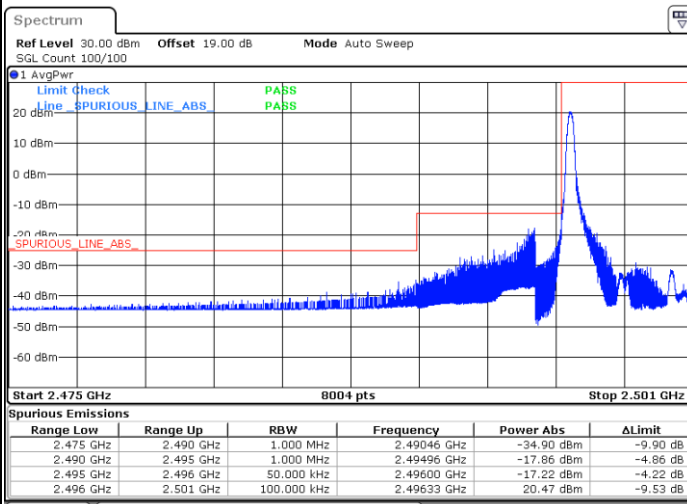




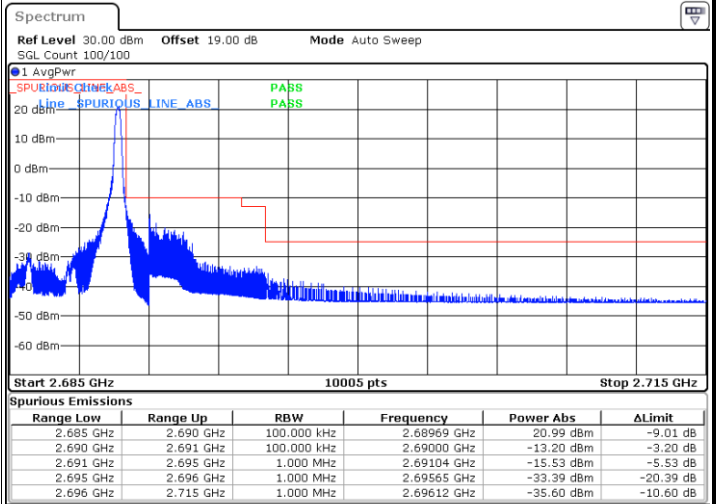
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



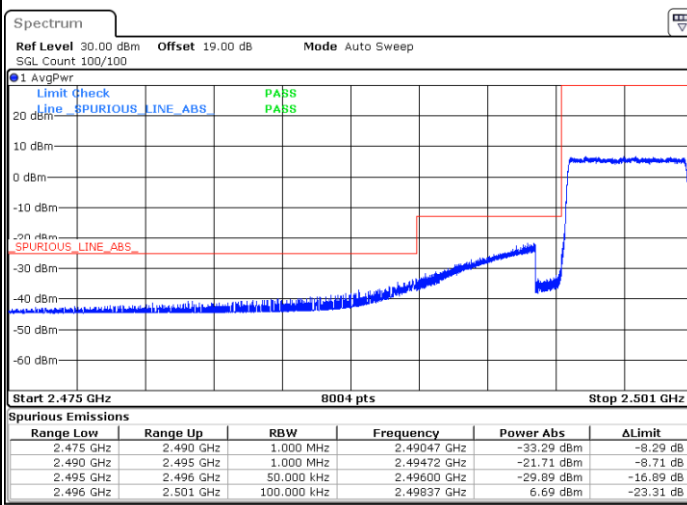
Date: 28.DEC.2023 01:39:47

Highest Band Edge / 1 RB



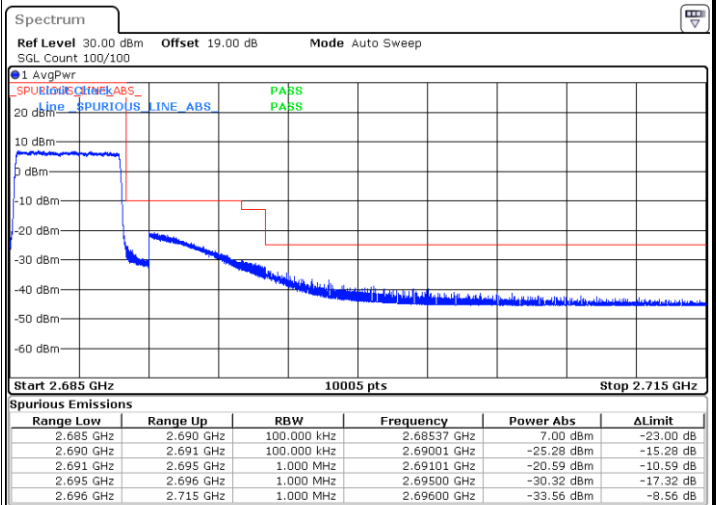
Date: 28.DEC.2023 01:49:48

Lowest Band Edge / Full RB



Date: 28.DEC.2023 01:42:54

Highest Band Edge / Full RB

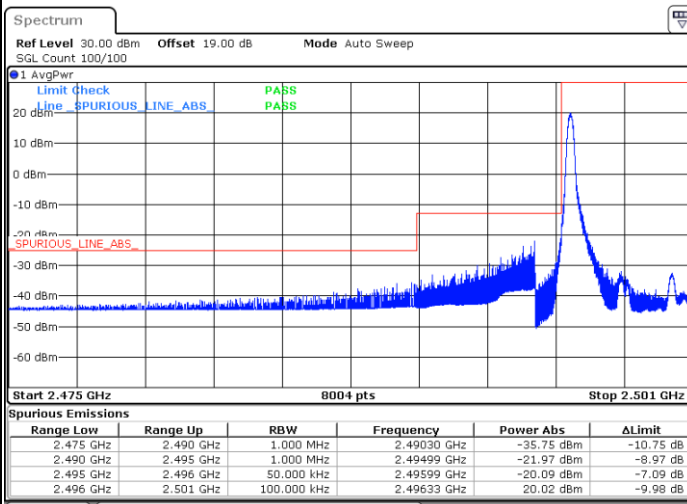


Date: 28.DEC.2023 01:53:02

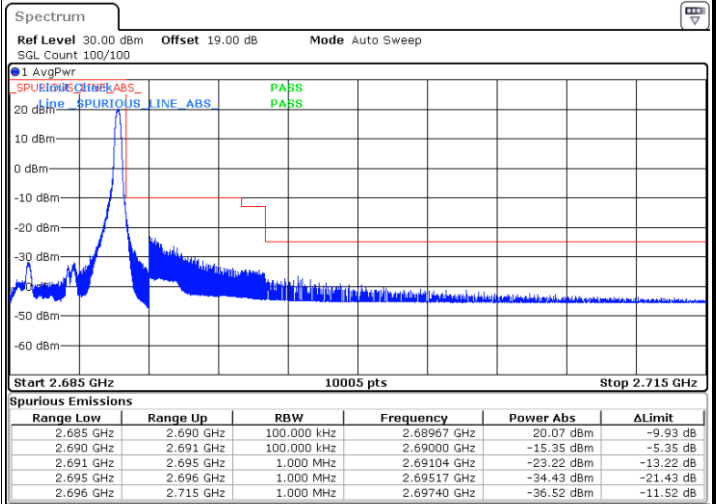


LTE Band 41 / 5MHz / 64QAM

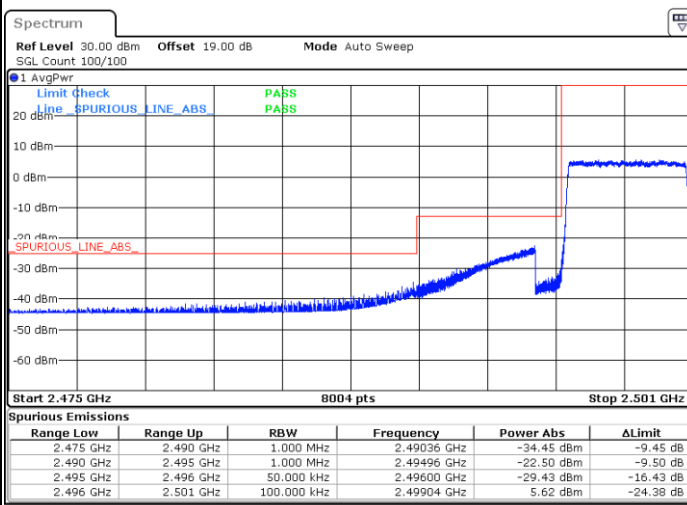
Lowest Band Edge / 1RB



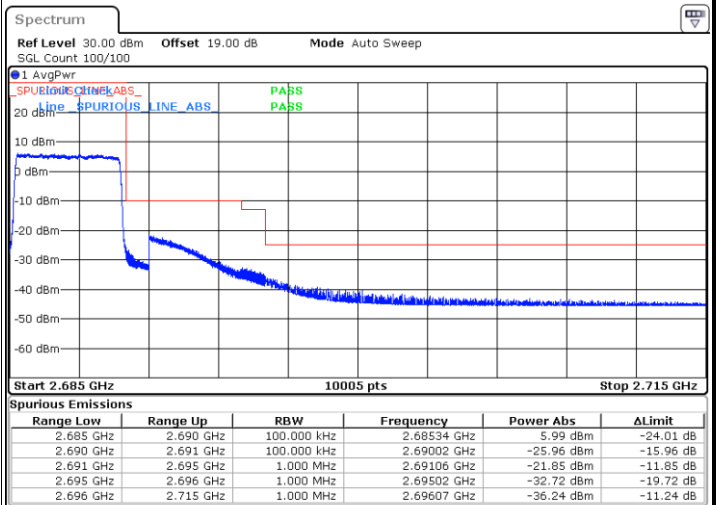
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



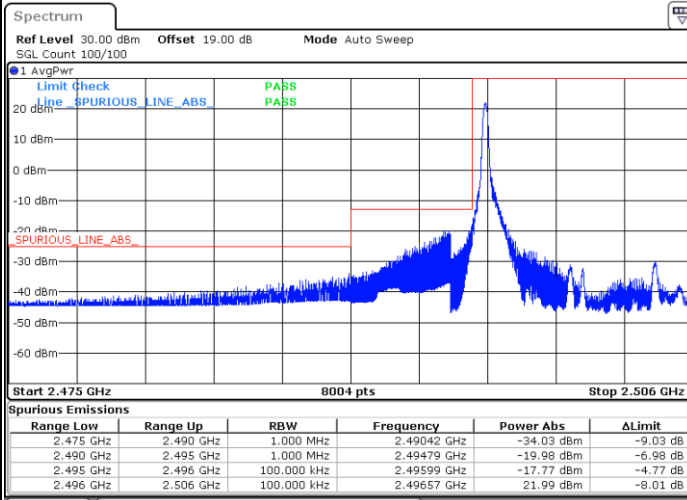
Highest Band Edge / Full RB



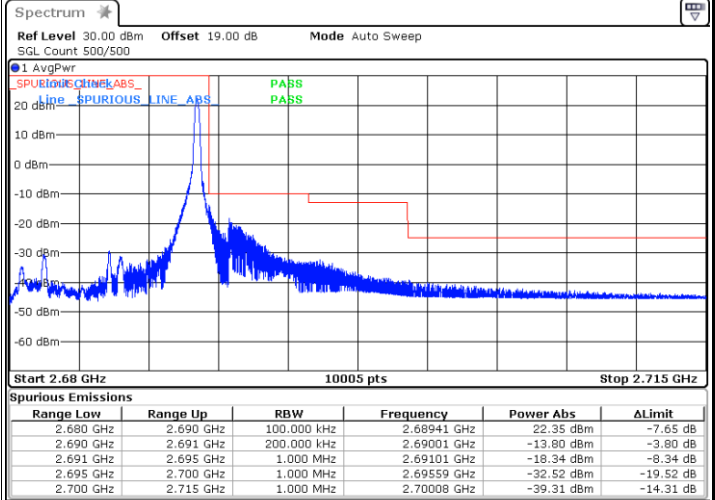


LTE Band 41 / 10MHz / QPSK

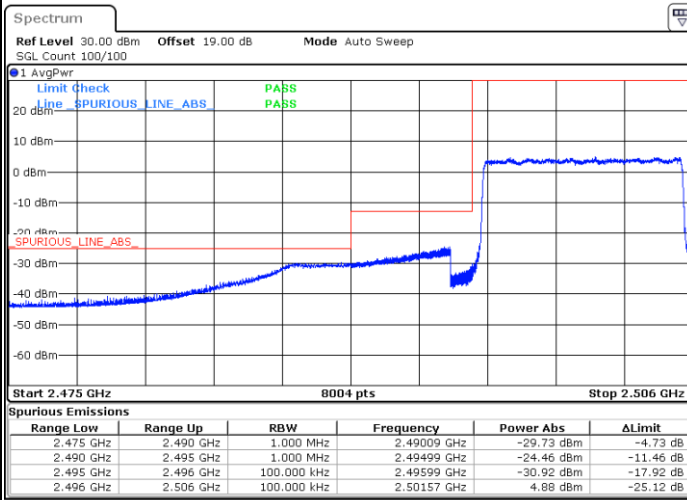
Lowest Band Edge / 1 RB



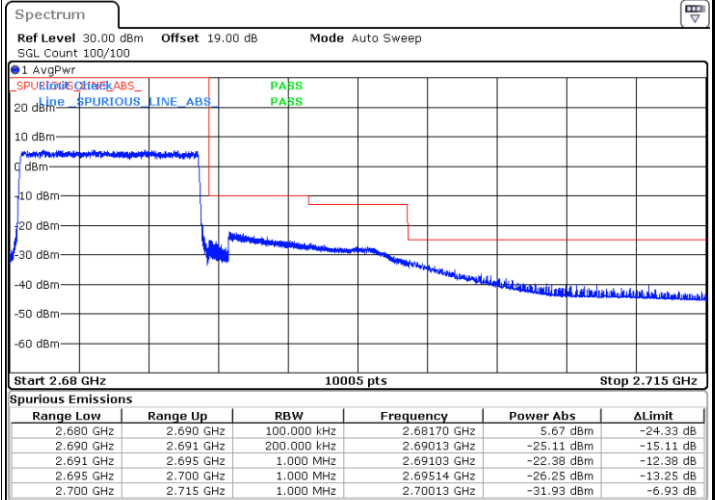
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



