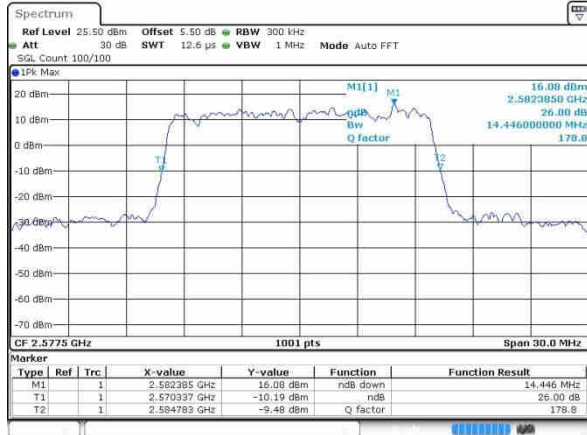




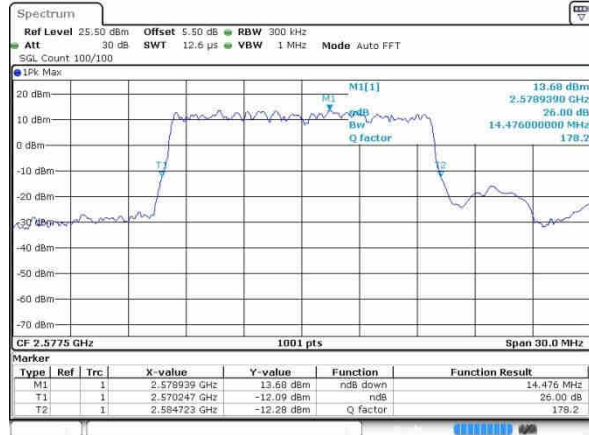
LTE Band 38

Lowest Channel / 15MHz / QPSK



Date: 8 JAN 2019 09:12:45

Lowest Channel / 15MHz / 16QAM



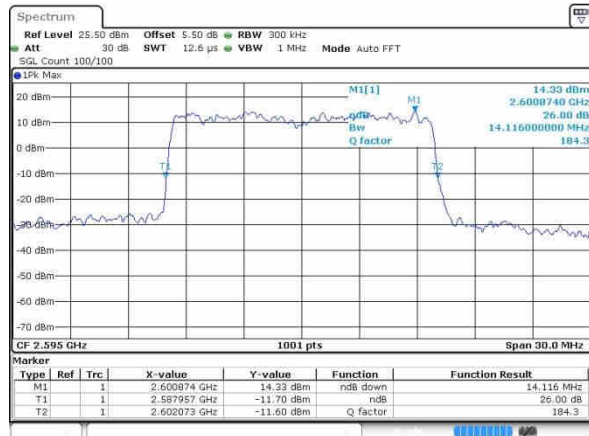
Date: 8 JAN 2019 09:13:10

Middle Channel / 15MHz / QPSK



Date: 8 JAN 2019 09:11:45

Middle Channel / 15MHz / 16QAM



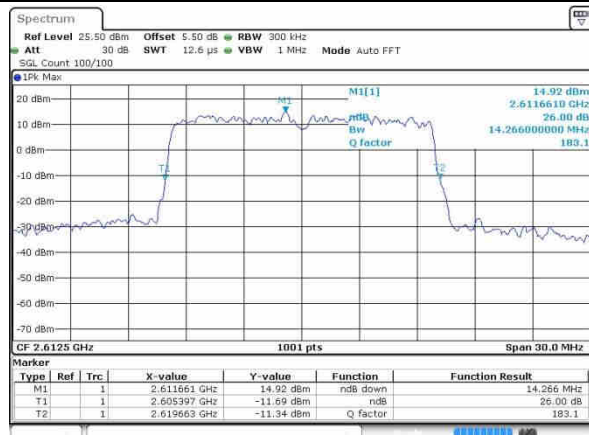
Date: 8 JAN 2019 09:08:24

Highest Channel / 15MHz / QPSK



Date: 8 JAN 2019 09:10:07

Highest Channel / 15MHz / 16QAM

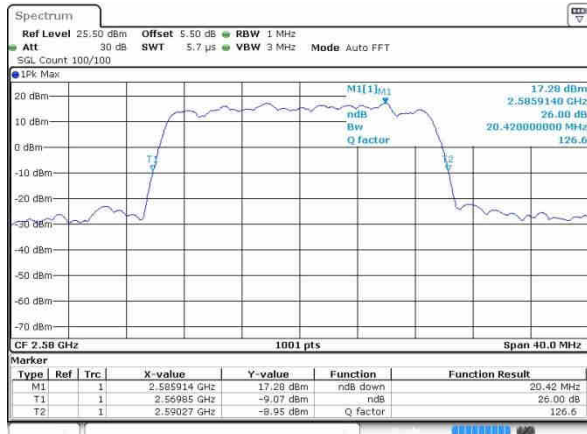


Date: 8 JAN 2019 09:08:40



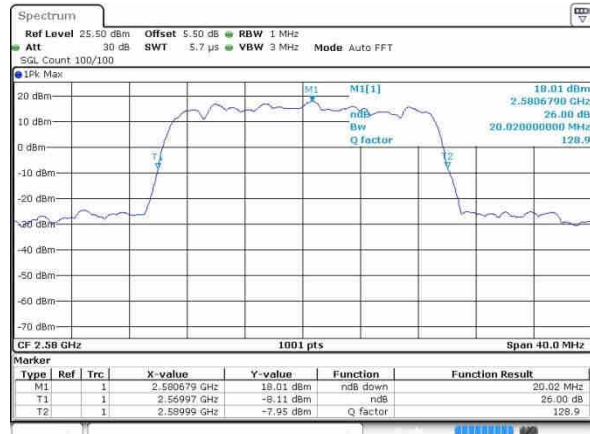
LTE Band 38

Lowest Channel / 20MHz / QPSK



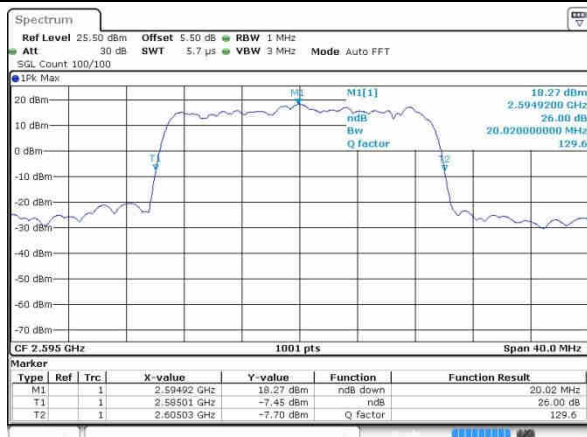
Date: 7 JAN 2019 19:26:32

Lowest Channel / 20MHz / 16QAM



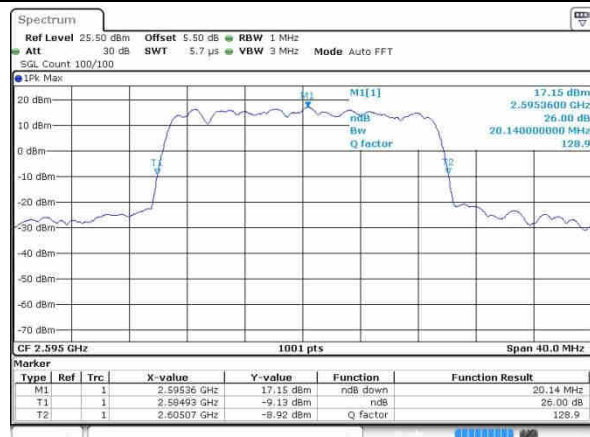
Date: 7 JAN 2019 19:26:15

Middle Channel / 20MHz / QPSK



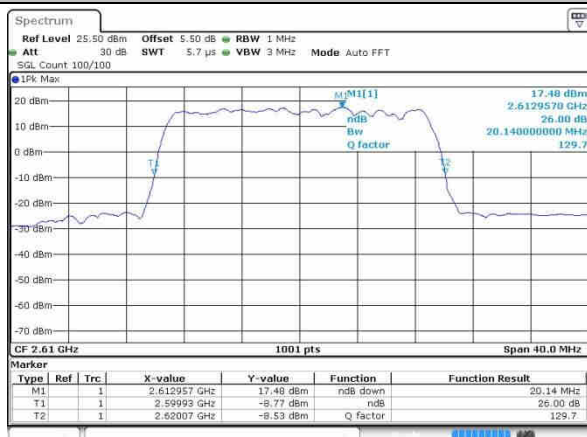
Date: 7 JAN 2019 19:20:42

Middle Channel / 20MHz / 16QAM



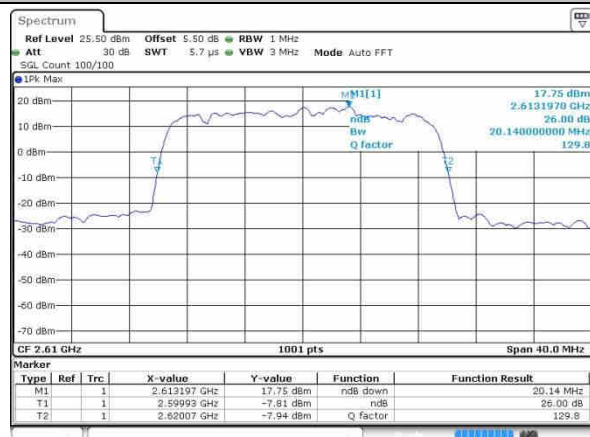
Date: 7 JAN 2019 19:21:26

Highest Channel / 20MHz / QPSK



Date: 7 JAN 2019 19:18:25

Highest Channel / 20MHz / 16QAM

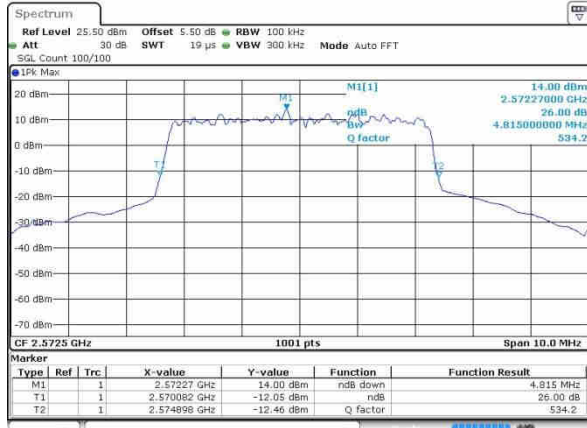


Date: 7 JAN 2019 19:21:26



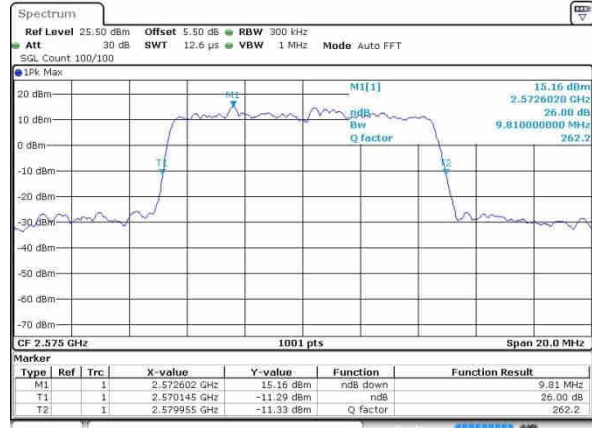
LTE Band 38

Lowest Channel / 5MHz / 64QAM



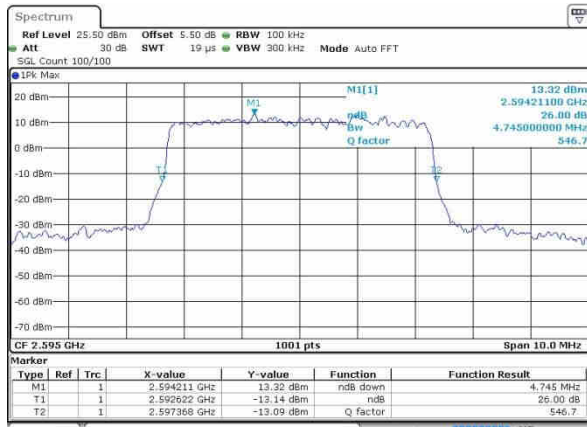
Date: 7 JAN 2019 20:26:21

Lowest Channel / 10MHz / 64QAM



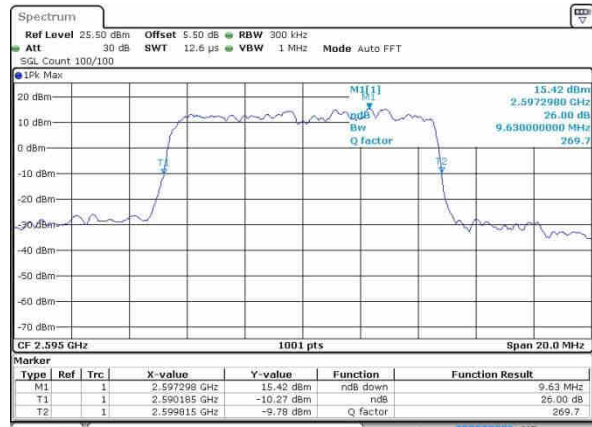
Date: 8 JAN 2019 09:00:16

Middle Channel / 5MHz / 64QAM



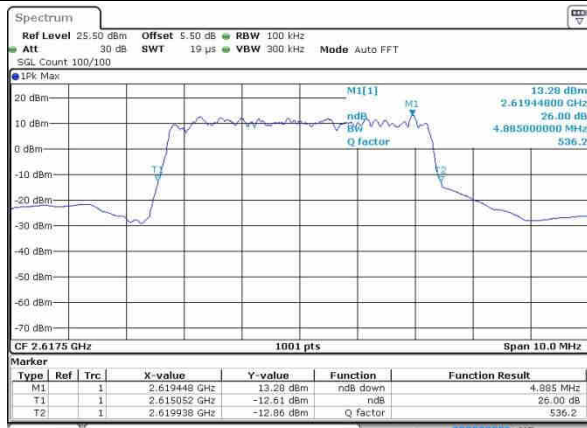
Date: 7 JAN 2019 20:27:00

Middle Channel / 10MHz / 64QAM



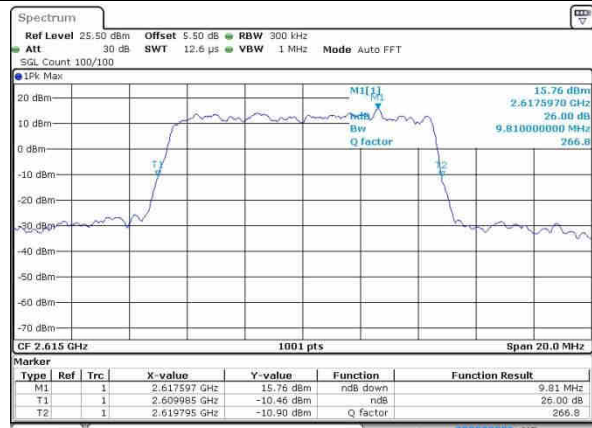
Date: 8 JAN 2019 09:01:05

Highest Channel / 5MHz / 64QAM



Date: 7 JAN 2019 20:30:31

Highest Channel / 10MHz / 64QAM

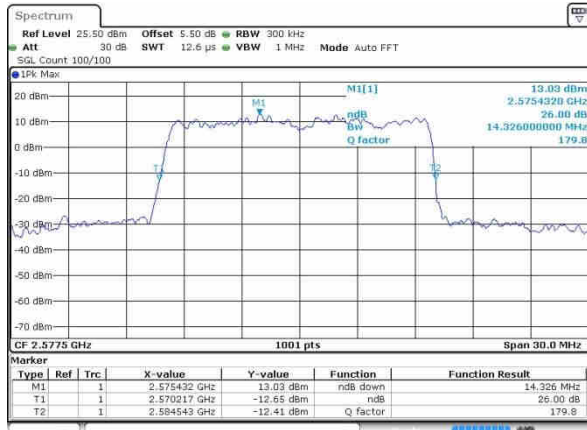


Date: 8 JAN 2019 09:04:11



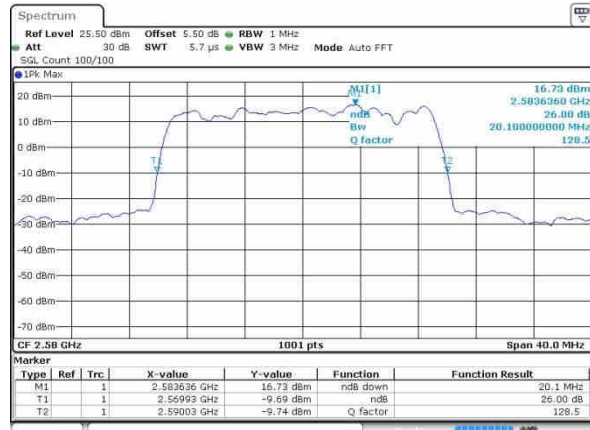
LTE Band 38

Lowest Channel / 15MHz / 64QAM



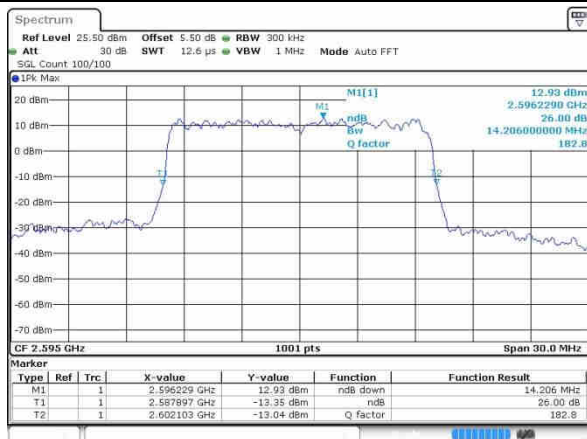
Date: 8 JAN 2019 09:13:40

Lowest Channel / 20MHz / 64QAM



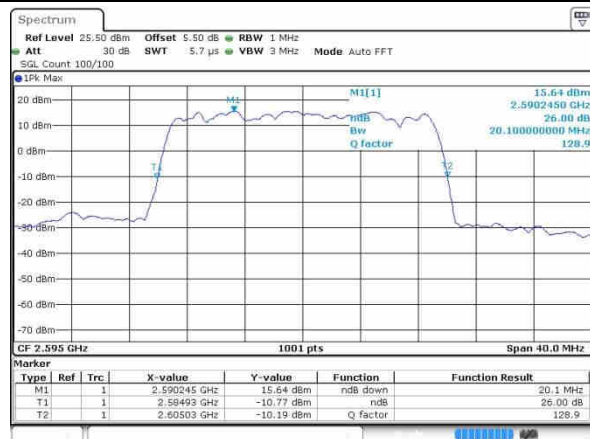
Date: 7 JAN 2019 19:25:15

Middle Channel / 15MHz / 64QAM



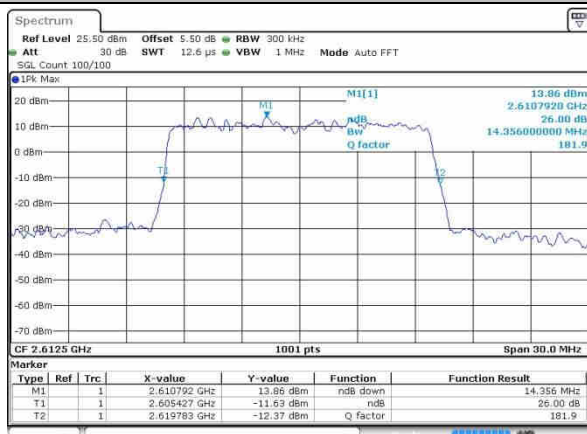
Date: 8 JAN 2019 09:07:47

Middle Channel / 20MHz / 64QAM



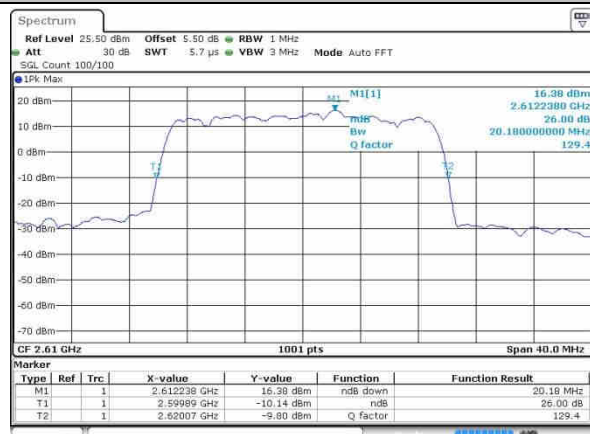
Date: 7 JAN 2019 19:23:38

Highest Channel / 15MHz / 64QAM



Date: 8 JAN 2019 09:10:32

Highest Channel / 20MHz / 64QAM

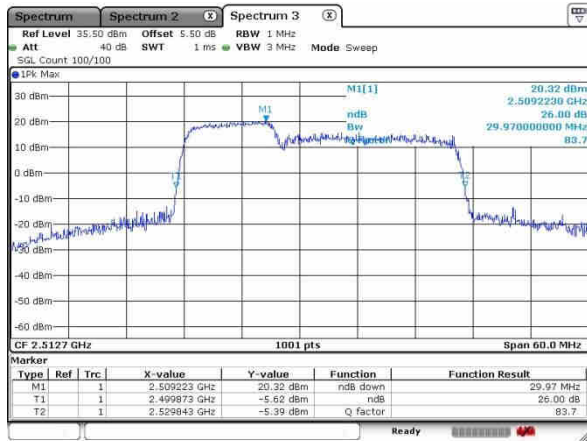


Date: 7 JAN 2019 19:15:58

LTE Band 7

