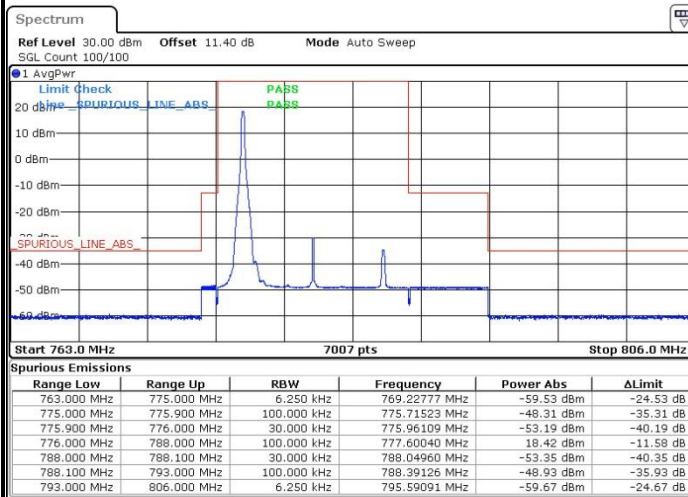




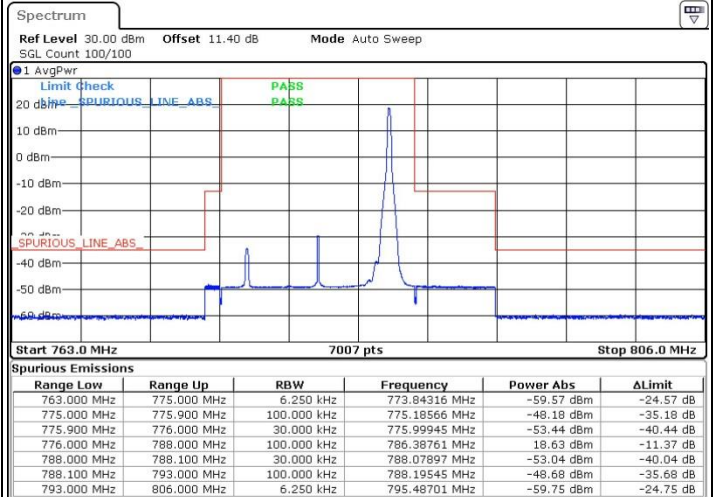
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



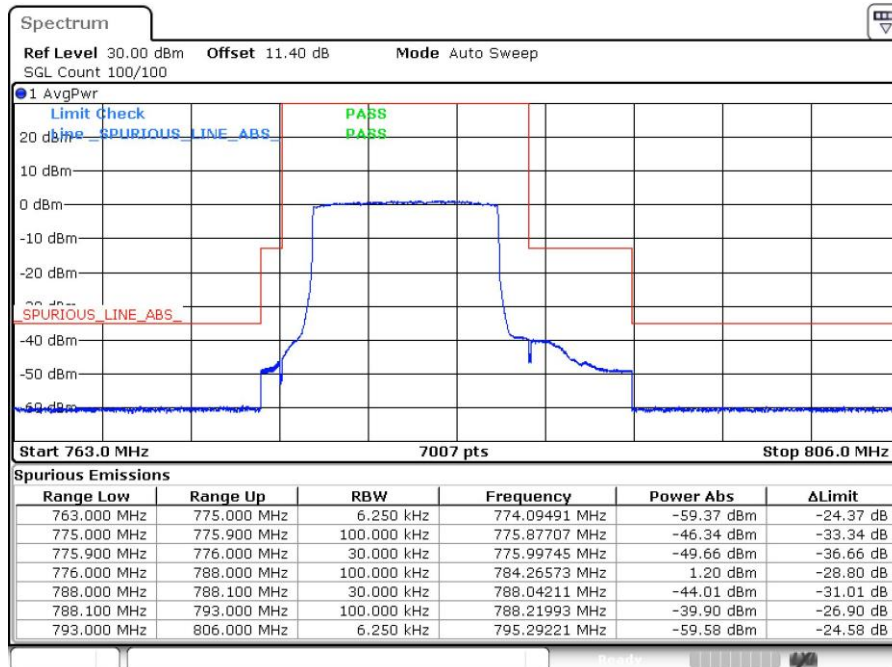
Date: 13.SEP.2018 18:13:28

Highest Band Edge / 1 RB



Date: 13.SEP.2018 18:15:08

Band Edge / Full RB



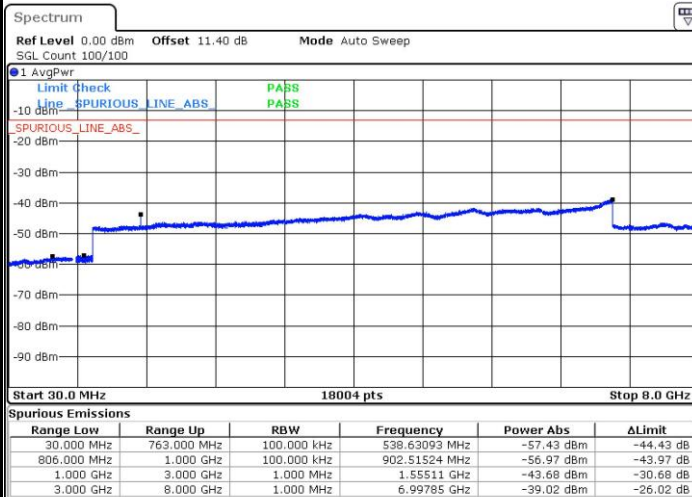
Date: 13.SEP.2018 18:11:47



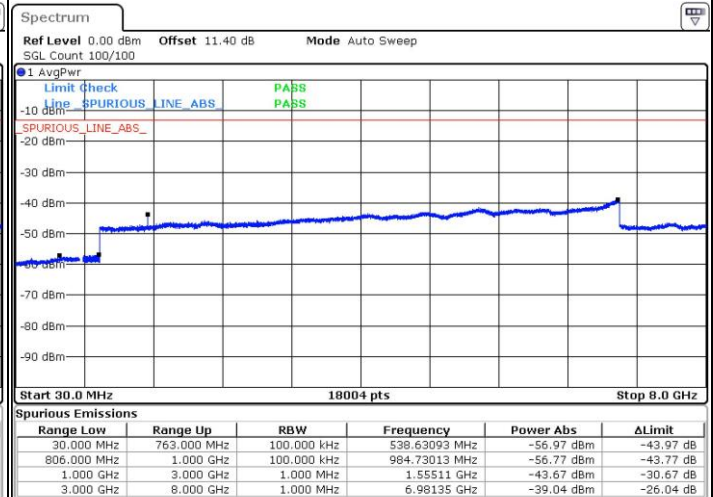
Conducted Spurious Emission

LTE Band 13 / 5MHz

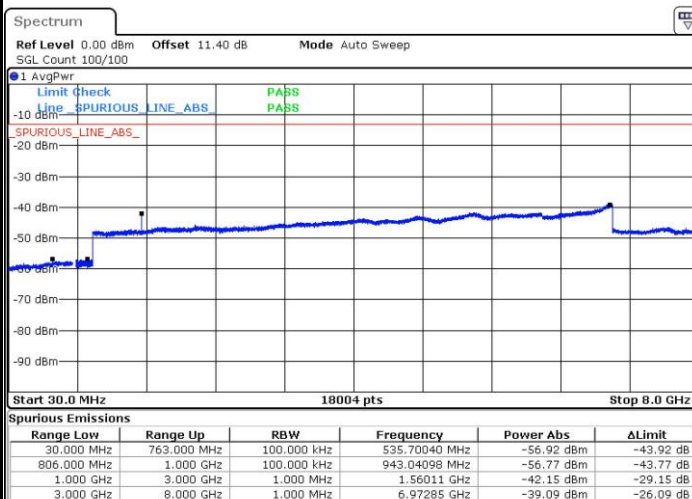
Lowest Channel / QPSK



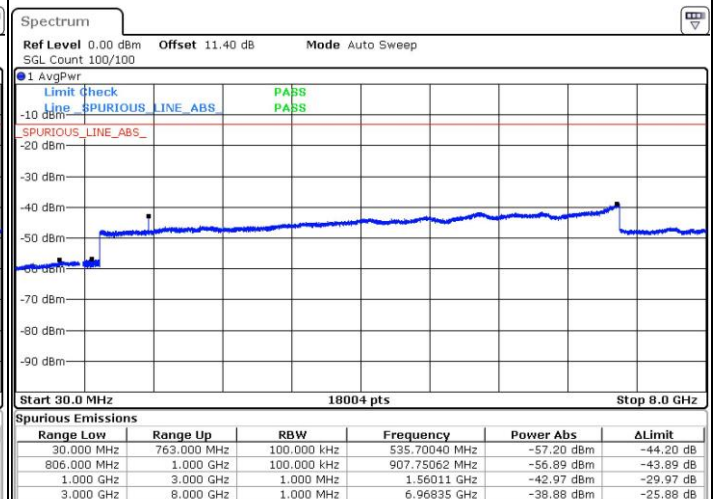
Lowest Channel / 16QAM



Middle Channel / QPSK



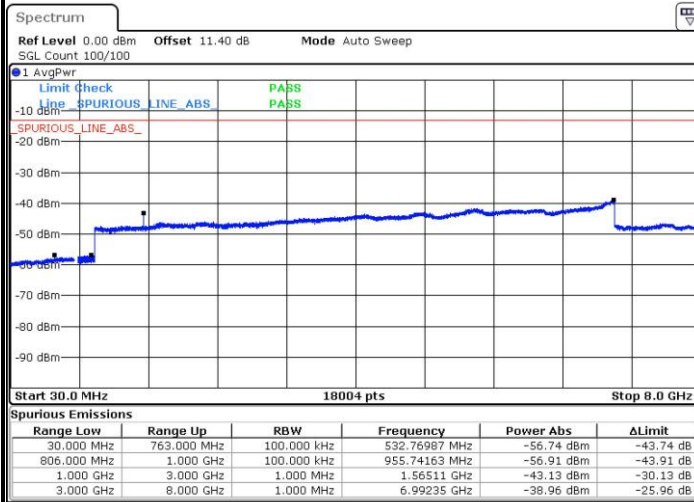
Middle Channel / 16QAM





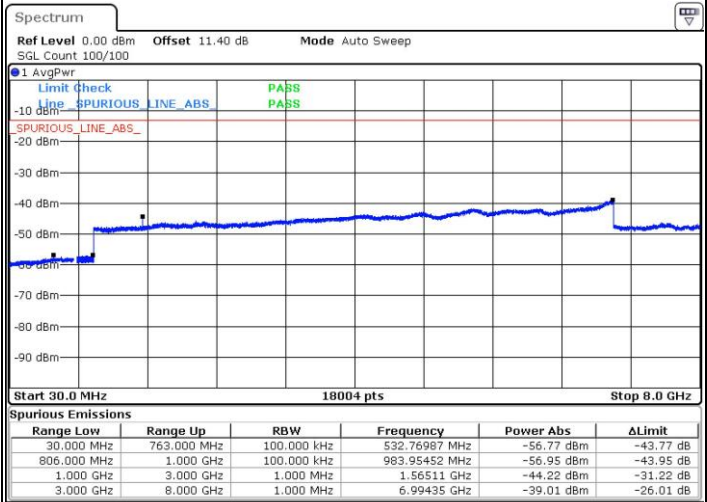
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 13.SEP.2018 18:40:49

