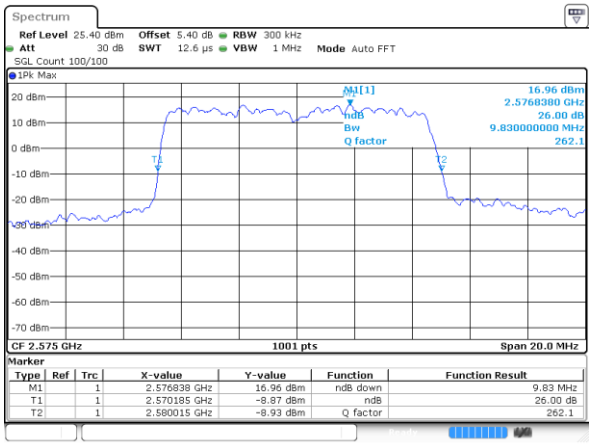
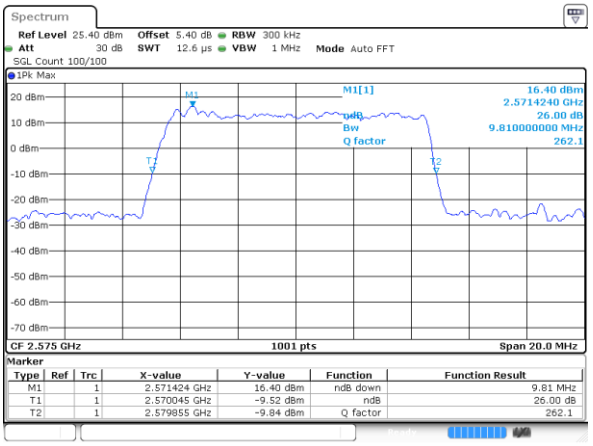
LTE Band 38

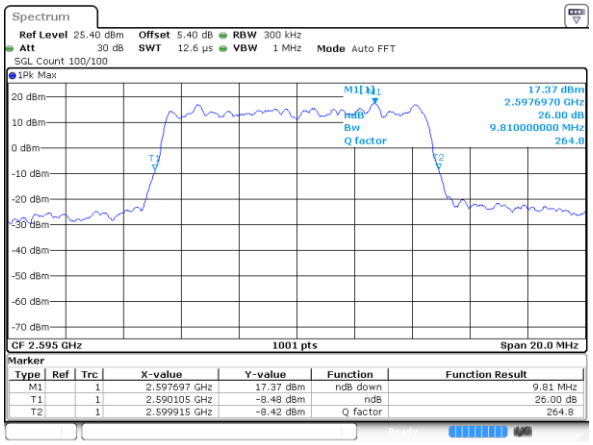
Lowest Channel / 10MHz / QPSK



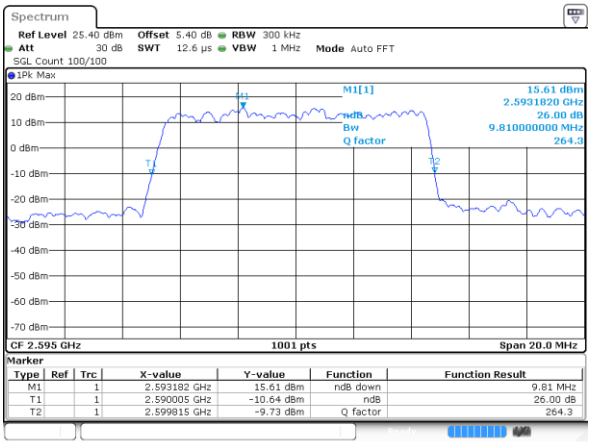
Lowest Channel / 10MHz / 16QAM



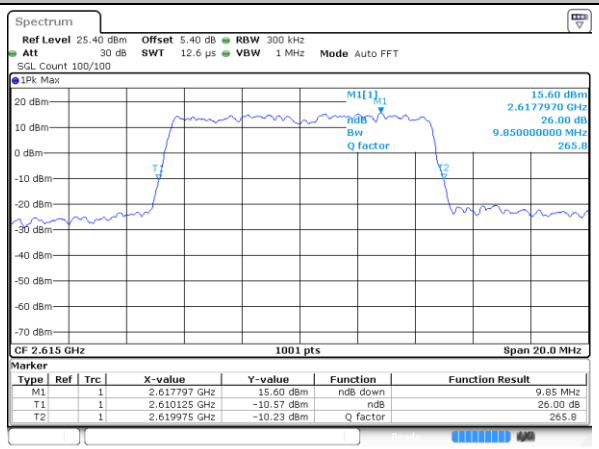
Middle Channel / 10MHz / QPSK



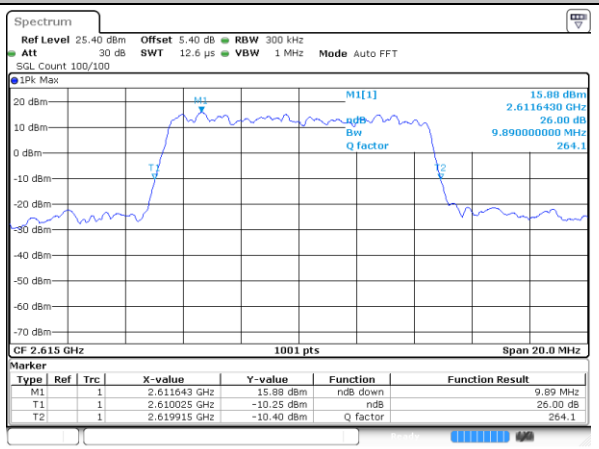
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

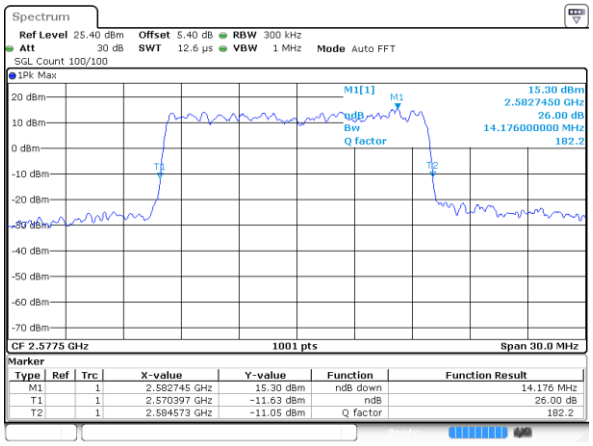


Highest Channel / 10MHz / 16QAM

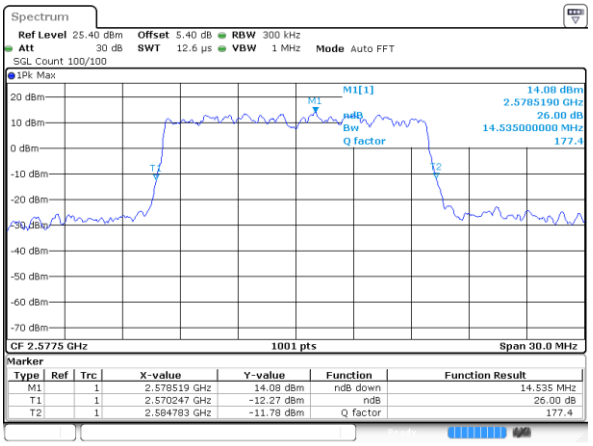


LTE Band 38

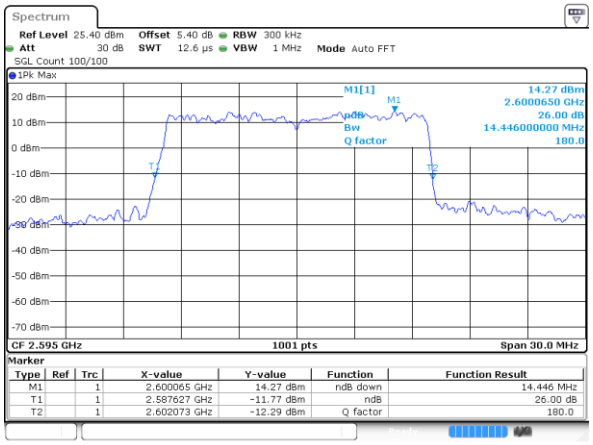
Lowest Channel / 15MHz / QPSK



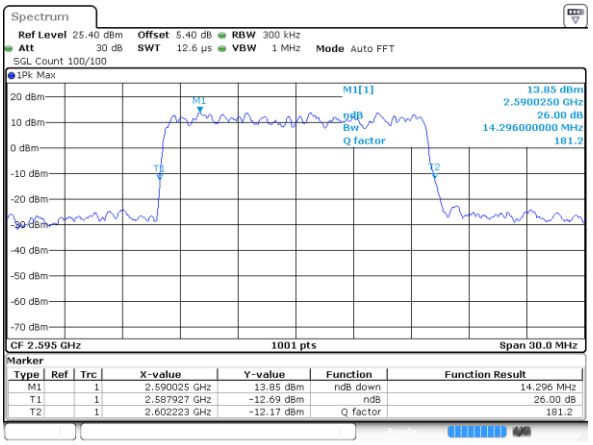
Lowest Channel / 15MHz / 16QAM



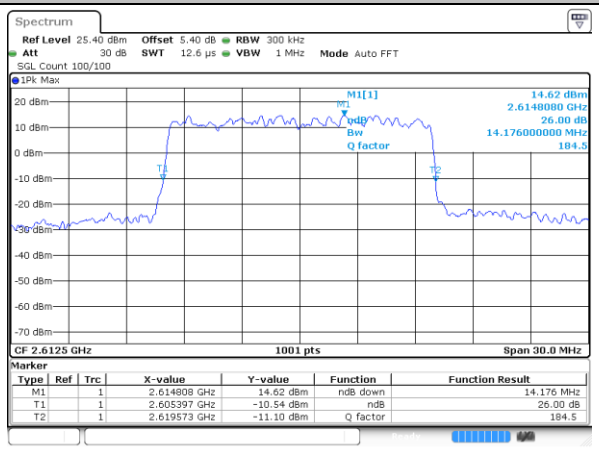
Middle Channel / 15MHz / QPSK



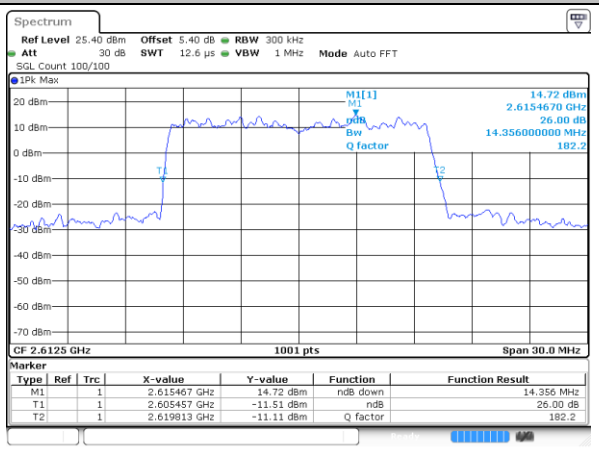
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

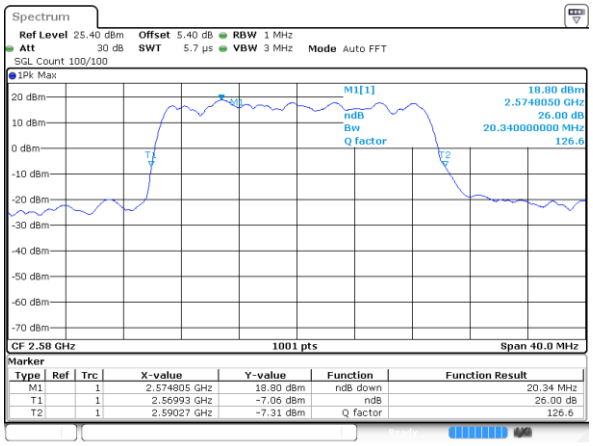


Highest Channel / 15MHz / 16QAM

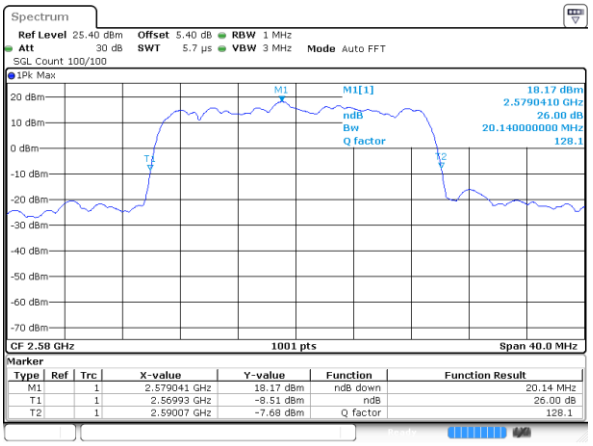


LTE Band 38

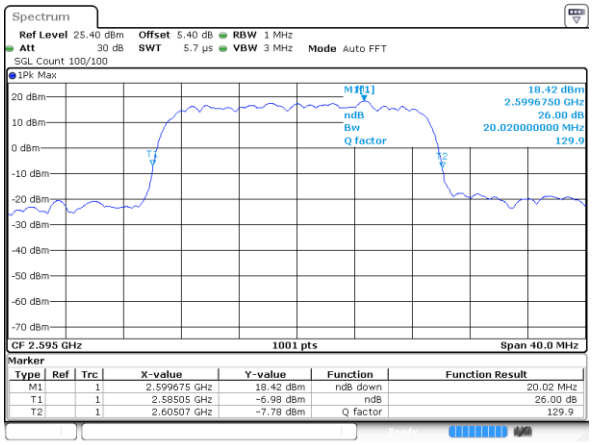
Lowest Channel / 20MHz / QPSK



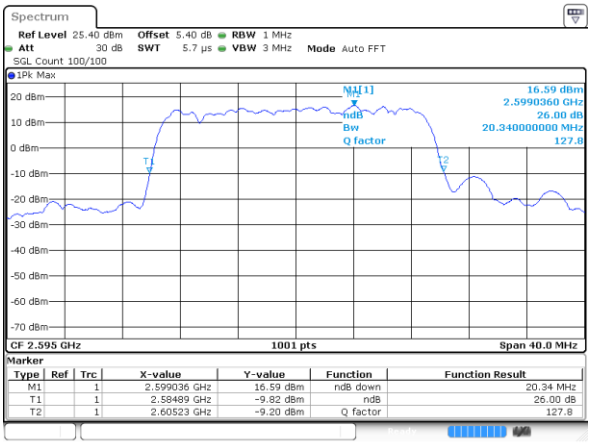
Lowest Channel / 20MHz / 16QAM



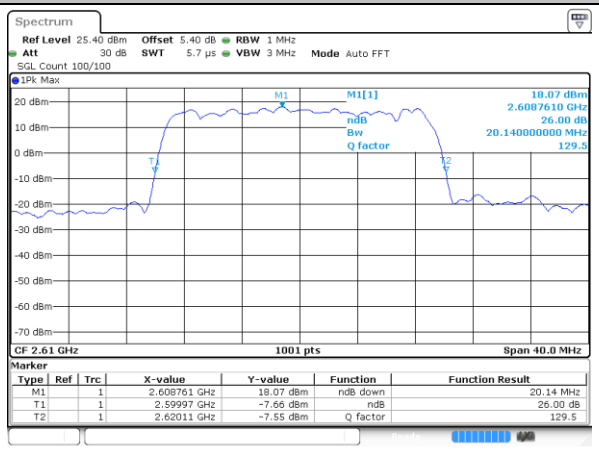
Middle Channel / 20MHz / QPSK



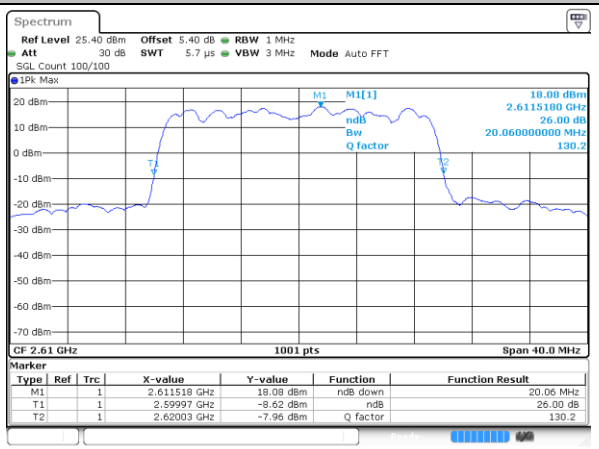
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