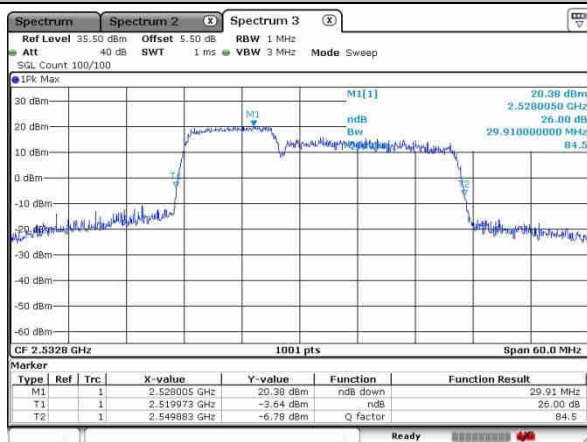
QPSK

Lowest Channel / 10MHz+20MHz



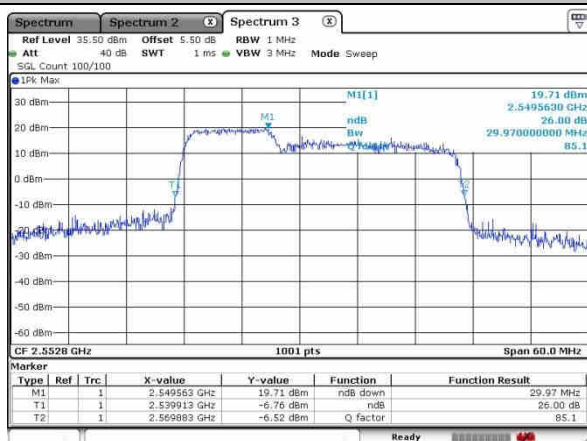
Date: 10 JAN 2019 17:11:17

Middle Channel / 10MHz+20MHz



Date: 10 JAN 2019 17:17:06

Highest Channel / 10MHz+20MHz



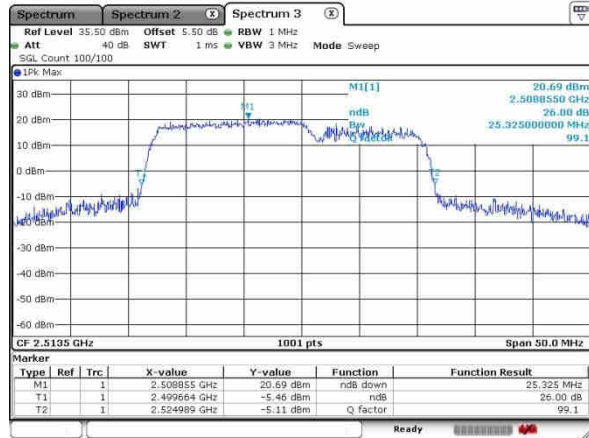
Date: 10 JAN 2019 17:28:40



LTE Band 7

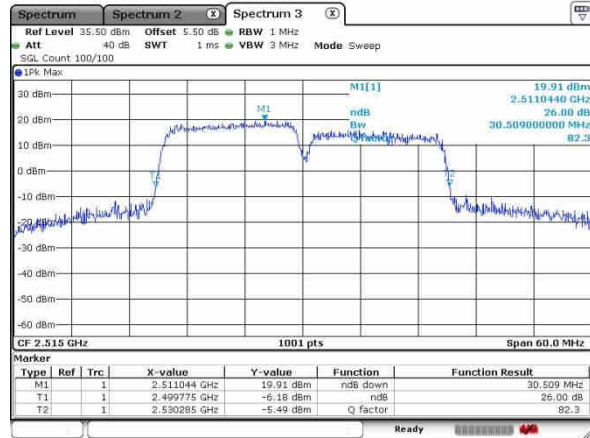
QPSK

Lowest Channel / 15MHz+10MHz



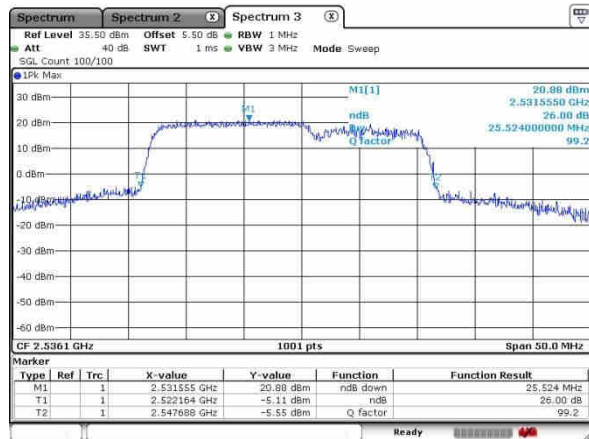
Date: 10 JAN 2019 20:26:07

Lowest Channel / 15MHz+15MHz



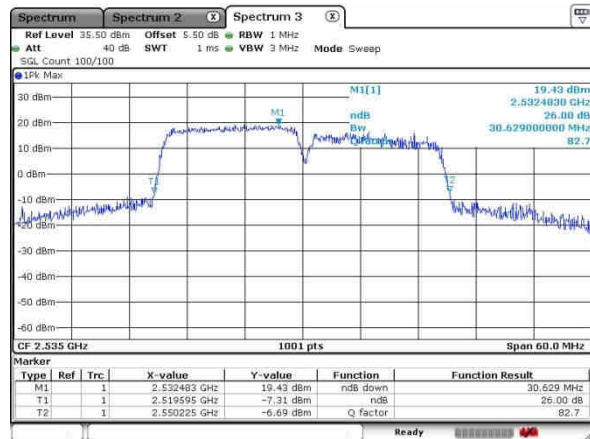
Date: 10 JAN 2019 20:55:13

Middle Channel / 15MHz+10MHz



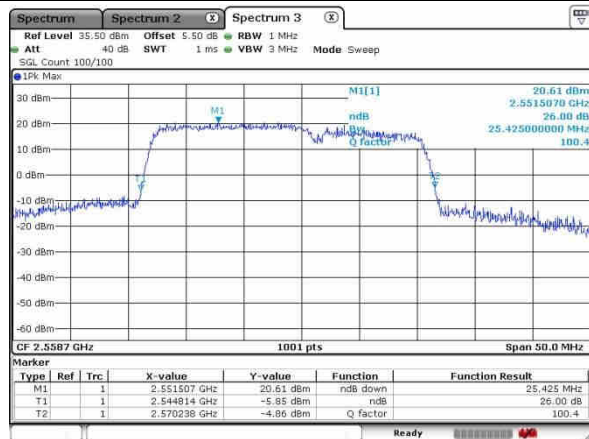
Date: 10 JAN 2019 20:30:39

Middle Channel / 15MHz+15MHz



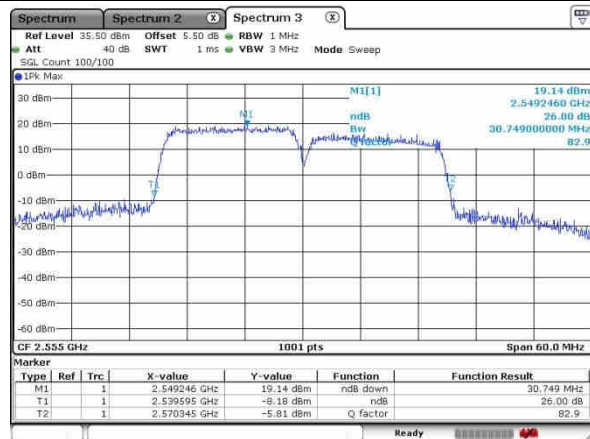
Date: 10 JAN 2019 20:42:26

Highest Channel / 15MHz+10MHz



Date: 10 JAN 2019 20:31:54

Highest Channel / 15MHz+15MHz



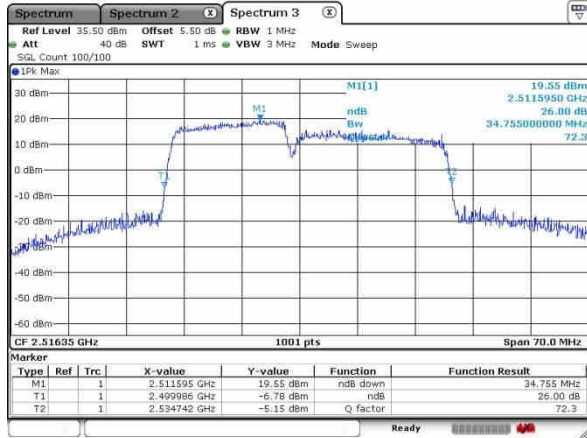
Date: 10 JAN 2019 20:46:11



LTE Band 7

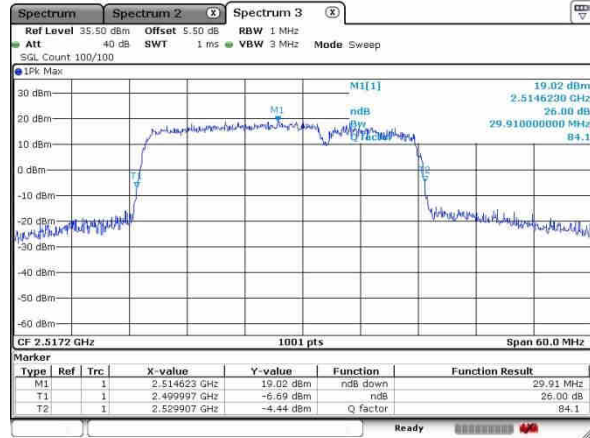
QPSK

Lowest Channel / 15MHz+20MHz



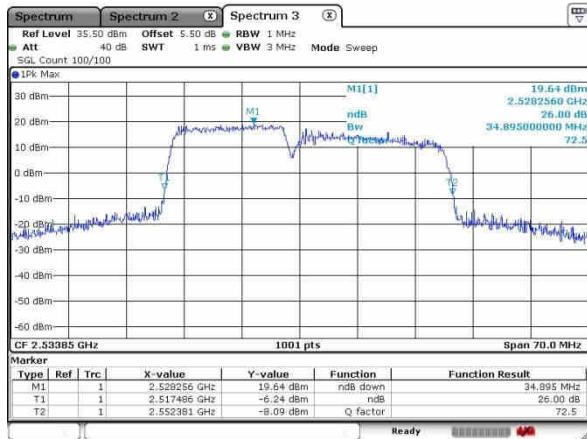
Date: 10 JAN 2019 21:05:48

Lowest Channel / 20MHz+10MHz



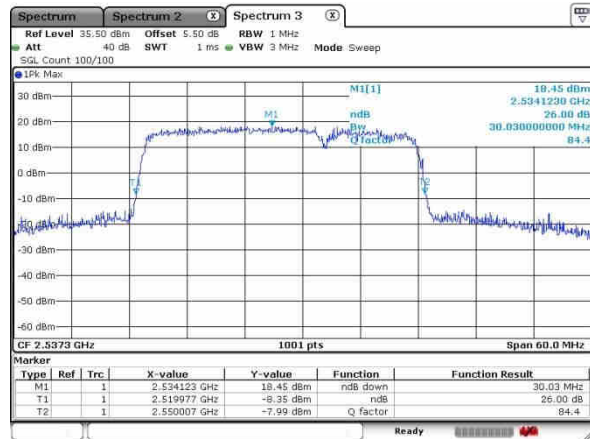
Date: 10 JAN 2019 19:26:17

Middle Channel / 15MHz+20MHz



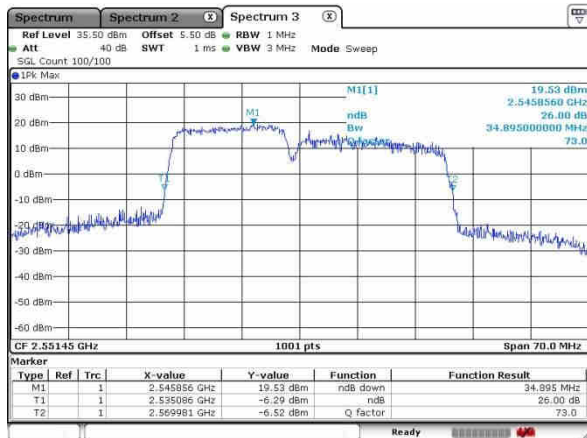
Date: 10 JAN 2019 21:09:06

Middle Channel / 20MHz+10MHz



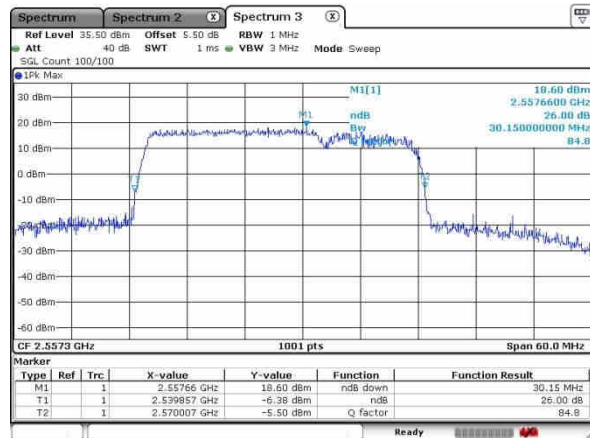
Date: 10 JAN 2019 19:26:21

Highest Channel / 15MHz+20MHz



Date: 10 JAN 2019 21:15:48

Highest Channel / 20MHz+10MHz



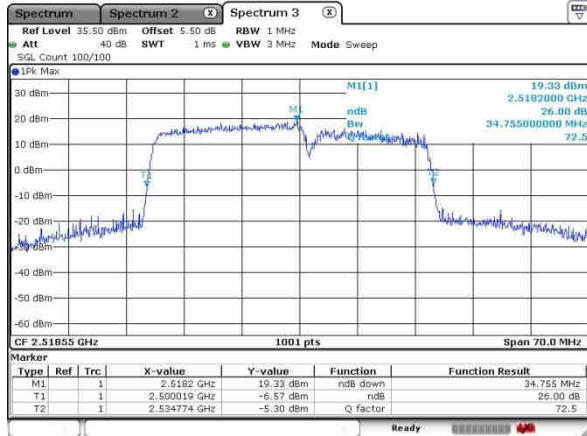
Date: 10 JAN 2019 19:37:44



LTE Band 7

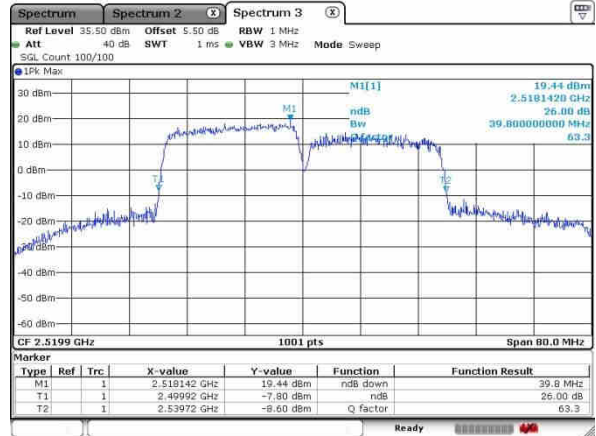
QPSK

Lowest Channel / 20MHz+15MHz



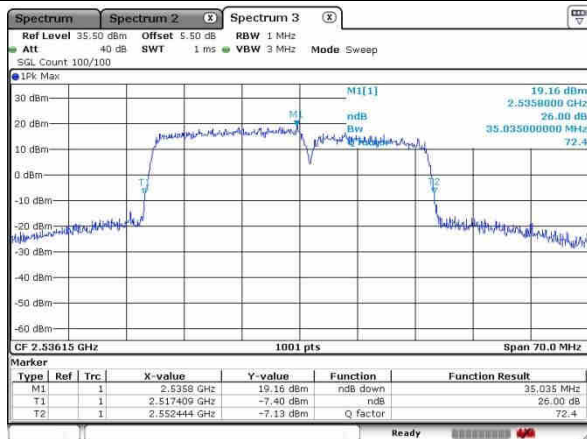
Date: 10 JAN 2019 19:47:59

Lowest Channel / 20MHz+20MHz



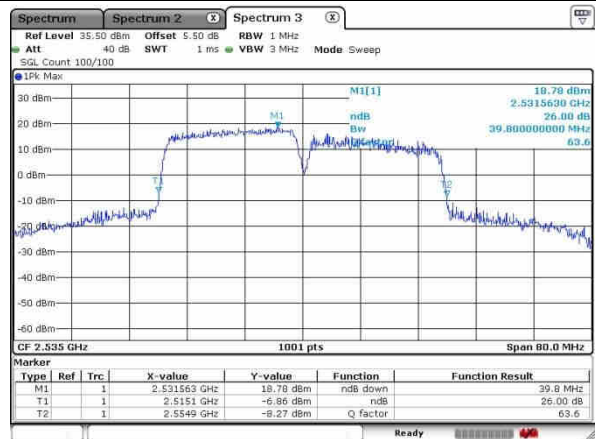
Date: 10 JAN 2019 20:02:04

Middle Channel / 20MHz+15MHz



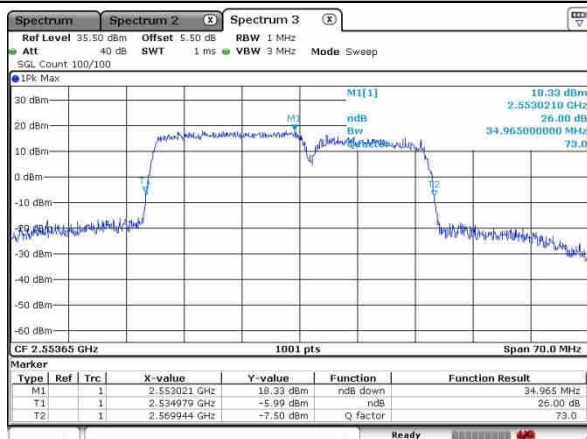
Date: 10 JAN 2019 19:48:07

Middle Channel / 20MHz+20MHz



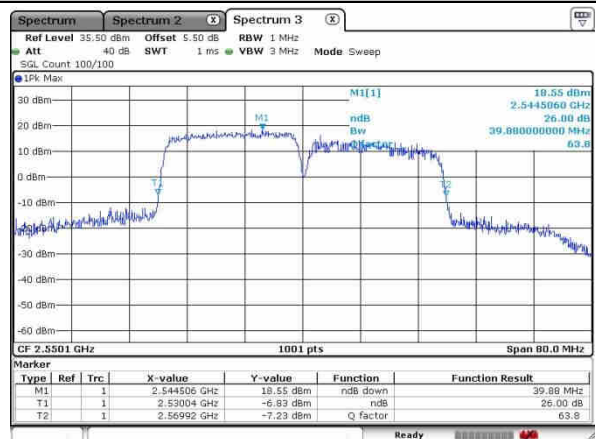
Date: 10 JAN 2019 20:12:22

Highest Channel / 20MHz+15MHz



Date: 10 JAN 2019 20:00:04

Highest Channel / 20MHz+20MHz



Date: 10 JAN 2019 20:13:16

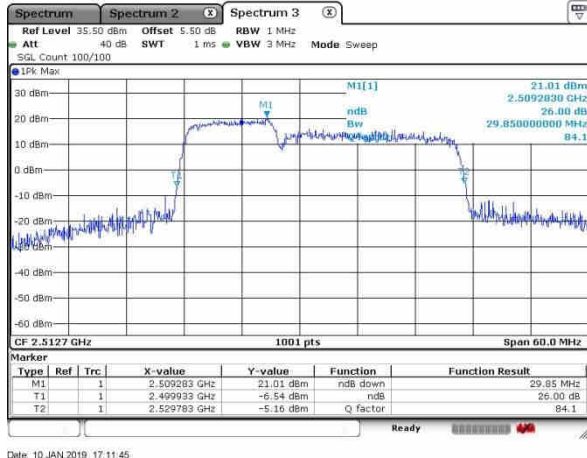


LTE Band 7

16QAM

Lowest Channel / 10MHz+20MHz

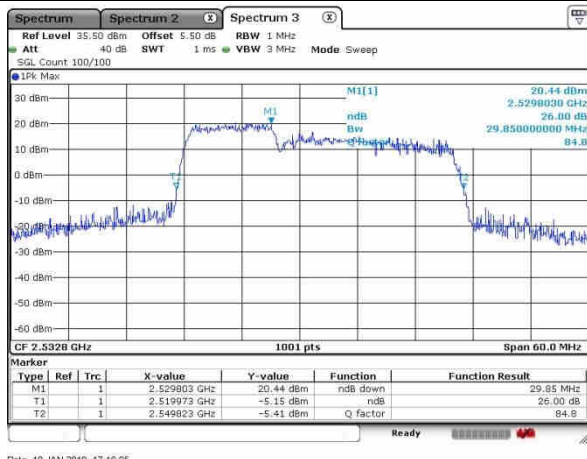
-



Date: 10 JAN 2019 17:11:45

Middle Channel / 10MHz+20MHz

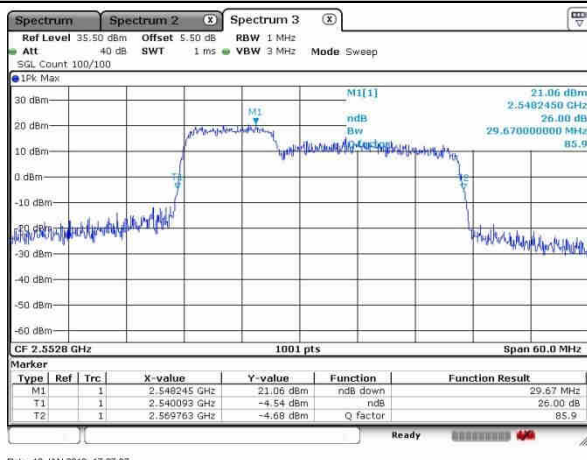
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Date: 10 JAN 2019 17:16:05

