

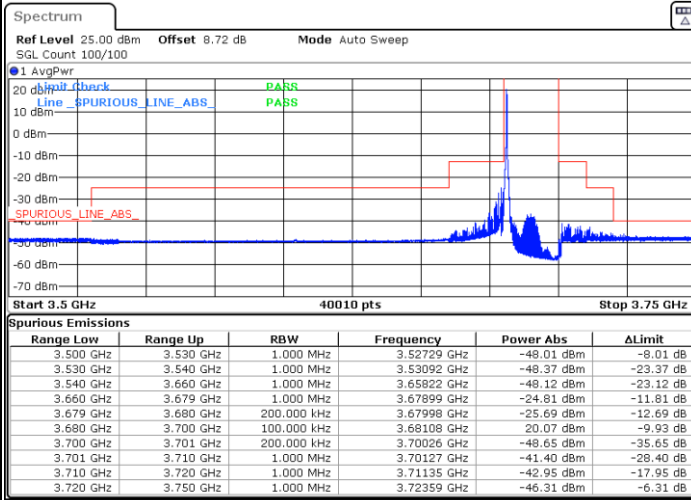


LTE Band 48 / 20MHz

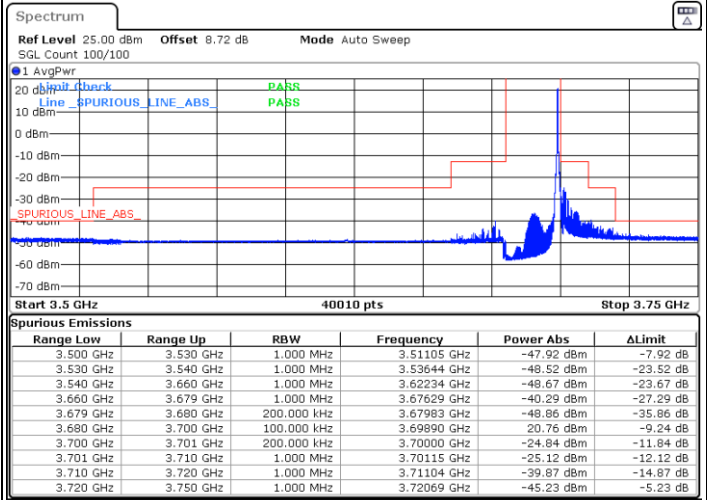
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