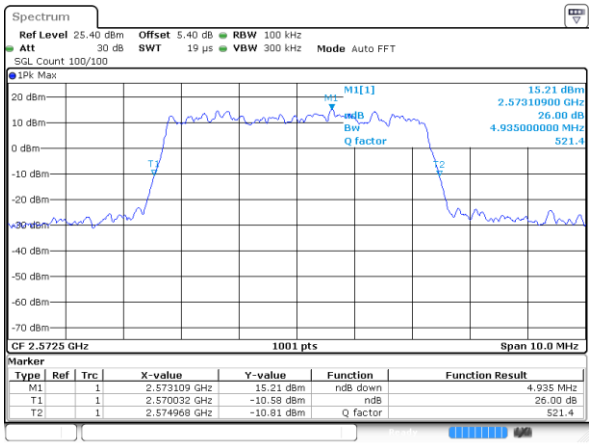


Highest Channel / 20MHz / 16QAM

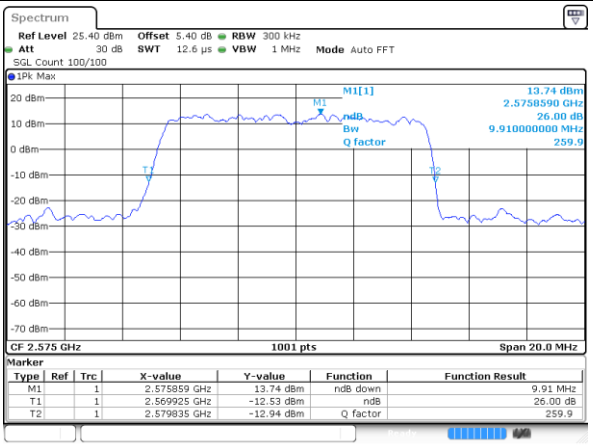


LTE Band 38

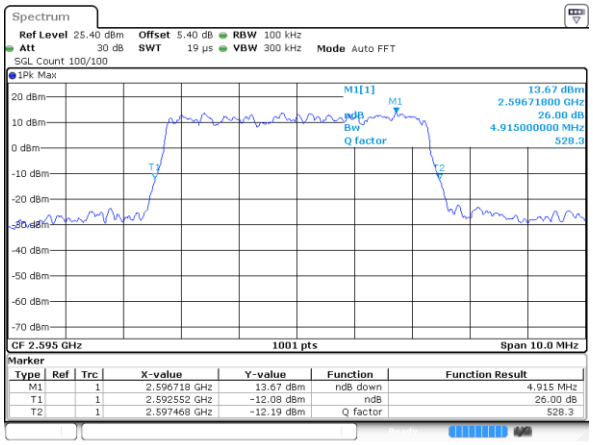
Lowest Channel / 5MHz / 64QAM



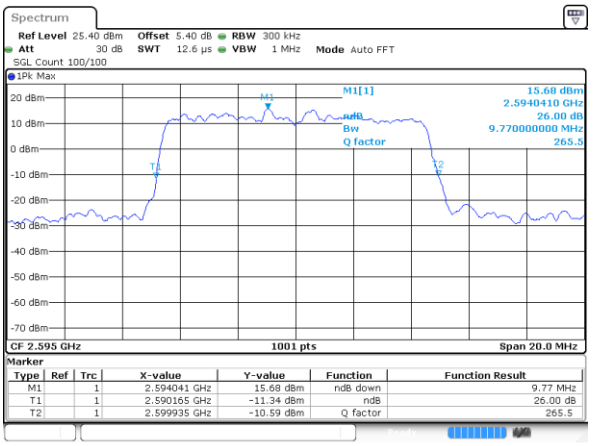
Lowest Channel / 10MHz / 64QAM



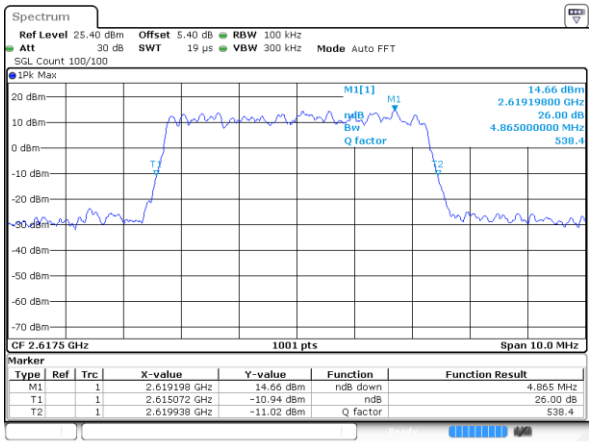
Middle Channel / 5MHz / 64QAM



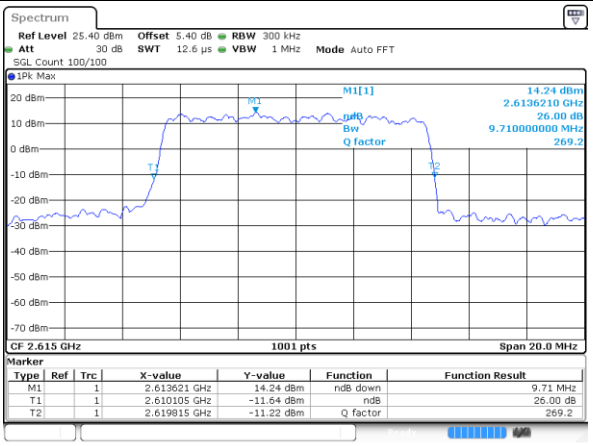
Middle Channel /10MHz / 64QAM



Highest Channel /5MHz / 64QAM

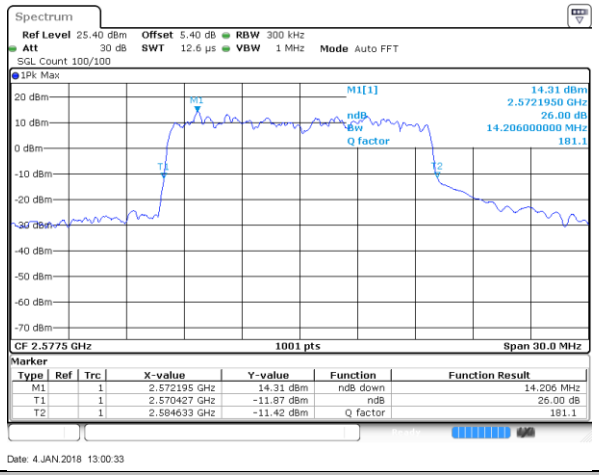


Highest Channel /10MHz / 64QAM

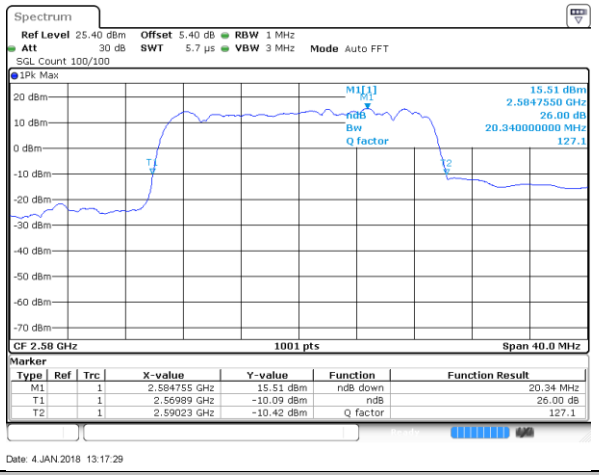


LTE Band 38

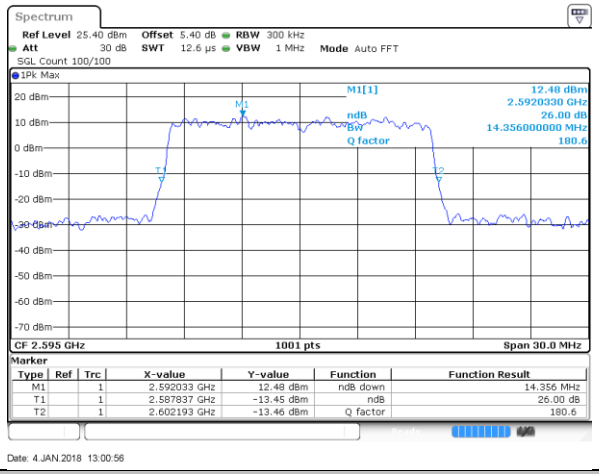
Lowest Channel / 15MHz / 64QAM



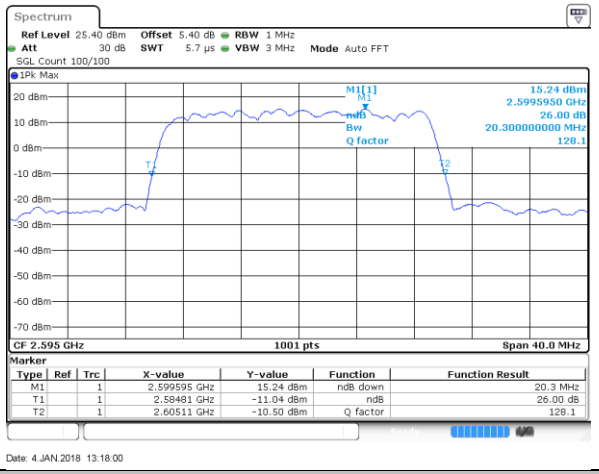
Lowest Channel / 20MHz / 64QAM



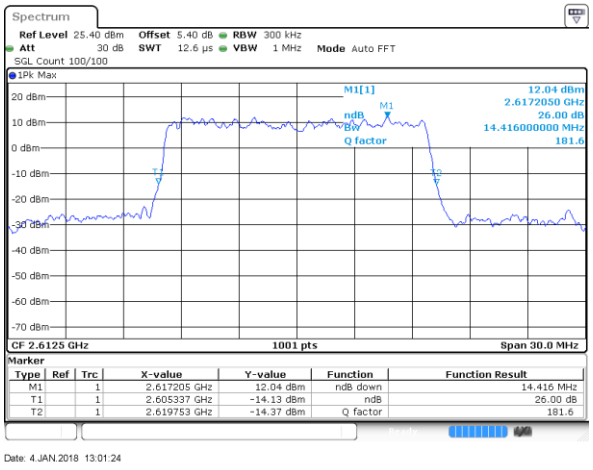
Middle Channel / 15MHz / 64QAM



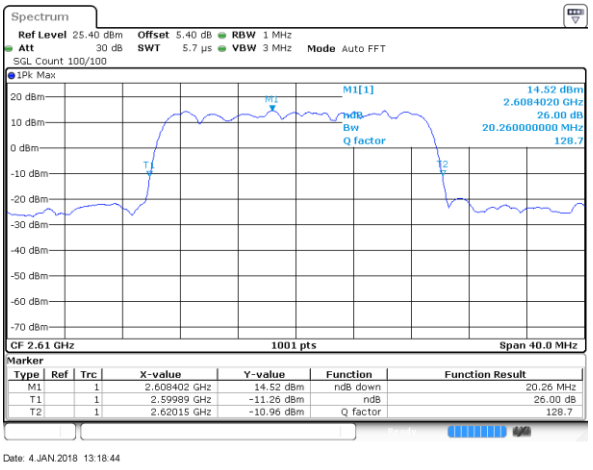
Middle Channel /20MHz / 64QAM



Highest Channel /15MHz / 64QAM

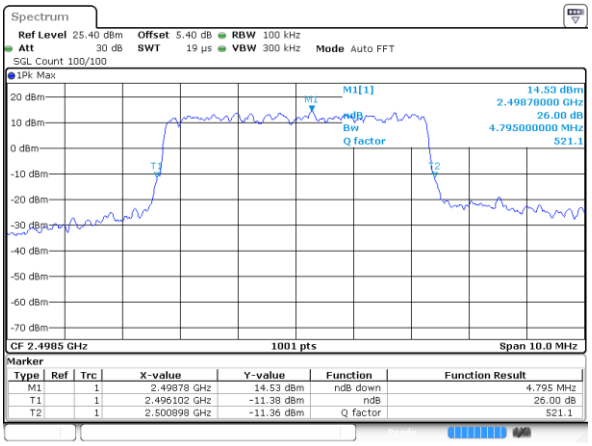


Highest Channel /20MHz / 64QAM

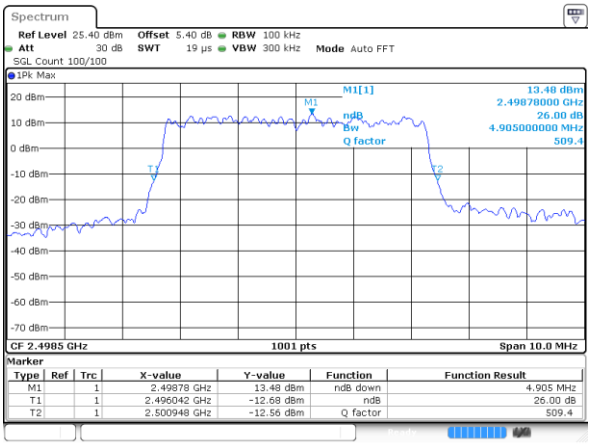


LTE Band 41

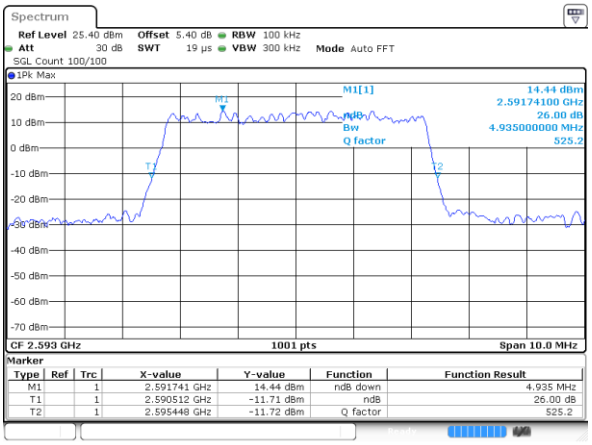
Lowest Channel / 5MHz / QPSK



