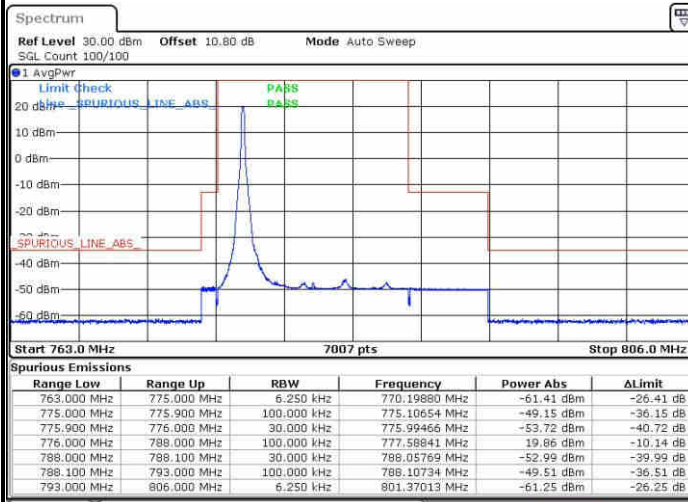


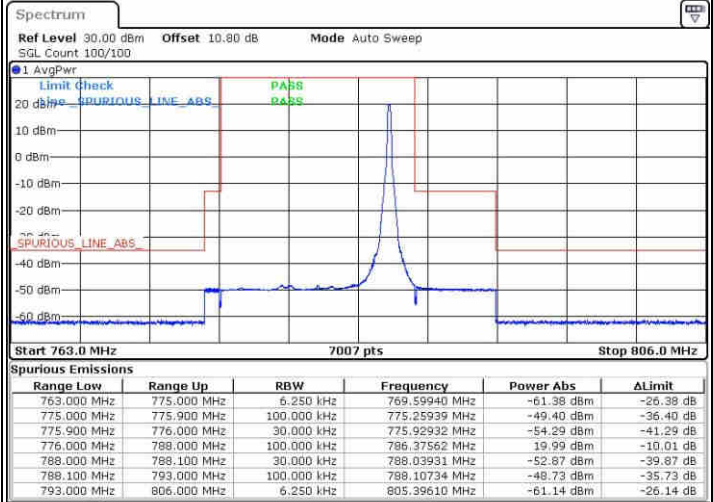


LTE Band 13 / 10MHz / 16QAM

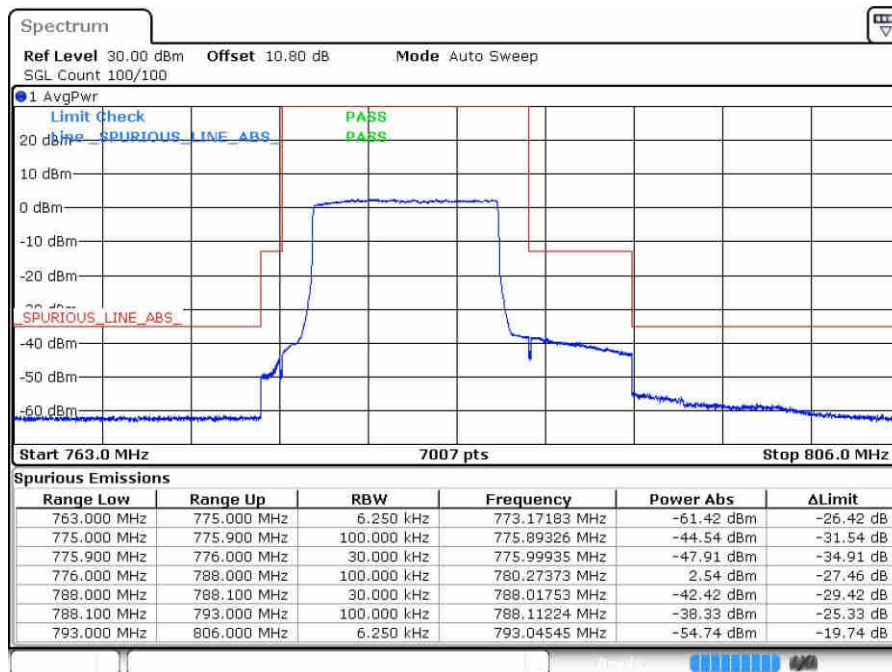
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



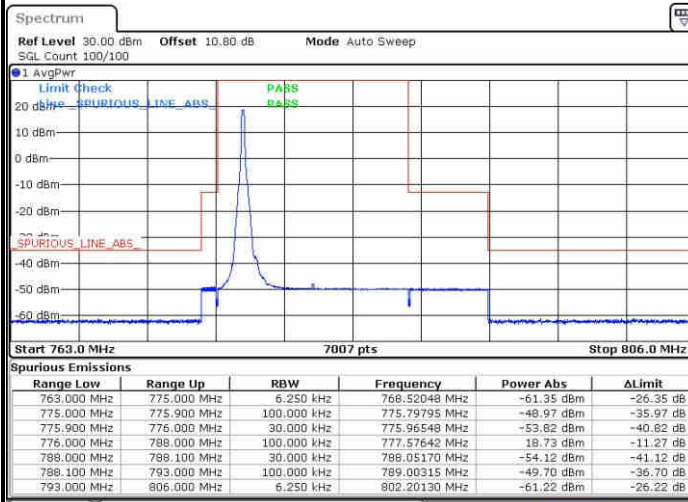
Band Edge / Full RB



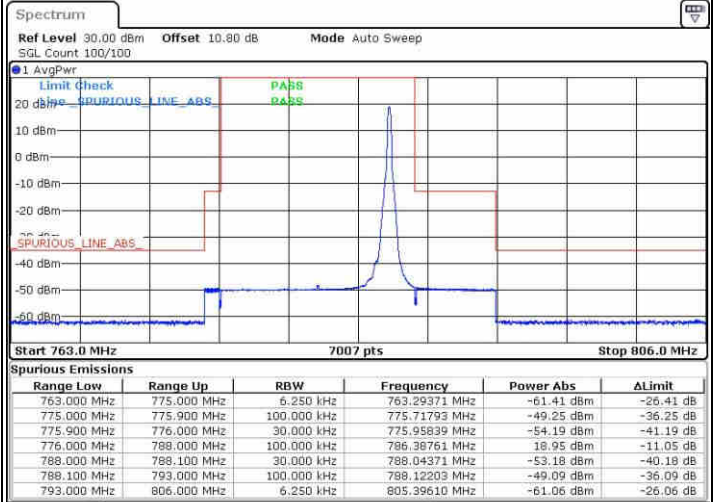


LTE Band 13 / 10MHz / 64QAM

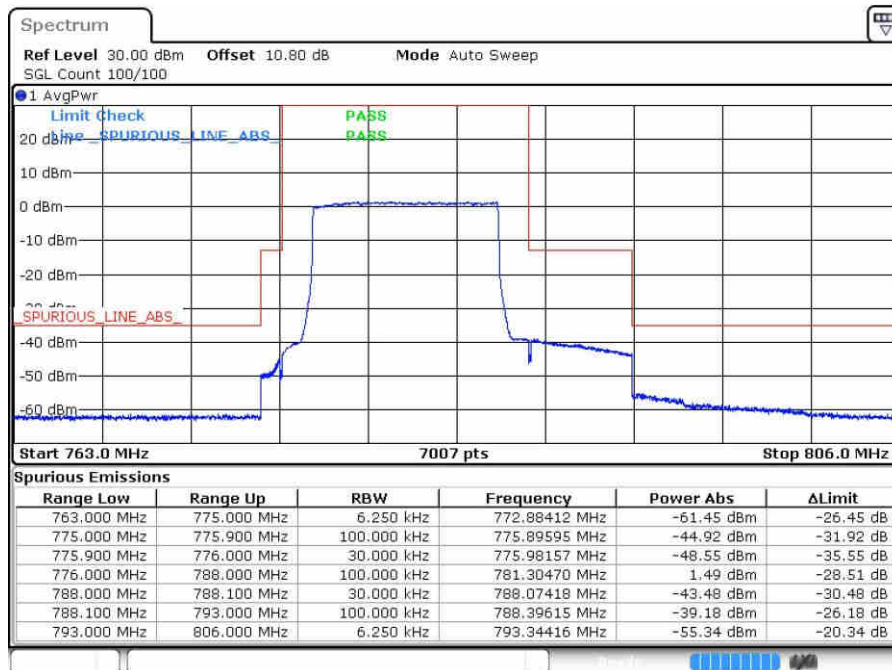
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Band Edge / Full RB

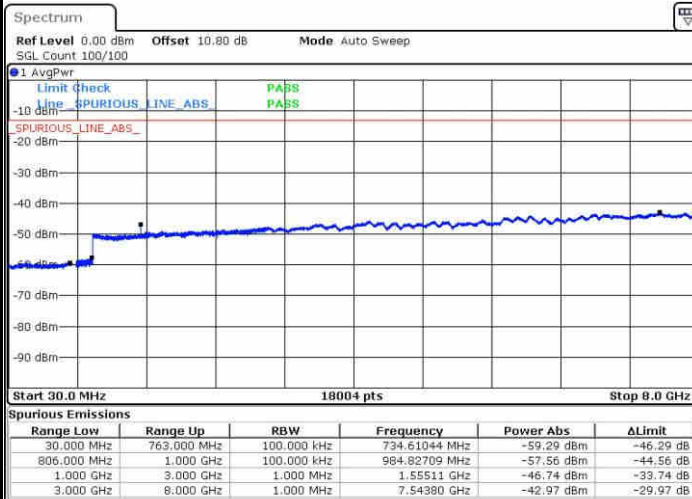




Conducted Spurious Emission

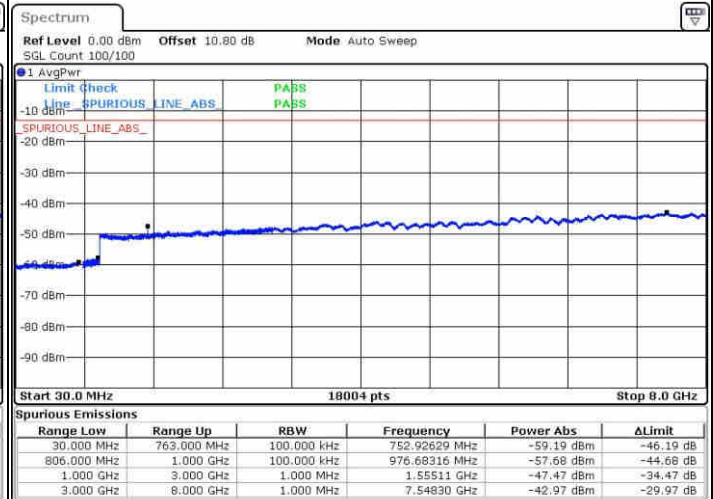
LTE Band 13 / 5MHz

Lowest Channel / QPSK



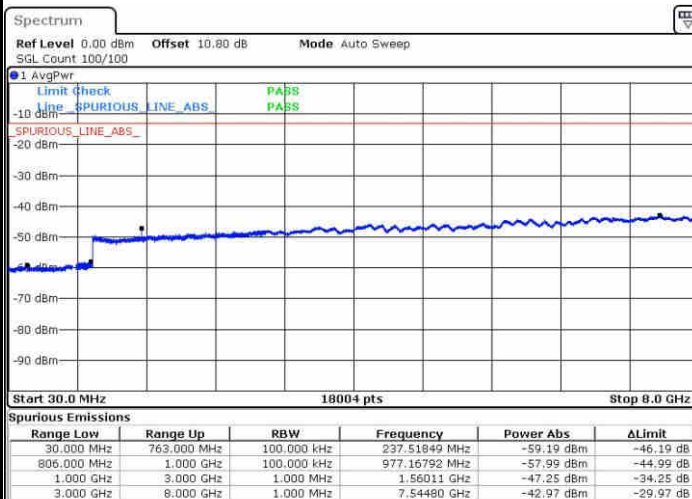
Date: 8 APR 2019 05:07:35

Lowest Channel / 16QAM



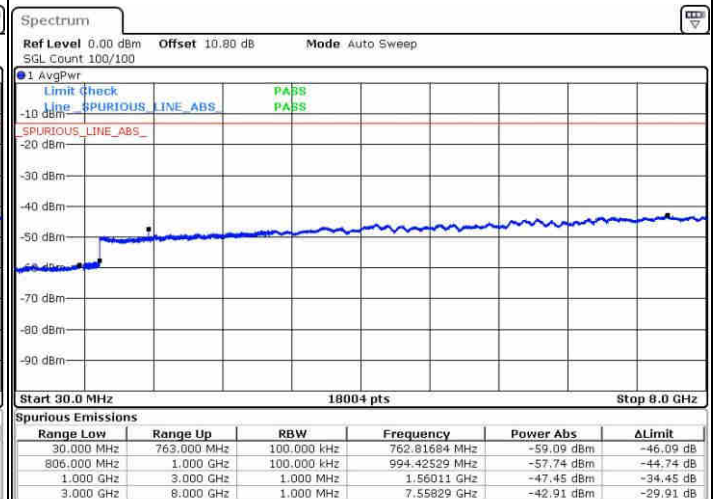
Date: 8 APR 2019 05:08:26

Middle Channel / QPSK



Date: 8 APR 2019 05:10:06

Middle Channel / 16QAM

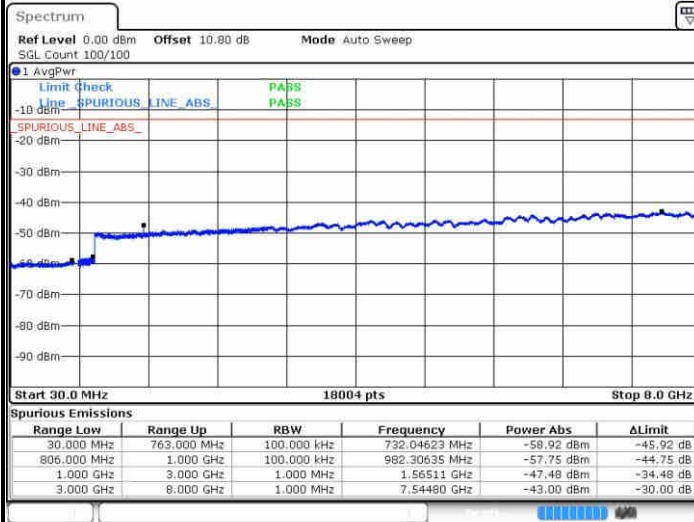


Date: 8 APR 2019 05:09:16



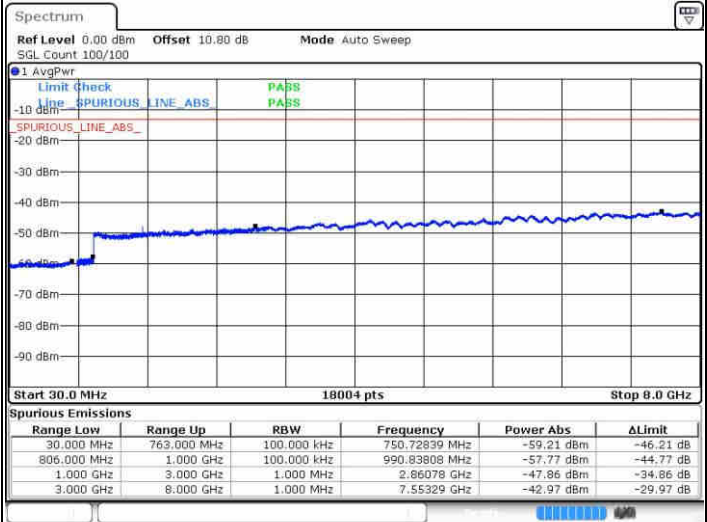
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 8 APR 2019 05:19:17

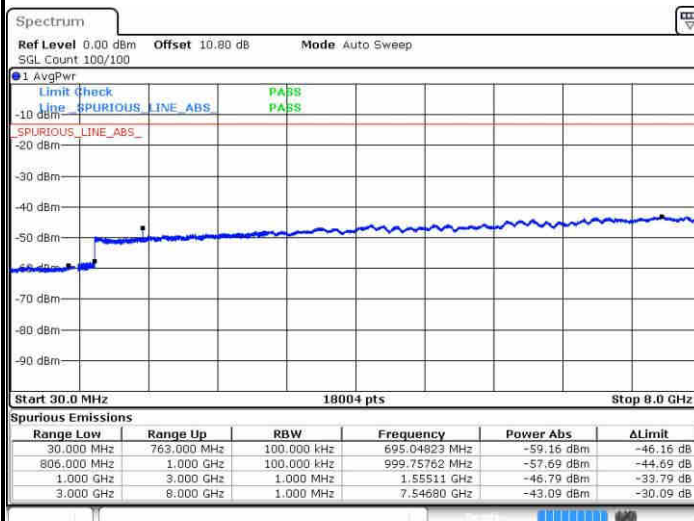
Highest Channel / 16QAM



Date: 8 APR 2019 05:20:08

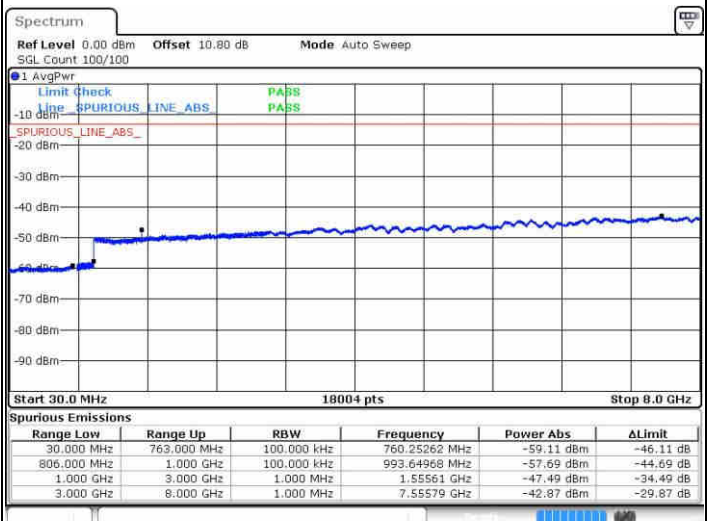
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 8 APR 2019 05:43:09

