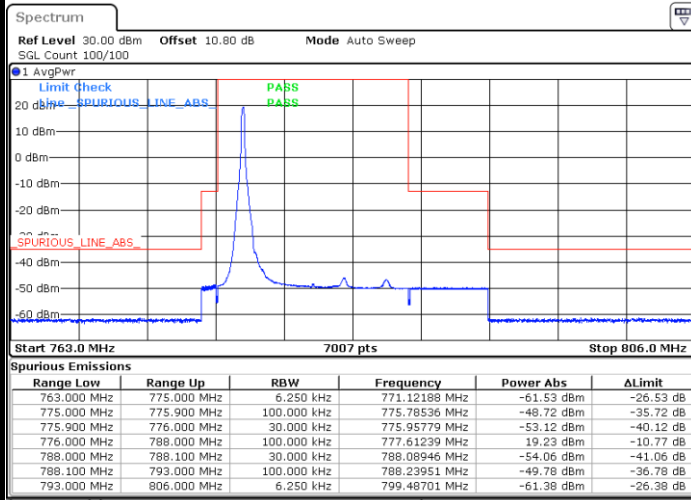




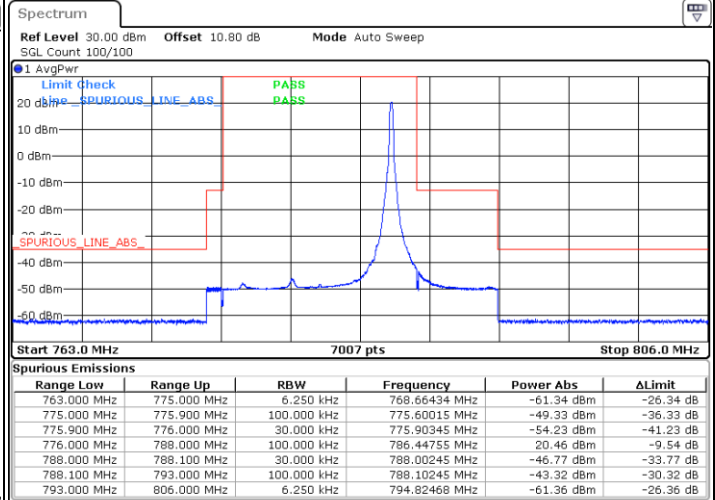
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



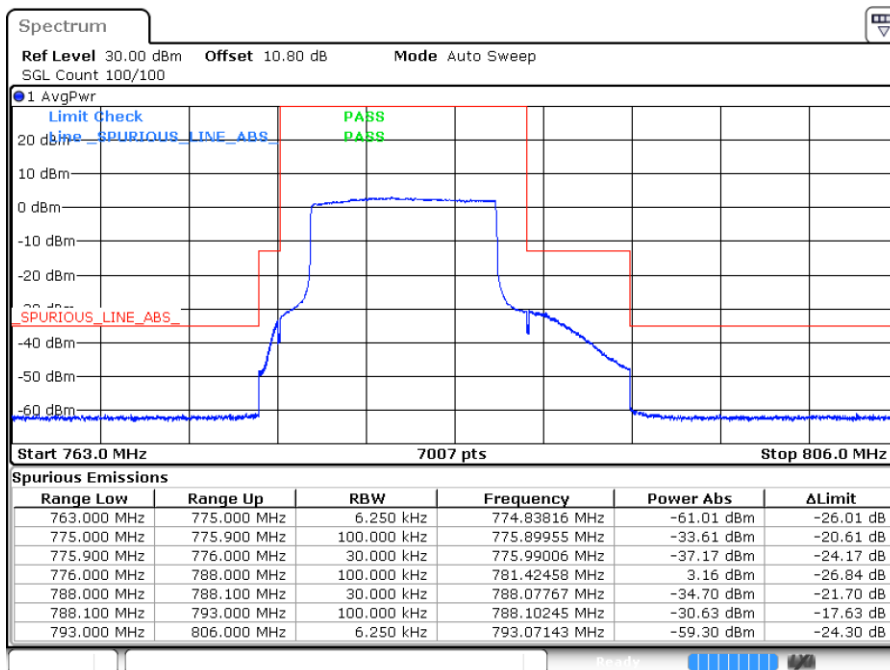
Date: 21.FEB.2020 09:57:35

Highest Band Edge / 1 RB



Date: 21.FEB.2020 09:59:15

Band Edge / Full RB

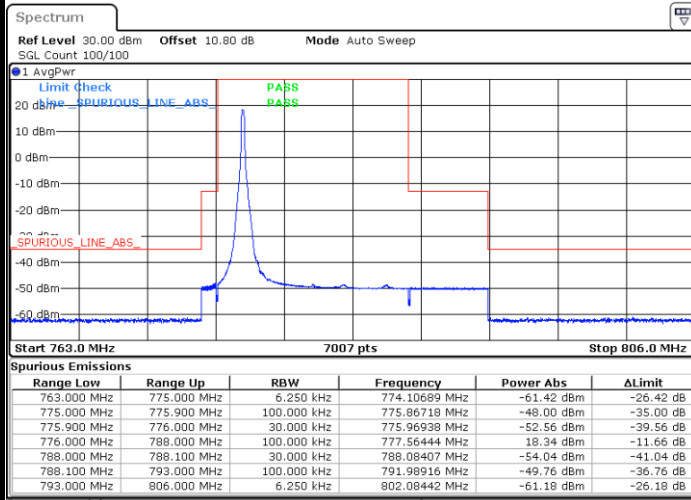


Date: 21.FEB.2020 09:52:35



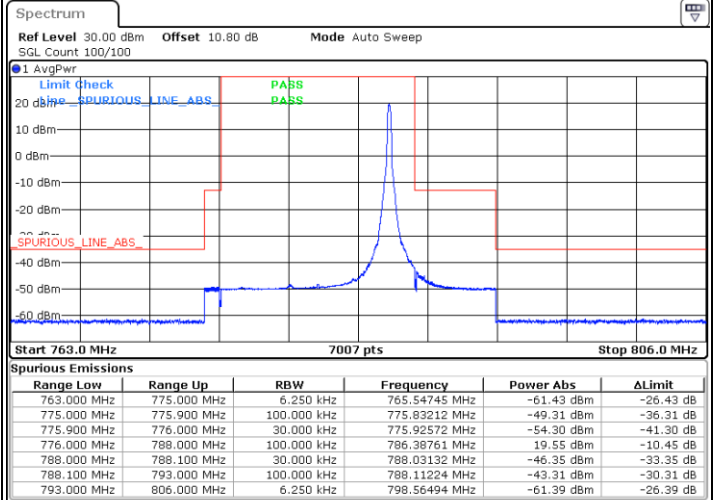
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



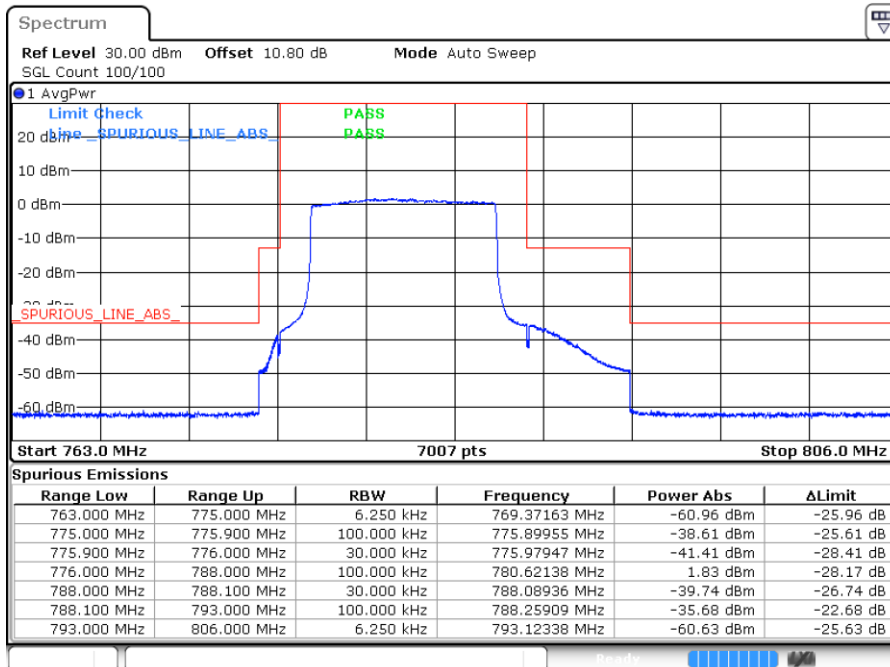
Date: 21.FEB.2020 09:55:55

Highest Band Edge / 1 RB



Date: 21.FEB.2020 10:00:55

Band Edge / Full RB

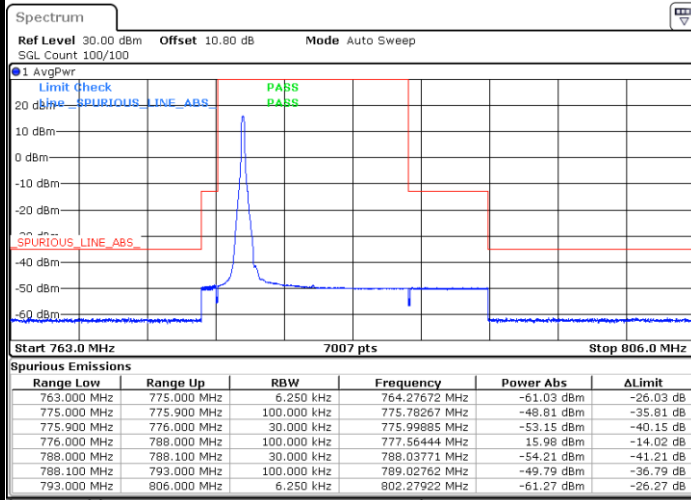


Date: 21.FEB.2020 09:54:15



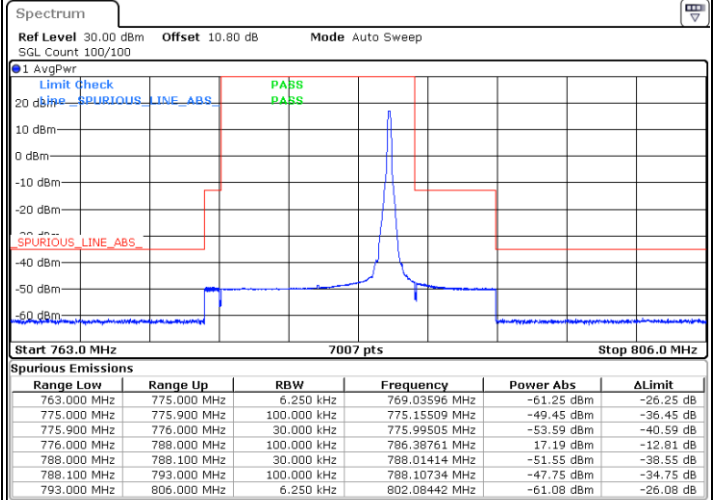
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



