

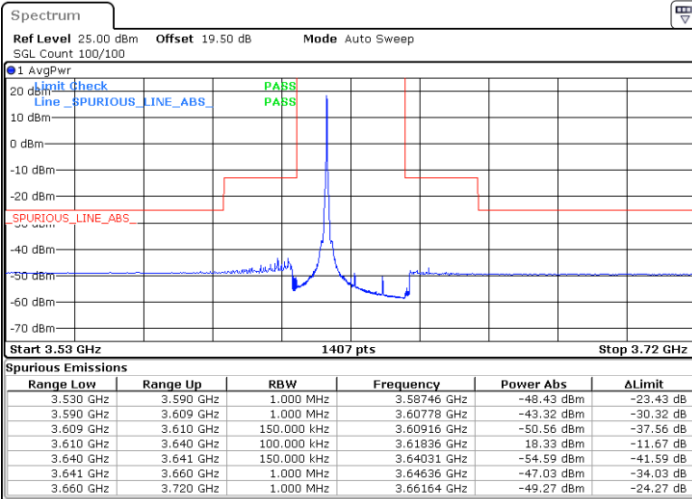


LTE Band 48 / 15MHz

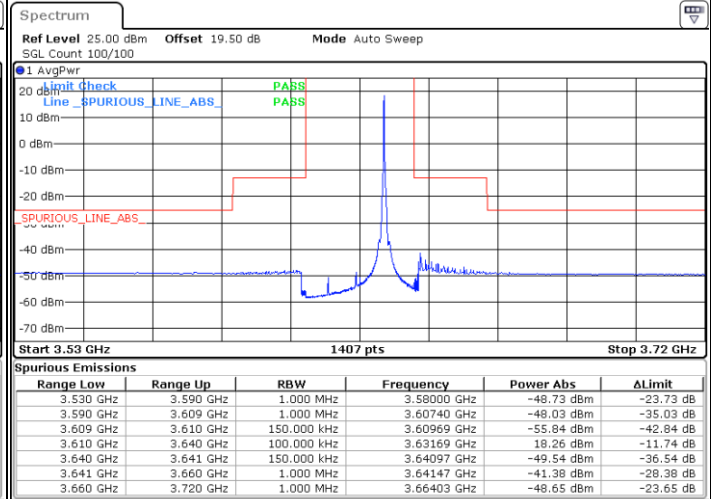
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



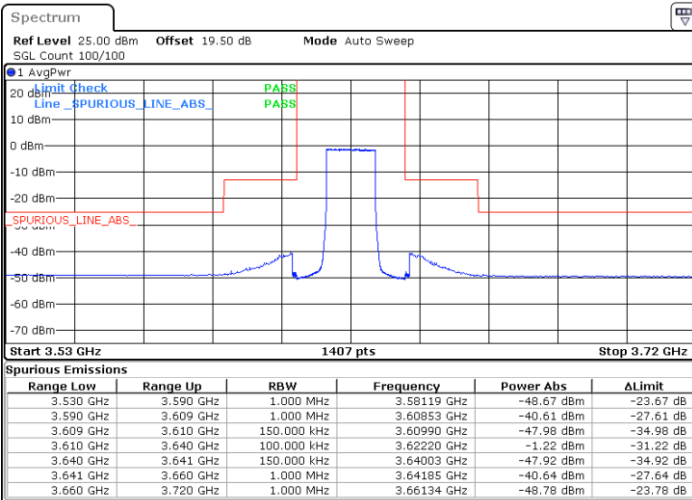
Date: 22.FEB.2024 00:41:05



Date: 22.FEB.2024 00:28:04

Middle Channel / FullIRB

N/A



Date: 22.FEB.2024 00:25:58

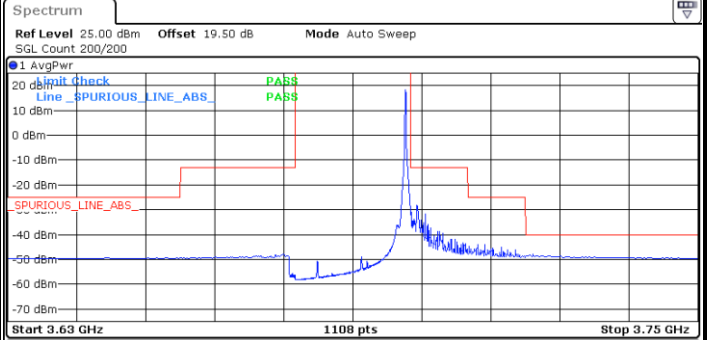
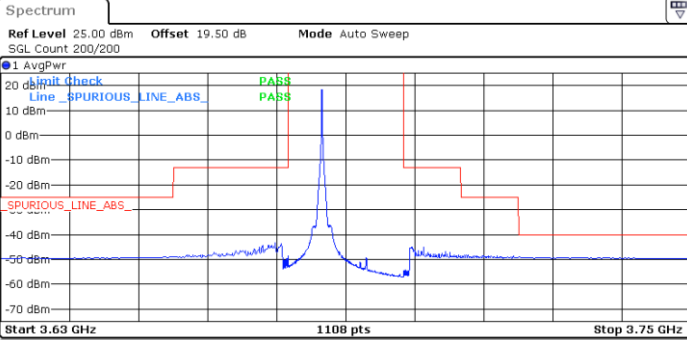


LTE Band 48 / 15MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65866 GHz	-48.81 dBm	-23.81 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67778 GHz	-43.32 dBm	-30.32 dB
3.679 GHz	3.680 GHz	150.000 kHz	3.67998 GHz	-48.61 dBm	-35.61 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.68586 GHz	18.42 dBm	-11.58 dB
3.700 GHz	3.701 GHz	150.000 kHz	3.70028 GHz	-54.35 dBm	-41.35 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70149 GHz	-44.99 dBm	-31.99 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71064 GHz	-48.26 dBm	-23.26 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72015 GHz	-49.10 dBm	-9.10 dB

Spurious Emissions

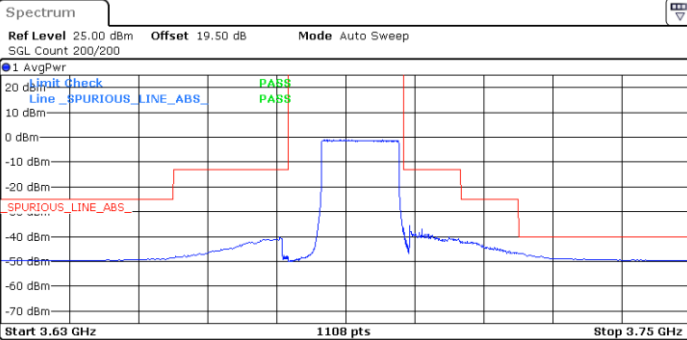
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.64708 GHz	-49.32 dBm	-24.32 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67797 GHz	-47.83 dBm	-34.83 dB
3.679 GHz	3.680 GHz	150.000 kHz	3.67957 GHz	-55.78 dBm	-42.78 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69918 GHz	18.42 dBm	-11.58 dB
3.700 GHz	3.701 GHz	150.000 kHz	3.70000 GHz	-28.57 dBm	-15.57 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70104 GHz	-28.16 dBm	-15.16 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71173 GHz	-44.09 dBm	-19.09 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72134 GHz	-48.05 dBm	-8.05 dB

Date: 22.FEB.2024 01:36:26

Date: 22.FEB.2024 01:52:04

Highest Channel / FullRB

N/A



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65955 GHz	-48.60 dBm	-23.60 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67853 GHz	-40.16 dBm	-27.16 dB
3.679 GHz	3.680 GHz	150.000 kHz	3.67928 GHz	-47.58 dBm	-34.58 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69633 GHz	-1.14 dBm	-31.14 dB
3.700 GHz	3.701 GHz	150.000 kHz	3.70000 GHz	-36.77 dBm	-23.77 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70104 GHz	-35.43 dBm	-22.43 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71025 GHz	-42.03 dBm	-17.03 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72074 GHz	-46.74 dBm	-6.74 dB

Date: 22.FEB.2024 01:57:24

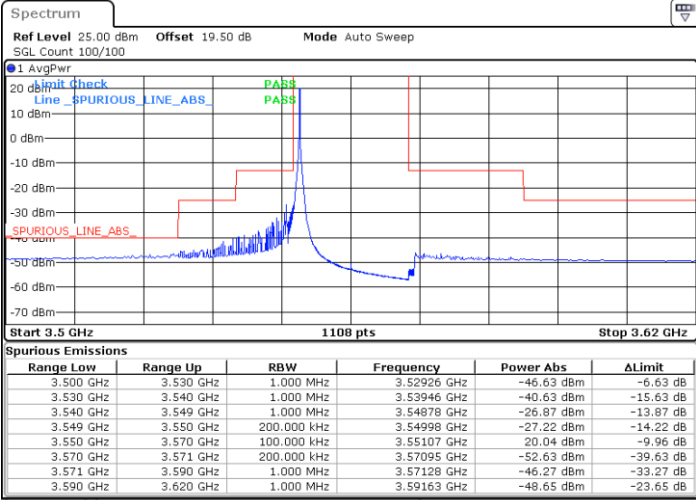


LTE Band 48 / 20MHz

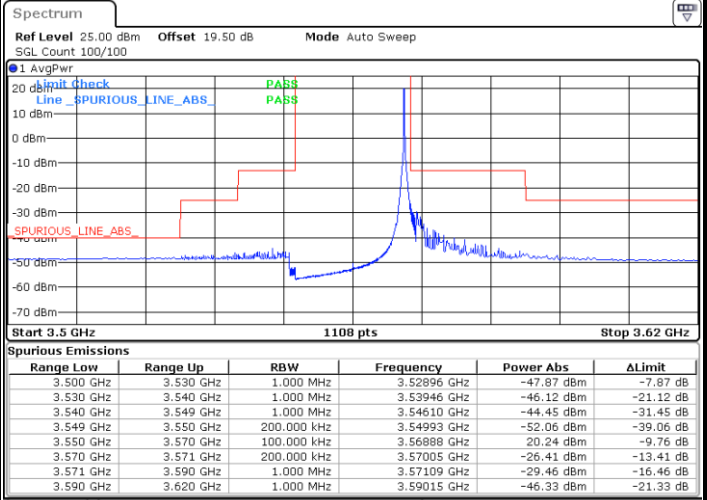
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



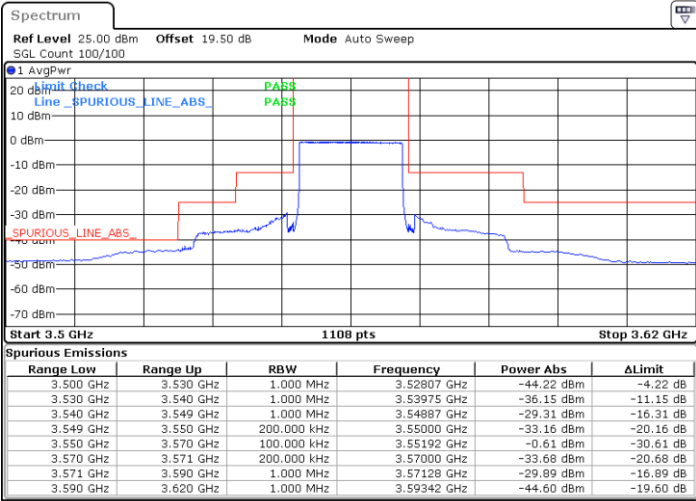
Date: 20.FEB.2024 04:05:00



Date: 20.FEB.2024 04:11:49

Lowest Channel / FullIRB

N/A



Date: 20.FEB.2024 04:13:12

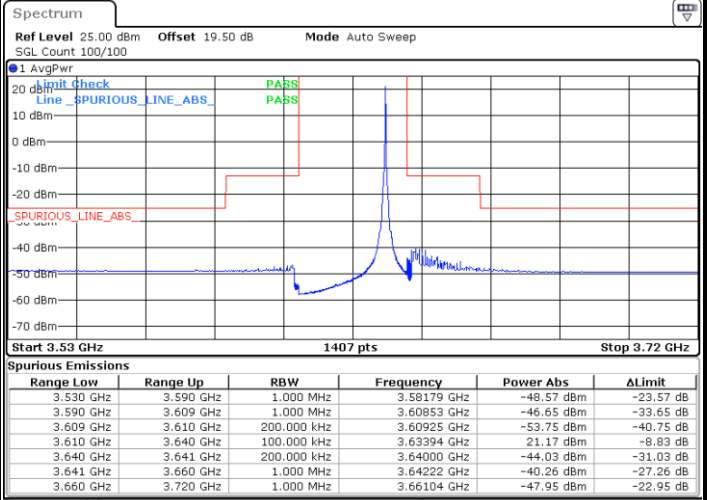
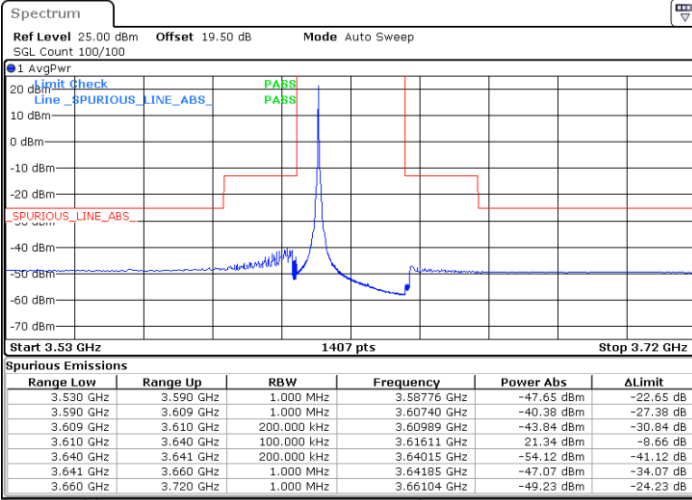


