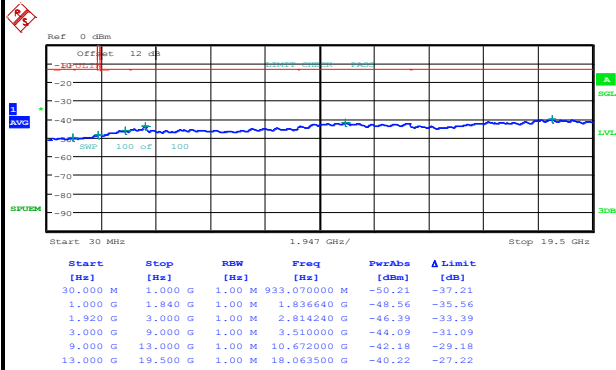




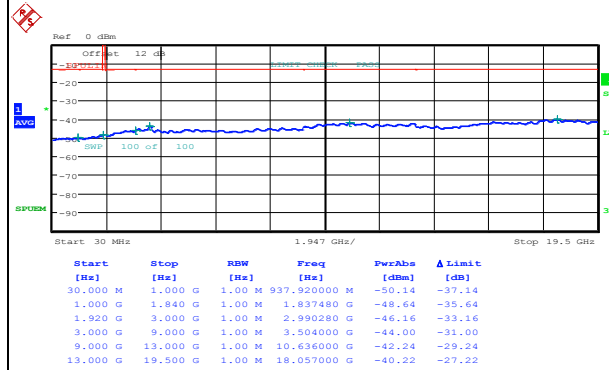
LTE Band 2 / 5MHz

Lowest Channel / QPSK



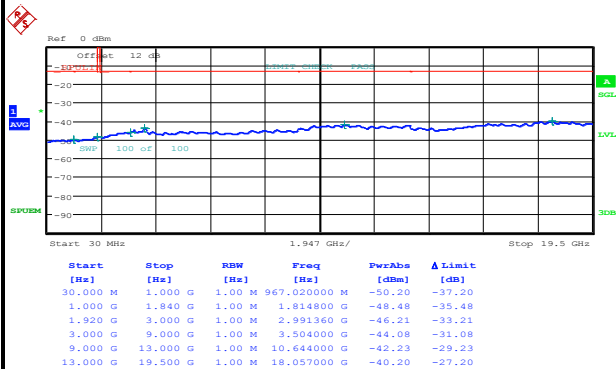
Date: 12.JAN.2015 14:29:20

Lowest Channel / 16QAM



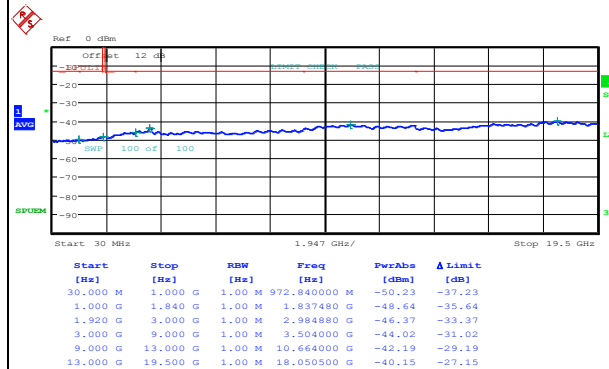
Date: 12.JAN.2015 14:30:30

Middle Channel / QPSK



Date: 12.JAN.2015 14:32:27

Middle Channel / 16QAM

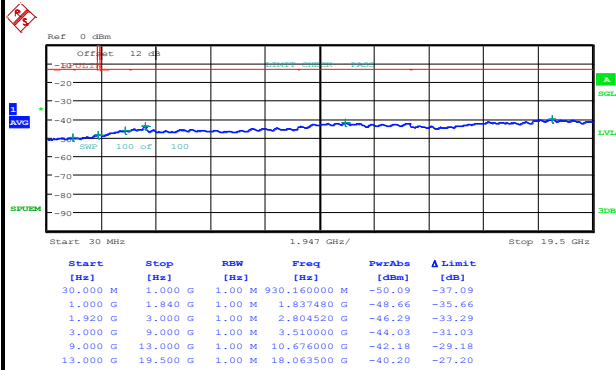


Date: 12.JAN.2015 14:33:36



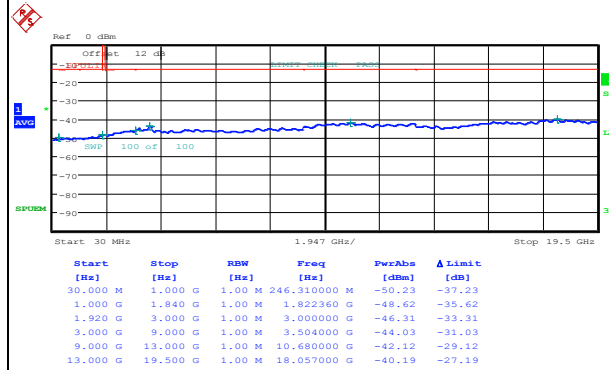
LTE Band 2 / 5MHz

Highest Channel / QPSK



Date: 12.JAN.2015 14:40:13

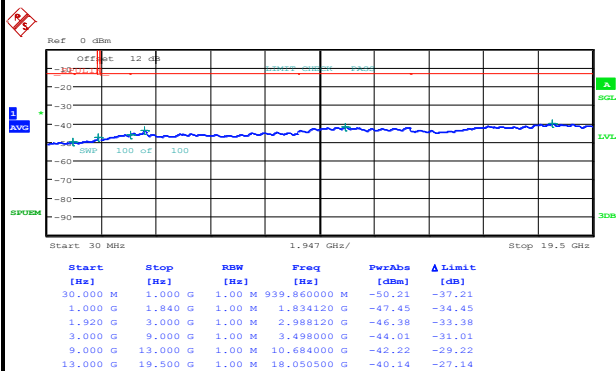
Highest Channel / 16QAM



Date: 12.JAN.2015 14:41:24

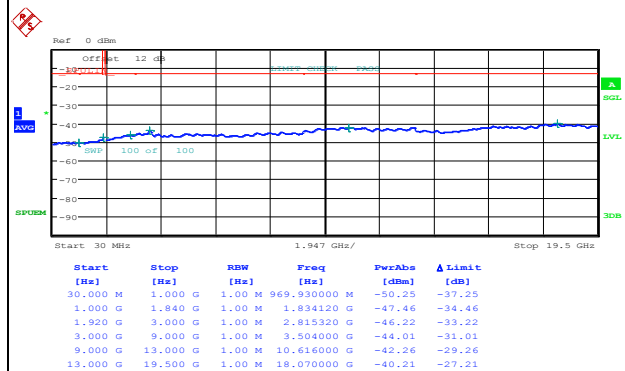
LTE Band 2 / 10MHz

Lowest Channel / QPSK



Date: 12.JAN.2015 14:50:21

Lowest Channel / 16QAM

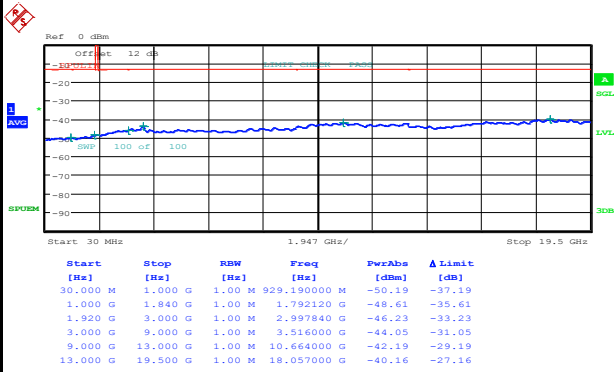


Date: 12.JAN.2015 14:51:32



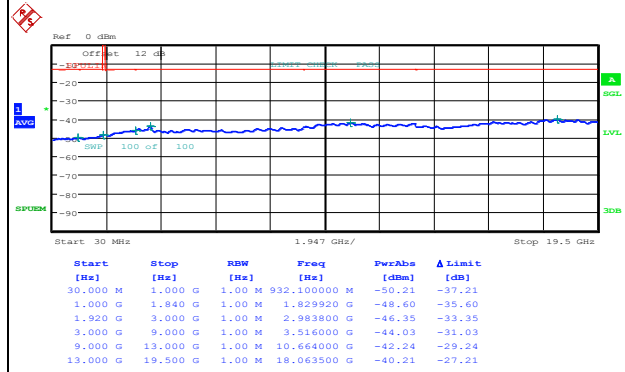
LTE Band 2 / 10MHz

Middle Channel / QPSK



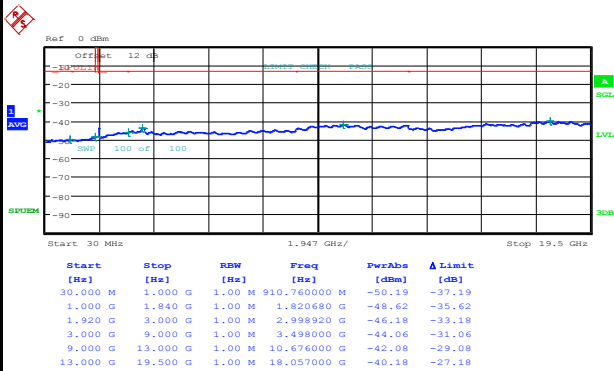
Date: 12.JAN.2015 14:53:29

Middle Channel / 16QAM



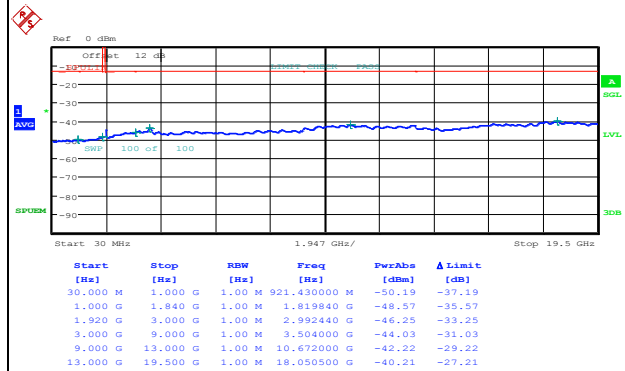
Date: 12.JAN.2015 14:54:39

Highest Channel / QPSK



Date: 12.JAN.2015 15:01:15

Highest Channel / 16QAM

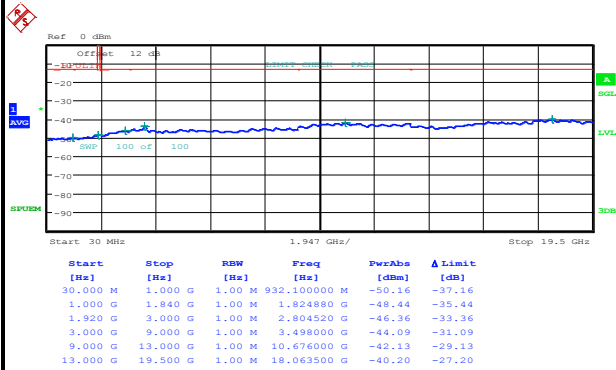


Date: 12.JAN.2015 15:02:26



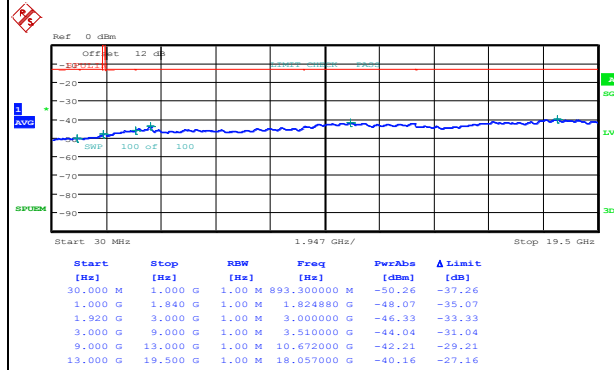
LTE Band 2 / 15MHz

Lowest Channel / QPSK



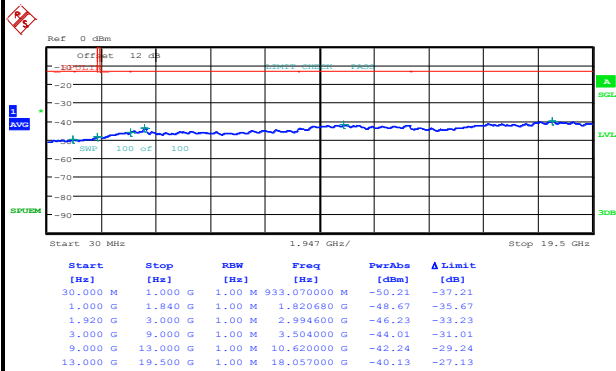
Date: 12.JAN.2015 15:11:05

Lowest Channel / 16QAM



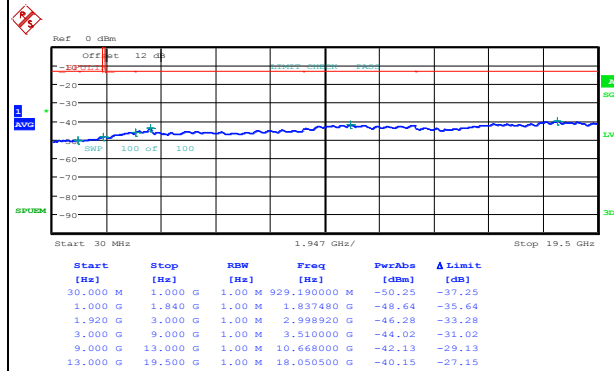
Date: 12.JAN.2015 15:12:16

Middle Channel / QPSK



Date: 12.JAN.2015 15:14:13

Middle Channel / 16QAM

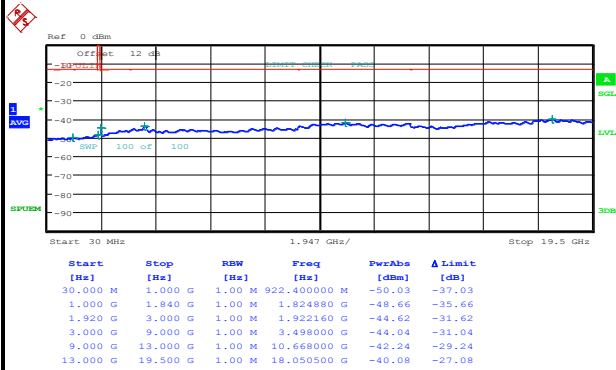


Date: 12.JAN.2015 15:15:23



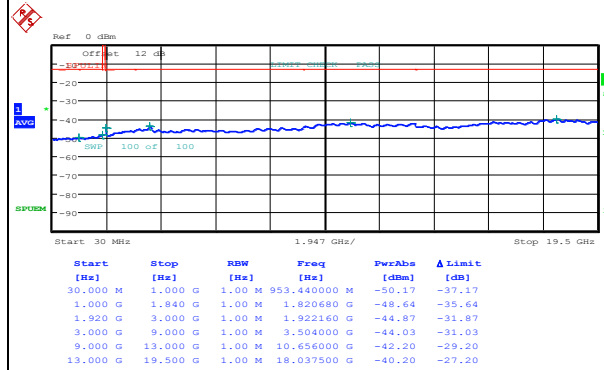
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 12.JAN.2015 15:22:00

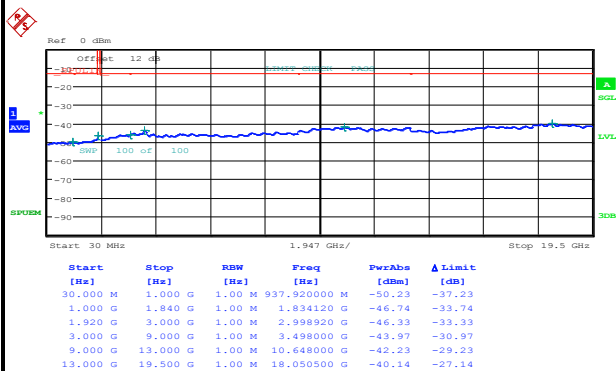
Highest Channel / 16QAM



Date: 12.JAN.2015 15:23:12

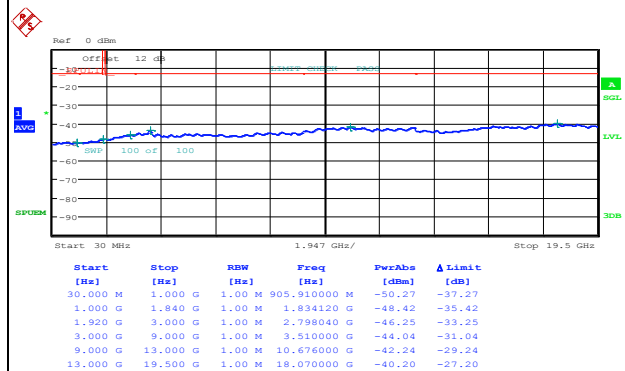
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 12.JAN.2015 15:29:53

Lowest Channel / 16QAM

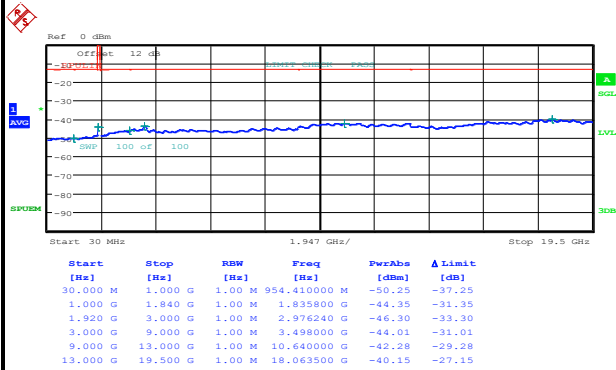


Date: 12.JAN.2015 15:31:02



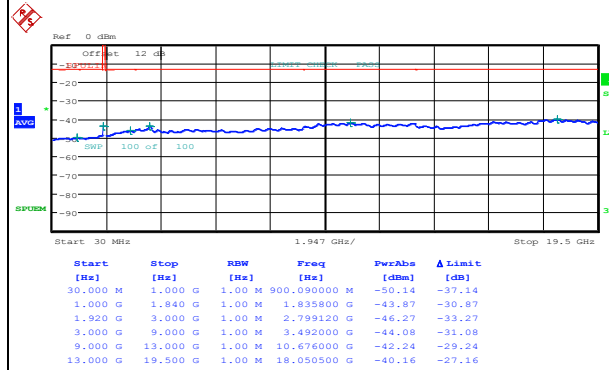
LTE Band 2 / 20MHz

Middle Channel / QPSK



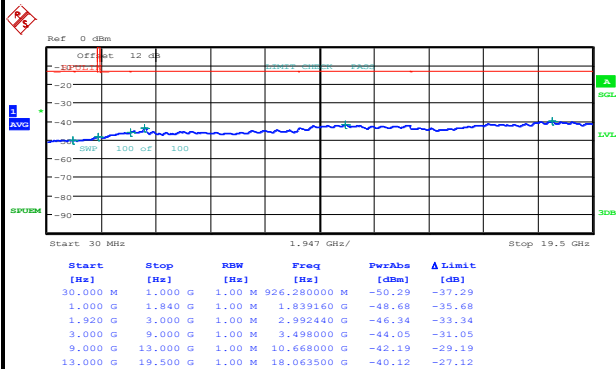
Date: 12.JAN.2015 15:32:59

Middle Channel / 16QAM



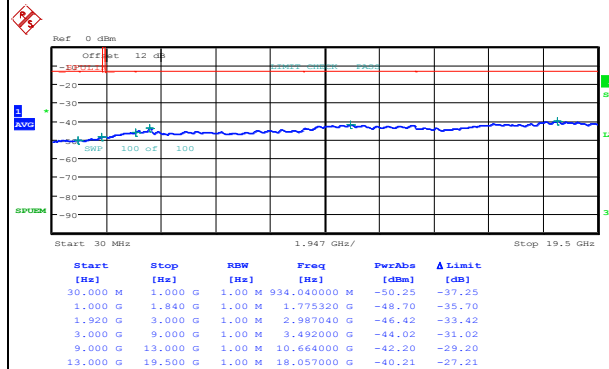
Date: 12.JAN.2015 15:34:09

Highest Channel / QPSK



Date: 12.JAN.2015 15:40:45

Highest Channel / 16QAM



Date: 12.JAN.2015 16:31:28

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.1 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 4

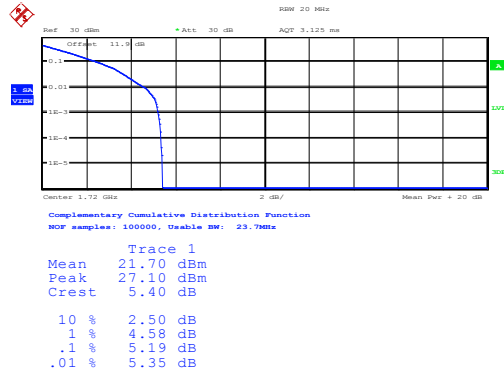
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	5.19	5.45	6.12	6.28	PASS
Middle CH	4.49	5.58	5.64	6.19	
Highest CH	4.58	5.77	5.74	6.41	

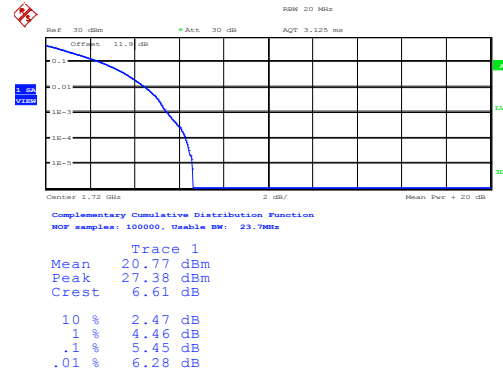


LTE Band 4 / 20MHz / QPSK

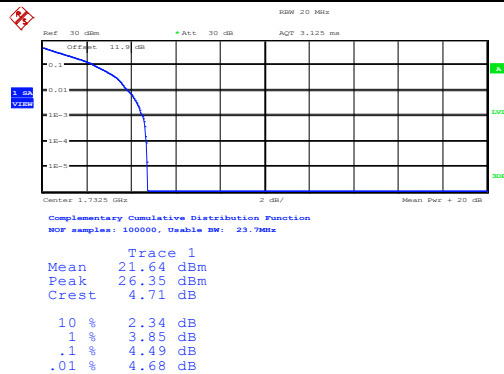
Lowest Channel / 1RB



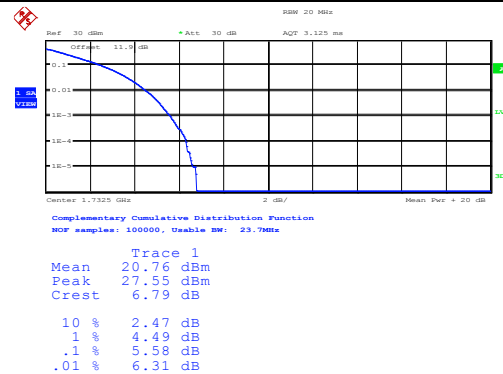
Lowest Channel / Full RB



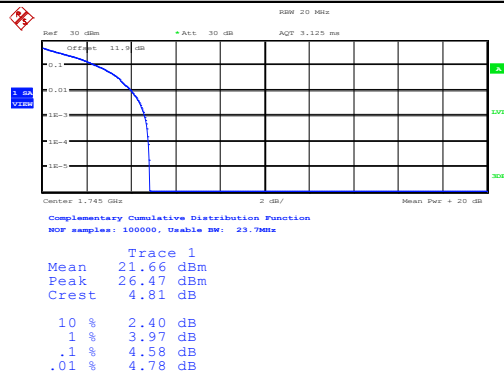
Middle Channel / 1RB



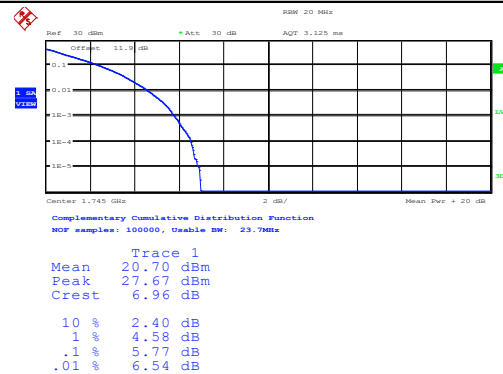
Middle Channel / Full RB

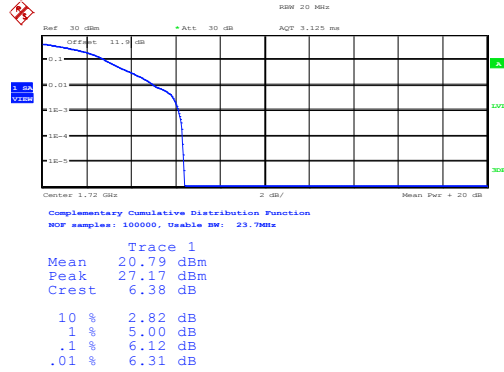


Highest Channel / 1RB

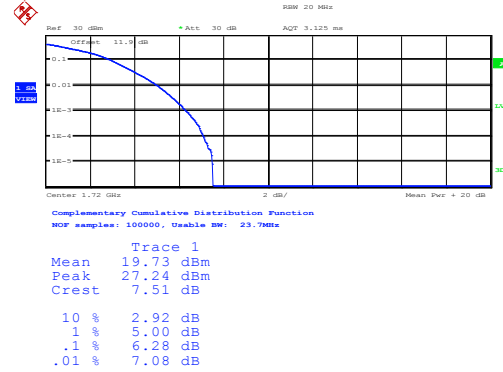


Highest Channel / Full RB

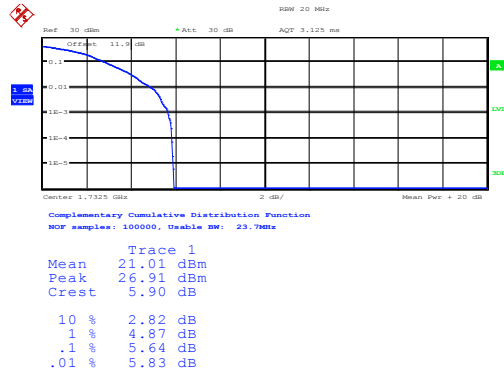


LTE Band 4 / 20MHz / 16QAM
Lowest Channel / 1RB


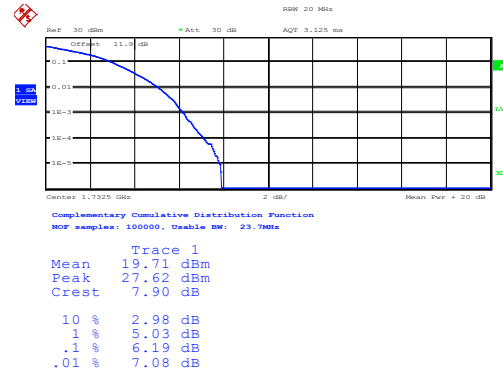
Date: 13.JAN.2015 22:43:03

Lowest Channel / Full RB


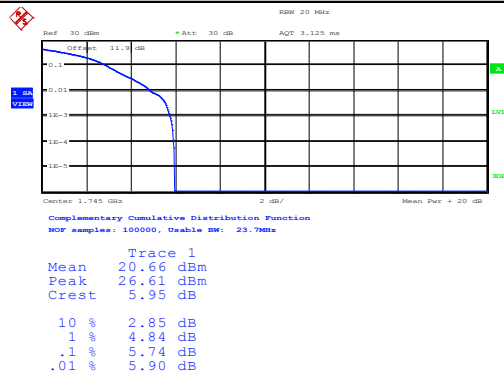
Date: 13.JAN.2015 22:43:17

Middle Channel / 1RB


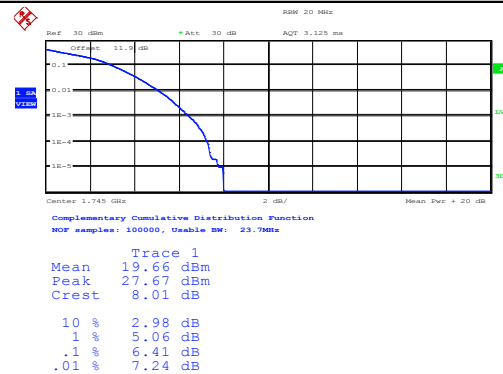
Date: 13.JAN.2015 22:43:30

Middle Channel / Full RB


Date: 13.JAN.2015 22:43:43

Highest Channel / 1RB


Date: 13.JAN.2015 22:43:55

Highest Channel / Full RB


Date: 13.JAN.2015 22:45:45



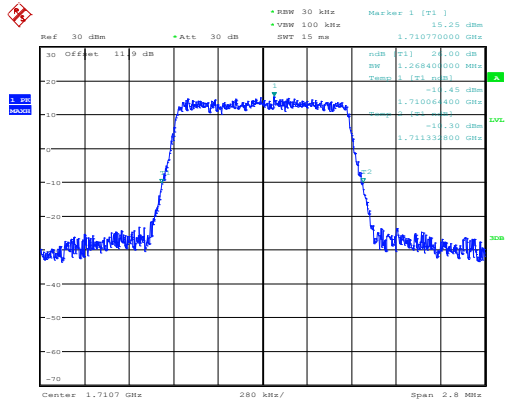
26dB Bandwidth

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	1.27	1.27	2.99	3	4.95	4.97	10.06	10	14.73	14.7	21.04	20.88
Middle CH	1.27	1.27	3.02	3.02	5	5.05	10.18	10.06	14.76	14.73	21.12	21.04
Highest CH	1.27	1.27	3.01	3.02	5	4.99	10.06	10.04	14.88	14.85	21.12	21.08



