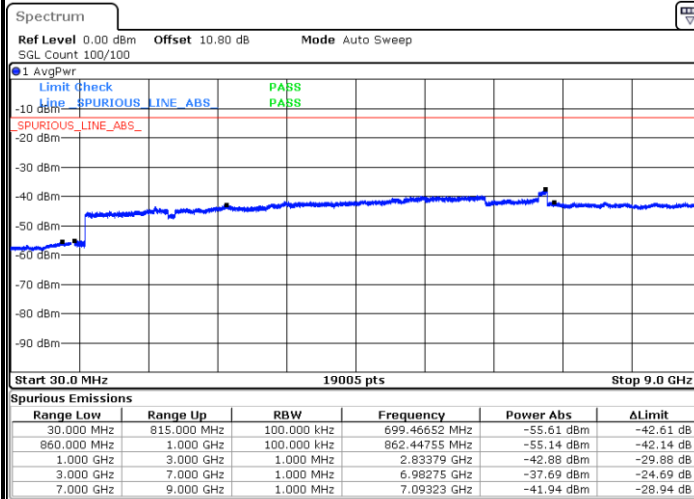




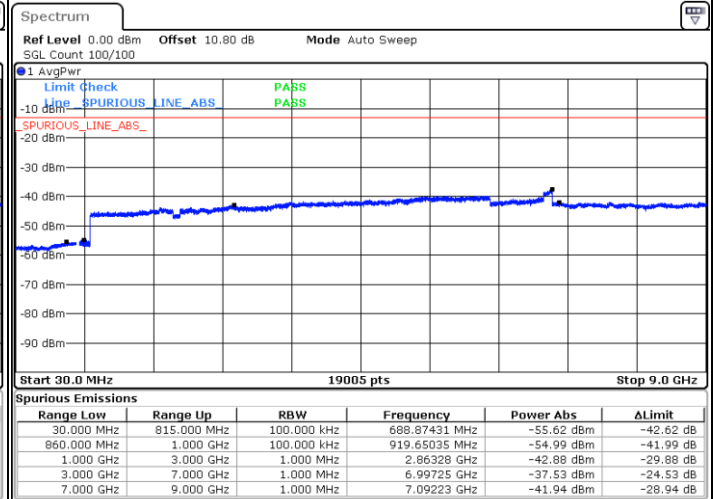
LTE Band 26 / 5MHz

Lowest Channel / QPSK



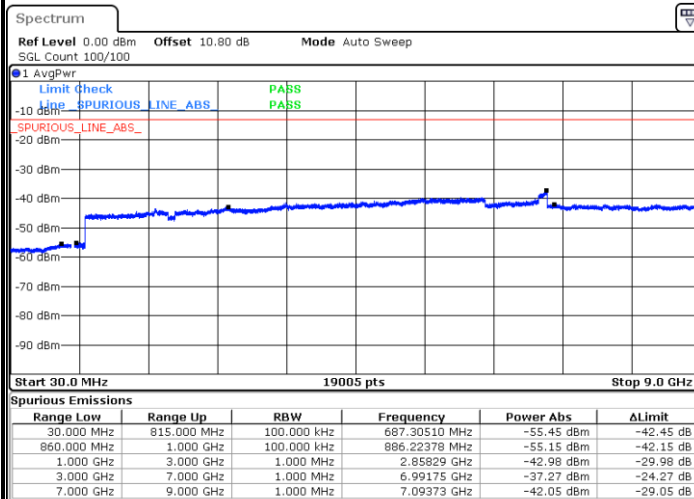
Date: 3.FEB.2020 17:17:02

Lowest Channel / 16QAM



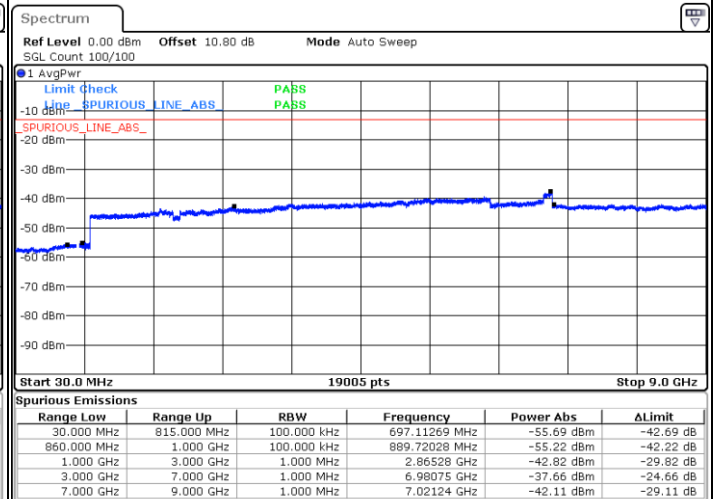
Date: 3.FEB.2020 17:18:07

Middle Channel / QPSK



Date: 3.FEB.2020 17:20:07

Middle Channel / 16QAM

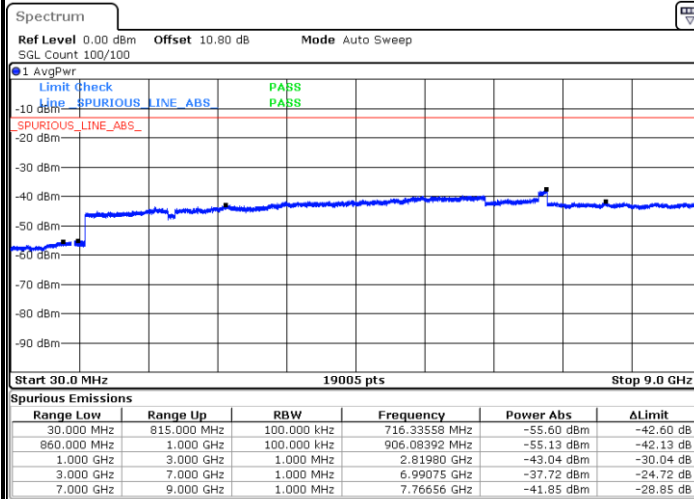


Date: 3.FEB.2020 17:21:12



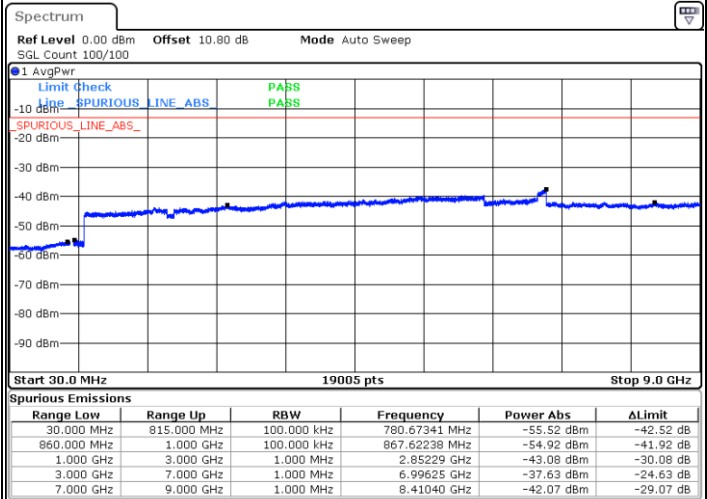
LTE Band 26 / 5MHz

Highest Channel / QPSK



Date: 3.FEB.2020 17:29:56

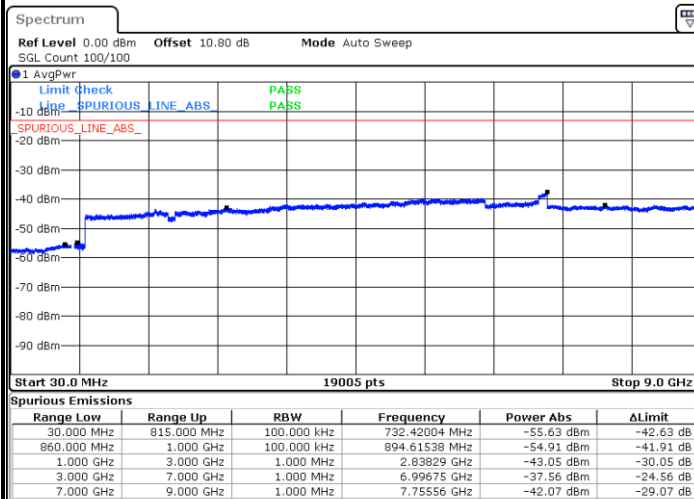
Highest Channel / 16QAM



Date: 3.FEB.2020 17:31:01

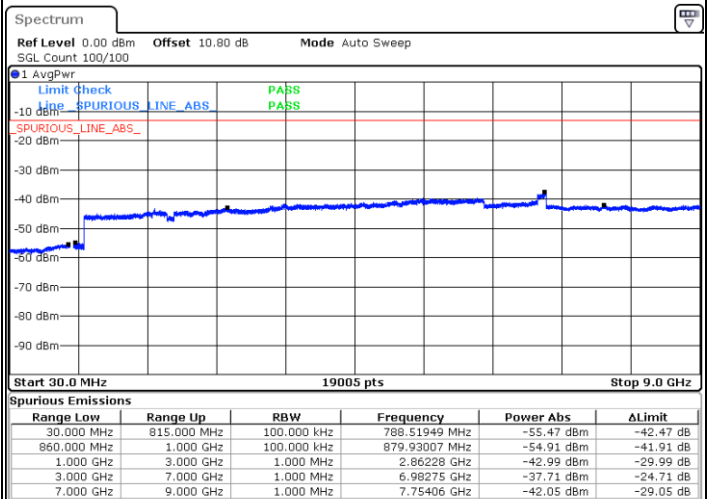
LTE Band 26 / 10MHz

Lowest Channel / QPSK



Date: 3.FEB.2020 17:39:46

Lowest Channel / 16QAM

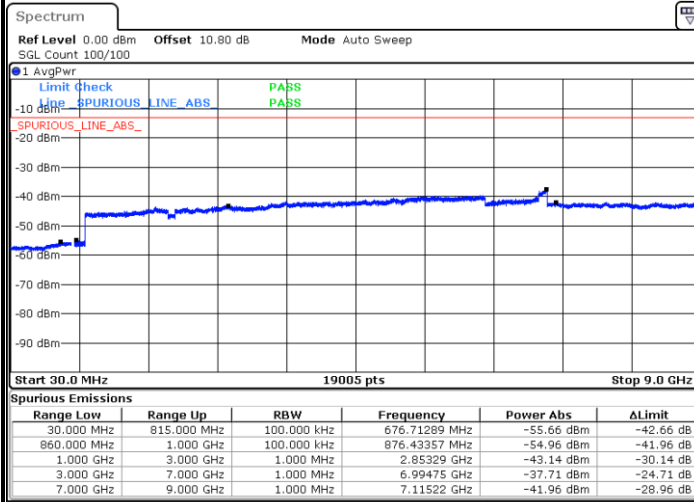


Date: 3.FEB.2020 17:40:50



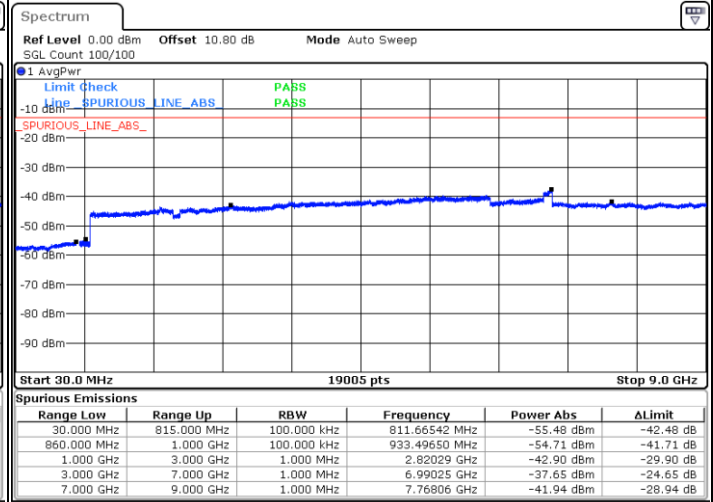
LTE Band 26 / 10MHz

Middle Channel / QPSK



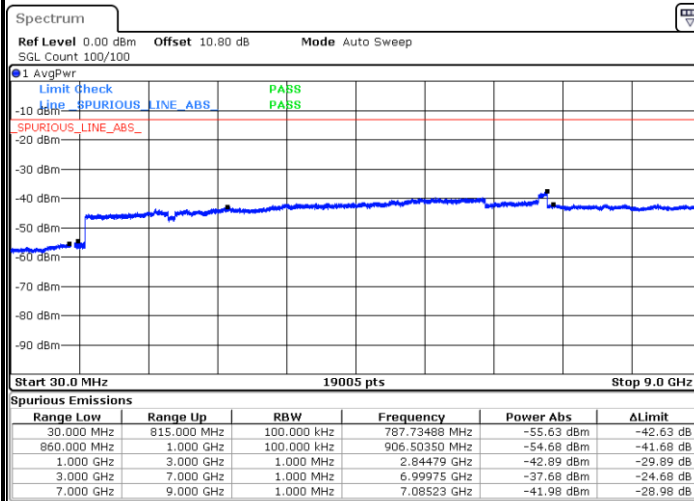
