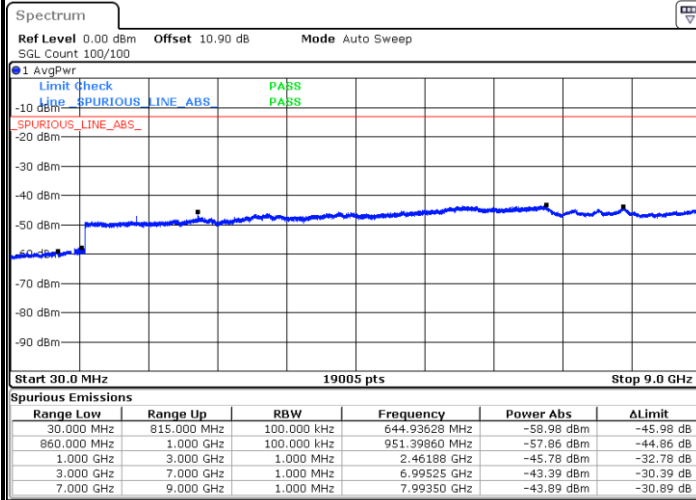




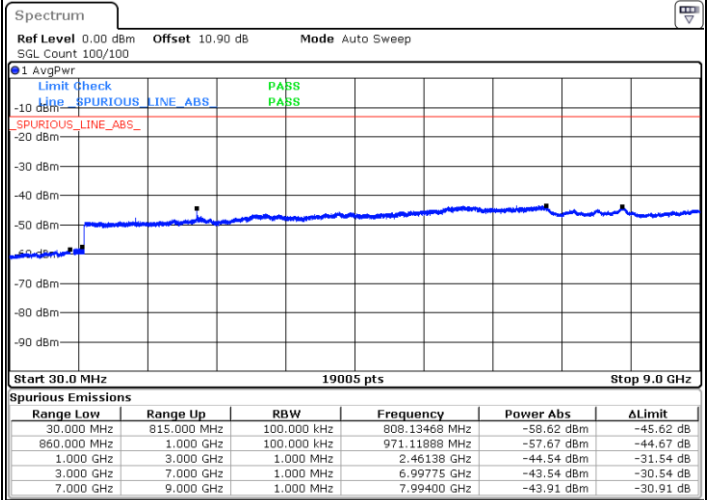
LTE Band 26 / 15MHz

Highest Channel / QPSK



Date: 1.AUG.2020 21:43:32

Highest Channel / 16QAM

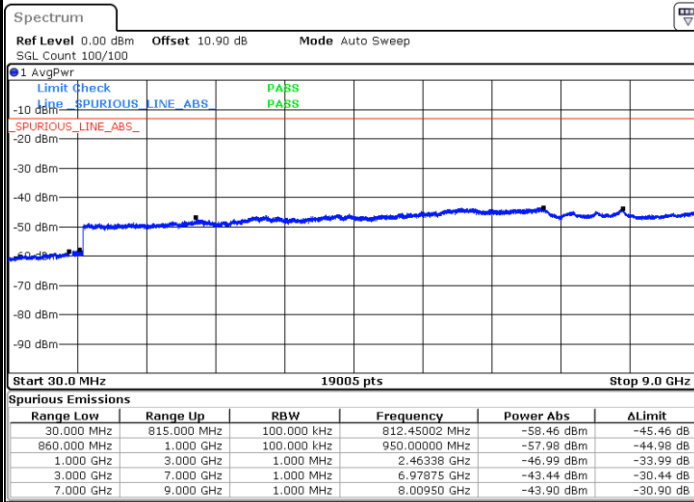


Date: 1.AUG.2020 21:44:17



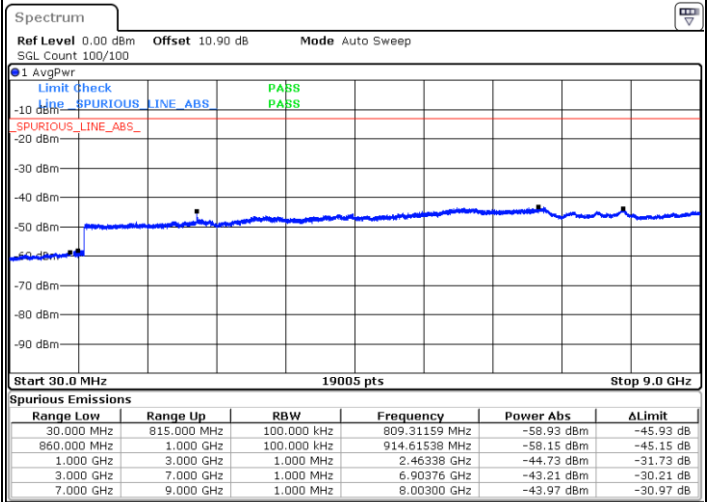
LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM



