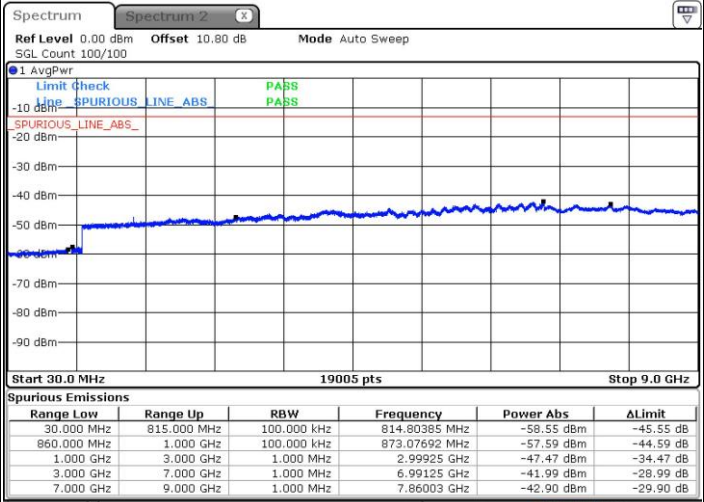
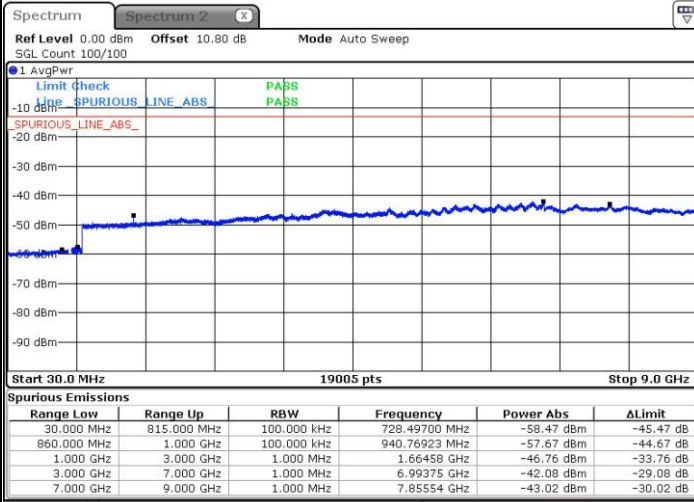




LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

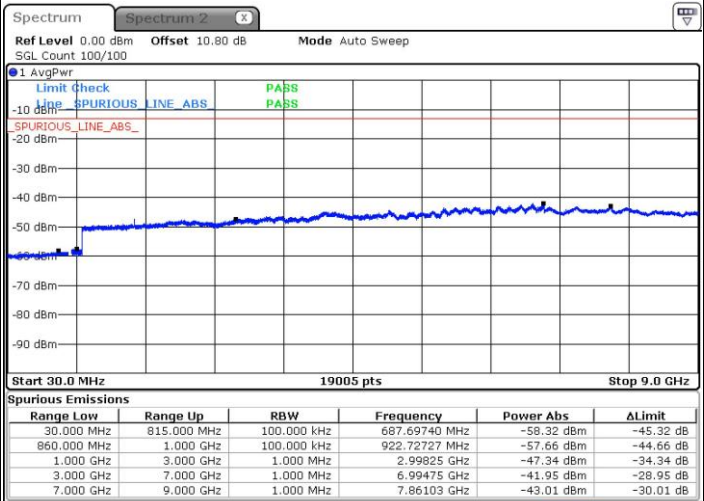
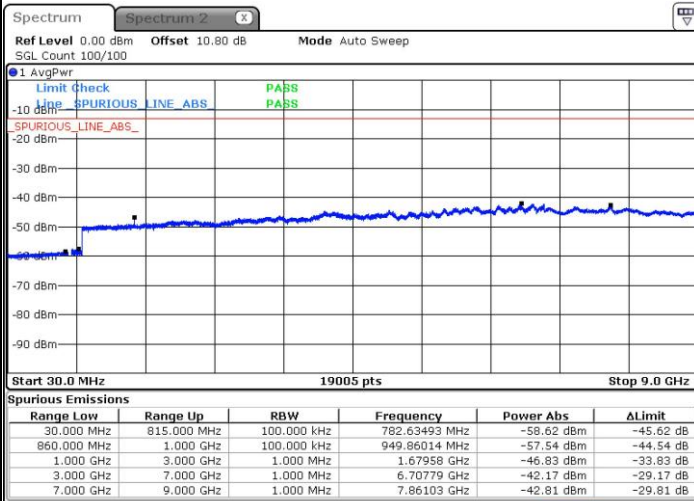


Date: 12.MAY.2017 00:20:08

Date: 12.MAY.2017 00:21:02

Highest Channel / QPSK

Highest Channel / 16QAM



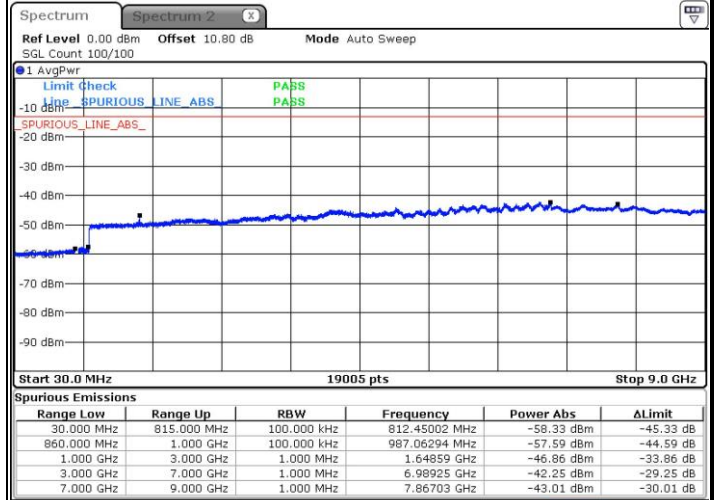
Date: 12.MAY.2017 00:29:14

Date: 12.MAY.2017 00:30:09



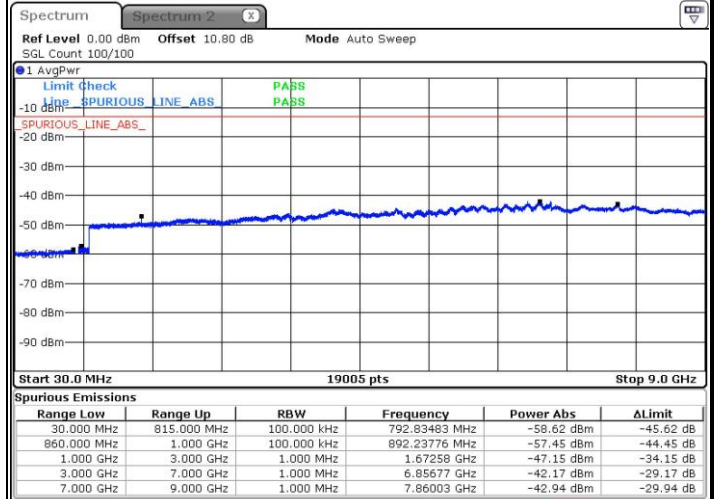
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



