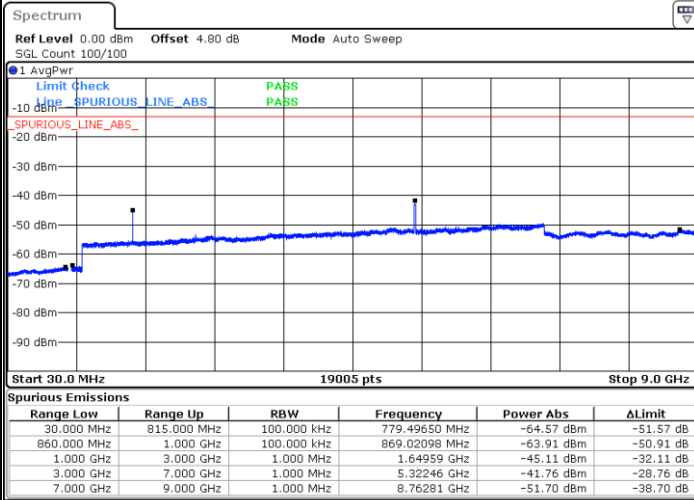




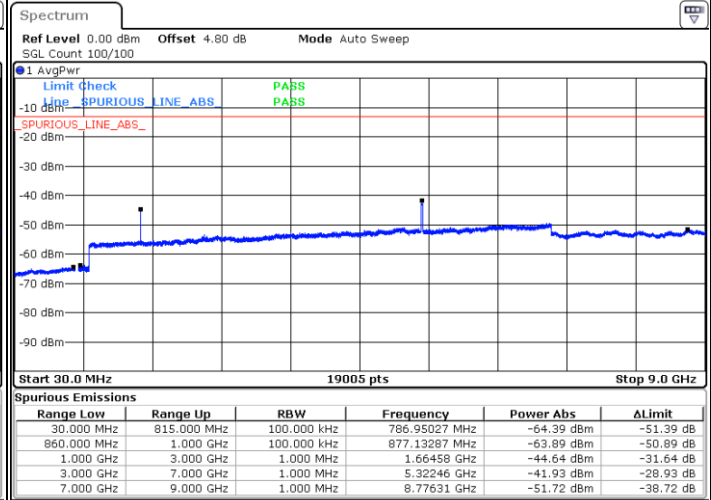
LTE Band 5 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

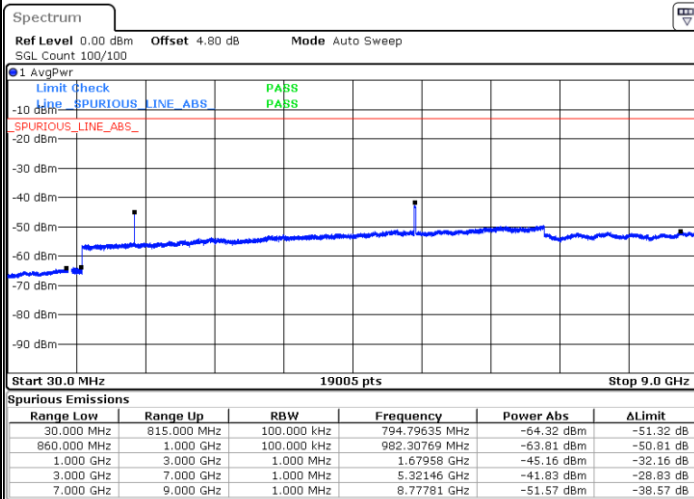


Date: 26 JUN 2020 16:32:36



Date: 26 JUN 2020 16:33:30

Highest Channel / 64QAM



Date: 26 JUN 2020 16:38:20



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	0.0032	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

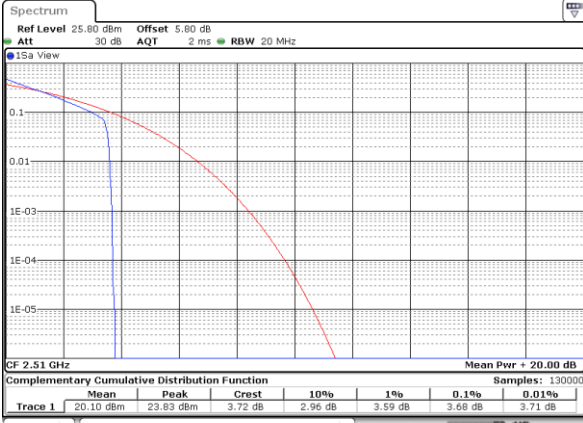
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.68	4.38	5.10	5.86	PASS
Middle CH	3.48	4.43	4.87	5.86	
Highest CH	3.62	4.49	4.78	5.88	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.25	5.80	-	-	PASS
Middle CH	4.75	5.80	-	-	
Highest CH	5.28	5.88	-	-	



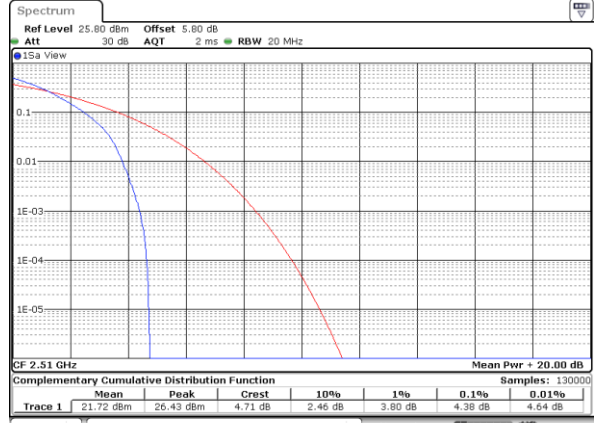
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



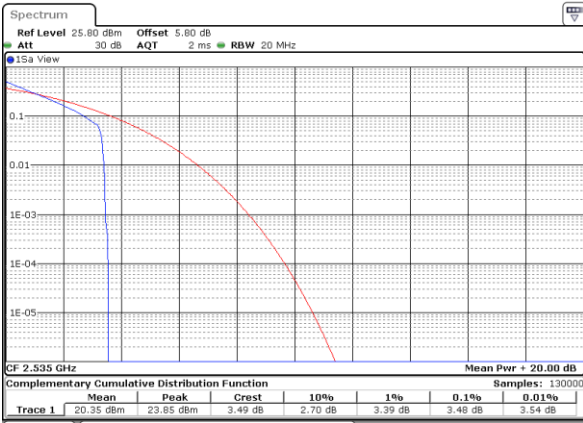
Date: 26 JUN 2020 19:19:15

Lowest Channel / Full RB



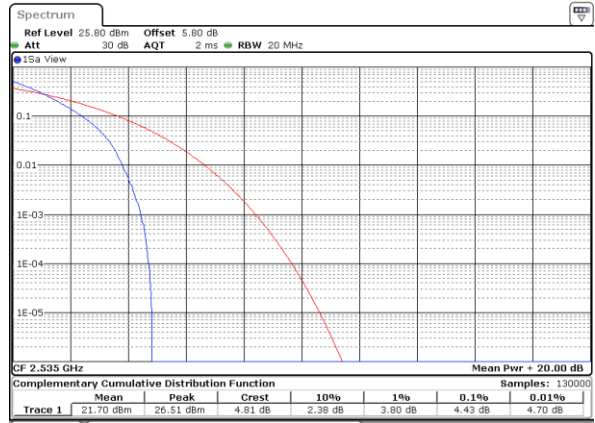
Date: 26 JUN 2020 19:19:34

Middle Channel / 1RB



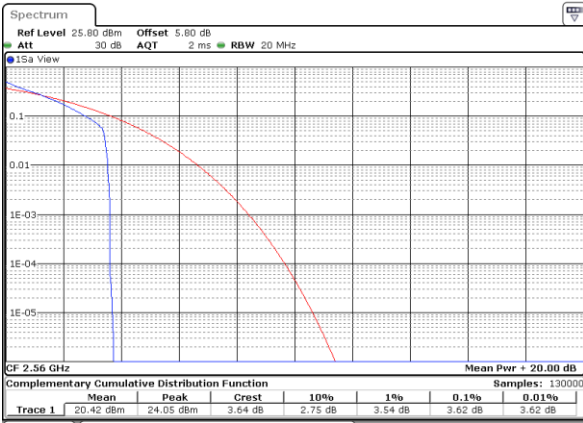
Date: 26 JUN 2020 19:20:11

Middle Channel / Full RB



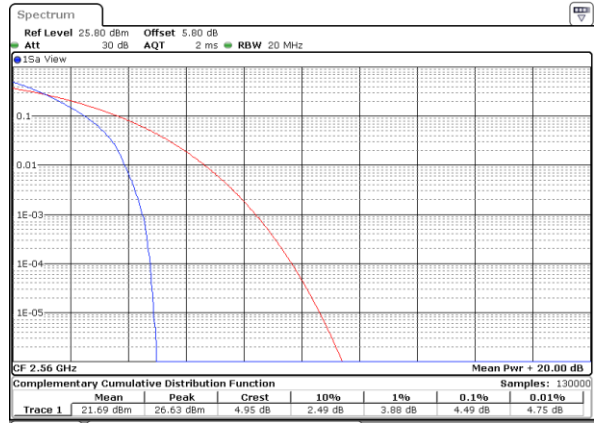
Date: 26 JUN 2020 19:20:01

Highest Channel / 1RB



Date: 26 JUN 2020 19:20:39

Highest Channel / Full RB



Date: 26 JUN 2020 19:20:48



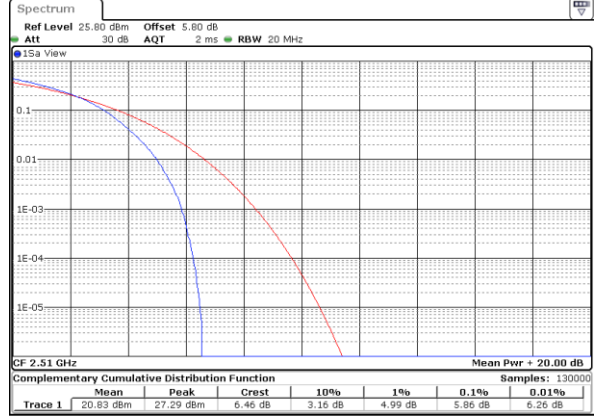
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



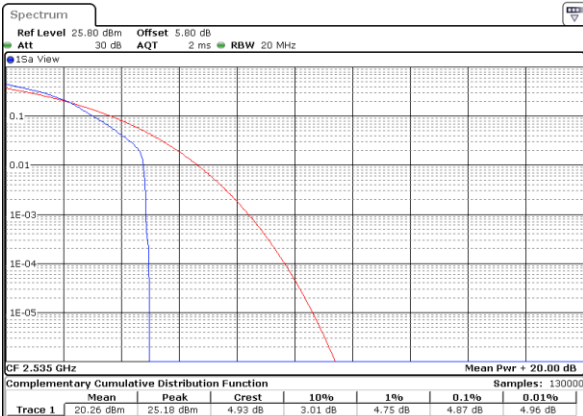
Date: 26 JUN 2020 19:19:06

Lowest Channel / Full RB



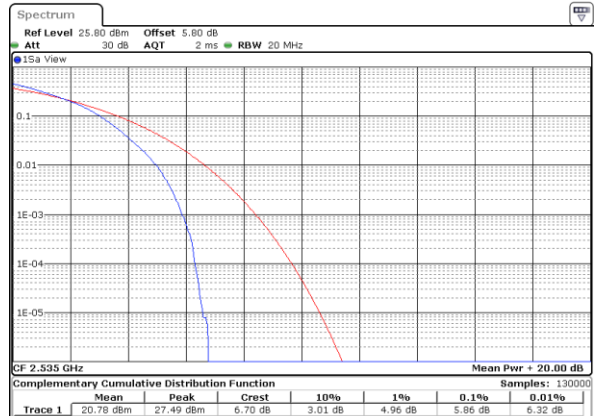
Date: 26 JUN 2020 19:19:43

Middle Channel / 1RB



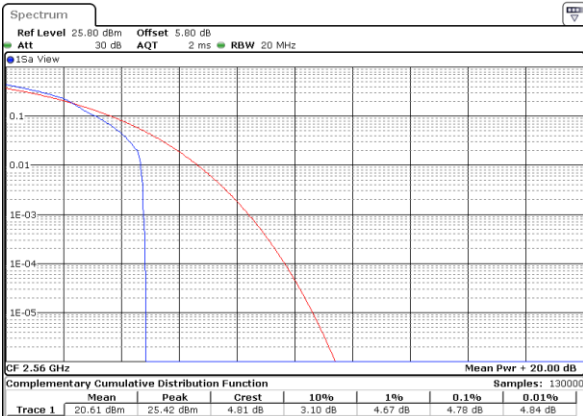
Date: 26 JUN 2020 19:20:20

Middle Channel / Full RB



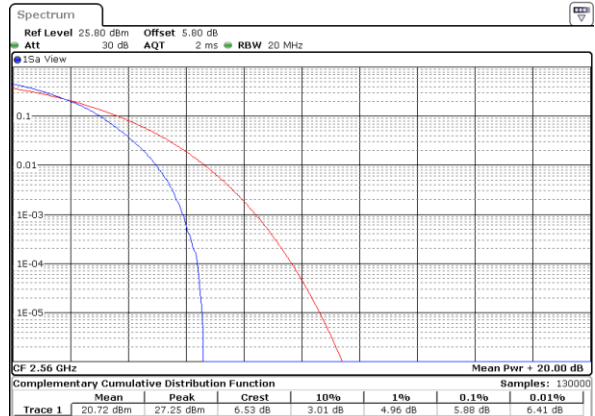
Date: 26 JUN 2020 19:19:52

Highest Channel / 1RB



Date: 26 JUN 2020 19:20:29

Highest Channel / Full RB

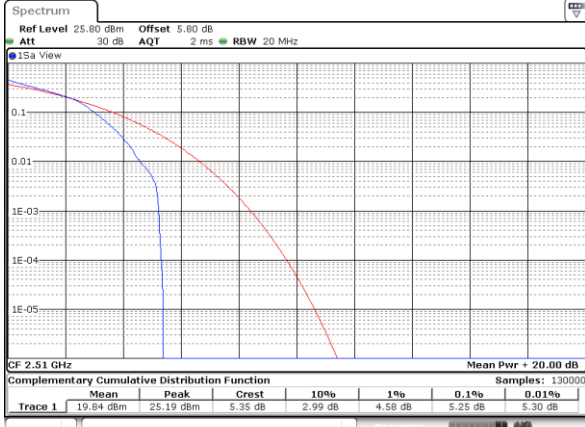


Date: 26 JUN 2020 19:20:57



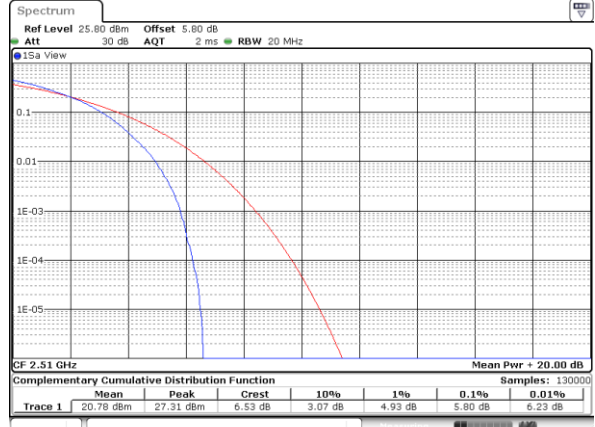
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



