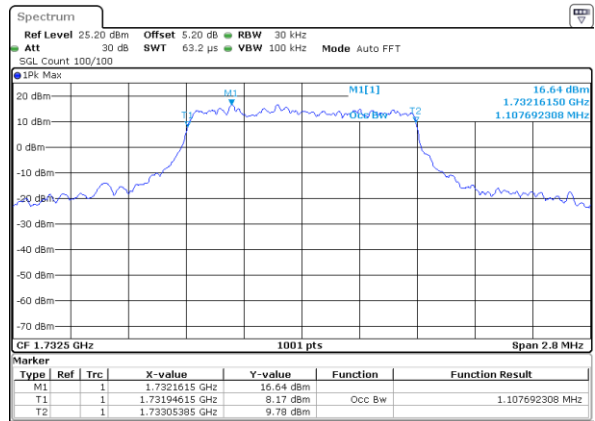
Date: 27 APR 2019 11:36:35

Middle Channel / 1.4MHz / QPSK



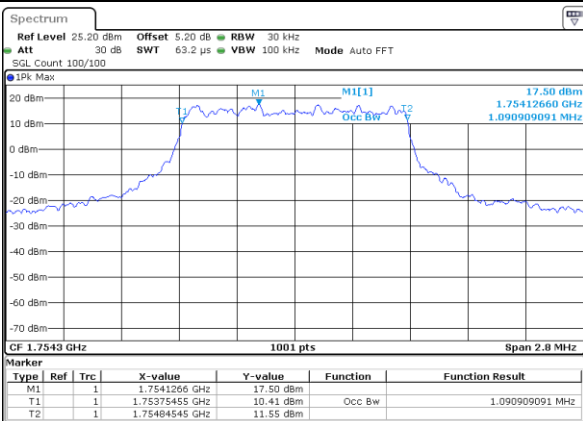
Date: 27 APR 2019 11:43:21

Middle Channel / 1.4MHz / 16QAM



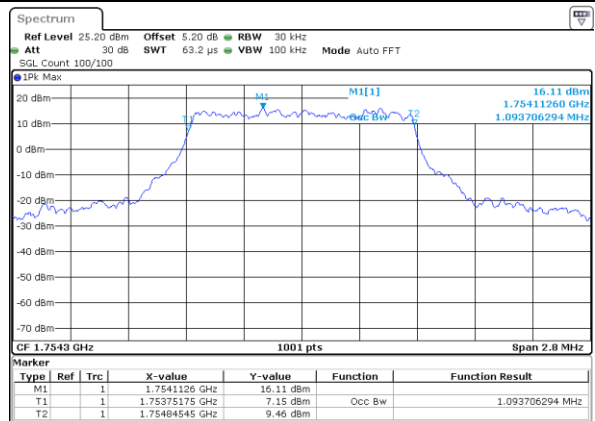
Date: 27 APR 2019 11:43:31

Highest Channel / 1.4MHz / QPSK



Date: 27 APR 2019 11:45:49

Highest Channel / 1.4MHz / 16QAM

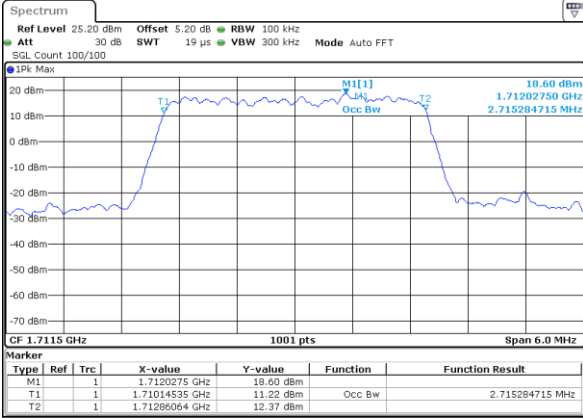


Date: 27 APR 2019 11:45:59



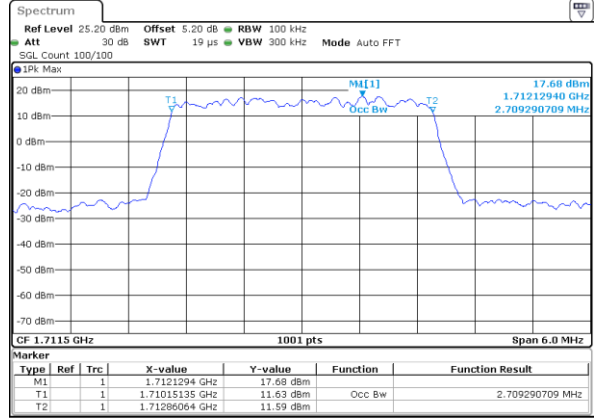
LTE Band 4

Lowest Channel / 3MHz / QPSK



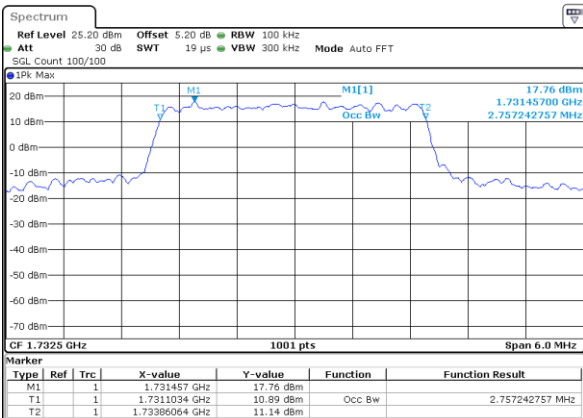
Date: 27 APR 2019 11:58:32

Lowest Channel / 3MHz / 16QAM



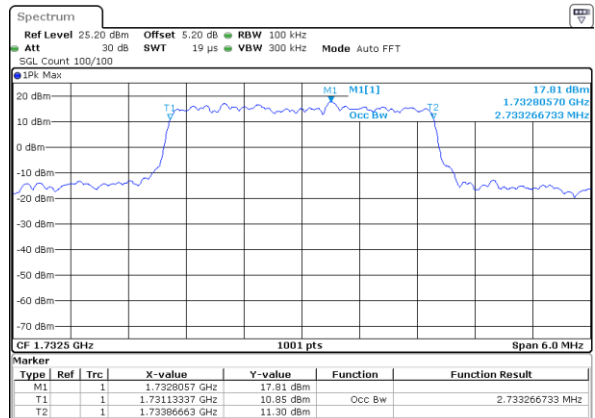
Date: 27 APR 2019 11:58:43

Middle Channel / 3MHz / QPSK