Middle Channel / 16QAM

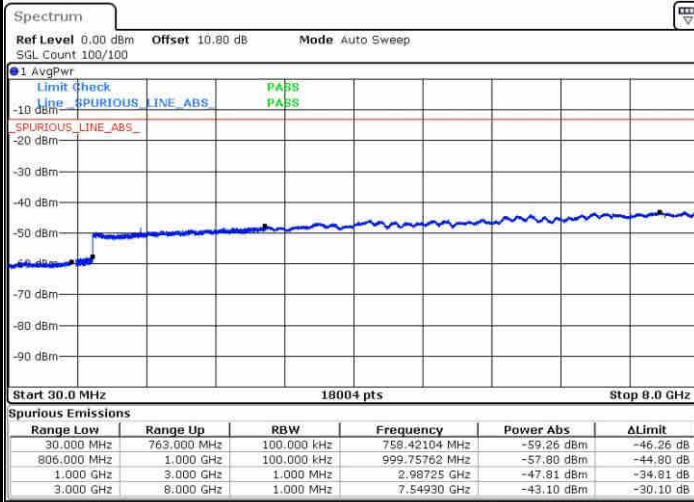


Date: 8 APR 2019 05:42:19



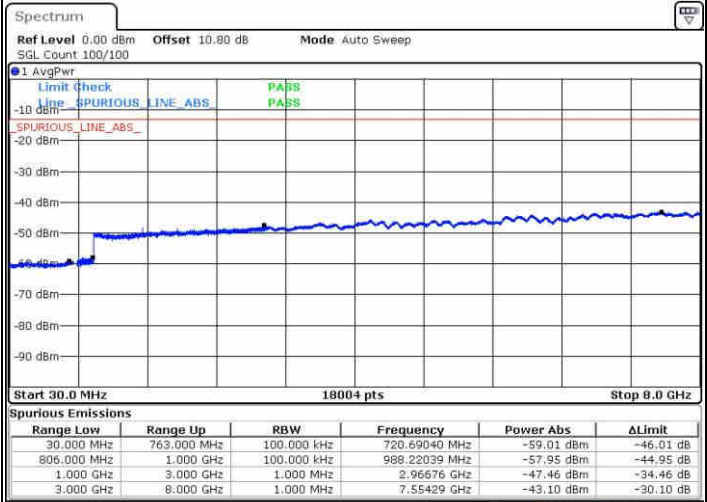
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



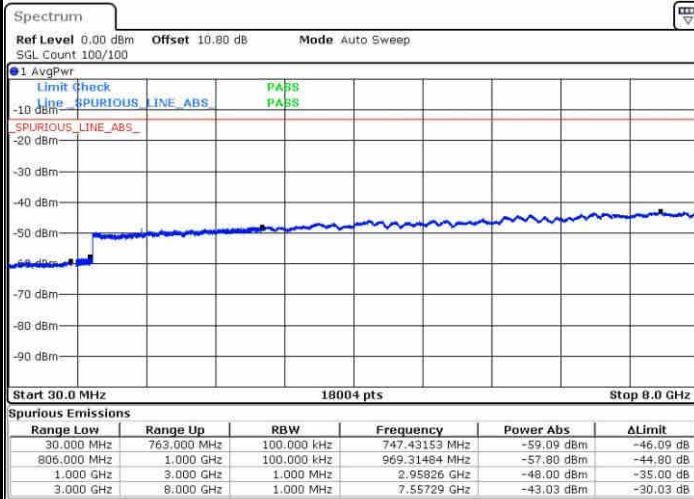
Date: 8 APR 2019 05:24:45

Middle Channel / 64QAM



Date: 8 APR 2019 05:25:36

Highest Channel / 64QAM

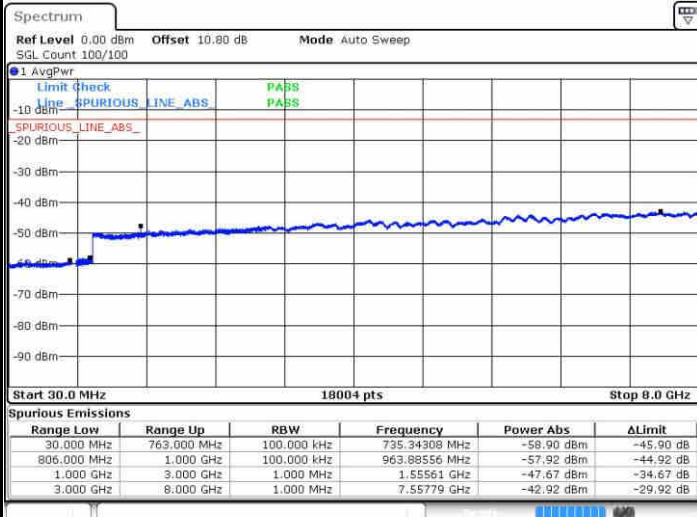


Date: 8 APR 2019 05:30:37



LTE Band 13 / 10MHz

Middle Channel / 64QAM



Date: 8 APR 2019 05:49:25

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0079	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0066	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0072	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.54	4.67	4.17	5.71	PASS
Middle CH	3.42	4.70	3.91	5.80	
Highest CH	3.62	4.99	4.35	6.06	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.33	6.46	-	-	PASS
Middle CH	5.13	6.64	-	-	
Highest CH	5.42	6.70	-	-	

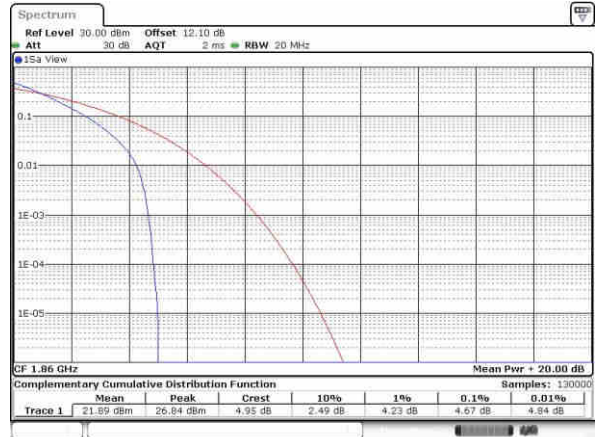


LTE Band 25 / 20MHz / QPSK

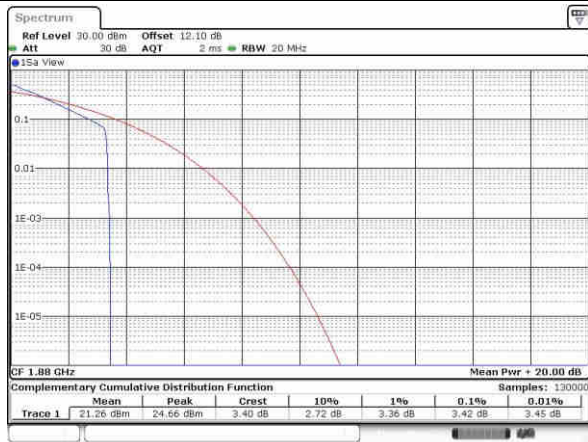
Lowest Channel / 1RB



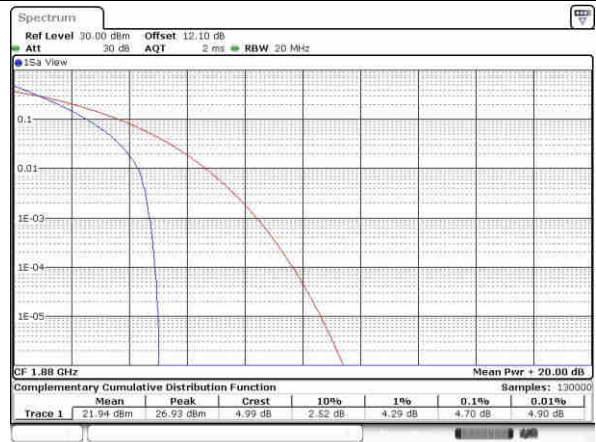
Lowest Channel / Full RB



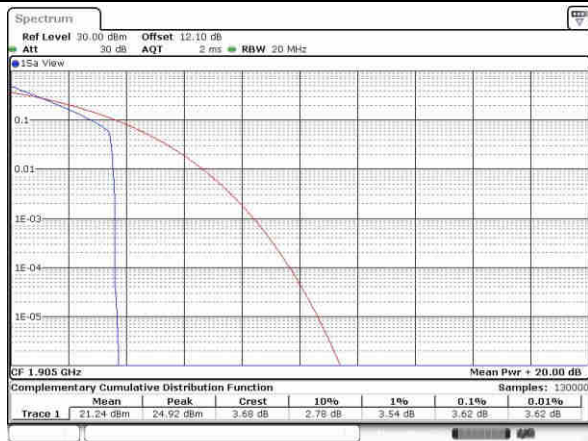
Middle Channel / 1RB



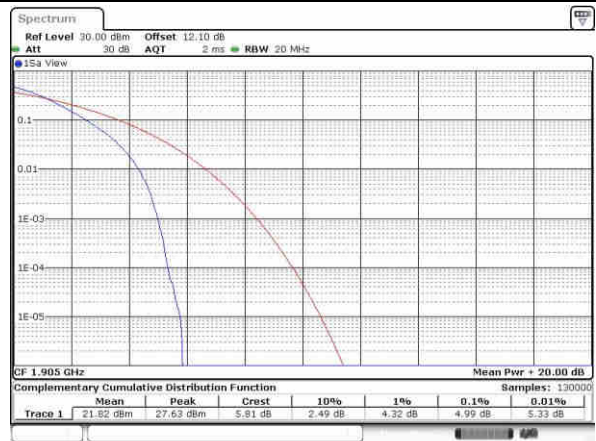
Middle Channel / Full RB



Highest Channel / 1RB



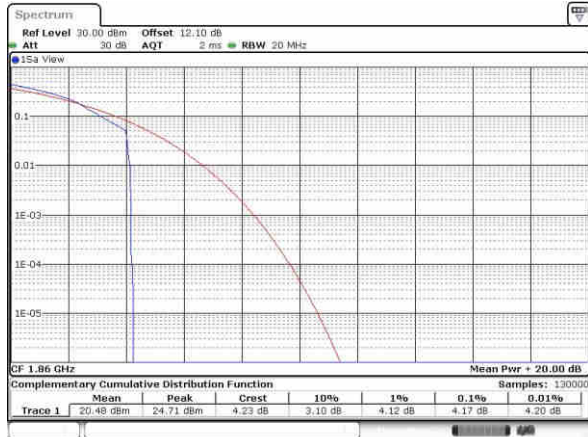
Highest Channel / Full RB



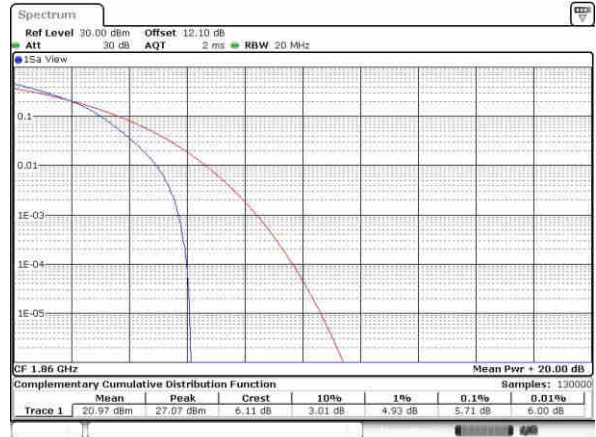


LTE Band 25 / 20MHz / 16QAM

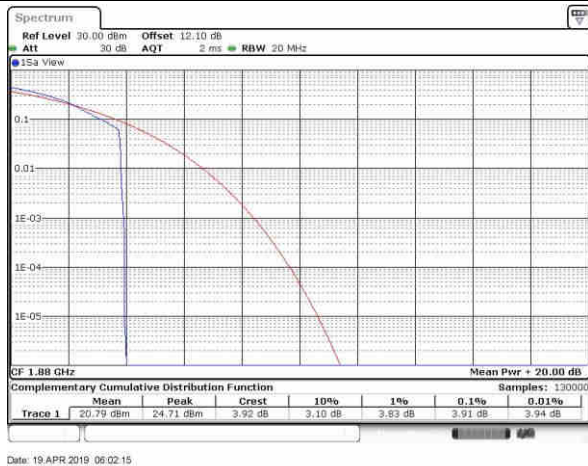
Lowest Channel / 1RB



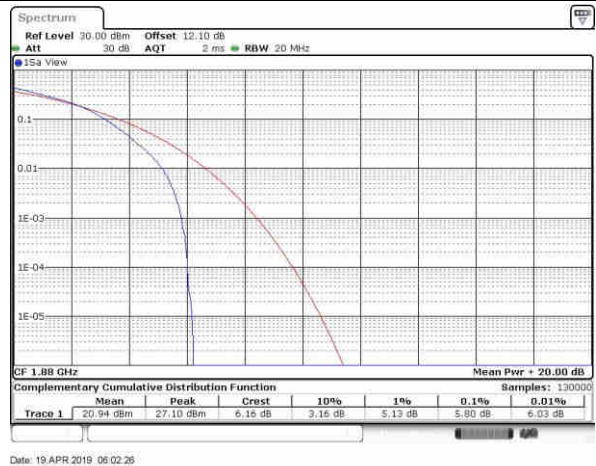
Lowest Channel / Full RB



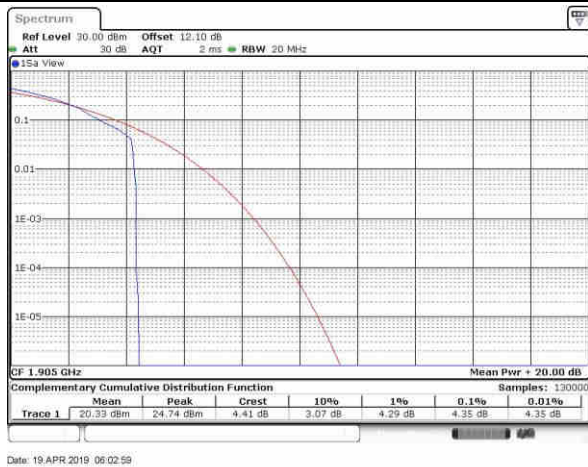
Middle Channel / 1RB



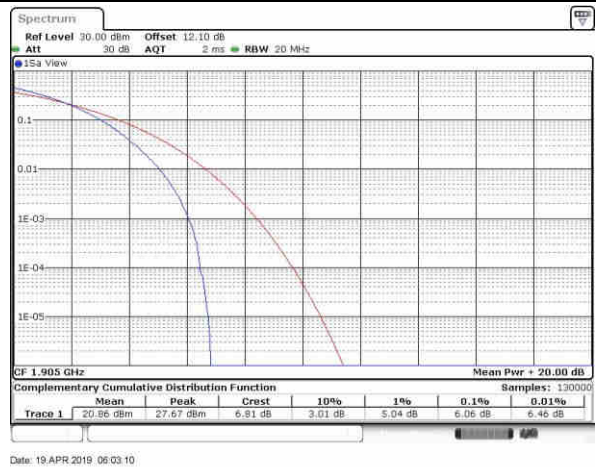
Middle Channel / Full RB



Highest Channel / 1RB



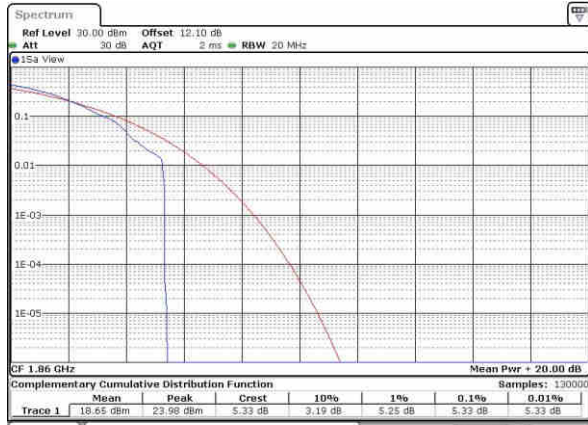
Highest Channel / Full RB





LTE Band 25 / 20MHz / 64QAM

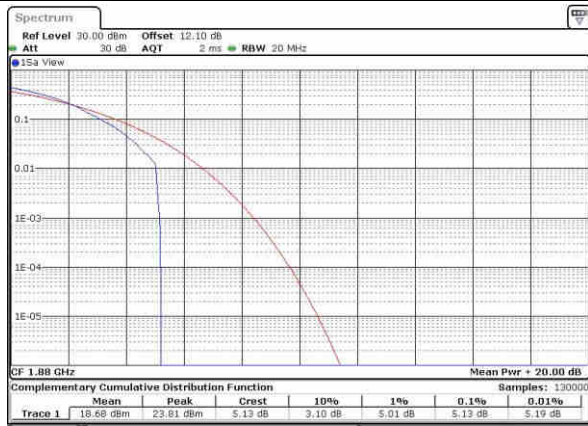
Lowest Channel / 1RB



Lowest Channel / Full RB



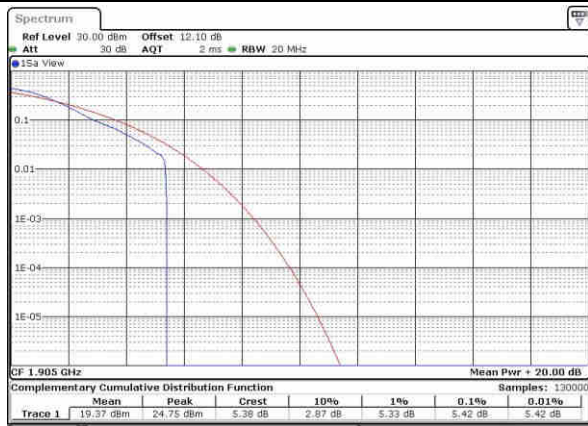
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



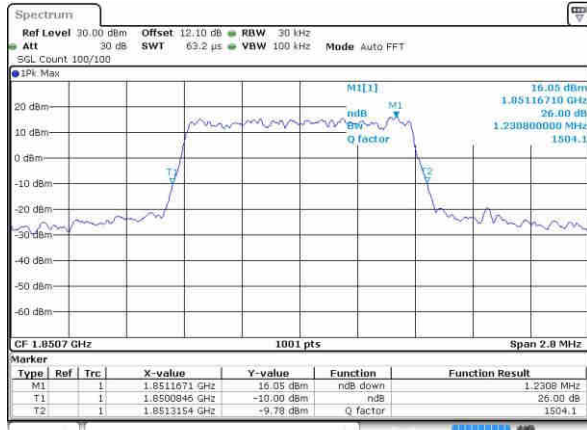
**26dB Bandwidth**

Mode	LTE Band 25 : 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	1.23	1.23	3.06	2.97	4.88	4.89	9.63	9.85	14.24	14.57	20.14	20.14
Middle CH	1.24	1.21	3.03	3.02	4.91	4.89	9.71	9.69	14.24	14.30	20.30	20.22
Highest CH	1.24	1.24	2.99	3.07	4.87	4.84	9.71	9.63	14.30	14.33	20.10	20.26
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.22	-	3.07	-	4.97	-	9.83	-	14.45	-	20.26	-
Middle CH	1.23	-	3.02	-	4.88	-	9.75	-	14.30	-	20.14	-
Highest CH	1.24	-	3.02	-	5.00	-	9.87	-	14.39	-	20.10	-



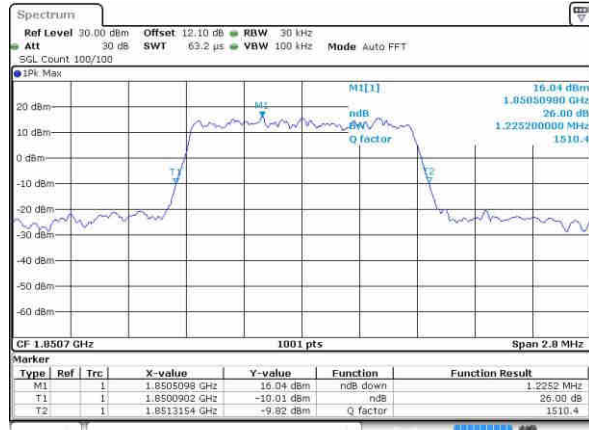
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



