

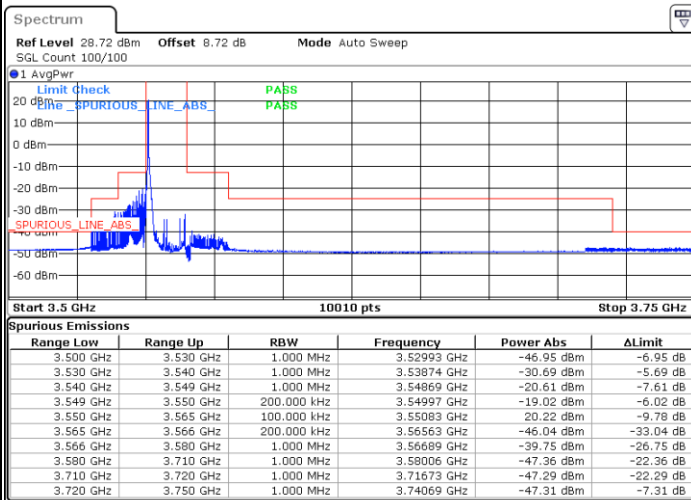


LTE Band 48 / 15MHz

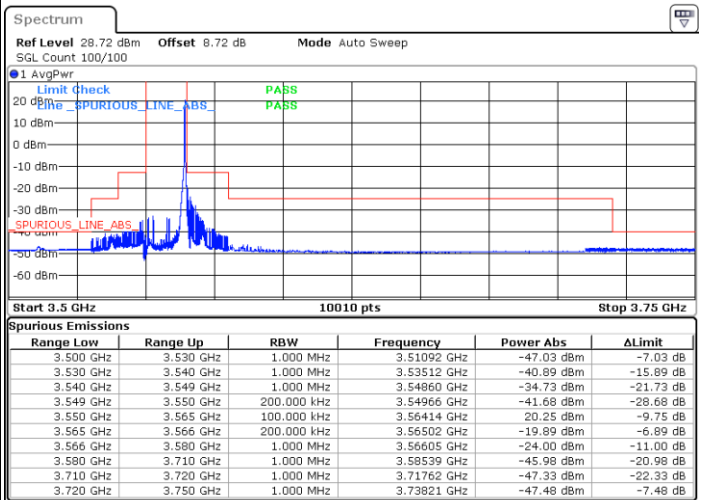
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



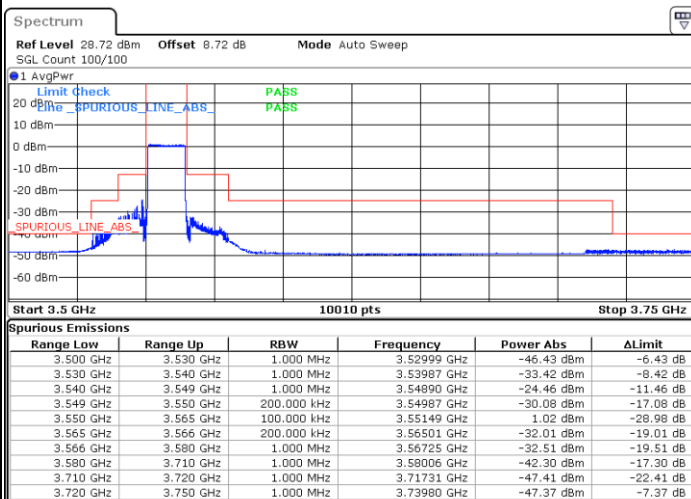
Date: 29.SEP.2022 16:56:22



Date: 29.SEP.2022 16:00:45

Lowest Channel / Full RB

N/A



Date: 29.SEP.2022 16:10:54

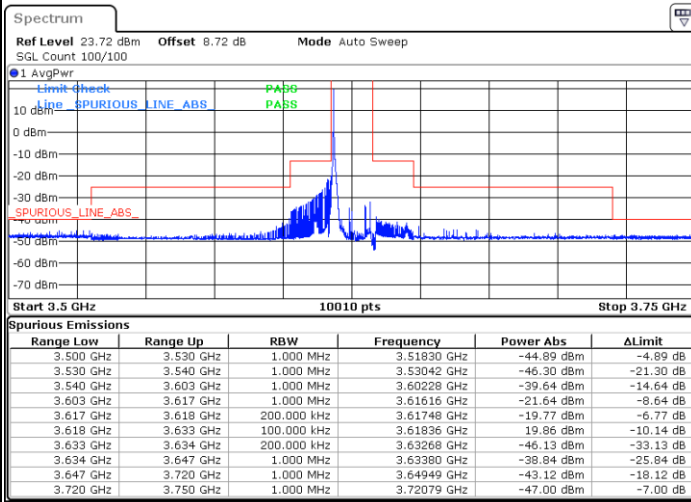


LTE Band 48 / 15MHz

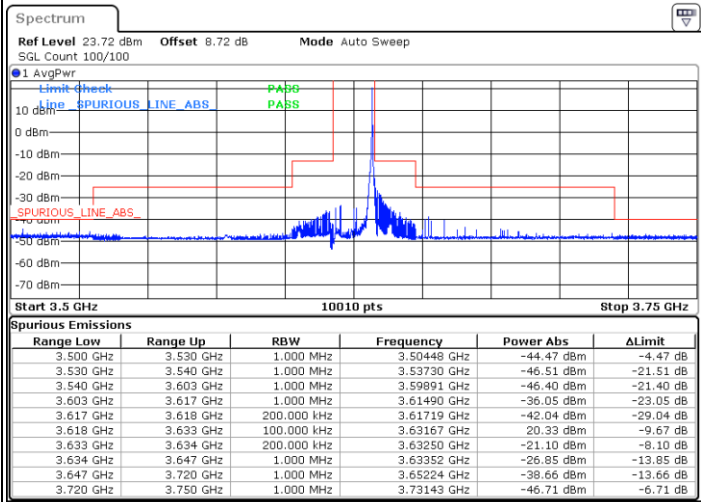
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



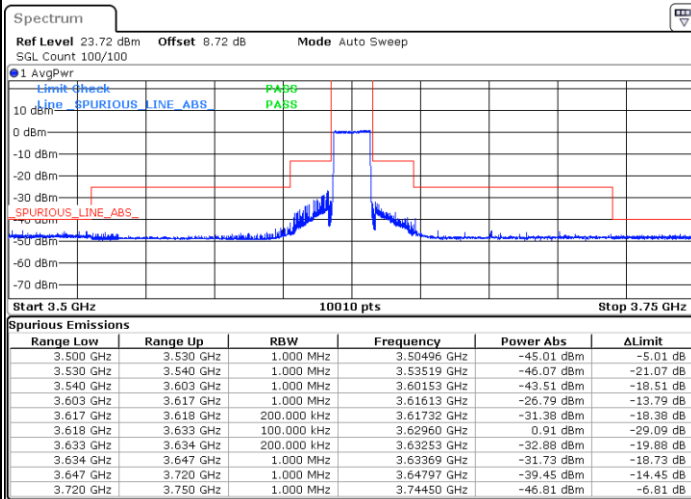
Date: 29.SEP.2022 16:12:54



Date: 29.SEP.2022 16:23:00

Middle Channel / Full RB

N/A



Date: 29.SEP.2022 16:25:02

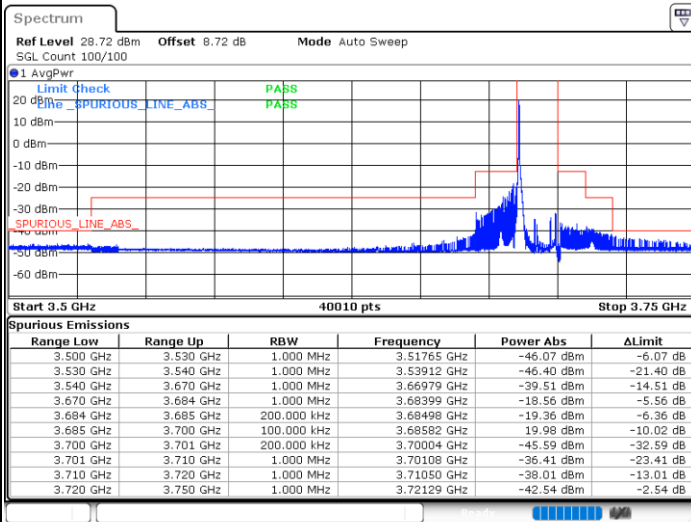


LTE Band 48 / 15MHz

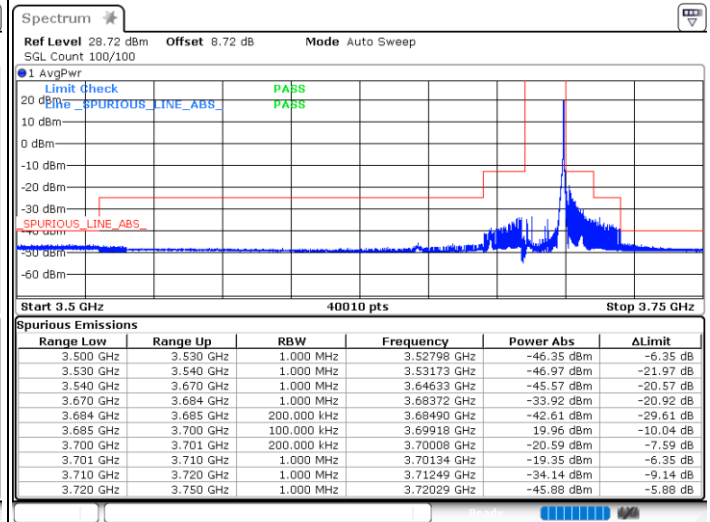
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



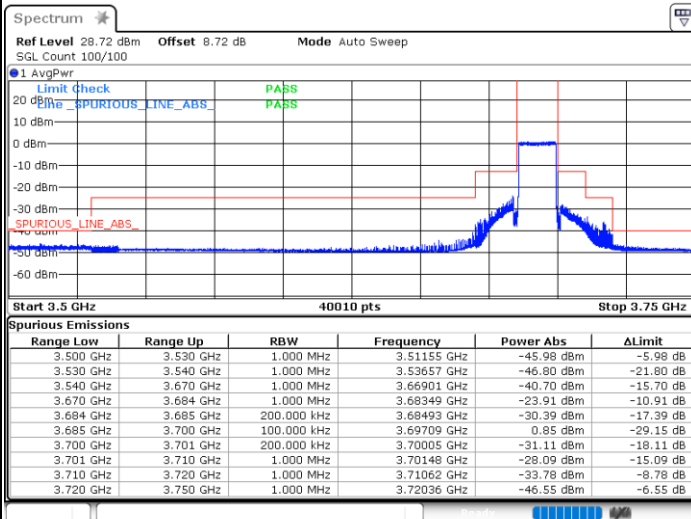
Date: 29.SEP.2022 16:31:06



Date: 29.SEP.2022 16:58:55

Highest Channel / Full RB

N/A



Date: 29.SEP.2022 17:09:11

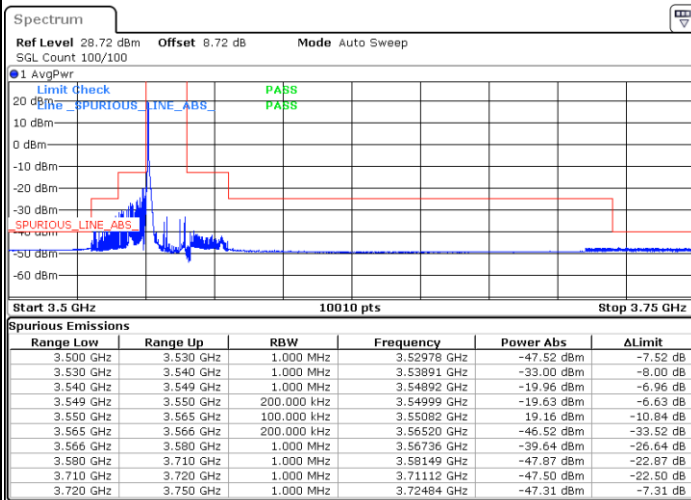


LTE Band 48 / 15MHz

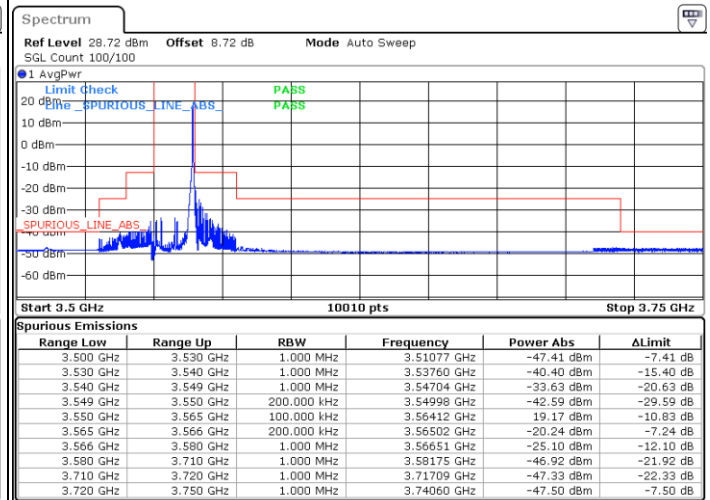
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



