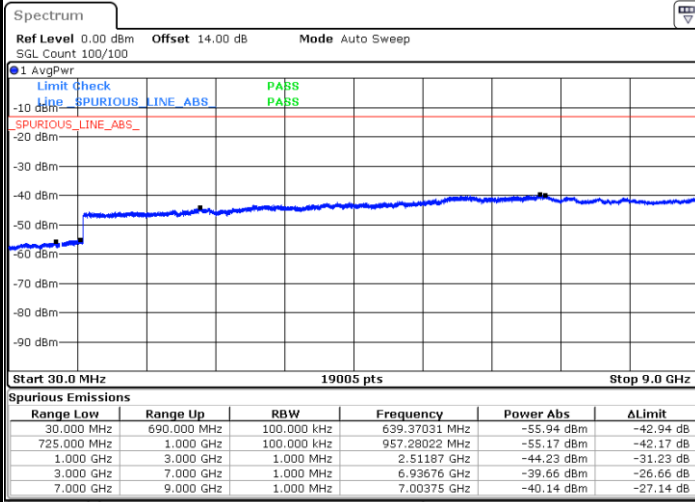




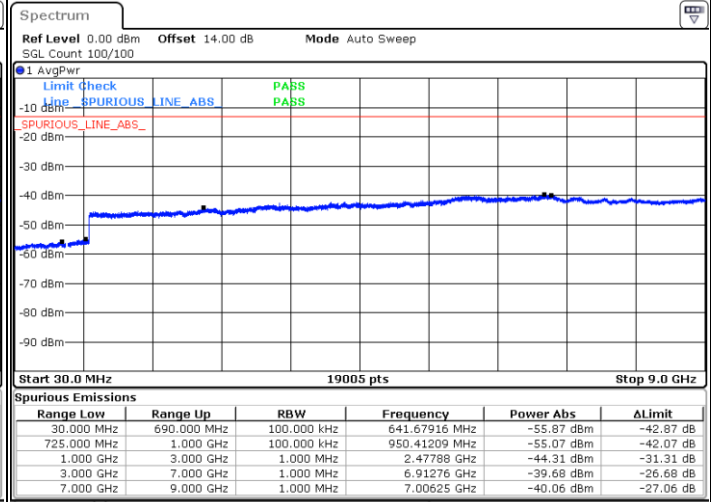
LTE Band 12 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

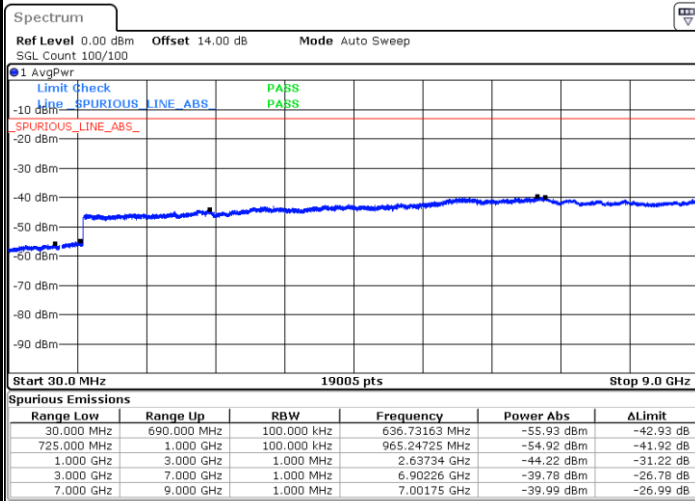


Date: 16.MAY.2023 15:47:34



Date: 16.MAY.2023 15:48:37

Highest Channel / 64QAM



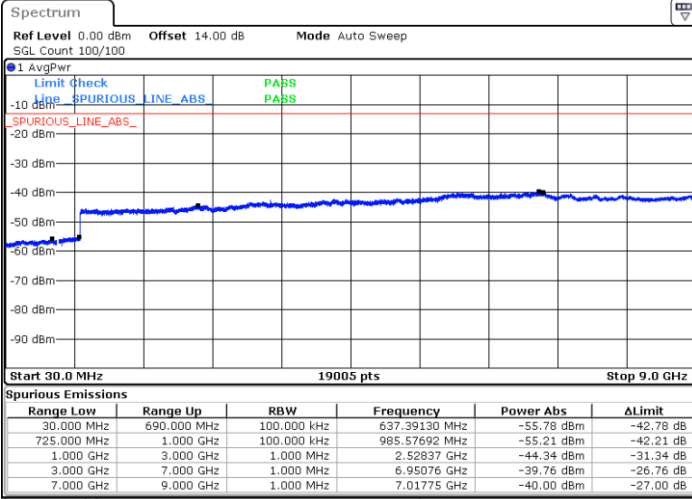
Date: 16.MAY.2023 15:51:47



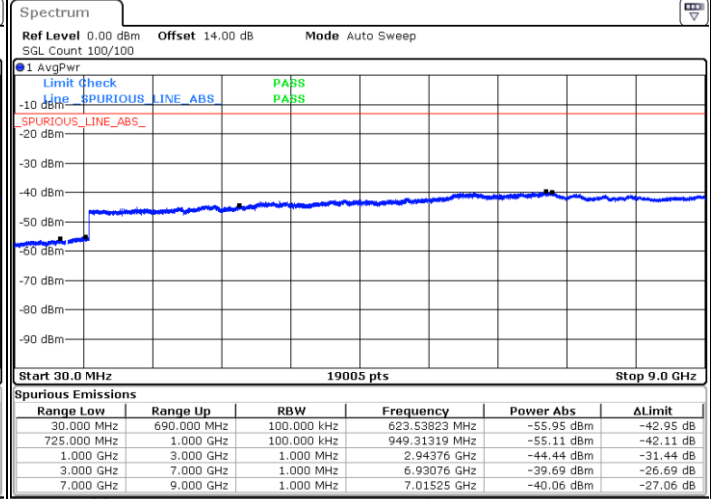
LTE Band 12 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

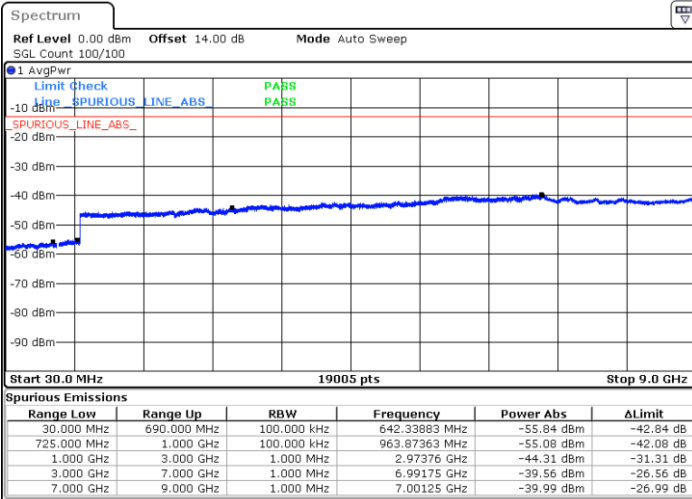


Date: 16.MAY.2023 15:54:47



Date: 16.MAY.2023 15:55:49

Highest Channel / 64QAM



Date: 16.MAY.2023 15:58:58



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0103	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0105	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0102	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

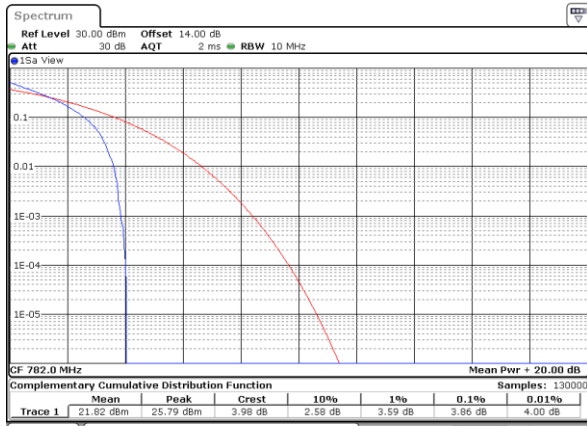
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.86	4.90	4.55	6.00	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.16	6.38	-	-	
Highest CH	-	-	-	-	



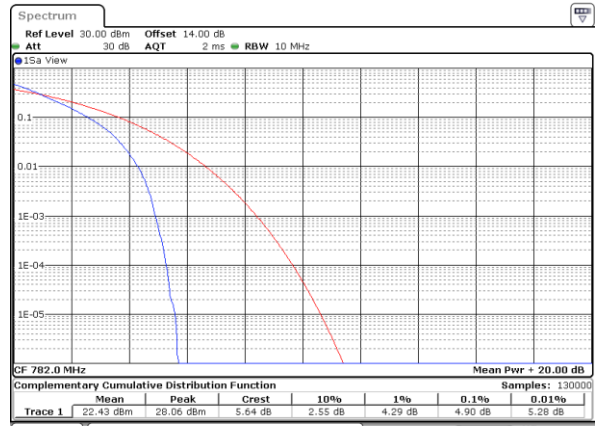
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 16.MAY.2023 16:53:43

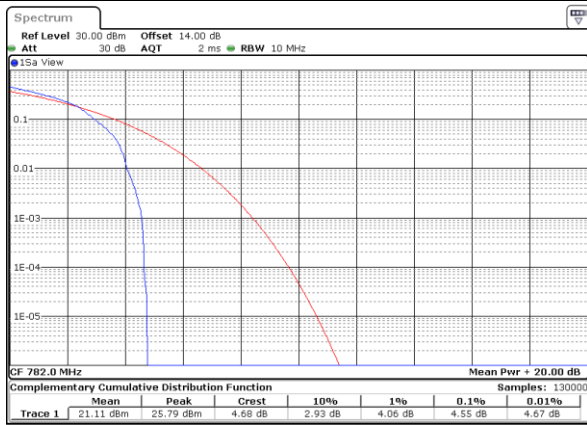
Middle Channel / Full RB



Date: 16.MAY.2023 16:54:08

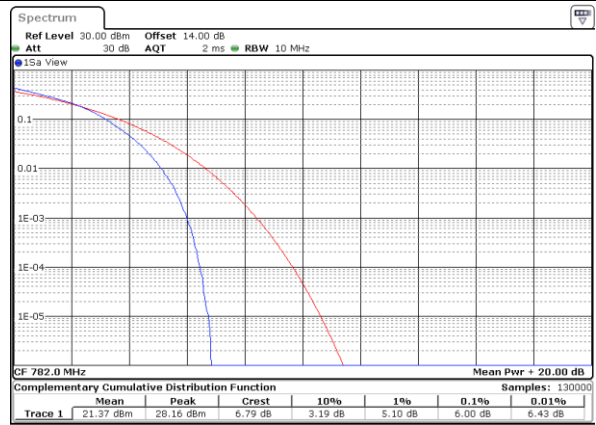
LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 16.MAY.2023 16:52:52

Middle Channel / Full RB



Date: 16.MAY.2023 16:53:17

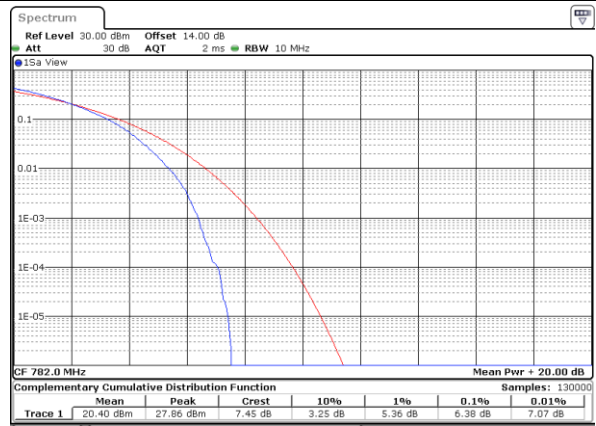
LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 16.MAY.2023 16:52:01

Middle Channel / Full RB



Date: 16.MAY.2023 16:52:26



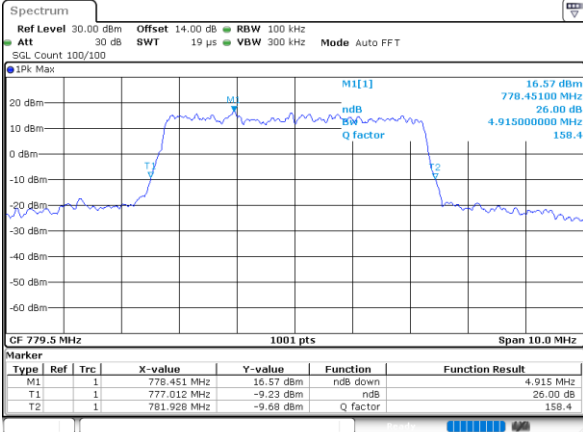
26dB Bandwidth

Mode	LTE Band 13 : 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	-	-	-	-	4.92	4.84	-	-	-	-	-	-
Middle CH	-	-	-	-	4.86	4.86	9.87	9.69	-	-	-	-
Highest CH	-	-	-	-	4.88	4.84	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.83	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.80	-	9.71	-	-	-	-	-
Highest CH	-	-	-	-	4.90	-	-	-	-	-	-	-