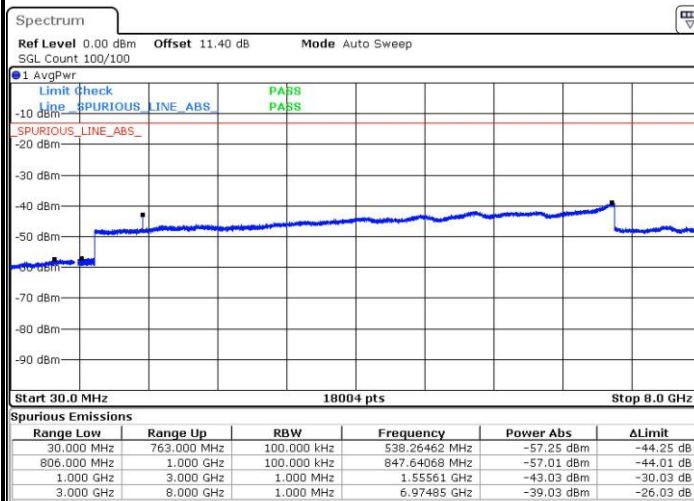
Highest Channel / 16QAM



Date: 13.SEP.2018 18:42:25

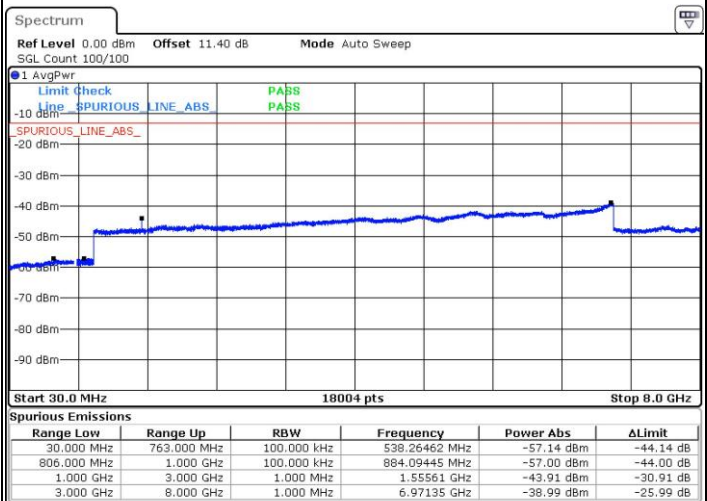
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 13.SEP.2018 18:09:40

Middle Channel / 16QAM

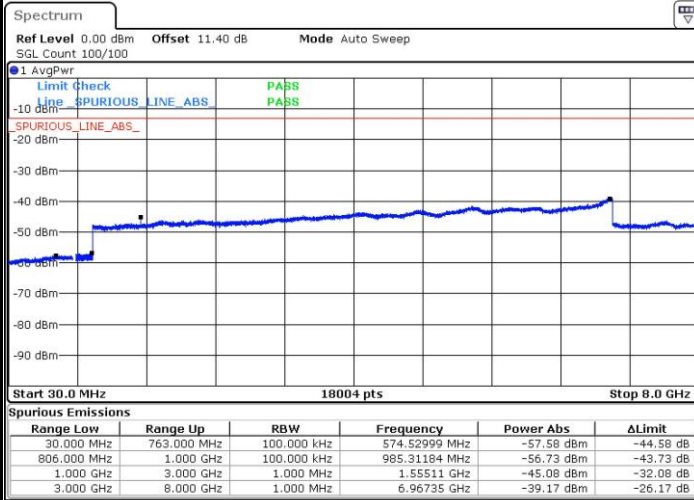


Date: 13.SEP.2018 18:08:26



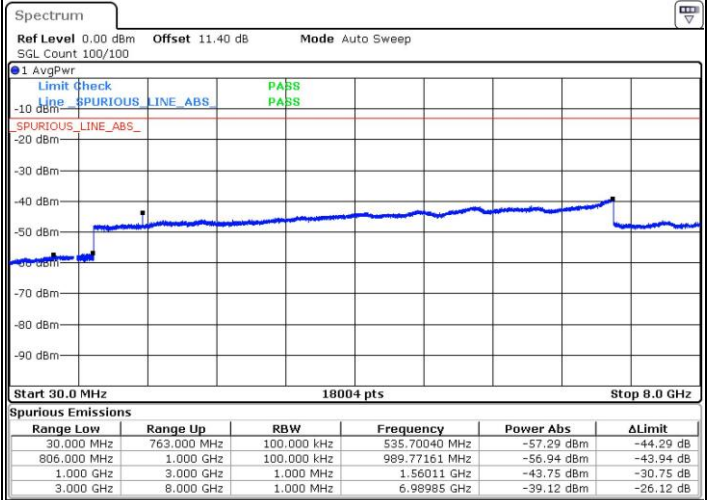
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



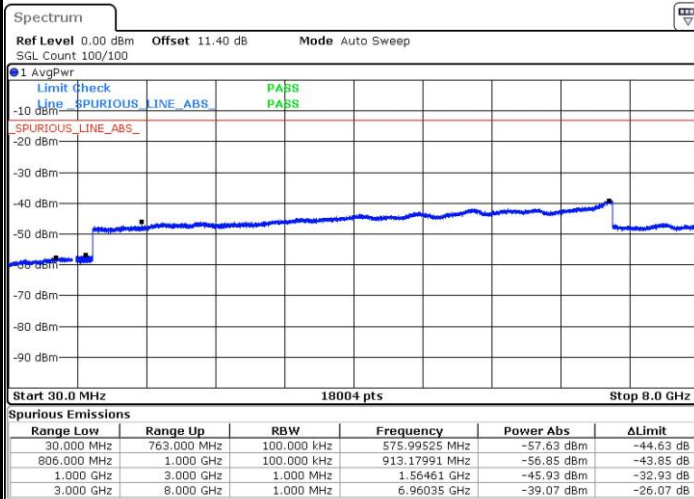
Date: 13.SEP.2018 18:24:20

Middle Channel / 64QAM



Date: 13.SEP.2018 18:25:34

Highest Channel / 64QAM

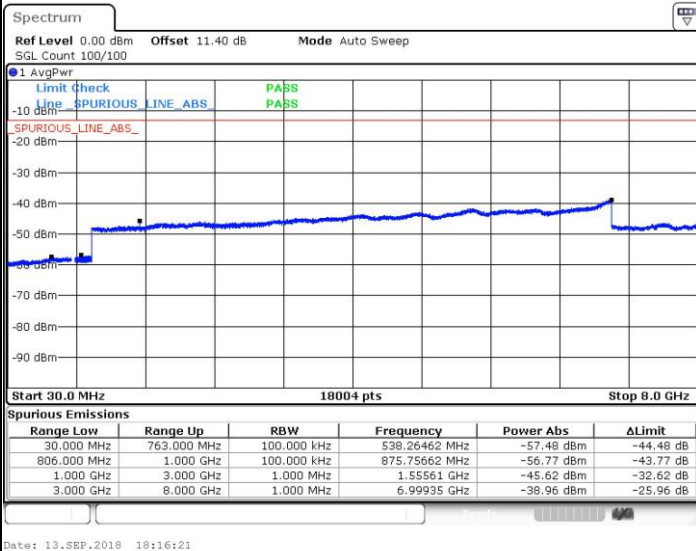


Date: 13.SEP.2018 18:31:01



LTE Band 13 / 10MHz

Middle Channel / 64QAM



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	0.0031	PASS
40	Normal Voltage	0.0040	
30	Normal Voltage	0.0032	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0129	
-30	Normal Voltage	0.0106	
20	Maximum Voltage	0.0059	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0029	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.4V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

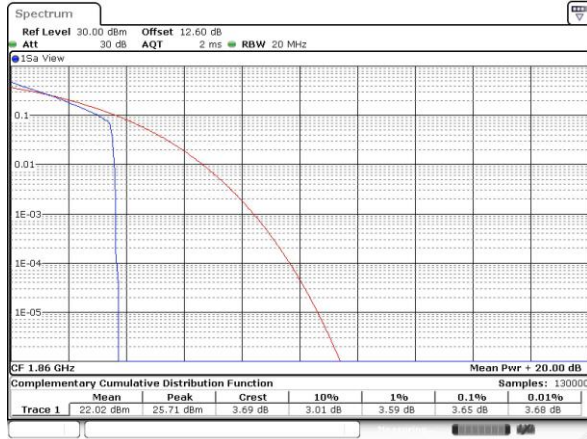
Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.65	4.55	5.04	5.94	PASS
Middle CH	3.71	4.64	5.07	6.09	
Highest CH	3.62	4.55	5.07	5.83	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.14	6.61	-	-	PASS
Middle CH	6.93	6.75	-	-	
Highest CH	6.29	6.58	-	-	

