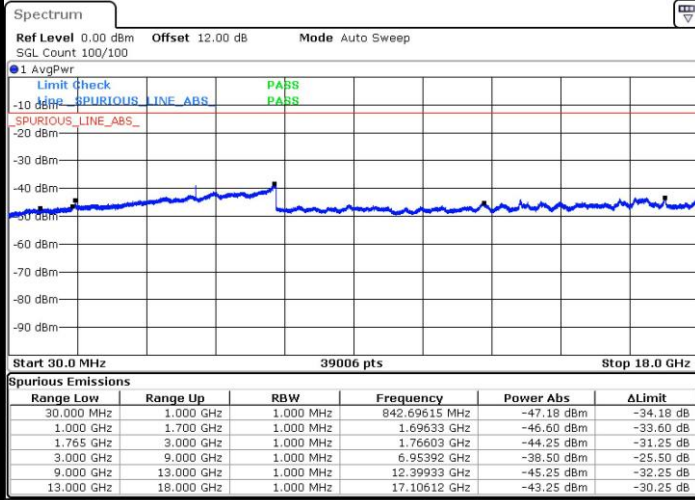




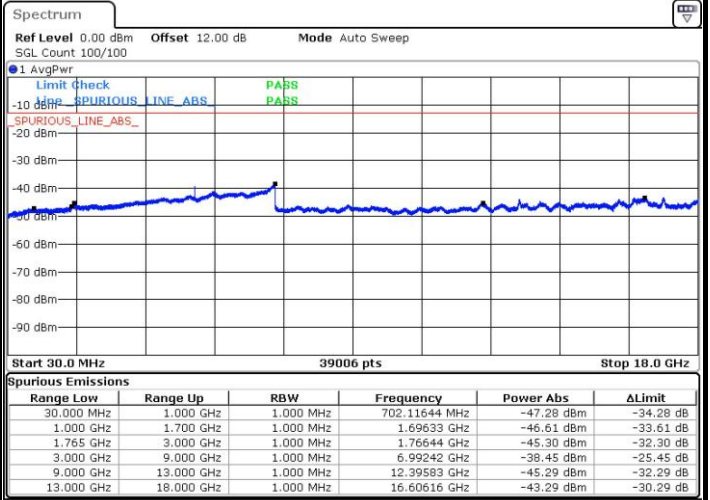
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 23.JUN.2019 17:36:46

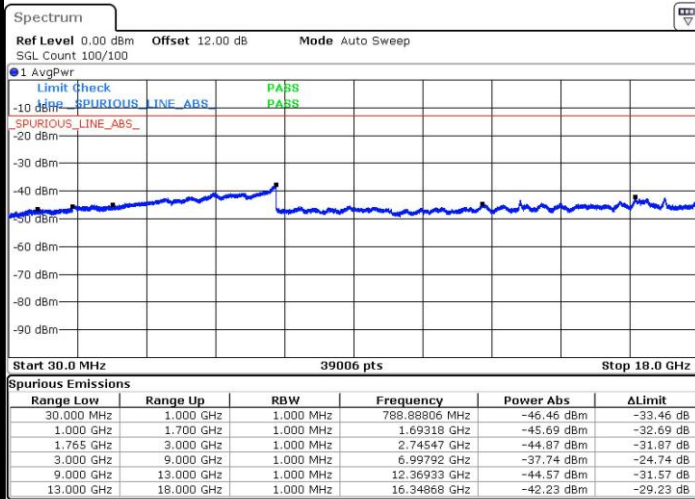
Highest Channel / 16QAM



Date: 23.JUN.2019 17:37:49

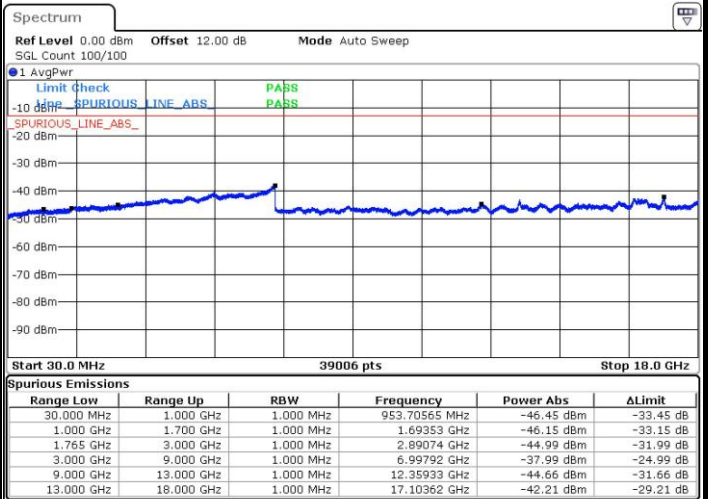
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 22.JUN.2019 01:46:33

Lowest Channel / 16QAM



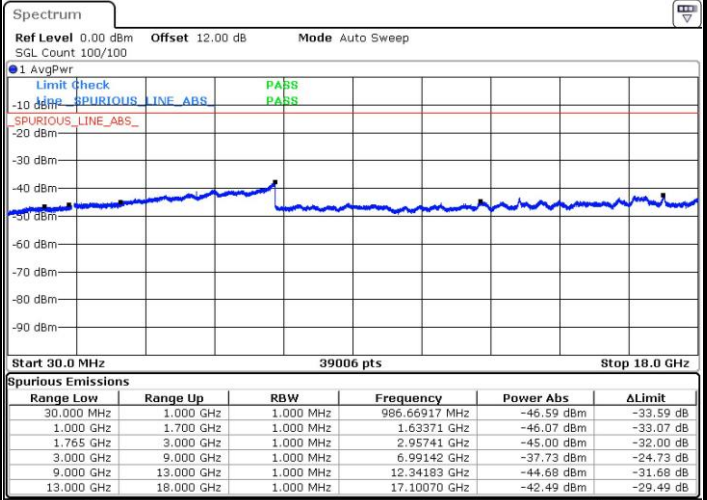
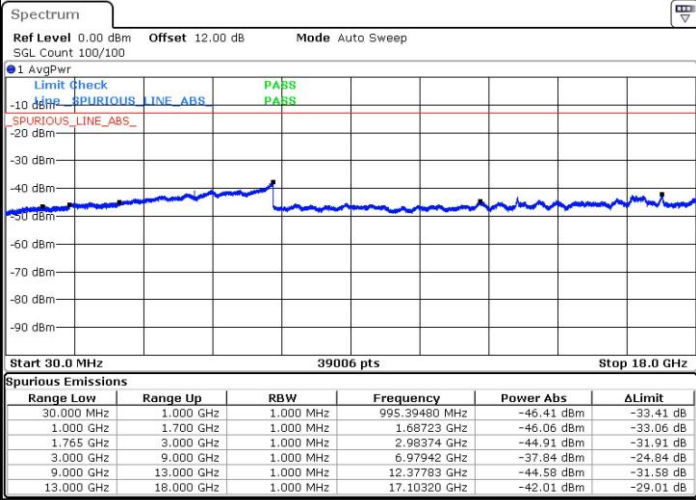
Date: 22.JUN.2019 01:47:35



LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

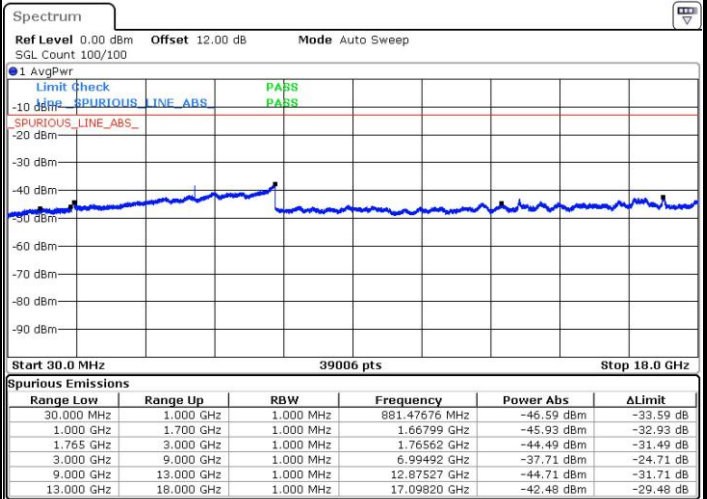
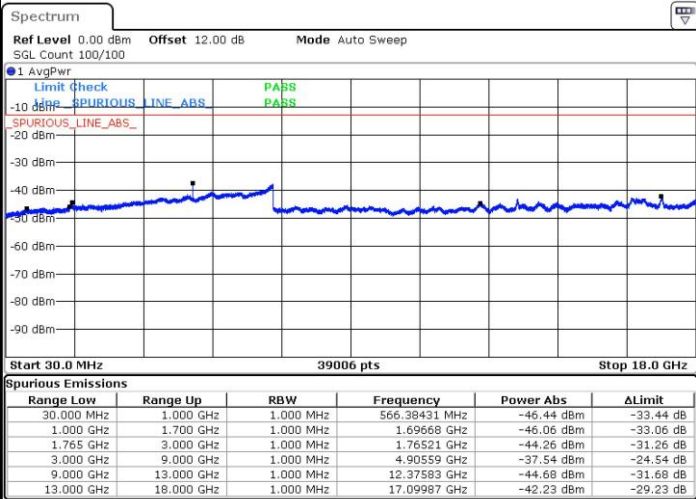