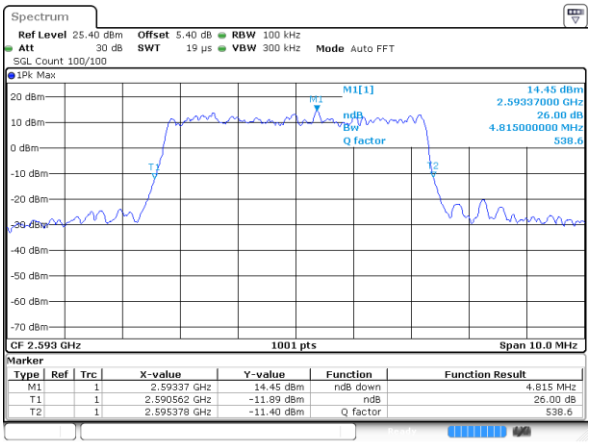
Lowest Channel / 5MHz / 16QAM



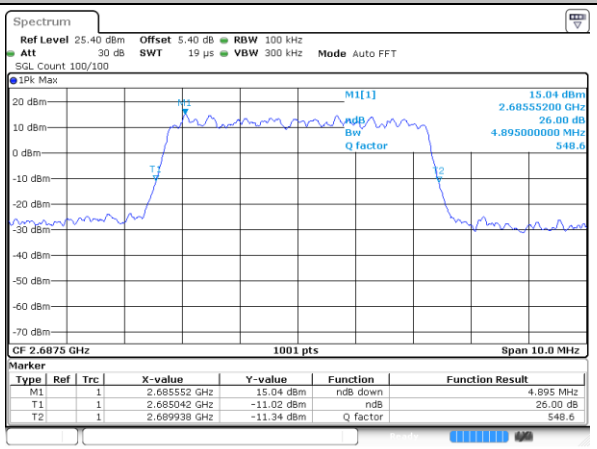
Middle Channel / 5MHz / QPSK



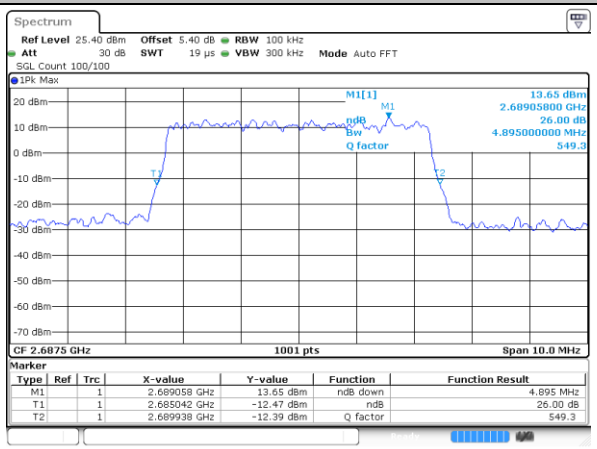
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

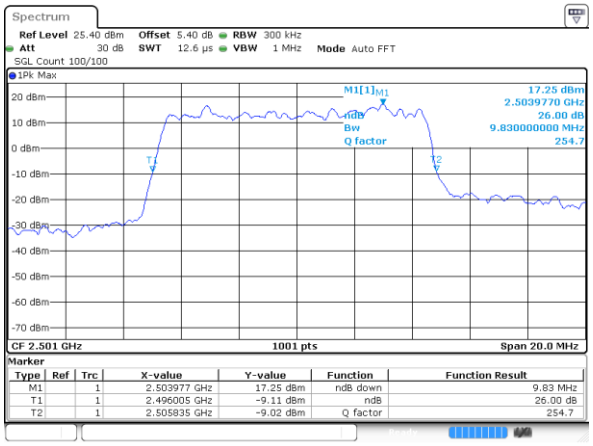


Highest Channel / 5MHz / 16QAM

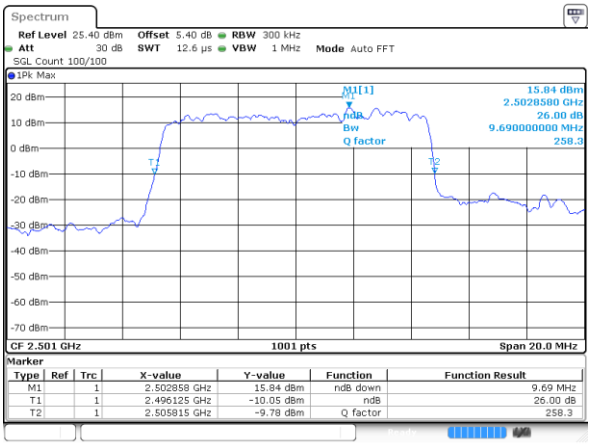


LTE Band 41

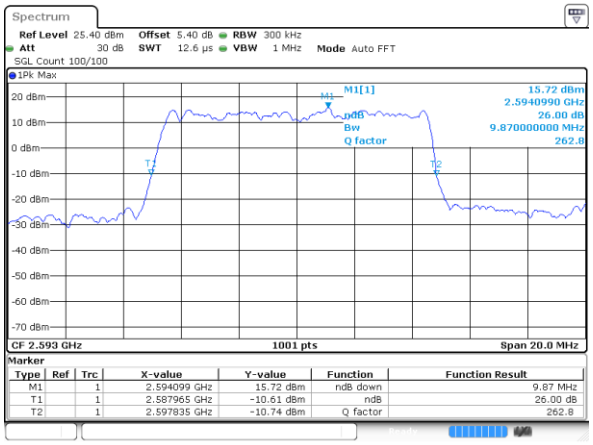
Lowest Channel / 10MHz / QPSK



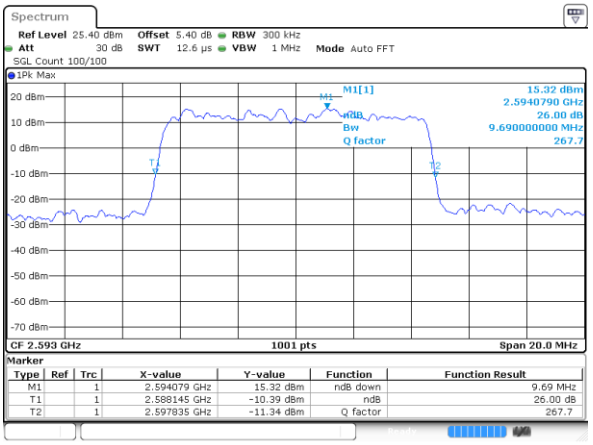
Lowest Channel / 10MHz / 16QAM



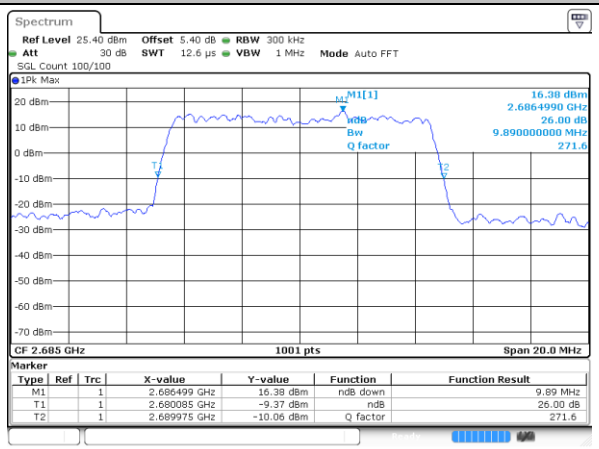
Middle Channel / 10MHz / QPSK



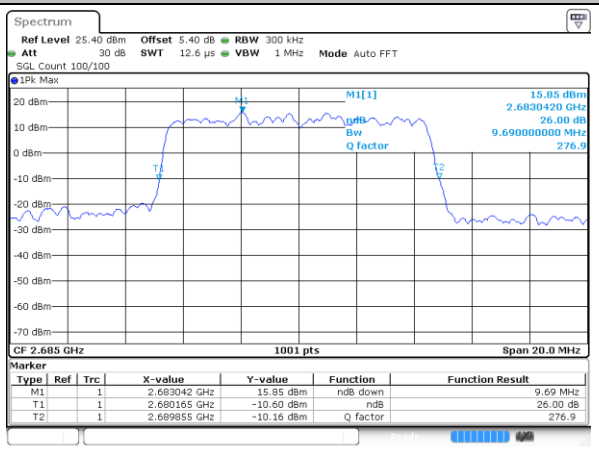
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

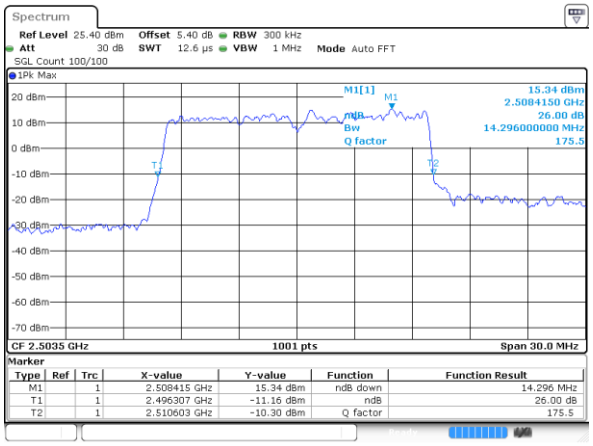


Highest Channel / 10MHz / 16QAM

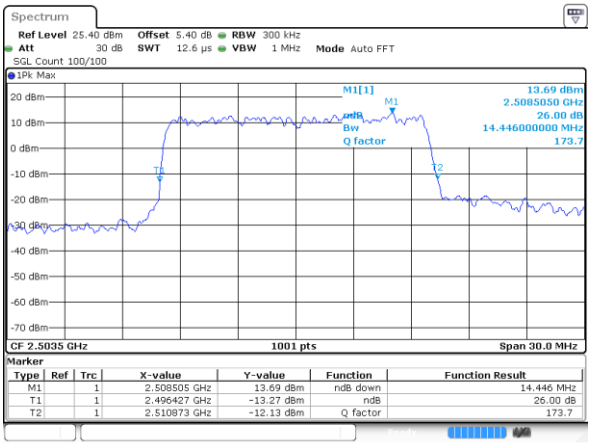


LTE Band 41

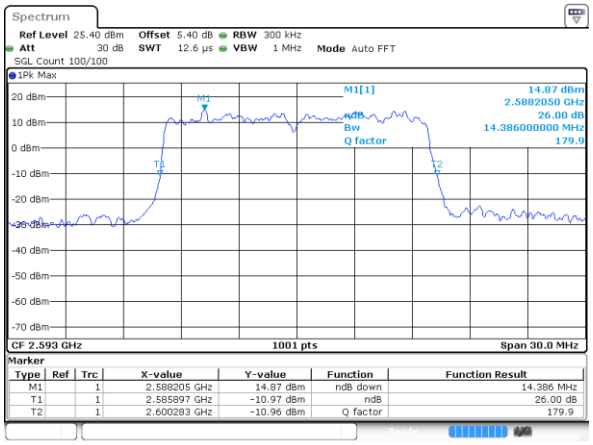
Lowest Channel / 15MHz / QPSK



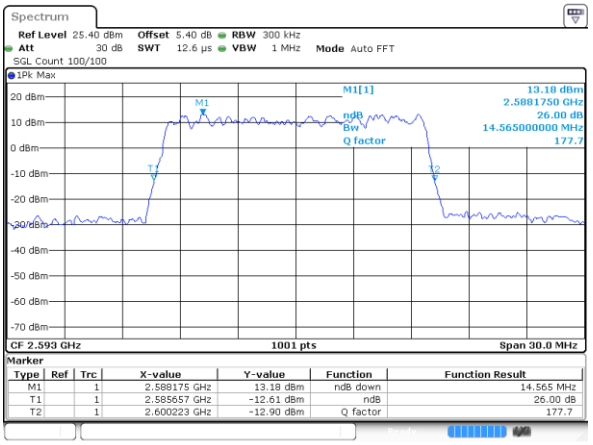
Lowest Channel / 15MHz / 16QAM



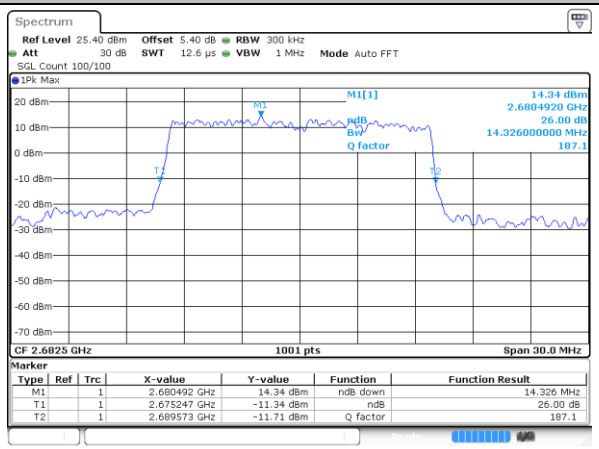
Middle Channel / 15MHz / QPSK



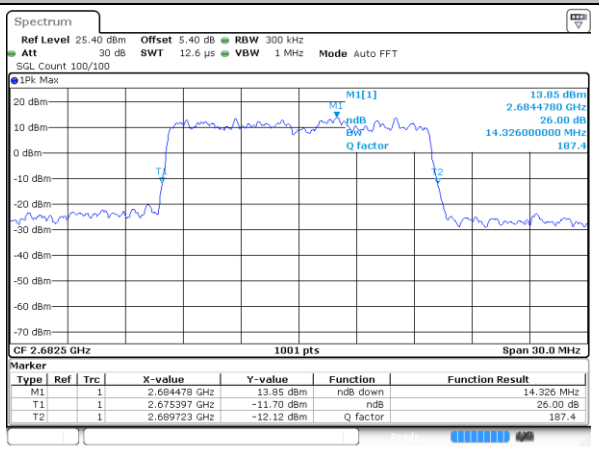
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

