

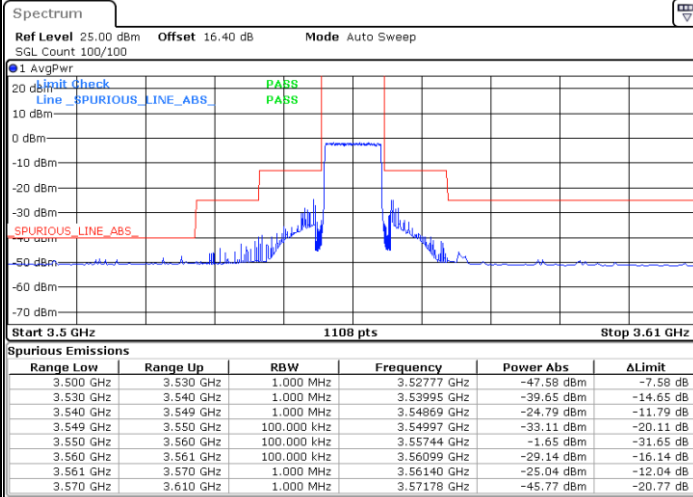


LTE Band 48 / 10MHz

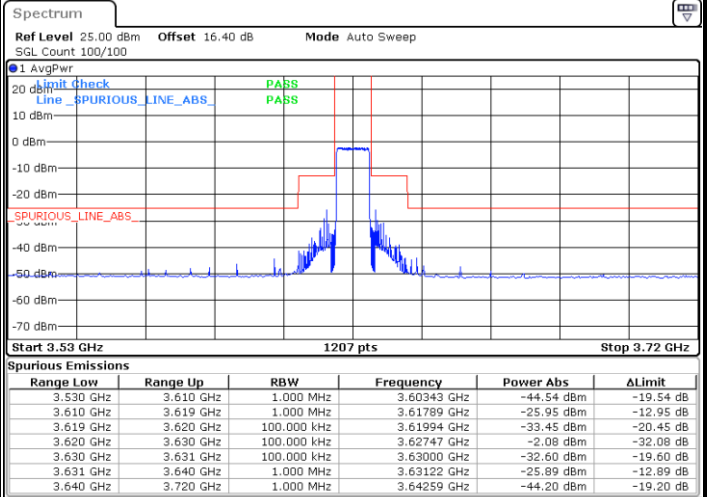
256QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



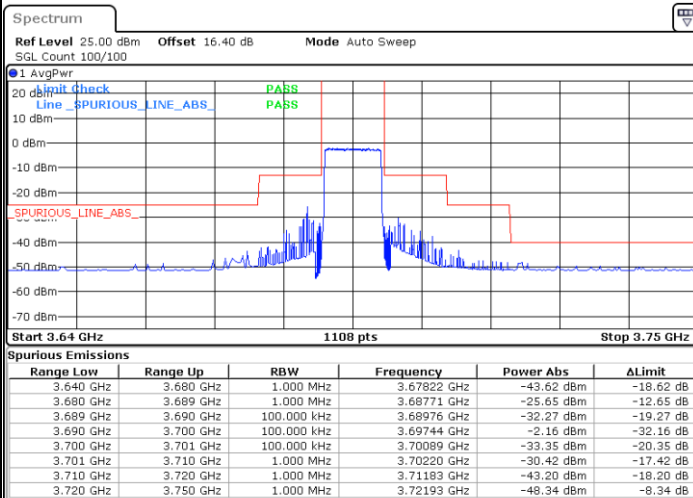
Date: 29.DEC.2022 11:49:43



Date: 29.DEC.2022 11:50:41

Highest Channel / FullIRB

N/A



Date: 29.DEC.2022 11:51:38

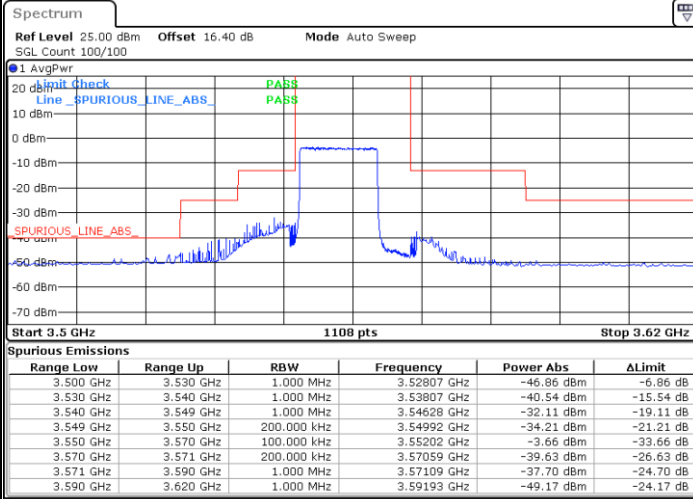


LTE Band 48 / 15MHz

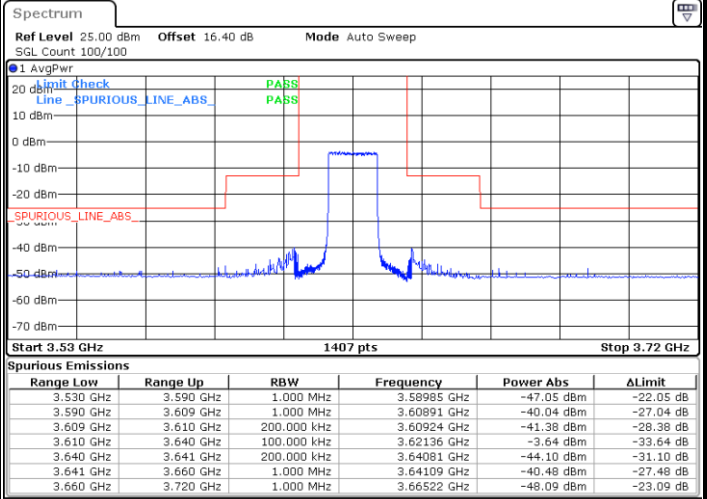
256QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



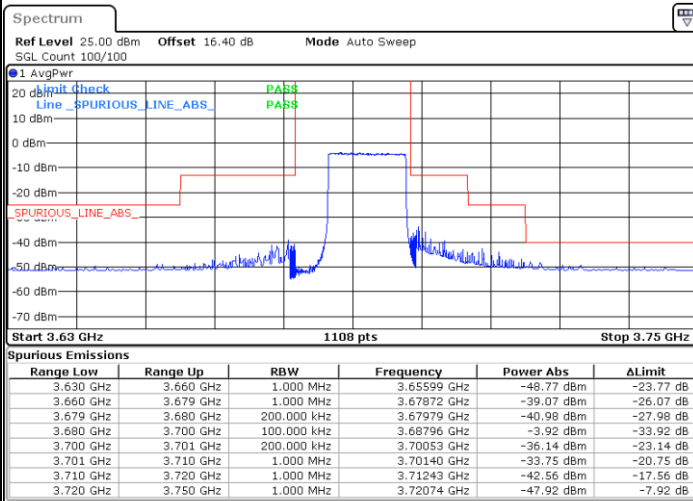
Date: 29.DEC.2022 11:52:41



Date: 29.DEC.2022 11:53:39

Highest Channel / FullIRB

N/A



Date: 29.DEC.2022 11:54:37

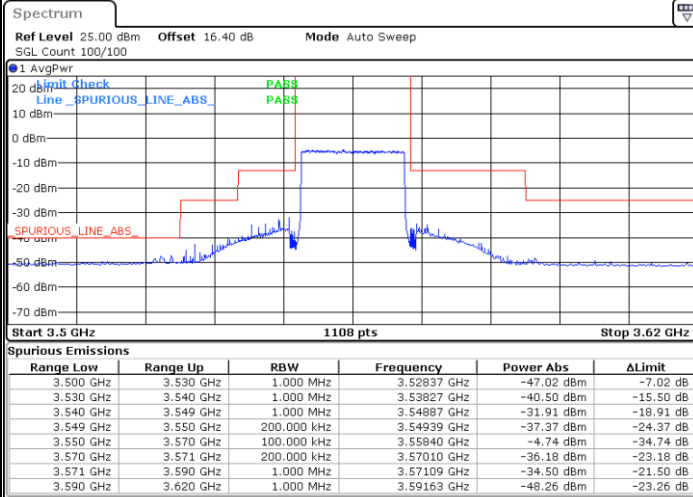


LTE Band 48 / 20MHz

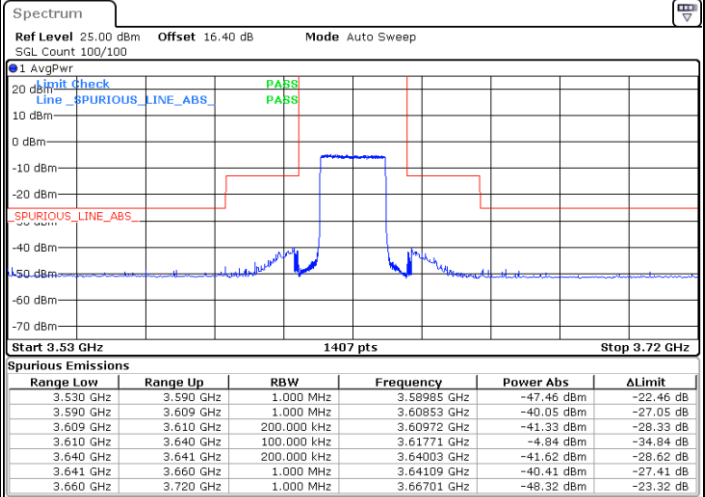
256QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