Date: 12.MAY.2017 01:13:08

Middle Channel / 64QAM

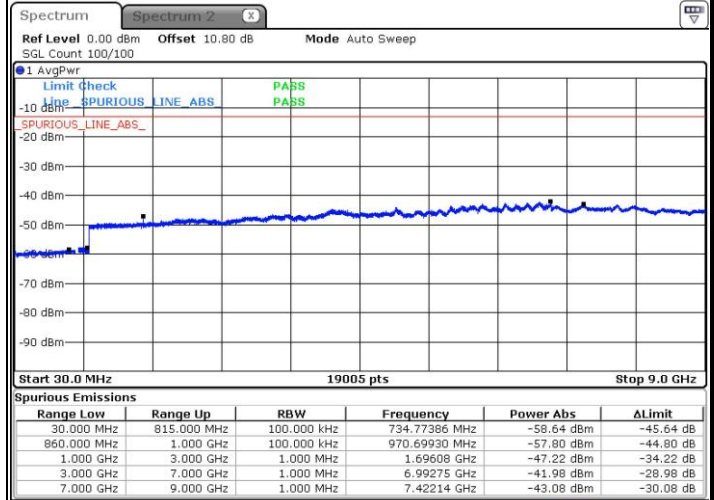


Date: 12.MAY.2017 01:14:23



LTE Band 5 / 1.4MHz

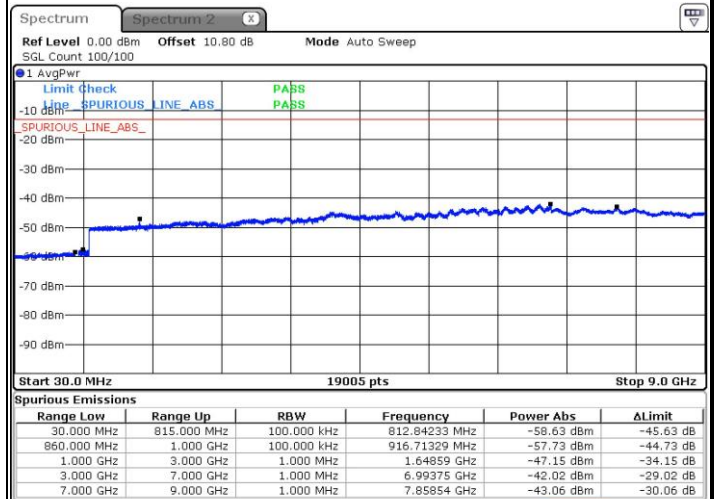
Highest Channel / 64QAM



Date: 12.MAY.2017 01:18:57

LTE Band 5 / 3MHz

Lowest Channel / 64QAM

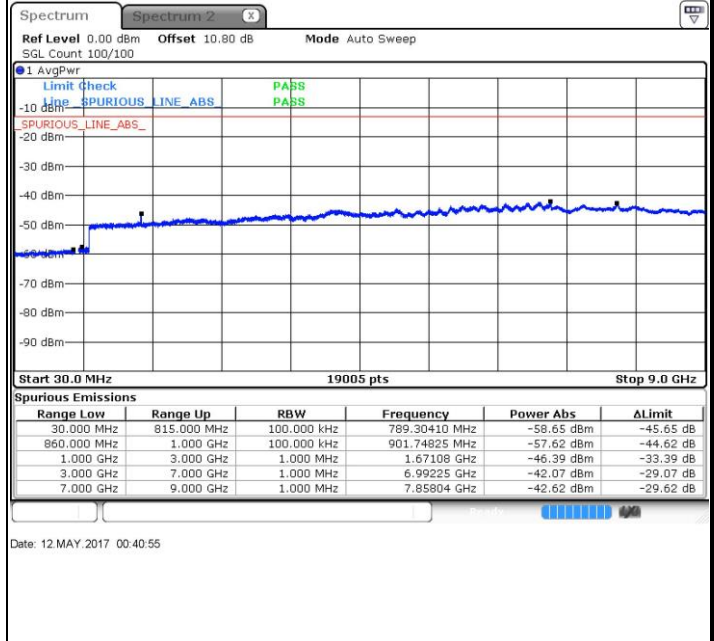


Date: 12.MAY.2017 00:39:40

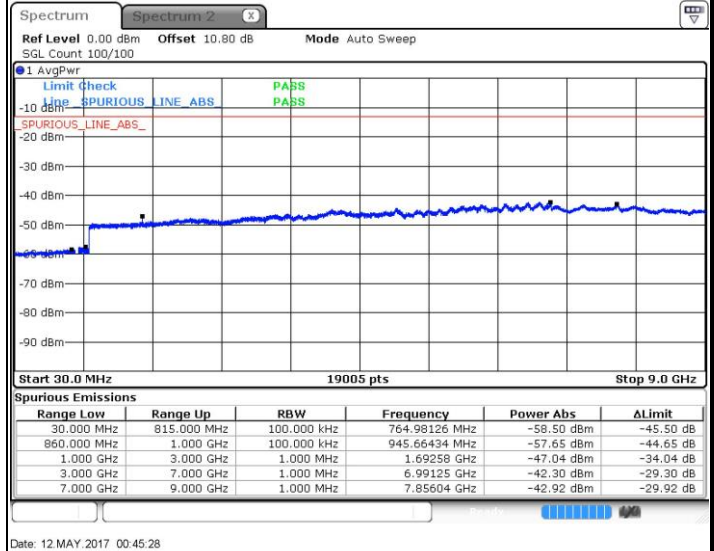


LTE Band 5 / 3MHz

Middle Channel / 64QAM



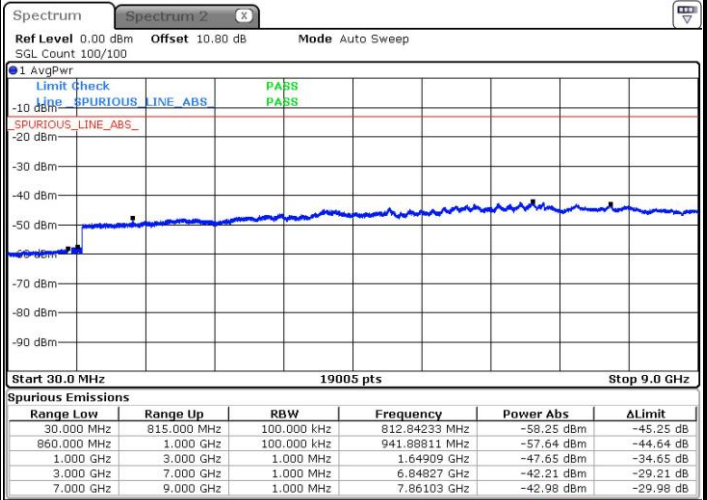
Highest Channel / 64QAM





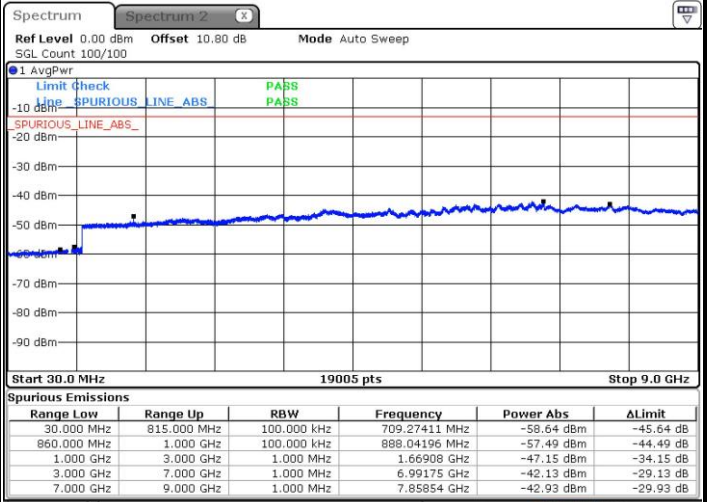
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



Date: 12.MAY.2017 00:50:02

Middle Channel / 64QAM

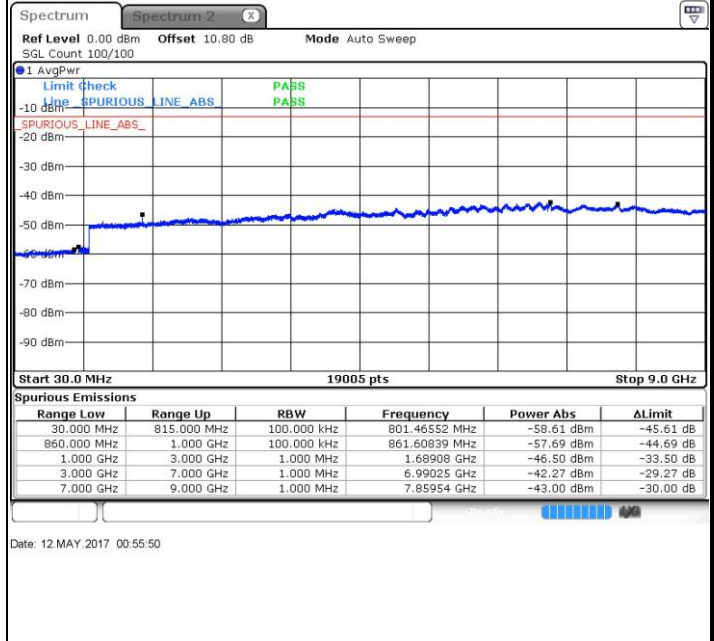


Date: 12.MAY.2017 00:51:17



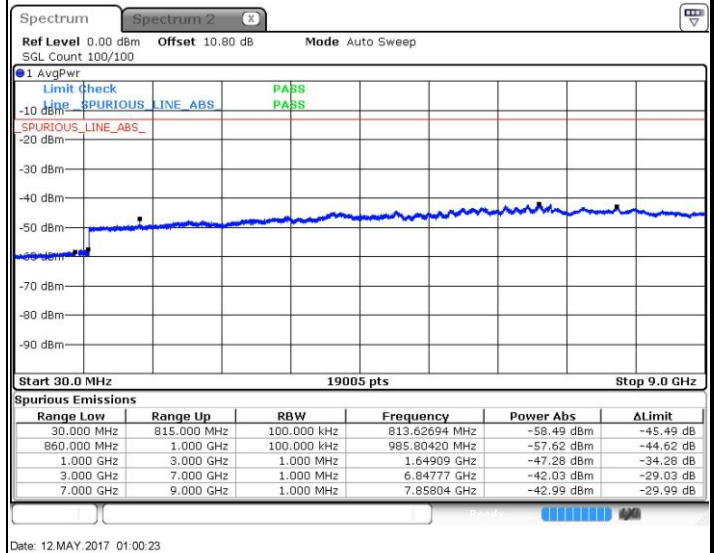
LTE Band 5 / 5MHz

Highest Channel / 64QAM



LTE Band 5 / 10MHz

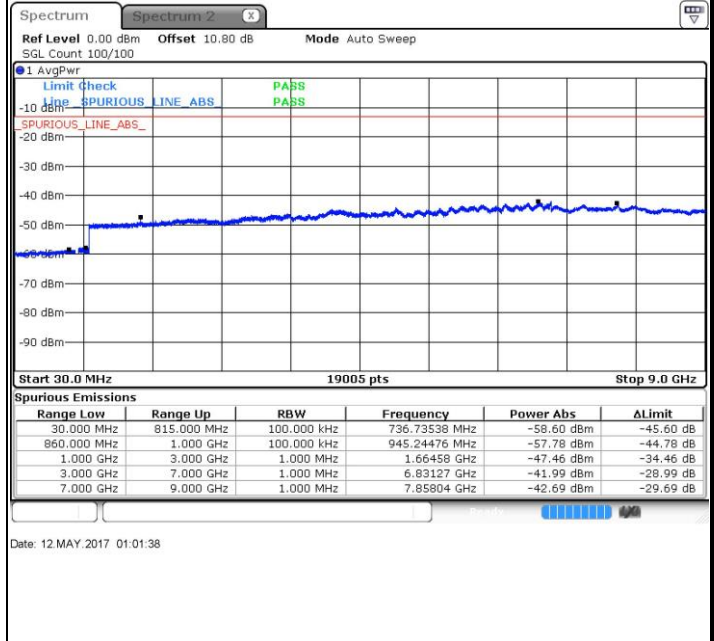
Lowest Channel / 64QAM



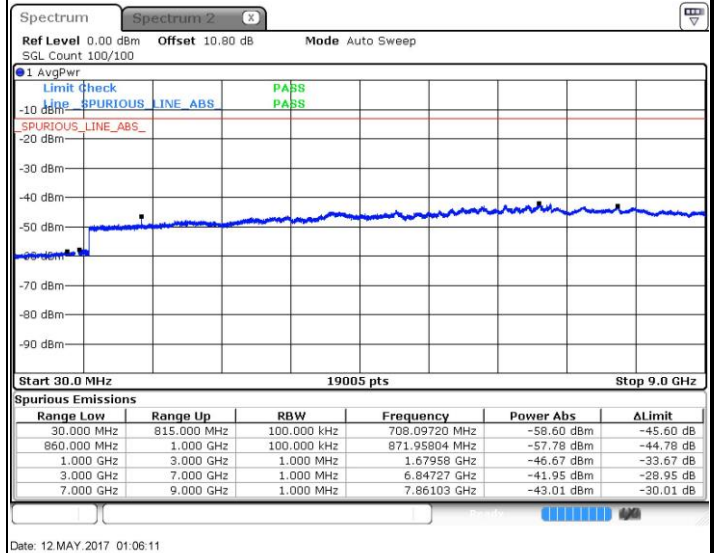


LTE Band 5 / 10MHz

Middle Channel / 64QAM



Highest Channel / 64QAM





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	0.0069	PASS
40	Normal Voltage	0.0049	
30	Normal Voltage	0.0027	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0063	
0	Normal Voltage	0.0075	
-10	Normal Voltage	0.0065	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0056	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0072	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

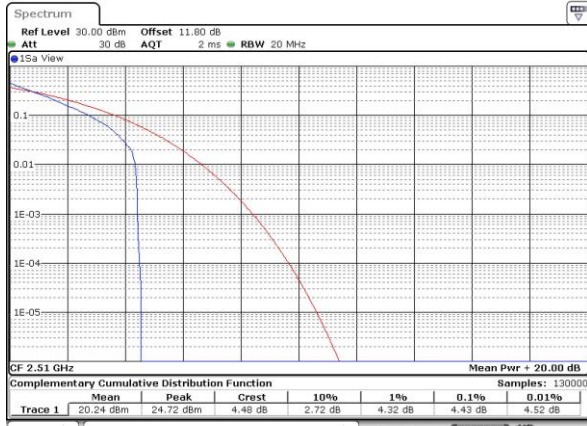
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.43	4.72	5.16	5.86	PASS
Middle CH	4.2	5.04	5.1	5.97	
Highest CH	4.43	5.04	5.16	5.91	
Mod.	-		64QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	4.99	5.77	PASS
Middle CH	-	-	5.07	6.03	
Highest CH	-	-	5.19	5.97	



