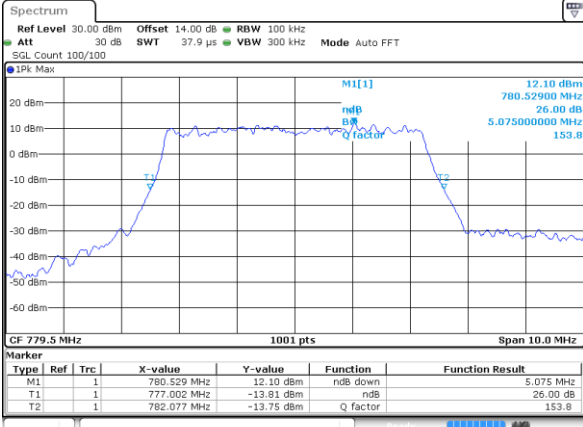




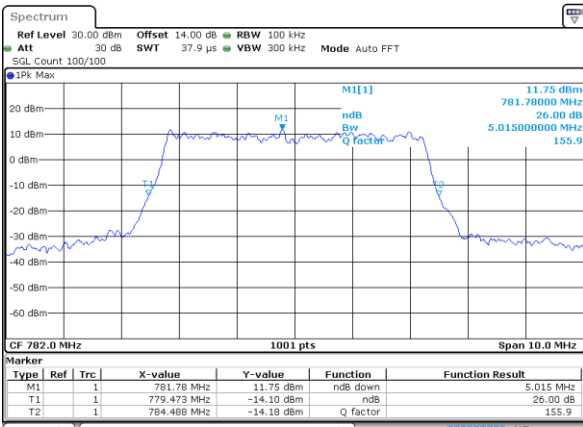
LTE Band 13

Lowest Channel / 5MHz / 64QAM



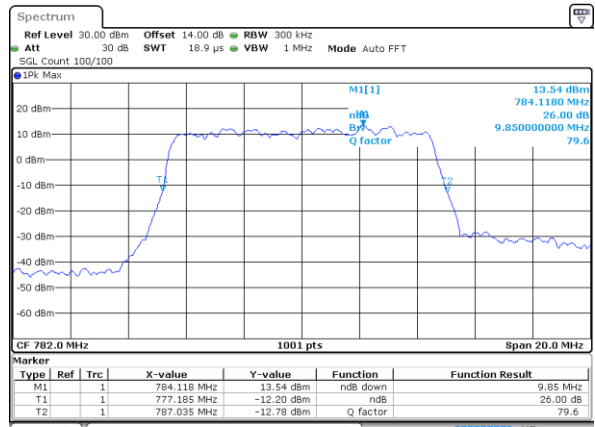
Date: 31.OCT.2022 08:14:40

Middle Channel / 5MHz / 64QAM



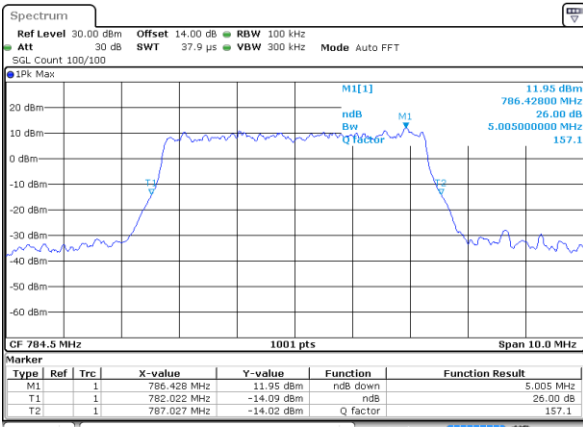
Date: 31.OCT.2022 08:20:33

Middle Channel / 10MHz / 64QAM



Date: 31.OCT.2022 08:41:12

Highest Channel / 5MHz / 64QAM



Date: 31.OCT.2022 08:21:28



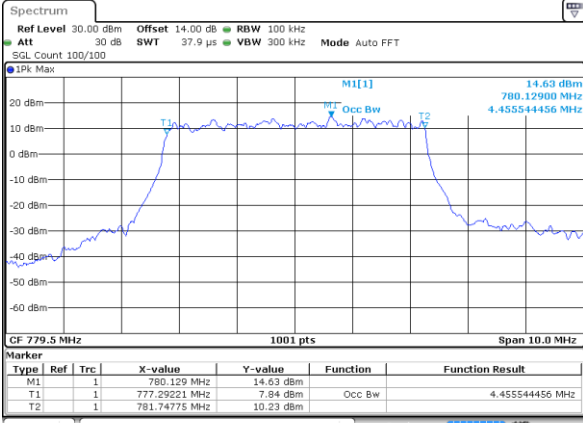
Occupied Bandwidth

Mode	LTE Band 13 : 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	-	-	-	-	4.46	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	4.51	9.07	9.03	-	-	-	-
Highest CH	-	-	-	-	4.50	4.53	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	8.97	-	-	-	-	-
Highest CH	-	-	-	-	4.48	-	-	-	-	-	-	-



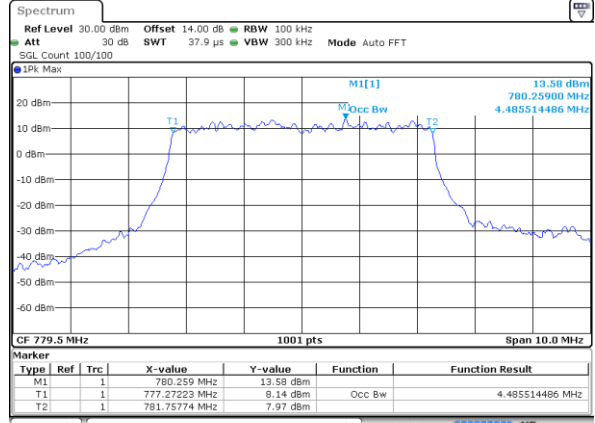
LTE Band 13

Lowest Channel / 5MHz / QPSK



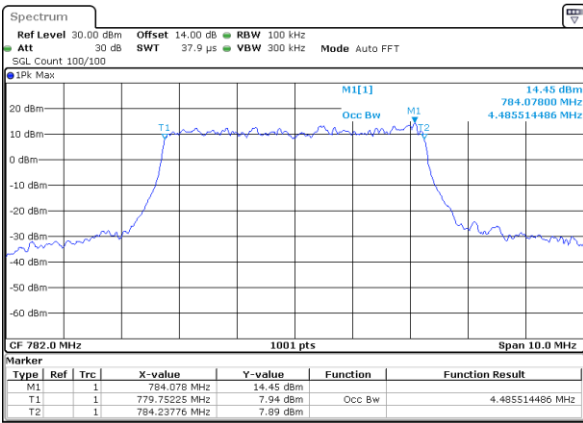
Date: 31.OCT.2022 07:49:13

Lowest Channel / 5MHz / 16QAM



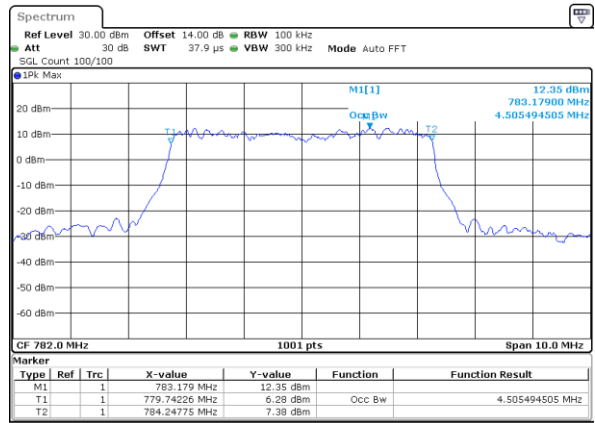
Date: 31.OCT.2022 07:49:38

Middle Channel / 5MHz / QPSK



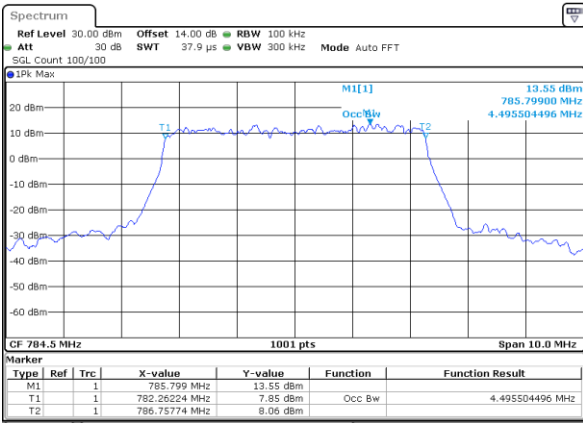
Date: 31.OCT.2022 08:03:13

Middle Channel / 5MHz / 16QAM



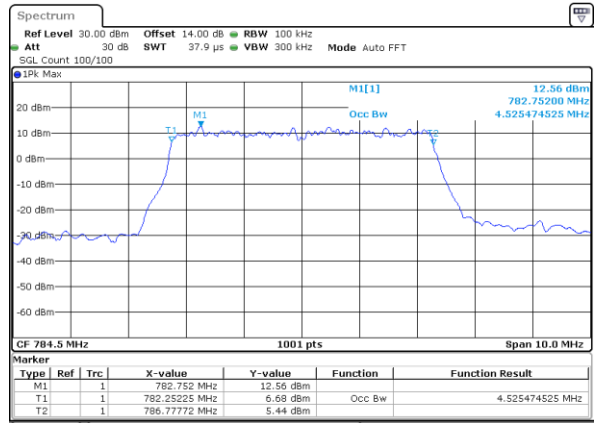
Date: 31.OCT.2022 08:02:50

Highest Channel / 5MHz / QPSK



Date: 31.OCT.2022 08:03:36

Highest Channel / 5MHz / 16QAM

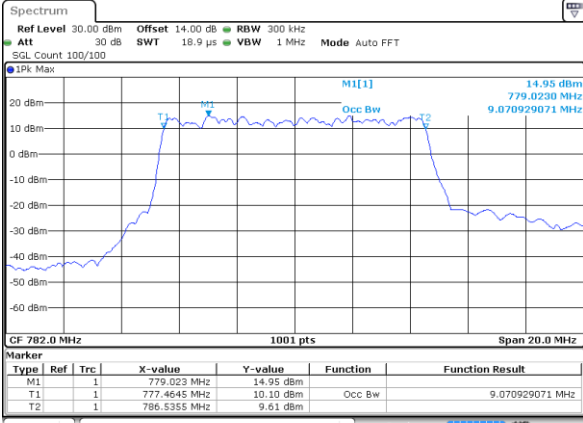


Date: 31.OCT.2022 08:04:00



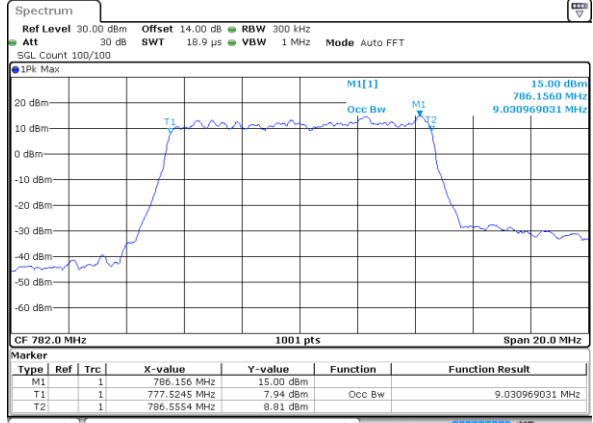
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 31.OCT.2022 08:26:28