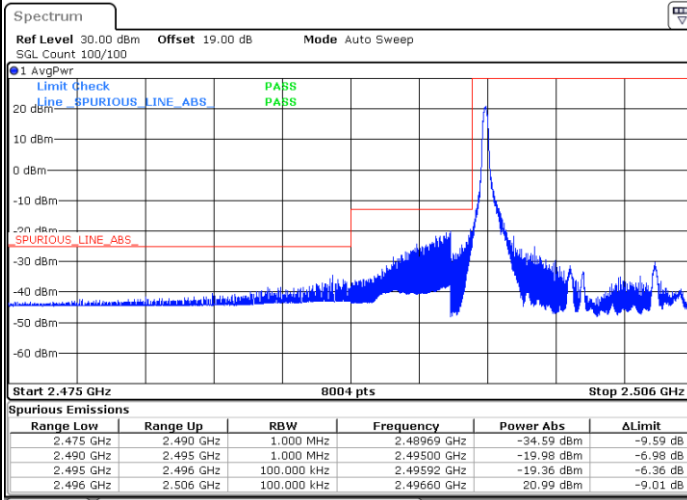
Highest Band Edge / Full RB





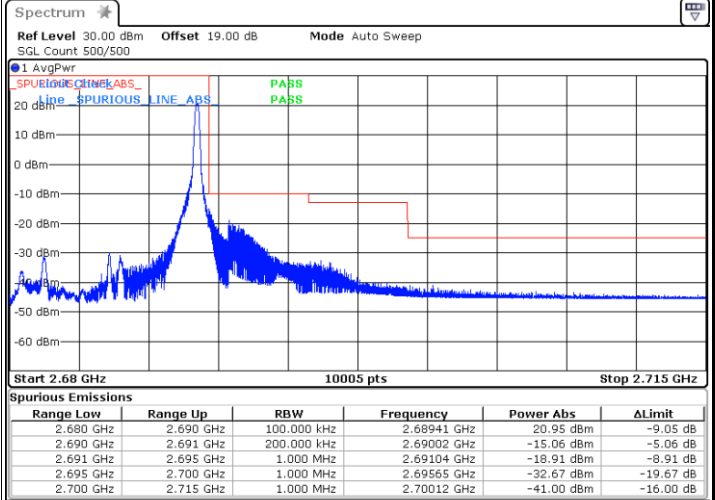
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1RB



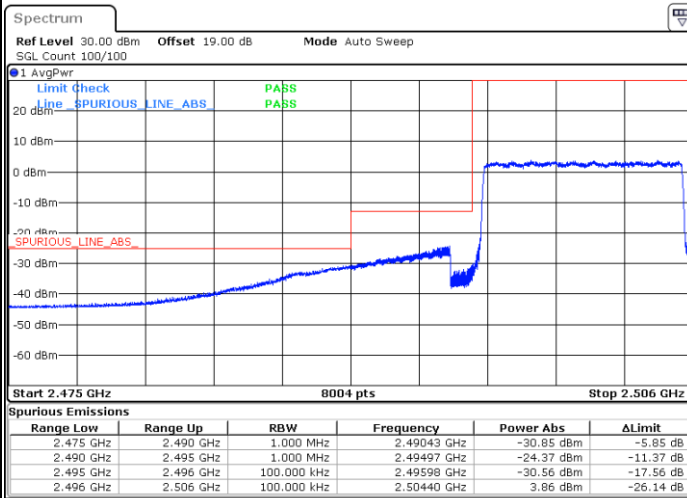
Date: 28.DEC.2023 01:58:07

Highest Band Edge / 1 RB



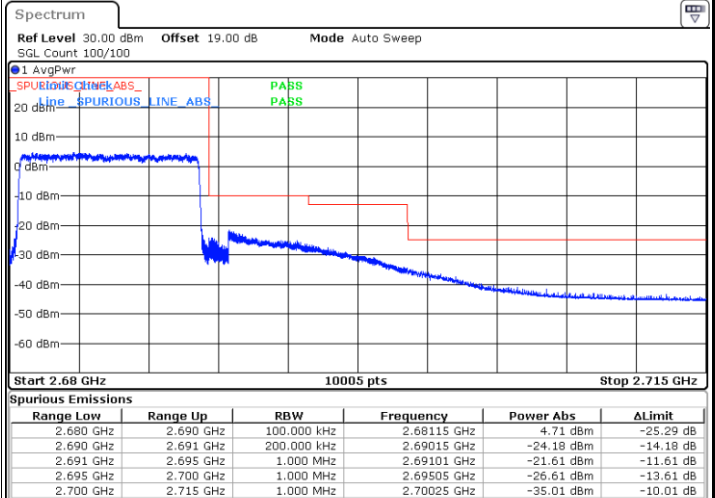
Date: 28.DEC.2023 22:01:24

Lowest Band Edge / Full RB



Date: 28.DEC.2023 02:01:14

Highest Band Edge / Full RB

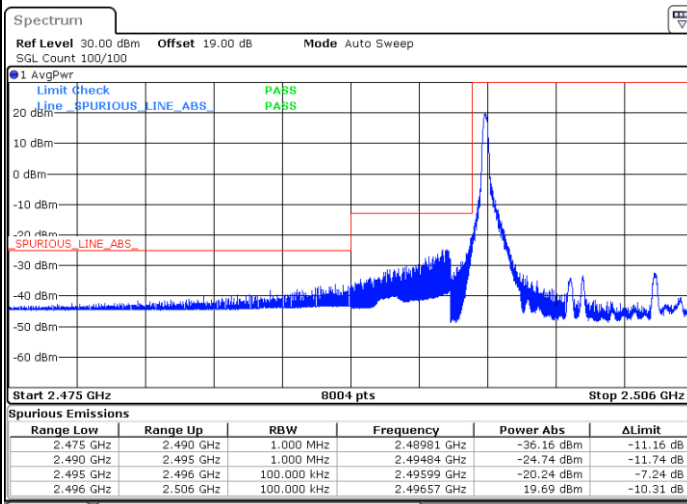


Date: 28.DEC.2023 02:11:07



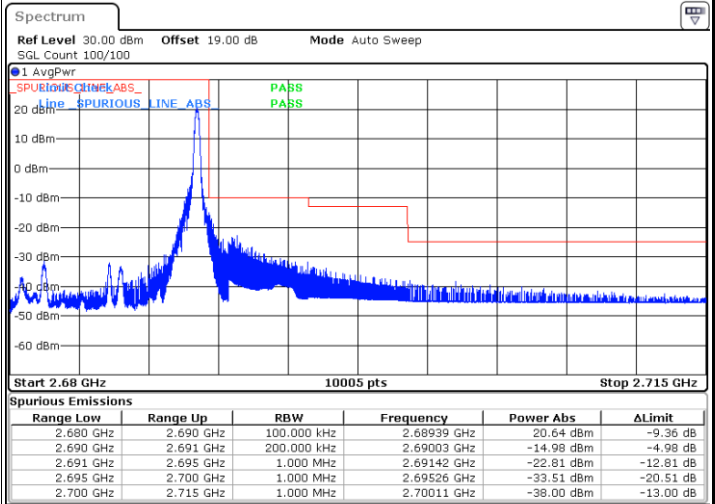
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1RB



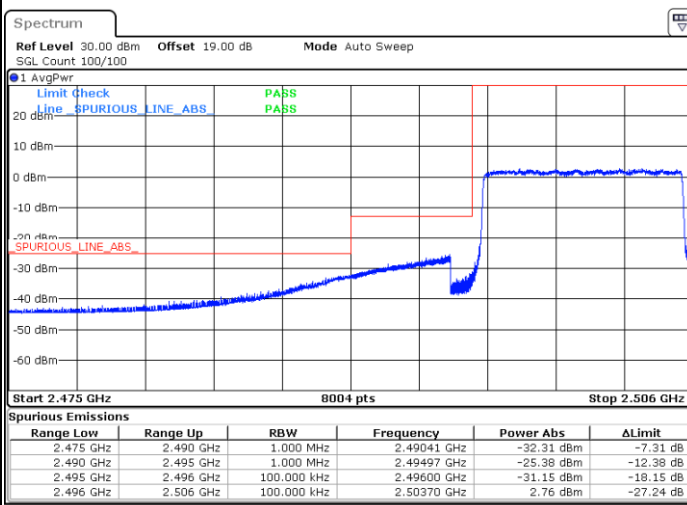
Date: 28.DEC.2023 01:59:10

Highest Band Edge / 1 RB



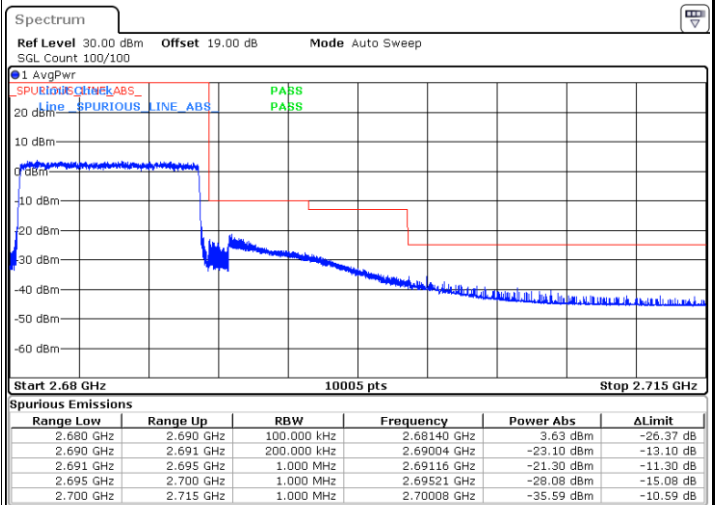
Date: 28.DEC.2023 02:09:03

Lowest Band Edge / Full RB



Date: 28.DEC.2023 02:00:12

Highest Band Edge / Full RB

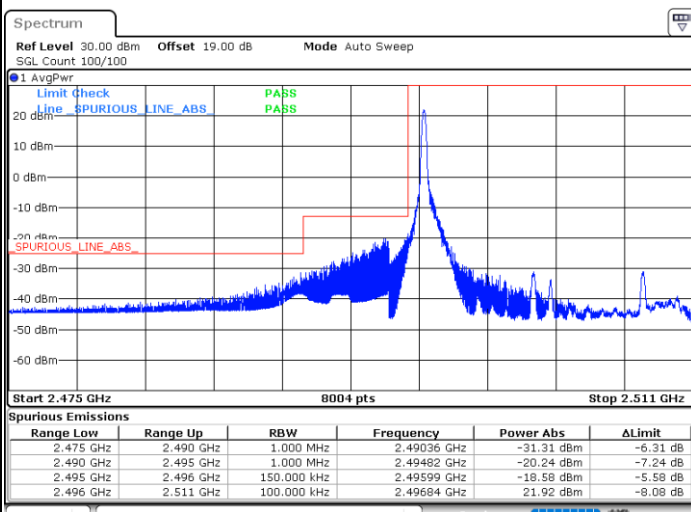


Date: 28.DEC.2023 02:10:05



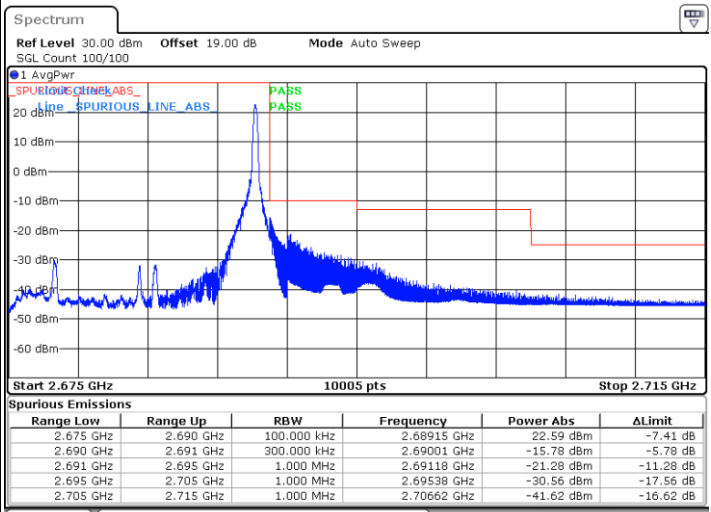
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



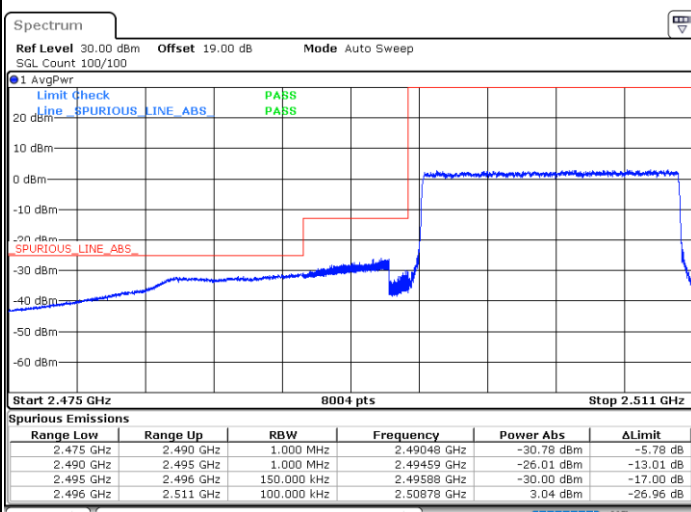
Date: 28.DEC.2023 02:15:08

Highest Band Edge / 1 RB



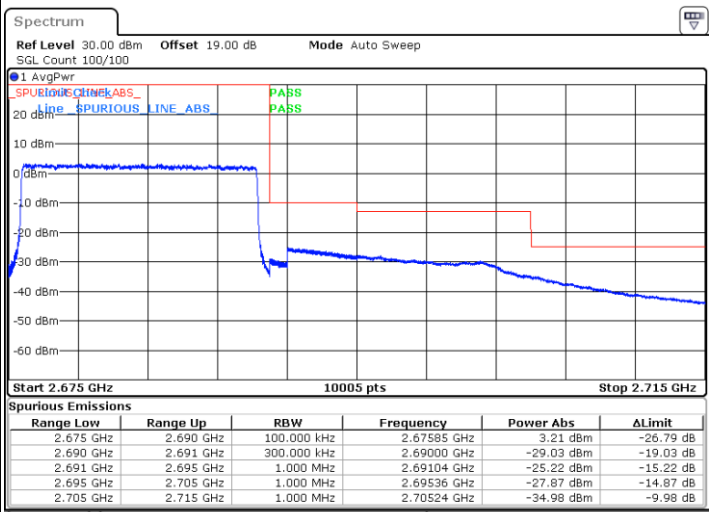
Date: 28.DEC.2023 20:55:25

Lowest Band Edge / Full RB



Date: 28.DEC.2023 20:50:41

Highest Band Edge / Full RB

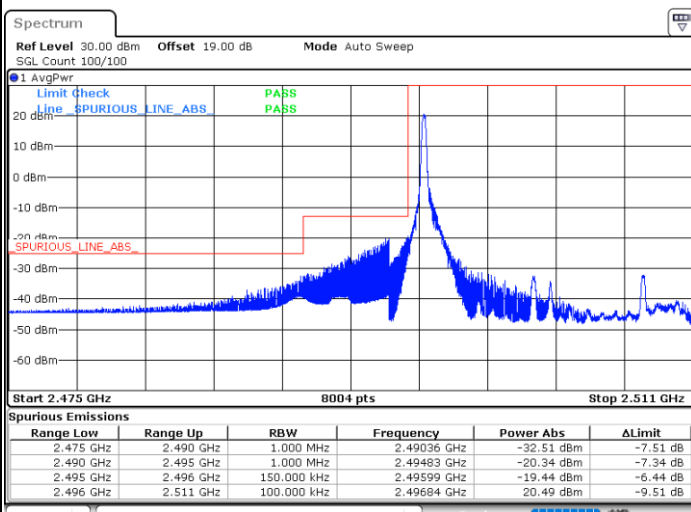


Date: 28.DEC.2023 21:00:36



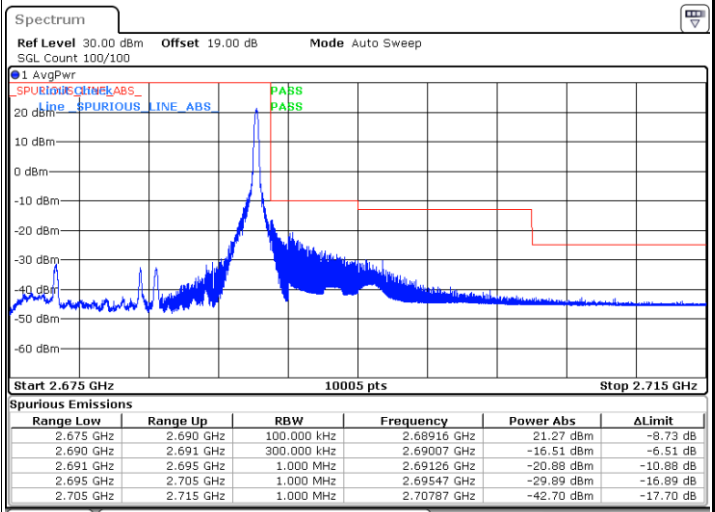
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1RB



