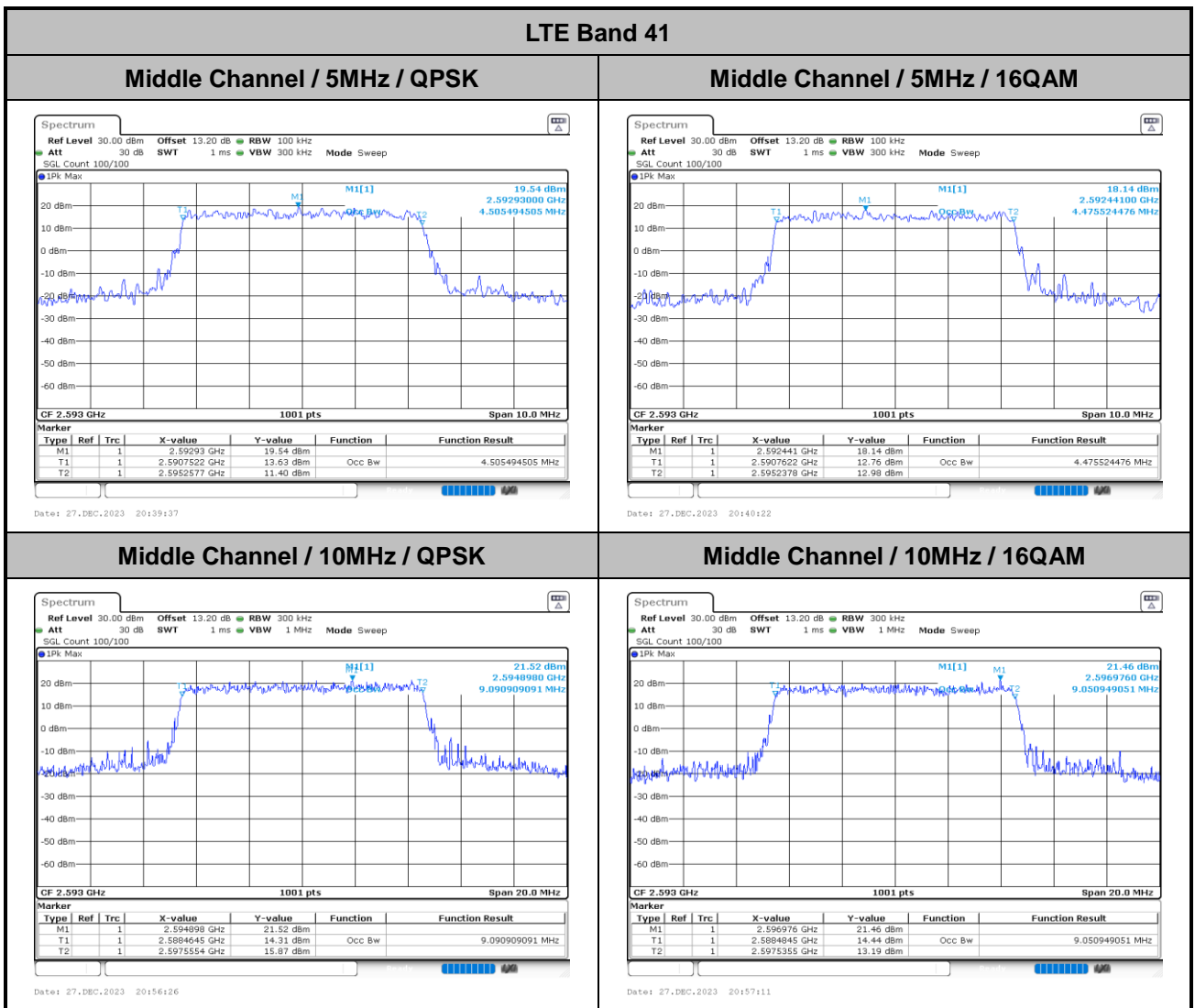




Occupied Bandwidth

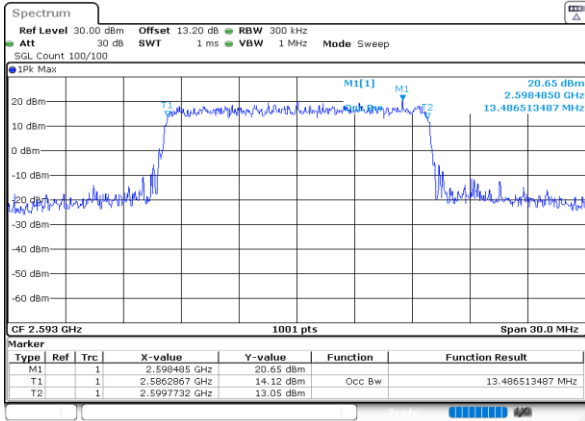
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.50	4.47	9.09	9.05	13.48	13.45	17.98	17.90
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.50	4.49	9.11	9.07	13.48	13.45	17.86	17.94





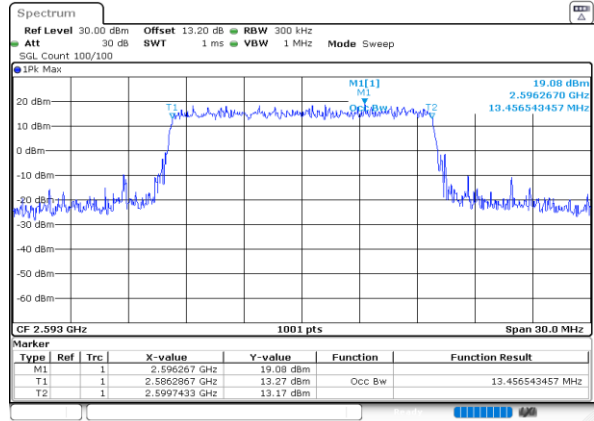
LTE Band 41

Middle Channel / 15MHz / QPSK



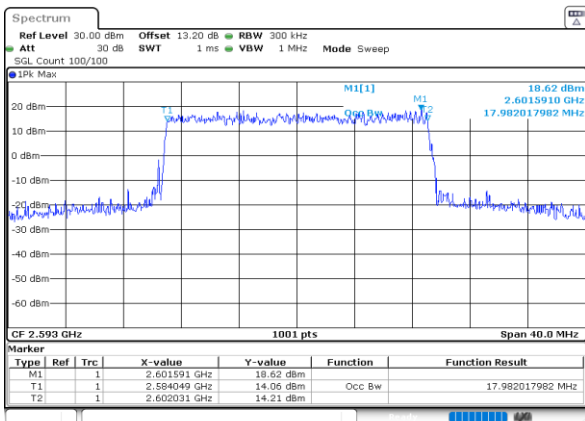
Date: 27.DEC.2023 21:19:01

Middle Channel / 15MHz / 16QAM



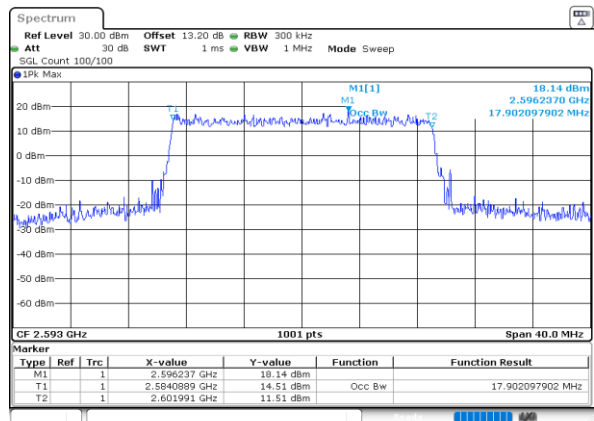
Date: 27.DEC.2023 21:19:46

Middle Channel / 20MHz / QPSK



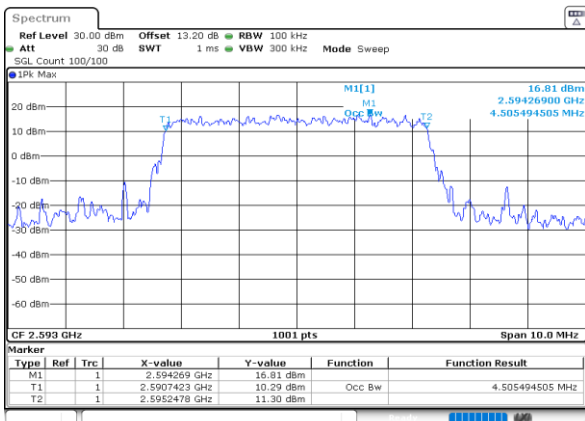
Date: 27.DEC.2023 21:34:36

Middle Channel / 20MHz / 16QAM



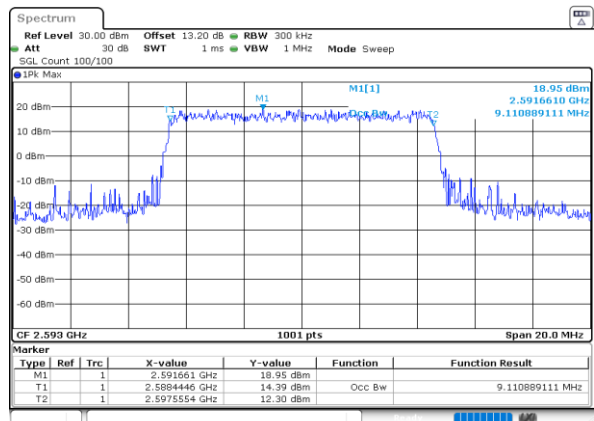
Date: 27.DEC.2023 21:36:08

Middle Channel / 5MHz / 64QAM



Date: 27.DEC.2023 20:41:07

Middle Channel / 10MHz / 64QAM

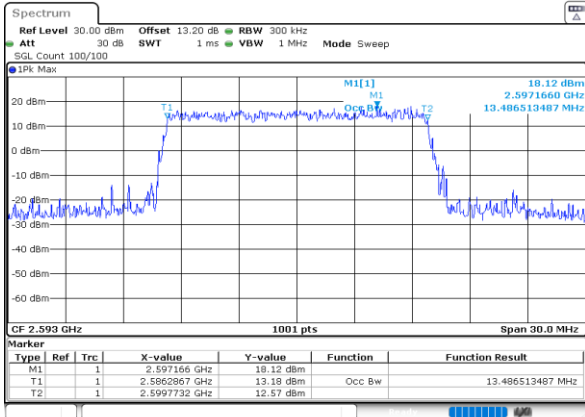


Date: 27.DEC.2023 20:57:56



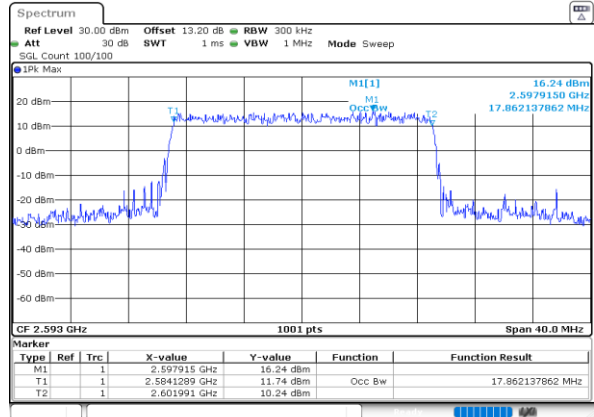
LTE Band 41

Middle Channel / 15MHz / 64QAM



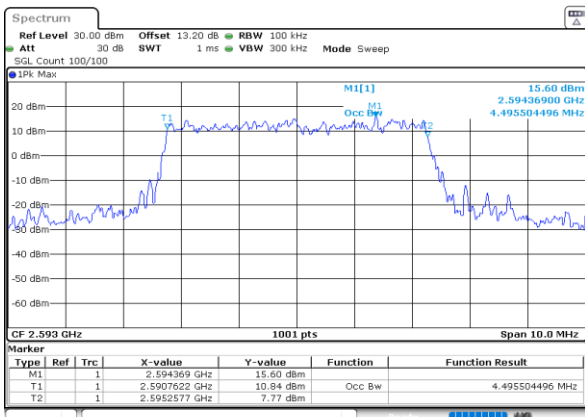
Date: 27.DEC.2023 21:20:31

Middle Channel / 20MHz / 64QAM



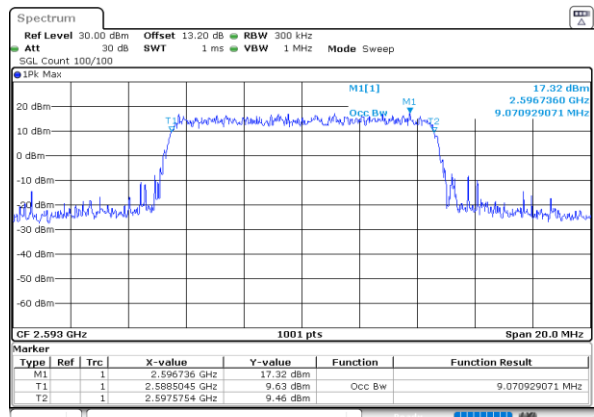
Date: 27.DEC.2023 21:19:16

Middle Channel / 5MHz / 256QAM



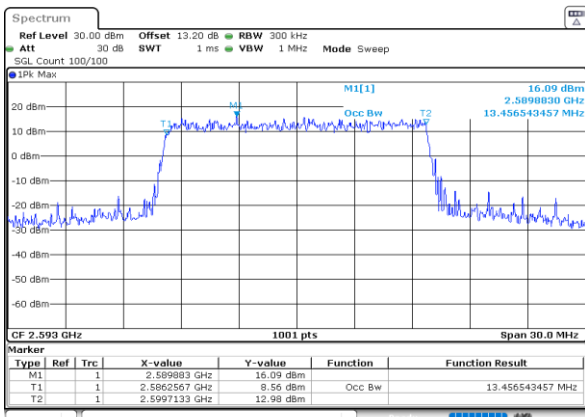
Date: 27.DEC.2023 20:41:52

Middle Channel / 10MHz / 256QAM



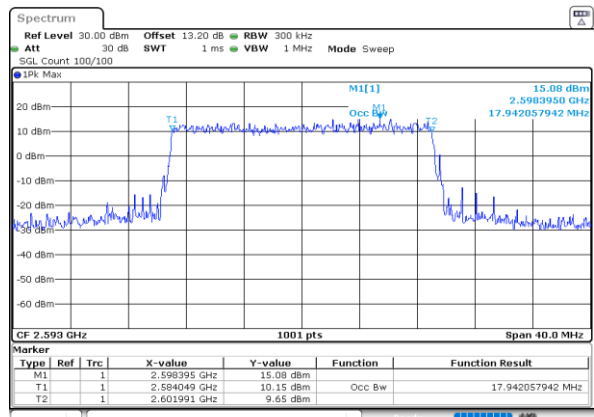
Date: 27.DEC.2023 20:15:41

Middle Channel / 15MHz / 256QAM



Date: 27.DEC.2023 21:21:16

Middle Channel / 20MHz / 256QAM



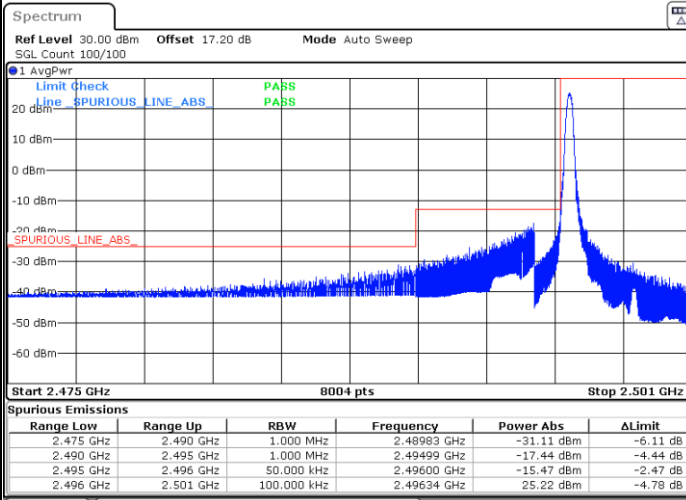
Date: 27.DEC.2023 21:18:25



Conducted Band Edge

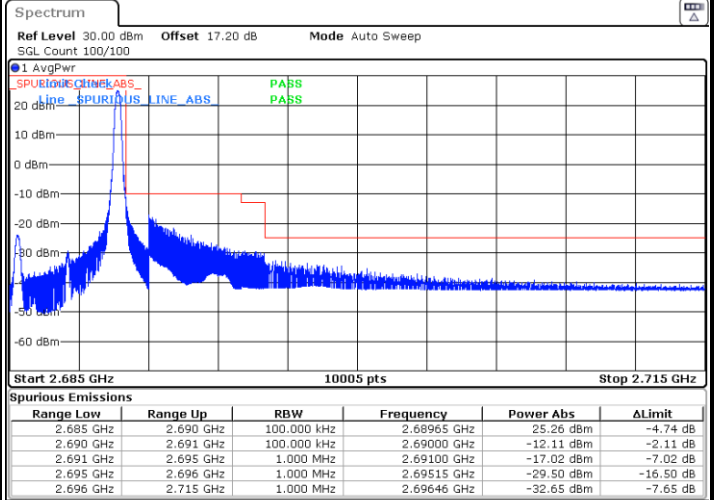
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



