

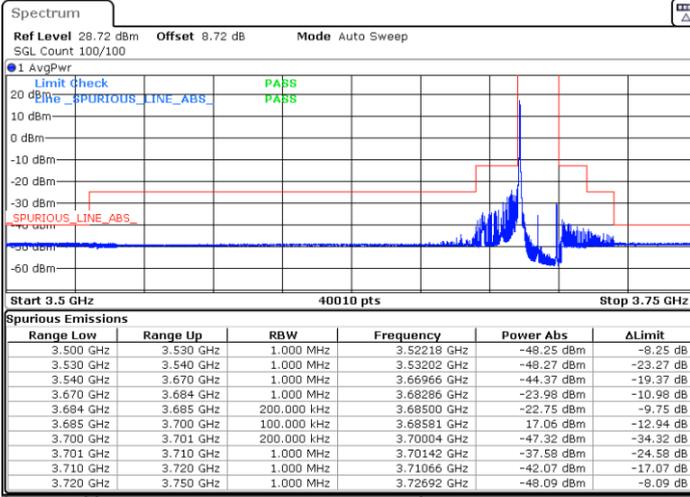


LTE Band 48 / 15MHz

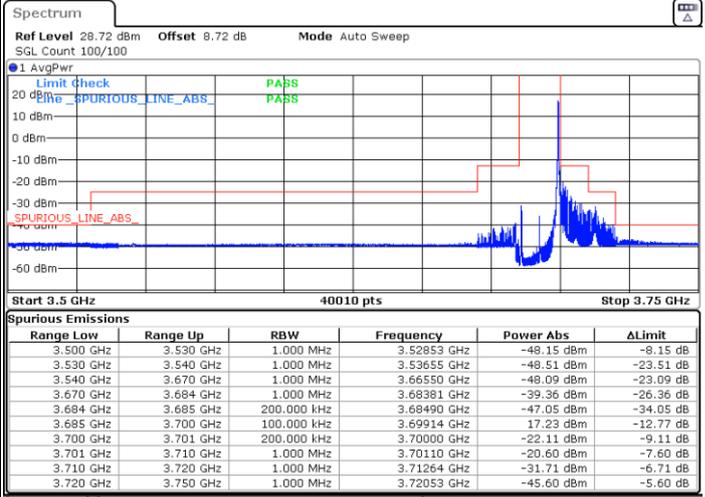
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



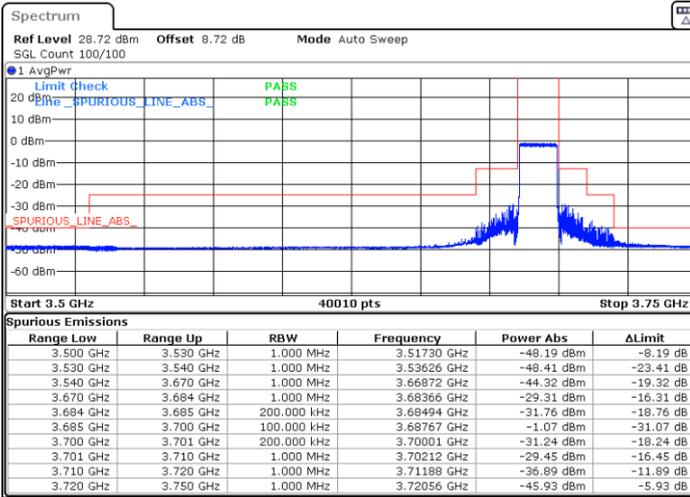
Date: 5.NOV.2024 11:46:04



Date: 5.NOV.2024 11:52:57

Highest Channel / FullIRB

N/A



Date: 5.NOV.2024 11:59:49

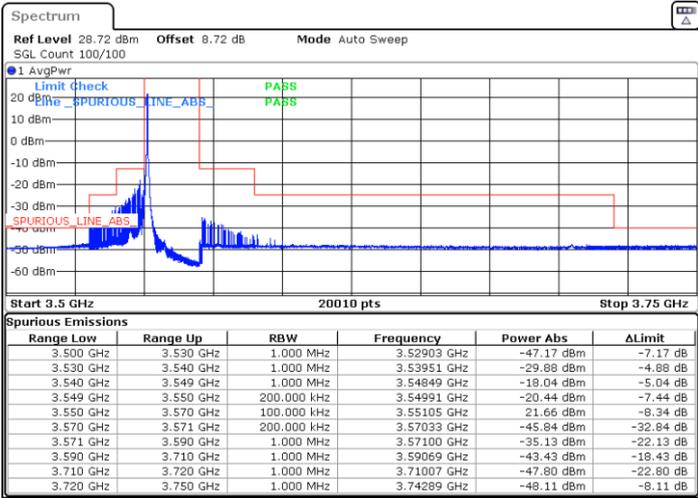


LTE Band 48 / 20MHz

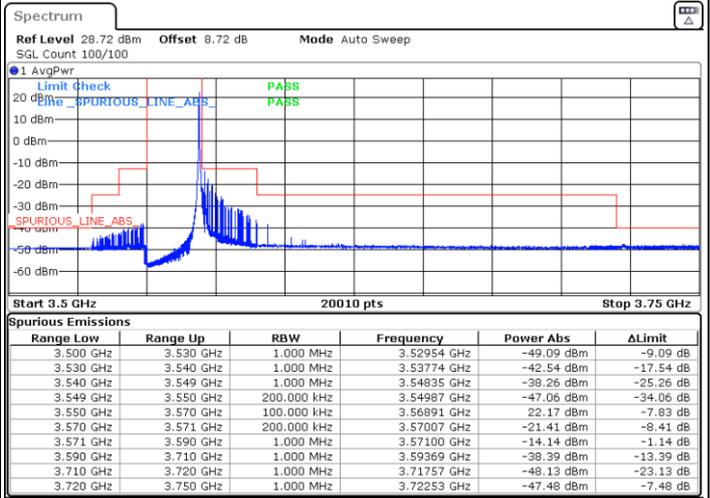
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



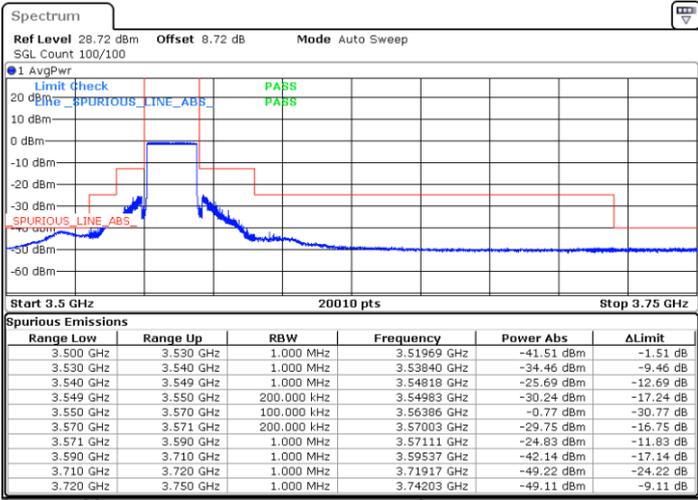
Date: 5.NOV.2024 12:01:33



Date: 5.NOV.2024 12:08:24

Lowest Channel / FullIRB

N/A



Date: 8.NOV.2024 10:43:16

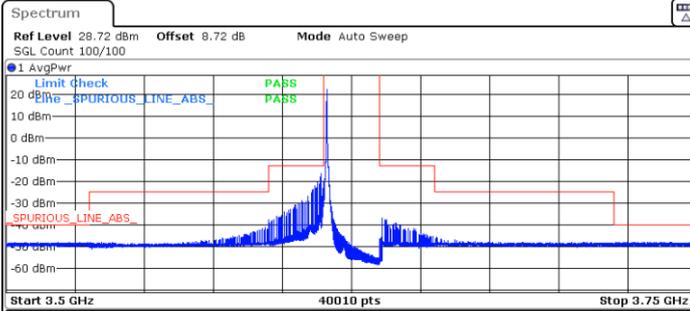


LTE Band 48 / 20MHz

QPSK

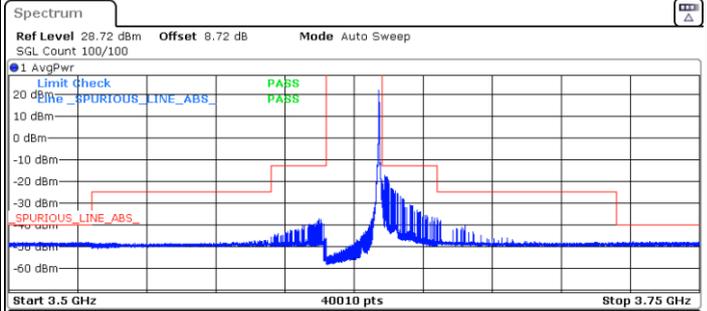
Middle Channel / 1RB0

Middle Channel / 1RBmax



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52941 GHz	-47.95 dBm	-7.95 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53462 GHz	-48.22 dBm	-23.22 dB
3.540 GHz	3.595 GHz	1.000 MHz	3.59495 GHz	-40.84 dBm	-15.84 dB
3.595 GHz	3.614 GHz	1.000 MHz	3.61377 GHz	-16.30 dBm	-3.30 dB
3.614 GHz	3.615 GHz	200.000 kHz	3.61500 GHz	-20.31 dBm	-7.31 dB
3.615 GHz	3.635 GHz	100.000 kHz	3.61607 GHz	22.35 dBm	-7.65 dB
3.635 GHz	3.636 GHz	200.000 kHz	3.63586 GHz	-45.69 dBm	-32.69 dB
3.636 GHz	3.655 GHz	1.000 MHz	3.63610 GHz	-36.87 dBm	-23.87 dB
3.655 GHz	3.720 GHz	1.000 MHz	3.65584 GHz	-45.59 dBm	-20.59 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74053 GHz	-47.91 dBm	-7.91 dB

Date: 5.NOV.2024 12:22:06

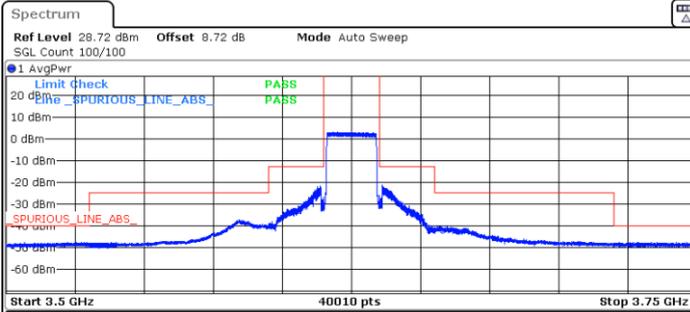


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52640 GHz	-48.07 dBm	-8.07 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53807 GHz	-48.32 dBm	-23.32 dB
3.540 GHz	3.595 GHz	1.000 MHz	3.59246 GHz	-47.17 dBm	-22.17 dB
3.595 GHz	3.614 GHz	1.000 MHz	3.61240 GHz	-37.29 dBm	-24.29 dB
3.614 GHz	3.615 GHz	200.000 kHz	3.61452 GHz	-46.20 dBm	-33.20 dB
3.615 GHz	3.635 GHz	100.000 kHz	3.63389 GHz	22.04 dBm	-7.96 dB
3.635 GHz	3.636 GHz	200.000 kHz	3.63527 GHz	-19.77 dBm	-6.77 dB
3.636 GHz	3.655 GHz	1.000 MHz	3.63605 GHz	-17.39 dBm	-4.39 dB
3.655 GHz	3.720 GHz	1.000 MHz	3.65522 GHz	-36.88 dBm	-11.88 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73205 GHz	-47.78 dBm	-7.78 dB

Date: 5.NOV.2024 12:28:56

Middle Channel / Full

N/A



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52538 GHz	-47.65 dBm	-7.65 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53975 GHz	-47.80 dBm	-22.80 dB
3.540 GHz	3.595 GHz	1.000 MHz	3.58420 GHz	-37.35 dBm	-12.35 dB
3.595 GHz	3.614 GHz	1.000 MHz	3.61351 GHz	-21.71 dBm	-8.71 dB
3.614 GHz	3.615 GHz	200.000 kHz	3.61491 GHz	-26.88 dBm	-13.88 dB
3.615 GHz	3.635 GHz	100.000 kHz	3.61833 GHz	2.96 dBm	-27.04 dB
3.635 GHz	3.636 GHz	200.000 kHz	3.63506 GHz	-26.22 dBm	-13.22 dB
3.636 GHz	3.655 GHz	1.000 MHz	3.63608 GHz	-21.35 dBm	-8.35 dB
3.655 GHz	3.720 GHz	1.000 MHz	3.65712 GHz	-40.34 dBm	-15.34 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73529 GHz	-47.69 dBm	-7.69 dB

Date: 5.NOV.2024 12:35:45

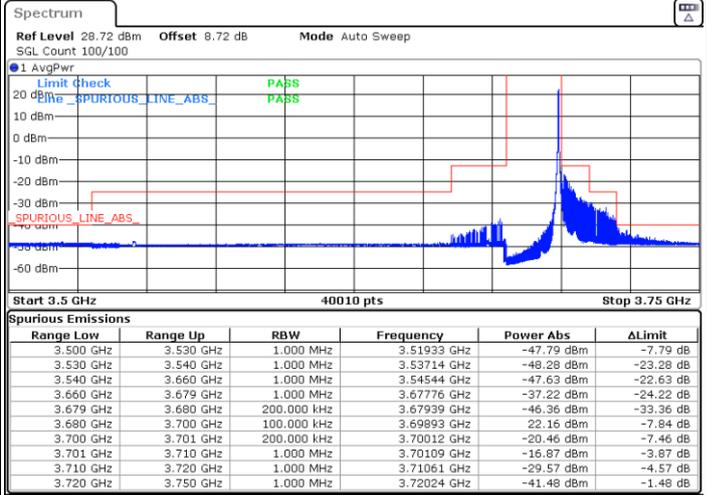
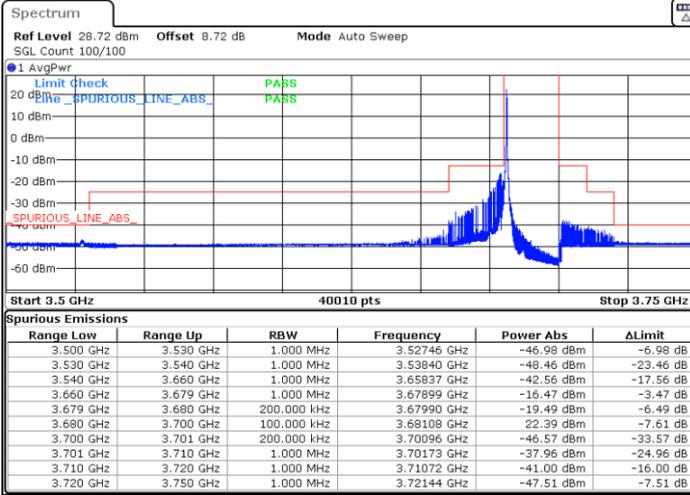