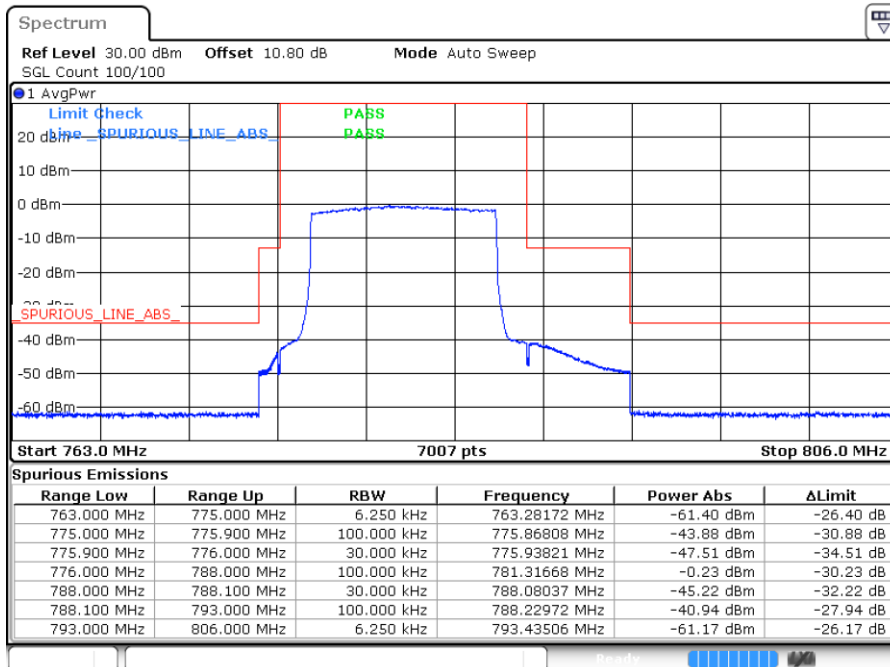
Date: 21.FEB.2020 10:05:59

Highest Band Edge / 1 RB



Date: 21.FEB.2020 10:07:39

Band Edge / Full RB



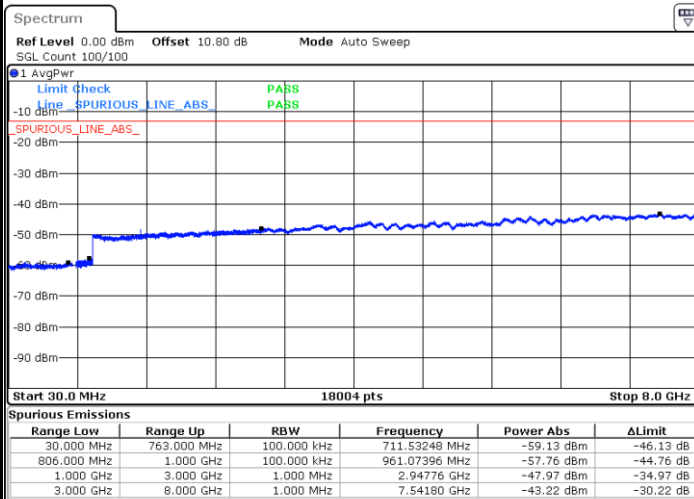
Date: 21.FEB.2020 10:04:18



Conducted Spurious Emission

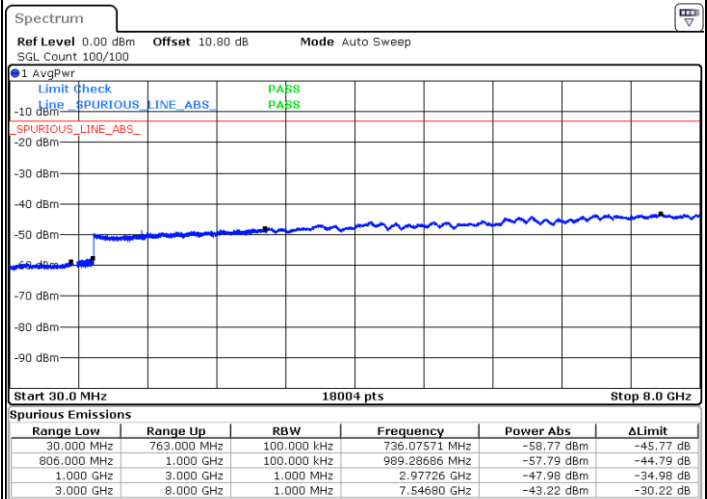
LTE Band 13 / 5MHz

Lowest Channel / QPSK



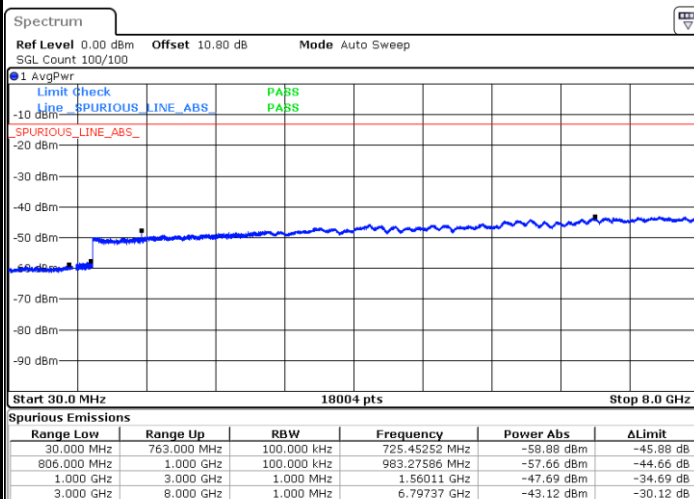
Date: 21.FEB.2020 09:28:32

Lowest Channel / 16QAM



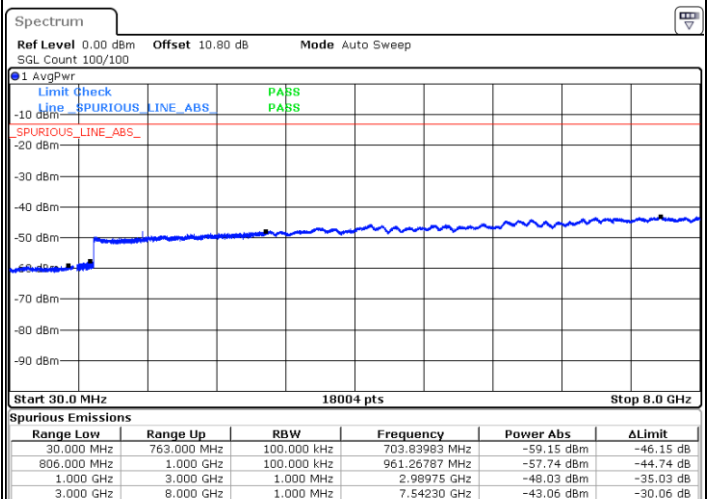
Date: 21.FEB.2020 09:29:13

Middle Channel / QPSK



Date: 21.FEB.2020 09:30:33

Middle Channel / 16QAM

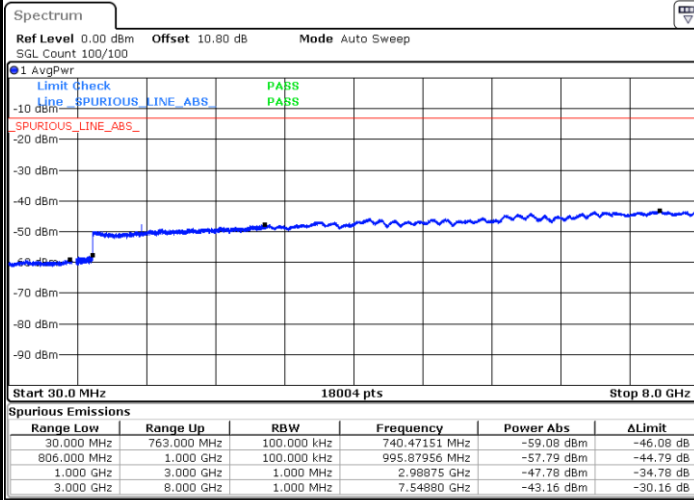


Date: 21.FEB.2020 09:29:53



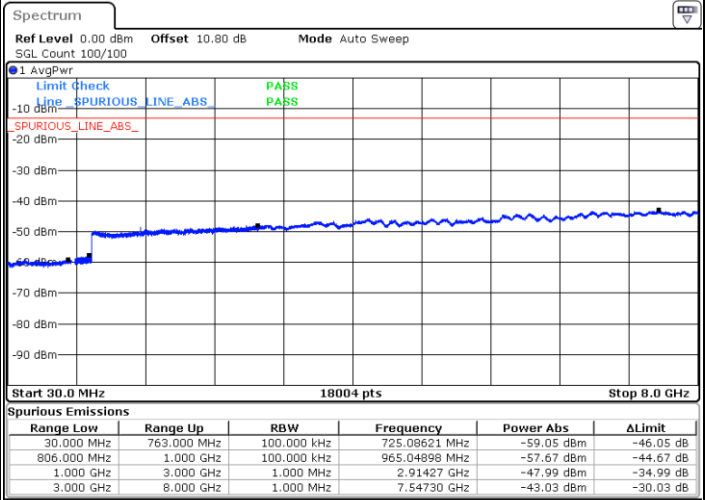
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 21 FEB 2020 09:39:31

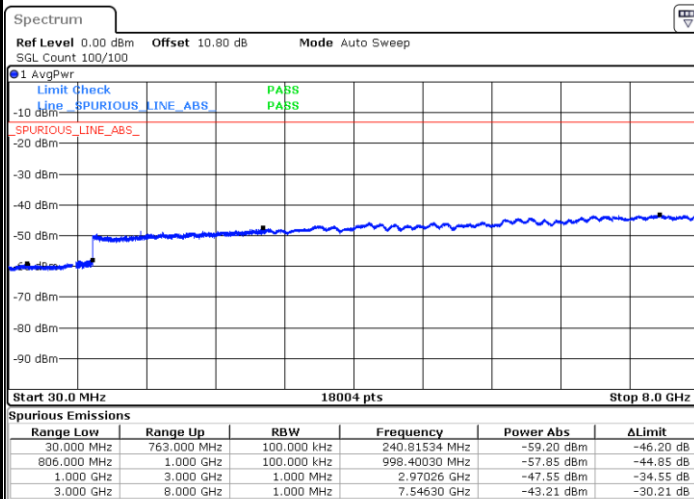
Highest Channel / 16QAM



Date: 21 FEB 2020 09:40:12

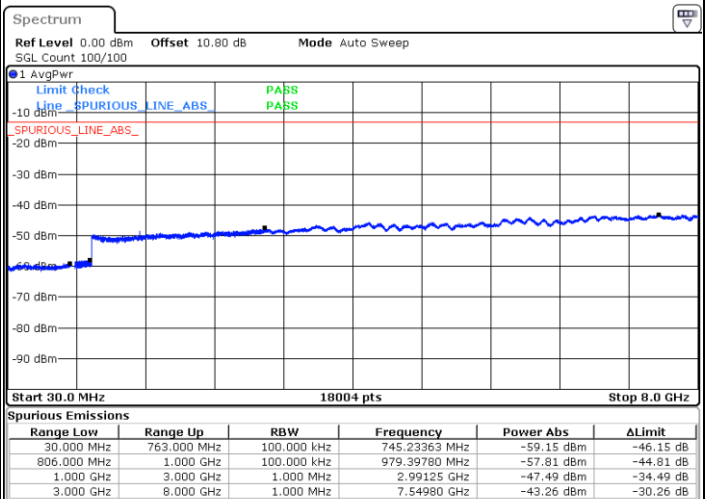
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 21 FEB 2020 10:02:16

Middle Channel / 16QAM

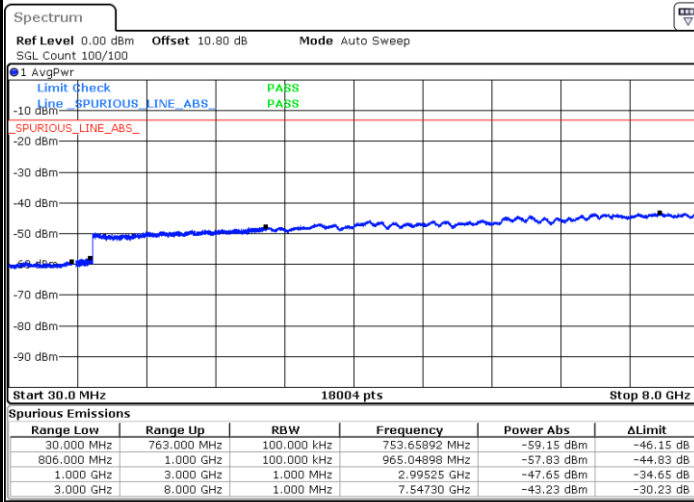


Date: 21 FEB 2020 10:01:36



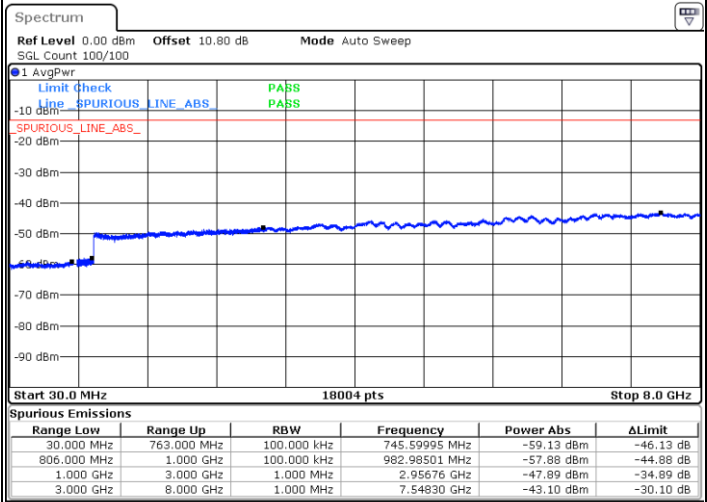
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



