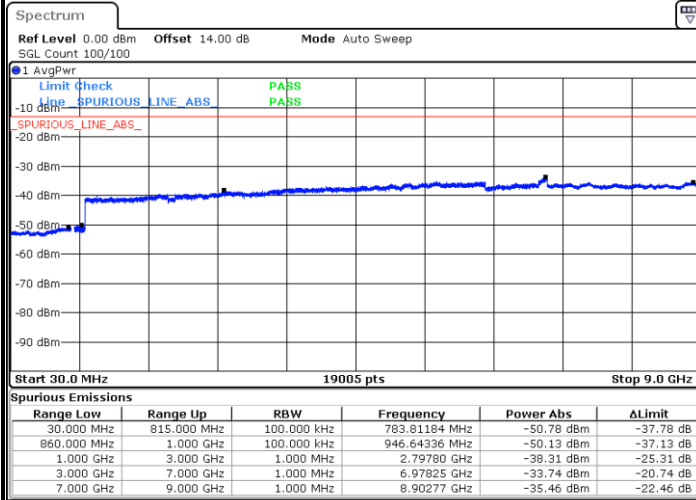




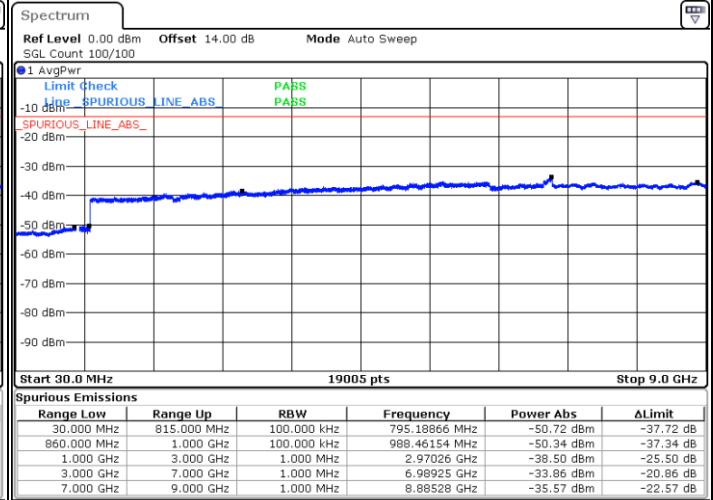
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



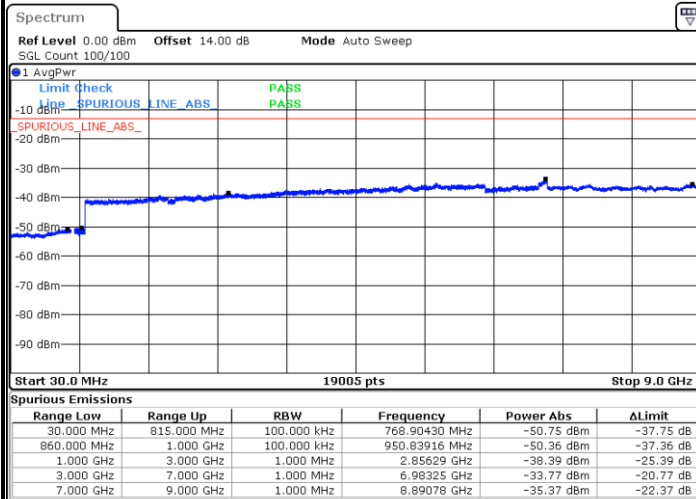
Date: 29.NOV.2019 08:24:17

Middle Channel / 64QAM



Date: 29.NOV.2019 08:30:49

Highest Channel / 64QAM



Date: 29.NOV.2019 08:31:40

**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	0.0012	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note: Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.45 V.



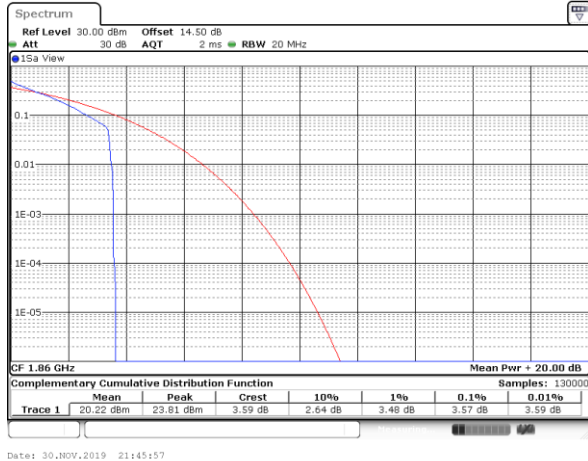
LTE Band 25

Peak-to-Average Ratio

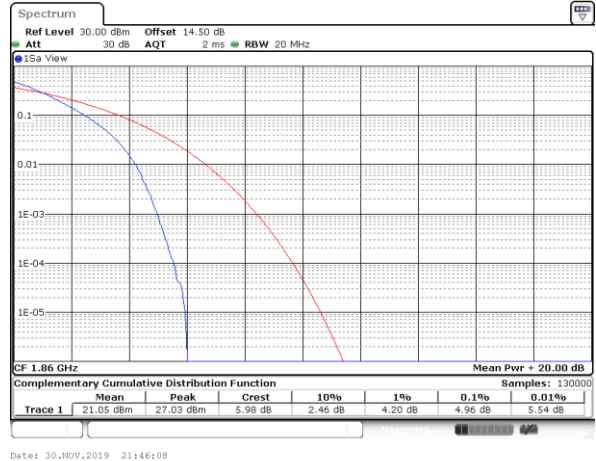
Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.96	5.48	5.97	PASS
Middle CH	3.71	5.10	5.48	5.94	
Highest CH	3.62	5.04	5.48	5.97	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.39	5.88	-	-	PASS
Middle CH	5.57	5.97	-	-	
Highest CH	5.51	5.91	-	-	