LTE Band 48 / 20MHz

QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

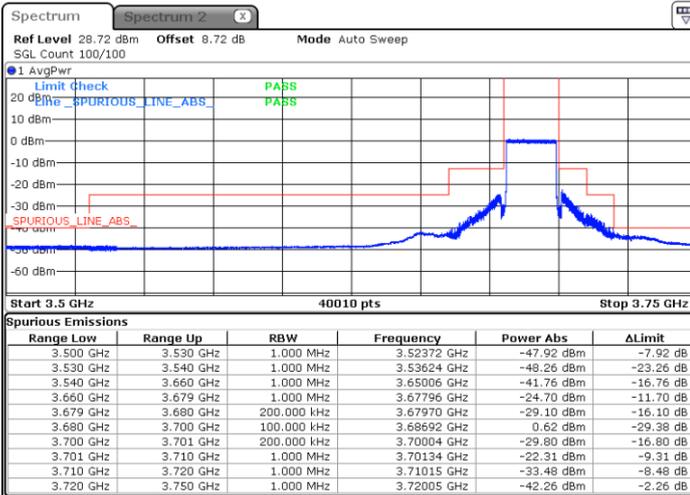


Date: 5.NOV.2024 12:42:36

Date: 5.NOV.2024 12:49:30

Highest Channel / FullIRB

N/A



Date: 6.NOV.2024 17:33:54

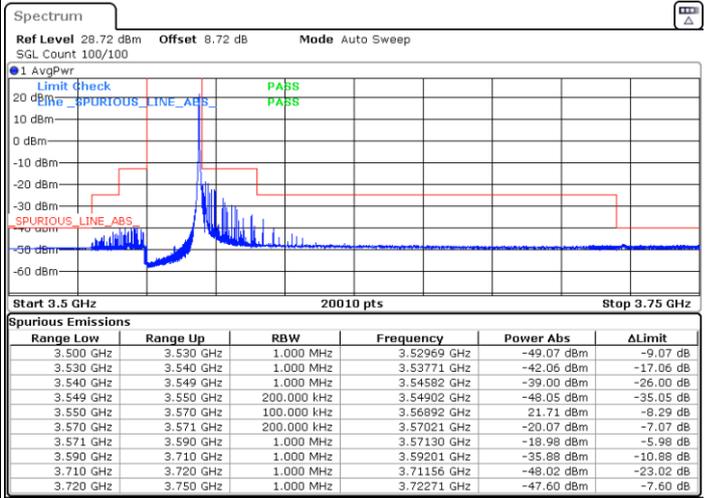
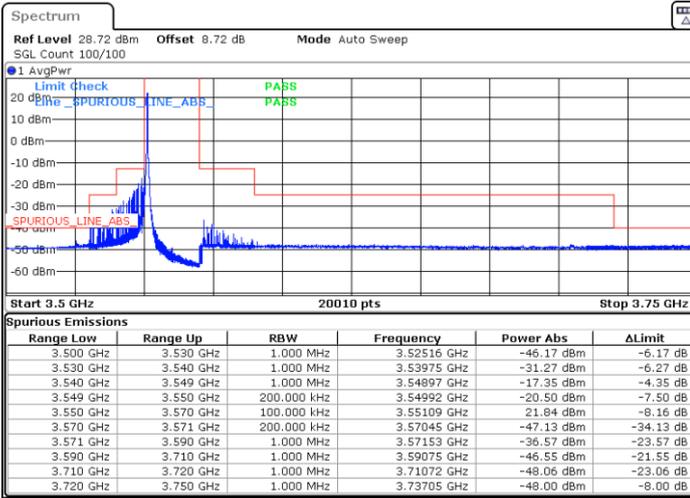


LTE Band 48 / 20MHz

16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

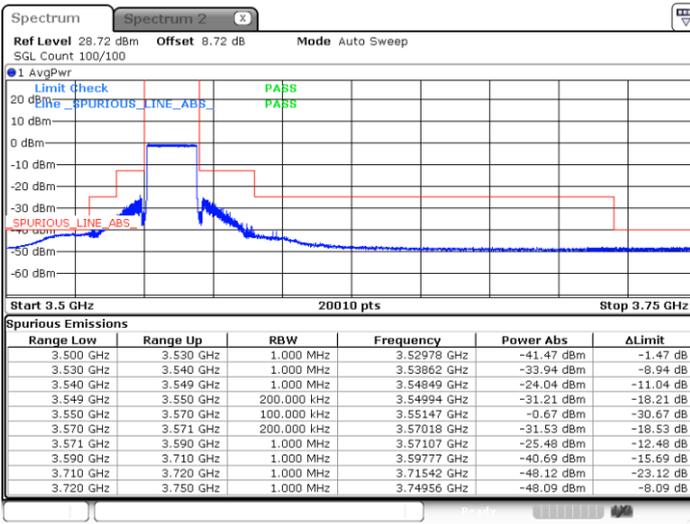


Date: 5.NOV.2024 12:03:16

Date: 5.NOV.2024 12:10:07

Lowest Channel / FullIRB

N/A



Date: 6.NOV.2024 17:29:20

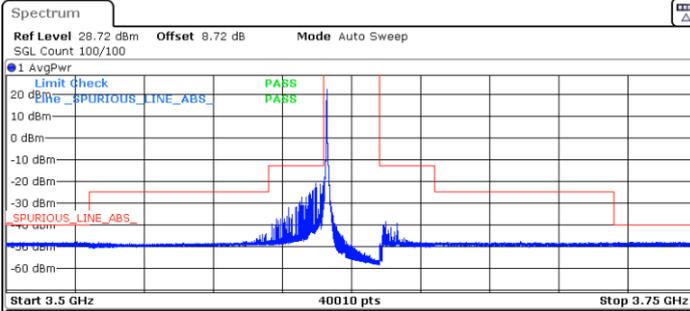


LTE Band 48 / 20MHz

16QAM

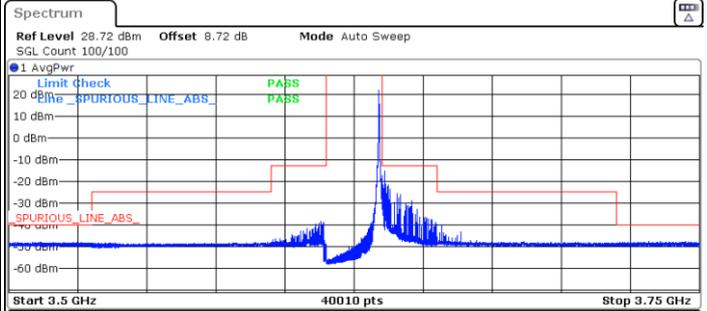
Middle Channel / 1RB0

Middle Channel / 1RBmax



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52571 GHz	-47.86 dBm	-7.86 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53353 GHz	-48.12 dBm	-23.12 dB
3.540 GHz	3.595 GHz	1.000 MHz	3.59388 GHz	-44.00 dBm	-19.00 dB
3.595 GHz	3.614 GHz	1.000 MHz	3.61214 GHz	-20.92 dBm	-7.92 dB
3.614 GHz	3.615 GHz	200.000 kHz	3.61499 GHz	-20.17 dBm	-7.17 dB
3.615 GHz	3.635 GHz	100.000 kHz	3.61612 GHz	22.38 dBm	-7.62 dB
3.635 GHz	3.636 GHz	200.000 kHz	3.63531 GHz	-48.47 dBm	-35.47 dB
3.636 GHz	3.655 GHz	1.000 MHz	3.63729 GHz	-38.43 dBm	-25.43 dB
3.655 GHz	3.720 GHz	1.000 MHz	3.68605 GHz	-47.78 dBm	-22.78 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73748 GHz	-47.89 dBm	-7.89 dB

Date: 5.NOV.2024 12:23:49

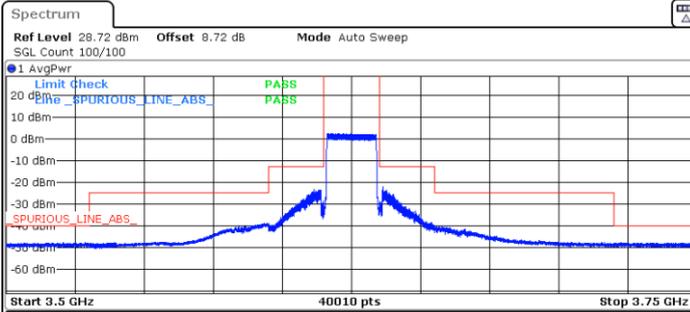


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52350 GHz	-47.97 dBm	-7.97 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53651 GHz	-48.35 dBm	-23.35 dB
3.540 GHz	3.595 GHz	1.000 MHz	3.58916 GHz	-48.19 dBm	-23.19 dB
3.595 GHz	3.614 GHz	1.000 MHz	3.61283 GHz	-38.39 dBm	-25.39 dB
3.614 GHz	3.615 GHz	200.000 kHz	3.61408 GHz	-47.36 dBm	-34.36 dB
3.615 GHz	3.635 GHz	100.000 kHz	3.63394 GHz	21.81 dBm	-8.19 dB
3.635 GHz	3.636 GHz	200.000 kHz	3.63510 GHz	-17.09 dBm	-4.09 dB
3.636 GHz	3.655 GHz	1.000 MHz	3.63603 GHz	-15.43 dBm	-2.43 dB
3.655 GHz	3.720 GHz	1.000 MHz	3.65650 GHz	-40.15 dBm	-15.15 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73153 GHz	-47.77 dBm	-7.77 dB

Date: 5.NOV.2024 12:30:38

Middle Channel / Full

N/A



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52857 GHz	-47.73 dBm	-7.73 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53914 GHz	-47.86 dBm	-22.86 dB
3.540 GHz	3.595 GHz	1.000 MHz	3.59499 GHz	-38.88 dBm	-13.88 dB
3.595 GHz	3.614 GHz	1.000 MHz	3.61126 GHz	-23.28 dBm	-10.28 dB
3.614 GHz	3.615 GHz	200.000 kHz	3.61497 GHz	-28.36 dBm	-15.36 dB
3.615 GHz	3.635 GHz	100.000 kHz	3.61825 GHz	2.34 dBm	-27.66 dB
3.635 GHz	3.636 GHz	200.000 kHz	3.63548 GHz	-28.86 dBm	-15.86 dB
3.636 GHz	3.655 GHz	1.000 MHz	3.63652 GHz	-21.92 dBm	-8.92 dB
3.655 GHz	3.720 GHz	1.000 MHz	3.65757 GHz	-40.45 dBm	-15.45 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74775 GHz	-47.82 dBm	-7.82 dB

Date: 5.NOV.2024 12:37:28

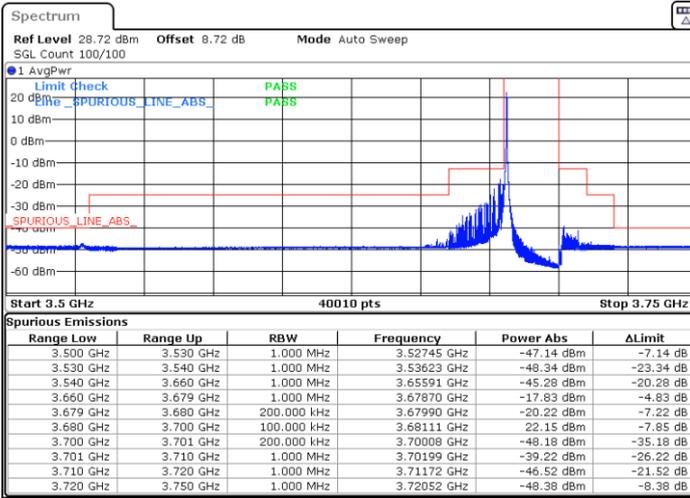


LTE Band 48 / 20MHz

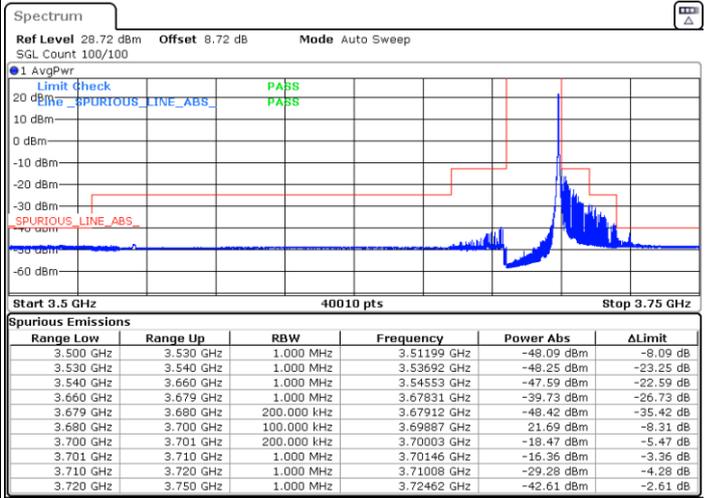
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



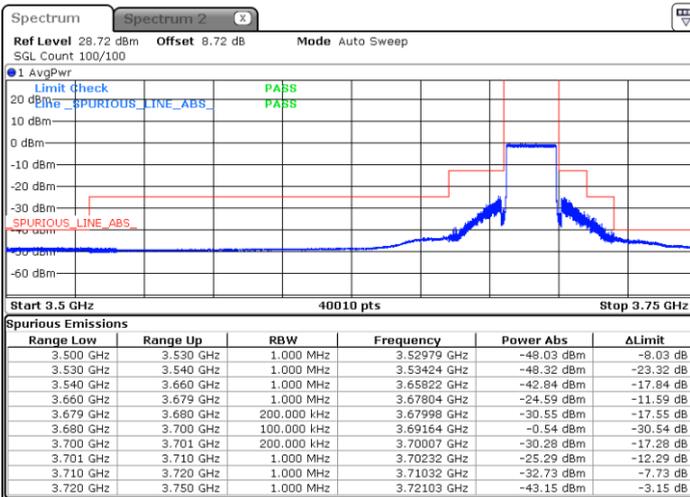
Date: 5.NOV.2024 12:44:20



Date: 5.NOV.2024 12:51:14

Highest Channel / FullIRB

N/A



Date: 6.NOV.2024 17:35:45

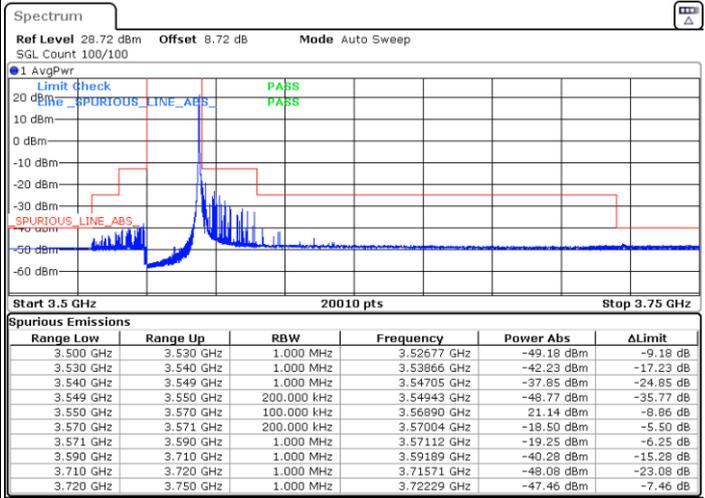
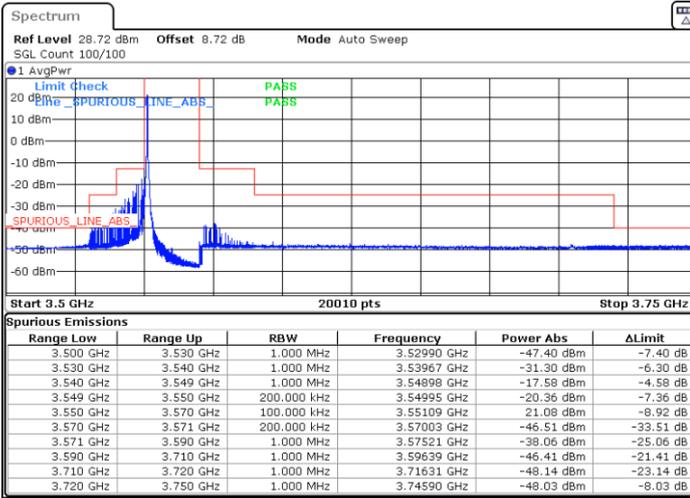


