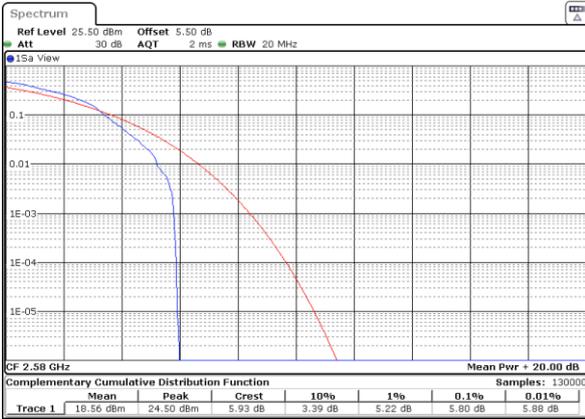




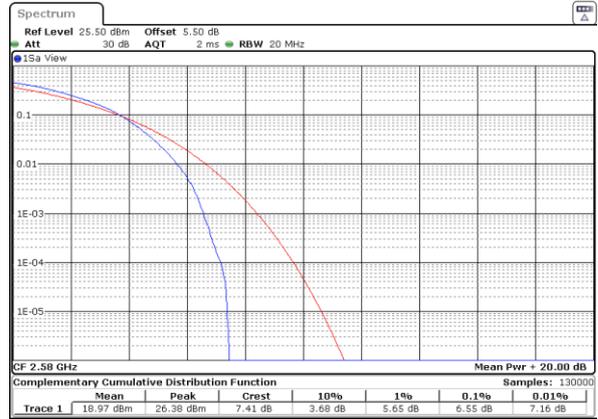
LTE Band 38 / 20MHz / 64QAM

Lowest Channel / 1RB



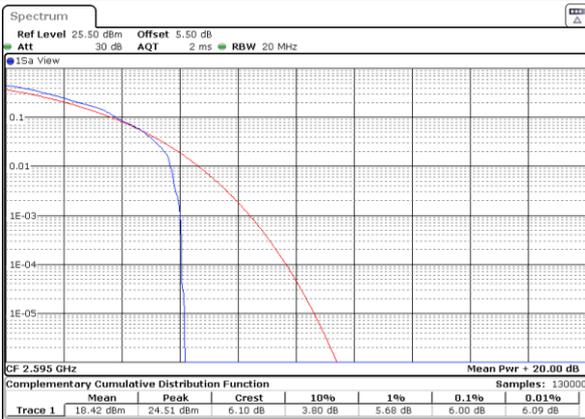
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Lowest Channel / Full RB



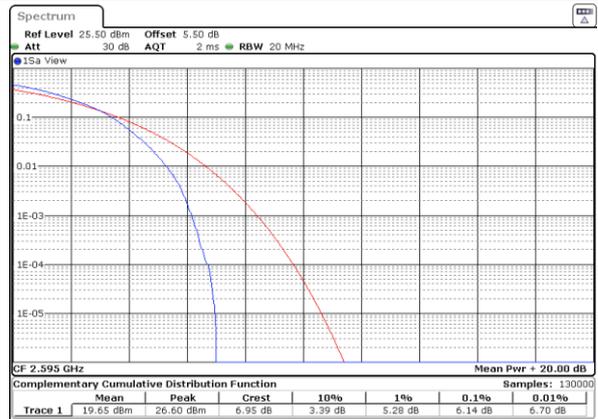
Date: 25 MAR 2019 16:38:10

Middle Channel / 1RB



Date: 25 MAR 2019 16:37:46

Middle Channel / Full RB



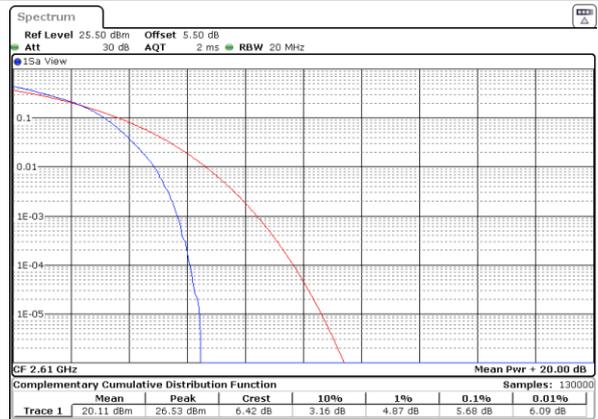
Date: 25 MAR 2019 16:38:52

Highest Channel / 1RB



Date: 25 MAR 2019 16:34:19

Highest Channel / Full RB



Date: 25 MAR 2019 16:34:47



26dB Bandwidth

Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.231	1.228	2.997	3.009	4.925	4.935	9.75	9.83	14.505	14.296	20.42	20.26
Middle CH	1.236	1.217	3.021	3.027	4.915	4.905	9.97	9.93	14.565	14.535	20.1	20.22
Highest CH	1.236	1.217	3.015	3.057	4.875	4.865	9.95	9.75	14.386	14.116	20.18	20.18
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.245		3.009		4.935		9.85		14.595		20.14	
Middle CH	1.236		3.003		4.915		10.01		14.665		30.38	
Highest CH	1.242		3.057		4.915		9.71		14.326		20.26	

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.234	1.225	2.991	3.033	4.975	4.905	9.77	9.87	14.505	14.535	20.42	20.22
Middle CH	1.217	1.225	3.033	3.009	4.975	4.785	9.83	9.91	14.206	14.505	20.1	20.22
Highest CH	1.245	1.231	2.997	3.045	4.925	4.885	9.79	9.79	14.416	14.206	20.14	20.18
Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.231		2.925		4.875		9.69		14.625		20.14	
Middle CH	1.228		2.949		4.895		9.73		14.266		20.14	
Highest CH	1.225		3.021		4.805		9.77		14.296		20.14	



LTE Band 5 : 26dB BW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.236	1.231	3.009	2.943	4.975	4.905	9.85	9.79				
Middle CH	1.231	1.234	3.021	3.045	4.885	4.965	9.77	9.83				
Highest CH	1.228	1.214	3.021	3.057	4.905	4.915	9.79	9.83				

LTE Band 5 : 26dB BW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.242		3.003		4.815		9.85					
Middle CH	1.239		3.039		4.875		9.67					
Highest CH	1.231		3.039		4.845		9.77					

LTE Band 7 : 26dB BW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					4.945	4.925	9.71	9.75	14.446	14.595	20.18	19.98
Middle CH					4.865	4.855	9.79	9.87	14.296	14.476	20.3	20.18
Highest CH					4.845	4.925	9.87	9.85	14.146	14.685	20.06	20.14

LTE Band 7 : 26dB BW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.945		9.69		14.416		20.22	
Middle CH					4.895		9.95		14.356		20.1	
Highest CH					4.905		9.75		14.386		20.18	

LTE Band 38 : 26dB BW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					4.945	4.785	9.67	9.67	14.116	14.535	20.18	20.1
Middle CH					4.875	4.815	9.81	9.73	14.535	14.206	20.18	20.14
Highest CH					4.885	4.805	9.79	9.75	14.535	14.266	20.539	20.18

LTE Band 38 : 26dB BW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.885		9.67		14.176		20.06	
Middle CH					4.835		9.83		14.116		20.18	
Highest CH					4.795		9.73		14.176		20.06	



For CA

Mode	LTE Band 7 : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	29.91		25.275	30.509
Middle CH	29.79		25.325	30.509
Highest CH	29.85		25.125	30.809
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.825	30.03	35.035	39.72
Middle CH	34.895	30.09	34.825	39.72
Highest CH	34.755	29.85	34.965	39.72

Mode	LTE Band 7 : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	29.85		25.175	30.45
Middle CH	29.79		25.325	30.509
Highest CH	29.85		25.175	30.509
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.755	30.03	34.825	39.88
Middle CH	34.755	30.03	34.825	39.88
Highest CH	34.965	30.03	34.685	39.96

Mode	LTE Band 7 : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	29.85		25.225	30.629
Middle CH	29.73		25.125	30.450
Highest CH	29.67		25.175	30.45
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.825	30.03	34.755	39.56
Middle CH	34.755	29.91	34.895	40.12
Highest CH	34.825	29.97	35.035	39.72



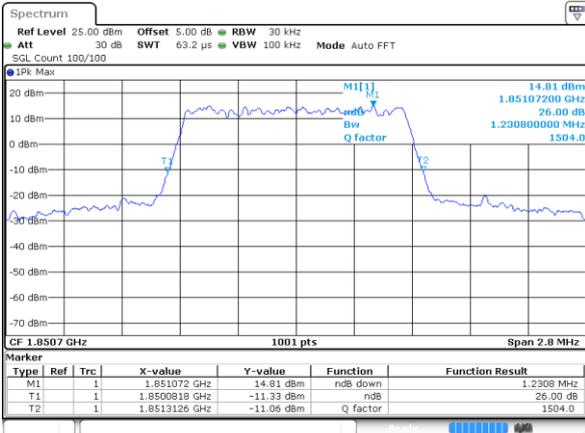
Mode	LTE Band 38 : 26dB BW(MHz)			
Mod.	QPSK		16QAM	
BW	15MHz+15MHz	20MHz+20MHz	15MHz+15MHz	20MHz+20MHz
Lowest CH	30.509	39.72	30.569	39.96
Middle CH	30.569	39.72	30.569	39.80
Highest CH	30.509	39.96	30.629	39.72

Mode	LTE Band 38 : 26dB BW(MHz)			
Mod.	64QAM		-	
BW	15MHz+15MHz	20MHz+20MHz	-	-
Lowest CH	30.45	39.80	-	-
Middle CH	30.569	39.88	-	-
Highest CH	30.509	39.72	-	-



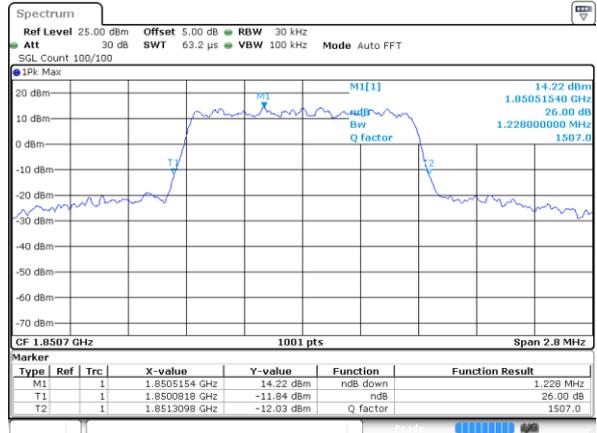
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



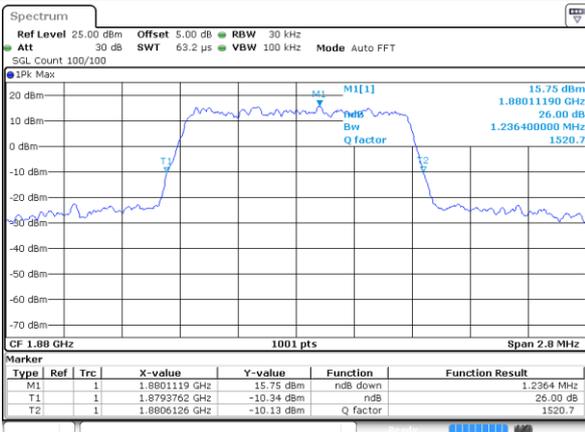
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Lowest Channel / 1.4MHz / 16QAM



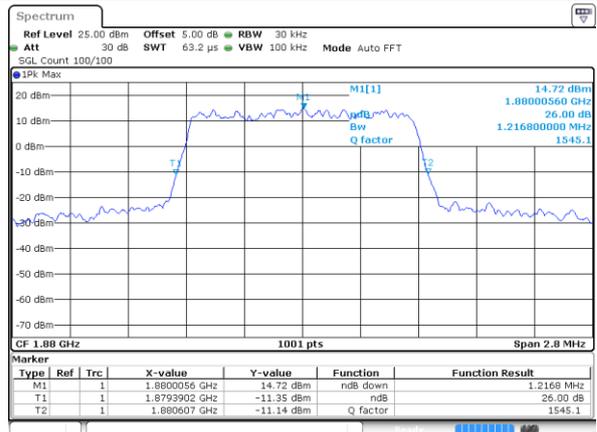
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Middle Channel / 1.4MHz / QPSK



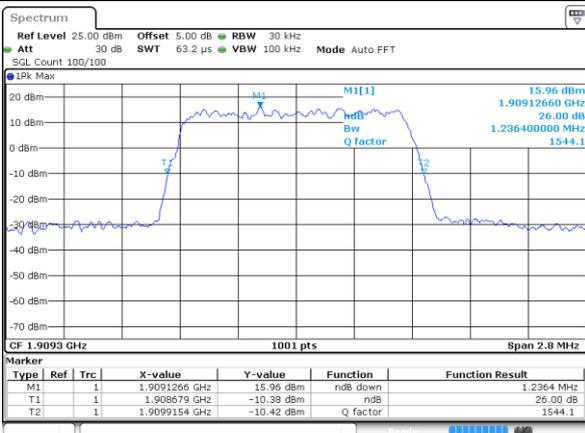
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Middle Channel / 1.4MHz / 16QAM



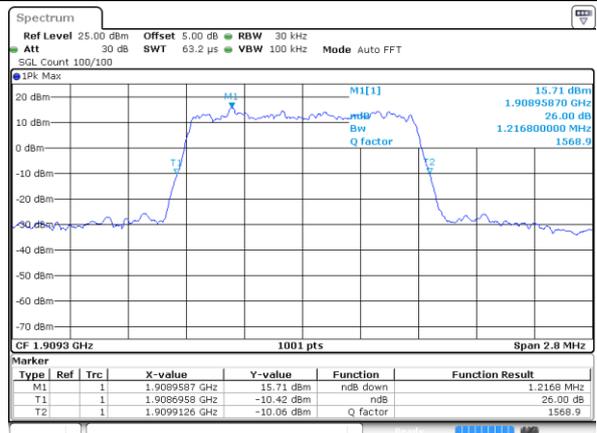
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Highest Channel / 1.4MHz / QPSK