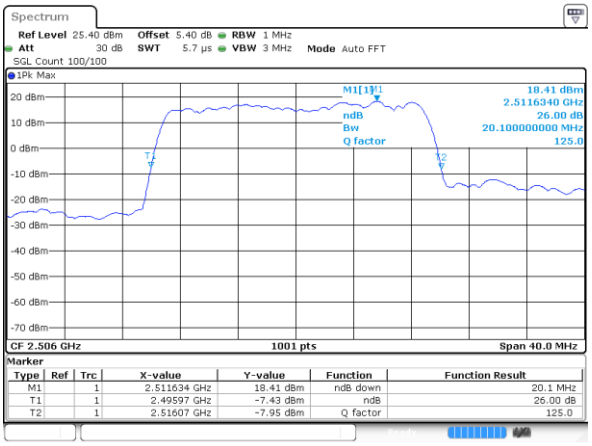


Highest Channel / 15MHz / 16QAM

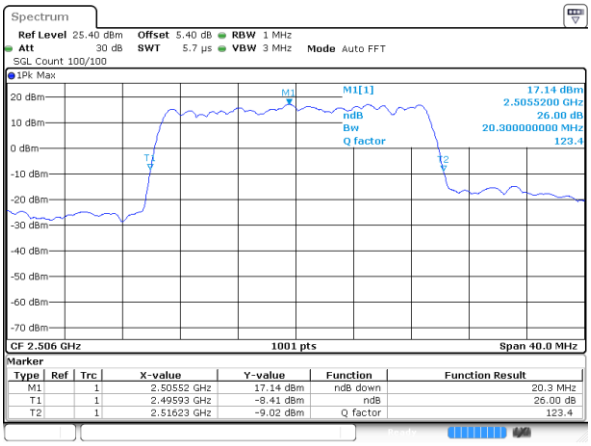


LTE Band 41

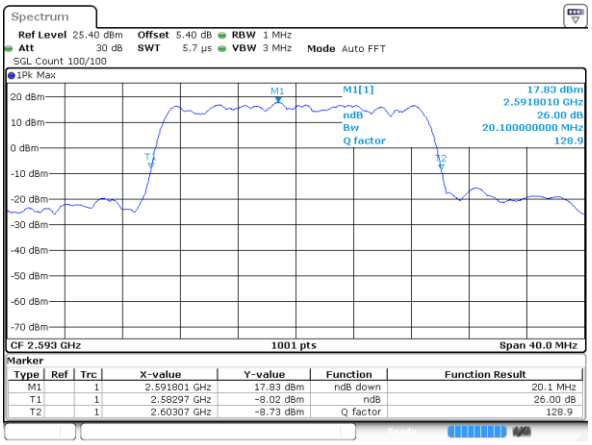
Lowest Channel / 20MHz / QPSK



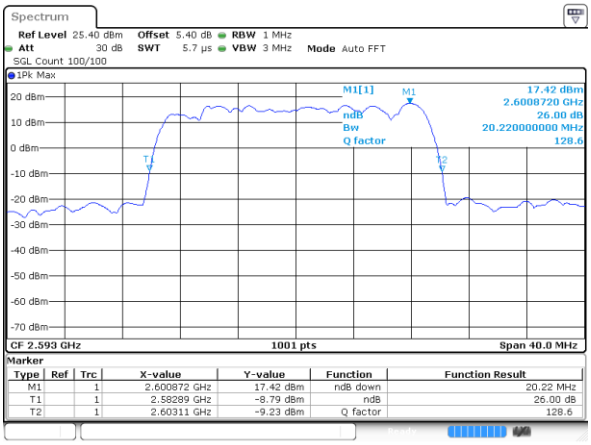
Lowest Channel / 20MHz / 16QAM



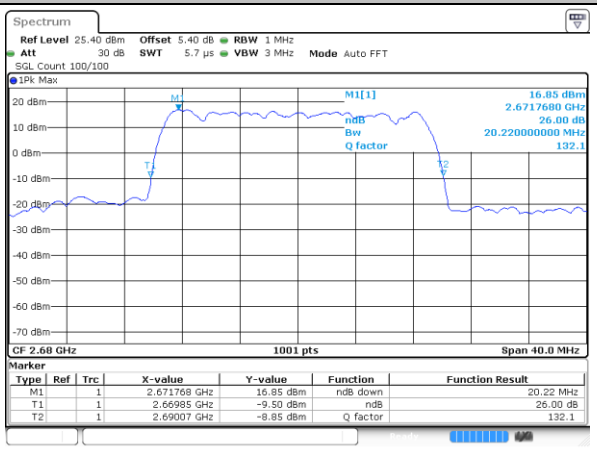
Middle Channel / 20MHz / QPSK



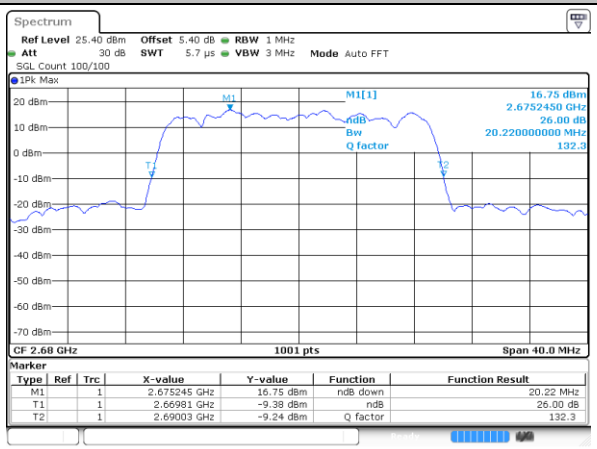
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

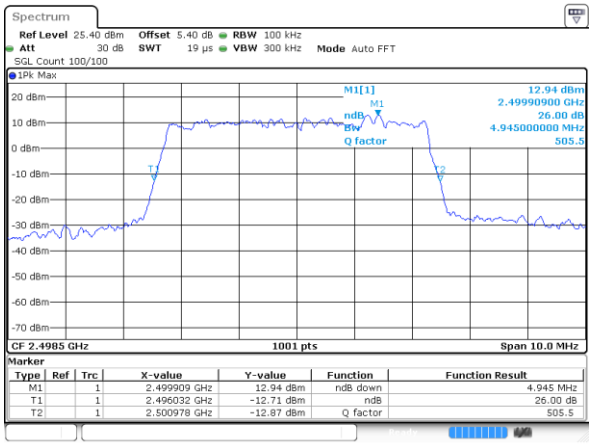


Highest Channel / 20MHz / 16QAM

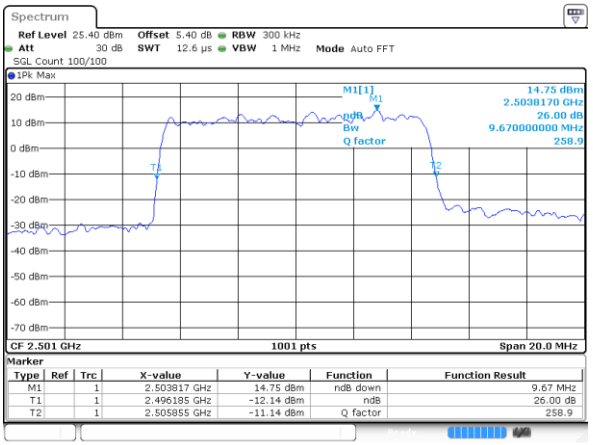


LTE Band 41

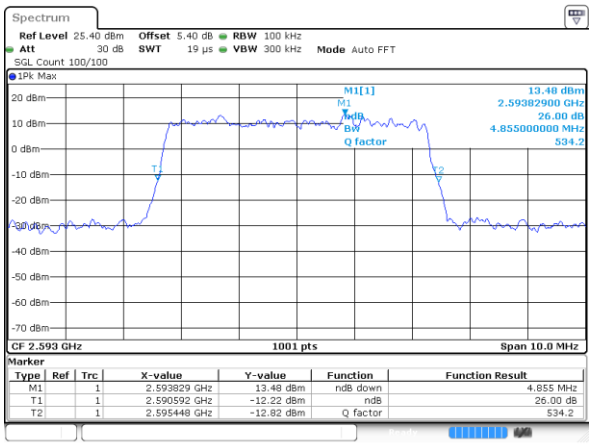
Lowest Channel / 5MHz / 64QAM



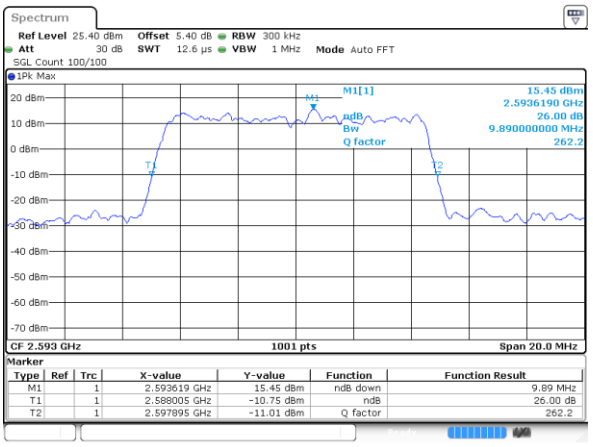
Lowest Channel / 10MHz / 64QAM



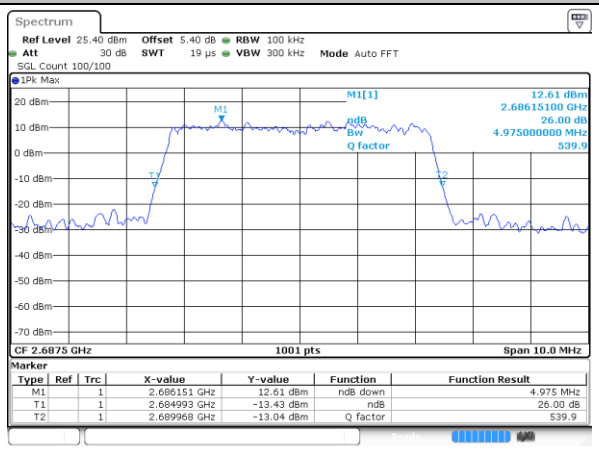
Middle Channel / 5MHz / 64QAM



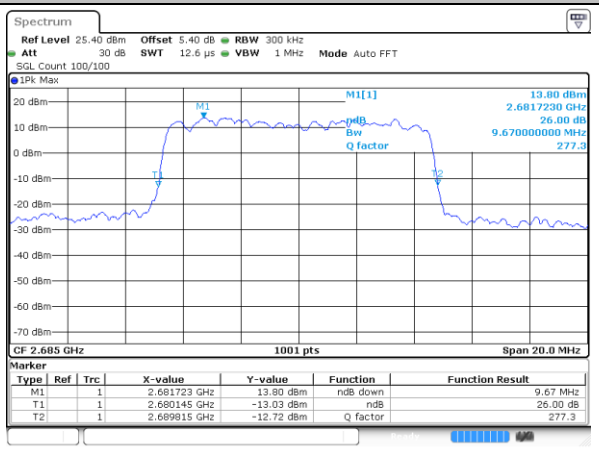
Middle Channel /10MHz / 64QAM



Highest Channel /5MHz / 64QAM

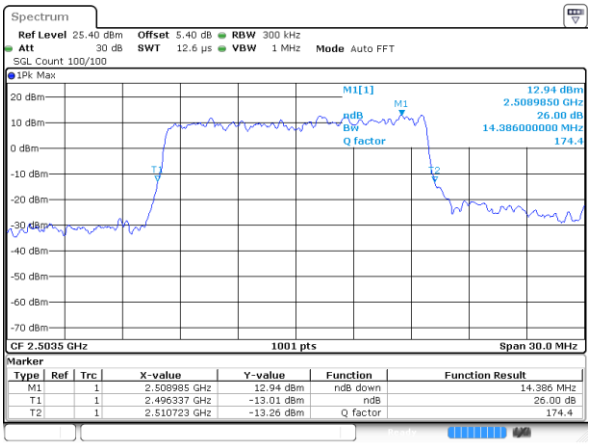


Highest Channel /10MHz / 64QAM

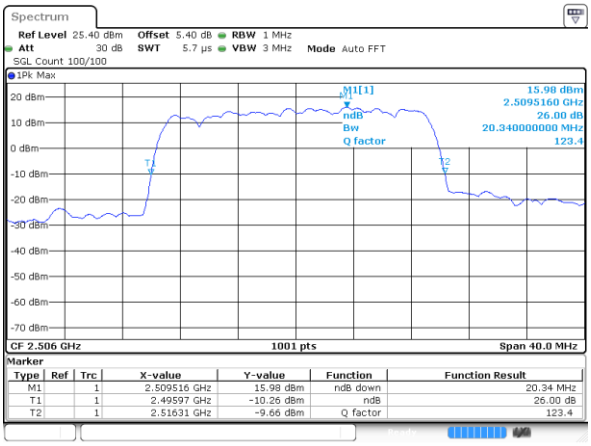


LTE Band 41

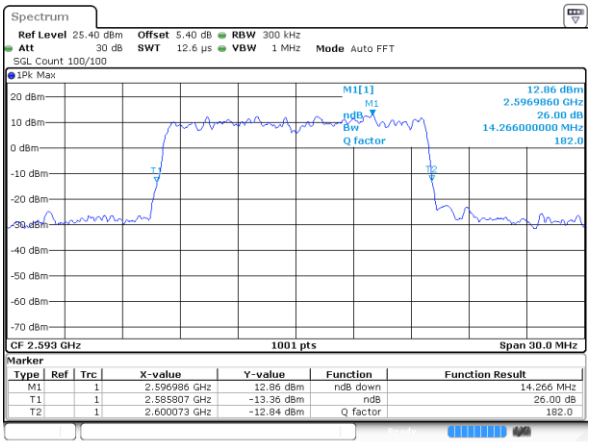
Lowest Channel / 15MHz / 64QAM



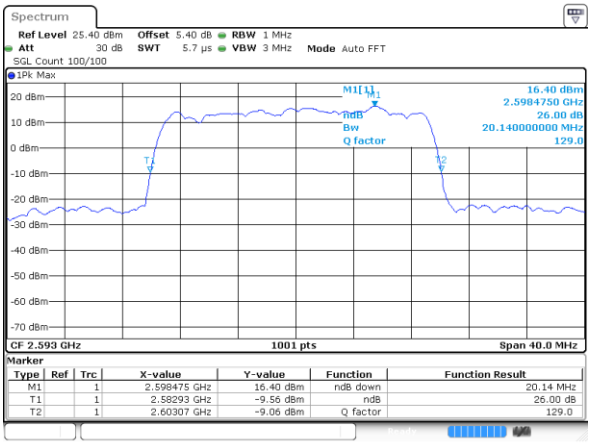
Lowest Channel / 20MHz / 64QAM



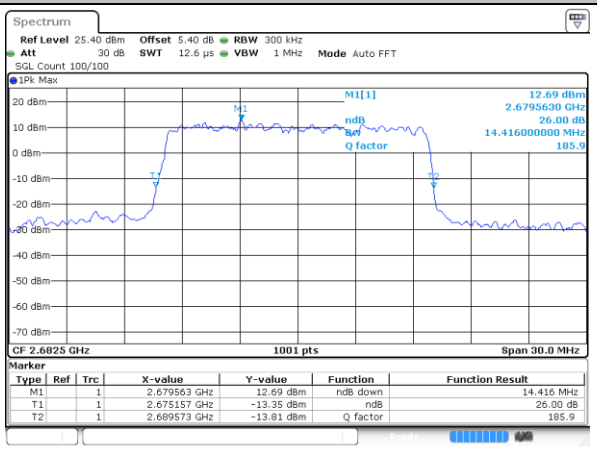
Middle Channel / 15MHz / 64QAM



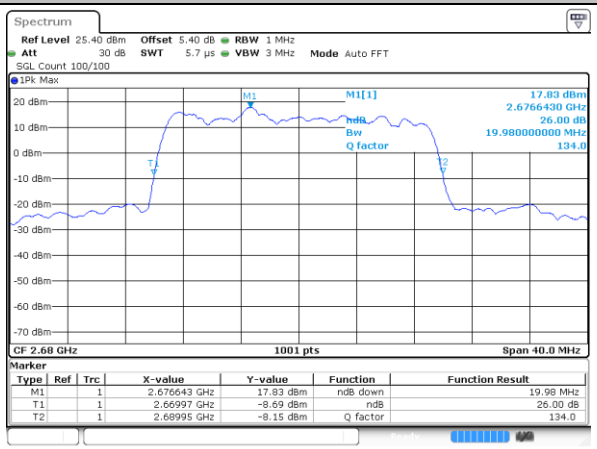
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM