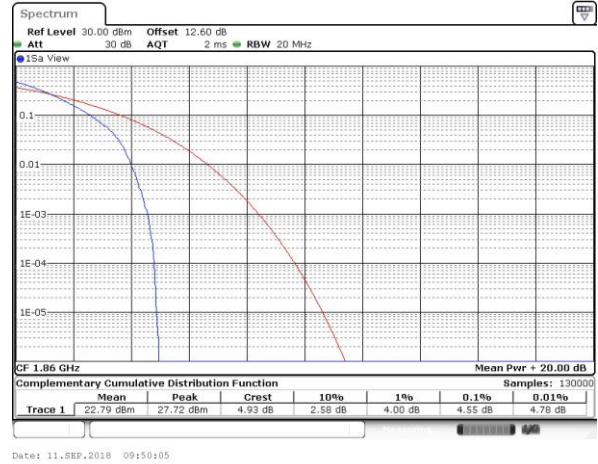


LTE Band 25 / 20MHz / QPSK

Lowest Channel / 1RB



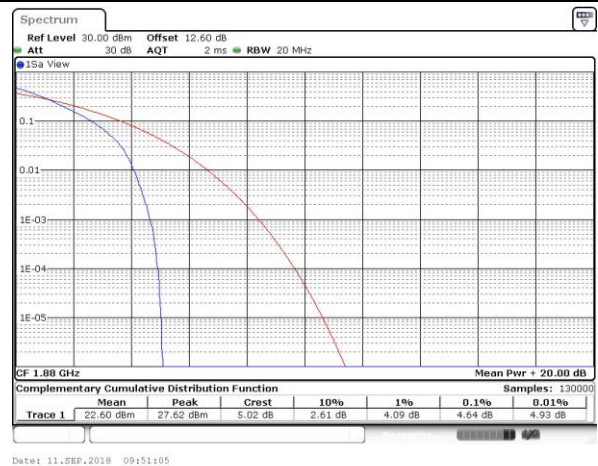
Lowest Channel / Full RB



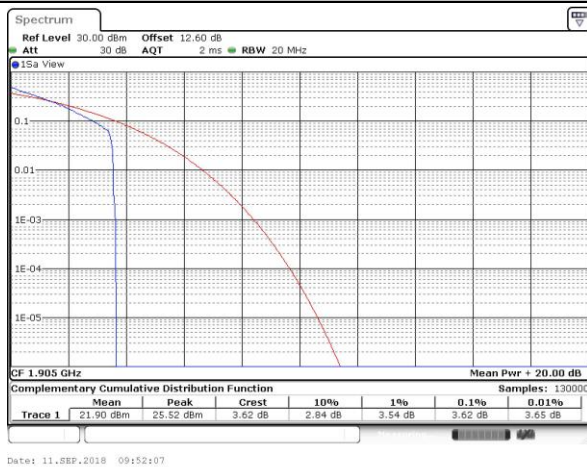
Middle Channel / 1RB



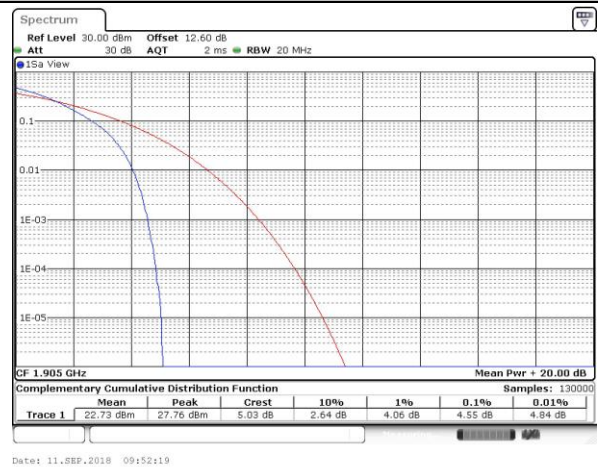
Middle Channel / Full RB



Highest Channel / 1RB



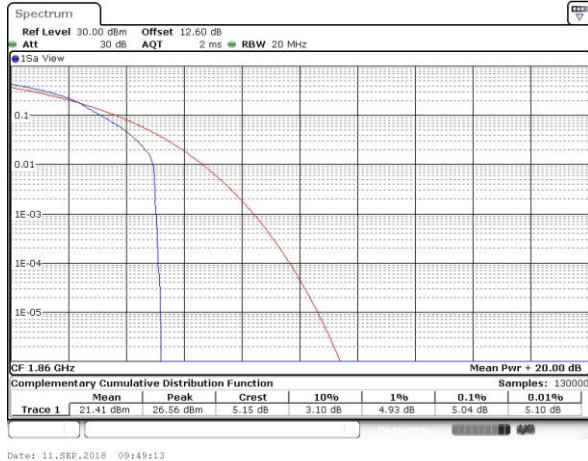
Highest Channel / Full RB



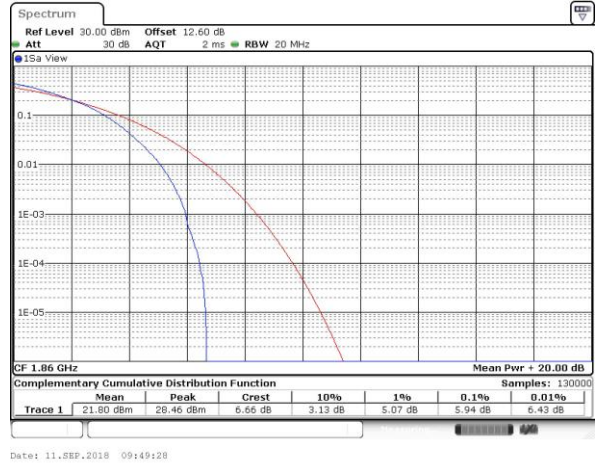


LTE Band 25 / 20MHz / 16QAM

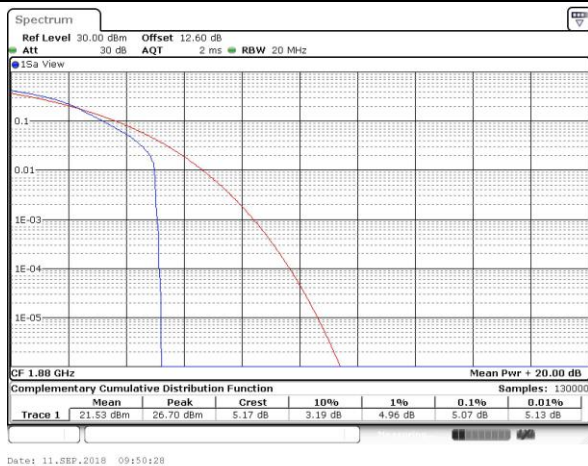
Lowest Channel / 1RB



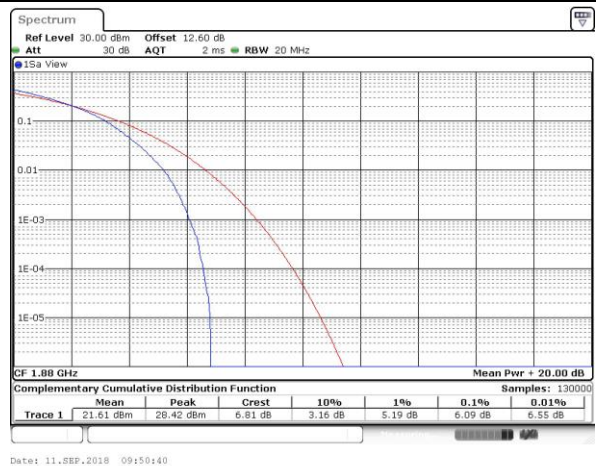
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB

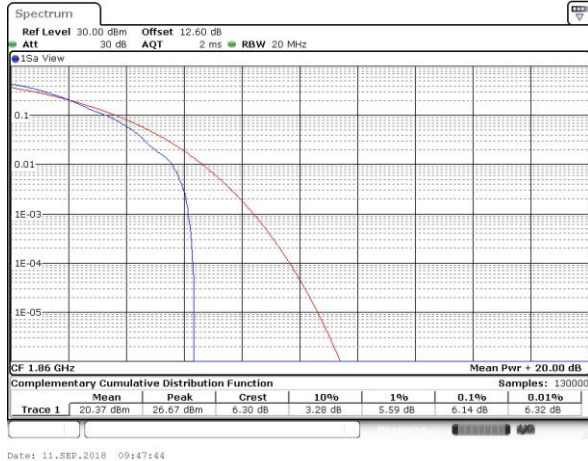
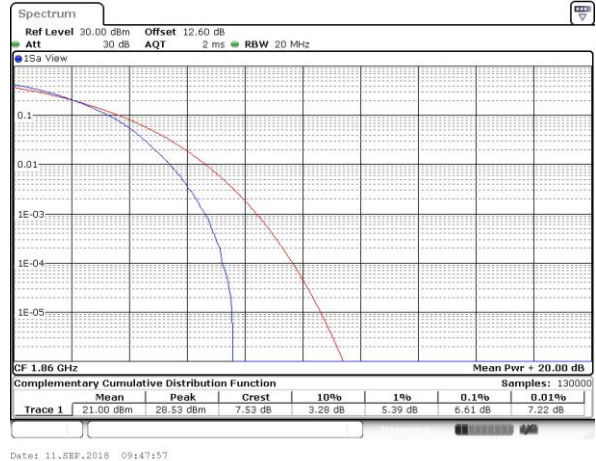
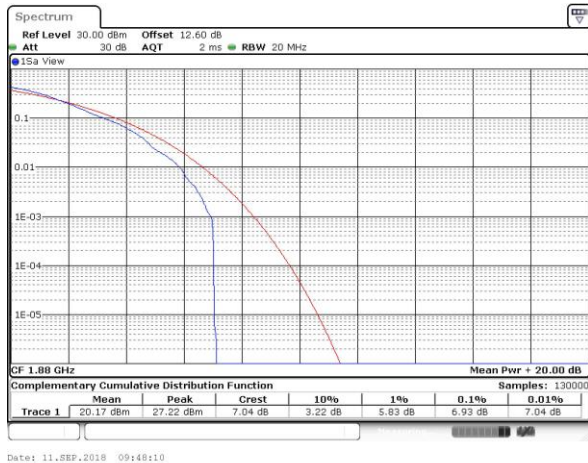
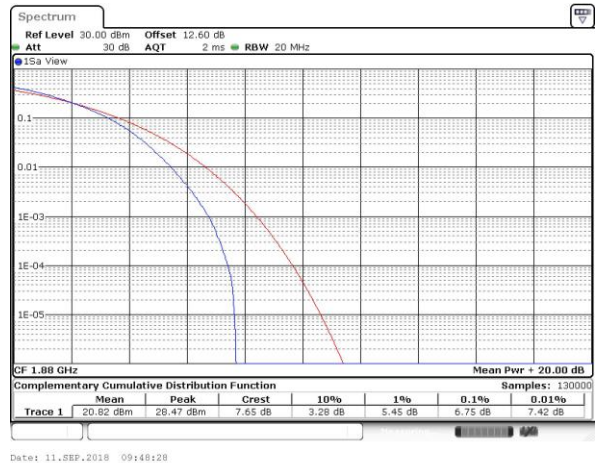
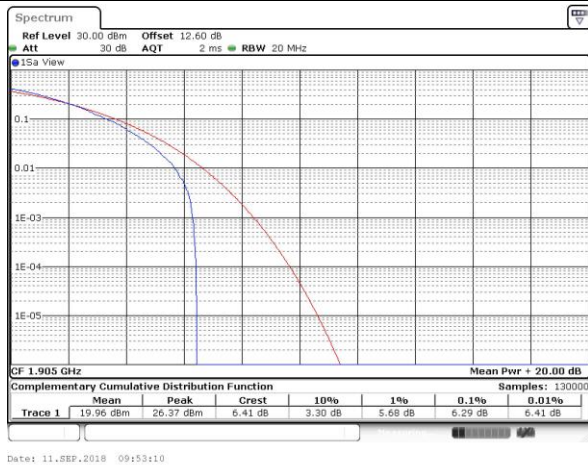
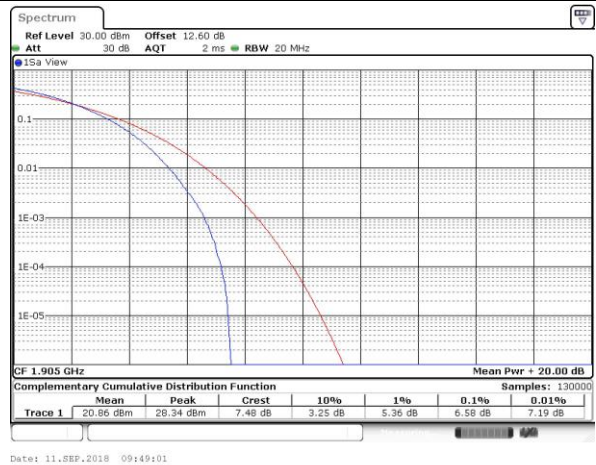