Date: 24 MAR 2019 13:25:25

Highest Channel / 1.4MHz / 16QAM

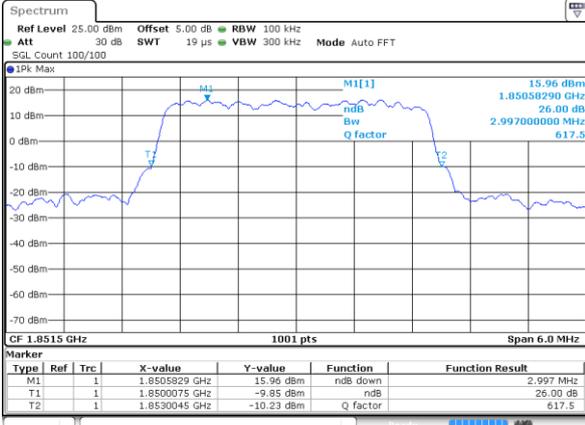


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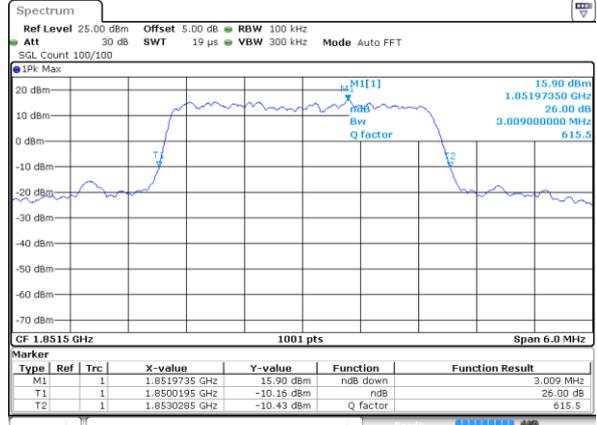
LTE Band 2

Lowest Channel / 3MHz / QPSK



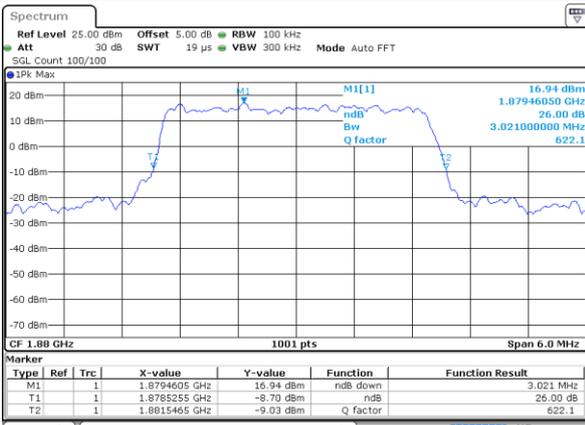
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Lowest Channel / 3MHz / 16QAM



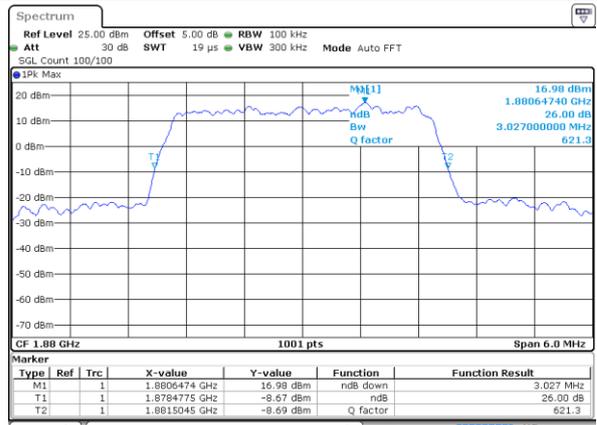
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Middle Channel / 3MHz / QPSK



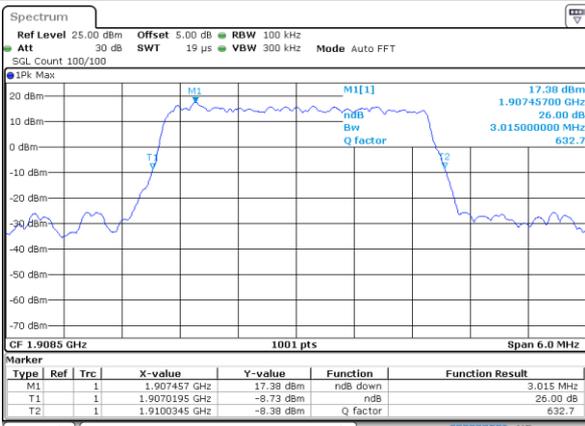
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Middle Channel / 3MHz / 16QAM



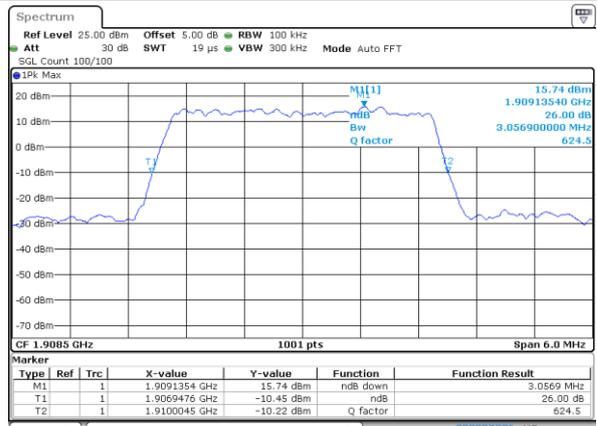
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Highest Channel / 3MHz / QPSK



Date: 24 MAR 2019 13:42:25

Highest Channel / 3MHz / 16QAM

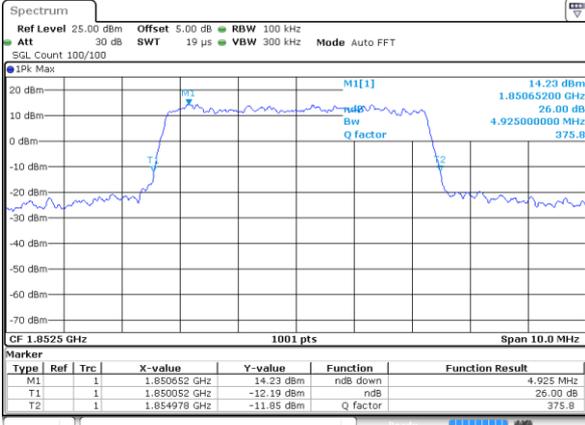


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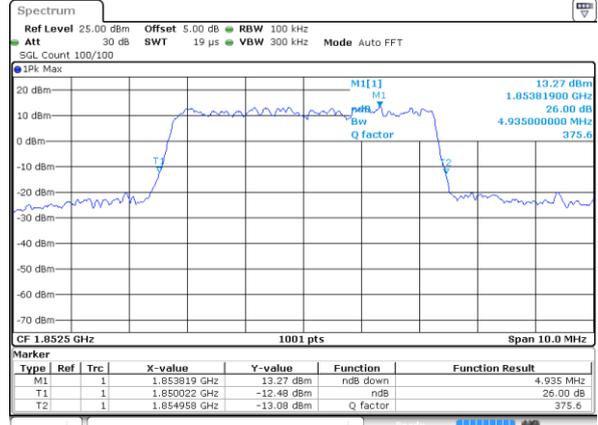
LTE Band 2

Lowest Channel / 5MHz / QPSK



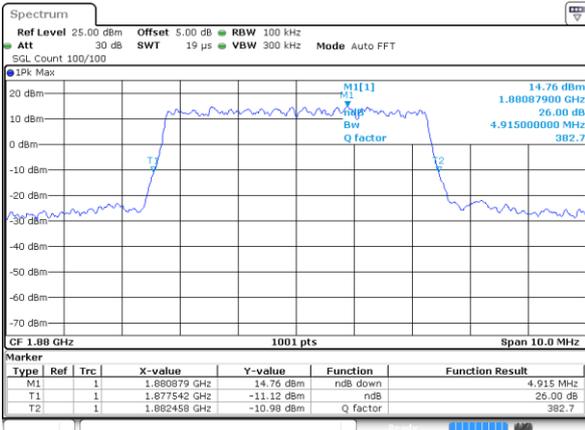
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Lowest Channel / 5MHz / 16QAM



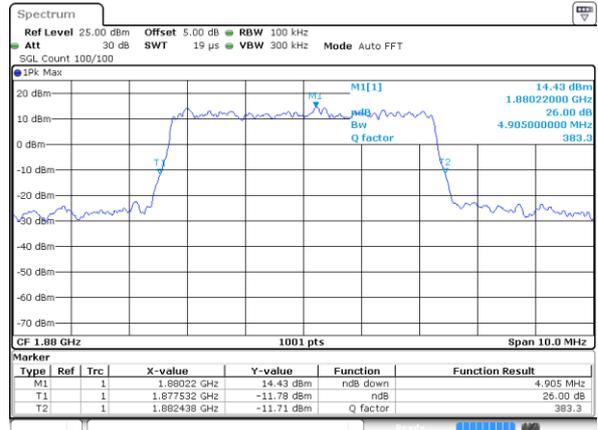
Date: 24 MAR 2019 13:49:42

Middle Channel / 5MHz / QPSK



Date: 24 MAR 2019 13:56:36

Middle Channel / 5MHz / 16QAM



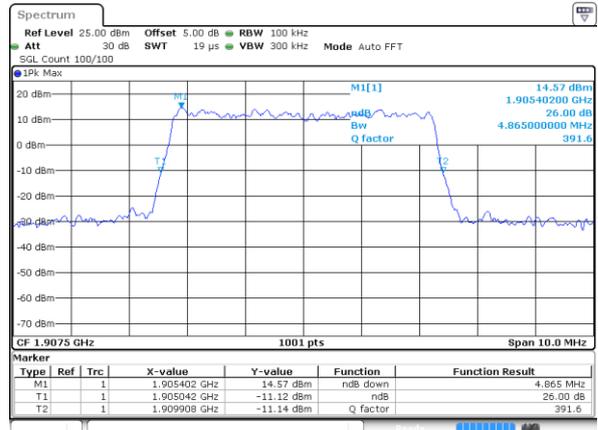
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Highest Channel / 5MHz / QPSK



Date: 24 MAR 2019 13:59:10

Highest Channel / 5MHz / 16QAM

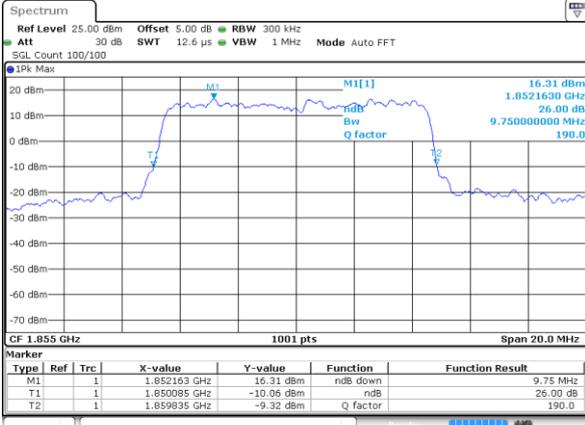


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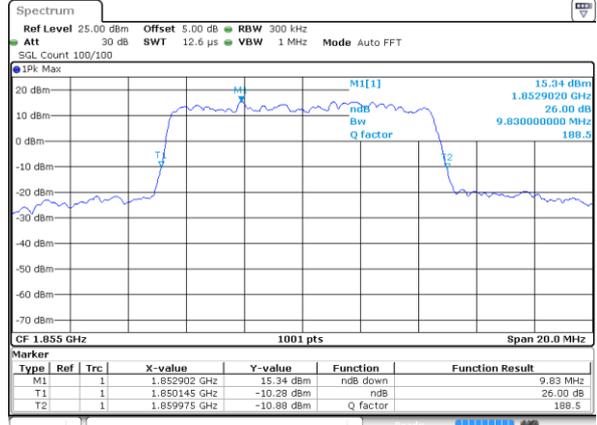
LTE Band 2

Lowest Channel / 10MHz / QPSK



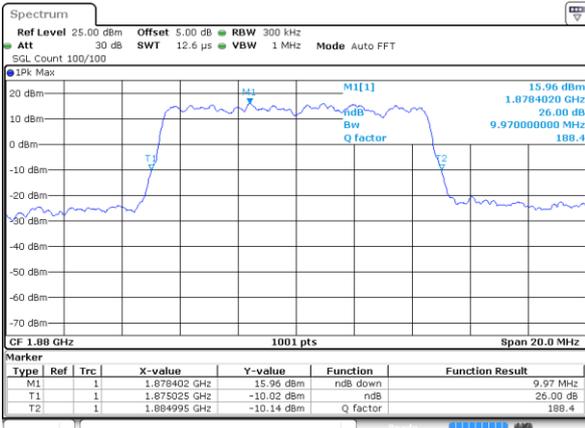
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Lowest Channel / 10MHz / 16QAM



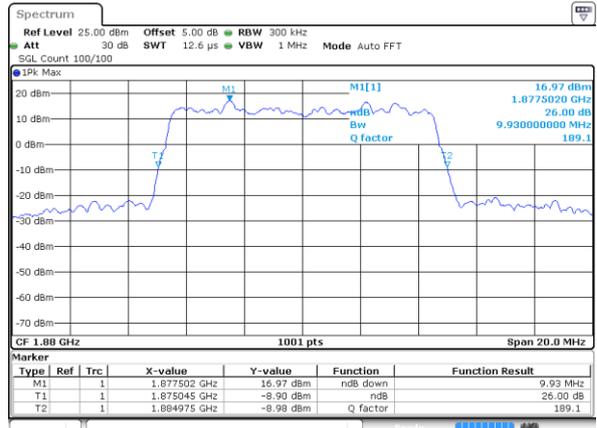
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Middle Channel / 10MHz / QPSK