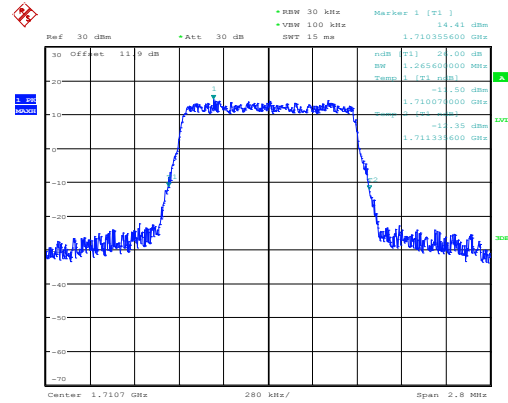
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



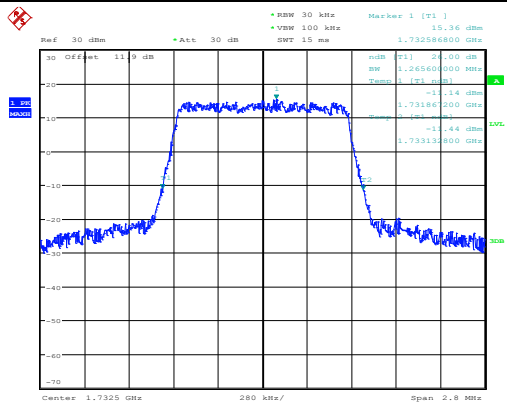
Date: 13.JAN.2015 22:22:45

Lowest Channel / 1.4MHz / 16QAM



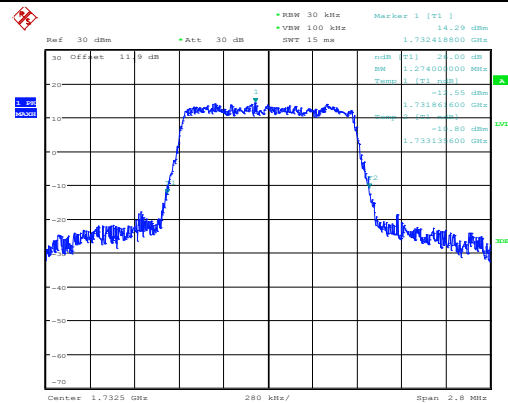
Date: 13.JAN.2015 22:22:58

Middle Channel / 1.4MHz / QPSK



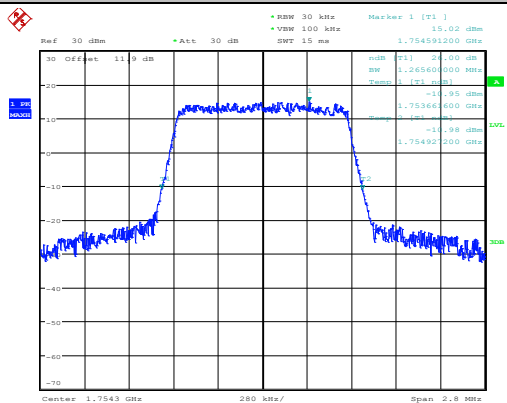
Date: 13.JAN.2015 22:33:35

Middle Channel / 1.4MHz / 16QAM



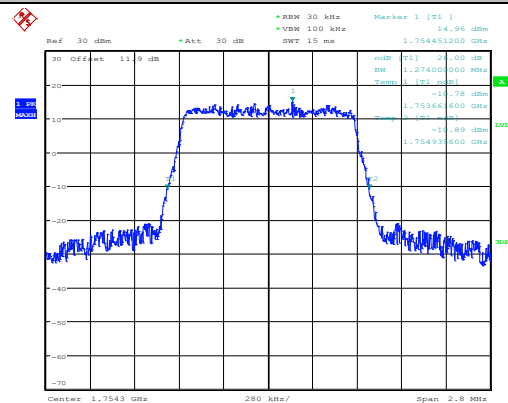
Date: 13.JAN.2015 22:33:48

Highest Channel / 1.4MHz / QPSK



Date: 13.JAN.2015 22:33:44

Highest Channel / 1.4MHz / 16QAM

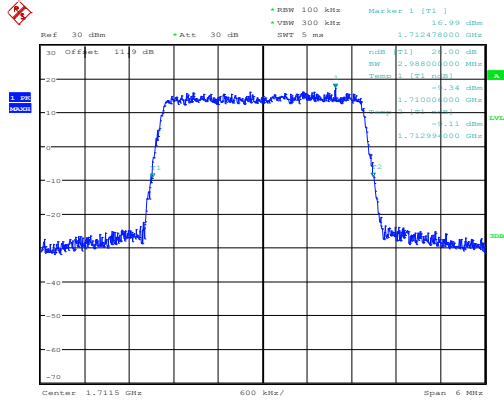


Date: 13.JAN.2015 22:33:57

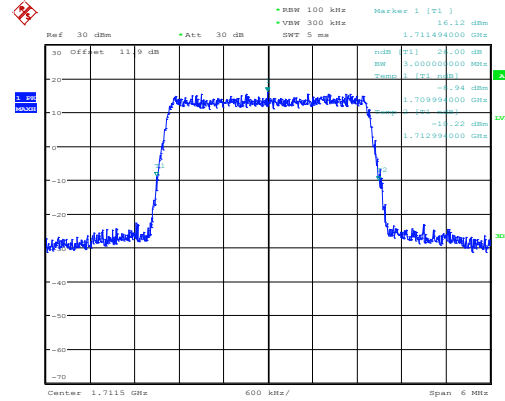


LTE Band 4

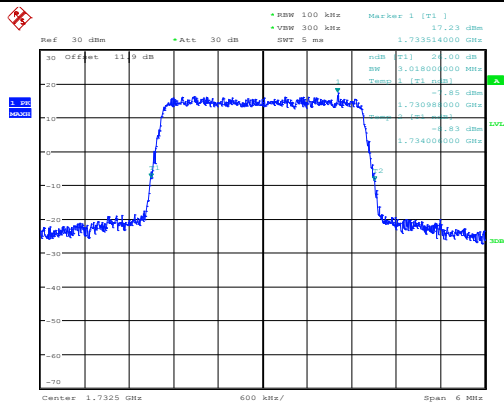
Lowest Channel / 3MHz / QPSK



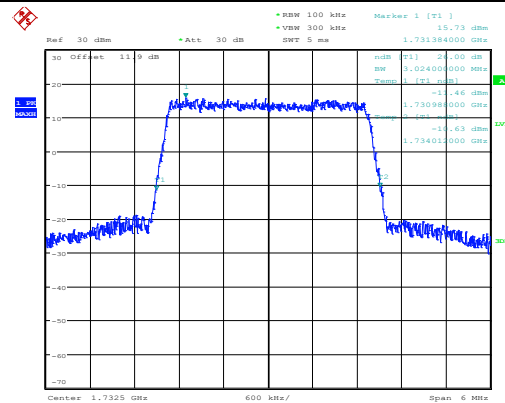
Lowest Channel / 3MHz / 16QAM



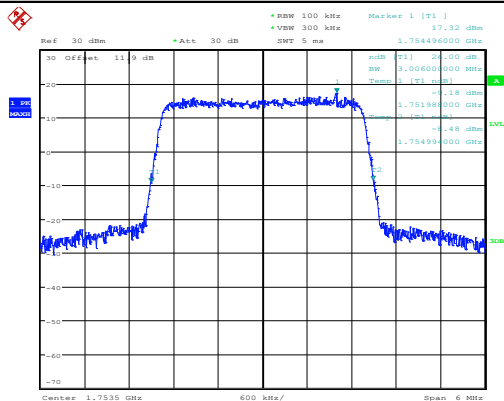
Middle Channel / 3MHz / QPSK



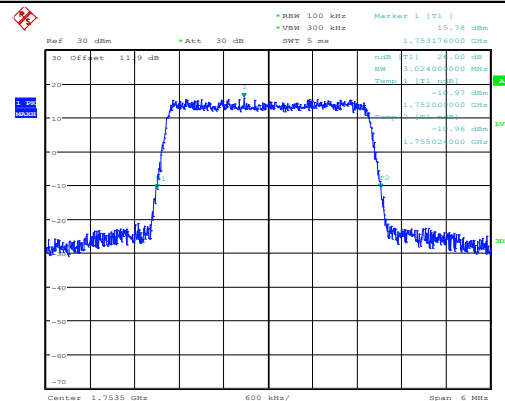
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



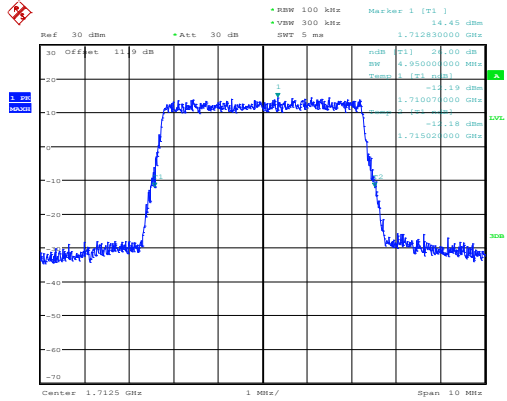
Highest Channel / 3MHz / 16QAM



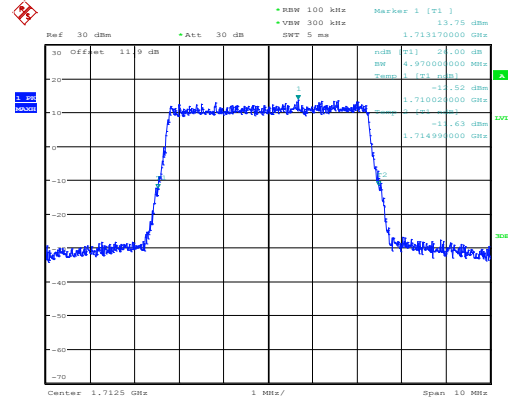


LTE Band 4

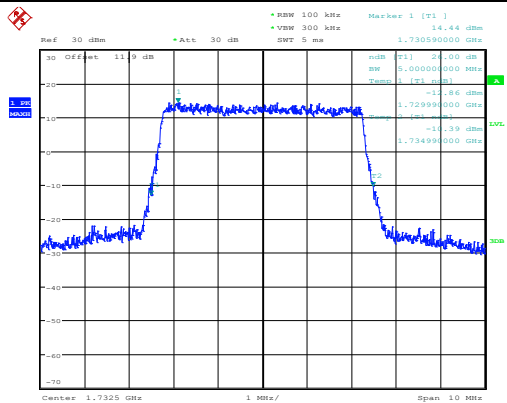
Lowest Channel / 5MHz / QPSK



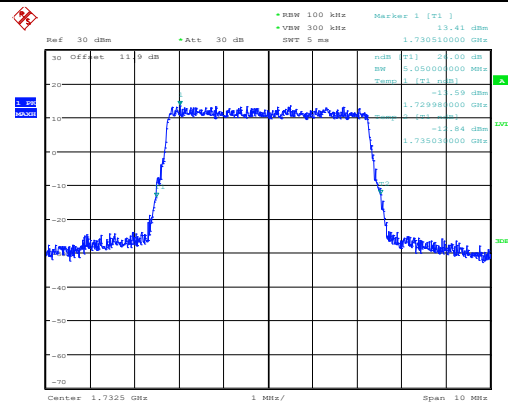
Lowest Channel / 5MHz / 16QAM



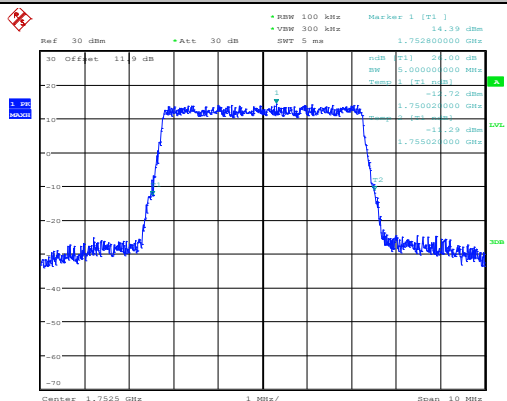
Middle Channel / 5MHz / QPSK



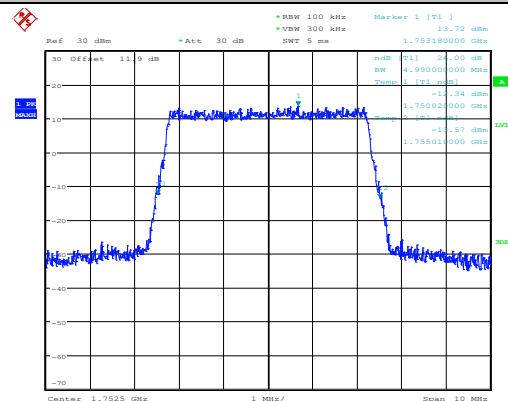
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

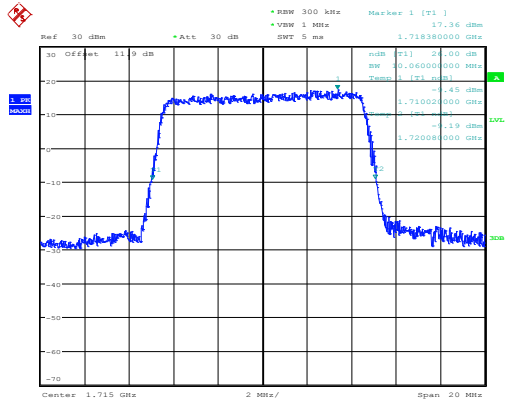


Highest Channel / 5MHz / 16QAM



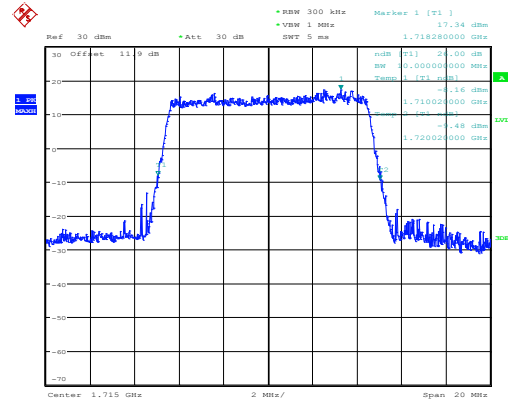
LTE Band 4

Lowest Channel / 10MHz / QPSK



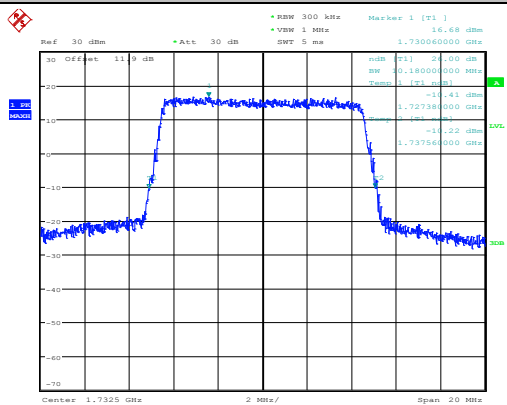
Date: 13.JAN.2015 10:06:03

Lowest Channel / 10MHz / 16QAM



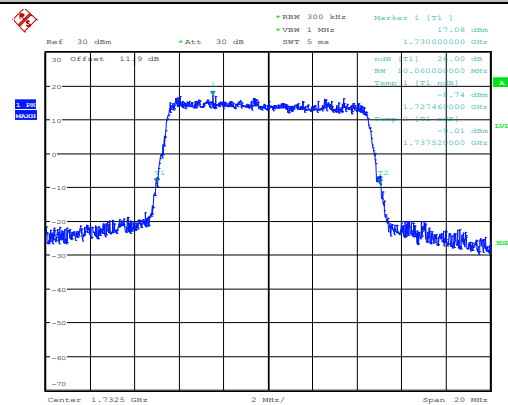
Date: 13.JAN.2015 10:06:16

Middle Channel / 10MHz / QPSK



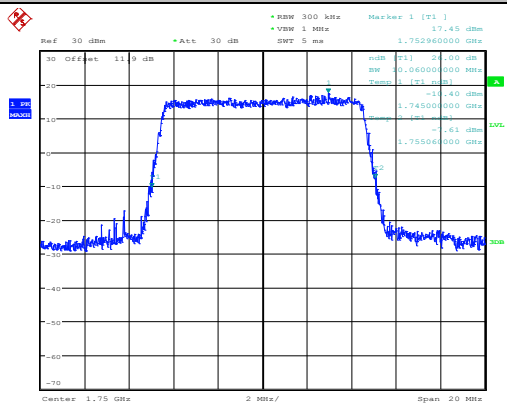
Date: 13.JAN.2015 10:13:50

Middle Channel / 10MHz / 16QAM



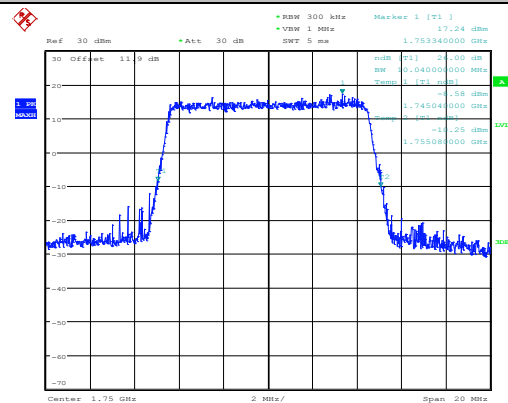
Date: 13.JAN.2015 10:14:03

Highest Channel / 10MHz / QPSK



Date: 13.JAN.2015 10:16:57

Highest Channel / 10MHz / 16QAM

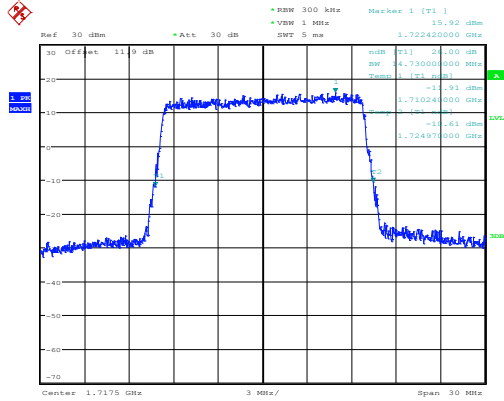


Date: 13.JAN.2015 10:17:10



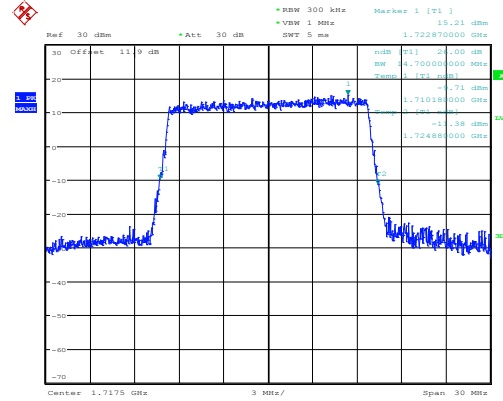
LTE Band 4

Lowest Channel / 15MHz / QPSK



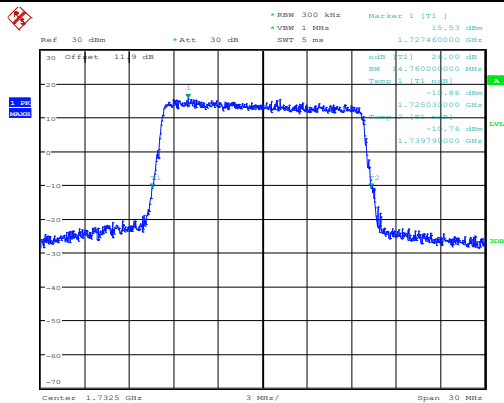
Date: 13.JAN.2015 10:25:04

Lowest Channel / 15MHz / 16QAM



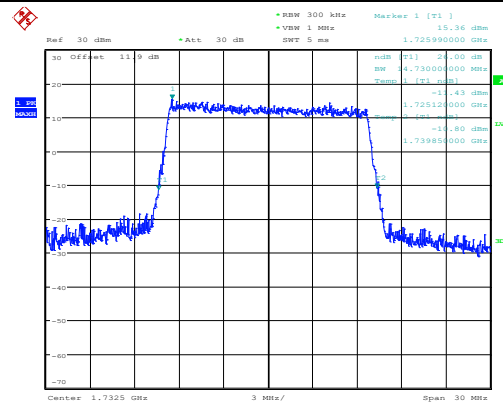
Date: 13.JAN.2015 10:25:17

Middle Channel / 15MHz / QPSK



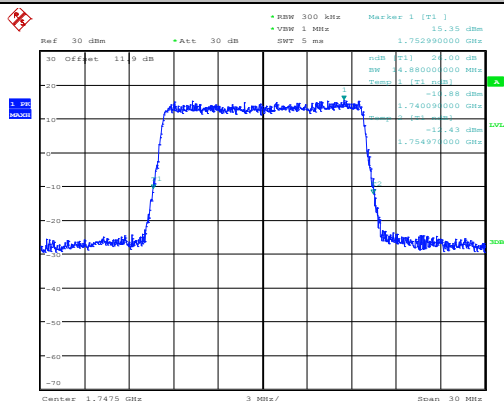
Date: 13.JAN.2015 10:32:51

Middle Channel / 15MHz / 16QAM



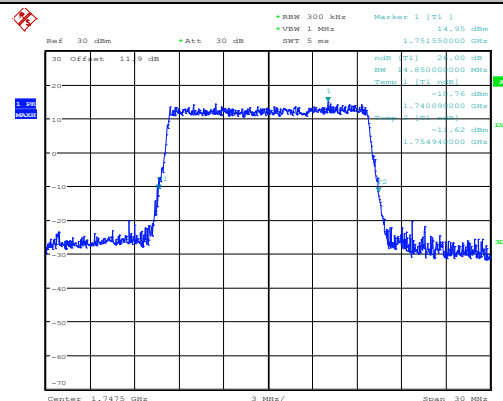
Date: 13.JAN.2015 10:33:04

Highest Channel / 15MHz / QPSK



Date: 13.JAN.2015 10:36:00

Highest Channel / 15MHz / 16QAM

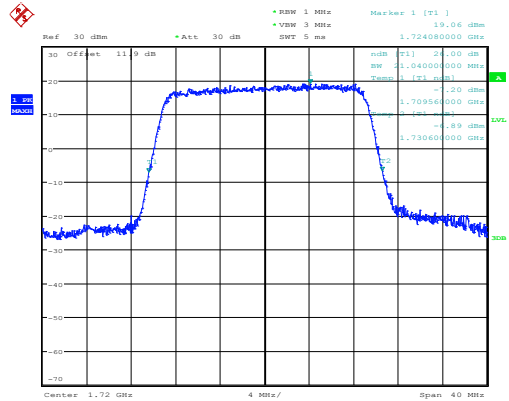


Date: 13.JAN.2015 10:36:13



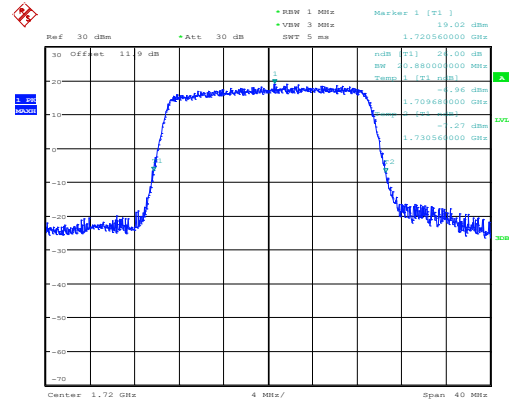
LTE Band 4

Lowest Channel / 20MHz / QPSK



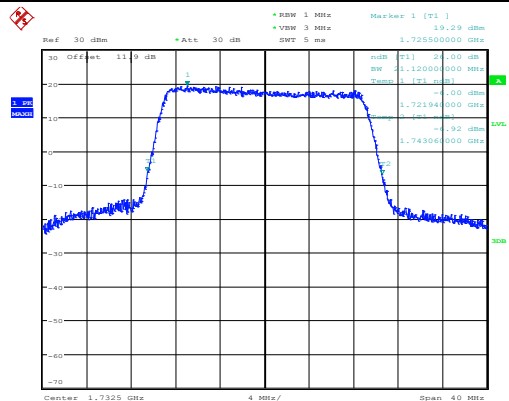
Date: 13.JAN.2015 10:52:01

Lowest Channel / 20MHz / 16QAM



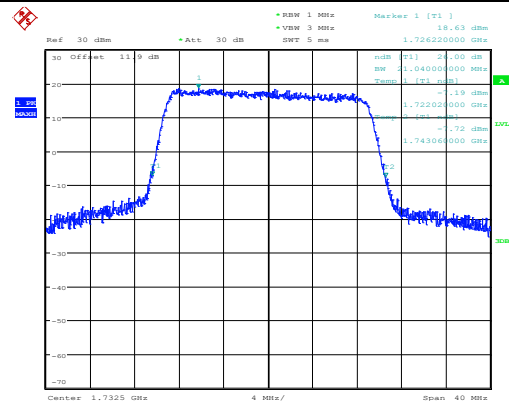
Date: 13.JAN.2015 10:52:14

Middle Channel / 20MHz / QPSK



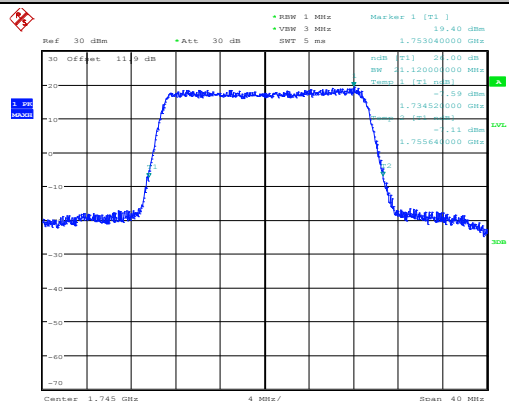
Date: 13.JAN.2015 10:59:47

Middle Channel / 20MHz / 16QAM



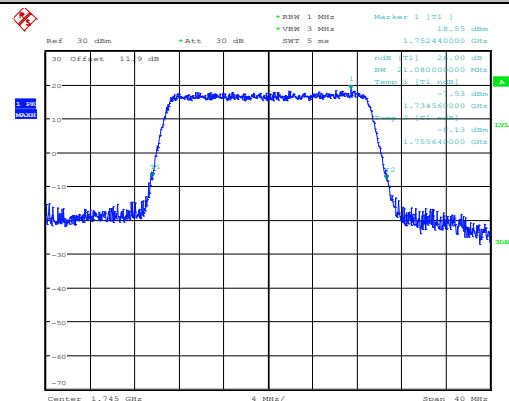
Date: 13.JAN.2015 11:00:00

Highest Channel / 20MHz / QPSK



Date: 13.JAN.2015 11:02:54

Highest Channel / 20MHz / 16QAM



Date: 13.JAN.2015 11:03:07



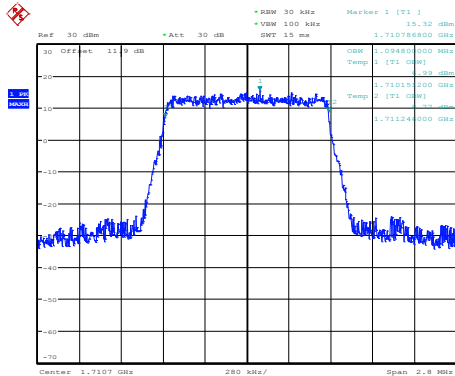
Occupied Bandwidth

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.1	2.72	2.72	4.51	4.51	9.08	9.04	13.47	13.47	18.44	18.44
Middle CH	1.09	1.1	2.72	2.72	4.51	4.5	9.06	9.04	13.5	13.53	18.56	18.56
Highest CH	1.09	1.1	2.72	2.72	4.52	4.51	9.08	9.04	13.5	13.5	18.6	18.64



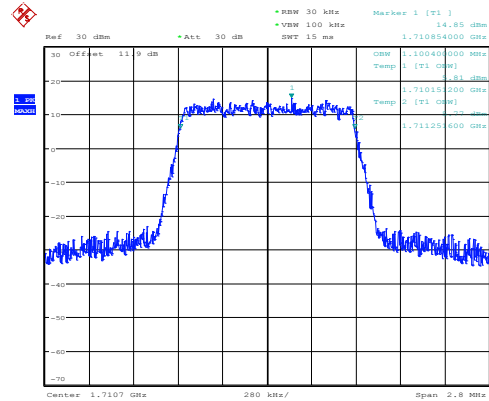
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



