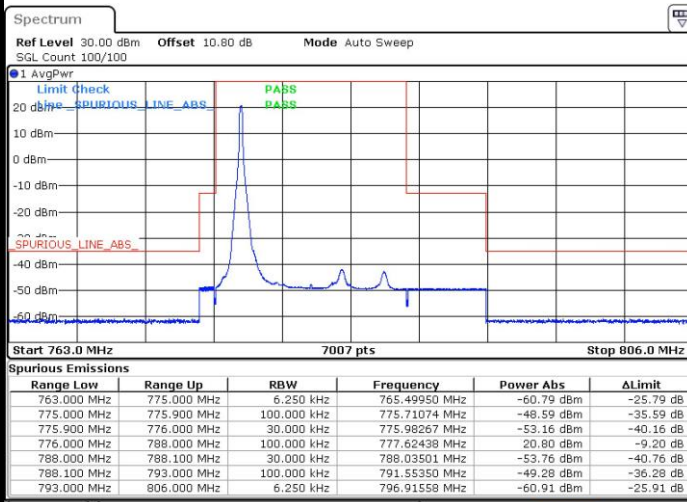




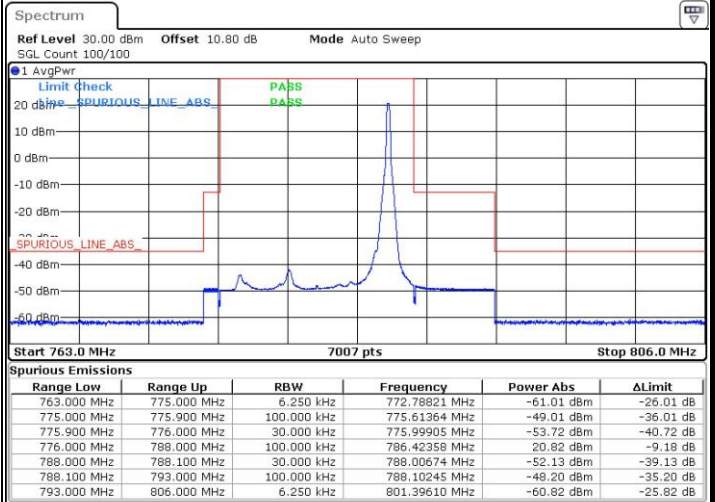
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



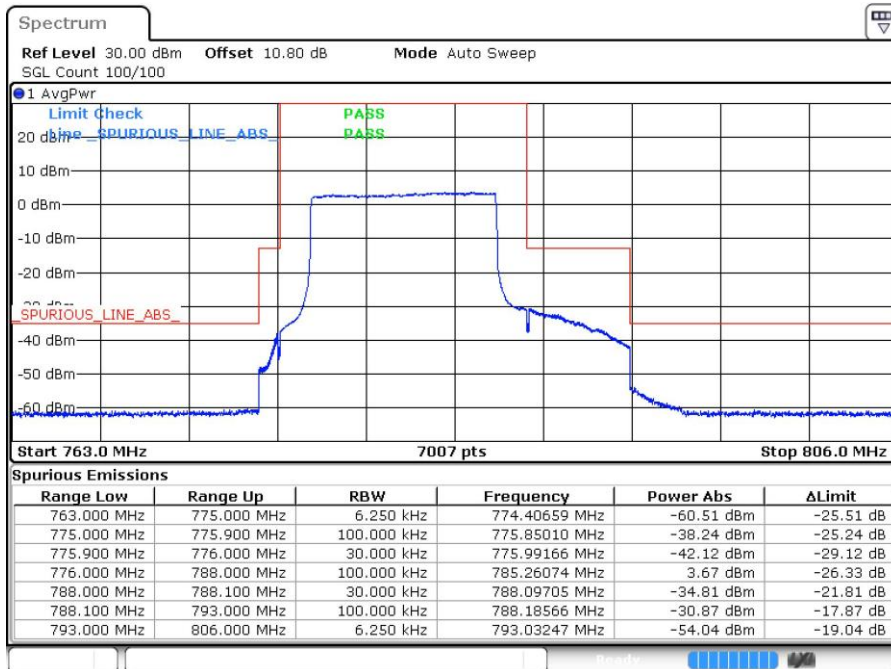
Date: 26 JUN 2019 07:34:42

Highest Band Edge / 1 RB



Date: 26 JUN 2019 07:36:23

Band Edge / Full RB

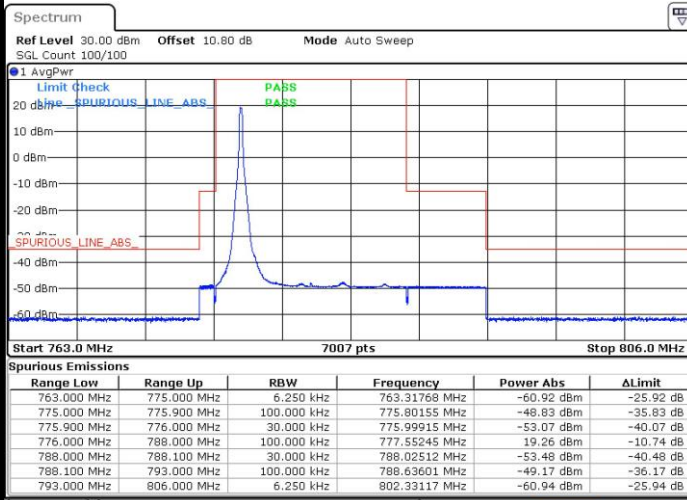


Date: 26 JUN 2019 07:29:40



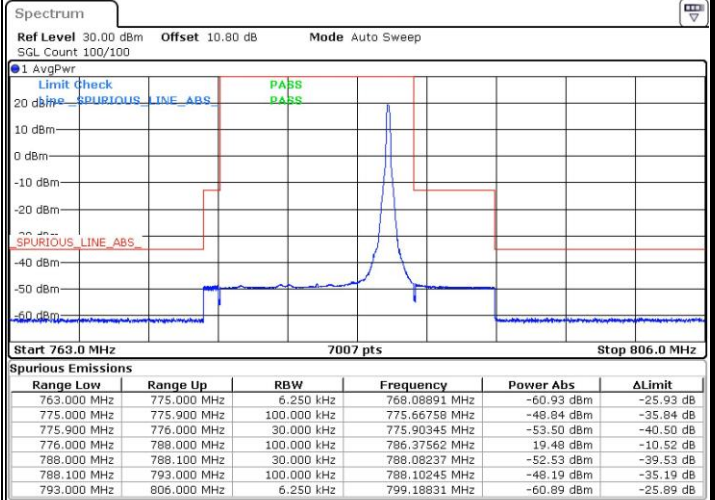
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



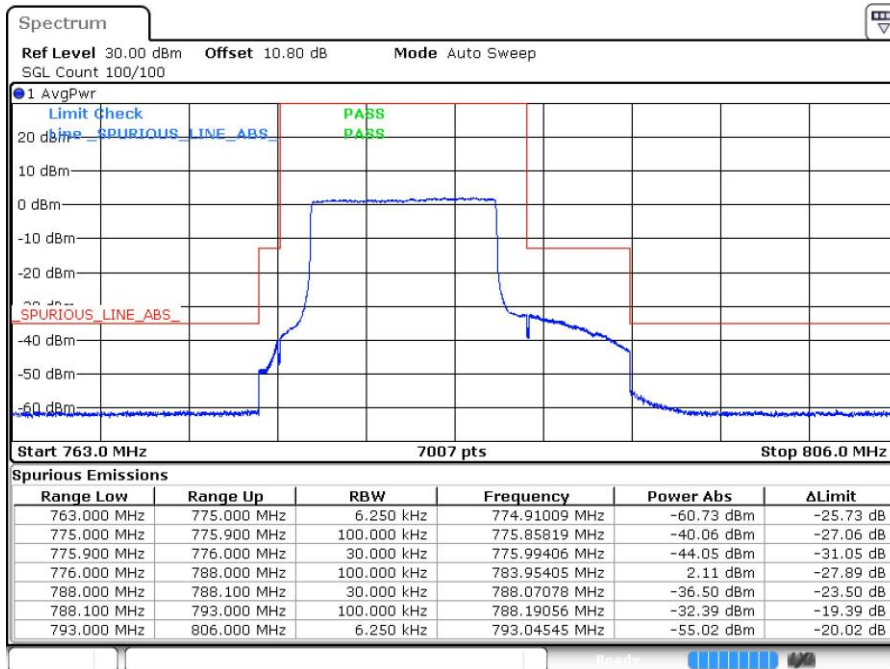
Date: 26 JUN 2019 07:33:01

Highest Band Edge / 1 RB



Date: 26 JUN 2019 07:38:03

Band Edge / Full RB

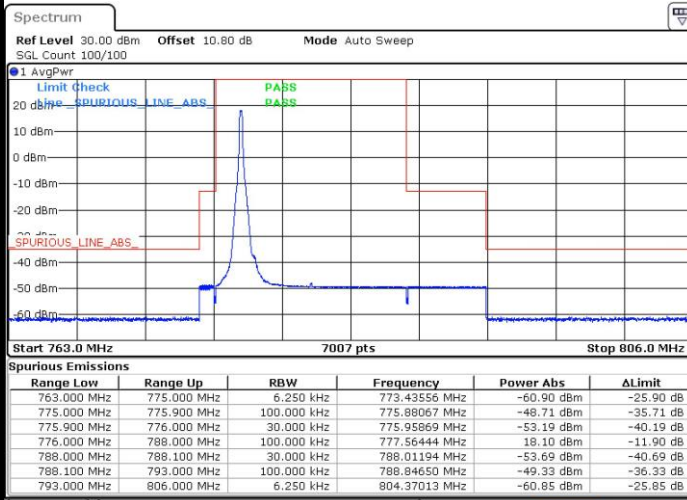


Date: 26 JUN 2019 07:31:20



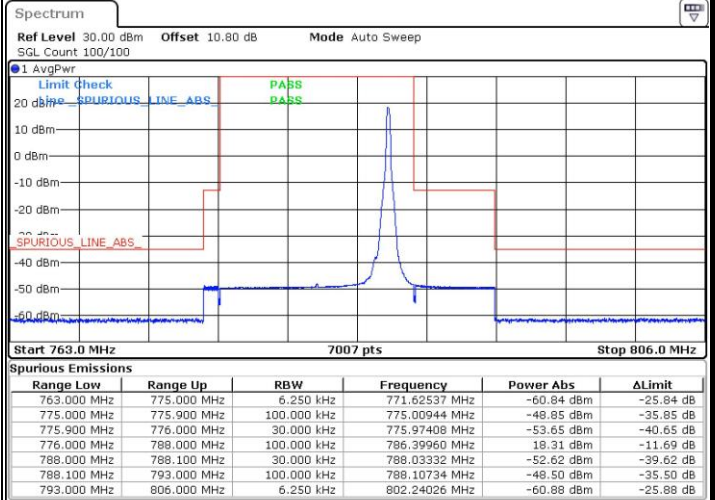
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