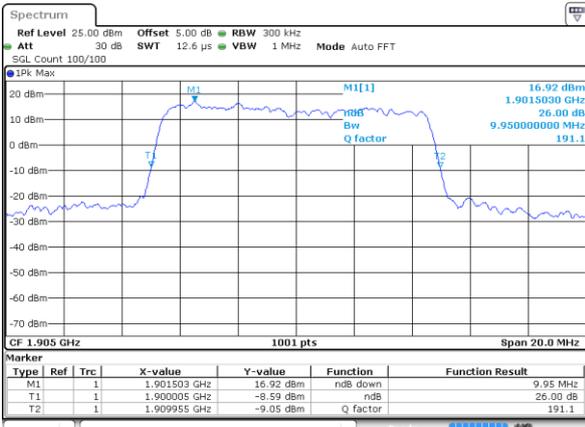
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Middle Channel / 10MHz / 16QAM



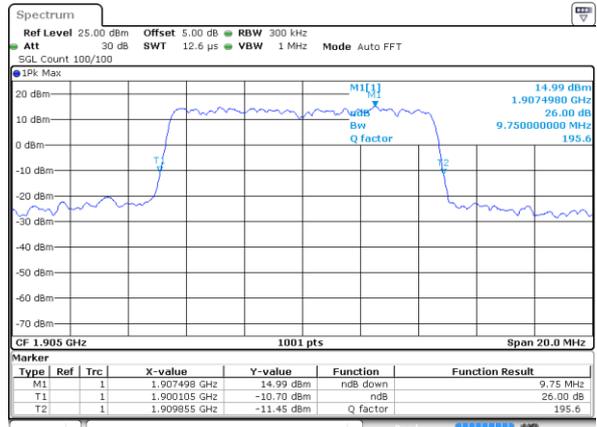
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Highest Channel / 10MHz / QPSK



Date: 24 MAR 2019 14:15:55

Highest Channel / 10MHz / 16QAM



Date: 24 MAR 2019 14:16:06



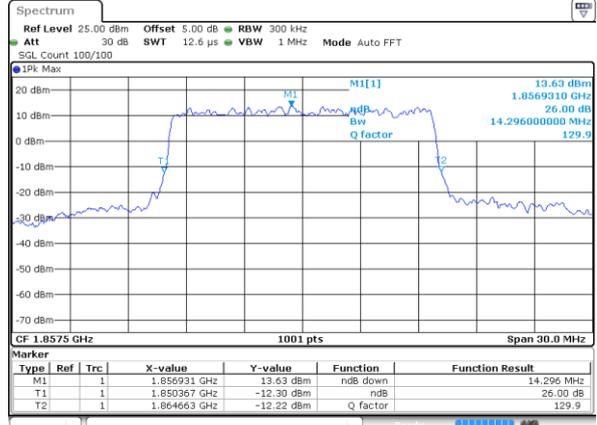
LTE Band 2

Lowest Channel / 15MHz / QPSK



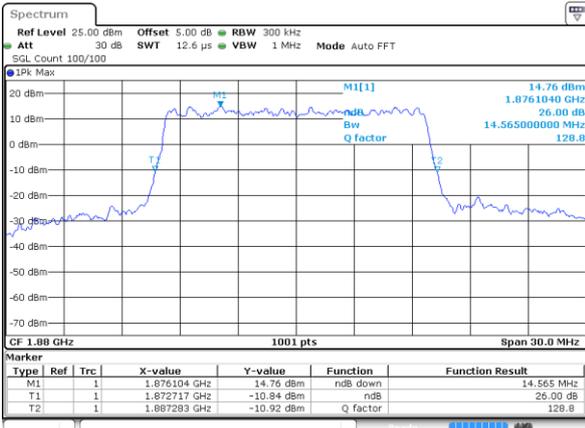
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Lowest Channel / 15MHz / 16QAM



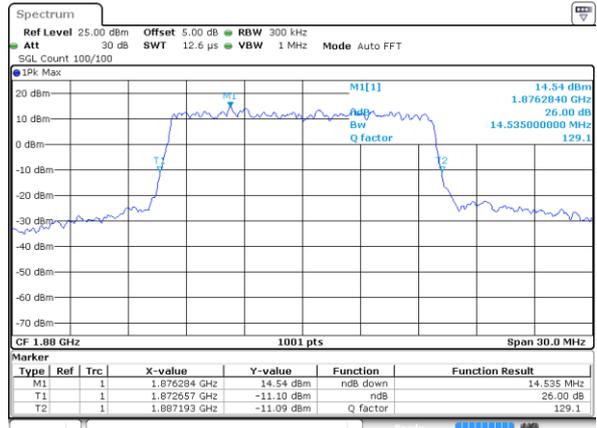
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Middle Channel / 15MHz / QPSK



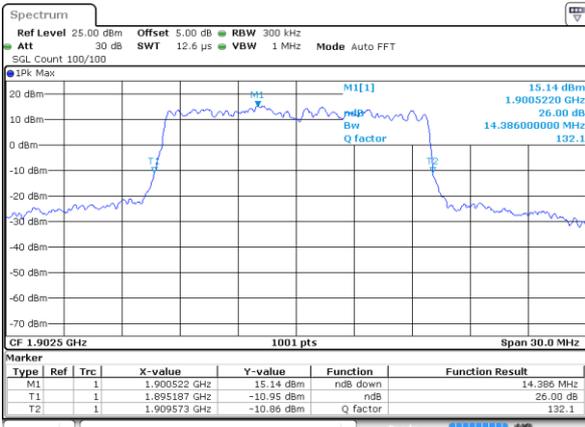
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Middle Channel / 15MHz / 16QAM



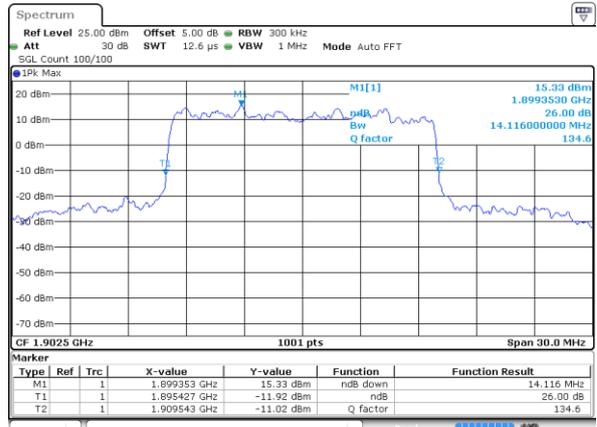
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Highest Channel / 15MHz / QPSK



Date: 24 MAR 2019 14:32:44

Highest Channel / 15MHz / 16QAM

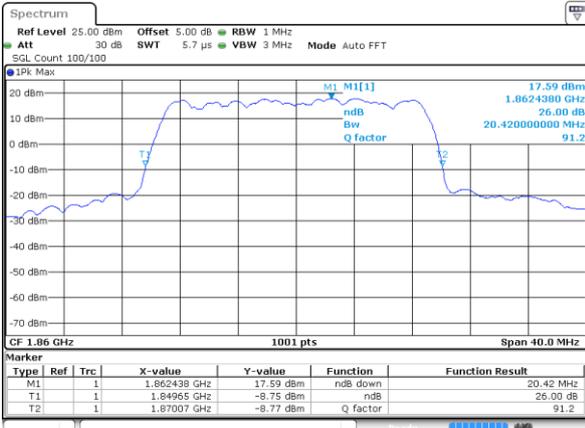


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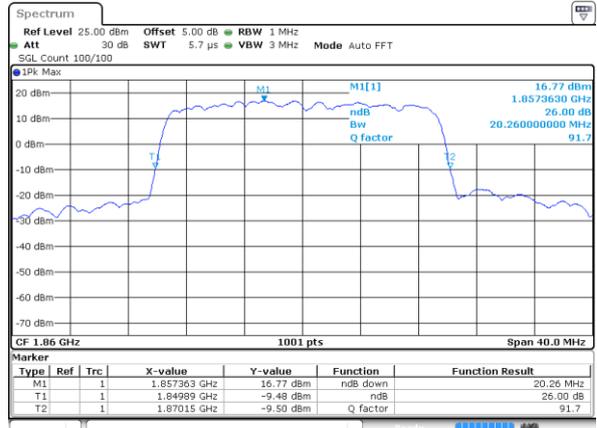
LTE Band 2

Lowest Channel / 20MHz / QPSK



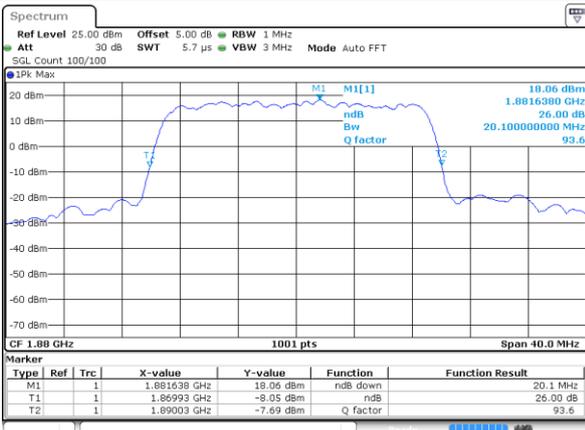
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Lowest Channel / 20MHz / 16QAM



Date: 24 MAR 2019 14:40:04

Middle Channel / 20MHz / QPSK



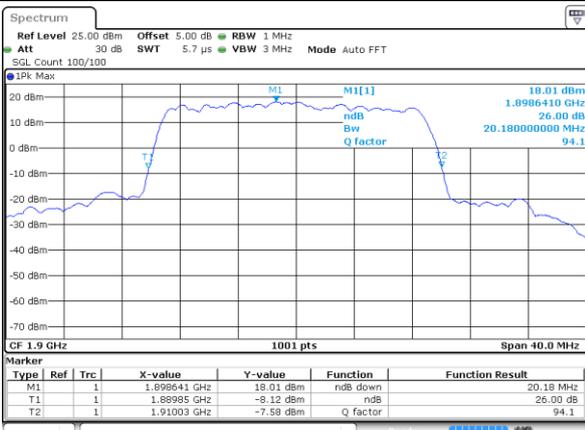
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Middle Channel / 20MHz / 16QAM



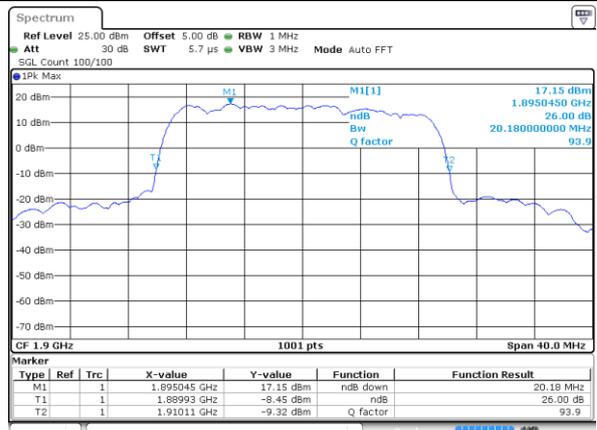
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Highest Channel / 20MHz / QPSK



Date: 24 MAR 2019 14:49:32

Highest Channel / 20MHz / 16QAM

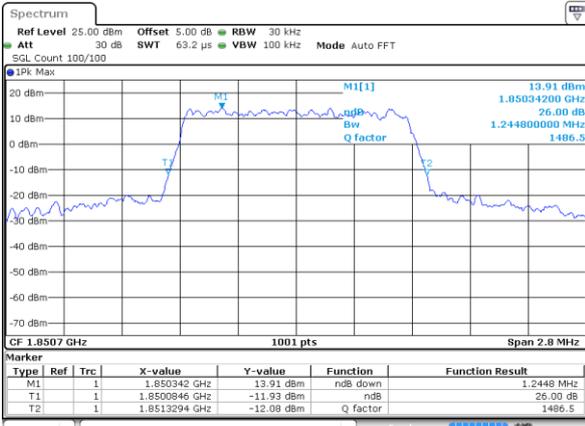


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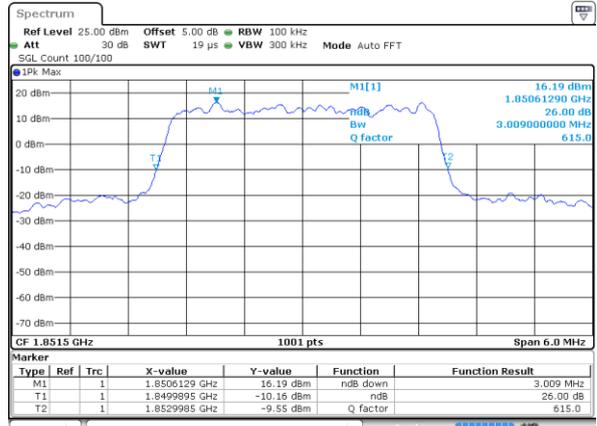
LTE Band 2

Lowest Channel / 1.4MHz / 64QAM



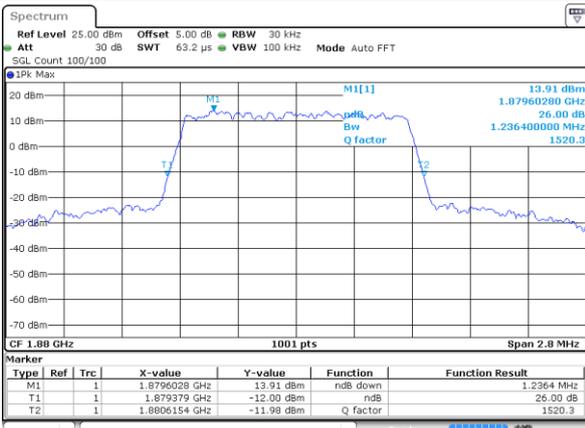
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Lowest Channel / 3MHz / 64QAM