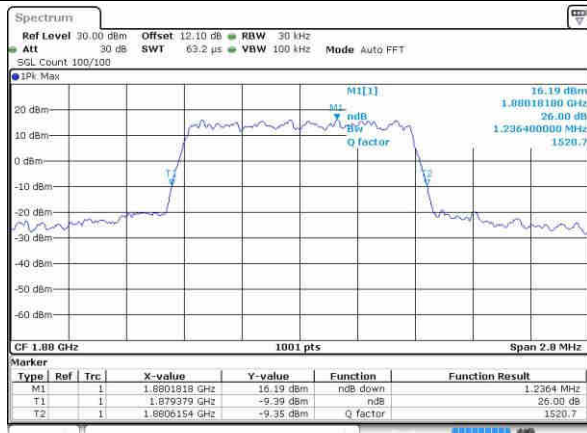
Date: 19 APR 2019 04:48:01

Lowest Channel / 1.4MHz / 16QAM



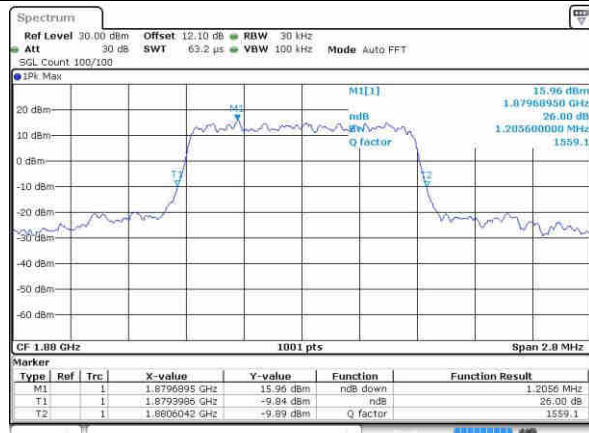
Date: 19 APR 2019 04:48:13

Middle Channel / 1.4MHz / QPSK



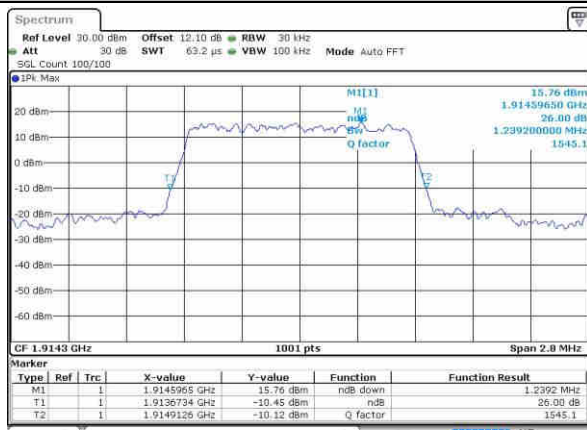
Date: 19 APR 2019 04:55:10

Middle Channel / 1.4MHz / 16QAM



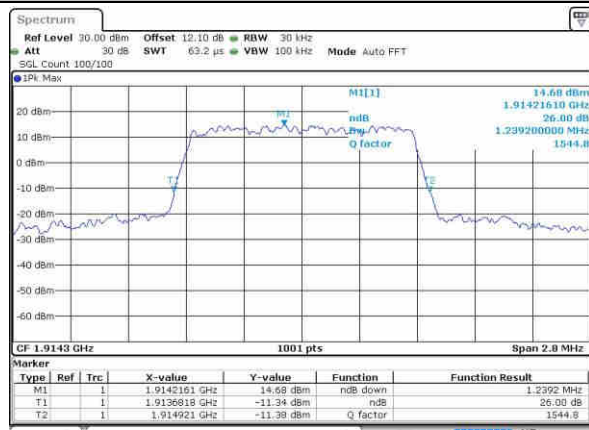
Date: 19 APR 2019 04:55:22

Highest Channel / 1.4MHz / QPSK



Date: 19 APR 2019 04:57:53

Highest Channel / 1.4MHz / 16QAM

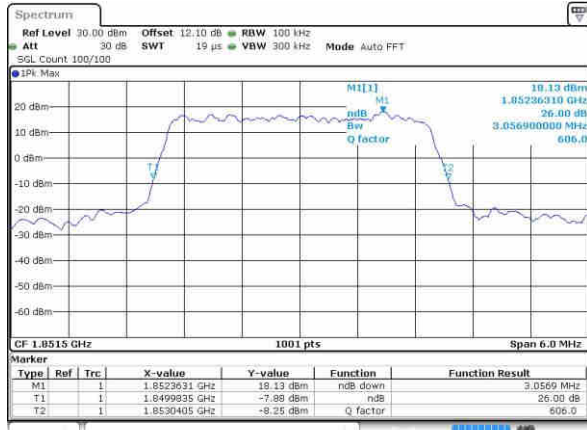


Date: 19 APR 2019 04:57:41



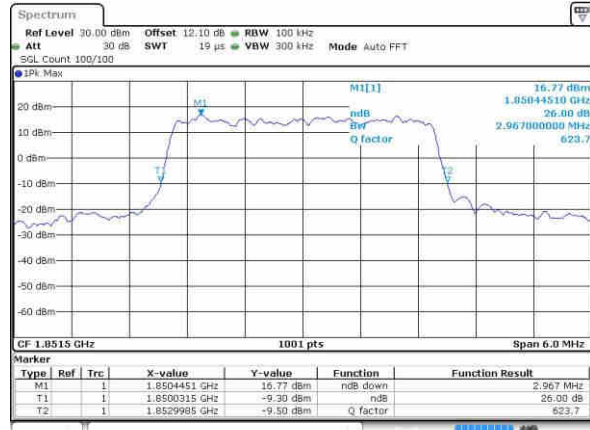
LTE Band 25

Lowest Channel / 3MHz / QPSK



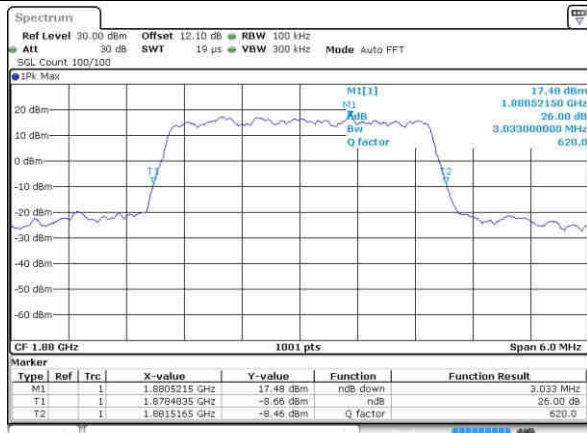
Date: 19 APR 2019 03:13:28

Lowest Channel / 3MHz / 16QAM



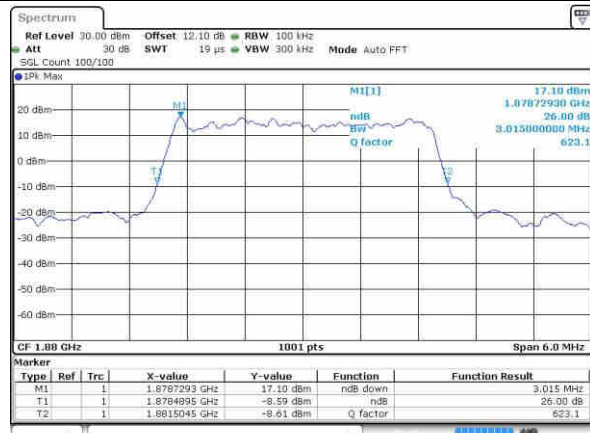
Date: 19 APR 2019 03:13:40

Middle Channel / 3MHz / QPSK



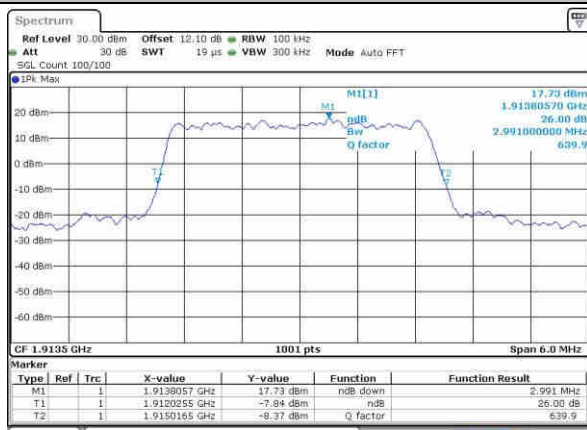
Date: 19 APR 2019 03:20:38

Middle Channel / 3MHz / 16QAM



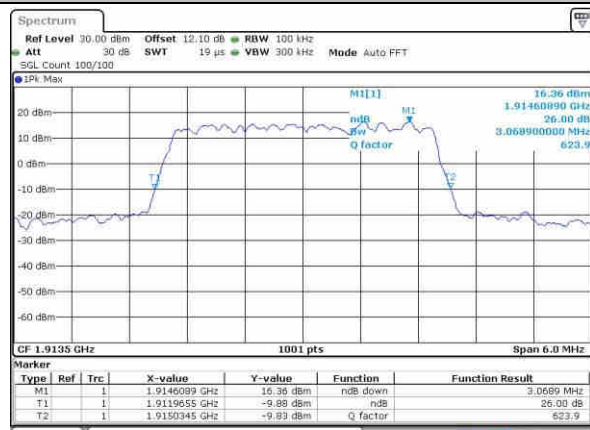
Date: 19 APR 2019 03:20:51

Highest Channel / 3MHz / QPSK



Date: 19 APR 2019 03:23:22

Highest Channel / 3MHz / 16QAM

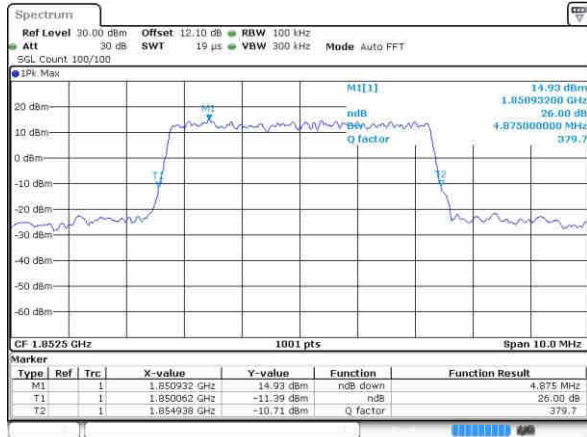


Date: 19 APR 2019 03:23:10

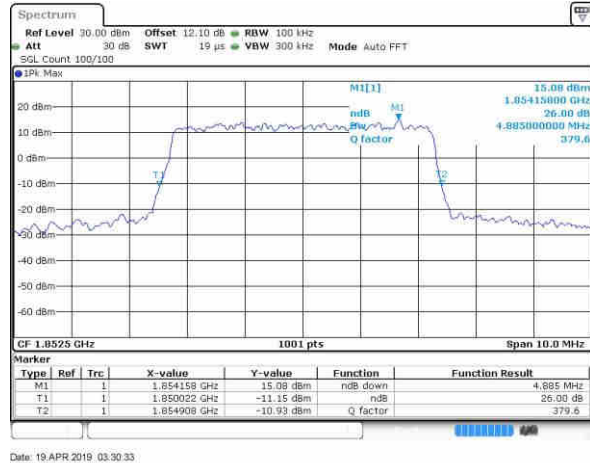


LTE Band 25

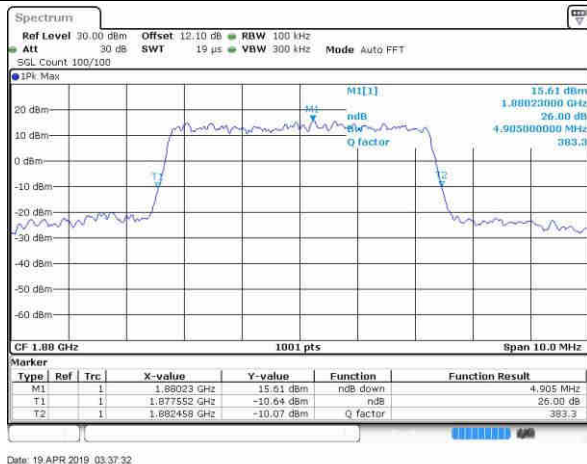
Lowest Channel / 5MHz / QPSK



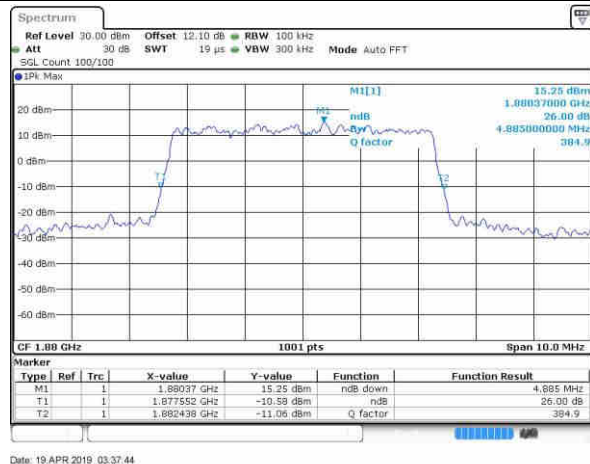
Lowest Channel / 5MHz / 16QAM



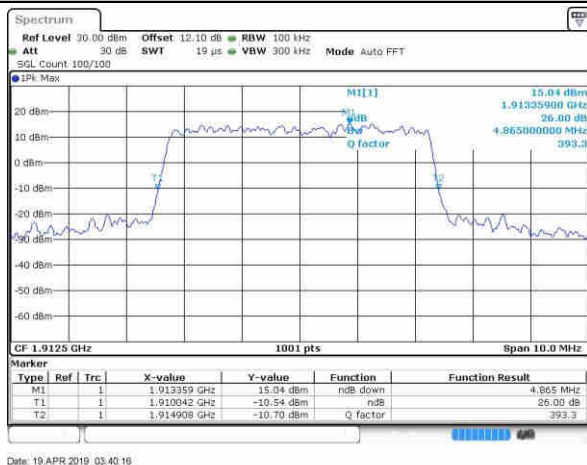
Middle Channel / 5MHz / QPSK



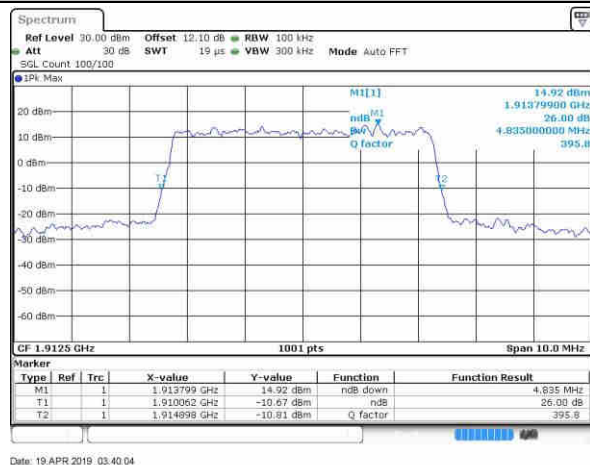
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



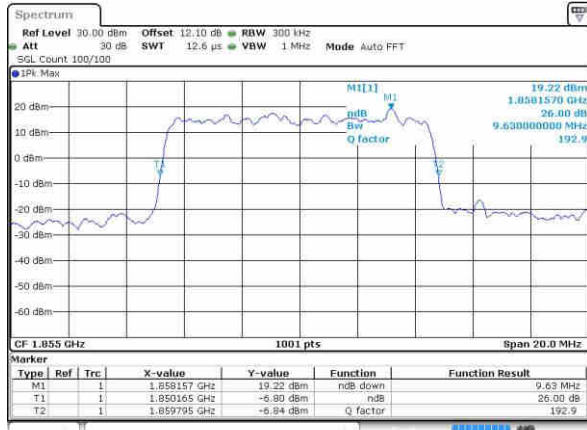
Highest Channel / 5MHz / 16QAM



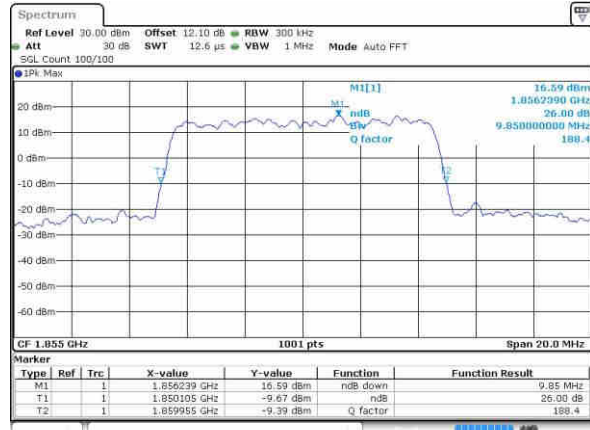


LTE Band 25

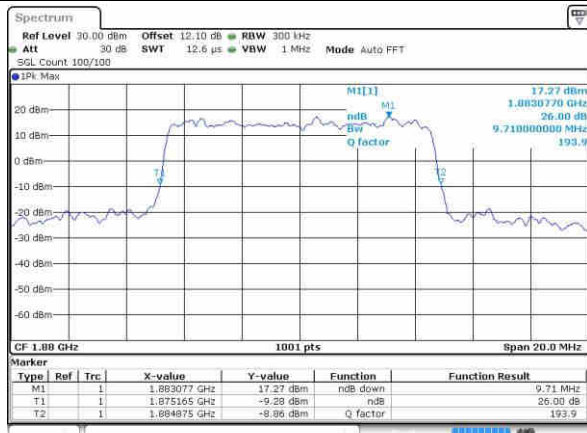
Lowest Channel / 10MHz / QPSK



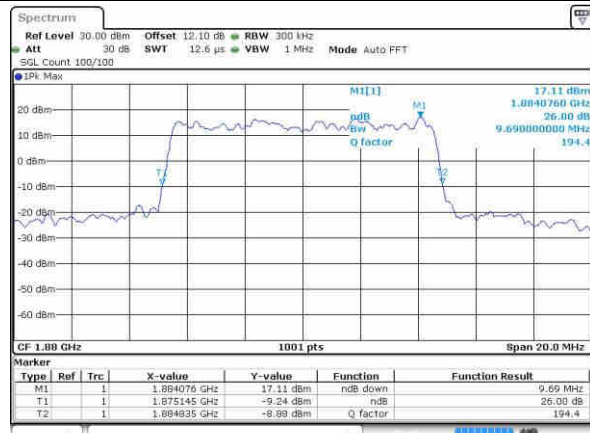
Lowest Channel / 10MHz / 16QAM



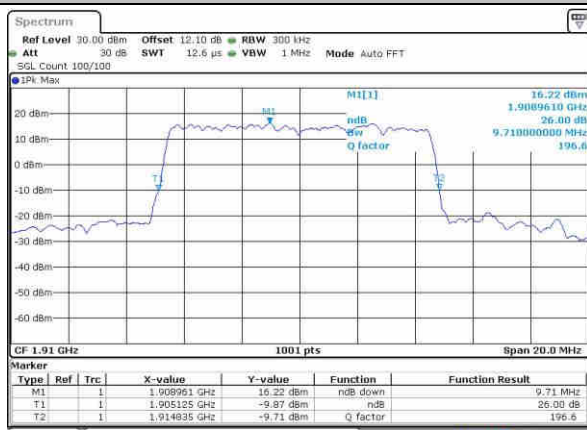
Middle Channel / 10MHz / QPSK



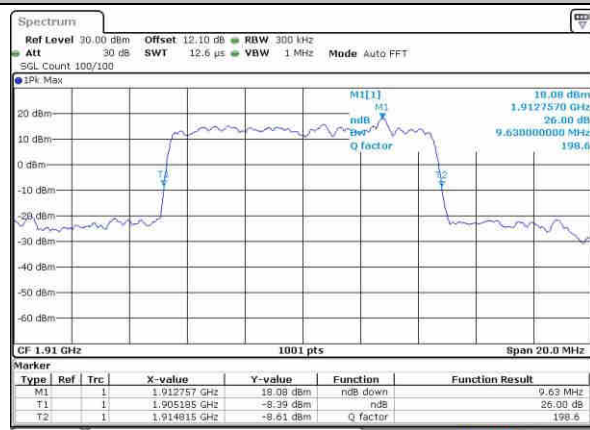
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