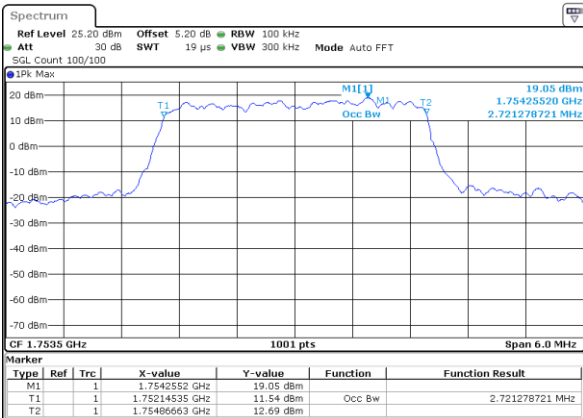
Date: 27 APR 2019 12:05:28

Middle Channel / 3MHz / 16QAM



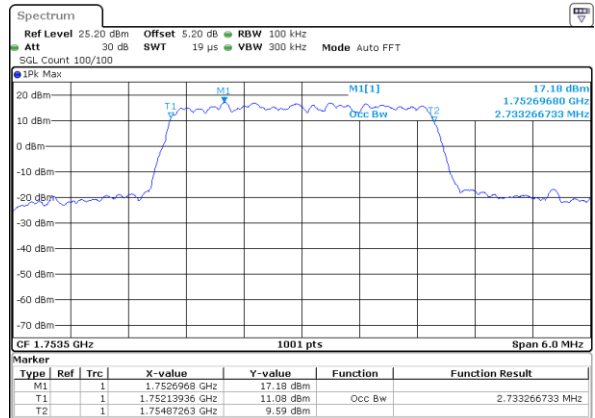
Date: 27 APR 2019 12:05:38

Highest Channel / 3MHz / QPSK



Date: 27 APR 2019 12:07:56

Highest Channel / 3MHz / 16QAM



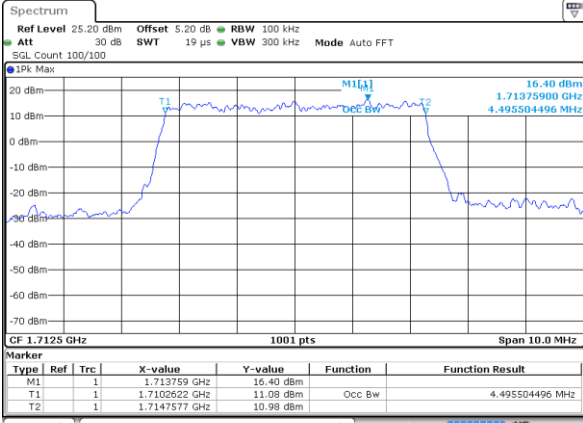
Date: 27 APR 2019 12:08:06





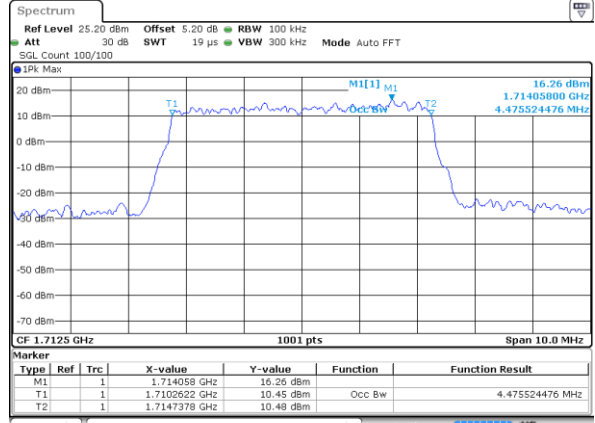
LTE Band 4

Lowest Channel / 5MHz / QPSK



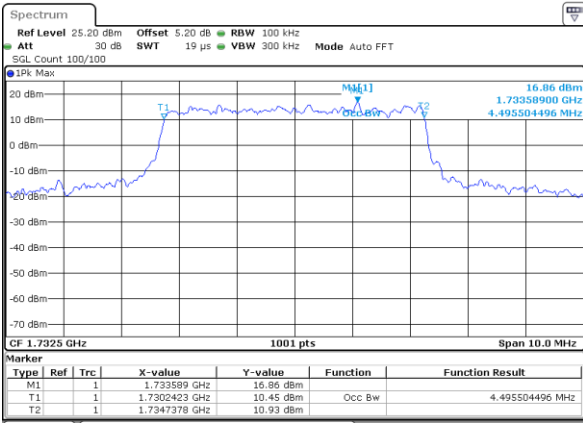
Date: 27 APR 2019 12:14:51

Lowest Channel / 5MHz / 16QAM



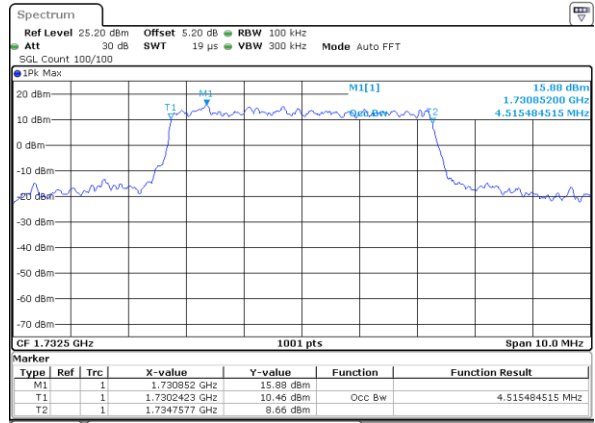
Date: 27 APR 2019 12:15:01

Middle Channel / 5MHz / QPSK



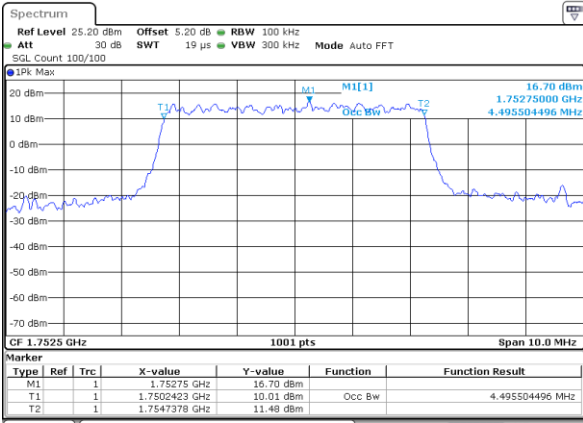
Date: 27 APR 2019 12:21:46

Middle Channel / 5MHz / 16QAM