Date: 22 JUN 2019 01:49:22

Date: 22 JUN 2019 01:50:23

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 22 JUN 2019 01:55:46

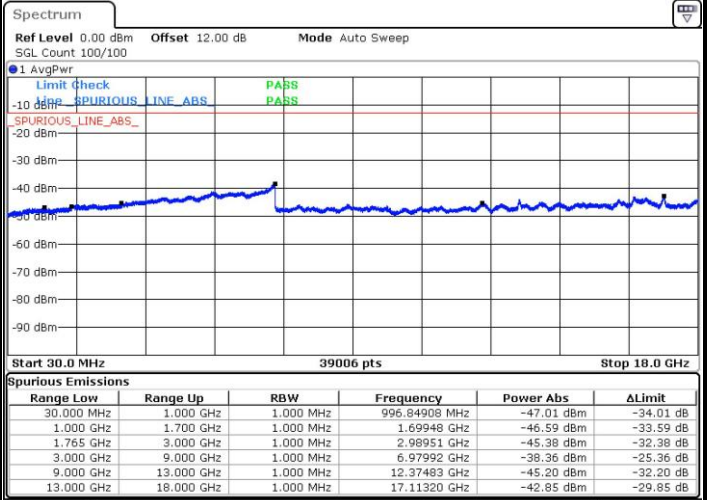
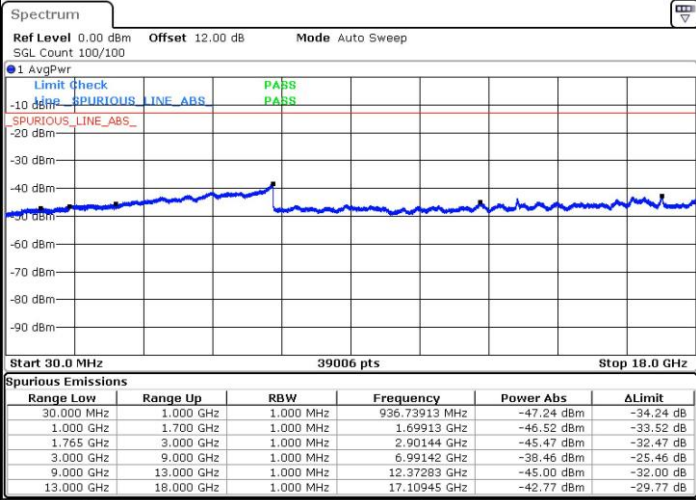
Date: 22 JUN 2019 01:56:47



LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

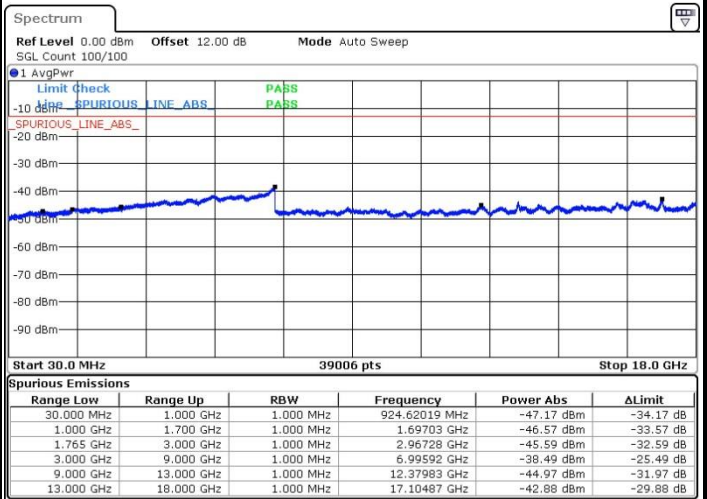
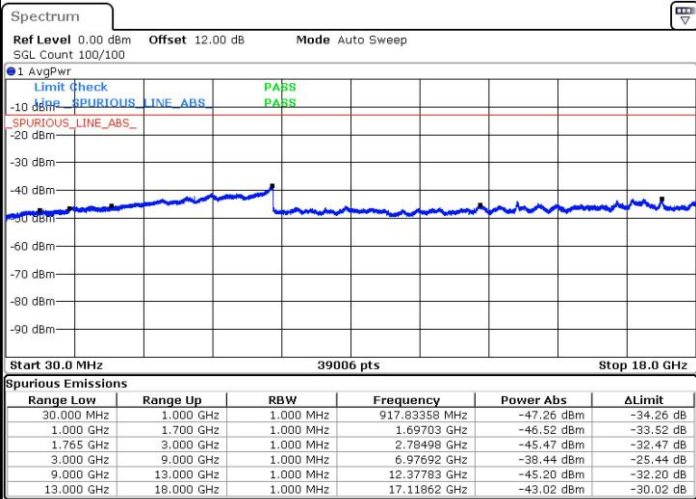


Date: 23.JUN.2019 16:21:09

Date: 23.JUN.2019 16:22:12

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 23.JUN.2019 16:24:03

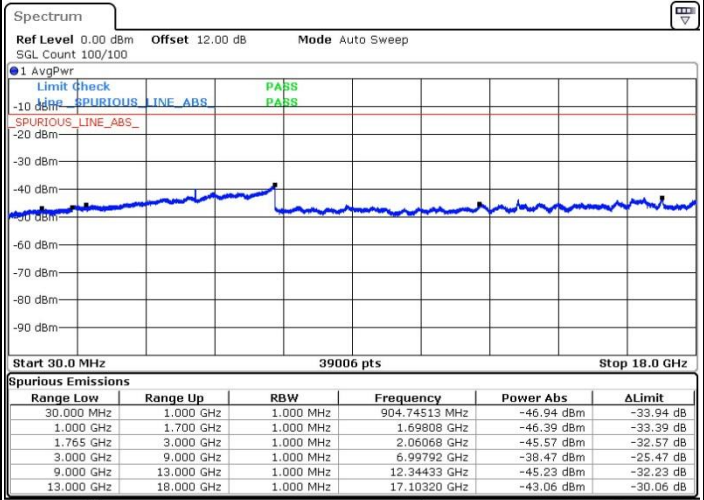
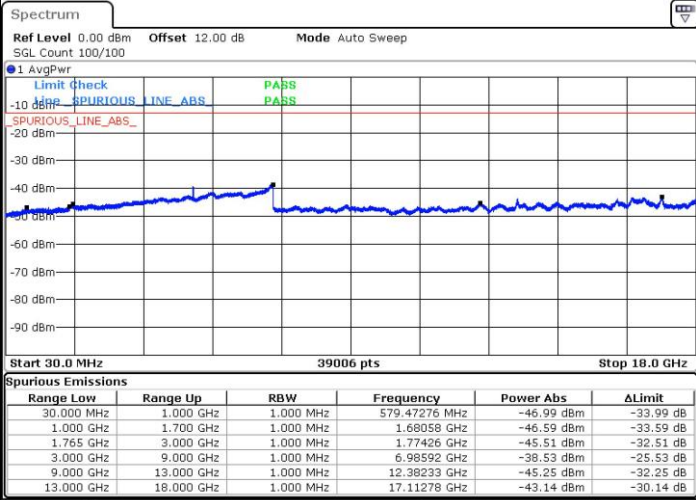
Date: 23.JUN.2019 16:25:06



LTE Band 4 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



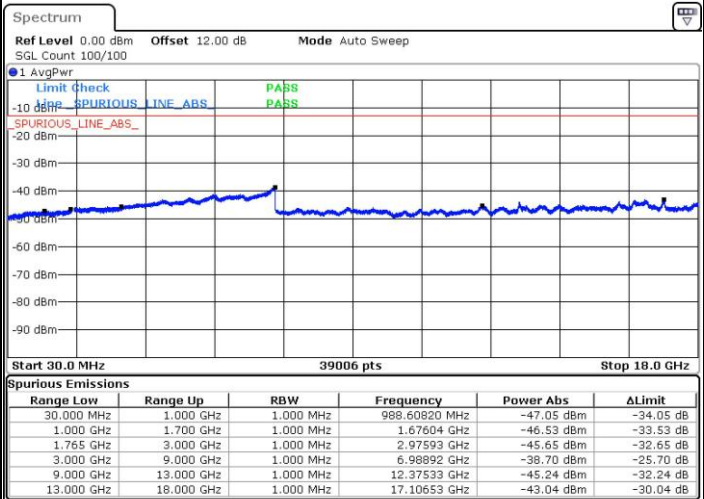
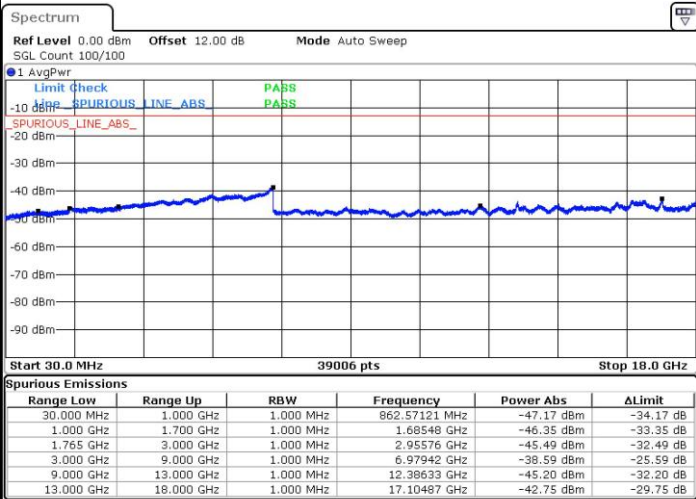
Date: 23.JUN.2019 16:30:35

Date: 23.JUN.2019 16:31:38

LTE Band 4 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 23.JUN.2019 16:37:02