Date: 3.FEB.2020 17:42:50

Middle Channel / 16QAM



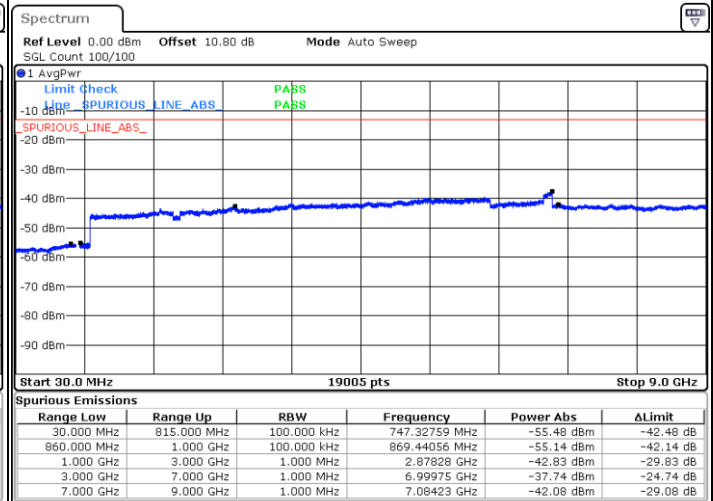
Date: 3.FEB.2020 17:43:55

Highest Channel / QPSK



Date: 3.FEB.2020 17:52:39

Highest Channel / 16QAM

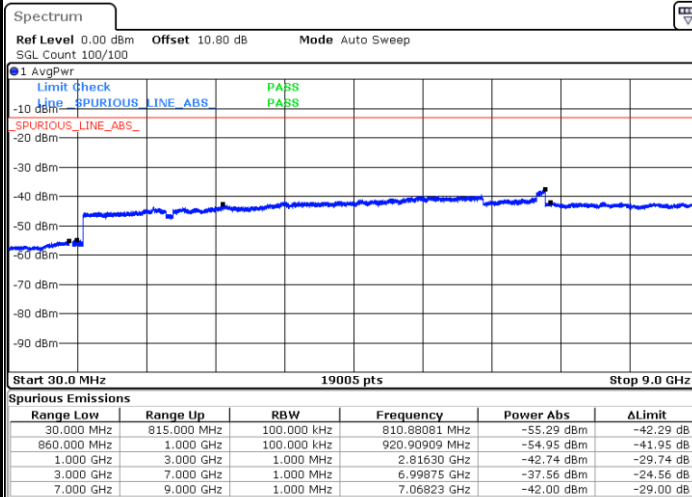


Date: 3.FEB.2020 17:53:44



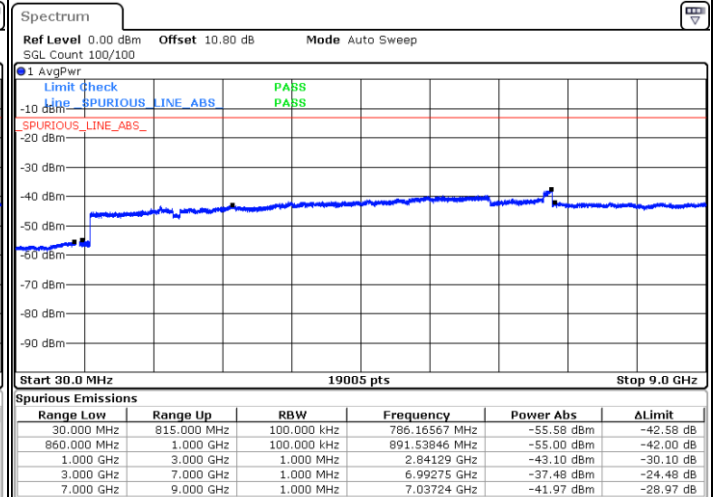
LTE Band 26 / 15MHz

Lowest Channel / QPSK



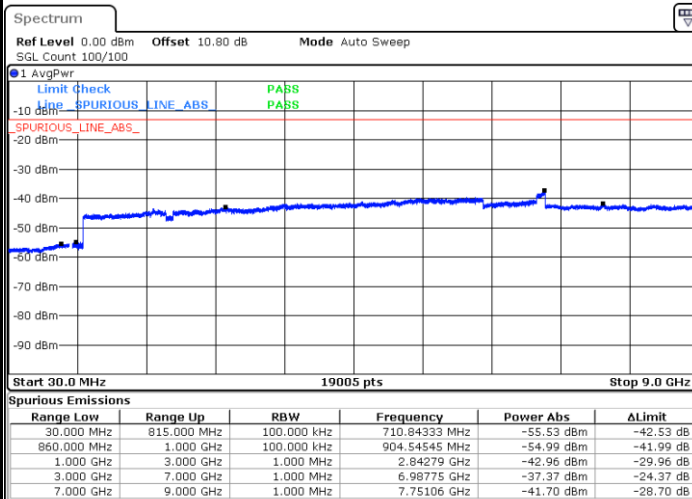
Date: 3.FEB.2020 18:02:38

Lowest Channel / 16QAM



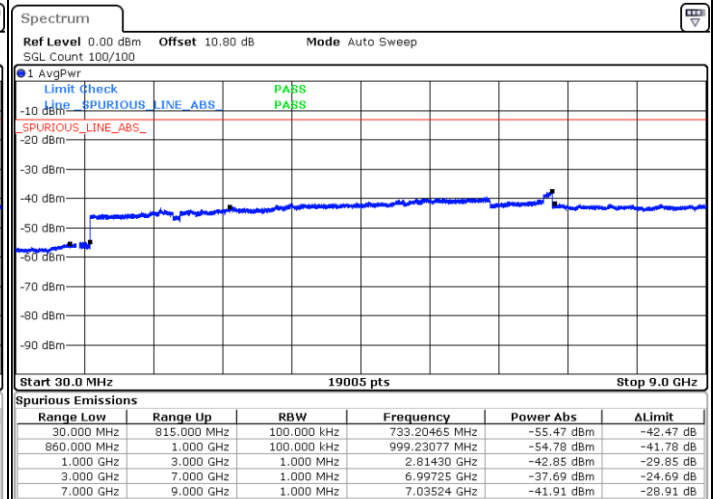
Date: 3.FEB.2020 18:03:42

Middle Channel / QPSK



Date: 3.FEB.2020 18:05:41

Middle Channel / 16QAM

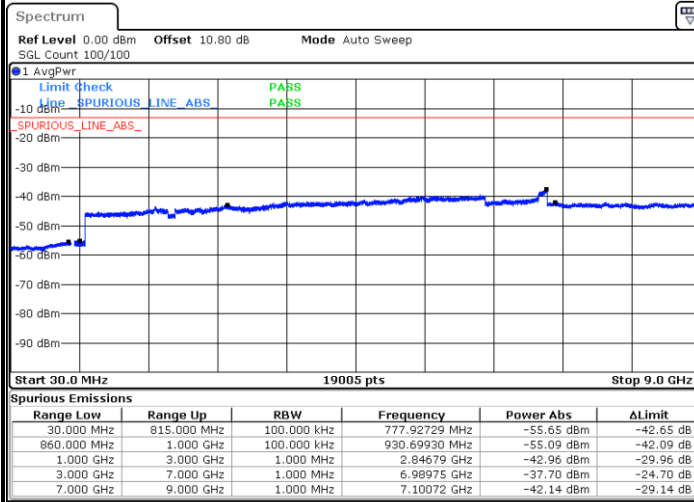


Date: 3.FEB.2020 18:06:46



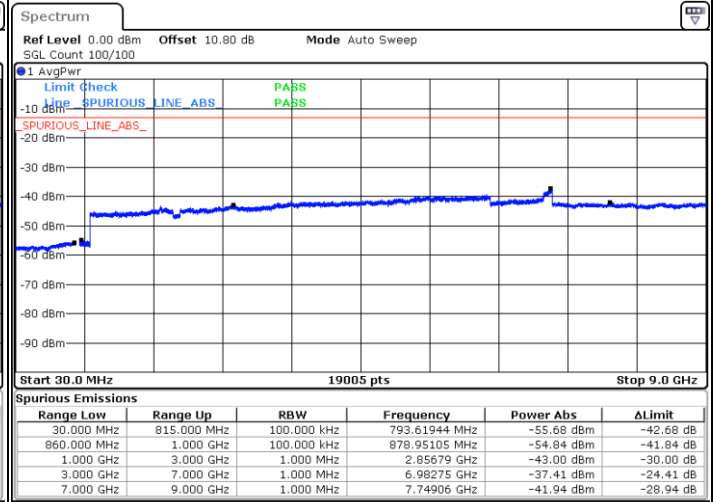
LTE Band 26 / 15MHz

Highest Channel / QPSK



Date: 3.FEB.2020 18:15:43

Highest Channel / 16QAM

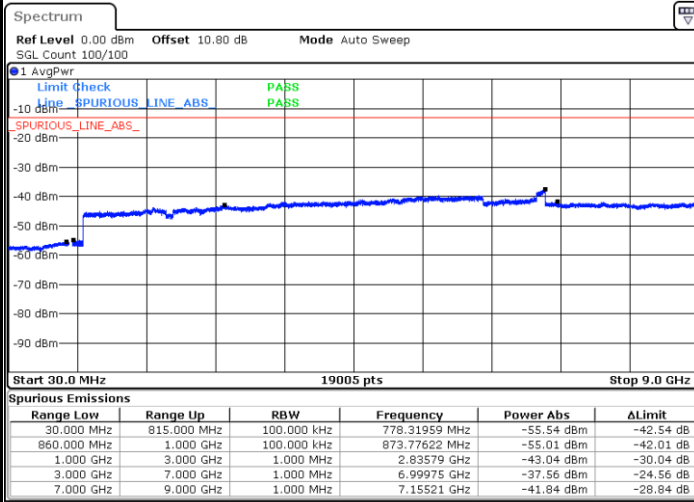


Date: 3.FEB.2020 18:16:48



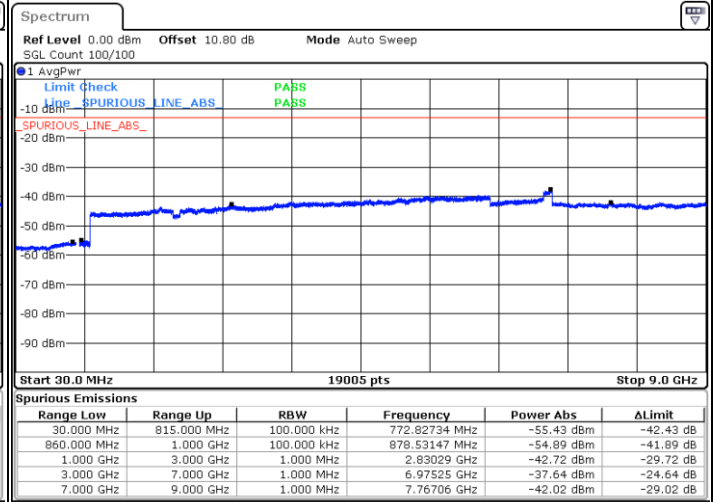
LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM



