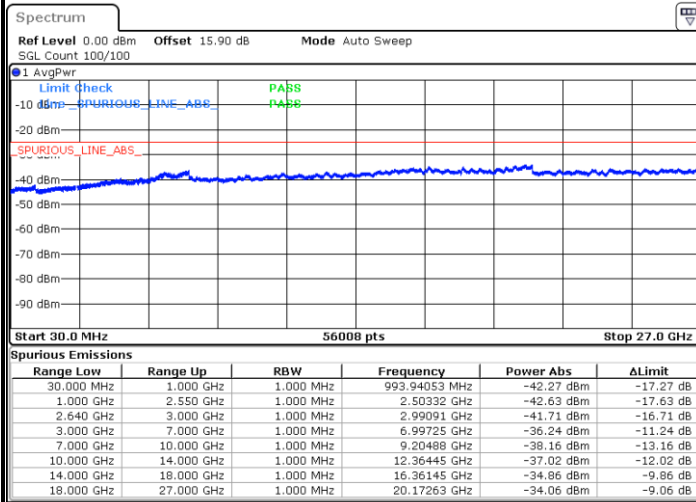




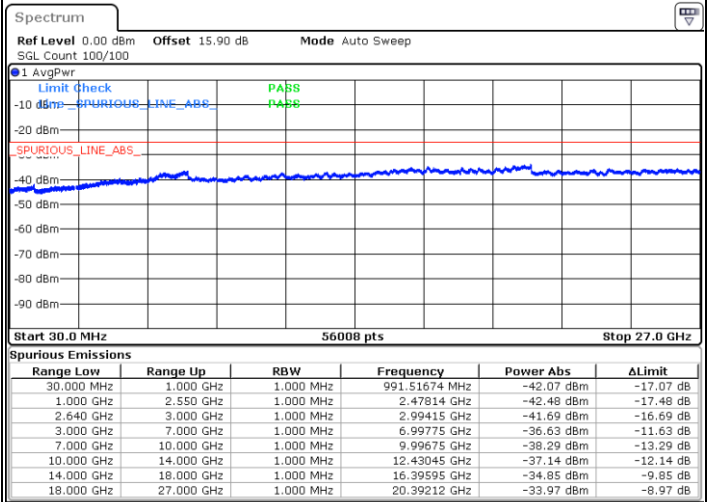
LTE Band 38 / 20MHz

Lowest Channel / 64QAM



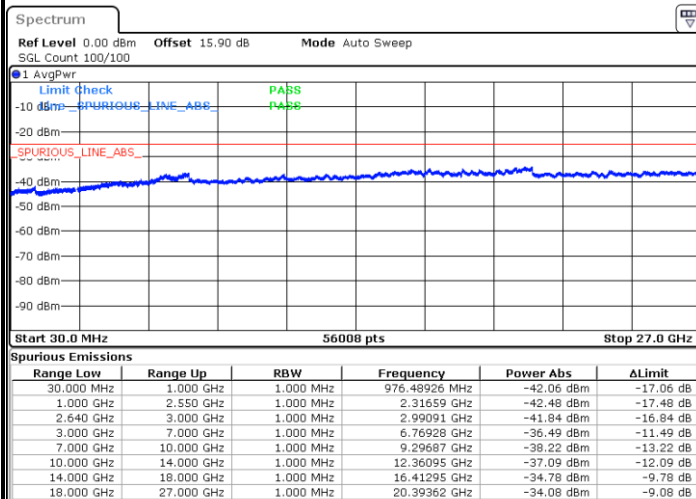
Date: 29.SEP.2017 12:18:14

Middle Channel / 64QAM



Date: 29.SEP.2017 12:19:07

Highest Channel / 64QAM



Date: 29.SEP.2017 12:20:01

Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0090	PASS
40	Normal Voltage	0.0086	
30	Normal Voltage	0.0087	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0089	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0013	

Note:

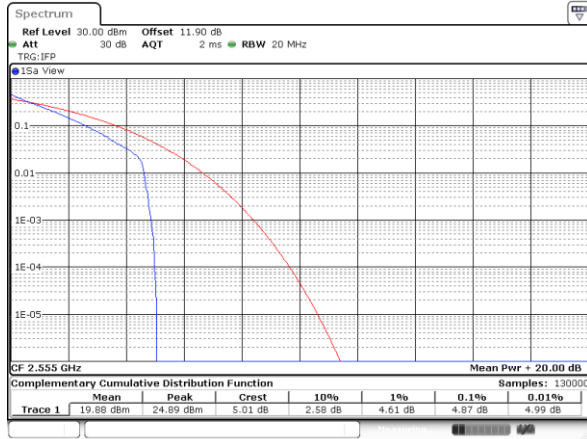
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



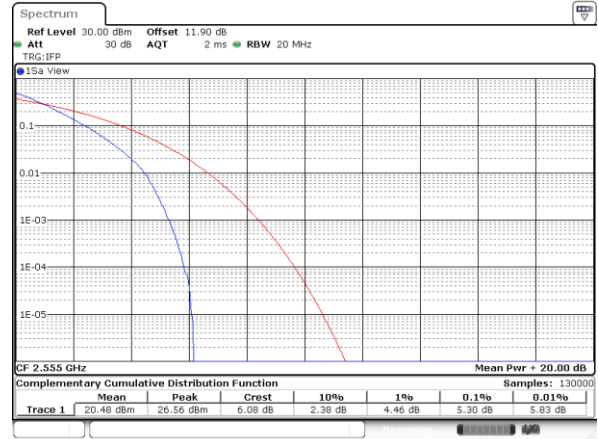
LTE Band 41

Peak-to-Average Ratio

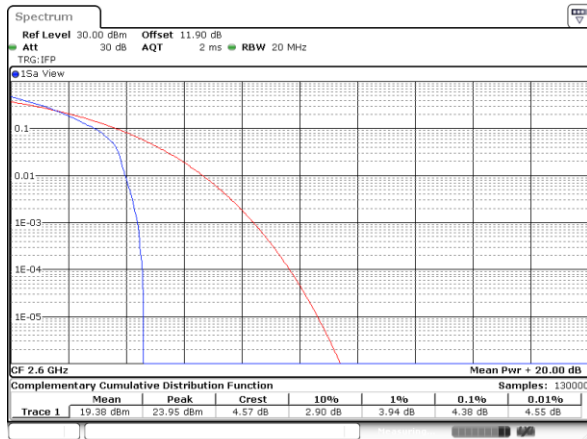
Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.87	5.3	5.65	6.23	PASS
Middle CH	4.38	5.3	5.28	6.29	
Highest CH	4.2	5.3	5.19	6.26	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.26	6.61	-	-	PASS
Middle CH	6.17	6.93	-	-	
Highest CH	6.29	6.61	-	-	