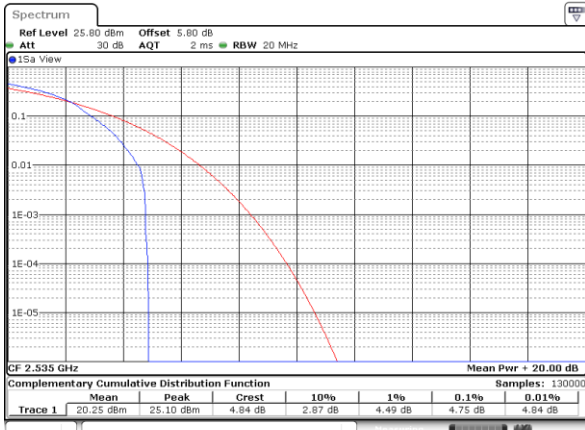
Date: 26 JUN 2020 19:18:09

Lowest Channel / Full RB



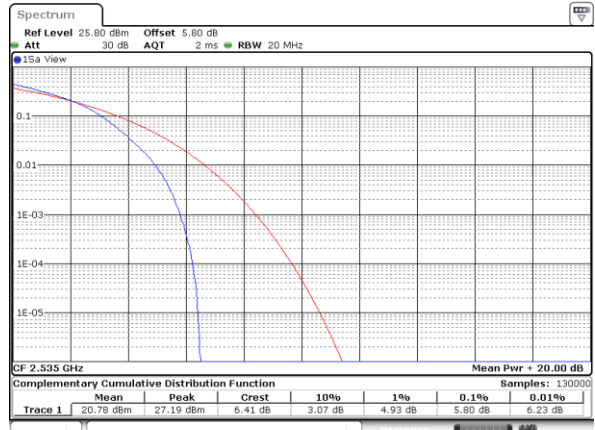
Date: 26 JUN 2020 19:18:19

Middle Channel / 1RB



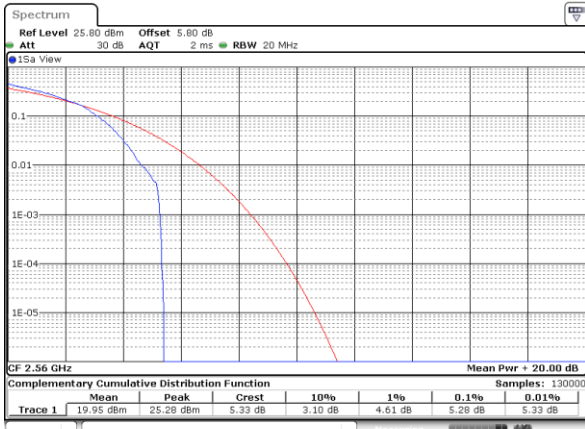
Date: 26 JUN 2020 19:18:38

Middle Channel / Full RB



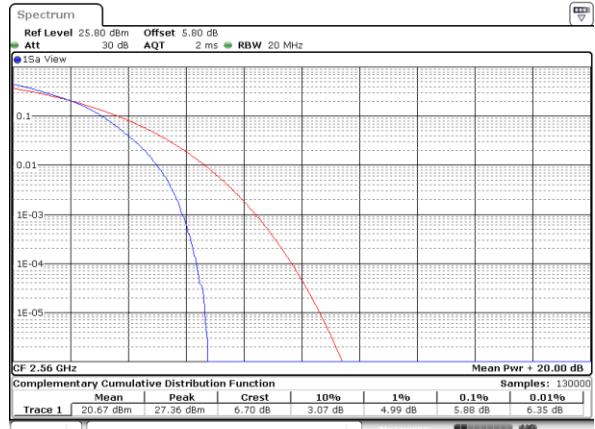
Date: 26 JUN 2020 19:18:28

Highest Channel / 1RB



Date: 26 JUN 2020 19:18:47

Highest Channel / Full RB



Date: 26 JUN 2020 19:18:57



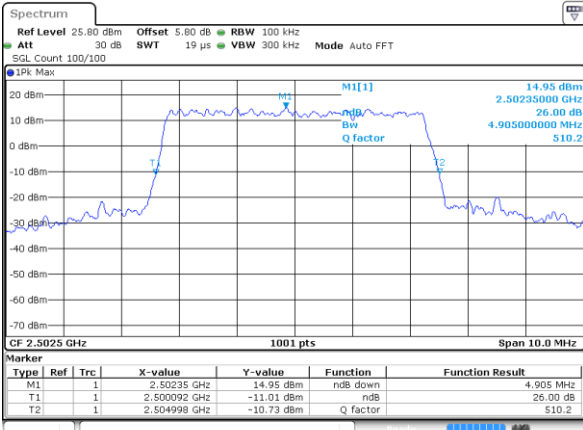
26dB Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.91	4.86	9.87	9.73	14.33	14.36	20.42	20.22
Middle CH	-	-	-	-	4.91	4.94	9.91	9.83	14.30	14.36	20.10	20.02
Highest CH	-	-	-	-	4.89	4.92	9.79	9.79	14.54	14.30	20.26	20.14
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.78	-	9.93	-	14.21	-	20.10	-
Middle CH	-	-	-	-	4.92	-	9.83	-	14.33	-	20.22	-
Highest CH	-	-	-	-	4.92	-	9.63	-	14.21	-	20.22	-