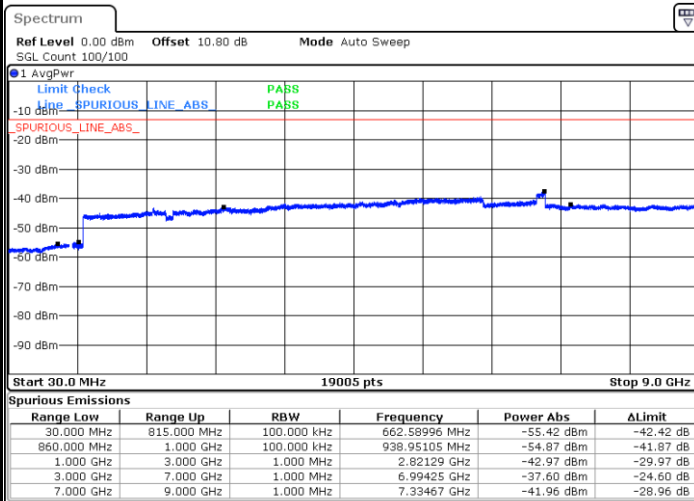
Date: 3.FEB.2020 15:53:30

Middle Channel / 64QAM



Date: 3.FEB.2020 15:55:03

Highest Channel / 64QAM

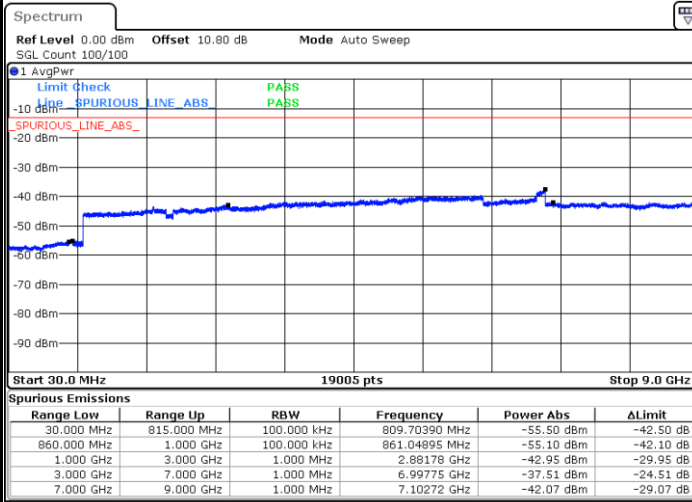


Date: 3.FEB.2020 15:59:57



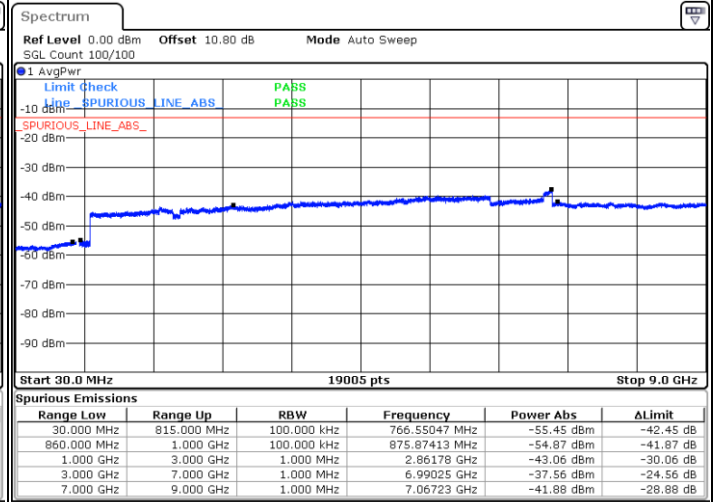
LTE Band 26 / 3MHz

Lowest Channel / 64QAM



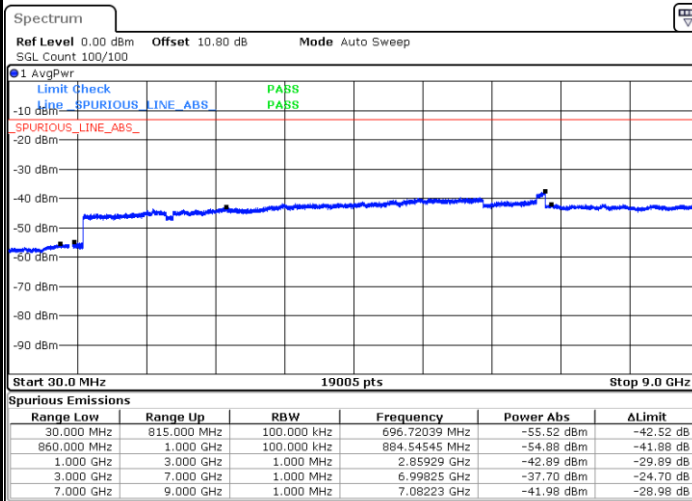
Date: 3.FEB.2020 16:04:52

Middle Channel / 64QAM



Date: 3.FEB.2020 16:06:24

Highest Channel / 64QAM

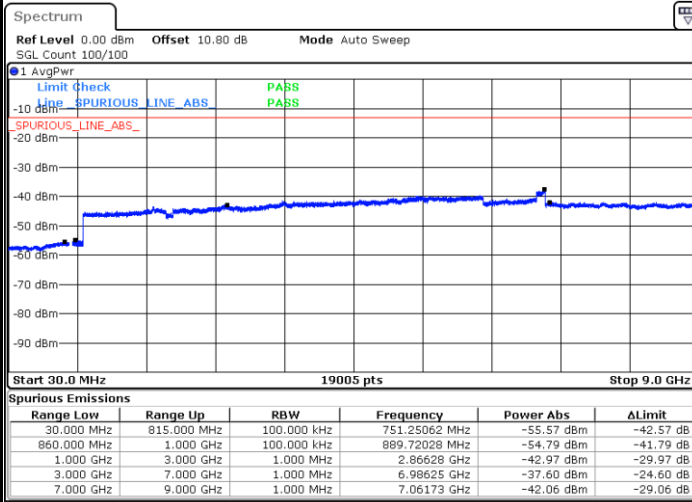


Date: 3.FEB.2020 16:11:19



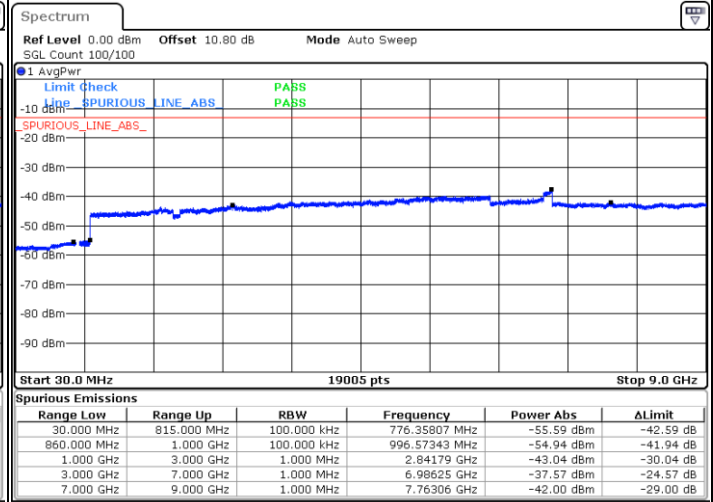
LTE Band 26 / 5MHz

Lowest Channel / 64QAM



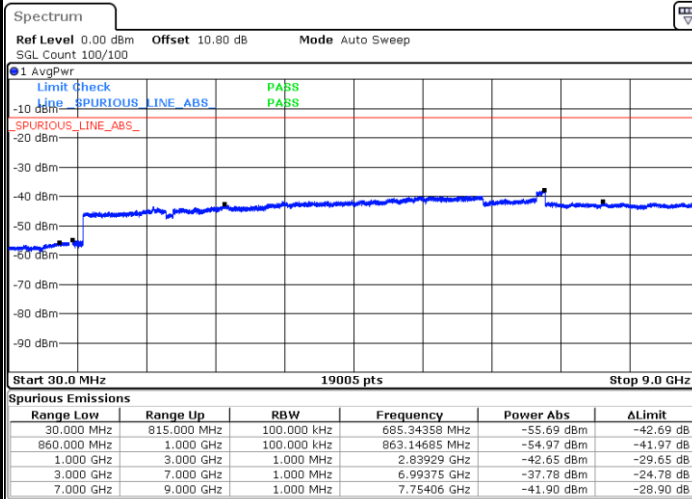
Date: 3.FEB.2020 16:16:13

Middle Channel / 64QAM



Date: 3.FEB.2020 16:17:46

Highest Channel / 64QAM

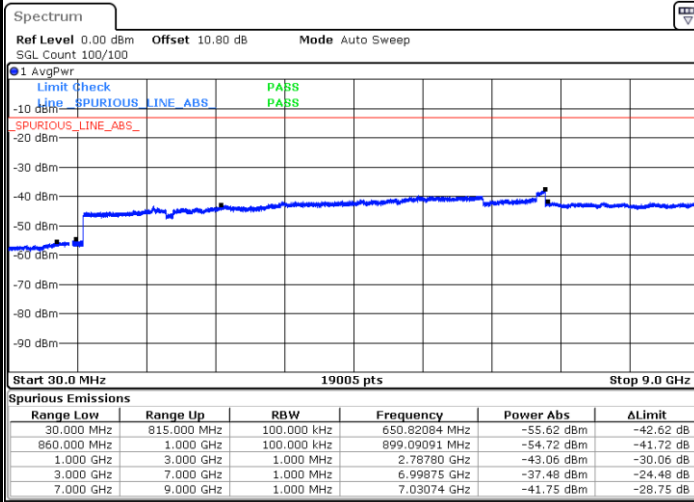


Date: 3.FEB.2020 16:22:40



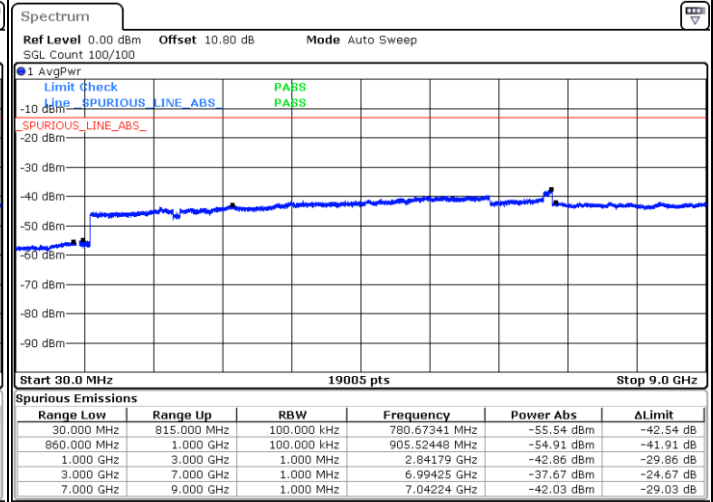
LTE Band 26 / 10MHz

Lowest Channel / 64QAM



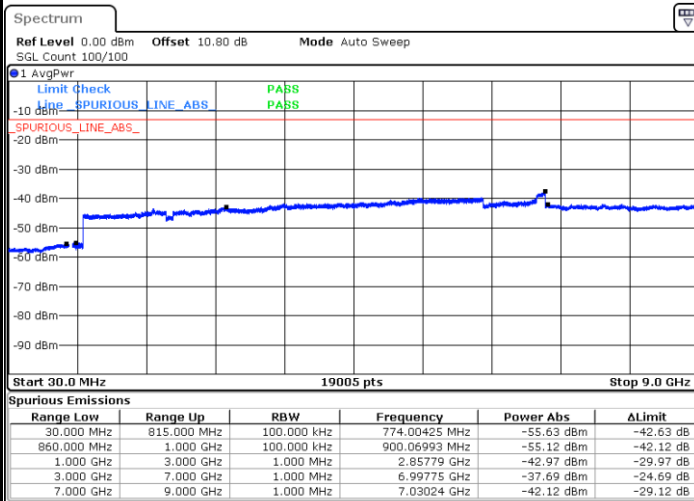
Date: 3.FEB.2020 16:27:35

Middle Channel / 64QAM



Date: 3.FEB.2020 16:29:08

Highest Channel / 64QAM

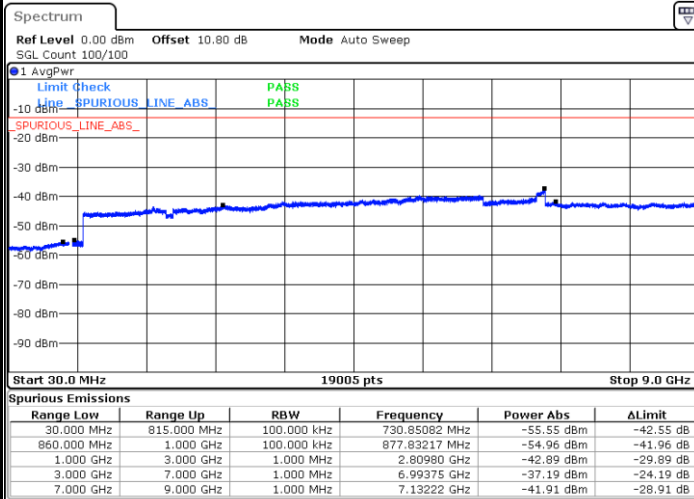


Date: 3.FEB.2020 16:34:02



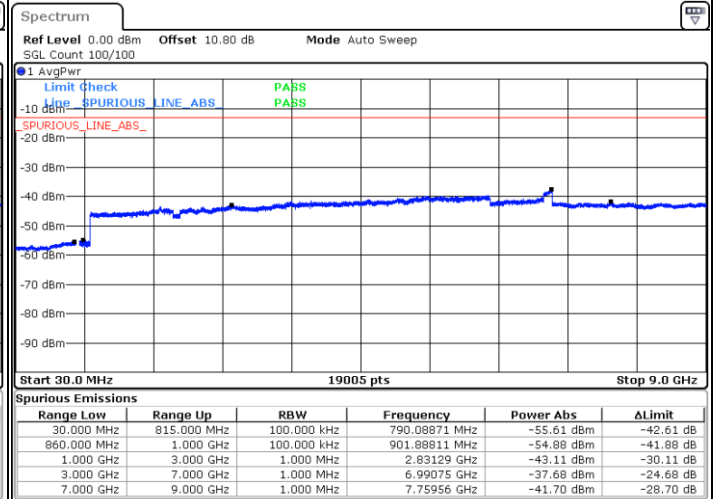
LTE Band 26 / 15MHz

Lowest Channel / 64QAM



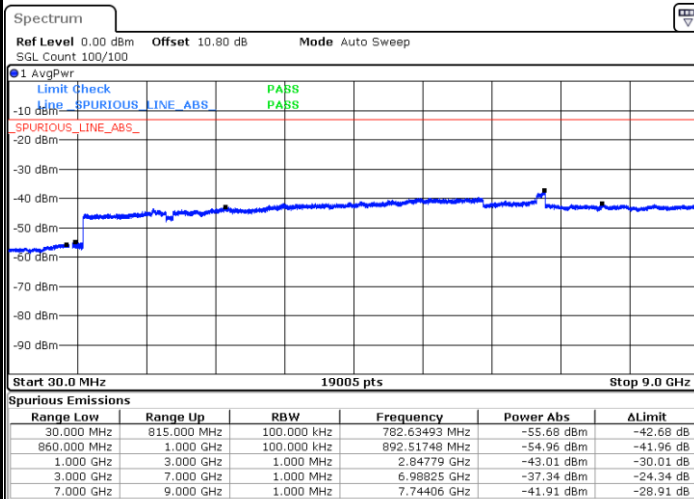
Date: 3.FEB.2020 16:39:01

Middle Channel / 64QAM



Date: 3.FEB.2020 16:40:33

Highest Channel / 64QAM



Date: 3.FEB.2020 16:45:34

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	0.0020	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0118	
0	Normal Voltage	0.0062	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0087	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0055	

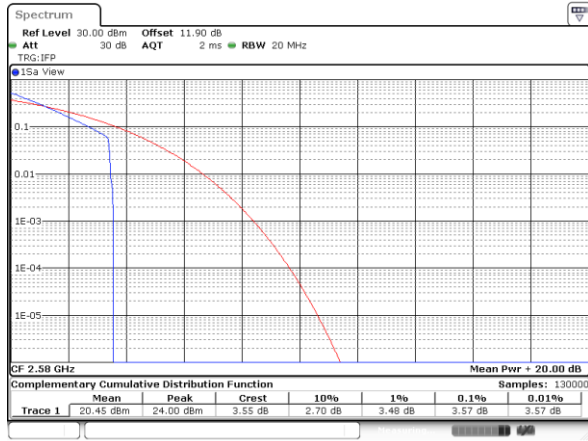
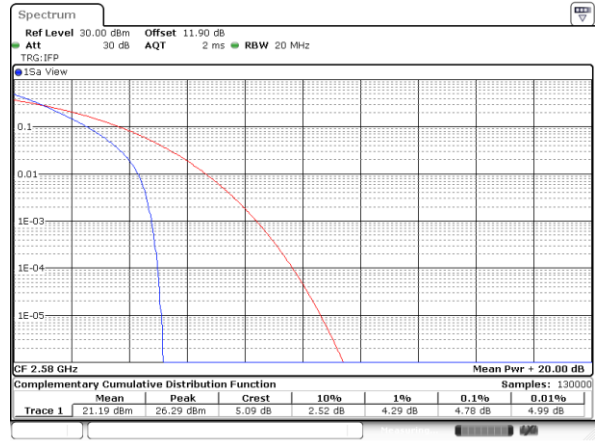
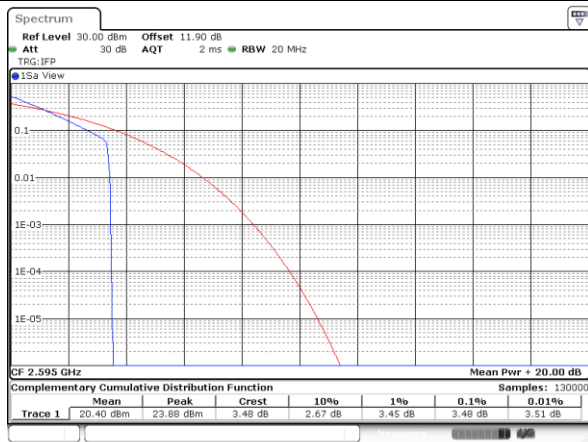
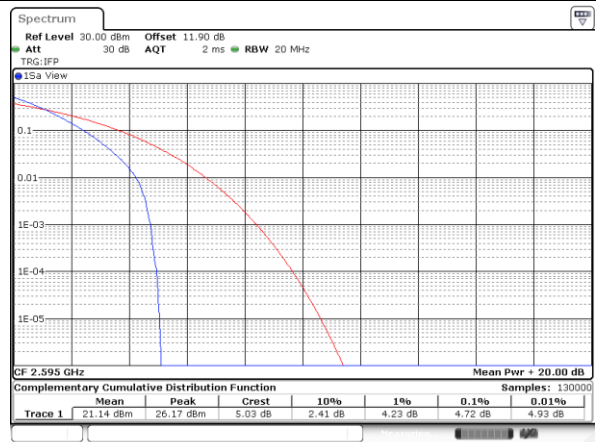
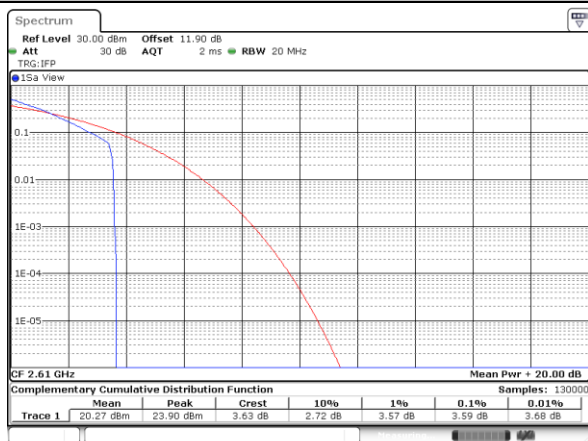
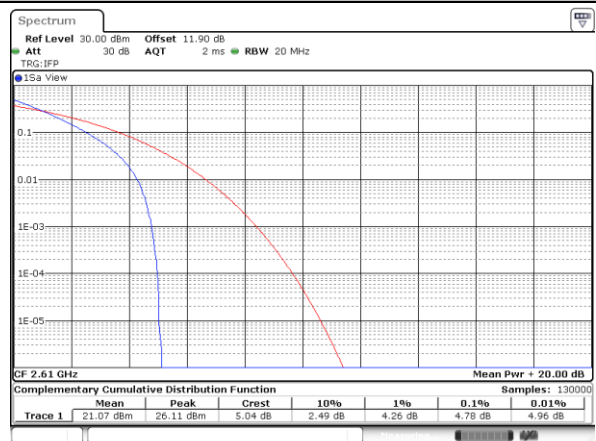
Note:

