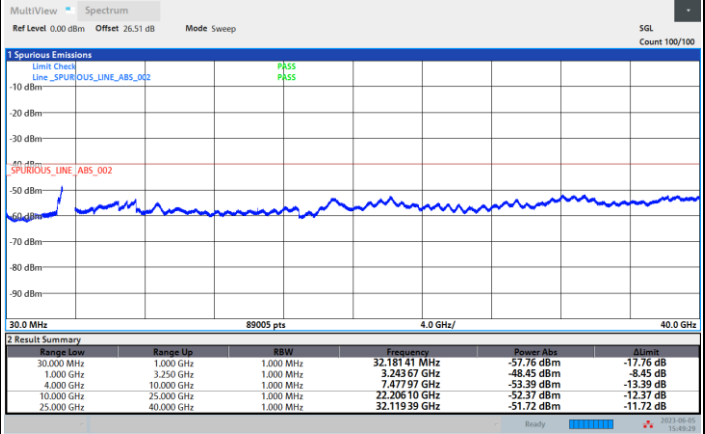
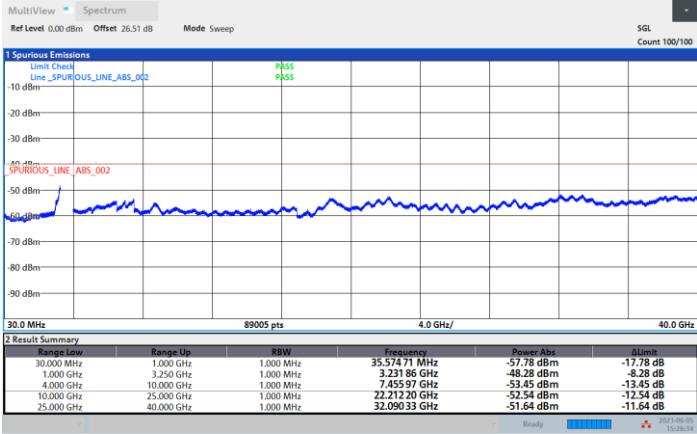




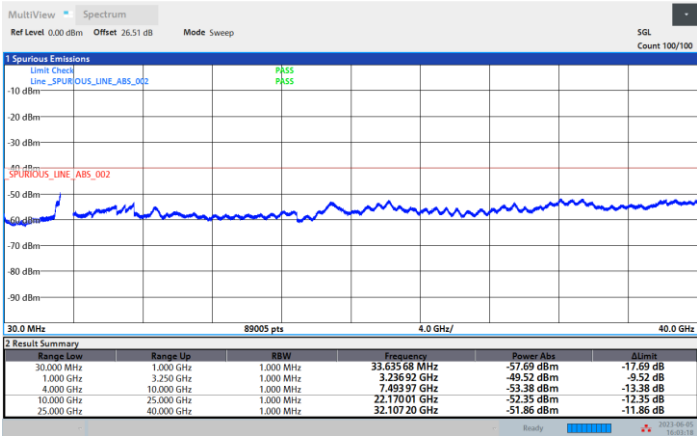
LTE B48 / 10MHz / 64QAM / CSE

Lowest Channel

Middle Channel



Highest Channel

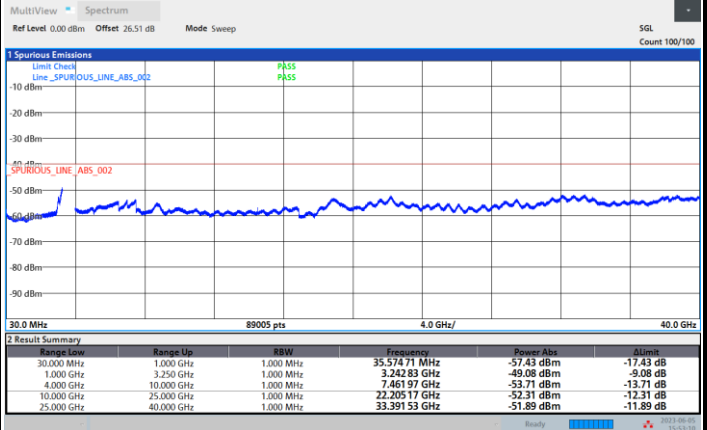
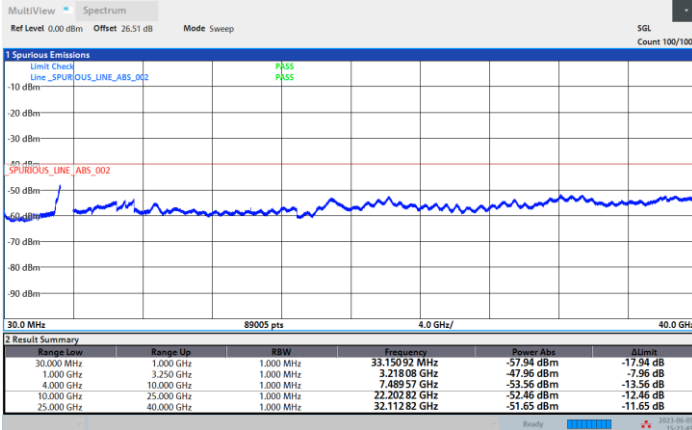




LTE B48 / 10MHz / 256QAM / CSE

Lowest Channel

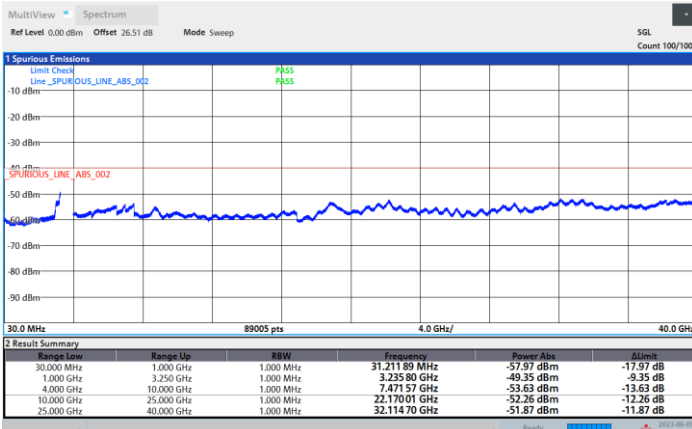
Middle Channel



03:21:46 PM 06/05/2023

03:53:11 PM 06/05/2023

Highest Channel



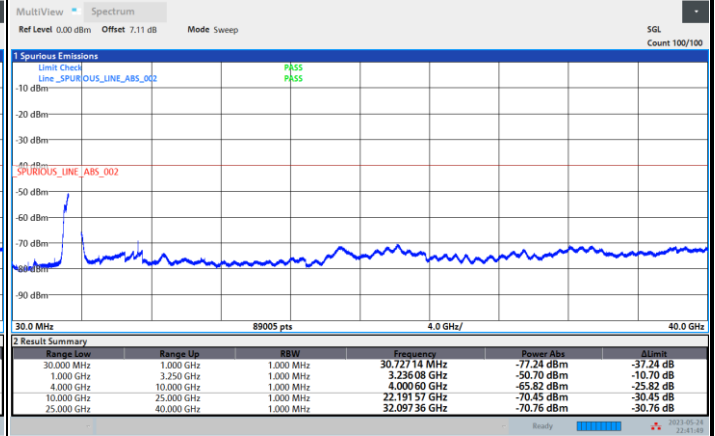
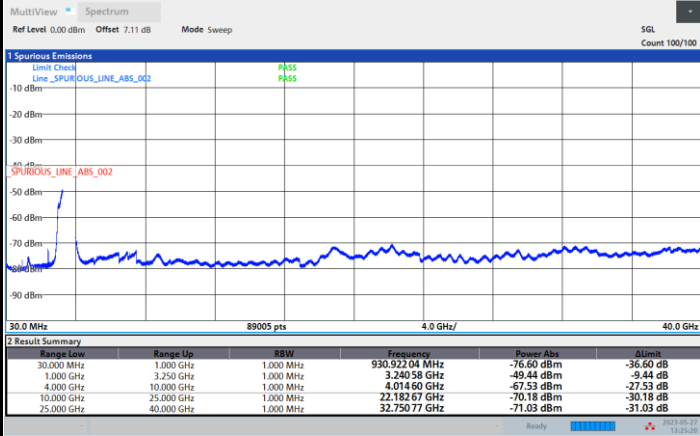
04:06:35 PM 06/05/2023



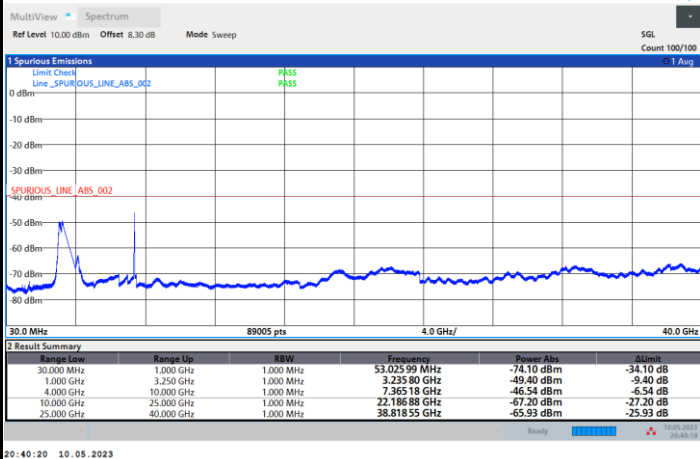
LTE B48 / 20MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

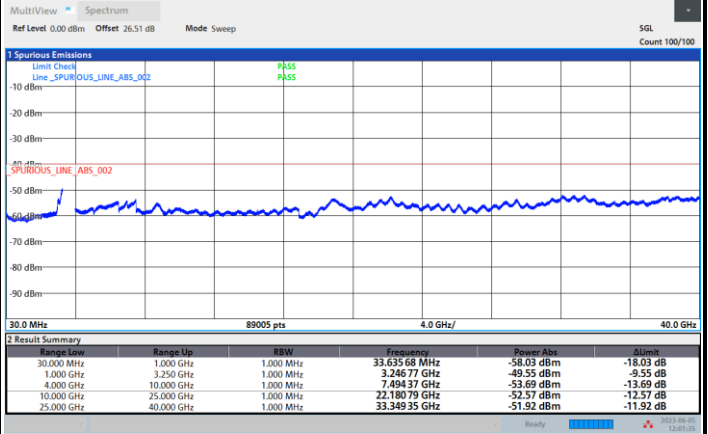
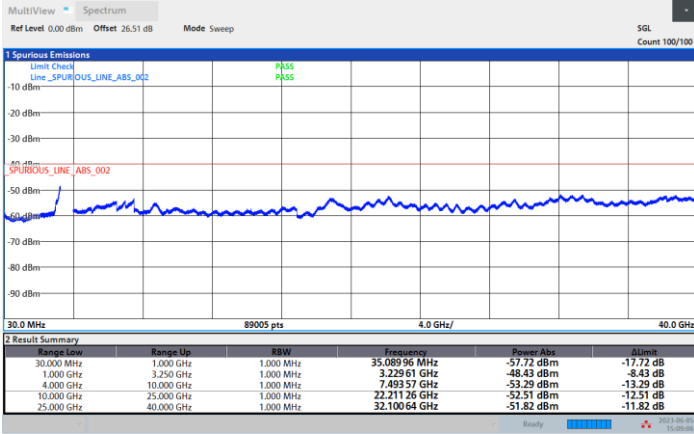




