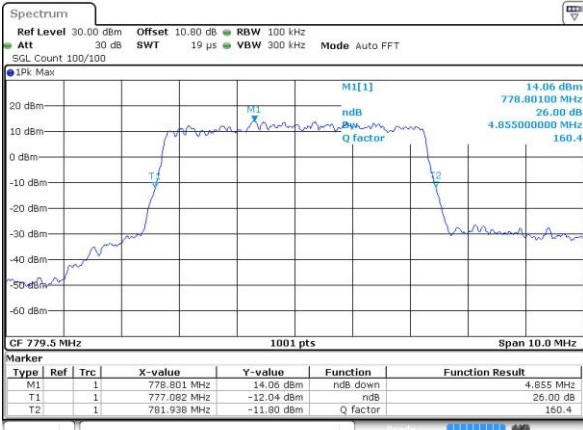




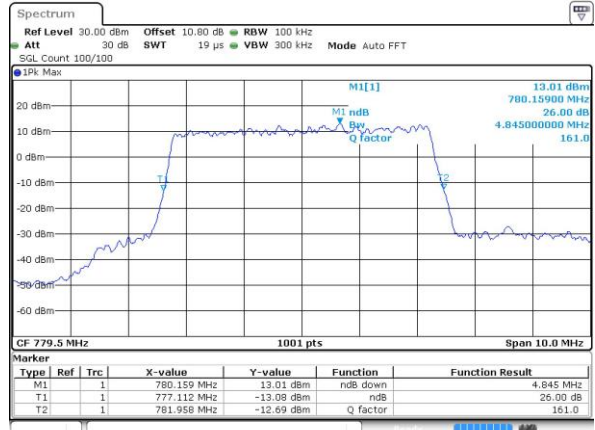
LTE Band 13

Lowest Channel / 5MHz / QPSK



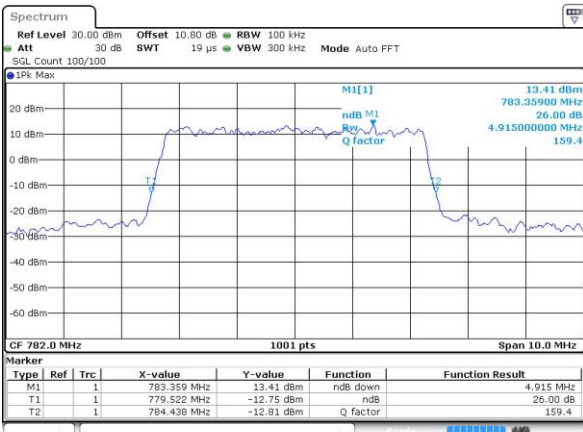
Date: 9 APR 2018 20:21:47

Lowest Channel / 5MHz / 16QAM



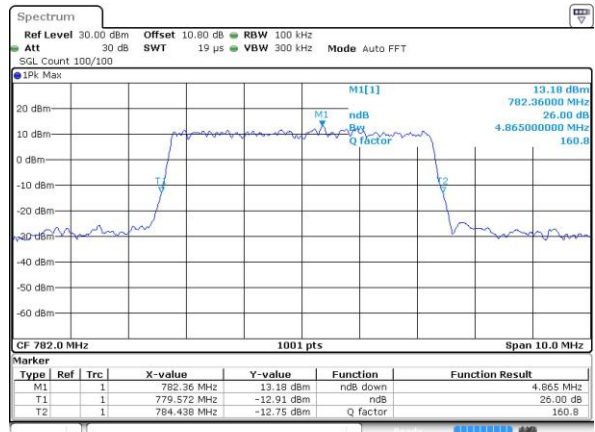
Date: 9 APR 2018 20:21:37

Middle Channel / 5MHz / QPSK



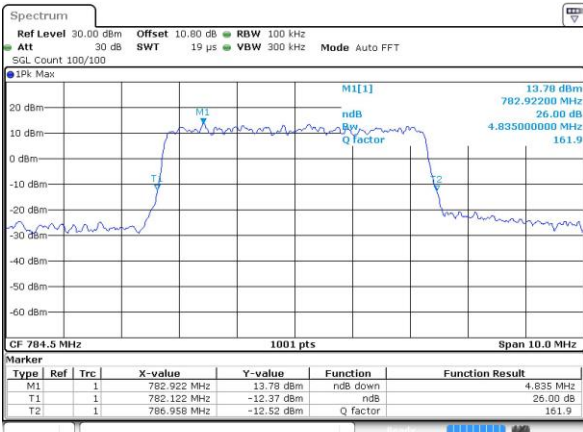
Date: 9 APR 2018 20:32:12

Middle Channel / 5MHz / 16QAM



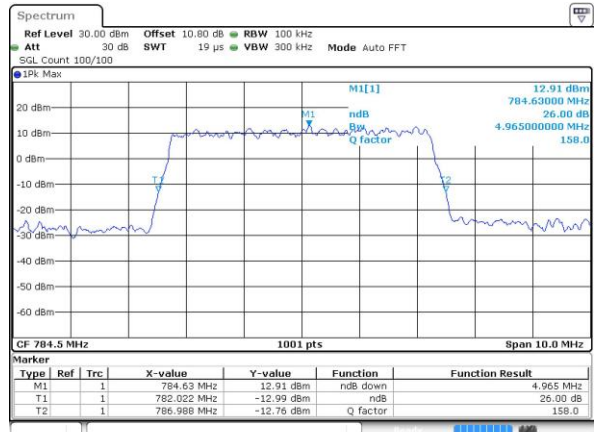
Date: 9 APR 2018 20:32:22

Highest Channel / 5MHz / QPSK



Date: 9 APR 2018 20:33:25

Highest Channel / 5MHz / 16QAM

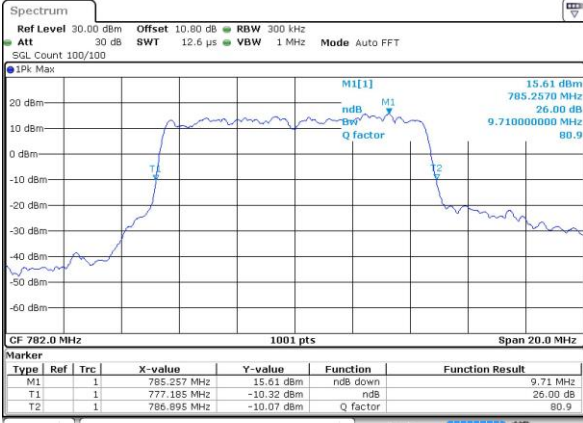


Date: 9 APR 2018 20:33:15



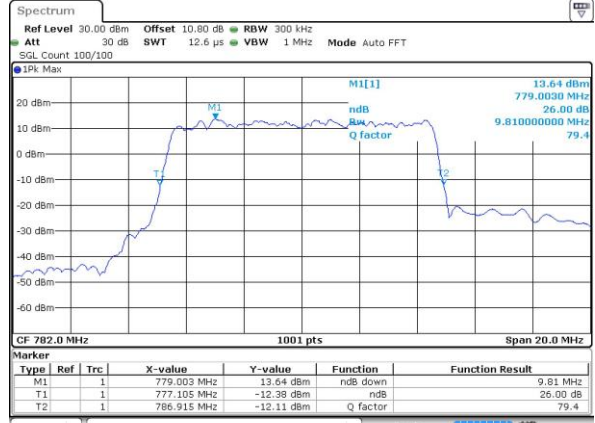
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 9 APR 2018 20:42:33

Middle Channel / 10MHz / 16QAM



Date: 9 APR 2018 20:42:22



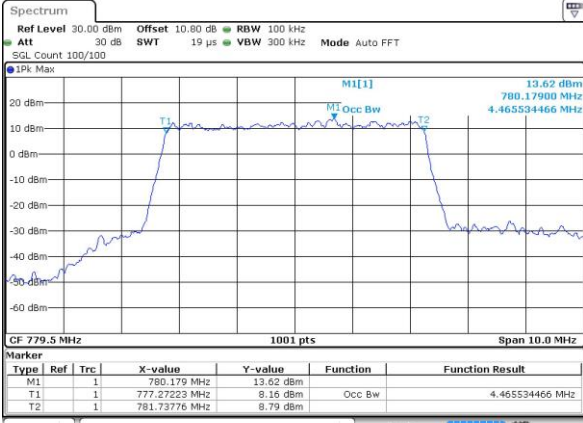
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.47	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.5	4.51	8.99	8.99	-	-	-	-
Highest CH	-	-	-	-	4.48	4.49	-	-	-	-	-	-