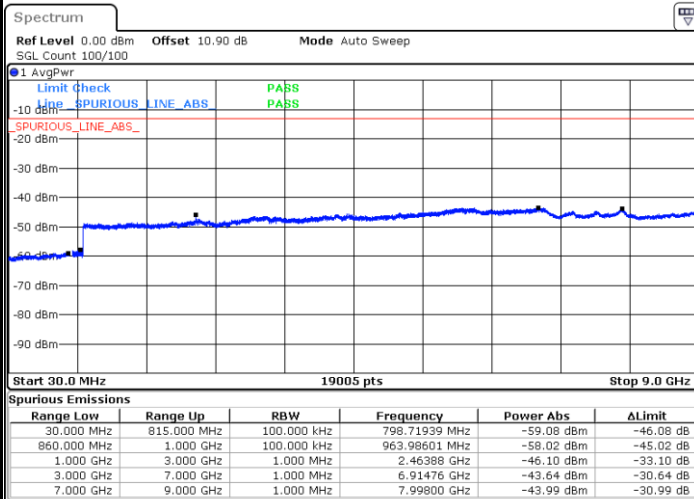
Date: 1.AUG.2020 20:33:53

Middle Channel / 64QAM



Date: 1.AUG.2020 20:35:02

Highest Channel / 64QAM

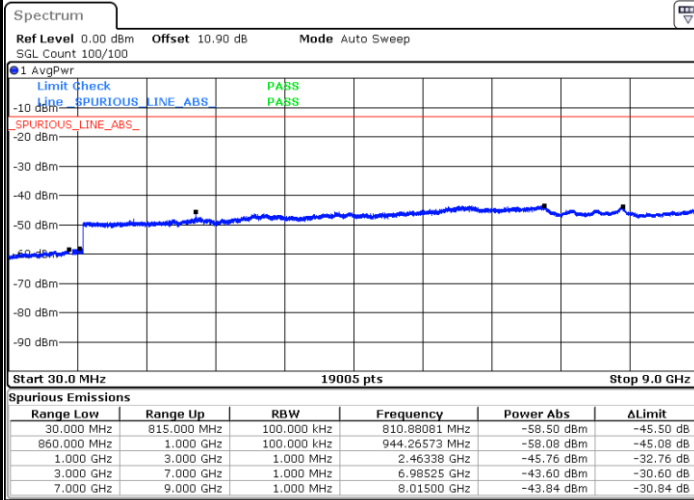


Date: 1.AUG.2020 20:36:11



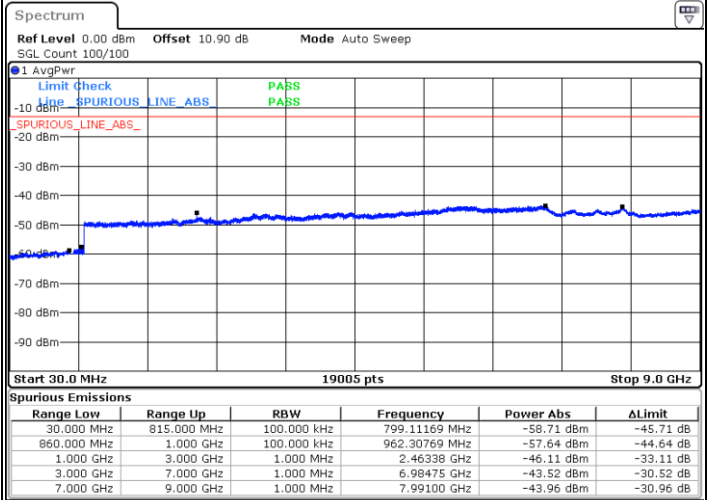
LTE Band 26 / 3MHz

Lowest Channel / 64QAM



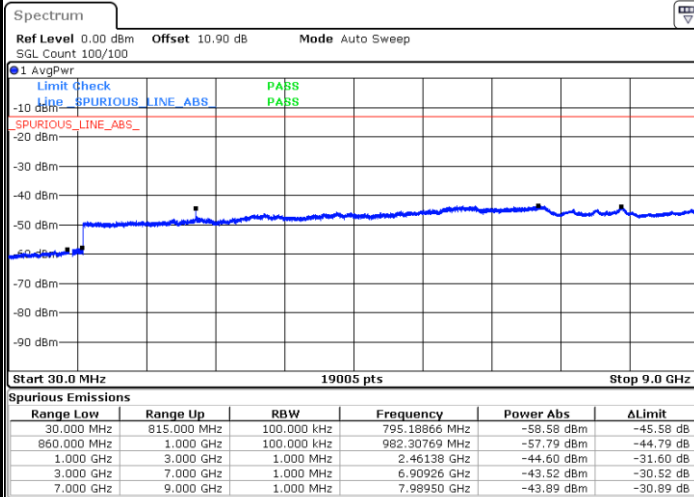
Date: 1.AUG.2020 20:37:20

Middle Channel / 64QAM



Date: 1.AUG.2020 20:38:29

Highest Channel / 64QAM

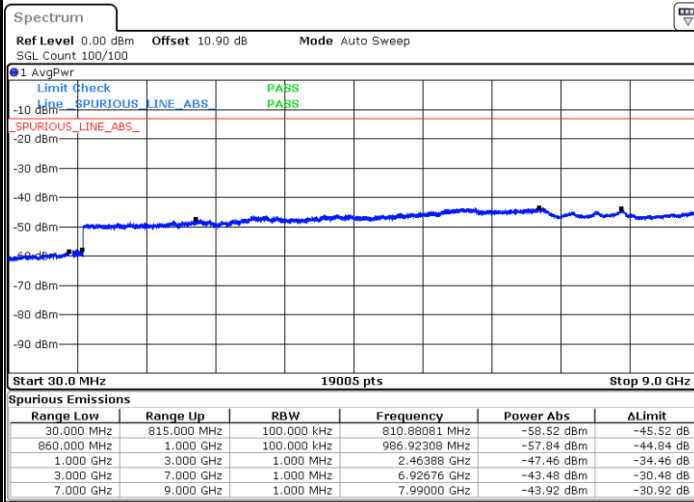


Date: 1.AUG.2020 20:39:37



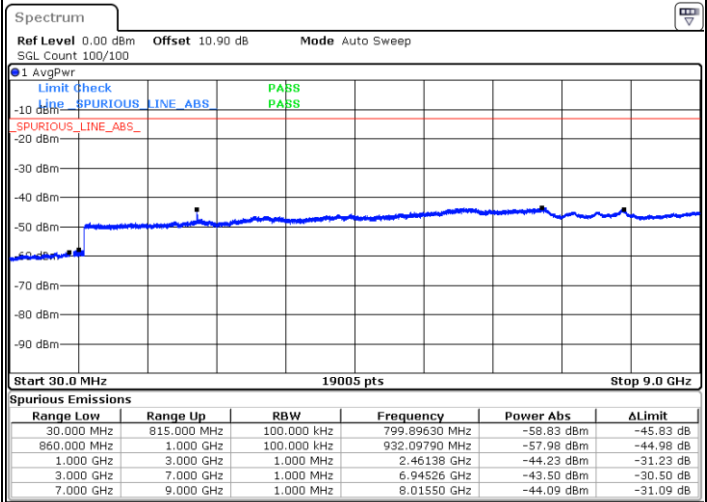
LTE Band 26 / 5MHz

Lowest Channel / 64QAM



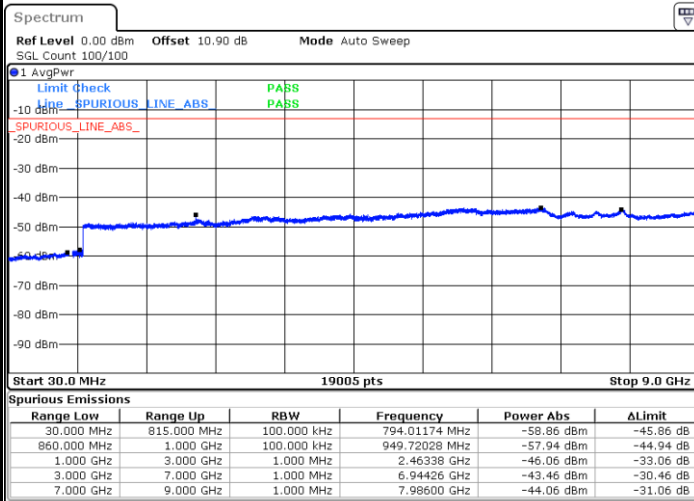
Date: 1.AUG.2020 21:02:01

Middle Channel / 64QAM



Date: 1.AUG.2020 21:03:10

Highest Channel / 64QAM

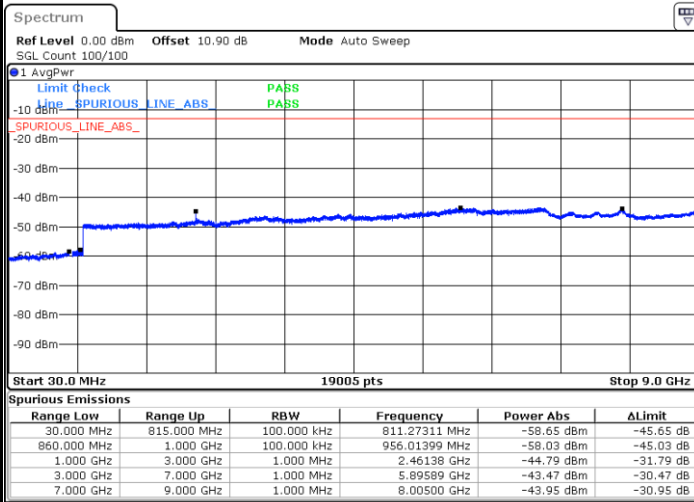


Date: 1.AUG.2020 21:05:48



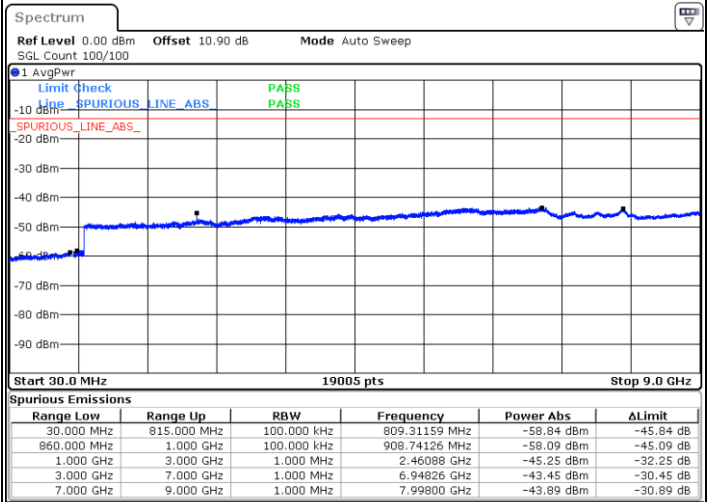
LTE Band 26 / 10MHz

Lowest Channel / 64QAM



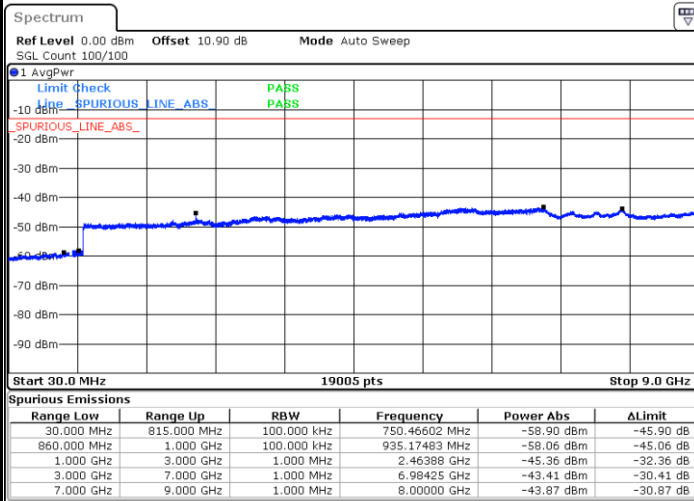
Date: 1.AUG.2020 21:21:19

Middle Channel / 64QAM



Date: 1.AUG.2020 21:22:28

Highest Channel / 64QAM

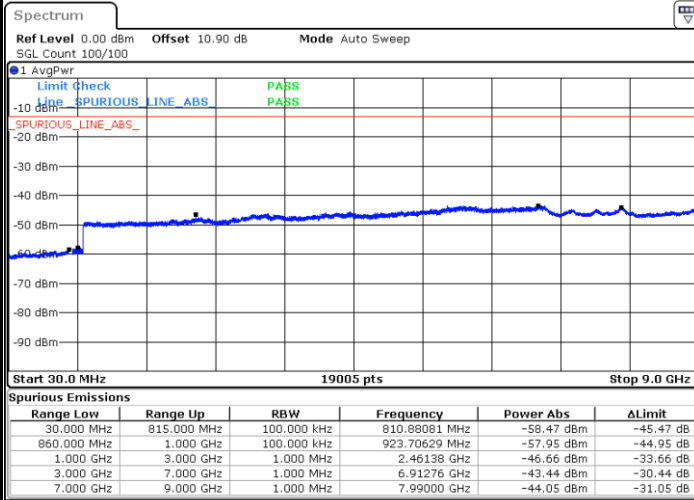


Date: 1.AUG.2020 21:25:07



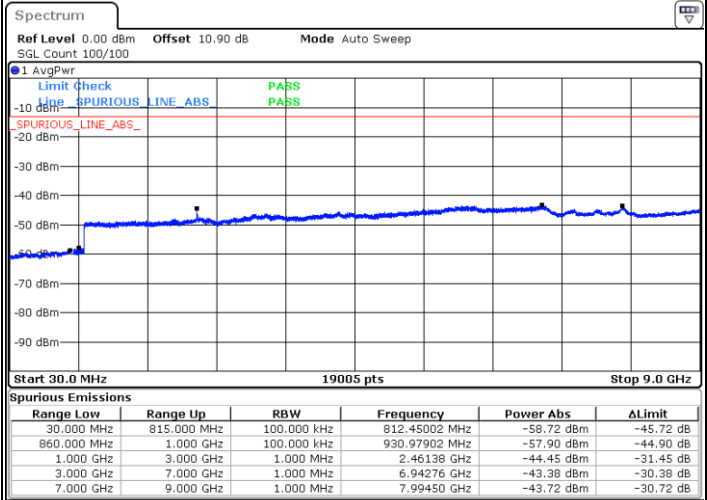
LTE Band 26 / 15MHz