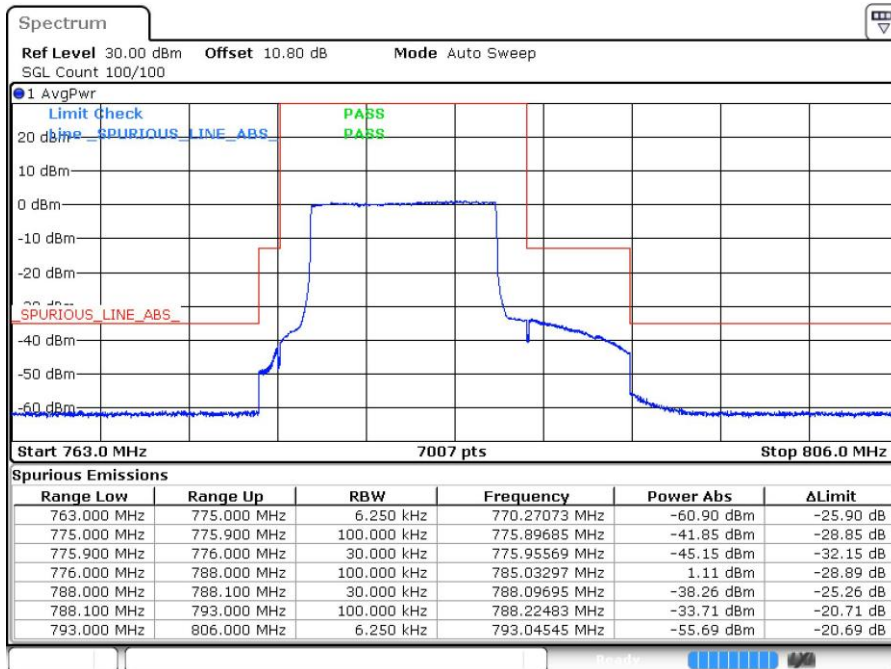
Date: 26 JUN 2019 07:43:19

Highest Band Edge / 1 RB



Date: 26 JUN 2019 07:44:59

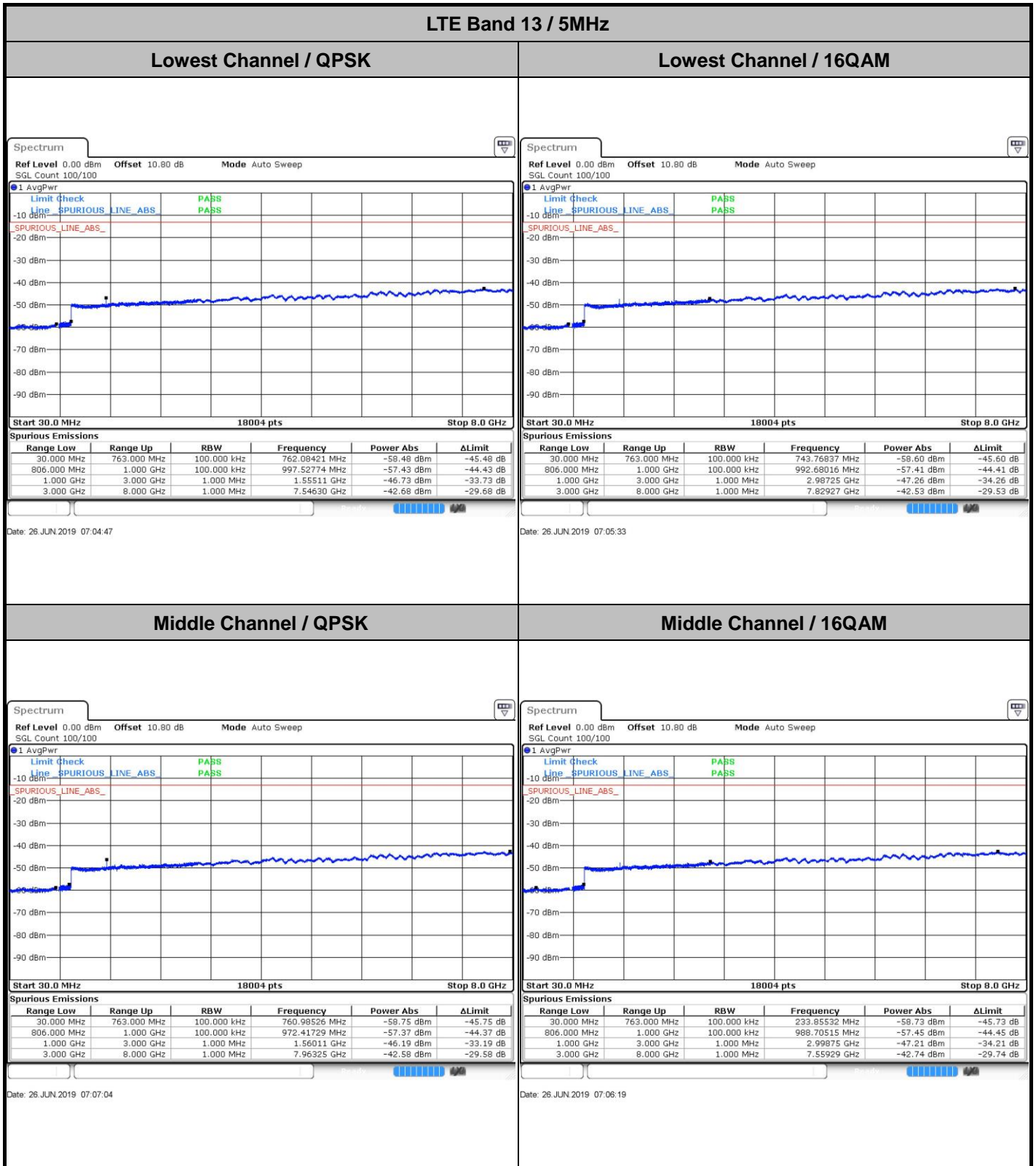
Band Edge / Full RB



Date: 26 JUN 2019 07:41:38



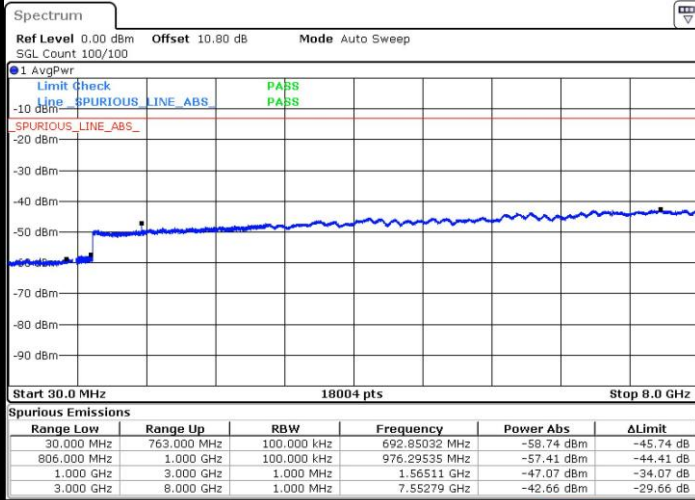
Conducted Spurious Emission





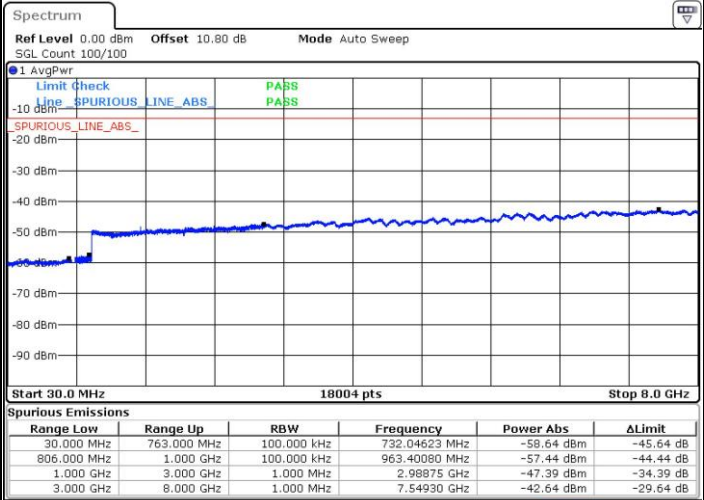
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 26 JUN 2019 07:16:12

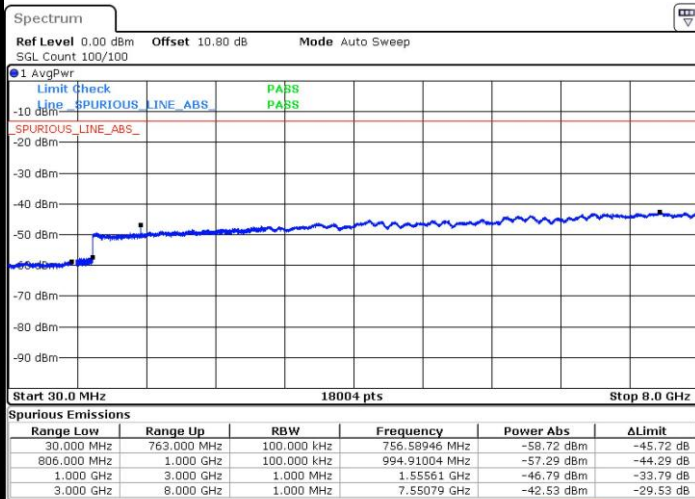
Highest Channel / 16QAM



Date: 26 JUN 2019 07:16:58

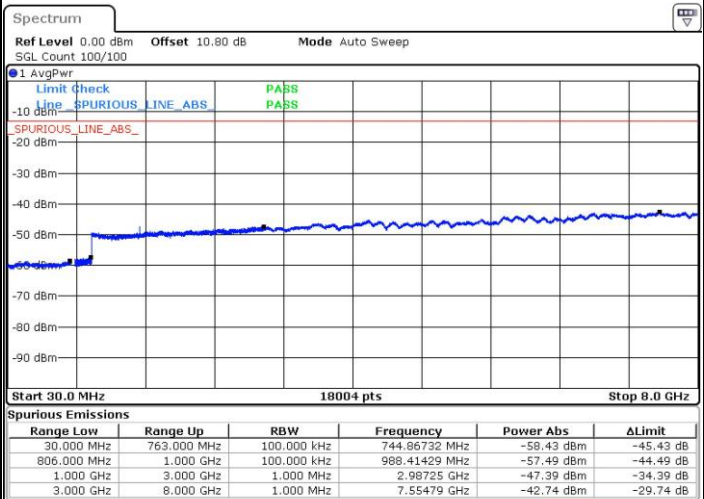
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 26 JUN 2019 07:39:35