LTE Band 41 / 20MHz / QPSK
Lowest Channel / 1RB


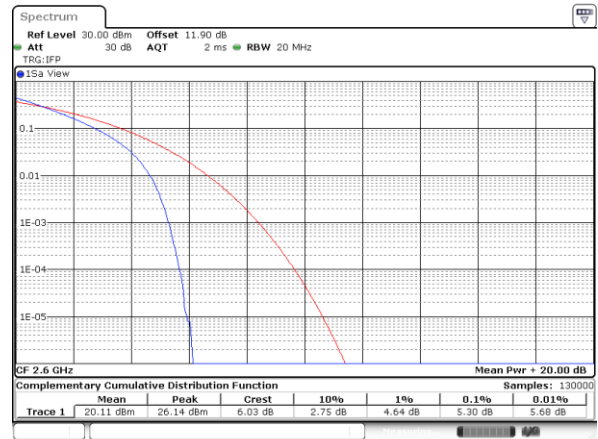
Date: 15 SEP 2017 21:00:19

Lowest Channel / Full RB


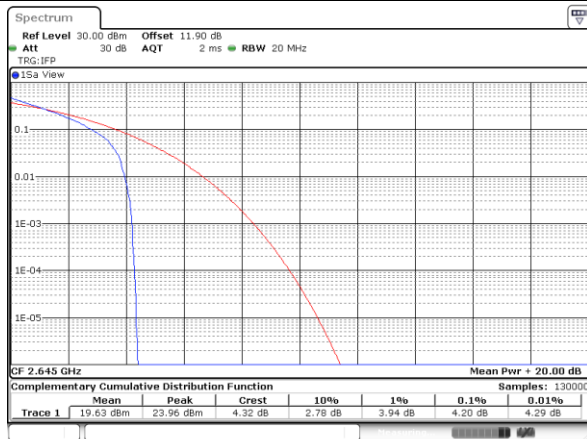
Date: 15 SEP 2017 21:00:36

Middle Channel / 1RB


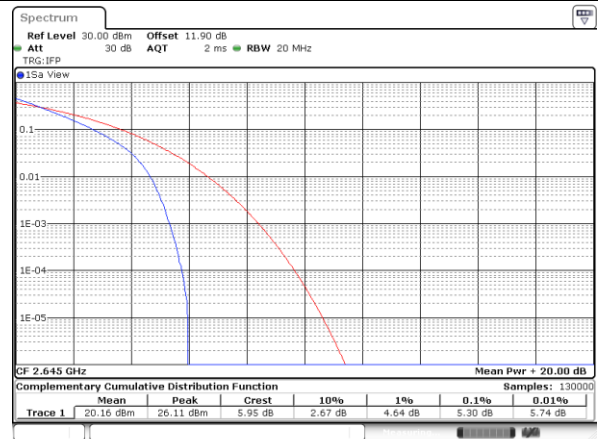
Date: 15 SEP 2017 21:00:54

Middle Channel / Full RB


Date: 15 SEP 2017 21:01:13

Highest Channel / 1RB


Date: 15 SEP 2017 21:02:12

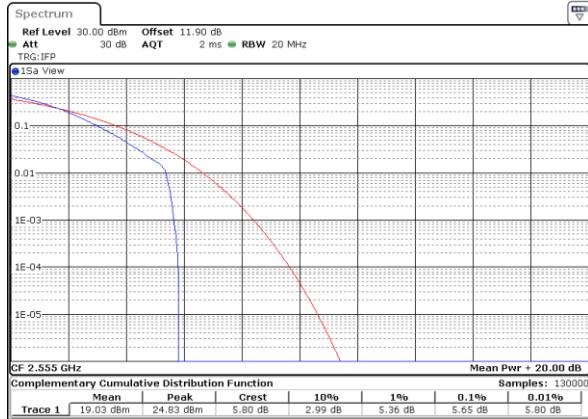
Highest Channel / Full RB


Date: 15 SEP 2017 21:02:28

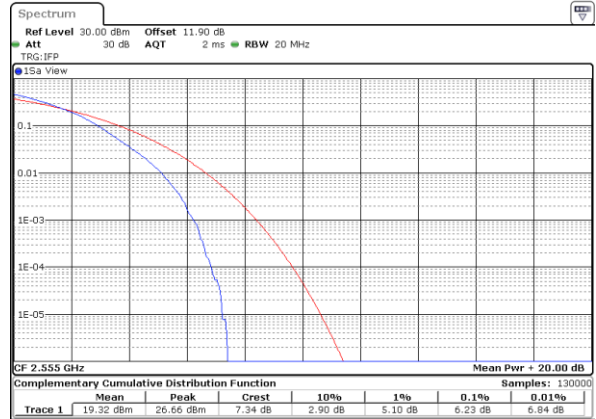


LTE Band 41 / 20MHz / 16QAM

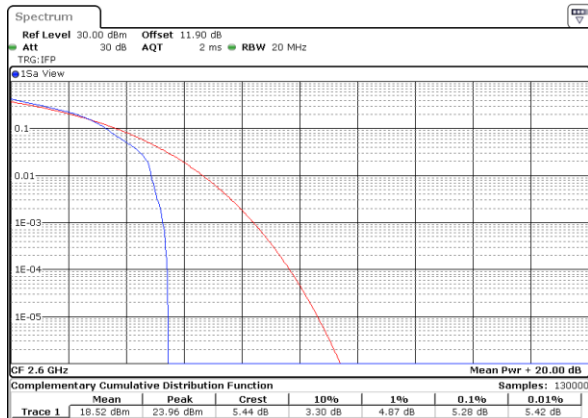
Lowest Channel / 1RB



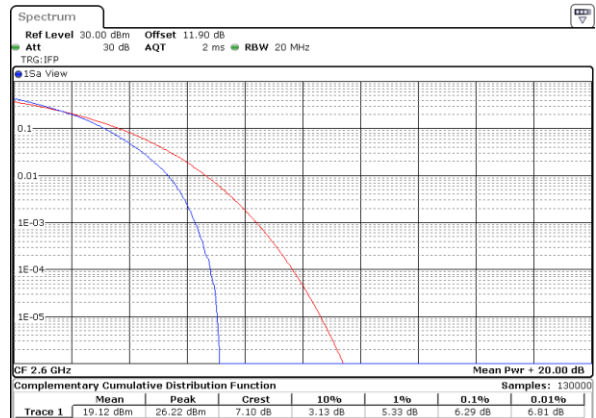
Lowest Channel / Full RB



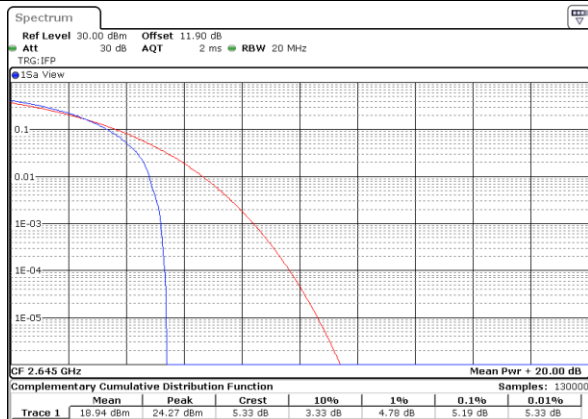
Middle Channel / 1RB



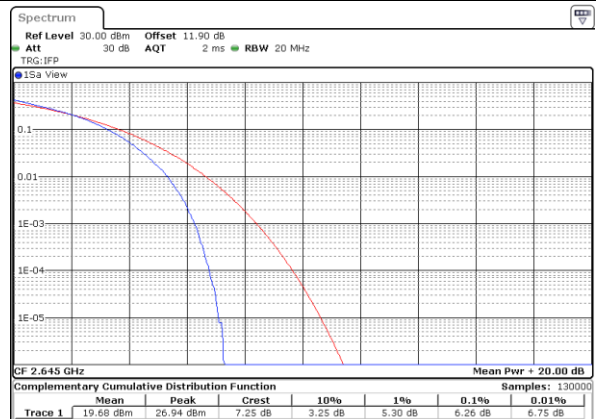
Middle Channel / Full RB



Highest Channel / 1RB



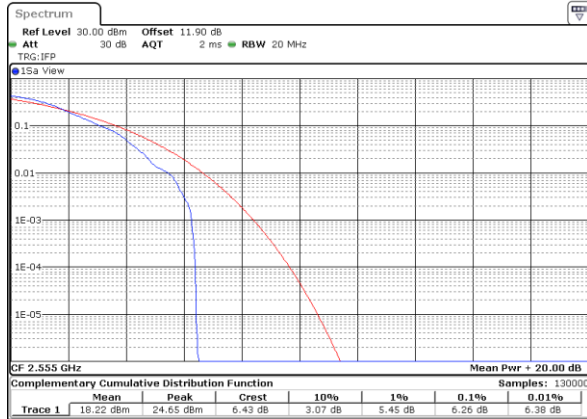
Highest Channel / Full RB



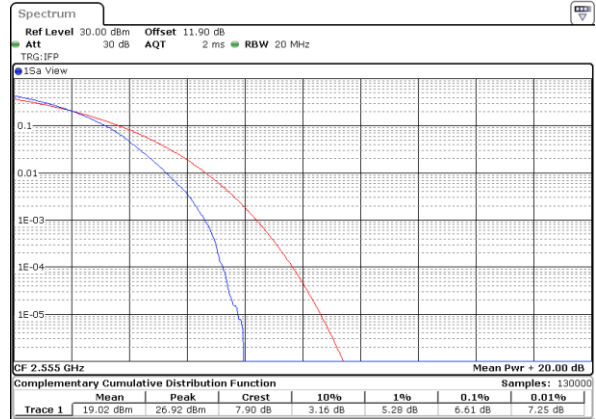


LTE Band 41 / 20MHz / 64QAM

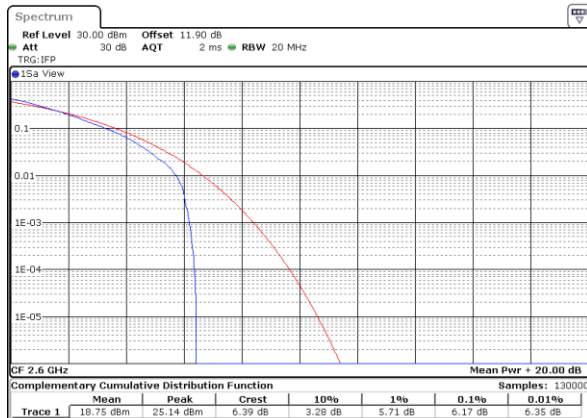
Lowest Channel / 1RB



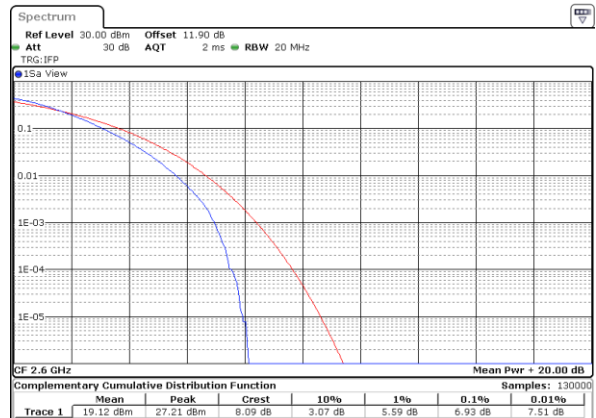
Lowest Channel / Full RB



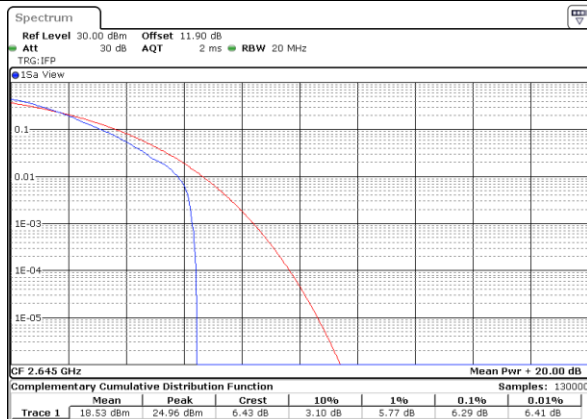
Middle Channel / 1RB



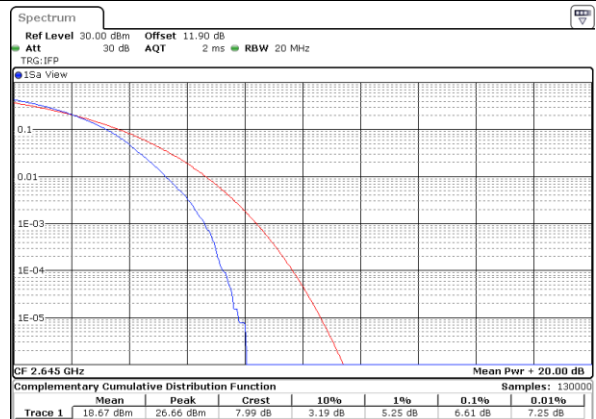
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



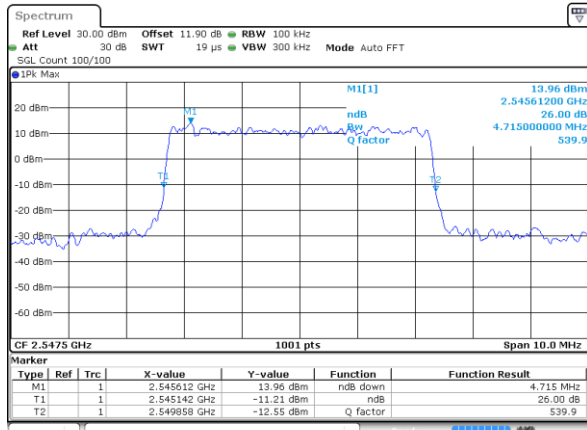
**26dB Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.72	4.81	9.73	9.77	14.18	14.27	20.30	20.10
Middle CH	-	-	-	-	4.92	4.82	9.65	9.73	14.27	14.30	20.18	20.34
Highest CH	-	-	-	-	4.76	4.81	9.75	9.65	14.30	14.45	20.10	20.10
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.85	-	9.63	-	14.36	-	20.06	-
Middle CH	-	-	-	-	4.87	-	9.65	-	14.33	-	20.06	-
Highest CH	-	-	-	-	4.8	-	9.83	-	14.3	-	20.1	-