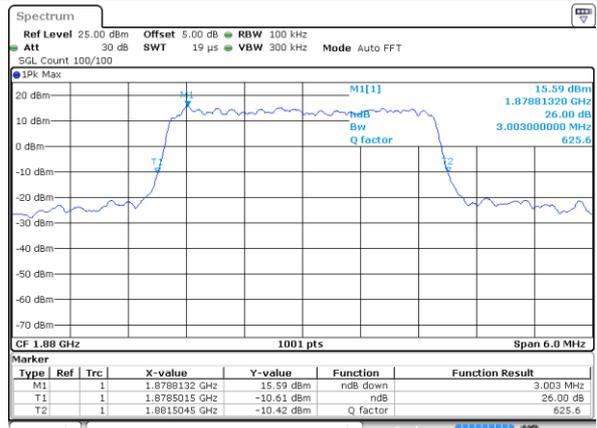
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Middle Channel / 1.4MHz / 64QAM



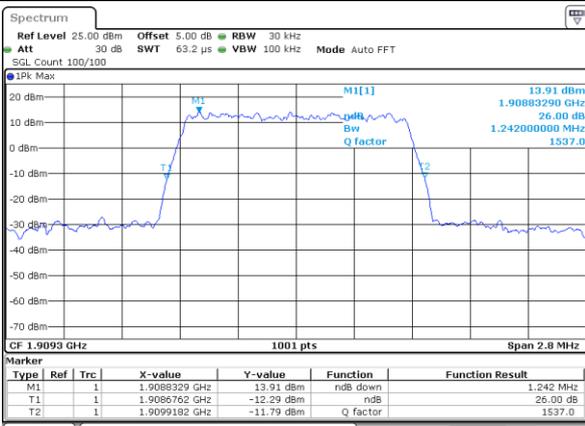
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Middle Channel / 3MHz / 64QAM



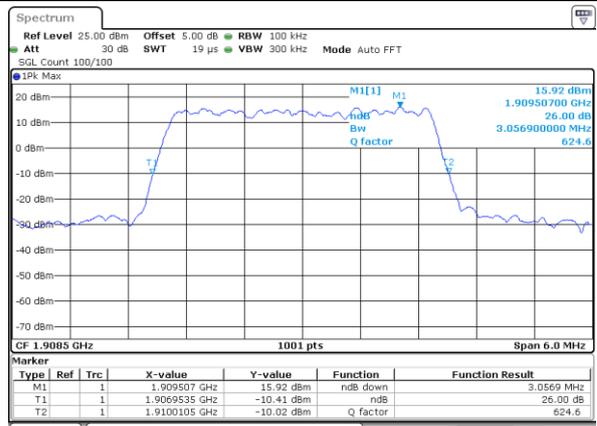
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Highest Channel / 1.4MHz / 64QAM



Date: 24 MAR 2019 15:07:09

Highest Channel / 3MHz / 64QAM

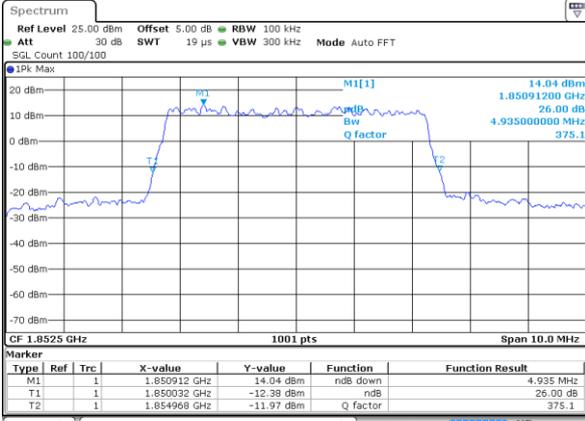


Date: 24 MAR 2019 15:07:42



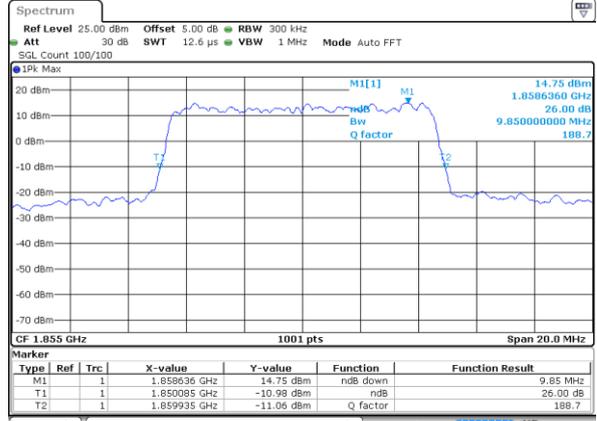
LTE Band 2

Lowest Channel / 5MHz / 64QAM



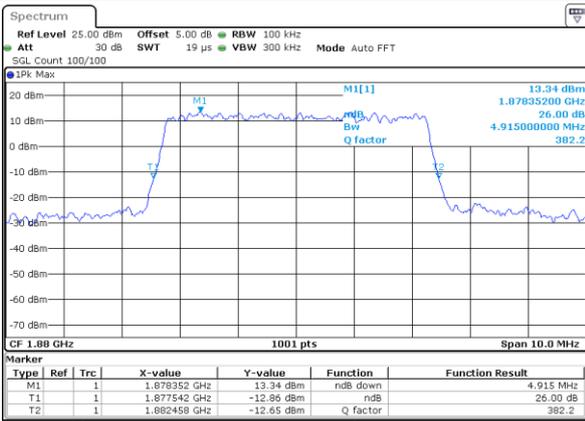
Date: 24 MAR 2019 15:07:53

Lowest Channel / 10MHz / 64QAM



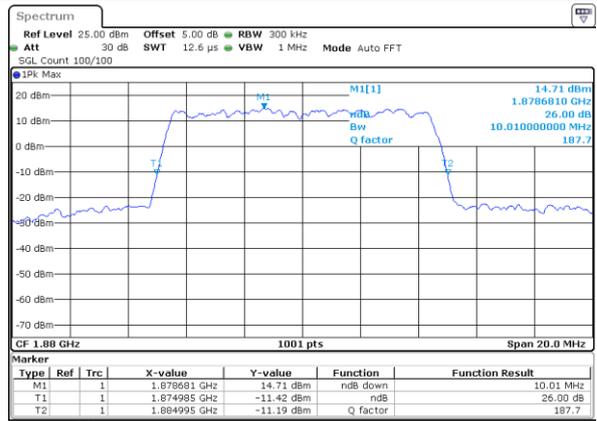
Date: 24 MAR 2019 15:08:25

Middle Channel / 5MHz / 64QAM



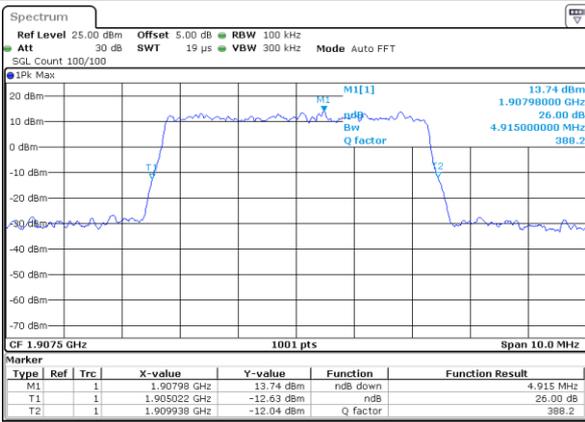
Date: 24 MAR 2019 15:08:03

Middle Channel / 10MHz / 64QAM



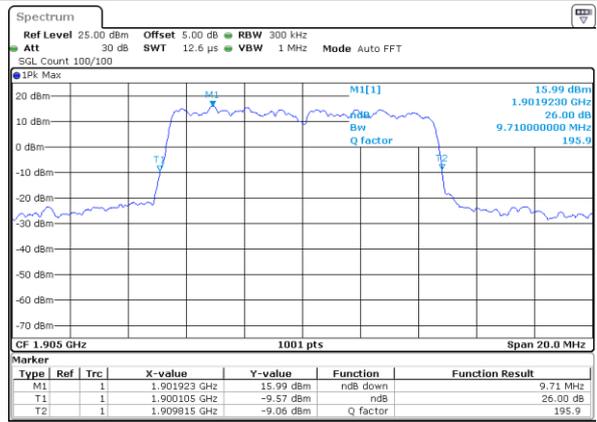
Date: 24 MAR 2019 15:08:36

Highest Channel / 5MHz / 64QAM



Date: 24 MAR 2019 15:08:14

Highest Channel / 10MHz / 64QAM

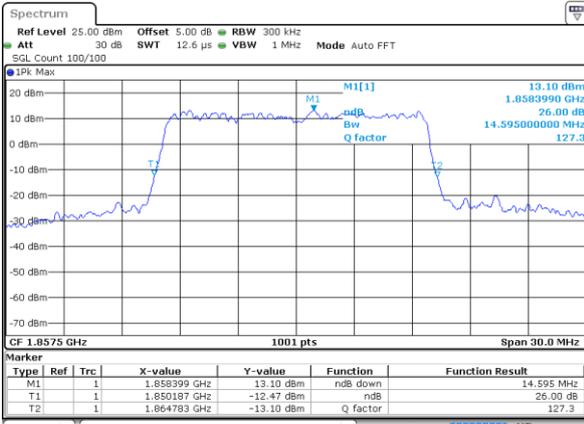


Date: 24 MAR 2019 15:08:47



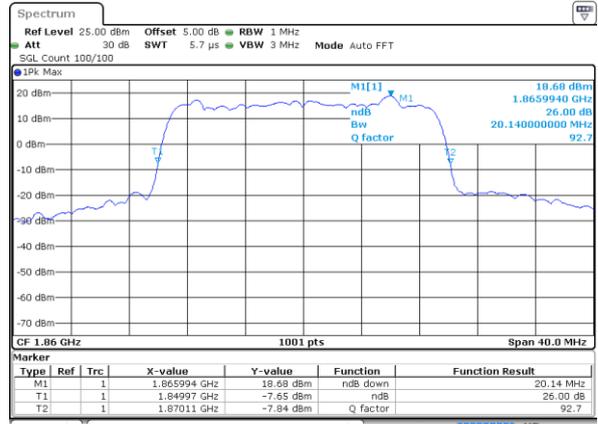
LTE Band 2

Lowest Channel / 15MHz / 64QAM



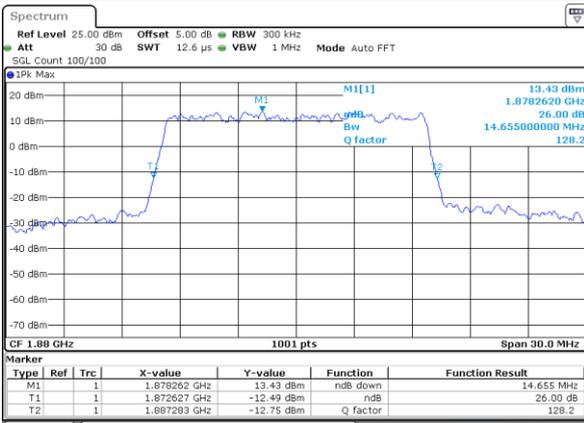
Date: 24 MAR 2019 15:08:58

Lowest Channel / 20MHz / 64QAM



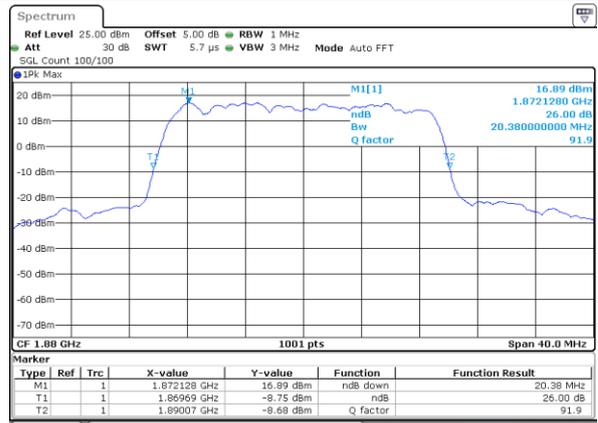
Date: 24 MAR 2019 15:09:31

Middle Channel / 15MHz / 64QAM



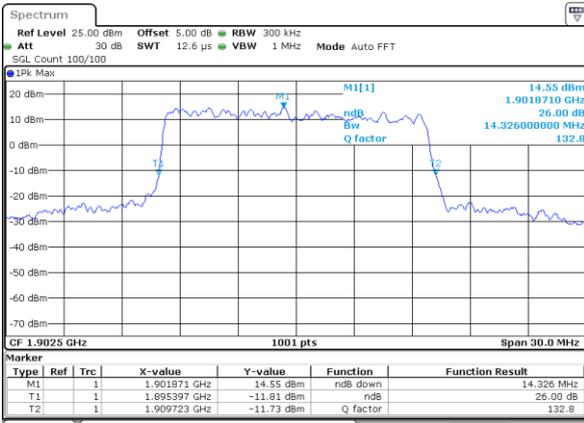
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Middle Channel / 20MHz / 64QAM



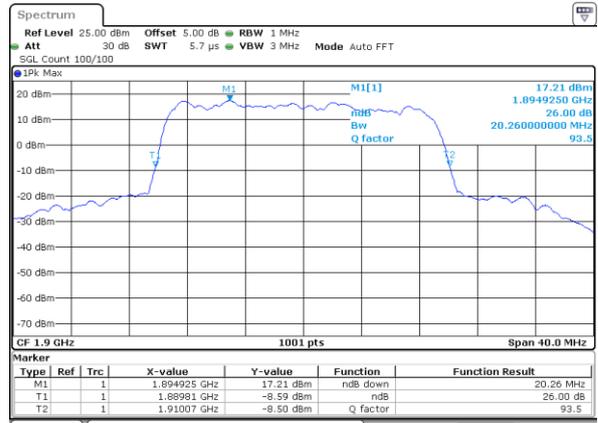
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Highest Channel / 15MHz / 64QAM