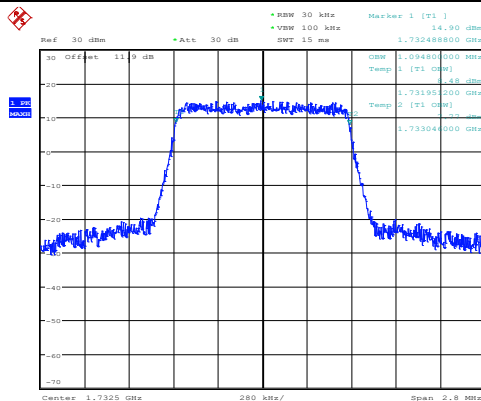
Date: 14.JAN.2015 13:57:11

Lowest Channel / 1.4MHz / 16QAM



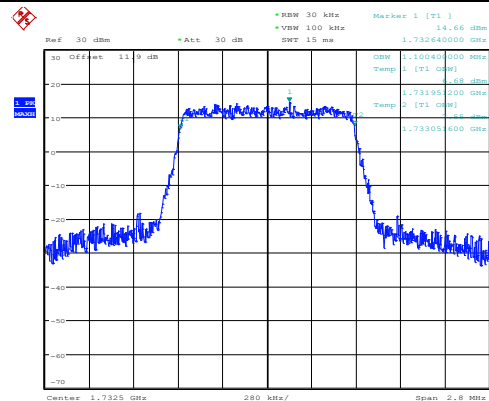
Date: 13.JAN.2015 22:22:32

Middle Channel / 1.4MHz / QPSK



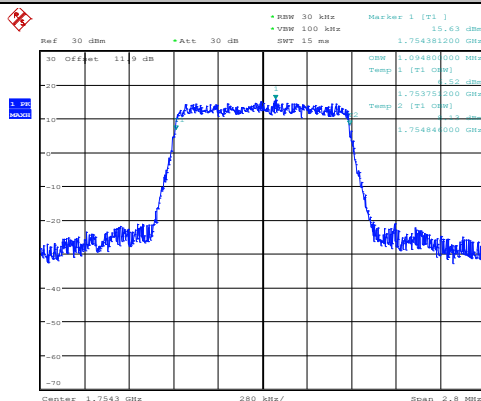
Date: 13.JAN.2015 22:30:12

Middle Channel / 1.4MHz / 16QAM



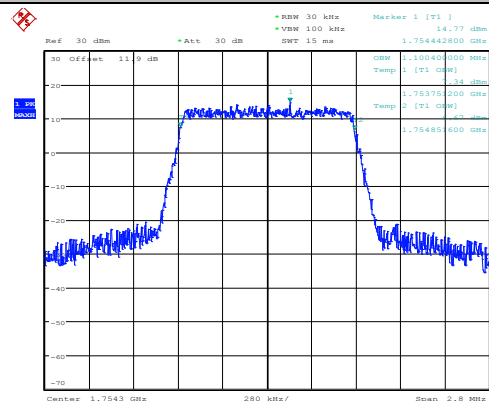
Date: 13.JAN.2015 22:30:23

Highest Channel / 1.4MHz / QPSK



Date: 13.JAN.2015 22:33:20

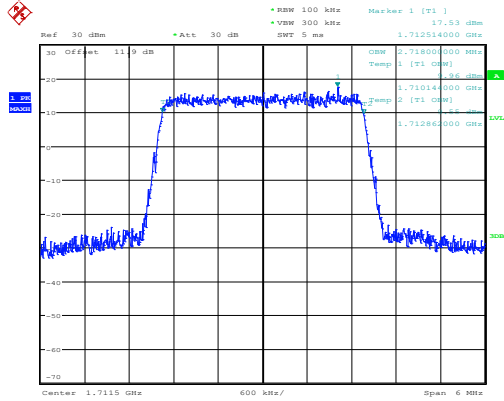
Highest Channel / 1.4MHz / 16QAM



Date: 13.JAN.2015 22:33:31

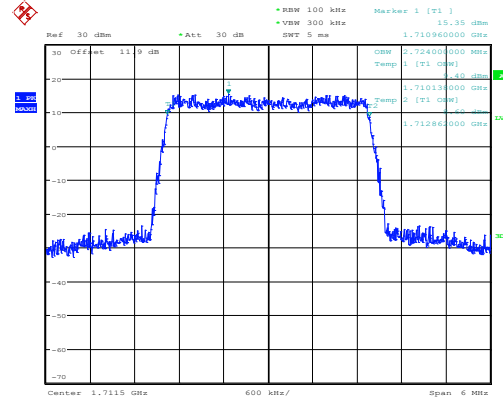
LTE Band 4

Lowest Channel / 3MHz / QPSK



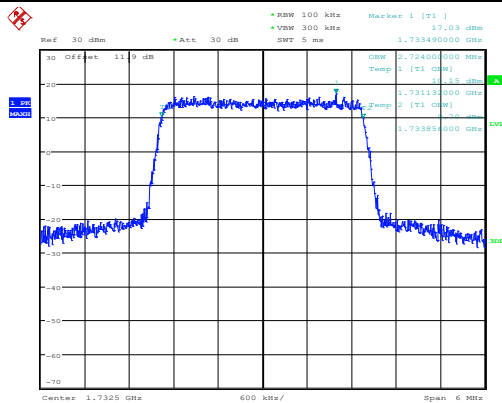
Date: 13.JAN.2015 09:26:17

Lowest Channel / 3MHz / 16QAM



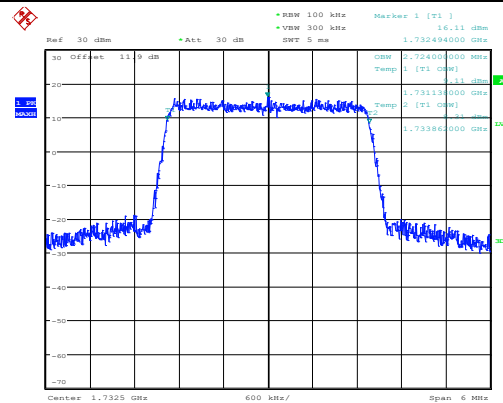
Date: 13.JAN.2015 09:26:28

Middle Channel / 3MHz / QPSK



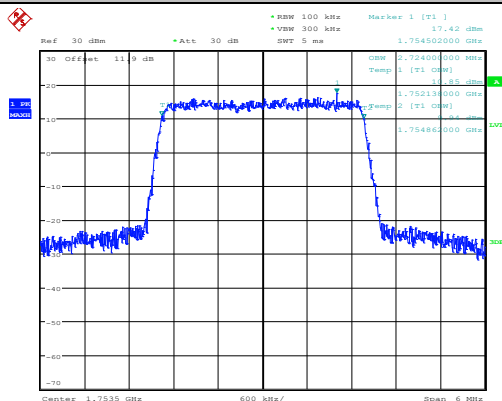
Date: 13.JAN.2015 09:35:58

Middle Channel / 3MHz / 16QAM



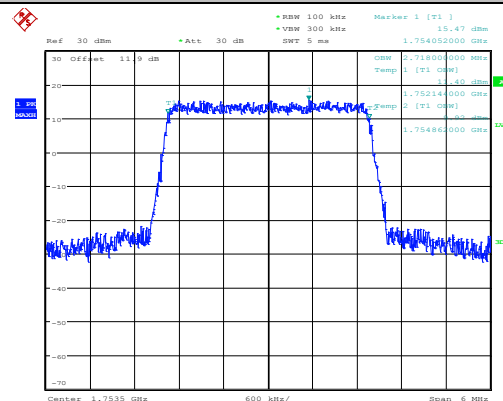
Date: 13.JAN.2015 09:36:08

Highest Channel / 3MHz / QPSK



Date: 13.JAN.2015 09:39:05

Highest Channel / 3MHz / 16QAM

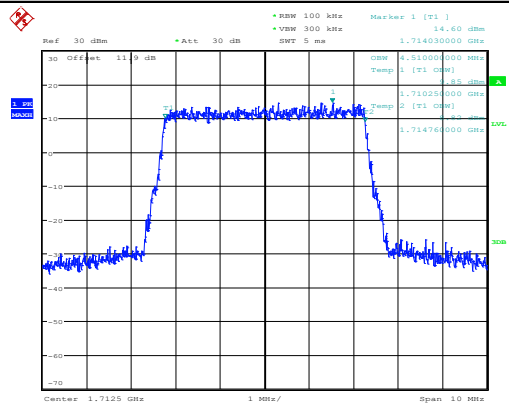


Date: 13.JAN.2015 09:39:15



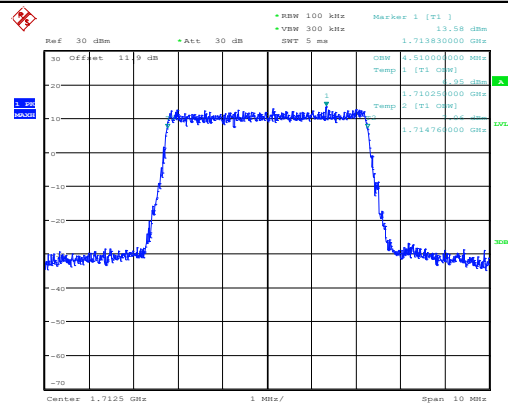
LTE Band 4

Lowest Channel / 5MHz / QPSK



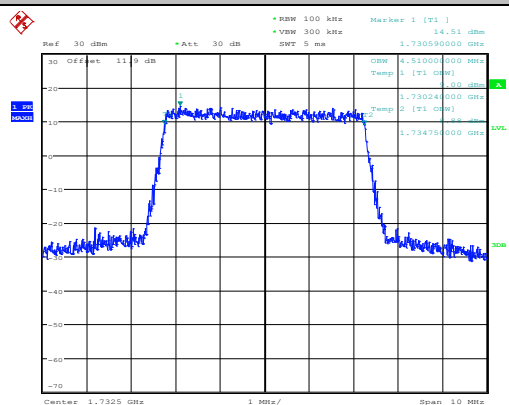
Date: 13.JAN.2015 09:46:56

Lowest Channel / 5MHz / 16QAM



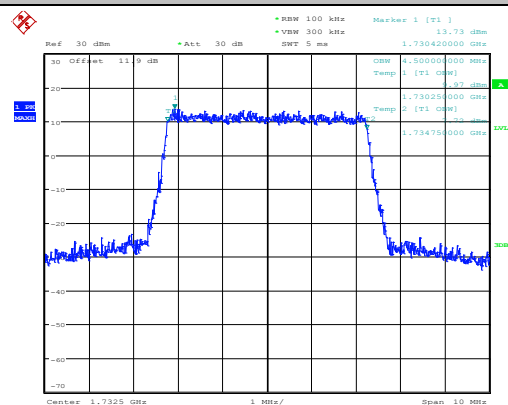
Date: 13.JAN.2015 09:47:07

Middle Channel / 5MHz / QPSK



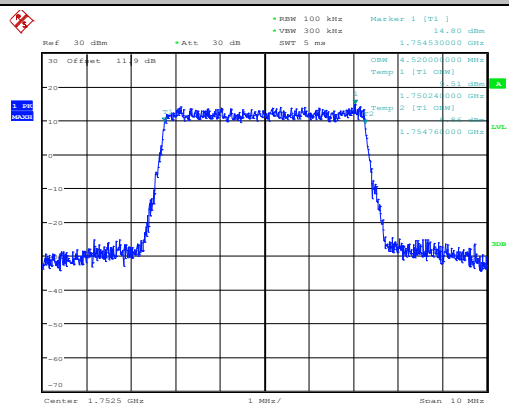
Date: 13.JAN.2015 09:54:42

Middle Channel / 5MHz / 16QAM



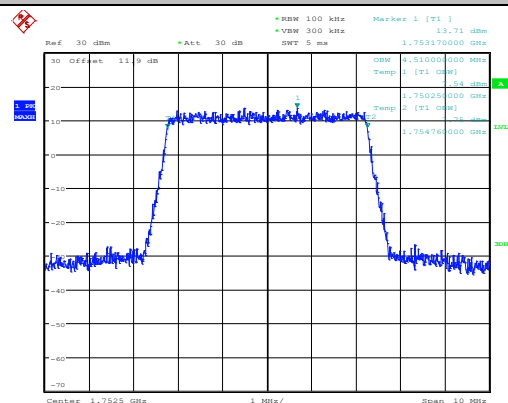
Date: 13.JAN.2015 09:54:52

Highest Channel / 5MHz / QPSK

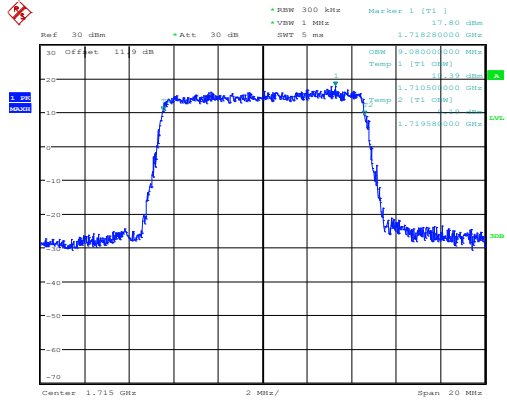


Date: 13.JAN.2015 09:57:49

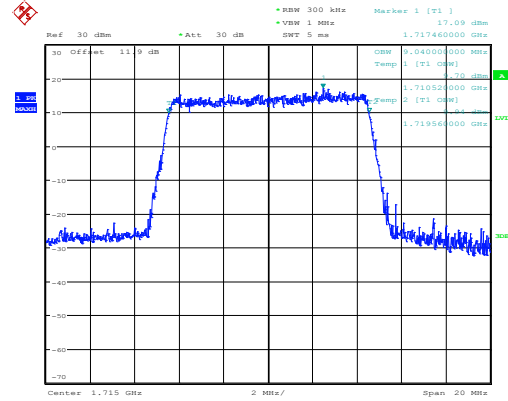
Highest Channel / 5MHz / 16QAM



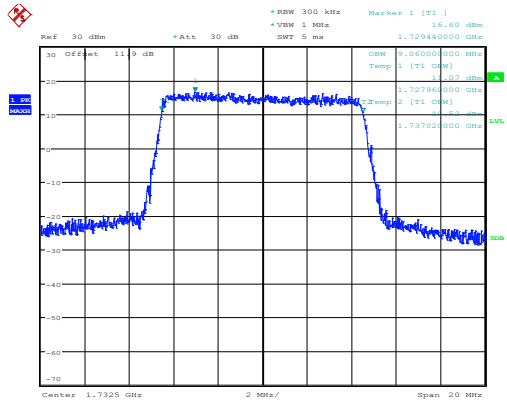
Date: 13.JAN.2015 09:57:59

LTE Band 4
Lowest Channel / 10MHz / QPSK


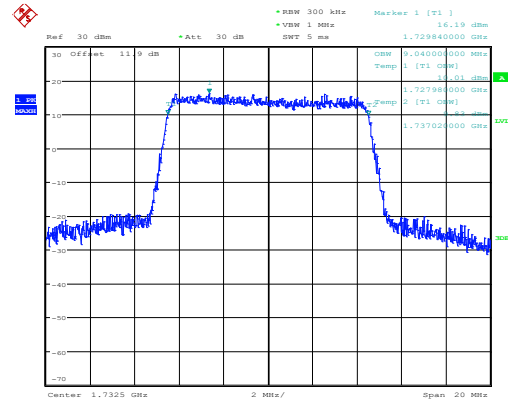
Date: 13.JAN.2015 10:05:39

Lowest Channel / 10MHz / 16QAM


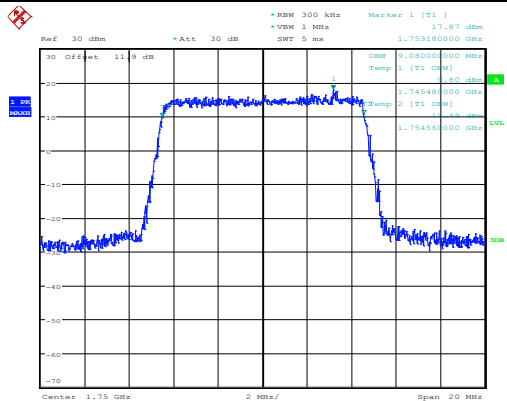
Date: 13.JAN.2015 10:05:50

Middle Channel / 10MHz / QPSK


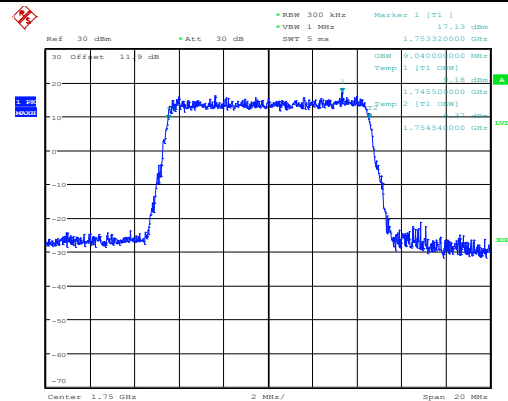
Date: 13.JAN.2015 10:13:27

Middle Channel / 10MHz / 16QAM


Date: 13.JAN.2015 10:13:37

Highest Channel / 10MHz / QPSK


Date: 13.JAN.2015 10:16:34

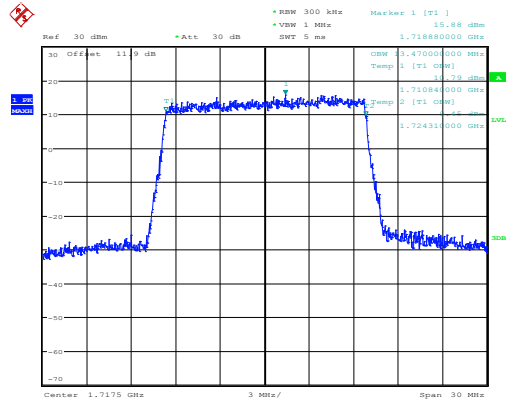
Highest Channel / 10MHz / 16QAM


Date: 13.JAN.2015 10:16:45



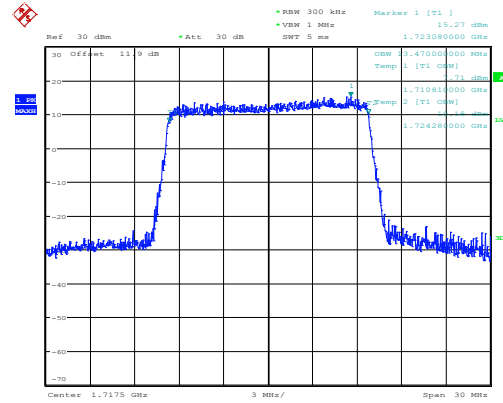
LTE Band 4

Lowest Channel / 15MHz / QPSK



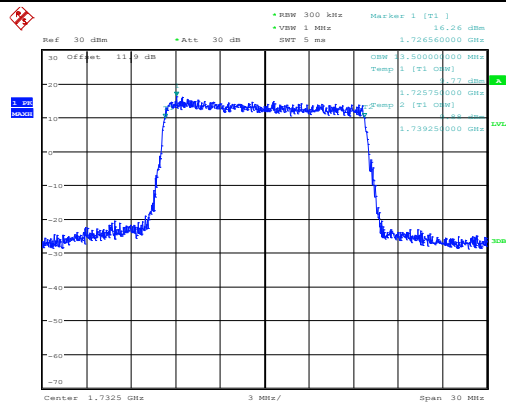
Date: 13.JAN.2015 10:24:40

Lowest Channel / 15MHz / 16QAM



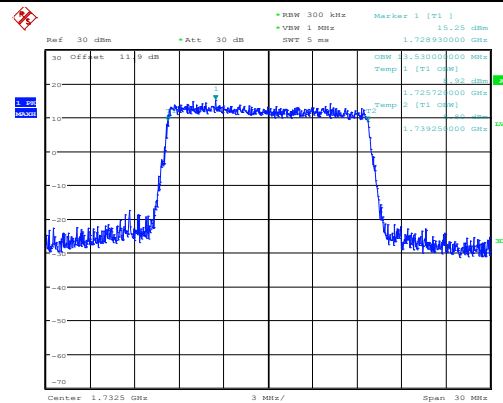
Date: 13.JAN.2015 10:24:51

Middle Channel / 15MHz / QPSK



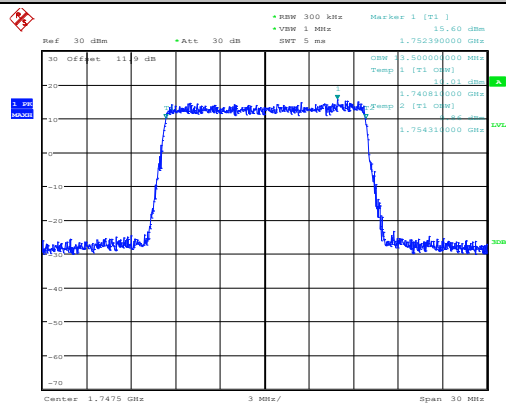
Date: 13.JAN.2015 10:32:28

Middle Channel / 15MHz / 16QAM



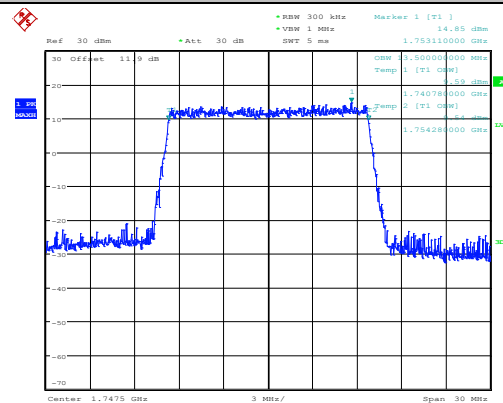
Date: 13.JAN.2015 10:32:38

Highest Channel / 15MHz / QPSK



Date: 13.JAN.2015 10:35:36

Highest Channel / 15MHz / 16QAM

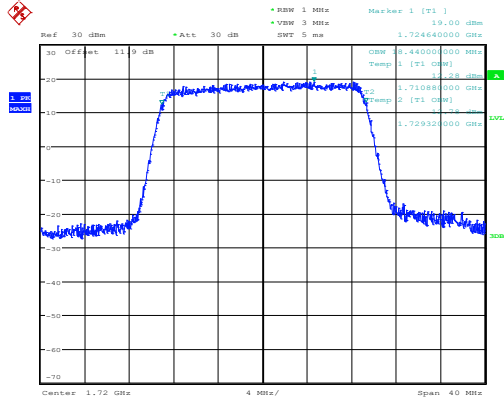


Date: 13.JAN.2015 10:35:47



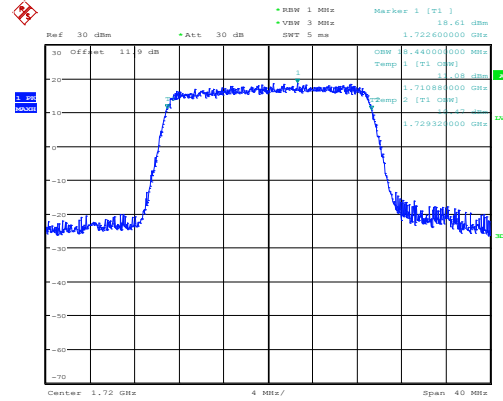
LTE Band 4

Lowest Channel / 20MHz / QPSK



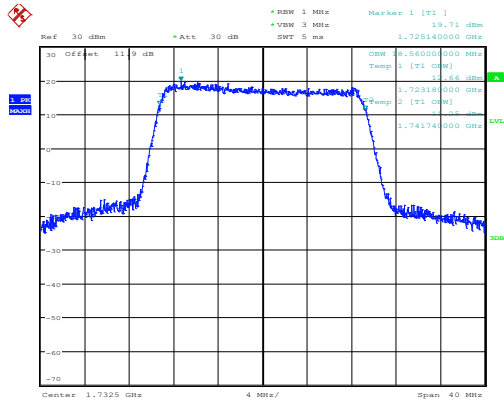
Date: 13.JAN.2015 10:51:38

Lowest Channel / 20MHz / 16QAM



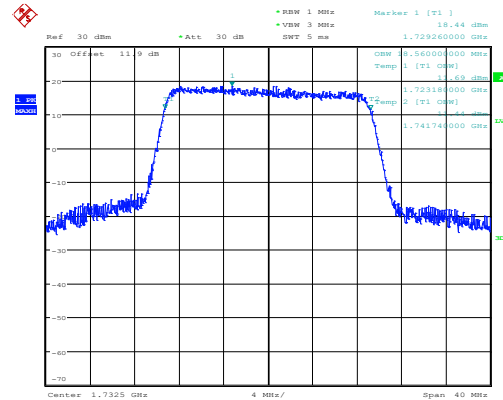
Date: 13.JAN.2015 10:51:49

Middle Channel / 20MHz / QPSK



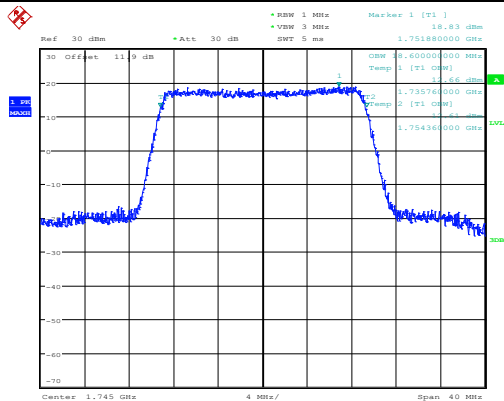
Date: 13.JAN.2015 10:59:24

Middle Channel / 20MHz / 16QAM



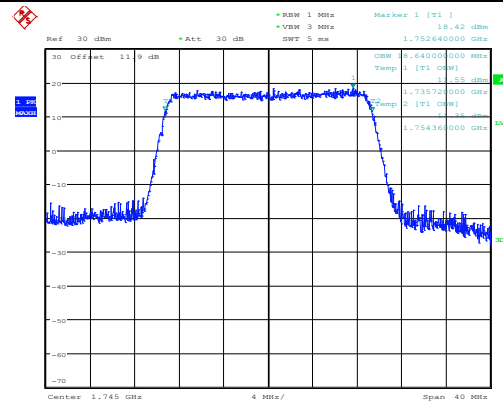
Date: 13.JAN.2015 10:59:34

Highest Channel / 20MHz / QPSK



Date: 13.JAN.2015 11:02:31

Highest Channel / 20MHz / 16QAM



Date: 13.JAN.2015 11:02:41

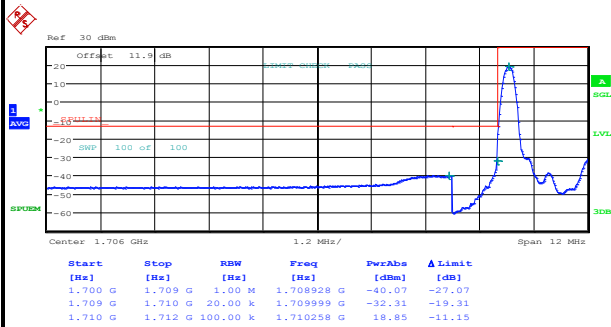


Conducted Band Edge



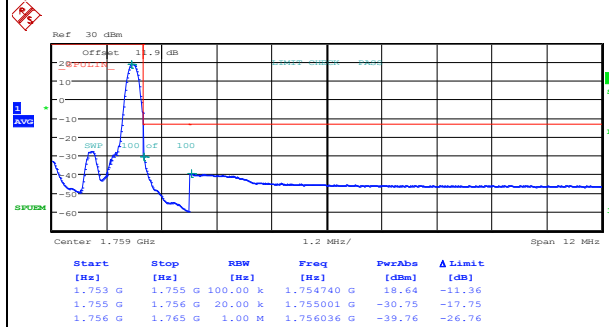
LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



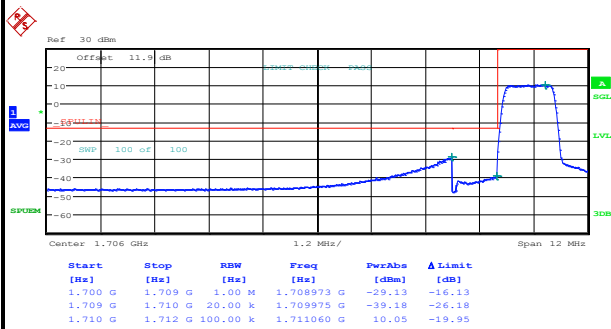
Date: 13.JAN.2015 22:24:08

Highest Band Edge / 1RB



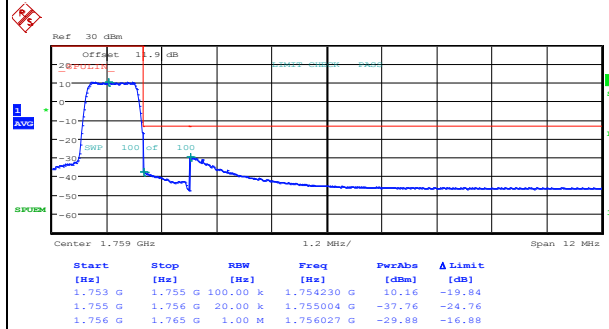
Date: 13.JAN.2015 22:35:07

Lowest Band Edge / Full RB



Date: 13.JAN.2015 22:26:29

Highest Band Edge / Full RB

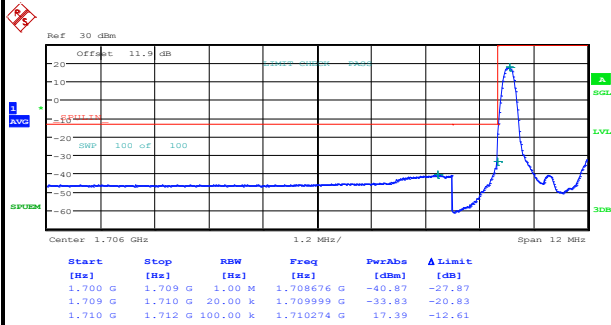


Date: 13.JAN.2015 22:37:28



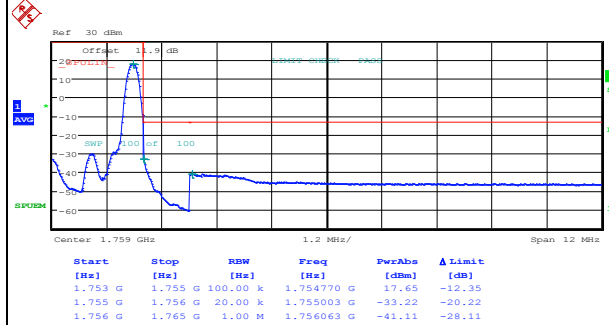
LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