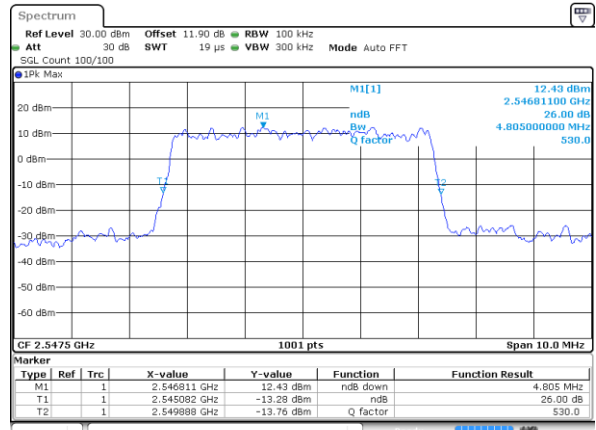
LTE Band 41

Lowest Channel / 5MHz / QPSK



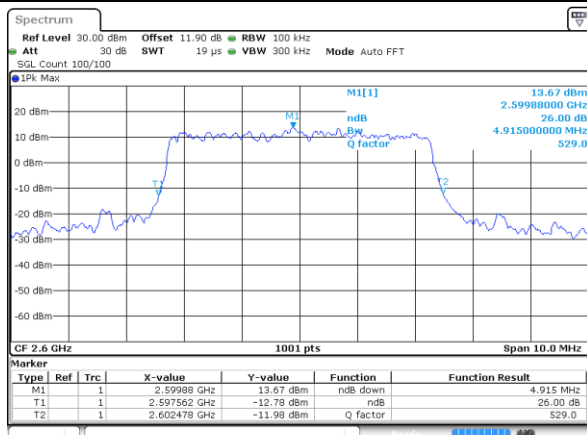
Date: 15 SEP 2017 20:50:01

Lowest Channel / 5MHz / 16QAM



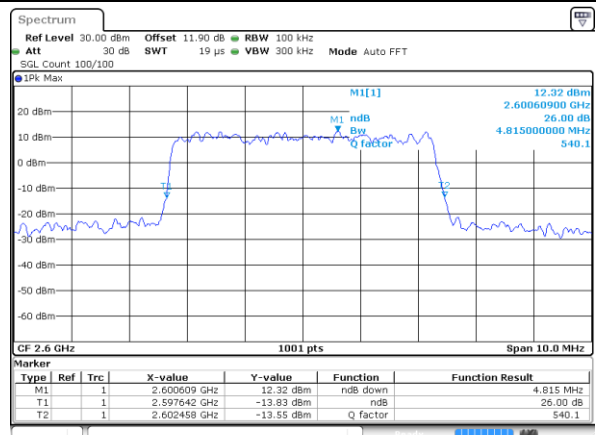
Date: 15 SEP 2017 20:50:11

Middle Channel / 5MHz / QPSK



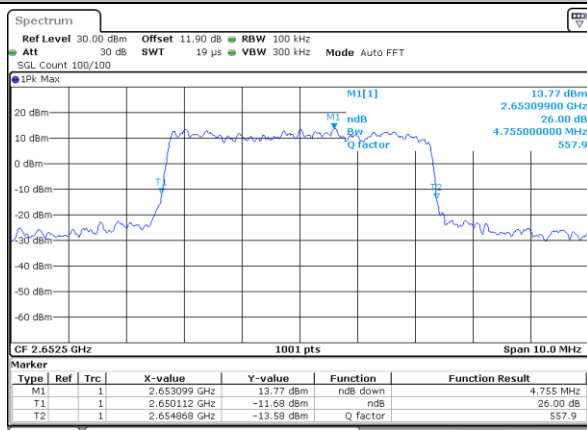
Date: 15 SEP 2017 20:50:41

Middle Channel / 5MHz / 16QAM



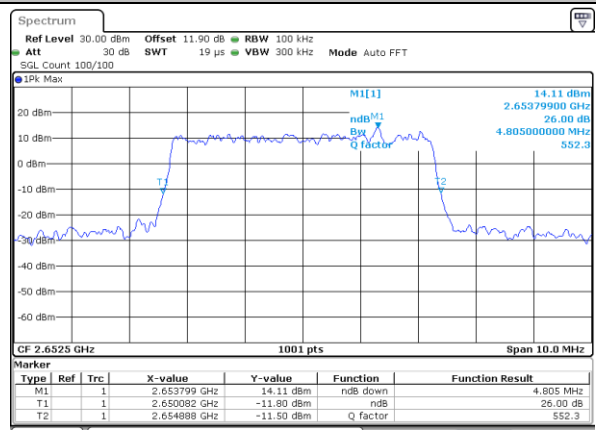
Date: 15 SEP 2017 20:50:51

Highest Channel / 5MHz / QPSK



Date: 15 SEP 2017 20:51:21

Highest Channel / 5MHz / 16QAM

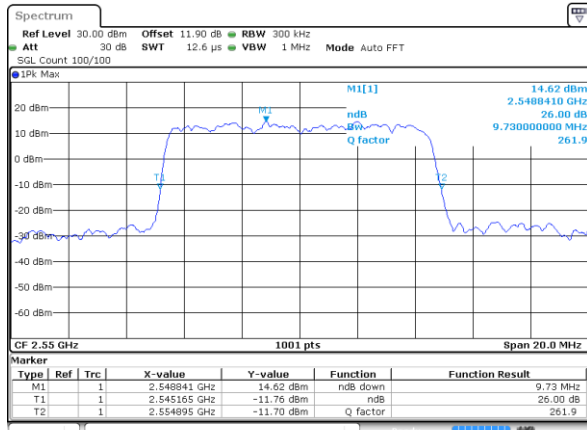


Date: 15 SEP 2017 20:51:31



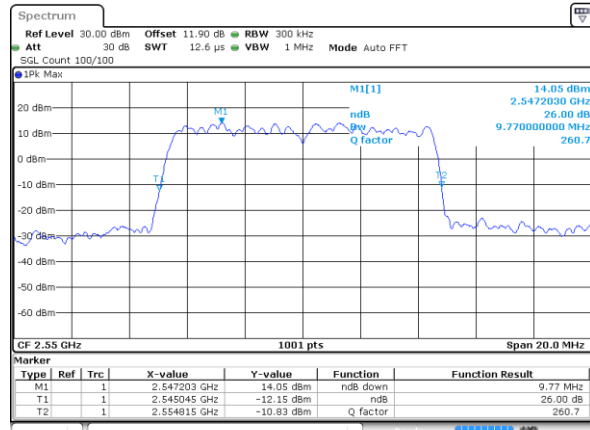
LTE Band 41

Lowest Channel / 10MHz / QPSK



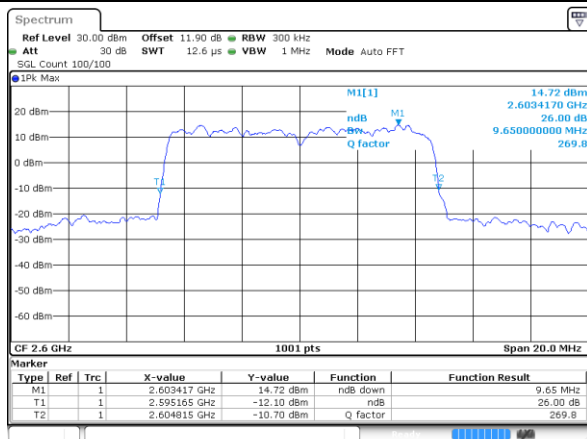
Date: 15 SEP 2017 20:52:01

Lowest Channel / 10MHz / 16QAM



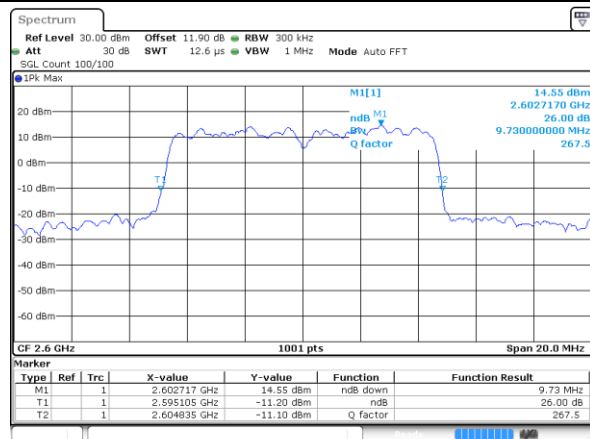
Date: 15 SEP 2017 20:52:11

Middle Channel / 10MHz / QPSK



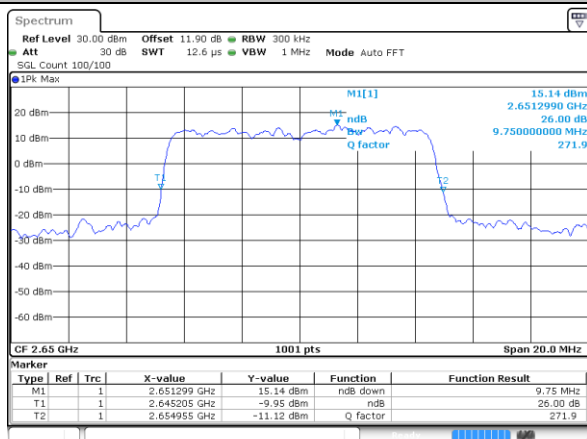
Date: 15 SEP 2017 20:52:41

Middle Channel / 10MHz / 16QAM



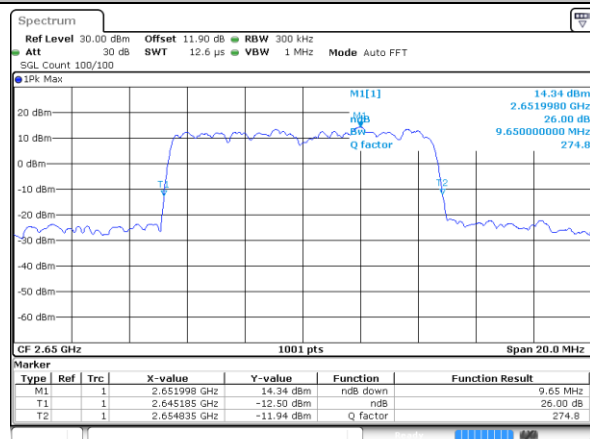
Date: 15 SEP 2017 20:52:51

Highest Channel / 10MHz / QPSK



Date: 15 SEP 2017 20:53:21

Highest Channel / 10MHz / 16QAM

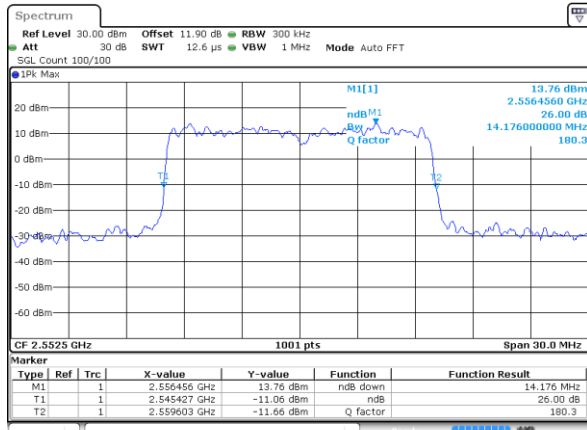


Date: 15 SEP 2017 20:53:31



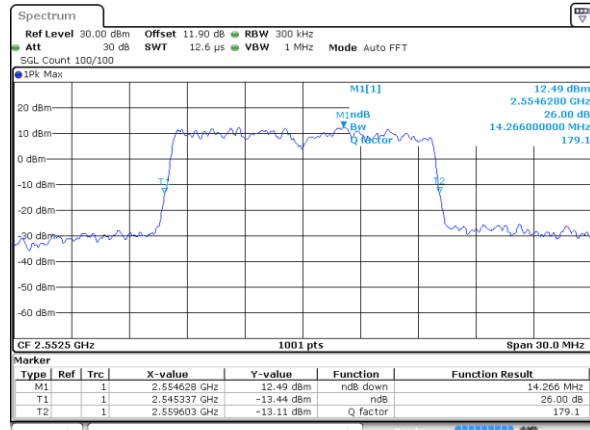
LTE Band 41

Lowest Channel / 15MHz / QPSK



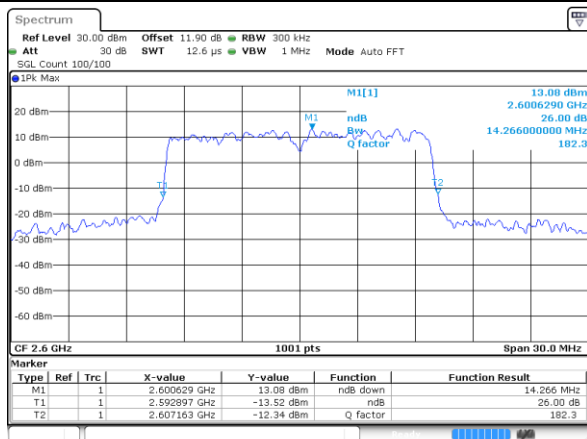
Date: 15 SEP 2017 20:54:01

Lowest Channel / 15MHz / 16QAM



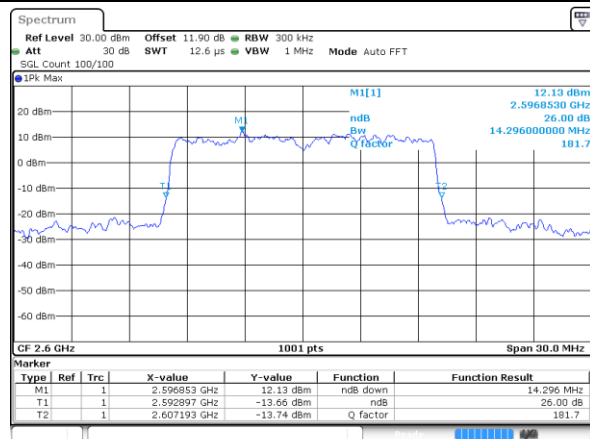
Date: 15 SEP 2017 20:54:12

Middle Channel / 15MHz / QPSK



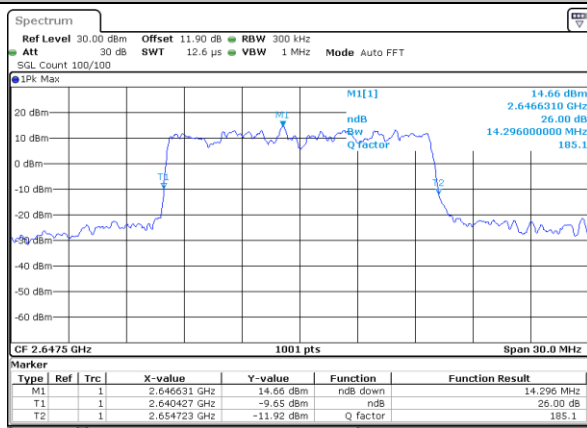
Date: 15 SEP 2017 20:54:42

Middle Channel / 15MHz / 16QAM



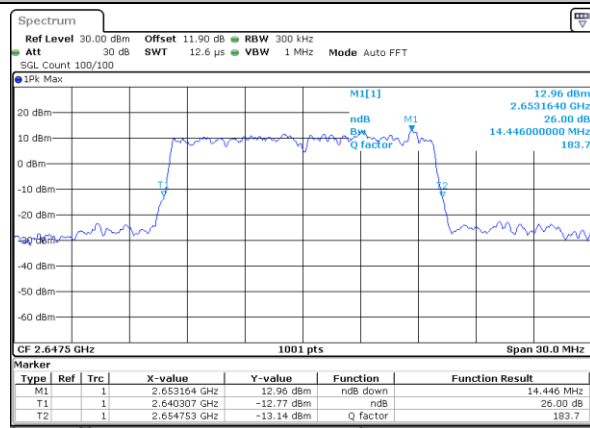
Date: 15 SEP 2017 20:54:52

Highest Channel / 15MHz / QPSK



Date: 15 SEP 2017 20:55:22

Highest Channel / 15MHz / 16QAM

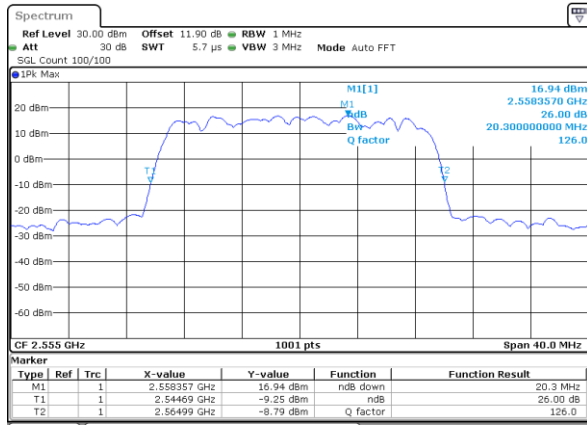


Date: 15 SEP 2017 20:55:32

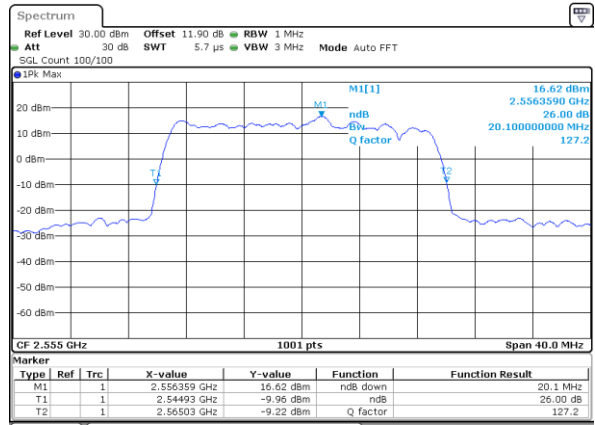


LTE Band 41

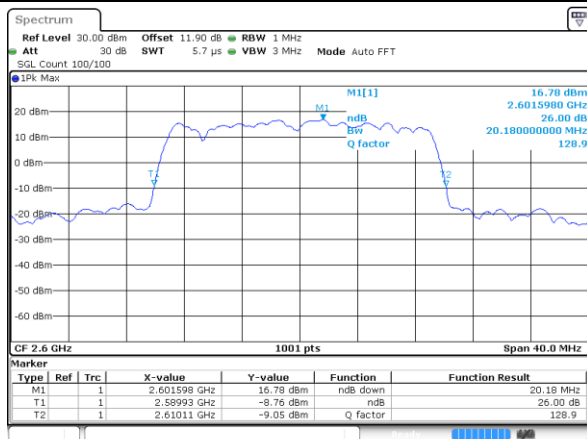
Lowest Channel / 20MHz / QPSK



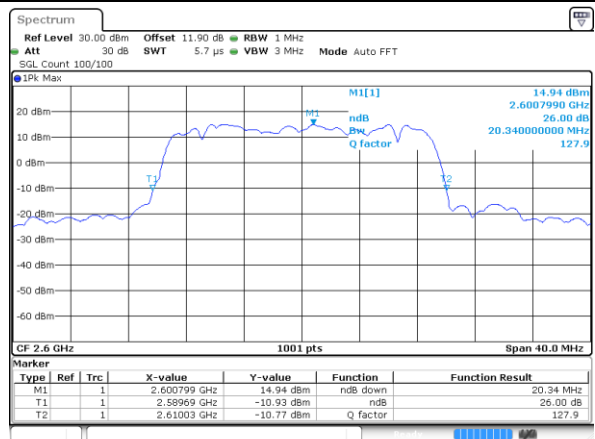
Lowest Channel / 20MHz / 16QAM



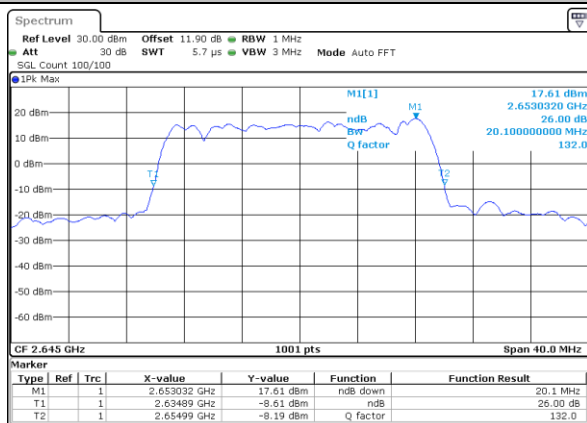
Middle Channel / 20MHz / QPSK



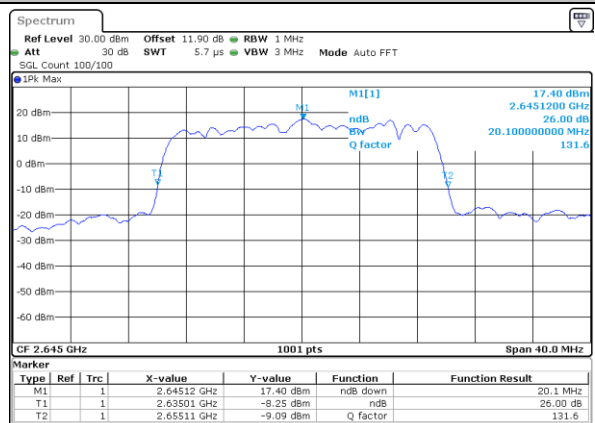
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