LTE Band 48 / 20MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

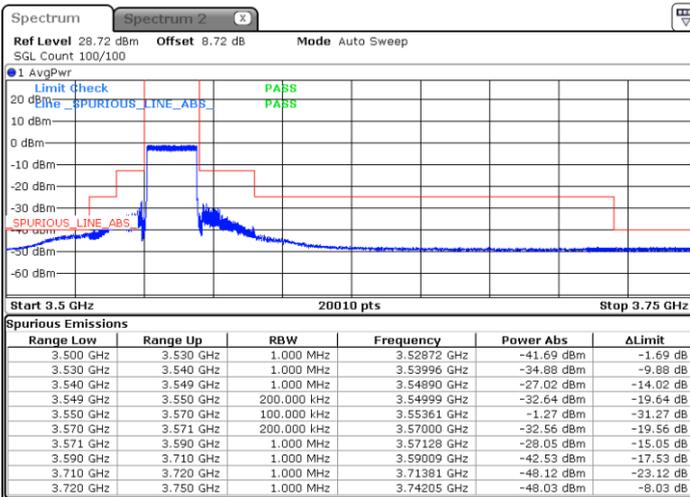


Date: 5.NOV.2024 12:04:58

Date: 5.NOV.2024 12:11:50

Lowest Channel / FullIRB

N/A



Date: 6.NOV.2024 17:31:51

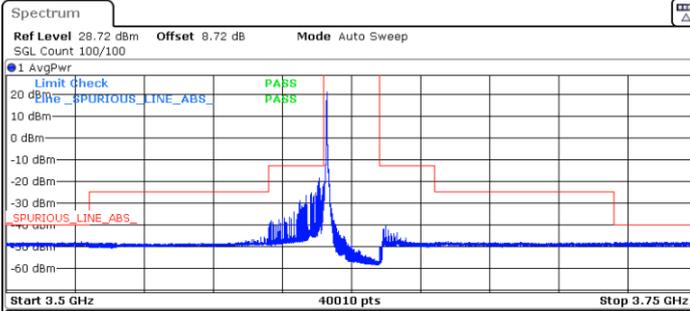


LTE Band 48 / 20MHz

64QAM

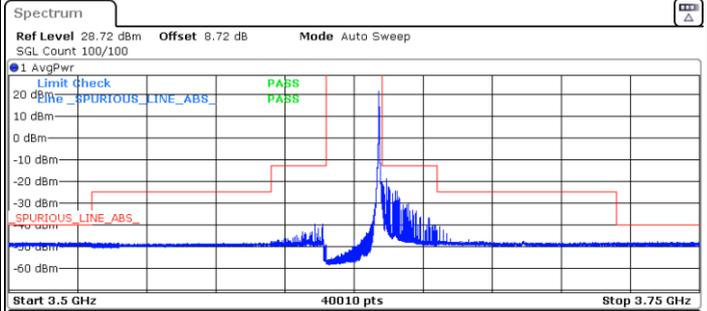
Middle Channel / 1RB0

Middle Channel / 1RBmax



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52727 GHz	-47.79 dBm	-7.79 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53703 GHz	-48.36 dBm	-23.36 dB
3.540 GHz	3.595 GHz	1.000 MHz	3.59204 GHz	-45.53 dBm	-20.53 dB
3.595 GHz	3.614 GHz	1.000 MHz	3.61341 GHz	-18.67 dBm	-5.67 dB
3.614 GHz	3.615 GHz	200.000 kHz	3.61494 GHz	-21.44 dBm	-8.44 dB
3.615 GHz	3.635 GHz	100.000 kHz	3.61604 GHz	21.00 dBm	-9.00 dB
3.635 GHz	3.636 GHz	200.000 kHz	3.63515 GHz	-49.95 dBm	-36.95 dB
3.636 GHz	3.655 GHz	1.000 MHz	3.63719 GHz	-40.22 dBm	-27.22 dB
3.655 GHz	3.720 GHz	1.000 MHz	3.65965 GHz	-47.50 dBm	-22.50 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74648 GHz	-47.98 dBm	-7.98 dB

Date: 5.NOV.2024 12:25:31

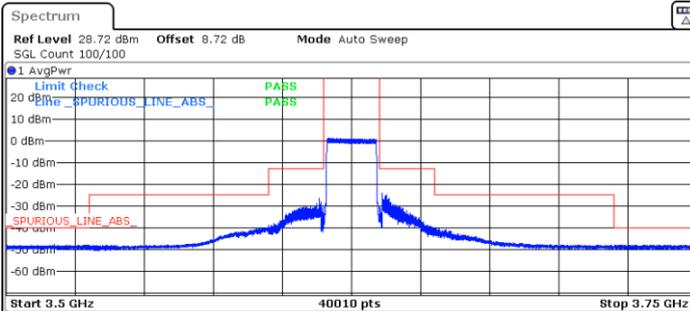


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52205 GHz	-48.00 dBm	-8.00 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53638 GHz	-48.50 dBm	-23.50 dB
3.540 GHz	3.595 GHz	1.000 MHz	3.59349 GHz	-48.28 dBm	-23.28 dB
3.595 GHz	3.614 GHz	1.000 MHz	3.61363 GHz	-39.50 dBm	-26.50 dB
3.614 GHz	3.615 GHz	200.000 kHz	3.61450 GHz	-49.17 dBm	-36.17 dB
3.615 GHz	3.635 GHz	100.000 kHz	3.63392 GHz	21.53 dBm	-8.47 dB
3.635 GHz	3.636 GHz	200.000 kHz	3.63511 GHz	-19.94 dBm	-6.94 dB
3.636 GHz	3.655 GHz	1.000 MHz	3.63679 GHz	-19.03 dBm	-6.03 dB
3.655 GHz	3.720 GHz	1.000 MHz	3.65600 GHz	-40.94 dBm	-15.94 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73486 GHz	-47.75 dBm	-7.75 dB

Date: 5.NOV.2024 12:32:21

Middle Channel / Full

N/A



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51755 GHz	-47.64 dBm	-7.64 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53259 GHz	-47.95 dBm	-22.95 dB
3.540 GHz	3.595 GHz	1.000 MHz	3.59494 GHz	-39.99 dBm	-14.99 dB
3.595 GHz	3.614 GHz	1.000 MHz	3.61340 GHz	-26.29 dBm	-13.29 dB
3.614 GHz	3.615 GHz	200.000 kHz	3.61500 GHz	-30.06 dBm	-17.06 dB
3.615 GHz	3.635 GHz	100.000 kHz	3.61971 GHz	1.11 dBm	-28.89 dB
3.635 GHz	3.636 GHz	200.000 kHz	3.63514 GHz	-30.49 dBm	-17.49 dB
3.636 GHz	3.655 GHz	1.000 MHz	3.63611 GHz	-24.10 dBm	-11.10 dB
3.655 GHz	3.720 GHz	1.000 MHz	3.65537 GHz	-40.21 dBm	-15.21 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74016 GHz	-47.89 dBm	-7.89 dB

Date: 5.NOV.2024 12:39:11

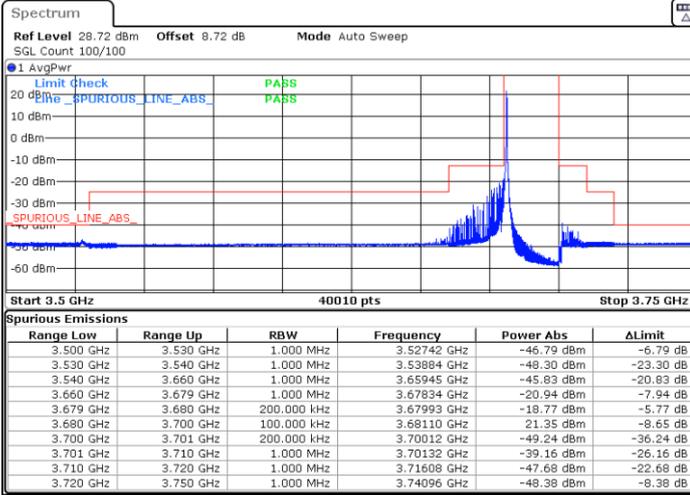


LTE Band 48 / 20MHz

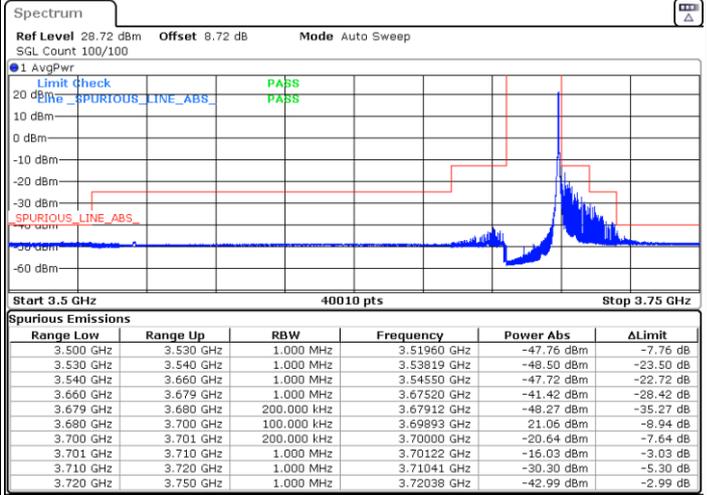
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



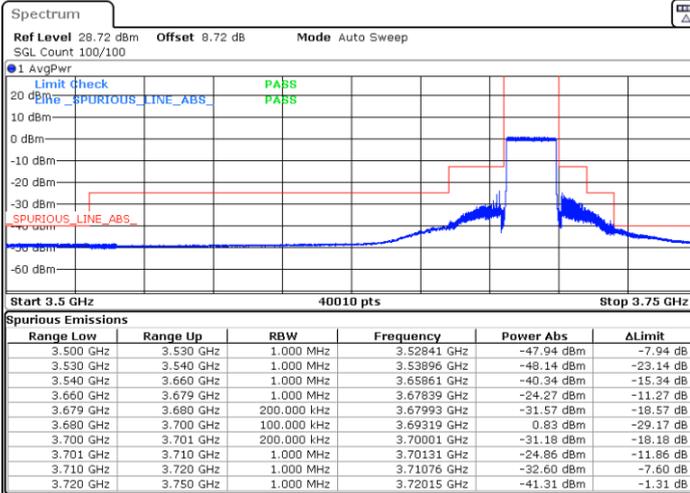
Date: 5.NOV.2024 12:46:03



Date: 5.NOV.2024 12:52:58

Highest Channel / FullIRB

N/A



Date: 5.NOV.2024 12:59:51

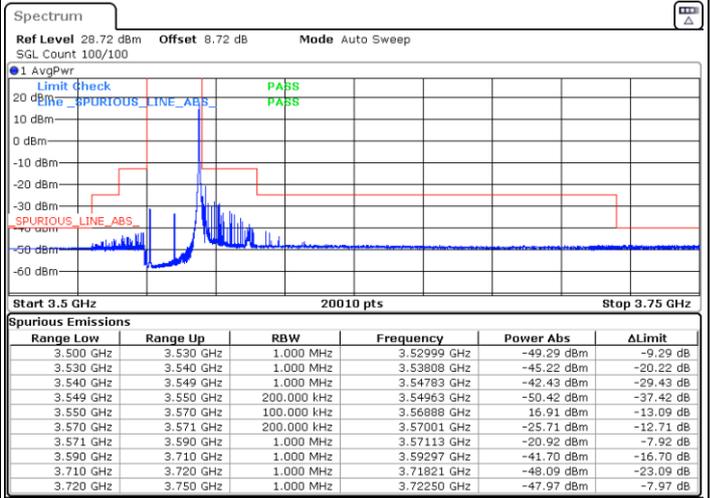
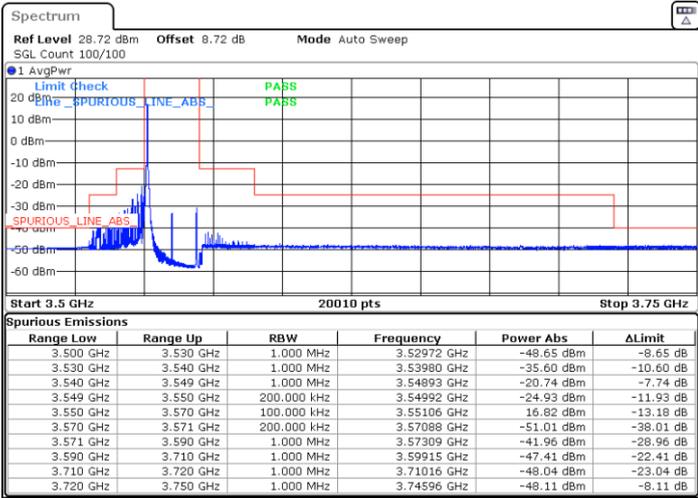