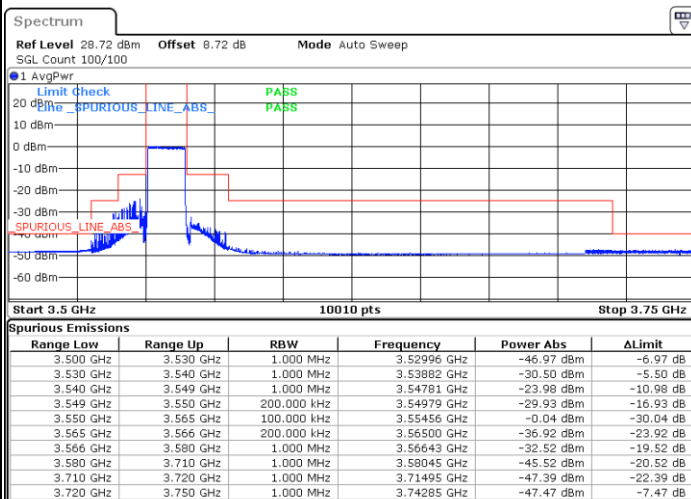
Date: 29.SEP.2022 15:56:42



Date: 29.SEP.2022 16:02:47

Lowest Channel / Full RB

N/A



Date: 29.SEP.2022 16:08:52

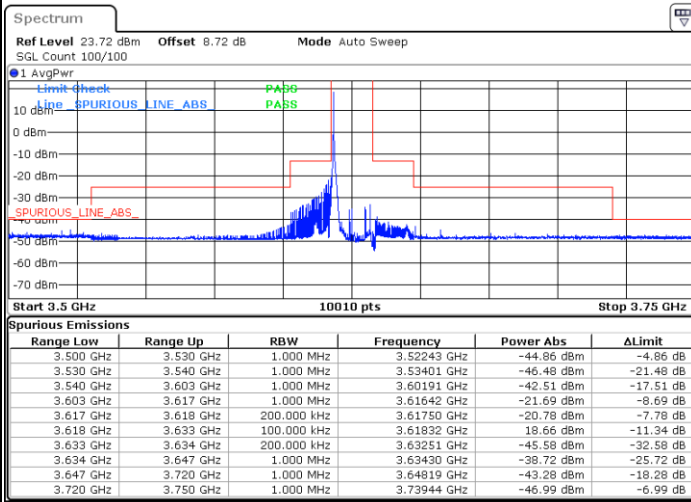


LTE Band 48 / 15MHz

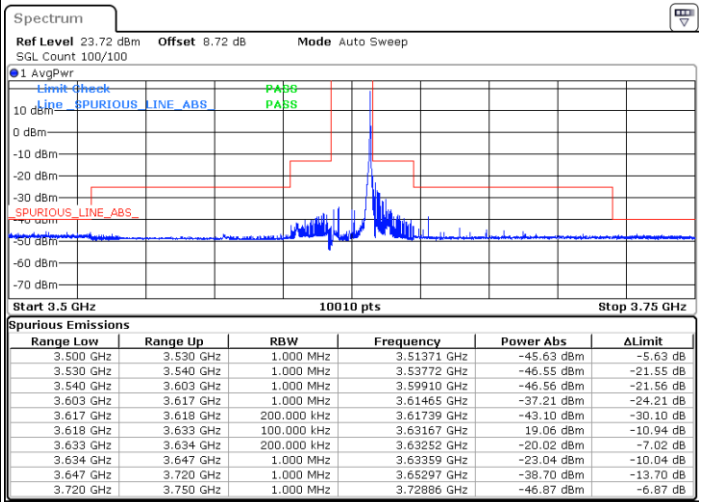
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



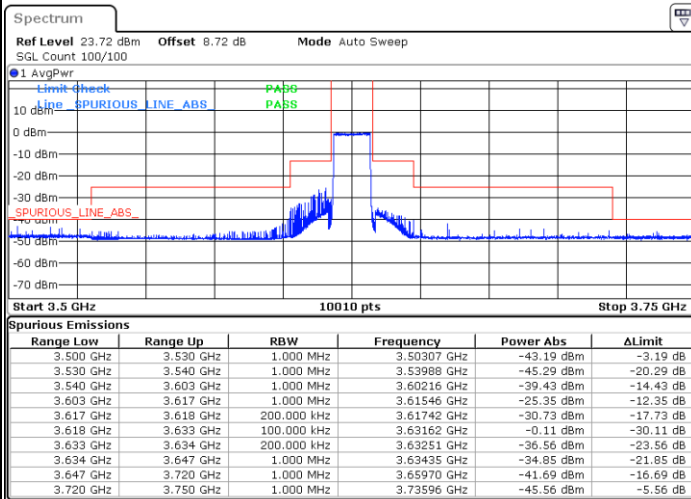
Date: 29.SEP.2022 16:14:55



Date: 29.SEP.2022 16:20:59

Middle Channel / Full RB

N/A



Date: 29.SEP.2022 16:27:03

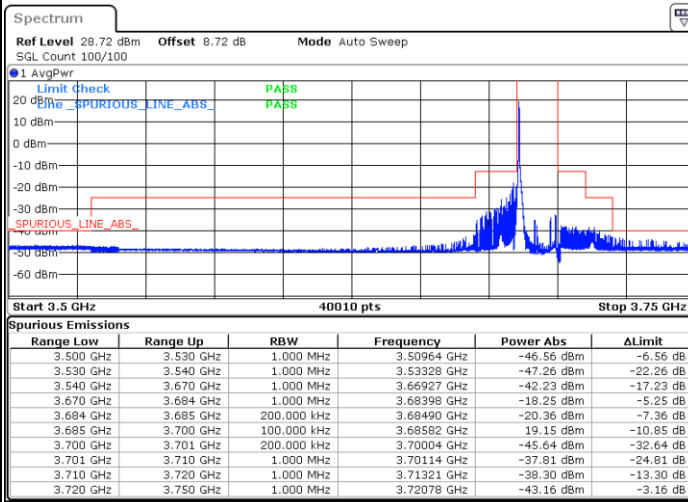


LTE Band 48 / 15MHz

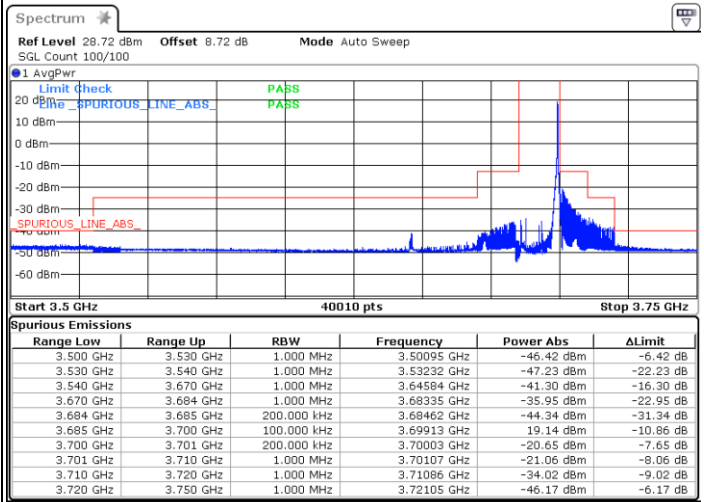
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



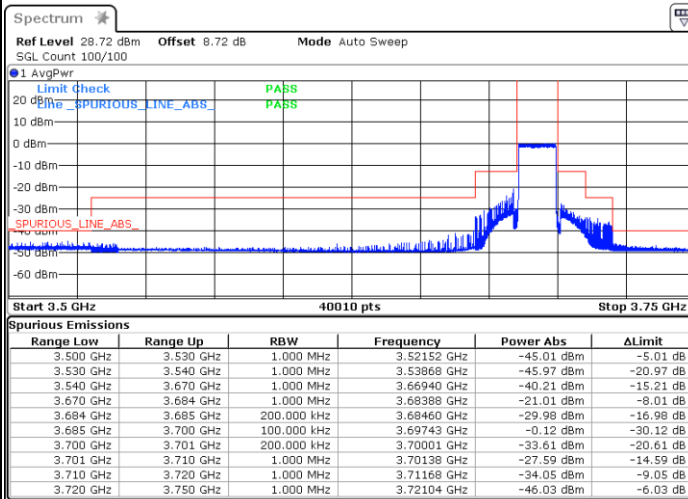
Date: 29.SEP.2022 16:33:06



Date: 29.SEP.2022 17:00:35

Highest Channel / Full RB

N/A



Date: 29.SEP.2022 17:07:32

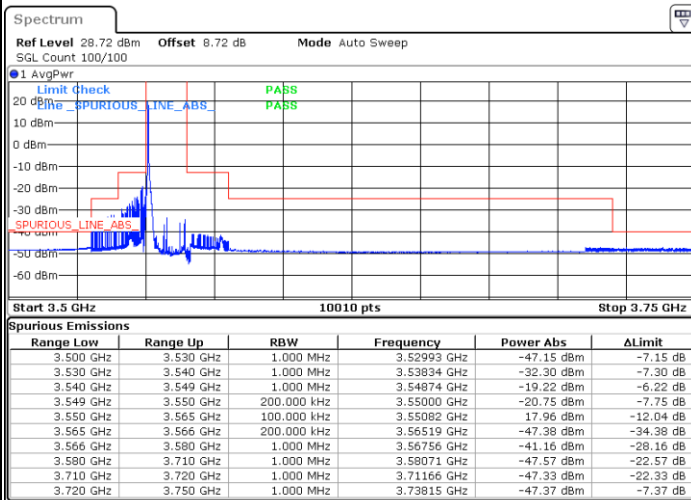


LTE Band 48 / 15MHz

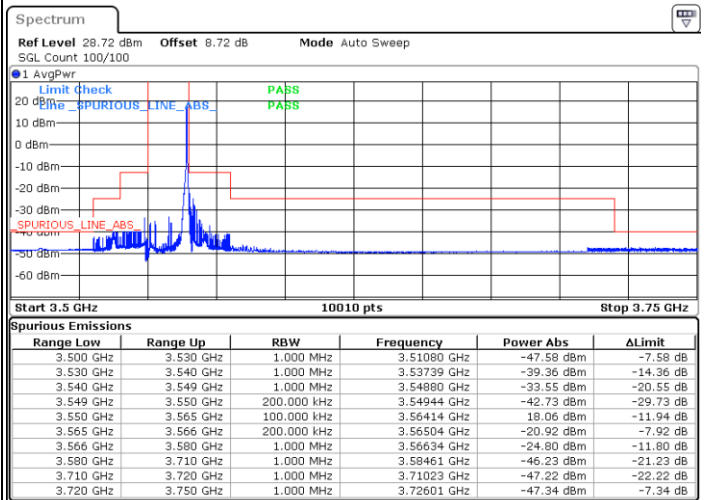
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