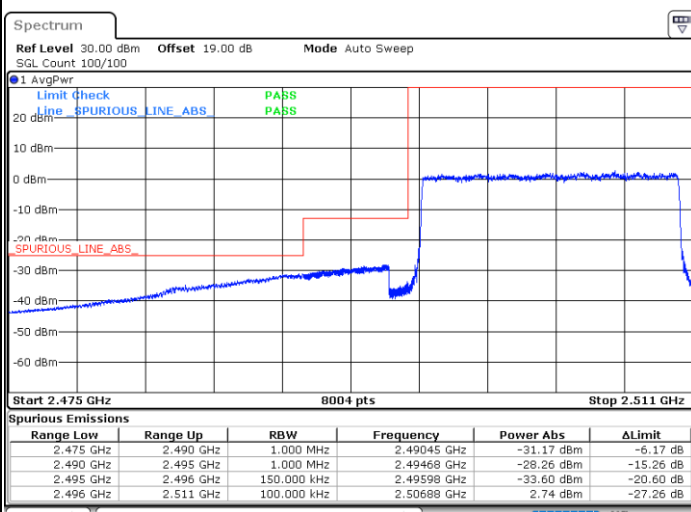
Date: 28.DEC.2023 02:16:10

Highest Band Edge / 1 RB



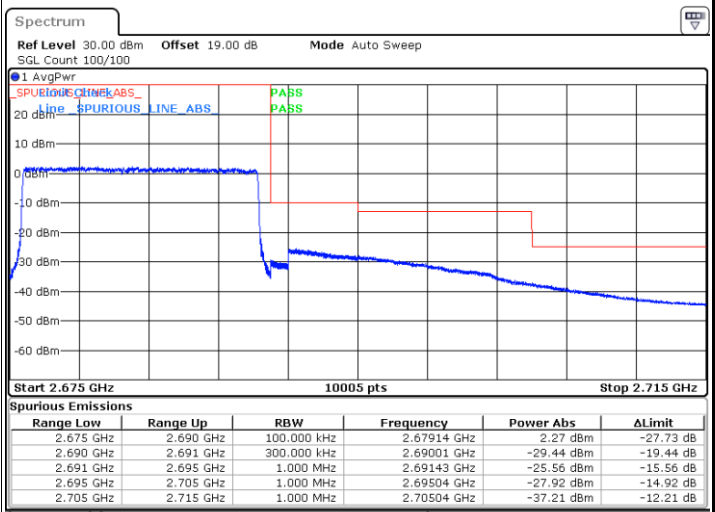
Date: 28.DEC.2023 20:56:27

Lowest Band Edge / Full RB



Date: 28.DEC.2023 20:49:39

Highest Band Edge / Full RB

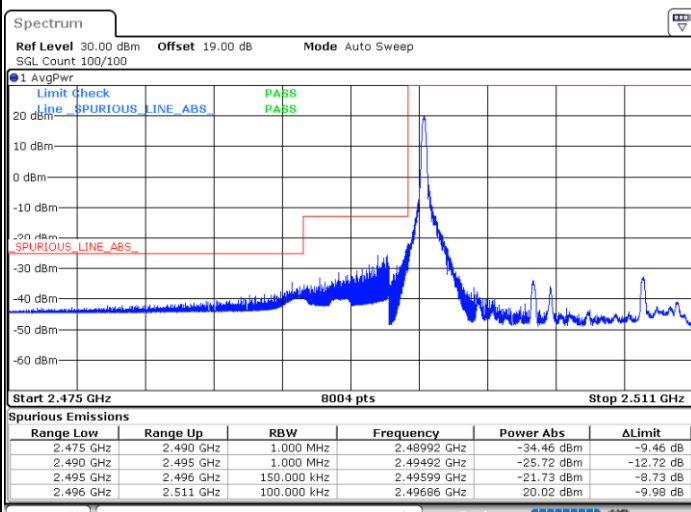


Date: 28.DEC.2023 20:59:33



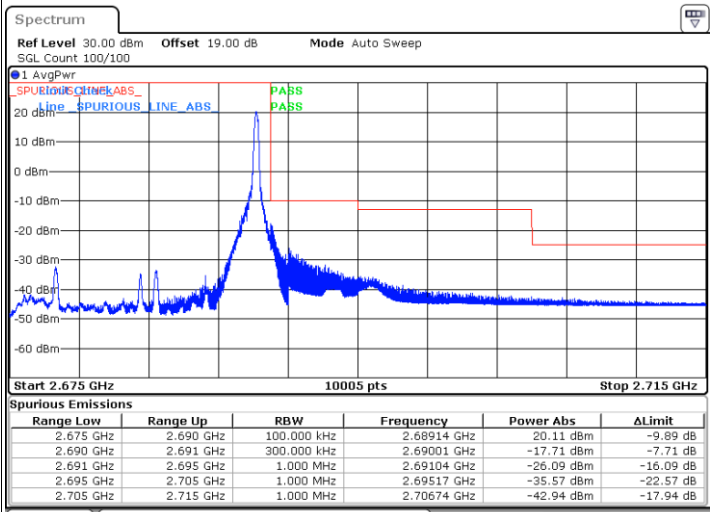
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1RB



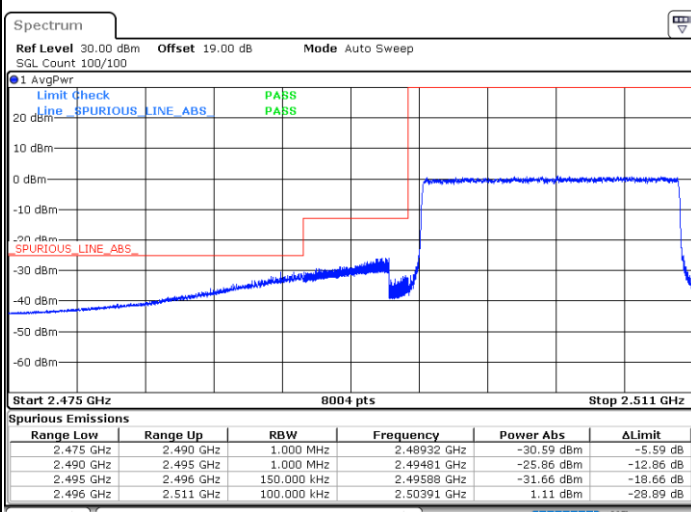
Date: 28.DEC.2023 02:17:12

Highest Band Edge / 1 RB



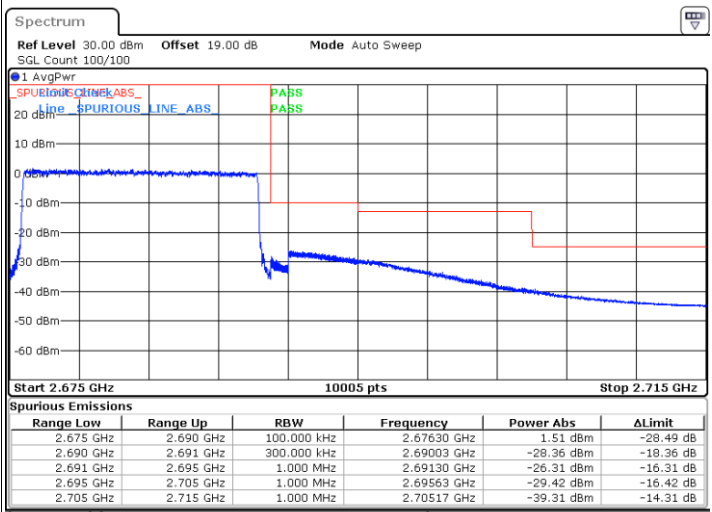
Date: 28.DEC.2023 20:57:29

Lowest Band Edge / Full RB



Date: 28.DEC.2023 20:48:37

Highest Band Edge / Full RB

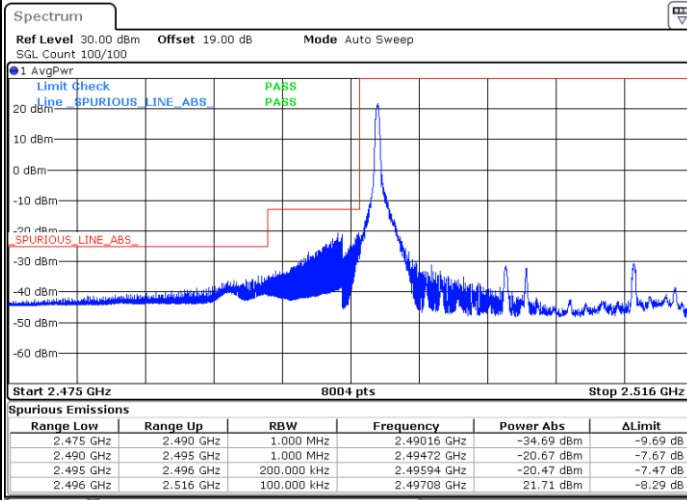


Date: 28.DEC.2023 20:58:31



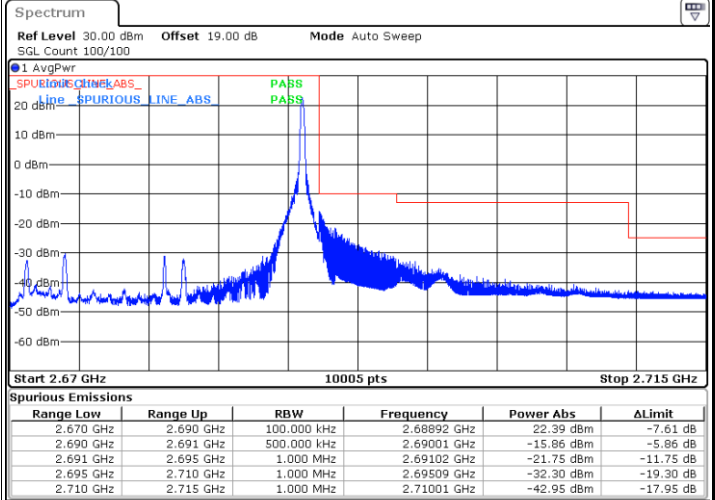
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



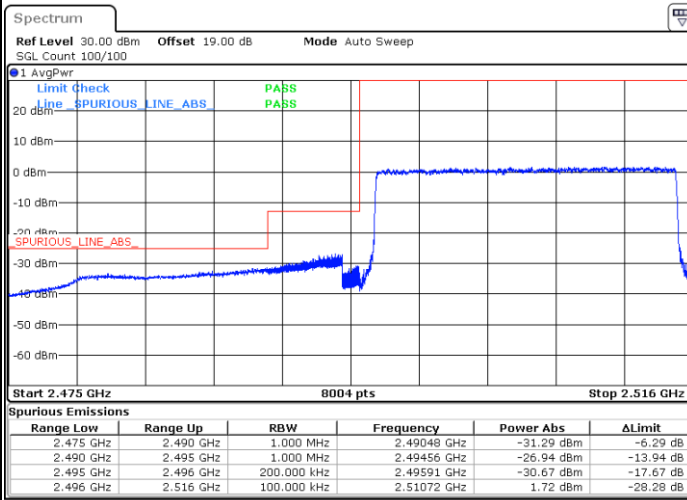
Date: 28.DEC.2023 21:04:41

Highest Band Edge / 1 RB



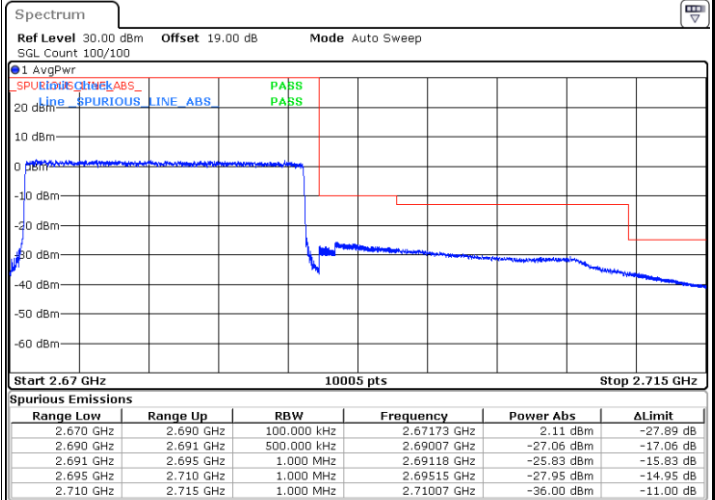
Date: 28.DEC.2023 21:16:00

Lowest Band Edge / Full RB



Date: 28.DEC.2023 21:09:52

Highest Band Edge / Full RB

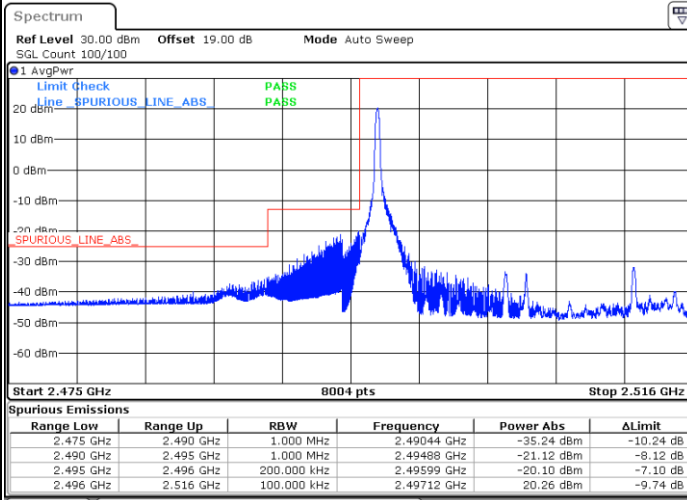


Date: 28.DEC.2023 21:21:10



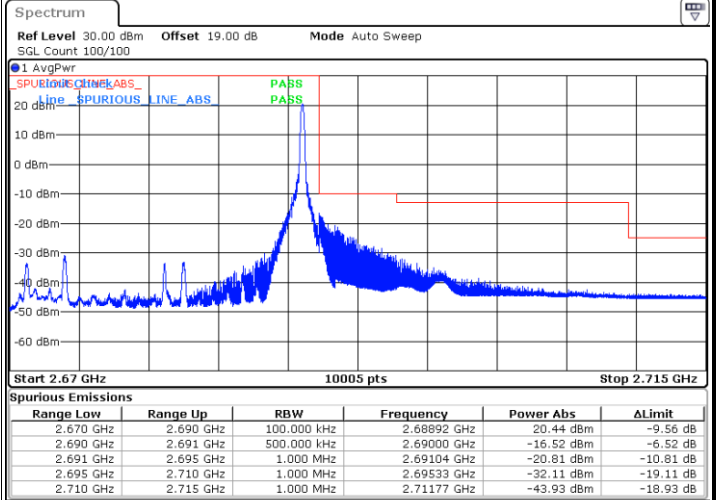
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1RB