LTE Band 48 / 20MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

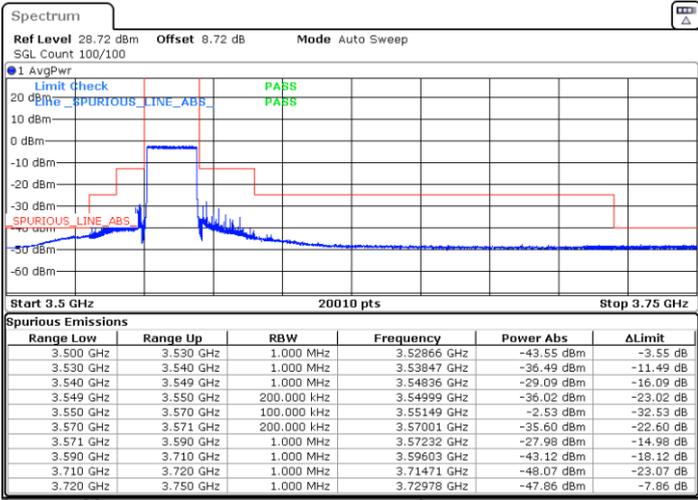


Date: 5.NOV.2024 12:06:41

Date: 5.NOV.2024 12:13:33

Lowest Channel / FullIRB

N/A



Date: 5.NOV.2024 12:20:24

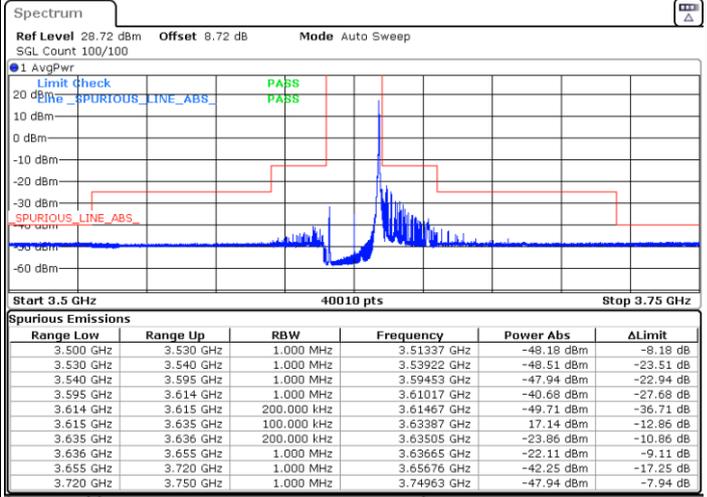
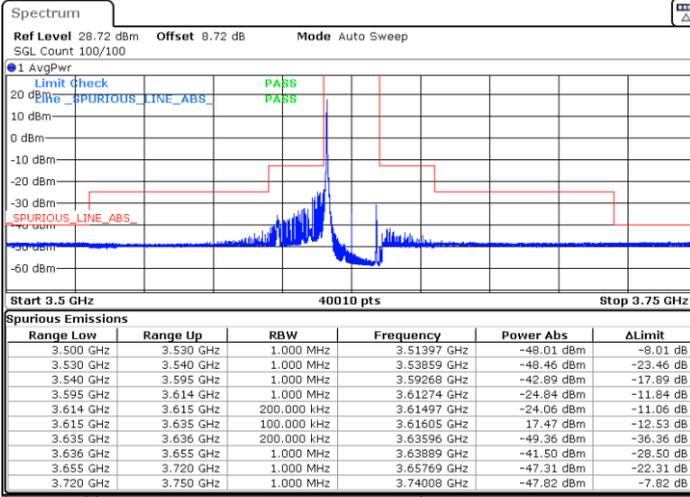


LTE Band 48 / 20MHz

256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

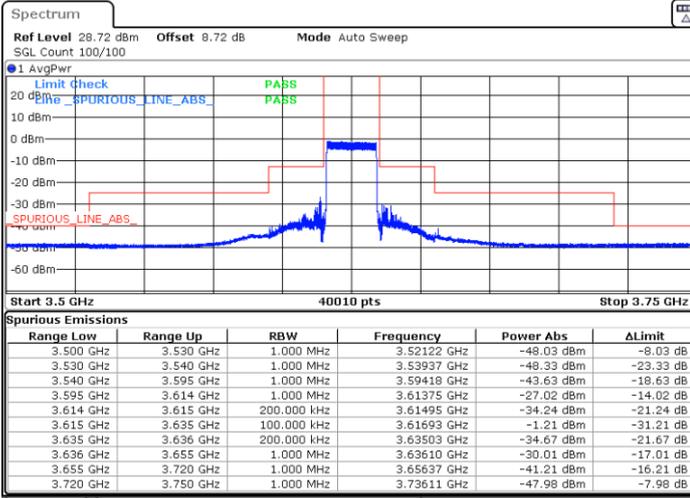


Date: 5.NOV.2024 12:27:14

Date: 5.NOV.2024 12:34:03

Middle Channel / Full

N/A



Date: 5.NOV.2024 12:40:53

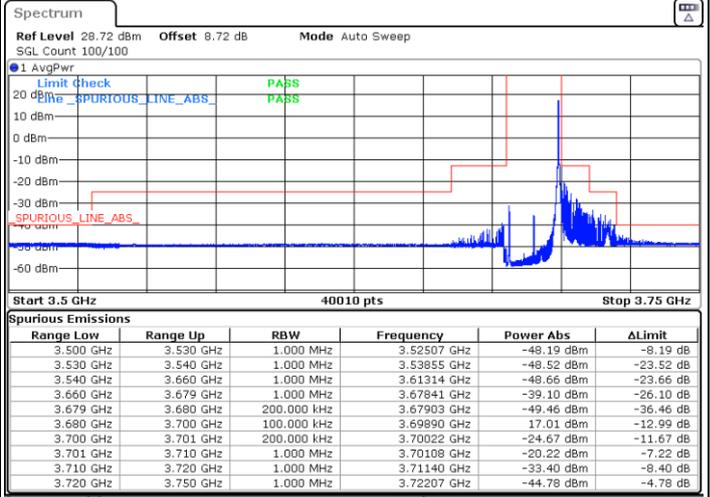
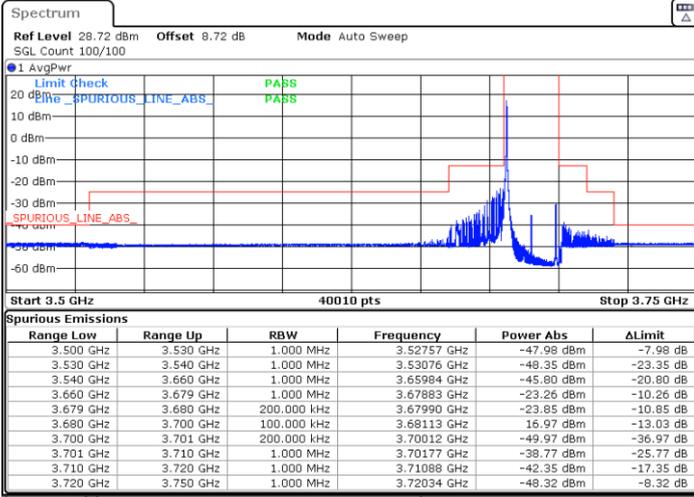


LTE Band 48 / 20MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

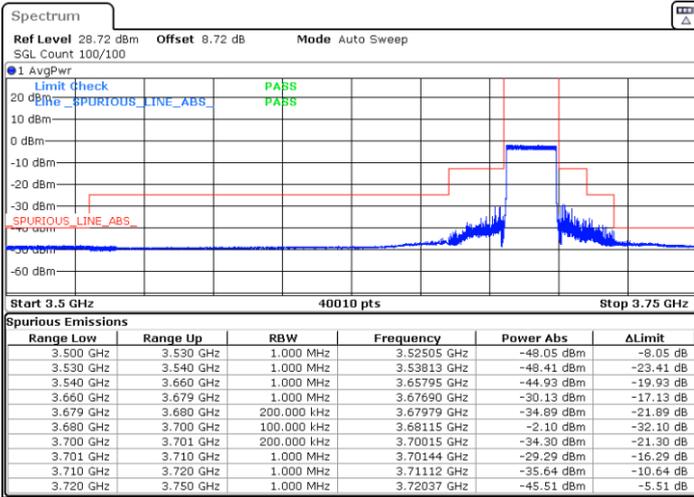


Date: 5.NOV.2024 12:47:47

Date: 5.NOV.2024 12:54:41

Highest Channel / FullIRB

N/A



Date: 5.NOV.2024 13:01:34



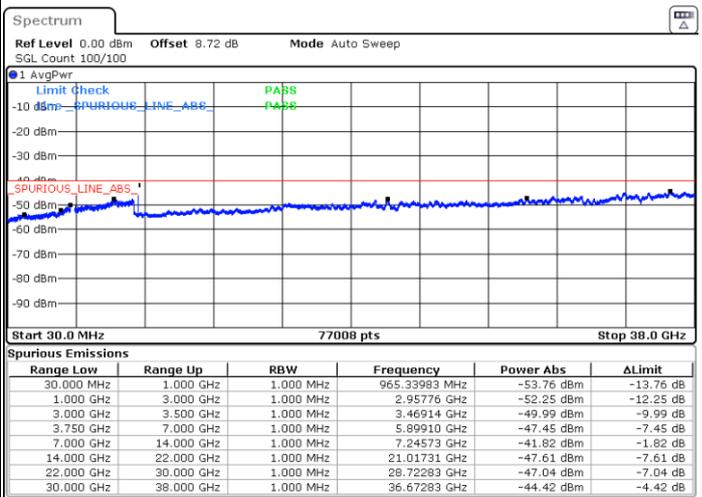
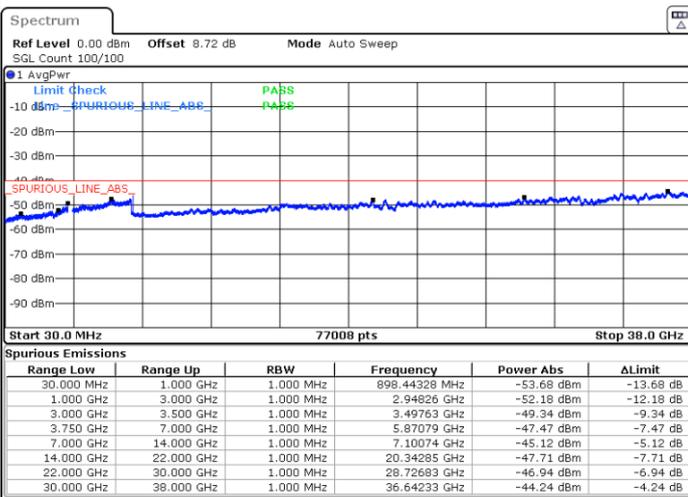
# Conducted Spurious Emission

## LTE Band 48 / 5MHz

### QPSK / 1RB0

#### Lowest Channel

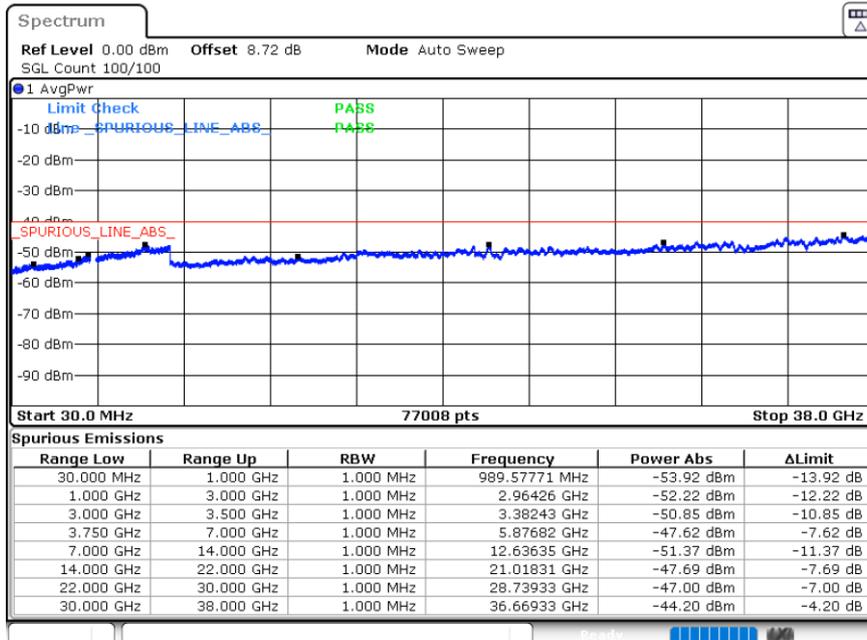
#### Middle Channel



Date: 7.NOV.2024 15:27:47

Date: 7.NOV.2024 15:29:07

#### Highest Channel



Date: 7.NOV.2024 16:32:02

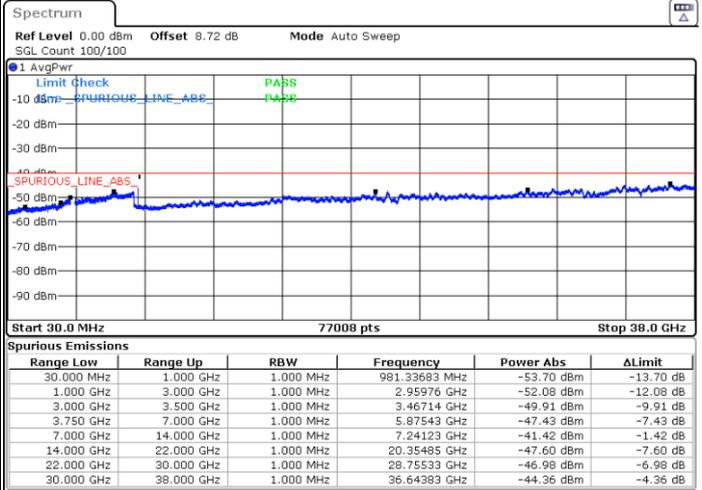
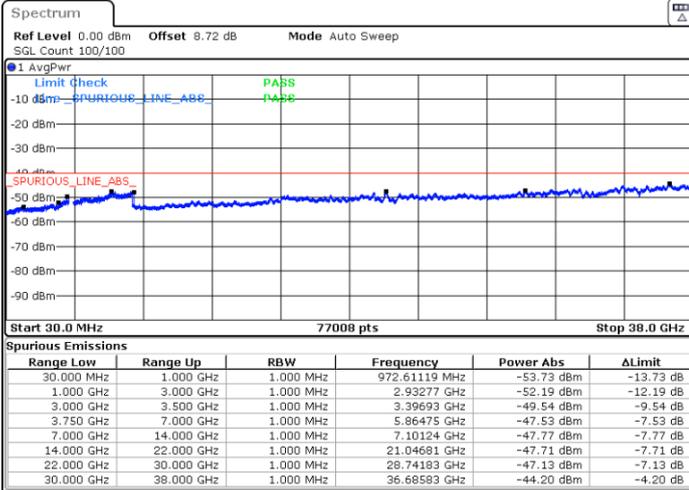