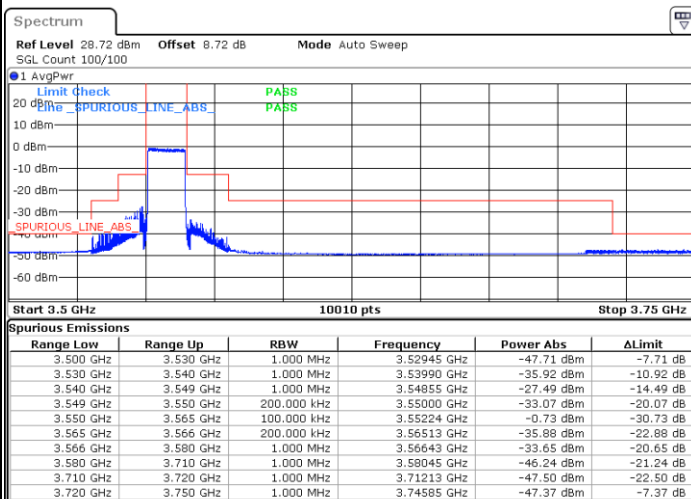
Date: 29.SEP.2022 15:58:43



Date: 29.SEP.2022 16:04:49

Lowest Channel / Full RB

N/A



Date: 29.SEP.2022 16:06:50

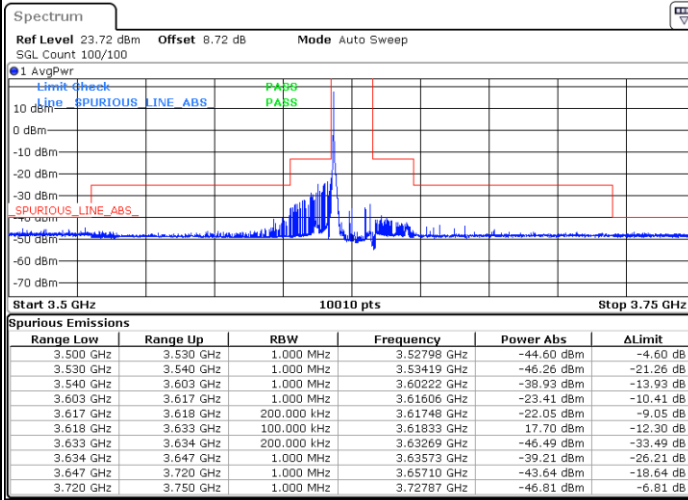


LTE Band 48 / 15MHz

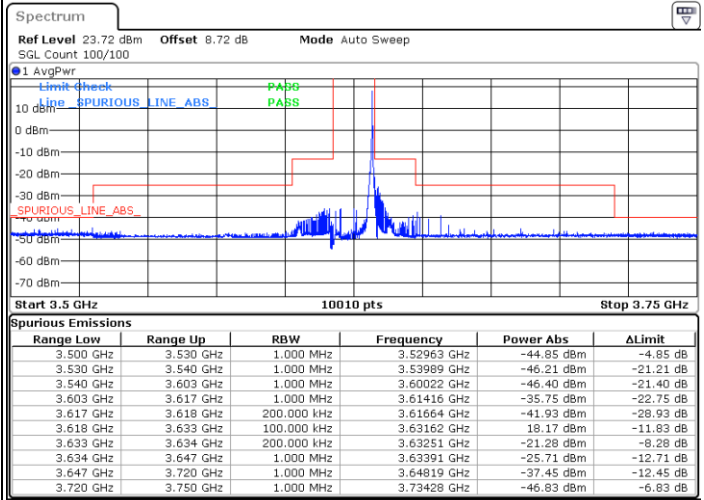
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



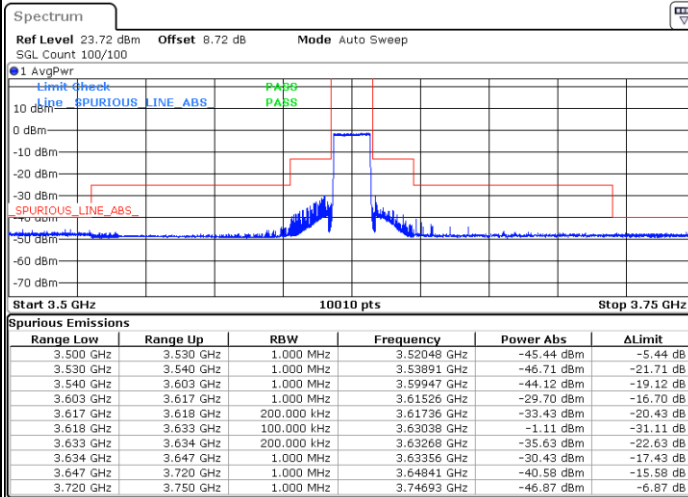
Date: 29.SEP.2022 16:16:57



Date: 29.SEP.2022 16:18:59

Middle Channel / Full RB

N/A



Date: 29.SEP.2022 16:29:05

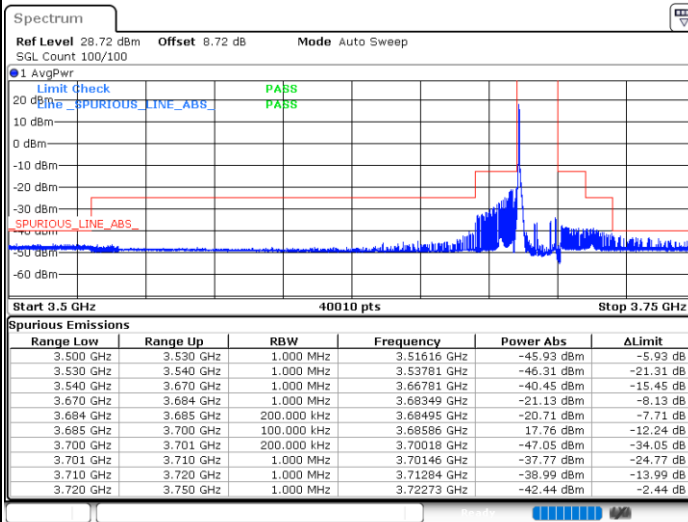


LTE Band 48 / 15MHz

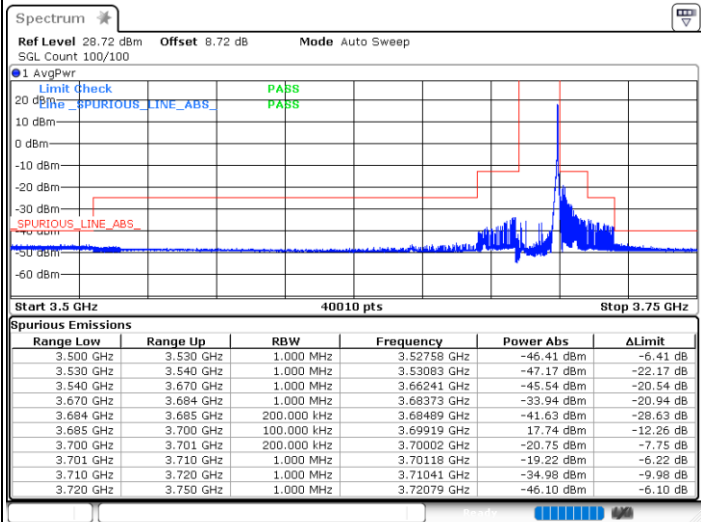
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



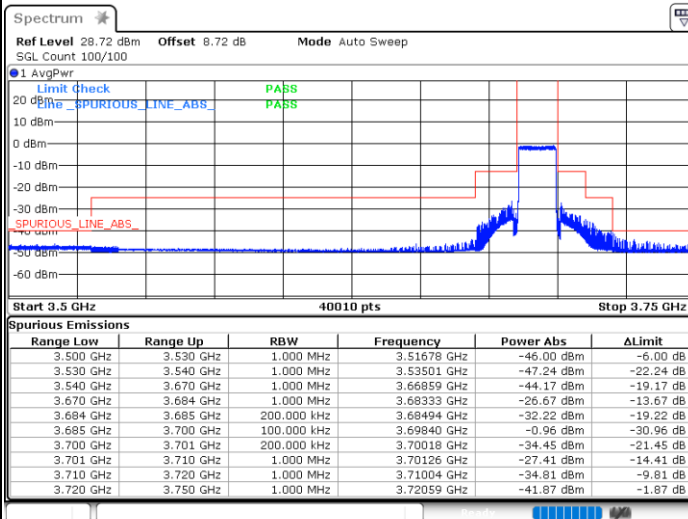
Date: 29.SEP.2022 16:35:09



Date: 29.SEP.2022 17:03:10

Highest Channel / Full RB

N/A



Date: 29.SEP.2022 17:04:53

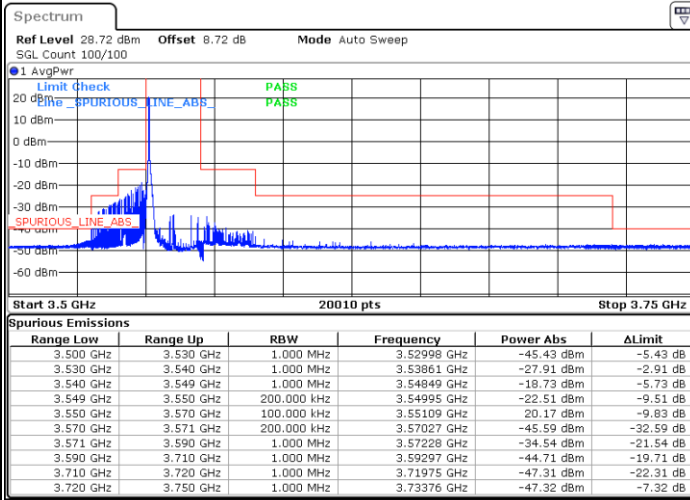


LTE Band 48 / 20MHz

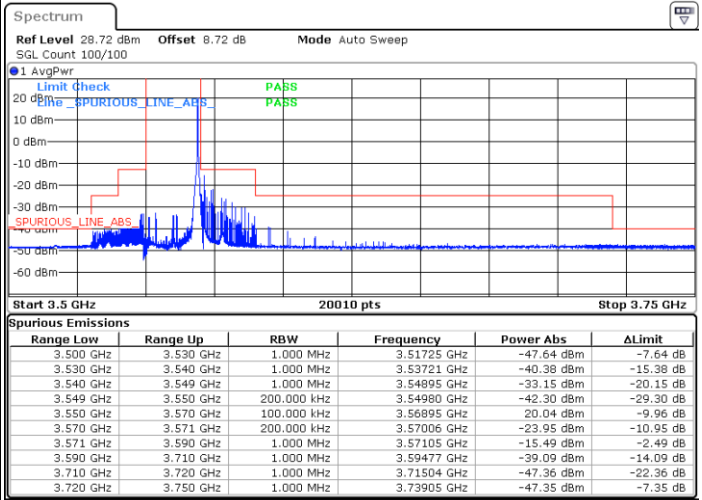
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