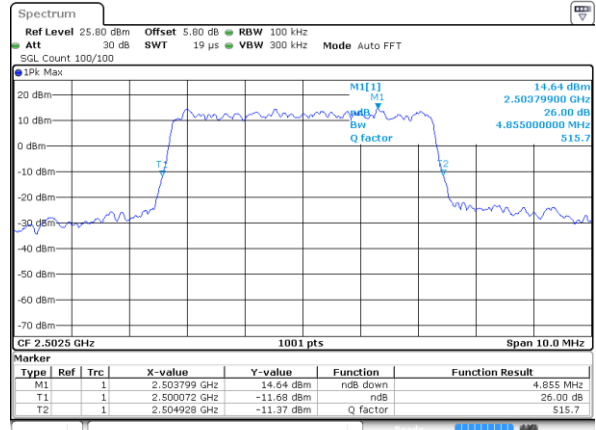
LTE Band 7

Lowest Channel / 5MHz / QPSK



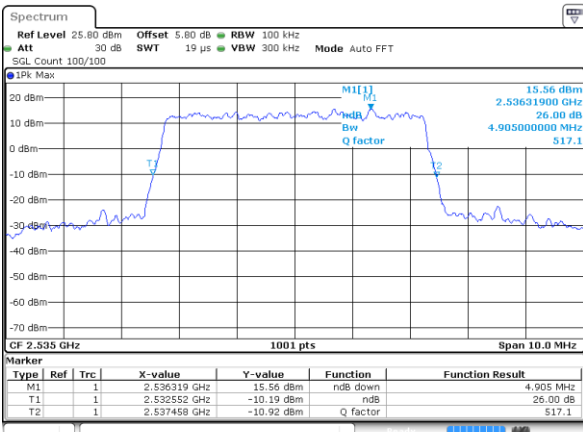
Date: 26 JUN 2020 17:17:25

Lowest Channel / 5MHz / 16QAM



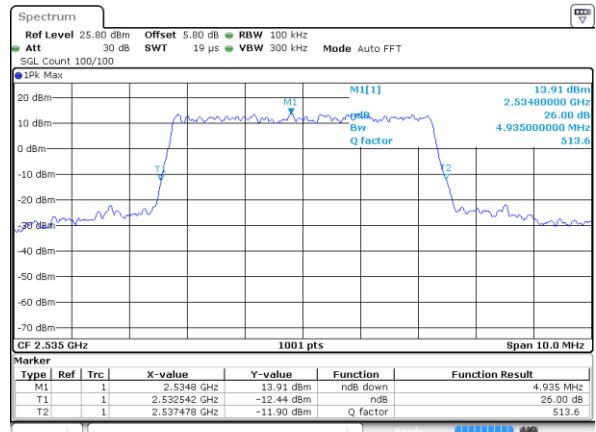
Date: 26 JUN 2020 17:17:45

Middle Channel / 5MHz / QPSK



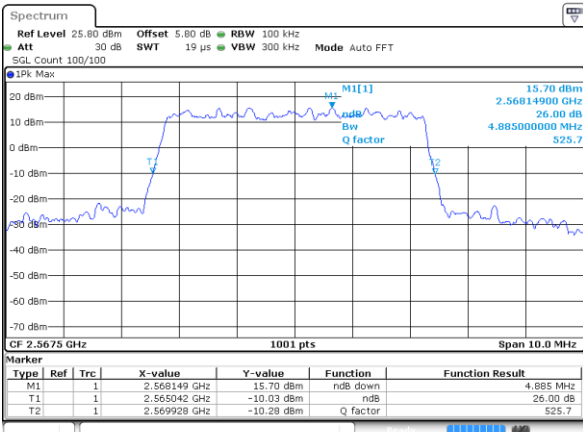
Date: 26 JUN 2020 17:18:26

Middle Channel / 5MHz / 16QAM



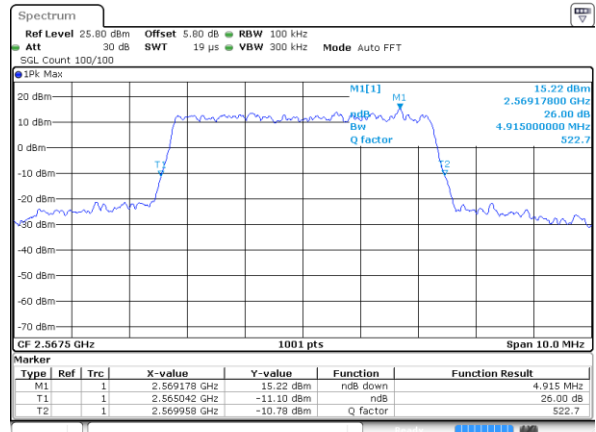
Date: 26 JUN 2020 17:18:05

Highest Channel / 5MHz / QPSK



Date: 26 JUN 2020 17:18:46

Highest Channel / 5MHz / 16QAM

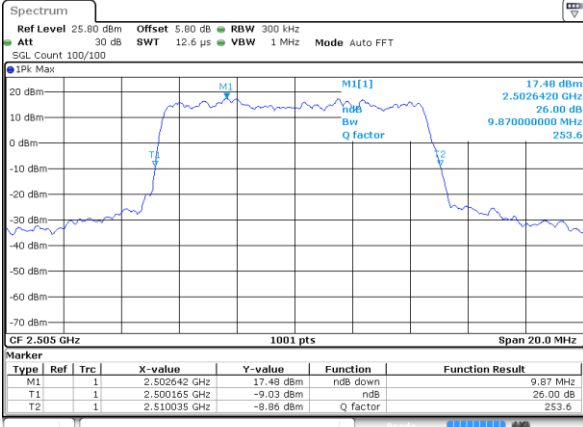


Date: 26 JUN 2020 17:19:06



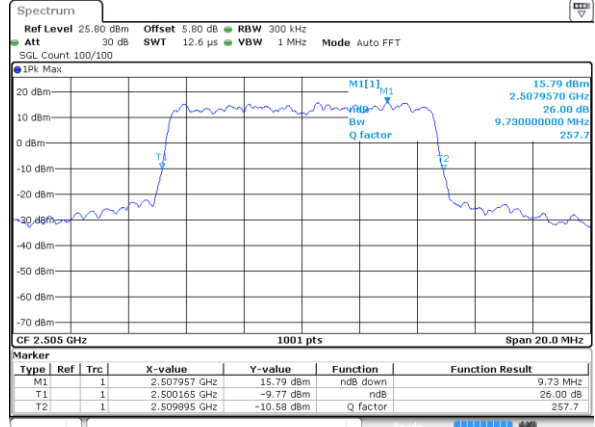
LTE Band 7

Lowest Channel / 10MHz / QPSK



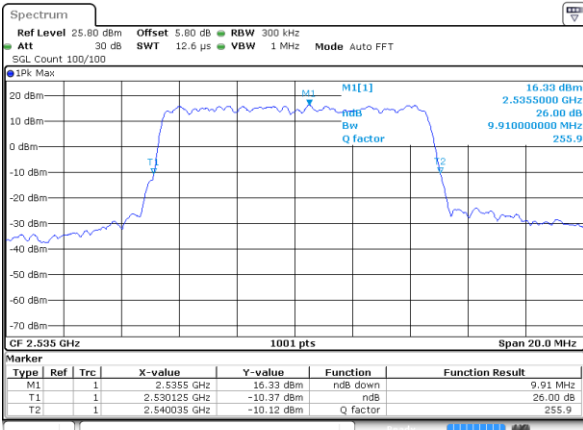
Date: 26 JUN 2020 17:33:56

Lowest Channel / 10MHz / 16QAM



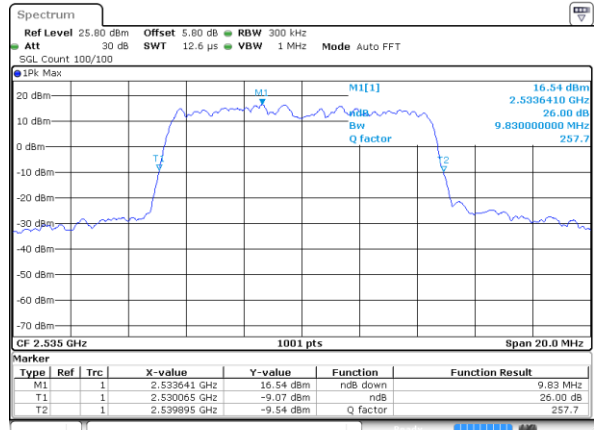
Date: 26 JUN 2020 17:34:16

Middle Channel / 10MHz / QPSK



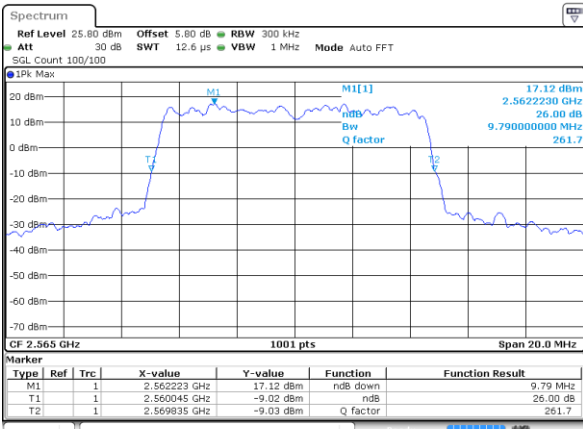
Date: 26 JUN 2020 17:34:56

Middle Channel / 10MHz / 16QAM



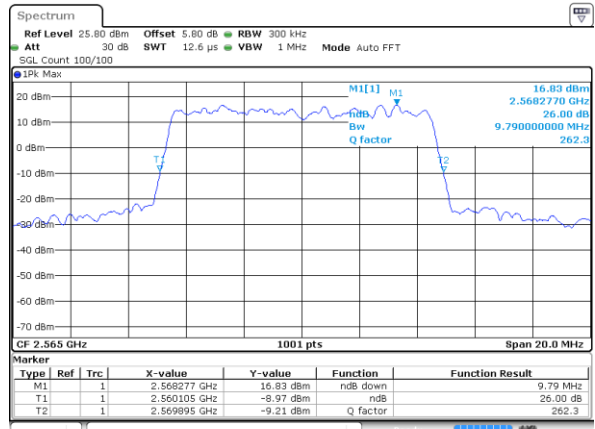
Date: 26 JUN 2020 17:34:36

Highest Channel / 10MHz / QPSK



Date: 26 JUN 2020 17:35:16

Highest Channel / 10MHz / 16QAM

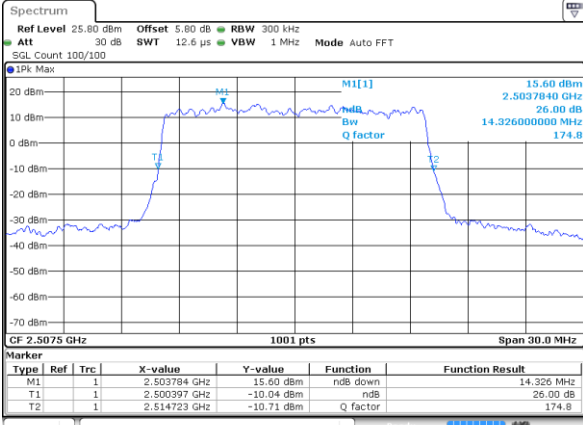


Date: 26 JUN 2020 17:35:36



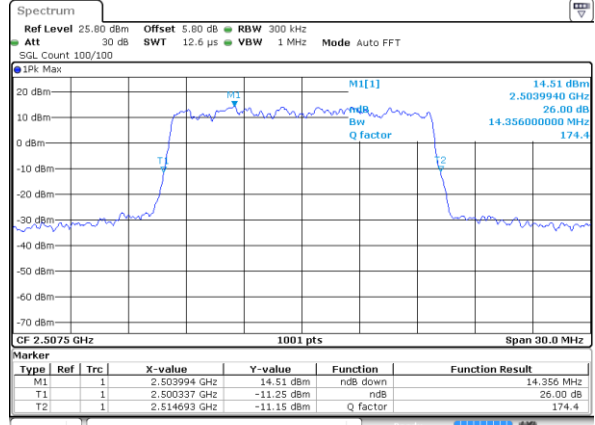
LTE Band 7

Lowest Channel / 15MHz / QPSK



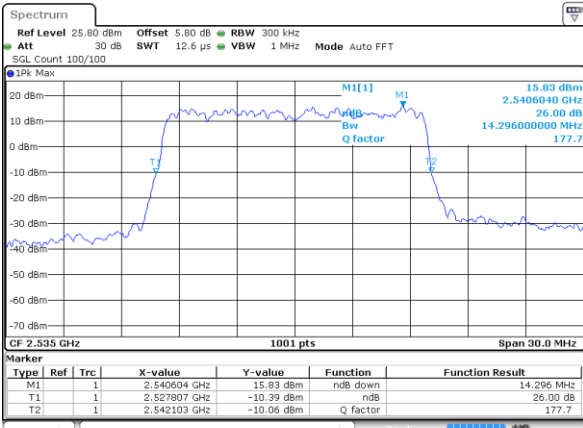
Date: 26 JUN 2020 17:50:45

Lowest Channel / 15MHz / 16QAM



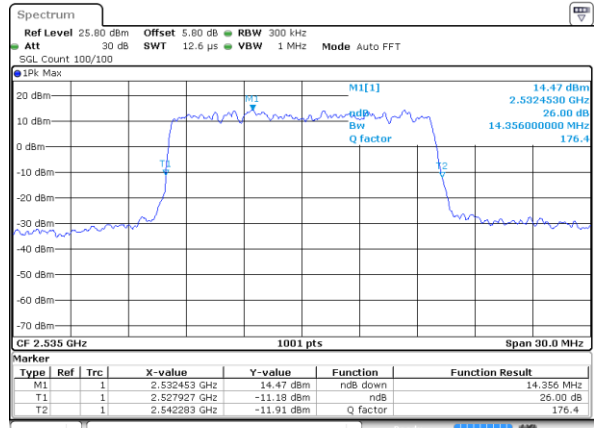
Date: 26 JUN 2020 17:50:25

Middle Channel / 15MHz / QPSK



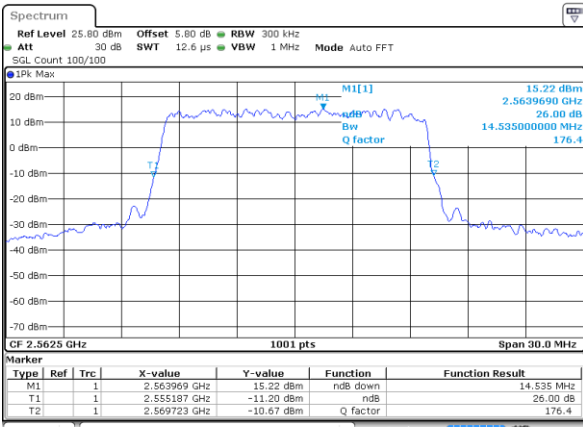
Date: 26 JUN 2020 17:51:05

Middle Channel / 15MHz / 16QAM



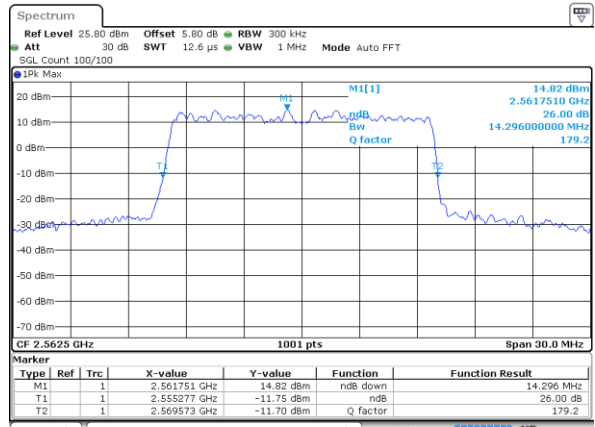
Date: 26 JUN 2020 17:51:25

Highest Channel / 15MHz / QPSK



Date: 26 JUN 2020 17:52:05

Highest Channel / 15MHz / 16QAM

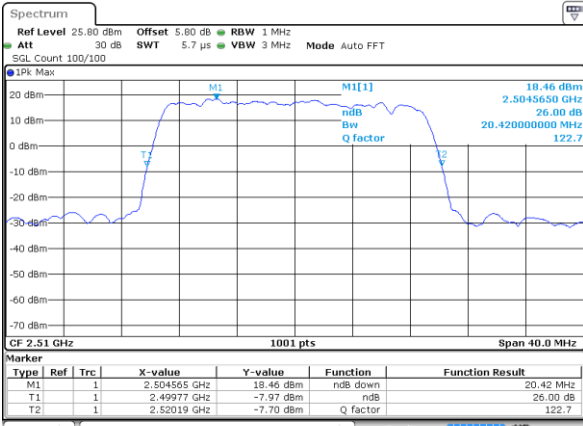


Date: 26 JUN 2020 17:51:45



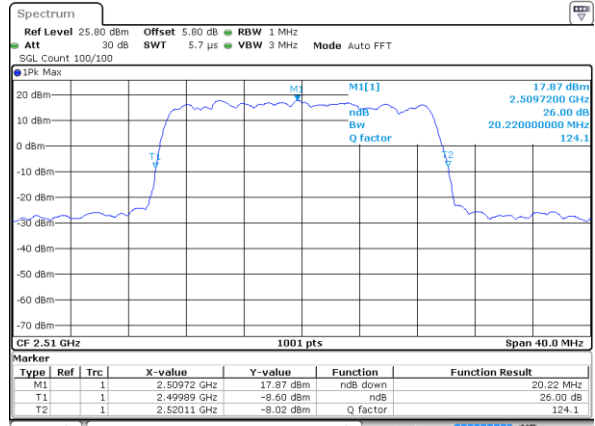
LTE Band 7

Lowest Channel / 20MHz / QPSK



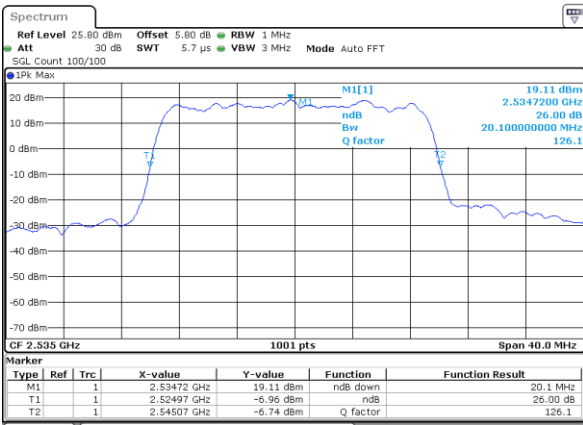
Date: 26 JUN 2020 18:07:15

Lowest Channel / 20MHz / 16QAM