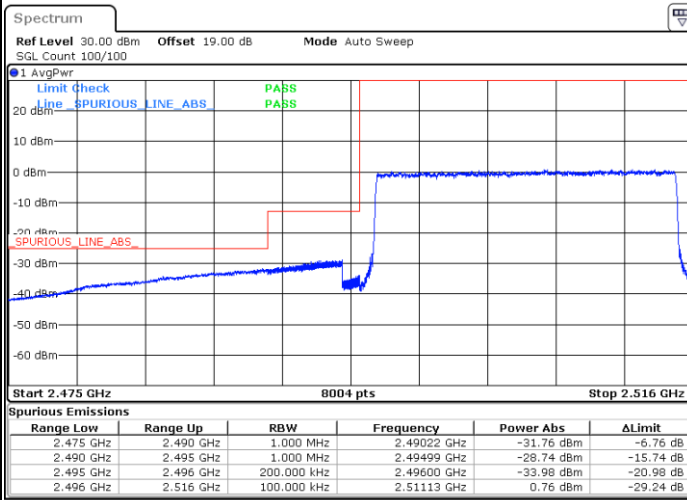
Date: 28.DEC.2023 21:05:44

Highest Band Edge / 1 RB



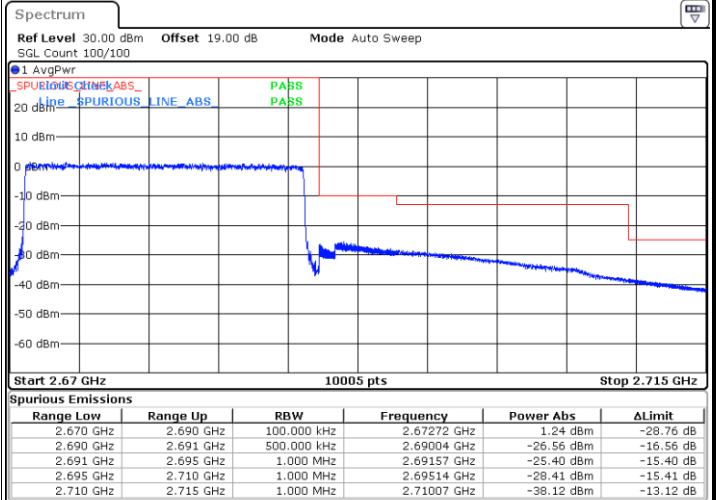
Date: 28.DEC.2023 21:17:02

Lowest Band Edge / Full RB



Date: 28.DEC.2023 21:08:50

Highest Band Edge / Full RB

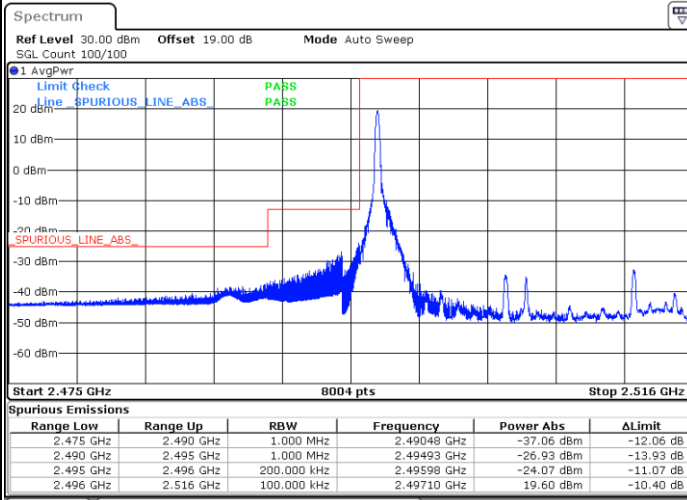


Date: 28.DEC.2023 21:20:08



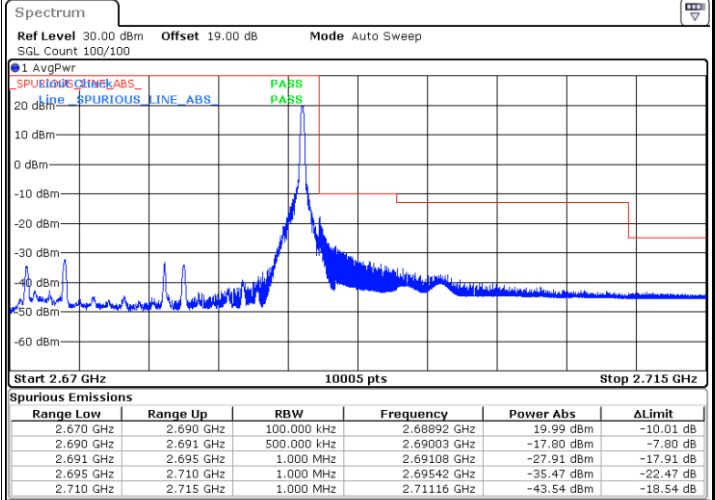
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1RB



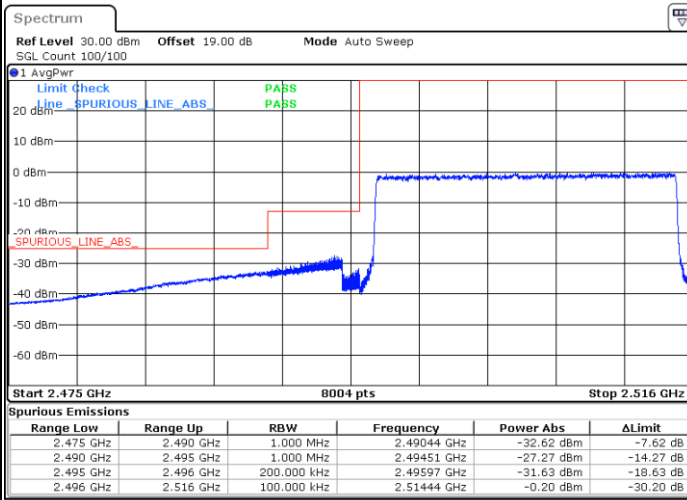
Date: 28.DEC.2023 21:06:46

Highest Band Edge / 1 RB



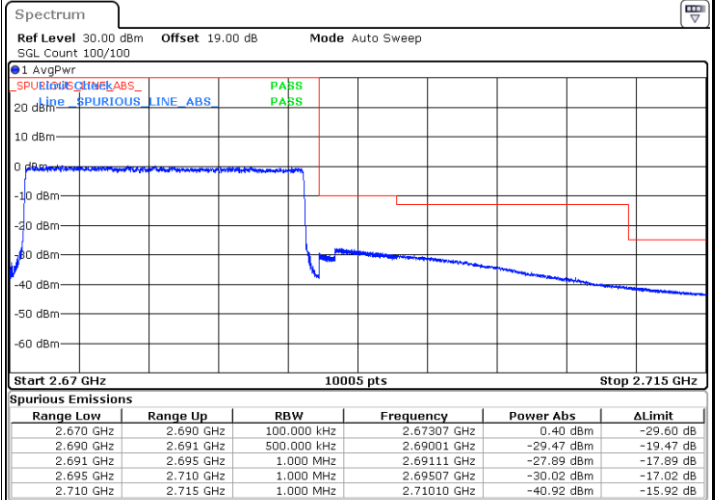
Date: 28.DEC.2023 21:18:04

Lowest Band Edge / Full RB



Date: 28.DEC.2023 21:07:48

Highest Band Edge / Full RB



Date: 28.DEC.2023 21:19:06

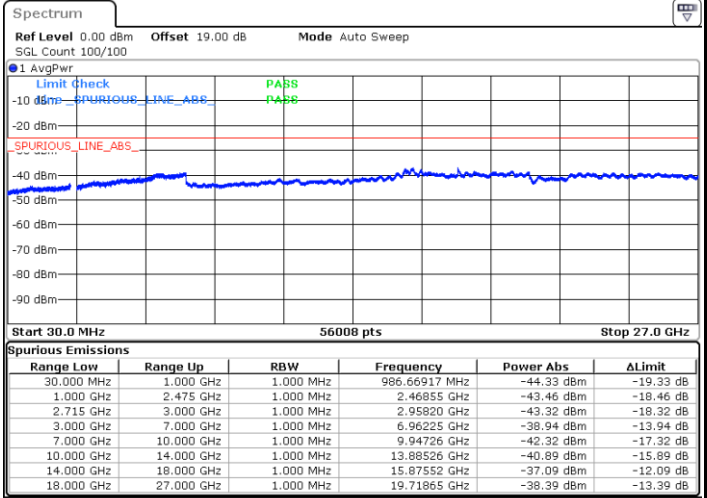
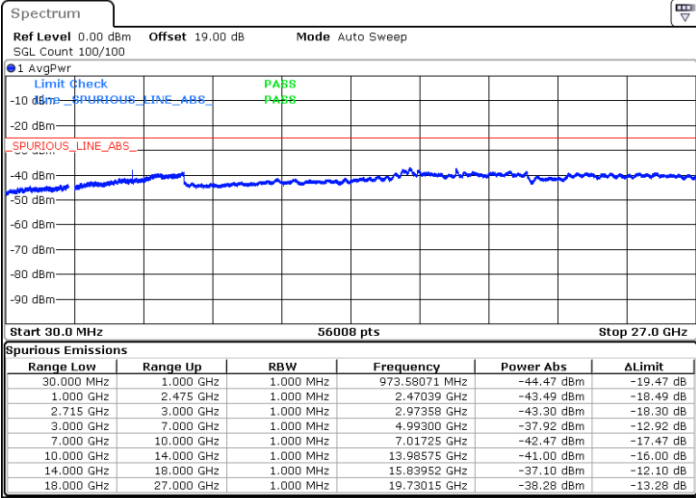


Conducted Spurious Emission

LTE Band 41 / 5MHz

Lowest Channel / QPSK

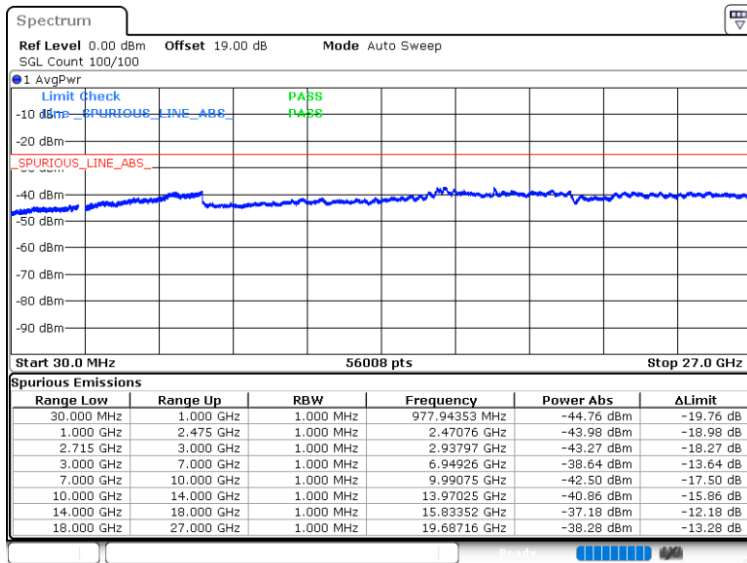
Middle Channel / QPSK



Date: 28.DEC.2023 01:45:08

Date: 28.DEC.2023 01:46:18

Highest Channel / QPSK



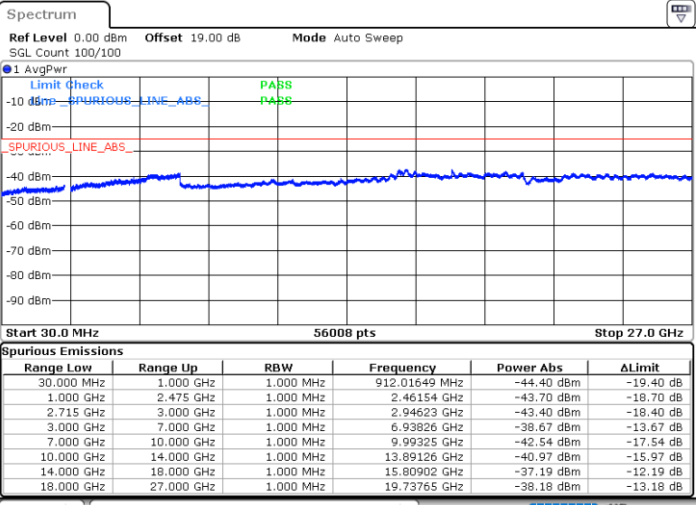
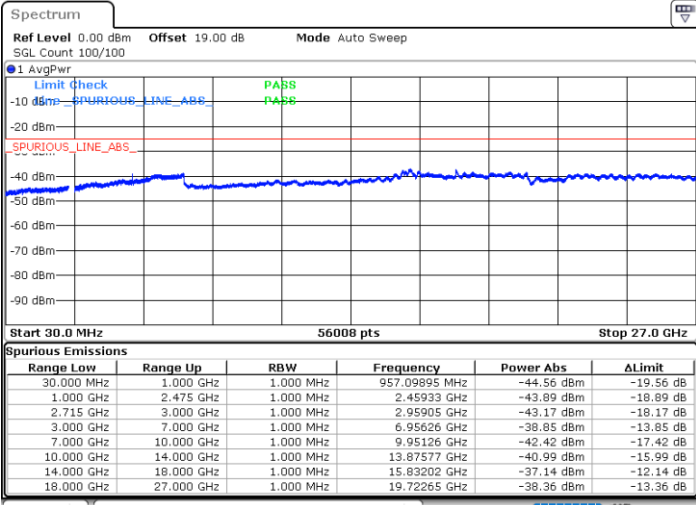
Date: 28.DEC.2023 01:55:17