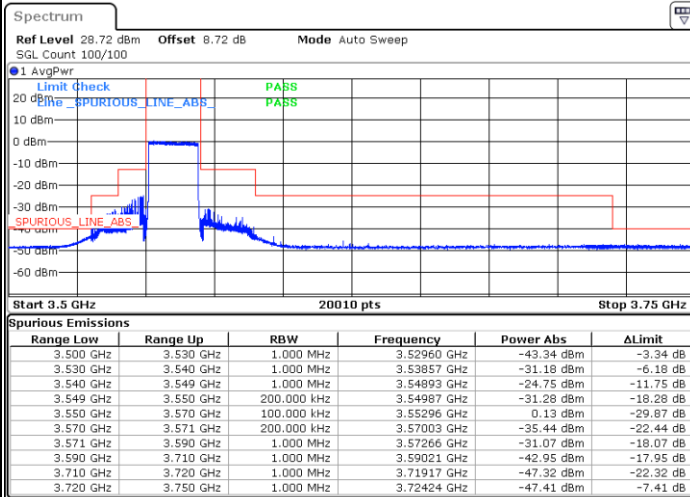
Date: 29.SEP.2022 17:12:58



Date: 29.SEP.2022 17:23:15

Lowest Channel / Full RB

N/A



Date: 29.SEP.2022 17:25:25

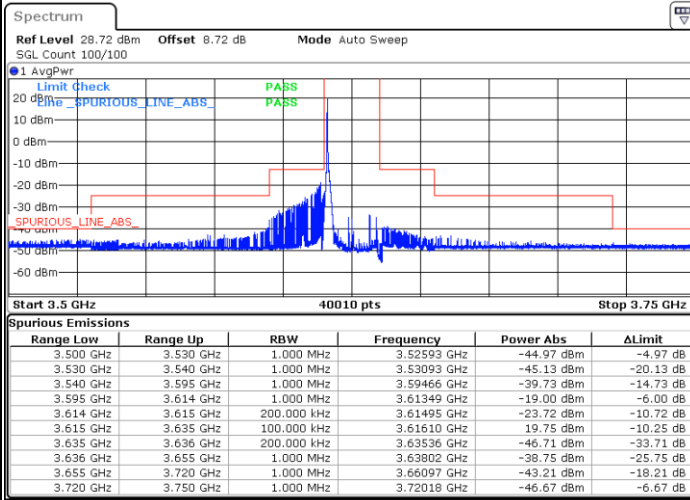


LTE Band 48 / 20MHz

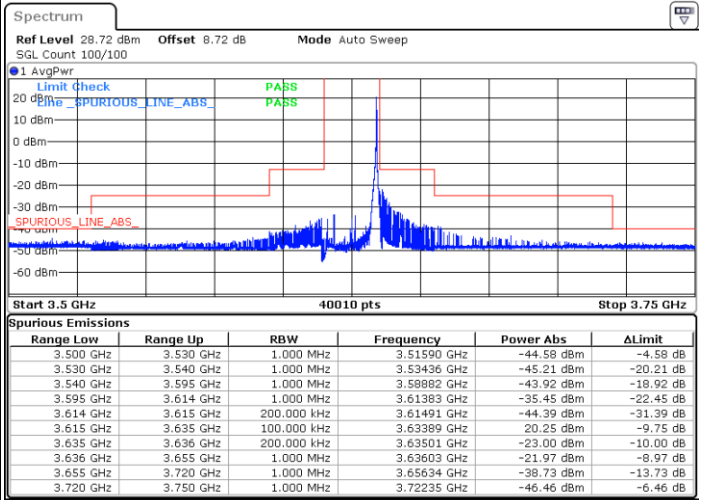
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



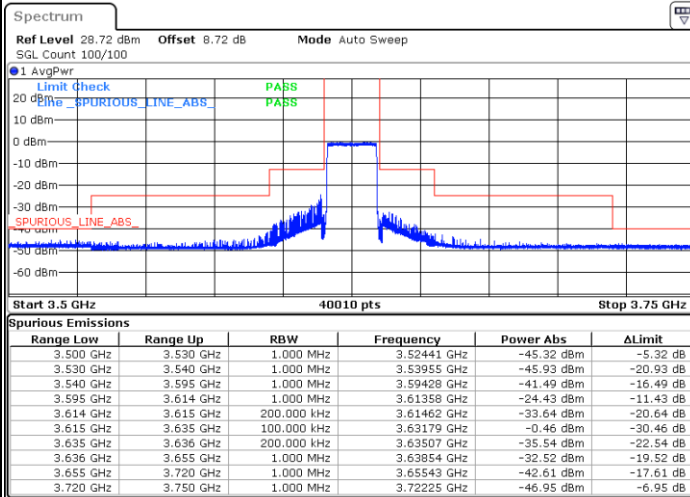
Date: 29.SEP.2022 17:31:31



Date: 29.SEP.2022 17:41:38

Middle Channel / Full RB

N/A



Date: 29.SEP.2022 17:43:38

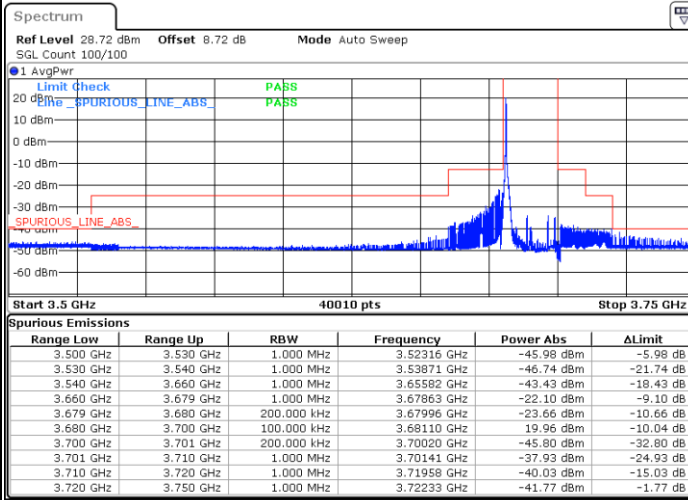


LTE Band 48 / 20MHz

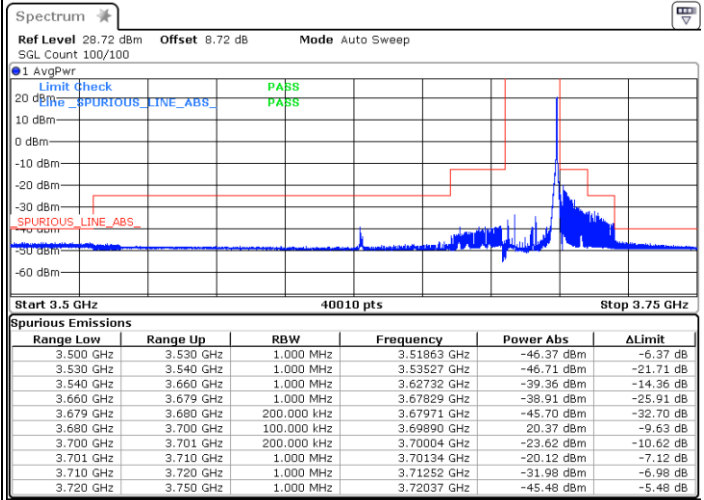
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



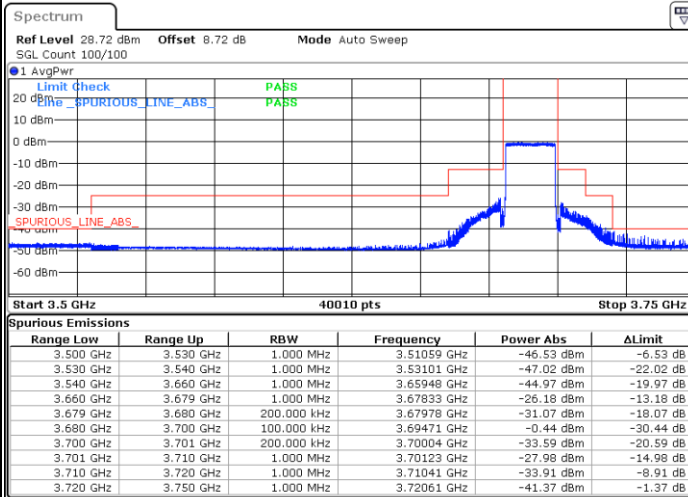
Date: 29.SEP.2022 18:23:41



Date: 29.SEP.2022 18:21:53

Highest Channel / Full RB

N/A



Date: 29.SEP.2022 18:01:52

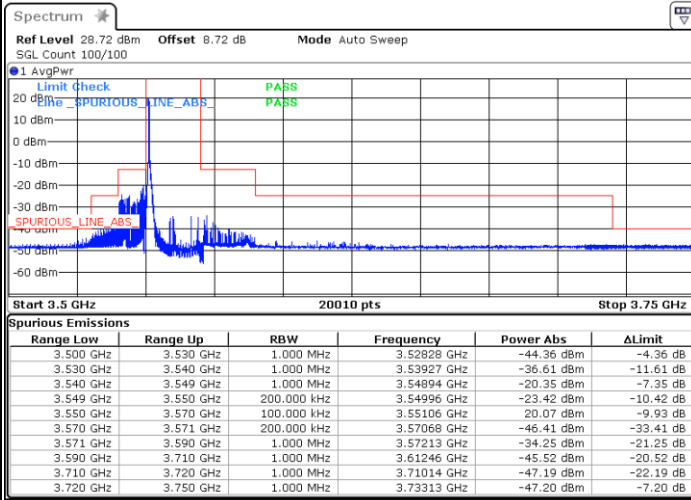


LTE Band 48 / 20MHz

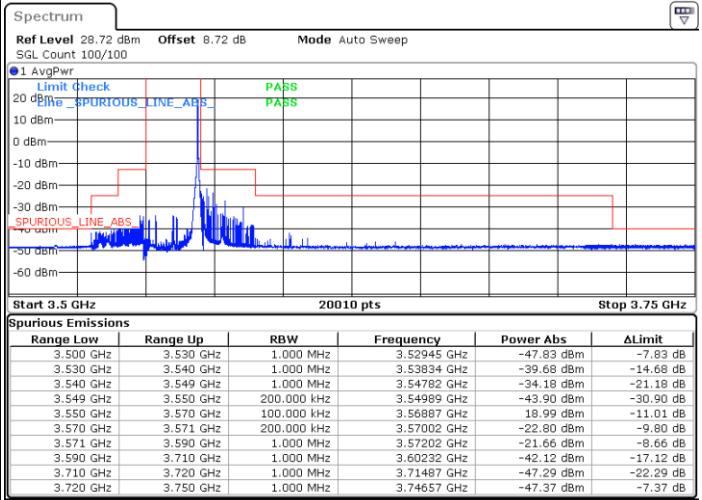
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