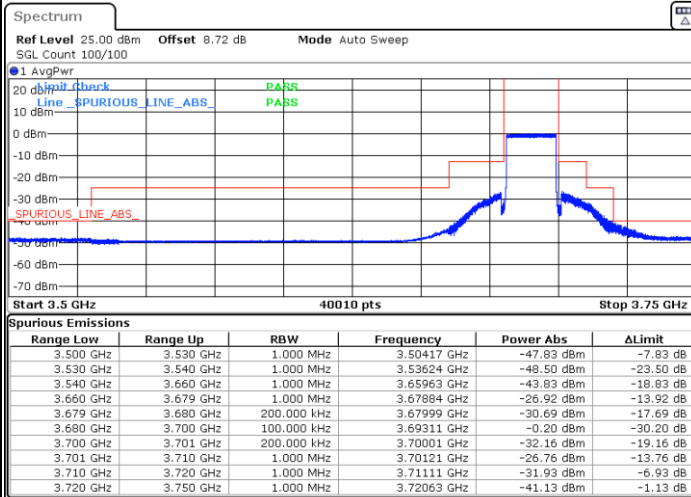
Date: 16.NOV.2024 02:38:15



Date: 16.NOV.2024 02:44:11

Highest Channel / FullIRB

N/A



Date: 16.NOV.2024 02:50:10

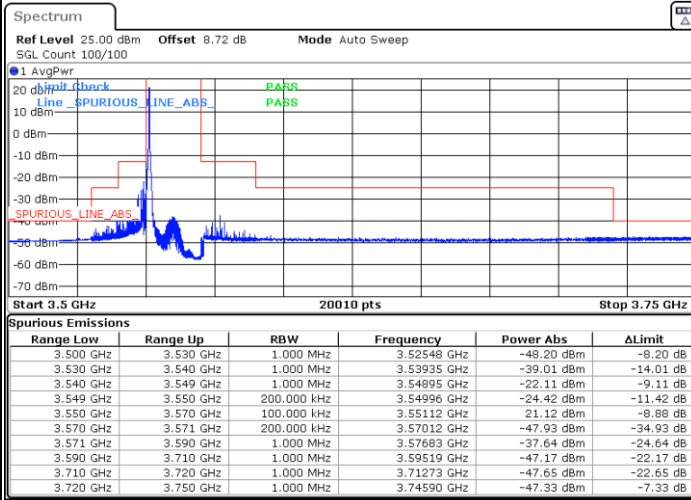


LTE Band 48 / 20MHz

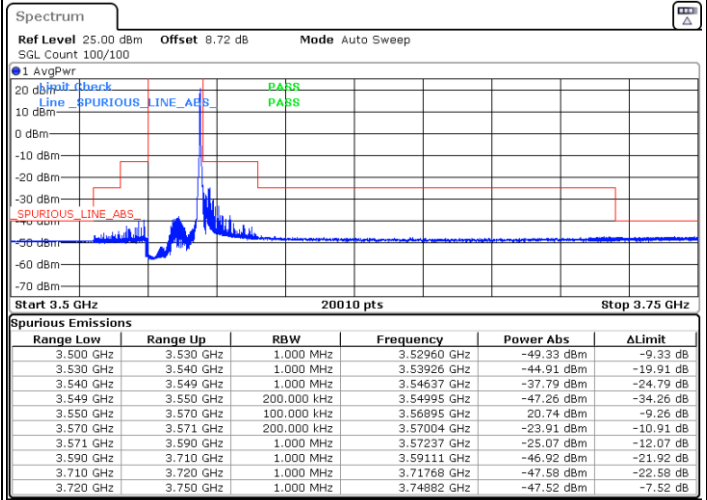
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