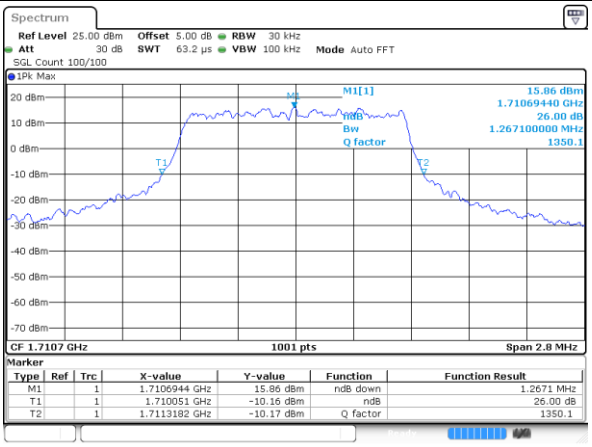


Highest Channel / 20MHz / 64QAM

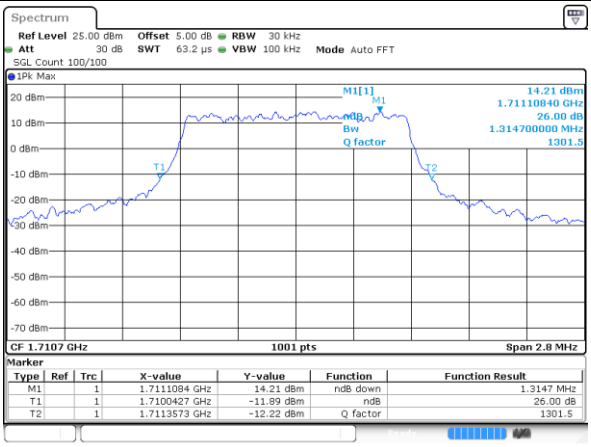


LTE Band 66

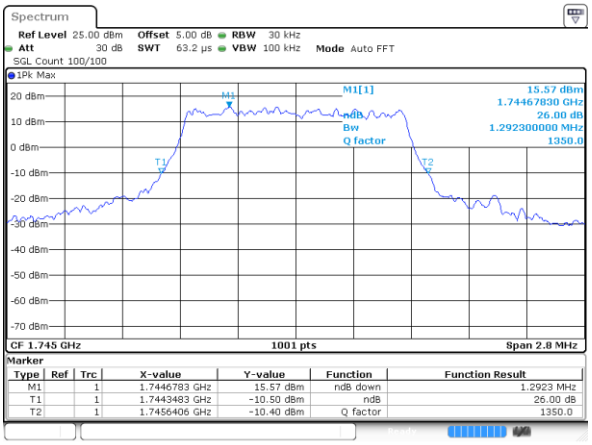
Lowest Channel / 1.4MHz / QPSK



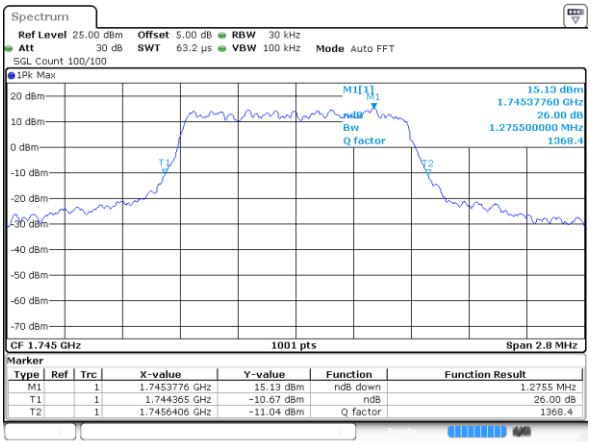
Lowest Channel / 1.4MHz / 16QAM



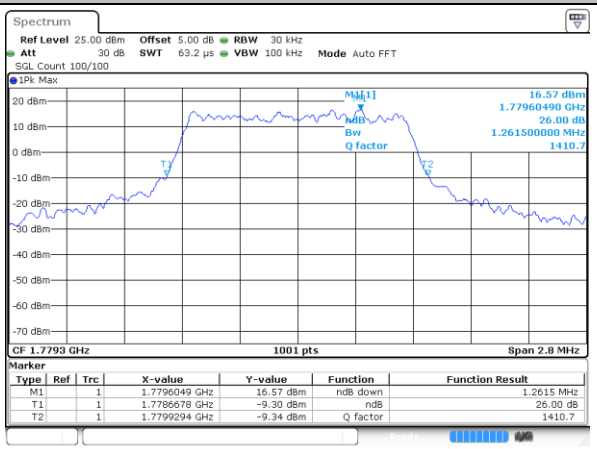
Middle Channel / 1.4MHz / QPSK



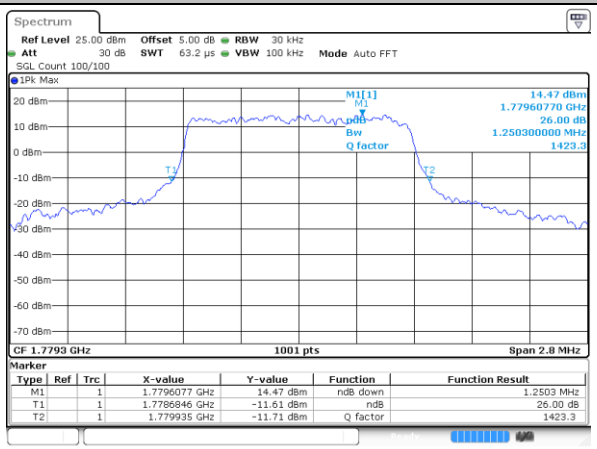
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

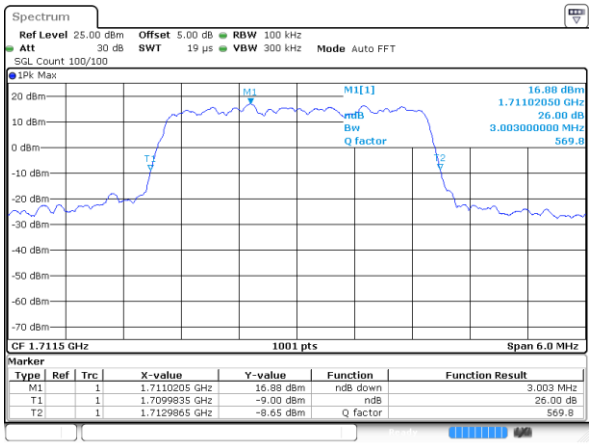


Highest Channel / 1.4MHz / 16QAM

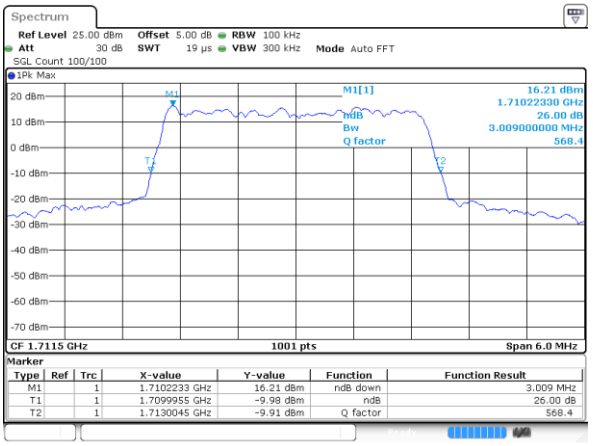


LTE Band 66

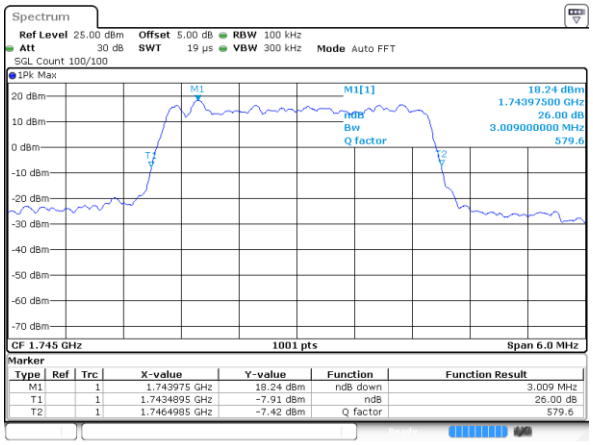
Lowest Channel / 3MHz / QPSK



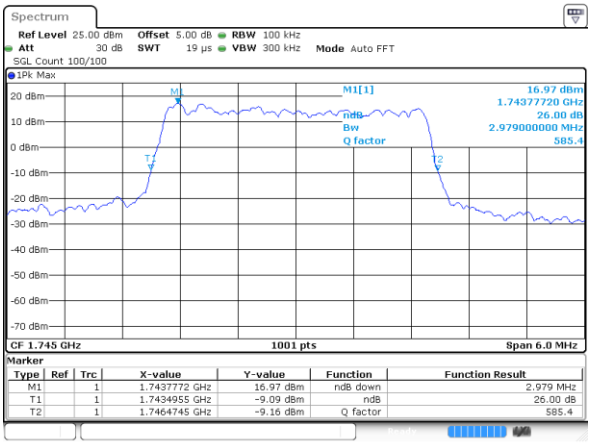
Lowest Channel / 3MHz / 16QAM



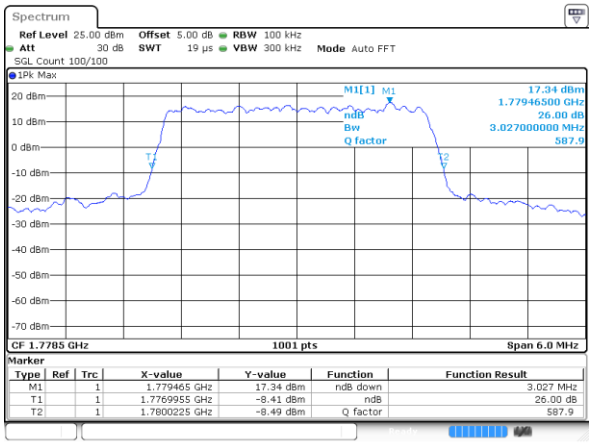
Middle Channel / 3MHz / QPSK



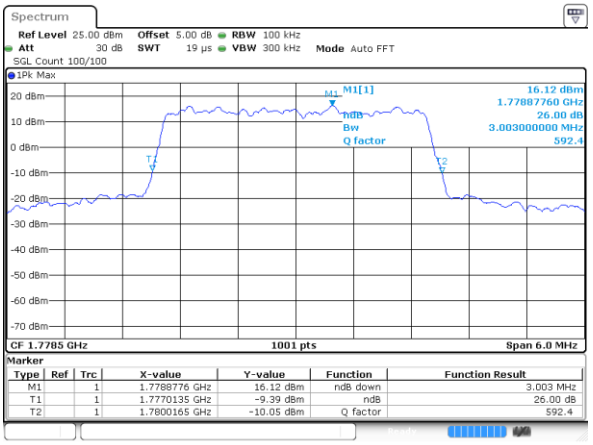
Middle Channel /3MHz / 16QAM



Highest Channel /3MHz / QPSK

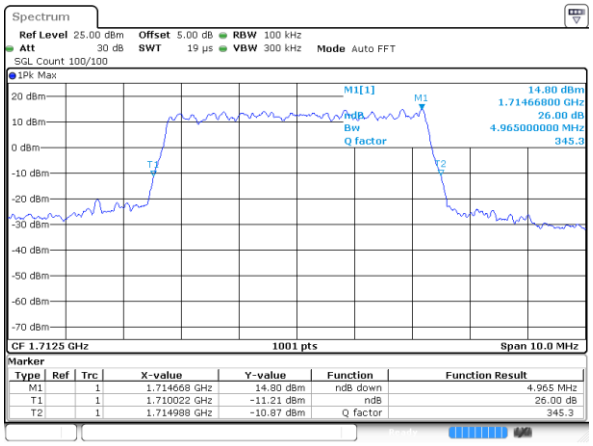


Highest Channel /3MHz / 16QAM

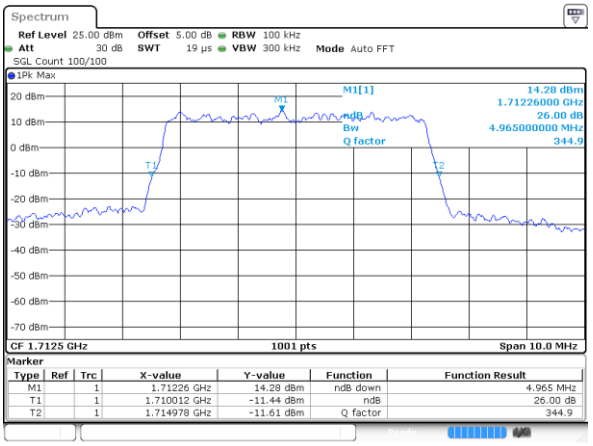


LTE Band 66

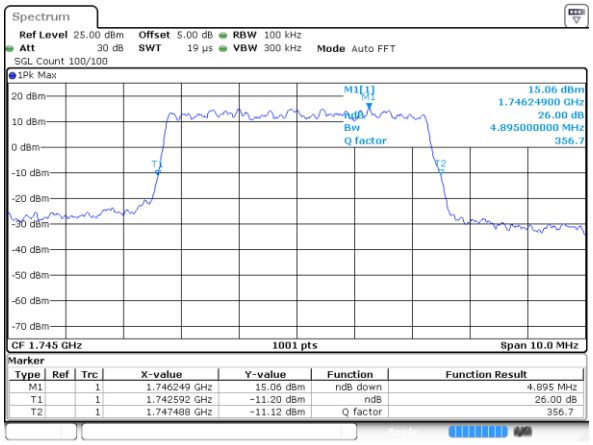
Lowest Channel / 5MHz / QPSK



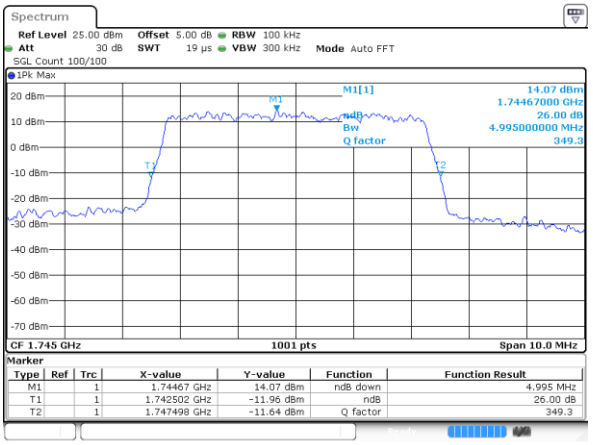
Lowest Channel / 5MHz / 16QAM



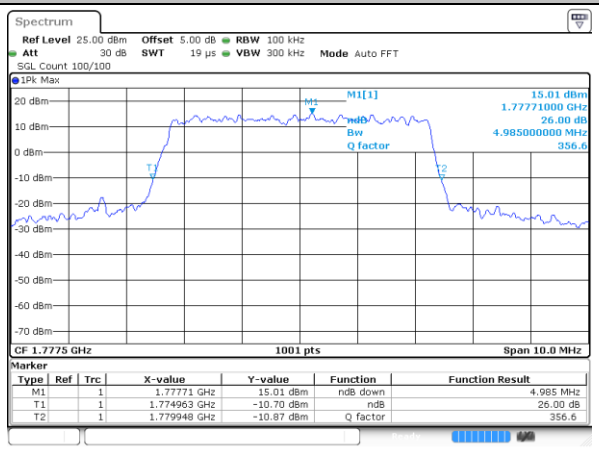
Middle Channel / 5MHz / QPSK



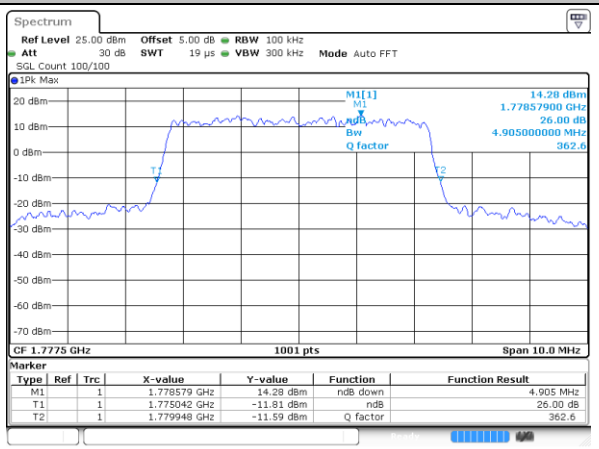
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