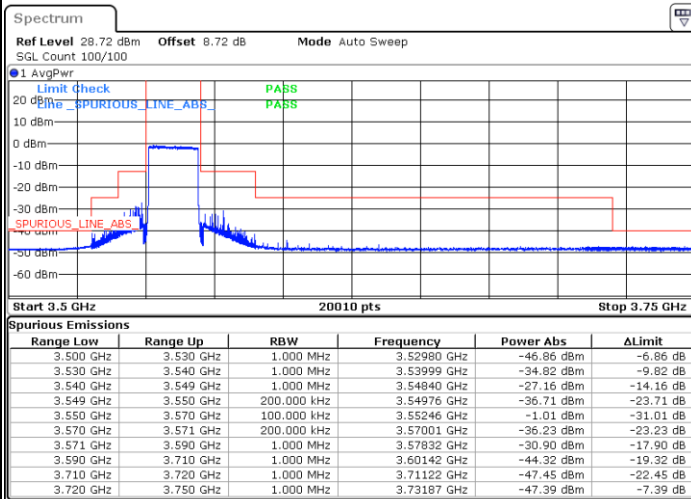
Date: 29.SEP.2022 17:15:03



Date: 29.SEP.2022 17:21:08

Lowest Channel / Full RB

N/A



Date: 29.SEP.2022 17:27:27

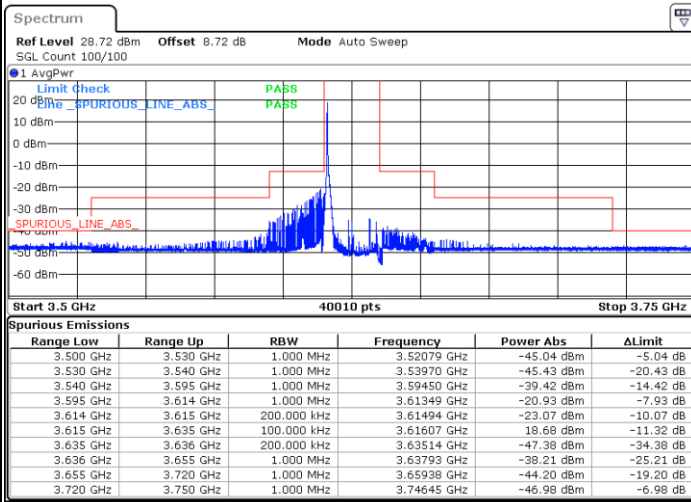


LTE Band 48 / 20MHz

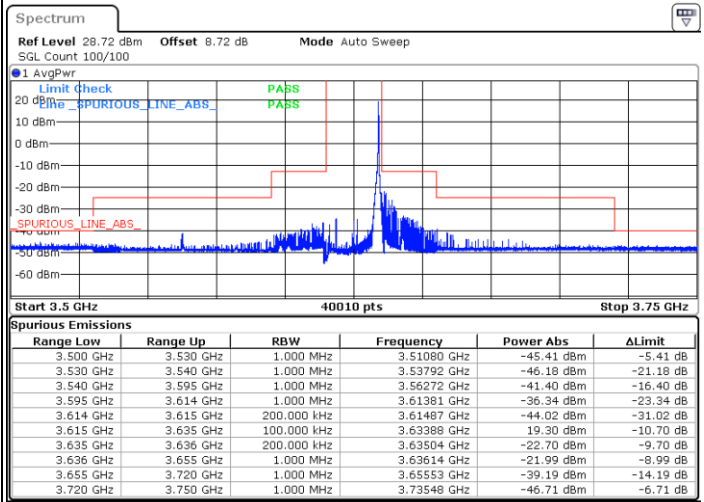
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



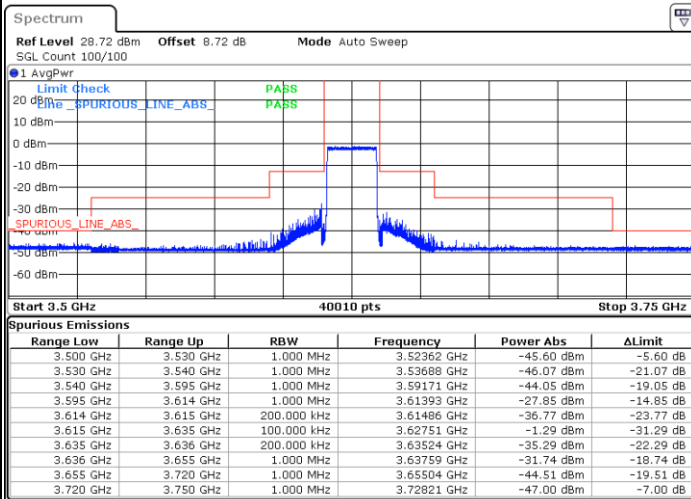
Date: 29.SEP.2022 17:33:33



Date: 29.SEP.2022 17:39:38

Middle Channel / Full RB

N/A



Date: 29.SEP.2022 17:45:39

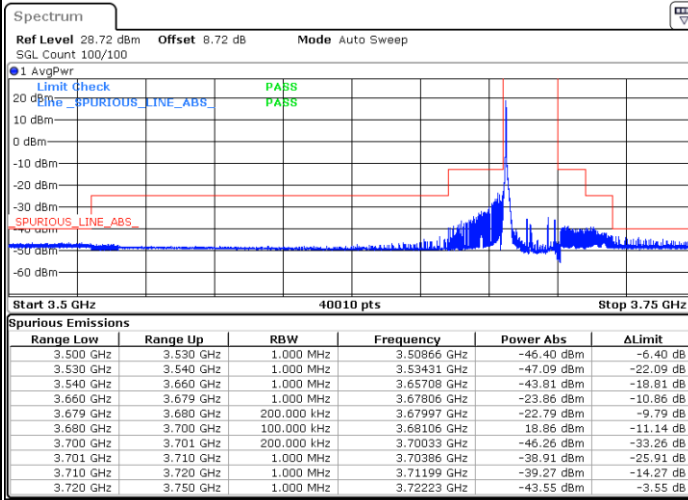


LTE Band 48 / 20MHz

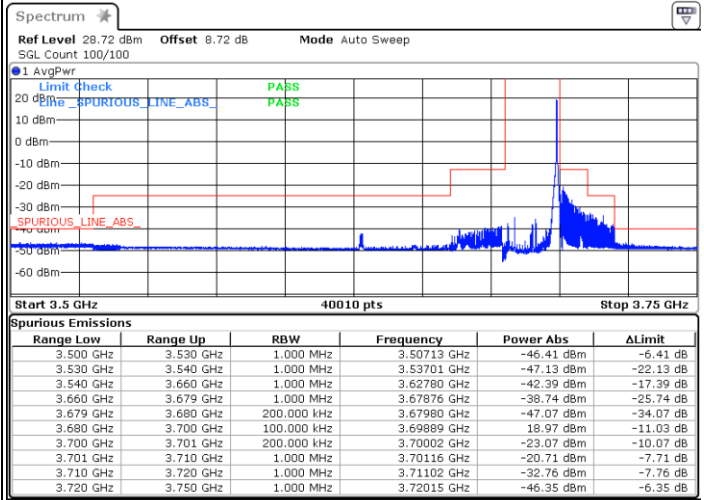
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



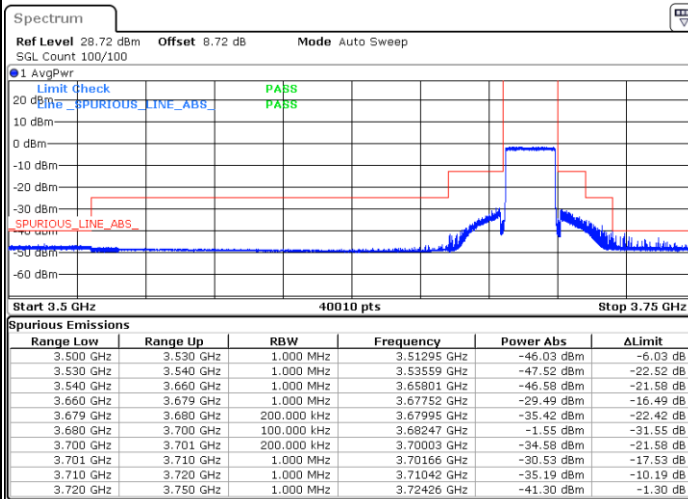
Date: 29.SEP.2022 17:51:43



Date: 29.SEP.2022 18:20:12

Highest Channel / Full RB

N/A



Date: 29.SEP.2022 18:03:54

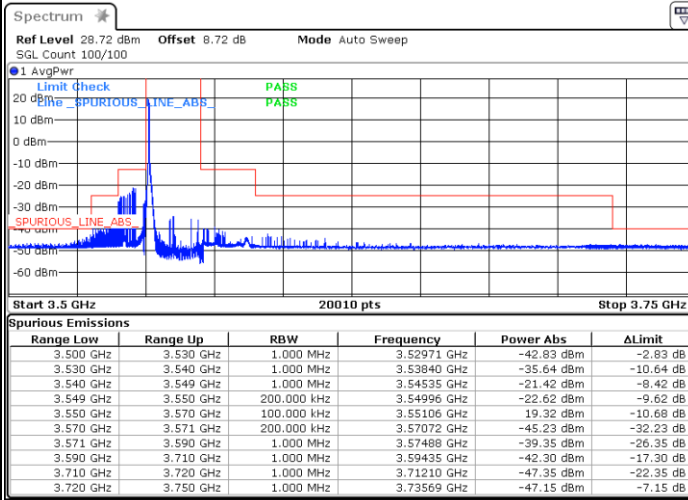


LTE Band 48 / 20MHz

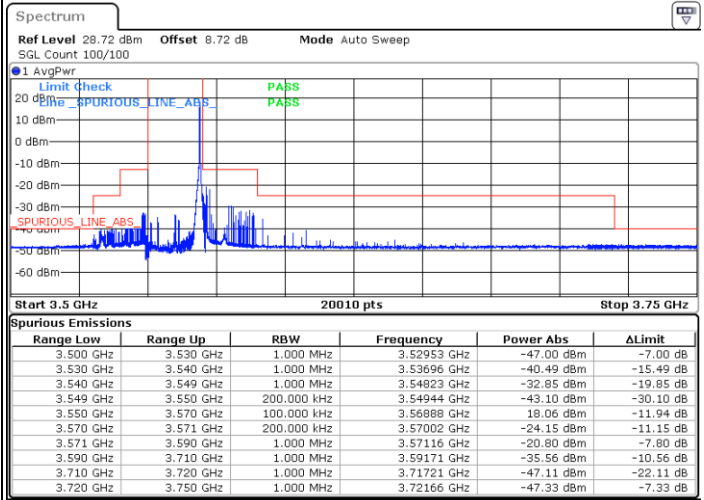
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