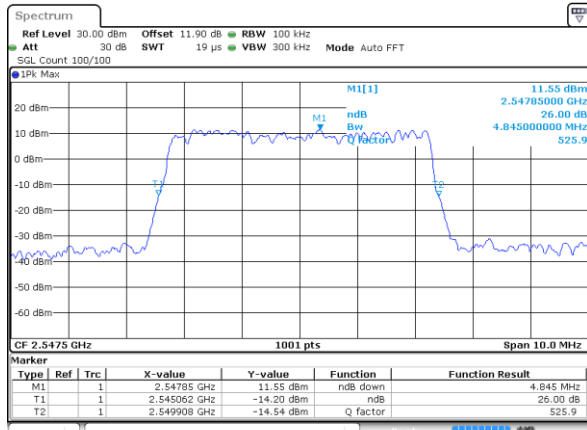
Highest Channel / 20MHz / 16QAM





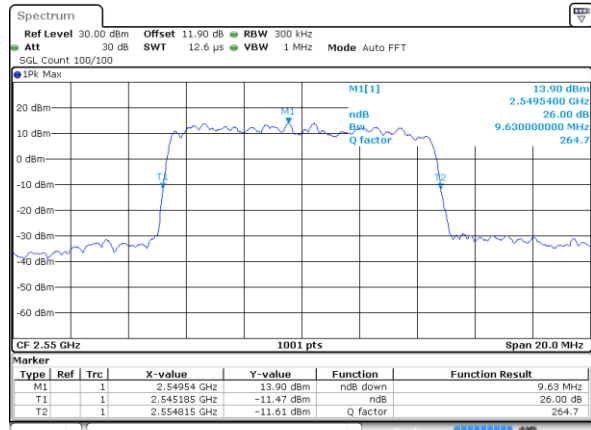
LTE Band 41

Lowest Channel / 5MHz / 64QAM



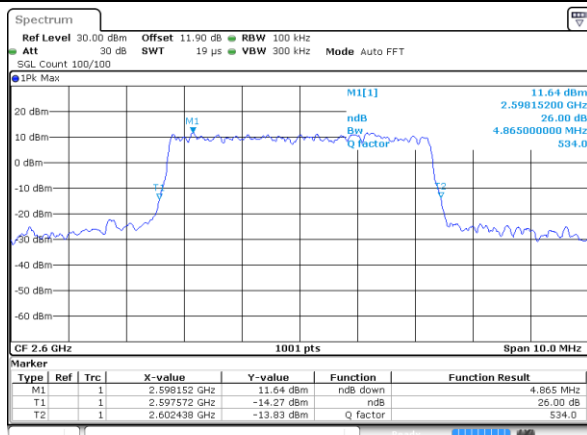
Date: 29 SEP 2017 13:56:07

Lowest Channel / 10MHz / 64QAM



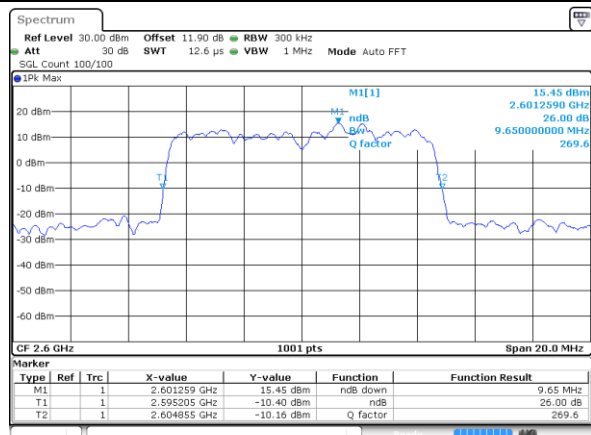
Date: 29 SEP 2017 13:57:13

Middle Channel / 5MHz / 64QAM



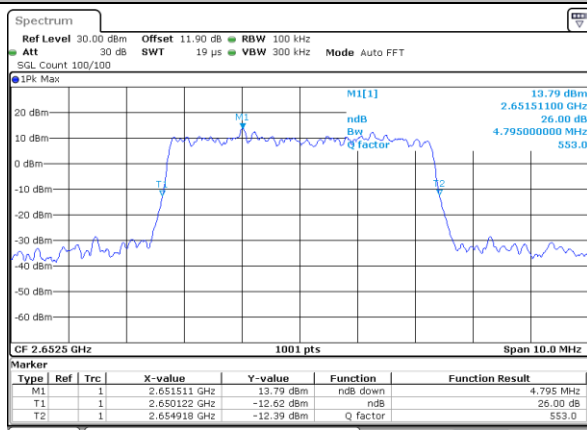
Date: 29 SEP 2017 13:56:29

Middle Channel / 10MHz / 64QAM



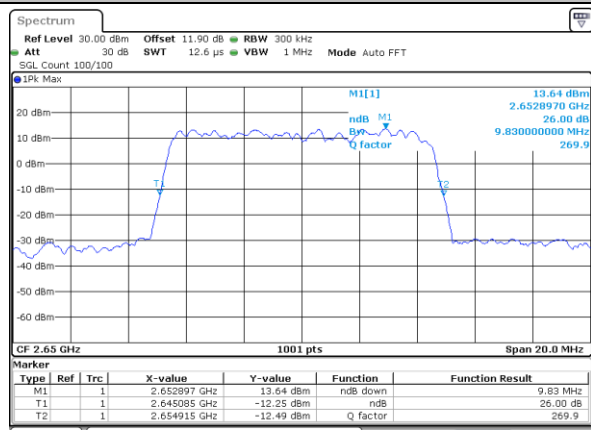
Date: 29 SEP 2017 13:57:33

Highest Channel / 5MHz / 64QAM



Date: 29 SEP 2017 13:56:51

Highest Channel / 10MHz / 64QAM

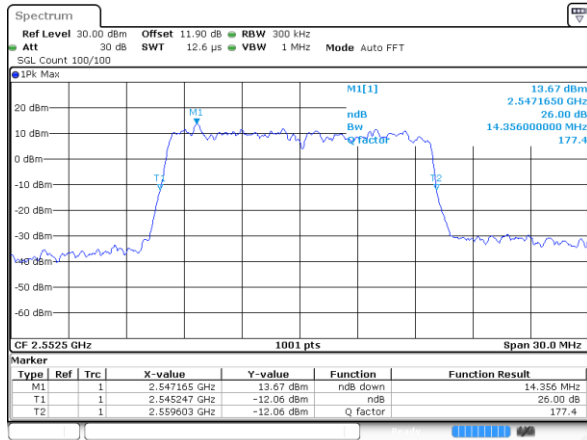


Date: 29 SEP 2017 13:57:55



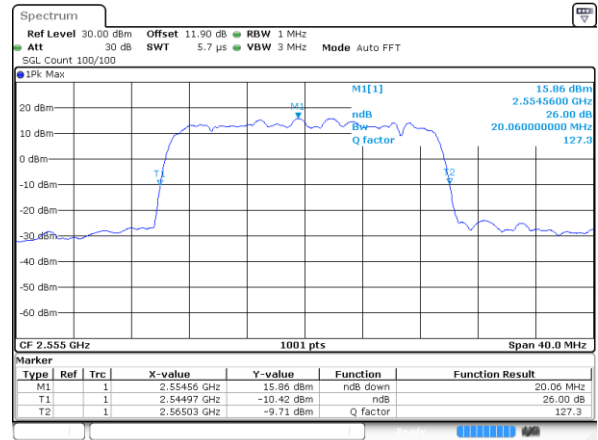
LTE Band 41

Lowest Channel / 15MHz / 64QAM



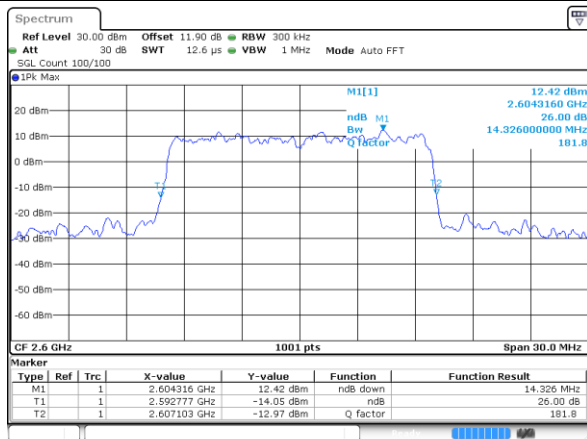
Date: 29 SEP 2017 13:58:17

Lowest Channel / 20MHz / 64QAM



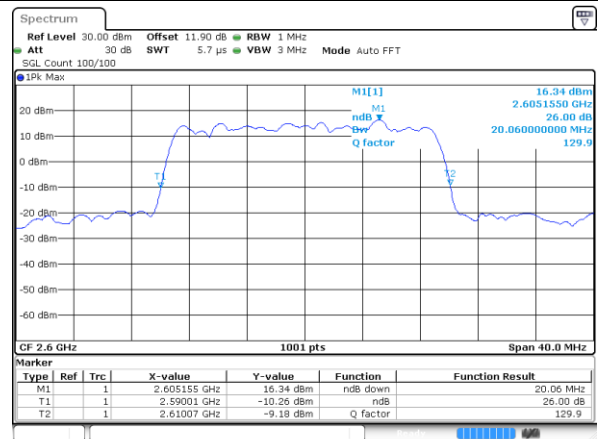
Date: 29 SEP 2017 13:59:21

Middle Channel / 15MHz / 64QAM



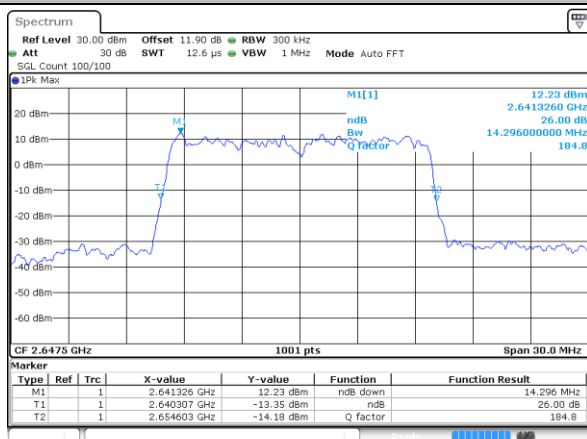
Date: 29 SEP 2017 13:58:38

Middle Channel / 20MHz / 64QAM



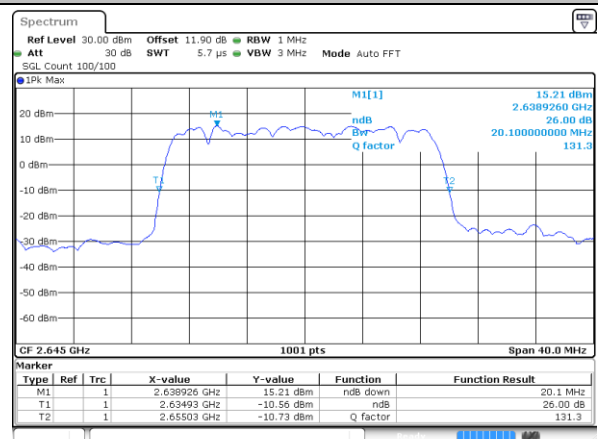
Date: 29 SEP 2017 13:59:42

Highest Channel / 15MHz / 64QAM



Date: 29 SEP 2017 13:59:00

Highest Channel / 20MHz / 64QAM



Date: 29 SEP 2017 14:00:04

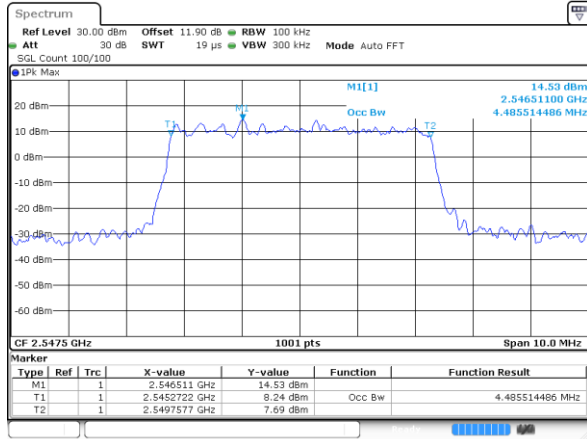
**Occupied Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.49	4.51	9.07	9.01	13.43	13.46	18.38	18.14
Middle CH	-	-	-	-	4.48	4.5	9.01	8.97	13.46	13.43	18.5	18.1
Highest CH	-	-	-	-	4.49	4.46	8.95	8.99	13.49	13.4	18.38	18.18
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.47	-	8.99	-	13.49	-	18.3	-
Middle CH	-	-	-	-	4.51	-	9.07	-	13.46	-	18.3	-
Highest CH	-	-	-	-	4.46	-	8.97	-	13.49	-	18.22	-