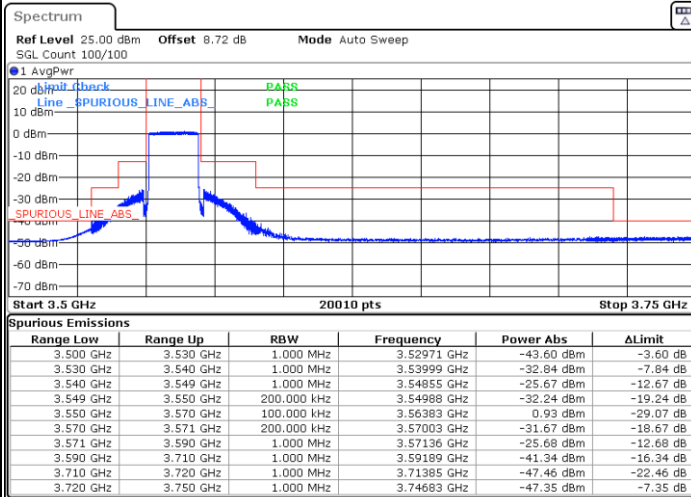
Date: 16.NOV.2024 02:02:05



Date: 16.NOV.2024 02:08:10

Lowest Channel / FullIRB

N/A



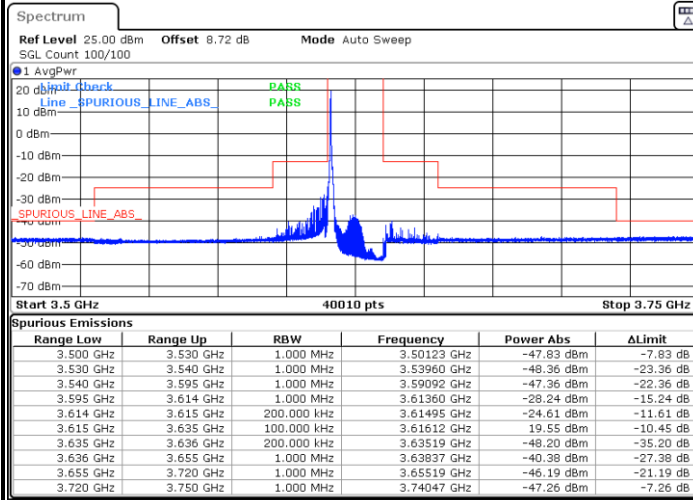
Date: 16.NOV.2024 02:14:16



LTE Band 48 / 20MHz

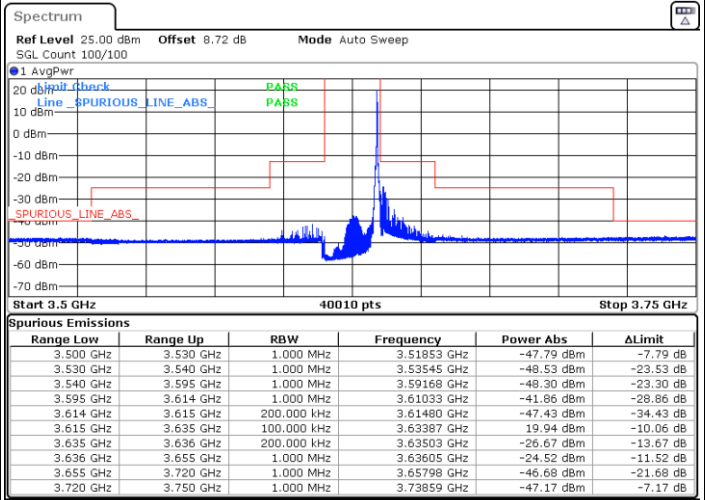
16QAM

Middle Channel / 1RB0



Date: 16.NOV.2024 02:22:06

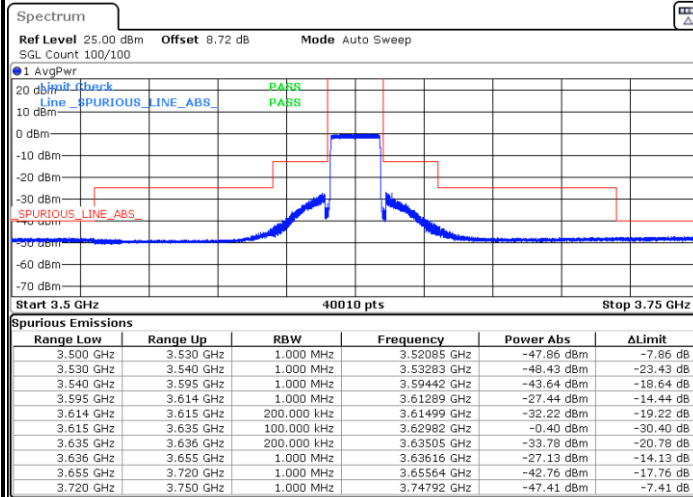
Middle Channel / 1RBmax



Date: 16.NOV.2024 02:27:58

Middle Channel / Full

N/A



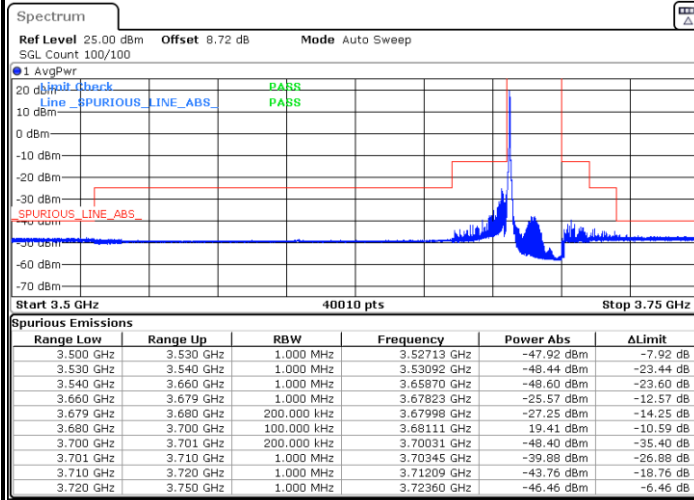
