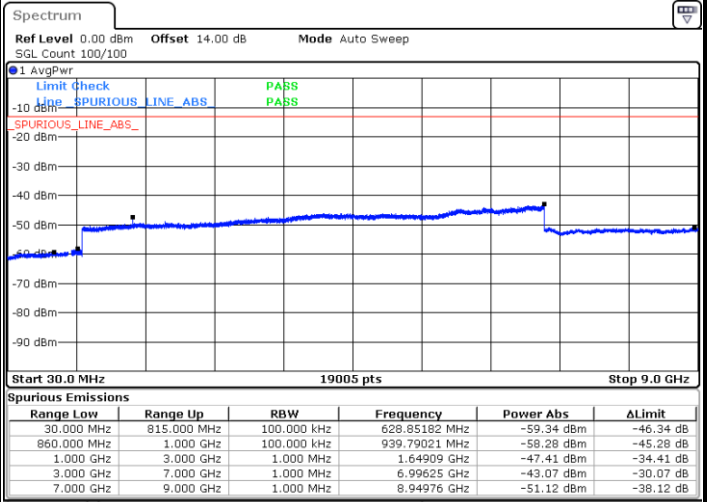
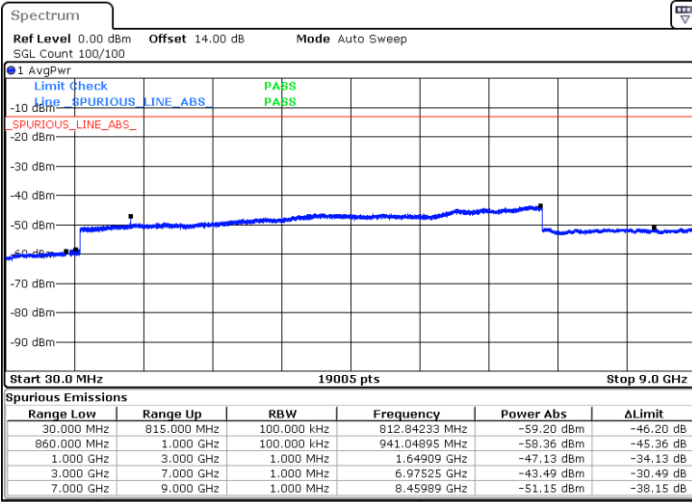




LTE Band 26 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

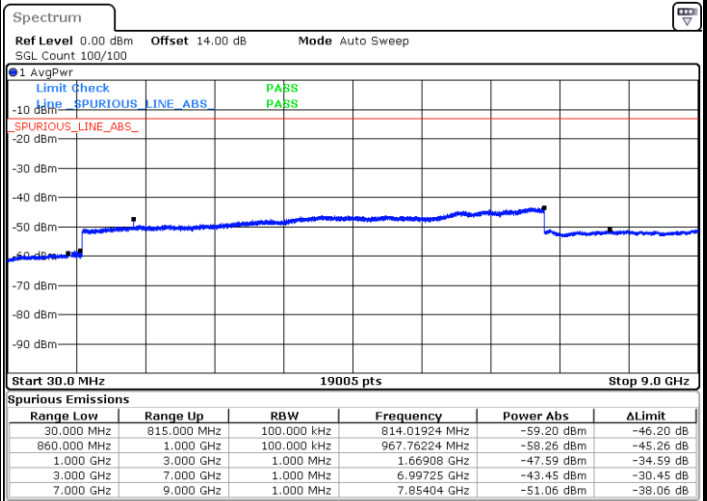
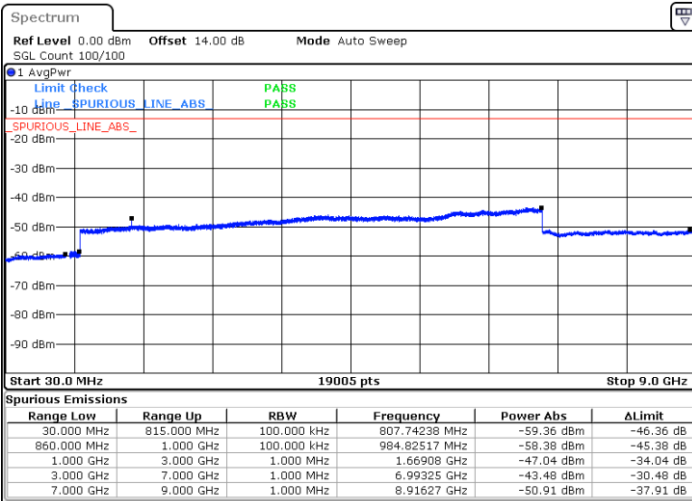