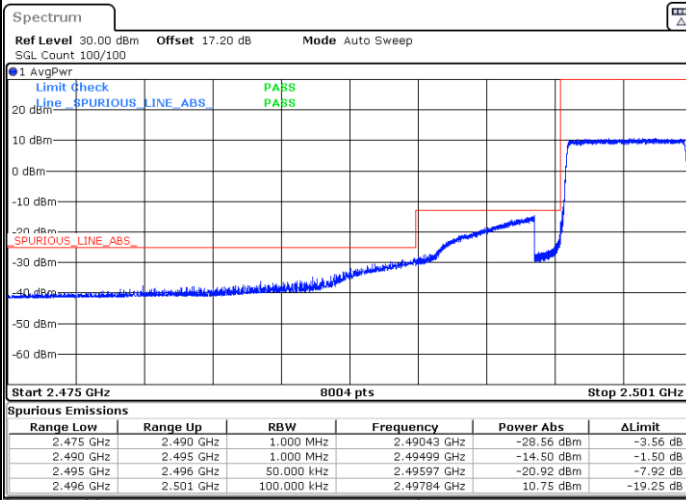
Date: 27.DEC.2023 20:28:49

Highest Band Edge / 1 RB



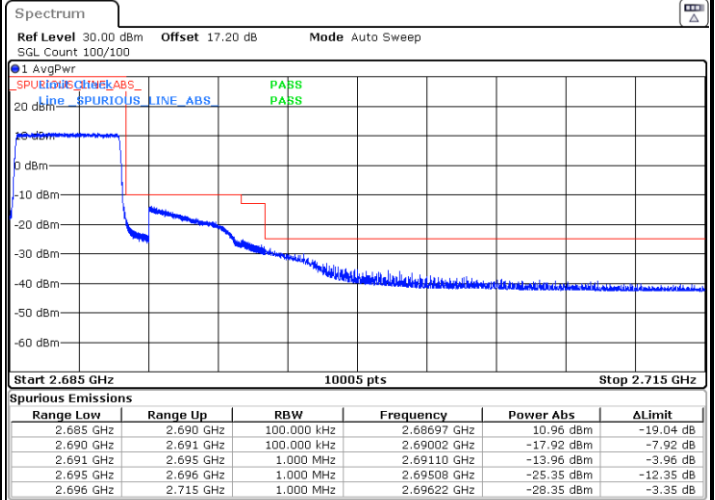
Date: 27.DEC.2023 20:47:45

Lowest Band Edge / Full RB



Date: 28.DEC.2023 04:50:31

Highest Band Edge / Full RB

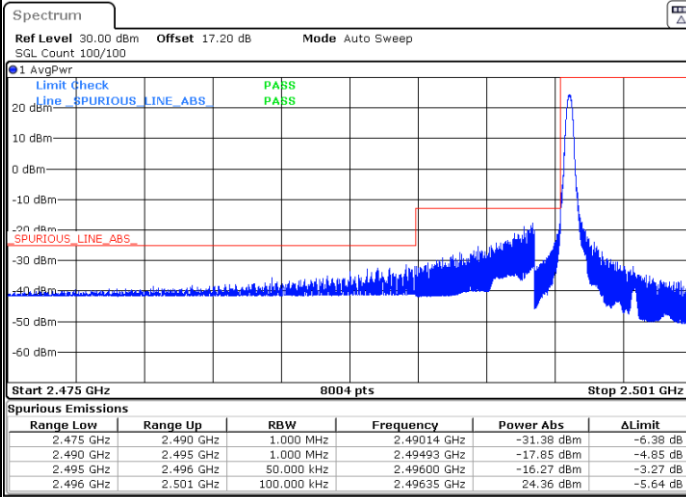


Date: 27.DEC.2023 20:43:18



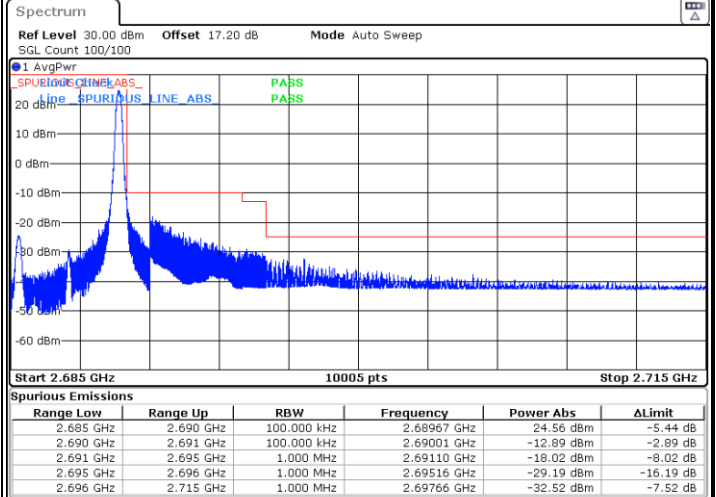
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



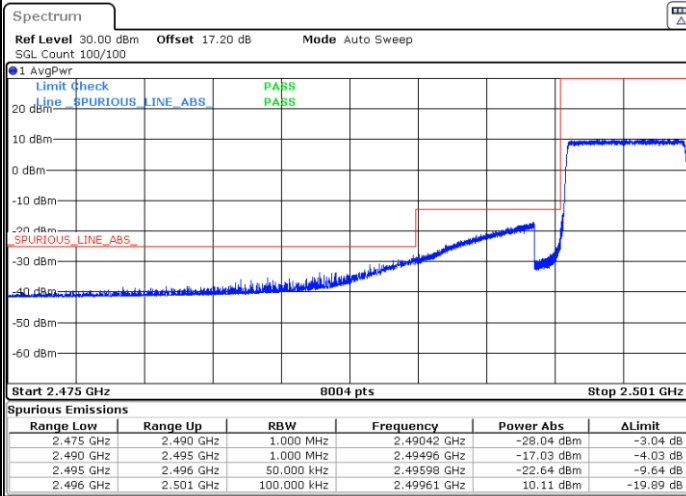
Date: 27.DEC.2023 20:29:42

Highest Band Edge / 1 RB



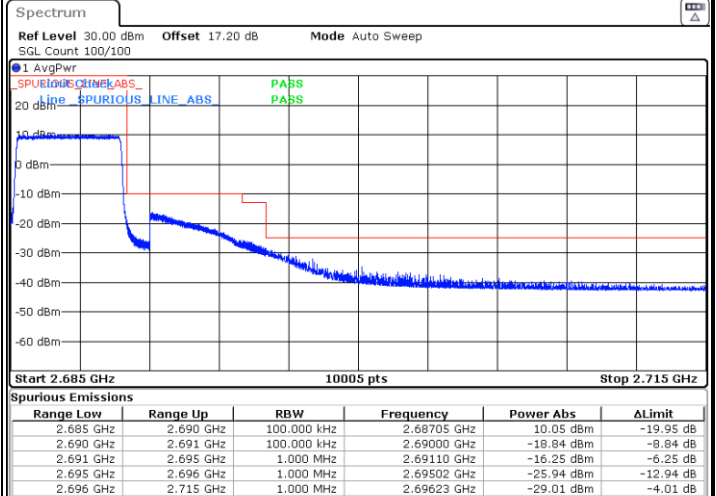
Date: 27.DEC.2023 20:48:50

Lowest Band Edge / Full RB



Date: 27.DEC.2023 20:34:25

Highest Band Edge / Full RB

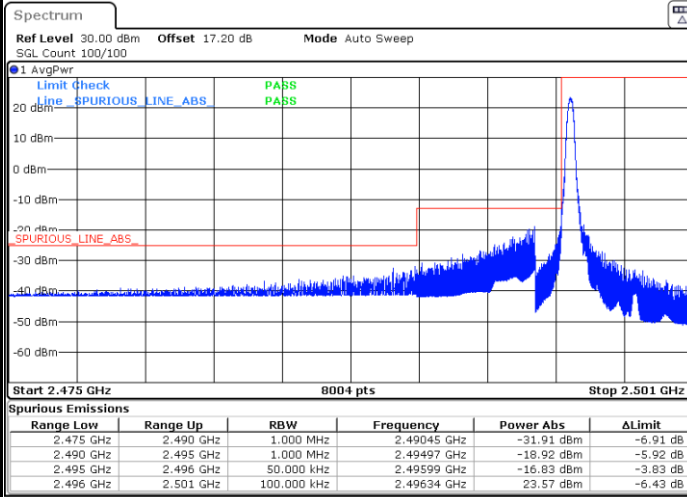


Date: 27.DEC.2023 20:44:23



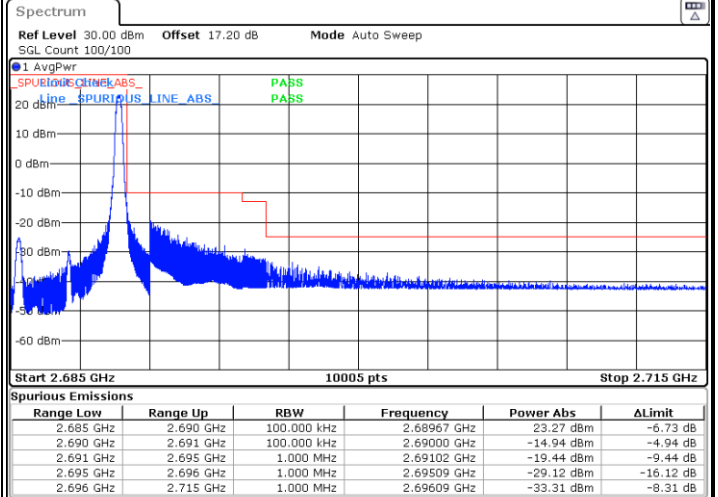
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