LTE Band 48 / 20MHz

QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax

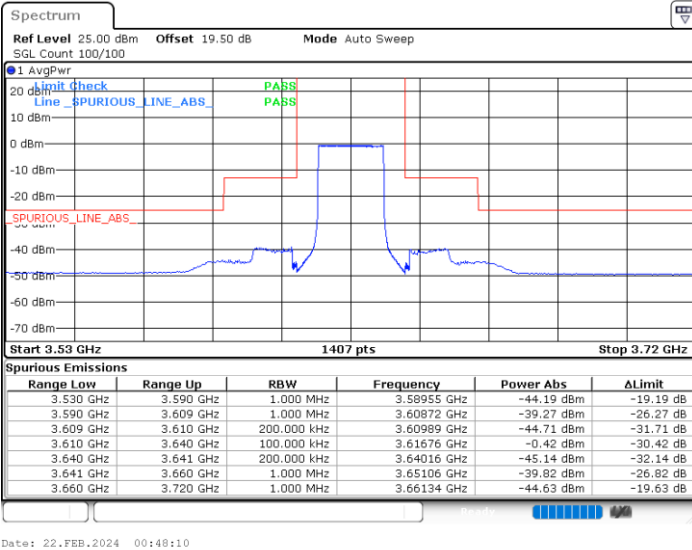


Date: 22.FEB.2024 01:03:17

Date: 22.FEB.2024 00:50:16

Middle Channel / FullIRB

N/A



Date: 22.FEB.2024 00:48:10

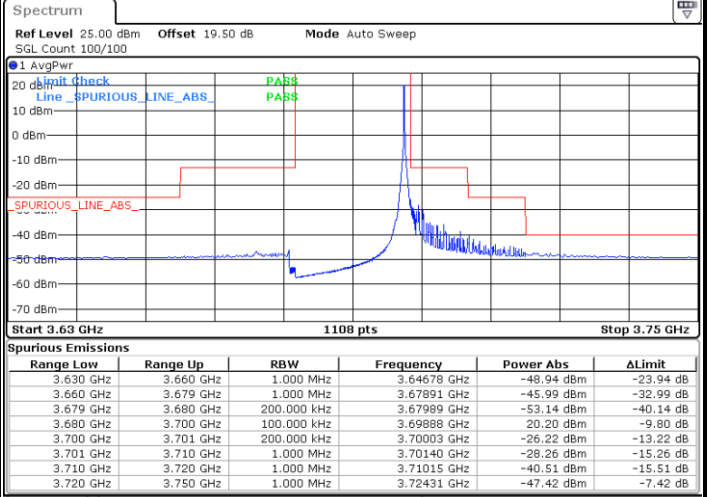
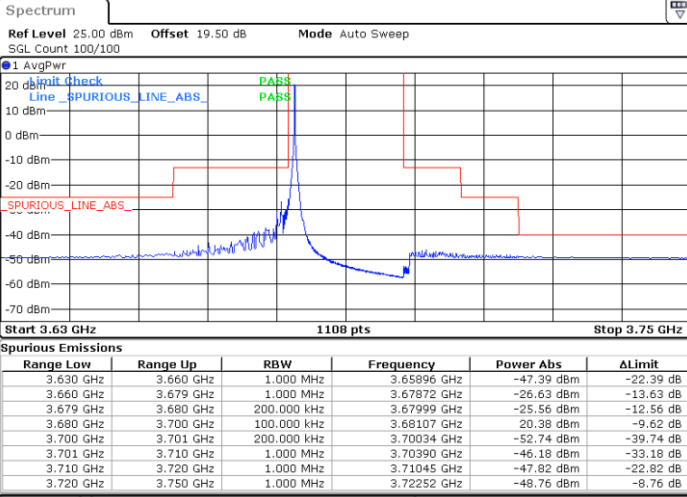


LTE Band 48 / 20MHz

QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

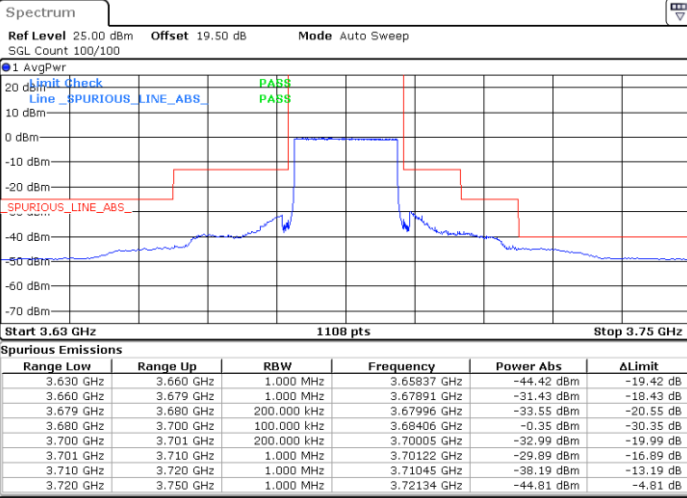


Date: 20.FEB.2024 09:22:29

Date: 20.FEB.2024 09:31:40

Highest Channel / FullRB

N/A



Date: 20.FEB.2024 09:33:02

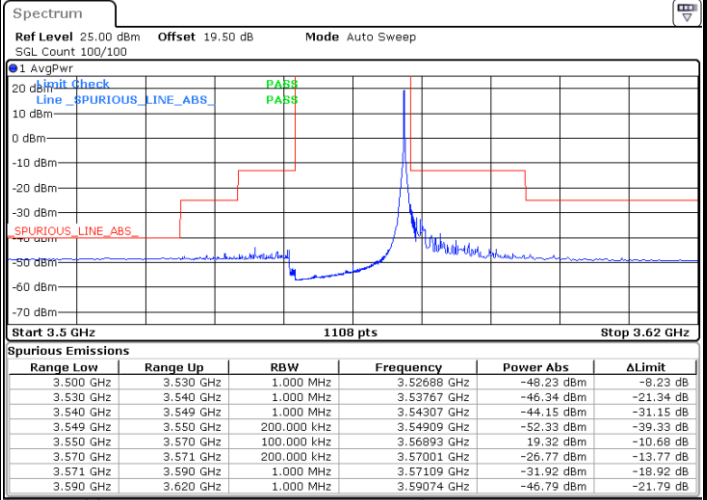
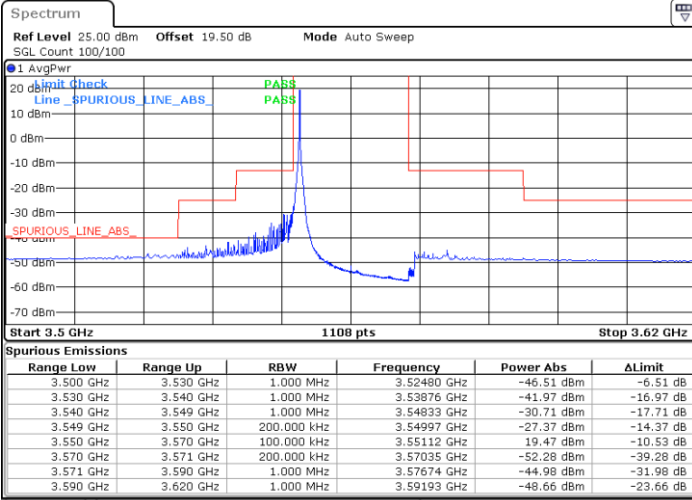


LTE Band 48 / 20MHz

16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

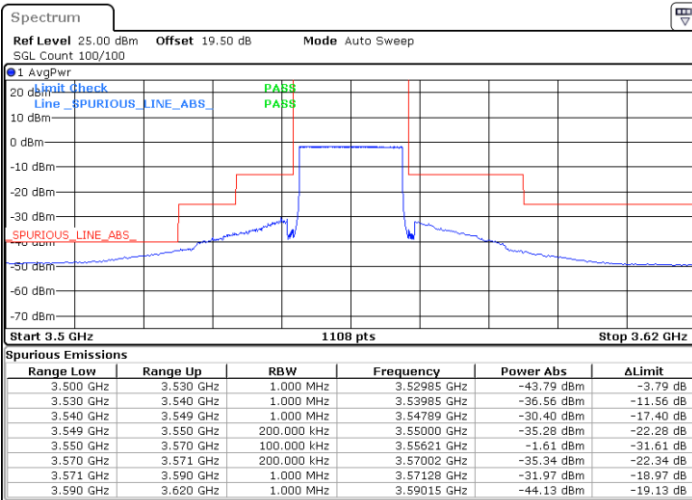


Date: 20.FEB.2024 04:06:22

Date: 20.FEB.2024 04:10:28

Lowest Channel / FullIRB

N/A



Date: 20.FEB.2024 04:16:23

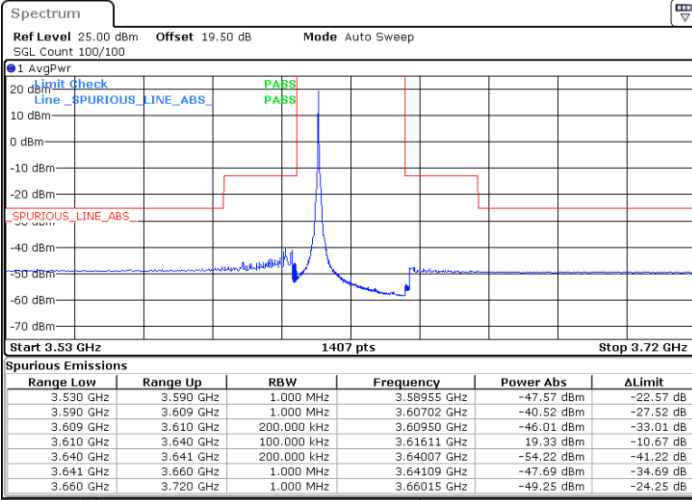


LTE Band 48 / 20MHz

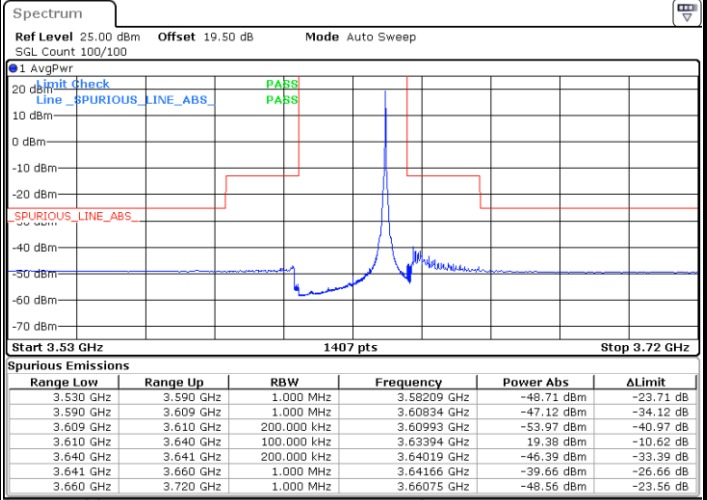
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



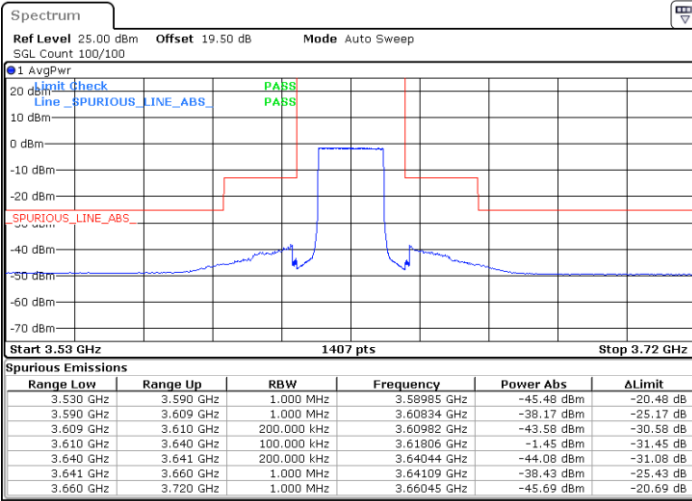
Date: 22.FEB.2024 01:01:12



Date: 22.FEB.2024 00:52:22

Middle Channel / FullRB

N/A



Date: 22.FEB.2024 00:46:05

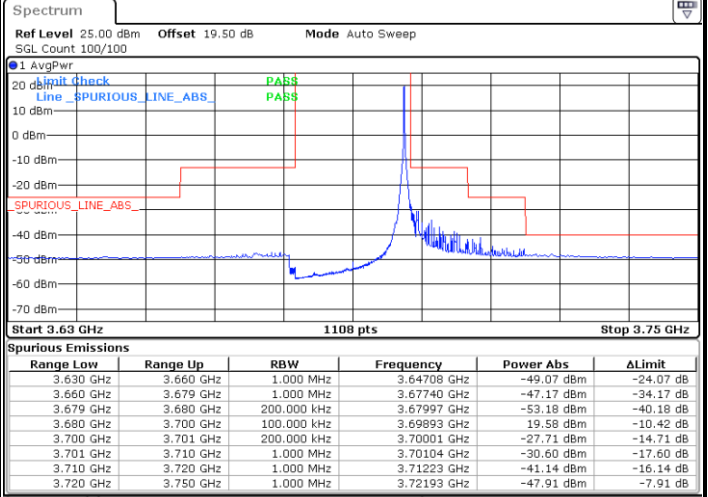
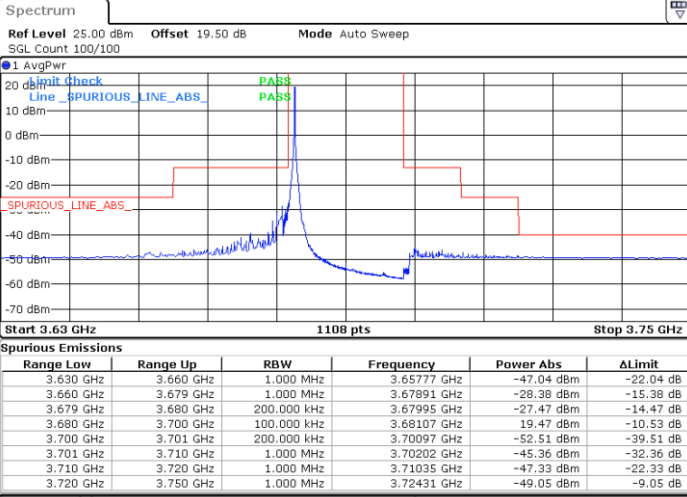


