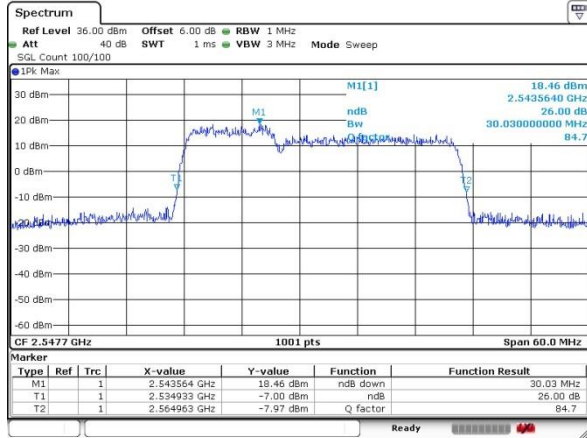




LTE Band 41

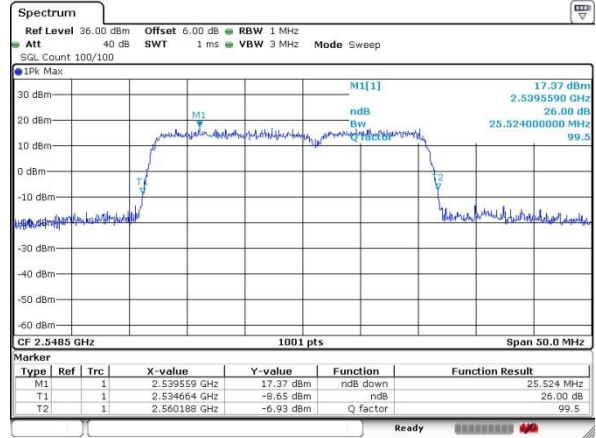
16QAM

Lowest Channel / 10MHz+20MHz



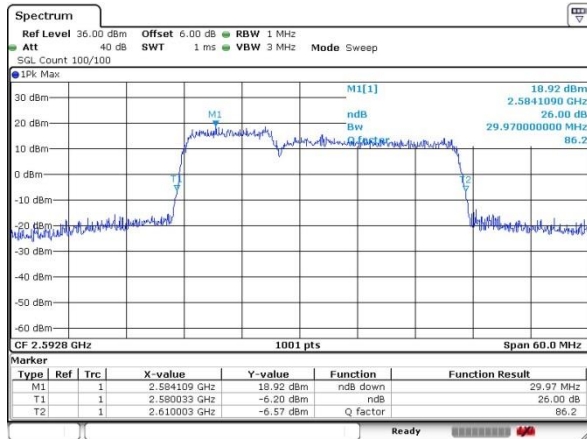
Date: 20 JUL 2019 22:09:46

Lowest Channel / 15MHz+10MHz



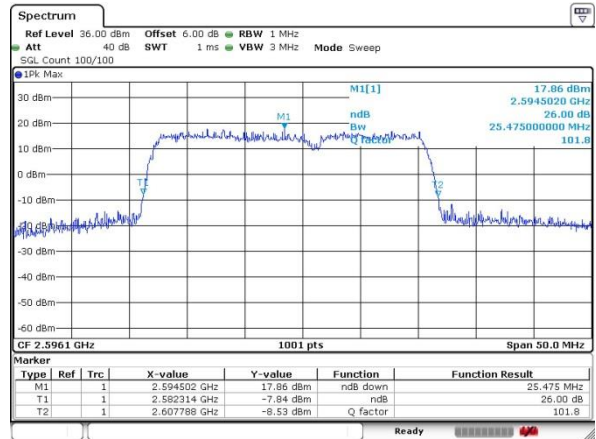
Date: 20 JUL 2019 22:01:07

Middle Channel / 10MHz+20MHz



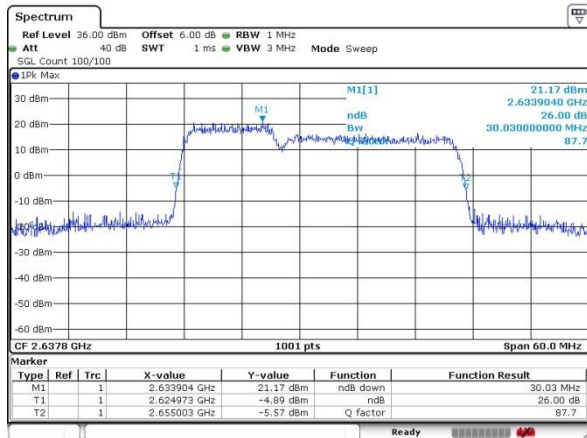
Date: 20 JUL 2019 22:12:34

Middle Channel / 15MHz+10MHz



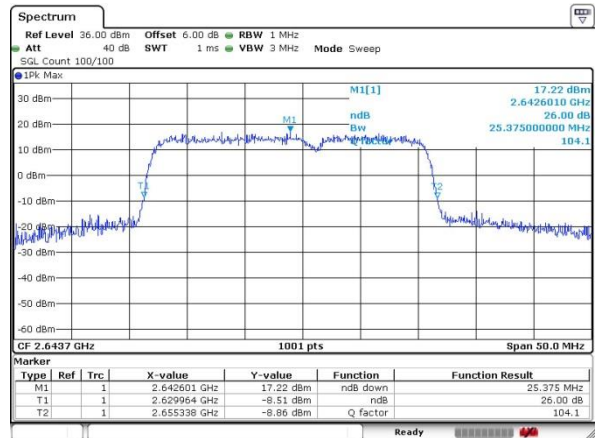
Date: 20 JUL 2019 22:02:54

Highest Channel / 10MHz+20MHz



Date: 20 JUL 2019 22:14:59

Highest Channel / 15MHz+10MHz



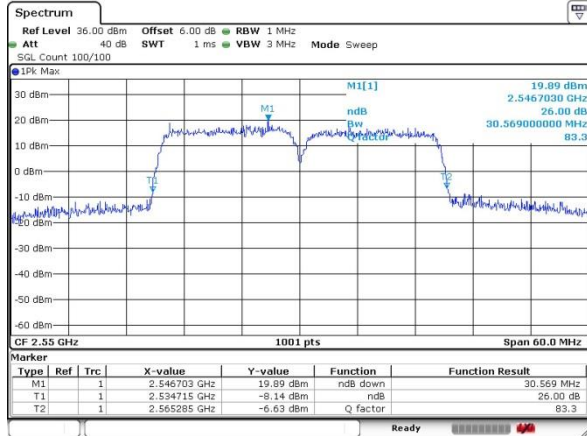
Date: 20 JUL 2019 22:05:06



LTE Band 41

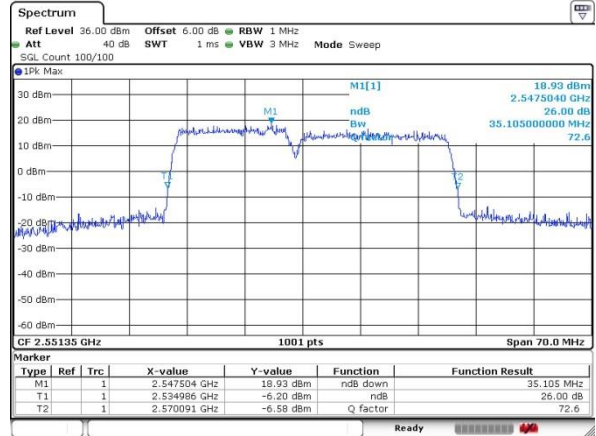
16QAM

Lowest Channel / 15MHz+15MHz



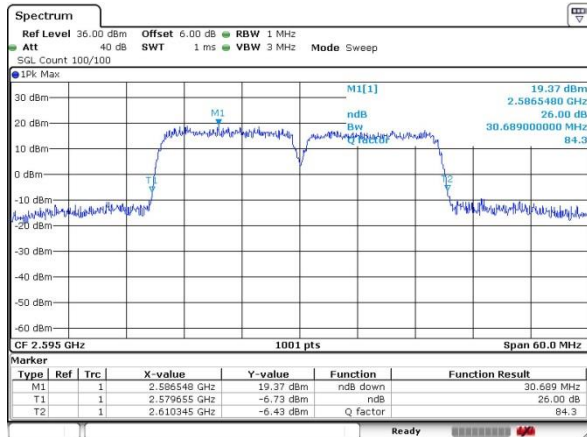
Date: 20 JUL 2019 22:31:56

Lowest Channel / 15MHz+20MHz



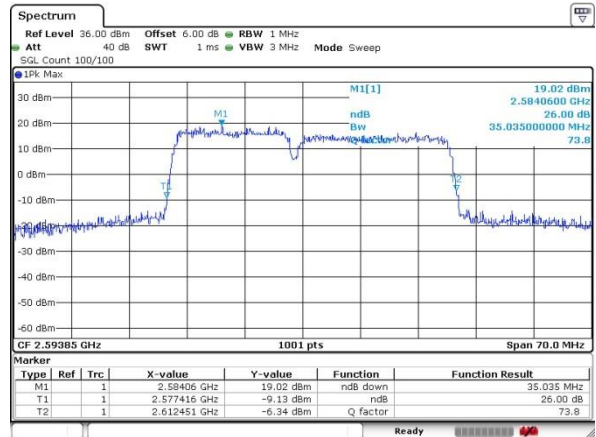
Date: 20 JUL 2019 22:49:58

Middle Channel / 15MHz+15MHz



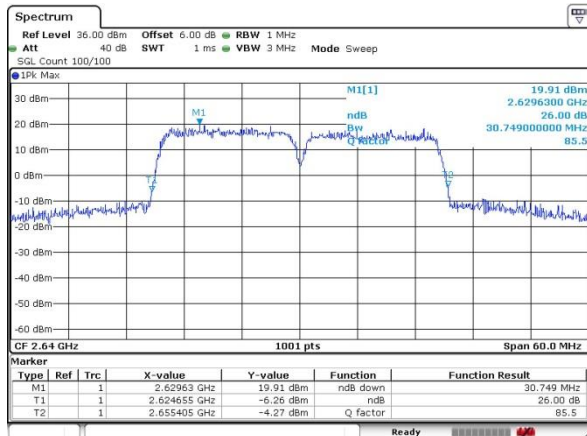
Date: 20 JUL 2019 22:33:56

Middle Channel / 15MHz+20MHz



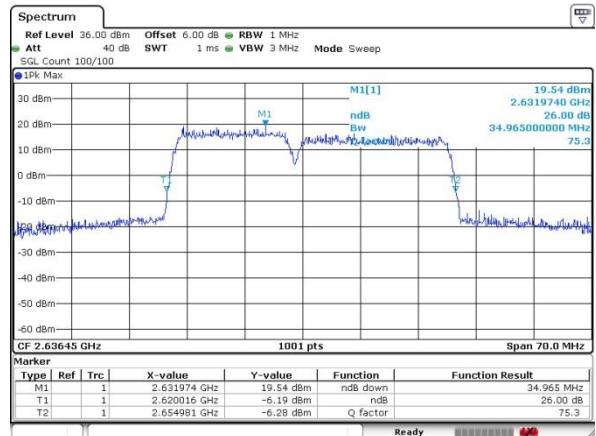
Date: 20 JUL 2019 22:52:38

Highest Channel / 15MHz+15MHz



Date: 20 JUL 2019 22:36:00

Highest Channel / 15MHz+20MHz



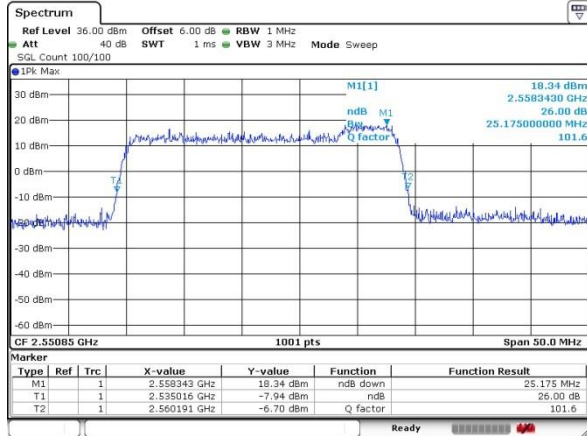
Date: 20 JUL 2019 22:54:38



LTE Band 41

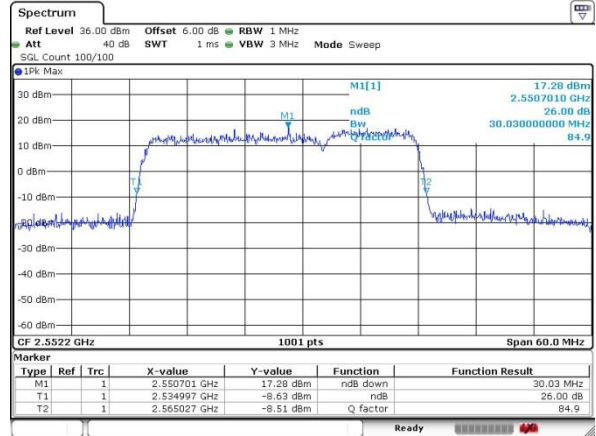
16QAM

Lowest Channel / 20MHz+5MHz