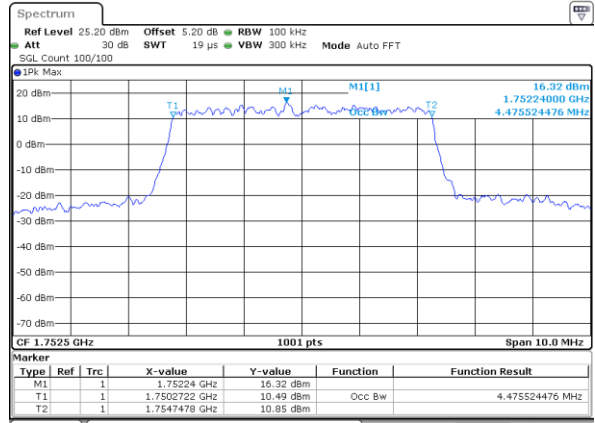
Date: 27 APR 2019 12:21:56

Highest Channel / 5MHz / QPSK



Date: 27 APR 2019 12:24:13

Highest Channel / 5MHz / 16QAM

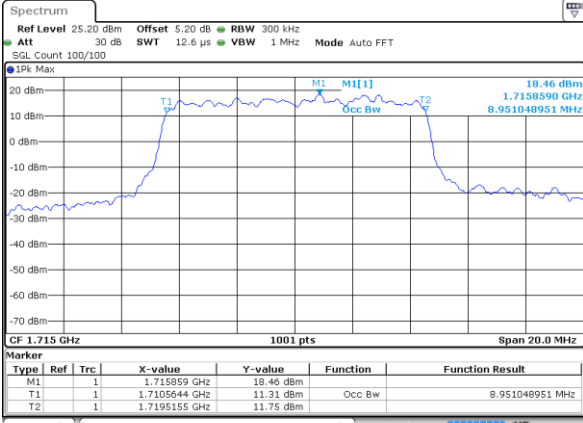


Date: 27 APR 2019 12:24:23



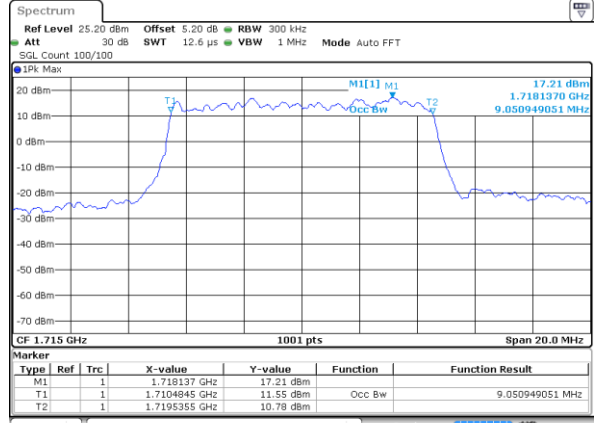
LTE Band 4

Lowest Channel / 10MHz / QPSK



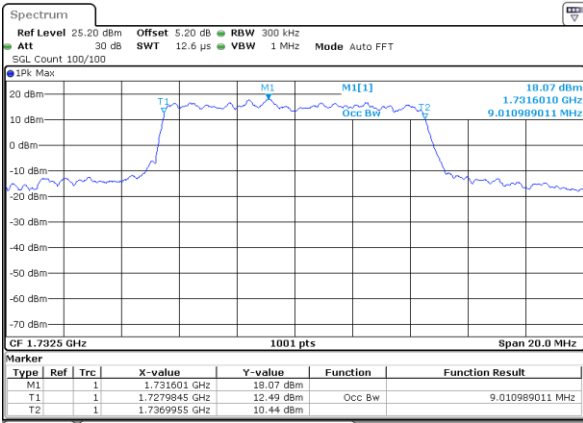
Date: 27 APR 2019 12:31:09

Lowest Channel / 10MHz / 16QAM



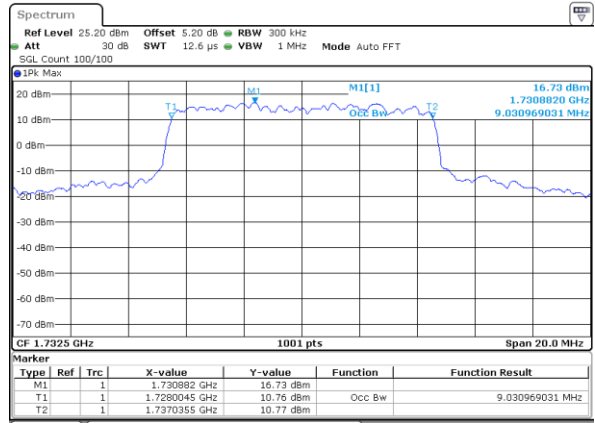
Date: 27 APR 2019 12:31:19

Middle Channel / 10MHz / QPSK



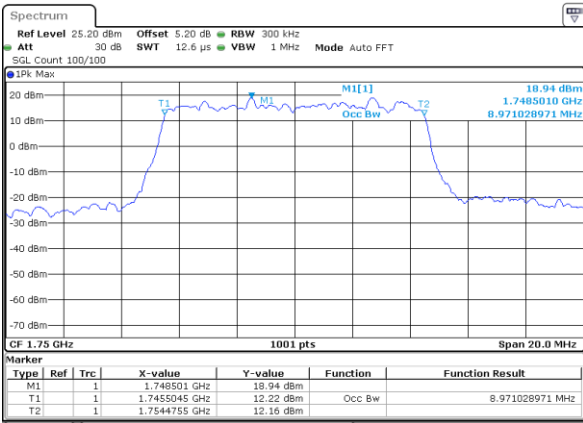
Date: 27 APR 2019 12:38:06

Middle Channel / 10MHz / 16QAM



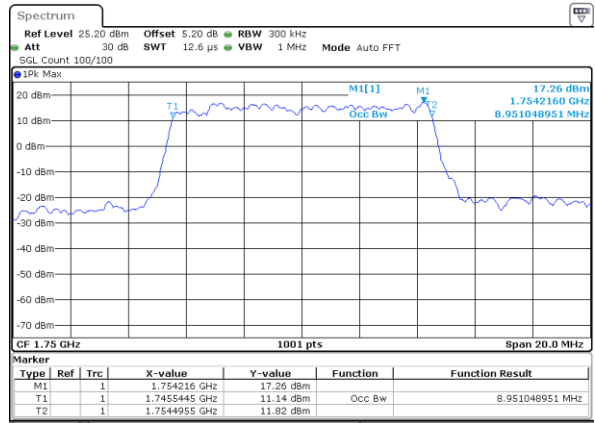
Date: 27 APR 2019 12:38:16

Highest Channel / 10MHz / QPSK



Date: 27 APR 2019 12:40:34