Lowest Channel / 64QAM



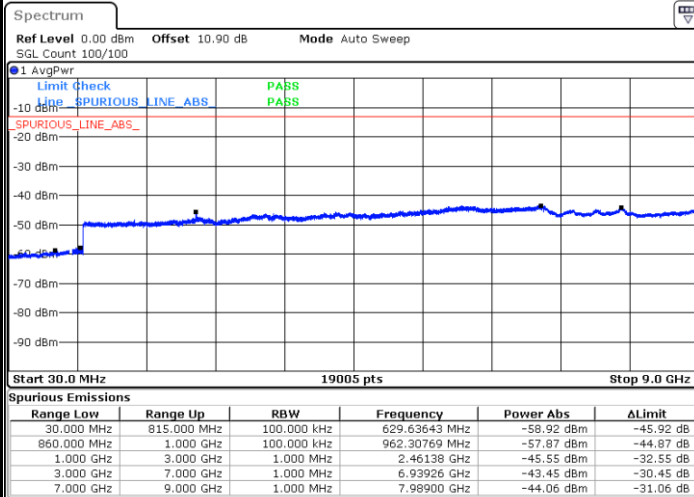
Date: 1.AUG.2020 21:27:43

Middle Channel / 64QAM



Date: 1.AUG.2020 21:28:51

Highest Channel / 64QAM

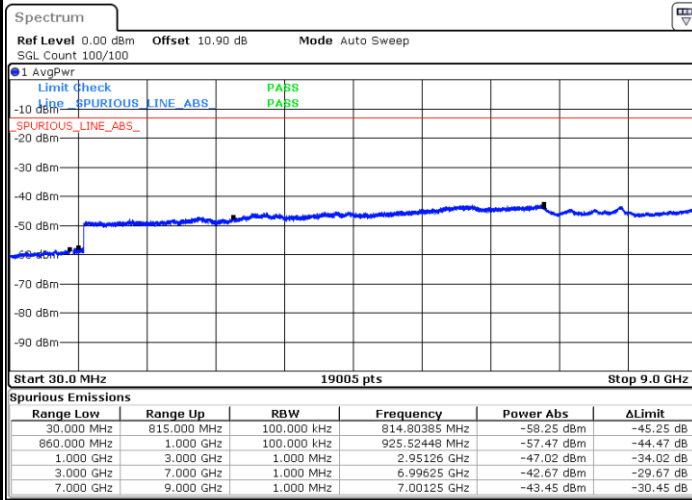


Date: 1.AUG.2020 21:31:30



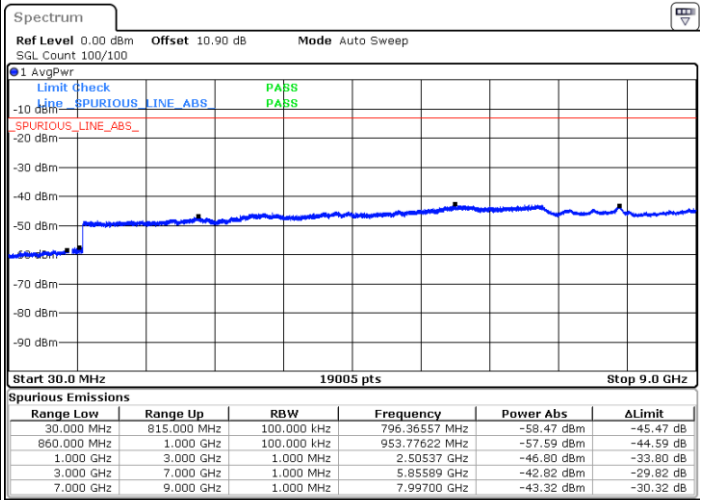
LTE Band 26 / 1.4MHz

Lowest Channel / 256QAM



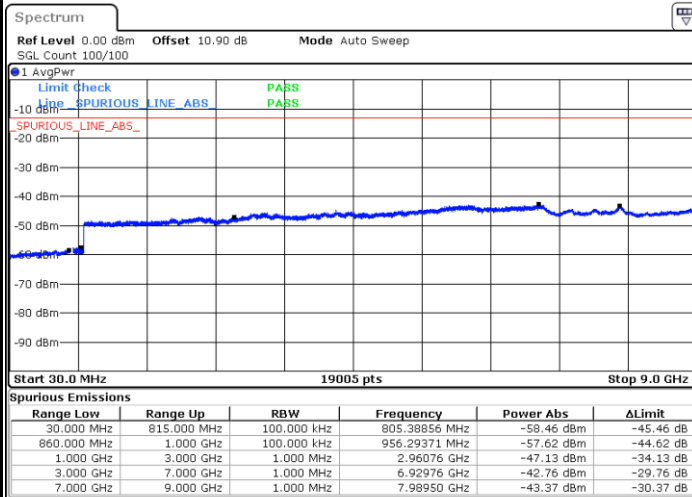
Date: 9.AUG.2020 15:49:09

Middle Channel / 256QAM



Date: 9.AUG.2020 15:46:42

Highest Channel / 256QAM

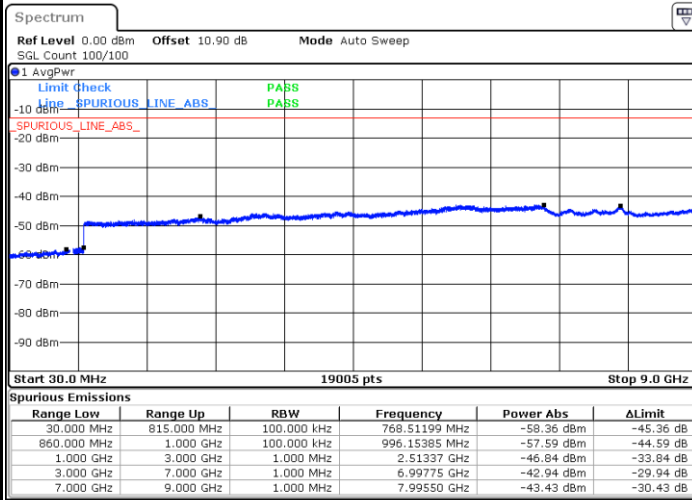


Date: 9.AUG.2020 15:52:58



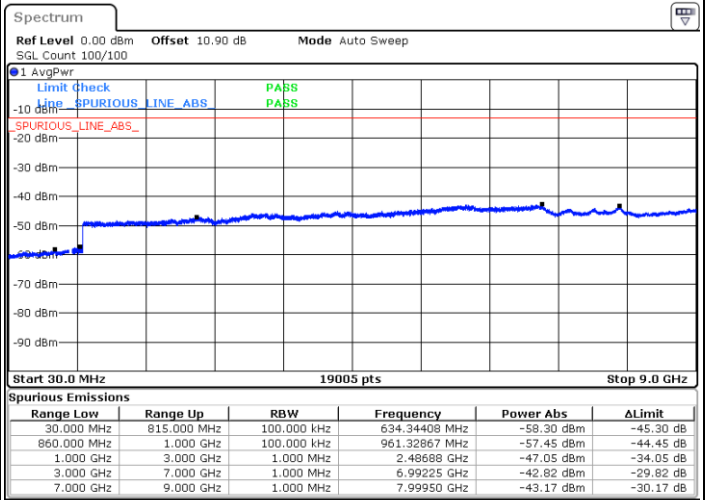
LTE Band 26 / 3MHz

Lowest Channel / 256QAM



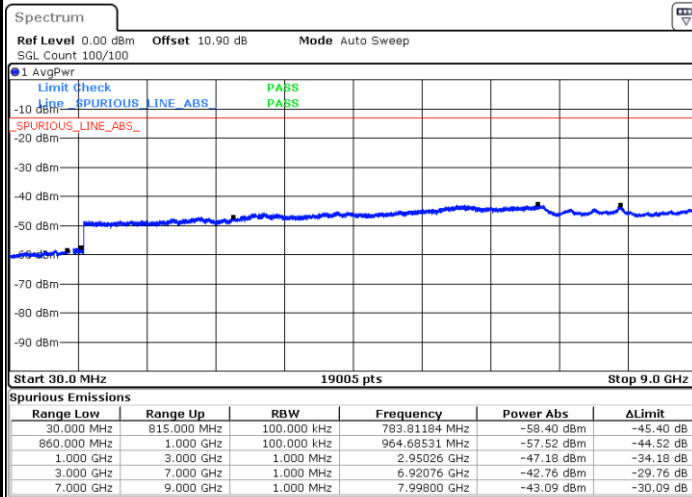
Date: 9.AUG.2020 15:57:47

Middle Channel / 256QAM



Date: 9.AUG.2020 15:55:45

Highest Channel / 256QAM

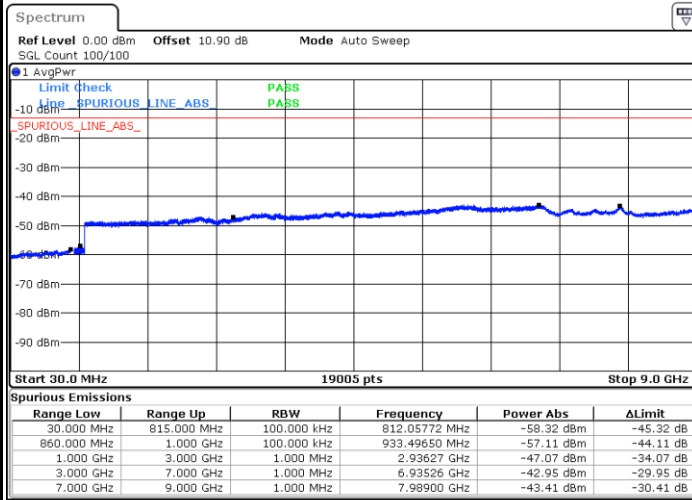


Date: 9.AUG.2020 16:00:46



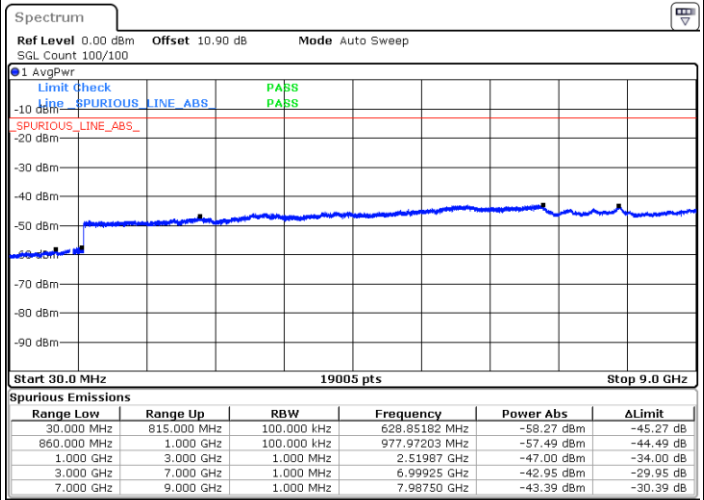
LTE Band 26 / 5MHz

Lowest Channel / 256QAM



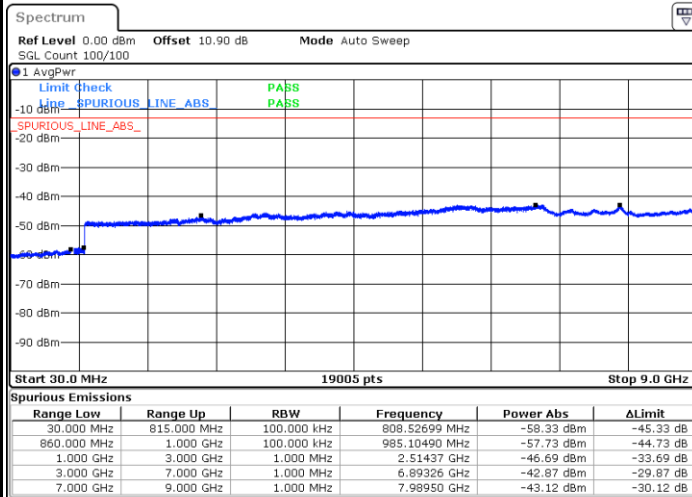
Date: 9.AUG.2020 16:05:05

Middle Channel / 256QAM



Date: 9.AUG.2020 16:03:04

Highest Channel / 256QAM

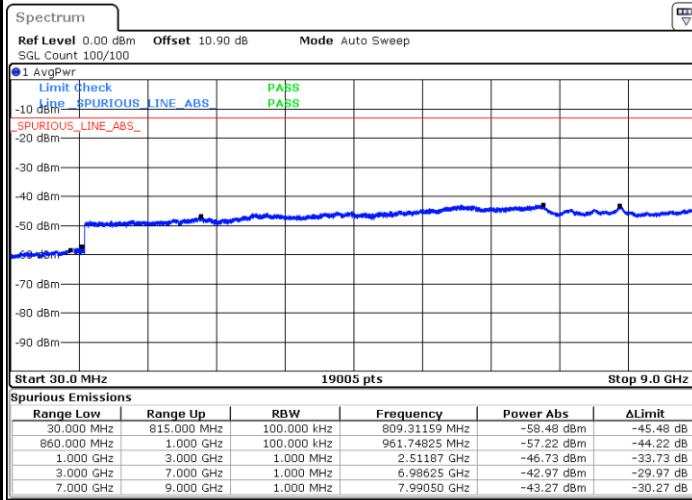


Date: 9.AUG.2020 16:08:29



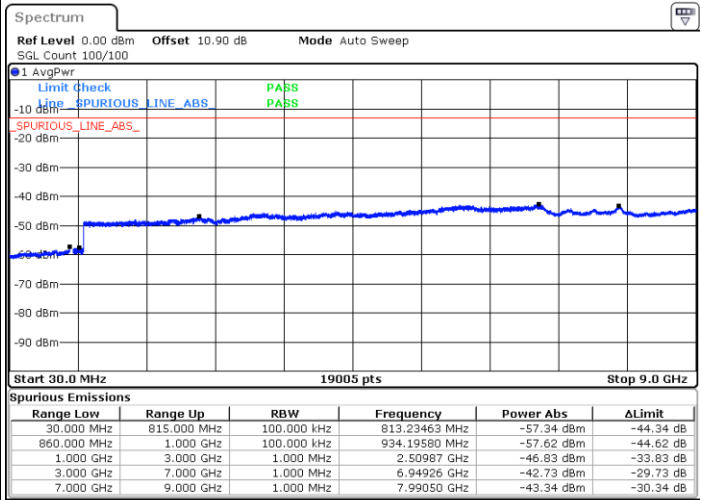