Middle Channel / 16QAM



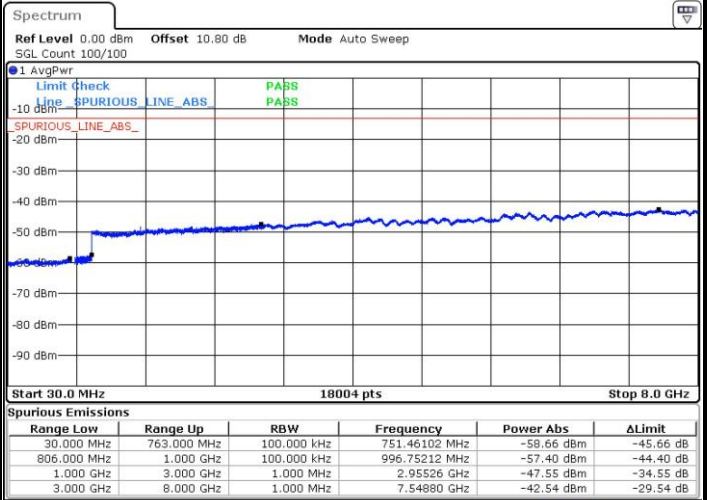
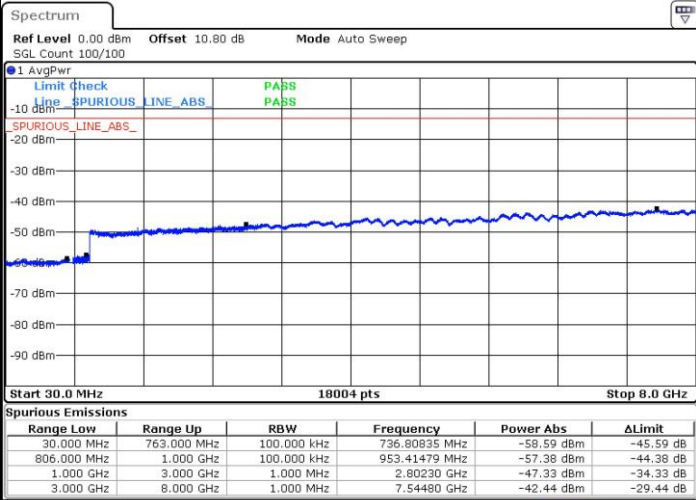
Date: 26 JUN 2019 07:38:49



LTE Band 13 / 5MHz

Lowest Channel / 64QAM

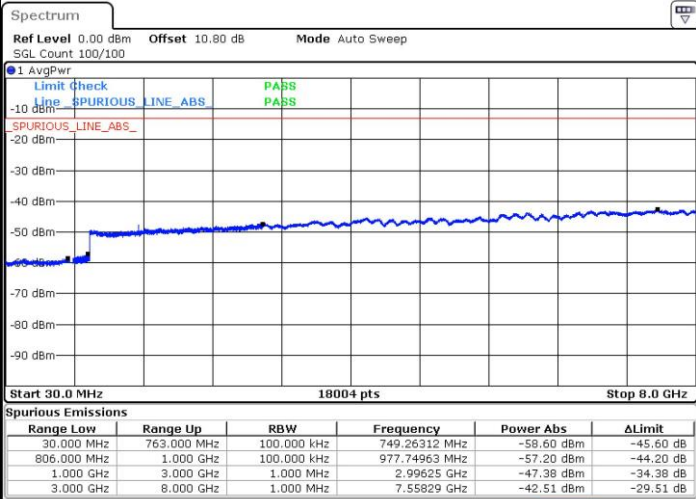
Middle Channel / 64QAM



Date: 26 JUN 2019 07:21:31

Date: 26 JUN 2019 07:22:16

Highest Channel / 64QAM

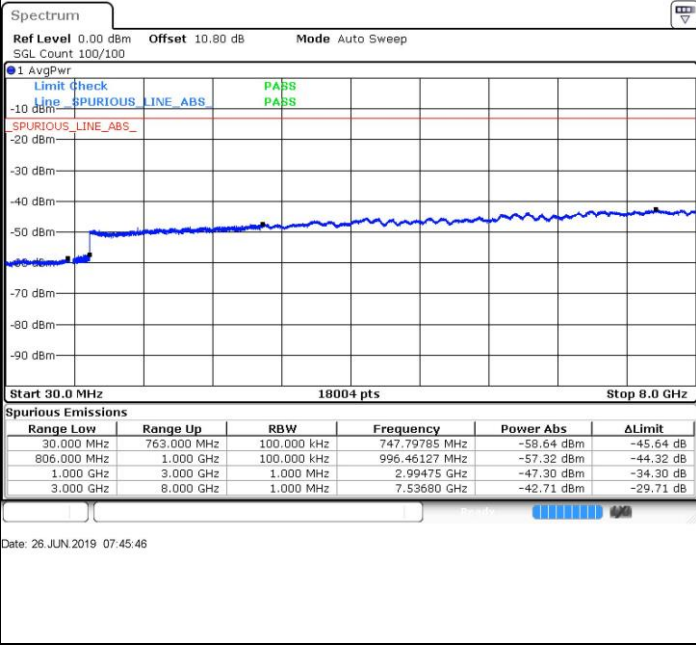


Date: 26 JUN 2019 07:27:12



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	0.0109	PASS
40	Normal Voltage	0.0098	
30	Normal Voltage	0.0086	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0046	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0086	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 V.
2. Note: 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	4.93	3.94	5.83	PASS
Middle CH	3.51	4.96	4.26	5.91	
Highest CH	3.45	5.04	4.09	5.88	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.72	6.20	-	-	PASS
Middle CH	5.22	6.41	-	-	
Highest CH	5.51	6.41	-	-	



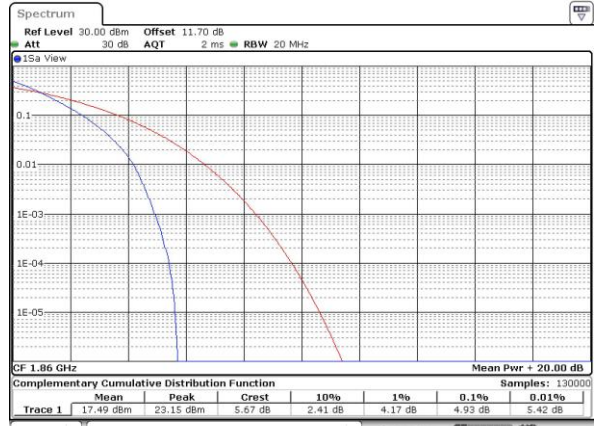
LTE Band 25 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 26 JUN 2019 11:48:29