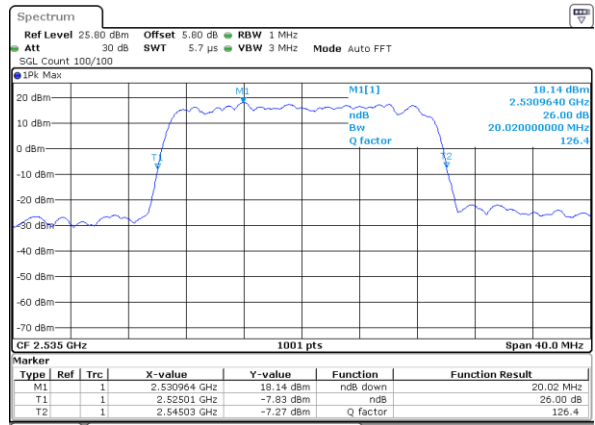
Date: 26 JUN 2020 18:06:55

Middle Channel / 20MHz / QPSK



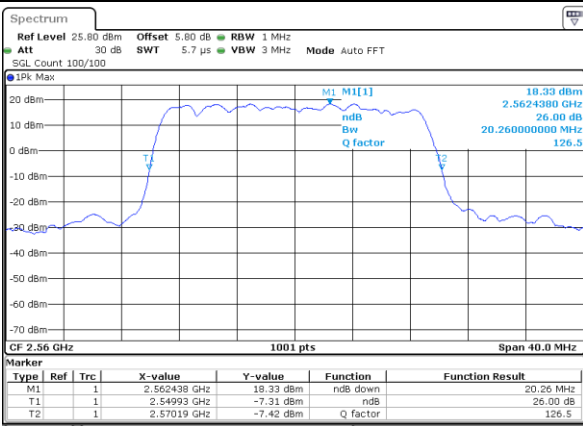
Date: 26 JUN 2020 18:07:35

Middle Channel / 20MHz / 16QAM



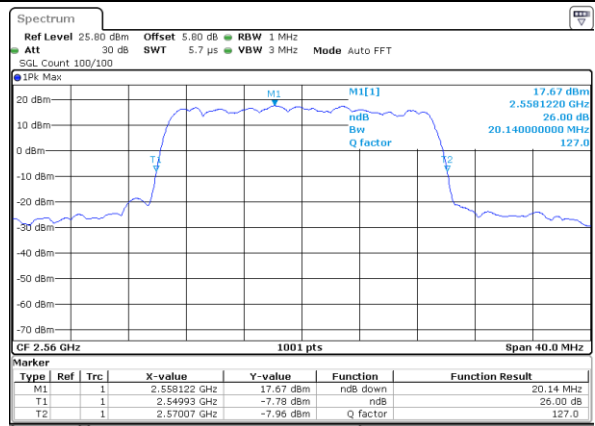
Date: 26 JUN 2020 18:07:55

Highest Channel / 20MHz / QPSK



Date: 26 JUN 2020 18:08:35

Highest Channel / 20MHz / 16QAM

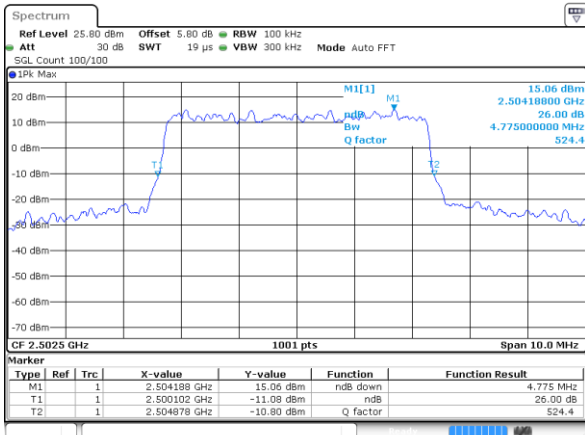


Date: 26 JUN 2020 18:08:15



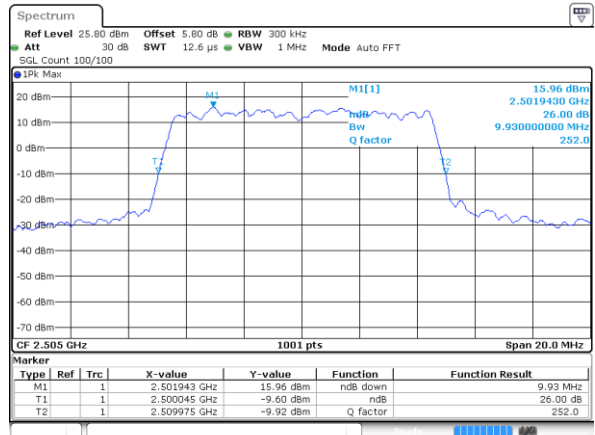
LTE Band 7

Lowest Channel / 5MHz / 64QAM



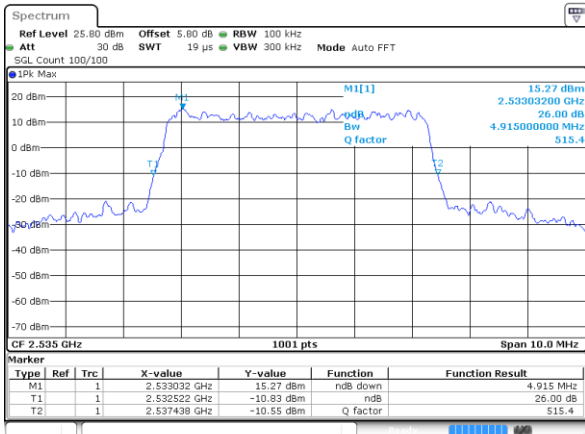
Date: 26 JUN 2020 18:23:45

Lowest Channel / 10MHz / 64QAM



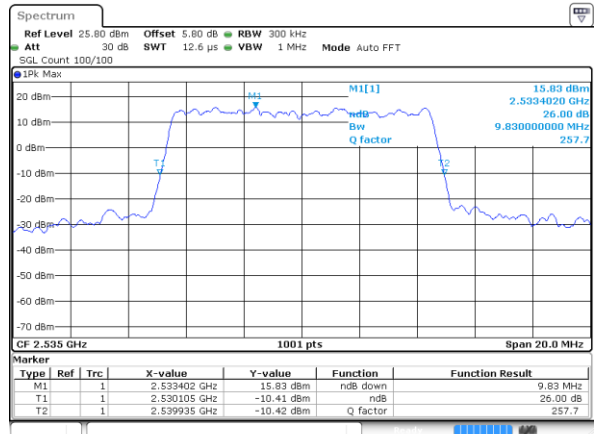
Date: 26 JUN 2020 18:32:00

Middle Channel / 5MHz / 64QAM



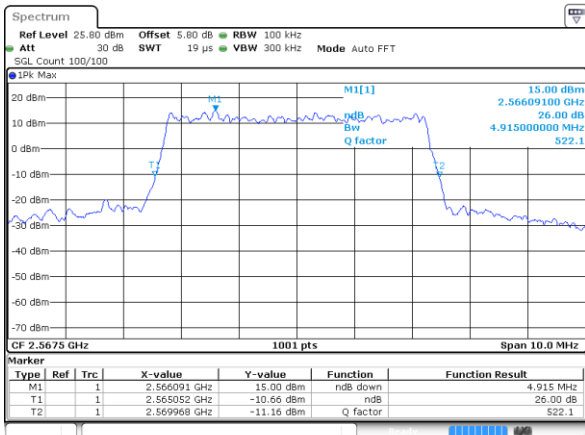
Date: 26 JUN 2020 18:23:55

Middle Channel / 10MHz / 64QAM



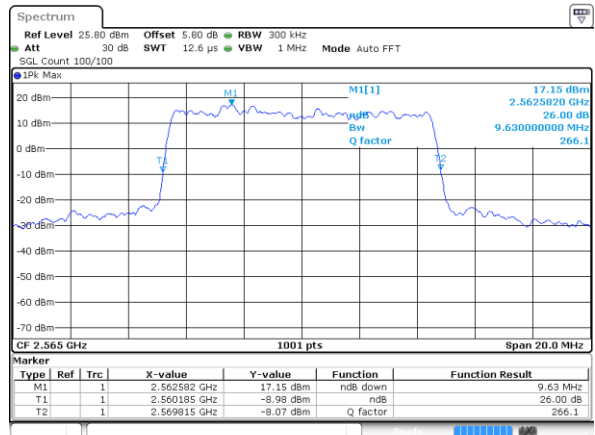
Date: 26 JUN 2020 18:32:10

Highest Channel / 5MHz / 64QAM



Date: 26 JUN 2020 18:24:05

Highest Channel / 10MHz / 64QAM

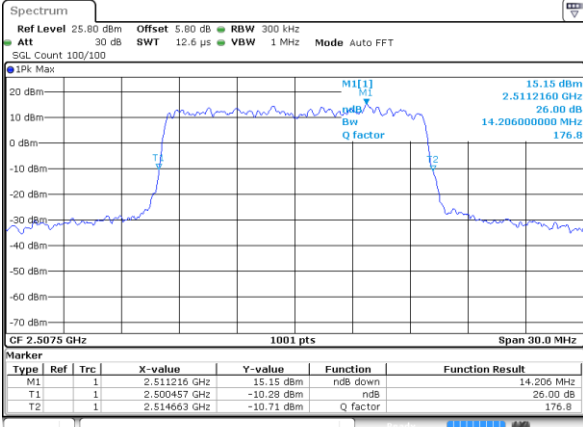


Date: 26 JUN 2020 18:32:20



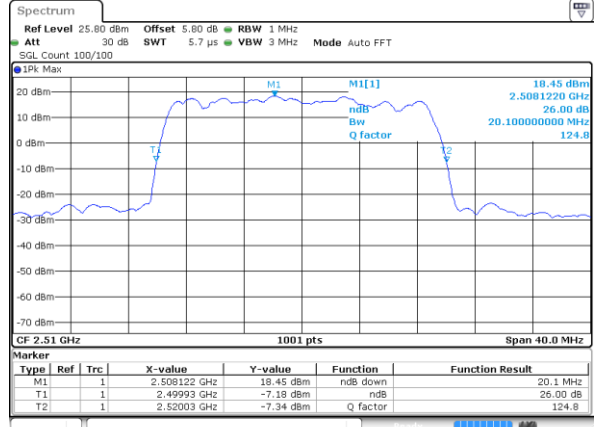
LTE Band 7

Lowest Channel / 15MHz / 64QAM



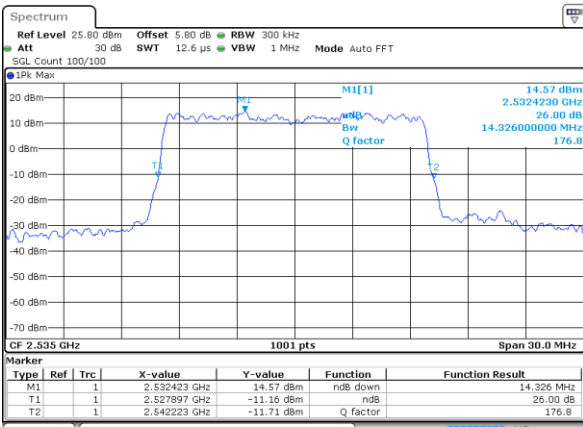
Date: 26 JUN 2020 18:40:14

Lowest Channel / 20MHz / 64QAM



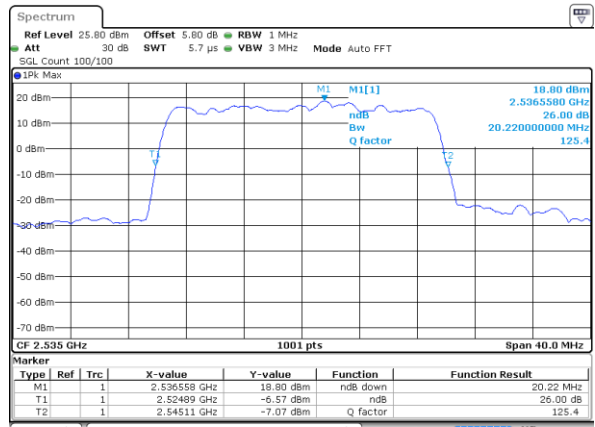
Date: 26 JUN 2020 18:48:29

Middle Channel / 15MHz / 64QAM



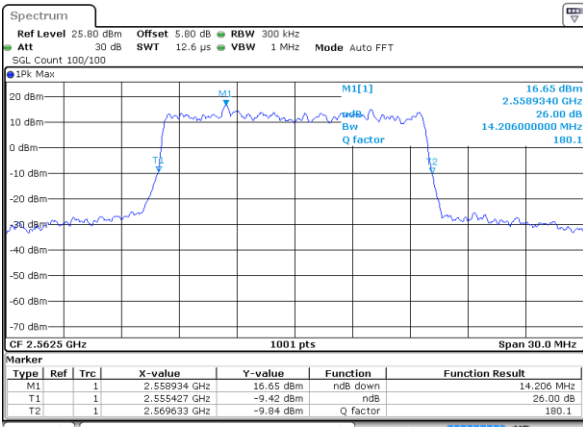
Date: 26 JUN 2020 18:40:24

Middle Channel / 20MHz / 64QAM



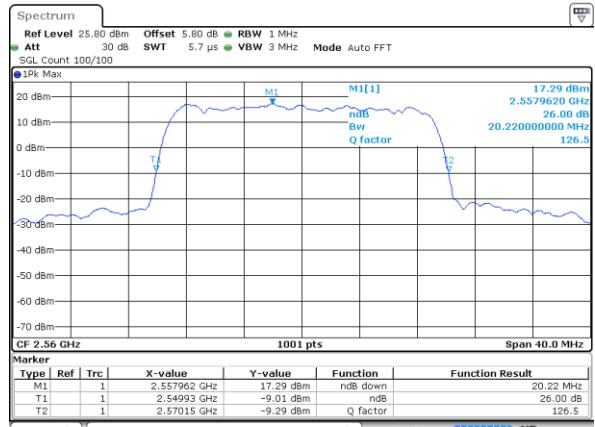
Date: 26 JUN 2020 18:48:39

Highest Channel / 15MHz / 64QAM



Date: 26 JUN 2020 18:40:35

Highest Channel / 20MHz / 64QAM



Date: 26 JUN 2020 18:48:50



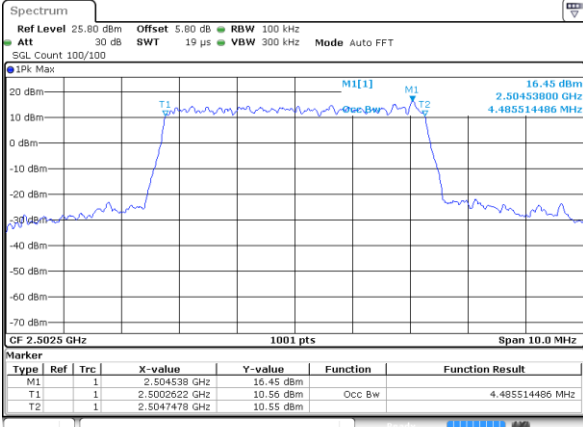
Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.49	4.51	8.99	8.99	13.40	13.43	18.18	18.14
Middle CH	-	-	-	-	4.48	4.49	9.11	8.97	13.43	13.43	18.34	18.34
Highest CH	-	-	-	-	4.48	4.51	9.03	9.03	13.43	13.46	18.26	18.42
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.48	-	8.99	-	13.40	-	18.30	-
Middle CH	-	-	-	-	4.50	-	9.01	-	13.40	-	18.26	-
Highest CH	-	-	-	-	4.50	-	9.01	-	13.43	-	18.22	-



