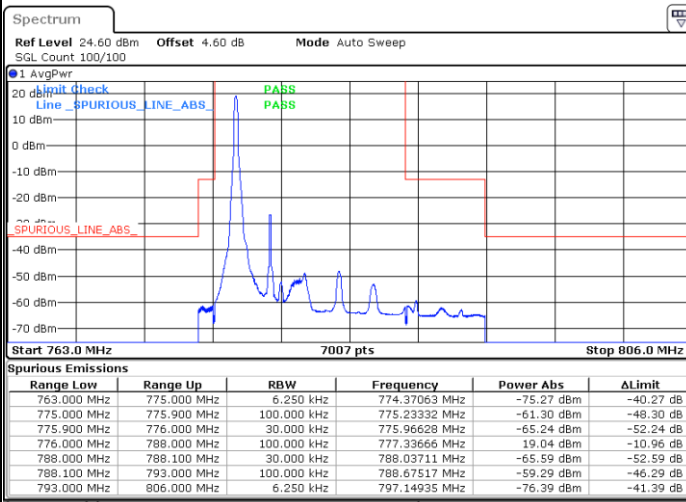




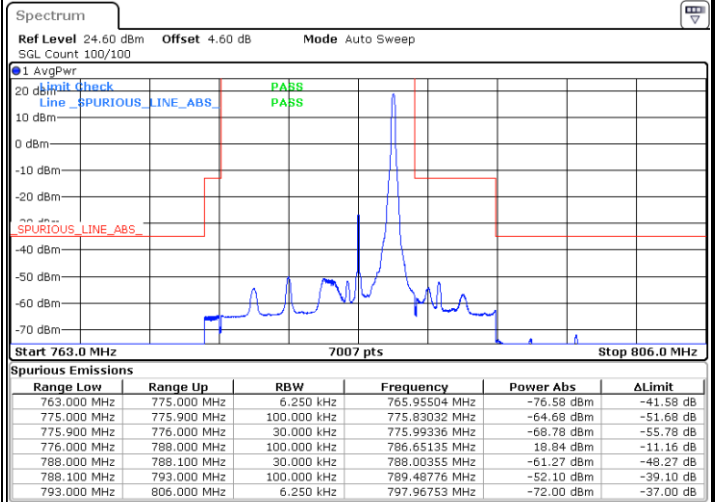
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



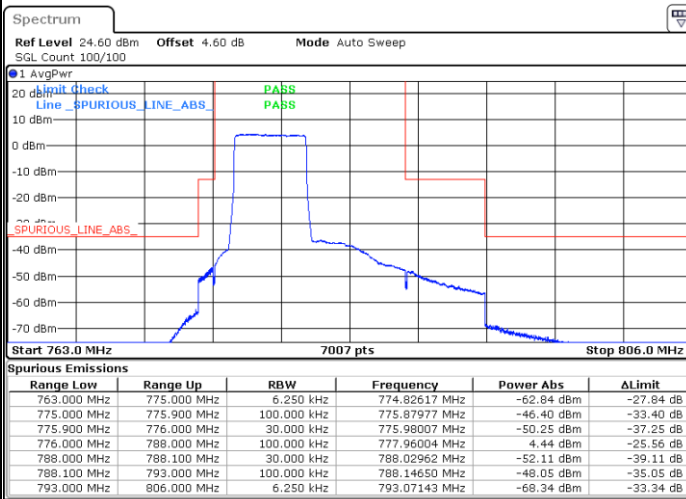
Date: 14.OCT.2019 21:50:55



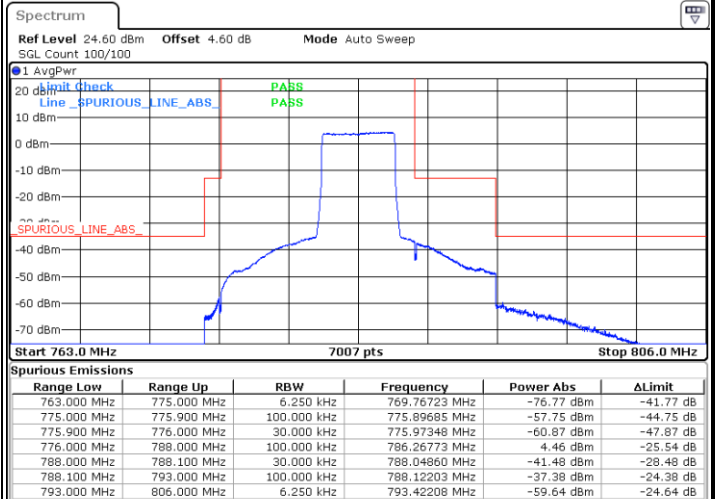
Date: 14.OCT.2019 21:55:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.OCT.2019 21:52:34

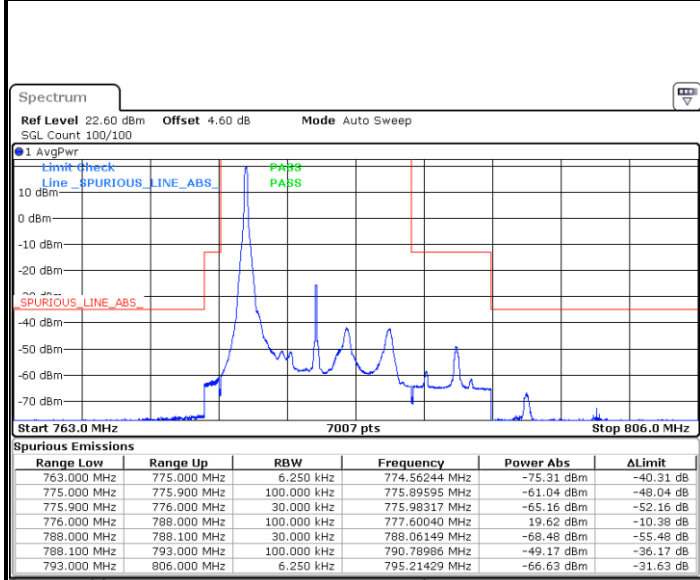


Date: 14.OCT.2019 21:54:13



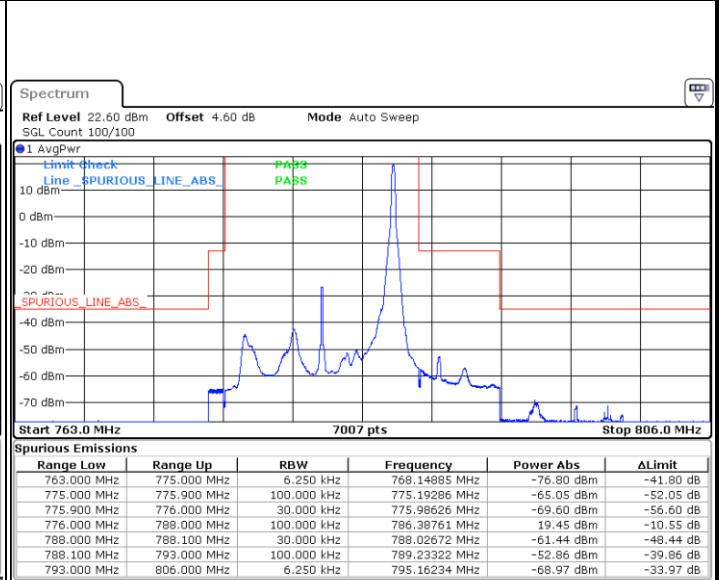
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



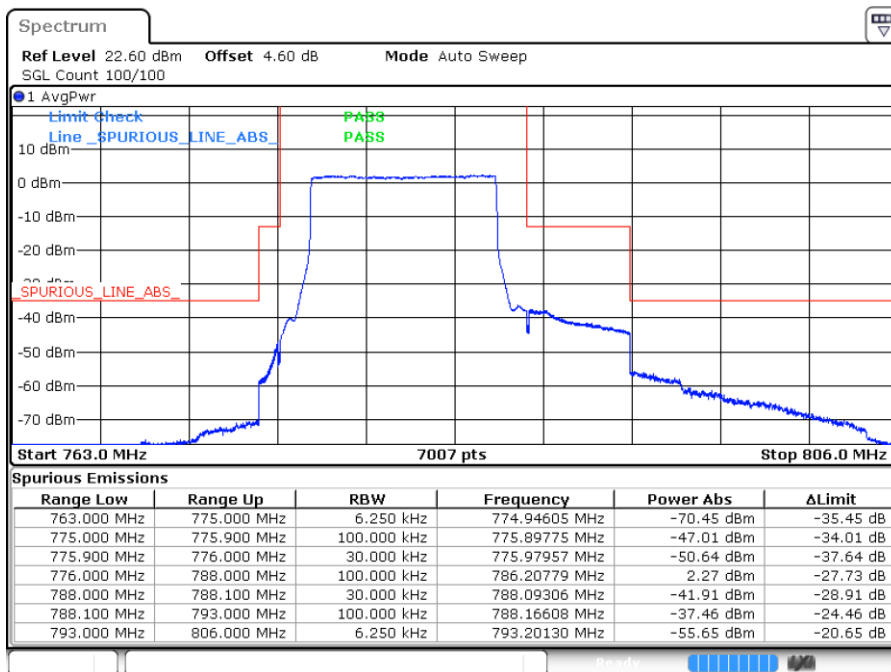
Date: 14.OCT.2019 21:22:48

Highest Band Edge / 1 RB



Date: 14.OCT.2019 21:24:51

Band Edge / Full RB

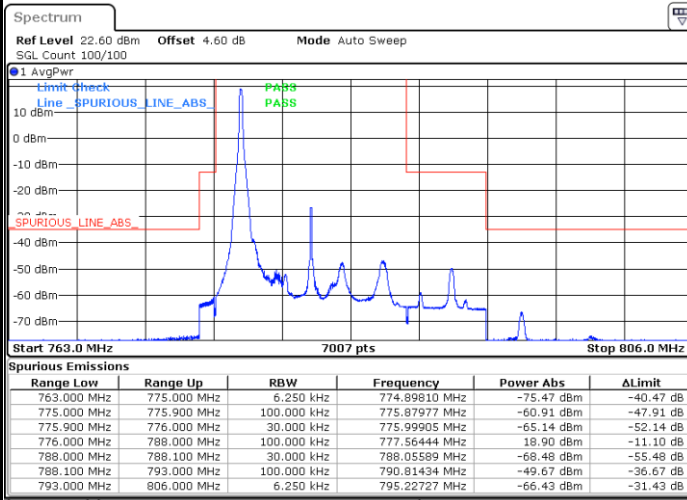


Date: 14.OCT.2019 21:11:05



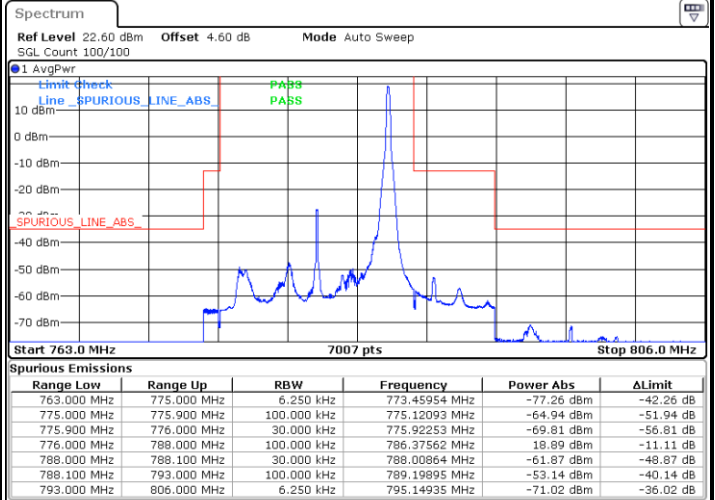
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



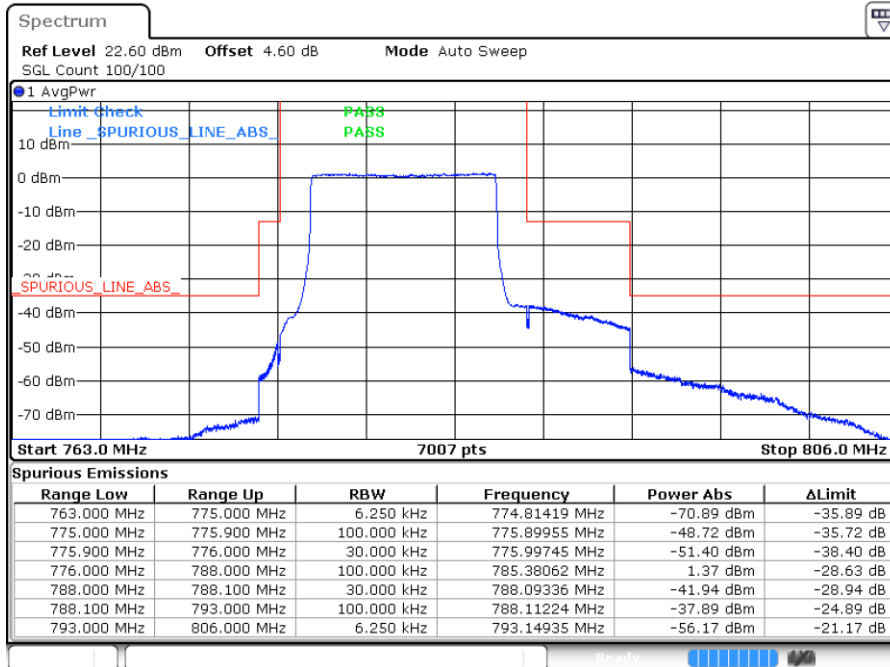
Date: 14.OCT.2019 21:20:28

Highest Band Edge / 1 RB



Date: 14.OCT.2019 21:26:09

Band Edge / Full RB

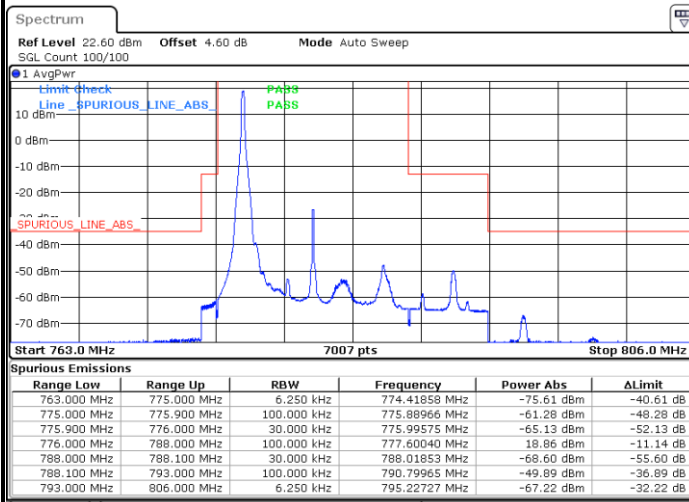


Date: 14.OCT.2019 21:13:06



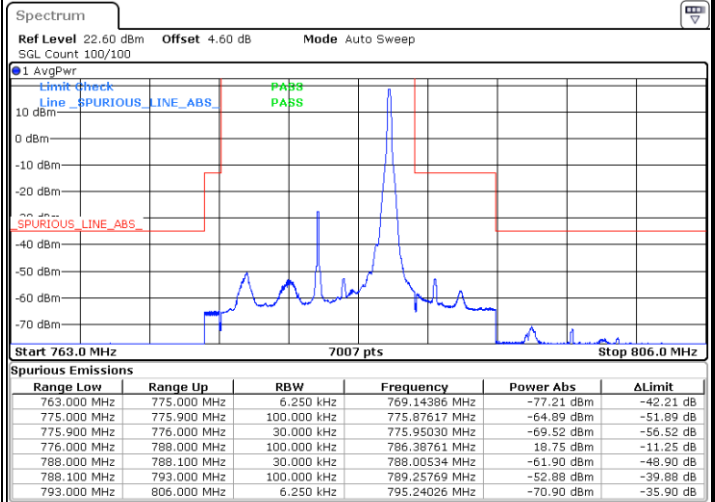
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