LTE Band 26 / 10MHz

Lowest Channel / 256QAM



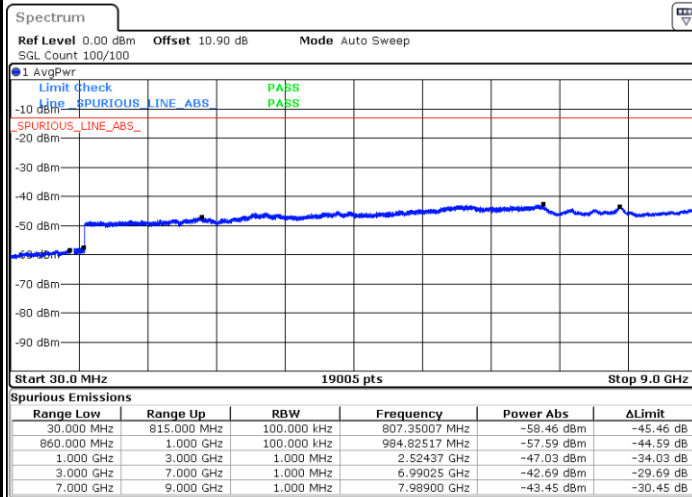
Date: 9.AUG.2020 16:12:52

Middle Channel / 256QAM



Date: 9.AUG.2020 16:10:12

Highest Channel / 256QAM

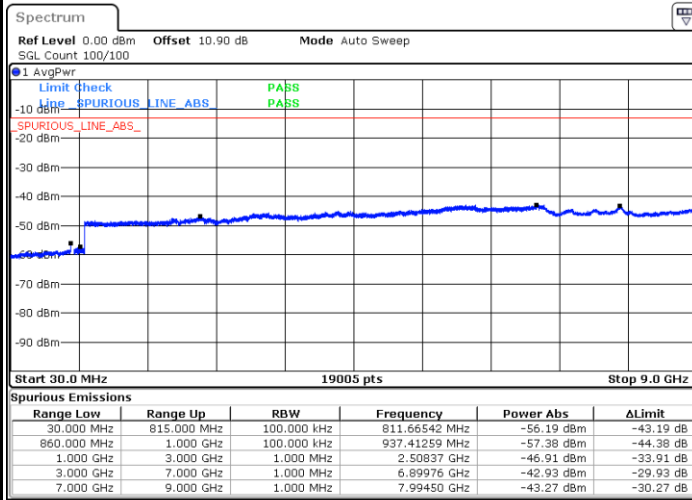


Date: 9.AUG.2020 16:15:19



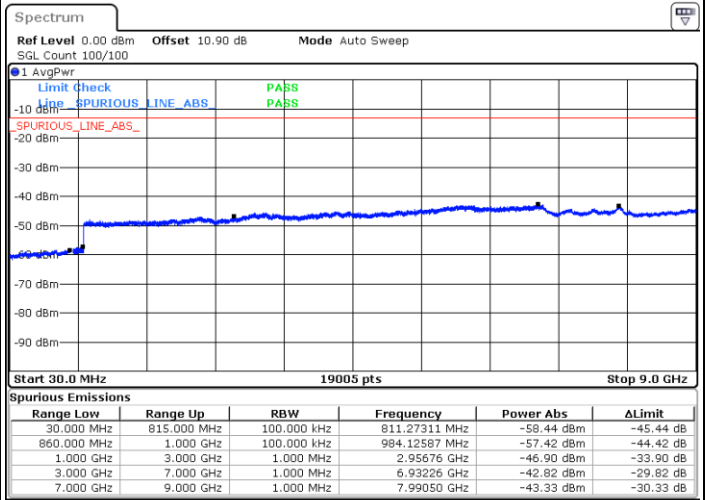
LTE Band 26 / 15MHz

Lowest Channel / 256QAM



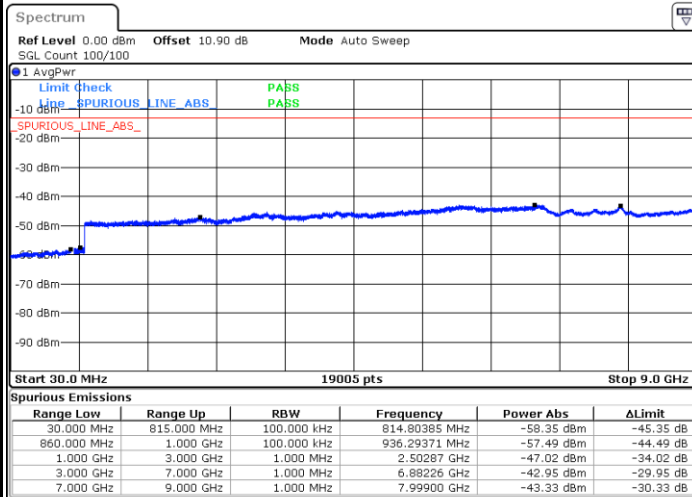
Date: 9.AUG.2020 16:19:57

Middle Channel / 256QAM



Date: 9.AUG.2020 16:17:21

Highest Channel / 256QAM



Date: 9.AUG.2020 16:22:31

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0170	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0137	
0	Normal Voltage	0.0051	
-10	Normal Voltage	0.0038	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0030	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 38

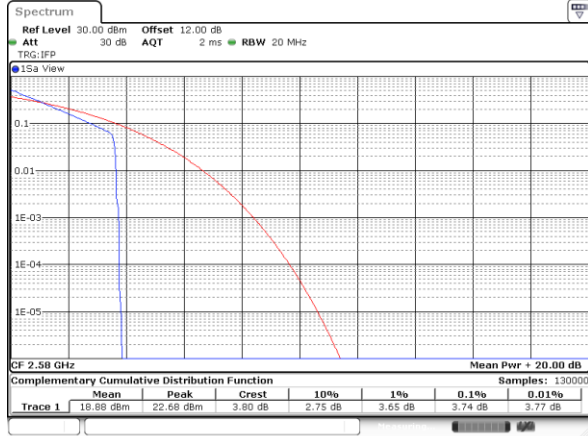
Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.74	5.01	5.68	5.94	PASS
Middle CH	3.71	5.01	5.45	5.94	
Highest CH	3.74	5.01	5.65	5.94	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM		256QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.64	6.49	7.62	6.78	PASS
Middle CH	6.67	6.46	7.22	6.70	
Highest CH	6.67	6.46	7.04	6.67	