Date: 24 MAR 2019 15:09:20

Highest Channel / 20MHz / 64QAM

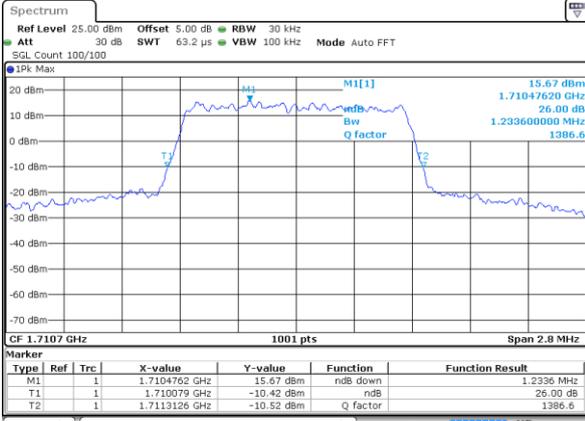


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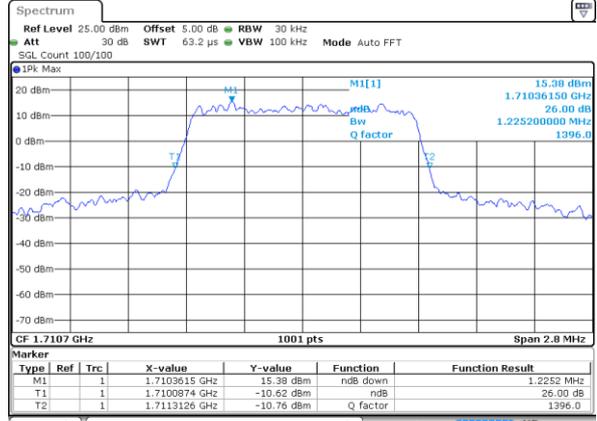
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



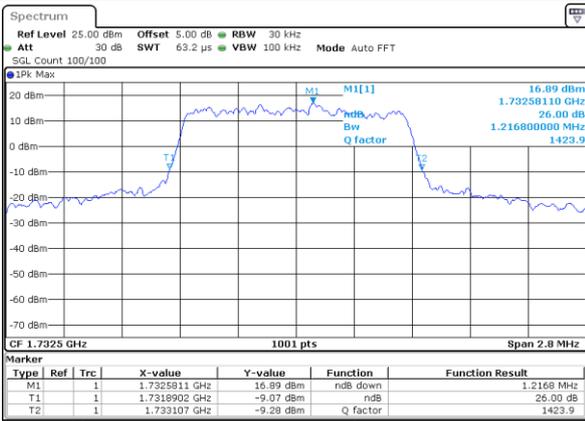
Date: 24 MAR 2019 10:21:32

Lowest Channel / 1.4MHz / 16QAM



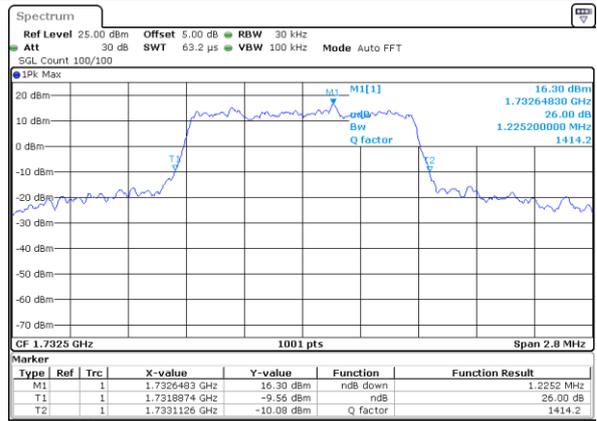
Date: 24 MAR 2019 10:21:43

Middle Channel / 1.4MHz / QPSK



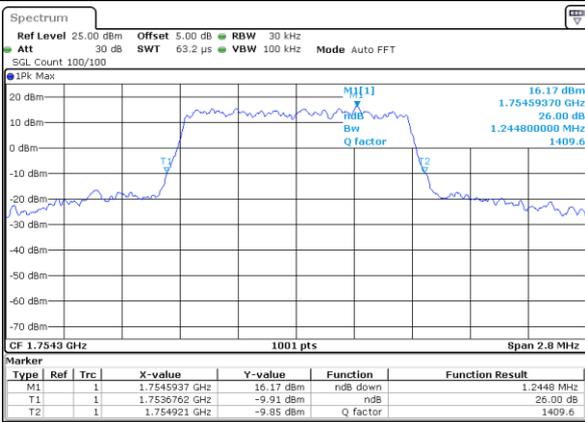
Date: 24 MAR 2019 10:28:36

Middle Channel / 1.4MHz / 16QAM



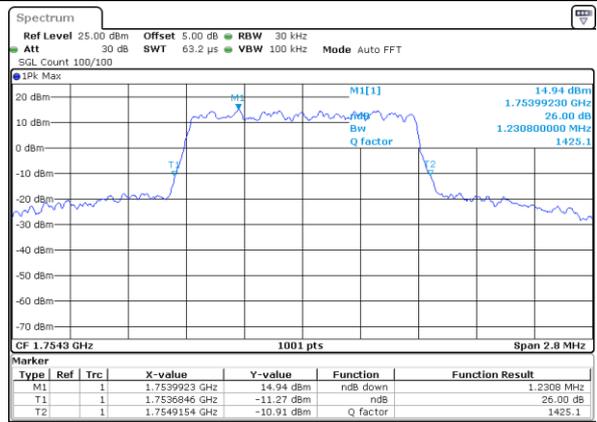
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Highest Channel / 1.4MHz / QPSK



Date: 24 MAR 2019 10:31:09

Highest Channel / 1.4MHz / 16QAM

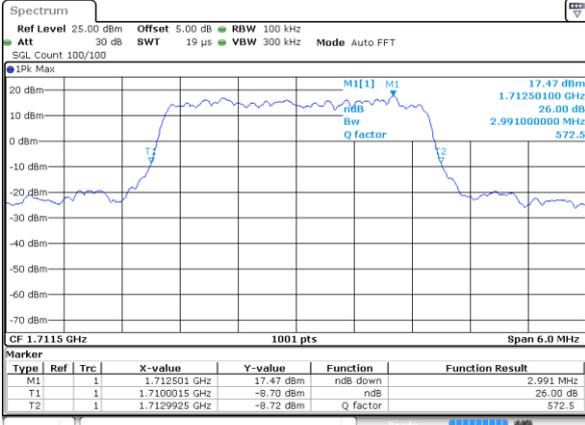


Date: 24 MAR 2019 10:31:19



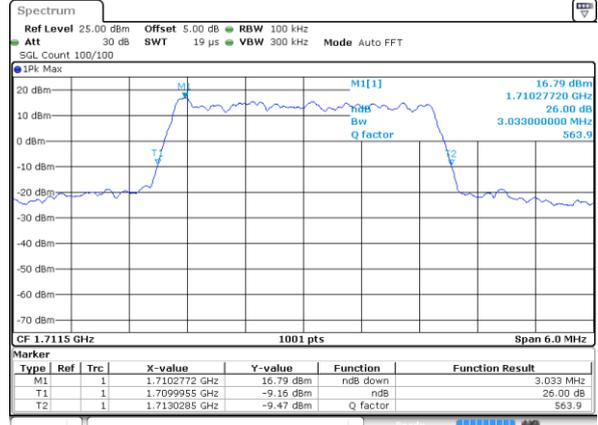
LTE Band 4

Lowest Channel / 3MHz / QPSK



Date: 24 MAR 2019 10:38:12

Lowest Channel / 3MHz / 16QAM



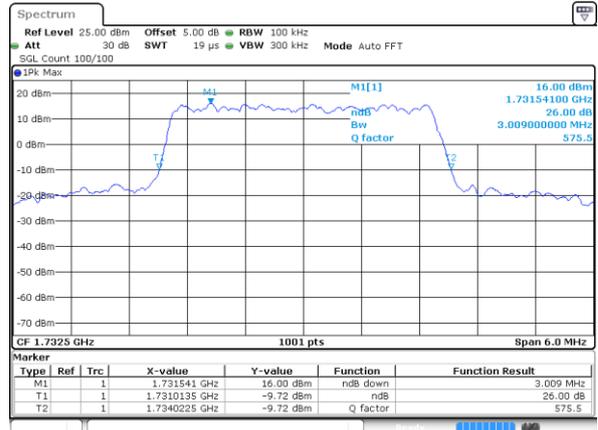
Date: 24 MAR 2019 10:38:23

Middle Channel / 3MHz / QPSK



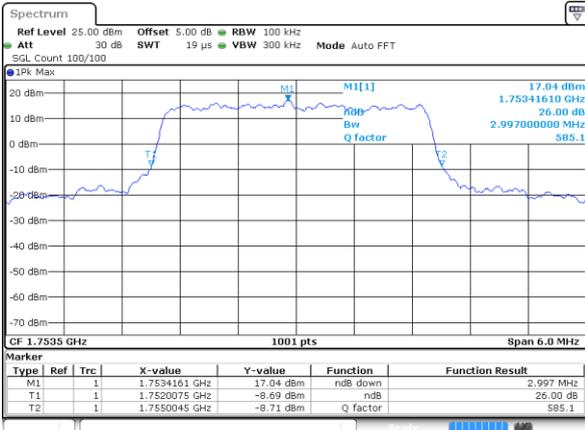
Date: 24 MAR 2019 10:45:16

Middle Channel / 3MHz / 16QAM



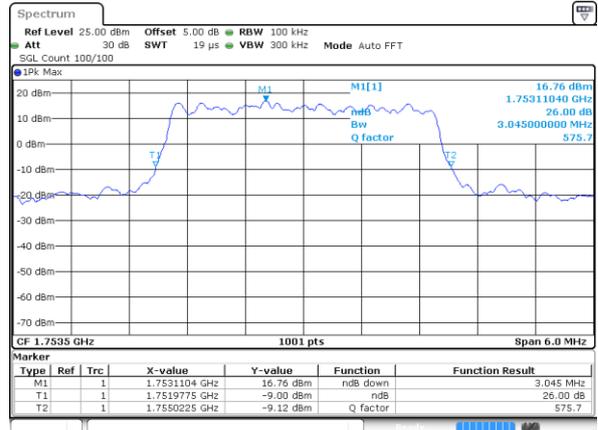
Date: 24 MAR 2019 10:45:27

Highest Channel / 3MHz / QPSK



Date: 24 MAR 2019 10:47:49

Highest Channel / 3MHz / 16QAM

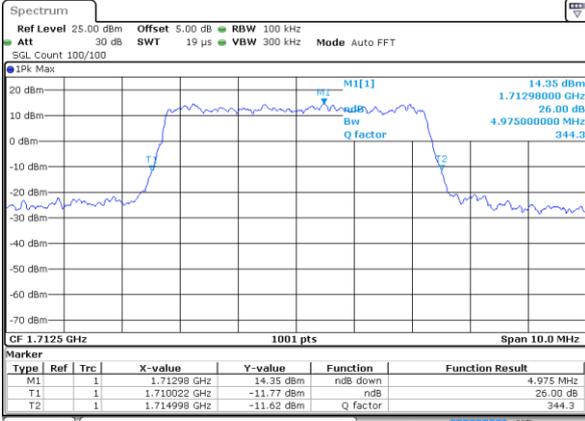


Date: 24 MAR 2019 10:48:00



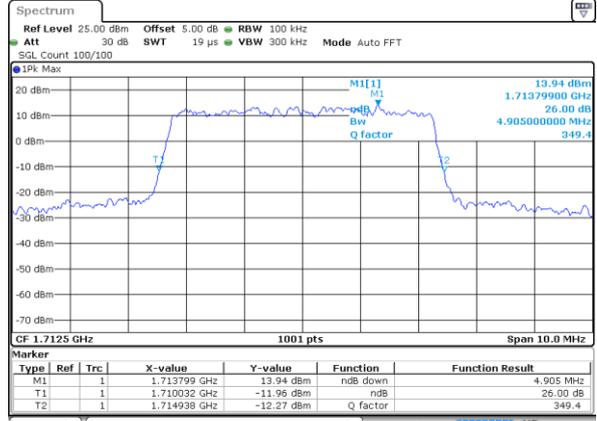
LTE Band 4

Lowest Channel / 5MHz / QPSK



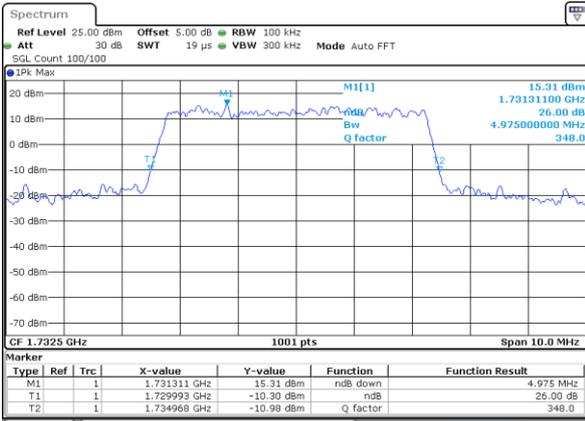
Date: 24 MAR 2019 10:54:53

Lowest Channel / 5MHz / 16QAM



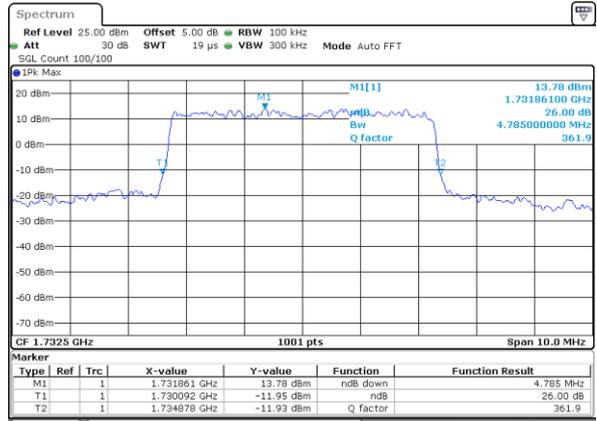
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Middle Channel / 5MHz / QPSK