Lowest Channel / Full RB



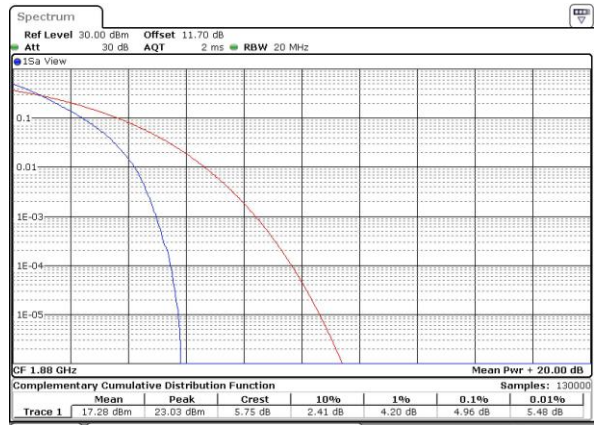
Date: 26 JUN 2019 11:48:43

Middle Channel / 1RB



Date: 26 JUN 2019 11:49:23

Middle Channel / Full RB



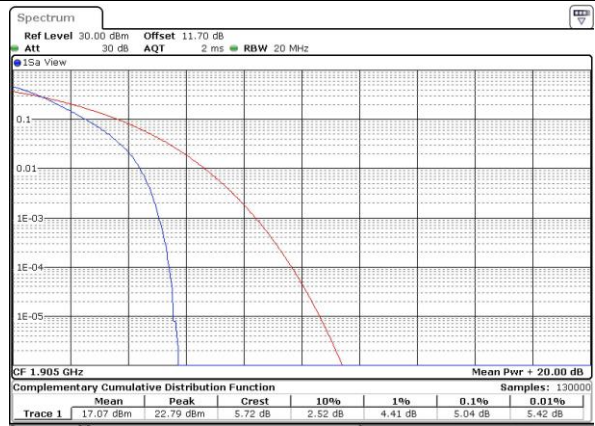
Date: 26 JUN 2019 11:49:35

Highest Channel / 1RB



Date: 26 JUN 2019 11:51:35

Highest Channel / Full RB

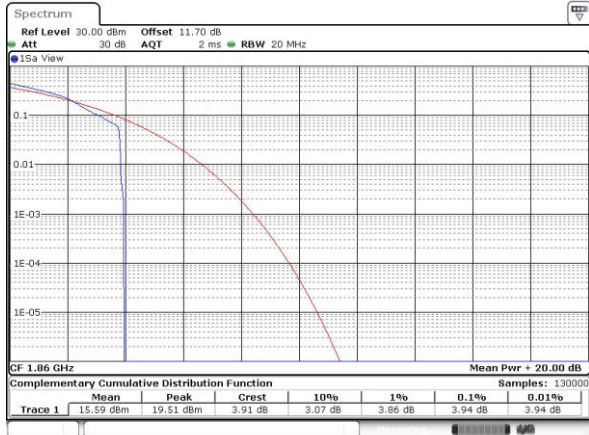


Date: 26 JUN 2019 11:53:16



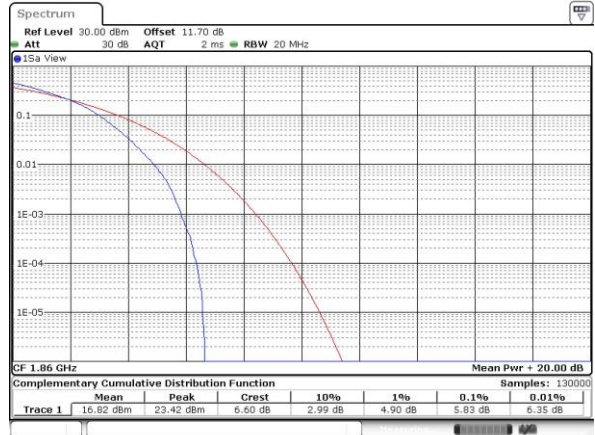
LTE Band 25 / 20MHz / 16QAM

Lowest Channel / 1RB



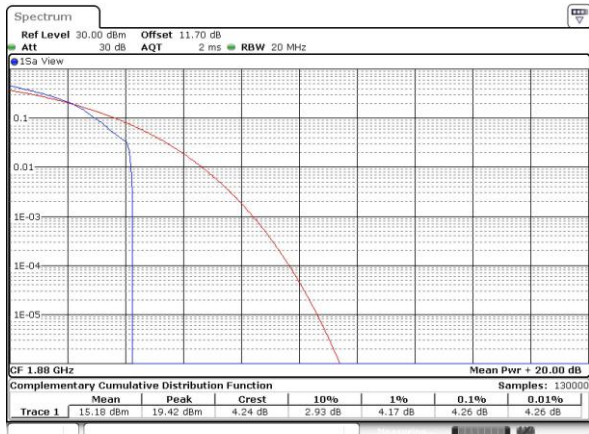
Date: 26 JUN 2019 11:47:54

Lowest Channel / Full RB



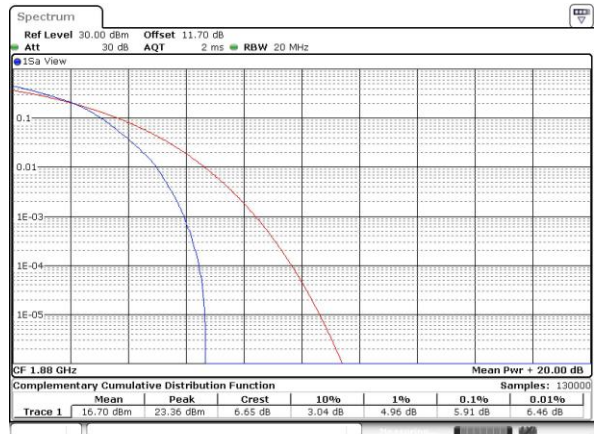
Date: 26 JUN 2019 11:48:08

Middle Channel / 1RB



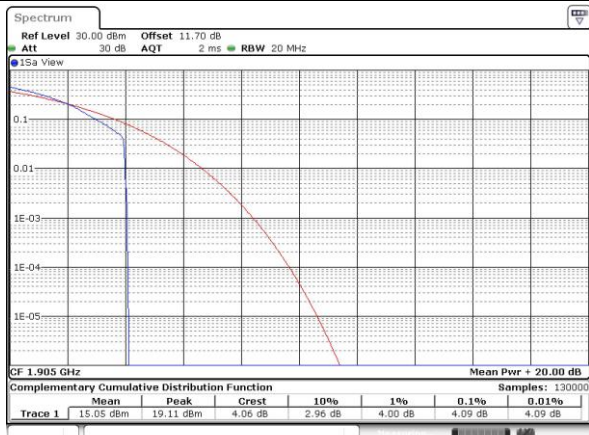
Date: 26 JUN 2019 11:48:55

Middle Channel / Full RB



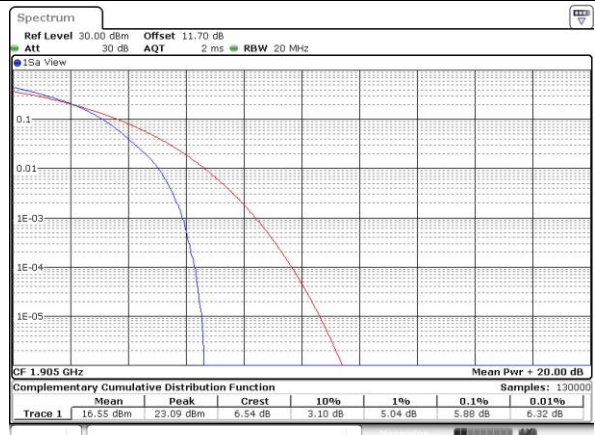
Date: 26 JUN 2019 11:49:11

Highest Channel / 1RB



Date: 26 JUN 2019 11:49:47

Highest Channel / Full RB

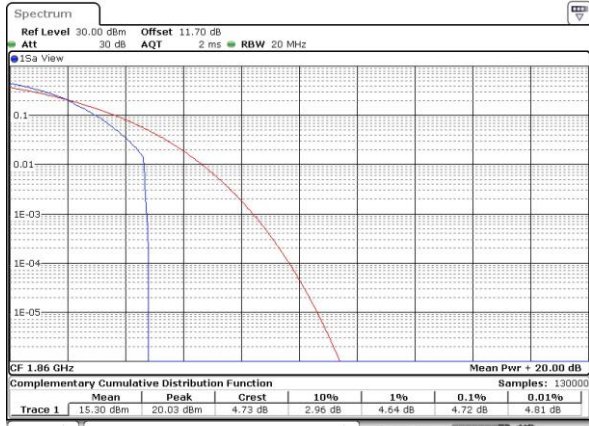


Date: 26 JUN 2019 11:49:59



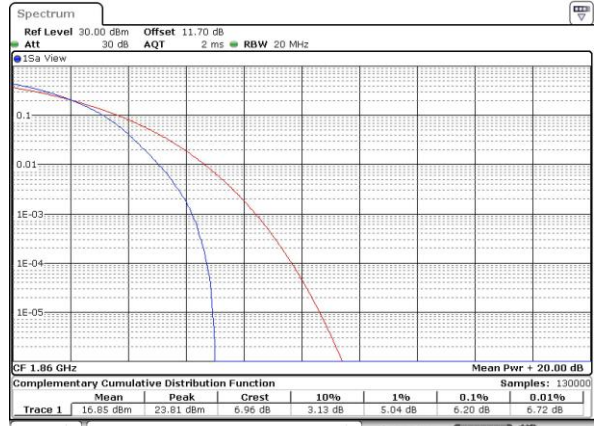
LTE Band 25 / 20MHz / 64QAM

Lowest Channel / 1RB



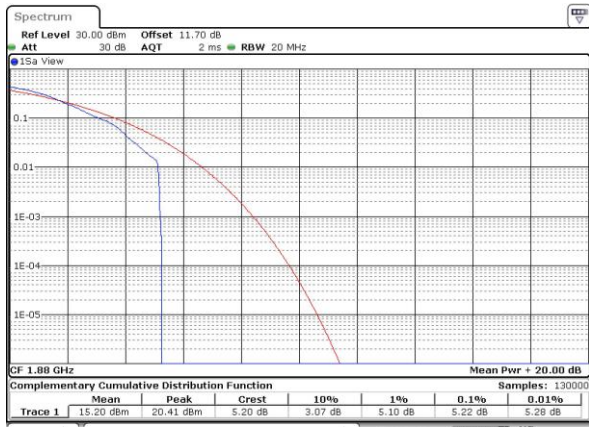
Date: 26 JUN 2019 11:45:04

Lowest Channel / Full RB



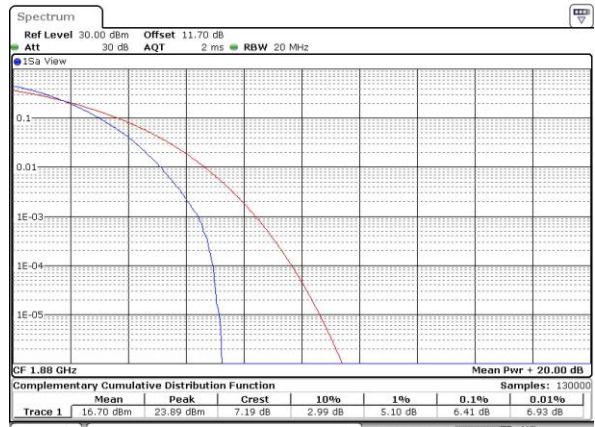
Date: 26 JUN 2019 11:45:21

Middle Channel / 1RB



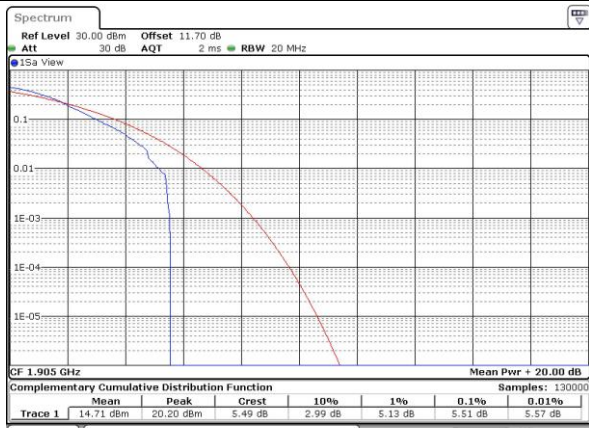
Date: 26 JUN 2019 11:45:33

Middle Channel / Full RB



Date: 26 JUN 2019 11:46:04

Highest Channel / 1RB



Date: 26 JUN 2019 11:46:22

Highest Channel / Full RB



Date: 26 JUN 2019 11:46:34



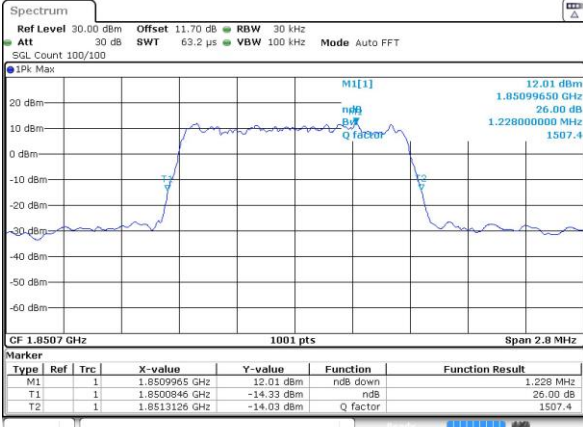
26dB Bandwidth

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	3.06	3.05	4.84	4.82	9.77	9.77	14.36	14.18	19.10	19.14
Middle CH	1.24	1.24	3.04	3.05	4.88	4.94	9.79	9.83	14.39	14.36	18.78	18.86
Highest CH	1.23	1.22	3.05	3.02	4.93	4.87	9.73	9.81	14.57	14.60	18.78	18.94
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	-	2.99	-	4.93	-	9.97	-	14.51	-	18.82	-
Middle CH	1.22	-	2.96	-	4.86	-	9.75	-	14.54	-	18.94	-
Highest CH	1.21	-	3.05	-	4.91	-	9.69	-	14.39	-	18.90	-