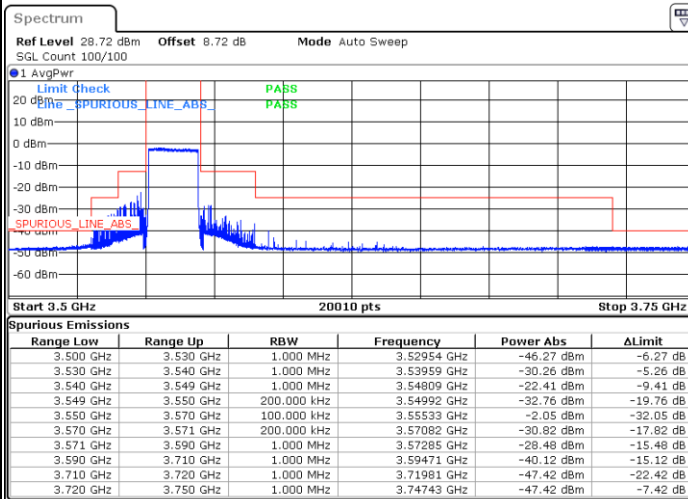
Date: 29.SEP.2022 17:17:05



Date: 29.SEP.2022 17:19:07

Lowest Channel / Full RB

N/A



Date: 29.SEP.2022 17:29:30

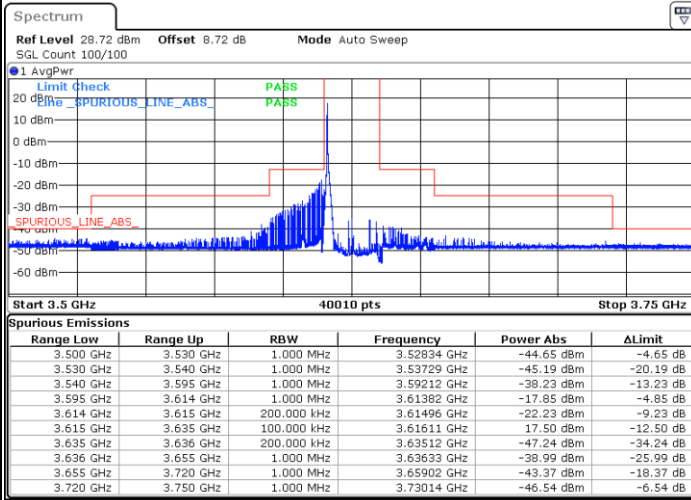


LTE Band 48 / 20MHz

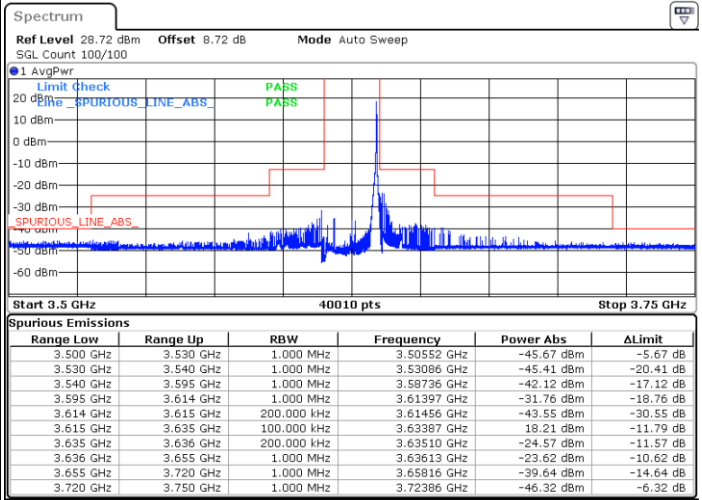
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



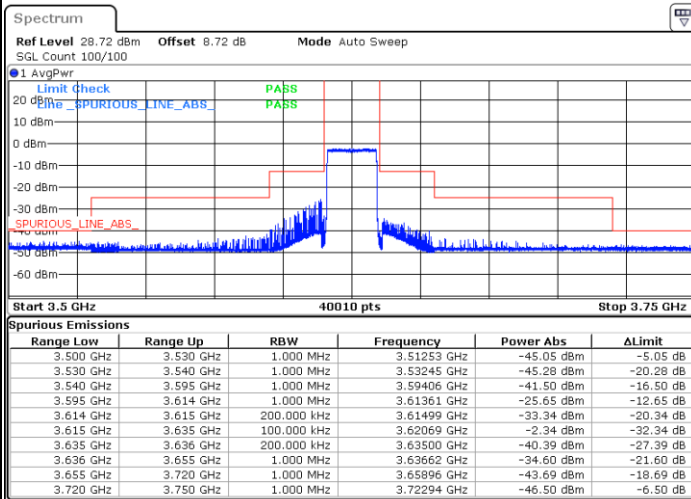
Date: 29.SEP.2022 17:35:35



Date: 29.SEP.2022 17:37:36

Middle Channel / Full RB

N/A



Date: 29.SEP.2022 17:47:40

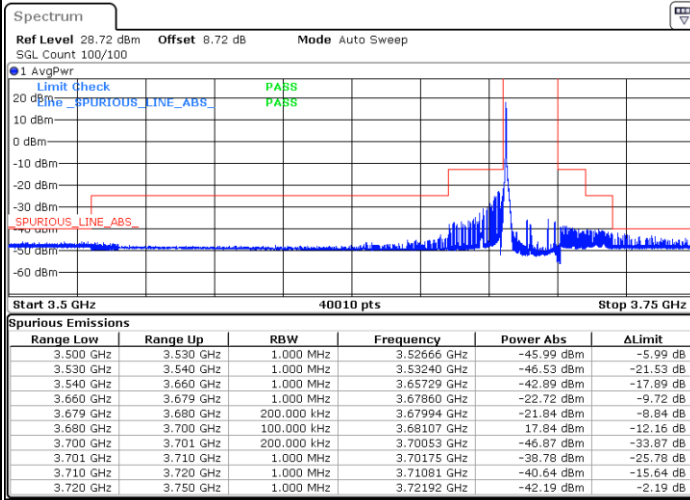


LTE Band 48 / 20MHz

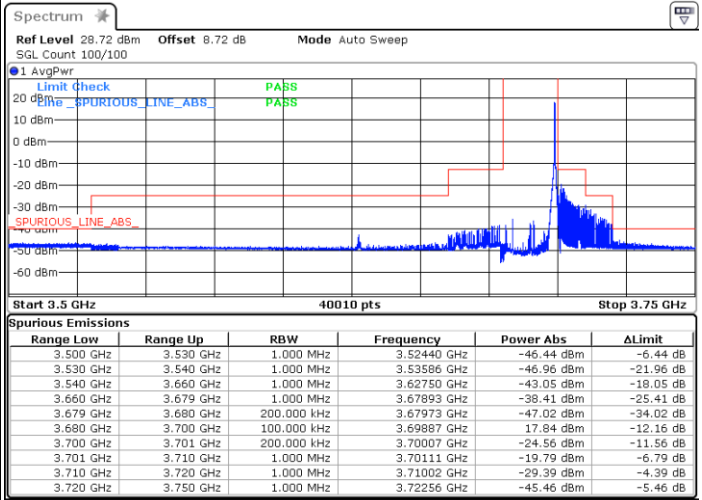
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



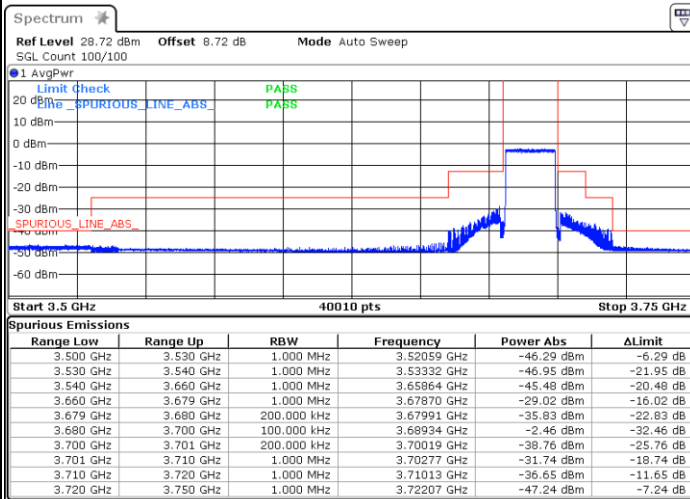
Date: 29.SEP.2022 17:53:46



Date: 29.SEP.2022 18:11:27

Highest Channel / Full RB

N/A



Date: 29.SEP.2022 18:09:10



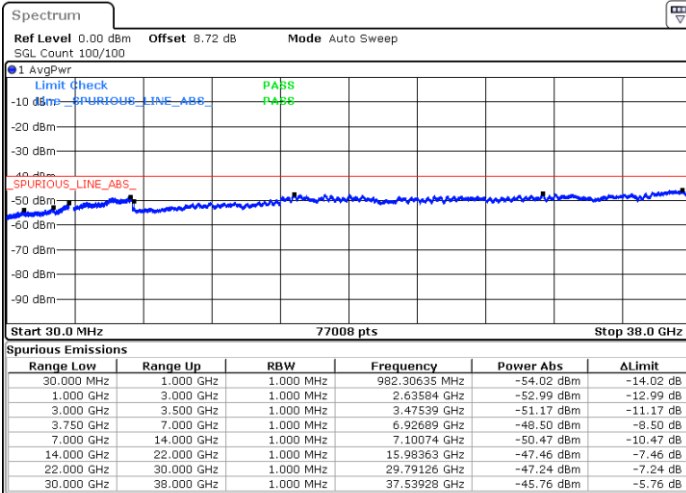
Conducted Spurious Emission

LTE Band 48 / 5MHz

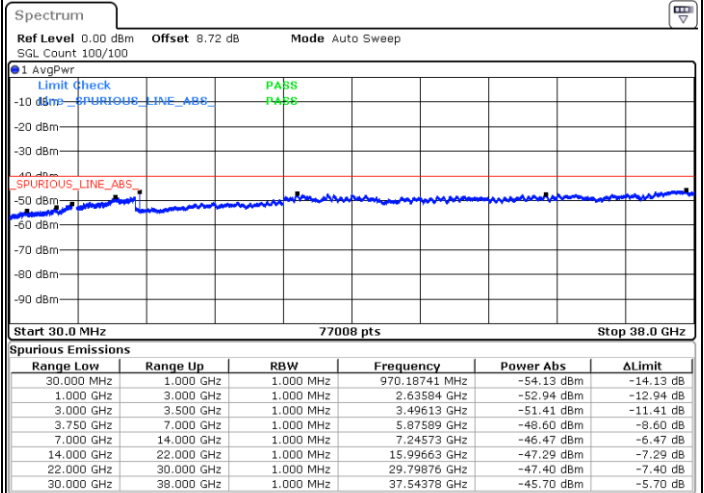
QPSK / 1RB0

Lowest Channel

Middle Channel

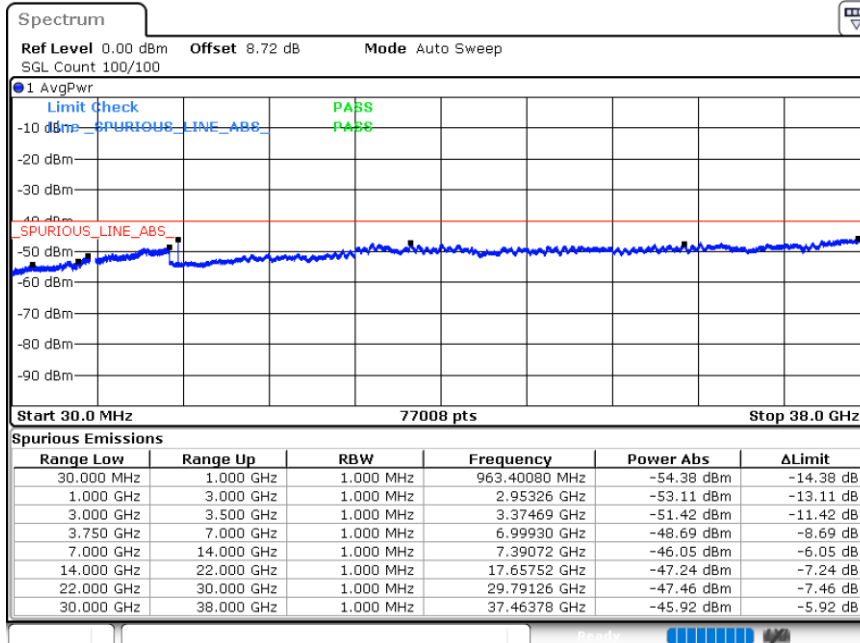


Date: 29.SEP.2022 19:48:41



Date: 29.SEP.2022 19:50:22

Highest Channel



Date: 29.SEP.2022 19:52:04



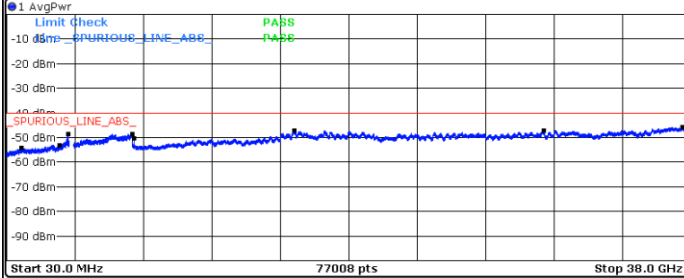
LTE Band 48 / 10MHz

QPSK / 1RB0

Lowest Channel

Middle Channel

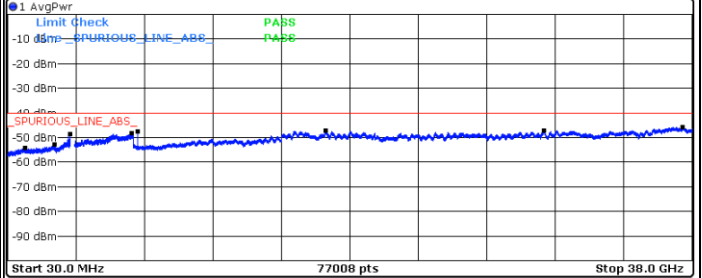
Spectrum

Ref Level 0.00 dBm Offset 8.72 dB Mode Auto Sweep
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	855.29985 MHz	-54.25 dBm	-14.25 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95126 GHz	-53.05 dBm	-13.05 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.46489 GHz	-48.49 dBm	-8.49 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.99280 GHz	-48.53 dBm	-8.53 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.10124 GHz	-50.52 dBm	-10.52 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.97613 GHz	-47.15 dBm	-7.15 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.81676 GHz	-47.24 dBm	-7.24 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.51178 GHz	-45.70 dBm	-5.70 dB