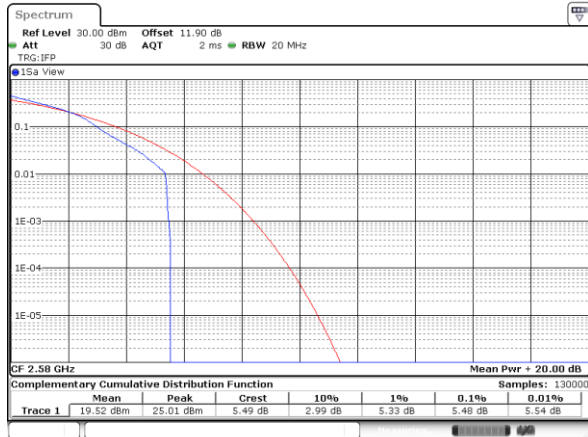
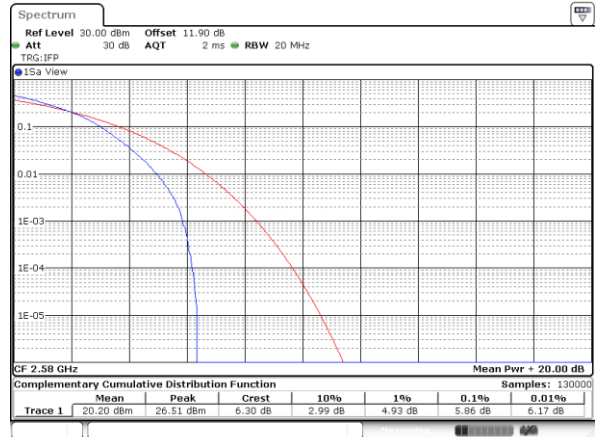
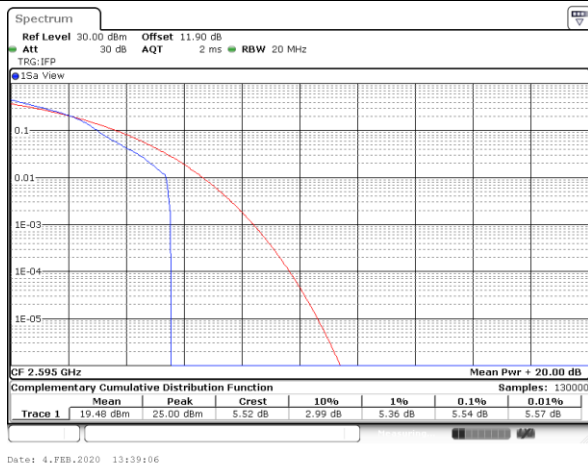
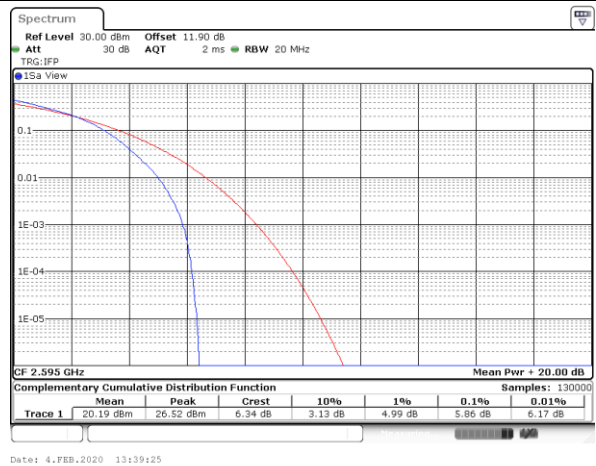
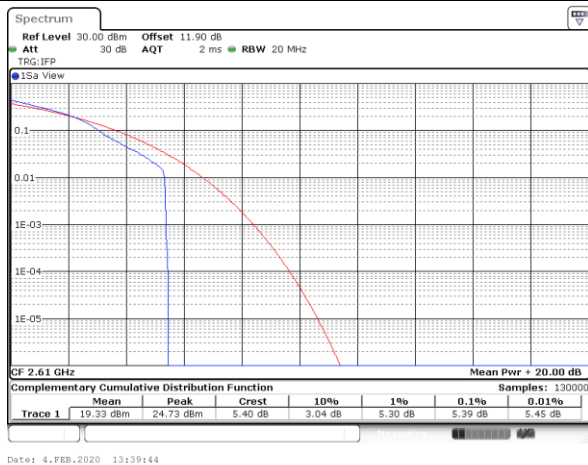
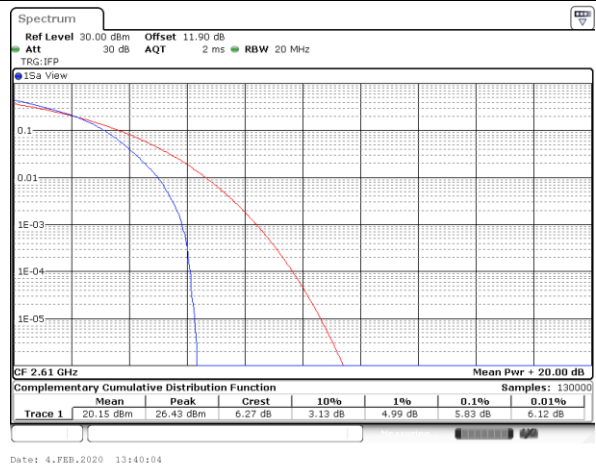
1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

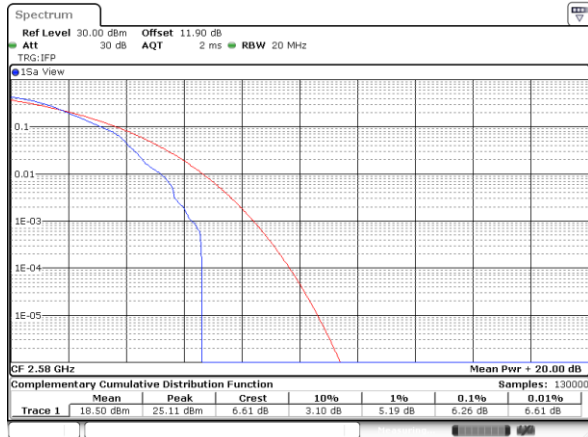
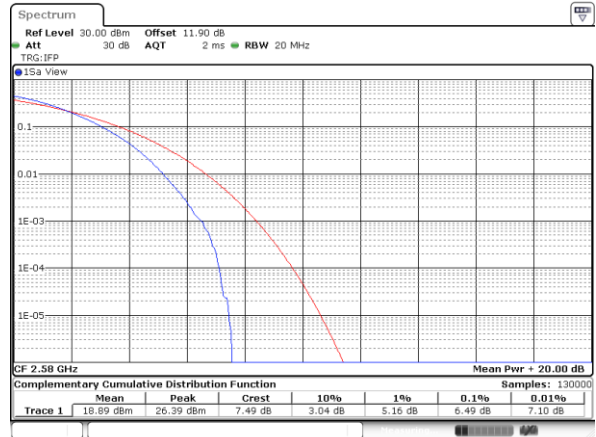
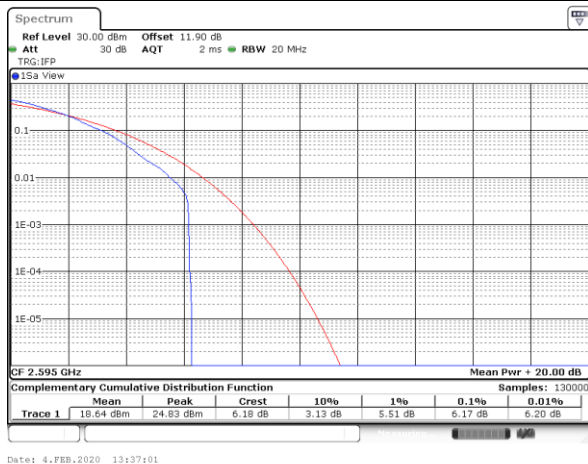
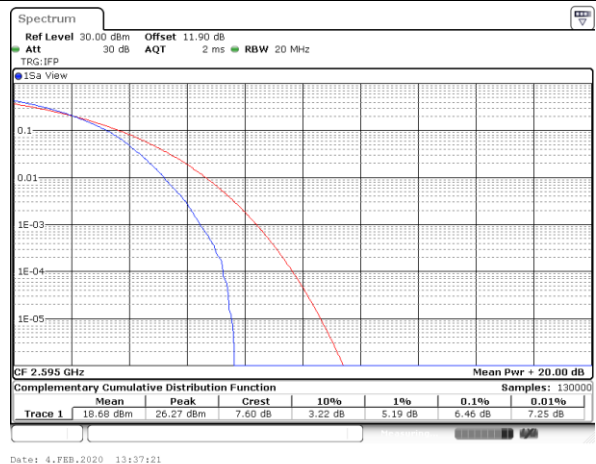
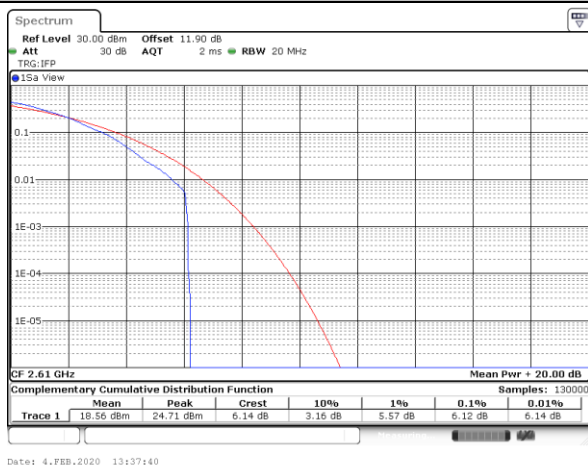
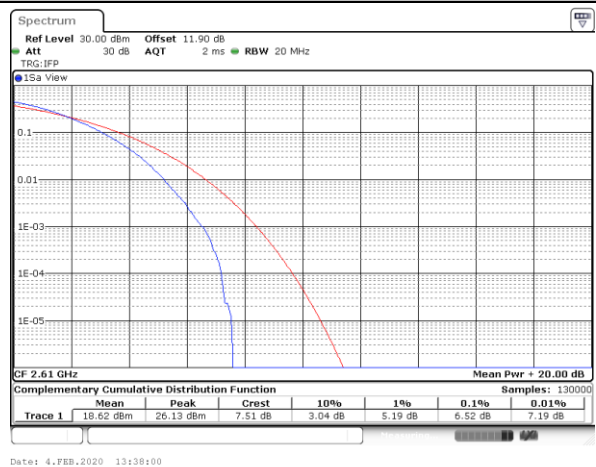
LTE Band 38

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	3.57	4.78	5.48	5.86	PASS
Middle CH	3.48	4.72	5.54	5.86	
Highest CH	3.59	4.78	5.39	5.83	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.26	6.49	-	-	PASS
Middle CH	6.17	6.46	-	-	
Highest CH	6.12	6.52	-	-	

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


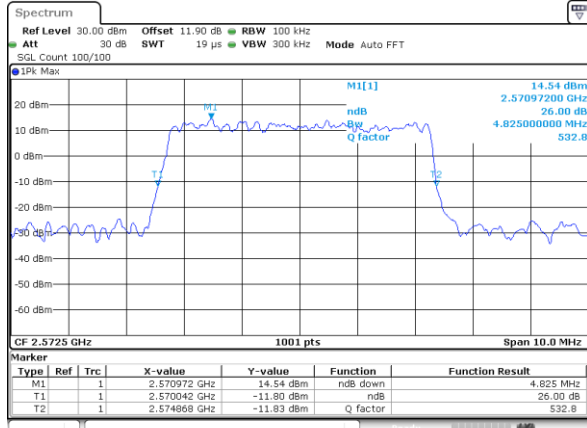
**26dB Bandwidth**

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	-	-	-	-	4.83	4.75	9.61	9.65	14.54	14.27	18.82	19.18
Middle CH	-	-	-	-	4.89	4.85	9.87	9.63	14.21	14.15	18.74	18.78
Highest CH	-	-	-	-	4.94	4.94	9.87	9.67	14.18	14.30	18.90	18.74
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.86	-	9.73	-	14.09	-	18.98	-
Middle CH	-	-	-	-	4.78	-	9.63	-	14.15	-	18.70	-
Highest CH	-	-	-	-	4.82	-	9.59	-	14.15	-	18.86	-



