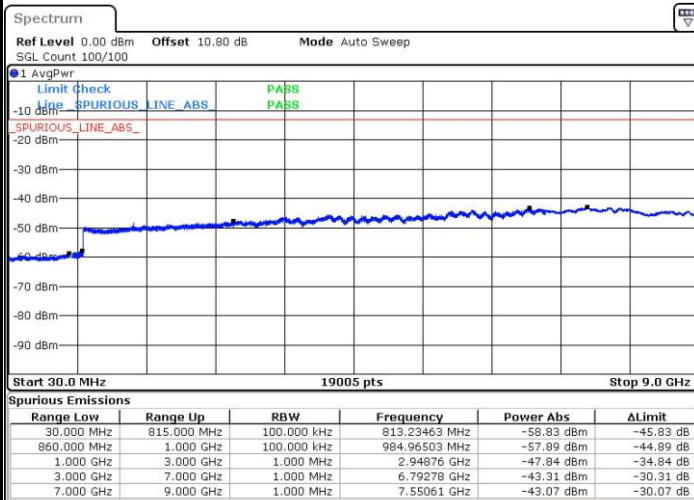




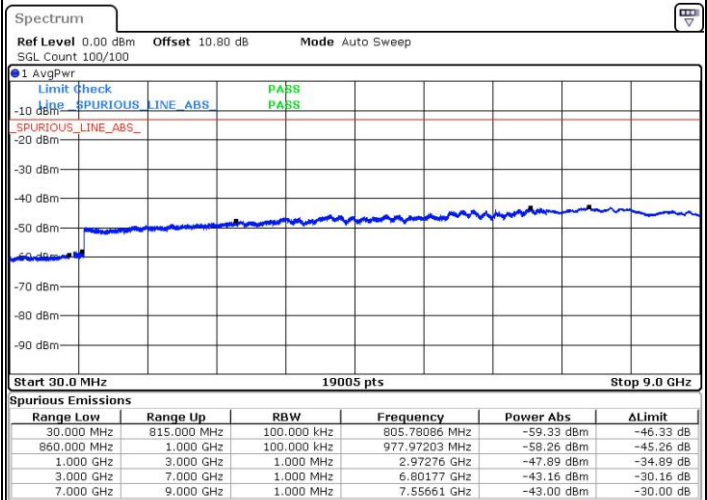
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



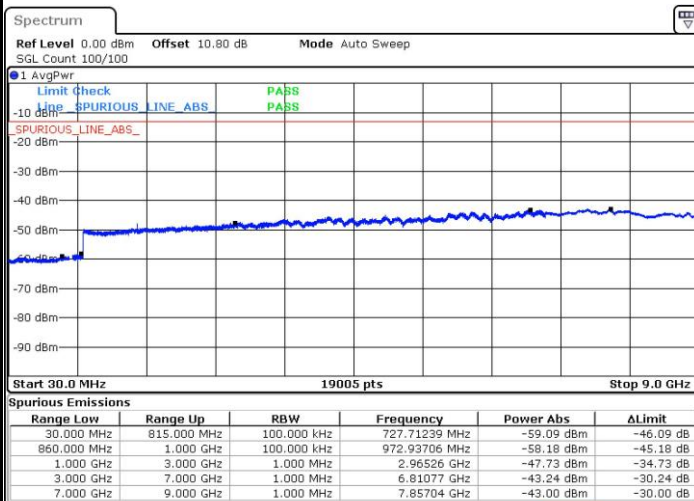
Date: 22 SEP.2018 04:32:55

Middle Channel / 64QAM



Date: 22 SEP.2018 04:34:18

Highest Channel / 64QAM

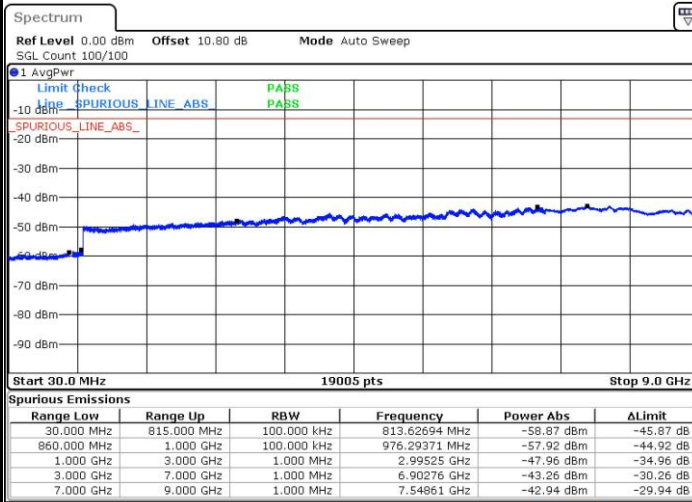


Date: 22 SEP.2018 04:39:02



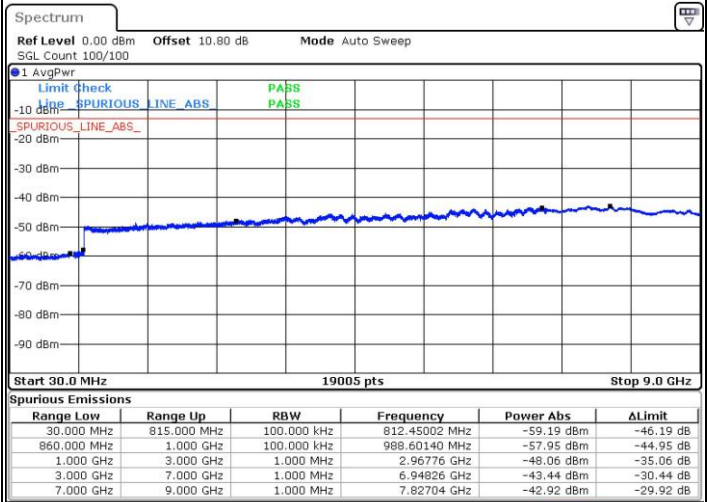
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



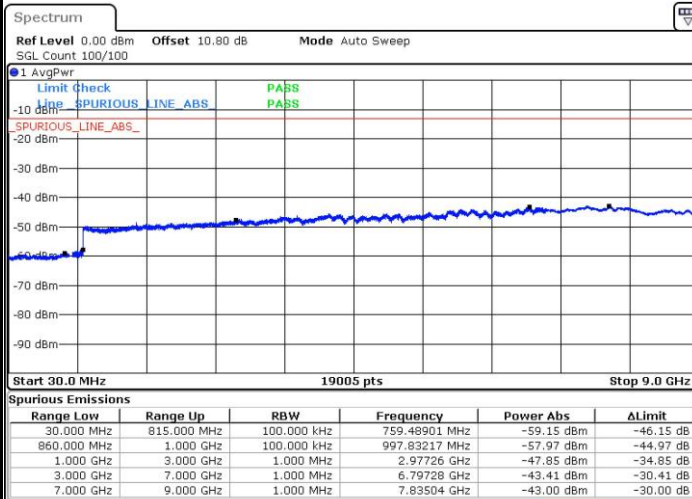
Date: 22 SEP.2018 03:55:29

Middle Channel / 64QAM



Date: 22 SEP.2018 03:56:52

Highest Channel / 64QAM

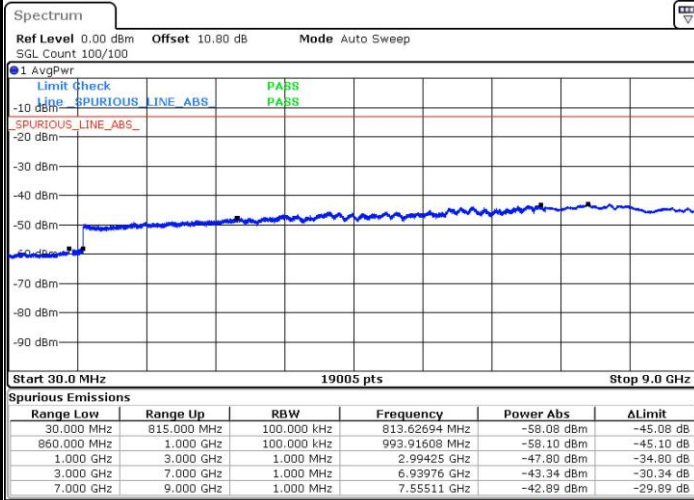


Date: 22 SEP.2018 04:01:35



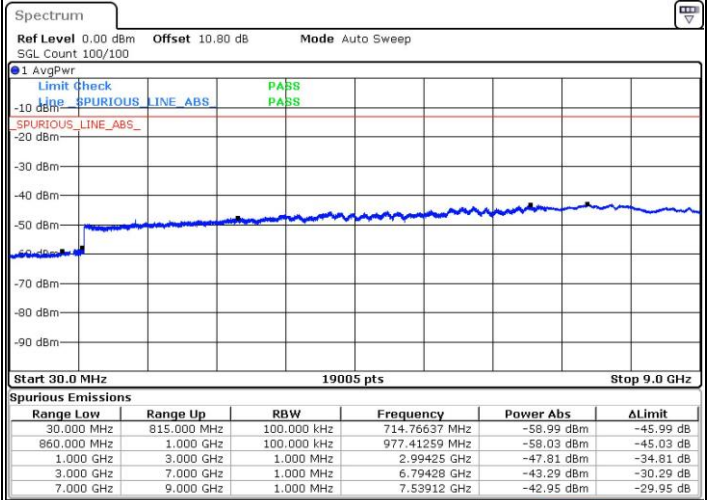
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



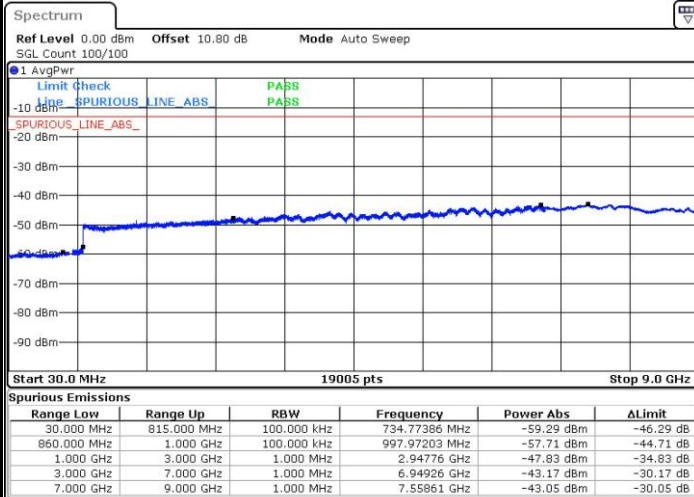
Date: 22 SEP.2018 04:06:18

Middle Channel / 64QAM



Date: 22 SEP.2018 04:07:41

Highest Channel / 64QAM

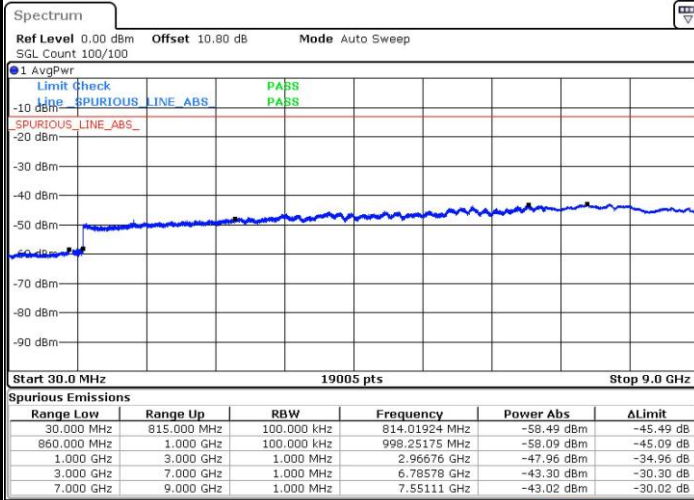


Date: 22 SEP.2018 04:17:23



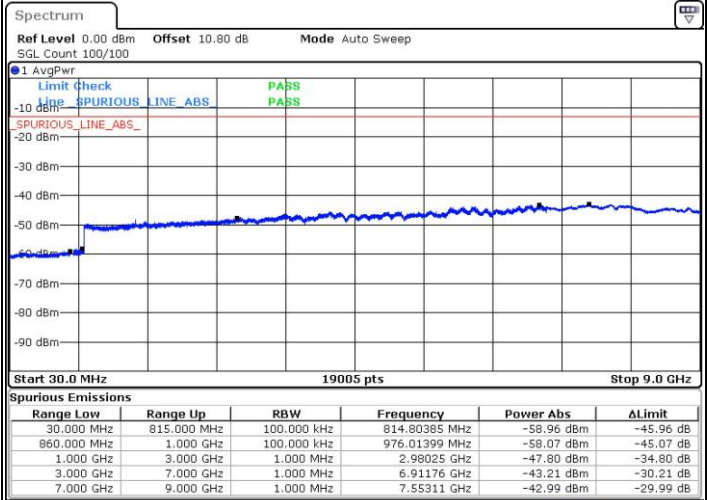
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