LTE Band 48 / 20MHz

16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

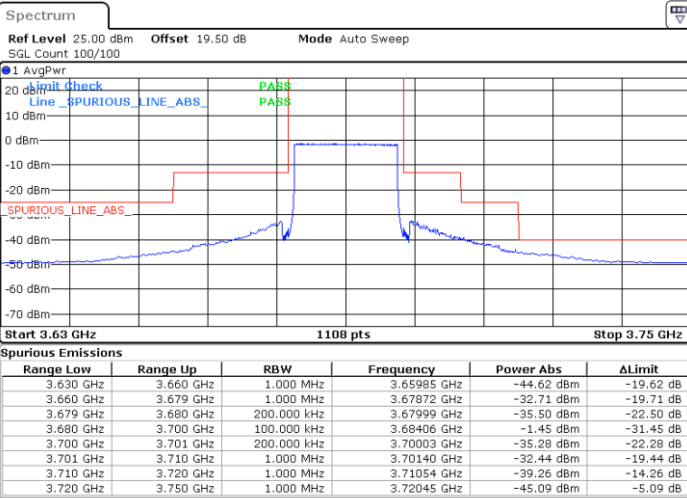


Date: 20.FEB.2024 09:23:51

Date: 20.FEB.2024 09:30:19

Highest Channel / FullRB

N/A



Date: 20.FEB.2024 09:34:23

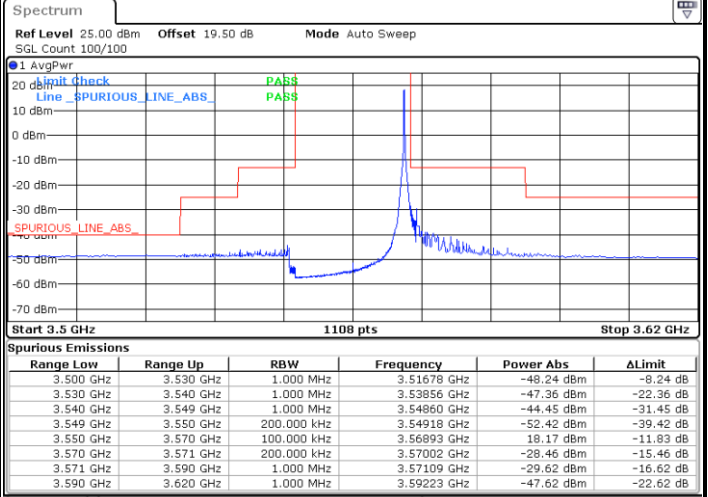
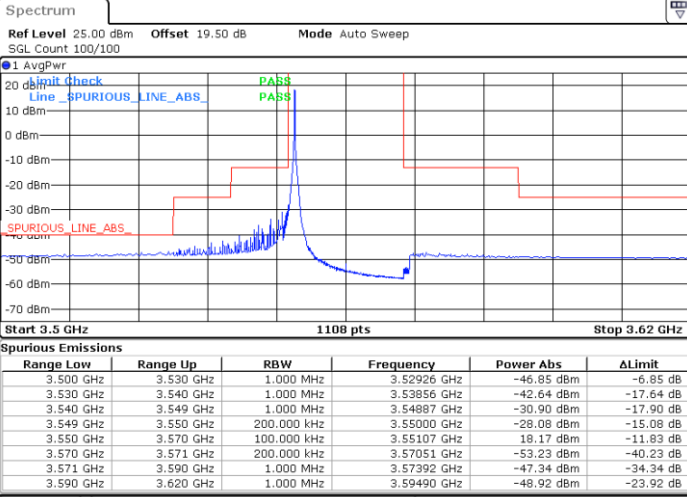


LTE Band 48 / 20MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

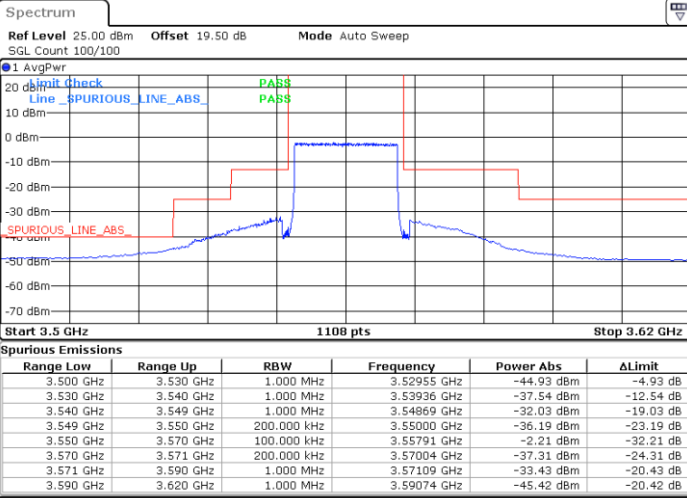


Date: 20.FEB.2024 04:07:44

Date: 20.FEB.2024 04:09:06

Lowest Channel / FullIRB

N/A



Date: 20.FEB.2024 04:17:45

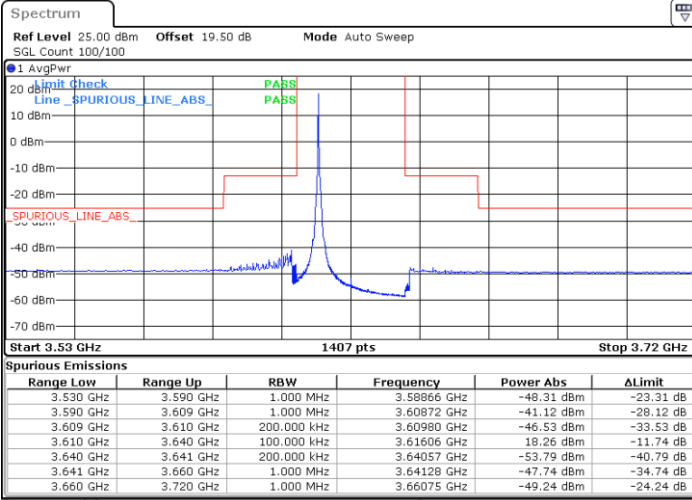


LTE Band 48 / 20MHz

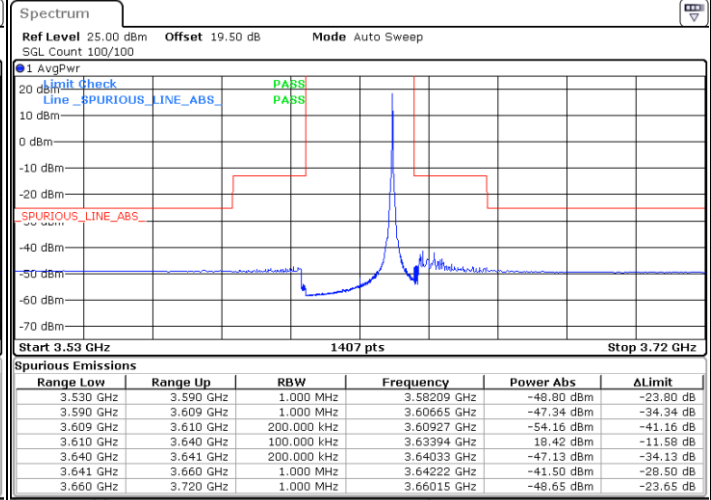
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



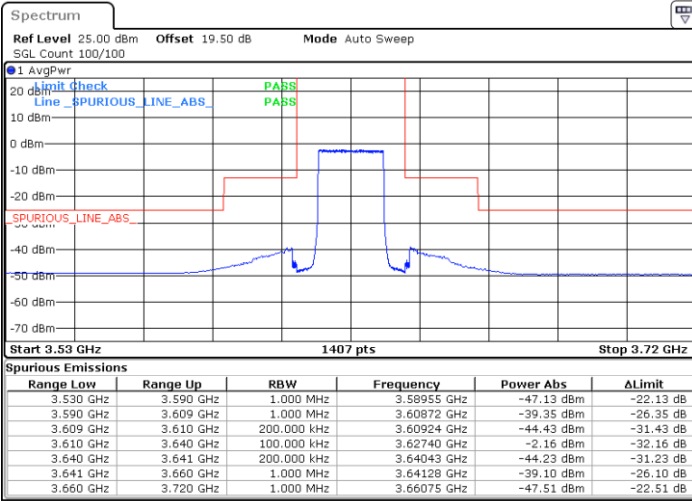
Date: 22.FEB.2024 00:59:06



Date: 22.FEB.2024 00:57:01

Middle Channel / FullIRB

N/A



Date: 22.FEB.2024 00:44:00

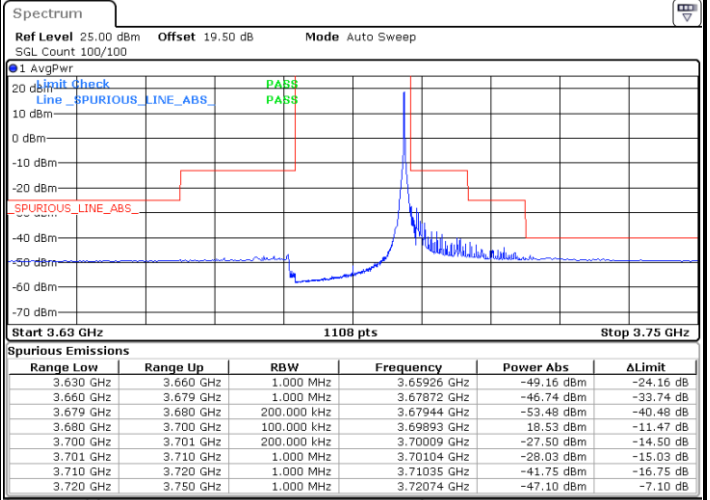
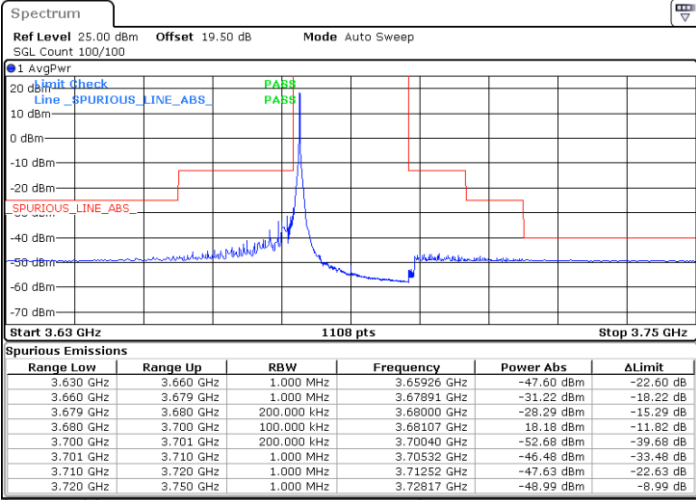