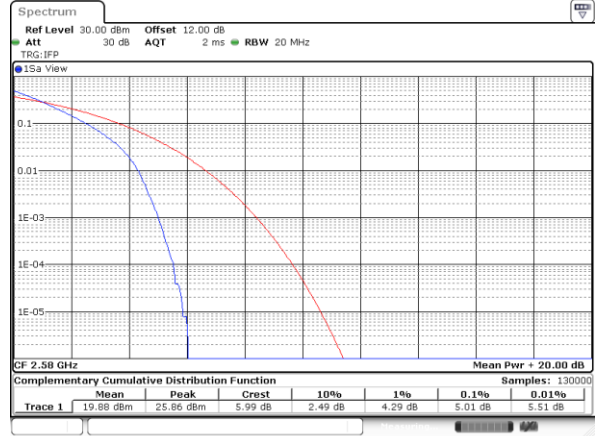


LTE Band 38 / 20MHz / QPSK

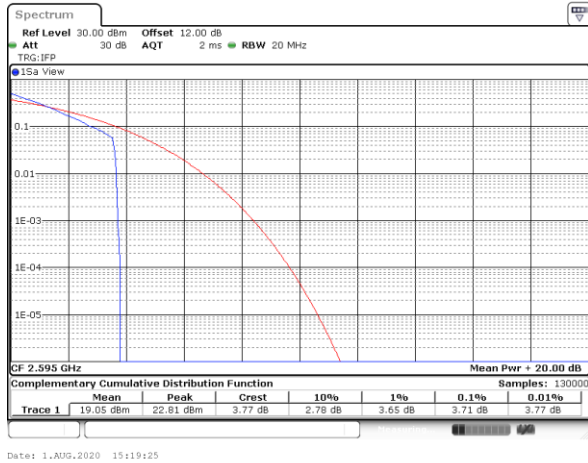
Lowest Channel / 1RB



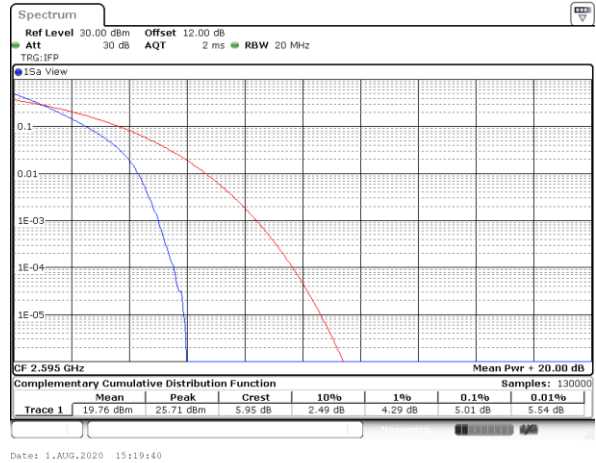
Lowest Channel / Full RB



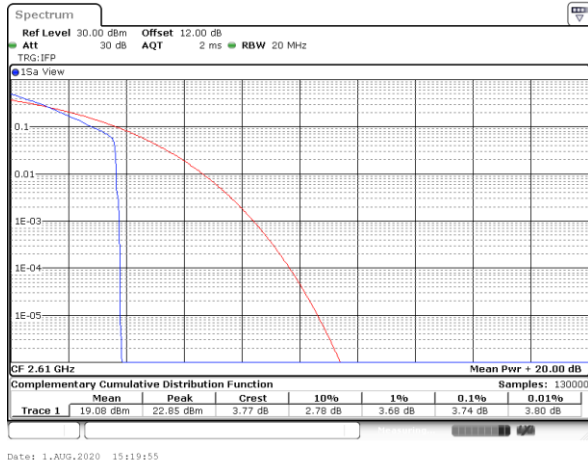
Middle Channel / 1RB



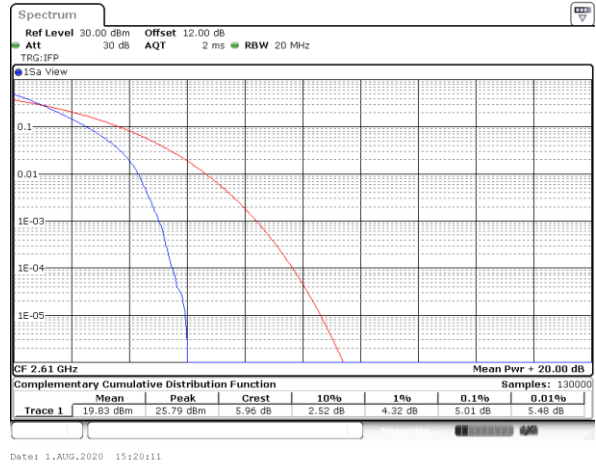
Middle Channel / Full RB



Highest Channel / 1RB



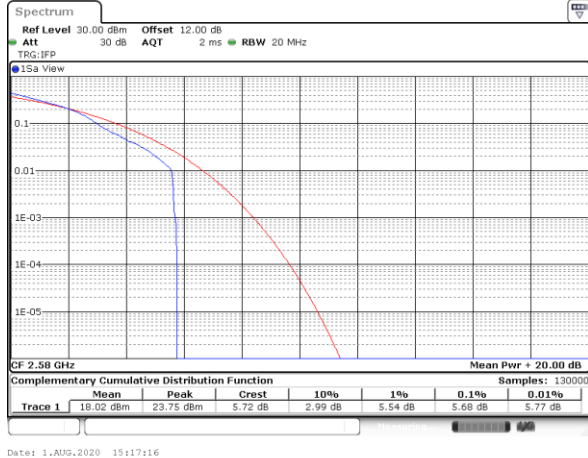
Highest Channel / Full RB



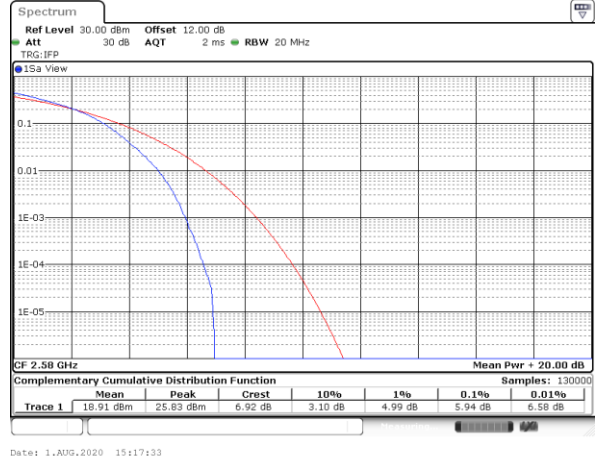


LTE Band 38 / 20MHz / 16QAM

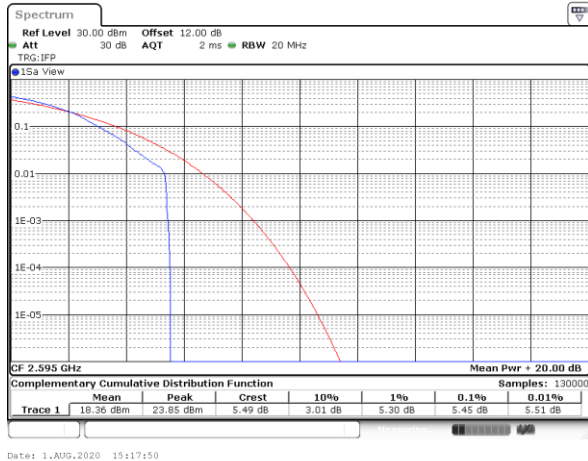
Lowest Channel / 1RB



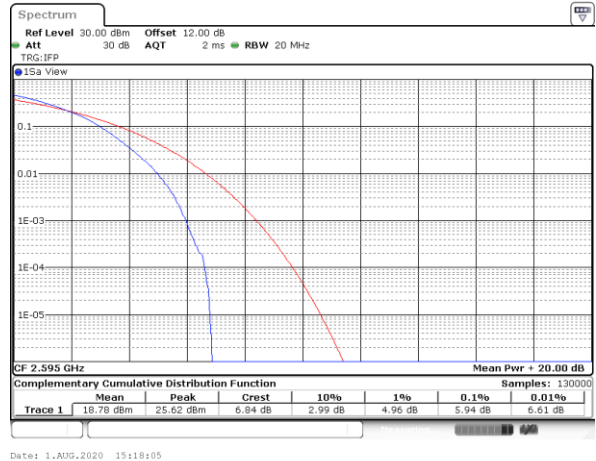
Lowest Channel / Full RB



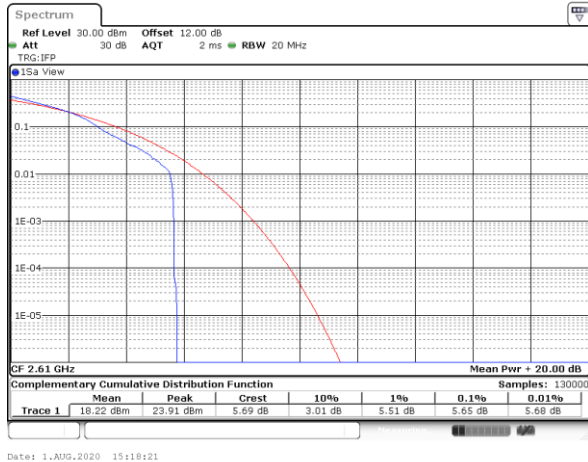
Middle Channel / 1RB



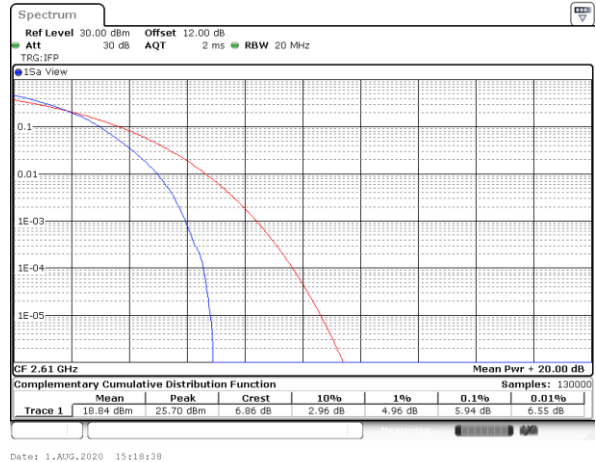
Middle Channel / Full RB



Highest Channel / 1RB



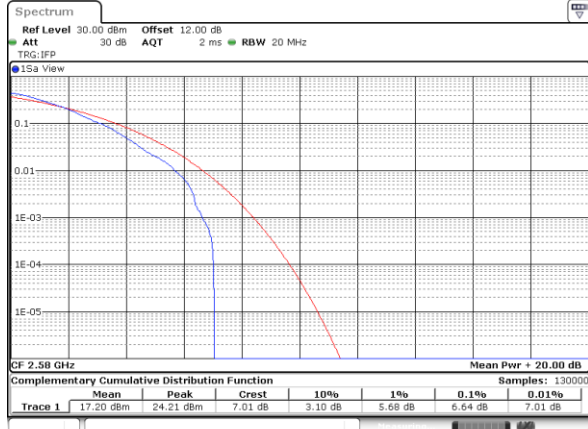
Highest Channel / Full RB



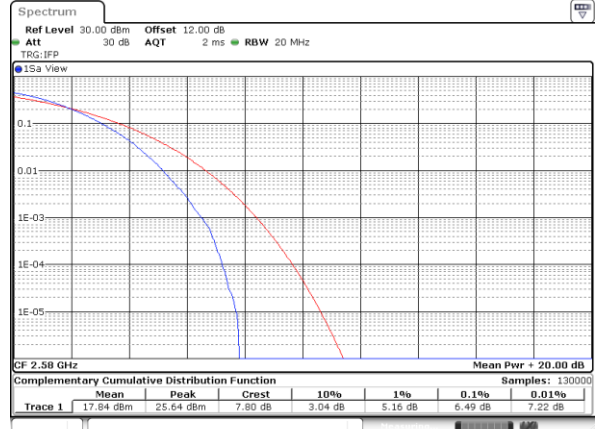


LTE Band 38 / 20MHz / 64QAM

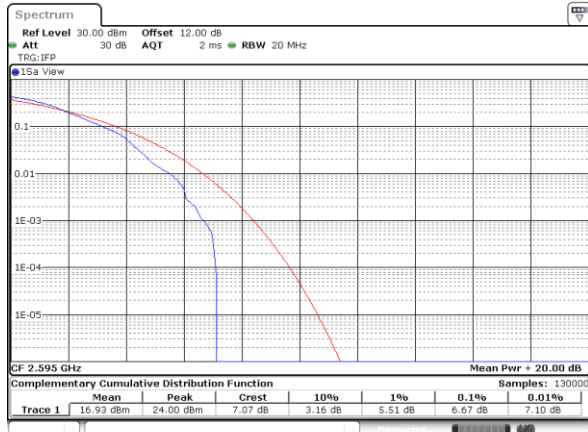
Lowest Channel / 1RB



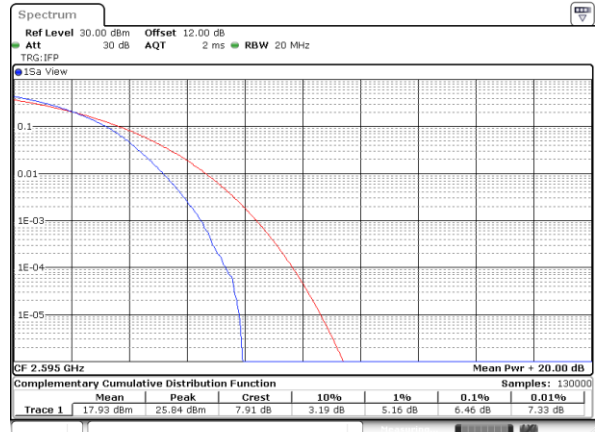
Lowest Channel / Full RB



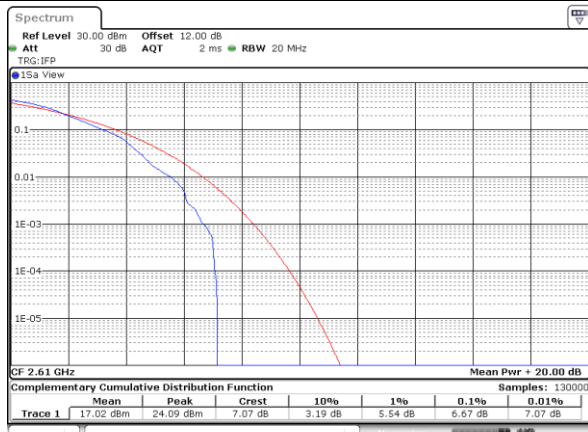
Middle Channel / 1RB



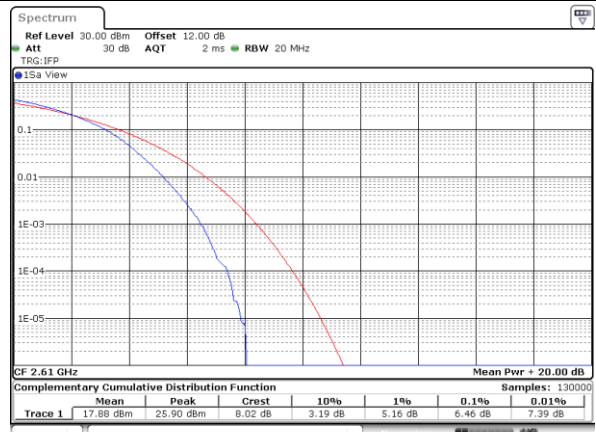
Middle Channel / Full RB



Highest Channel / 1RB



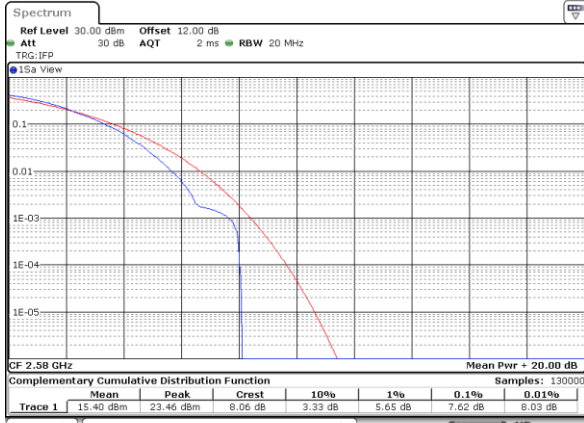
Highest Channel / Full RB



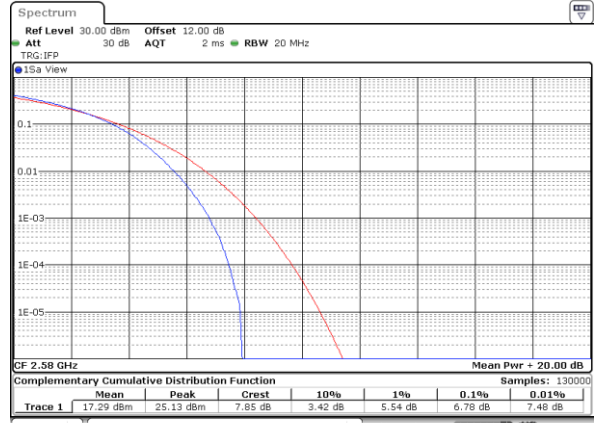


LTE Band 38 / 20MHz / 256QAM

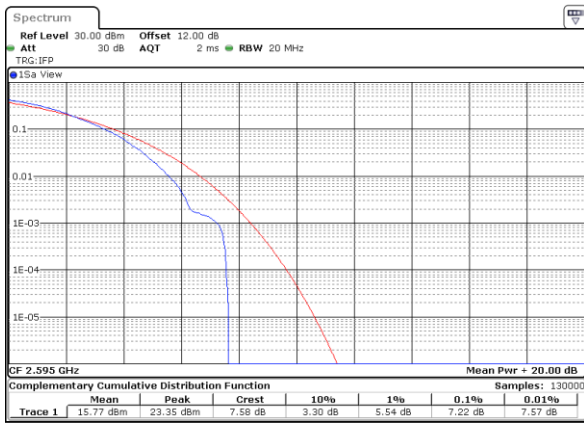
Lowest Channel / 1RB



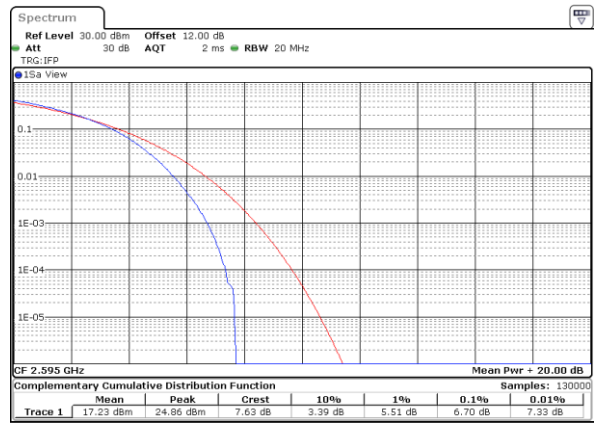
Lowest Channel / Full RB



Middle Channel / 1RB



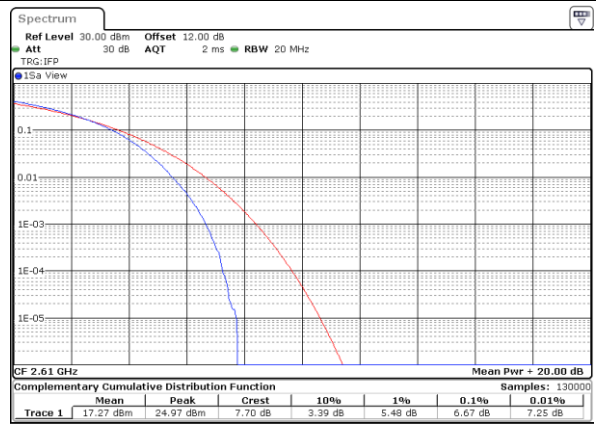
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



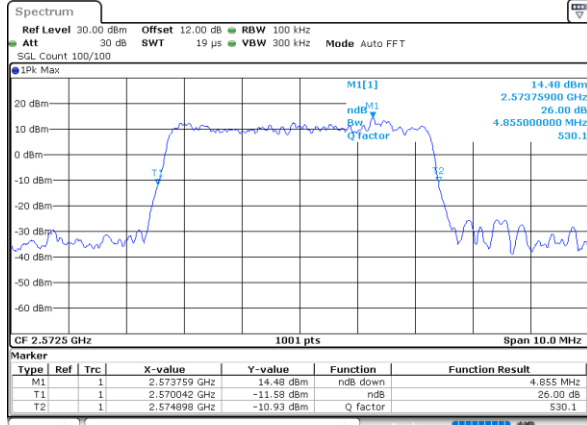
**26dB Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.86	4.86	9.61	9.73	14.27	14.33	18.90	18.66
Middle CH	-	-	-	-	4.80	4.79	9.65	9.89	14.21	14.42	19.06	18.78
Highest CH	-	-	-	-	4.89	4.93	9.63	9.63	14.24	14.21	18.66	18.98
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	-	-	-	-	4.70	4.86	9.89	9.59	14.39	14.21	18.62	18.70
Middle CH	-	-	-	-	4.81	4.78	9.63	9.81	14.27	14.21	18.74	18.98
Highest CH	-	-	-	-	4.75	4.88	9.89	9.65	14.33	14.15	18.82	18.70