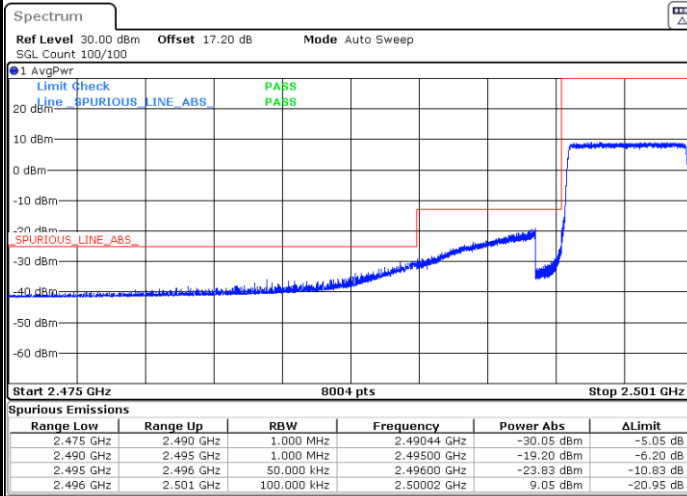
Date: 27.DEC.2023 20:30:34

Highest Band Edge / 1 RB



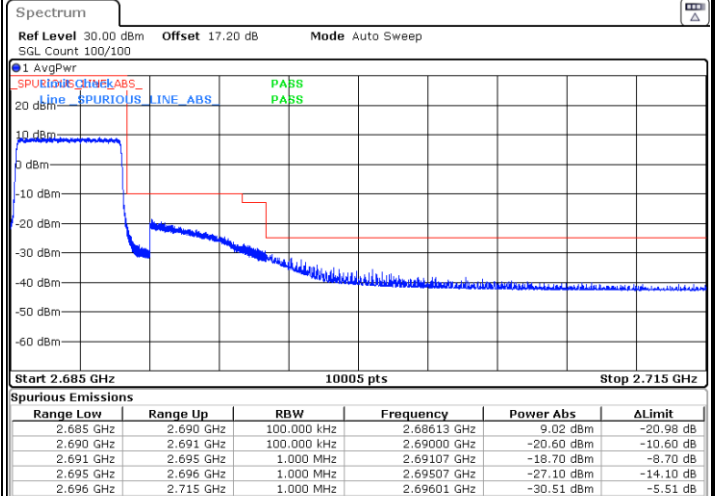
Date: 27.DEC.2023 20:49:55

Lowest Band Edge / Full RB



Date: 27.DEC.2023 20:35:17

Highest Band Edge / Full RB

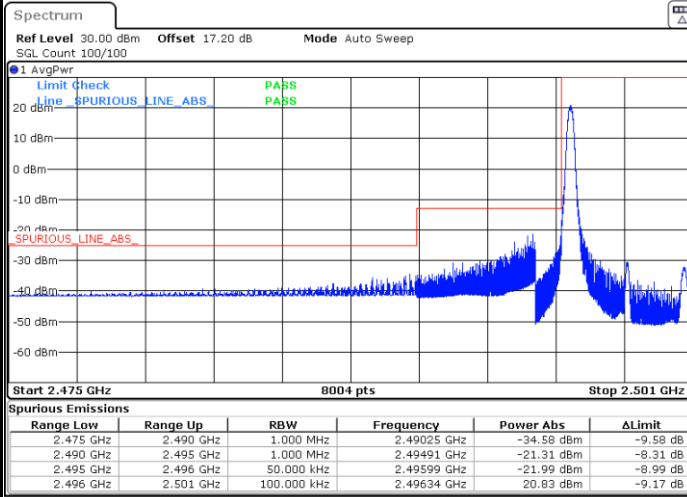


Date: 27.DEC.2023 20:45:28



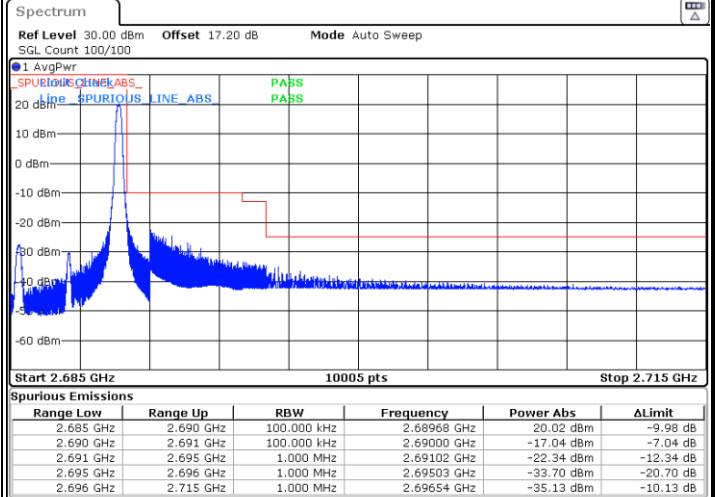
LTE Band 41 / 5MHz / 256QAM

Lowest Band Edge / 1RB



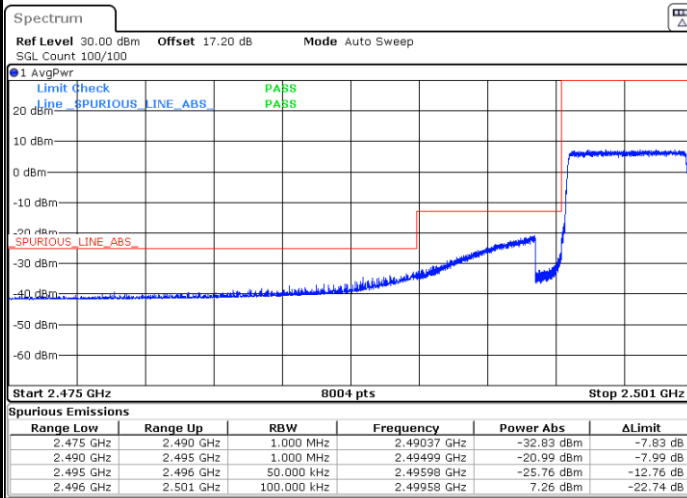
Date: 27.DEC.2023 20:31:26

Highest Band Edge / 1 RB



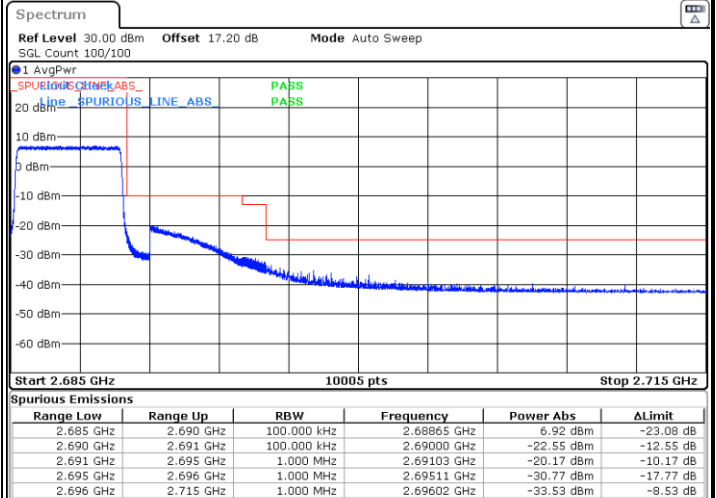
Date: 27.DEC.2023 20:51:00

Lowest Band Edge / Full RB



Date: 27.DEC.2023 20:36:09

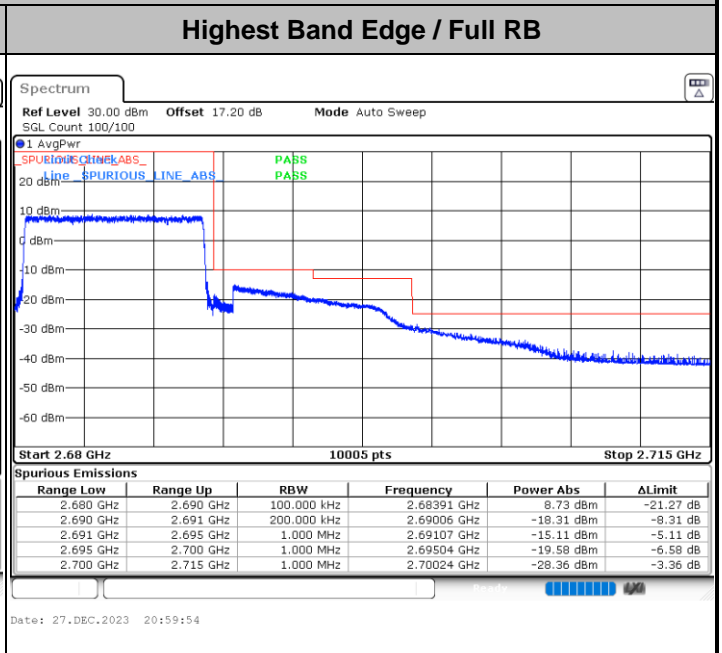
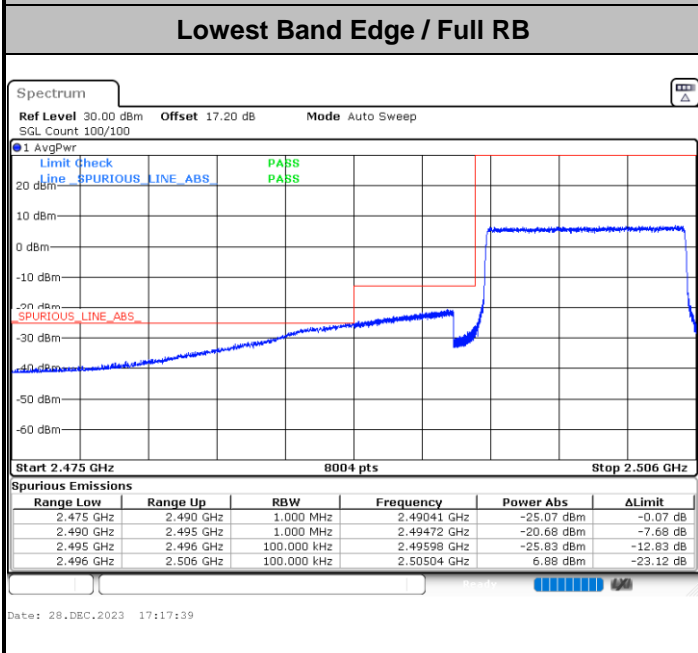
Highest Band Edge / Full RB



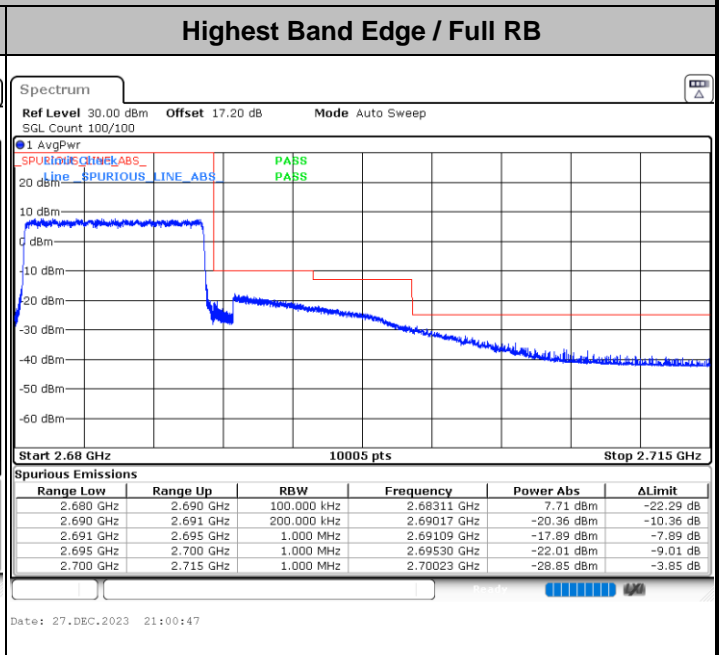
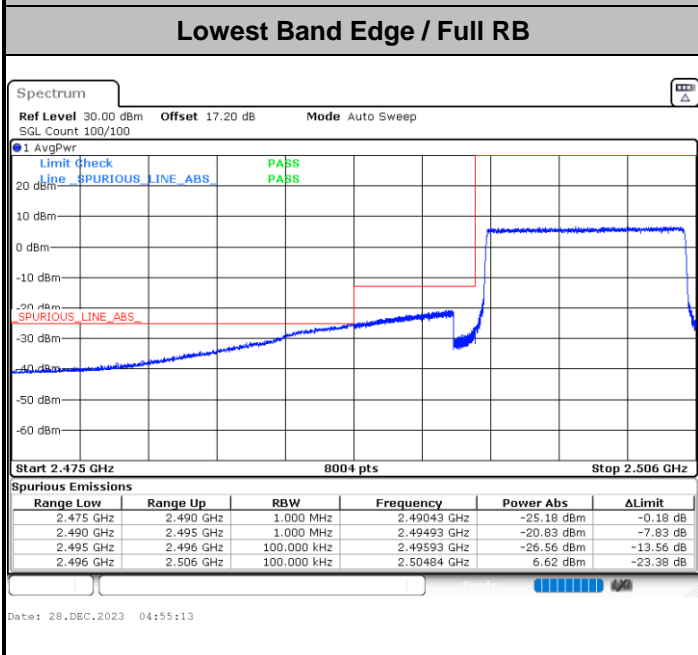
Date: 27.DEC.2023 20:46:33



LTE Band 41 / 10MHz / QPSK



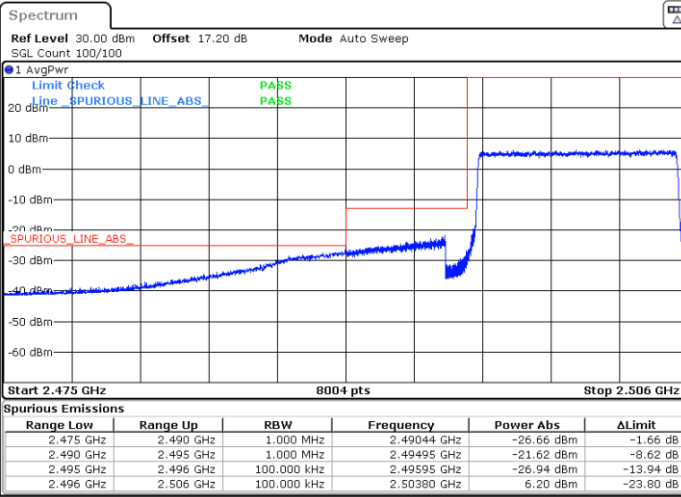
LTE Band 41 / 10MHz / 16QAM





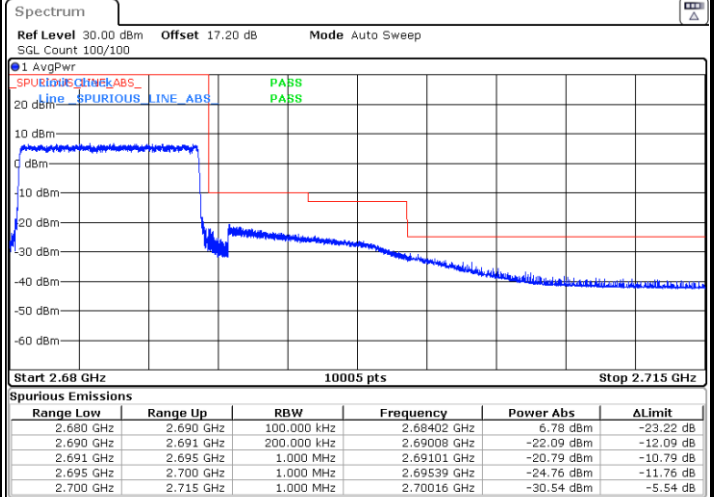
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / Full RB



Date: 27.DEC.2023 20:54:53

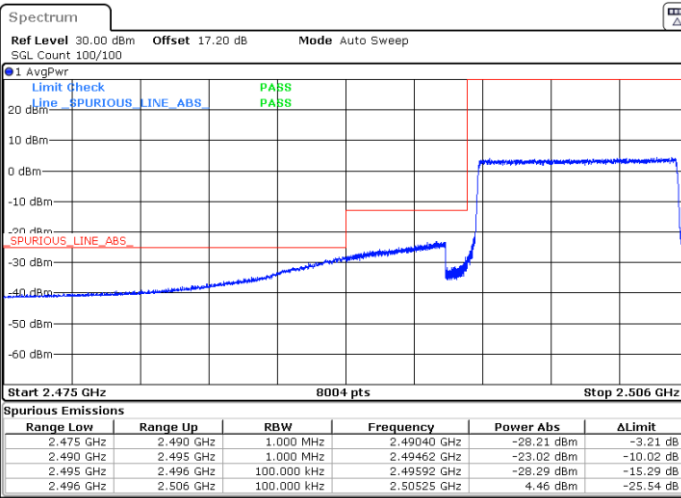
Highest Band Edge / Full RB



Date: 27.DEC.2023 21:01:39

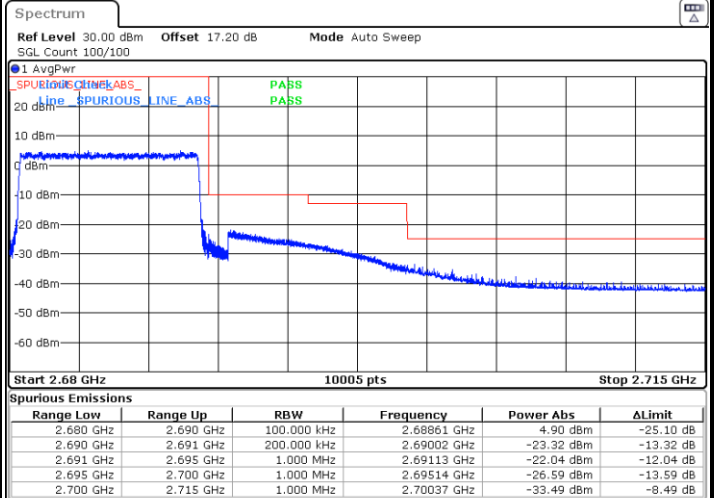
LTE Band 41 / 10MHz / 256QAM

Lowest Band Edge / Full RB



Date: 27.DEC.2023 20:55:45

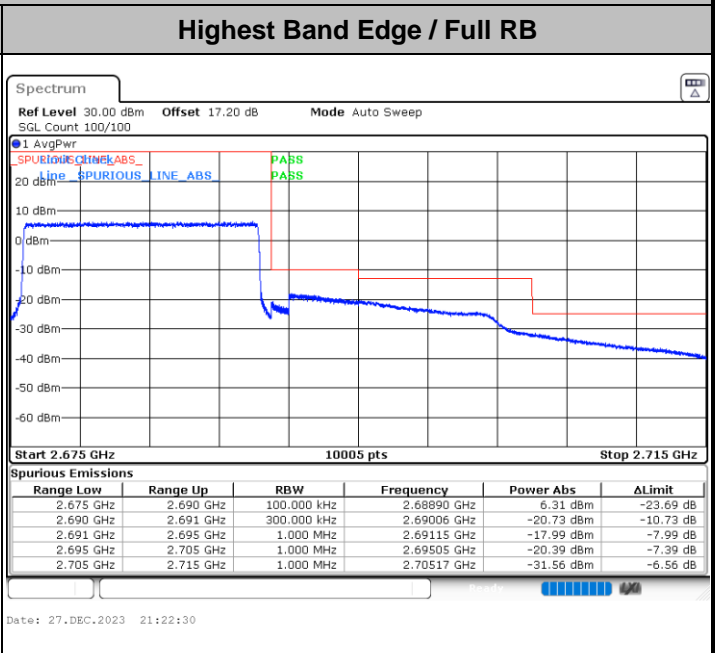
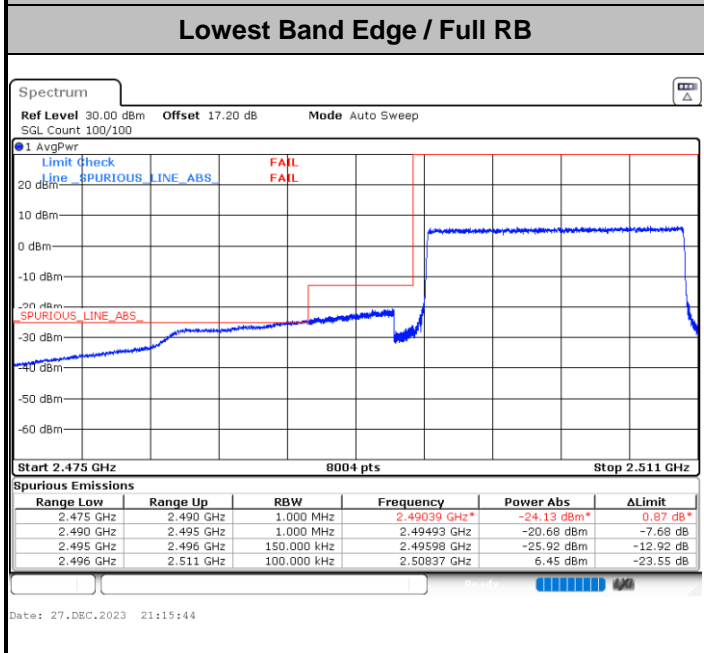
Highest Band Edge / Full RB