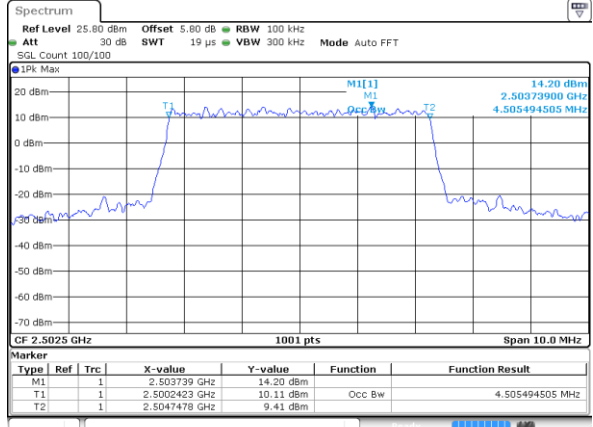
LTE Band 7

Lowest Channel / 5MHz / QPSK



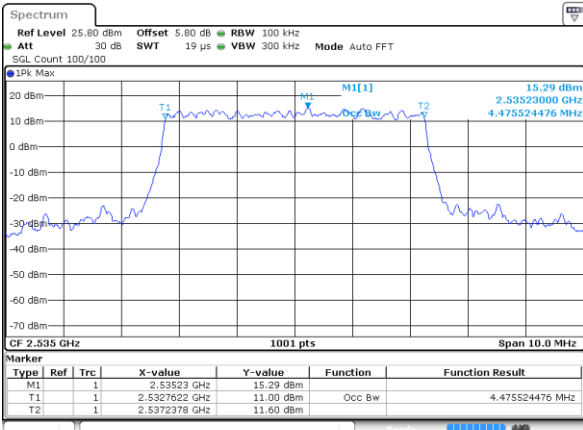
Date: 26 JUN 2020 17:17:15

Lowest Channel / 5MHz / 16QAM



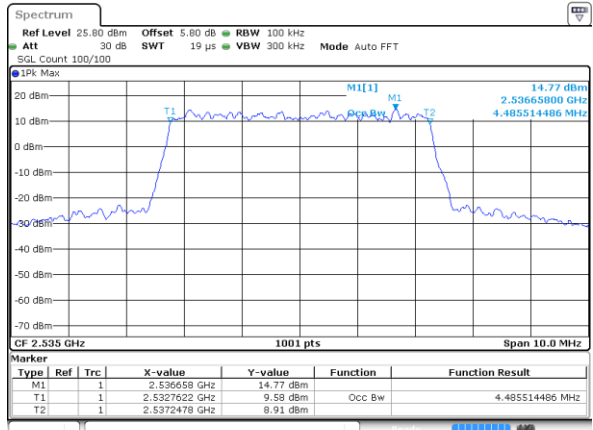
Date: 26 JUN 2020 17:17:35

Middle Channel / 5MHz / QPSK



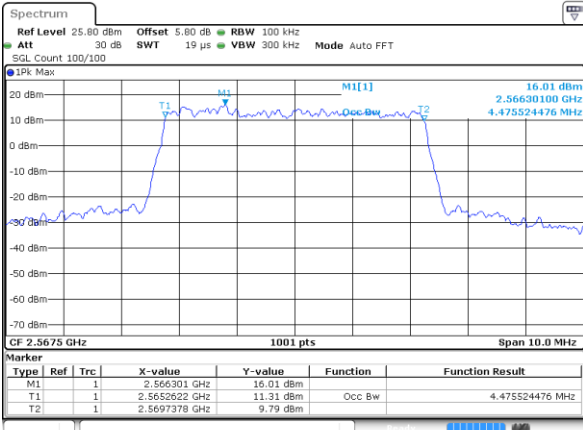
Date: 26 JUN 2020 17:18:16

Middle Channel / 5MHz / 16QAM



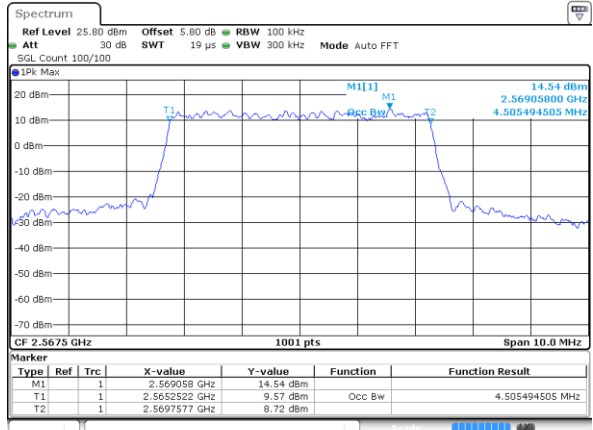
Date: 26 JUN 2020 17:17:55

Highest Channel / 5MHz / QPSK



Date: 26 JUN 2020 17:18:36

Highest Channel / 5MHz / 16QAM

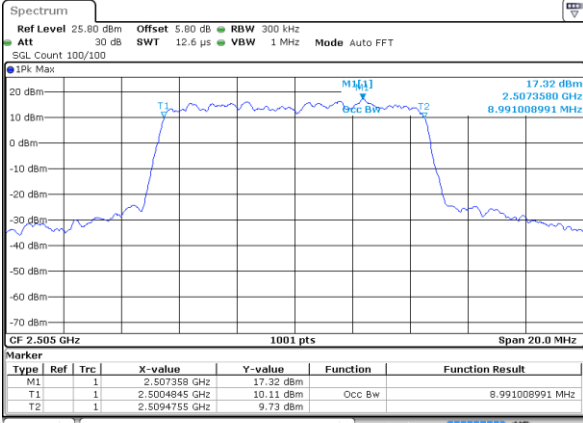


Date: 26 JUN 2020 17:18:56



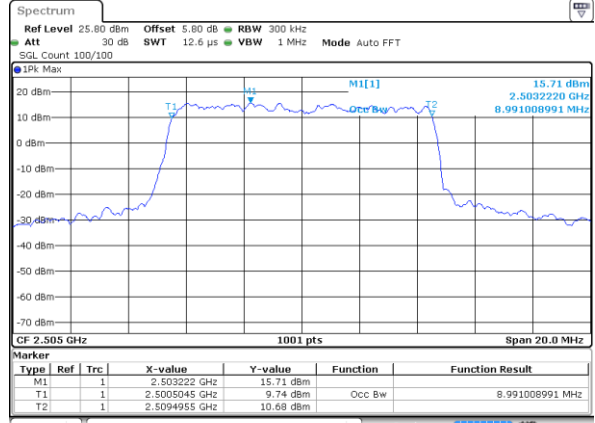
LTE Band 7

Lowest Channel / 10MHz / QPSK



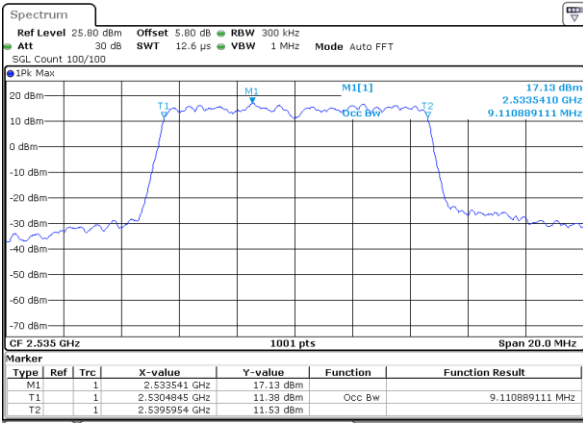
Date: 26 JUN 2020 17:33:46

Lowest Channel / 10MHz / 16QAM



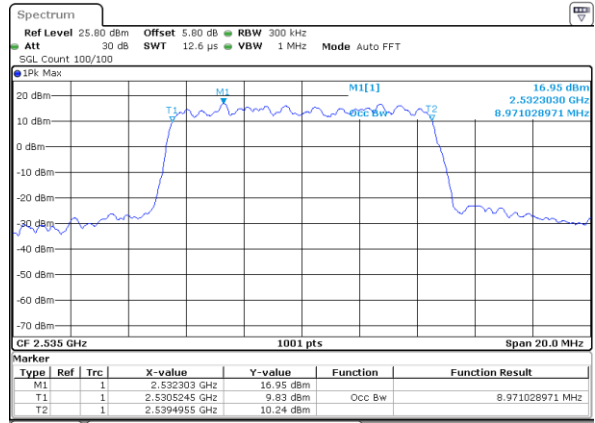
Date: 26 JUN 2020 17:34:06

Middle Channel / 10MHz / QPSK



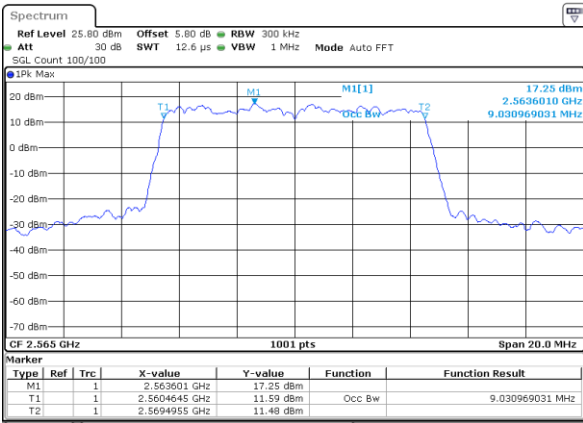
Date: 26 JUN 2020 17:34:46

Middle Channel / 10MHz / 16QAM



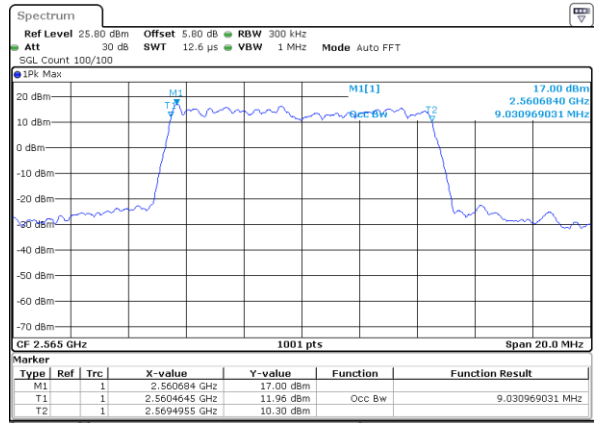
Date: 26 JUN 2020 17:34:26

Highest Channel / 10MHz / QPSK



Date: 26 JUN 2020 17:35:06

Highest Channel / 10MHz / 16QAM

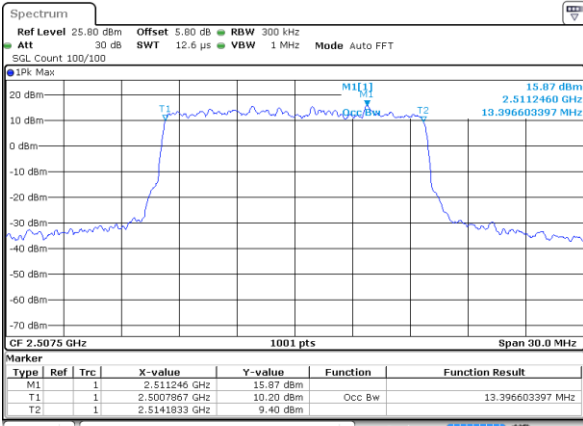


Date: 26 JUN 2020 17:35:26



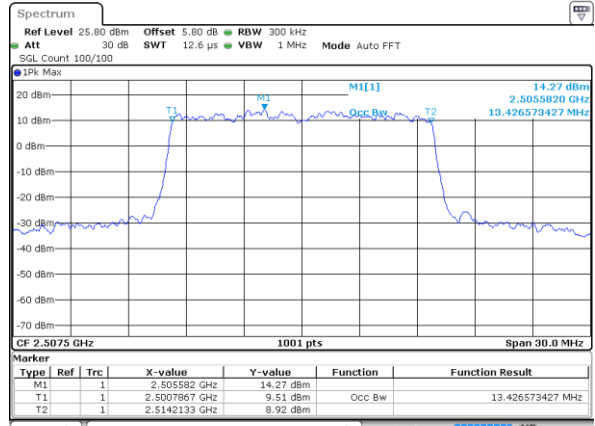
LTE Band 7

Lowest Channel / 15MHz / QPSK



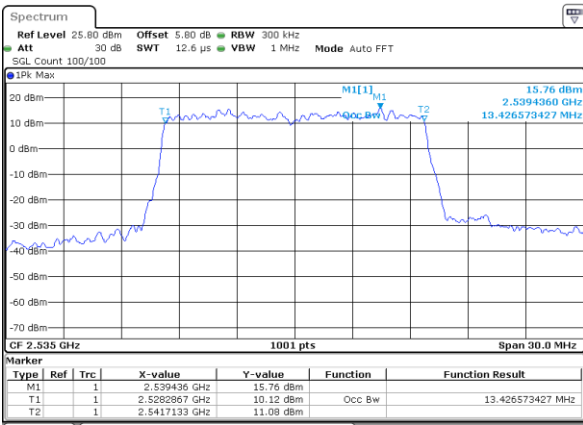
Date: 26 JUN 2020 17:50:35

Lowest Channel / 15MHz / 16QAM