LTE Band 25 / 20MHz / QPSK

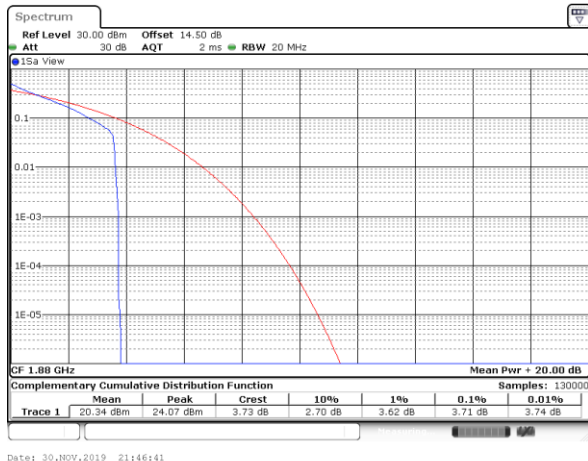
Lowest Channel / 1RB



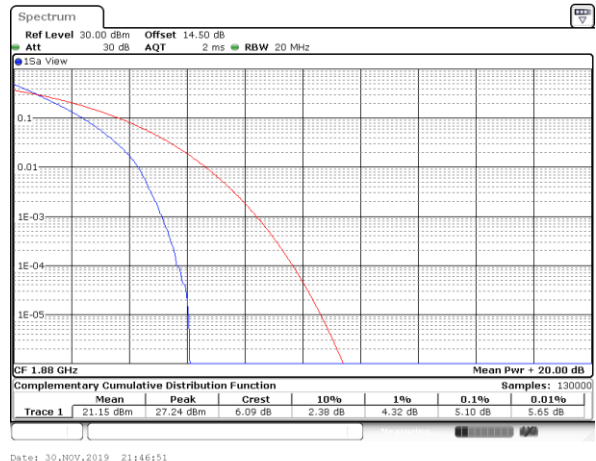
Lowest Channel / Full RB



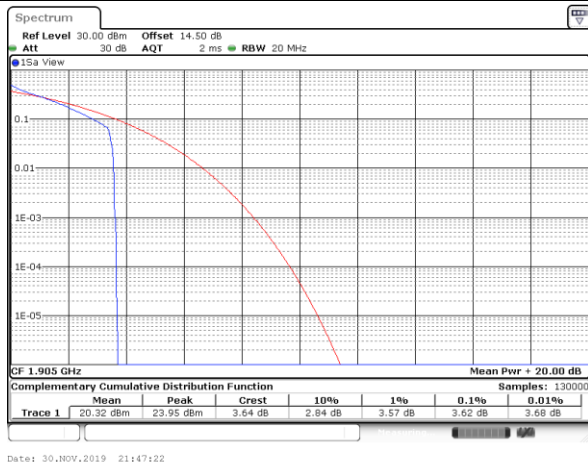
Middle Channel / 1RB



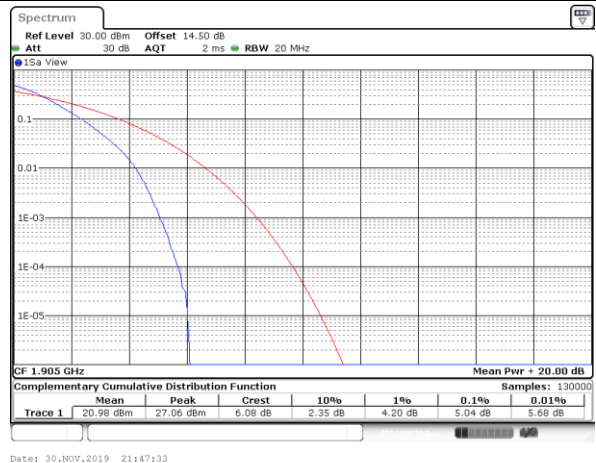
Middle Channel / Full RB



Highest Channel / 1RB



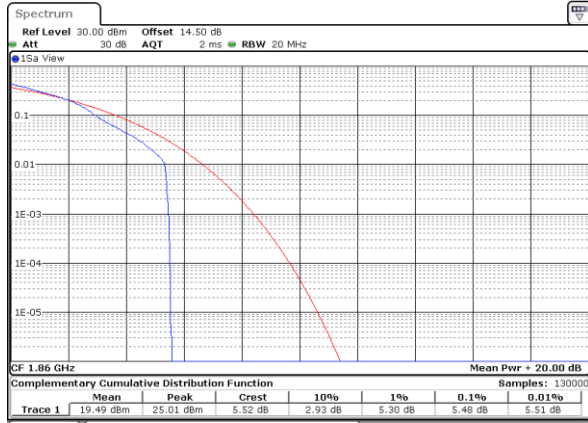
Highest Channel / Full RB



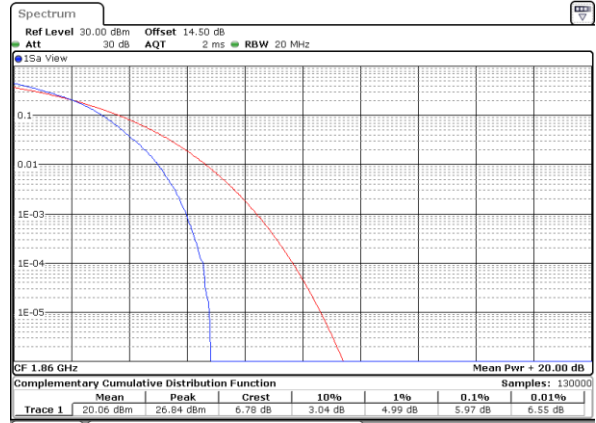


LTE Band 25 / 20MHz / 16QAM

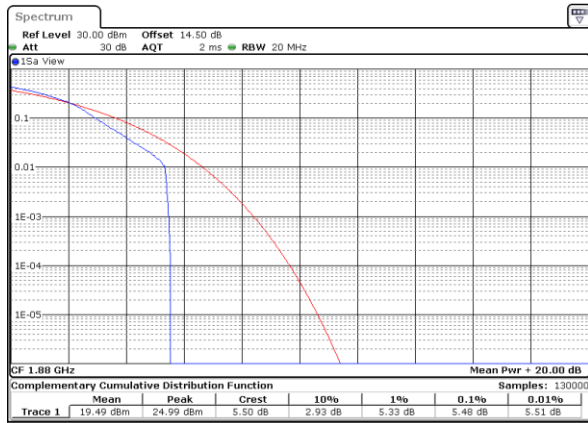
Lowest Channel / 1RB



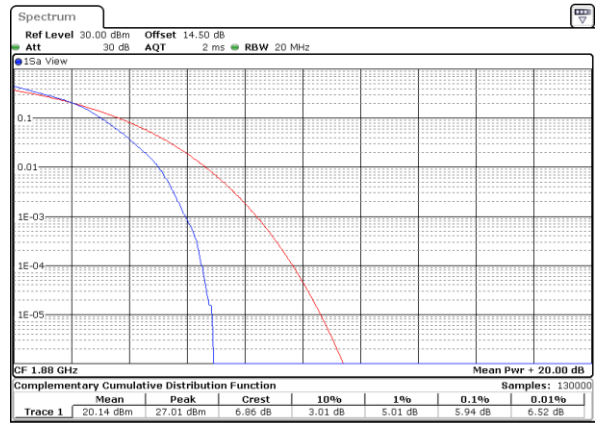
Lowest Channel / Full RB



Middle Channel / 1RB



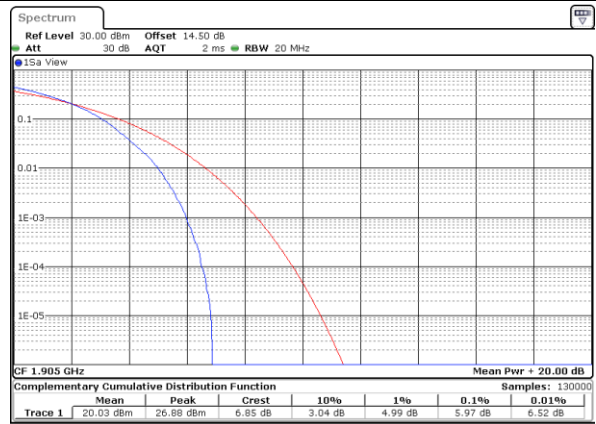
Middle Channel / Full RB



Highest Channel / 1RB



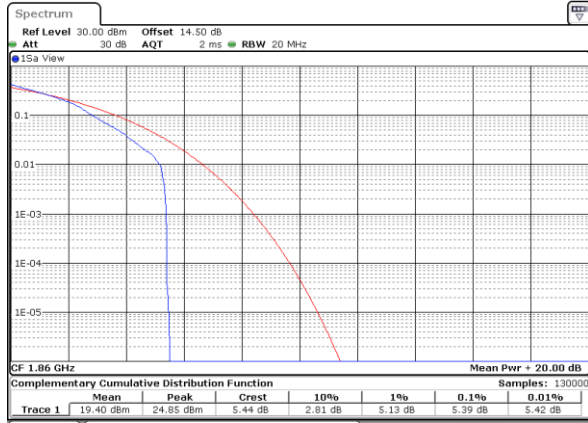
Highest Channel / Full RB



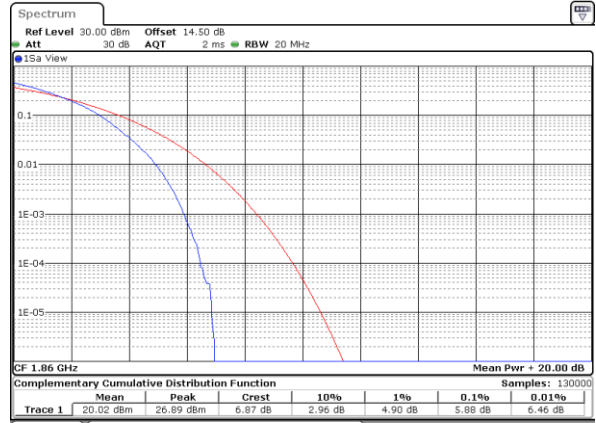


LTE Band 25 / 20MHz / 64QAM

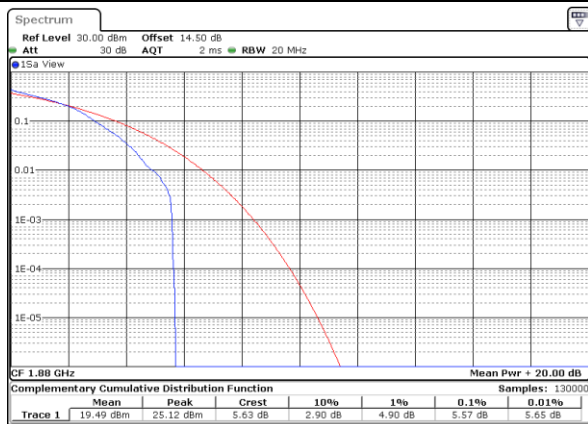
Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



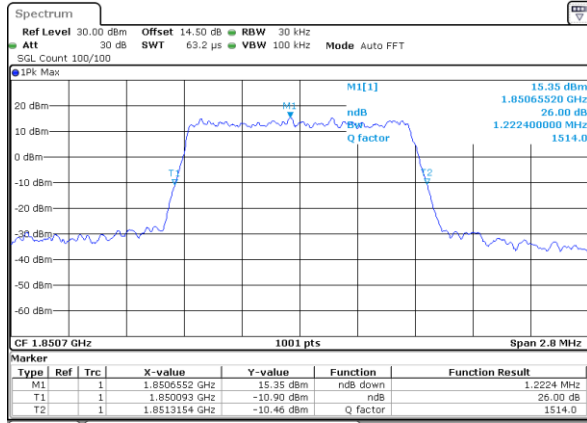
**26dB Bandwidth**

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	1.222	1.231	3.003	2.985	4.895	4.955	9.85	9.85	14.386	14.416	18.861	19.021
Middle CH	1.242	1.231	3.051	3.021	4.965	4.865	9.71	9.81	14.476	14.296	19.221	19.021
Highest CH	1.222	1.222	3.009	3.003	4.915	4.895	9.89	9.73	14.206	14.386	18.941	19.061
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.242	-	2.997	-	4.765	-	9.99	-	14.326	-	19.061	-
Middle CH	1.214	-	3.015	-	4.835	-	9.87	-	14.326	-	18.781	-
Highest CH	1.222	-	3.003	-	4.875	-	9.71	-	14.386	-	18.981	-



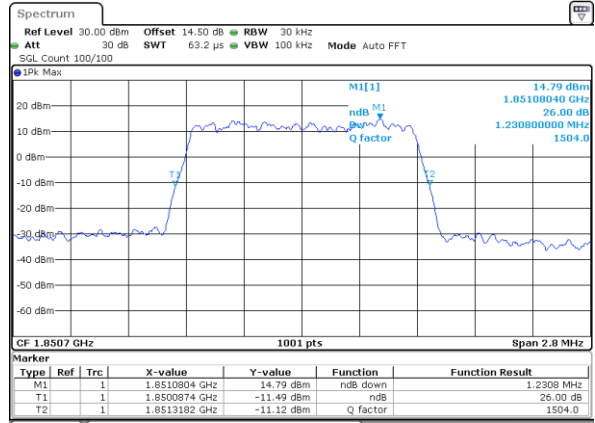
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