Highest Channel / 1RB



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


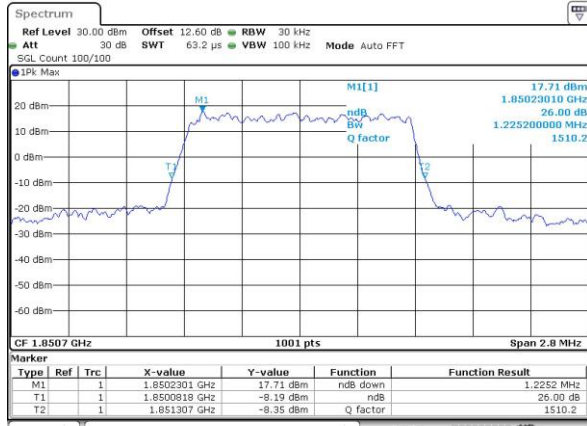
**26dB Bandwidth**

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	1.22	2.99	3.04	4.91	4.82	9.77	9.73	14.30	14.72	20.18	20.14
Middle CH	1.23	1.22	2.98	3.02	4.97	4.84	9.87	9.71	14.39	14.42	20.10	20.26
Highest CH	1.24	1.23	3.07	3.03	4.92	4.84	9.89	9.93	14.30	14.48	20.10	20.06
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.24	-	3.02	-	4.97	-	9.75	-	14.33	-	20.10	-
Middle CH	1.22	-	3.00	-	4.93	-	9.97	-	14.30	-	20.42	-
Highest CH	1.22	-	3.01	-	4.93	-	9.73	-	14.51	-	20.14	-



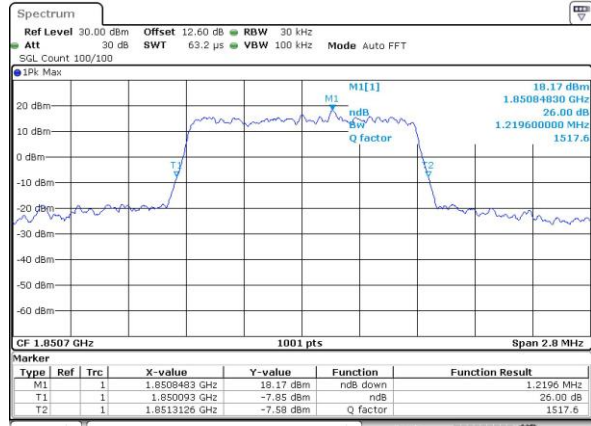
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