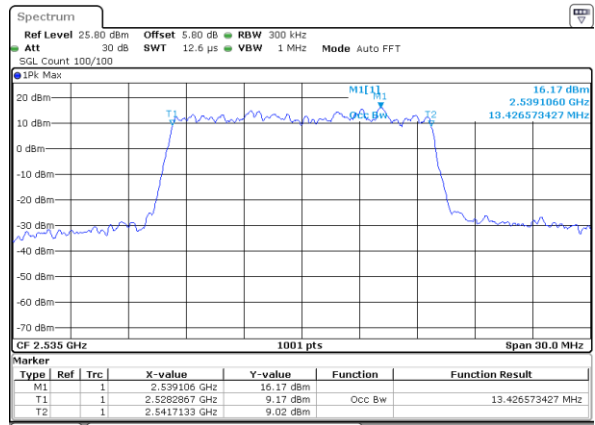
Date: 26 JUN 2020 17:50:15

Middle Channel / 15MHz / QPSK



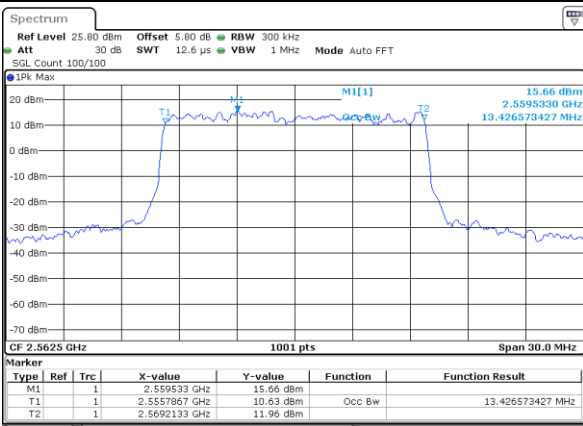
Date: 26 JUN 2020 17:50:55

Middle Channel / 15MHz / 16QAM



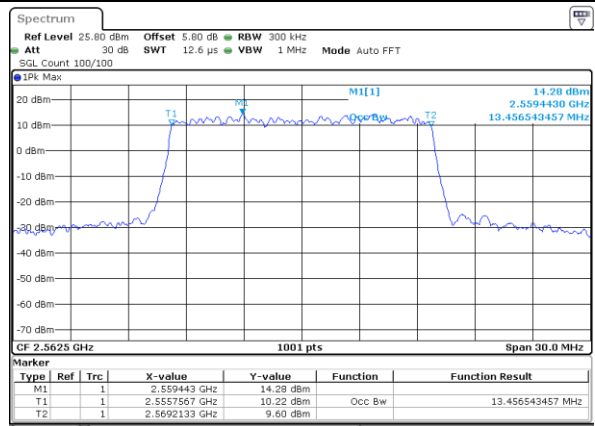
Date: 26 JUN 2020 17:51:15

Highest Channel / 15MHz / QPSK



Date: 26 JUN 2020 17:51:55

Highest Channel / 15MHz / 16QAM

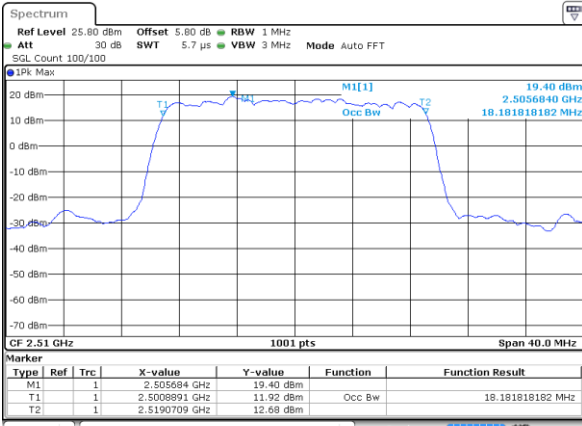


Date: 26 JUN 2020 17:51:35



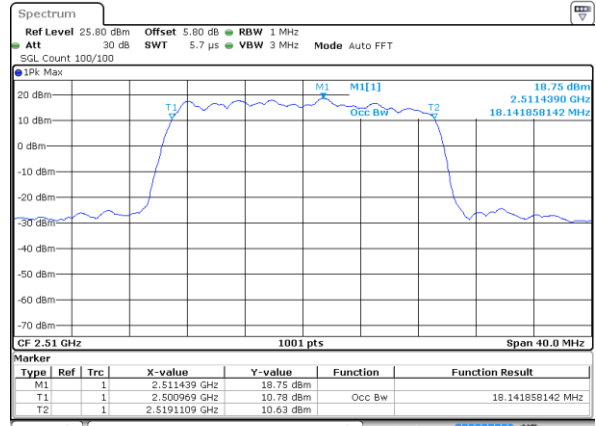
LTE Band 7

Lowest Channel / 20MHz / QPSK



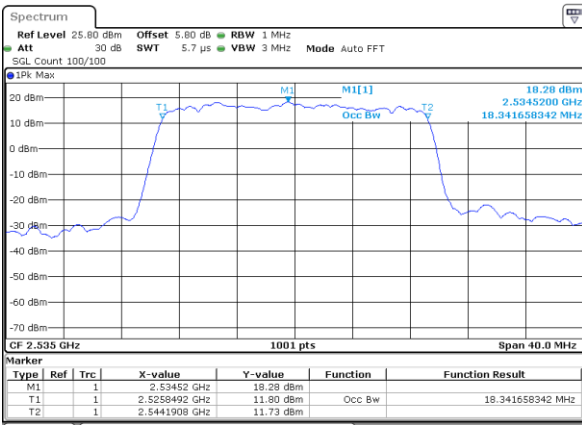
Date: 26 JUN 2020 18:07:05

Lowest Channel / 20MHz / 16QAM



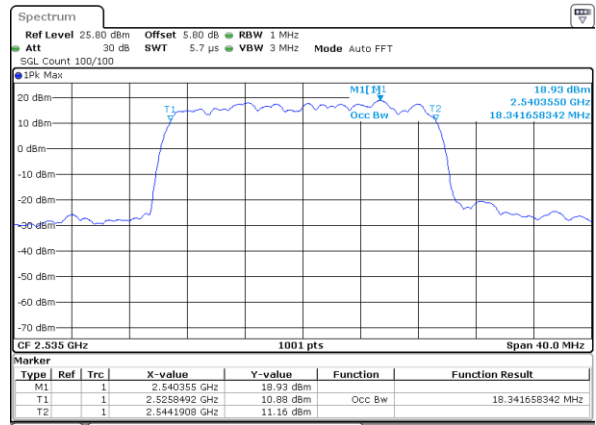
Date: 26 JUN 2020 18:06:44

Middle Channel / 20MHz / QPSK



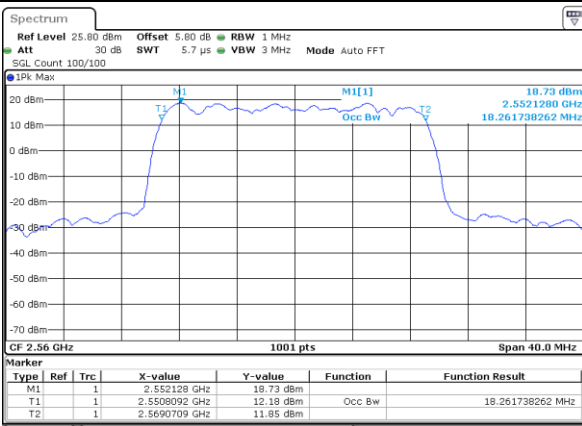
Date: 26 JUN 2020 18:07:25

Middle Channel / 20MHz / 16QAM



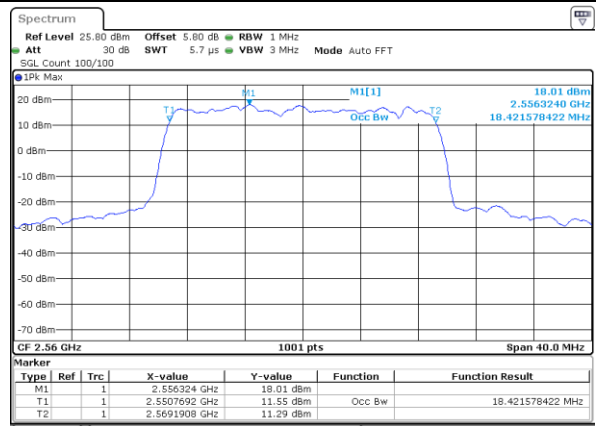
Date: 26 JUN 2020 18:07:45

Highest Channel / 20MHz / QPSK



Date: 26 JUN 2020 18:08:25

Highest Channel / 20MHz / 16QAM

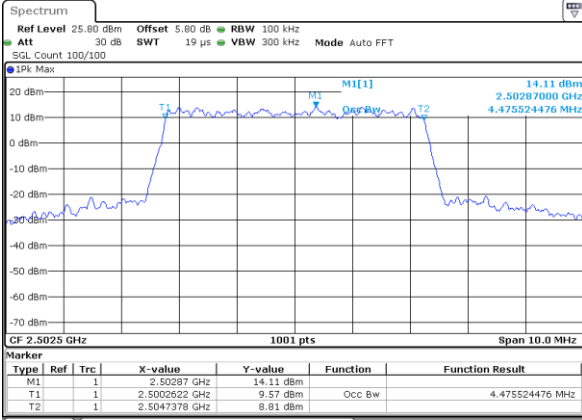


Date: 26 JUN 2020 18:08:05



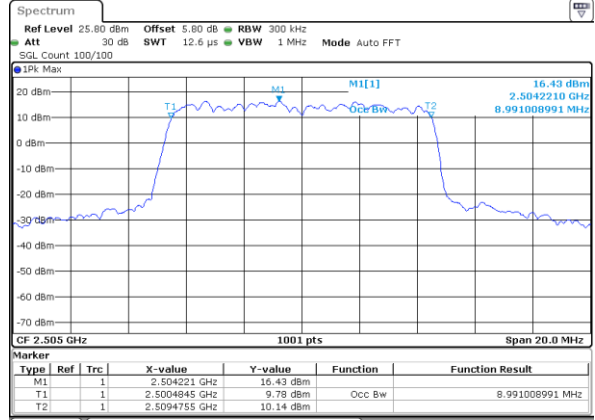
LTE Band 7

Lowest Channel / 5MHz / 64QAM



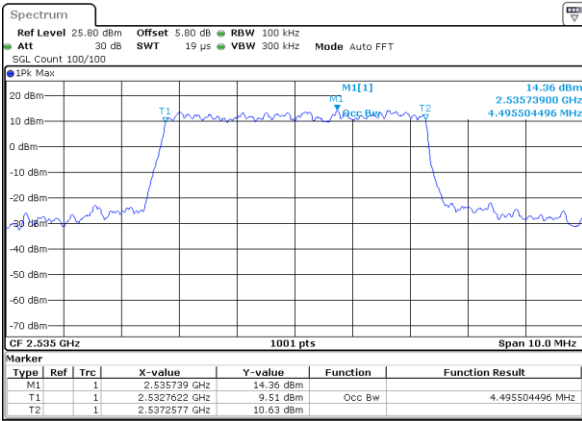
Date: 26 JUN 2020 18:23:14

Lowest Channel / 10MHz / 64QAM



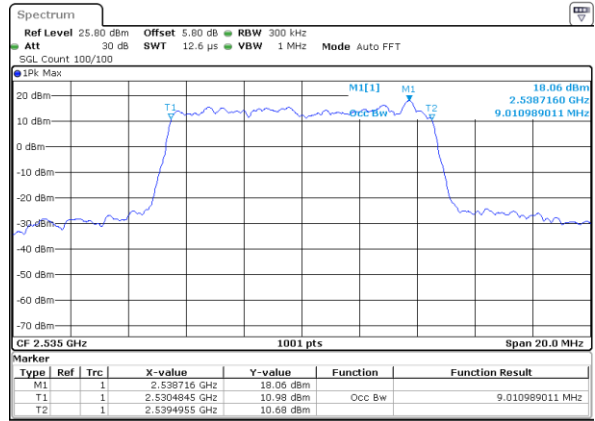
Date: 26 JUN 2020 18:31:30

Middle Channel / 5MHz / 64QAM



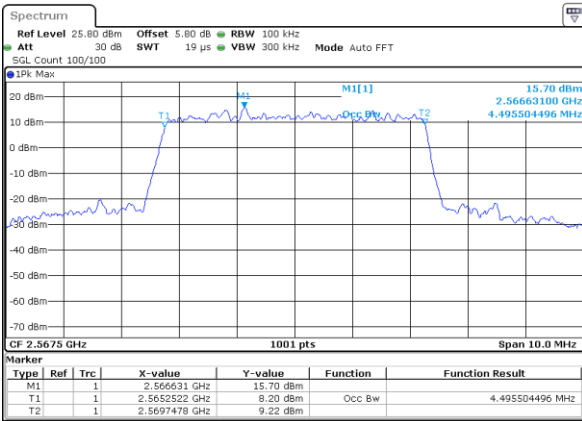
Date: 26 JUN 2020 18:23:24