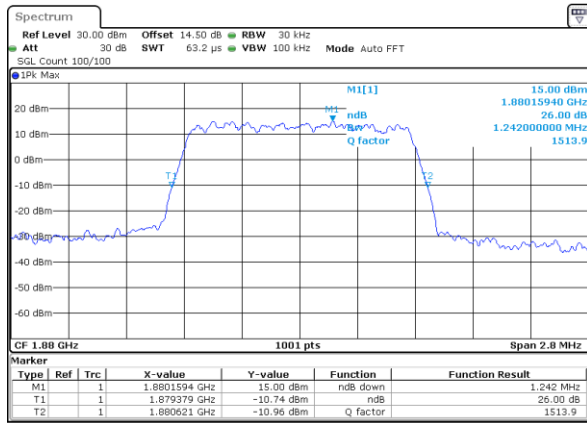
Date: 30,NOV,2019 21:11:27

Lowest Channel / 1.4MHz / 16QAM



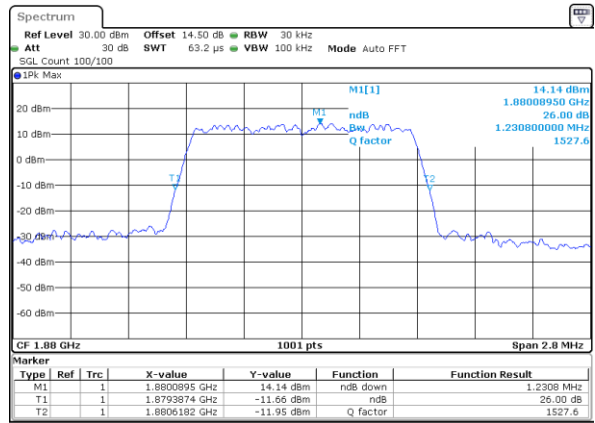
Date: 30,NOV,2019 21:11:38

Middle Channel / 1.4MHz / QPSK



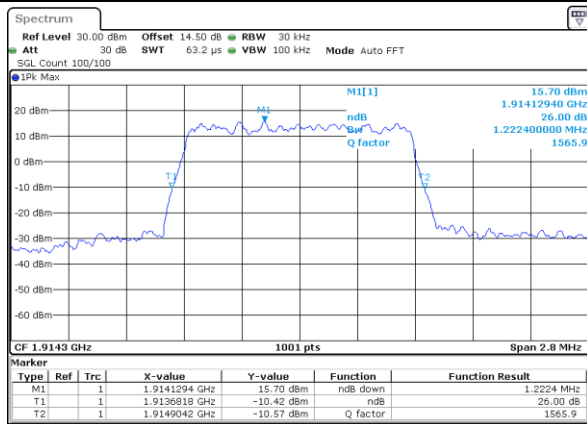
Date: 30,NOV,2019 21:17:46

Middle Channel / 1.4MHz / 16QAM



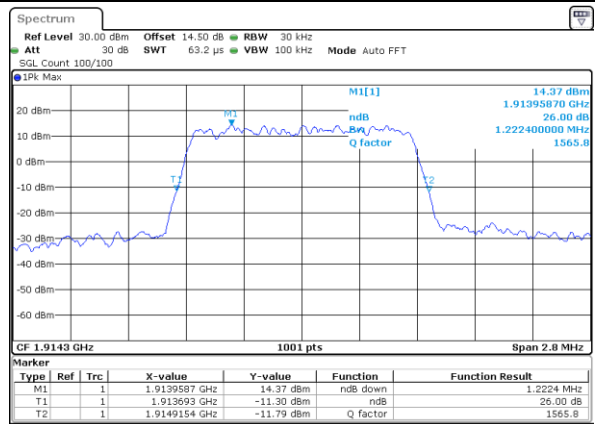
Date: 30,NOV,2019 21:17:57

Highest Channel / 1.4MHz / QPSK



Date: 30,NOV,2019 21:20:05

Highest Channel / 1.4MHz / 16QAM

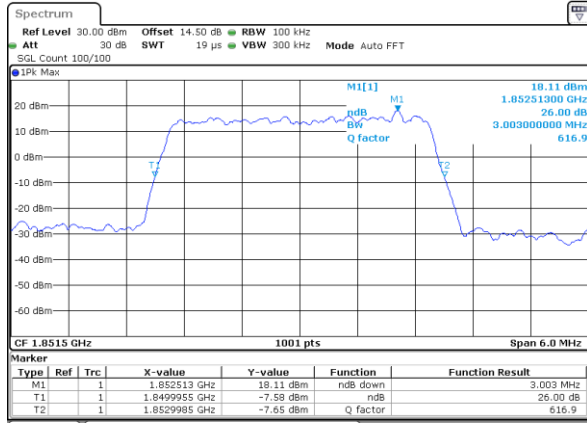


Date: 30,NOV,2019 21:19:54



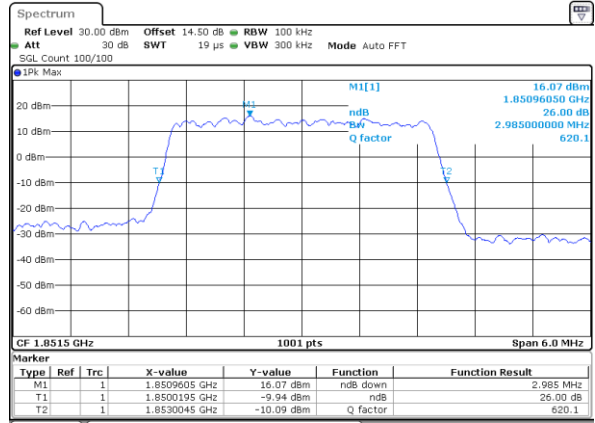
LTE Band 25

Lowest Channel / 3MHz / QPSK



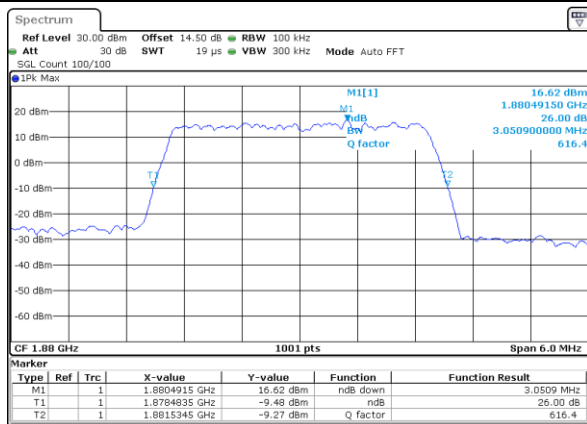
Date: 30,NOV,2019 19:30:12

Lowest Channel / 3MHz / 16QAM



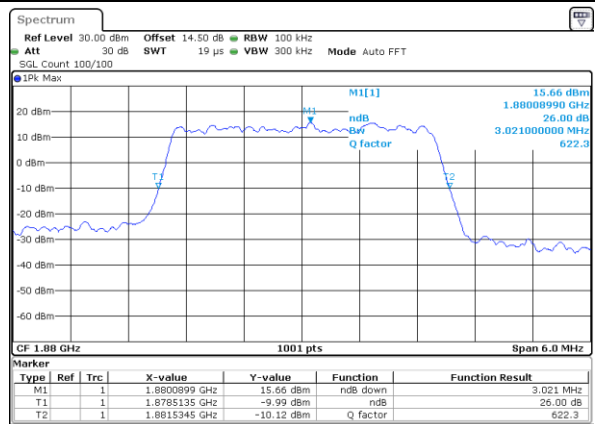
Date: 30,NOV,2019 19:30:23

Middle Channel / 3MHz / QPSK



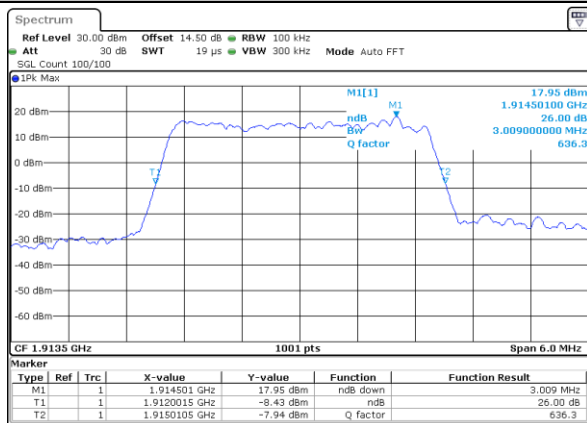
Date: 30,NOV,2019 19:36:19

Middle Channel / 3MHz / 16QAM



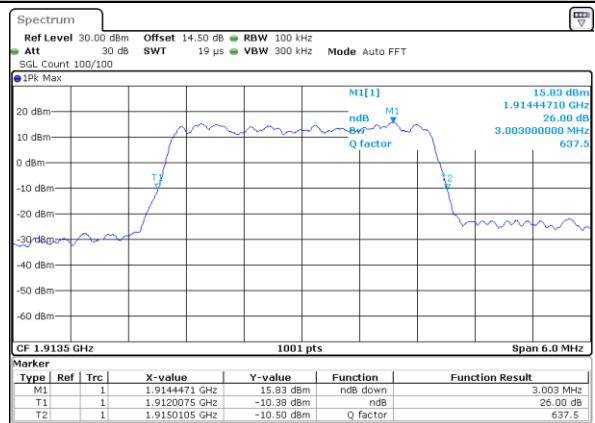
Date: 30,NOV,2019 19:36:30

Highest Channel / 3MHz / QPSK



Date: 30,NOV,2019 19:38:38

Highest Channel / 3MHz / 16QAM