Middle Channel / 10MHz / 16QAM

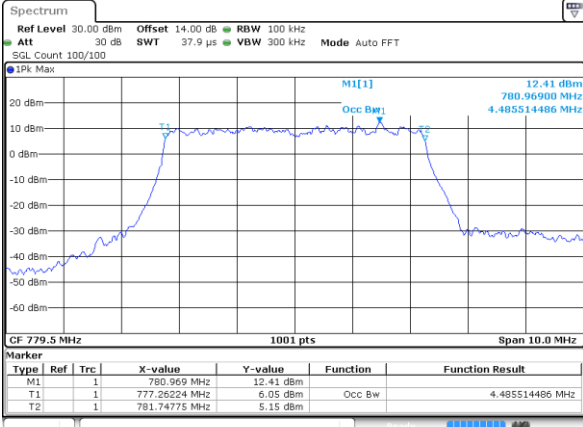


Date: 31.OCT.2022 08:26:52



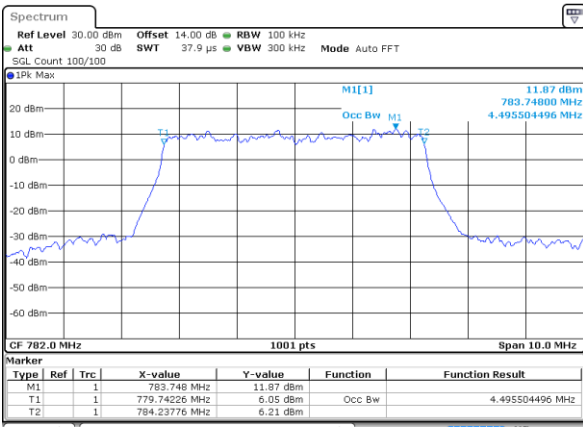
LTE Band 13

Lowest Channel / 5MHz / 64QAM



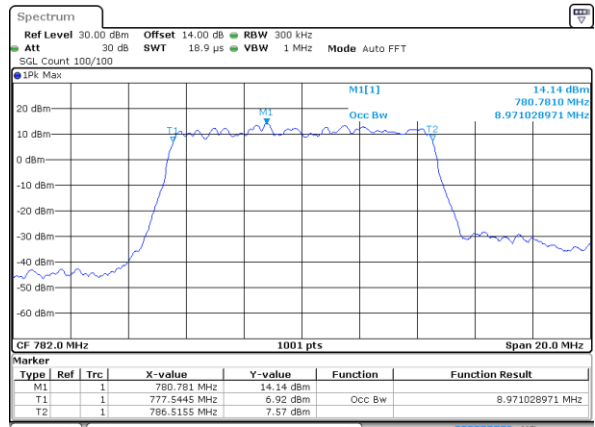
Date: 31.OCT.2022 08:14:28

Middle Channel / 5MHz / 64QAM



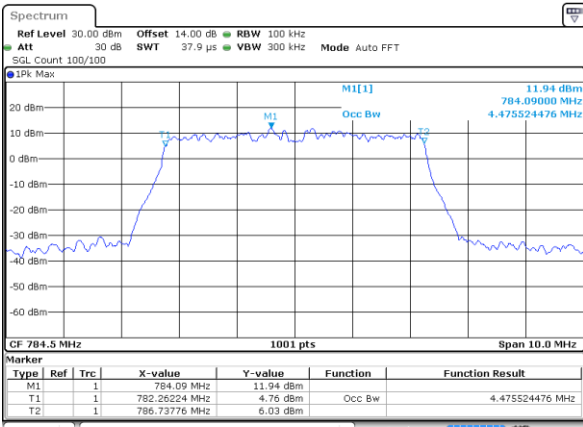
Date: 31.OCT.2022 08:20:48

Middle Channel / 10MHz / 64QAM



Date: 31.OCT.2022 08:40:57

Highest Channel / 5MHz / 64QAM



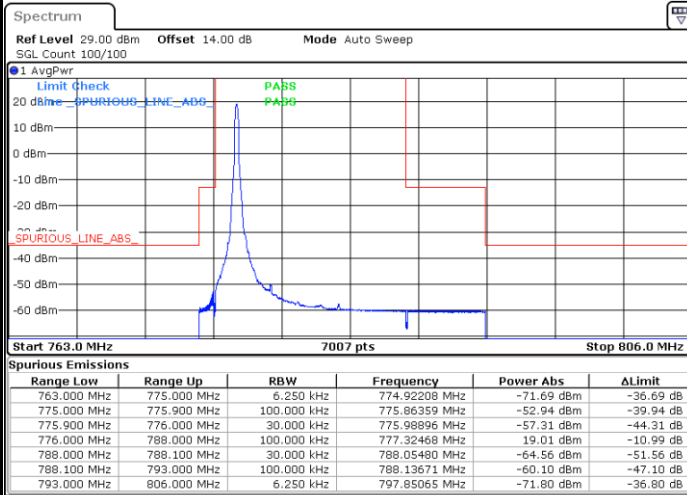
Date: 31.OCT.2022 08:21:11



Conducted Band Edge

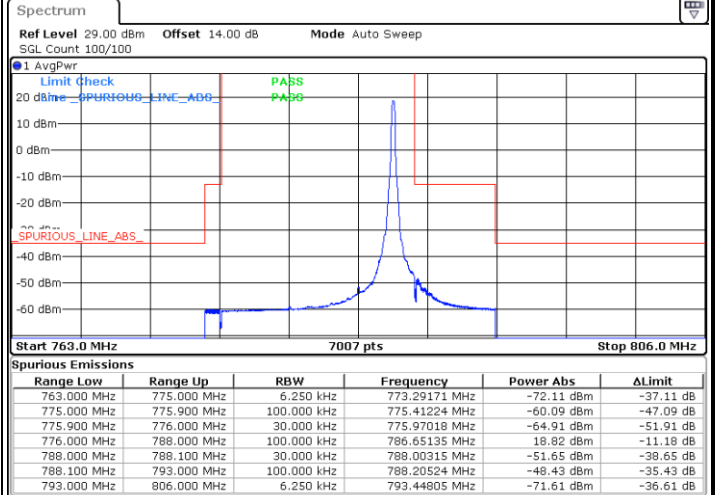
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



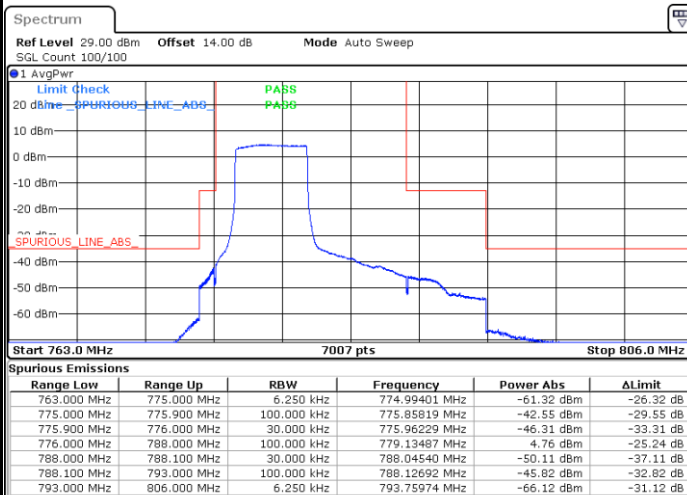
Date: 31.OCT.2022 07:57:36

Highest Band Edge / 1 RB



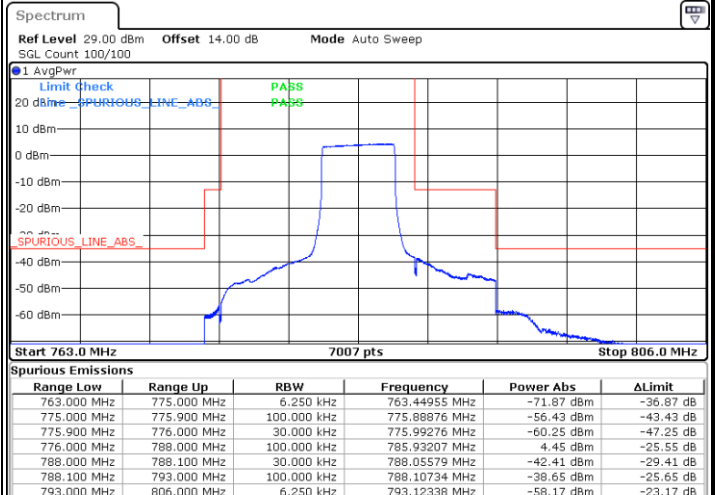
Date: 31.OCT.2022 08:11:58

Lowest Band Edge / Full RB



Date: 31.OCT.2022 07:52:00

Highest Band Edge / Full RB



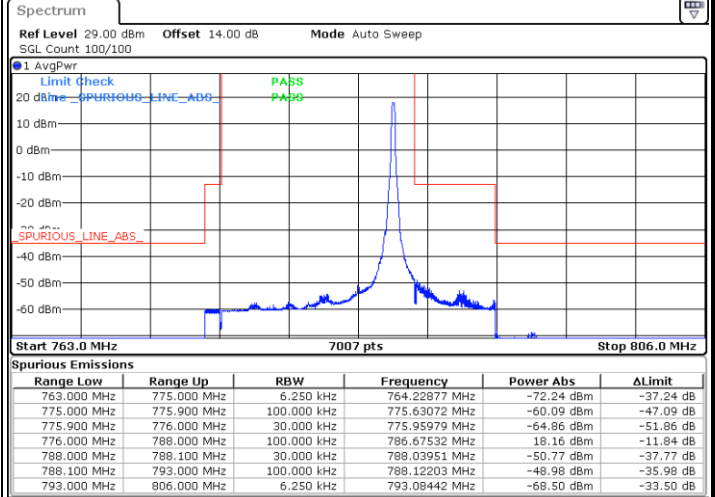
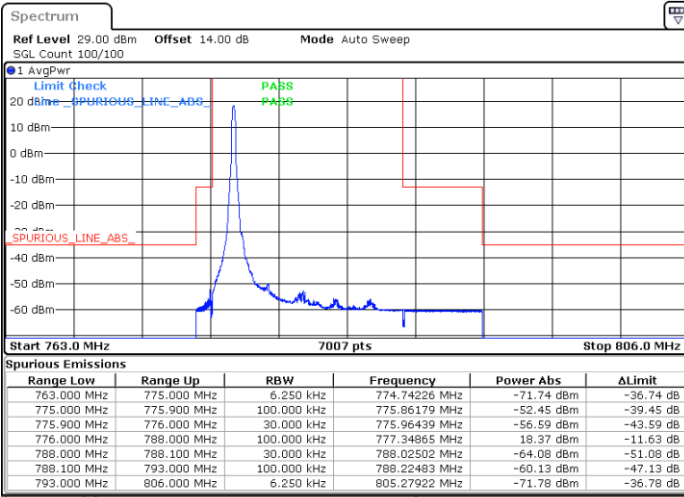
Date: 31.OCT.2022 08:06:21



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

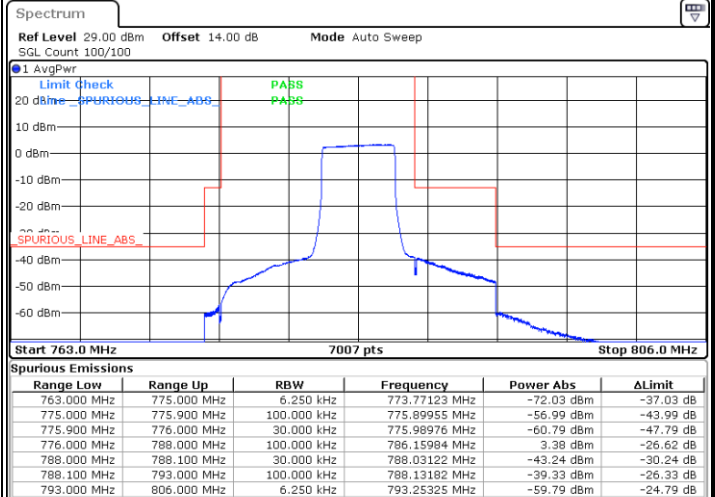
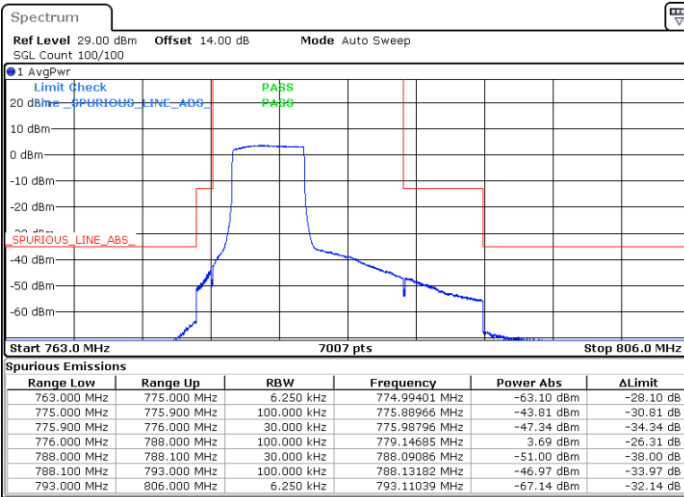


Date: 31.OCT.2022 07:55:44

Date: 31.OCT.2022 08:10:06

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.OCT.2022 07:53:52

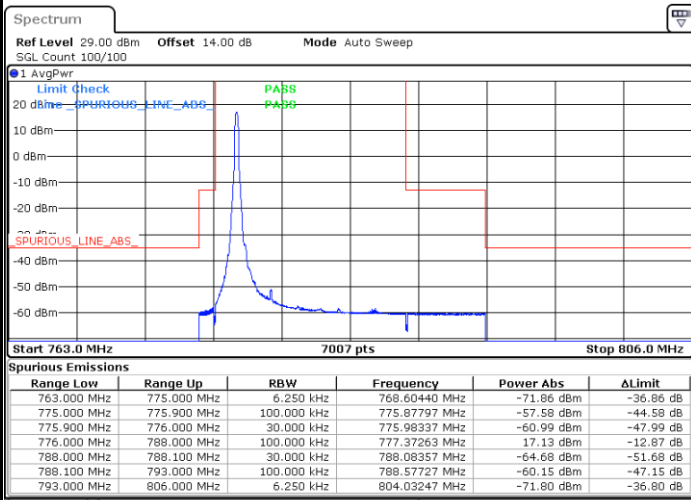
Date: 31.OCT.2022 08:08:14



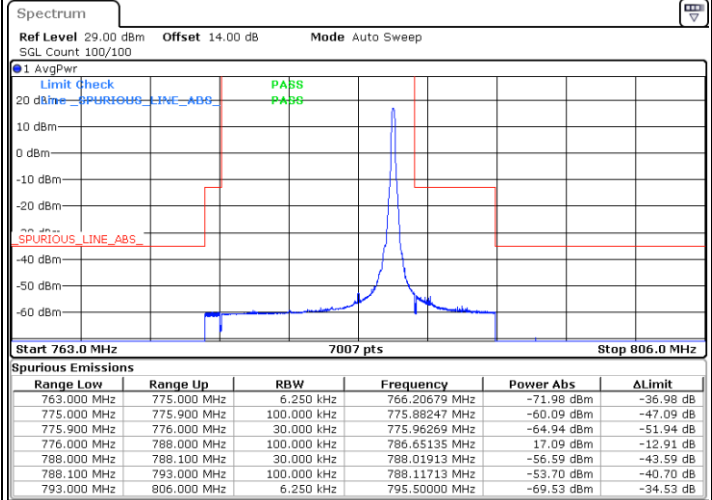
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