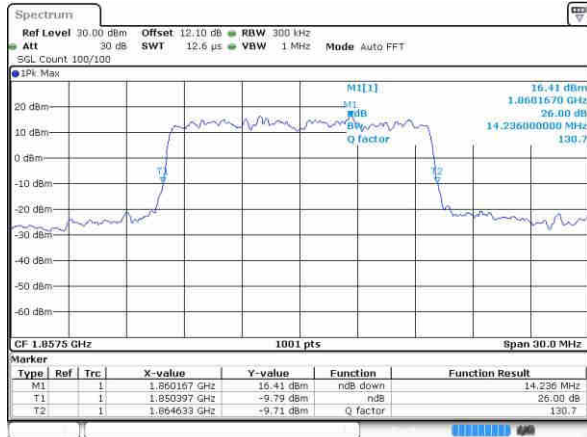
Highest Channel / 10MHz / 16QAM



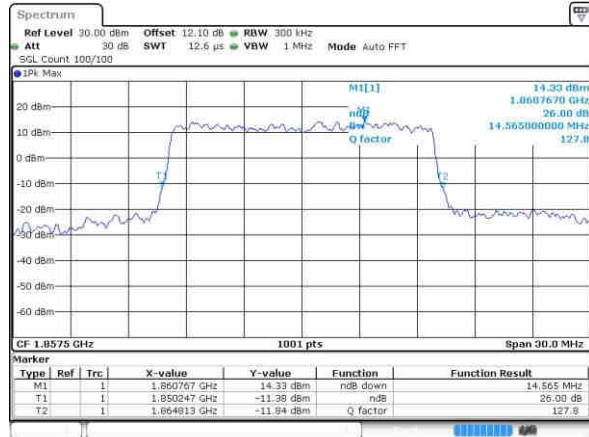


LTE Band 25

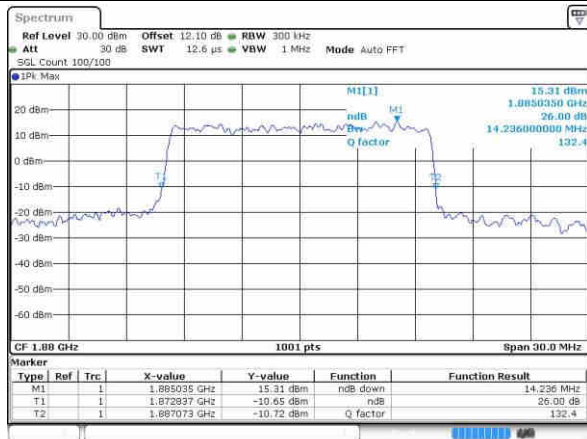
Lowest Channel / 15MHz / QPSK



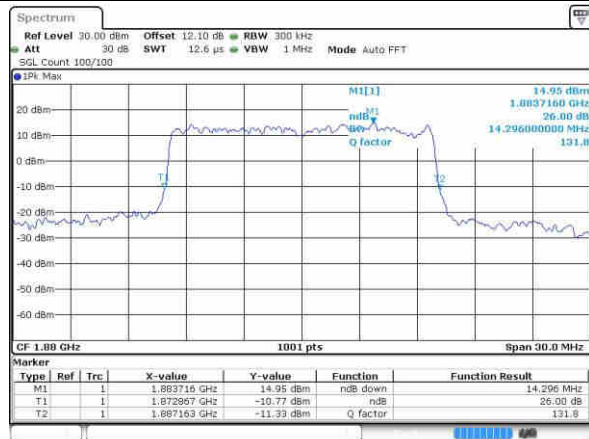
Lowest Channel / 15MHz / 16QAM



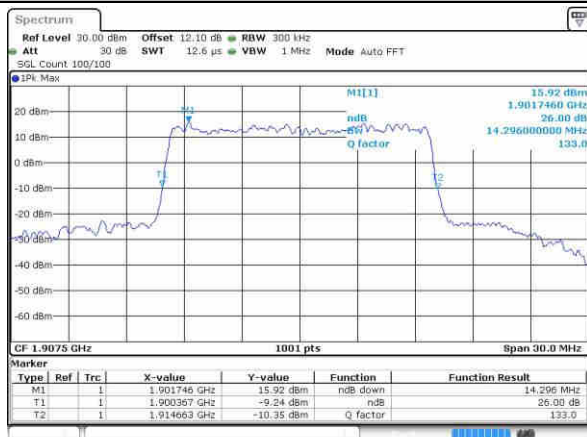
Middle Channel / 15MHz / QPSK



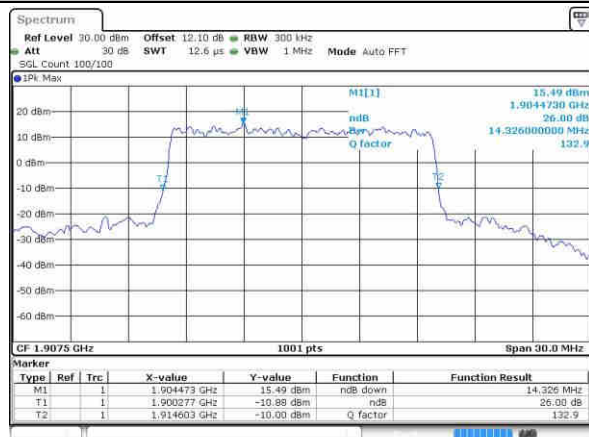
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