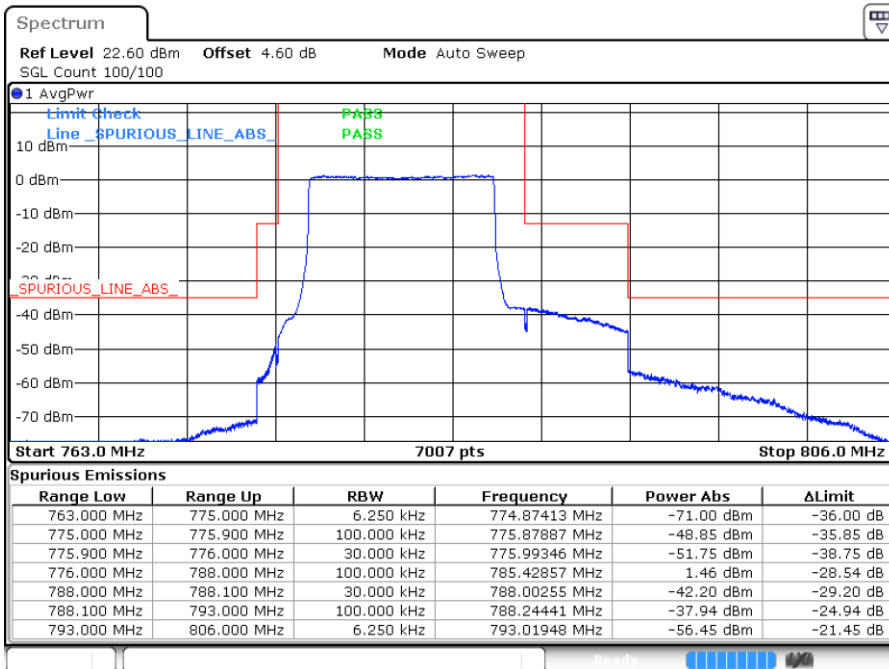
Date: 14.OCT.2019 21:17:26

Highest Band Edge / 1 RB



Date: 14.OCT.2019 21:27:15

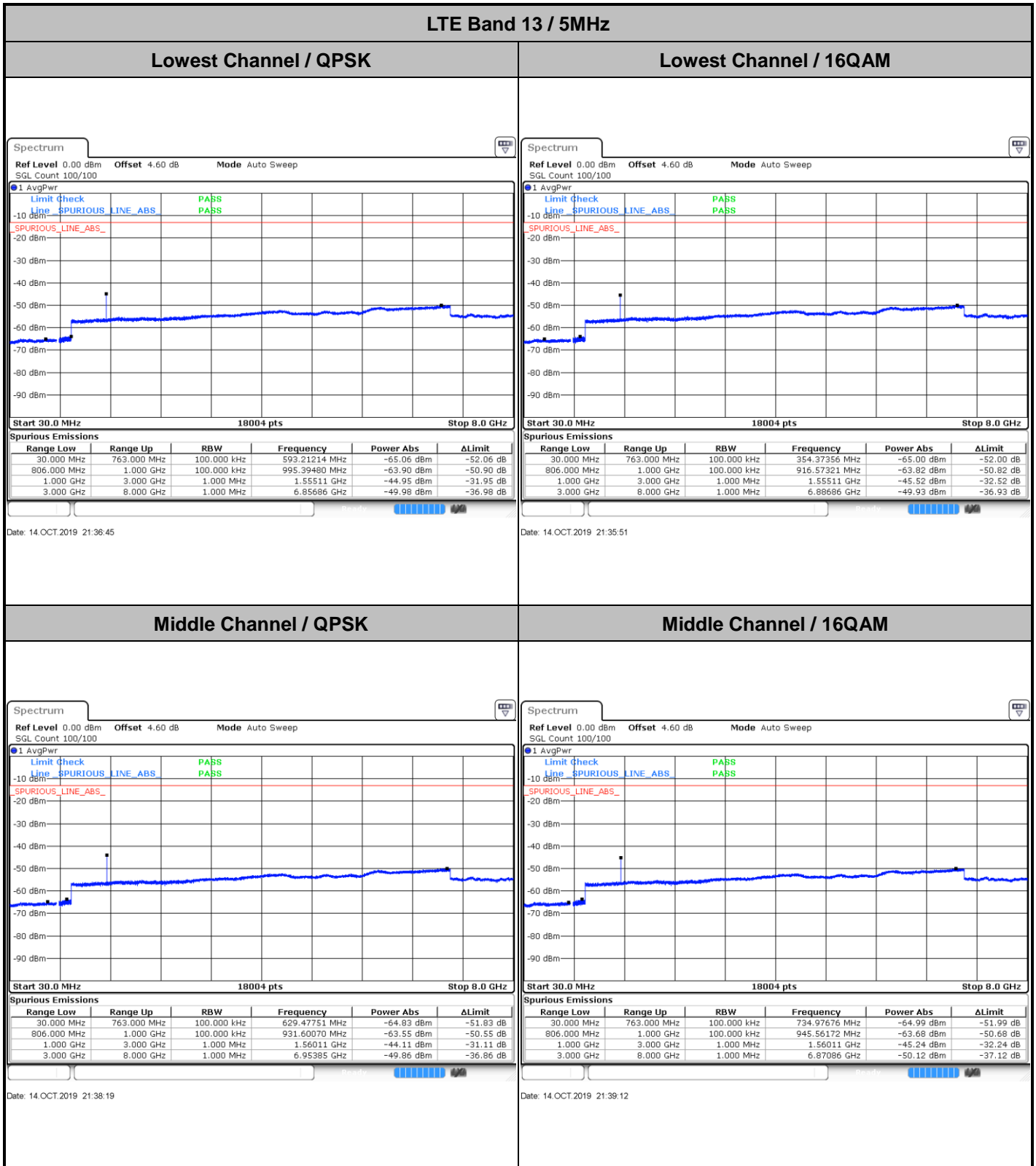
Band Edge / Full RB



Date: 14.OCT.2019 21:15:11



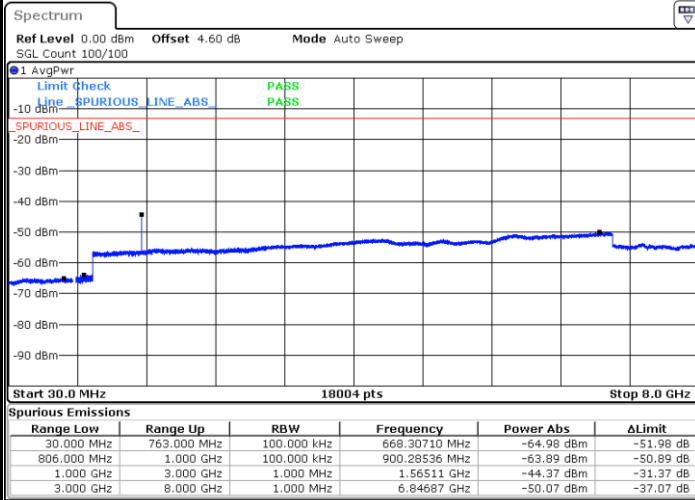
Conducted Spurious Emission





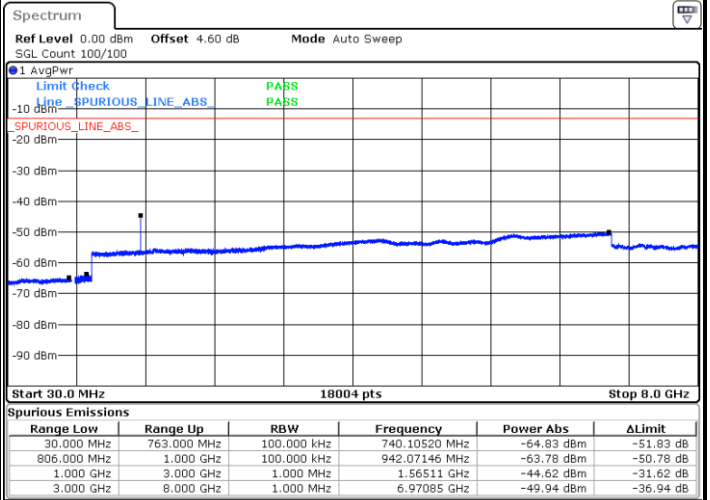
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 14.OCT.2019 21:48:16

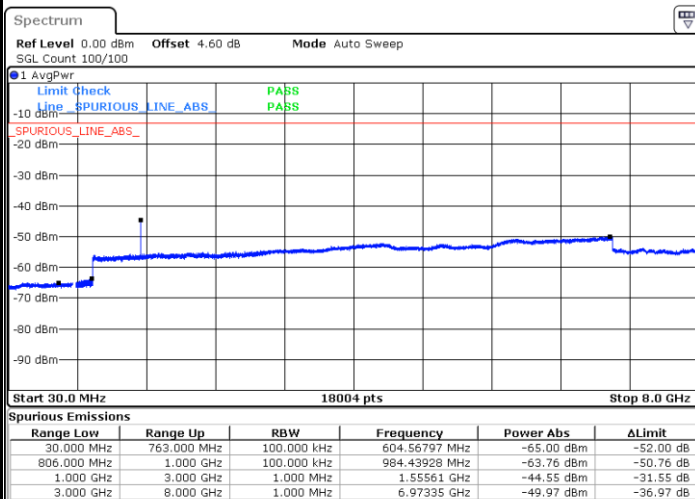
Highest Channel / 16QAM



Date: 14.OCT.2019 21:47:22

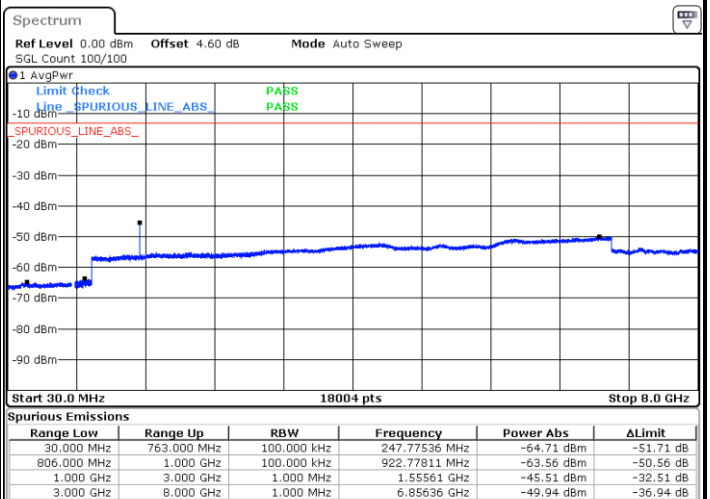
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 14.OCT.2019 21:21:40

Middle Channel / 16QAM



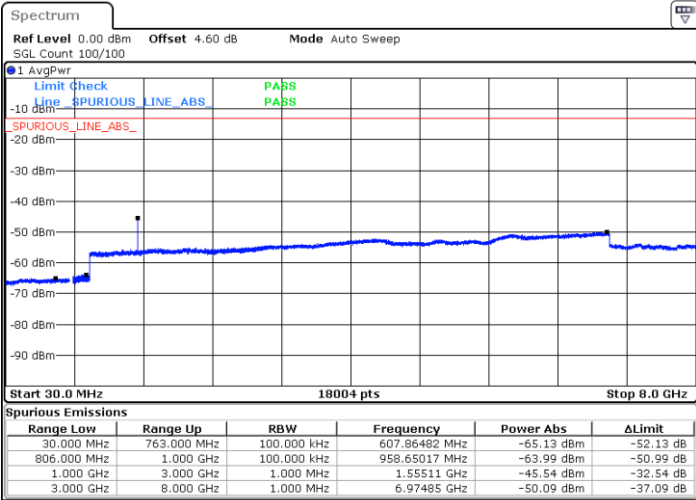
Date: 14.OCT.2019 21:19:15



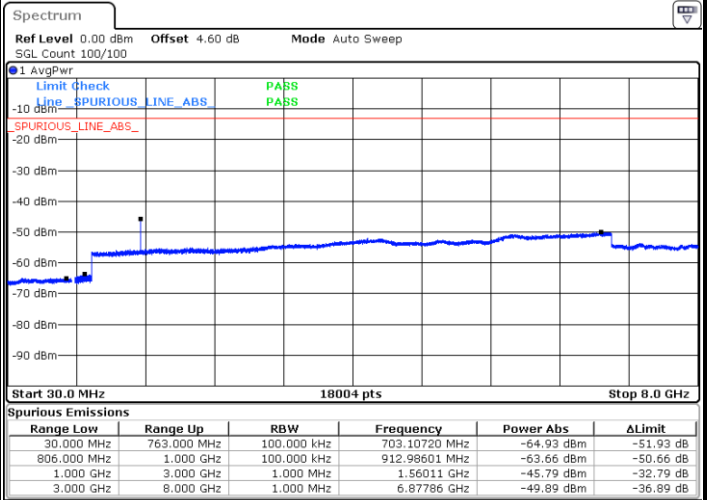
LTE Band 13 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

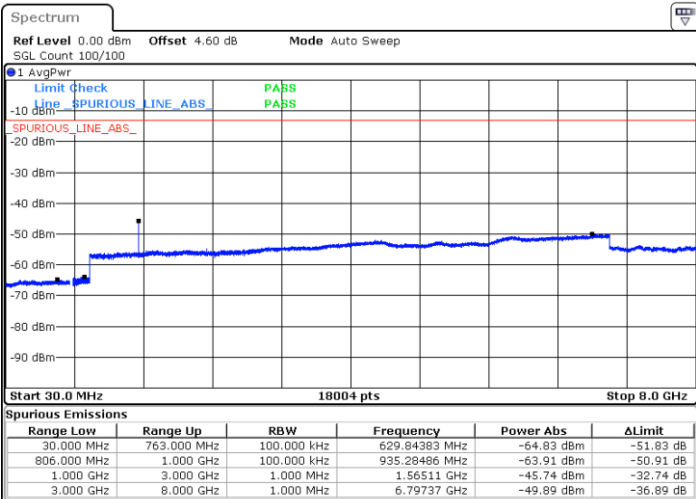


Date: 14.OCT.2019 21:56:46



Date: 14.OCT.2019 21:57:40

Highest Channel / 64QAM

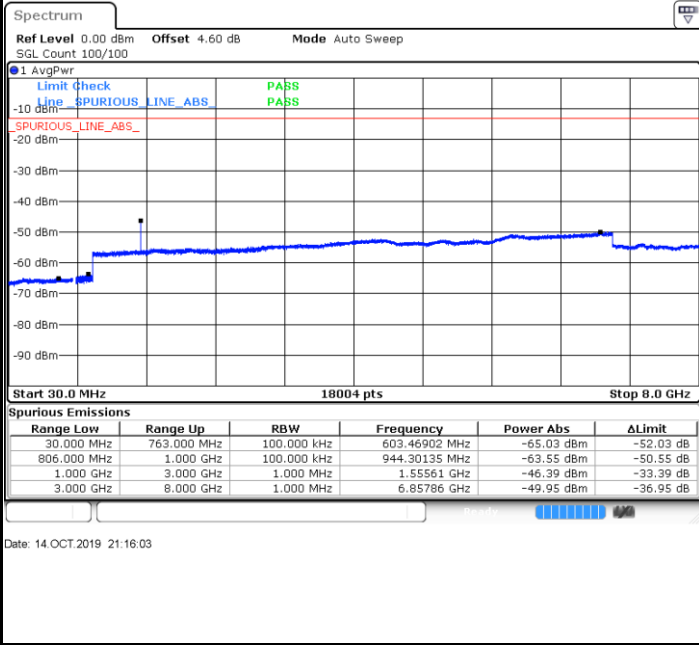


Date: 14.OCT.2019 21:58:33



LTE Band 13 / 10MHz

Middle Channel / 64QAM





Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0045	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0022	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