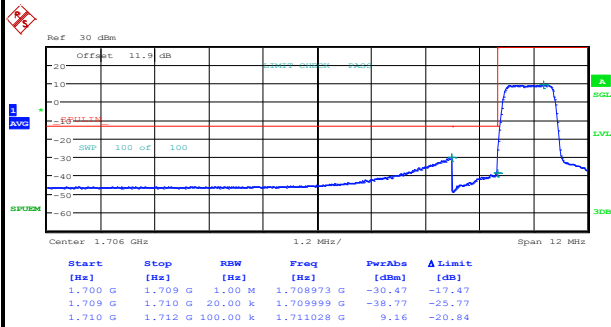
Date: 13.JAN.2015 22:25:19

Highest Band Edge / 1 RB



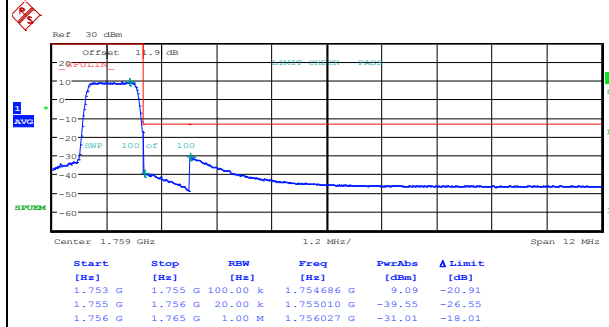
Date: 13.JAN.2015 22:36:17

Lowest Band Edge / Full RB



Date: 13.JAN.2015 22:27:40

Highest Band Edge / Full RB

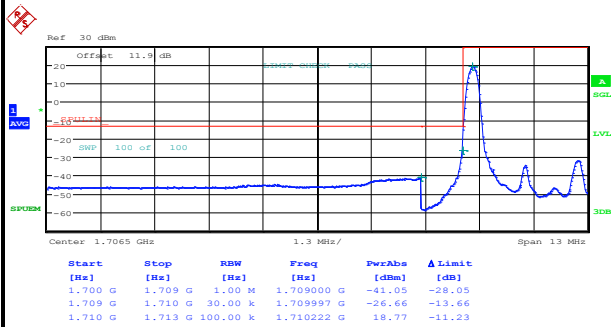


Date: 13.JAN.2015 22:38:38



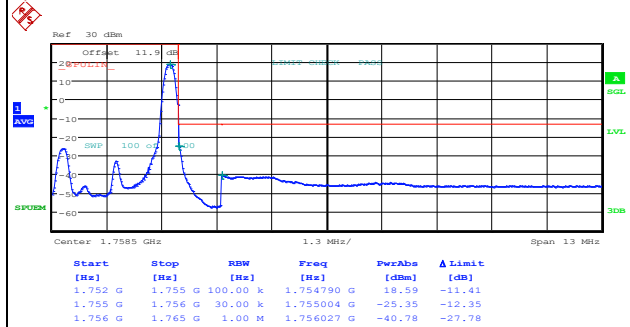
LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / 1RB



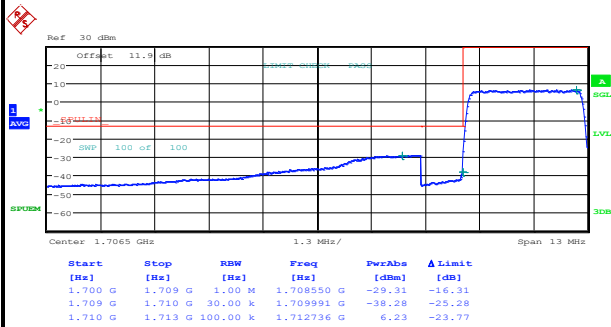
Date: 13.JAN.2015 09:29:56

Highest Band Edge / 1 RB



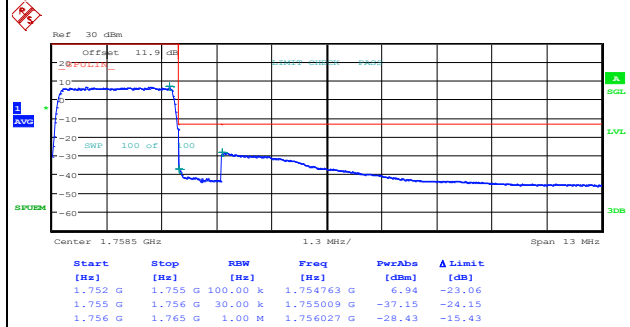
Date: 13.JAN.2015 09:40:51

Lowest Band Edge / Full RB



Date: 13.JAN.2015 09:32:16

Highest Band Edge / Full RB

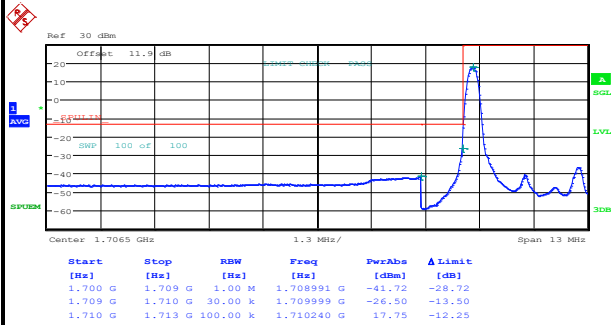


Date: 13.JAN.2015 09:43:10



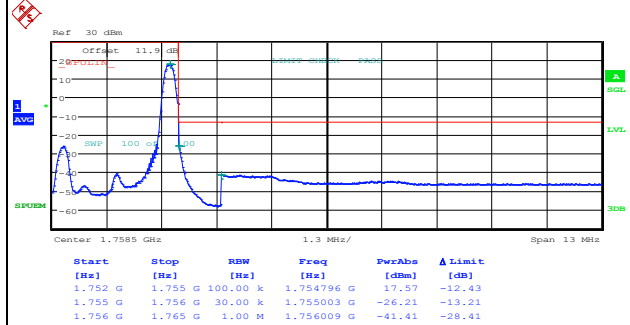
LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



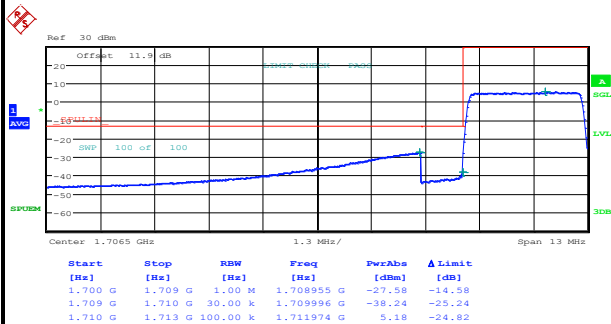
Date: 13.JAN.2015 09:31:06

Highest Band Edge / 1 RB



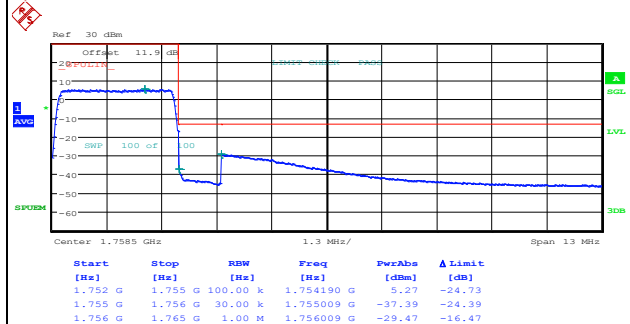
Date: 13.JAN.2015 09:42:00

Lowest Band Edge / Full RB



Date: 13.JAN.2015 09:33:26

Highest Band Edge / Full RB

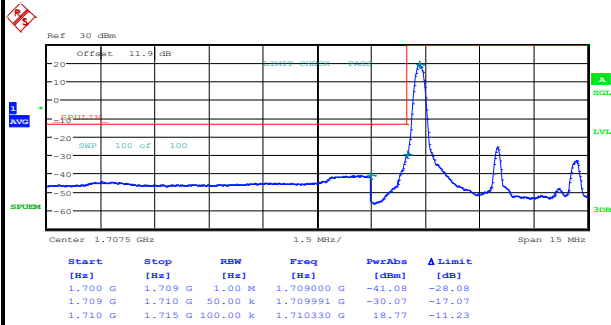


Date: 13.JAN.2015 09:44:20



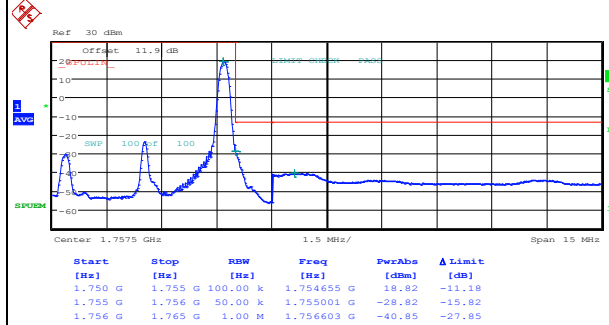
LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / 1 RB



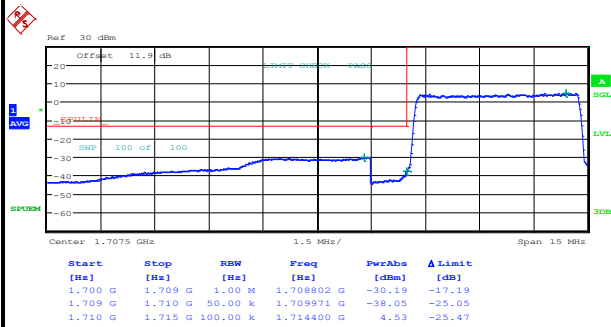
Date: 13.JAN.2015 09:48:42

Highest Band Edge / 1 RB



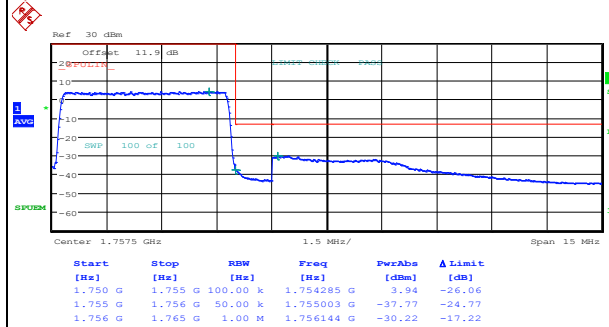
Date: 13.JAN.2015 09:59:35

Lowest Band Edge / Full RB



Date: 13.JAN.2015 09:51:01

Highest Band Edge / Full RB

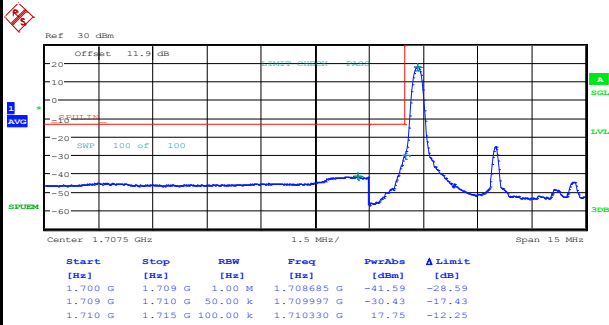


Date: 13.JAN.2015 10:01:54



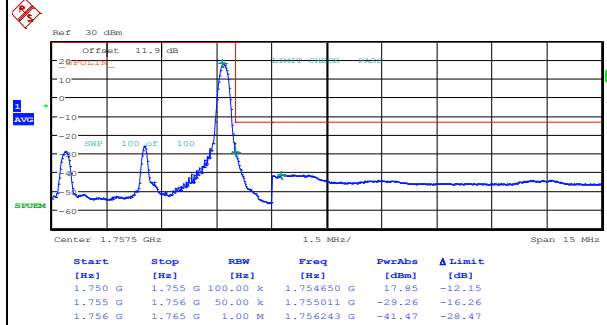
LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1RB



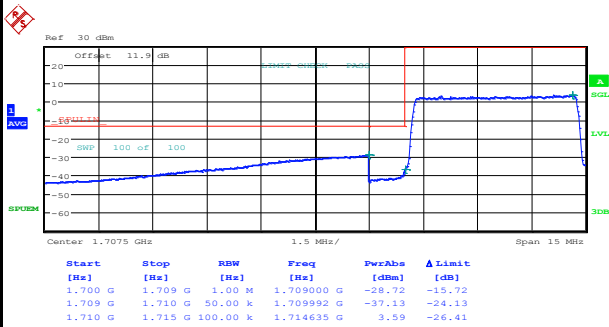
Date: 13.JAN.2015 09:49:52

Highest Band Edge / 1 RB



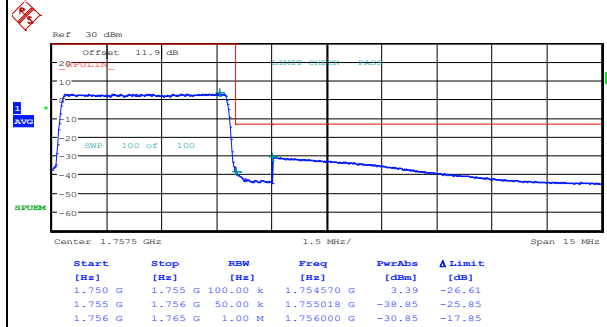
Date: 13.JAN.2015 10:00:44

Lowest Band Edge / Full RB



Date: 13.JAN.2015 09:52:11

Highest Band Edge / Full RB

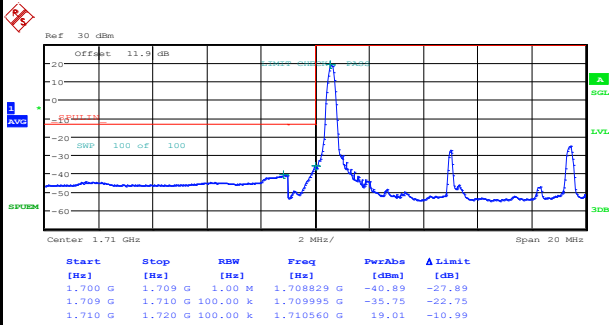


Date: 13.JAN.2015 10:03:04



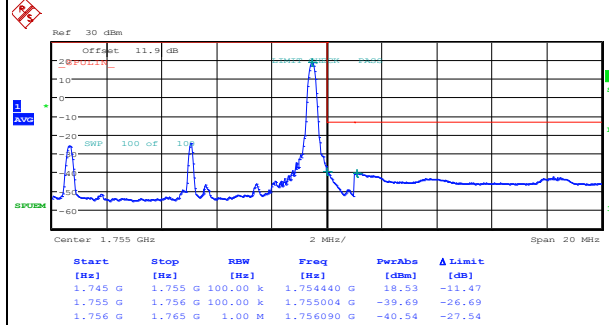
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1 RB



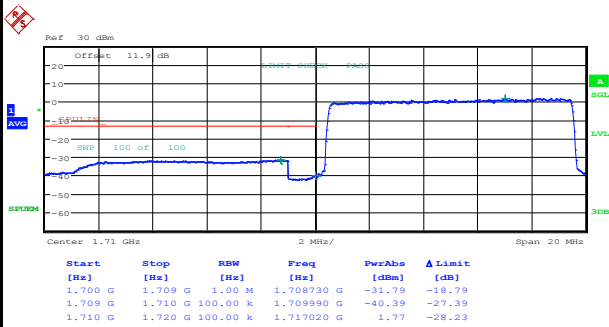
Date: 13.JAN.2015 10:07:26

Highest Band Edge / 1 RB



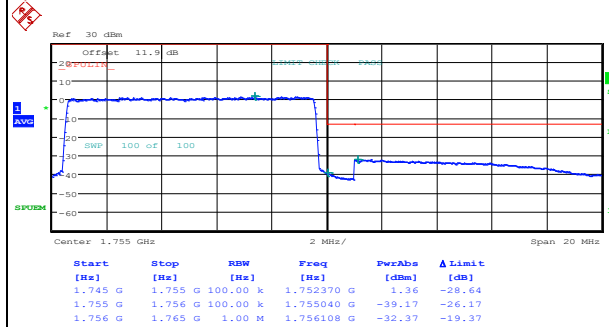
Date: 13.JAN.2015 10:18:20

Lowest Band Edge / Full RB



Date: 13.JAN.2015 10:09:45

Highest Band Edge / Full RB

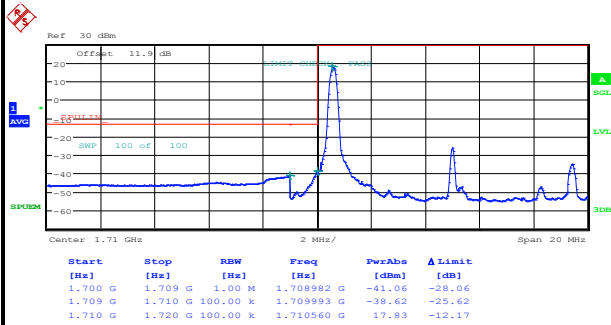


Date: 13.JAN.2015 10:20:42



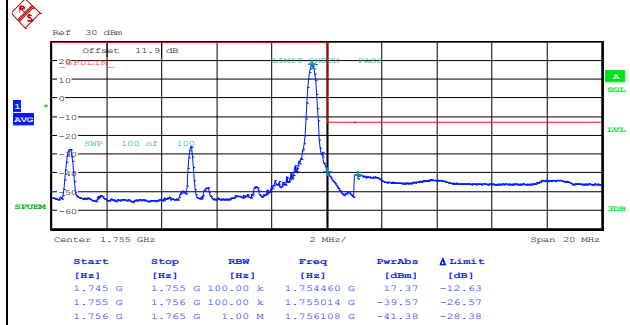
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



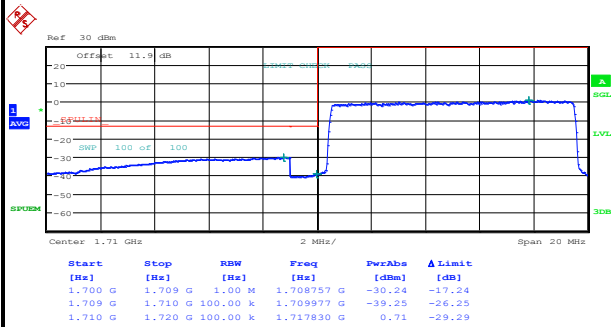
Date: 13.JAN.2015 10:08:35

Highest Band Edge / 1 RB



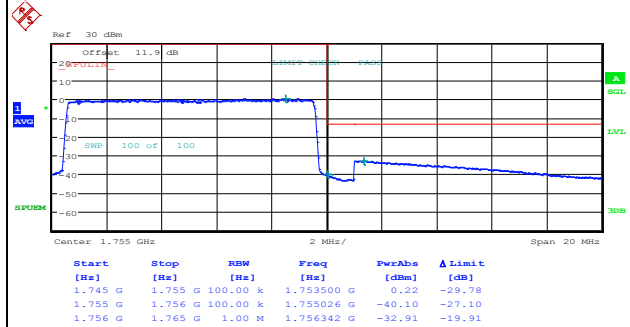
Date: 13.JAN.2015 10:19:30

Lowest Band Edge / Full RB



Date: 13.JAN.2015 10:10:55

Highest Band Edge / Full RB

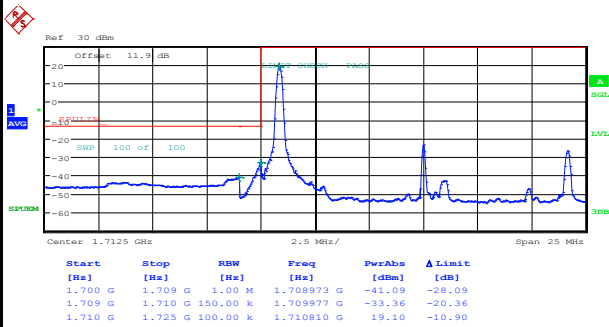


Date: 13.JAN.2015 10:22:00



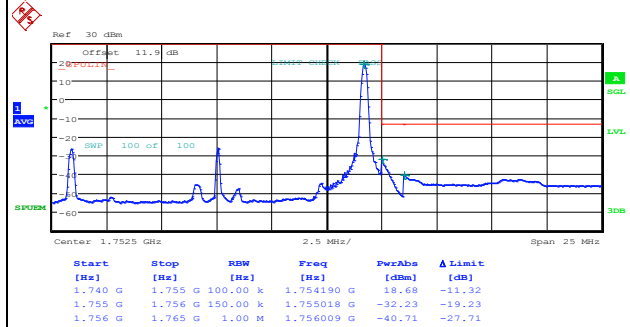
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



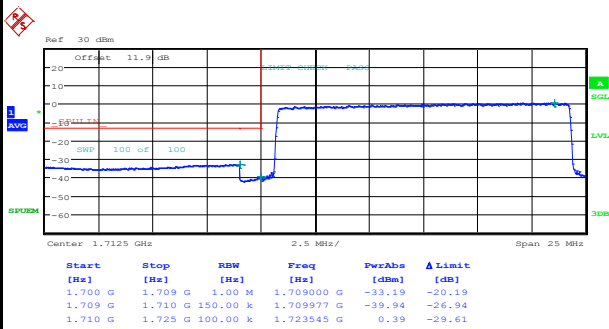
Date: 13.JAN.2015 10:26:27

Highest Band Edge / 1 RB



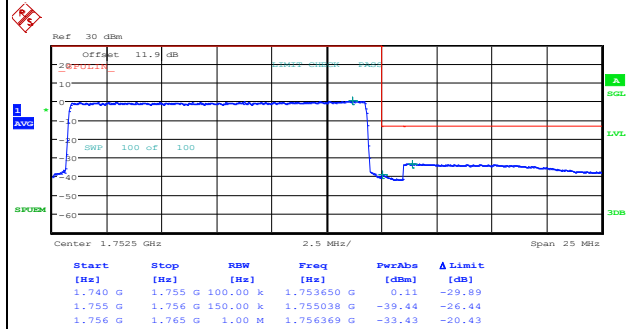
Date: 14.JAN.2015 13:58:38

Lowest Band Edge / Full RB



Date: 13.JAN.2015 10:28:47

Highest Band Edge / Full RB

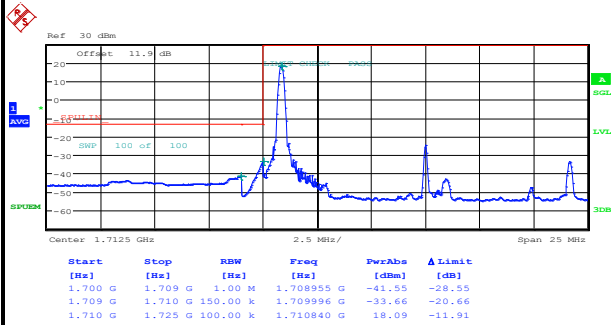


Date: 13.JAN.2015 10:47:53



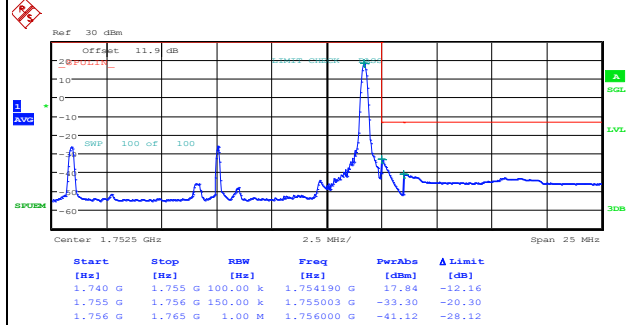
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



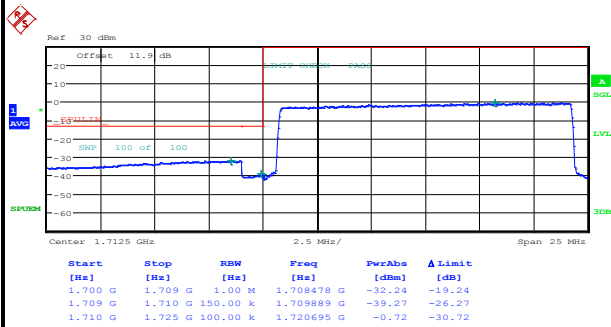
Date: 13.JAN.2015 10:27:37

Highest Band Edge / 1 RB



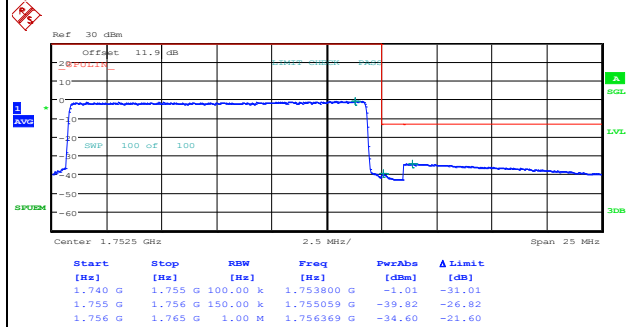
Date: 13.JAN.2015 10:46:43

Lowest Band Edge / Full RB



Date: 13.JAN.2015 10:29:57

Highest Band Edge / Full RB

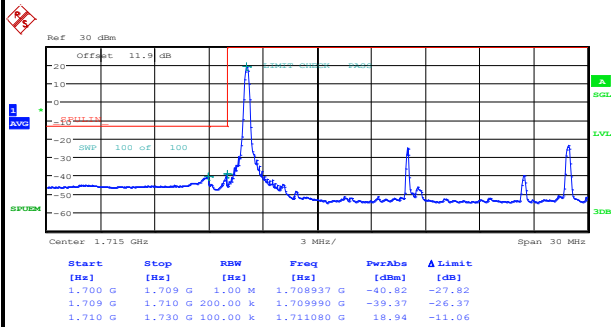


Date: 13.JAN.2015 10:49:03



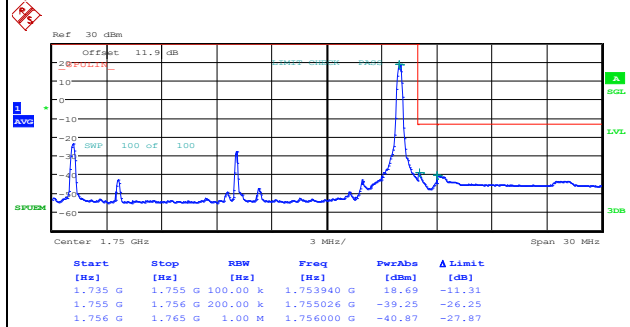
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



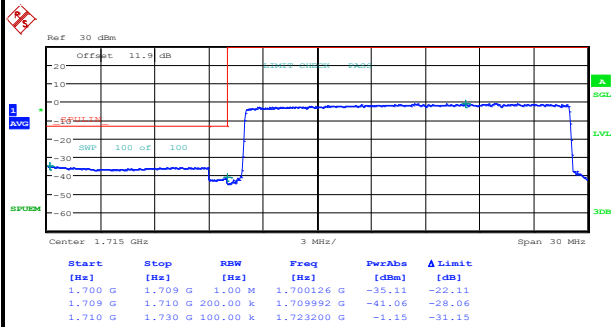
Date: 13.JAN.2015 10:53:24

Highest Band Edge / 1 RB



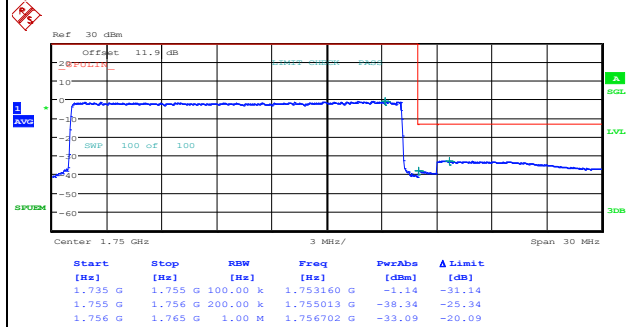
Date: 13.JAN.2015 11:04:16

Lowest Band Edge / Full RB



Date: 13.JAN.2015 10:55:43

Highest Band Edge / Full RB

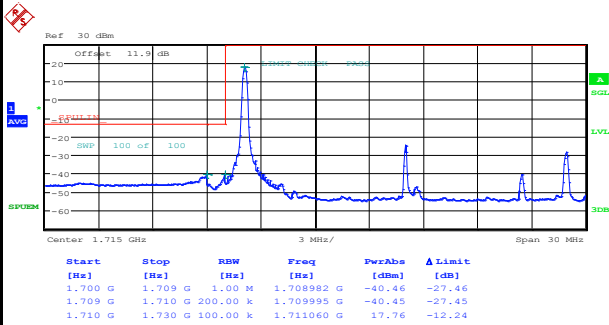


Date: 13.JAN.2015 11:06:36



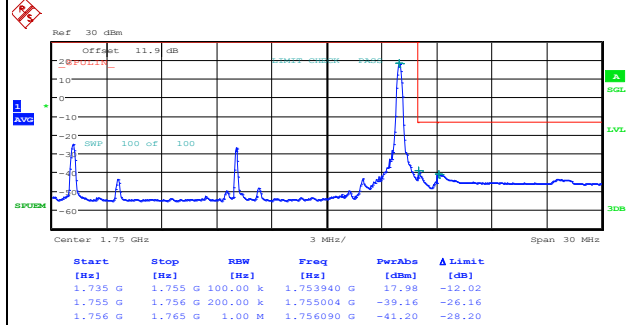
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