Date: 29.SEP.2022 19:53:46

Spectrum

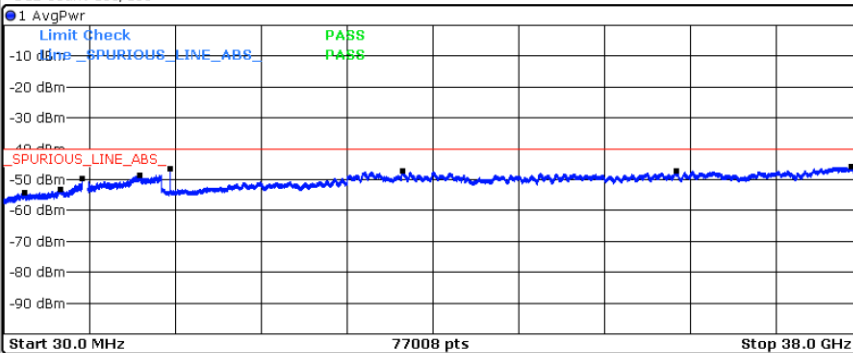
Ref Level 0.00 dBm Offset 8.72 dB Mode Auto Sweep
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	989.57771 MHz	-54.34 dBm	-14.34 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63784 GHz	-52.91 dBm	-12.91 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.49838 GHz	-48.68 dBm	-8.68 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.91760 GHz	-48.35 dBm	-8.35 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.24123 GHz	-47.66 dBm	-7.66 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.65702 GHz	-47.24 dBm	-7.24 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.80126 GHz	-47.24 dBm	-7.24 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.48528 GHz	-45.73 dBm	-5.73 dB

Date: 29.SEP.2022 19:55:28

Highest Channel

Spectrum

Ref Level 0.00 dBm Offset 8.72 dB Mode Auto Sweep
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	956.12944 MHz	-54.23 dBm	-14.23 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.52987 GHz	-53.09 dBm	-13.09 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.48038 GHz	-49.61 dBm	-9.61 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.02212 GHz	-48.66 dBm	-8.66 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.38122 GHz	-46.54 dBm	-6.54 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.68902 GHz	-47.34 dBm	-7.34 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.79976 GHz	-47.25 dBm	-7.25 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.52928 GHz	-45.82 dBm	-5.82 dB

Date: 29.SEP.2022 19:57:11

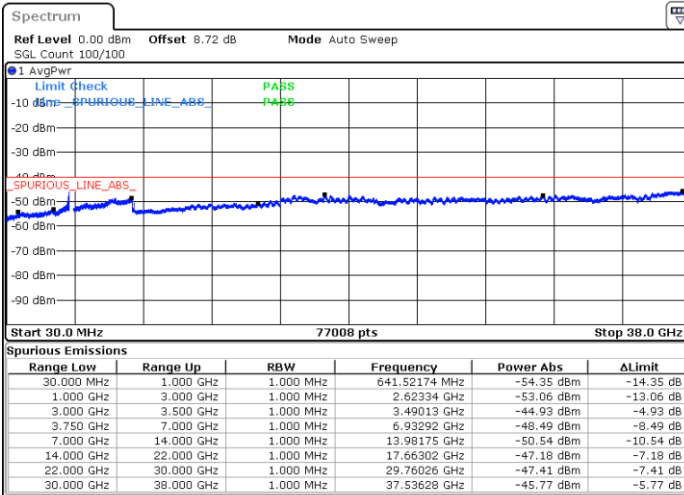


LTE Band 48 / 15MHz

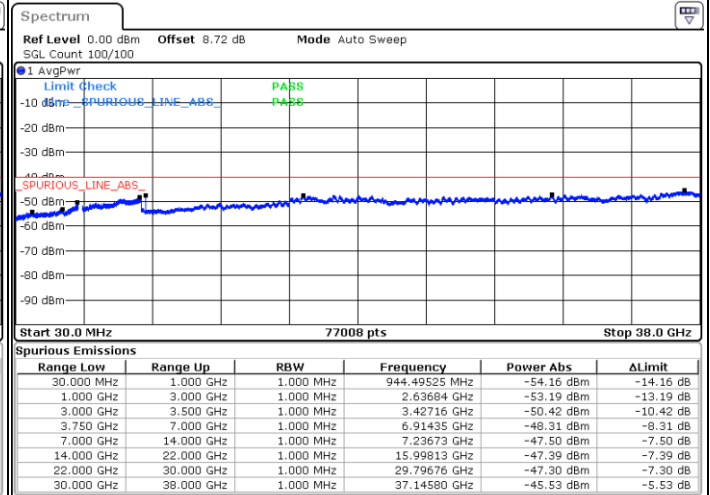
QPSK / 1RB0

Lowest Channel

Middle Channel

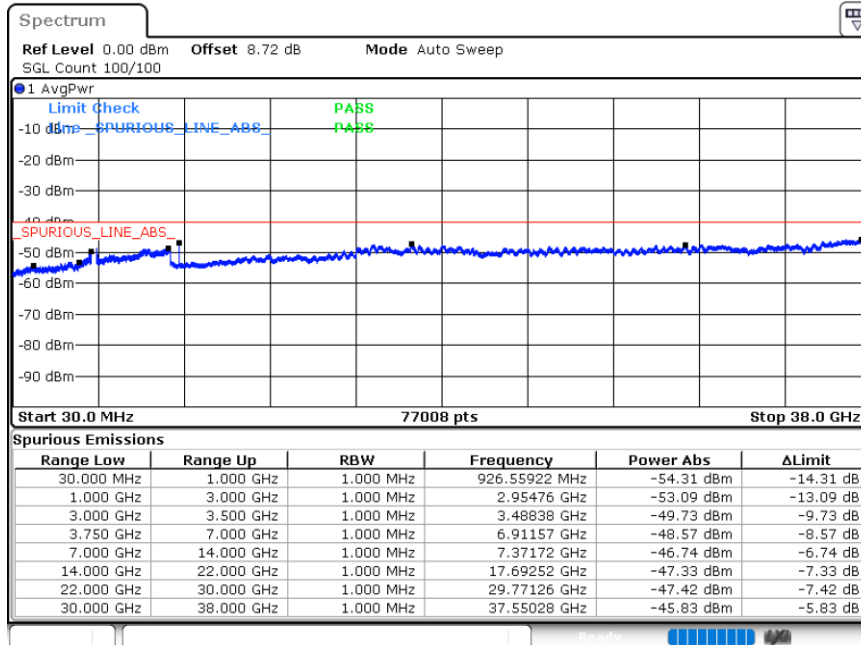


Date: 29.SEP.2022 19:58:53



Date: 29.SEP.2022 20:00:35

Highest Channel



Date: 29.SEP.2022 20:02:16

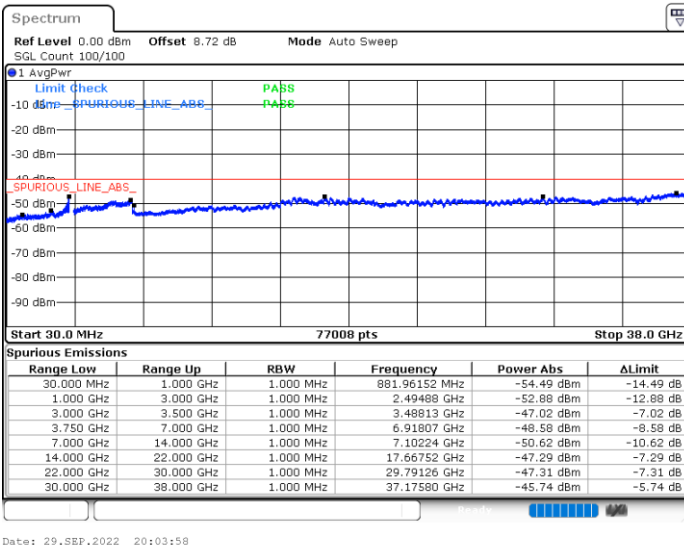
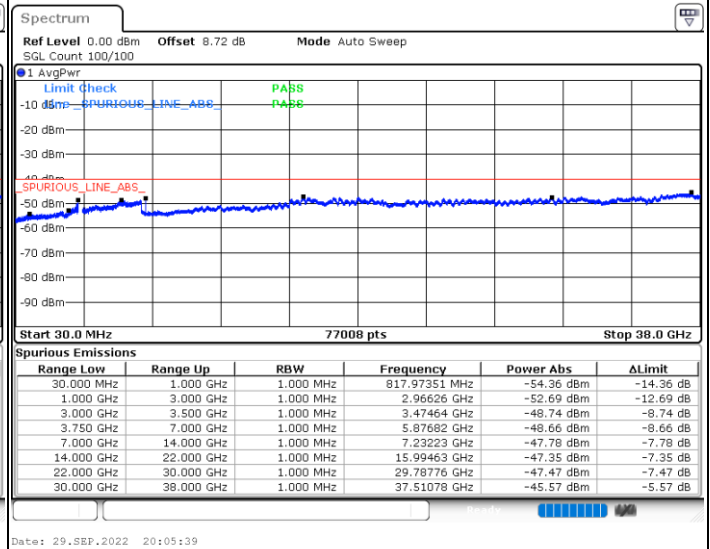


LTE Band 48 / 20MHz

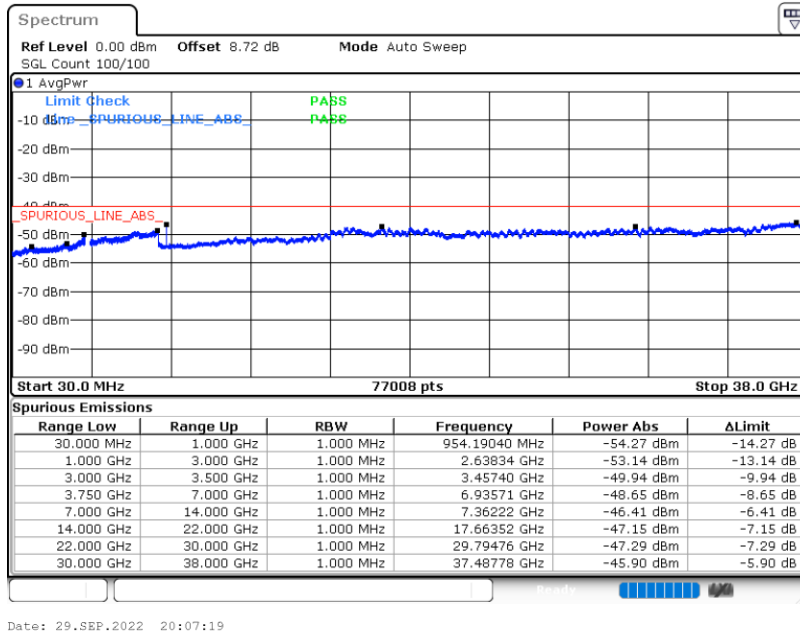
QPSK / 1RB0

Lowest Channel

Middle Channel



Highest Channel



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	0.0031	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0003	
20	Battery End Point	0.0012	