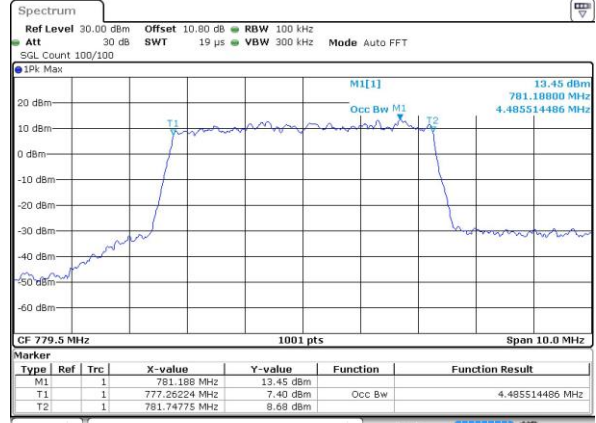
LTE Band 13

Lowest Channel / 5MHz / QPSK



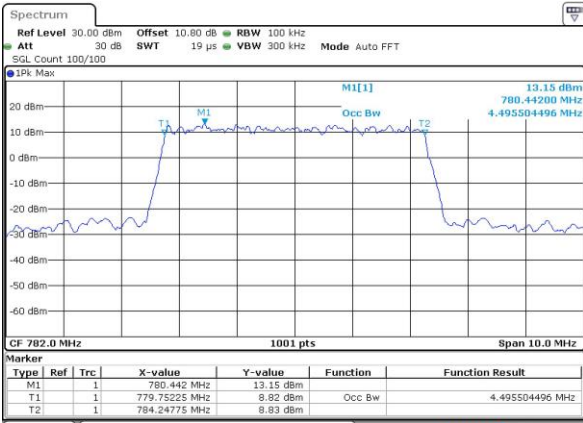
Date: 9 APR 2018 20:21:16

Lowest Channel / 5MHz / 16QAM



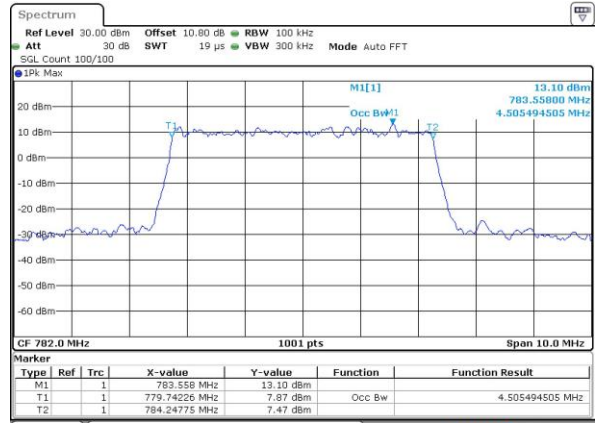
Date: 9 APR 2018 20:21:26

Middle Channel / 5MHz / QPSK



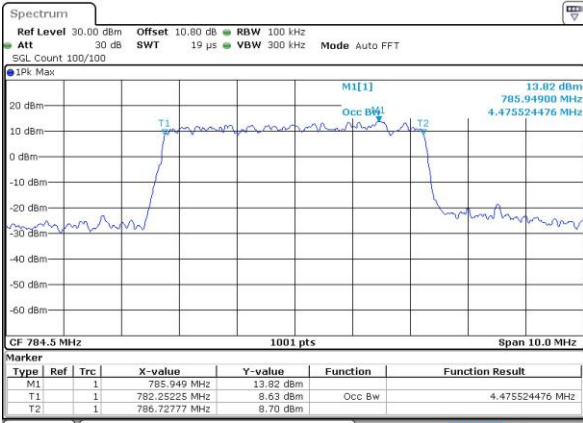
Date: 9 APR 2018 20:32:43

Middle Channel / 5MHz / 16QAM



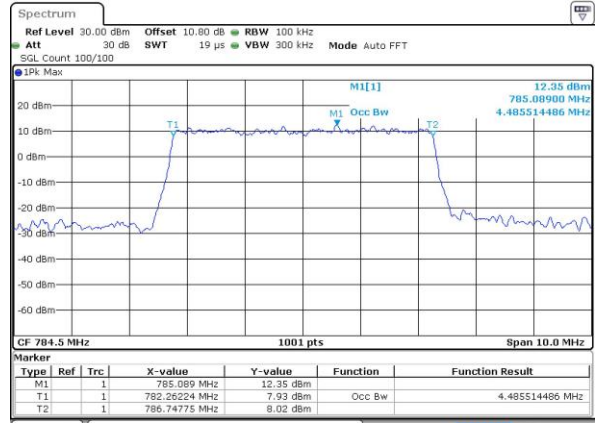
Date: 9 APR 2018 20:32:33

Highest Channel / 5MHz / QPSK



Date: 9 APR 2018 20:32:54

Highest Channel / 5MHz / 16QAM

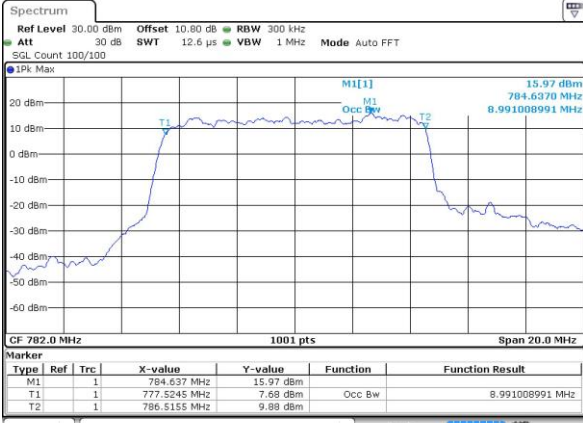


Date: 9 APR 2018 20:33:04



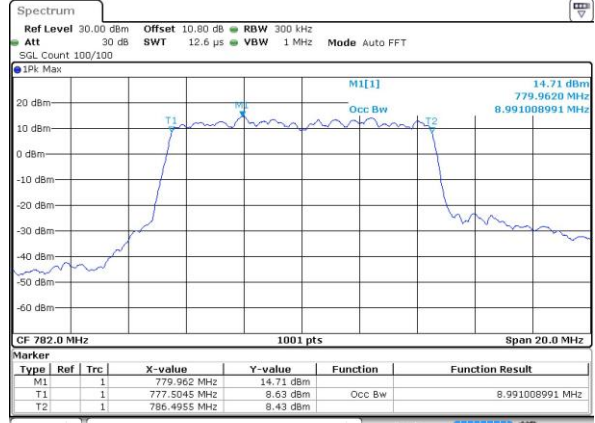
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 9 APR 2018 20:42:01

Middle Channel / 10MHz / 16QAM



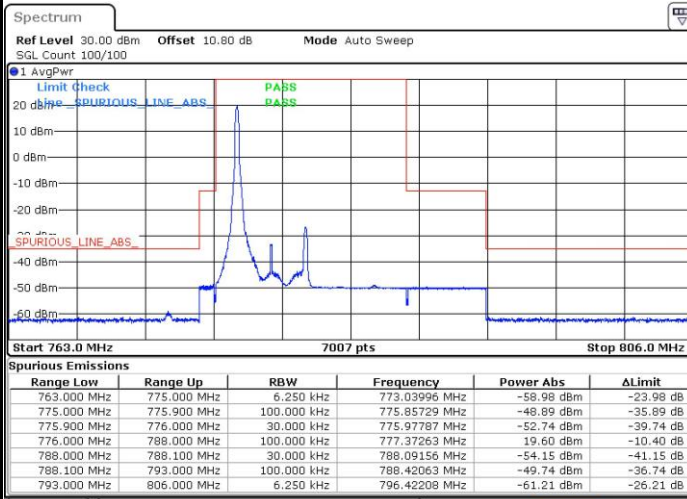
Date: 9 APR 2018 20:42:12



Conducted Band Edge

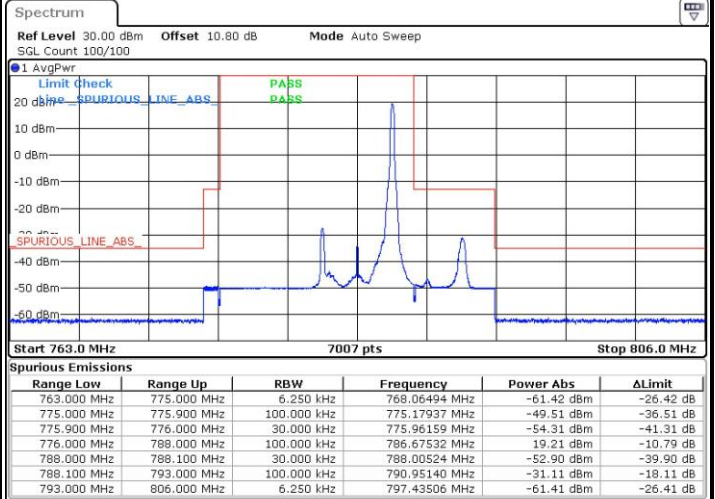
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