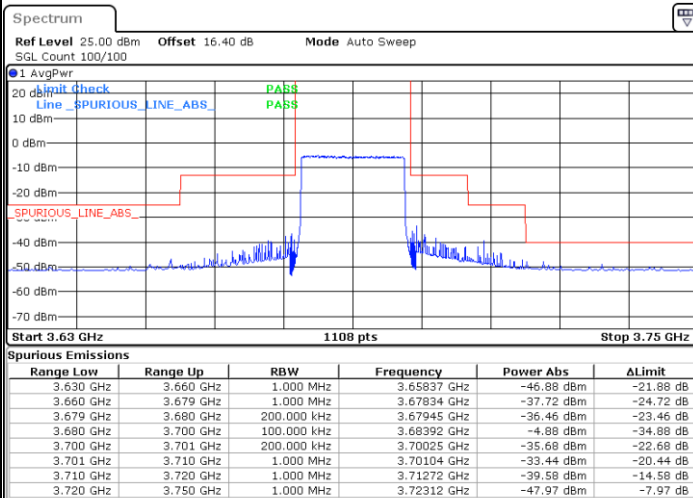
Date: 29.DEC.2022 11:55:40



Date: 29.DEC.2022 11:56:38

Highest Channel / FullIRB

N/A



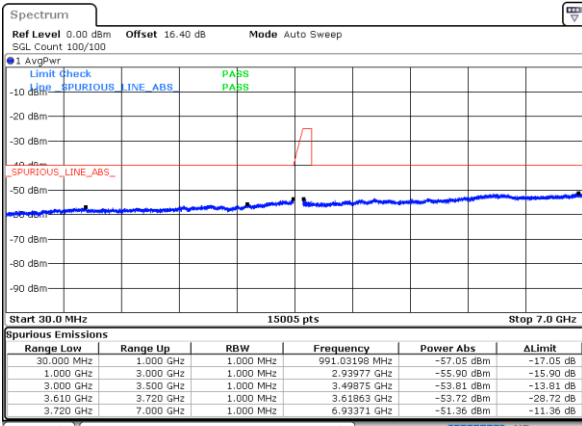
Date: 29.DEC.2022 11:57:36



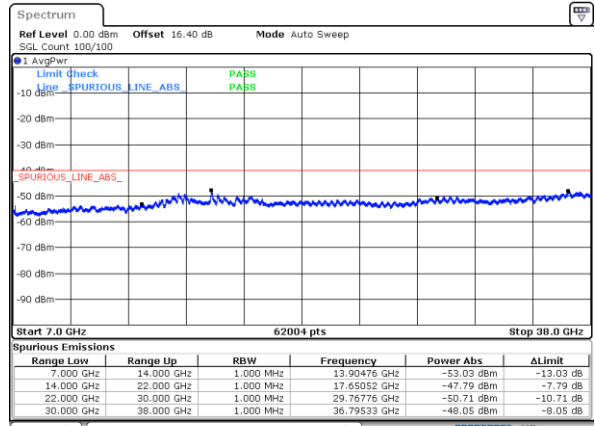
Conducted Spurious Emission

LTE Band 48 / 5MHz

Lowest Channel / QPSK

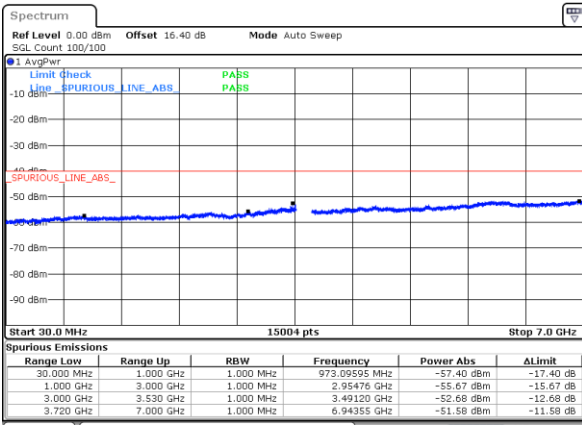


Date: 29,DEC,2022 11:09:10

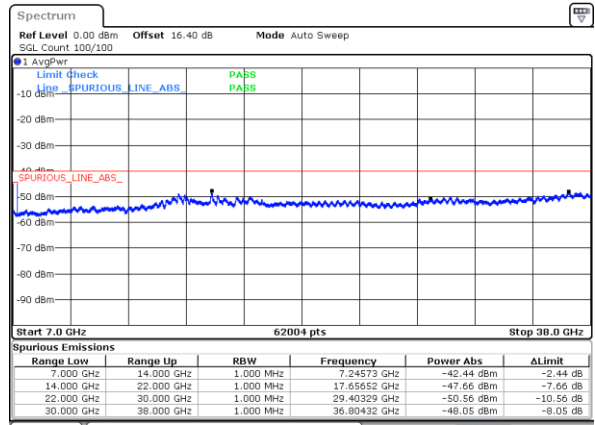


Date: 29,DEC,2022 11:25:13

Middle Channel / QPSK

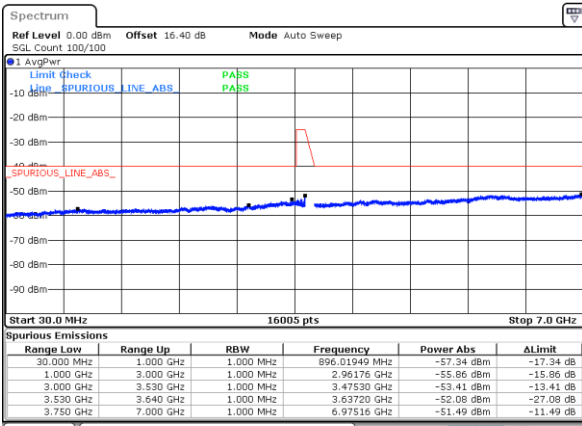


Date: 29,DEC,2022 11:10:36

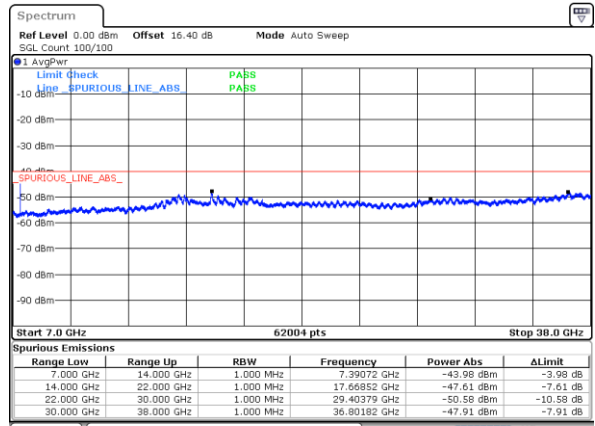


Date: 29,DEC,2022 11:26:31

Highest Channel / QPSK



Date: 29,DEC,2022 11:11:54

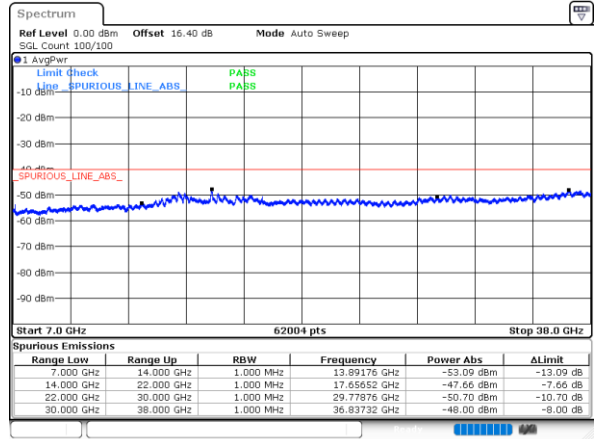
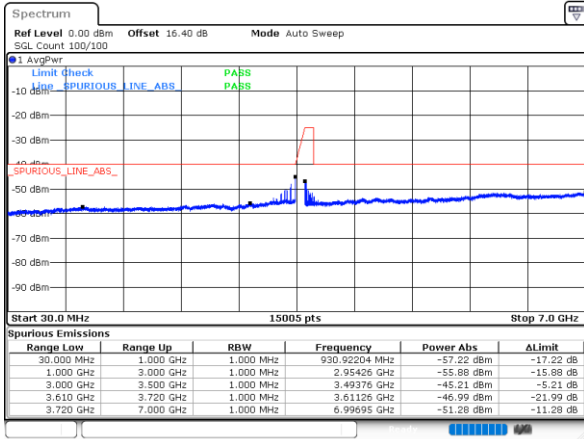


Date: 29,DEC,2022 11:27:49

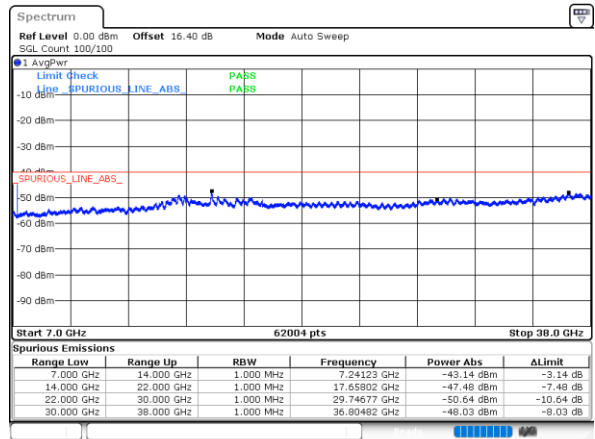
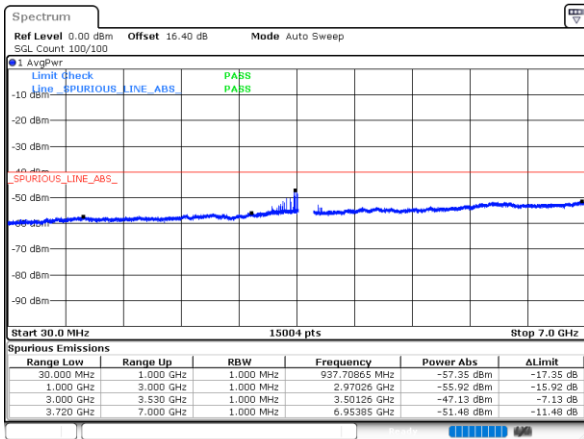


LTE Band 48 / 10MHz

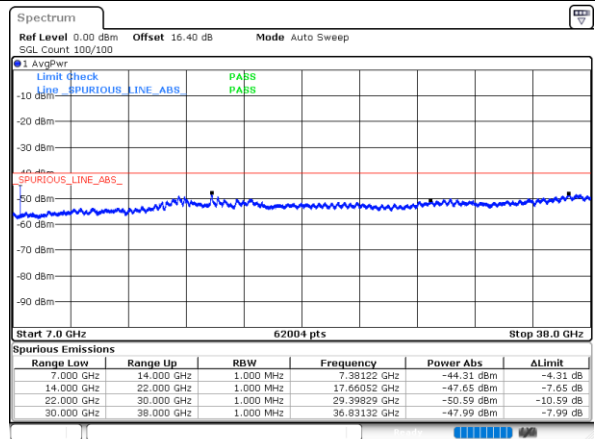
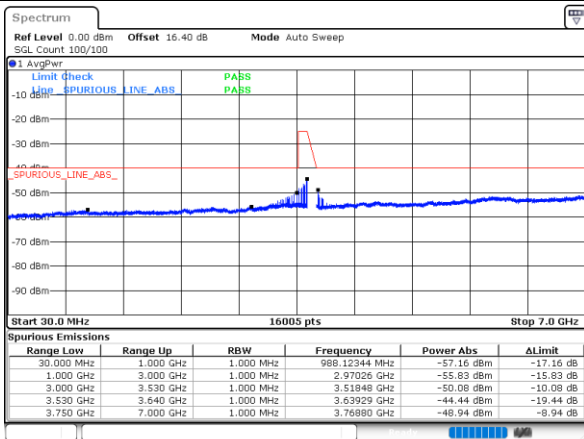
Lowest Channel / QPSK



Middle Channel / QPSK



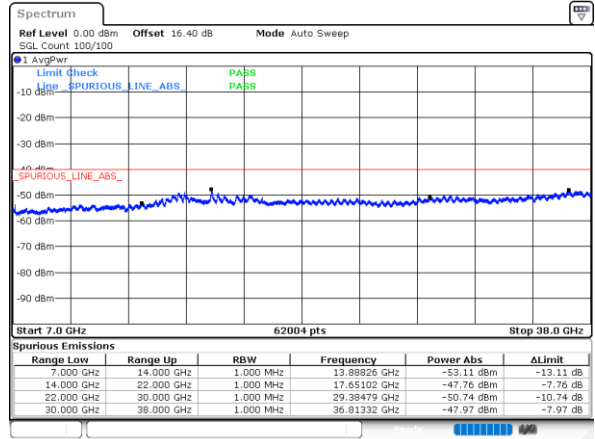
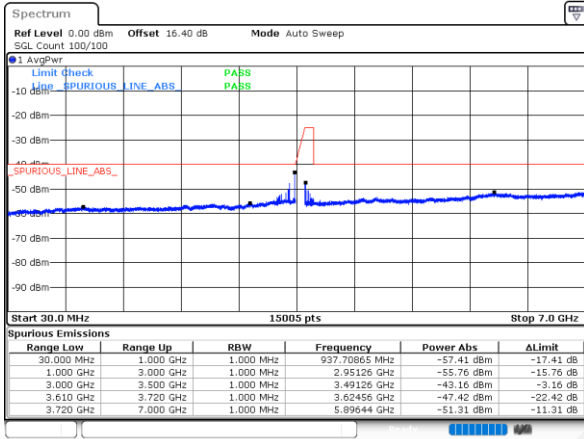
Highest Channel / QPSK



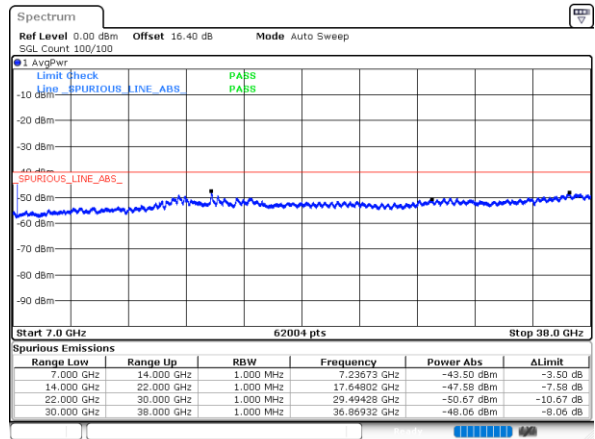
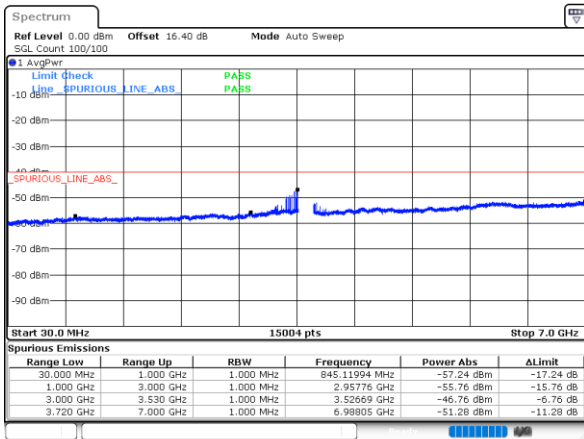


LTE Band 48 / 15MHz

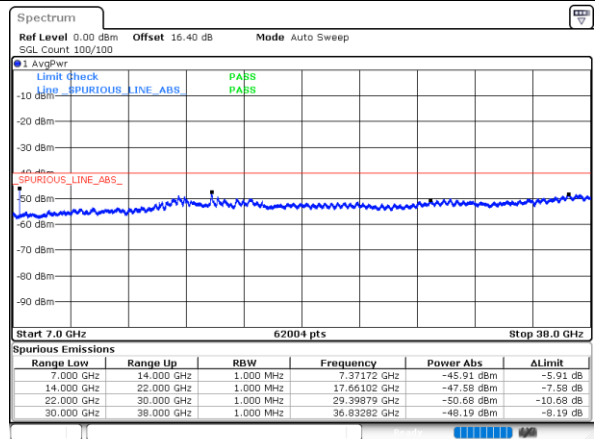
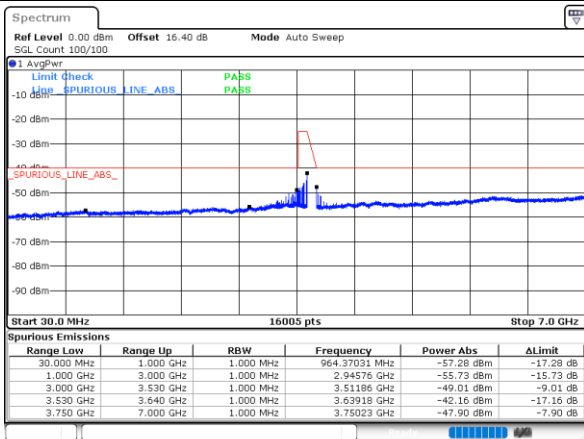
Lowest Channel / QPSK