Date: 18.DEC.2021 01:47:34

Date: 18.DEC.2021 01:48:48

Middle Channel / QPSK

Middle Channel / 16QAM



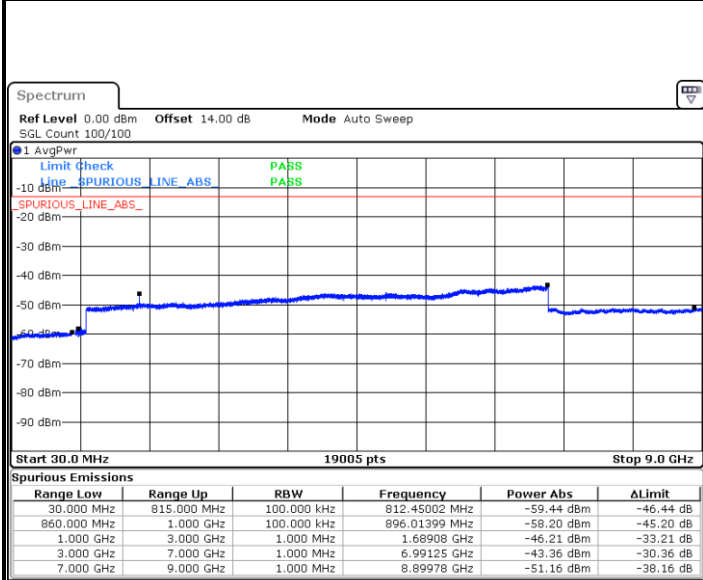
Date: 18.DEC.2021 01:50:46

Date: 18.DEC.2021 01:52:00



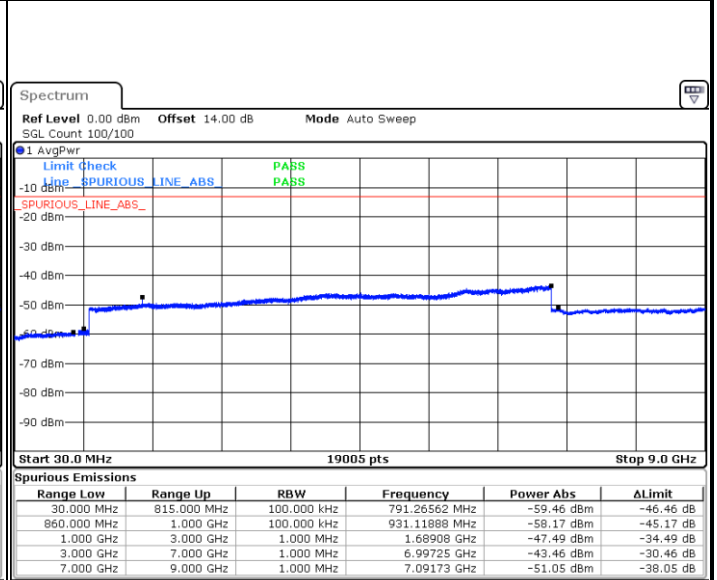
LTE Band 26 / 5MHz

Highest Channel / QPSK



Date: 18.DEC.2021 02:01:13

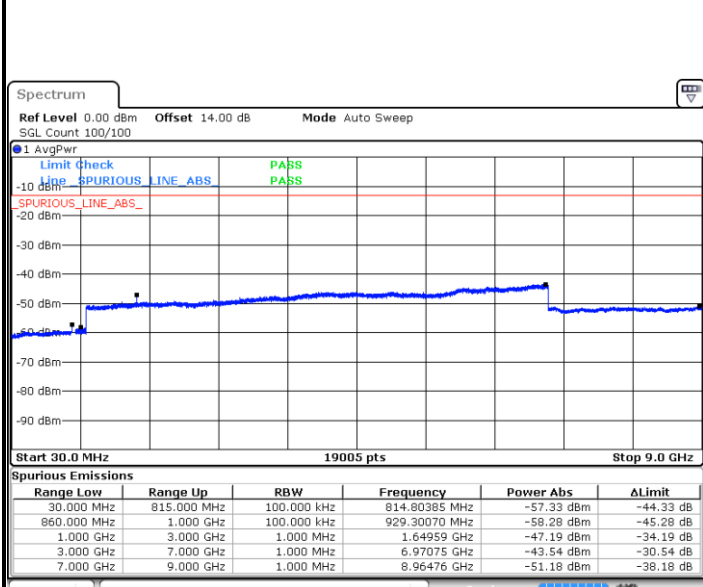
Highest Channel / 16QAM



Date: 18.DEC.2021 02:02:27

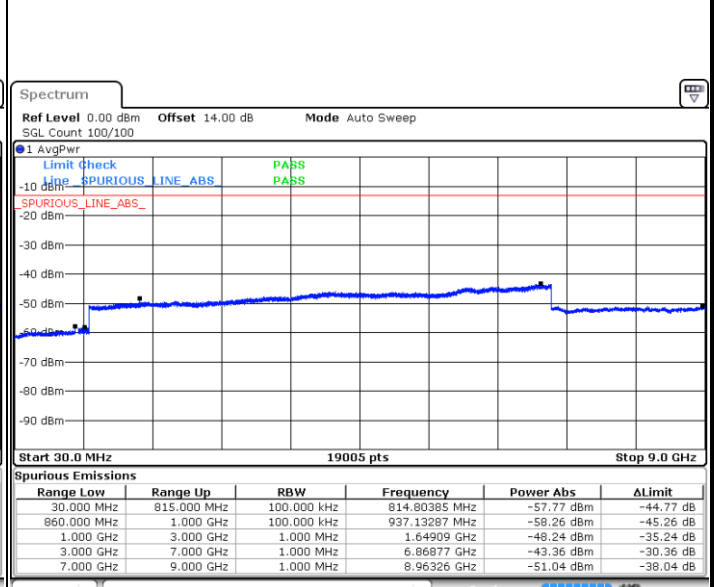
LTE Band 26 / 10MHz

Lowest Channel / QPSK



Date: 18.DEC.2021 02:11:40

Lowest Channel / 16QAM

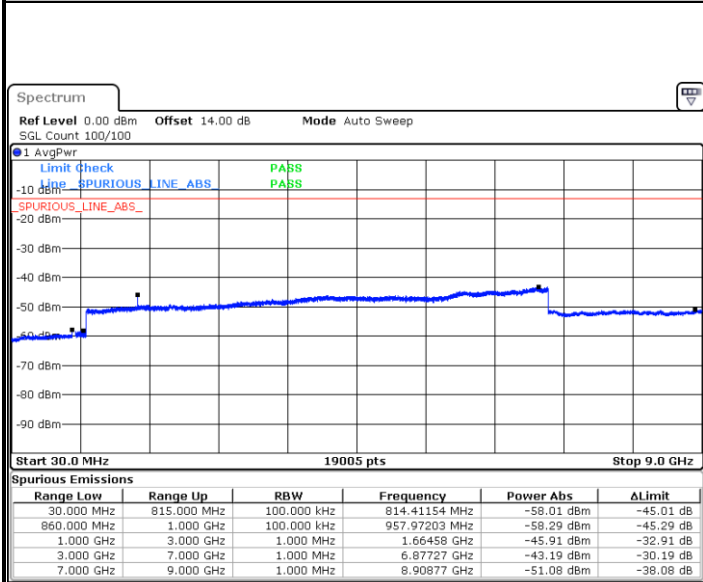


Date: 18.DEC.2021 02:12:54



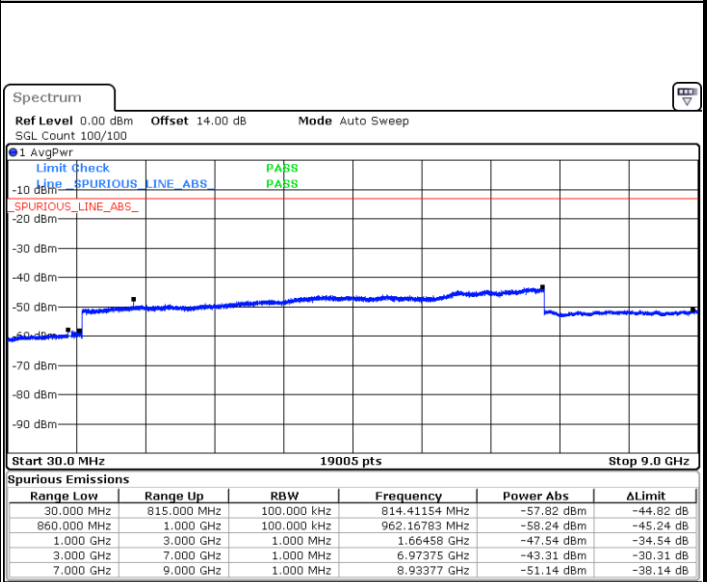
LTE Band 26 / 10MHz

Middle Channel / QPSK



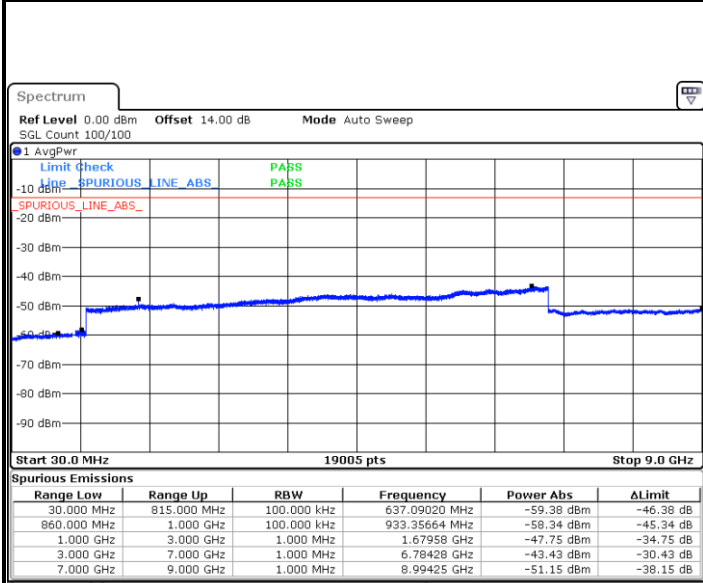
Date: 18.DEC.2021 02:14:51

Middle Channel / 16QAM



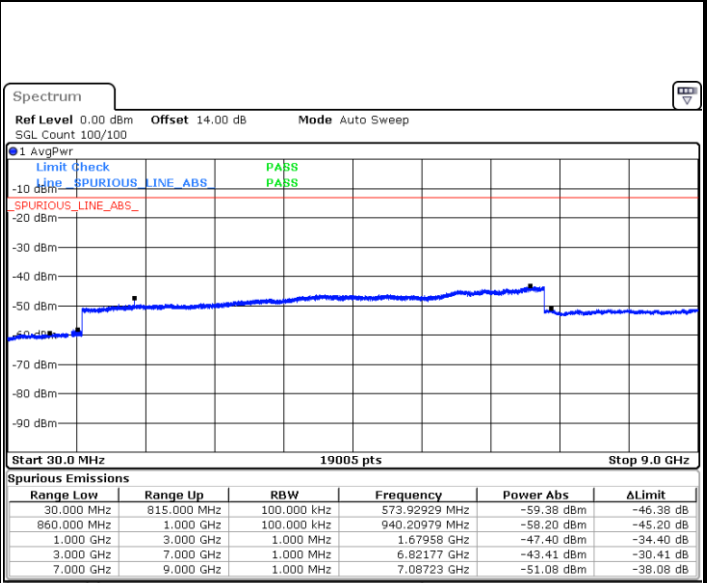
Date: 18.DEC.2021 02:16:05

Highest Channel / QPSK



Date: 18.DEC.2021 02:25:18

Highest Channel / 16QAM



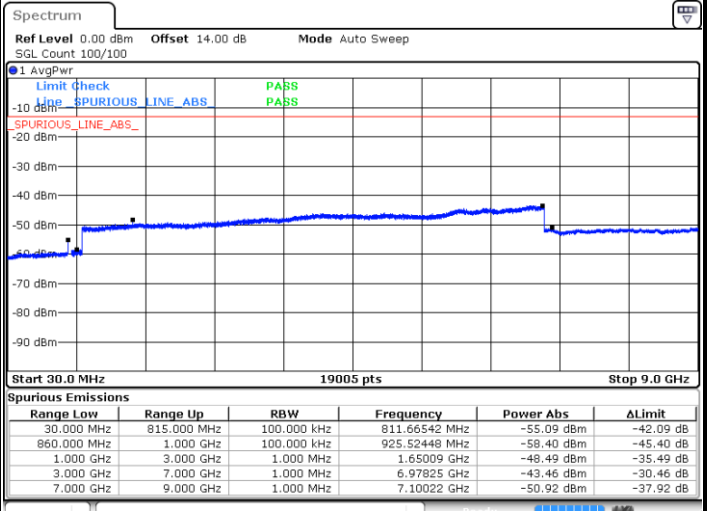
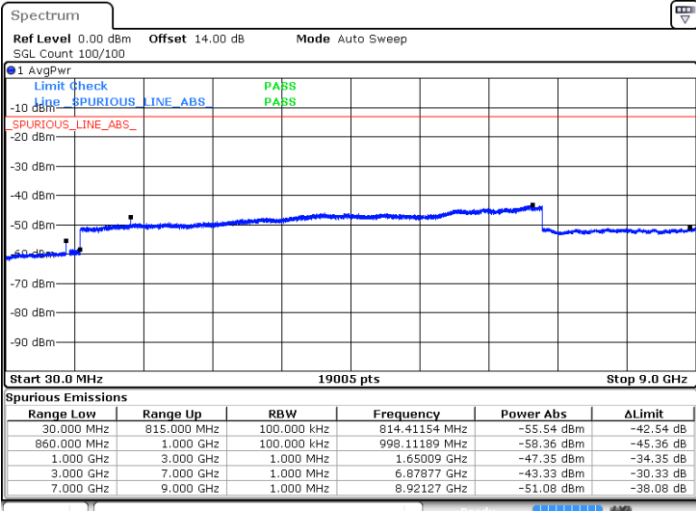
Date: 18.DEC.2021 02:26:32



LTE Band 26 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

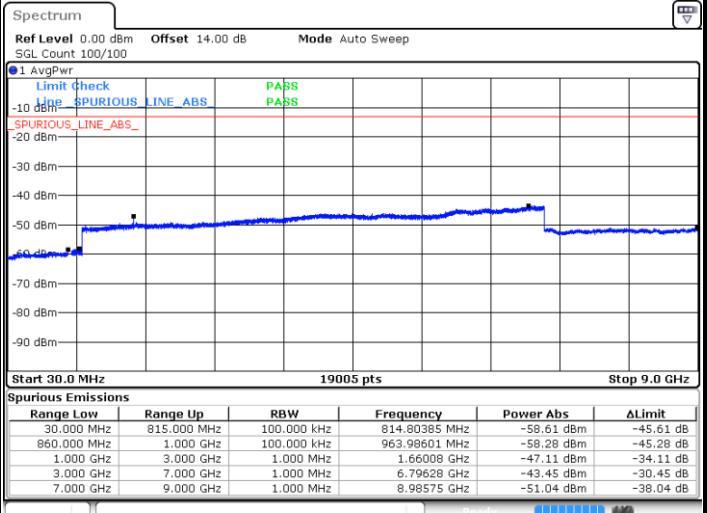
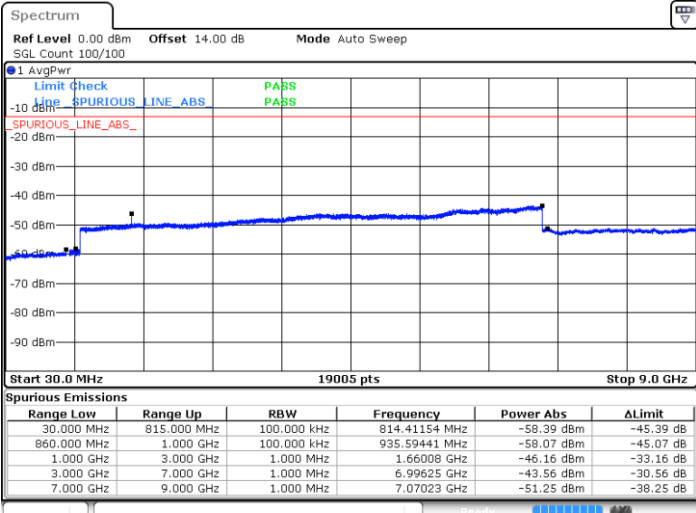


Date: 18.DEC.2021 02:35:45

Date: 18.DEC.2021 02:37:00

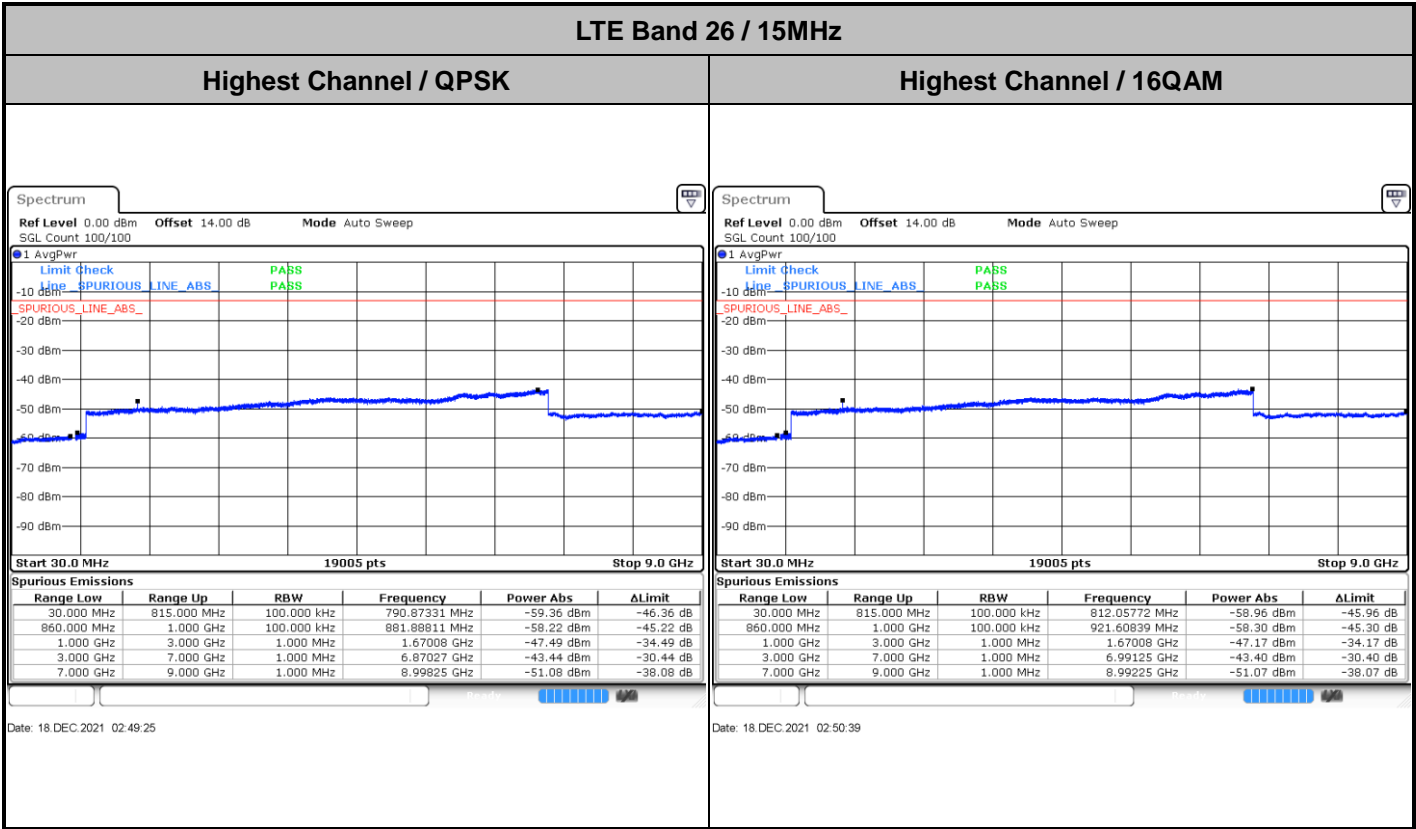
Middle Channel / QPSK

Middle Channel / 16QAM



Date: 18.DEC.2021 02:38:57

Date: 18.DEC.2021 02:40:11

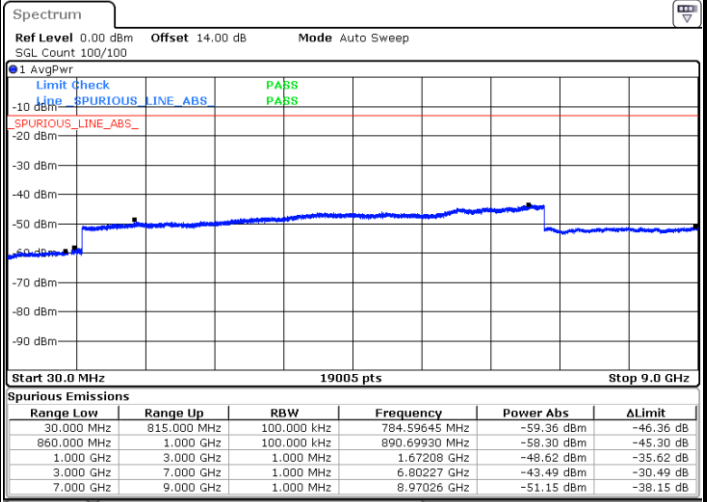
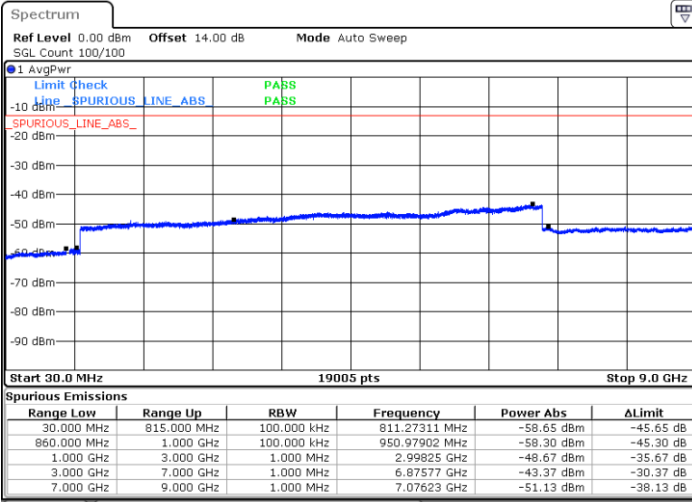




LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

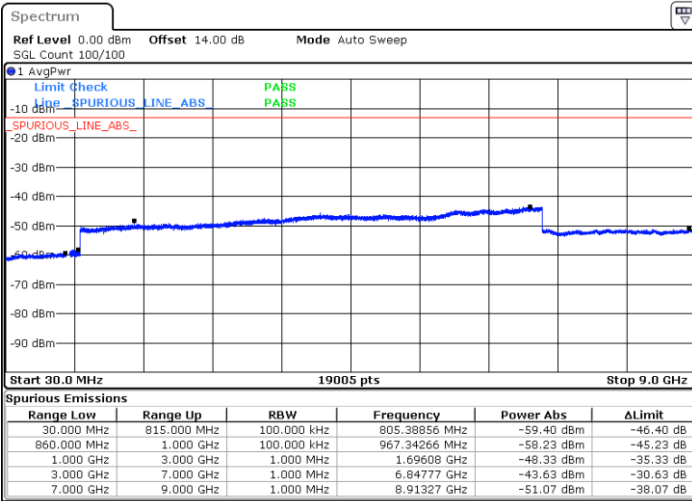


Date: 19.DEC.2021 13:53:20

Date: 19.DEC.2021 13:55:10

Highest Channel / 64QAM

N/A



Date: 19.DEC.2021 14:00:46

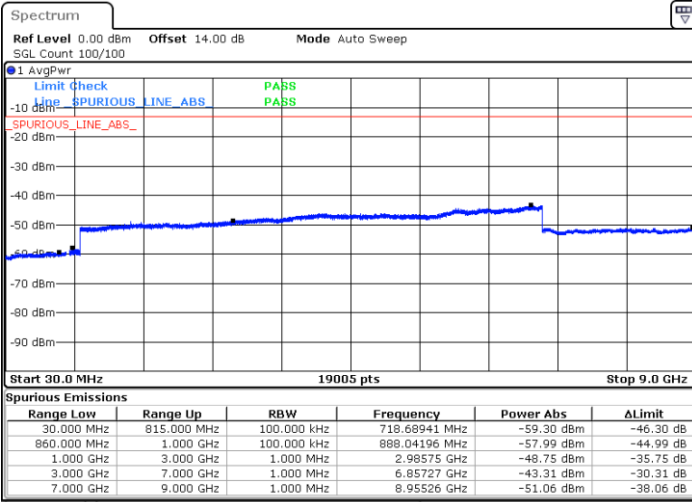
N/A



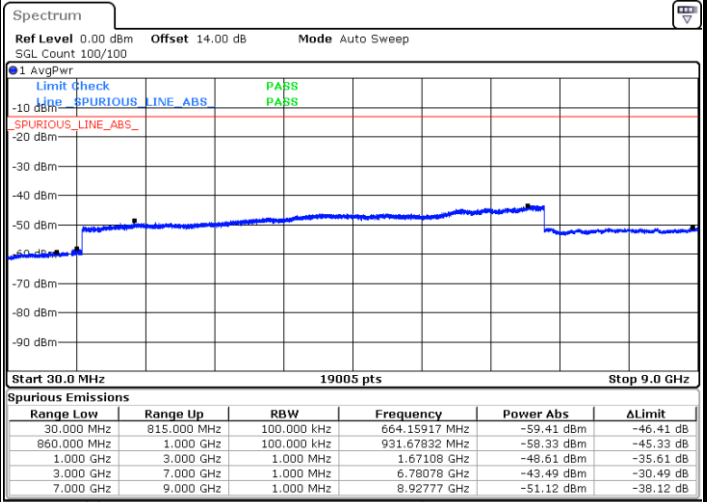
LTE Band 26 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