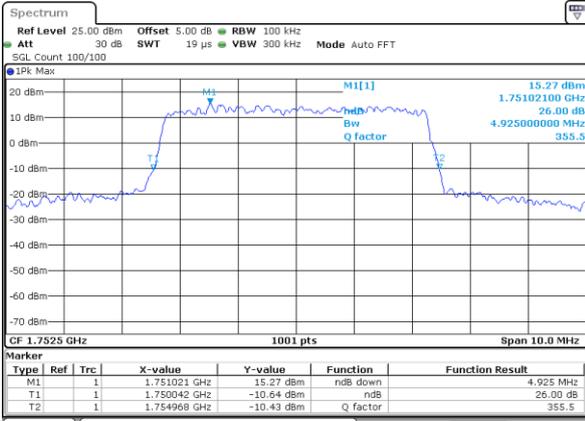
Date: 24 MAR 2019 11:01:56

Middle Channel / 5MHz / 16QAM



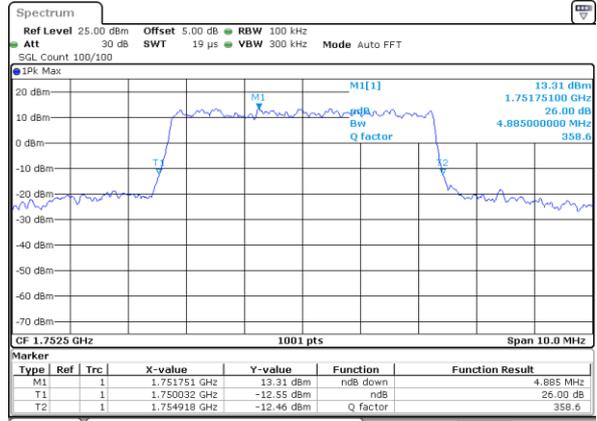
Date: 24 MAR 2019 11:02:07

Highest Channel / 5MHz / QPSK



Date: 24 MAR 2019 11:04:29

Highest Channel / 5MHz / 16QAM



Date: 24 MAR 2019 11:04:40



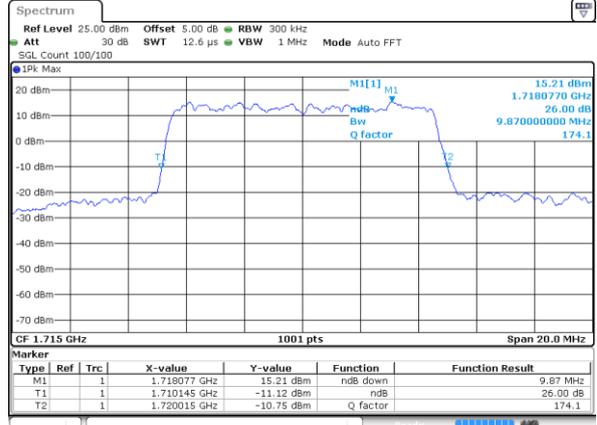
LTE Band 4

Lowest Channel / 10MHz / QPSK



Date: 24 MAR 2019 11:11:33

Lowest Channel / 10MHz / 16QAM



Date: 24 MAR 2019 11:11:43

Middle Channel / 10MHz / QPSK



Date: 24 MAR 2019 11:18:36

Middle Channel / 10MHz / 16QAM



Date: 24 MAR 2019 11:18:47

Highest Channel / 10MHz / QPSK



Date: 24 MAR 2019 11:21:09

Highest Channel / 10MHz / 16QAM

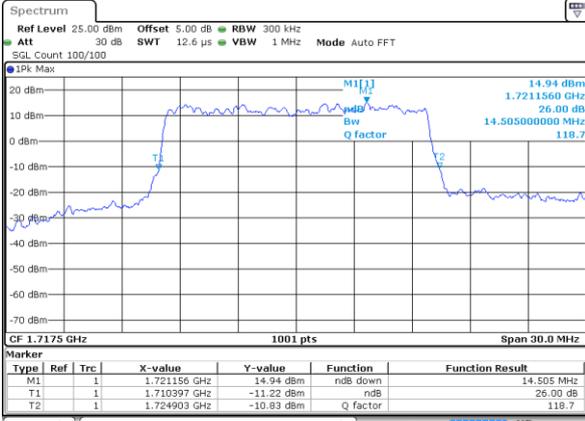


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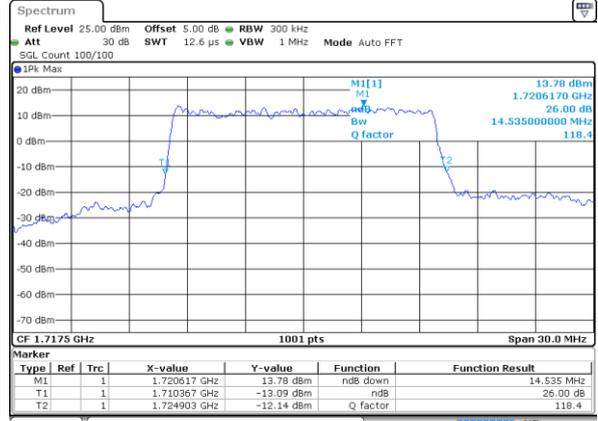
LTE Band 4