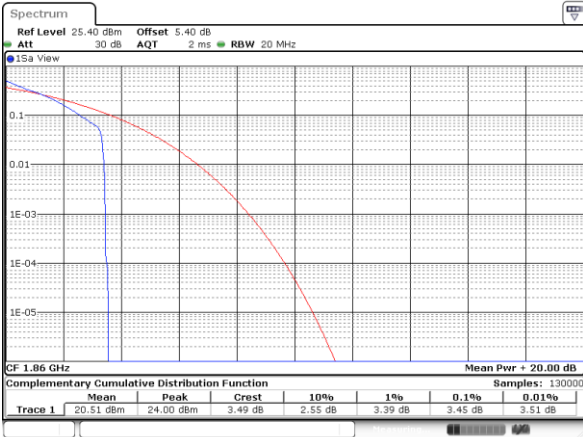
Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.45	4.43	5.07	5.74	PASS
Middle CH	3.59	4.64	5.36	5.91	
Highest CH	3.59	4.61	5.39	6.03	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.93	6.35			PASS
Middle CH	6.81	6.64			
Highest CH	6.20	6.55			



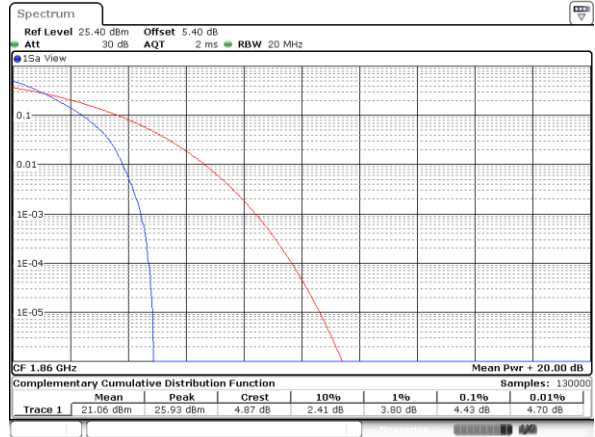
LTE Band 25 / 20MHz / QPSK

Lowest Channel / 1RB



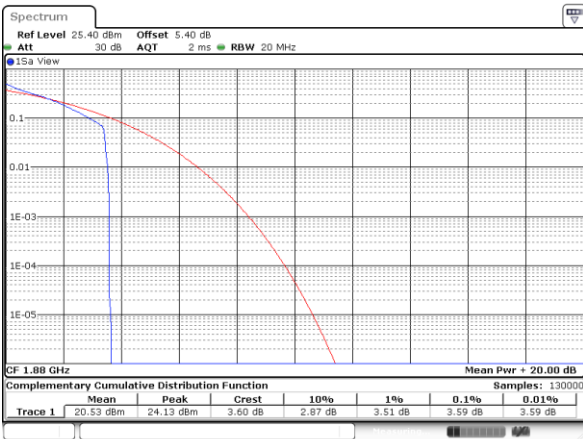
Date: 10.OCT.2019 00:20:36

Lowest Channel / Full RB



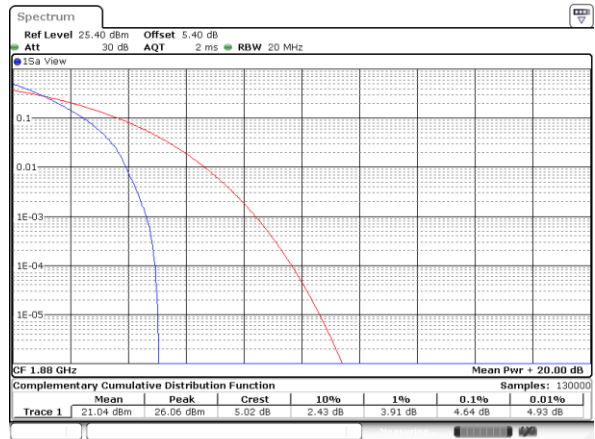
Date: 10.OCT.2019 00:21:21

Middle Channel / 1RB



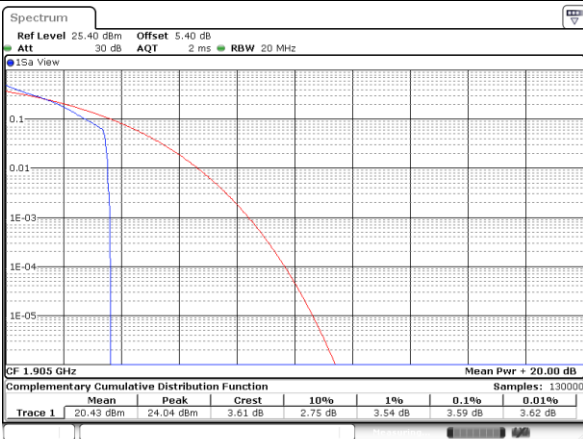
Date: 10.OCT.2019 00:22:13

Middle Channel / Full RB



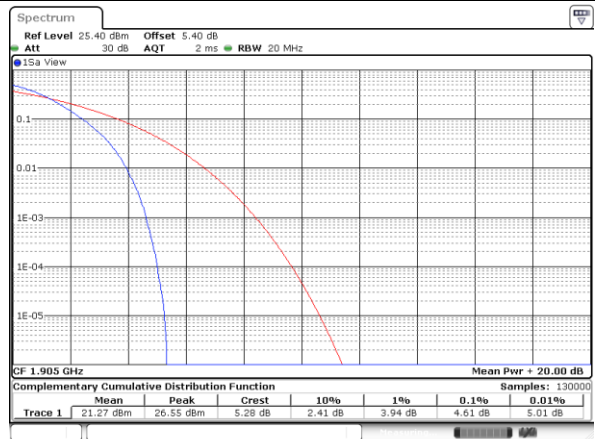
Date: 10.OCT.2019 00:21:30

Highest Channel / 1RB



Date: 10.OCT.2019 00:22:22

Highest Channel / Full RB



Date: 10.OCT.2019 00:27:03



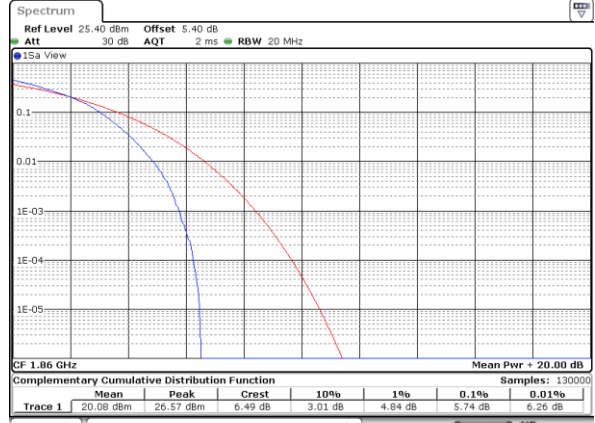
LTE Band 25 / 20MHz / 16QAM

Lowest Channel / 1RB



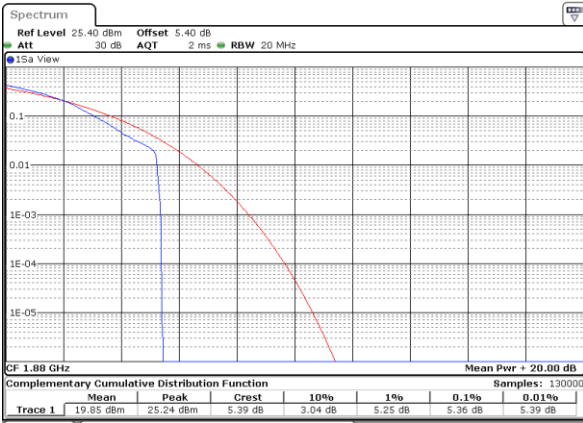
Date: 10.OCT.2019 00:20:46

Lowest Channel / Full RB



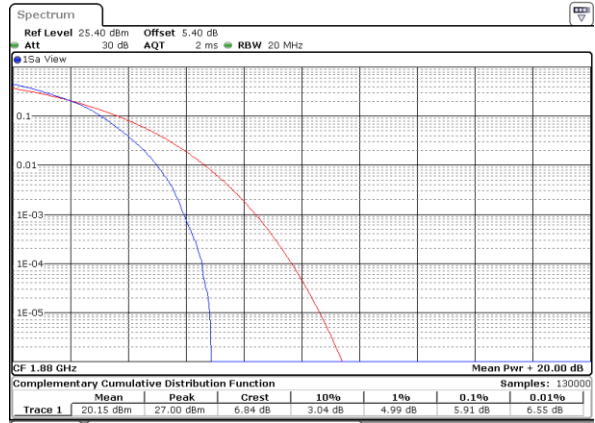
Date: 10.OCT.2019 00:21:13

Middle Channel / 1RB



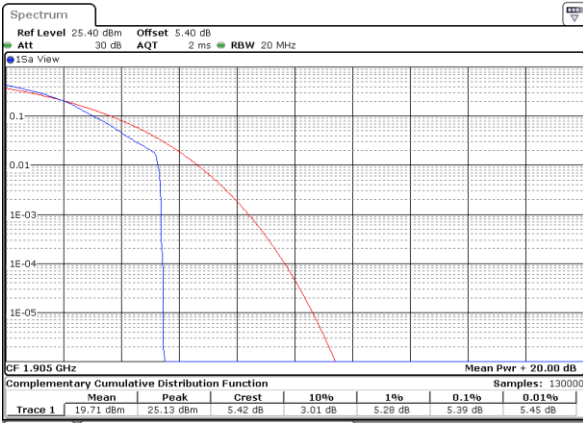
Date: 10.OCT.2019 00:22:05

Middle Channel / Full RB



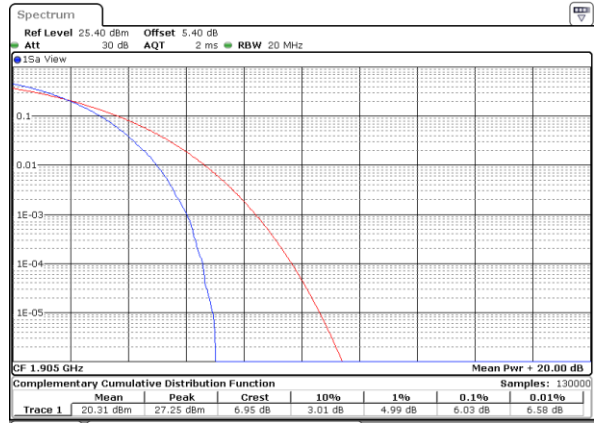
Date: 10.OCT.2019 00:21:39

Highest Channel / 1RB



Date: 10.OCT.2019 00:22:31

Highest Channel / Full RB

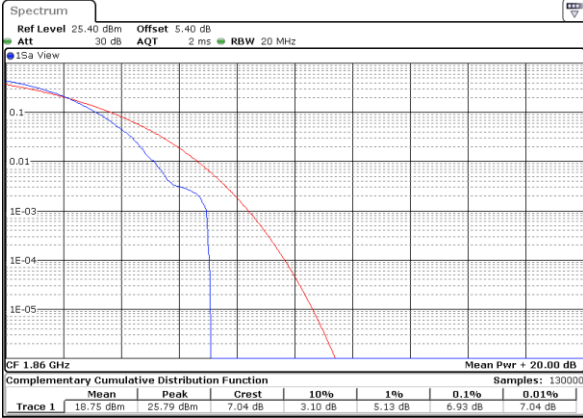


Date: 10.OCT.2019 00:22:18



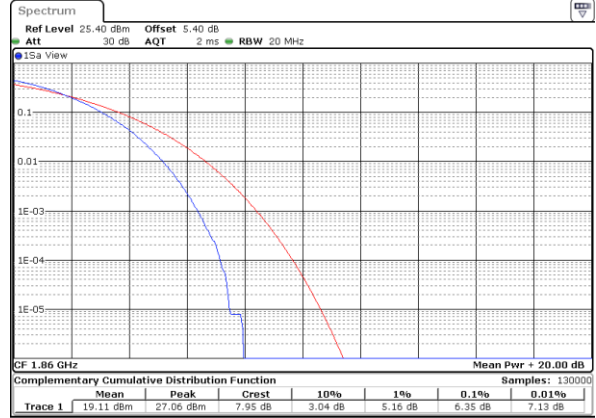
LTE Band 25 / 20MHz / 64QAM

Lowest Channel / 1RB



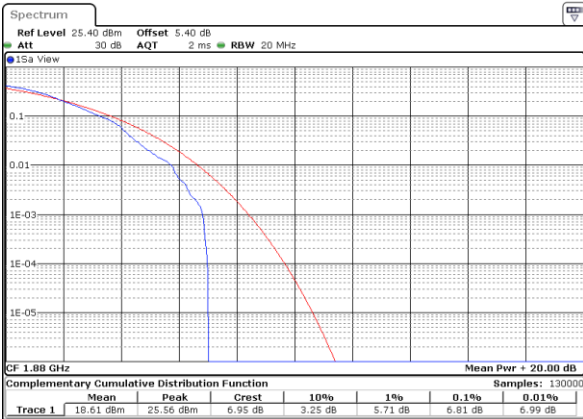
Date: 10.OCT.2019 00:20:55

Lowest Channel / Full RB



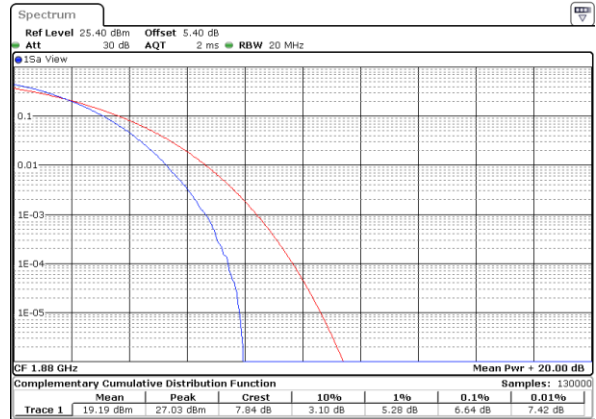
Date: 10.OCT.2019 00:21:04

Middle Channel / 1RB



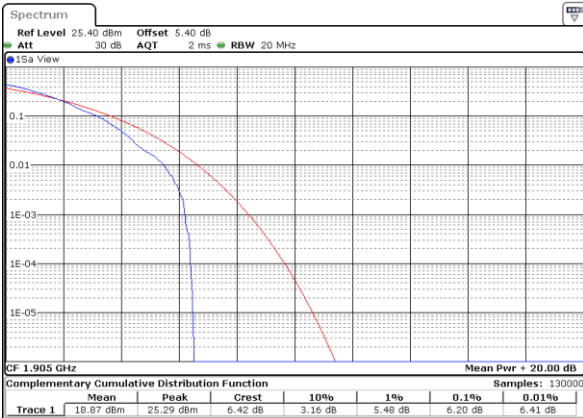
Date: 10.OCT.2019 00:21:56

Middle Channel / Full RB



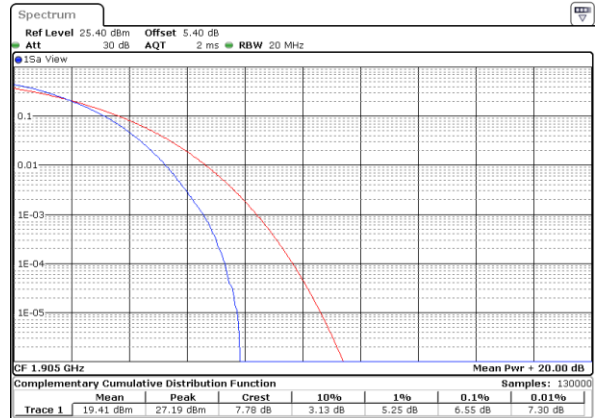
Date: 10.OCT.2019 00:21:47

Highest Channel / 1RB



Date: 10.OCT.2019 00:22:40

Highest Channel / Full RB



Date: 10.OCT.2019 00:22:29



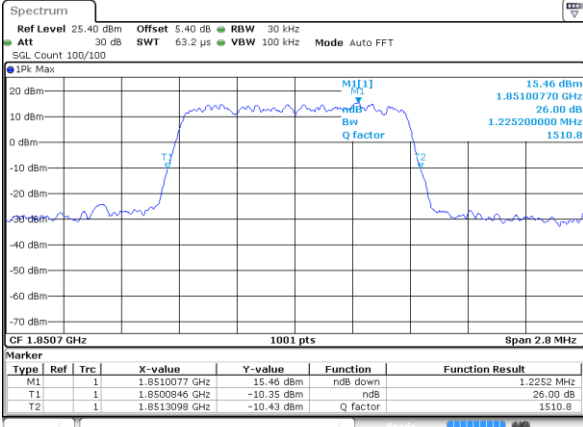
26dB Bandwidth

Mode	LTE Band 25 : 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	1.2254	1.2364	2.979	3.0569	4.935	4.825	9.65	9.79	14.446	14.116	20.22	20.1
Middle CH	1.228	1.2308	3.039	3.0689	4.915	4.905	9.77	9.63	14.206	14.386	20.3	20.14
Highest CH	1.2196	1.2196	3.045	3.033	4.915	4.885	9.81	9.69	14.236	14.296	20.1	20.1
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.2168		3.009		4.925		9.97		14.326		20.1	
Middle CH	1.2308		3.009		4.925		9.79		14.146		20.22	
Highest CH	1.2364		3.003		4.855		9.85		14.386		20.22	



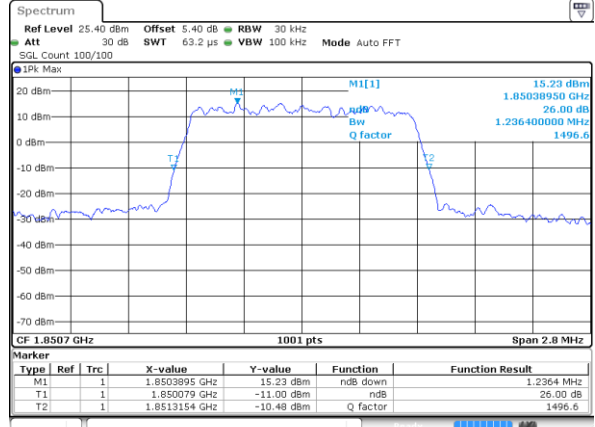
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