Highest Channel / 10MHz / 16QAM

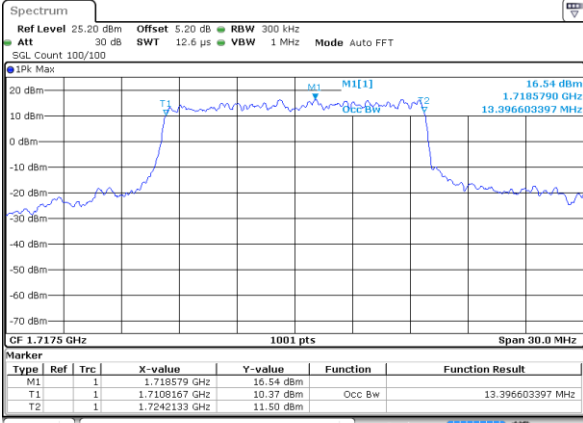


Date: 27 APR 2019 12:40:44



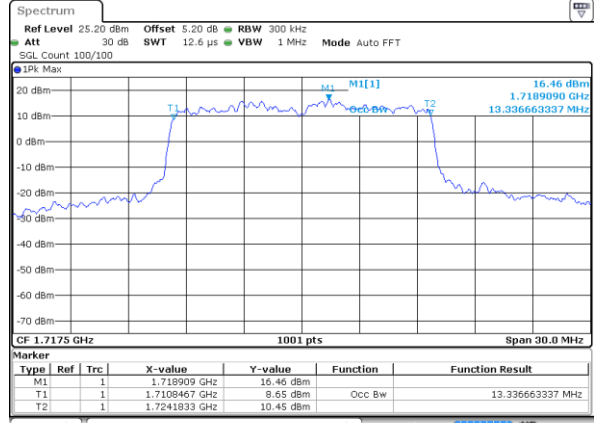
LTE Band 4

Lowest Channel / 15MHz / QPSK



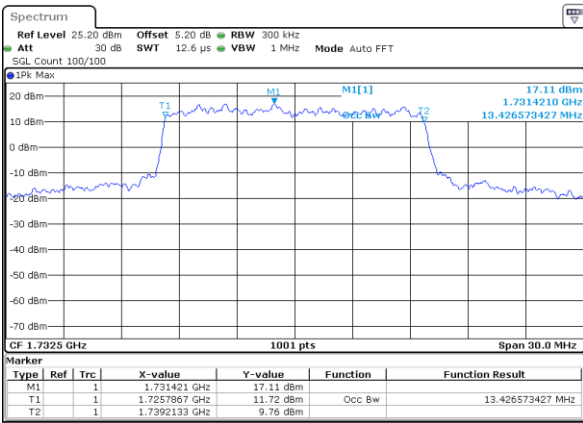
Date: 27 APR 2019 12:47:29

Lowest Channel / 15MHz / 16QAM



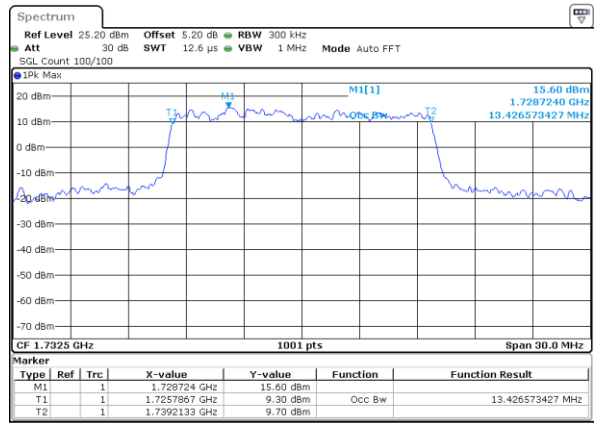
Date: 27 APR 2019 12:47:39

Middle Channel / 15MHz / QPSK



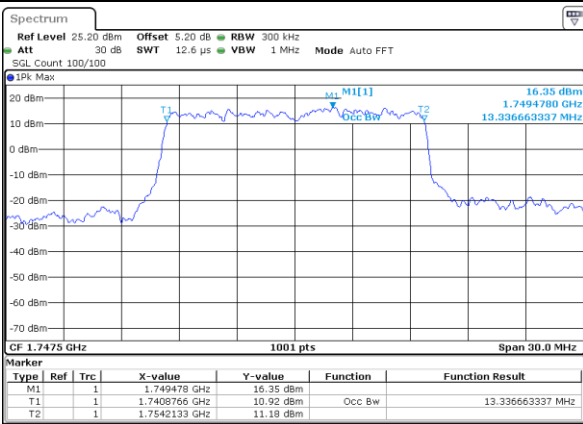
Date: 27 APR 2019 12:54:25

Middle Channel / 15MHz / 16QAM



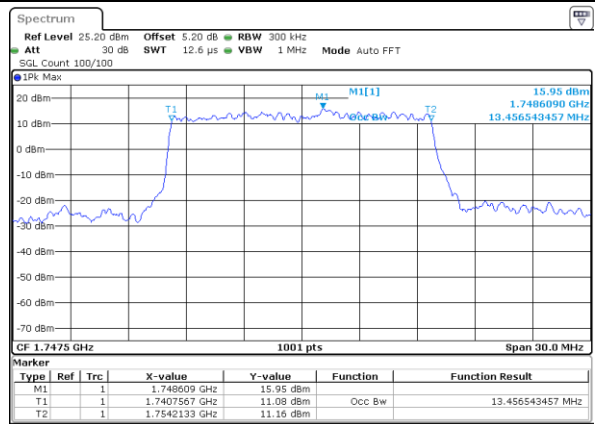
Date: 27 APR 2019 12:54:35

Highest Channel / 15MHz / QPSK



Date: 27 APR 2019 12:56:53

Highest Channel / 15MHz / 16QAM

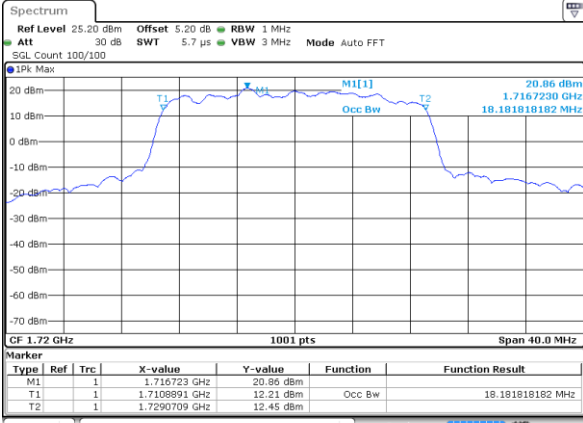


Date: 27 APR 2019 12:57:03