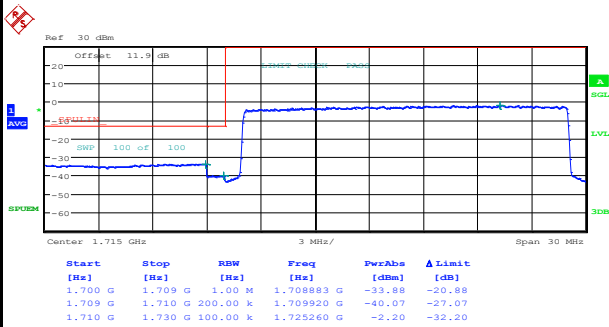
Date: 13.JAN.2015 10:54:34

Highest Band Edge / 1 RB



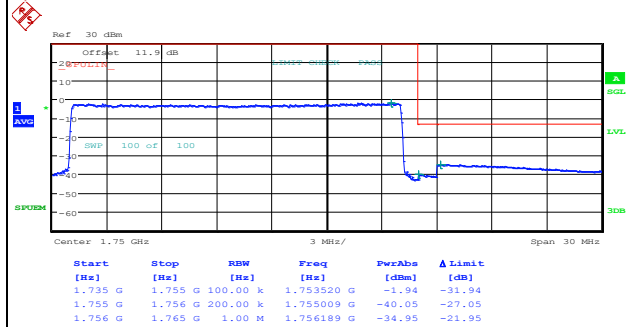
Date: 13.JAN.2015 11:05:26

Lowest Band Edge / Full RB



Date: 13.JAN.2015 10:56:53

Highest Band Edge / Full RB



Date: 13.JAN.2015 11:07:46

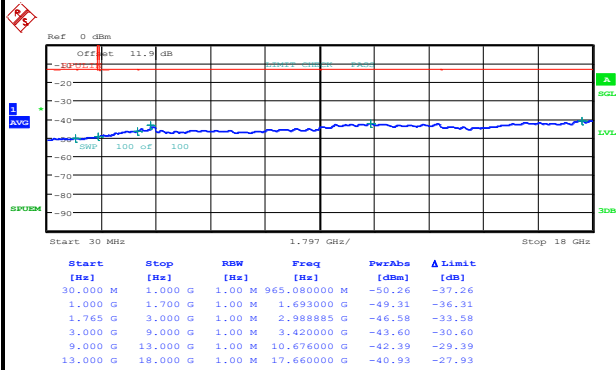


Conducted Spurious Emission



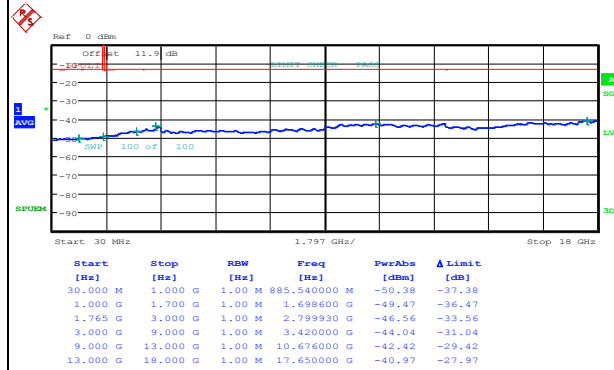
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



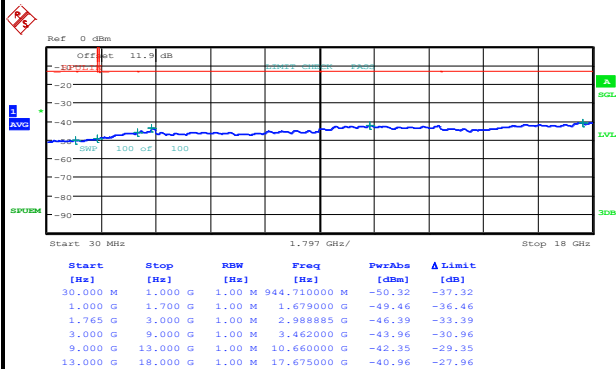
Date: 13.JAN.2015 22:28:50

Lowest Channel / 16QAM



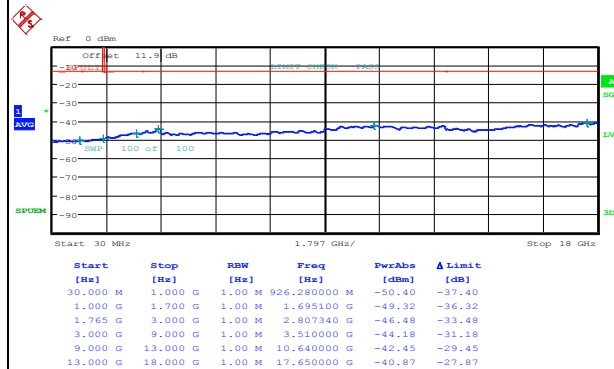
Date: 13.JAN.2015 22:30:01

Middle Channel / QPSK



Date: 13.JAN.2015 22:31:58

Middle Channel / 16QAM

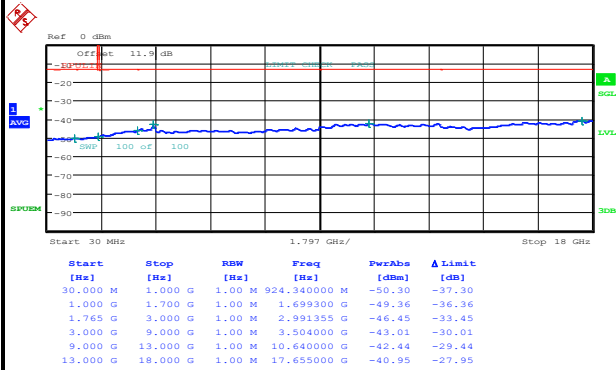


Date: 13.JAN.2015 22:33:09



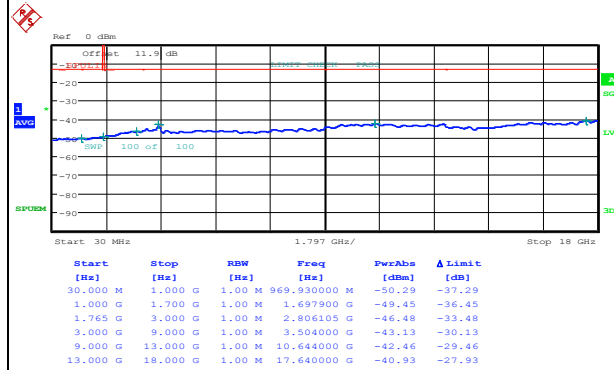
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 13.JAN.2015 22:39:48

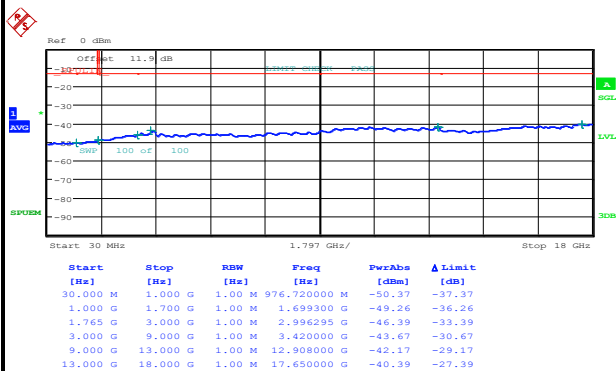
Highest Channel / 16QAM



Date: 13.JAN.2015 22:40:59

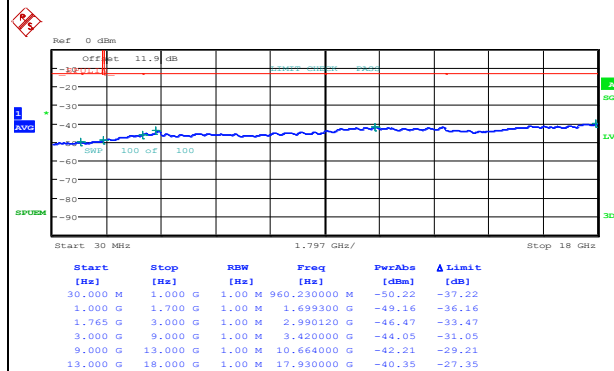
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 13.JAN.2015 09:34:36

Lowest Channel / 16QAM

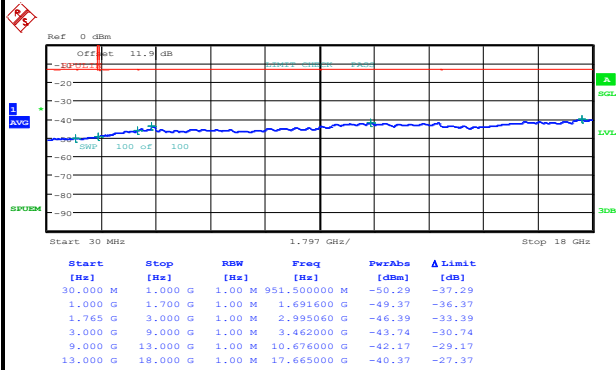


Date: 13.JAN.2015 09:35:46



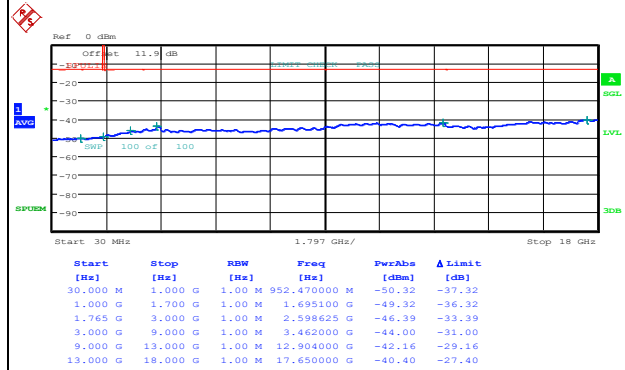
LTE Band 4 / 3MHz

Middle Channel / QPSK



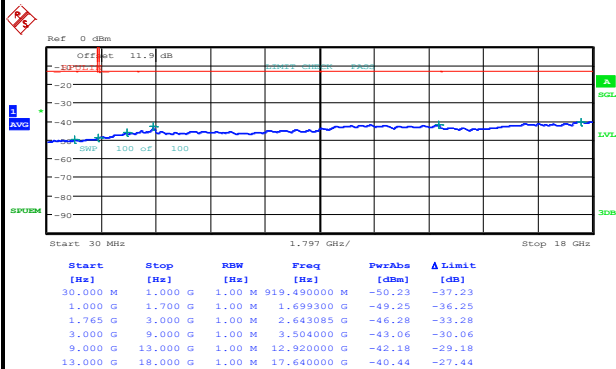
Date: 13.JAN.2015 09:37:44

Middle Channel / 16QAM



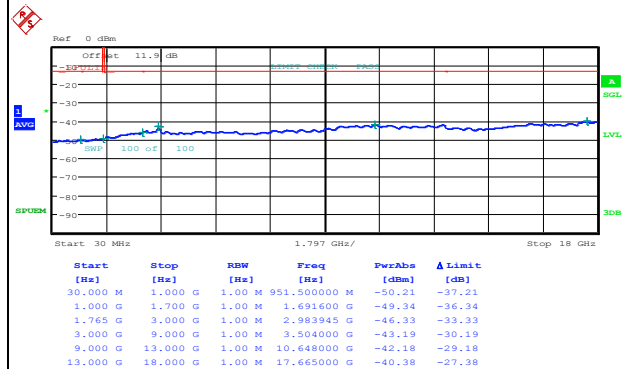
Date: 13.JAN.2015 09:38:54

Highest Channel / QPSK



Date: 13.JAN.2015 09:45:30

Highest Channel / 16QAM

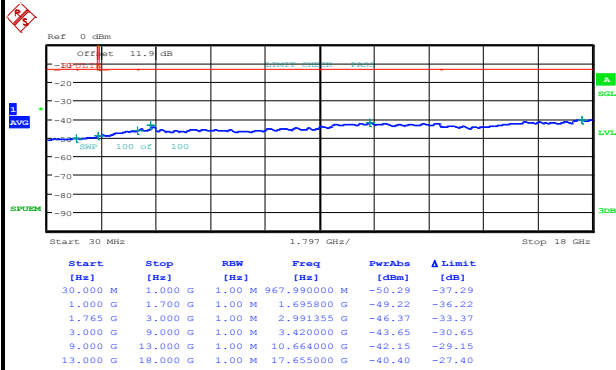


Date: 13.JAN.2015 09:46:40



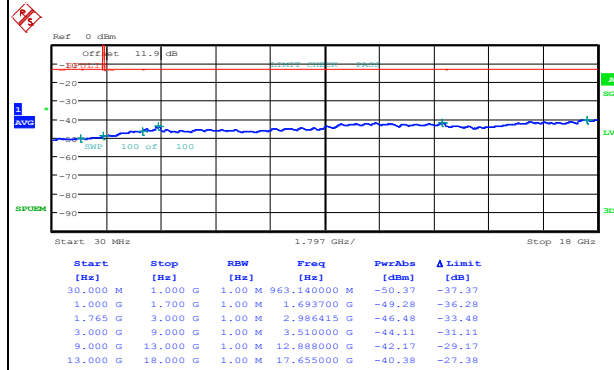
LTE Band 4 / 5MHz

Lowest Channel / QPSK



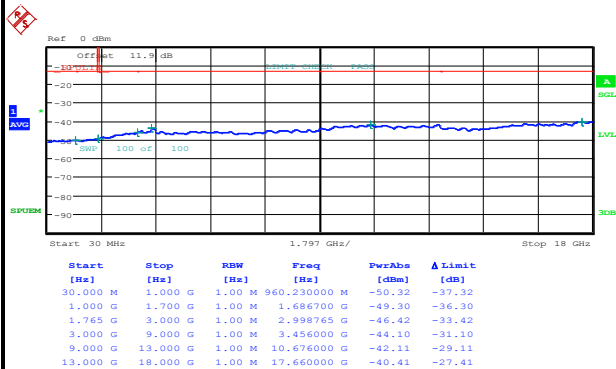
Date: 13.JAN.2015 09:53:21

Lowest Channel / 16QAM



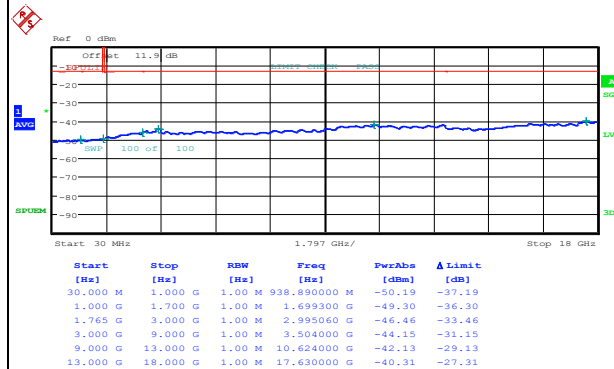
Date: 13.JAN.2015 09:54:31

Middle Channel / QPSK



Date: 13.JAN.2015 09:56:28

Middle Channel / 16QAM

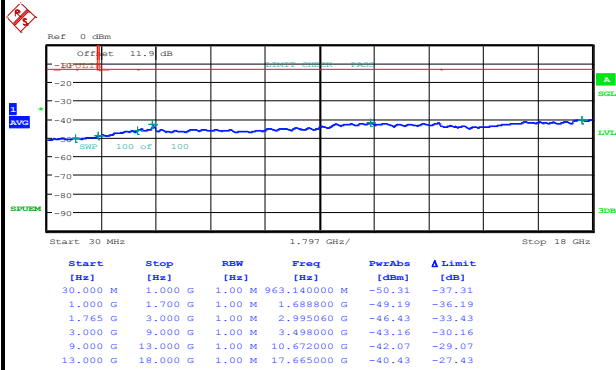


Date: 13.JAN.2015 09:57:37



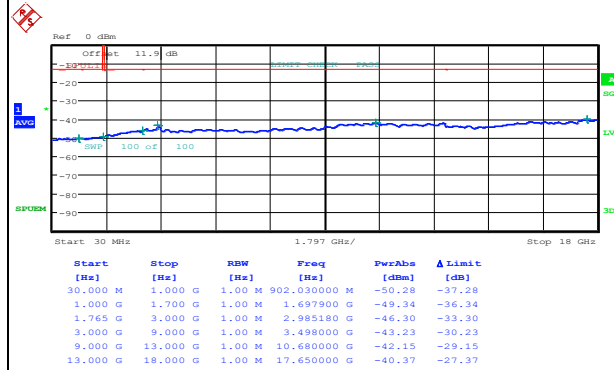
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 13.JAN.2015 10:04:14

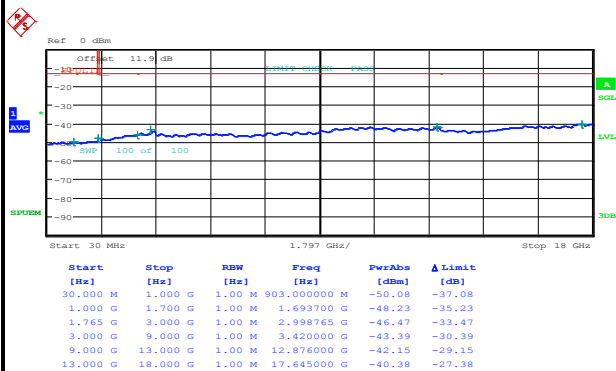
Highest Channel / 16QAM



Date: 13.JAN.2015 10:05:24

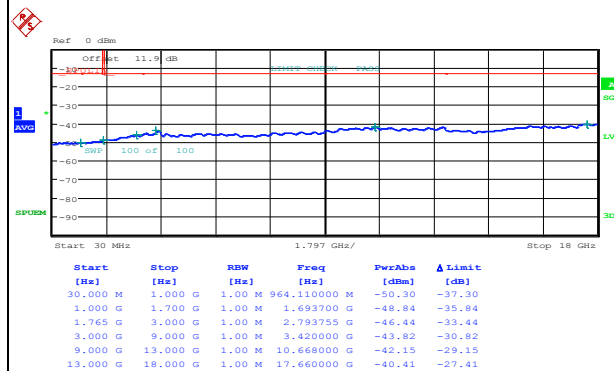
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 13.JAN.2015 10:12:05

Lowest Channel / 16QAM

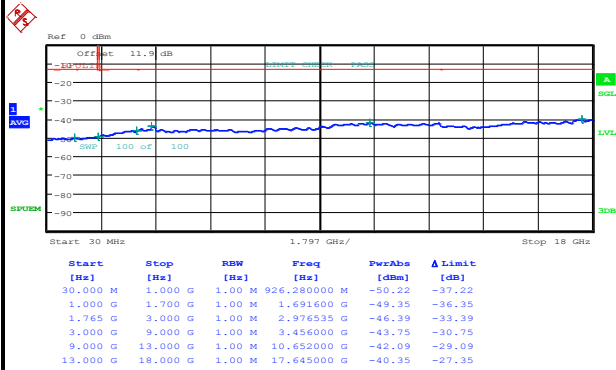


Date: 13.JAN.2015 10:13:16



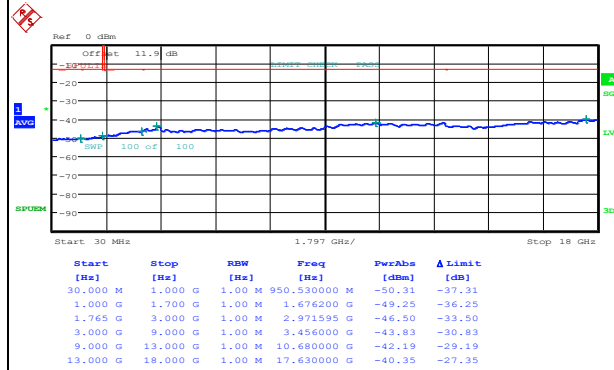
LTE Band 4 / 10MHz

Middle Channel / QPSK



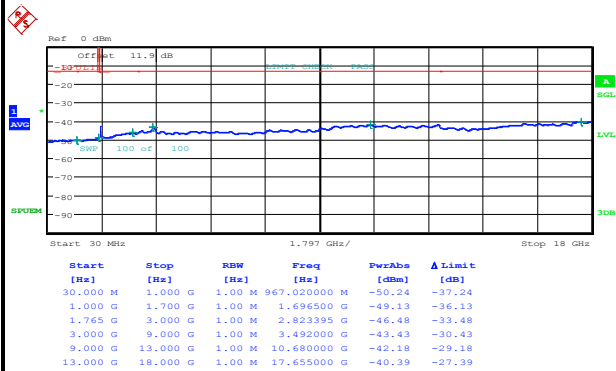
Date: 13.JAN.2015 10:15:13

Middle Channel / 16QAM



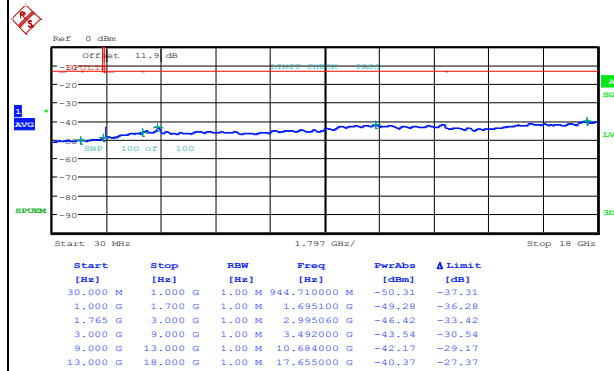
Date: 13.JAN.2015 10:16:23

Highest Channel / QPSK



Date: 13.JAN.2015 10:23:12

Highest Channel / 16QAM

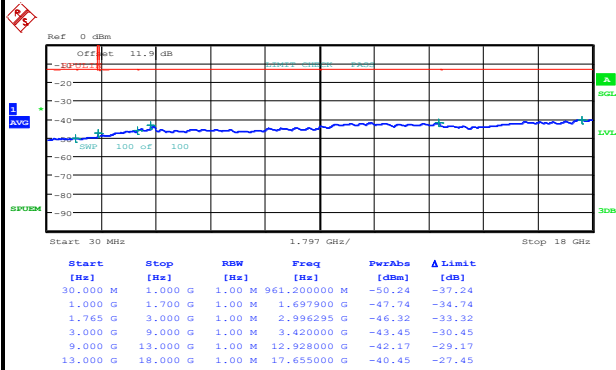


Date: 13.JAN.2015 10:24:25



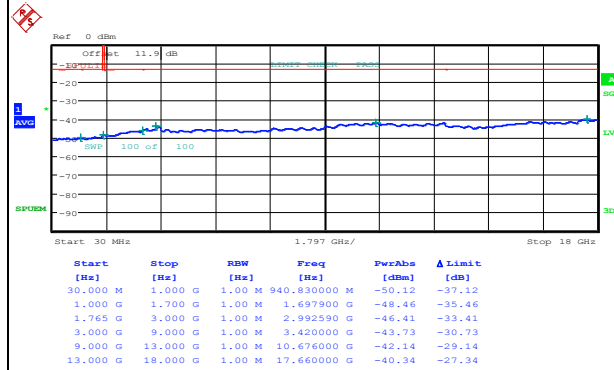
LTE Band 4 / 15MHz

Lowest Channel / QPSK



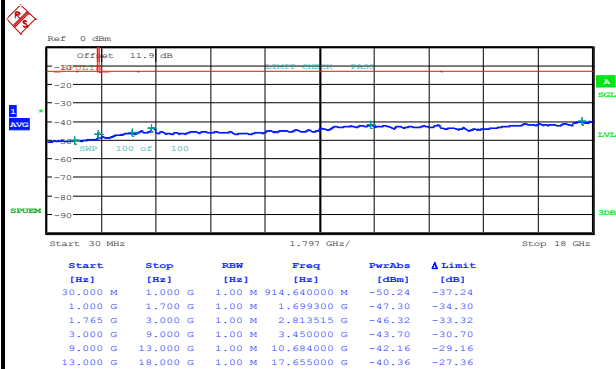
Date: 13.JAN.2015 10:31:07

Lowest Channel / 16QAM



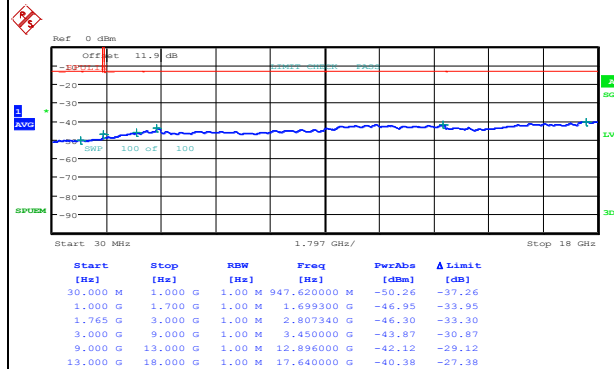
Date: 13.JAN.2015 10:32:16

Middle Channel / QPSK



Date: 13.JAN.2015 10:34:14

Middle Channel / 16QAM

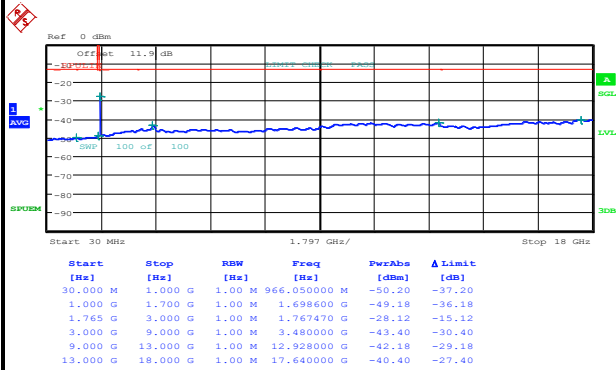


Date: 13.JAN.2015 10:35:24



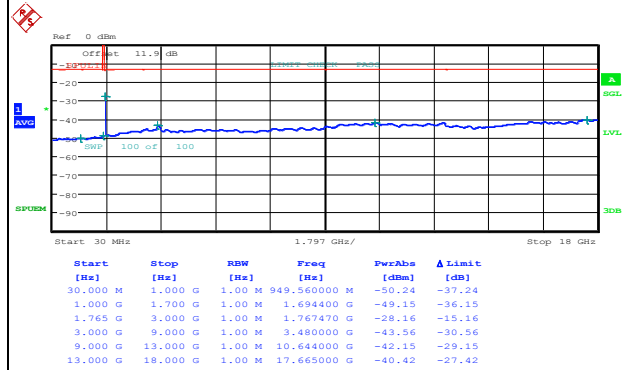
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 13.JAN.2015 10:50:12

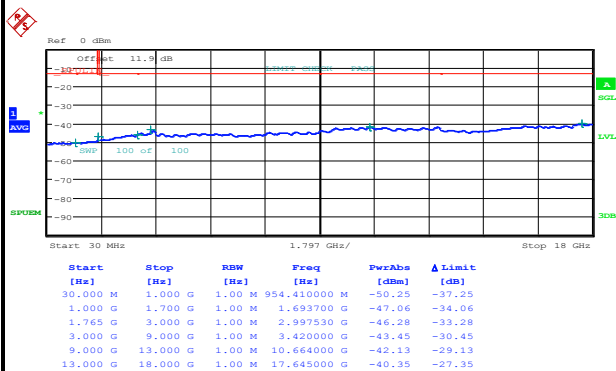
Highest Channel / 16QAM



Date: 13.JAN.2015 10:51:22

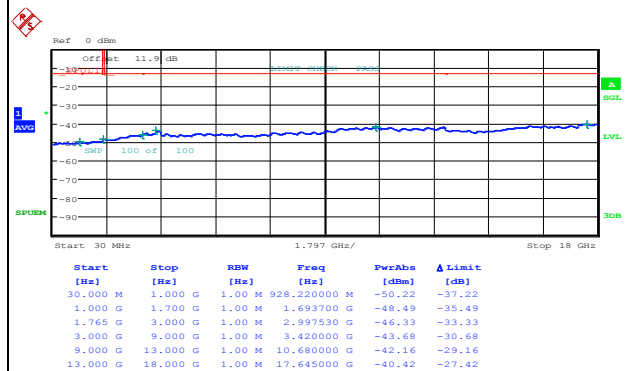
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 13.JAN.2015 10:58:02

Lowest Channel / 16QAM

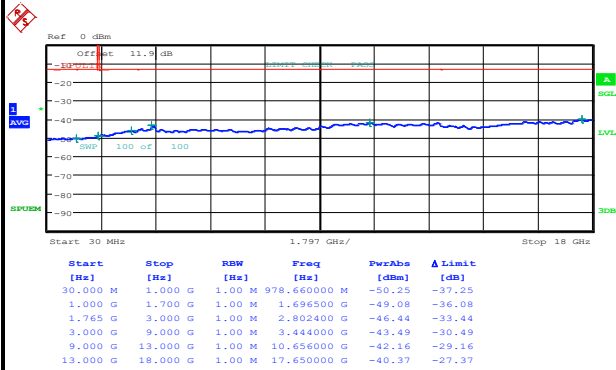


Date: 13.JAN.2015 10:59:13



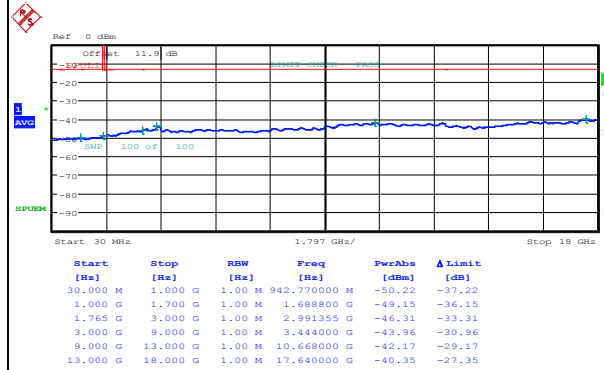
LTE Band 4 / 20MHz

Middle Channel / QPSK



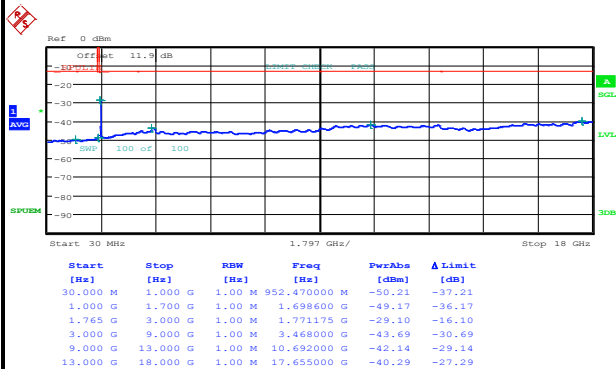
Date: 13.JAN.2015 11:01:10

Middle Channel / 16QAM



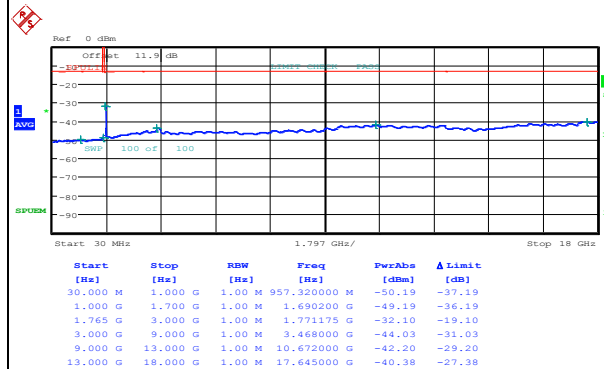
Date: 13.JAN.2015 11:02:19

Highest Channel / QPSK



Date: 13.JAN.2015 11:08:56

Highest Channel / 16QAM



Date: 13.JAN.2015 11:10:06

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	0.0002	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.1 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 5