Highest Channel / 10MHz+20MHz

-



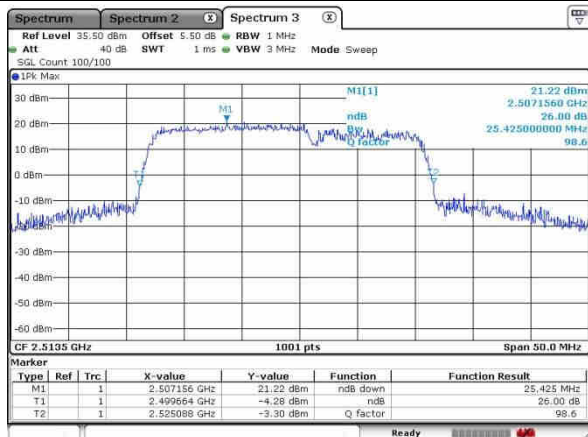
Date: 10 JAN 2019 17:27:37



LTE Band 7

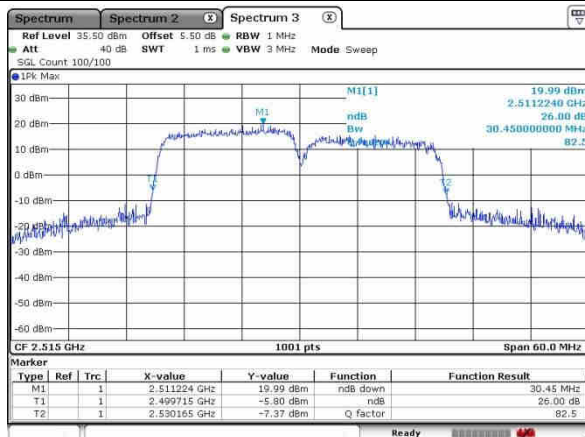
16QAM

Lowest Channel / 15MHz+10MHz



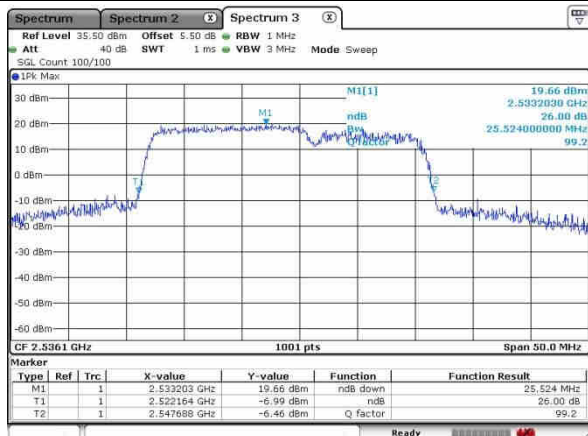
Date: 10 JAN 2019 20:27:02

Lowest Channel / 15MHz+15MHz



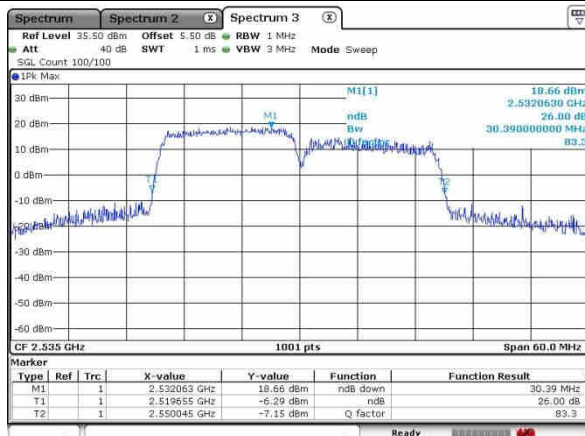
Date: 10 JAN 2019 20:54:50

Middle Channel / 15MHz+10MHz



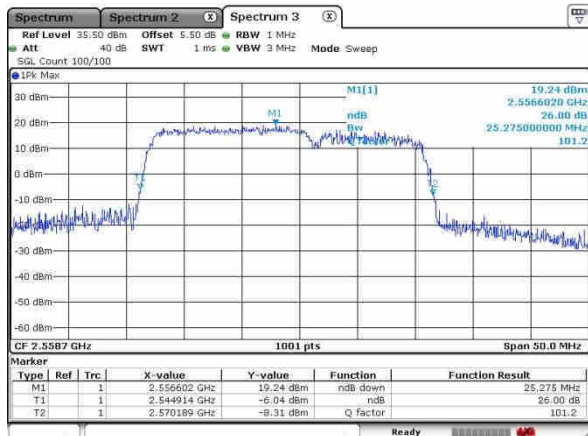
Date: 10 JAN 2019 20:29:45

Middle Channel / 15MHz+15MHz



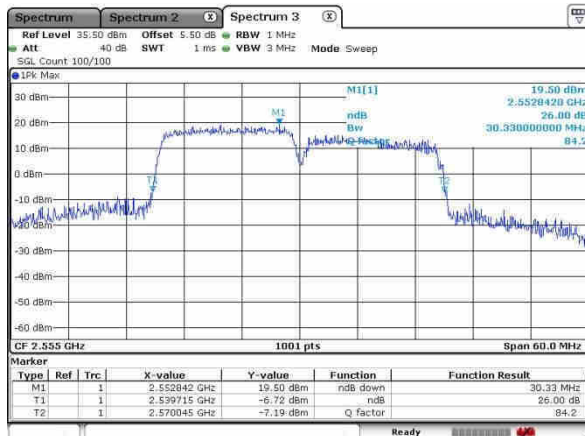
Date: 10 JAN 2019 20:42:46

Highest Channel / 15MHz+10MHz



Date: 10 JAN 2019 20:33:01

Highest Channel / 15MHz+15MHz



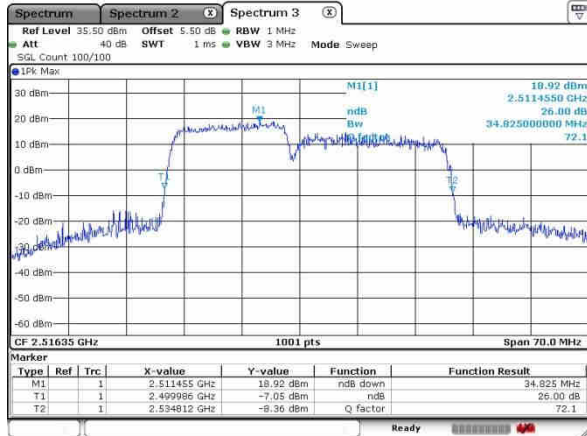
Date: 10 JAN 2019 20:45:45



LTE Band 7

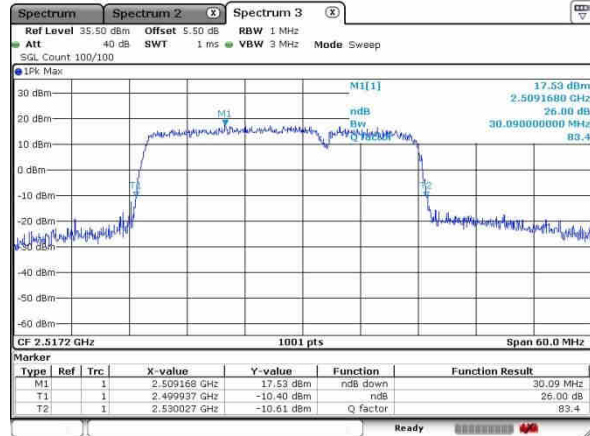
16QAM

Lowest Channel / 15MHz+20MHz



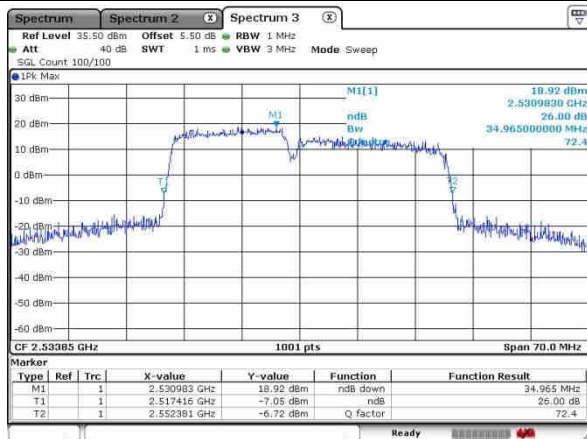
Date 10 JAN 2019 21:06:11

Lowest Channel / 20MHz+10MHz



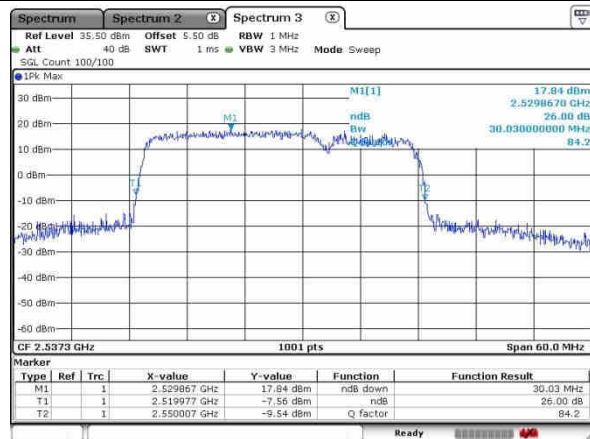
Date 10 JAN 2019 19:26:45

Middle Channel / 15MHz+20MHz



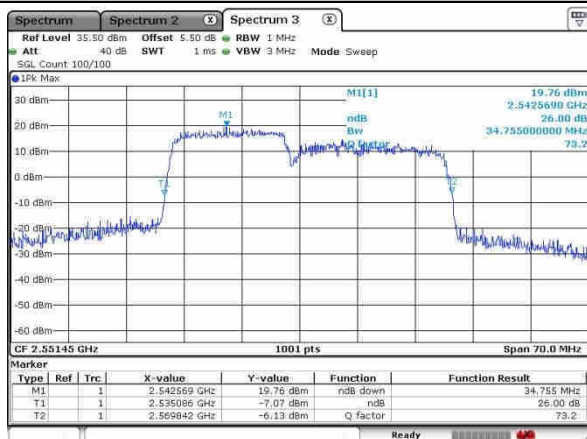
Date 10 JAN 2019 21:08:45

Middle Channel / 20MHz+10MHz



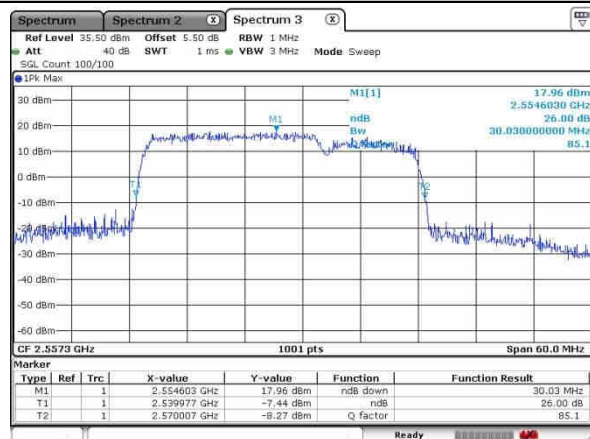
Date 10 JAN 2019 19:35:31

Highest Channel / 15MHz+20MHz



Date 10 JAN 2019 21:16:12

Highest Channel / 20MHz+10MHz



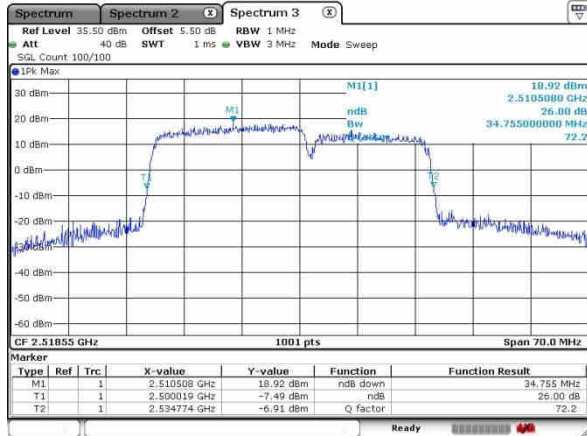
Date 10 JAN 2019 19:38:09



LTE Band 7

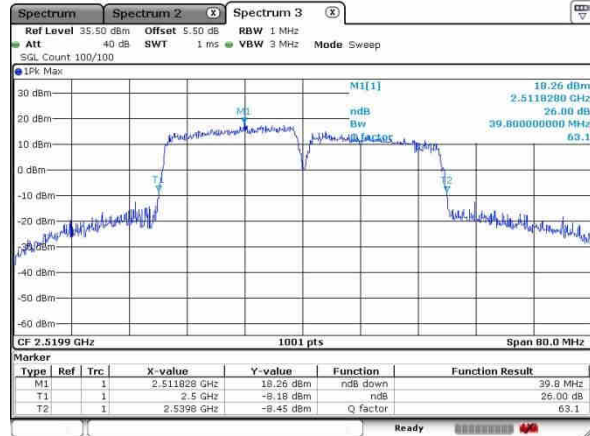
16QAM

Lowest Channel / 20MHz+15MHz



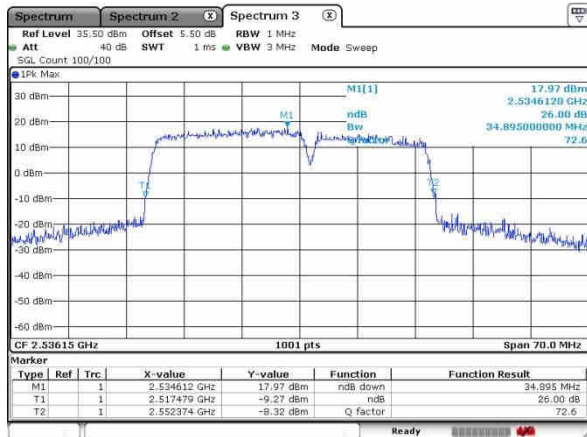
Date: 10 JAN 2019 19:47:13

Lowest Channel / 20MHz+20MHz



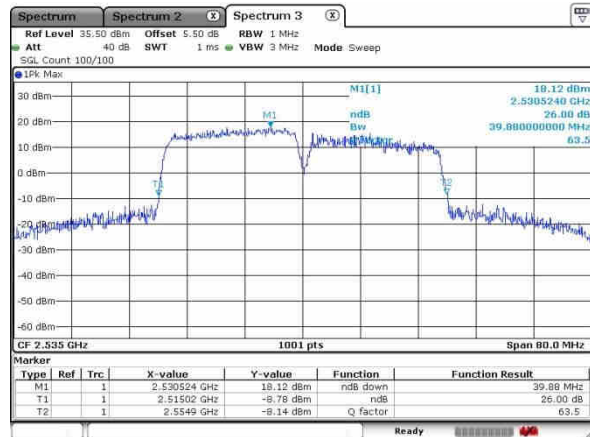
Date: 10 JAN 2019 20:02:38

Middle Channel / 20MHz+15MHz



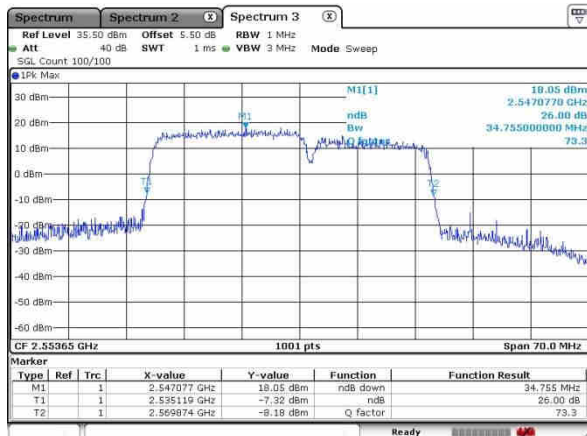
Date: 10 JAN 2019 19:50:25

Middle Channel / 20MHz+20MHz



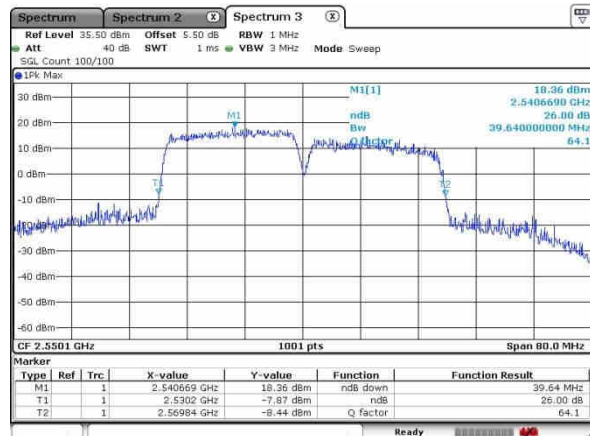
Date: 10 JAN 2019 20:11:24

Highest Channel / 20MHz+15MHz



Date: 10 JAN 2019 19:58:09

Highest Channel / 20MHz+20MHz



Date: 10 JAN 2019 20:14:12

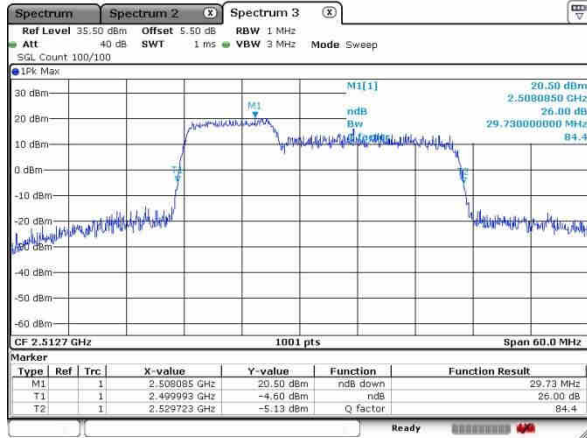


LTE Band 7

64QAM

Lowest Channel / 10MHz+20MHz

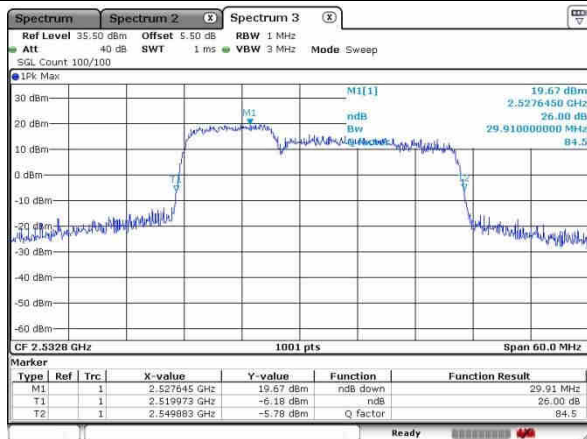
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Date: 10 JAN 2019 17:12:44

Middle Channel / 10MHz+20MHz

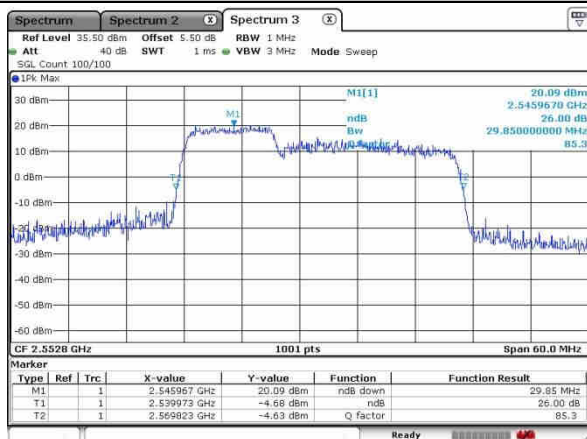
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Date: 10 JAN 2019 17:15:41