Date: 27.DEC.2023 21:02:31

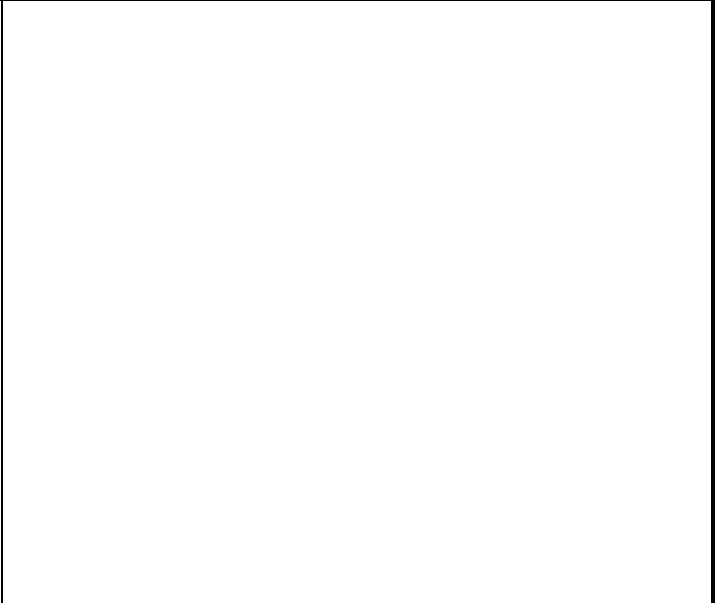
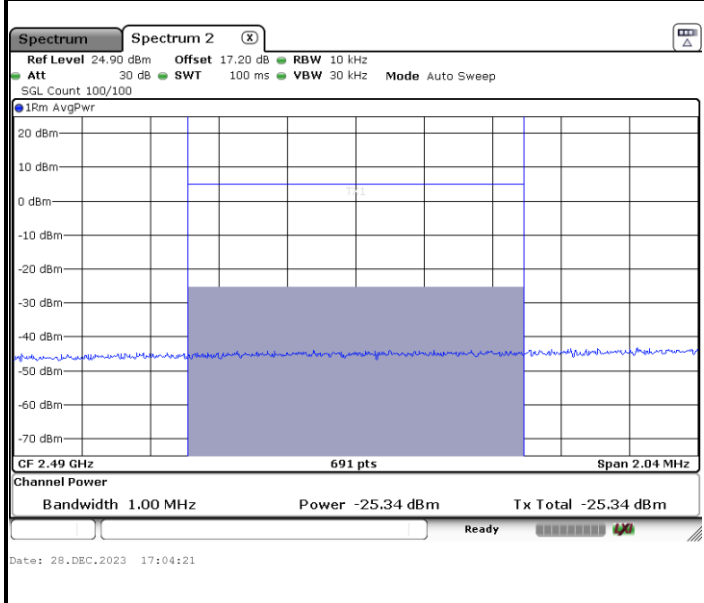


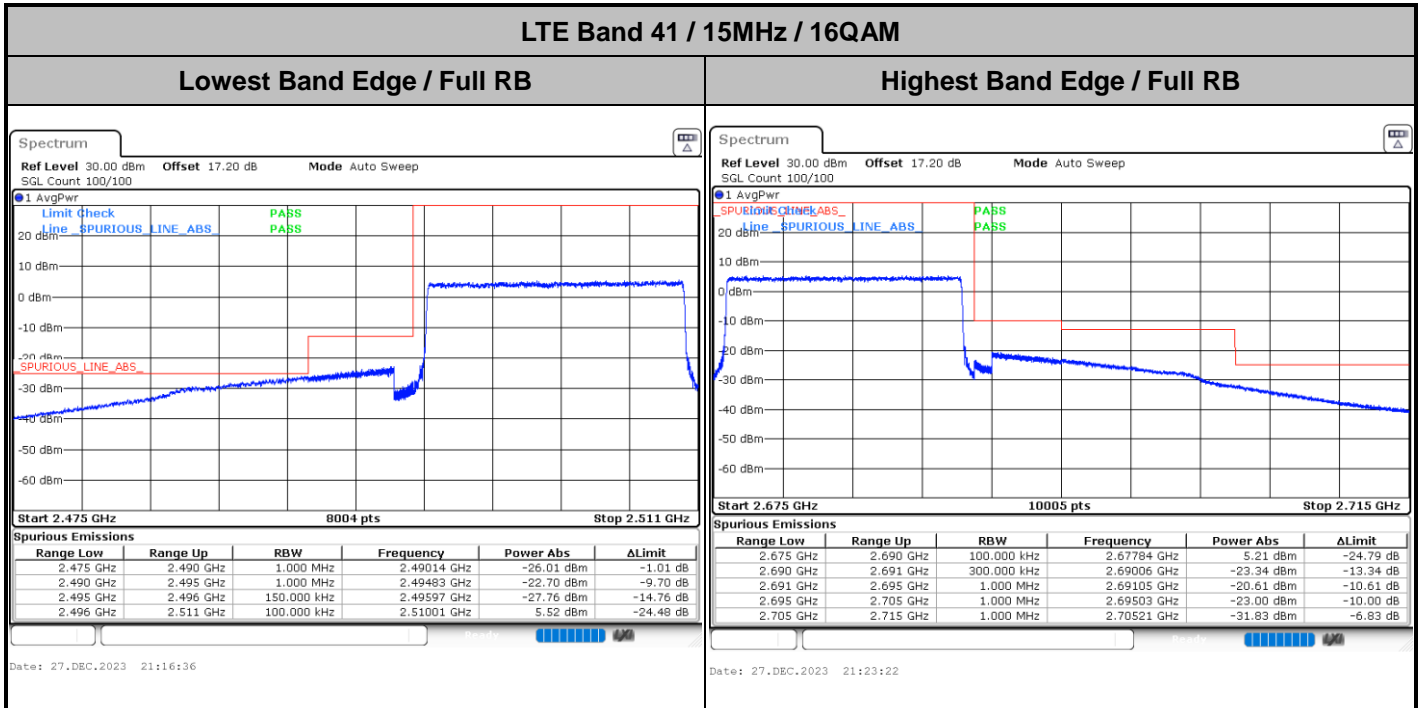
LTE Band 41 / 15MHz / QPSK



Channel Power verify
Power Limit -25dBm > -25.34 dBm Pass

N/A

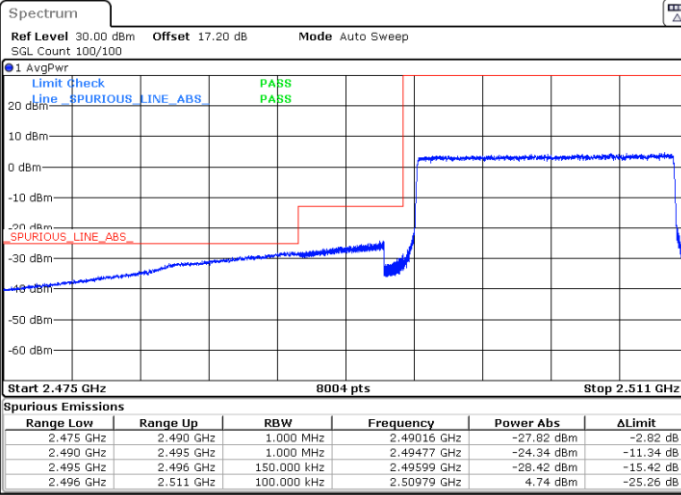






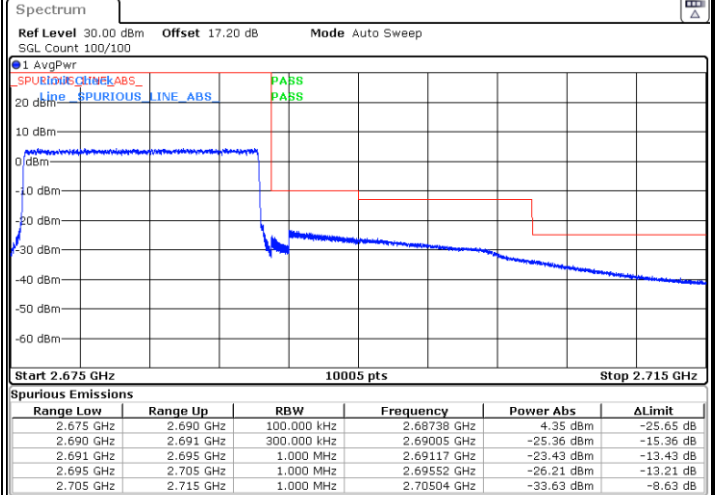
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / Full RB



Date: 27.DEC.2023 21:17:28

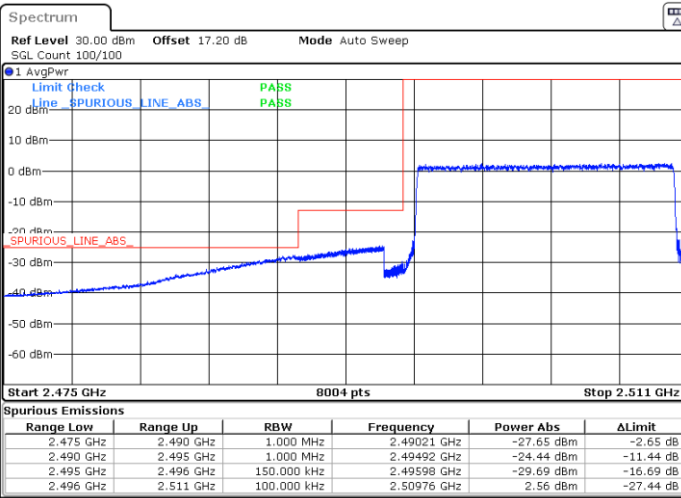
Highest Band Edge / Full RB



Date: 27.DEC.2023 21:24:14

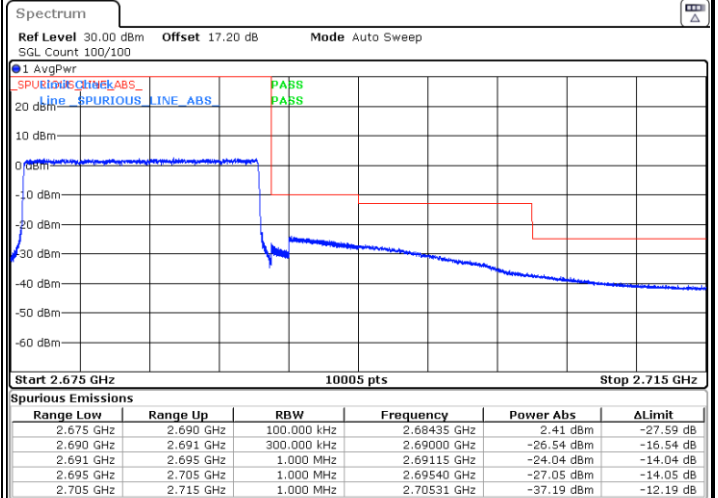
LTE Band 41 / 15MHz / 256QAM

Lowest Band Edge / Full RB



Date: 27.DEC.2023 21:18:20

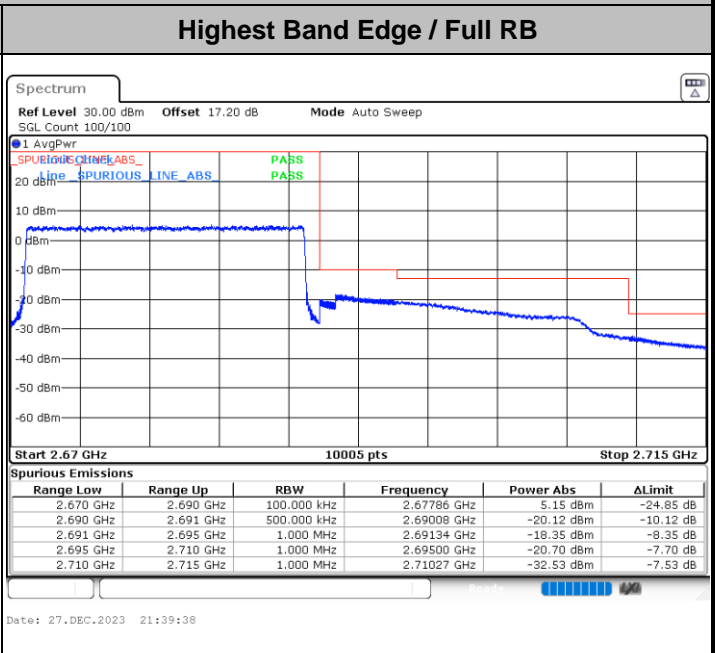
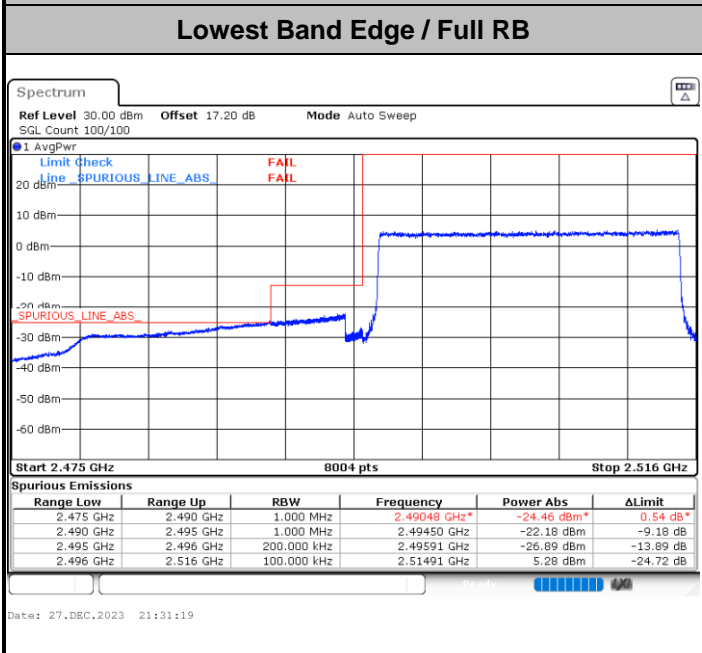
Highest Band Edge / Full RB