Date: 16.NOV.2024 02:33:50



LTE Band 48 / 20MHz

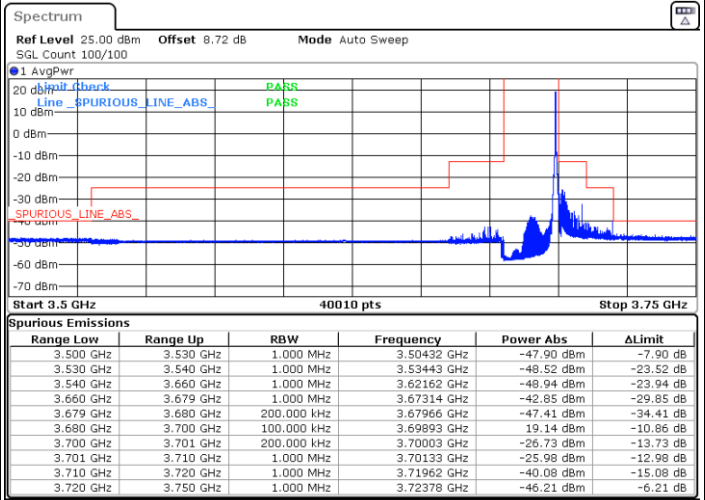
16QAM

Highest Channel / 1RB0



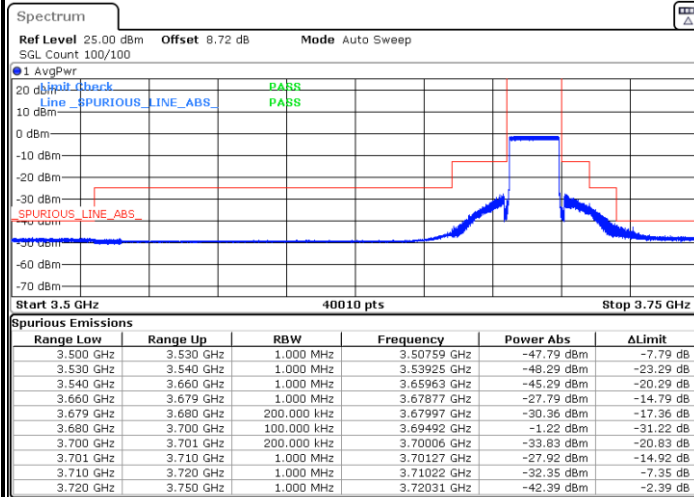
Date: 16.NOV.2024 02:39:43

Highest Channel / 1RBmax



Date: 16.NOV.2024 02:45:40

Highest Channel / FullIRB



Date: 16.NOV.2024 02:51:39

N/A

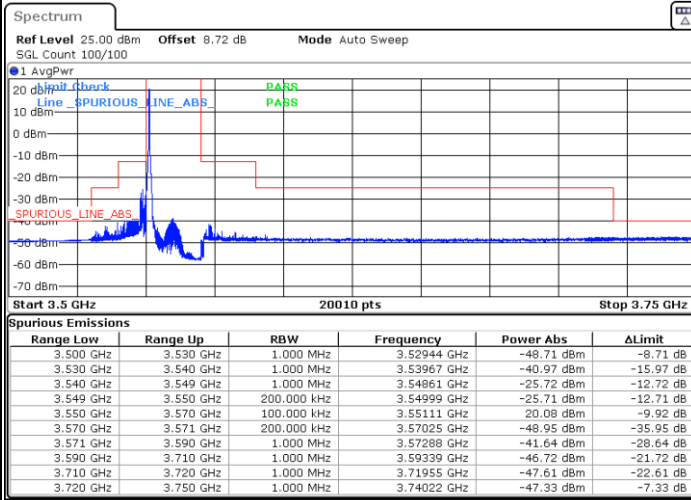


LTE Band 48 / 20MHz

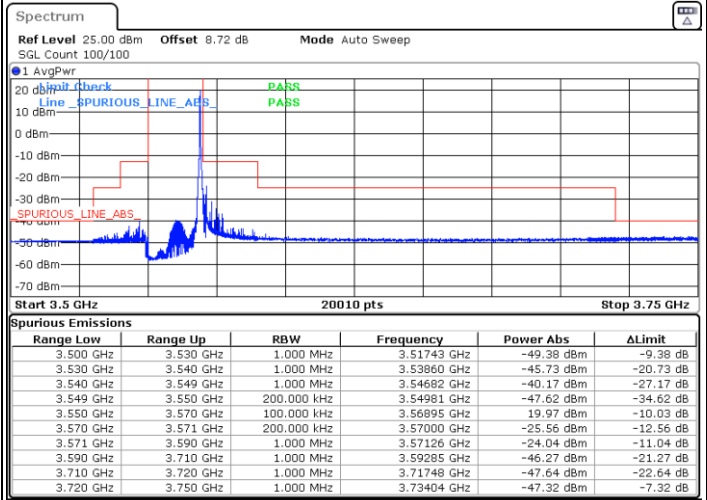
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