Highest Channel / 10MHz+20MHz

-



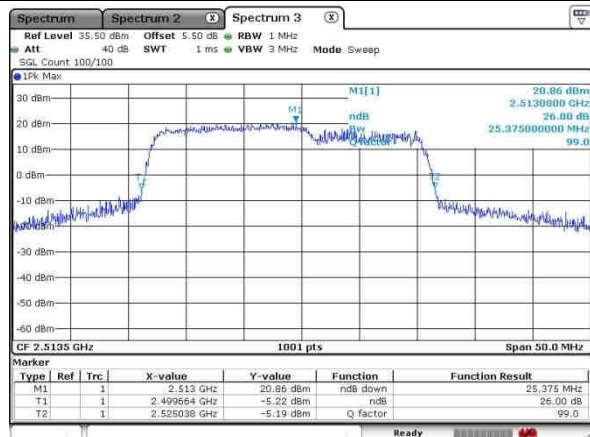
Date: 10 JAN 2019 17:27:14



LTE Band 7

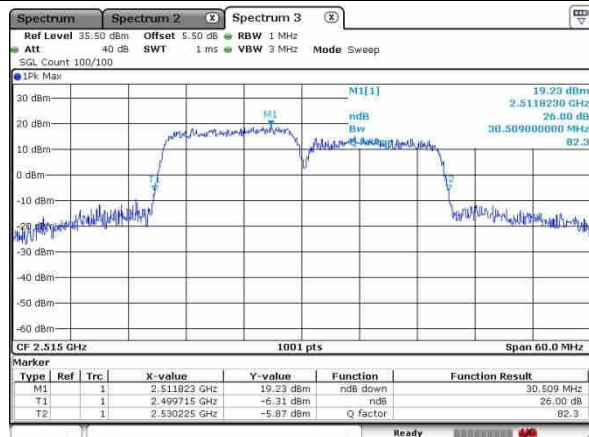
64QAM

Lowest Channel / 15MHz+10MHz



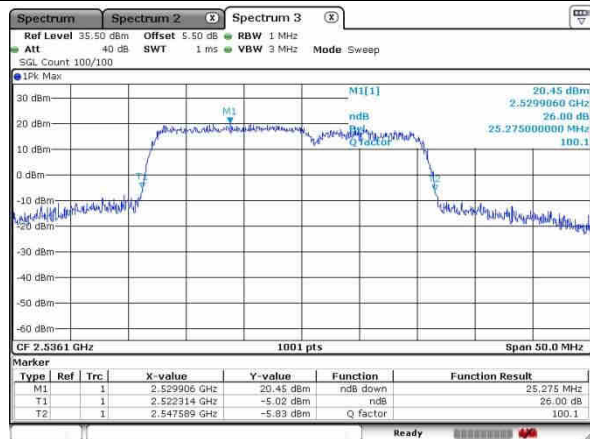
Date 10 JAN 2019 20:27:35

Lowest Channel / 15MHz+15MHz



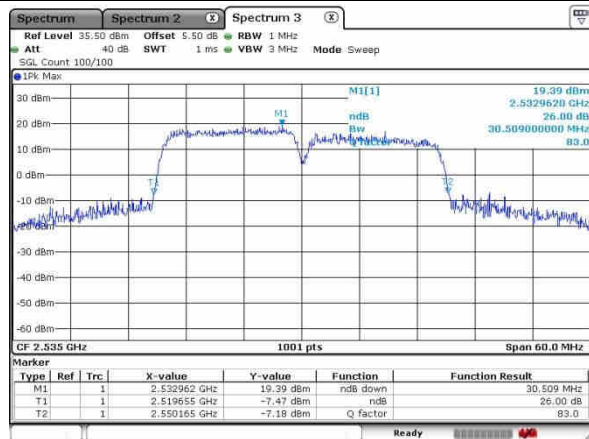
Date 10 JAN 2019 20:56:04

Middle Channel / 15MHz+10MHz



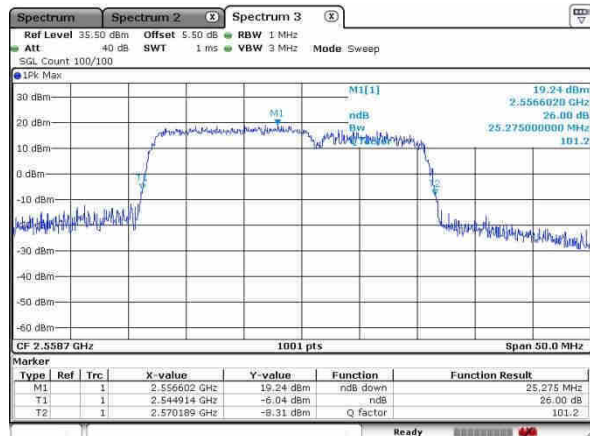
Date 10 JAN 2019 20:29:27

Middle Channel / 15MHz+15MHz



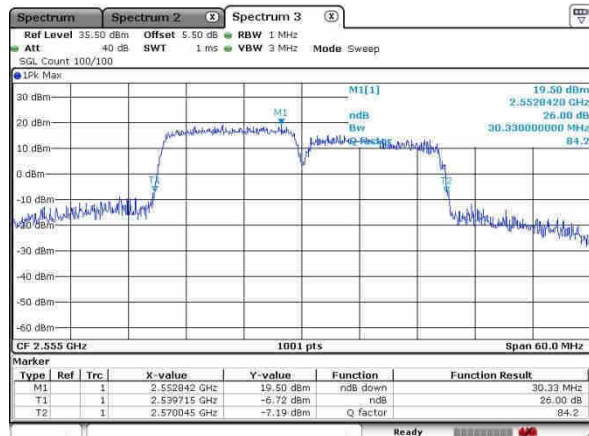
Date 10 JAN 2019 20:43:33

Highest Channel / 15MHz+10MHz



Date 10 JAN 2019 20:33:01

Highest Channel / 15MHz+15MHz



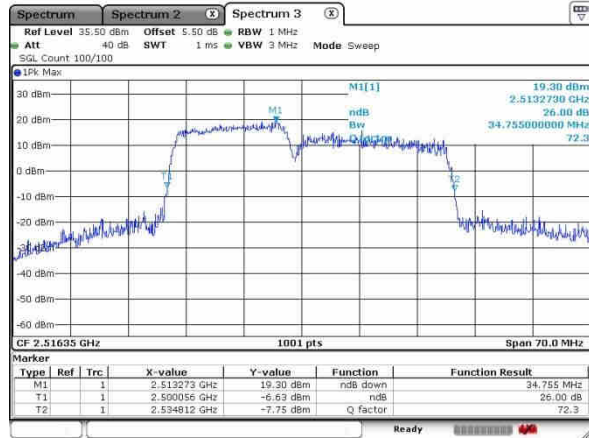
Date 10 JAN 2019 20:45:45



LTE Band 7

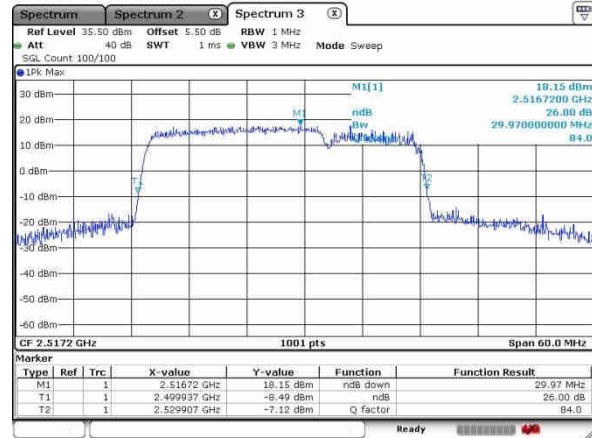
64QAM

Lowest Channel / 15MHz+20MHz



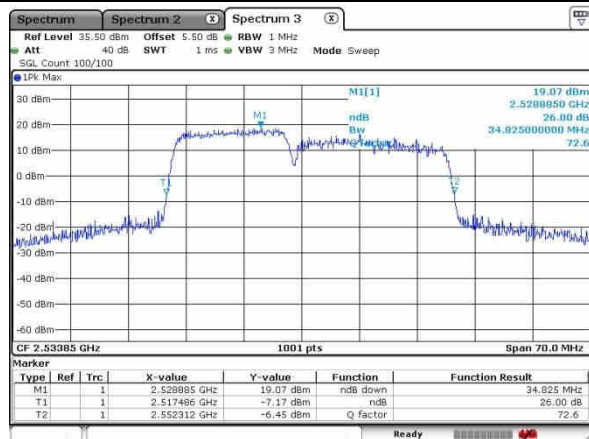
Date: 10 JAN 2019 21:06:57

Lowest Channel / 20MHz+10MHz



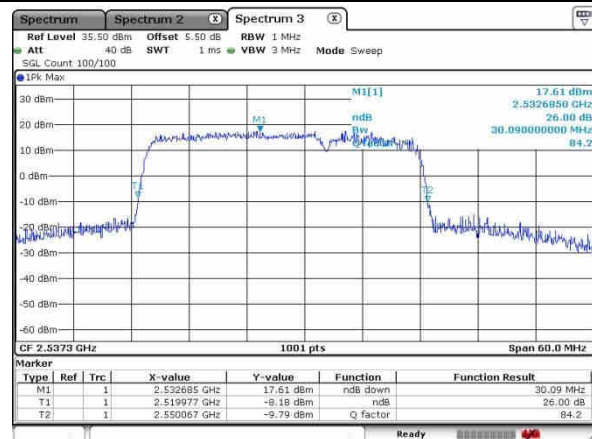
Date: 10 JAN 2019 19:27:38

Middle Channel / 15MHz+20MHz



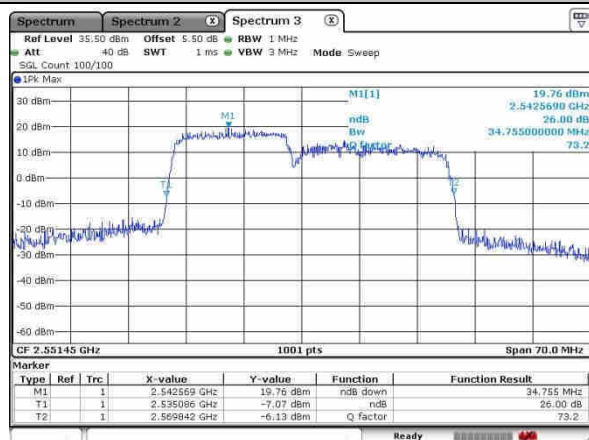
Date: 10 JAN 2019 21:07:55

Middle Channel / 20MHz+10MHz



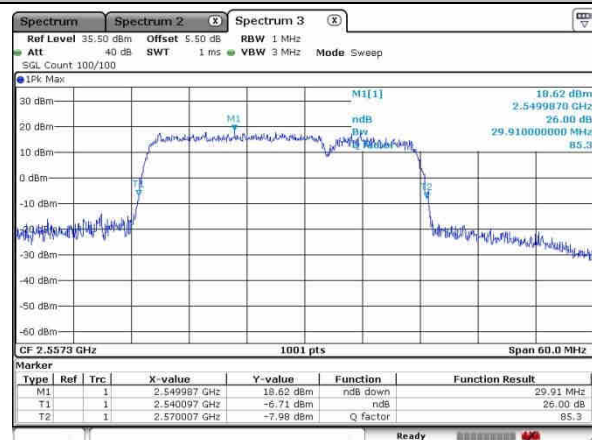
Date: 10 JAN 2019 19:35:07

Highest Channel / 15MHz+20MHz



Date: 10 JAN 2019 21:16:12

Highest Channel / 20MHz+10MHz



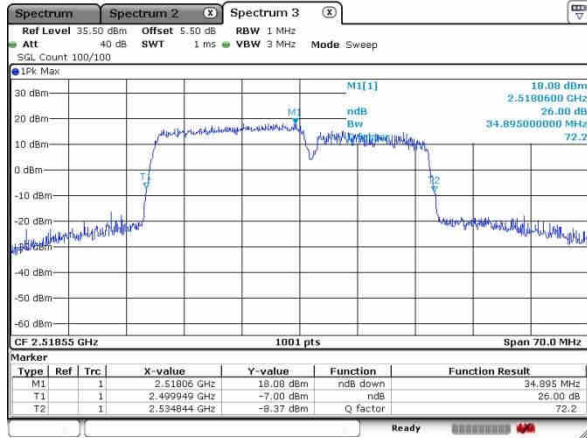
Date: 10 JAN 2019 19:39:13



LTE Band 7

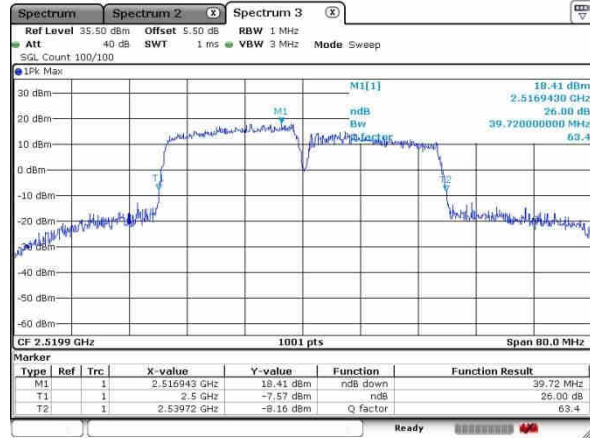
64QAM

Lowest Channel / 20MHz+15MHz



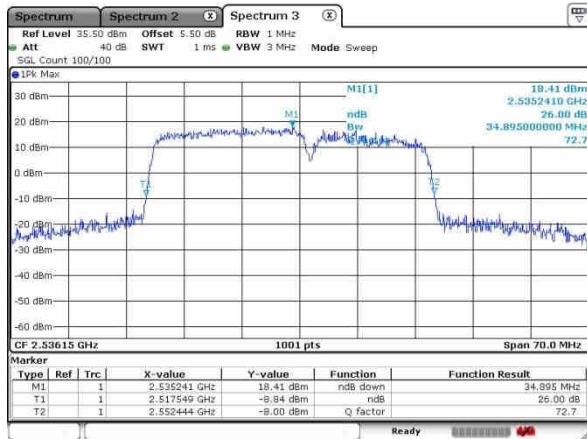
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Lowest Channel / 20MHz+20MHz



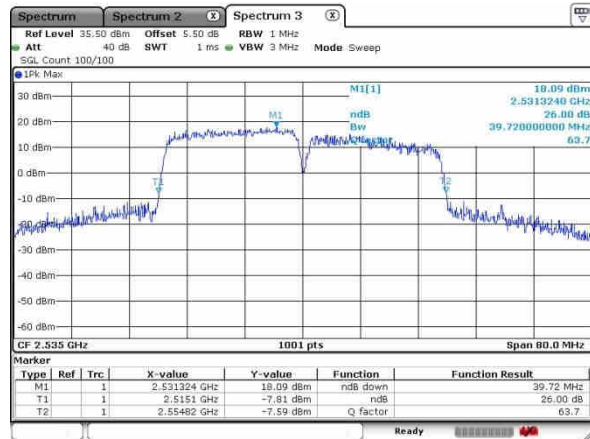
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Middle Channel / 20MHz+15MHz



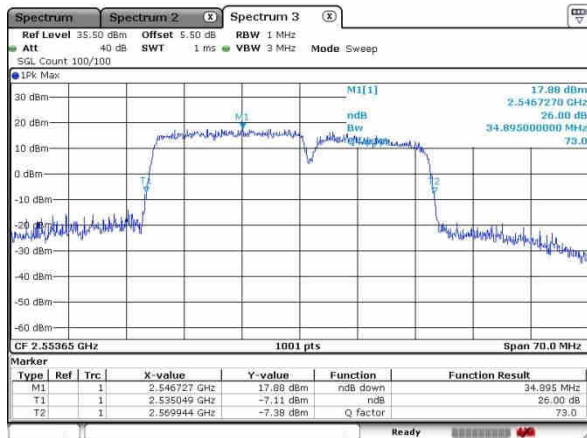
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Middle Channel / 20MHz+20MHz



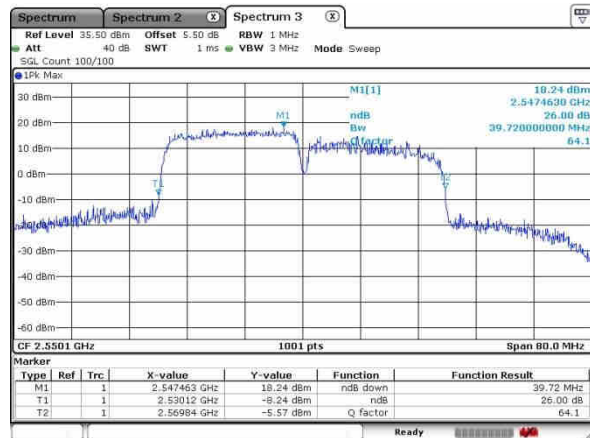
Date: 10 JAN 2019 20:11:05

Highest Channel / 20MHz+15MHz



Date: 10 JAN 2019 19:58:49

Highest Channel / 20MHz+20MHz



Date: 10 JAN 2019 20:14:34

**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	1.09	2.72	2.72	4.48	4.49	9.01	8.97	13.34	13.34	18.30	18.26
Middle CH	1.10	1.09	2.70	2.71	4.51	4.48	8.99	8.97	13.43	13.43	18.34	18.22
Highest CH	1.09	1.09	2.72	2.73	4.48	4.50	9.01	8.99	13.37	13.43	18.06	18.22
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.72		4.50		9.07		13.43		18.26	
Middle CH	1.10		2.71		4.50		8.99		13.43		18.34	
Highest CH	1.09		2.71		4.50		9.09		13.34		18.26	

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.10	1.10	2.72	2.71	4.49	4.47	8.99	8.99	13.49	13.40	18.14	18.18
Middle CH	1.09	1.09	2.73	2.73	4.48	4.49	9.01	8.97	13.46	13.43	18.18	18.22
Highest CH	1.09	1.09	2.72	2.71	4.49	4.50	9.03	9.01	13.34	13.37	18.26	18.34