Date: 27.DEC.2023 21:25:06

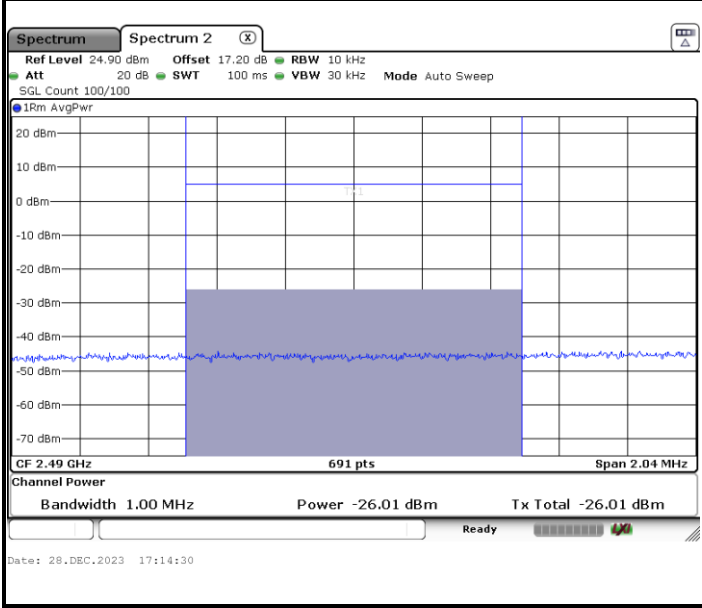


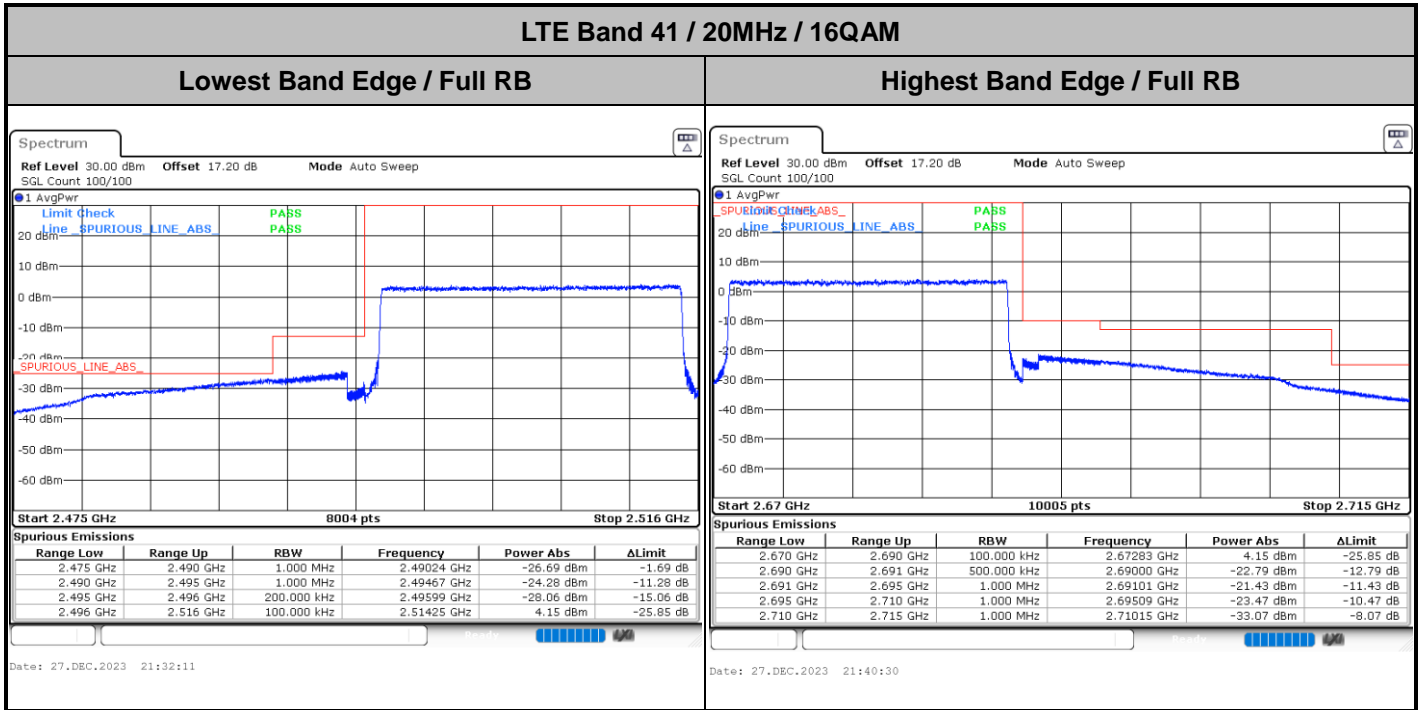
LTE Band 41 / 20MHz / QPSK



Channel Power verify
Power Limit -25dBm > -26.01 dBm Pass

N/A

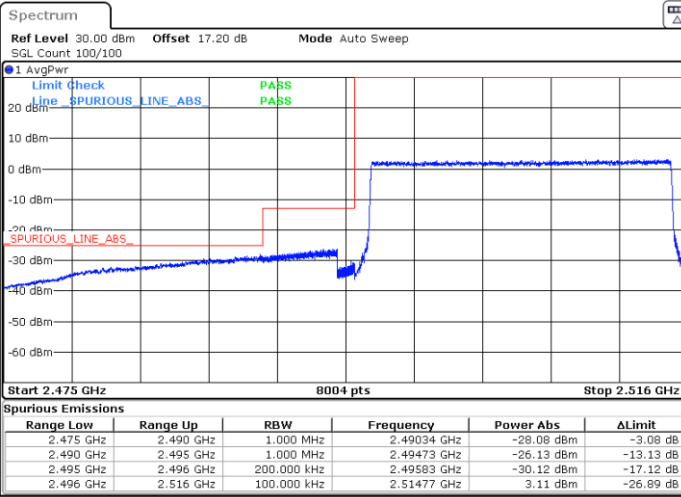






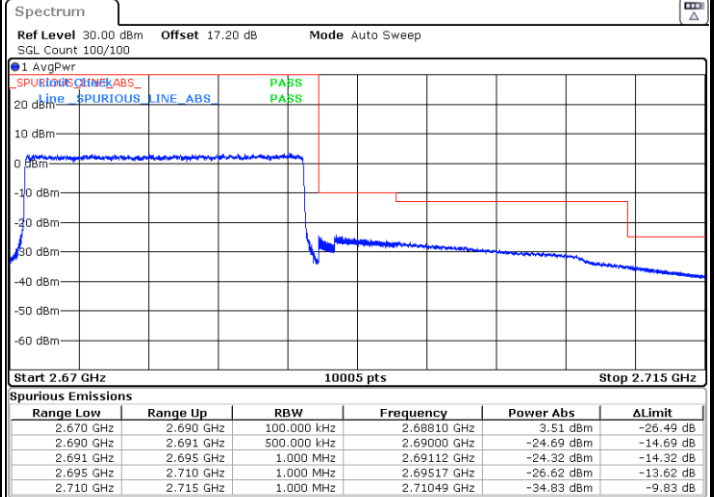
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / Full RB



Date: 27.DEC.2023 21:33:03

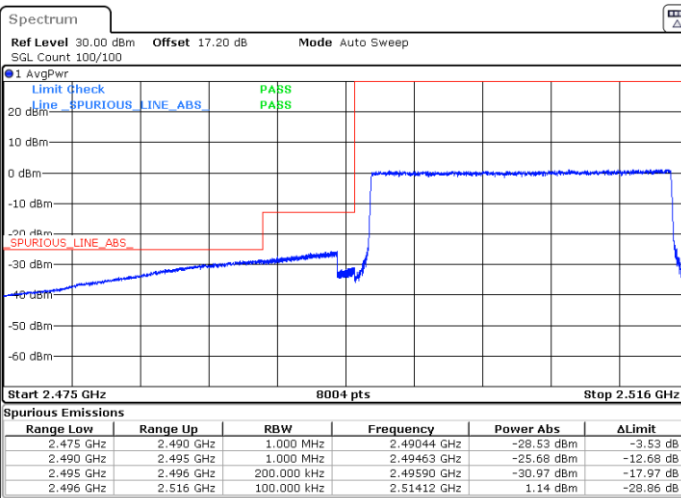
Highest Band Edge / Full RB



Date: 27.DEC.2023 21:41:23

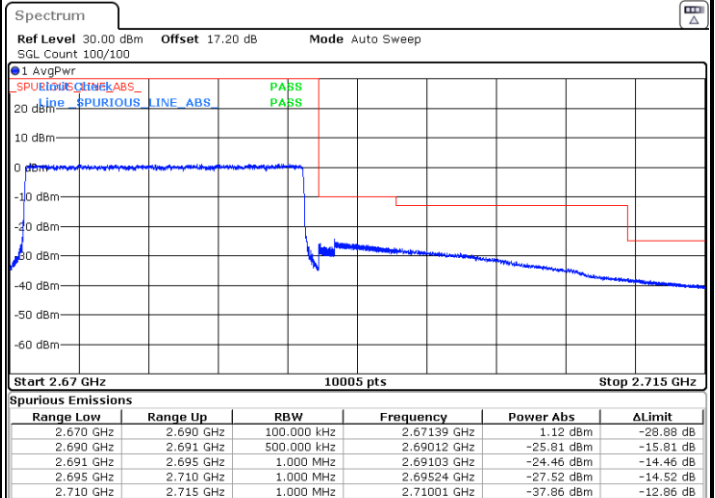
LTE Band 41 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Date: 27.DEC.2023 21:33:55

Highest Band Edge / Full RB



Date: 27.DEC.2023 21:42:15

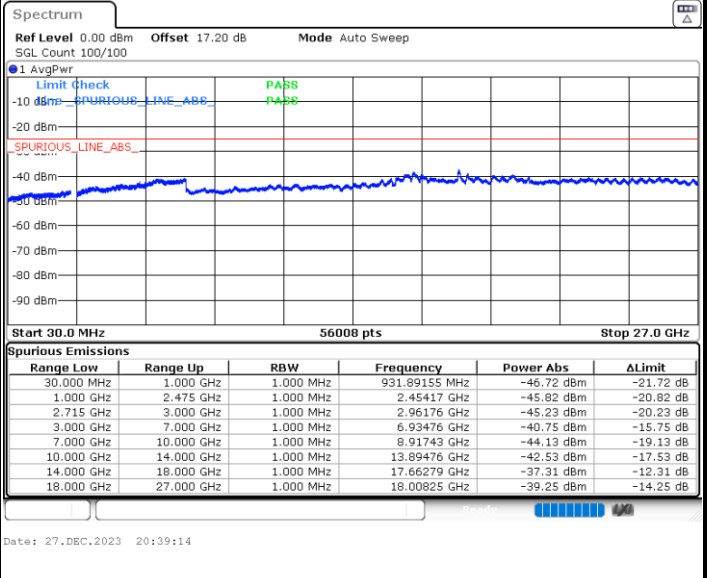
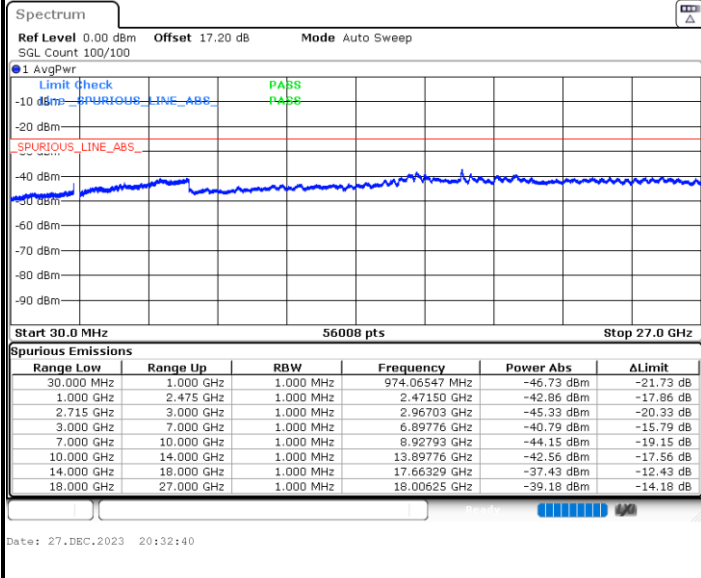


Conducted Spurious Emission

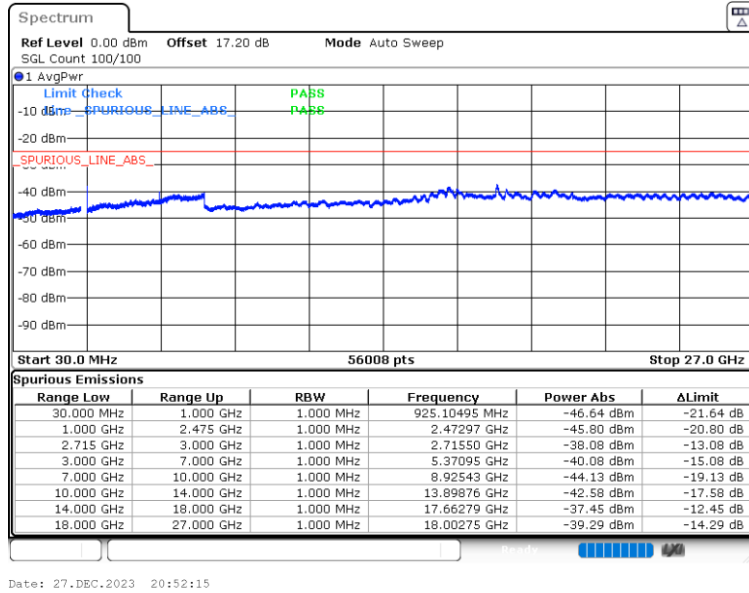
LTE Band 41 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

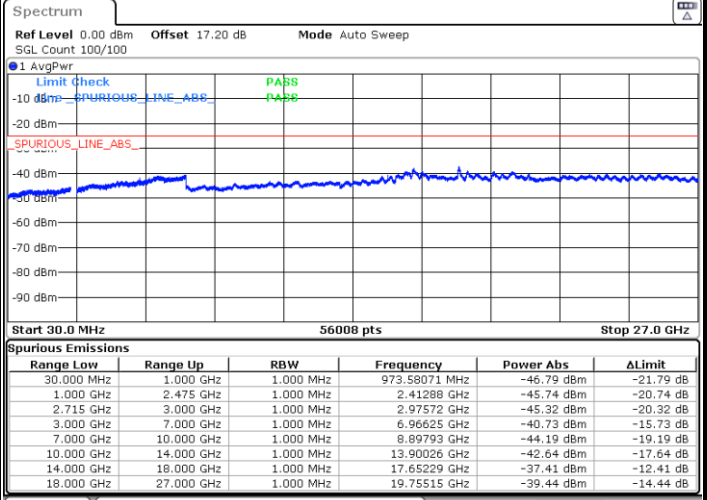
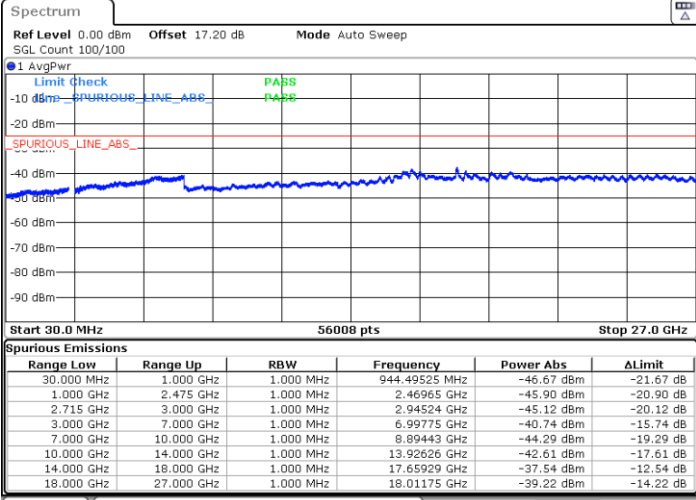