Lowest Channel / 15MHz / QPSK



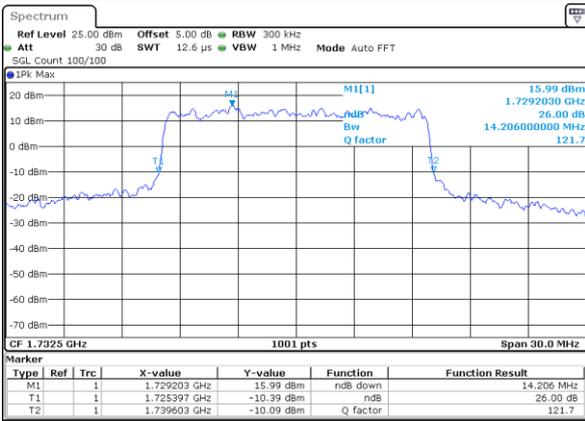
Date: 24 MAR 2019 11:28:13

Lowest Channel / 15MHz / 16QAM



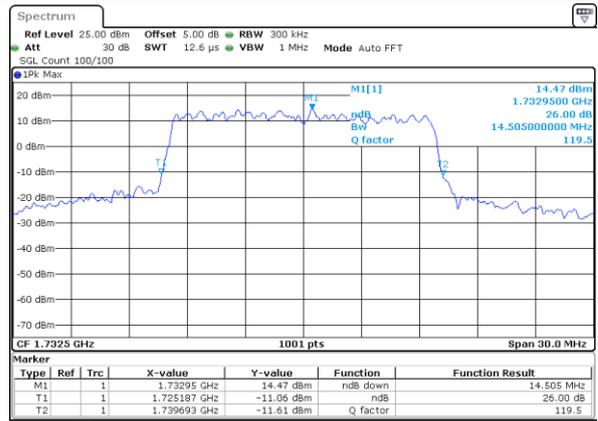
Date: 24 MAR 2019 11:28:24

Middle Channel / 15MHz / QPSK



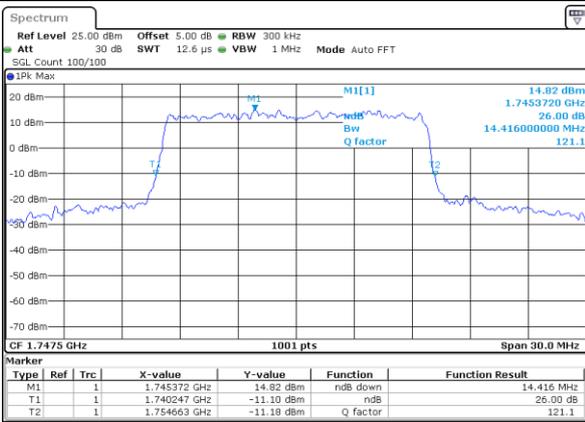
Date: 24 MAR 2019 11:35:18

Middle Channel / 15MHz / 16QAM



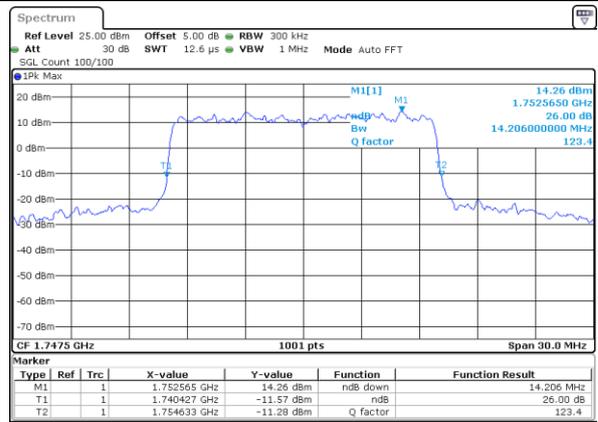
Date: 24 MAR 2019 11:35:28

Highest Channel / 15MHz / QPSK



Date: 24 MAR 2019 11:37:50

Highest Channel / 15MHz / 16QAM

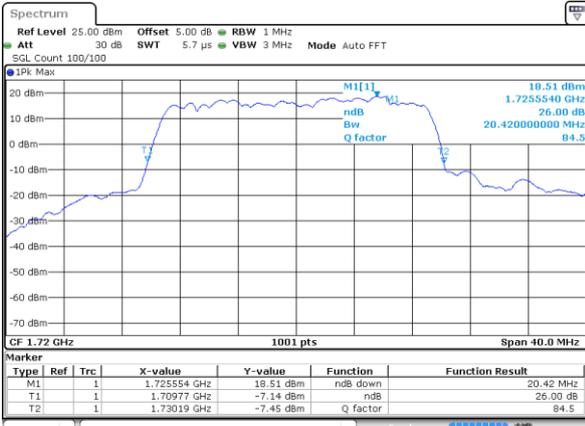


Date: 24 MAR 2019 11:38:01



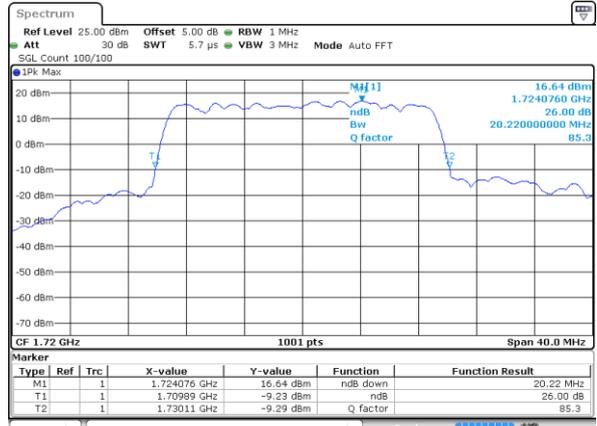
LTE Band 4

Lowest Channel / 20MHz / QPSK



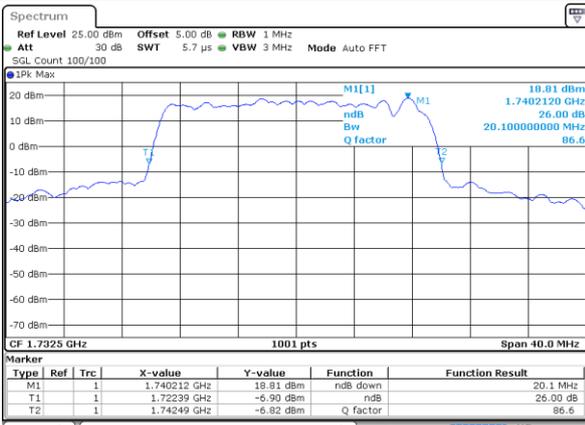
Date: 24 MAR 2019 11:44:54

Lowest Channel / 20MHz / 16QAM



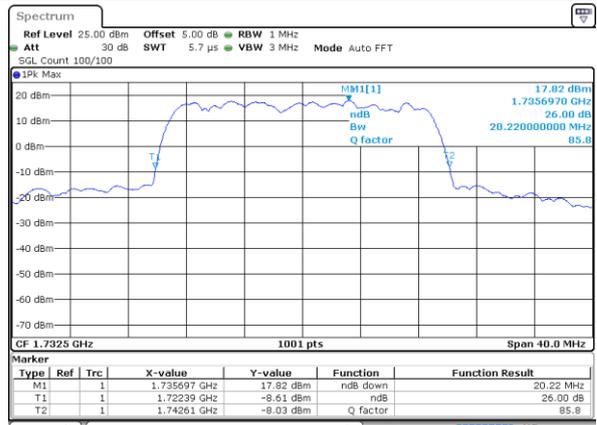
Date: 24 MAR 2019 11:45:05

Middle Channel / 20MHz / QPSK



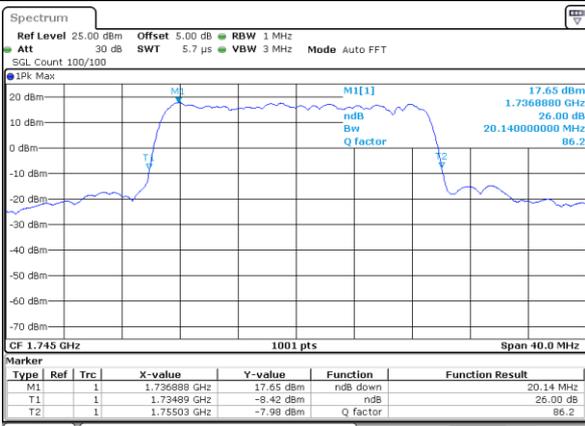
Date: 24 MAR 2019 11:51:58

Middle Channel / 20MHz / 16QAM



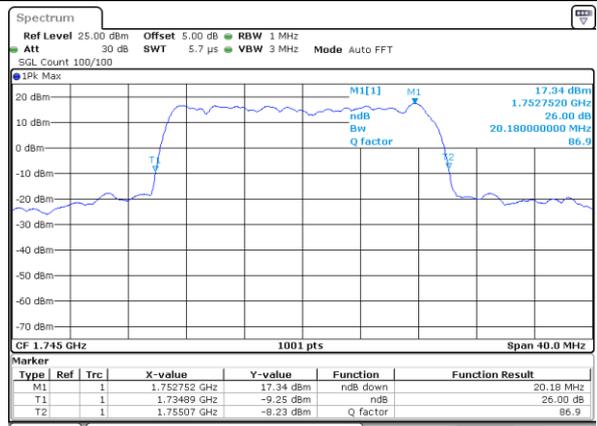
Date: 24 MAR 2019 11:52:09

Highest Channel / 20MHz / QPSK



Date: 24 MAR 2019 11:54:38

Highest Channel / 20MHz / 16QAM

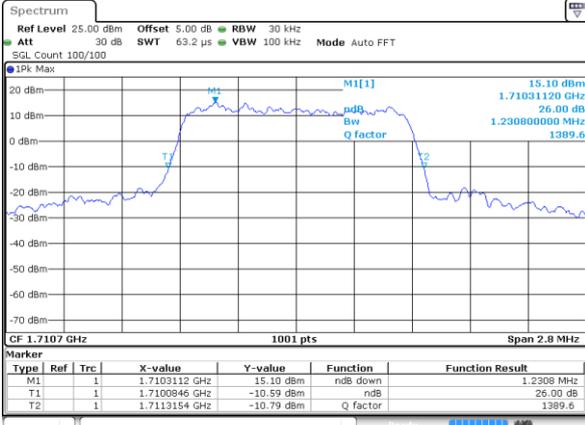


Date: 24 MAR 2019 11:54:50



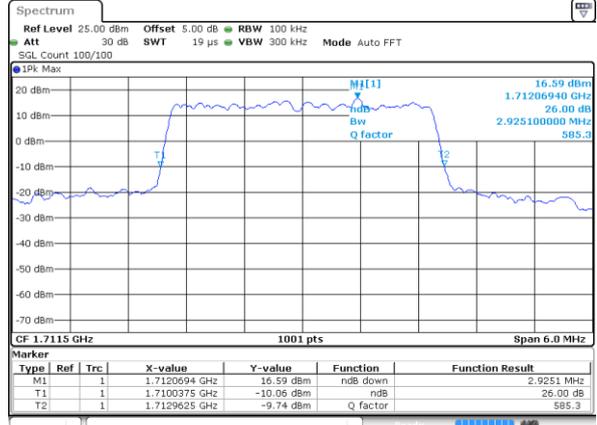
LTE Band 4

Lowest Channel / 1.4MHz / 64QAM



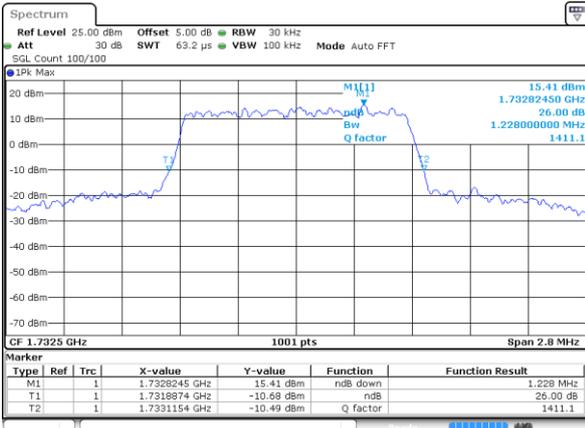
Date: 24 MAR 2019 12:01:38

Lowest Channel / 3MHz / 64QAM



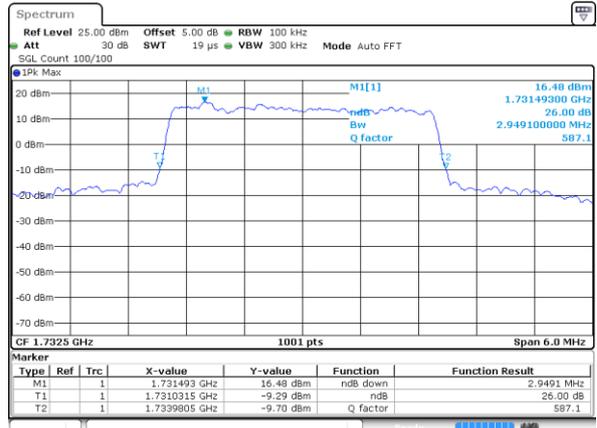
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Middle Channel / 1.4MHz / 64QAM



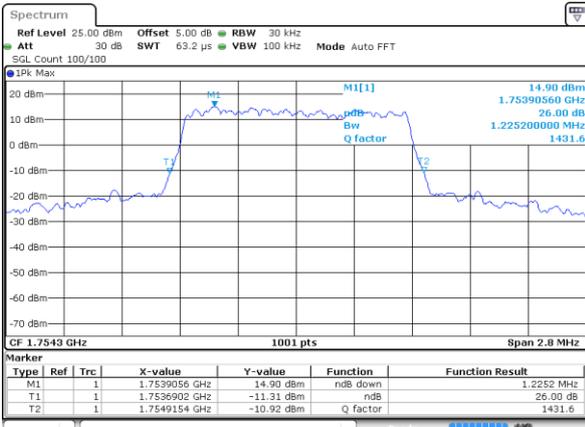
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Middle Channel / 3MHz / 64QAM



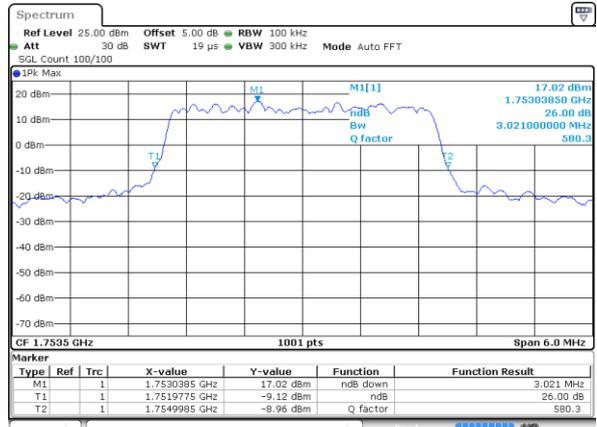
Date: 24 MAR 2019 12:13:32

Highest Channel / 1.4MHz / 64QAM



Date: 24 MAR 2019 12:06:27

Highest Channel / 3MHz / 64QAM

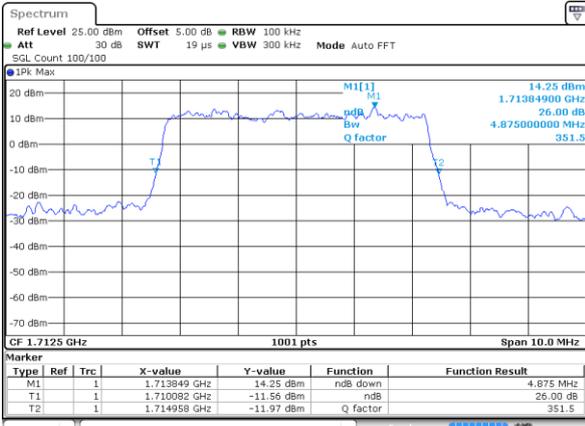


Date: 24 MAR 2019 12:14:49



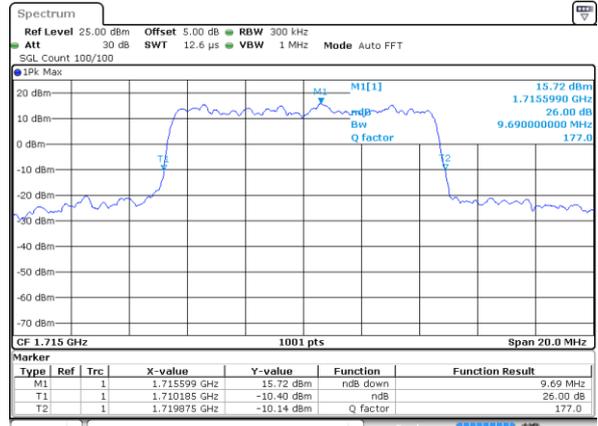
LTE Band 4

Lowest Channel / 5MHz / 64QAM



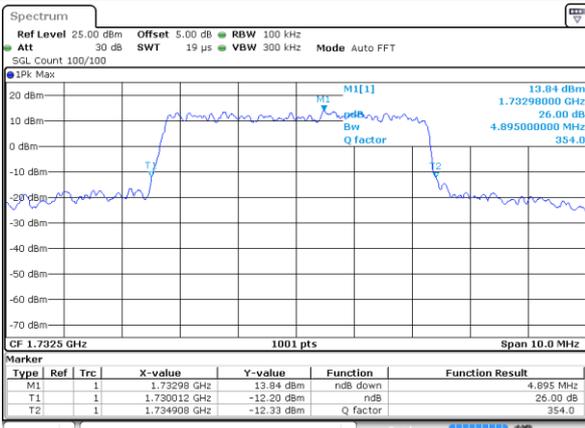
Date: 24 MAR 2019 12:18:21

Lowest Channel / 10MHz / 64QAM



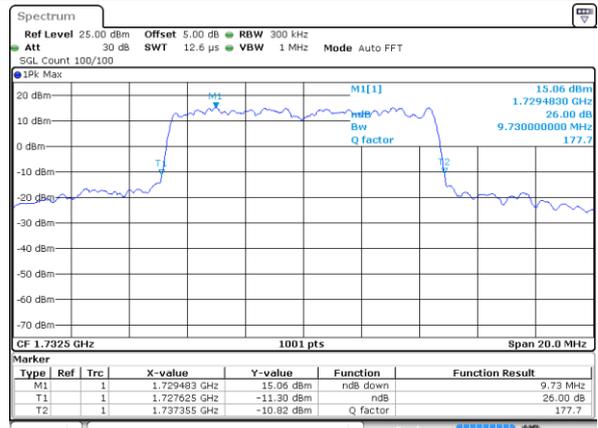
Date: 24 MAR 2019 12:26:42

Middle Channel / 5MHz / 64QAM



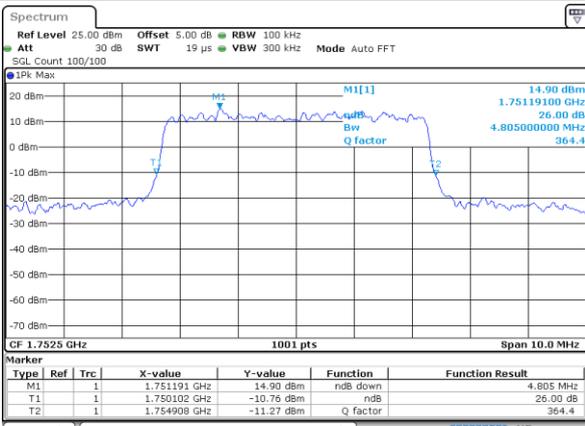
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Middle Channel / 10MHz / 64QAM