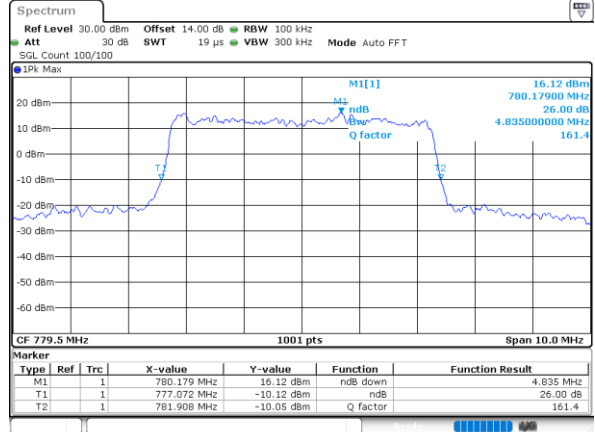
LTE Band 13

Lowest Channel / 5MHz / QPSK



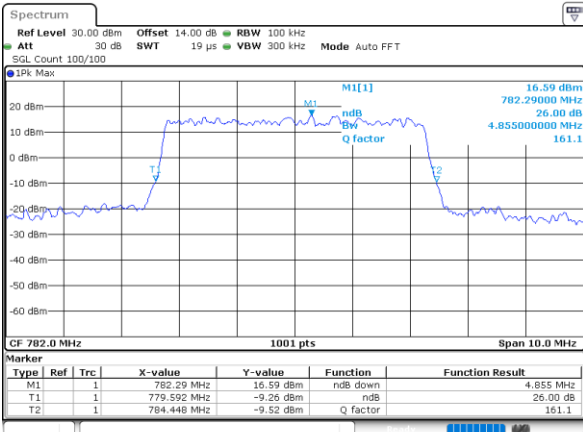
Date: 16.MAY.2023 16:44:44

Lowest Channel / 5MHz / 16QAM



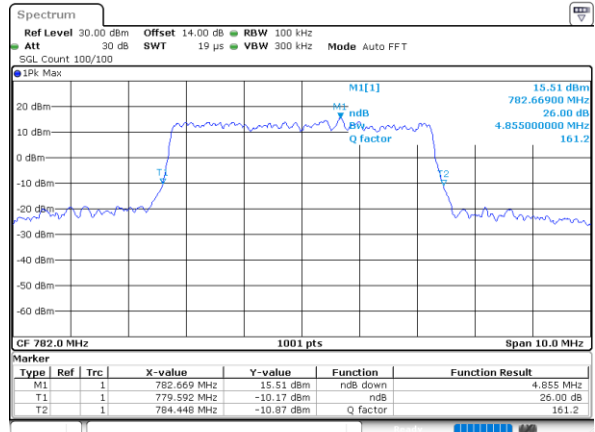
Date: 16.MAY.2023 16:44:20

Middle Channel / 5MHz / QPSK



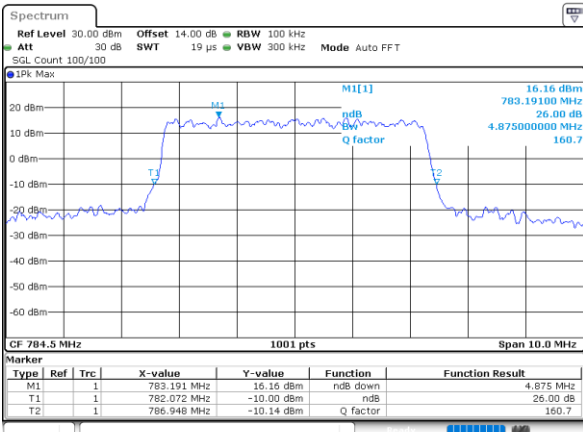
Date: 16.MAY.2023 16:45:08

Middle Channel / 5MHz / 16QAM



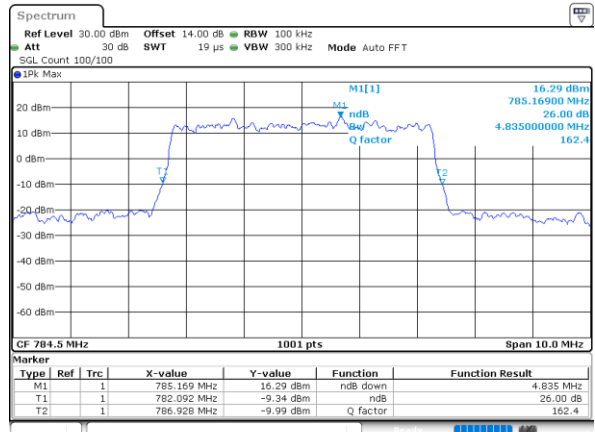
Date: 16.MAY.2023 16:45:32

Highest Channel / 5MHz / QPSK



Date: 16.MAY.2023 16:47:36

Highest Channel / 5MHz / 16QAM

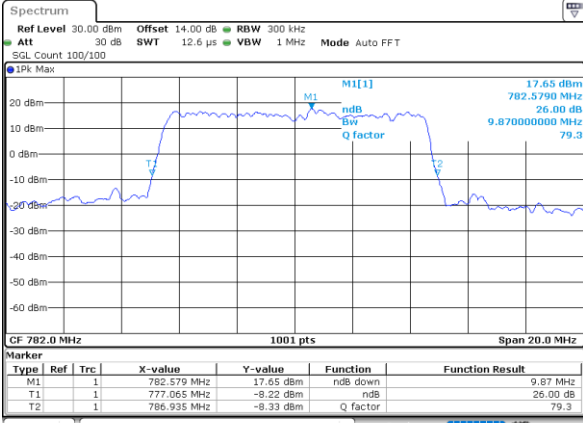


Date: 16.MAY.2023 16:47:12



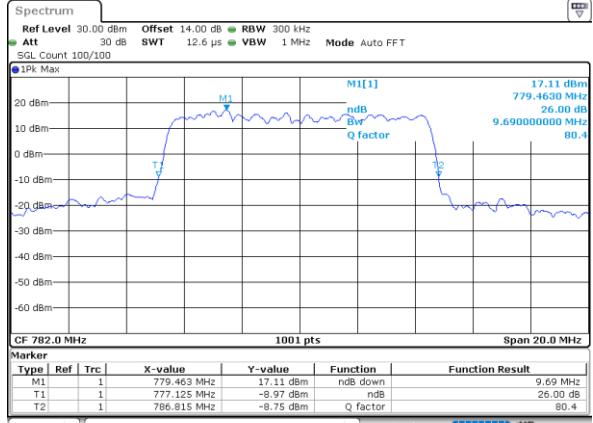
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 16.MAY.2023 16:50:59

Middle Channel / 10MHz / 16QAM

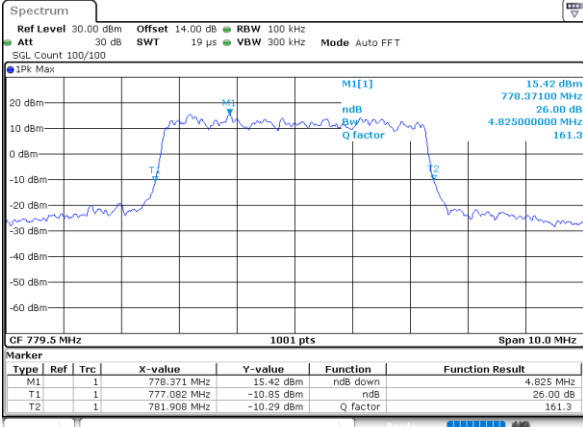


Date: 16.MAY.2023 16:50:34



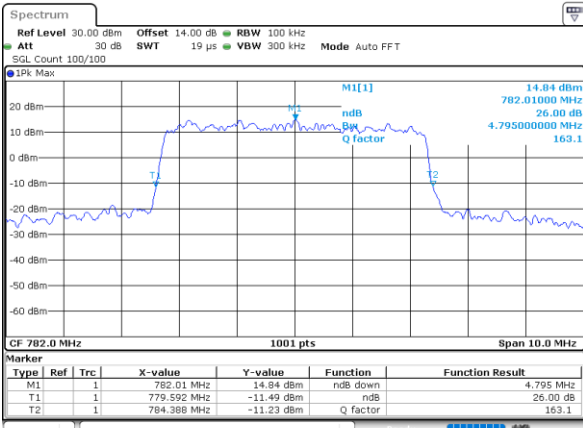
LTE Band 13

Lowest Channel / 5MHz / 64QAM



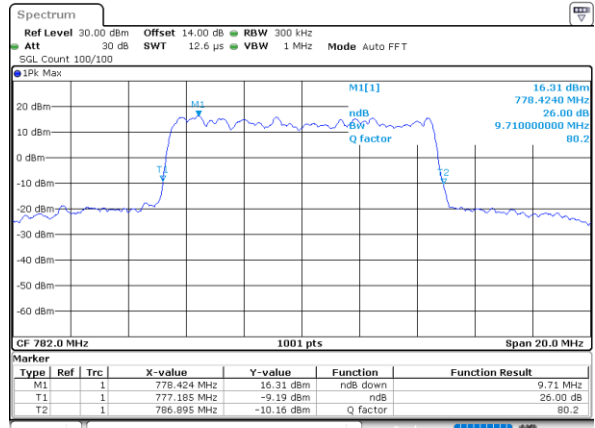
Date: 16.MAY.2023 16:48:15

Middle Channel / 5MHz / 64QAM



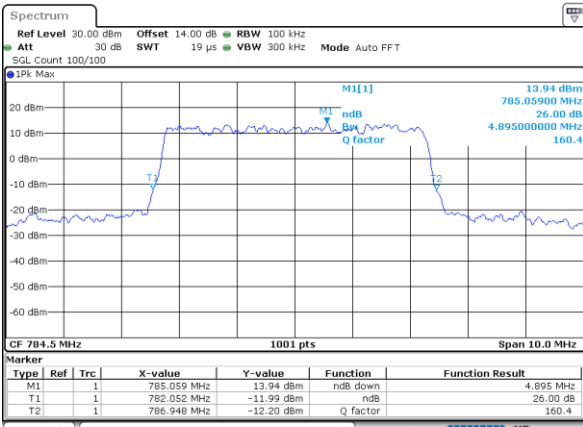
Date: 16.MAY.2023 16:48:39

Middle Channel / 10MHz / 64QAM



Date: 16.MAY.2023 16:51:36

Highest Channel / 5MHz / 64QAM



Date: 16.MAY.2023 16:49:32



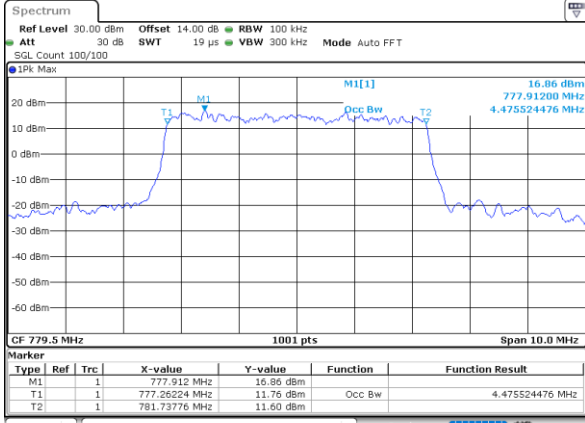
Occupied Bandwidth

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	-	-	-	-	4.48	4.48	-	-	-	-	-	-
Middle CH	-	-	-	-	4.52	4.50	9.03	9.05	-	-	-	-
Highest CH	-	-	-	-	4.48	4.50	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.49	-	-	-	-	-	-	-



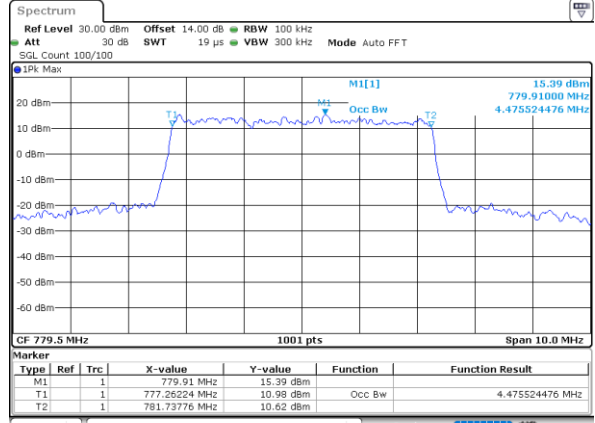
LTE Band 13

Lowest Channel / 5MHz / QPSK



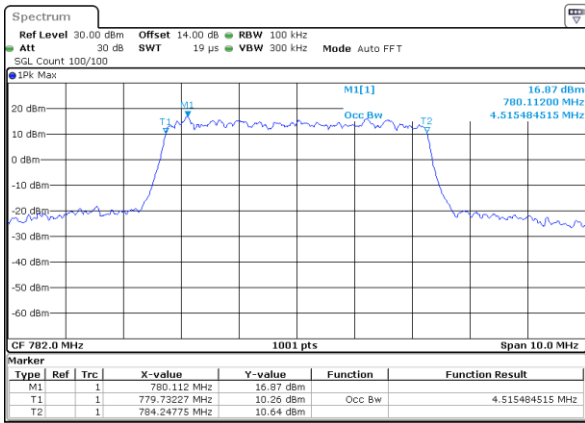
Date: 16.MAY.2023 16:43:42

Lowest Channel / 5MHz / 16QAM



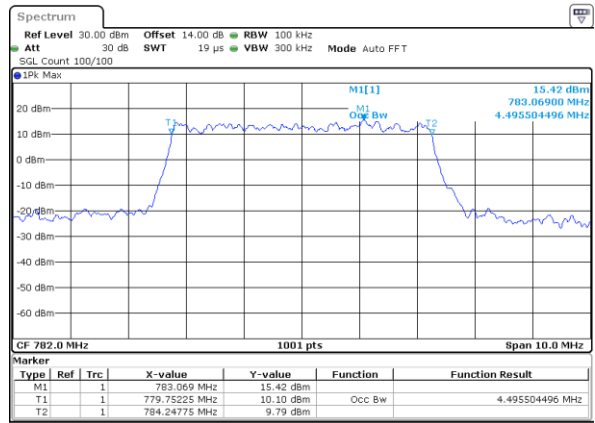
Date: 16.MAY.2023 16:44:06

Middle Channel / 5MHz / QPSK



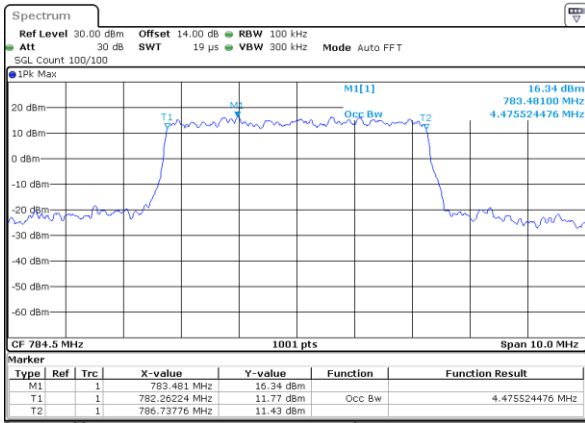
Date: 16.MAY.2023 16:46:10

Middle Channel / 5MHz / 16QAM



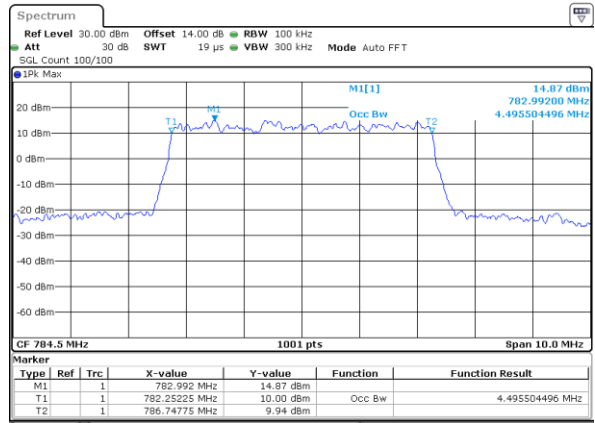
Date: 16.MAY.2023 16:45:46

Highest Channel / 5MHz / QPSK



Date: 16.MAY.2023 16:46:34

Highest Channel / 5MHz / 16QAM

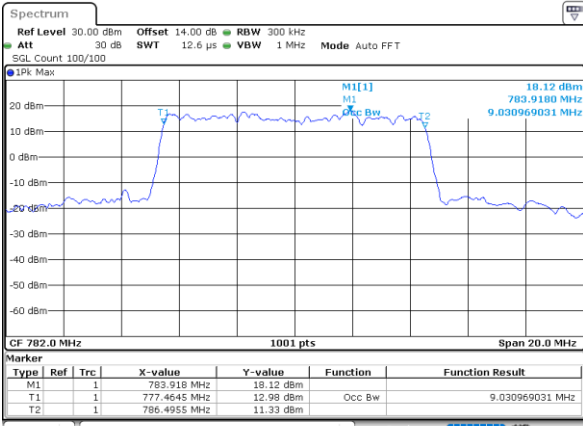


Date: 16.MAY.2023 16:46:58



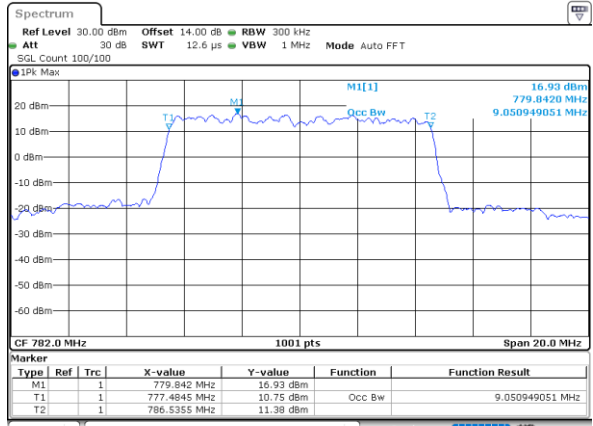
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 16.MAY.2023 16:49:56