Note:

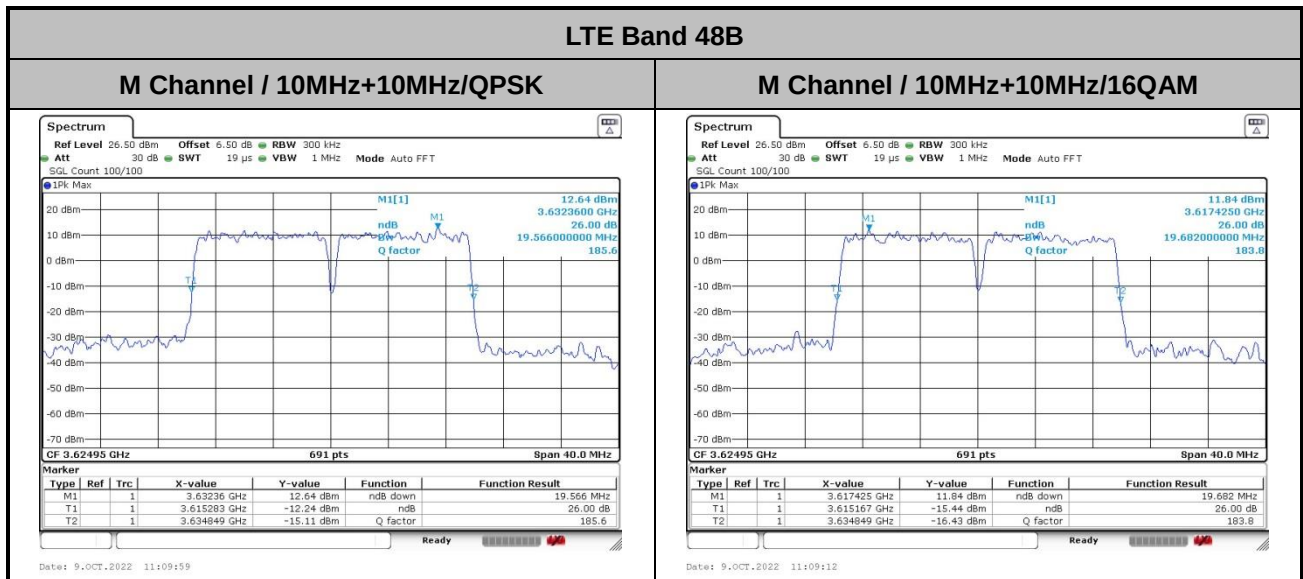
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 48B

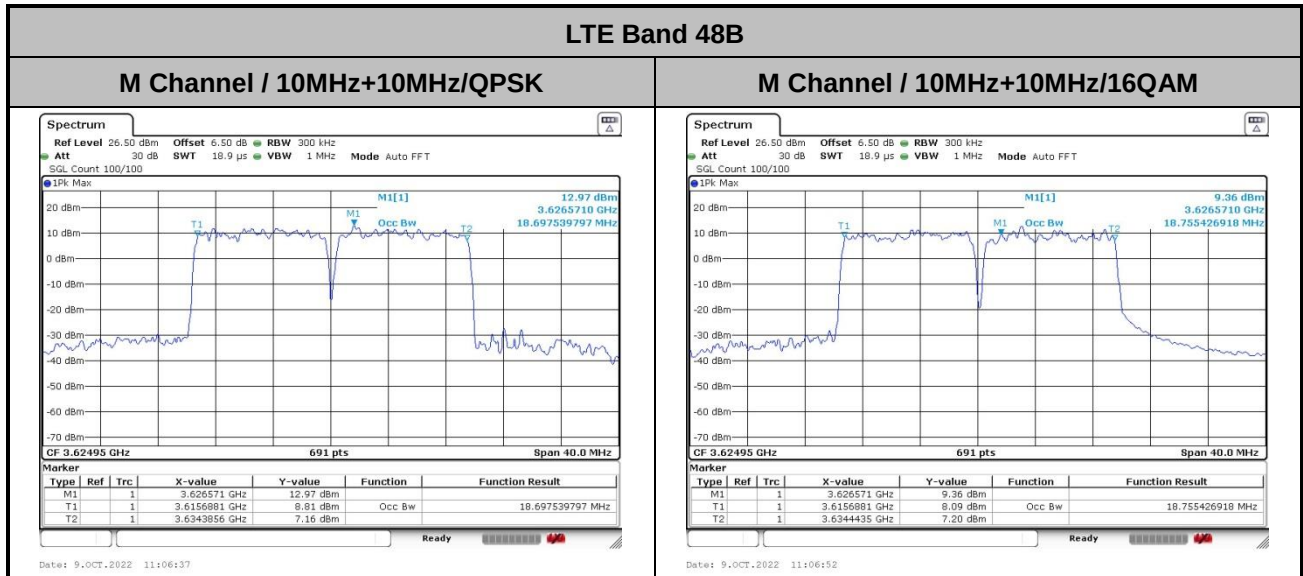
26dB Bandwidth

Mode	LTE Band 48B : 26dB BW(MHz)	
QPSK	QPSK	16QAM
BW	10MHz+10MHz	10MHz+10MHz
Middle CH	19.57	19.68



Occupied Bandwidth

Mode	LTE Band 48B : 99%OBW(MHz)	
QPSK	QPSK	16QAM
BW	10MHz+10MHz	10MHz+10MHz
Middle CH	18.70	18.76

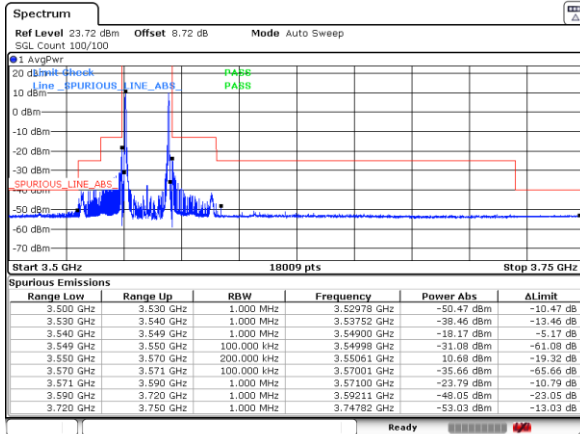




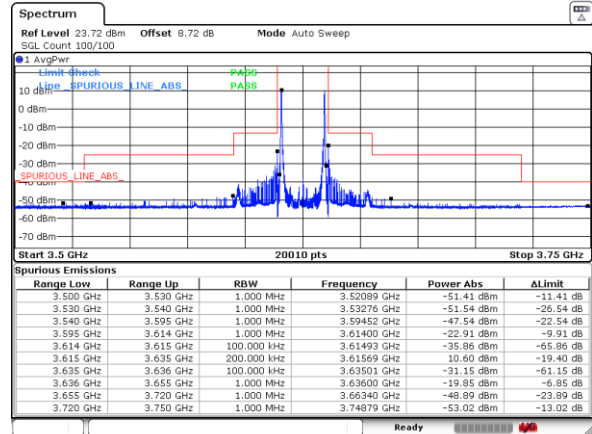
Conducted Band Edge

LTE Band 48B / 10MHz+10MHz / QPSK

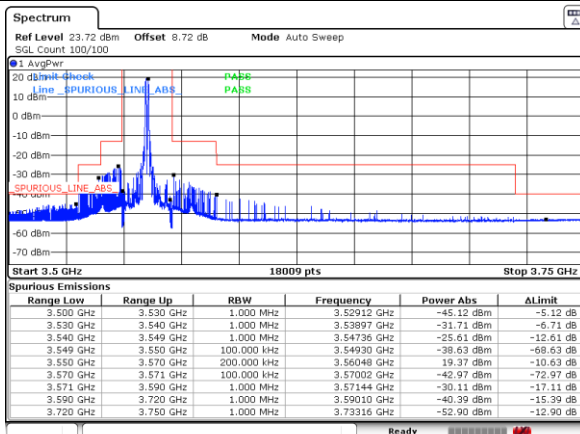
Lowest Band Edge / 1RB0 and 1RB49



Middle Band Edge / 1RB0 and 1RB49

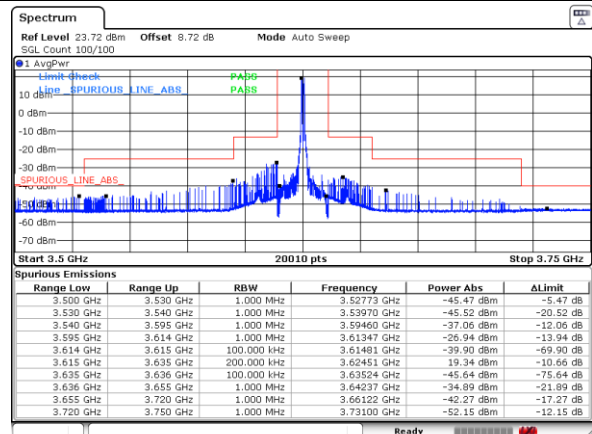


Lowest Band Edge / 1RB49 and 1RB0



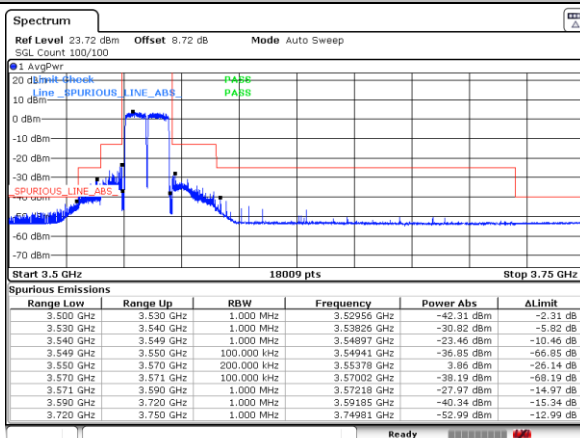
Date: 8 OCT.2022 09:22:43

Middle Band Edge / 1RB49 and 1RB0



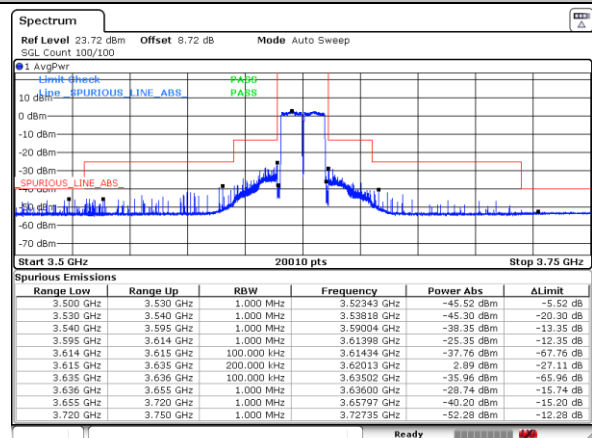
Date: 8 OCT.2022 08:46:48

Lowest Band Edge / Full RB



Date: 8 OCT.2022 09:29:29

Middle Band Edge / Full RB



Date: 8 OCT.2022 08:40:53