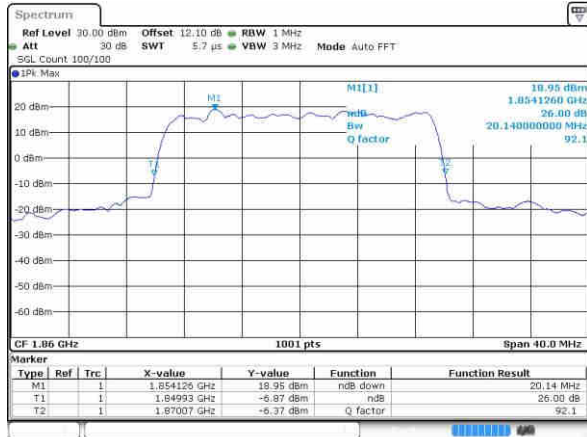
Highest Channel / 15MHz / 16QAM





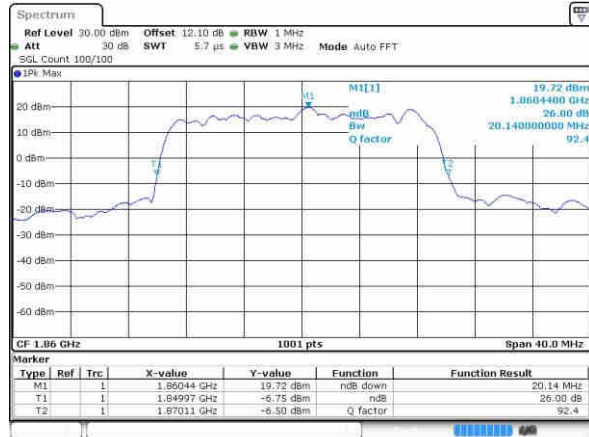
LTE Band 25

Lowest Channel / 20MHz / QPSK



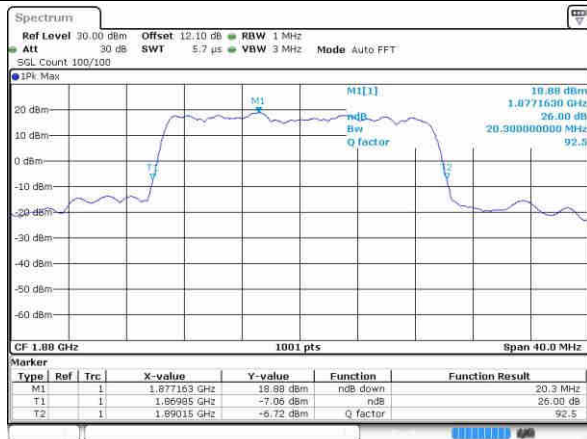
Date: 19 APR 2019 04:21:00

Lowest Channel / 20MHz / 16QAM



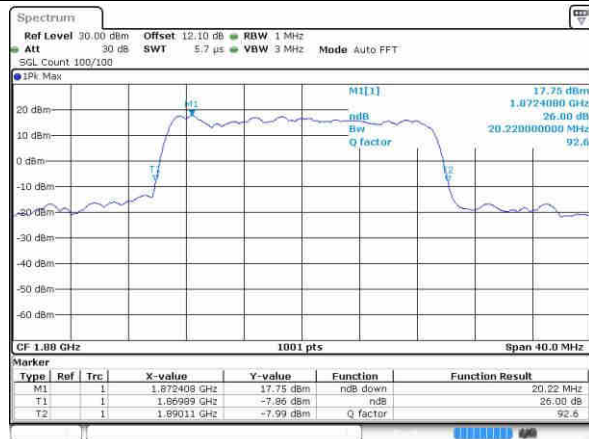
Date: 19 APR 2019 04:21:12

Middle Channel / 20MHz / QPSK



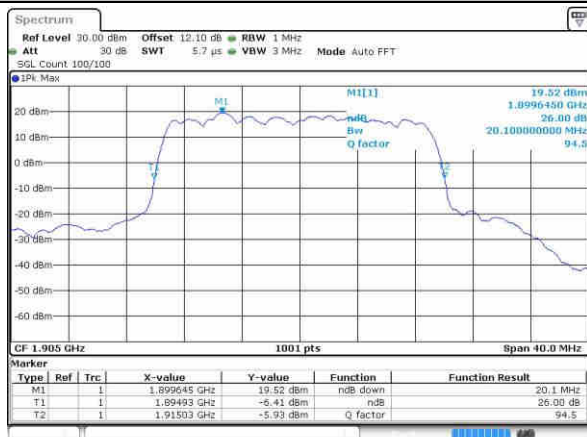
Date: 19 APR 2019 04:28:09

Middle Channel / 20MHz / 16QAM



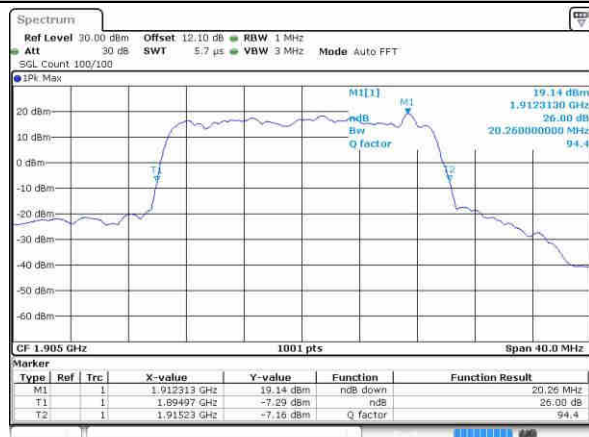
Date: 19 APR 2019 04:28:21

Highest Channel / 20MHz / QPSK



Date: 19 APR 2019 04:30:53

Highest Channel / 20MHz / 16QAM

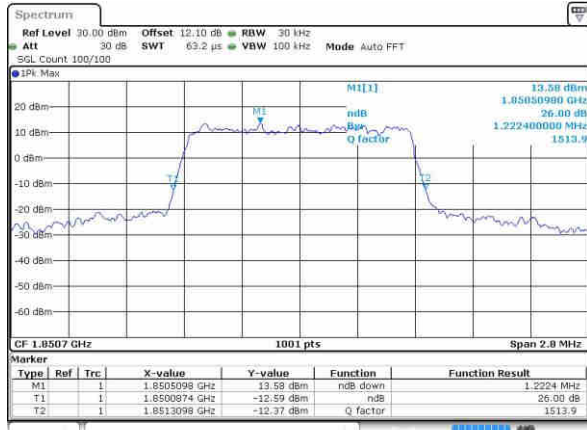


Date: 19 APR 2019 04:30:41



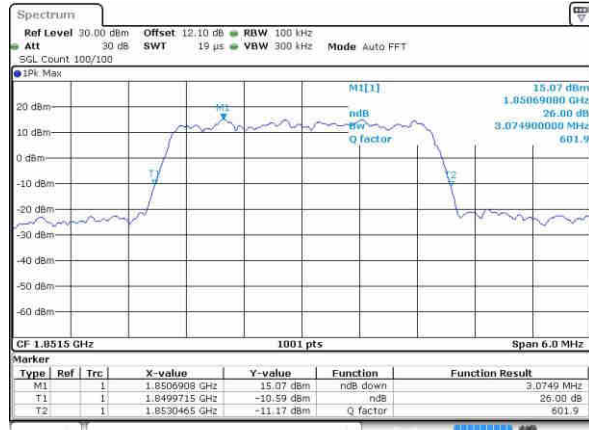
LTE Band 25

Lowest Channel / 1.4MHz / 64QAM



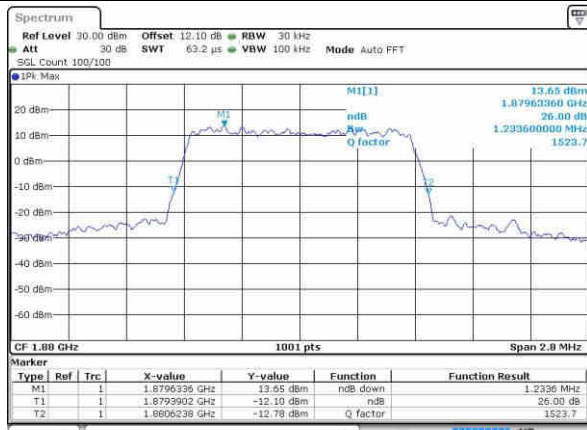
Date: 19 APR 2019 05:04:38

Lowest Channel / 3MHz / 64QAM



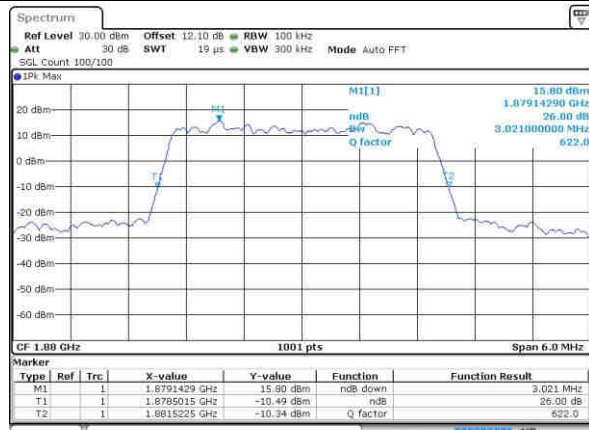
Date: 19 APR 2019 05:13:04

Middle Channel / 1.4MHz / 64QAM



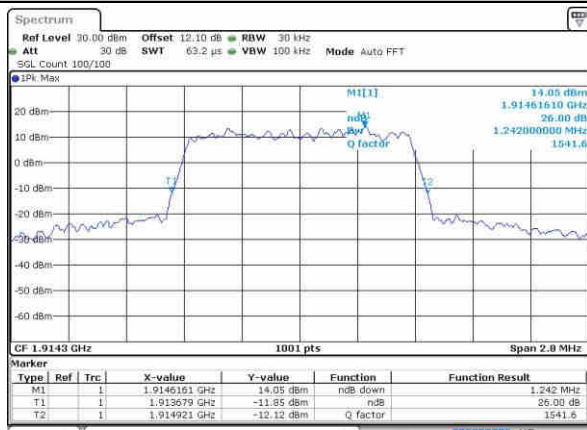
Date: 19 APR 2019 05:08:13

Middle Channel / 3MHz / 64QAM



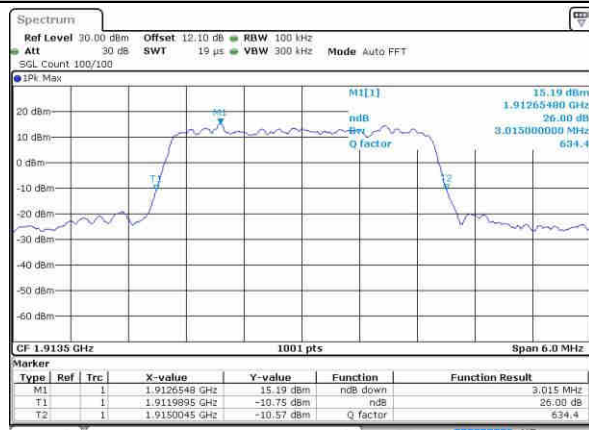
Date: 19 APR 2019 05:16:39

Highest Channel / 1.4MHz / 64QAM



Date: 19 APR 2019 05:09:29

Highest Channel / 3MHz / 64QAM

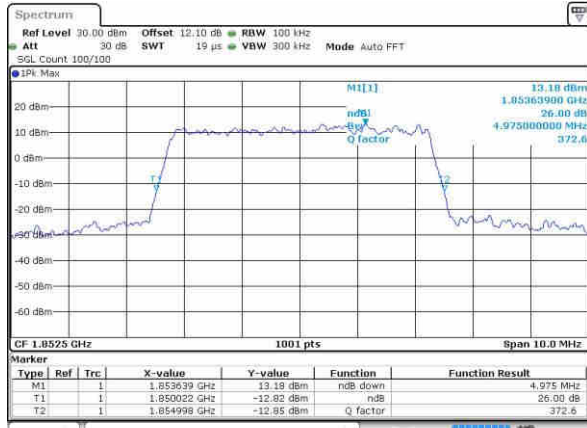


Date: 19 APR 2019 05:17:54



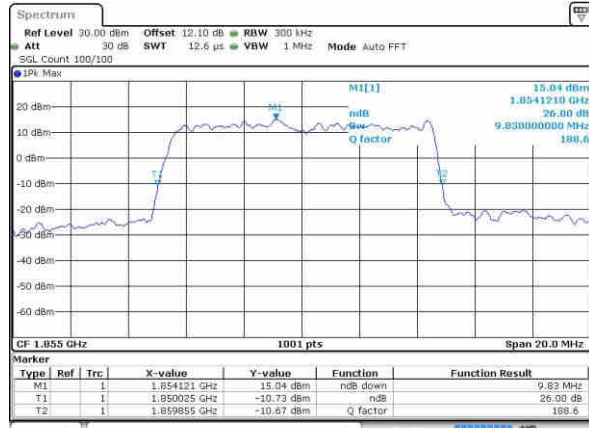
LTE Band 25

Lowest Channel / 5MHz / 64QAM



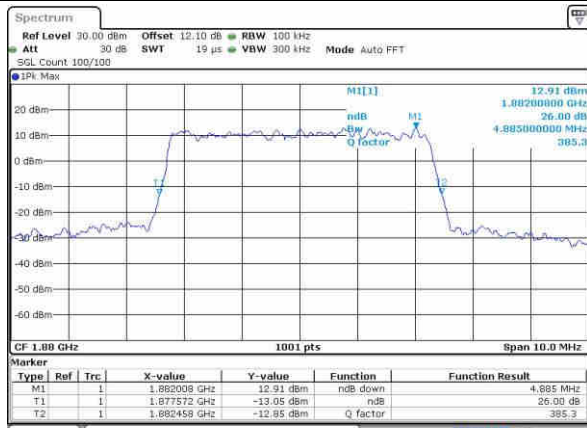
Date: 19 APR 2019 05:21:29

Lowest Channel / 10MHz / 64QAM



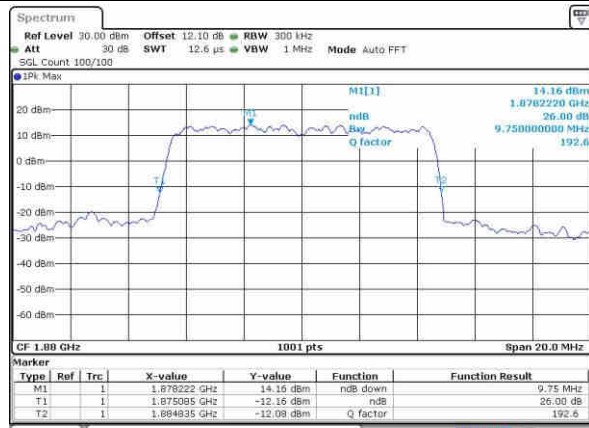
Date: 19 APR 2019 05:34:42

Middle Channel / 5MHz / 64QAM



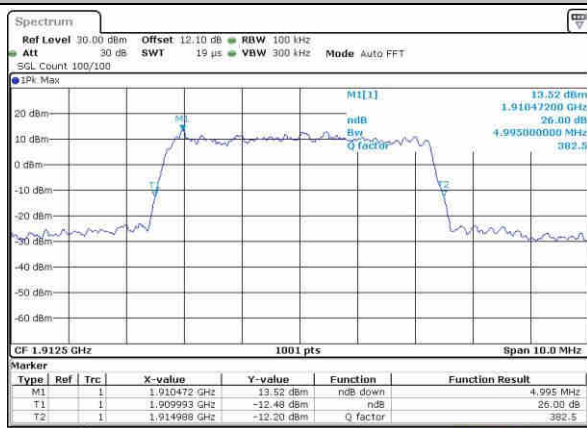
Date: 19 APR 2019 05:25:04

Middle Channel / 10MHz / 64QAM



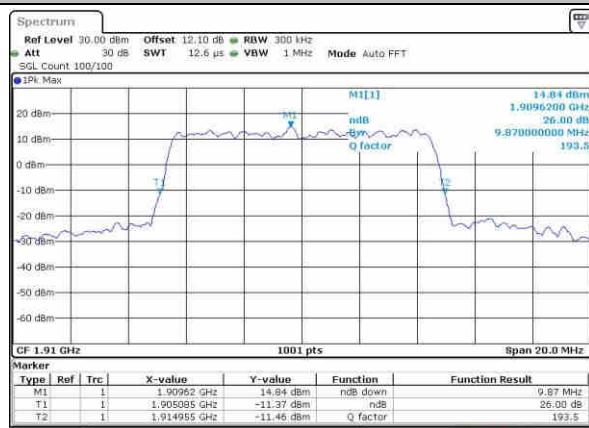
Date: 19 APR 2019 05:37:38

Highest Channel / 5MHz / 64QAM



Date: 19 APR 2019 05:31:47

Highest Channel / 10MHz / 64QAM

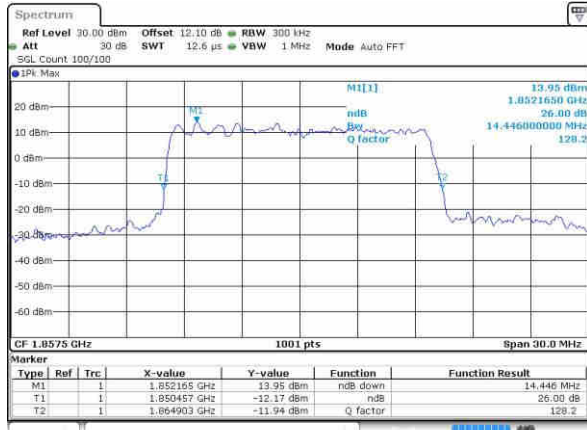


Date: 19 APR 2019 05:38:53



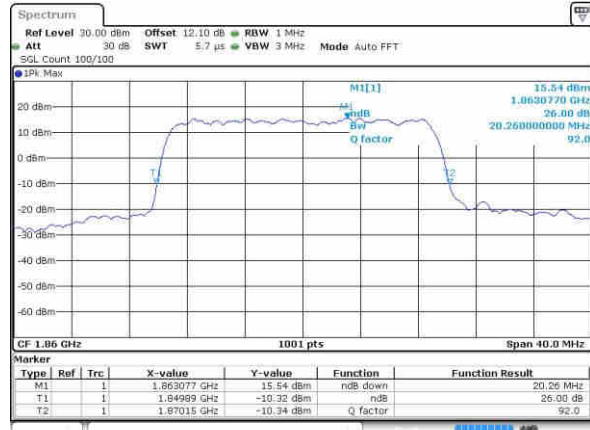
LTE Band 25

Lowest Channel / 15MHz / 64QAM



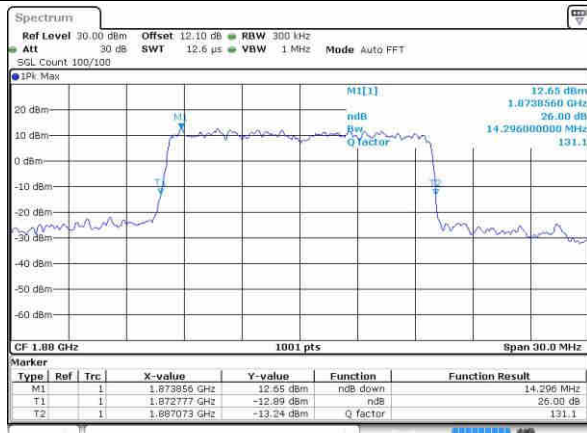
Date: 19 APR 2019 05:44:21

Lowest Channel / 20MHz / 64QAM



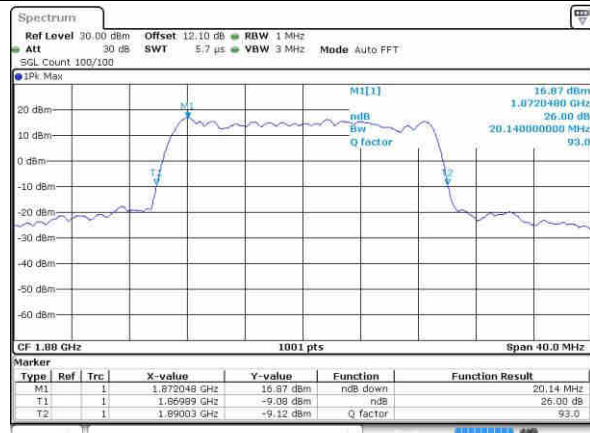
Date: 19 APR 2019 05:51:27

Middle Channel / 15MHz / 64QAM



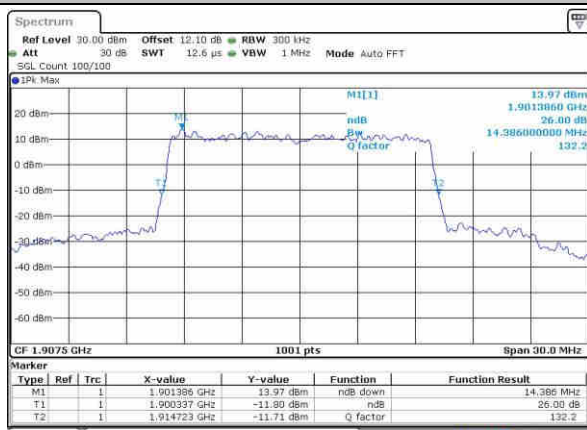
Date: 19 APR 2019 05:47:16

Middle Channel / 20MHz / 64QAM



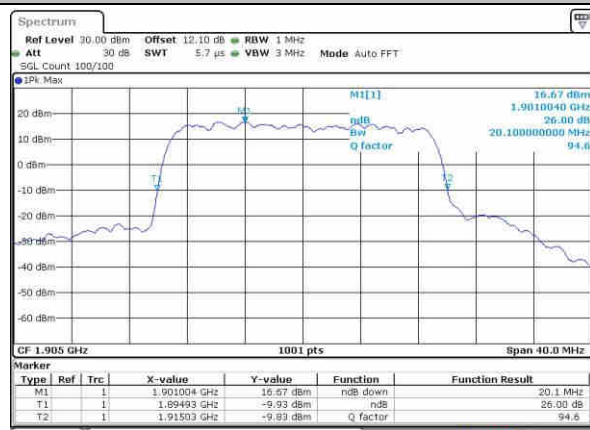
Date: 19 APR 2019 05:54:23

Highest Channel / 15MHz / 64QAM



Date: 19 APR 2019 05:48:32

Highest Channel / 20MHz / 64QAM



Date: 19 APR 2019 05:55:39

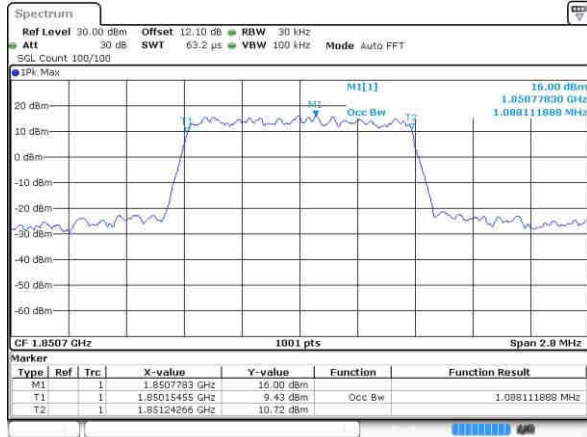
**Occupied Bandwidth**

Mode	LTE Band 25 : 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	1.09	2.71	2.71	4.49	4.49	9.07	9.01	13.43	13.43	18.3	18.42
Middle CH	1.1	1.09	2.72	2.71	4.49	4.48	8.99	9.01	13.43	13.46	18.54	18.34
Highest CH	1.09	1.09	2.72	2.73	4.48	4.5	9.05	9.05	13.46	13.43	18.34	18.42
Mode	LTE Band 25 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.72	-	4.49	-	9.05	-	13.49	-	18.42	-
Middle CH	1.09	-	2.72	-	4.51	-	9.05	-	13.40	-	18.38	-
Highest CH	1.09	-	2.71	-	4.51	-	9.05	-	13.46	-	18.22	-

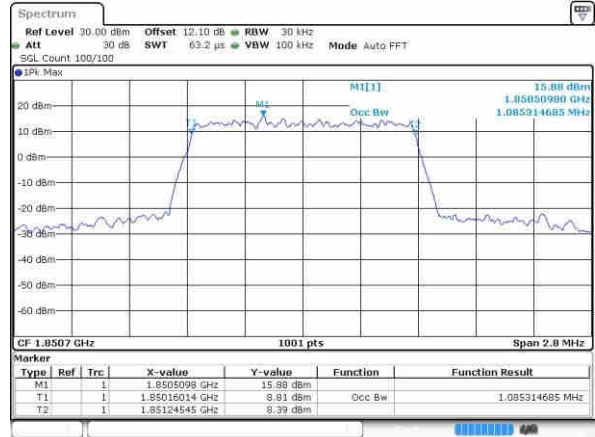


LTE Band 25

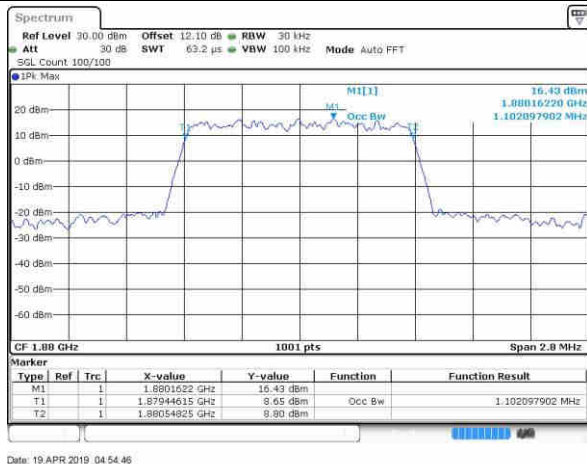
Lowest Channel / 1.4MHz / QPSK



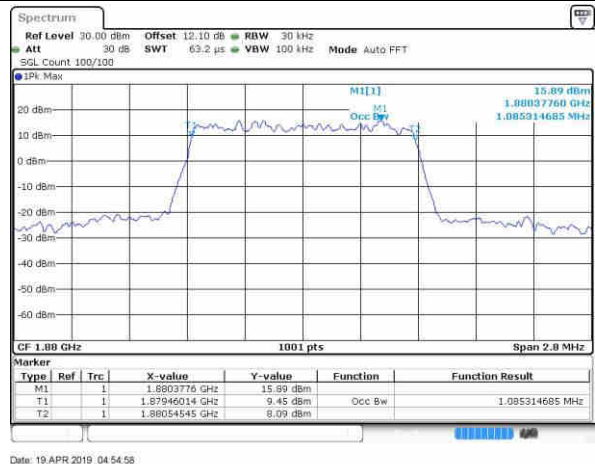
Lowest Channel / 1.4MHz / 16QAM



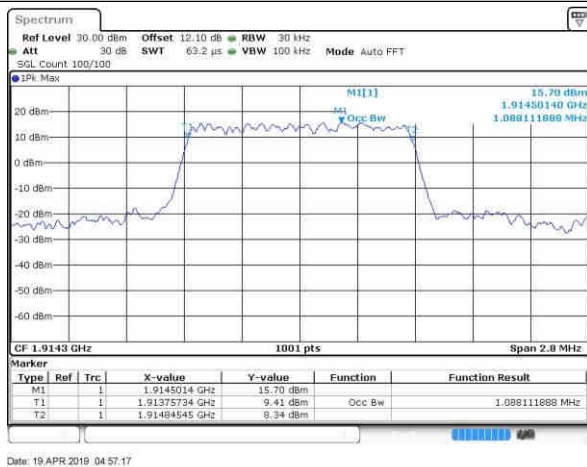
Middle Channel / 1.4MHz / QPSK



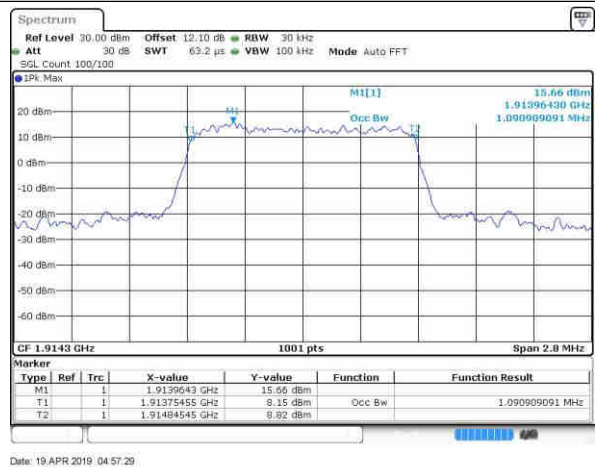
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