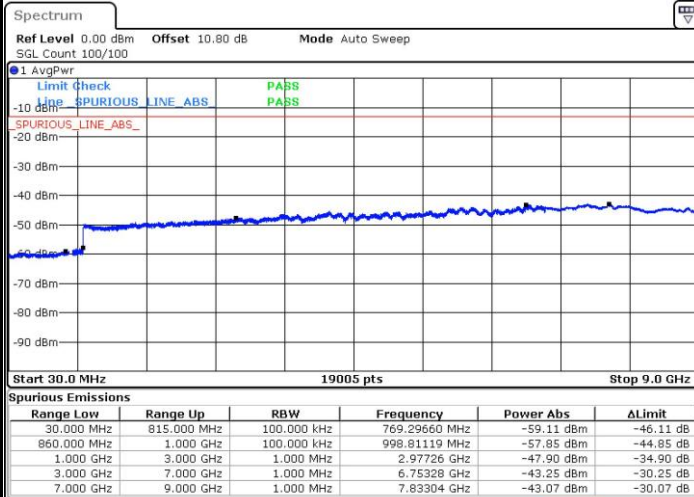
Date: 22 SEP.2018 04:22:06

Middle Channel / 64QAM



Date: 22 SEP.2018 04:23:29

Highest Channel / 64QAM



Date: 22 SEP.2018 04:28:12

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	0.0044	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0038	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0032	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0036	
20	Battery End Point	0.0043	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.40 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

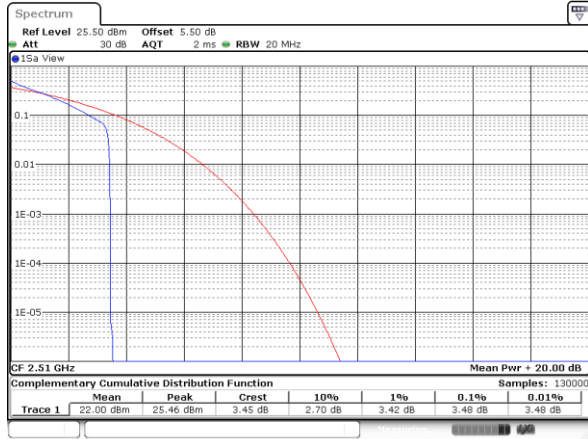
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.48	4.38	4.12	5.65	PASS
Middle CH	3.48	4.32	4.29	5.54	
Highest CH	3.54	4.26	4.87	5.54	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.57	6.35	PASS		
Middle CH	5.30	6.20			
Highest CH	6.32	6.17			

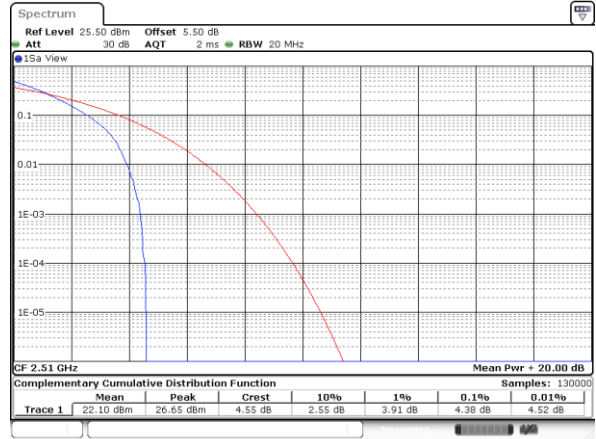


LTE Band 7 / 20MHz / QPSK

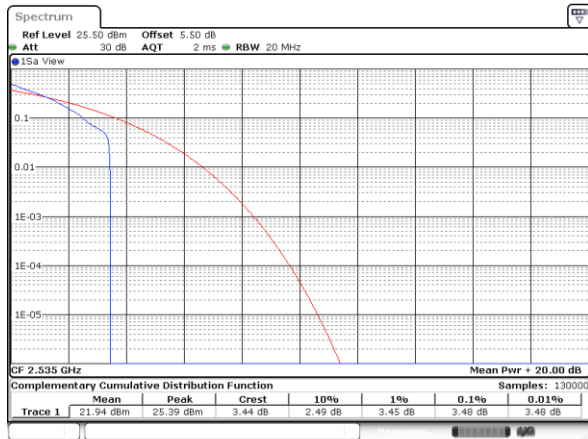
Lowest Channel / 1RB



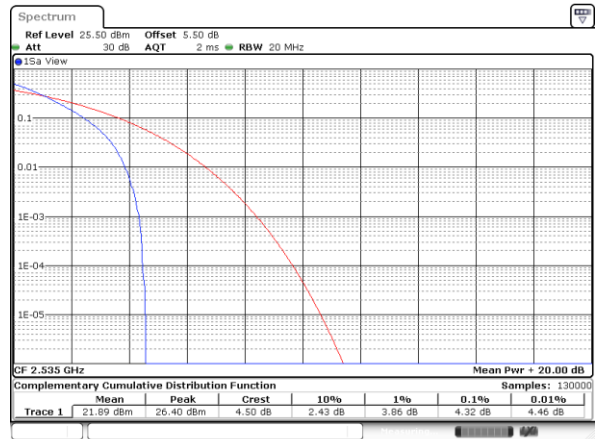
Lowest Channel / Full RB



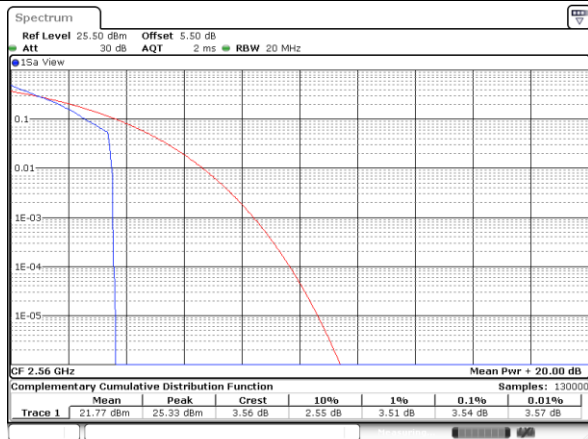
Middle Channel / 1RB



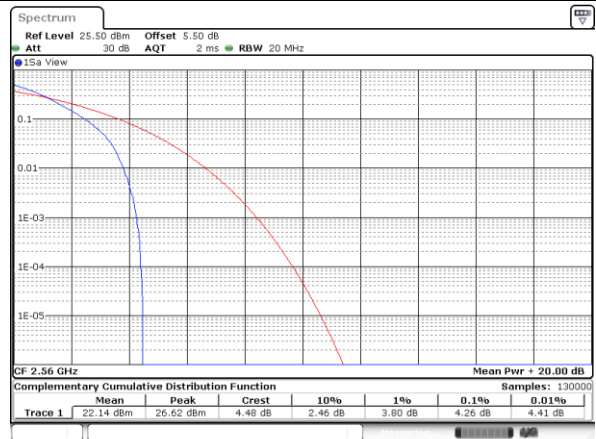
Middle Channel / Full RB



Highest Channel / 1RB



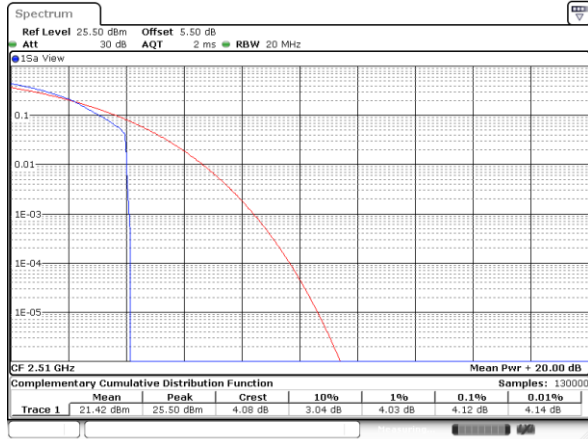
Highest Channel / Full RB



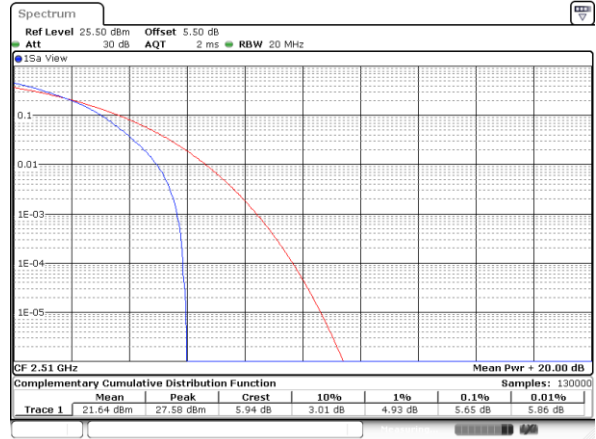


LTE Band 7 / 20MHz / 16QAM

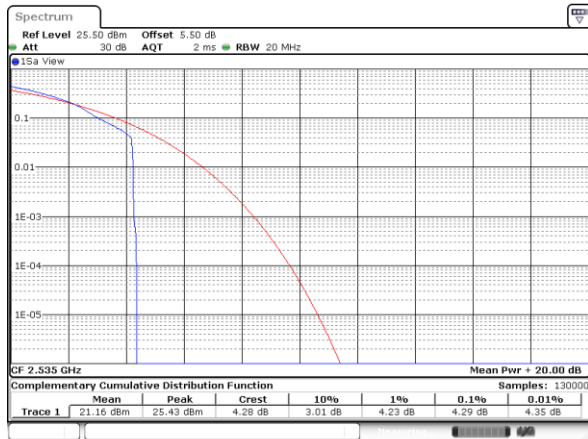
Lowest Channel / 1RB



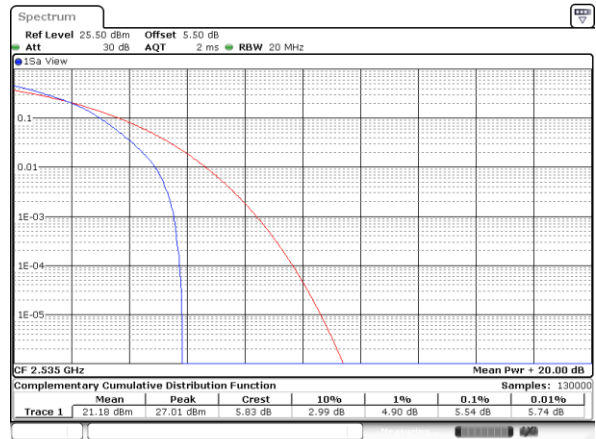
Lowest Channel / Full RB



Middle Channel / 1RB



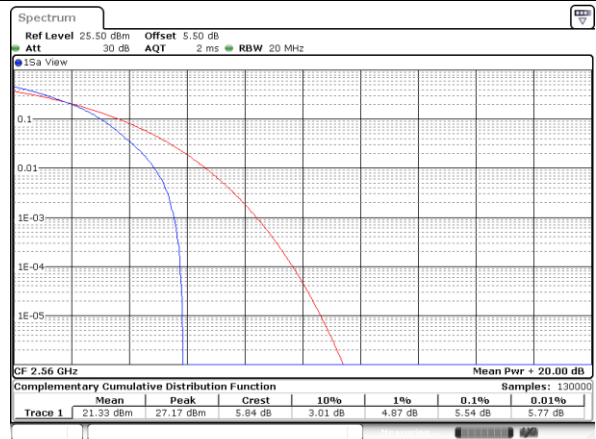
Middle Channel / Full RB



Highest Channel / 1RB



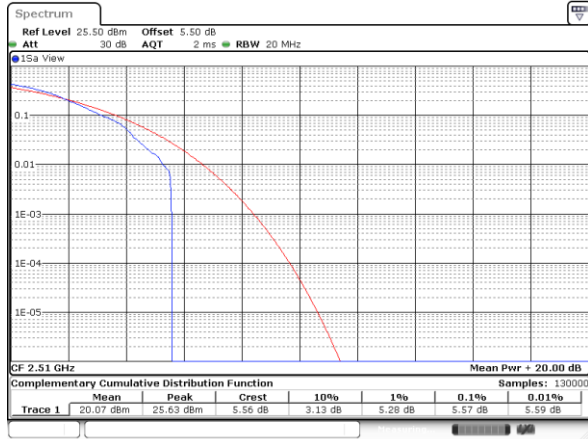
Highest Channel / Full RB





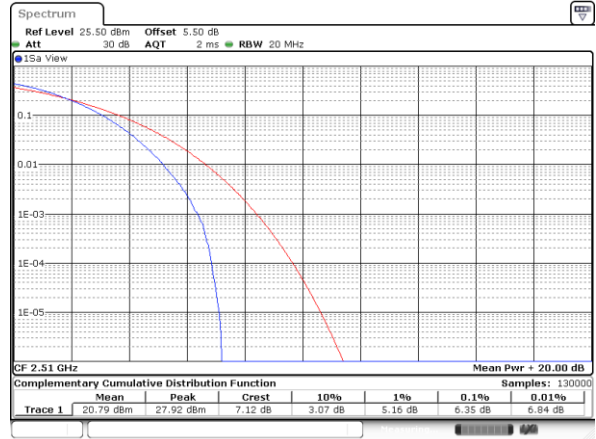
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