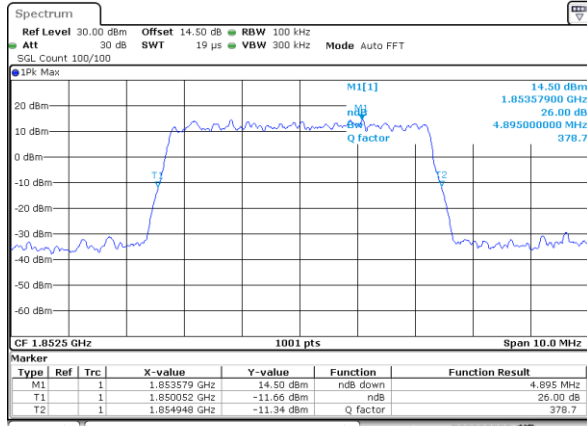


Date: 30,NOV,2019 19:38:27



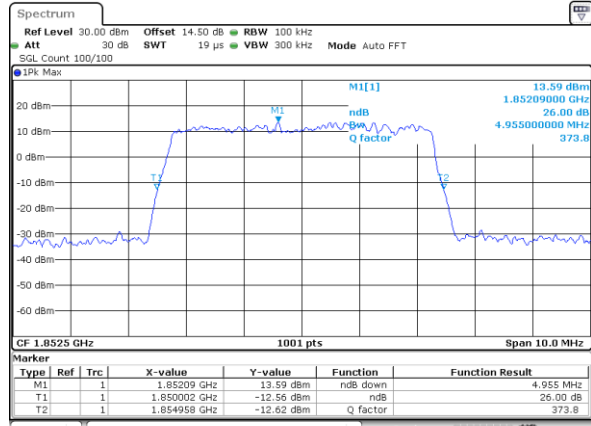
LTE Band 25

Lowest Channel / 5MHz / QPSK



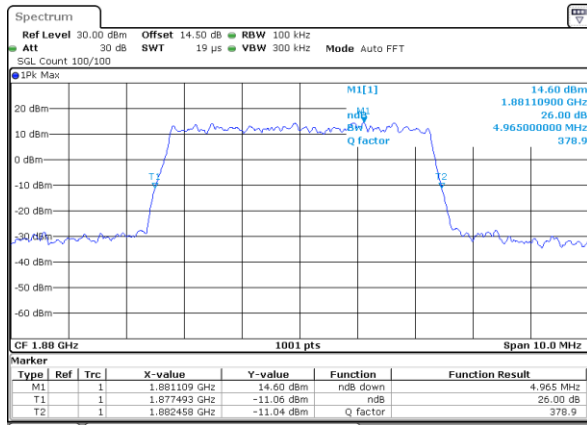
Date: 30,NOV,2019 19:44:34

Lowest Channel / 5MHz / 16QAM



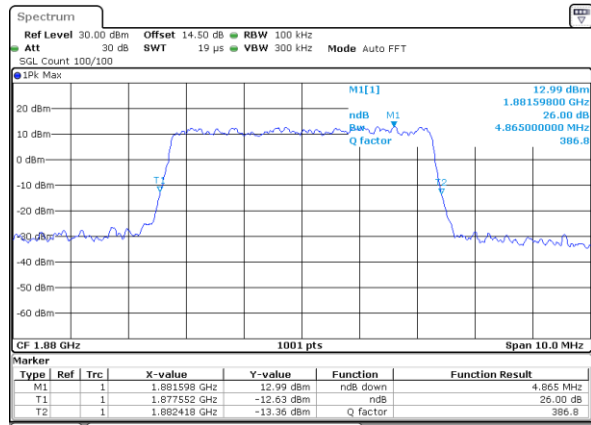
Date: 30,NOV,2019 19:44:45

Middle Channel / 5MHz / QPSK



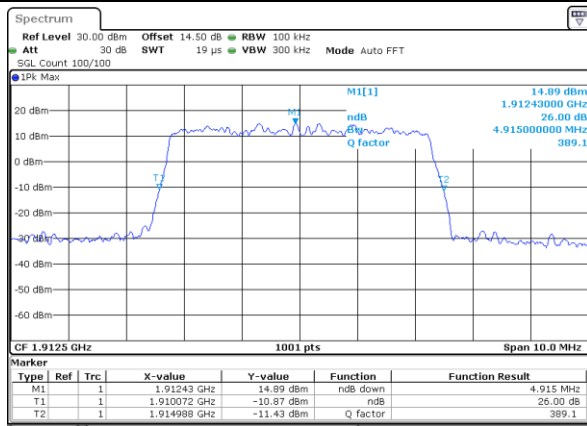
Date: 30,NOV,2019 19:50:41

Middle Channel / 5MHz / 16QAM



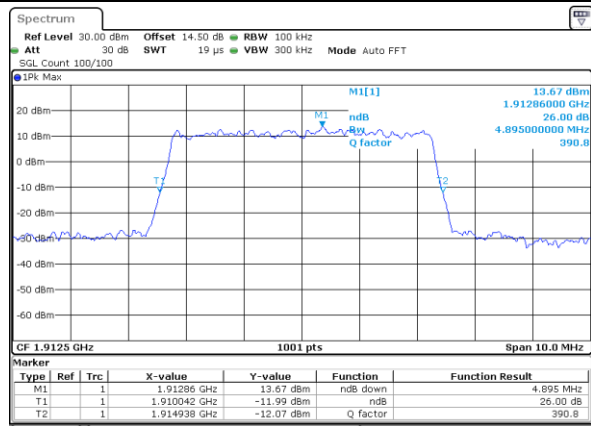
Date: 30,NOV,2019 19:50:52

Highest Channel / 5MHz / QPSK



Date: 30,NOV,2019 19:52:59

Highest Channel / 5MHz / 16QAM

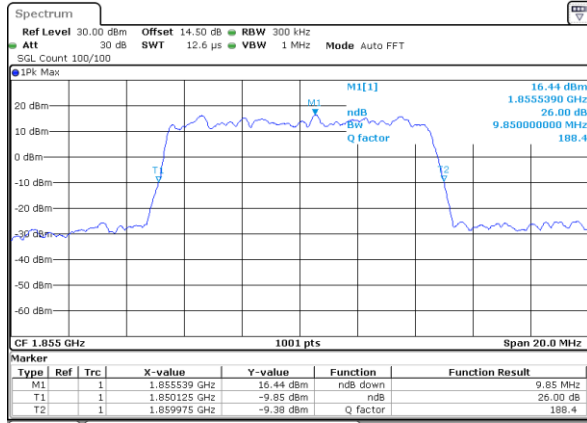


Date: 30,NOV,2019 19:52:48

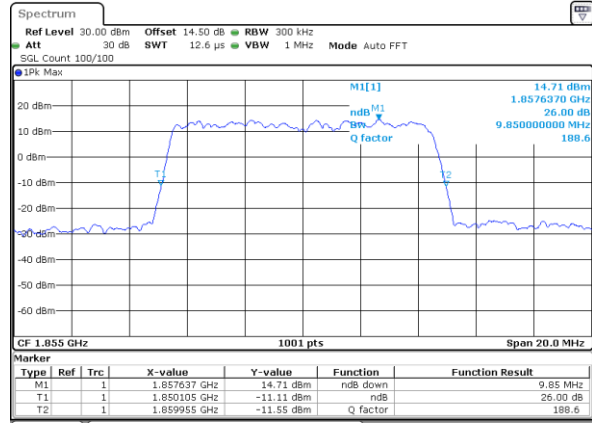


LTE Band 25

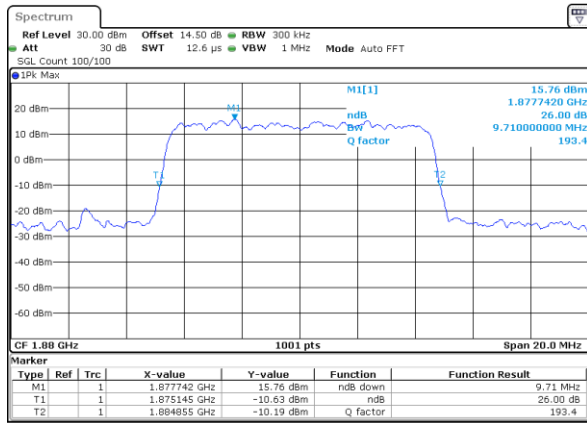
Lowest Channel / 10MHz / QPSK



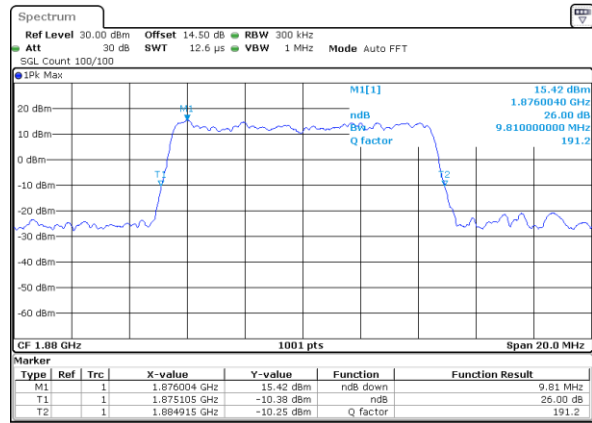
Lowest Channel / 10MHz / 16QAM



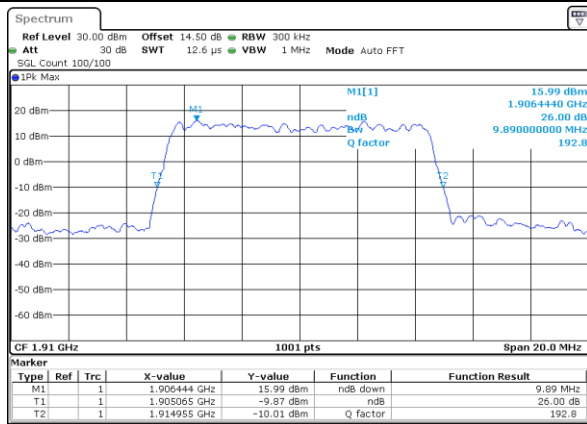
Middle Channel / 10MHz / QPSK



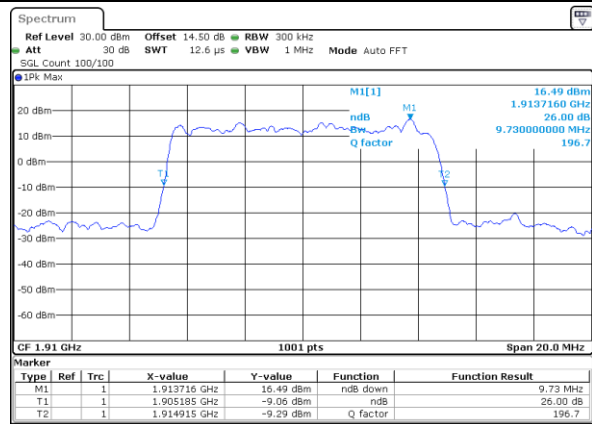
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