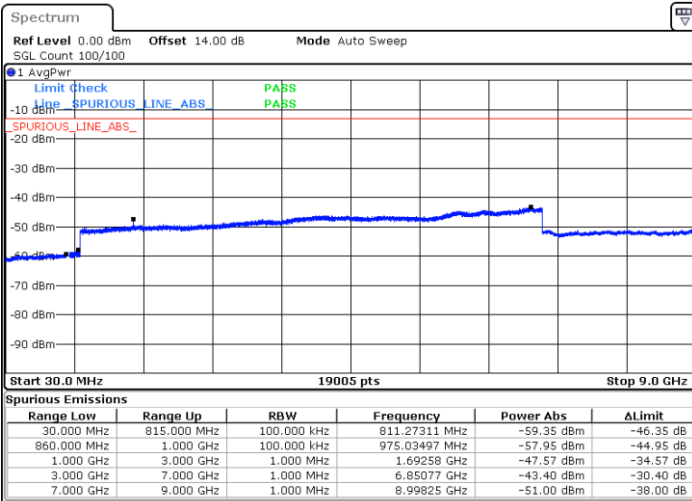
Date: 18.DEC.2021 00:31:17



Date: 18.DEC.2021 00:32:54

Highest Channel / 64QAM

N/A



Date: 18.DEC.2021 00:38:07

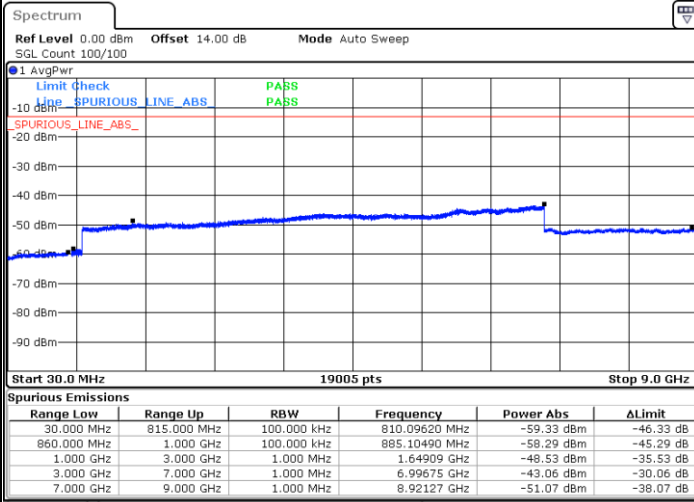
N/A



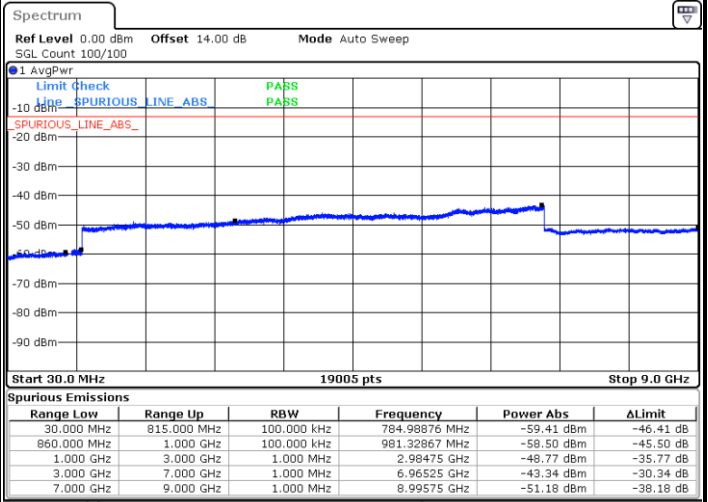
LTE Band 26 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



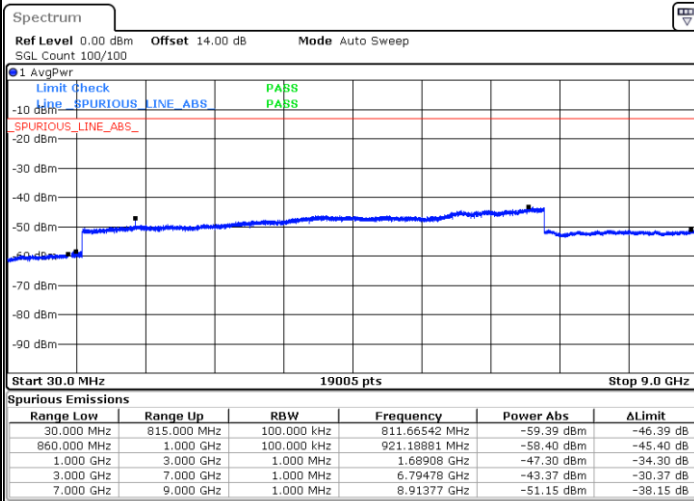
Date: 18.DEC.2021 00:43:20



Date: 18.DEC.2021 00:44:56

Highest Channel / 64QAM

N/A



Date: 18.DEC.2021 00:50:10

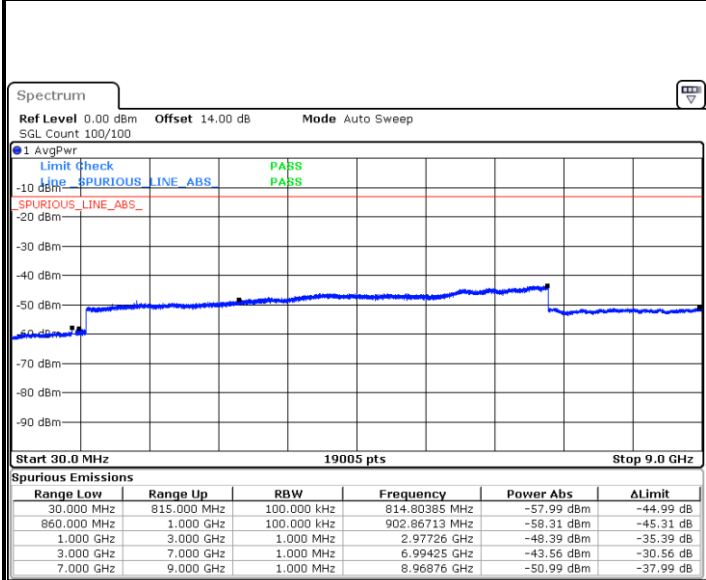
N/A





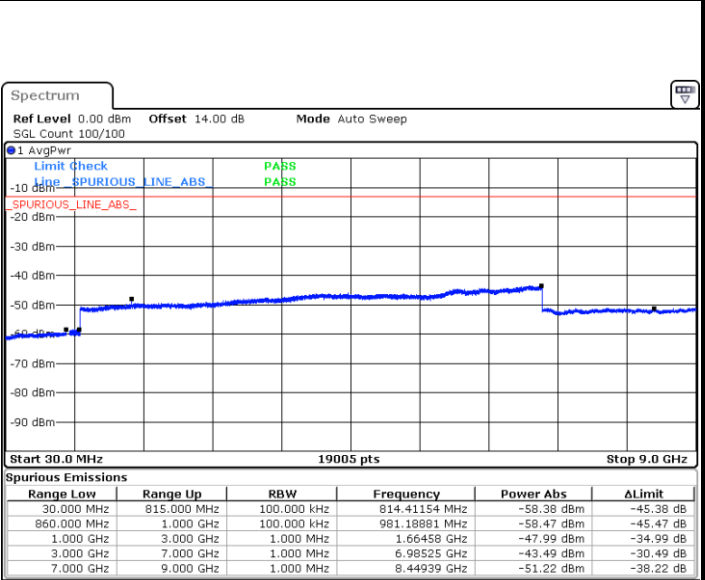
**LTE Band 26 / 10MHz**

**Lowest Channel / 64QAM**



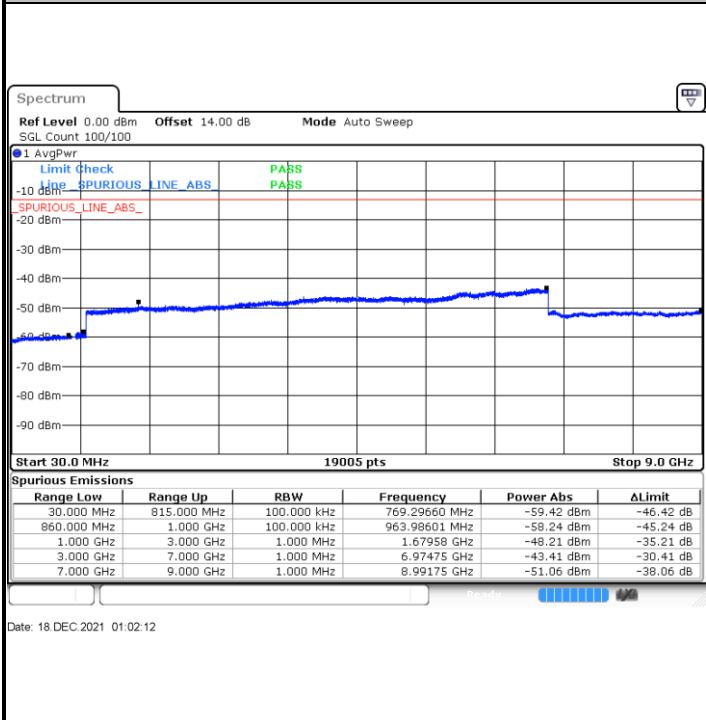
Date: 18.DEC.2021 00:55:23

**Middle Channel / 64QAM**



Date: 18.DEC.2021 00:56:59

**Highest Channel / 64QAM**



Date: 18.DEC.2021 01:02:12

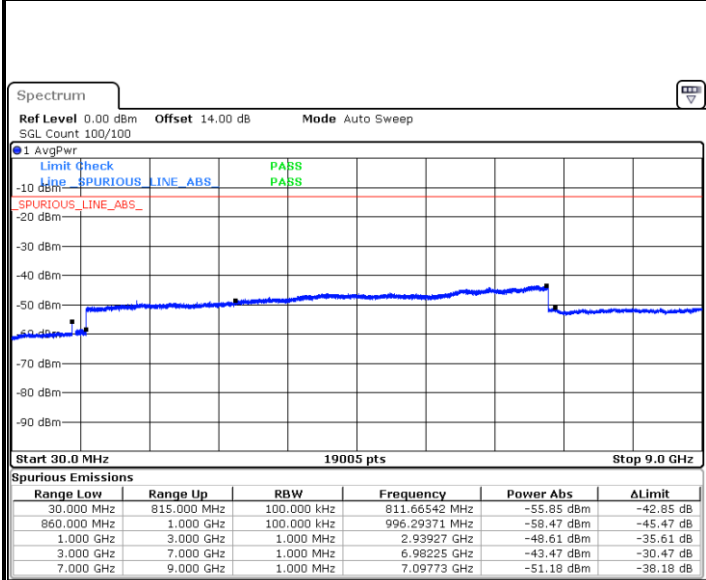
**N/A**

**N/A**



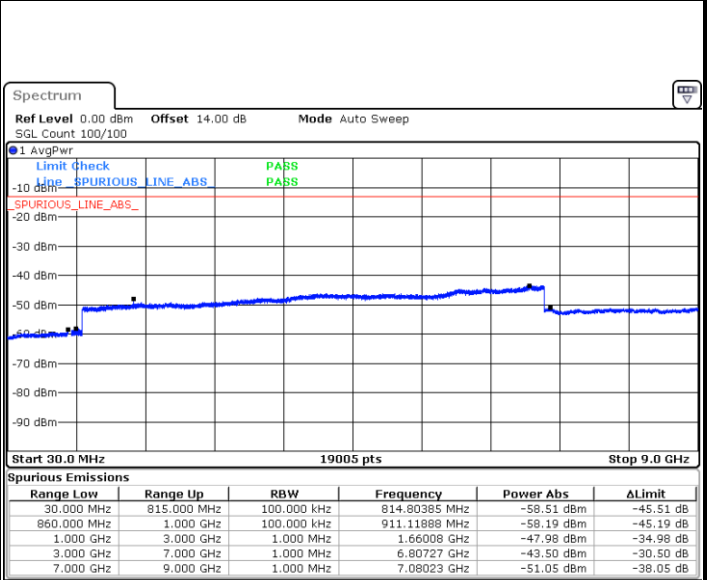
**LTE Band 26 / 15MHz**

**Lowest Channel / 64QAM**



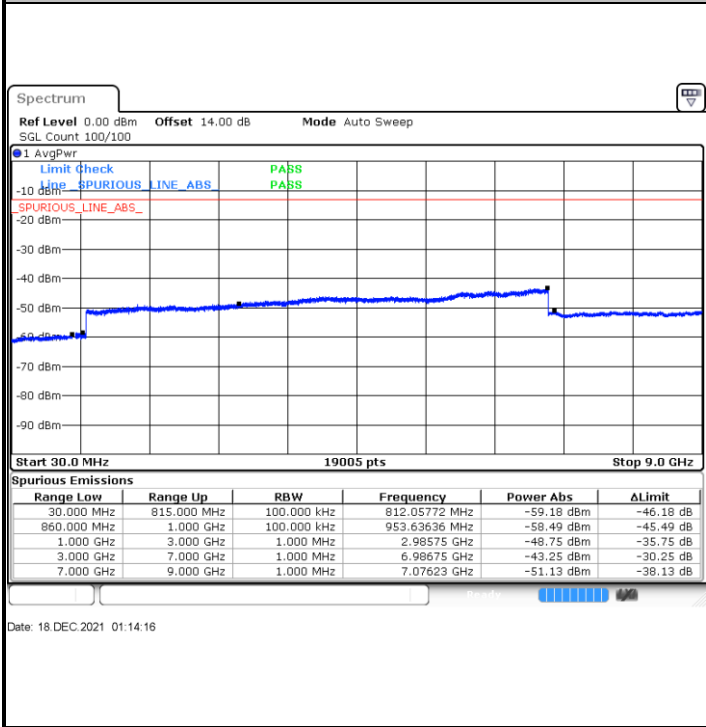
Date: 18.DEC.2021 01:07:26

**Middle Channel / 64QAM**



Date: 18.DEC.2021 01:09:02

**Highest Channel / 64QAM**



Date: 18.DEC.2021 01:14:16

**N/A**

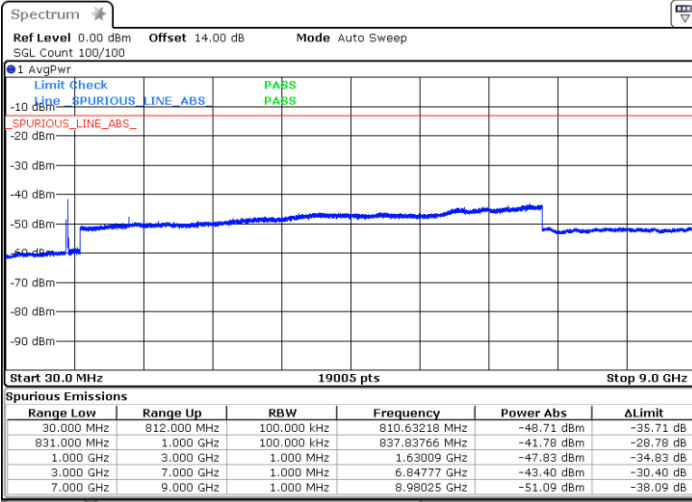
**N/A**



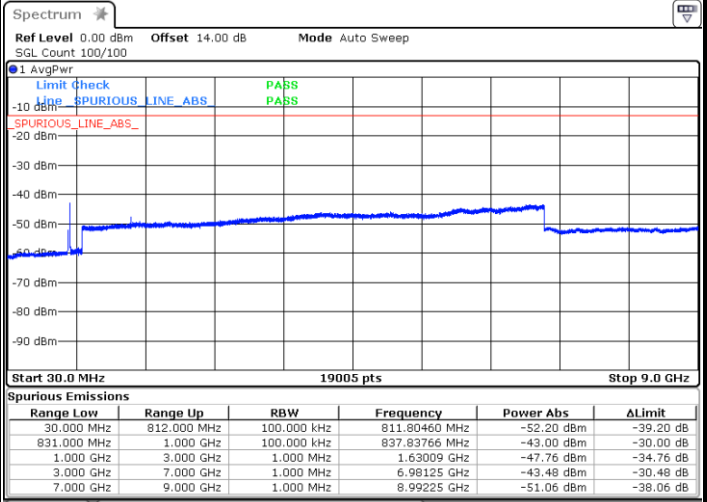
LTE Band 26 / 15MHz

CH26765 / QPSK

CH26765 / 16QAM



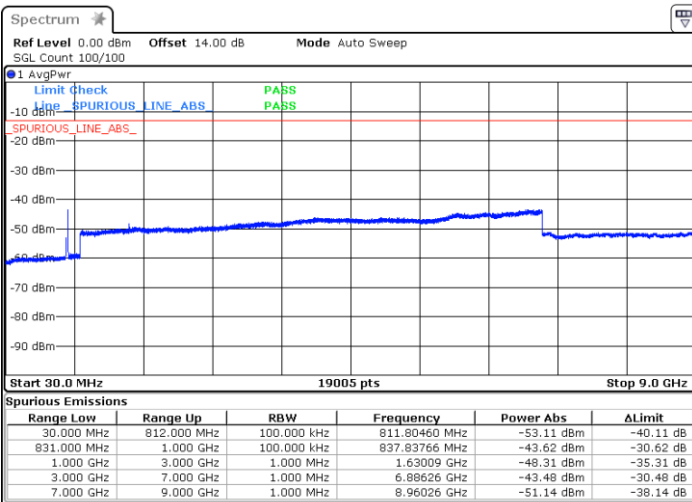
Date: 19.DEC.2021 12:57:22



Date: 19.DEC.2021 12:58:25

CH26765 / 64QAM

N/A



Date: 19.DEC.2021 12:59:49

N/A



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	0.0011	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0042	
0	Normal Voltage	0.0066	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0062	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 38