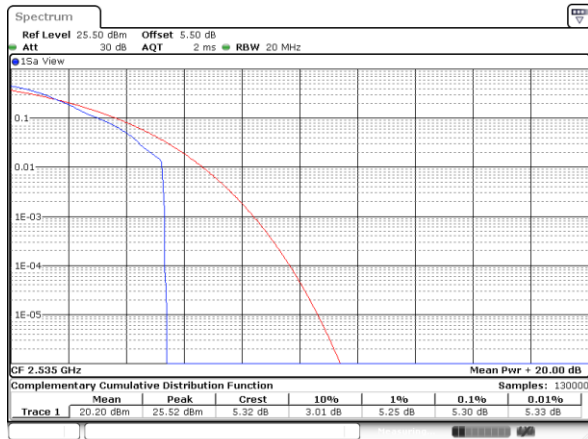
Date: 7 SEP 2018 16:04:44

Lowest Channel / Full RB



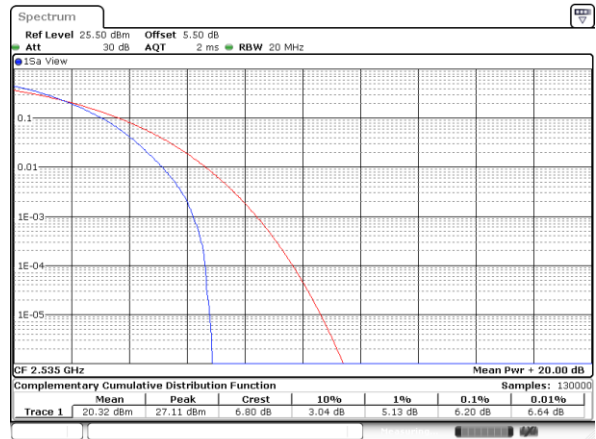
Date: 7 SEP 2018 16:05:05

Middle Channel / 1RB



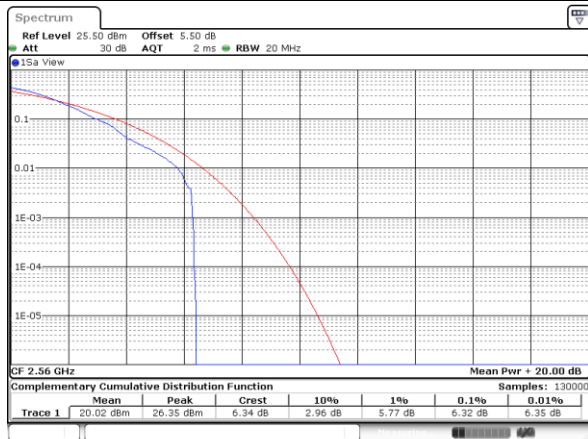
Date: 7 SEP 2018 16:05:34

Middle Channel / Full RB



Date: 7 SEP 2018 16:05:20

Highest Channel / 1RB



Date: 7 SEP 2018 16:05:52

Highest Channel / Full RB



Date: 7 SEP 2018 16:06:07

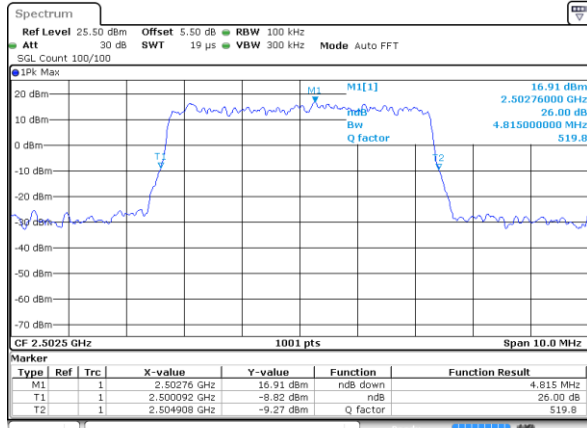
**26dB Bandwidth**

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	-	-	-	-	4.815	4.875	9.89	9.77	14.266	14.386	20.18	20.3
Middle CH	-	-	-	-	4.875	4.915	9.79	9.91	14.356	14.685	20.18	20.02
Highest CH	-	-	-	-	4.875	4.895	9.69	9.71	14.386	14.296	20.18	20.22
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.					64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.975		9.99		14.296		20.18	
Middle CH	-	-	-	-	4.955		9.67		14.296		20.38	
Highest CH	-	-	-	-	4.865		9.73		14.386		20.18	