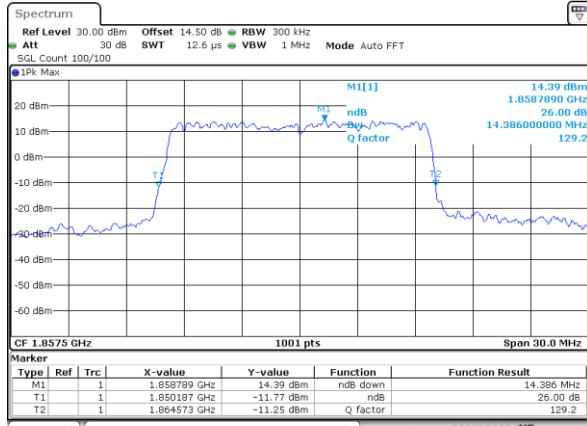
Highest Channel / 10MHz / 16QAM





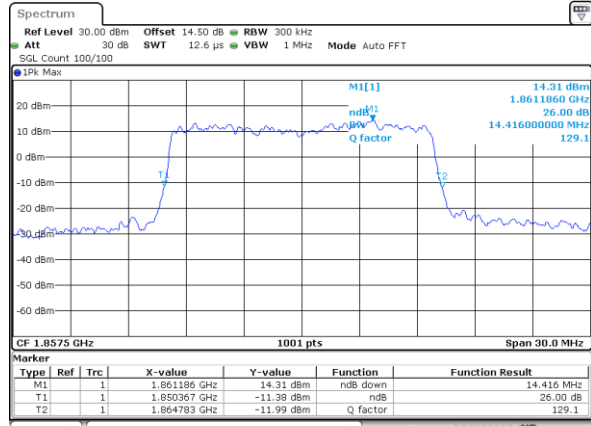
LTE Band 25

Lowest Channel / 15MHz / QPSK



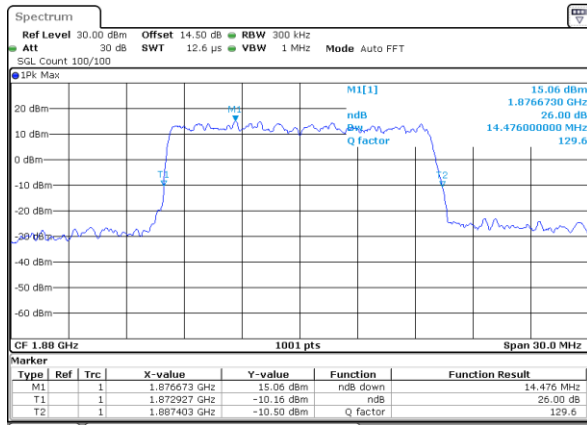
Date: 30,NOV,2019 20:34:45

Lowest Channel / 15MHz / 16QAM



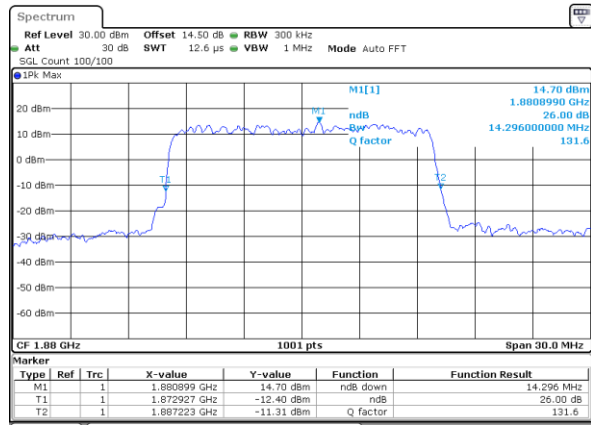
Date: 30,NOV,2019 20:34:57

Middle Channel / 15MHz / QPSK



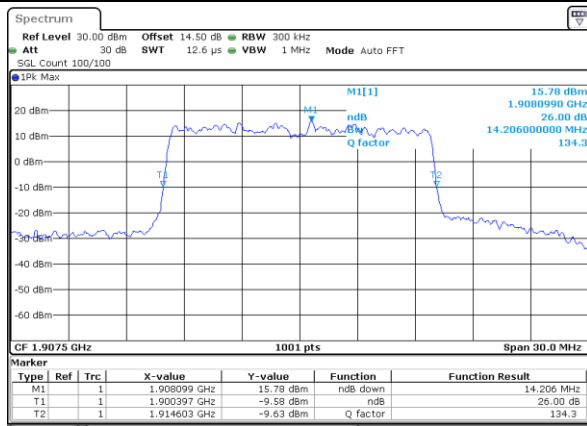
Date: 30,NOV,2019 20:40:52

Middle Channel / 15MHz / 16QAM



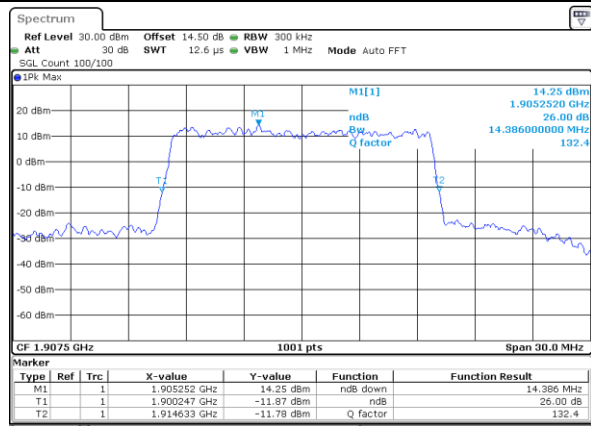
Date: 30,NOV,2019 20:41:03

Highest Channel / 15MHz / QPSK



Date: 30,NOV,2019 20:43:10

Highest Channel / 15MHz / 16QAM

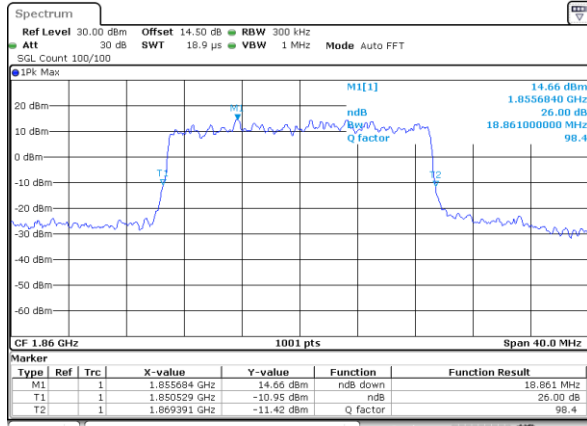


Date: 30,NOV,2019 20:42:59

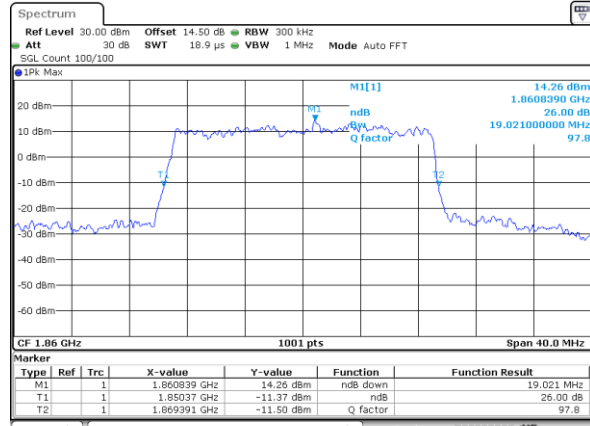


LTE Band 25

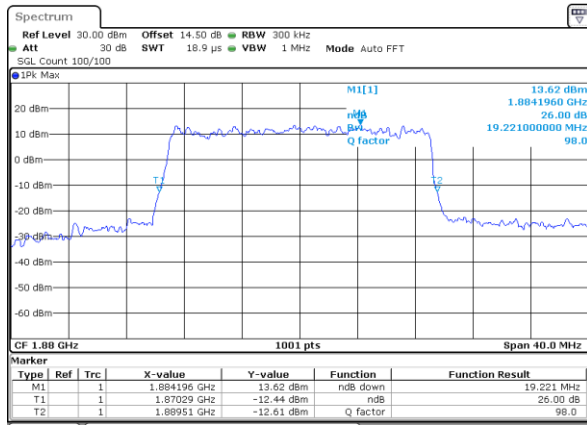
Lowest Channel / 20MHz / QPSK



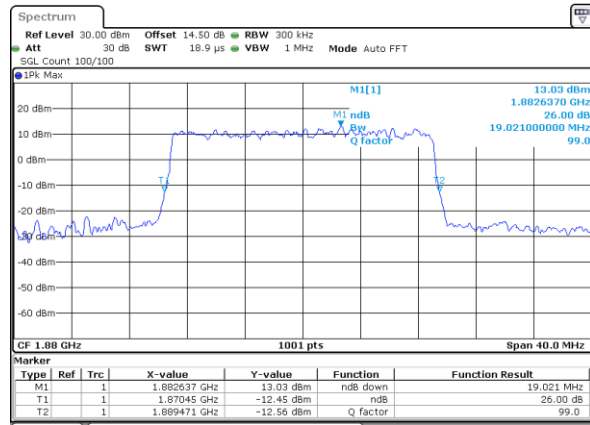
Lowest Channel / 20MHz / 16QAM



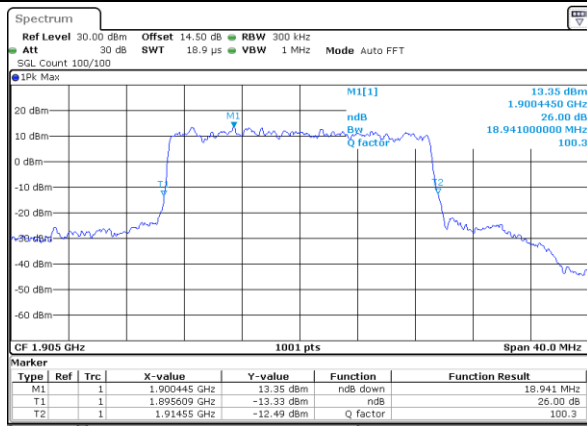
Middle Channel / 20MHz / QPSK



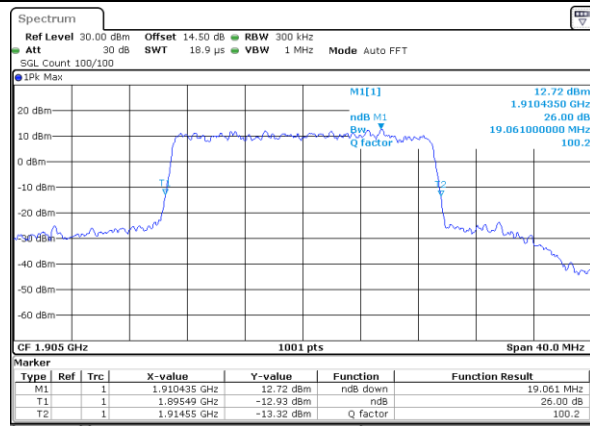
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