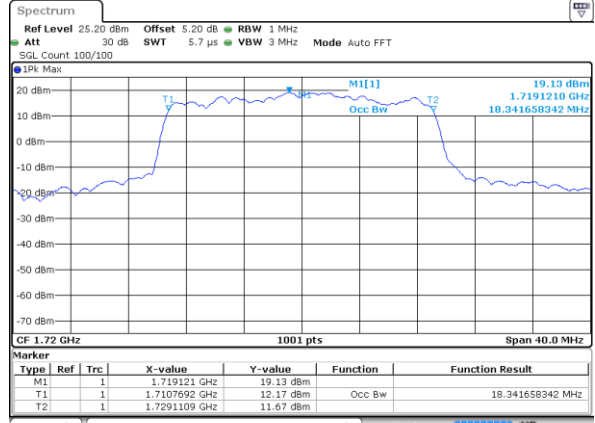
LTE Band 4

Lowest Channel / 20MHz / QPSK



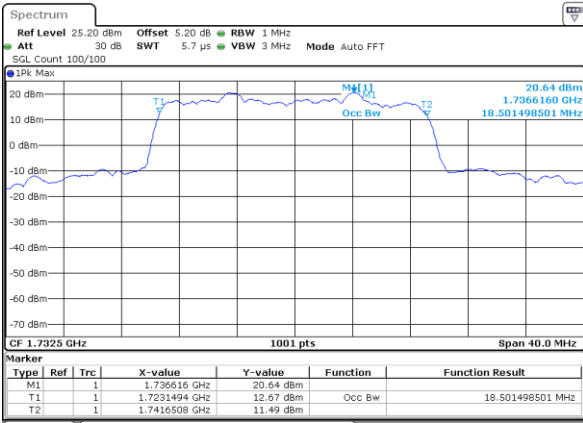
Date: 27 APR 2019 13:03:48

Lowest Channel / 20MHz / 16QAM



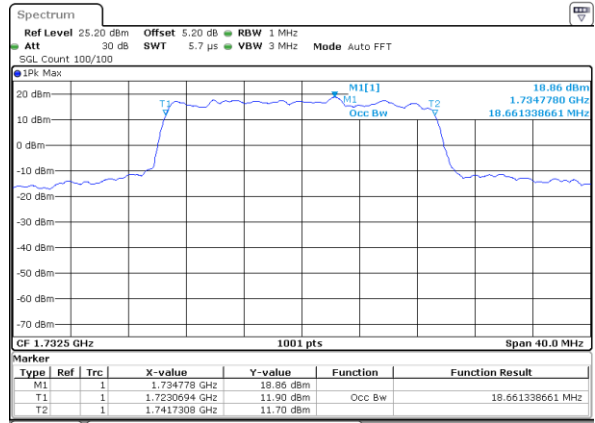
Date: 27 APR 2019 13:03:59

Middle Channel / 20MHz / QPSK



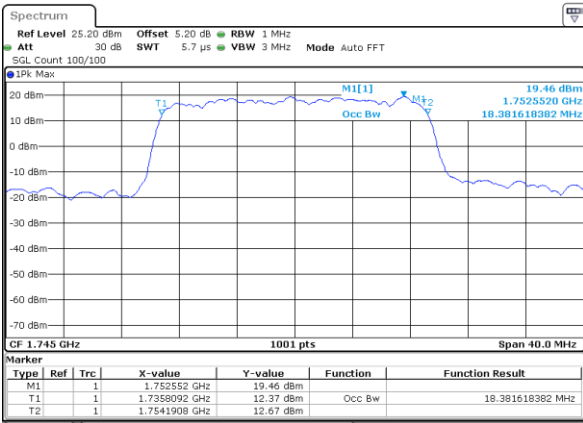
Date: 27 APR 2019 13:10:44

Middle Channel / 20MHz / 16QAM



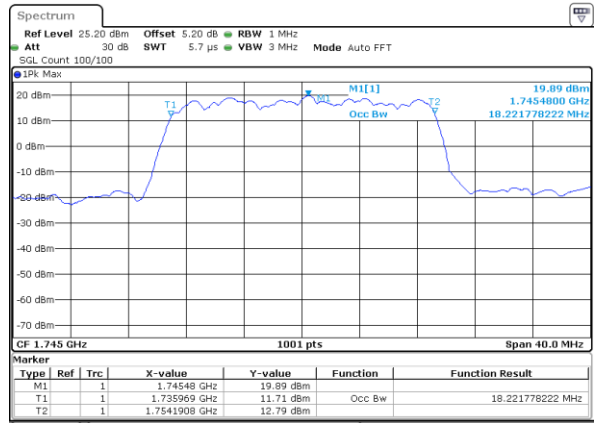
Date: 27 APR 2019 13:10:54

Highest Channel / 20MHz / QPSK



Date: 27 APR 2019 13:13:11

Highest Channel / 20MHz / 16QAM

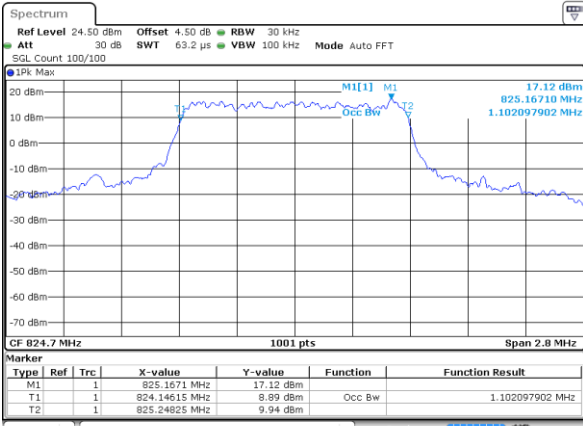


Date: 27 APR 2019 13:13:21



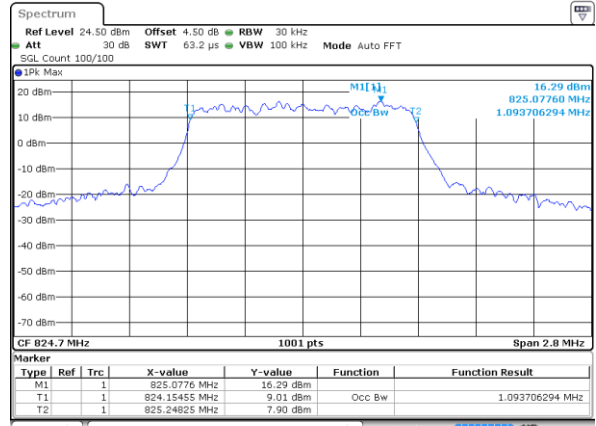
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