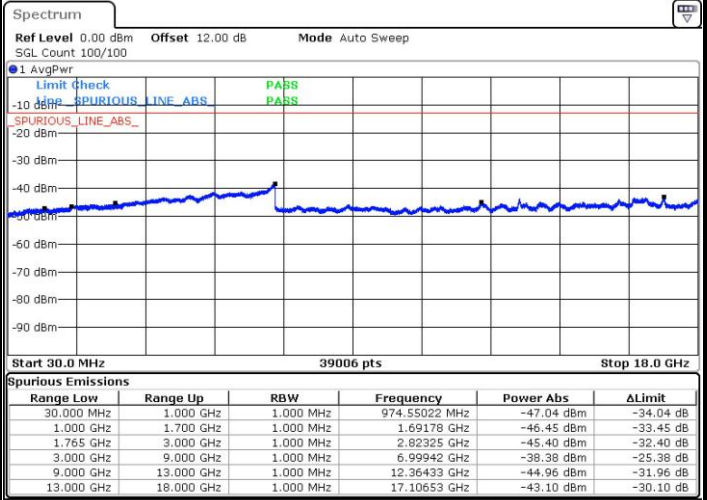
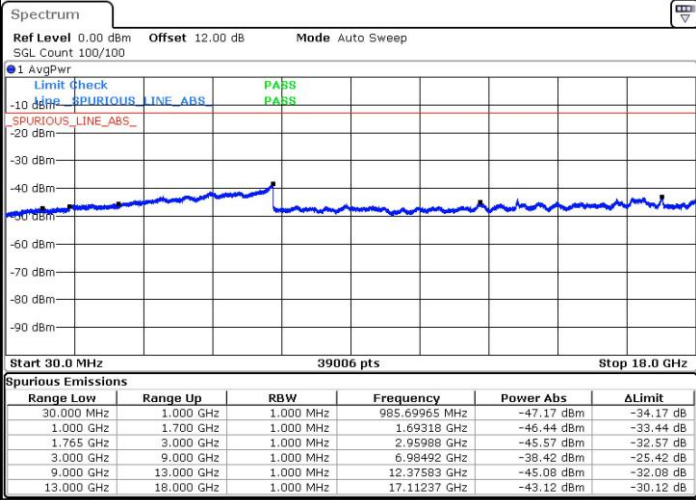
Date: 23.JUN.2019 16:38:05



LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

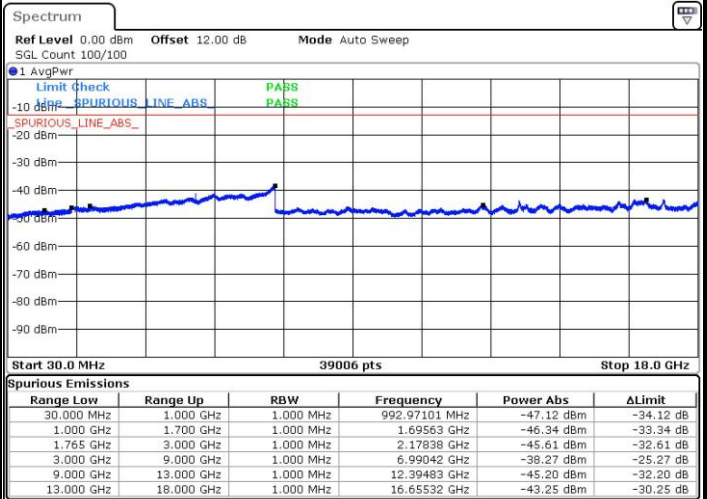
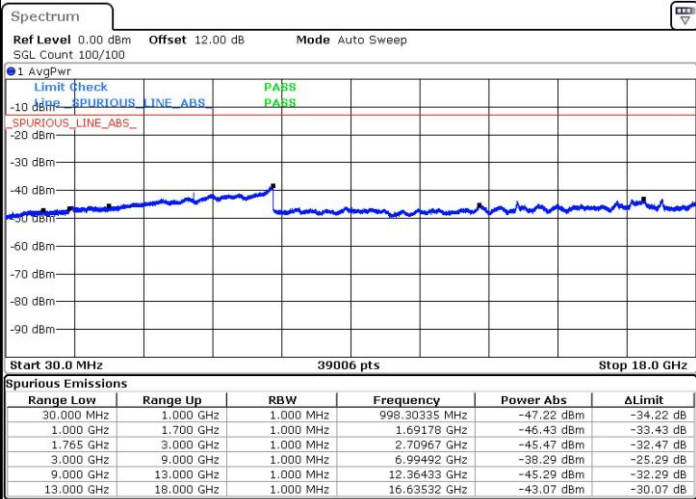


Date: 23.JUN.2019 16:39:54

Date: 23.JUN.2019 16:40:57

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 23.JUN.2019 16:46:21

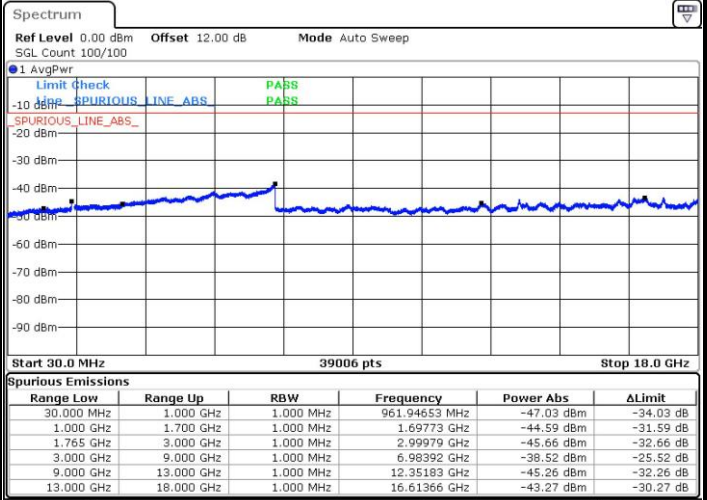
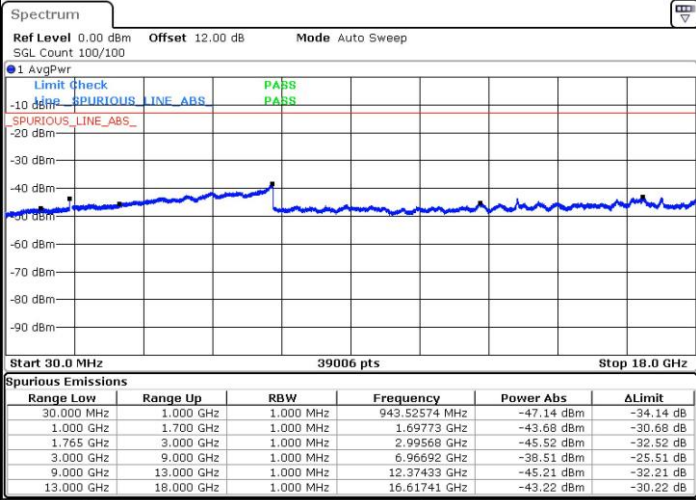
Date: 23.JUN.2019 16:47:24



LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

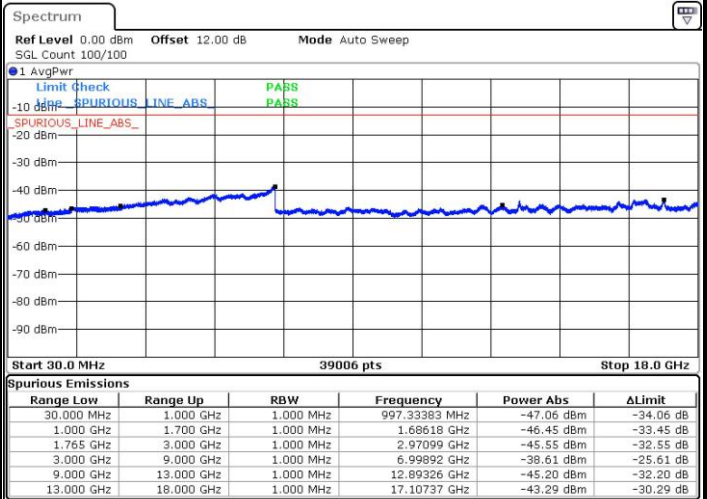
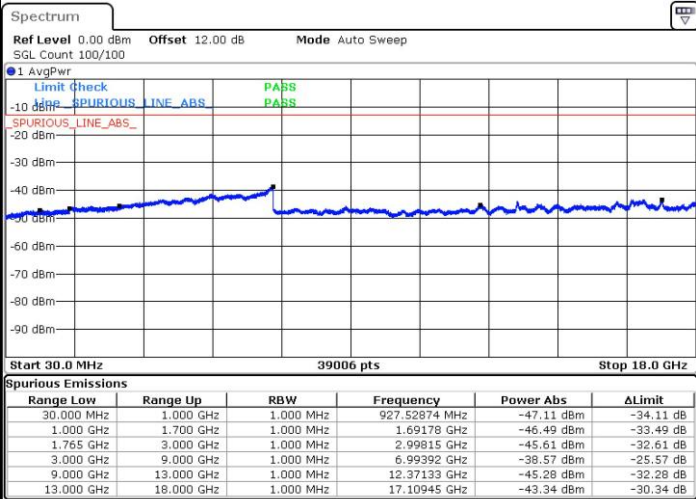