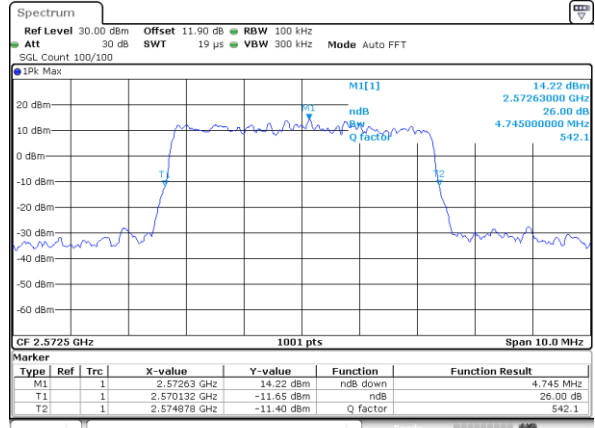
LTE Band 38

Lowest Channel / 5MHz / QPSK



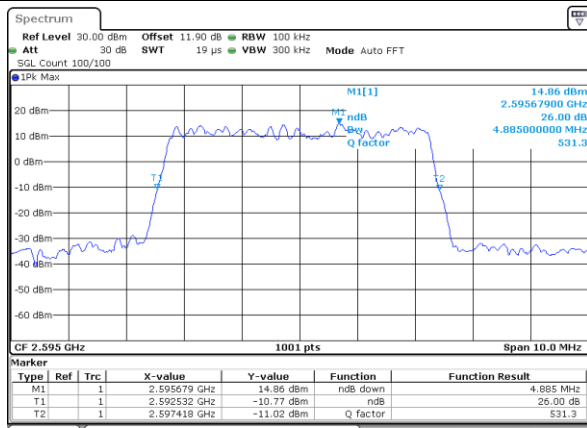
Date: 4.FEB.2020 11:33:45

Lowest Channel / 5MHz / 16QAM



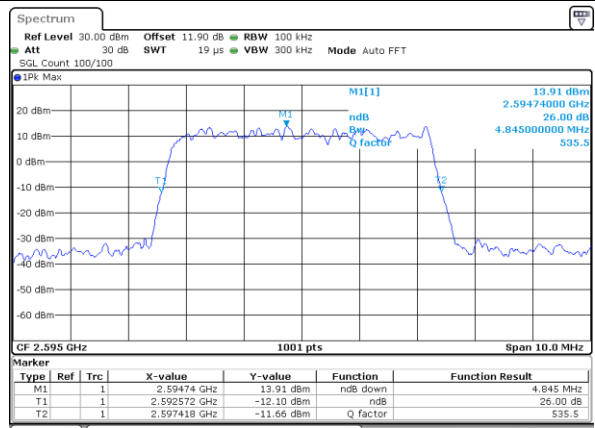
Date: 4.FEB.2020 11:33:58

Middle Channel / 5MHz / QPSK



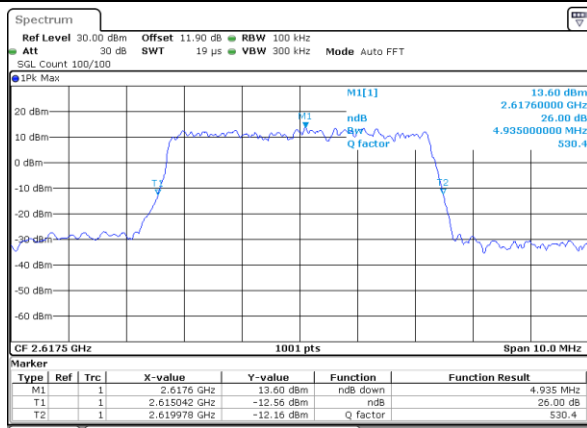
Date: 4.FEB.2020 11:34:39

Middle Channel / 5MHz / 16QAM



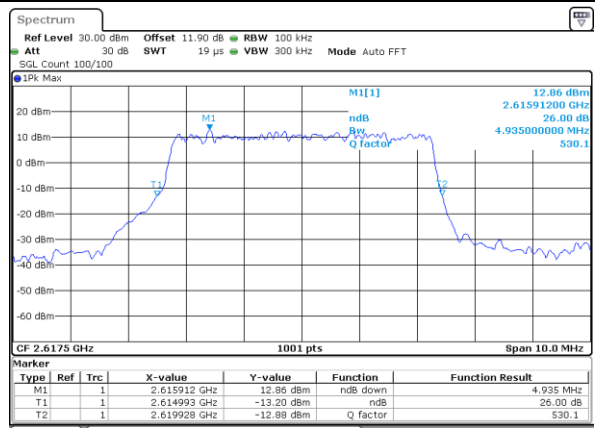
Date: 4.FEB.2020 11:34:52

Highest Channel / 5MHz / QPSK



Date: 4.FEB.2020 11:35:33

Highest Channel / 5MHz / 16QAM

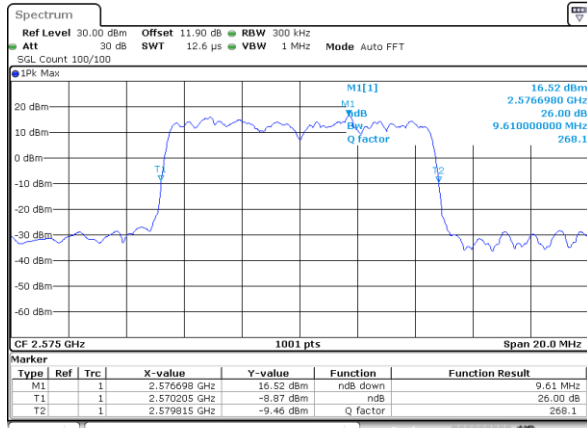


Date: 4.FEB.2020 11:35:47



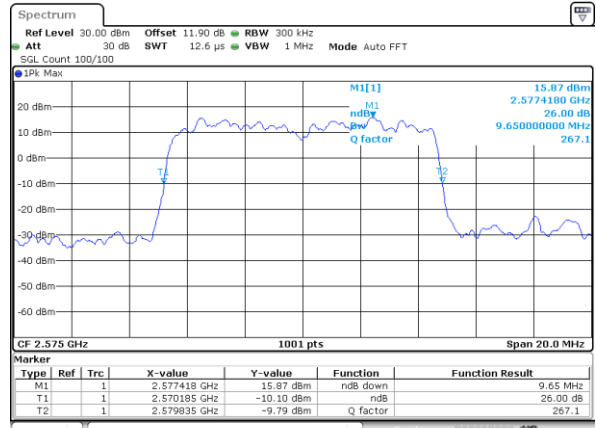
LTE Band 38

Lowest Channel / 10MHz / QPSK



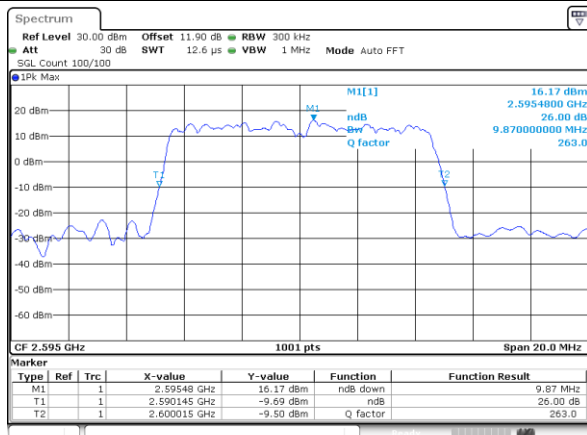
Date: 4.FEB.2020 11:36:29

Lowest Channel / 10MHz / 16QAM



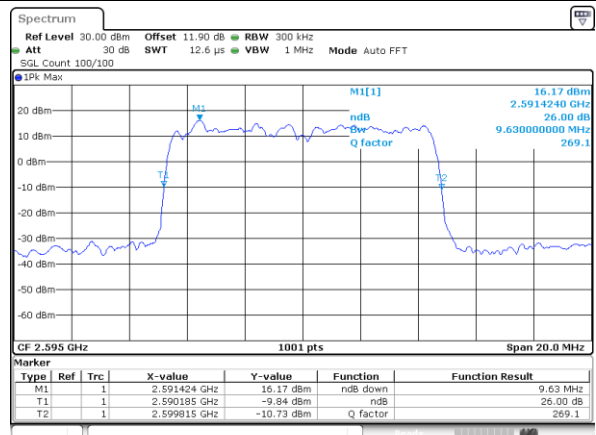
Date: 4.FEB.2020 11:36:43

Middle Channel / 10MHz / QPSK



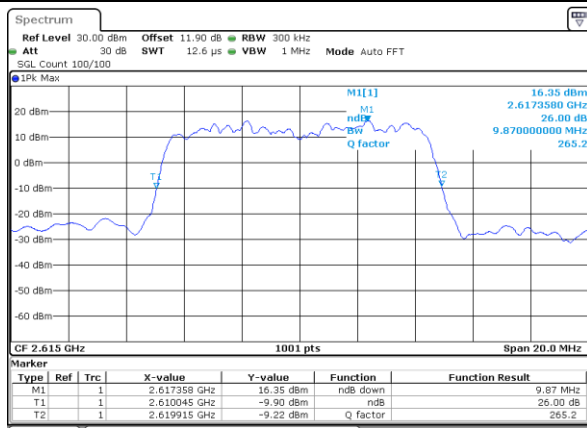
Date: 4.FEB.2020 11:37:23

Middle Channel / 10MHz / 16QAM



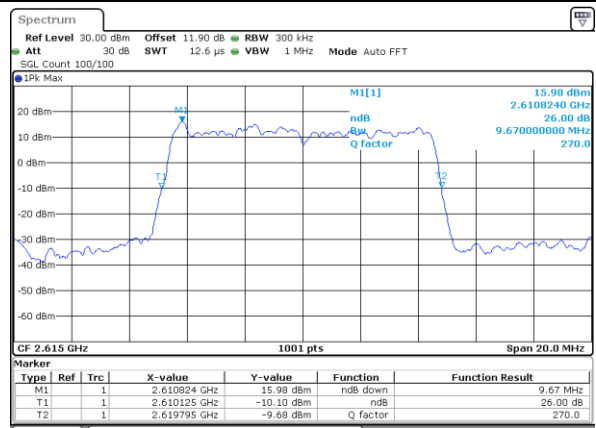
Date: 4.FEB.2020 11:37:36

Highest Channel / 10MHz / QPSK



Date: 4.FEB.2020 11:38:18

Highest Channel / 10MHz / 16QAM

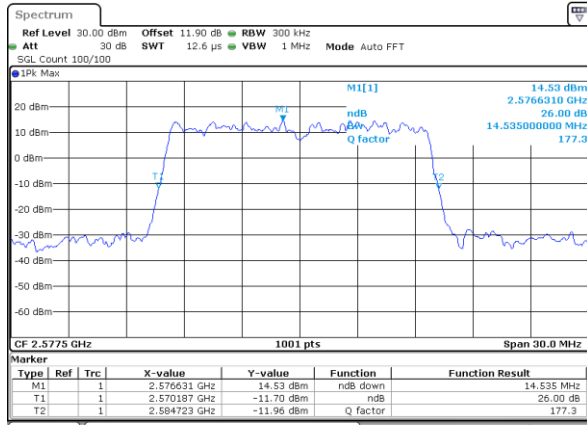


Date: 4.FEB.2020 11:38:31

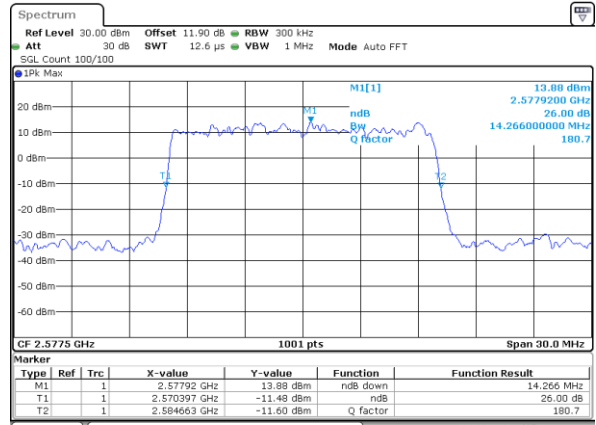


LTE Band 38

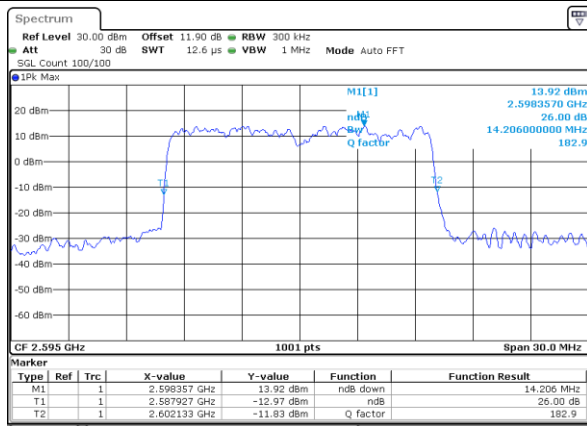
Lowest Channel / 15MHz / QPSK



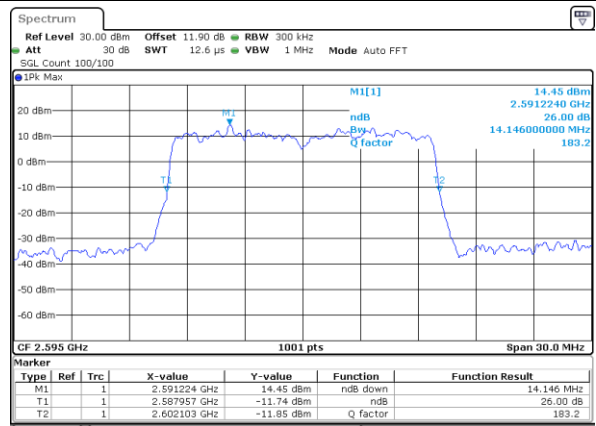
Lowest Channel / 15MHz / 16QAM



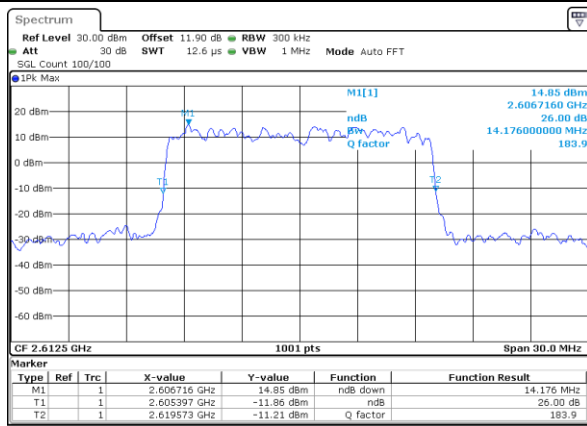
Middle Channel / 15MHz / QPSK



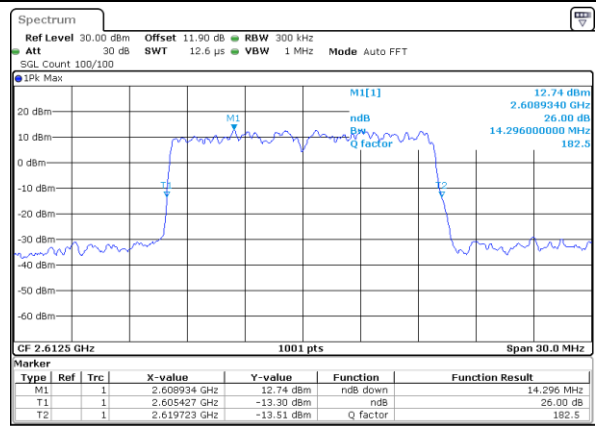
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