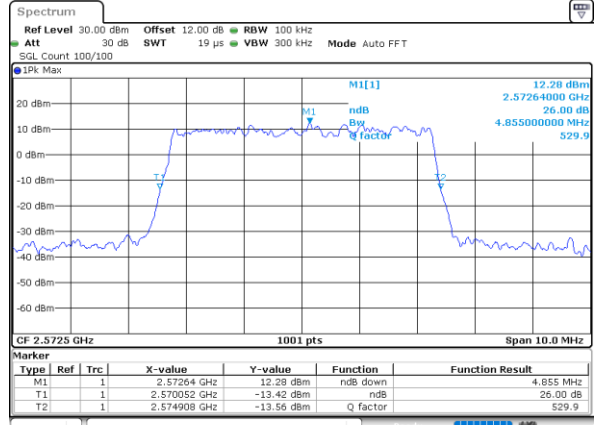
LTE Band 38

Lowest Channel / 5MHz / QPSK



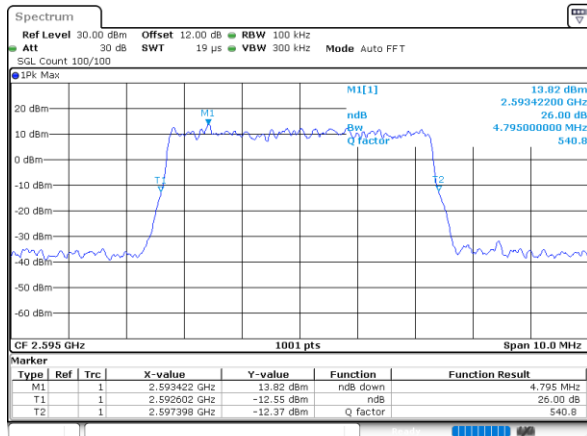
Date: 1.AUG.2020 14:25:19

Lowest Channel / 5MHz / 16QAM



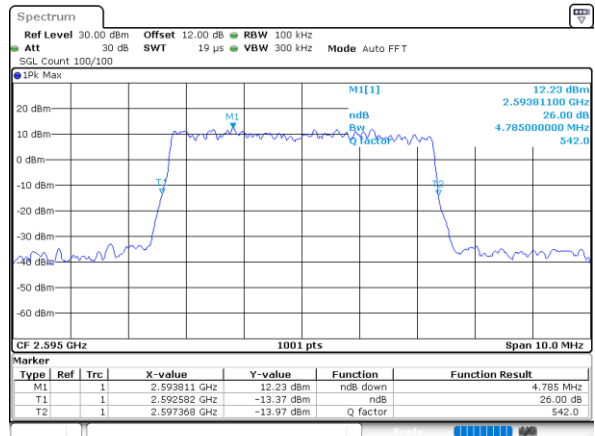
Date: 1.AUG.2020 14:25:51

Middle Channel / 5MHz / QPSK



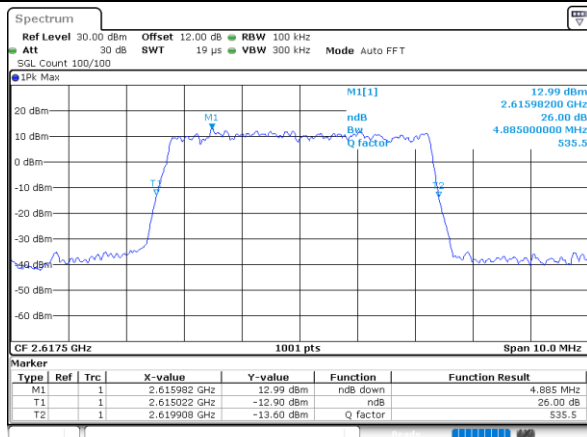
Date: 1.AUG.2020 14:26:25

Middle Channel / 5MHz / 16QAM



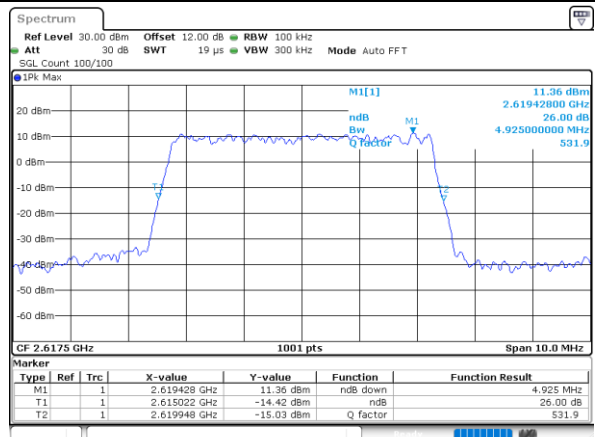
Date: 1.AUG.2020 14:26:36

Highest Channel / 5MHz / QPSK



Date: 1.AUG.2020 14:27:11

Highest Channel / 5MHz / 16QAM

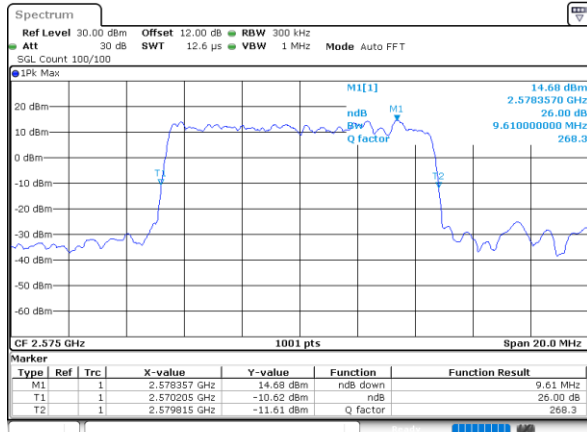


Date: 1.AUG.2020 14:27:23



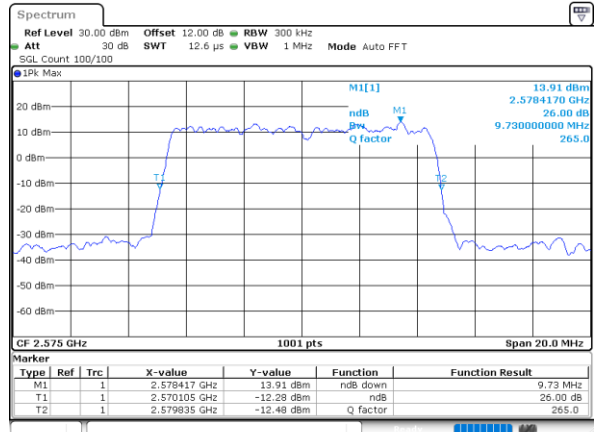
LTE Band 38

Lowest Channel / 10MHz / QPSK



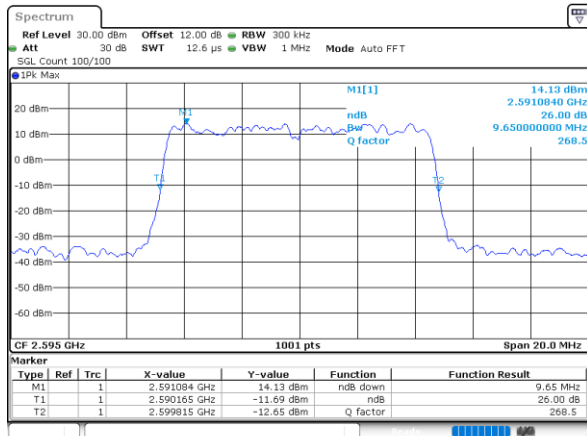
Date: 1.AUG.2020 14:27:59

Lowest Channel / 10MHz / 16QAM



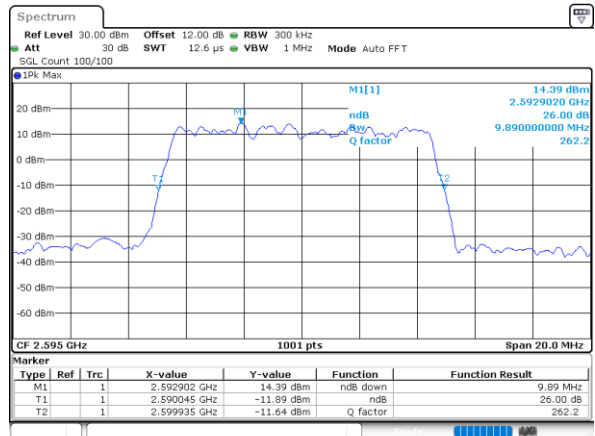
Date: 1.AUG.2020 14:28:10

Middle Channel / 10MHz / QPSK



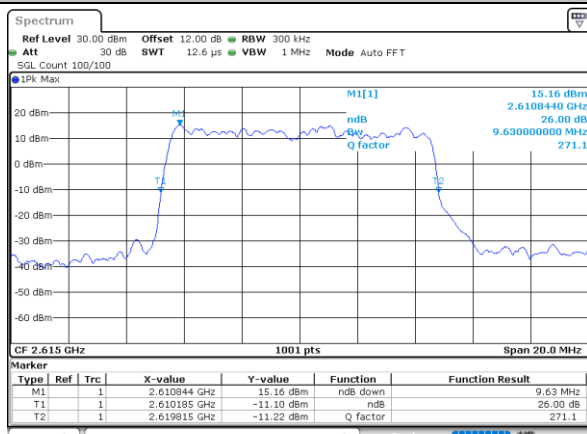
Date: 1.AUG.2020 14:28:44

Middle Channel / 10MHz / 16QAM



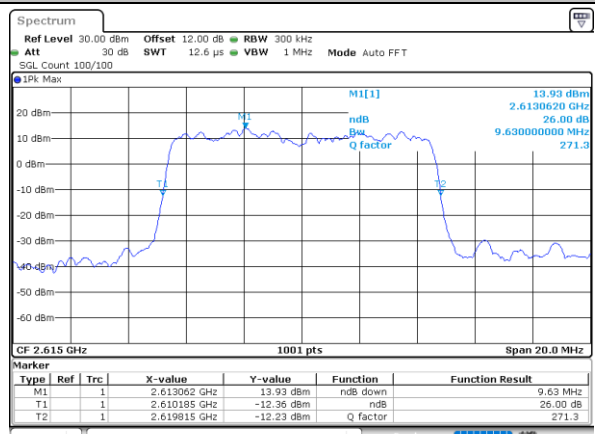
Date: 1.AUG.2020 14:28:56

Highest Channel / 10MHz / QPSK



Date: 1.AUG.2020 14:29:31

Highest Channel / 10MHz / 16QAM

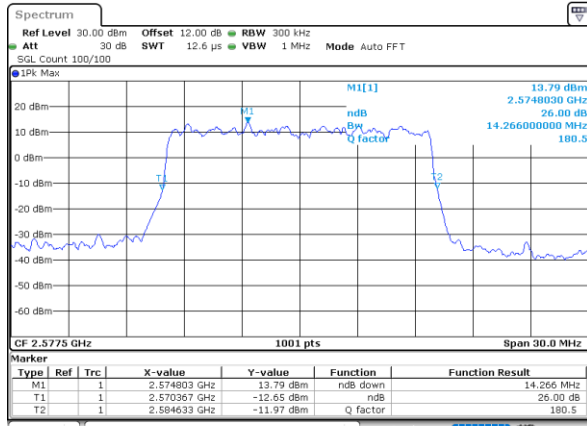


Date: 1.AUG.2020 14:29:43



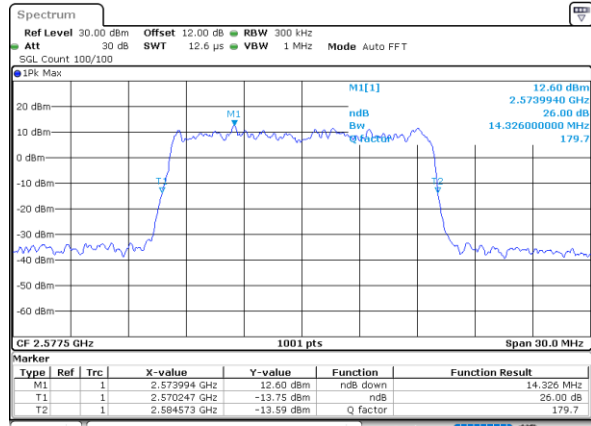
LTE Band 38

Lowest Channel / 15MHz / QPSK



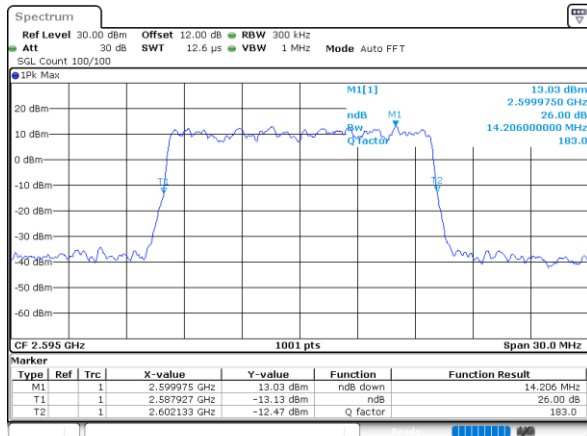
Date: 1.AUG.2020 14:30:19

Lowest Channel / 15MHz / 16QAM



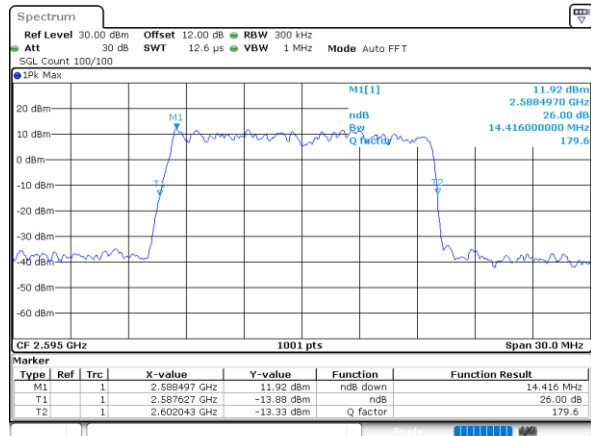
Date: 1.AUG.2020 14:30:30

Middle Channel / 15MHz / QPSK



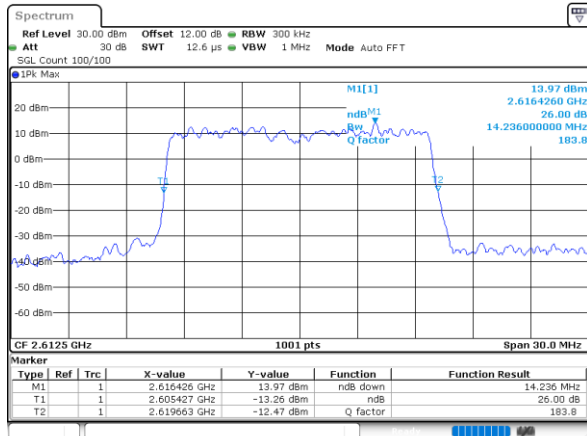
Date: 1.AUG.2020 14:31:05

Middle Channel / 15MHz / 16QAM



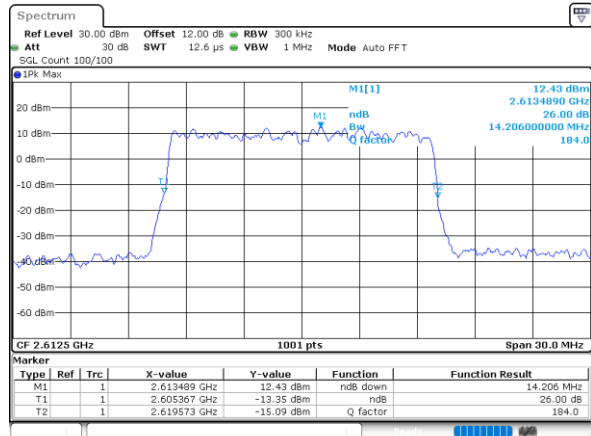
Date: 1.AUG.2020 14:31:16

Highest Channel / 15MHz / QPSK



Date: 1.AUG.2020 14:31:51

Highest Channel / 15MHz / 16QAM

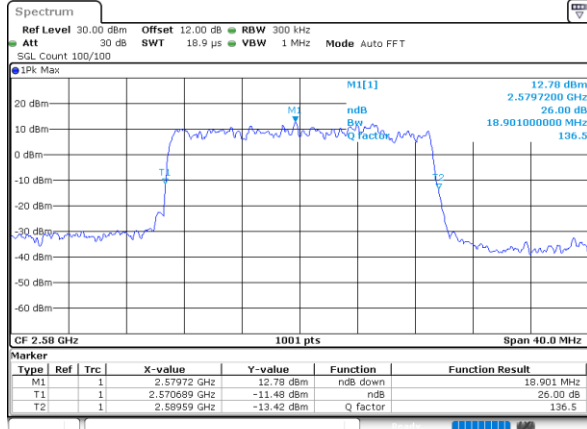


Date: 1.AUG.2020 14:32:03

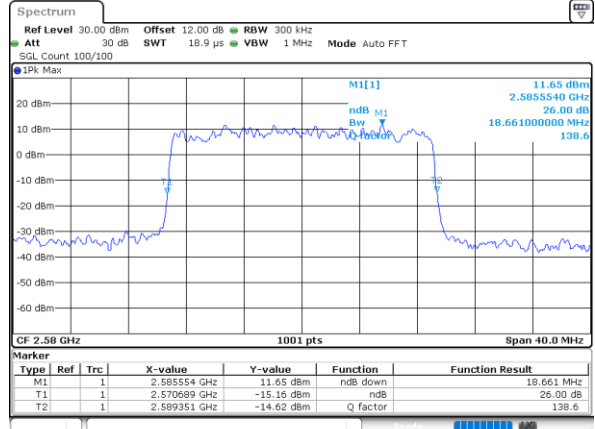


LTE Band 38

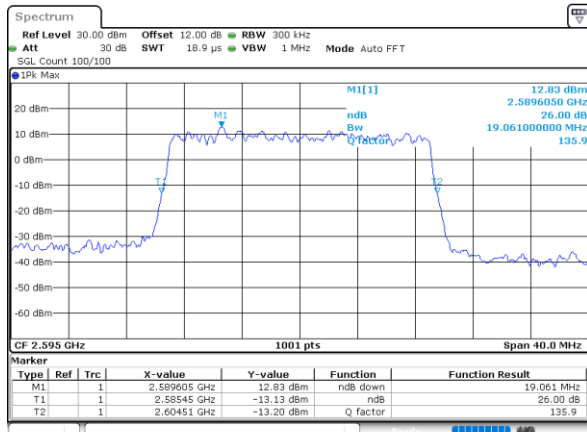
Lowest Channel / 20MHz / QPSK



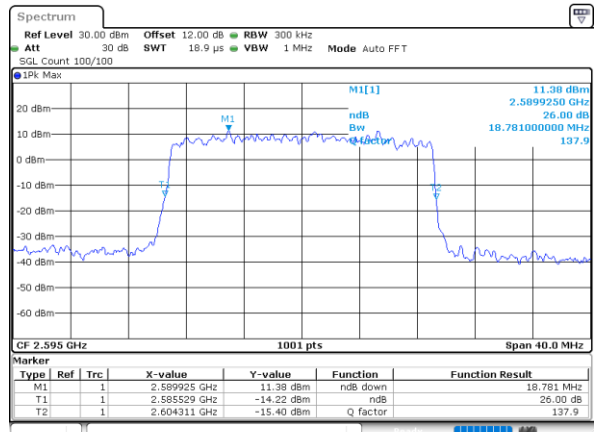
Lowest Channel / 20MHz / 16QAM



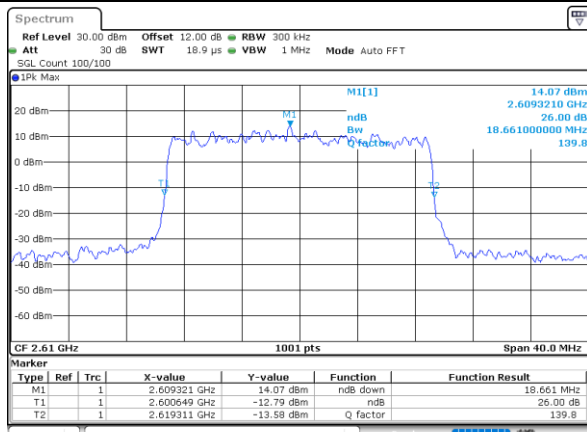
Middle Channel / 20MHz / QPSK



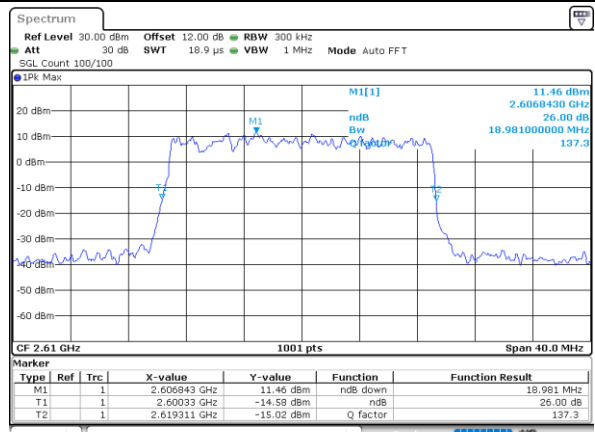
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