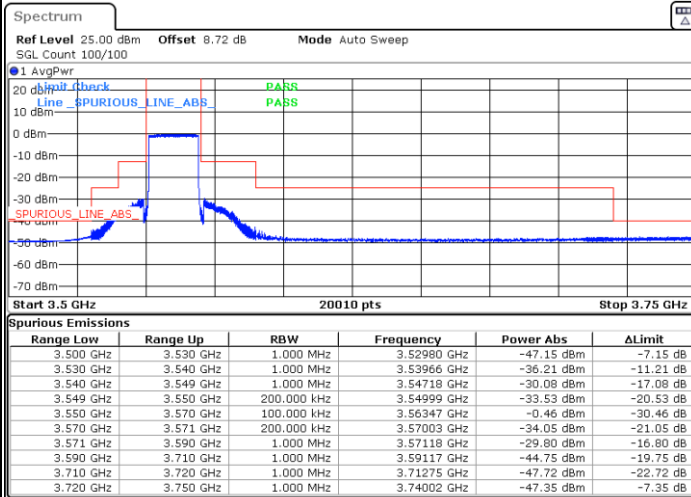
Date: 16.NOV.2024 02:03:36



Date: 16.NOV.2024 02:09:42

Lowest Channel / FullRB

N/A



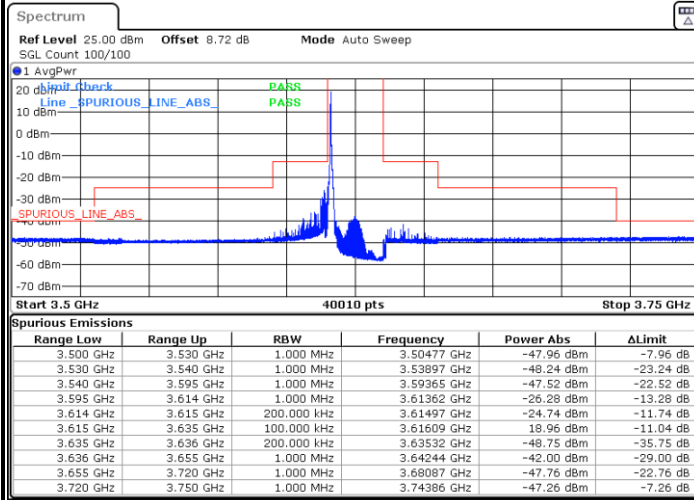
Date: 16.NOV.2024 02:15:48



LTE Band 48 / 20MHz

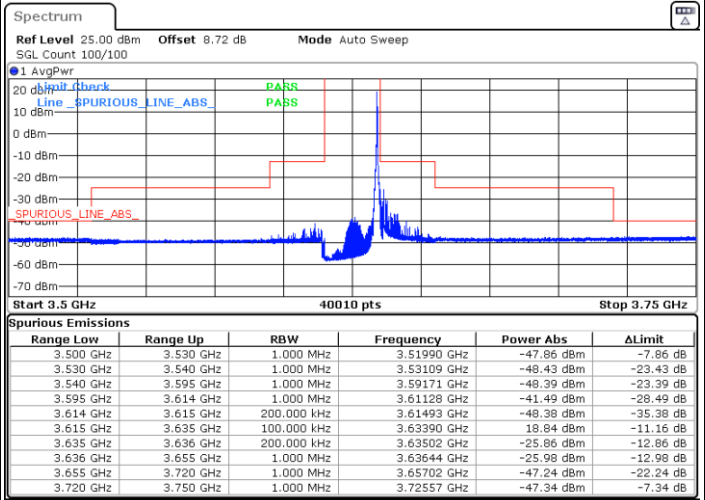
64QAM

Middle Channel / 1RB0



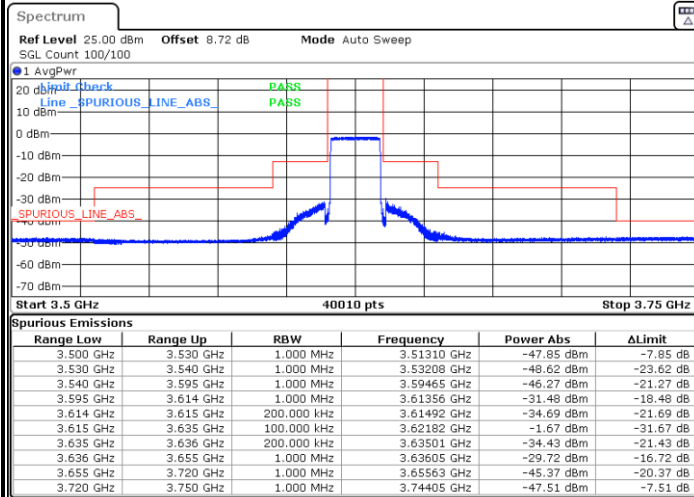
Date: 16.NOV.2024 02:23:33

Middle Channel / 1RBmax



Date: 16.NOV.2024 02:29:26

Middle Channel / Full



Date: 16.NOV.2024 02:35:17

N/A

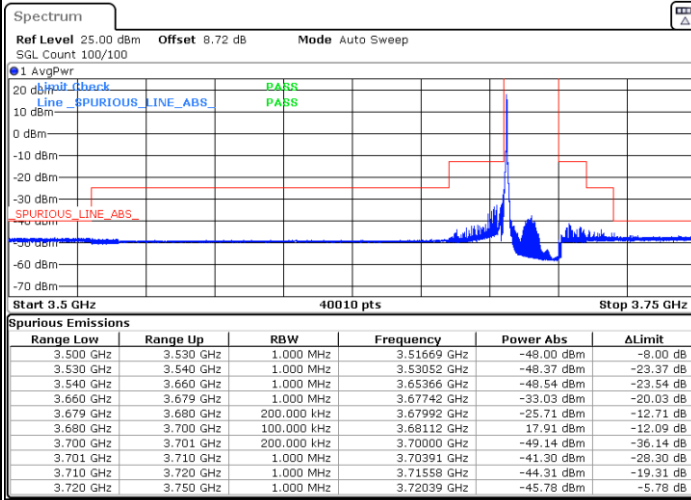


LTE Band 48 / 20MHz

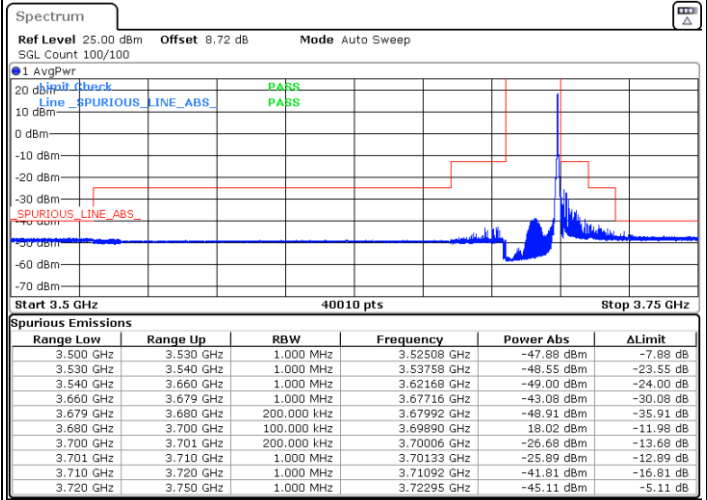
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