LTE Band 41 / 10MHz

Lowest Channel / QPSK

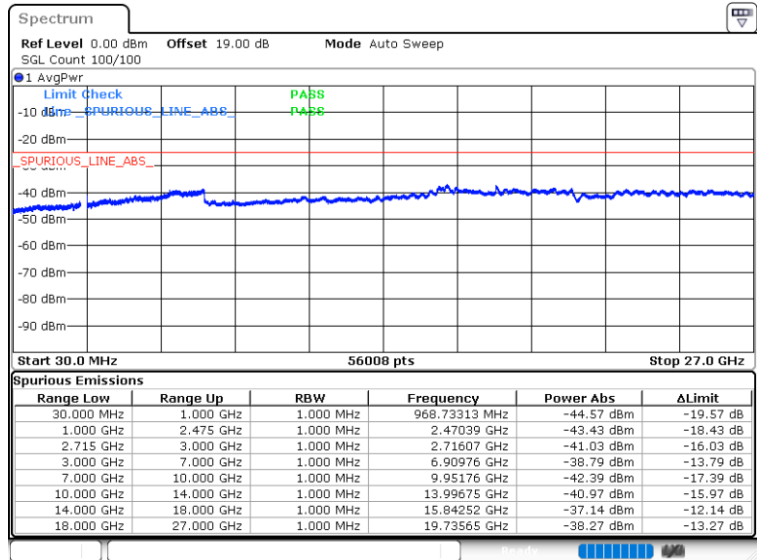
Middle Channel / QPSK



Date: 28.DEC.2023 02:03:27

Date: 28.DEC.2023 02:04:38

Highest Channel / QPSK



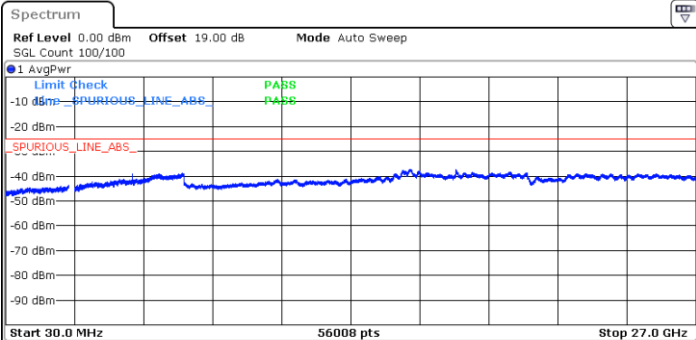
Date: 28.DEC.2023 02:13:20



LTE Band 41 / 15MHz

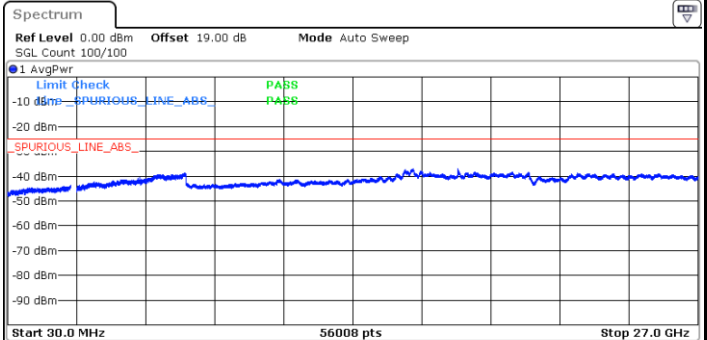
Lowest Channel / QPSK

Middle Channel / QPSK



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	938.67816 MHz	-44.55 dBm	-19.55 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47187 GHz	-43.81 dBm	-18.81 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.97102 GHz	-43.28 dBm	-18.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92226 GHz	-38.78 dBm	-13.78 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.97425 GHz	-42.45 dBm	-17.45 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.93626 GHz	-40.99 dBm	-15.99 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.83352 GHz	-37.19 dBm	-12.19 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.71315 GHz	-38.23 dBm	-13.23 dB

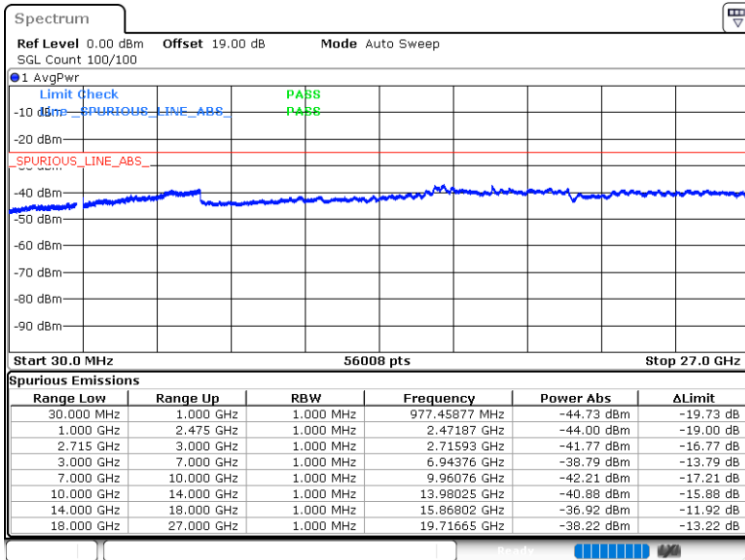
Date: 28.DEC.2023 20:51:52



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	895.04998 MHz	-44.67 dBm	-19.67 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47187 GHz	-43.83 dBm	-18.83 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.95905 GHz	-43.37 dBm	-18.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95576 GHz	-38.88 dBm	-13.88 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.95626 GHz	-42.46 dBm	-17.46 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.93276 GHz	-41.08 dBm	-16.08 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.86902 GHz	-37.12 dBm	-12.12 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.71215 GHz	-38.22 dBm	-13.22 dB

Date: 28.DEC.2023 20:53:03

Highest Channel / QPSK



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	977.45877 MHz	-44.73 dBm	-19.73 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47187 GHz	-44.00 dBm	-19.00 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.71593 GHz	-41.77 dBm	-16.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94376 GHz	-38.79 dBm	-13.79 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96076 GHz	-42.21 dBm	-17.21 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.98025 GHz	-40.88 dBm	-15.88 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.86802 GHz	-36.92 dBm	-11.92 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.71665 GHz	-38.22 dBm	-13.22 dB

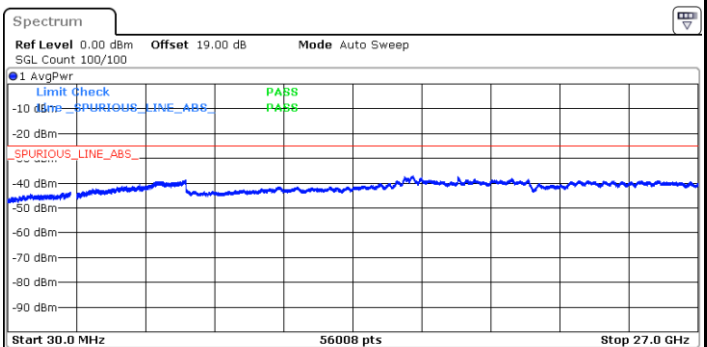
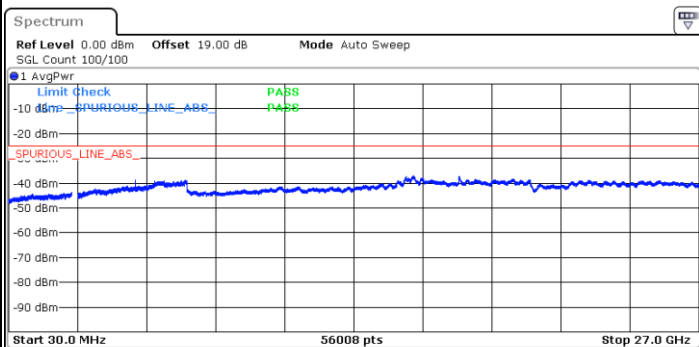
Date: 28.DEC.2023 21:01:46



LTE Band 41 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



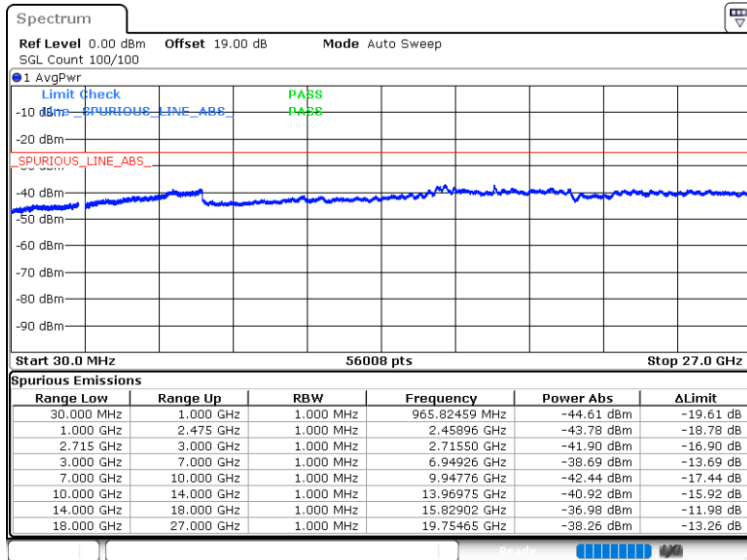
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	964.37031 MHz	-44.30 dBm	-19.30 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47445 GHz	-43.75 dBm	-18.75 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.95506 GHz	-43.48 dBm	-18.48 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93176 GHz	-38.83 dBm	-13.83 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.97175 GHz	-42.51 dBm	-17.51 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.89676 GHz	-40.98 dBm	-15.98 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.83952 GHz	-37.07 dBm	-12.07 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.69766 GHz	-38.29 dBm	-13.29 dB

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	928.01349 MHz	-44.52 dBm	-19.52 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47482 GHz	-43.59 dBm	-18.59 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.96945 GHz	-43.45 dBm	-18.45 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99625 GHz	-38.80 dBm	-13.80 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.93676 GHz	-42.39 dBm	-17.39 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.90226 GHz	-41.05 dBm	-16.05 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.86102 GHz	-37.02 dBm	-12.02 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.74465 GHz	-38.13 dBm	-13.13 dB

Date: 28.DEC.2023 21:11:03

Date: 28.DEC.2023 21:12:14

Highest Channel / QPSK



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	965.82459 MHz	-44.61 dBm	-19.61 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.45896 GHz	-43.78 dBm	-18.78 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.71550 GHz	-41.90 dBm	-16.90 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94926 GHz	-38.69 dBm	-13.69 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.94776 GHz	-42.44 dBm	-17.44 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.96975 GHz	-40.92 dBm	-15.92 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.82902 GHz	-36.98 dBm	-11.98 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.75465 GHz	-38.26 dBm	-13.26 dB

Date: 28.DEC.2023 21:22:21



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	0.0018	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

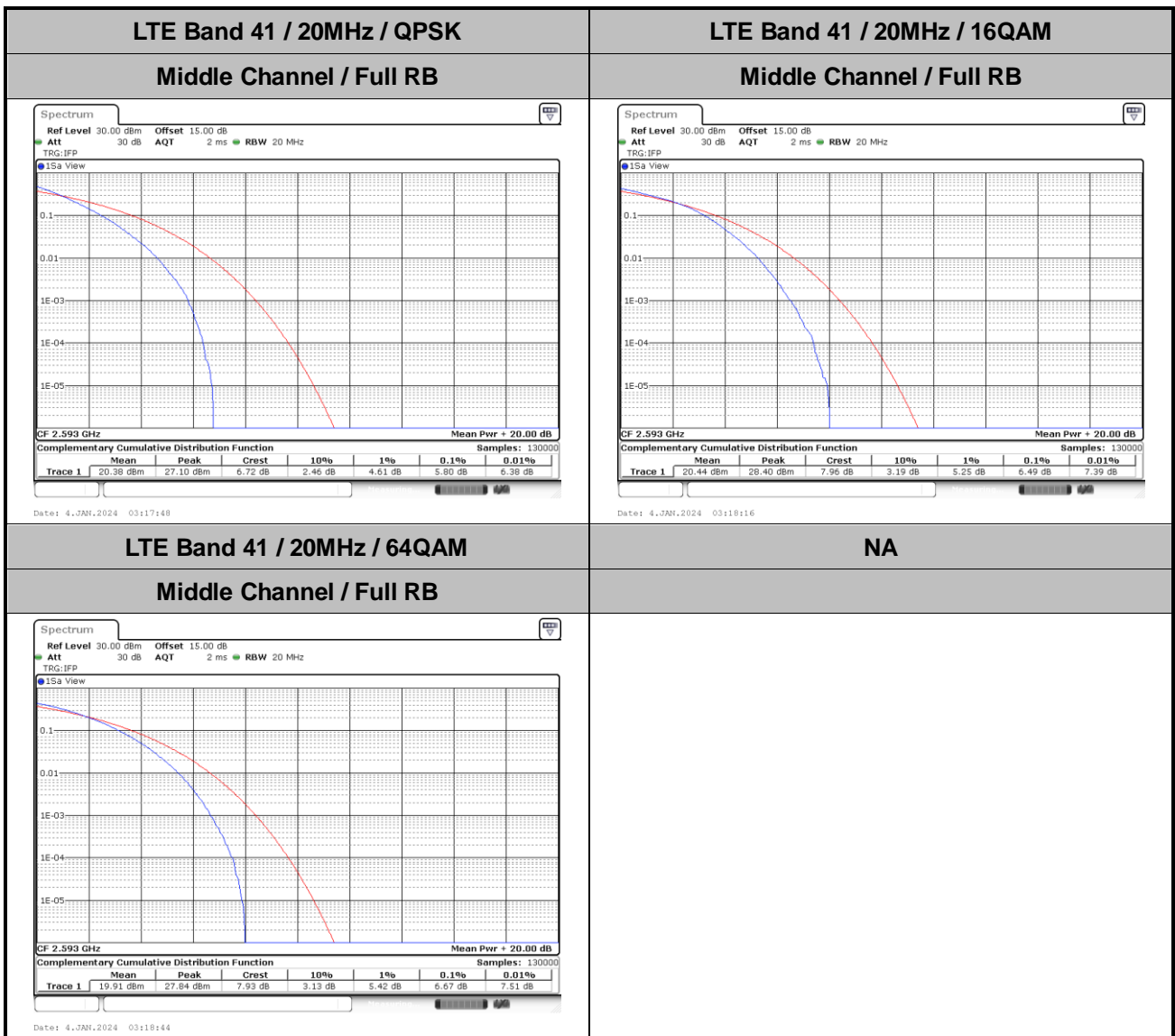
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41(Other PA)