Middle Channel / QPSK



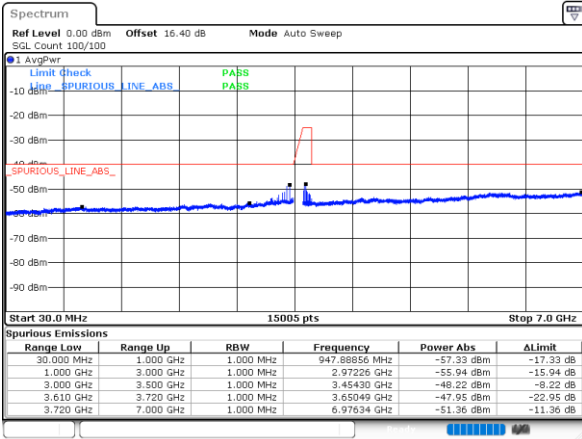
Highest Channel / QPSK



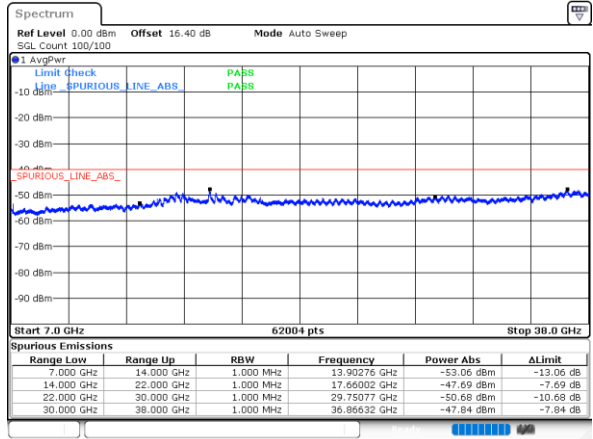


LTE Band 48 / 20MHz

Lowest Channel / QPSK

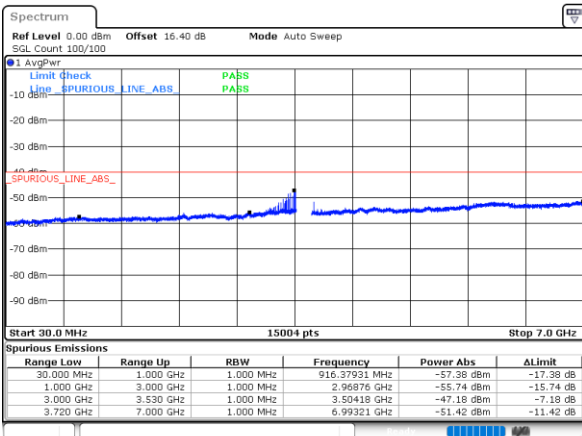


Date: 29.DEC.2022 11:21:14

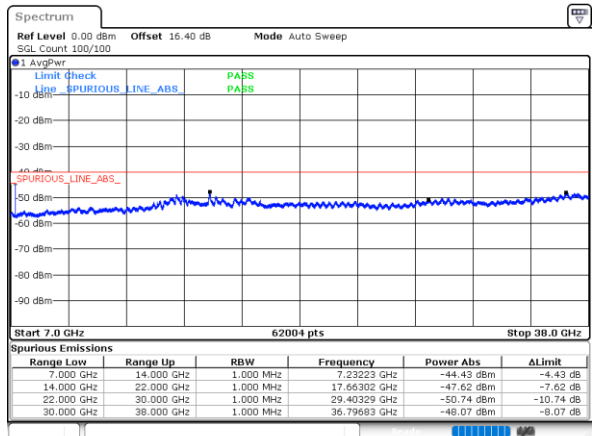


Date: 29.DEC.2022 11:37:14

Middle Channel / QPSK

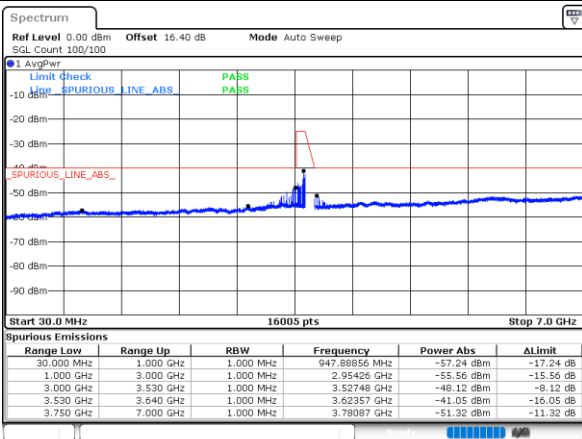


Date: 29.DEC.2022 11:21:32

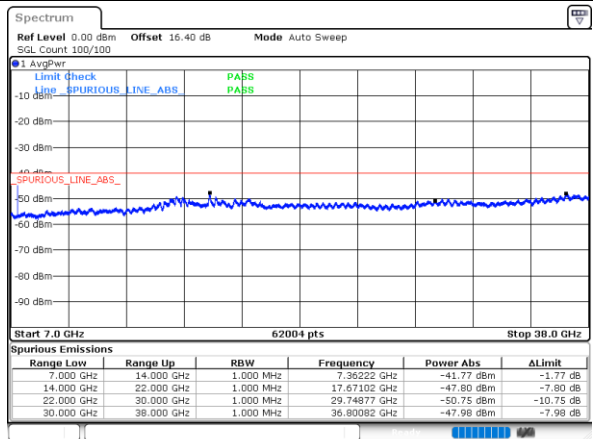


Date: 29.DEC.2022 11:38:32

Highest Channel / QPSK



Date: 29.DEC.2022 11:23:49



Date: 29.DEC.2022 11:39:50

Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

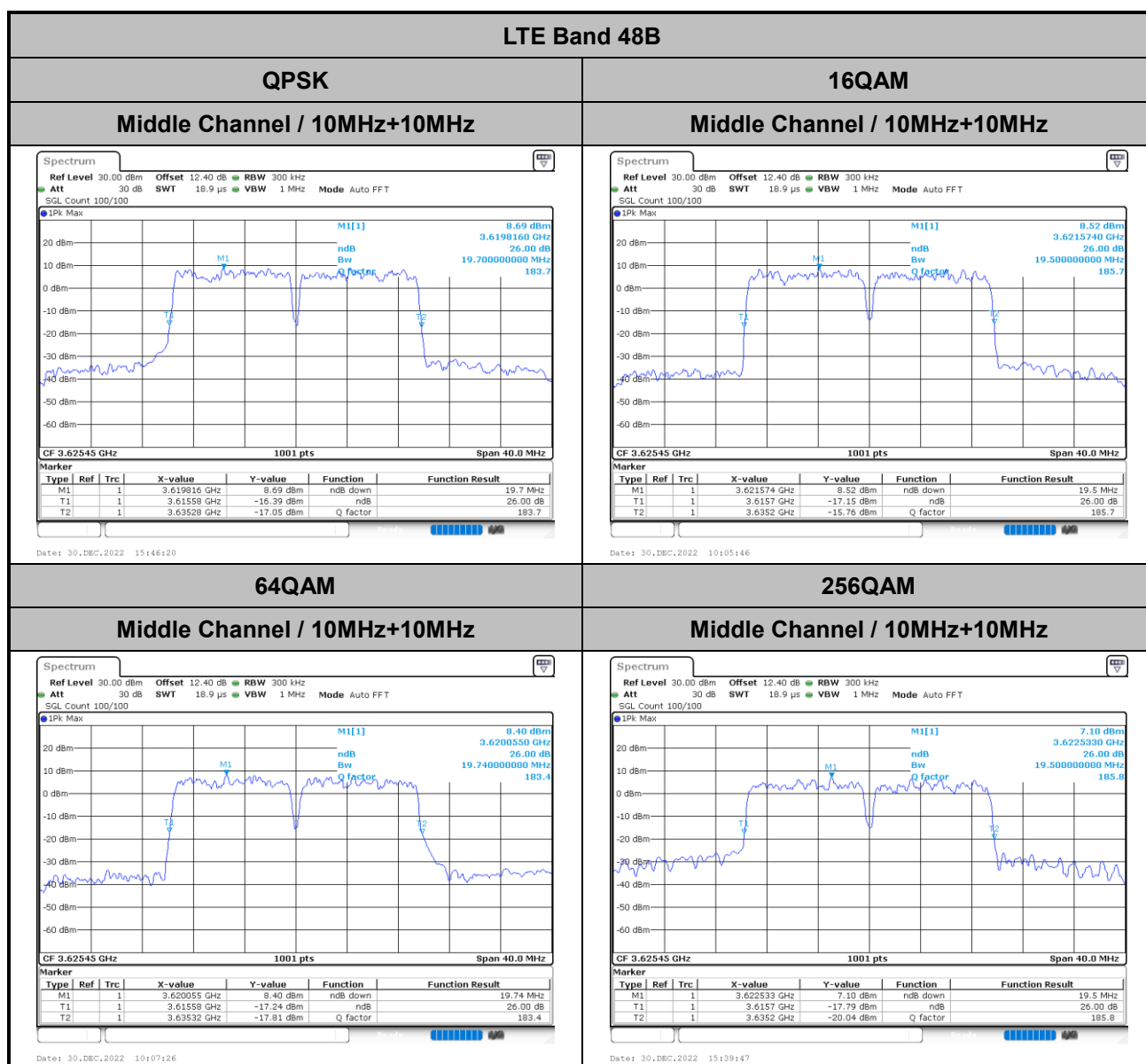
1. Normal Voltage = 4.2 V. ; Battery End Point (ACLRP) = 3.4 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 48B

26dB Bandwidth

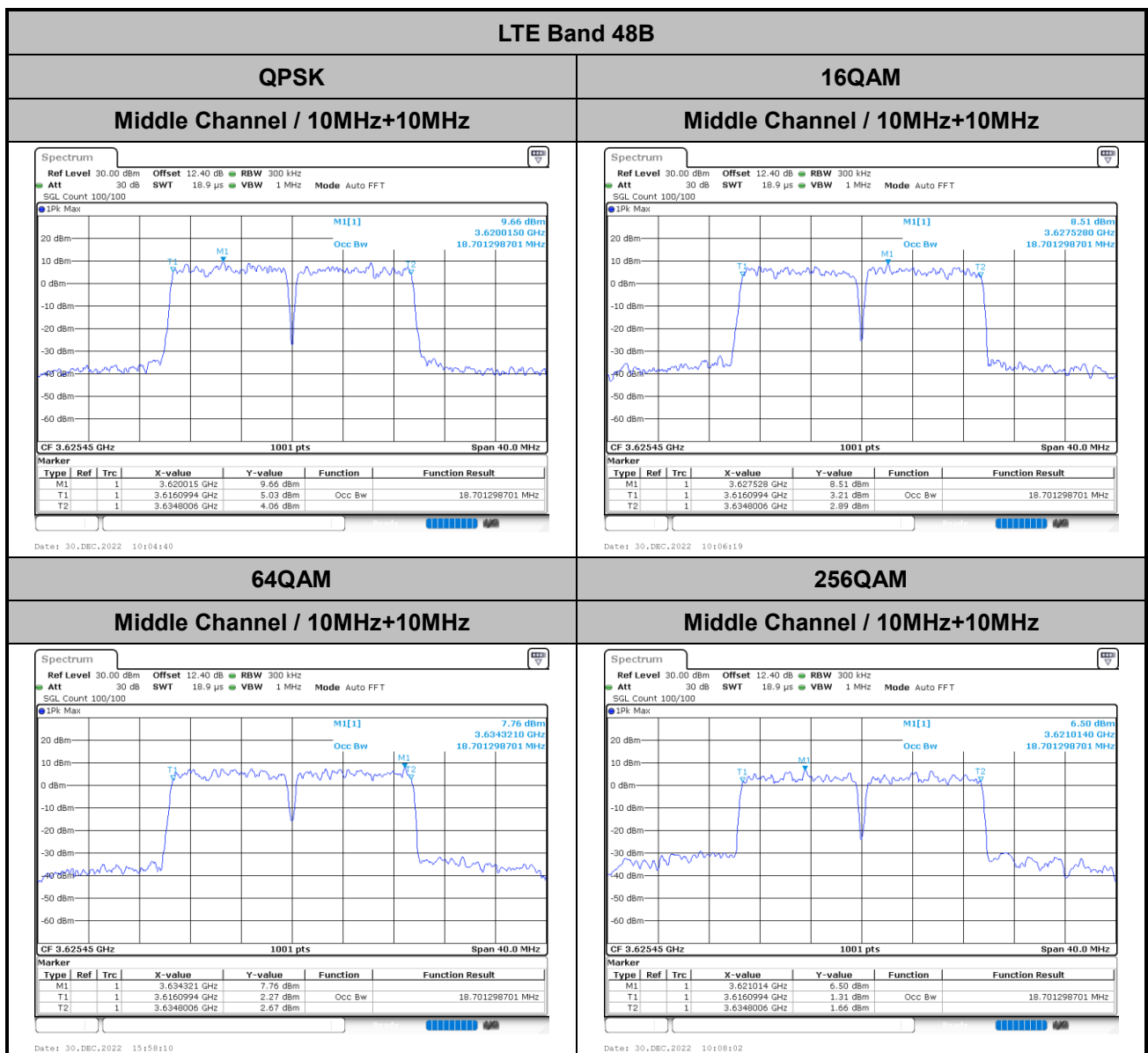
Mode	LTE Band 48B : 26dB BW(MHz)			
10MHz+10MHz				
BW	QPSK	16QAM	64QAM	256QAM
Middle CH	19.70	19.50	19.74	19.50

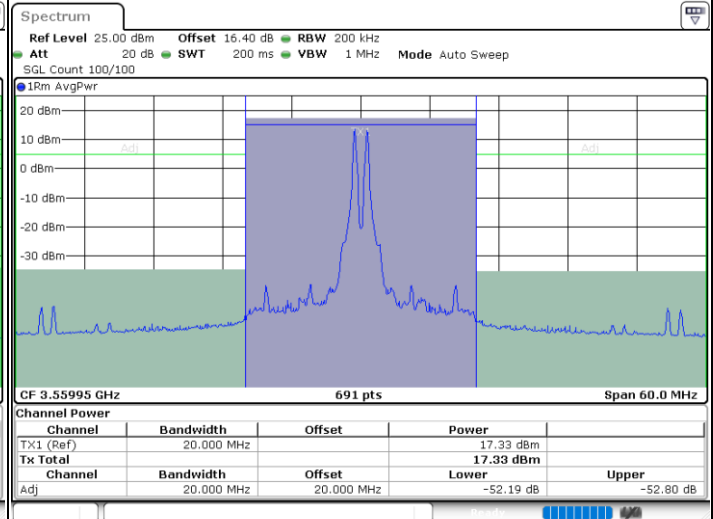
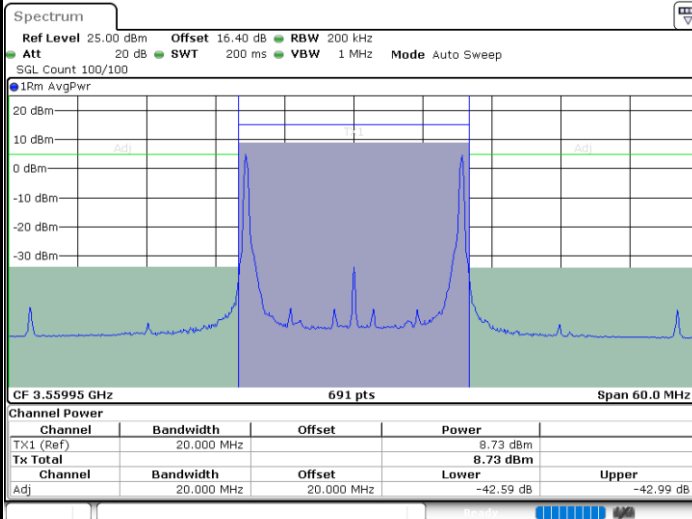
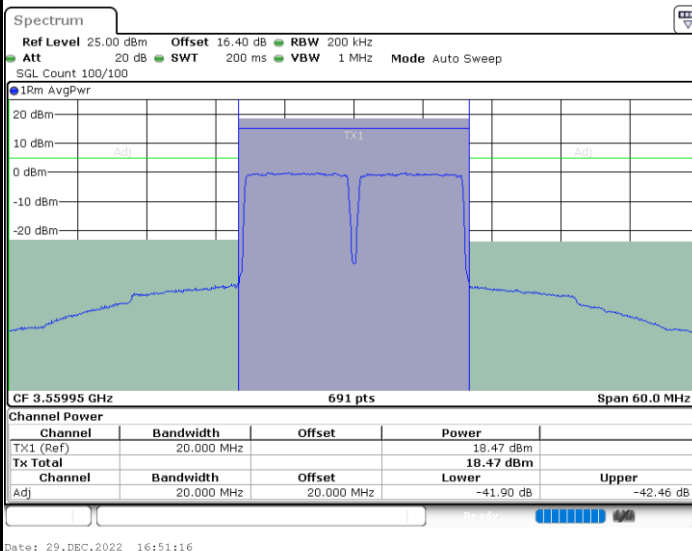