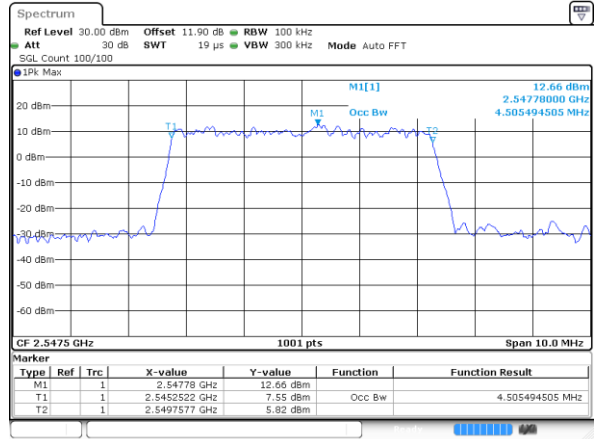
LTE Band 41

Lowest Channel / 5MHz / QPSK



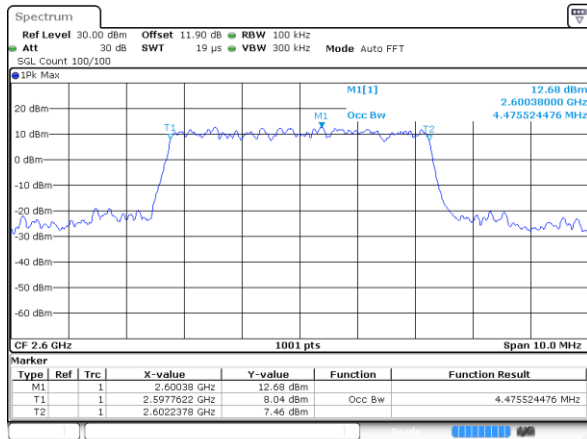
Date: 15 SEP 2017 20:49:41

Lowest Channel / 5MHz / 16QAM



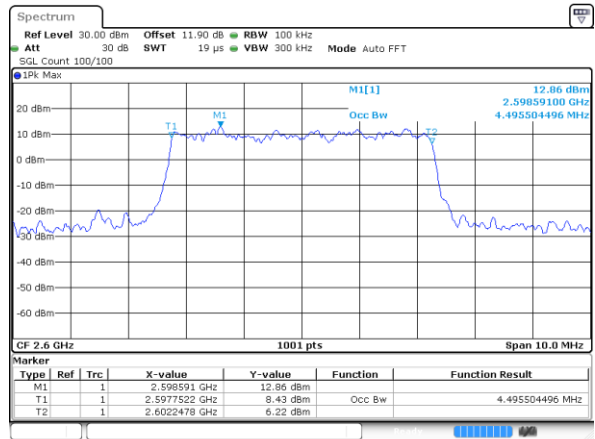
Date: 15 SEP 2017 20:49:51

Middle Channel / 5MHz / QPSK



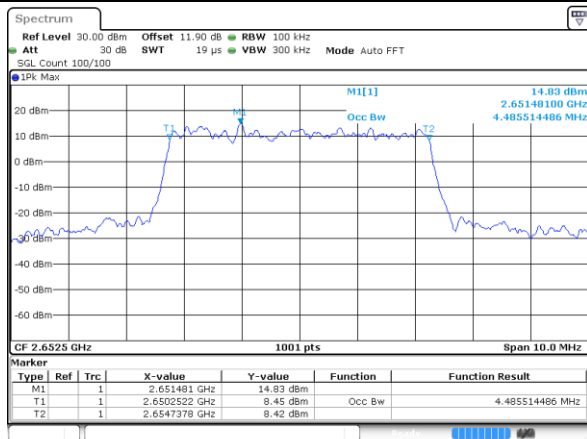
Date: 15 SEP 2017 20:50:21

Middle Channel / 5MHz / 16QAM



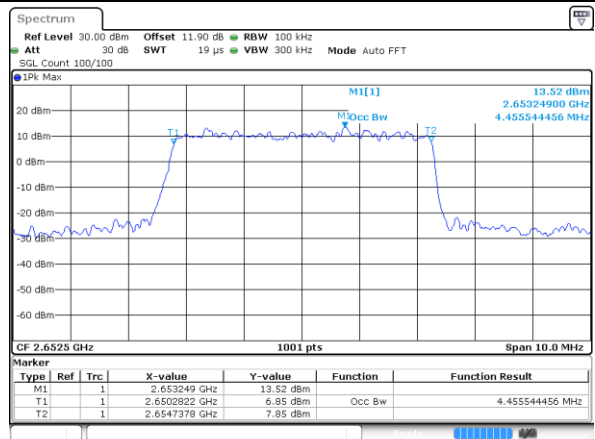
Date: 15 SEP 2017 20:50:31

Highest Channel / 5MHz / QPSK



Date: 15 SEP 2017 20:51:01

Highest Channel / 5MHz / 16QAM

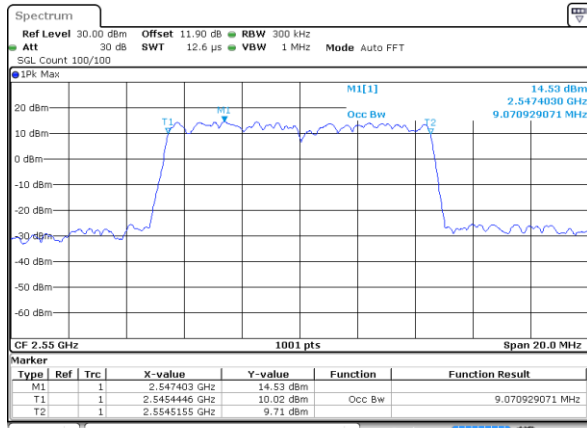


Date: 15 SEP 2017 20:51:11



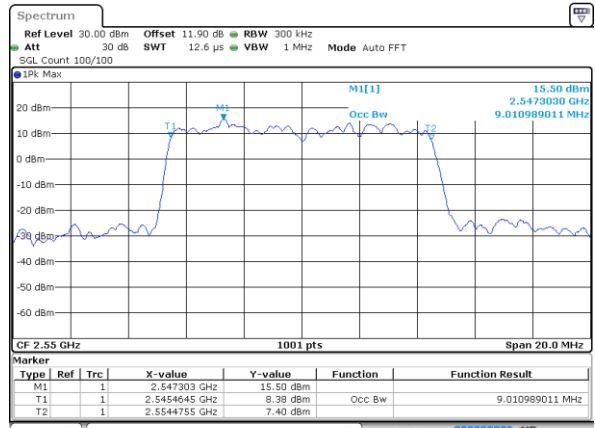
LTE Band 41

Lowest Channel / 10MHz / QPSK



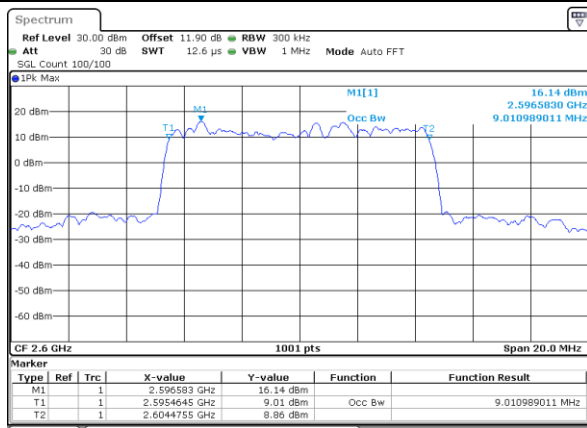
Date: 15 SEP 2017 20:51:41

Lowest Channel / 10MHz / 16QAM



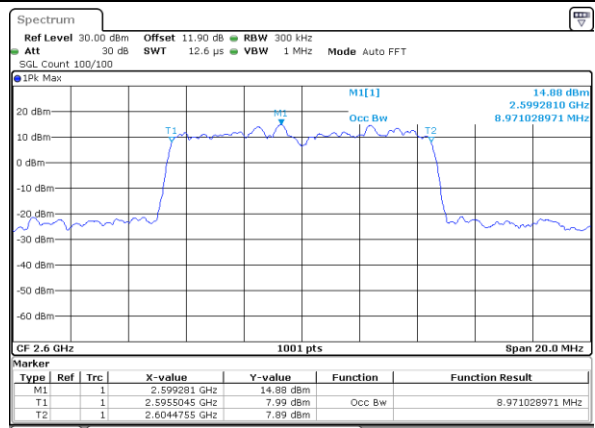
Date: 15 SEP 2017 20:51:51

Middle Channel / 10MHz / QPSK



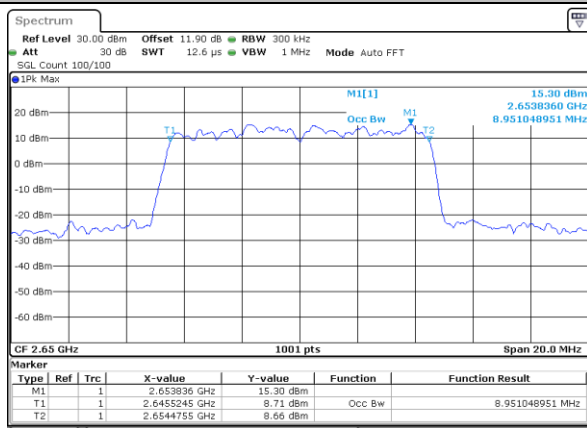
Date: 15 SEP 2017 20:52:21

Middle Channel / 10MHz / 16QAM



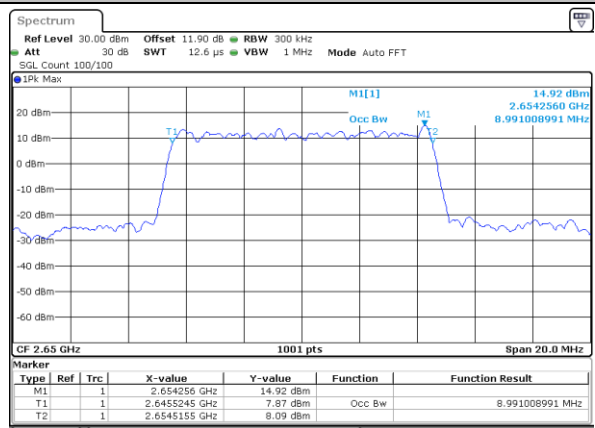
Date: 15 SEP 2017 20:52:31

Highest Channel / 10MHz / QPSK



Date: 15 SEP 2017 20:53:01

Highest Channel / 10MHz / 16QAM

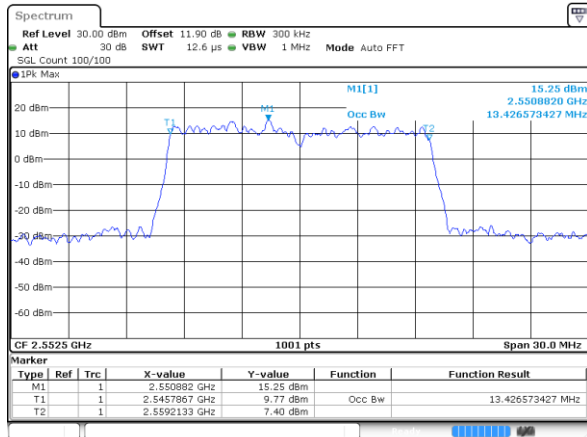


Date: 15 SEP 2017 20:53:11



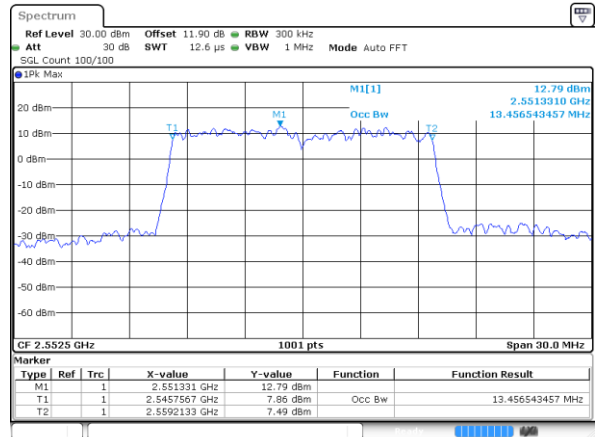
LTE Band 41

Lowest Channel / 15MHz / QPSK



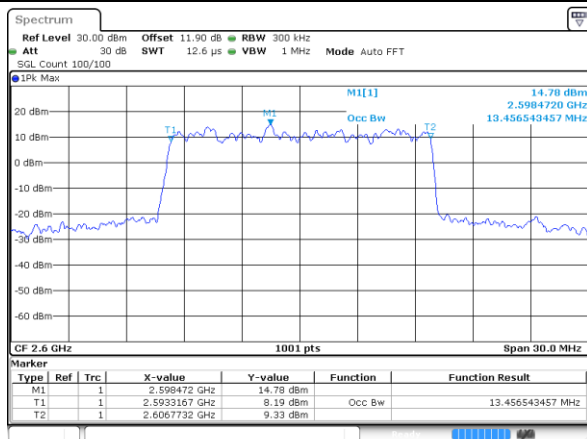
Date: 15 SEP 2017 20:53:41

Lowest Channel / 15MHz / 16QAM



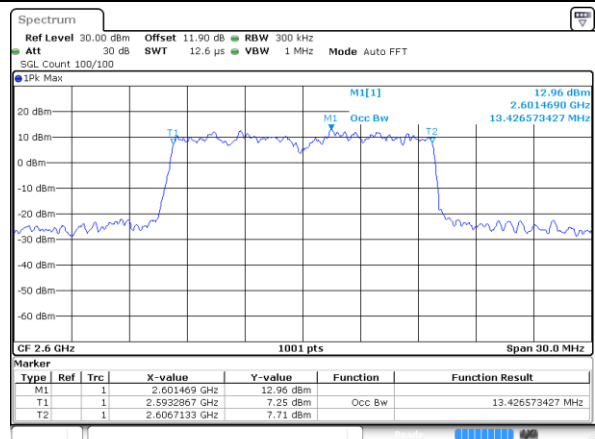
Date: 15 SEP 2017 20:53:51

Middle Channel / 15MHz / QPSK



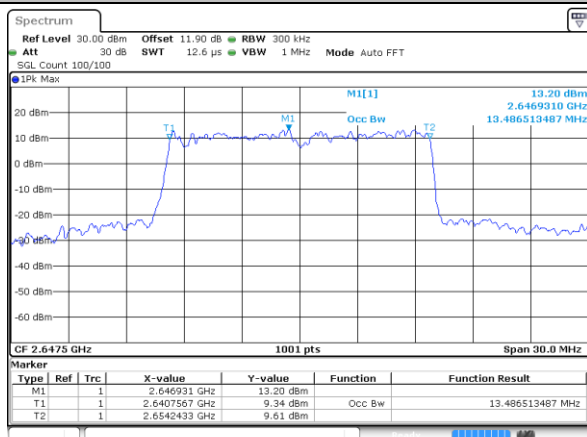
Date: 15 SEP 2017 20:54:22

Middle Channel / 15MHz / 16QAM



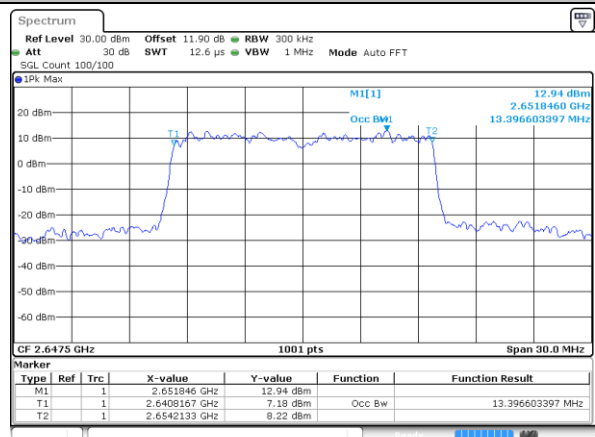