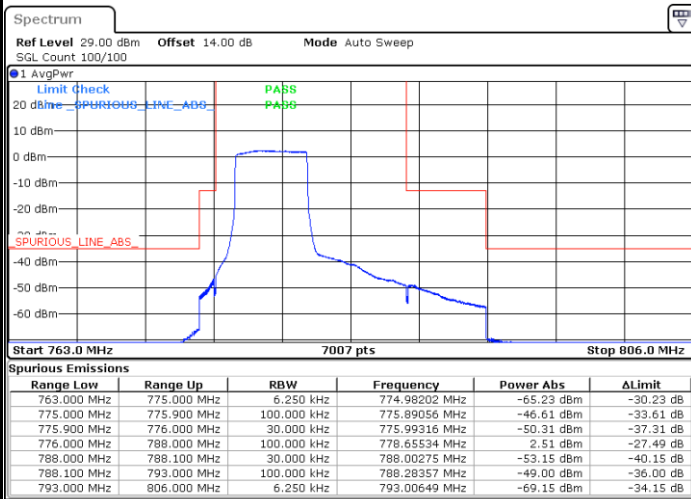
Date: 31.OCT.2022 08:18:16



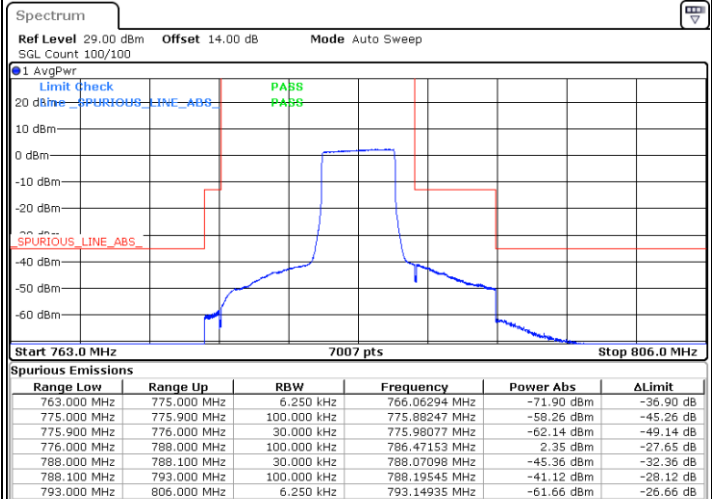
Date: 31.OCT.2022 08:25:02

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.OCT.2022 08:16:23

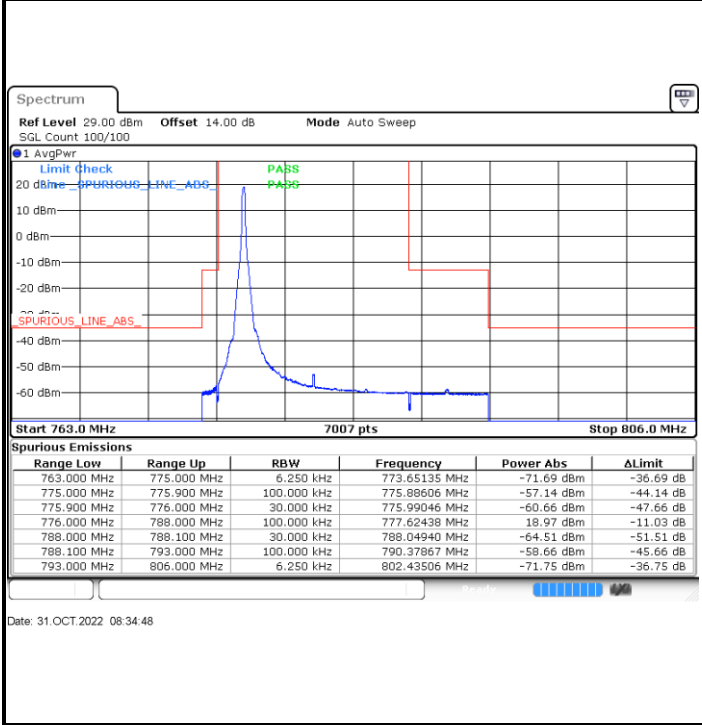


Date: 31.OCT.2022 08:23:10

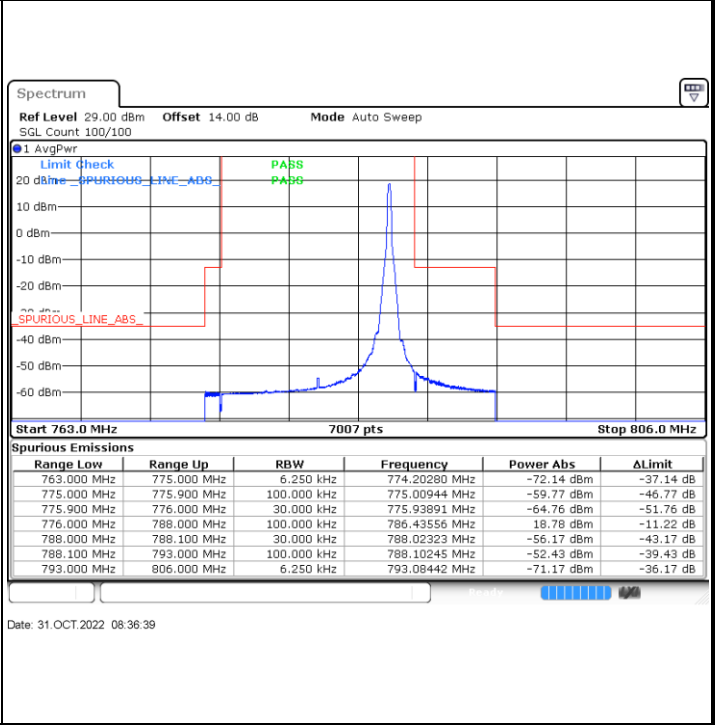


LTE Band 13 / 10MHz / QPSK

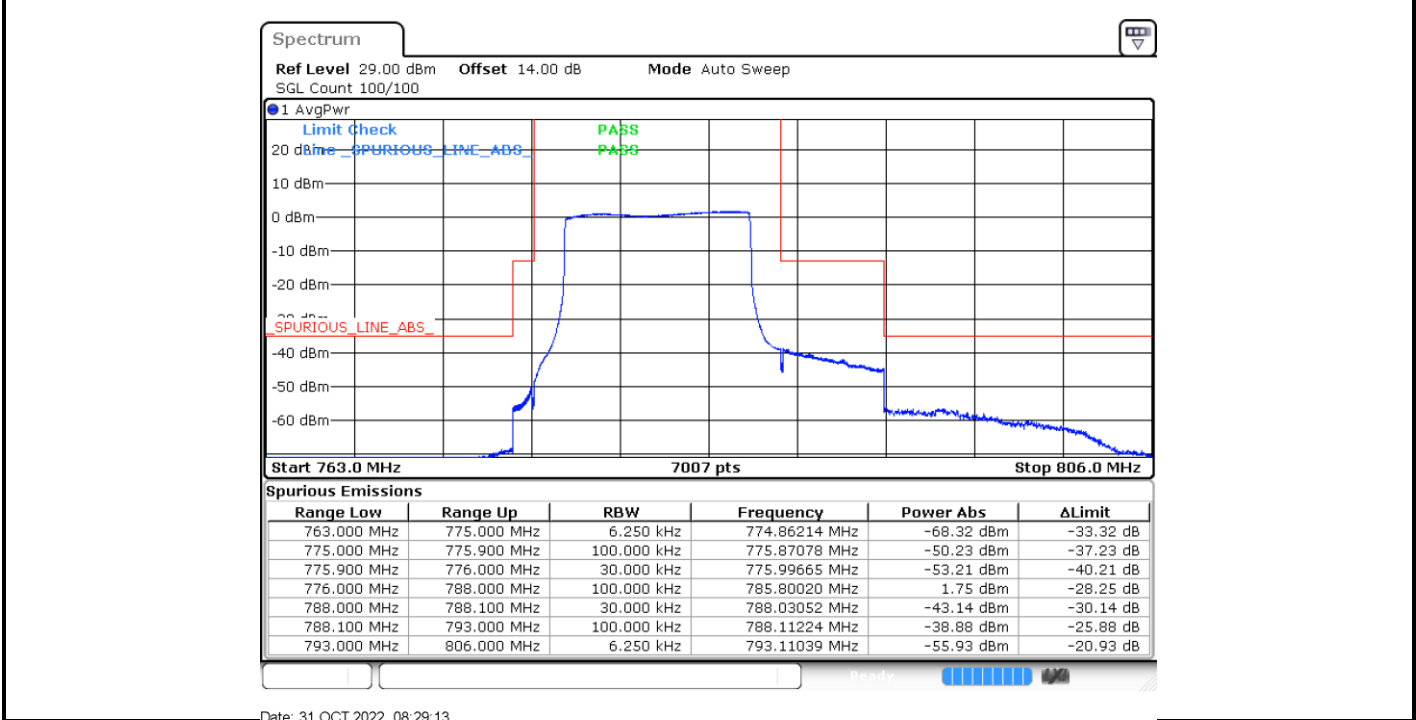
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



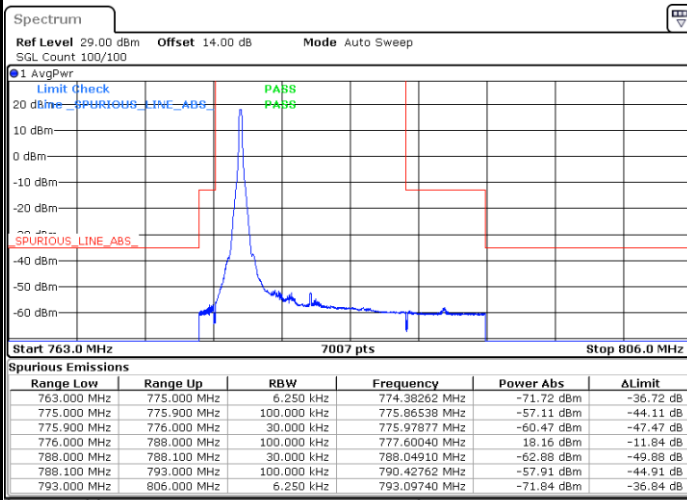
Band Edge / Full RB





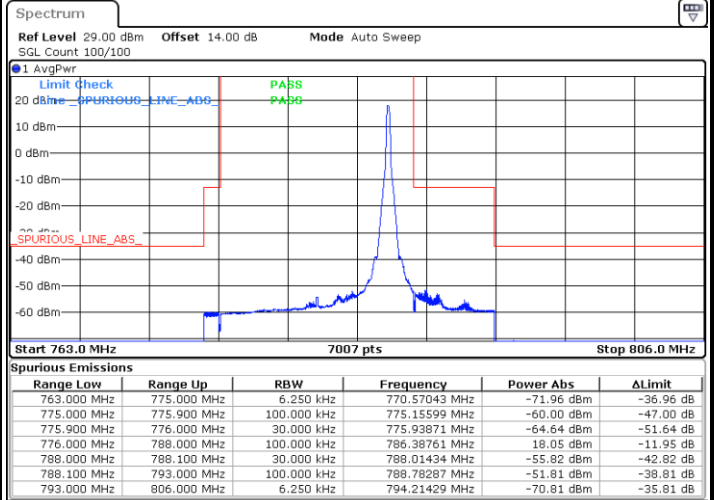
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



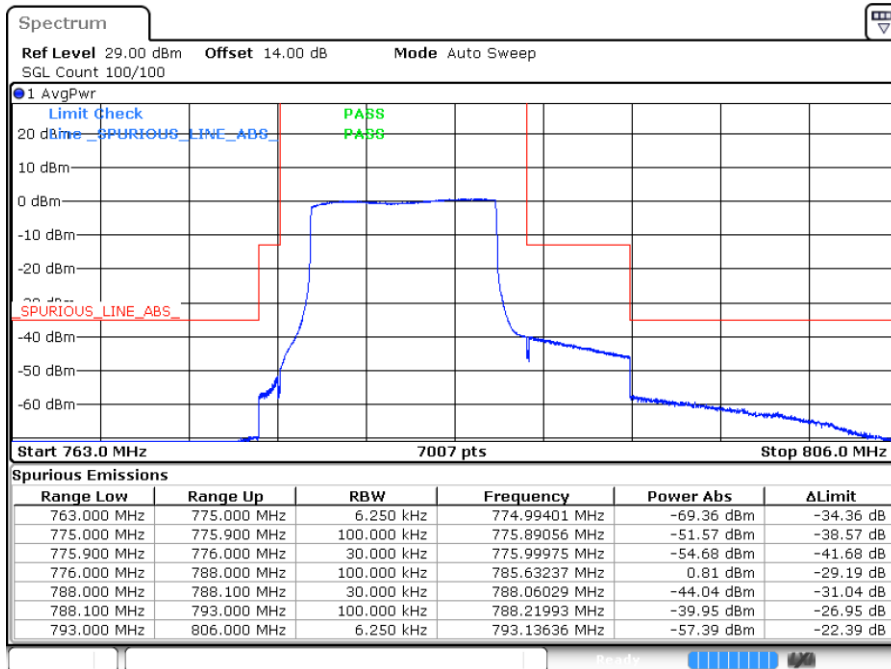
Date: 31.OCT.2022 08:32:56

Highest Band Edge / 1 RB



Date: 31.OCT.2022 08:38:31

Band Edge / Full RB

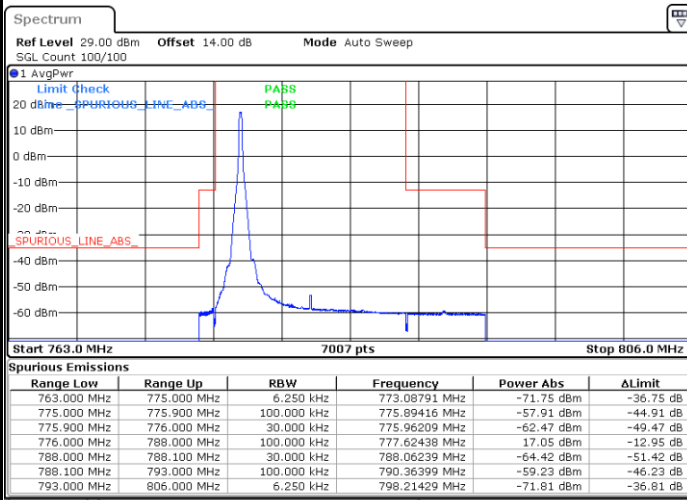


Date: 31.OCT.2022 08:31:04



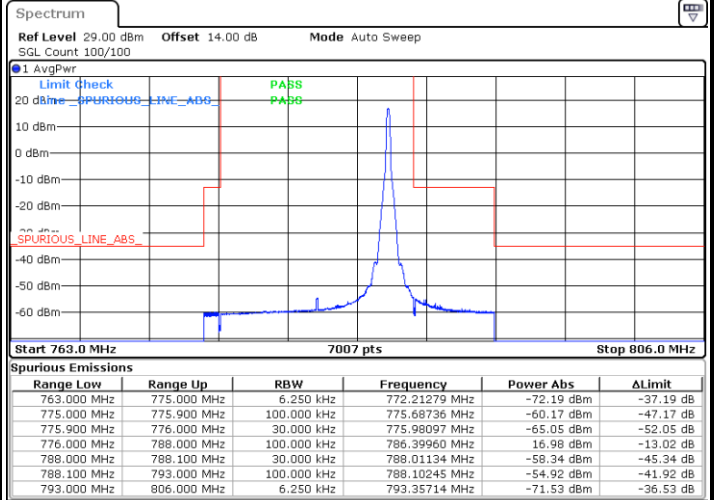
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