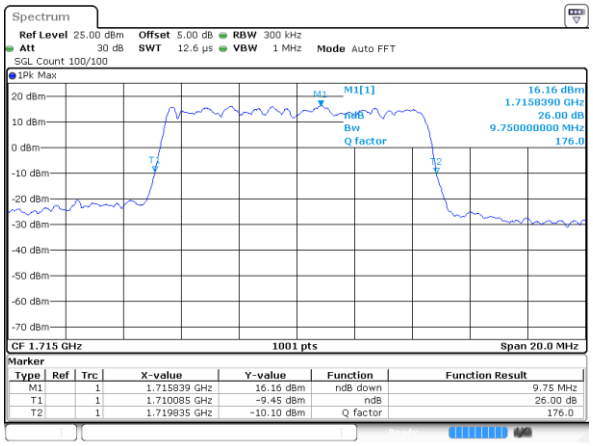


Highest Channel / 5MHz / 16QAM



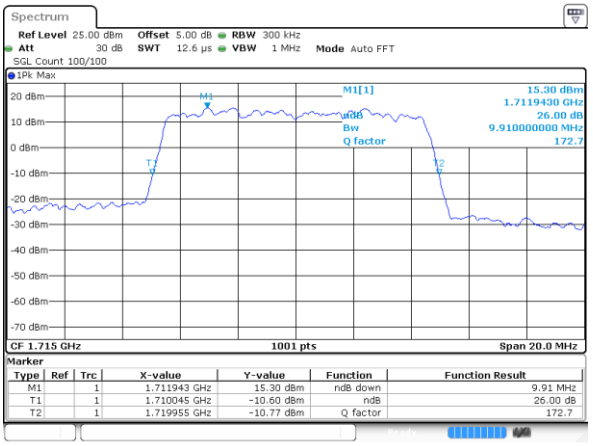
LTE Band 66

Lowest Channel / 10MHz / QPSK



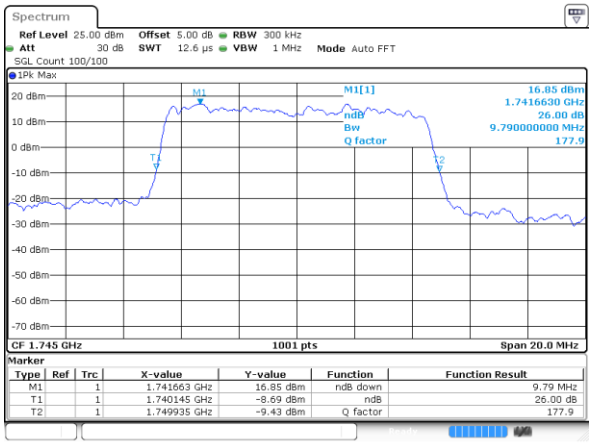
Date: 5.JAN.2018 09:09:52

Lowest Channel / 10MHz / 16QAM



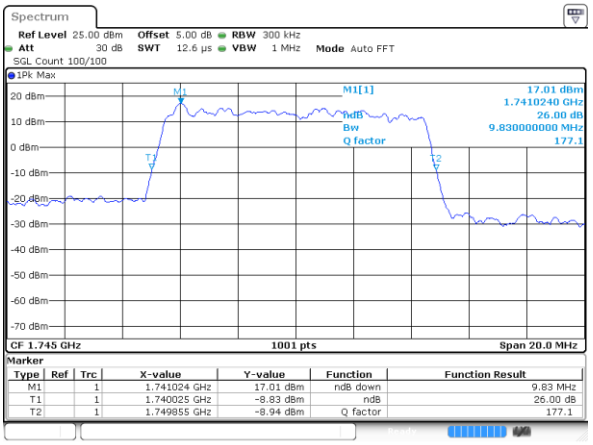
Date: 5.JAN.2018 09:10:11

Middle Channel / 10MHz / QPSK



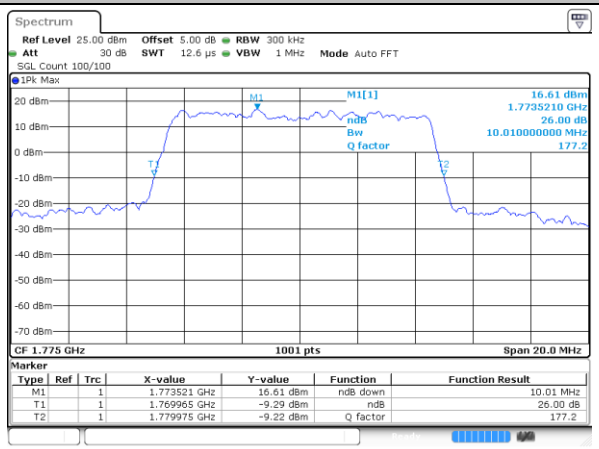
Date: 5.JAN.2018 09:13:42

Middle Channel / 10MHz / 16QAM



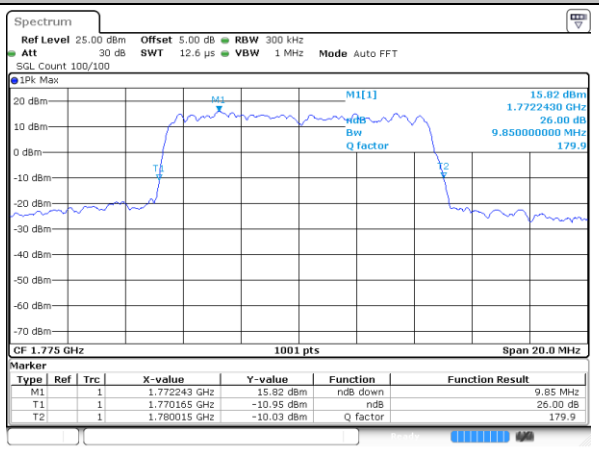
Date: 5.JAN.2018 09:14:07

Highest Channel / 10MHz / QPSK



Date: 5.JAN.2018 09:17:43

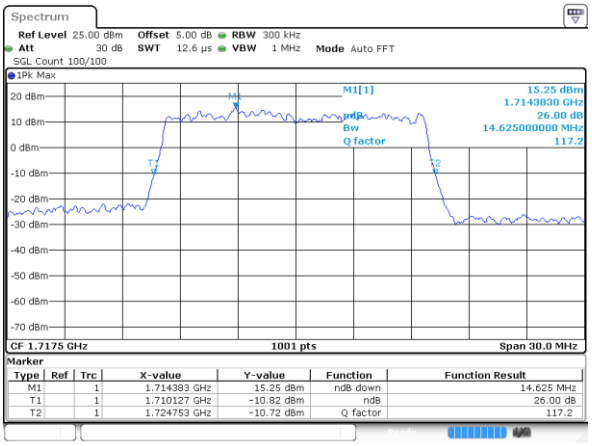
Highest Channel / 10MHz / 16QAM



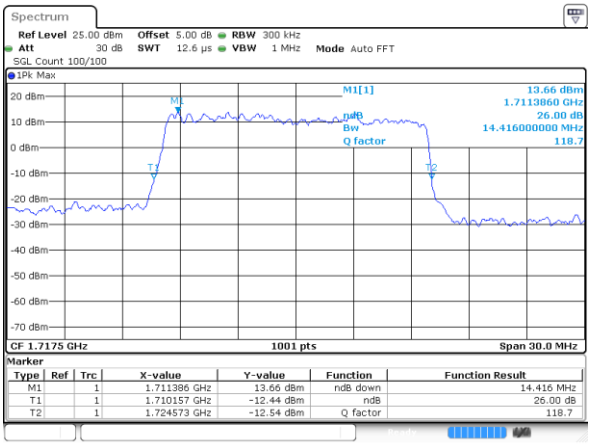
Date: 5.JAN.2018 09:18:06

LTE Band 66

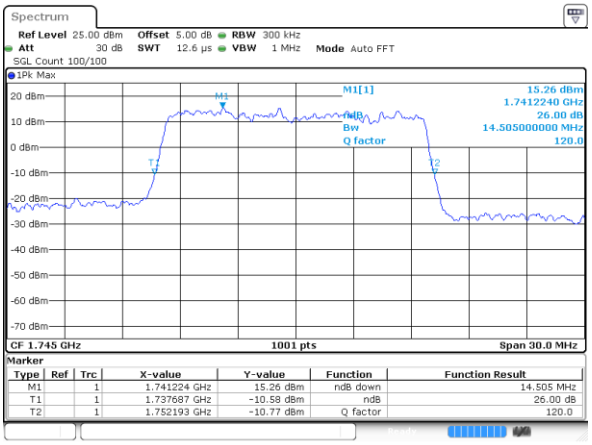
Lowest Channel / 15MHz / QPSK



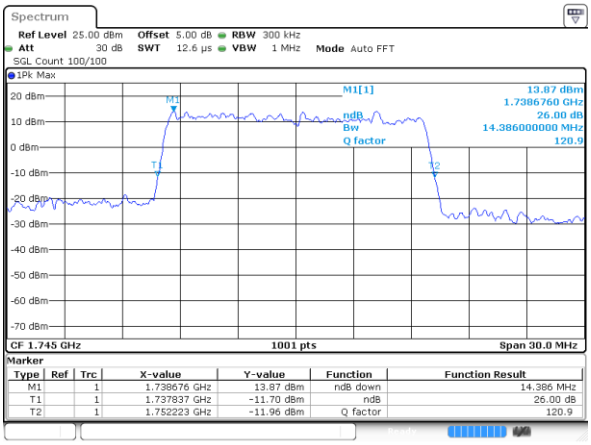
Lowest Channel / 15MHz / 16QAM



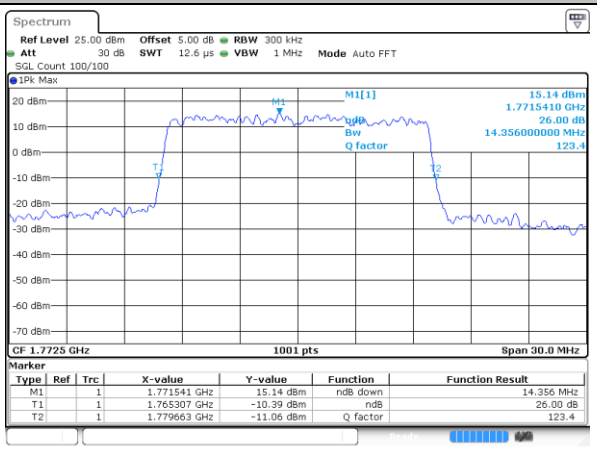
Middle Channel / 15MHz / QPSK



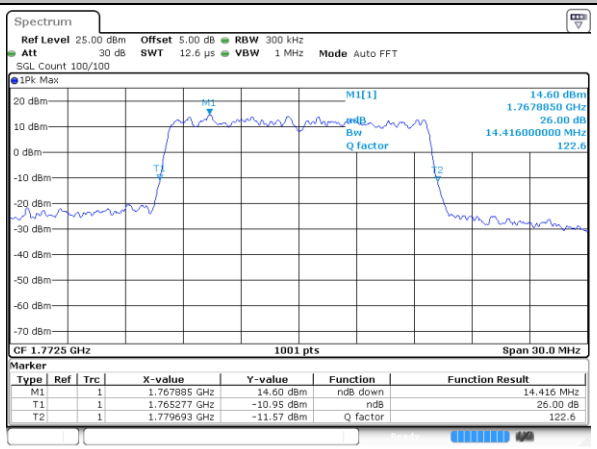
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