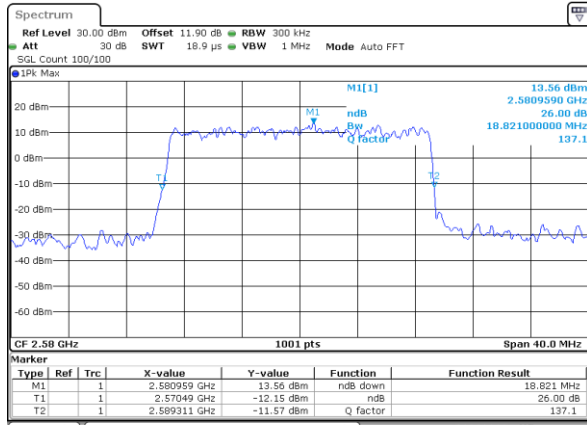
Highest Channel / 15MHz / 16QAM





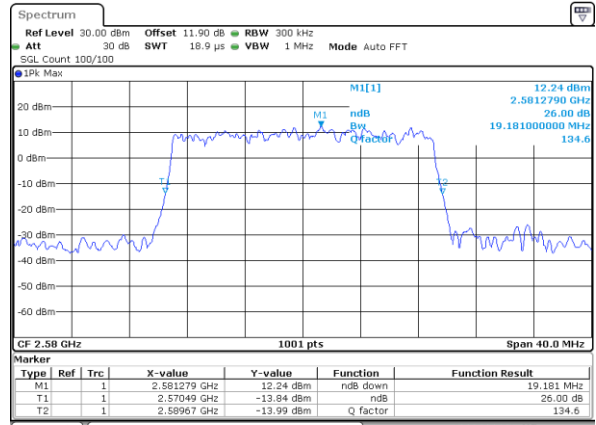
LTE Band 38

Lowest Channel / 20MHz / QPSK



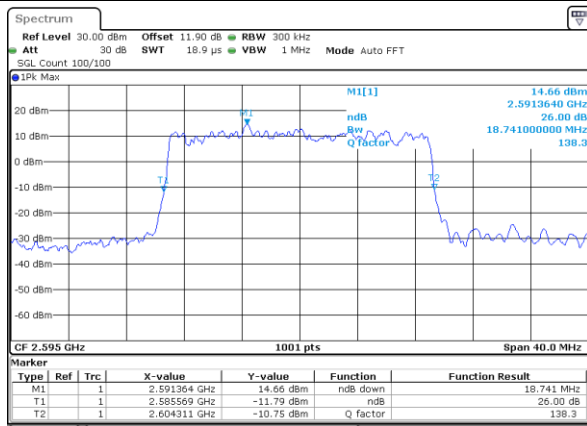
Date: 4.FEB.2020 11:41:58

Lowest Channel / 20MHz / 16QAM



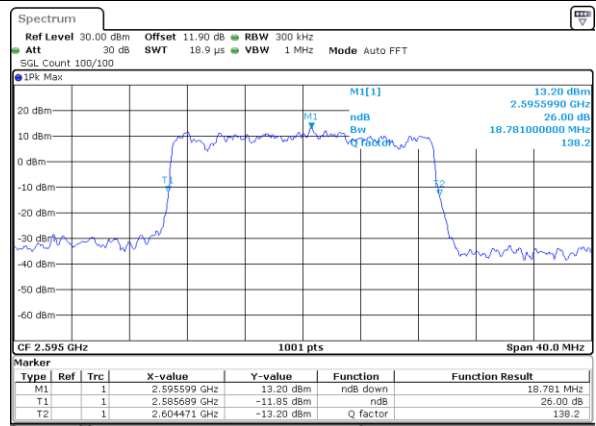
Date: 4.FEB.2020 11:42:12

Middle Channel / 20MHz / QPSK



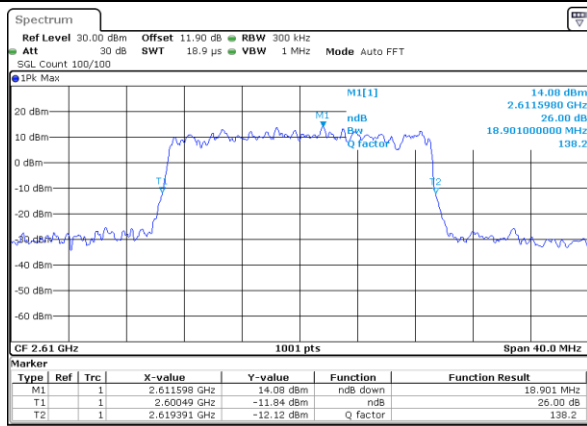
Date: 4.FEB.2020 11:42:52

Middle Channel / 20MHz / 16QAM



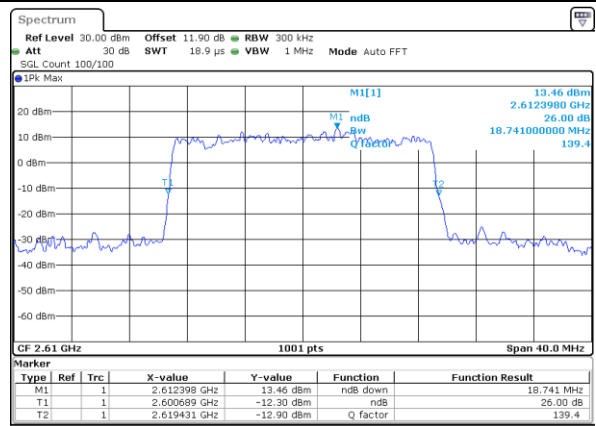
Date: 4.FEB.2020 11:43:06

Highest Channel / 20MHz / QPSK



Date: 4.FEB.2020 11:43:47

Highest Channel / 20MHz / 16QAM

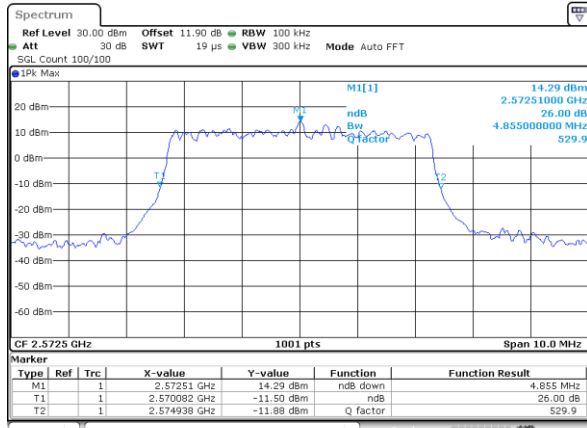


Date: 4.FEB.2020 11:44:01



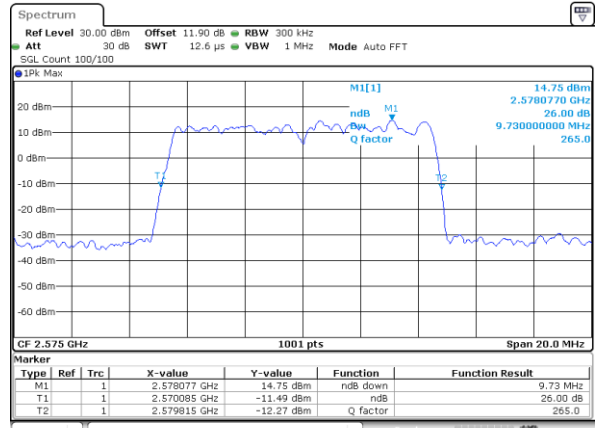
LTE Band 38

Lowest Channel / 5MHz / 64QAM



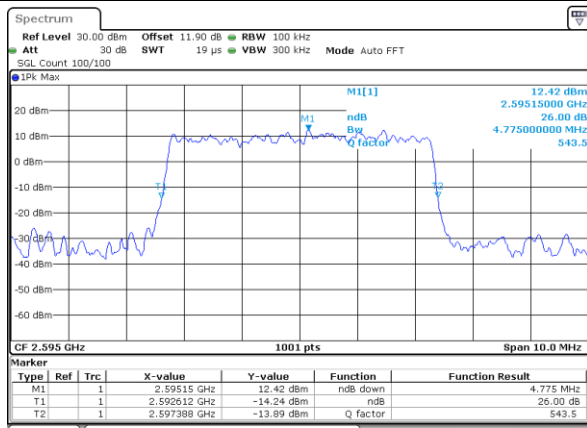
Date: 4.FEB.2020 11:44:29

Lowest Channel / 10MHz / 64QAM



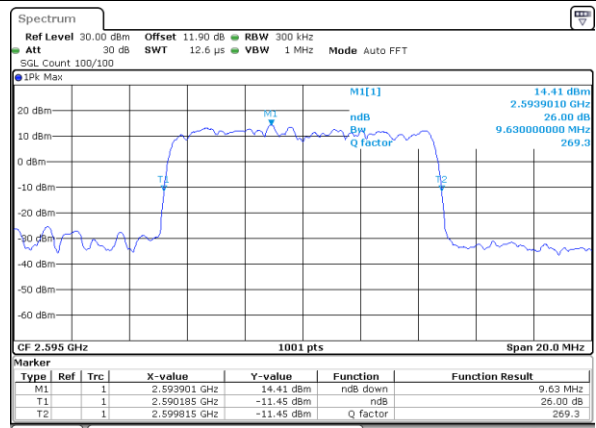
Date: 4.FEB.2020 11:45:50

Middle Channel / 5MHz / 64QAM



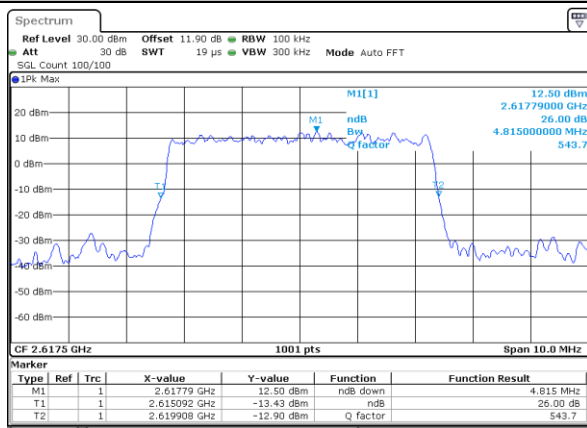
Date: 4.FEB.2020 11:44:55

Middle Channel / 10MHz / 64QAM



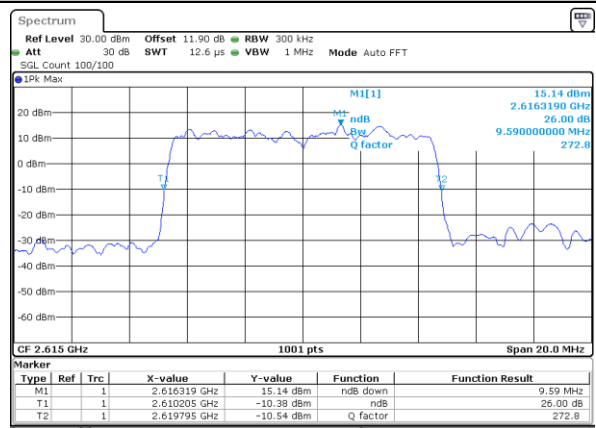
Date: 4.FEB.2020 11:46:17

Highest Channel / 5MHz / 64QAM



Date: 4.FEB.2020 11:45:22

Highest Channel / 10MHz / 64QAM

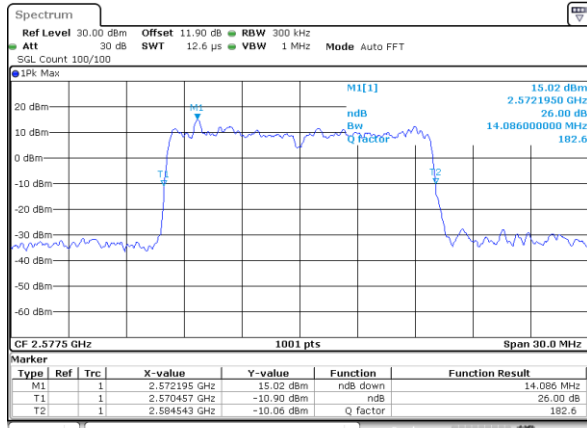


Date: 4.FEB.2020 11:46:44



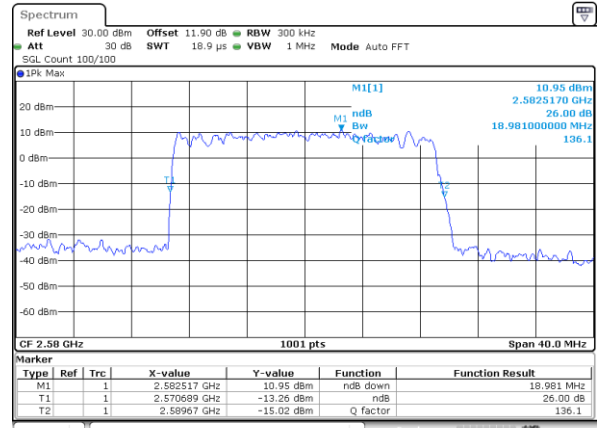
LTE Band 38