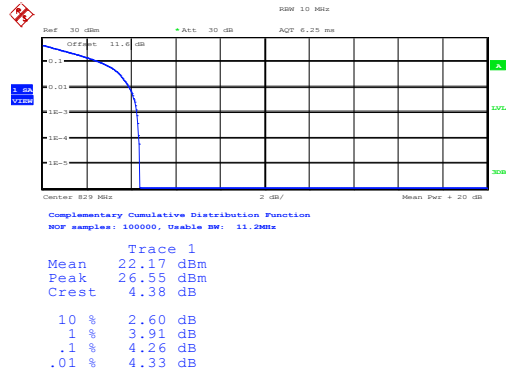
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	4.26	5.93	5.74	6.57	PASS
Middle CH	6.19	6.19	6.67	6.73	
Highest CH	4.9	5.96	5.87	6.54	



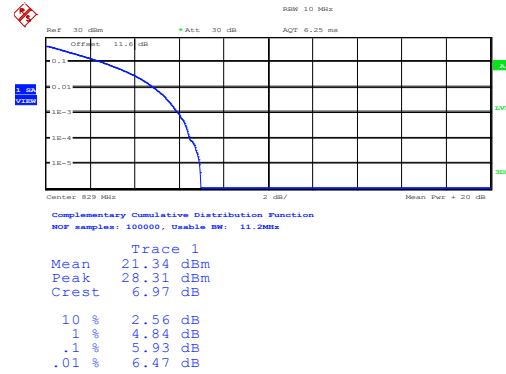
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



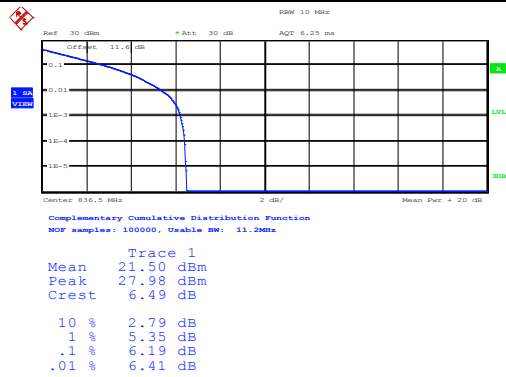
Date: 12.JAN.2015 13:38:12

Lowest Channel / Full RB



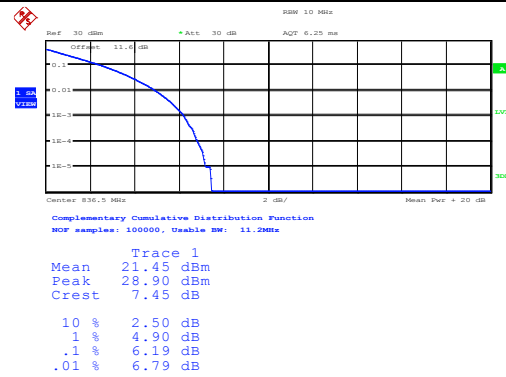
Date: 12.JAN.2015 13:38:32

Middle Channel / 1RB



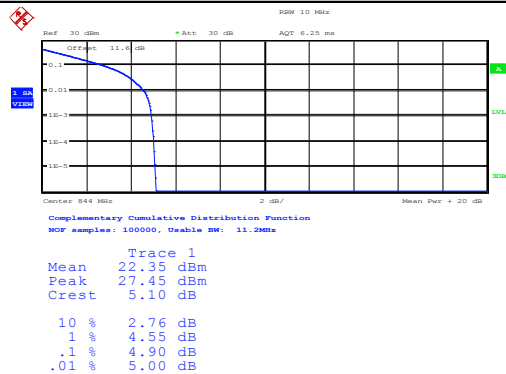
Date: 12.JAN.2015 13:39:42

Middle Channel / Full RB



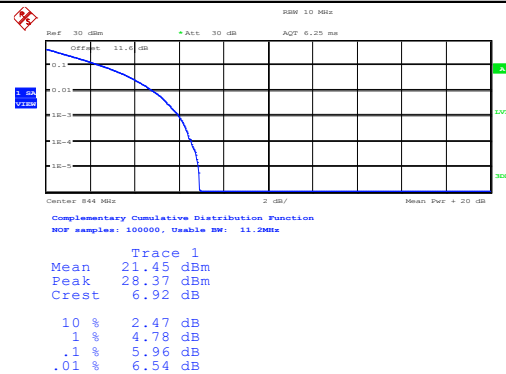
Date: 12.JAN.2015 13:40:14

Highest Channel / 1RB



Date: 12.JAN.2015 13:41:43

Highest Channel / Full RB

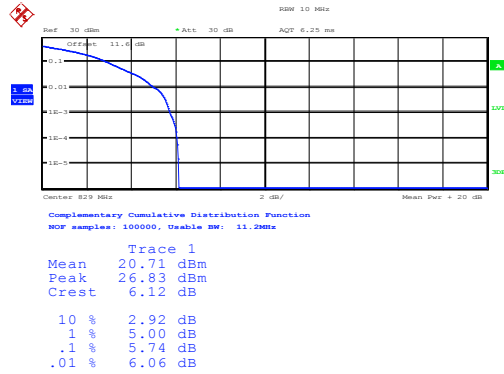


Date: 12.JAN.2015 13:42:03



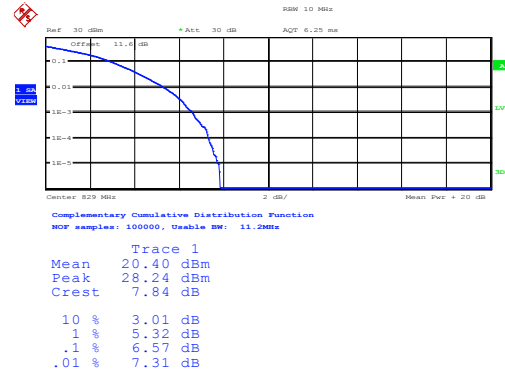
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



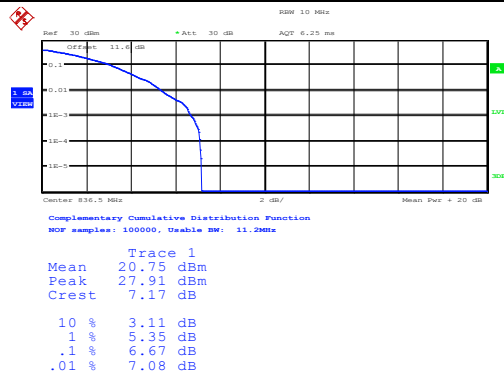
Date: 12.JAN.2015 13:32:26

Lowest Channel / Full RB



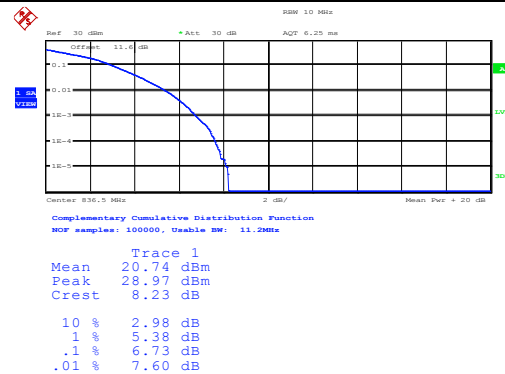
Date: 12.JAN.2015 13:34:38

Middle Channel / 1RB



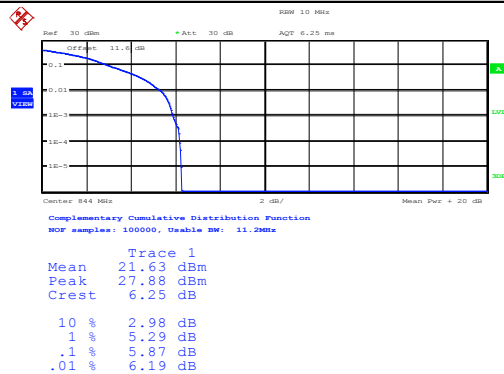
Date: 12.JAN.2015 13:34:57

Middle Channel / Full RB



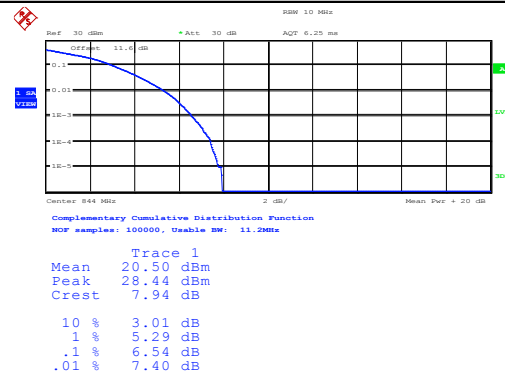
Date: 12.JAN.2015 13:36:26

Highest Channel / 1RB



Date: 12.JAN.2015 13:36:51

Highest Channel / Full RB



Date: 12.JAN.2015 13:37:54



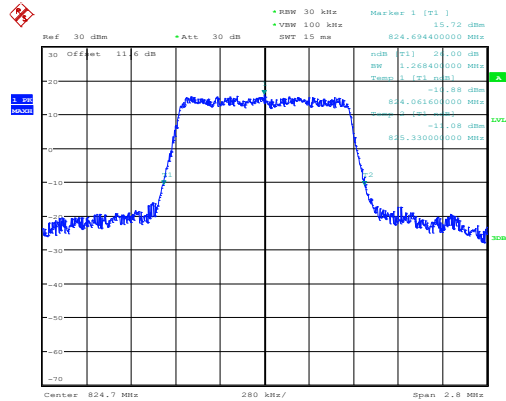
26dB Bandwidth

Mode	LTE Band 5 : 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	1.27	1.27	3.01	3.02	4.99	5	10.08	10.04	-	-	-	-
Middle CH	1.26	1.25	3	2.99	4.92	4.94	10	10.08	-	-	-	-
Highest CH	1.26	1.27	3.02	3	5.01	5.02	10.14	10	-	-	-	-



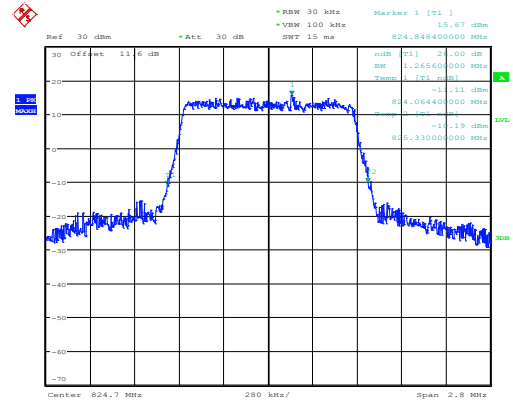
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



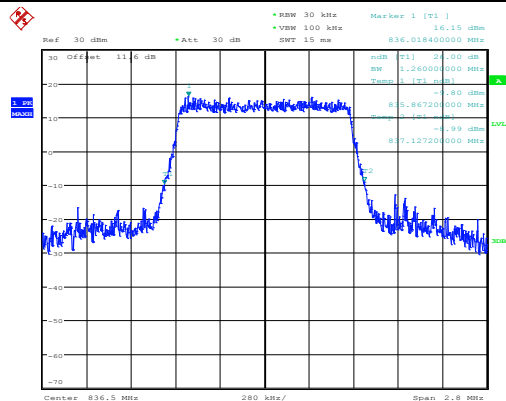
Date: 12.JAN.2015 12:08:13

Lowest Channel / 1.4MHz / 16QAM



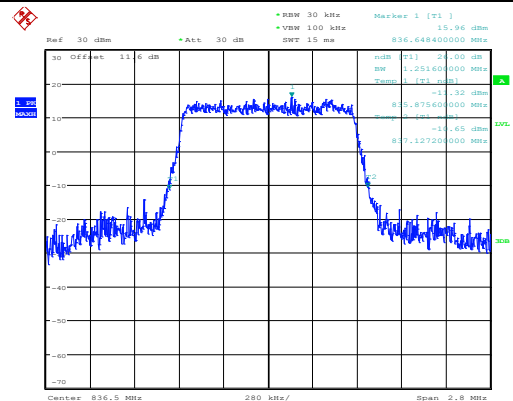
Date: 12.JAN.2015 12:08:00

Middle Channel / 1.4MHz / QPSK



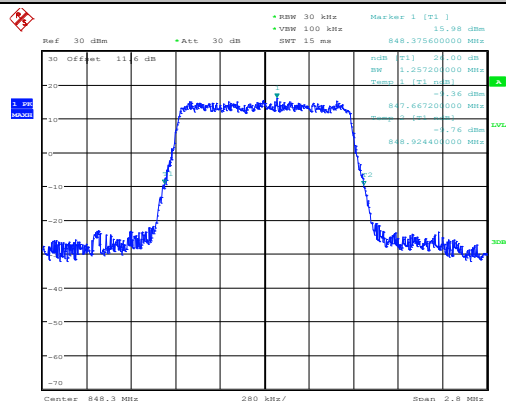
Date: 12.JAN.2015 12:15:51

Middle Channel / 1.4MHz / 16QAM



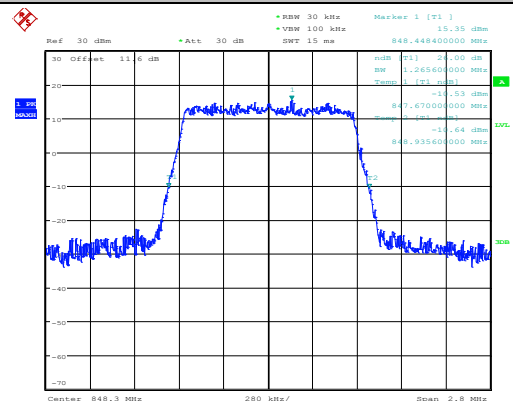
Date: 12.JAN.2015 12:16:04

Highest Channel / 1.4MHz / QPSK



Date: 12.JAN.2015 12:18:58

Highest Channel / 1.4MHz / 16QAM

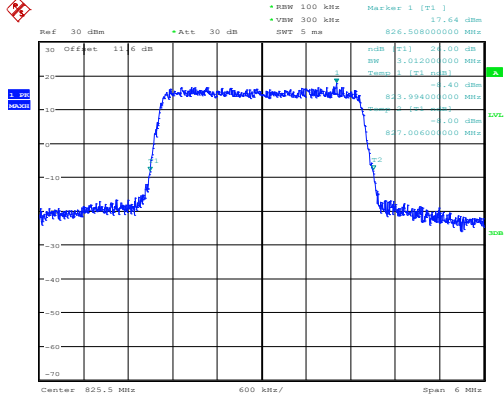


Date: 12.JAN.2015 12:19:11



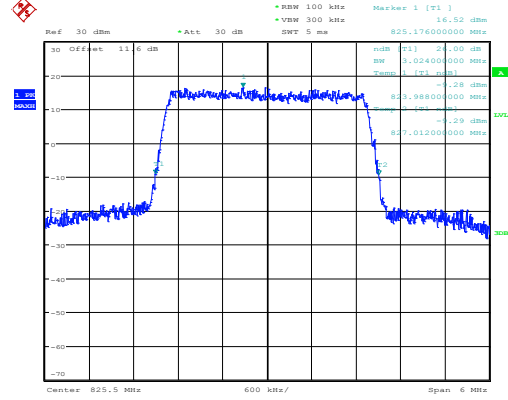
LTE Band 5

Lowest Channel / 3MHz / QPSK



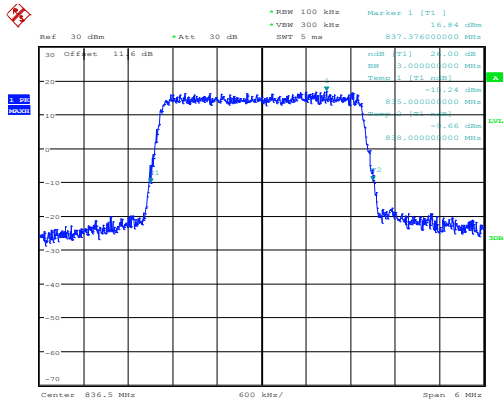
Date: 12.JAN.2015 11:00:44

Lowest Channel / 3MHz / 16QAM



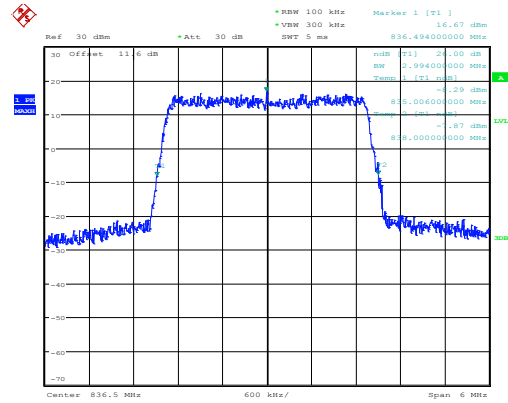
Date: 12.JAN.2015 11:00:56

Middle Channel / 3MHz / QPSK



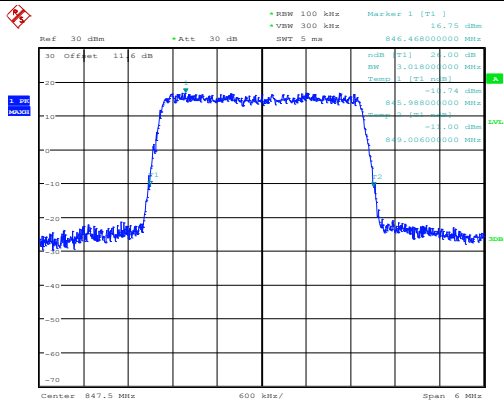
Date: 12.JAN.2015 11:08:30

Middle Channel /3MHz / 16QAM



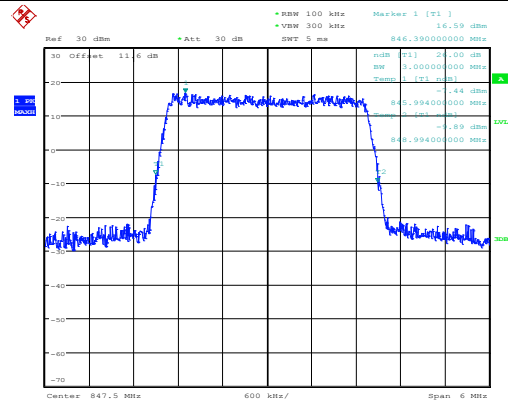
Date: 12.JAN.2015 11:08:43

Highest Channel /3MHz / QPSK



Date: 12.JAN.2015 11:11:37

Highest Channel /3MHz / 16QAM

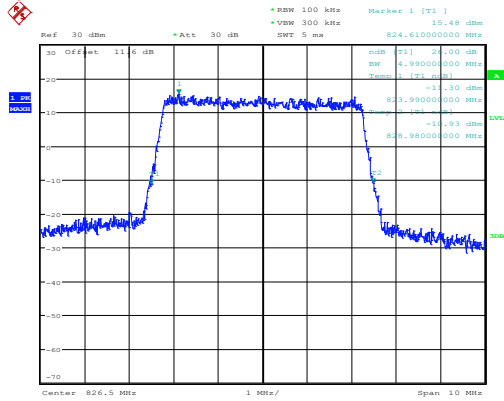


Date: 12.JAN.2015 11:11:50



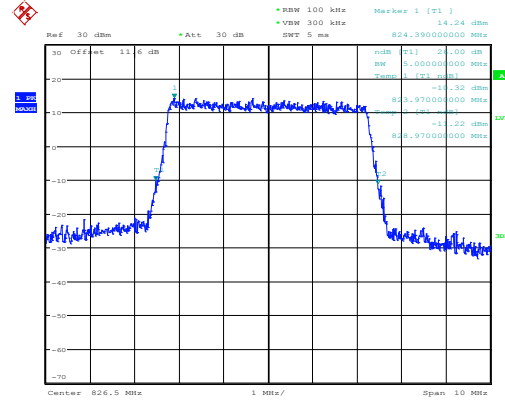
LTE Band 5

Lowest Channel / 5MHz / QPSK



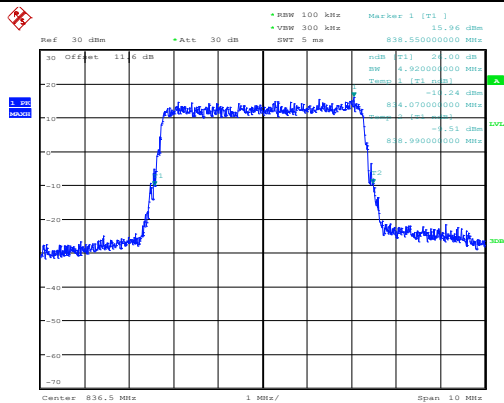
Date: 12.JAN.2015 11:24:24

Lowest Channel / 5MHz / 16QAM



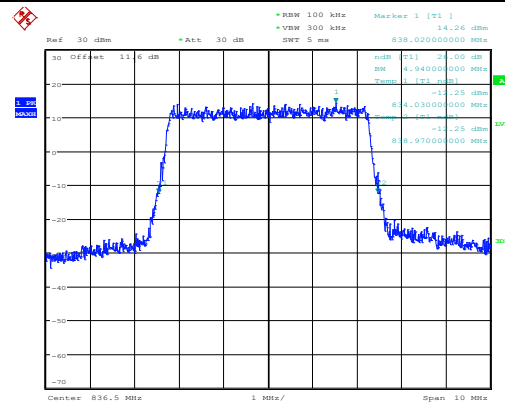
Date: 12.JAN.2015 11:24:36

Middle Channel / 5MHz / QPSK



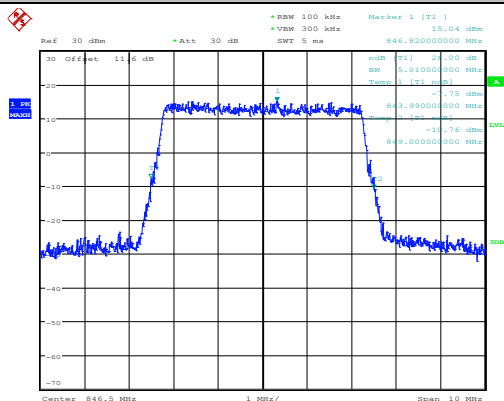
Date: 12.JAN.2015 11:38:04

Middle Channel / 5MHz / 16QAM



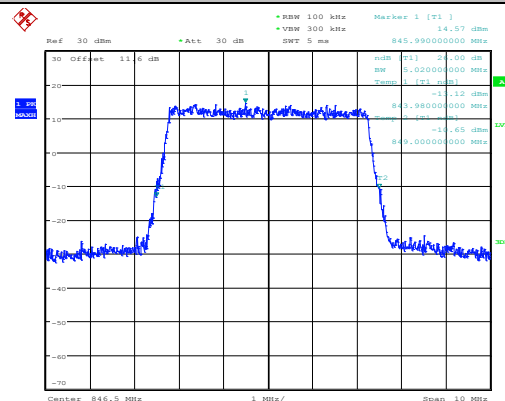
Date: 12.JAN.2015 11:38:17

Highest Channel / 5MHz / QPSK



Date: 12.JAN.2015 11:41:11

Highest Channel / 5MHz / 16QAM

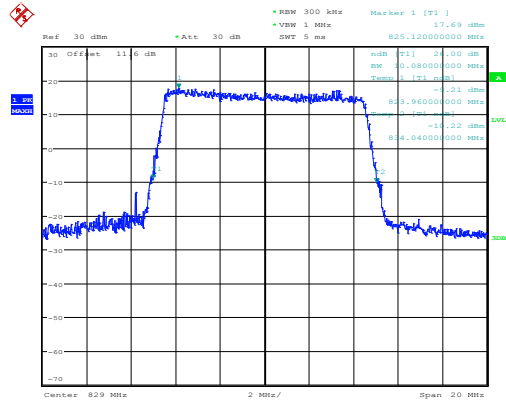


Date: 12.JAN.2015 11:41:24



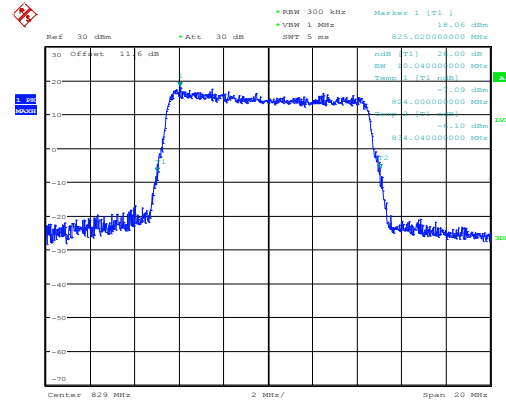
LTE Band 5

Lowest Channel / 10MHz / QPSK



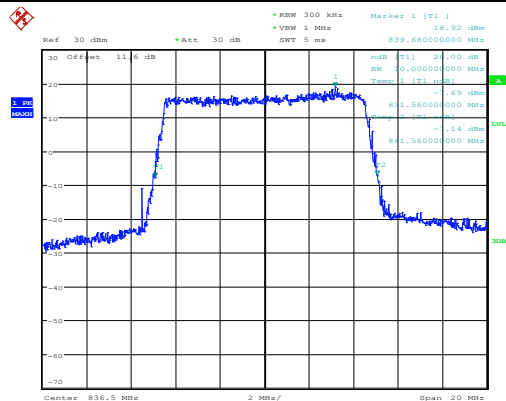
Date: 12.JAN.2015 11:49:15

Lowest Channel / 10MHz / 16QAM



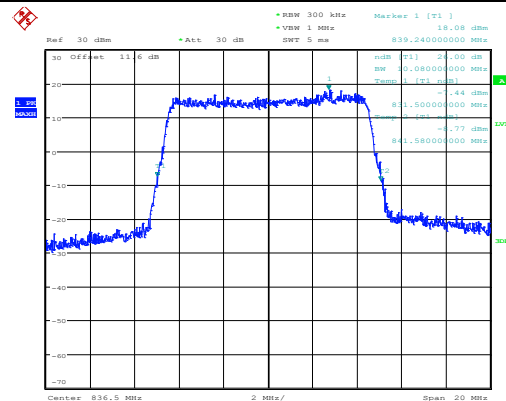
Date: 12.JAN.2015 11:49:28

Middle Channel / 10MHz / QPSK



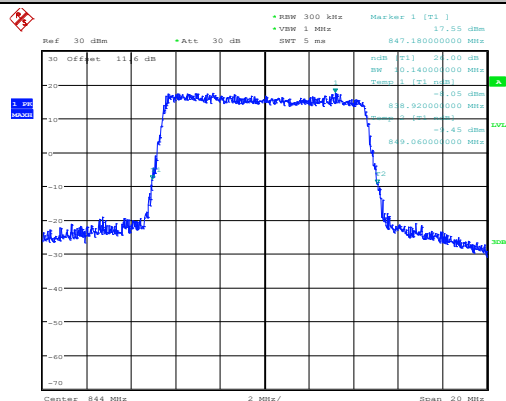
Date: 12.JAN.2015 11:57:02

Middle Channel / 10MHz / 16QAM



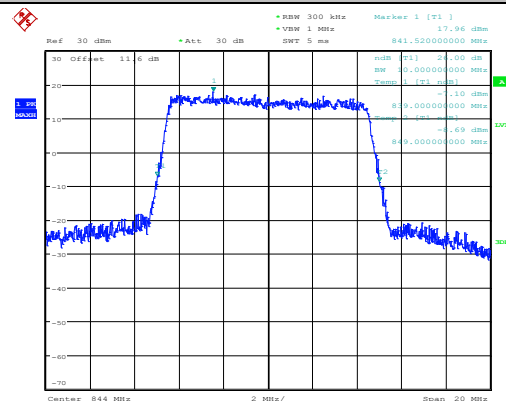
Date: 12.JAN.2015 11:57:15

Highest Channel / 10MHz / QPSK



Date: 12.JAN.2015 12:00:09

Highest Channel / 10MHz / 16QAM



Date: 12.JAN.2015 12:00:22



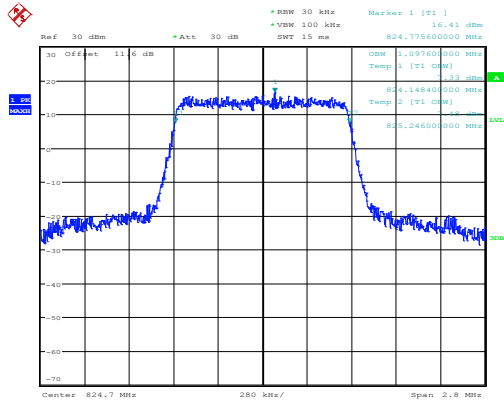
Occupied Bandwidth

Mode	LTE Band 5 : 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	1.1	1.1	2.72	2.72	4.5	4.51	9.1	9.06	-	-	-	-
Middle CH	1.09	1.09	2.73	2.73	4.5	4.5	9.1	9.06	-	-	-	-
Highest CH	1.1	1.1	2.72	2.72	4.5	4.51	9.08	9.06	-	-	-	-



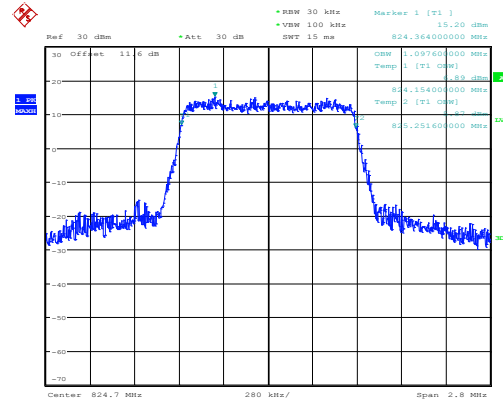
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