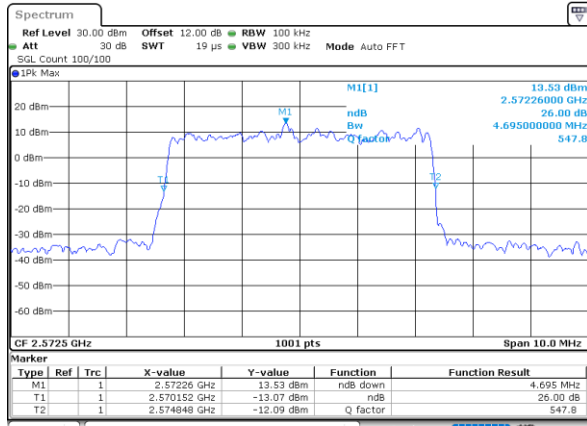
Highest Channel / 20MHz / 16QAM



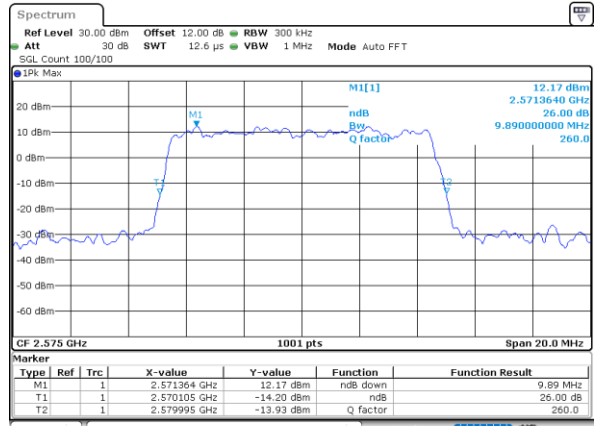


LTE Band 38

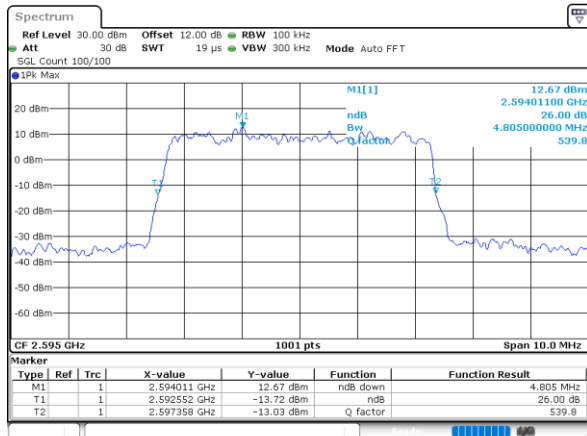
Lowest Channel / 5MHz / 64QAM



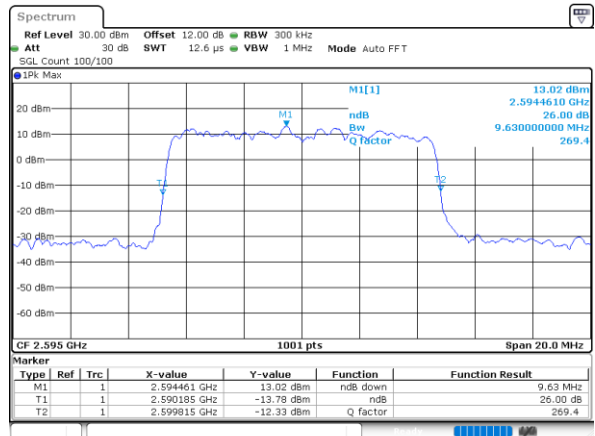
Lowest Channel / 10MHz / 64QAM



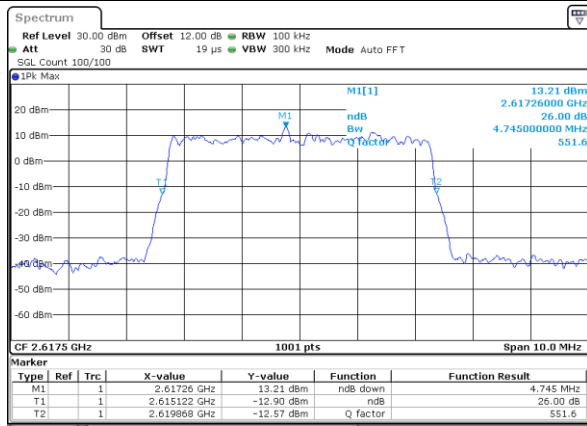
Middle Channel / 5MHz / 64QAM



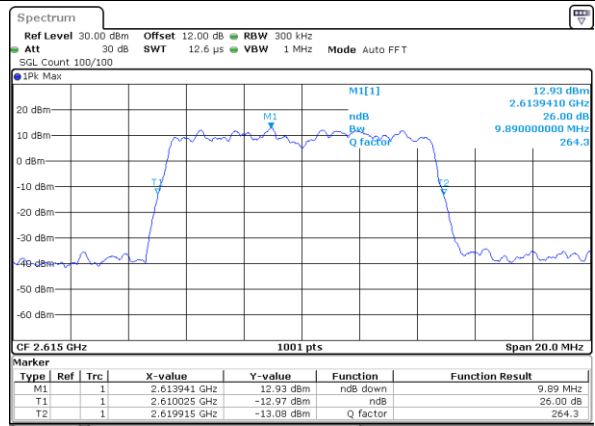
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



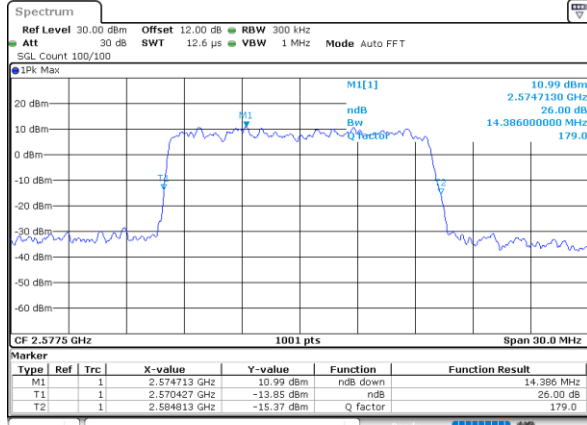
Highest Channel / 10MHz / 64QAM



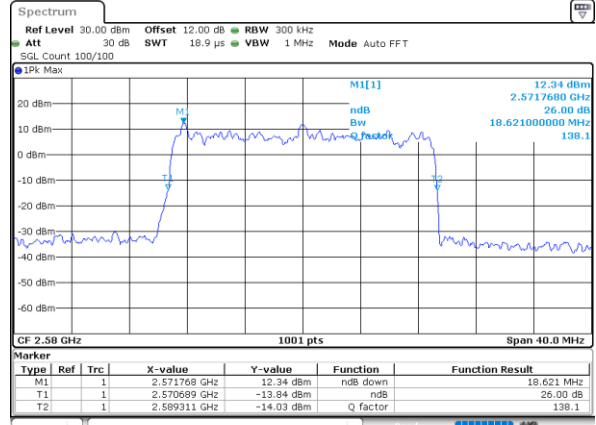


LTE Band 38

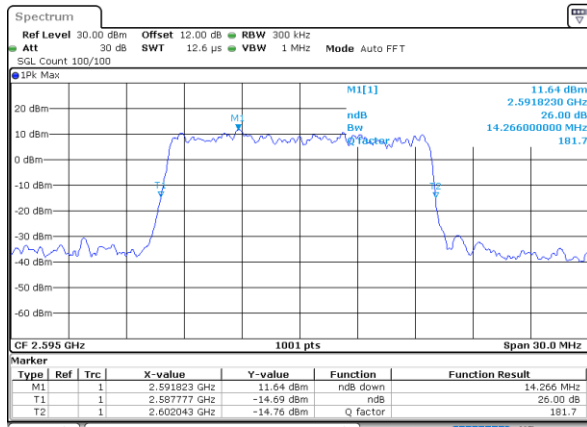
Lowest Channel / 15MHz / 64QAM



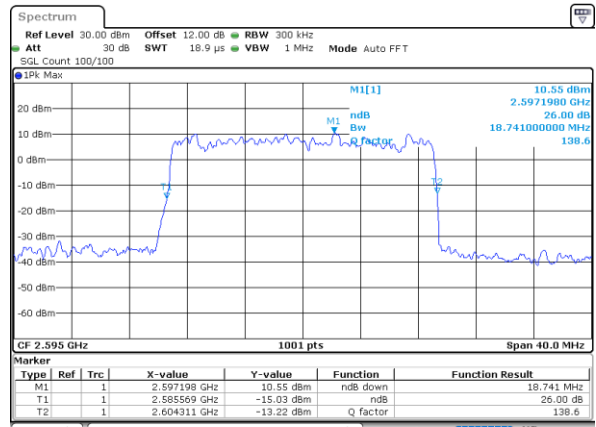
Lowest Channel / 20MHz / 64QAM



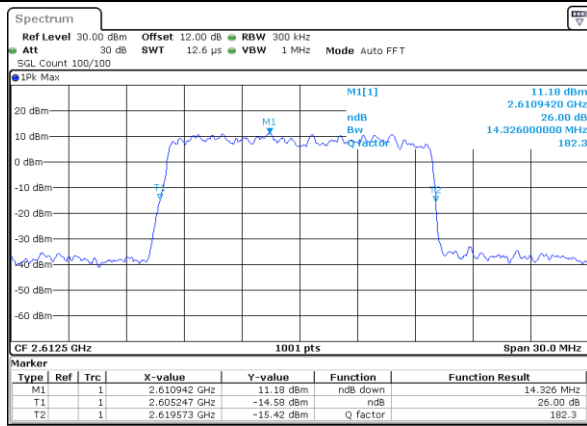
Middle Channel / 15MHz / 64QAM



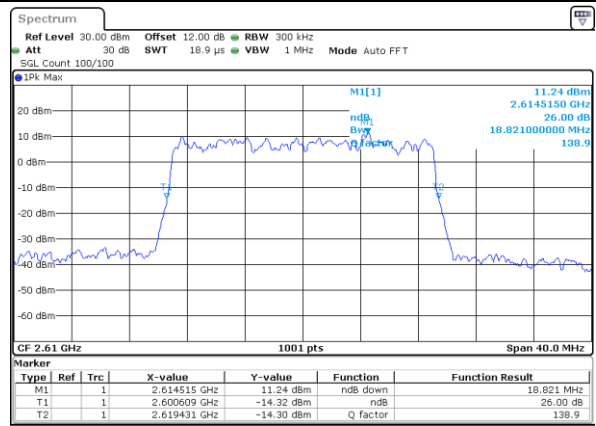
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