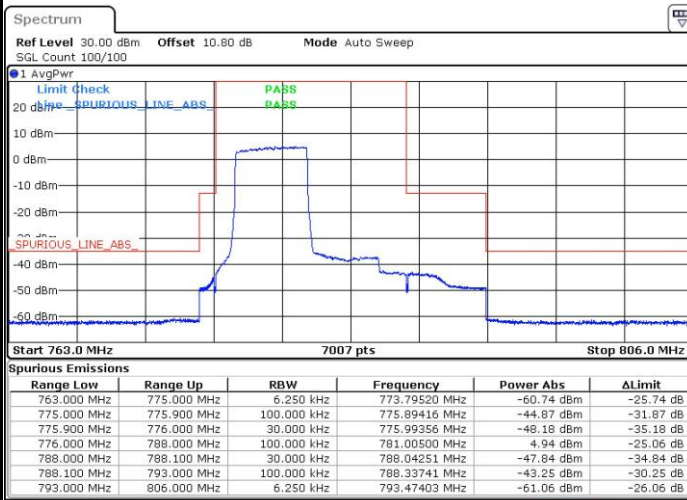
Date: 9 APR 2018 20:28:25

Highest Band Edge / 1 RB



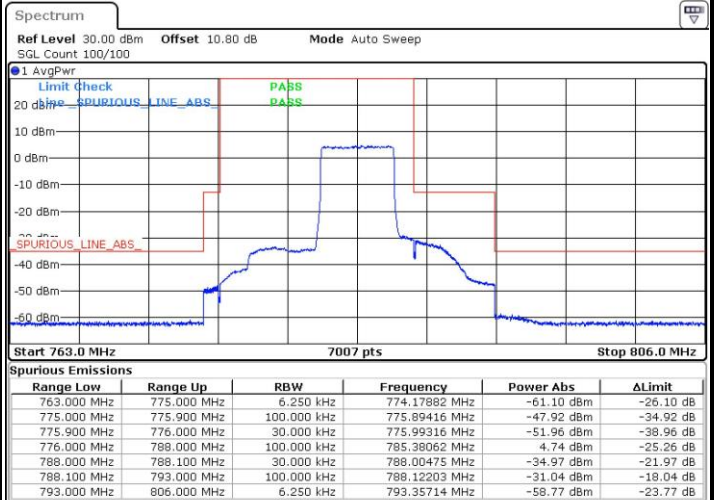
Date: 9 APR 2018 20:40:02

Lowest Band Edge / Full RB



Date: 9 APR 2018 20:23:26

Highest Band Edge / Full RB



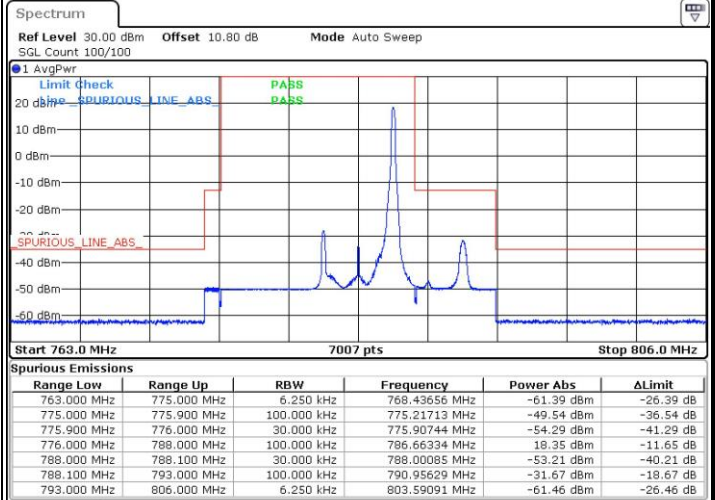
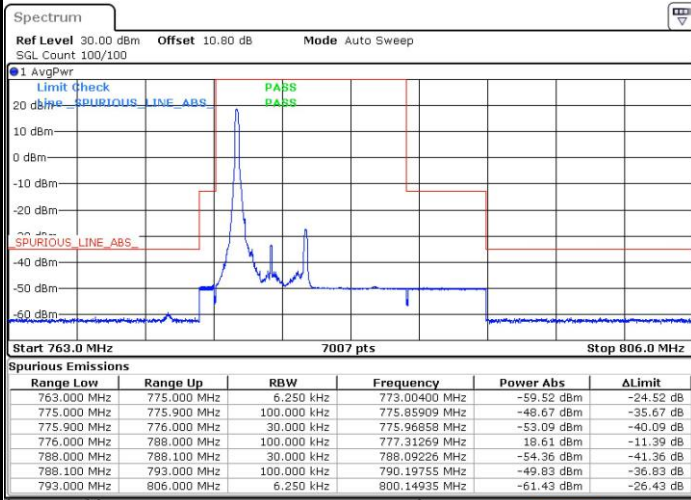
Date: 9 APR 2018 20:35:04



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

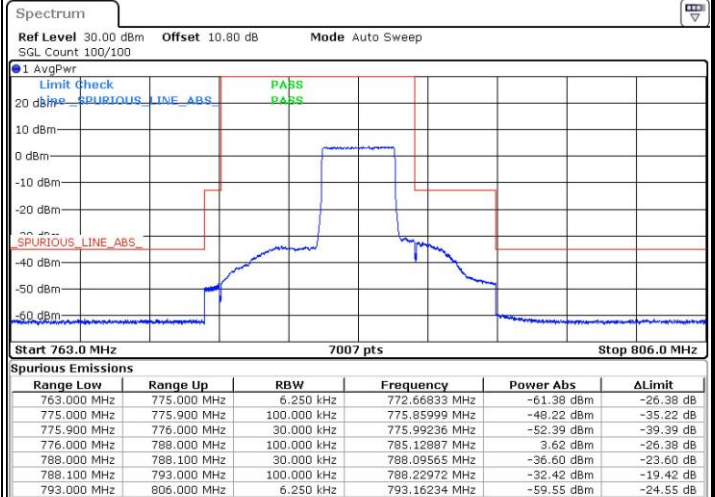
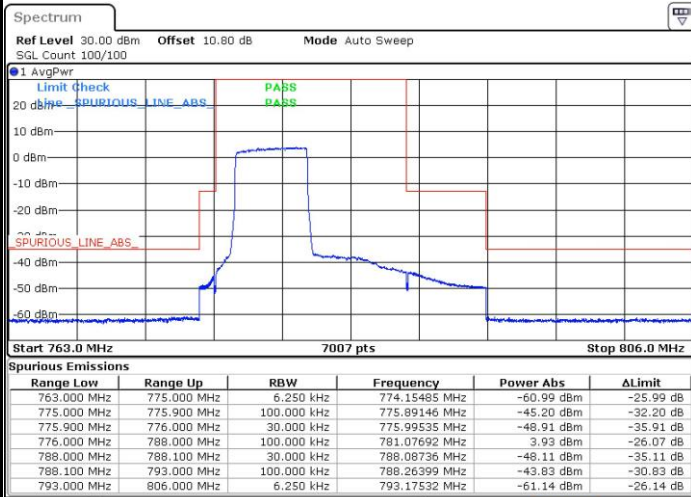


Date: 9 APR 2018 20:26:45

Date: 9 APR 2018 20:38:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9 APR 2018 20:25:06

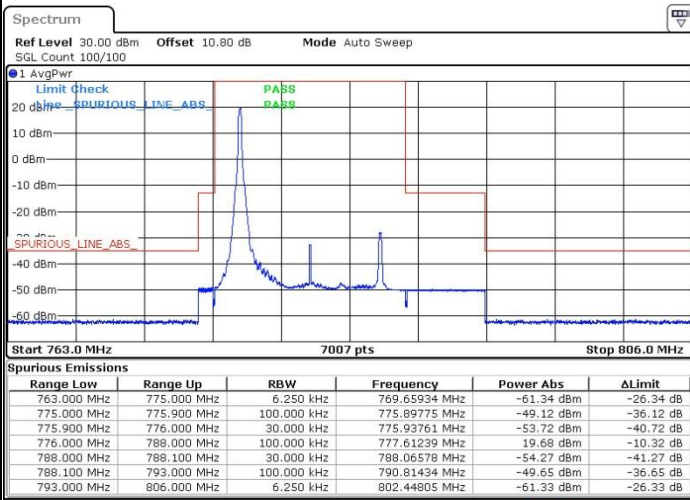
Date: 9 APR 2018 20:36:43



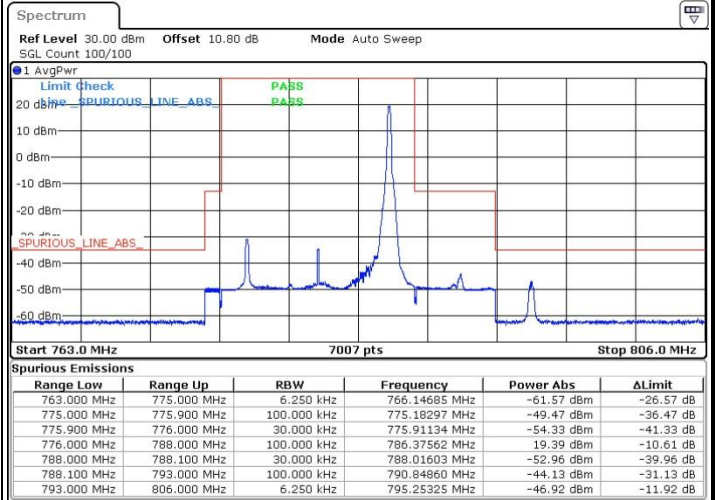
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

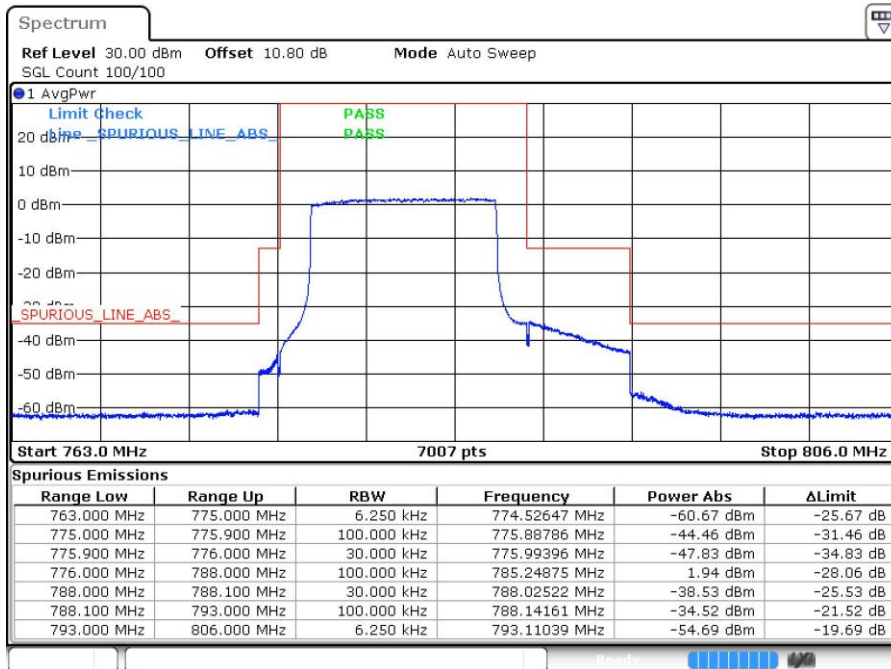


Date: 9 APR 2018 20:49:10



Date: 9 APR 2018 20:50:50

Band Edge / Full RB

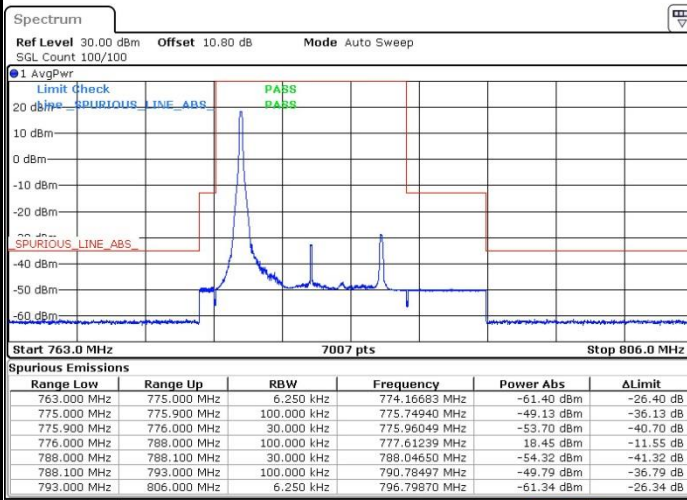


Date: 9 APR 2018 20:44:12



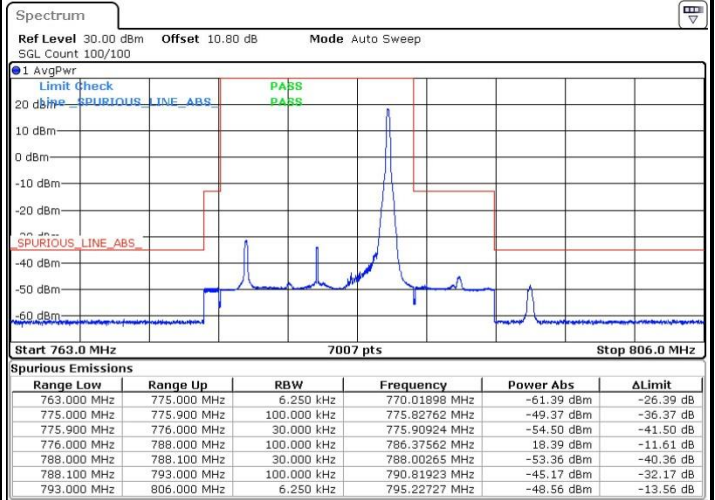
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