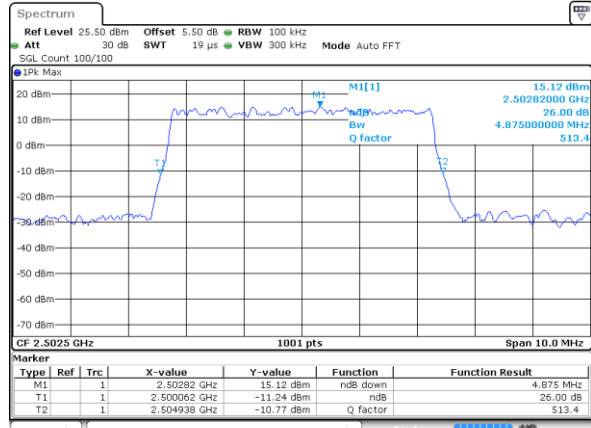
LTE Band 7

Lowest Channel / 5MHz / QPSK



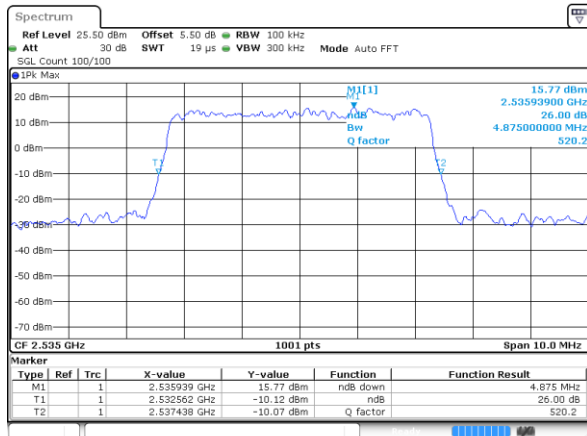
Date: 7 SEP 2018 14:09:36

Lowest Channel / 5MHz / 16QAM



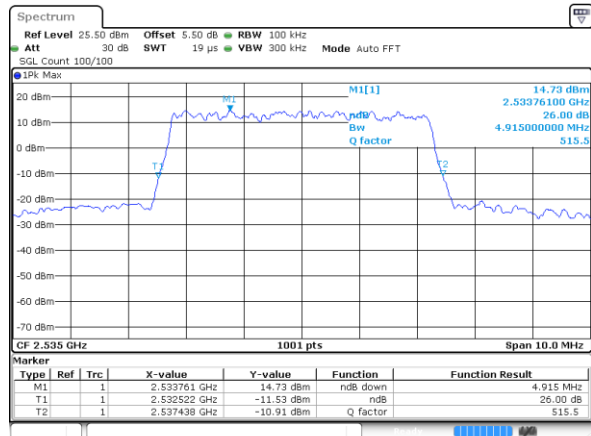
Date: 7 SEP 2018 14:09:57

Middle Channel / 5MHz / QPSK



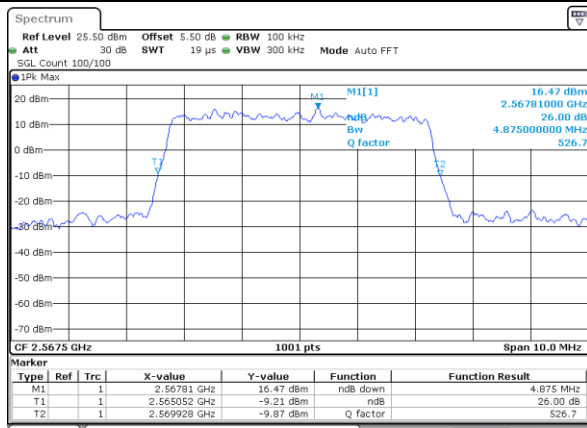
Date: 7 SEP 2018 14:18:55

Middle Channel / 5MHz / 16QAM



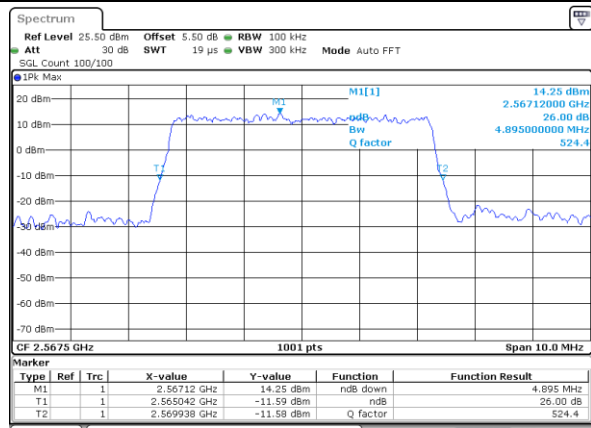
Date: 7 SEP 2018 14:18:34

Highest Channel / 5MHz / QPSK



Date: 7 SEP 2018 14:19:16

Highest Channel / 5MHz / 16QAM

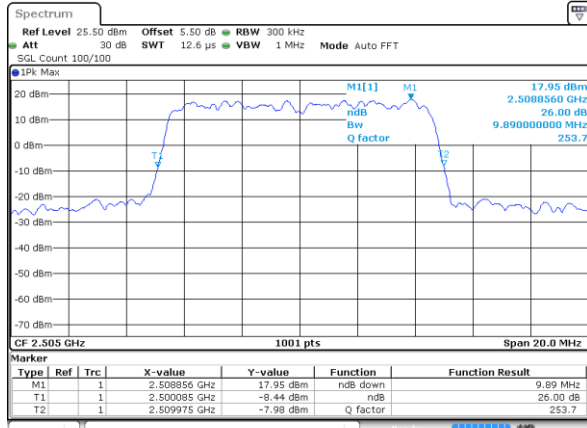


Date: 7 SEP 2018 14:19:38



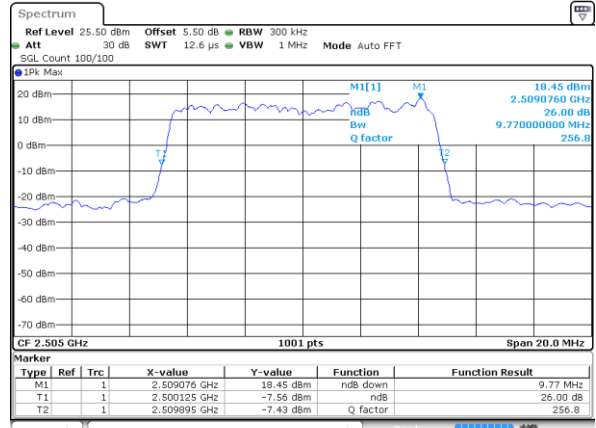
LTE Band 7

Lowest Channel / 10MHz / QPSK



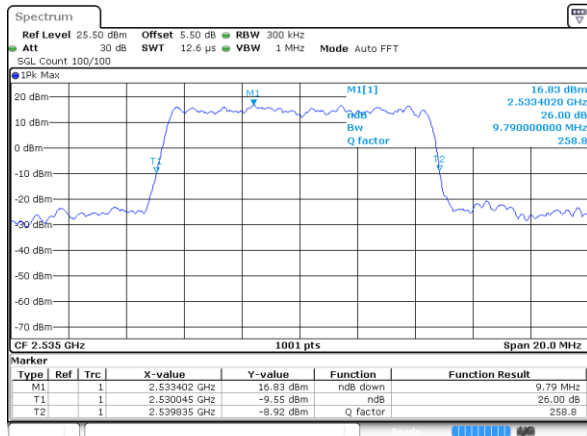
Date: 7 SEP 2018 14:26:23

Lowest Channel / 10MHz / 16QAM



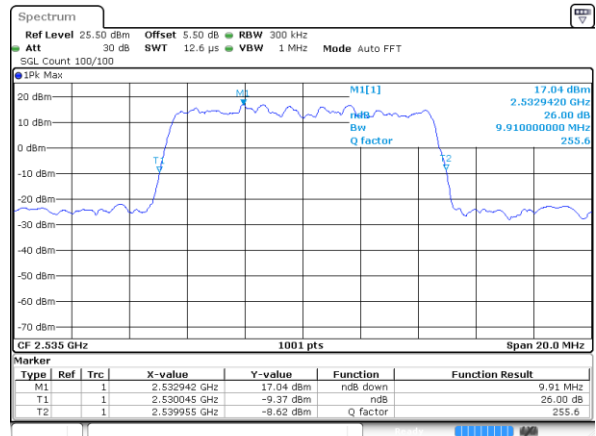
Date: 7 SEP 2018 14:26:44

Middle Channel / 10MHz / QPSK



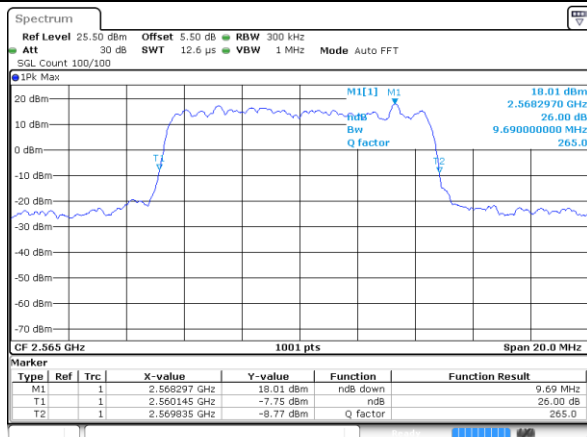
Date: 7 SEP 2018 14:35:43

Middle Channel / 10MHz / 16QAM



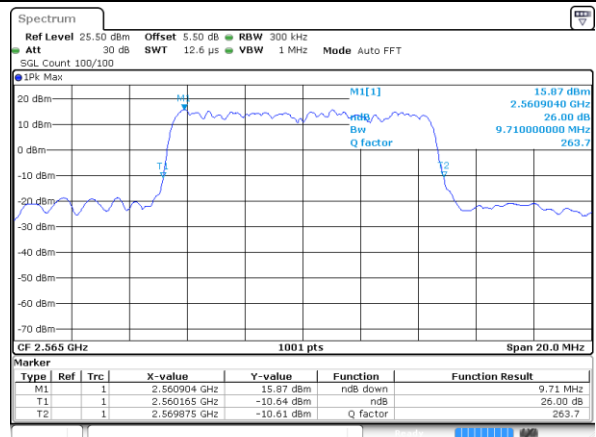
Date: 7 SEP 2018 14:35:21

Highest Channel / 10MHz / QPSK



Date: 7 SEP 2018 14:36:04

Highest Channel / 10MHz / 16QAM

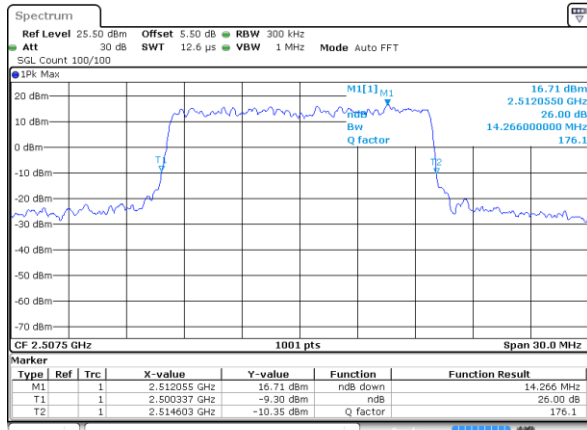


Date: 7 SEP 2018 14:36:25



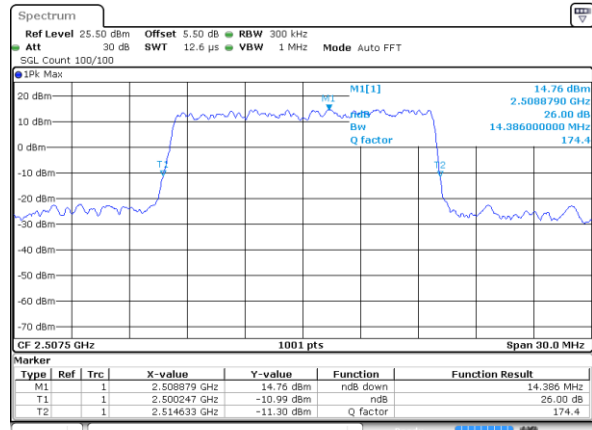
LTE Band 7

Lowest Channel / 15MHz / QPSK



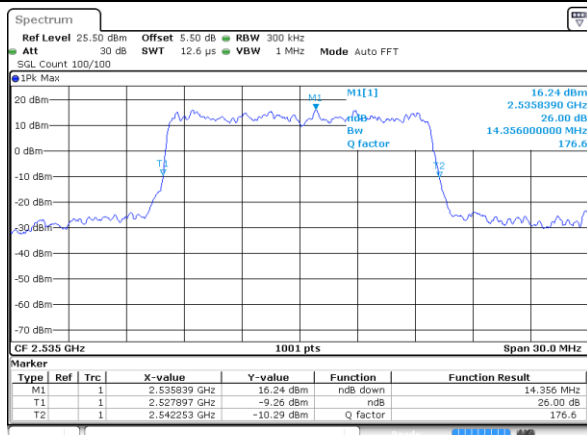
Date: 7 SEP 2018 14:43:10

Lowest Channel / 15MHz / 16QAM



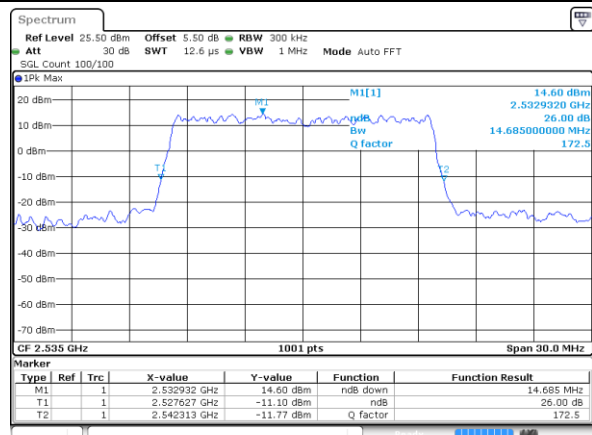
Date: 7 SEP 2018 14:43:31

Middle Channel / 15MHz / QPSK



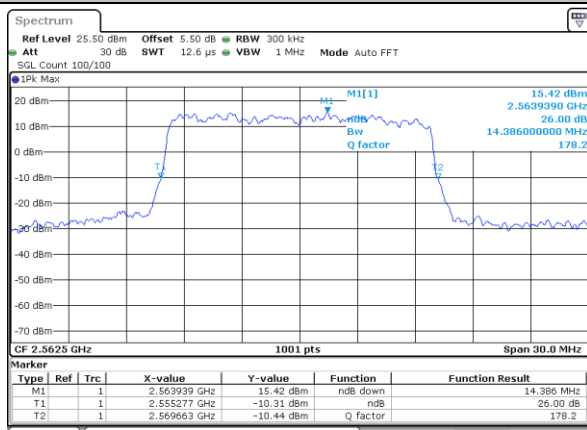
Date: 7 SEP 2018 14:52:31

Middle Channel / 15MHz / 16QAM



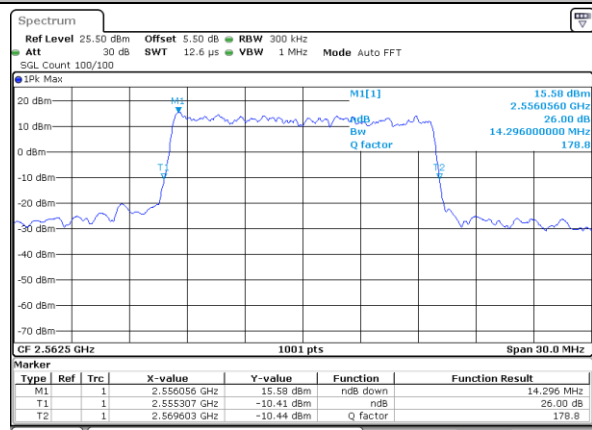
Date: 7 SEP 2018 14:52:09

Highest Channel / 15MHz / QPSK