Middle Channel / 10MHz / 16QAM

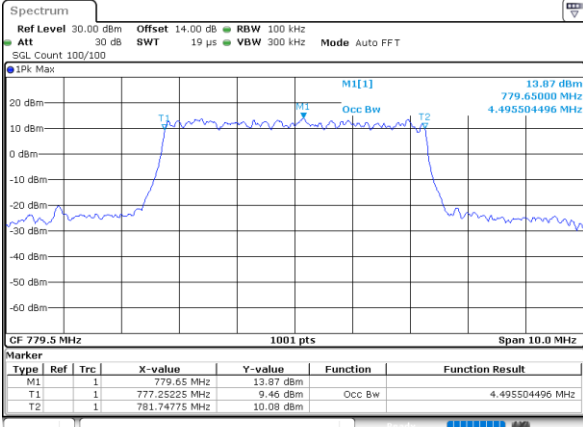


Date: 16.MAY.2023 16:50:20



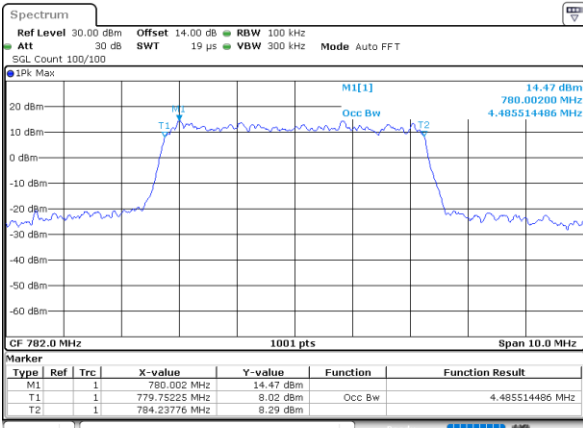
LTE Band 13

Lowest Channel / 5MHz / 64QAM



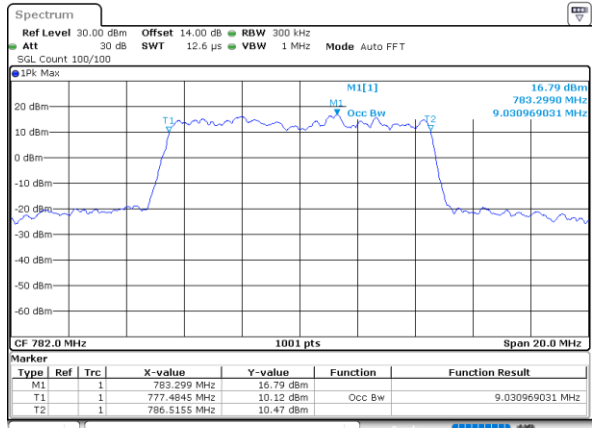
Date: 16.MAY.2023 16:48:00

Middle Channel / 5MHz / 64QAM



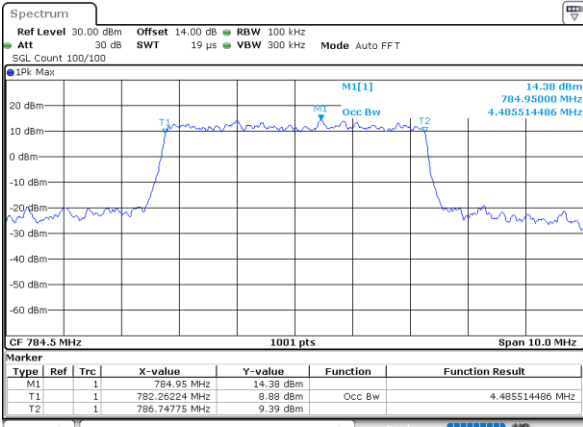
Date: 16.MAY.2023 16:48:03

Middle Channel / 10MHz / 64QAM



Date: 16.MAY.2023 16:51:21

Highest Channel / 5MHz / 64QAM



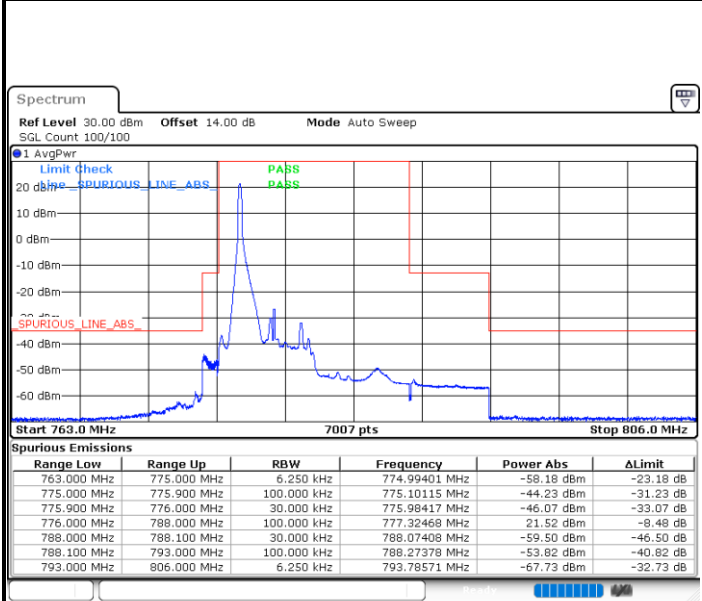
Date: 16.MAY.2023 16:49:17



Conducted Band Edge

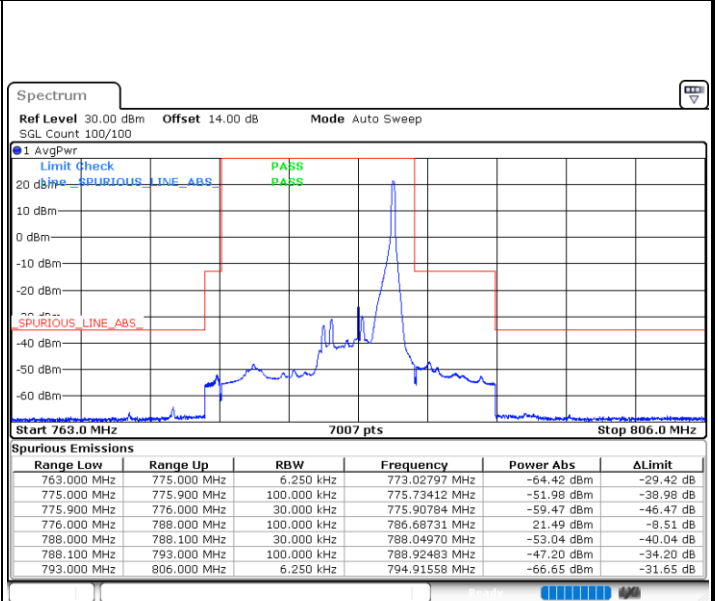
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



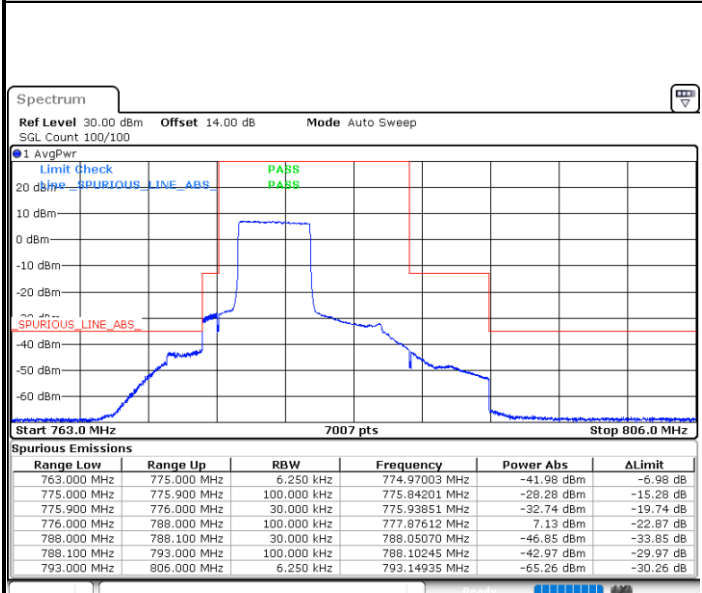
Date: 15.MAY.2023 11:52:40

Highest Band Edge / 1 RB



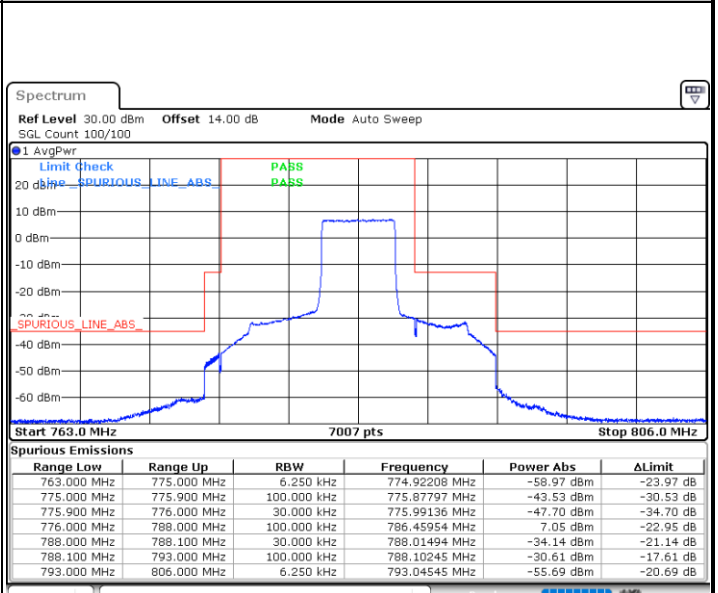
Date: 15.MAY.2023 13:07:21

Lowest Band Edge / Full RB



Date: 15.MAY.2023 11:47:03

Highest Band Edge / Full RB



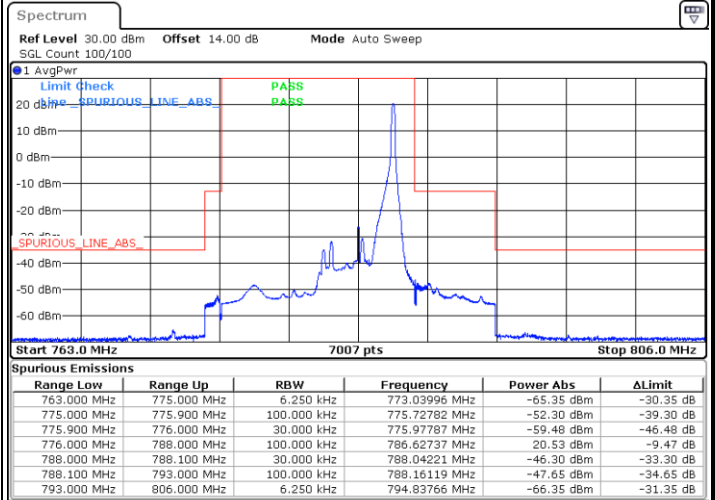
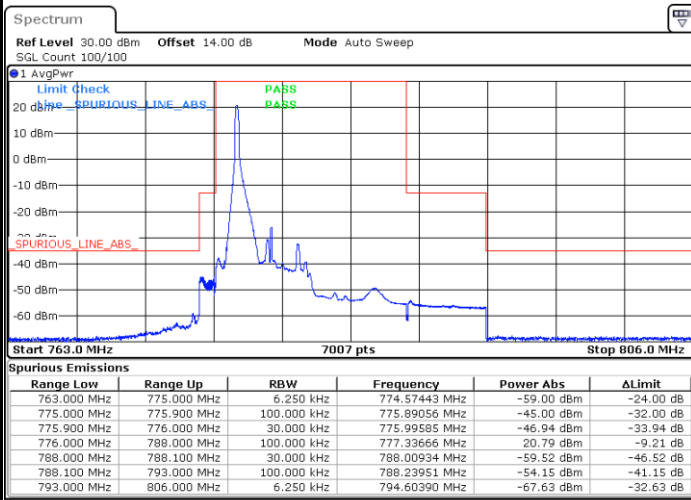
Date: 15.MAY.2023 11:54:32



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

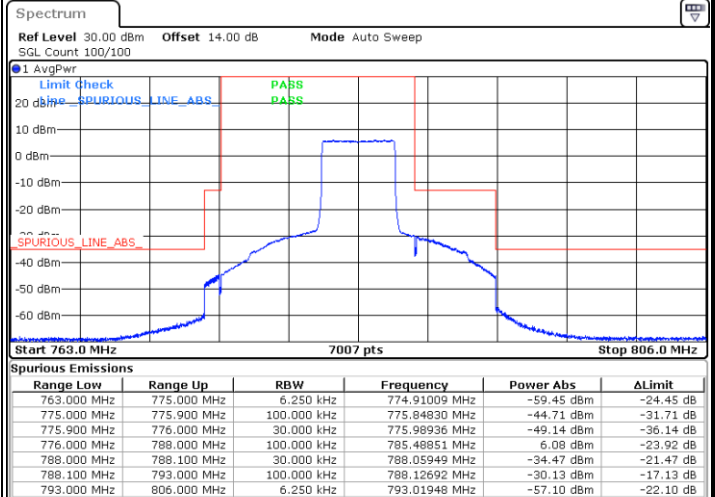
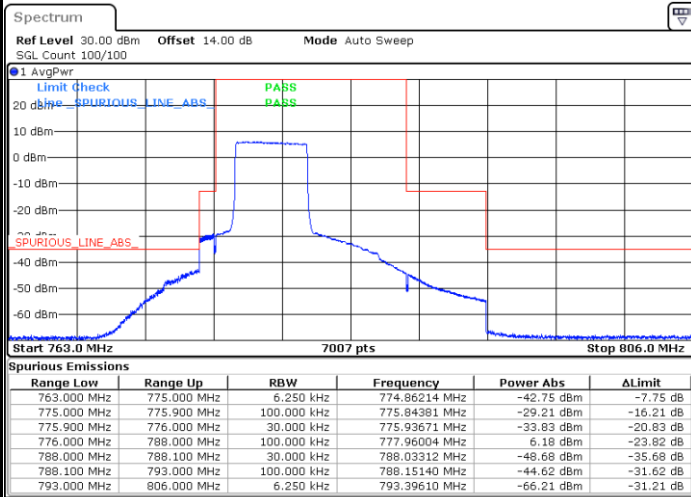