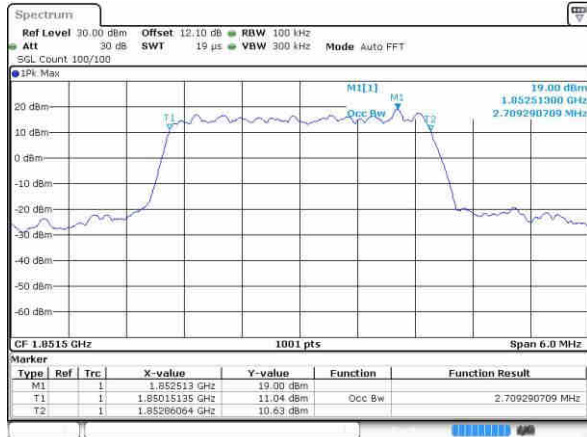
Highest Channel / 1.4MHz / 16QAM





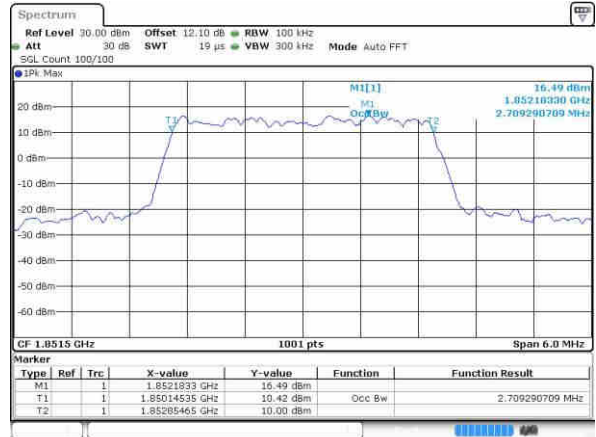
LTE Band 25

Lowest Channel / 3MHz / QPSK



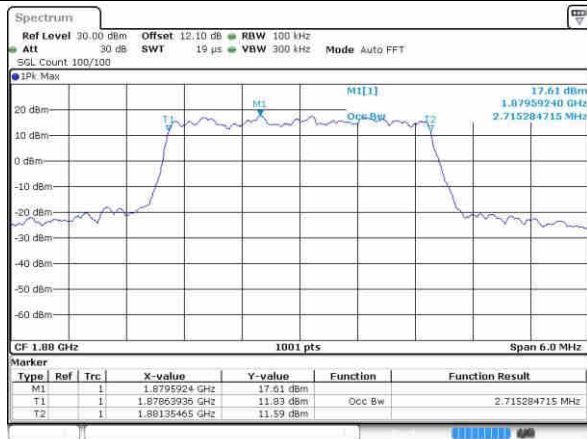
Date: 19 APR 2019 03:12:03

Lowest Channel / 3MHz / 16QAM



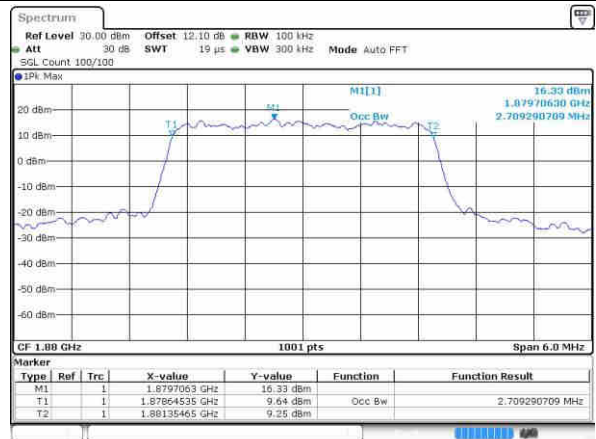
Date: 19 APR 2019 03:13:16

Middle Channel / 3MHz / QPSK



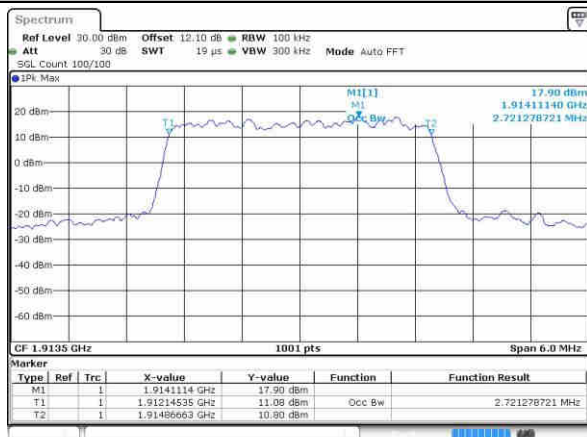
Date: 19 APR 2019 03:20:14

Middle Channel / 3MHz / 16QAM



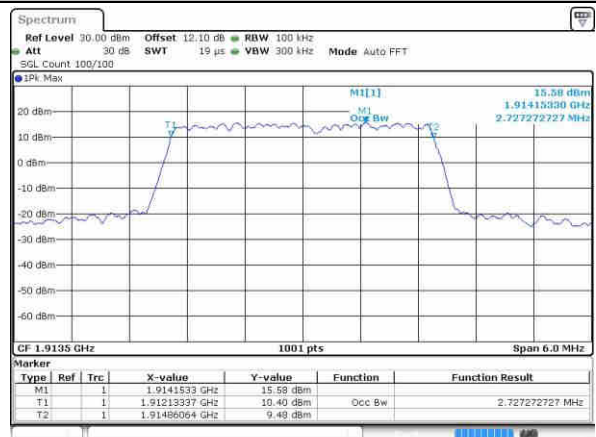
Date: 19 APR 2019 03:20:26

Highest Channel / 3MHz / QPSK



Date: 19 APR 2019 03:22:46

Highest Channel / 3MHz / 16QAM

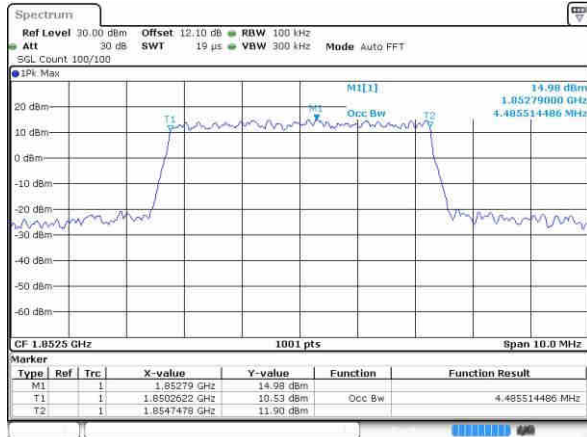


Date: 19 APR 2019 03:22:58

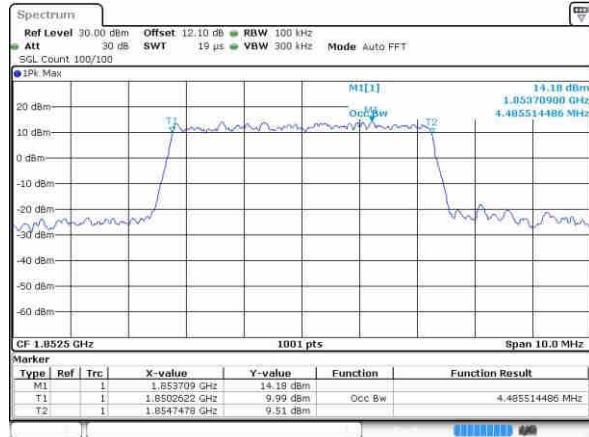


LTE Band 25

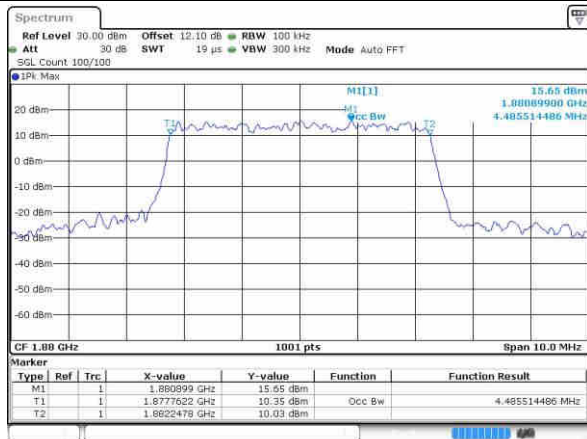
Lowest Channel / 5MHz / QPSK



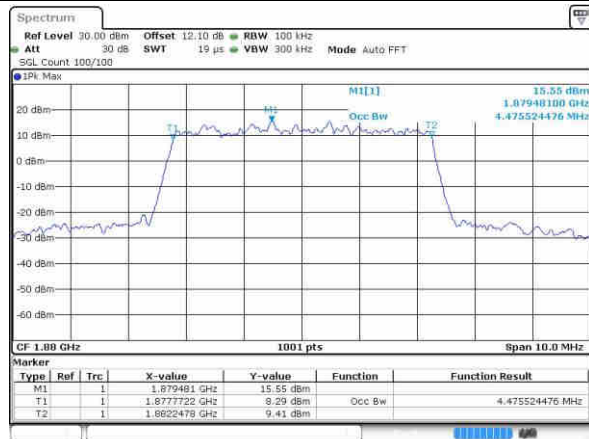
Lowest Channel / 5MHz / 16QAM



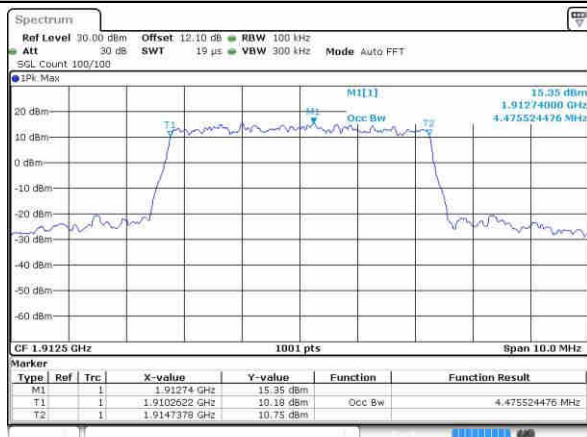
Middle Channel / 5MHz / QPSK



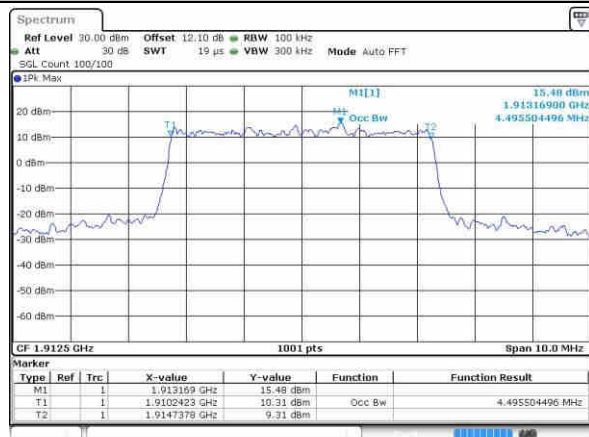
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



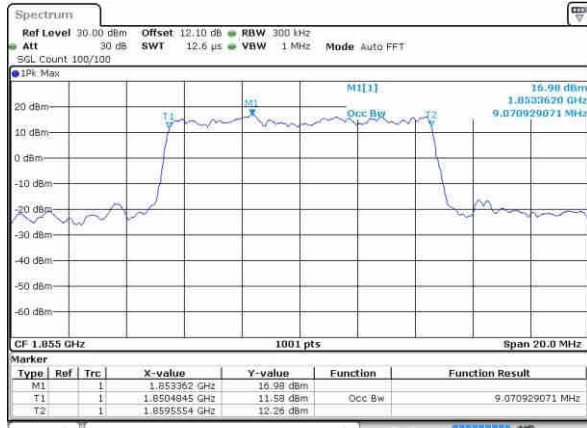
Highest Channel / 5MHz / 16QAM



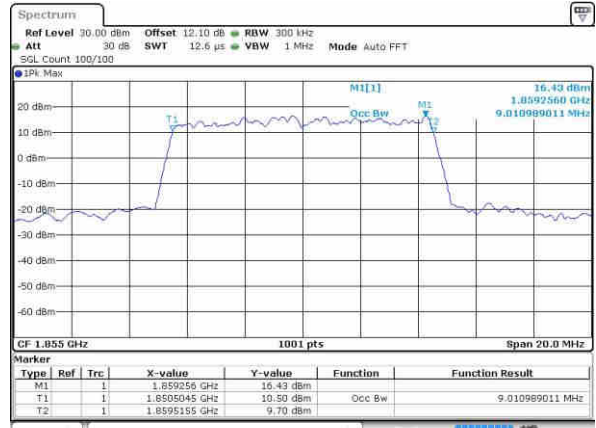


LTE Band 25

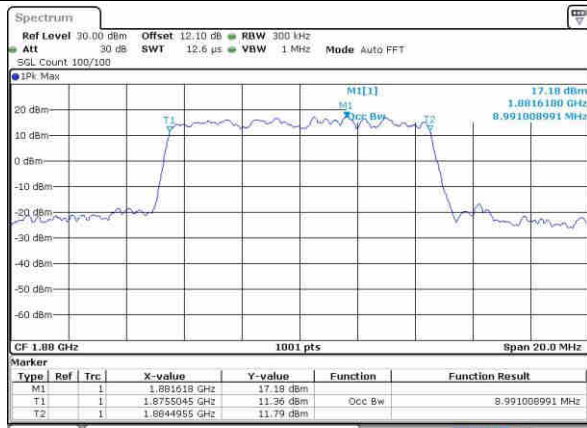
Lowest Channel / 10MHz / QPSK



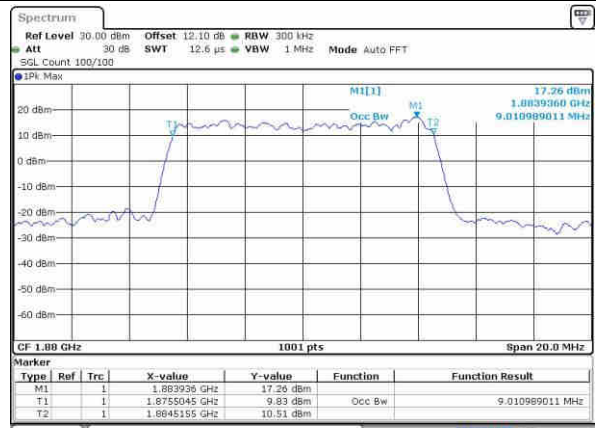
Lowest Channel / 10MHz / 16QAM



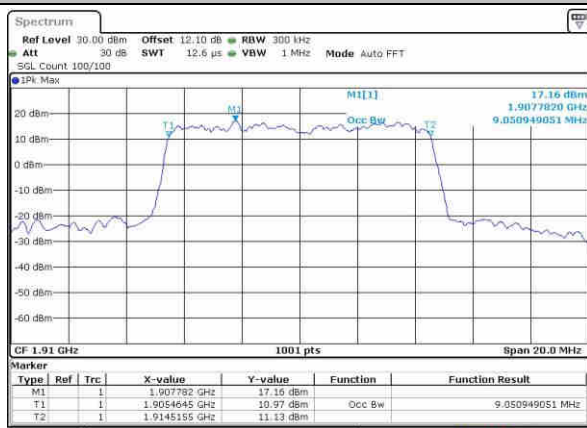
Middle Channel / 10MHz / QPSK



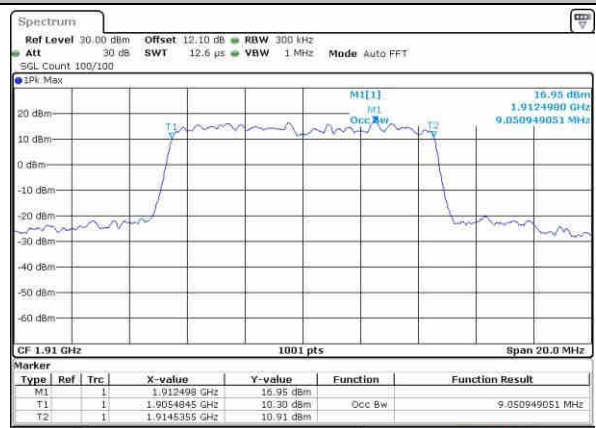
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



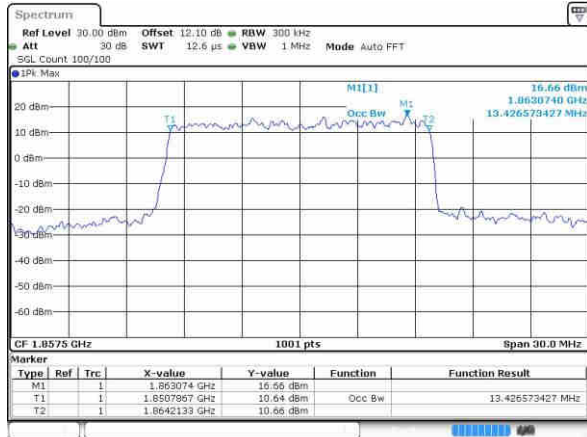
Highest Channel / 10MHz / 16QAM



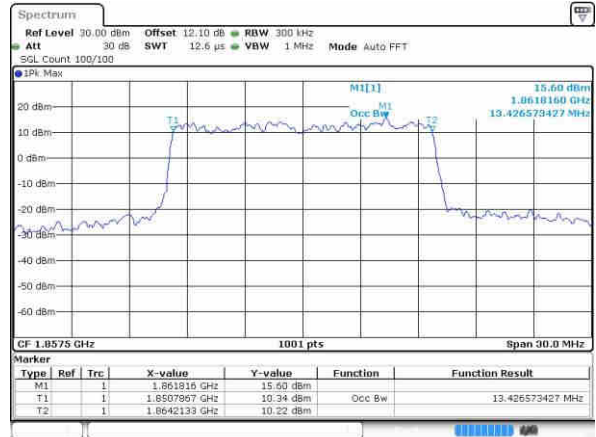


LTE Band 25

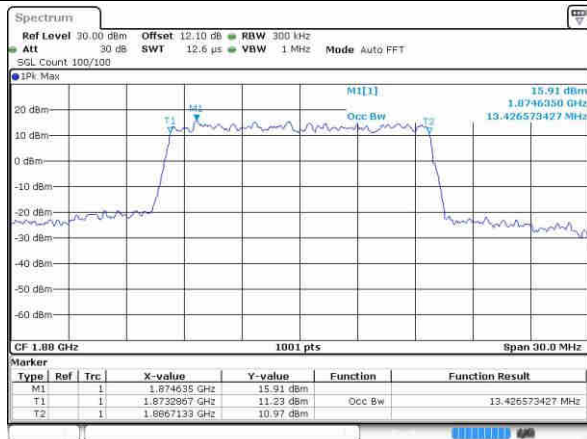
Lowest Channel / 15MHz / QPSK



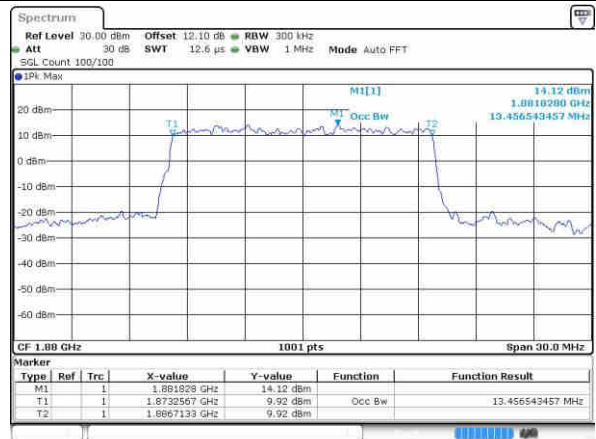
Lowest Channel / 15MHz / 16QAM



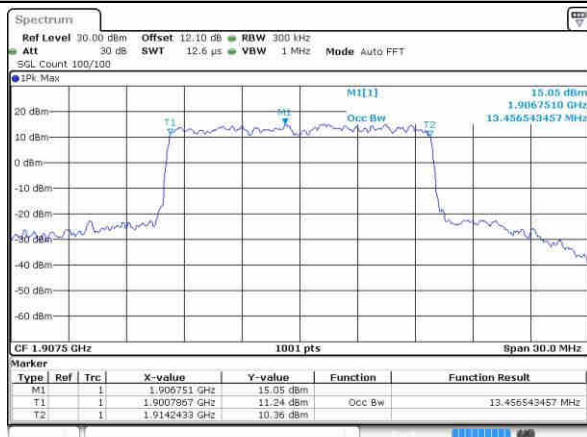
Middle Channel / 15MHz / QPSK



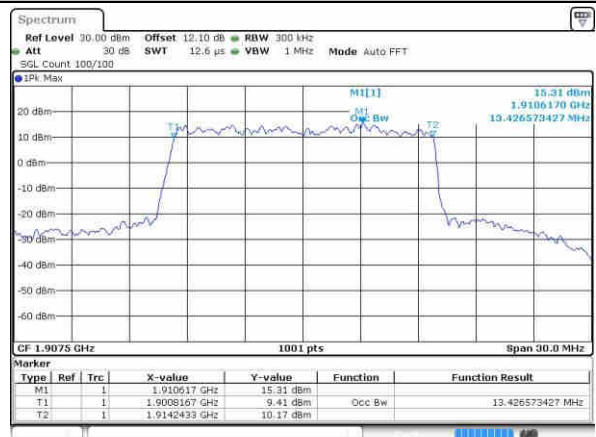
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