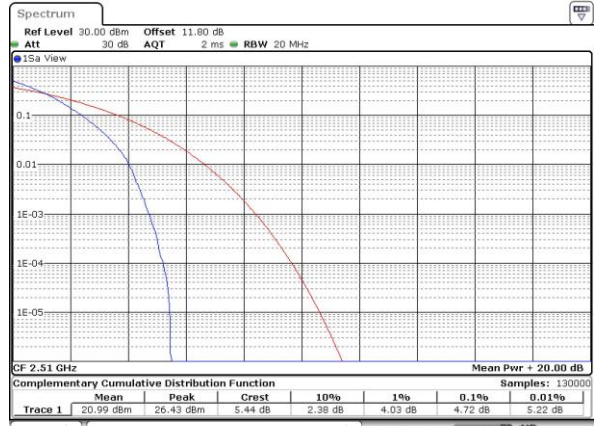
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



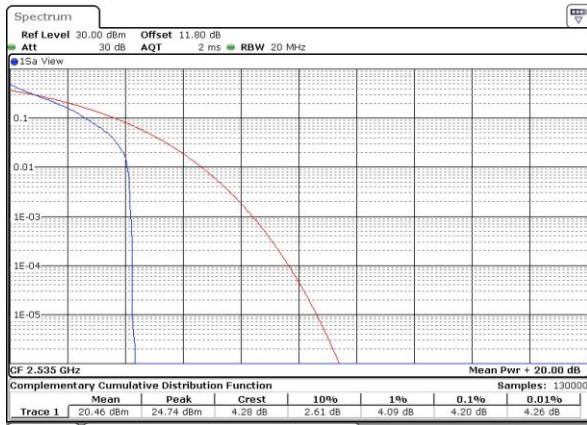
Date: 13 MAY 2017 18:50:45

Lowest Channel / Full RB



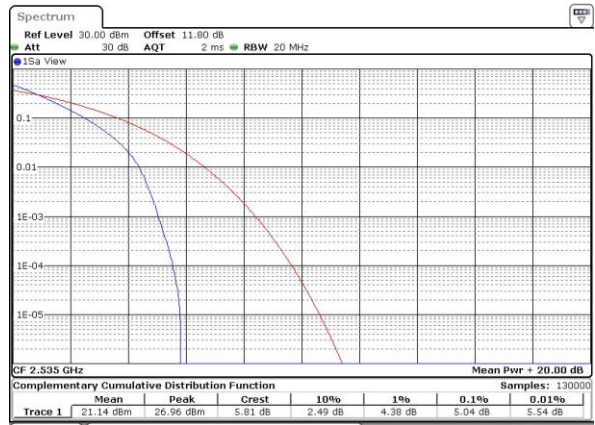
Date: 13 MAY 2017 18:50:55

Middle Channel / 1RB



Date: 13 MAY 2017 18:51:05

Middle Channel / Full RB



Date: 13 MAY 2017 18:51:43

Highest Channel / 1RB



Date: 13 MAY 2017 18:51:53

Highest Channel / Full RB

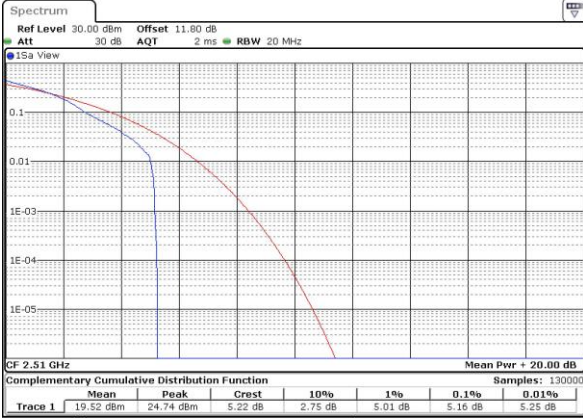


Date: 13 MAY 2017 18:52:03



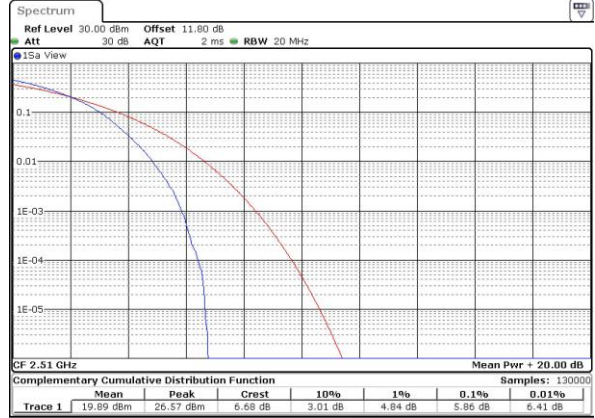
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 13 MAY 2017 18:49:27

Lowest Channel / Full RB



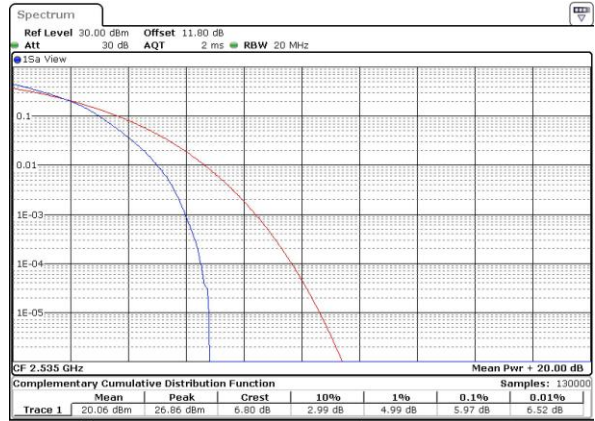
Date: 13 MAY 2017 18:49:39

Middle Channel / 1RB



Date: 13 MAY 2017 18:49:49

Middle Channel / Full RB



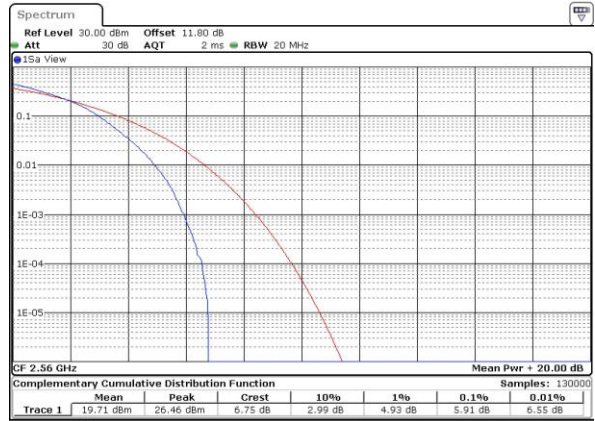
Date: 13 MAY 2017 18:49:59

Highest Channel / 1RB



Date: 13 MAY 2017 18:50:23

Highest Channel / Full RB



Date: 13 MAY 2017 18:50:35



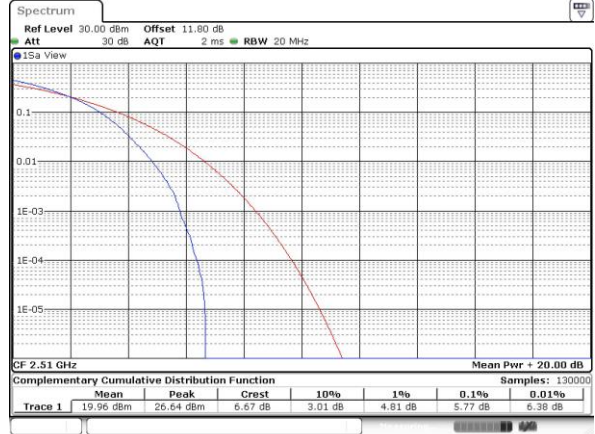
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 13 MAY 2017 19:27:43

Lowest Channel / Full RB



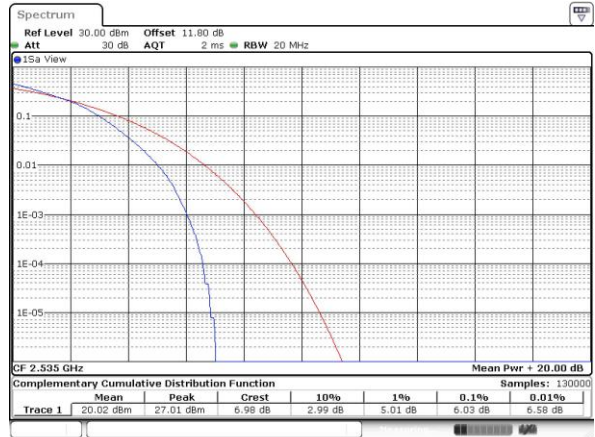
Date: 13 MAY 2017 19:27:52

Middle Channel / 1RB



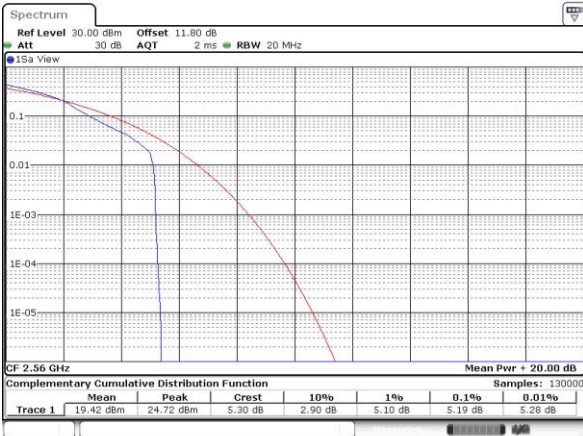
Date: 13 MAY 2017 19:28:08

Middle Channel / Full RB



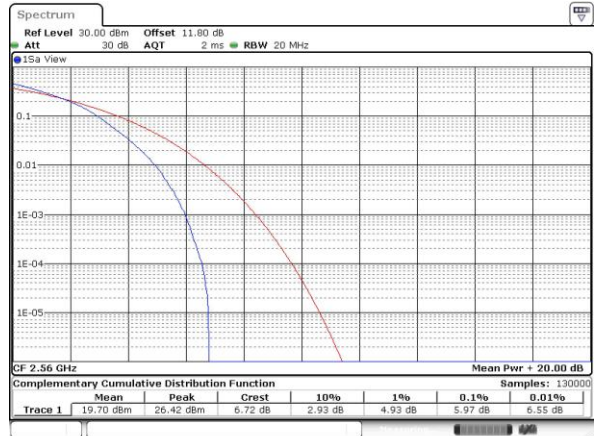
Date: 13 MAY 2017 19:28:17

Highest Channel / 1RB



Date: 13 MAY 2017 19:28:28

Highest Channel / Full RB



Date: 13 MAY 2017 19:28:40



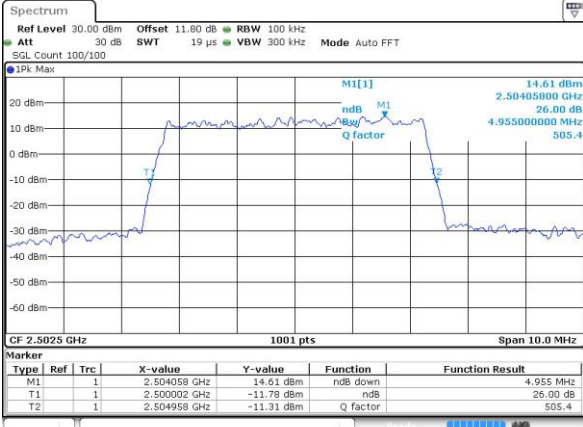
26dB Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.96	4.87	9.69	9.71	14.39	14.15	20.10	20.02
Middle CH	-	-	-	-	4.96	4.90	9.93	9.89	14.15	14.36	20.18	20.26
Highest CH	-	-	-	-	4.88	4.87	9.71	9.65	14.21	14.33	20.30	20.22
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	-	-	-	-	4.84	-	9.81	-	14.36	-	20.10
Middle CH	-	-	-	-	-	4.93	-	9.87	-	14.42	-	20.30
Highest CH	-	-	-	-	-	4.85	-	9.81	-	14.42	-	20.14