Date: 15.MAY.2023 11:50:48

Date: 15.MAY.2023 13:05:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAY.2023 11:48:55

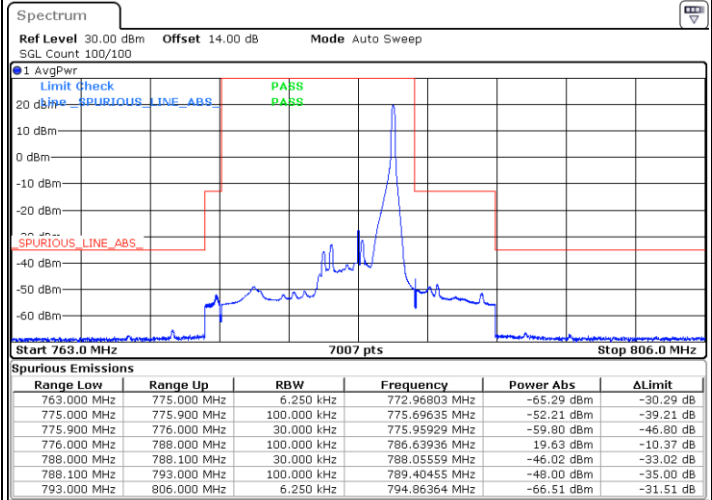
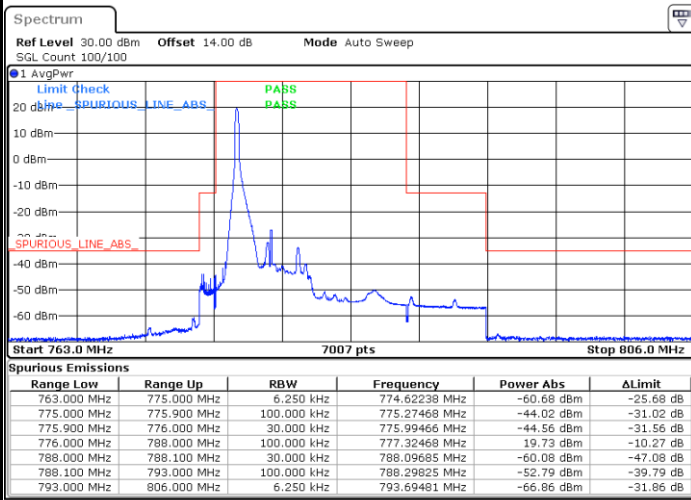
Date: 15.MAY.2023 11:56:25



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

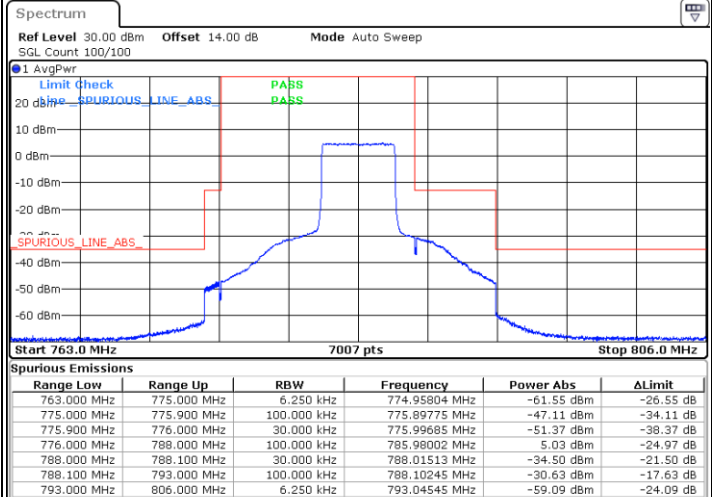
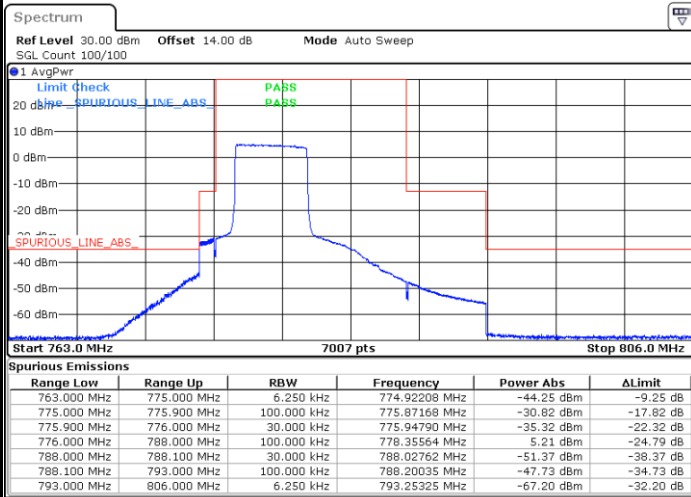


Date: 16.MAY.2023 16:18:38

Date: 16.MAY.2023 16:22:25

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.MAY.2023 16:16:45

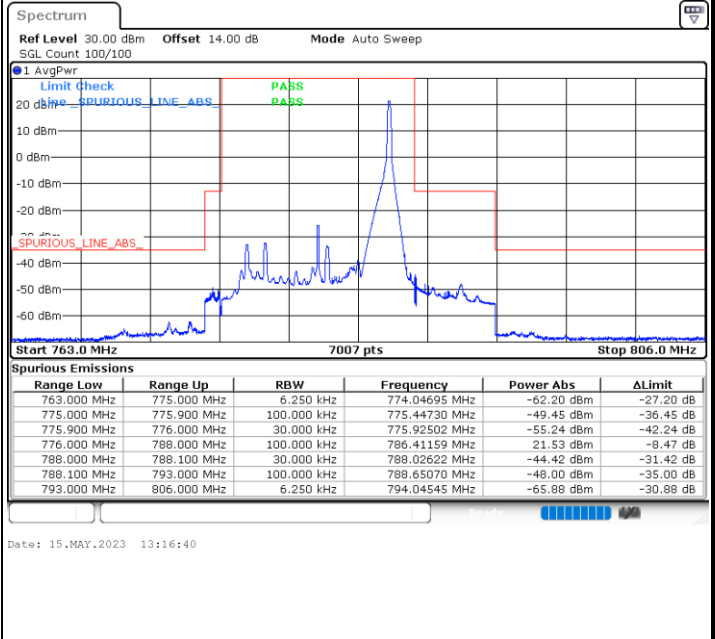
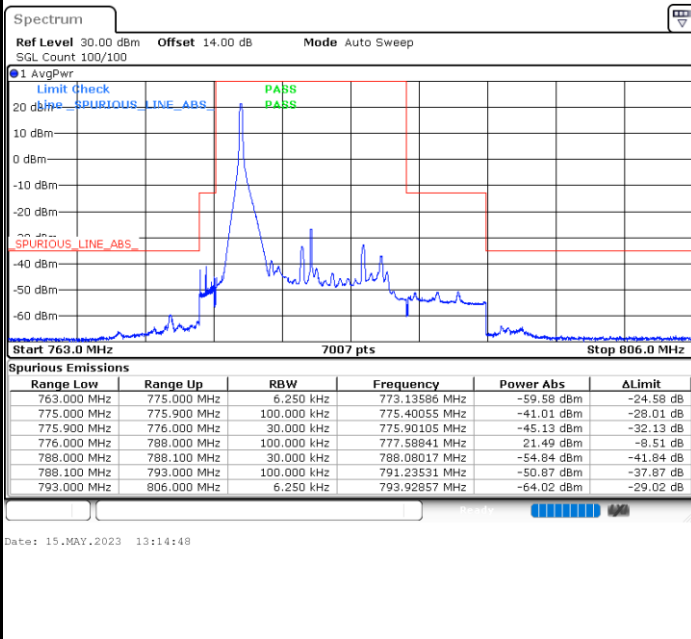
Date: 16.MAY.2023 16:20:31



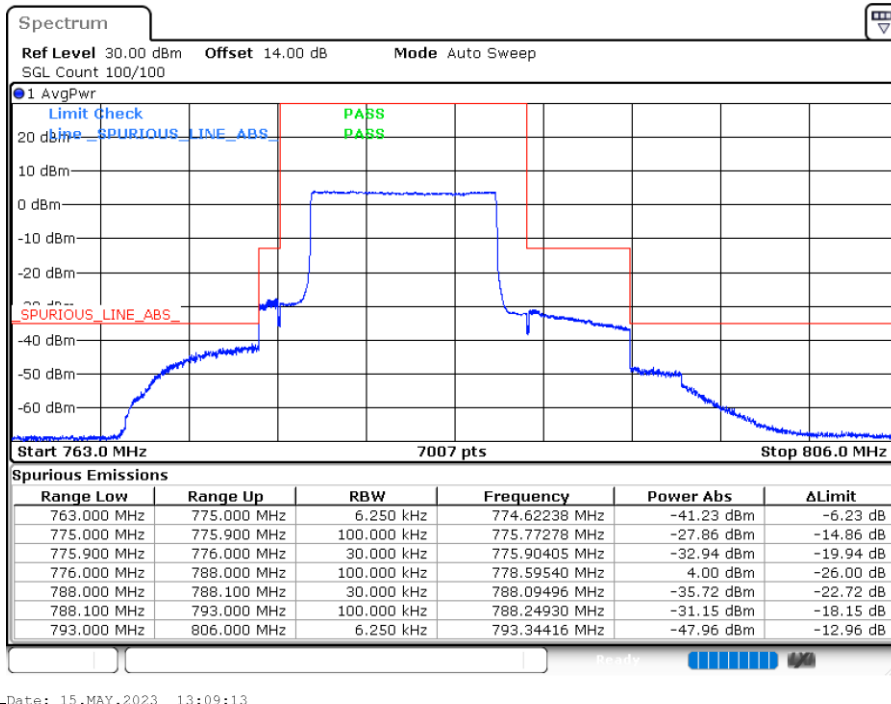
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Band Edge / Full RB

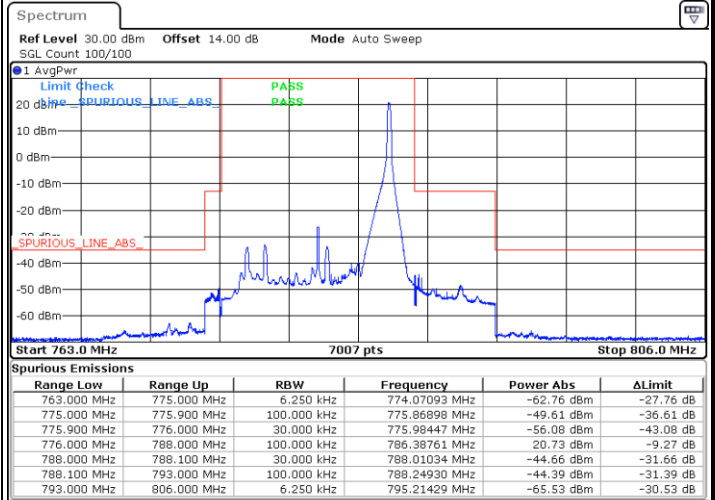
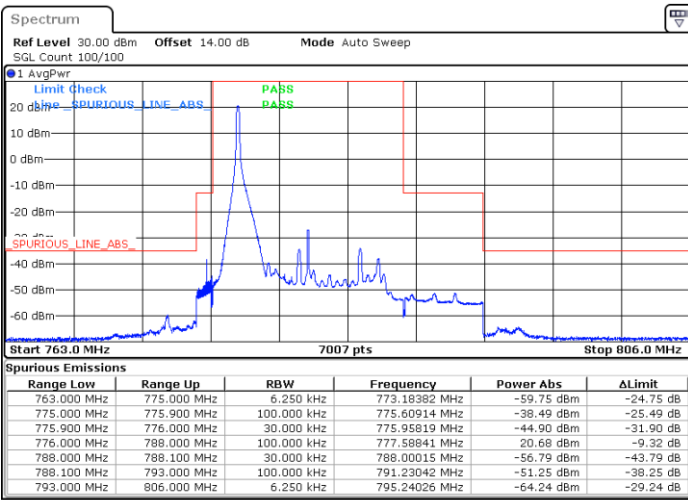




LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

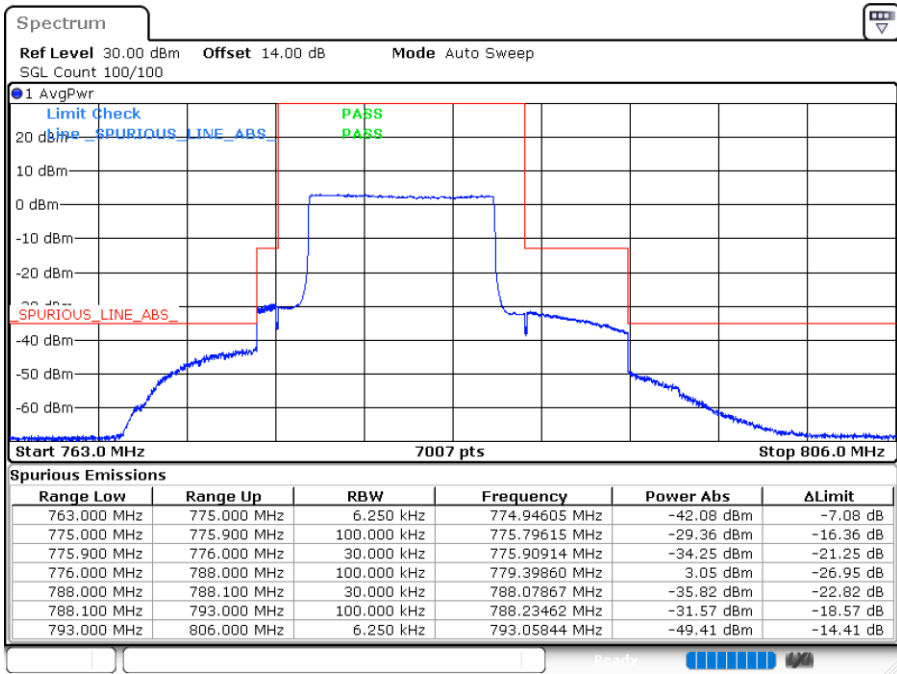
Highest Band Edge / 1 RB



Date: 15.MAY.2023 13:12:56

Date: 15.MAY.2023 13:18:32

Band Edge / Full RB



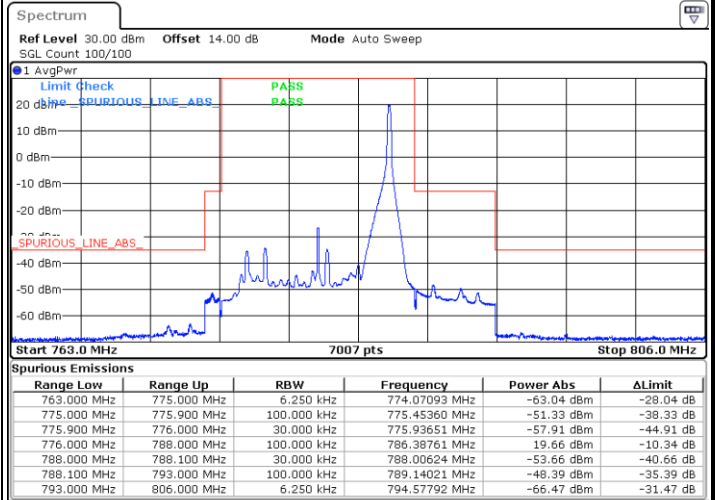
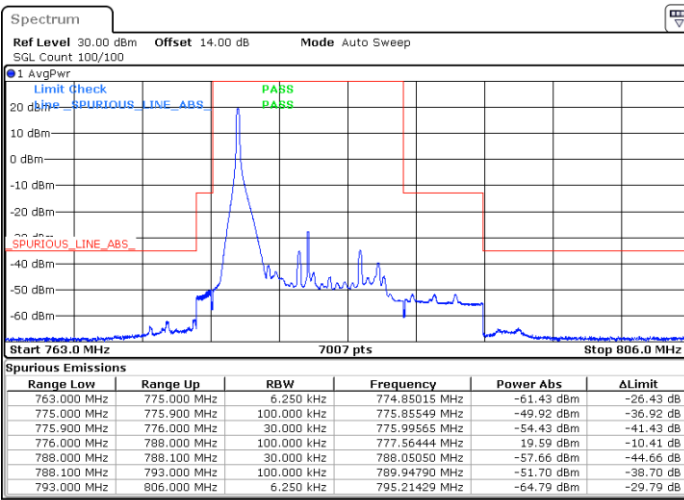
Date: 15.MAY.2023 13:11:05



LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

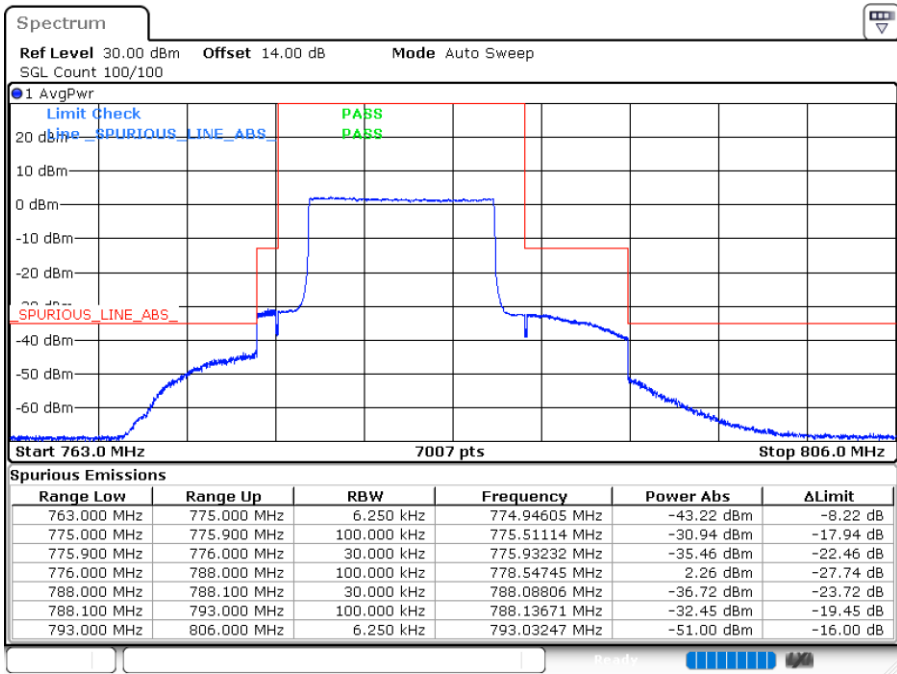
Highest Band Edge / 1 RB



Date: 16.MAY.2023 16:26:11

Date: 16.MAY.2023 16:28:03

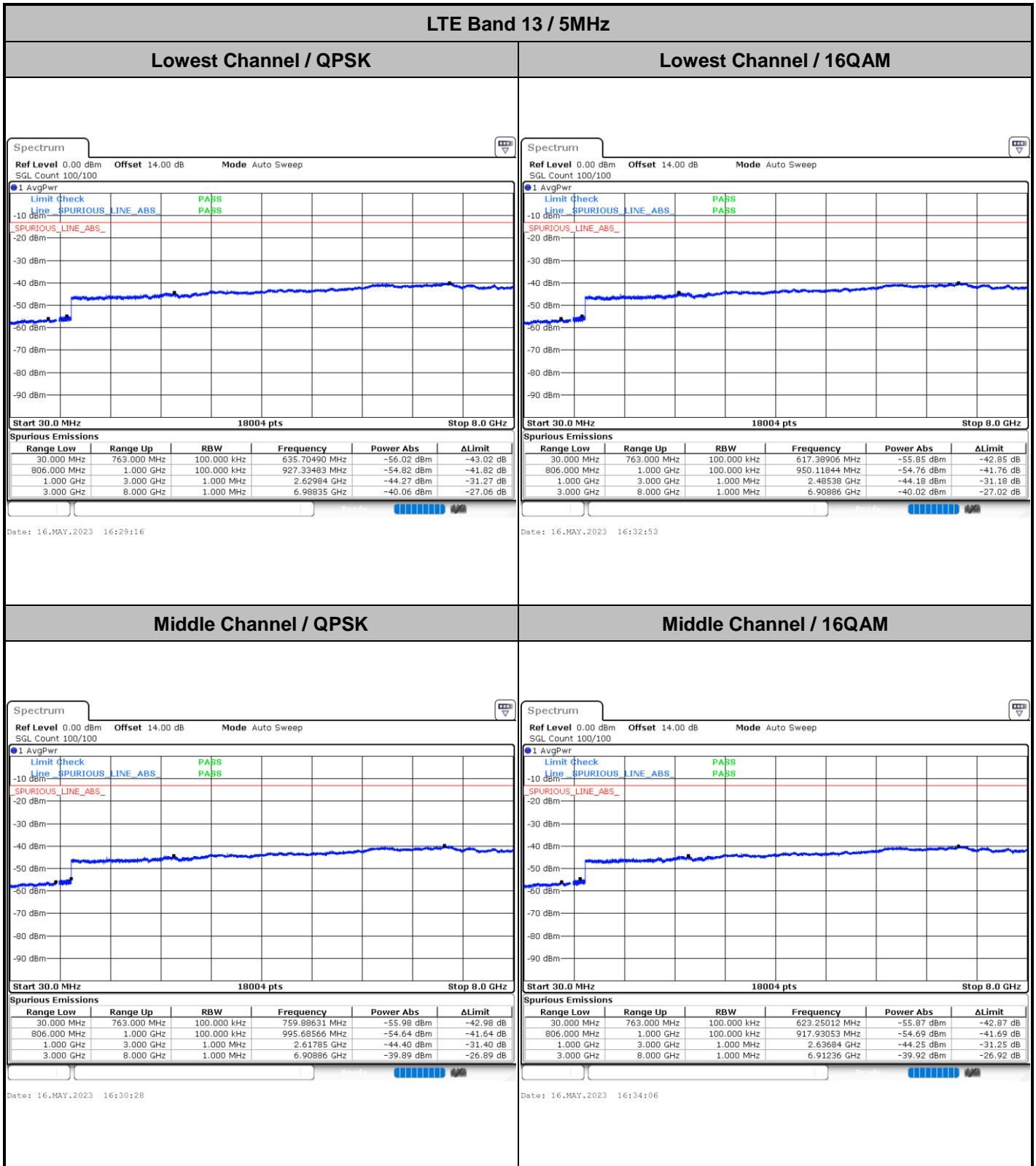
Band Edge / Full RB



Date: 16.MAY.2023 16:24:18



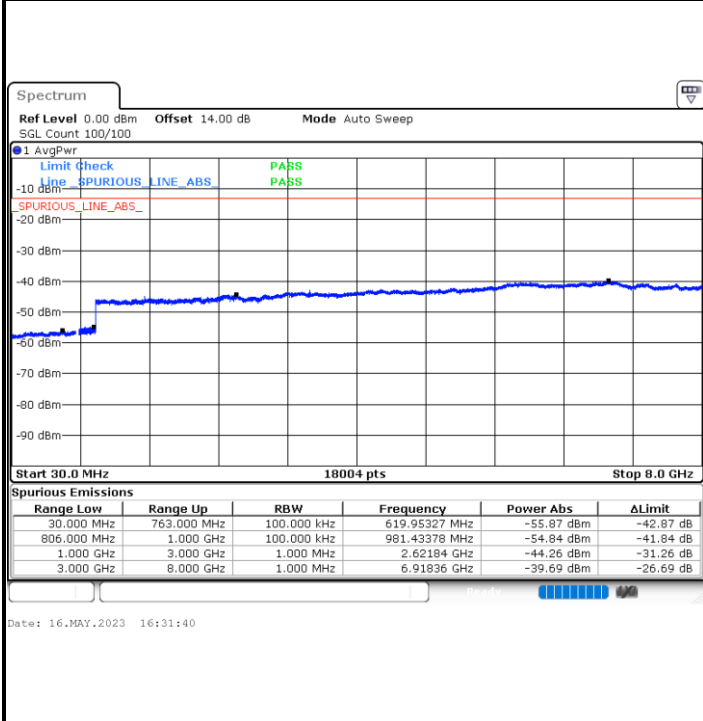
Conducted Spurious Emission



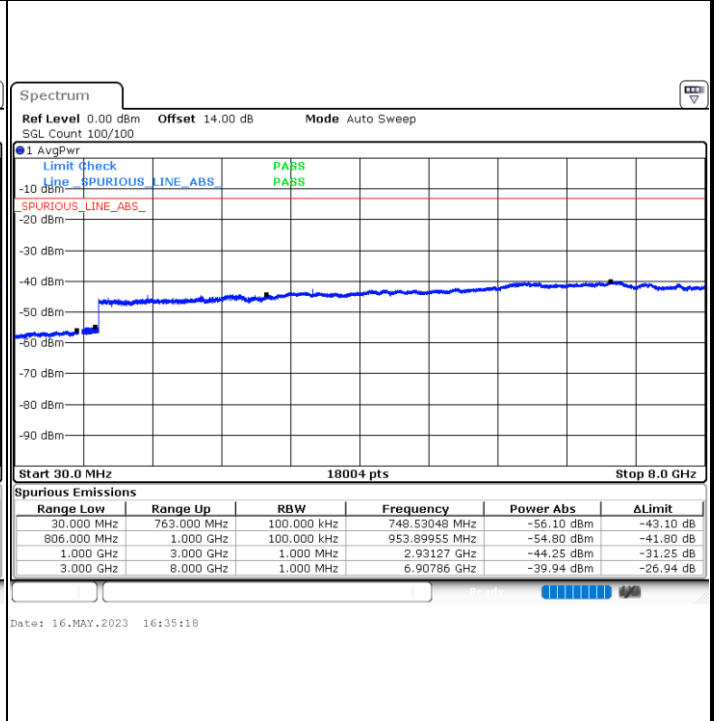


LTE Band 13 / 5MHz

Highest Channel / QPSK

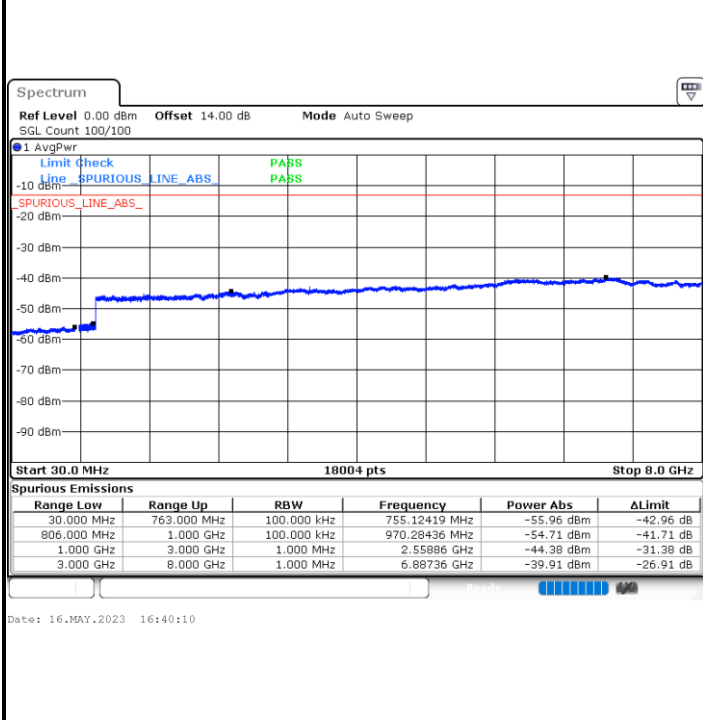


Highest Channel / 16QAM

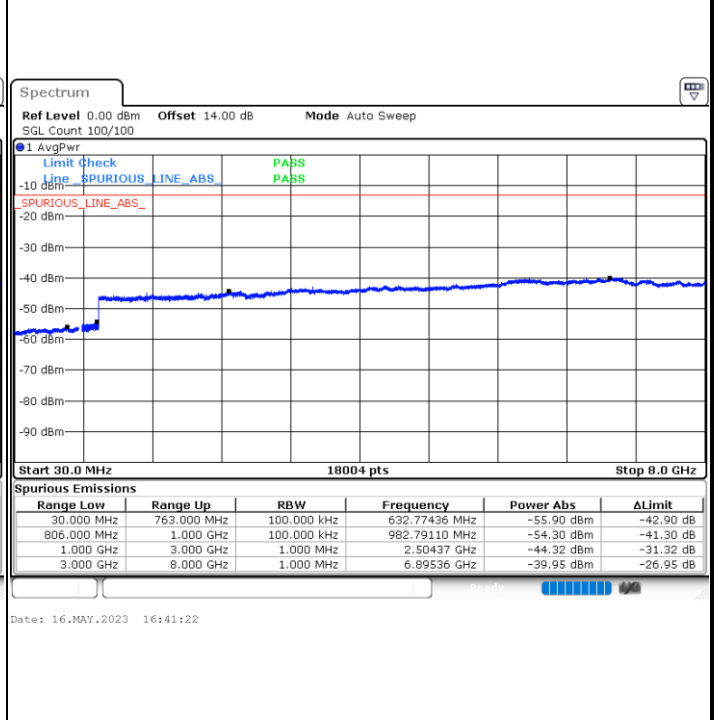


LTE Band 13 / 10MHz

Middle Channel / QPSK



Middle Channel / 16QAM

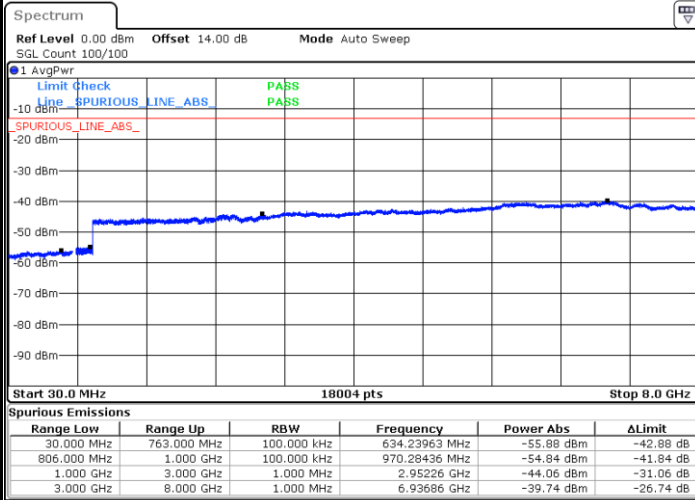




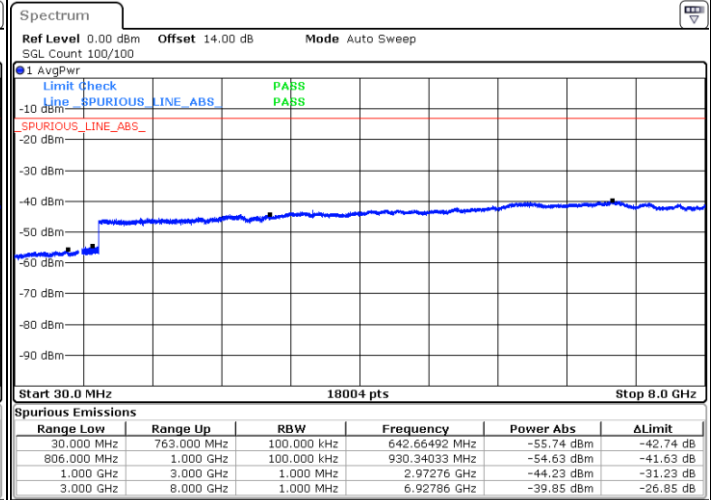
LTE Band 13 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