LTE B48 / 20MHz / 16QAM / CSE

Lowest Channel

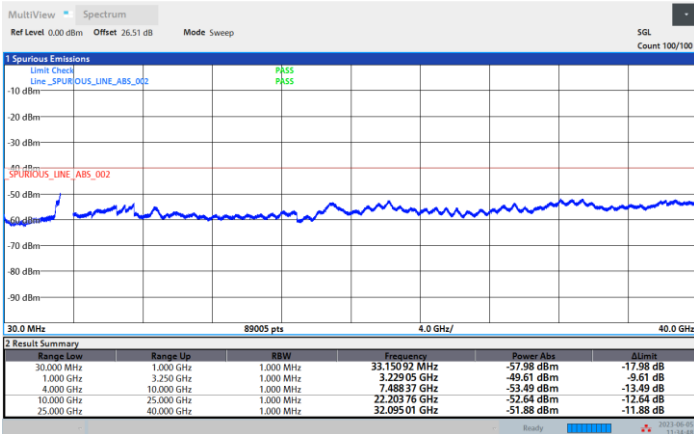
Middle Channel



03:09:06 PM 06/05/2023

12:01:35 PM 06/05/2023

Highest Channel



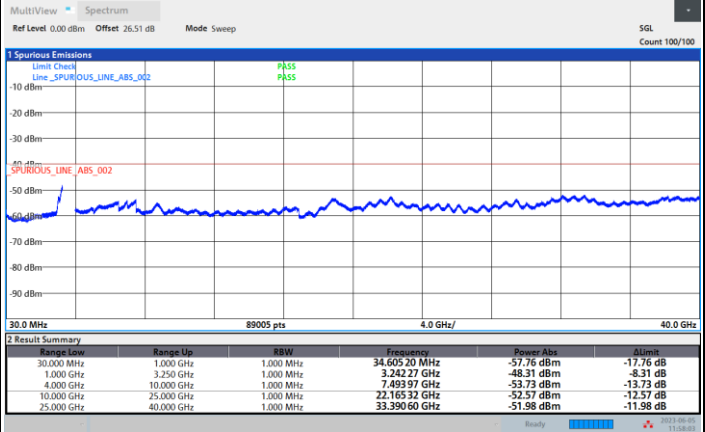
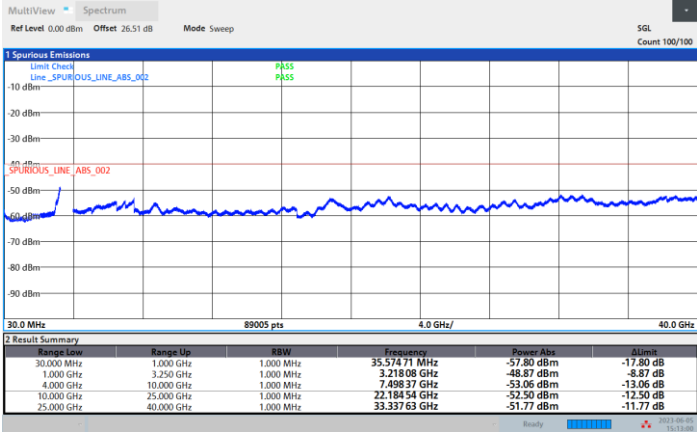
11:34:49 AM 06/05/2023



LTE B48 / 20MHz / 64QAM / CSE

Lowest Channel

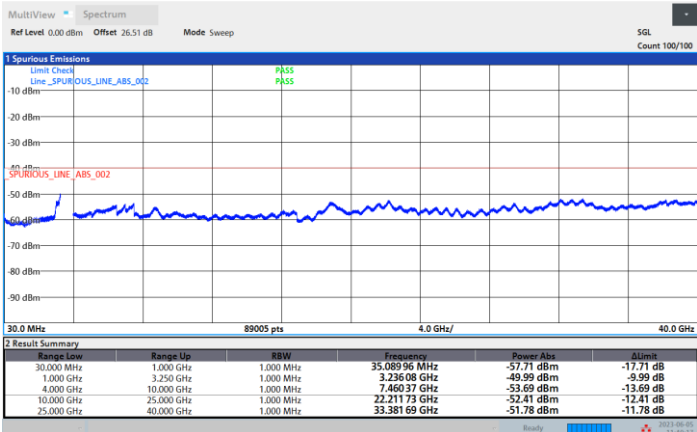
Middle Channel



03:13:01 PM 06/05/2023

11:58:04 AM 06/05/2023

Highest Channel



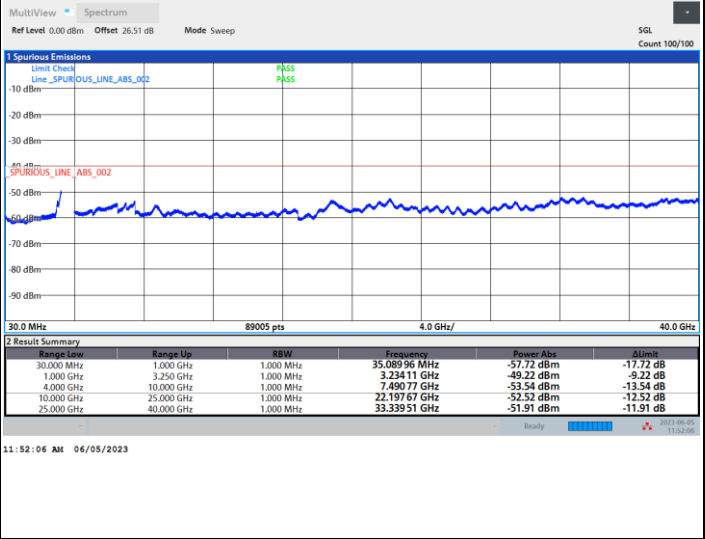
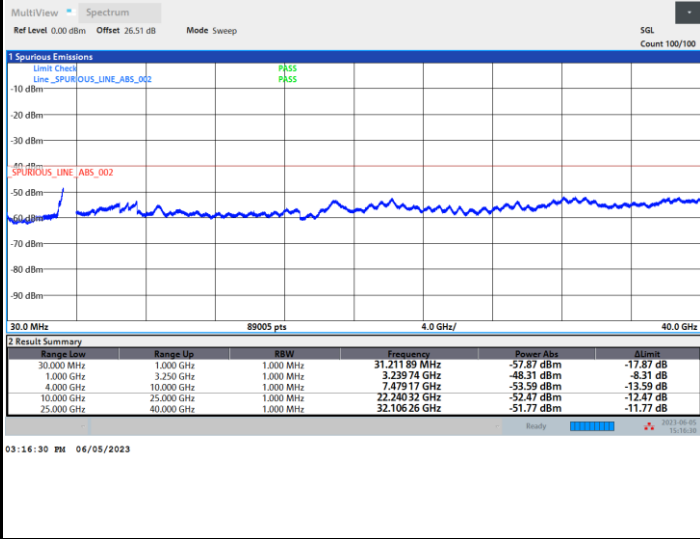
11:40:17 AM 06/05/2023



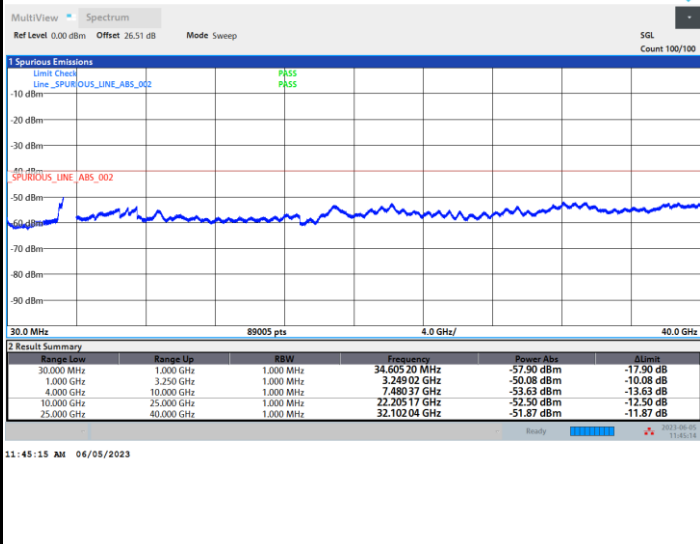
LTE B48 / 20MHz / 256QAM / CSE

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

Test Conditions		LTE B48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Frequency offset (ppm)	Result
50	Normal Voltage	1.6000	PASS
40	Normal Voltage	1.8207	
30	Normal Voltage	1.2138	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	2.1517	
0	Normal Voltage	2.1517	
-10	Normal Voltage	0.4414	
-20	Normal Voltage	0.8276	
-30	Normal Voltage	0.4966	
20	Maximum Voltage	0.7724	
20	Normal Voltage	1.1034	
20	Minimum Voltage	0.3310	

Note:

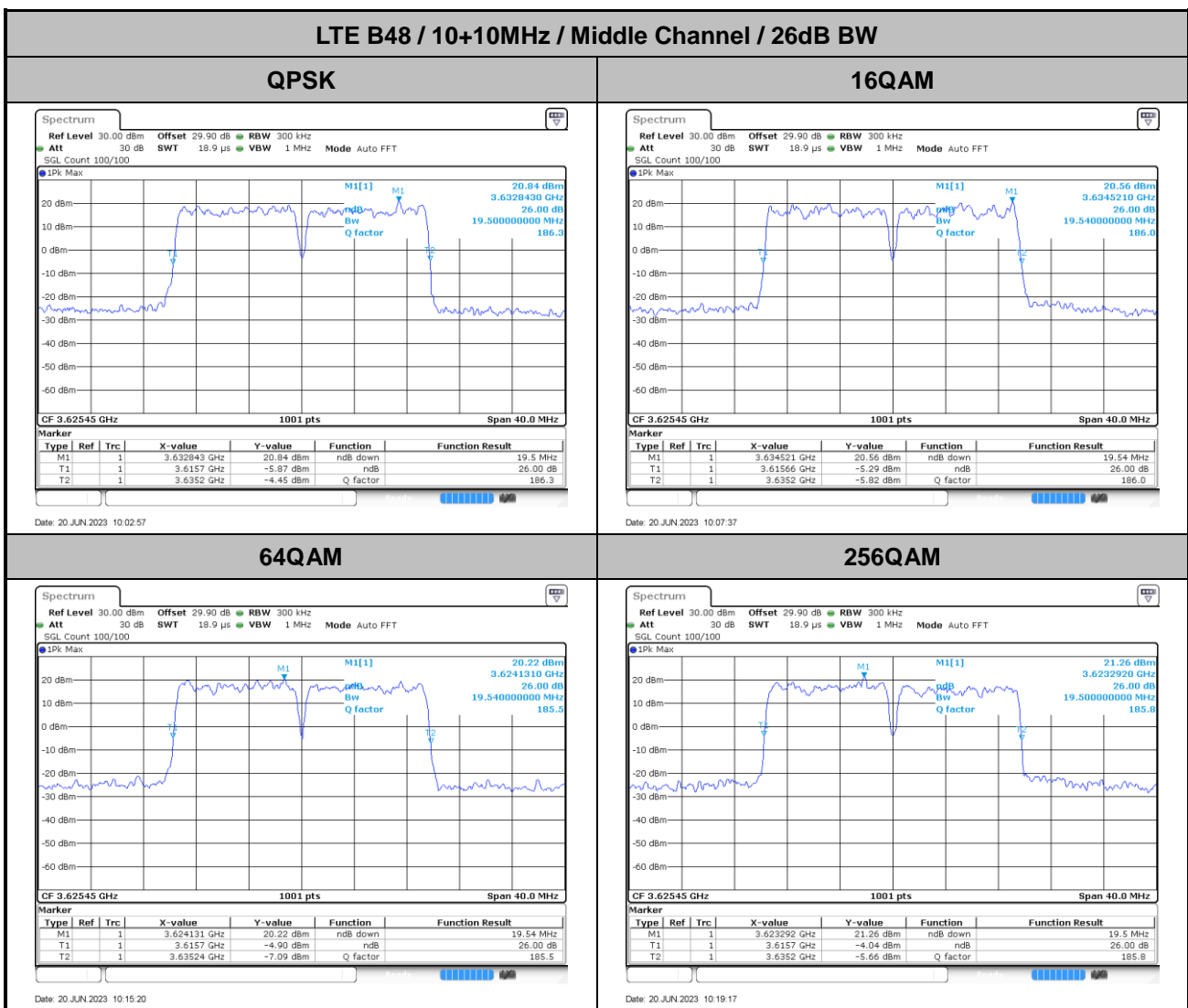
1. Normal Voltage = 48 V. ; Minimum Voltage = 43.2 V. ; Maximum Voltage = 57 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