Date: 7 SEP 2018 14:52:52

Highest Channel / 15MHz / 16QAM

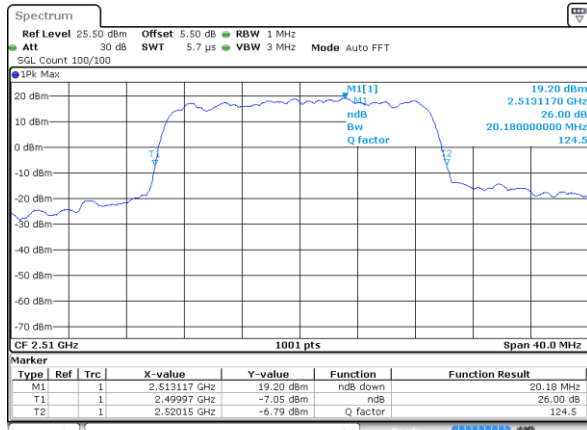


Date: 7 SEP 2018 14:53:13



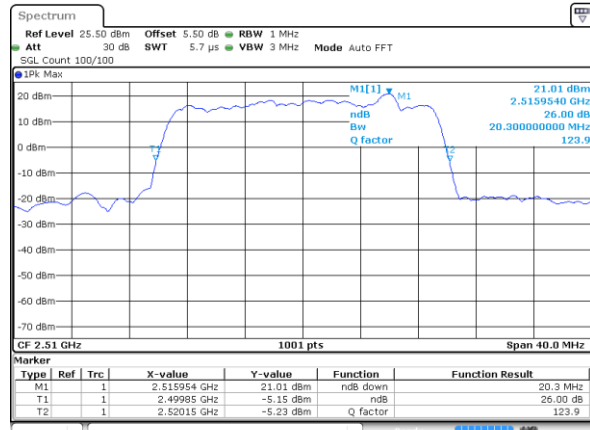
LTE Band 7

Lowest Channel / 20MHz / QPSK



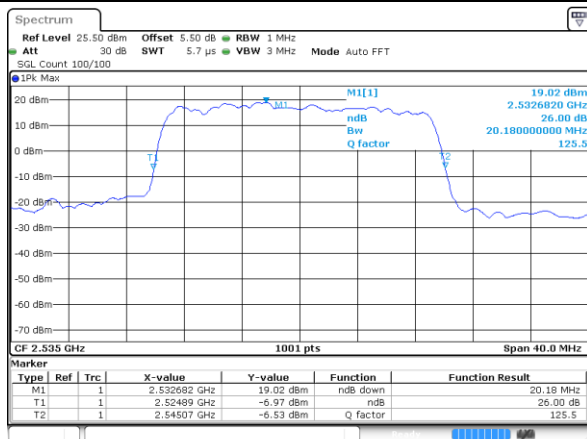
Date: 7 SEP 2018 14:59:59

Lowest Channel / 20MHz / 16QAM



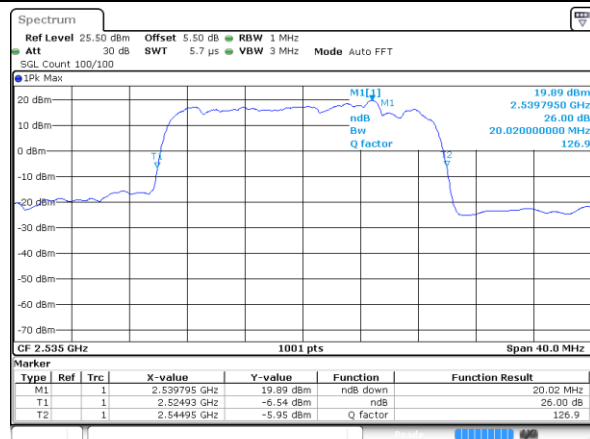
Date: 7 SEP 2018 15:00:21

Middle Channel / 20MHz / QPSK



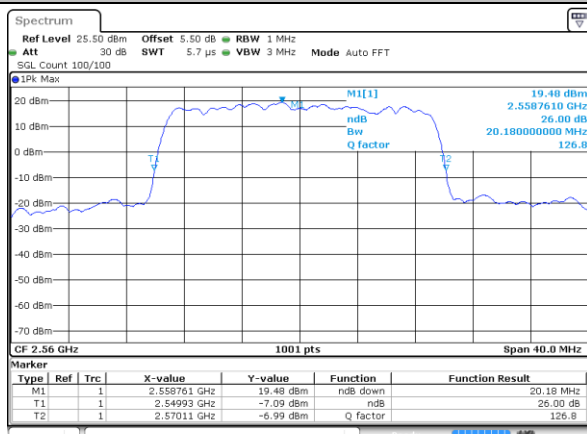
Date: 7 SEP 2018 15:09:19

Middle Channel / 20MHz / 16QAM



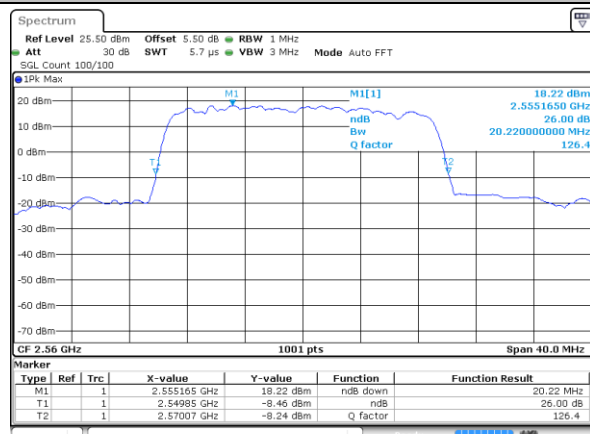
Date: 7 SEP 2018 15:08:58

Highest Channel / 20MHz / QPSK



Date: 7 SEP 2018 15:09:40

Highest Channel / 20MHz / 16QAM

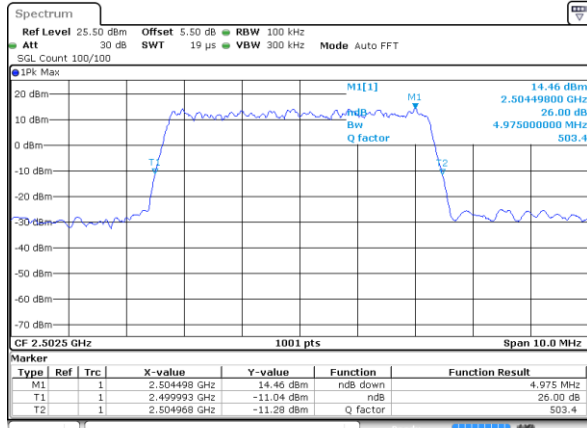


Date: 7 SEP 2018 15:10:02



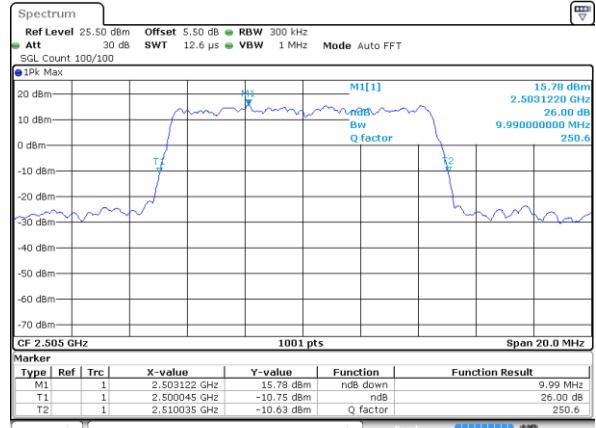
LTE Band 7

Lowest Channel / 5MHz / 64QAM



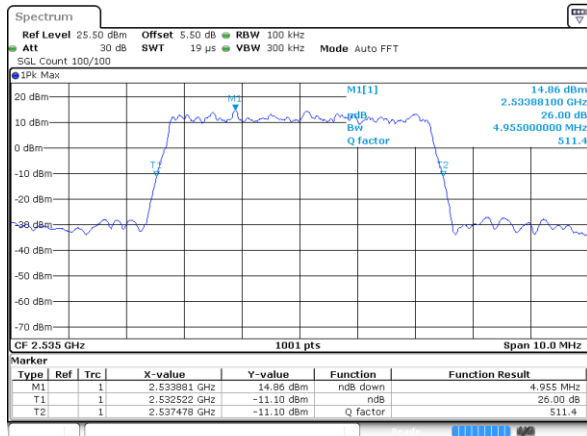
Date: 7.SEP.2018 15:29:46

Lowest Channel / 10MHz / 64QAM



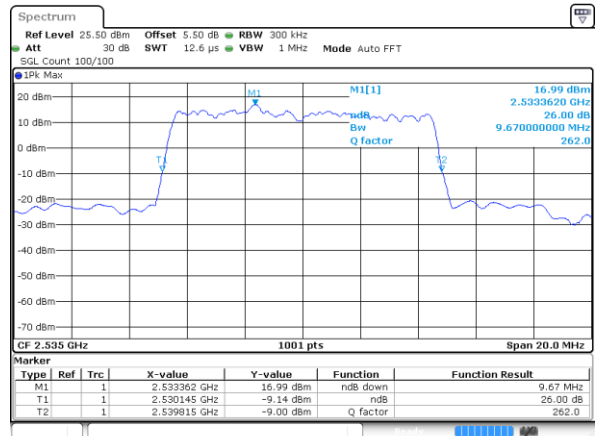
Date: 7.SEP.2018 15:30:50

Middle Channel / 5MHz / 64QAM



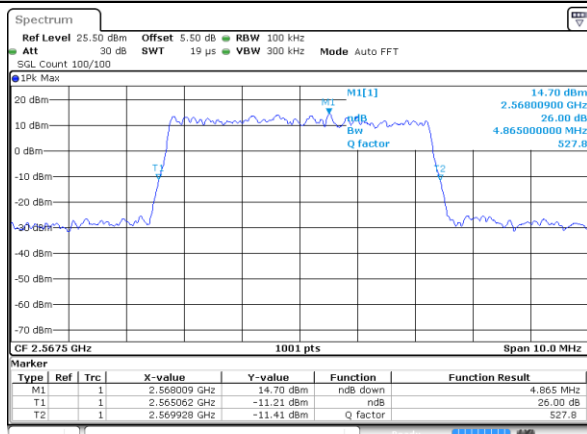
Date: 7.SEP.2018 15:30:07

Middle Channel / 10MHz / 64QAM



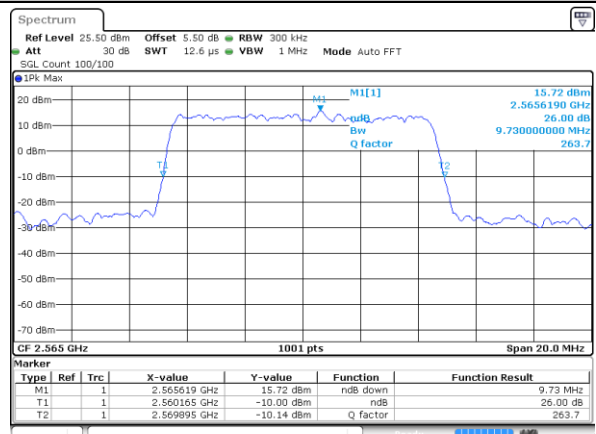
Date: 7.SEP.2018 15:31:11

Highest Channel / 5MHz / 64QAM



Date: 7.SEP.2018 15:30:29

Highest Channel / 10MHz / 64QAM

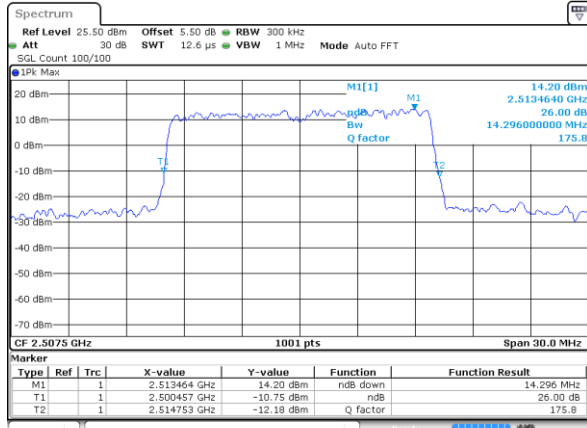


Date: 7.SEP.2018 15:31:33



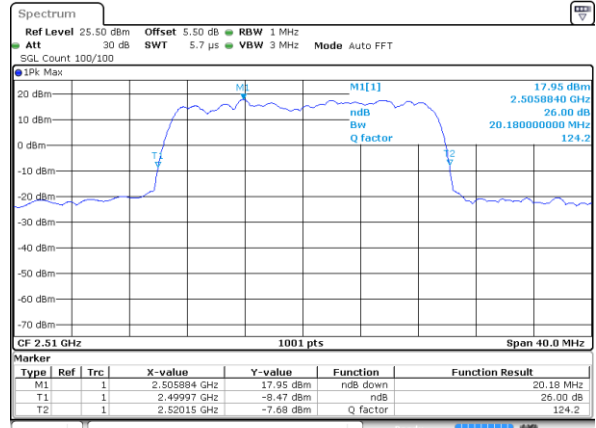
LTE Band 7

Lowest Channel / 15MHz / 64QAM



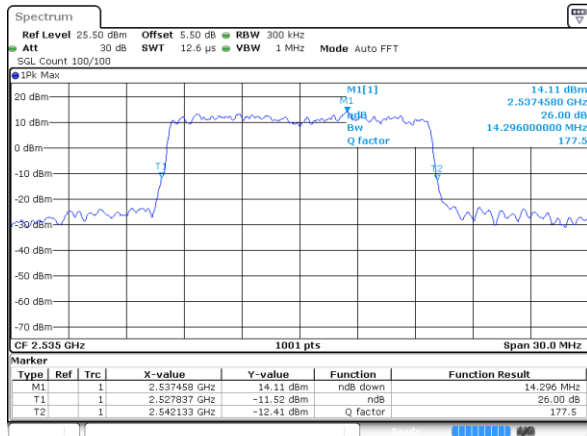
Date: 7 SEP 2018 15:31:54

Lowest Channel / 20MHz / 64QAM



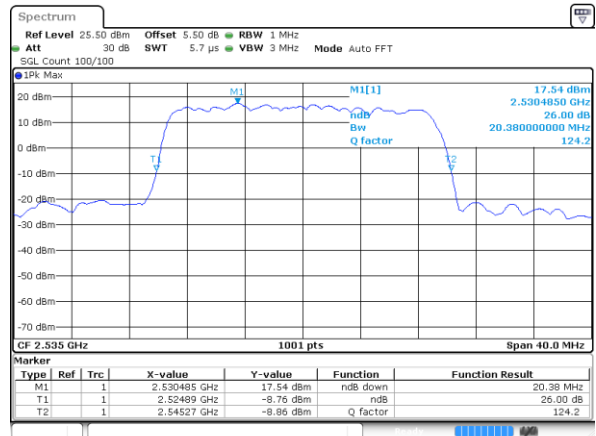
Date: 7 SEP 2018 15:32:58

Middle Channel / 15MHz / 64QAM



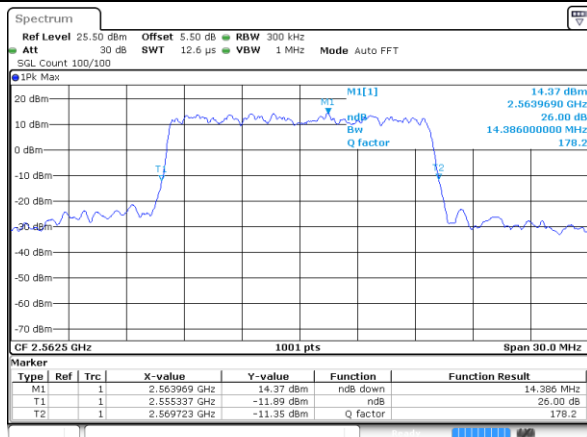
Date: 7 SEP 2018 15:32:15