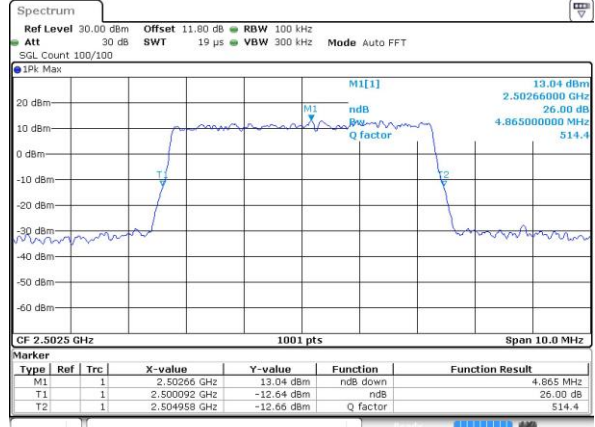
LTE Band 7

Lowest Channel / 5MHz / QPSK



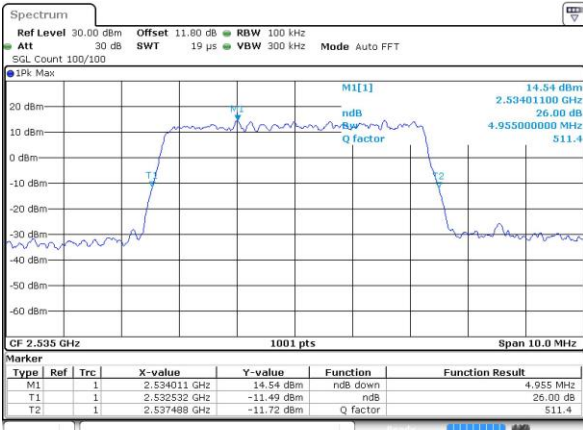
Date: 13 MAY 2017 17:42:26

Lowest Channel / 5MHz / 16QAM



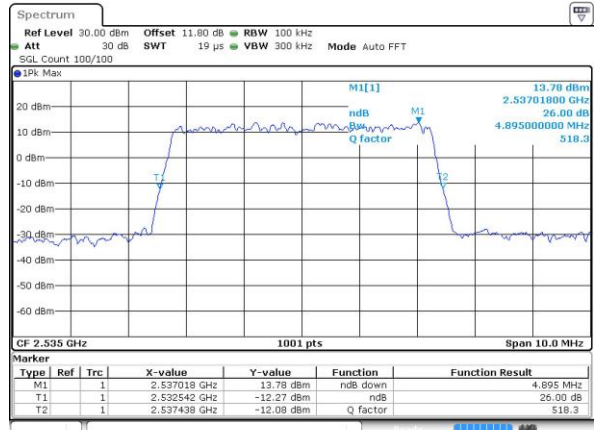
Date: 13 MAY 2017 17:42:37

Middle Channel / 5MHz / QPSK



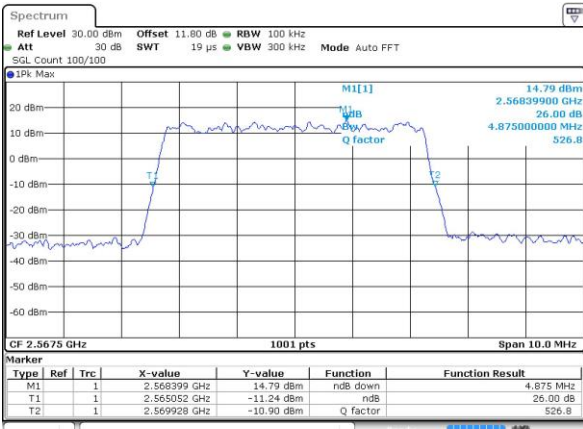
Date: 13 MAY 2017 17:49:34

Middle Channel / 5MHz / 16QAM



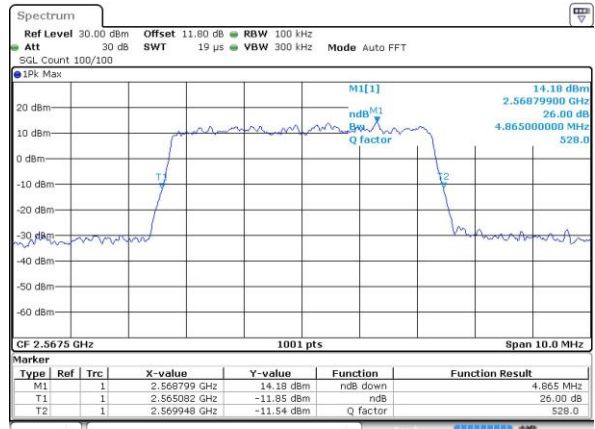
Date: 13 MAY 2017 17:49:45

Highest Channel / 5MHz / QPSK



Date: 13 MAY 2017 17:52:03

Highest Channel / 5MHz / 16QAM

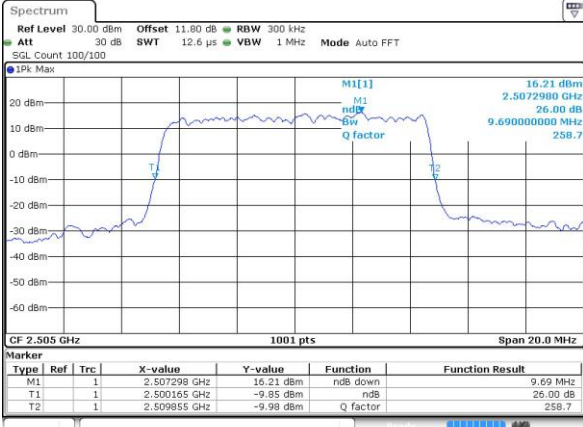


Date: 13 MAY 2017 17:52:14



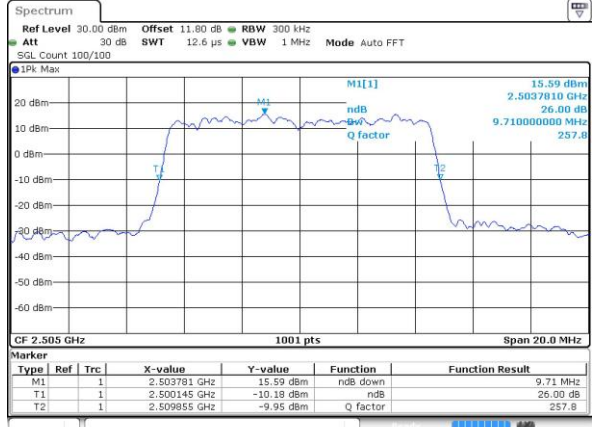
LTE Band 7

Lowest Channel / 10MHz / QPSK



Date: 13 MAY 2017 17:59:12

Lowest Channel / 10MHz / 16QAM



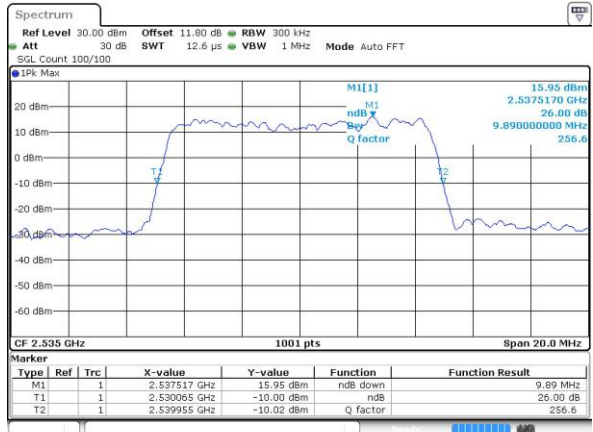
Date: 13 MAY 2017 17:59:22

Middle Channel / 10MHz / QPSK



Date: 13 MAY 2017 18:06:19

Middle Channel / 10MHz / 16QAM



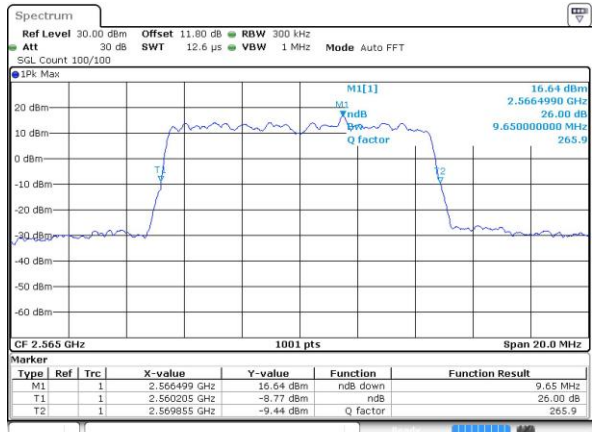
Date: 13 MAY 2017 18:06:30

Highest Channel / 10MHz / QPSK



Date: 13 MAY 2017 18:08:48

Highest Channel / 10MHz / 16QAM

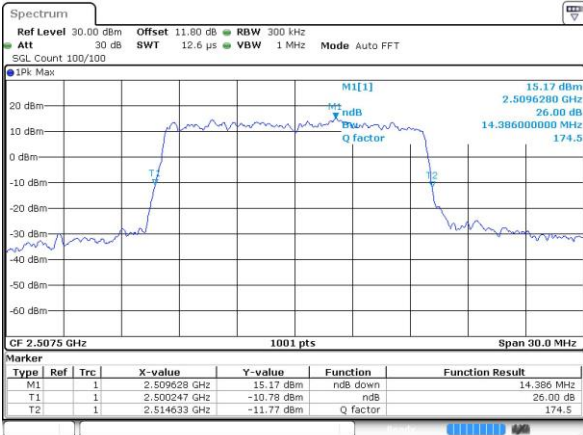


Date: 13 MAY 2017 18:08:59



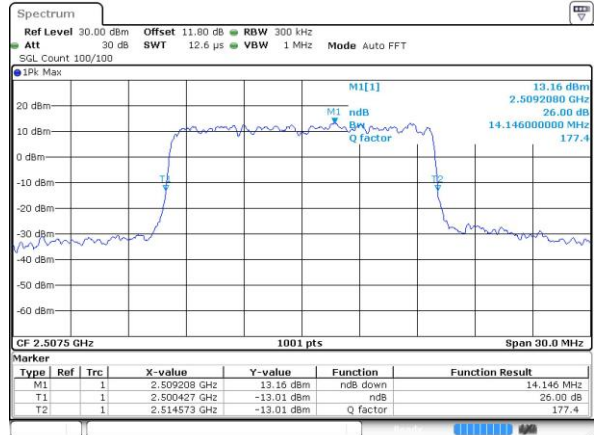
LTE Band 7

Lowest Channel / 15MHz / QPSK



Date: 13 MAY 2017 18:15:57

Lowest Channel / 15MHz / 16QAM



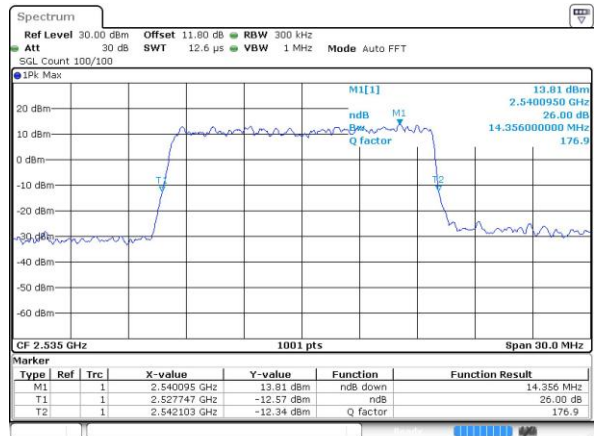