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.10		2.72		4.49		8.99		13.43		18.34	
Middle CH	1.10		2.71		4.47		8.99		13.28		18.18	
Highest CH	1.10		2.72		4.50		8.99		13.37		18.18	



Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.73	2.70	4.48	4.47	9.01	9.03				
Middle CH	1.09	1.09	2.72	2.70	4.47	4.49	9.01	9.01				
Highest CH	1.09	1.10	2.72	2.74	4.48	4.49	8.99	8.97				
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.10		2.73		4.49		9.03					
Middle CH	1.10		2.70		4.49		8.99					
Highest CH	1.10		2.72		4.49		9.07					

Mode	LTE Band 7 : 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					4.47	4.50	9.01	9.03	13.43	13.40	18.34	18.26
Middle CH					4.50	4.50	9.05	8.99	13.37	13.46	18.42	18.22
Highest CH					4.49	4.48	8.99	8.97	13.37	13.43	18.26	18.34
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.46		9.03		13.43		18.22	
Middle CH					4.51		9.05		13.43		18.34	
Highest CH					4.48		8.95		13.40		18.26	

Mode	LTE Band 38 : 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					4.47	4.49	9.01	8.99	13.47	13.40	18.42	18.18
Middle CH					4.45	4.49	9.07	8.95	13.40	13.43	18.18	18.22
Highest CH					4.48	4.48	8.97	9.03	13.43	13.49	18.26	18.26
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.47		8.99		13.40		18.30	
Middle CH					4.47		8.97		13.46		18.10	
Highest CH					4.48		9.01		13.40		18.30	



Mode	LTE Band 7 : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz		15MHz+10MHz	15MHz+15MHz
Lowest CH	27.69		23.28	28.29
Middle CH	27.99		23.48	28.29
Highest CH	27.75		23.28	28.35
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.59	27.81	32.59	37.32
Middle CH	32.38	27.81	32.59	37.32
Highest CH	32.38	27.75	32.66	37.16

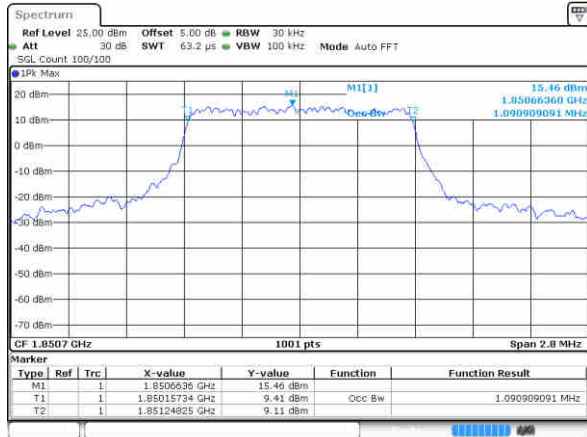
Mode	LTE Band 7 : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz		15MHz+10MHz	15MHz+15MHz
Lowest CH	27.99		23.43	28.41
Middle CH	27.75		23.38	28.47
Highest CH	27.75		23.28	28.35
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.52	27.87	32.38	37.24
Middle CH	32.52	27.99	32.45	37.32
Highest CH	32.52	27.93	32.73	37.32

Mode	LTE Band 7 : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz		15MHz+10MHz	15MHz+15MHz
Lowest CH	27.87		23.38	28.29
Middle CH	27.75		23.43	28.41
Highest CH	27.75		23.28	28.35
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.52	27.81	32.52	37.24
Middle CH	32.38	27.75	32.52	37.32
Highest CH	32.24	27.81	32.59	37.00

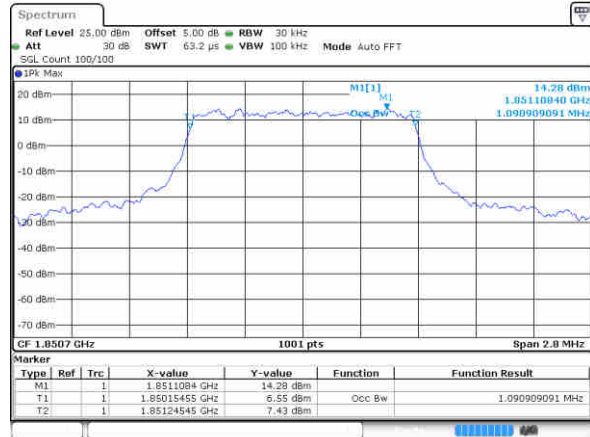


LTE Band 2

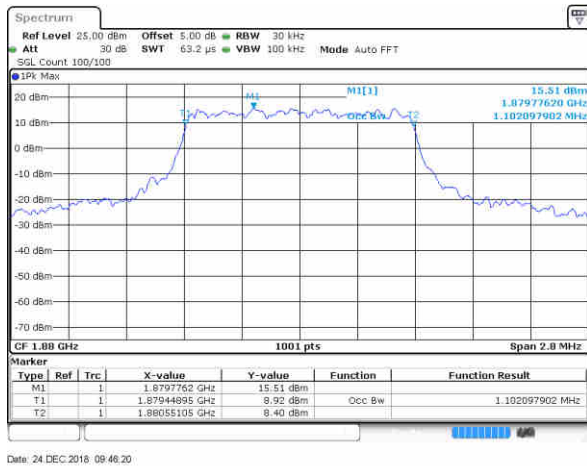
Lowest Channel / 1.4MHz / QPSK



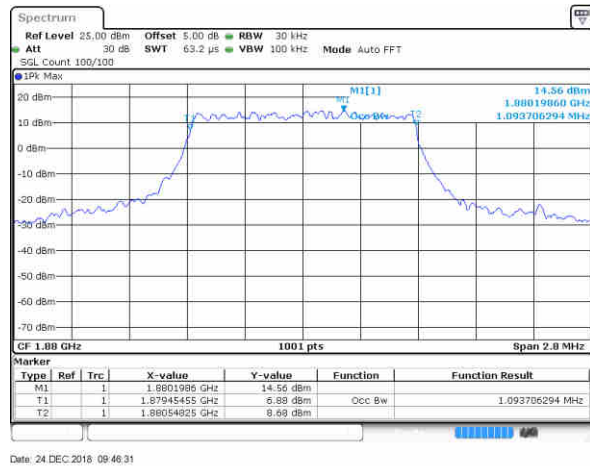
Lowest Channel / 1.4MHz / 16QAM



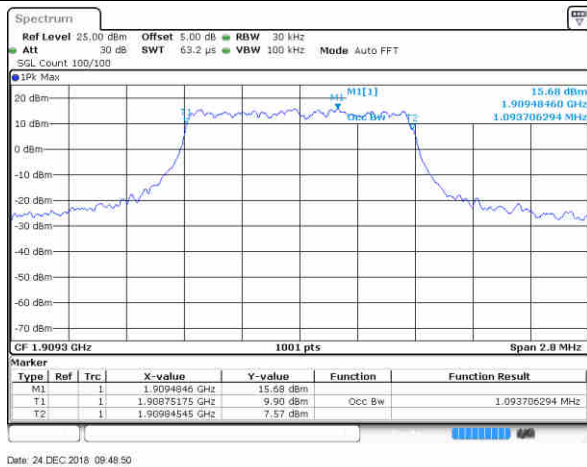
Middle Channel / 1.4MHz / QPSK



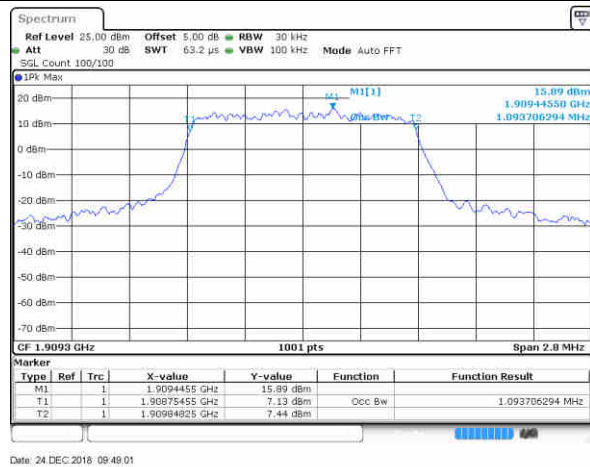
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