LTE Band 48 / 20MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

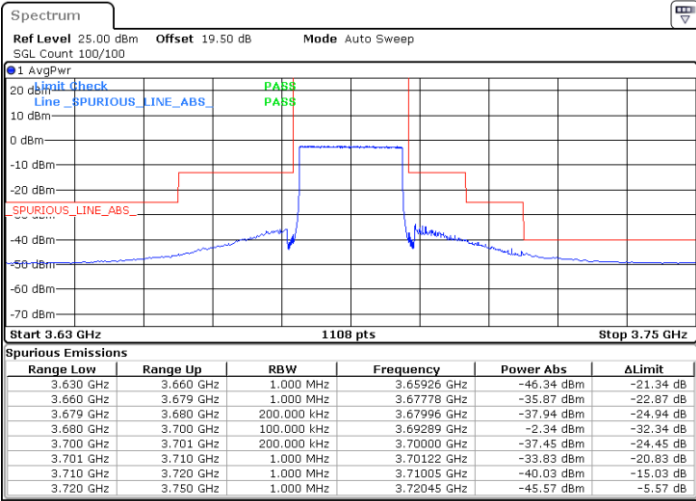


Date: 20.FEB.2024 09:25:12

Date: 20.FEB.2024 09:28:57

Highest Channel / FullRB

N/A



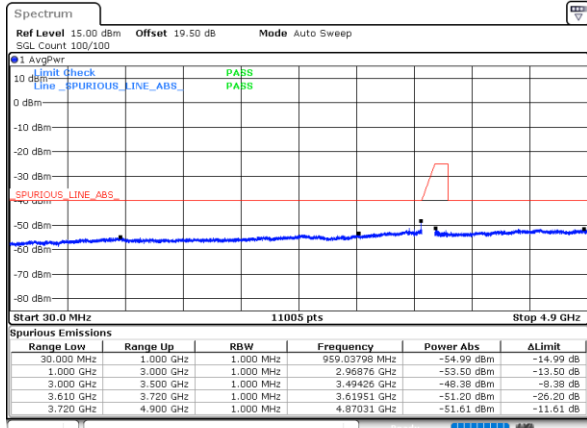
Date: 20.FEB.2024 09:35:45



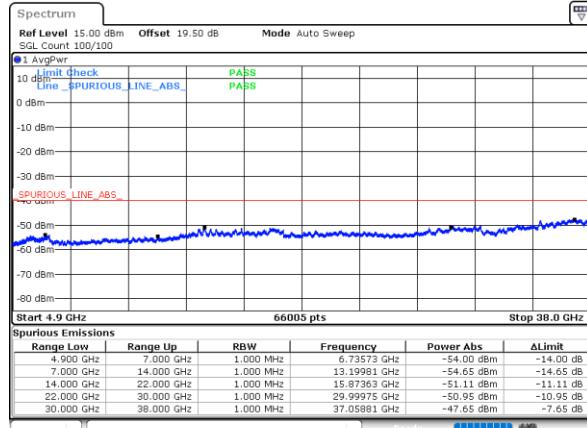
Conducted Spurious Emission

LTE Band 48 / 5MHz

Lowest Channel / QPSK

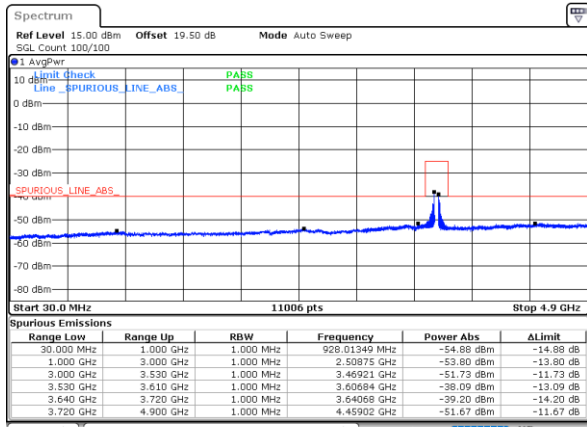


Date: 22.FEB.2024 17:30:09

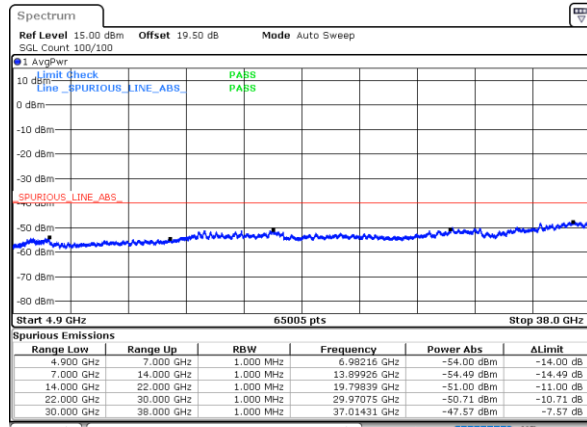


Date: 22.FEB.2024 18:32:01

Middle Channel / QPSK

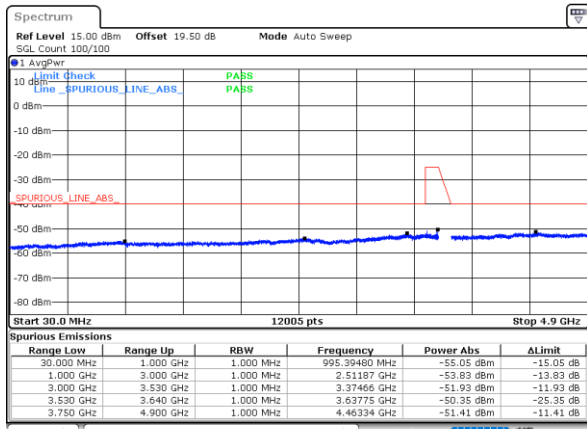


Date: 22.FEB.2024 17:35:06

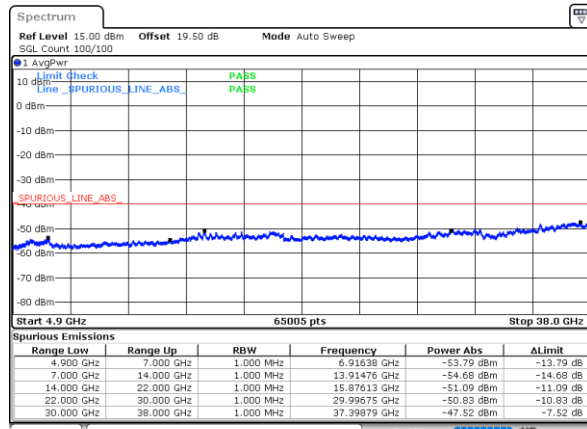


Date: 22.FEB.2024 18:33:32

Highest Channel / QPSK



Date: 22.FEB.2024 17:39:02

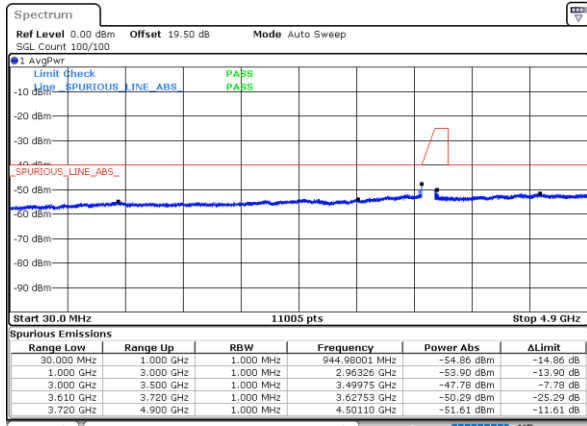


Date: 22.FEB.2024 18:35:03

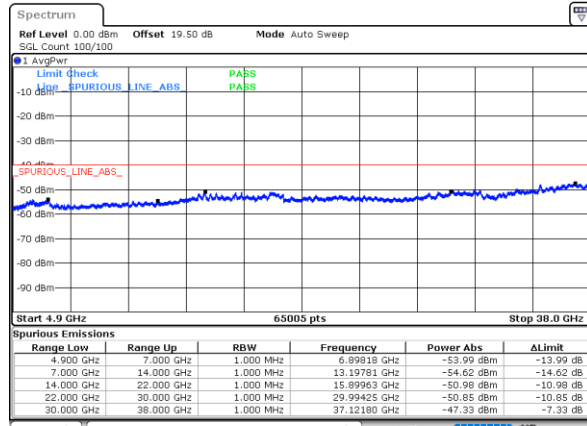


LTE Band 48 / 10MHz

Lowest Channel / QPSK

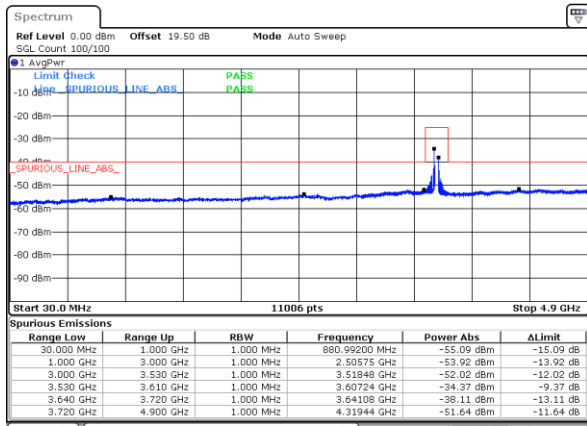


Date: 22.FEB.2024 17:41:12

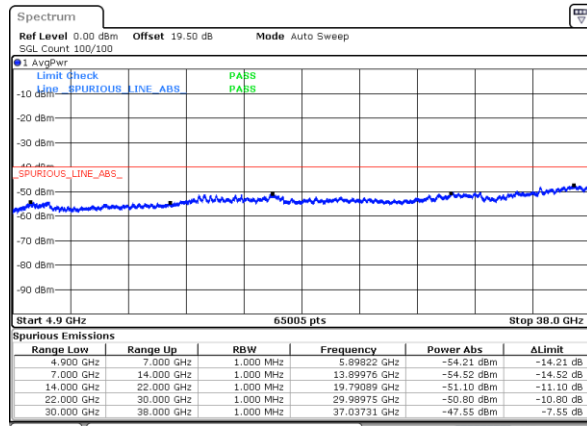


Date: 22.FEB.2024 18:37:23

Middle Channel / QPSK

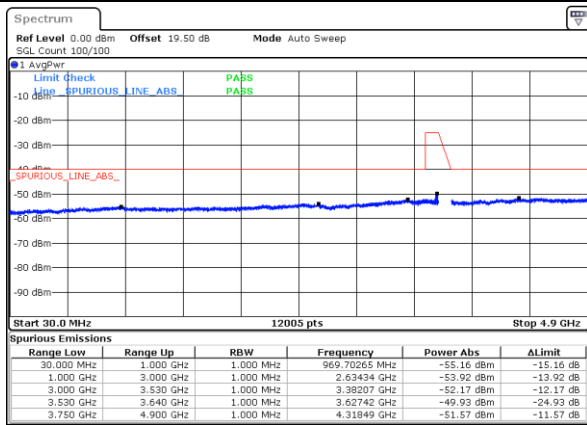


Date: 22.FEB.2024 17:42:35

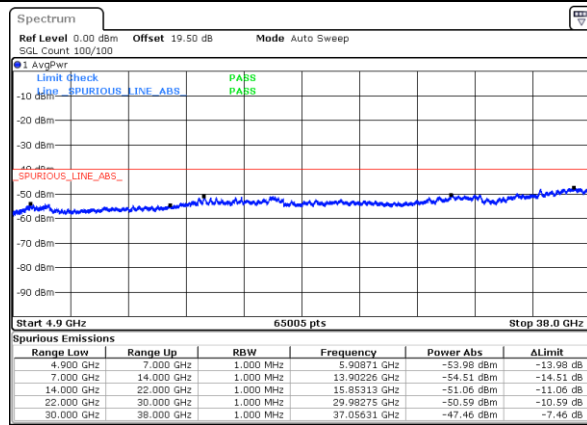


Date: 22.FEB.2024 18:38:54

Highest Channel / QPSK



Date: 22.FEB.2024 17:45:43

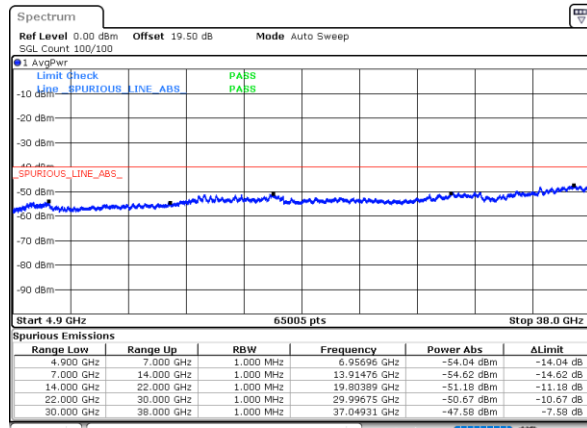
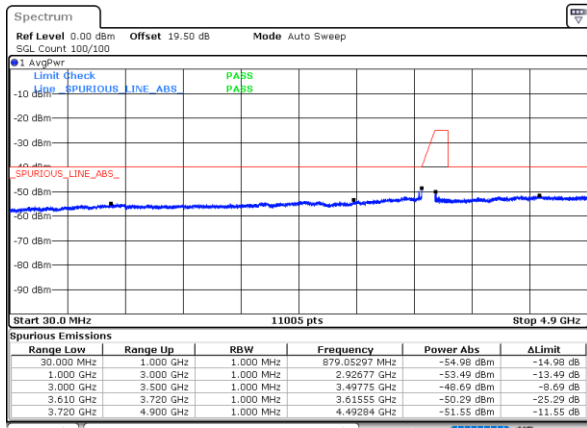


Date: 22.FEB.2024 18:40:25



LTE Band 48 / 15MHz

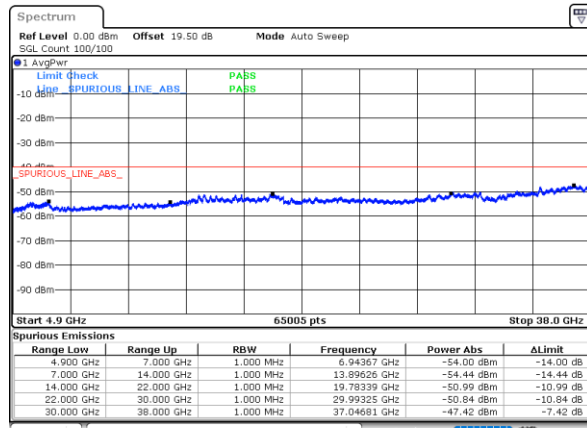
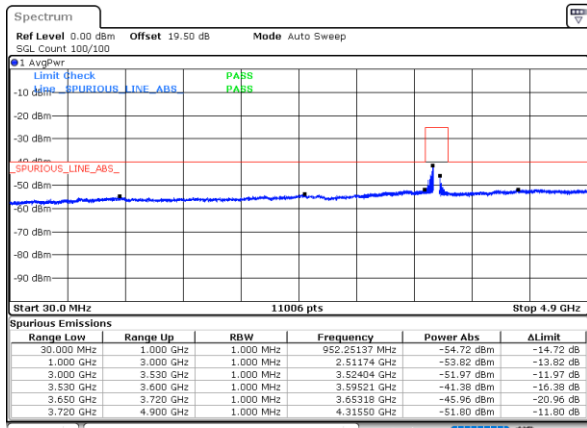
Lowest Channel / QPSK



Date: 22.FEB.2024 18:16:29

Date: 22.FEB.2024 18:42:45

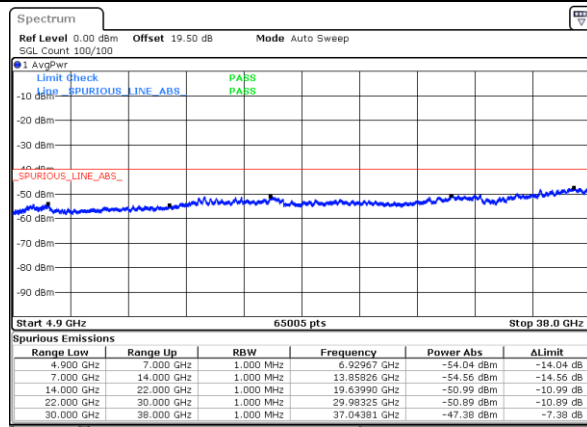
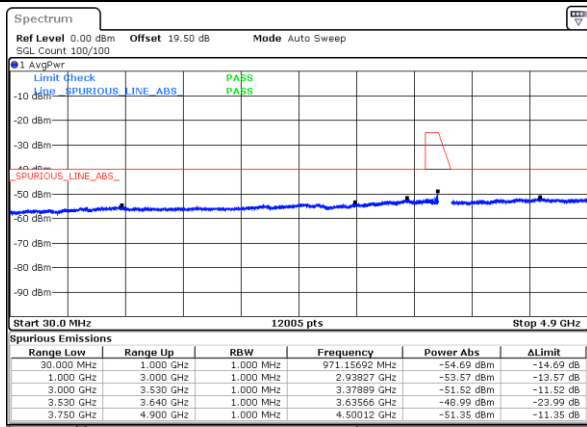
Middle Channel / QPSK