LTE Band 41 / 10MHz

Lowest Channel / QPSK

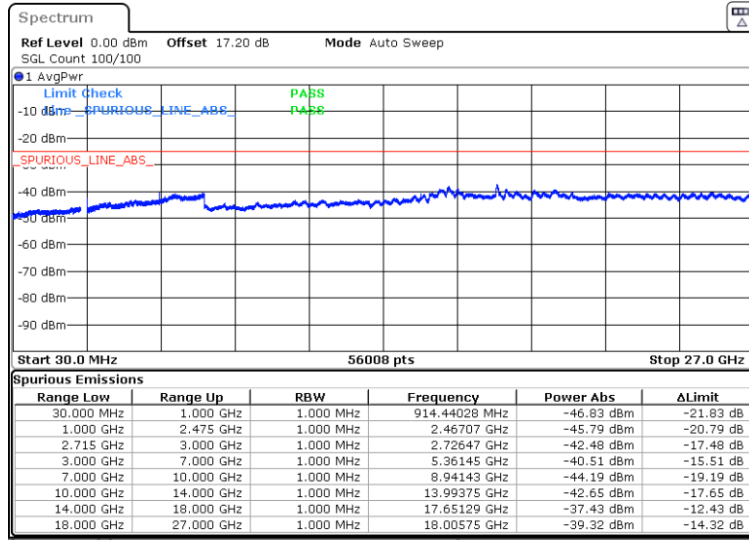
Middle Channel / QPSK



Date: 27.DEC.2023 21:49:49

Date: 27.DEC.2023 21:51:00

Highest Channel / QPSK



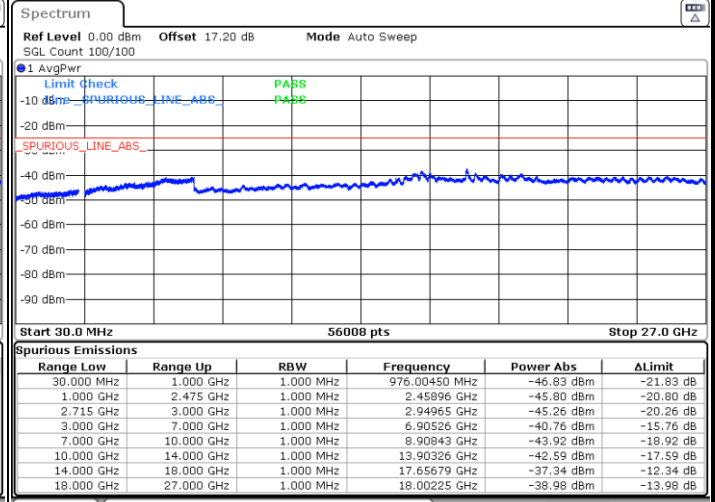
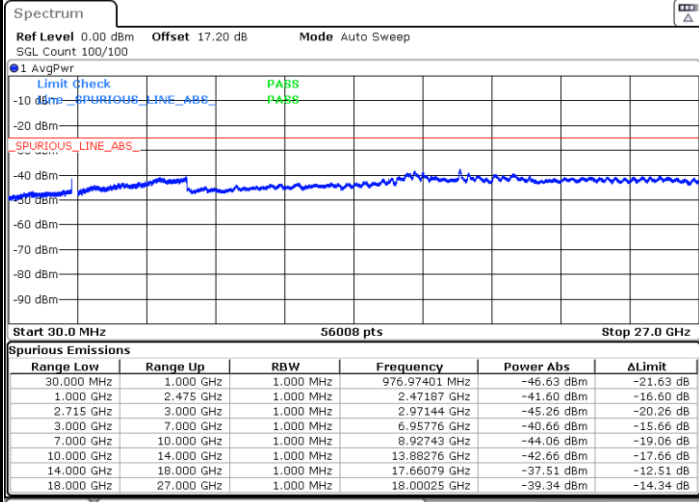
Date: 27.DEC.2023 21:52:11



LTE Band 41 / 15MHz

Lowest Channel / QPSK

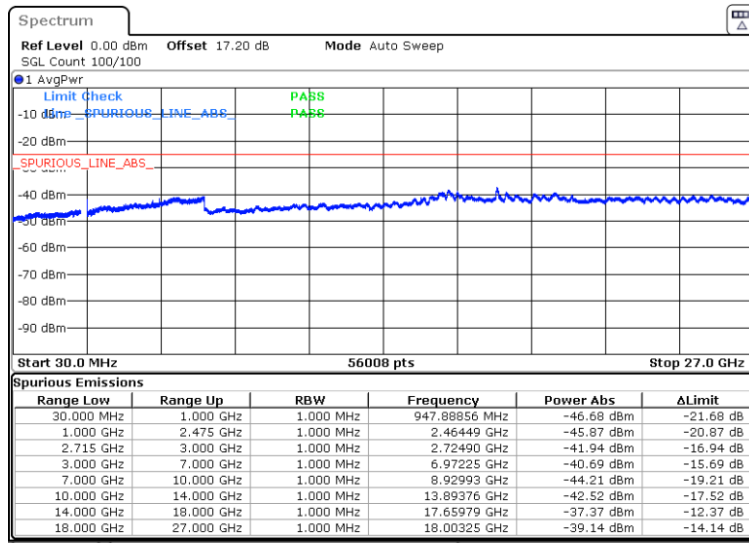
Middle Channel / QPSK



Date: 27.DEC.2023 21:53:25

Date: 27.DEC.2023 21:54:36

Highest Channel / QPSK



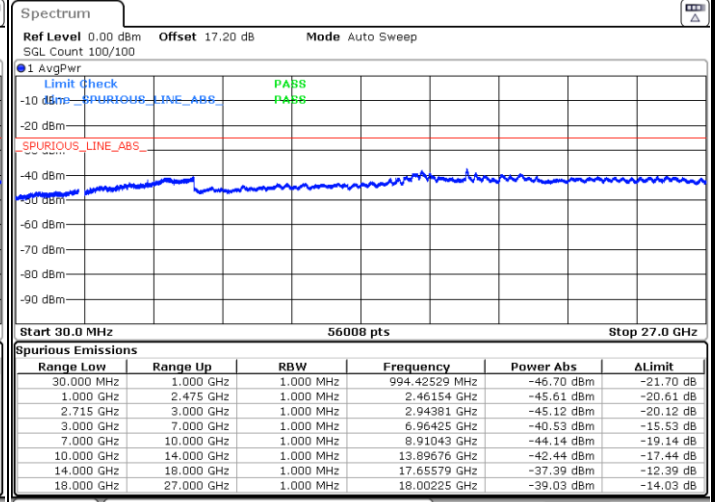
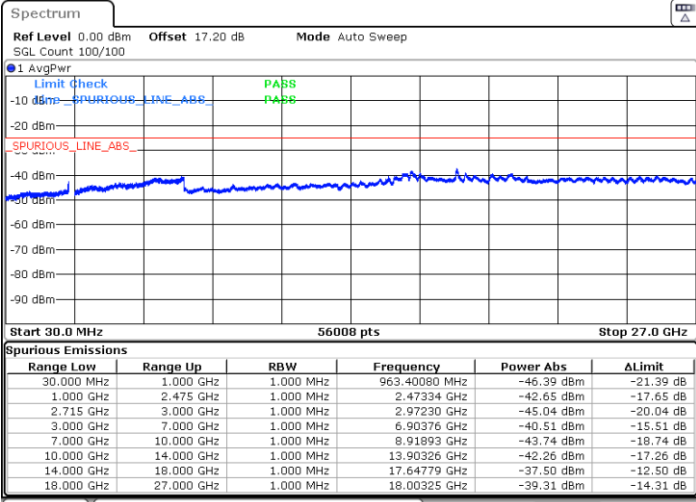
Date: 27.DEC.2023 21:55:47



LTE Band 41 / 20MHz

Lowest Channel / QPSK

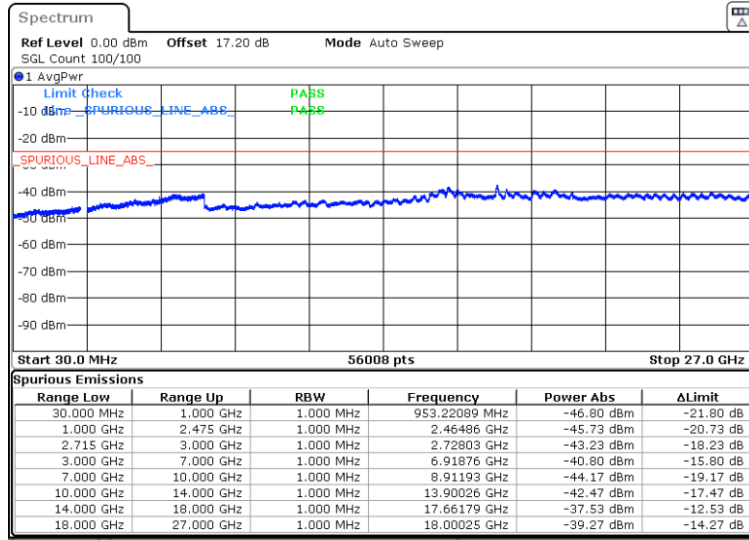
Middle Channel / QPSK



Date: 27.DEC.2023 21:57:00

Date: 27.DEC.2023 21:58:11

Highest Channel / QPSK



Date: 27.DEC.2023 21:59:23



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0039	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

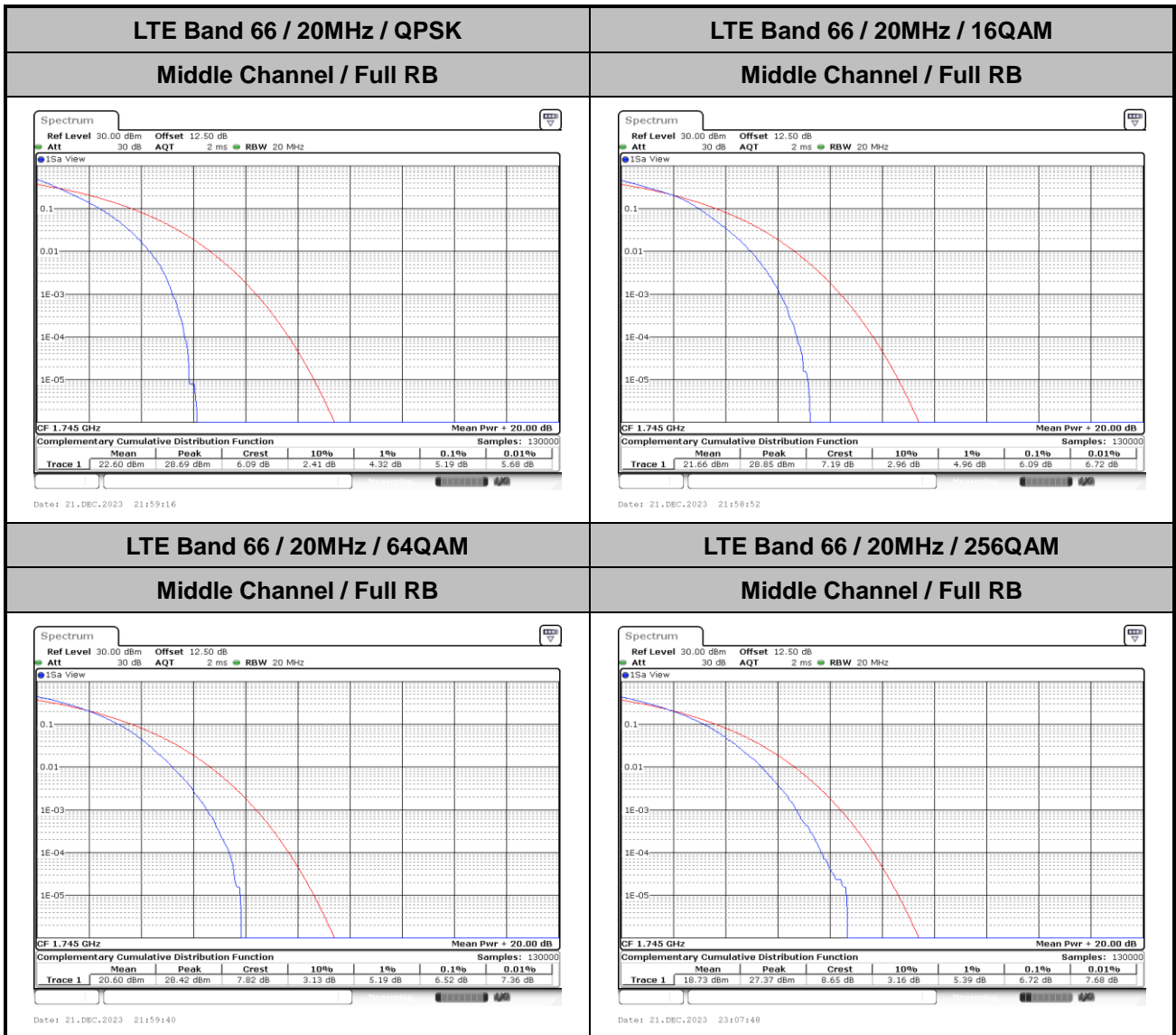
- 1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