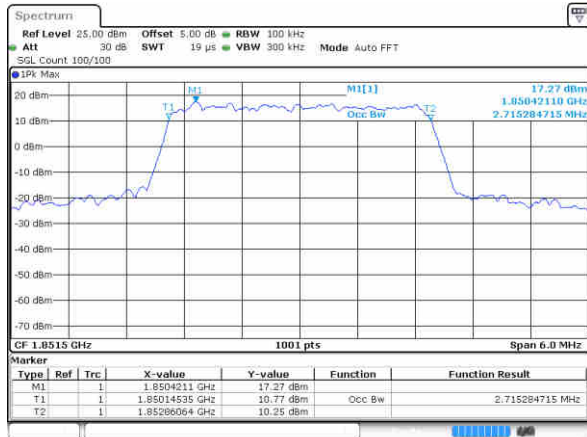
Highest Channel / 1.4MHz / 16QAM





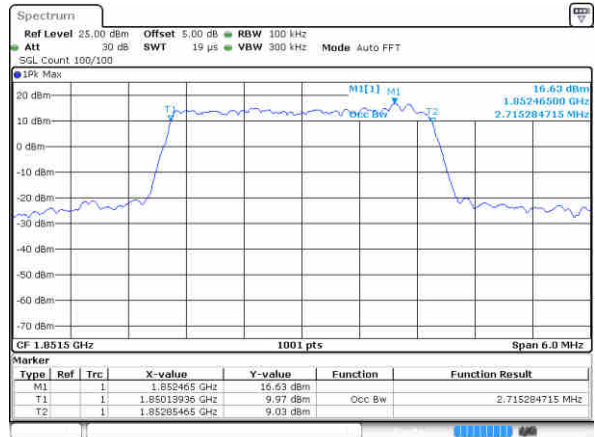
LTE Band 2

Lowest Channel / 3MHz / QPSK



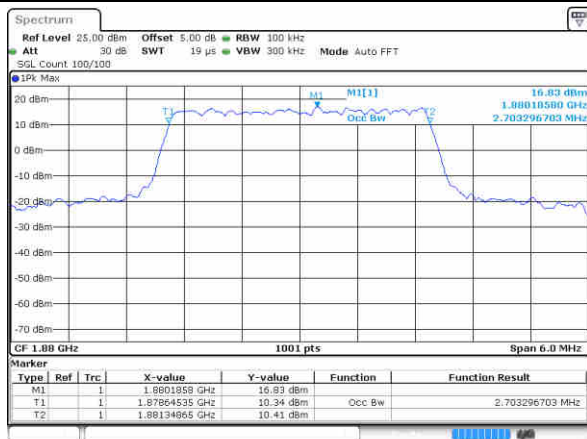
Date: 24 DEC 2018 09:55:50

Lowest Channel / 3MHz / 16QAM



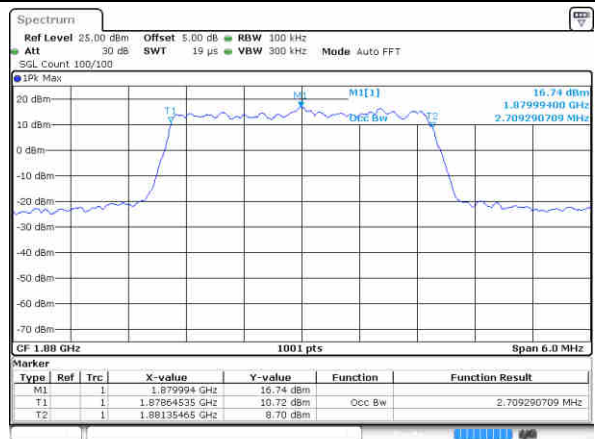
Date: 24 DEC 2018 09:56:00

Middle Channel / 3MHz / QPSK



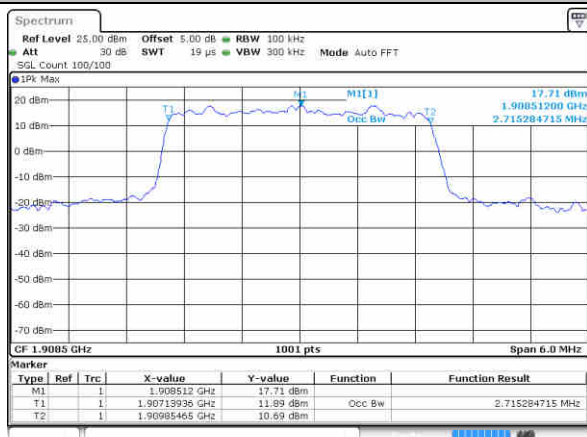
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Middle Channel / 3MHz / 16QAM



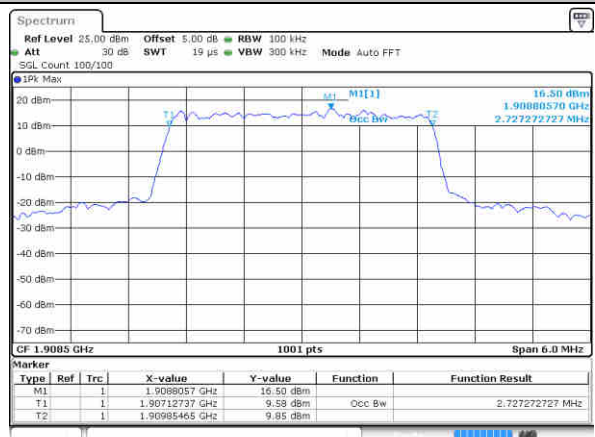
Date: 24 DEC 2018 10:03:00

Highest Channel / 3MHz / QPSK



Date: 24 DEC 2018 10:05:20

Highest Channel / 3MHz / 16QAM

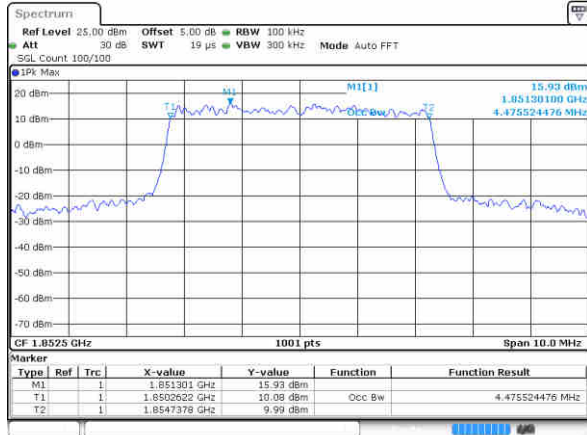


Date: 24 DEC 2018 10:05:30

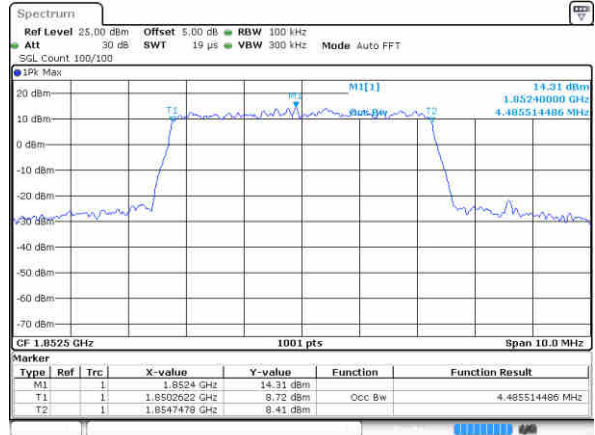


LTE Band 2

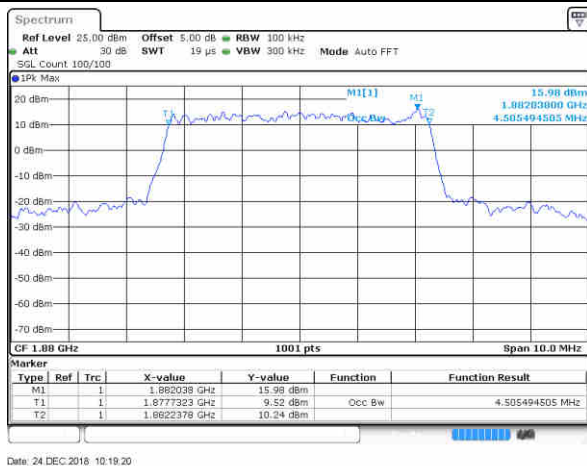
Lowest Channel / 5MHz / QPSK



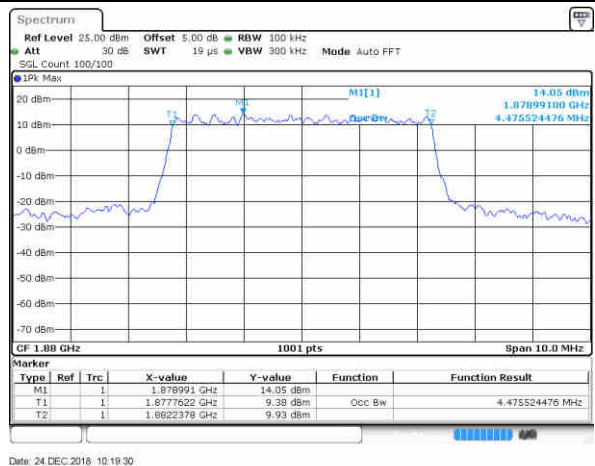
Lowest Channel / 5MHz / 16QAM



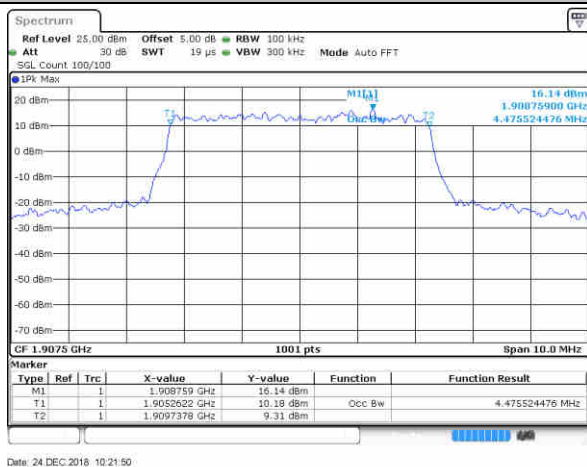
Middle Channel / 5MHz / QPSK



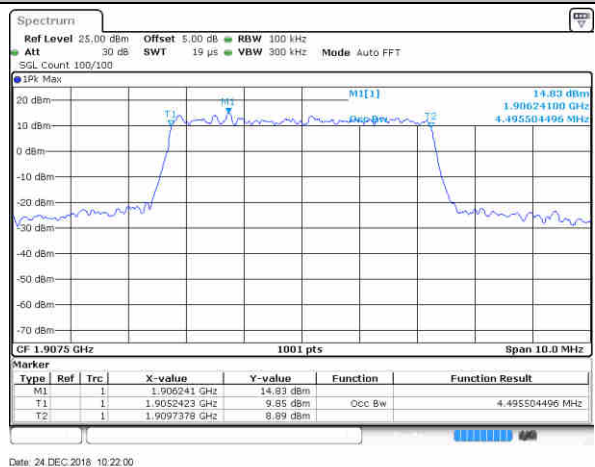
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



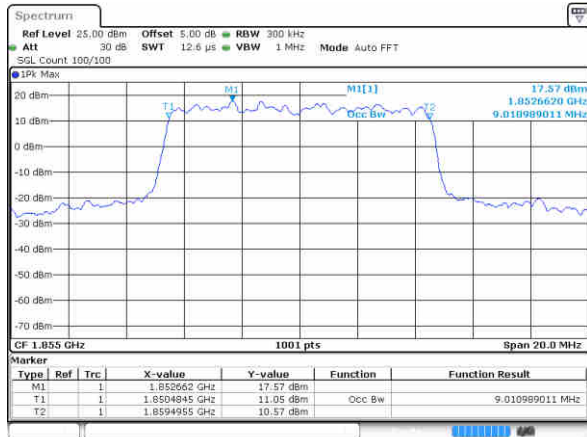
Highest Channel / 5MHz / 16QAM



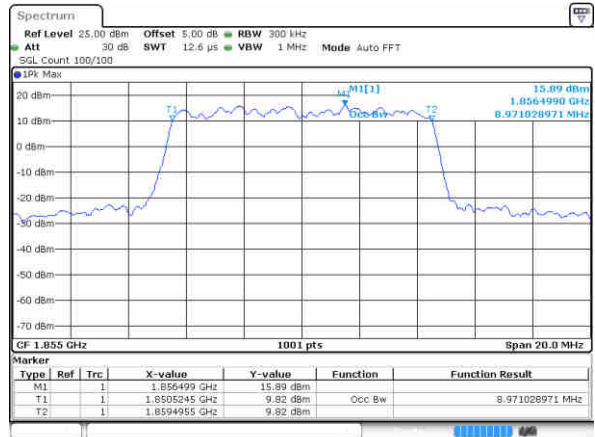


LTE Band 2

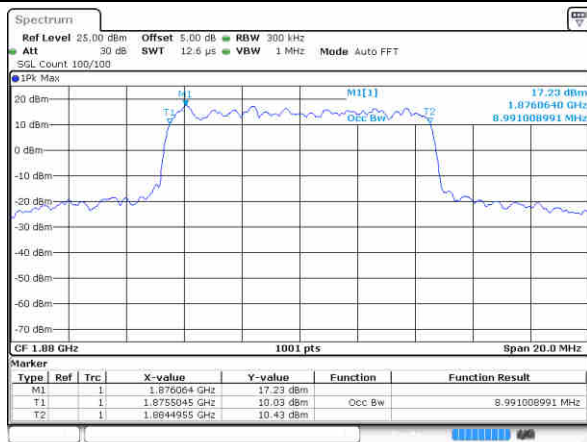
Lowest Channel / 10MHz / QPSK



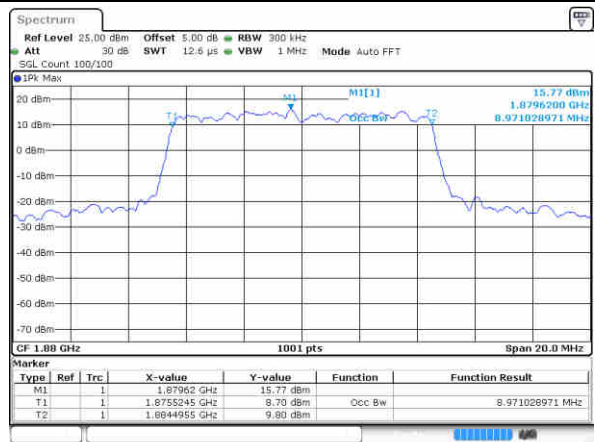
Lowest Channel / 10MHz / 16QAM



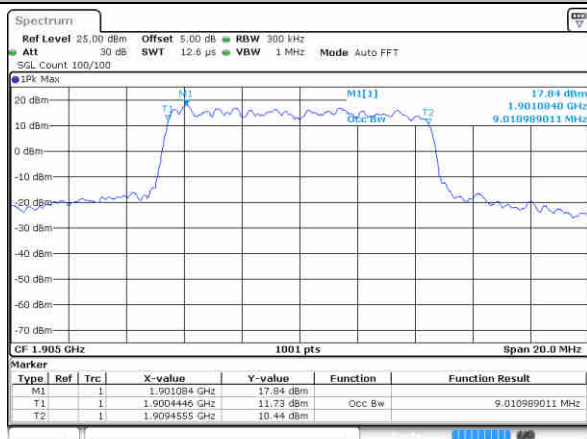
Middle Channel / 10MHz / QPSK



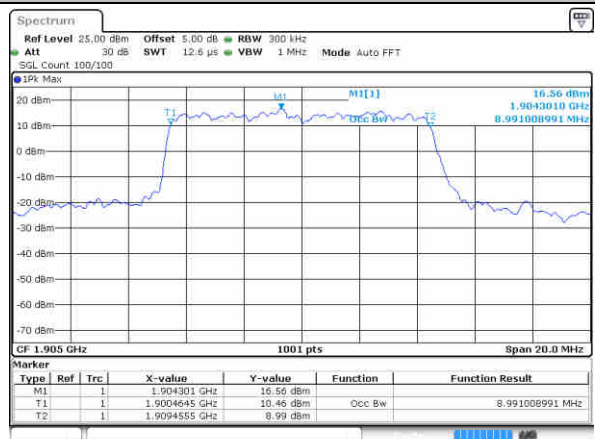
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