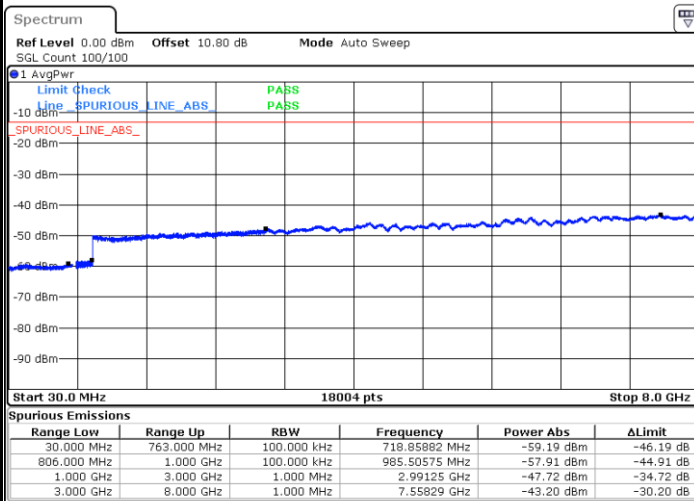
Date: 21 FEB 2020 09:44:38

Middle Channel / 64QAM



Date: 21 FEB 2020 09:45:19

Highest Channel / 64QAM

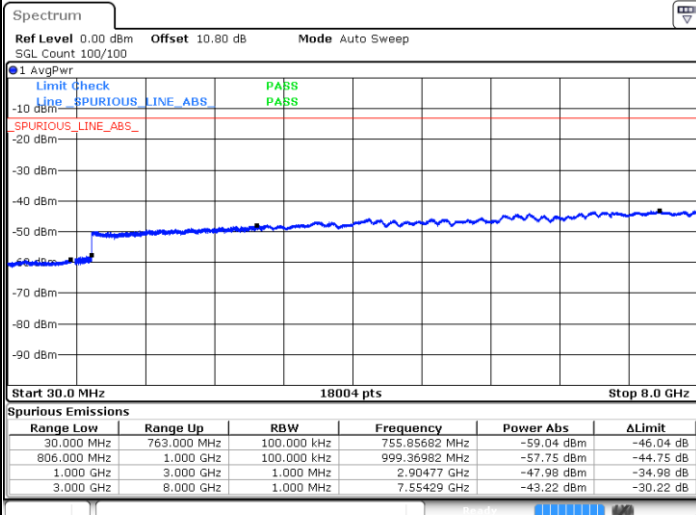


Date: 21 FEB 2020 09:50:08



LTE Band 13 / 10MHz

Middle Channel / 64QAM



Date: 21.FEB.2020 10:08:19

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	0.0013	PASS
40	Normal Voltage	0.0064	
30	Normal Voltage	0.0058	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0075	
-20	Normal Voltage	0.0033	
-30	Normal Voltage	0.0058	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0033	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

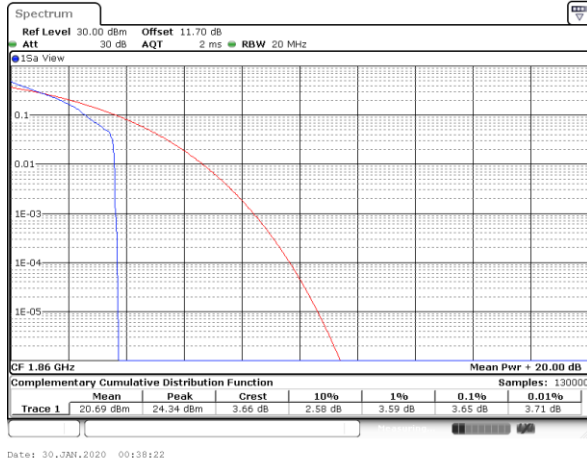
<Main Antenna>

Peak-to-Average Ratio

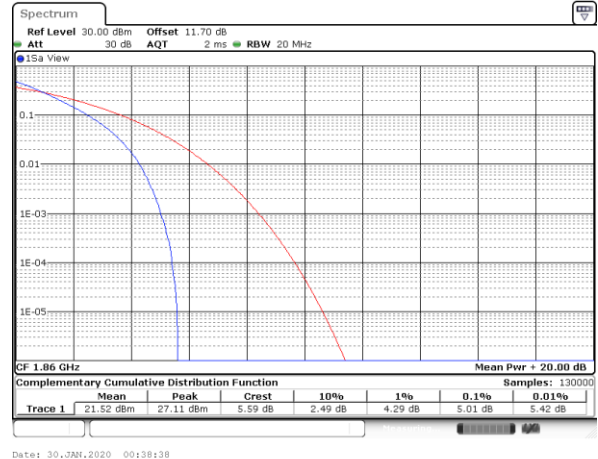
Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.65	5.01	5.04	6.00	PASS
Middle CH	3.80	5.07	5.51	6.03	
Highest CH	3.62	4.90	5.07	6.00	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.55	6.46	-	-	PASS
Middle CH	6.32	6.58	-	-	
Highest CH	6.06	6.55	-	-	

LTE Band 25 / 20MHz / QPSK

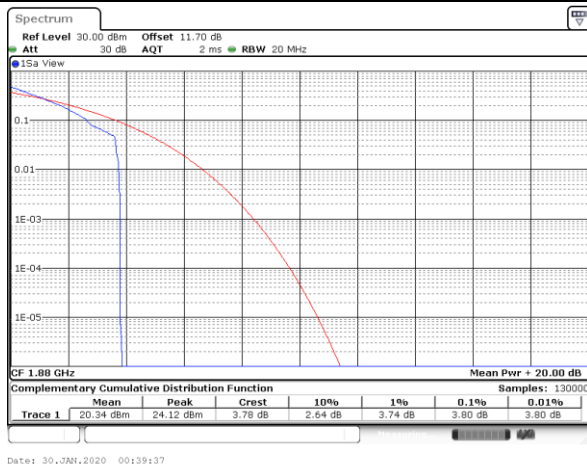
Lowest Channel / 1RB



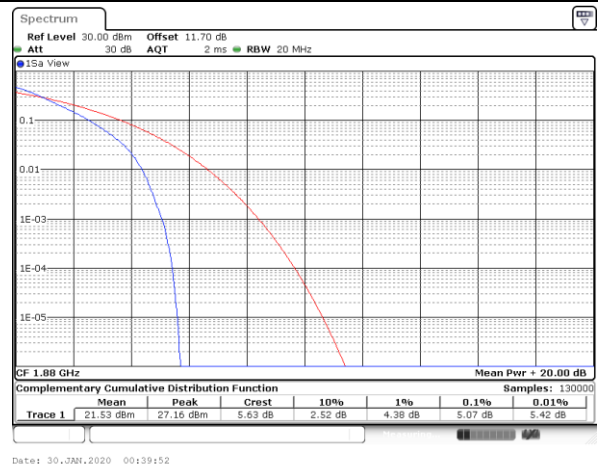
Lowest Channel / Full RB



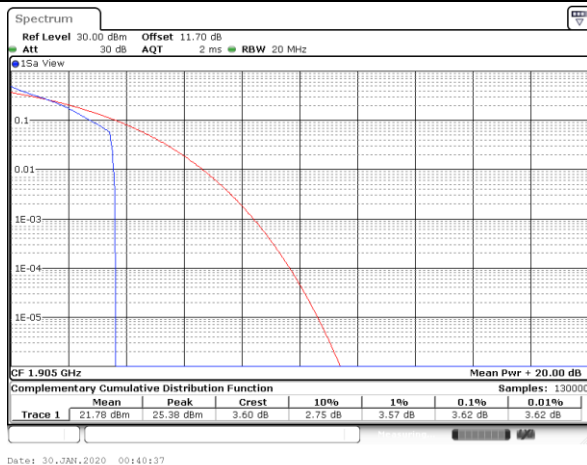
Middle Channel / 1RB



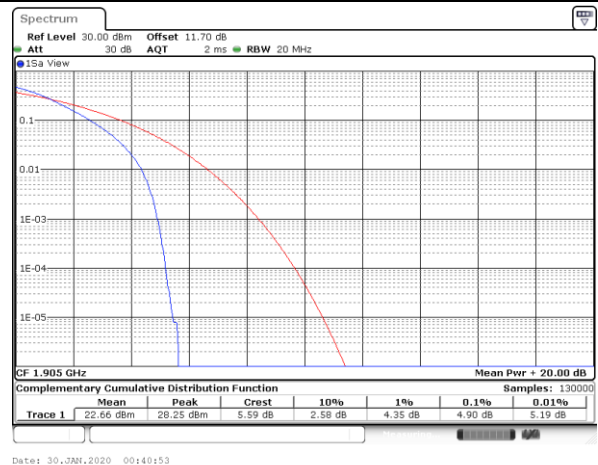
Middle Channel / Full RB



Highest Channel / 1RB



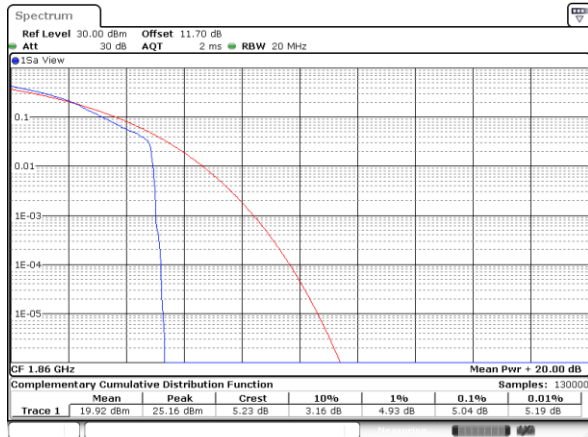
Highest Channel / Full RB



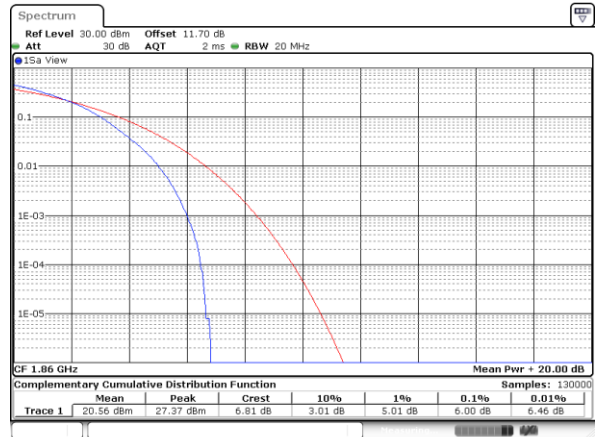


LTE Band 25 / 20MHz / 16QAM

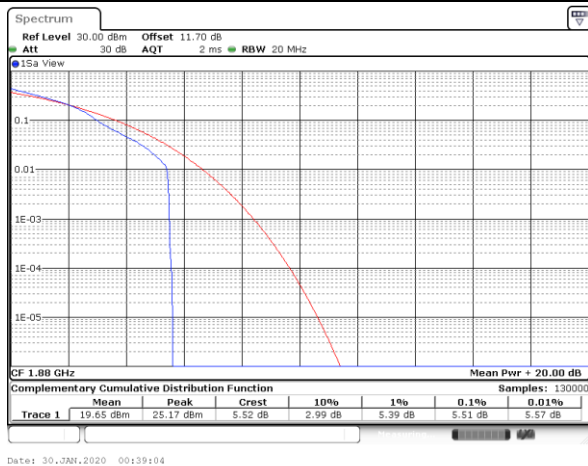
Lowest Channel / 1RB



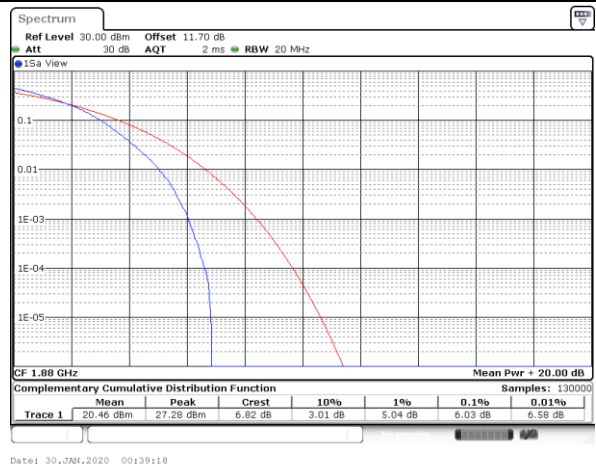
Lowest Channel / Full RB



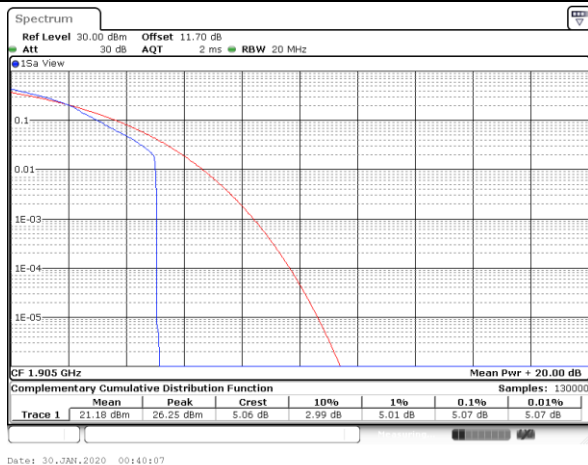
Middle Channel / 1RB



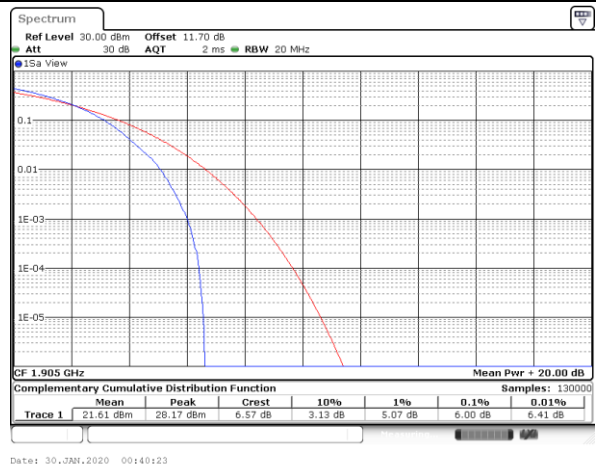
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