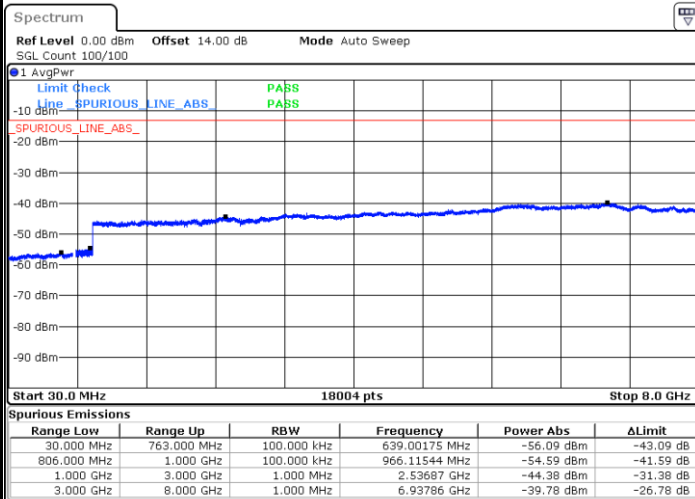


Date: 16.MAY.2023 16:36:31



Date: 16.MAY.2023 16:37:44

Highest Channel / 64QAM

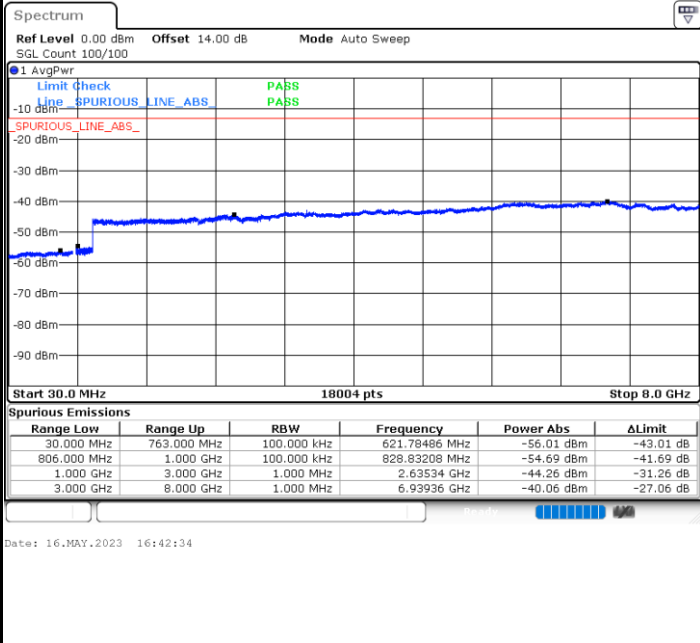


Date: 16.MAY.2023 16:38:57



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	0.0005	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0096	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0095	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 26_Part 22H

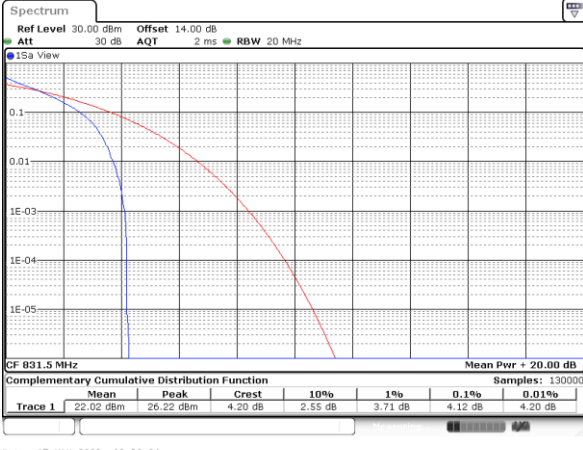
Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.12	4.72	5.01	5.51	PASS
Middle CH	4.26	4.70	5.07	5.54	
Highest CH	4.26	4.96	5.19	5.77	
Mode	LTE Band 26 / 15MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.19	6.14	-	-	PASS
Middle CH	6.00	6.12	-	-	
Highest CH	5.48	6.17	-	-	