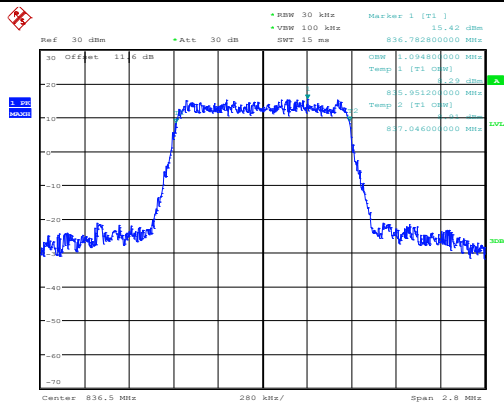
Date: 12.JAN.2015 12:07:36

Lowest Channel / 1.4MHz / 16QAM



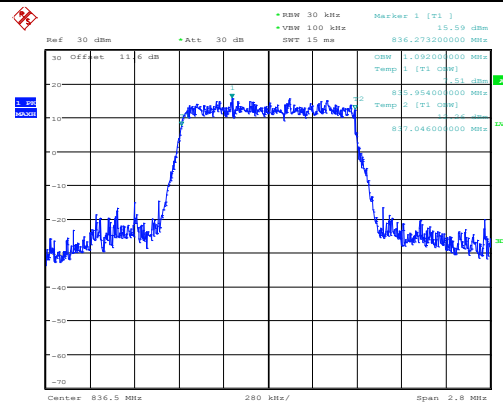
Date: 12.JAN.2015 12:07:47

Middle Channel / 1.4MHz / QPSK



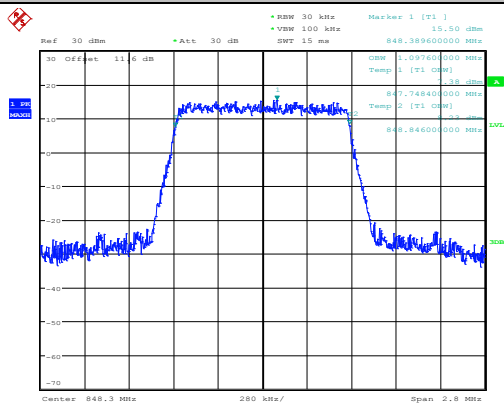
Date: 12.JAN.2015 12:15:27

Middle Channel / 1.4MHz / 16QAM



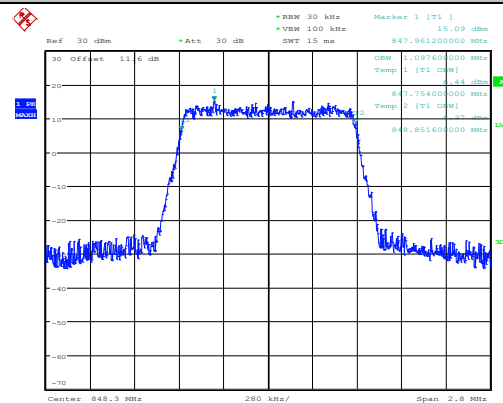
Date: 12.JAN.2015 12:15:38

Highest Channel / 1.4MHz / QPSK



Date: 12.JAN.2015 12:18:35

Highest Channel / 1.4MHz / 16QAM

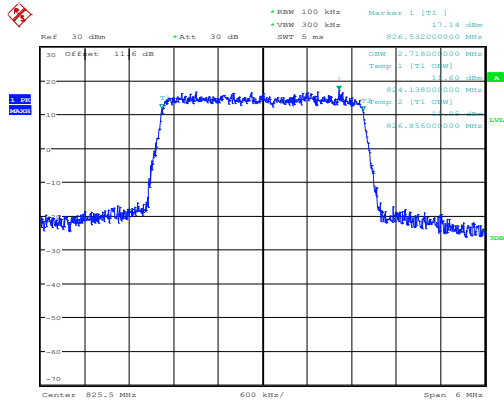


Date: 12.JAN.2015 12:18:46



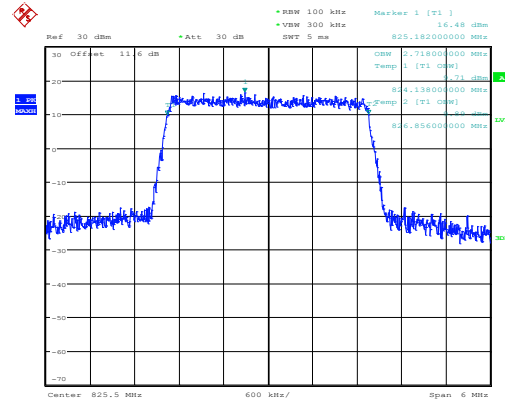
LTE Band 5

Lowest Channel / 3MHz / QPSK



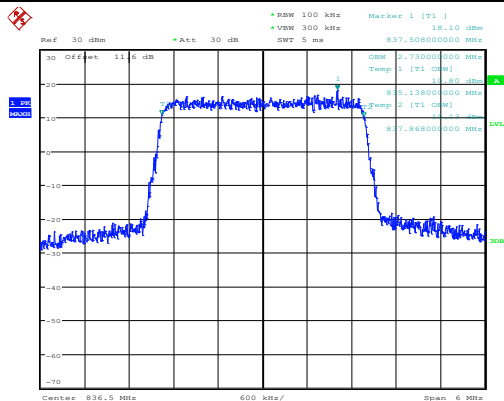
Date: 12.JAN.2015 11:00:20

Lowest Channel / 3MHz / 16QAM



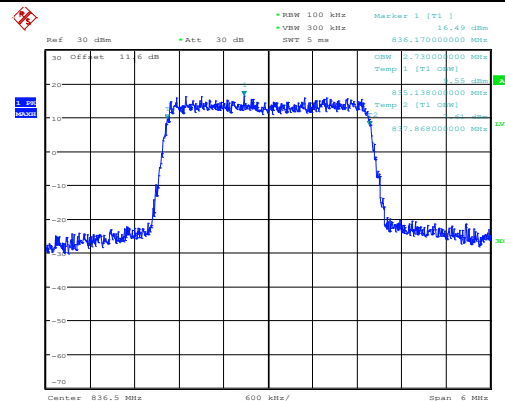
Date: 12.JAN.2015 11:00:31

Middle Channel / 3MHz / QPSK



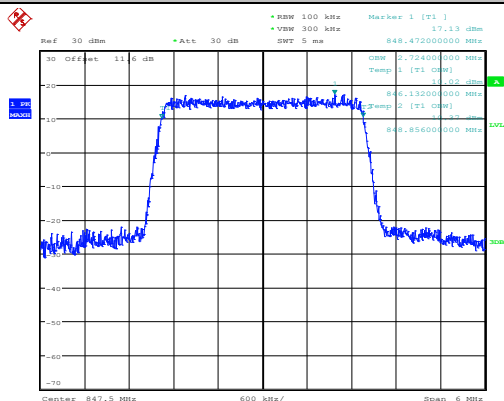
Date: 12.JAN.2015 11:08:07

Middle Channel / 3MHz / 16QAM



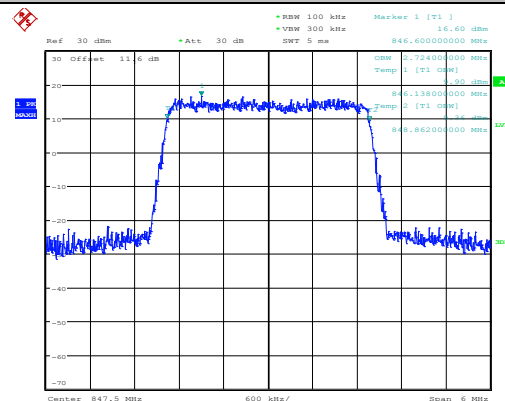
Date: 12.JAN.2015 11:08:17

Highest Channel / 3MHz / QPSK



Date: 12.JAN.2015 11:11:14

Highest Channel / 3MHz / 16QAM

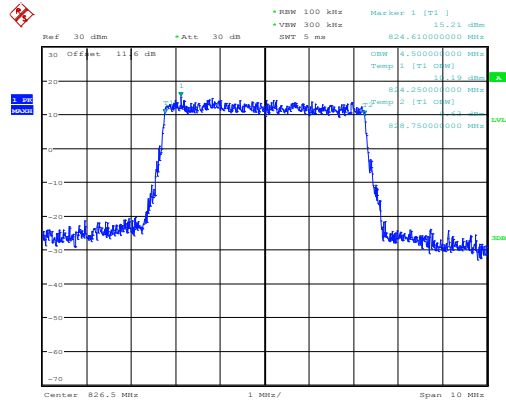


Date: 12.JAN.2015 11:11:25



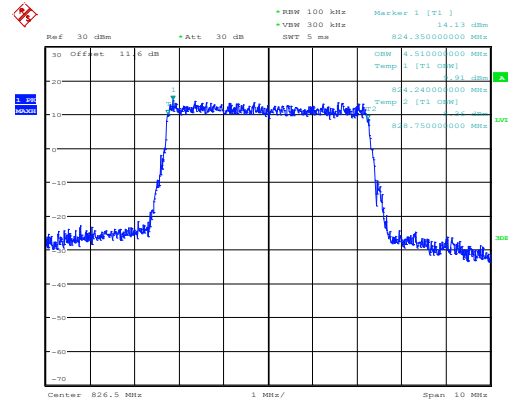
LTE Band 5

Lowest Channel / 5MHz / QPSK



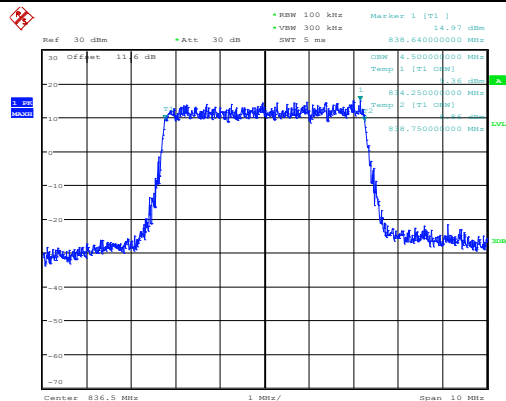
Date: 12.JAN.2015 13:56:07

Lowest Channel / 5MHz / 16QAM



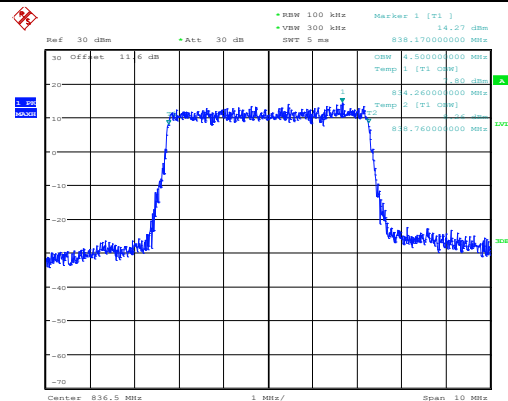
Date: 12.JAN.2015 11:24:11

Middle Channel / 5MHz / QPSK



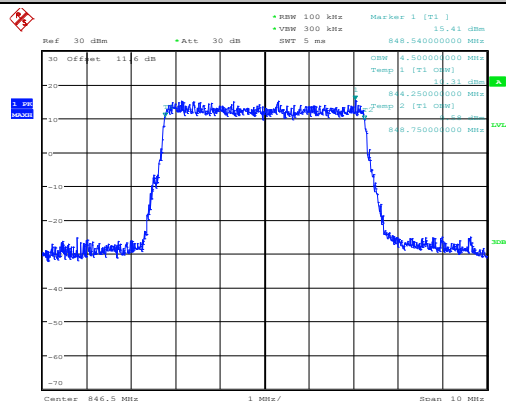
Date: 12.JAN.2015 13:57:07

Middle Channel / 5MHz / 16QAM



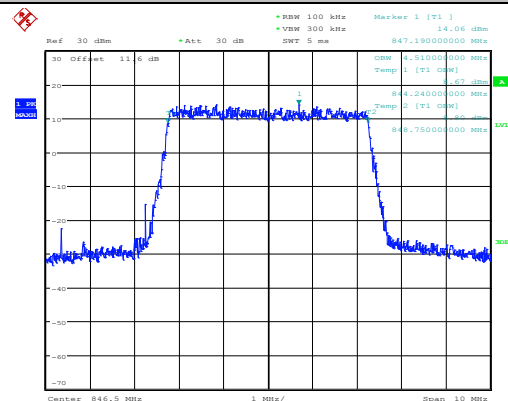
Date: 12.JAN.2015 11:37:51

Highest Channel / 5MHz / QPSK



Date: 12.JAN.2015 11:40:48

Highest Channel / 5MHz / 16QAM

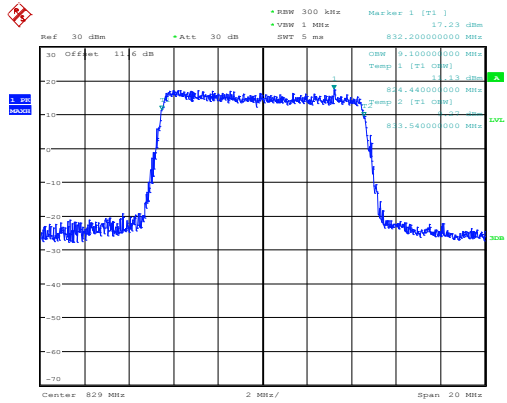


Date: 12.JAN.2015 11:40:58



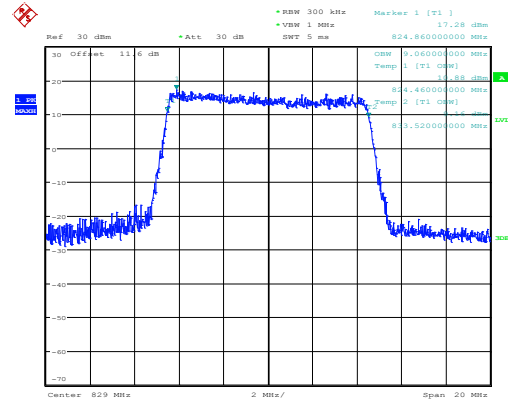
LTE Band 5

Lowest Channel / 10MHz / QPSK



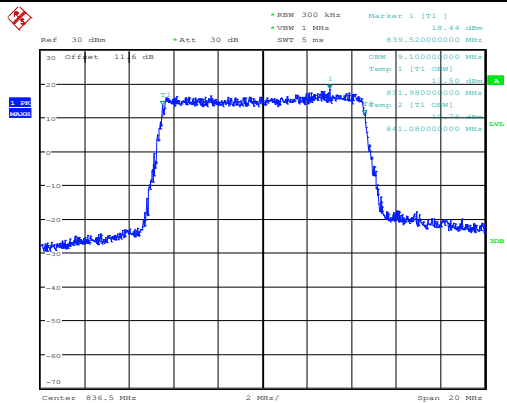
Date: 12.JAN.2015 14:00:05

Lowest Channel / 10MHz / 16QAM



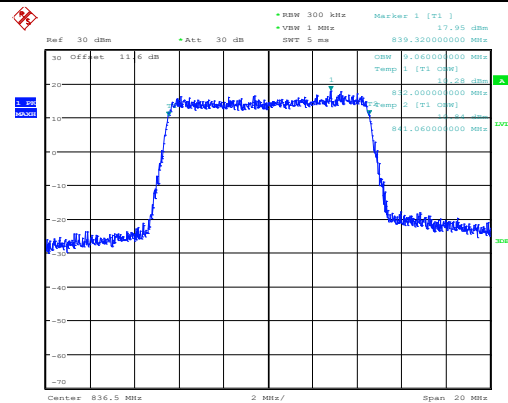
Date: 12.JAN.2015 11:49:02

Middle Channel / 10MHz / QPSK



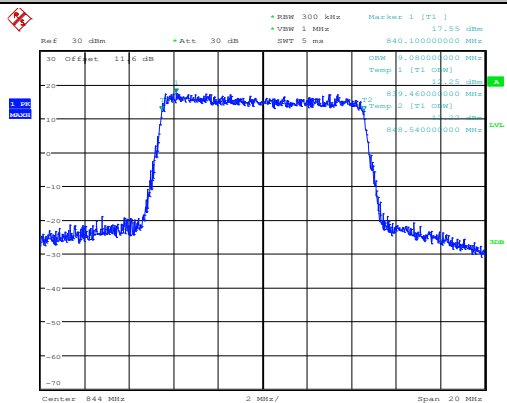
Date: 12.JAN.2015 11:56:39

Middle Channel / 10MHz / 16QAM



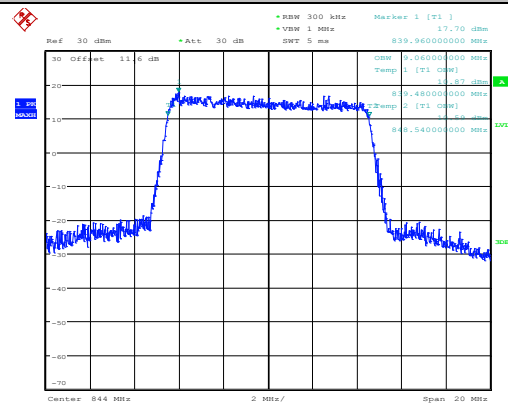
Date: 12.JAN.2015 11:56:50

Highest Channel / 10MHz / QPSK



Date: 12.JAN.2015 11:59:46

Highest Channel / 10MHz / 16QAM



Date: 12.JAN.2015 11:59:57

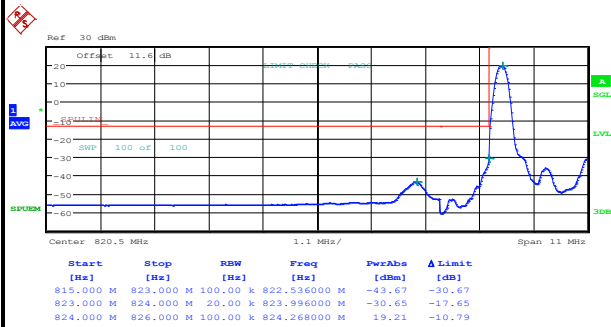


Conducted Band Edge



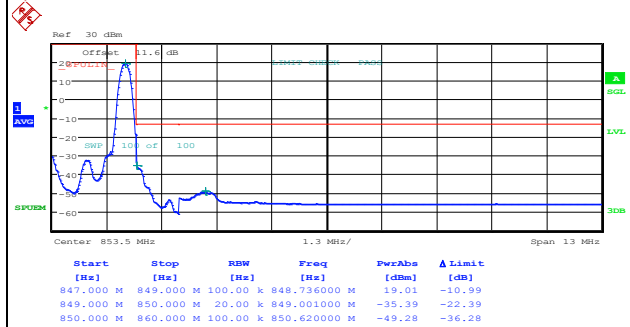
LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



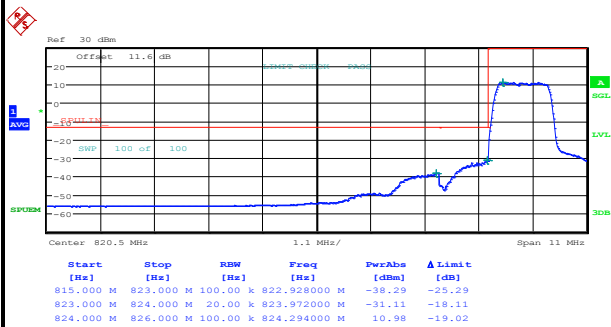
Date: 12.JAN.2015 12:09:22

Highest Band Edge / 1RB



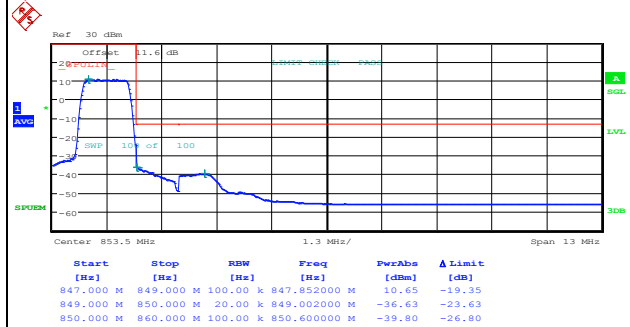
Date: 12.JAN.2015 12:22:41

Lowest Band Edge / Full RB



Date: 12.JAN.2015 12:11:42

Highest Band Edge / Full RB

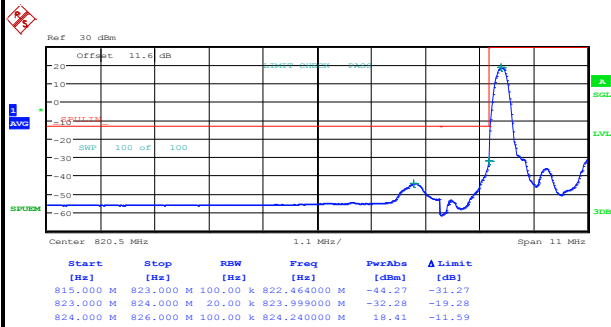


Date: 12.JAN.2015 12:20:21



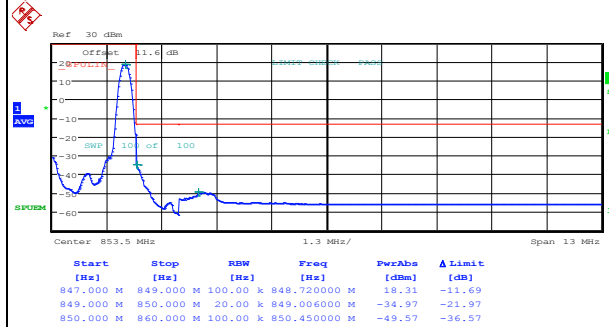
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



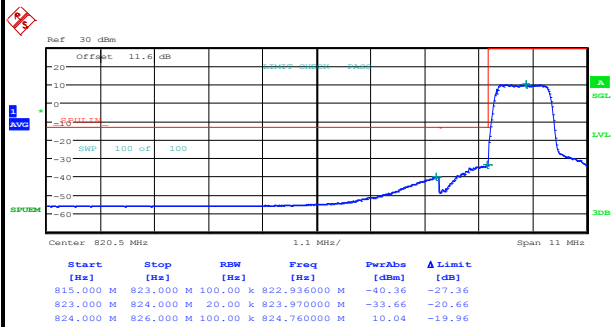
Date: 12.JAN.2015 12:10:32

Highest Band Edge / 1 RB



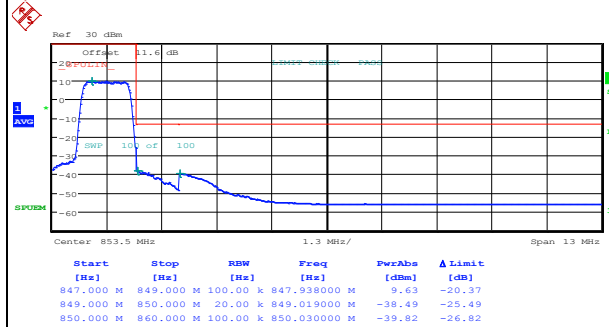
Date: 12.JAN.2015 12:23:51

Lowest Band Edge / Full RB



Date: 12.JAN.2015 12:12:53

Highest Band Edge / Full RB

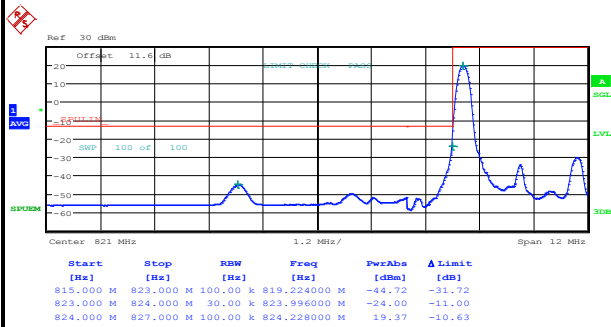


Date: 12.JAN.2015 12:21:31



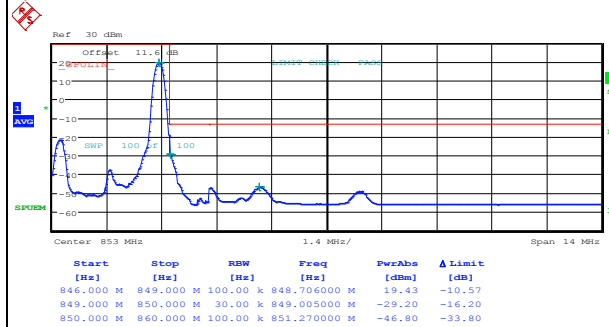
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



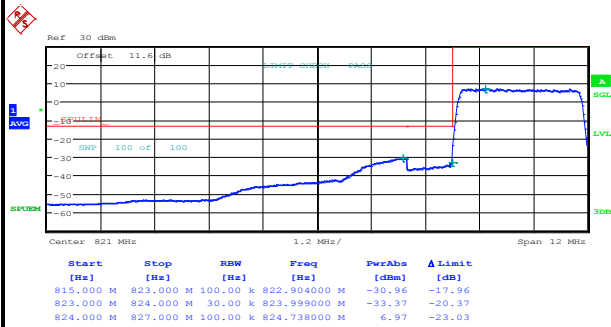
Date: 12.JAN.2015 11:02:06

Highest Band Edge / 1 RB



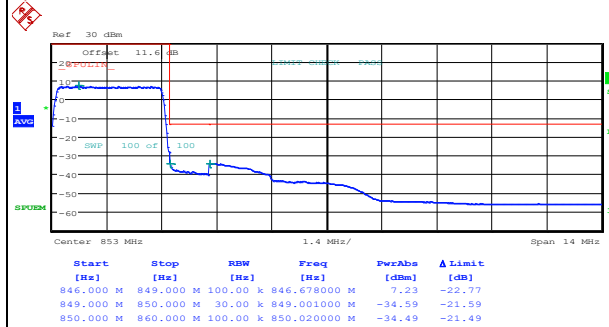
Date: 12.JAN.2015 11:13:00

Lowest Band Edge / Full RB



Date: 12.JAN.2015 11:04:26

Highest Band Edge / Full RB

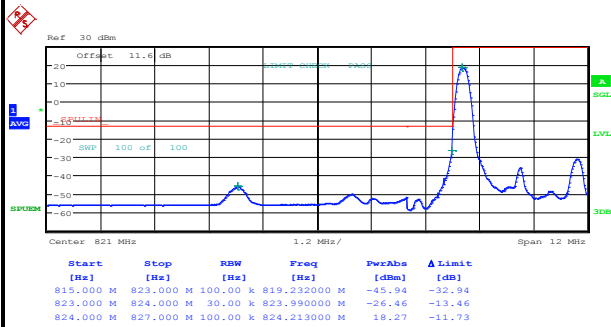


Date: 12.JAN.2015 11:15:20



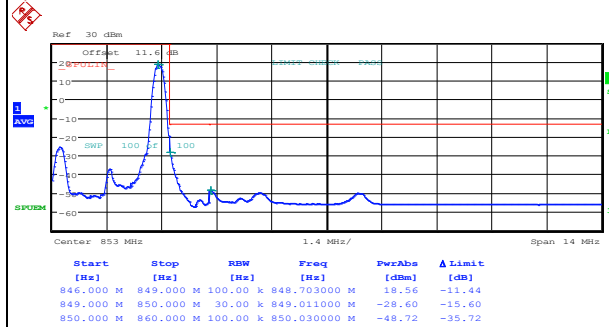
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



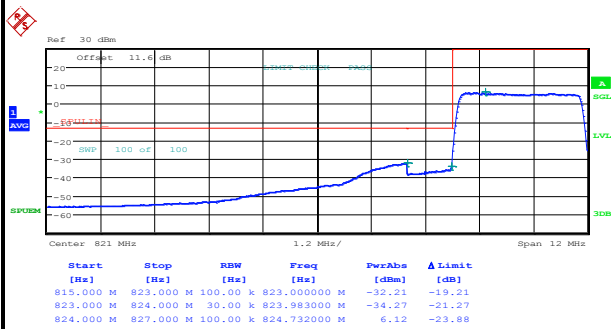
Date: 12.JAN.2015 11:03:16

Highest Band Edge / 1 RB



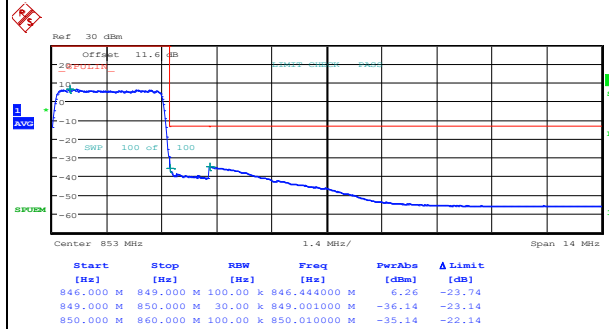
Date: 12.JAN.2015 11:14:10

Lowest Band Edge / Full RB



Date: 12.JAN.2015 11:05:36

Highest Band Edge / Full RB

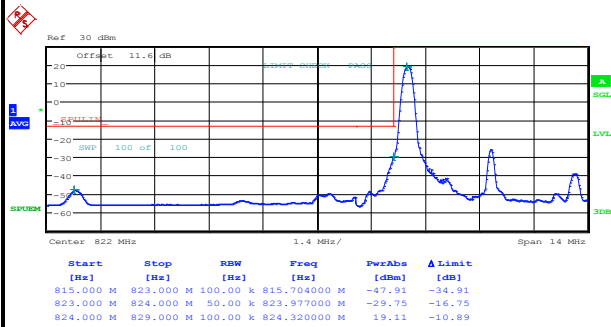


Date: 12.JAN.2015 11:16:30



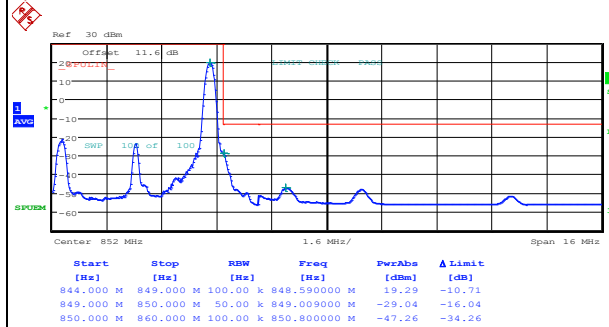
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