MIMO <Ant. 0+1> + MIMO <Ant. 2+3>

26dB Bandwidth

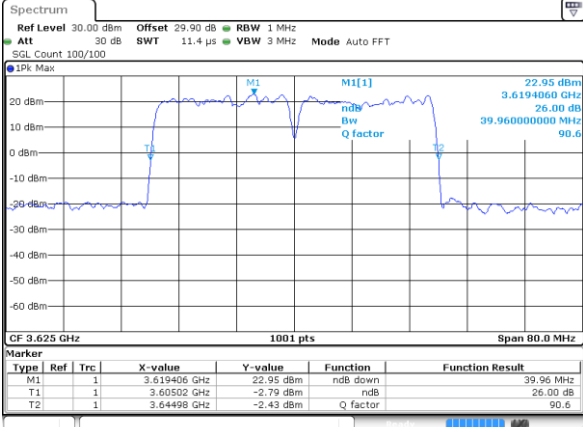
Mode	LTE B48 : 26dB BW(MHz)							
BW	10+10MHz		20+20MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	19.50	19.54	39.96	39.96				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	19.54	19.50	39.88	39.80				





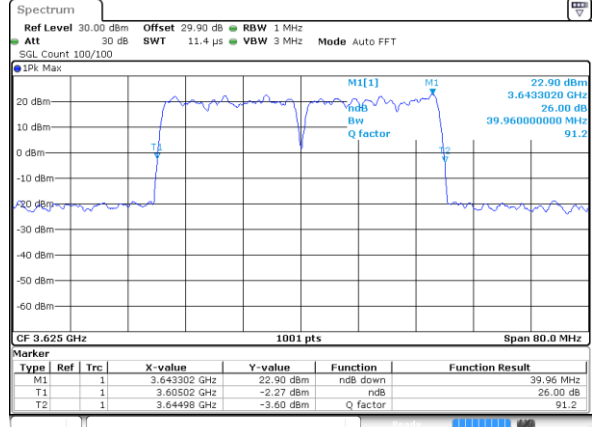
LTE B48 / 20+20MHz / Middle Channel / 26dB BW

QPSK



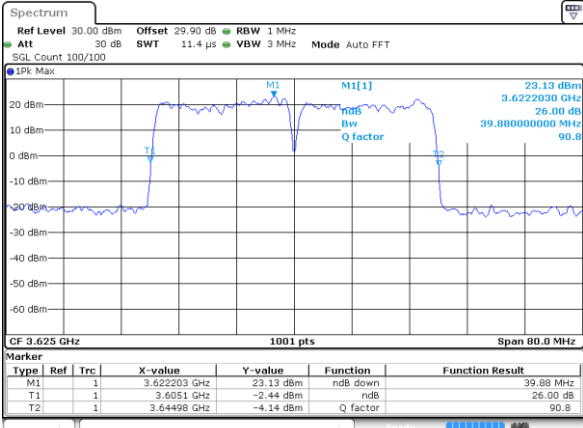
Date: 13 JUN 2023 16:06:11

16QAM



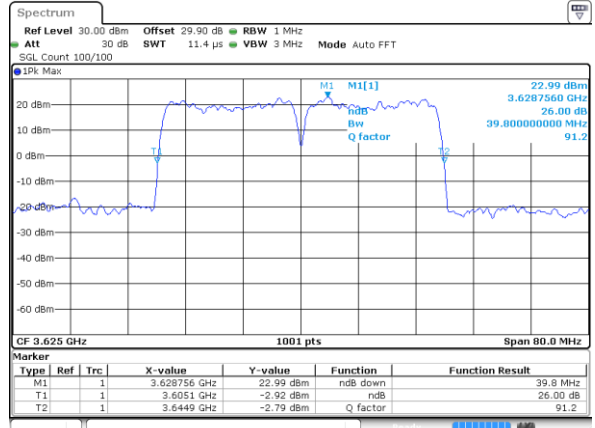
Date: 13 JUN 2023 16:12:40

64QAM



Date: 13 JUN 2023 16:40:39

256QAM

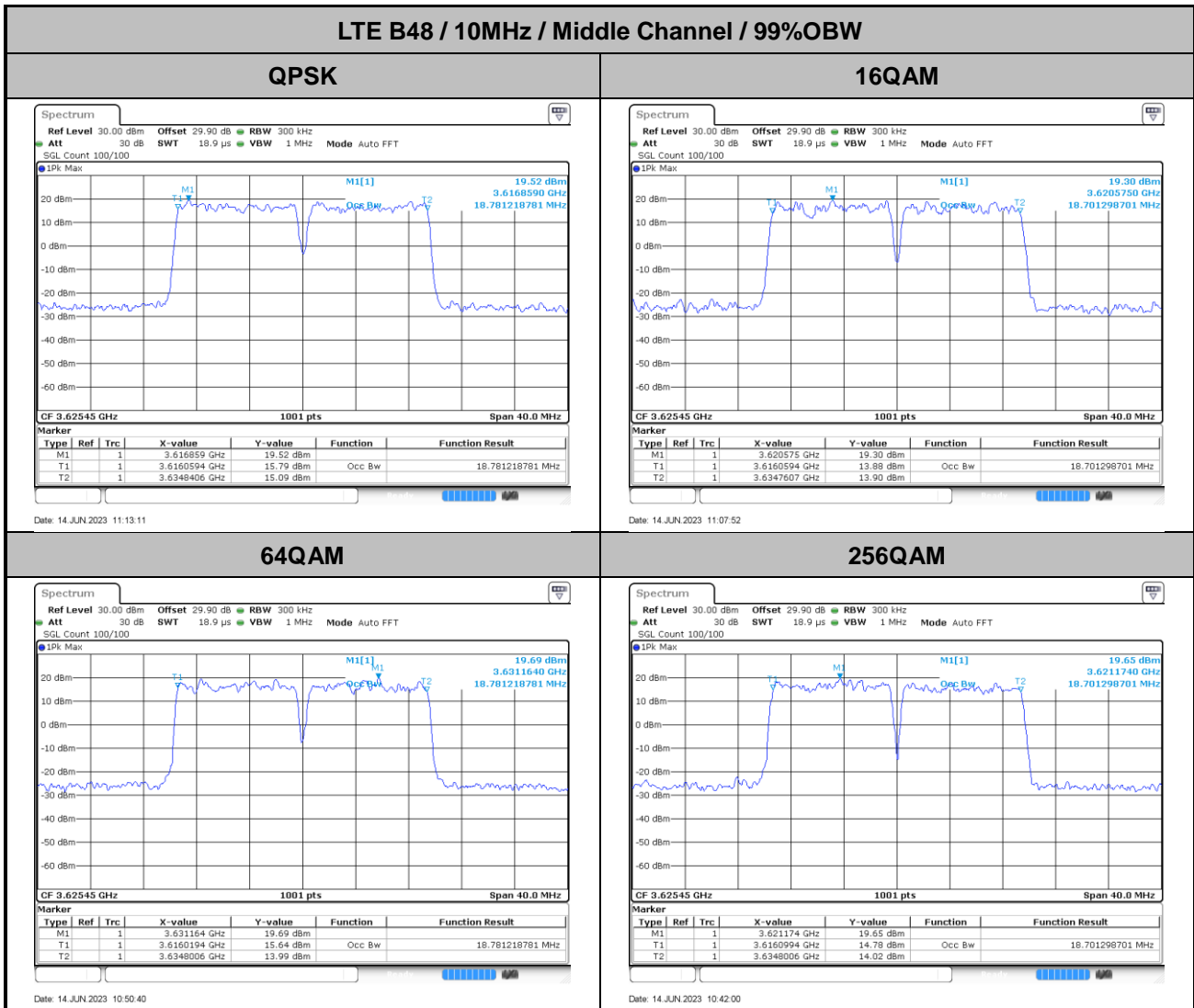


Date: 13 JUN 2023 16:30:58



Occupied Bandwidth

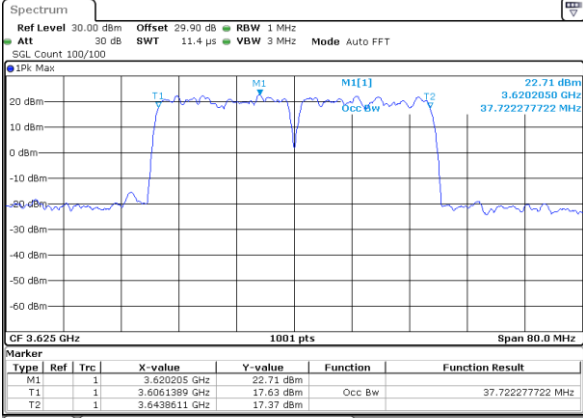
Mode	LTE B48 : 99%OBW (MHz)							
BW	10+10MHz		20+20MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	18.78	18.70	37.72	37.80				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	18.78	18.70	37.72	38.04				





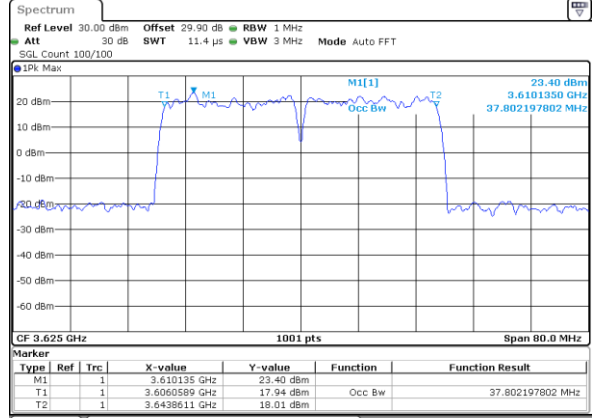
LTE B48 / 20+20MHz / Middle Channel / 99%OBW