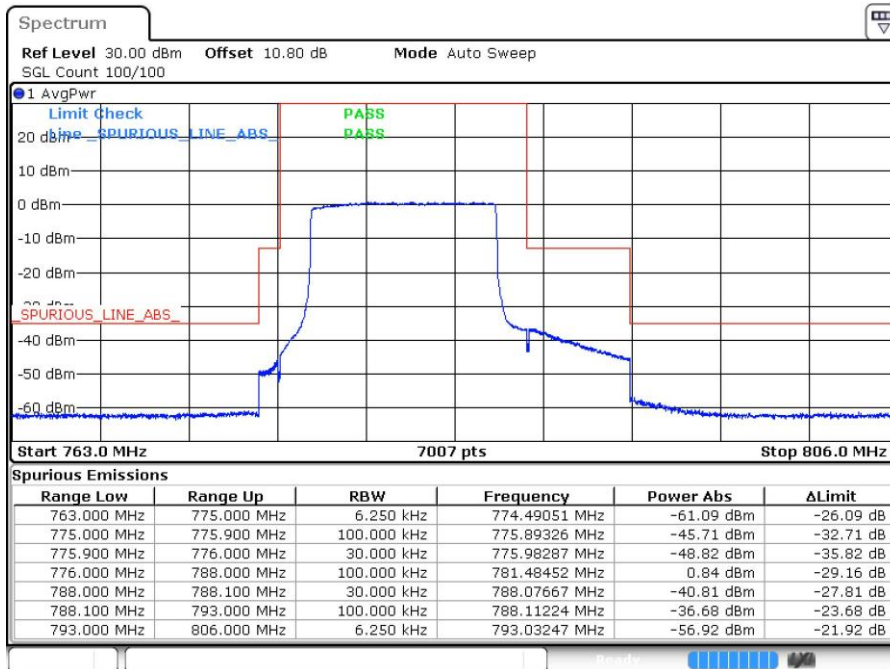
Date: 9 APR 2018 20:47:31

Highest Band Edge / 1 RB



Date: 9 APR 2018 20:52:29

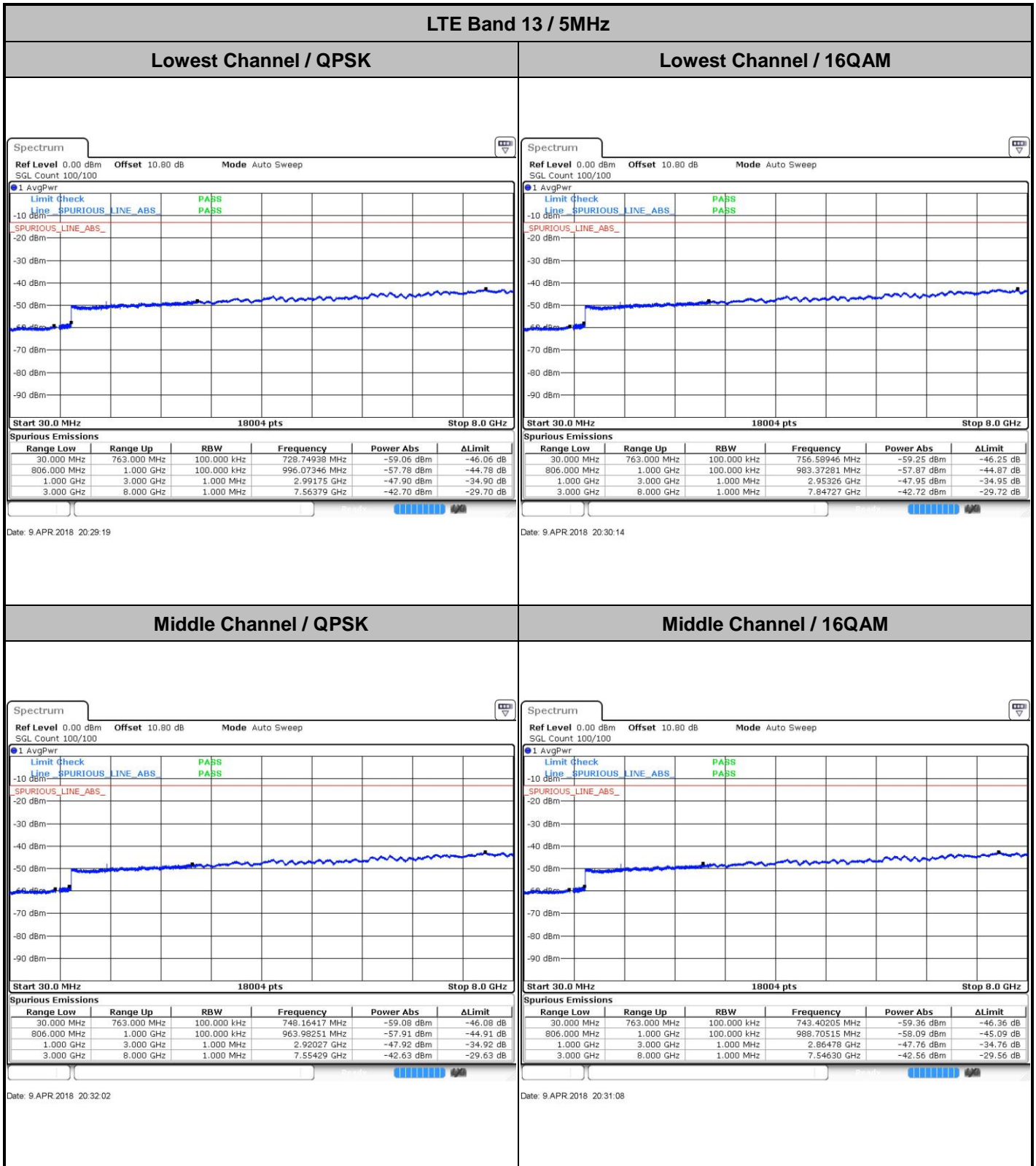
Band Edge / Full RB



Date: 9 APR 2018 20:45:51



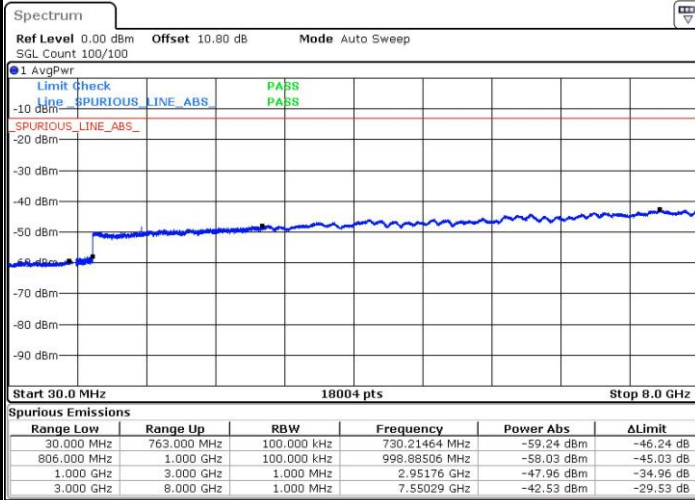
Conducted Spurious Emission





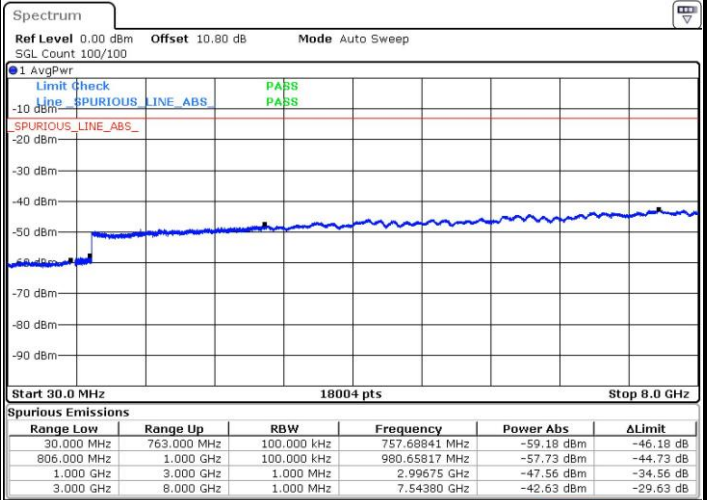
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 9 APR 2018 20:40:57

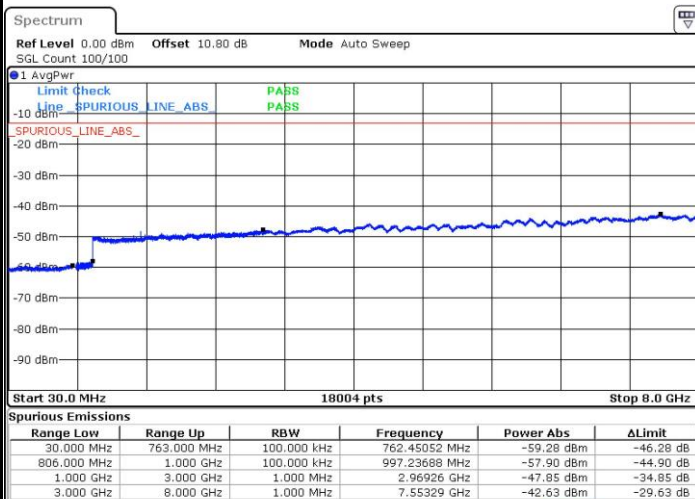
Highest Channel / 16QAM



Date: 9 APR 2018 20:41:51

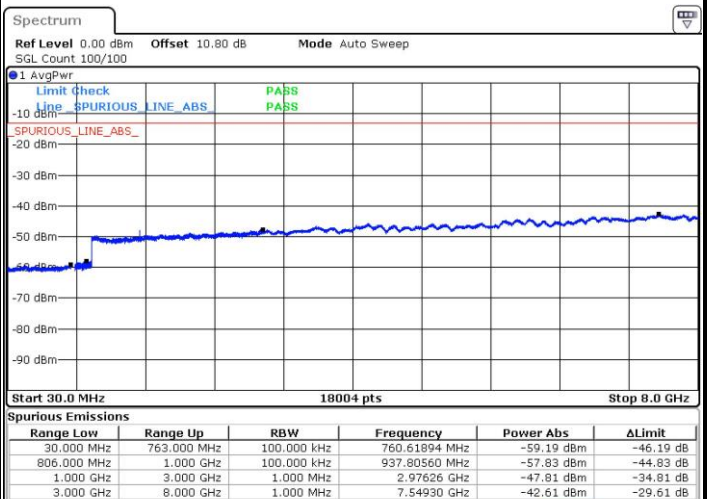
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 9 APR 2018 20:54:18