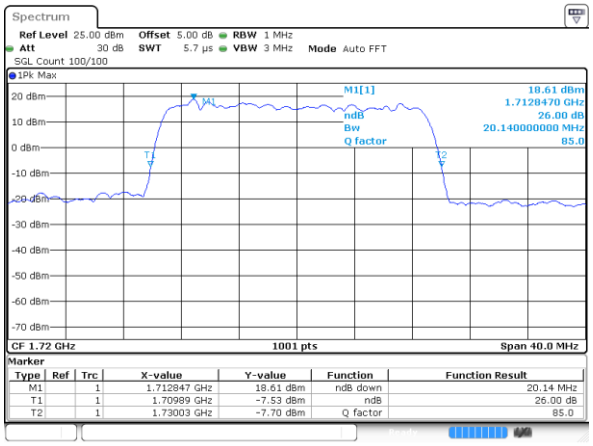


Highest Channel / 15MHz / 16QAM



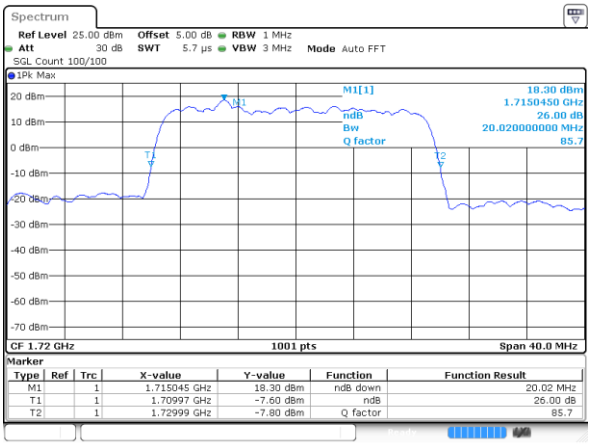
LTE Band 66

Lowest Channel / 20MHz / QPSK



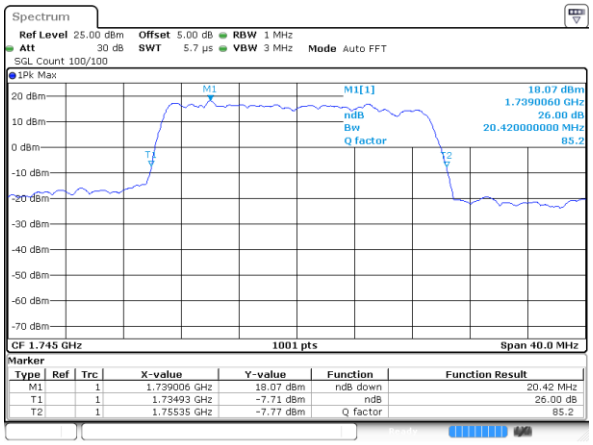
Date: 5.JAN.2018 09:41:56

Lowest Channel / 20MHz / 16QAM



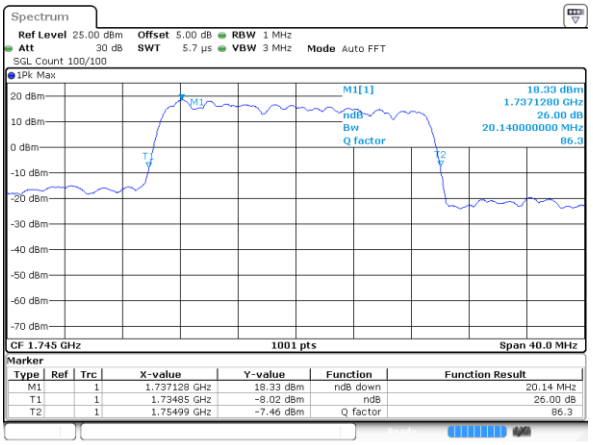
Date: 5.JAN.2018 09:41:26

Middle Channel / 20MHz / QPSK



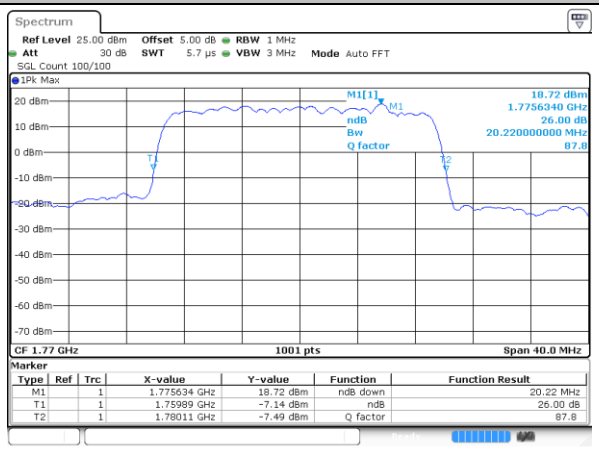
Date: 5.JAN.2018 09:50:23

Middle Channel / 20MHz / 16QAM



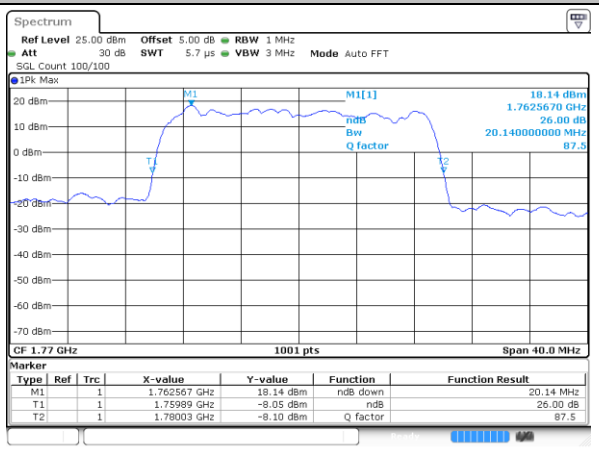
Date: 5.JAN.2018 09:49:38

Highest Channel / 20MHz / QPSK



Date: 5.JAN.2018 09:54:18

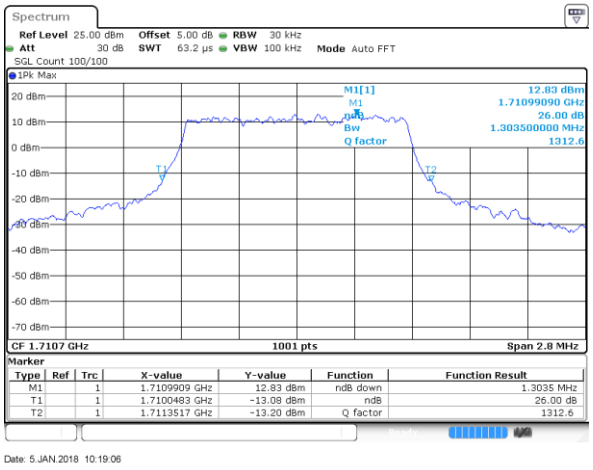
Highest Channel / 20MHz / 16QAM



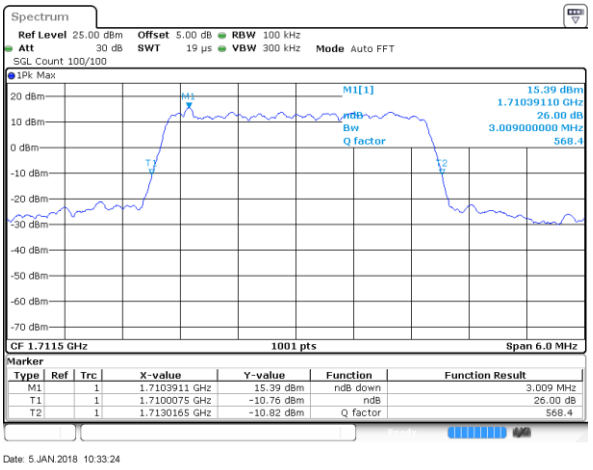
Date: 5.JAN.2018 09:57:17

LTE Band 66

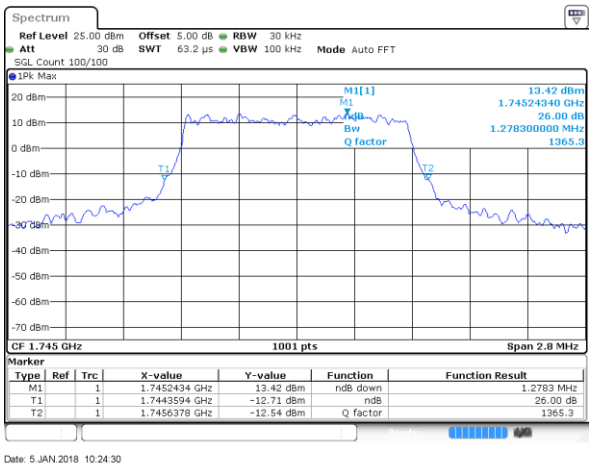
Lowest Channel / 1.4MHz / 64QAM



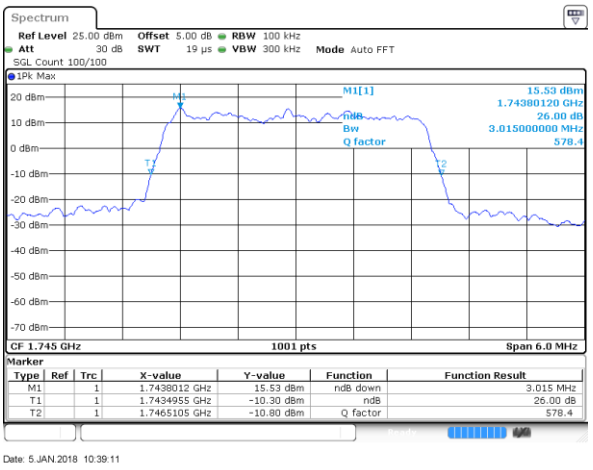
Lowest Channel / 3MHz / 64QAM



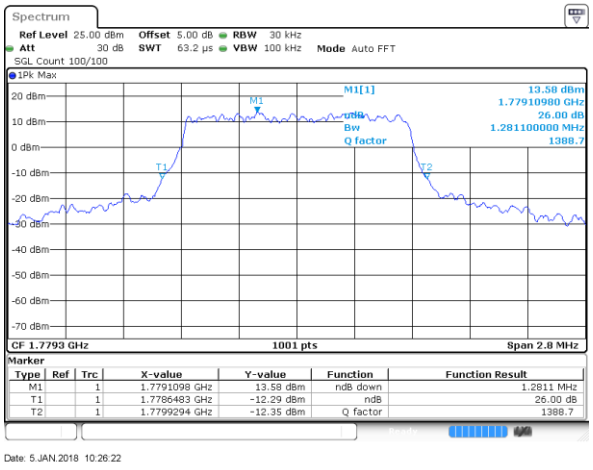
Middle Channel / 1.4MHz / 64QAM



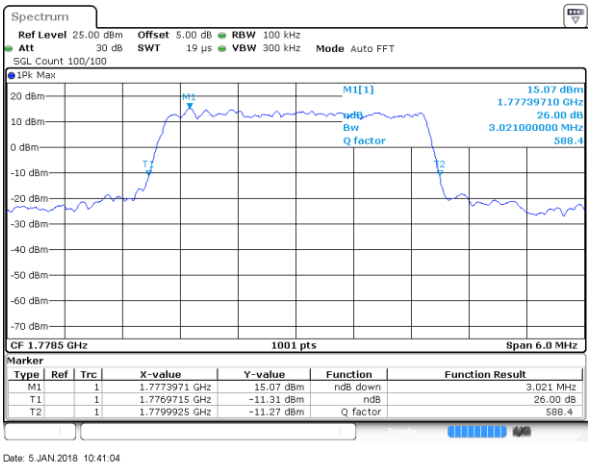
Middle Channel /3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM

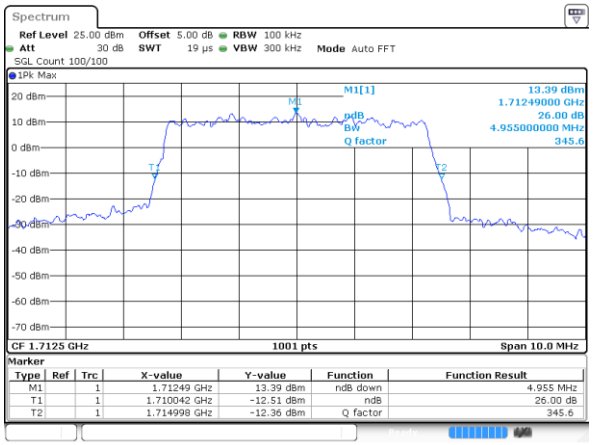


Highest Channel /3MHz / 64QAM

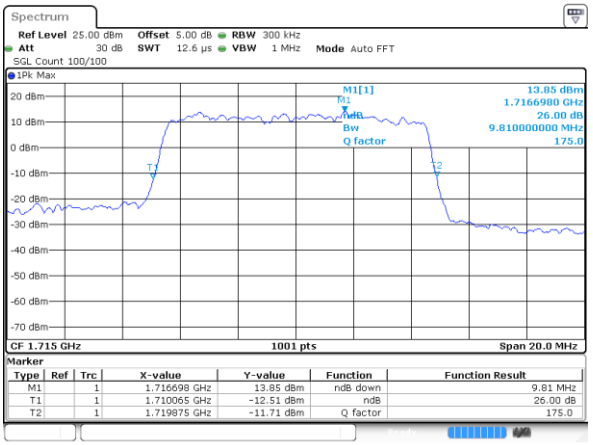


LTE Band 66

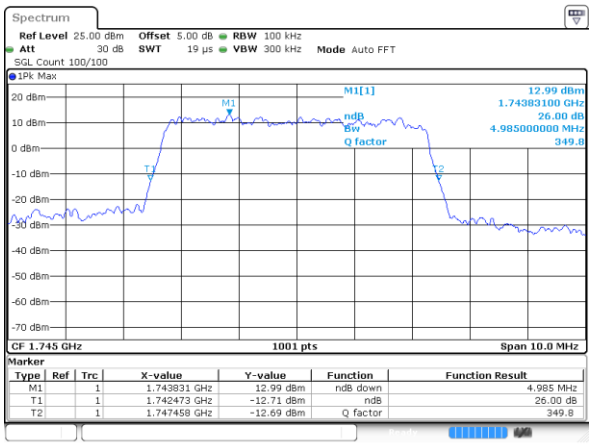
Lowest Channel / 5MHz / 64QAM



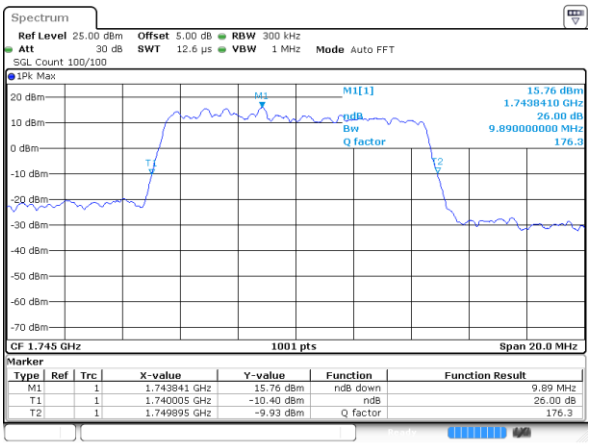
Lowest Channel / 10MHz / 64QAM



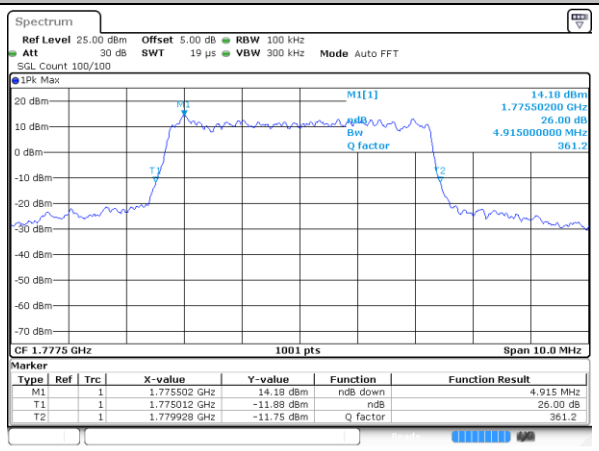
Middle Channel / 5MHz / 64QAM



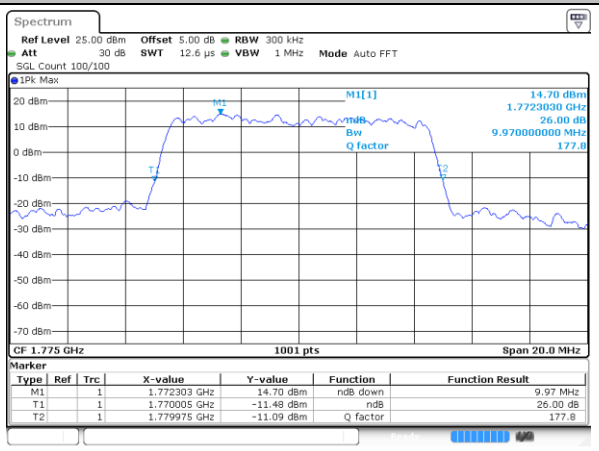
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