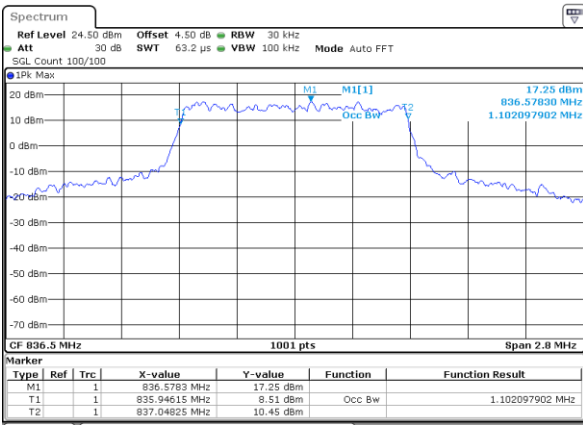
Date: 27 APR 2019 15:31:48

Lowest Channel / 1.4MHz / 16QAM



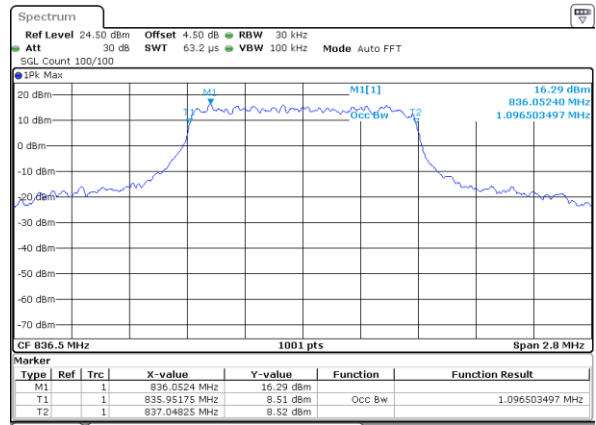
Date: 27 APR 2019 15:30:04

Middle Channel / 1.4MHz / QPSK



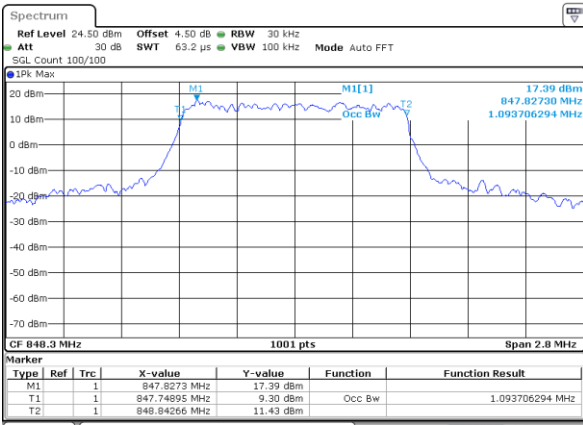
Date: 27 APR 2019 14:13:14

Middle Channel / 1.4MHz / 16QAM



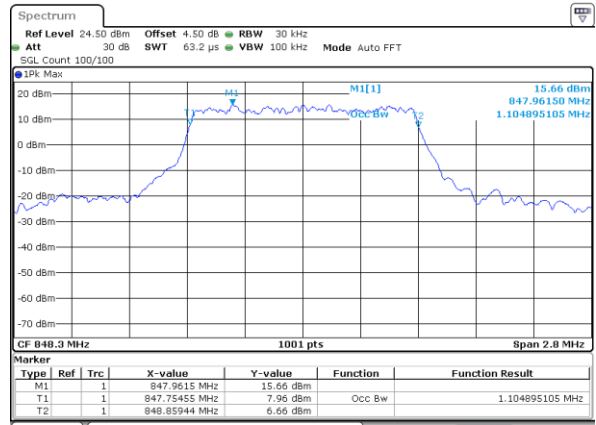
Date: 27 APR 2019 14:13:24

Highest Channel / 1.4MHz / QPSK



Date: 27 APR 2019 14:15:42

Highest Channel / 1.4MHz / 16QAM

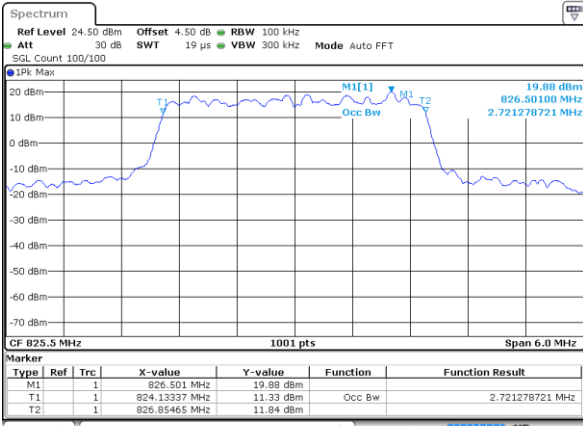


Date: 27 APR 2019 14:15:52



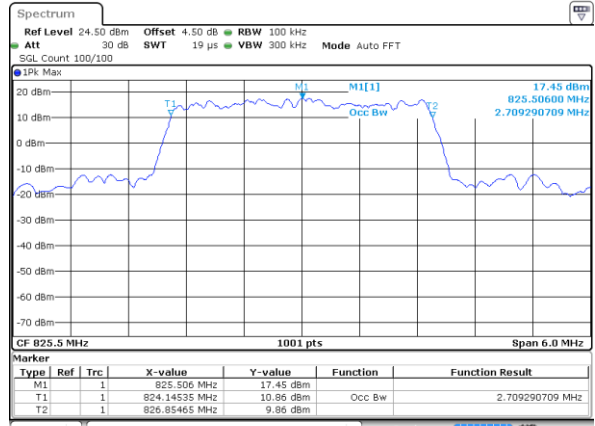
LTE Band 5

Lowest Channel / 3MHz / QPSK



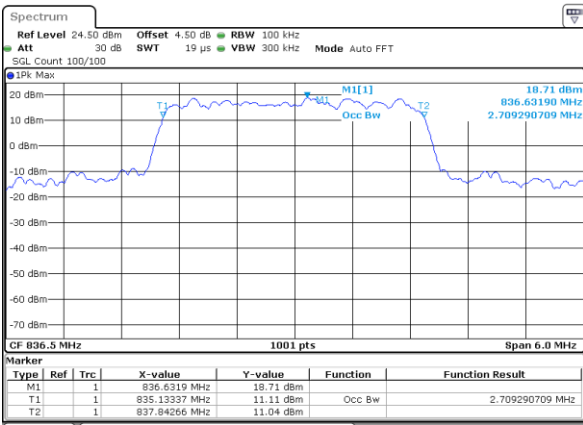
Date: 27 APR 2019 14:59:00

Lowest Channel / 3MHz / 16QAM



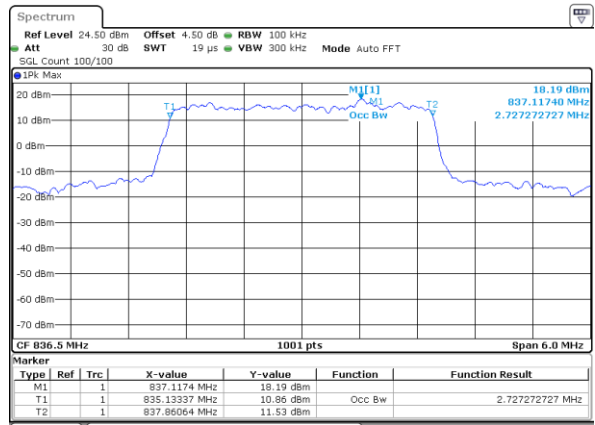
Date: 27 APR 2019 14:59:10