Middle Channel / 16QAM



Date: 9 APR 2018 20:53:24



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	0.0059	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0042	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0146	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0087	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0026	

Note:

1. Normal Voltage =120 V. ; Battery End Point (BEP) =102 V. ; Maximum Voltage =138 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

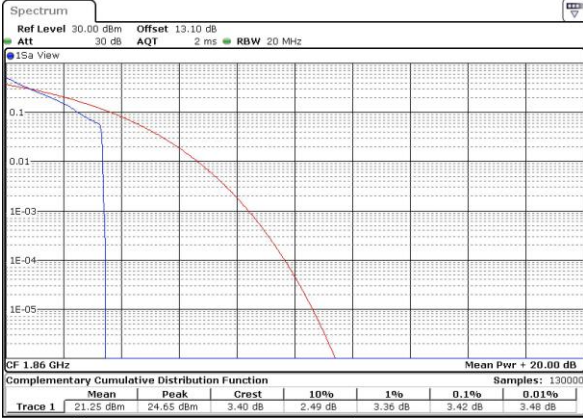
Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.42	4.7	4	5.68	PASS
Middle CH	4.35	4.96	5.01	5.71	
Highest CH	3.33	4.84	5.28	5.65	



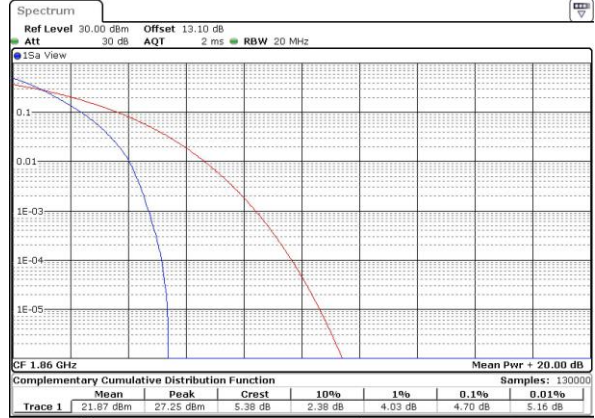
LTE Band 25 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 9 APR 2018 23:10:50

Lowest Channel / Full RB



Date: 9 APR 2018 23:11:00

Middle Channel / 1RB



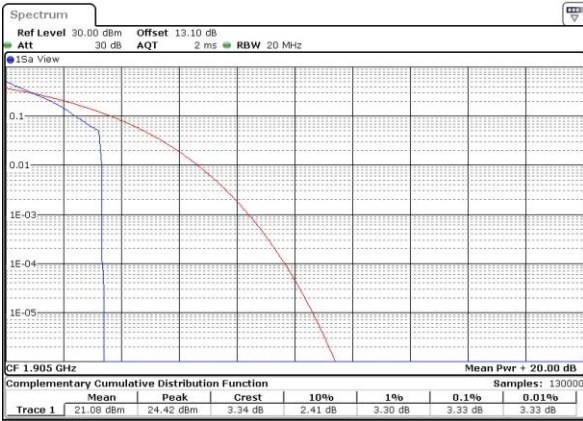
Date: 9 APR 2018 23:11:34

Middle Channel / Full RB



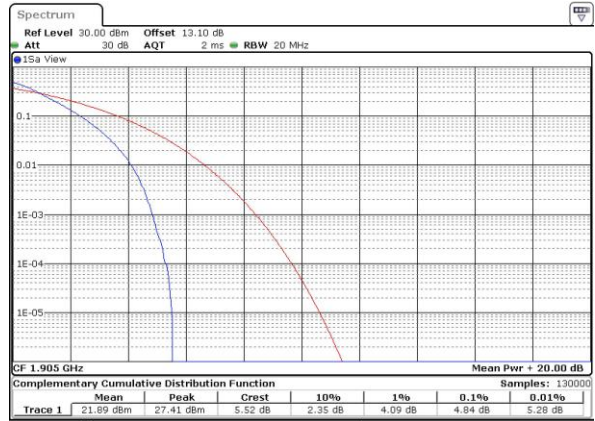
Date: 9 APR 2018 23:11:52

Highest Channel / 1RB



Date: 9 APR 2018 23:13:47

Highest Channel / Full RB



Date: 9 APR 2018 23:14:02



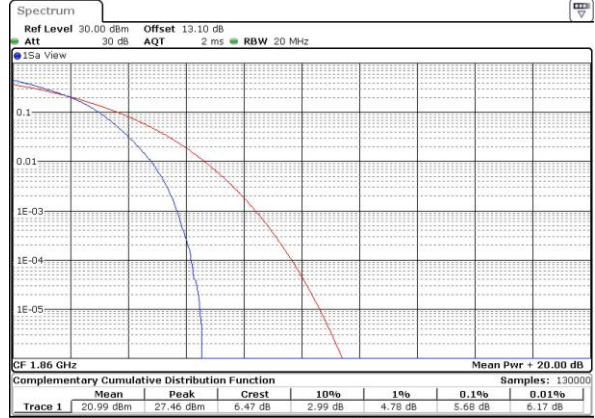
LTE Band 25 / 20MHz / 16QAM

Lowest Channel / 1RB



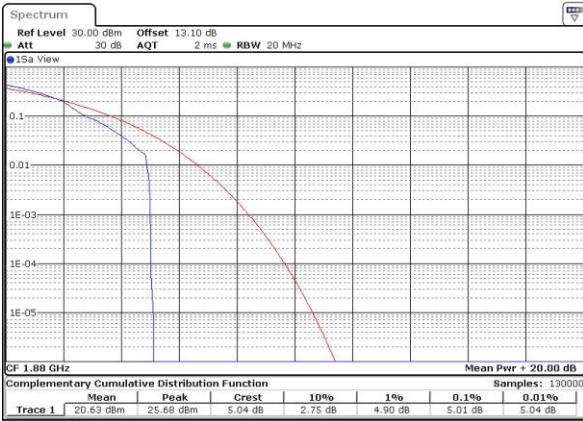
Date: 9 APR 2018 22:58:07

Lowest Channel / Full RB



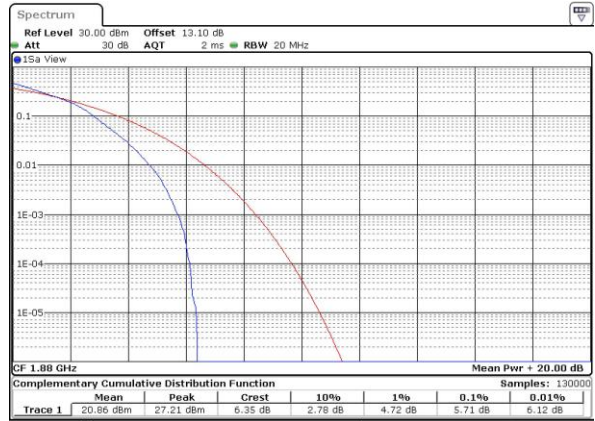
Date: 9 APR 2018 23:00:50

Middle Channel / 1RB



Date: 9 APR 2018 23:11:11

Middle Channel / Full RB



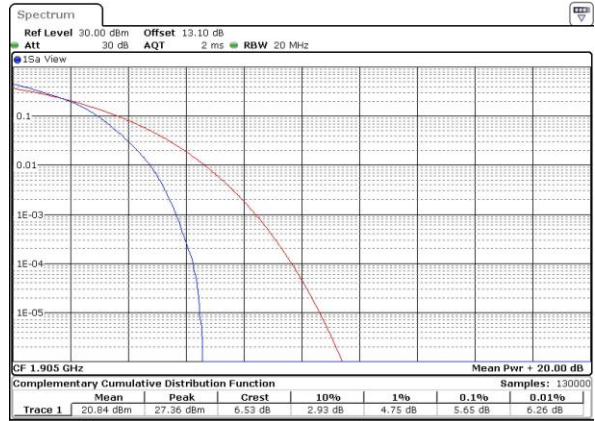
Date: 9 APR 2018 23:11:22

Highest Channel / 1RB



Date: 9 APR 2018 23:13:26

Highest Channel / Full RB



Date: 9 APR 2018 23:13:37



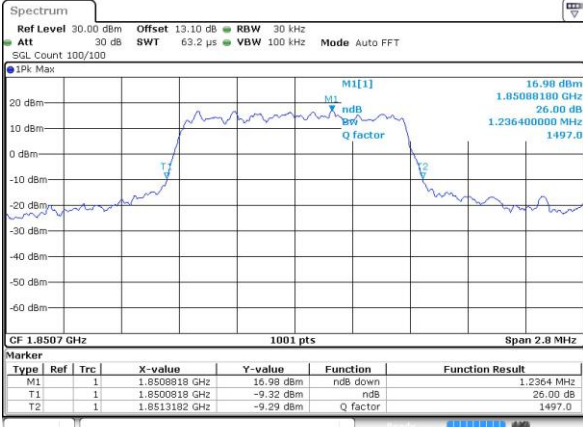
26dB Bandwidth

Mode	LTE Band 25 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.24	1.24	3.02	3.03	4.99	4.97	9.85	9.83	14.27	14.45	20.26	20.02
Middle CH	1.24	1.24	3.02	3.05	4.86	4.94	9.99	9.63	14.75	14.54	20.18	20.26
Highest CH	1.24	1.24	3.01	3.06	4.89	4.77	9.87	9.73	14.69	14.51	20.42	20.26