Date: 23.JUN.2019 16:52:48

Date: 23.JUN.2019 16:53:51

Middle Channel / QPSK

Middle Channel / 16QAM



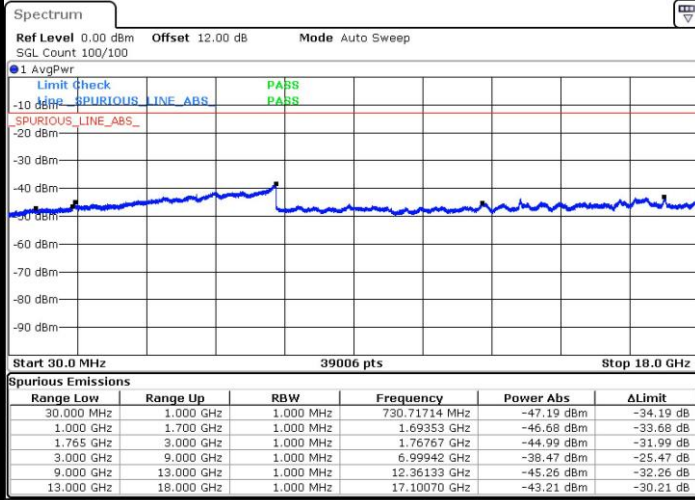
Date: 23.JUN.2019 16:55:39

Date: 23.JUN.2019 16:56:42



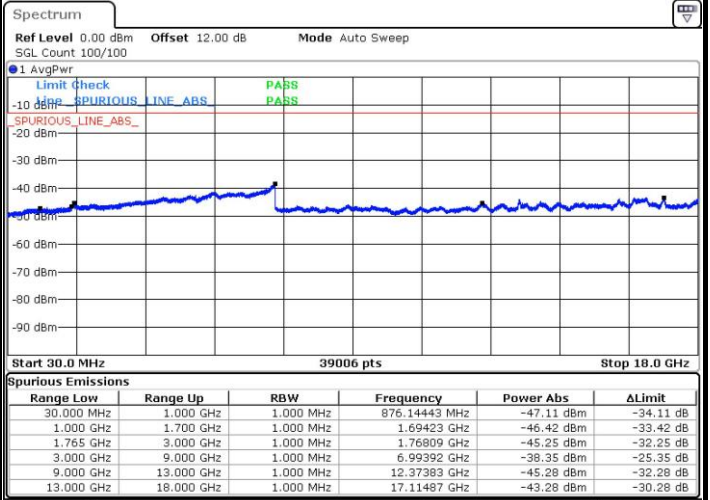
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 23 JUN.2019 17:02:06

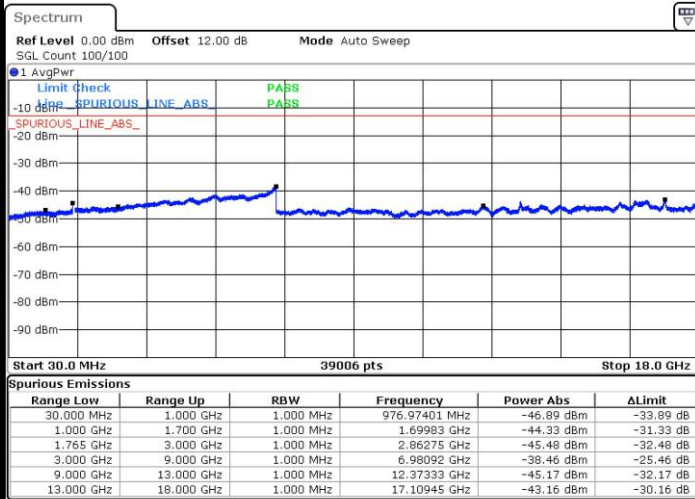
Highest Channel / 16QAM



Date: 23 JUN.2019 17:03:09

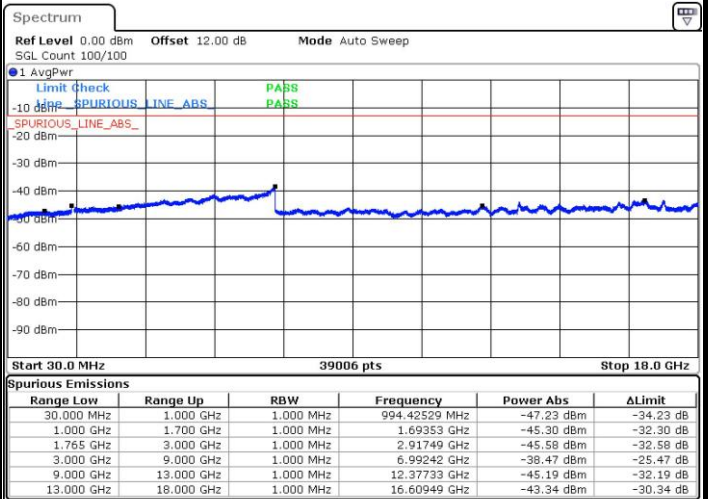
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 23 JUN.2019 17:08:33

Lowest Channel / 16QAM



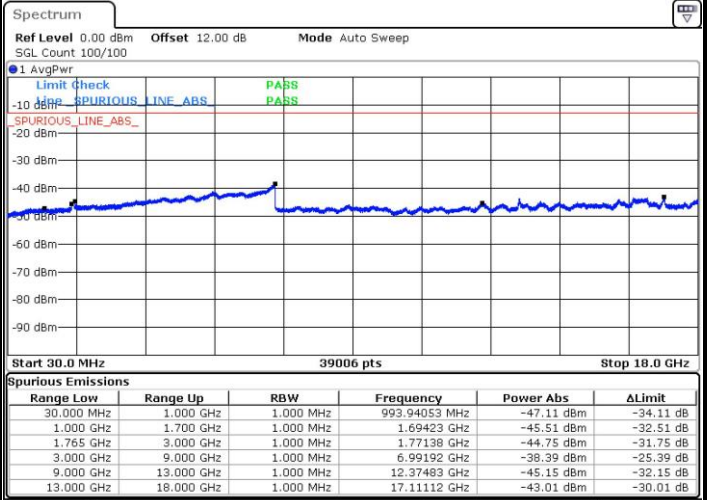
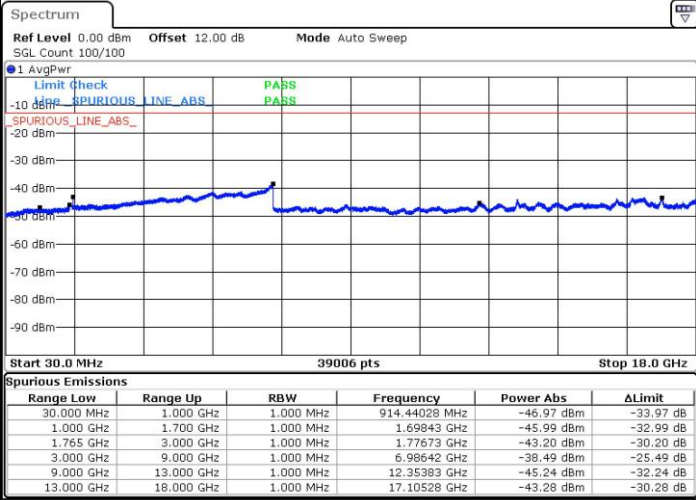
Date: 23 JUN.2019 17:09:36



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

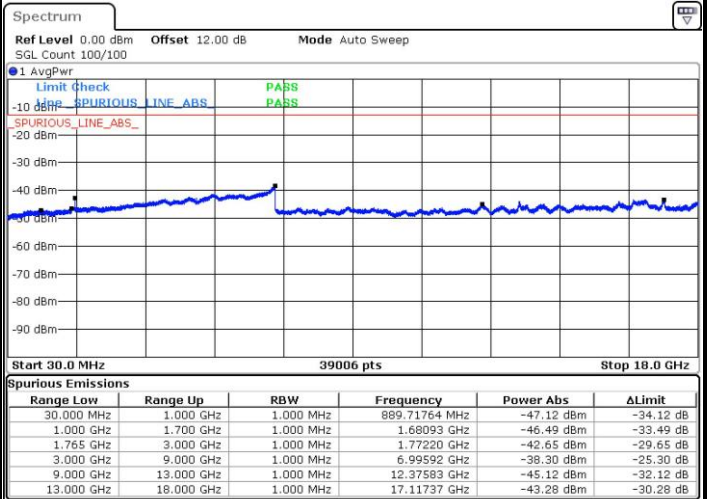
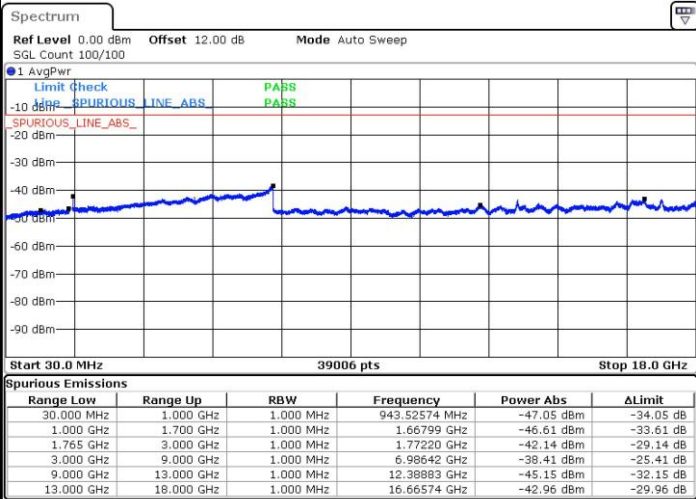


Date: 23.JUN.2019 17:11:25

Date: 23.JUN.2019 17:12:28

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 23.JUN.2019 17:17:52

Date: 23.JUN.2019 17:18:55



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0027	PASS
40	Normal Voltage	0.0030	
30	Normal Voltage	0.0059	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0036	
0	Normal Voltage	0.0046	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0042	
-30	Normal Voltage	0.0034	
20	Maximum Voltage	0.0036	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0056	

Note:

1. Normal Voltage =7.7 V. ; Battery End Point (BEP) =6.8 V. ; Maximum Voltage =8.8 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

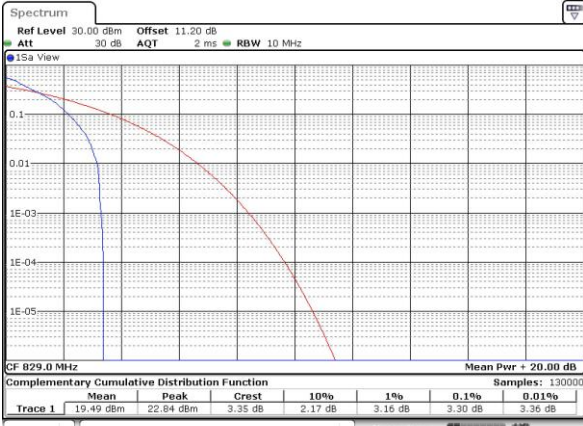
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.3	4.72	4.32	5.74	PASS
Middle CH	3.54	4.64	4.43	5.77	
Highest CH	3.57	4.67	4.67	5.88	