QPSK



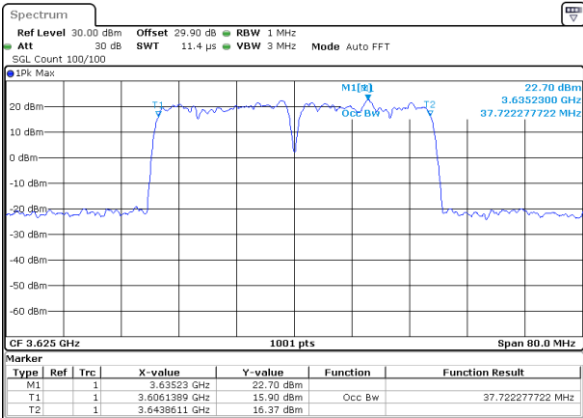
Date: 13 JUN 2023 16:06:01

16QAM



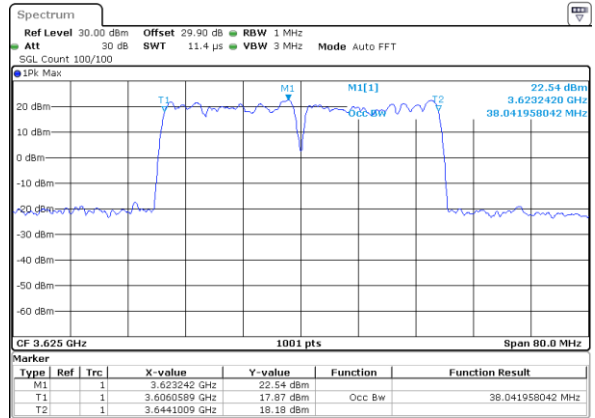
Date: 13 JUN 2023 16:12:31

64QAM



Date: 13 JUN 2023 16:40:30

256QAM



Date: 13 JUN 2023 16:30:46

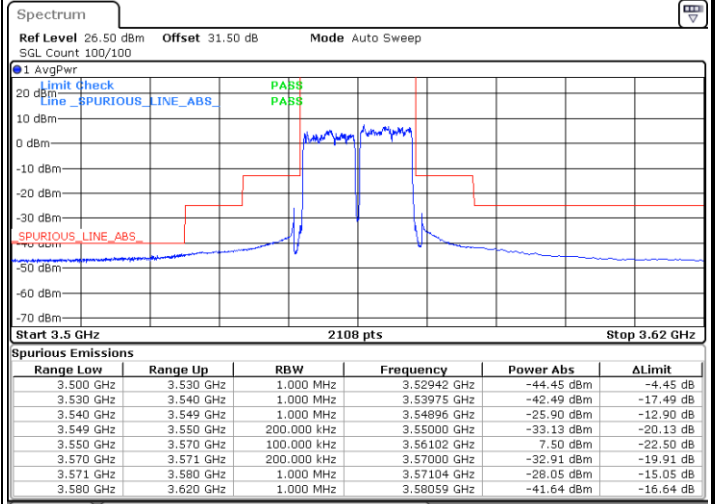
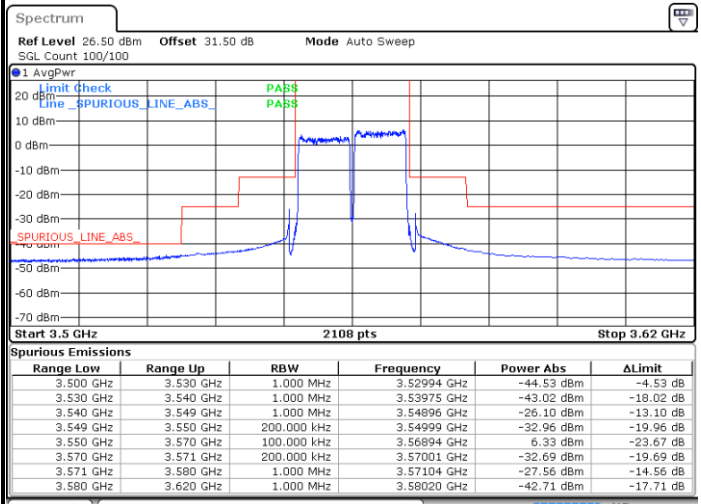


Unwanted Emission (MASK)

LTE B48 / 10+10MHz / Lowest Channel / MASK

QPSK

16QAM

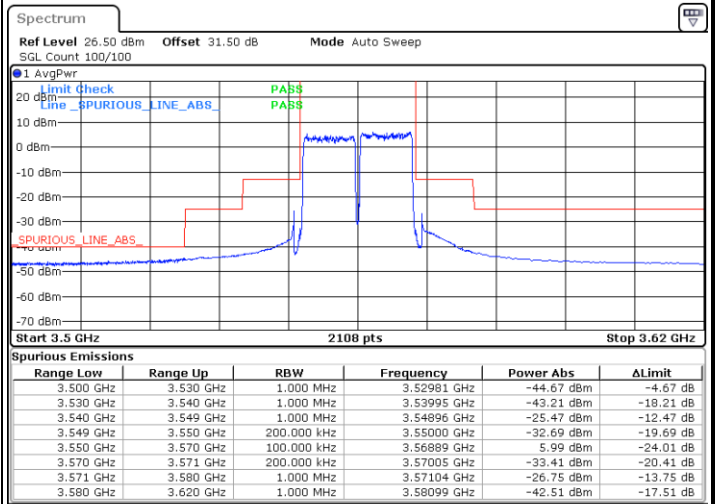
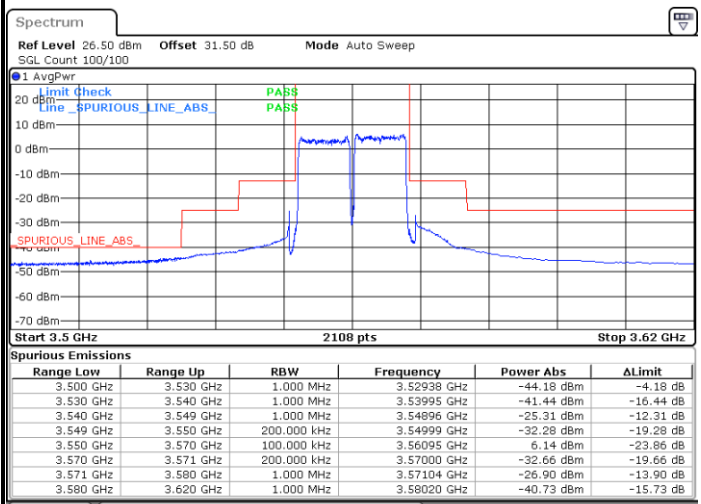


Date: 16 JUN 2023 10:58:07

Date: 16 JUN 2023 11:05:30

64QAM

256QAM



Date: 16 JUN 2023 11:09:33

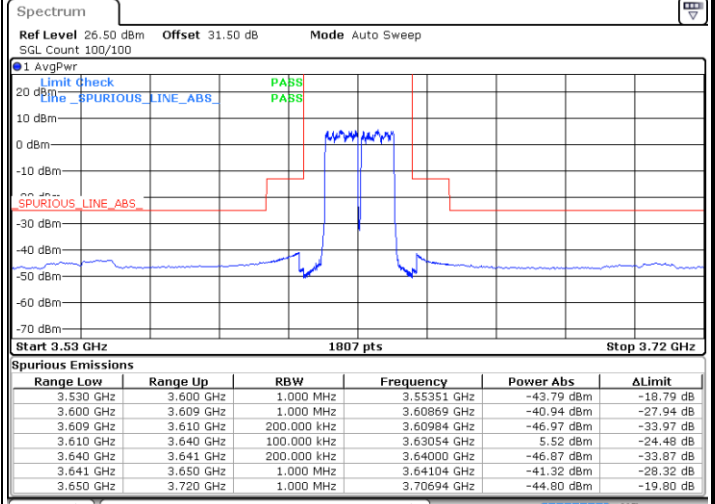
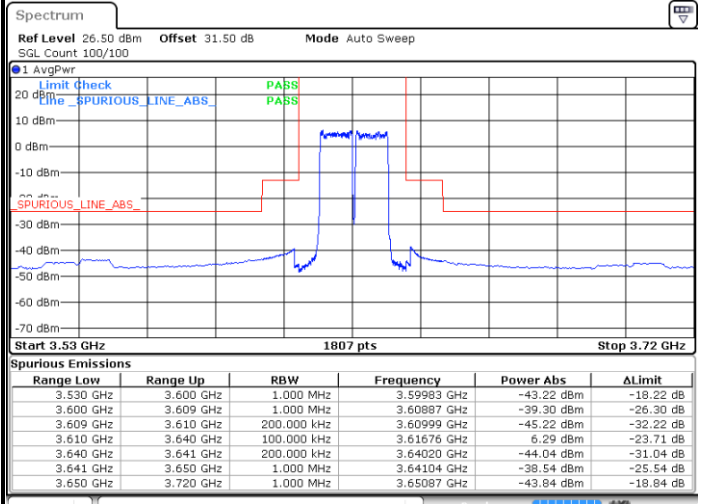
Date: 16 JUN 2023 11:13:18



LTE B48 / 10+10MHz / Middle Channel / MASK

QPSK

16QAM

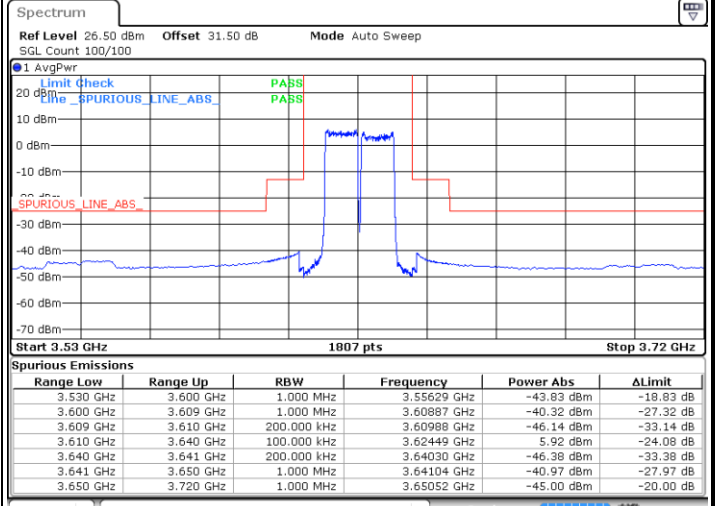
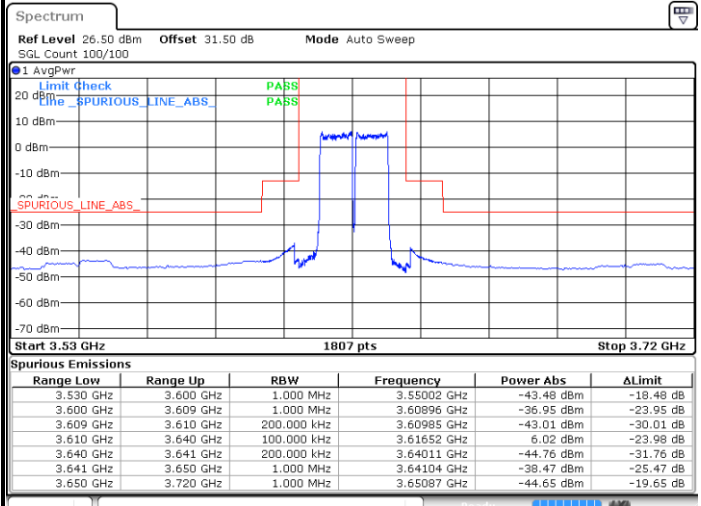