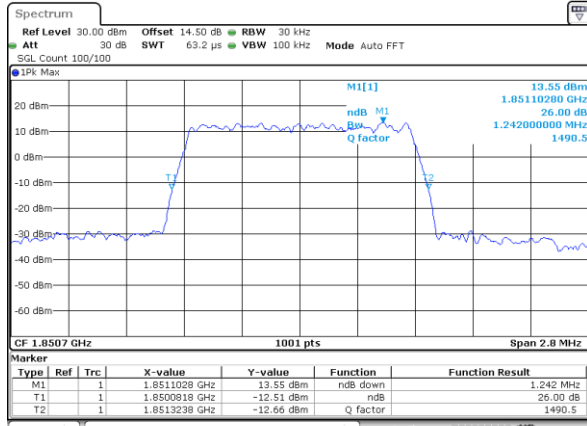
Highest Channel / 20MHz / 16QAM





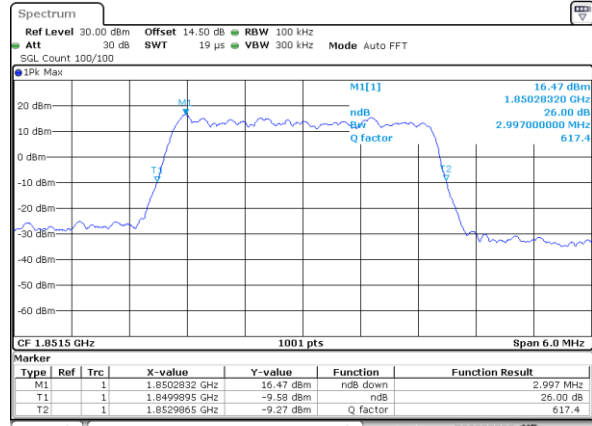
LTE Band 25

Lowest Channel / 1.4MHz / 64QAM



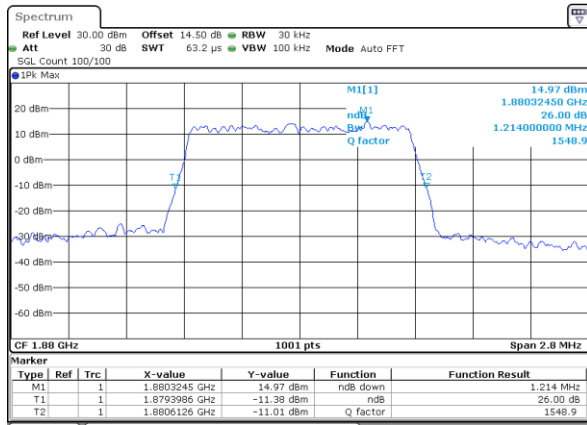
Date: 30,NOV,2019 21:34:47

Lowest Channel / 3MHz / 64QAM



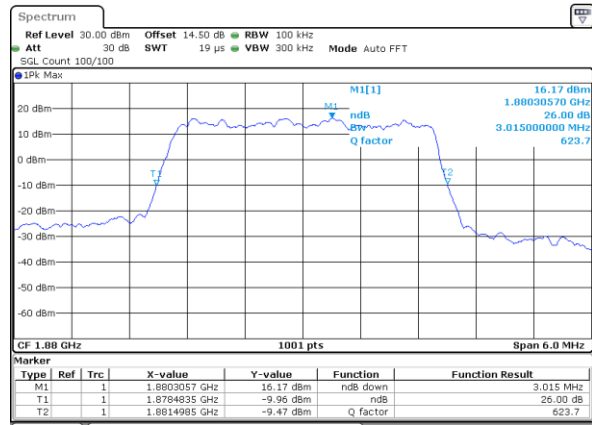
Date: 30,NOV,2019 19:22:49

Middle Channel / 1.4MHz / 64QAM



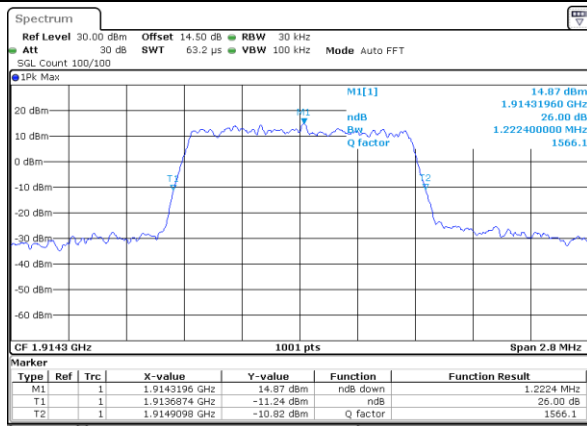
Date: 30,NOV,2019 21:38:28

Middle Channel / 3MHz / 64QAM



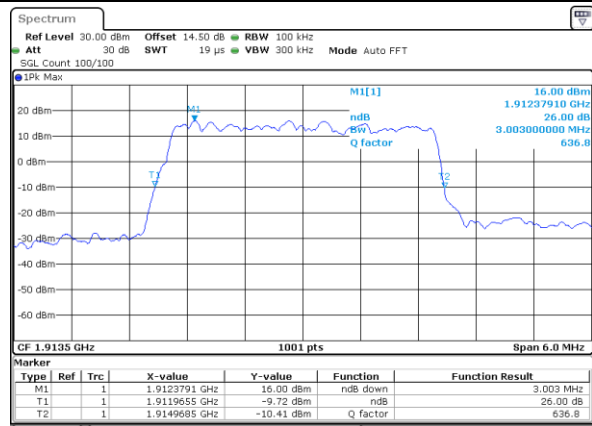
Date: 30,NOV,2019 19:25:53

Highest Channel / 1.4MHz / 64QAM



Date: 30,NOV,2019 21:40:04

Highest Channel / 3MHz / 64QAM

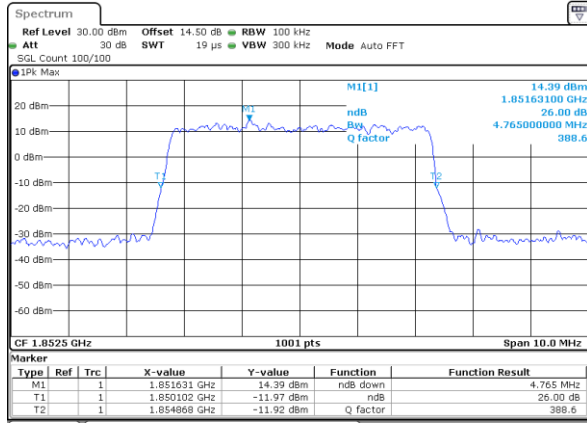


Date: 30,NOV,2019 19:26:56



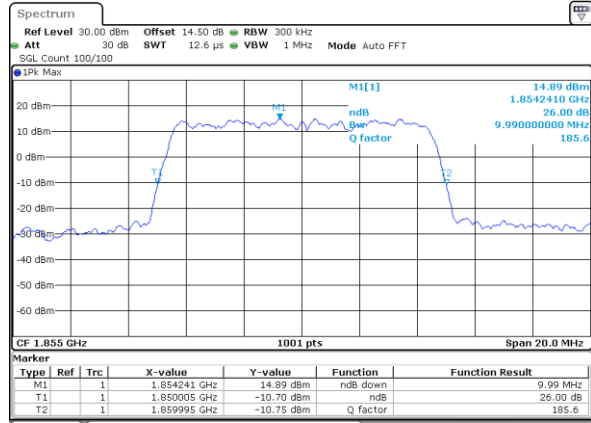
LTE Band 25

Lowest Channel / 5MHz / 64QAM



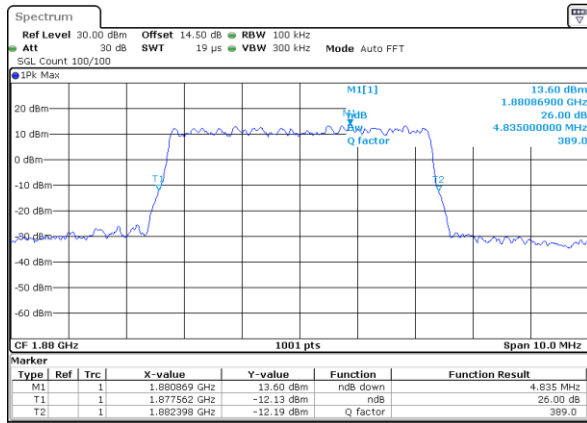
Date: 30,NOV,2019 19:58:43

Lowest Channel / 10MHz / 64QAM



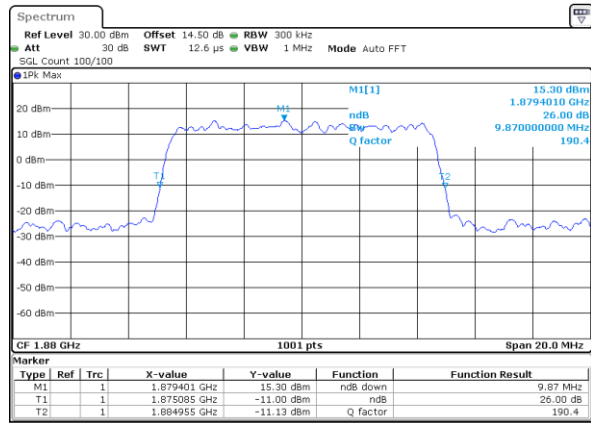
Date: 30,NOV,2019 20:12:13

Middle Channel / 5MHz / 64QAM



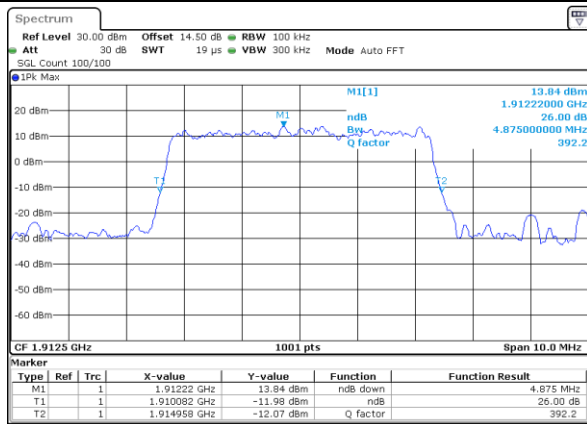
Date: 30,NOV,2019 20:01:46

Middle Channel / 10MHz / 64QAM



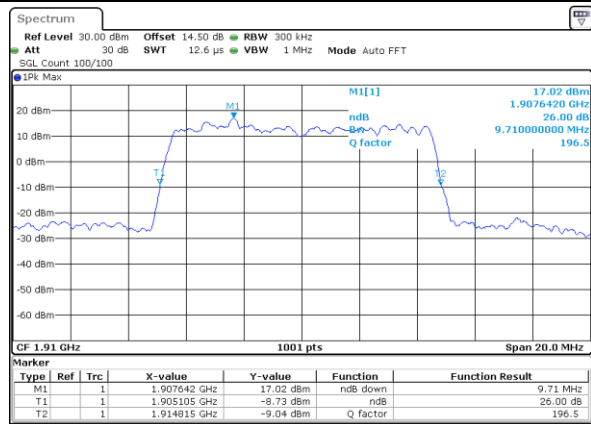
Date: 30,NOV,2019 20:12:16

Highest Channel / 5MHz / 64QAM



Date: 30,NOV,2019 20:02:49

Highest Channel / 10MHz / 64QAM

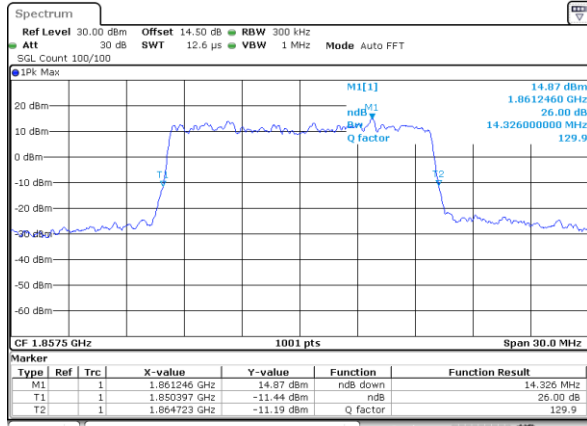


Date: 30,NOV,2019 20:12:20



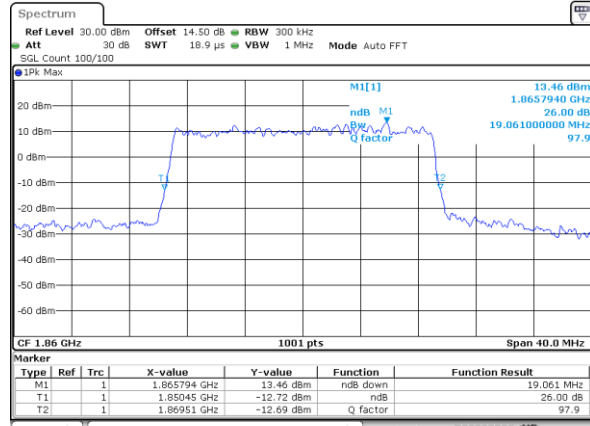
LTE Band 25

Lowest Channel / 15MHz / 64QAM



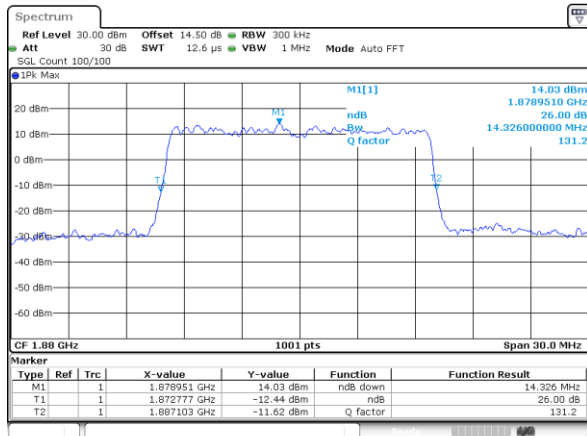
Date: 30,NOV,2019 20:27:124

Lowest Channel / 20MHz / 64QAM



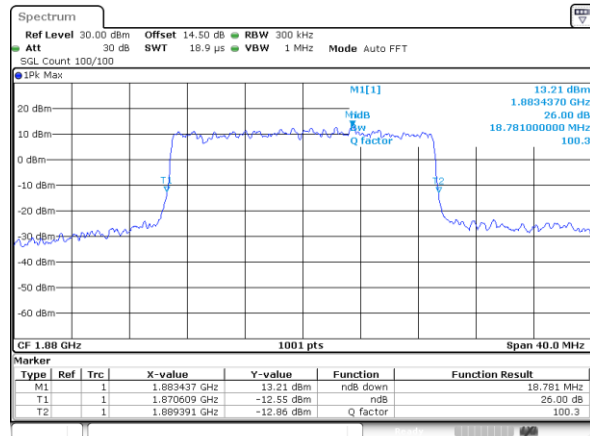
Date: 30,NOV,2019 21:03:115

Middle Channel / 15MHz / 64QAM



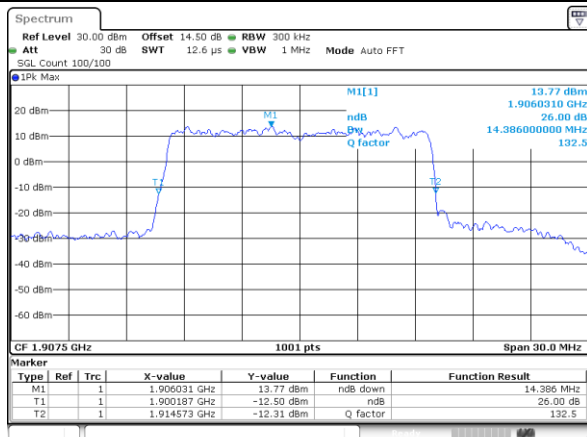
Date: 30,NOV,2019 20:38:27

Middle Channel / 20MHz / 64QAM



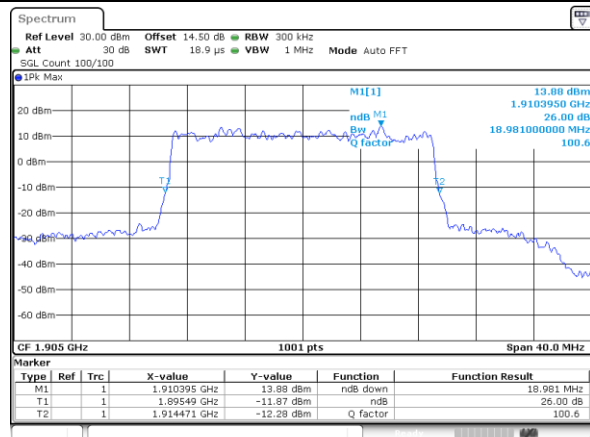
Date: 30,NOV,2019 21:06:119

Highest Channel / 15MHz / 64QAM



Date: 30,NOV,2019 20:31:30

Highest Channel / 20MHz / 64QAM



Date: 30,NOV,2019 21:07:122

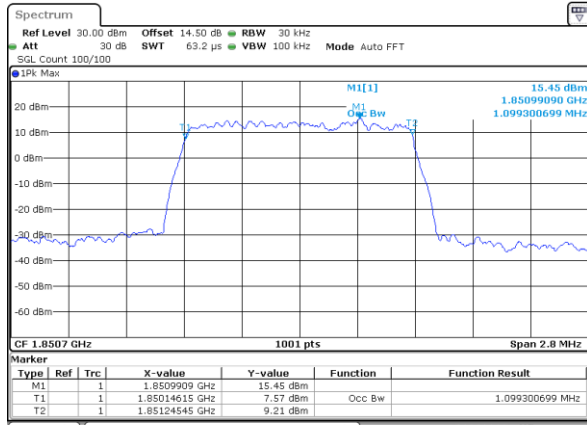
**Occupied Bandwidth**

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	1.10	1.09	2.71	2.73	4.50	4.51	9.05	9.01	13.40	13.55	17.86	17.90
Middle CH	1.09	1.09	2.72	2.73	4.49	4.47	9.09	8.99	13.43	13.43	17.90	17.94
Highest CH	1.09	1.09	2.72	2.73	4.50	4.51	9.07	8.97	13.49	13.46	17.98	17.86
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	-	2.73	-	4.47	-	8.99	-	13.49	-	17.82	-
Middle CH	1.09	-	2.73	-	4.49	-	8.99	-	13.43	-	17.94	-
Highest CH	1.09	-	2.72	-	4.49	-	8.99	-	13.43	-	17.90	-



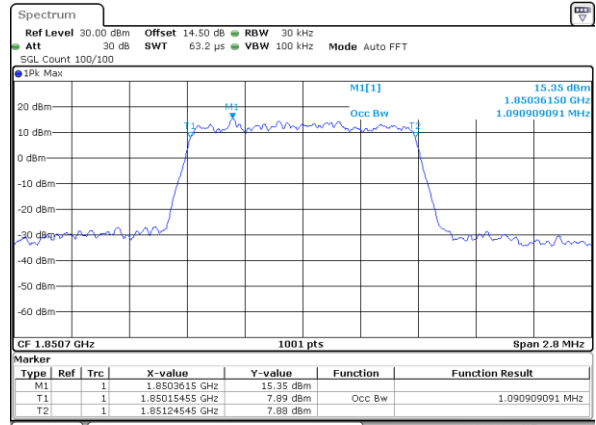
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