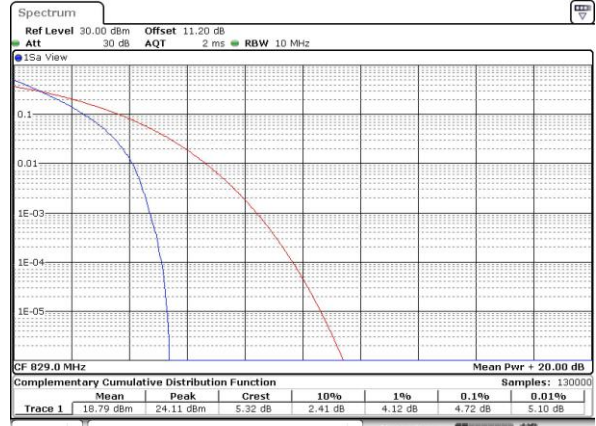
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



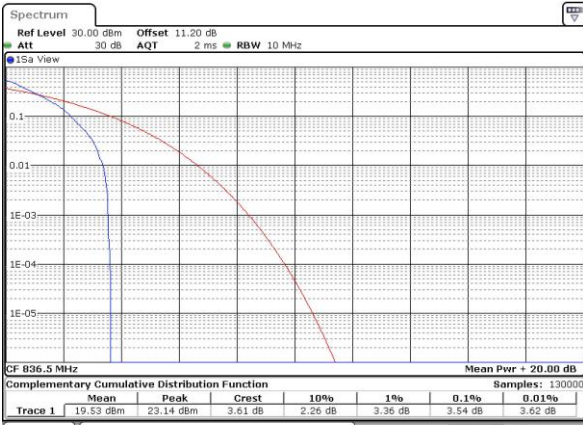
Date: 23 JUN 2019 19:12:10

Lowest Channel / Full RB



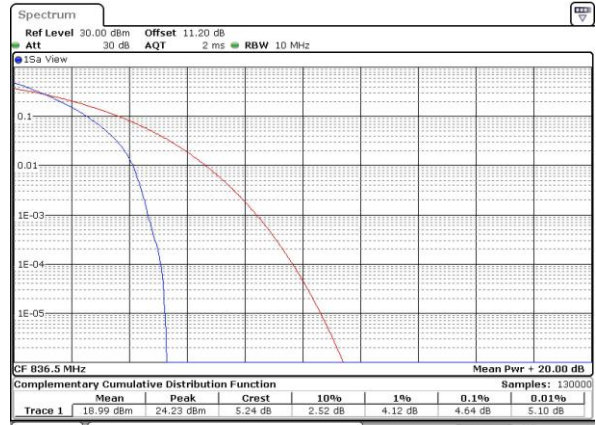
Date: 23 JUN 2019 19:12:21

Middle Channel / 1RB



Date: 23 JUN 2019 19:12:33

Middle Channel / Full RB



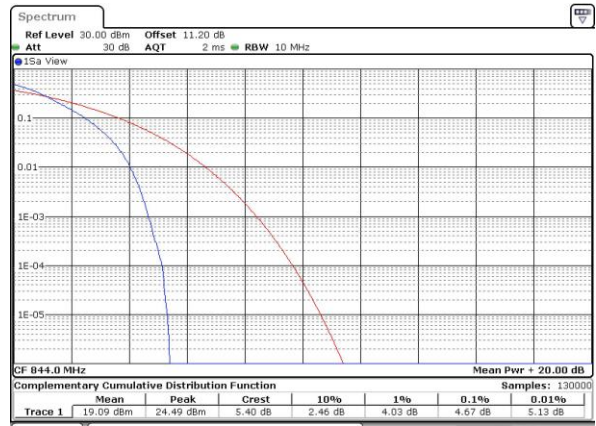
Date: 23 JUN 2019 19:13:49

Highest Channel / 1RB



Date: 23 JUN 2019 19:14:00

Highest Channel / Full RB

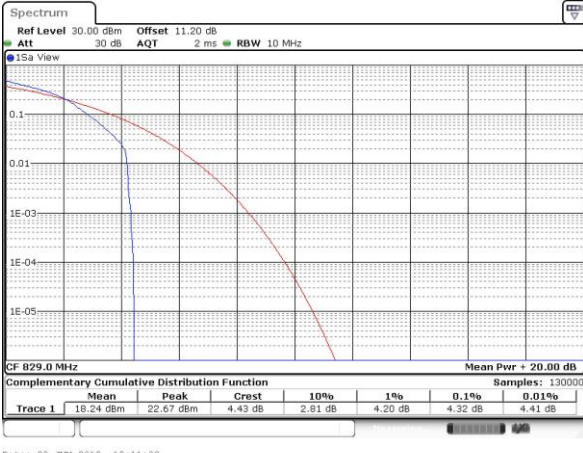


Date: 23 JUN 2019 19:14:11

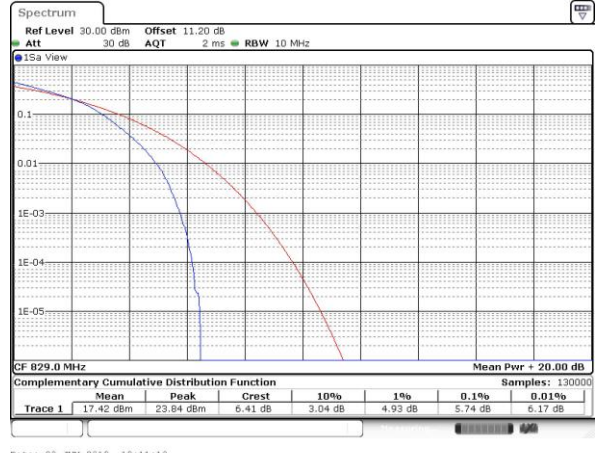


LTE Band 5 / 10MHz / 16QAM

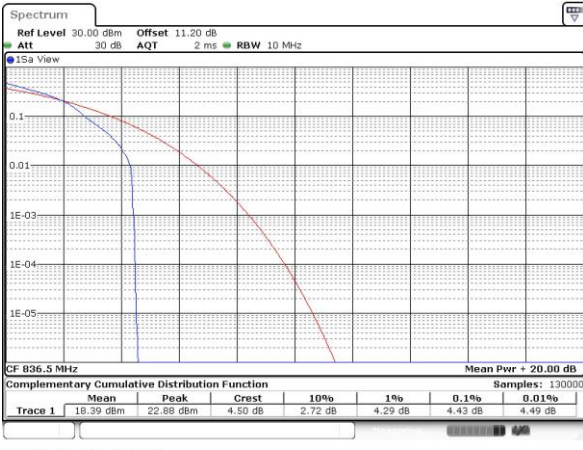
Lowest Channel / 1RB



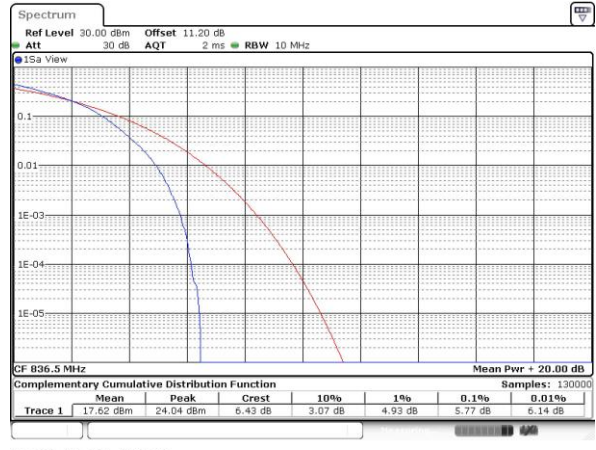
Lowest Channel / Full RB



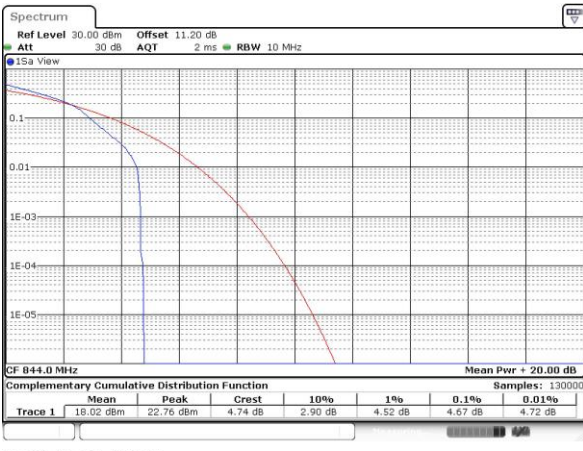
Middle Channel / 1RB



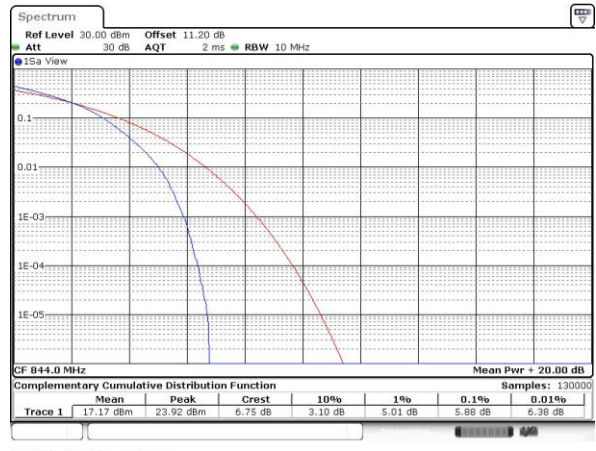
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