Date: 16 JUN 2023 11:17:10

Date: 16 JUN 2023 11:21:03

64QAM

256QAM



Date: 16 JUN 2023 11:24:37

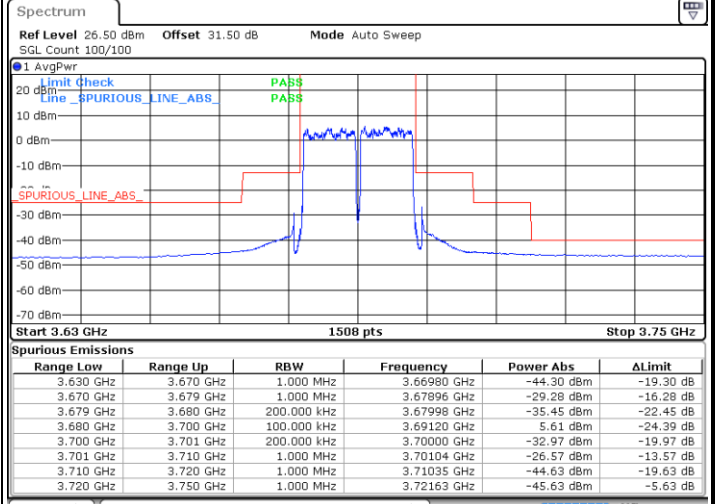
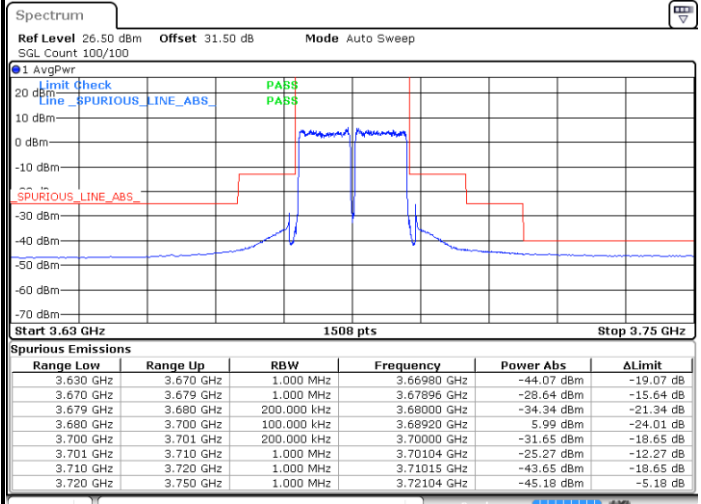
Date: 16 JUN 2023 11:27:43



LTE B48 / 10+10MHz / Highest Channel / MASK

QPSK

16QAM

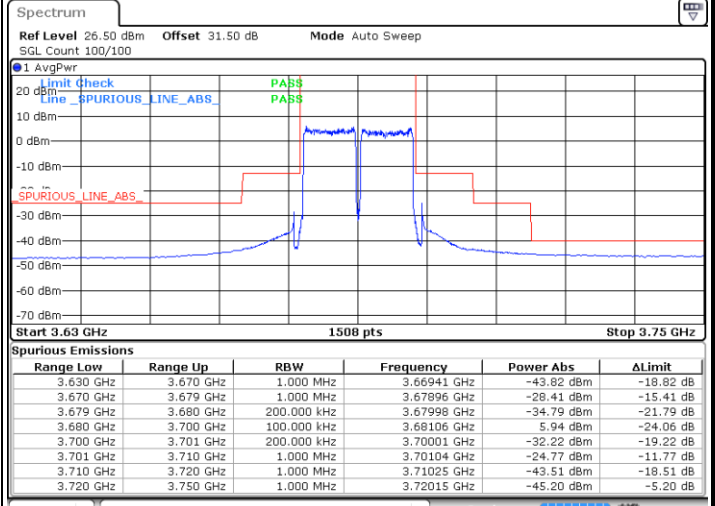
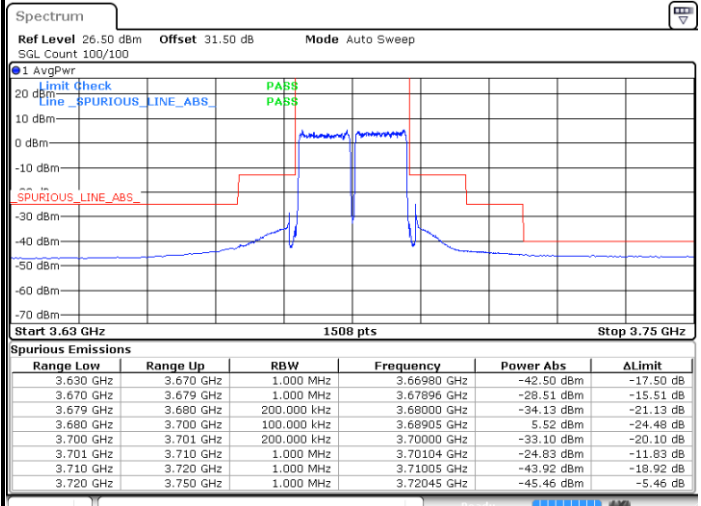


Date: 16 JUN 2023 12:00:01

Date: 16 JUN 2023 11:44:32

64QAM

256QAM



Date: 16 JUN 2023 11:53:41

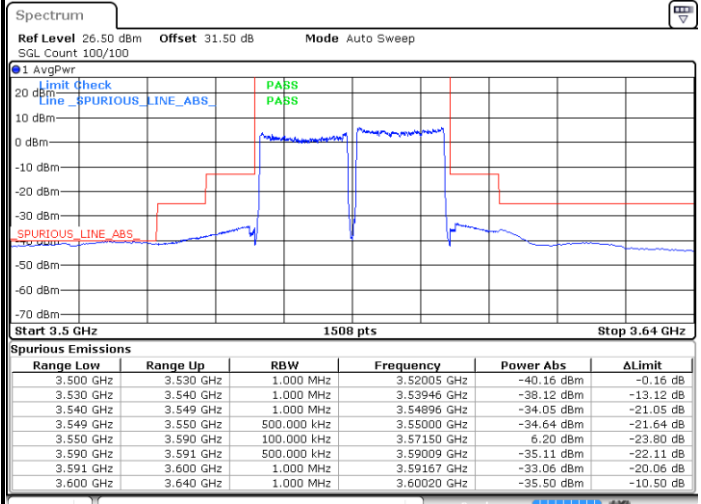
Date: 16 JUN 2023 11:32:10



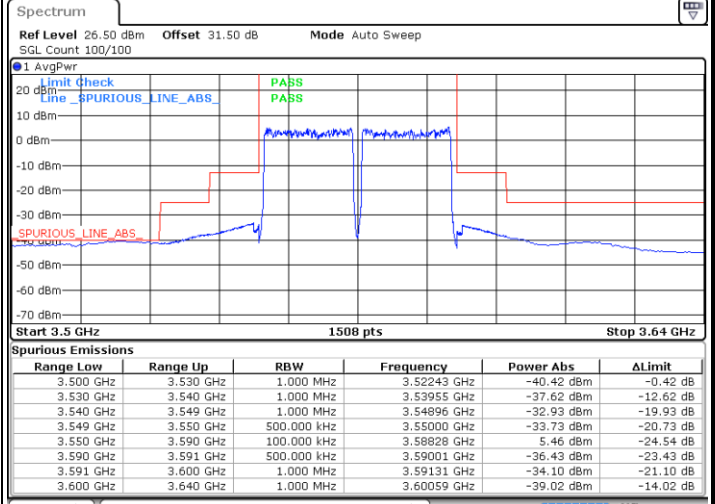
LTE B48 / 20+20MHz / Lowest Channel / MASK

QPSK

16QAM



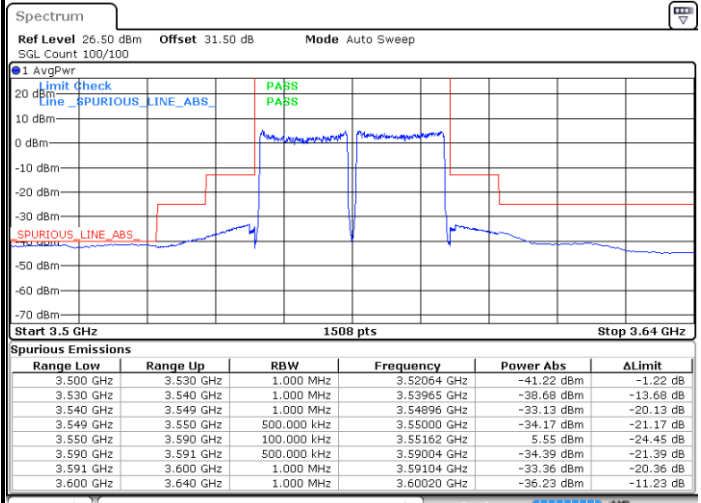
Date: 16 JUN 2023 13:50:27



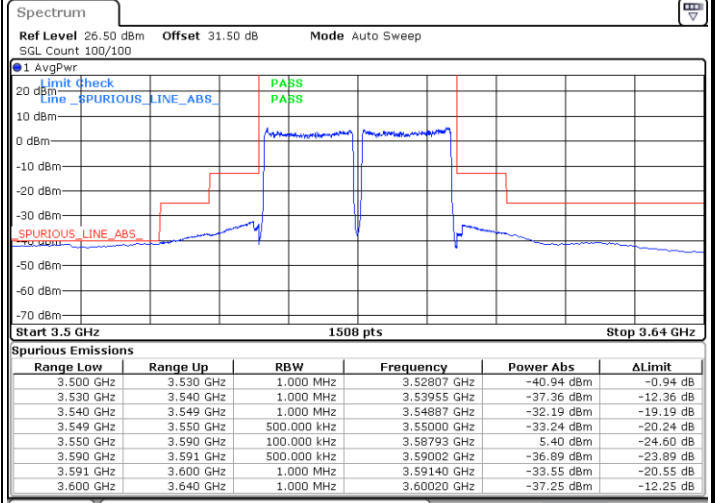
Date: 16 JUN 2023 13:55:54

64QAM

256QAM



Date: 16 JUN 2023 14:16:01



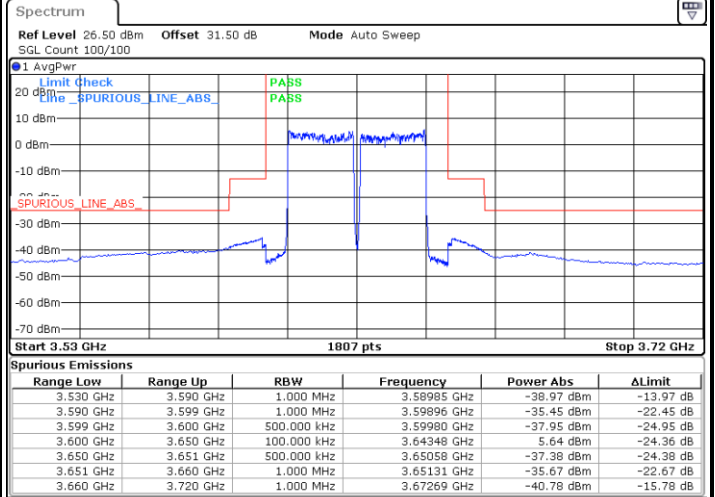
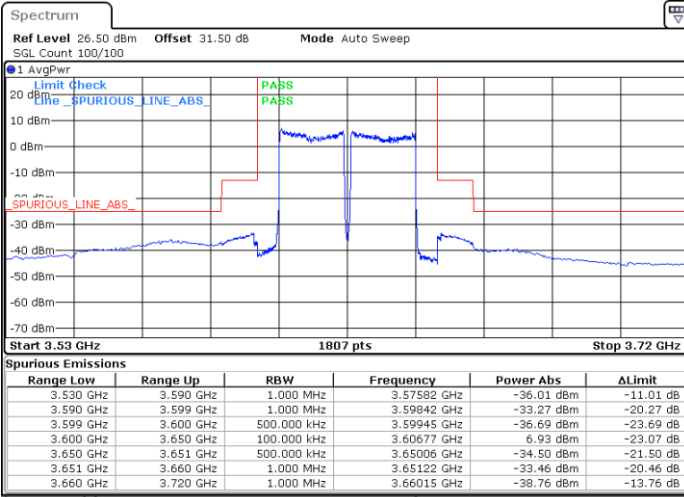
Date: 16 JUN 2023 14:10:16