Date: 15 SEP 2017 20:54:32

Highest Channel / 15MHz / QPSK



Date: 15 SEP 2017 20:55:02

Highest Channel / 15MHz / 16QAM

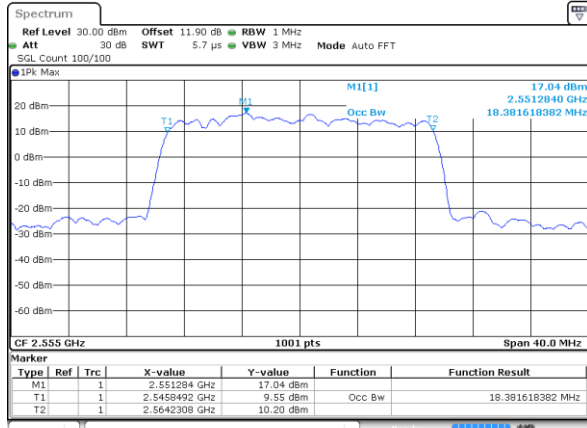


Date: 15 SEP 2017 20:55:12



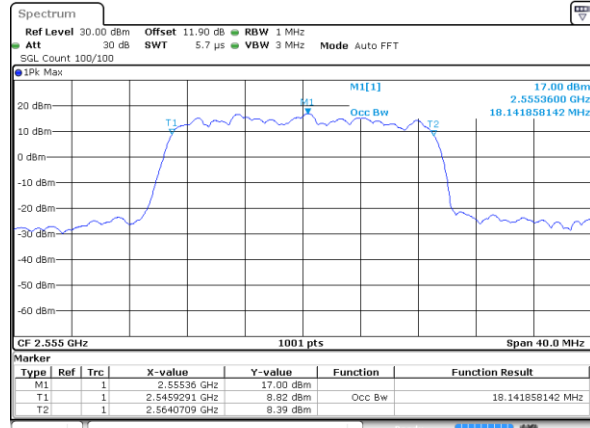
LTE Band 41

Lowest Channel / 20MHz / QPSK



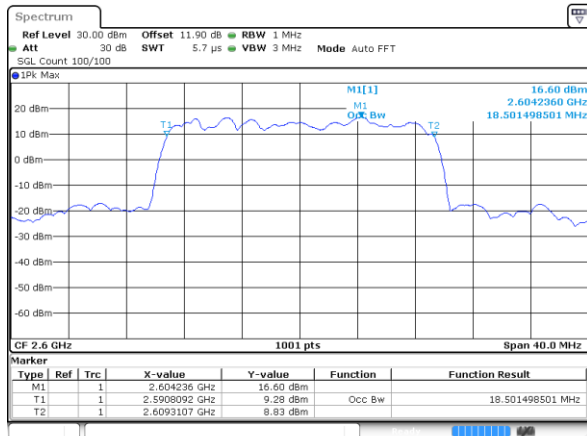
Date: 15 SEP 2017 20:55:42

Lowest Channel / 20MHz / 16QAM



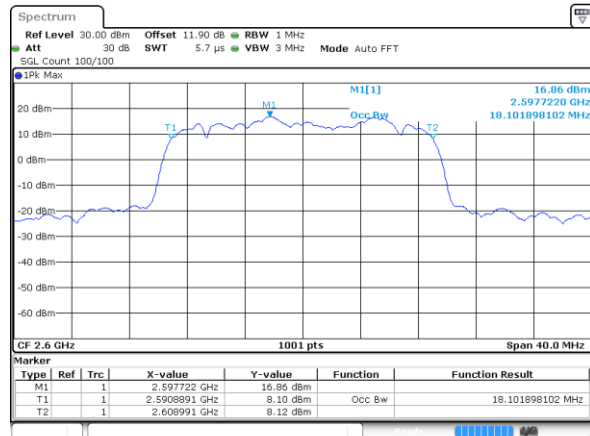
Date: 15 SEP 2017 20:55:52

Middle Channel / 20MHz / QPSK



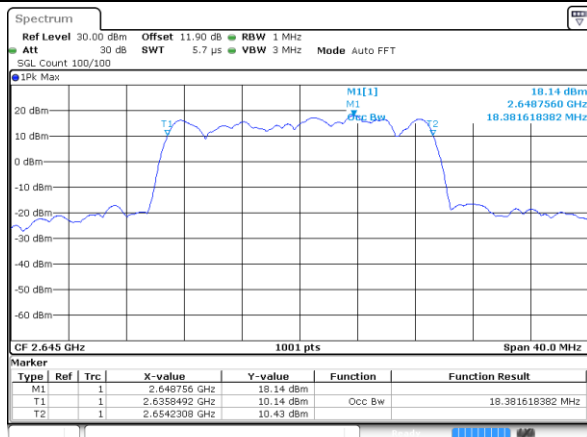
Date: 15 SEP 2017 20:56:22

Middle Channel / 20MHz / 16QAM



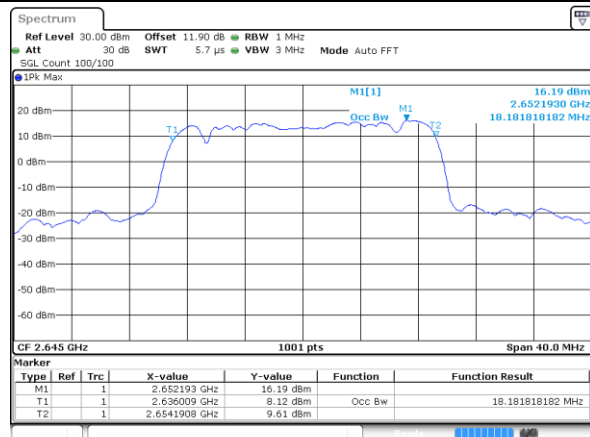
Date: 15 SEP 2017 20:56:32

Highest Channel / 20MHz / QPSK



Date: 15 SEP 2017 20:57:02

Highest Channel / 20MHz / 16QAM

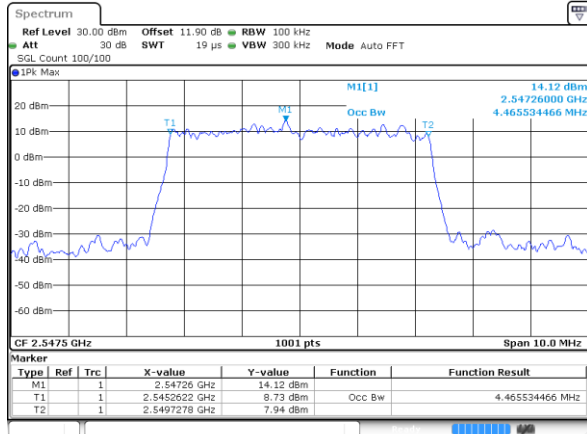


Date: 15 SEP 2017 20:57:12

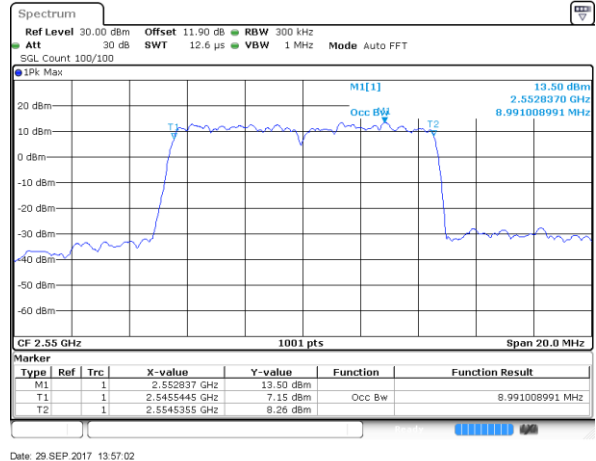


LTE Band 41

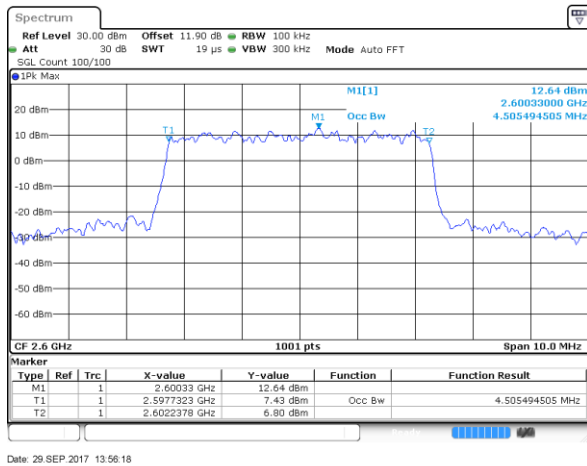
Lowest Channel / 5MHz / 64QAM



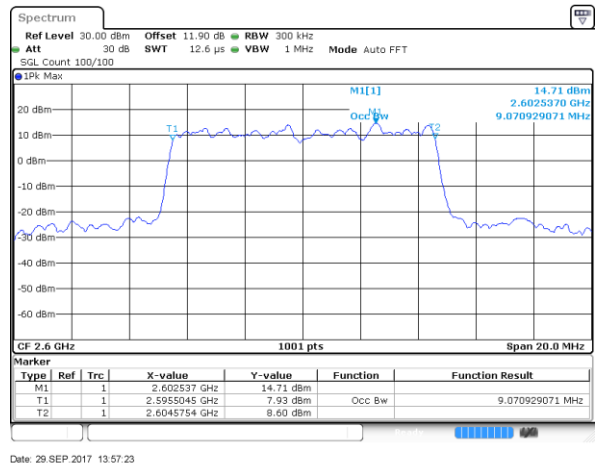
Lowest Channel / 10MHz / 64QAM



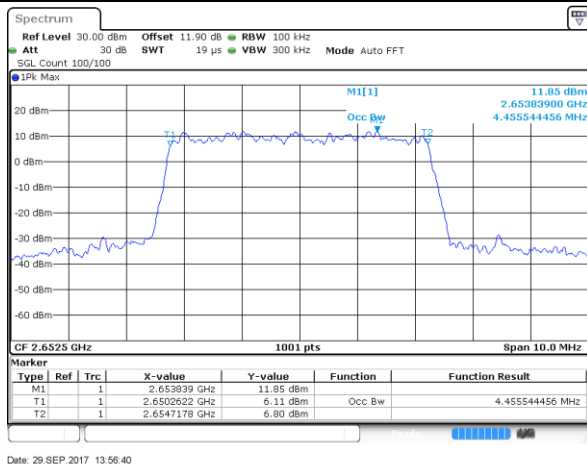
Middle Channel / 5MHz / 64QAM



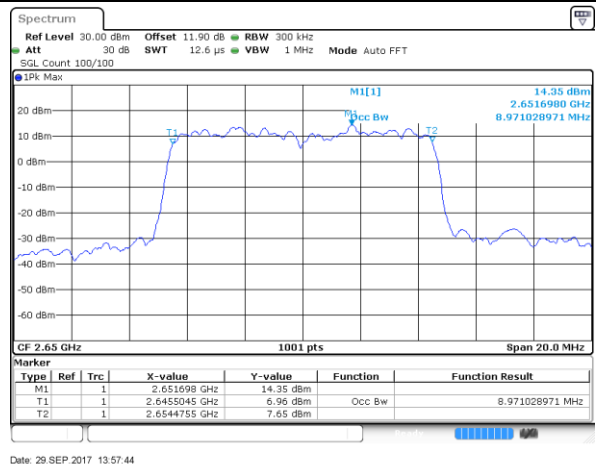
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



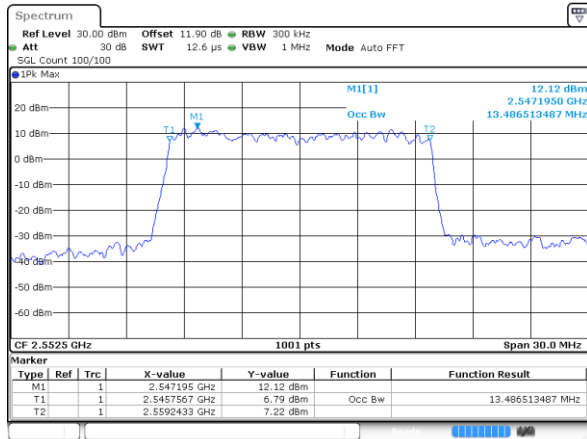
Highest Channel / 10MHz / 64QAM



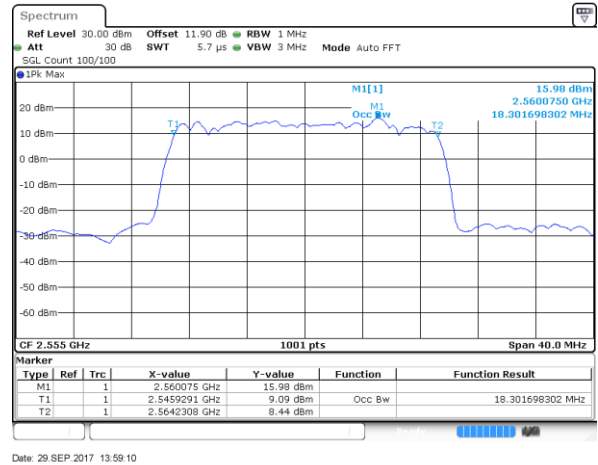


LTE Band 41

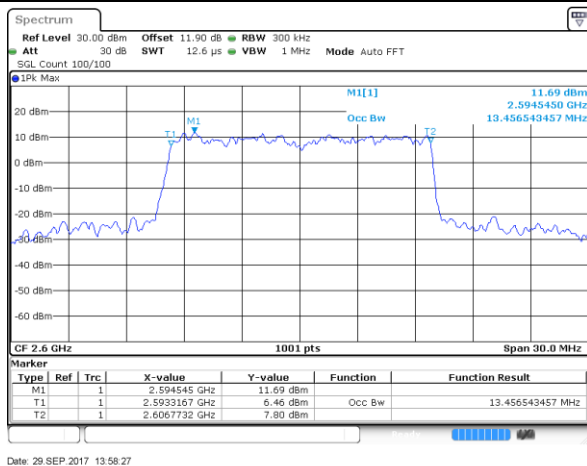
Lowest Channel / 15MHz / 64QAM



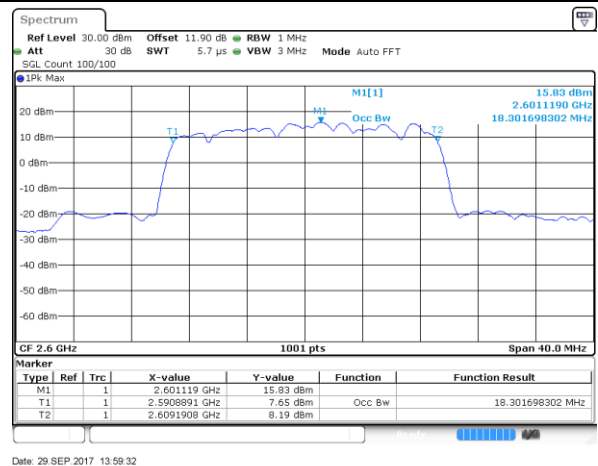
Lowest Channel / 20MHz / 64QAM



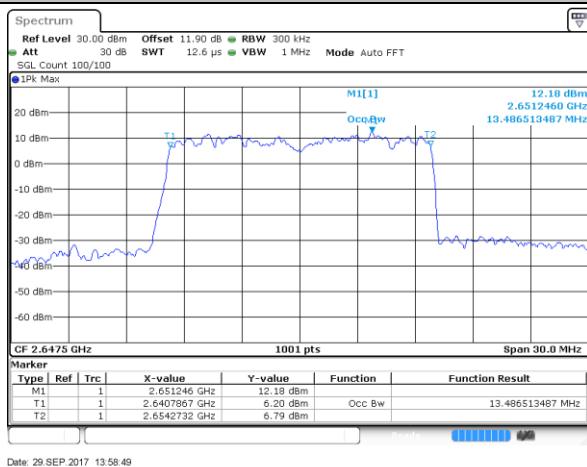
Middle Channel / 15MHz / 64QAM



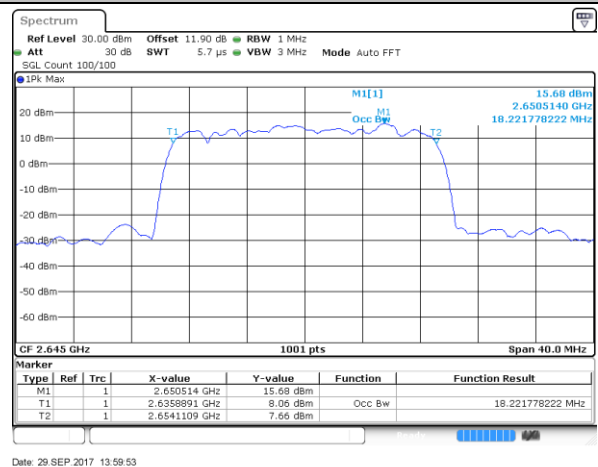
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