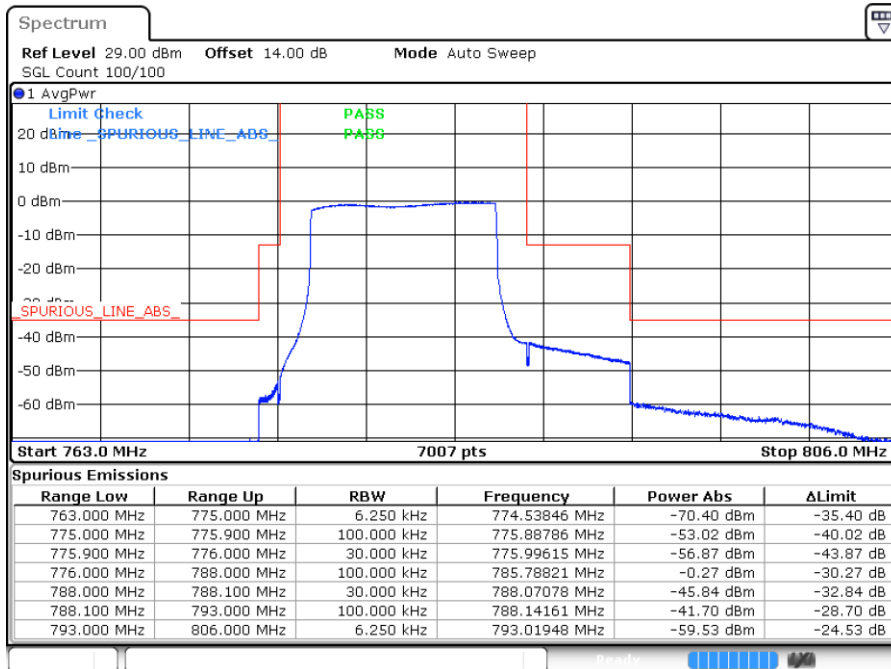
Date: 31.OCT.2022 08:44:47

Highest Band Edge / 1 RB



Date: 31.OCT.2022 08:46:39

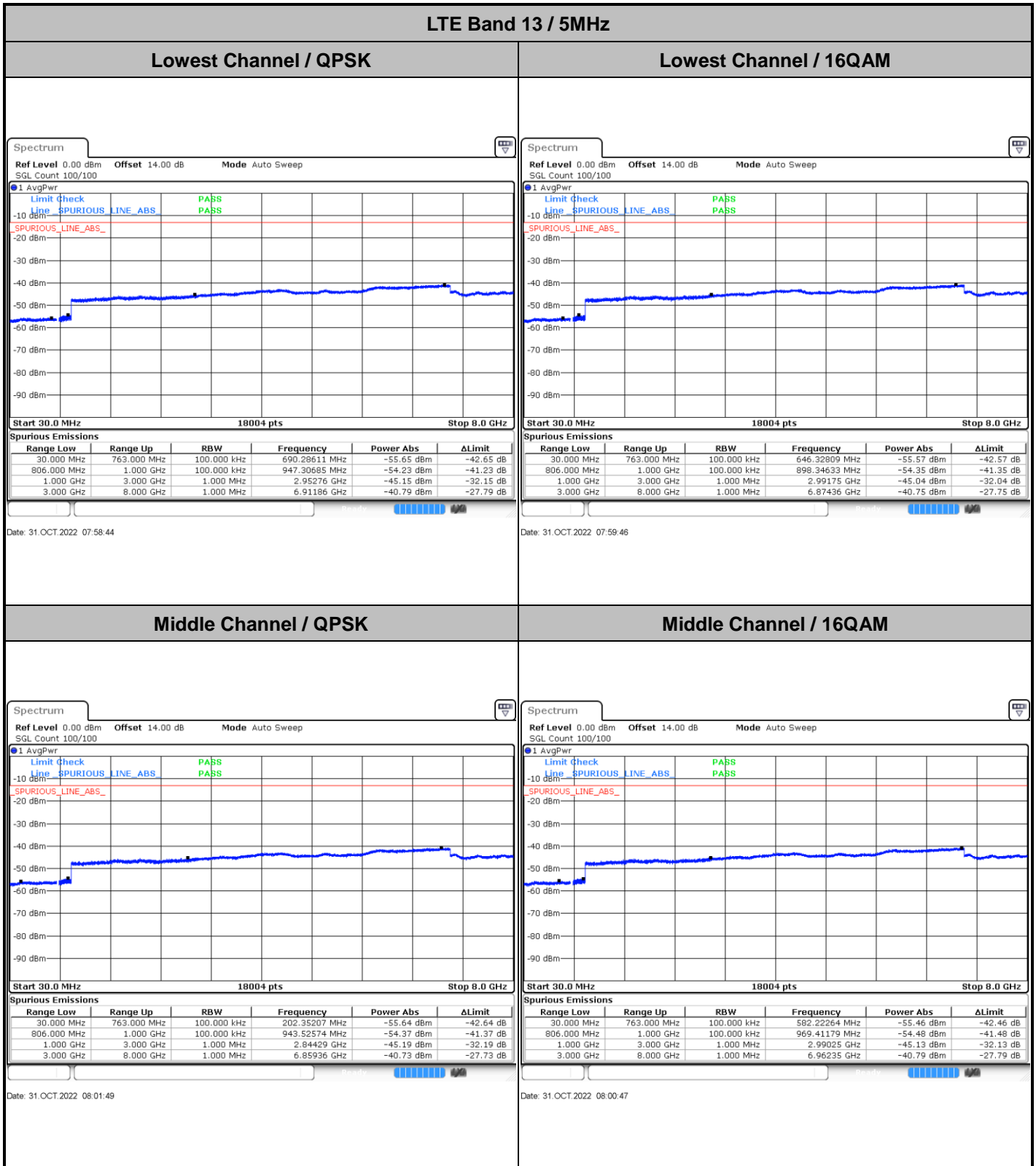
Band Edge / Full RB



Date: 31.OCT.2022 08:42:55



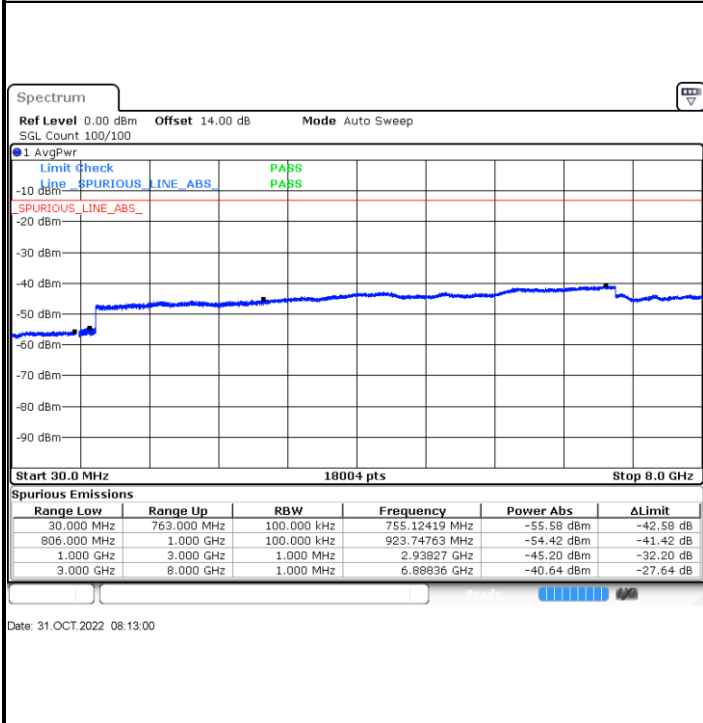
Conducted Spurious Emission



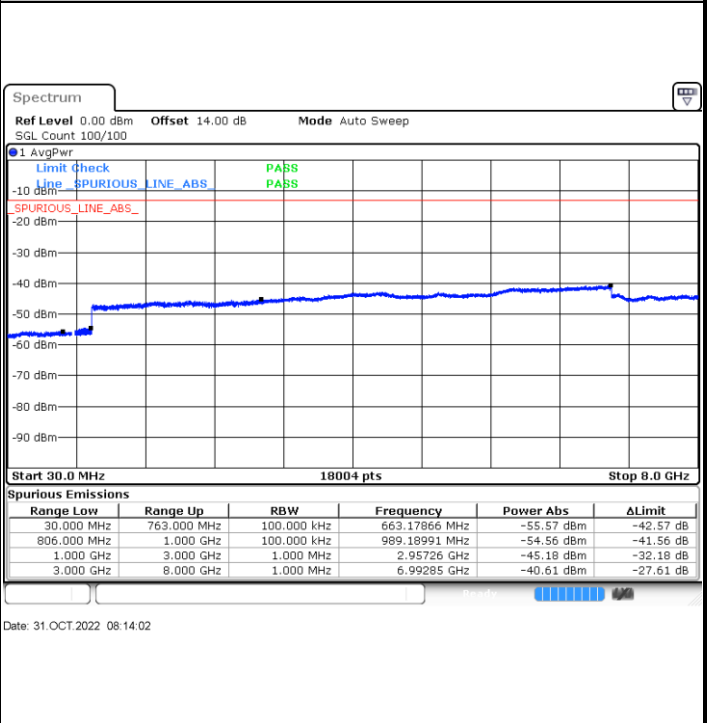


LTE Band 13 / 5MHz

Highest Channel / QPSK

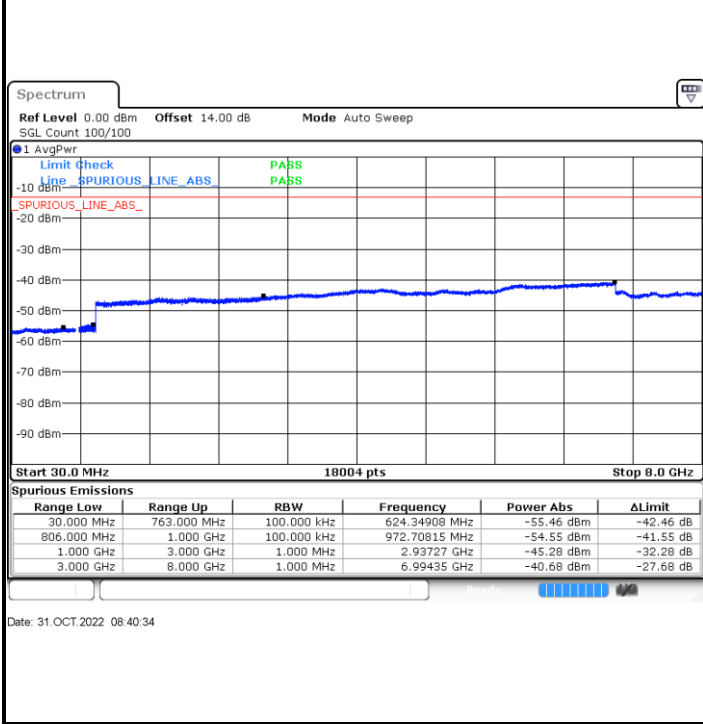


Highest Channel / 16QAM

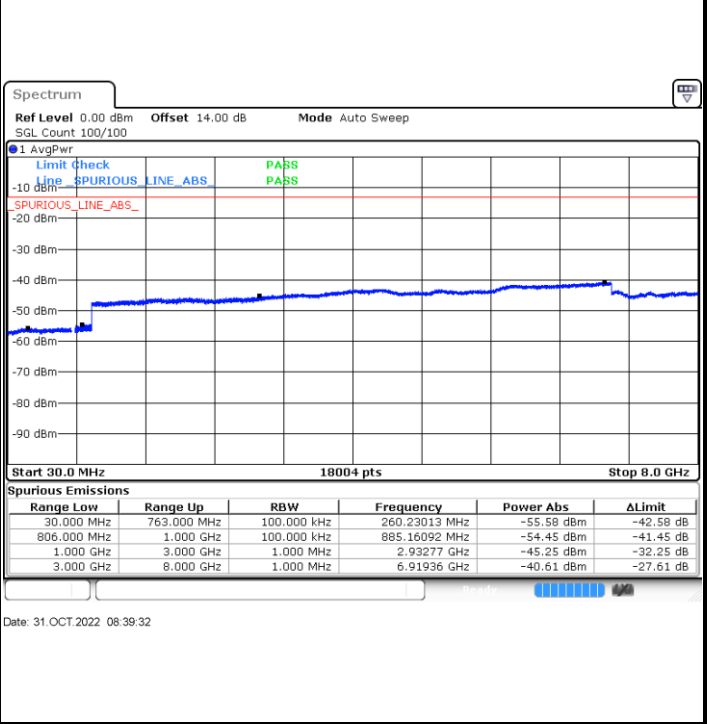


LTE Band 13 / 10MHz

Middle Channel / QPSK



Middle Channel / 16QAM

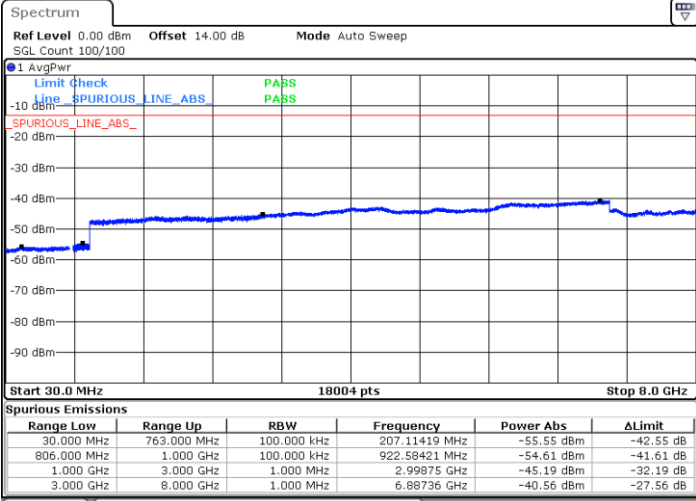




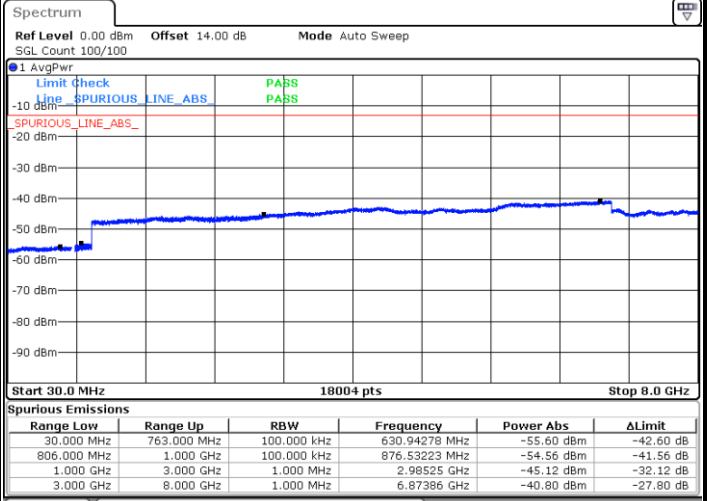
LTE Band 13 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

