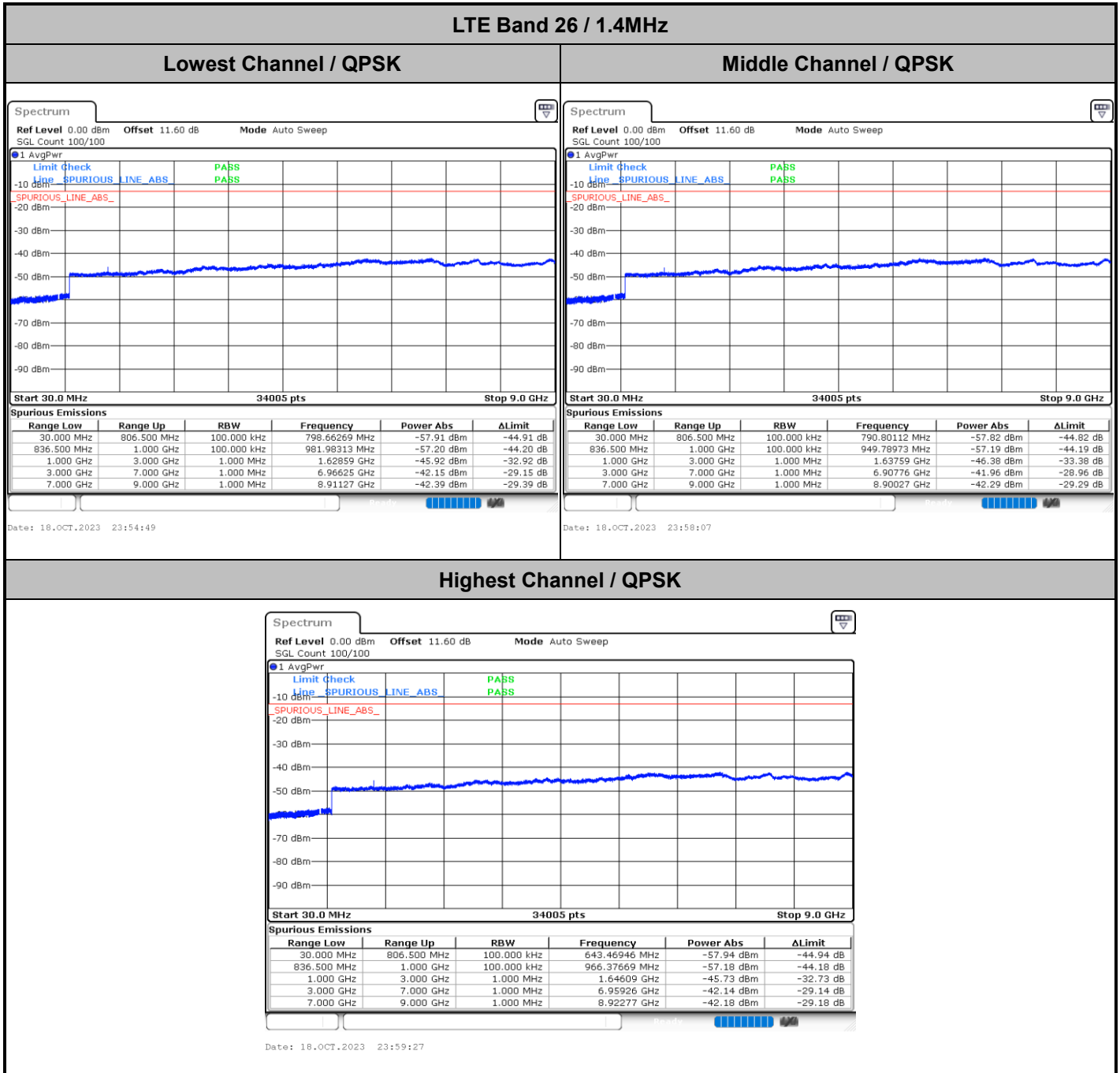




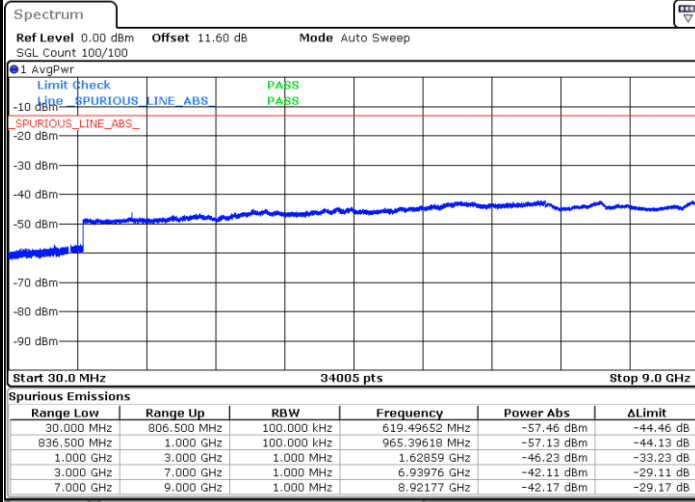
# Emission masks – Out of band emissions





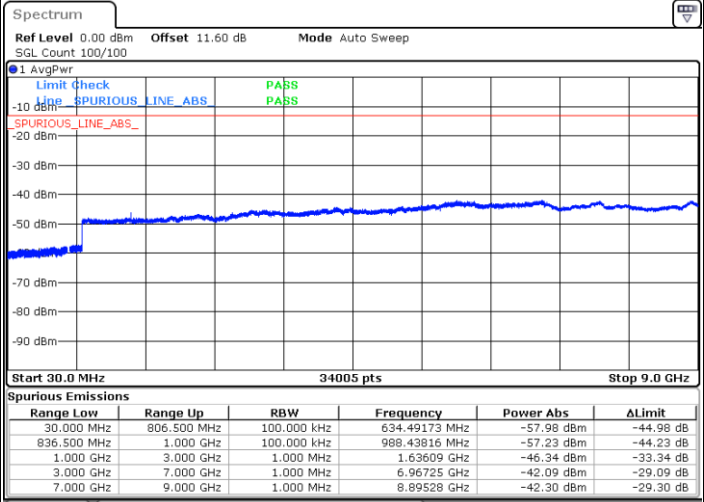
LTE Band 26 / 3MHz

Lowest Channel / QPSK



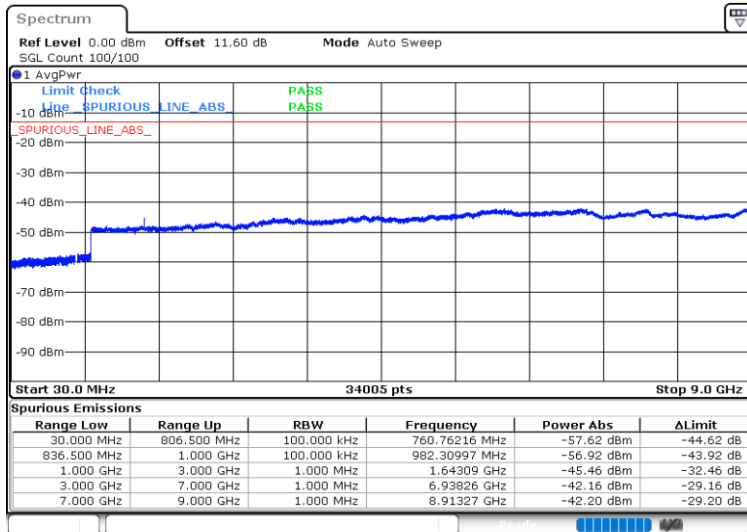
Date: 19.OCT.2023 00:42:13

Middle Channel / QPSK



Date: 19.OCT.2023 00:43:33

Highest Channel / QPSK



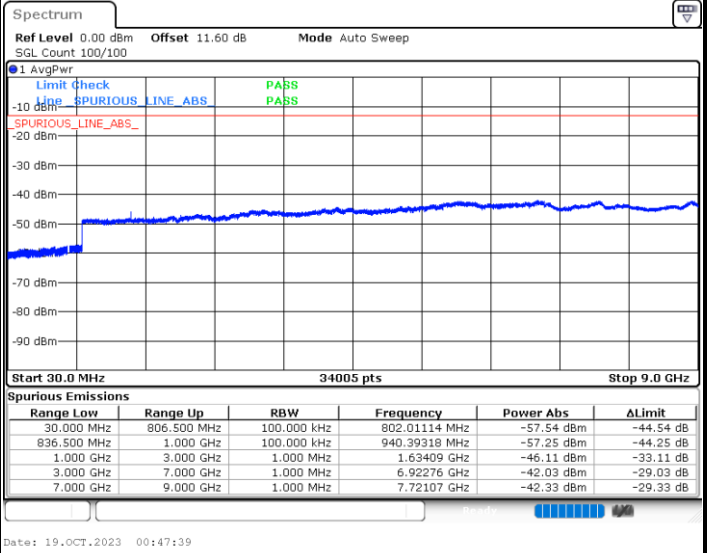
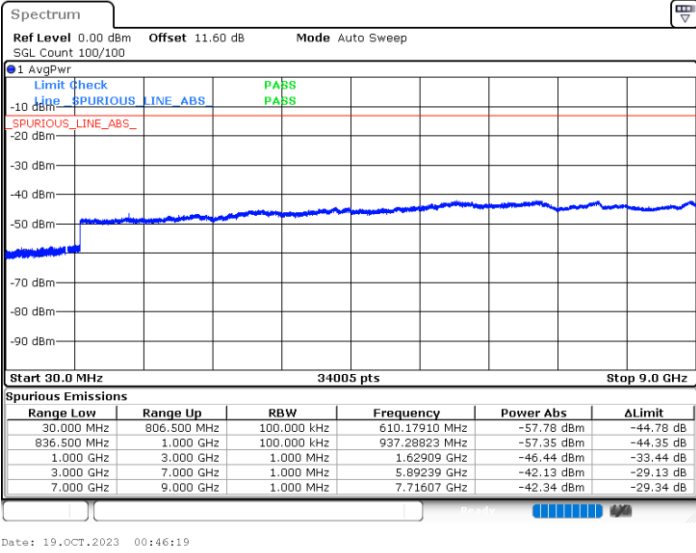
Date: 19.OCT.2023 00:44:53



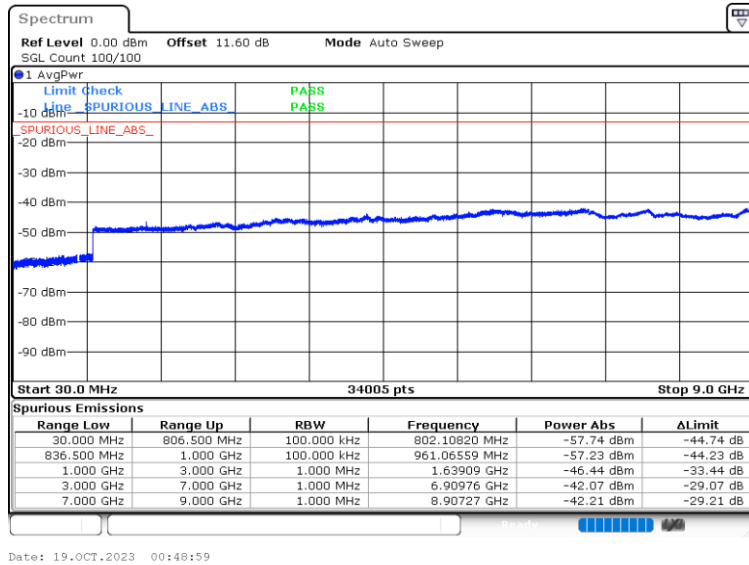
LTE Band 26 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



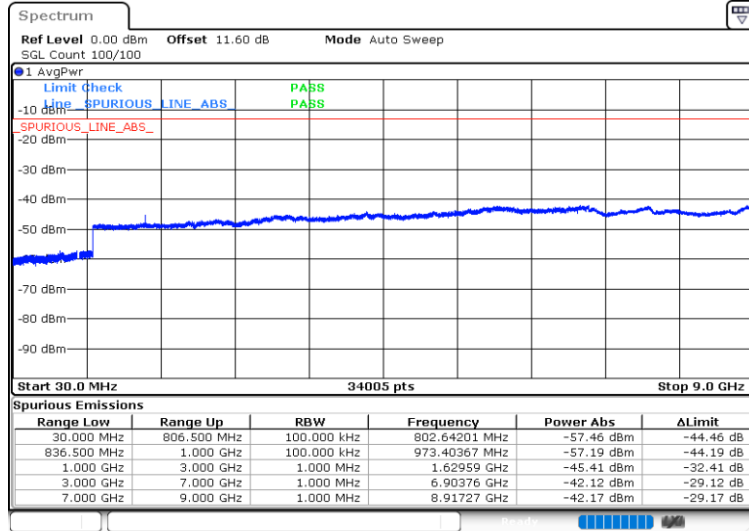
Highest Channel / QPSK





LTE Band 26 / 10MHz

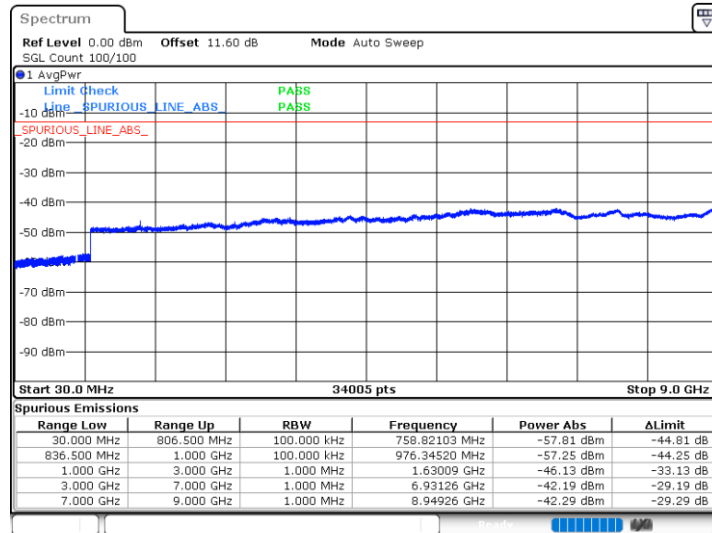
Middle Channel / QPSK



Date: 19.OCT.2023 00:50:23

LTE Band 26 / 15MHz

Low Channel / QPSK



Date: 19.OCT.2023 00:51:49



### Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5 ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0136	PASS
40	Normal Voltage	0.0170	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0167	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0061	
-20	Normal Voltage	0.0087	
-30	Normal Voltage	0.0200	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0168	