Date: 13 MAY 2017 18:16:07

Middle Channel / 15MHz / QPSK



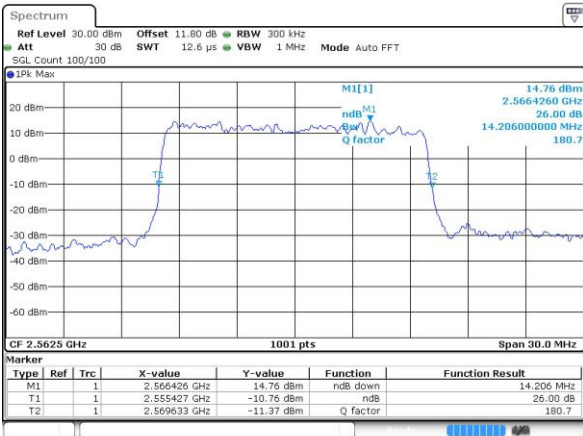
Date: 13 MAY 2017 18:23:04

Middle Channel / 15MHz / 16QAM



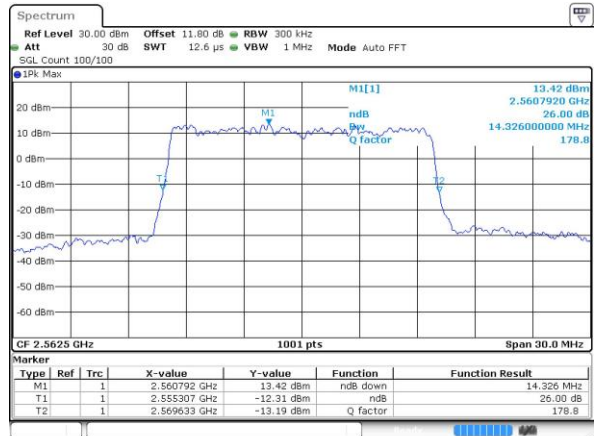
Date: 13 MAY 2017 18:23:15

Highest Channel / 15MHz / QPSK



Date: 13 MAY 2017 18:25:33

Highest Channel / 15MHz / 16QAM

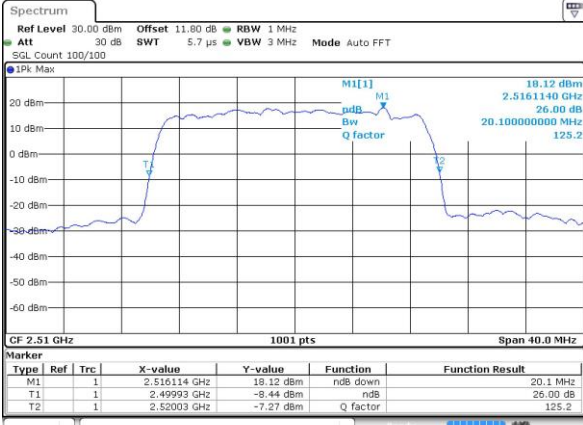


Date: 13 MAY 2017 18:25:44



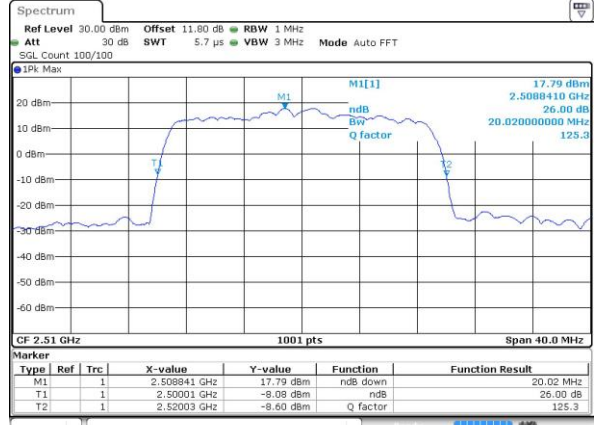
LTE Band 7

Lowest Channel / 20MHz / QPSK



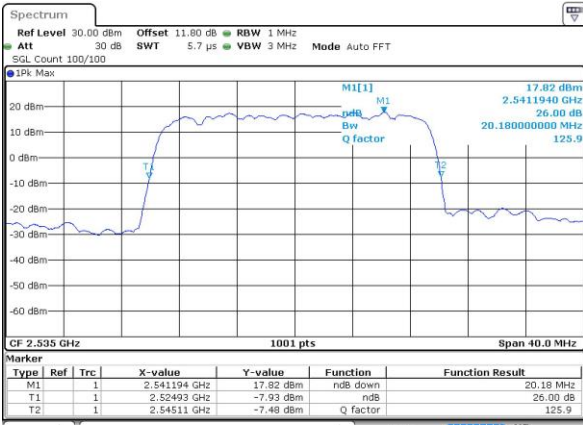
Date: 13 MAY 2017 18:32:41

Lowest Channel / 20MHz / 16QAM



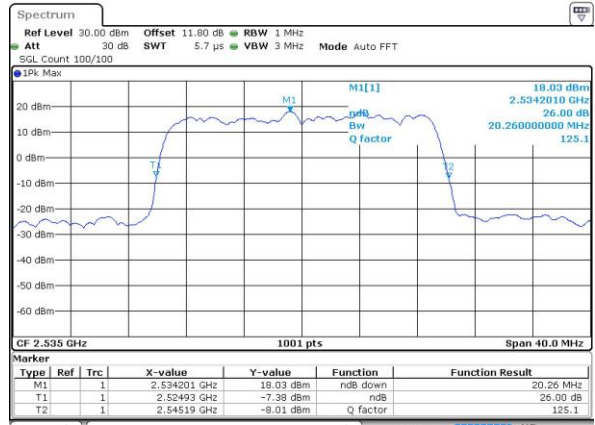
Date: 13 MAY 2017 18:32:52

Middle Channel / 20MHz / QPSK



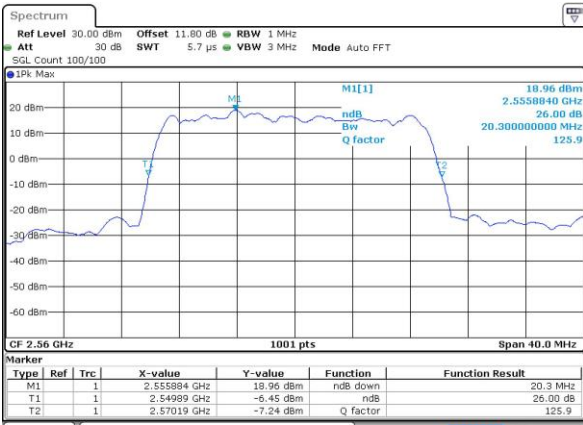
Date: 13 MAY 2017 18:39:49

Middle Channel / 20MHz / 16QAM



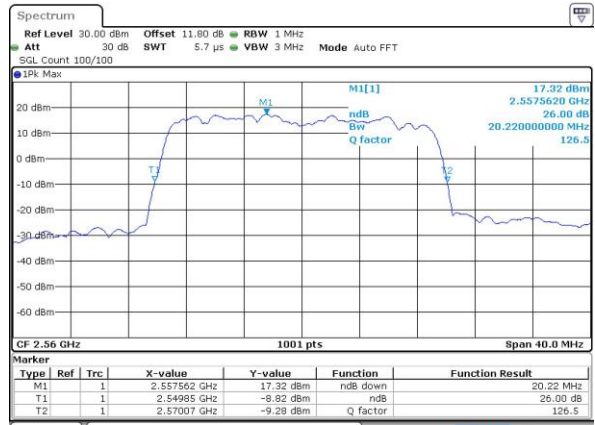
Date: 13 MAY 2017 18:39:59

Highest Channel / 20MHz / QPSK



Date: 13 MAY 2017 18:42:18

Highest Channel / 20MHz / 16QAM

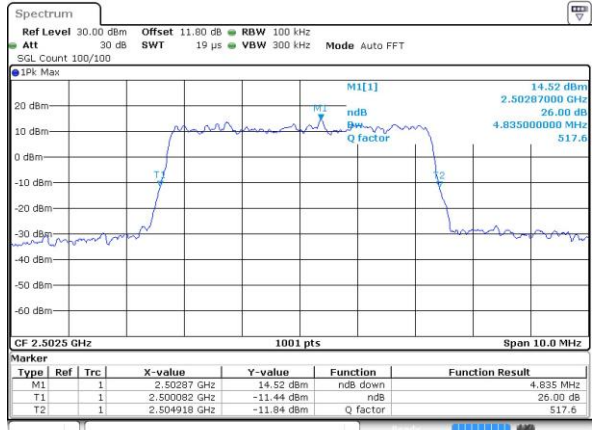


Date: 13 MAY 2017 18:42:28



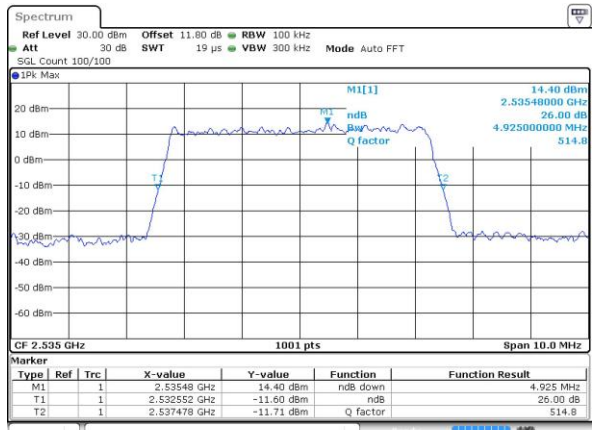
LTE Band 7

Lowest Channel / 5MHz / 64QAM



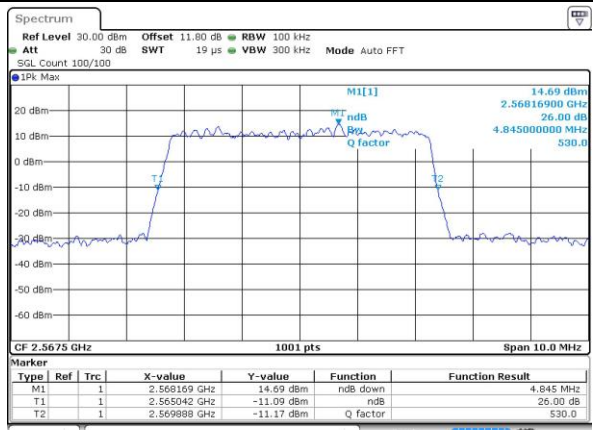
Date: 13 MAY 2017 18:54:21

Middle Channel / 5MHz / 64QAM



Date: 13 MAY 2017 18:57:54

Highest Channel / 5MHz / 64QAM

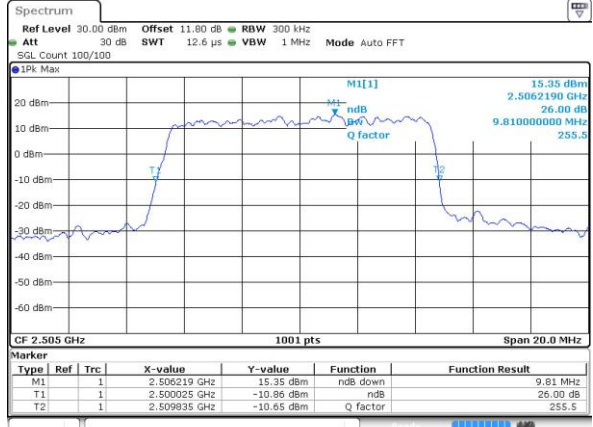


Date: 13 MAY 2017 18:59:09