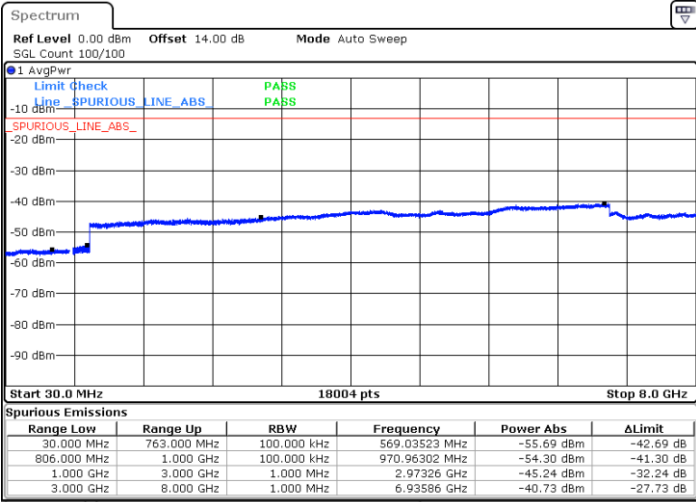


Date: 31.OCT.2022 08:19:08



Date: 31.OCT.2022 08:20:10

Highest Channel / 64QAM

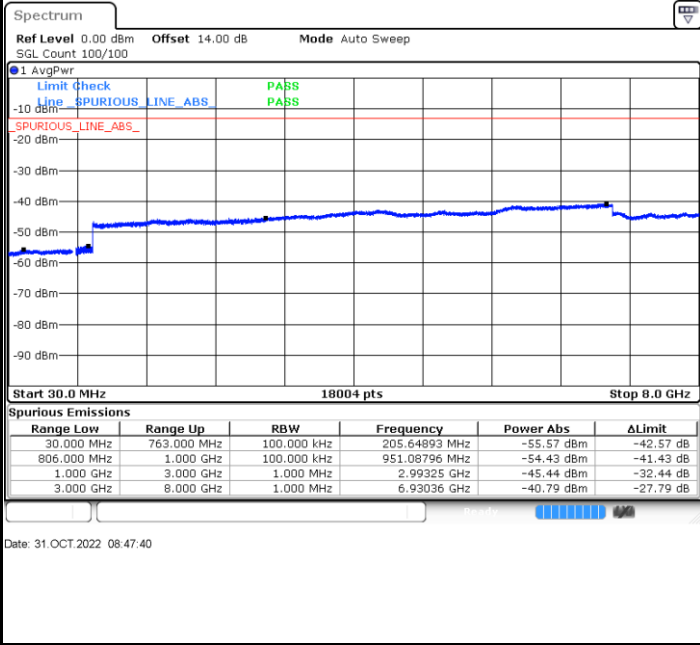


Date: 31.OCT.2022 08:26:04



LTE Band 13 / 10MHz

Middle Channel / 64QAM





Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0114	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0101	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

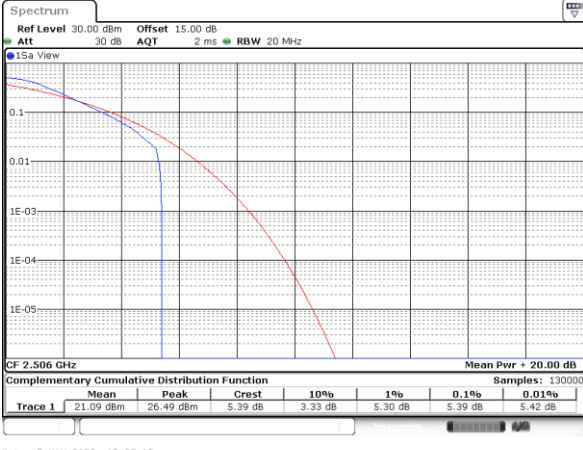
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.39	6.72	5.68	6.23	PASS
Middle CH	5.36	6.93	5.91	6.52	
Highest CH	5.07	6.23	5.42	7.33	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.42	6.41	-	-	PASS
Middle CH	6.26	6.64	-	-	
Highest CH	5.80	6.70	-	-	



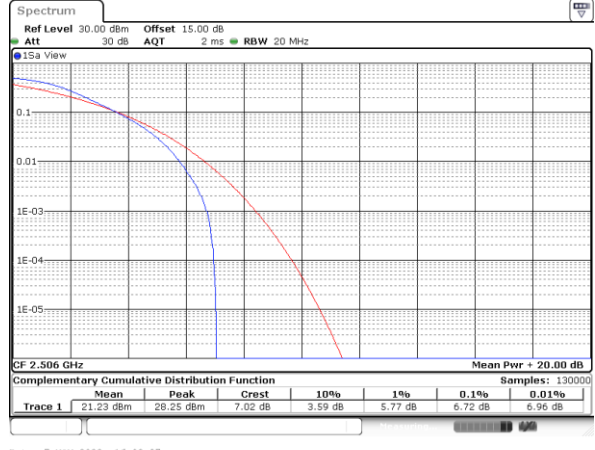
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



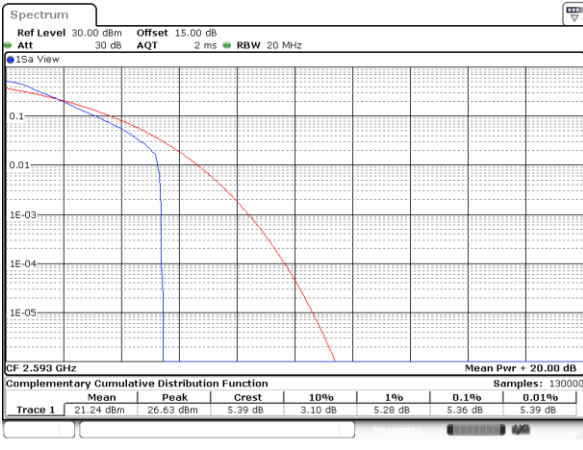
Date: 7,NOV,2022 15:59:15

Lowest Channel / Full RB



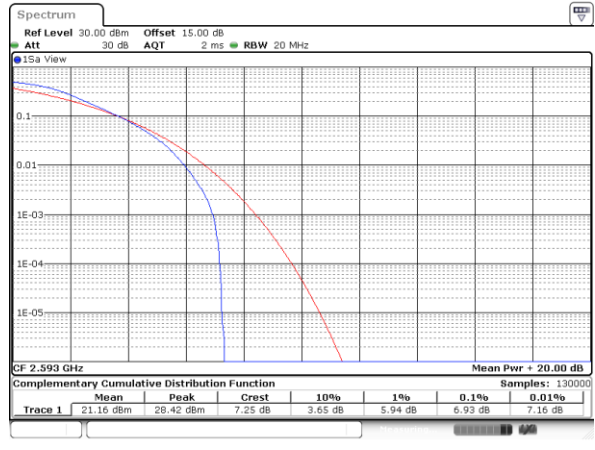
Date: 7,NOV,2022 16:02:37

Middle Channel / 1RB



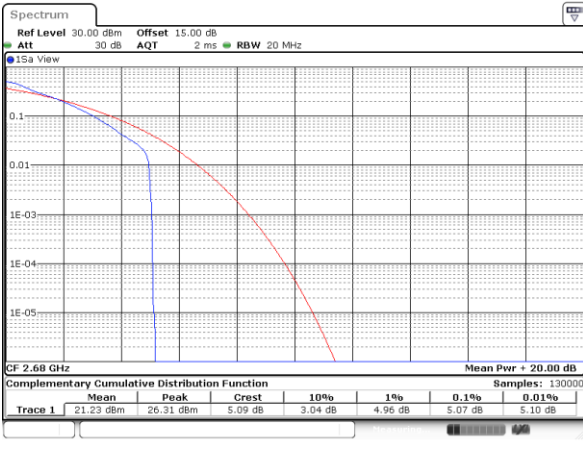
Date: 7,NOV,2022 16:06:09

Middle Channel / Full RB



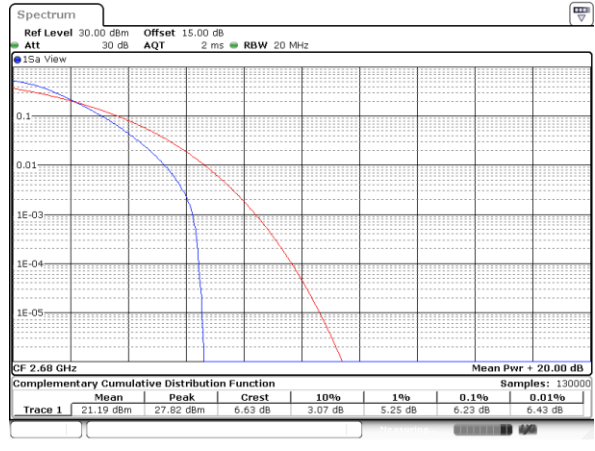
Date: 7,NOV,2022 16:03:10

Highest Channel / 1RB



Date: 7,NOV,2022 16:06:38

Highest Channel / Full RB

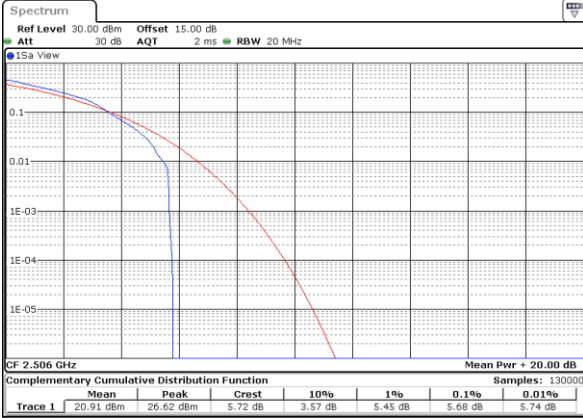


Date: 7,NOV,2022 16:10:18



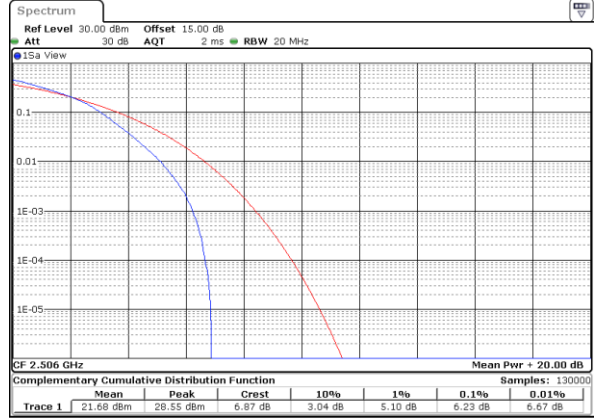
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



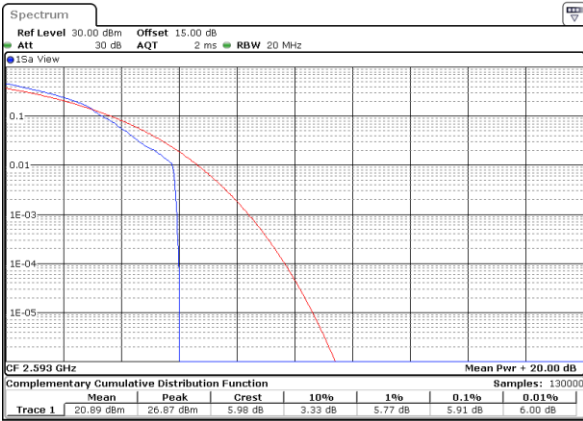
Date: 7,NOV,2022 15:59:51

Lowest Channel / Full RB



Date: 7,NOV,2022 16:02:08

Middle Channel / 1RB



Date: 7,NOV,2022 16:05:35

Middle Channel / Full RB



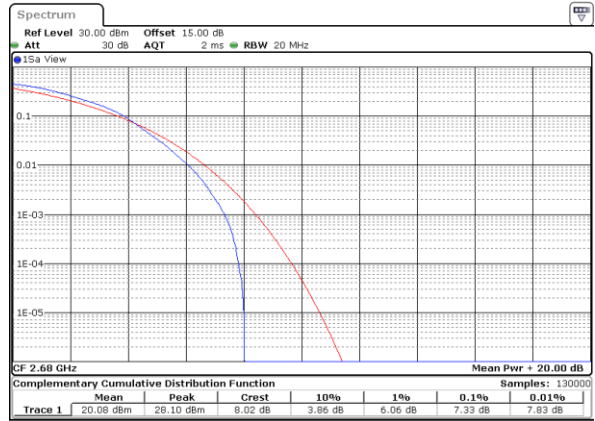
Date: 7,NOV,2022 16:03:43

Highest Channel / 1RB



Date: 7,NOV,2022 16:08:11

Highest Channel / Full RB

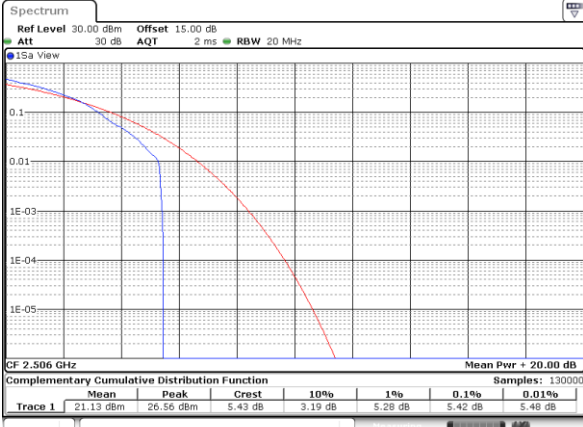


Date: 7,NOV,2022 16:09:52



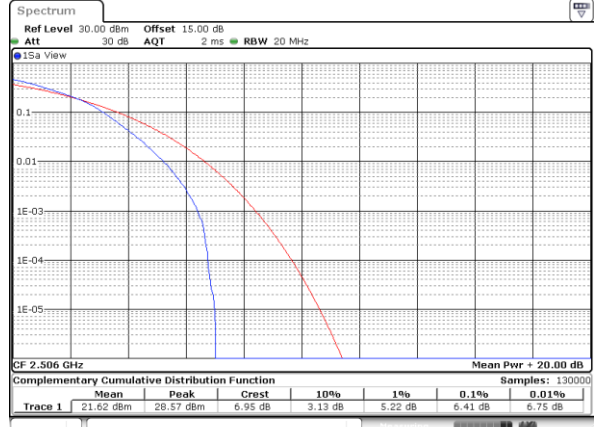
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