**Note:** Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.2 V.



Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	2.5 ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0073	
30	Normal Voltage	0.0039	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0225	
0	Normal Voltage	0.0046	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0156	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0134	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0223	

**Note:** Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.2 V.

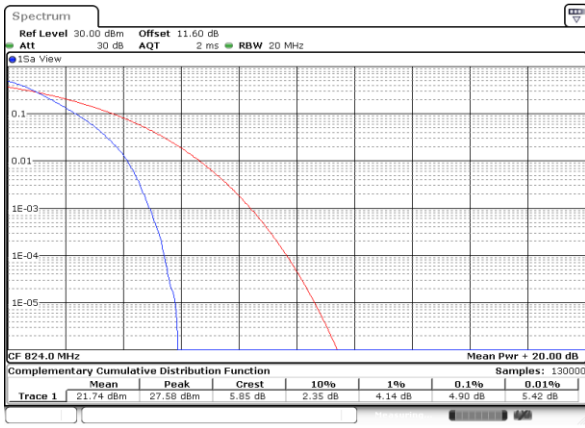


# LTE Band 26\_Part 90S\_824 MHz

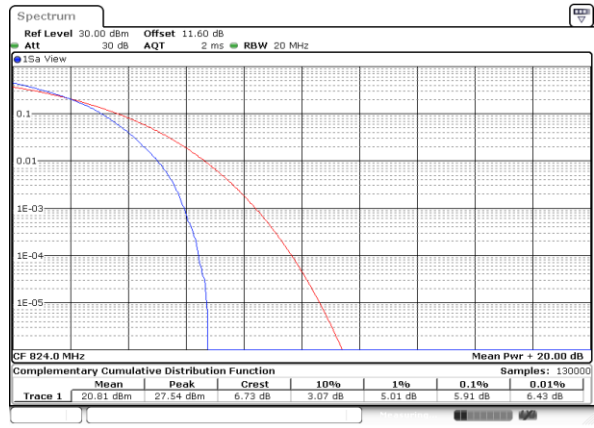
## Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.90	5.91	6.49	-	PASS

<b>LTE Band 26 / 15MHz / QPSK</b>	<b>LTE Band 26 / 15MHz / 16QAM</b>
<b>Middle Channel / Full RB</b>	<b>Middle Channel / Full RB</b>

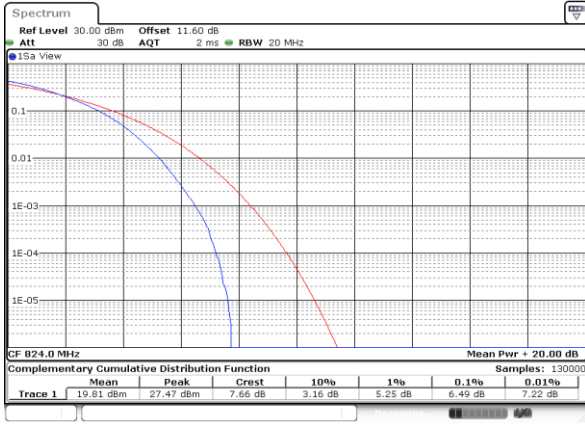


Date: 19.OCT.2023 01:04:57



Date: 19.OCT.2023 01:05:28

<b>LTE Band 26 / 15MHz / 64QAM</b>
<b>Middle Channel / Full RB</b>



Date: 19.OCT.2023 01:05:59





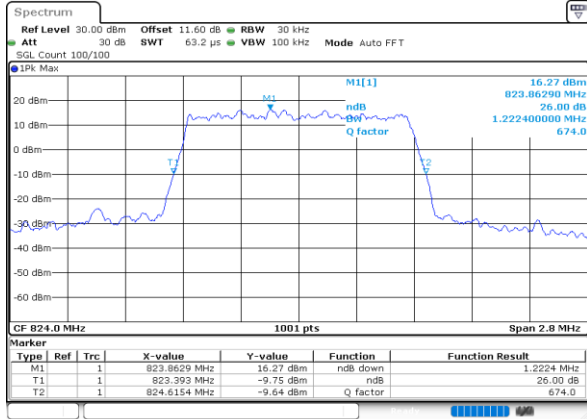
**26dB Bandwidth**

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
Middle CH	1.22	1.23	2.93	3.02	4.86	4.89	9.71	9.85	14.54	14.45	-	-
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.22	-	3.02	-	4.88	-	9.75	-	14.30	-	-	-