Occupied Bandwidth

Mode	LTE Band 48B : 99%OBW(MHz)			
	10MHz+10MHz			
BW	QPSK	16QAM	64QAM	256QAM
Middle CH	18.70	18.70	18.70	18.70



**ACLR****LTE Band 48B / 10MHz+10MHz****QPSK****Lowest Channel / 1RB0 and 1RB49****Lowest Channel / 1RB49 and 1RB0****Lowest Channel / FullIRB****N/A**

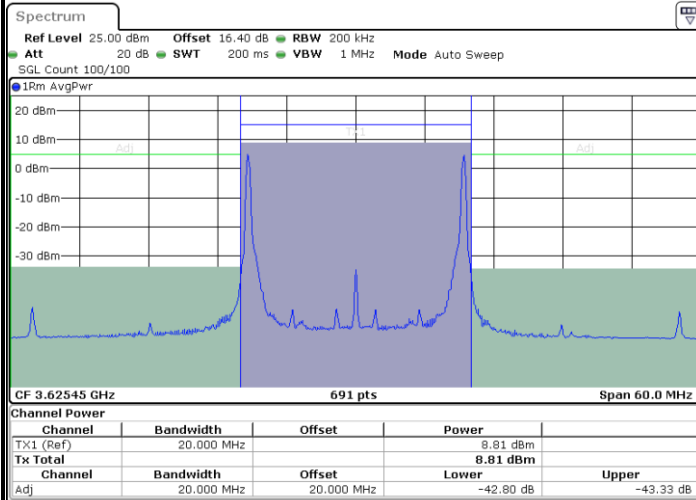


LTE Band 48B / 10MHz+10MHz

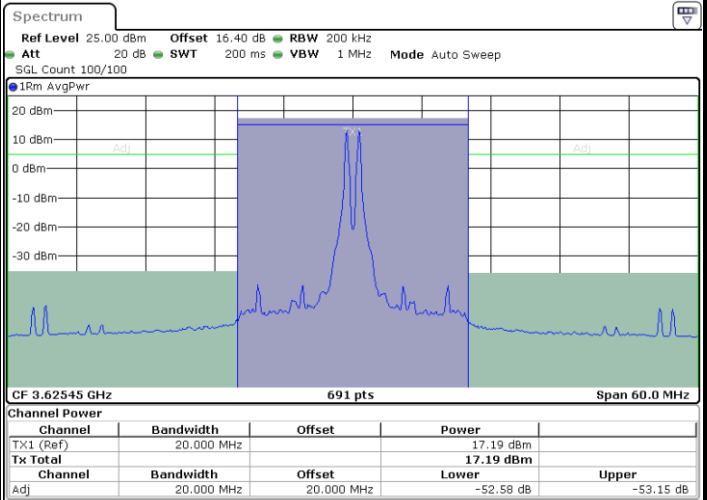
QPSK

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



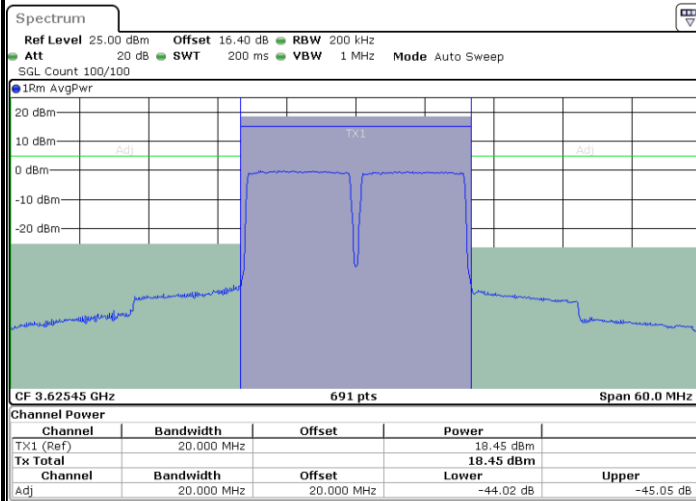
Date: 29.DEC.2022 17:08:05



Date: 29.DEC.2022 17:08:57

Middle Channel / FullRB

N/A



Date: 29.DEC.2022 17:01:56

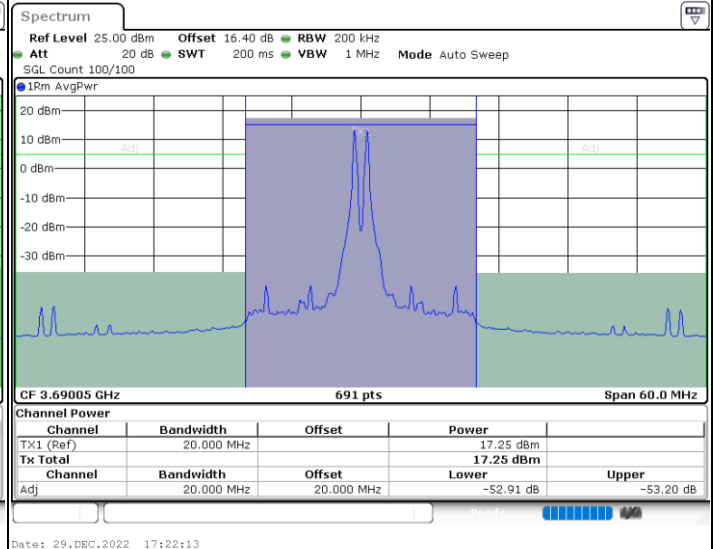
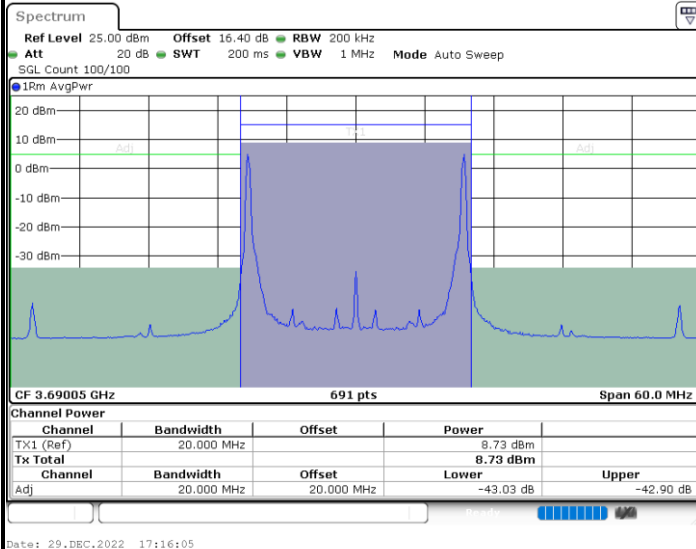


LTE Band 48B / 10MHz+10MHz

QPSK

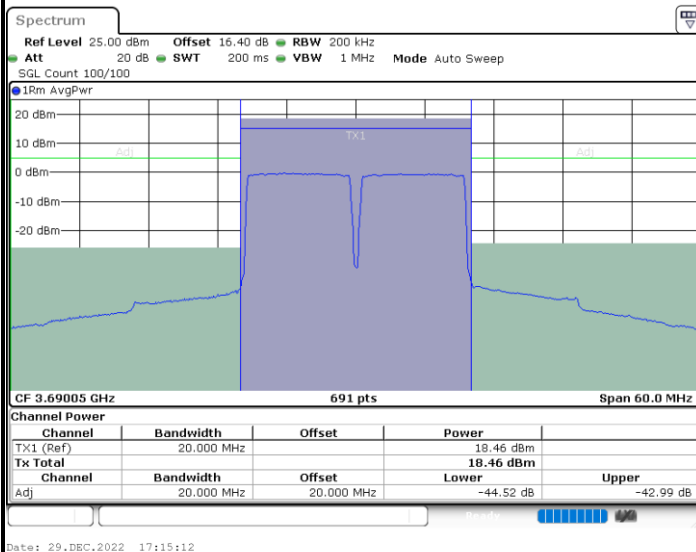
Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



Highest Channel / FullIRB

N/A



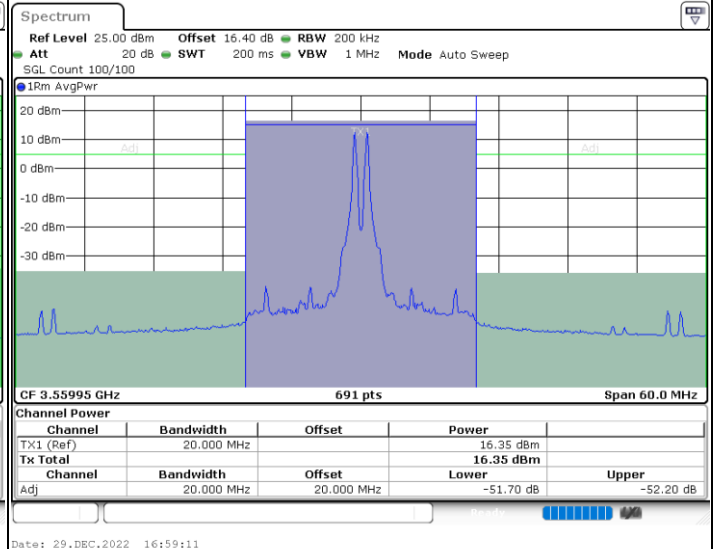
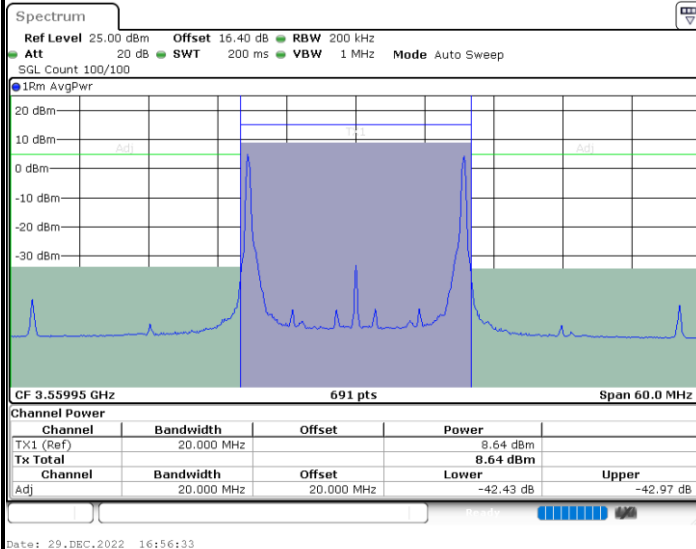


LTE Band 48B / 10MHz+10MHz

16QAM

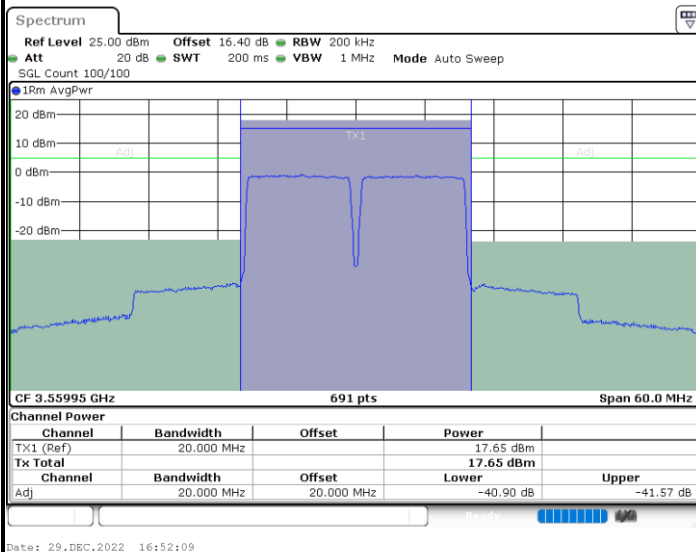
Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0



Lowest Channel / FullRB

N/A



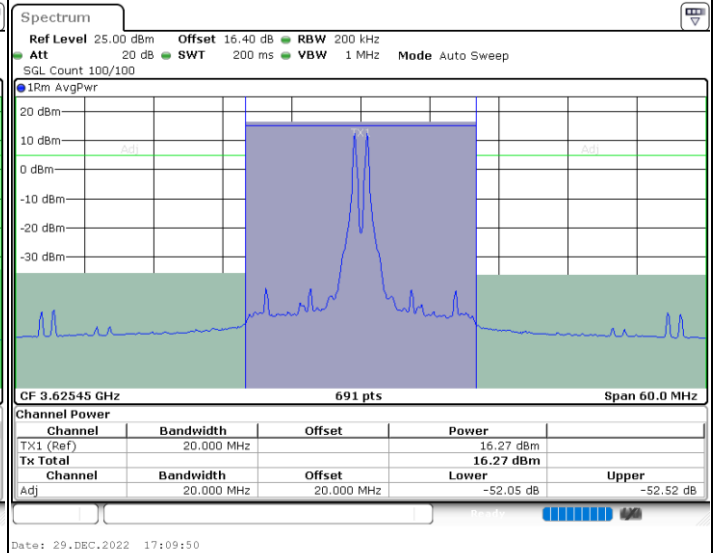
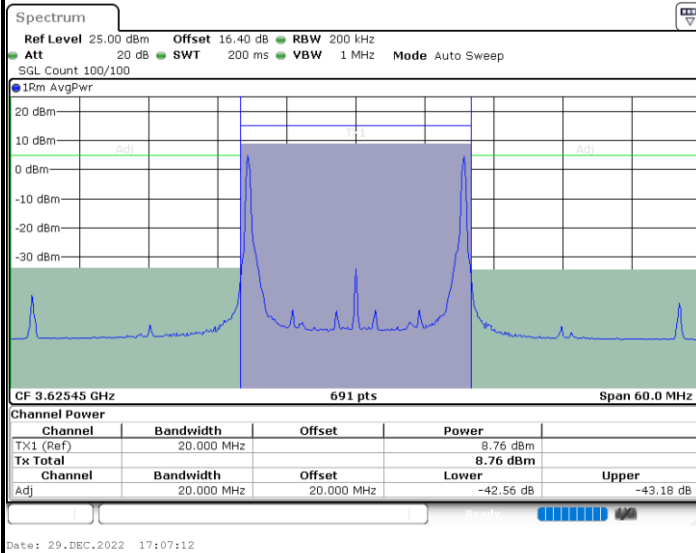