Middle Channel / 3MHz / QPSK



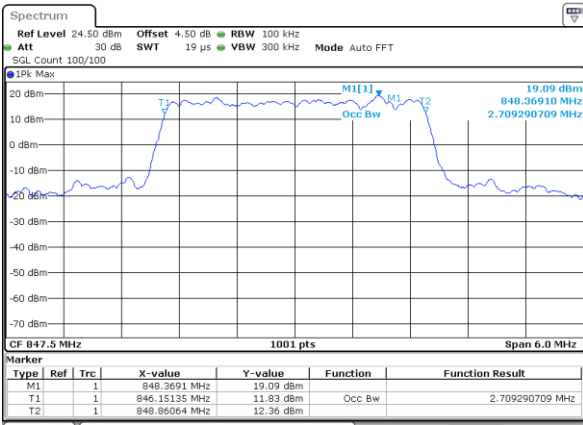
Date: 27 APR 2019 15:07:56

Middle Channel / 3MHz / 16QAM



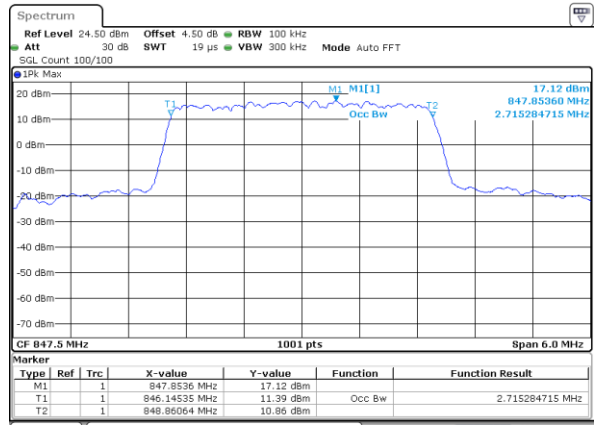
Date: 27 APR 2019 15:08:06

Highest Channel / 3MHz / QPSK



Date: 27 APR 2019 15:10:23

Highest Channel / 3MHz / 16QAM

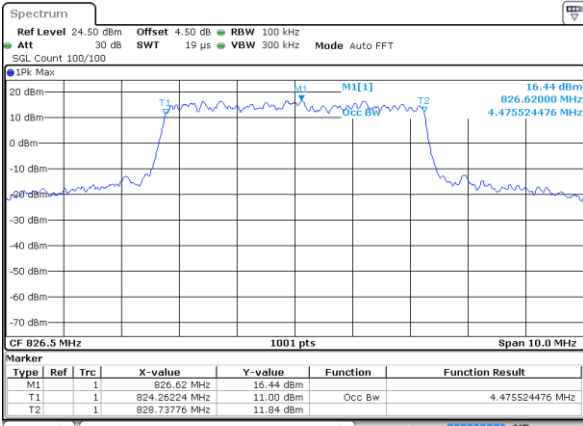


Date: 27 APR 2019 15:10:33



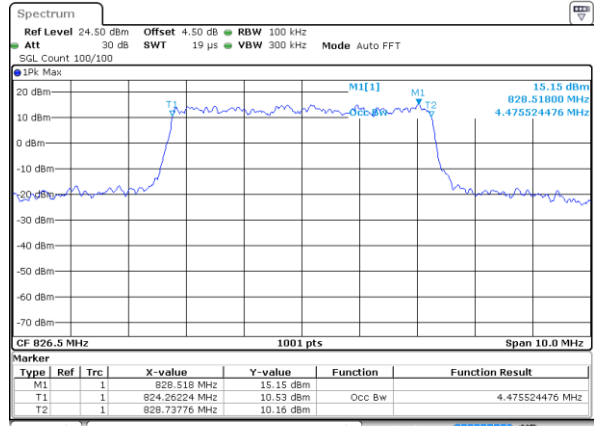
LTE Band 5

Lowest Channel / 5MHz / QPSK



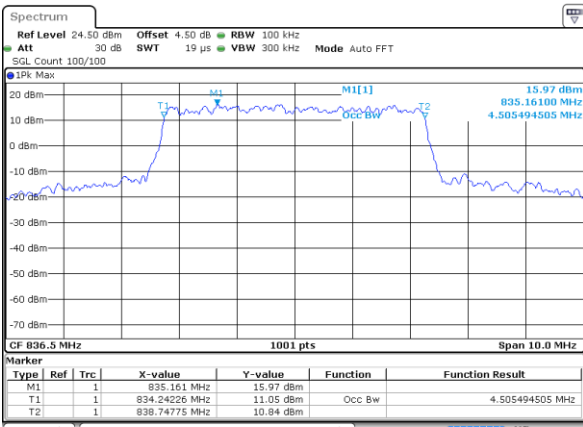
Date: 27 APR 2019 15:23:58

Lowest Channel / 5MHz / 16QAM



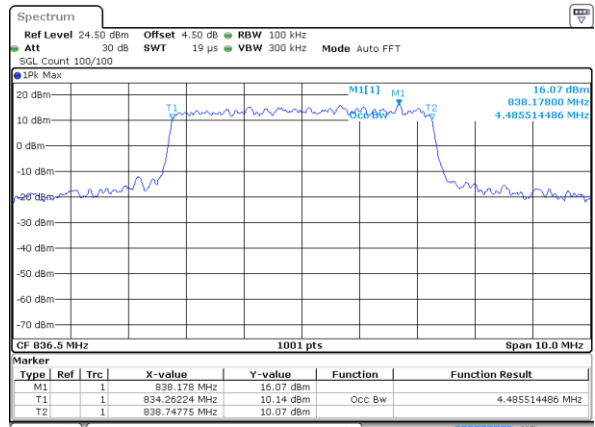
Date: 27 APR 2019 15:22:55

Middle Channel / 5MHz / QPSK



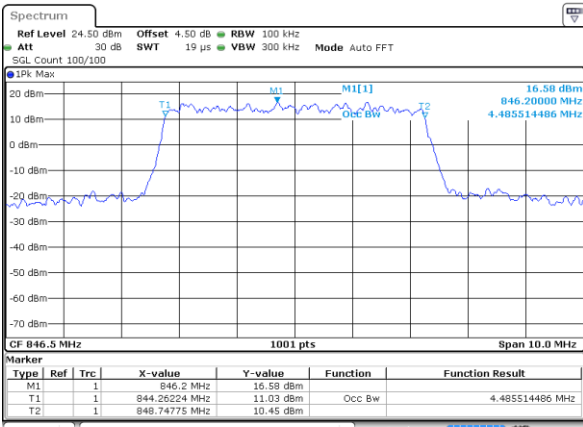
Date: 27 APR 2019 14:25:30

Middle Channel / 5MHz / 16QAM



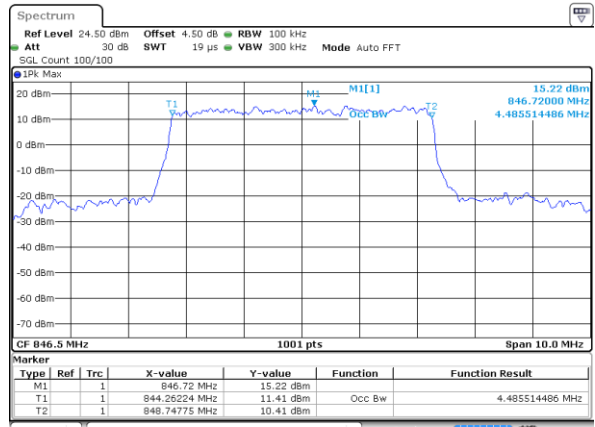