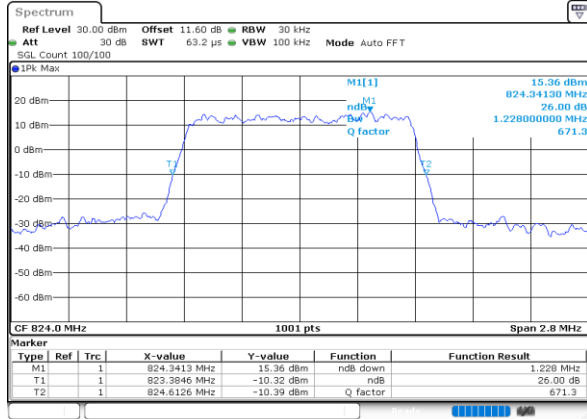
LTE Band 26

Middle Channel / 1.4MHz / QPSK



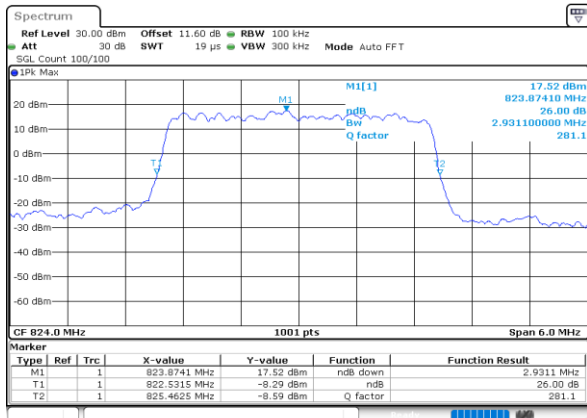
Date: 19.OCT.2023 00:53:55

Middle Channel / 1.4MHz / 16QAM



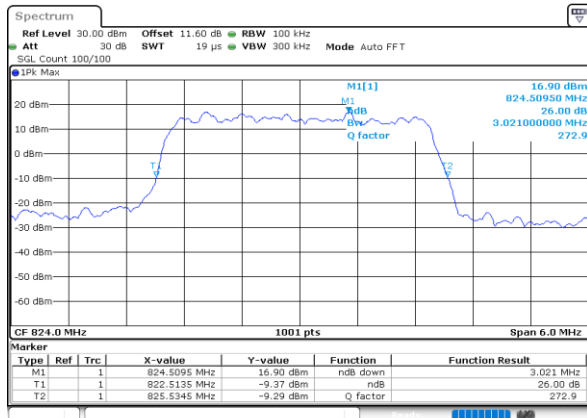
Date: 19.OCT.2023 00:54:25

Middle Channel / 3MHz / QPSK



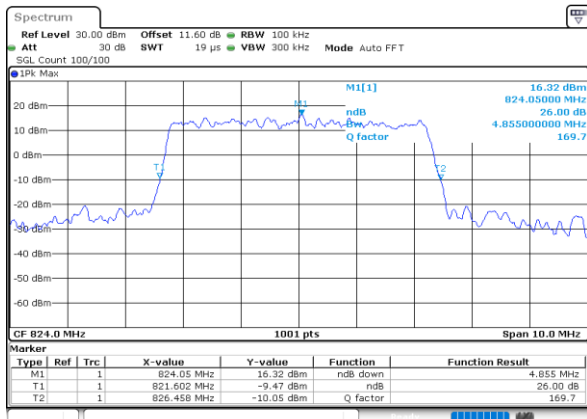
Date: 19.OCT.2023 00:56:11

Middle Channel / 3MHz / 16QAM



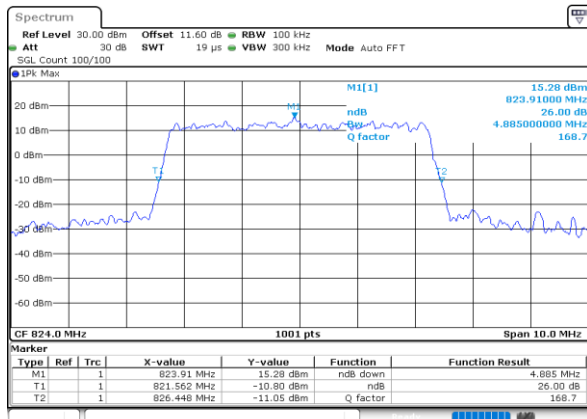
Date: 19.OCT.2023 00:56:41

Middle Channel / 5MHz / QPSK



Date: 19.OCT.2023 00:58:27

Middle Channel / 5MHz / 16QAM

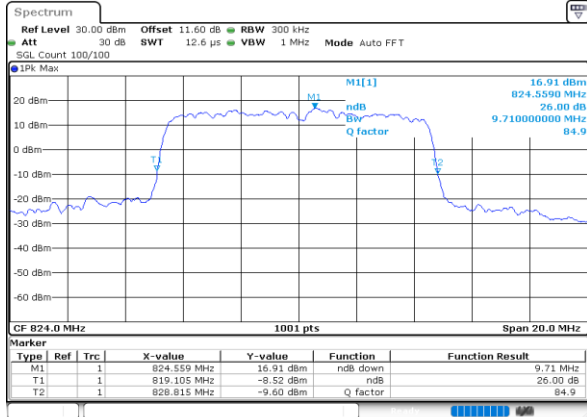


Date: 19.OCT.2023 00:58:57



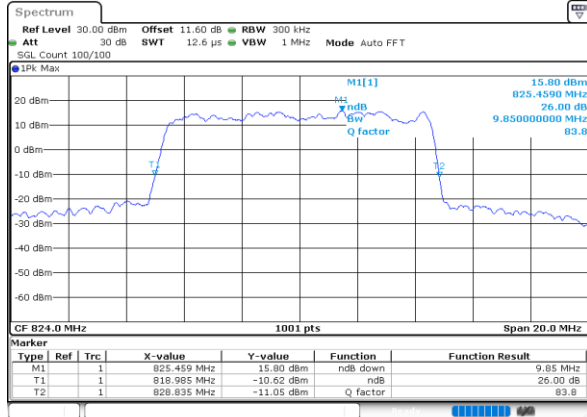
LTE Band 26

Middle Channel / 10MHz / QPSK



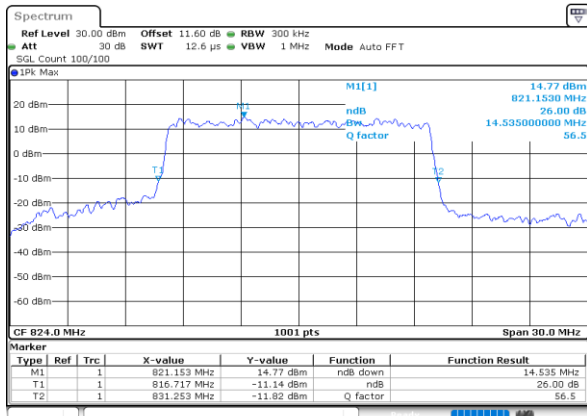
Date: 19.OCT.2023 01:00:43

Middle Channel / 10MHz / 16QAM



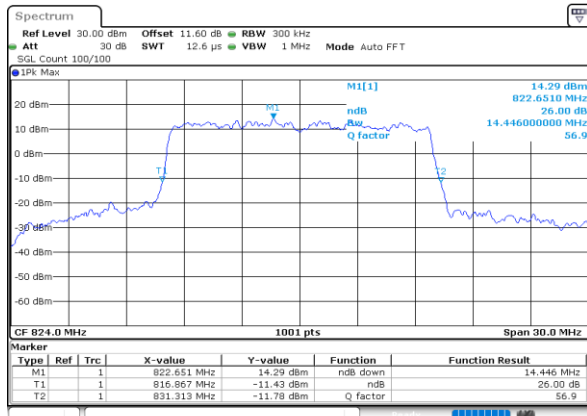
Date: 19.OCT.2023 01:01:13

Middle Channel / 15MHz / QPSK



Date: 19.OCT.2023 01:02:59

Middle Channel / 15MHz / 16QAM

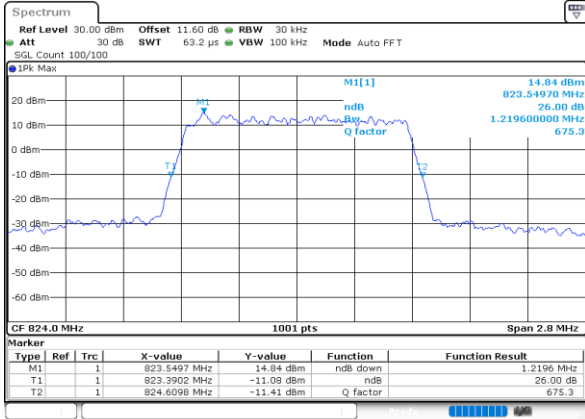


Date: 19.OCT.2023 01:03:29



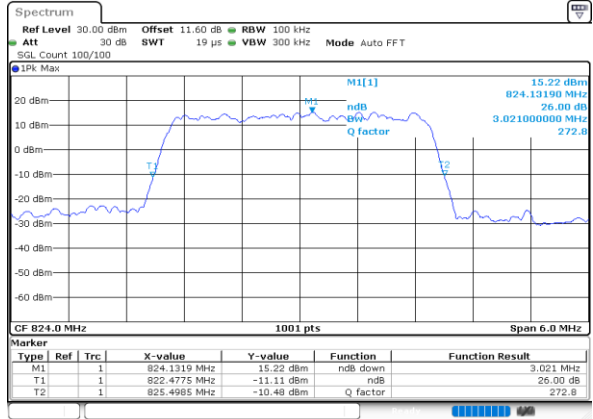
LTE Band 26

Middle Channel / 1.4MHz / 64QAM



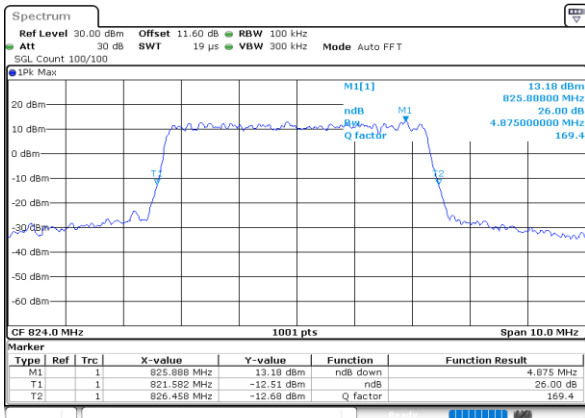
Date: 19.OCT.2023 00:55:23

Middle Channel / 3MHz / 64QAM



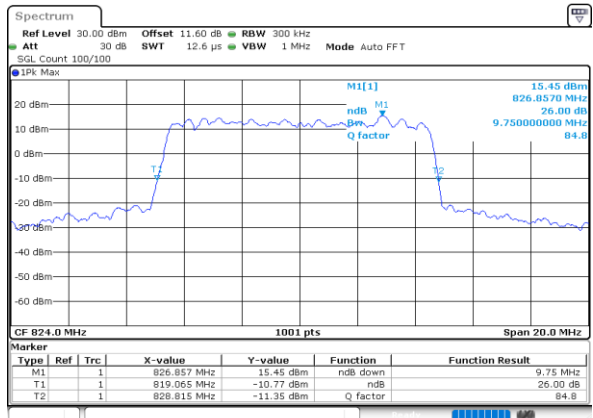
Date: 19.OCT.2023 00:57:38

Middle Channel / 5MHz / 64QAM



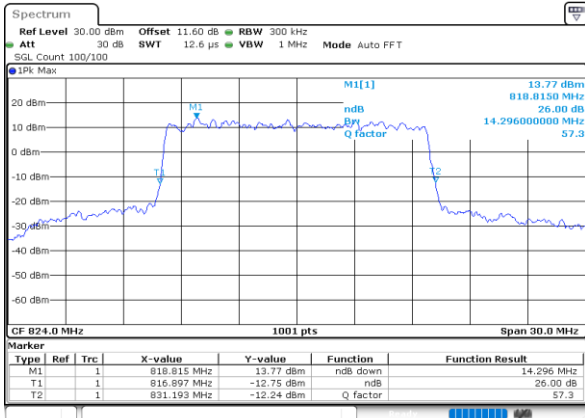
Date: 19.OCT.2023 00:59:54

Middle Channel / 10MHz / 64QAM



Date: 19.OCT.2023 01:02:10

Middle Channel / 15MHz / 64QAM



Date: 19.OCT.2023 01:04:26

N/A



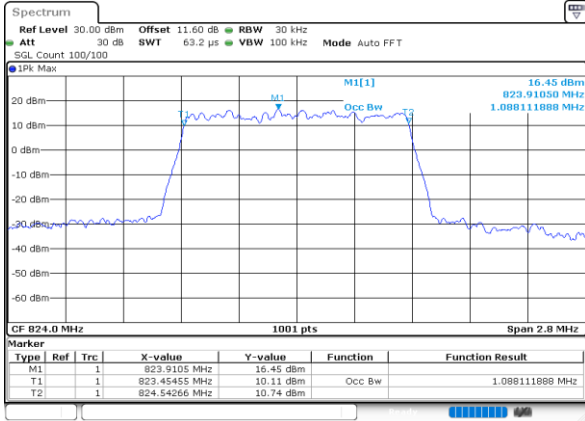
Occupied Bandwidth

Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.10	2.71	2.72	4.49	4.49	9.01	8.99	13.46	13.46	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.09	-	2.75	-	4.49	-	8.99	-	13.46	-	-	-