Date: 22.FEB.2024 18:17:19

Date: 22.FEB.2024 18:44:16

Highest Channel / QPSK



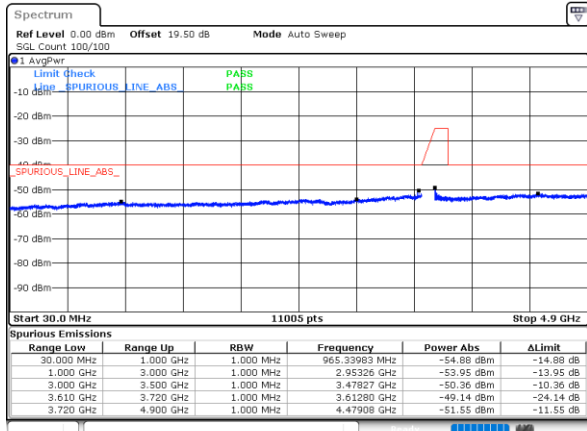
Date: 22.FEB.2024 18:19:27

Date: 22.FEB.2024 18:45:47

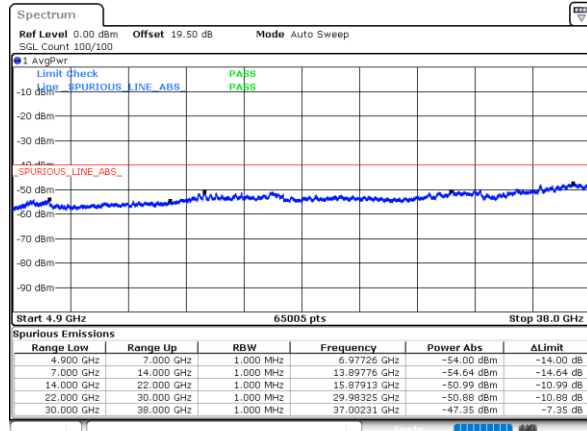


LTE Band 48 / 20MHz

Lowest Channel / QPSK

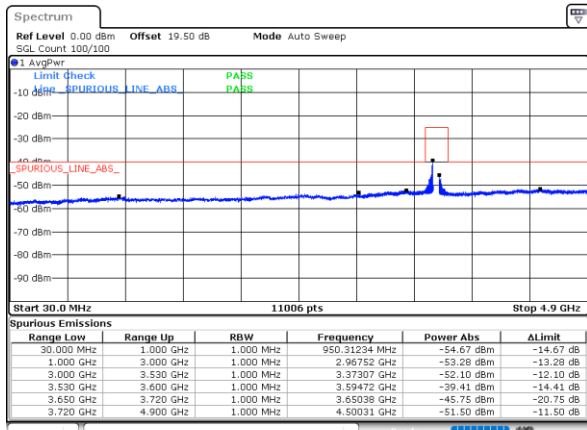


Date: 22.FEB.2024 18:21:06

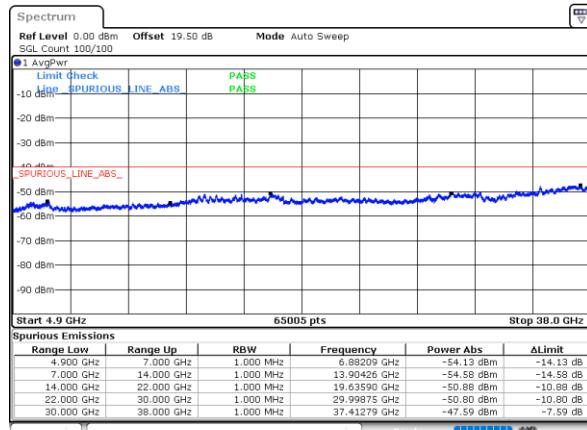


Date: 22.FEB.2024 18:48:07

Middle Channel / QPSK

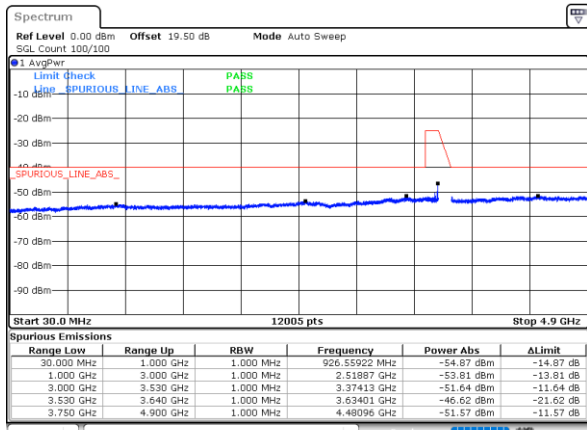


Date: 22.FEB.2024 18:21:56

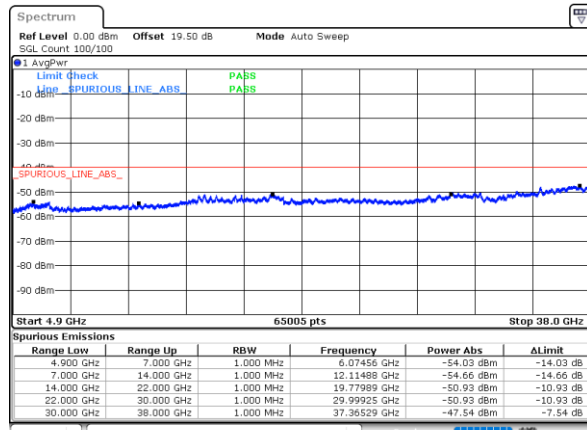


Date: 22.FEB.2024 18:49:38

Highest Channel / QPSK



Date: 22.FEB.2024 18:24:07



Date: 22.FEB.2024 18:51:09



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	0.0032	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

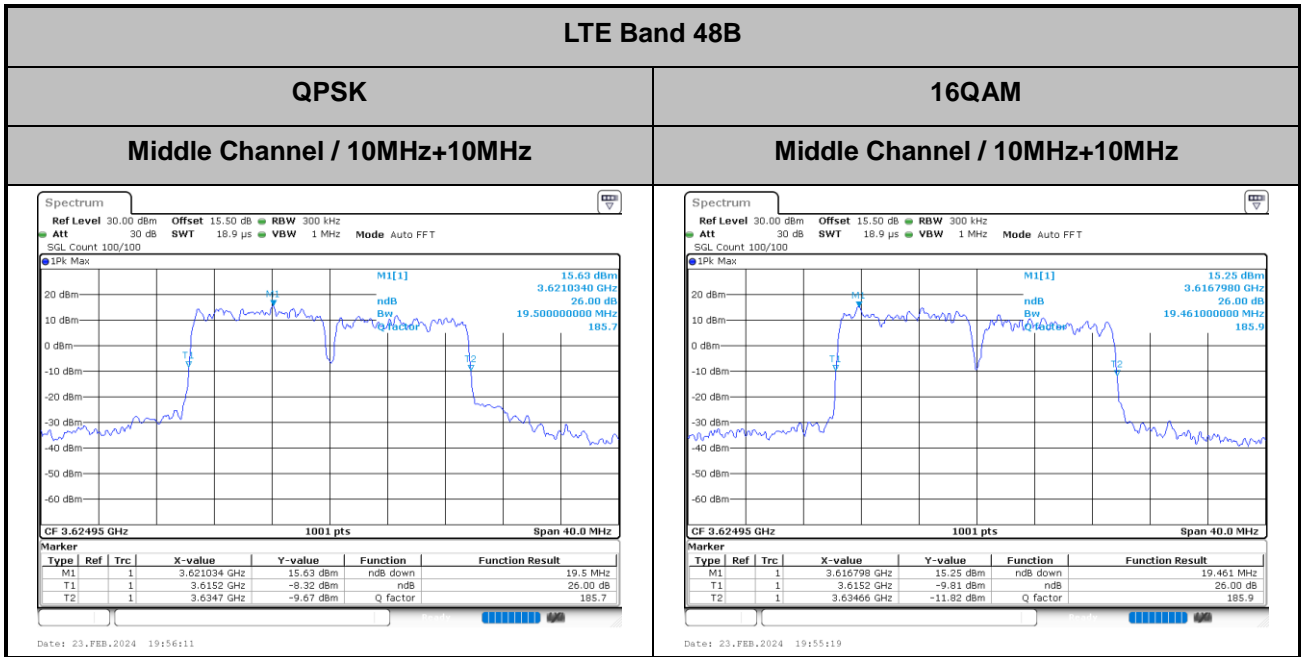
1. Normal Voltage = 3.88 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.53 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 48B

26dB Bandwidth

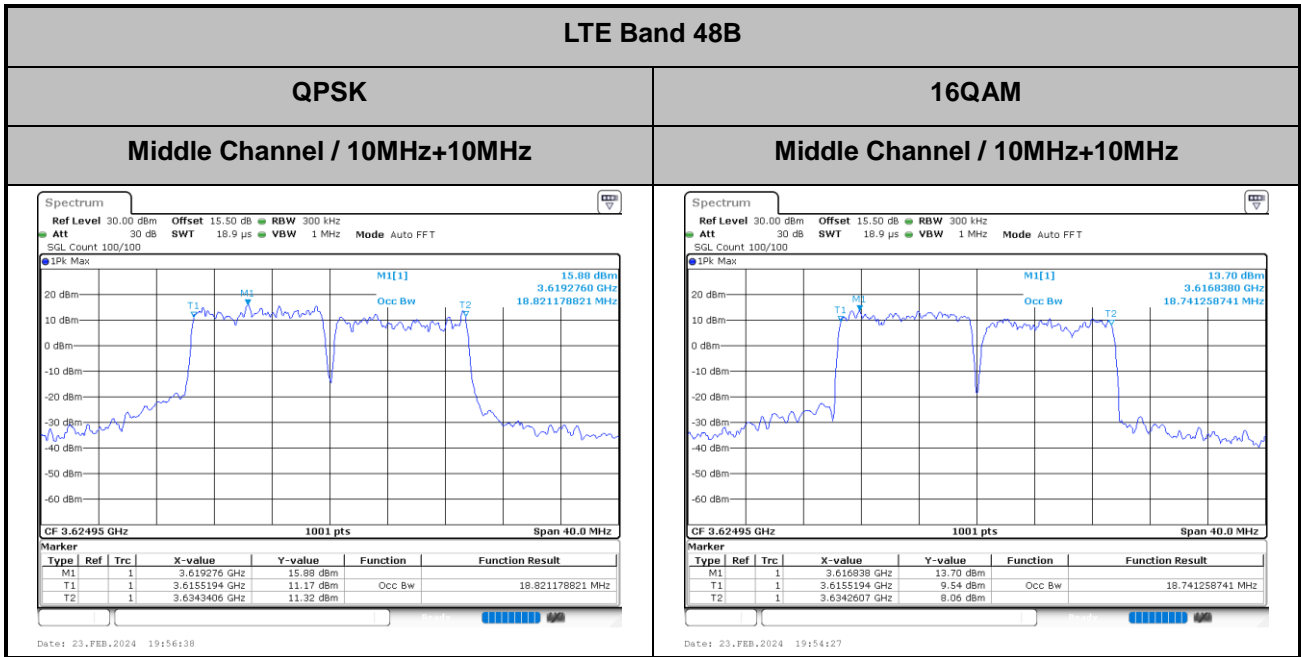
Mode	LTE Band 48B : 26dB BW(MHz)	
	10MHz+10MHz	
BW	QPSK	16QAM
Middle CH	19.50	19.46





Occupied Bandwidth

Mode	LTE Band 48B : 99%OBW(MHz)	
	10MHz+10MHz	
BW	QPSK	16QAM
Middle CH	18.82	18.74





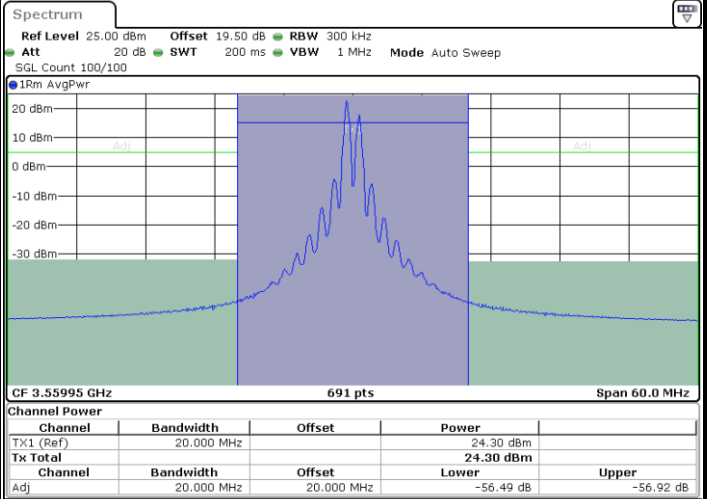
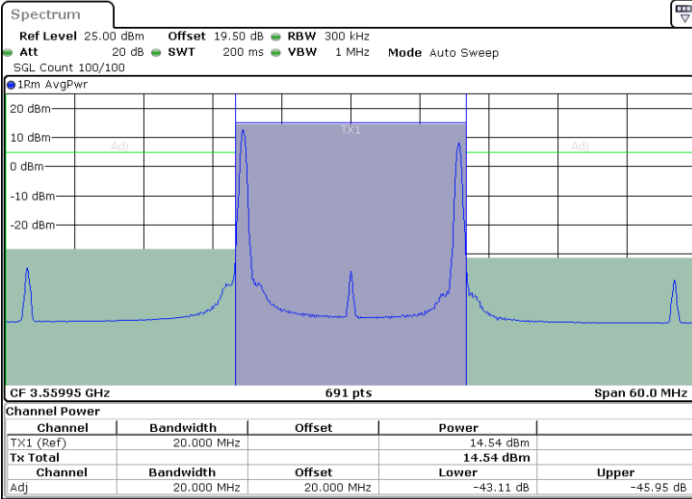
ACLR

LTE Band 48B / 10MHz+10MHz

QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0

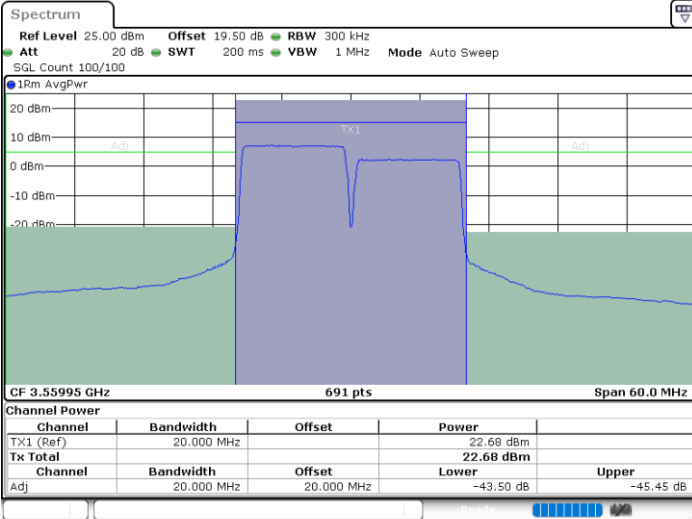


Date: 23.FEB.2024 01:56:47

Date: 23.FEB.2024 01:58:17

Lowest Channel / FullRB

N/A



Date: 23.FEB.2024 01:50:47

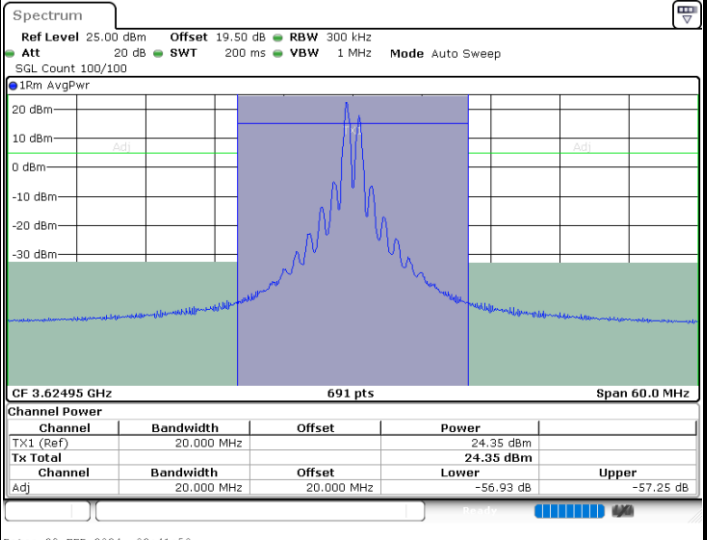
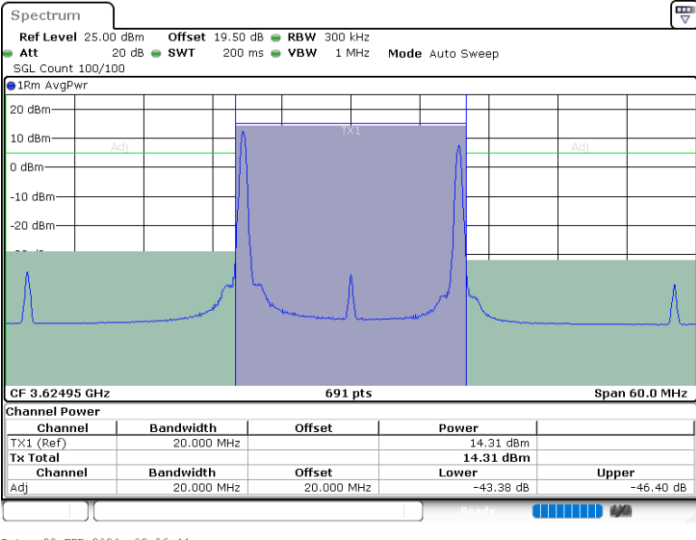