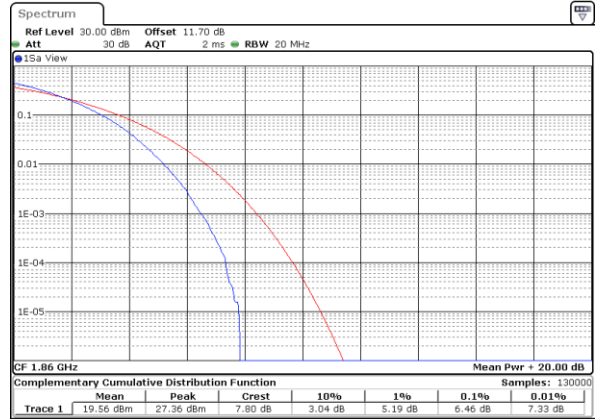
LTE Band 25 / 20MHz / 64QAM

Lowest Channel / 1RB



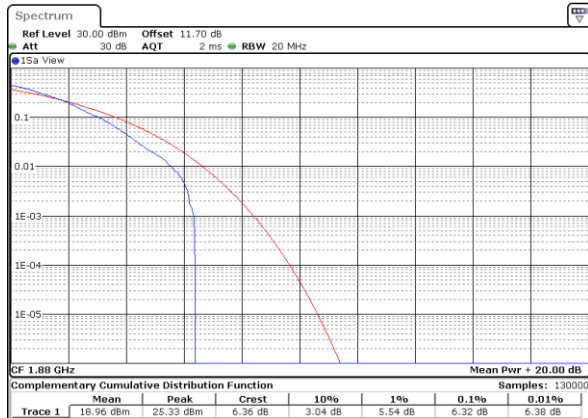
Date: 30.JAN.2020 00:34:59

Lowest Channel / Full RB



Date: 30.JAN.2020 00:35:14

Middle Channel / 1RB



Date: 30.JAN.2020 00:35:29

Middle Channel / Full RB



Date: 30.JAN.2020 00:35:44

Highest Channel / 1RB



Date: 30.JAN.2020 00:36:03

Highest Channel / Full RB



Date: 30.JAN.2020 00:36:19

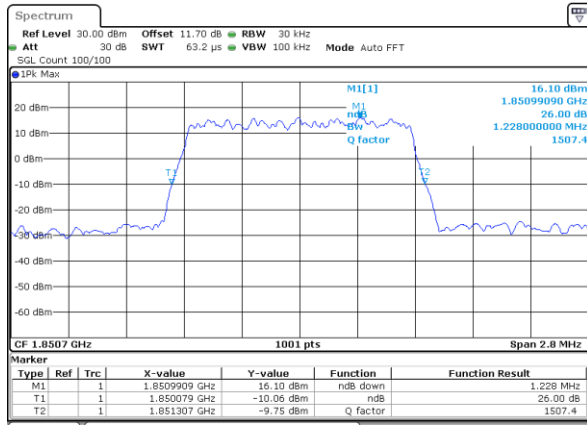
**26dB Bandwidth**

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	1.22	3.05	3.00	4.92	4.93	9.79	9.85	14.54	14.42	19.02	19.22
Middle CH	1.24	1.23	3.04	3.05	4.93	4.92	9.79	9.75	14.36	14.39	19.06	18.78
Highest CH	1.23	1.23	2.99	3.06	4.97	4.89	9.57	9.79	14.57	14.39	19.26	19.10
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.06	-	4.84	-	9.91	-	14.45	-	19.06	-
Middle CH	1.23	-	2.99	-	4.94	-	9.79	-	14.51	-	18.94	-
Highest CH	1.23	-	3.04	-	4.98	-	9.73	-	14.45	-	18.86	-



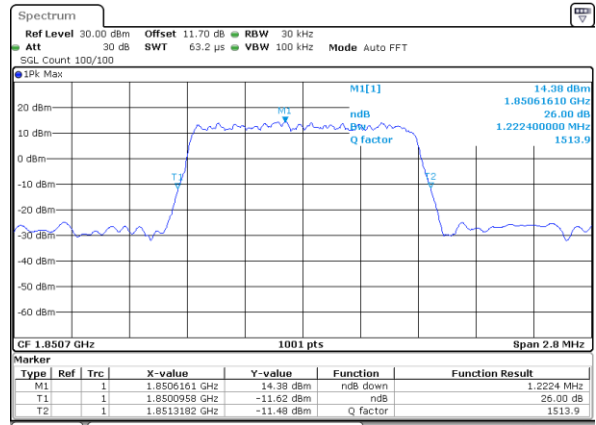
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