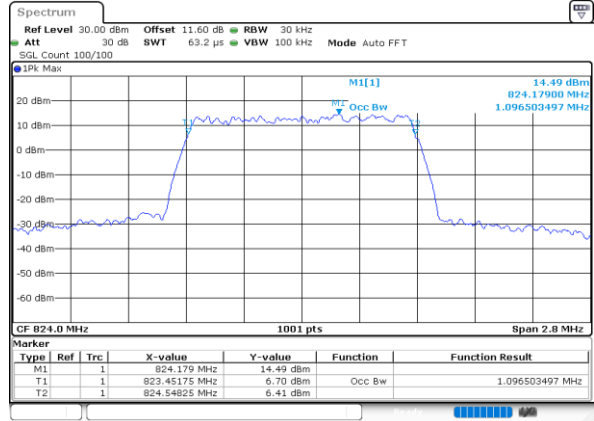
LTE Band 26

Middle Channel / 1.4MHz / QPSK



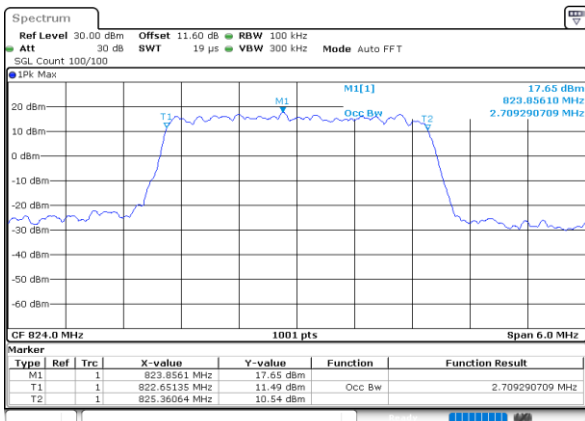
Date: 19.OCT.2023 00:53:41

Middle Channel / 1.4MHz / 16QAM



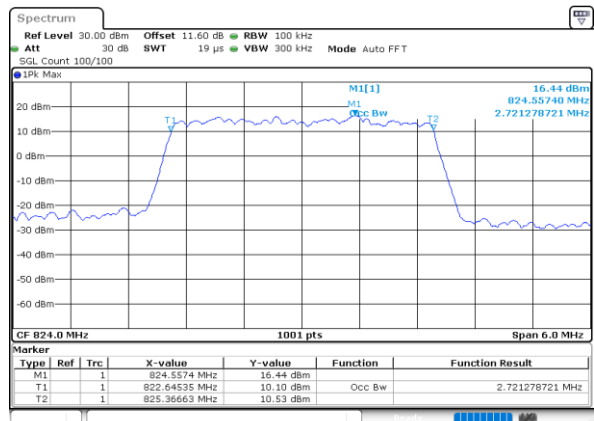
Date: 19.OCT.2023 00:54:39

Middle Channel / 3MHz / QPSK



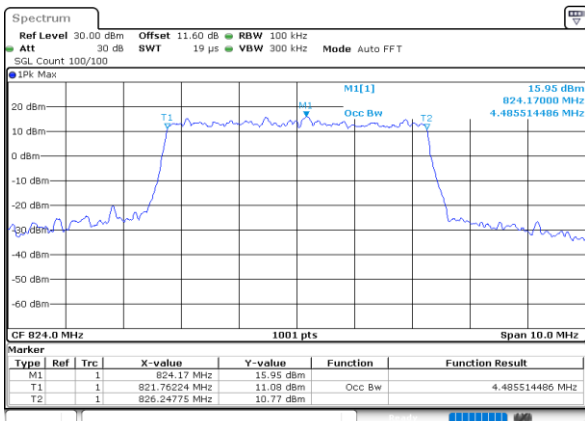
Date: 19.OCT.2023 00:55:57

Middle Channel / 3MHz / 16QAM



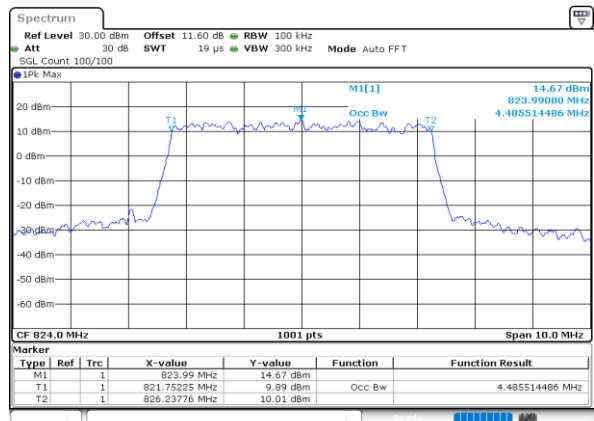
Date: 19.OCT.2023 00:56:55

Middle Channel / 5MHz / QPSK



Date: 19.OCT.2023 00:58:13

Middle Channel / 5MHz / 16QAM

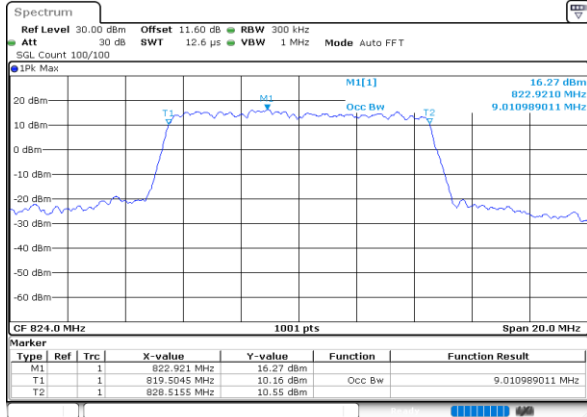


Date: 19.OCT.2023 00:59:11



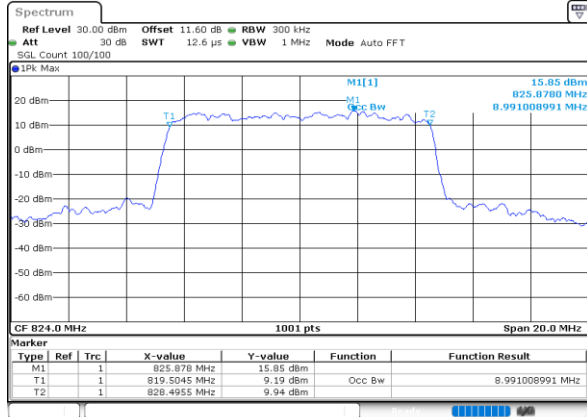
LTE Band 26

Middle Channel / 10MHz / QPSK



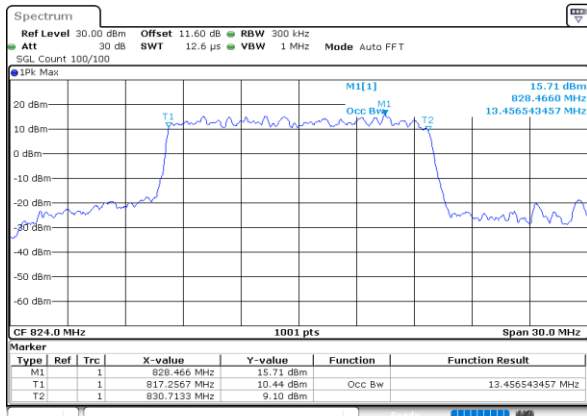
Date: 19.OCT.2023 01:00:29

Middle Channel / 10MHz / 16QAM



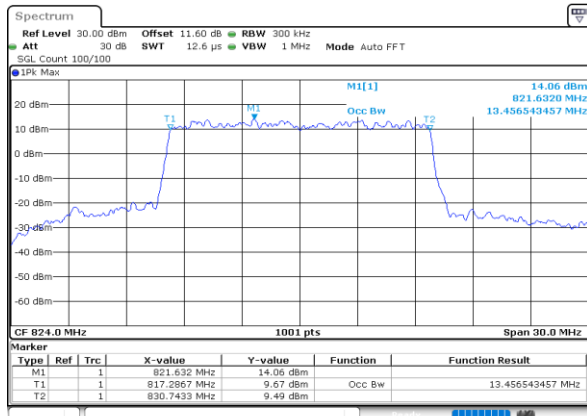
Date: 19.OCT.2023 01:01:27

Middle Channel / 15MHz / QPSK



Date: 19.OCT.2023 01:02:45

Middle Channel / 15MHz / 16QAM

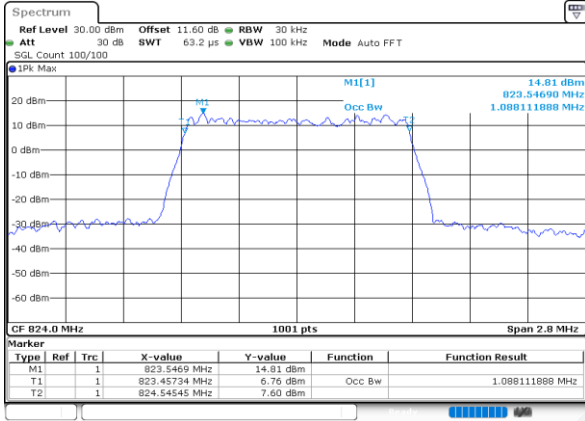


Date: 19.OCT.2023 01:03:43



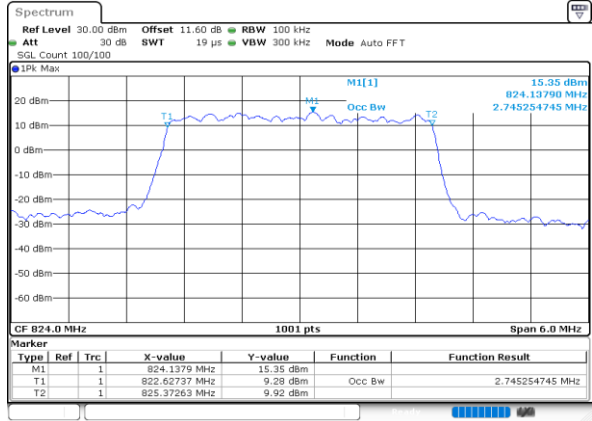
LTE Band 26

Middle Channel / 1.4MHz / 64QAM



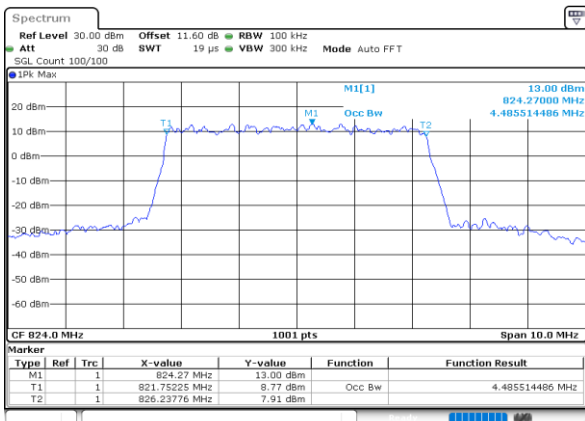
Date: 19.OCT.2023 00:55:08

Middle Channel / 3MHz / 64QAM



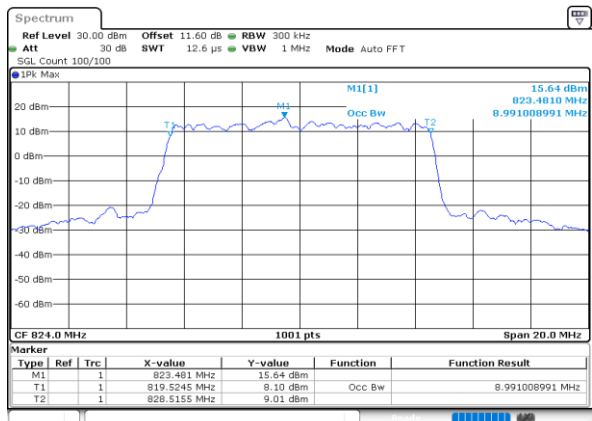
Date: 19.OCT.2023 00:57:24

Middle Channel / 5MHz / 64QAM



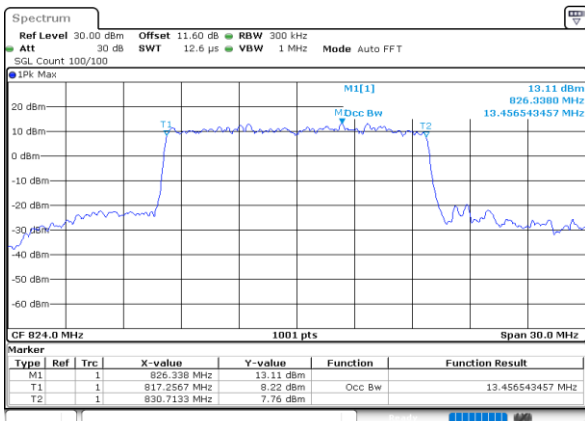
Date: 19.OCT.2023 00:59:40

Middle Channel / 10MHz / 64QAM



Date: 19.OCT.2023 01:01:56

Middle Channel / 15MHz / 64QAM



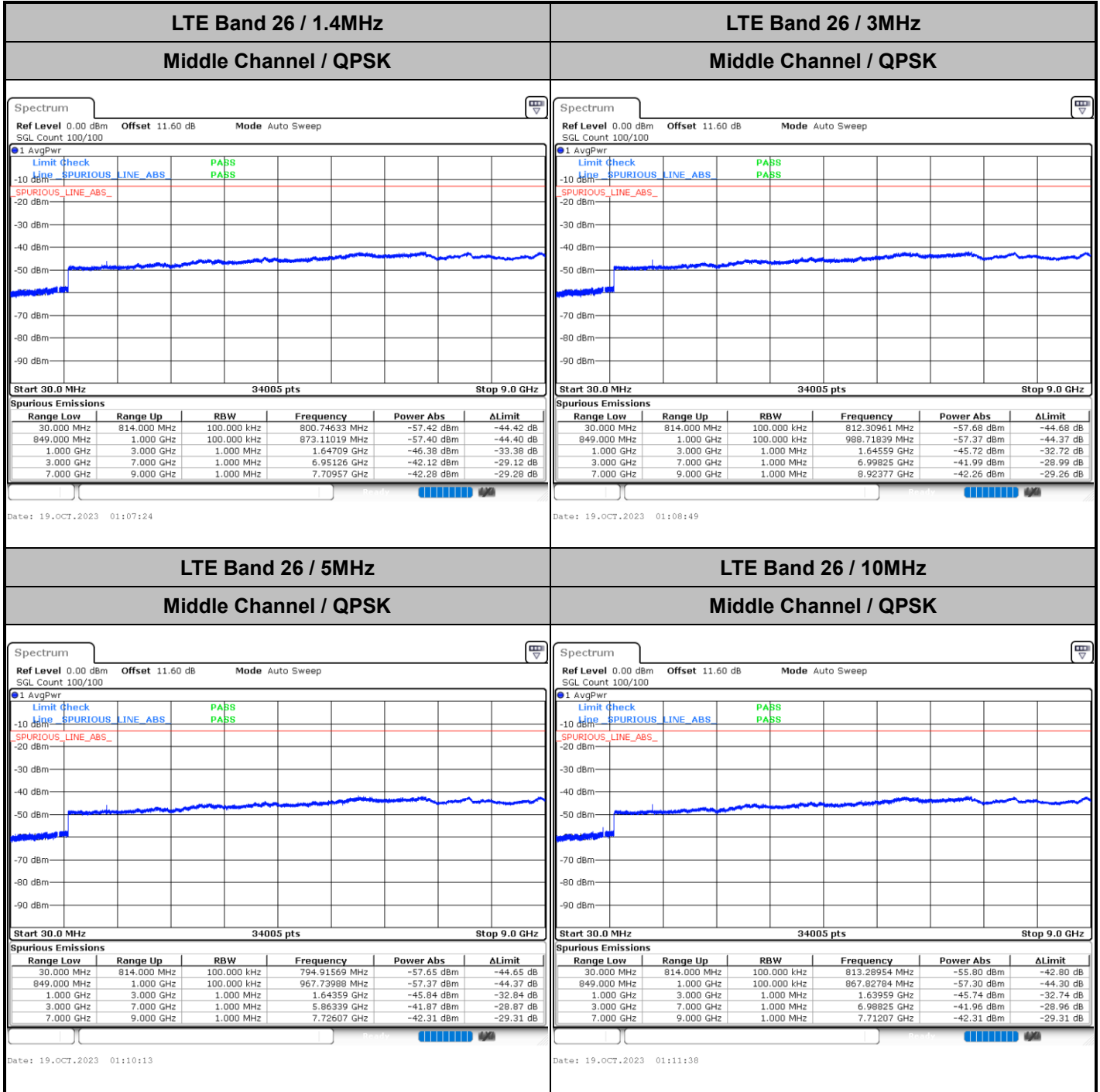
Date: 19.OCT.2023 01:04:12

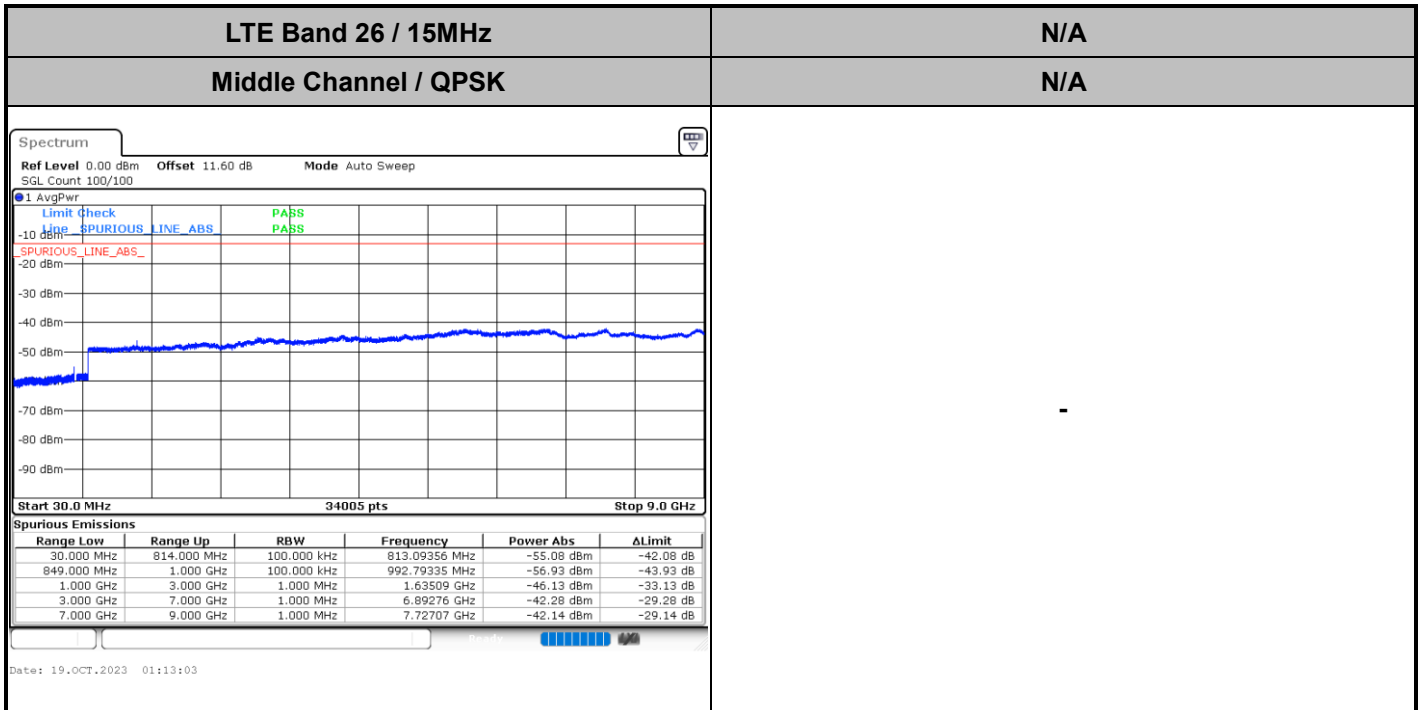
N/A





# Conducted Spurious Emission







### Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5 ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0136	PASS
40	Normal Voltage	0.0170	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0167	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0061	
-20	Normal Voltage	0.0087	
-30	Normal Voltage	0.0200	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0168	

**Note:** Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.2 V.



Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	2.5 ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0059	PASS
40	Normal Voltage	0.0154	
30	Normal Voltage	0.0142	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0153	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0133	
-30	Normal Voltage	0.0030	
20	Maximum Voltage	0.0067	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0046	

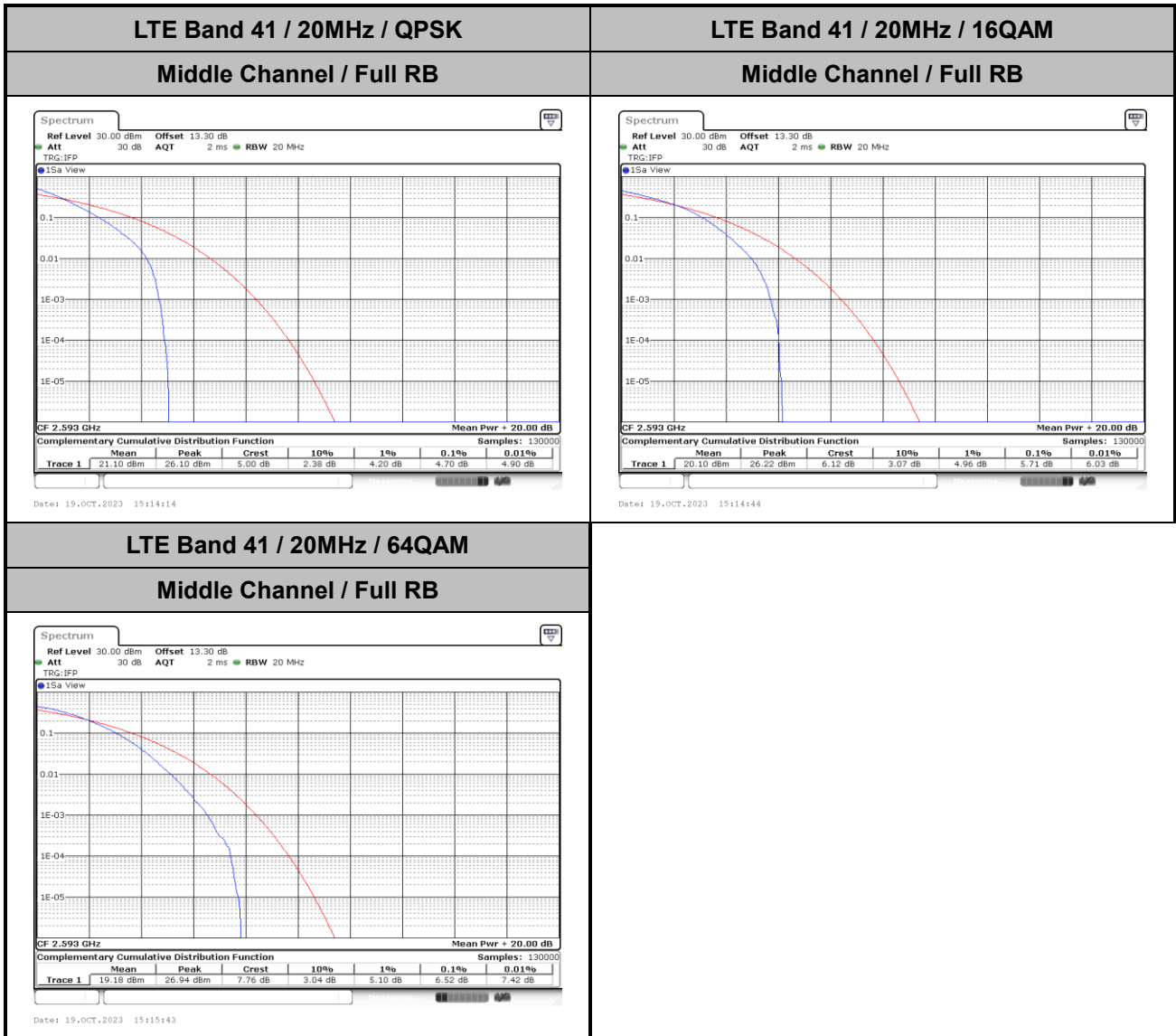
**Note:** Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.2 V.