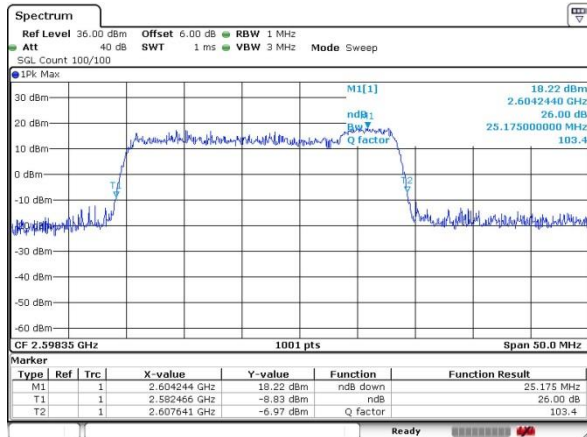
Date: 20 JUL 2019 21:44:37

Lowest Channel / 20MHz+10MHz



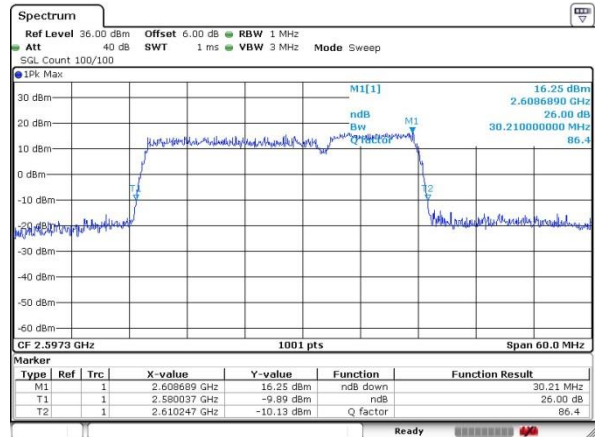
Date: 20 JUL 2019 22:17:10

Middle Channel / 20MHz+5MHz



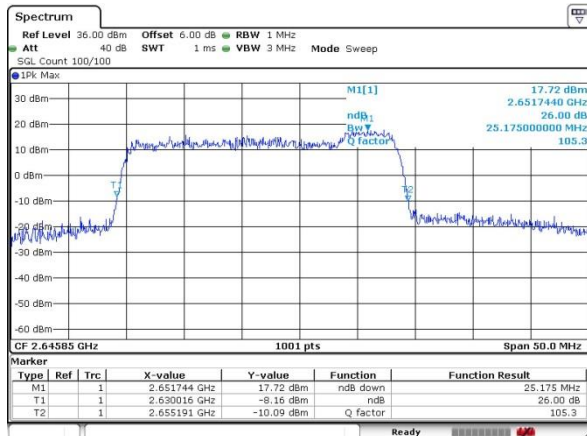
Date: 20 JUL 2019 21:49:05

Middle Channel / 20MHz+10MHz



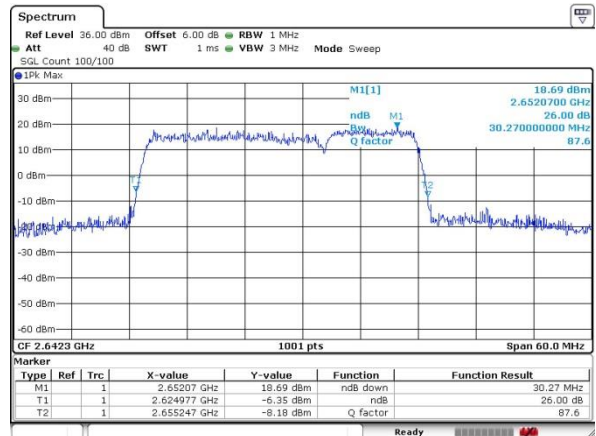
Date: 20 JUL 2019 22:19:35

Highest Channel / 20MHz+5MHz



Date: 20 JUL 2019 21:51:21

Highest Channel / 20MHz+10MHz



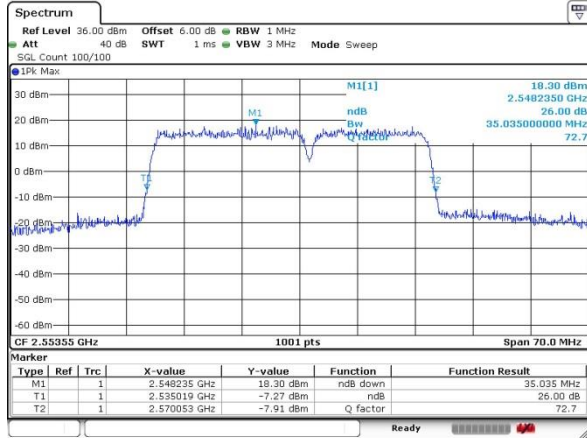
Date: 20 JUL 2019 22:21:40



LTE Band 41

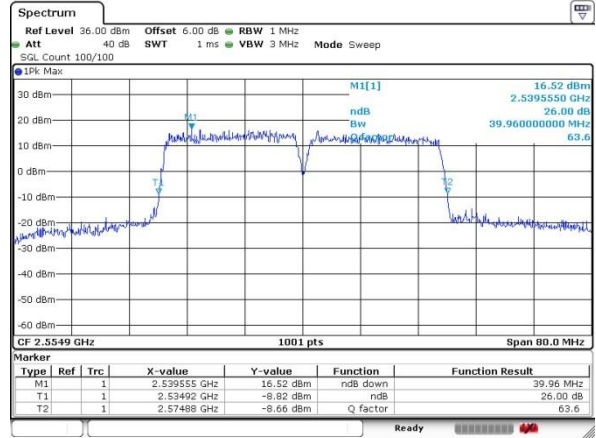
16QAM

Lowest Channel / 20MHz+15MHz



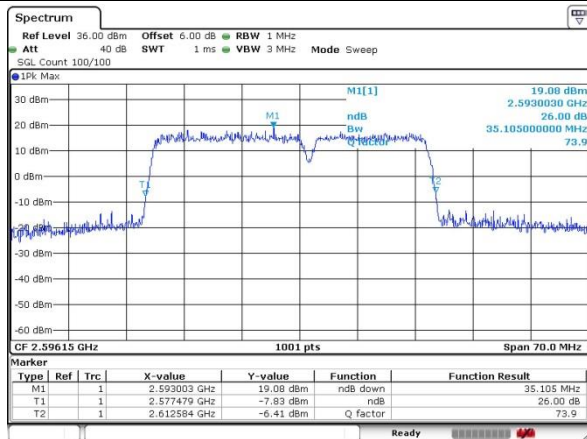
Date: 20 JUL 2019 22:58:16

Lowest Channel / 20MHz+20MHz



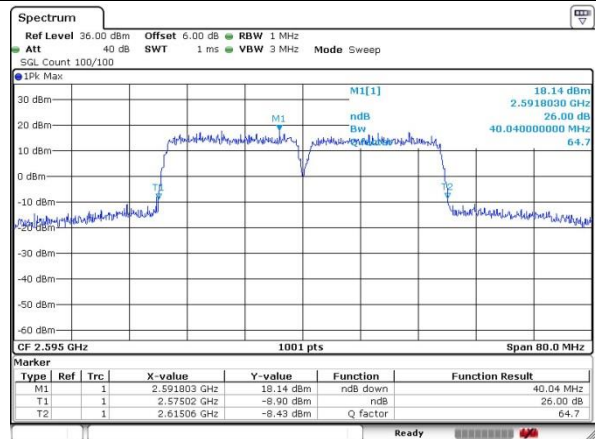
Date: 20 JUL 2019 23:15:59

Middle Channel / 20MHz+15MHz



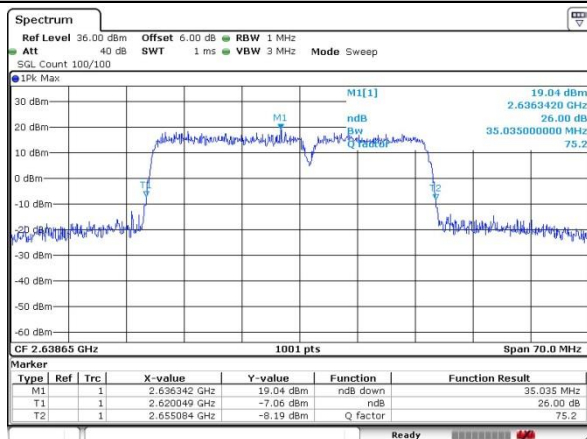
Date: 20 JUL 2019 23:01:37

Middle Channel / 20MHz+20MHz



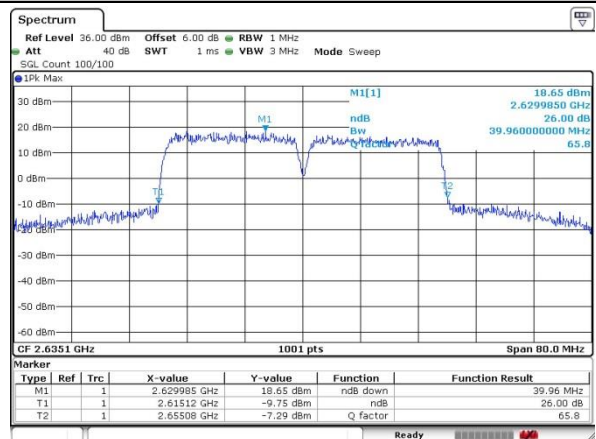
Date: 20 JUL 2019 23:20:22

Highest Channel / 20MHz+15MHz



Date: 20 JUL 2019 23:03:45

Highest Channel / 20MHz+20MHz



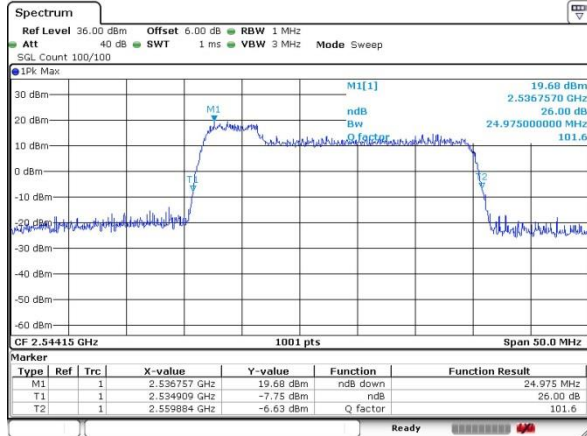
Date: 20 JUL 2019 23:22:10



LTE Band 41

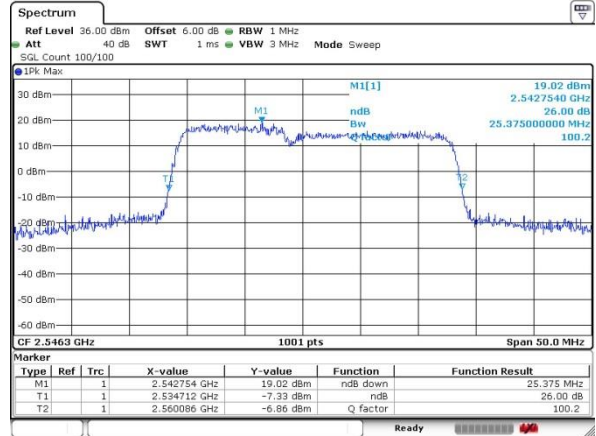
64QAM

Lowest Channel / 5MHz+20MHz



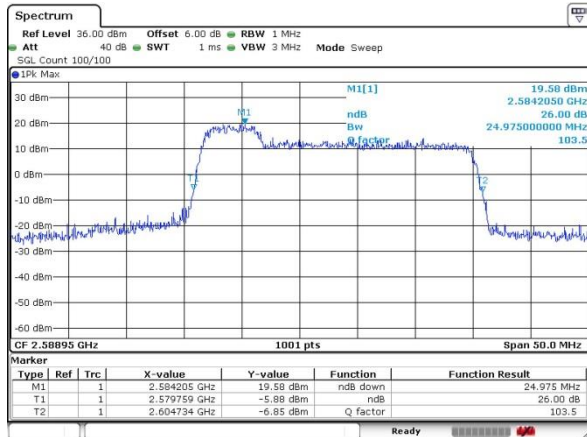
Date: 20 JUL 2019 21:31:45

Lowest Channel / 10MHz+15MHz



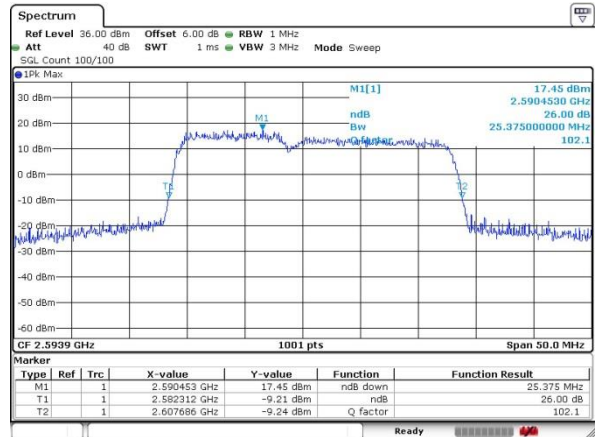