Middle Channel / 20MHz / 64QAM



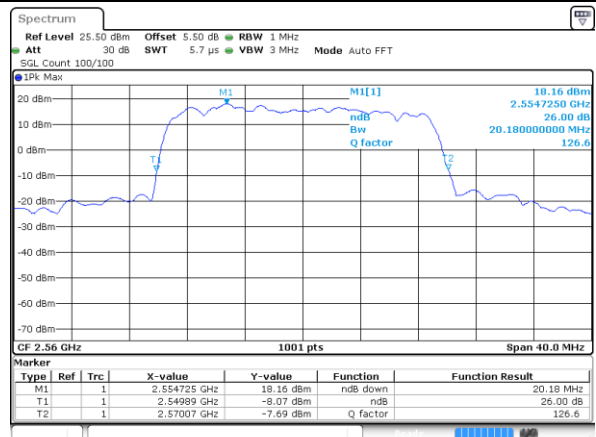
Date: 7 SEP 2018 15:33:19

Highest Channel / 15MHz / 64QAM



Date: 7 SEP 2018 15:32:37

Highest Channel / 20MHz / 64QAM



Date: 7 SEP 2018 15:33:41

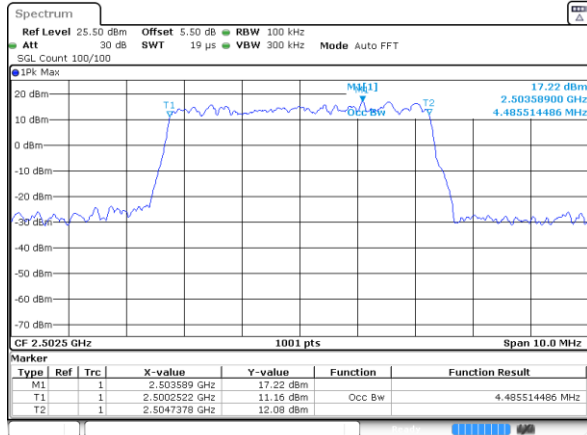
**Occupied Bandwidth**

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	-	-	-	-	4.49	4.48	9.05	9.01	13.43	13.49	18.3	18.42
Middle CH	-	-	-	-	4.49	4.49	8.97	9.01	13.43	13.49	18.26	18.38
Highest CH	-	-	-	-	4.49	4.49	9.03	9.01	13.4	13.43	18.34	18.18
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.					64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49		9.01		13.43		18.26	
Middle CH	-	-	-	-	4.5		9.05		13.46		18.5	
Highest CH	-	-	-	-	4.52		9.01		13.43		18.18	



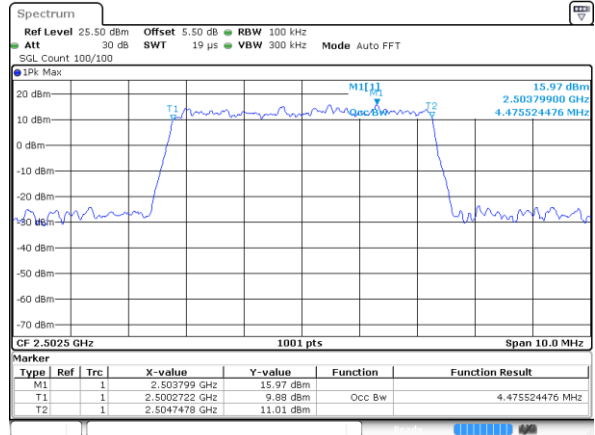
LTE Band 7

Lowest Channel / 5MHz / QPSK



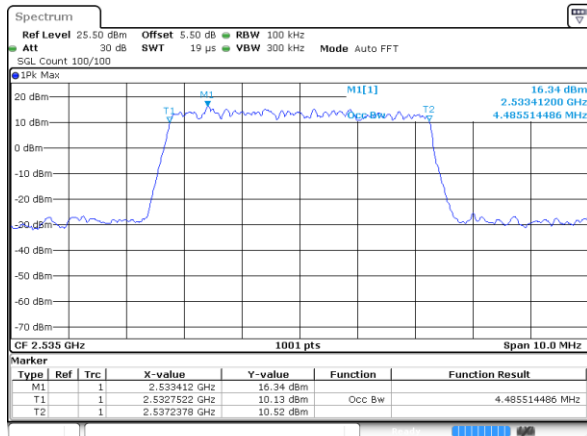
Date: 7 SEP 2018 14:09:25

Lowest Channel / 5MHz / 16QAM



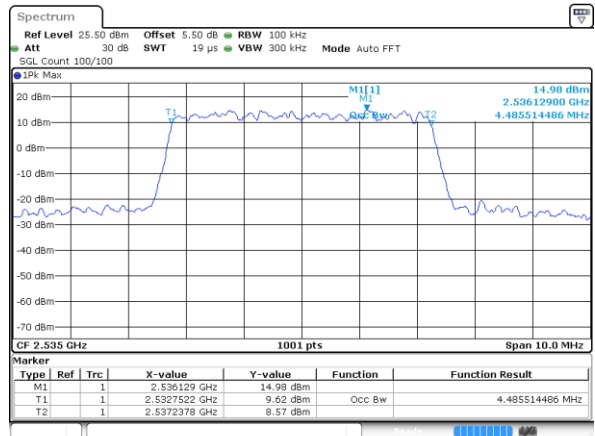
Date: 7 SEP 2018 14:09:46

Middle Channel / 5MHz / QPSK



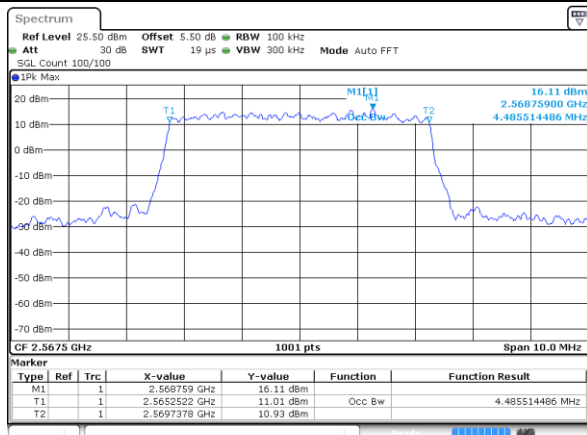
Date: 7 SEP 2018 14:18:44

Middle Channel / 5MHz / 16QAM



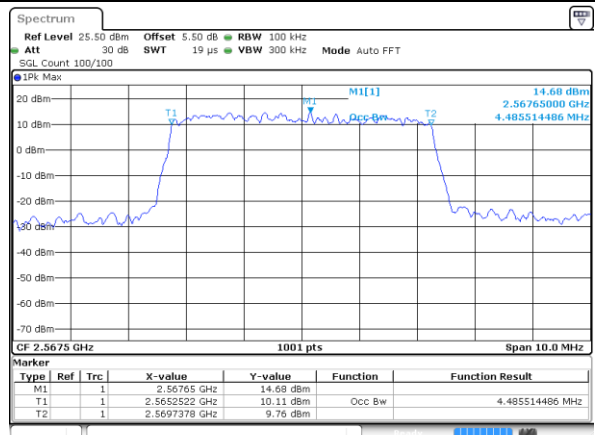
Date: 7 SEP 2018 14:18:23

Highest Channel / 5MHz / QPSK



Date: 7 SEP 2018 14:19:06

Highest Channel / 5MHz / 16QAM

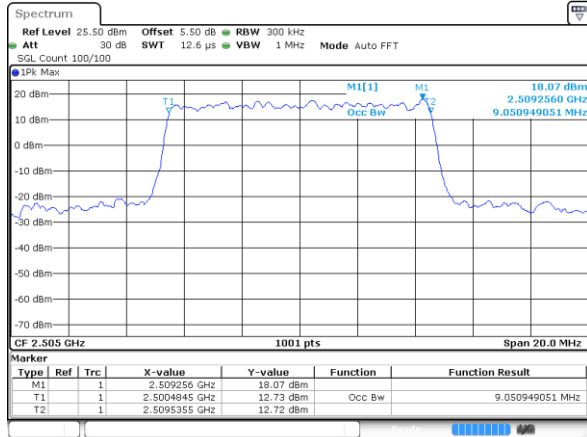


Date: 7 SEP 2018 14:19:27

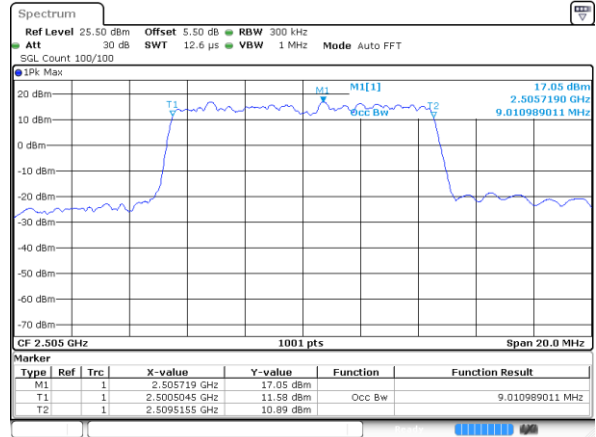


LTE Band 7

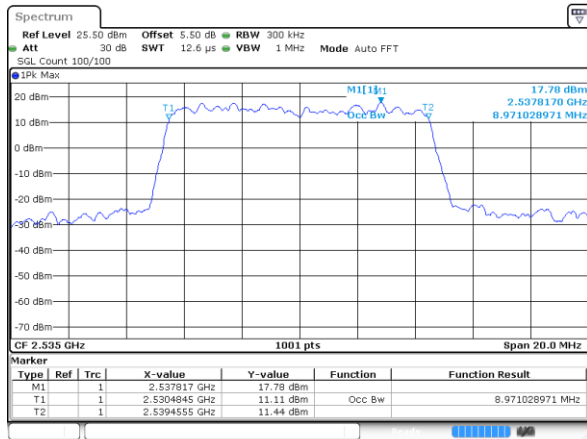
Lowest Channel / 10MHz / QPSK



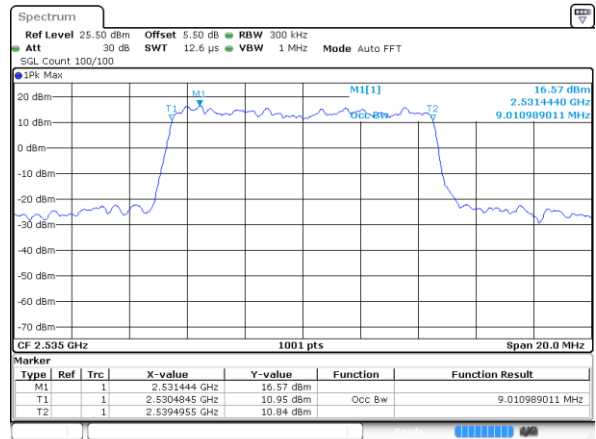
Lowest Channel / 10MHz / 16QAM



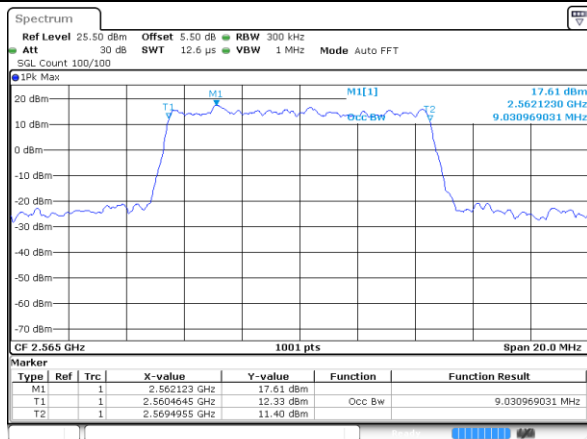
Middle Channel / 10MHz / QPSK



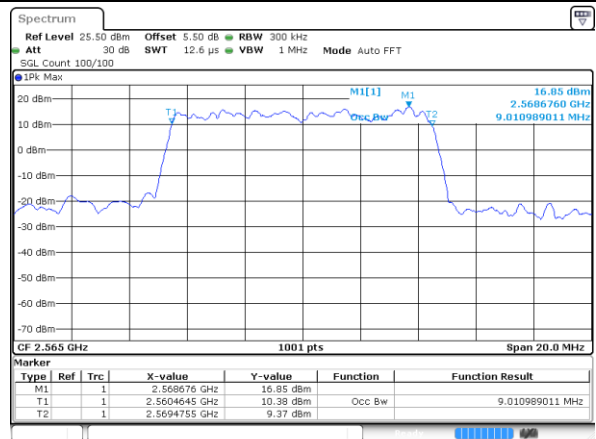
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