# LTE Band 41

## Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.70	5.71	6.52	-	PASS





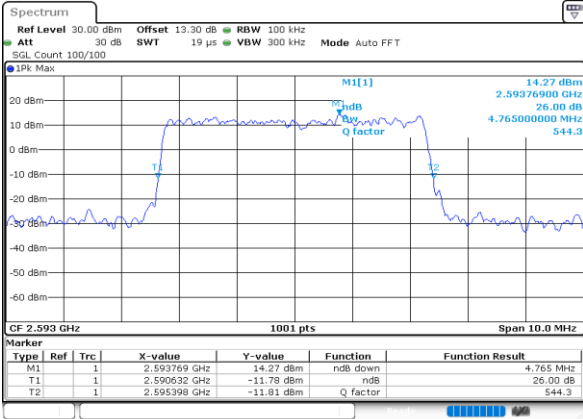
**26dB Bandwidth**

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
Middle CH	-	-	-	-	4.77	5.00	9.71	9.69	14.27	14.15	19.02	18.66
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.89	-	9.75	-	14.51	-	18.78	-



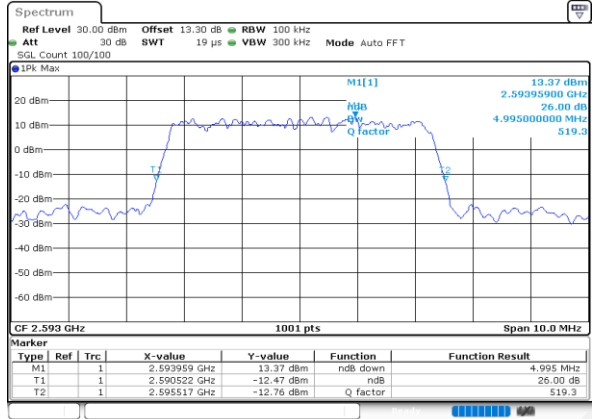
LTE Band 41

Middle Channel / 5MHz / QPSK



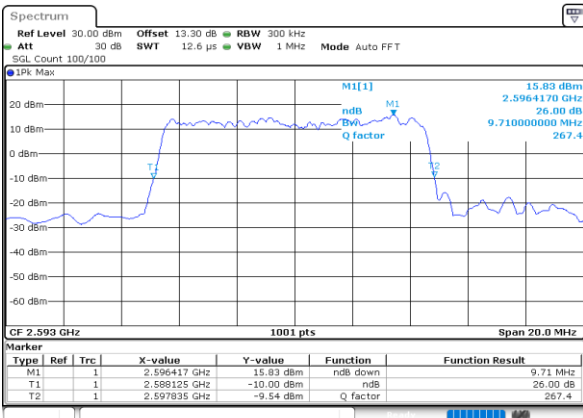
Date: 19.OCT.2023 14:44:12

Middle Channel / 5MHz / 16QAM



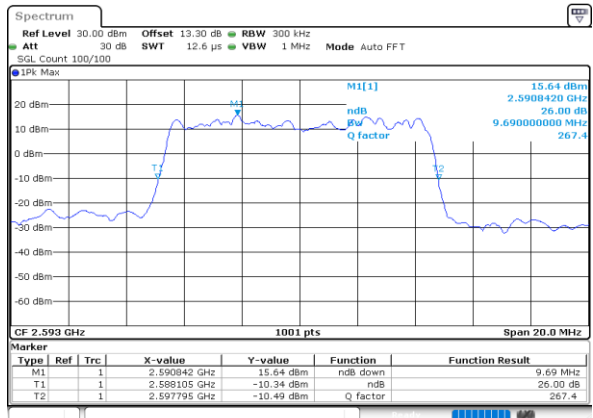
Date: 19.OCT.2023 14:44:55

Middle Channel / 10MHz / QPSK



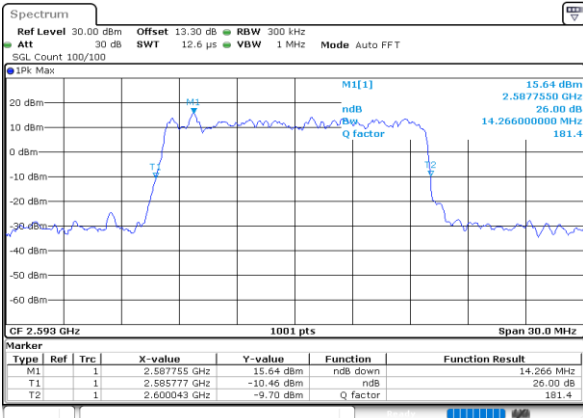
Date: 19.OCT.2023 14:57:32

Middle Channel / 10MHz / 16QAM



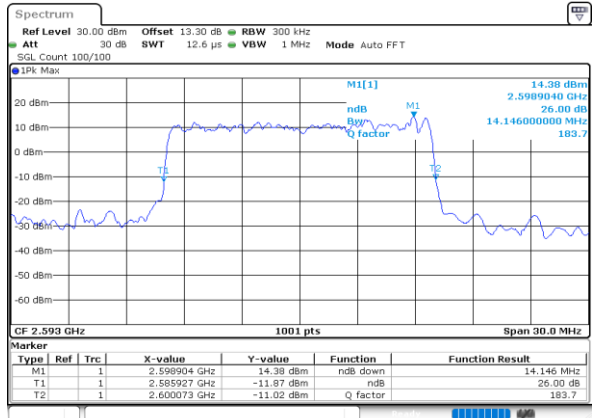
Date: 19.OCT.2023 14:58:15

Middle Channel / 15MHz / QPSK



Date: 19.OCT.2023 15:05:45

Middle Channel / 15MHz / 16QAM

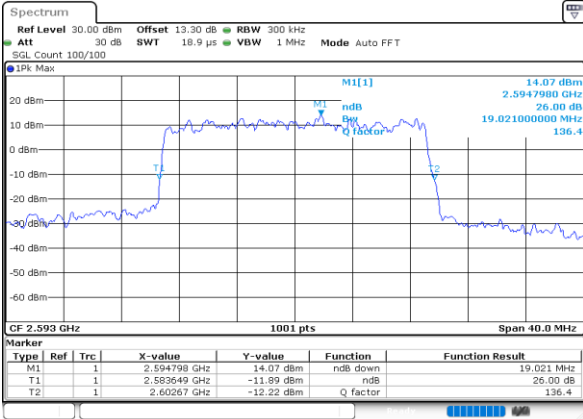


Date: 19.OCT.2023 15:06:28



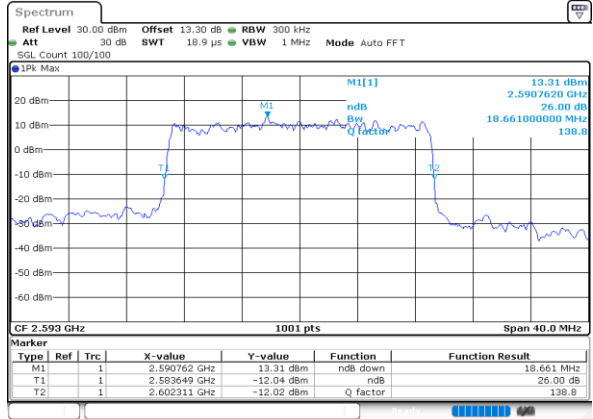
LTE Band 41

Middle Channel / 20MHz / QPSK



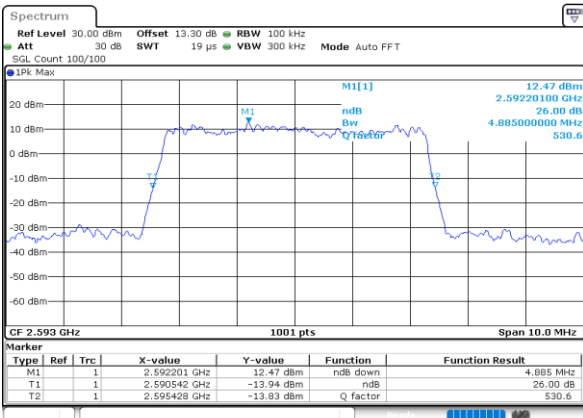
Date: 19.OCT.2023 15:13:59

Middle Channel / 20MHz / 16QAM



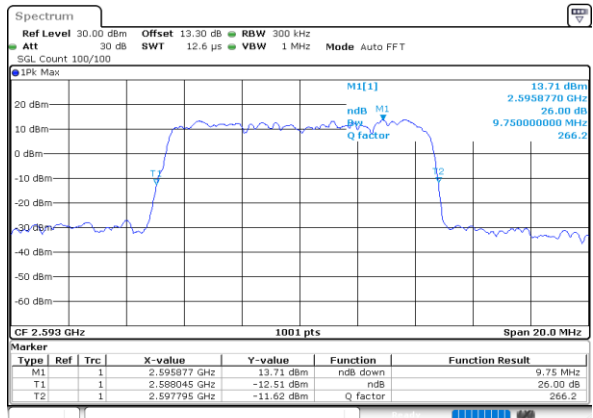
Date: 19.OCT.2023 15:15:13

Middle Channel / 5MHz / 64QAM



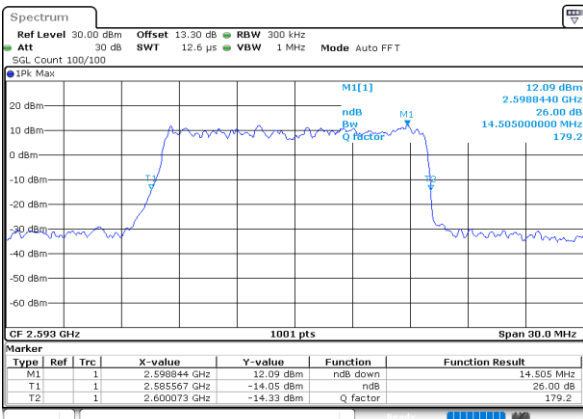
Date: 19.OCT.2023 14:45:38

Middle Channel / 10MHz / 64QAM



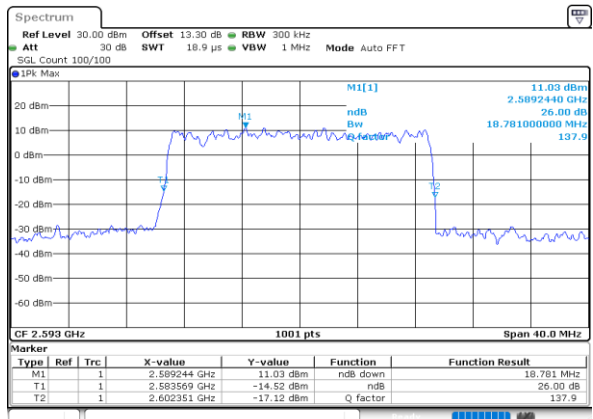
Date: 19.OCT.2023 14:58:58

Middle Channel / 15MHz / 64QAM



Date: 19.OCT.2023 15:07:11

Middle Channel / 20MHz / 64QAM



Date: 19.OCT.2023 15:16:12





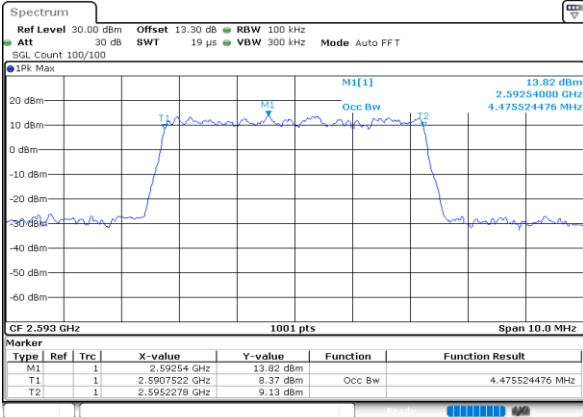
Occupied Bandwidth

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
Middle CH	-	-	-	-	4.48	4.47	9.05	9.07	13.49	13.43	17.82	17.78
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.50	-	9.05	-	13.46	-	17.90	-