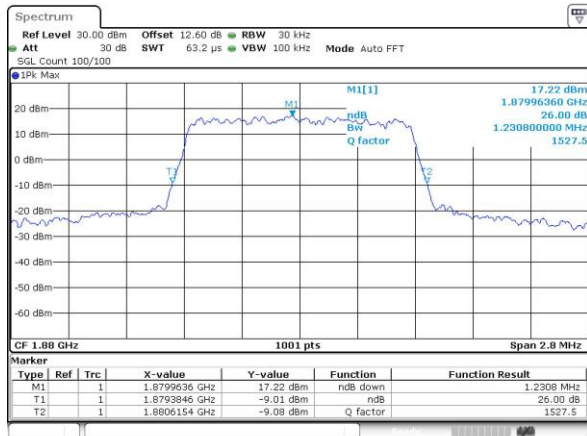
Date: 10_SEp.2018 17:40:39

Lowest Channel / 1.4MHz / 16QAM



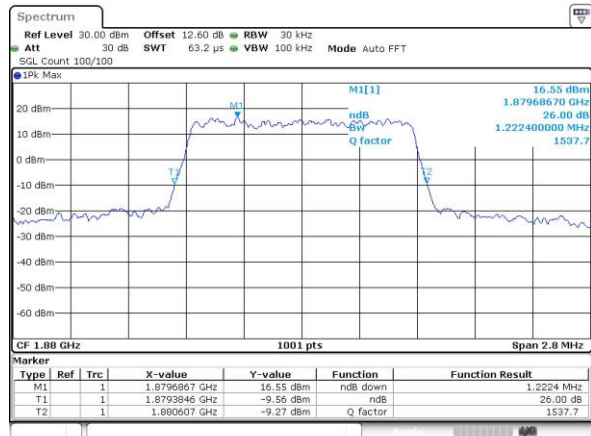
Date: 10_SEp.2018 17:40:52

Middle Channel / 1.4MHz / QPSK



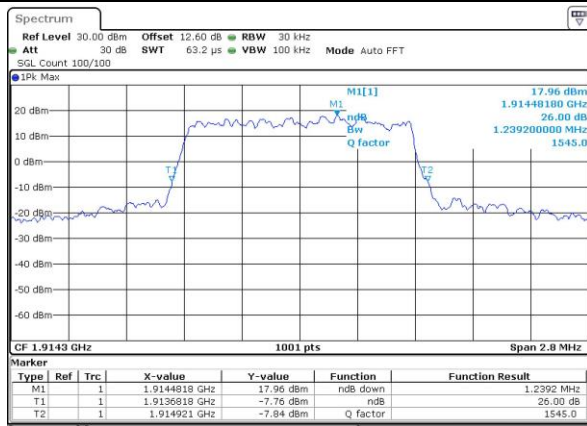
Date: 10_SEp.2018 17:48:41

Middle Channel / 1.4MHz / 16QAM



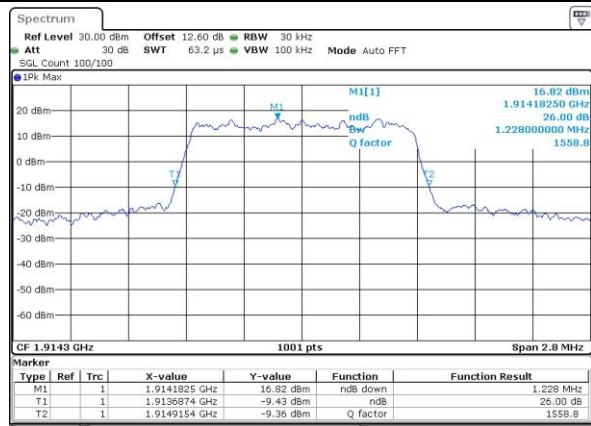
Date: 10_SEp.2018 17:48:54

Highest Channel / 1.4MHz / QPSK



Date: 10_SEp.2018 17:52:15

Highest Channel / 1.4MHz / 16QAM

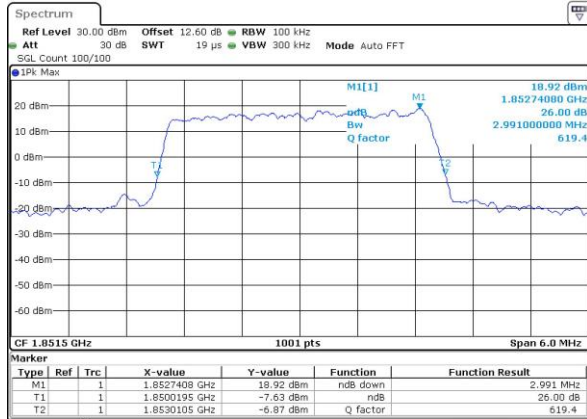


Date: 10_SEp.2018 17:52:02



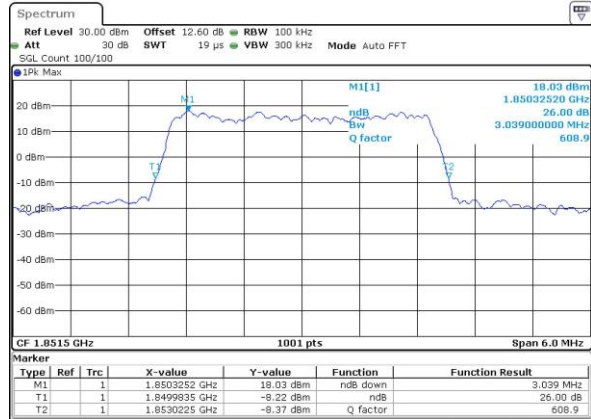
LTE Band 25

Lowest Channel / 3MHz / QPSK



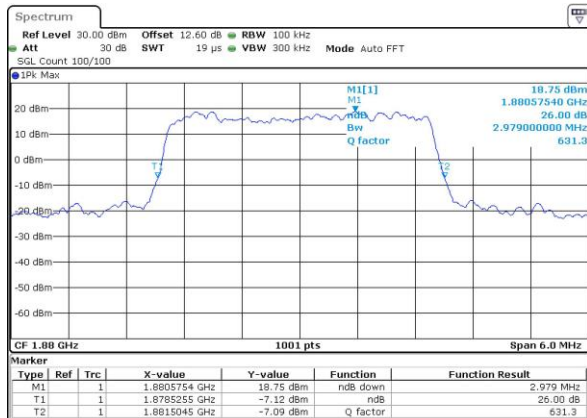
Date: 10_SEP.2018 16:02:43

Lowest Channel / 3MHz / 16QAM



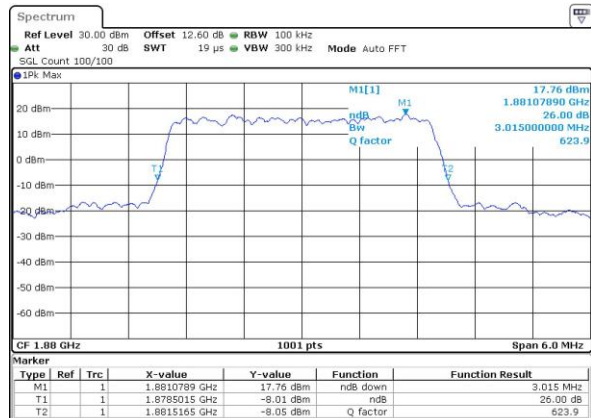
Date: 10_SEP.2018 16:02:56

Middle Channel / 3MHz / QPSK



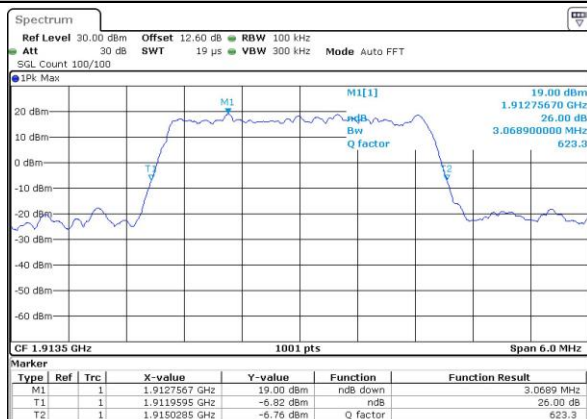
Date: 10_SEP.2018 16:10:47

Middle Channel / 3MHz / 16QAM



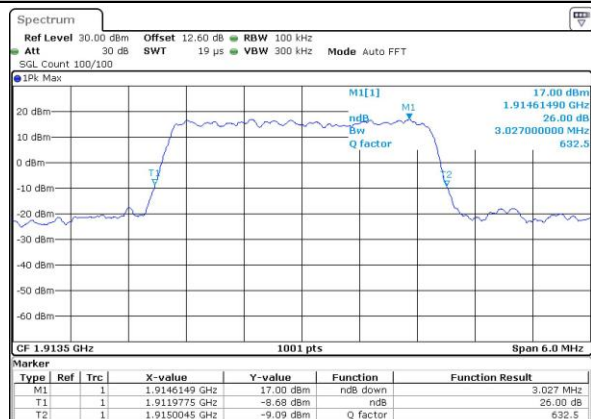
Date: 10_SEP.2018 16:11:00

Highest Channel / 3MHz / QPSK



Date: 10_SEP.2018 16:14:21

Highest Channel / 3MHz / 16QAM

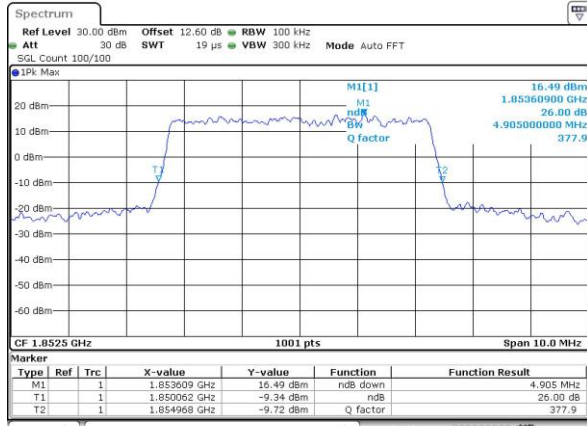


Date: 10_SEP.2018 16:14:09



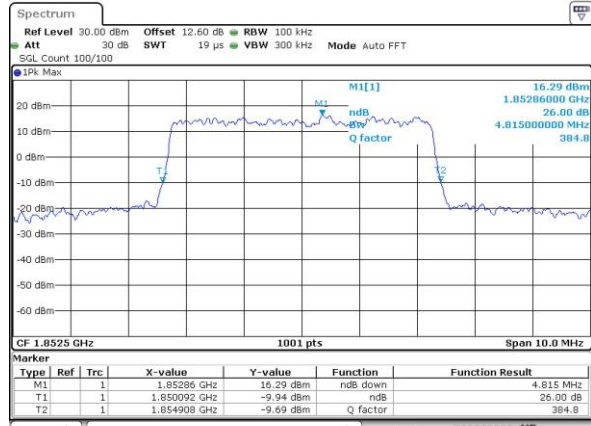
LTE Band 25

Lowest Channel / 5MHz / QPSK



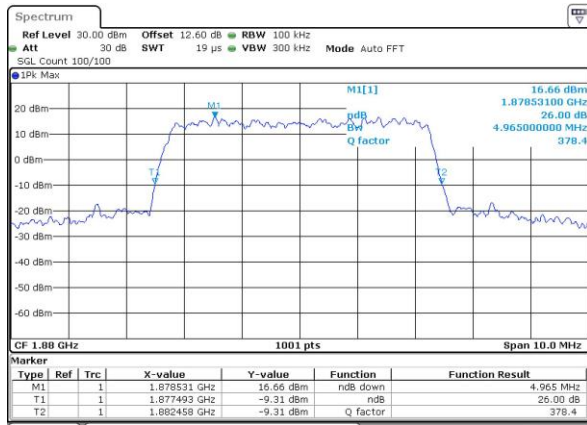
Date: 10_SEP.2018 16:22:33

Lowest Channel / 5MHz / 16QAM



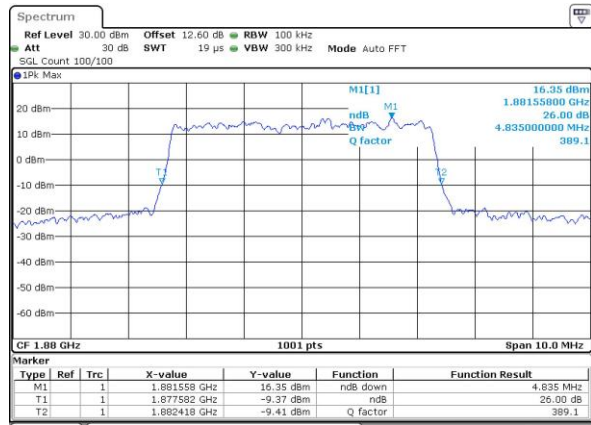