Peak-to-Average Ratio

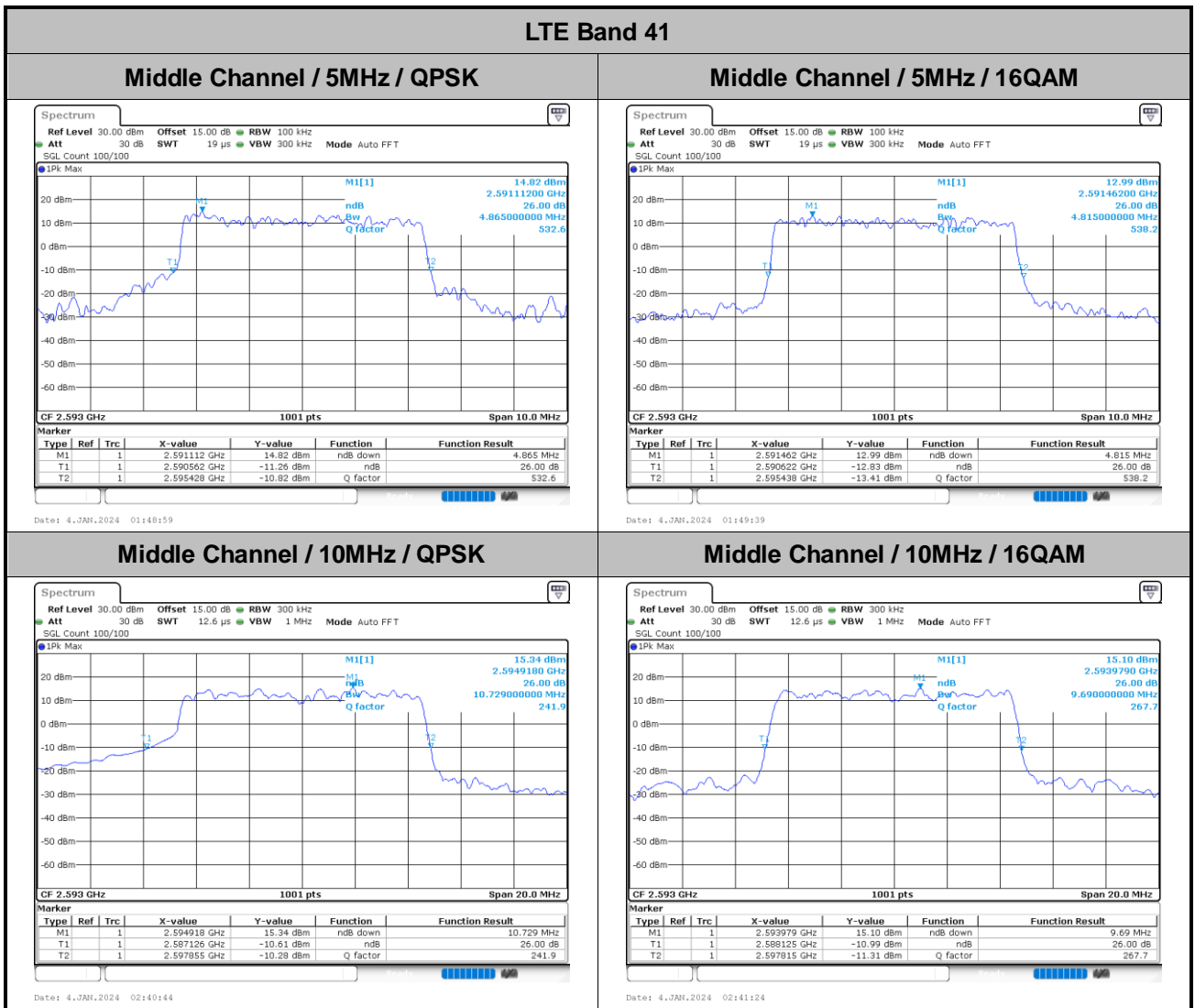
Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.80	6.49	6.67	PASS





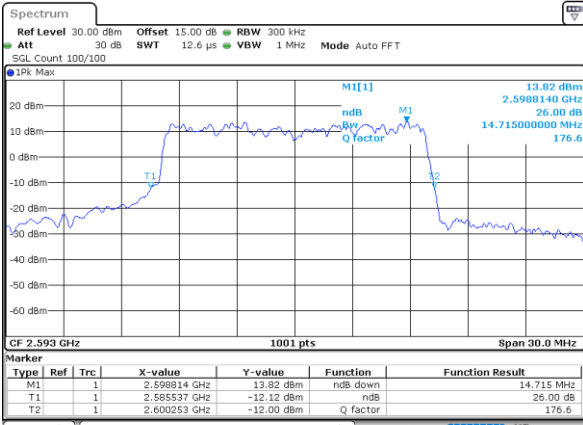
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
	-				5MHz		10MHz		15MHz		20MHz	
BW	-	-	-	-	5MHz	10MHz	10MHz	15MHz	15MHz	20MHz	20MHz	
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.87	4.82	10.73	9.69	14.72	14.15	18.94	19.18



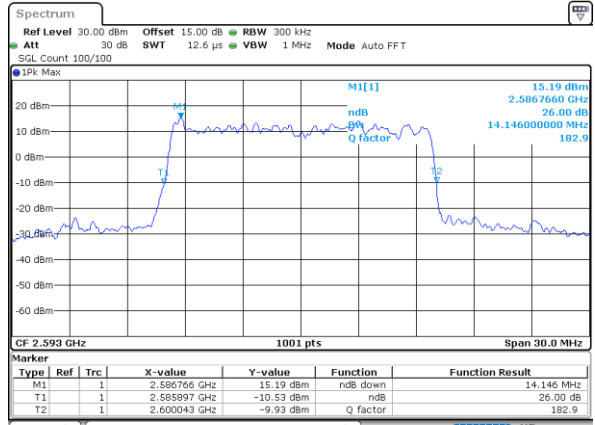


Middle Channel / 15MHz / QPSK



Date: 4,JAN,2024 02:15:43

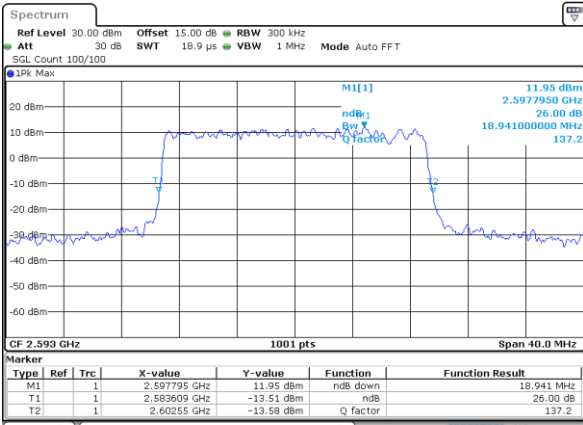
Middle Channel / 15MHz / 16QAM



Date: 4,JAN,2024 02:59:23

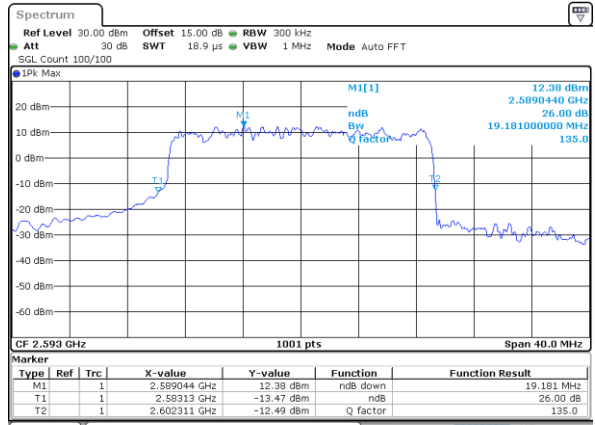
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 4,JAN,2024 03:16:41

Middle Channel / 20MHz / 16QAM

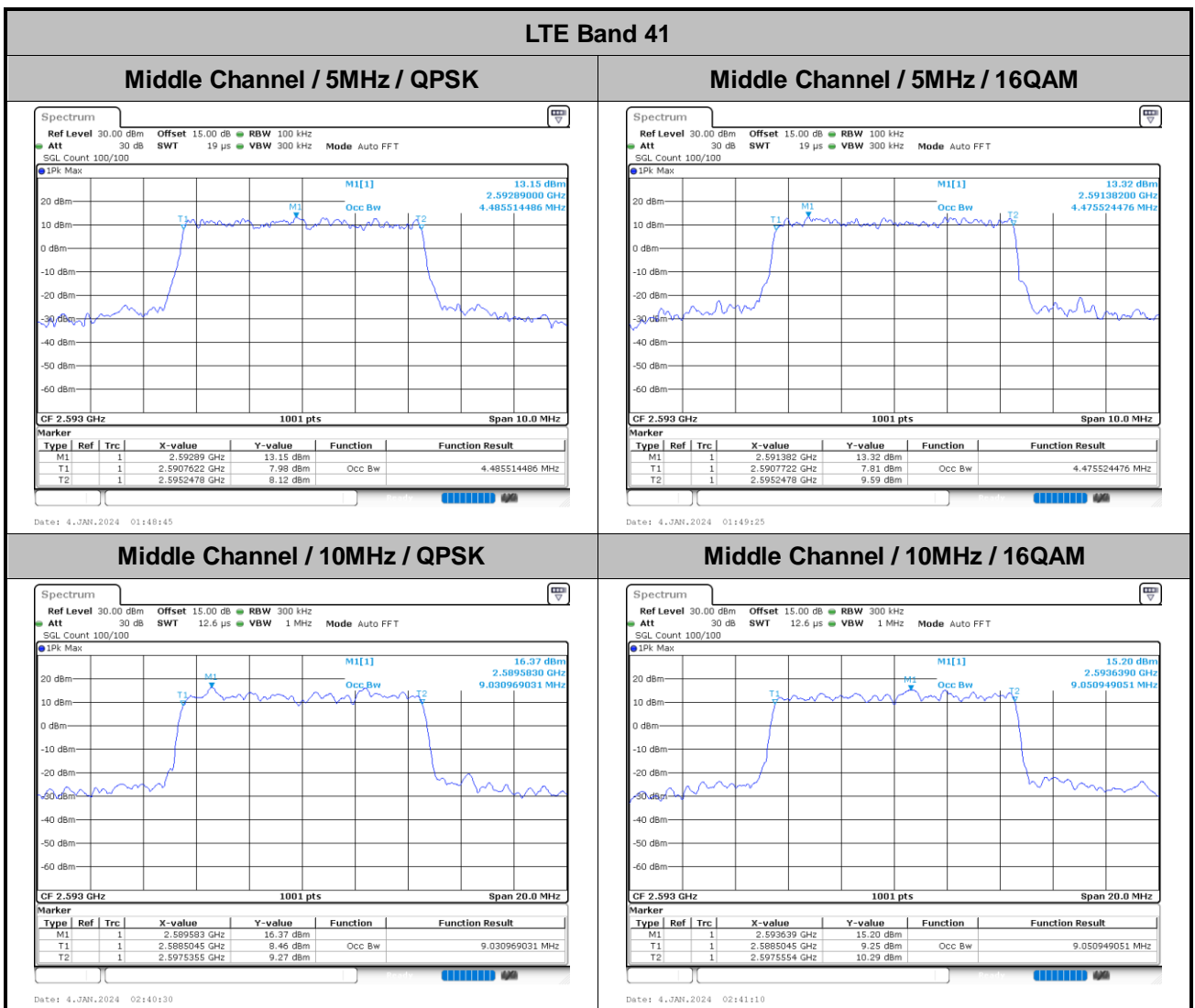


Date: 4,JAN,2024 03:17:21



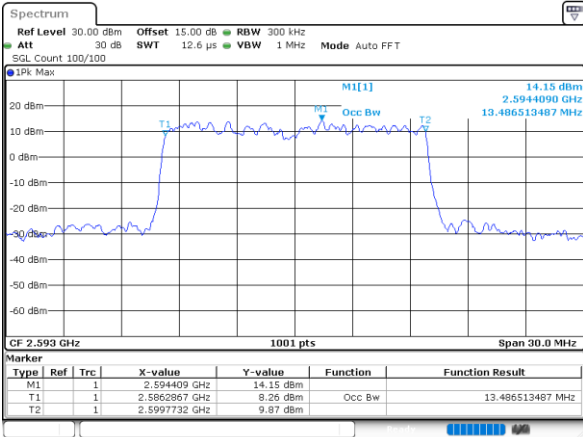
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
	BW		-		5MHz		10MHz		15MHz		20MHz	
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.48	9.03	9.05	13.49	13.49	17.86	17.82



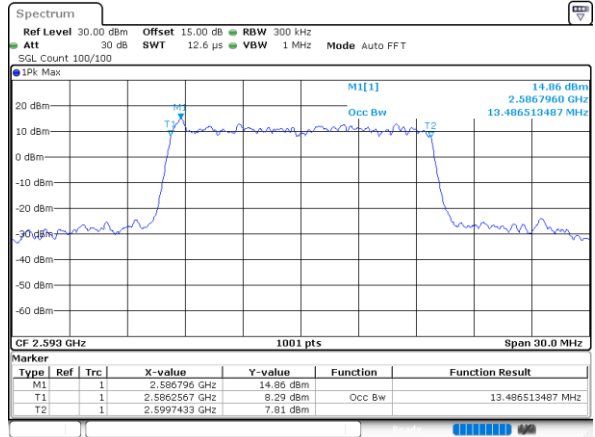


Middle Channel / 15MHz / QPSK



Date: 4.JAN.2024 02:15:29

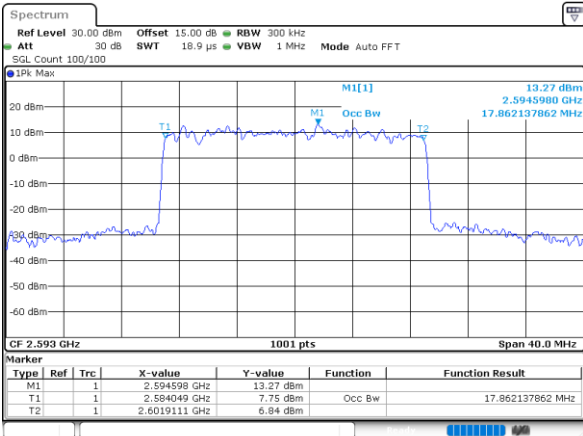
Middle Channel / 15MHz / 16QAM



Date: 4.JAN.2024 02:59:09

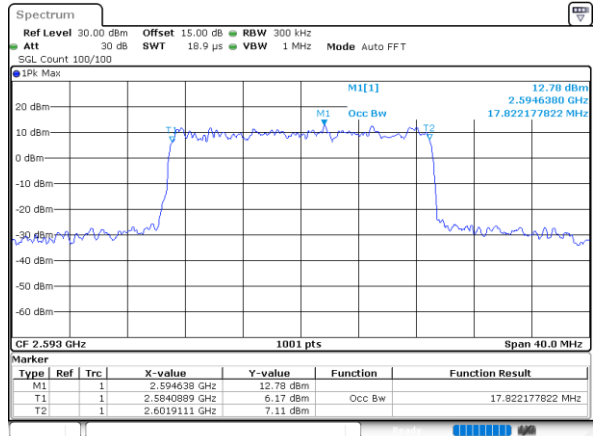
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 4.JAN.2024 03:16:27