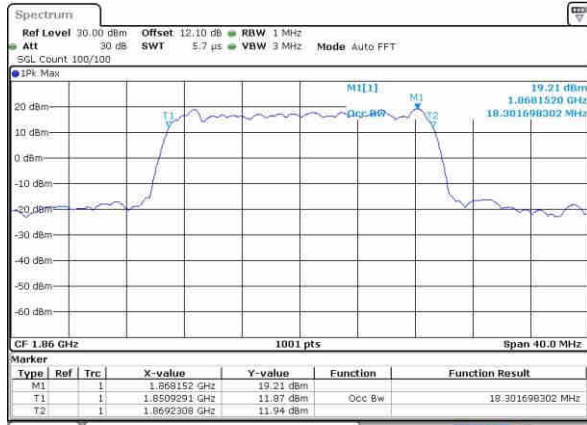
Highest Channel / 15MHz / 16QAM



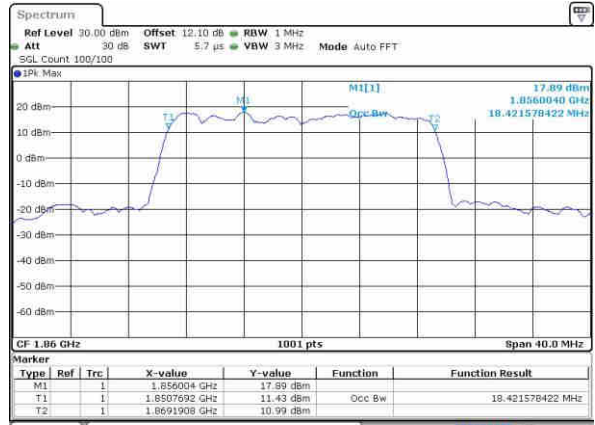


LTE Band 25

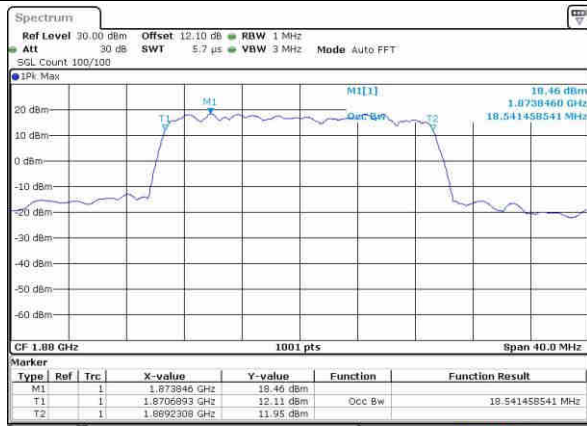
Lowest Channel / 20MHz / QPSK



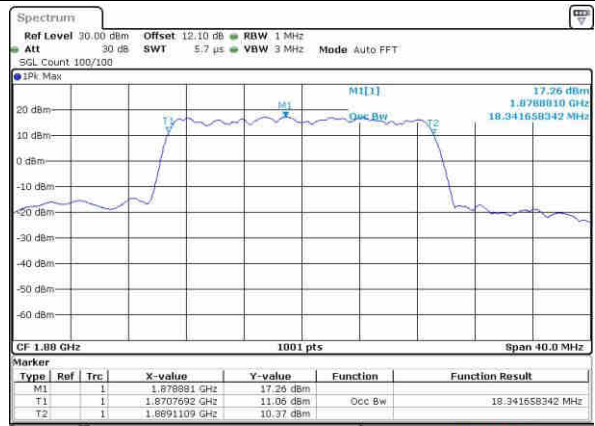
Lowest Channel / 20MHz / 16QAM



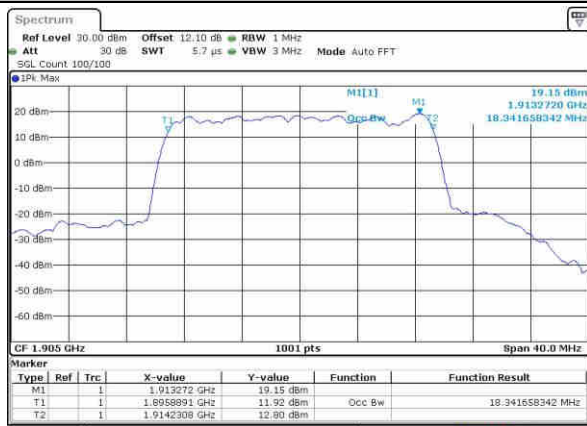
Middle Channel / 20MHz / QPSK



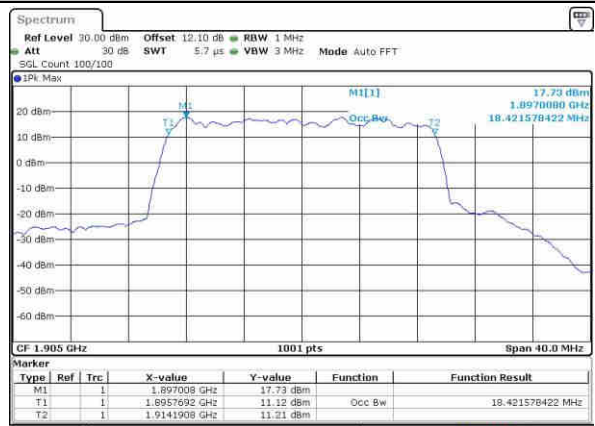
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



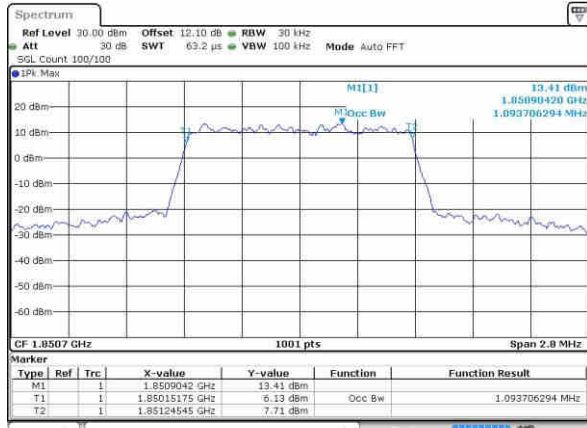
Highest Channel / 20MHz / 16QAM



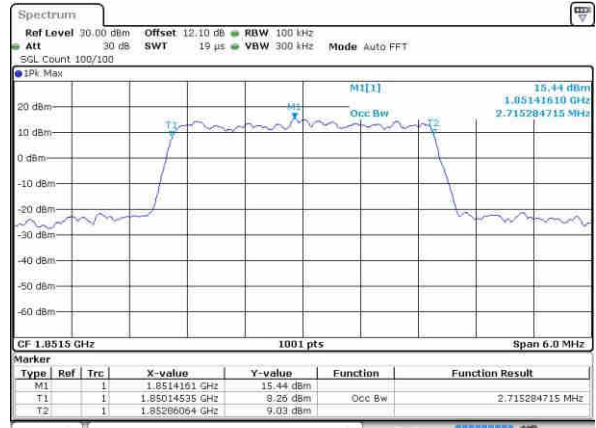


LTE Band 25

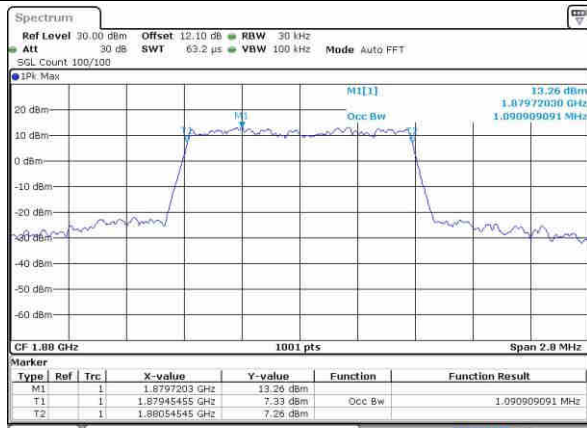
Lowest Channel / 1.4MHz / 64QAM



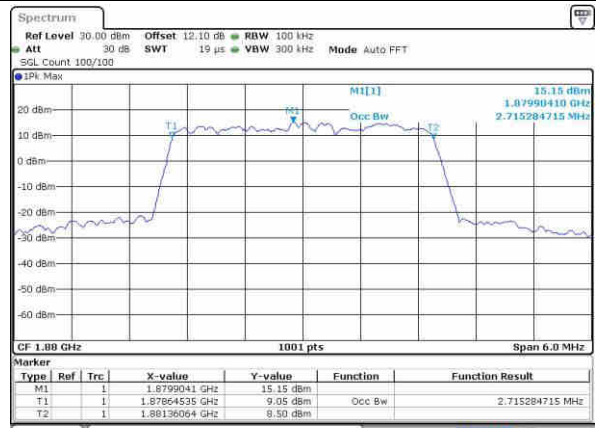
Lowest Channel / 3MHz / 64QAM



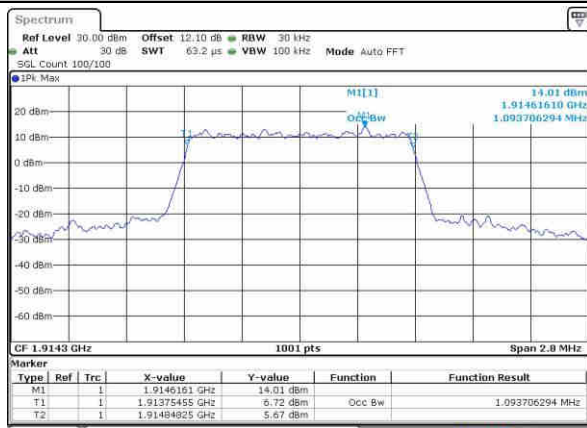
Middle Channel / 1.4MHz / 64QAM



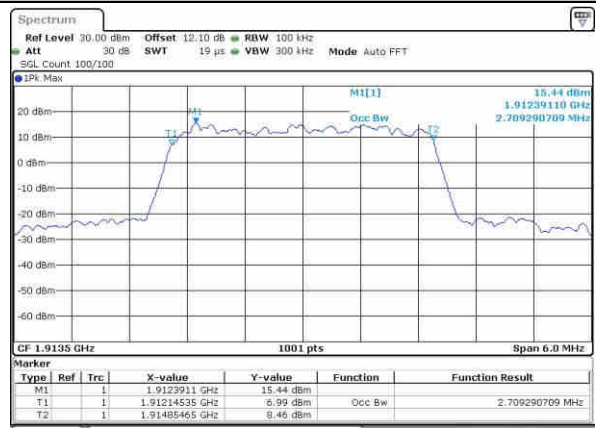
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



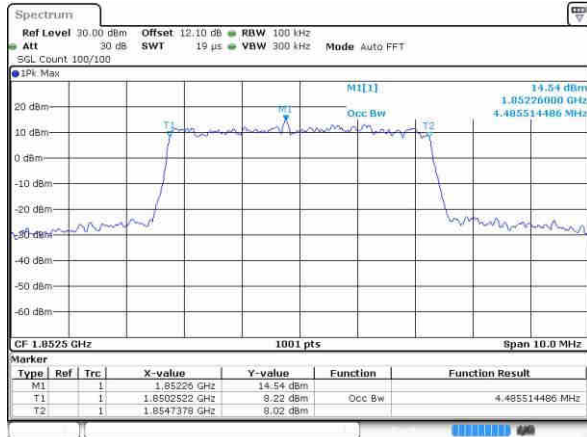
Highest Channel / 3MHz / 64QAM



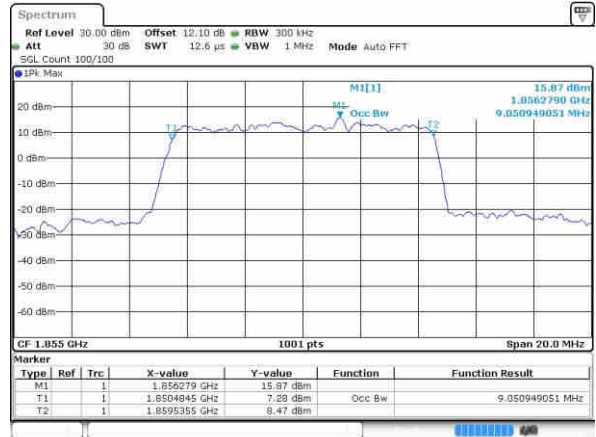


LTE Band 25

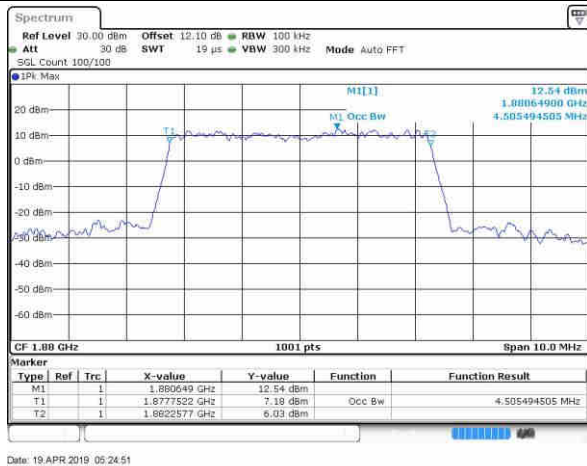
Lowest Channel / 5MHz / 64QAM



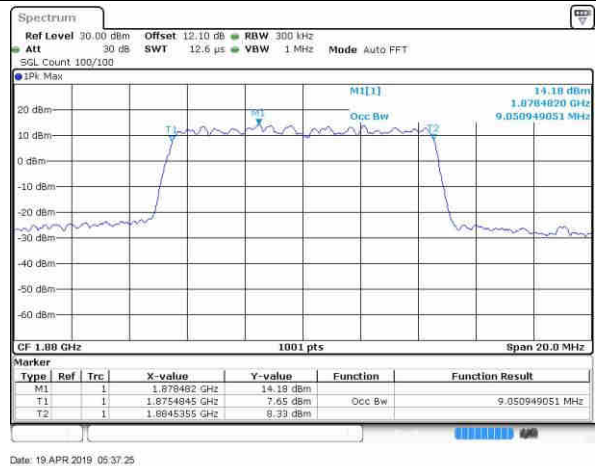
Lowest Channel / 10MHz / 64QAM



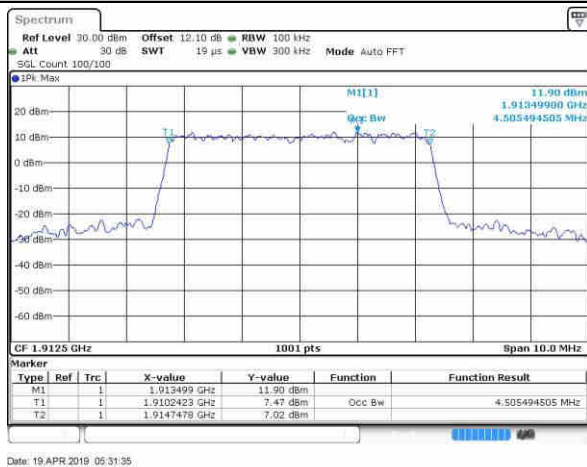
Middle Channel / 5MHz / 64QAM



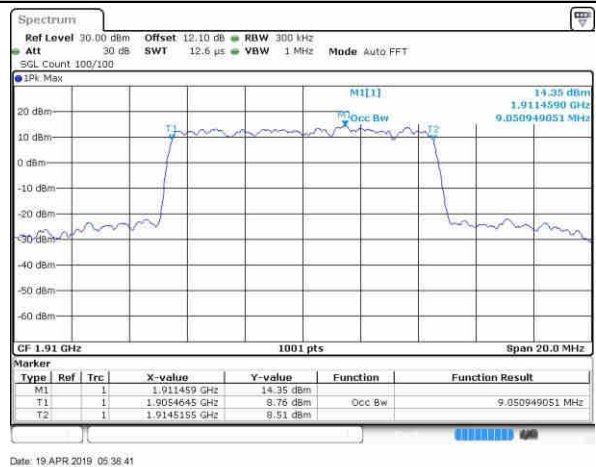
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