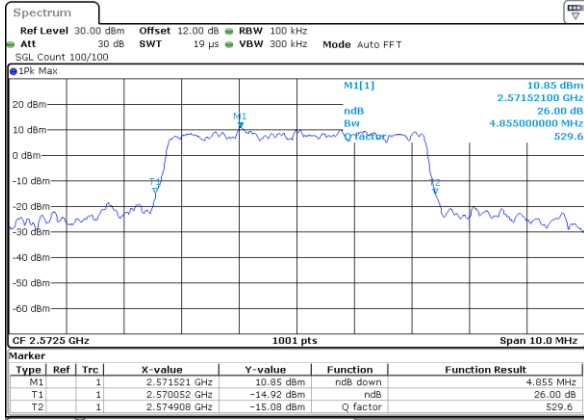
Highest Channel / 20MHz / 64QAM





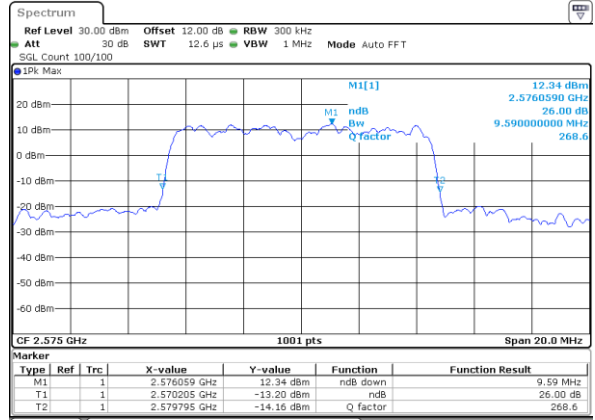
LTE Band 38

Lowest Channel / 5MHz / 256QAM



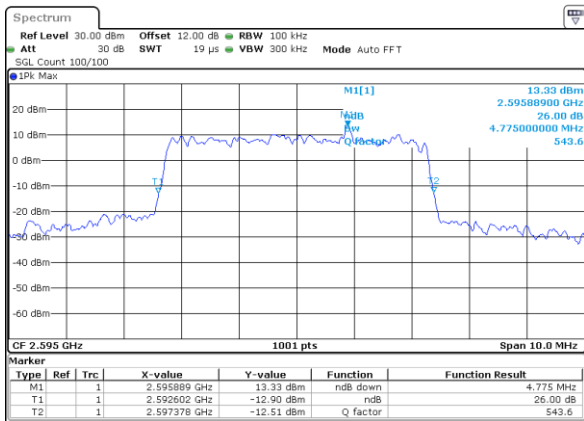
Date: 9.AUG.2020 12:57:46

Lowest Channel / 10MHz / 256QAM



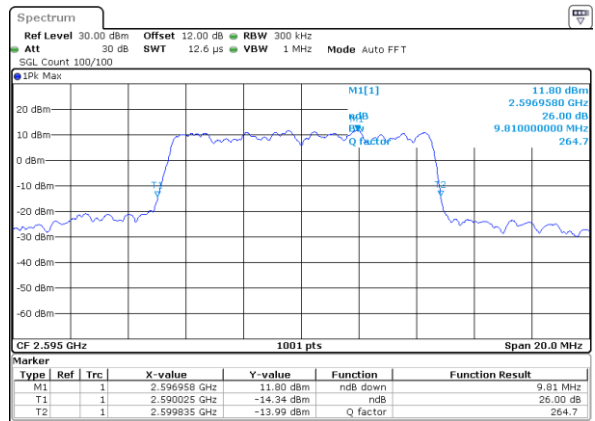
Date: 9.AUG.2020 13:04:19

Middle Channel / 5MHz / 256QAM



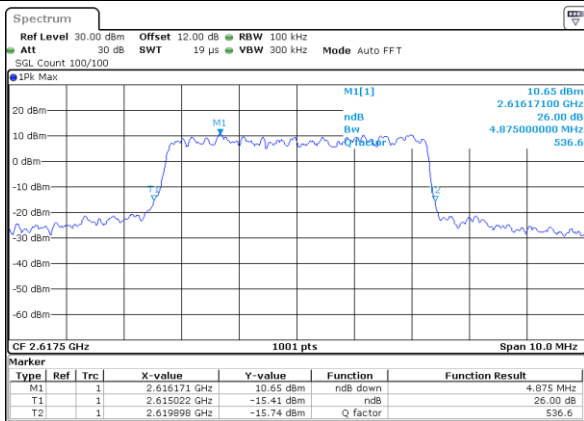
Date: 9.AUG.2020 12:55:32

Middle Channel / 10MHz / 256QAM



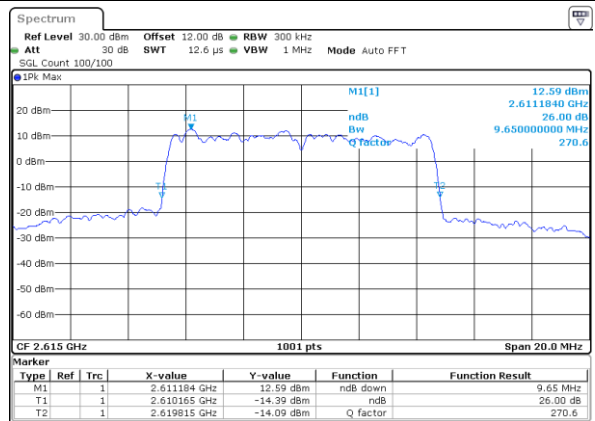
Date: 9.AUG.2020 13:02:39

Highest Channel / 5MHz / 256QAM



Date: 9.AUG.2020 13:00:00

Highest Channel / 10MHz / 256QAM

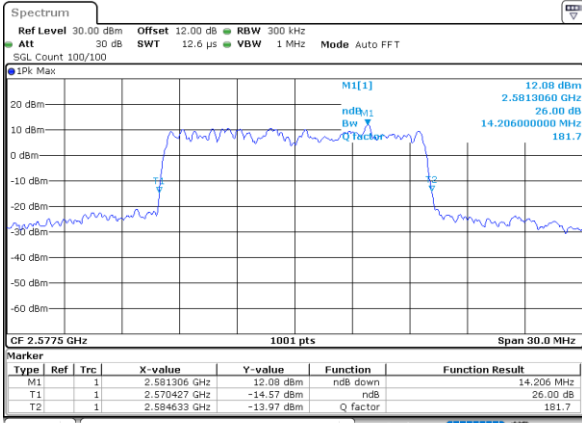


Date: 9.AUG.2020 13:06:32



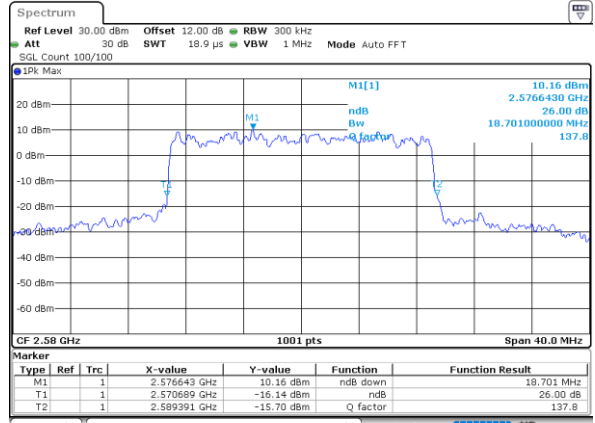
LTE Band 38

Lowest Channel / 15MHz / 256QAM



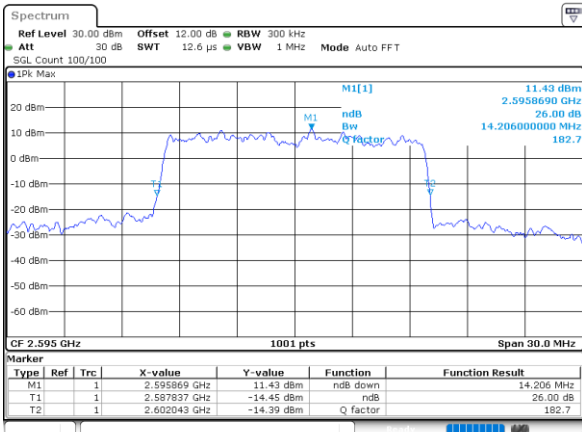
Date: 9.AUG.2020 13:11:10

Lowest Channel / 20MHz / 256QAM



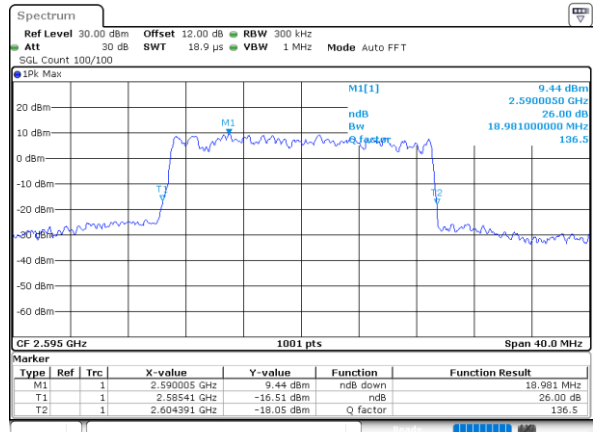
Date: 9.AUG.2020 13:18:17

Middle Channel / 15MHz / 256QAM



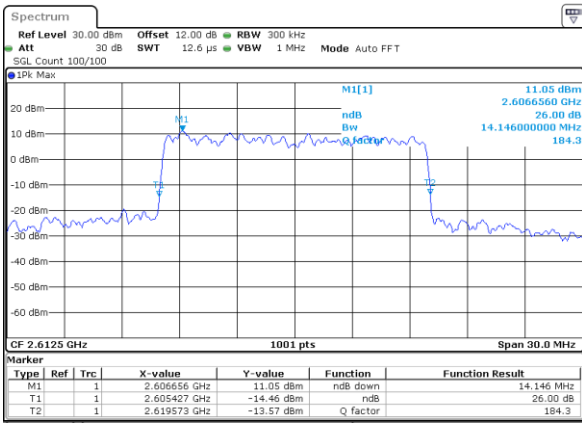
Date: 9.AUG.2020 13:09:13

Middle Channel / 20MHz / 256QAM



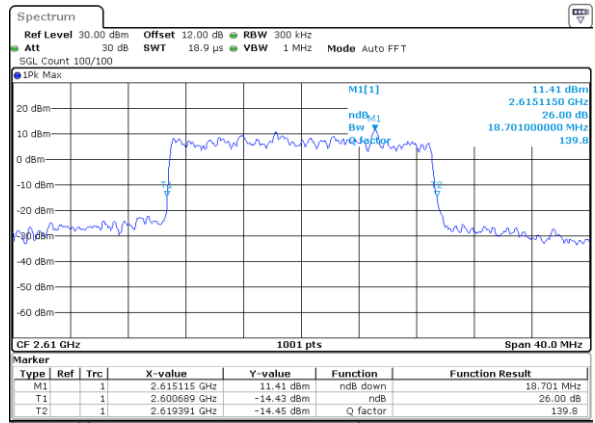
Date: 9.AUG.2020 13:16:05

Highest Channel / 15MHz / 256QAM



Date: 9.AUG.2020 13:13:41

Highest Channel / 20MHz / 256QAM



Date: 9.AUG.2020 13:22:36

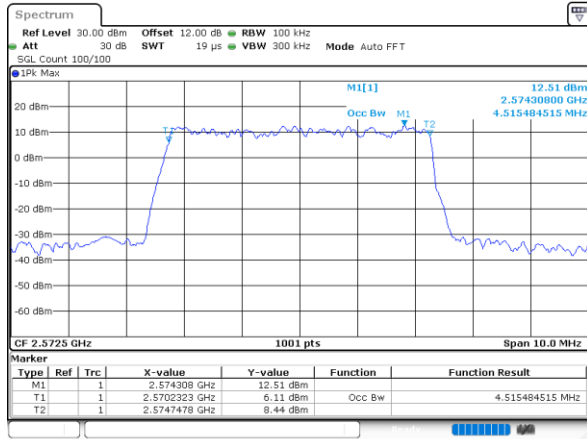
**Occupied Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.52	4.49	9.03	9.01	13.37	13.43	17.90	17.90
Middle CH	-	-	-	-	4.47	4.48	9.01	9.09	13.43	13.43	17.90	17.82
Highest CH	-	-	-	-	4.49	4.47	9.05	8.97	13.31	13.43	17.86	17.82
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	-	-	-	-	4.51	4.48	8.99	9.03	13.49	13.43	17.86	17.86
Middle CH	-	-	-	-	4.52	4.46	9.01	9.01	13.40	13.52	18.02	17.74
Highest CH	-	-	-	-	4.46	4.49	9.01	9.03	13.49	13.40	17.78	17.90

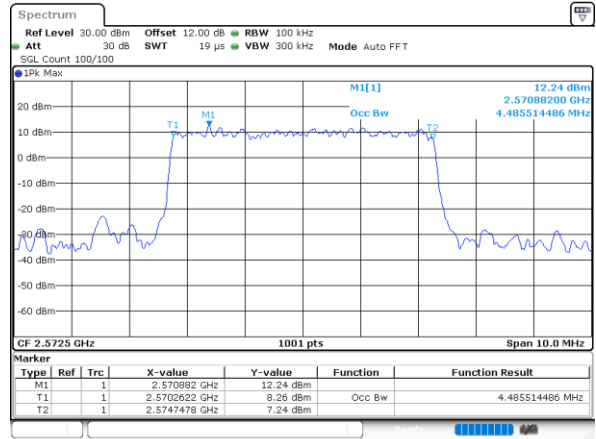


LTE Band 38

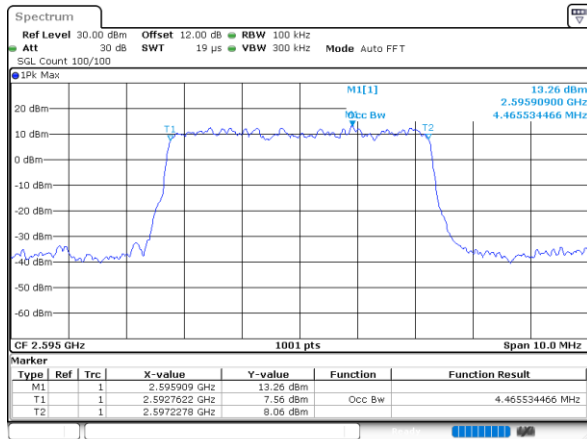
Lowest Channel / 5MHz / QPSK



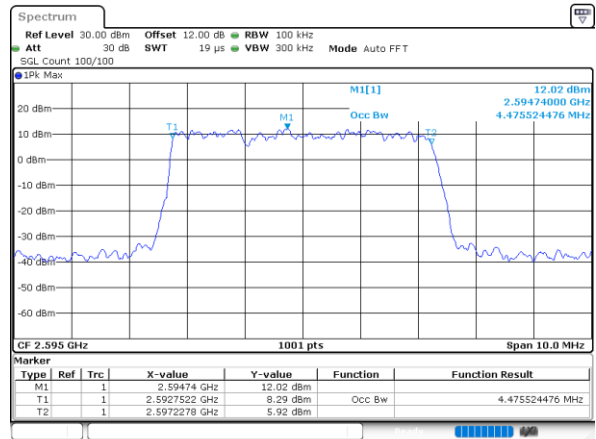
Lowest Channel / 5MHz / 16QAM



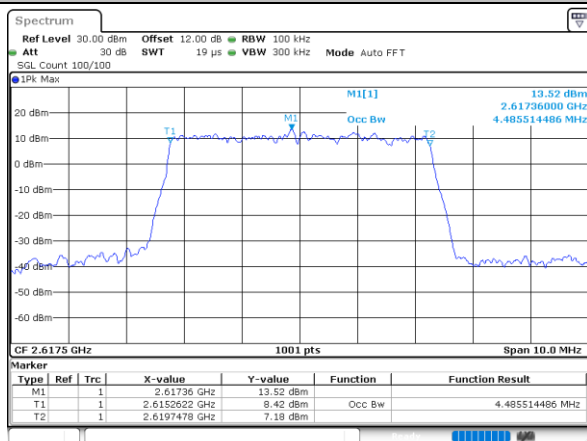
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM