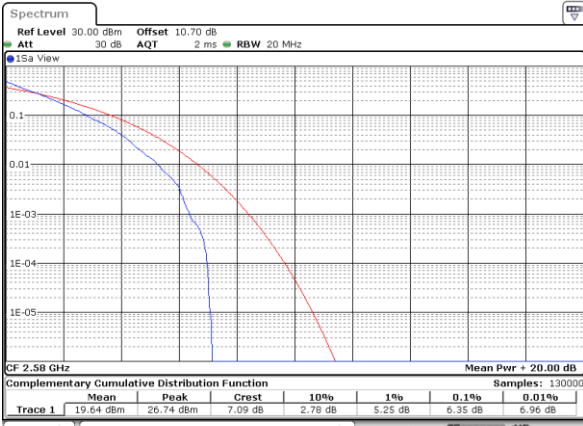
## Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.35	5.74	6.90	6.52	PASS
Middle CH	6.06	5.68	7.30	6.52	
Highest CH	5.68	5.65	7.30	6.49	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.96	6.58	-	-	PASS
Middle CH	6.64	6.64	-	-	
Highest CH	6.58	6.55	-	-	



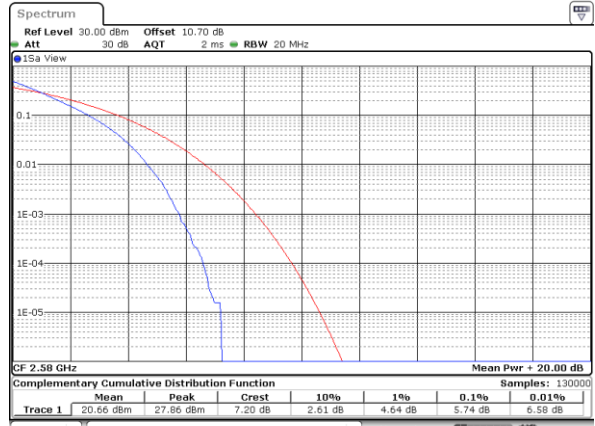
LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



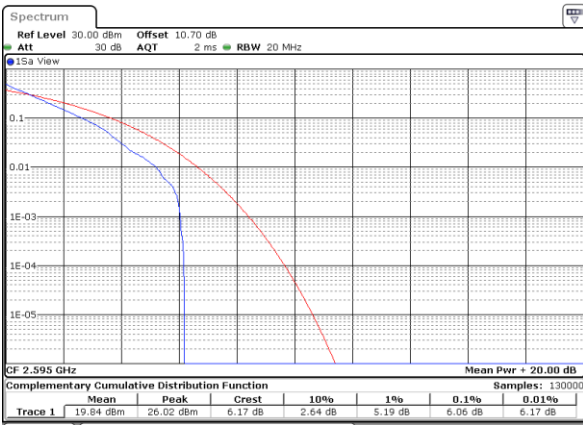
Date: 19\_DEC.2021 09:07:24

Lowest Channel / Full RB



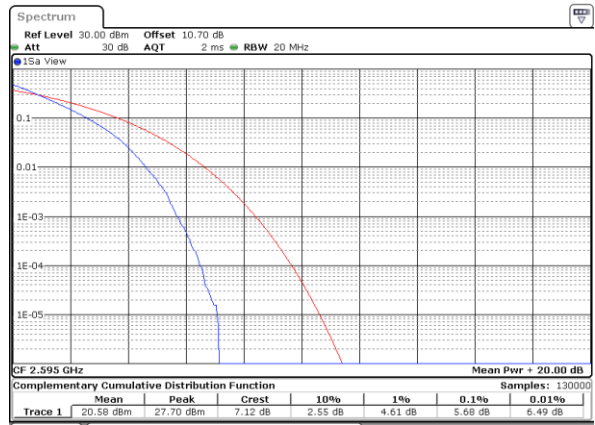
Date: 19\_DEC.2021 09:07:58

Middle Channel / 1RB



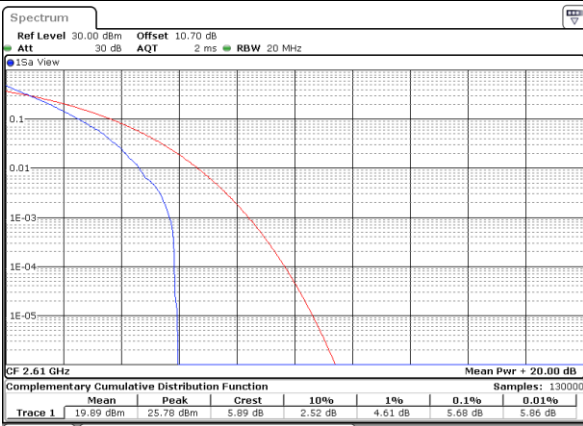
Date: 19\_DEC.2021 09:12:16

Middle Channel / Full RB



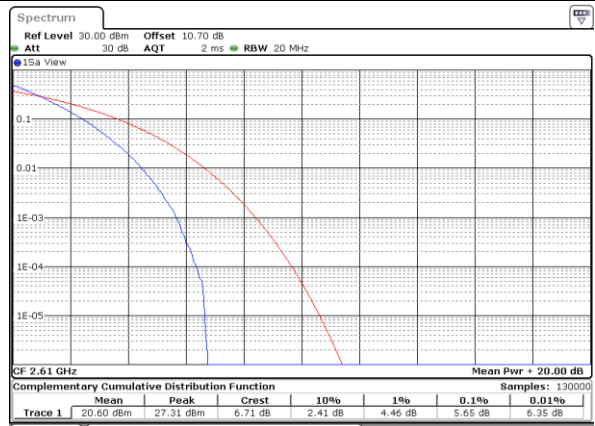
Date: 19\_DEC.2021 09:11:39

Highest Channel / 1RB



Date: 19\_DEC.2021 09:16:48

Highest Channel / Full RB

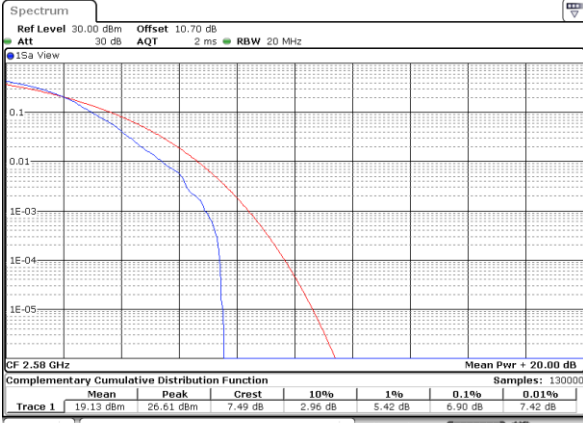


Date: 19\_DEC.2021 09:17:54



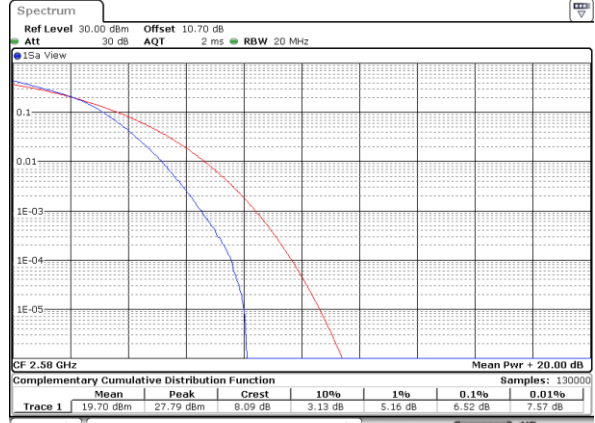
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