Lowest Channel / 15MHz / 64QAM



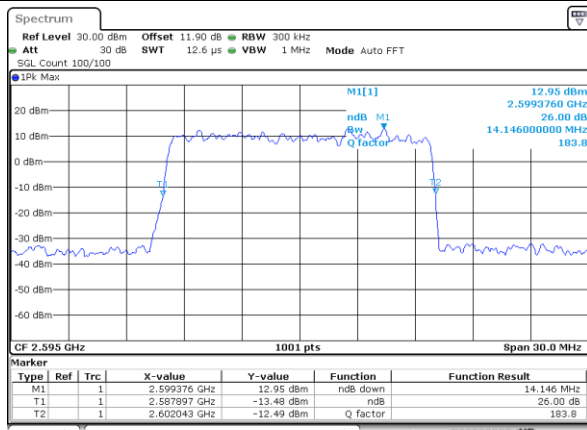
Date: 4.FEB.2020 11:47:12

Lowest Channel / 20MHz / 64QAM



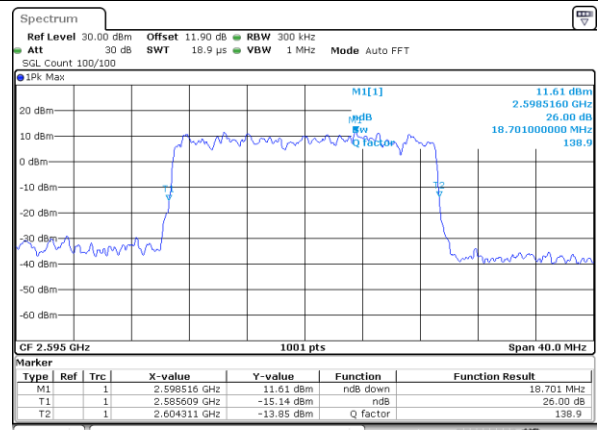
Date: 4.FEB.2020 11:48:35

Middle Channel / 15MHz / 64QAM



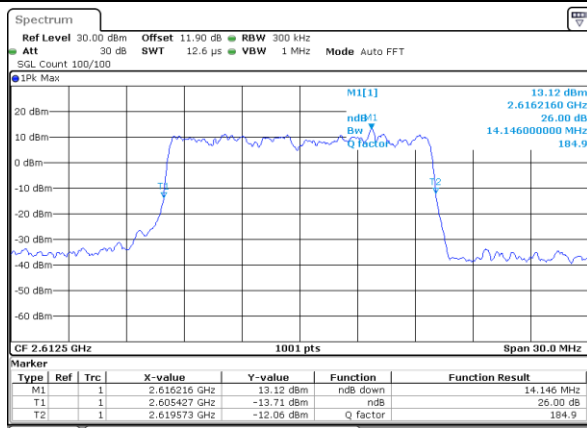
Date: 4.FEB.2020 11:47:39

Middle Channel / 20MHz / 64QAM



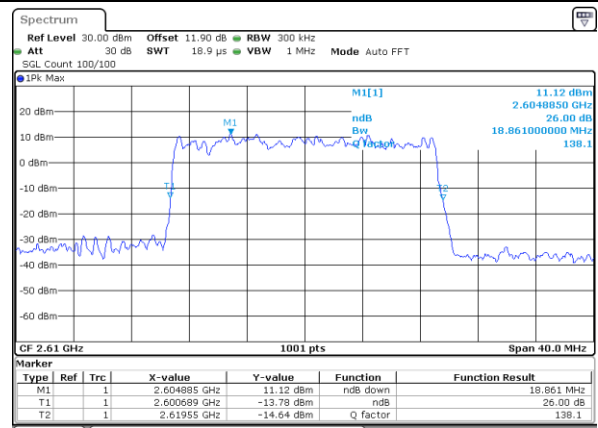
Date: 4.FEB.2020 11:49:01

Highest Channel / 15MHz / 64QAM



Date: 4.FEB.2020 11:48:06

Highest Channel / 20MHz / 64QAM



Date: 4.FEB.2020 11:49:28

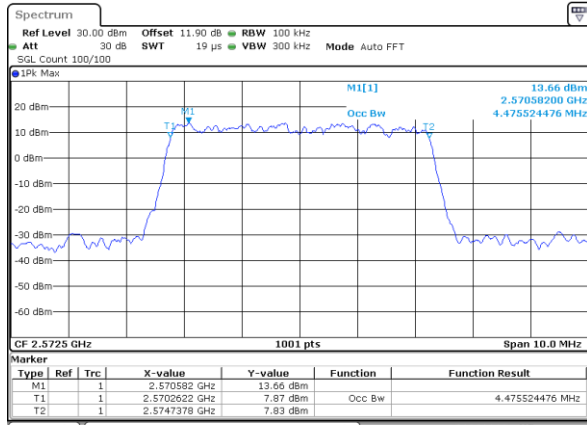
**Occupied Bandwidth**

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	-	-	-	-	4.48	4.48	9.05	9.01	13.43	13.43	17.90	17.90
Middle CH	-	-	-	-	4.47	4.47	8.97	9.05	13.43	13.34	17.90	17.90
Highest CH	-	-	-	-	4.51	4.50	9.01	8.99	13.43	13.43	17.82	17.82
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	8.99	-	13.43	-	17.86	-
Middle CH	-	-	-	-	4.46	-	9.03	-	13.43	-	17.86	-
Highest CH	-	-	-	-	4.51	-	9.03	-	13.49	-	17.78	-

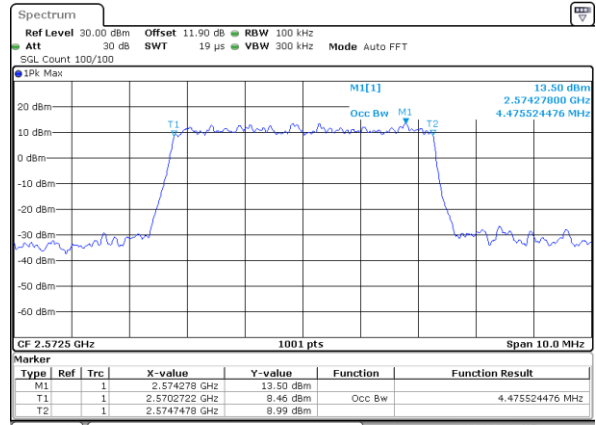


LTE Band 38

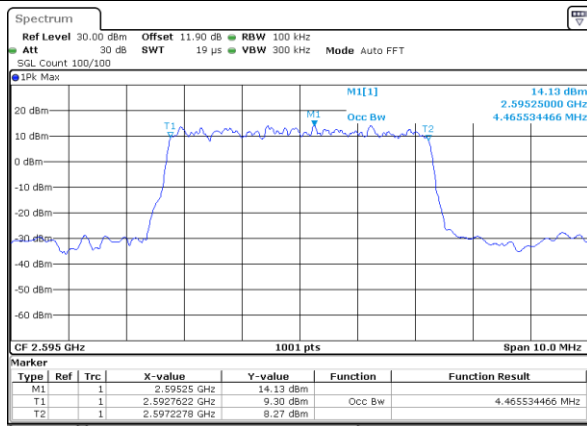
Lowest Channel / 5MHz / QPSK



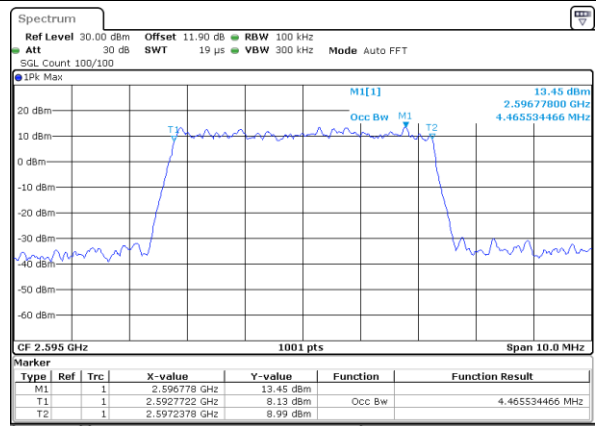
Lowest Channel / 5MHz / 16QAM



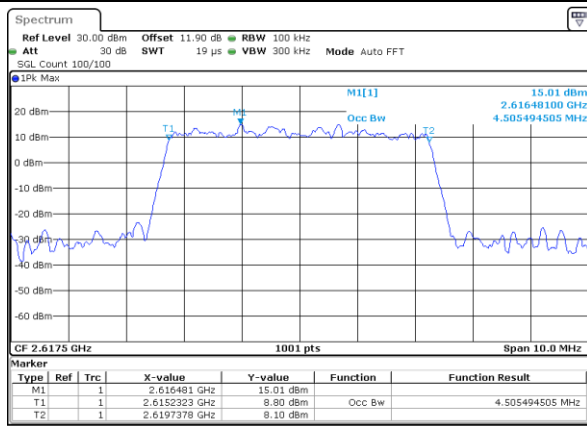
Middle Channel / 5MHz / QPSK



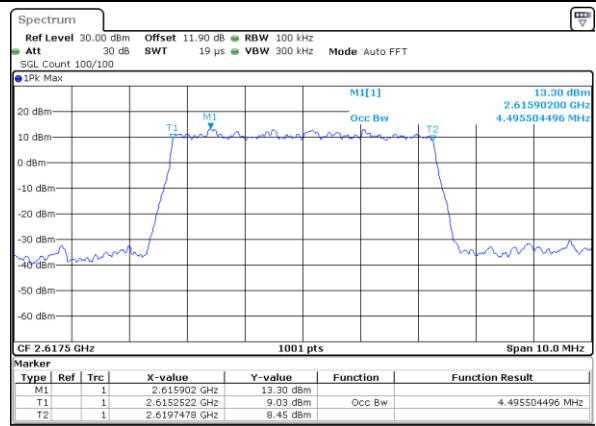
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