LTE Band 48B / 10MHz+10MHz

16QAM

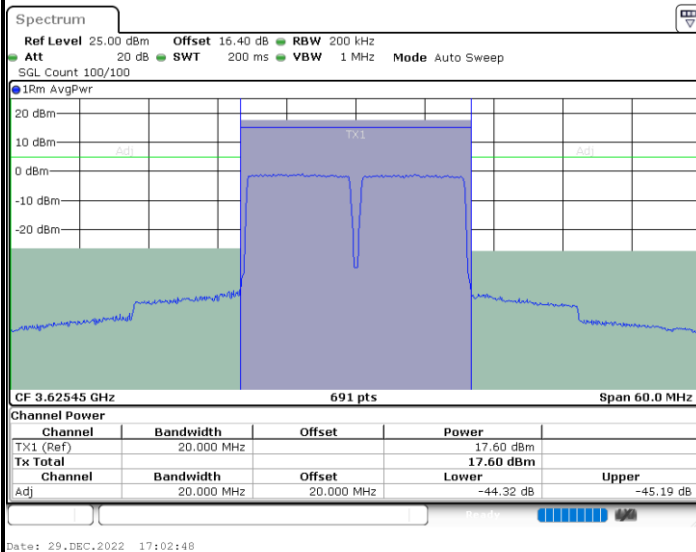
Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



Middle Channel / FullRB

N/A



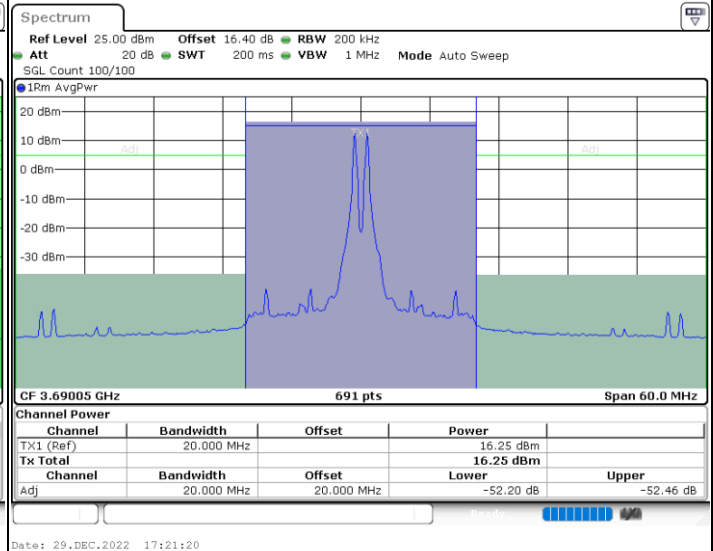
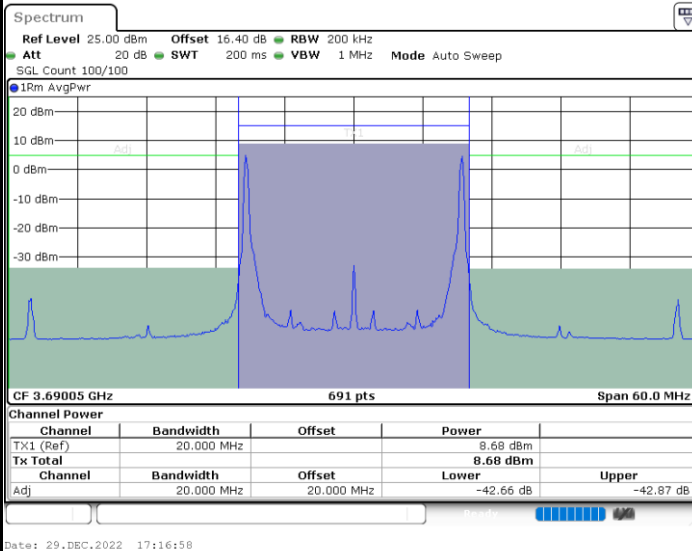


LTE Band 48B / 10MHz+10MHz

16QAM

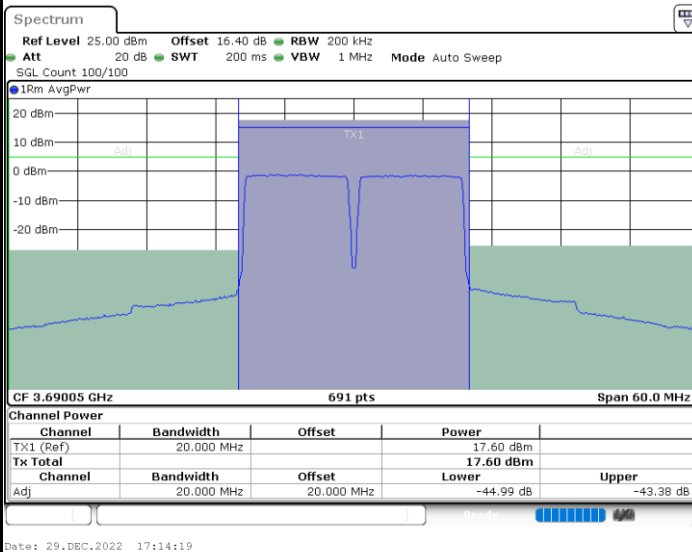
Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



Highest Channel / FullRB

N/A



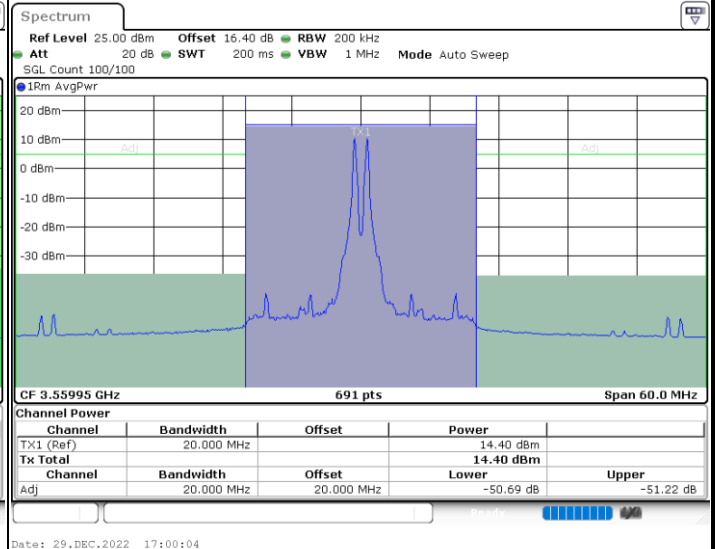
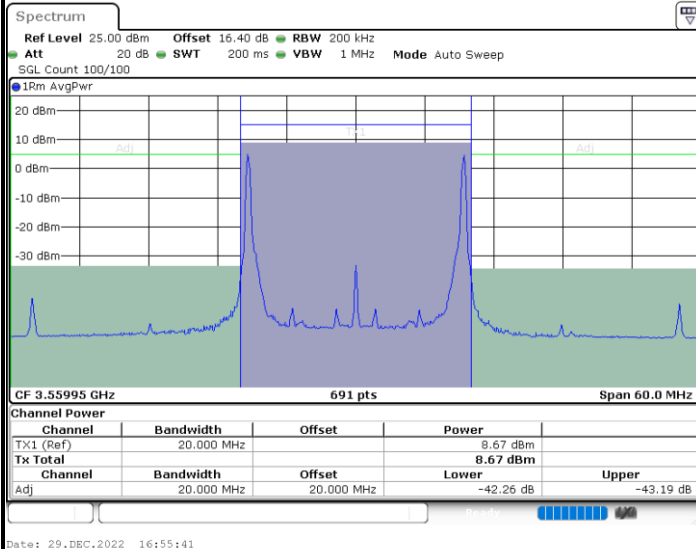


LTE Band 48B / 10MHz+10MHz

64QAM

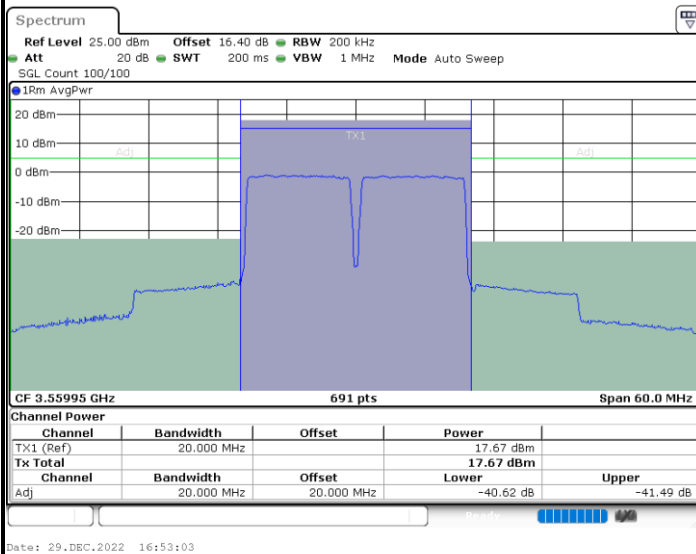
Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0



Lowest Channel / FullRB

N/A



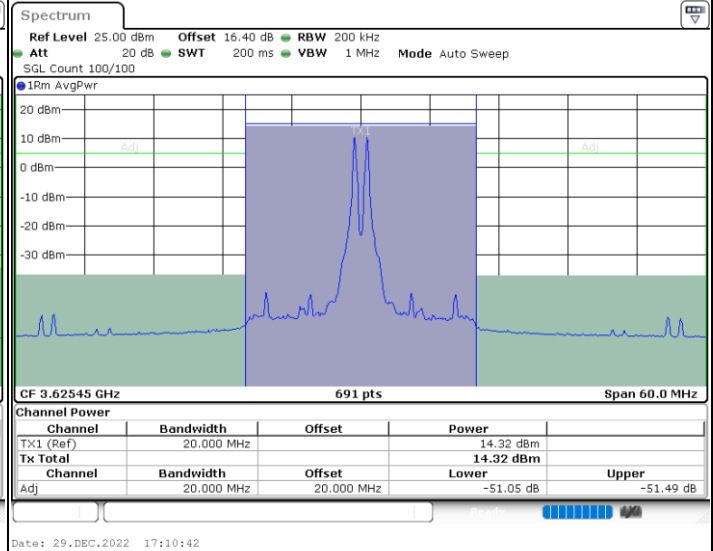
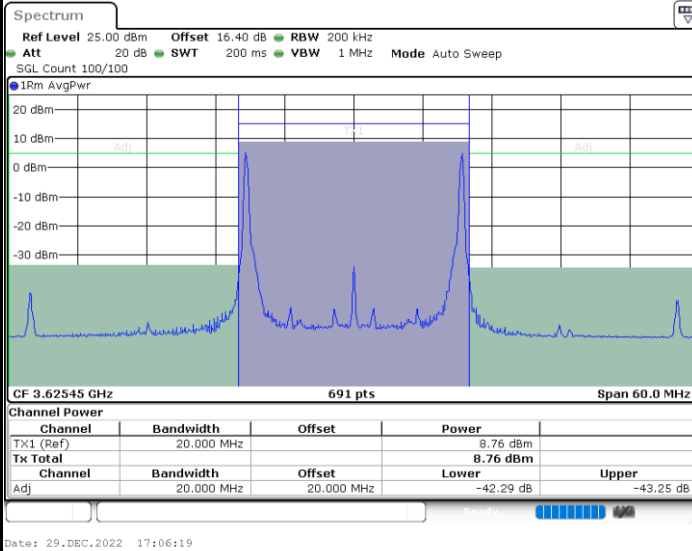


LTE Band 48B / 10MHz+10MHz

64QAM

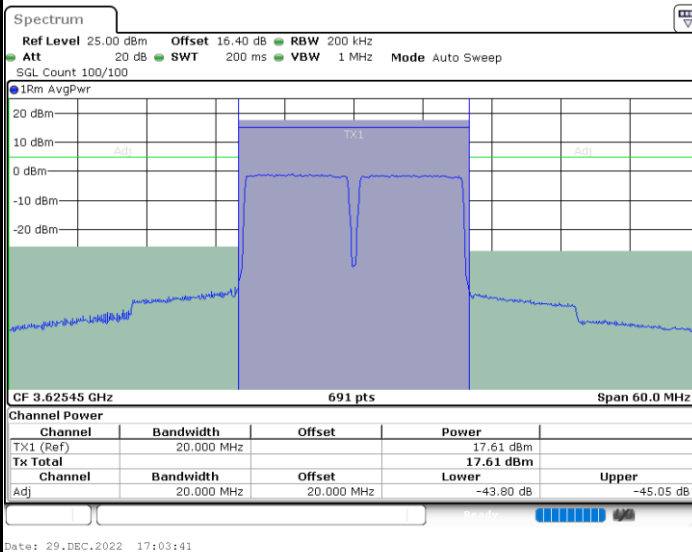
Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



Middle Channel / FullRB

N/A



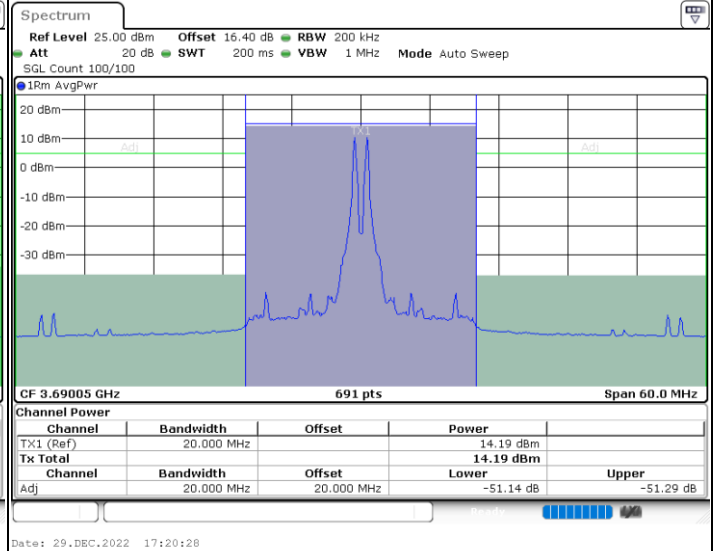
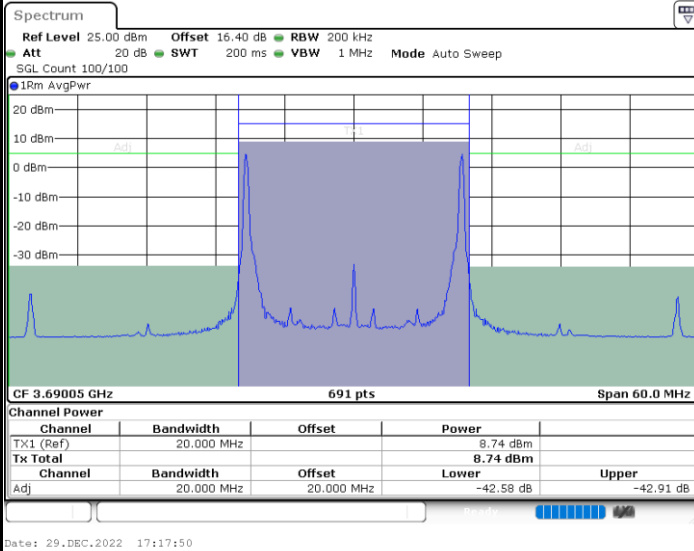