Date: 20 JUL 2019 21:55:05

Middle Channel / 5MHz+20MHz



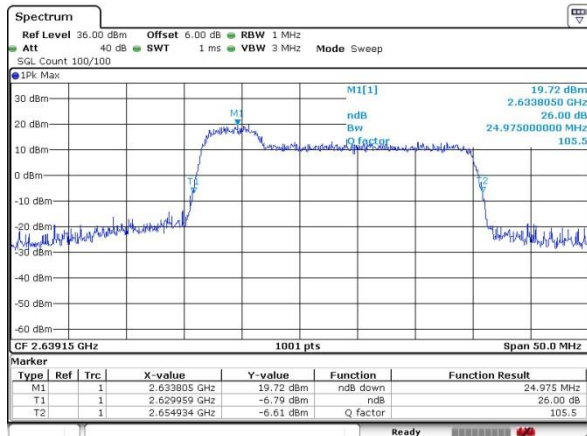
Date: 20 JUL 2019 21:32:44

Middle Channel / 10MHz+15MHz



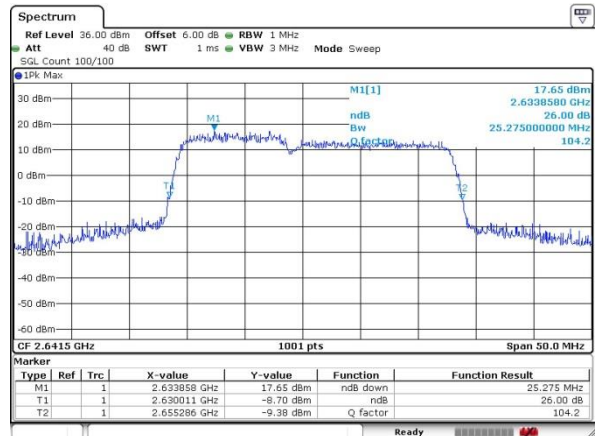
Date: 20 JUL 2019 21:56:14

Highest Channel / 5MHz+20MHz



Date: 20 JUL 2019 21:34:59

Highest Channel / 10MHz+15MHz



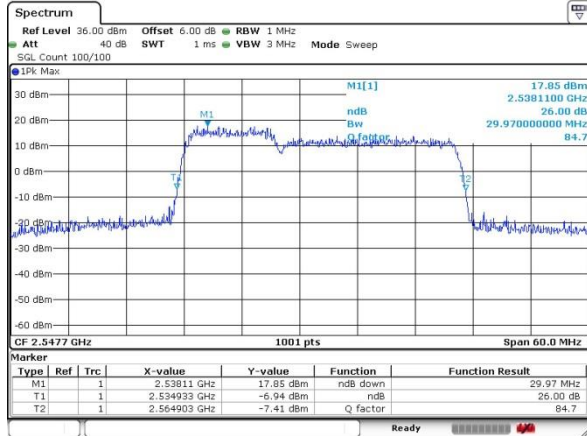
Date: 20 JUL 2019 21:59:18



LTE Band 41

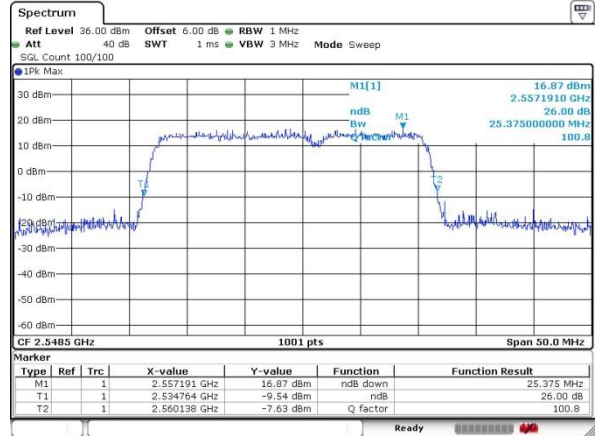
64QAM

Lowest Channel / 10MHz+20MHz



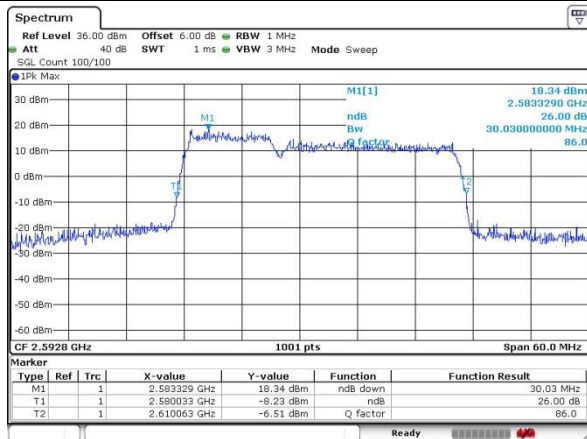
Date: 20 JUL 2019 22:10:19

Lowest Channel / 15MHz+10MHz



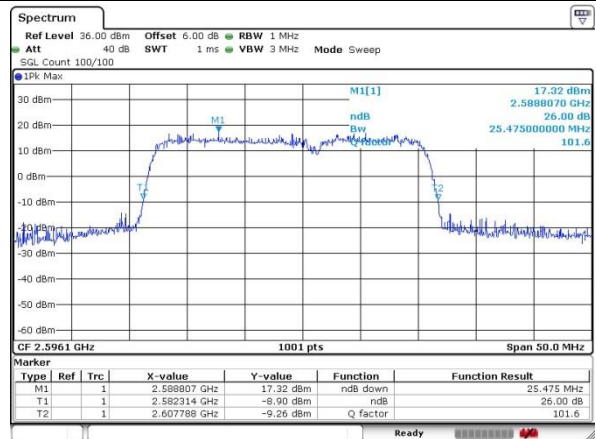
Date: 20 JUL 2019 22:00:34

Middle Channel / 10MHz+20MHz



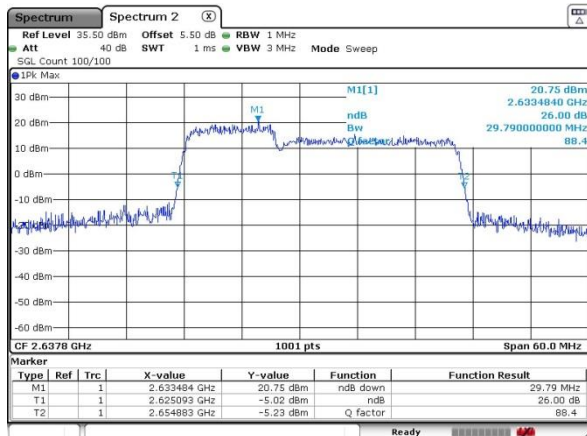
Date: 20 JUL 2019 22:12:05

Middle Channel / 15MHz+10MHz



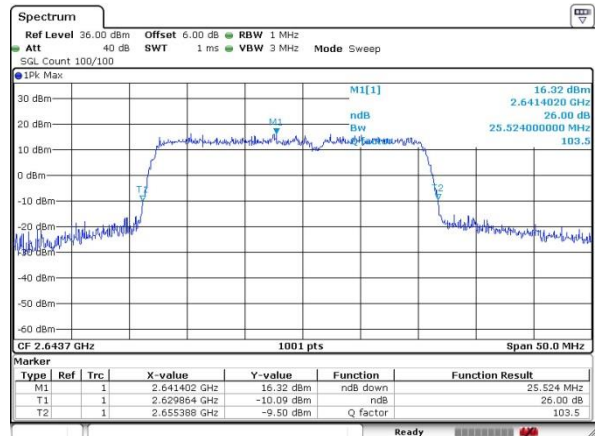
Date: 20 JUL 2019 22:03:26

Highest Channel / 10MHz+20MHz



Date: 20 JUL 2019 22:15:30

Highest Channel / 15MHz+10MHz



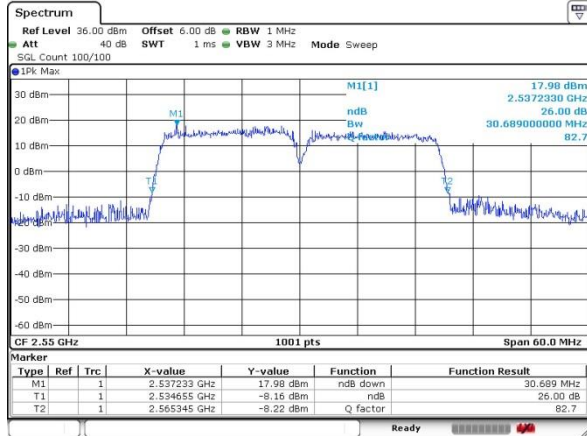
Date: 20 JUL 2019 22:04:40



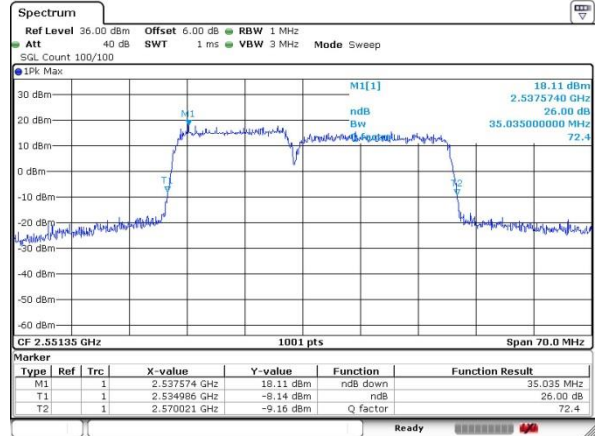
LTE Band 41

64QAM

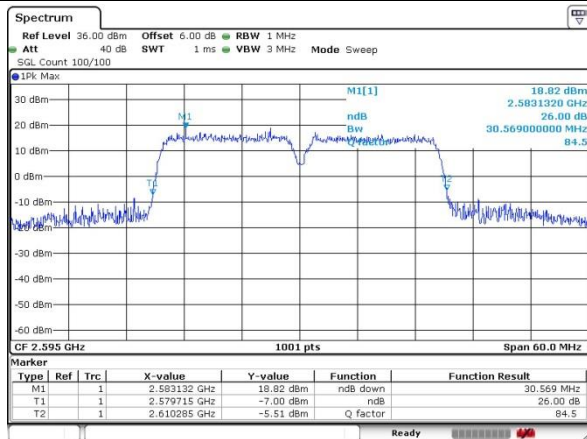
Lowest Channel / 15MHz+15MHz



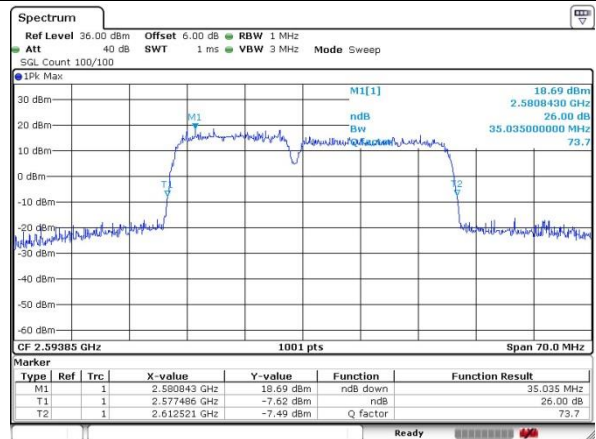
Lowest Channel / 15MHz+20MHz



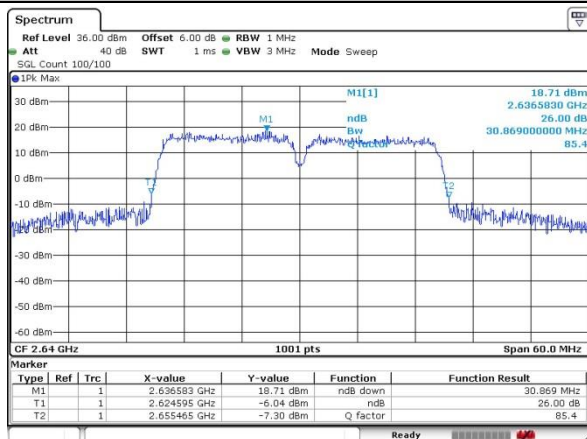
Middle Channel / 15MHz+15MHz



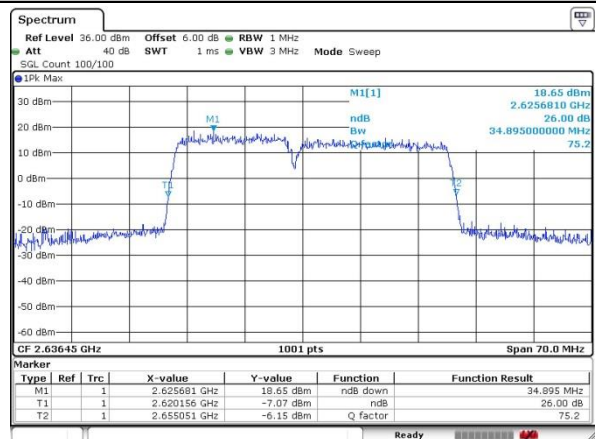
Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 15MHz+20MHz