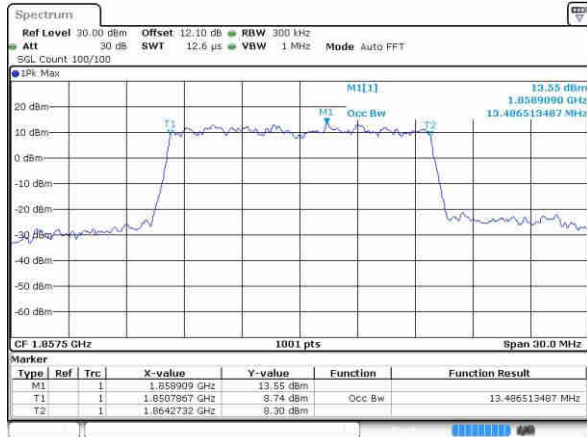
Highest Channel / 10MHz / 64QAM



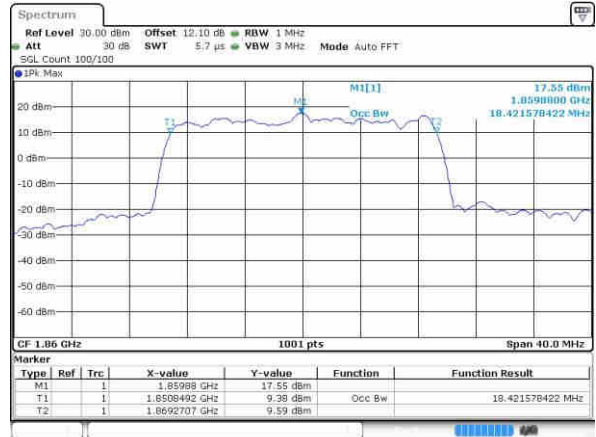


LTE Band 25

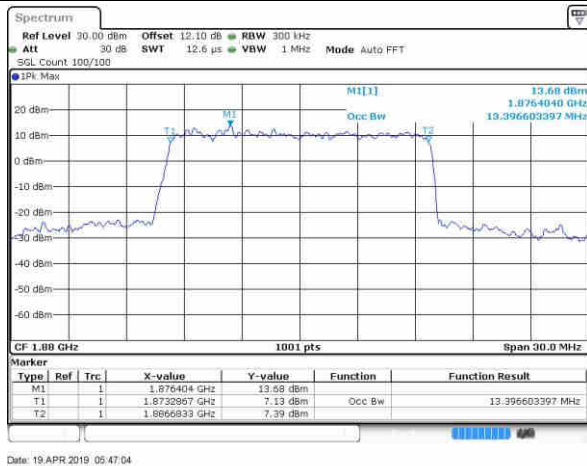
Lowest Channel / 15MHz / 64QAM



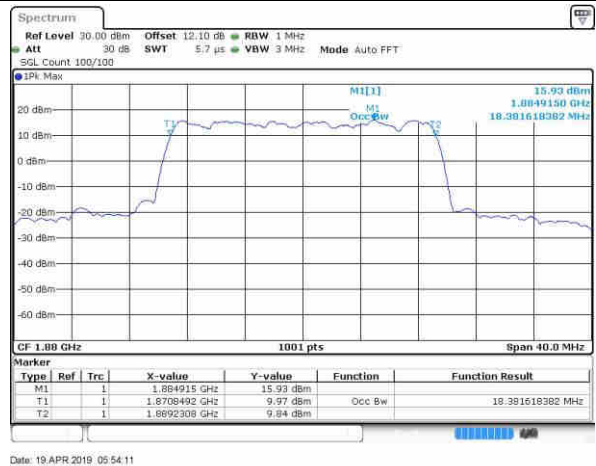
Lowest Channel / 20MHz / 64QAM



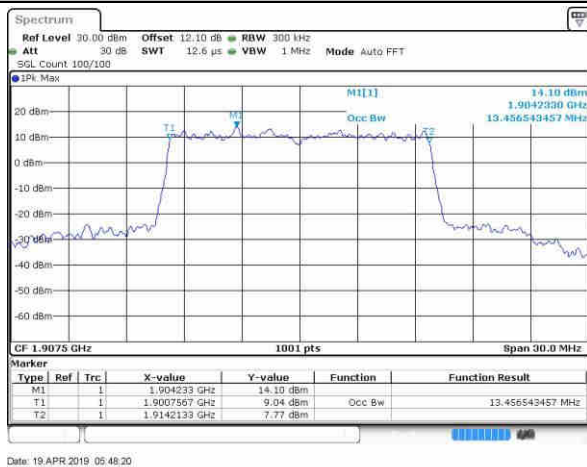
Middle Channel / 15MHz / 64QAM



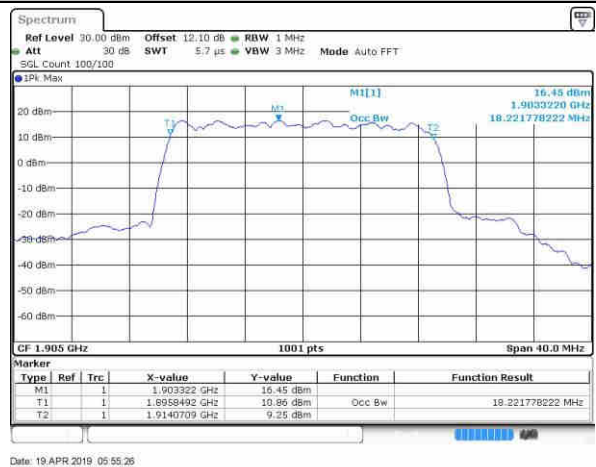
Middle Channel / 20MHz / 64QAM

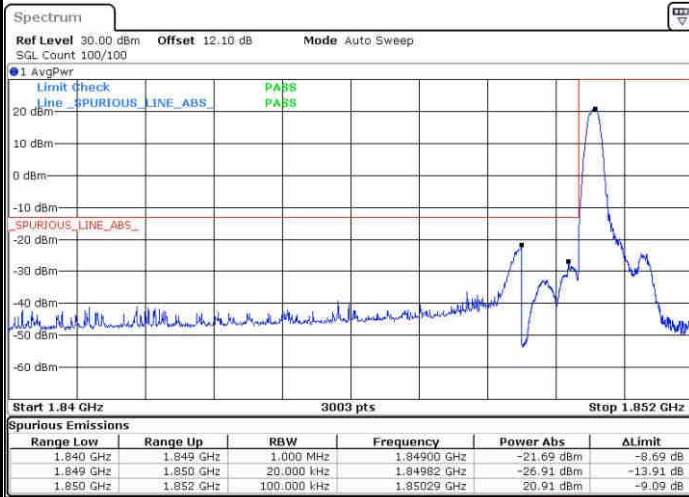
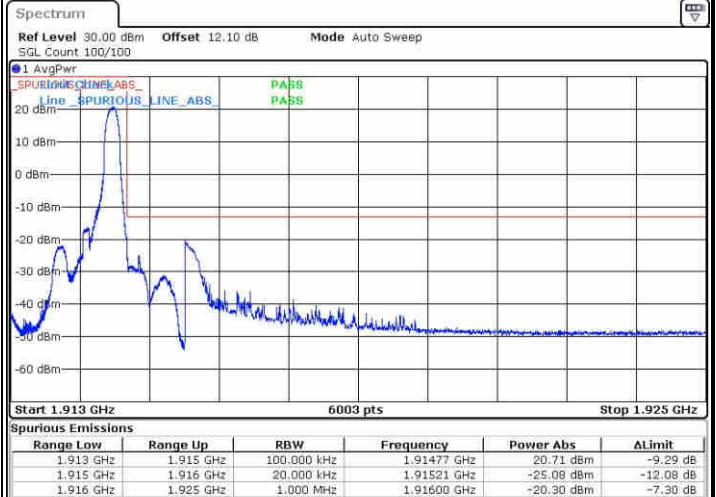
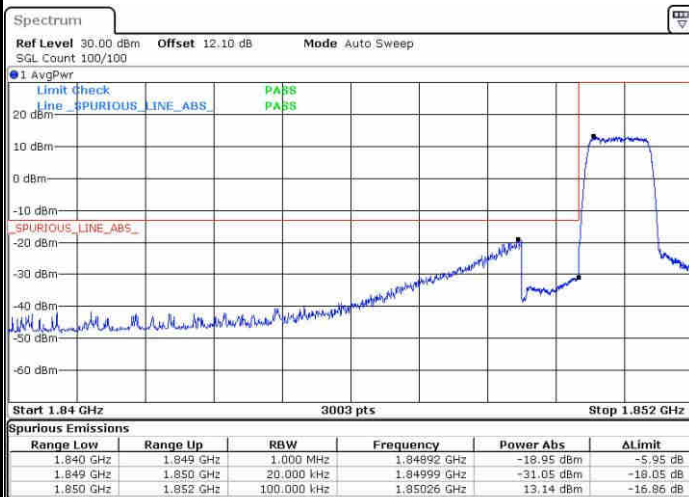
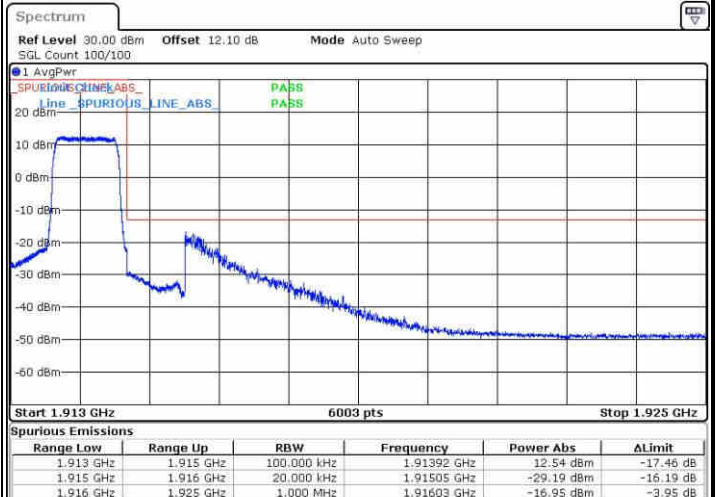


Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

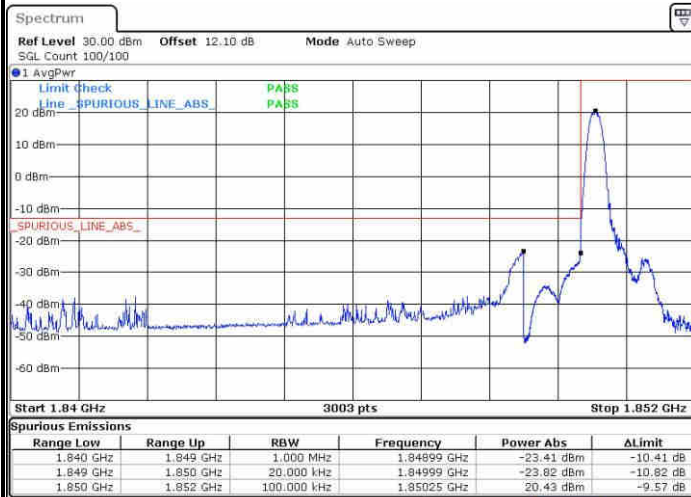


**Conducted Band Edge****LTE Band 25 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

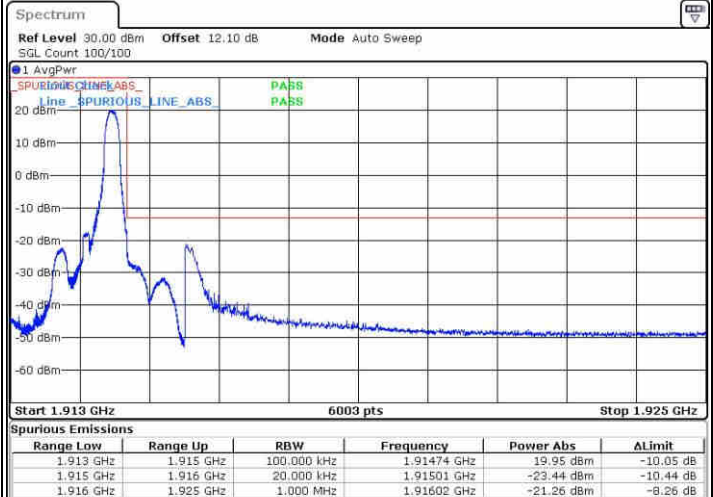


LTE Band 25 / 1.4MHz / 16QAM

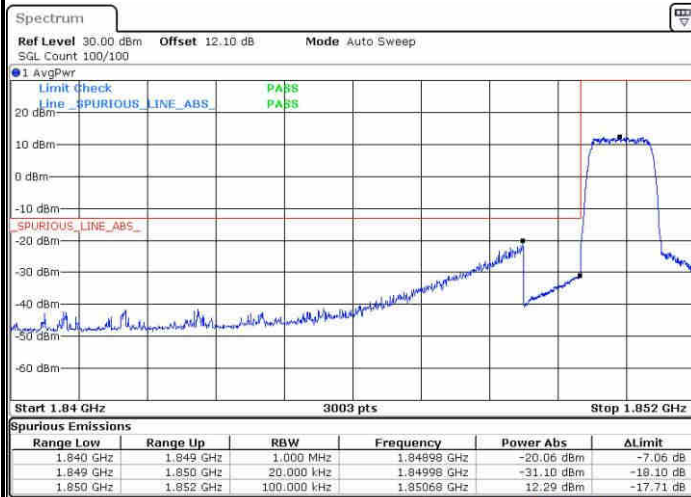
Lowest Band Edge / 1 RB



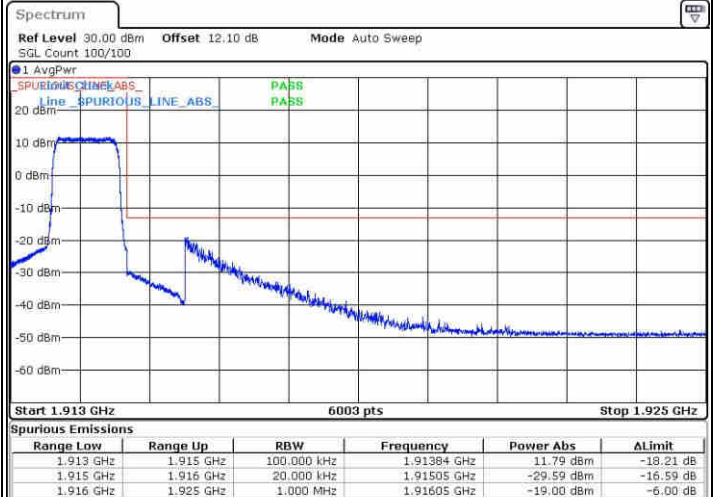
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



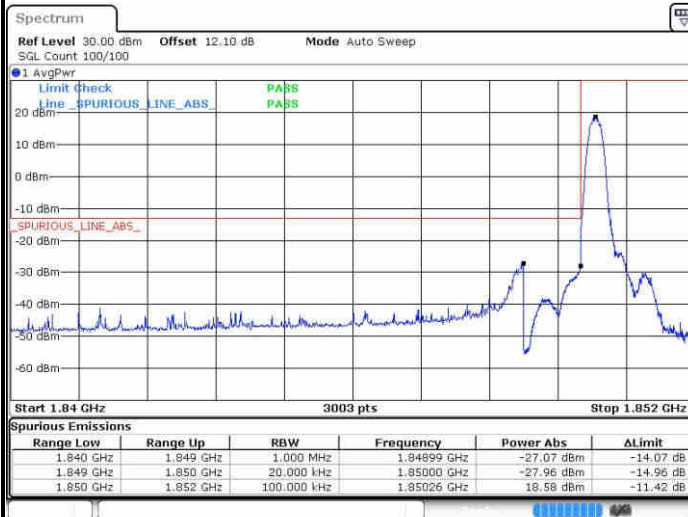
Highest Band Edge / Full RB



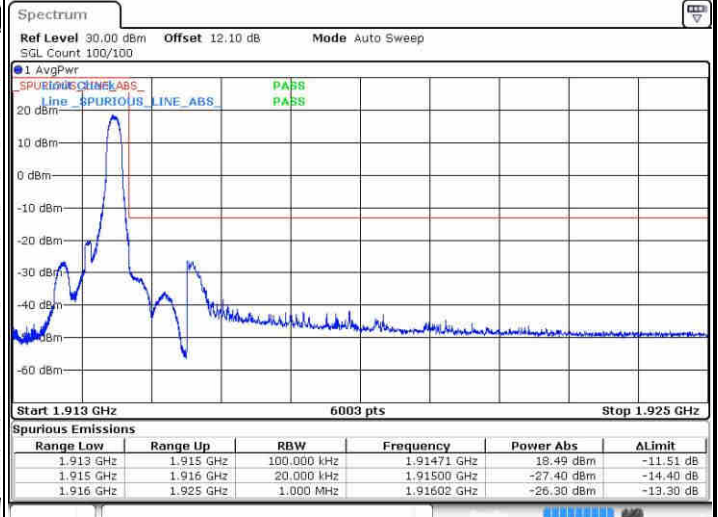


LTE Band 25 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



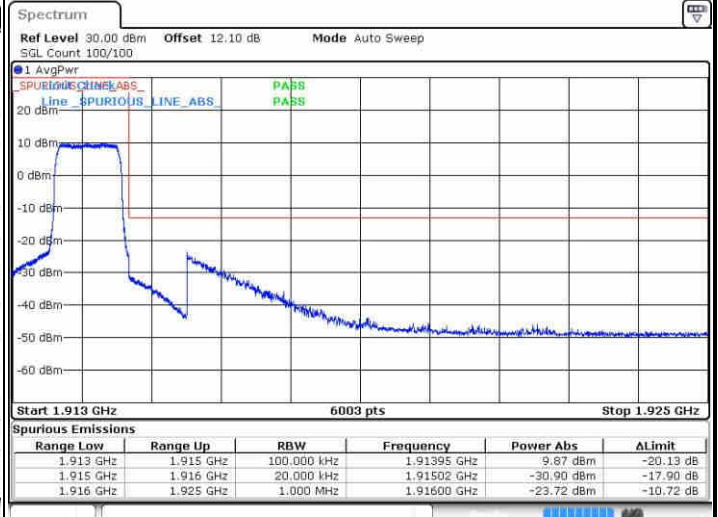
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



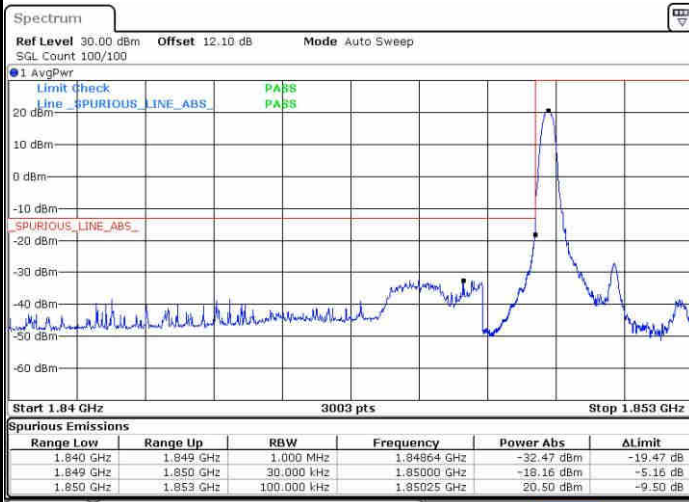
Highest Band Edge / Full RB



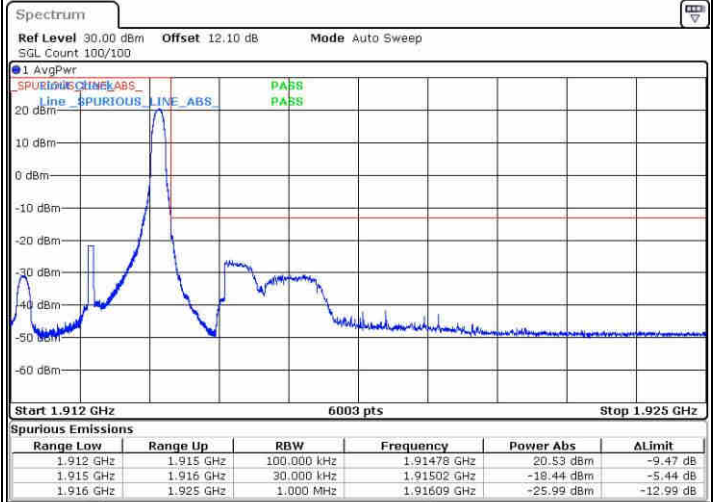


LTE Band 25 / 3MHz / QPSK

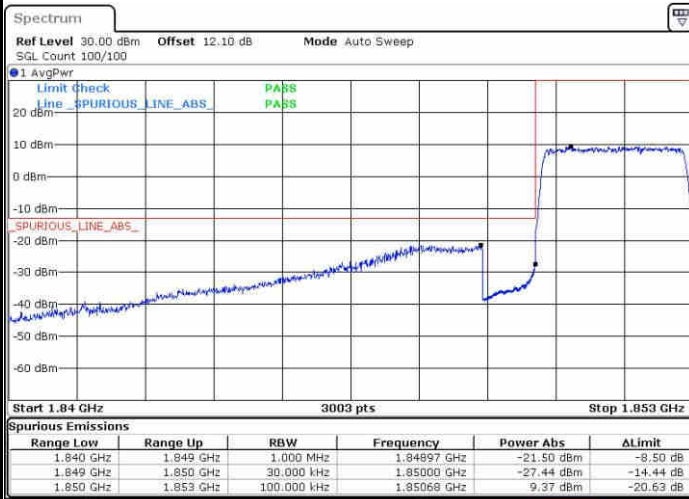
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