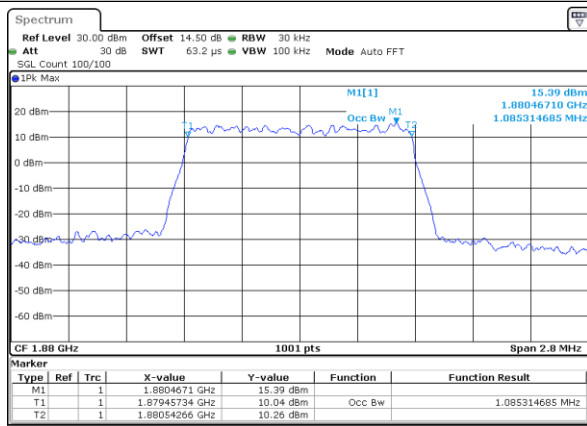
Date: 30.NOV.2019 21:11:05

Lowest Channel / 1.4MHz / 16QAM



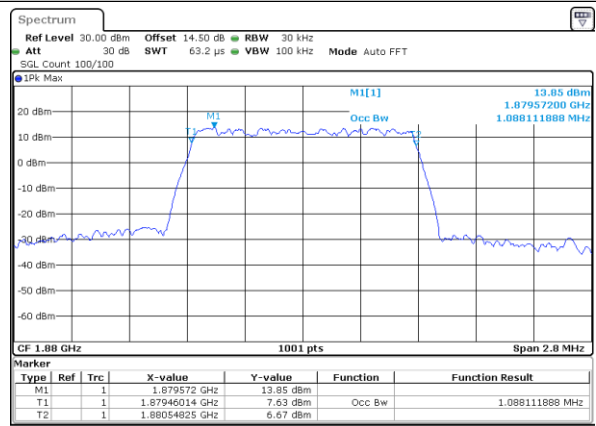
Date: 30.NOV.2019 21:11:16

Middle Channel / 1.4MHz / QPSK



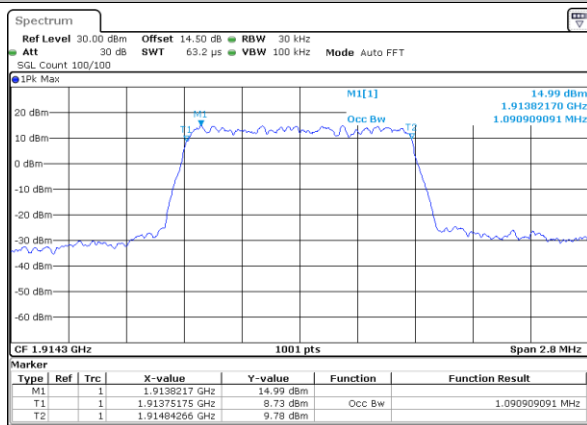
Date: 30.NOV.2019 21:17:24

Middle Channel / 1.4MHz / 16QAM



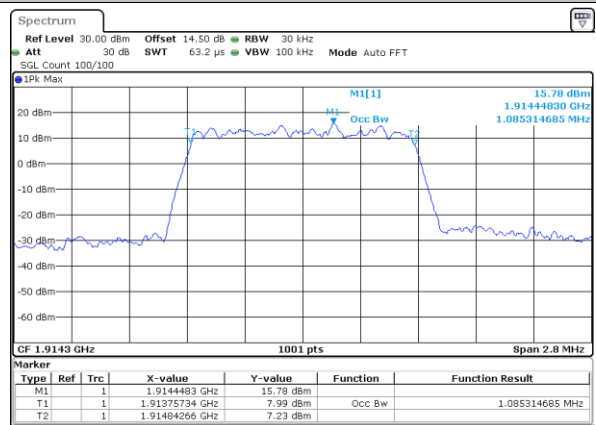
Date: 30.NOV.2019 21:17:35

Highest Channel / 1.4MHz / QPSK



Date: 30.NOV.2019 21:19:32

Highest Channel / 1.4MHz / 16QAM

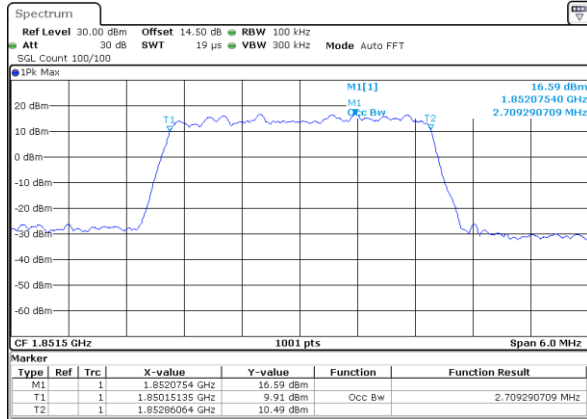


Date: 30.NOV.2019 21:19:43



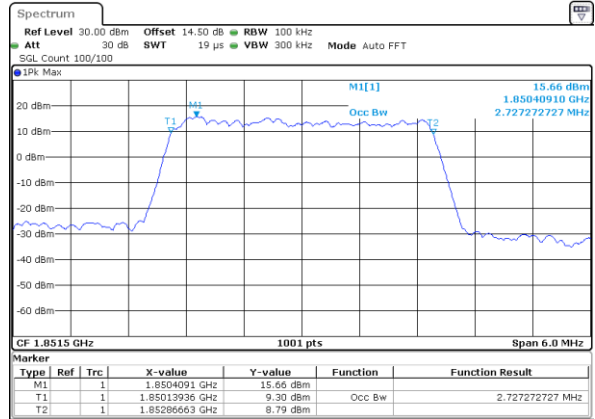
LTE Band 25

Lowest Channel / 3MHz / QPSK



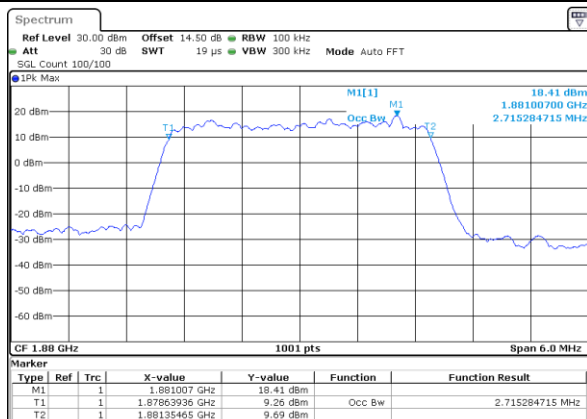
Date: 30,NOV,2019 19:29:49

Lowest Channel / 3MHz / 16QAM



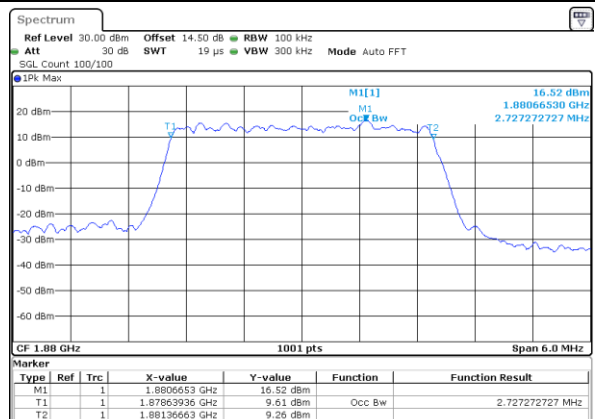
Date: 30,NOV,2019 19:30:01

Middle Channel / 3MHz / QPSK



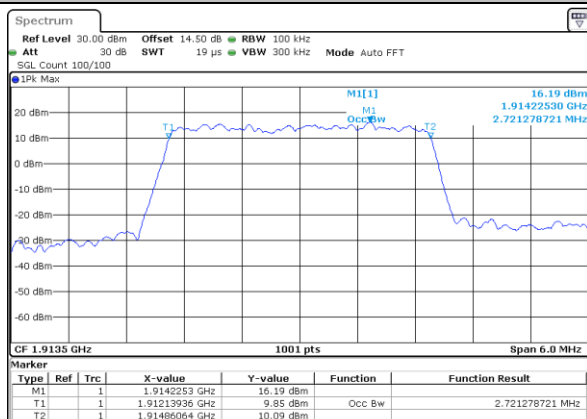
Date: 30,NOV,2019 19:35:57

Middle Channel / 3MHz / 16QAM



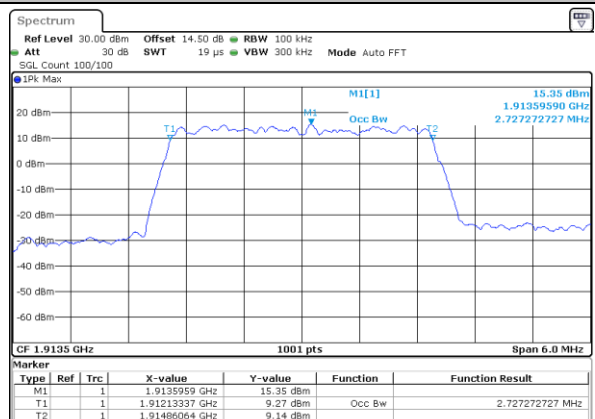
Date: 30,NOV,2019 19:36:08

Highest Channel / 3MHz / QPSK



Date: 30,NOV,2019 19:38:05

Highest Channel / 3MHz / 16QAM

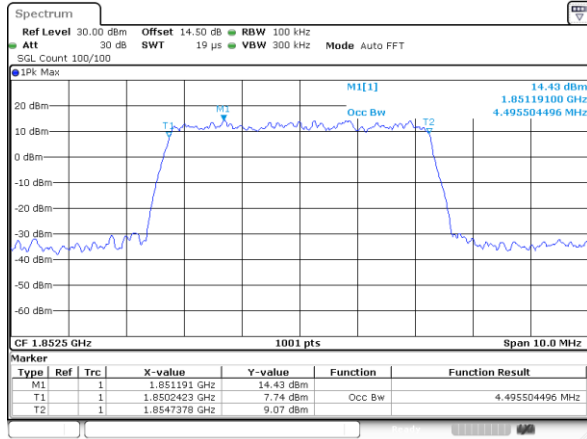


Date: 30,NOV,2019 19:38:16

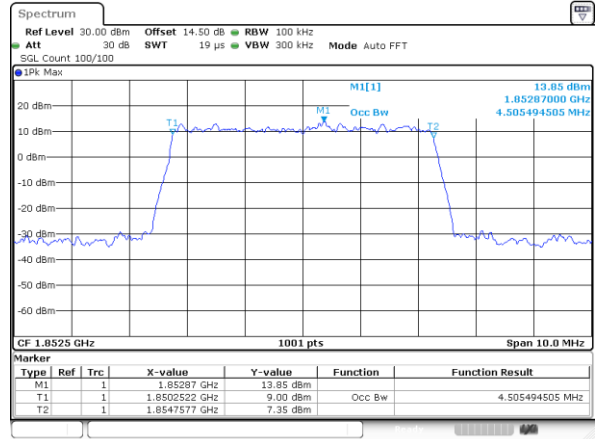


LTE Band 25

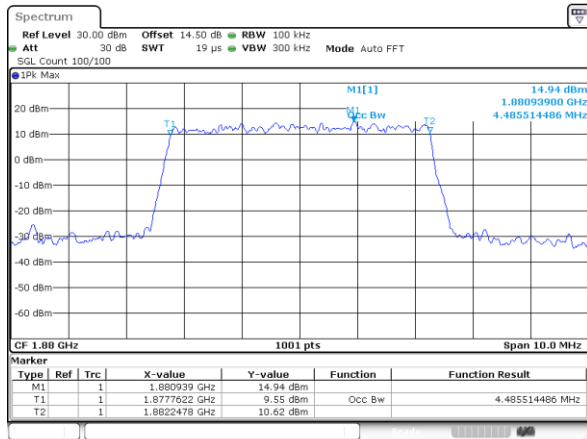
Lowest Channel / 5MHz / QPSK