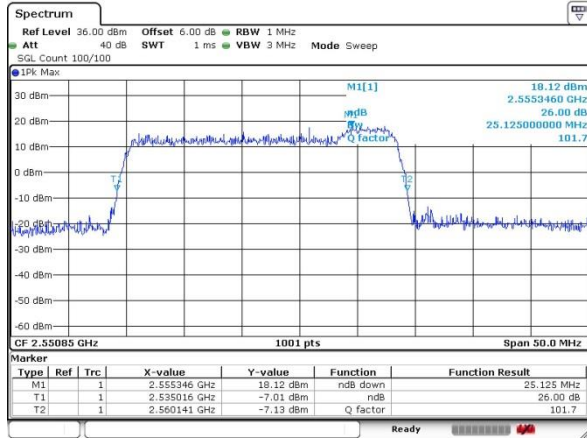




LTE Band 41

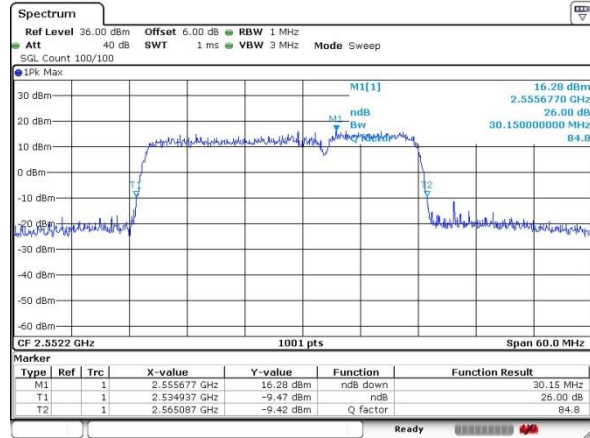
64QAM

Lowest Channel / 20MHz+5MHz



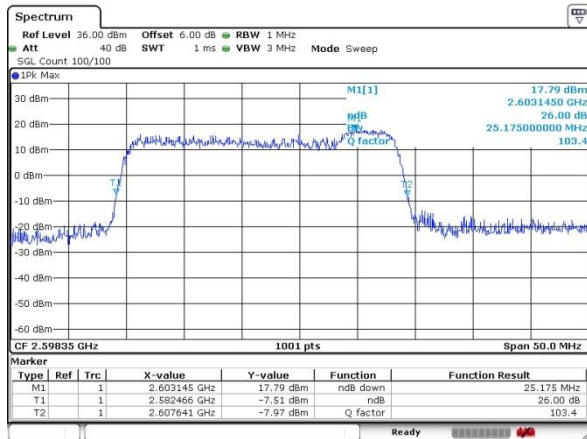
Date: 20 JUL 2019 21:43:11

Lowest Channel / 20MHz+10MHz



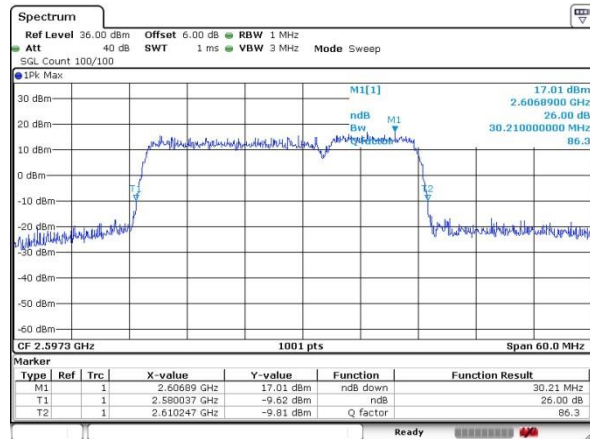
Date: 20 JUL 2019 22:16:30

Middle Channel / 20MHz+5MHz



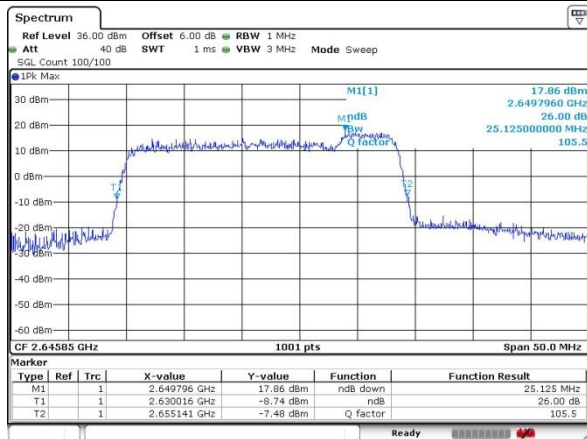
Date: 20 JUL 2019 21:49:33

Middle Channel / 20MHz+10MHz



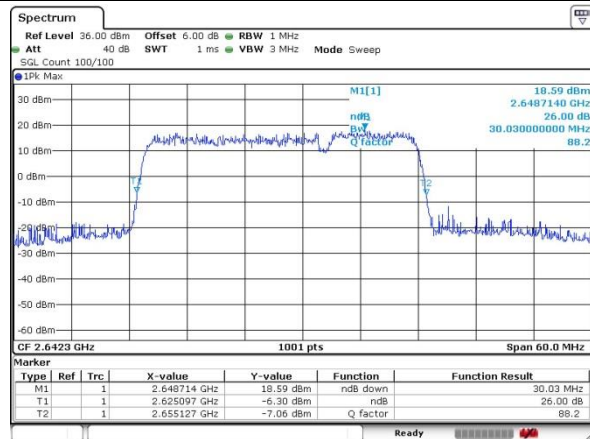
Date: 20 JUL 2019 22:20:00

Highest Channel / 20MHz+5MHz



Date: 20 JUL 2019 21:50:51

Highest Channel / 20MHz+10MHz



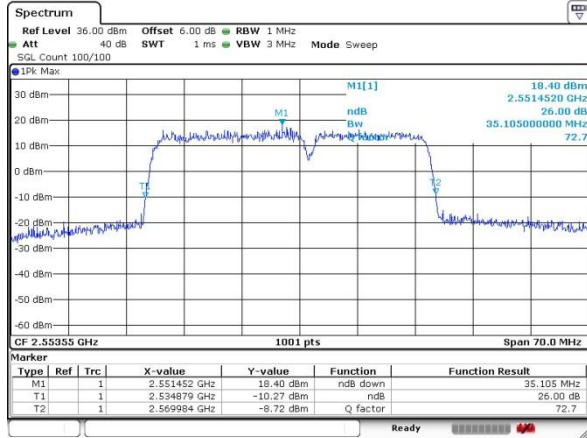
Date: 20 JUL 2019 22:21:07



LTE Band 41

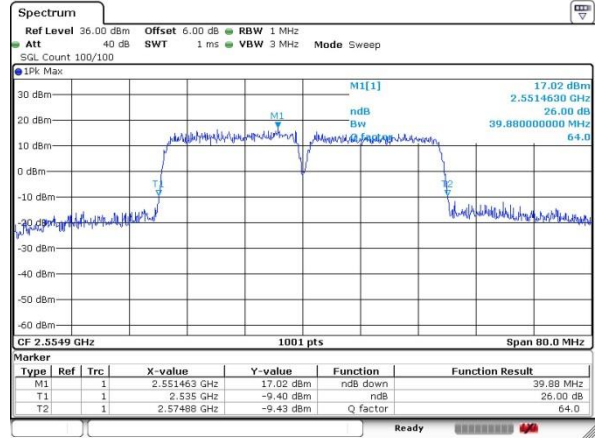
64QAM

Lowest Channel / 20MHz+15MHz



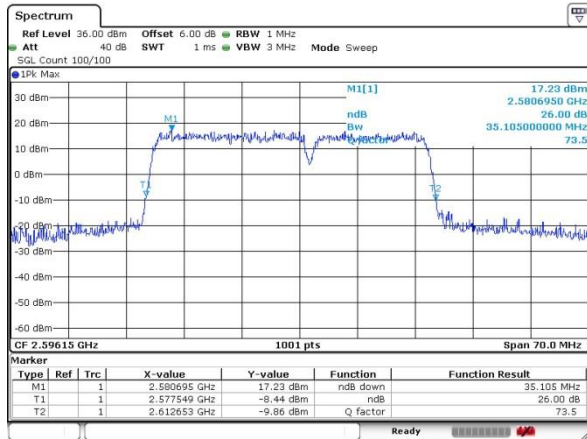
Date: 20 JUL 2019 23:00:00

Lowest Channel / 20MHz+20MHz



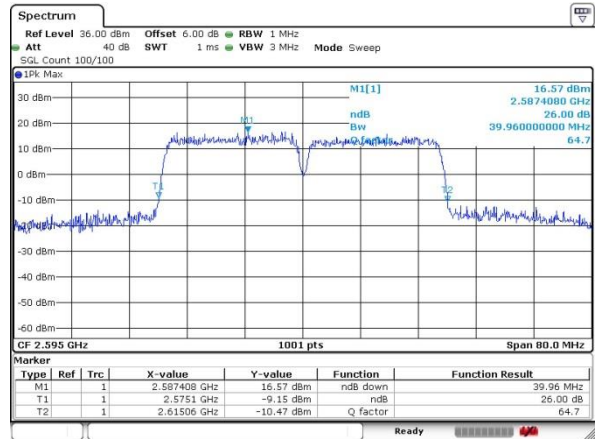
Date: 20 JUL 2019 23:15:25

Middle Channel / 20MHz+15MHz



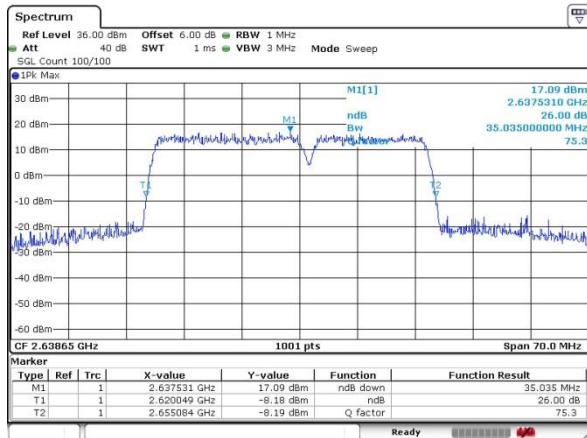
Date: 20 JUL 2019 23:01:08

Middle Channel / 20MHz+20MHz



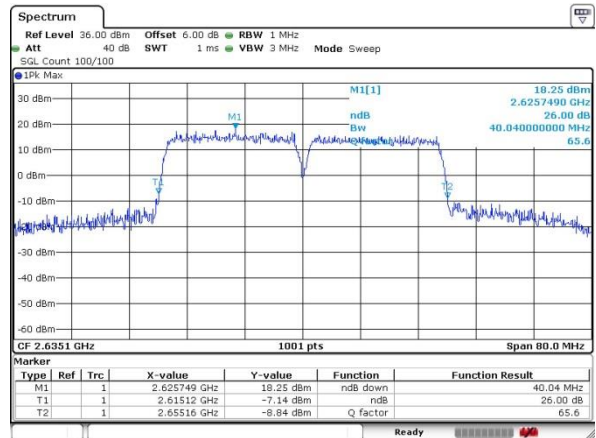
Date: 20 JUL 2019 23:20:54

Highest Channel / 20MHz+15MHz



Date: 20 JUL 2019 23:04:15

Highest Channel / 20MHz+20MHz



Date: 20 JUL 2019 23:21:49



Occupied Bandwidth

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					4.49	4.48	9.01	8.99	13.43	13.46	18.54	18.30
Middle CH					4.49	4.52	9.03	8.99	13.52	13.49	18.42	18.38
Highest CH					4.50	4.50	9.05	9.01	13.49	13.46	18.46	18.30
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.					64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.47		9.01		13.49		18.42	
Middle CH					4.47		9.01		13.40		18.46	
Highest CH					4.48		9.03		13.43		18.22	

Mode	LTE Band 12 : 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	2.71	4.51	4.50	9.05	9.01				
Middle CH	1.08	1.10	2.70	2.71	4.47	4.50	9.07	9.03				
Highest CH	1.09	1.09	2.72	2.72	4.49	4.49	9.07	9.03				
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	64QAM		64QAM		64QAM		64QAM					
Lowest CH	1.08		2.72		4.50		8.99					
Middle CH	1.09		2.72		4.51		9.01					
Highest CH	1.10		2.72		4.49		8.99					



Mode	LTE Band 13 : 99%OBW(MHz)											
BW					5MHz		10MHz					
Mod.					QPSK	16QAM	QPSK	16QAM				
Lowest CH					4.48	4.49						
Middle CH					4.48	4.47	8.97	9.05				
Highest CH					4.49	4.50						
Mode	LTE Band 13 : 99%OBW(MHz)											
BW					5MHz		10MHz					
Mod.					64QAM		64QAM					
Lowest CH					4.50							
Middle CH					4.47		9.01					
Highest CH					4.51							

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	1.10	1.09	2.72	2.73	4.49	4.50	9.01	9.01	13.43	13.49	18.30	18.10
Middle CH	1.09	1.09	2.71	2.72	4.50	4.49	8.99	9.07	13.40	13.43	18.34	18.50
Highest CH	1.09	1.09	2.70	2.72	4.48	4.51	9.03	9.07	13.43	13.43	18.34	18.38
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.73		4.49		9.05		13.40		18.26	
Middle CH	1.09		2.73		4.50		9.01		13.46		18.42	
Highest CH	1.08		2.72		4.50		8.99		13.37		18.42	

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	1.10	1.09	2.72	2.71	4.48	4.48	9.03	8.99	13.37	13.49	13.46	13.43
Middle CH	1.09	1.10	2.72	2.72	4.50	4.51	9.07	9.01	13.46	13.40		
Highest CH	1.08	1.09	2.71	2.72	4.48	4.51	9.17	9.07	13.43	13.43		
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		CH26765	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.72		4.50		8.97		13.43		13.43	
Middle CH	1.09		2.73		4.49		9.09		13.40			
Highest CH	1.09		2.72		4.52		8.95		13.43			



Mode	LTE Band 41 : 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					4.50	4.49	9.09	9.05	13.40	13.58	18.34	18.54
Middle CH					4.51	4.49	9.01	9.03	13.43	13.52	18.46	18.26
Highest CH					4.48	4.49	9.07	9.07	13.46	13.43	18.46	18.34
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.52		8.95		13.49		18.30	
Middle CH					4.49		8.99		13.49		18.50	
Highest CH					4.48		9.01		13.43		18.58	

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	1.09	2.72	2.71	4.50	4.48	9.03	9.05	13.52	13.43	18.26	18.34
Middle CH	1.10	1.09	2.72	2.71	4.49	4.48	9.01	9.01	13.40	13.43	18.58	18.30
Highest CH	1.09	1.09	2.72	2.72	4.52	4.49	9.01	8.99	13.46	13.46	18.34	18.30
Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.73		4.50		9.01		13.46		18.42	
Middle CH	1.09		2.71		4.49		9.07		13.40		18.34	
Highest CH	1.10		2.73		4.49		9.07		13.40		18.42	

Mode	LTE Band 71 : 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	4.49	4.51	9.09	8.99	13.37	13.43	18.26	18.10	4.47	9.03	13.43	18.22
Middle CH	4.50	4.48	9.07	9.03	13.37	13.43	18.34	18.42	4.52	9.03	13.43	18.34
Highest CH	4.50	4.50	9.05	9.01	13.43	13.46	18.38	18.50	4.49	9.03	13.40	18.46



For CA

Mode	LTE Band 7 : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz		15MHz+10MHz	15MHz+15MHz
Lowest CH	27.572430		23.376620	28.531470
Middle CH	27.692310		23.376620	28.531470
Highest CH	28.051950		23.426570	28.651350
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.797200	27.872130	32.727270	37.802200
Middle CH	32.867130	27.692310	32.867130	37.482520
Highest CH	32.307690	27.932070	32.517480	37.802200

Mode	LTE Band 7 : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz		15MHz+10MHz	15MHz+15MHz
Lowest CH	27.752250		23.326670	28.291710
Middle CH	28.171830		23.376620	28.471530
Highest CH	27.932070		23.376620	28.771230
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	33.006990	28.051950	32.657340	37.482520
Middle CH	32.797200	27.812190	32.867130	37.482520
Highest CH	32.237760	27.992010	32.657340	37.482520