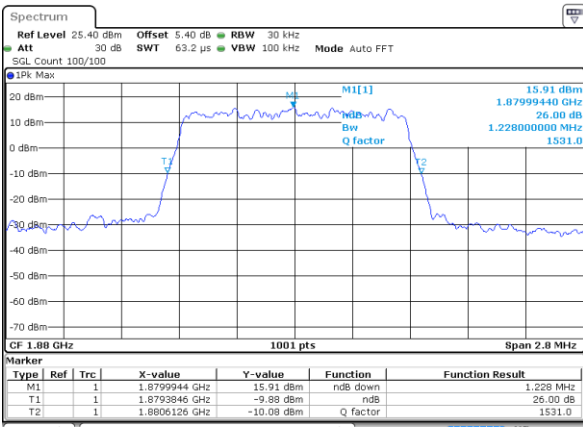
Date: 9.OCT.2019 21:47:29

Lowest Channel / 1.4MHz / 16QAM



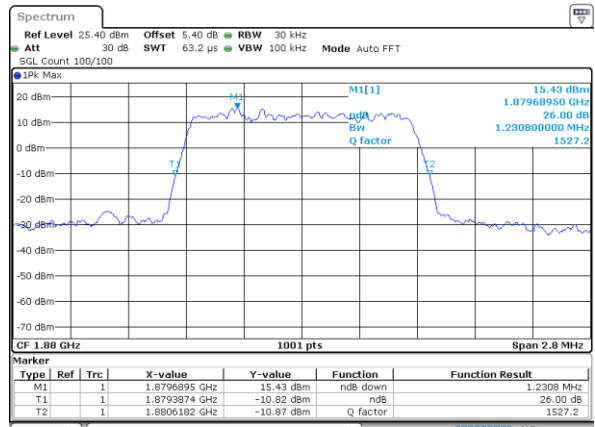
Date: 9.OCT.2019 21:47:49

Middle Channel / 1.4MHz / QPSK



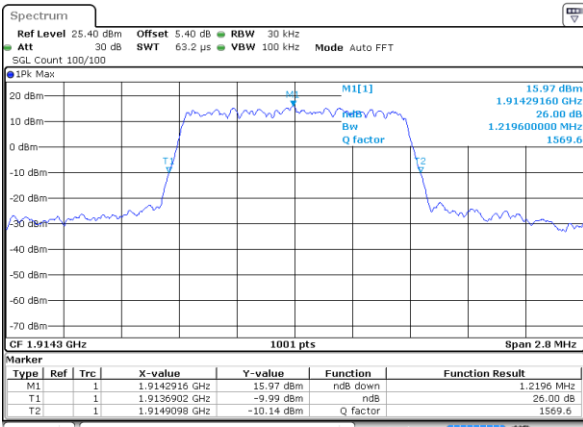
Date: 9.OCT.2019 21:48:30

Middle Channel / 1.4MHz / 16QAM



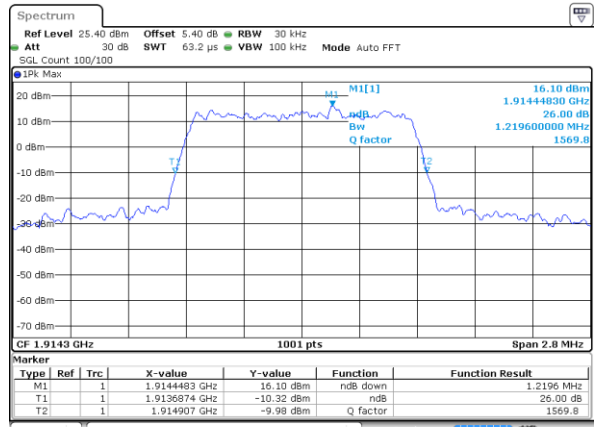
Date: 9.OCT.2019 21:48:50

Highest Channel / 1.4MHz / QPSK



Date: 9.OCT.2019 21:49:30

Highest Channel / 1.4MHz / 16QAM

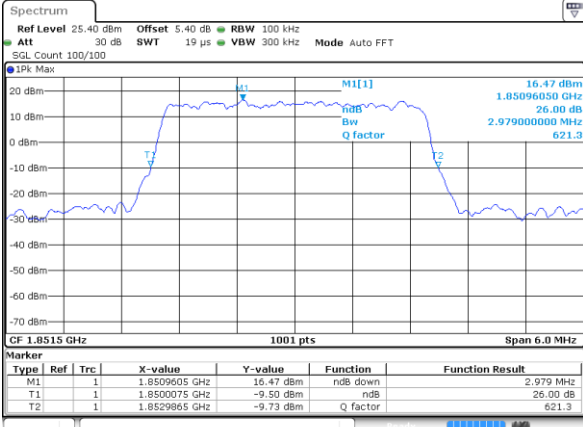


Date: 9.OCT.2019 21:49:50



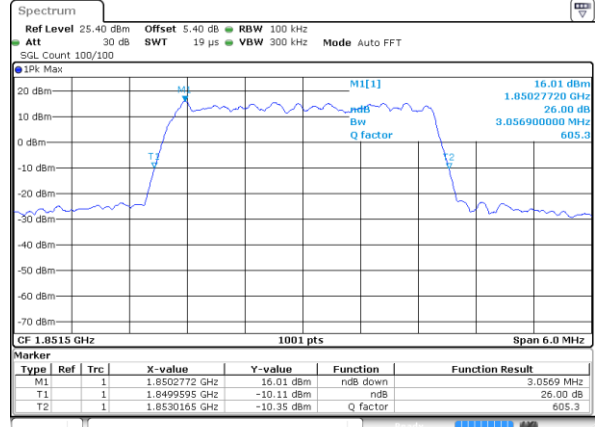
LTE Band 25

Lowest Channel / 3MHz / QPSK



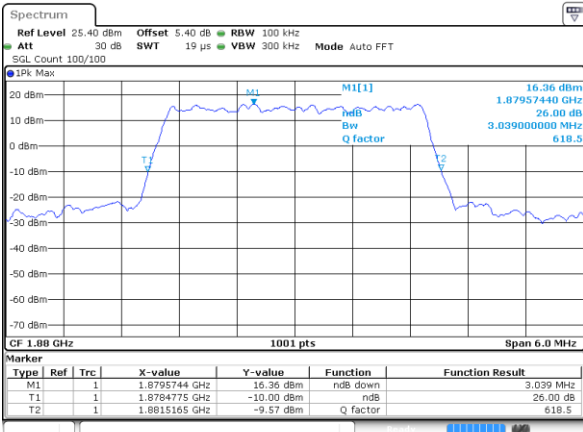
Date: 9.OCT.2019 22:12:15

Lowest Channel / 3MHz / 16QAM



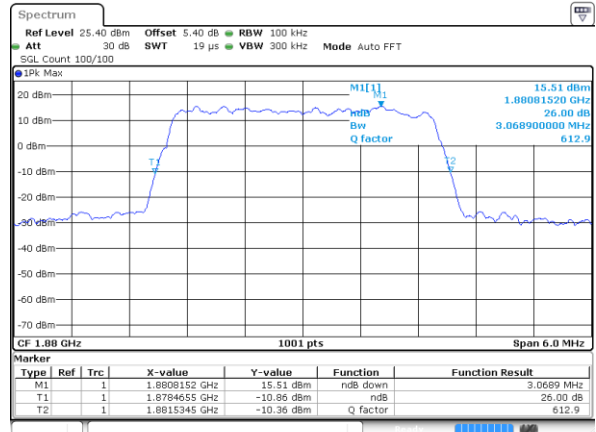
Date: 9.OCT.2019 22:12:35

Middle Channel / 3MHz / QPSK



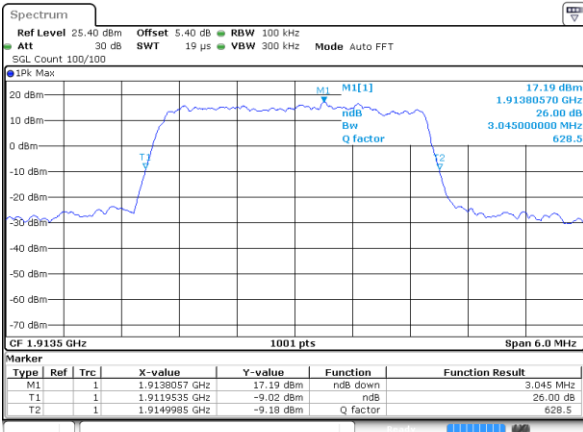
Date: 9.OCT.2019 22:13:16

Middle Channel / 3MHz / 16QAM



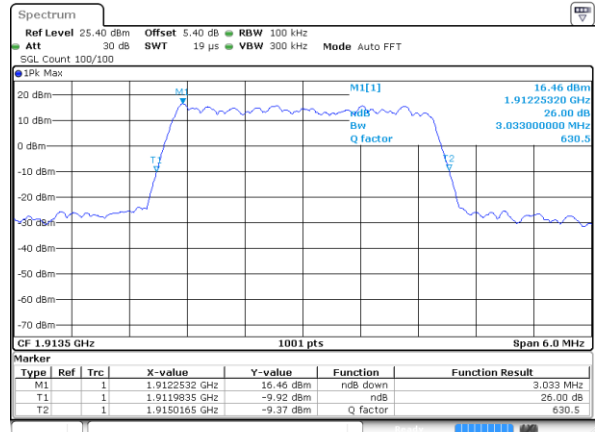
Date: 9.OCT.2019 22:13:36

Highest Channel / 3MHz / QPSK



Date: 9.OCT.2019 22:14:16

Highest Channel / 3MHz / 16QAM

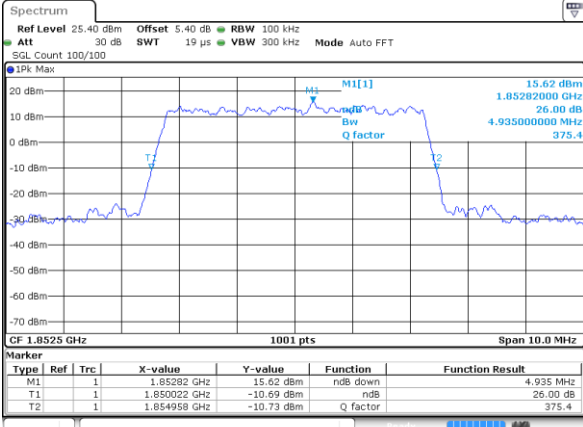


Date: 9.OCT.2019 22:14:36



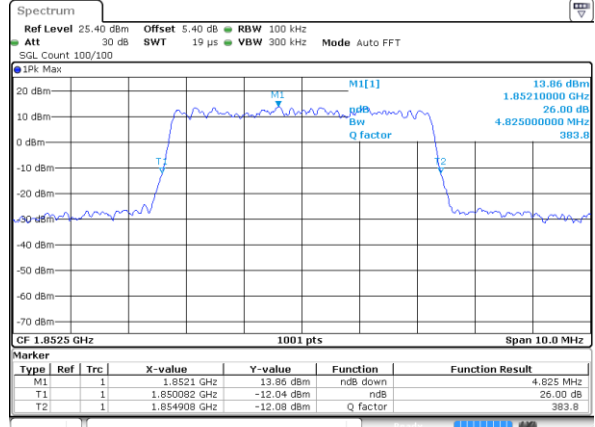
LTE Band 25

Lowest Channel / 5MHz / QPSK



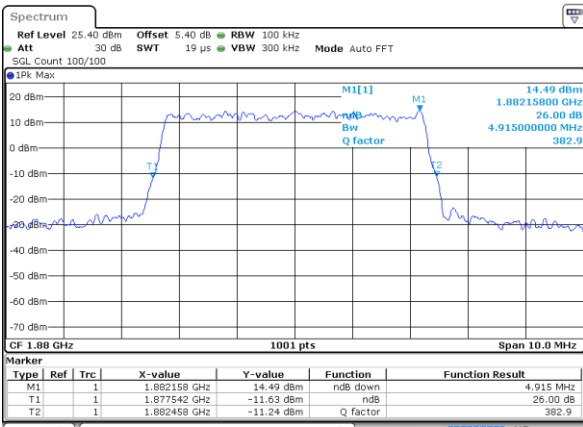
Date: 9.OCT.2019 22:37:01

Lowest Channel / 5MHz / 16QAM



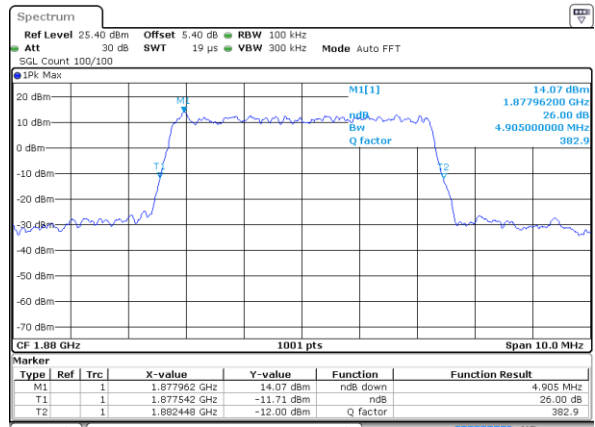
Date: 9.OCT.2019 22:37:21

Middle Channel / 5MHz / QPSK



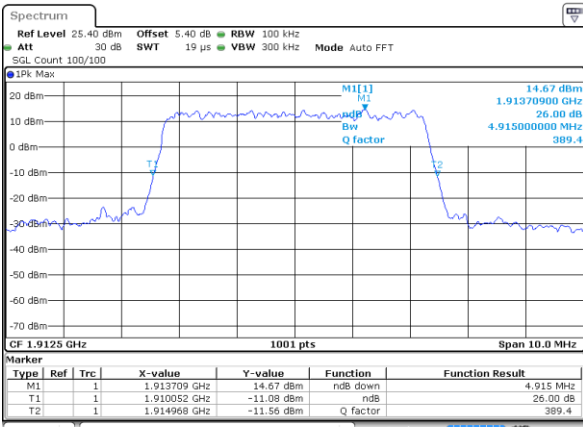
Date: 9.OCT.2019 22:50:56

Middle Channel / 5MHz / 16QAM



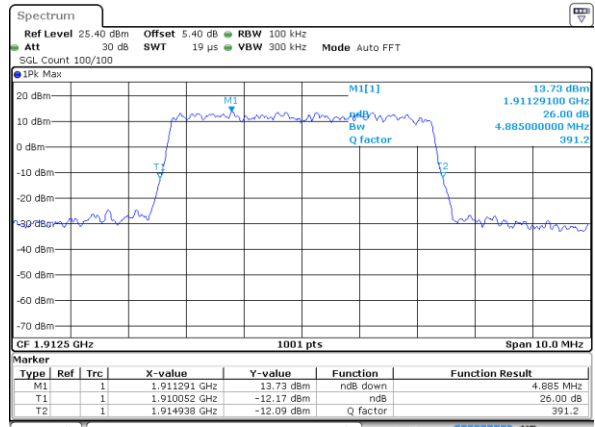
Date: 9.OCT.2019 22:50:36

Highest Channel / 5MHz / QPSK



Date: 9.OCT.2019 22:51:16

Highest Channel / 5MHz / 16QAM

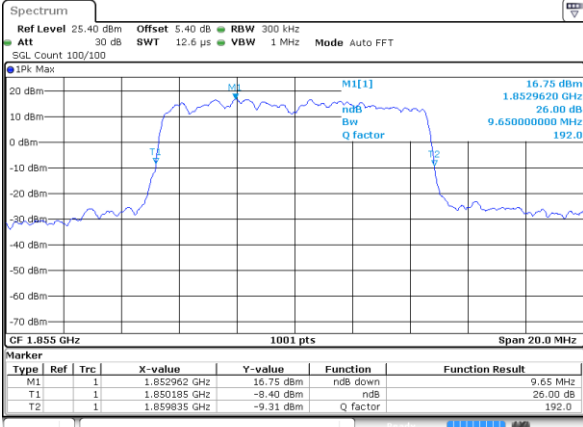


Date: 9.OCT.2019 22:51:36



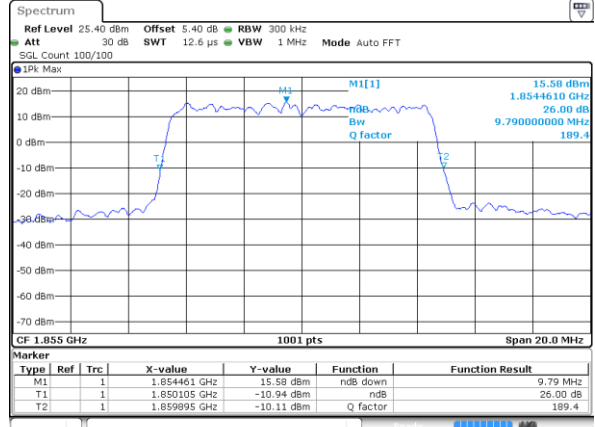
LTE Band 25

Lowest Channel / 10MHz / QPSK