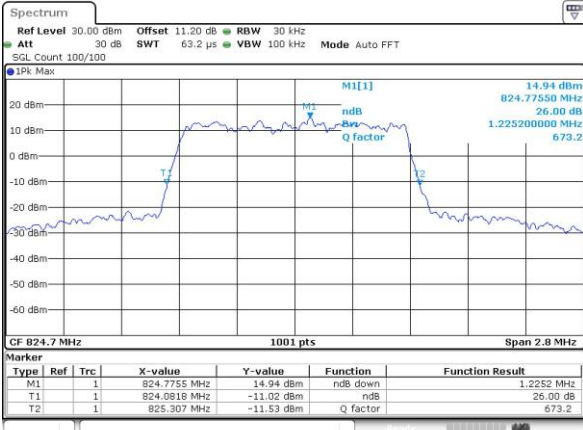
26dB Bandwidth

Mode BW Mod.	LTE Band 5 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.22	1.22	3.06	3.04	4.91	4.82	9.69	9.86	-	-	-	-
Middle CH	1.21	1.23	3.03	2.97	4.89	4.89	9.63	9.86	-	-	-	-
Highest CH	1.22	1.24	3.02	3.01	4.92	4.97	9.85	9.69	-	-	-	-



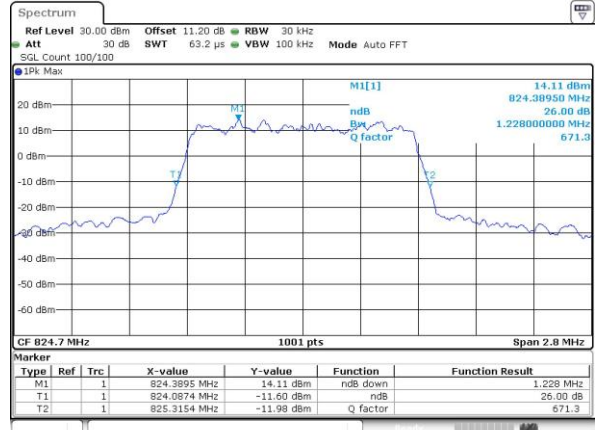
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