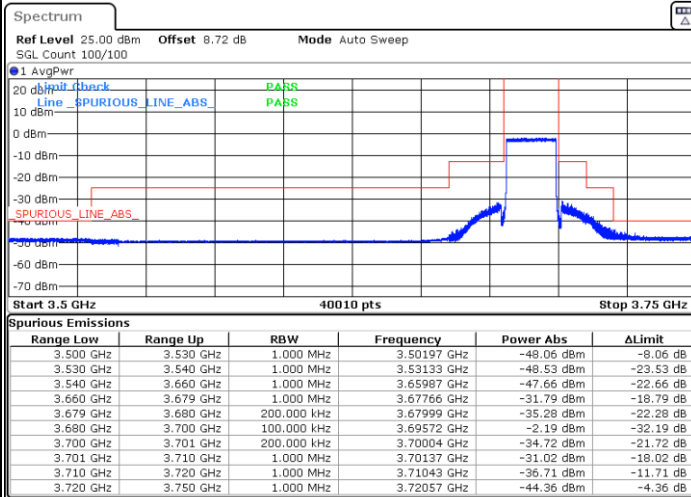
Date: 16.NOV.2024 02:41:12



Date: 16.NOV.2024 02:47:09

Highest Channel / FullIRB

N/A



Date: 16.NOV.2024 02:53:08

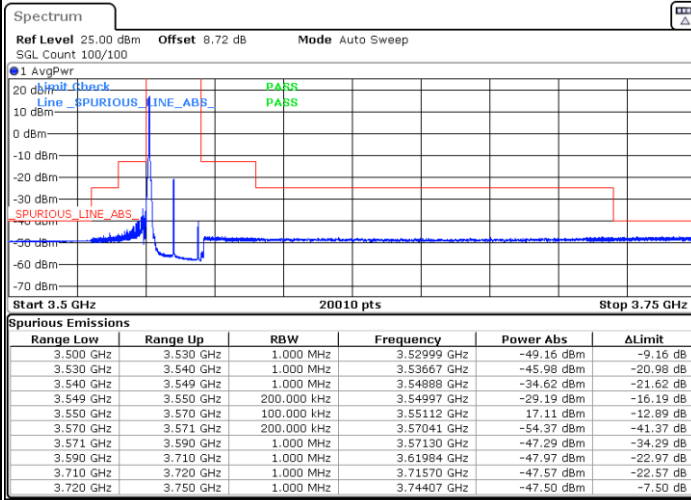


LTE Band 48 / 20MHz

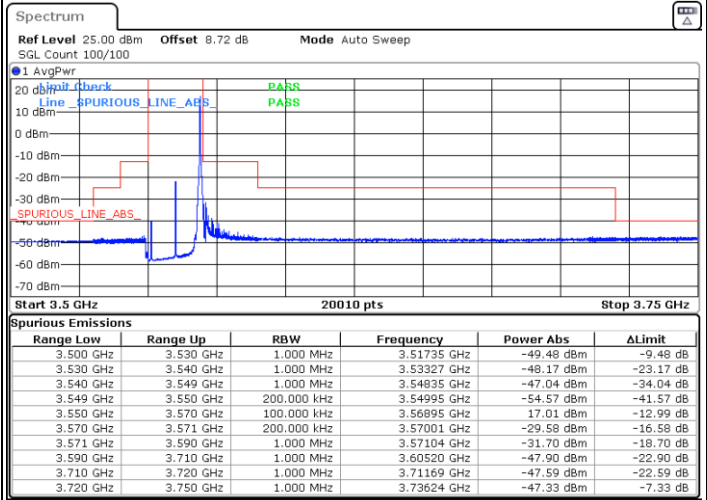
256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