LTE Band 48B / 10MHz+10MHz

QPSK

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0

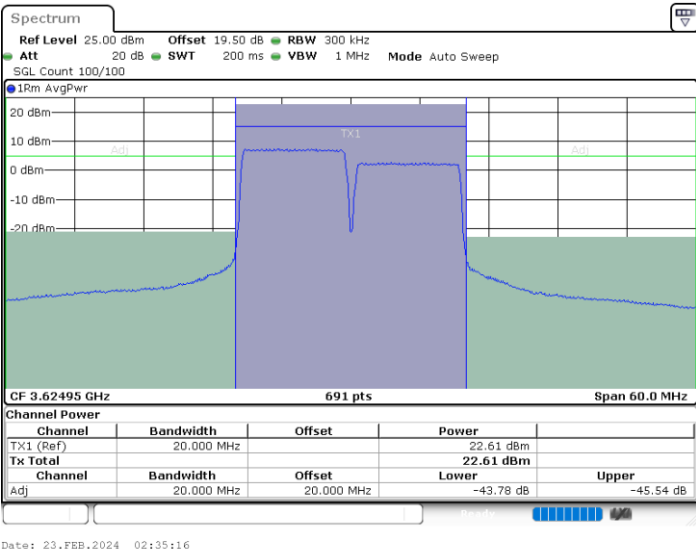


Date: 23.FEB.2024 02:36:44

Date: 23.FEB.2024 02:41:50

Middle Channel / FullIRB

N/A



Date: 23.FEB.2024 02:35:16

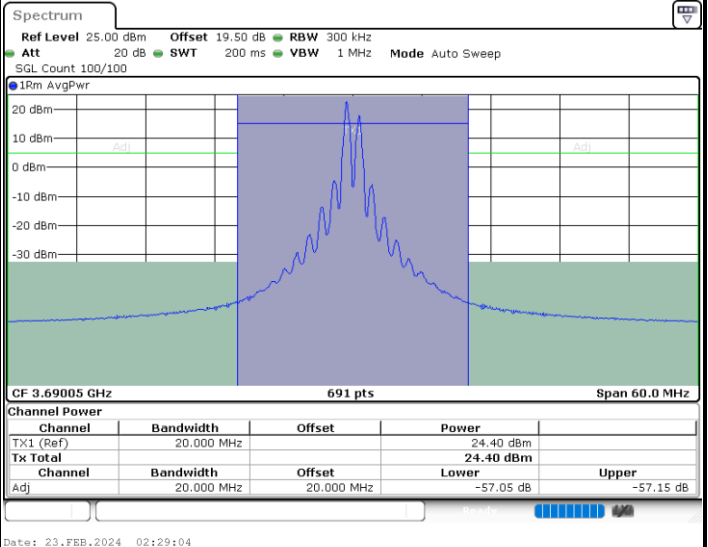
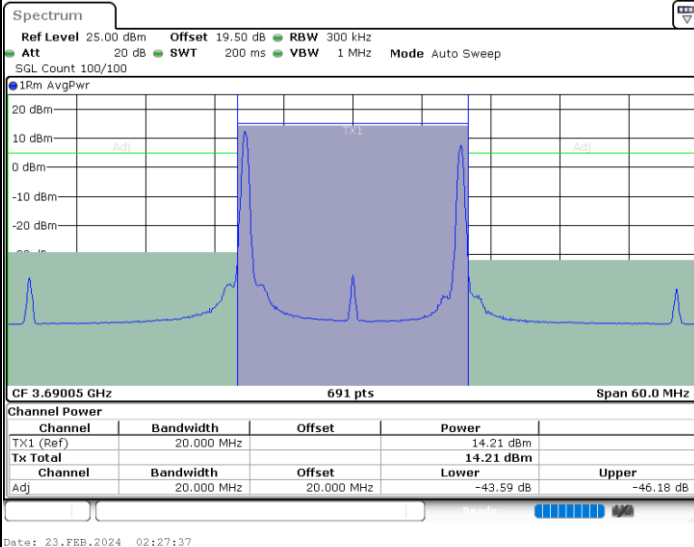


LTE Band 48B / 10MHz+10MHz

QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0

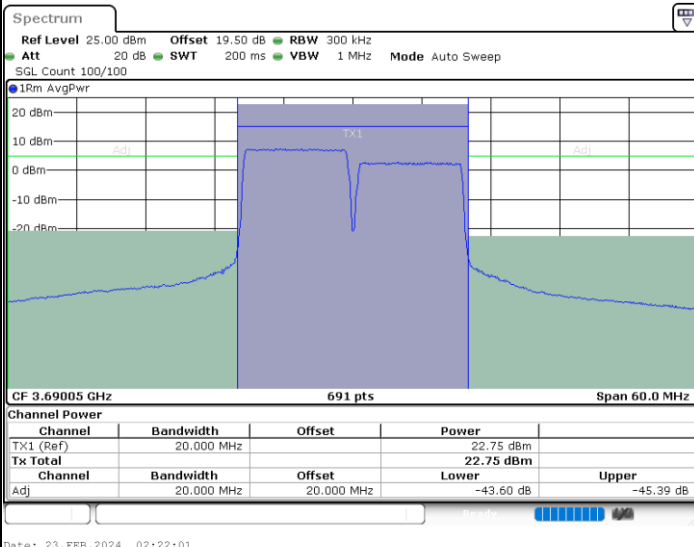


Date: 23.FEB.2024 02:27:37

Date: 23.FEB.2024 02:29:04

Highest Channel / FullRB

N/A



Date: 23.FEB.2024 02:22:01

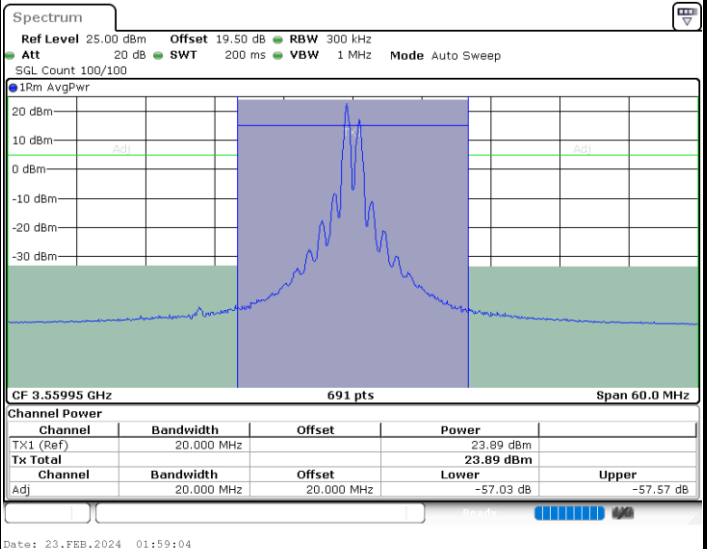
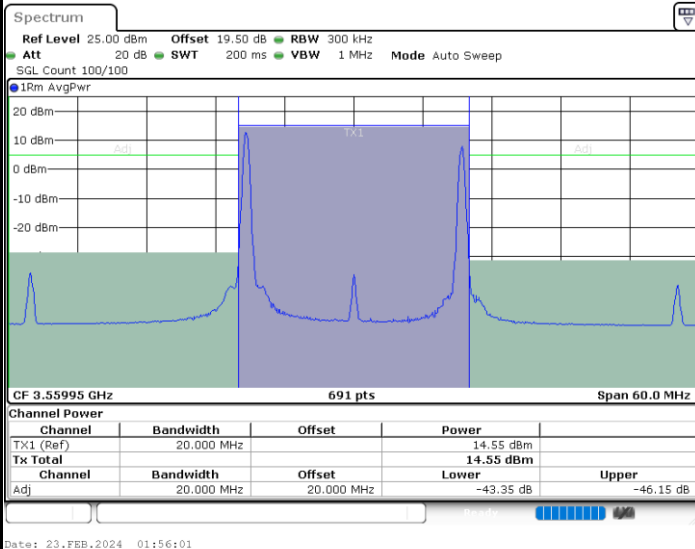


LTE Band 48B / 10MHz+10MHz

16QAM

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0

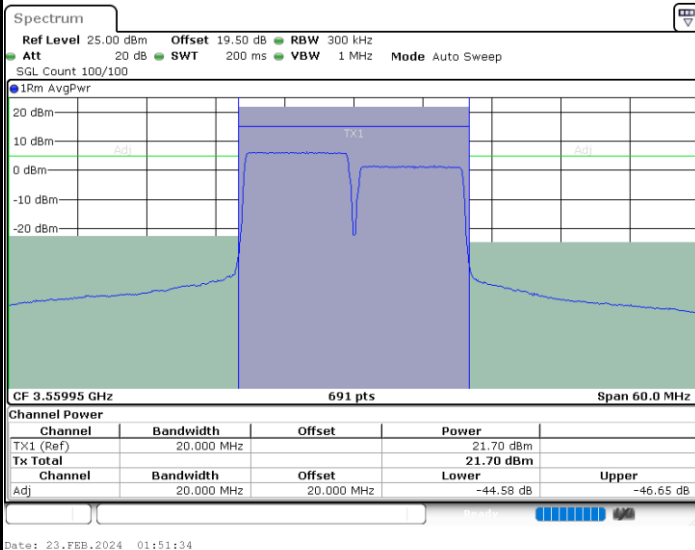


Date: 23.FEB.2024 01:56:01

Date: 23.FEB.2024 01:59:04

Lowest Channel / FullIRB

N/A



Date: 23.FEB.2024 01:51:34

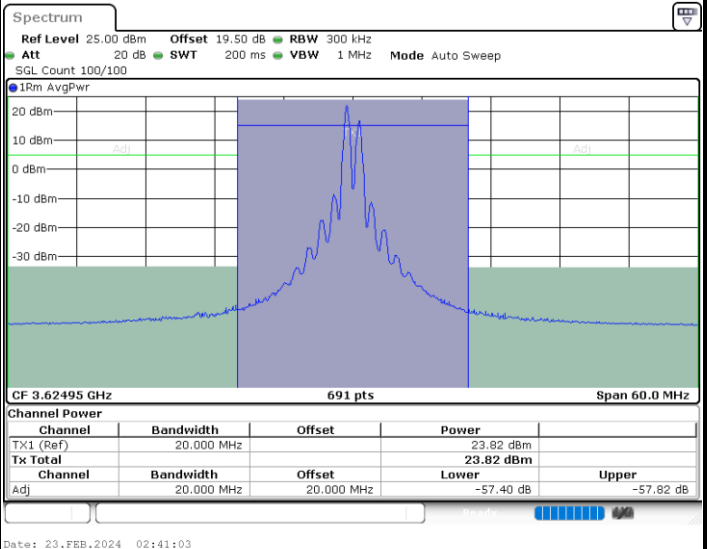
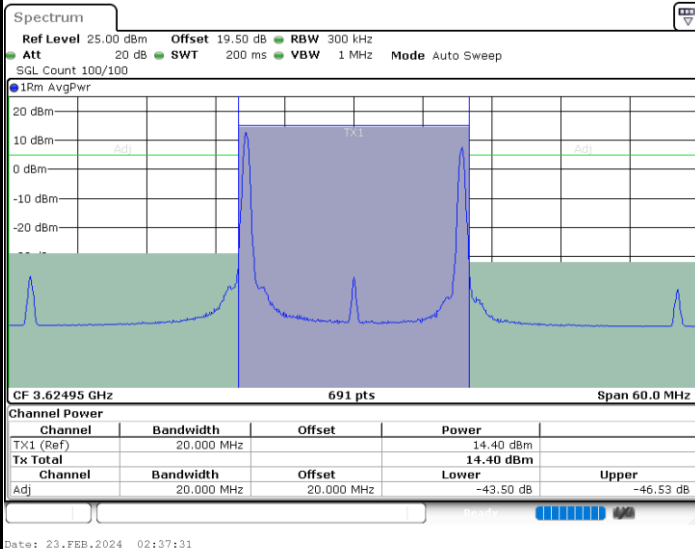


LTE Band 48B / 10MHz+10MHz

16QAM

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0

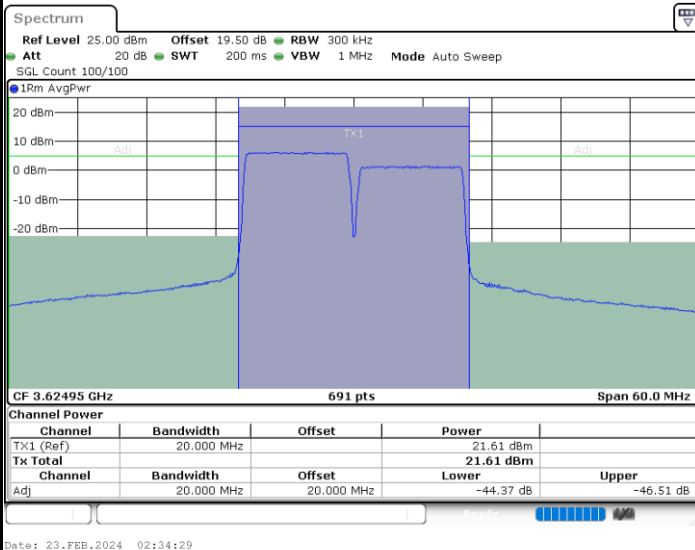


Date: 23.FEB.2024 02:37:31

Date: 23.FEB.2024 02:41:03

Middle Channel / FullIRB

N/A



Date: 23.FEB.2024 02:34:29

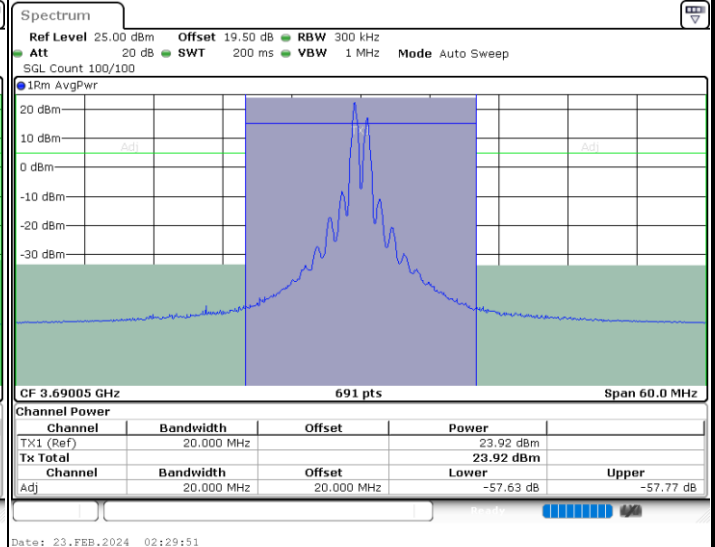
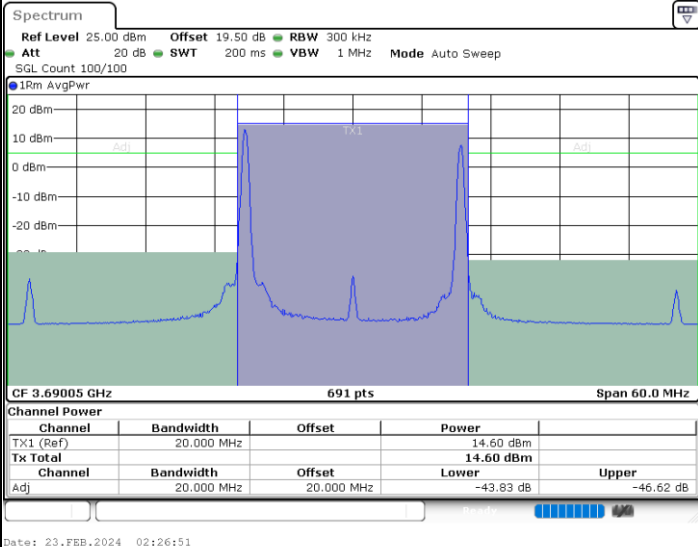