Middle Channel / 10MHz / 64QAM



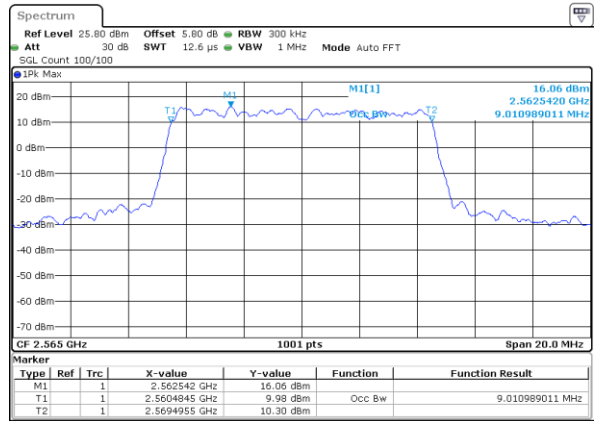
Date: 26 JUN 2020 18:31:40

Highest Channel / 5MHz / 64QAM



Date: 26 JUN 2020 18:23:35

Highest Channel / 10MHz / 64QAM

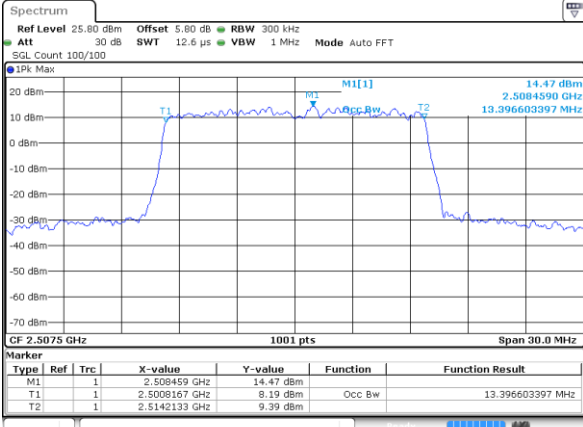


Date: 26 JUN 2020 18:31:50



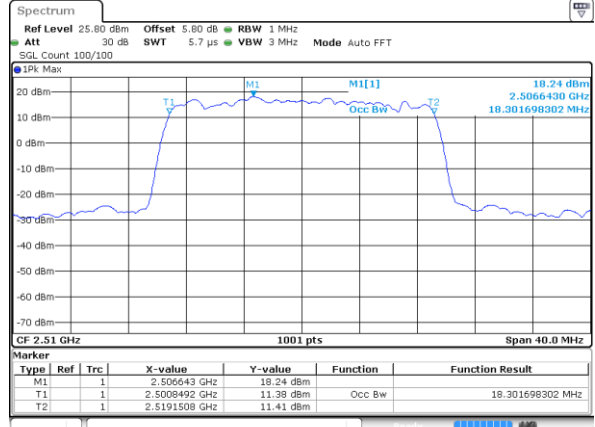
LTE Band 7

Lowest Channel / 15MHz / 64QAM



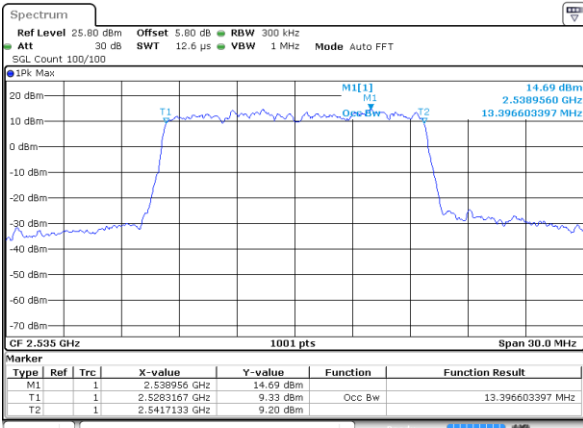
Date: 26 JUN 2020 18:39:44

Lowest Channel / 20MHz / 64QAM



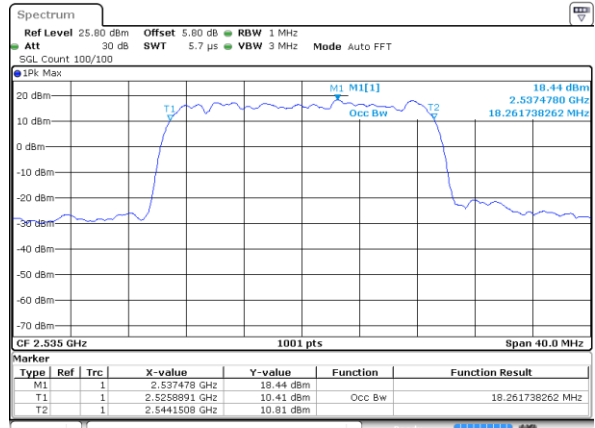
Date: 26 JUN 2020 18:47:59

Middle Channel / 15MHz / 64QAM



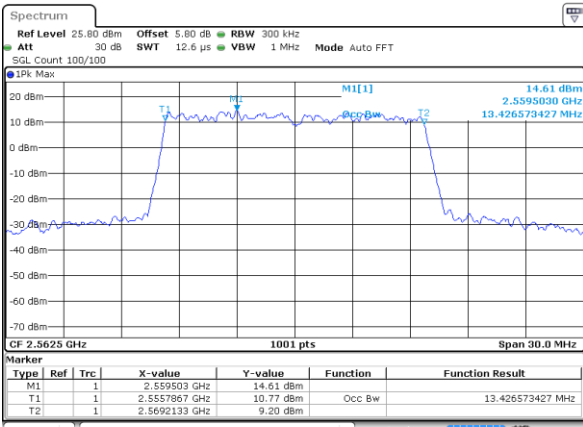
Date: 26 JUN 2020 18:39:54

Middle Channel / 20MHz / 64QAM



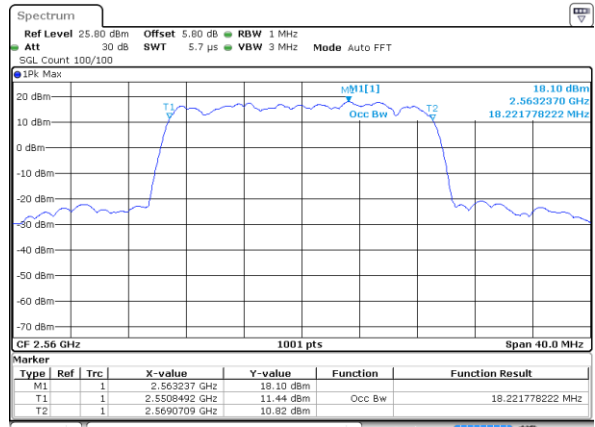
Date: 26 JUN 2020 18:48:09

Highest Channel / 15MHz / 64QAM



Date: 26 JUN 2020 18:40:04

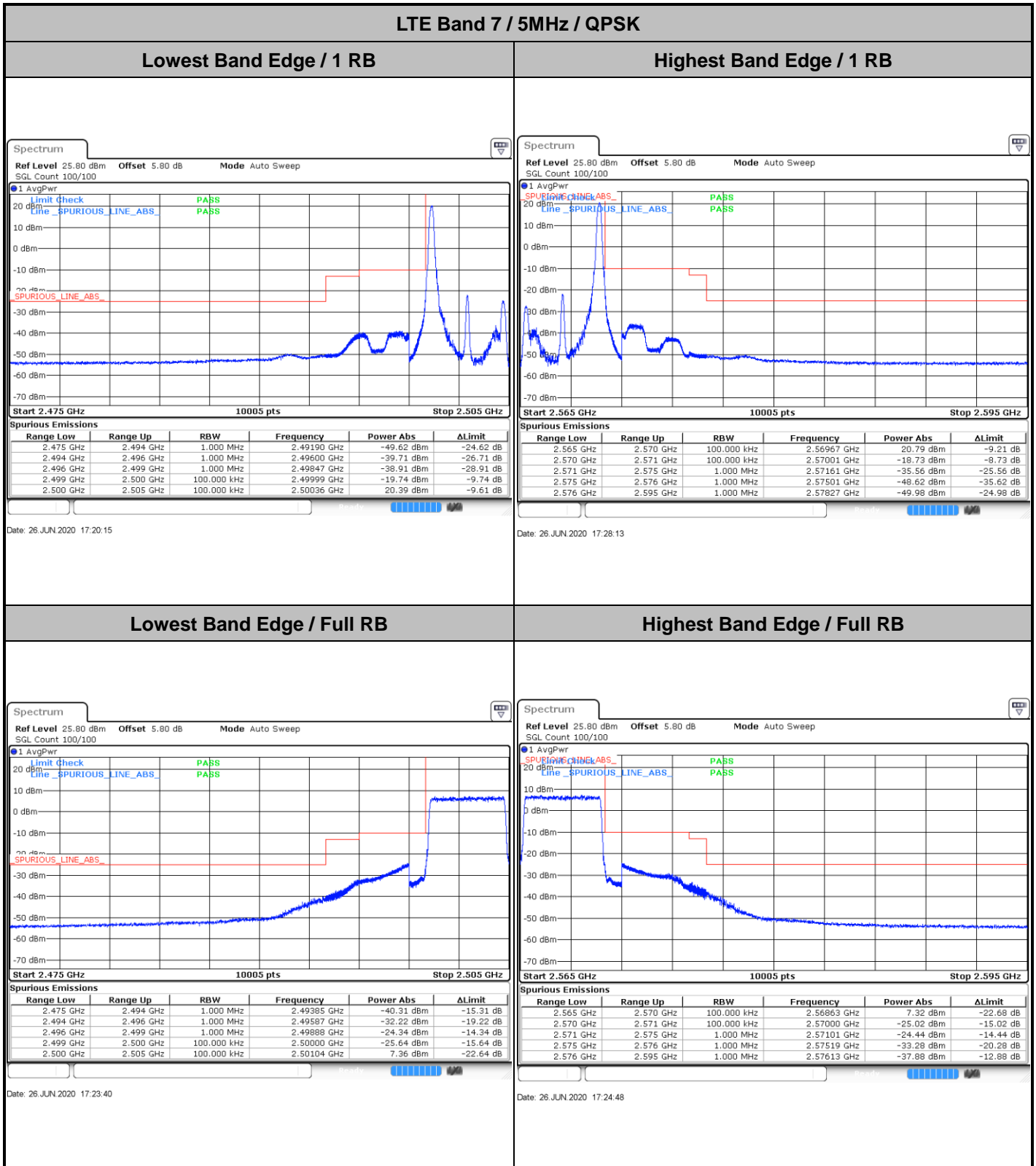
Highest Channel / 20MHz / 64QAM



Date: 26 JUN 2020 18:48:19



Conducted Band Edge

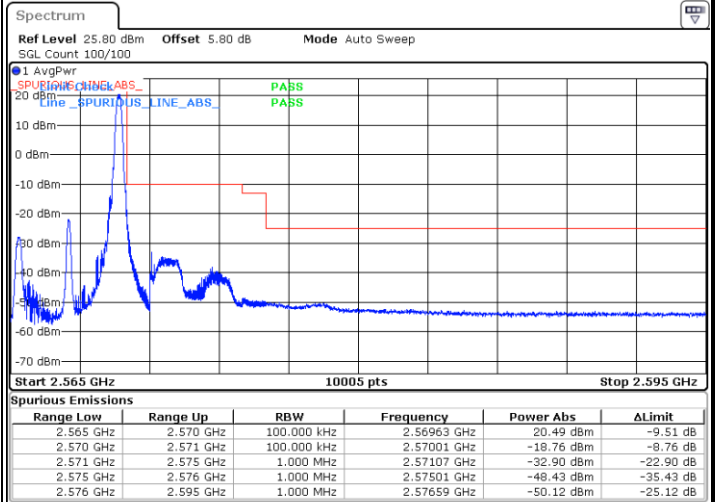
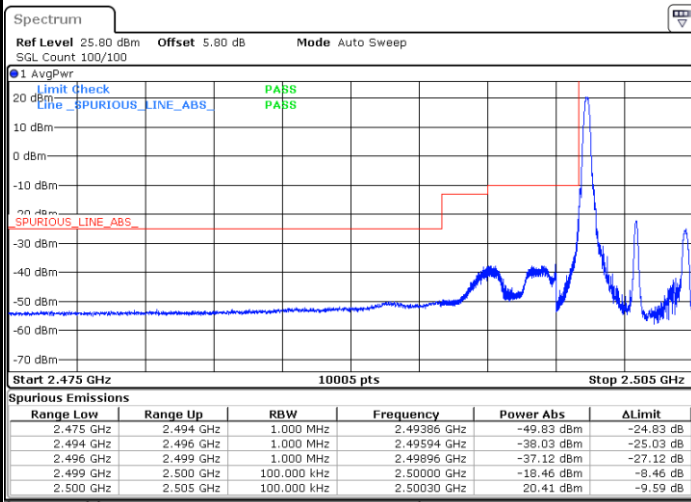




LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

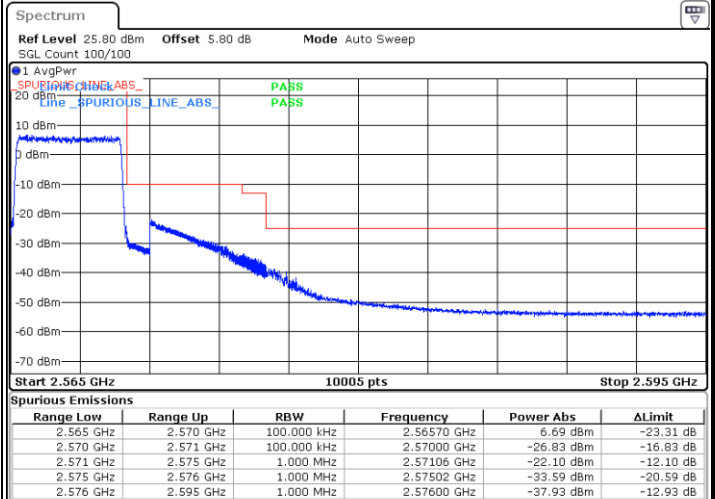
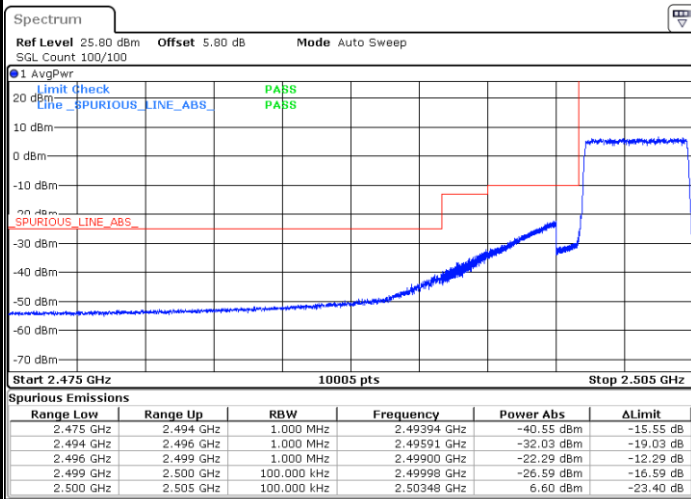


Date: 26 JUN 2020 17:21:23

Date: 26 JUN 2020 17:27:05

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



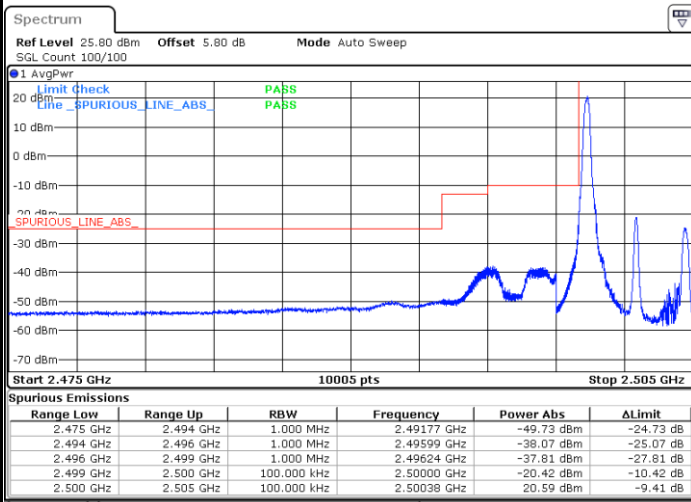
Date: 26 JUN 2020 17:22:32

Date: 26 JUN 2020 17:25:56



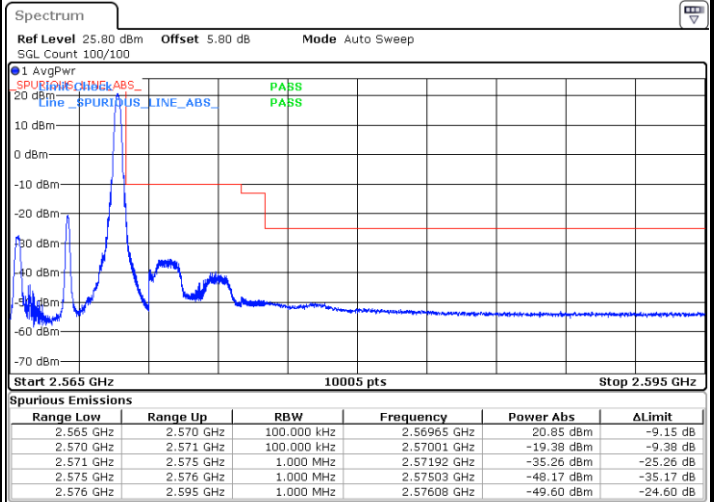
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