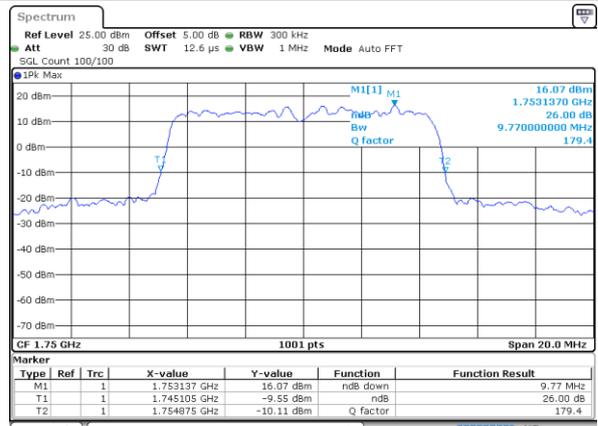
Date: 24 MAR 2019 12:30:14

Highest Channel / 5MHz / 64QAM



Date: 24 MAR 2019 12:23:10

Highest Channel / 10MHz / 64QAM

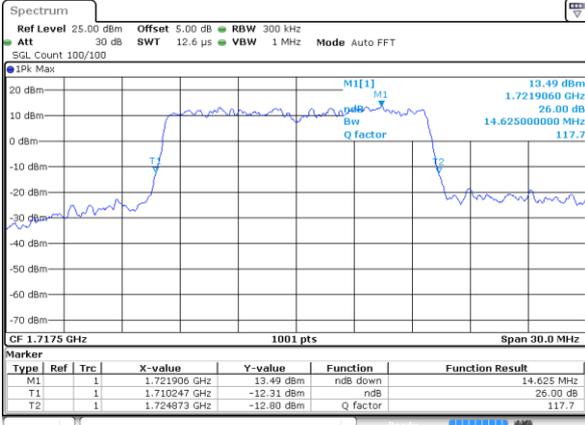


Date: 24 MAR 2019 12:31:31



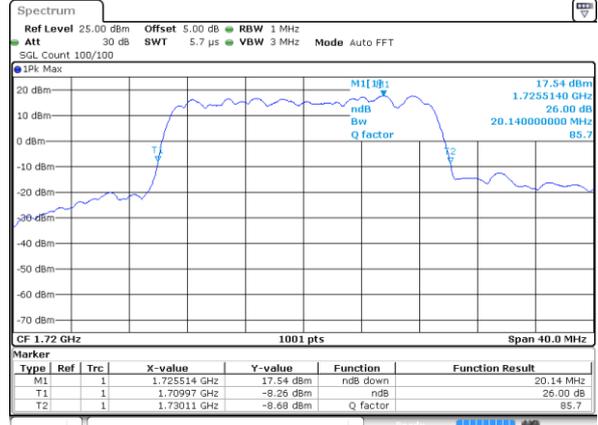
LTE Band 4

Lowest Channel / 15MHz / 64QAM



Date: 24 MAR 2019 12:35:03

Lowest Channel / 20MHz / 64QAM



Date: 24 MAR 2019 12:43:25

Middle Channel / 15MHz / 64QAM



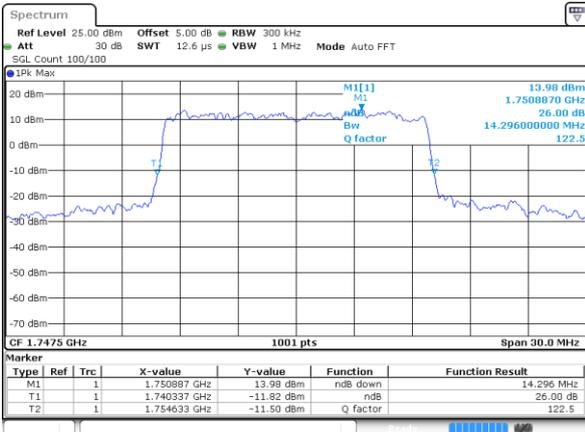
Date: 24 MAR 2019 12:38:36

Middle Channel / 20MHz / 64QAM



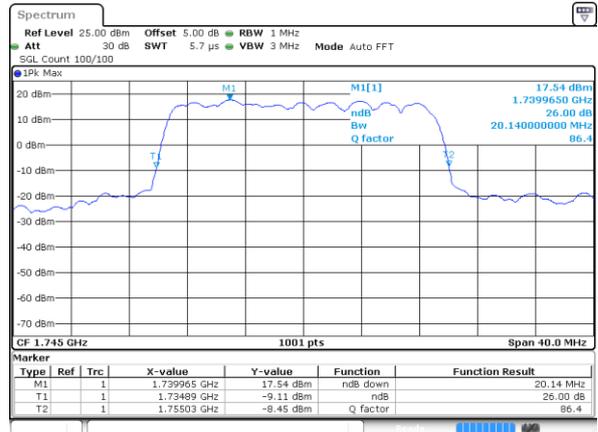
Date: 24 MAR 2019 12:47:02

Highest Channel / 15MHz / 64QAM



Date: 24 MAR 2019 12:39:52

Highest Channel / 20MHz / 64QAM

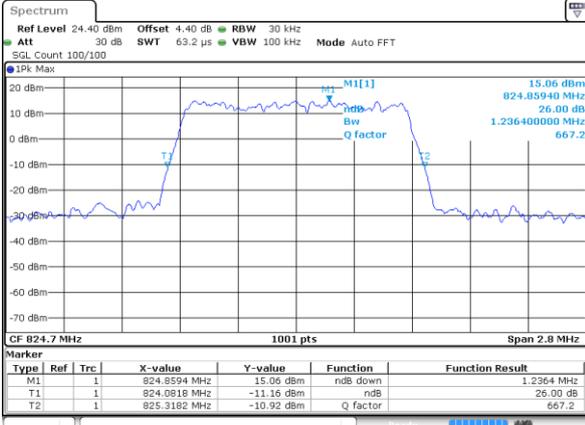


Date: 24 MAR 2019 12:48:21



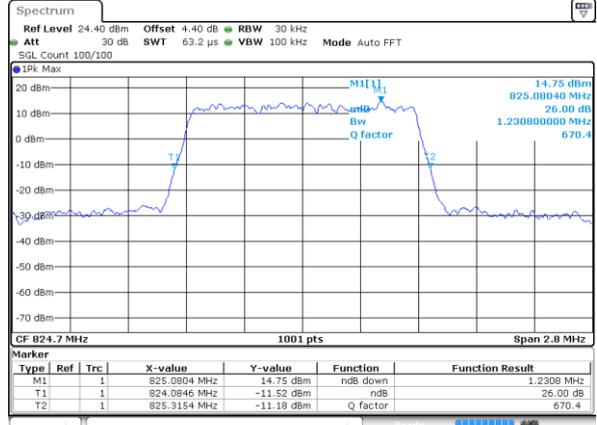
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



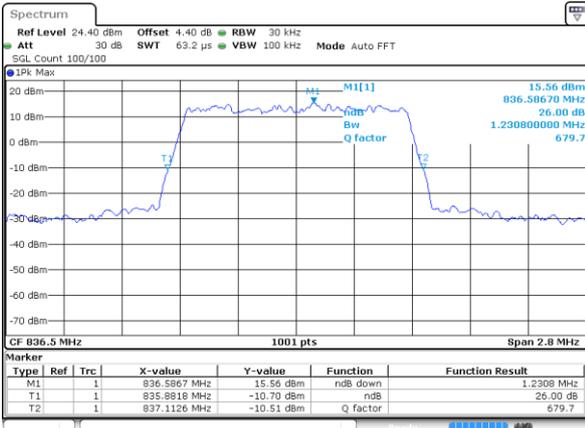
Date: 24 MAR 2019 17:45:43

Lowest Channel / 1.4MHz / 16QAM



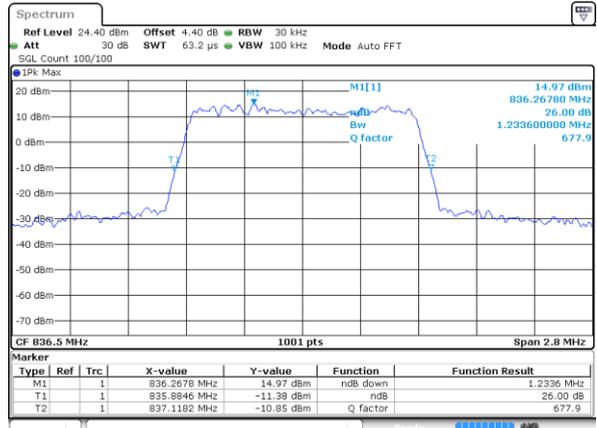
Date: 24 MAR 2019 17:45:32

Middle Channel / 1.4MHz / QPSK



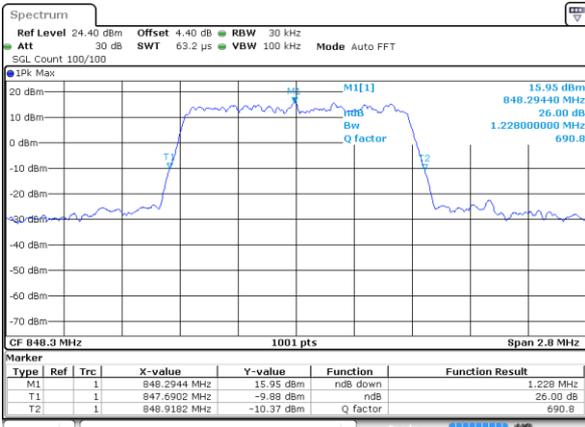
Date: 24 MAR 2019 17:54:48

Middle Channel / 1.4MHz / 16QAM



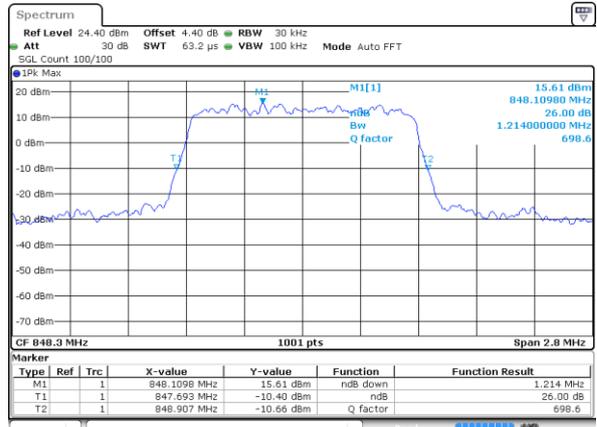
Date: 24 MAR 2019 17:55:04

Highest Channel / 1.4MHz / QPSK



Date: 24 MAR 2019 17:57:30

Highest Channel / 1.4MHz / 16QAM

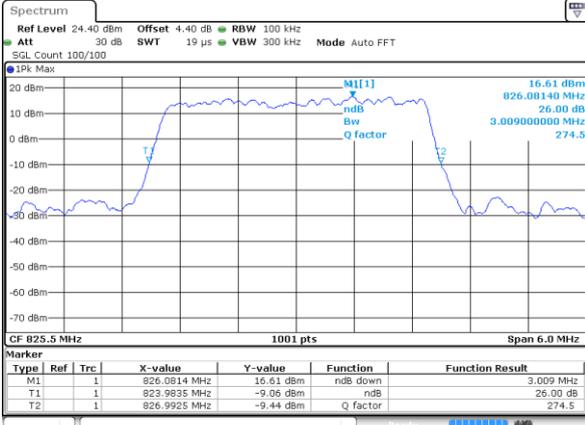


Date: 24 MAR 2019 17:57:41



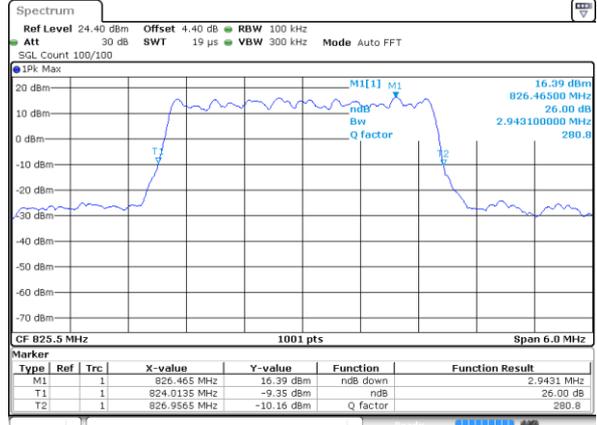
LTE Band 5

Lowest Channel / 3MHz / QPSK



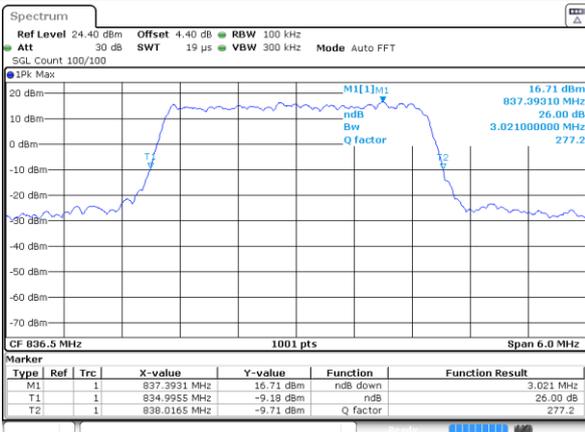
Date: 24 MAR 2019 18:06:34

Lowest Channel / 3MHz / 16QAM



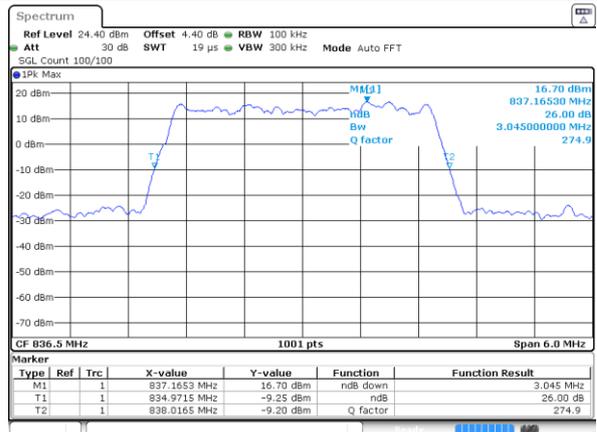
Date: 24 MAR 2019 18:06:44

Middle Channel / 3MHz / QPSK



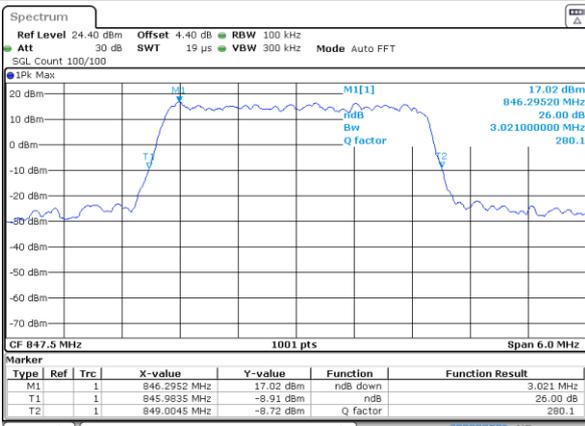
Date: 25 MAR 2019 16:51:21

Middle Channel / 3MHz / 16QAM



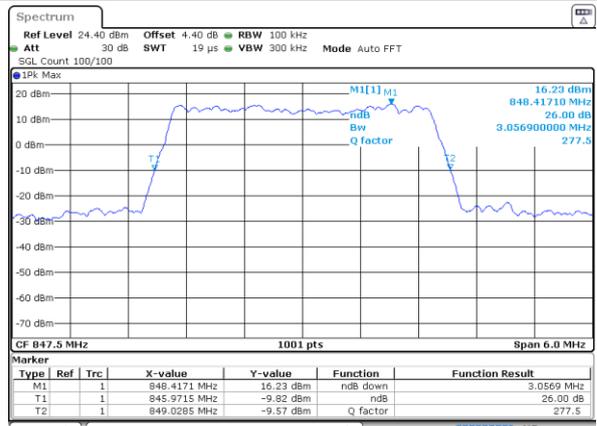
Date: 25 MAR 2019 16:51:47

Highest Channel / 3MHz / QPSK



Date: 25 MAR 2019 16:53:08

Highest Channel / 3MHz / 16QAM



Date: 25 MAR 2019 16:52:24