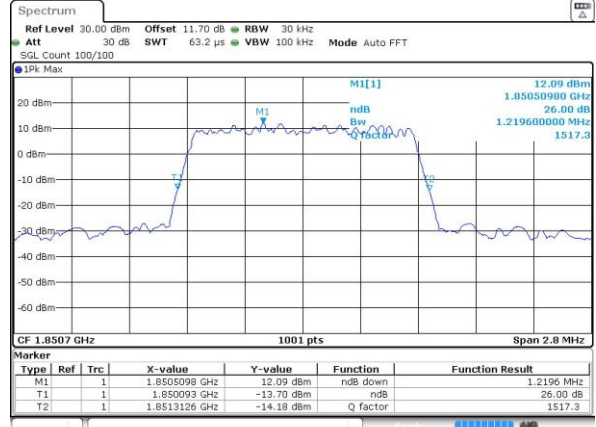
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



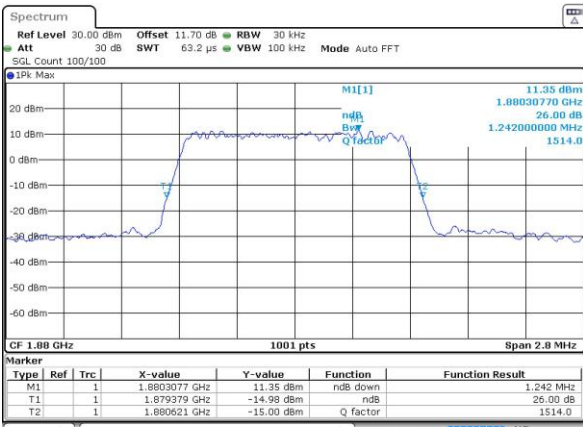
Date: 29 JUN 2019 07:01:02

Lowest Channel / 1.4MHz / 16QAM



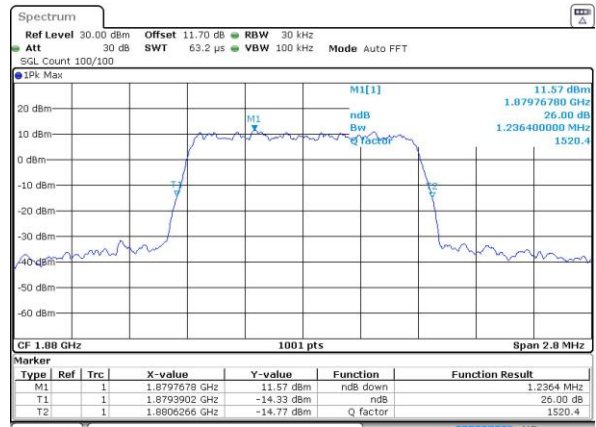
Date: 29 JUN 2019 07:01:14

Middle Channel / 1.4MHz / QPSK



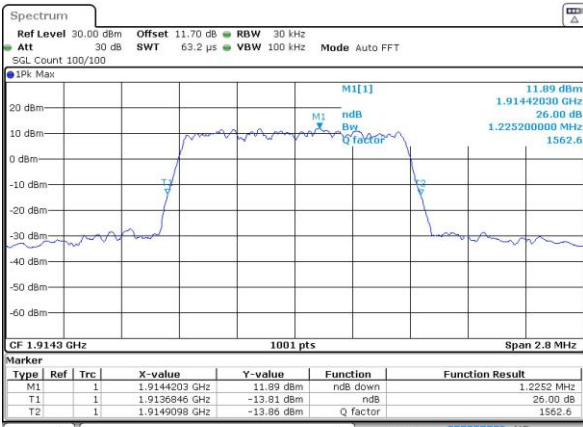
Date: 29 JUN 2019 07:01:51

Middle Channel / 1.4MHz / 16QAM



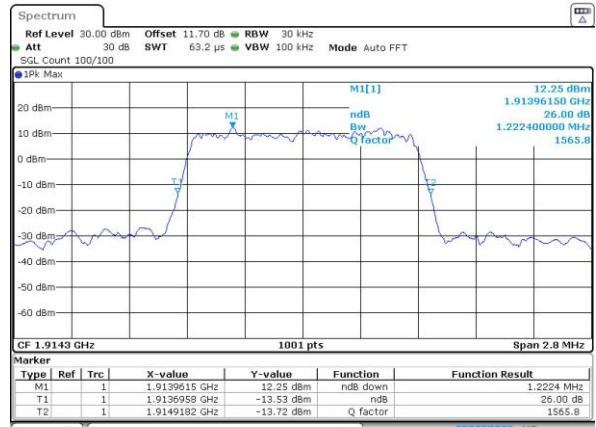
Date: 29 JUN 2019 07:02:03

Highest Channel / 1.4MHz / QPSK



Date: 29 JUN 2019 07:02:52

Highest Channel / 1.4MHz / 16QAM

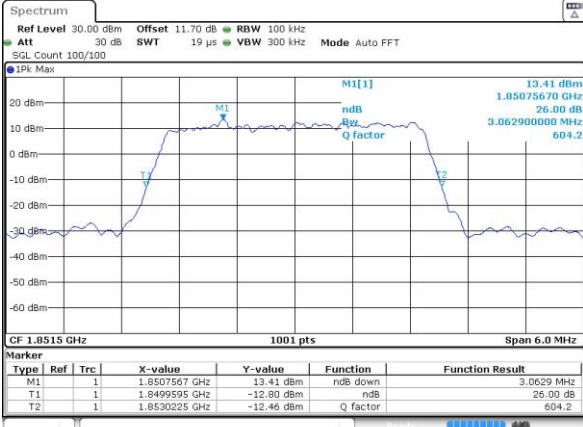


Date: 29 JUN 2019 07:02:40



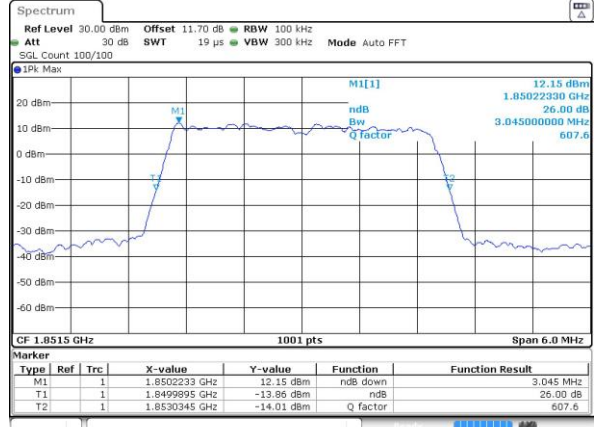
LTE Band 25

Lowest Channel / 3MHz / QPSK



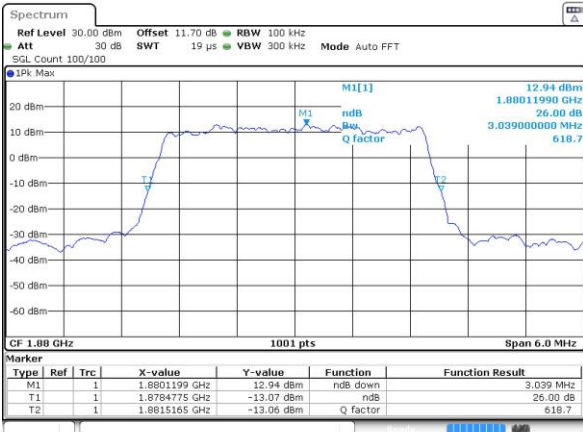
Date: 29 JUN 2019 06:33:51

Lowest Channel / 3MHz / 16QAM



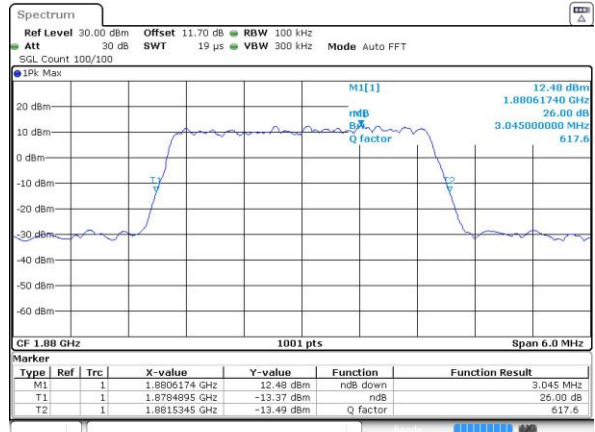
Date: 29 JUN 2019 06:34:03

Middle Channel / 3MHz / QPSK



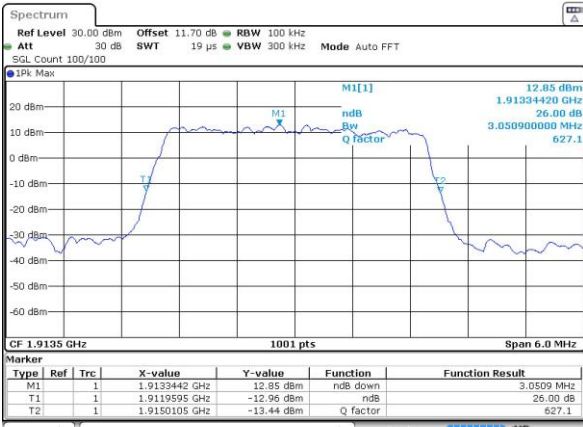
Date: 29 JUN 2019 06:34:40

Middle Channel / 3MHz / 16QAM



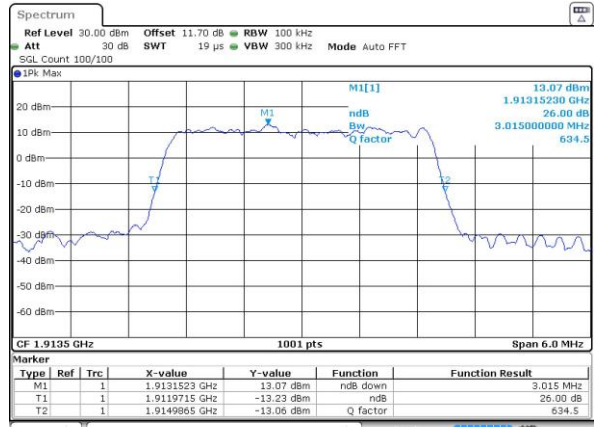
Date: 29 JUN 2019 06:34:52

Highest Channel / 3MHz / QPSK



Date: 29 JUN 2019 06:35:41

Highest Channel / 3MHz / 16QAM

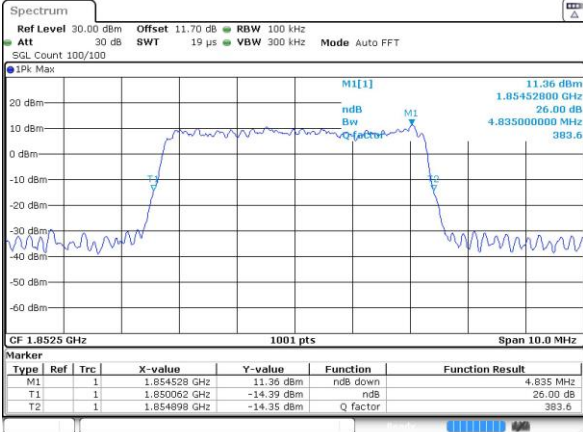