LTE Band 48 / 10MHz

QPSK / 1RB0

Lowest Channel

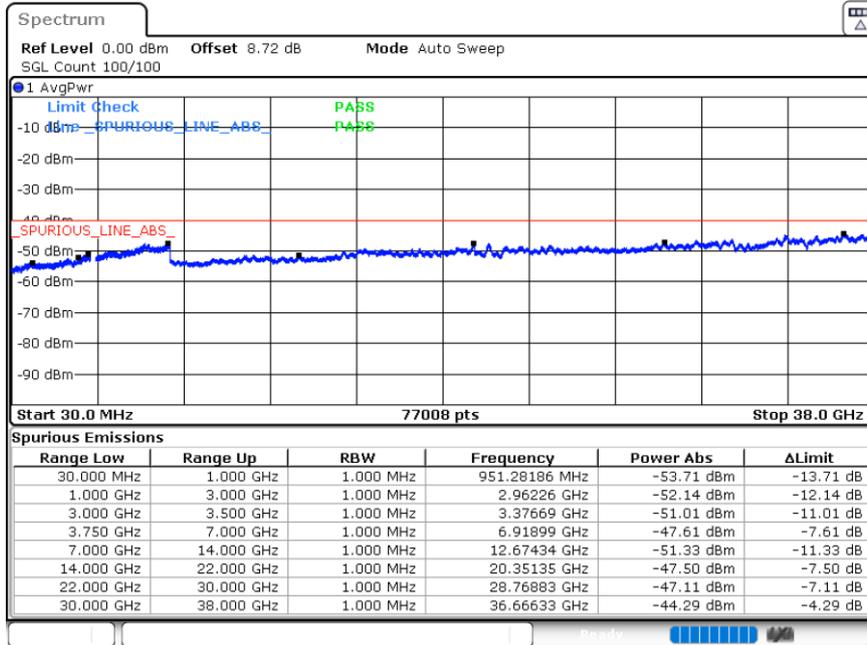
Middle Channel



Date: 7.NOV.2024 15:36:35

Date: 7.NOV.2024 15:37:55

Highest Channel



Date: 7.NOV.2024 16:30:16

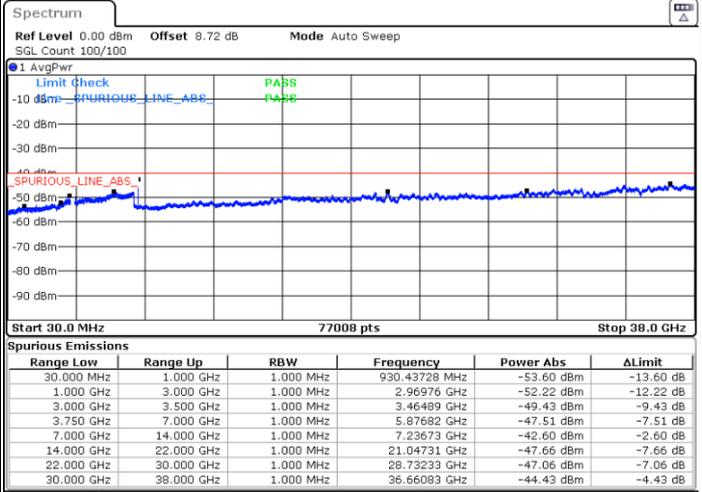
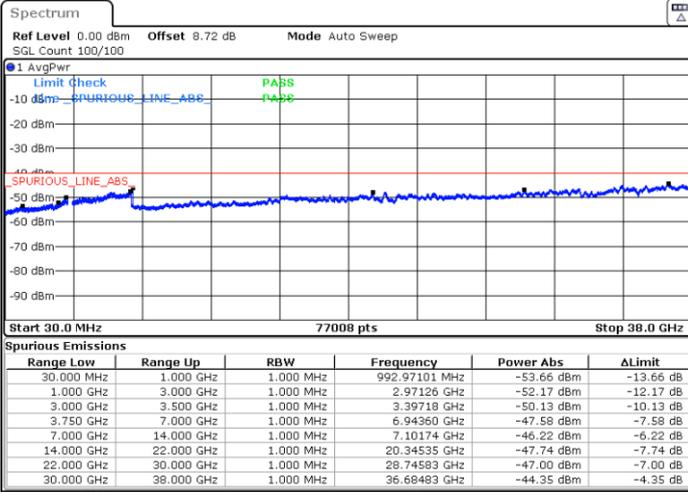


LTE Band 48 / 15MHz

QPSK / 1RB0

Lowest Channel

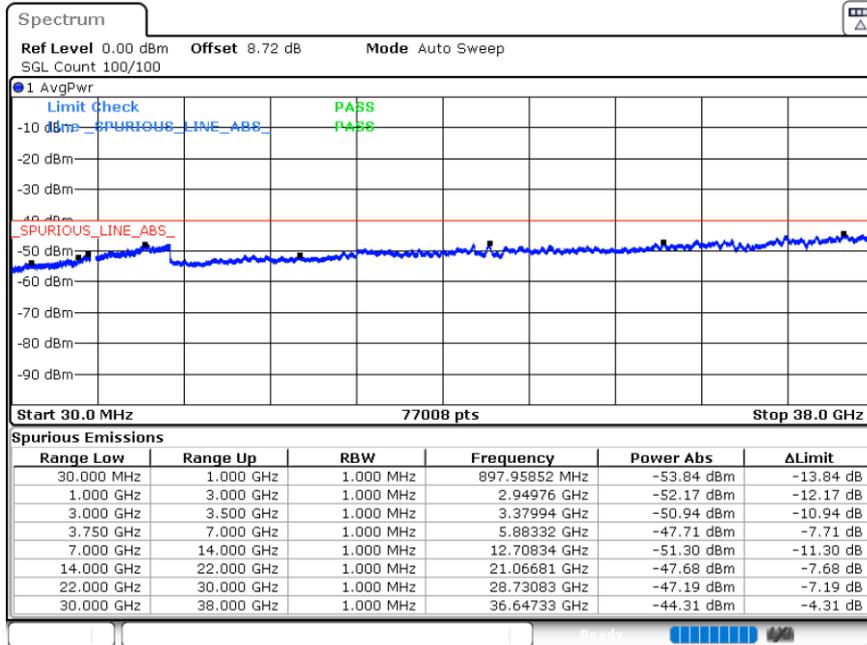
Middle Channel



Date: 7.NOV.2024 15:42:08

Date: 7.NOV.2024 15:43:28

Highest Channel



Date: 7.NOV.2024 16:23:14

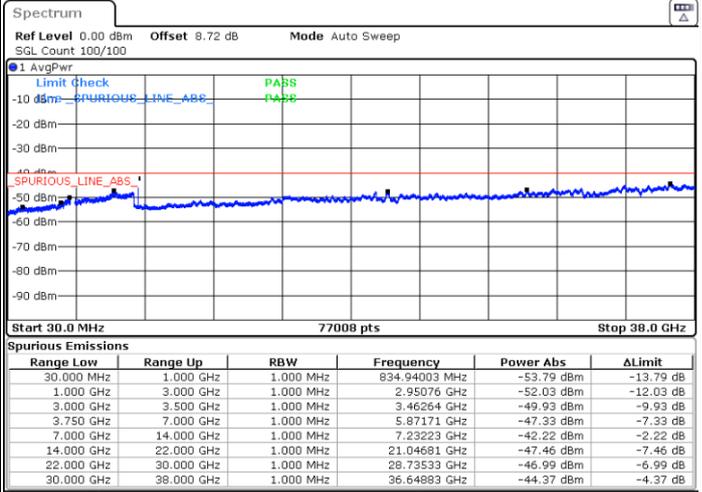
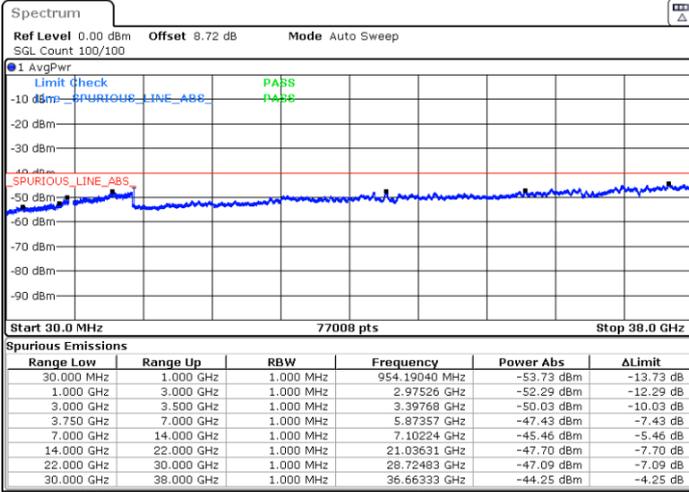


LTE Band 48 / 20MHz

QPSK / 1RB0

Lowest Channel

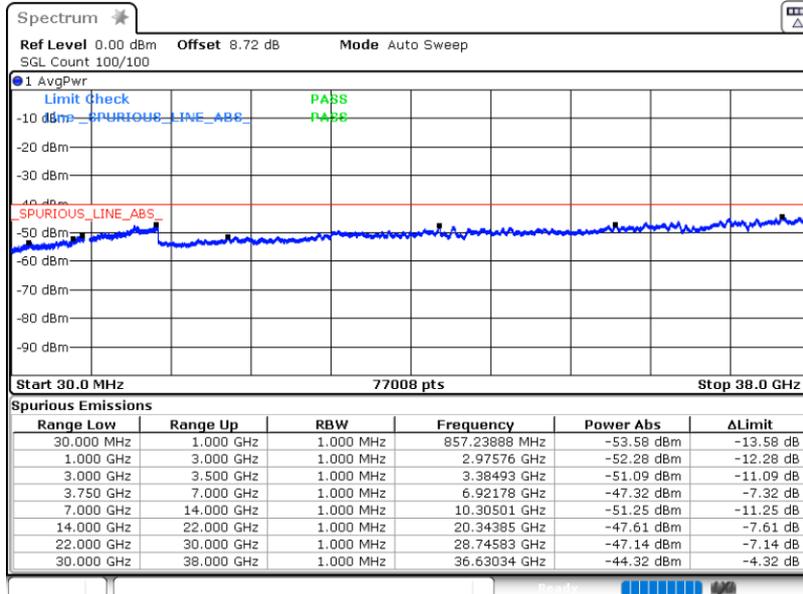
Middle Channel



Date: 7.NOV.2024 15:46:08

Date: 7.NOV.2024 15:47:28

Highest Channel



Date: 7.NOV.2024 16:17:19



Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0034	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0061	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0039	
-20	Normal Voltage	0.0054	
-30	Normal Voltage	0.0068	
20	Maximum Voltage	0.0073	
20	Normal Voltage	0.0049	
20	Battery End Point	0.0026	

Note:

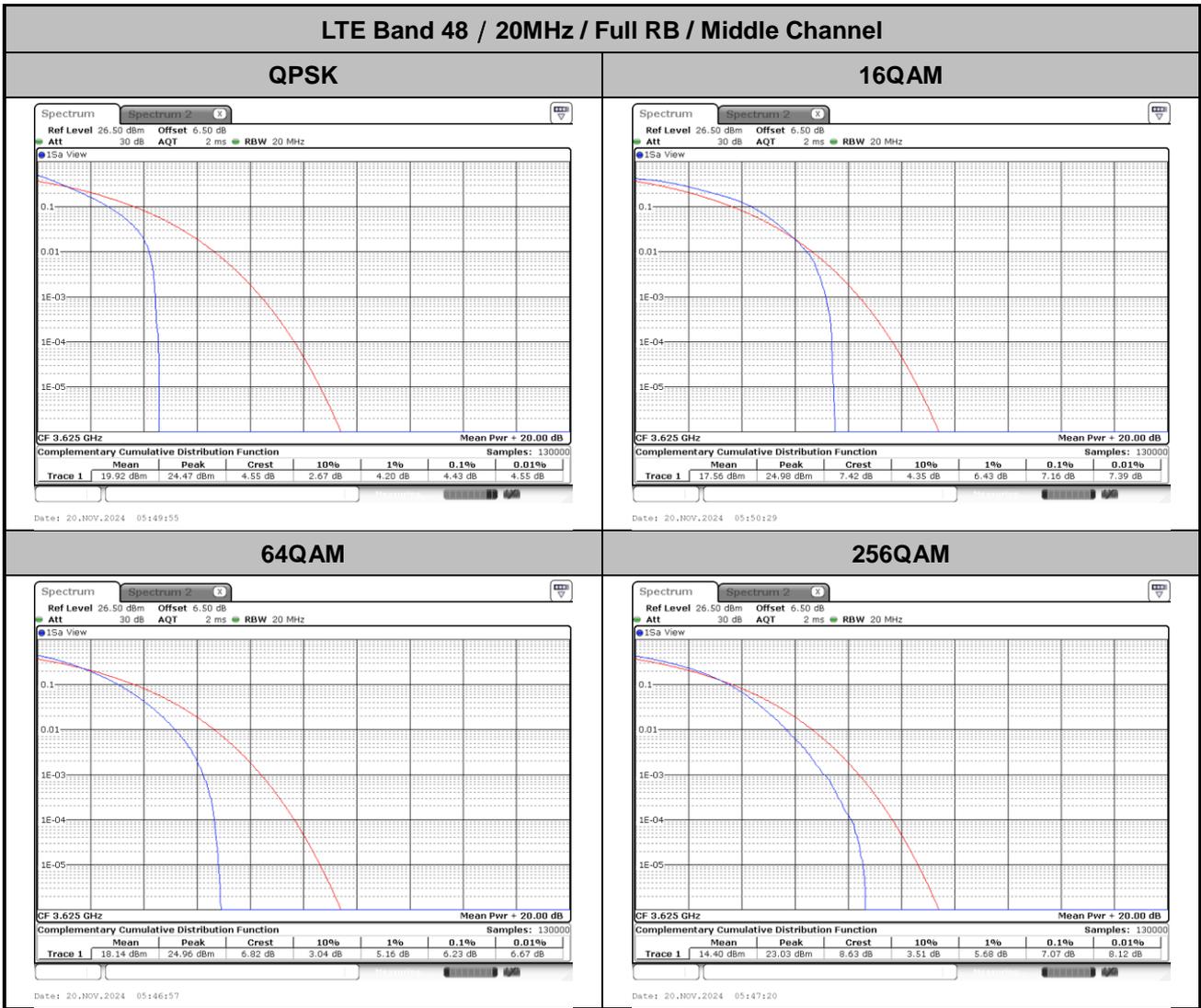
1. Normal Voltage =3.69 V. ; Battery End Point (BEP) =3.3V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 48(Other PA)