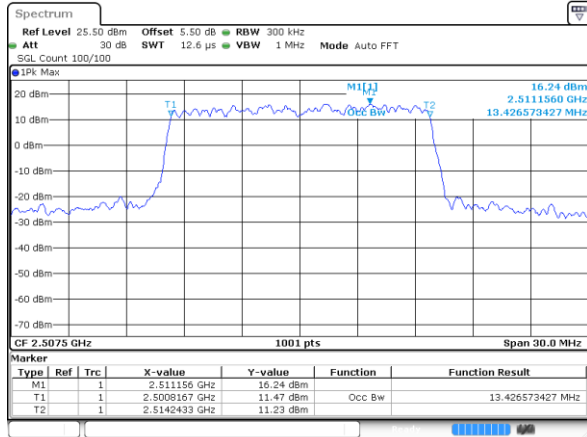
Highest Channel / 10MHz / 16QAM



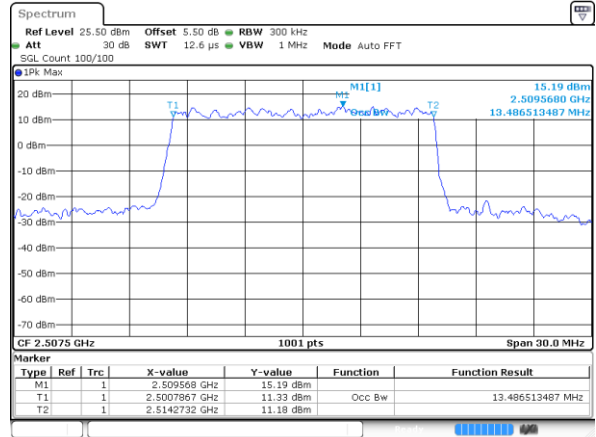


LTE Band 7

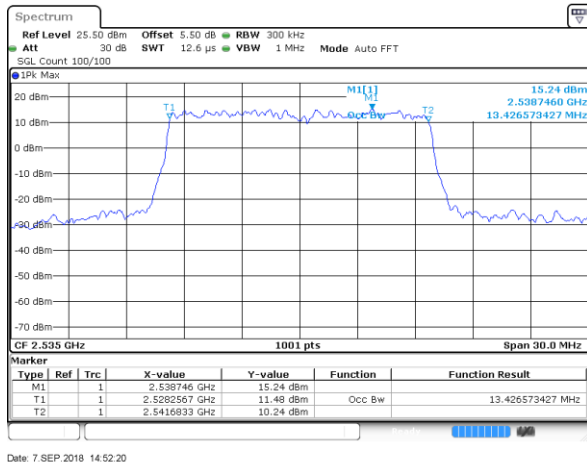
Lowest Channel / 15MHz / QPSK



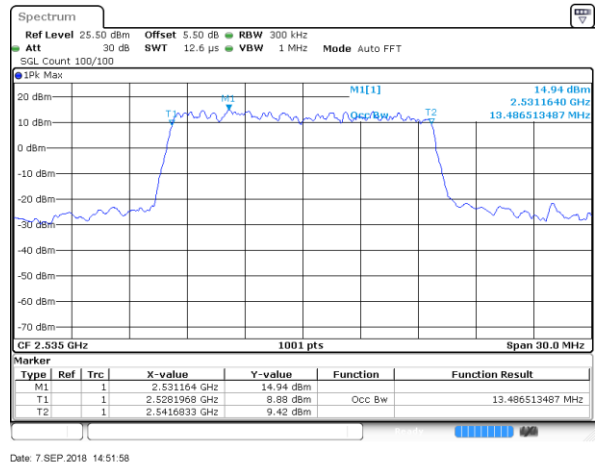
Lowest Channel / 15MHz / 16QAM



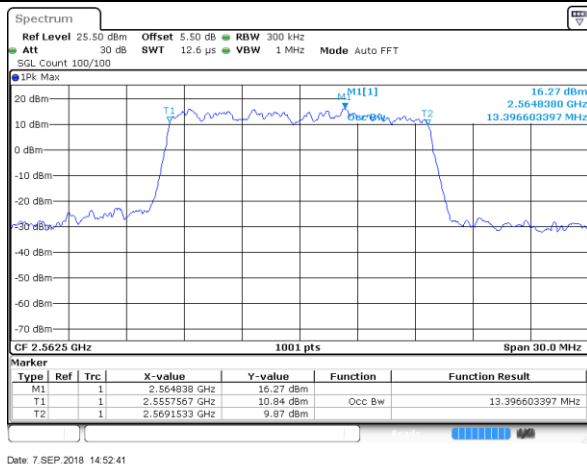
Middle Channel / 15MHz / QPSK



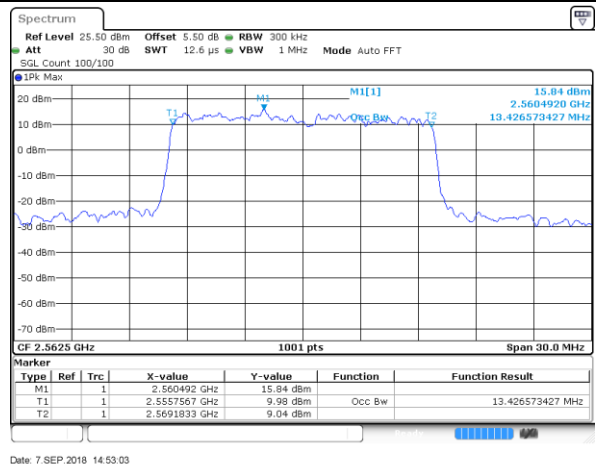
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



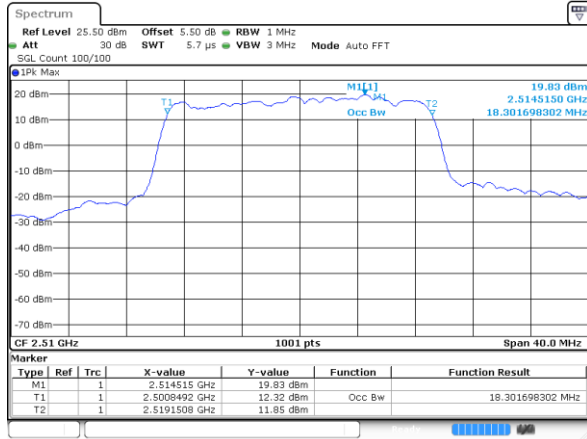
Highest Channel / 15MHz / 16QAM





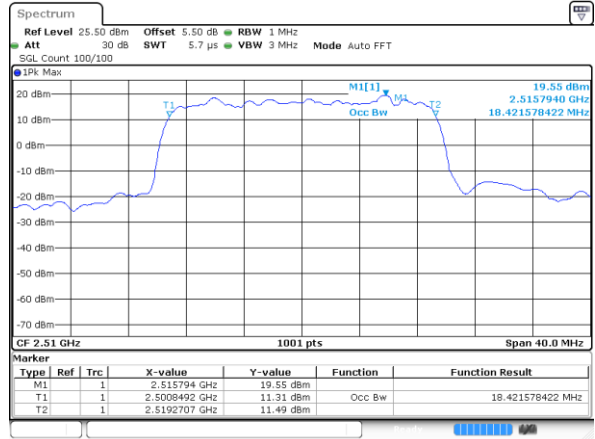
LTE Band 7

Lowest Channel / 20MHz / QPSK



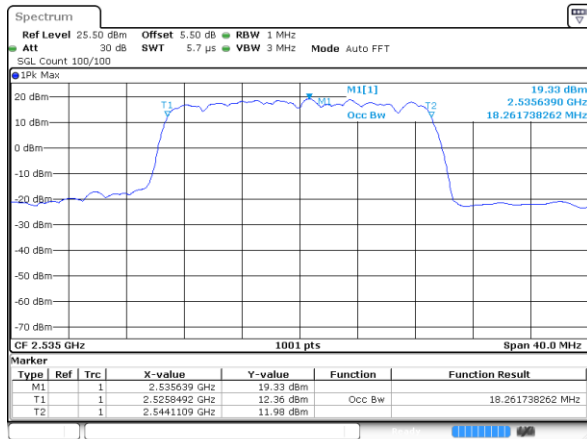
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Lowest Channel / 20MHz / 16QAM