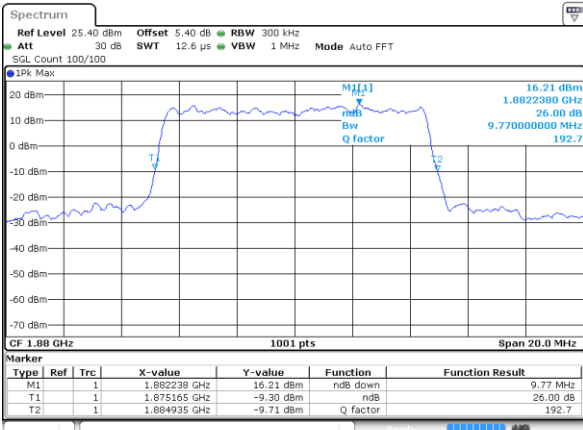
Date: 9.OCT.2019 23:01:47

Lowest Channel / 10MHz / 16QAM



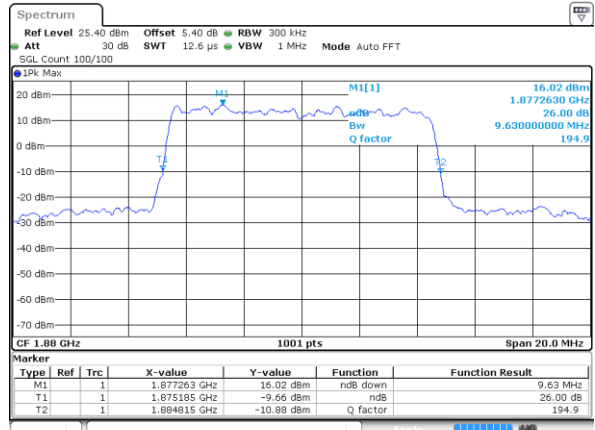
Date: 9.OCT.2019 23:02:07

Middle Channel / 10MHz / QPSK



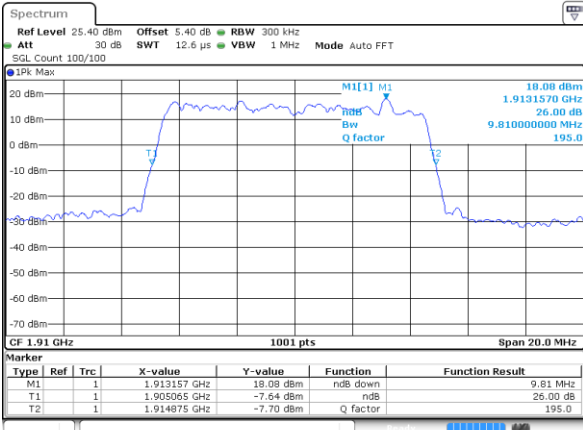
Date: 9.OCT.2019 23:15:42

Middle Channel / 10MHz / 16QAM



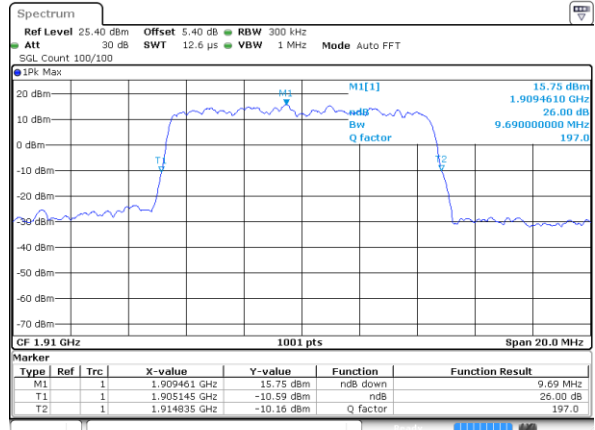
Date: 9.OCT.2019 23:15:22

Highest Channel / 10MHz / QPSK



Date: 9.OCT.2019 23:16:02

Highest Channel / 10MHz / 16QAM

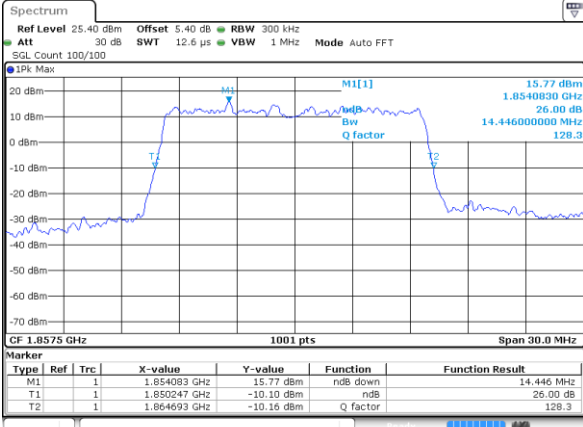


Date: 9.OCT.2019 23:16:22



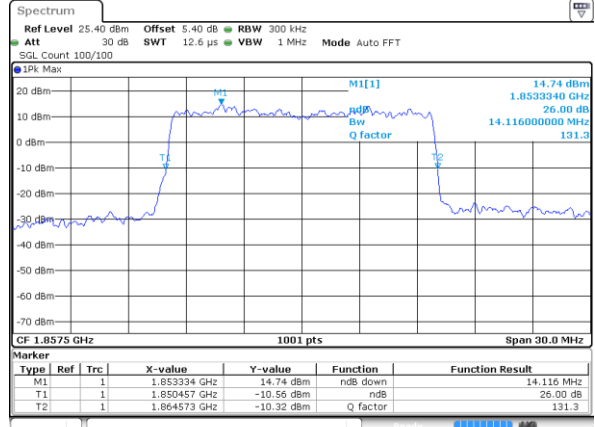
LTE Band 25

Lowest Channel / 15MHz / QPSK



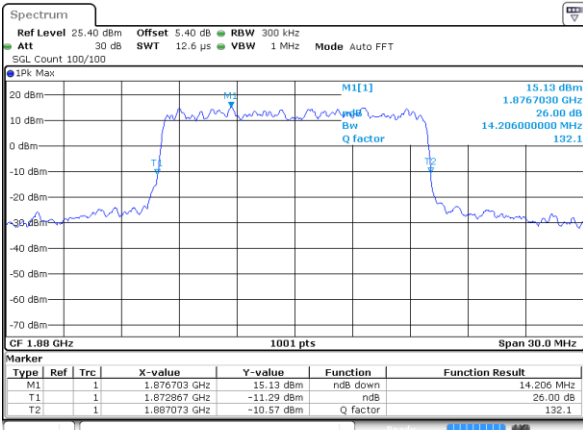
Date: 9 OCT 2019 23:26:33

Lowest Channel / 15MHz / 16QAM



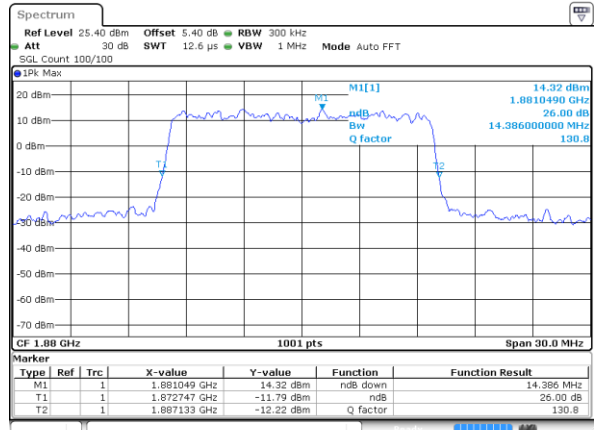
Date: 9 OCT 2019 23:26:53

Middle Channel / 15MHz / QPSK



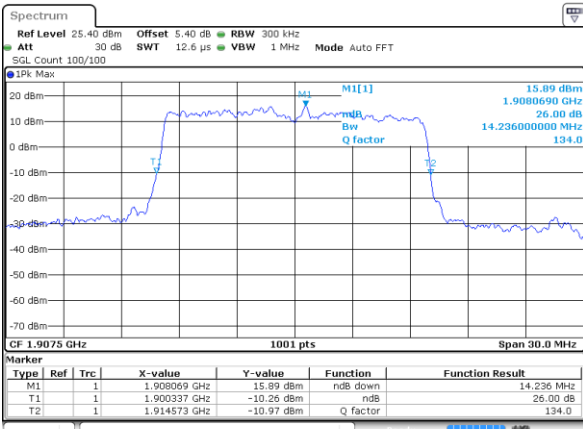
Date: 9 OCT 2019 23:40:28

Middle Channel / 15MHz / 16QAM



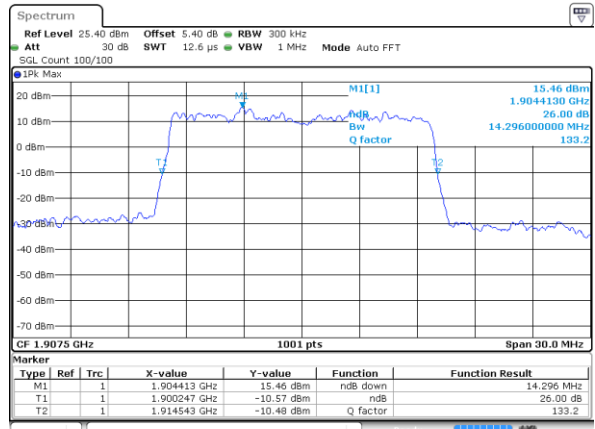
Date: 9 OCT 2019 23:40:08

Highest Channel / 15MHz / QPSK



Date: 9 OCT 2019 23:40:48

Highest Channel / 15MHz / 16QAM

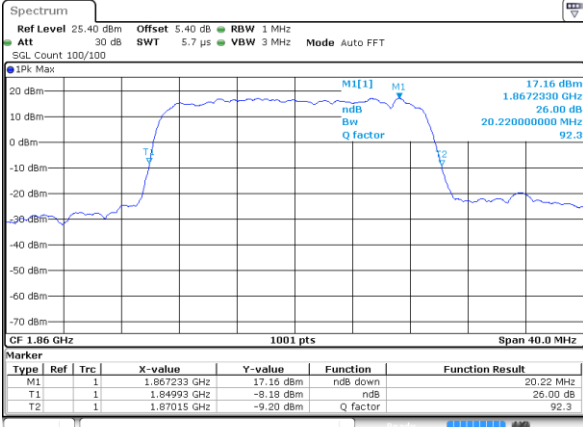


Date: 9 OCT 2019 23:41:08



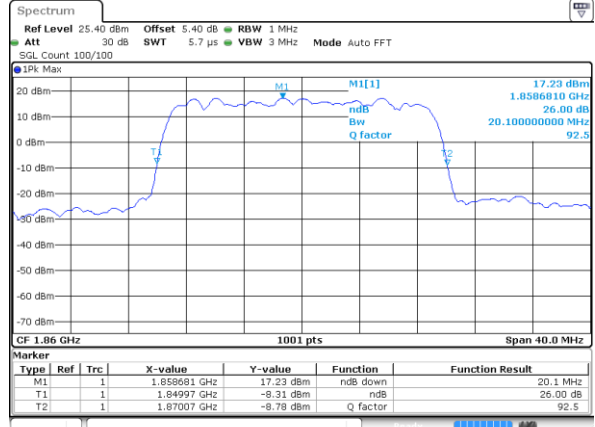
LTE Band 25

Lowest Channel / 20MHz / QPSK



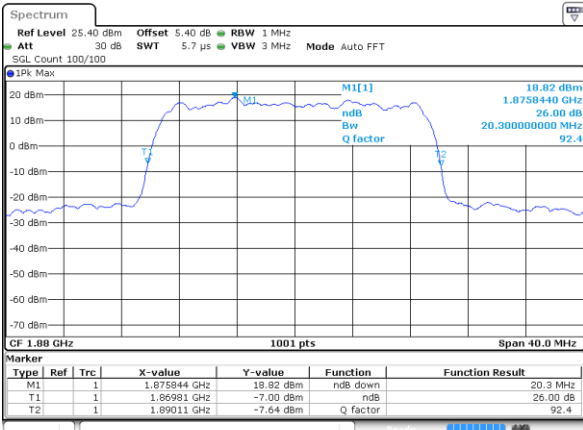
Date: 9.OCT.2019 23:51:19

Lowest Channel / 20MHz / 16QAM



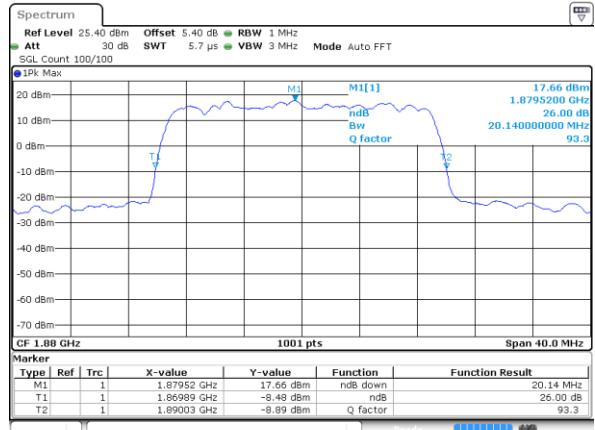
Date: 9.OCT.2019 23:51:39

Middle Channel / 20MHz / QPSK



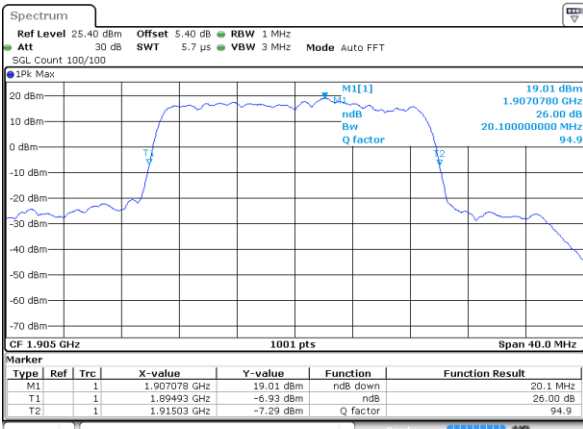
Date: 10.OCT.2019 00:05:14

Middle Channel / 20MHz / 16QAM



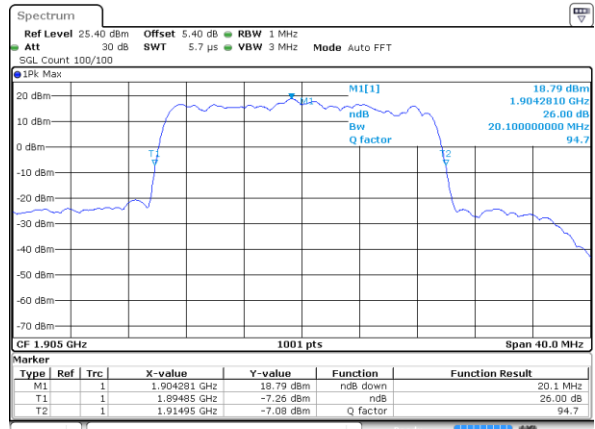
Date: 10.OCT.2019 00:04:54

Highest Channel / 20MHz / QPSK



Date: 10.OCT.2019 00:05:34

Highest Channel / 20MHz / 16QAM

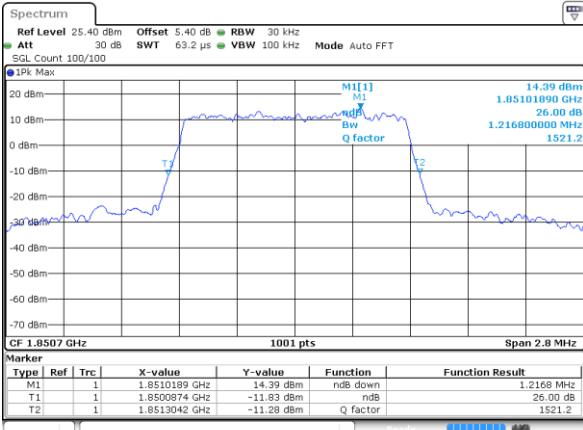


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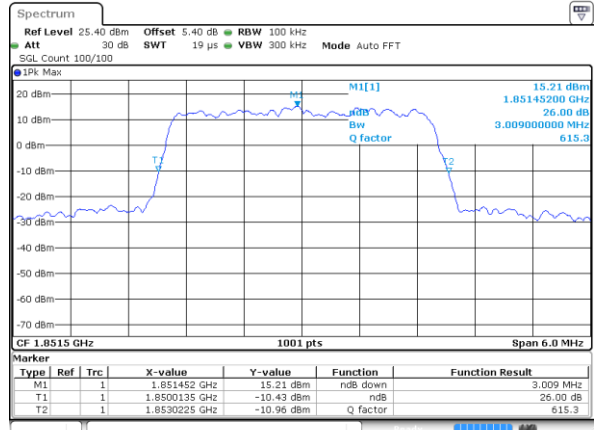
LTE Band 25