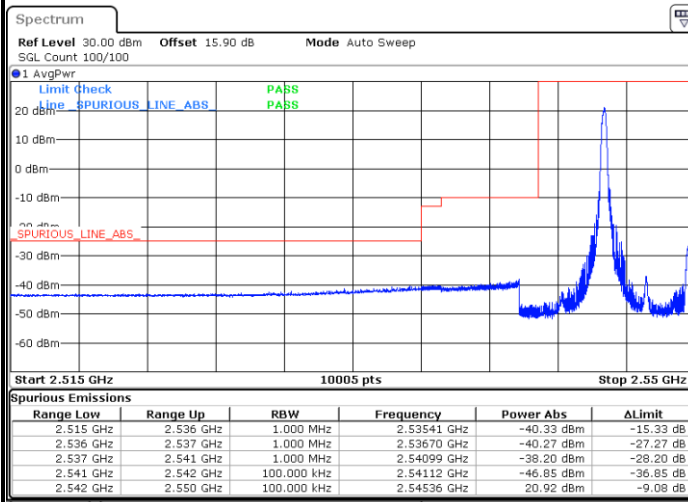


Conducted Band Edge

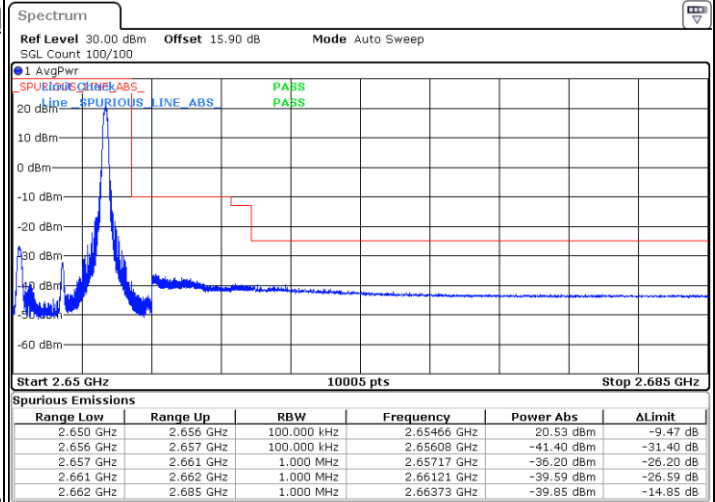


LTE Band 41 / 5MHz / QPSK

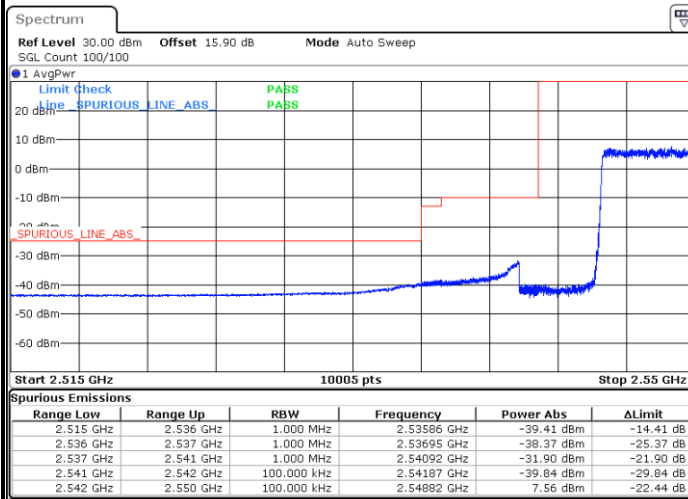
Lowest Band Edge / 1 RB



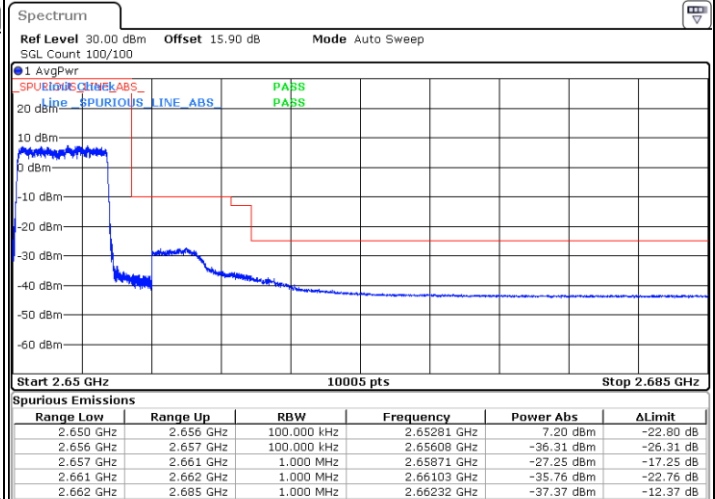
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



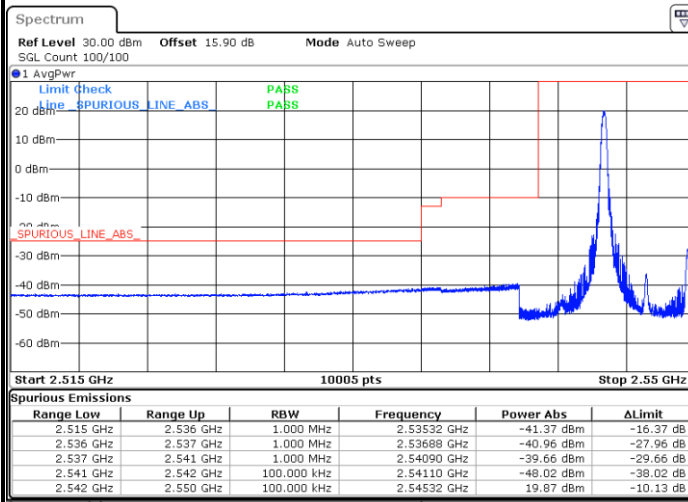
Highest Band Edge / Full RB



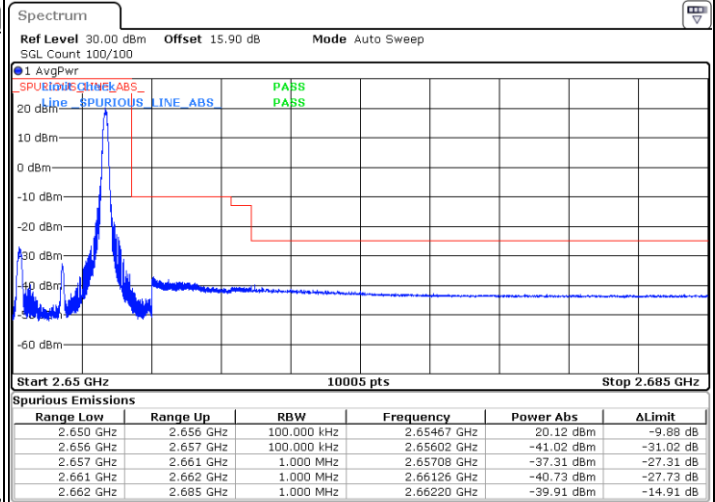


LTE Band 41 / 5MHz / 16QAM

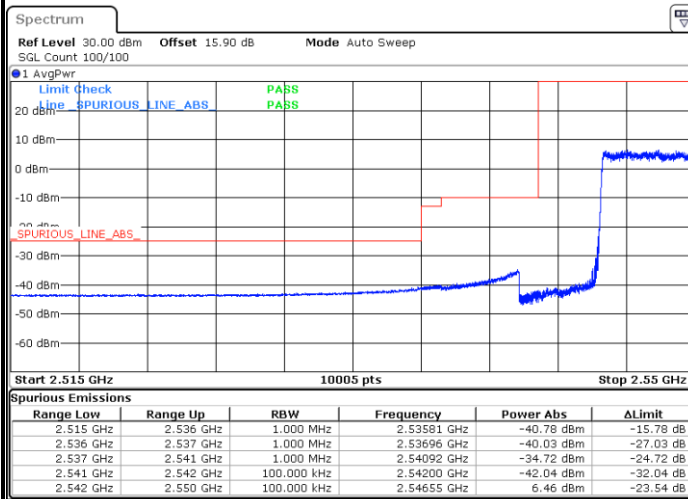
Lowest Band Edge / 1RB



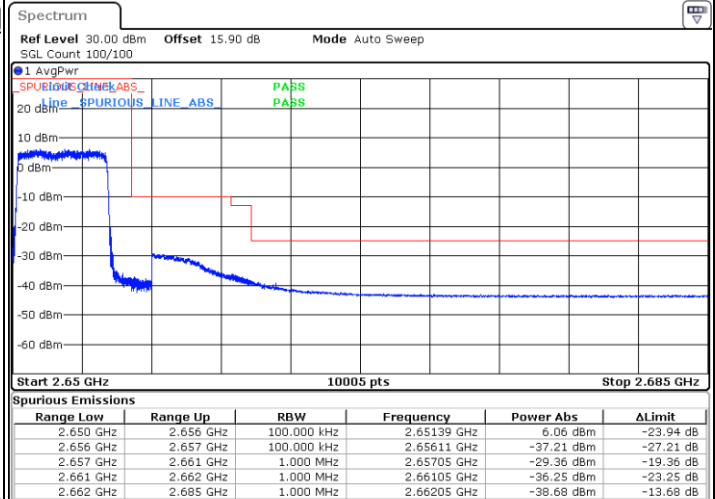
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



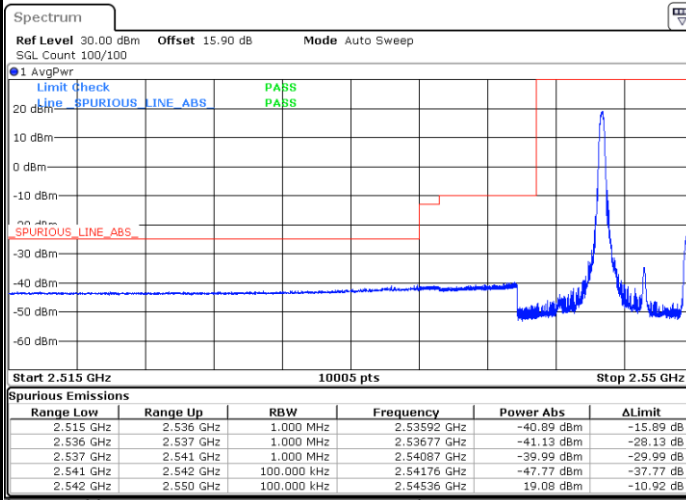
Highest Band Edge / Full RB



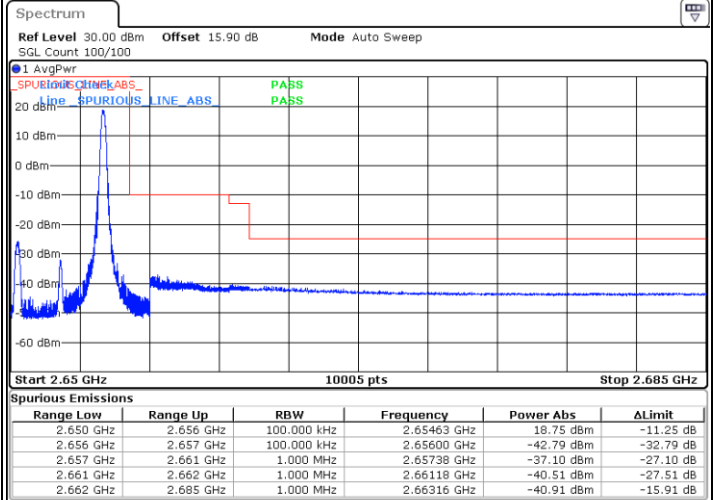


LTE Band 41 / 5MHz / 674QAM

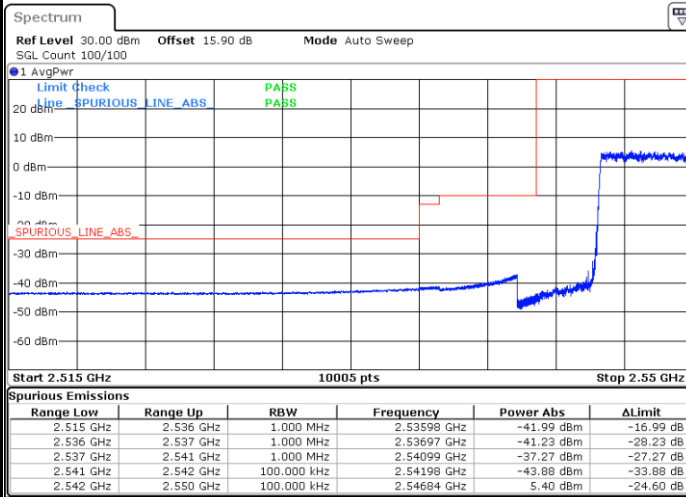
Lowest Band Edge / 1RB



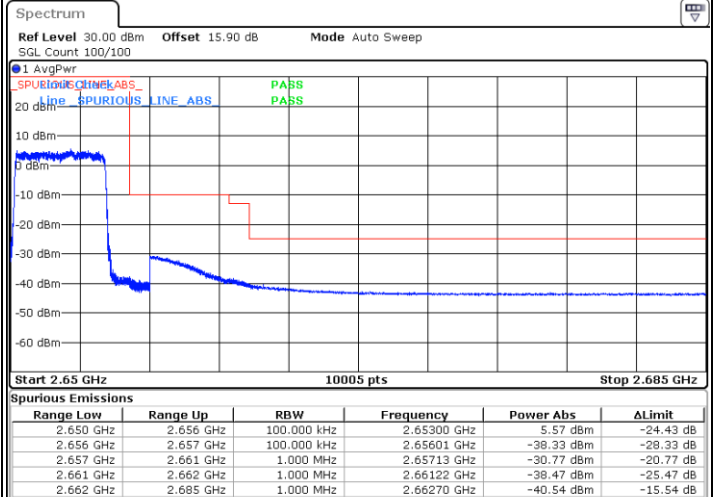
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