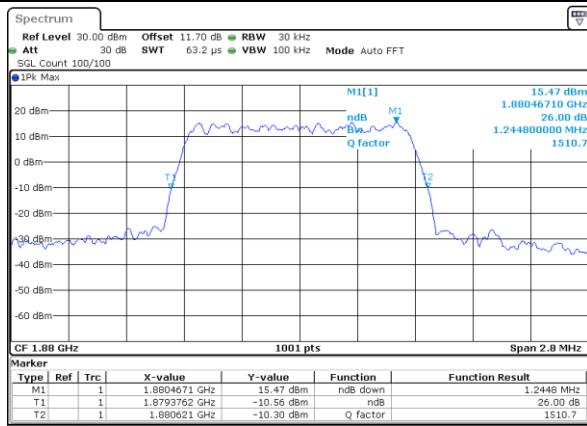
Date: 29.JAN.2020 17:55:16

Lowest Channel / 1.4MHz / 16QAM



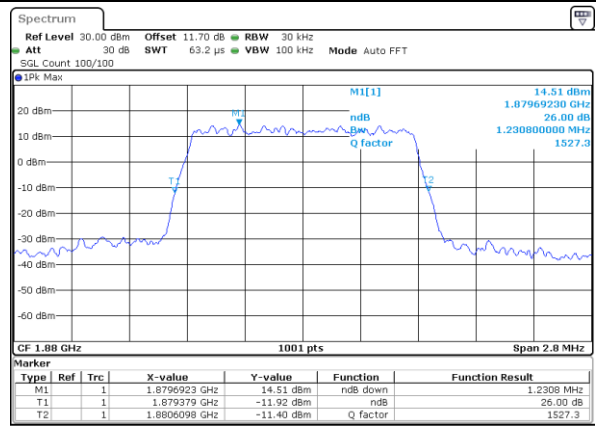
Date: 29.JAN.2020 17:55:30

Middle Channel / 1.4MHz / QPSK



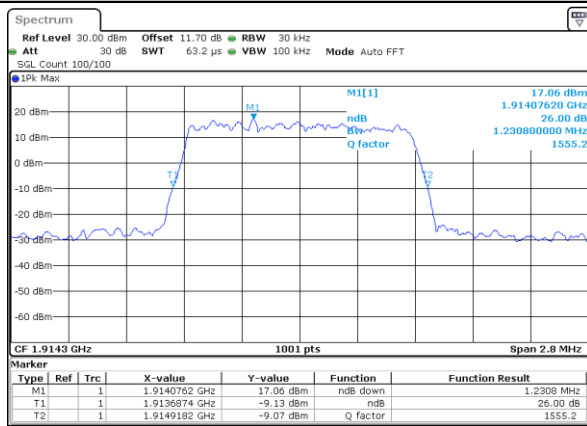
Date: 29.JAN.2020 18:02:59

Middle Channel / 1.4MHz / 16QAM



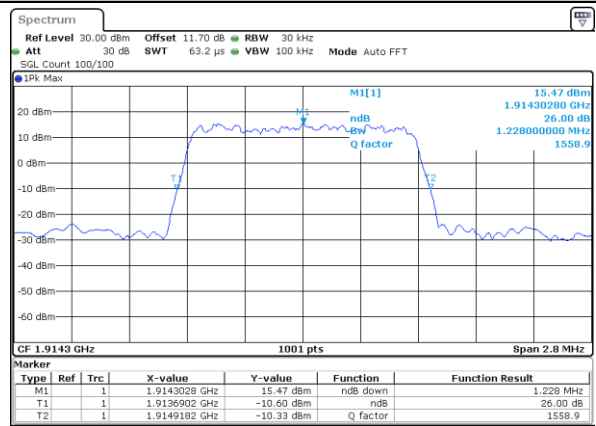
Date: 29.JAN.2020 18:02:53

Highest Channel / 1.4MHz / QPSK



Date: 29.JAN.2020 18:05:58

Highest Channel / 1.4MHz / 16QAM

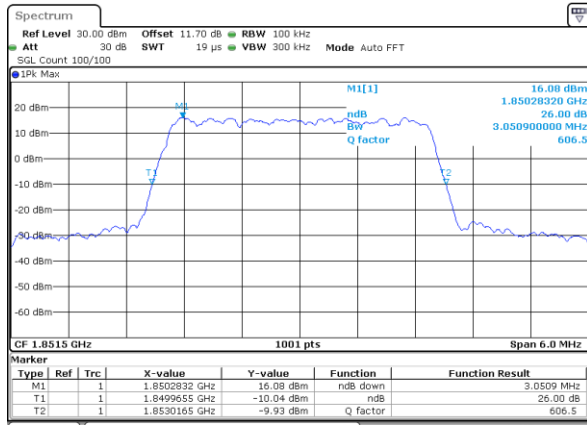


Date: 29.JAN.2020 18:05:44



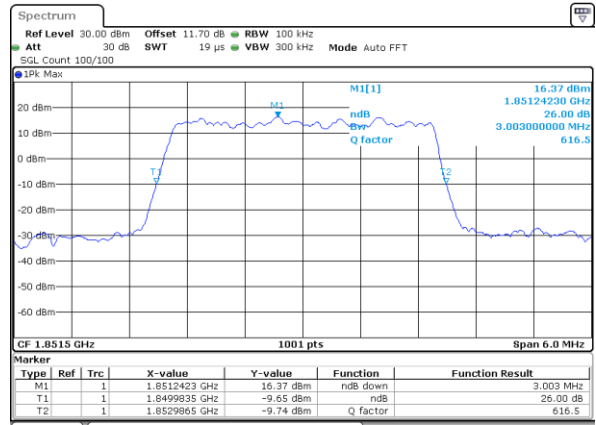
LTE Band 25

Lowest Channel / 3MHz / QPSK



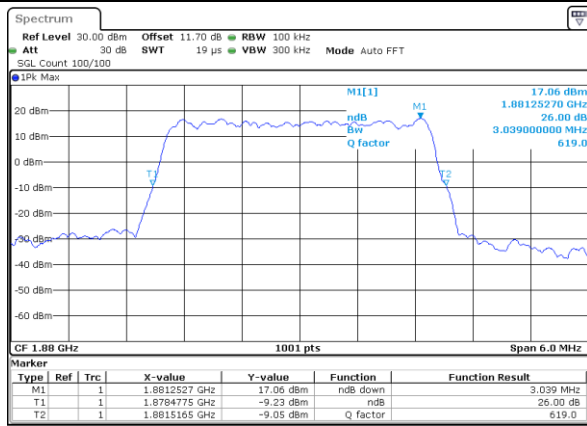
Date: 29.JAN.2020 18:31:14

Lowest Channel / 3MHz / 16QAM



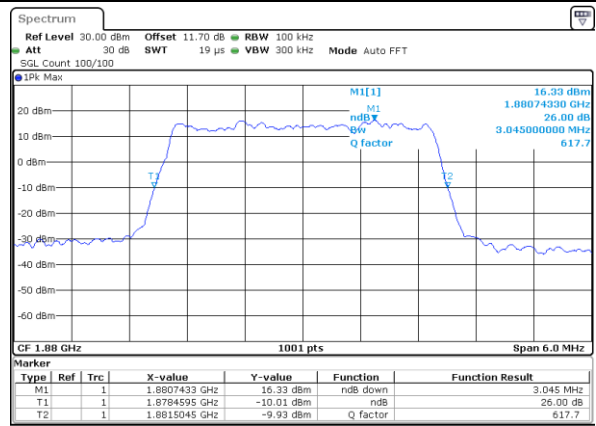
Date: 29.JAN.2020 18:31:28

Middle Channel / 3MHz / QPSK



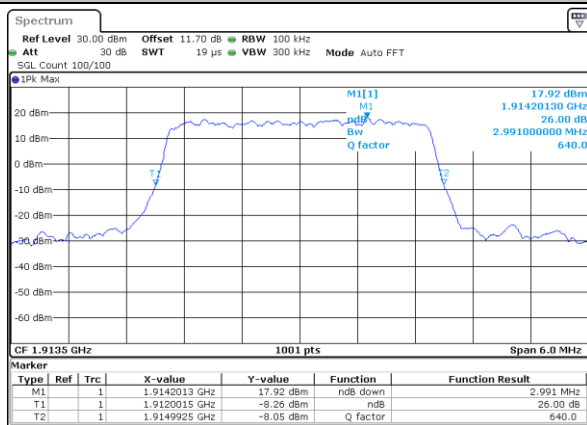
Date: 29.JAN.2020 22:40:30

Middle Channel / 3MHz / 16QAM



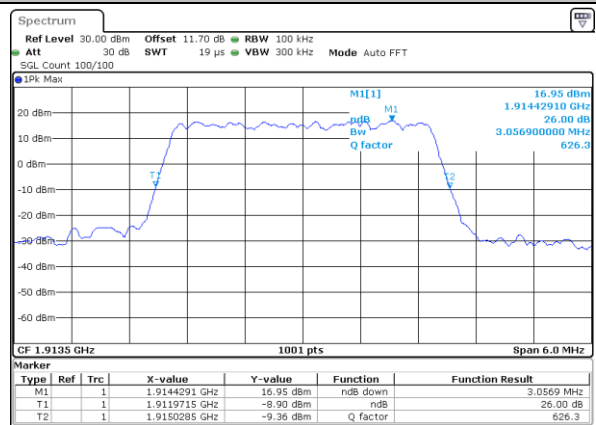
Date: 29.JAN.2020 22:40:44

Highest Channel / 3MHz / QPSK



Date: 29.JAN.2020 22:43:49

Highest Channel / 3MHz / 16QAM

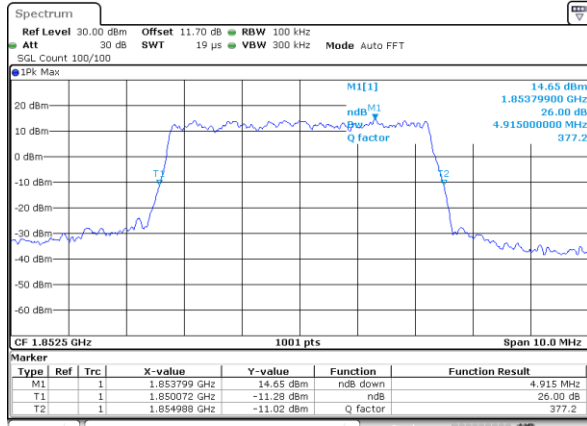


Date: 29.JAN.2020 22:43:35



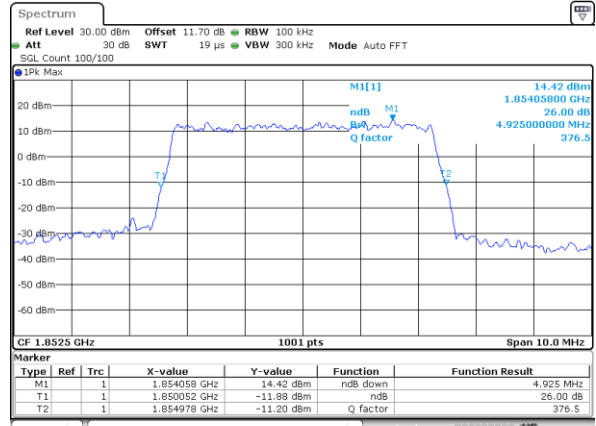
LTE Band 25

Lowest Channel / 5MHz / QPSK



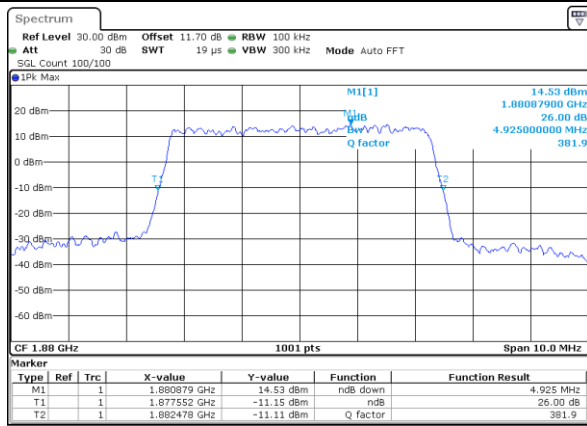
Date: 29.JAN.2020 22:50:47

Lowest Channel / 5MHz / 16QAM



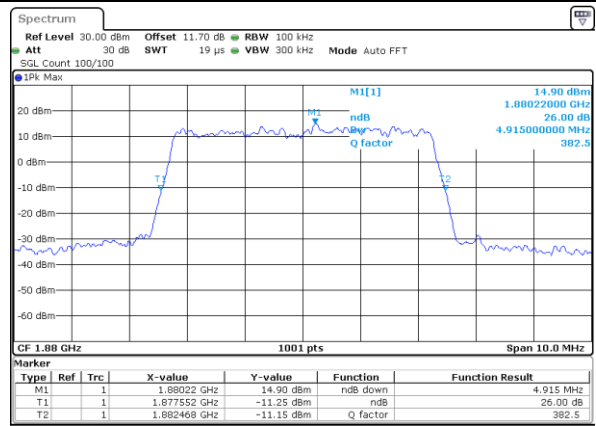
Date: 29.JAN.2020 22:51:00

Middle Channel / 5MHz / QPSK



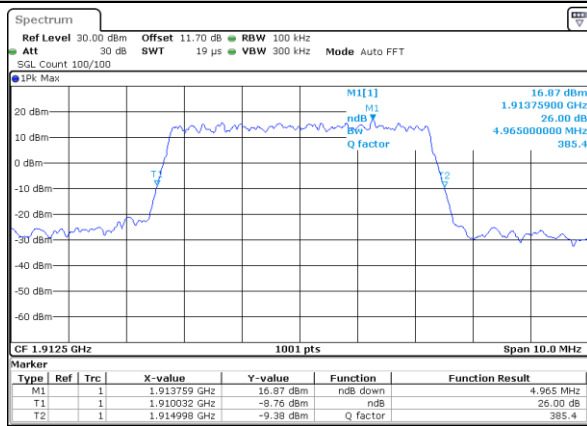
Date: 29.JAN.2020 22:57:57

Middle Channel / 5MHz / 16QAM



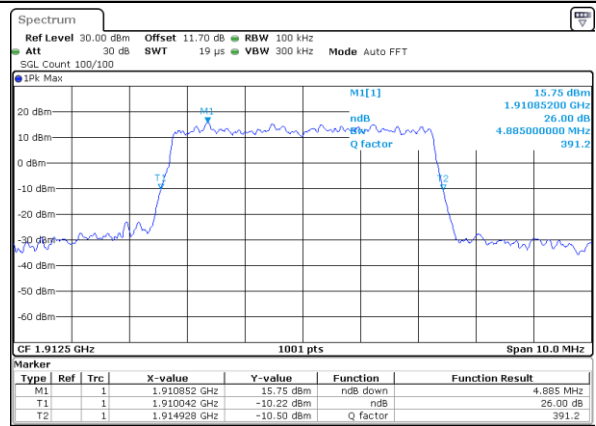
Date: 29.JAN.2020 22:58:11

Highest Channel / 5MHz / QPSK