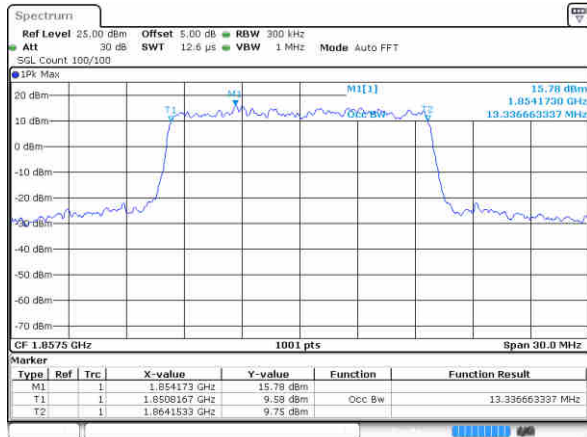
Highest Channel / 10MHz / 16QAM



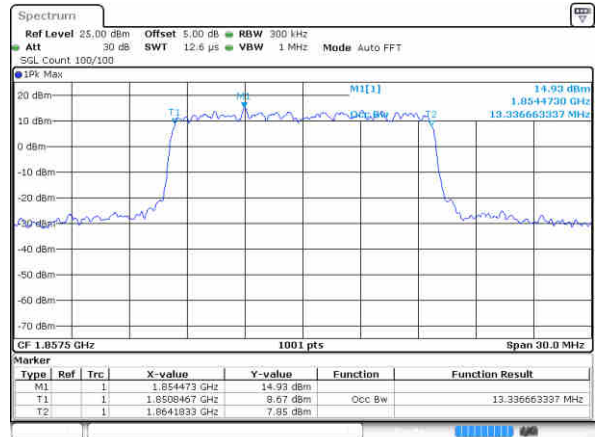


LTE Band 2

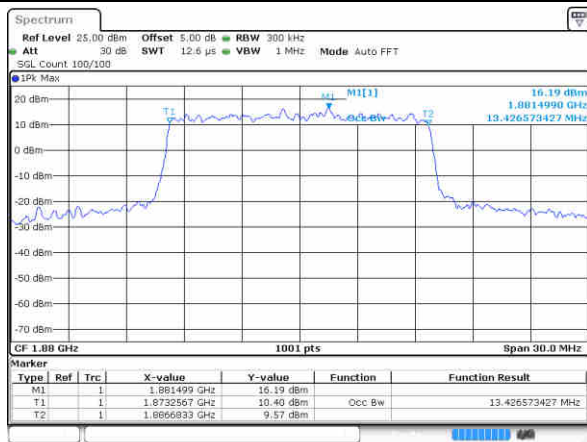
Lowest Channel / 15MHz / QPSK



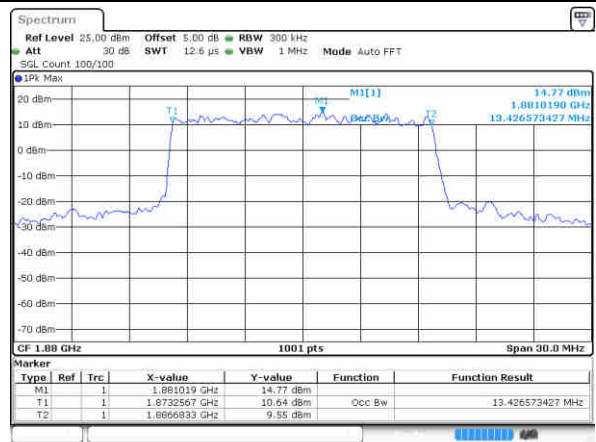
Lowest Channel / 15MHz / 16QAM



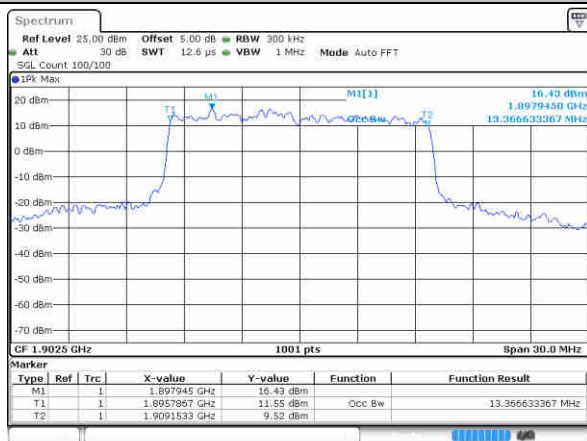
Middle Channel / 15MHz / QPSK



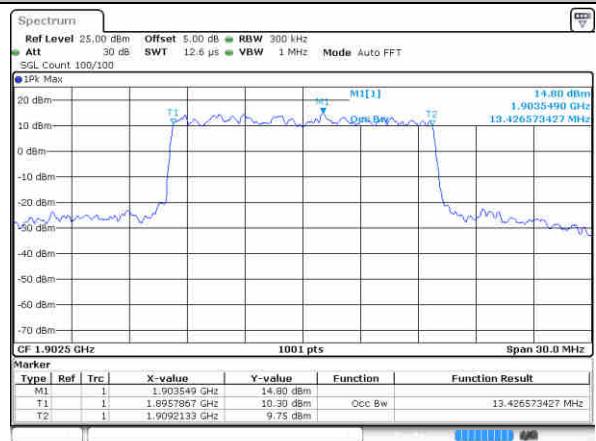
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



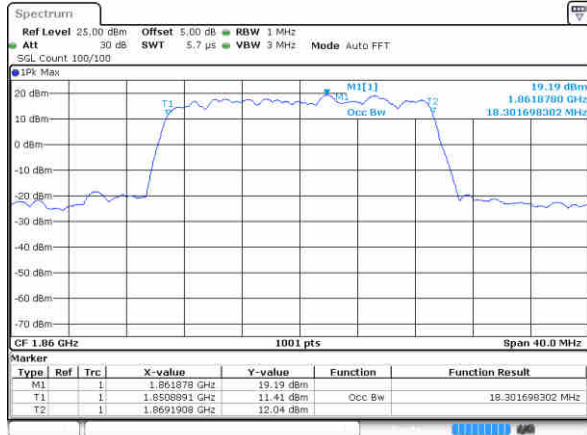
Highest Channel / 15MHz / 16QAM



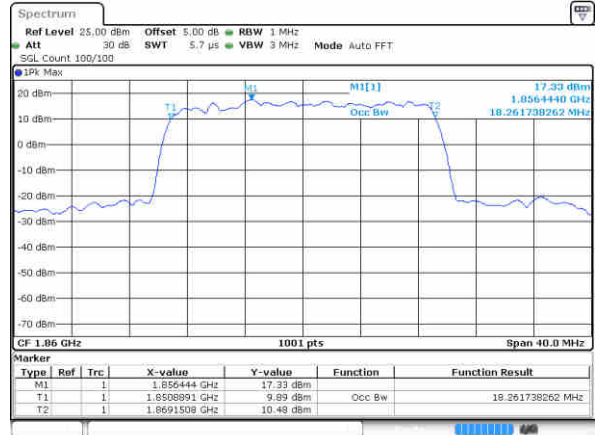


LTE Band 2

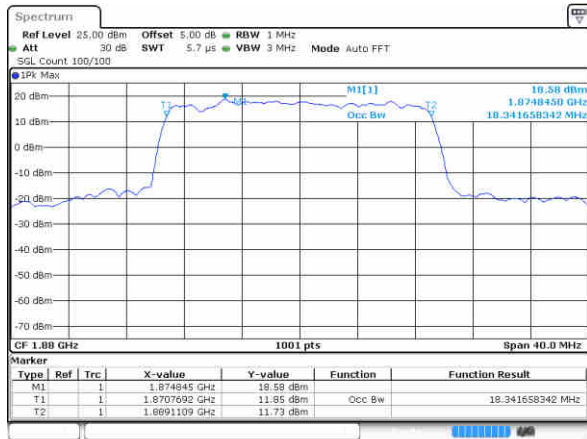
Lowest Channel / 20MHz / QPSK



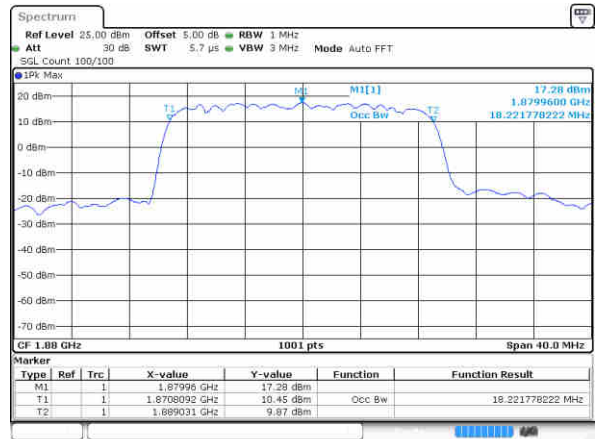
Lowest Channel / 20MHz / 16QAM



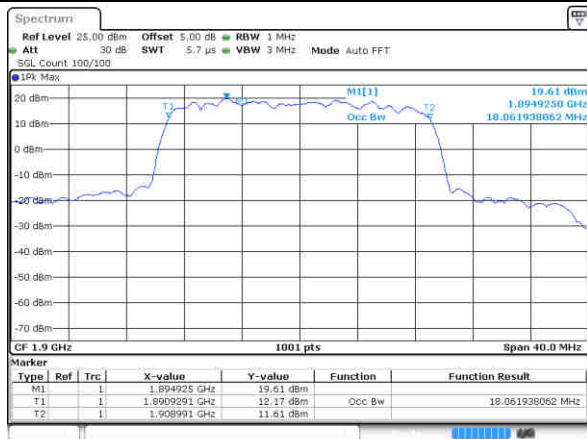
Middle Channel / 20MHz / QPSK



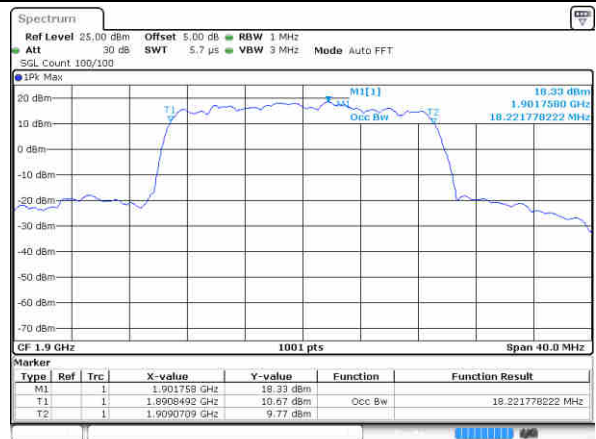
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



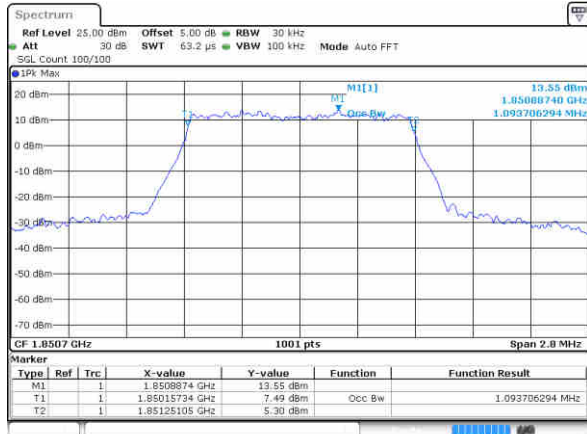
Highest Channel / 20MHz / 16QAM



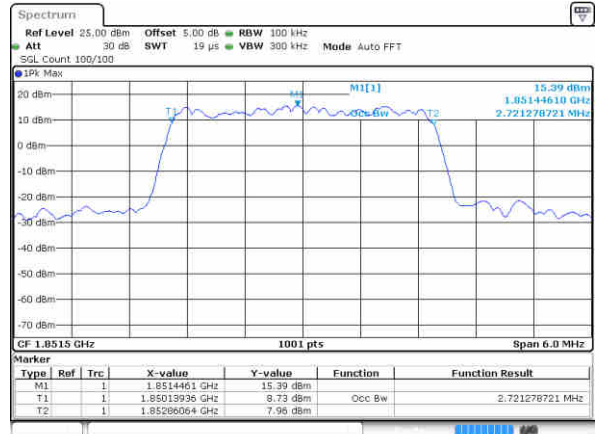


LTE Band 2

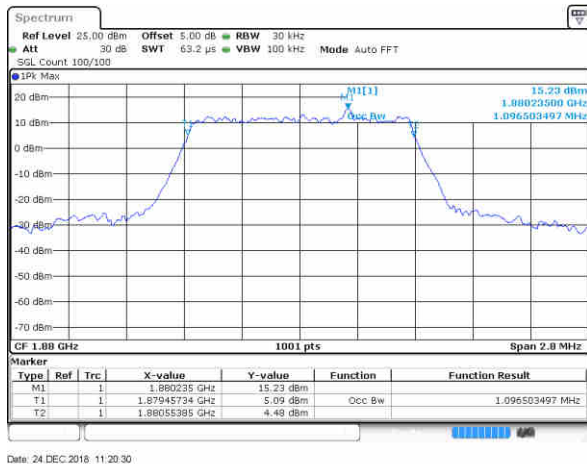
Lowest Channel / 1.4MHz / 64QAM



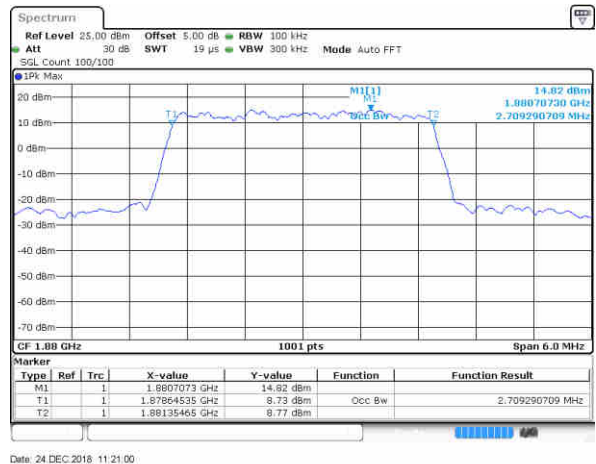
Lowest Channel / 3MHz / 64QAM



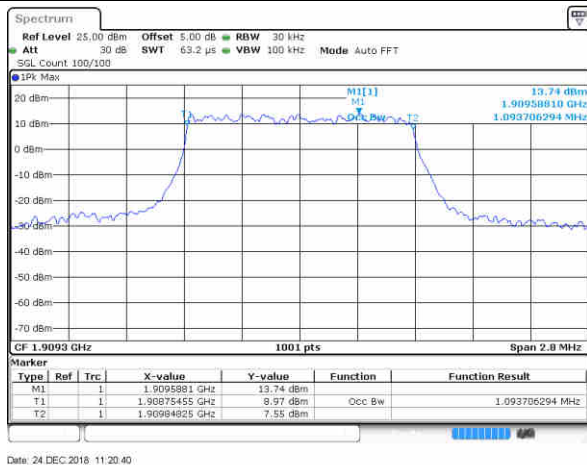
Middle Channel / 1.4MHz / 64QAM



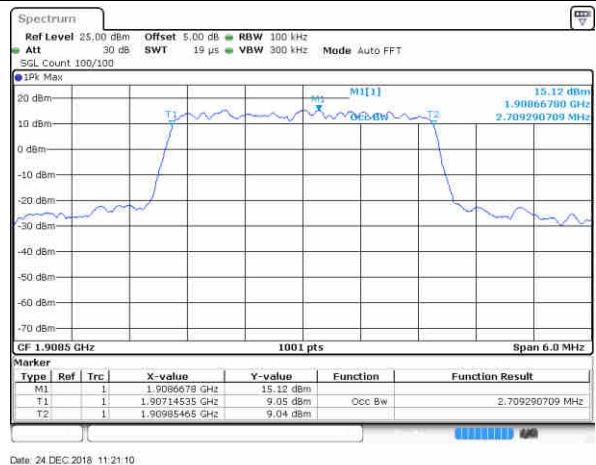
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