LTE B48 / 20MHz / Middle Channel / MASK

QPSK

16QAM

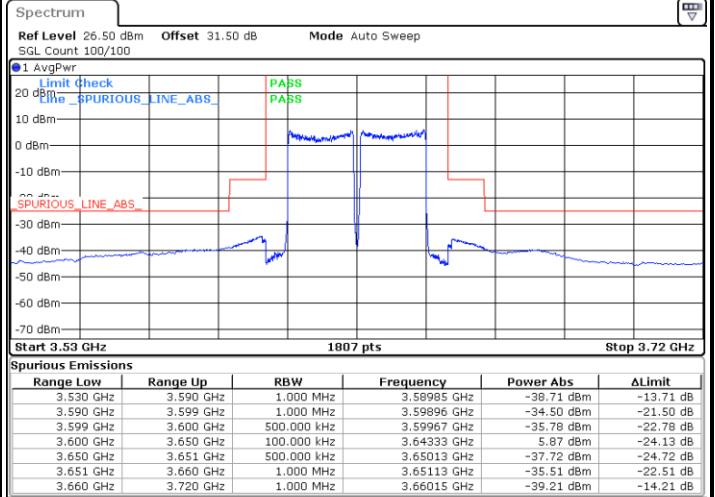
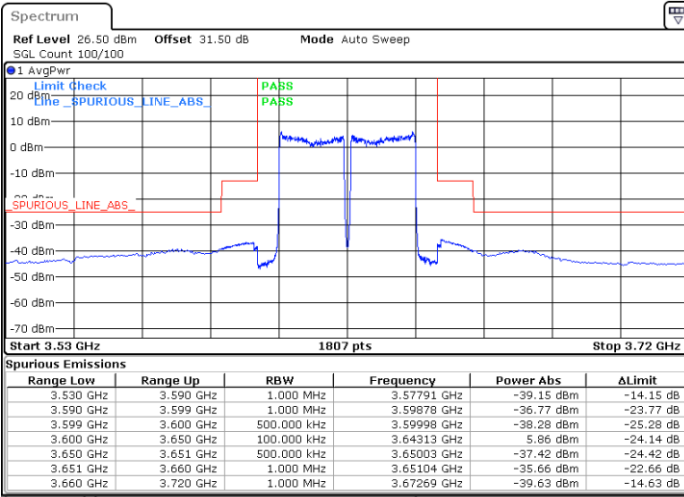


Date: 16 JUN 2023 14:21:25

Date: 16 JUN 2023 14:26:06

64QAM

256QAM



Date: 16 JUN 2023 14:31:06

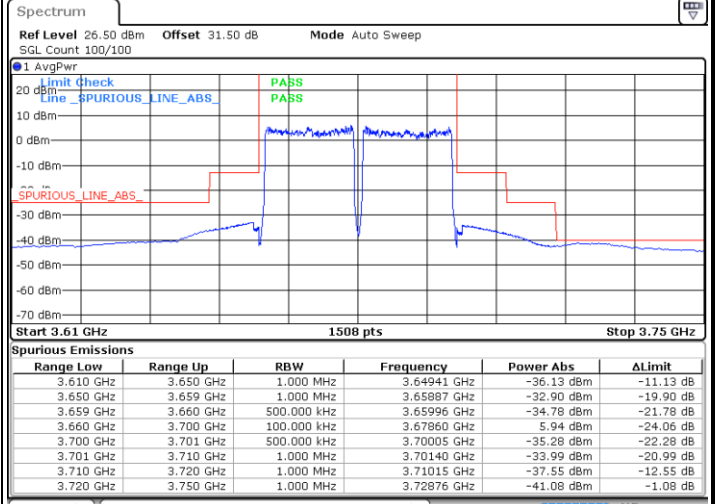
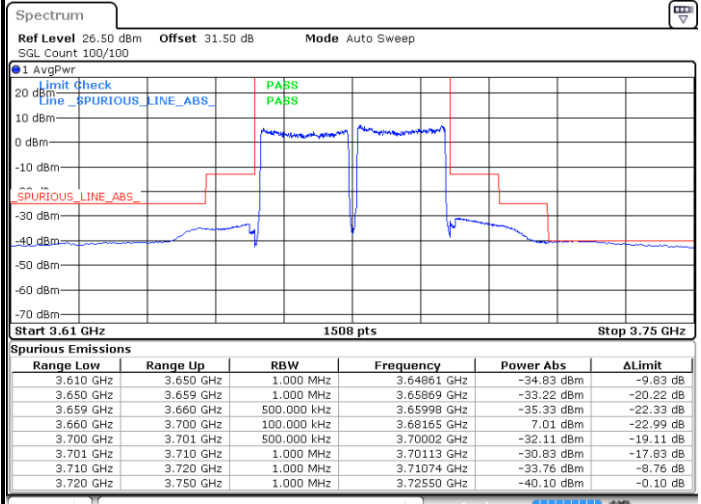
Date: 16 JUN 2023 14:34:51



LTE B48 / 20MHz / Highest Channel / MASK

QPSK

16QAM

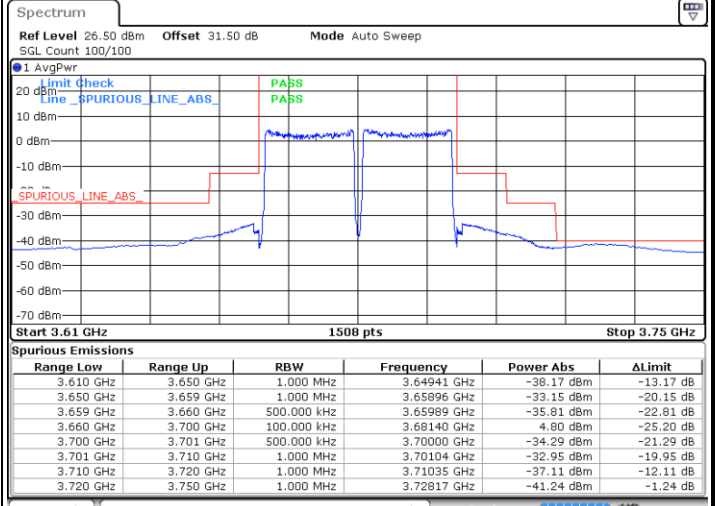
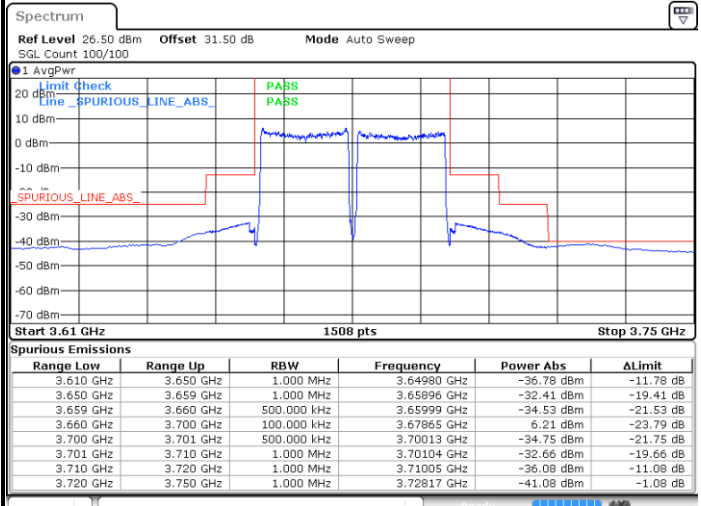


Date: 16 JUN 2023 14:46:28

Date: 16 JUN 2023 14:50:24

64QAM

256QAM



Date: 16 JUN 2023 14:59:34

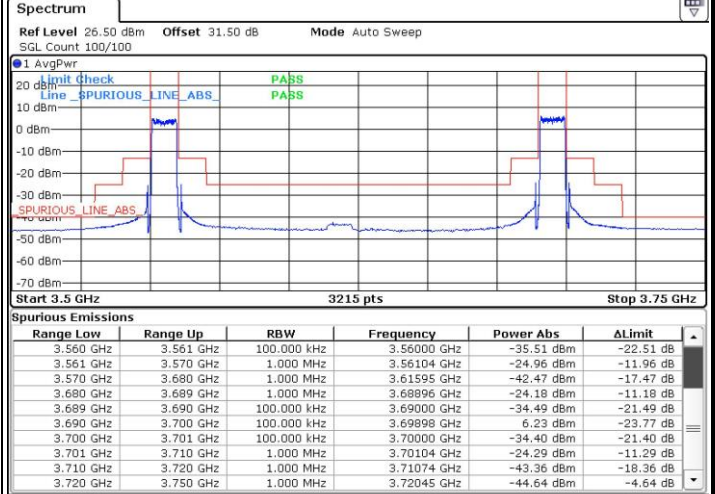
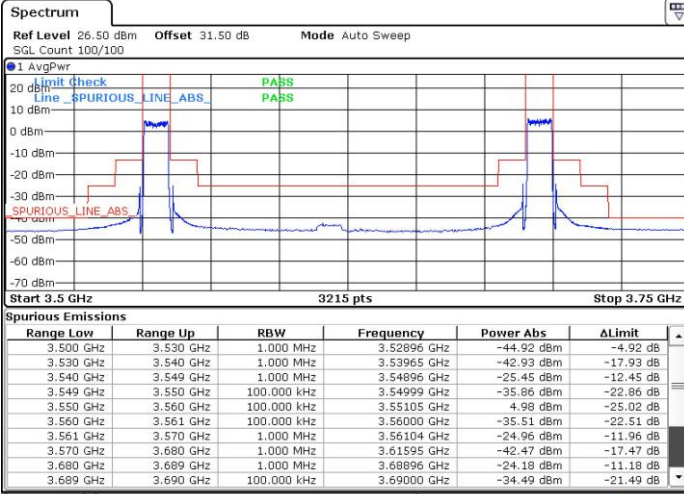
Date: 16 JUN 2023 14:56:03



LTE B48 / 10+10MHz / Lowest& Highest Channel / MASK/ non-contiguous

QPSK-L

QPSK-R

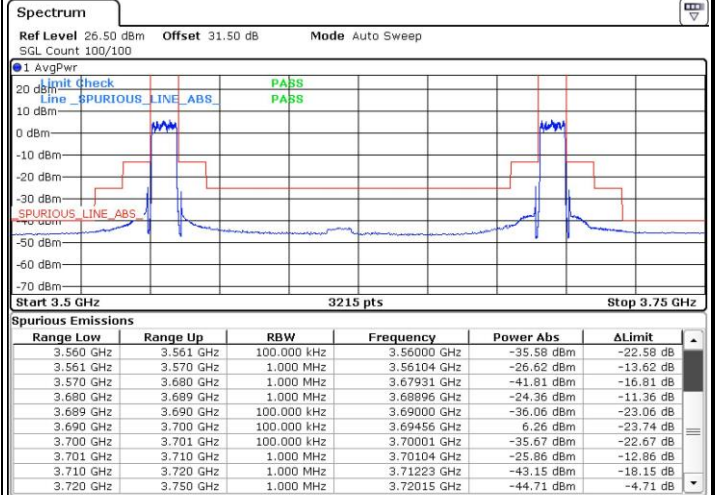
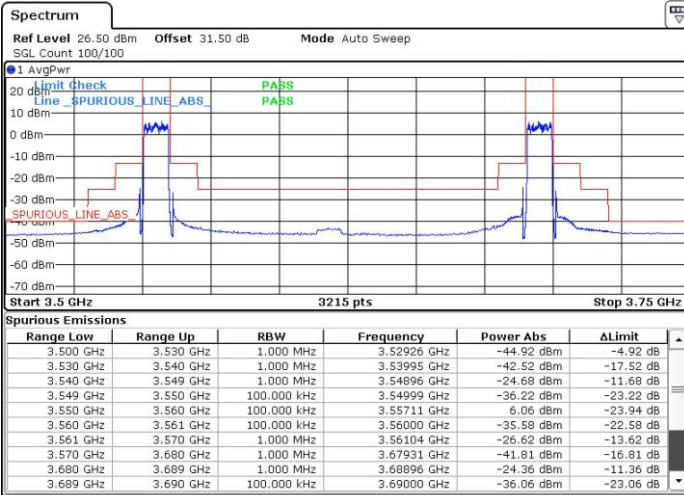