Date: 27 APR 2019 14:25:40

Highest Channel / 5MHz / QPSK



Date: 27 APR 2019 14:27:57

Highest Channel / 5MHz / 16QAM

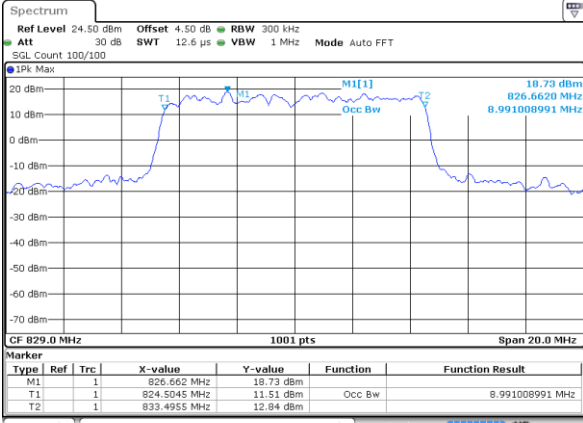


Date: 27 APR 2019 14:28:07



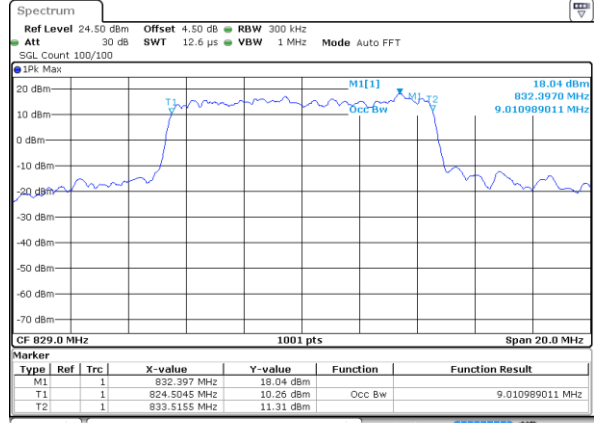
LTE Band 5

Lowest Channel / 10MHz / QPSK



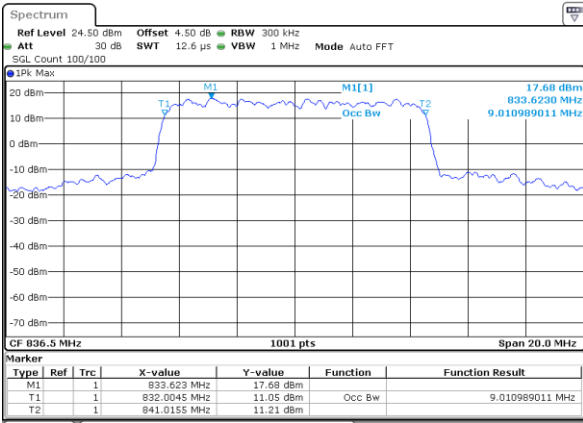
Date: 27 APR 2019 14:36:52

Lowest Channel / 10MHz / 16QAM



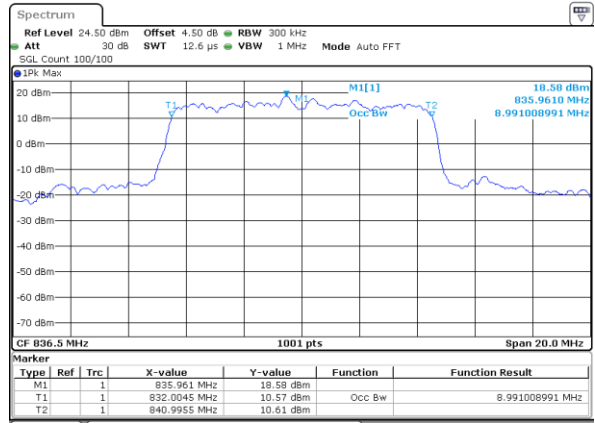
Date: 27 APR 2019 14:37:02

Middle Channel / 10MHz / QPSK



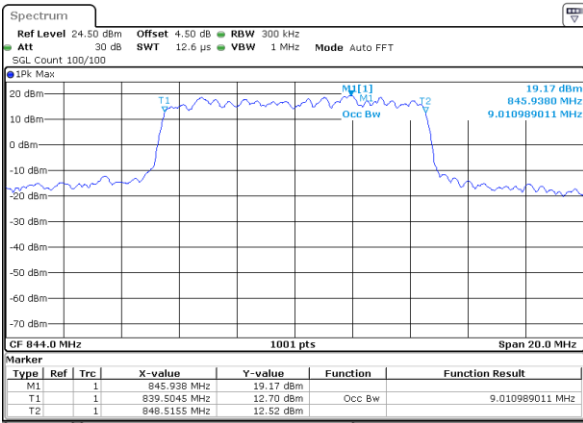
Date: 27 APR 2019 14:45:47

Middle Channel / 10MHz / 16QAM



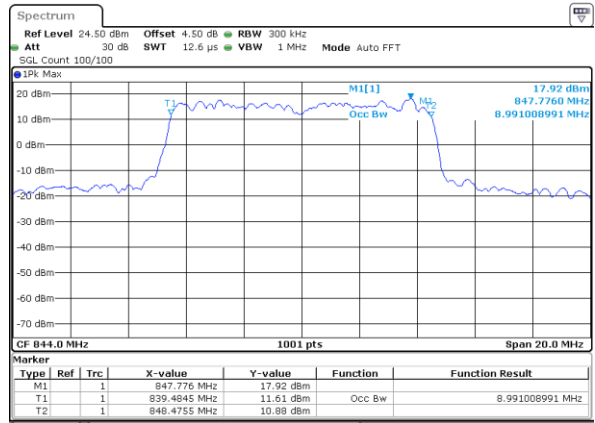
Date: 27 APR 2019 14:45:57

Highest Channel / 10MHz / QPSK



Date: 27 APR 2019 14:48:14

Highest Channel / 10MHz / 16QAM



Date: 27 APR 2019 14:48:24