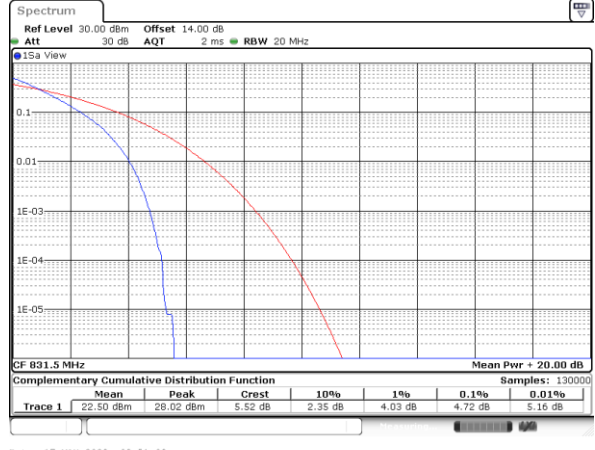
LTE Band 26 / 15MHz / QPSK

Lowest Channel / 1RB



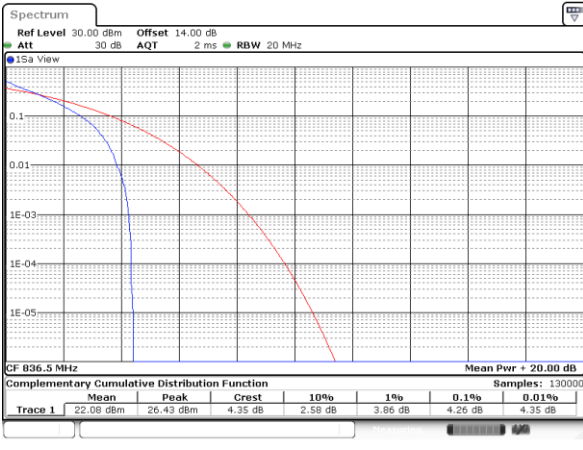
Date: 17.MAY.2023 09:52:24

Lowest Channel / Full RB



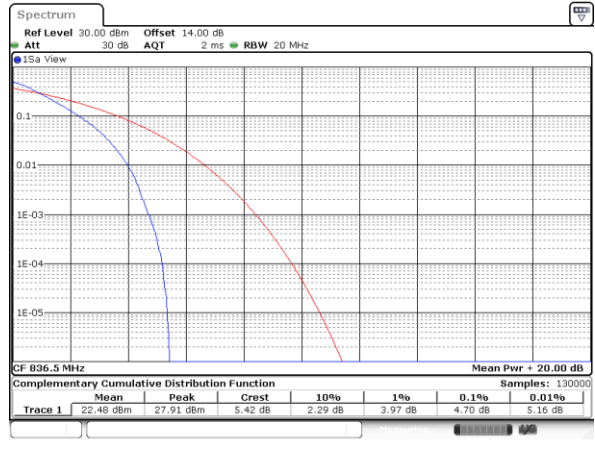
Date: 17.MAY.2023 09:51:09

Middle Channel / 1RB



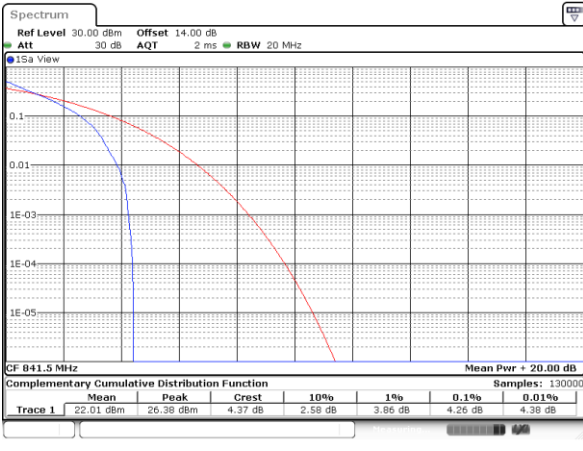
Date: 17.MAY.2023 09:52:49

Middle Channel / Full RB



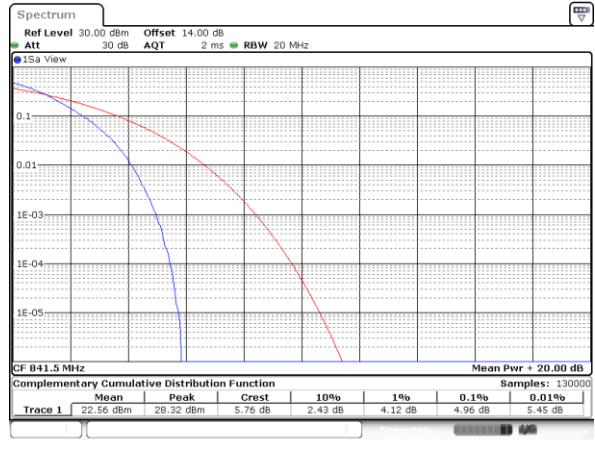
Date: 17.MAY.2023 09:54:05

Highest Channel / 1RB



Date: 17.MAY.2023 09:55:46

Highest Channel / Full RB

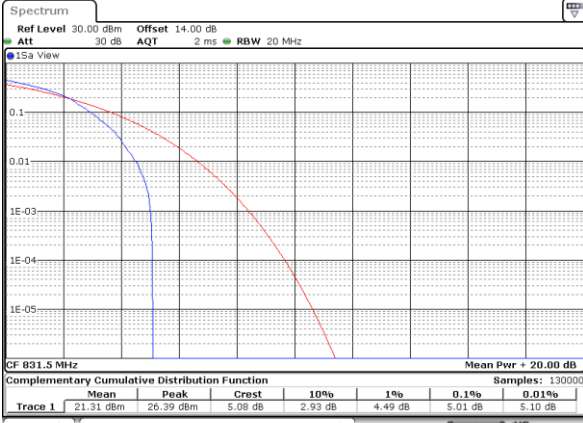


Date: 17.MAY.2023 09:54:30



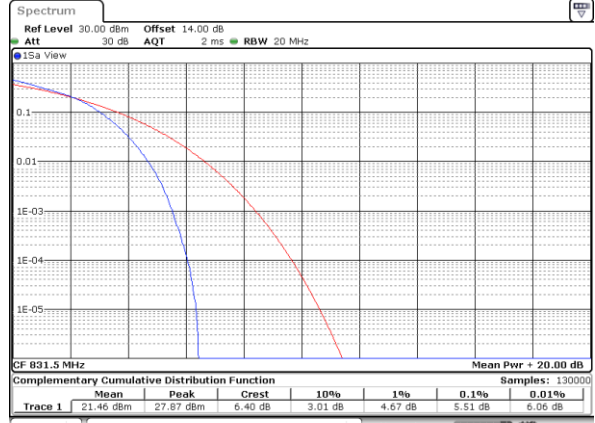
LTE Band 26 / 15MHz / 16QAM

Lowest Channel / 1RB



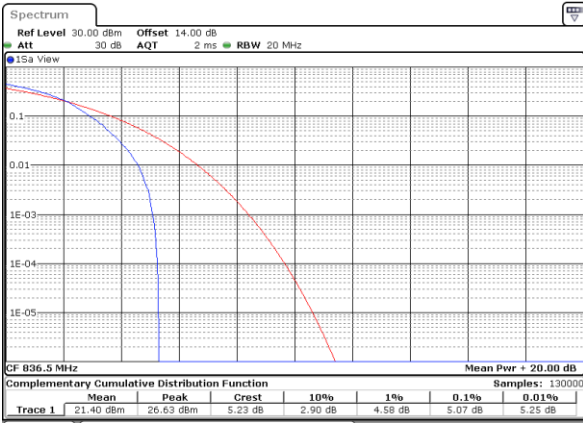
Date: 17.MAY.2023 09:51:59

Lowest Channel / Full RB



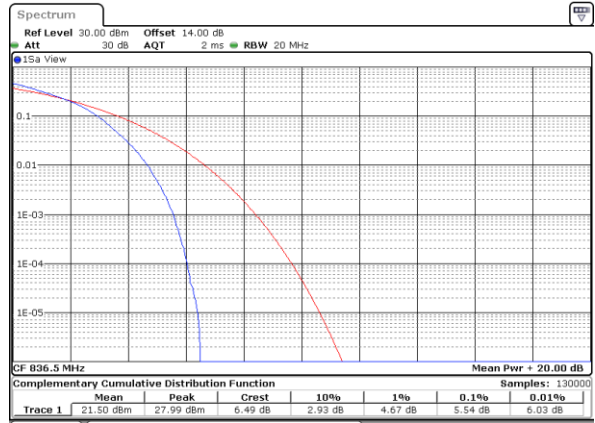
Date: 17.MAY.2023 09:51:34

Middle Channel / 1RB



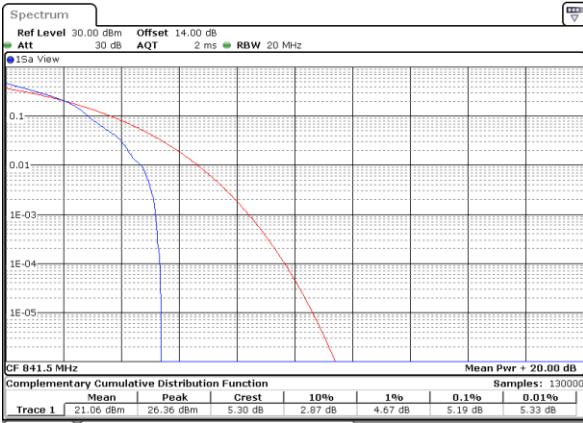
Date: 17.MAY.2023 09:53:14

Middle Channel / Full RB



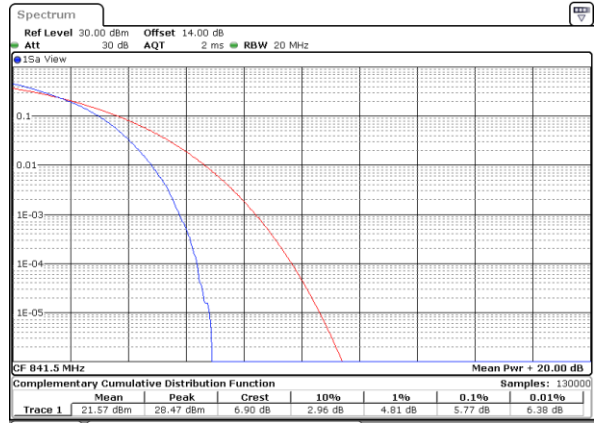
Date: 17.MAY.2023 09:53:39

Highest Channel / 1RB



Date: 17.MAY.2023 09:55:21

Highest Channel / Full RB

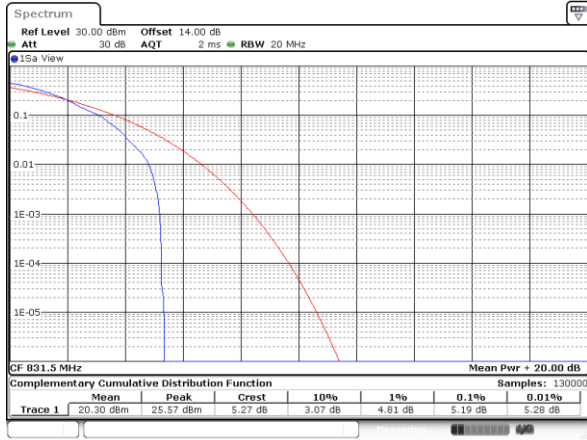


Date: 17.MAY.2023 09:54:56



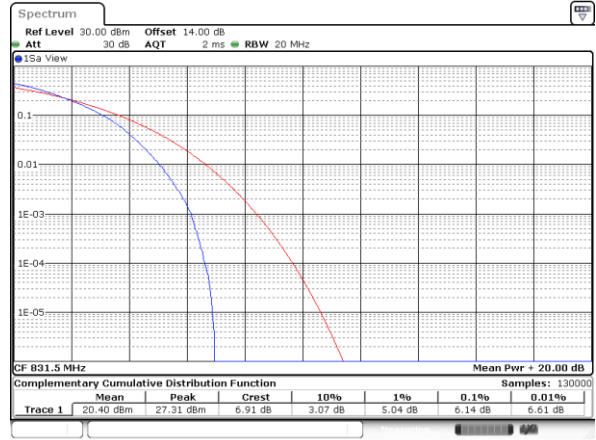
LTE Band 26 / 15MHz / 64QAM

Lowest Channel / 1RB



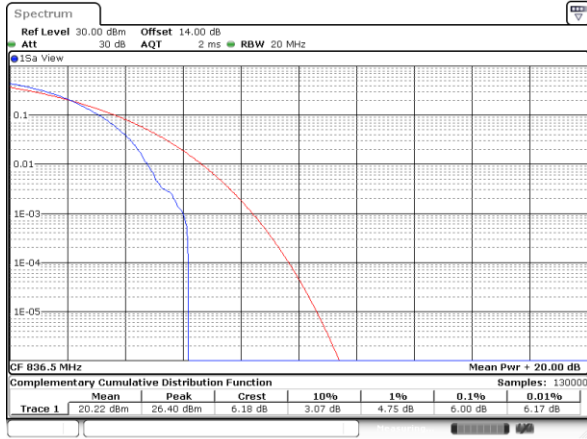
Date: 17.MAY.2023 09:56:36

Lowest Channel / Full RB



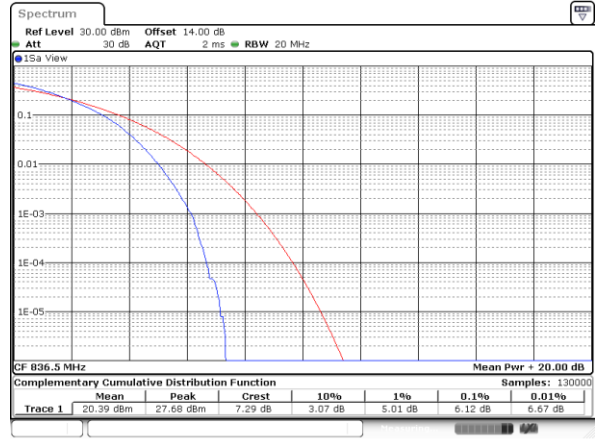
Date: 17.MAY.2023 09:56:11

Middle Channel / 1RB



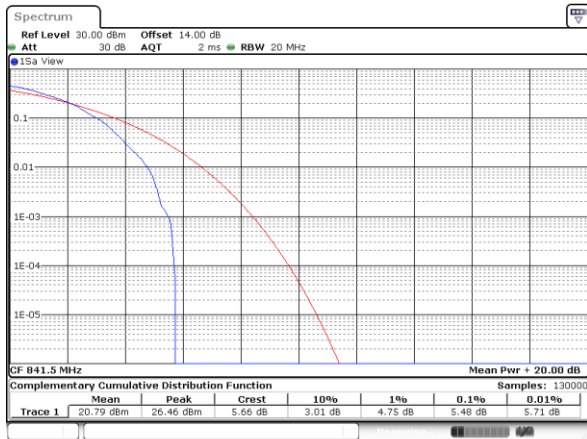
Date: 17.MAY.2023 09:57:01

Middle Channel / Full RB



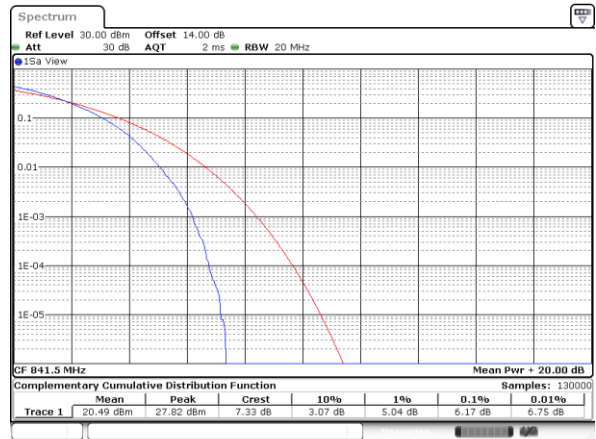
Date: 17.MAY.2023 09:57:26

Highest Channel / 1RB



Date: 17.MAY.2023 09:58:17

Highest Channel / Full RB



Date: 17.MAY.2023 09:57:52



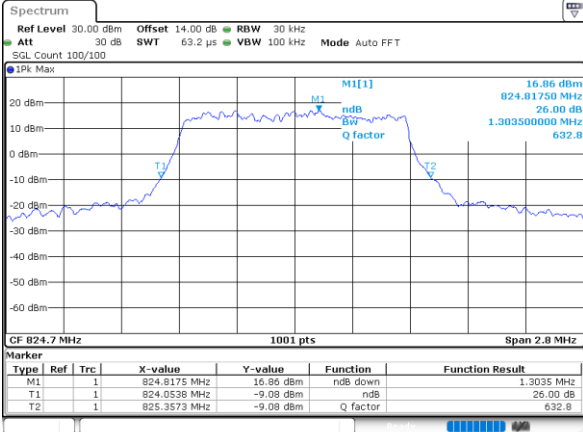
26dB Bandwidth

Mode	LTE Band 26 : 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	1.30	1.30	2.96	2.99	4.88	4.87	9.79	9.79	14.18	14.66	-	-
Middle CH	1.28	1.24	2.99	2.98	4.91	4.89	9.71	9.79	14.18	14.18	-	-
Highest CH	1.27	1.28	3.00	2.95	4.91	4.87	9.75	9.67	14.45	14.15	-	-
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.29	-	3.00	-	4.94	-	9.77	-	14.39	-	-	-
Middle CH	1.25	-	2.95	-	4.83	-	9.79	-	14.36	-	-	-
Highest CH	1.30	-	2.99	-	4.88	-	10.01	-	14.54	-	-	-