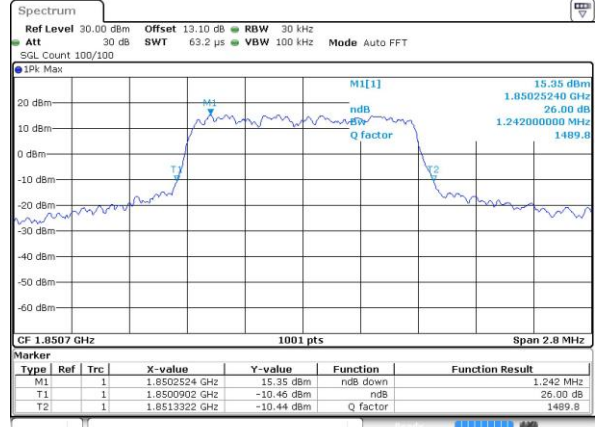
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



Date: 9 APR 2018 22:36:02

Lowest Channel / 1.4MHz / 16QAM



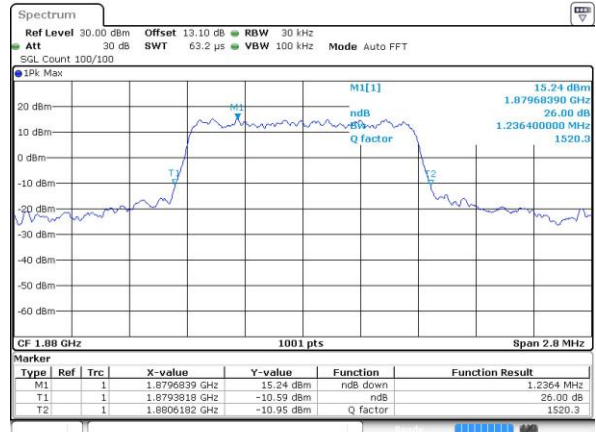
Date: 9 APR 2018 22:36:12

Middle Channel / 1.4MHz / QPSK



Date: 9 APR 2018 22:43:09

Middle Channel / 1.4MHz / 16QAM



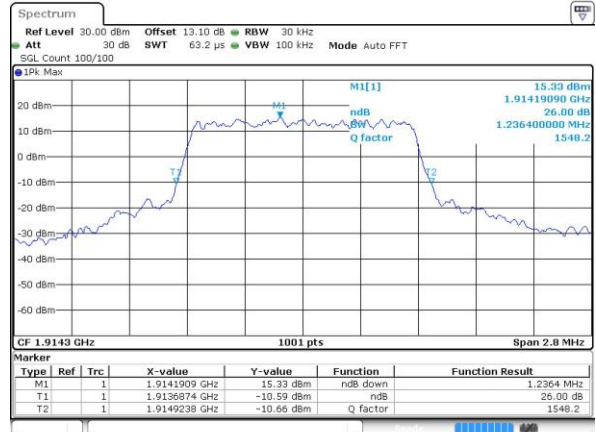
Date: 9 APR 2018 22:43:20

Highest Channel / 1.4MHz / QPSK



Date: 9 APR 2018 22:45:51

Highest Channel / 1.4MHz / 16QAM

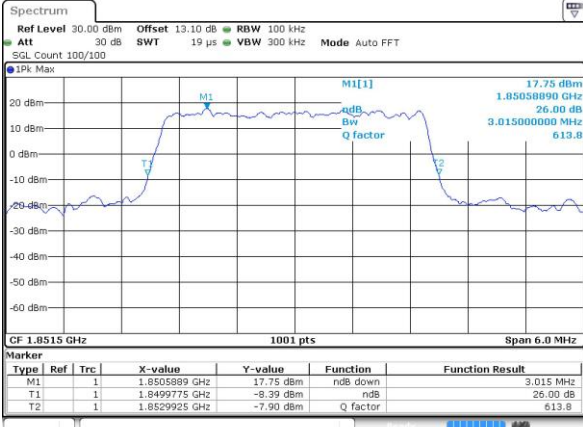


Date: 9 APR 2018 22:45:40



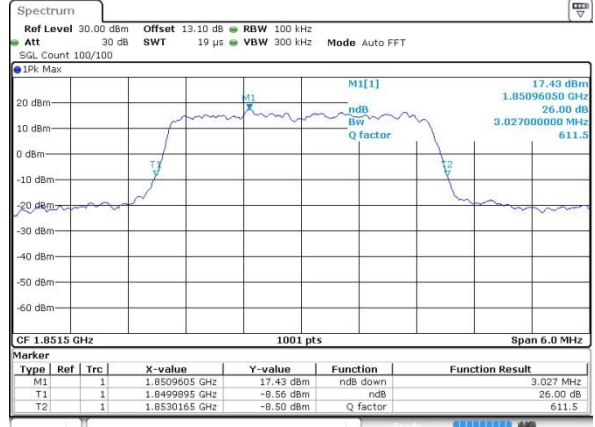
LTE Band 25

Lowest Channel / 3MHz / QPSK



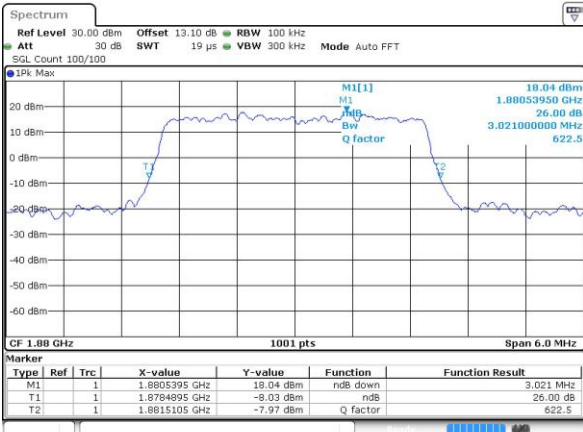
Date: 9 APR 2018 21:10:04

Lowest Channel / 3MHz / 16QAM



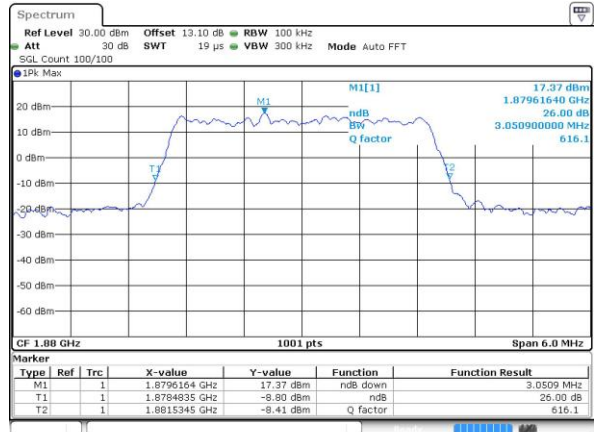
Date: 9 APR 2018 21:10:15

Middle Channel / 3MHz / QPSK



Date: 9 APR 2018 21:17:13

Middle Channel / 3MHz / 16QAM



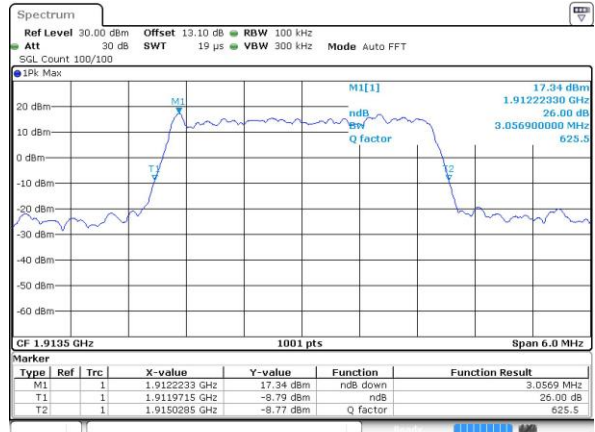
Date: 9 APR 2018 21:17:23

Highest Channel / 3MHz / QPSK



Date: 9 APR 2018 21:19:54

Highest Channel / 3MHz / 16QAM

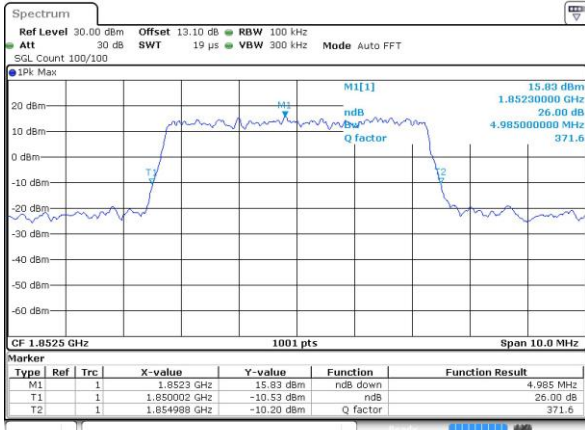


Date: 9 APR 2018 21:19:43



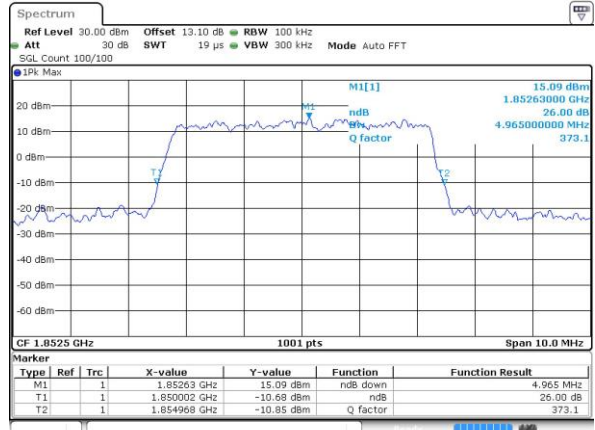
LTE Band 25

Lowest Channel / 5MHz / QPSK