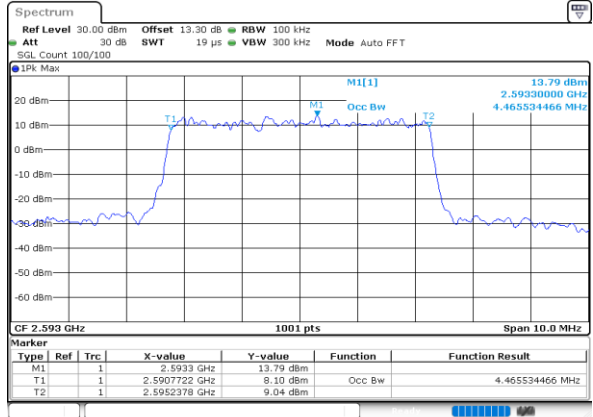
LTE Band 41

Middle Channel / 5MHz / QPSK



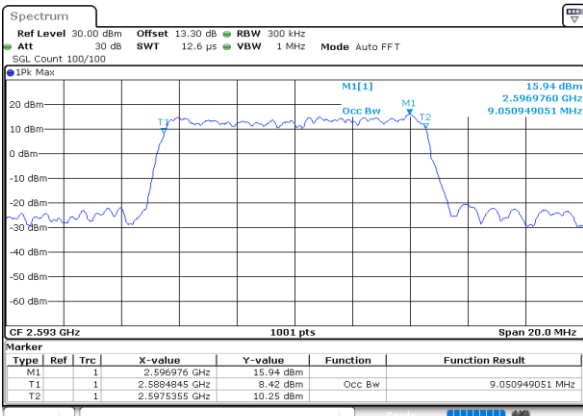
Date: 19.OCT.2023 14:43:58

Middle Channel / 5MHz / 16QAM



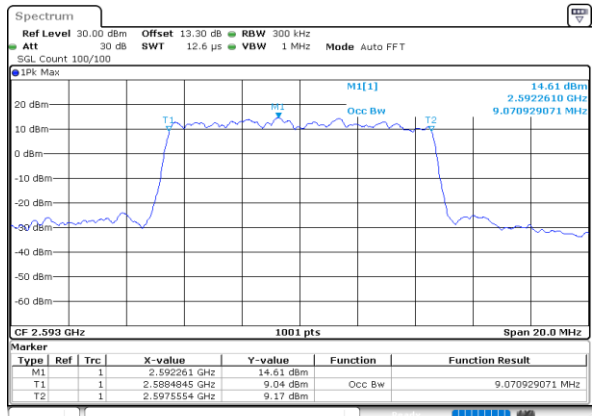
Date: 19.OCT.2023 14:44:41

Middle Channel / 10MHz / QPSK



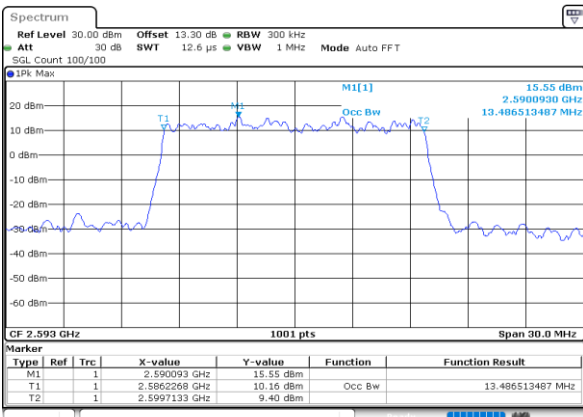
Date: 19.OCT.2023 14:57:17

Middle Channel / 10MHz / 16QAM



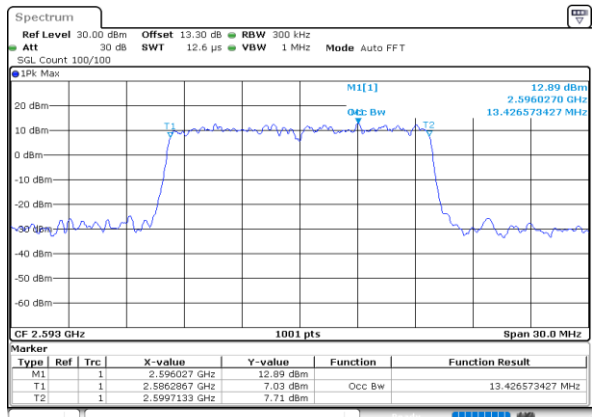
Date: 19.OCT.2023 14:58:01

Middle Channel / 15MHz / QPSK



Date: 19.OCT.2023 15:05:31

Middle Channel / 15MHz / 16QAM

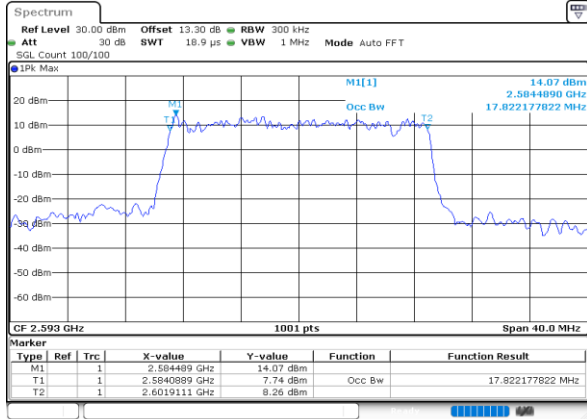


Date: 19.OCT.2023 15:06:14



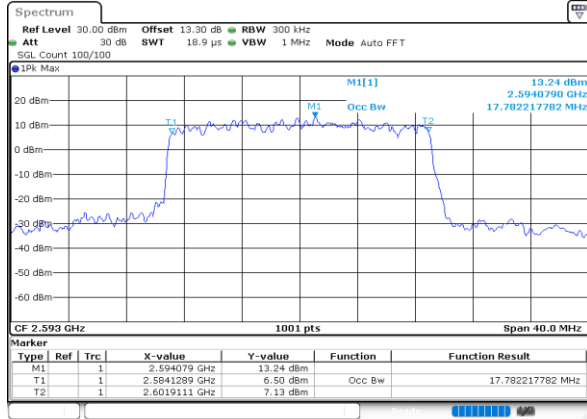
LTE Band 41

Middle Channel / 20MHz / QPSK



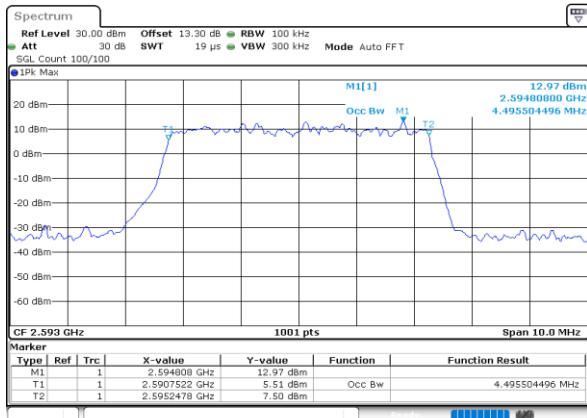
Date: 19.OCT.2023 15:13:45

Middle Channel / 20MHz / 16QAM



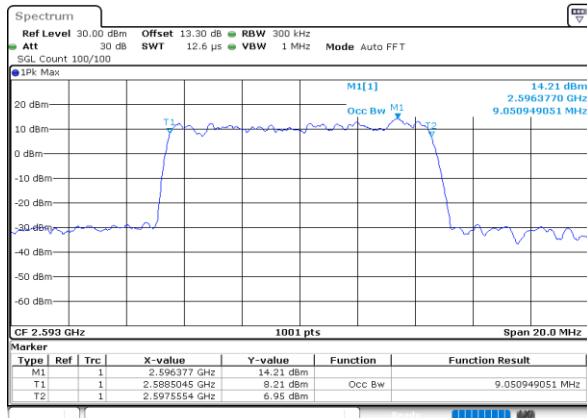
Date: 19.OCT.2023 15:14:59

Middle Channel / 5MHz / 64QAM



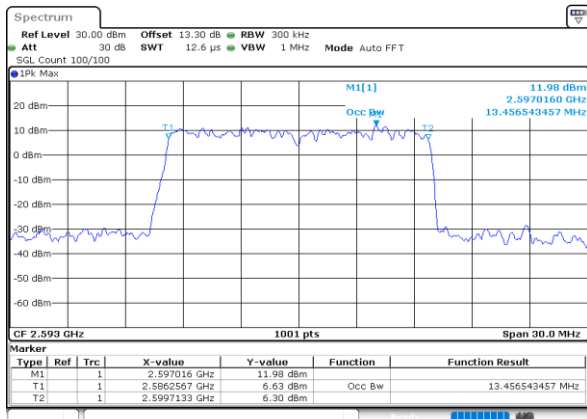
Date: 19.OCT.2023 14:45:24

Middle Channel / 10MHz / 64QAM



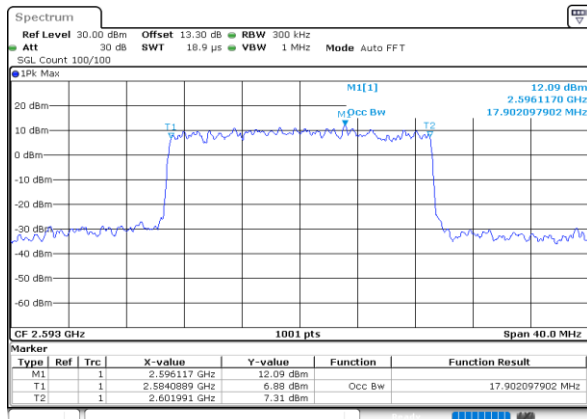
Date: 19.OCT.2023 14:58:43

Middle Channel / 15MHz / 64QAM



Date: 19.OCT.2023 15:06:57

Middle Channel / 20MHz / 64QAM



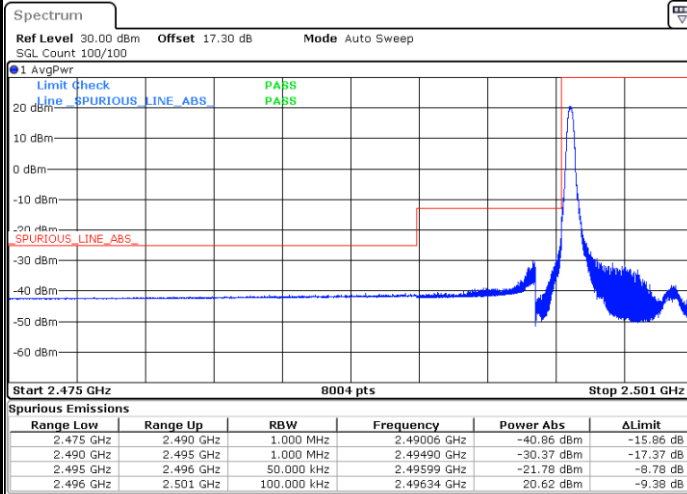
Date: 19.OCT.2023 15:15:58



# Conducted Band Edge

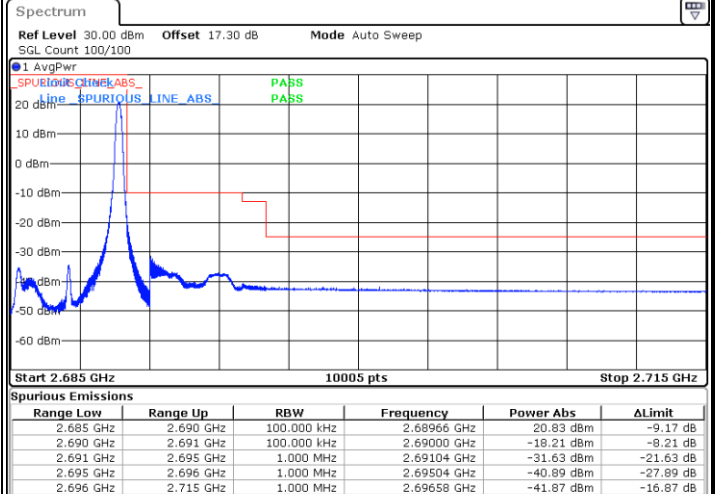
## LTE Band 41 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



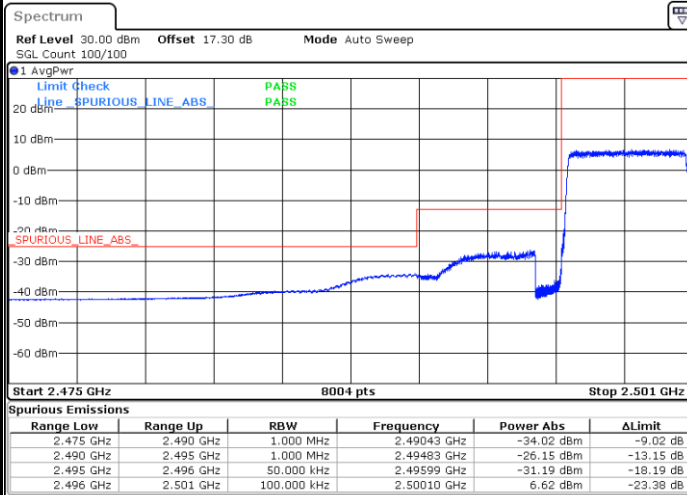
Date: 19.OCT.2023 14:35:49

### Highest Band Edge / 1 RB



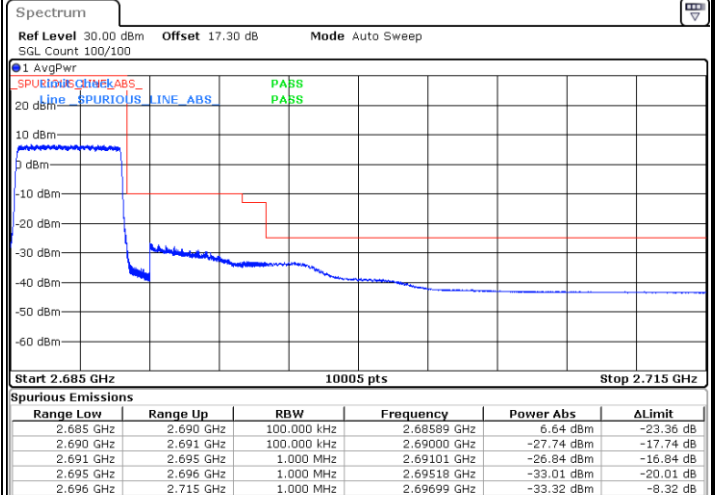
Date: 19.OCT.2023 14:50:08

### Lowest Band Edge / Full RB



Date: 19.OCT.2023 14:40:08

### Highest Band Edge / Full RB

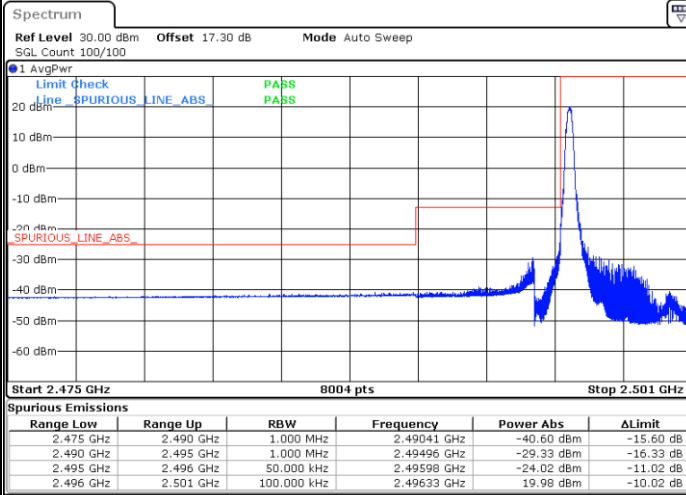


Date: 19.OCT.2023 14:46:45



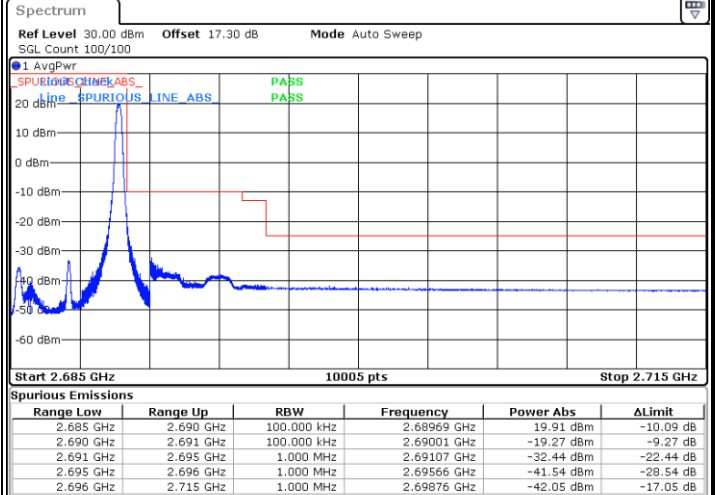
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