Date: 29 JUN 2019 06:35:29



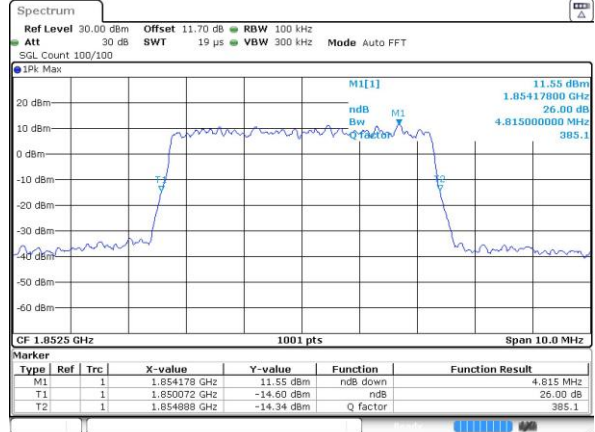
LTE Band 25

Lowest Channel / 5MHz / QPSK



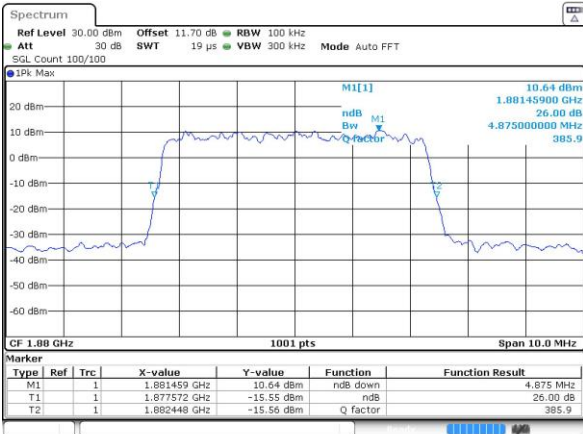
Date: 29 JUN 2019 06:36:19

Lowest Channel / 5MHz / 16QAM



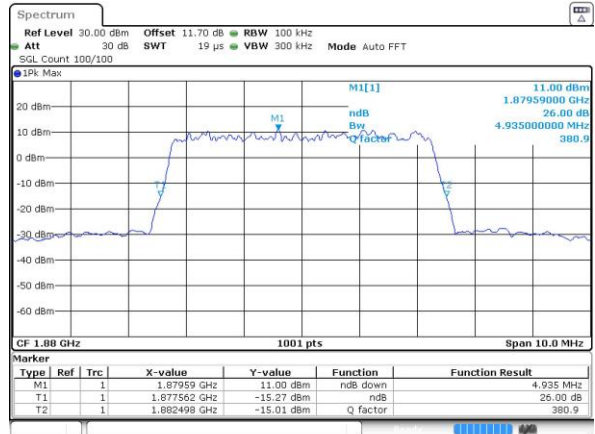
Date: 29 JUN 2019 06:36:31

Middle Channel / 5MHz / QPSK



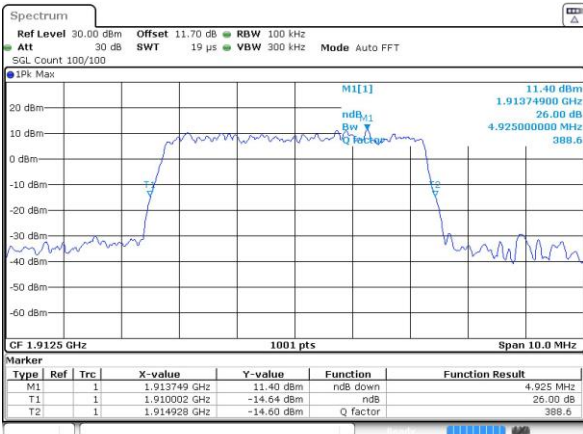
Date: 29 JUN 2019 06:37:08

Middle Channel / 5MHz / 16QAM



Date: 29 JUN 2019 06:37:20

Highest Channel / 5MHz / QPSK



Date: 29 JUN 2019 06:38:09

Highest Channel / 5MHz / 16QAM

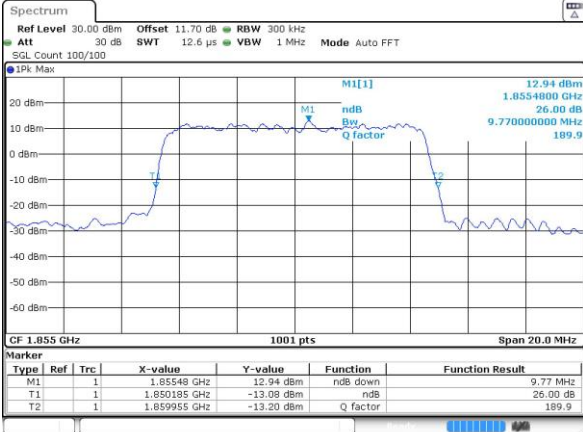


Date: 29 JUN 2019 06:37:57



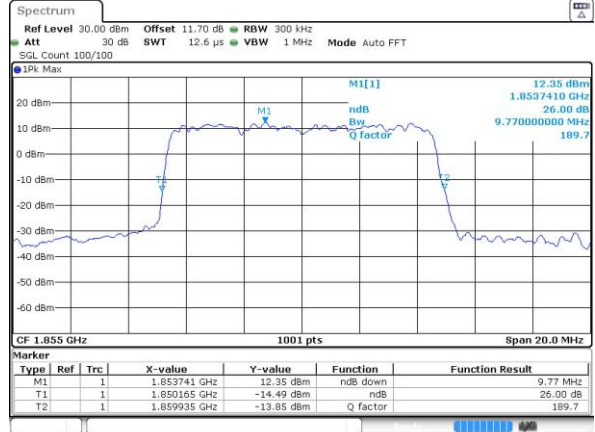
LTE Band 25

Lowest Channel / 10MHz / QPSK



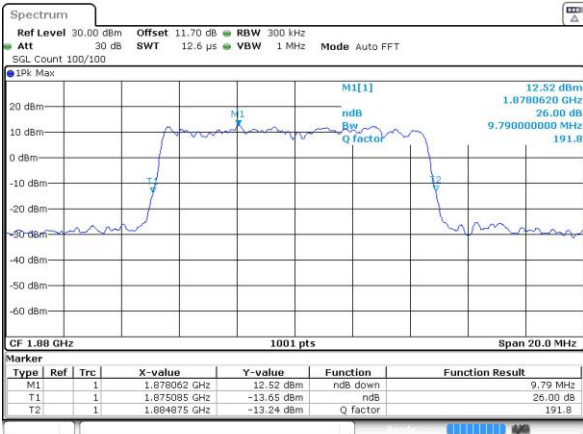
Date: 29 JUN 2019 06:40:00

Lowest Channel / 10MHz / 16QAM



Date: 29 JUN 2019 06:40:12

Middle Channel / 10MHz / QPSK



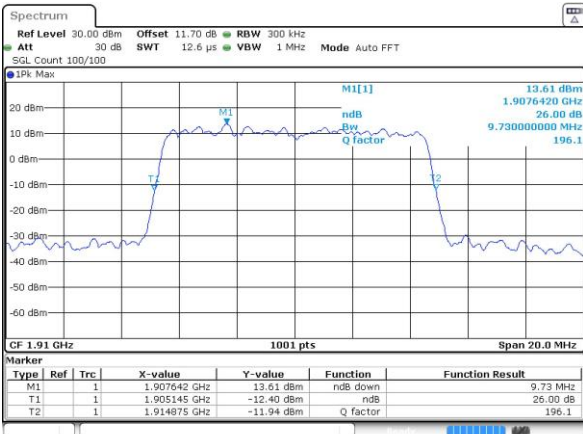
Date: 29 JUN 2019 06:40:49

Middle Channel / 10MHz / 16QAM



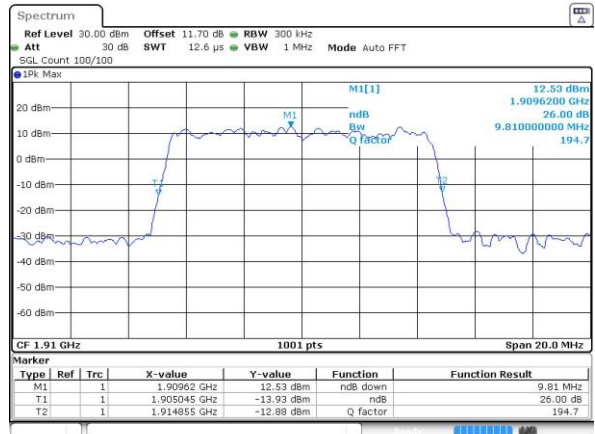
Date: 29 JUN 2019 06:41:01

Highest Channel / 10MHz / QPSK



Date: 29 JUN 2019 06:41:50

Highest Channel / 10MHz / 16QAM

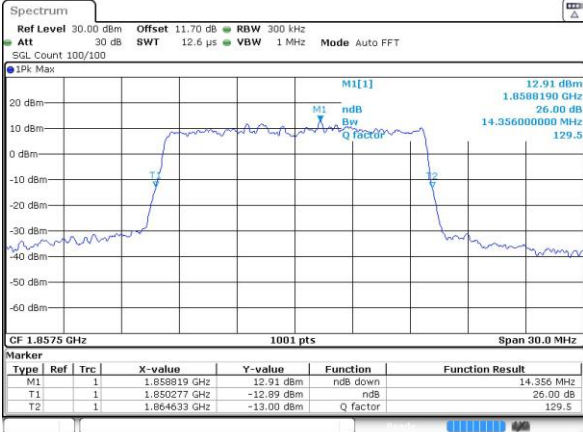


Date: 29 JUN 2019 06:41:38