Mode	LTE Band 7 : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz		15MHz+10MHz	15MHz+15MHz
Lowest CH	27.992010		23.476520	28.351650
Middle CH	27.932070		23.276720	28.651350
Highest CH	27.932070		23.426570	28.531470
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.587410	27.992010	32.587410	37.562440
Middle CH	32.867130	28.171830	32.727270	37.482520
Highest CH	32.867130	27.812190	32.377620	37.722280



Mode	LTE Band 41 : 99%OBW(MHz)				
QPSK					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	23.32	23.52	27.99	23.52	28.71
Middle CH	23.32	23.52	28.05	23.57	28.71
Highest CH	23.37	23.47	27.99	23.57	28.65
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.79	23.42	28.11	32.86	37.80
Middle CH	32.93	23.47	28.17	32.93	37.96
Highest CH	32.87	23.52	28.17	32.86	37.80

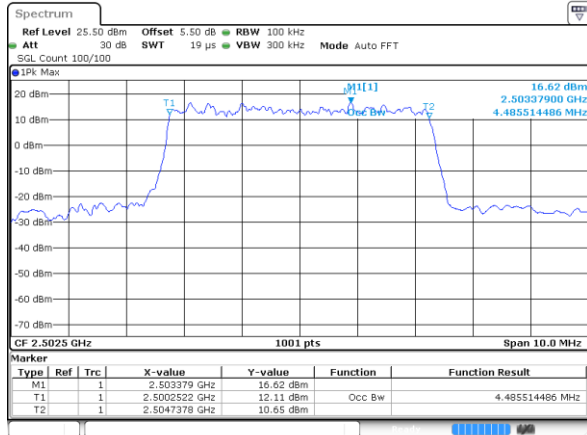
Mode	LTE Band 41 : 99%OBW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	23.32	23.52	28.11	23.52	28.65
Middle CH	23.27	23.47	28.11	23.47	28.77
Highest CH	23.27	23.62	28.11	23.52	28.71
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.86	23.42	27.99	32.86	37.72
Middle CH	32.93	23.32	28.17	32.86	37.72
Highest CH	32.86	23.37	28.29	32.86	37.88

Mode	LTE Band 41 : 99%OBW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	23.32	23.47	28.17	23.52	28.59
Middle CH	23.32	23.52	28.05	23.47	28.65
Highest CH	23.32	23.47	27.99	23.52	28.59
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.79	23.32	28.05	32.79	37.64
Middle CH	32.86	23.22	28.17	32.79	37.88
Highest CH	32.93	23.32	28.17	32.86	37.72

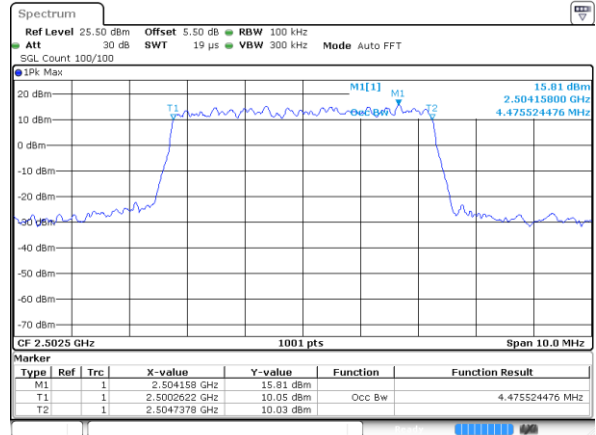


LTE Band 7

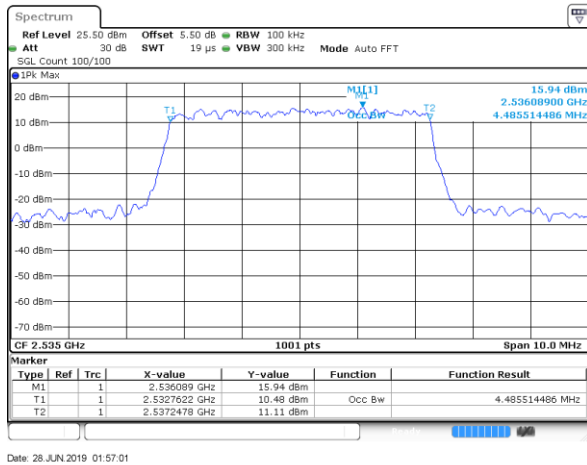
Lowest Channel / 5MHz / QPSK



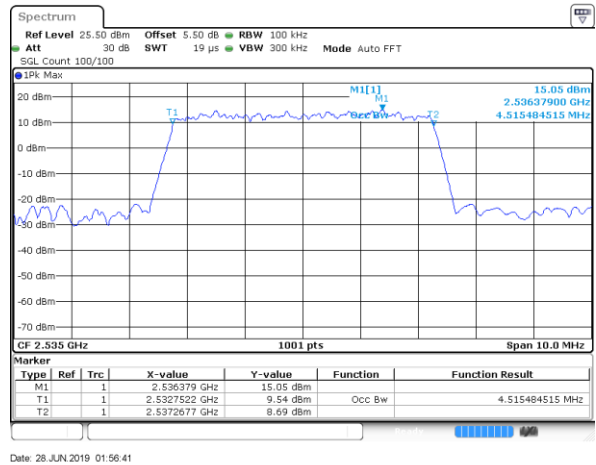
Lowest Channel / 5MHz / 16QAM



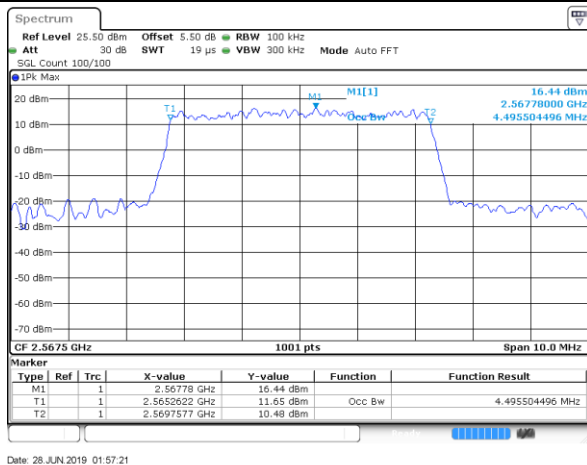
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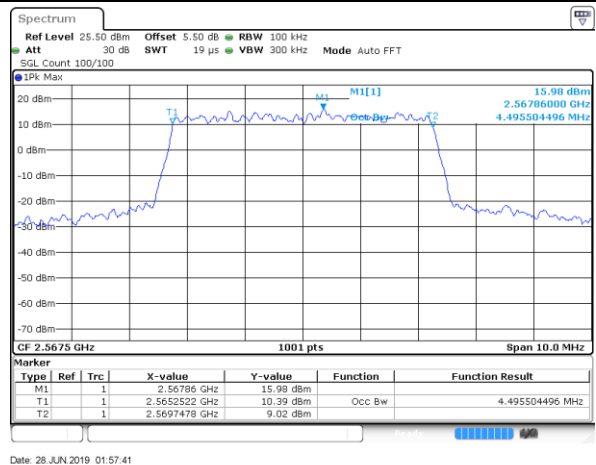
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



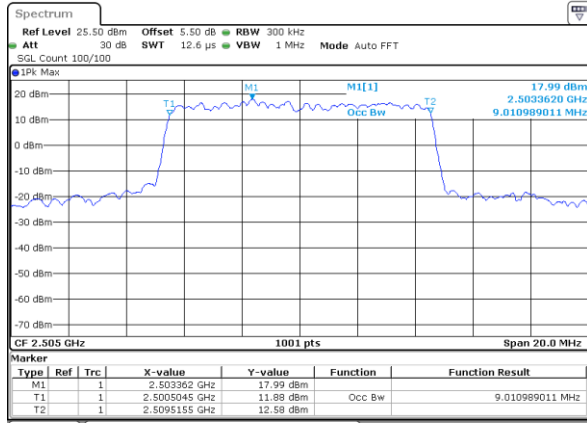
Highest Channel / 5MHz / 16QAM





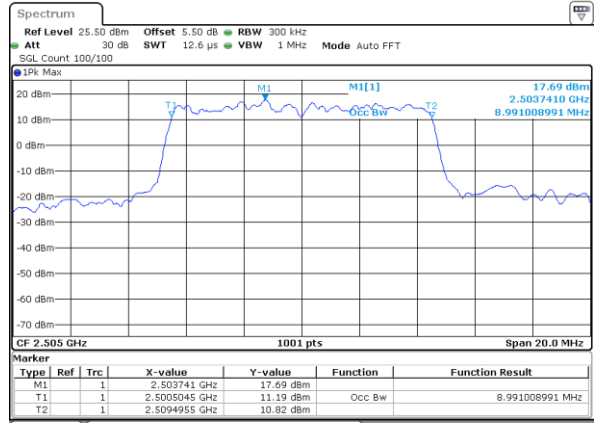
LTE Band 7

Lowest Channel / 10MHz / QPSK



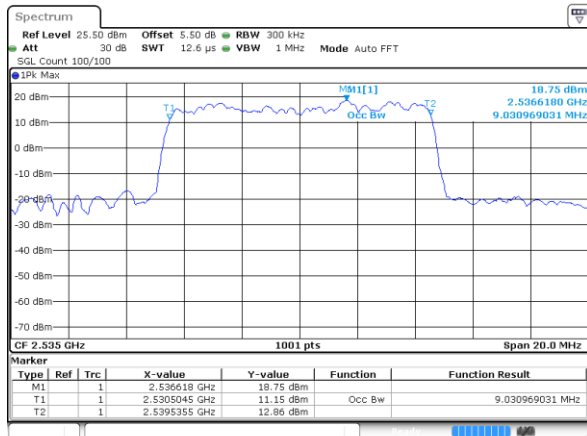
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Lowest Channel / 10MHz / 16QAM



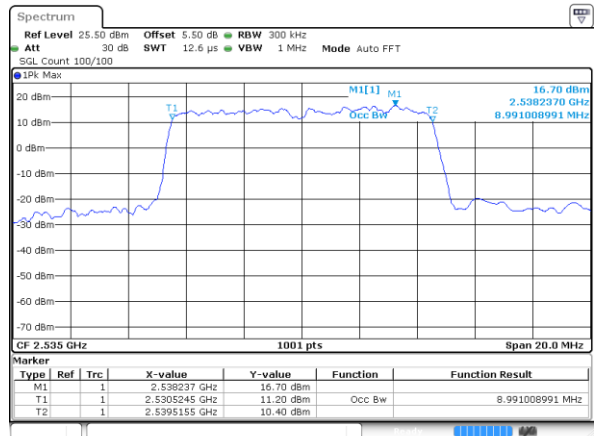
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Middle Channel / 10MHz / QPSK



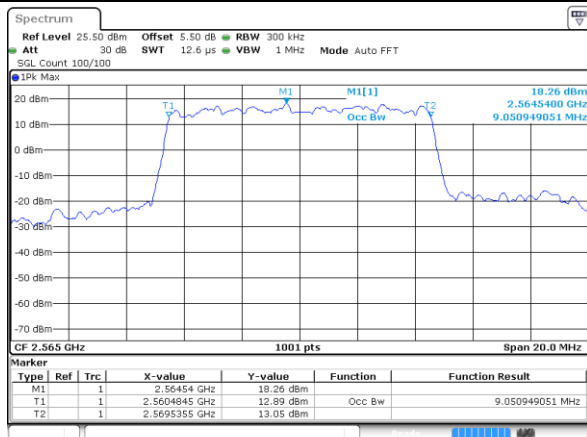
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Middle Channel / 10MHz / 16QAM



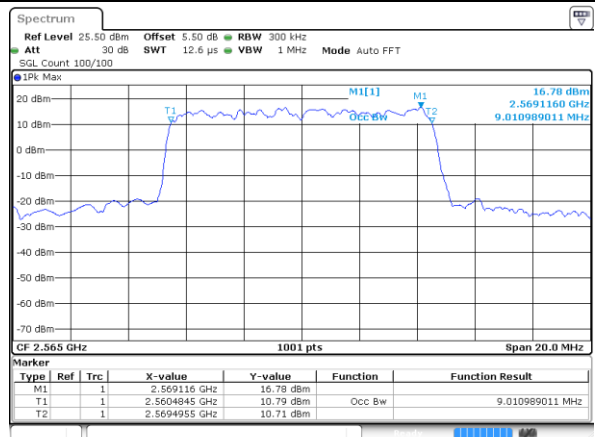
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Highest Channel / 10MHz / QPSK



Date: 28 JUN 2019 02:13:52

Highest Channel / 10MHz / 16QAM

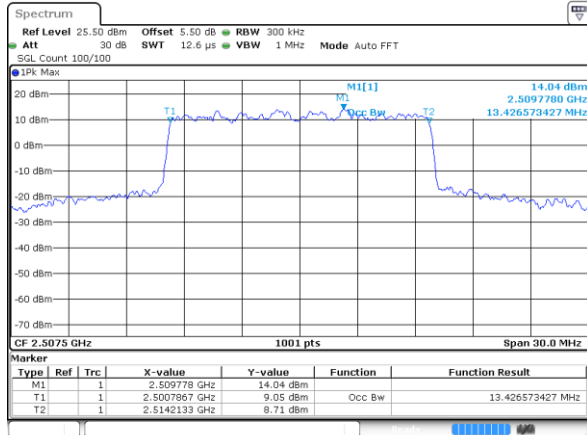


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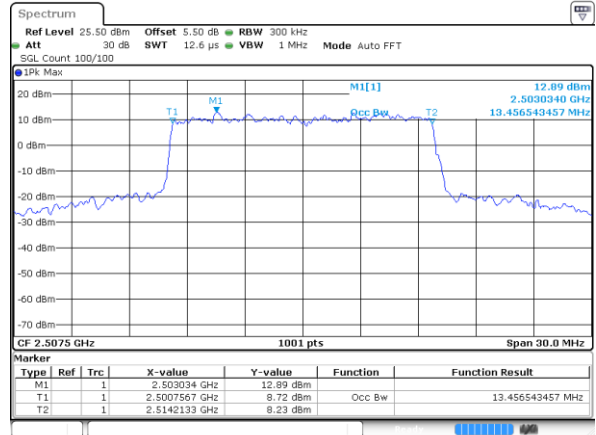