LTE Band 48B / 10MHz+10MHz

64QAM

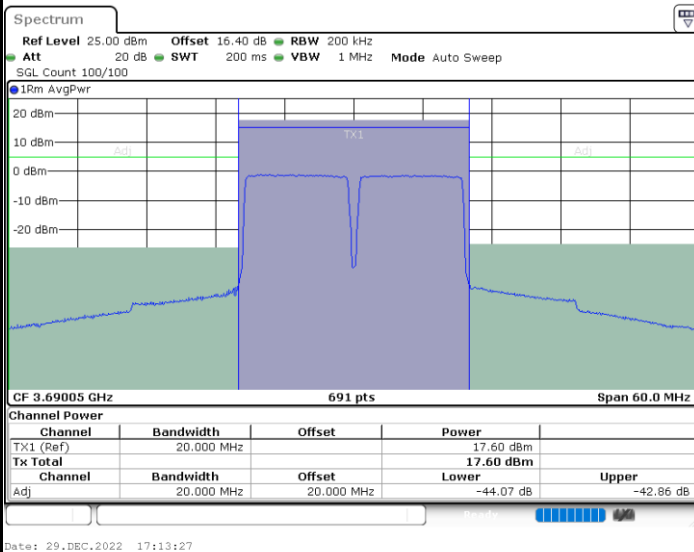
Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



Highest Channel / FullIRB

N/A



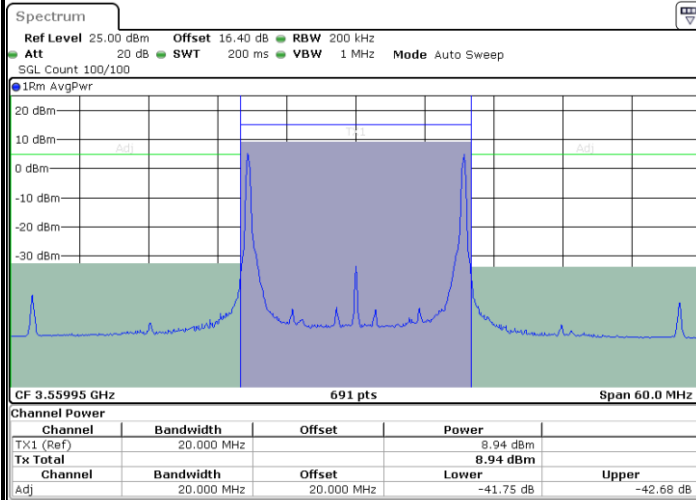


LTE Band 48B / 10MHz+10MHz

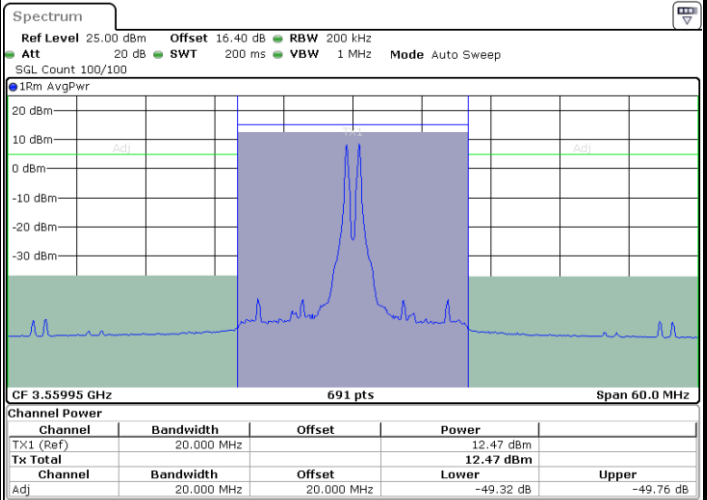
256QAM

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0



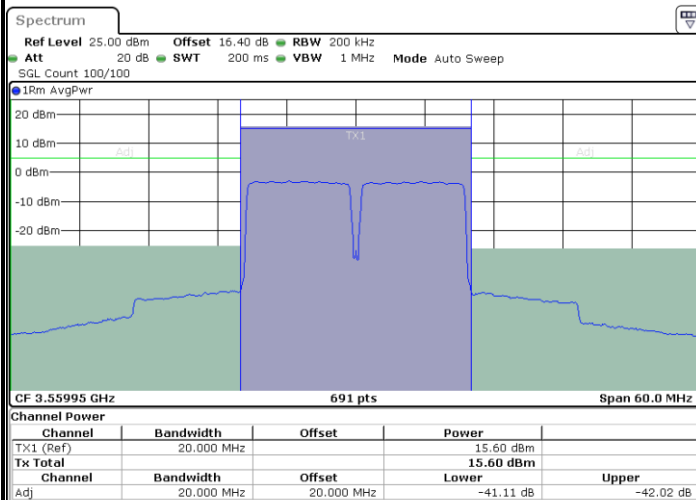
Date: 29.DEC.2022 16:54:48



Date: 29.DEC.2022 17:00:56

Lowest Channel / FullRB

N/A



Date: 29.DEC.2022 16:53:55

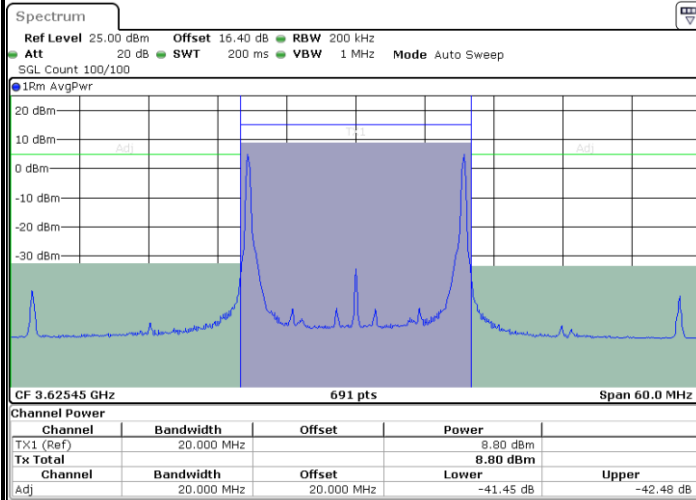


LTE Band 48B / 10MHz+10MHz

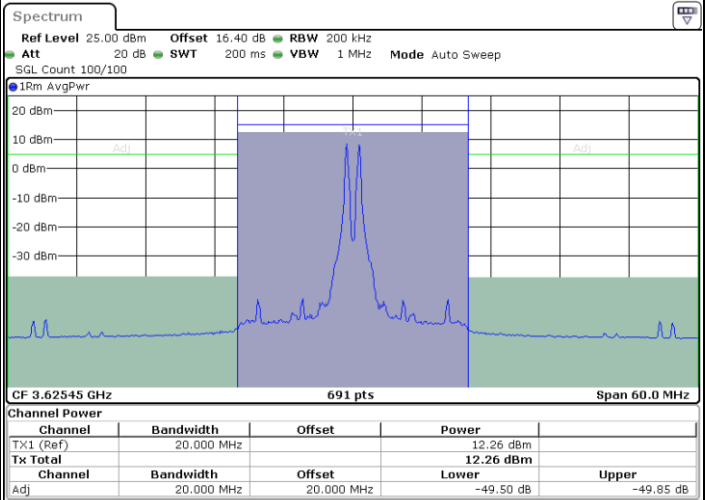
256QAM

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



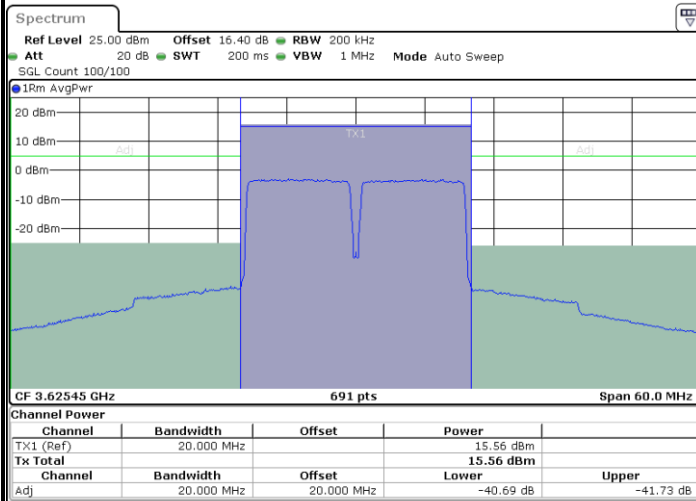
Date: 29.DEC.2022 17:05:27



Date: 29.DEC.2022 17:11:35

Middle Channel / FullRB

N/A



Date: 29.DEC.2022 17:04:34

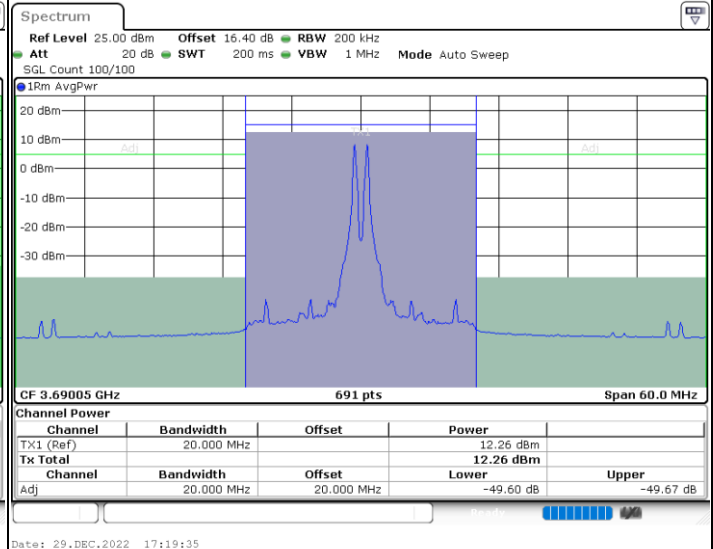
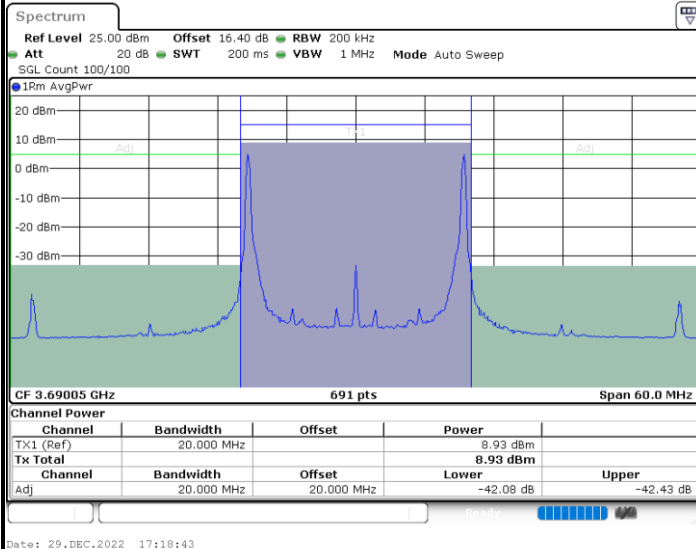


LTE Band 48B / 10MHz+10MHz

256QAM

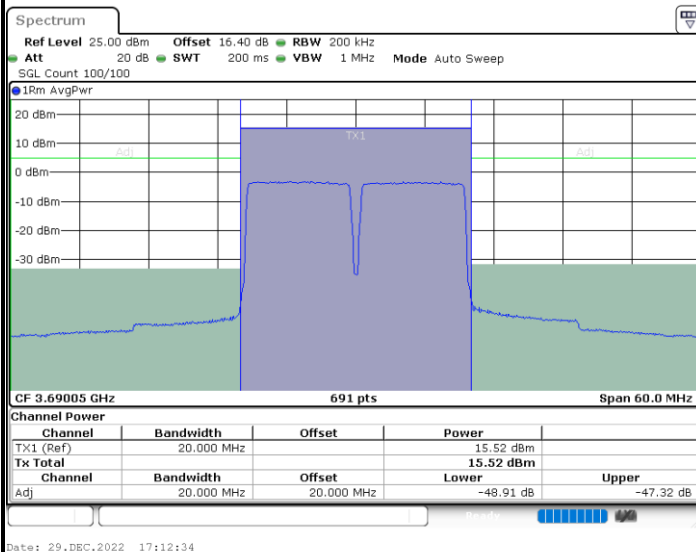
Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