Middle Channel / 20MHz / 16QAM



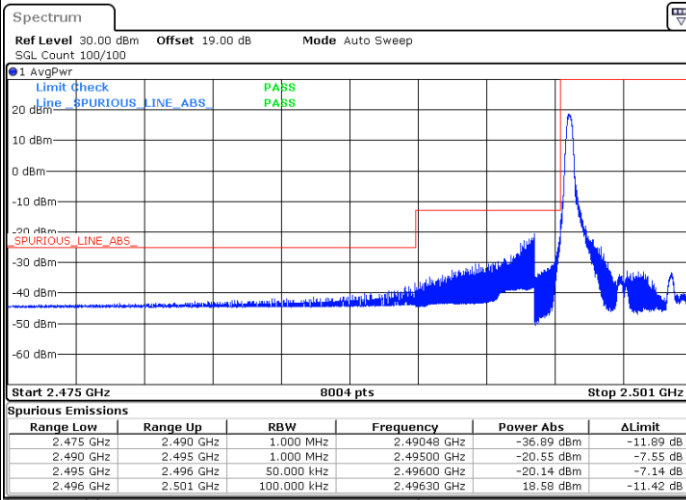
Date: 4.JAN.2024 03:17:07



Conducted Band Edge

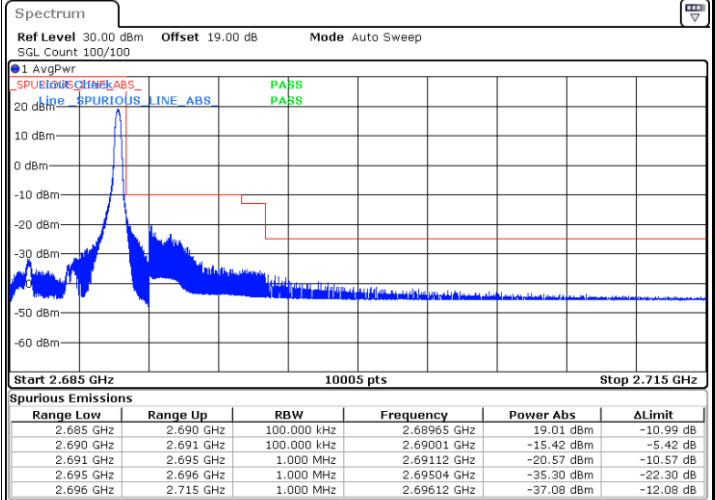
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



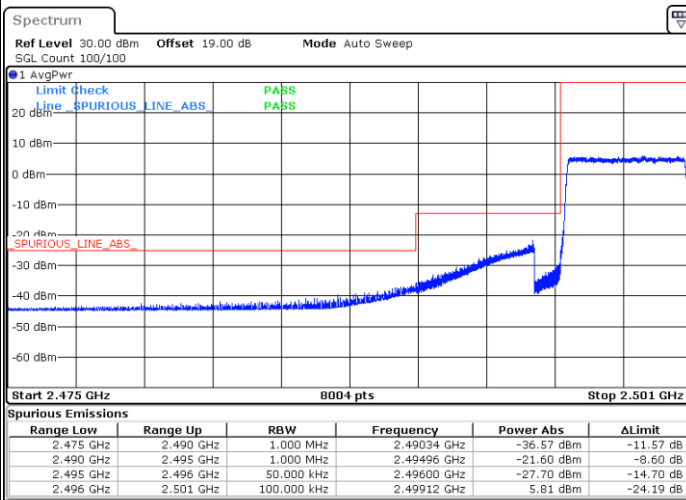
Date: 4.JAN.2024 01:40:45

Highest Band Edge / 1 RB



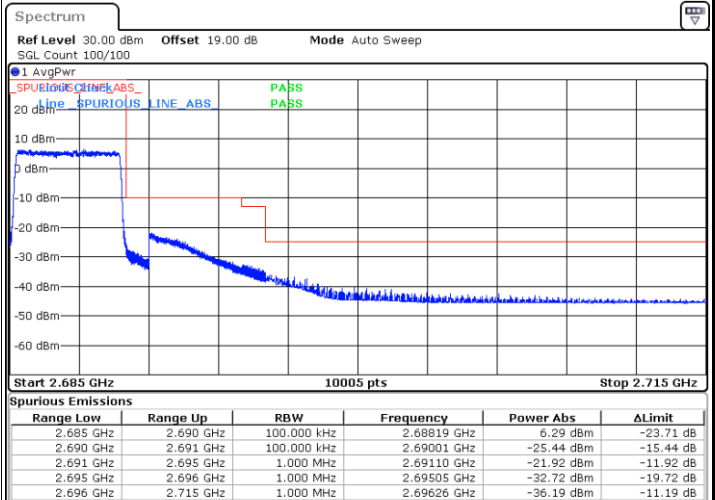
Date: 4.JAN.2024 01:50:42

Lowest Band Edge / Full RB



Date: 4.JAN.2024 01:45:56

Highest Band Edge / Full RB

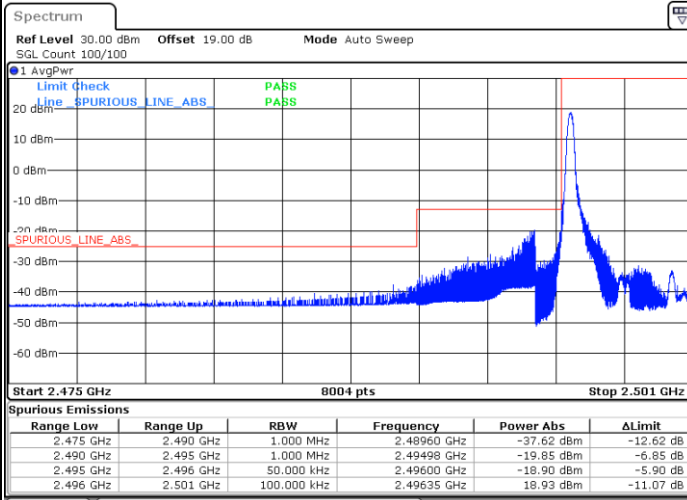


Date: 4.JAN.2024 01:56:04



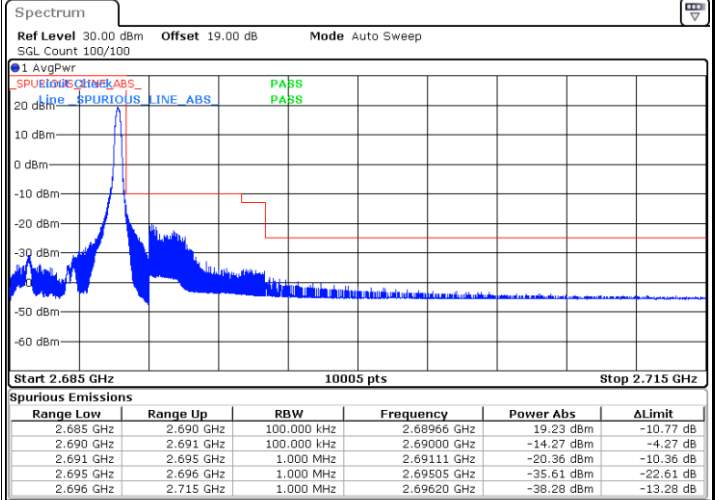
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



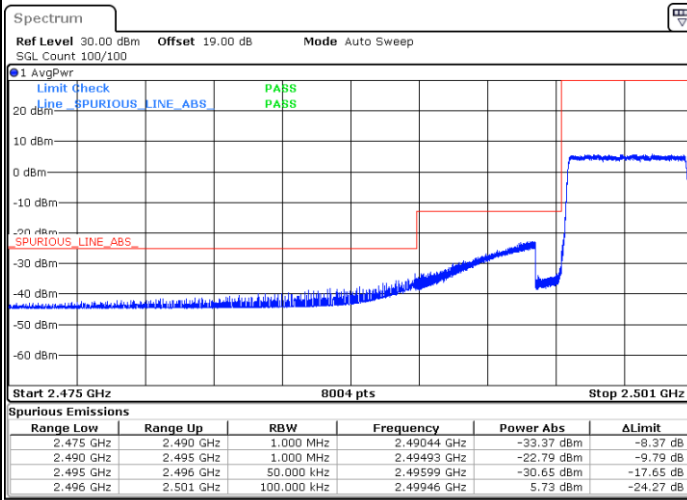
Date: 4.JAN.2024 01:41:47

Highest Band Edge / 1 RB



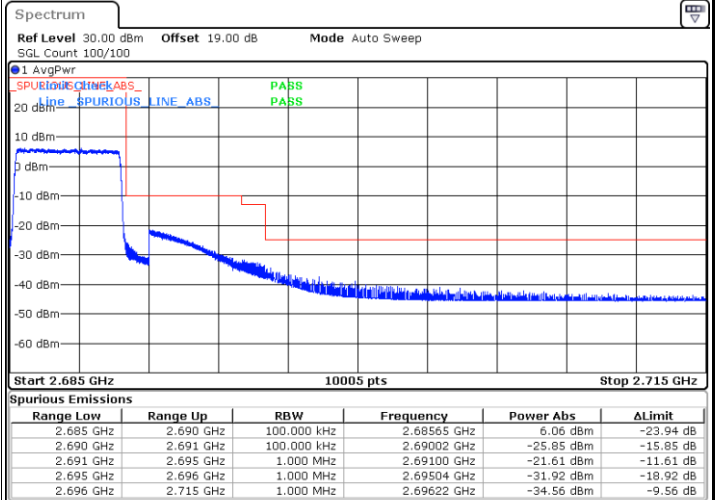
Date: 4.JAN.2024 01:51:46

Lowest Band Edge / Full RB



Date: 4.JAN.2024 01:44:54

Highest Band Edge / Full RB

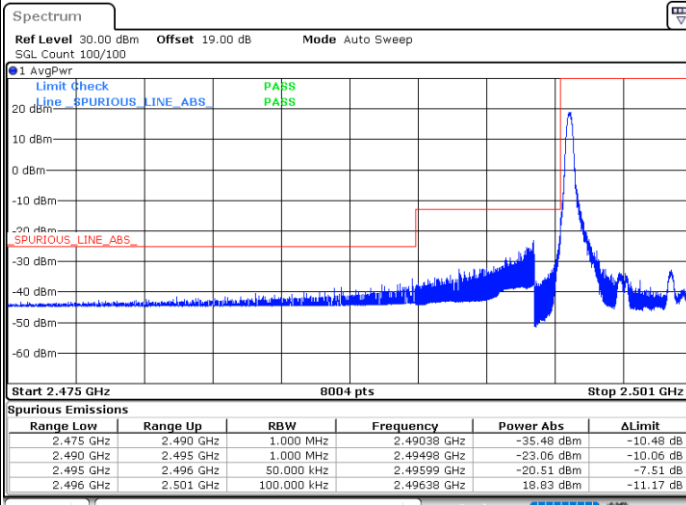


Date: 4.JAN.2024 01:55:00



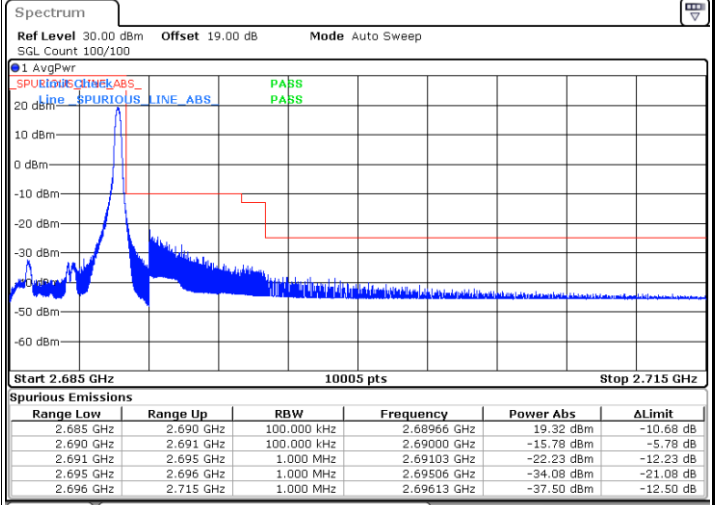
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