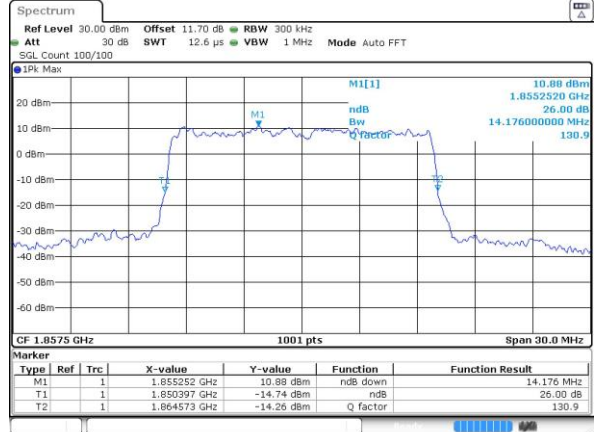
LTE Band 25

Lowest Channel / 15MHz / QPSK



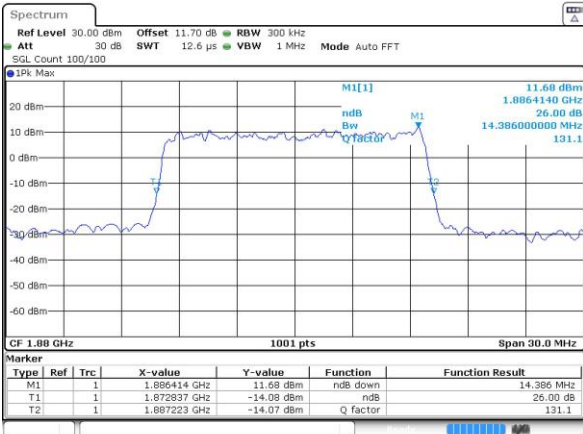
Date: 29 JUN 2019 06:52:01

Lowest Channel / 15MHz / 16QAM



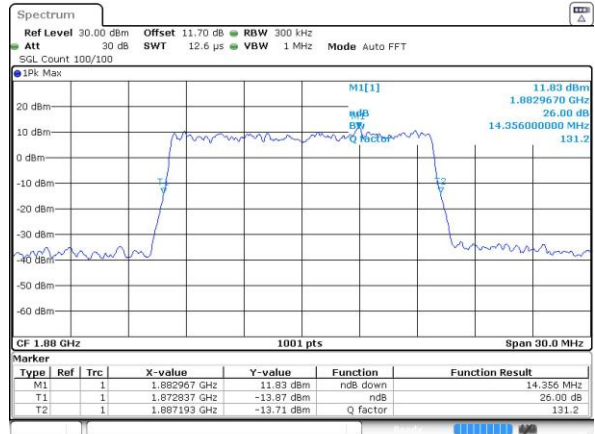
Date: 29 JUN 2019 06:52:14

Middle Channel / 15MHz / QPSK



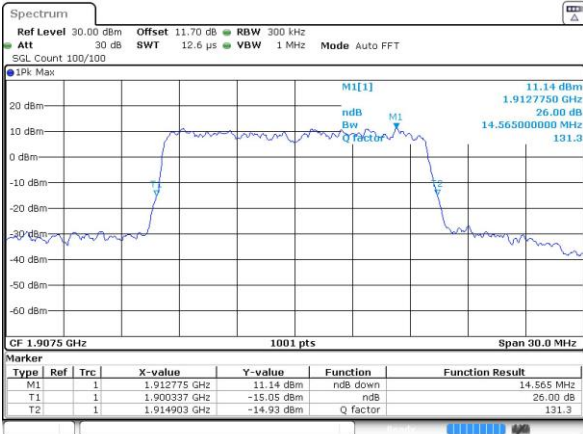
Date: 29 JUN 2019 06:52:51

Middle Channel / 15MHz / 16QAM



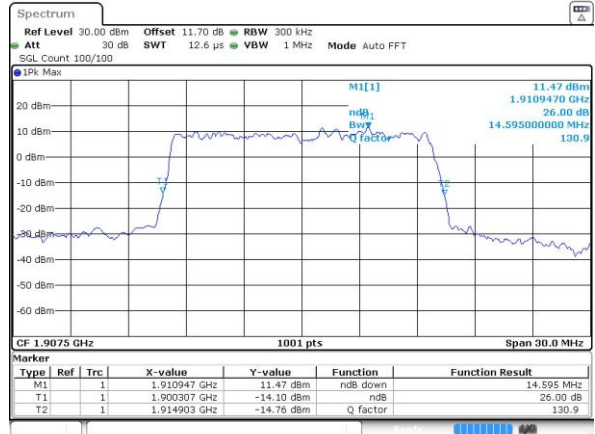
Date: 29 JUN 2019 06:53:03

Highest Channel / 15MHz / QPSK



Date: 29 JUN 2019 06:53:52

Highest Channel / 15MHz / 16QAM

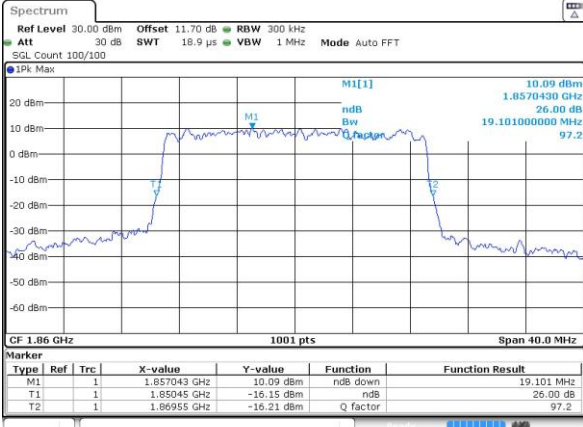


Date: 29 JUN 2019 06:53:40



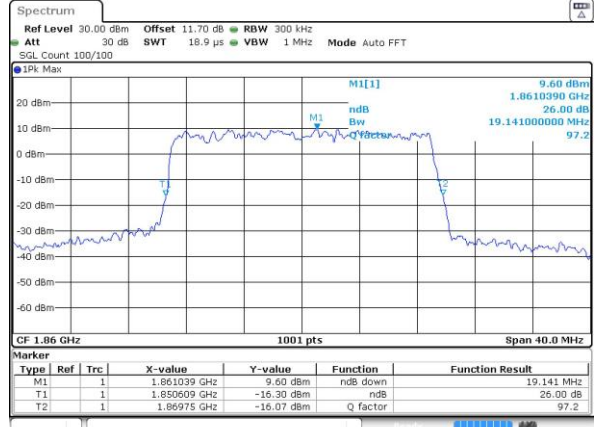
LTE Band 25

Lowest Channel / 20MHz / QPSK



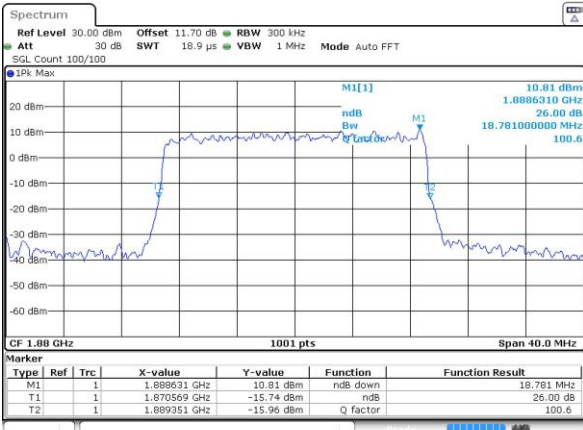
Date: 29 JUN 2019 06:55:44

Lowest Channel / 20MHz / 16QAM



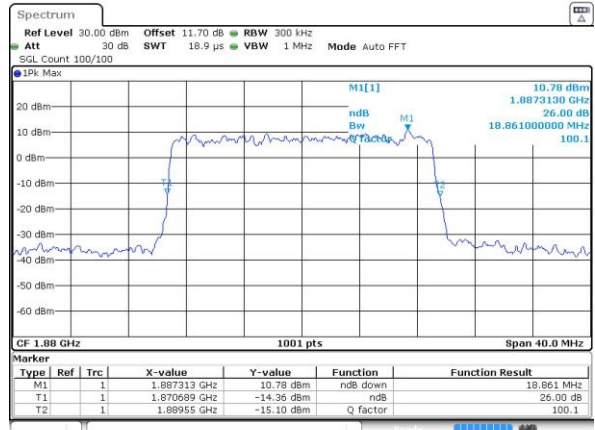
Date: 29 JUN 2019 06:55:56

Middle Channel / 20MHz / QPSK



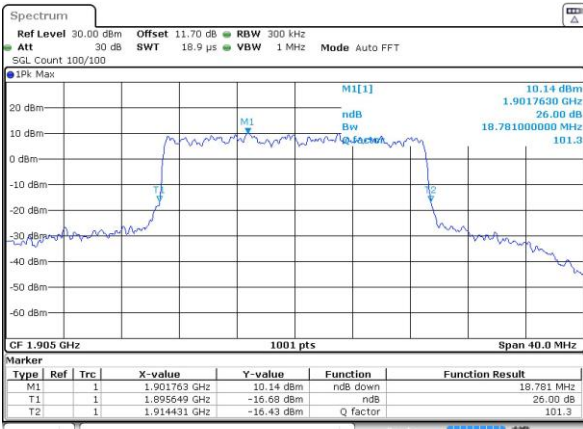
Date: 29 JUN 2019 06:56:33

Middle Channel / 20MHz / 16QAM



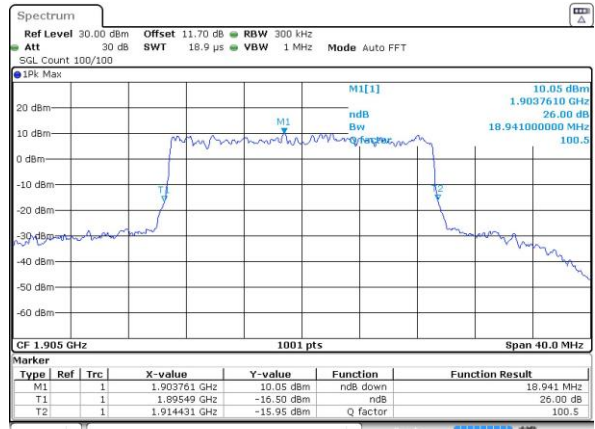
Date: 29 JUN 2019 06:56:45

Highest Channel / 20MHz / QPSK



Date: 29 JUN 2019 06:57:34

Highest Channel / 20MHz / 16QAM

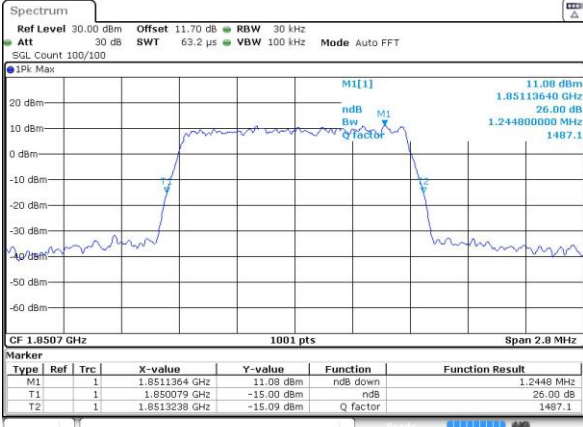