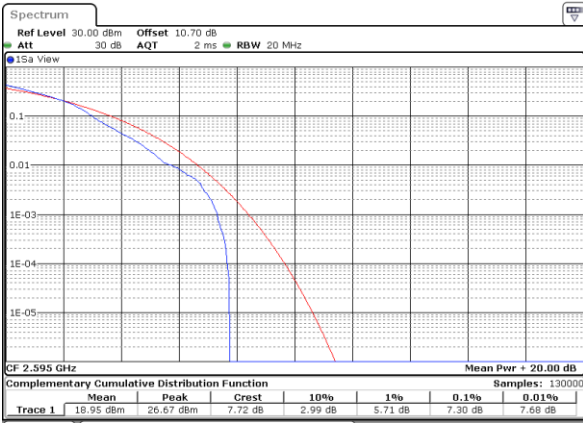
Date: 19\_DEC.2021 09:06:53

Lowest Channel / Full RB



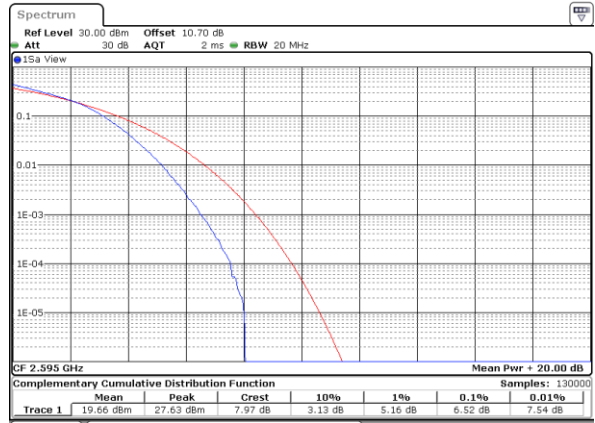
Date: 19\_DEC.2021 09:10:23

Middle Channel / 1RB



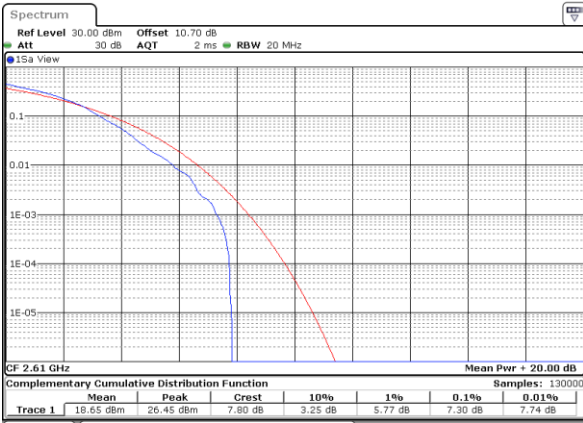
Date: 19\_DEC.2021 09:12:55

Middle Channel / Full RB



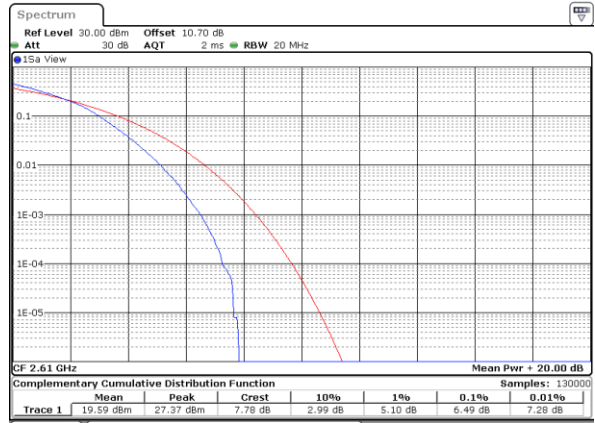
Date: 19\_DEC.2021 09:11:13

Highest Channel / 1RB



Date: 19\_DEC.2021 09:15:54

Highest Channel / Full RB

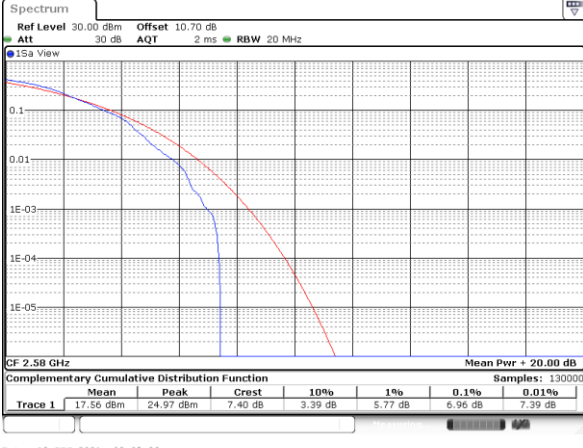


Date: 19\_DEC.2021 09:18:34



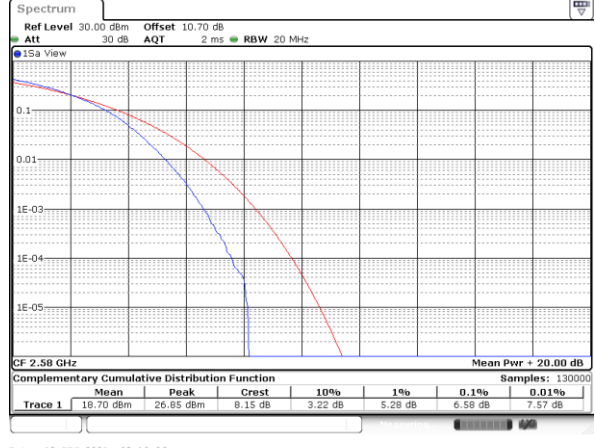
LTE Band 38 / 20MHz / 64QAM

Lowest Channel / 1RB



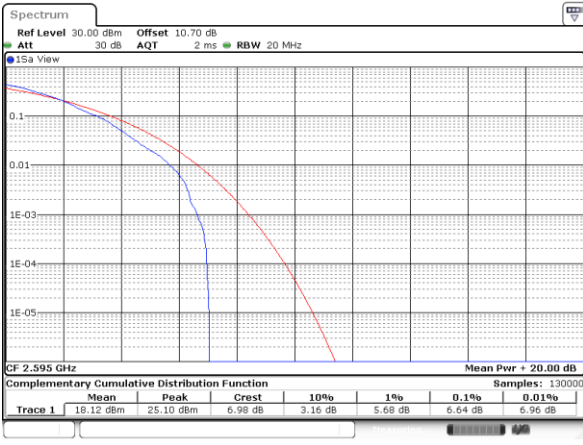
Date: 19\_DEC.2021 09:05:38

Lowest Channel / Full RB



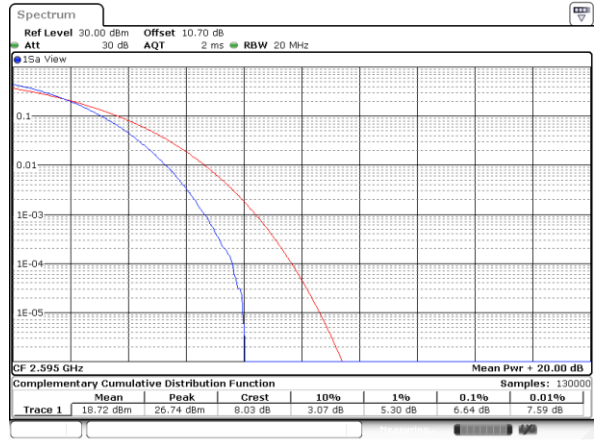
Date: 19\_DEC.2021 09:10:06

Middle Channel / 1RB



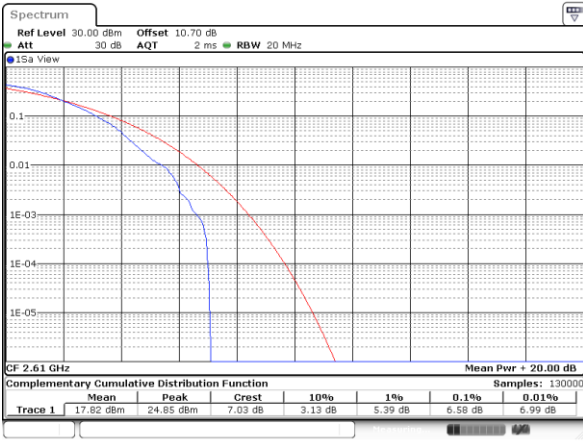
Date: 19\_DEC.2021 09:14:27

Middle Channel / Full RB



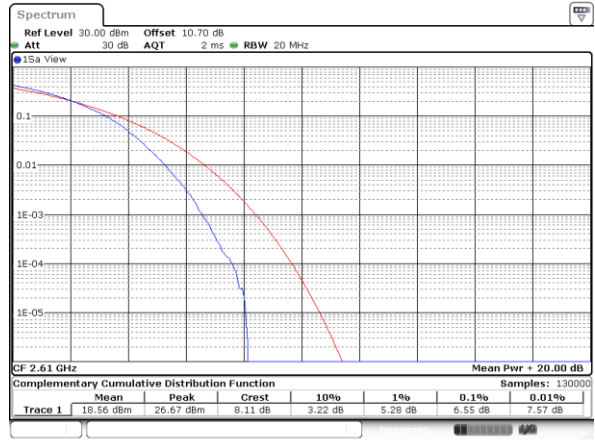
Date: 19\_DEC.2021 09:10:40

Highest Channel / 1RB



Date: 19\_DEC.2021 09:15:16

Highest Channel / Full RB



Date: 19\_DEC.2021 09:19:13





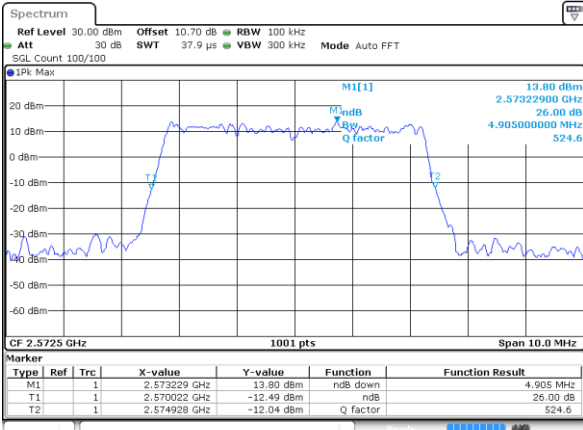
26dB Bandwidth

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	-	-	-	-	4.91	4.91	9.61	9.71	14.33	14.12	18.82	18.90
Middle CH	-	-	-	-	4.91	4.73	9.81	9.65	14.12	14.63	18.74	18.62
Highest CH	-	-	-	-	4.74	4.88	9.75	9.71	14.15	14.33	18.66	18.62
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.75	-	9.73	-	14.21	-	18.62	-
Middle CH	-	-	-	-	4.72	-	9.79	-	14.21	-	18.62	-
Highest CH	-	-	-	-	4.87	-	9.63	-	14.54	-	18.70	-