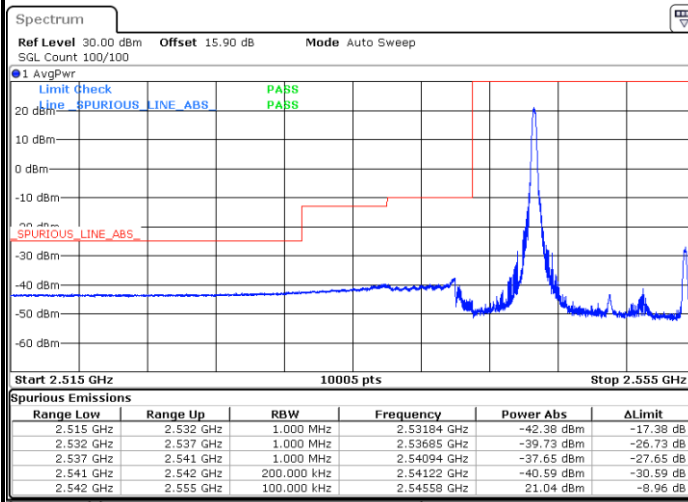
Highest Band Edge / Full RB



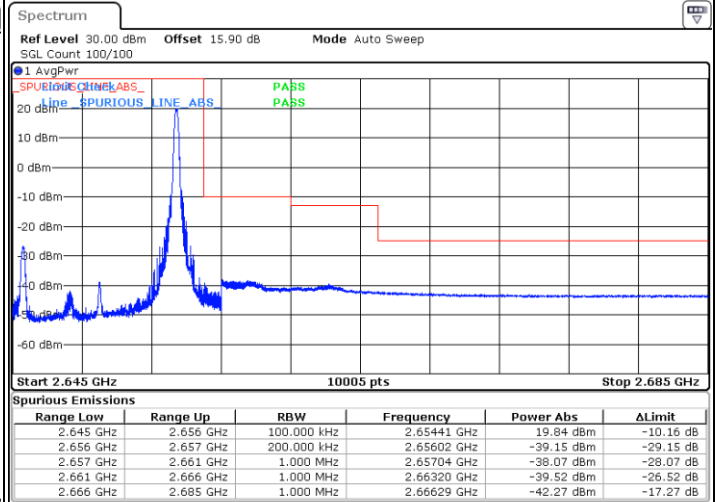


LTE Band 41 / 10MHz / QPSK

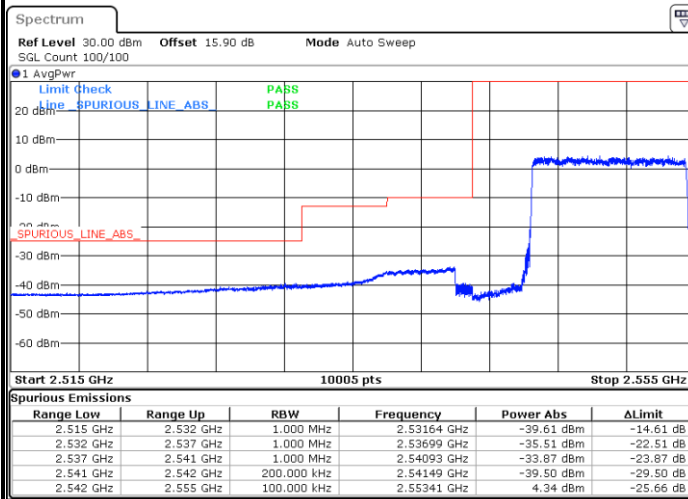
Lowest Band Edge / 1 RB



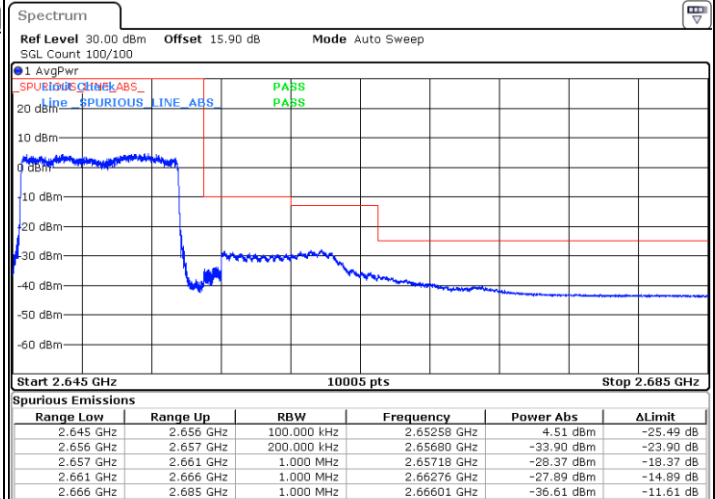
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



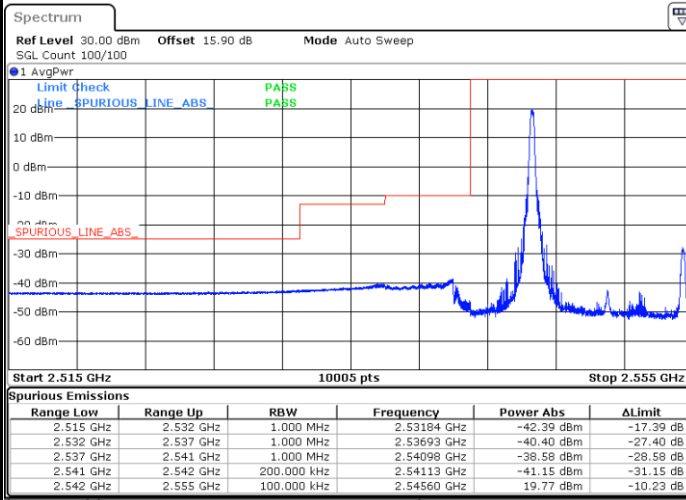
Highest Band Edge / Full RB



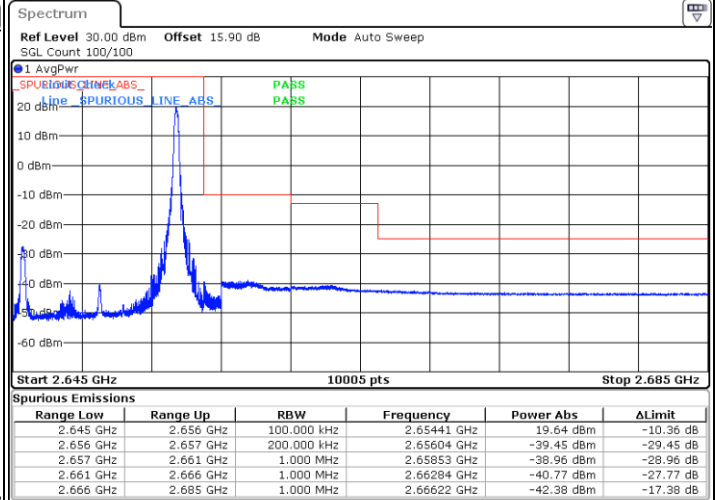


LTE Band 41 / 10MHz / 16QAM

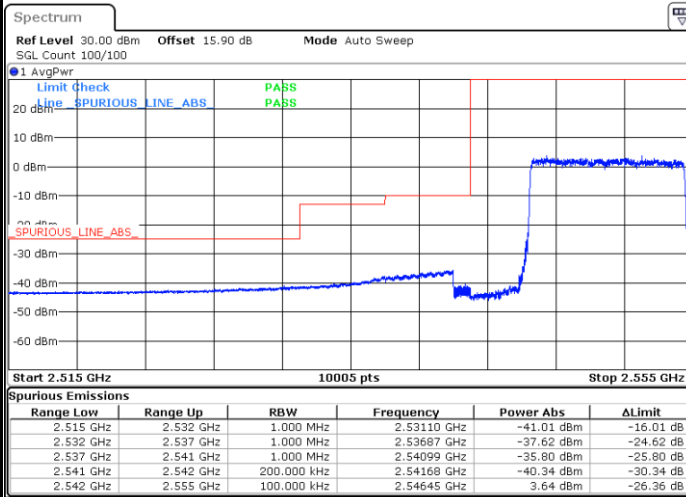
Lowest Band Edge / 1 RB



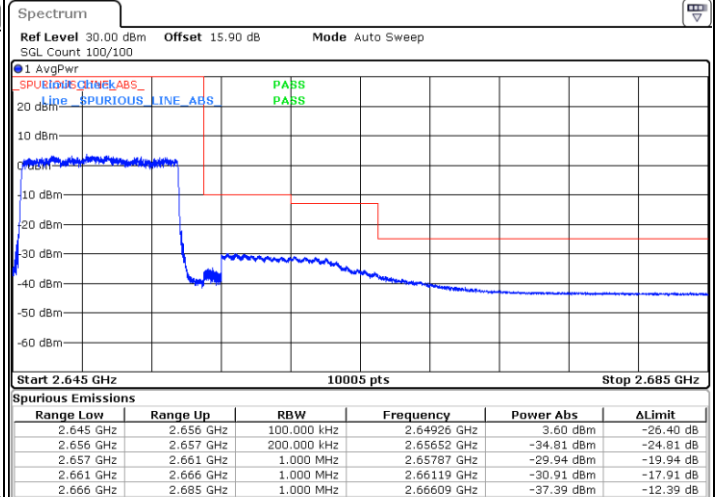
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



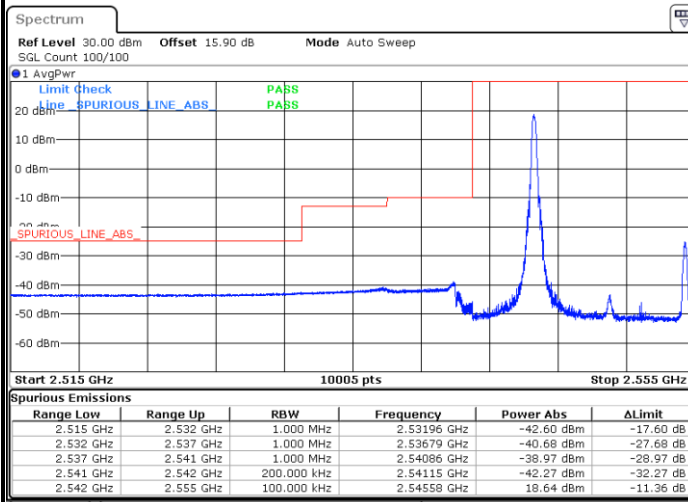
Highest Band Edge / Full RB



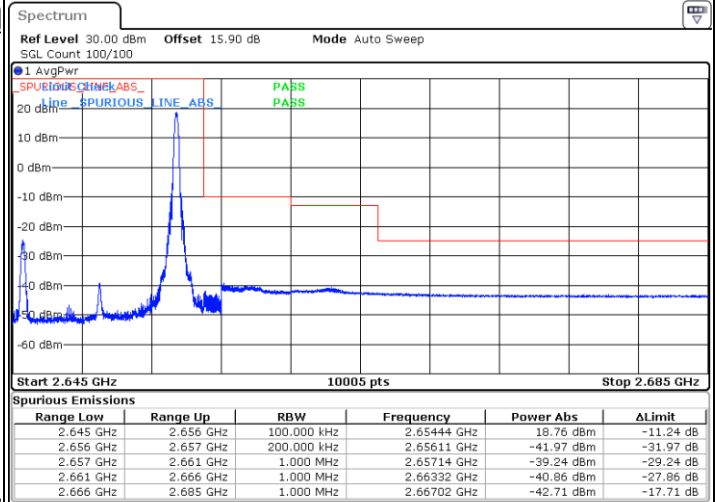


LTE Band 41 / 10MHz / 64QAM

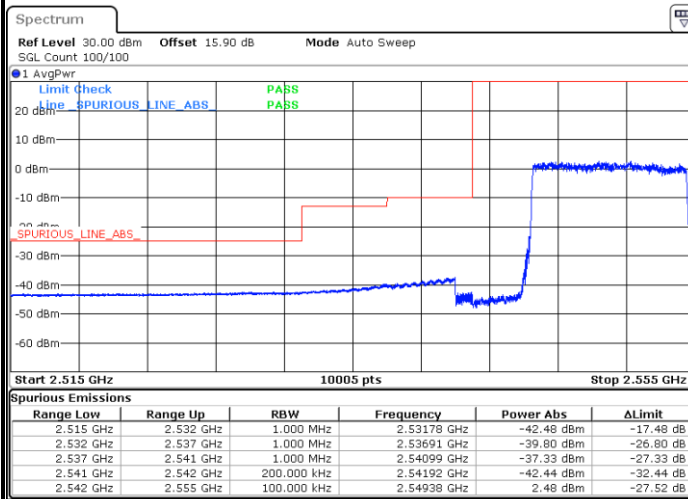
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