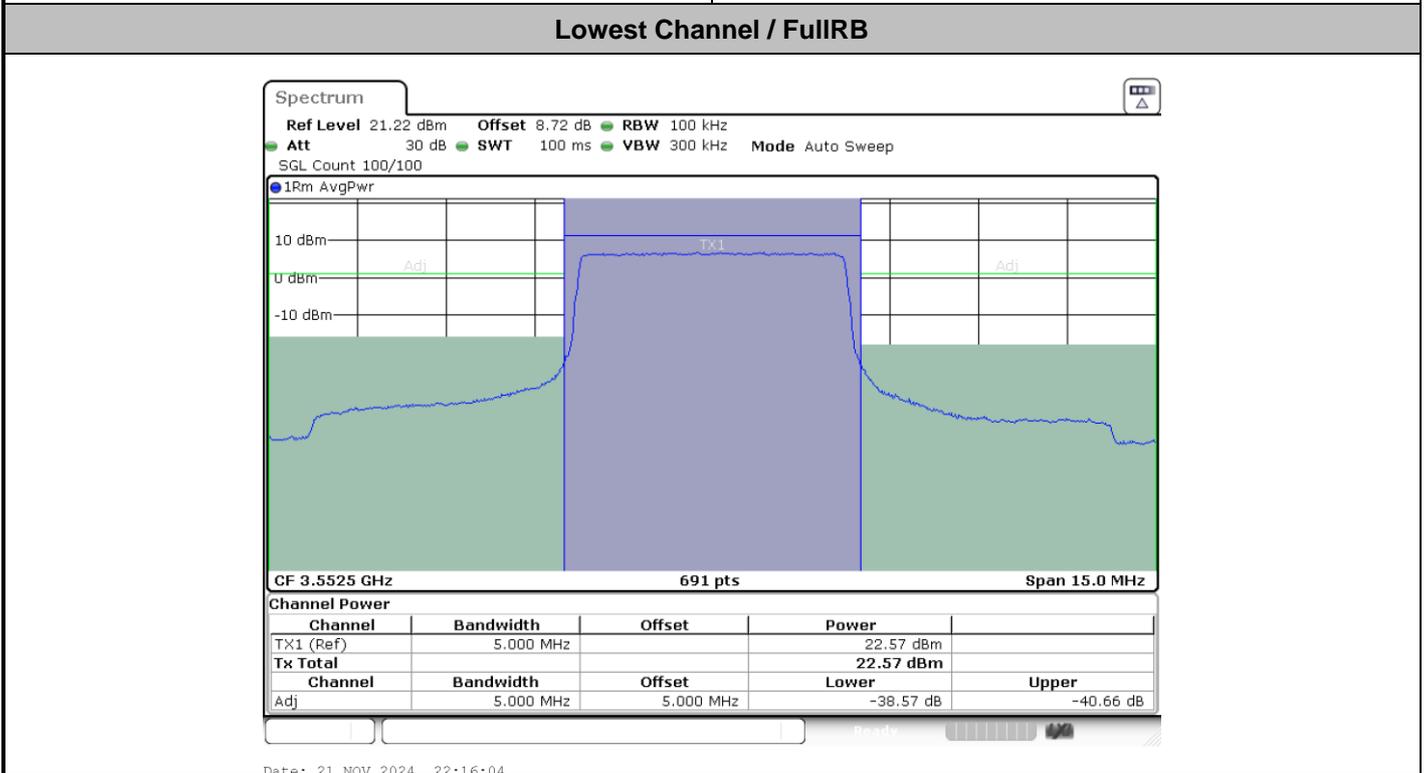
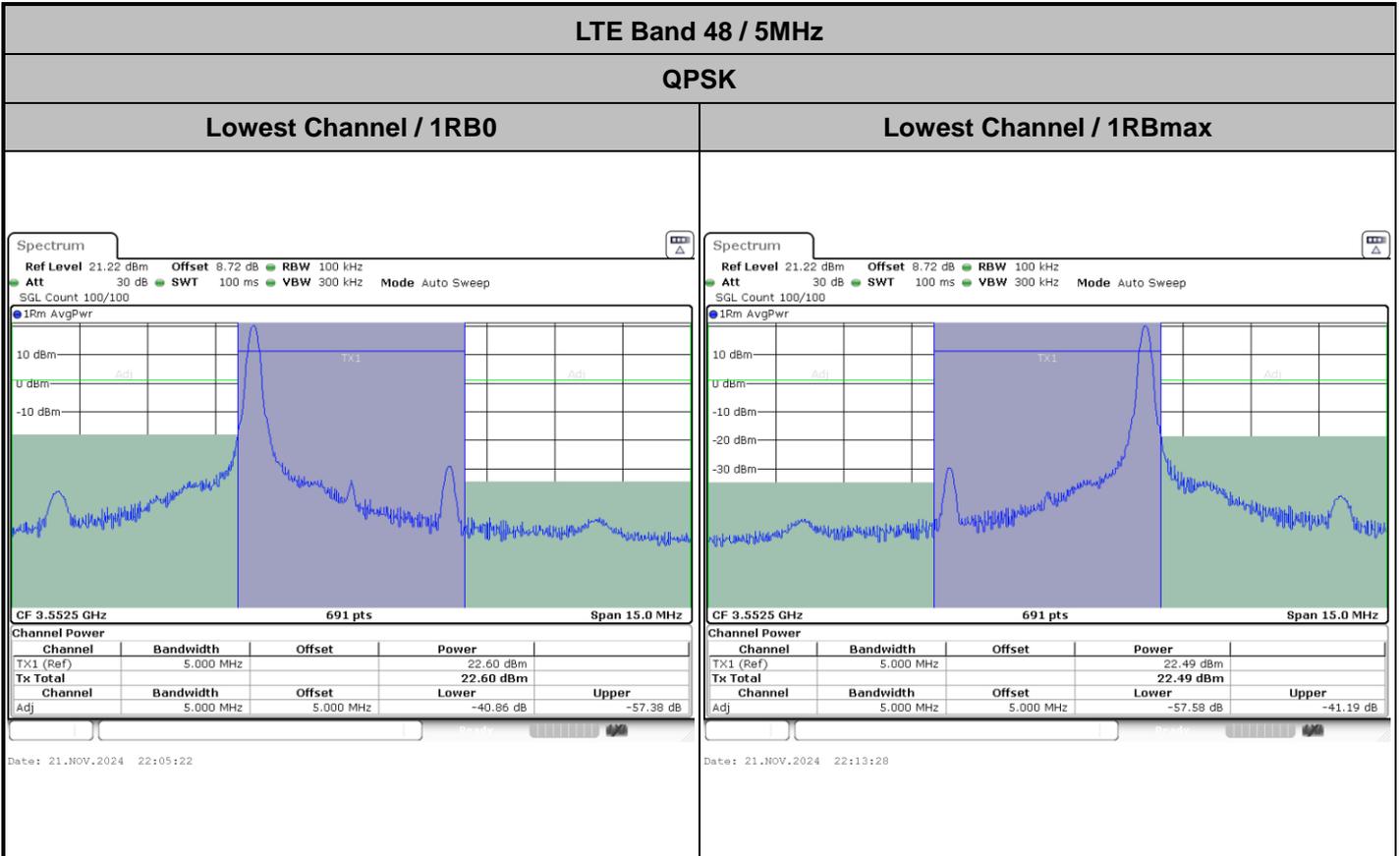
## Peak-to-Average Ratio

Mode	LTE Band 48 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB				Result
Middle CH	4.43	7.16	6.23	7.07	PASS





**ACLR**



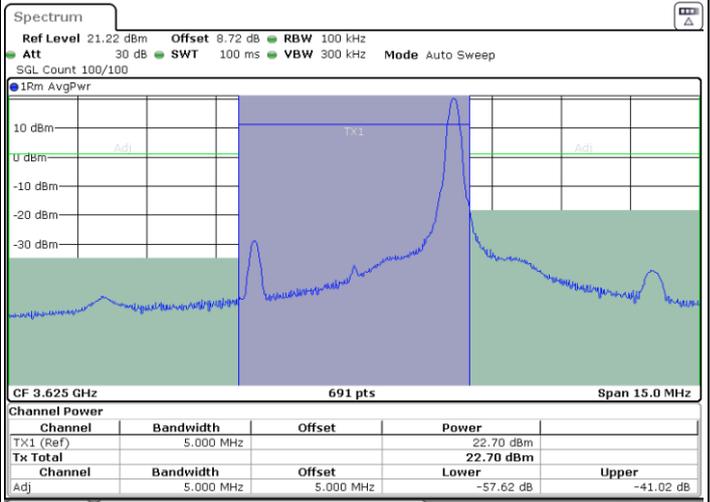
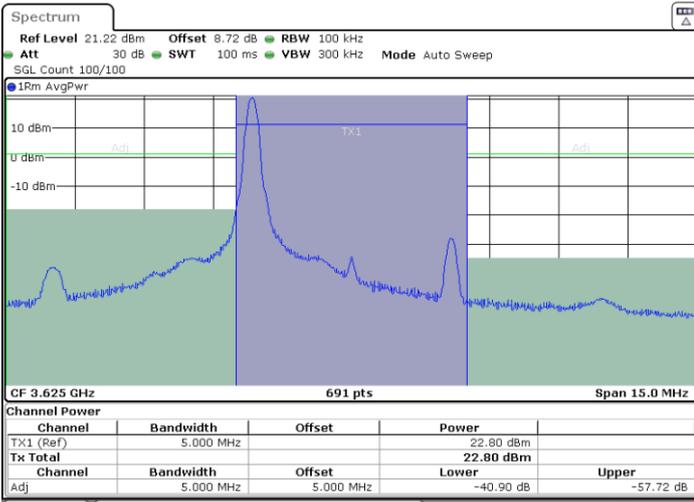


LTE Band 48 / 5MHz

QPSK

Middle Channel / 1RB0

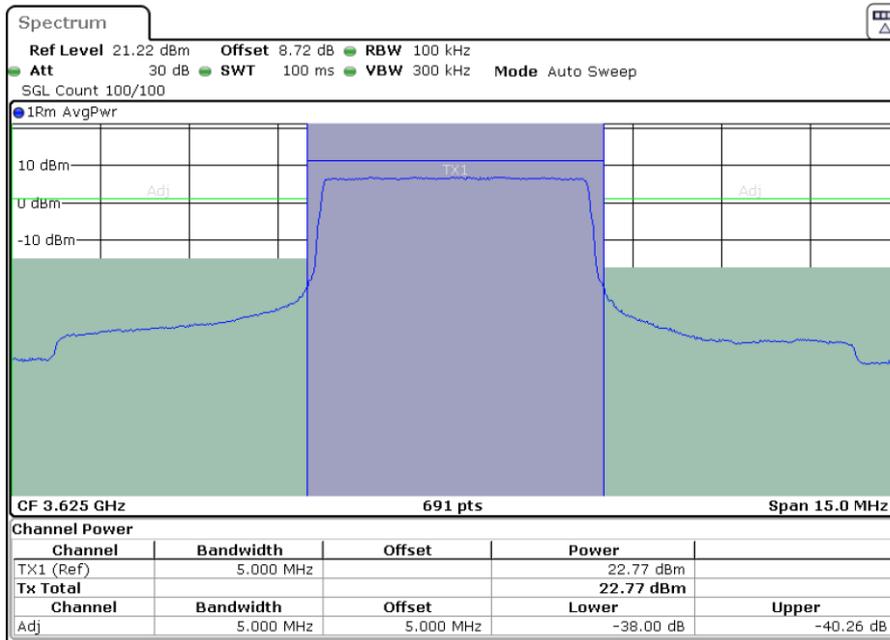
Middle Channel / 1RBmax



Date: 21.NOV.2024 22:18:38

Date: 21.NOV.2024 22:21:10

Middle Channel / FullRB



Date: 21.NOV.2024 22:23:42

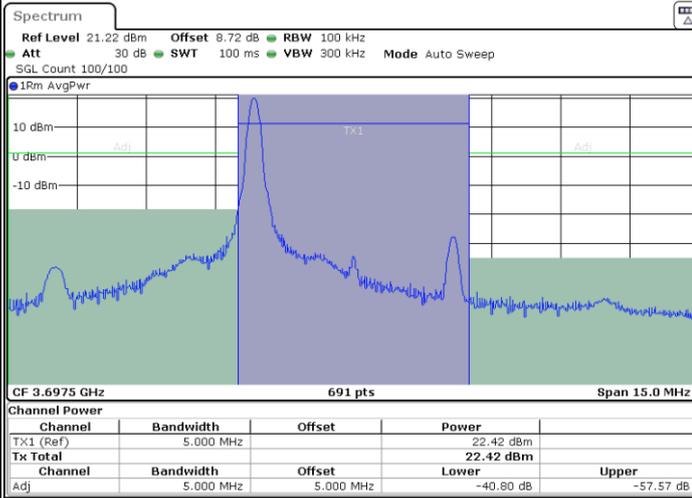


LTE Band 48 / 5MHz

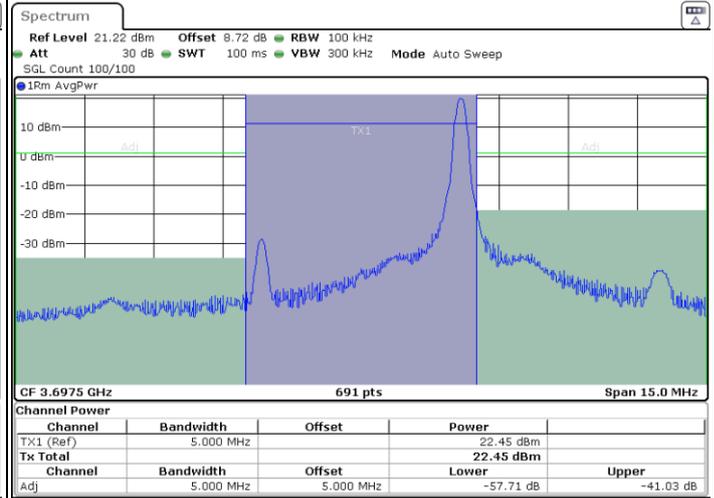
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