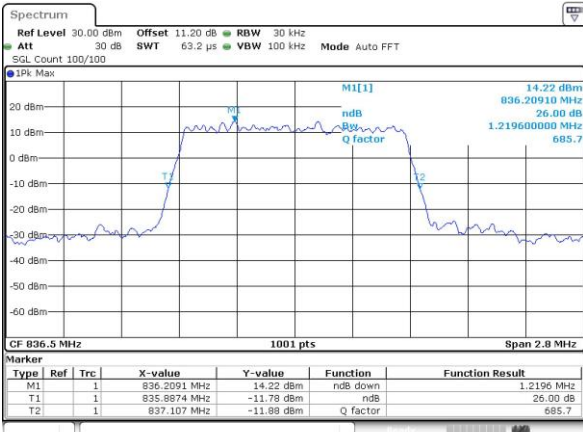
Date: 28 JUN 2019 05:15:32

Lowest Channel / 1.4MHz / 16QAM



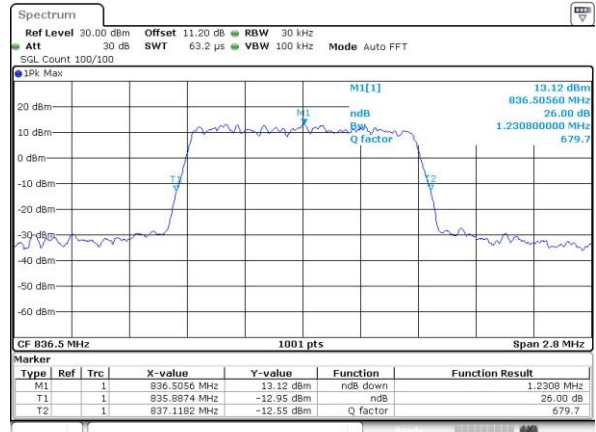
Date: 28 JUN 2019 05:15:44

Middle Channel / 1.4MHz / QPSK



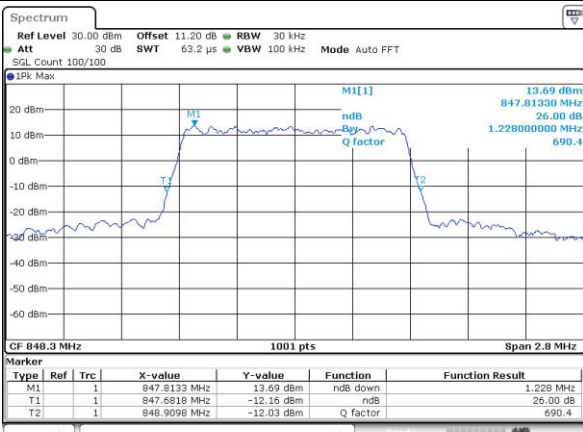
Date: 28 JUN 2019 05:15:55

Middle Channel / 1.4MHz / 16QAM



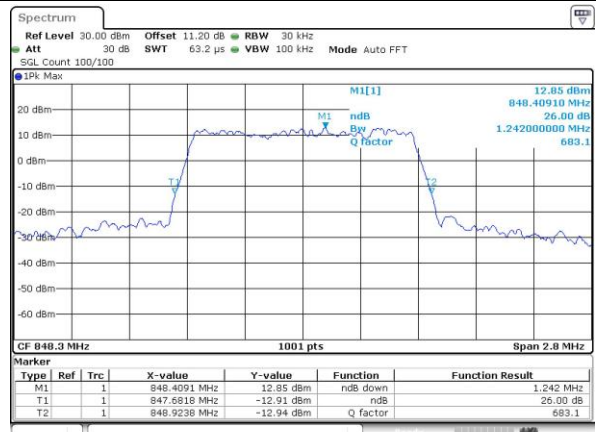
Date: 28 JUN 2019 05:16:07

Highest Channel / 1.4MHz / QPSK



Date: 28 JUN 2019 05:16:18

Highest Channel / 1.4MHz / 16QAM

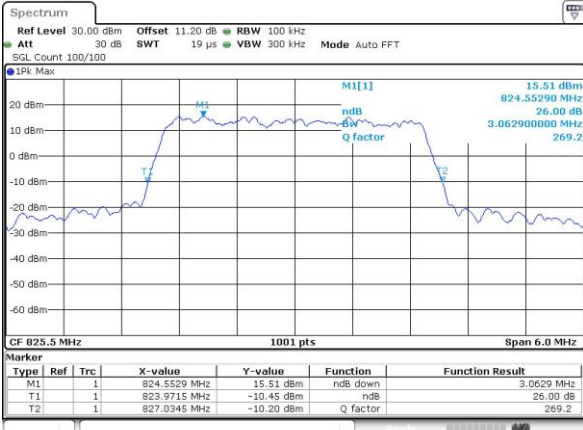


Date: 28 JUN 2019 05:16:30



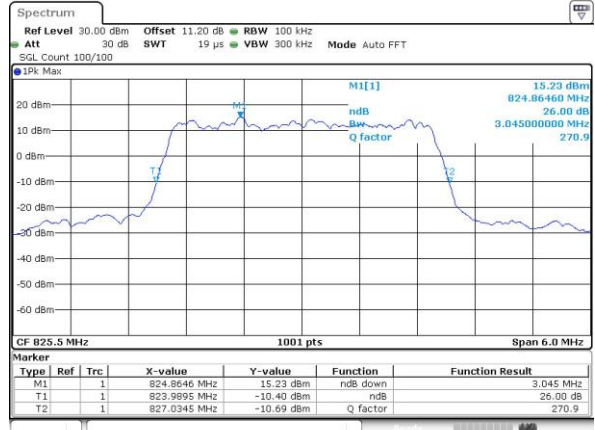
LTE Band 5

Lowest Channel / 3MHz / QPSK



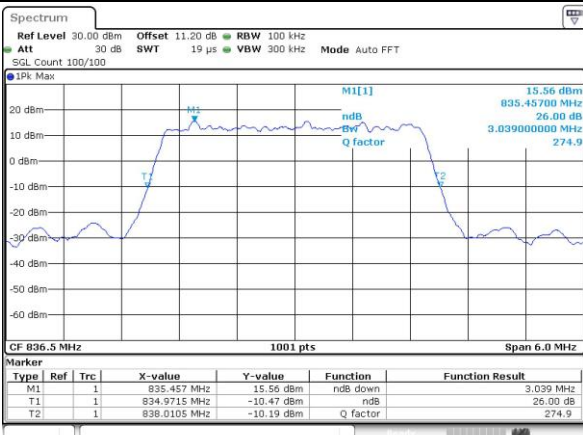
Date: 28 JUN 2019 05:20:09

Lowest Channel / 3MHz / 16QAM



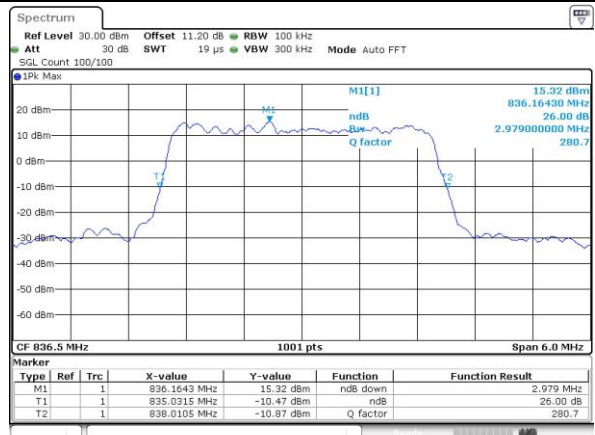
Date: 28 JUN 2019 05:20:20

Middle Channel / 3MHz / QPSK



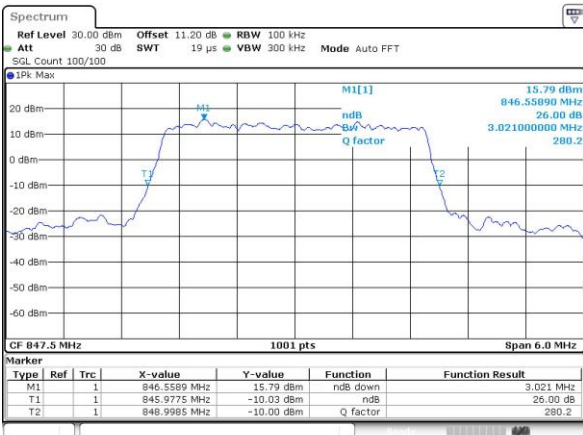
Date: 28 JUN 2019 05:20:32

Middle Channel / 3MHz / 16QAM



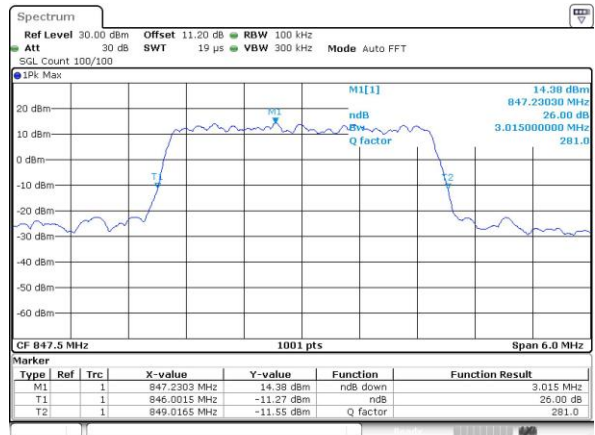
Date: 28 JUN 2019 05:20:43

Highest Channel / 3MHz / QPSK



Date: 28 JUN 2019 05:20:55

Highest Channel / 3MHz / 16QAM

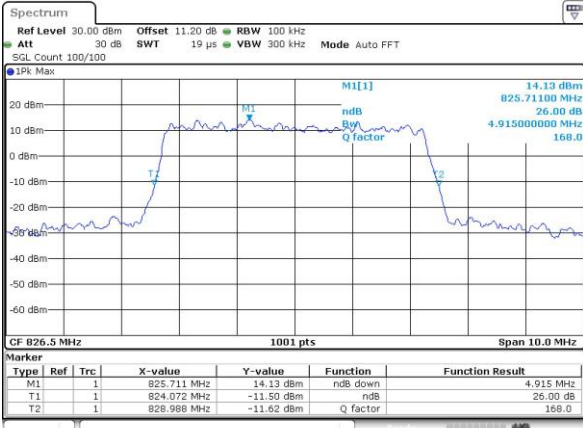


Date: 28 JUN 2019 05:21:06



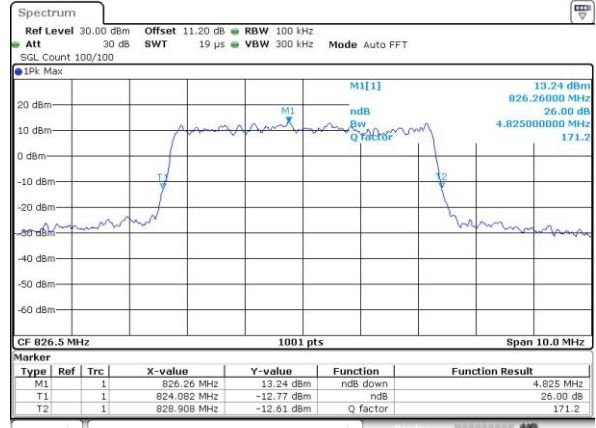
LTE Band 5

Lowest Channel / 5MHz / QPSK



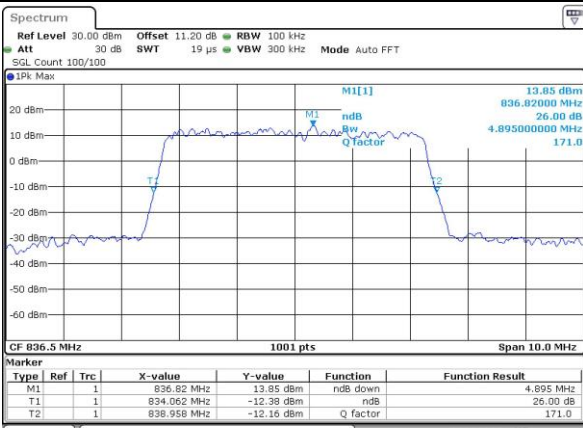
Date: 28 JUN 2019 05:21:18

Lowest Channel / 5MHz / 16QAM



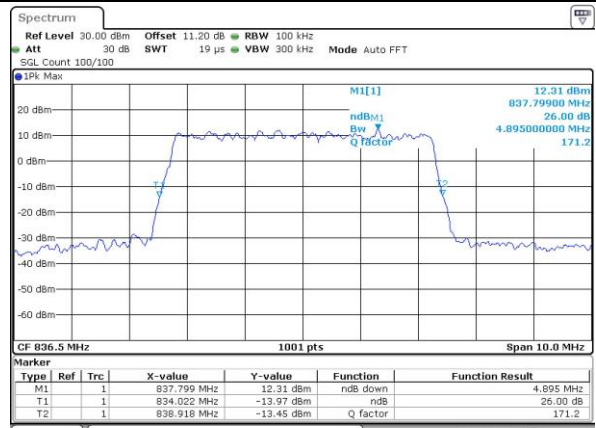
Date: 28 JUN 2019 05:21:29

Middle Channel / 5MHz / QPSK



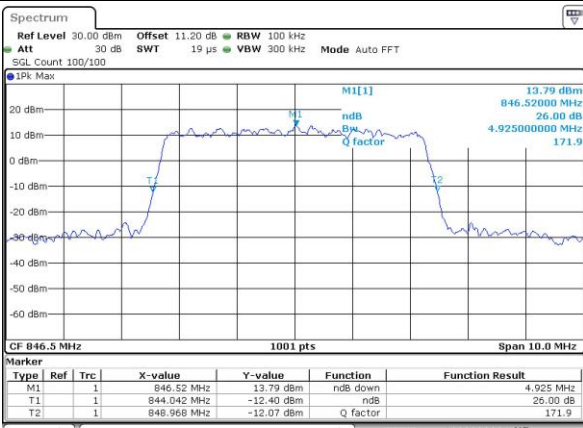
Date: 28 JUN 2019 05:21:40

Middle Channel / 5MHz / 16QAM



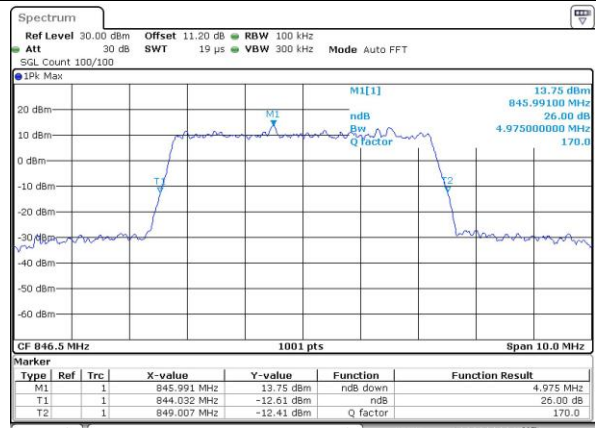
Date: 28 JUN 2019 05:21:52