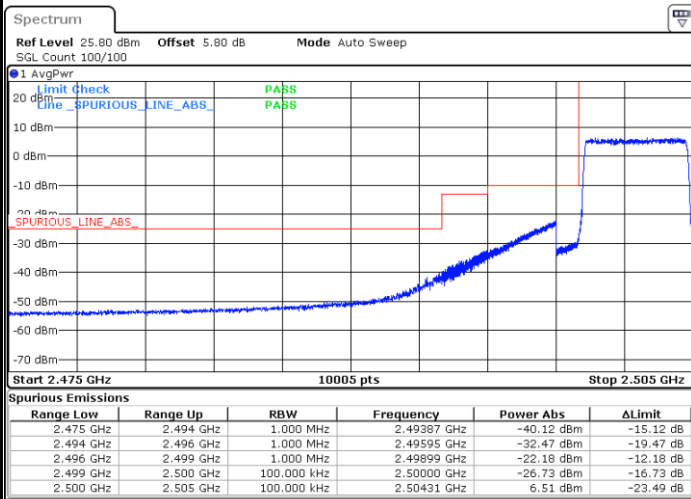
Date: 26 JUN 2020 18:27:55

Highest Band Edge / 1 RB



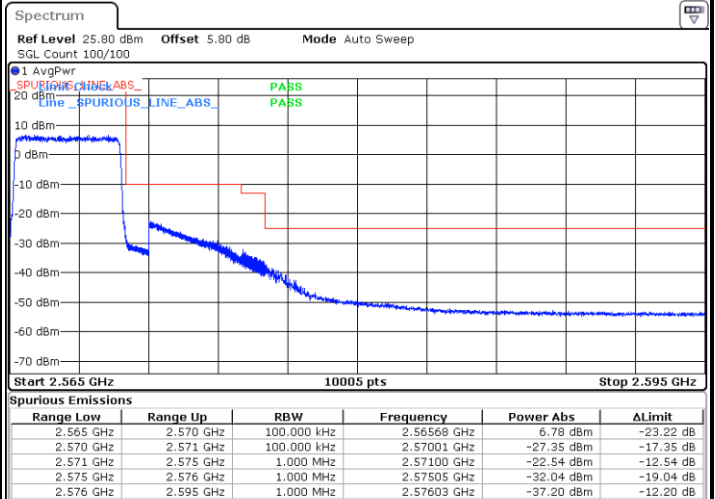
Date: 26 JUN 2020 18:30:12

Lowest Band Edge / Full RB



Date: 26 JUN 2020 18:29:04

Highest Band Edge / Full RB

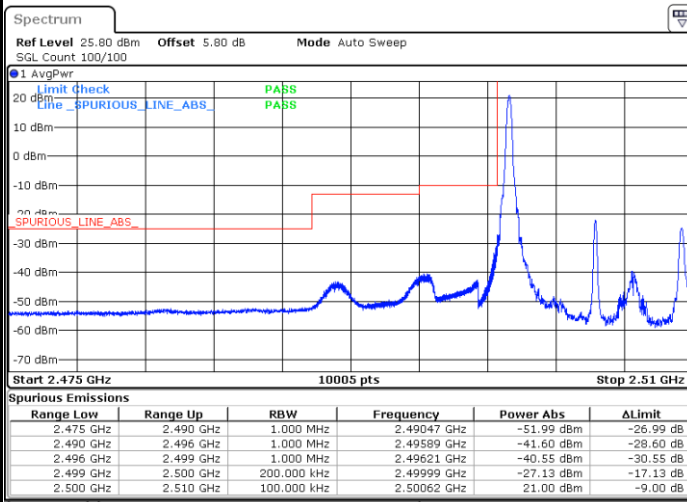


Date: 26 JUN 2020 18:31:20



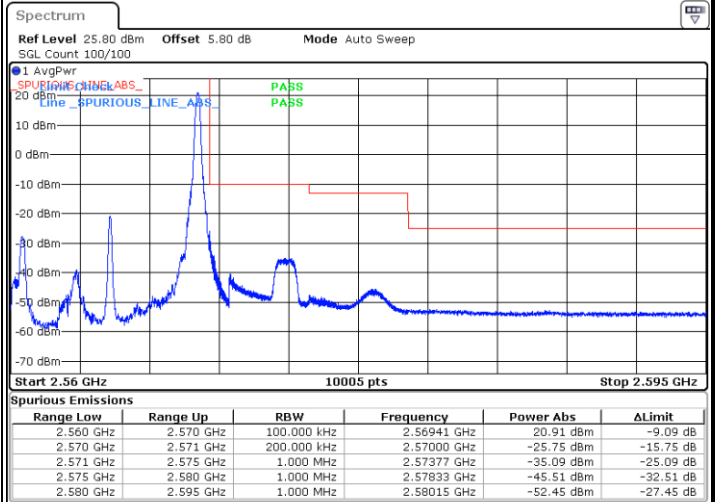
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



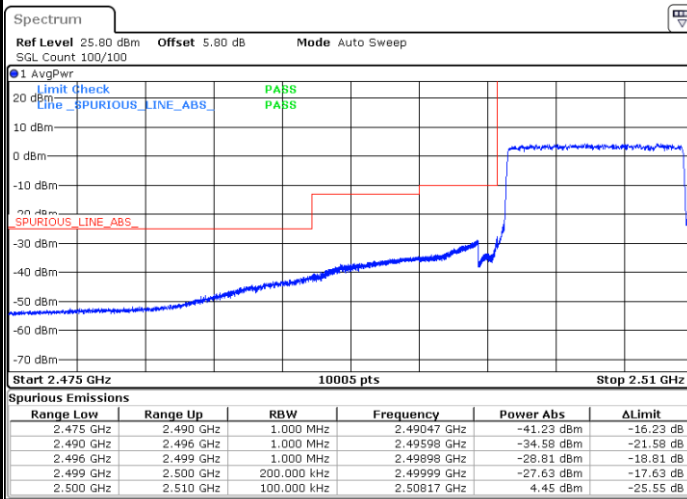
Date: 26 JUN 2020 17:36:45

Highest Band Edge / 1 RB



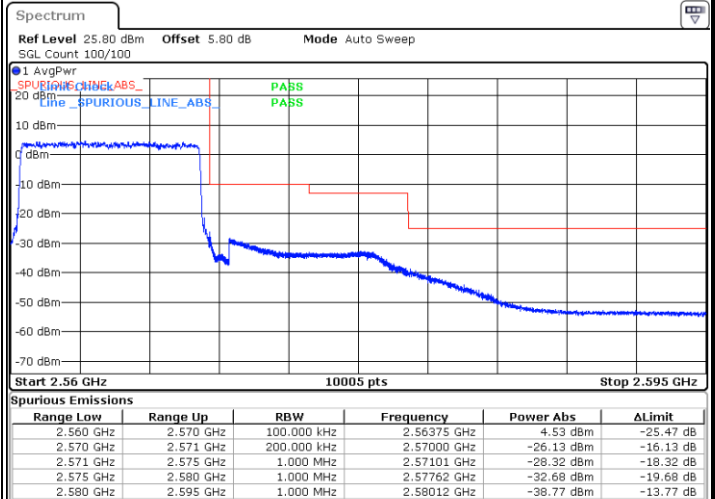
Date: 26 JUN 2020 17:44:42

Lowest Band Edge / Full RB



Date: 26 JUN 2020 17:40:09

Highest Band Edge / Full RB



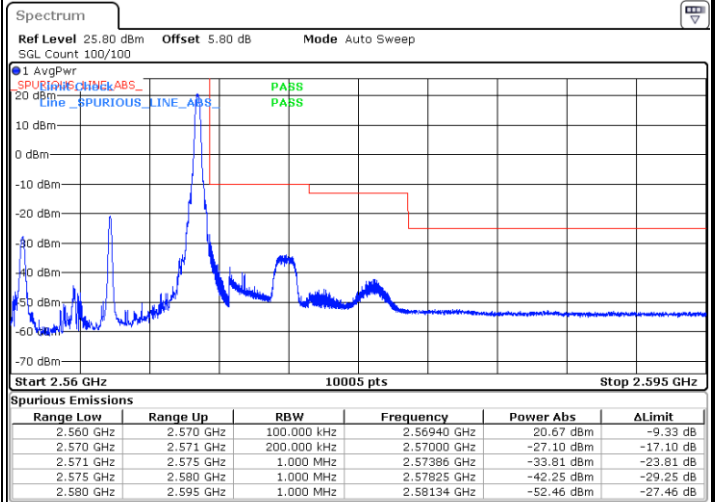
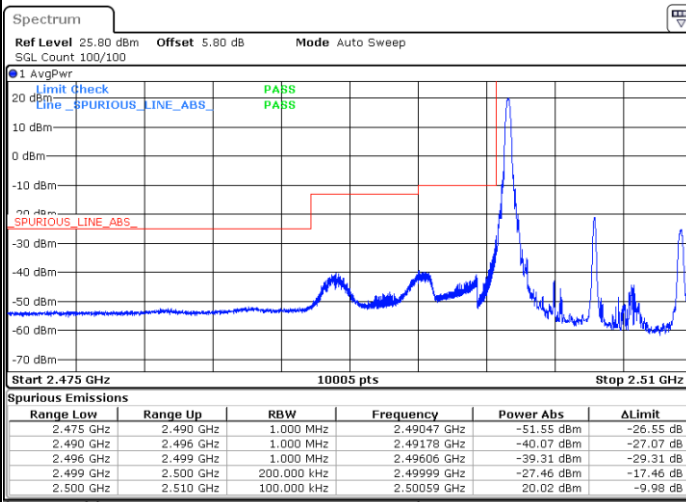
Date: 26 JUN 2020 17:41:17



LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

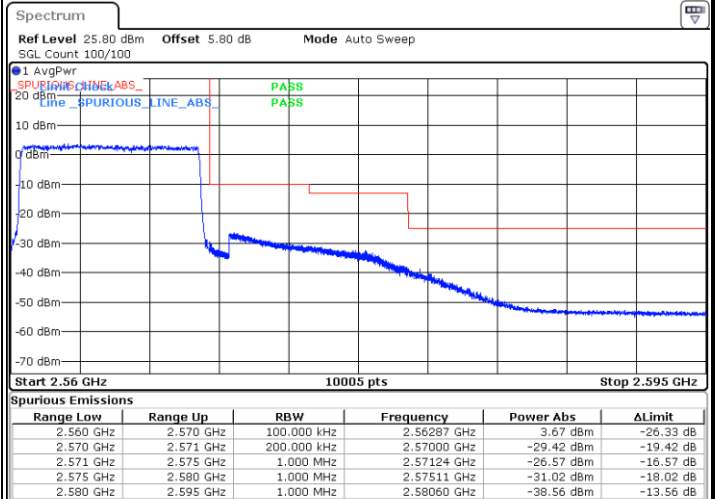
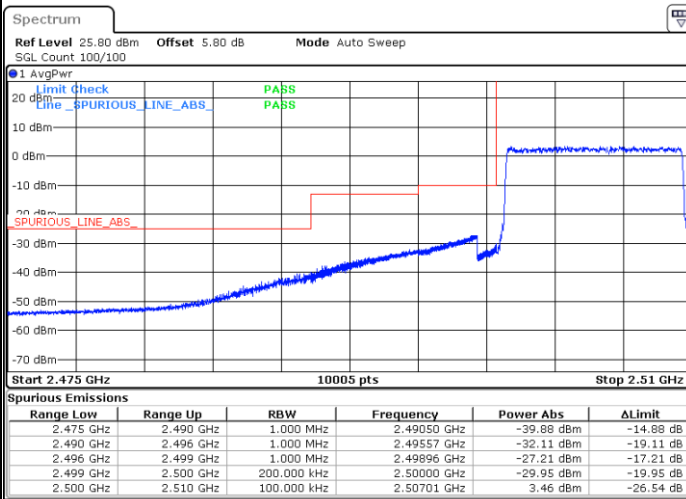


Date: 26 JUN 2020 17:37:53

Date: 26 JUN 2020 17:43:34

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 26 JUN 2020 17:39:01

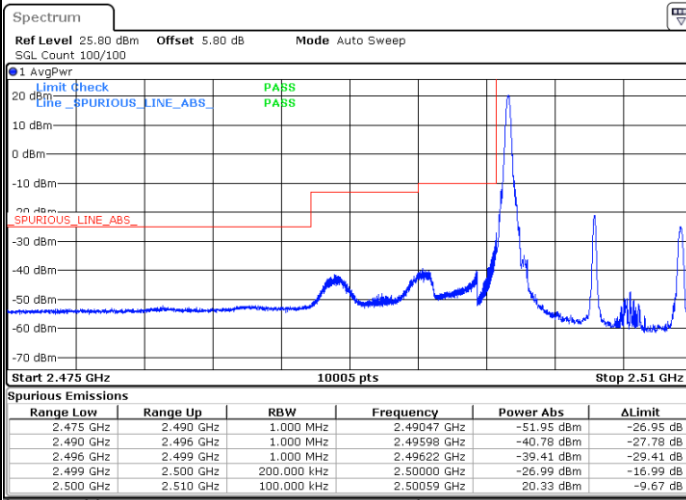
Date: 26 JUN 2020 17:42:26



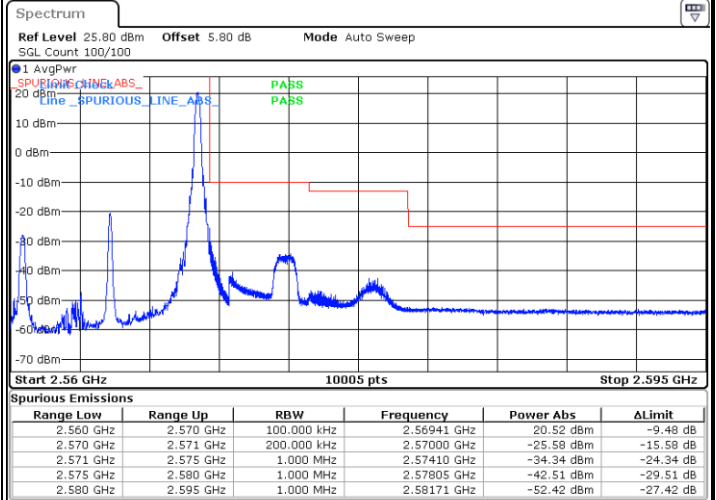
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



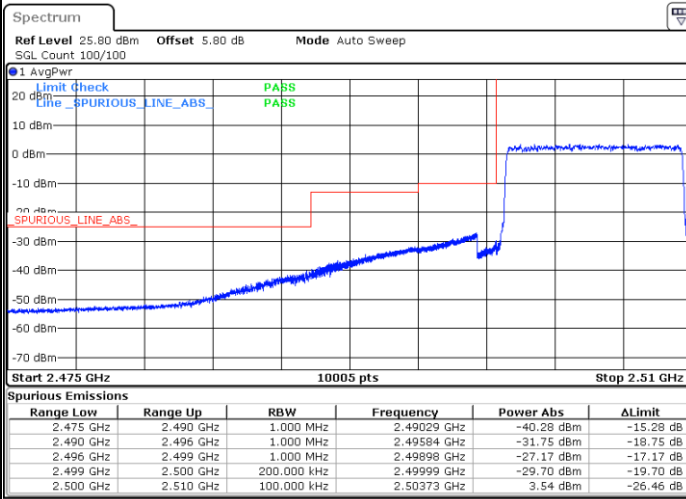
Date: 26 JUN 2020 18:36:10



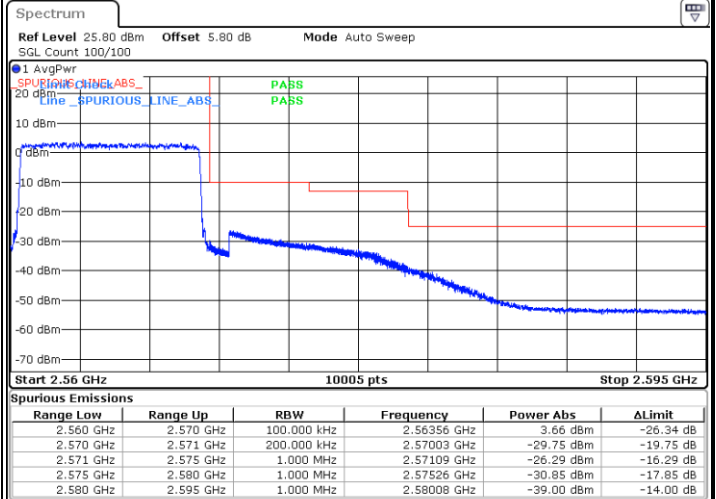
Date: 26 JUN 2020 18:38:26

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 26 JUN 2020 18:37:18



Date: 26 JUN 2020 18:39:34