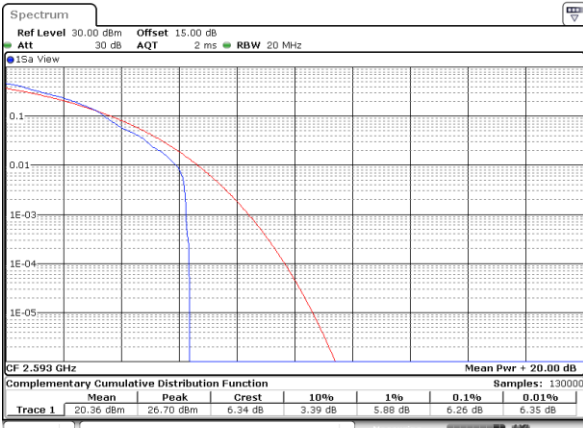
Date: 7,NOV,2022 16:00:30

Lowest Channel / Full RB



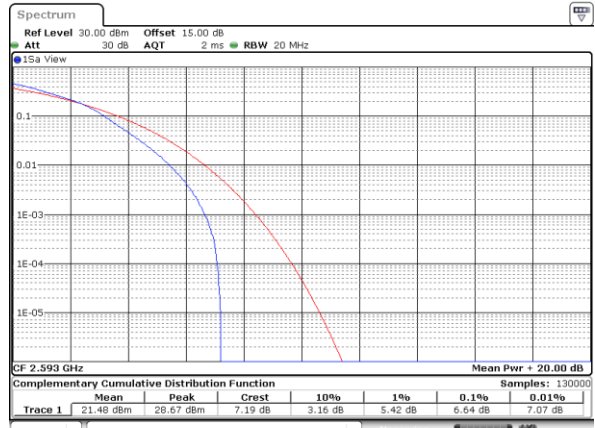
Date: 7,NOV,2022 16:01:12

Middle Channel / 1RB



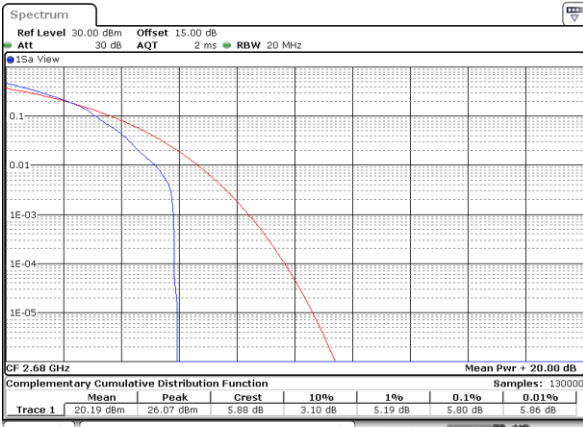
Date: 7,NOV,2022 16:05:06

Middle Channel / Full RB



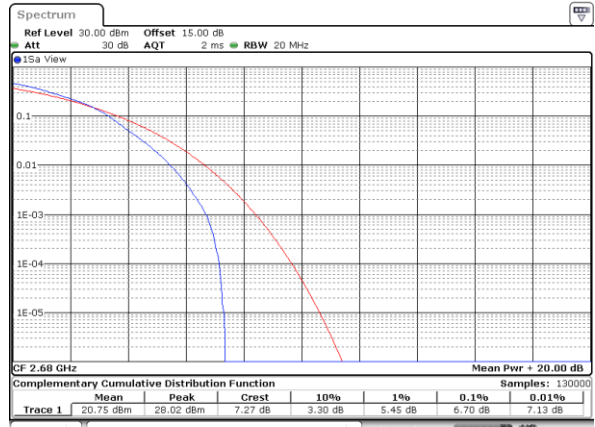
Date: 7,NOV,2022 16:04:38

Highest Channel / 1RB



Date: 7,NOV,2022 16:08:55

Highest Channel / Full RB



Date: 7,NOV,2022 16:09:26



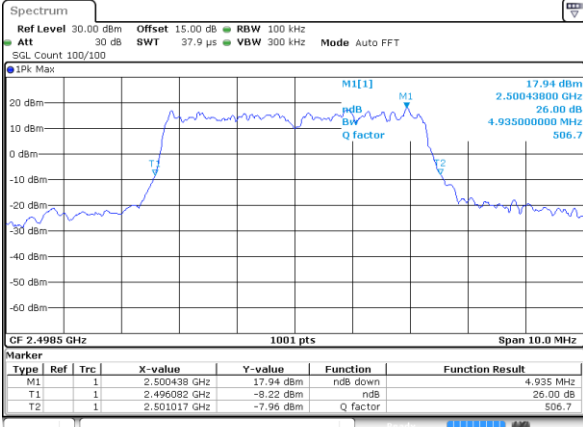
26dB Bandwidth

Mode	LTE Band 41 : 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	-	-	-	-	4.94	4.85	9.81	10.21	14.27	14.36	18.94	19.38
Middle CH	-	-	-	-	4.95	5.02	9.65	9.89	14.27	14.45	18.82	18.94
Highest CH	-	-	-	-	4.84	4.83	9.95	9.79	14.54	14.33	19.22	19.10
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	5.06	-	9.93	-	14.33	-	19.06	-
Middle CH	-	-	-	-	4.77	-	9.75	-	14.39	-	18.70	-
Highest CH	-	-	-	-	5.05	-	9.77	-	14.57	-	19.22	-