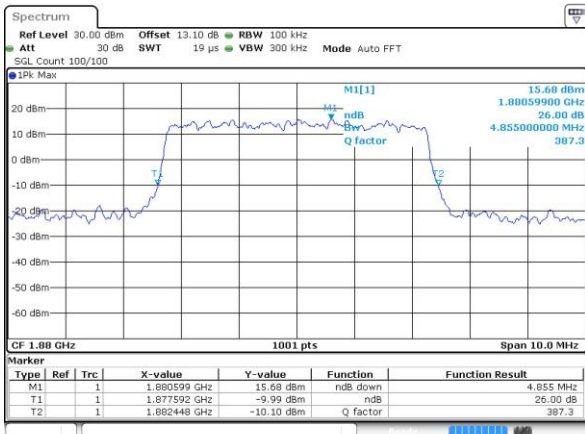
Date: 9 APR 2018 21:26:52

Lowest Channel / 5MHz / 16QAM



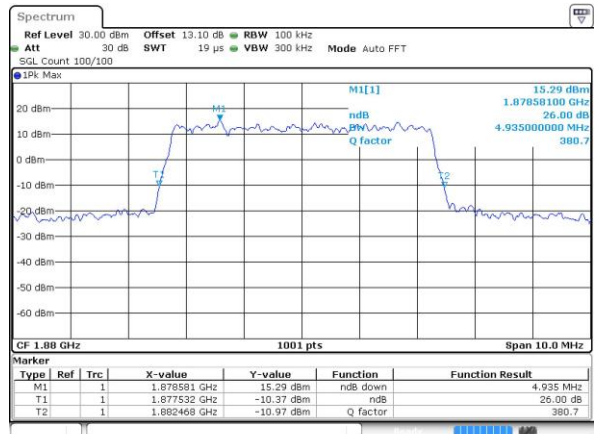
Date: 9 APR 2018 21:27:02

Middle Channel / 5MHz / QPSK



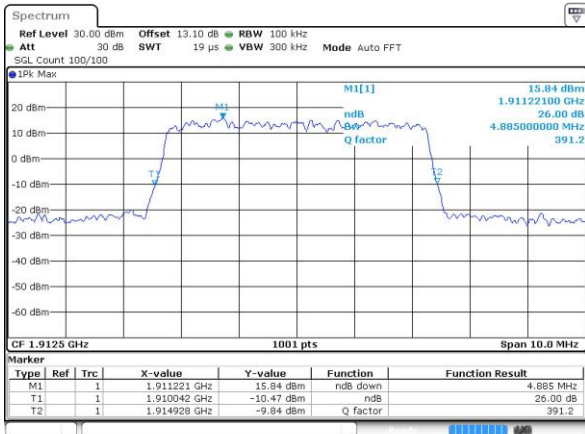
Date: 9 APR 2018 21:34:00

Middle Channel / 5MHz / 16QAM



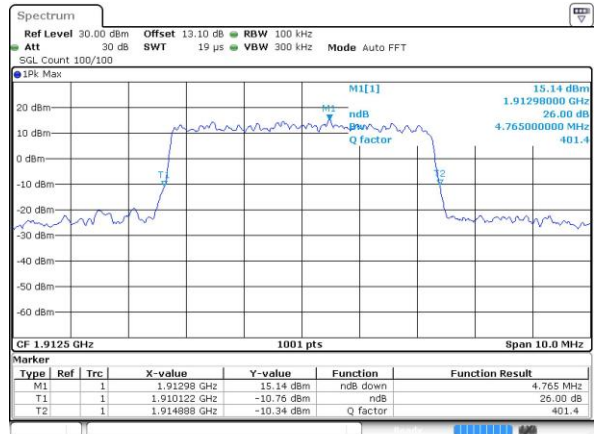
Date: 9 APR 2018 21:34:10

Highest Channel / 5MHz / QPSK



Date: 9 APR 2018 21:36:41

Highest Channel / 5MHz / 16QAM

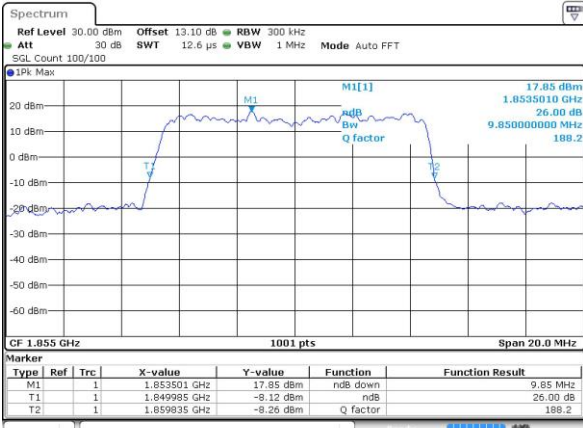


Date: 9 APR 2018 21:36:31



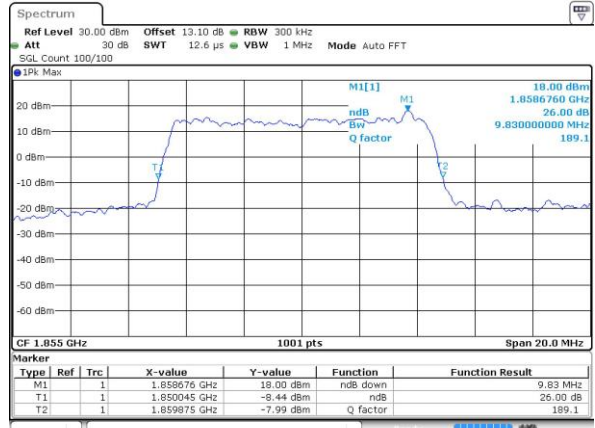
LTE Band 25

Lowest Channel / 10MHz / QPSK



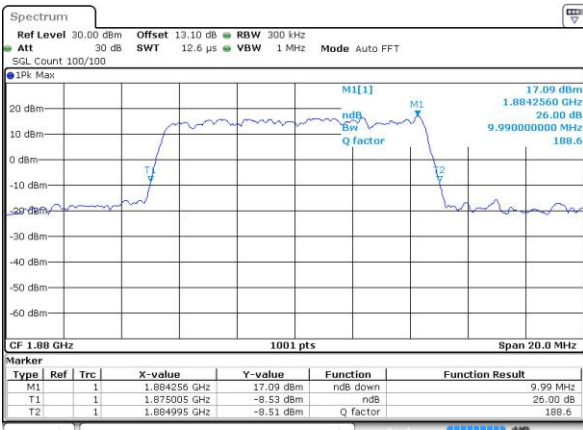
Date: 9 APR 2018 21:43:39

Lowest Channel / 10MHz / 16QAM



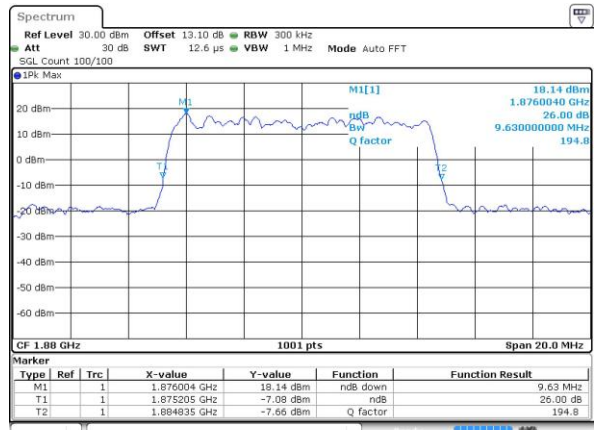
Date: 9 APR 2018 21:43:49

Middle Channel / 10MHz / QPSK



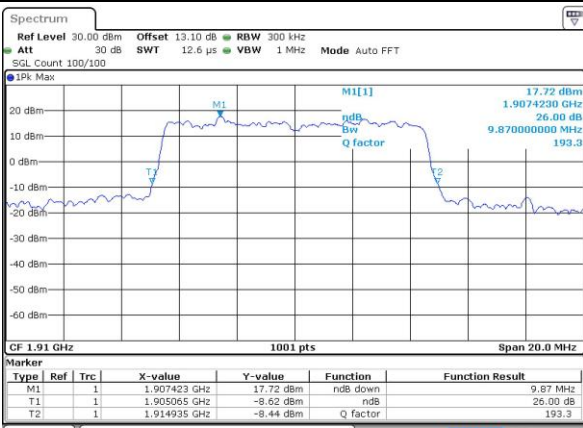
Date: 9 APR 2018 21:50:46

Middle Channel / 10MHz / 16QAM



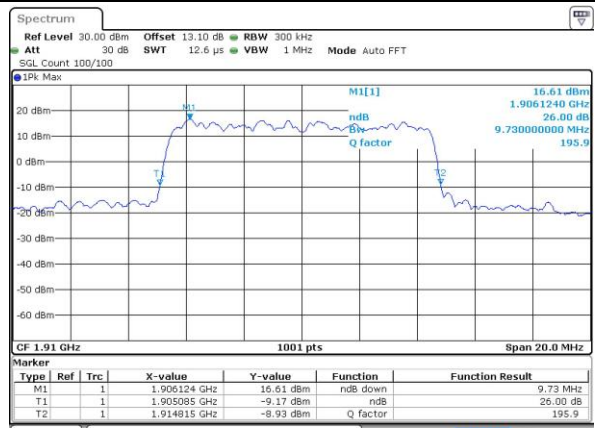
Date: 9 APR 2018 21:50:57

Highest Channel / 10MHz / QPSK



Date: 9 APR 2018 21:53:28

Highest Channel / 10MHz / 16QAM

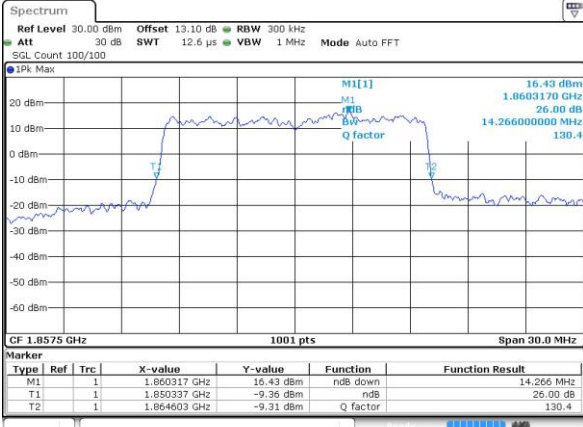


Date: 9 APR 2018 21:53:17

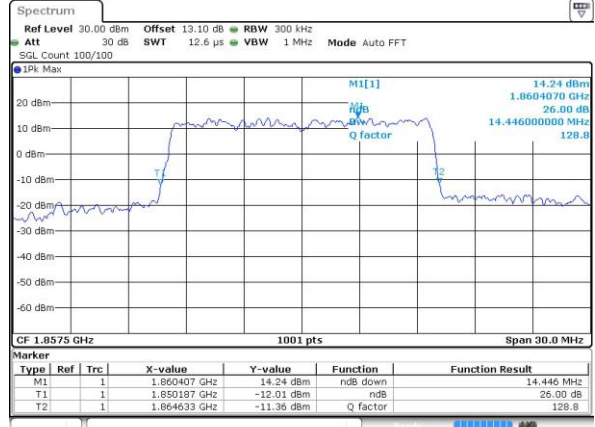


LTE Band 25

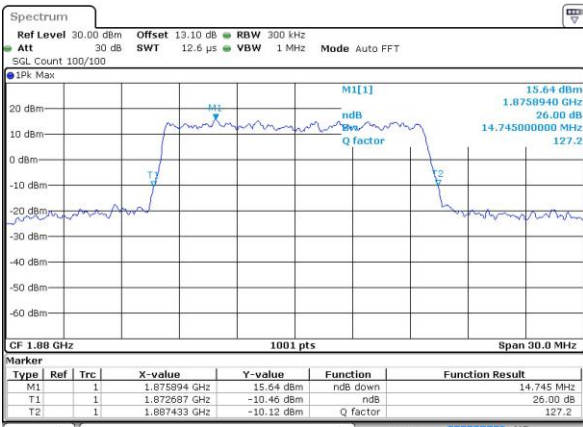