Date: 20 JUN 2023 14:03:46

Date: 20 JUN 2023 14:03:56

16QAM-L

16QAM-R



Date: 20 JUN 2023 14:19:32

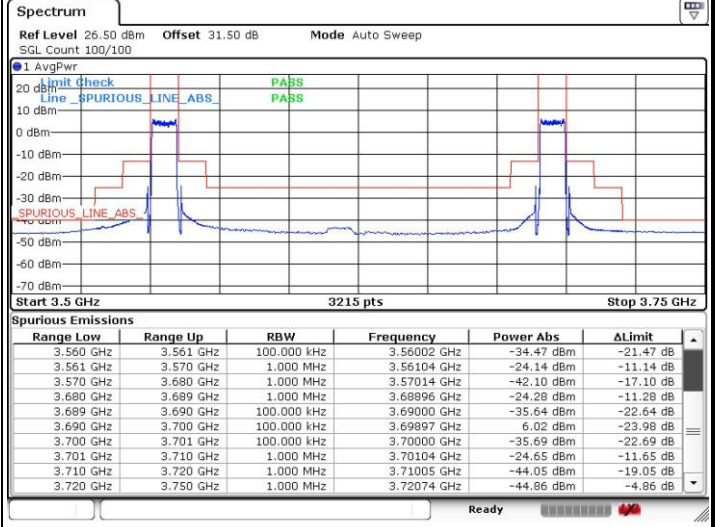
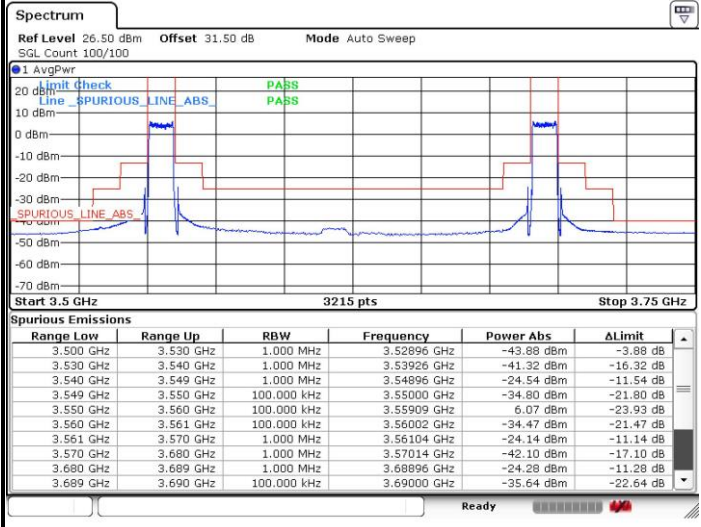
Date: 20 JUN 2023 14:19:44



LTE B48 / 10+10MHz / Lowest& Highest Channel / MASK/ non-contiguous

64QAM-L

64QAM-R

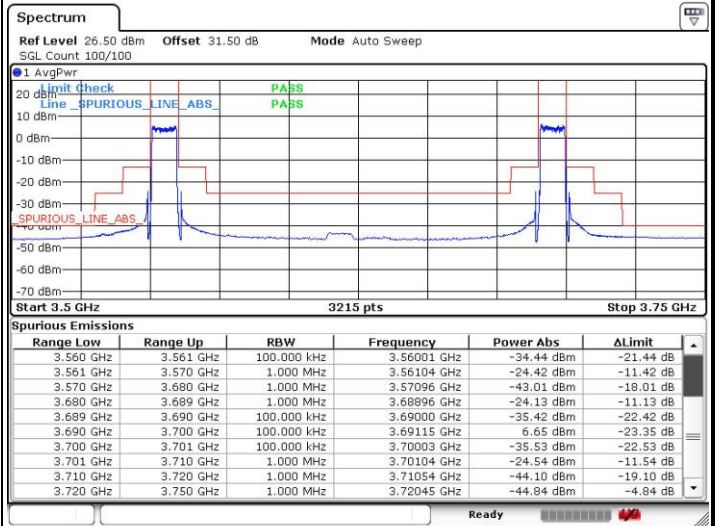
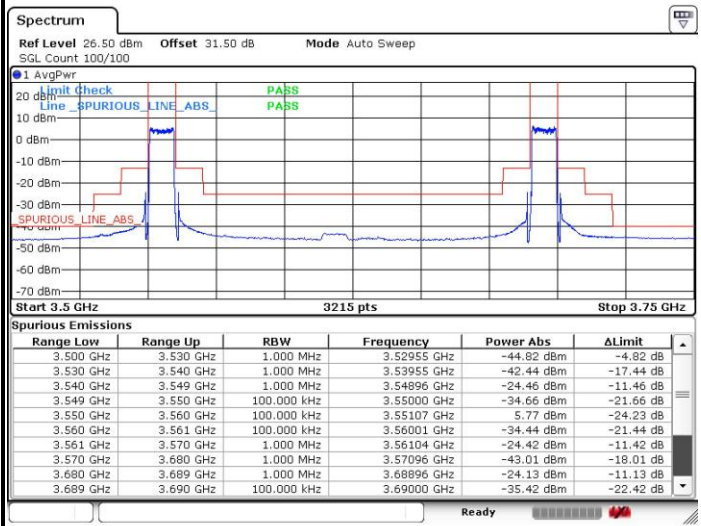


Date: 20 JUN 2023 14:35:36

Date: 20 JUN 2023 14:35:41

256QAM-L

256QAM-R



Date: 20 JUN 2023 14:45:11

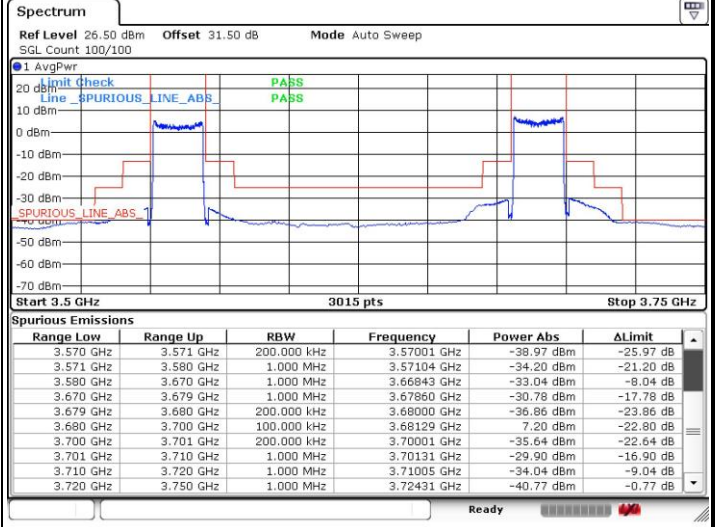
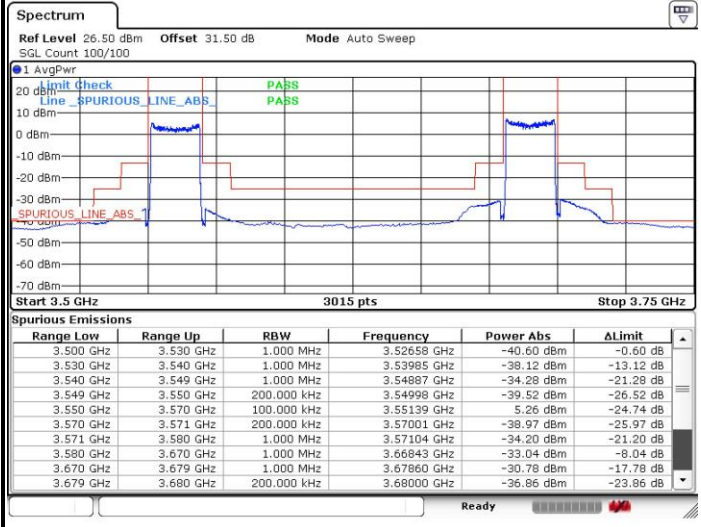
Date: 20 JUN 2023 14:45:20



LTE B48 / 20+20MHz / Lowest& Highest Channel / MASK/ non-contiguous

QPSK-L

QPSK-R

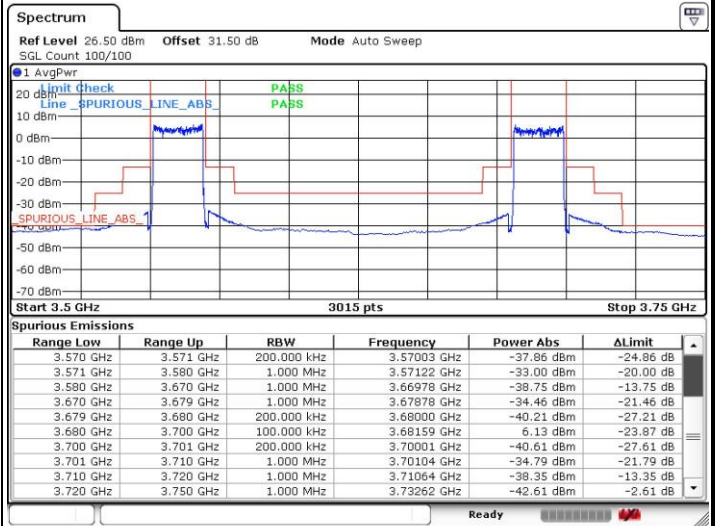
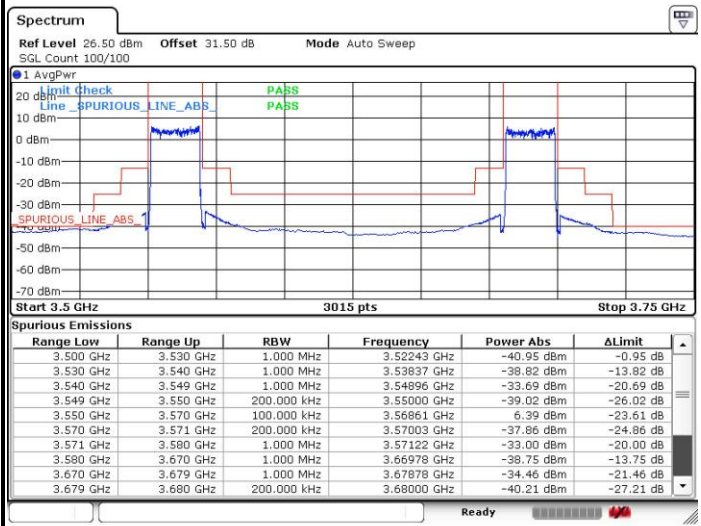