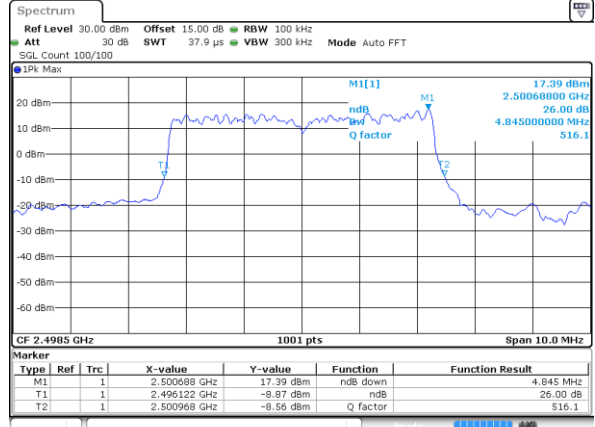
LTE Band 41

Lowest Channel / 5MHz / QPSK



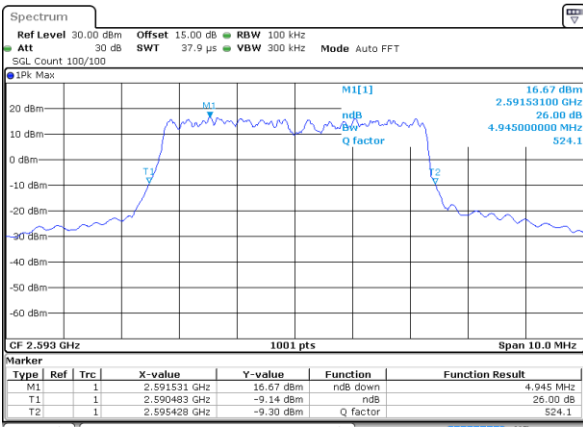
Date: 31.OCT.2022 22:31:00

Lowest Channel / 5MHz / 16QAM



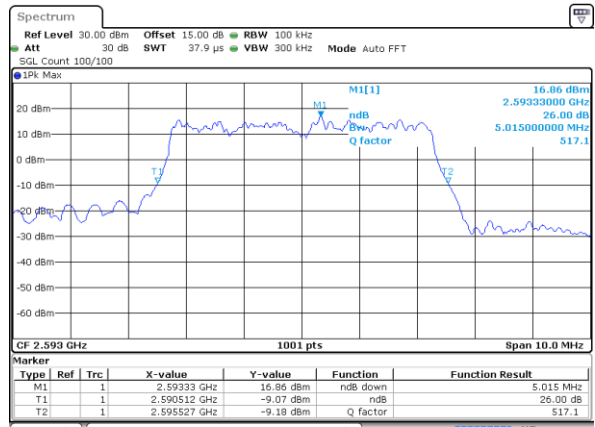
Date: 31.OCT.2022 22:31:54

Middle Channel / 5MHz / QPSK



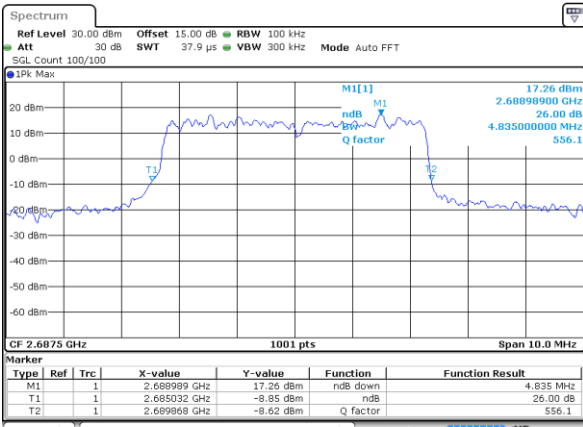
Date: 31.OCT.2022 22:34:30

Middle Channel / 5MHz / 16QAM



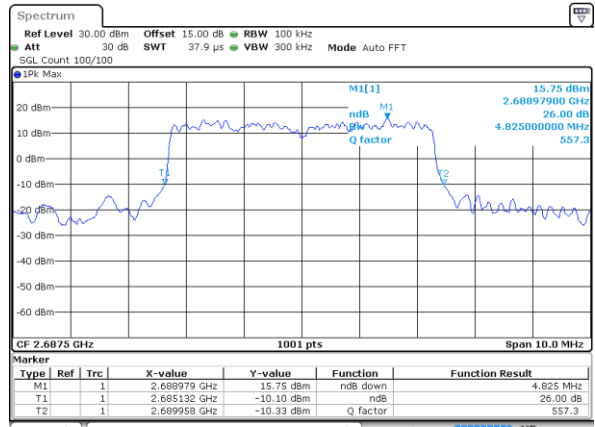
Date: 31.OCT.2022 22:35:19

Highest Channel / 5MHz / QPSK



Date: 31.OCT.2022 22:37:07

Highest Channel / 5MHz / 16QAM

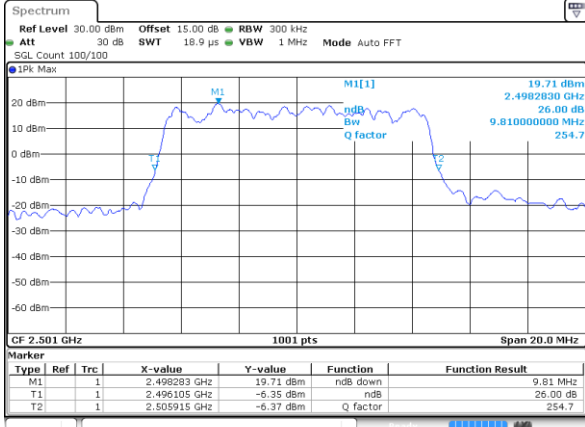


Date: 31.OCT.2022 22:37:43



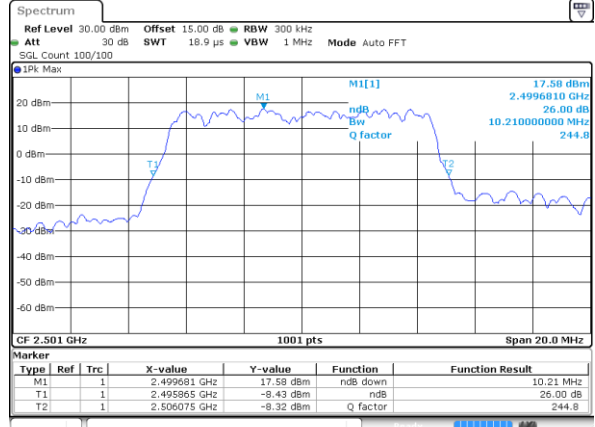
LTE Band 41

Lowest Channel / 10MHz / QPSK



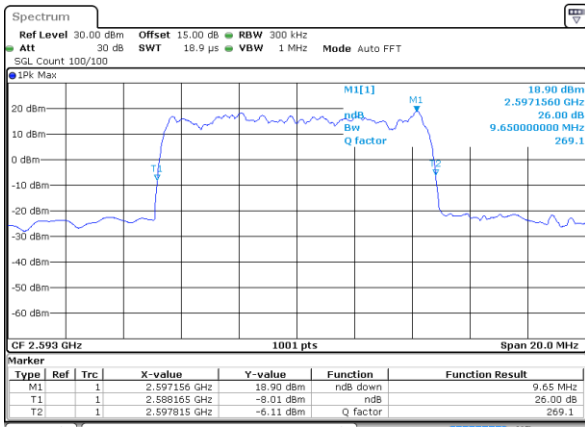
Date: 31.OCT.2022 22:39:31

Lowest Channel / 10MHz / 16QAM



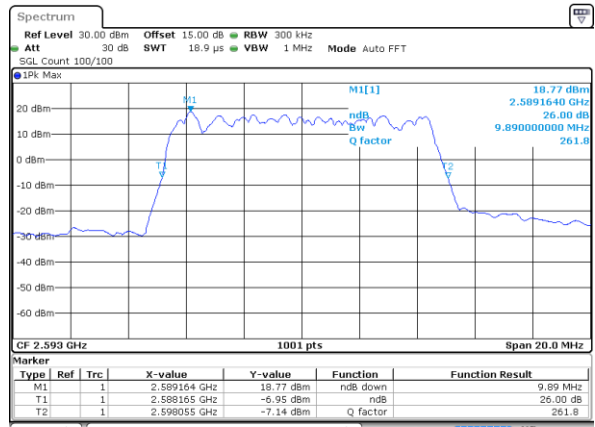
Date: 31.OCT.2022 22:40:07

Middle Channel / 10MHz / QPSK



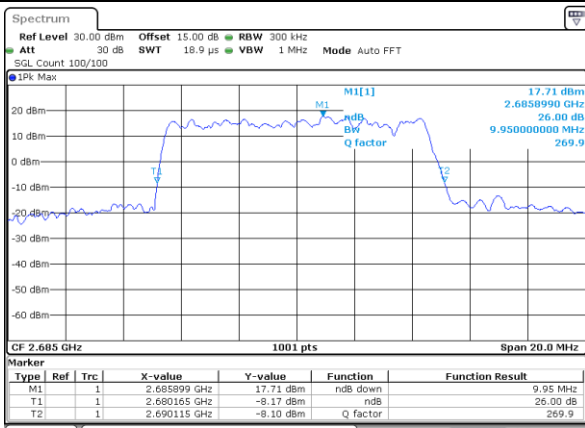
Date: 31.OCT.2022 22:42:38

Middle Channel / 10MHz / 16QAM



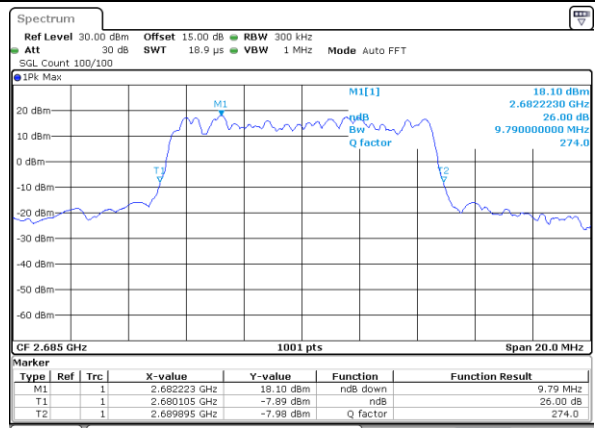
Date: 31.OCT.2022 22:43:31

Highest Channel / 10MHz / QPSK



Date: 31.OCT.2022 22:45:55

Highest Channel / 10MHz / 16QAM

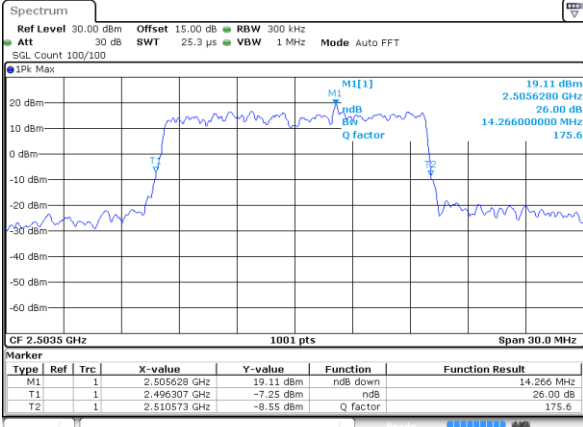


Date: 31.OCT.2022 22:46:50



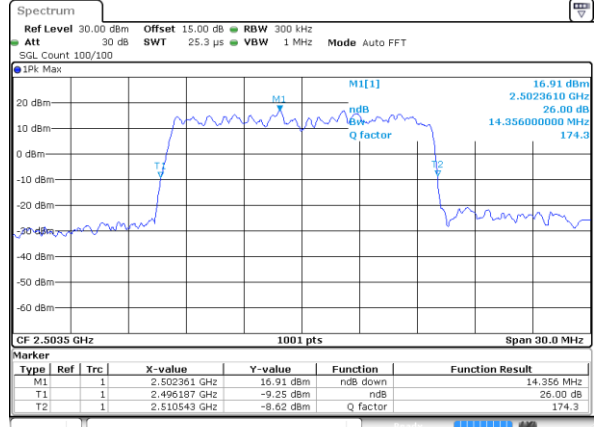
LTE Band 41

Lowest Channel / 15MHz / QPSK



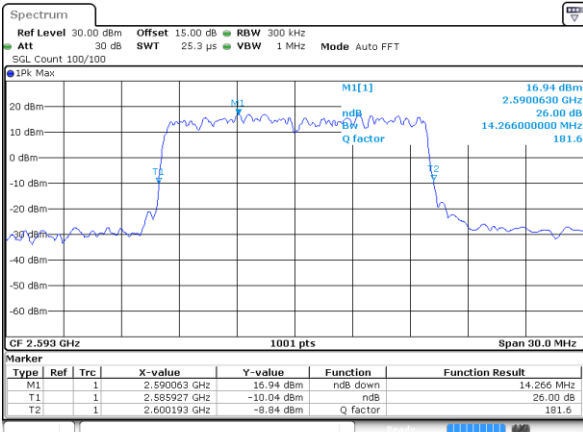
Date: 31.OCT.2022 22:48:38

Lowest Channel / 15MHz / 16QAM



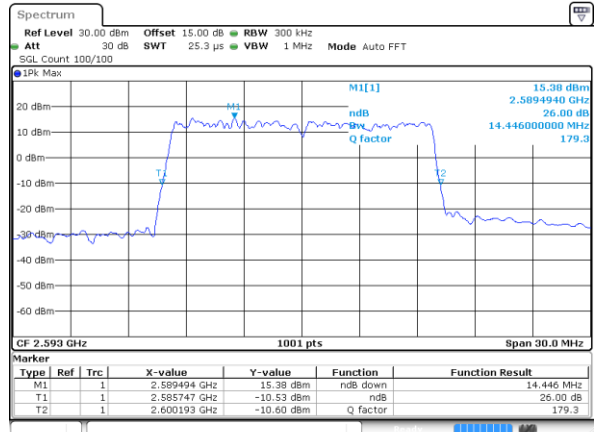
Date: 31.OCT.2022 22:49:32

Middle Channel / 15MHz / QPSK



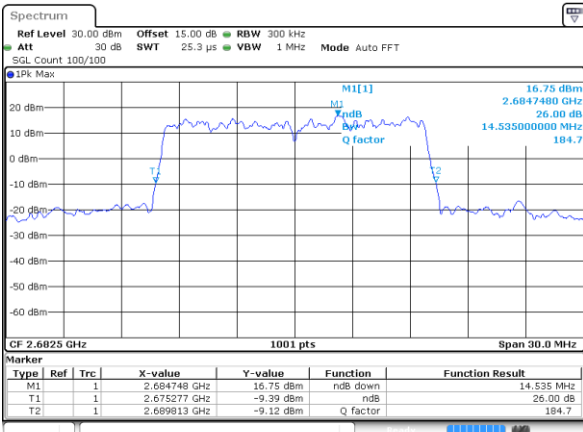
Date: 31.OCT.2022 22:52:08

Middle Channel / 15MHz / 16QAM



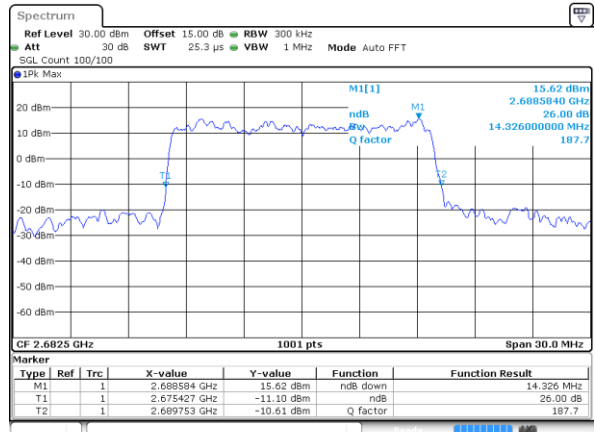
Date: 31.OCT.2022 22:53:02

Highest Channel / 15MHz / QPSK



Date: 31.OCT.2022 22:55:03

Highest Channel / 15MHz / 16QAM

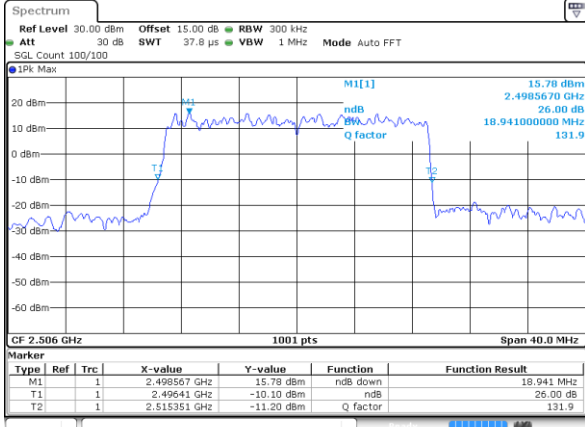


Date: 31.OCT.2022 22:55:38



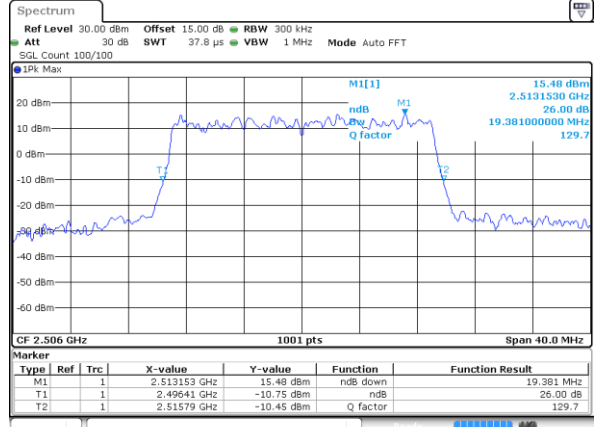
LTE Band 41

Lowest Channel / 20MHz / QPSK



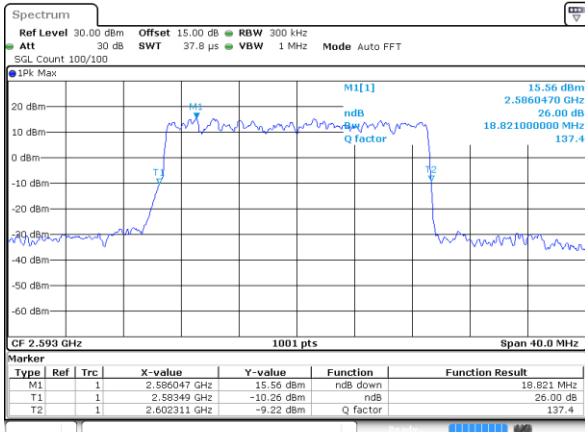
Date: 31.OCT.2022 22:57:27

Lowest Channel / 20MHz / 16QAM



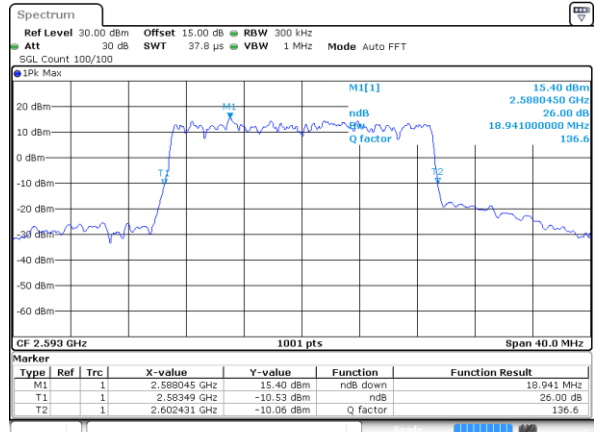
Date: 31.OCT.2022 22:58:03

Middle Channel / 20MHz / QPSK



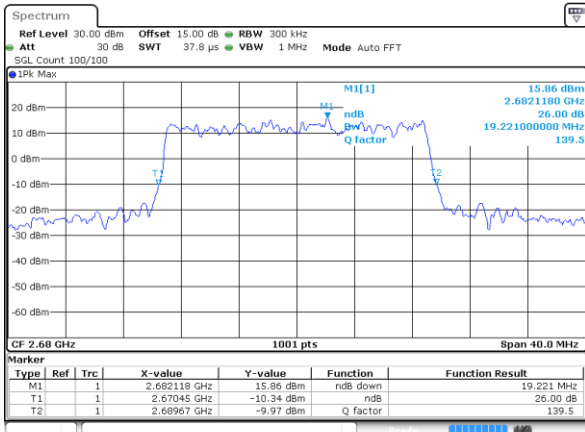
Date: 31.OCT.2022 23:00:14

Middle Channel / 20MHz / 16QAM



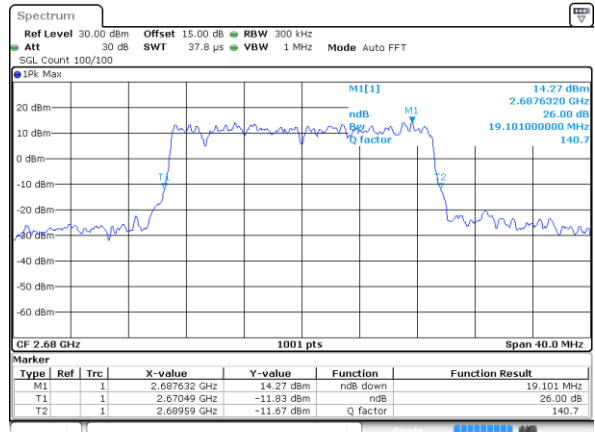
Date: 31.OCT.2022 23:00:57

Highest Channel / 20MHz / QPSK



Date: 31.OCT.2022 23:03:03