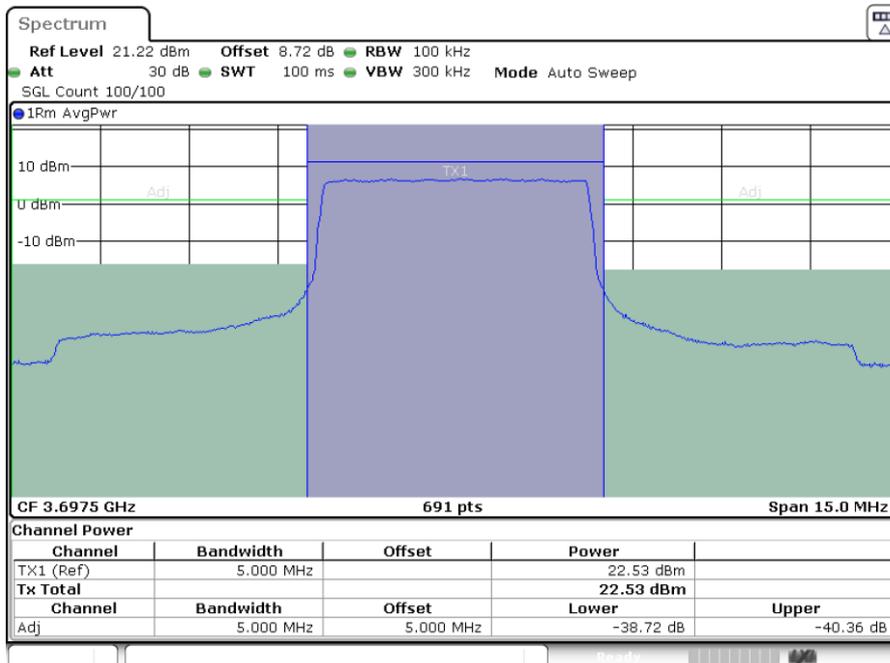


Date: 21.NOV.2024 22:26:14



Date: 21.NOV.2024 22:28:49

Highest Channel / FullRB



Date: 21.NOV.2024 22:31:24

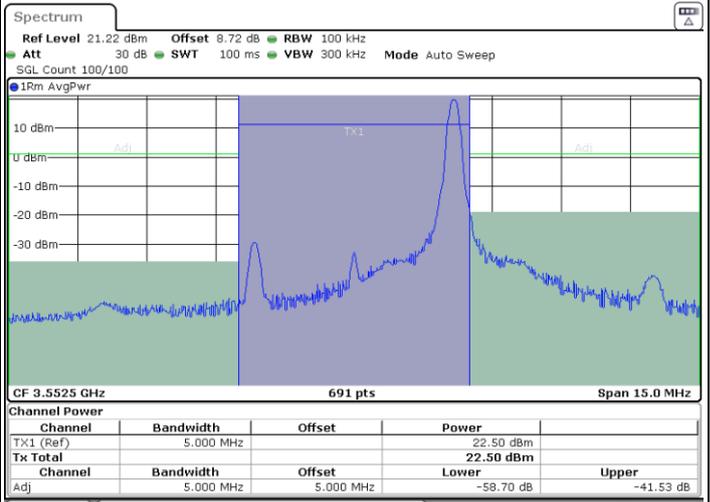
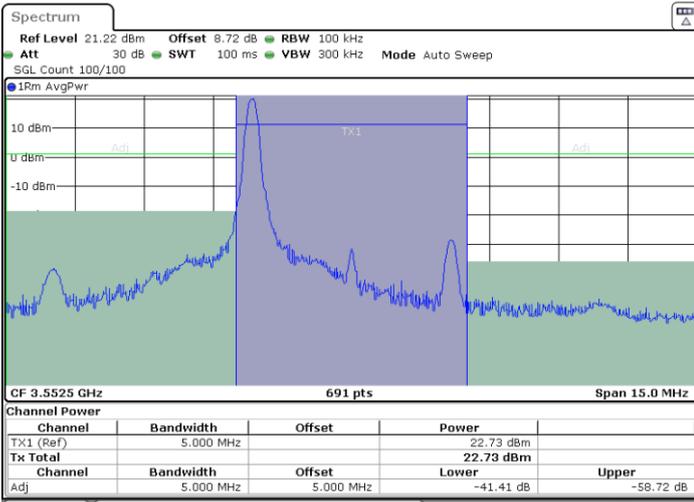


LTE Band 48 / 5MHz

16QAM

Lowest Channel / 1RB0

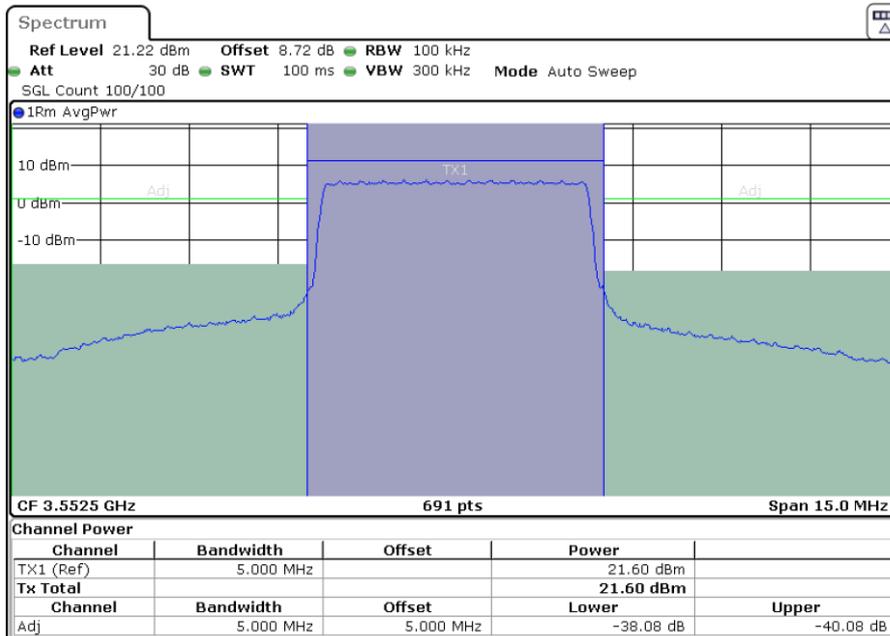
Lowest Channel / 1RBmax



Date: 21.NOV.2024 22:06:01

Date: 21.NOV.2024 22:14:07

Lowest Channel / FullIRB



Date: 21.NOV.2024 22:16:43

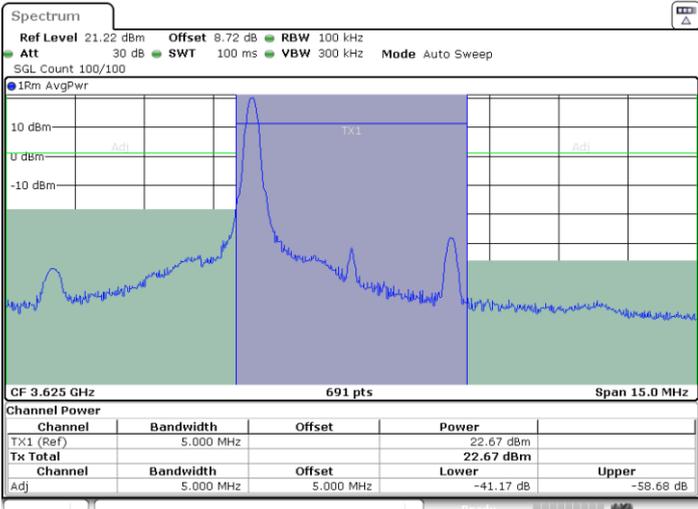


LTE Band 48 / 5MHz

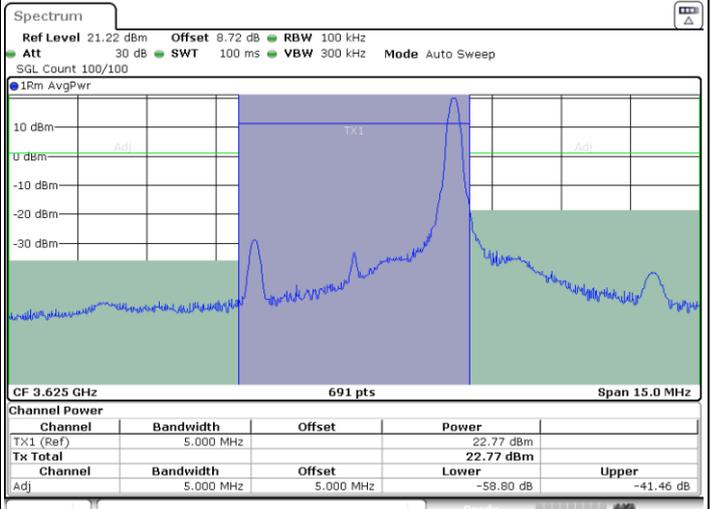
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

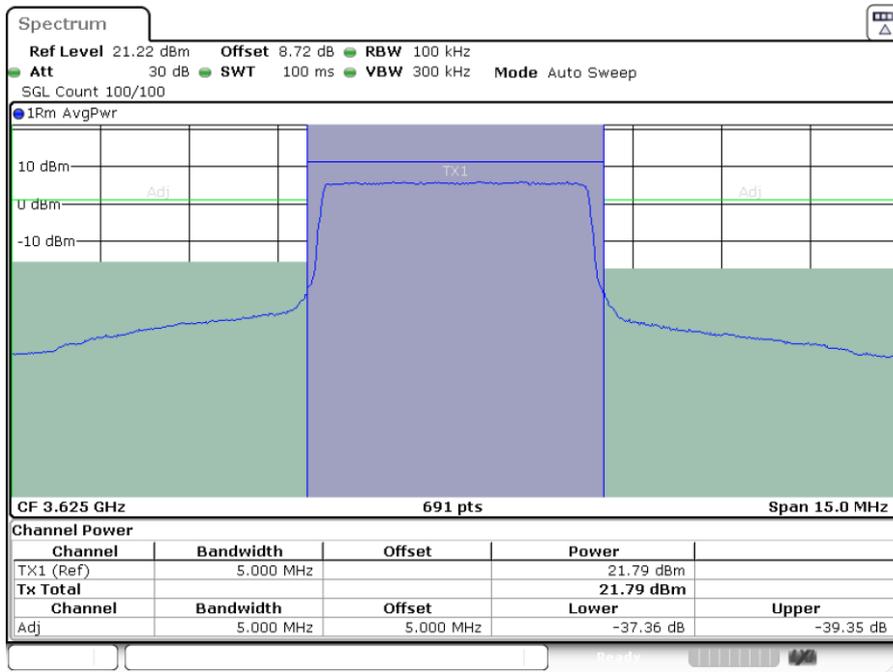


Date: 21.NOV.2024 22:19:16



Date: 21.NOV.2024 22:21:48

Middle Channel / FullRB



Date: 21.NOV.2024 22:24:20

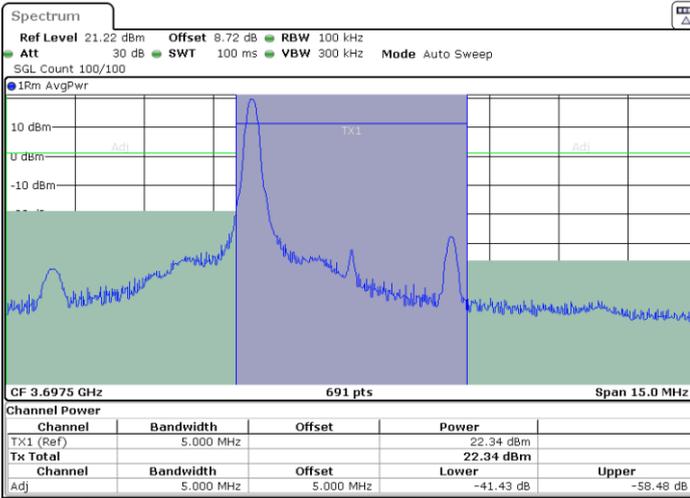


LTE Band 48 / 5MHz

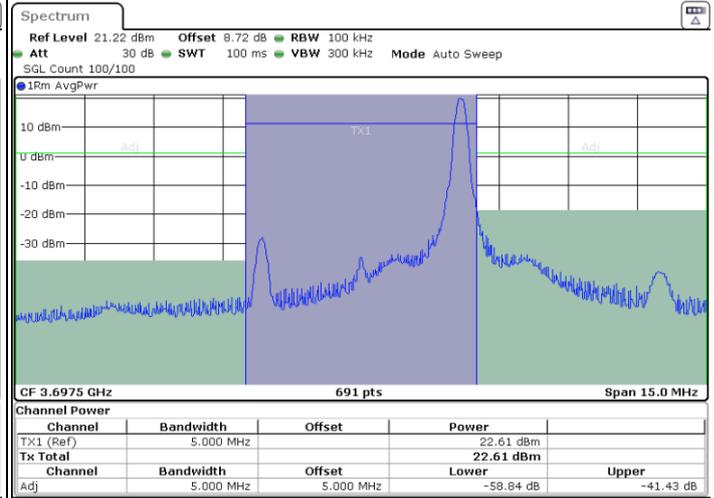
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

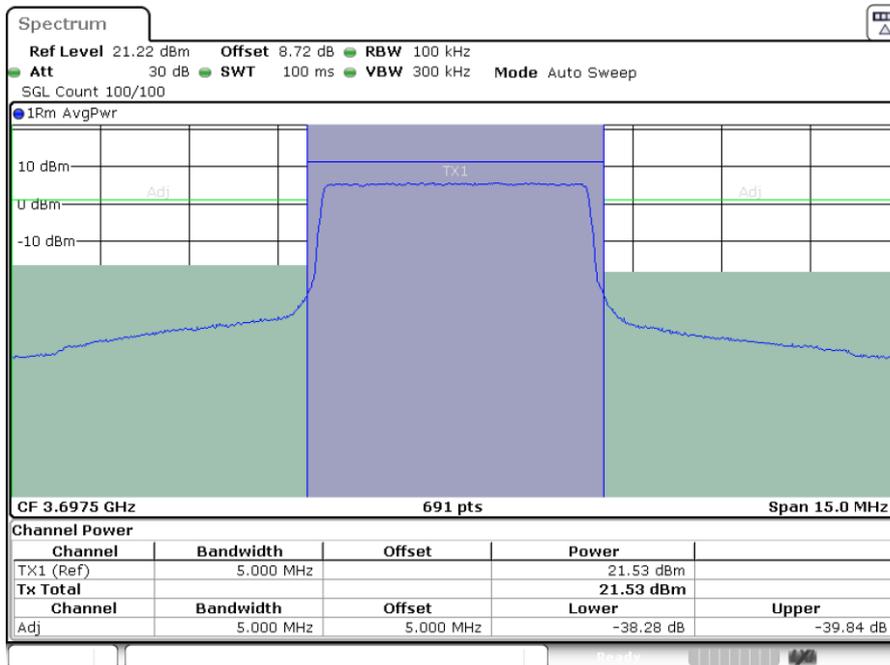


Date: 21.NOV.2024 22:26:53



Date: 21.NOV.2024 22:29:27

Highest Channel / FullRB



Date: 21.NOV.2024 22:32:02

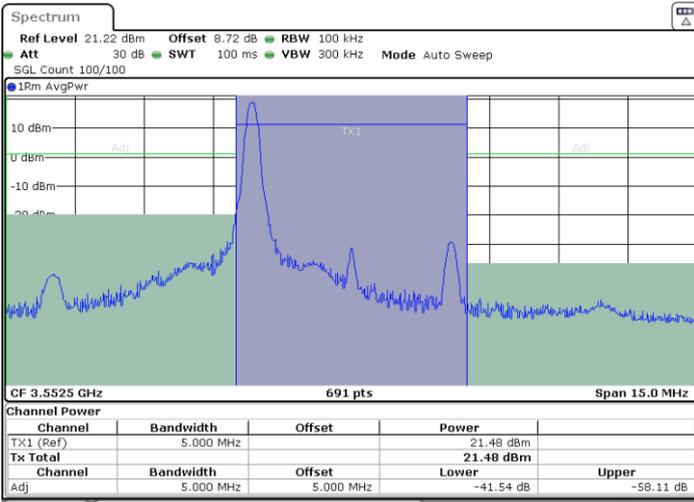


LTE Band 48 / 5MHz

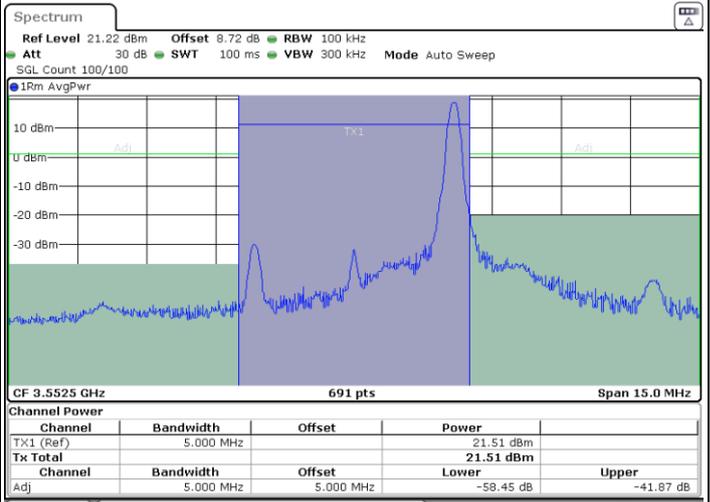
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