LTE Band 7

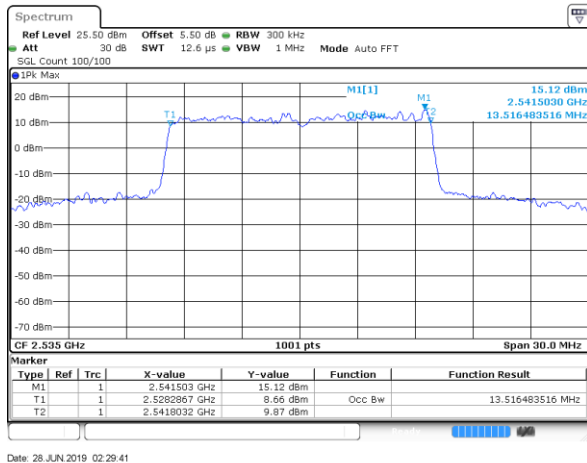
Lowest Channel / 15MHz / QPSK



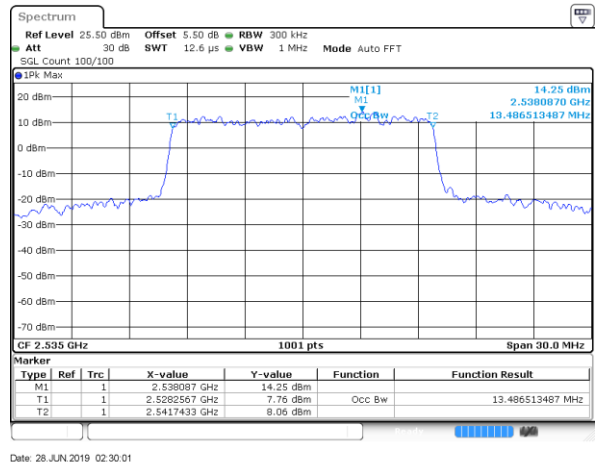
Lowest Channel / 15MHz / 16QAM



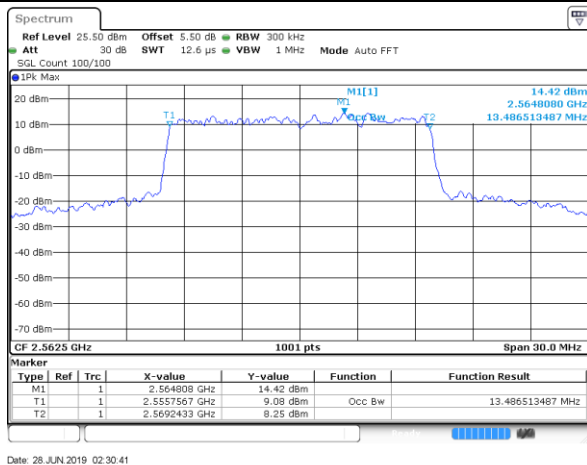
Middle Channel / 15MHz / QPSK



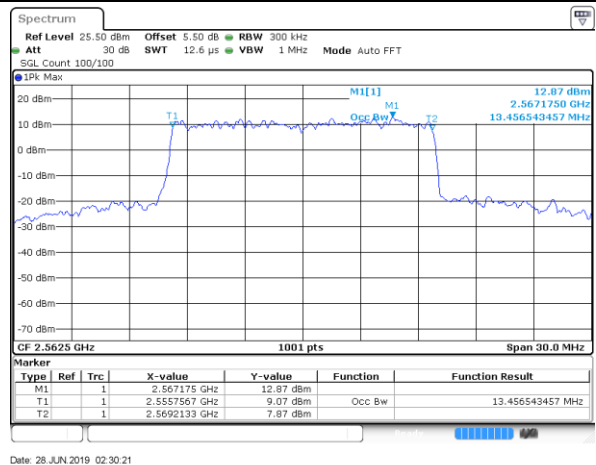
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



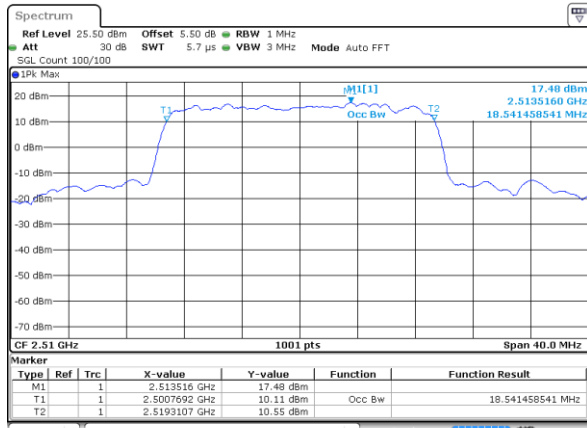
Highest Channel / 15MHz / 16QAM





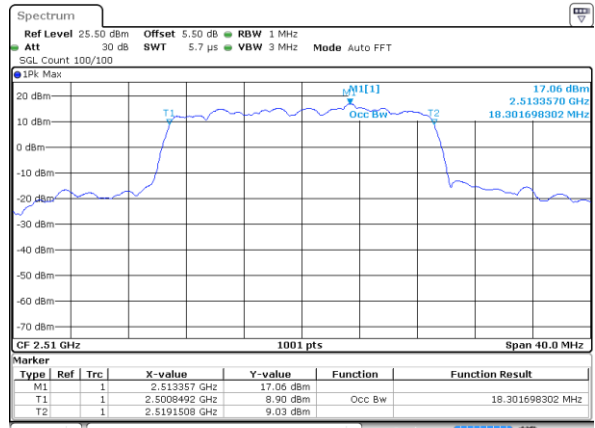
LTE Band 7

Lowest Channel / 20MHz / QPSK



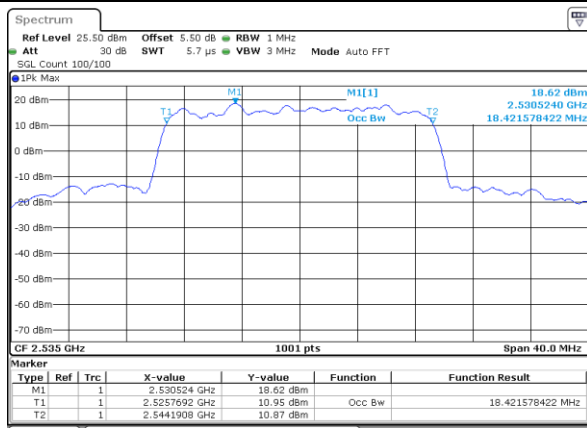
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Lowest Channel / 20MHz / 16QAM



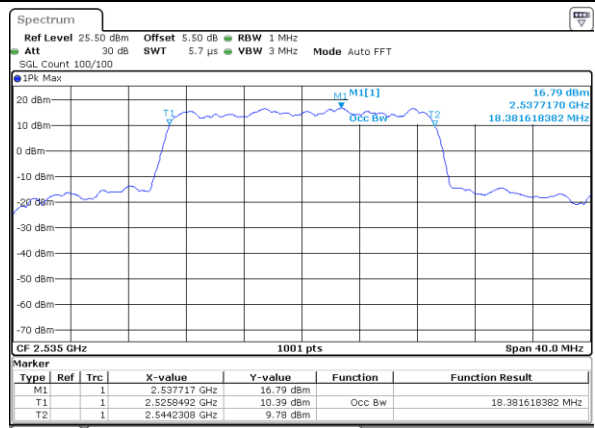
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Middle Channel / 20MHz / QPSK



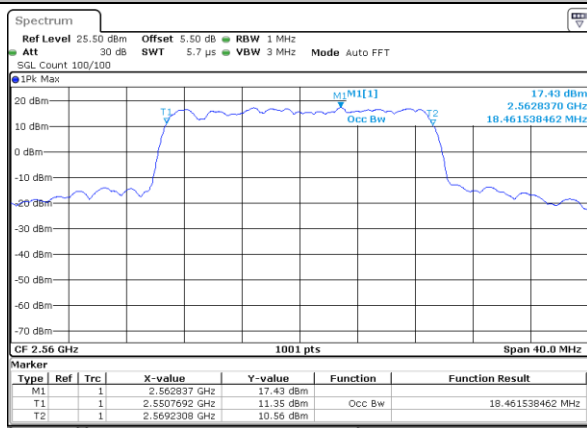
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Middle Channel / 20MHz / 16QAM



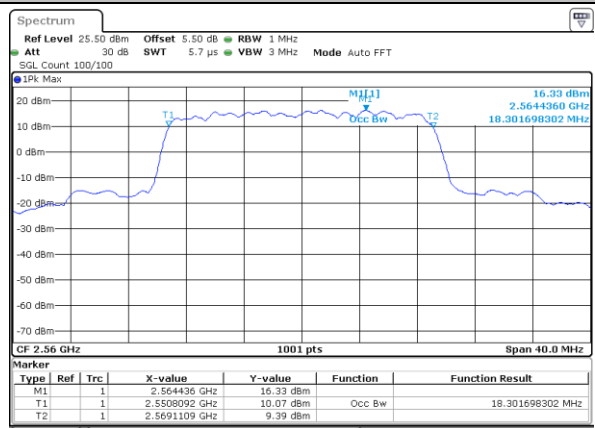
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Highest Channel / 20MHz / QPSK



Date: 28 JUN 2019 02:47:12

Highest Channel / 20MHz / 16QAM

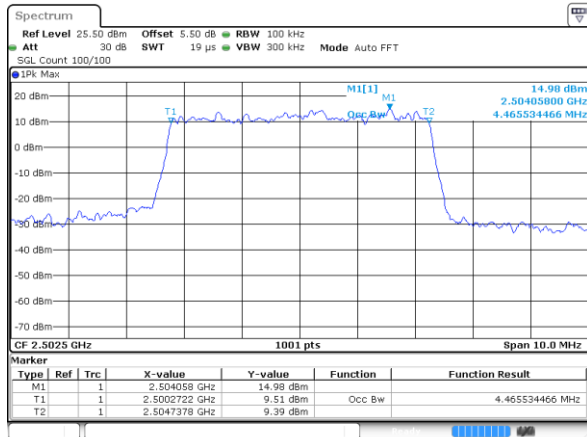


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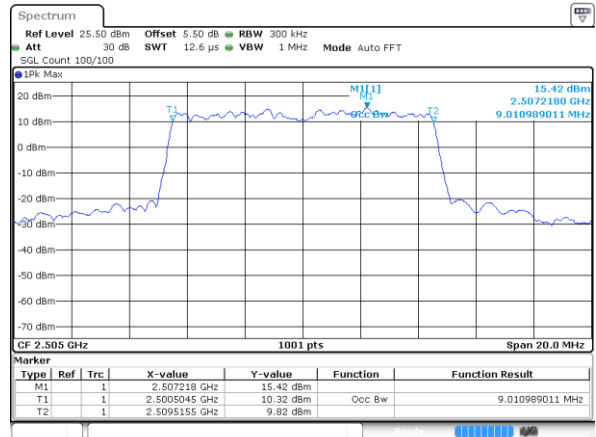


LTE Band 7

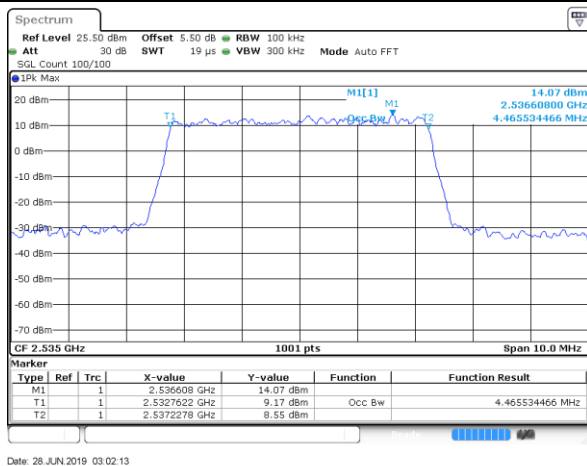
Lowest Channel / 5MHz / 64QAM



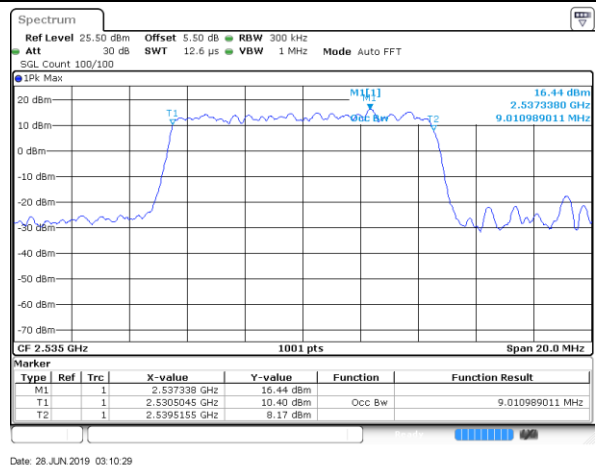
Lowest Channel / 10MHz / 64QAM



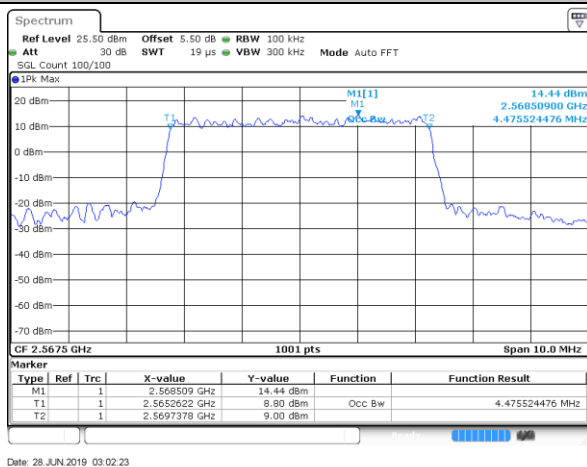
Middle Channel / 5MHz / 64QAM



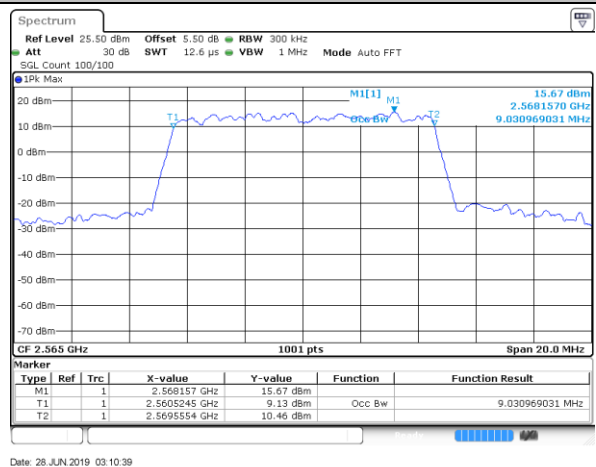
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