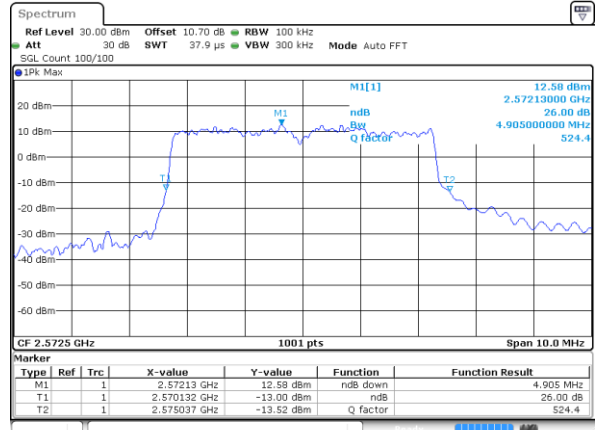
LTE Band 38

Lowest Channel / 5MHz / QPSK



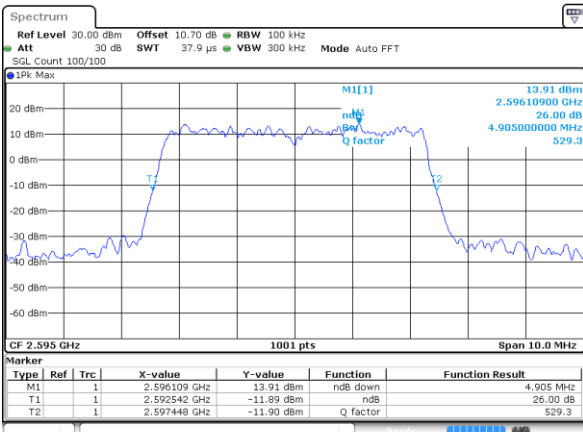
Date: 18 DEC 2021 11:54:00

Lowest Channel / 5MHz / 16QAM



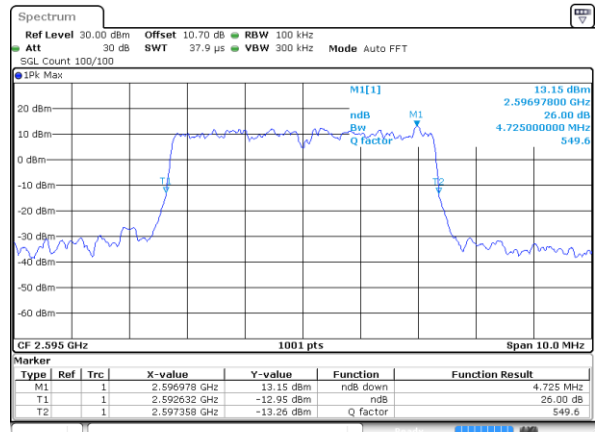
Date: 18 DEC 2021 11:54:25

Middle Channel / 5MHz / QPSK



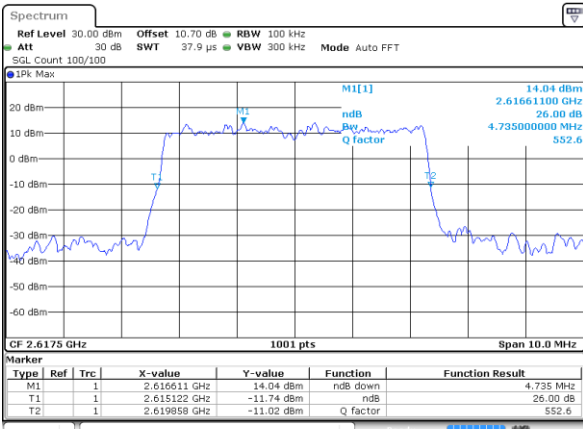
Date: 18 DEC 2021 11:55:38

Middle Channel / 5MHz / 16QAM



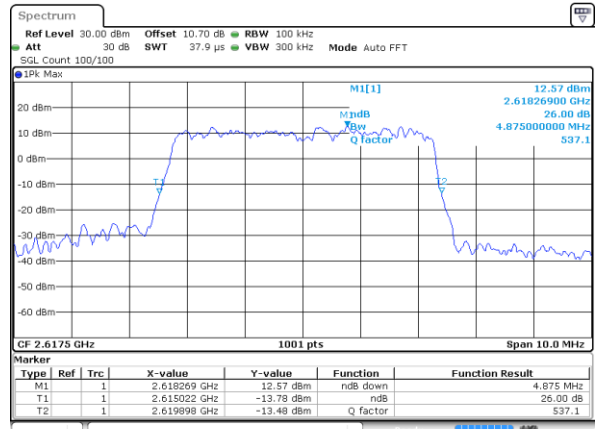
Date: 18 DEC 2021 11:56:02

Highest Channel / 5MHz / QPSK



Date: 18 DEC 2021 11:57:16

Highest Channel / 5MHz / 16QAM

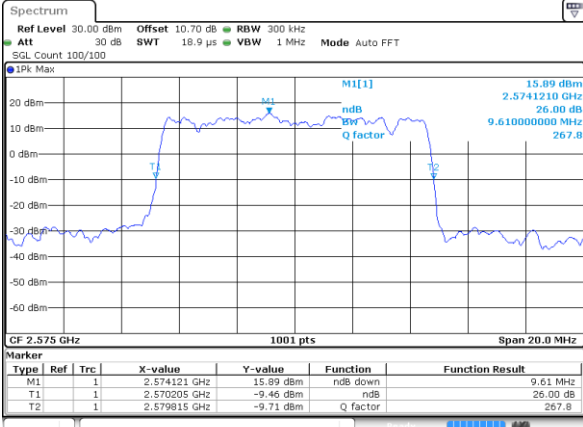


Date: 18 DEC 2021 11:57:40



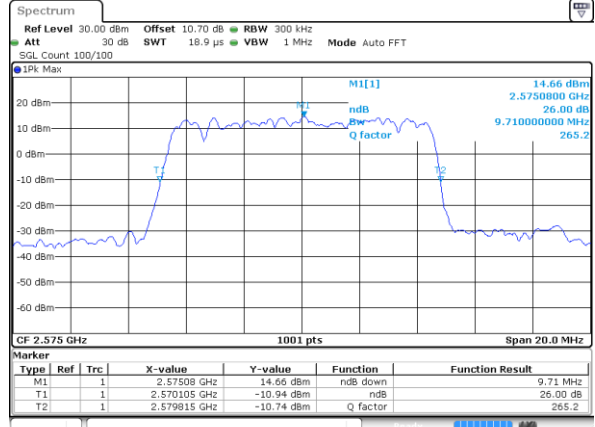
LTE Band 38

Lowest Channel / 10MHz / QPSK



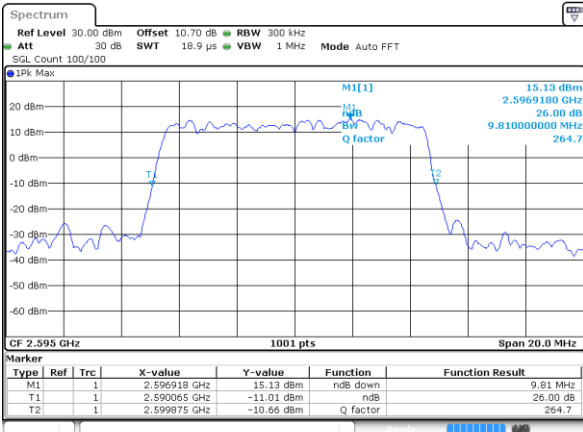
Date: 18 DEC 2021 11:58:55

Lowest Channel / 10MHz / 16QAM



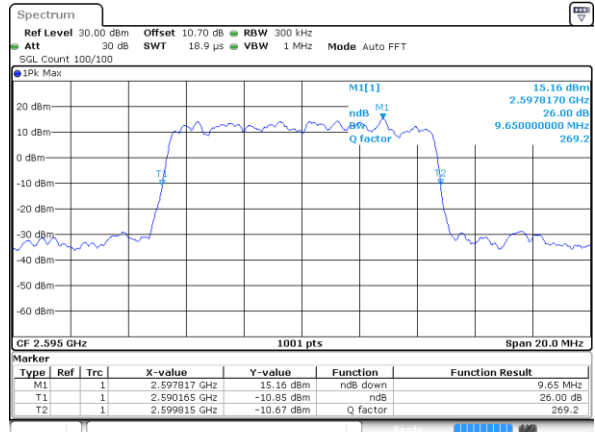
Date: 18 DEC 2021 11:59:20

Middle Channel / 10MHz / QPSK



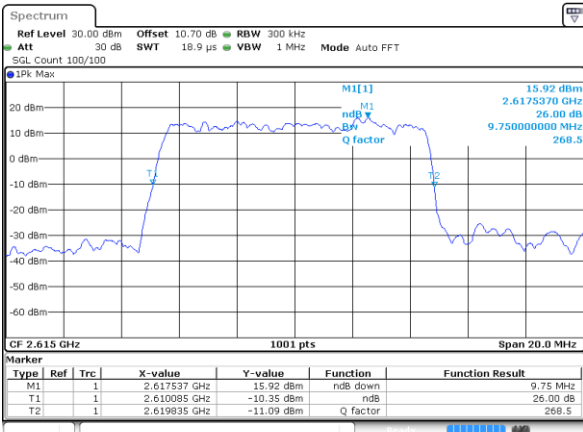
Date: 18 DEC 2021 12:00:33

Middle Channel / 10MHz / 16QAM



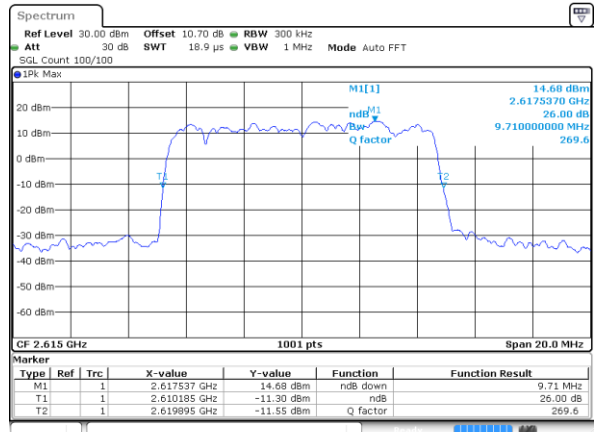
Date: 18 DEC 2021 12:00:57

Highest Channel / 10MHz / QPSK



Date: 18 DEC 2021 12:02:11

Highest Channel / 10MHz / 16QAM

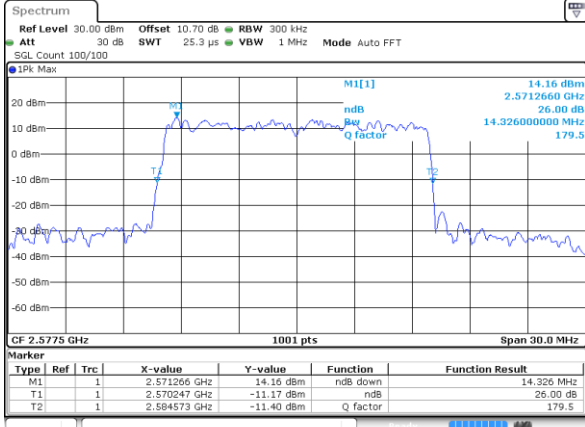


Date: 18 DEC 2021 12:02:35



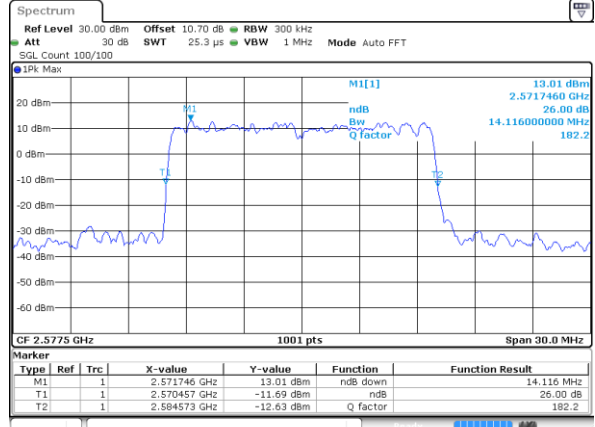
LTE Band 38

Lowest Channel / 15MHz / QPSK



Date: 18 DEC 2021 12:03:50

Lowest Channel / 15MHz / 16QAM



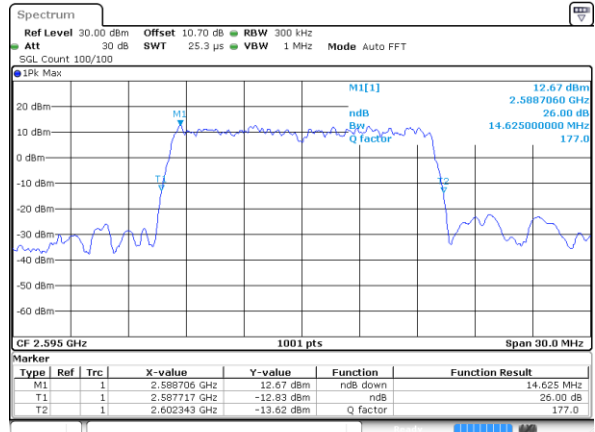
Date: 18 DEC 2021 12:04:15

Middle Channel / 15MHz / QPSK



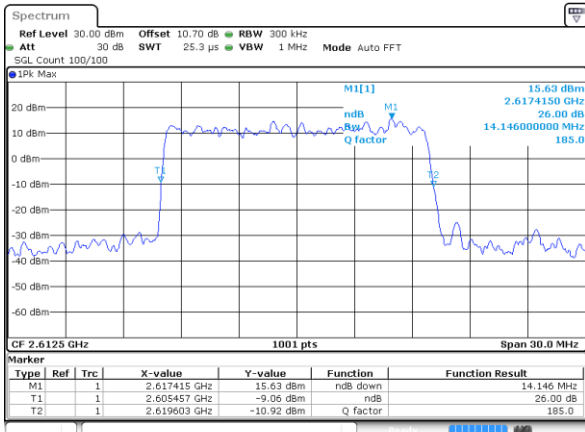
Date: 18 DEC 2021 12:05:28

Middle Channel / 15MHz / 16QAM



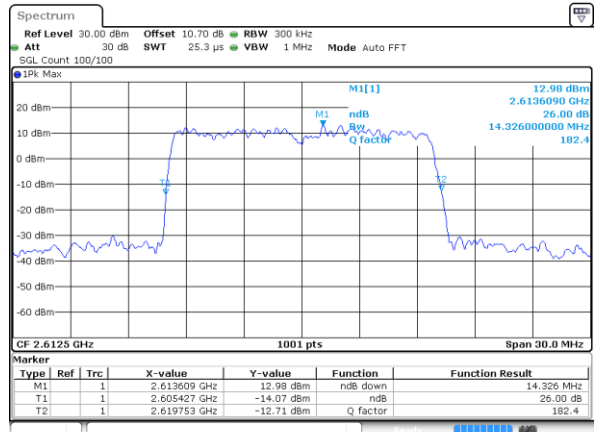
Date: 18 DEC 2021 12:05:52

Highest Channel / 15MHz / QPSK



Date: 18 DEC 2021 12:07:06

Highest Channel / 15MHz / 16QAM

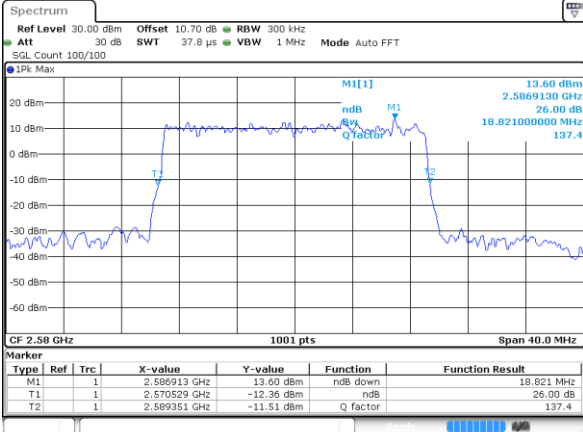


Date: 18 DEC 2021 12:07:31



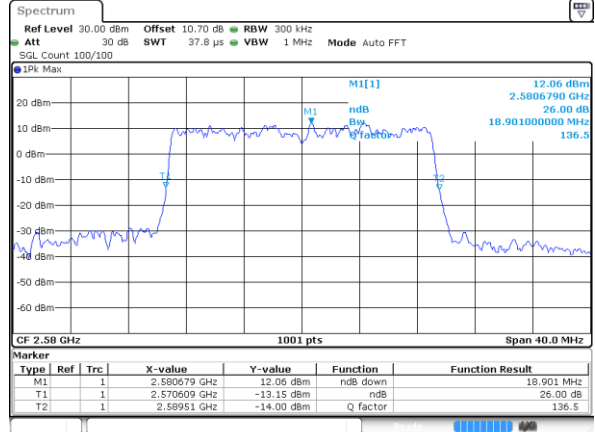
LTE Band 38

Lowest Channel / 20MHz / QPSK



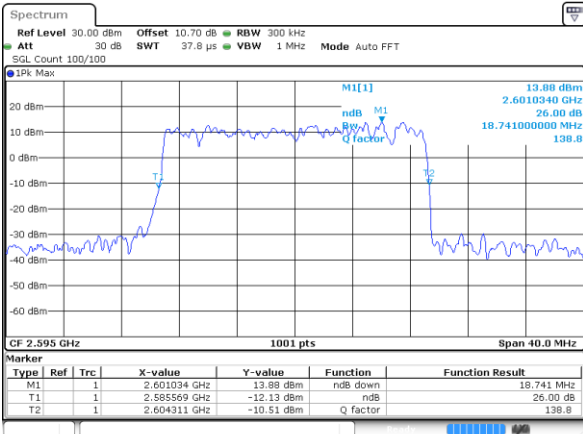
Date: 18 DEC 2021 12:08:46

Lowest Channel / 20MHz / 16QAM



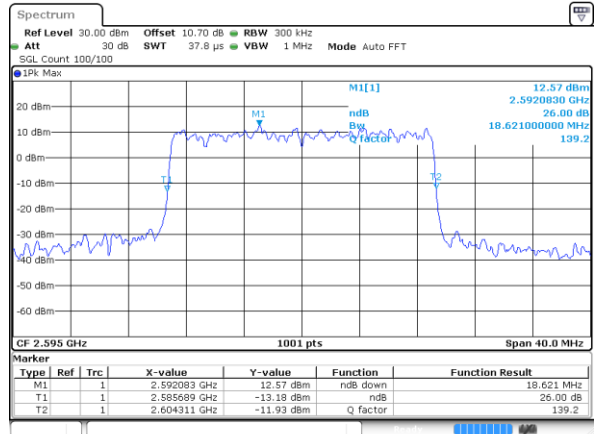