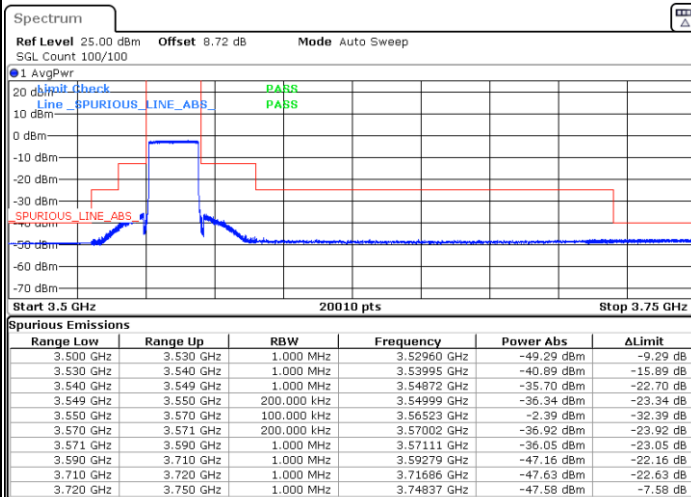
Date: 16.NOV.2024 02:05:08



Date: 16.NOV.2024 02:11:13

Lowest Channel / FullIRB

N/A



Date: 16.NOV.2024 02:17:19

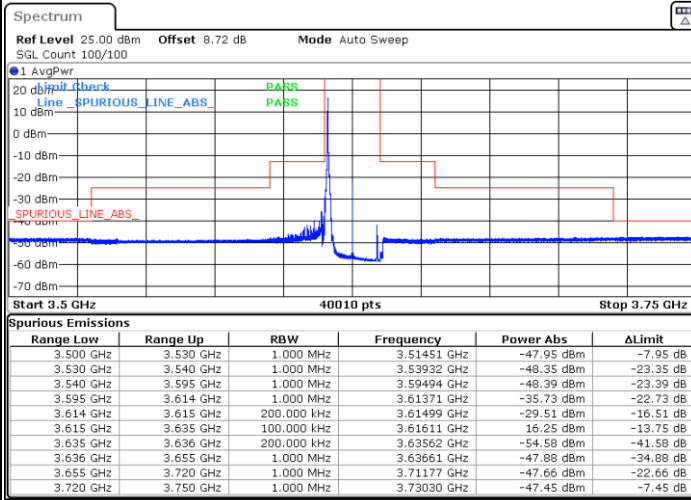


LTE Band 48 / 20MHz

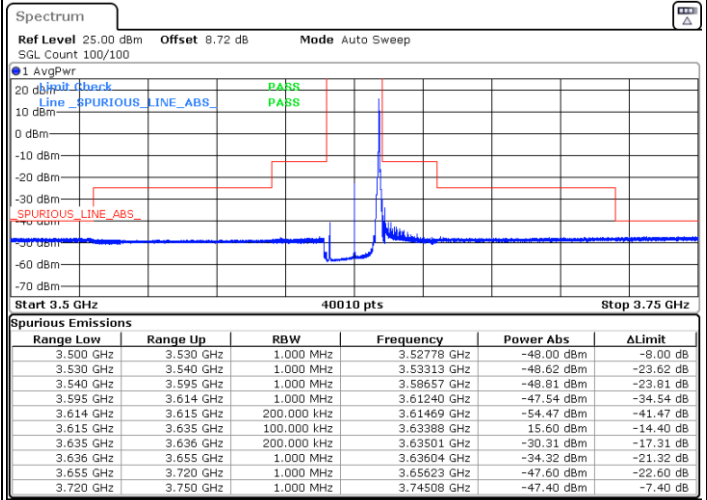
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