LTE Band 48B / 10MHz+10MHz

16QAM

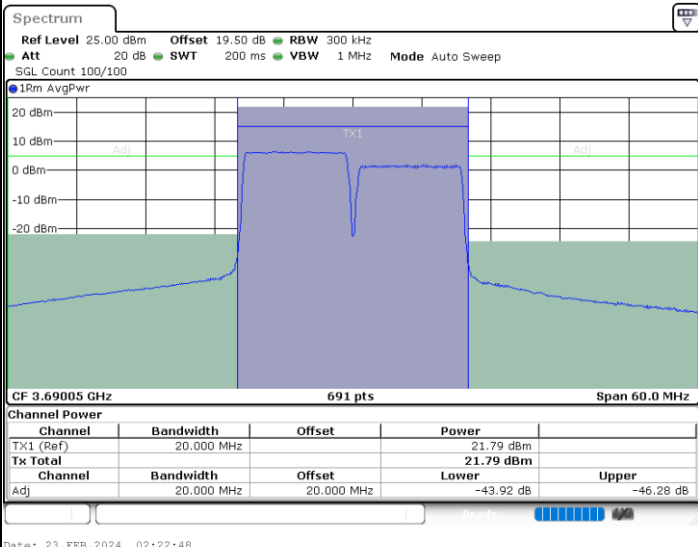
Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



Highest Channel / FullRB

N/A



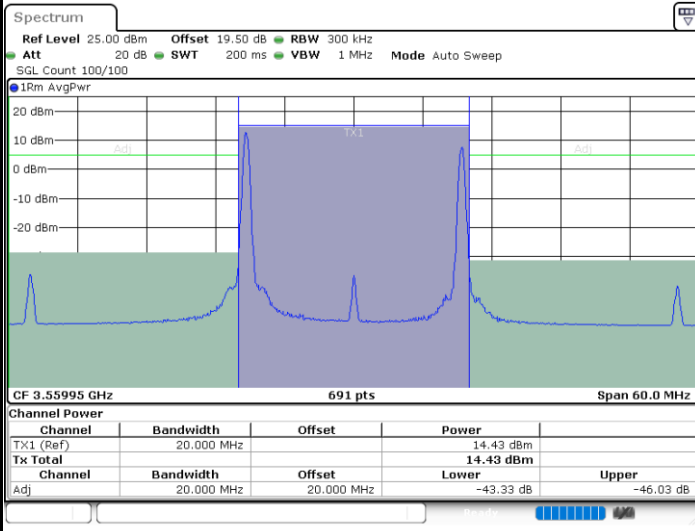


LTE Band 48B / 10MHz+10MHz

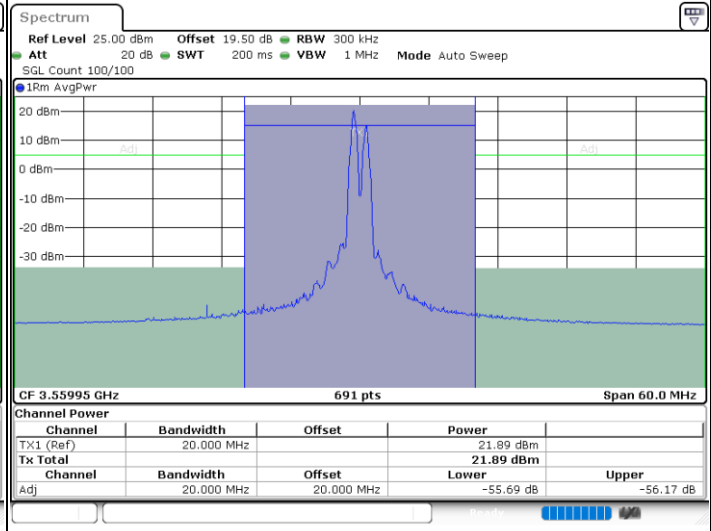
64QAM

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0



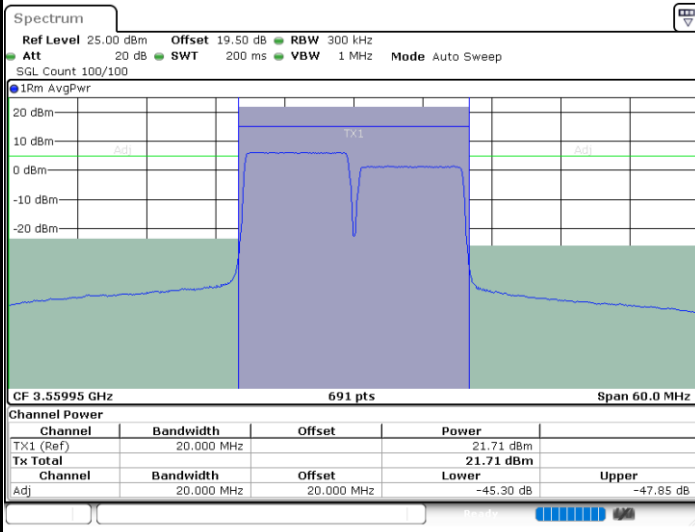
Date: 23.FEB.2024 01:53:49



Date: 23.FEB.2024 02:00:33

Lowest Channel / FullIRB

N/A



Date: 23.FEB.2024 01:53:01

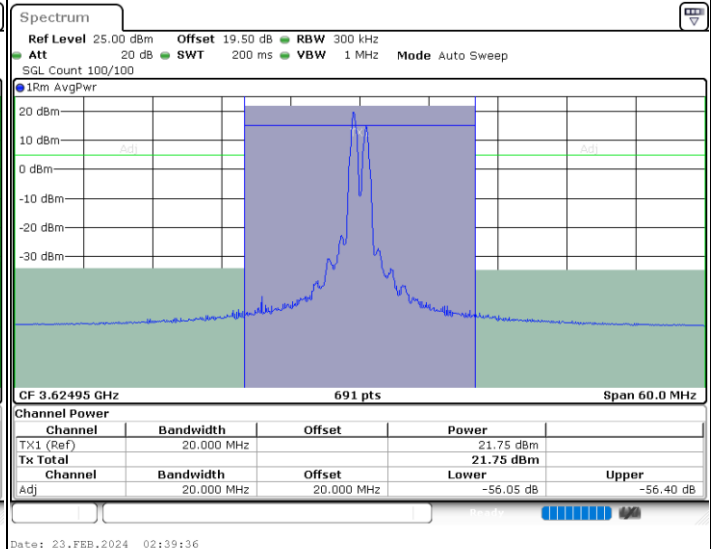
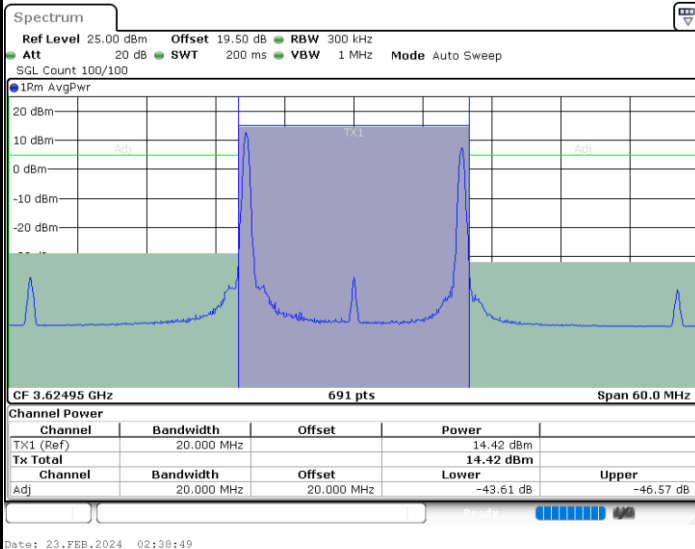


LTE Band 48B / 10MHz+10MHz

64QAM

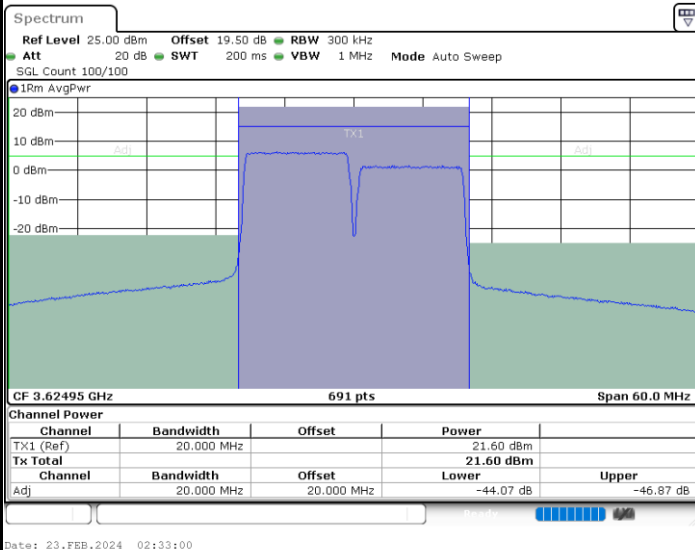
Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



Middle Channel / FullIRB

N/A



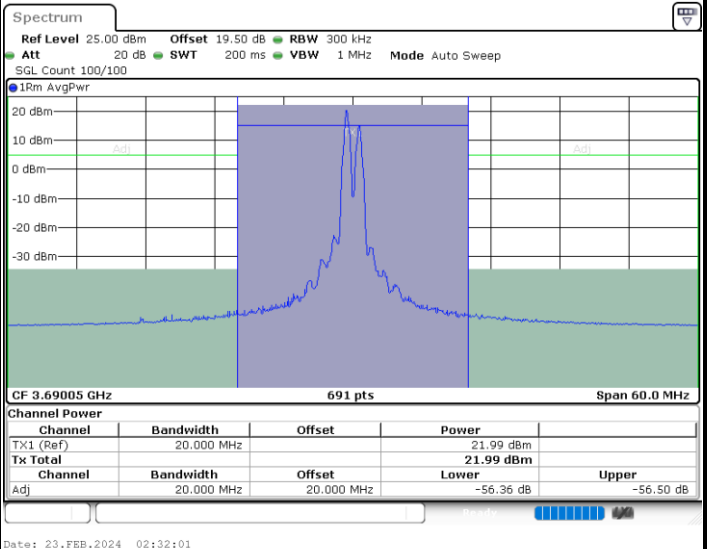
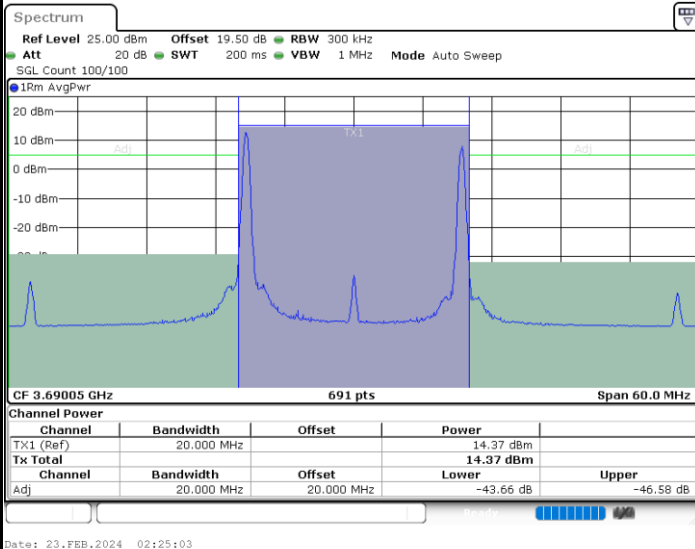


LTE Band 48B / 10MHz+10MHz

64QAM

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0

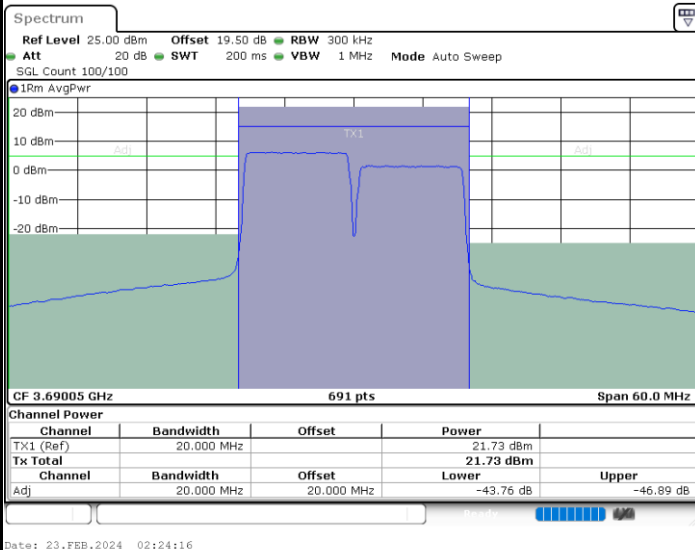


Date: 23.FEB.2024 02:25:03

Date: 23.FEB.2024 02:32:01

Highest Channel / FullRB

N/A



Date: 23.FEB.2024 02:24:16



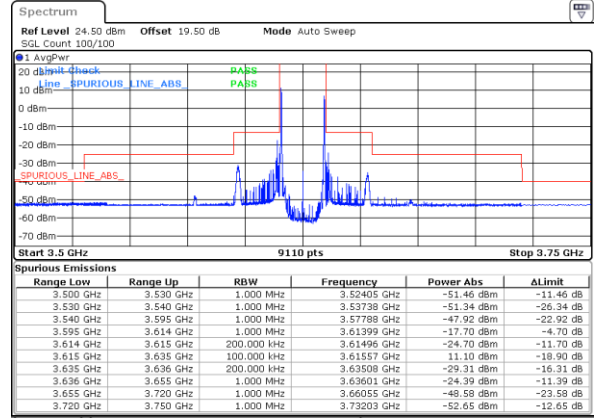
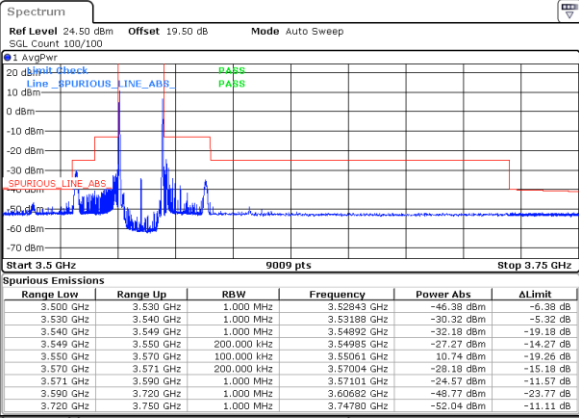
Conducted Band Edge