Date: 20 JUN 2023 11:18:33

Date: 20 JUN 2023 11:18:40

16QAM-L

16QAM-R



Date: 20 JUN 2023 11:11:11

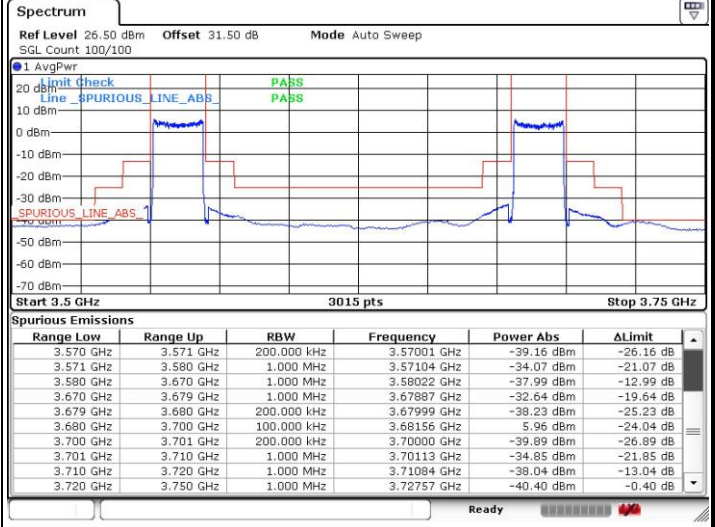
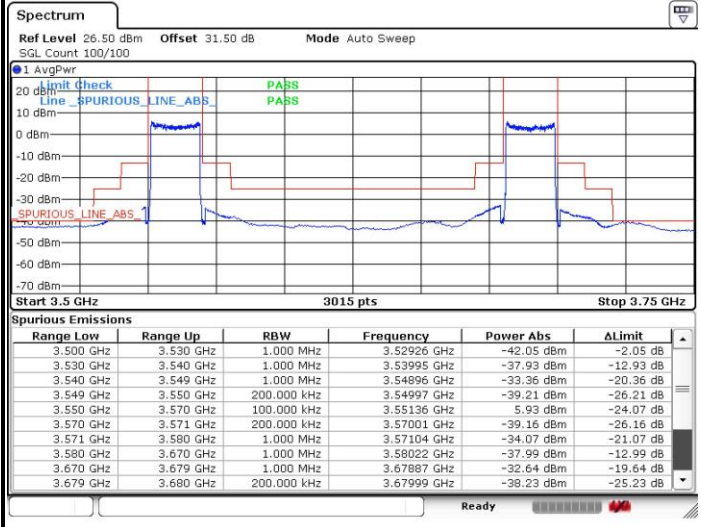
Date: 20 JUN 2023 11:11:18



LTE B48 / 20+20MHz / Lowest& Highest Channel / MASK/ non-contiguous

64QAM-L

64QAM-R

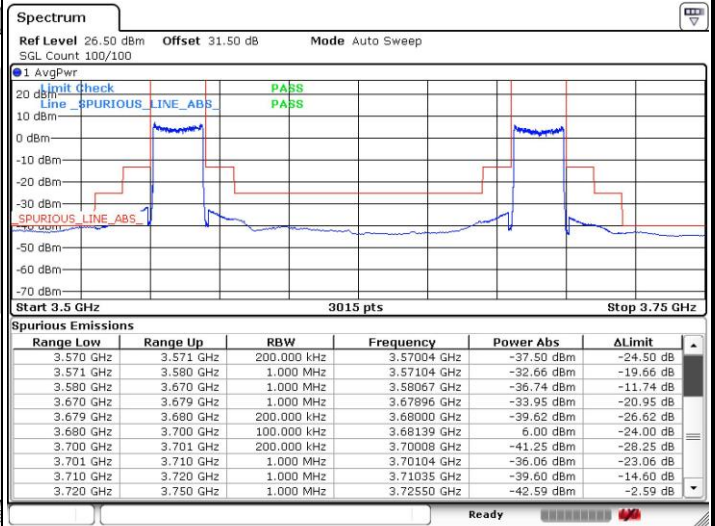
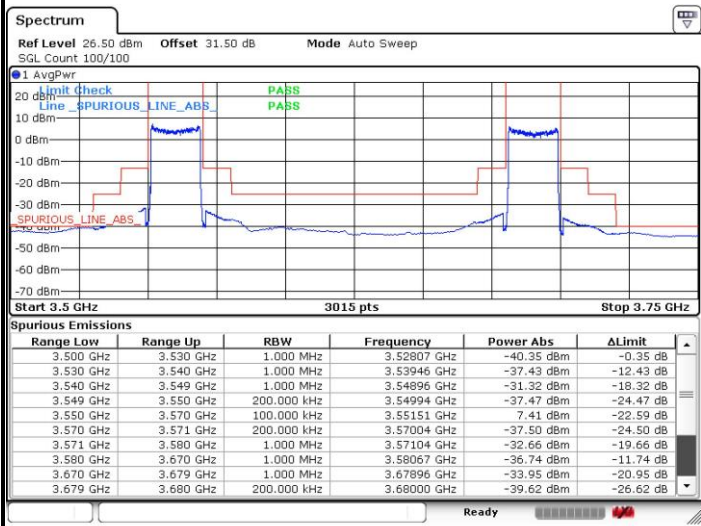


Date: 20 JUN 2023 11:27:42

Date: 20 JUN 2023 11:27:53

256QAM-L

256QAM-R



Date: 20 JUN 2023 11:45:07

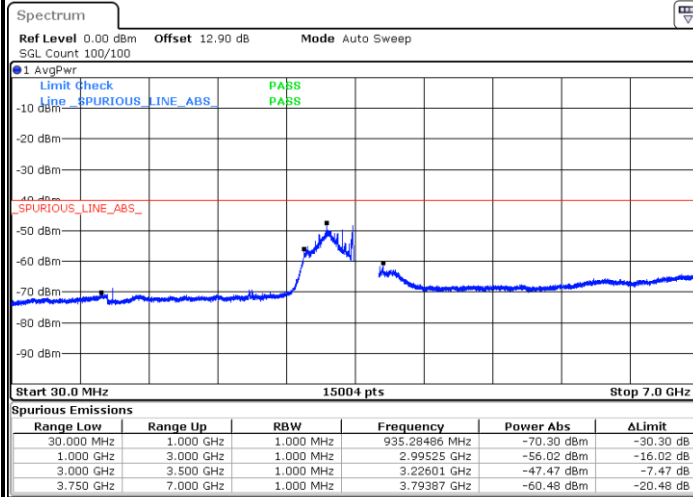
Date: 20 JUN 2023 11:45:18



Conducted Spurious Emission

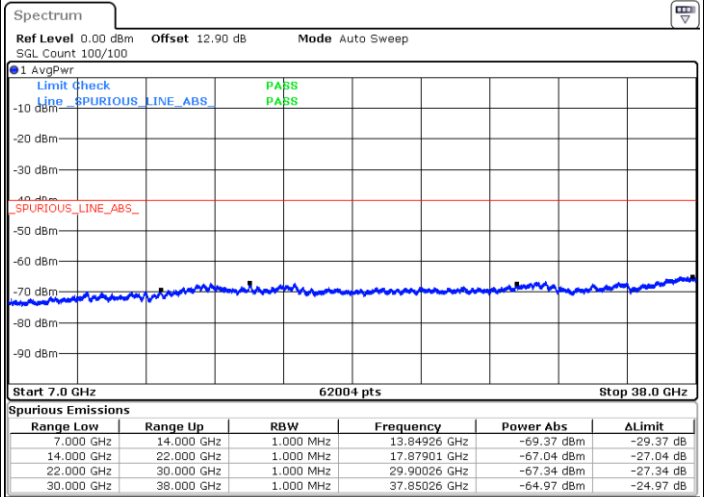
LTE B48 / 10+10MHz / QPSK / CSE

Lowest Channel-1



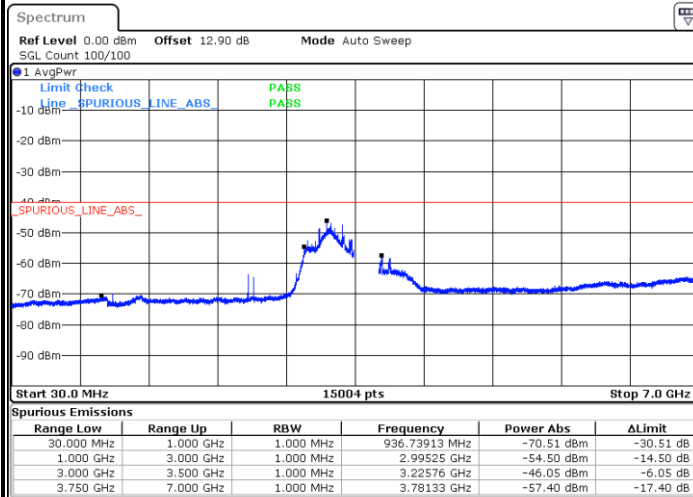
Date: 19 JUN 2023 15:08:29

Lowest Channel-2



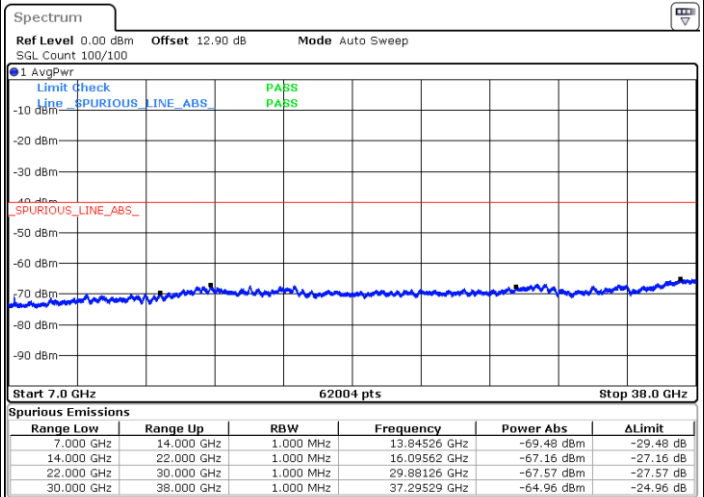
Date: 19 JUN 2023 15:09:49

Middle Channel-1



Date: 19 JUN 2023 11:28:23

Middle Channel-2



Date: 19 JUN 2023 11:32:04



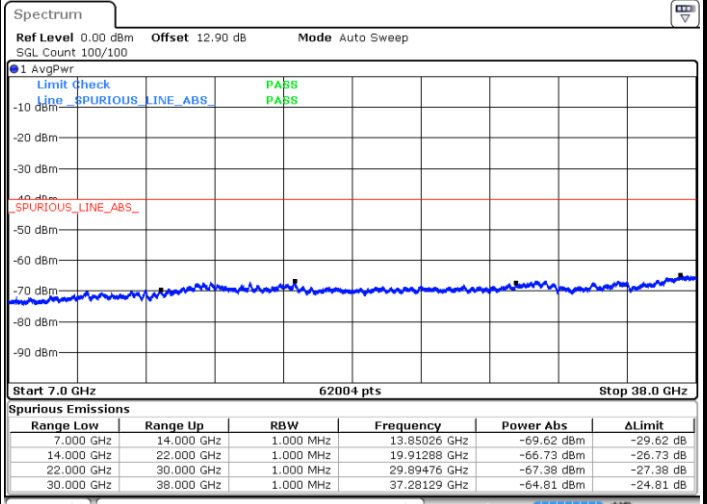
LTE B48 / 10+10MHz / QPSK / CSE

Highest Channel-1

Highest Channel-2



Date: 19 JUN 2023 17:03:17



Date: 19 JUN 2023 17:10:56