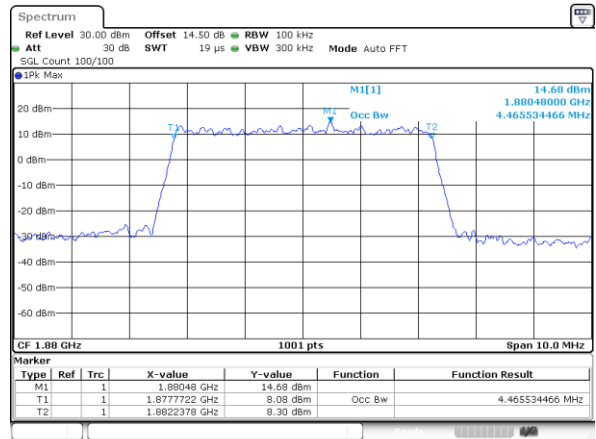
Lowest Channel / 5MHz / 16QAM



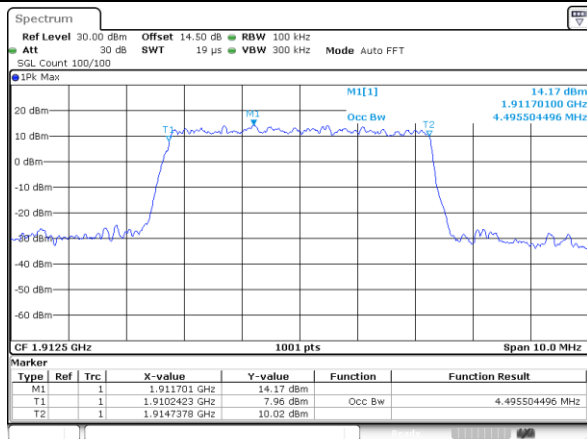
Middle Channel / 5MHz / QPSK



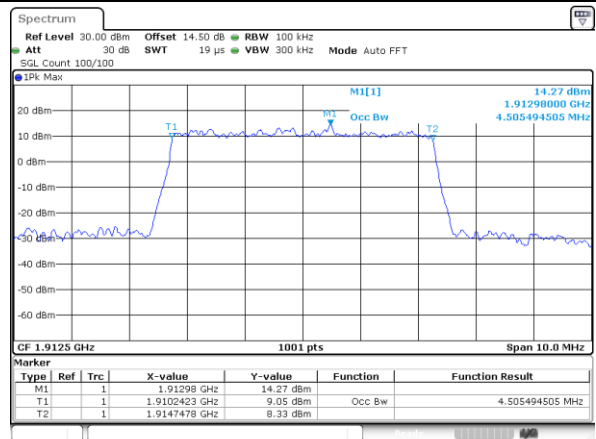
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



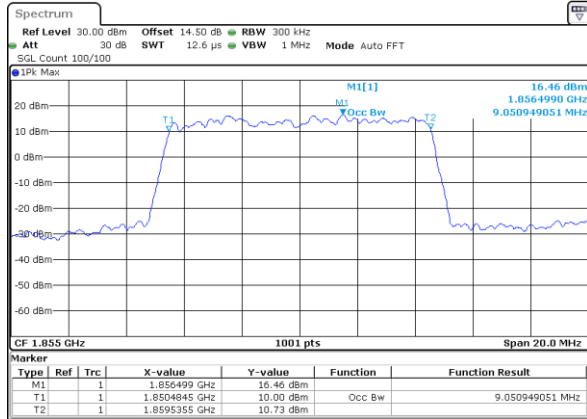
Highest Channel / 5MHz / 16QAM





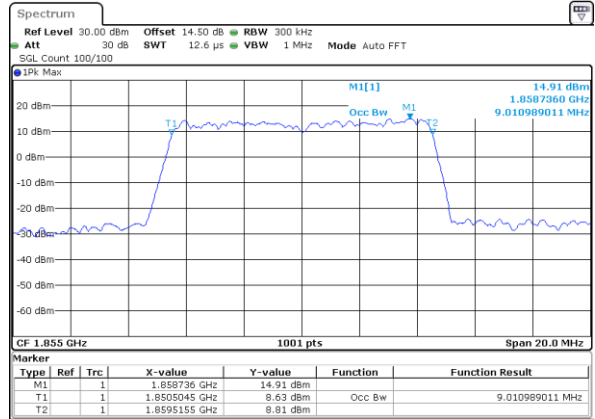
LTE Band 25

Lowest Channel / 10MHz / QPSK



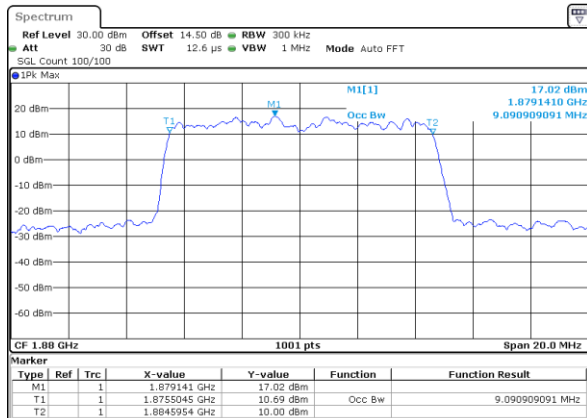
Date: 30,NOV,2019 20:05:42

Lowest Channel / 10MHz / 16QAM



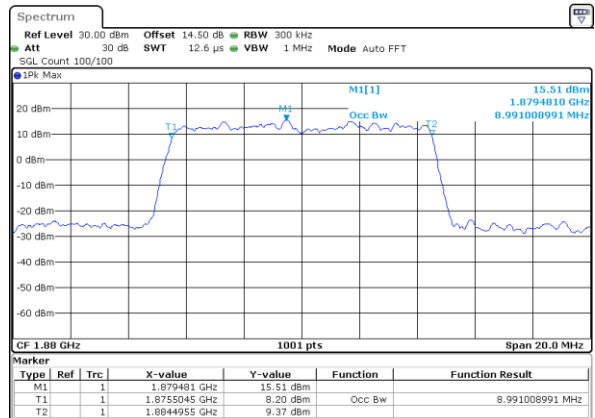
Date: 30,NOV,2019 20:05:53

Middle Channel / 10MHz / QPSK



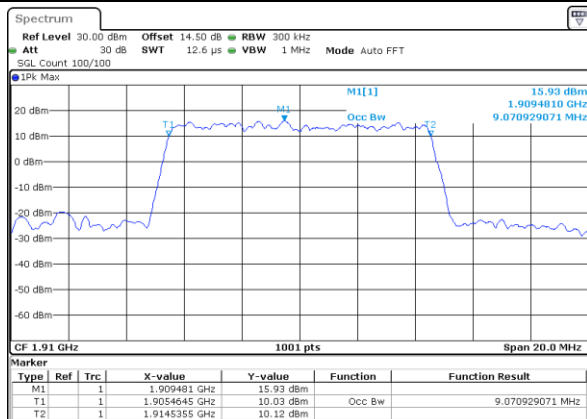
Date: 30,NOV,2019 20:11:48

Middle Channel / 10MHz / 16QAM



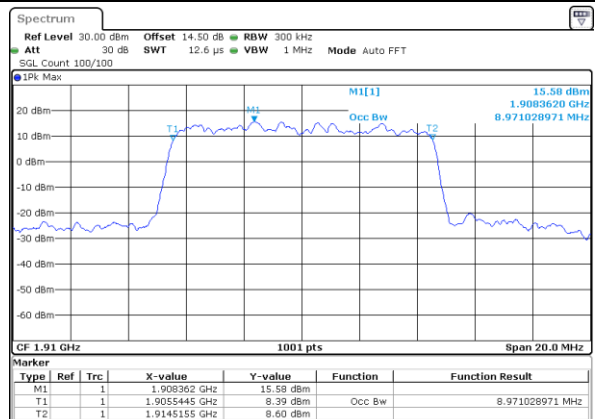
Date: 30,NOV,2019 20:11:59

Highest Channel / 10MHz / QPSK



Date: 30,NOV,2019 20:13:55

Highest Channel / 10MHz / 16QAM

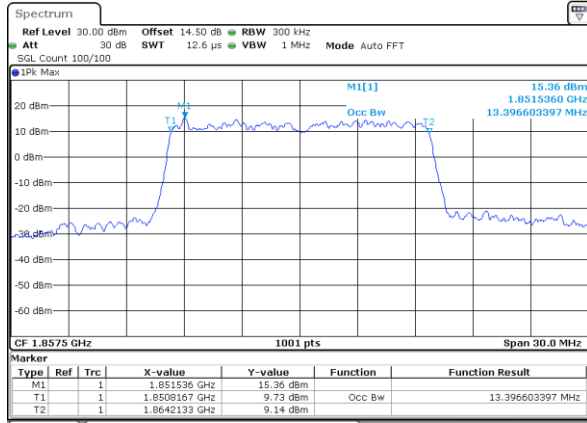


Date: 30,NOV,2019 20:14:06

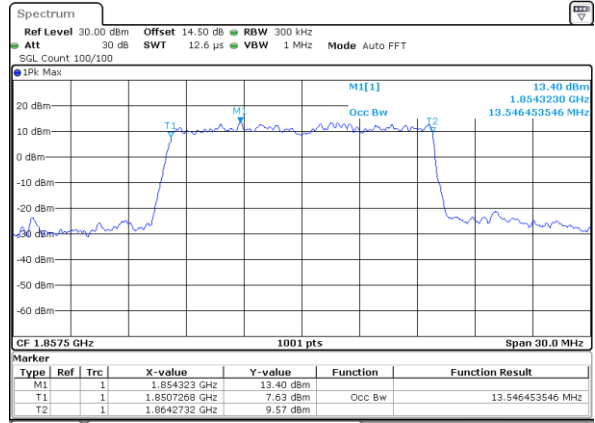


LTE Band 25

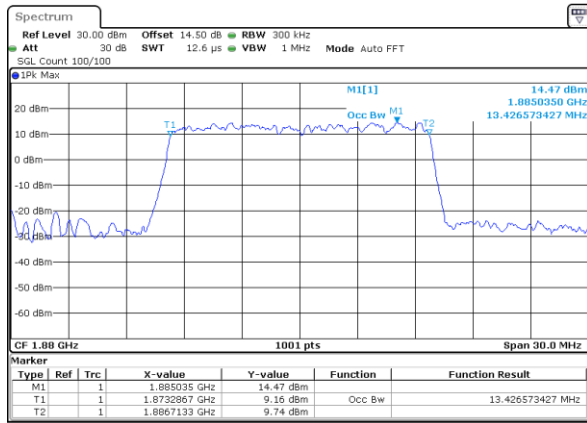
Lowest Channel / 15MHz / QPSK



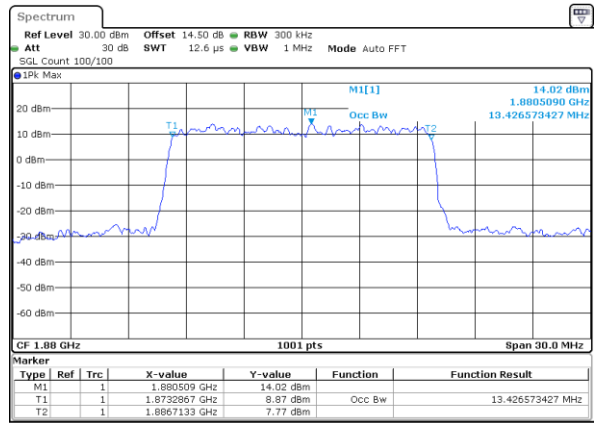
Lowest Channel / 15MHz / 16QAM



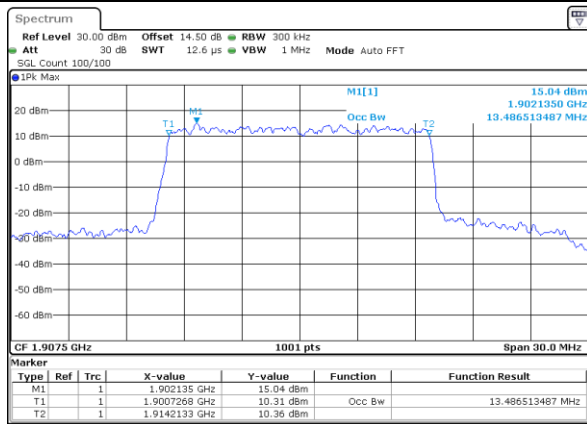
Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



Highest Channel / 15MHz / 16QAM