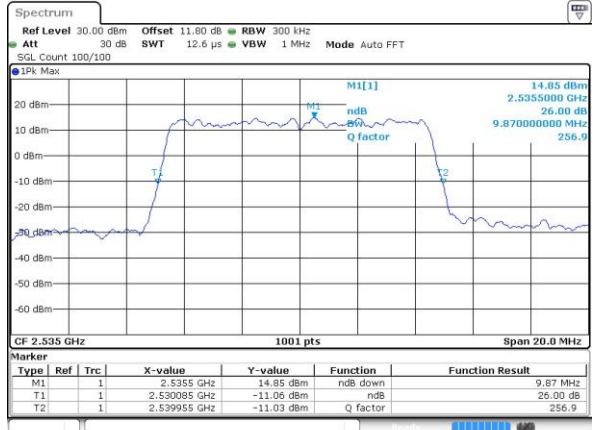
LTE Band 7

Lowest Channel / 10MHz / 64QAM



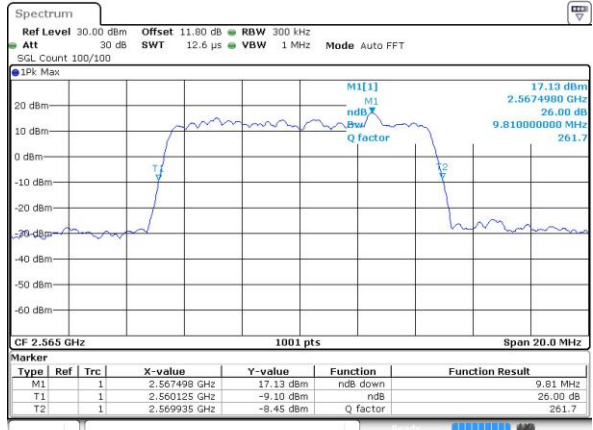
Date: 13 MAY 2017 19:02:43

Middle Channel / 10MHz / 64QAM



Date: 13 MAY 2017 19:06:16

Highest Channel / 10MHz / 64QAM

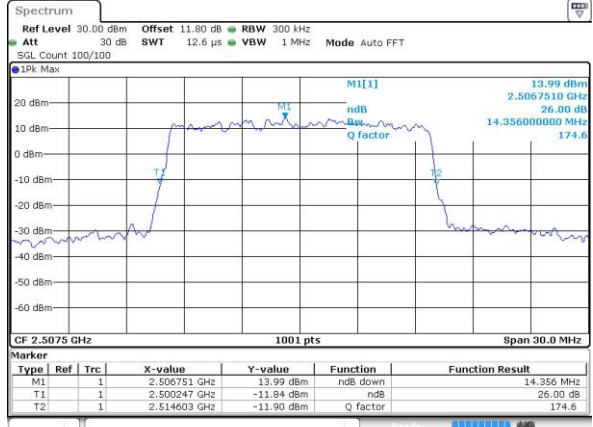


Date: 13 MAY 2017 19:07:31



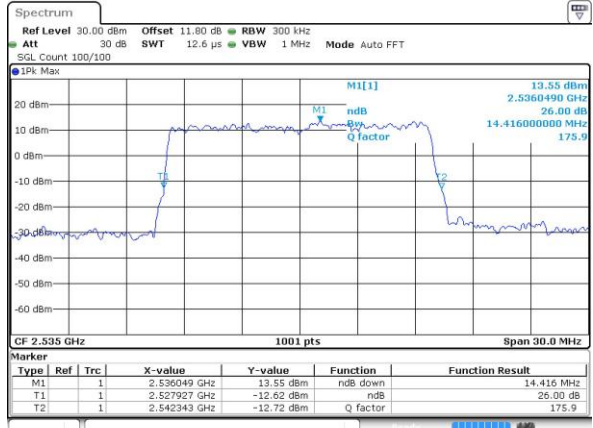
LTE Band 7

Lowest Channel / 15MHz / 64QAM



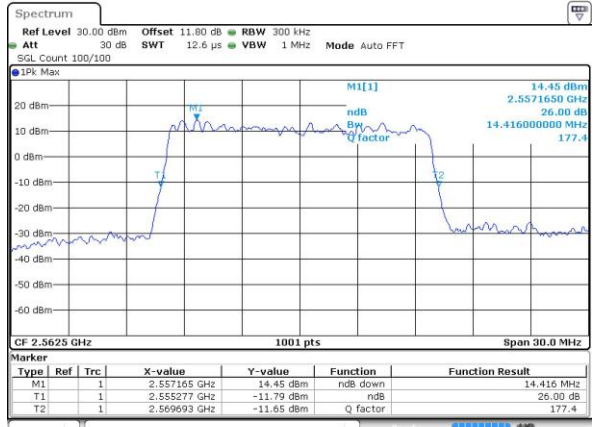
Date: 13 MAY 2017 19:11:05

Middle Channel / 15MHz / 64QAM



Date: 13 MAY 2017 19:14:39

Highest Channel / 15MHz / 64QAM

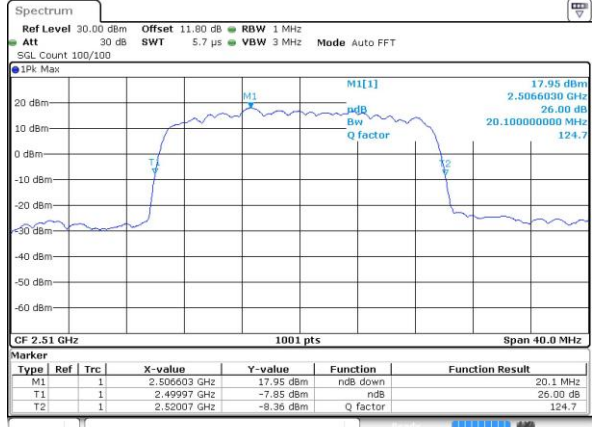


Date: 13 MAY 2017 19:15:53



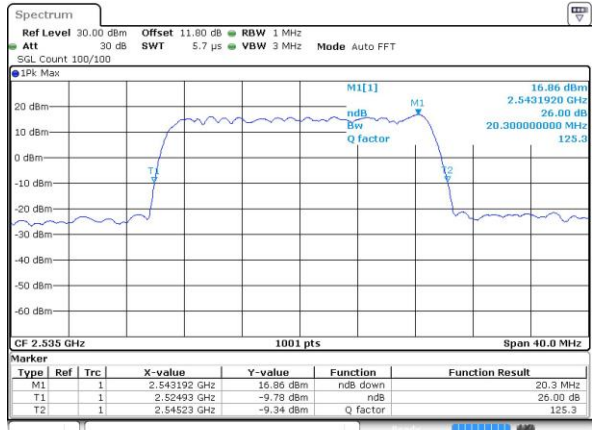
LTE Band 7

Lowest Channel / 20MHz / 64QAM



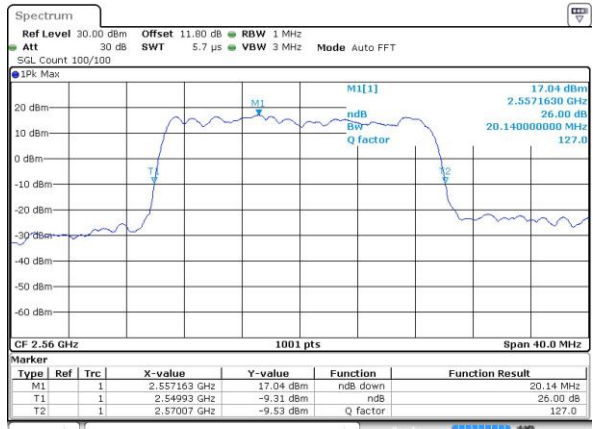
Date: 13 MAY 2017 19:19:27

Middle Channel / 20MHz / 64QAM



Date: 13 MAY 2017 19:23:01

Highest Channel / 20MHz / 64QAM



Date: 13 MAY 2017 19:24:15



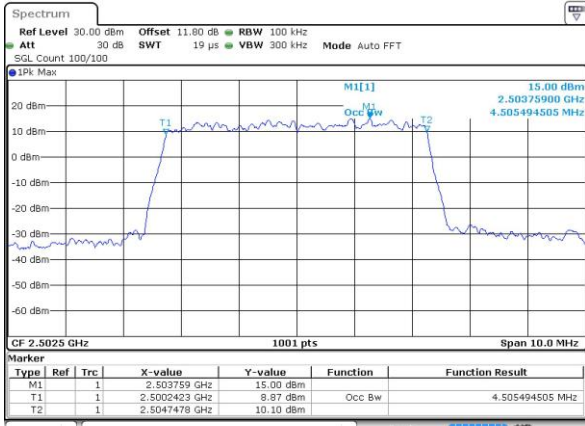
Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.51	4.5	8.97	9.05	13.4	13.37	18.1	18.3
Middle CH	-	-	-	-	4.5	4.49	9.01	8.99	13.46	13.43	18.42	18.38
Highest CH	-	-	-	-	4.5	4.5	8.97	9.03	13.49	13.4	18.34	18.34
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	-	-	-	-	4.46	-	8.99	-	13.43	-	18.26
Middle CH	-	-	-	-	-	4.49	-	9.05	-	13.43	-	18.22
Highest CH	-	-	-	-	-	4.46	-	8.97	-	13.46	-	18.34