Date: 29.JAN.2020 23:01:17

Highest Channel / 5MHz / 16QAM

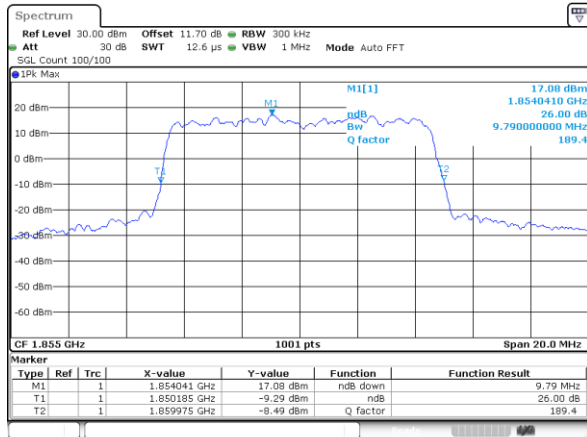


Date: 29.JAN.2020 23:01:03



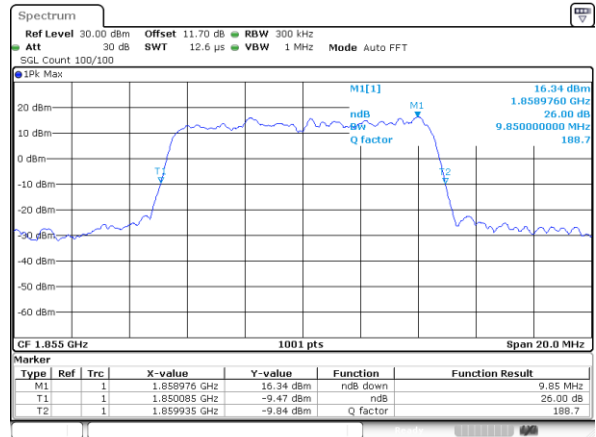
LTE Band 25

Lowest Channel / 10MHz / QPSK



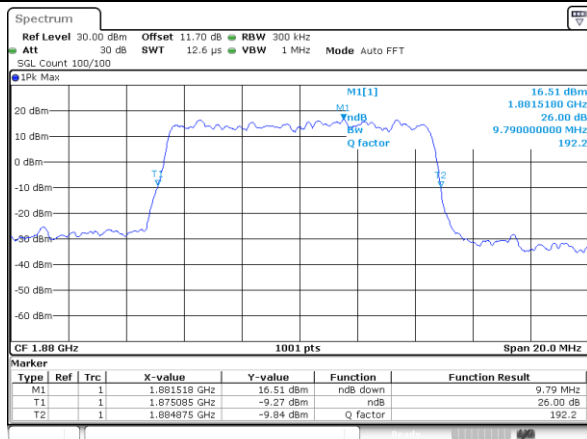
Date: 29_JAN_2020 23:16:58

Lowest Channel / 10MHz / 16QAM



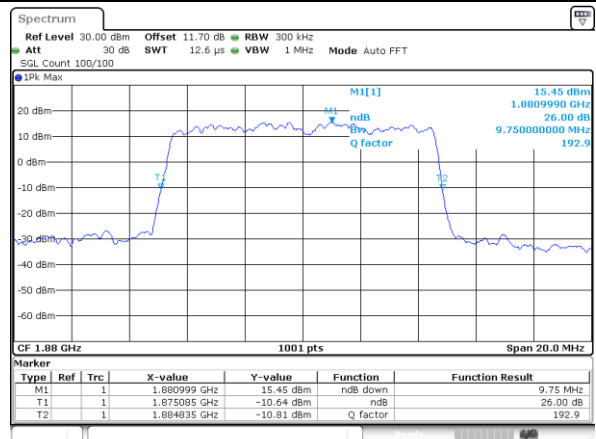
Date: 29_JAN_2020 23:17:12

Middle Channel / 10MHz / QPSK



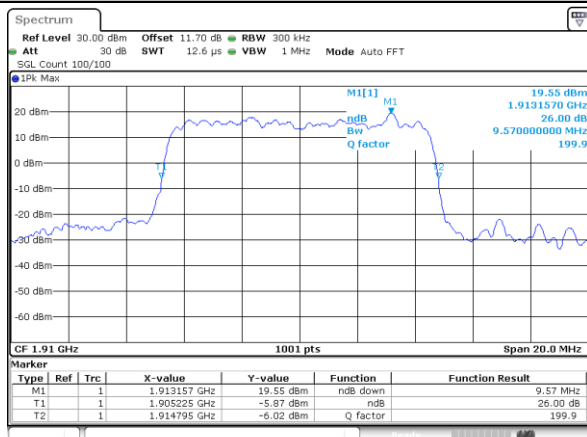
Date: 29_JAN_2020 23:24:08

Middle Channel / 10MHz / 16QAM



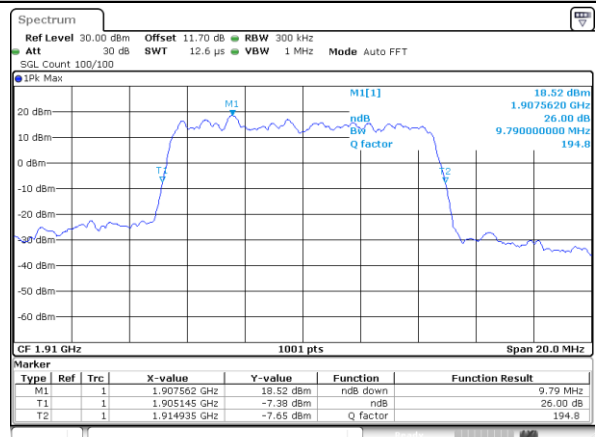
Date: 29_JAN_2020 23:24:22

Highest Channel / 10MHz / QPSK



Date: 29_JAN_2020 23:27:28

Highest Channel / 10MHz / 16QAM

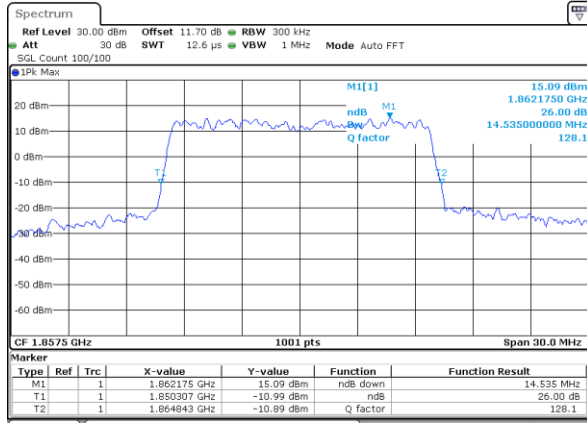


Date: 29_JAN_2020 23:27:14



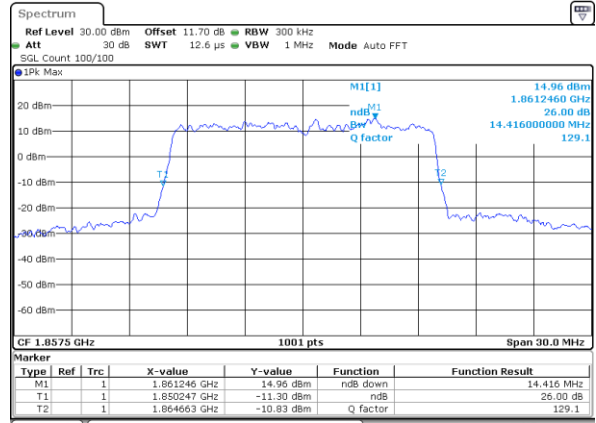
LTE Band 25

Lowest Channel / 15MHz / QPSK



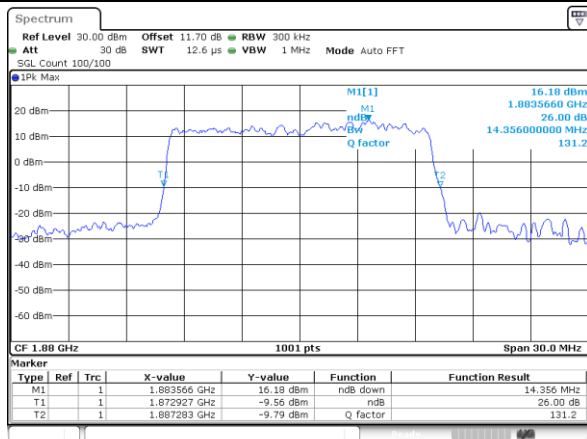
Date: 29_JAN_2020 23:51:51

Lowest Channel / 15MHz / 16QAM



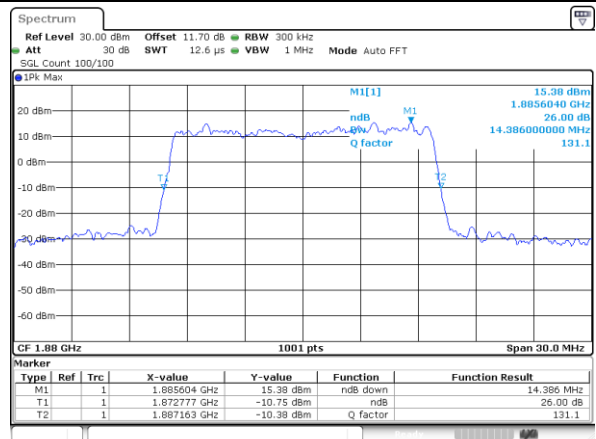
Date: 29_JAN_2020 23:52:05

Middle Channel / 15MHz / QPSK



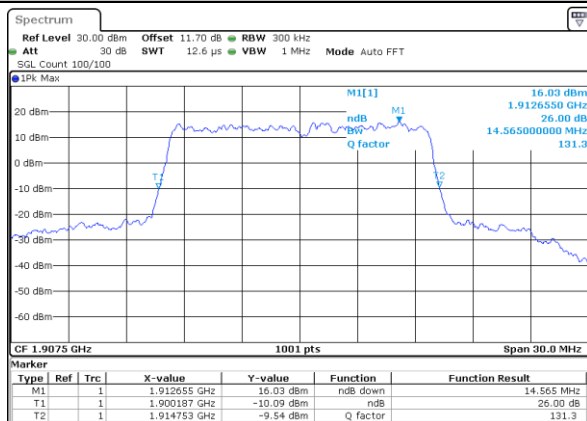
Date: 29_JAN_2020 23:59:02

Middle Channel / 15MHz / 16QAM



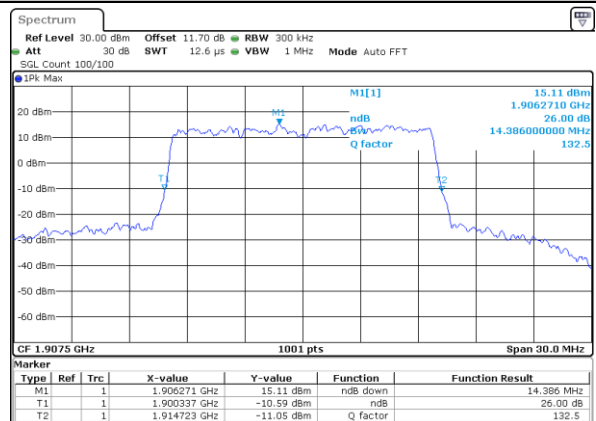
Date: 29_JAN_2020 23:59:15

Highest Channel / 15MHz / QPSK



Date: 30_JAN_2020 00:02:20

Highest Channel / 15MHz / 16QAM

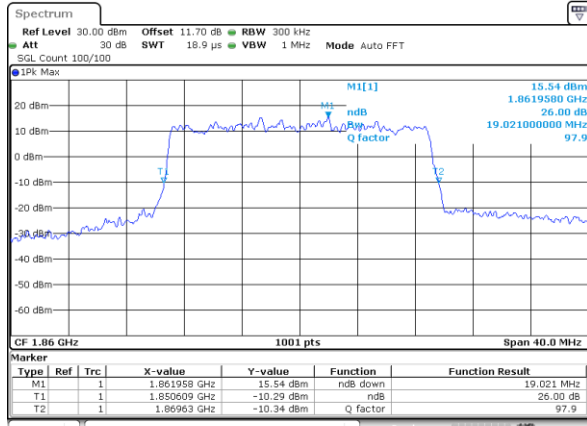


Date: 30_JAN_2020 00:02:06



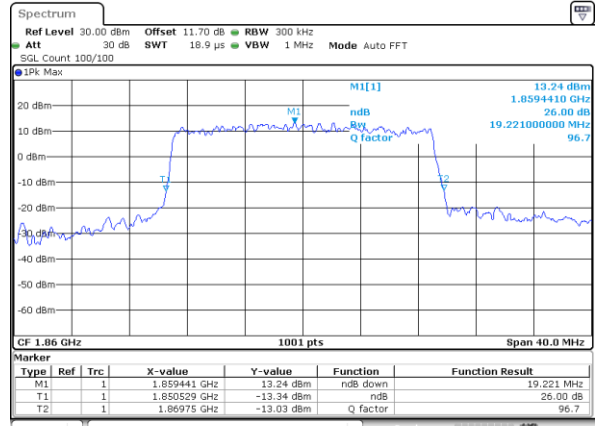
LTE Band 25

Lowest Channel / 20MHz / QPSK



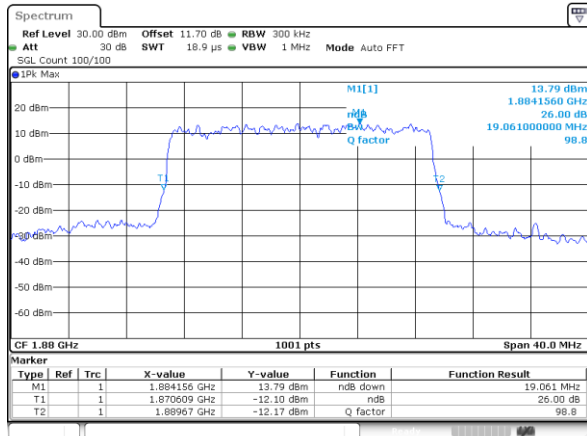
Date: 30_JAN_2020 00:09:18

Lowest Channel / 20MHz / 16QAM



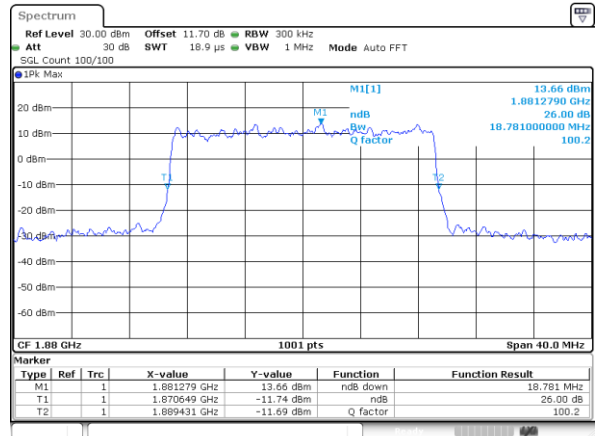
Date: 30_JAN_2020 00:09:31