Peak-to-Average Ratio

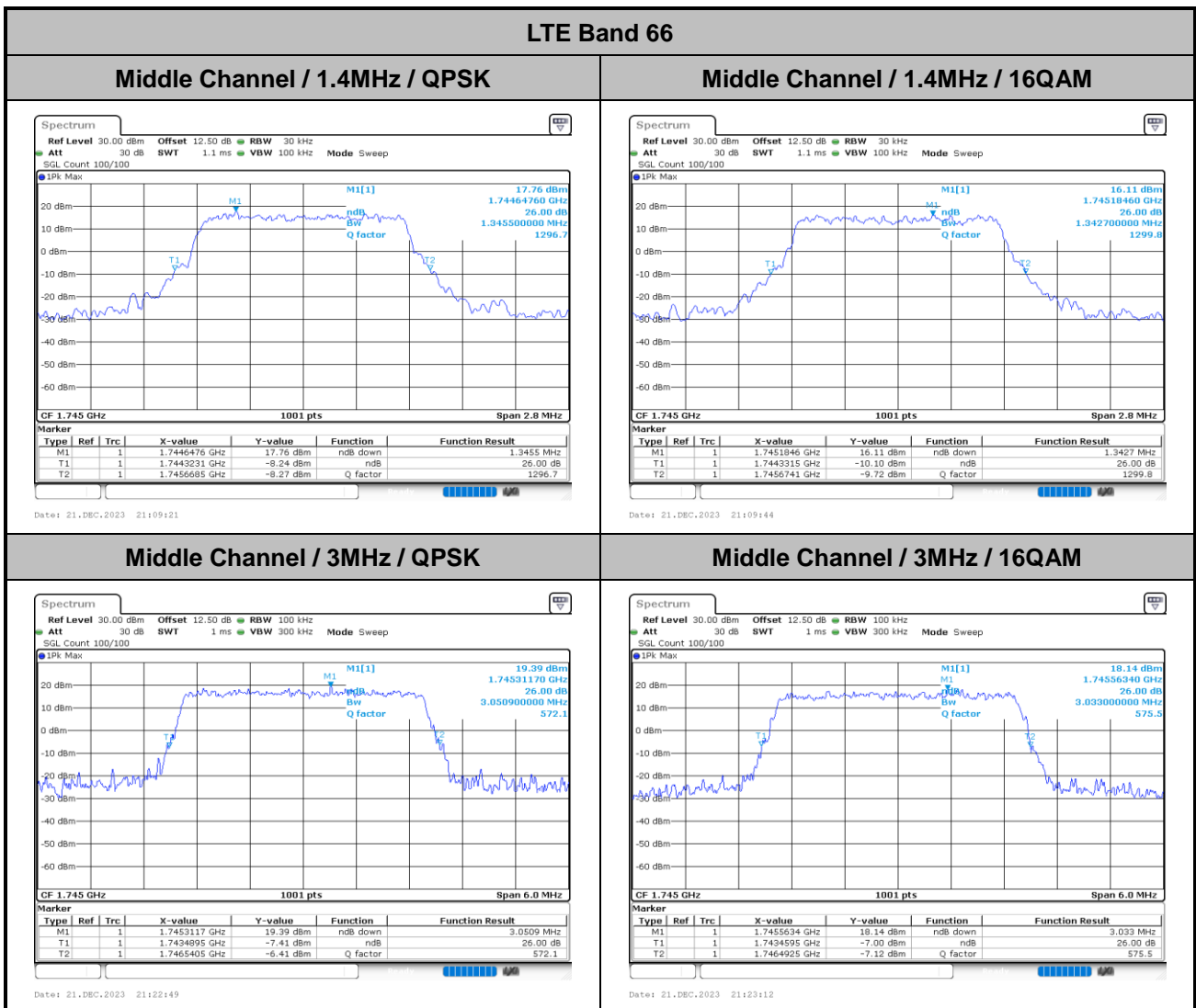
Mode	LTE Band 66 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.19	6.09	6.52	6.72	PASS





26dB Bandwidth

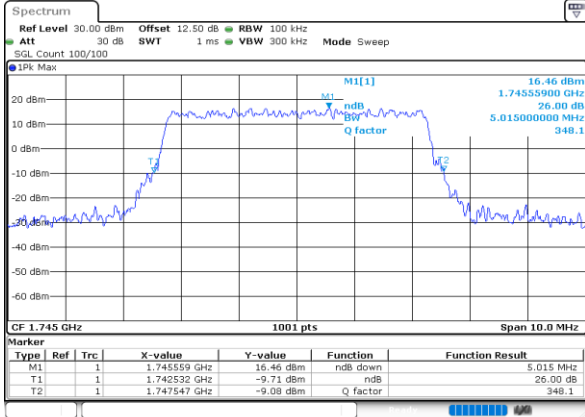
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.34	1.34	3.05	3.03	5.01	5.01	9.89	9.89	14.38	14.38	19.06	18.98
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.31	1.36	3.08	3.06	4.86	4.94	9.71	9.86	14.23	14.44	19.06	18.82