Date: 18 DEC 2021 12:09:10

Middle Channel / 20MHz / QPSK



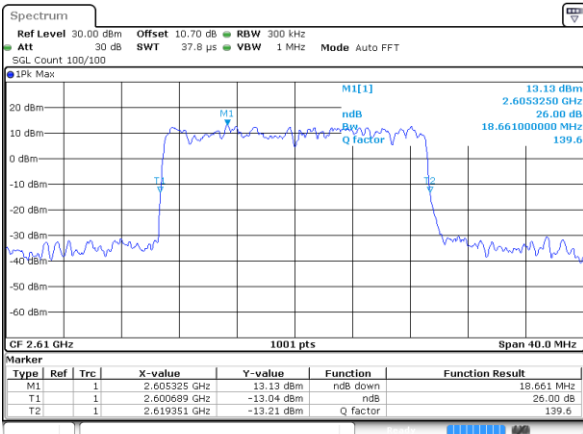
Date: 18 DEC 2021 12:10:23

Middle Channel / 20MHz / 16QAM



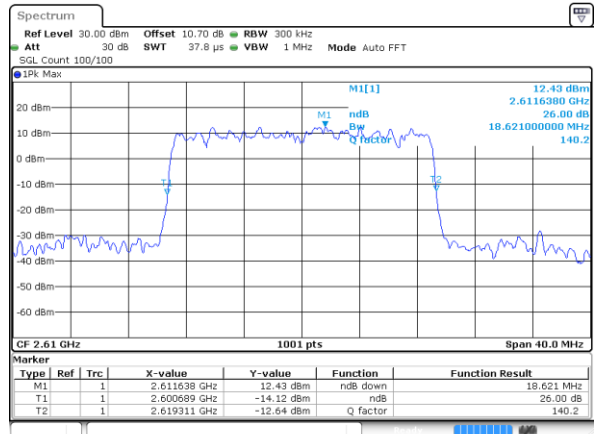
Date: 18 DEC 2021 12:10:47

Highest Channel / 20MHz / QPSK



Date: 18 DEC 2021 12:12:01

Highest Channel / 20MHz / 16QAM

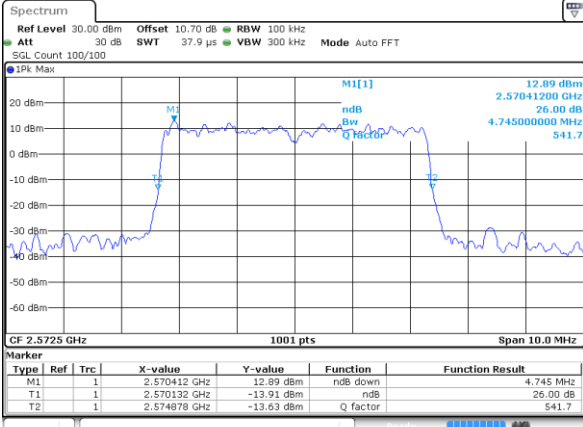


Date: 18 DEC 2021 12:12:26



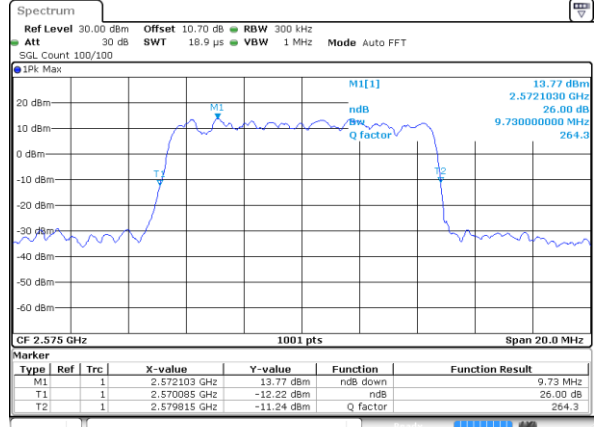
LTE Band 38

Lowest Channel / 5MHz / 64QAM



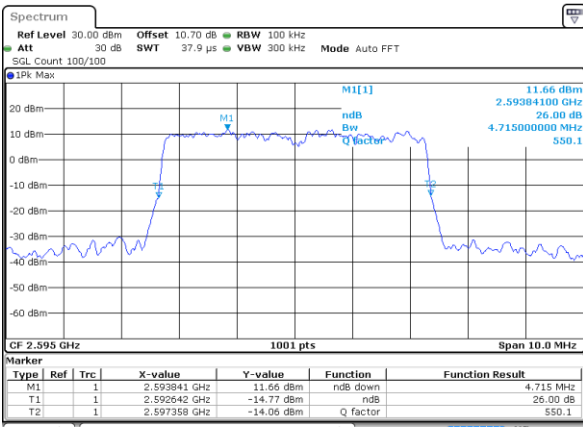
Date: 18 DEC 2021 12:13:07

Lowest Channel / 10MHz / 64QAM



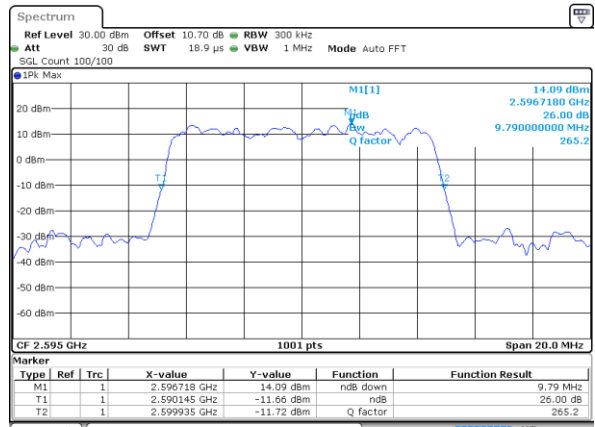
Date: 18 DEC 2021 12:15:06

Middle Channel / 5MHz / 64QAM



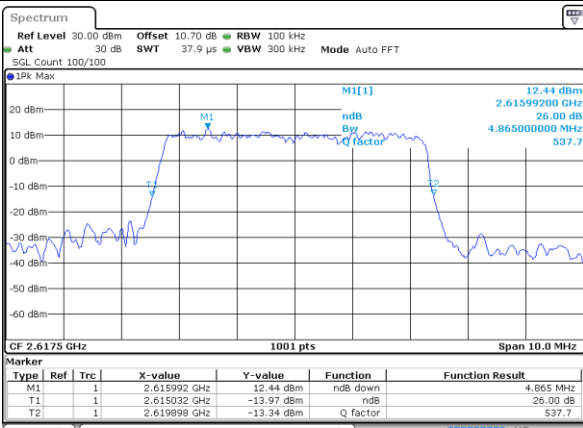
Date: 18 DEC 2021 12:13:46

Middle Channel / 10MHz / 64QAM



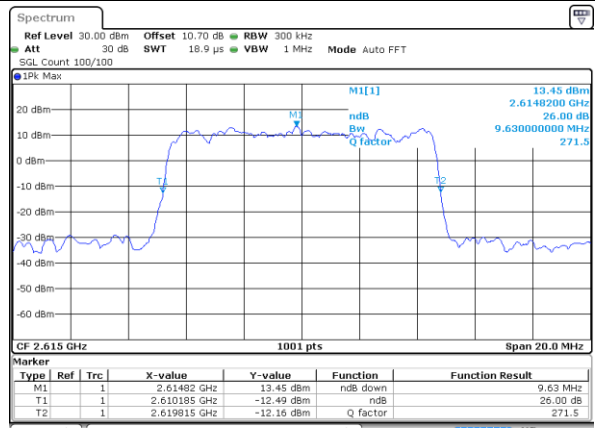
Date: 18 DEC 2021 12:15:45

Highest Channel / 5MHz / 64QAM



Date: 18 DEC 2021 12:14:26

Highest Channel / 10MHz / 64QAM

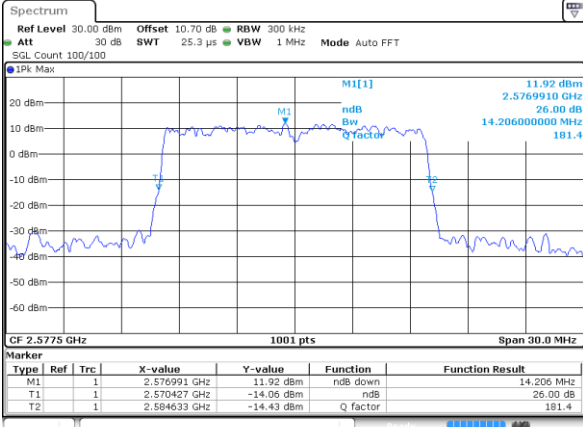


Date: 18 DEC 2021 12:16:25



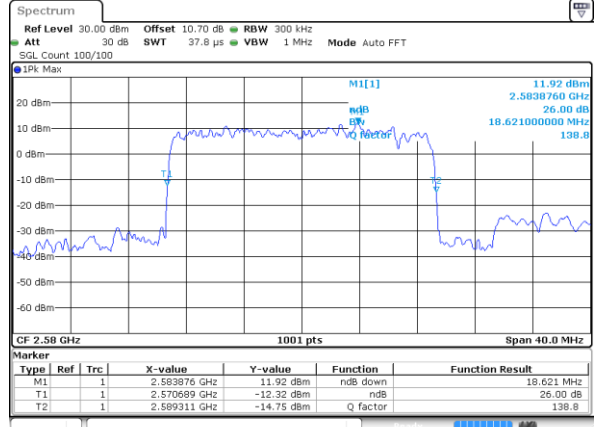
LTE Band 38

Lowest Channel / 15MHz / 64QAM



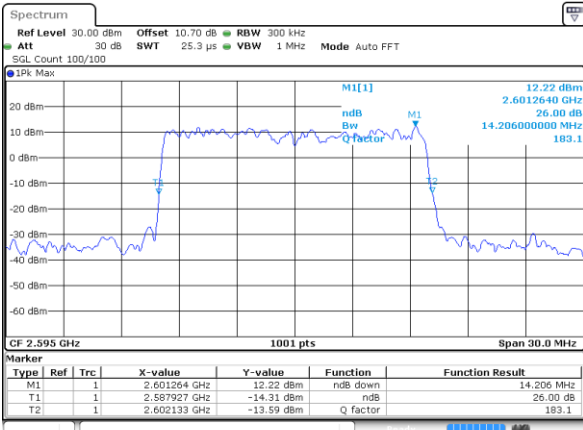
Date: 18 DEC 2021 12:17:05

Lowest Channel / 20MHz / 64QAM



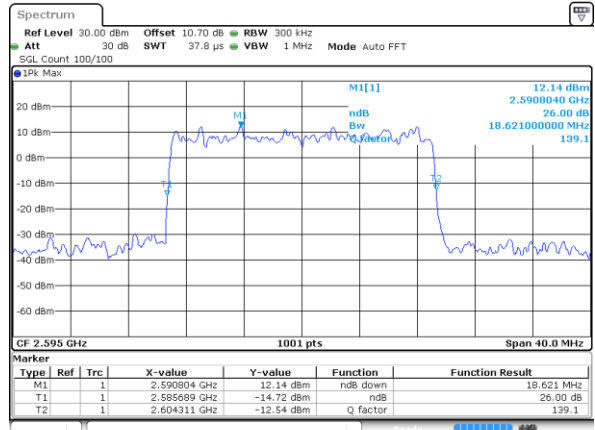
Date: 18 DEC 2021 12:19:05

Middle Channel / 15MHz / 64QAM



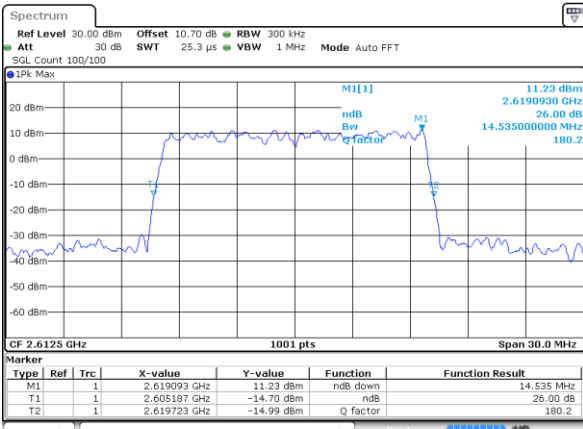
Date: 18 DEC 2021 12:17:45

Middle Channel / 20MHz / 64QAM



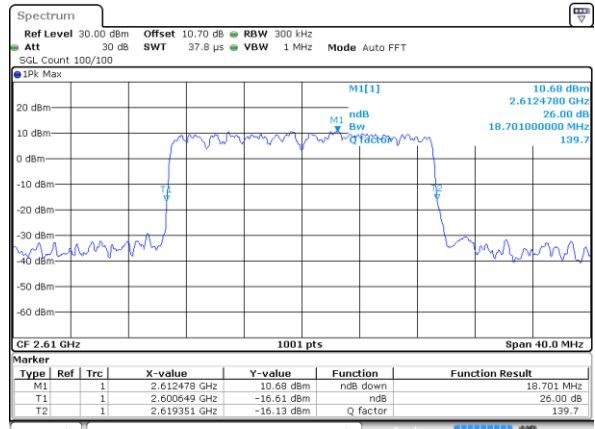
Date: 18 DEC 2021 12:19:45

Highest Channel / 15MHz / 64QAM



Date: 18 DEC 2021 12:18:25

Highest Channel / 20MHz / 64QAM



Date: 18 DEC 2021 12:20:25



### Occupied Bandwidth

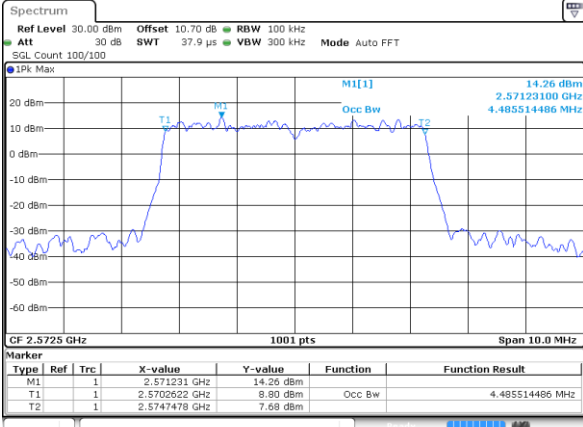
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.50	9.01	9.01	13.40	13.46	17.90	17.78
Middle CH	-	-	-	-	4.49	4.46	9.03	9.11	13.40	13.46	17.86	17.94
Highest CH	-	-	-	-	4.49	4.49	9.03	9.05	13.43	13.37	17.78	17.86
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	9.03	-	13.37	-	17.82	-
Middle CH	-	-	-	-	4.50	-	8.99	-	13.46	-	17.82	-
Highest CH	-	-	-	-	4.48	-	9.03	-	13.43	-	17.78	-