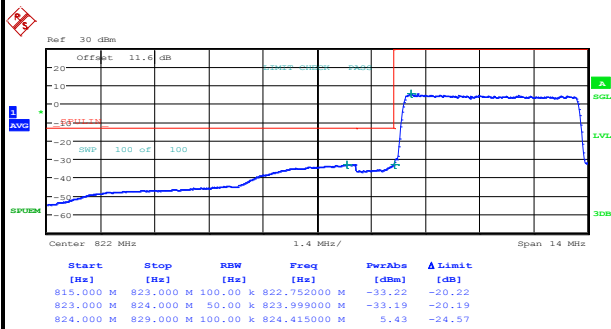
Date: 12.JAN.2015 11:25:46

Highest Band Edge / 1 RB



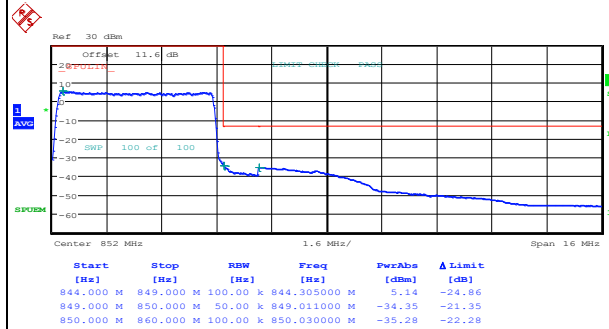
Date: 12.JAN.2015 11:42:34

Lowest Band Edge / Full RB



Date: 12.JAN.2015 11:28:06

Highest Band Edge / Full RB

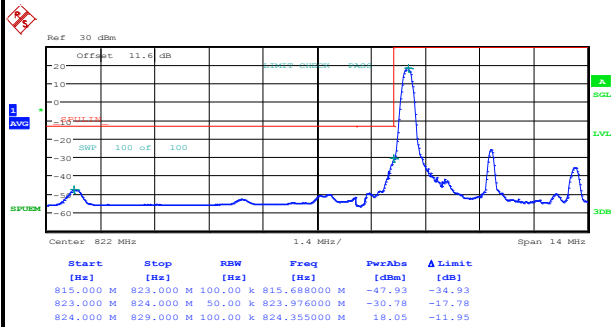


Date: 12.JAN.2015 11:44:54



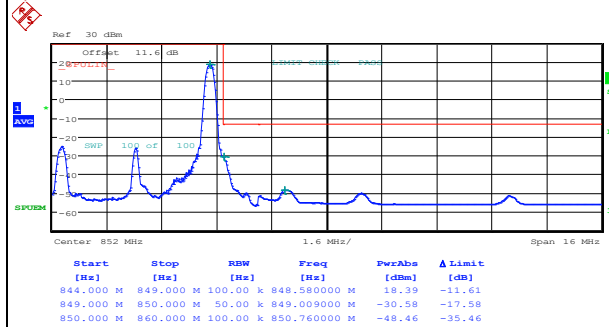
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



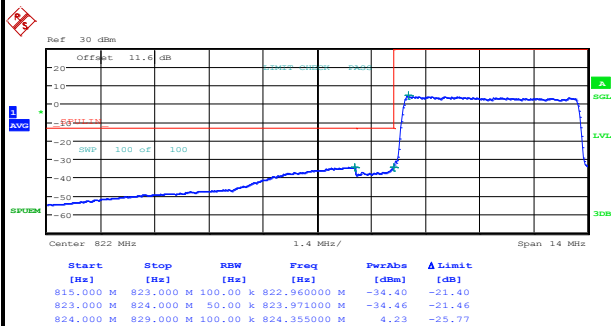
Date: 12.JAN.2015 11:26:56

Highest Band Edge / 1 RB



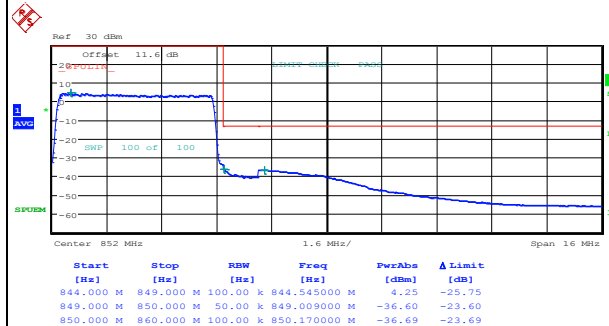
Date: 12.JAN.2015 11:43:44

Lowest Band Edge / Full RB



Date: 12.JAN.2015 11:29:16

Highest Band Edge / Full RB

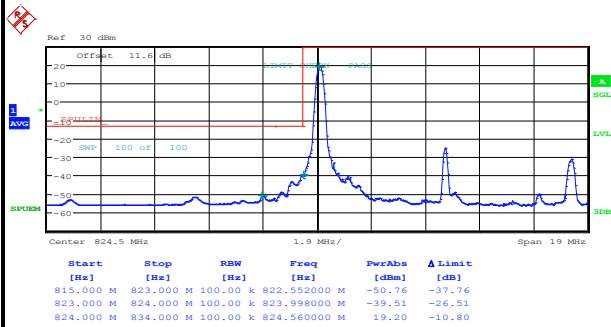


Date: 12.JAN.2015 11:46:04



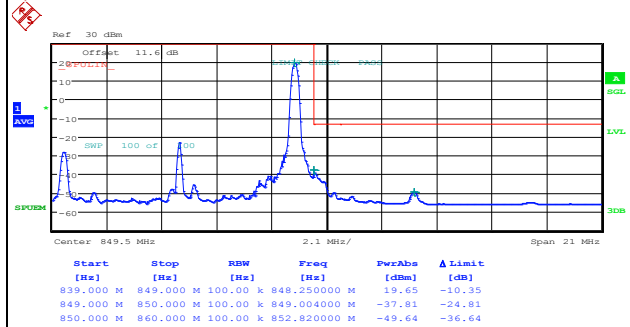
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



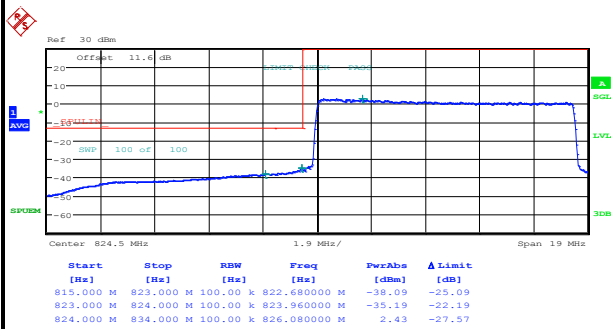
Date: 12.JAN.2015 11:50:38

Highest Band Edge / 1 RB



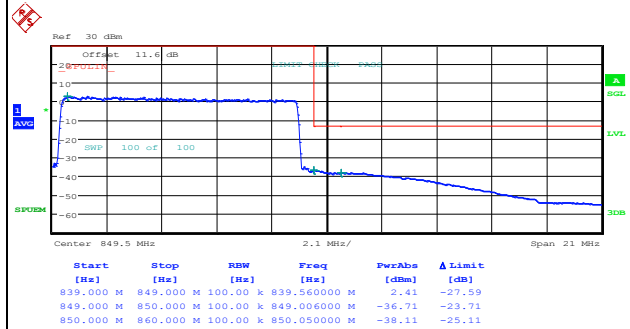
Date: 12.JAN.2015 12:01:32

Lowest Band Edge / Full RB



Date: 12.JAN.2015 11:52:58

Highest Band Edge / Full RB

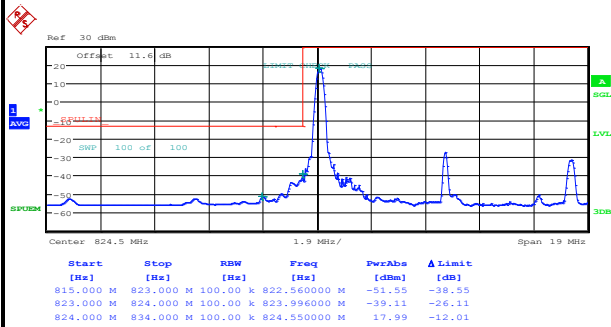


Date: 12.JAN.2015 12:03:52



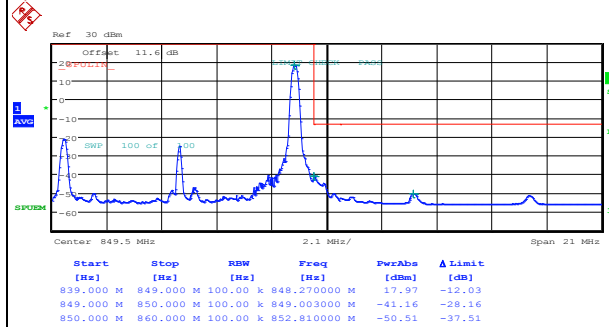
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



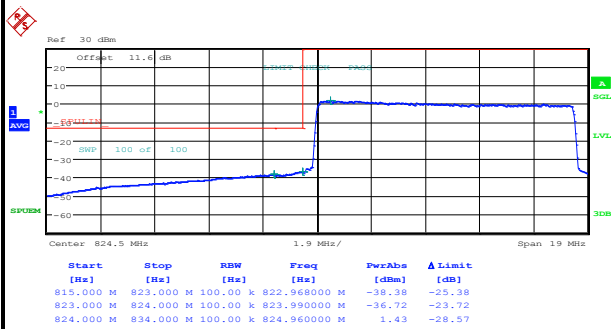
Date: 12.JAN.2015 11:51:48

Highest Band Edge / 1 RB



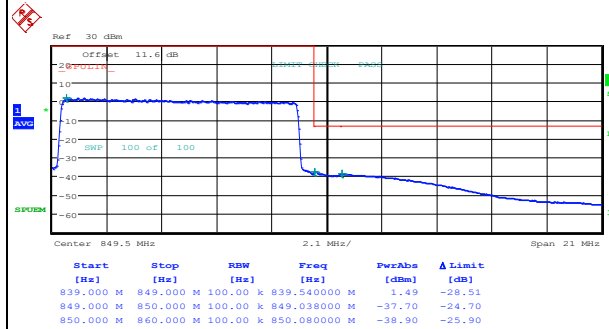
Date: 12.JAN.2015 12:02:42

Lowest Band Edge / Full RB



Date: 12.JAN.2015 11:54:08

Highest Band Edge / Full RB



Date: 12.JAN.2015 12:05:01

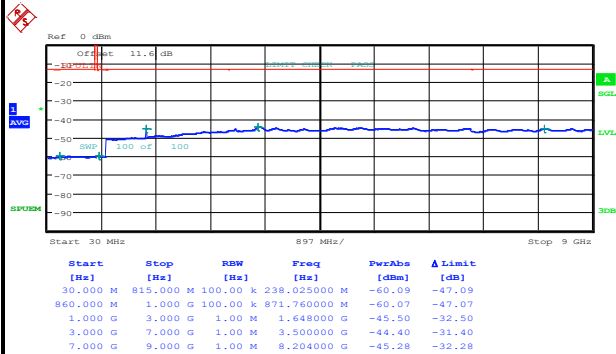


Conducted Spurious Emission



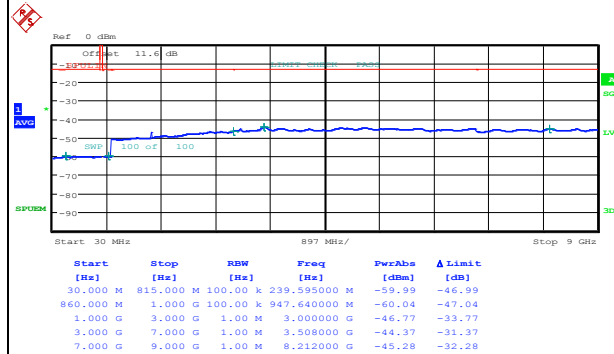
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



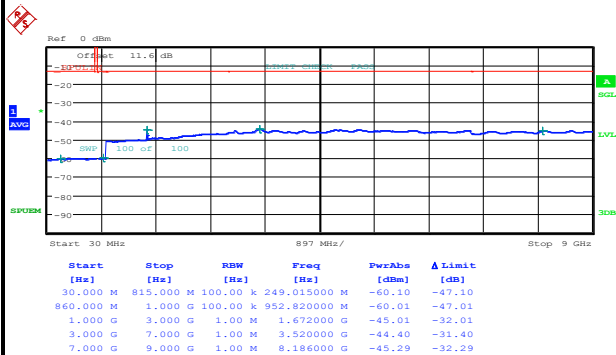
Date: 12.JAN.2015 12:14:05

Lowest Channel / 16QAM



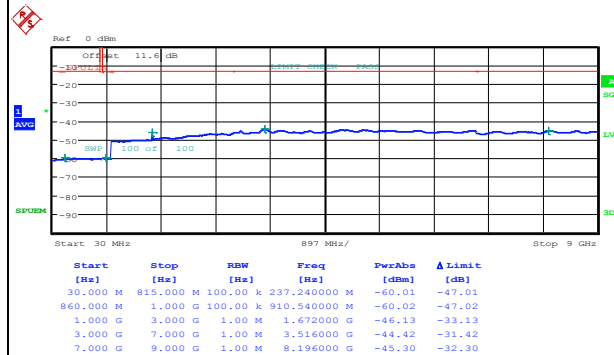
Date: 12.JAN.2015 12:15:16

Middle Channel / QPSK



Date: 12.JAN.2015 12:17:13

Middle Channel / 16QAM

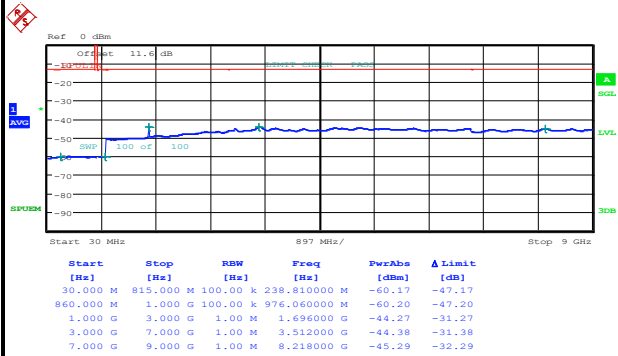


Date: 12.JAN.2015 12:18:24



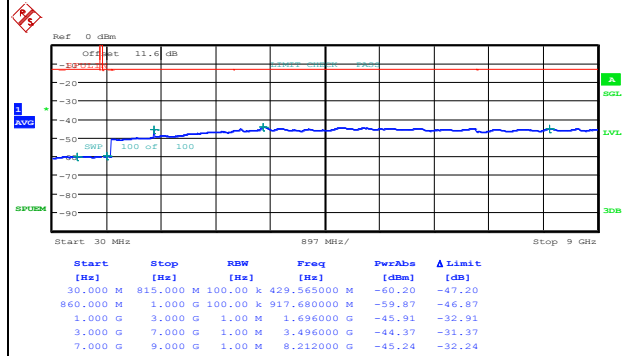
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 12.JAN.2015 12:25:00

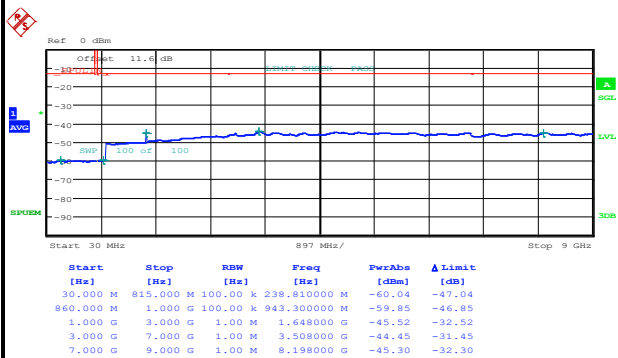
Highest Channel / 16QAM



Date: 12.JAN.2015 12:26:11

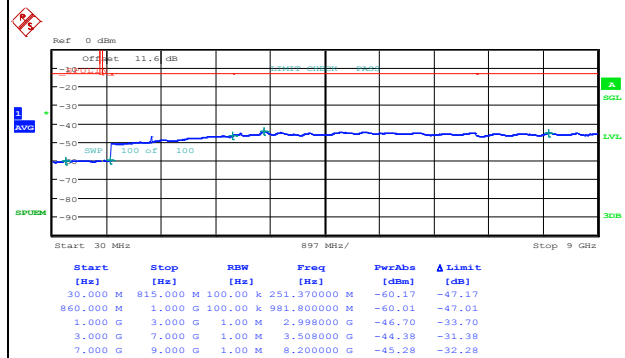
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 12.JAN.2015 11:06:46

Lowest Channel / 16QAM

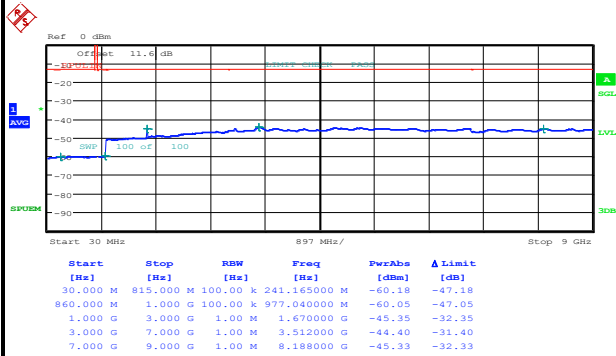


Date: 12.JAN.2015 11:07:56



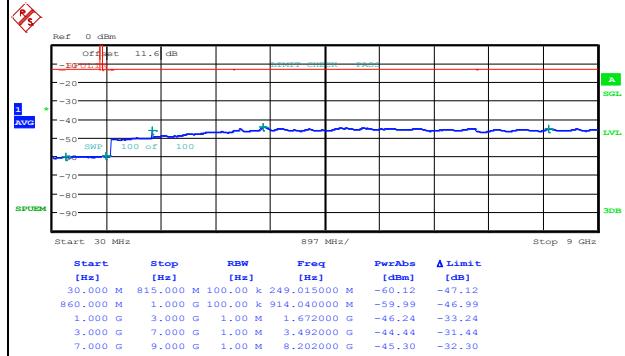
LTE Band 5 / 3MHz

Middle Channel / QPSK



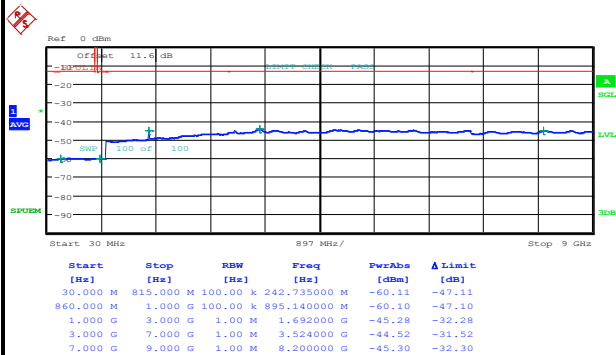
Date: 12.JAN.2015 11:09:53

Middle Channel / 16QAM



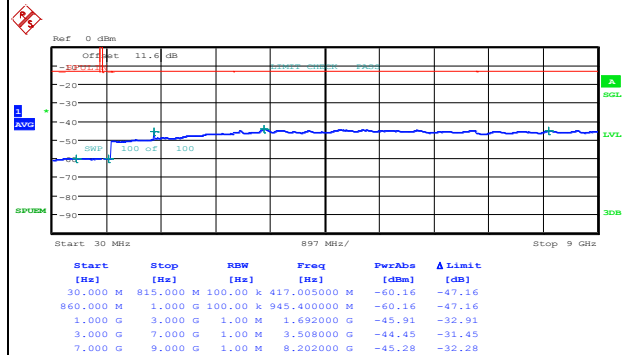
Date: 12.JAN.2015 11:11:03

Highest Channel / QPSK



Date: 12.JAN.2015 11:17:39

Highest Channel / 16QAM

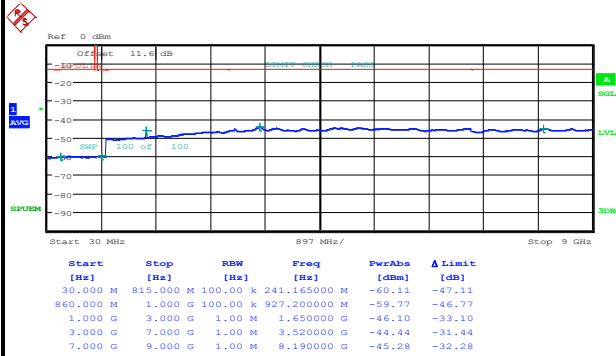


Date: 12.JAN.2015 11:18:50



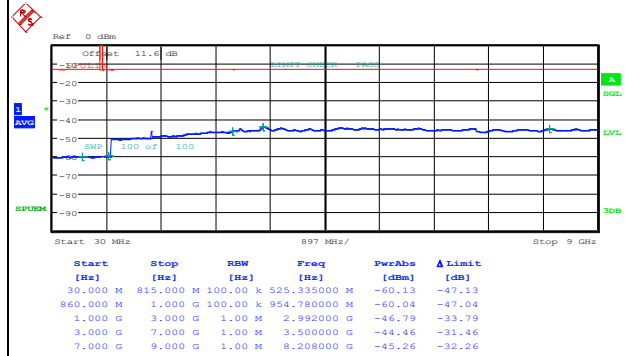
LTE Band 5 / 5MHz

Lowest Channel / QPSK



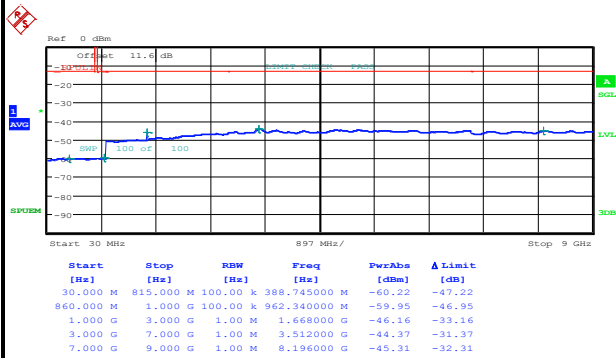
Date: 12.JAN.2015 11:30:25

Lowest Channel / 16QAM



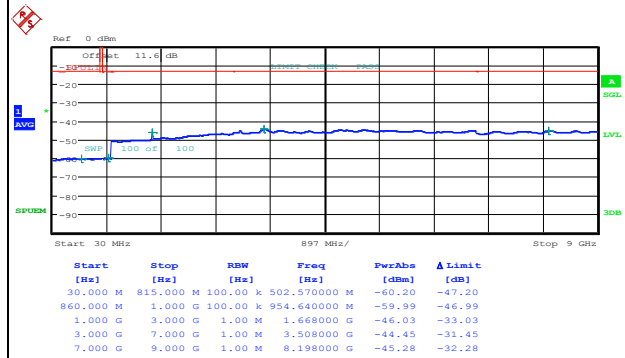
Date: 12.JAN.2015 11:31:35

Middle Channel / QPSK



Date: 12.JAN.2015 11:39:26

Middle Channel / 16QAM

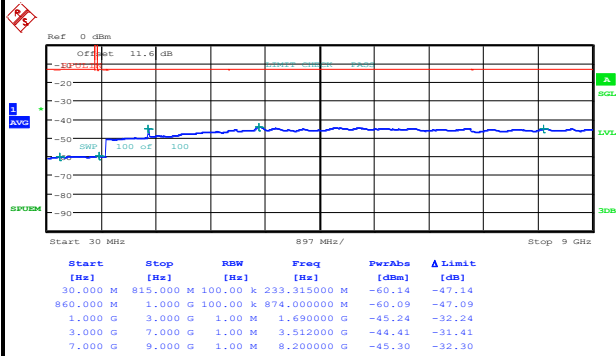


Date: 12.JAN.2015 11:40:37



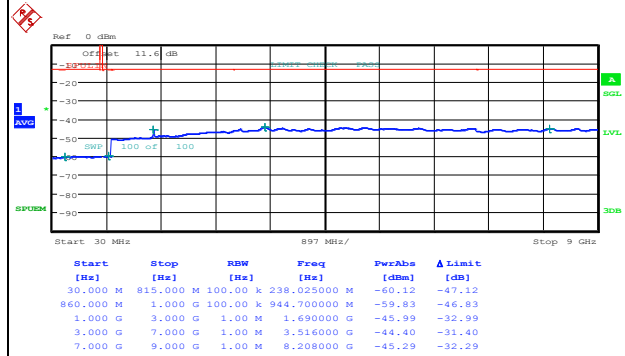
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 12.JAN.2015 11:47:14

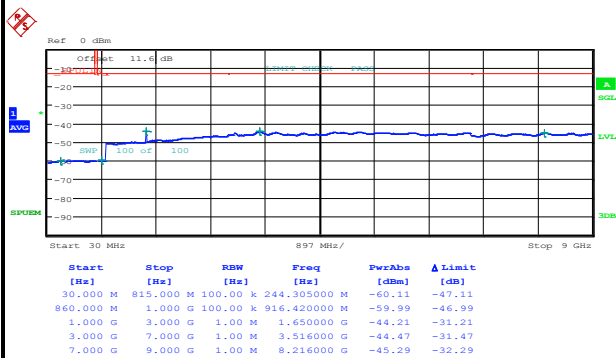
Highest Channel / 16QAM



Date: 12.JAN.2015 11:48:25

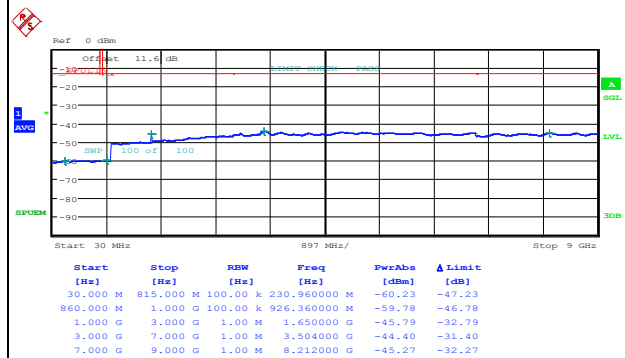
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 12.JAN.2015 11:55:18

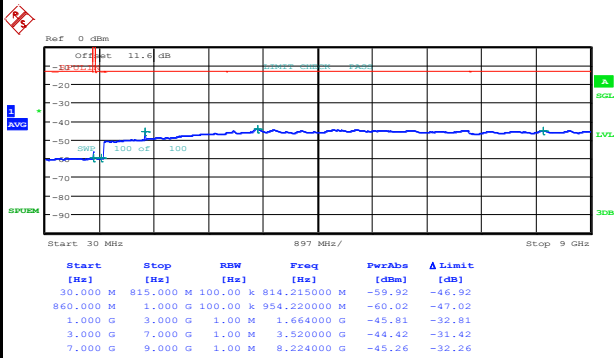
Lowest Channel / 16QAM



Date: 12.JAN.2015 11:56:28

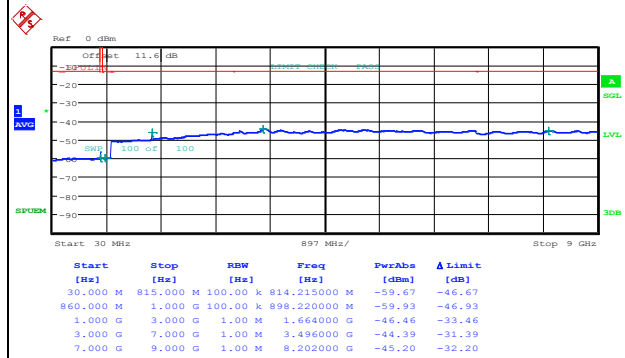
LTE Band 5 / 10MHz

Middle Channel / QPSK



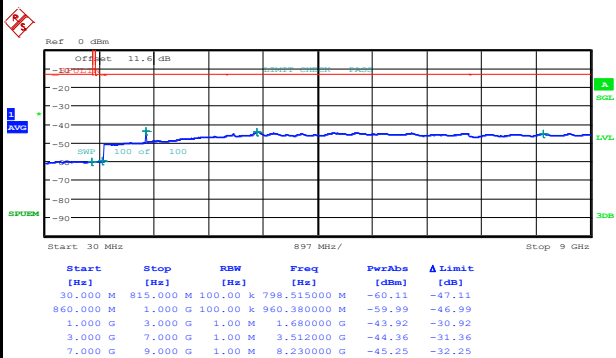
Date: 12.JAN.2015 11:58:25

Middle Channel / 16QAM



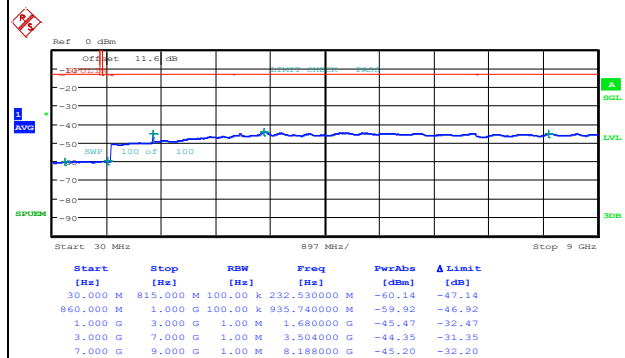
Date: 12.JAN.2015 11:59:35

Highest Channel / QPSK



Date: 12.JAN.2015 12:06:11

Highest Channel / 16QAM



Date: 12.JAN.2015 12:07:21

Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0139	
30	Normal Voltage	0.0033	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0111	
0	Normal Voltage	0.0114	
-10	Normal Voltage	0.0103	
-20	Normal Voltage	0.0158	
-30	Normal Voltage	0.0133	
20	Maximum Voltage	0.0109	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.1 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.