LTE Band 48B / 10MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49

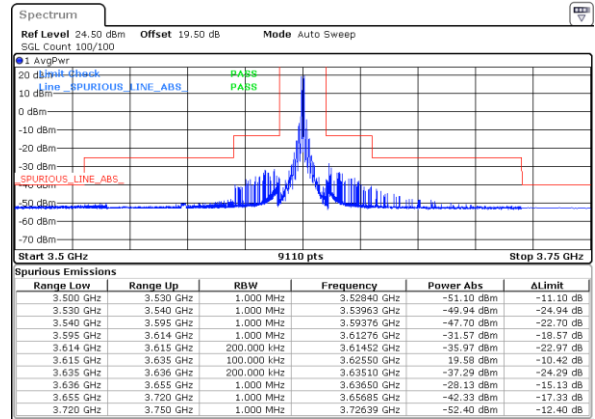
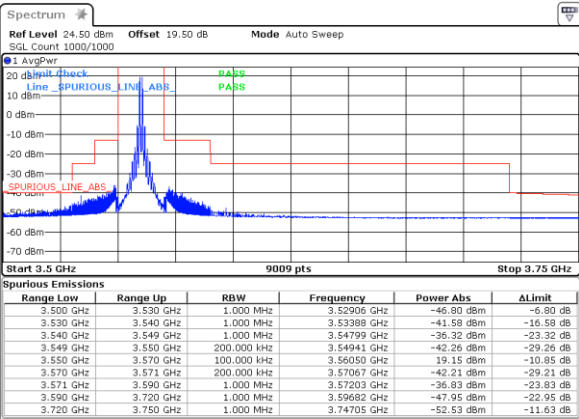


Date: 10.APR.2024 18:07:27

Date: 10.APR.2024 18:24:42

Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0



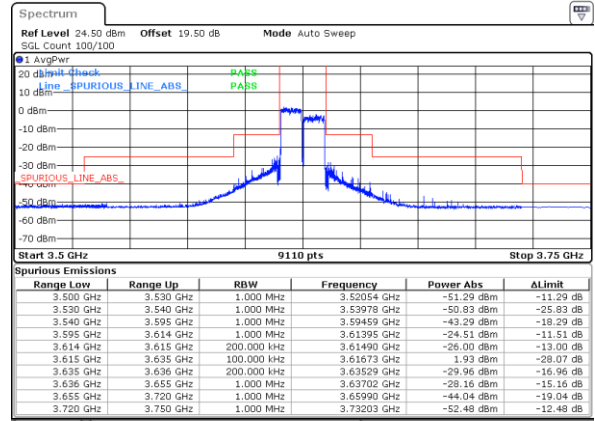
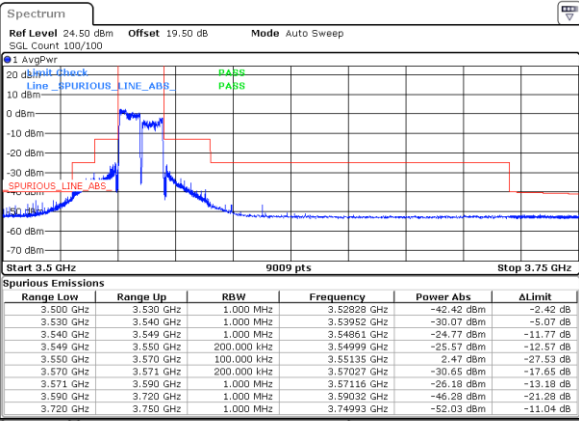
Date: 10.APR.2024 18:37:17

Date: 10.APR.2024 18:25:39



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 10_APR.2024 18:08:24

Date: 10_APR.2024 18:19:56

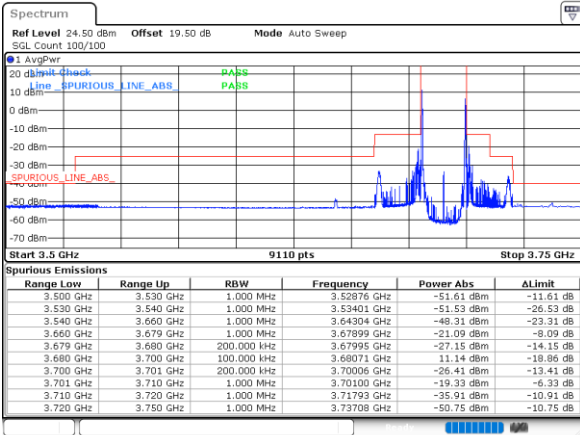


LTE Band 48B / 10MHz+10MHz

QPSK

Highest Band Edge / 1RB0 and 1RB49

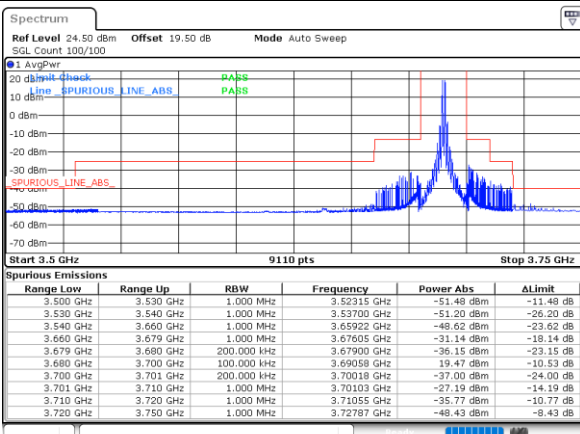
N/A



Date: 10.APR.2024 18:14:10

Highest Band Edge / 1RB49 and 1RB0

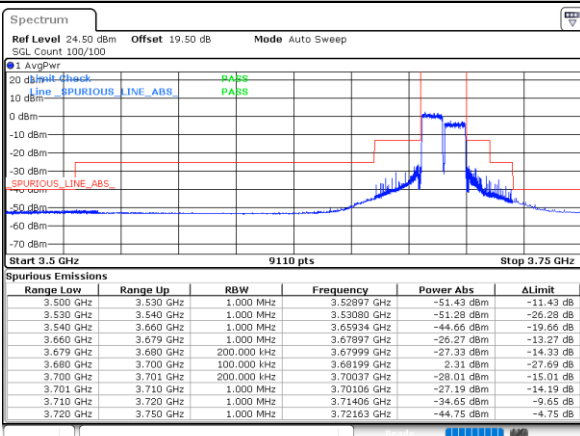
N/A



Date: 10.APR.2024 18:18:55

Highest Band Edge / Full RB

N/A



Date: 10.APR.2024 18:13:13

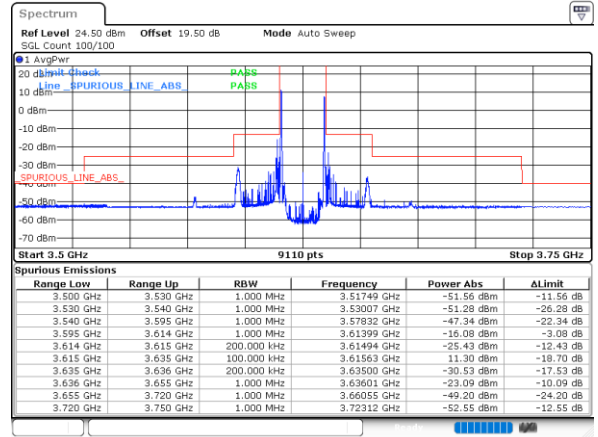
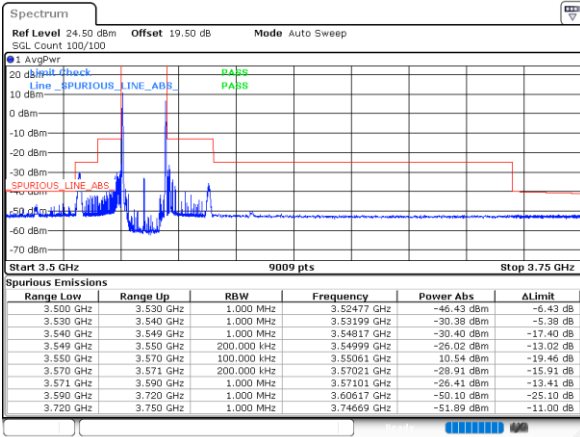


LTE Band 48B / 10MHz+10MHz

16QAM

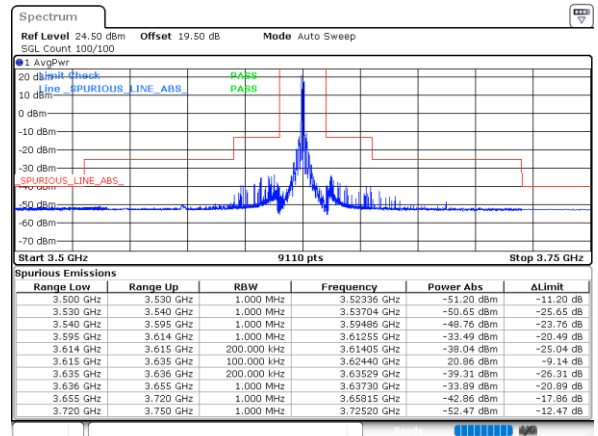
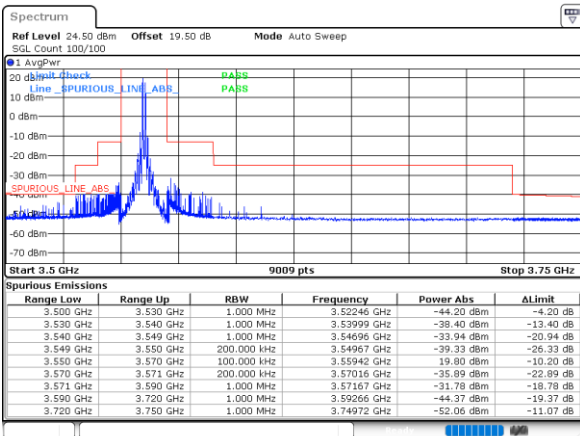
Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49



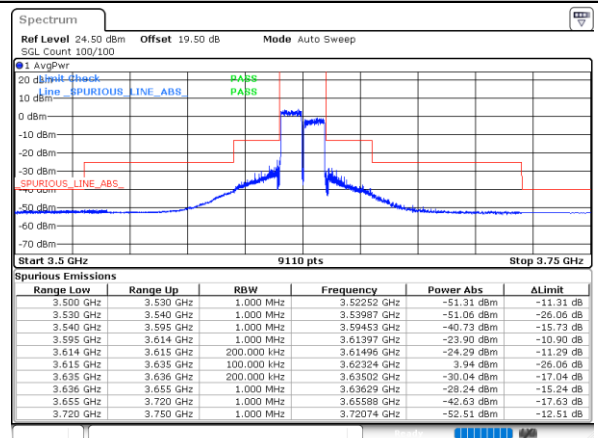
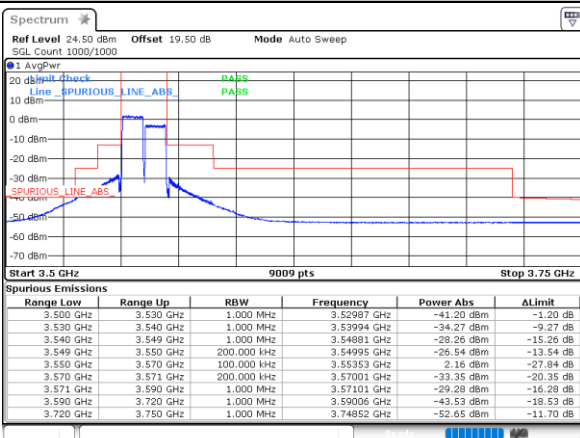
Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



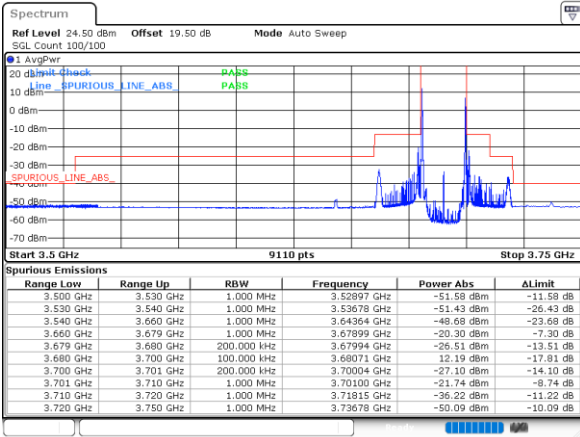


LTE Band 48B / 10MHz+10MHz

16QAM

Highest Band Edge / 1RB0 and 1RB49

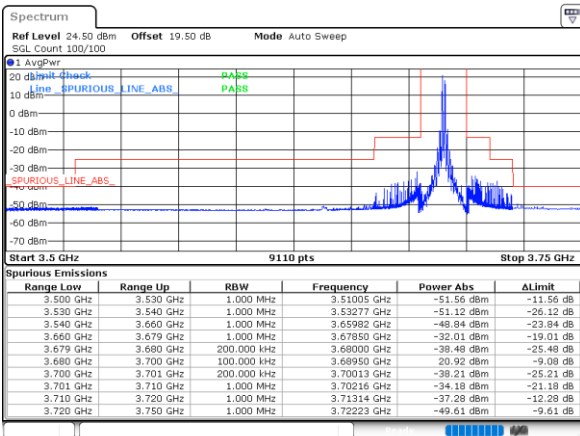
N/A



Date: 10.APR.2024 18:15:07

Highest Band Edge / 1RB49 and 1RB0

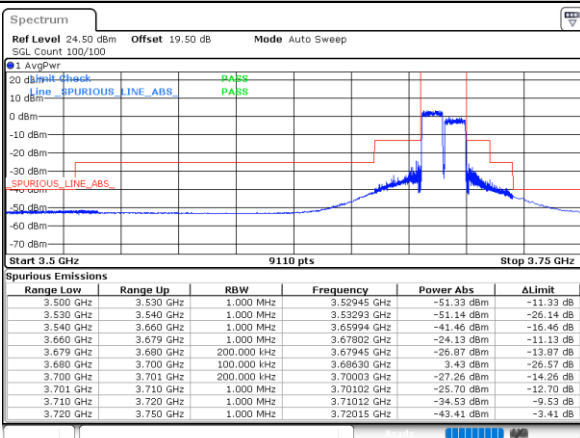
N/A



Date: 10.APR.2024 18:17:58

Highest Band Edge / Full RB

N/A



Date: 10.APR.2024 18:12:16