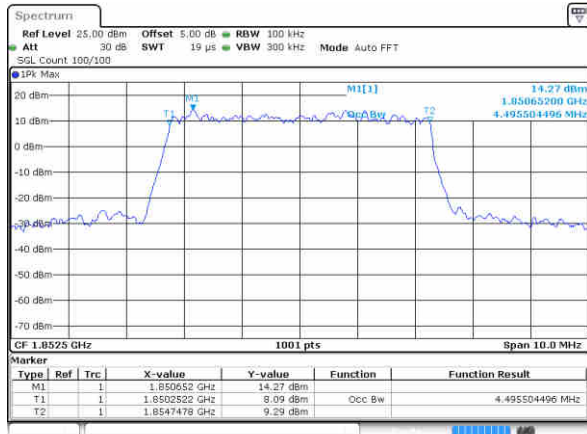
Highest Channel / 3MHz / 64QAM



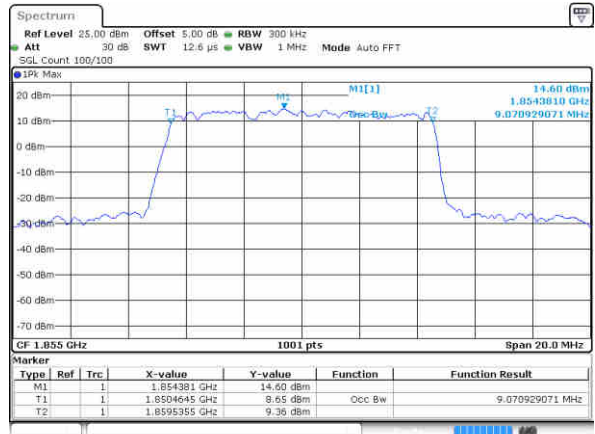


LTE Band 2

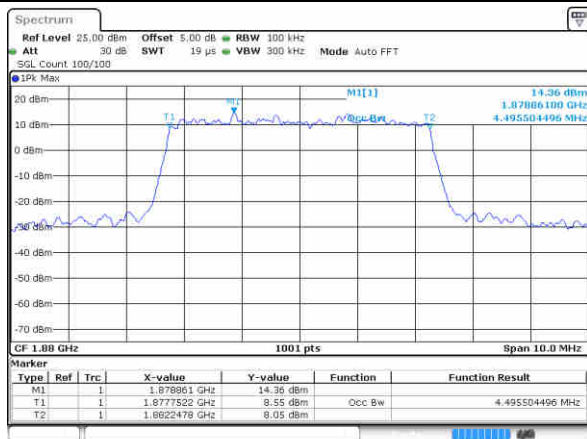
Lowest Channel / 5MHz / 64QAM



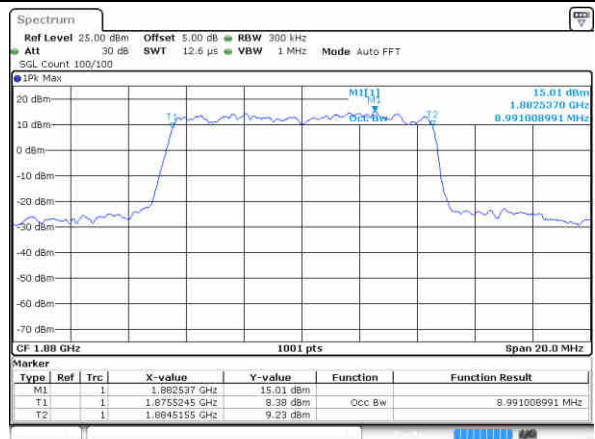
Lowest Channel / 10MHz / 64QAM



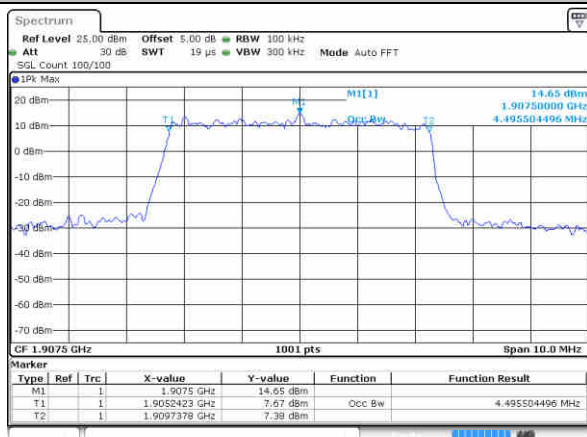
Middle Channel / 5MHz / 64QAM



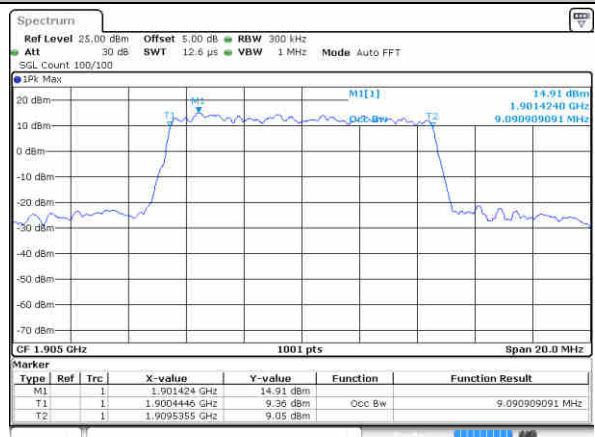
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



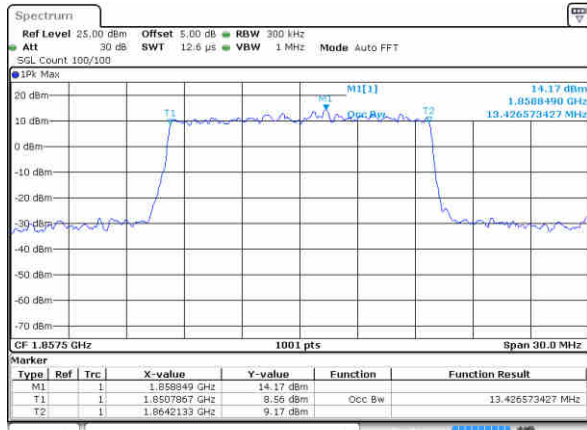
Highest Channel / 10MHz / 64QAM



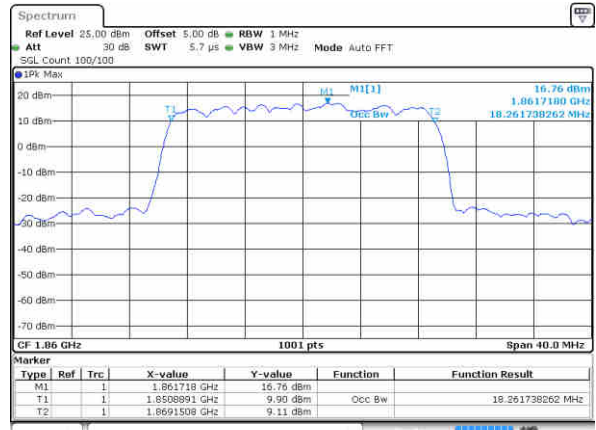


LTE Band 2

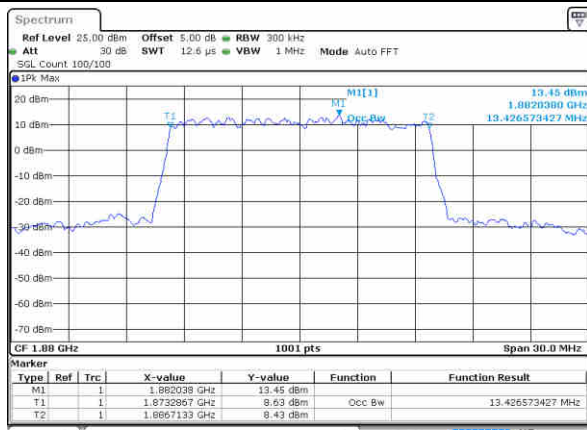
Lowest Channel / 15MHz / 64QAM



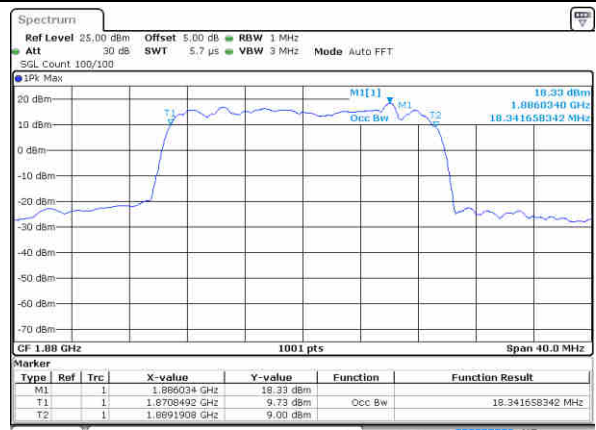
Lowest Channel / 20MHz / 64QAM



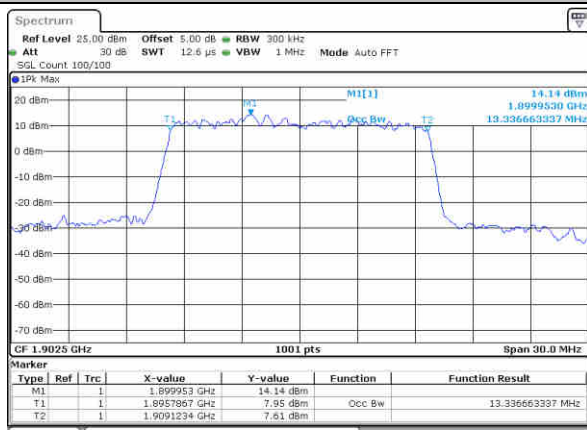
Middle Channel / 15MHz / 64QAM



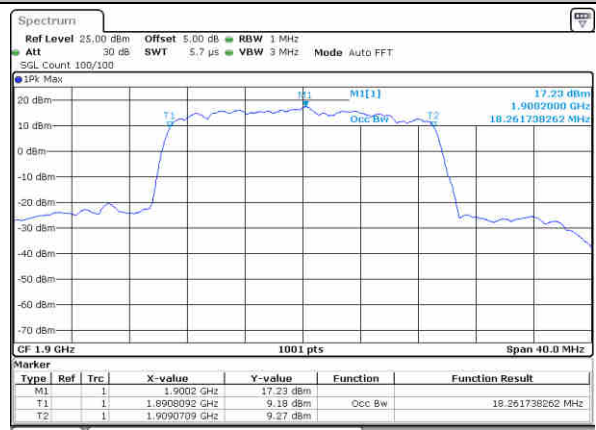
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



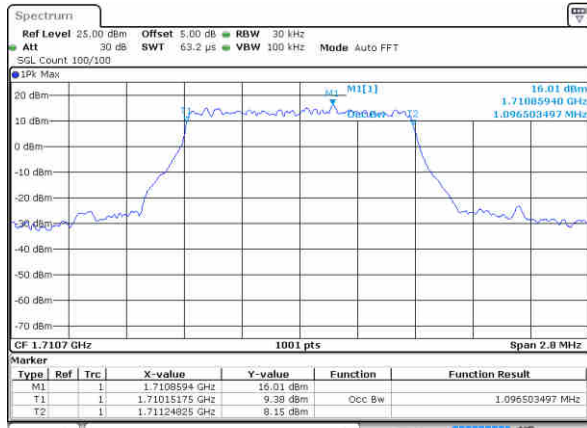
Highest Channel / 20MHz / 64QAM



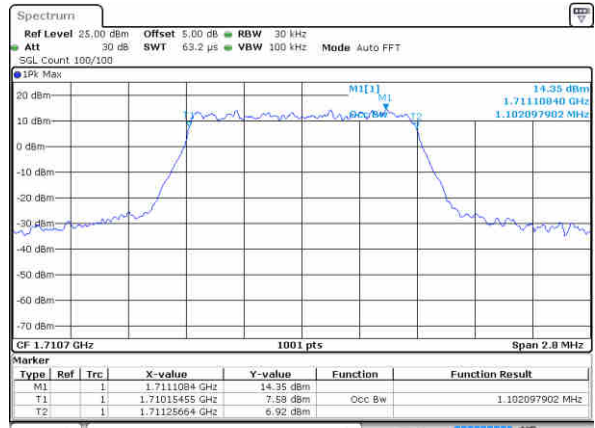


LTE Band 4

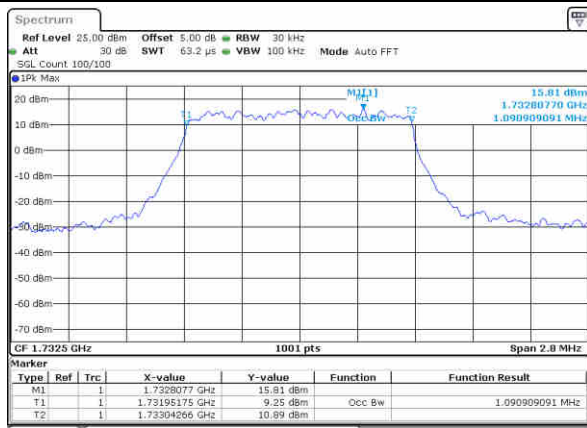
Lowest Channel / 1.4MHz / QPSK



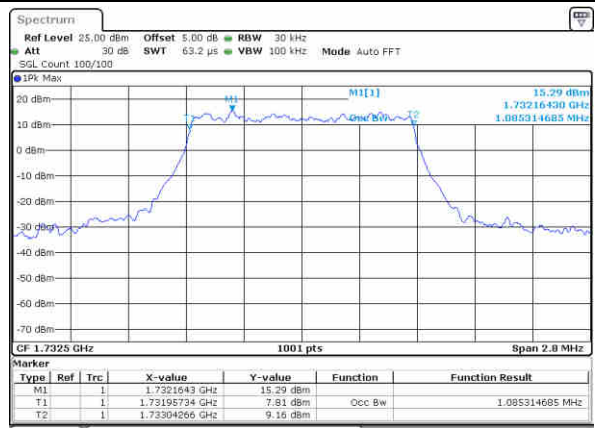
Lowest Channel / 1.4MHz / 16QAM



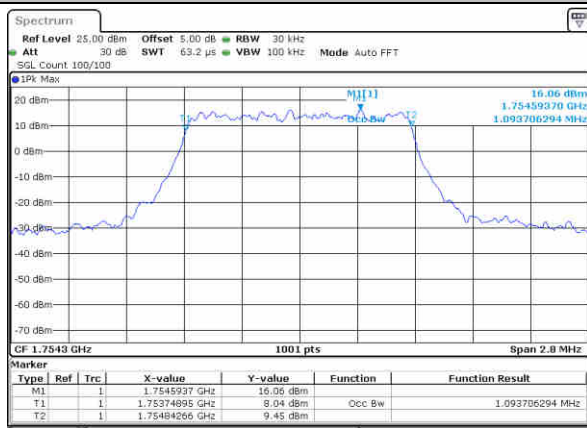
Middle Channel / 1.4MHz / QPSK



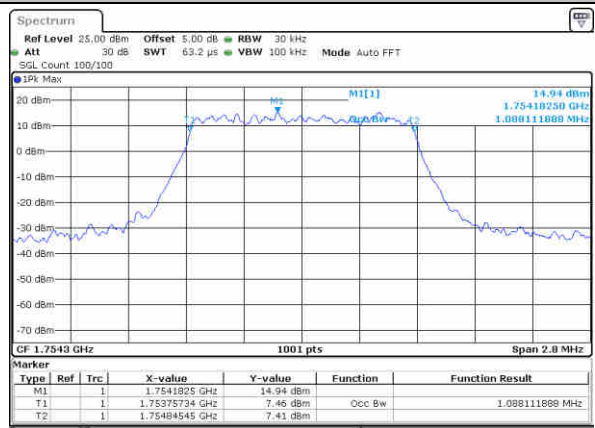
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



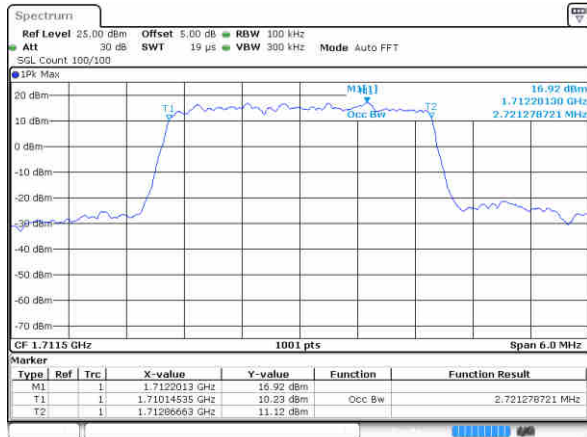
Highest Channel / 1.4MHz / 16QAM



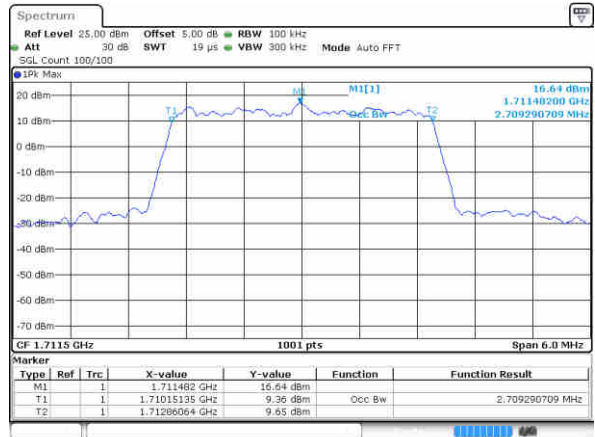


LTE Band 4

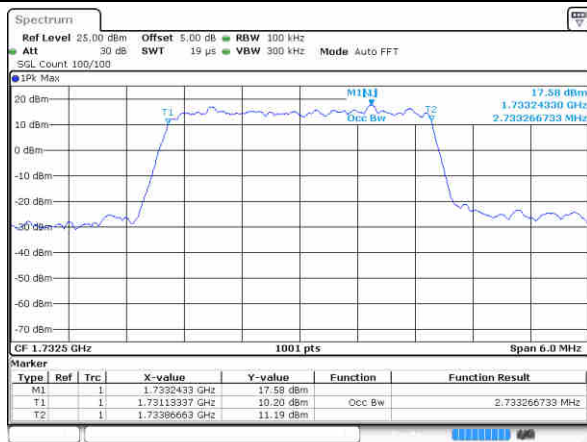
Lowest Channel / 3MHz / QPSK



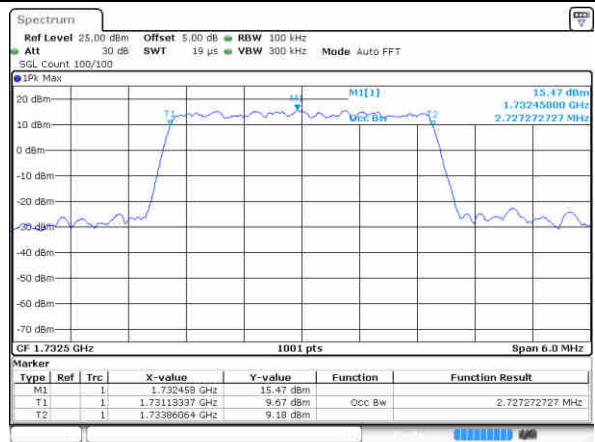
Lowest Channel / 3MHz / 16QAM



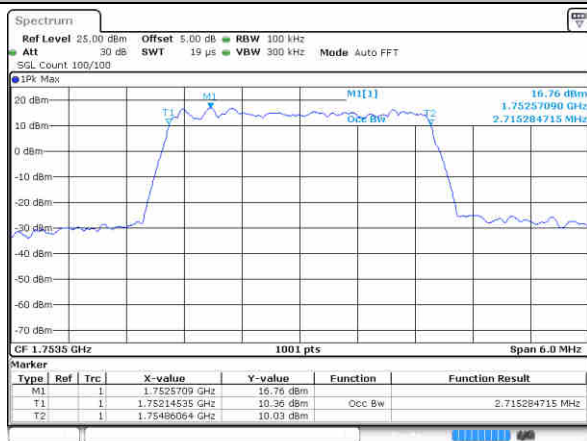
Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



Highest Channel / 3MHz / 16QAM