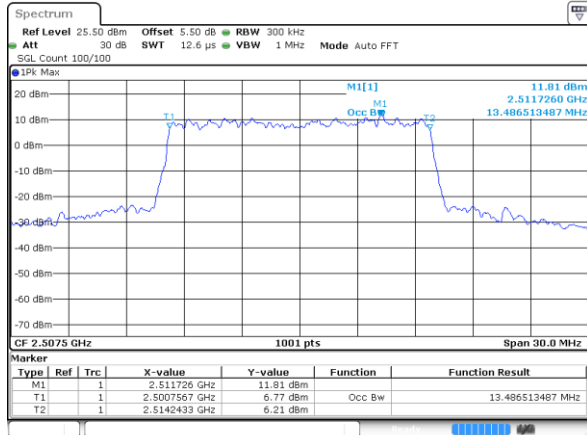
Highest Channel / 10MHz / 64QAM



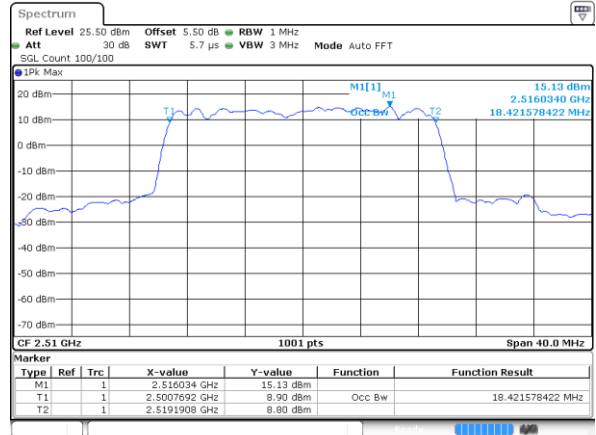


LTE Band 7

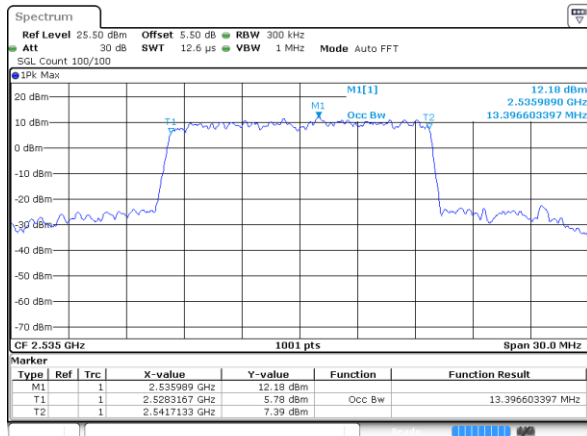
Lowest Channel / 15MHz / 64QAM



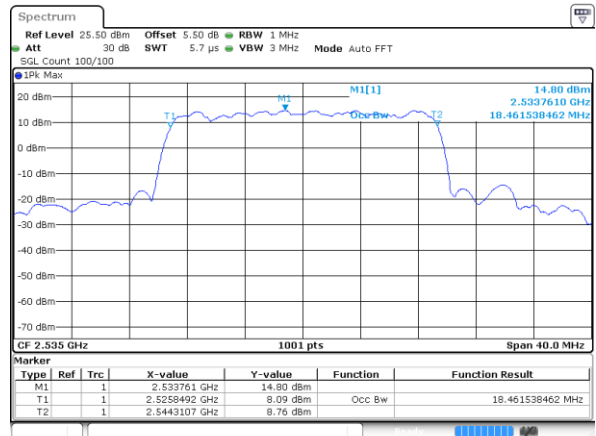
Lowest Channel / 20MHz / 64QAM



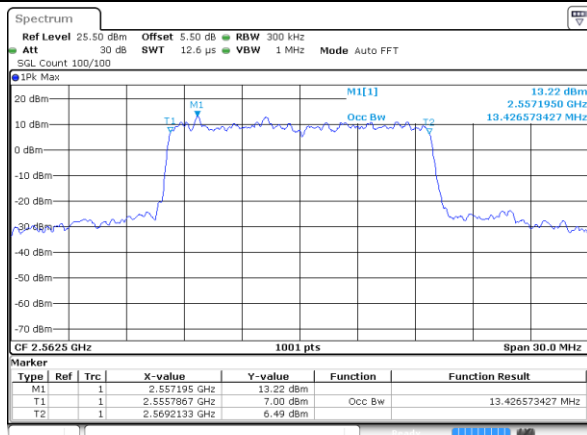
Middle Channel / 15MHz / 64QAM



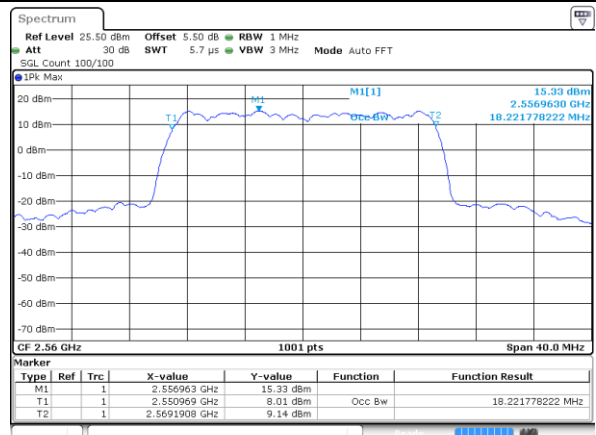
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



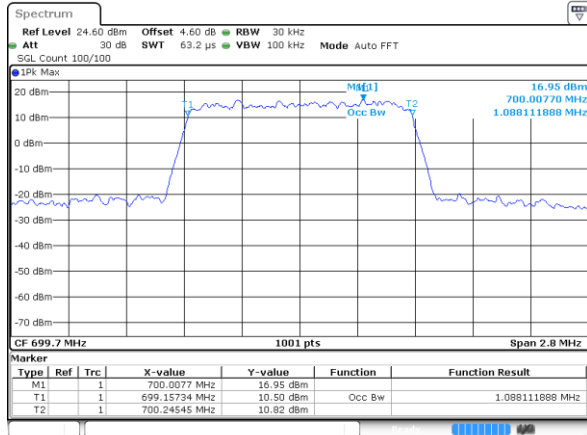
Highest Channel / 20MHz / 64QAM



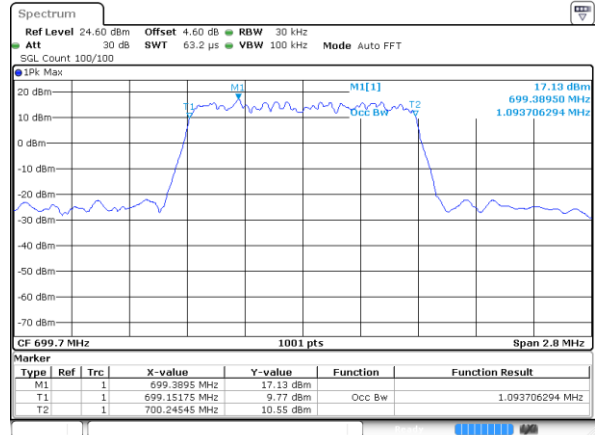


LTE Band 12

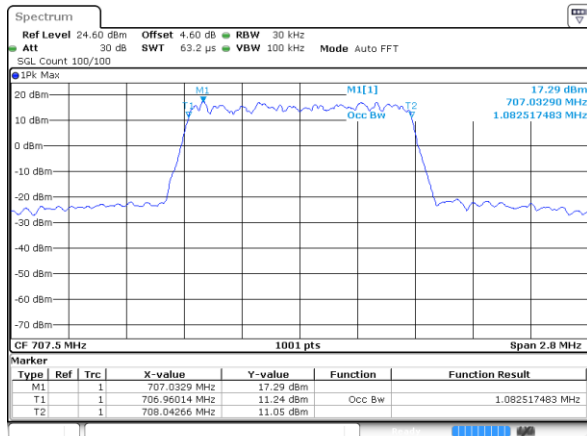
Lowest Channel / 1.4MHz / QPSK



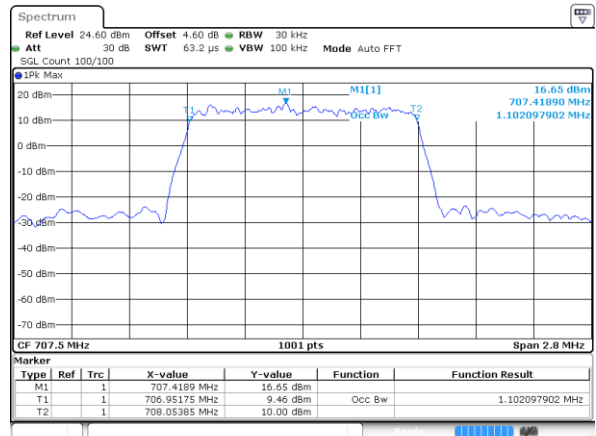
Lowest Channel / 1.4MHz / 16QAM



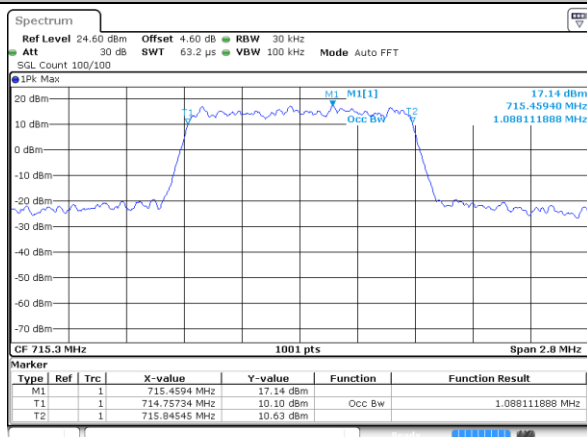
Middle Channel / 1.4MHz / QPSK



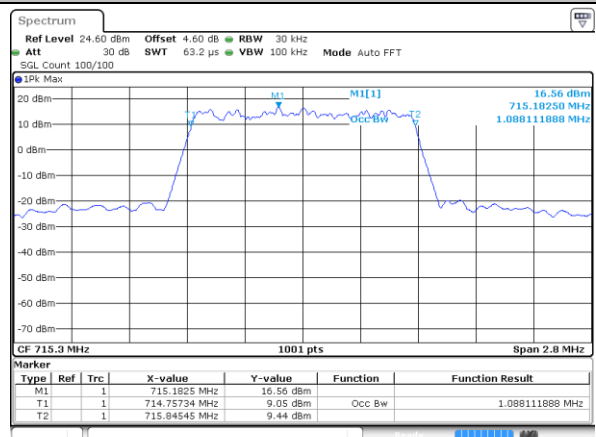
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