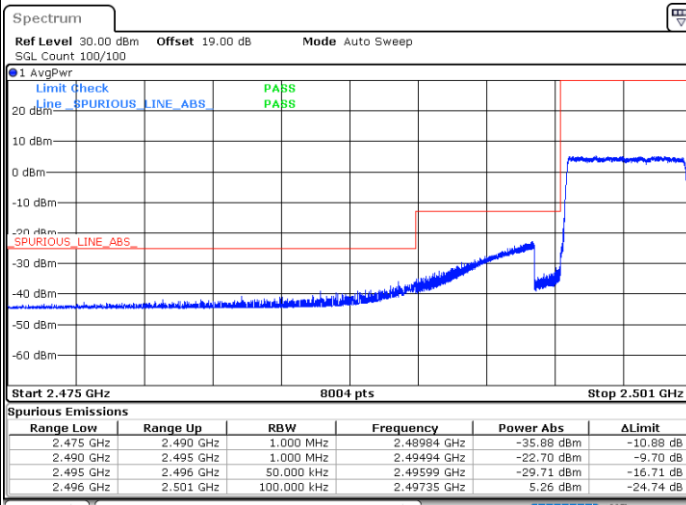
Date: 4.JAN.2024 01:42:49

Highest Band Edge / 1 RB



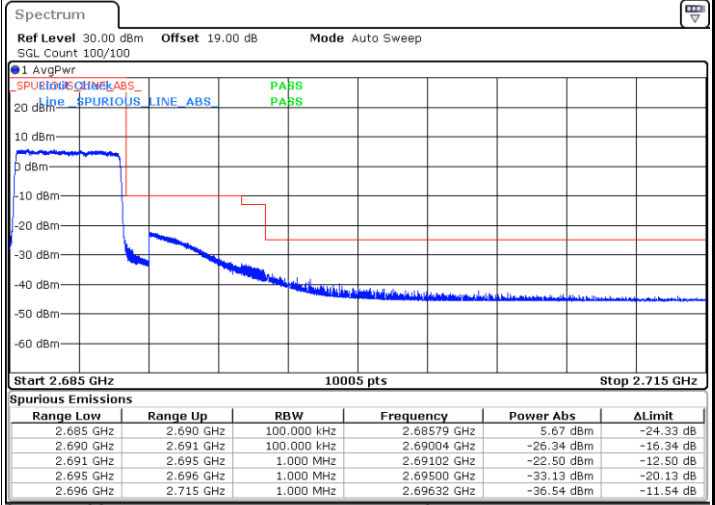
Date: 4.JAN.2024 01:52:51

Lowest Band Edge / Full RB



Date: 4.JAN.2024 01:43:52

Highest Band Edge / Full RB

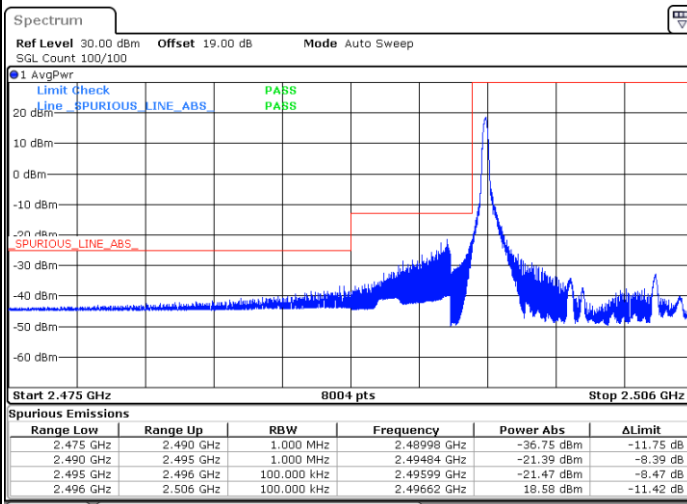


Date: 4.JAN.2024 01:53:55



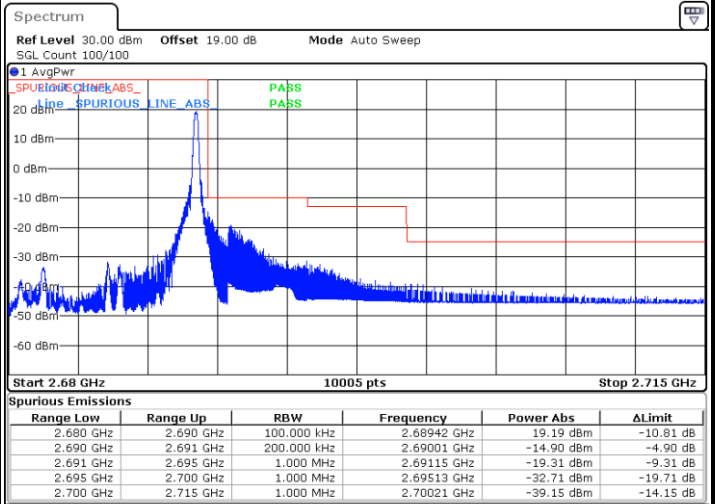
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



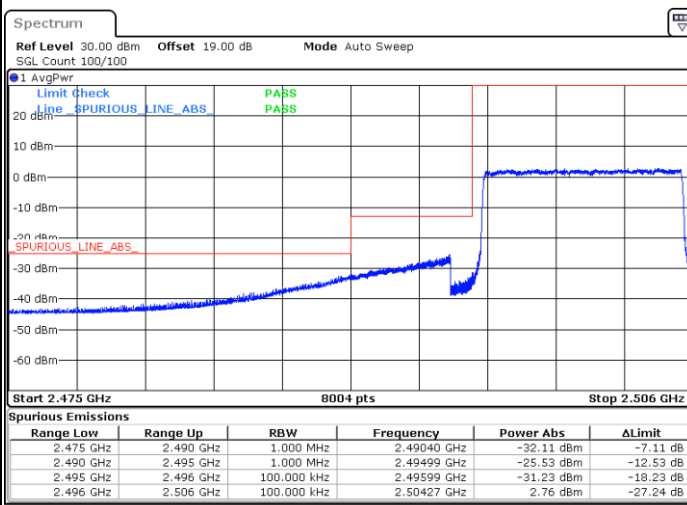
Date: 4.JAN.2024 01:59:03

Highest Band Edge / 1 RB



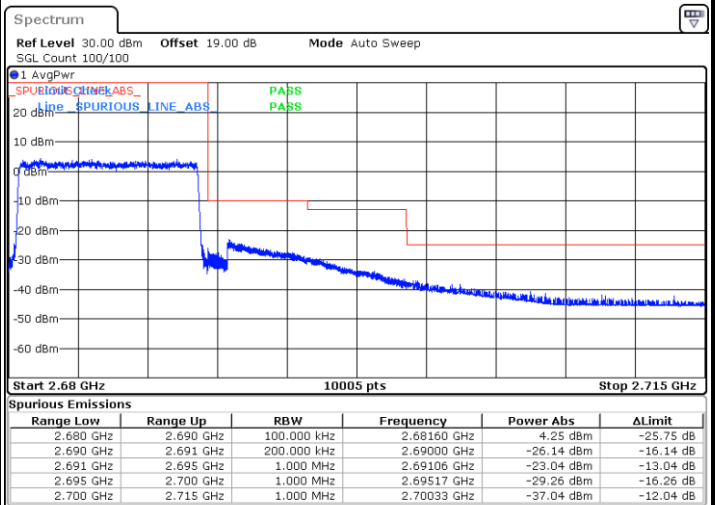
Date: 4.JAN.2024 02:42:24

Lowest Band Edge / Full RB



Date: 4.JAN.2024 02:04:13

Highest Band Edge / Full RB

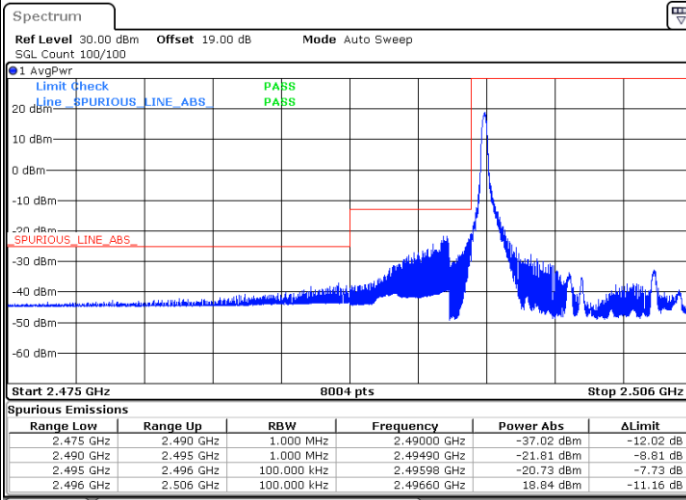


Date: 4.JAN.2024 02:47:33



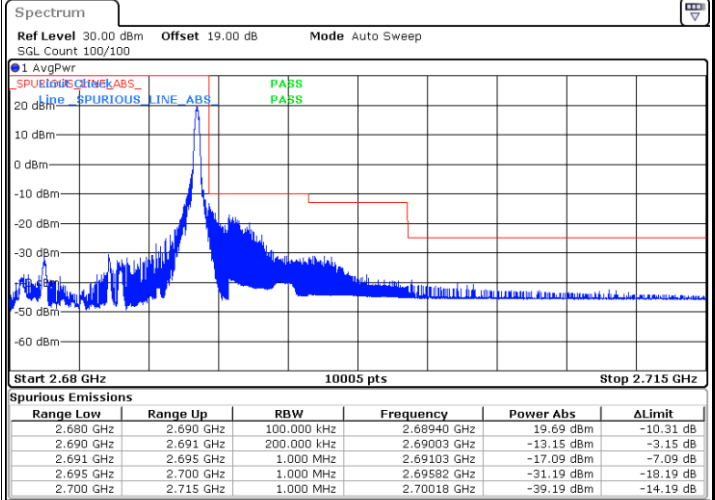
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1RB



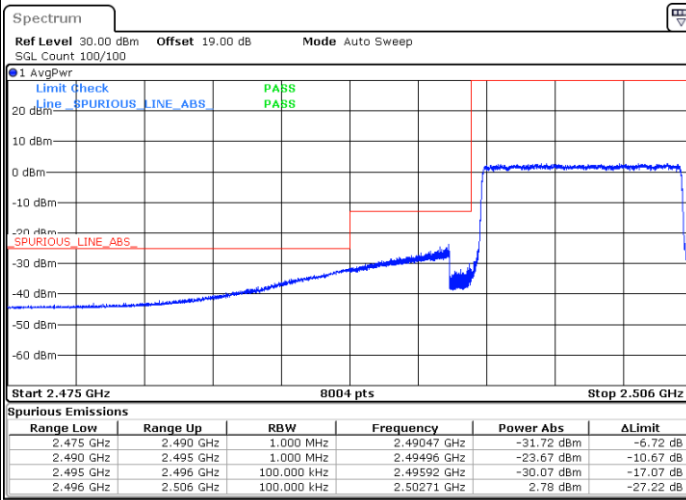
Date: 4.JAN.2024 02:00:05

Highest Band Edge / 1 RB



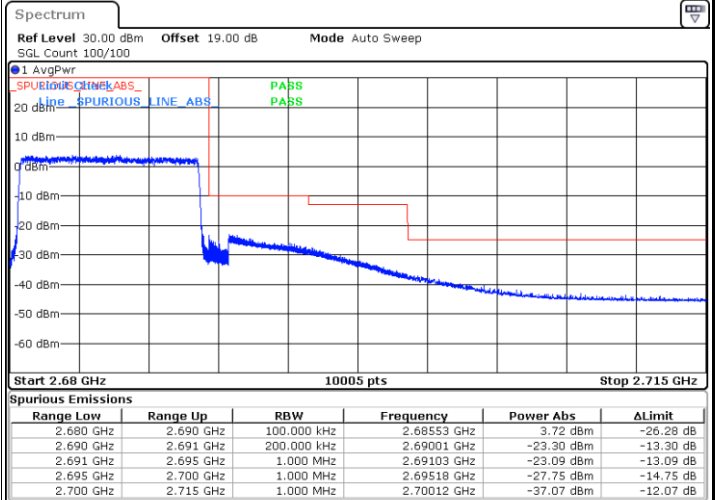
Date: 4.JAN.2024 02:43:26

Lowest Band Edge / Full RB



Date: 4.JAN.2024 02:03:11

Highest Band Edge / Full RB

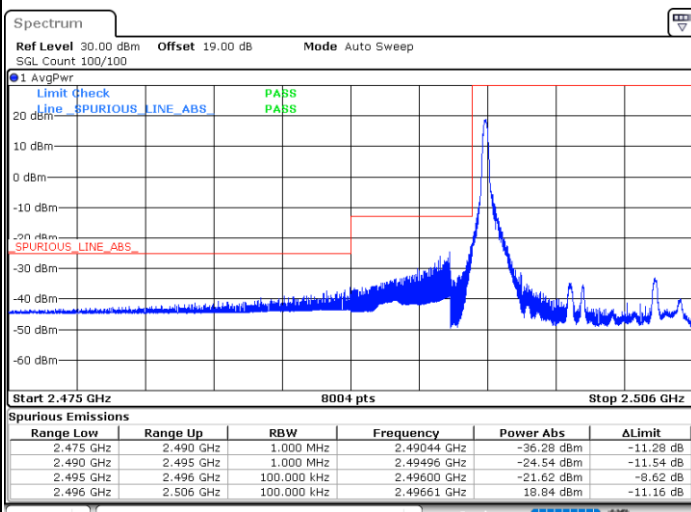


Date: 4.JAN.2024 02:46:31



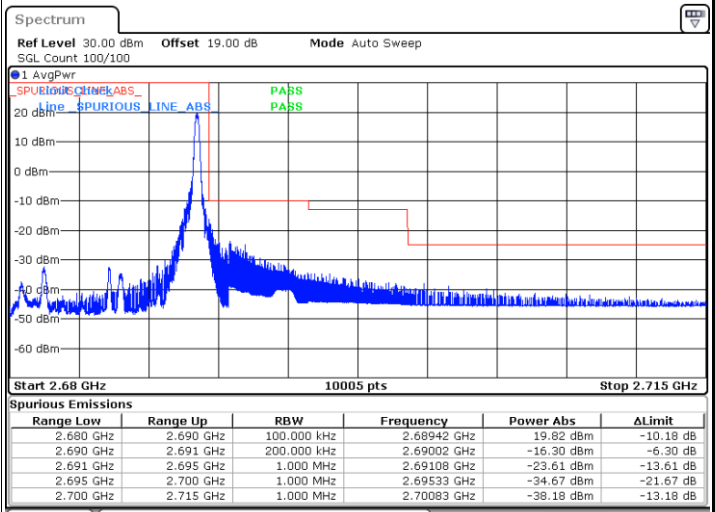
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1RB



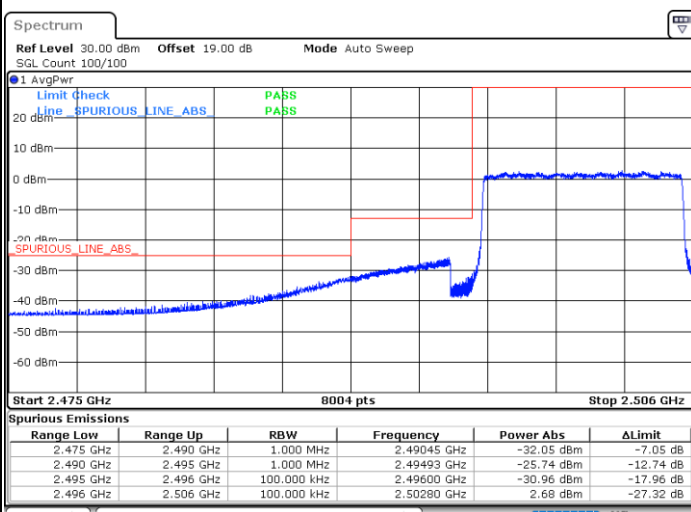
Date: 4.JAN.2024 02:01:07

Highest Band Edge / 1 RB



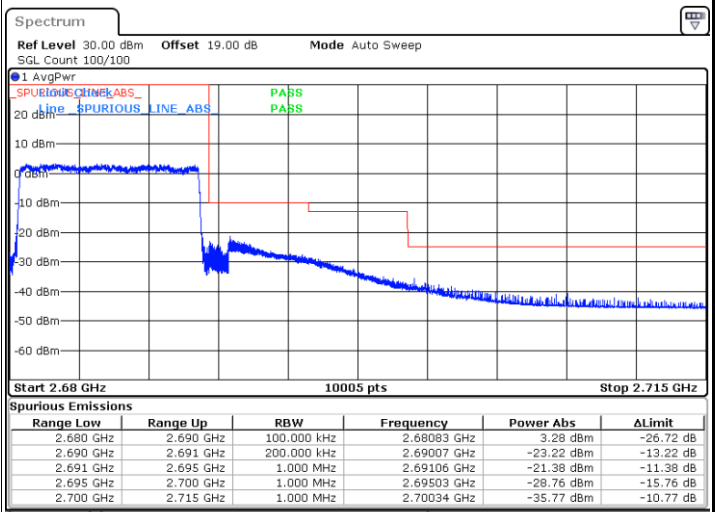
Date: 4.JAN.2024 02:44:28

Lowest Band Edge / Full RB



Date: 4.JAN.2024 02:02:09

Highest Band Edge / Full RB



Date: 4.JAN.2024 02:45:30