Lowest Channel / 15MHz / QPSK



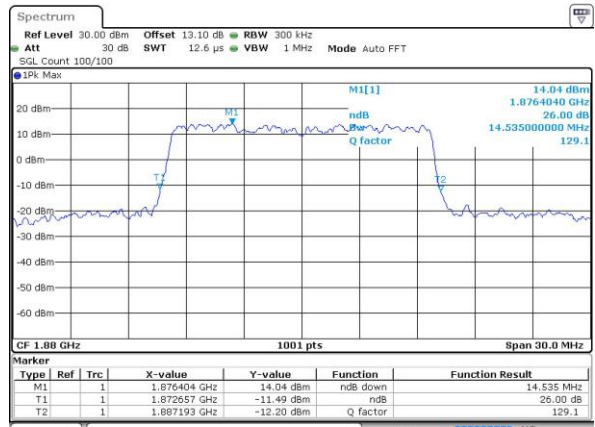
Lowest Channel / 15MHz / 16QAM



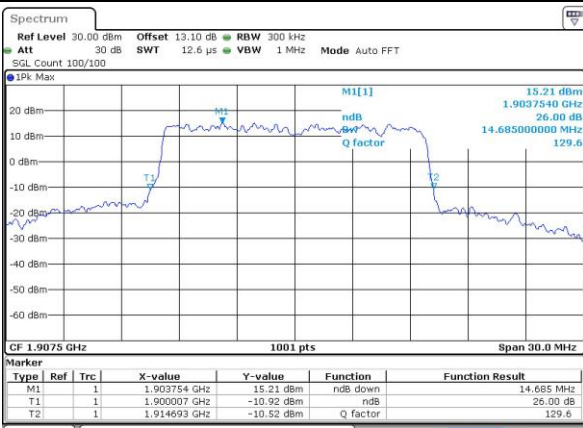
Middle Channel / 15MHz / QPSK



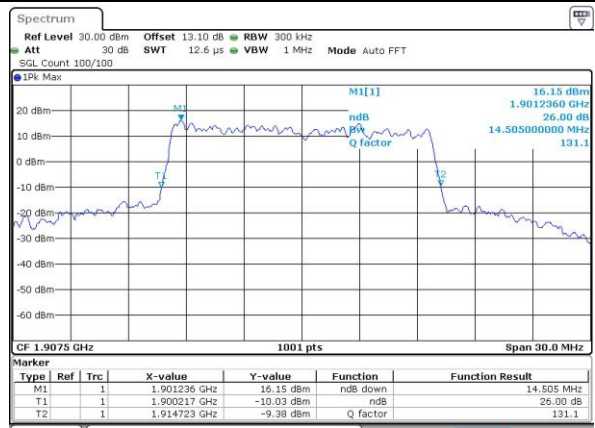
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



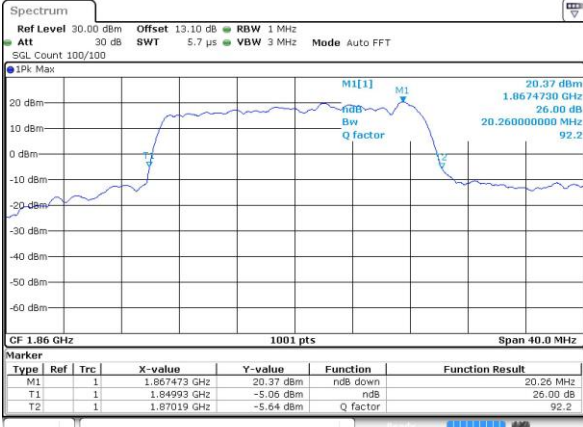
Highest Channel / 15MHz / 16QAM





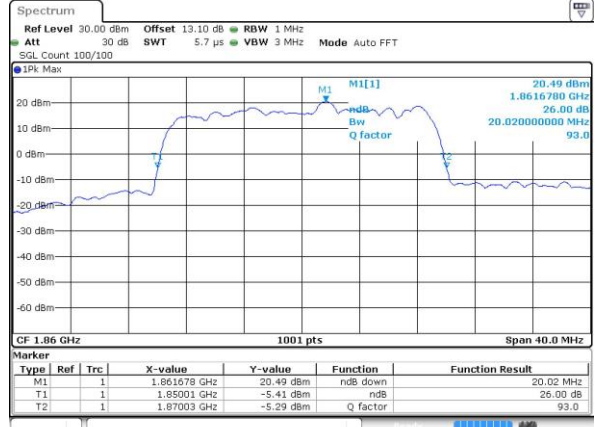
LTE Band 25

Lowest Channel / 20MHz / QPSK



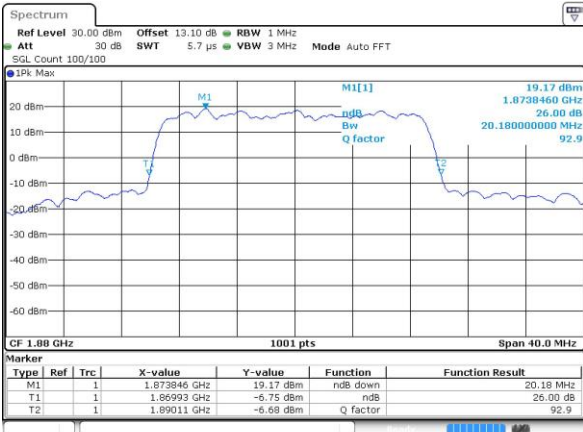
Date: 9 APR 2018 22:17:11

Lowest Channel / 20MHz / 16QAM



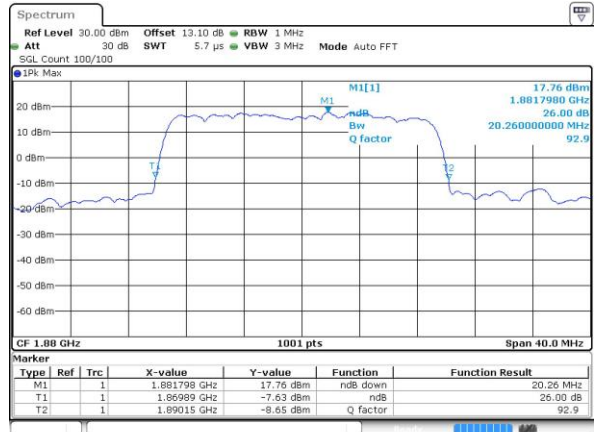
Date: 9 APR 2018 22:17:22

Middle Channel / 20MHz / QPSK



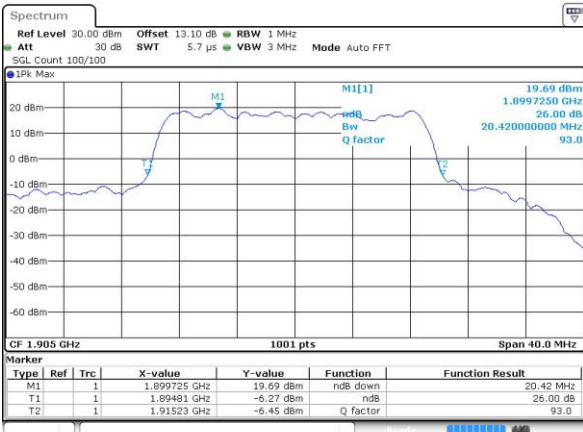
Date: 9 APR 2018 22:24:20

Middle Channel / 20MHz / 16QAM



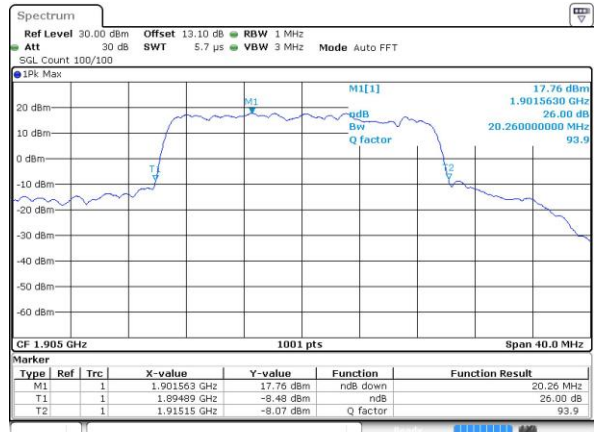
Date: 9 APR 2018 22:24:30

Highest Channel / 20MHz / QPSK



Date: 9 APR 2018 22:27:01

Highest Channel / 20MHz / 16QAM



Date: 9 APR 2018 22:26:50



Occupied Bandwidth

Mode	LTE Band 25 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.1	2.72	2.71	4.49	4.5	9.07	9.01	13.43	13.49	18.5	18.46
Middle CH	1.09	1.08	2.73	2.72	4.51	4.5	9.05	9.01	13.4	13.52	18.58	18.46
Highest CH	1.09	1.09	2.72	2.72	4.5	4.5	9.07	9.07	13.46	13.37	18.42	18.34