Highest Channel / 20MHz / 16QAM

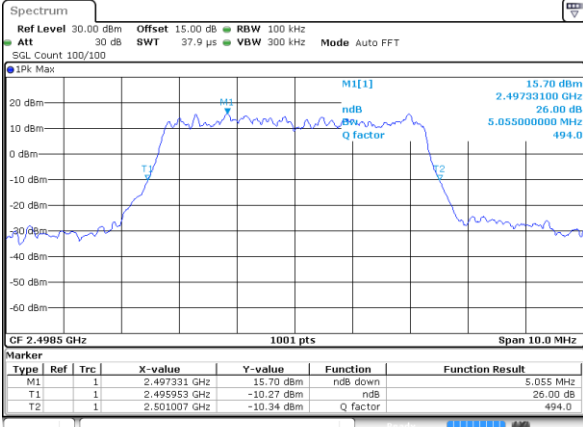


Date: 31.OCT.2022 23:03:57



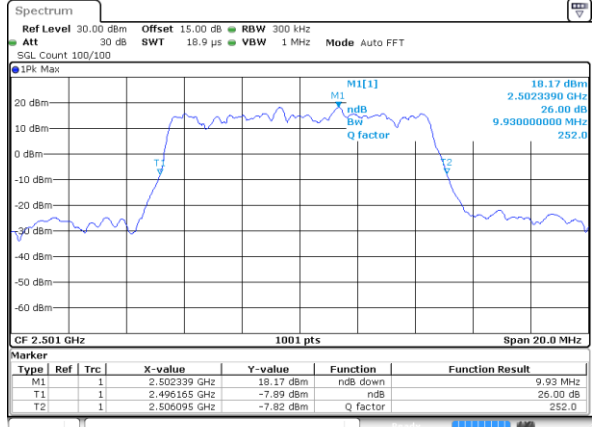
LTE Band 41

Lowest Channel / 5MHz / 64QAM



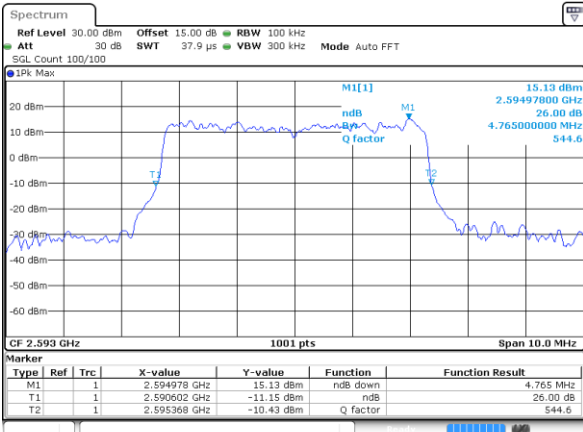
Date: 31.OCT.2022 23:04:48

Lowest Channel / 10MHz / 64QAM



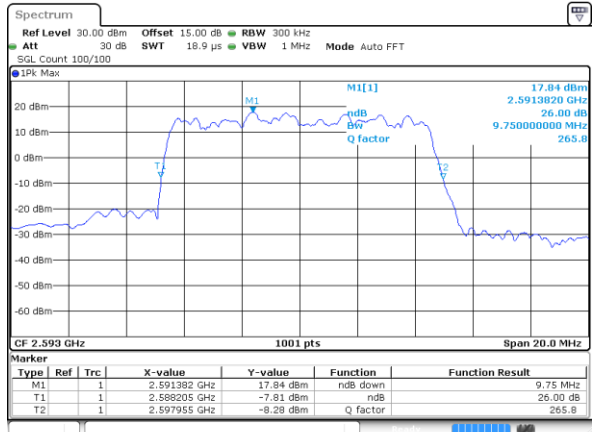
Date: 31.OCT.2022 23:07:19

Middle Channel / 5MHz / 64QAM



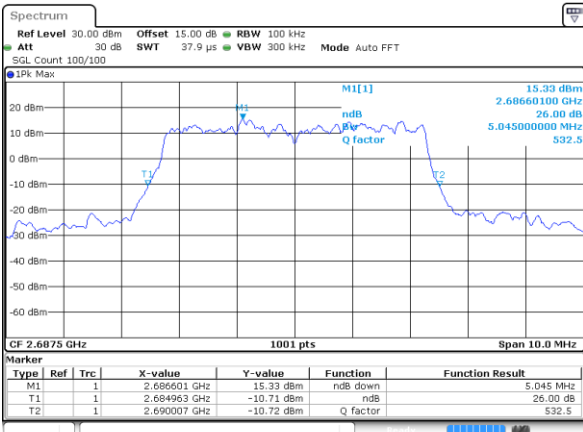
Date: 31.OCT.2022 23:05:37

Middle Channel / 10MHz / 64QAM



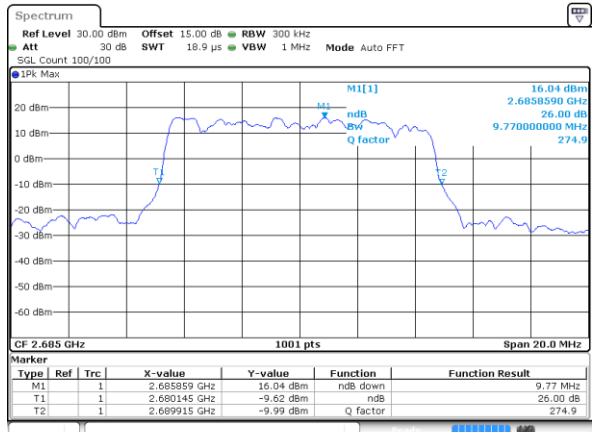
Date: 31.OCT.2022 23:08:07

Highest Channel / 5MHz / 64QAM



Date: 31.OCT.2022 23:06:25

Highest Channel / 10MHz / 64QAM

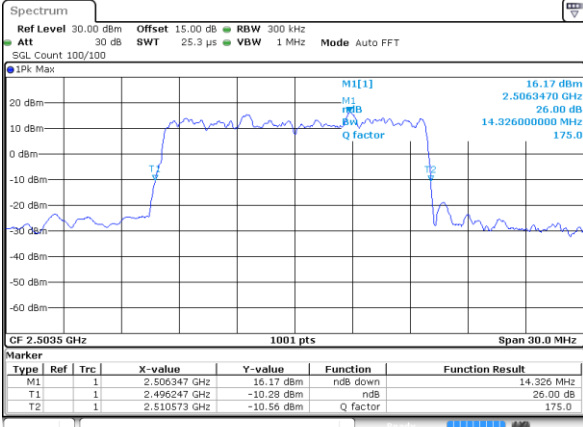


Date: 31.OCT.2022 23:08:55



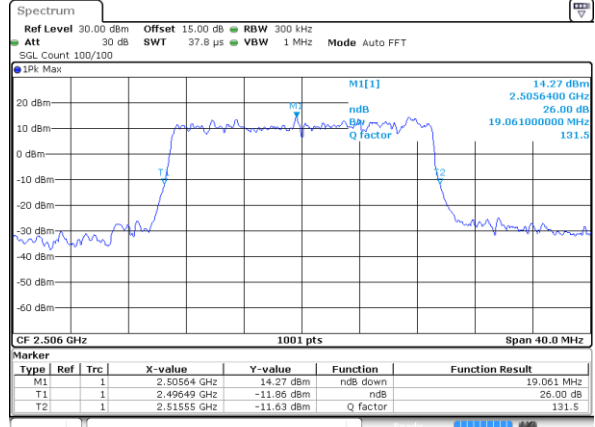
LTE Band 41

Lowest Channel / 15MHz / 64QAM



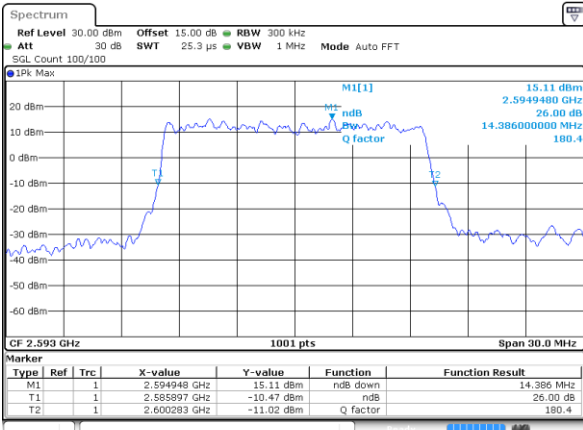
Date: 31.OCT.2022 23:09:49

Lowest Channel / 20MHz / 64QAM



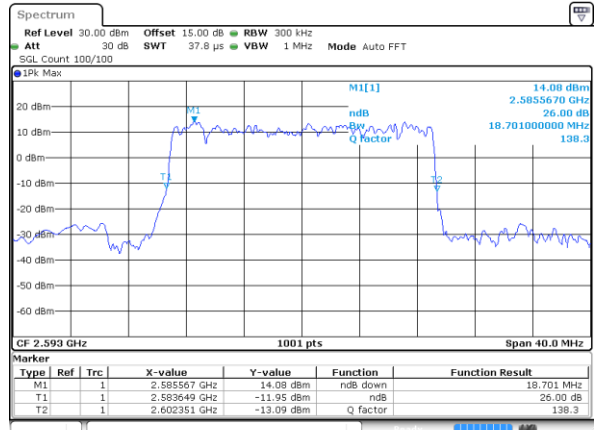
Date: 31.OCT.2022 23:12:19

Middle Channel / 15MHz / 64QAM



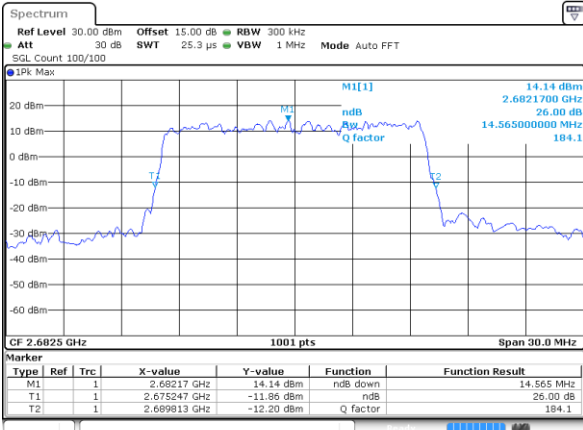
Date: 31.OCT.2022 23:10:42

Middle Channel / 20MHz / 64QAM



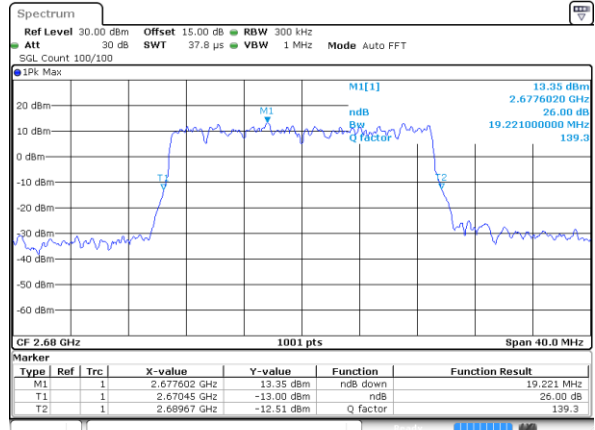
Date: 31.OCT.2022 23:13:13

Highest Channel / 15MHz / 64QAM



Date: 31.OCT.2022 23:11:30

Highest Channel / 20MHz / 64QAM



Date: 31.OCT.2022 23:14:01



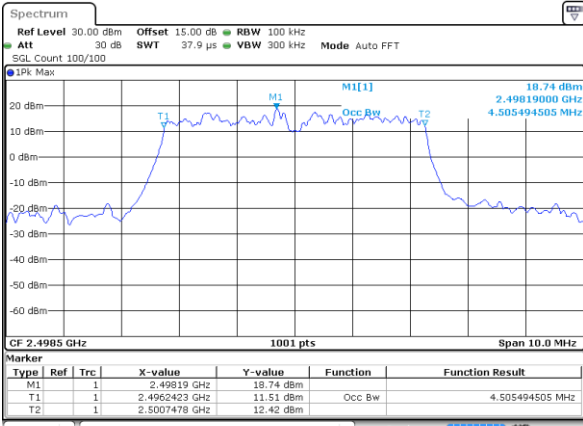
Occupied Bandwidth

Mode	LTE Band 41 : 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	-	-	-	-	4.51	4.49	9.05	9.01	13.52	13.46	17.90	17.82
Middle CH	-	-	-	-	4.51	4.49	9.07	9.05	13.46	13.43	17.90	17.94
Highest CH	-	-	-	-	4.49	4.52	9.07	9.13	13.46	13.37	17.94	17.98
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	9.01	-	13.40	-	17.86	-
Middle CH	-	-	-	-	4.50	-	9.07	-	13.49	-	17.94	-
Highest CH	-	-	-	-	4.47	-	9.03	-	13.46	-	17.94	-



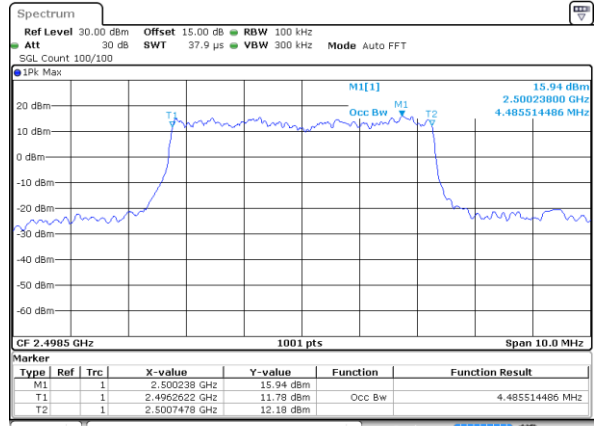
LTE Band 41

Lowest Channel / 5MHz / QPSK



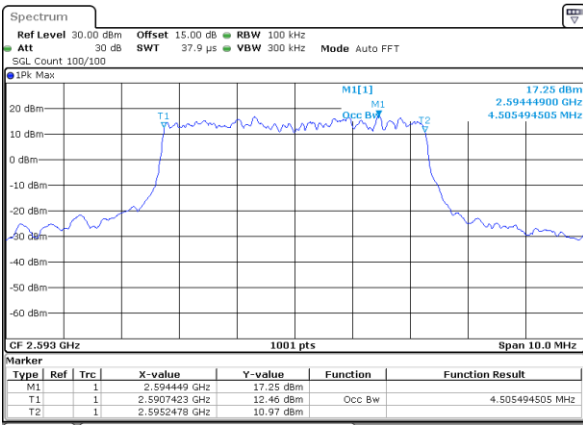
Date: 31.OCT.2022 22:29:48

Lowest Channel / 5MHz / 16QAM



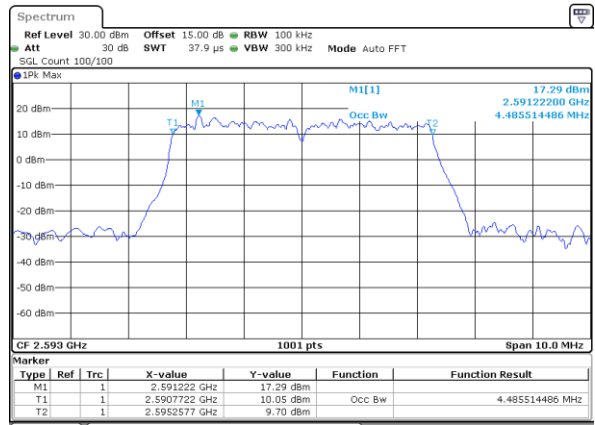
Date: 31.OCT.2022 22:30:24

Middle Channel / 5MHz / QPSK



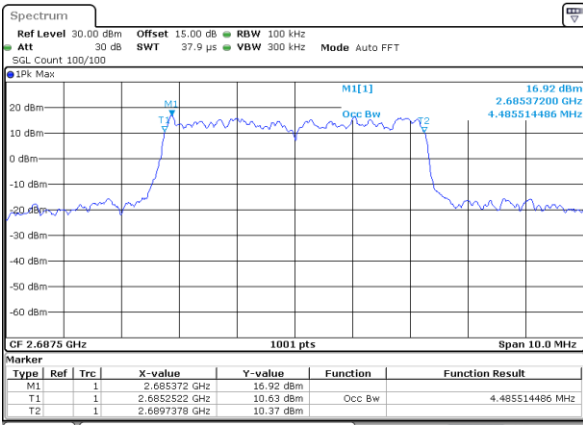
Date: 31.OCT.2022 22:32:48

Middle Channel / 5MHz / 16QAM



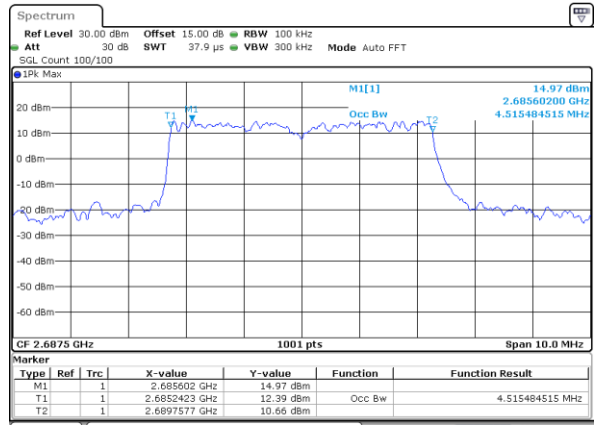
Date: 31.OCT.2022 22:33:36

Highest Channel / 5MHz / QPSK



Date: 31.OCT.2022 22:35:54

Highest Channel / 5MHz / 16QAM



Date: 31.OCT.2022 22:36:31