Highest Channel / FullIRB

N/A



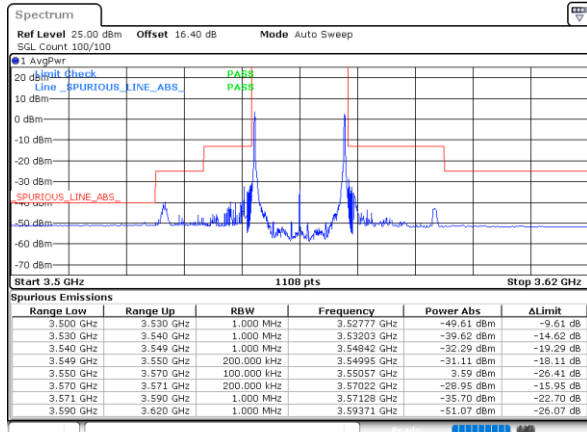


Conducted Band Edge

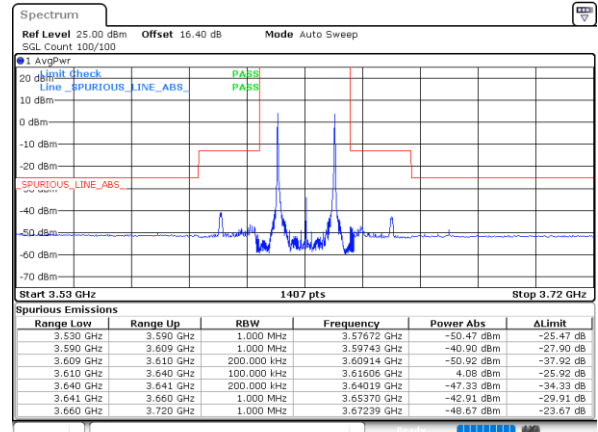
LTE Band 48B / 10MHz+10MHz

QPSK

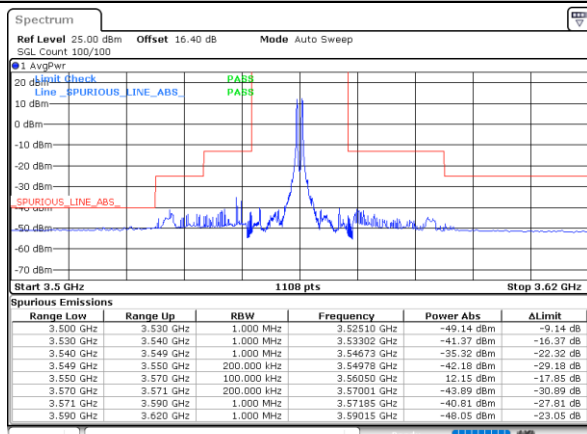
Lowest Band Edge / 1RB0 and 1RB49



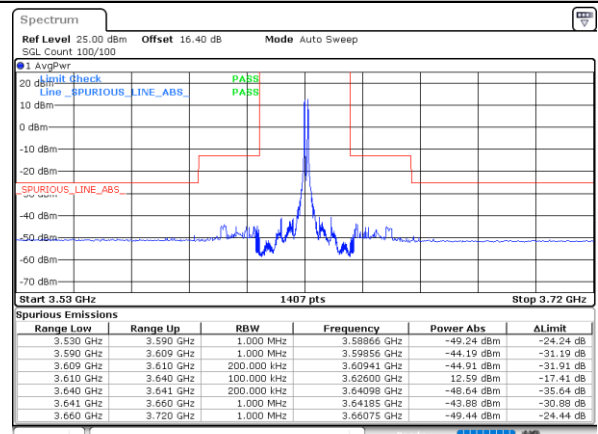
Middle Band Edge / 1RB0 and 1RB49



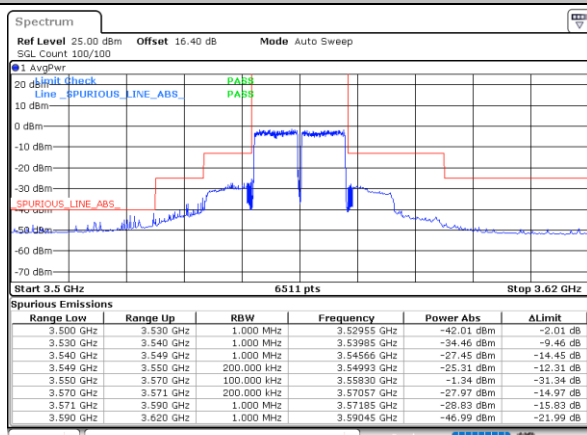
Lowest Band Edge / 1RB49 and 1RB0



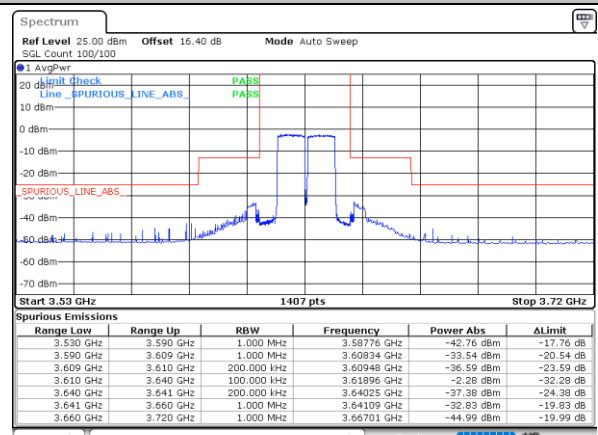
Middle Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB



Middle Band Edge / Full RB



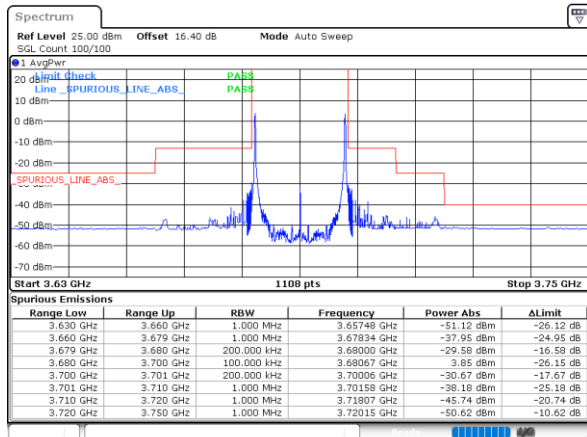


LTE Band 48B / 10MHz+10MHz

QPSK

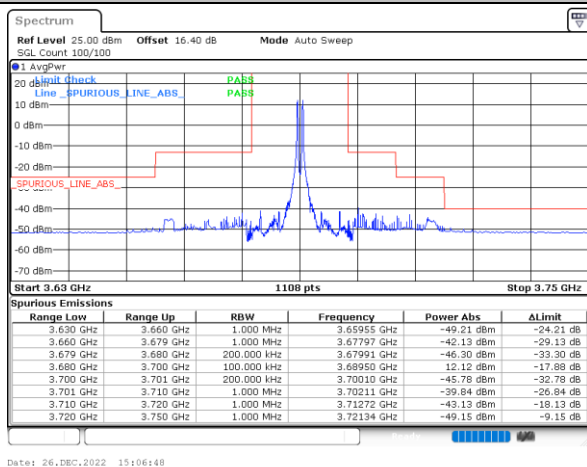
Highest Band Edge / 1RB0 and 1RB49

N/A



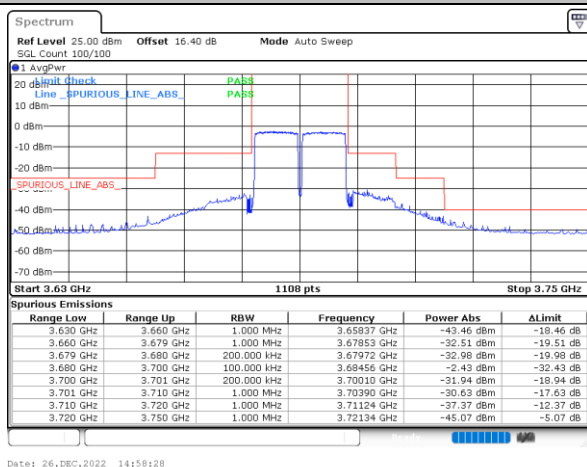
Highest Band Edge / 1RB49 and 1RB0

N/A



Highest Band Edge / Full RB

N/A

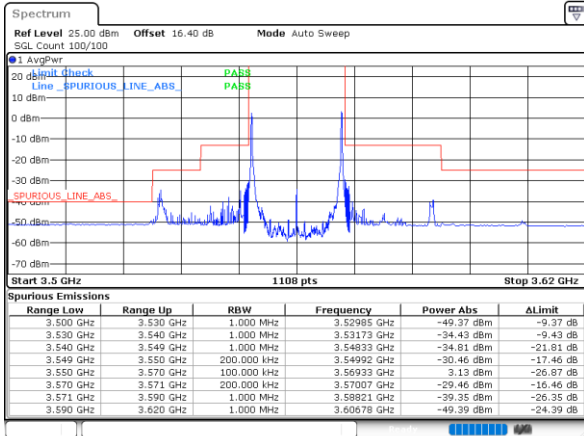




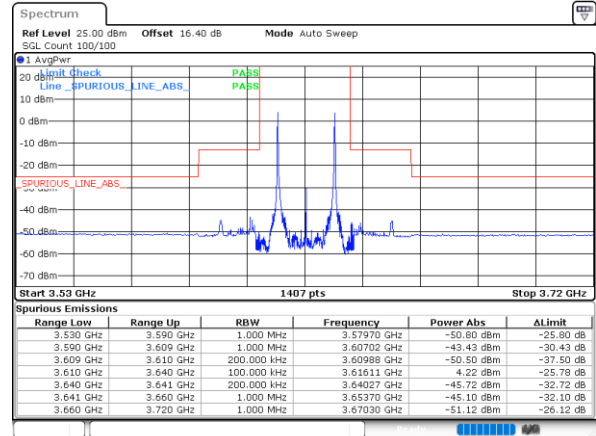
LTE Band 48B / 10MHz+10MHz

16QAM

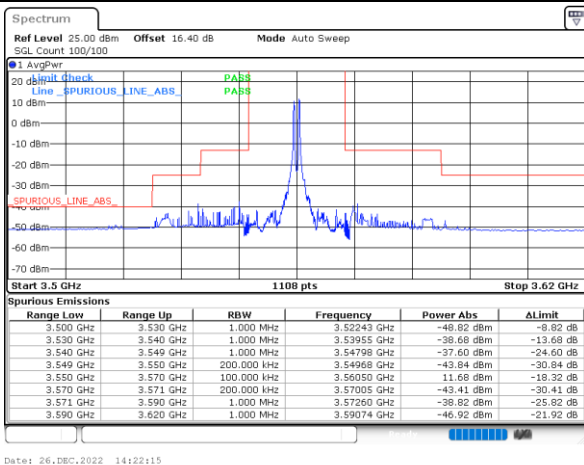
Lowest Band Edge / 1RB0 and 1RB49



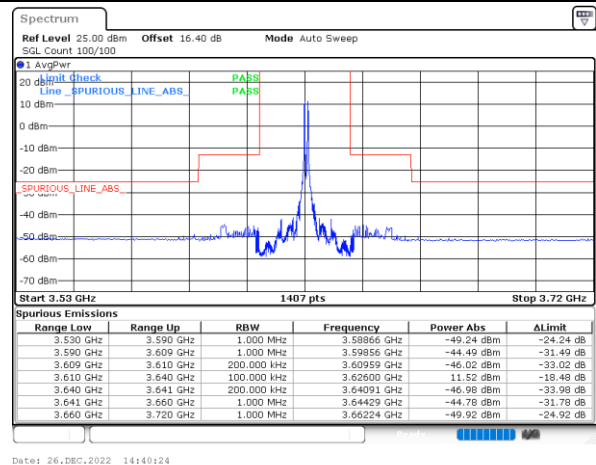
Middle Band Edge / 1RB0 and 1RB49



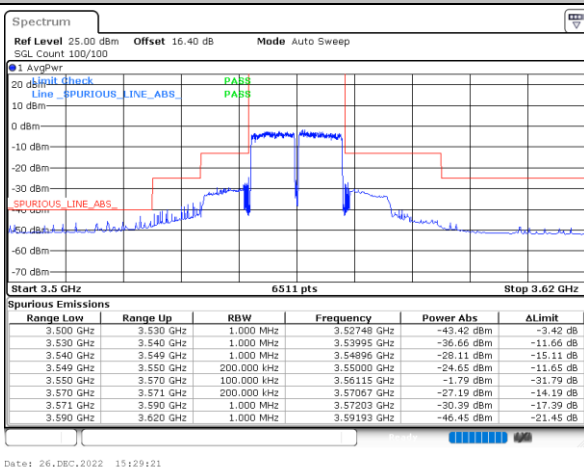
Lowest Band Edge / 1RB49 and 1RB0



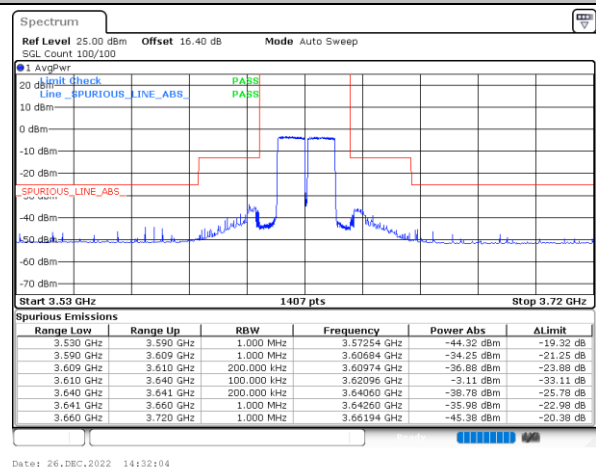
Middle Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB