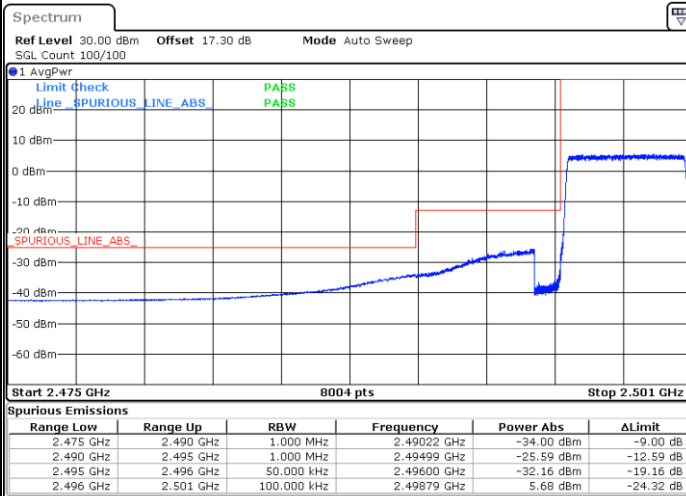
Date: 19.OCT.2023 14:36:49

Highest Band Edge / 1 RB



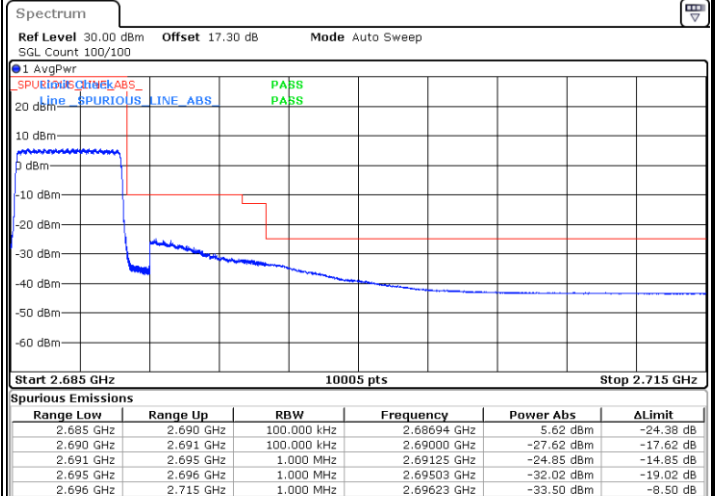
Date: 19.OCT.2023 14:51:15

Lowest Band Edge / Full RB



Date: 19.OCT.2023 14:41:09

Highest Band Edge / Full RB

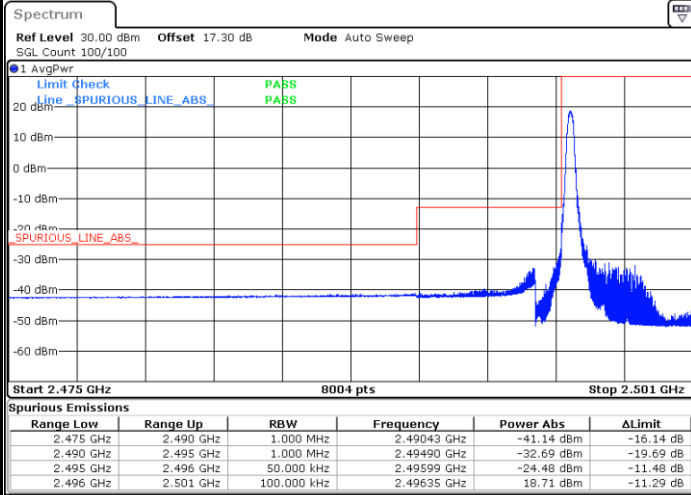


Date: 19.OCT.2023 14:47:52



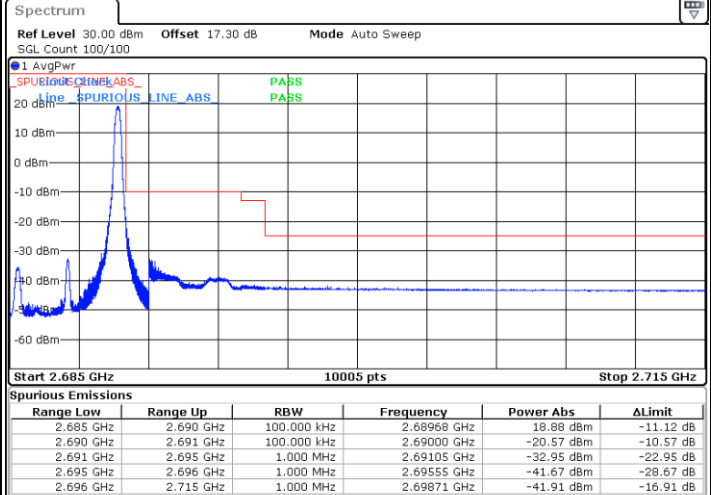
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



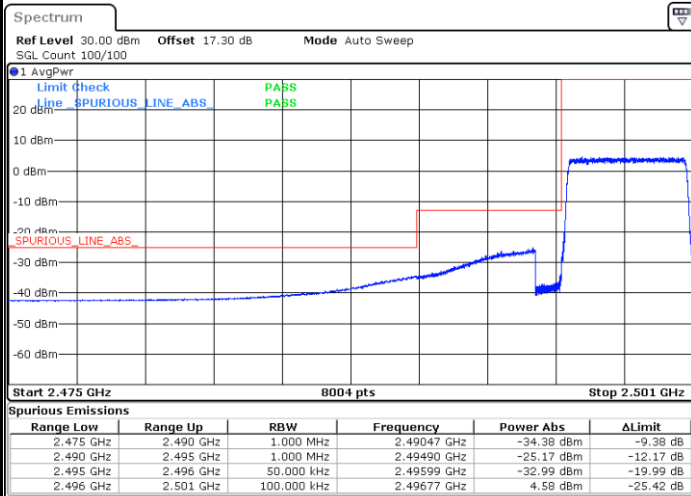
Date: 19.OCT.2023 14:37:49

Highest Band Edge / 1 RB



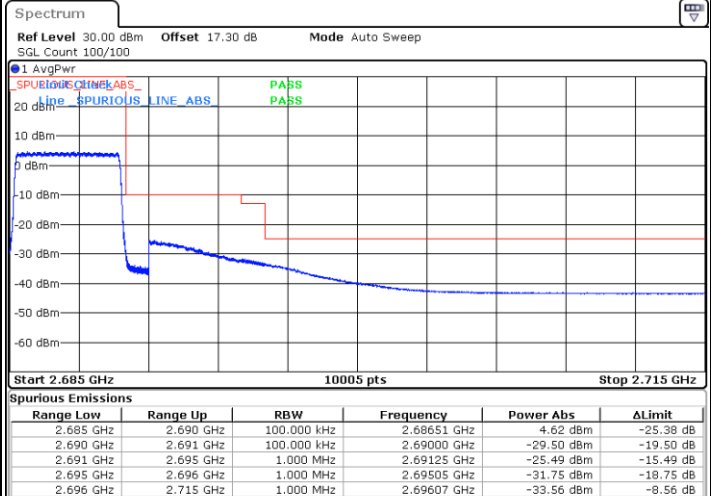
Date: 19.OCT.2023 14:52:23

Lowest Band Edge / Full RB



Date: 19.OCT.2023 14:42:09

Highest Band Edge / Full RB

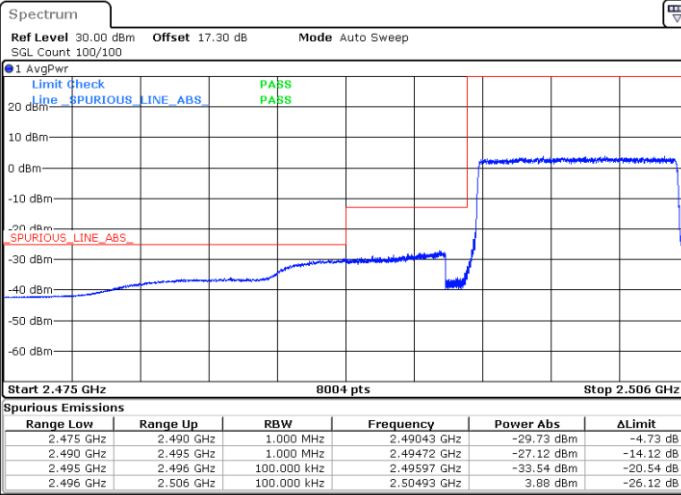


Date: 19.OCT.2023 14:49:00



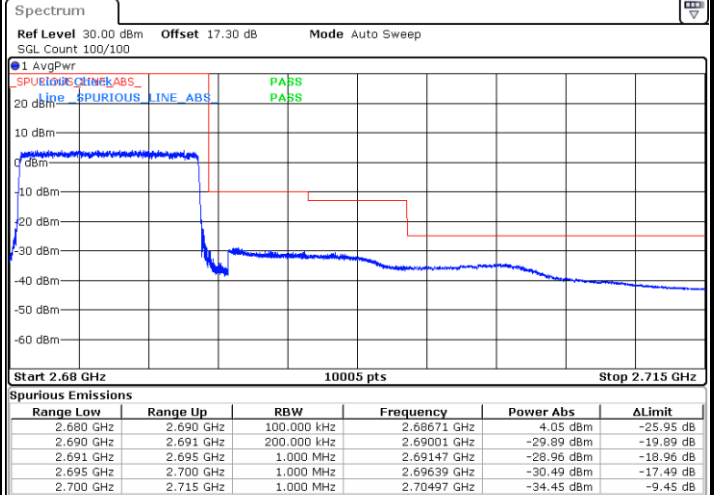
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 19.OCT.2023 14:54:47

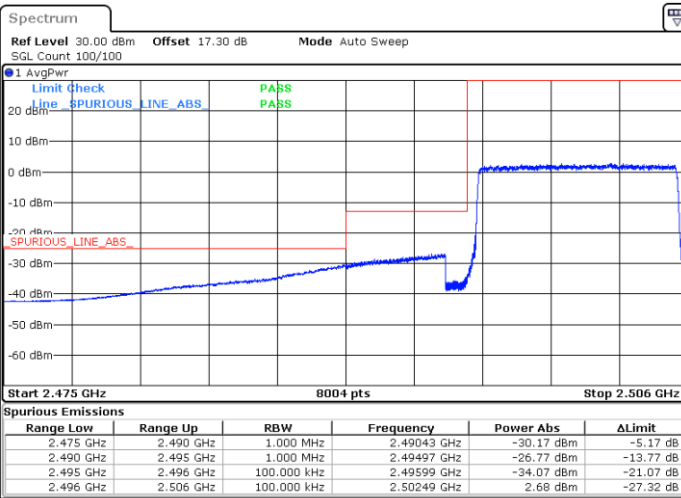
Highest Band Edge / Full RB



Date: 19.OCT.2023 14:59:56

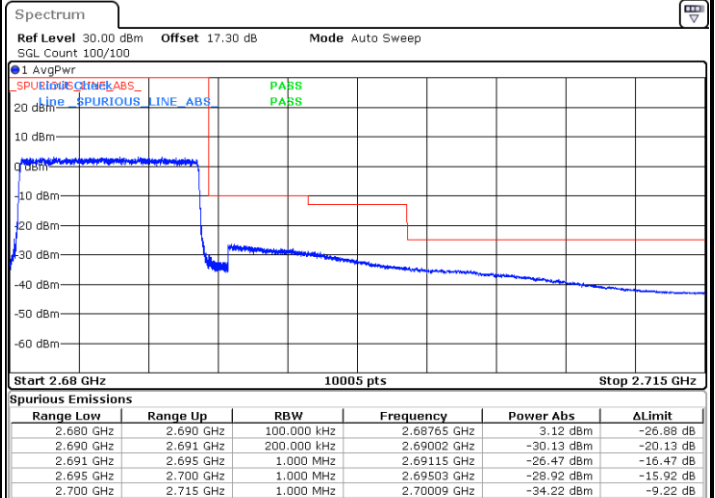
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 19.OCT.2023 14:55:47

Highest Band Edge / Full RB



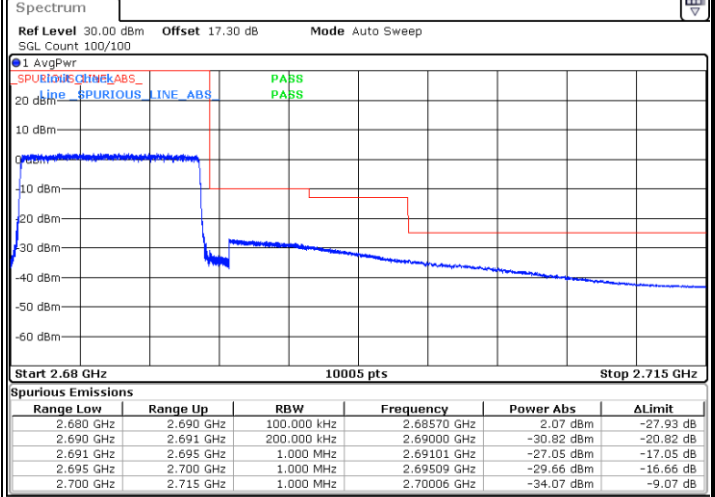
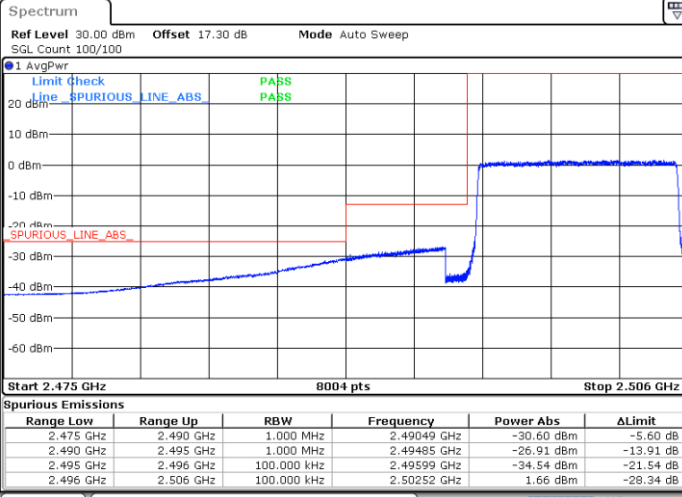
Date: 19.OCT.2023 15:00:56



LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2023 14:56:47

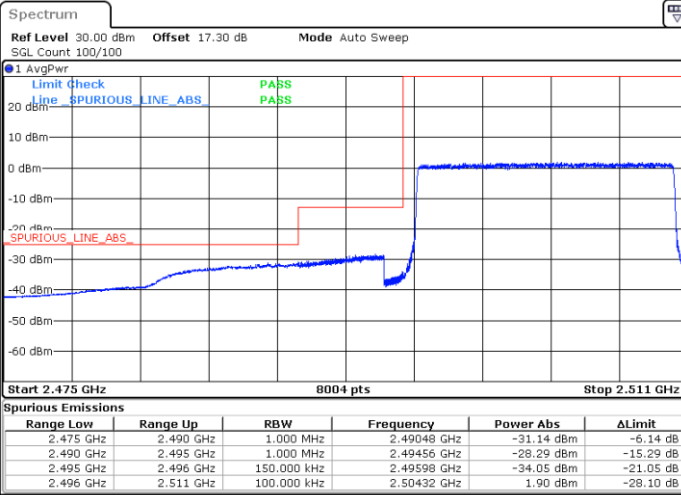
Date: 19.OCT.2023 15:01:56





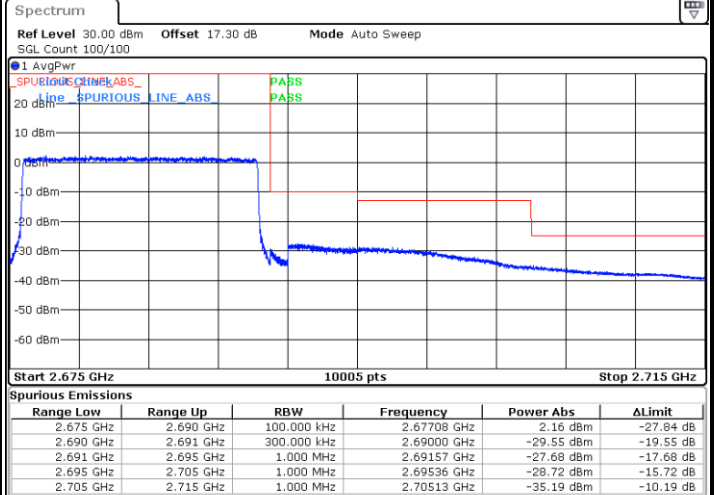
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 19.OCT.2023 15:03:01

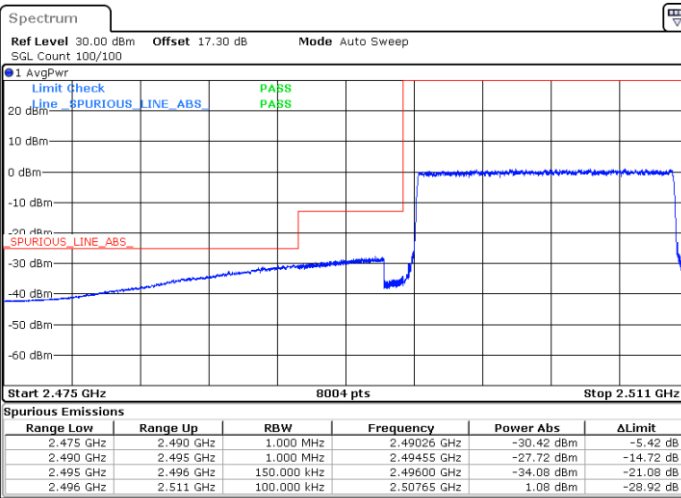
Highest Band Edge / Full RB



Date: 19.OCT.2023 15:08:09

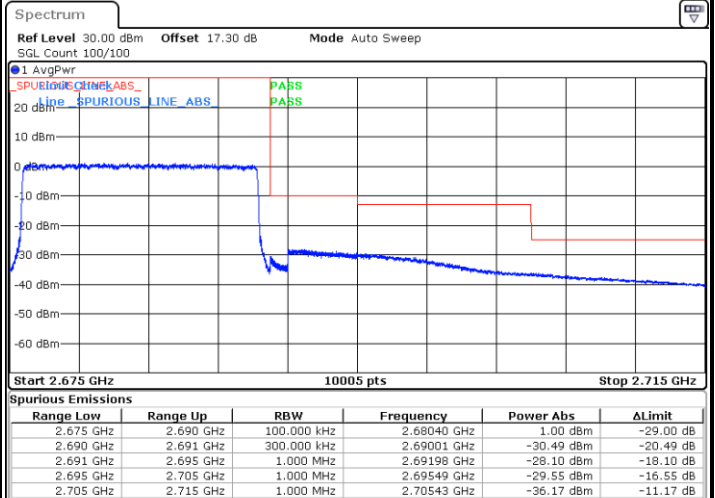
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Date: 19.OCT.2023 15:04:01

Highest Band Edge / Full RB



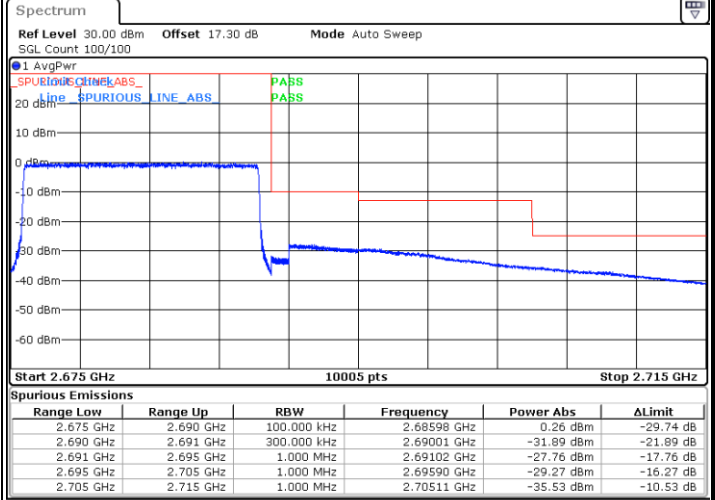
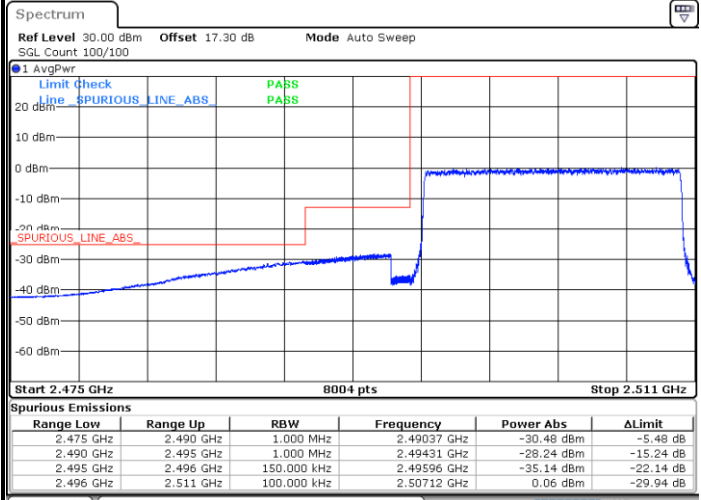
Date: 19.OCT.2023 15:09:09



LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2023 15:05:01

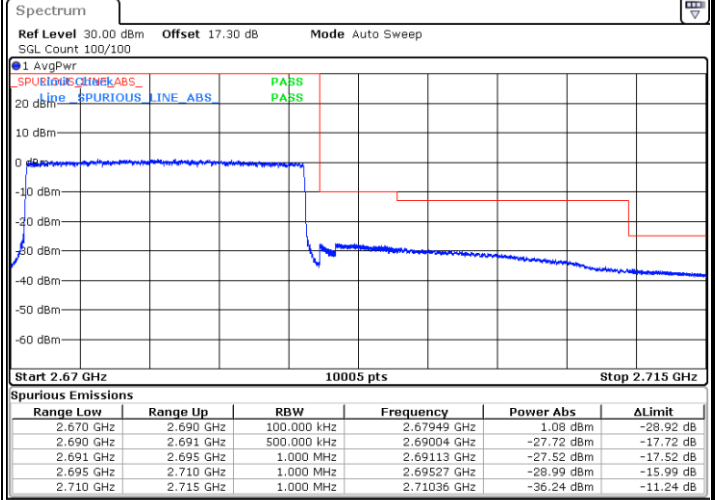
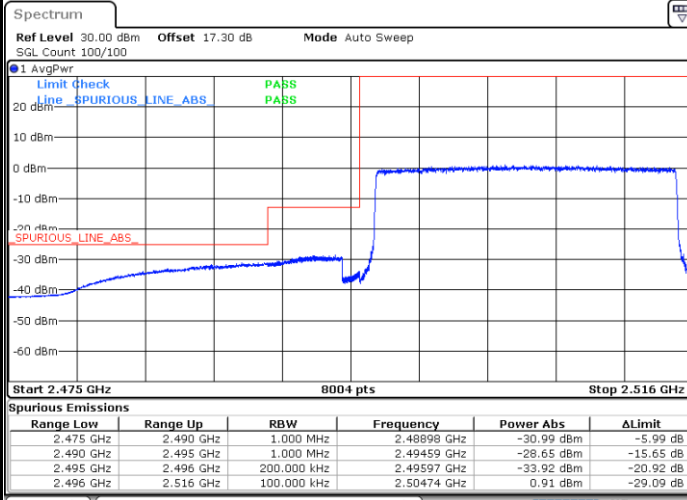
Date: 19.OCT.2023 15:10:09



LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



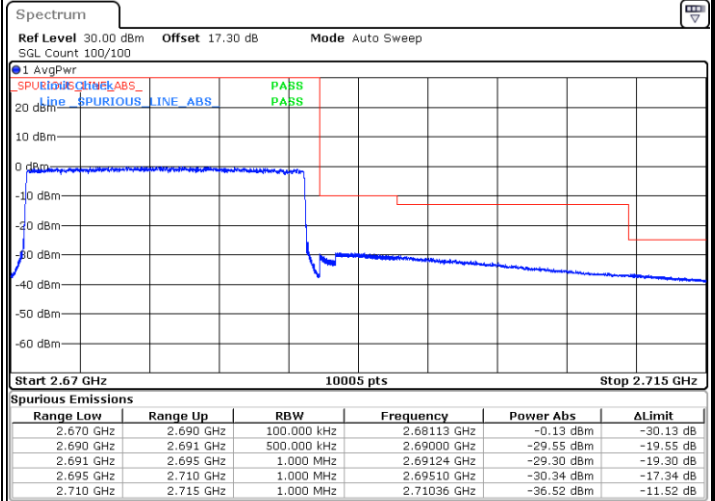
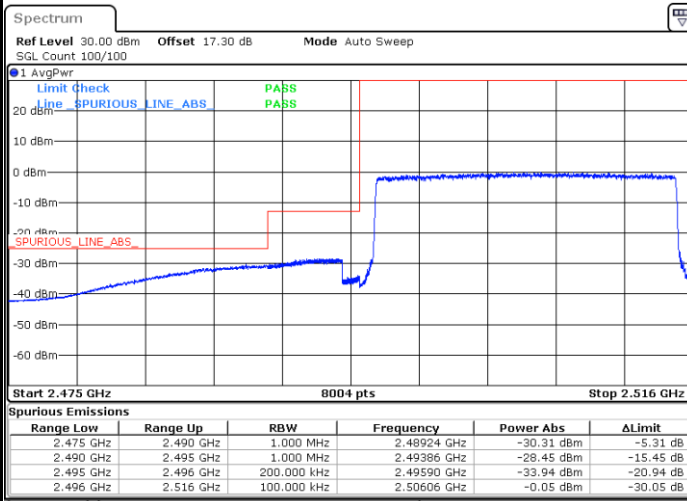
Date: 19.OCT.2023 15:11:14

Date: 19.OCT.2023 15:17:10

LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2023 15:12:14

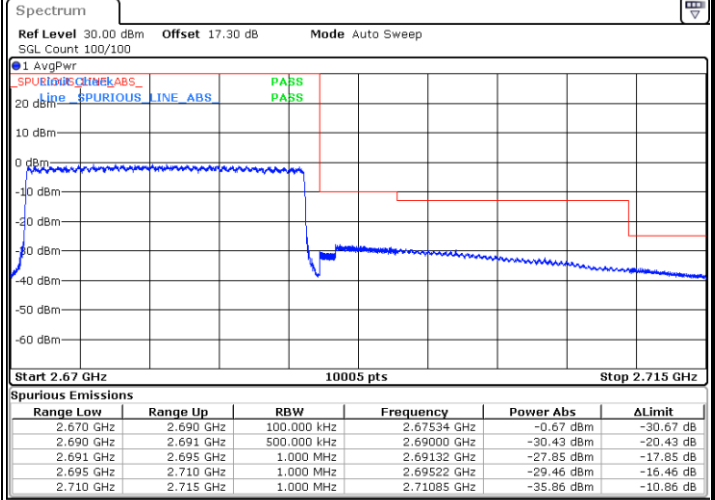
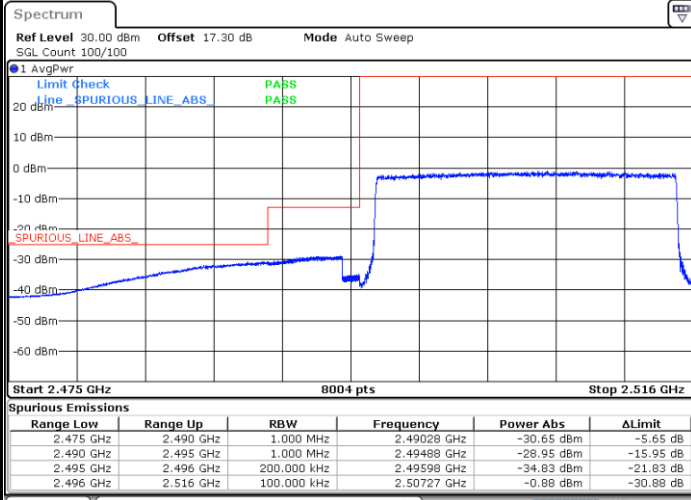
Date: 19.OCT.2023 15:18:10



LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2023 15:13:14

Date: 19.OCT.2023 15:19:10