Middle Channel / 20MHz / QPSK



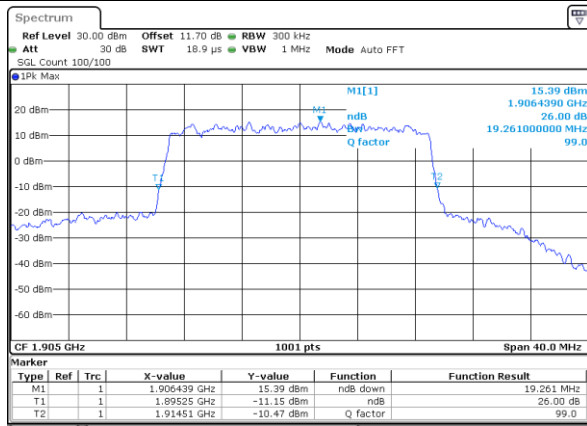
Date: 30_JAN_2020 00:16:28

Middle Channel / 20MHz / 16QAM



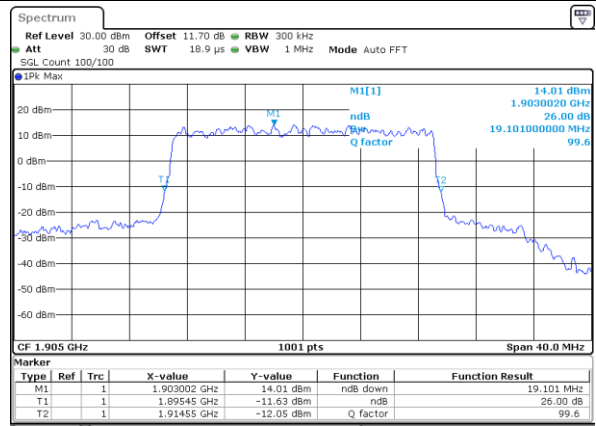
Date: 30_JAN_2020 00:16:41

Highest Channel / 20MHz / QPSK



Date: 30_JAN_2020 00:19:46

Highest Channel / 20MHz / 16QAM

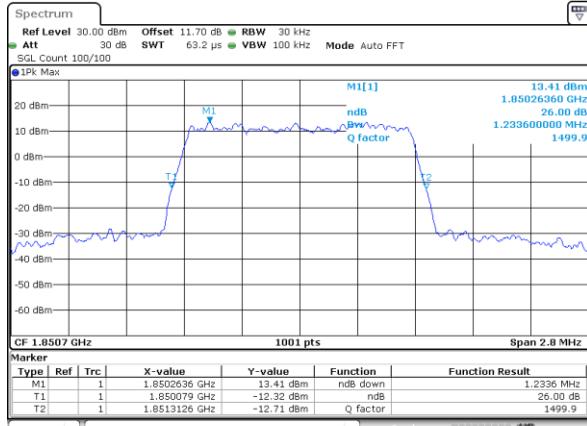


Date: 30_JAN_2020 00:19:33



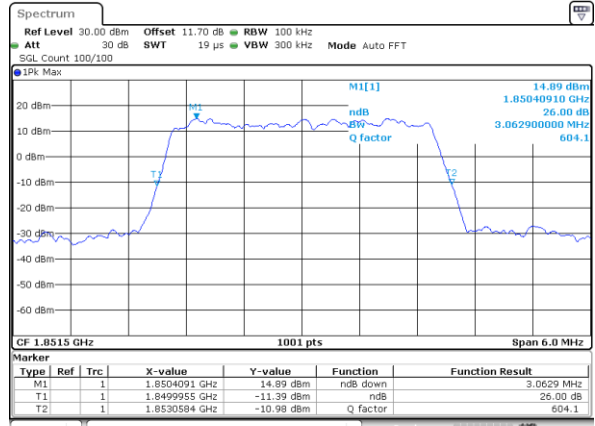
LTE Band 25

Lowest Channel / 1.4MHz / 64QAM



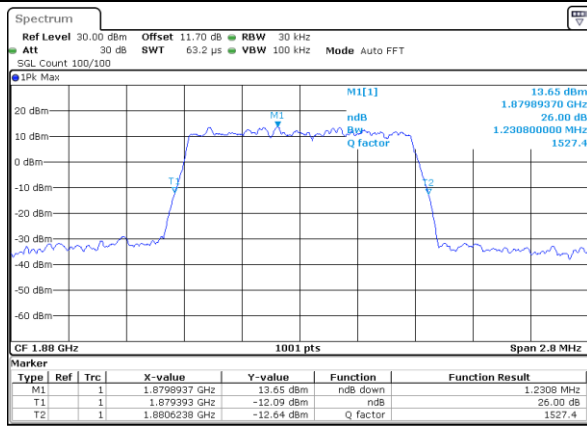
Date: 29_JAN,2020 18:13:12

Lowest Channel / 3MHz / 64QAM



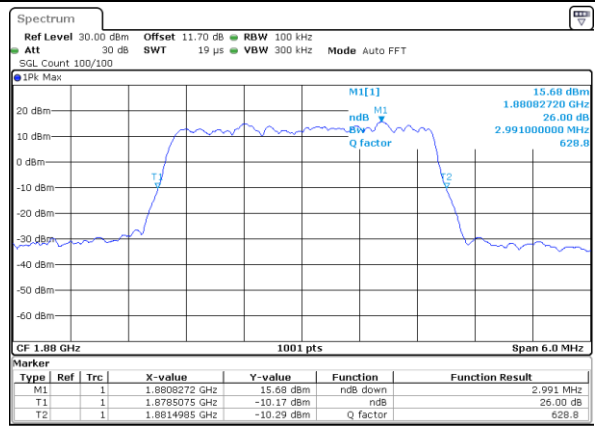
Date: 29_JAN,2020 18:22:17

Middle Channel / 1.4MHz / 64QAM



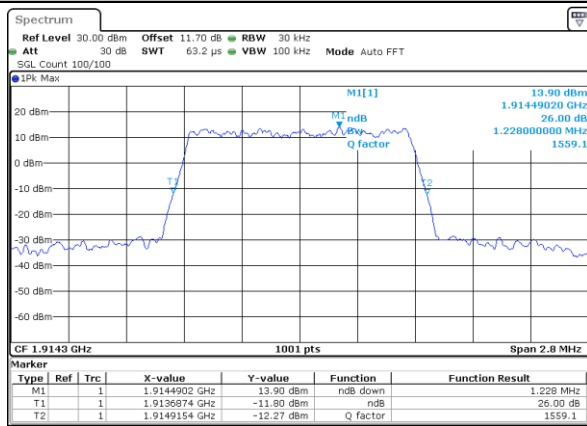
Date: 29_JAN,2020 18:16:53

Middle Channel / 3MHz / 64QAM



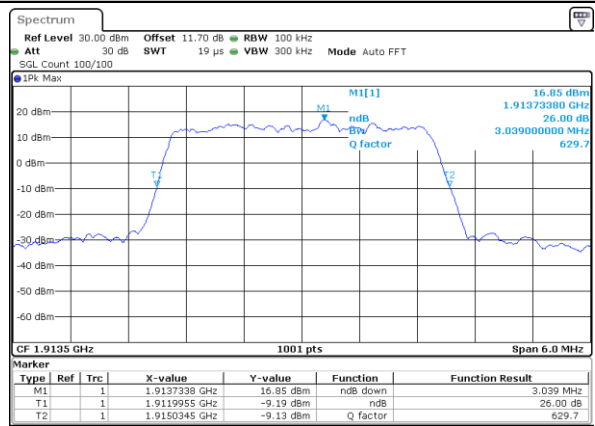
Date: 29_JAN,2020 18:25:52

Highest Channel / 1.4MHz / 64QAM



Date: 29_JAN,2020 18:18:25

Highest Channel / 3MHz / 64QAM

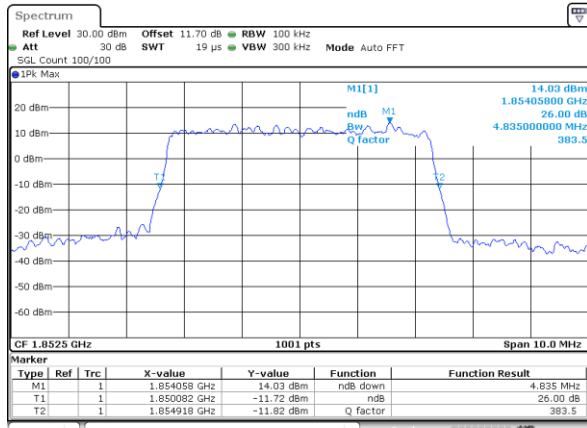


Date: 29_JAN,2020 18:27:24



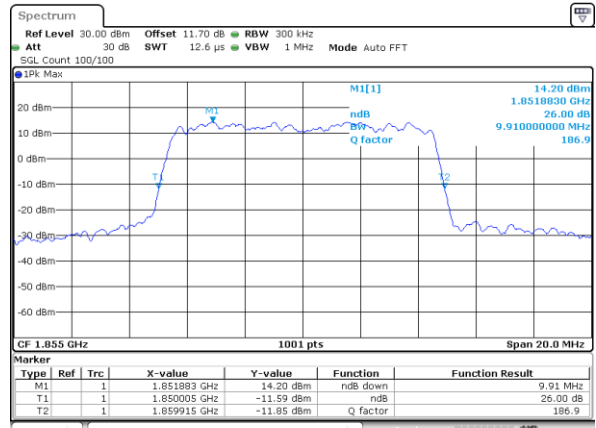
LTE Band 25

Lowest Channel / 5MHz / 64QAM



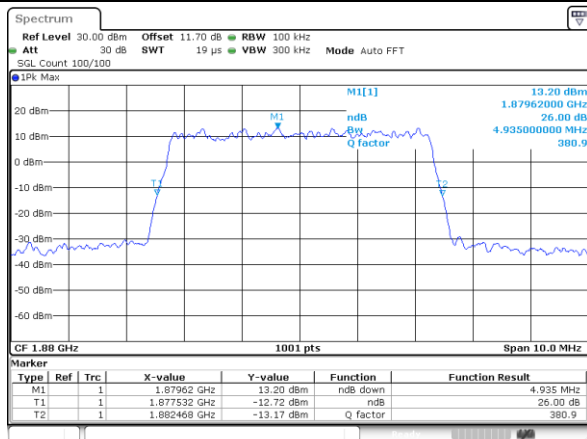
Date: 29.JAN.2020 23:08:00

Lowest Channel / 10MHz / 64QAM



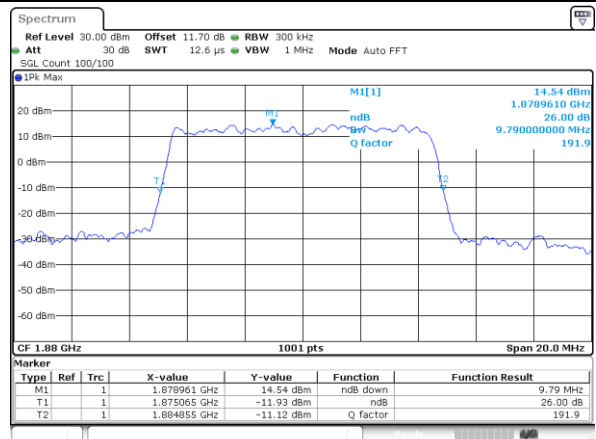
Date: 29.JAN.2020 23:14:11

Middle Channel / 5MHz / 64QAM



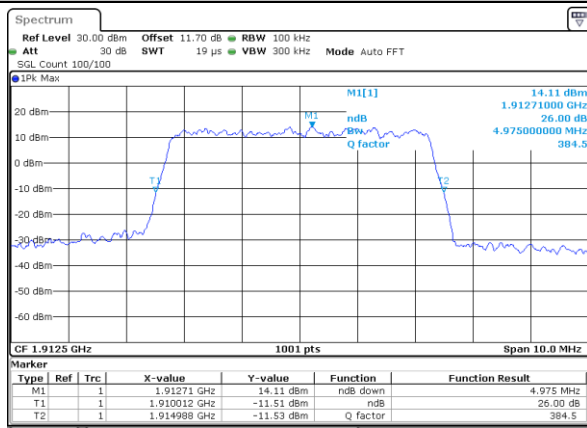
Date: 29.JAN.2020 23:11:05

Middle Channel / 10MHz / 64QAM



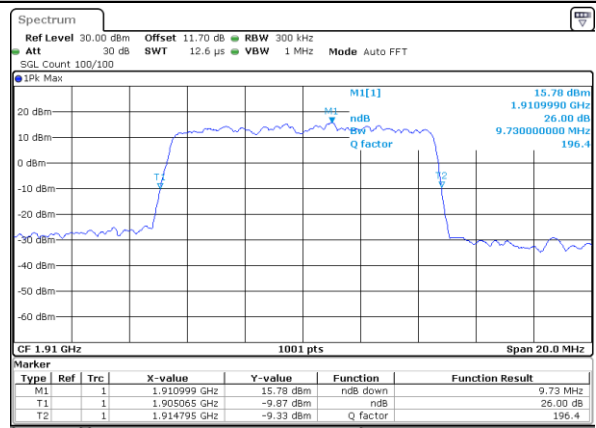
Date: 29.JAN.2020 23:17:45

Highest Channel / 5MHz / 64QAM



Date: 29.JAN.2020 23:13:08

Highest Channel / 10MHz / 64QAM

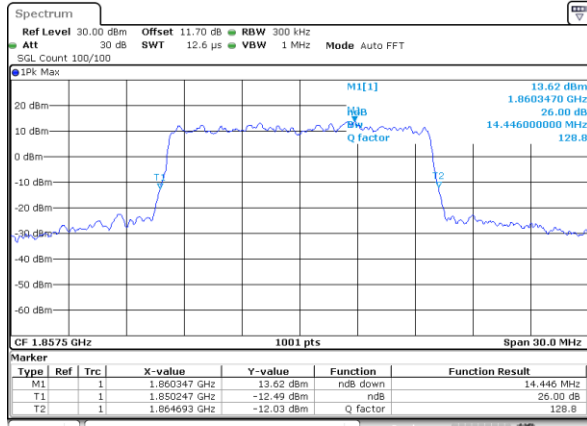


Date: 29.JAN.2020 23:19:18

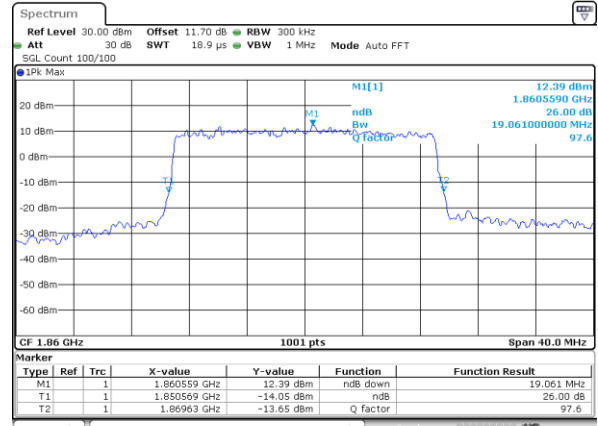