Lowest Channel / 1.4MHz / 64QAM



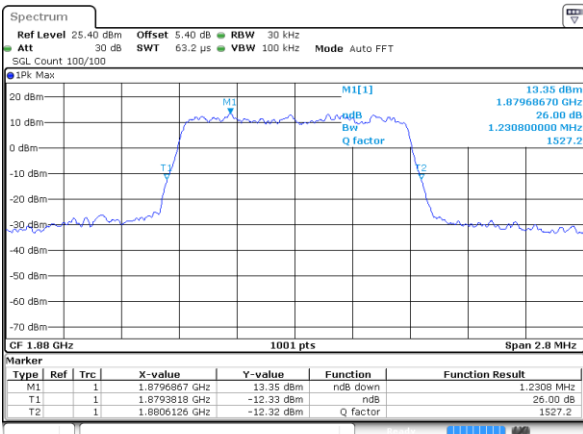
Date: 9.OCT.2019 21:48:09

Lowest Channel / 3MHz / 64QAM



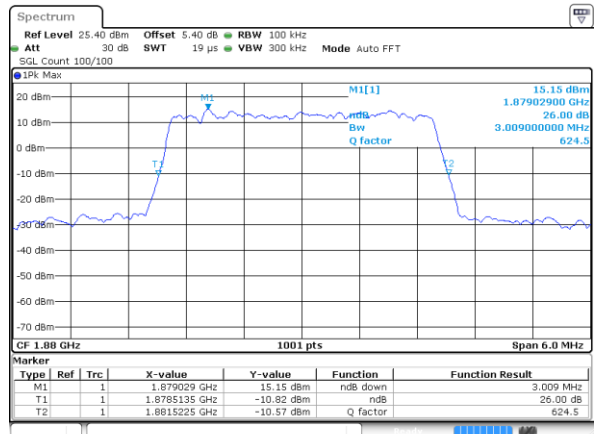
Date: 9.OCT.2019 22:12:55

Middle Channel / 1.4MHz / 64QAM



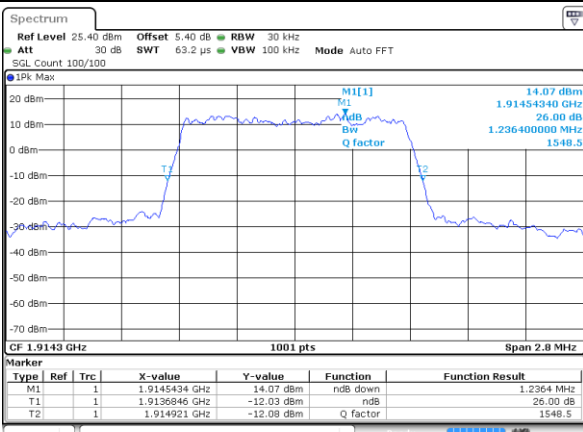
Date: 9.OCT.2019 21:49:10

Middle Channel / 3MHz / 64QAM



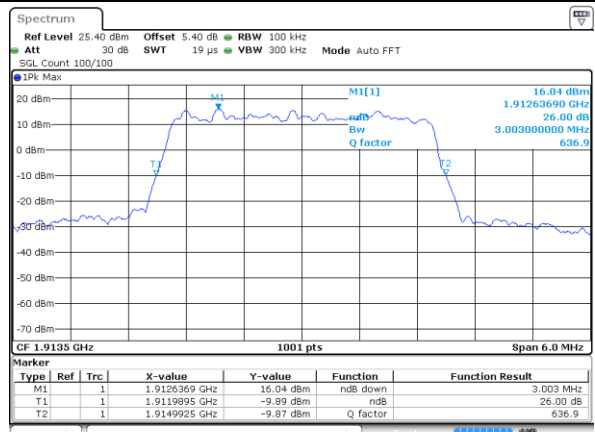
Date: 9.OCT.2019 22:13:56

Highest Channel / 1.4MHz / 64QAM



Date: 9.OCT.2019 21:50:10

Highest Channel / 3MHz / 64QAM

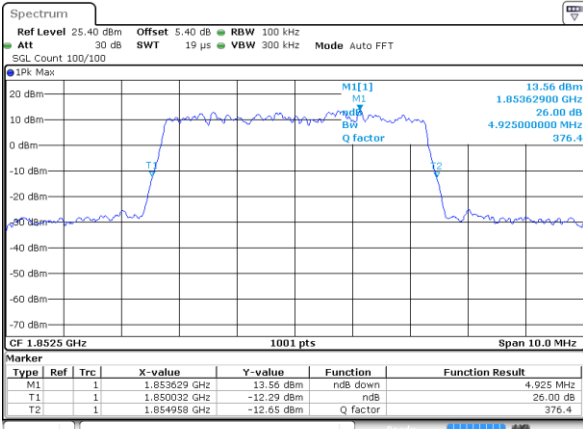


Date: 9.OCT.2019 22:14:56



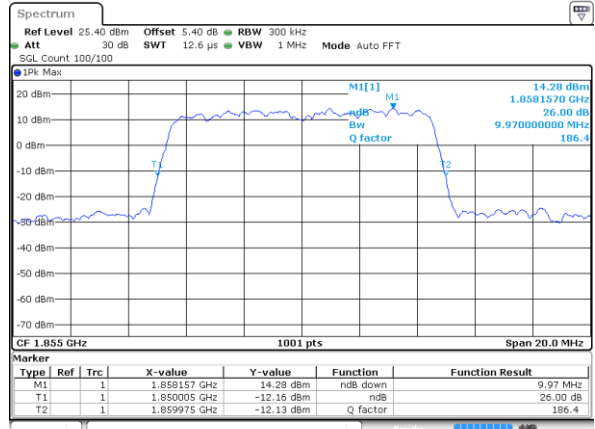
LTE Band 25

Lowest Channel / 5MHz / 64QAM



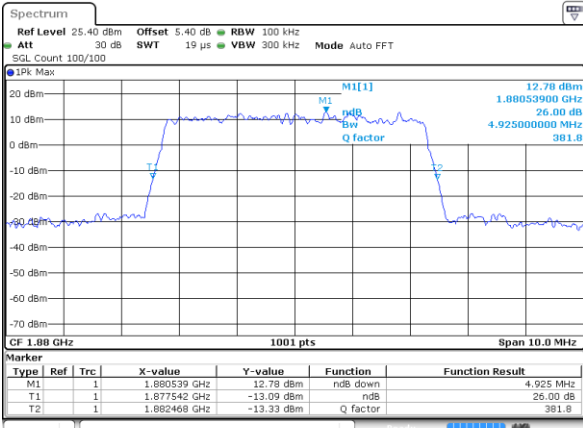
Date: 9.OCT.2019 22:37:42

Lowest Channel / 10MHz / 64QAM



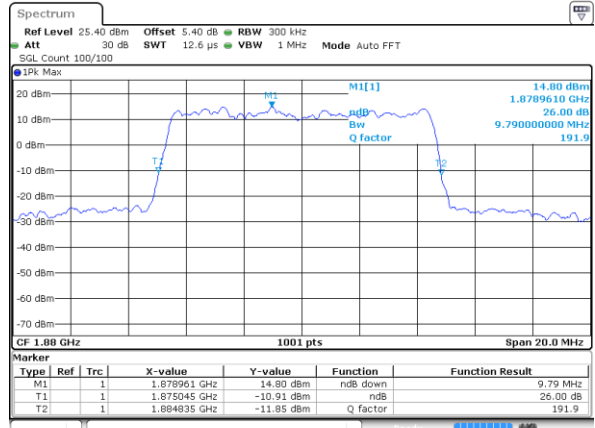
Date: 9.OCT.2019 23:02:27

Middle Channel / 5MHz / 64QAM



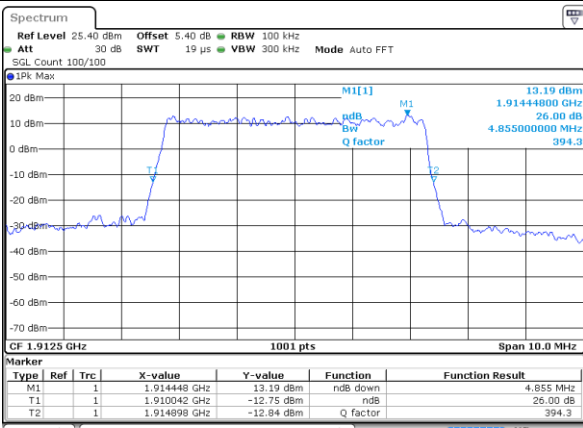
Date: 9.OCT.2019 22:50:16

Middle Channel / 10MHz / 64QAM



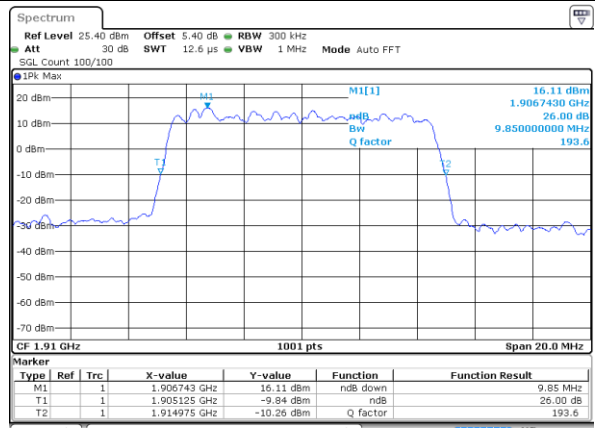
Date: 9.OCT.2019 23:15:02

Highest Channel / 5MHz / 64QAM



Date: 9.OCT.2019 22:51:57

Highest Channel / 10MHz / 64QAM

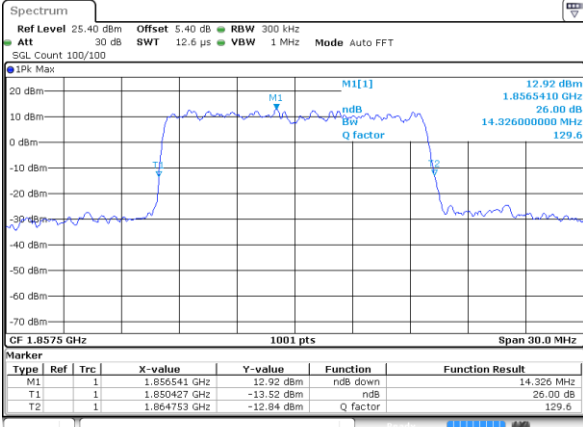


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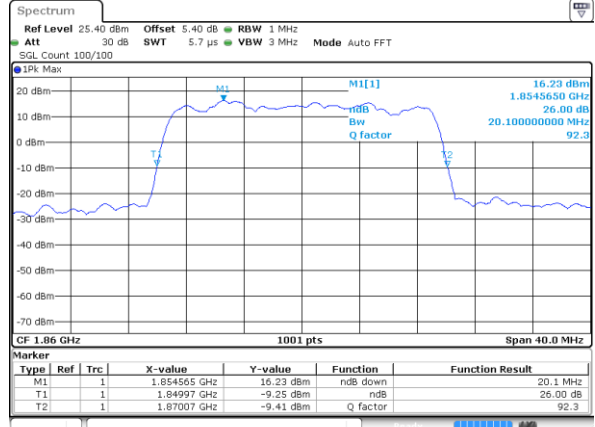
LTE Band 25

Lowest Channel / 15MHz / 64QAM



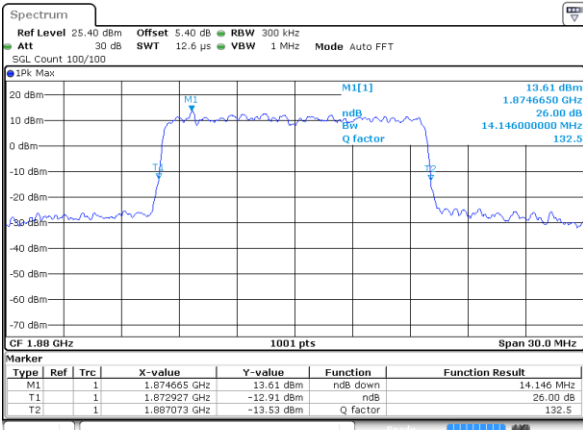