Date: 10_SEP.2018 16:22:46

Middle Channel / 5MHz / QPSK



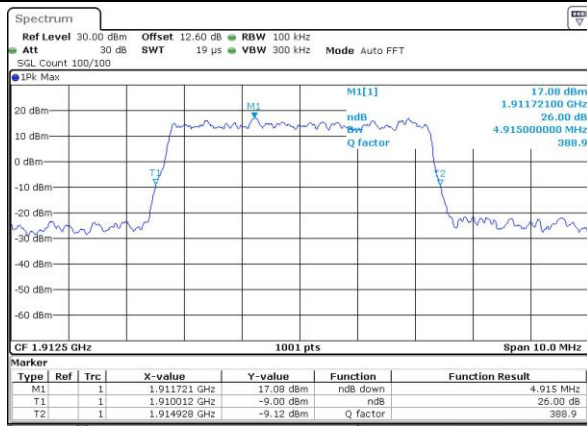
Date: 10_SEP.2018 16:30:36

Middle Channel / 5MHz / 16QAM



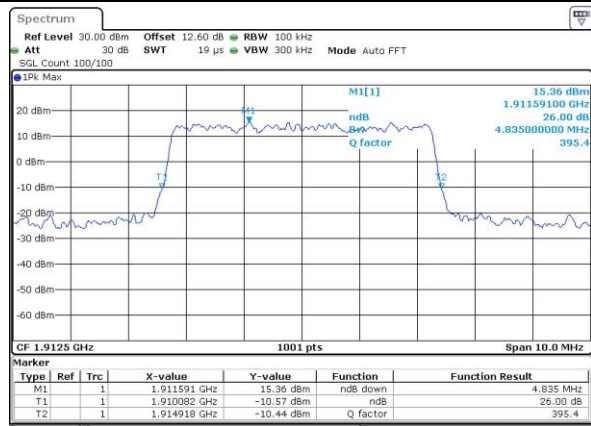
Date: 10_SEP.2018 16:30:49

Highest Channel / 5MHz / QPSK



Date: 10_SEP.2018 16:34:10

Highest Channel / 5MHz / 16QAM

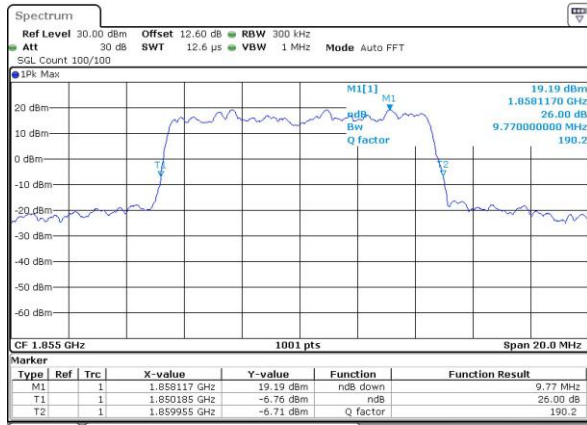


Date: 10_SEP.2018 16:33:57



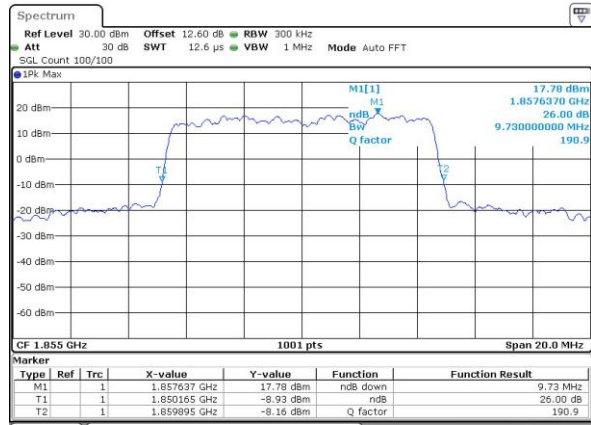
LTE Band 25

Lowest Channel / 10MHz / QPSK



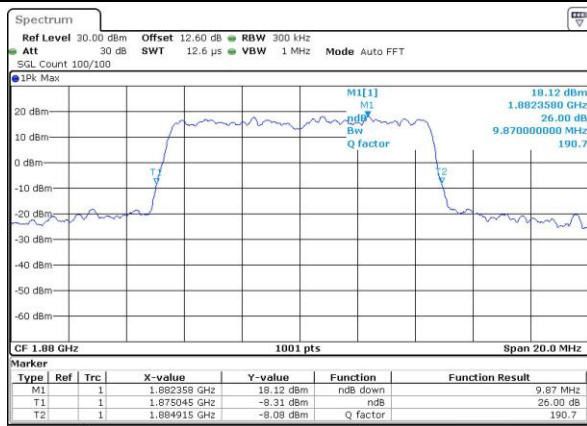
Date: 10_SEP.2018 16:42:02

Lowest Channel / 10MHz / 16QAM



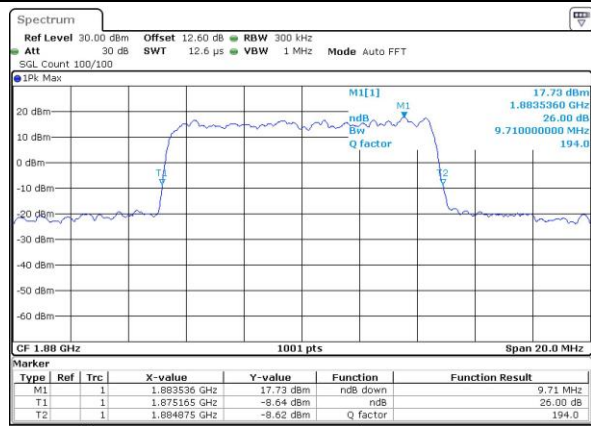
Date: 10_SEP.2018 16:42:15

Middle Channel / 10MHz / QPSK



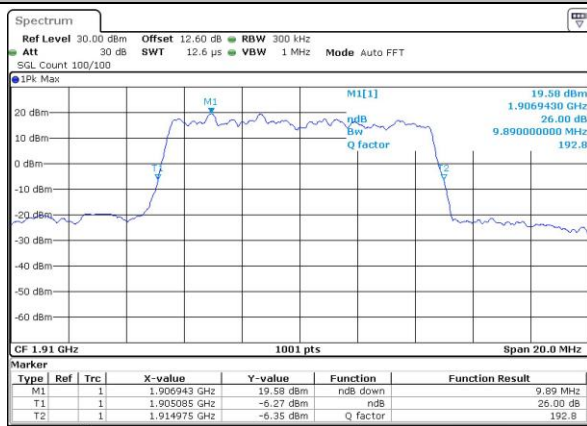
Date: 10_SEP.2018 16:56:04

Middle Channel / 10MHz / 16QAM



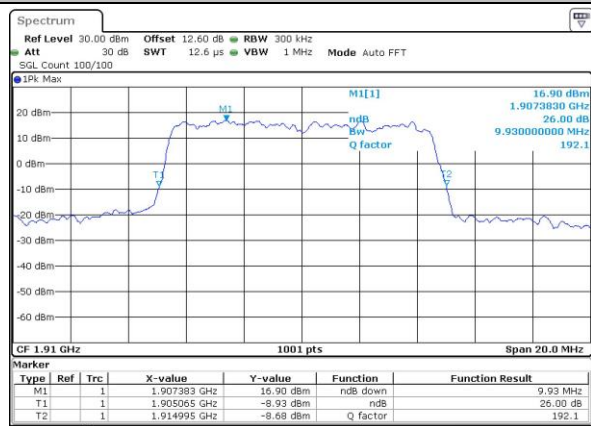
Date: 10_SEP.2018 16:56:17

Highest Channel / 10MHz / QPSK



Date: 10_SEP.2018 16:53:37

Highest Channel / 10MHz / 16QAM

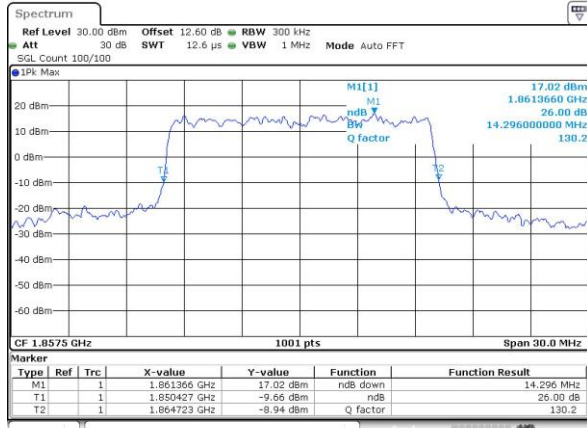


Date: 10_SEP.2018 16:53:24

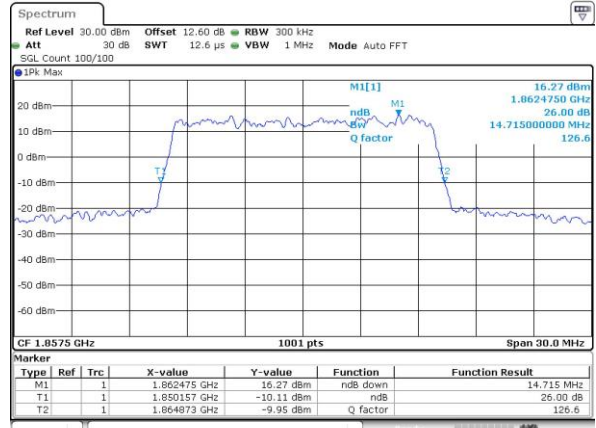


LTE Band 25

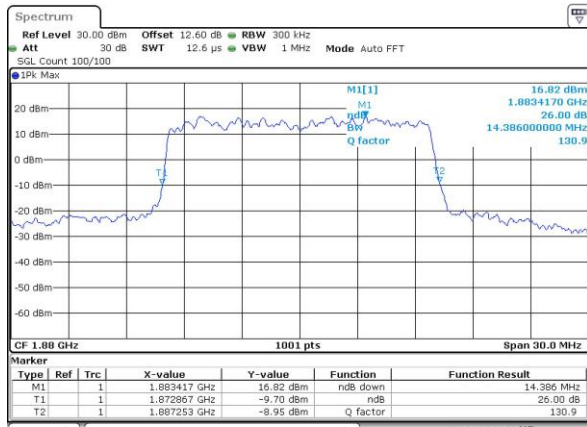
Lowest Channel / 15MHz / QPSK



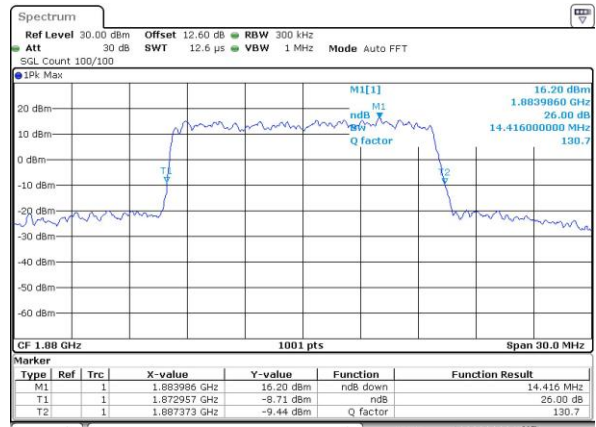
Lowest Channel / 15MHz / 16QAM



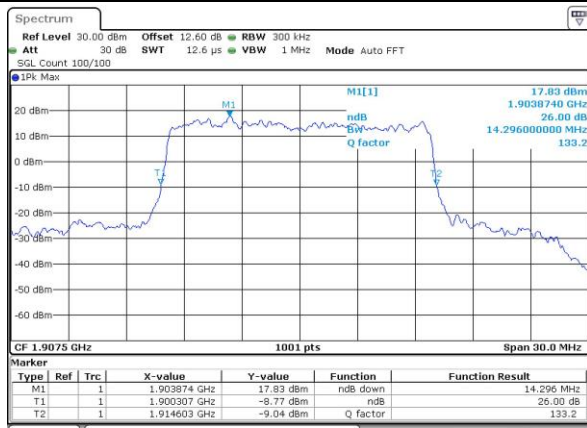
Middle Channel / 15MHz / QPSK



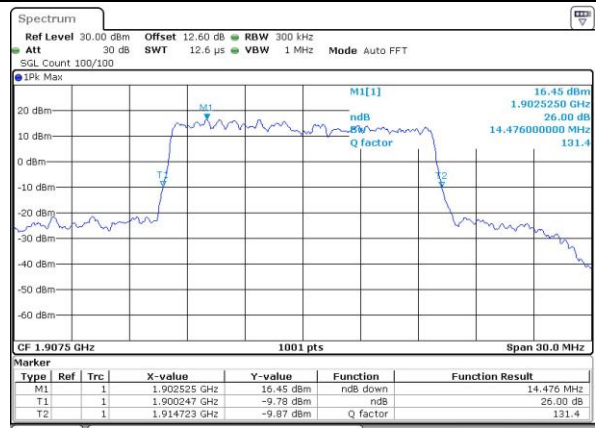
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