Date: 29 JUN 2019 06:57:22



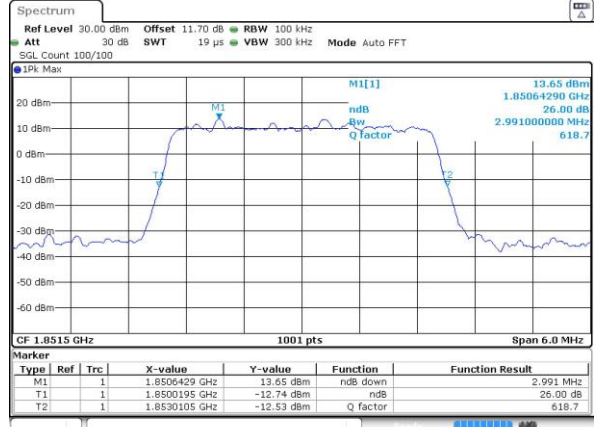
LTE Band 25

Lowest Channel / 1.4MHz / 64QAM



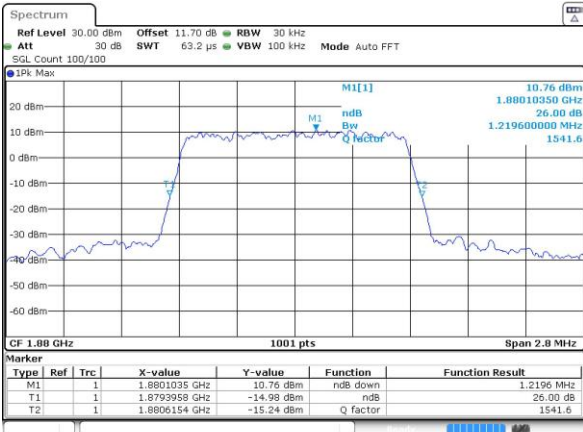
Date: 29 JUN 2019 07:03:17

Lowest Channel / 3MHz / 64QAM



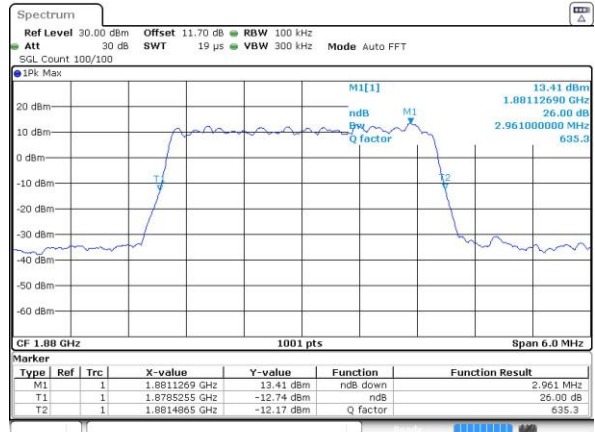
Date: 29 JUN 2019 06:32:25

Middle Channel / 1.4MHz / 64QAM



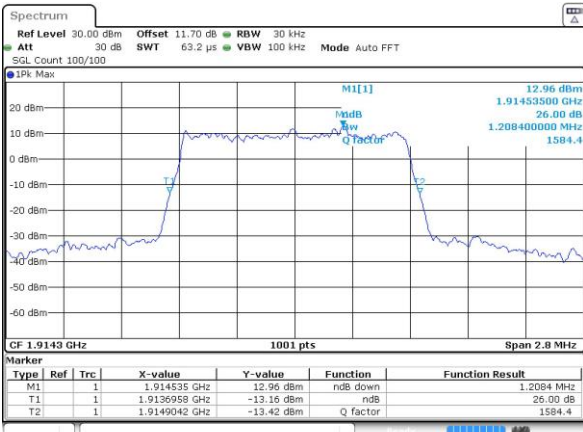
Date: 29 JUN 2019 07:03:41

Middle Channel / 3MHz / 64QAM



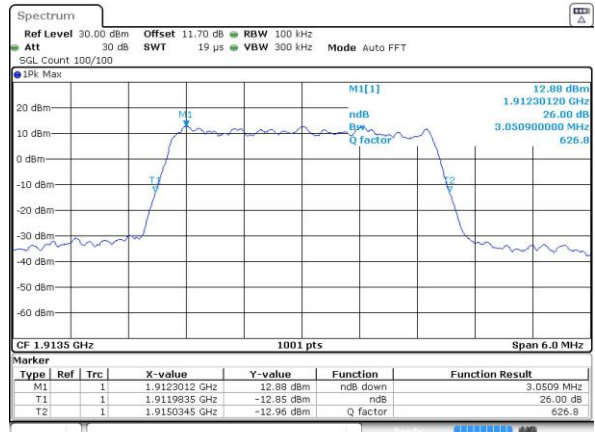
Date: 29 JUN 2019 06:32:50

Highest Channel / 1.4MHz / 64QAM



Date: 29 JUN 2019 07:04:06

Highest Channel / 3MHz / 64QAM

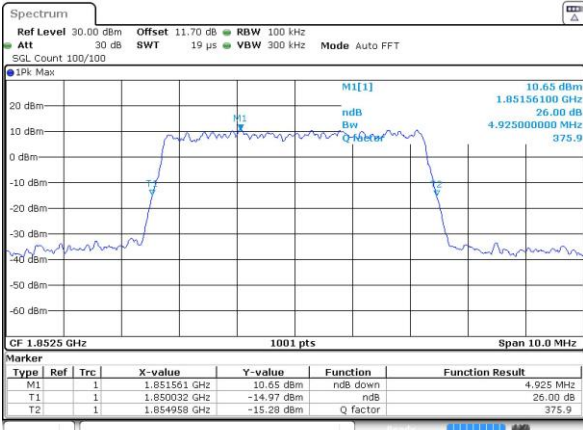


Date: 29 JUN 2019 06:33:14



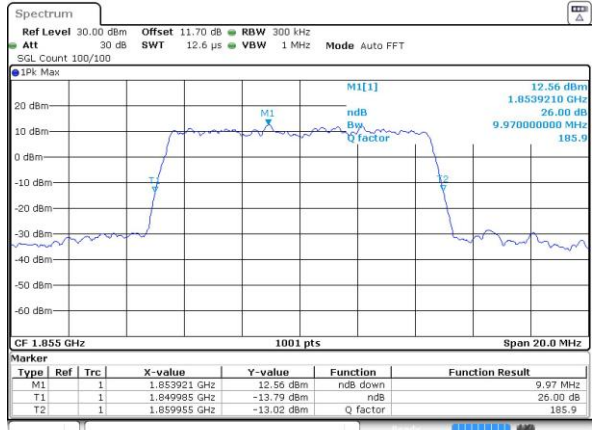
LTE Band 25

Lowest Channel / 5MHz / 64QAM



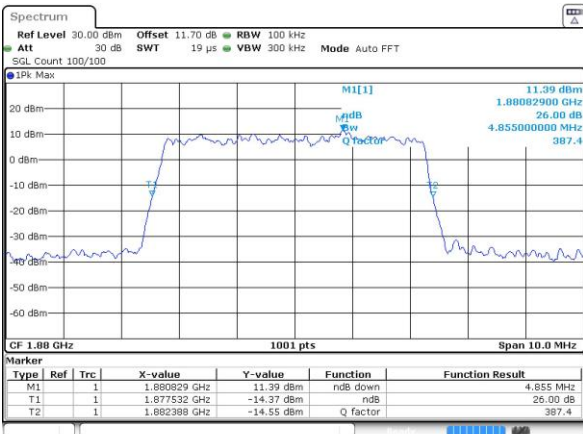
Date: 29 JUN 2019 06:38:34

Lowest Channel / 10MHz / 64QAM



Date: 29 JUN 2019 06:42:15

Middle Channel / 5MHz / 64QAM



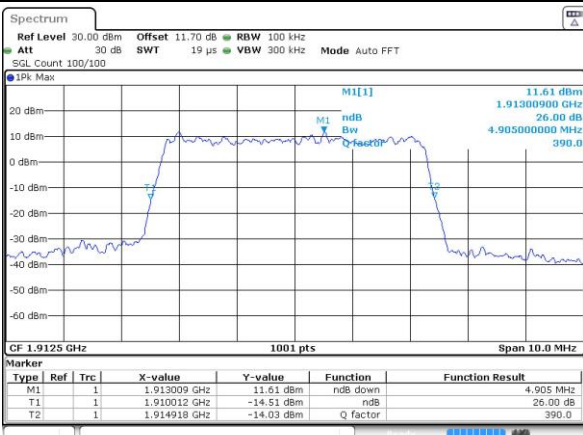
Date: 29 JUN 2019 06:38:58

Middle Channel / 10MHz / 64QAM



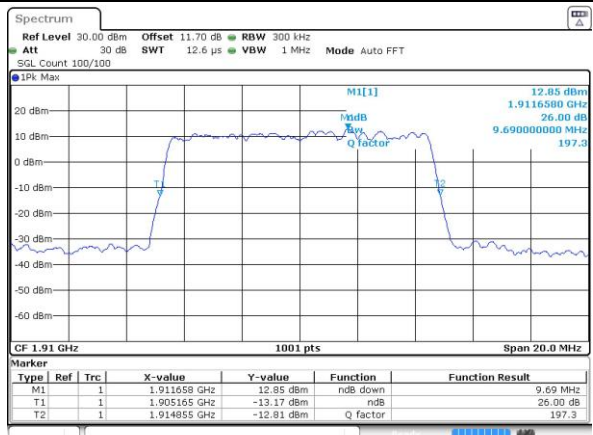
Date: 29 JUN 2019 06:42:39

Highest Channel / 5MHz / 64QAM



Date: 29 JUN 2019 06:39:22

Highest Channel / 10MHz / 64QAM



Date: 29 JUN 2019 06:43:03