Middle Band Edge / Full RB



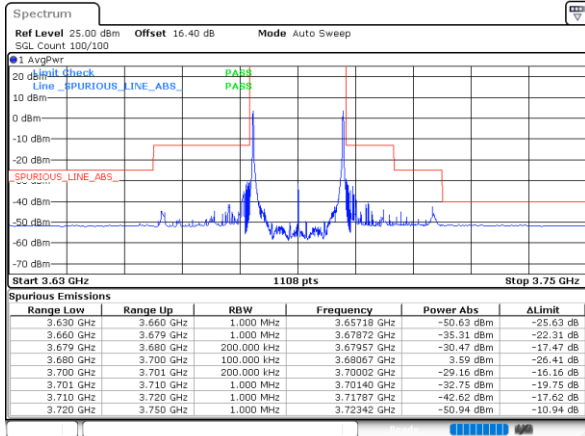


LTE Band 48B / 10MHz+10MHz

16QAM

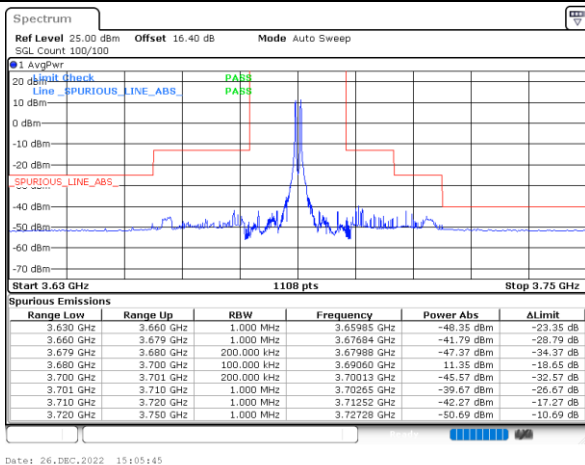
Highest Band Edge / 1RB0 and 1RB49

N/A



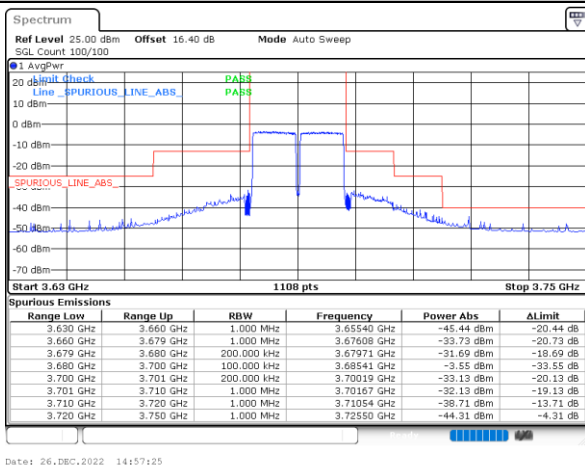
Highest Band Edge / 1RB49 and 1RB0

N/A



Highest Band Edge / Full RB

N/A

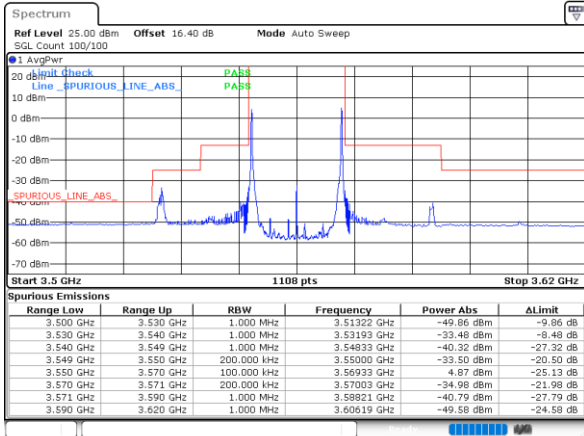




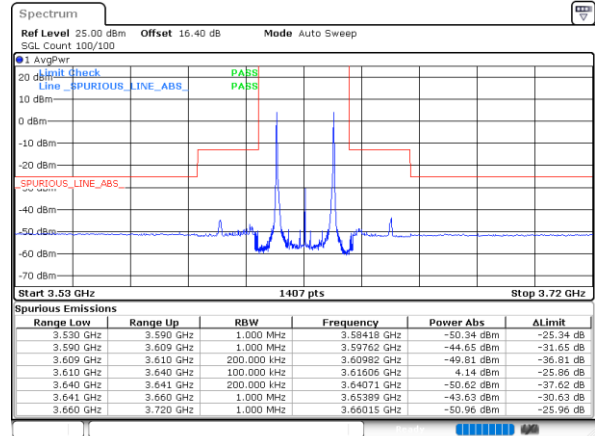
LTE Band 48B / 10MHz+10MHz

64QAM

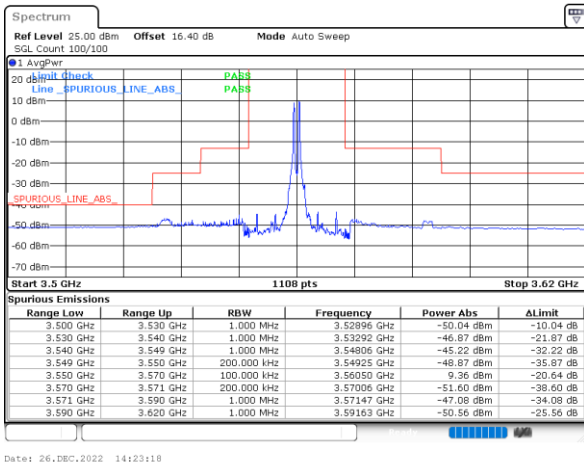
Lowest Band Edge / 1RB0 and 1RB49



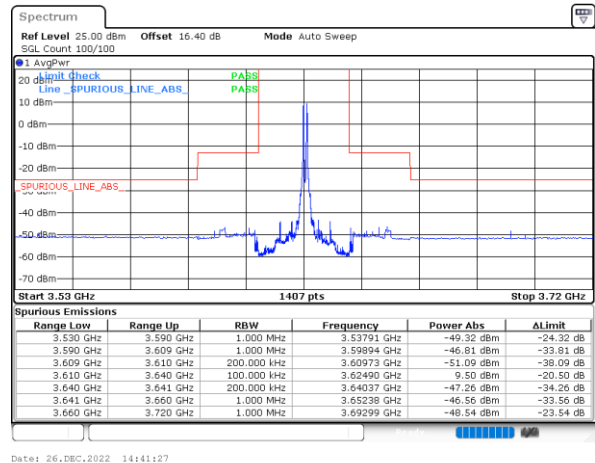
Middle Band Edge / 1RB0 and 1RB49



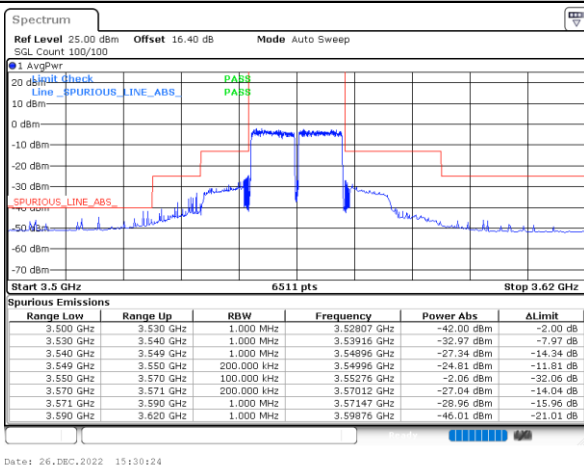
Lowest Band Edge / 1RB49 and 1RB0



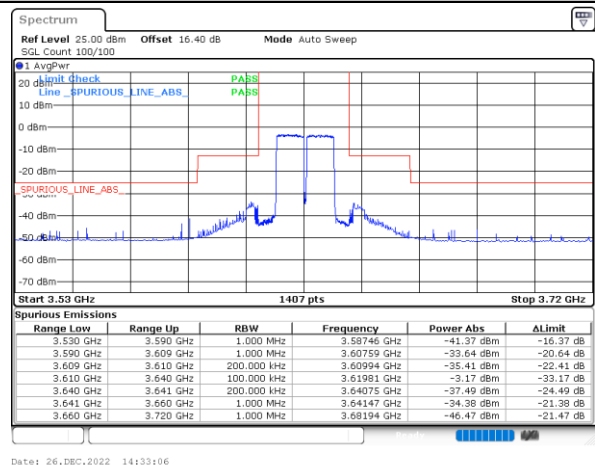
Middle Band Edge / 1RB49 and 1RB0

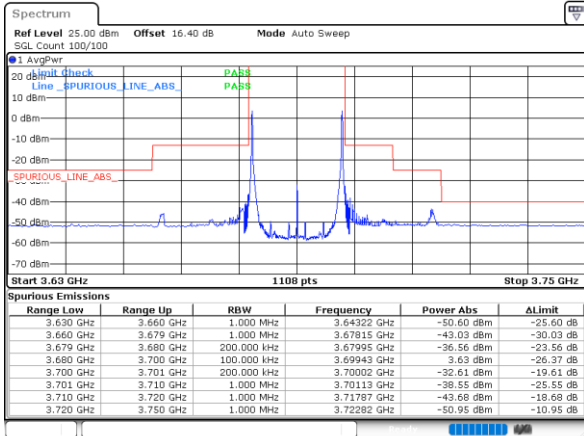
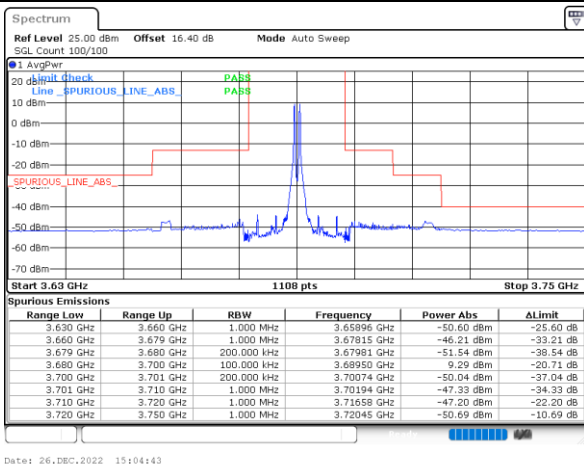
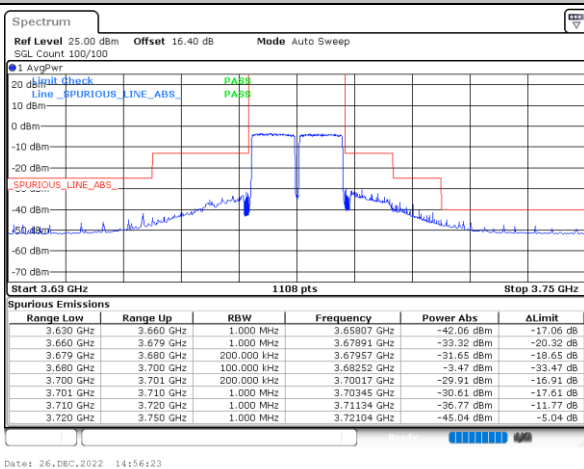


Lowest Band Edge / Full RB



Middle Band Edge / Full RB



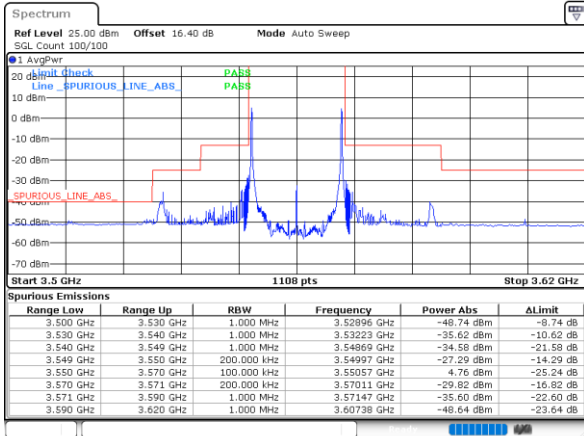
**LTE Band 48B / 10MHz+10MHz****64QAM****Highest Band Edge / 1RB0 and 1RB49****N/A****Highest Band Edge / 1RB49 and 1RB0****N/A****Highest Band Edge / Full RB****N/A**



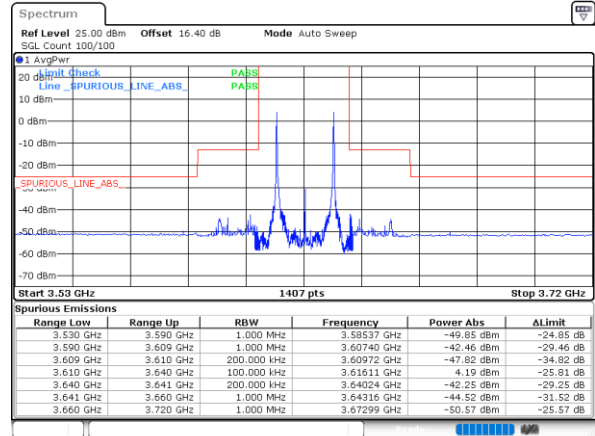
LTE Band 48B / 10MHz+10MHz

256QAM

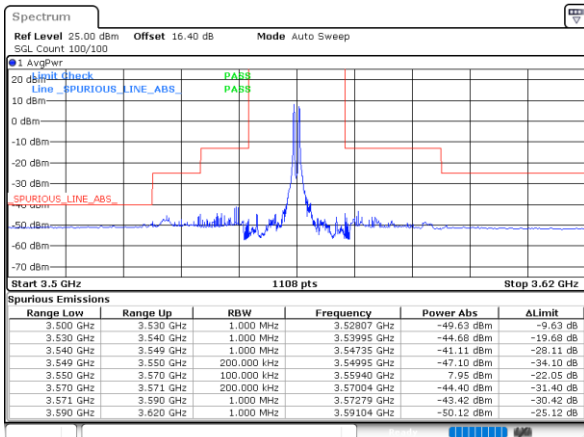
Lowest Band Edge / 1RB0 and 1RB49



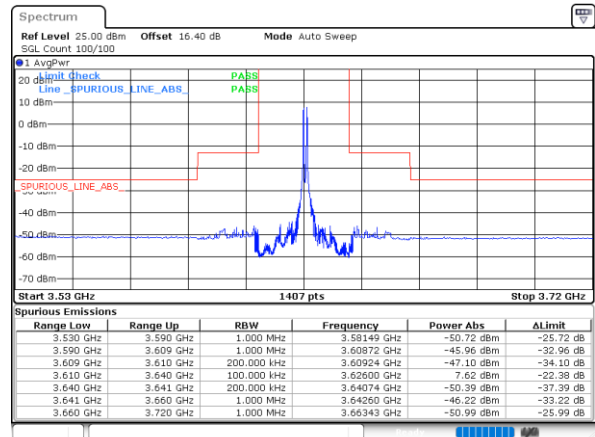
Middle Band Edge / 1RB0 and 1RB49



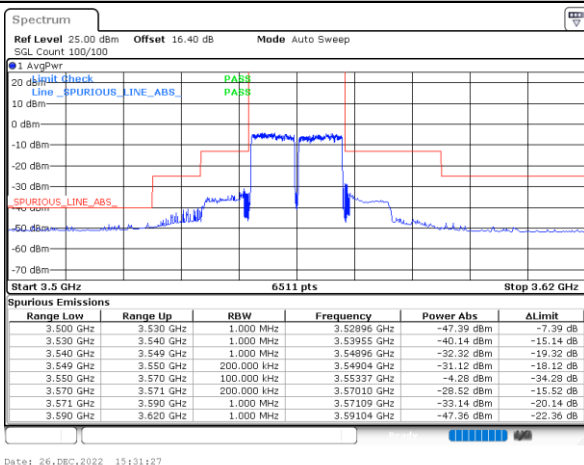
Lowest Band Edge / 1RB49 and 1RB0



Middle Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB



Middle Band Edge / Full RB