Date: 9 OCT 2019 23:27:13

Lowest Channel / 20MHz / 64QAM



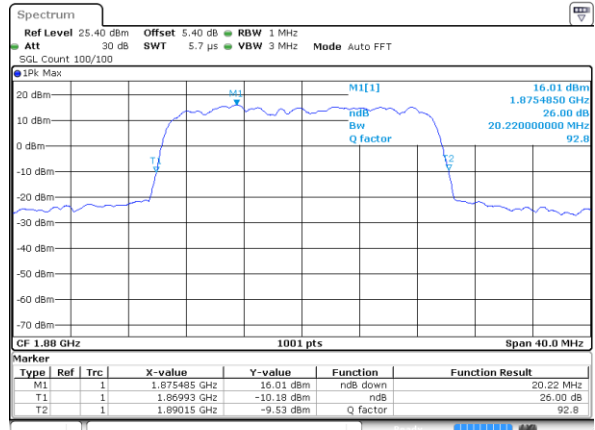
Date: 9 OCT 2019 23:52:00

Middle Channel / 15MHz / 64QAM



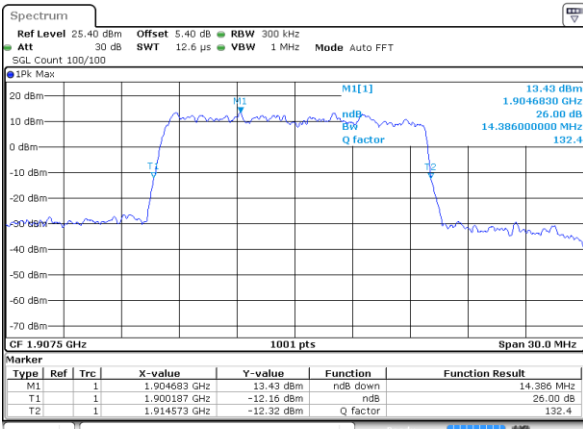
Date: 9 OCT 2019 23:39:48

Middle Channel / 20MHz / 64QAM



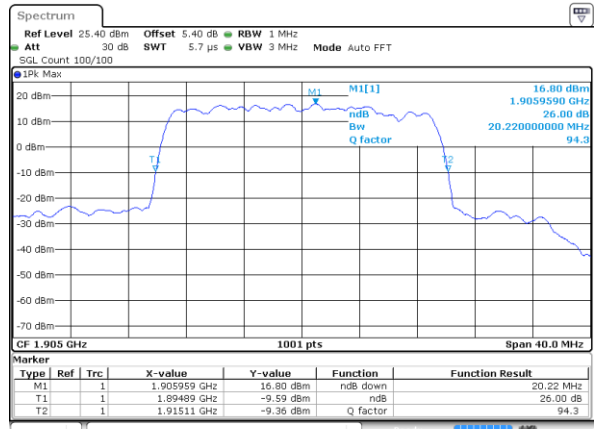
Date: 10 OCT 2019 00:04:34

Highest Channel / 15MHz / 64QAM



Date: 9 OCT 2019 23:41:29

Highest Channel / 20MHz / 64QAM



Date: 10 OCT 2019 00:06:14



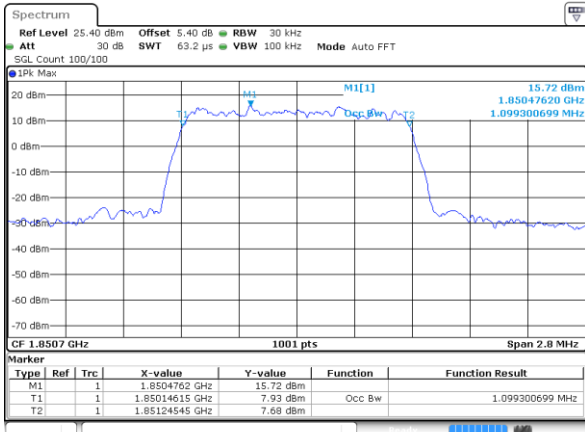
Occupied Bandwidth

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	1.10	2.74	2.71	4.48	4.49	9.05	8.99	13.40	13.46	18.22	18.42
Middle CH	1.09	1.09	2.73	2.71	4.51	4.49	9.05	9.01	13.37	13.46	18.34	18.42
Highest CH	1.09	1.09	2.73	2.70	4.49	4.49	9.05	9.01	13.43	13.49	18.30	18.26
Mode	LTE Band 25 : 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		9.05		13.43		18.34	
Middle CH	1.09		2.73		4.52		9.05		13.40		18.46	
Highest CH	1.09		2.73		4.51		8.99		13.34		18.26	

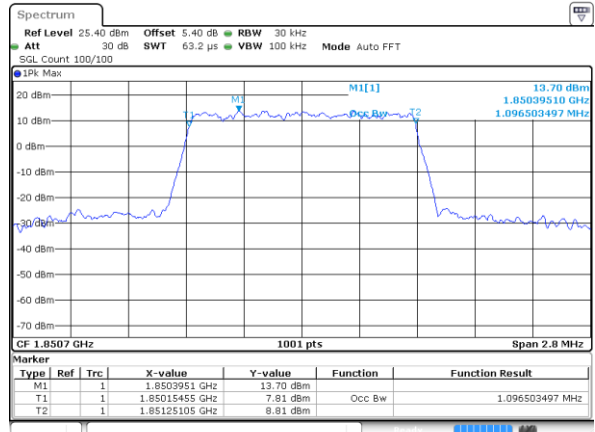


LTE Band 25

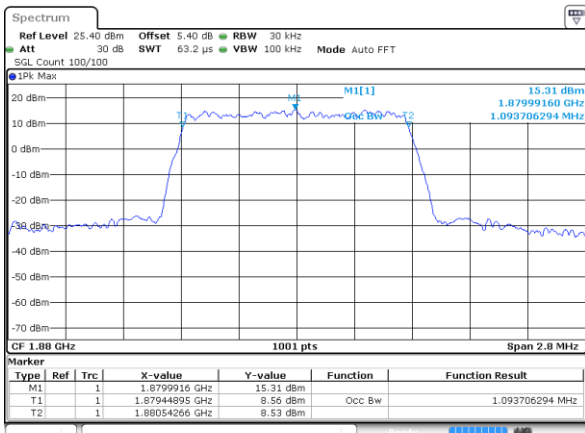
Lowest Channel / 1.4MHz / QPSK



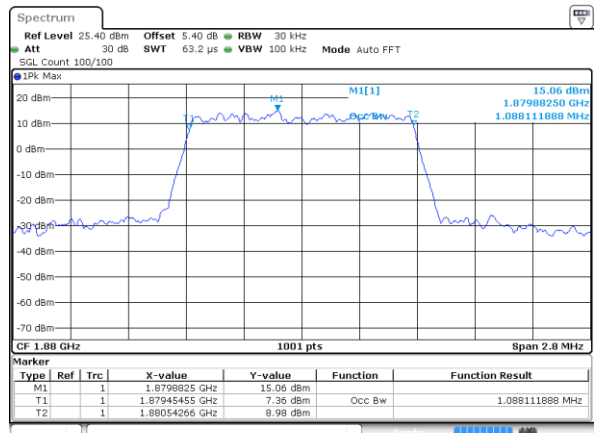
Lowest Channel / 1.4MHz / 16QAM



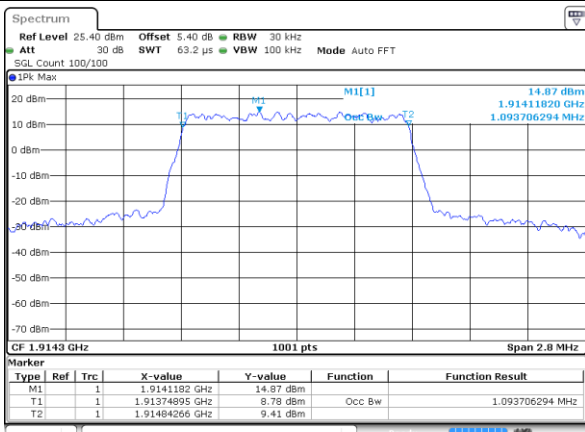
Middle Channel / 1.4MHz / QPSK



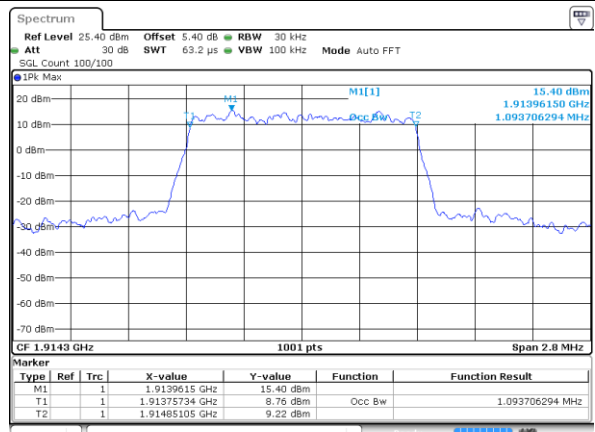
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