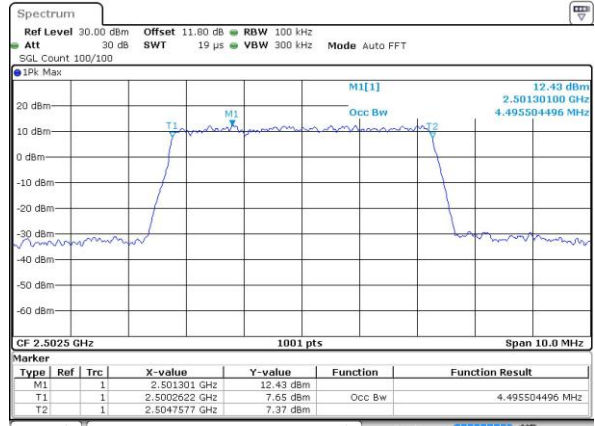
LTE Band 7

Lowest Channel / 5MHz / QPSK



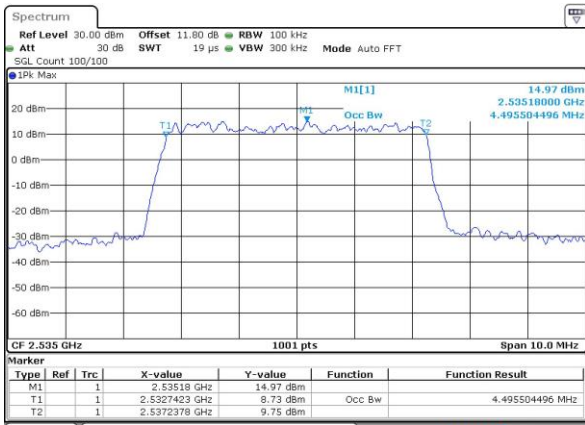
Date: 13 MAY 2017 17:42:06

Lowest Channel / 5MHz / 16QAM



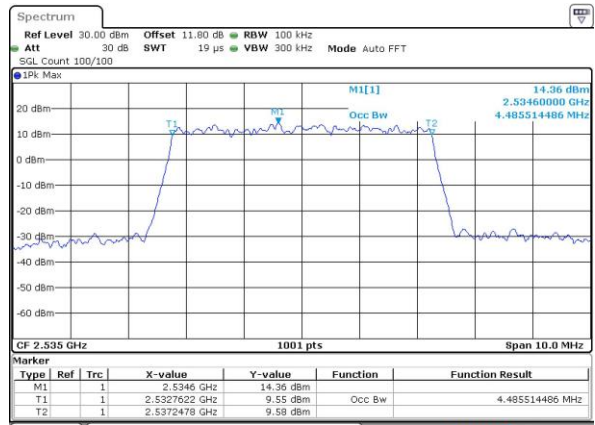
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Middle Channel / 5MHz / QPSK



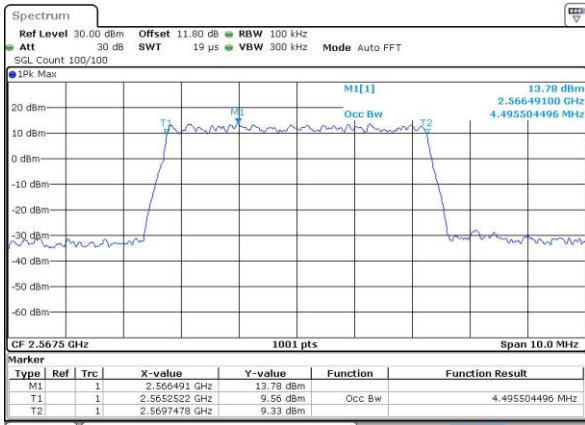
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Middle Channel / 5MHz / 16QAM



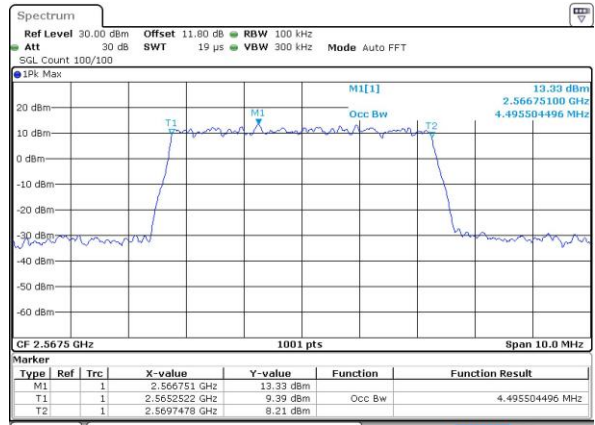
Date: 13 MAY 2017 17:49:24

Highest Channel / 5MHz / QPSK



Date: 13 MAY 2017 17:51:43

Highest Channel / 5MHz / 16QAM

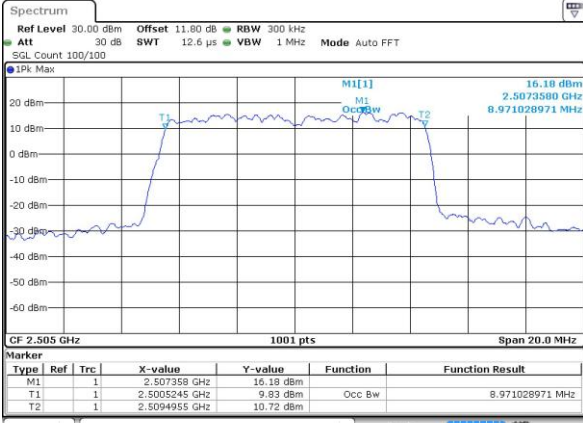


Date: 13 MAY 2017 17:51:53



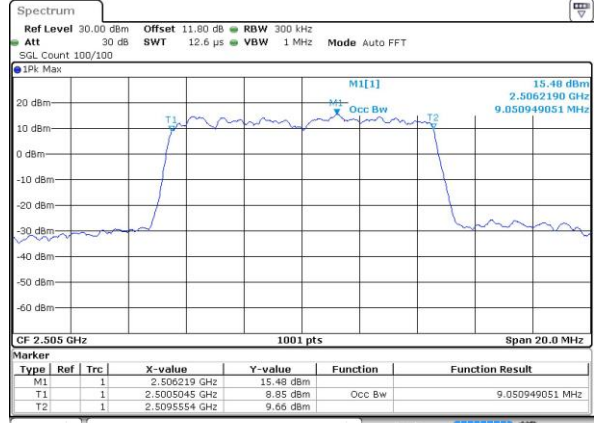
LTE Band 7

Lowest Channel / 10MHz / QPSK



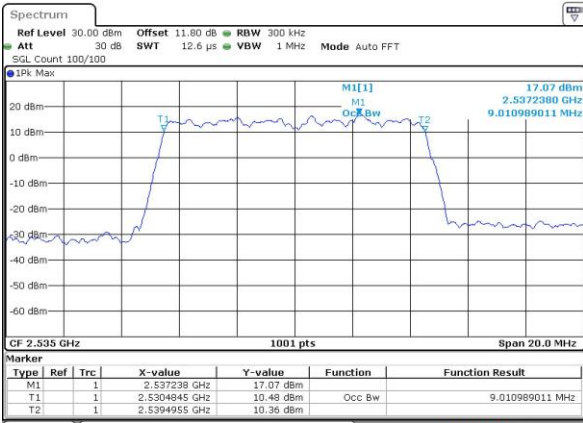
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Lowest Channel / 10MHz / 16QAM



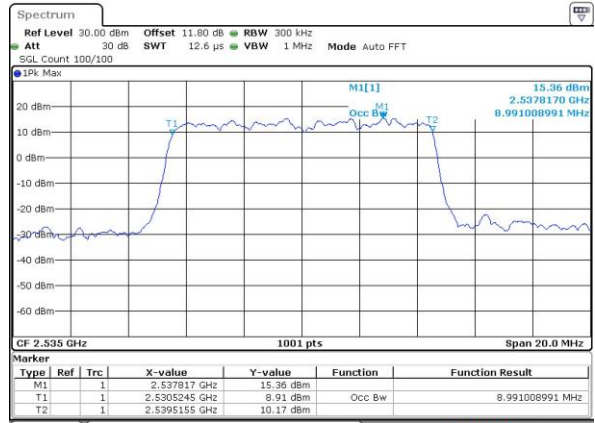
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Middle Channel / 10MHz / QPSK