LTE Band 25

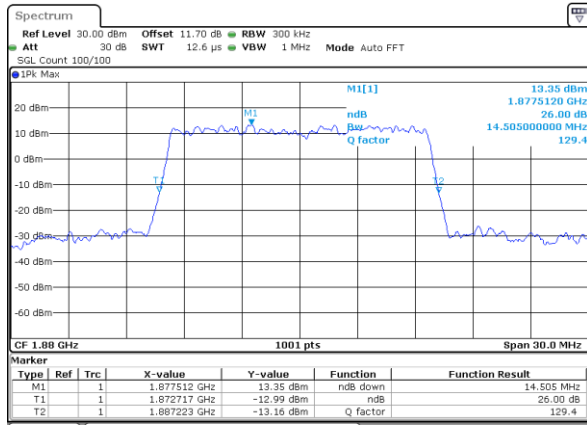
Lowest Channel / 15MHz / 64QAM



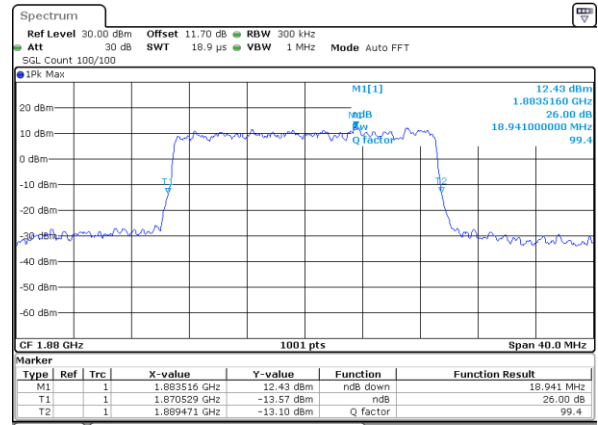
Lowest Channel / 20MHz / 64QAM



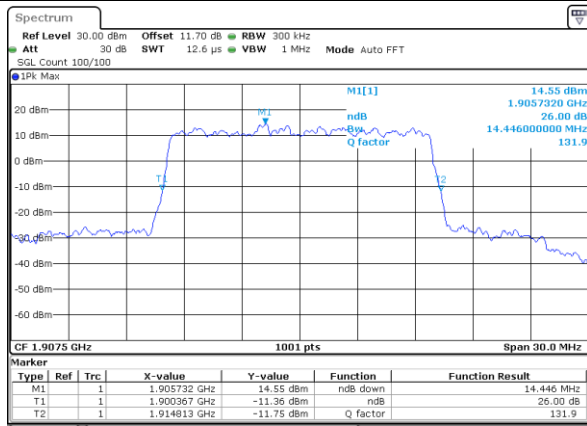
Middle Channel / 15MHz / 64QAM



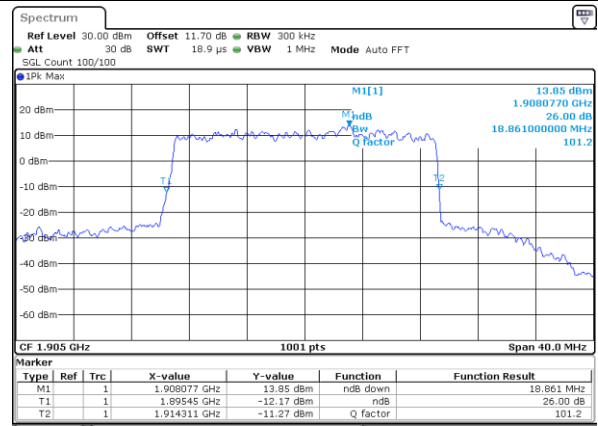
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



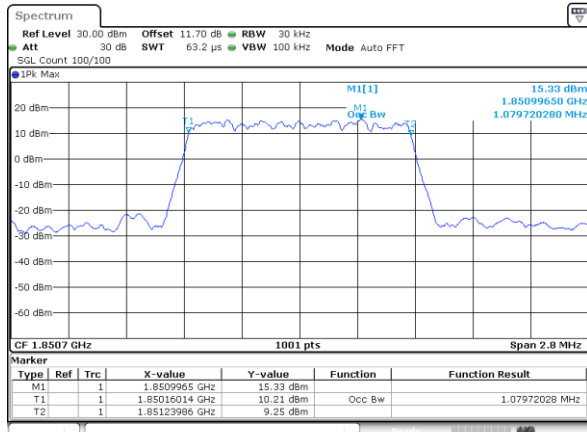
**Occupied Bandwidth**

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	1.08	1.08	2.72	2.71	4.48	4.49	9.01	8.97	13.43	13.40	17.90	17.90
Middle CH	1.09	1.09	2.72	2.72	4.49	4.50	9.01	8.99	13.43	13.40	17.90	17.90
Highest CH	1.08	1.09	2.71	2.70	4.48	4.50	9.03	9.03	13.46	13.49	17.90	17.98
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	-	4.50	-	8.99	-	13.40	-	17.82	-
Middle CH	1.09	-	2.71	-	4.50	-	8.99	-	13.43	-	17.86	-
Highest CH	1.09	-	2.72	-	4.49	-	8.99	-	13.40	-	17.82	-

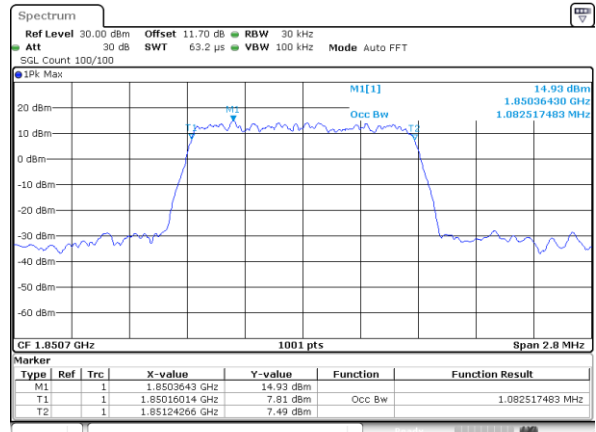


LTE Band 25

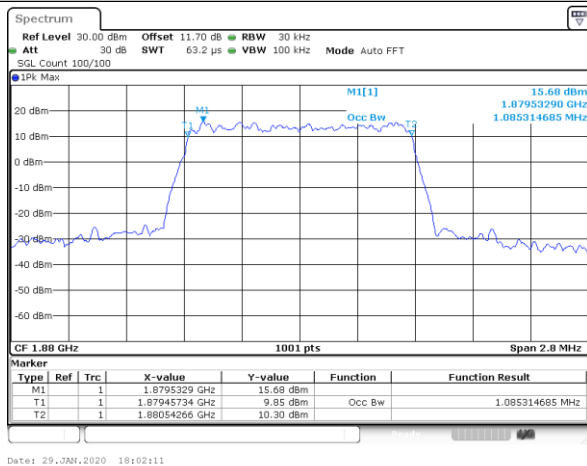
Lowest Channel / 1.4MHz / QPSK



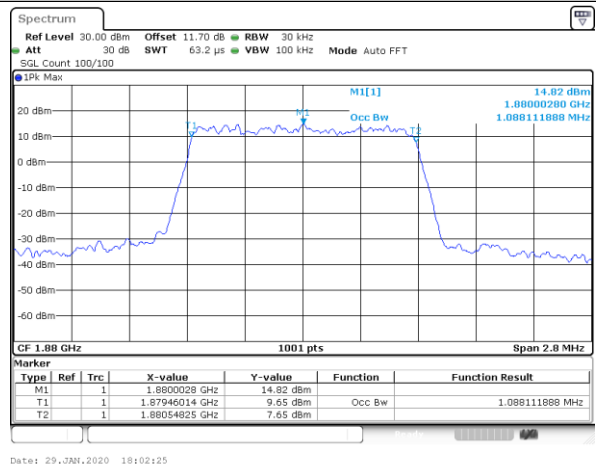
Lowest Channel / 1.4MHz / 16QAM



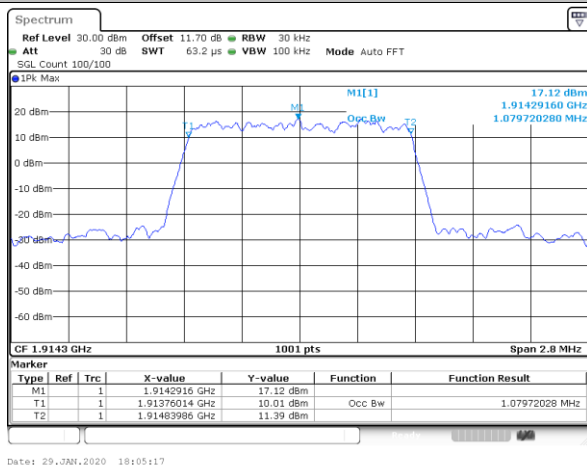
Middle Channel / 1.4MHz / QPSK



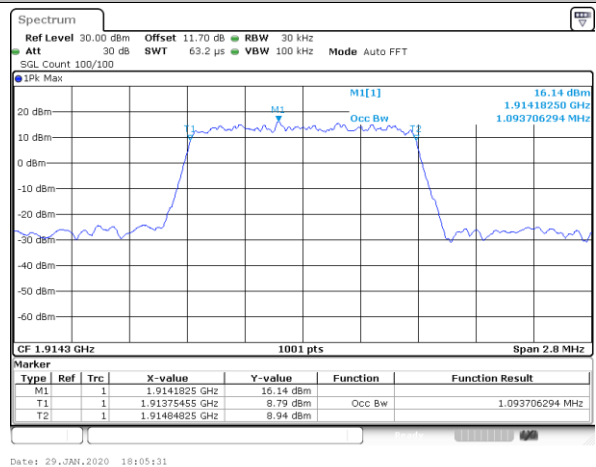
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



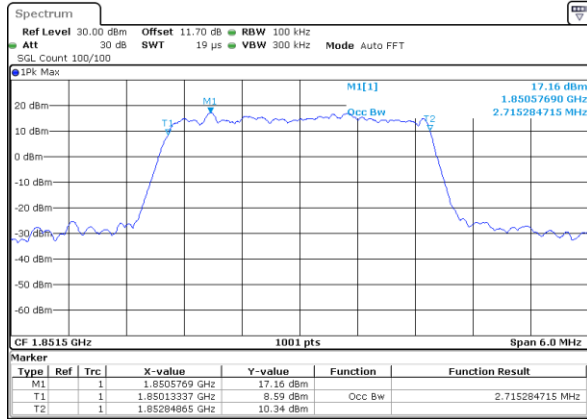
Highest Channel / 1.4MHz / 16QAM



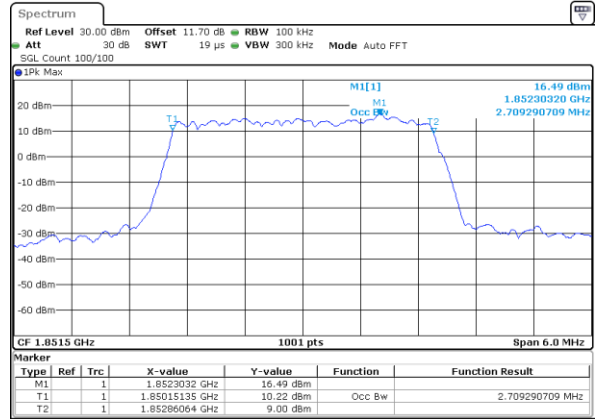


LTE Band 25

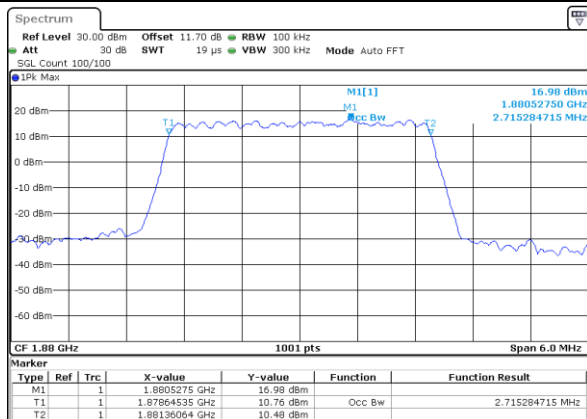
Lowest Channel / 3MHz / QPSK



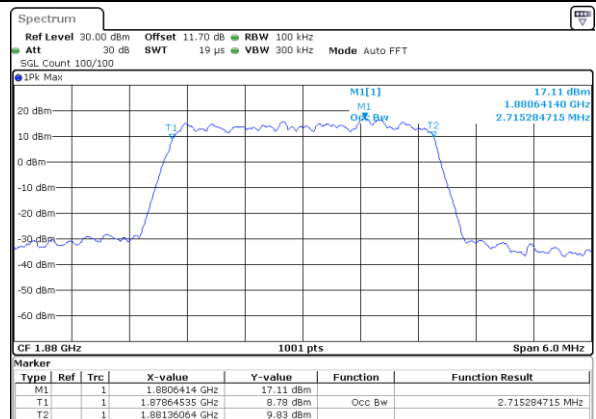
Lowest Channel / 3MHz / 16QAM



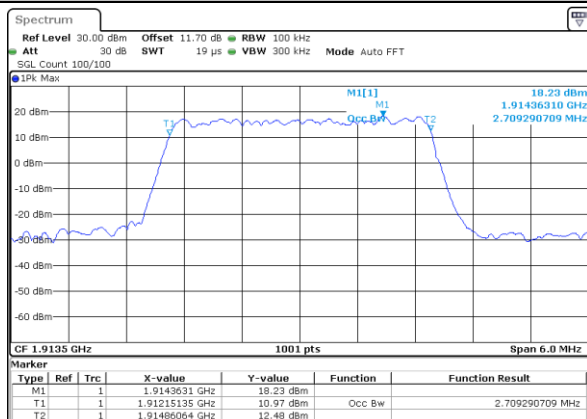
Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



Highest Channel / 3MHz / 16QAM