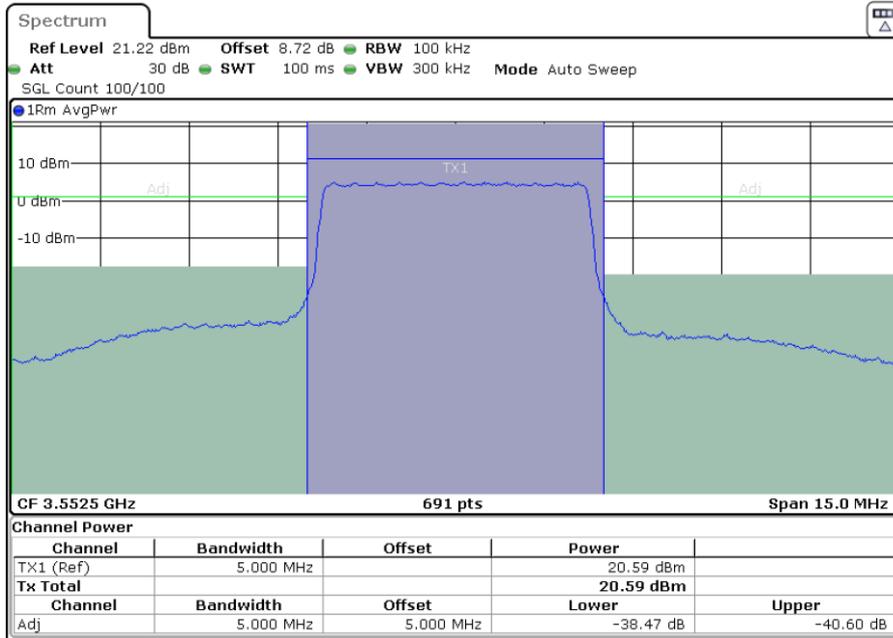


Date: 21.NOV.2024 22:06:40



Date: 21.NOV.2024 22:14:46

Lowest Channel / FullRB



Date: 21.NOV.2024 22:17:21

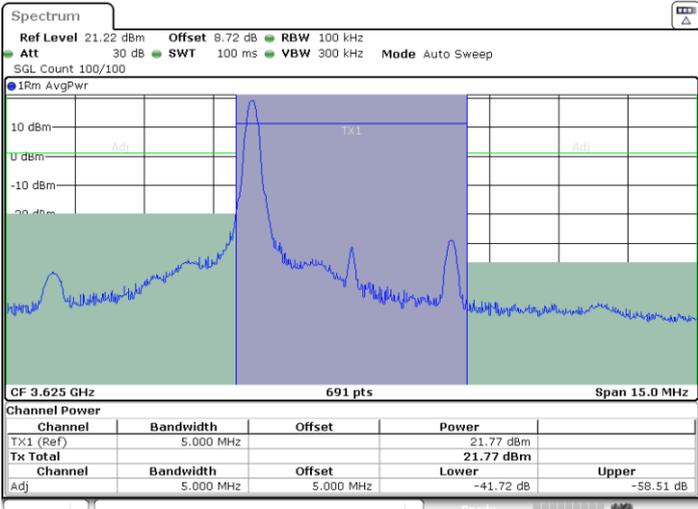


LTE Band 48 / 5MHz

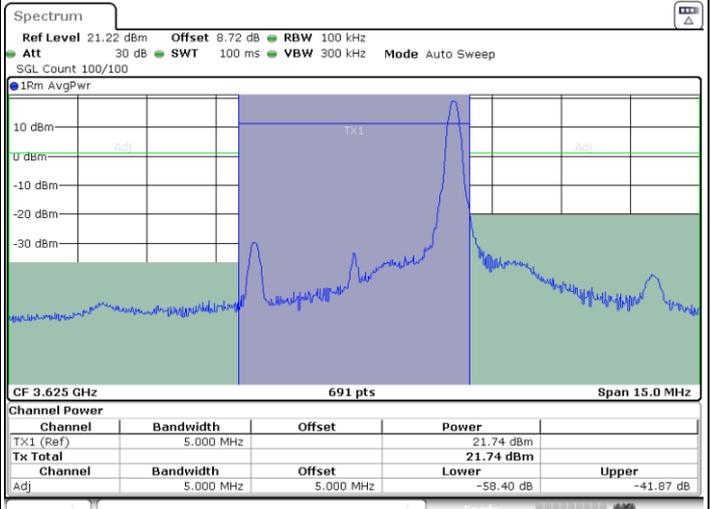
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

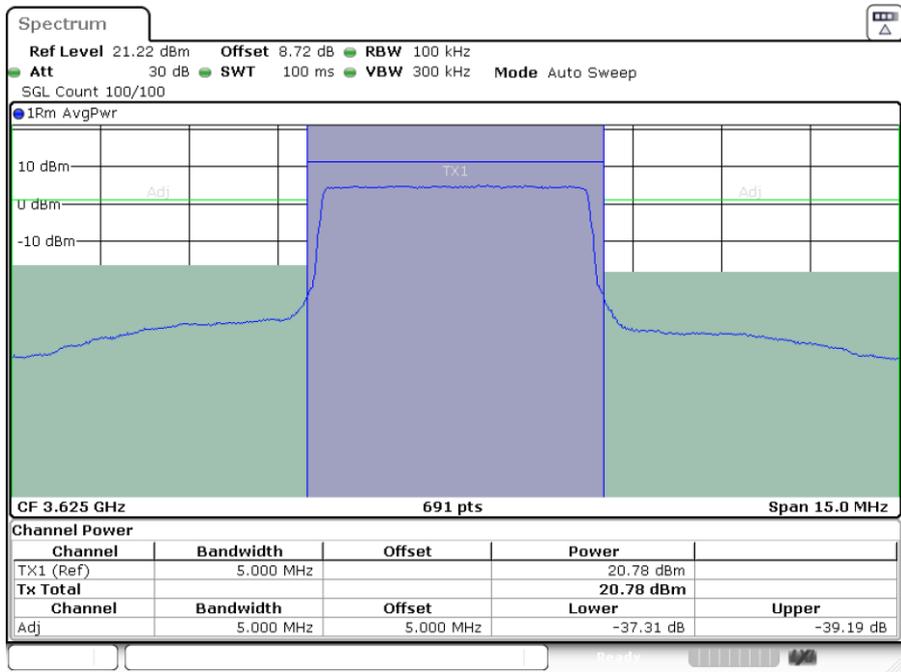


Date: 21.NOV.2024 22:19:54



Date: 21.NOV.2024 22:22:27

Middle Channel / FullRB



Date: 21.NOV.2024 22:24:58

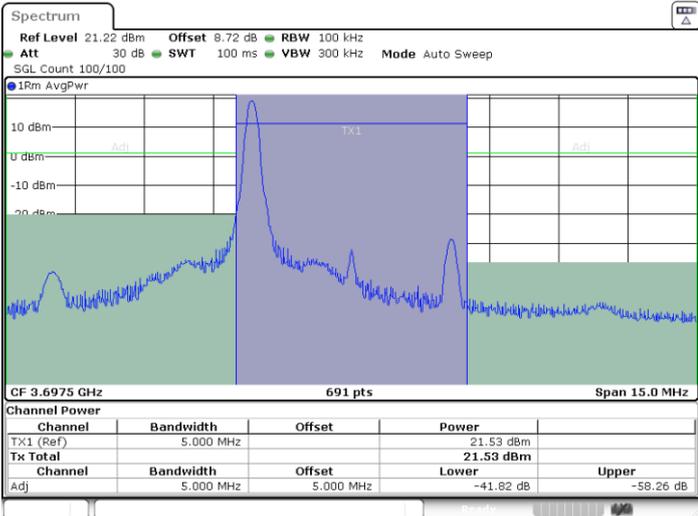


LTE Band 48 / 5MHz

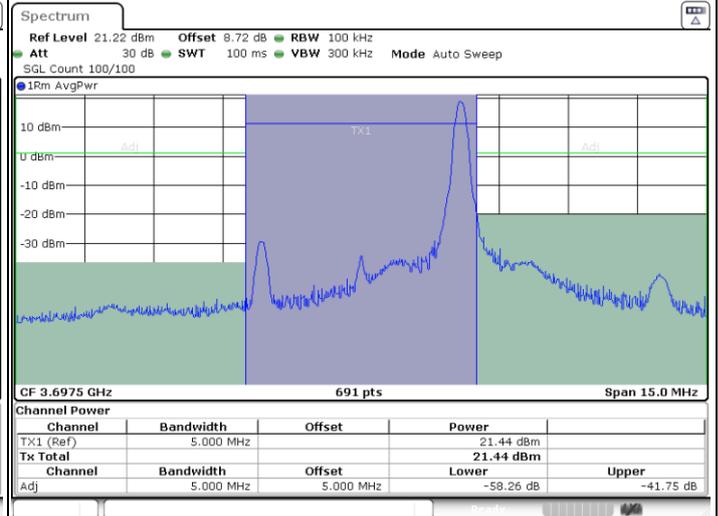
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

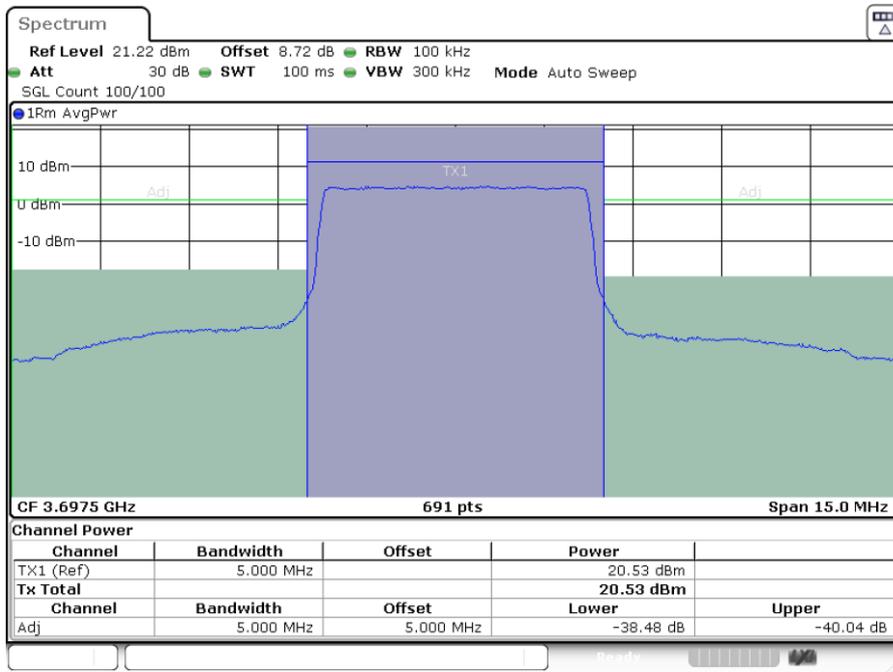


Date: 21.NOV.2024 22:27:31



Date: 21.NOV.2024 22:30:06

Highest Channel / FullRB



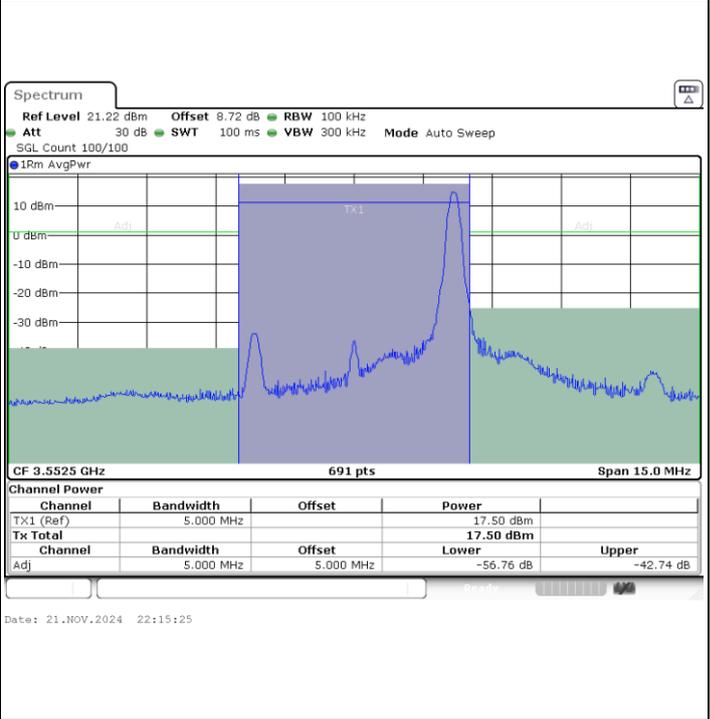
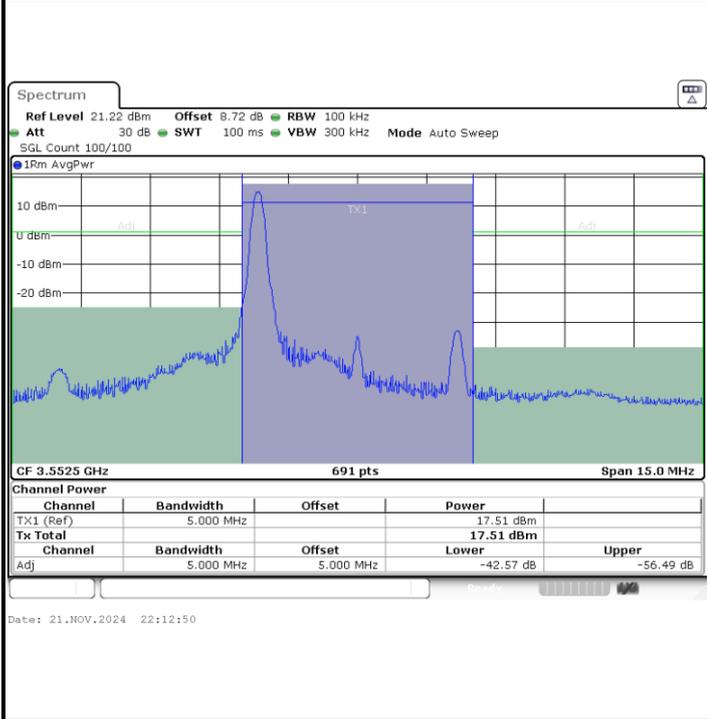
Date: 21.NOV.2024 22:32:41



**LTE Band 48 / 5MHz**

**256QAM**

**Lowest Channel / 1RB0      Lowest Channel / 1RBmax**



**Lowest Channel / FullIRB**