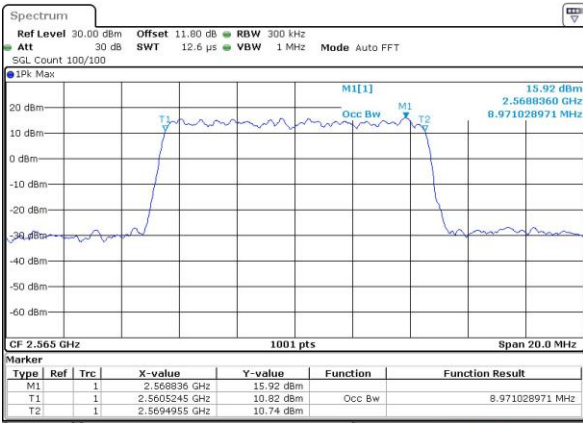
Date: 13 MAY 2017 18:05:59

Middle Channel / 10MHz / 16QAM



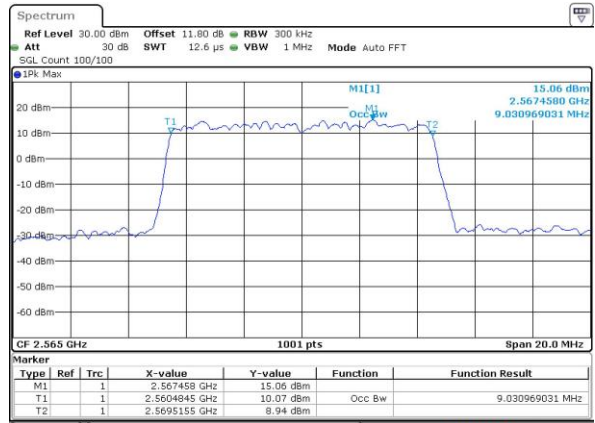
Date: 13 MAY 2017 18:06:09

Highest Channel / 10MHz / QPSK



Date: 13 MAY 2017 18:08:28

Highest Channel / 10MHz / 16QAM

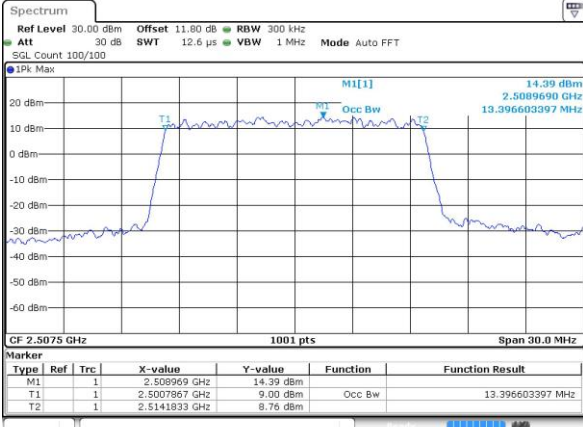


Date: 13 MAY 2017 18:08:38



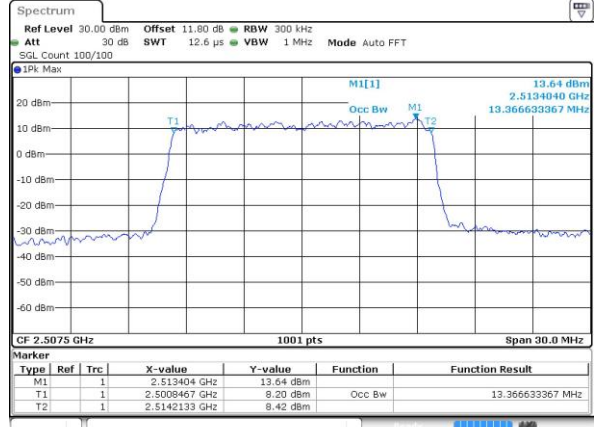
LTE Band 7

Lowest Channel / 15MHz / QPSK



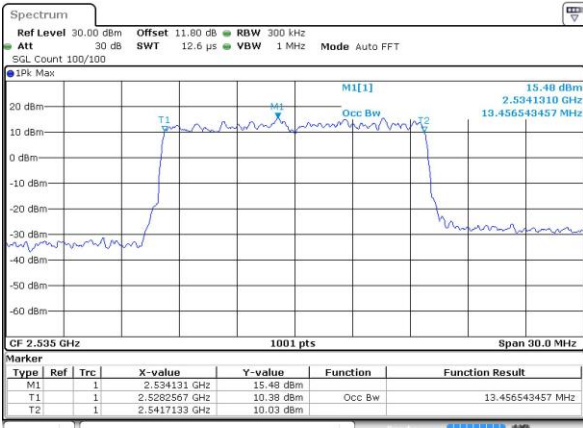
Date: 13 MAY 2017 18:15:36

Lowest Channel / 15MHz / 16QAM



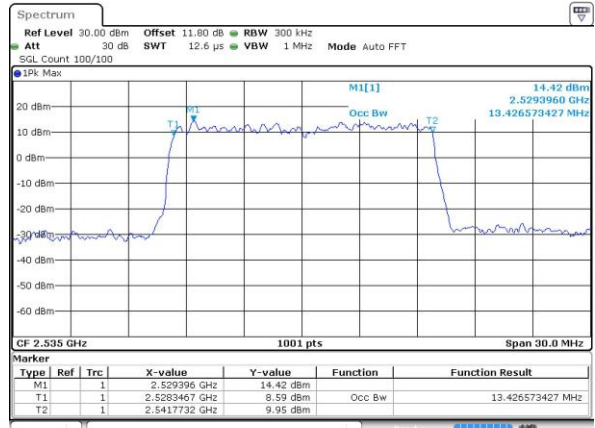
Date: 13 MAY 2017 18:15:46

Middle Channel / 15MHz / QPSK



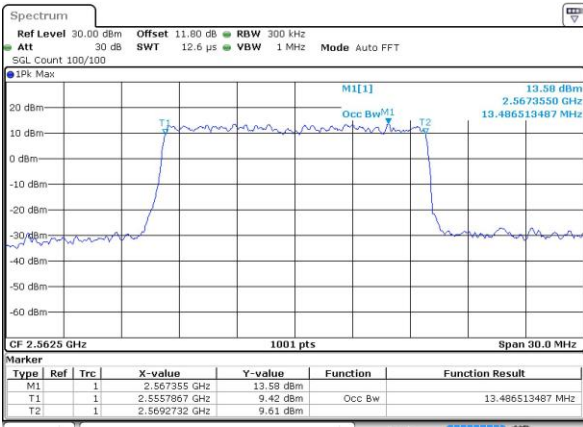
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Middle Channel / 15MHz / 16QAM



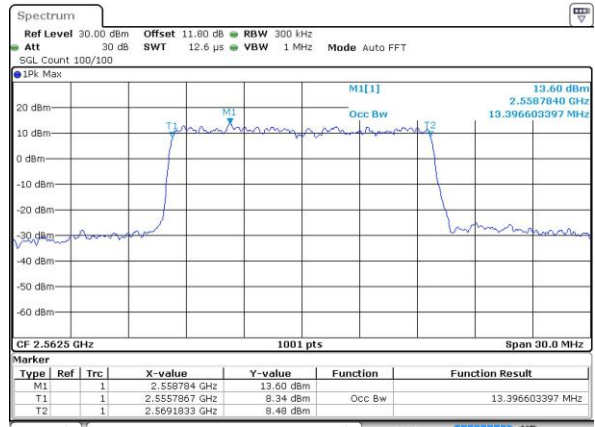
Date: 13 MAY 2017 18:22:54

Highest Channel / 15MHz / QPSK



Date: 13 MAY 2017 18:25:12

Highest Channel / 15MHz / 16QAM

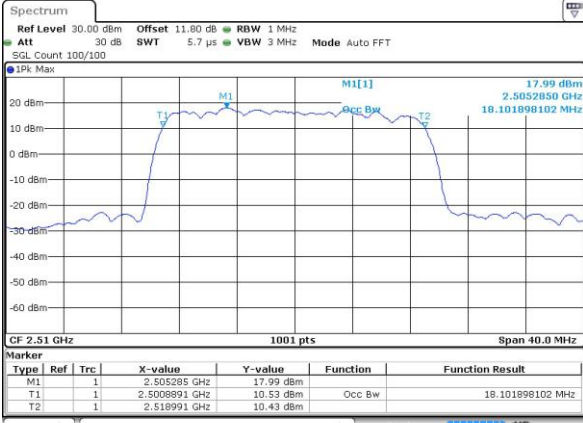


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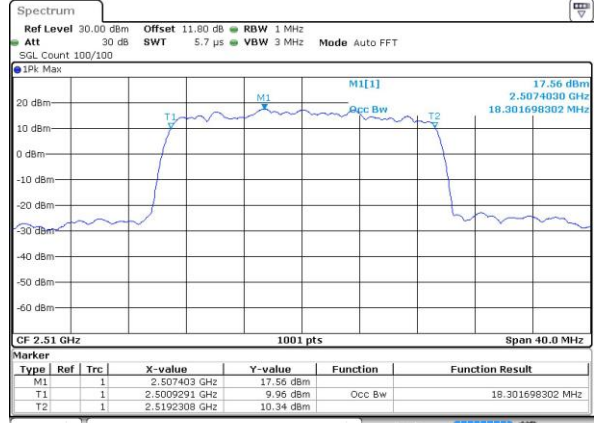
LTE Band 7

Lowest Channel / 20MHz / QPSK



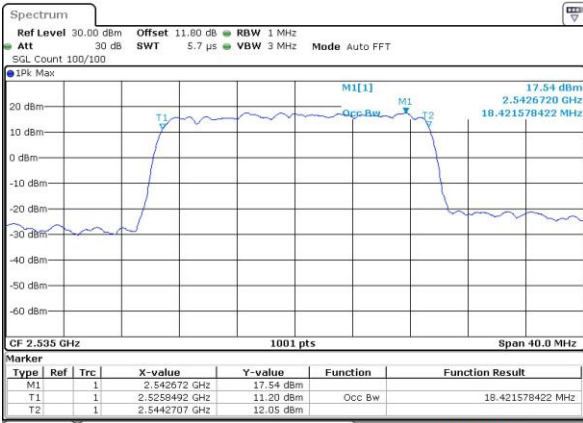
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Lowest Channel / 20MHz / 16QAM



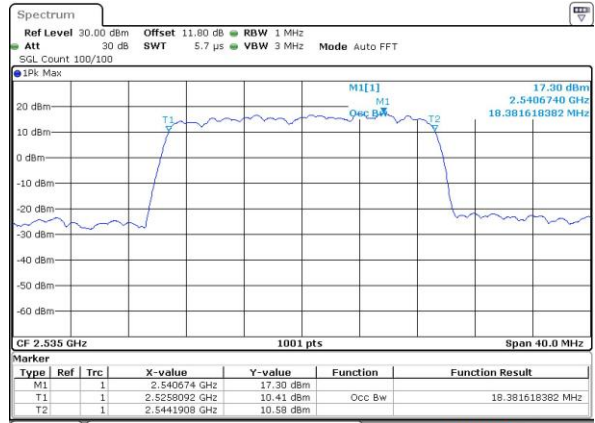
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Middle Channel / 20MHz / QPSK



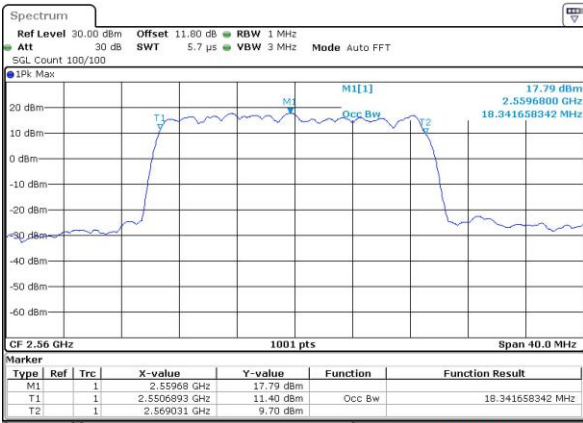
Date: 13 MAY 2017 18:39:28

Middle Channel / 20MHz / 16QAM



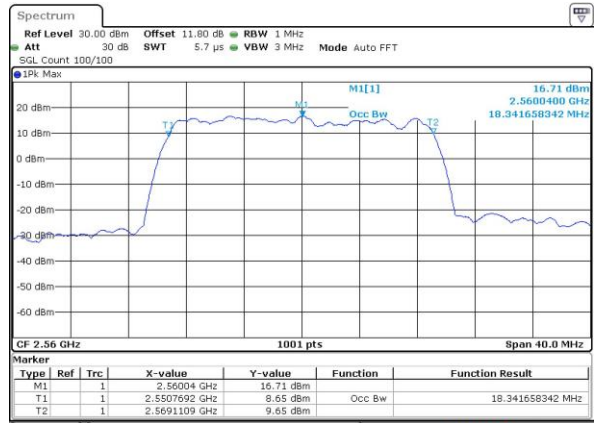
Date: 13 MAY 2017 18:39:39

Highest Channel / 20MHz / QPSK



Date: 13 MAY 2017 18:41:57

Highest Channel / 20MHz / 16QAM



Date: 13 MAY 2017 18:42:08