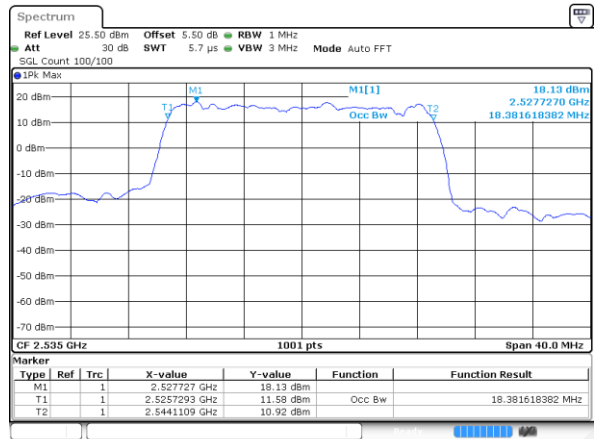
Date: 7 SEP 2018 15:00:10

Middle Channel / 20MHz / QPSK



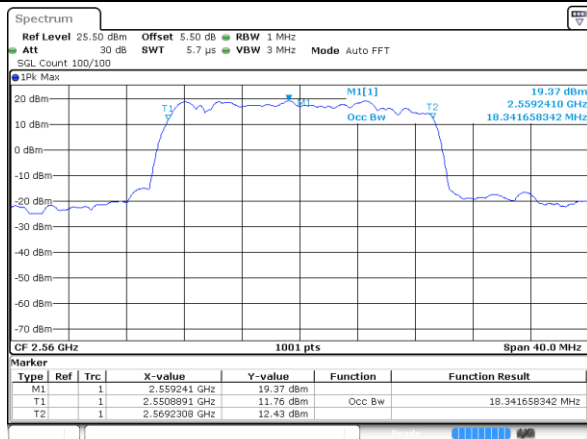
Date: 7 SEP 2018 15:09:08

Middle Channel / 20MHz / 16QAM



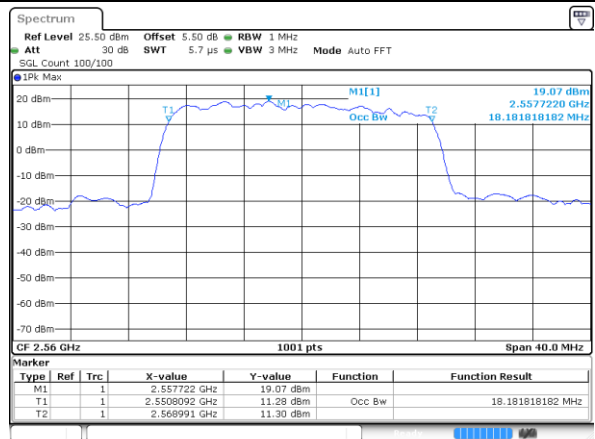
Date: 7 SEP 2018 15:08:47

Highest Channel / 20MHz / QPSK



Date: 7 SEP 2018 15:09:30

Highest Channel / 20MHz / 16QAM

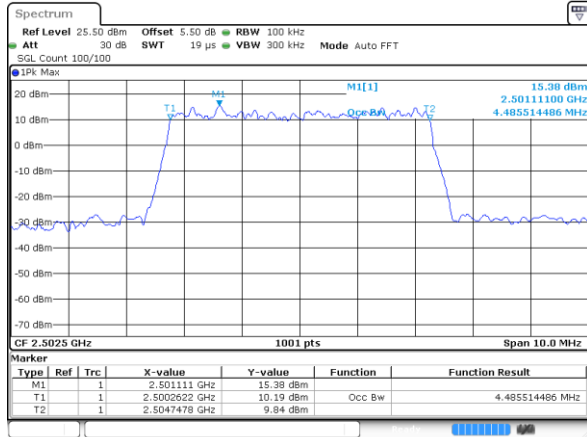


Date: 7 SEP 2018 15:09:51

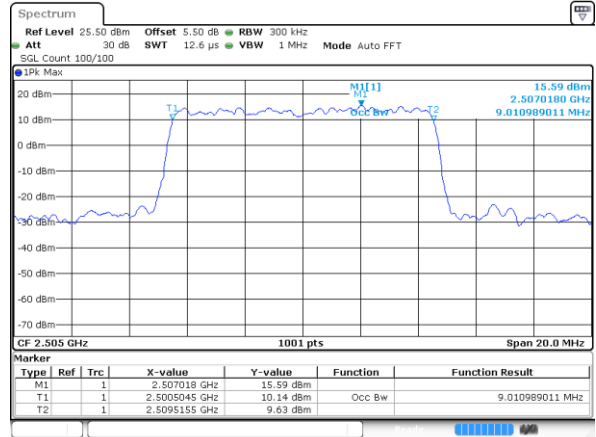


LTE Band 7

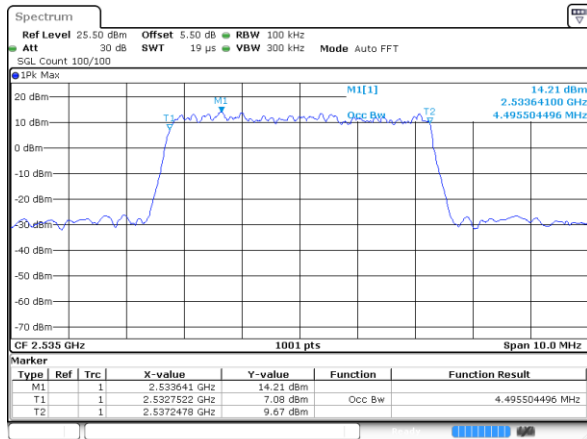
Lowest Channel / 5MHz / 64QAM



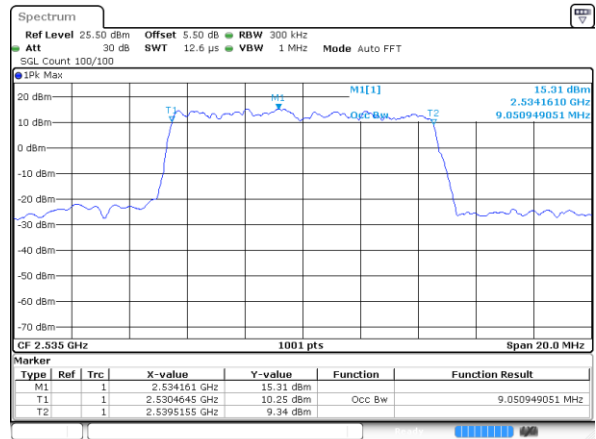
Lowest Channel / 10MHz / 64QAM



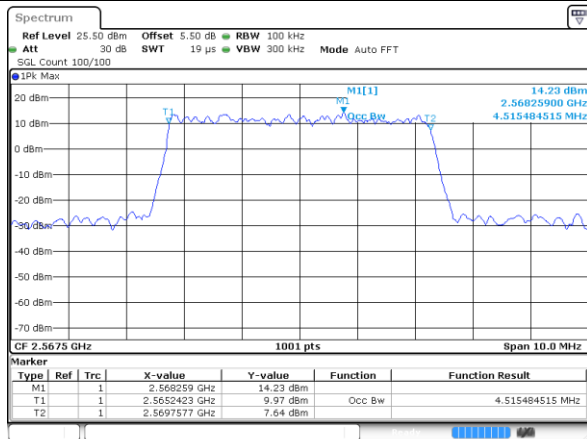
Middle Channel / 5MHz / 64QAM



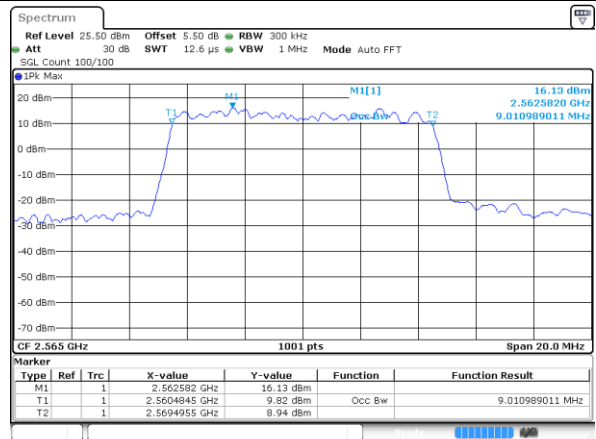
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



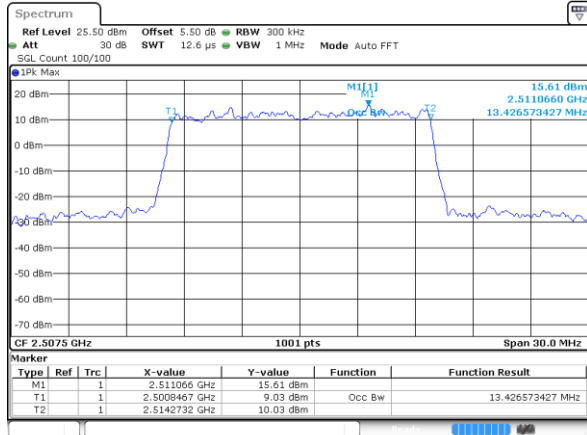
Highest Channel / 10MHz / 64QAM



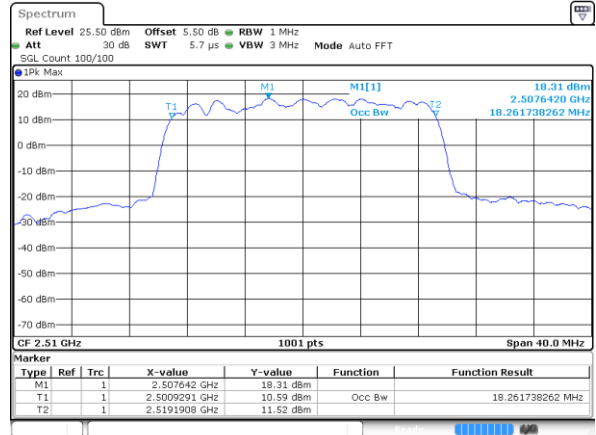


LTE Band 7

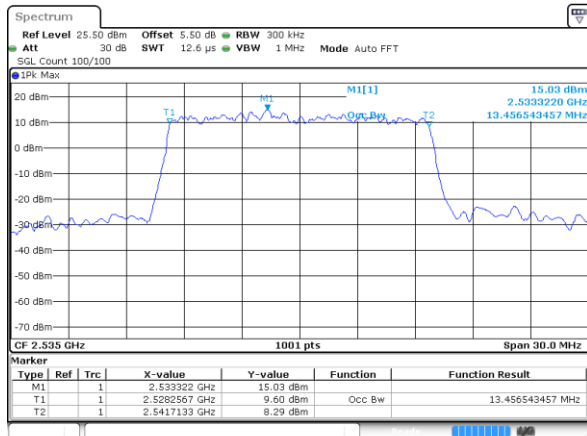
Lowest Channel / 15MHz / 64QAM



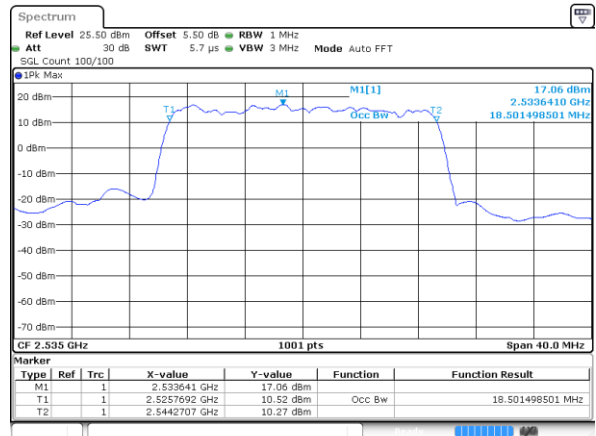
Lowest Channel / 20MHz / 64QAM



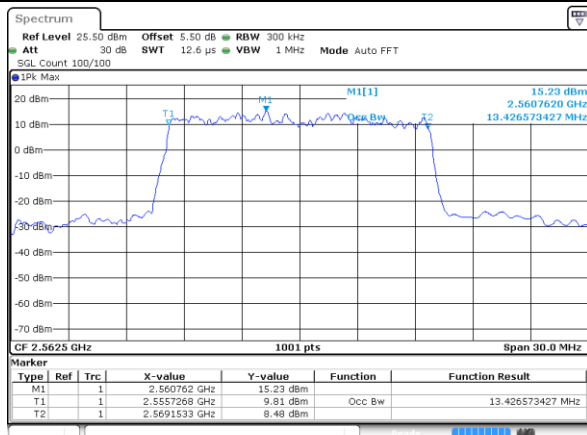
Middle Channel / 15MHz / 64QAM



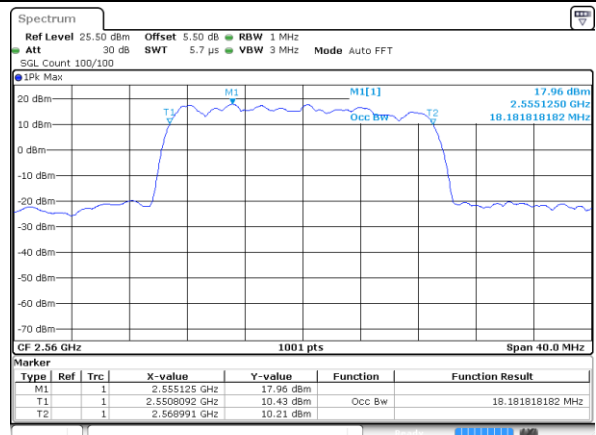
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



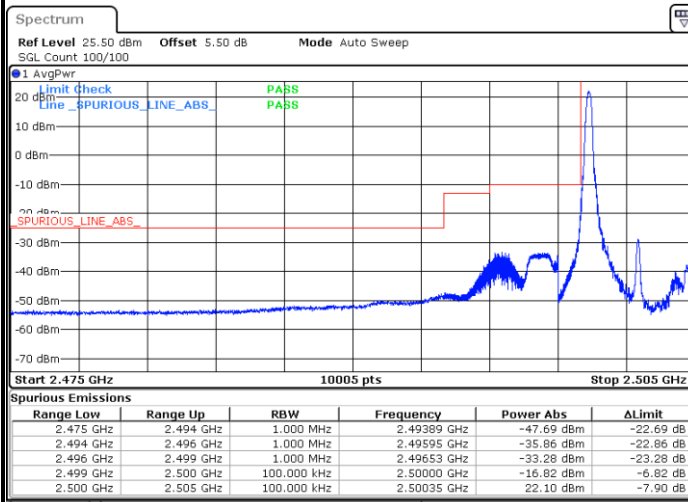


Conducted Band Edge

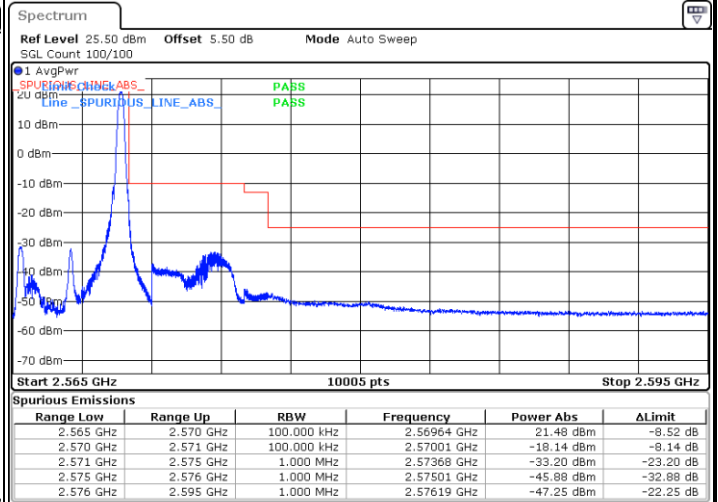


LTE Band 7 / 5MHz / QPSK

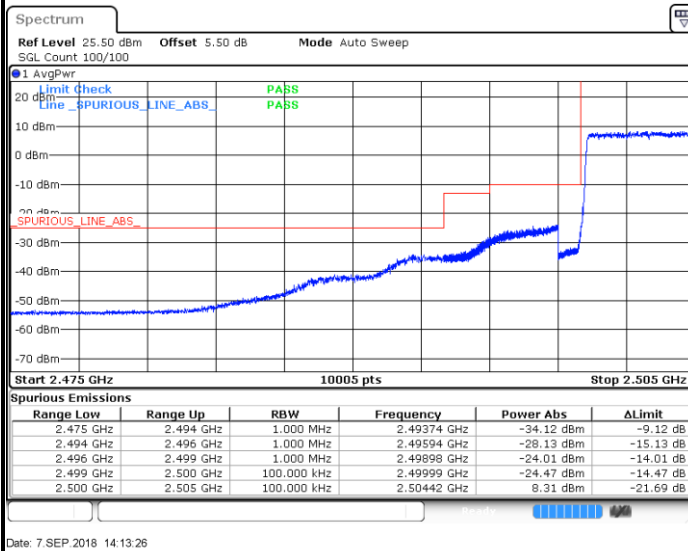
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