Highest Channel / 5MHz / QPSK



Date: 28 JUN 2019 05:22:03

Highest Channel / 5MHz / 16QAM

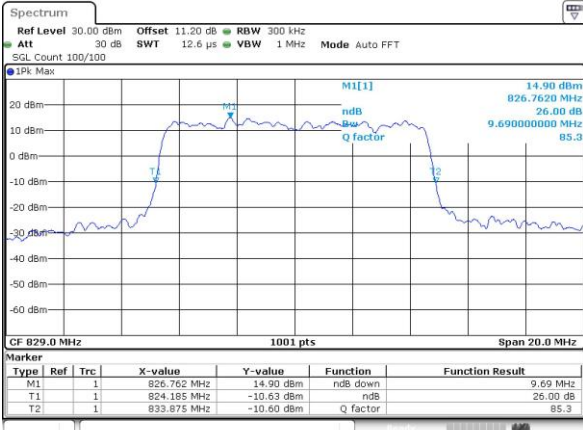


Date: 28 JUN 2019 05:22:15



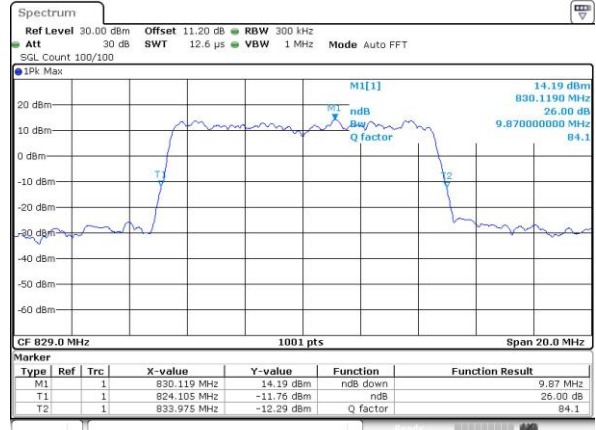
LTE Band 5

Lowest Channel / 10MHz / QPSK



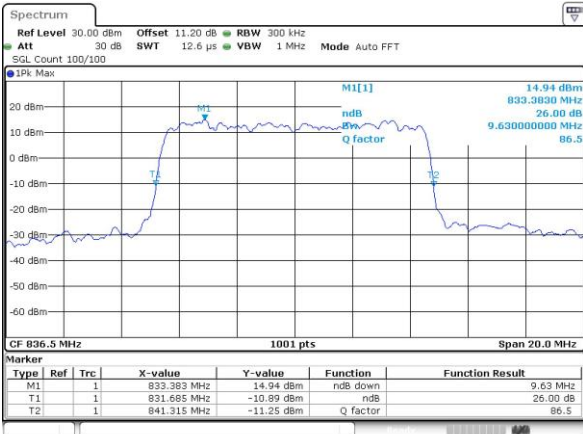
Date: 28 JUN 2019 05:22:26

Lowest Channel / 10MHz / 16QAM



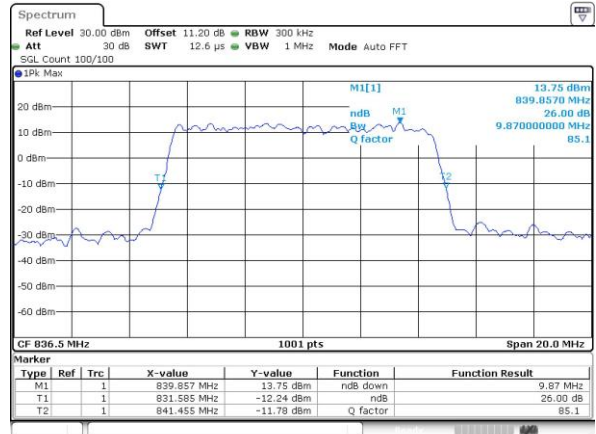
Date: 28 JUN 2019 05:22:38

Middle Channel / 10MHz / QPSK



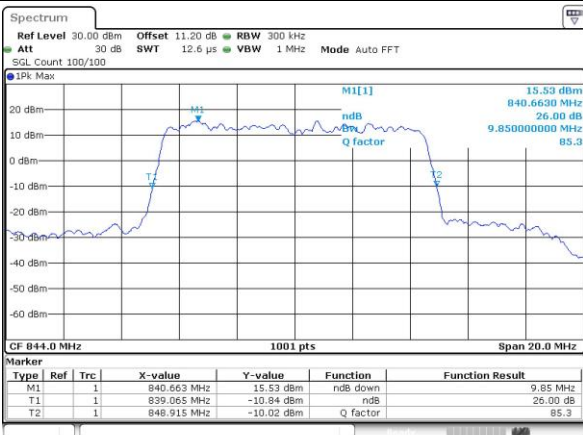
Date: 28 JUN 2019 05:22:49

Middle Channel / 10MHz / 16QAM



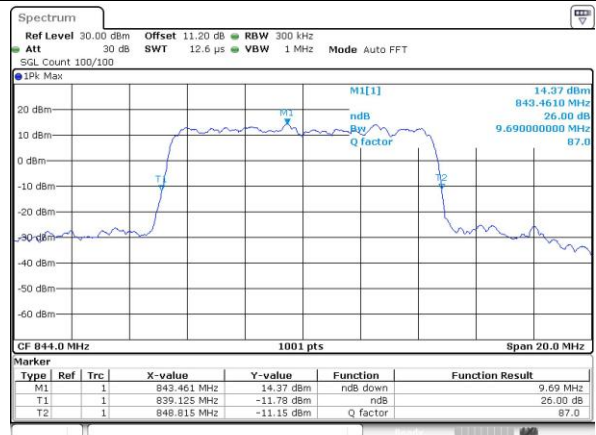
Date: 28 JUN 2019 05:23:01

Highest Channel / 10MHz / QPSK



Date: 28 JUN 2019 05:23:12

Highest Channel / 10MHz / 16QAM



Date: 28 JUN 2019 05:23:24



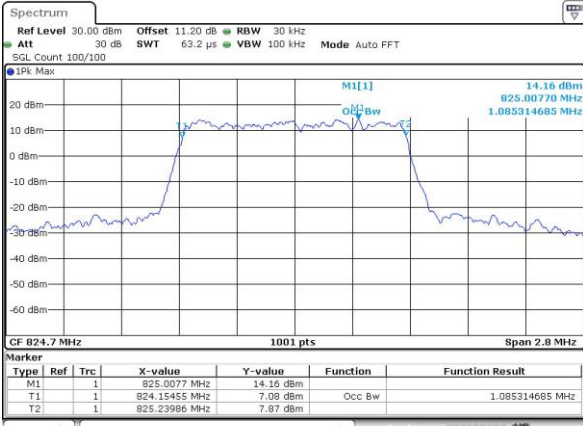
Occupied Bandwidth

Mode BW Mod.	LTE Band 5 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.08	1.09	2.7	2.69	4.48	4.47	9.05	9.07	-	-	-	-
Middle CH	1.09	1.08	2.72	2.71	4.49	4.47	9.05	9.01	-	-	-	-
Highest CH	1.08	1.09	2.7	2.72	4.49	4.49	8.97	9.01	-	-	-	-



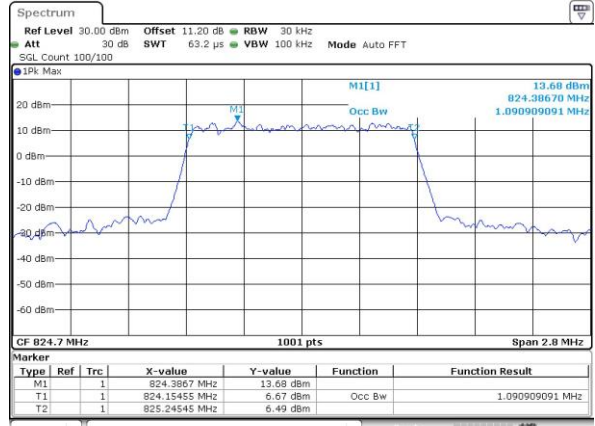
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



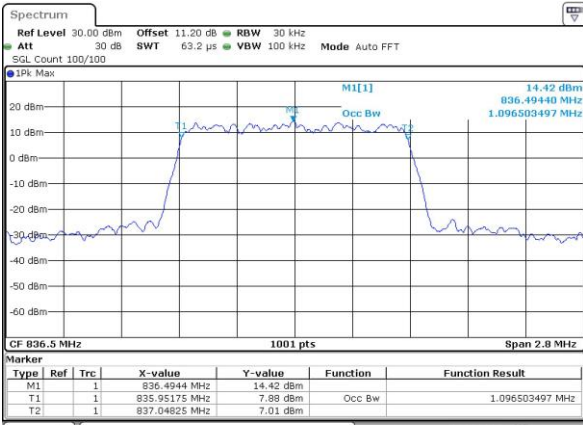
Date: 28 JUN 2019 05:14:23

Lowest Channel / 1.4MHz / 16QAM



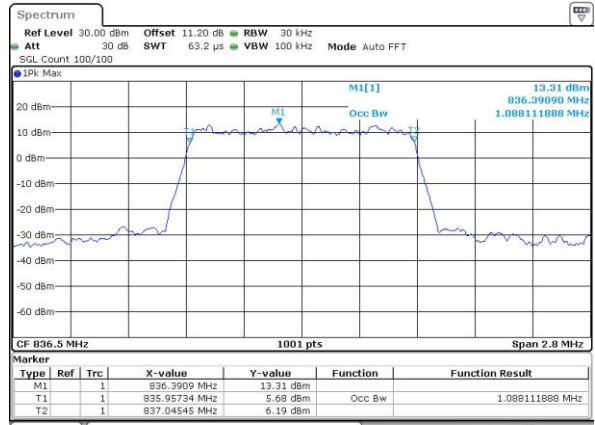
Date: 28 JUN 2019 05:14:35

Middle Channel / 1.4MHz / QPSK



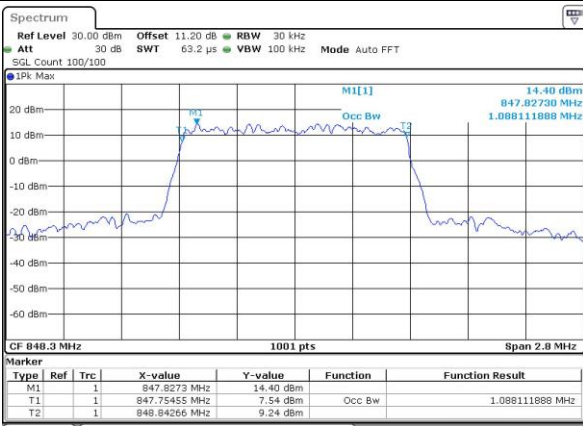
Date: 28 JUN 2019 05:14:46

Middle Channel / 1.4MHz / 16QAM



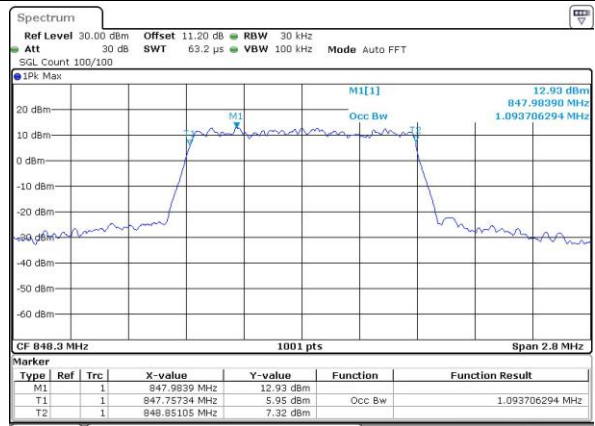
Date: 28 JUN 2019 05:14:58

Highest Channel / 1.4MHz / QPSK



Date: 28 JUN 2019 05:15:09

Highest Channel / 1.4MHz / 16QAM



Date: 28 JUN 2019 05:15:21