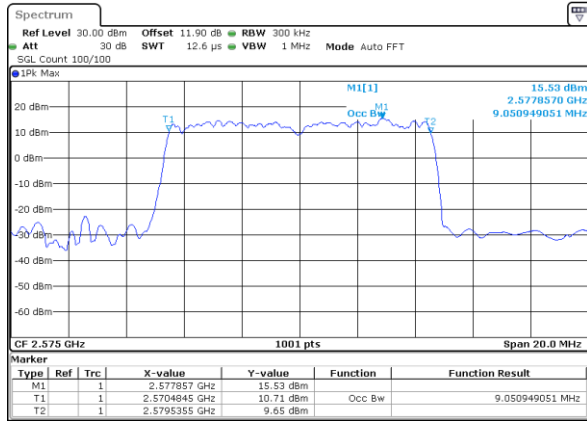
Highest Channel / 5MHz / 16QAM





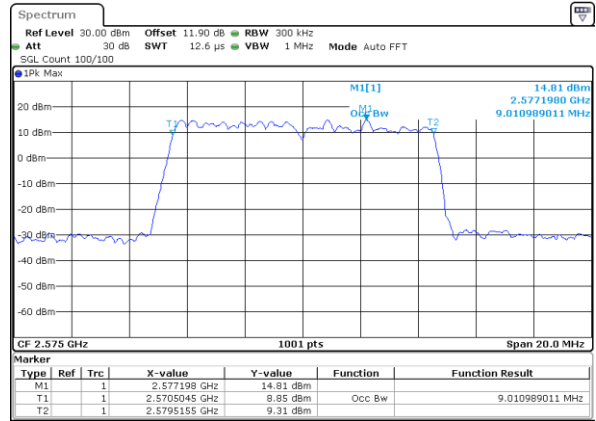
LTE Band 38

Lowest Channel / 10MHz / QPSK



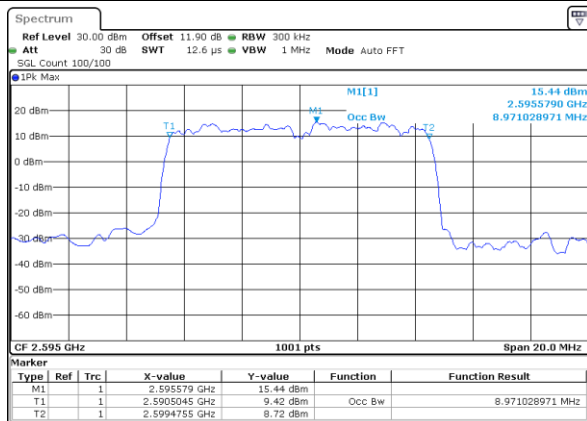
Date: 4.FEB.2020 11:36:01

Lowest Channel / 10MHz / 16QAM



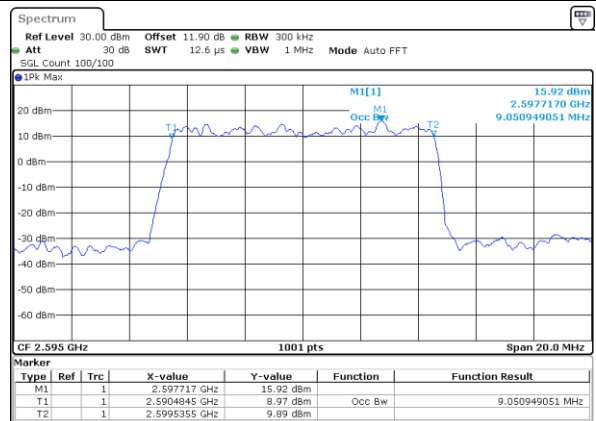
Date: 4.FEB.2020 11:36:15

Middle Channel / 10MHz / QPSK



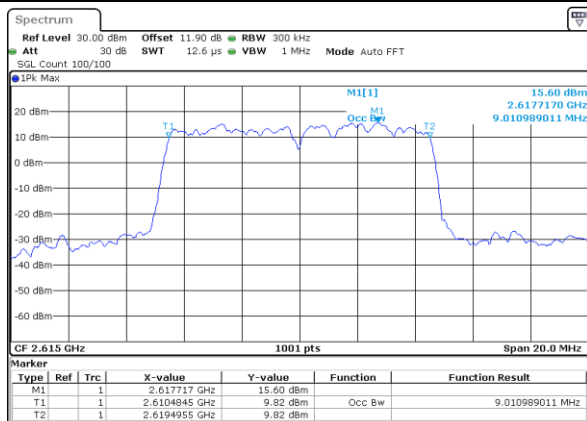
Date: 4.FEB.2020 11:36:57

Middle Channel / 10MHz / 16QAM



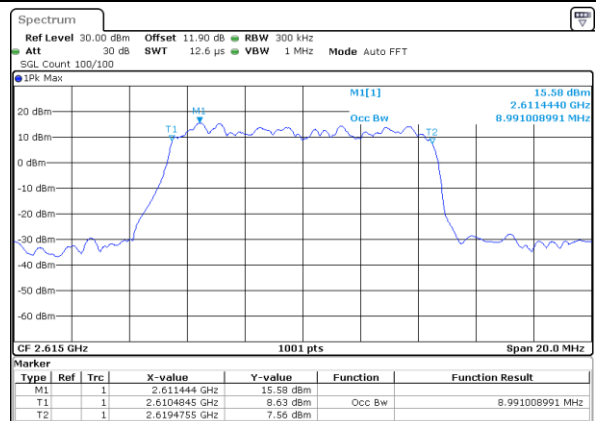
Date: 4.FEB.2020 11:37:10

Highest Channel / 10MHz / QPSK



Date: 4.FEB.2020 11:37:50

Highest Channel / 10MHz / 16QAM

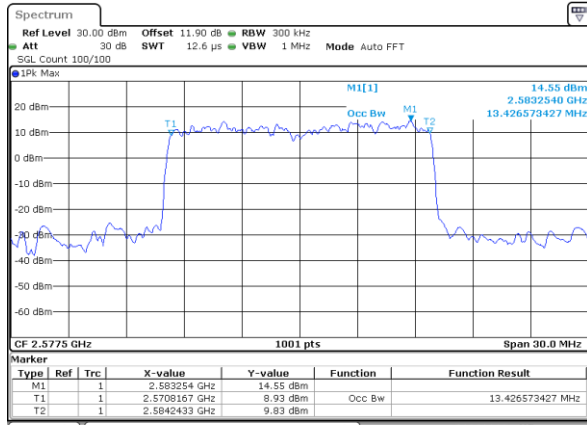


Date: 4.FEB.2020 11:38:04



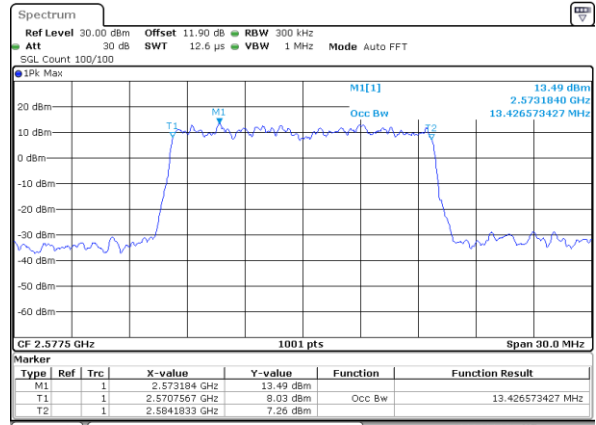
LTE Band 38

Lowest Channel / 15MHz / QPSK



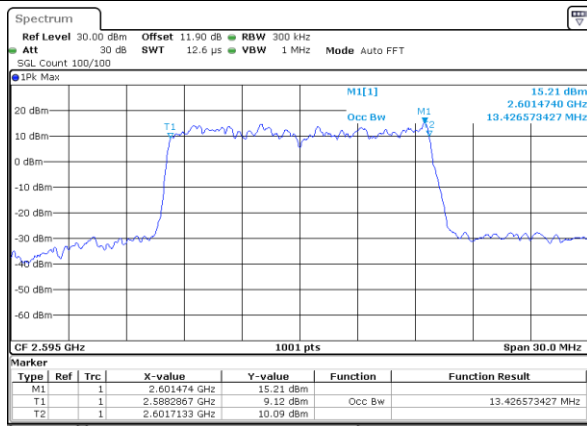
Date: 4.FEB.2020 11:38:46

Lowest Channel / 15MHz / 16QAM



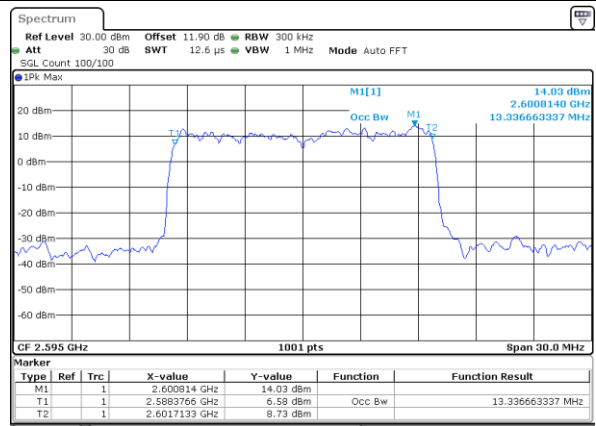
Date: 4.FEB.2020 11:39:00

Middle Channel / 15MHz / QPSK



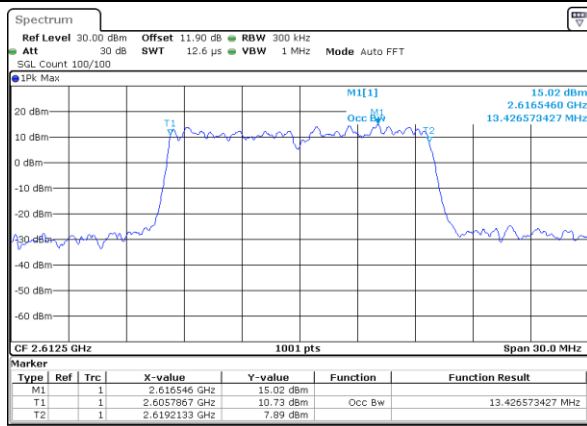
Date: 4.FEB.2020 11:39:41

Middle Channel / 15MHz / 16QAM



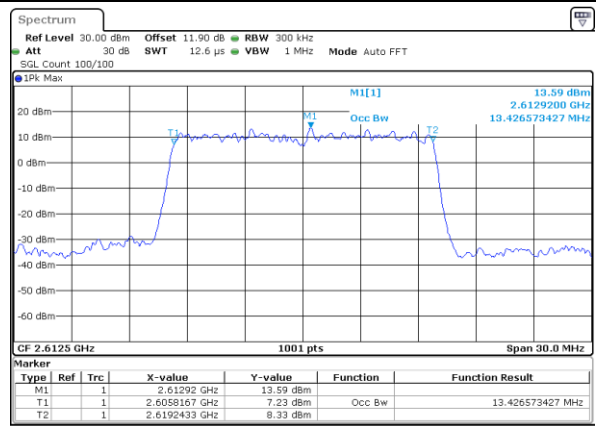
Date: 4.FEB.2020 11:39:54

Highest Channel / 15MHz / QPSK



Date: 4.FEB.2020 11:40:34

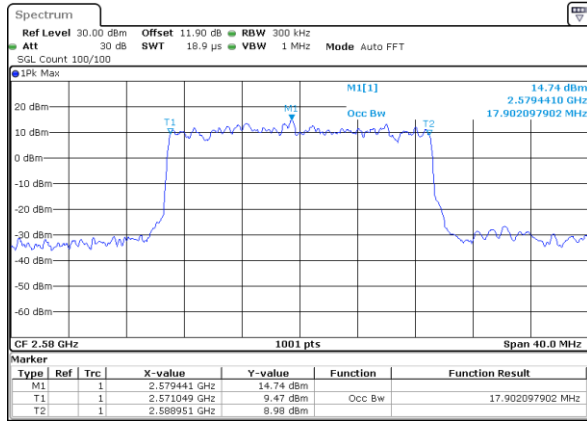
Highest Channel / 15MHz / 16QAM



Date: 4.FEB.2020 11:40:48

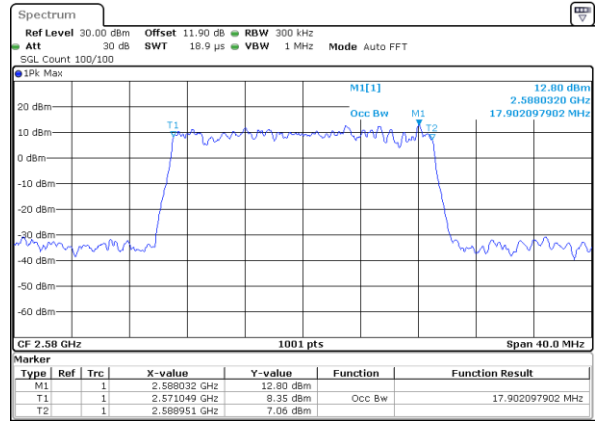
LTE Band 38

Lowest Channel / 20MHz / QPSK



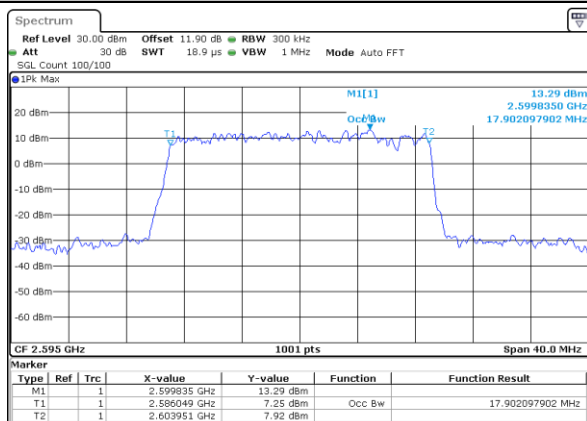
Date: 4.FEB.2020 11:41:30

Lowest Channel / 20MHz / 16QAM



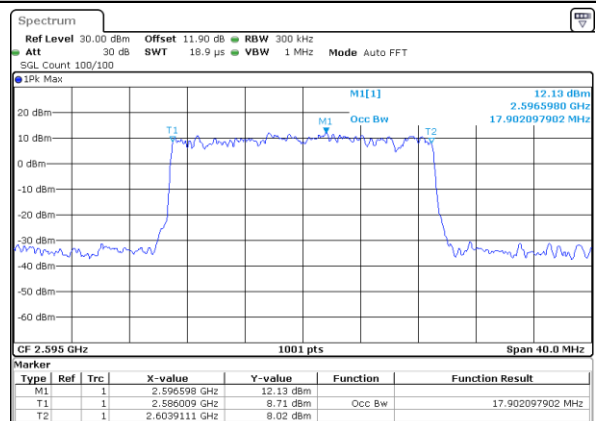
Date: 4.FEB.2020 11:41:44

Middle Channel / 20MHz / QPSK



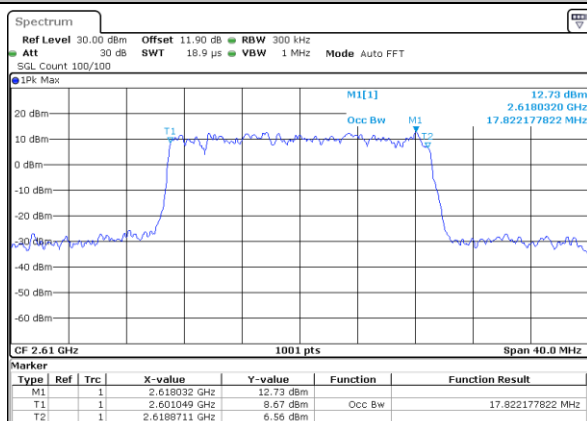
Date: 4.FEB.2020 11:42:26

Middle Channel / 20MHz / 16QAM



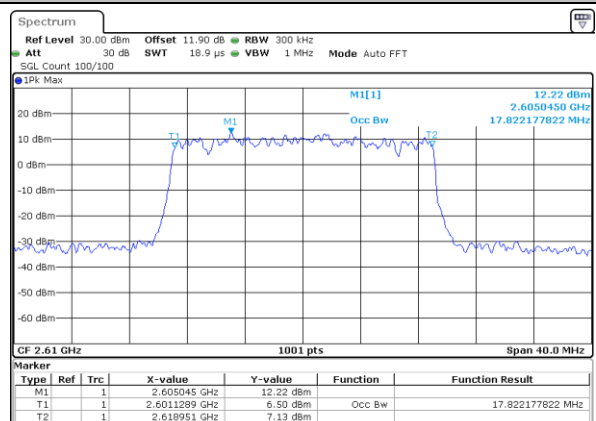
Date: 4.FEB.2020 11:42:39

Highest Channel / 20MHz / QPSK



Date: 4.FEB.2020 11:43:19

Highest Channel / 20MHz / 16QAM

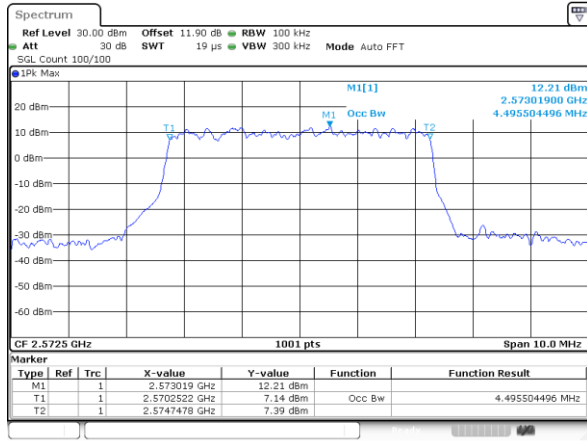


Date: 4.FEB.2020 11:43:33

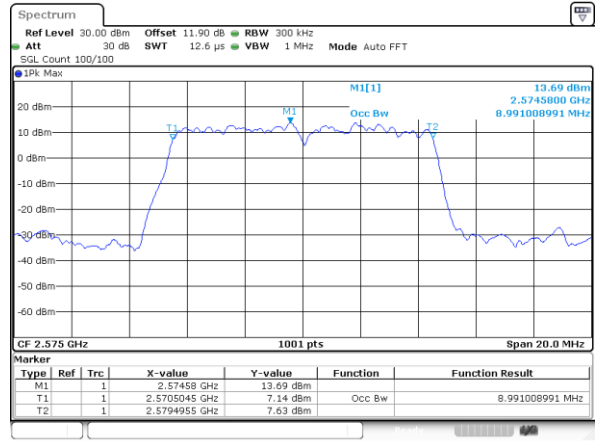


LTE Band 38

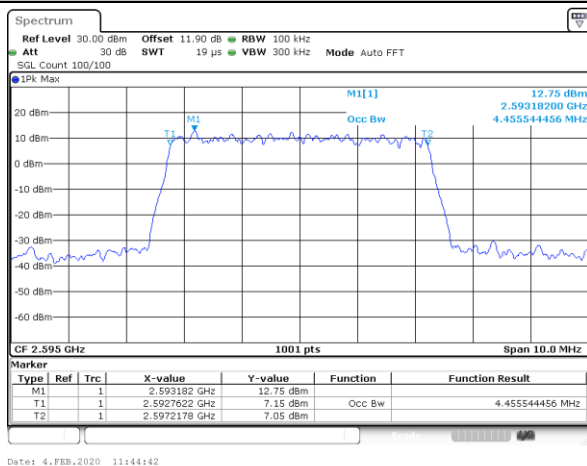
Lowest Channel / 5MHz / 64QAM



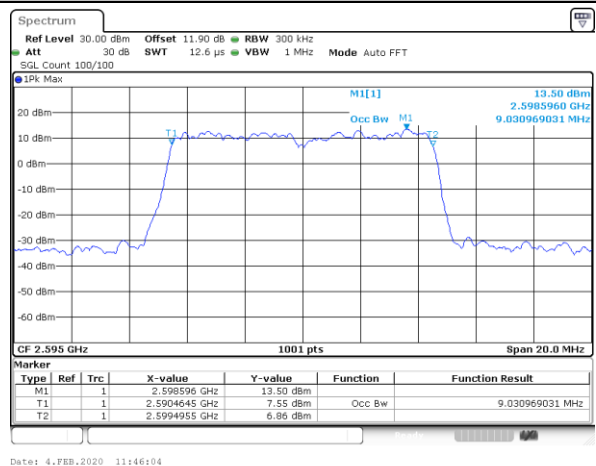
Lowest Channel / 10MHz / 64QAM



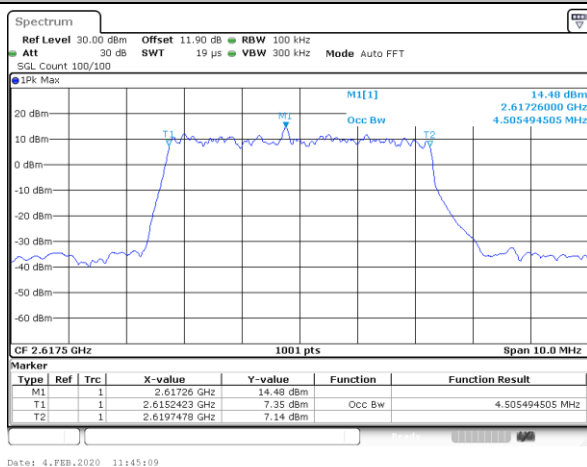
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