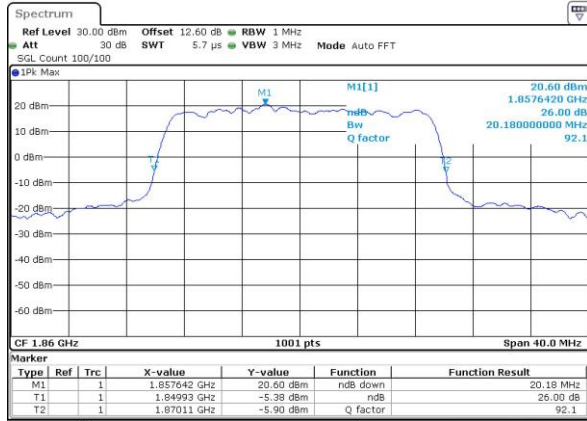
Highest Channel / 15MHz / 16QAM





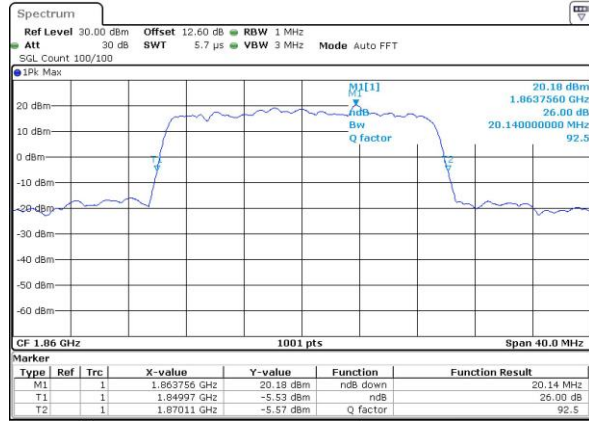
LTE Band 25

Lowest Channel / 20MHz / QPSK



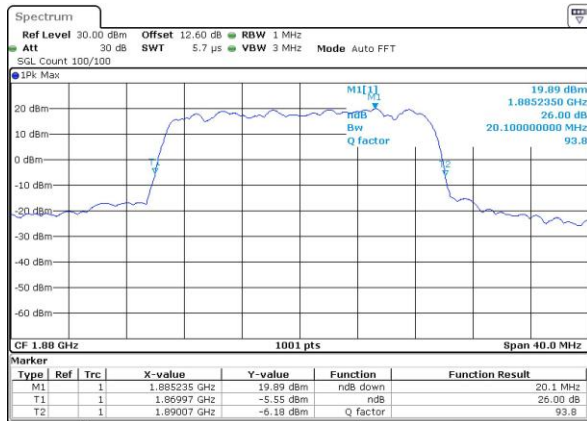
Date: 10_SEp.2018 17:20:51

Lowest Channel / 20MHz / 16QAM



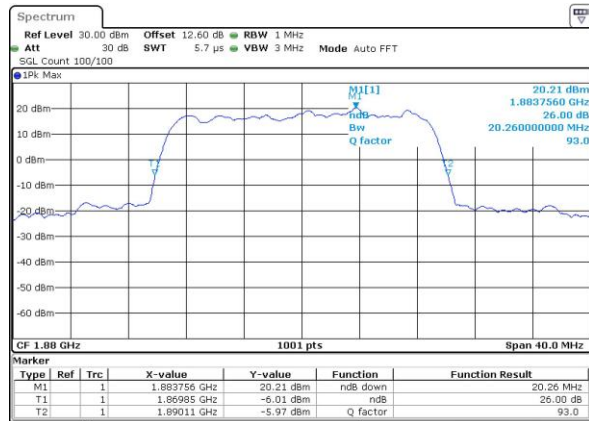
Date: 10_SEp.2018 17:21:04

Middle Channel / 20MHz / QPSK



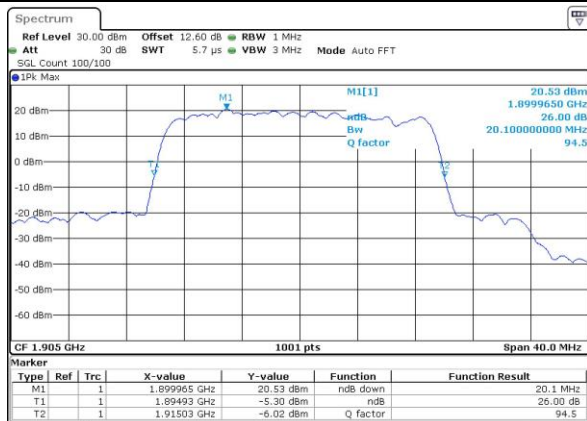
Date: 10_SEp.2018 17:28:53

Middle Channel / 20MHz / 16QAM



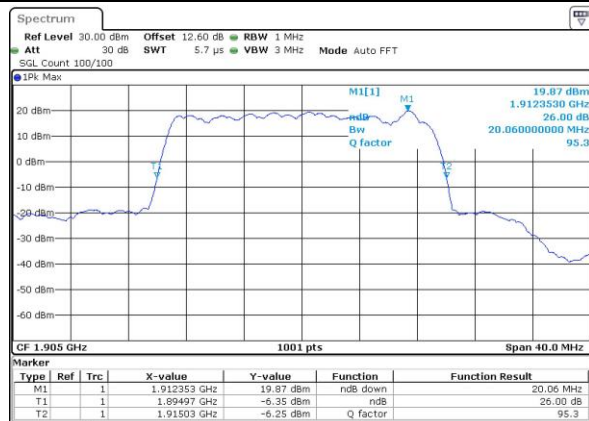
Date: 10_SEp.2018 17:29:06

Highest Channel / 20MHz / QPSK



Date: 10_SEp.2018 17:32:26

Highest Channel / 20MHz / 16QAM

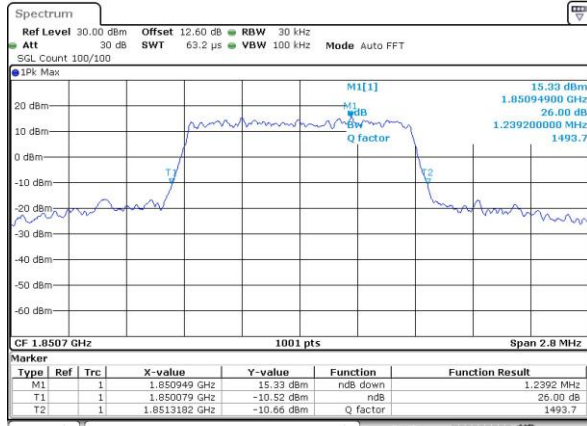


Date: 10_SEp.2018 17:32:13



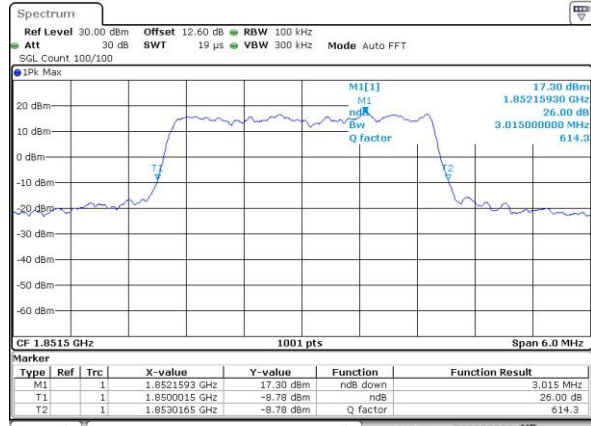
LTE Band 25

Lowest Channel / 1.4MHz / 64QAM



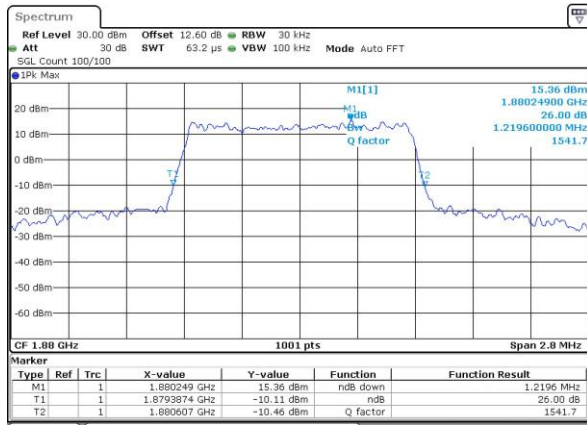
Date: 11.SEP.2018 09:37:14

Lowest Channel / 3MHz / 64QAM



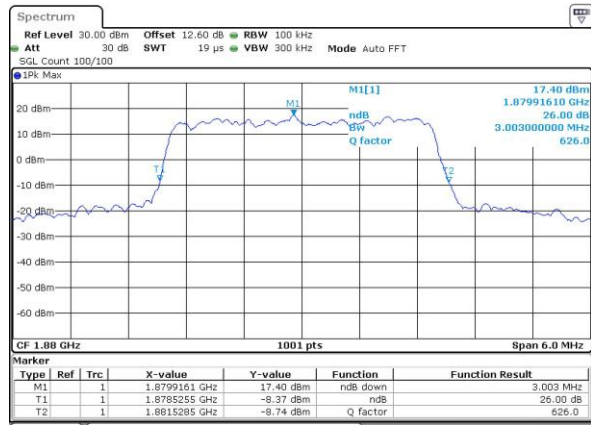
Date: 10.SEP.2018 17:58:39

Middle Channel / 1.4MHz / 64QAM



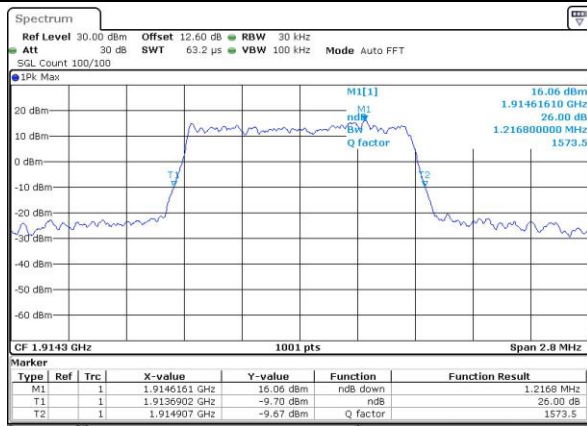
Date: 11.SEP.2018 09:41:15

Middle Channel / 3MHz / 64QAM



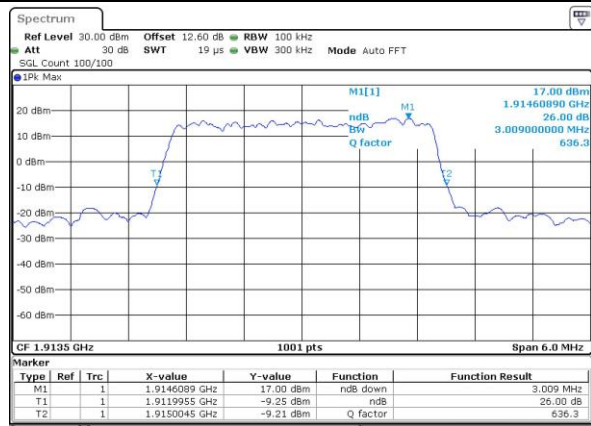
Date: 10.SEP.2018 18:02:41

Highest Channel / 1.4MHz / 64QAM



Date: 11.SEP.2018 09:42:56

Highest Channel / 3MHz / 64QAM

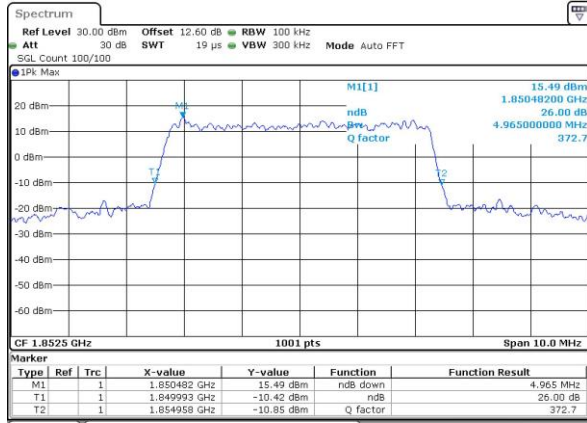


Date: 10.SEP.2018 18:04:21



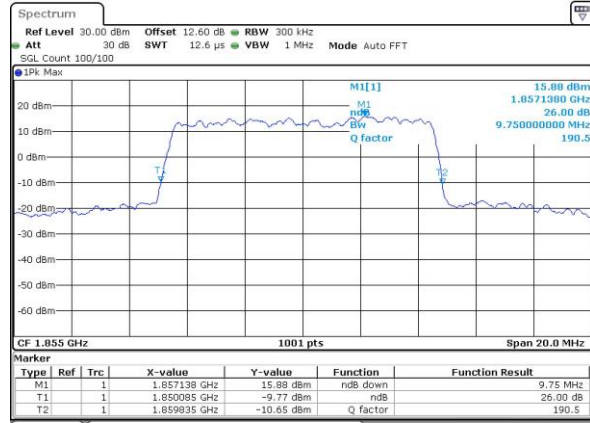
LTE Band 25

Lowest Channel / 5MHz / 64QAM



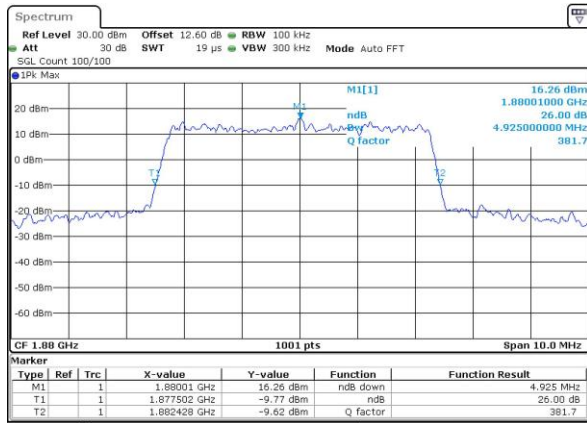
Date: 11.SEP.2018 08:57:35