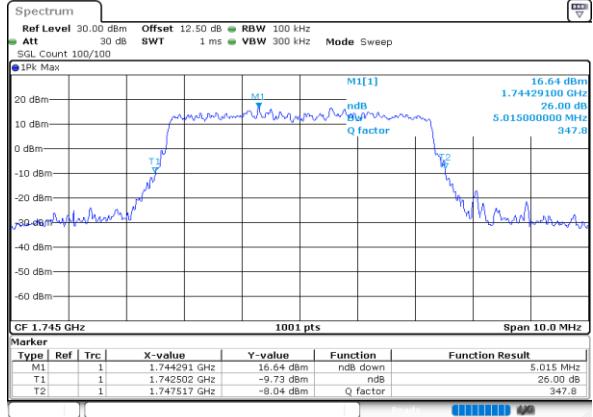
LTE Band 66

Middle Channel / 5MHz / QPSK



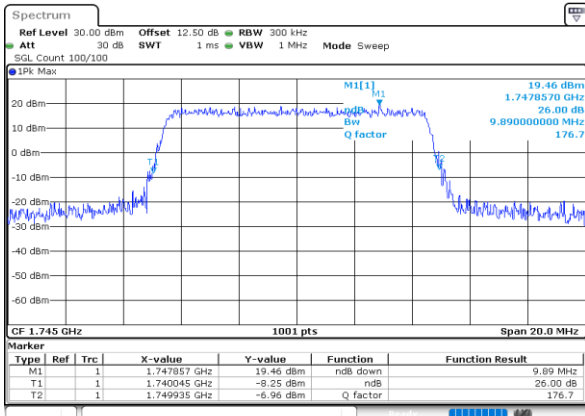
Date: 21.DEC.2023 21:32:53

Middle Channel / 5MHz / 16QAM



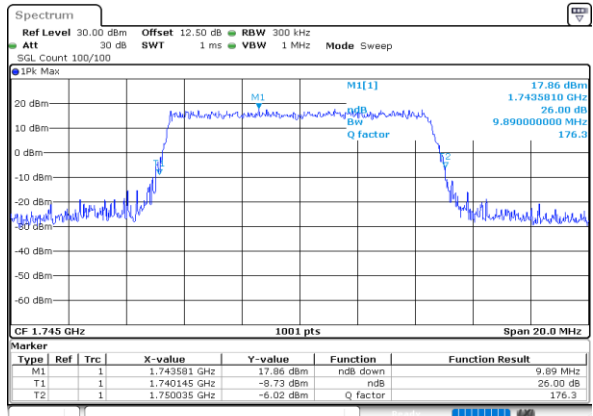
Date: 21.DEC.2023 21:33:16

Middle Channel / 10MHz / QPSK



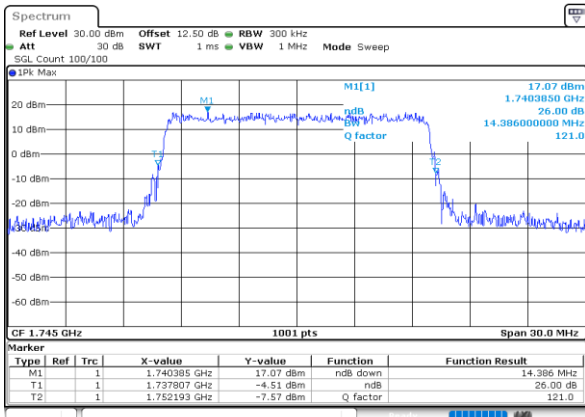
Date: 21.DEC.2023 21:38:19

Middle Channel / 10MHz / 16QAM



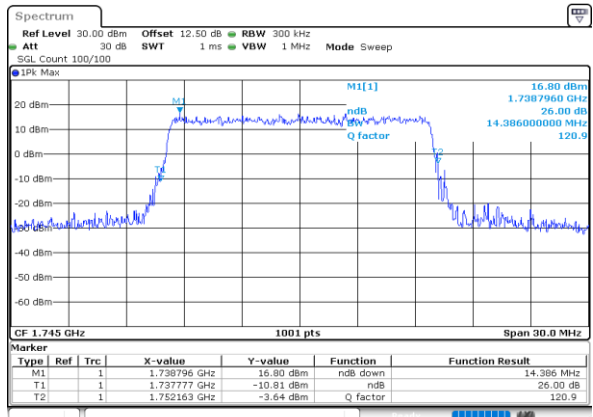
Date: 21.DEC.2023 21:38:42

Middle Channel / 15MHz / QPSK



Date: 21.DEC.2023 21:48:24

Middle Channel / 15MHz / 16QAM

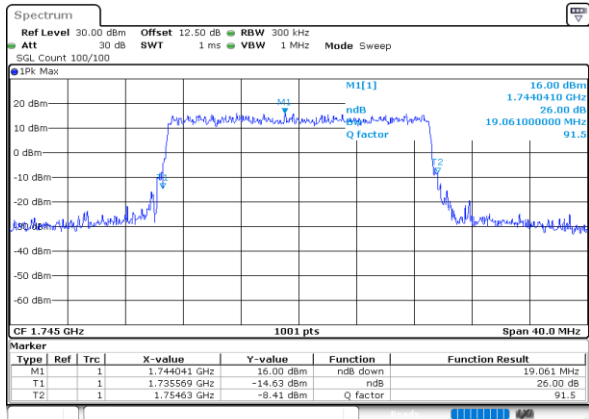


Date: 21.DEC.2023 21:48:47



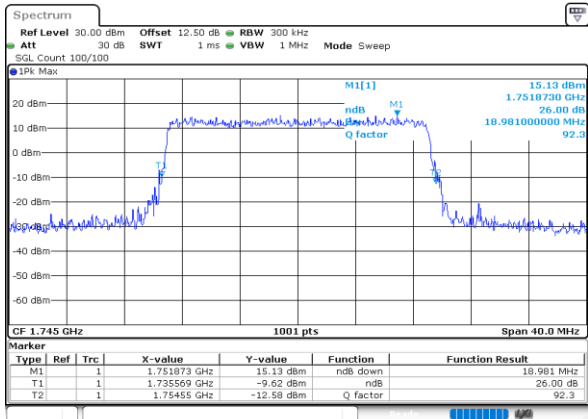
LTE Band 66

Middle Channel / 20MHz / QPSK



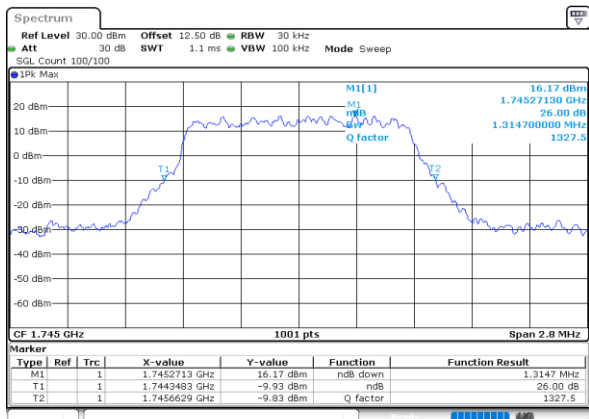
Date: 21.DEC.2023 21:53:49

Middle Channel / 20MHz / 16QAM



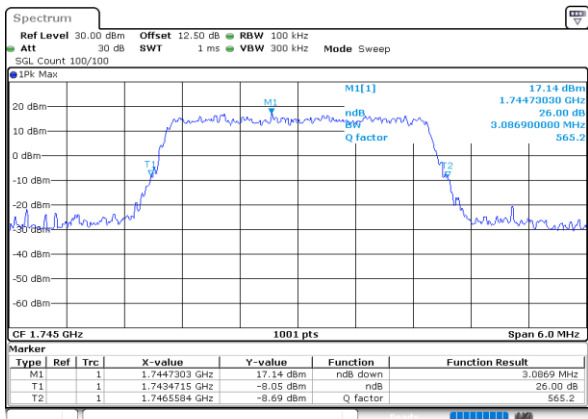
Date: 21.DEC.2023 21:54:13

Middle Channel / 1.4MHz / 64QAM



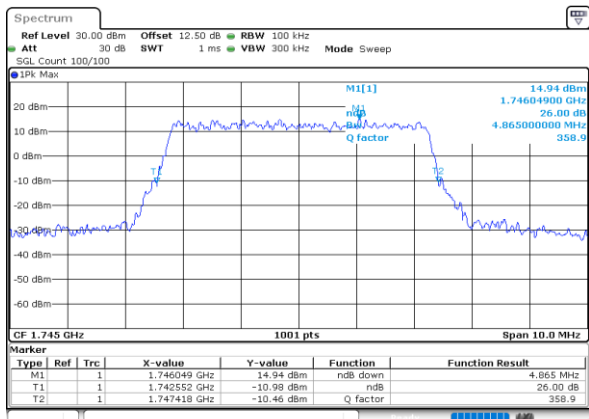
Date: 21.DEC.2023 21:18:09

Middle Channel / 3MHz / 64QAM



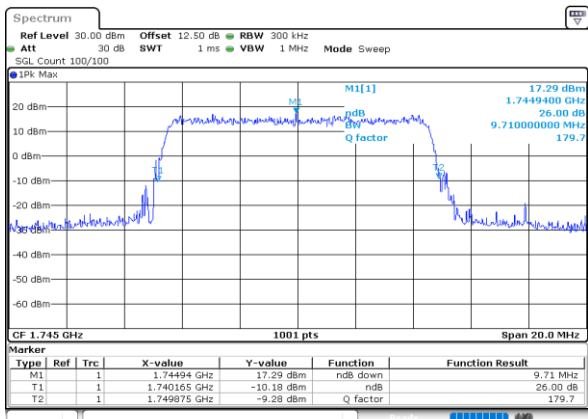
Date: 21.DEC.2023 21:26:36

Middle Channel / 5MHz / 64QAM



Date: 21.DEC.2023 21:29:07

Middle Channel / 10MHz / 64QAM

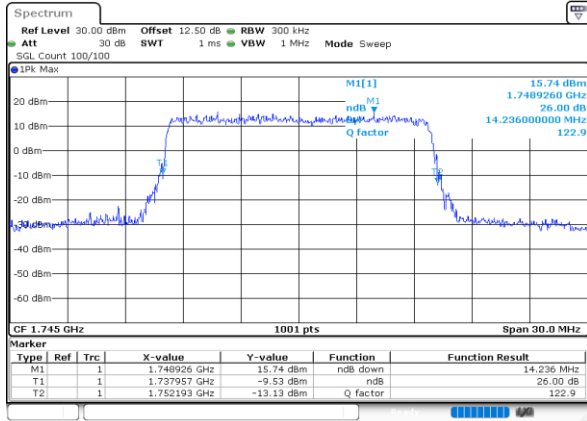


Date: 21.DEC.2023 21:42:05



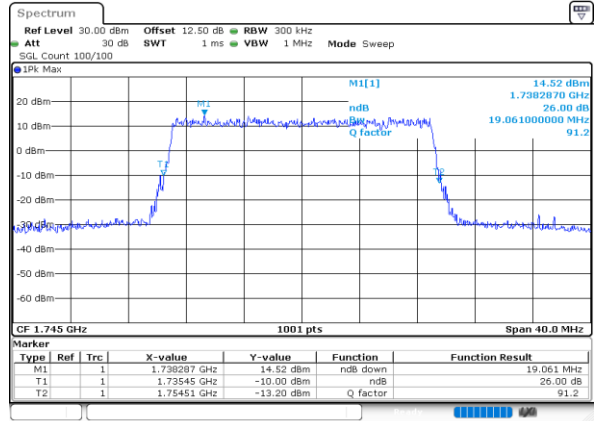
LTE Band 66

Middle Channel / 15MHz / 64QAM



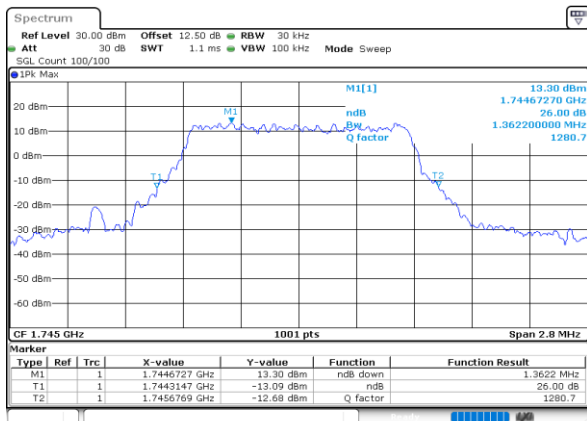
Date: 21.DEC.2023 21:44:37

Middle Channel / 20MHz / 64QAM



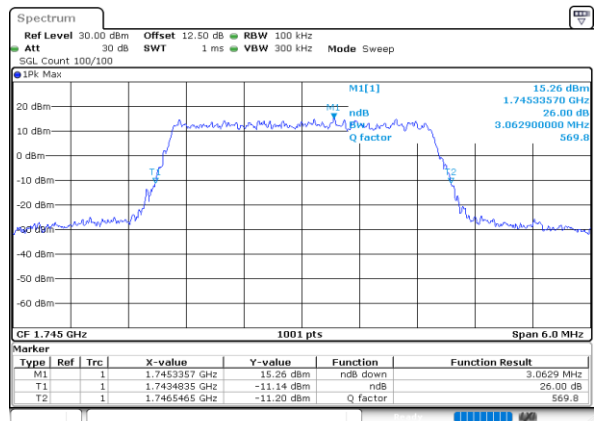
Date: 21.DEC.2023 21:57:35

Middle Channel / 1.4MHz / 256QAM



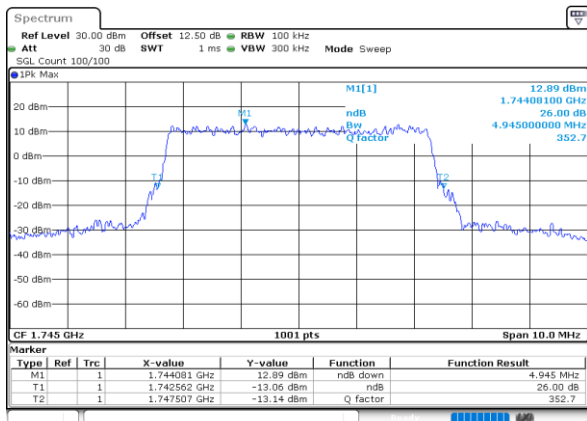
Date: 21.DEC.2023 22:02:21

Middle Channel / 3MHz / 256QAM



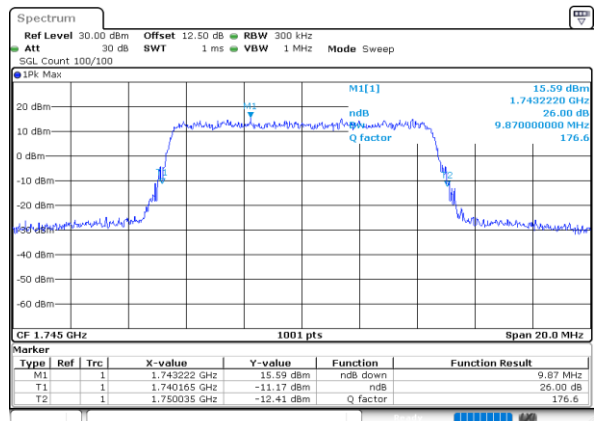
Date: 21.DEC.2023 22:09:37

Middle Channel / 5MHz / 256QAM



Date: 21.DEC.2023 22:27:16

Middle Channel / 10MHz / 256QAM

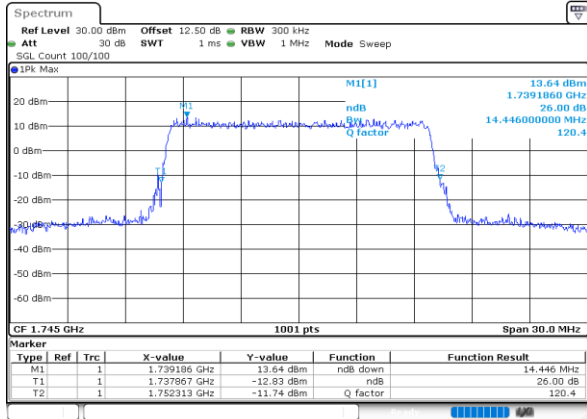


Date: 21.DEC.2023 22:44:55



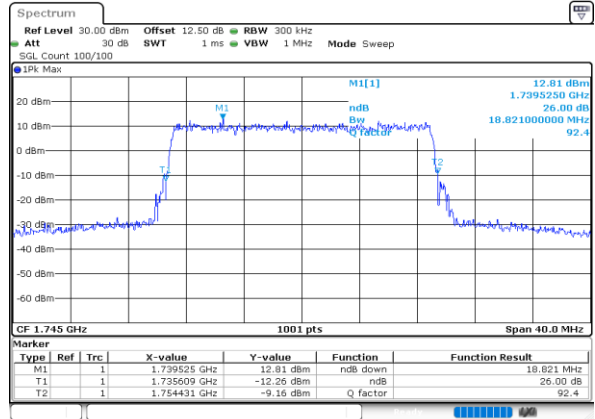
LTE Band 66

Middle Channel / 15MHz / 256QAM



Date: 21.DEC.2023 22:55:46

Middle Channel / 20MHz / 256QAM

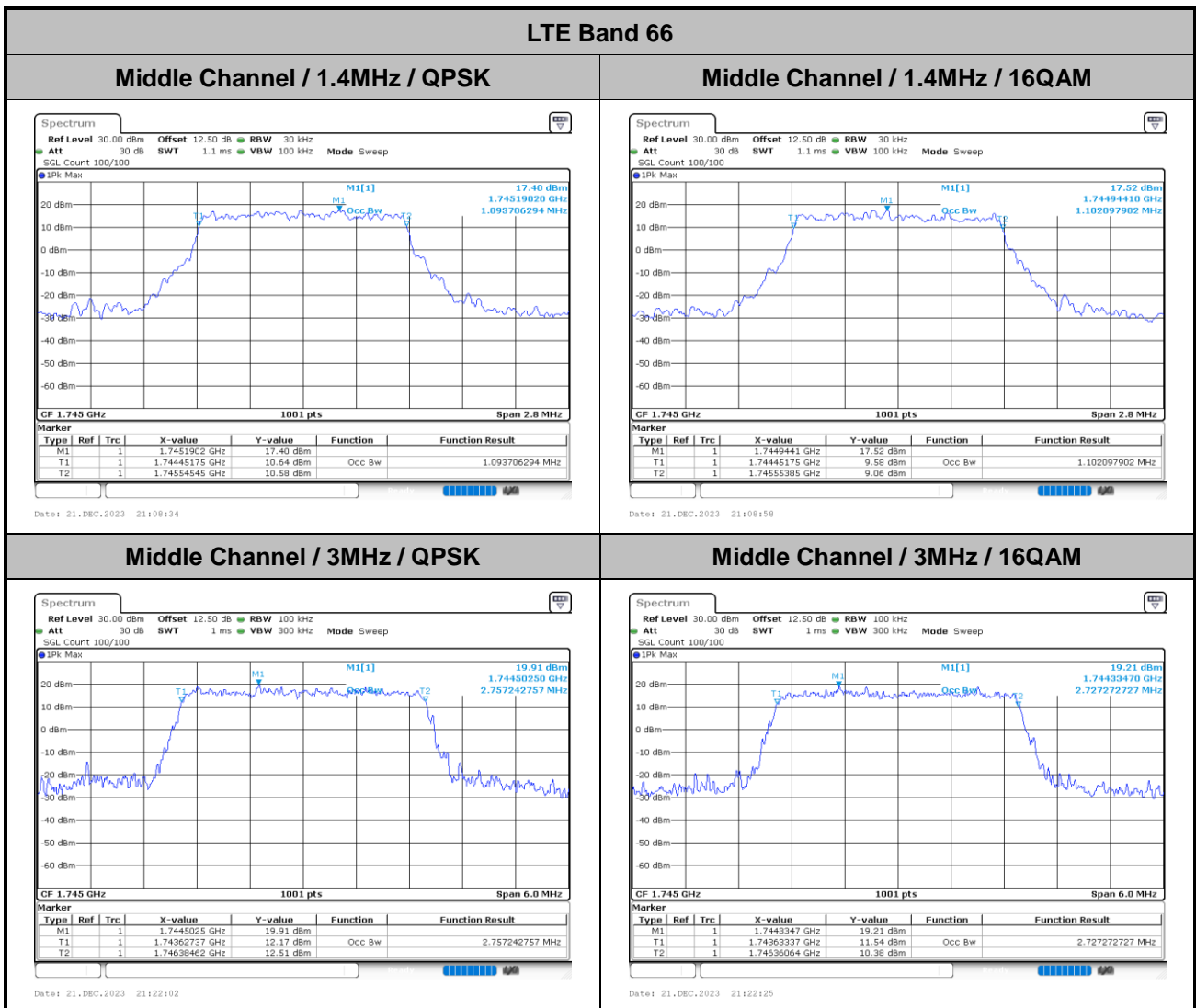


Date: 21.DEC.2023 23:06:26



Occupied Bandwidth

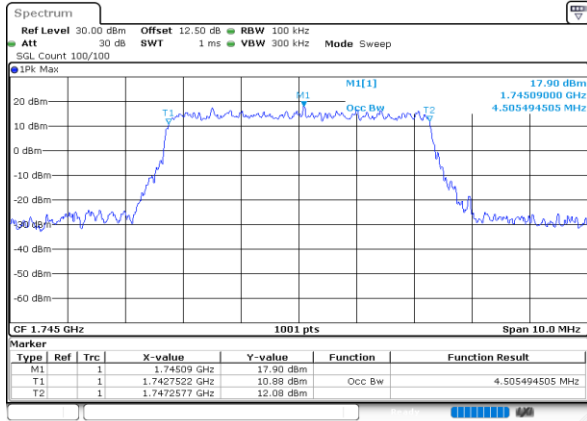
Mode		LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz	3MHz		5MHz		10MHz		15MHz		20MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Middle CH	1.09	1.10	2.75	2.72	4.50	4.49	9.07	9.11	13.51	13.48	17.90	17.94	
Mode		LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz	3MHz		5MHz		10MHz		15MHz		20MHz			
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Middle CH	1.09	1.08	2.72	2.73	4.50	4.50	9.05	9.05	13.48	13.42	17.86	17.90	





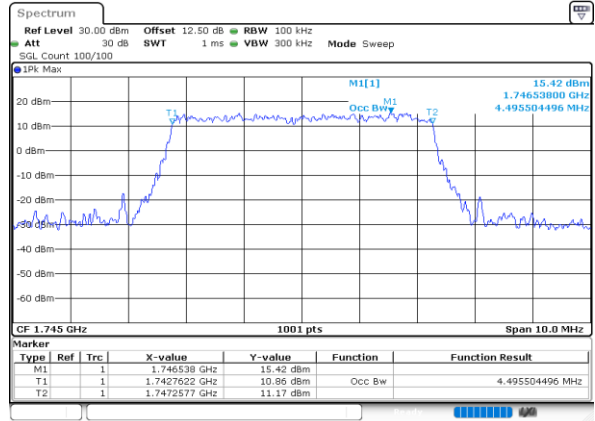
LTE Band 66

Middle Channel / 5MHz / QPSK



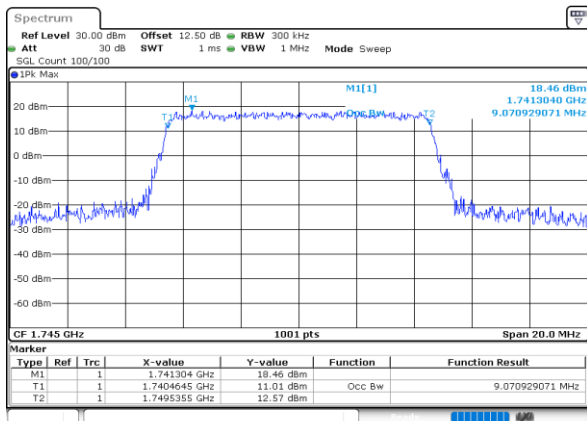
Date: 21.DEC.2023 21:32:07

Middle Channel / 5MHz / 16QAM



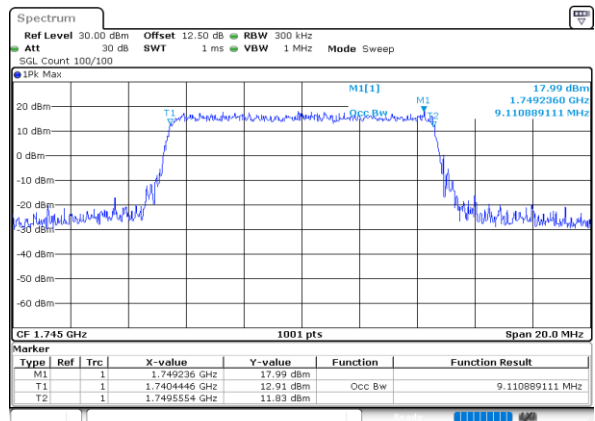
Date: 21.DEC.2023 21:32:10

Middle Channel / 10MHz / QPSK



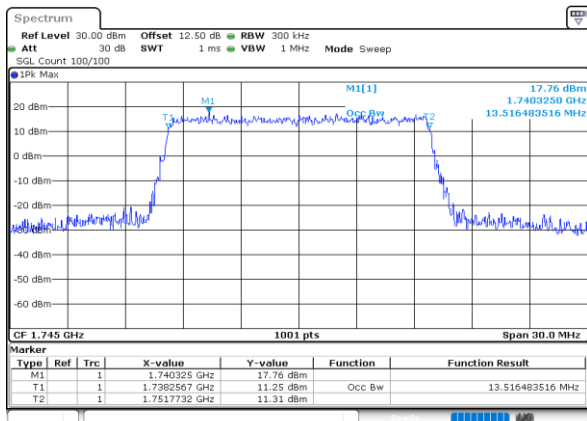
Date: 21.DEC.2023 21:37:32

Middle Channel / 10MHz / 16QAM



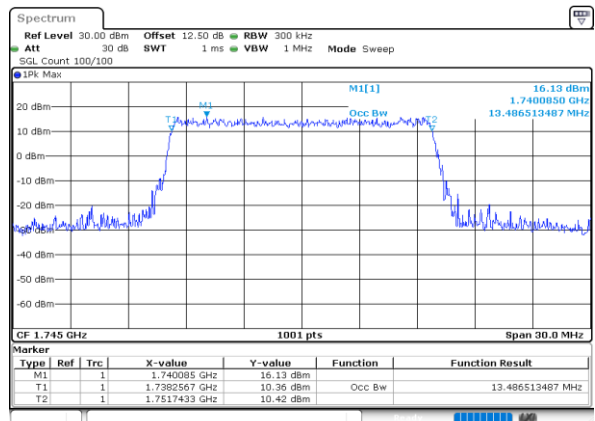
Date: 21.DEC.2023 21:37:56

Middle Channel / 15MHz / QPSK



Date: 21.DEC.2023 21:47:37

Middle Channel / 15MHz / 16QAM



Date: 21.DEC.2023 21:48:00