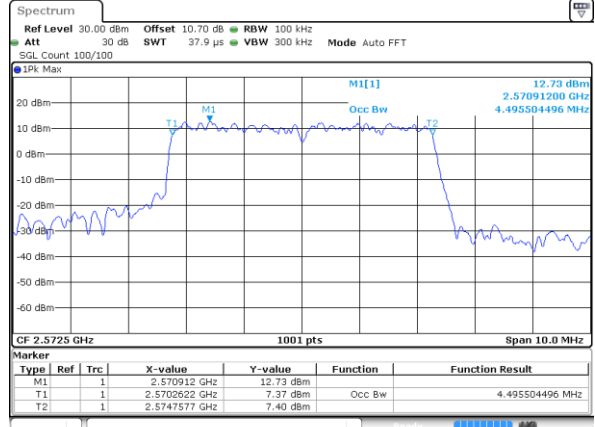
LTE Band 38

Lowest Channel / 5MHz / QPSK



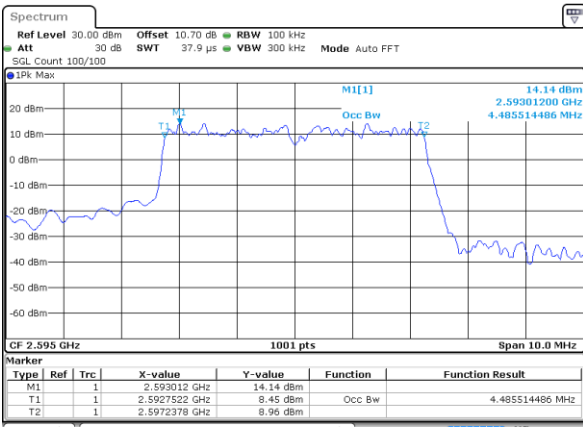
Date: 18 DEC 2021 11:53:11

Lowest Channel / 5MHz / 16QAM



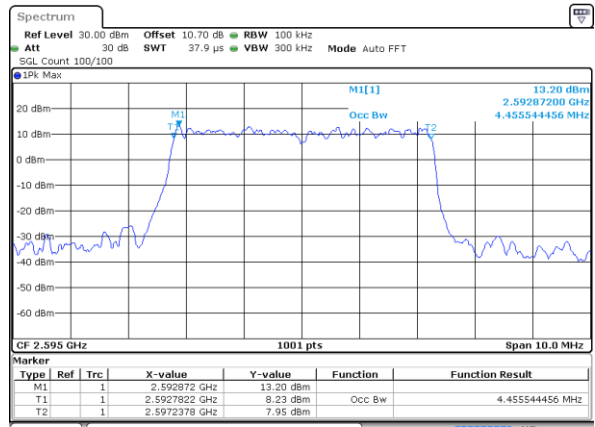
Date: 18 DEC 2021 11:53:36

Middle Channel / 5MHz / QPSK



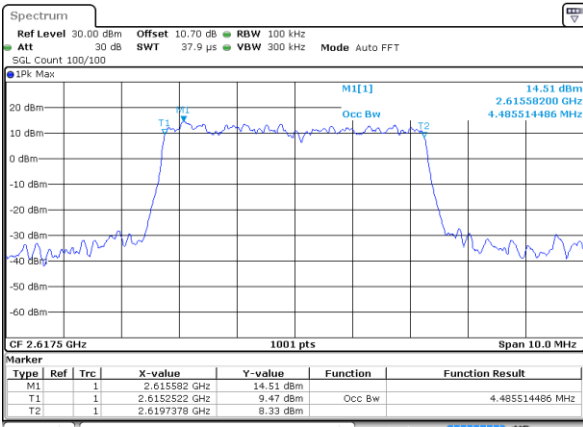
Date: 18 DEC 2021 11:54:50

Middle Channel / 5MHz / 16QAM



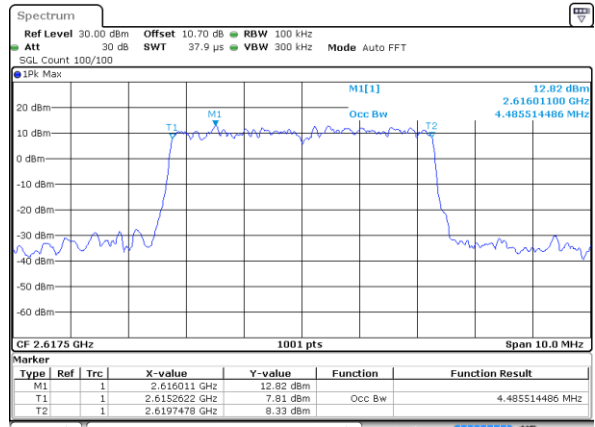
Date: 18 DEC 2021 11:55:14

Highest Channel / 5MHz / QPSK



Date: 18 DEC 2021 11:56:27

Highest Channel / 5MHz / 16QAM

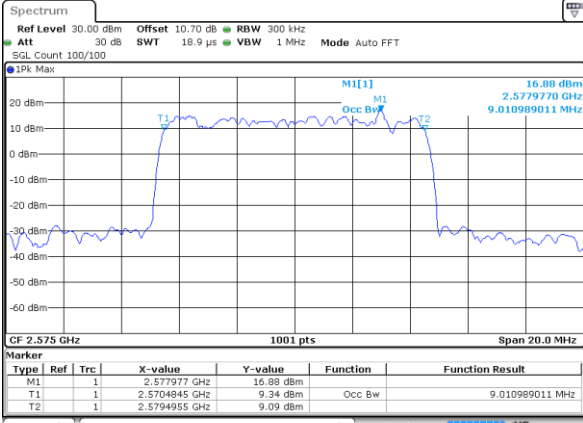


Date: 18 DEC 2021 11:56:51



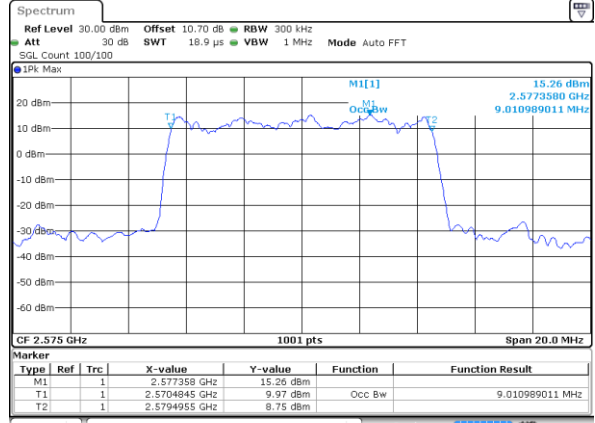
LTE Band 38

Lowest Channel / 10MHz / QPSK



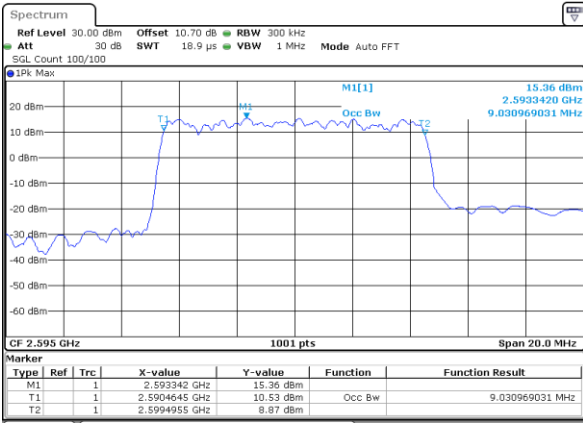
Date: 18 DEC 2021 11:58:05

Lowest Channel / 10MHz / 16QAM



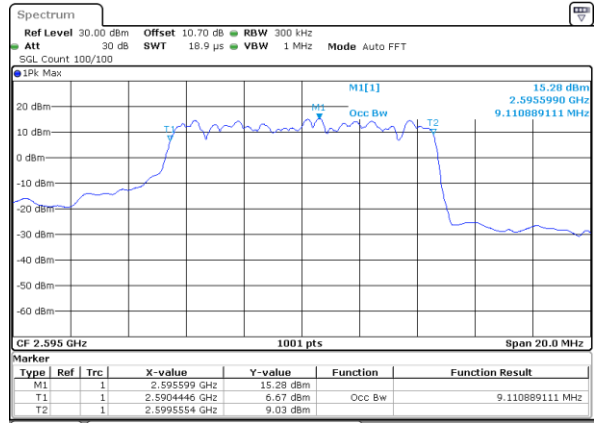
Date: 18 DEC 2021 11:58:30

Middle Channel / 10MHz / QPSK



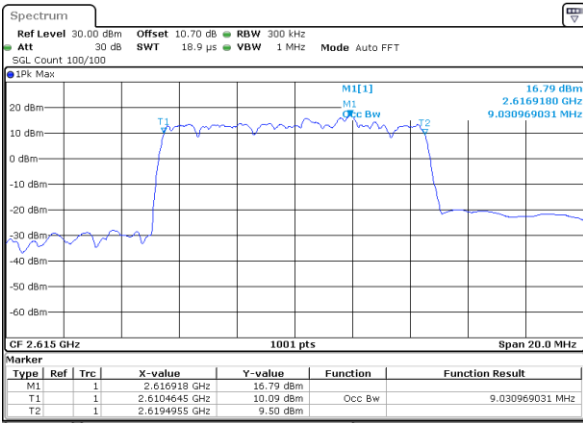
Date: 18 DEC 2021 11:59:44

Middle Channel / 10MHz / 16QAM



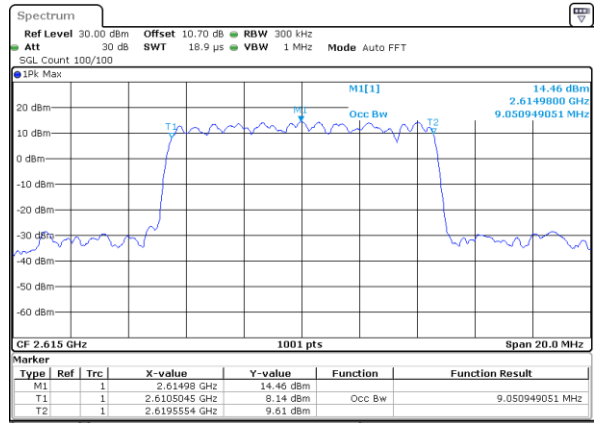
Date: 18 DEC 2021 12:00:08

Highest Channel / 10MHz / QPSK



Date: 18 DEC 2021 12:01:21

Highest Channel / 10MHz / 16QAM

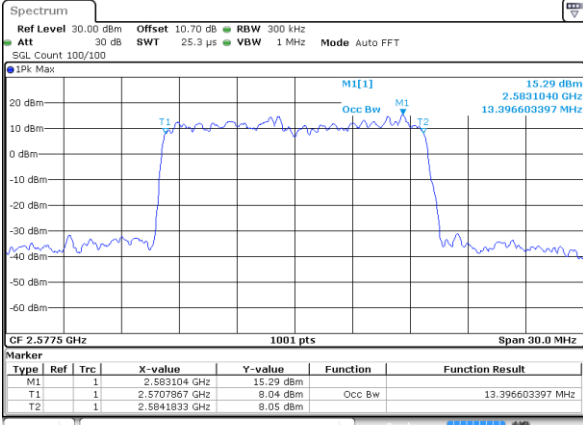


Date: 18 DEC 2021 12:01:46



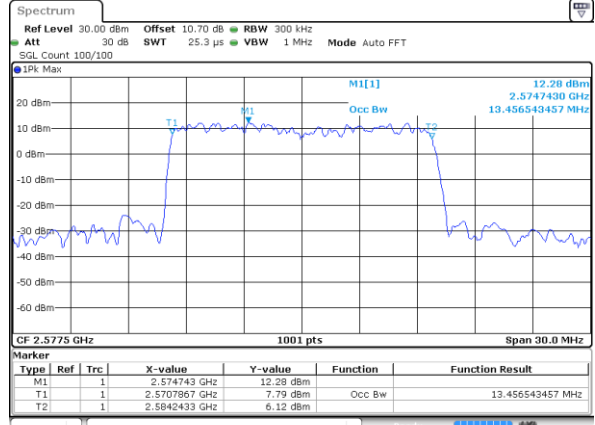
LTE Band 38

Lowest Channel / 15MHz / QPSK



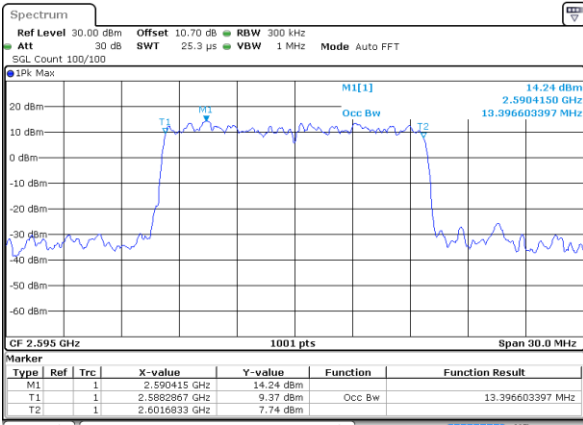
Date: 18 DEC 2021 12:03:01

Lowest Channel / 15MHz / 16QAM



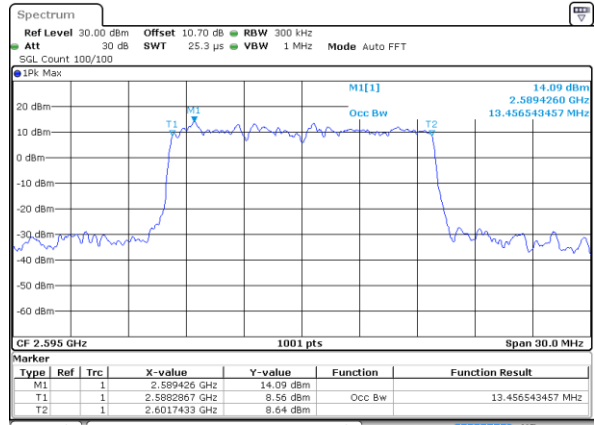
Date: 18 DEC 2021 12:03:25

Middle Channel / 15MHz / QPSK



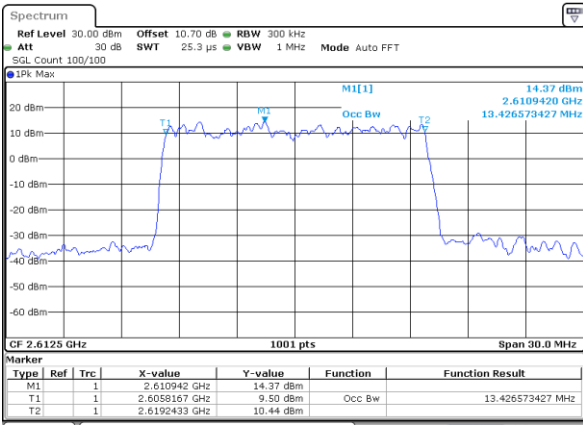
Date: 18 DEC 2021 12:04:39

Middle Channel / 15MHz / 16QAM



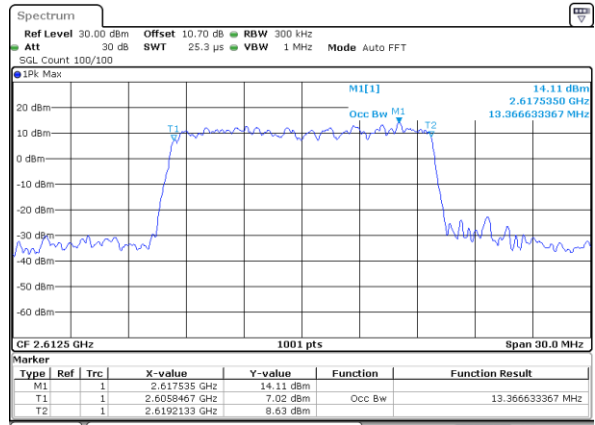
Date: 18 DEC 2021 12:05:03

Highest Channel / 15MHz / QPSK



Date: 18 DEC 2021 12:06:17

Highest Channel / 15MHz / 16QAM

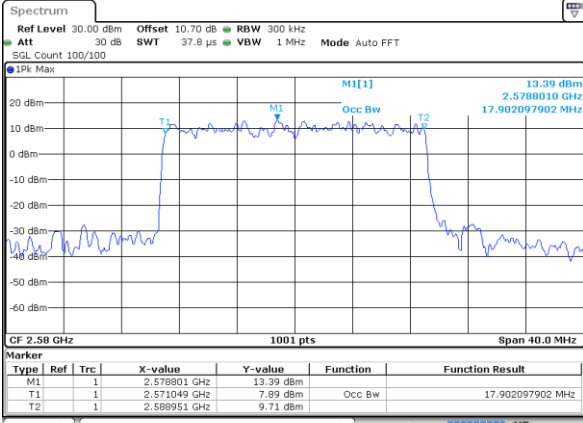


Date: 18 DEC 2021 12:06:41



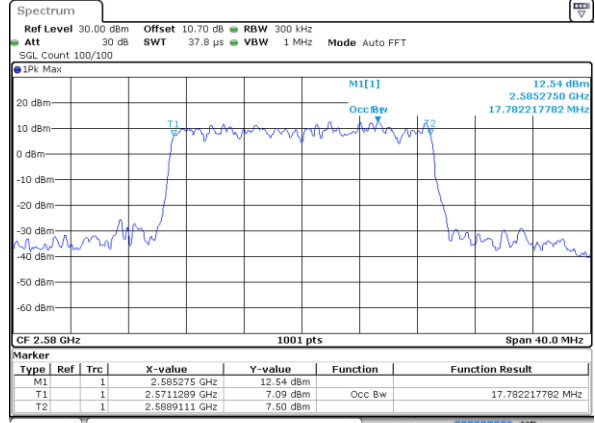
LTE Band 38

Lowest Channel / 20MHz / QPSK



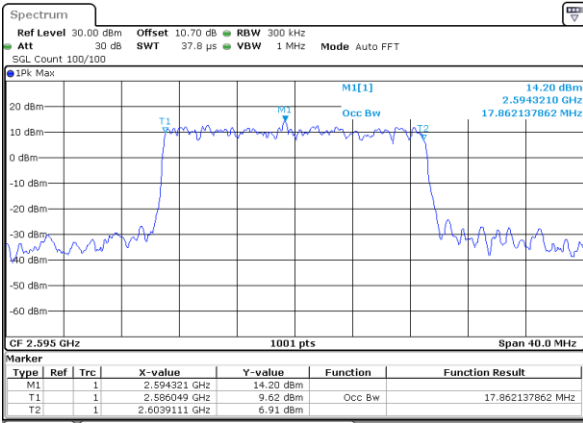
Date: 18 DEC 2021 12:07:56

Lowest Channel / 20MHz / 16QAM



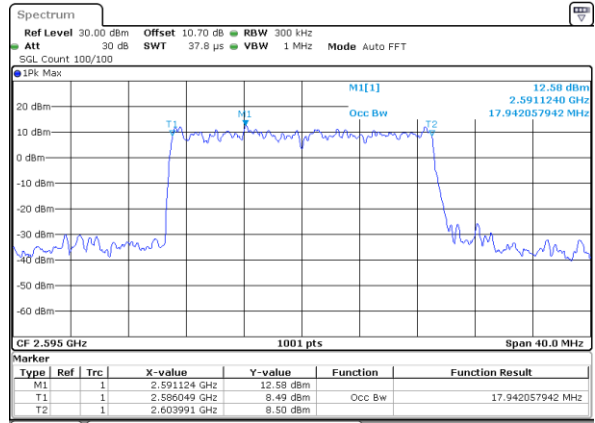
Date: 18 DEC 2021 12:08:21

Middle Channel / 20MHz / QPSK



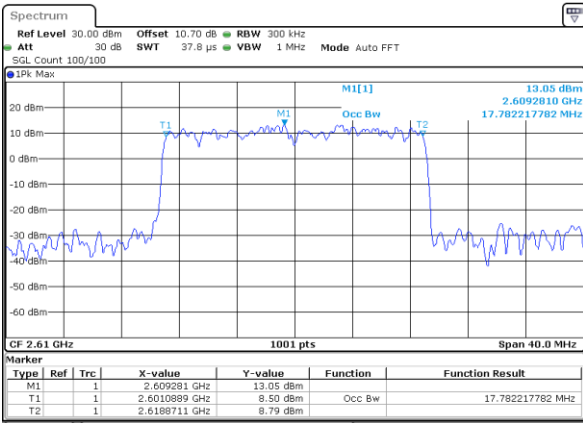
Date: 18 DEC 2021 12:09:35

Middle Channel / 20MHz / 16QAM



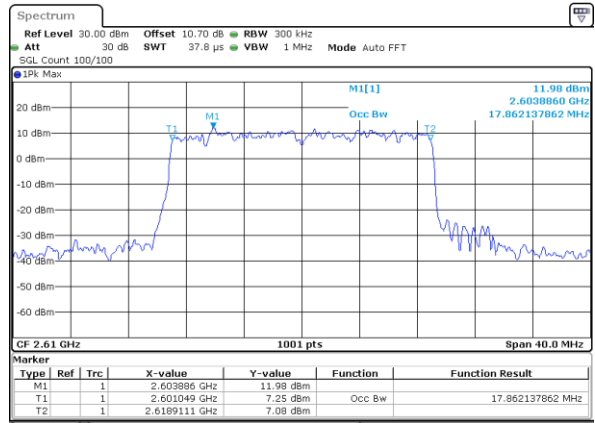
Date: 18 DEC 2021 12:09:59

Highest Channel / 20MHz / QPSK



Date: 18 DEC 2021 12:11:12

Highest Channel / 20MHz / 16QAM

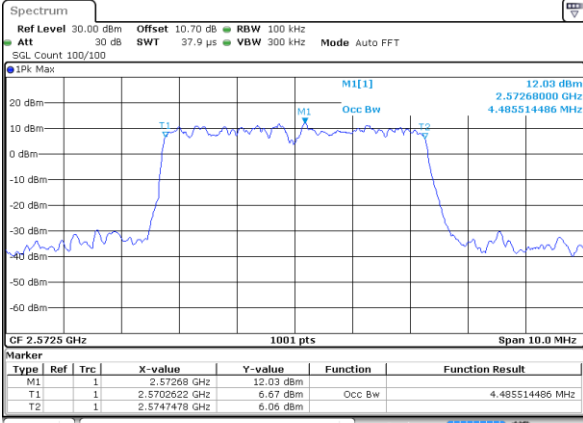


Date: 18 DEC 2021 12:11:37



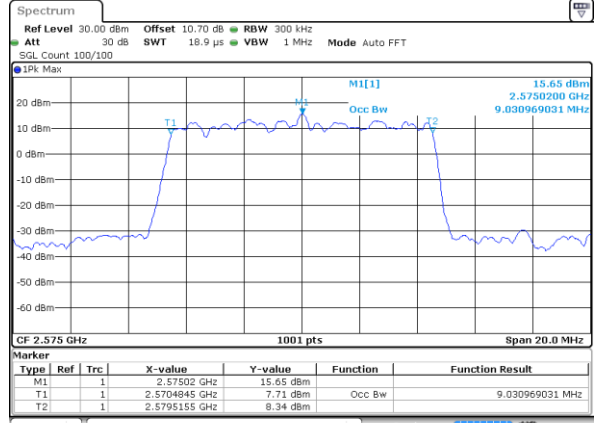
LTE Band 38

Lowest Channel / 5MHz / 64QAM



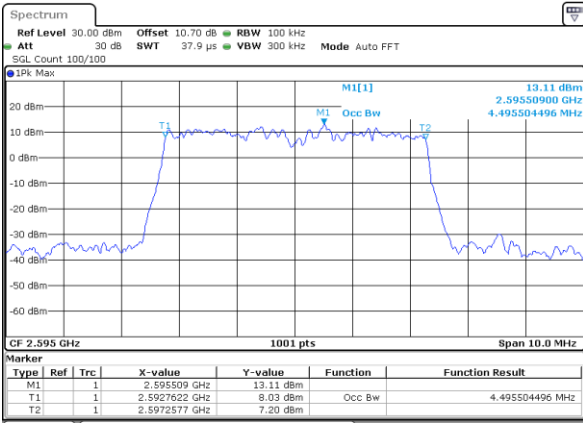
Date: 18 DEC 2021 12:12:51

Lowest Channel / 10MHz / 64QAM



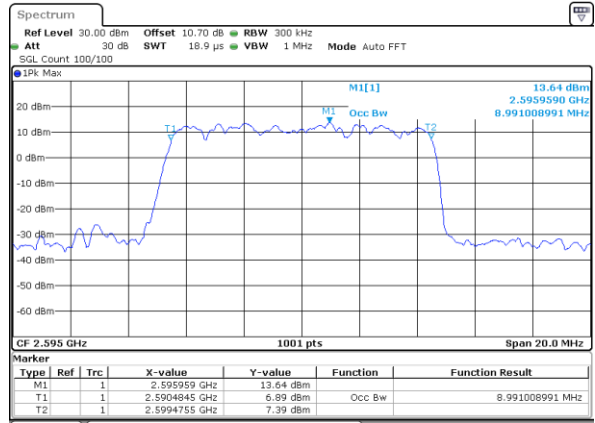
Date: 18 DEC 2021 12:14:51

Middle Channel / 5MHz / 64QAM



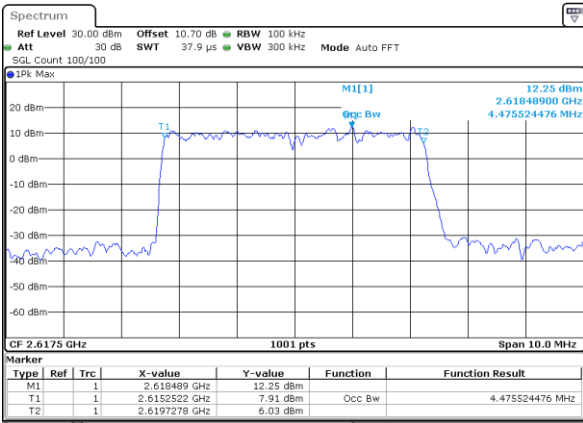
Date: 18 DEC 2021 12:13:31

Middle Channel / 10MHz / 64QAM



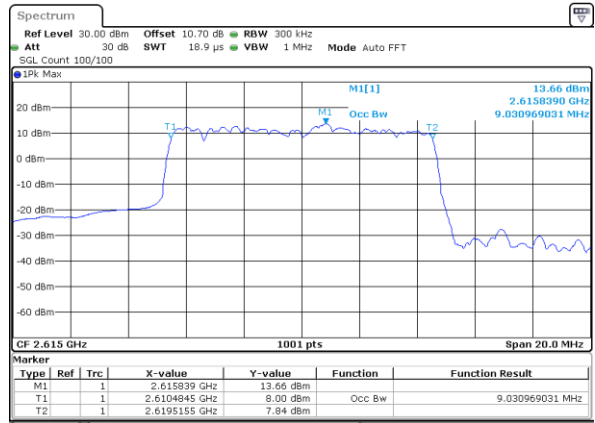
Date: 18 DEC 2021 12:15:30

Highest Channel / 5MHz / 64QAM



Date: 18 DEC 2021 12:14:11

Highest Channel / 10MHz / 64QAM



Date: 18 DEC 2021 12:16:10