Lowest Channel / 10MHz / 64QAM



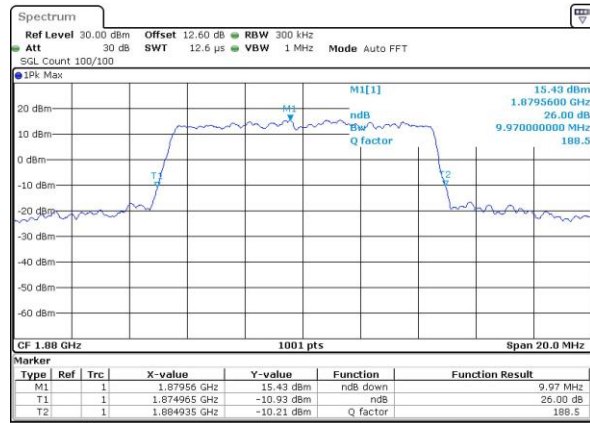
Date: 11.SEP.2018 09:07:56

Middle Channel / 5MHz / 64QAM



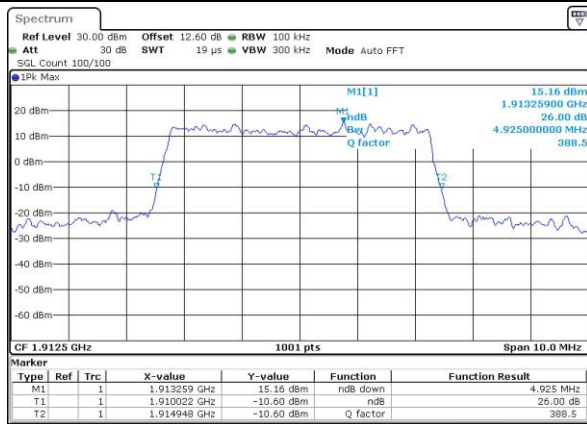
Date: 11.SEP.2018 09:55:18

Middle Channel / 10MHz / 64QAM



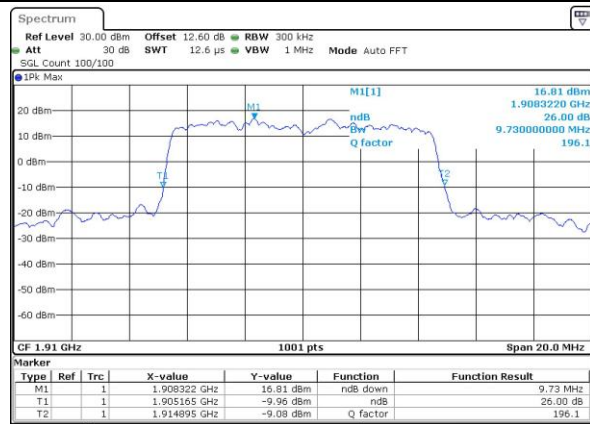
Date: 11.SEP.2018 09:11:59

Highest Channel / 5MHz / 64QAM



Date: 11.SEP.2018 09:03:52

Highest Channel / 10MHz / 64QAM

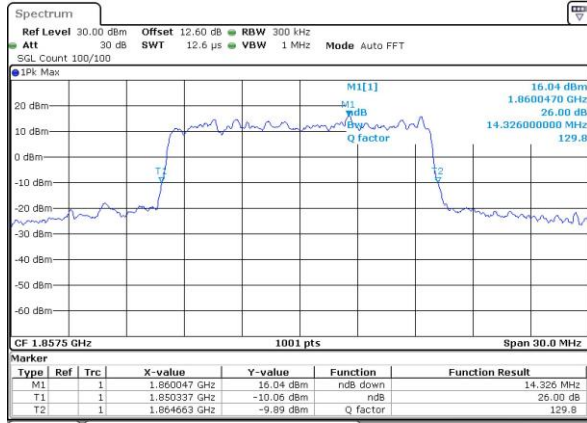


Date: 11.SEP.2018 09:13:40



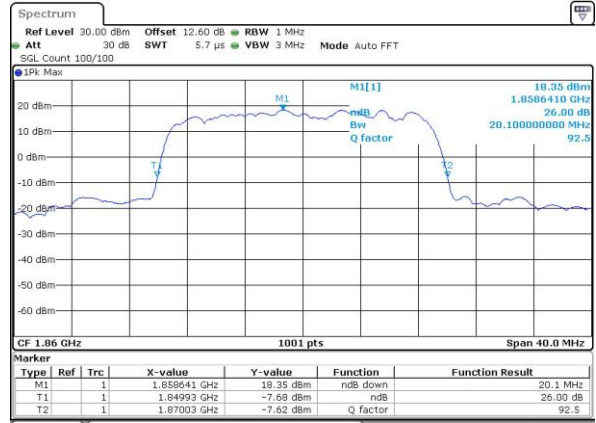
LTE Band 25

Lowest Channel / 15MHz / 64QAM



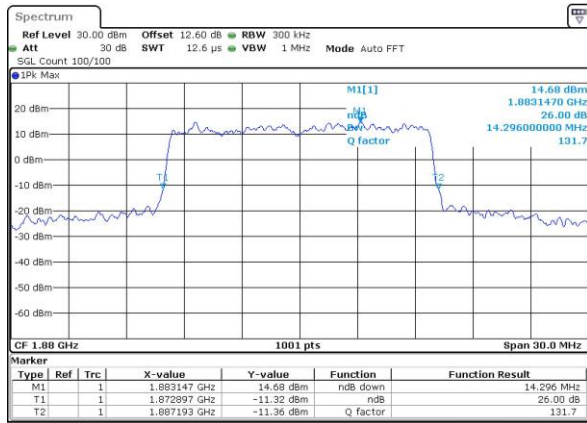
Date: 11.SEP.2018 09:17:43

Lowest Channel / 20MHz / 64QAM



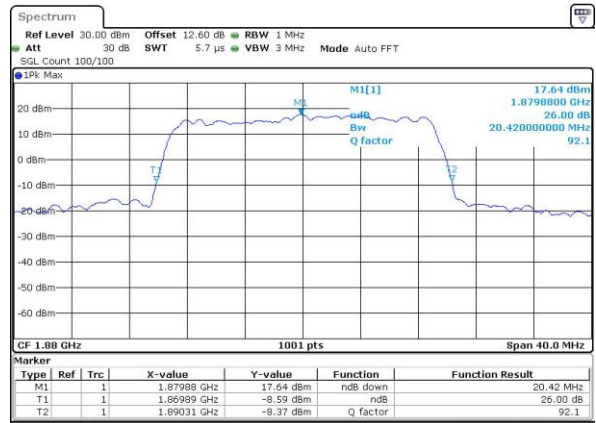
Date: 11.SEP.2018 09:17:28

Middle Channel / 15MHz / 64QAM



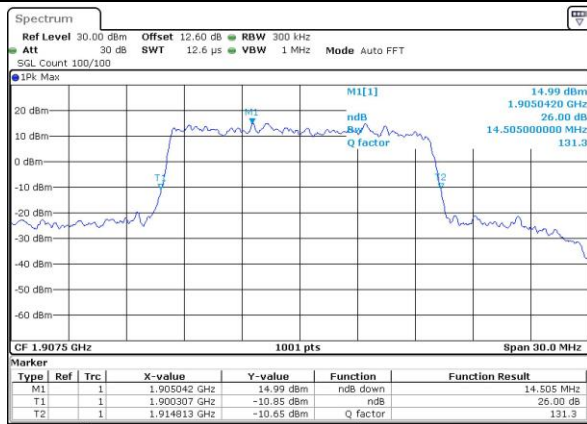
Date: 11.SEP.2018 09:21:45

Middle Channel / 20MHz / 64QAM



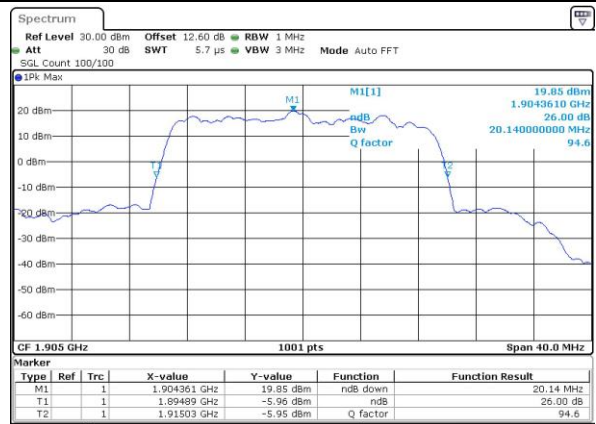
Date: 11.SEP.2018 09:13:10

Highest Channel / 15MHz / 64QAM



Date: 11.SEP.2018 09:23:25

Highest Channel / 20MHz / 64QAM



Date: 11.SEP.2018 09:33:10

**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	1.09	2.73	2.72	4.5	4.5	9.05	9.01	13.43	13.43	18.3	18.3
Middle CH	1.09	1.1	2.73	2.76	4.5	4.49	9.03	9.05	13.46	13.4	18.38	18.22
Highest CH	1.09	1.09	2.73	2.7	4.49	4.52	9.03	9.07	13.37	13.46	18.3	18.14
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	-	4.52	-	9.01	-	13.37	-	18.34	-
Middle CH	1.09	-	2.73	-	4.52	-	9.07	-	13.37	-	18.22	-
Highest CH	1.09	-	2.73	-	4.50	-	9.01	-	13.40	-	18.26	-