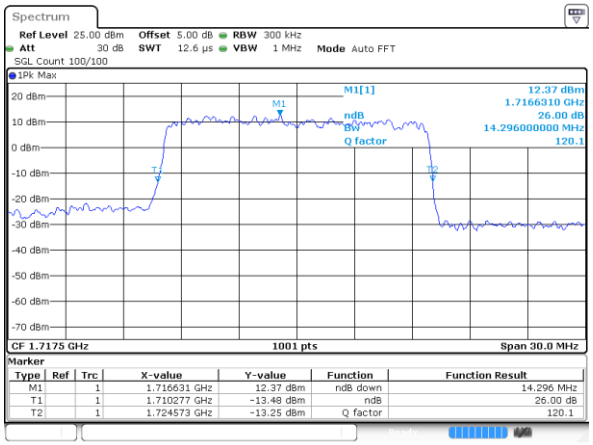


Highest Channel / 10MHz / 64QAM

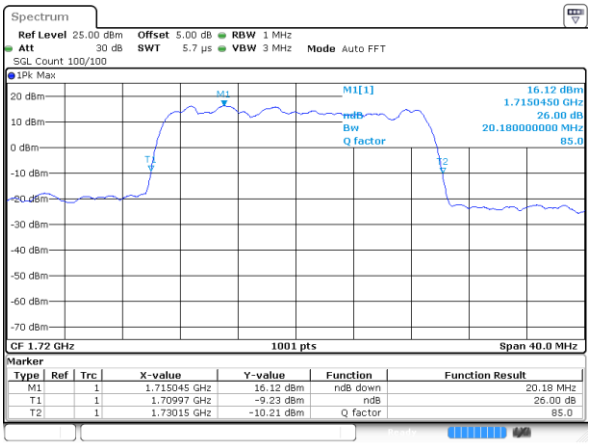


LTE Band 66

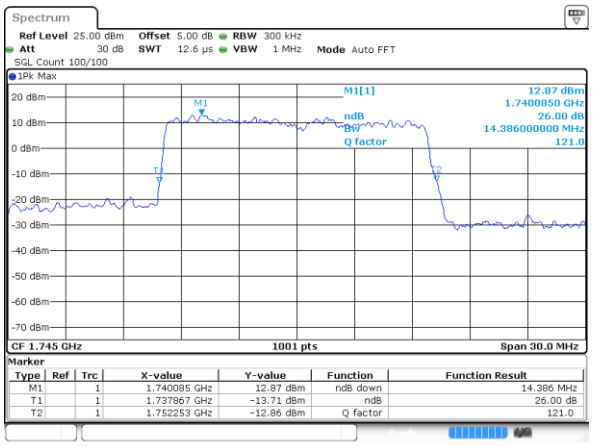
Lowest Channel / 15MHz / 64QAM



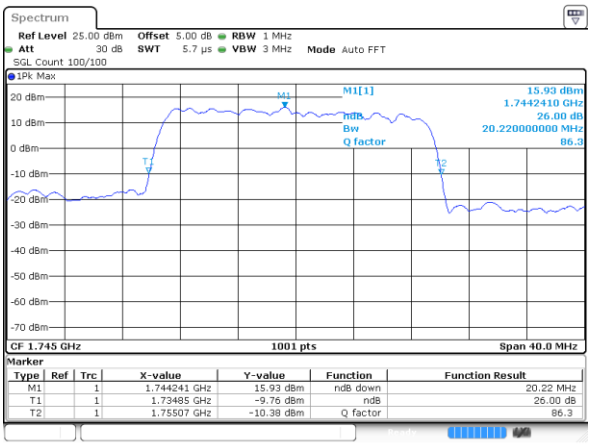
Lowest Channel / 20MHz / 64QAM



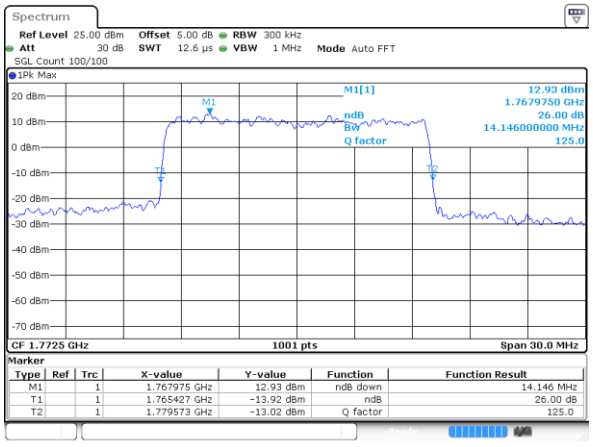
Middle Channel / 15MHz / 64QAM



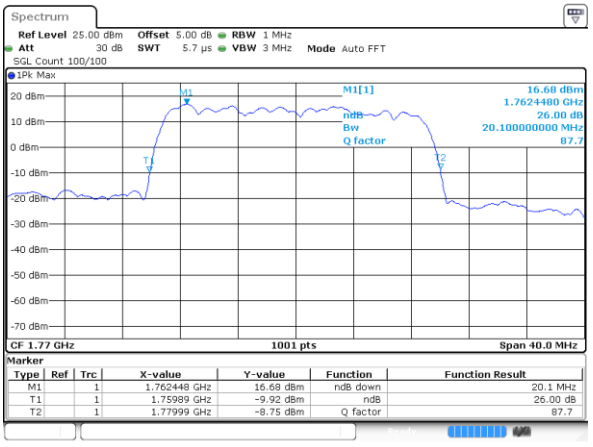
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



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	1.10	1.10	2.72	2.70	4.50	4.51	9.05	9.05	13.46	13.52	18.26	18.54
Middle CH	1.09	1.09	2.72	2.74	4.47	4.49	9.05	9.07	13.46	13.49	18.50	18.50
Highest CH	1.09	1.09	2.72	2.72	4.49	4.48	9.01	9.01	13.49	13.46	18.30	18.54
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH	1.09	2.73	4.50	9.03	13.52	18.42						
Middle CH	1.09	2.72	4.51	9.07	13.46	18.54						
Highest CH	1.10	2.72	4.52	9.03	13.43	18.50						

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	1.10	2.72	2.72	4.49	4.50	9.15	9.03	13.46	13.40	18.38	18.46
Middle CH	1.09	1.09	2.72	2.73	4.50	4.49	9.03	9.03	13.46	13.46	18.38	18.38
Highest CH	1.09	1.10	2.71	2.71	4.50	4.45	9.05	9.03	13.46	13.43	18.30	18.50
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH	1.09	2.72	4.49	9.01	13.40	18.58						
Middle CH	1.10	2.73	4.50	9.01	13.46	18.26						
Highest CH	1.08	2.73	4.49	9.11	13.49	18.50						

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	1.10	1.09	2.72	2.76	4.50	4.51	9.03	9.05	1.09	2.72	4.50	9.03
Middle CH	1.09	1.10	2.72	2.72	4.49	4.49	9.03	8.99	1.09	2.71	4.51	9.07
Highest CH	1.09	1.09	2.70	2.72	4.50	4.50	9.03	9.03	1.10	2.73	4.49	9.05

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	4.51	4.51	9.11	9.01	13.55	13.49	18.42	18.54	4.49	8.99	13.43	18.38
Middle CH	4.50	4.50	9.05	9.03	13.40	13.52	18.30	18.42	4.46	9.01	13.43	18.46
Highest CH	4.47	4.48	9.01	8.99	13.40	13.49	18.34	18.38	4.50	8.95	13.46	18.42

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	2.73	2.73	4.50	4.50	9.01	8.99	1.09	2.72	4.49	9.03
Middle CH	1.10	1.09	2.72	2.71	4.49	4.49	8.99	8.97	1.09	2.72	4.48	9.13
Highest CH	1.09	1.10	2.74	2.73	4.49	4.49	9.05	9.03	1.10	2.73	4.50	9.01

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	5MHz		10MHz		5MHz	10MHz						
Mod.	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM						
Lowest CH	4.49	4.48	-	-	4.51	-						
Middle CH	4.49	4.49	9.07	9.01	4.47	9.03						
Highest CH	4.51	4.51	-	-	4.49	-						

Mode	LTE Band 17 : 99%OBW(MHz)											
BW	5MHz		10MHz		5MHz	10MHz						
Mod.	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM						
Lowest CH	4.50	4.49	9.03	9.01	4.47	8.99						
Middle CH	4.49	4.48	9.01	8.95	4.49	8.99						
Highest CH	4.49	4.48	9.03	8.99	4.47	9.01						

Mode	LTE Band 25 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.72	4.50	4.49	9.03	9.03	13.46	13.46	18.30	18.34
Middle CH	1.09	1.10	2.73	2.71	4.48	4.50	9.05	9.01	13.46	13.43	18.46	18.50
Highest CH	1.11	1.09	2.70	2.73	4.48	4.49	8.97	8.93	13.43	13.43	18.30	18.38
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH	1.09	2.74	4.50	9.07	13.46	18.38						
Middle CH	1.09	2.72	4.51	9.07	13.43	18.46						
Highest CH	1.09	2.71	4.50	9.10	13.46	18.58						

Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		CH26765	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.73	4.50	4.49	9.03	9.05	13.58	13.43	13.37	13.40
Middle CH	1.10	1.09	2.70	2.72	4.50	4.50	9.03	8.99	13.43	13.43	-	-
Highest CH	1.09	1.09	2.74	2.74	4.50	4.48	9.07	9.05	13.43	13.52	-	-
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	CH26765						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH	1.09	2.72	4.50	9.05	13.43	13.43						
Middle CH	1.10	2.73	4.49	9.01	13.46	-						
Highest CH	1.10	2.73	4.51	9.03	13.46	-						

Mode	LTE Band 38 : 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	4.51	4.50	8.99	8.97	13.49	13.40	18.42	18.26	4.48	9.01	13.40	18.38
Middle CH	4.49	4.49	8.97	9.03	13.43	13.43	18.46	18.42	4.46	9.01	13.40	18.38
Highest CH	4.50	4.48	9.05	9.05	13.55	13.43	18.26	18.22	4.50	9.07	13.43	18.26

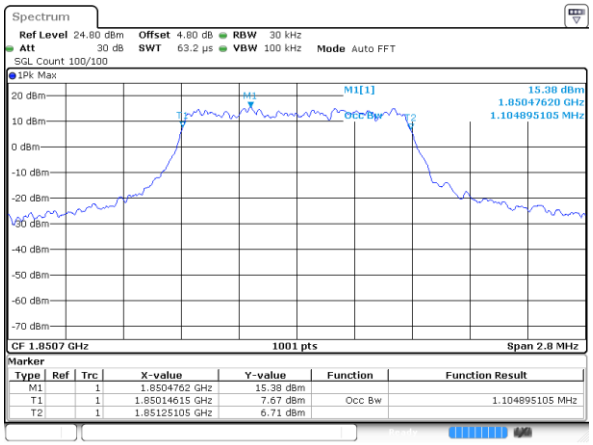
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.48	4.47	9.13	9.01	13.43	13.43	18.46	18.62	4.51	9.01	13.43	18.34
Middle CH	4.49	4.47	9.05	9.03	13.43	13.43	18.30	18.46	4.50	9.05	13.49	18.46
Highest CH	4.54	4.49	8.97	8.99	13.37	13.52	18.50	18.42	4.47	8.99	13.46	18.34

Mode	LTE Band 66 : 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	2.71	2.69	4.48	4.47	8.99	9.01	13.46	13.46	18.38	18.42
Middle CH	1.09	1.10	2.73	2.71	4.51	4.50	9.01	9.01	13.46	13.43	18.30	18.30
Highest CH	1.08	1.10	2.73	2.73	4.49	4.48	9.01	9.03	13.43	13.52	18.34	18.30

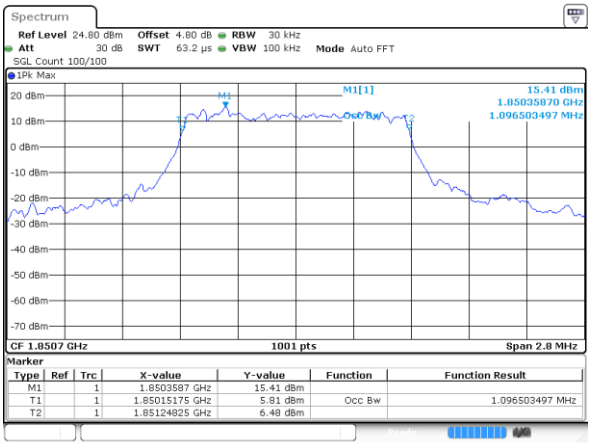
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	1.10	2.72	4.52	9.01	13.43	18.30
Middle CH	1.10	2.74	4.51	8.99	13.49	18.42
Highest CH	1.09	2.70	4.51	9.01	13.46	18.46

LTE Band 2

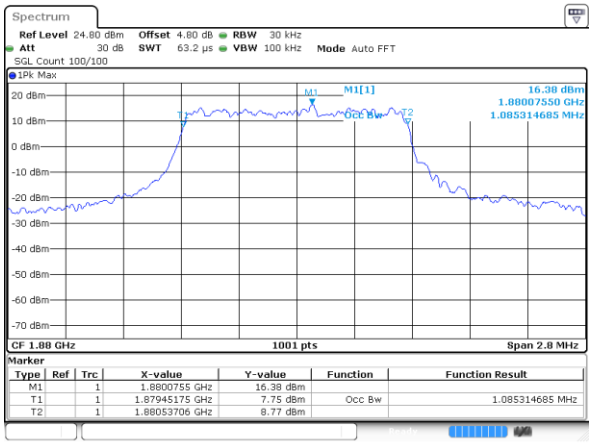
Lowest Channel / 1.4MHz / QPSK



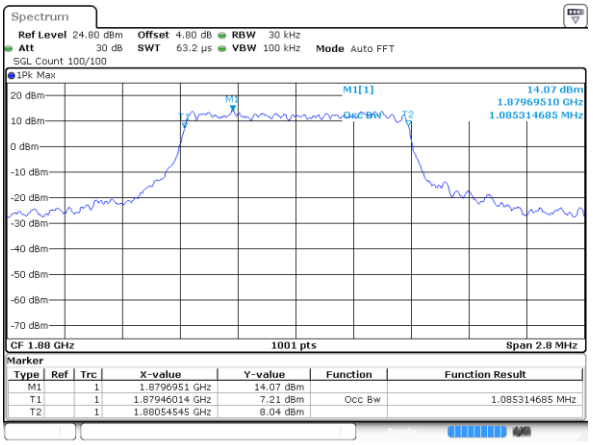
Lowest Channel / 1.4MHz / 16QAM



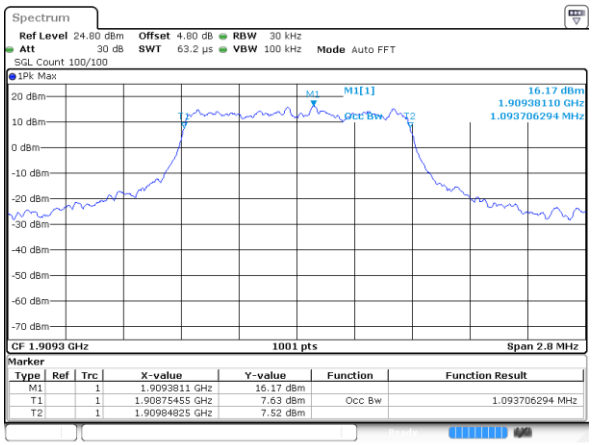
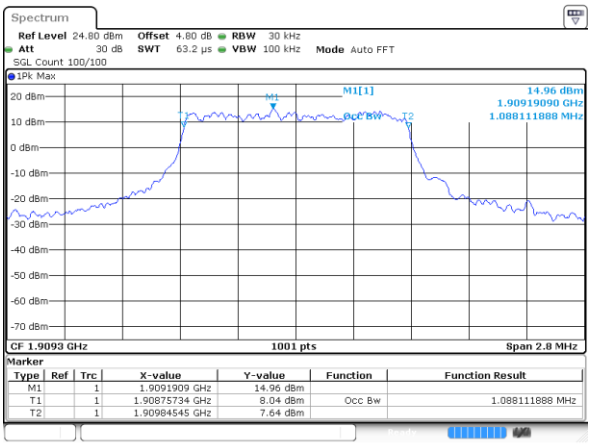
Middle Channel / 1.4MHz / QPSK



Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



Highest Channel / 1.4MHz / 16QAM