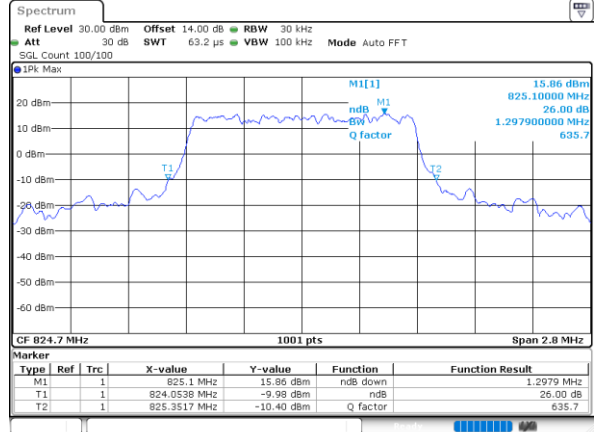
LTE Band 26

Lowest Channel / 1.4MHz / QPSK



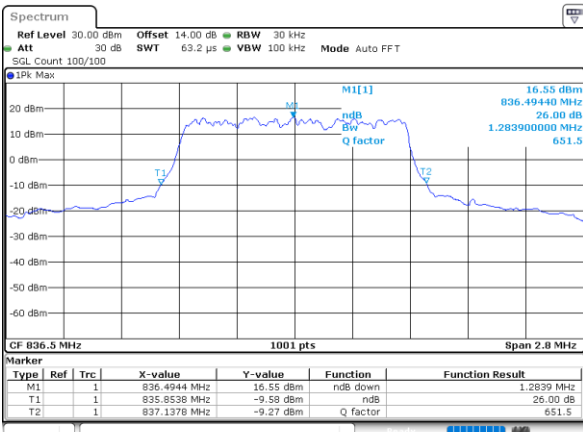
Date: 16.MAY.2023 17:43:32

Lowest Channel / 1.4MHz / 16QAM



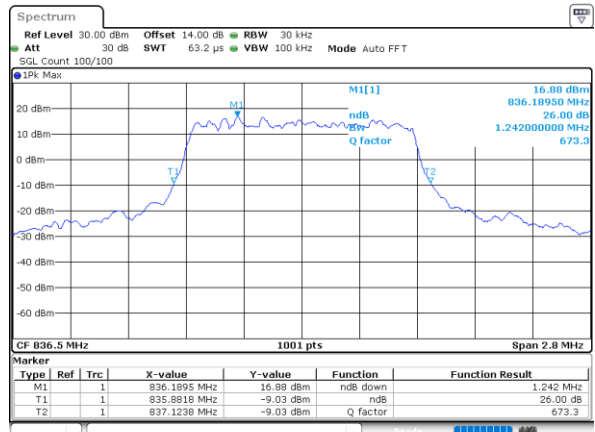
Date: 16.MAY.2023 17:43:08

Middle Channel / 1.4MHz / QPSK



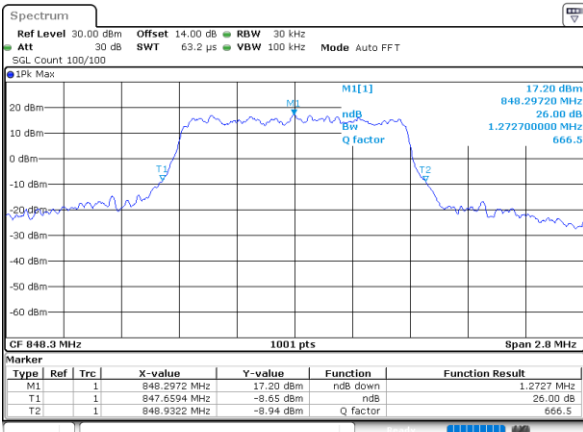
Date: 16.MAY.2023 17:44:58

Middle Channel / 1.4MHz / 16QAM



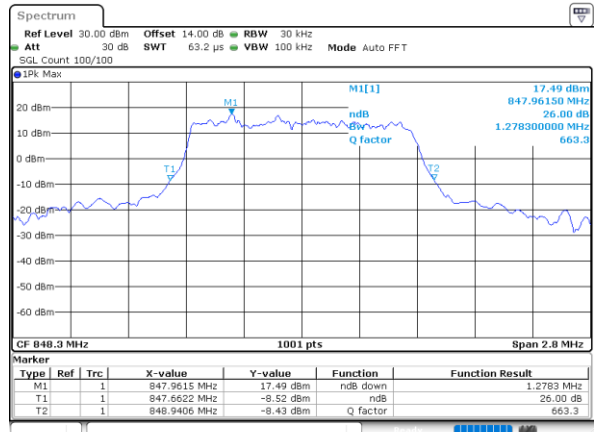
Date: 16.MAY.2023 17:44:34

Highest Channel / 1.4MHz / QPSK



Date: 16.MAY.2023 17:46:26

Highest Channel / 1.4MHz / 16QAM

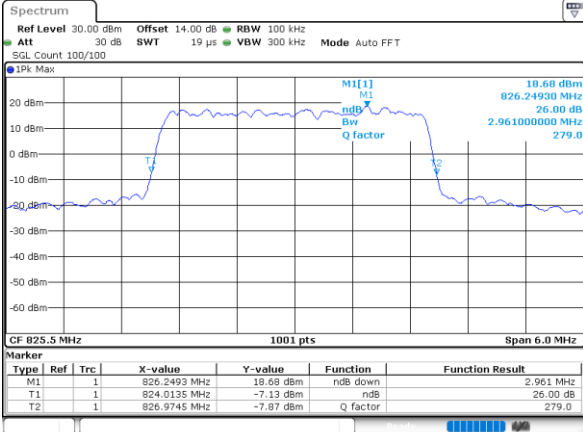


Date: 16.MAY.2023 17:46:01



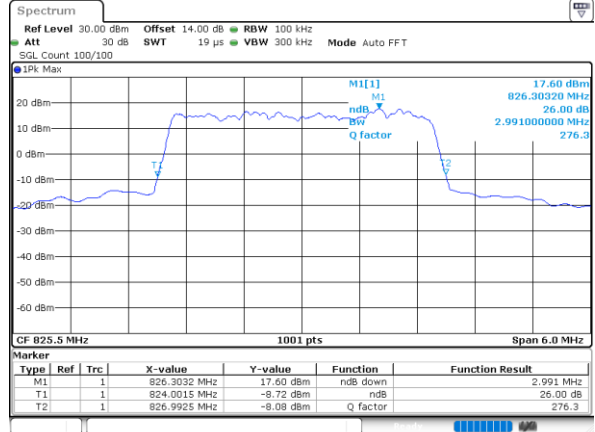
LTE Band 26

Lowest Channel / 3MHz / QPSK



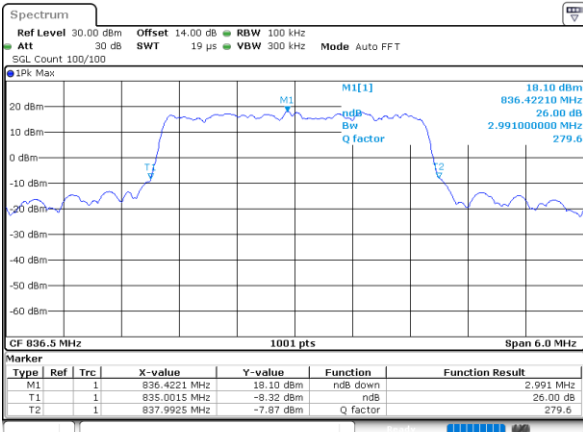
Date: 16.MAY.2023 18:04:10

Lowest Channel / 3MHz / 16QAM



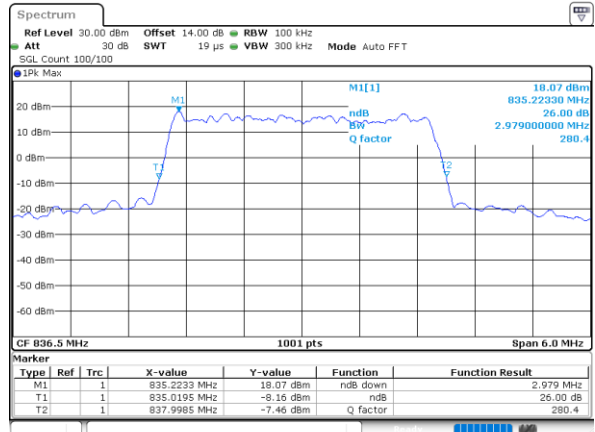
Date: 16.MAY.2023 18:03:46

Middle Channel / 3MHz / QPSK



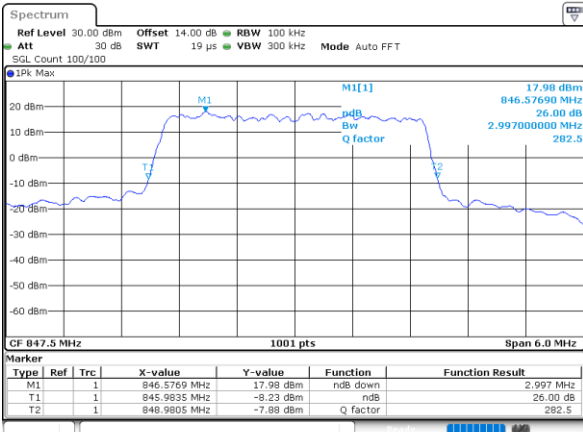
Date: 16.MAY.2023 18:05:06

Middle Channel / 3MHz / 16QAM



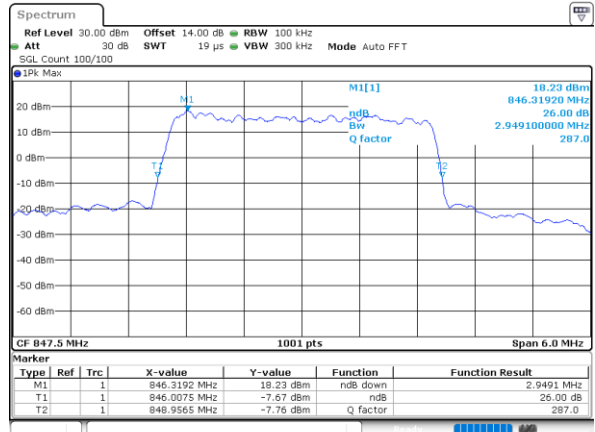
Date: 16.MAY.2023 18:05:12

Highest Channel / 3MHz / QPSK



Date: 16.MAY.2023 18:07:03

Highest Channel / 3MHz / 16QAM

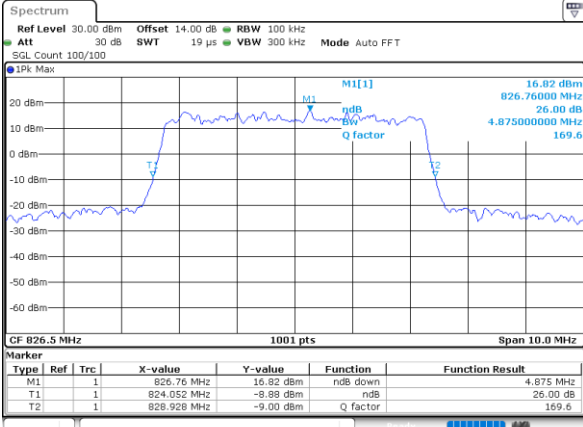


Date: 16.MAY.2023 18:06:39



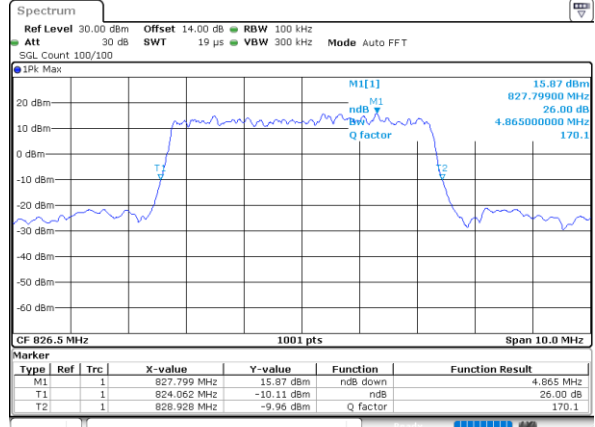
LTE Band 26

Lowest Channel / 5MHz / QPSK



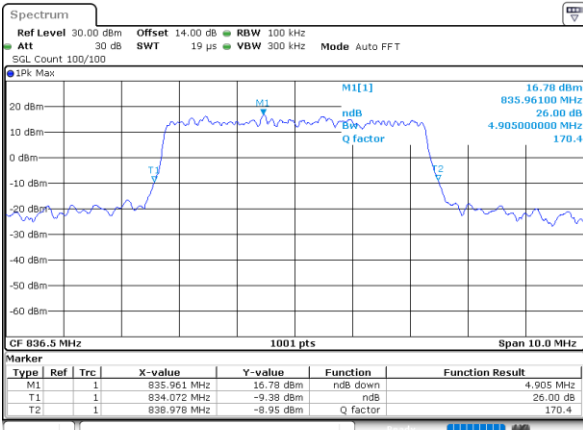
Date: 16.MAY.2023 18:08:31

Lowest Channel / 5MHz / 16QAM



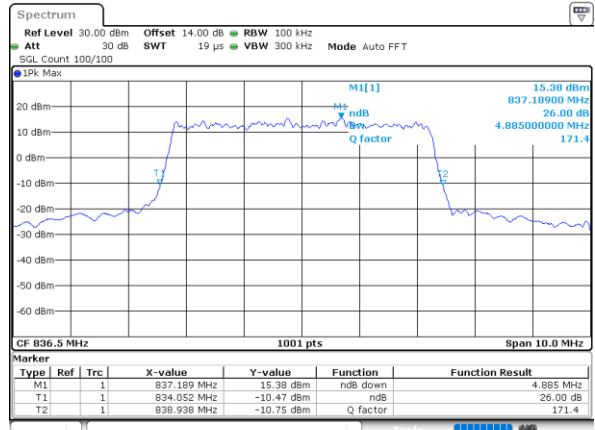
Date: 16.MAY.2023 18:08:07

Middle Channel / 5MHz / QPSK



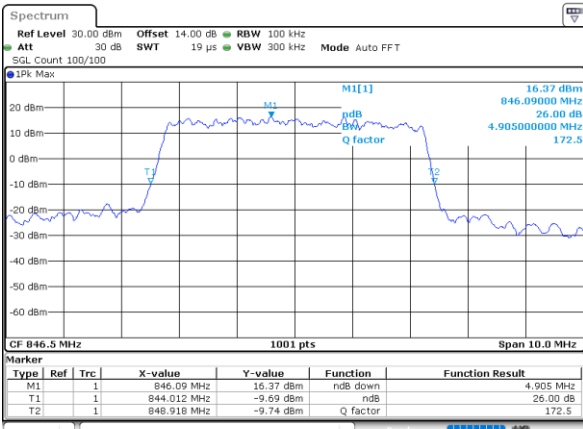
Date: 16.MAY.2023 18:09:58

Middle Channel / 5MHz / 16QAM



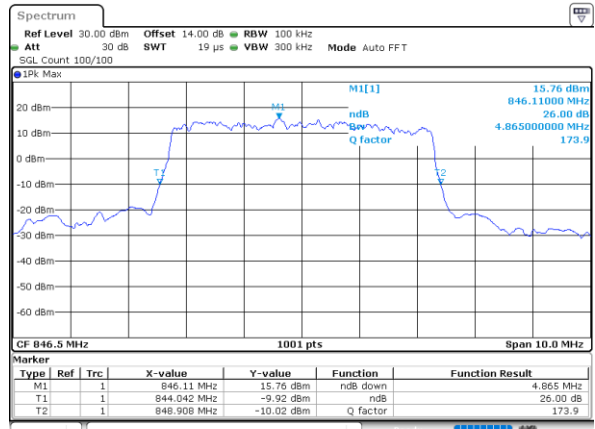
Date: 16.MAY.2023 18:09:34

Highest Channel / 5MHz / QPSK



Date: 16.MAY.2023 18:11:25

Highest Channel / 5MHz / 16QAM

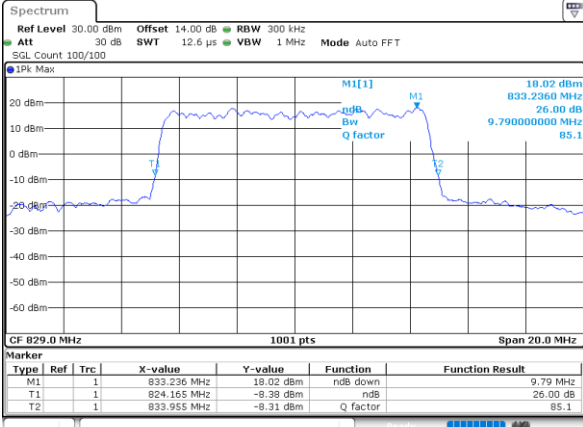


Date: 16.MAY.2023 18:11:01



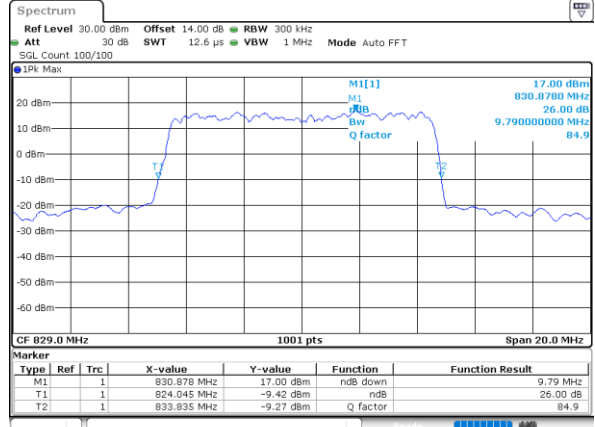
LTE Band 26

Lowest Channel / 10MHz / QPSK



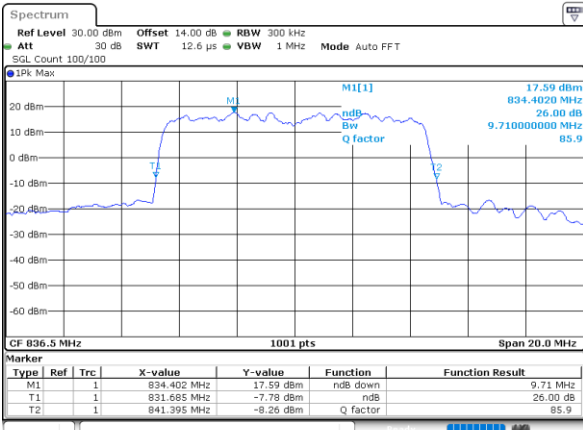
Date: 16.MAY.2023 18:12:52

Lowest Channel / 10MHz / 16QAM



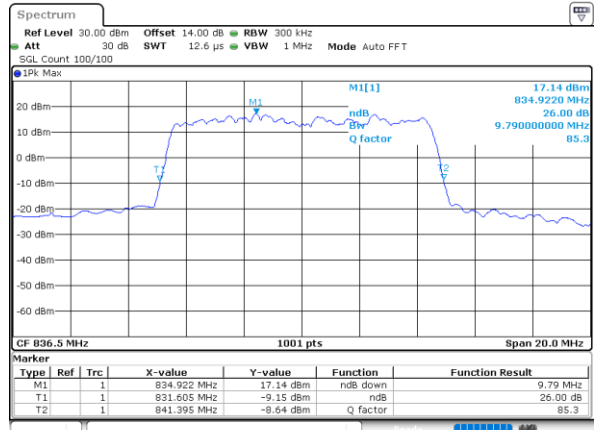
Date: 16.MAY.2023 18:12:28

Middle Channel / 10MHz / QPSK



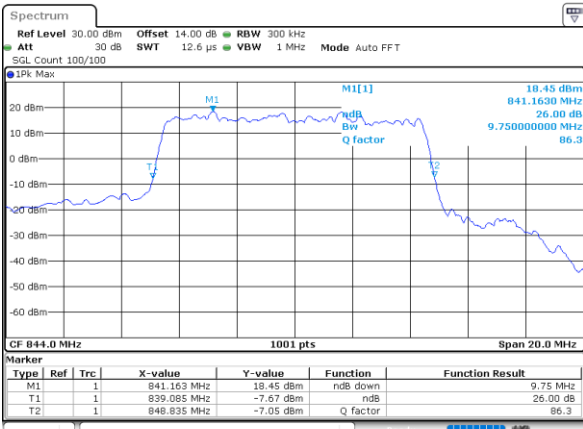
Date: 16.MAY.2023 18:14:19

Middle Channel / 10MHz / 16QAM



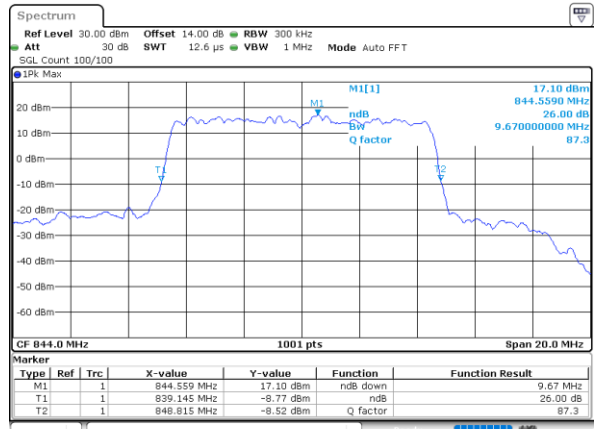
Date: 16.MAY.2023 18:13:55

Highest Channel / 10MHz / QPSK



Date: 16.MAY.2023 20:28:30

Highest Channel / 10MHz / 16QAM



Date: 16.MAY.2023 20:28:05