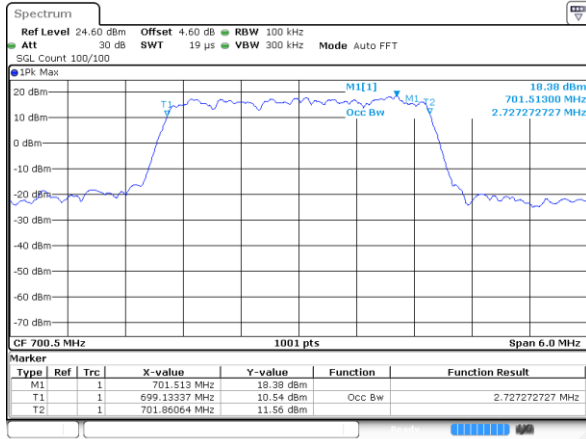
Highest Channel / 1.4MHz / 16QAM



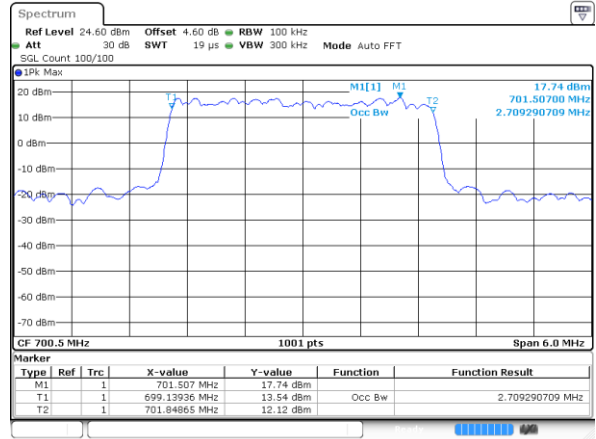


LTE Band 12

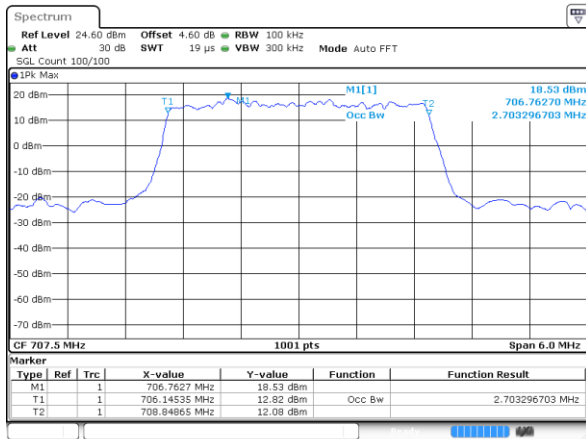
Lowest Channel / 3MHz / QPSK



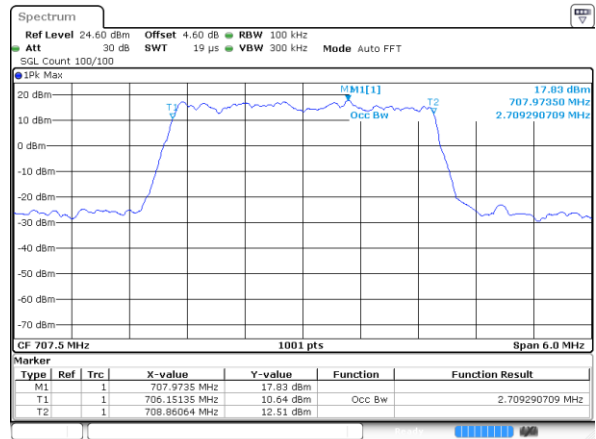
Lowest Channel / 3MHz / 16QAM



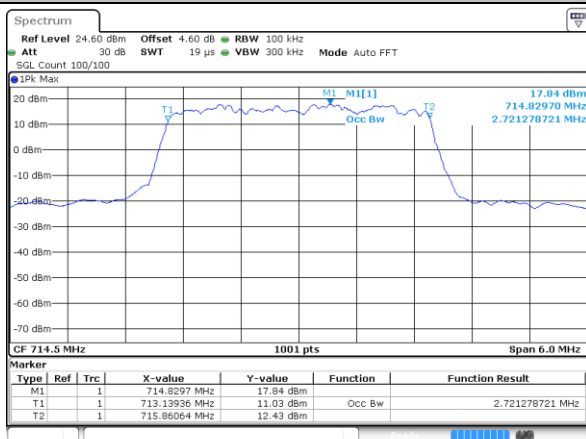
Middle Channel / 3MHz / QPSK



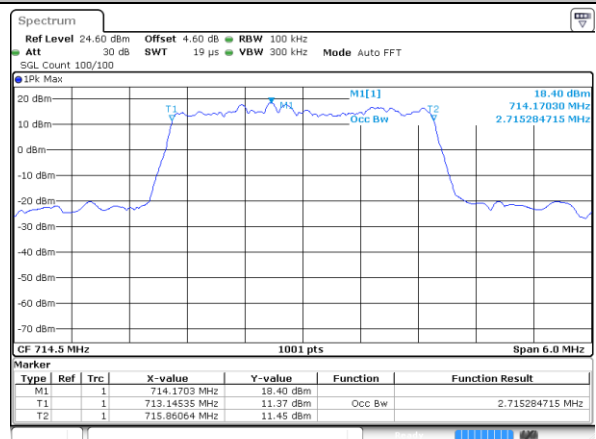
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



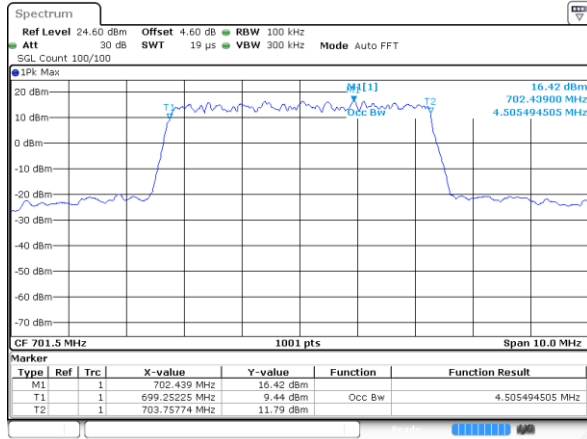
Highest Channel / 3MHz / 16QAM



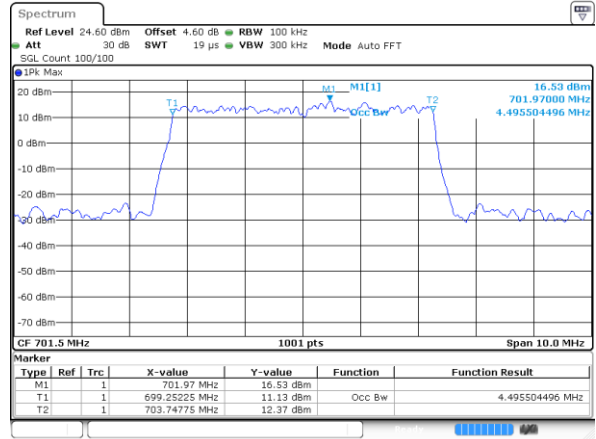


LTE Band 12

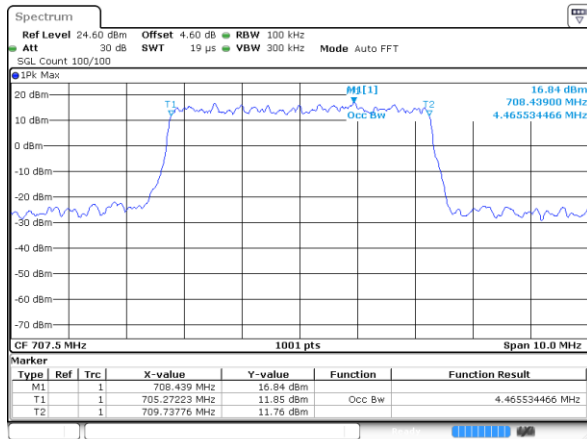
Lowest Channel / 5MHz / QPSK



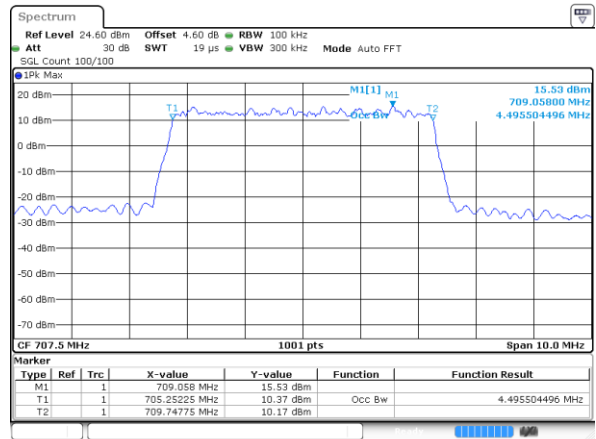
Lowest Channel / 5MHz / 16QAM



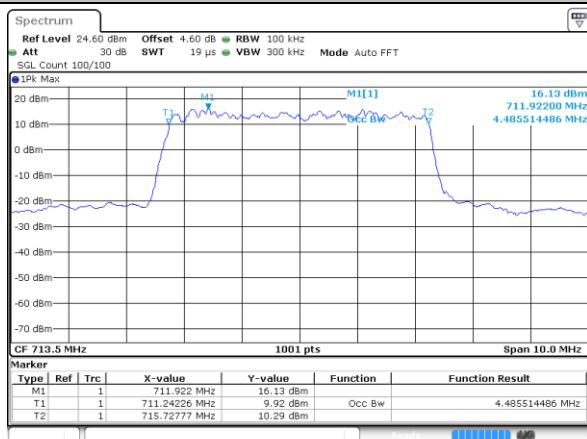
Middle Channel / 5MHz / QPSK



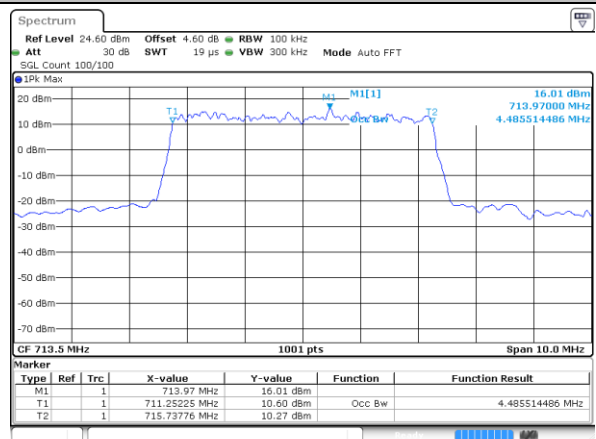
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



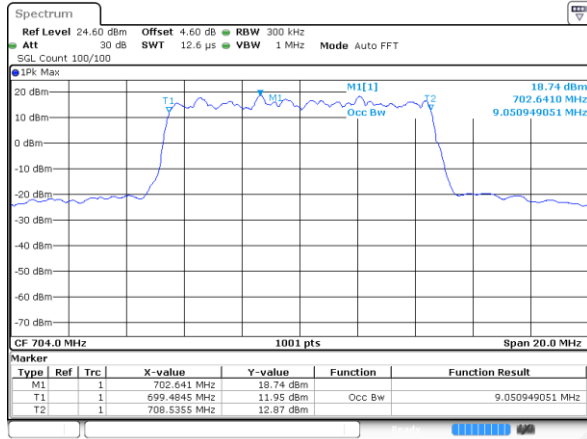
Highest Channel / 5MHz / 16QAM





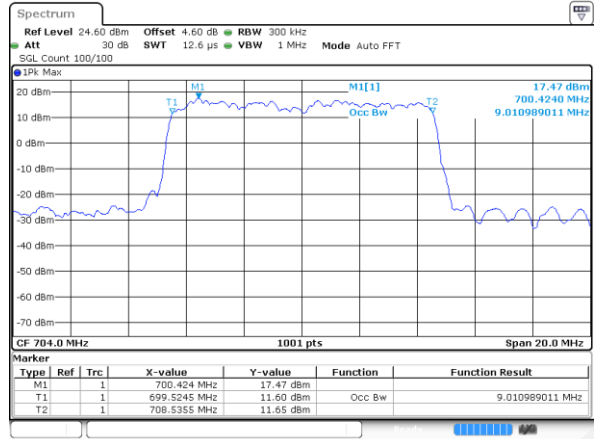
LTE Band 12

Lowest Channel / 10MHz / QPSK



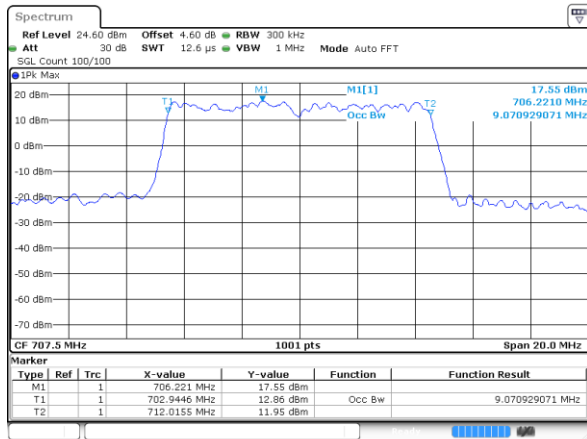
Date: 29 JUN 2019 05:47:42

Lowest Channel / 10MHz / 16QAM



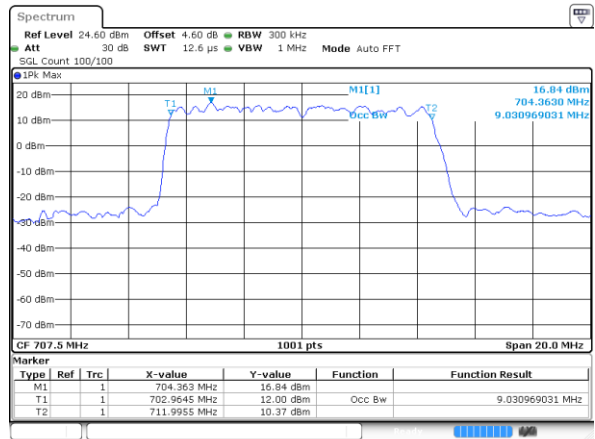
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Middle Channel / 10MHz / QPSK



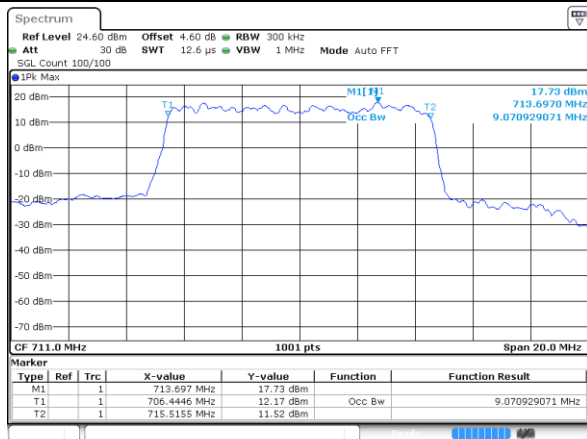
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Middle Channel / 10MHz / 16QAM



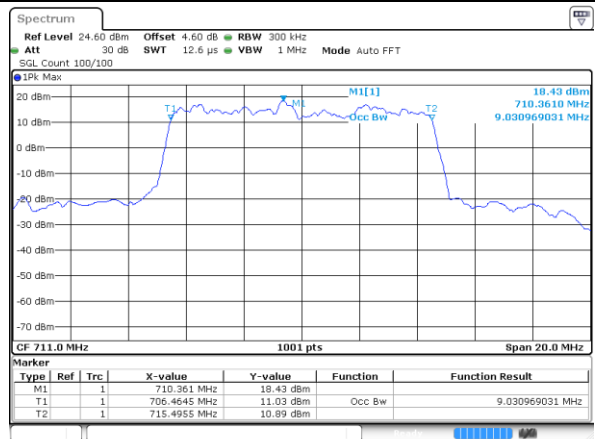
Date: 29 JUN 2019 05:48:02

Highest Channel / 10MHz / QPSK



Date: 29 JUN 2019 05:48:22

Highest Channel / 10MHz / 16QAM



Date: 29 JUN 2019 05:48:32