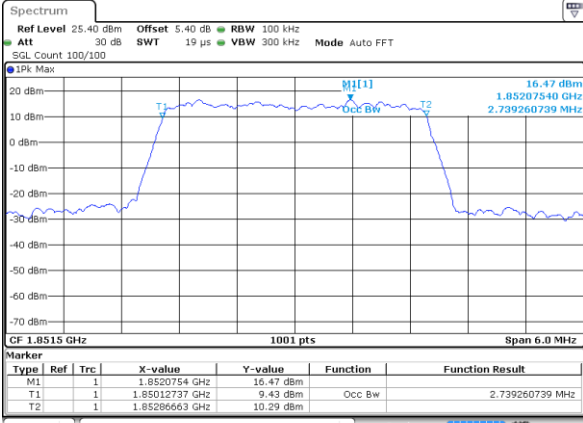
Highest Channel / 1.4MHz / 16QAM





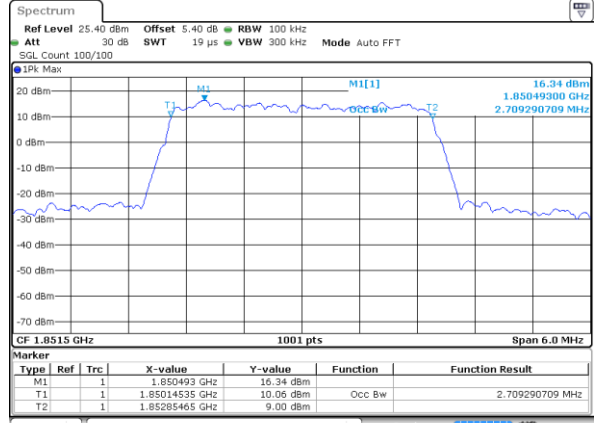
LTE Band 25

Lowest Channel / 3MHz / QPSK



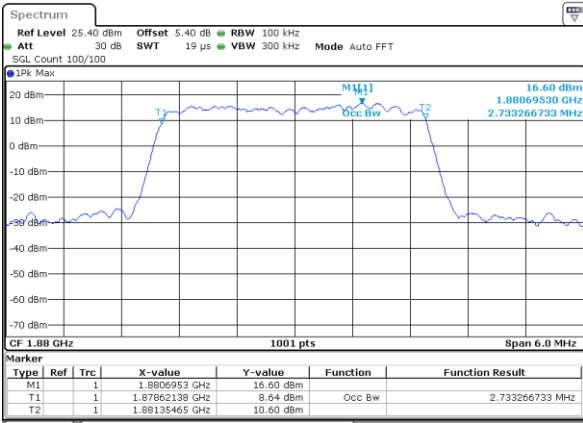
Date: 9.OCT.2019 22:12:05

Lowest Channel / 3MHz / 16QAM



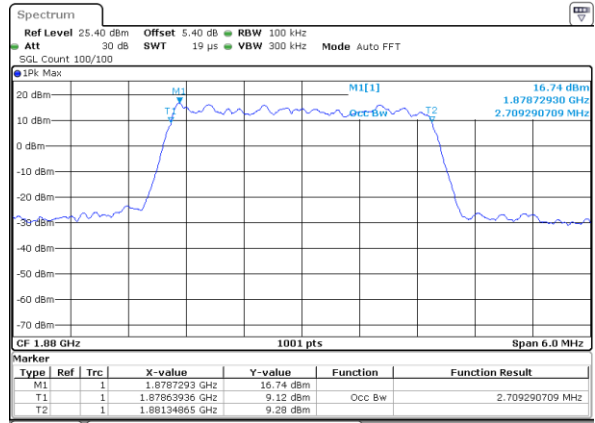
Date: 9.OCT.2019 22:12:25

Middle Channel / 3MHz / QPSK



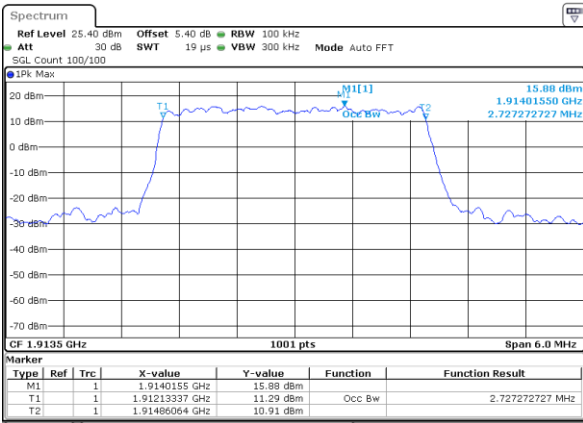
Date: 9.OCT.2019 22:13:05

Middle Channel / 3MHz / 16QAM



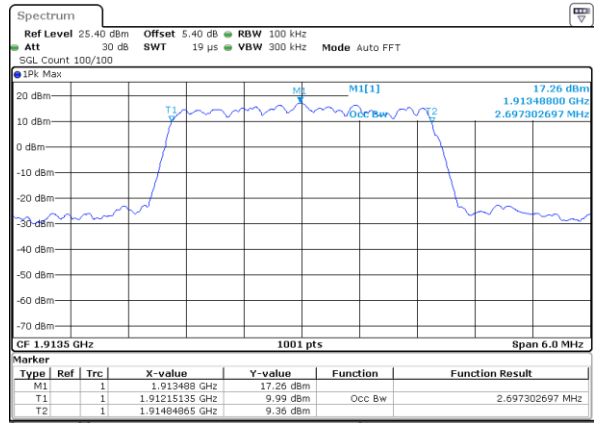
Date: 9.OCT.2019 22:13:25

Highest Channel / 3MHz / QPSK



Date: 9.OCT.2019 22:14:06

Highest Channel / 3MHz / 16QAM

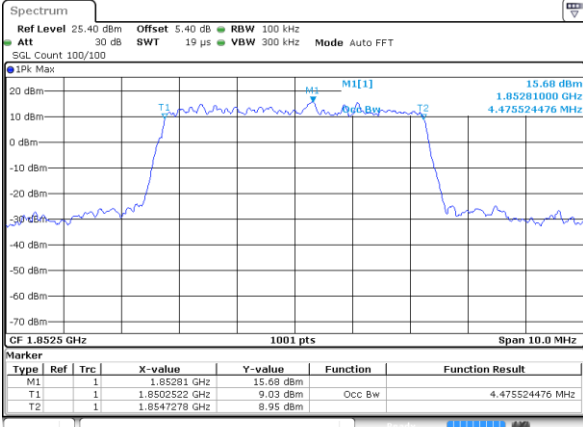


Date: 9.OCT.2019 22:14:26



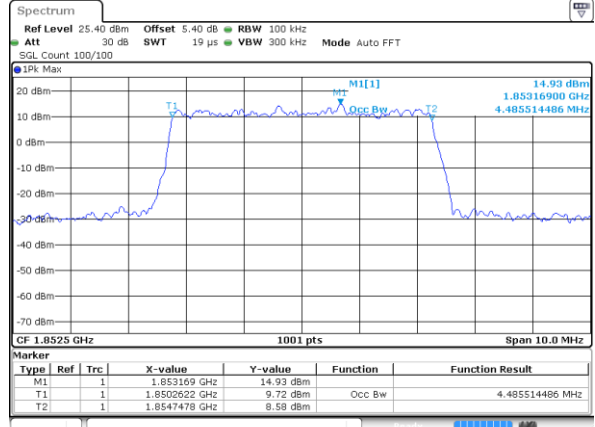
LTE Band 25

Lowest Channel / 5MHz / QPSK



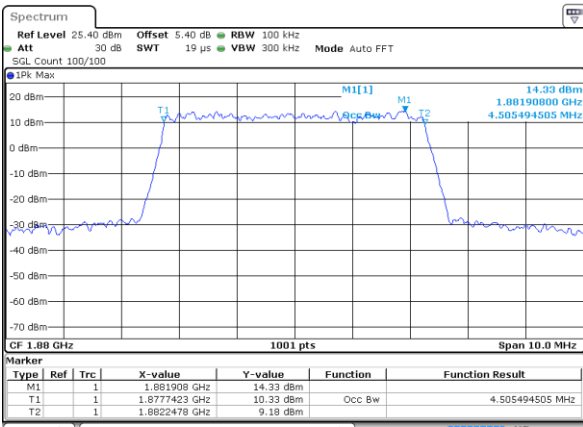
Date: 9.OCT.2019 22:36:51

Lowest Channel / 5MHz / 16QAM



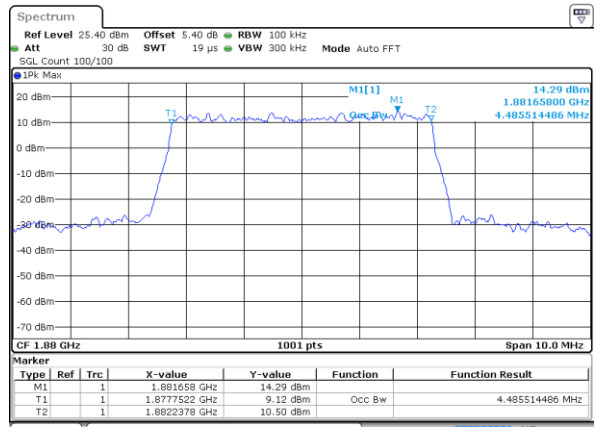
Date: 9.OCT.2019 22:37:11

Middle Channel / 5MHz / QPSK



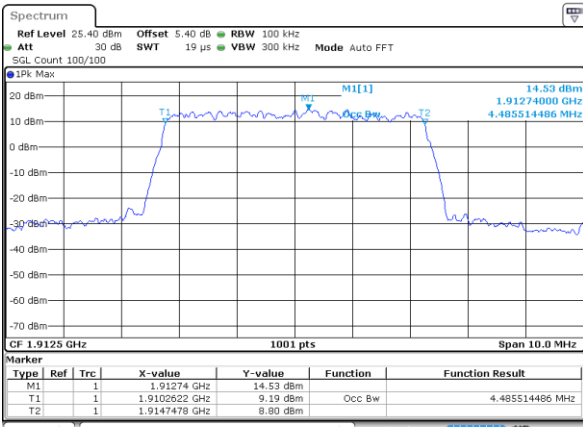
Date: 9.OCT.2019 22:50:46

Middle Channel / 5MHz / 16QAM



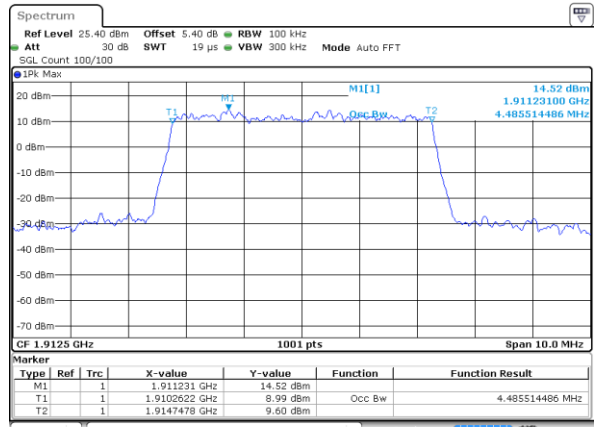
Date: 9.OCT.2019 22:50:26

Highest Channel / 5MHz / QPSK



Date: 9.OCT.2019 22:51:06

Highest Channel / 5MHz / 16QAM

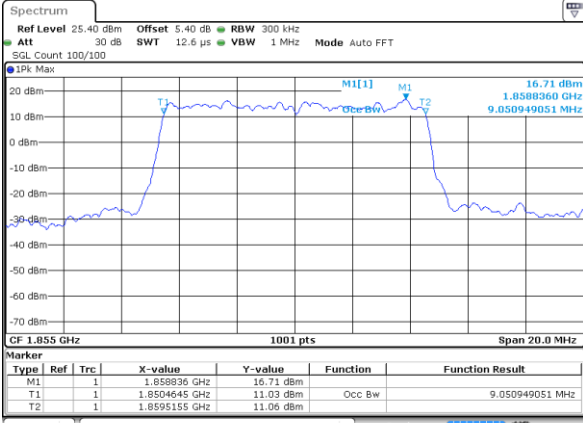


Date: 9.OCT.2019 22:51:26



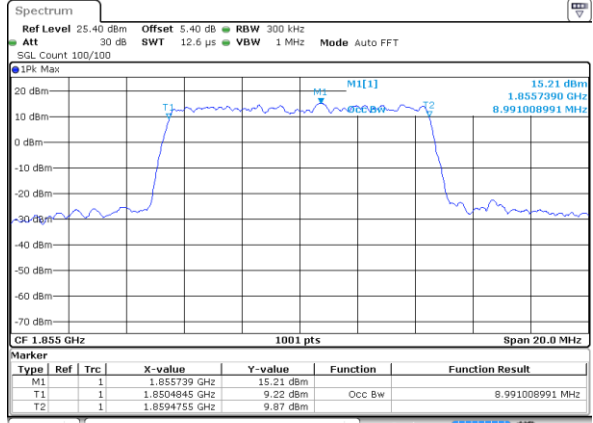
LTE Band 25

Lowest Channel / 10MHz / QPSK



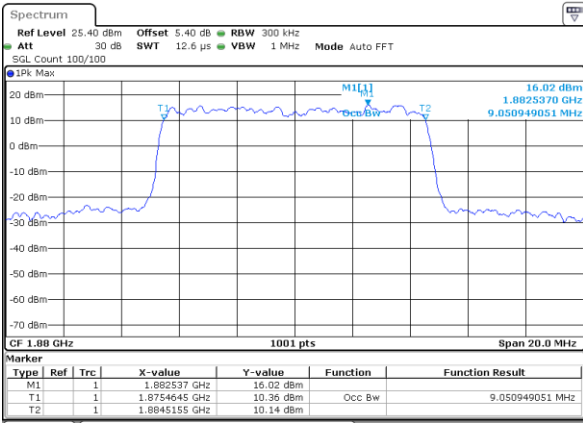
Date: 9.OCT.2019 23:01:37

Lowest Channel / 10MHz / 16QAM



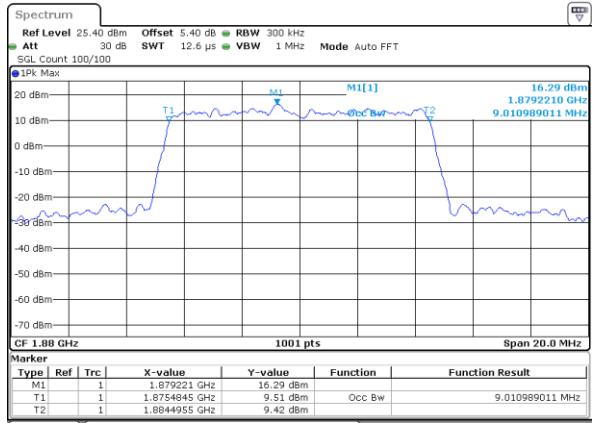
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Middle Channel / 10MHz / QPSK



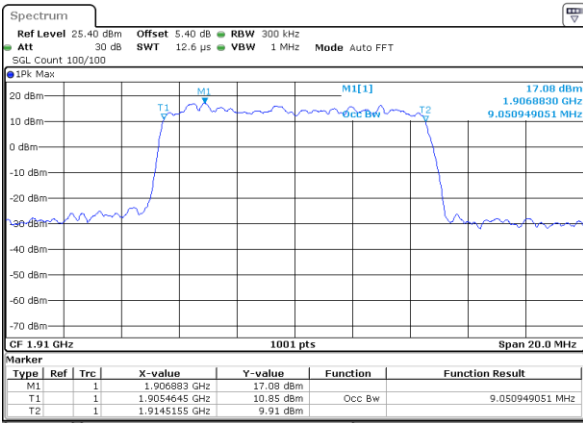
Date: 9.OCT.2019 23:15:32

Middle Channel / 10MHz / 16QAM



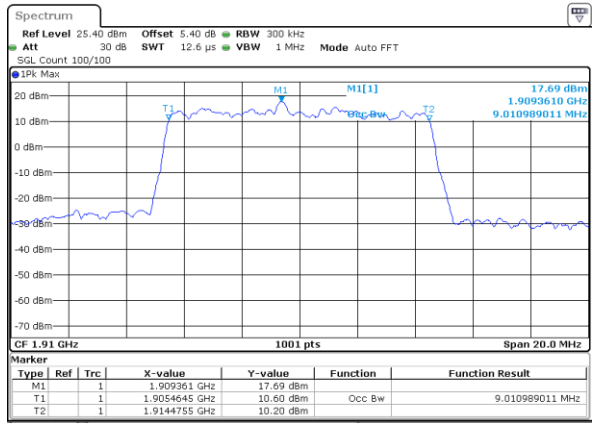
Date: 9.OCT.2019 23:15:12

Highest Channel / 10MHz / QPSK



Date: 9.OCT.2019 23:15:52

Highest Channel / 10MHz / 16QAM



Date: 9.OCT.2019 23:16:12