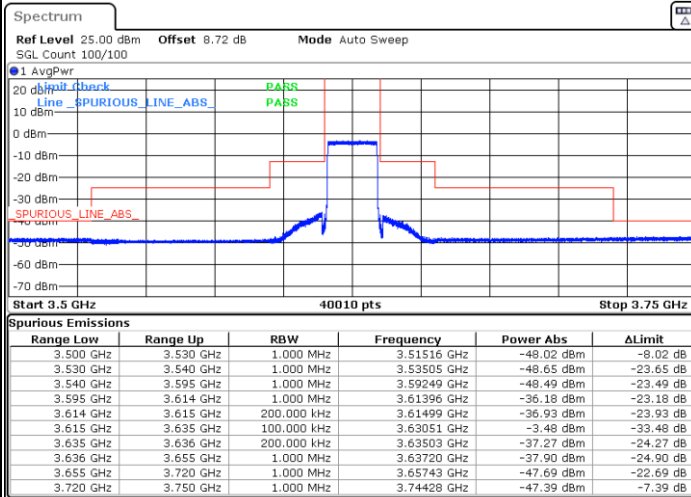
Date: 16.NOV.2024 02:25:02



Date: 16.NOV.2024 02:30:54

Middle Channel / Full

N/A



Date: 16.NOV.2024 02:36:46

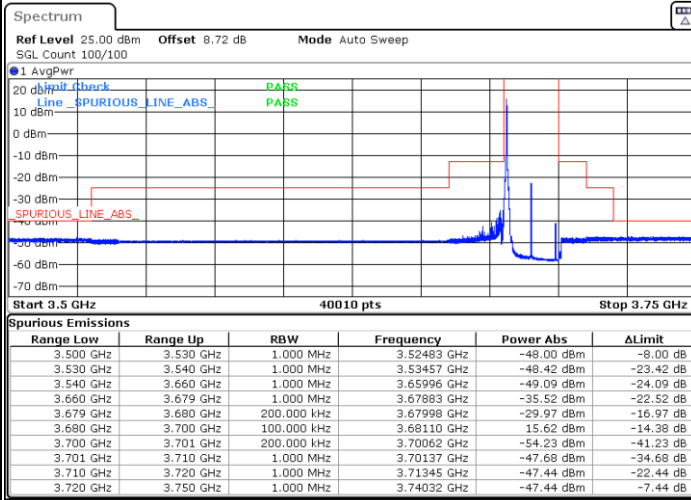


LTE Band 48 / 20MHz

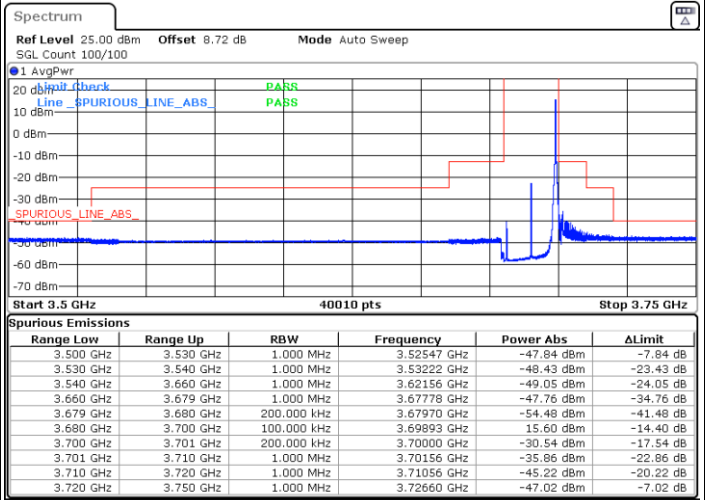
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



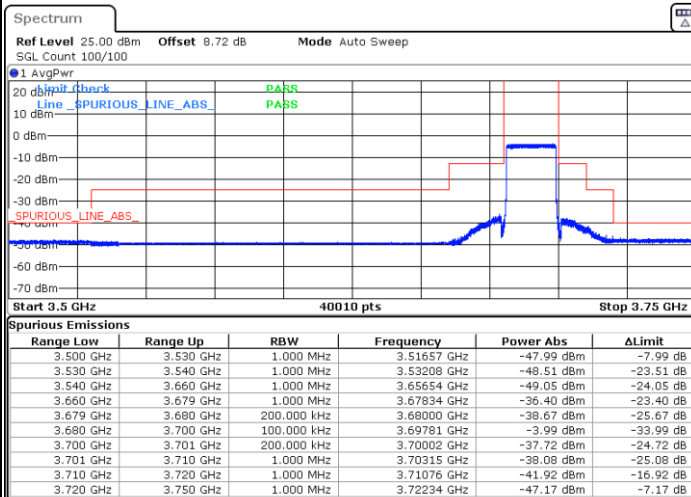
Date: 16.NOV.2024 02:42:42



Date: 16.NOV.2024 02:48:38

Highest Channel / FullIRB

N/A



Date: 16.NOV.2024 02:54:37



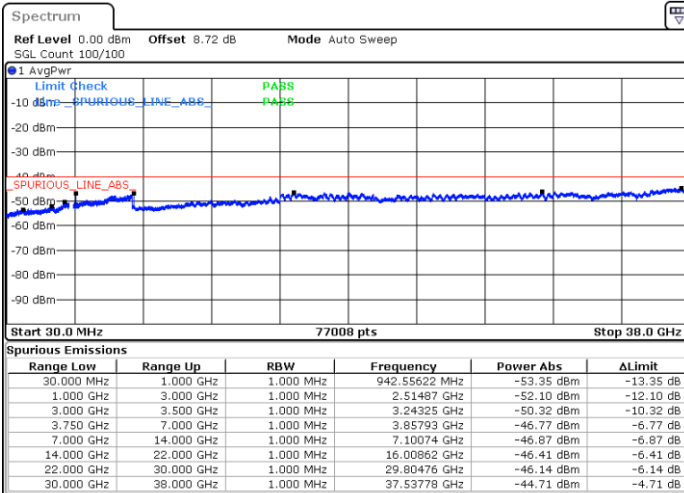
Conducted Spurious Emission

LTE Band 48 / 5MHz

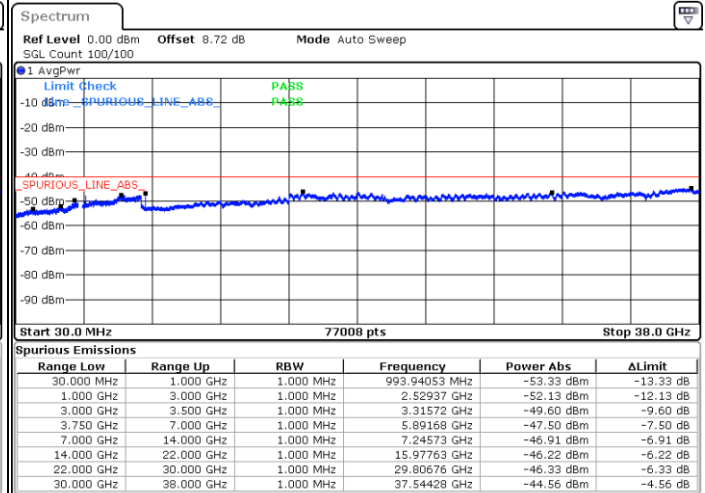
QPSK / 1RB0

Lowest Channel

Middle Channel

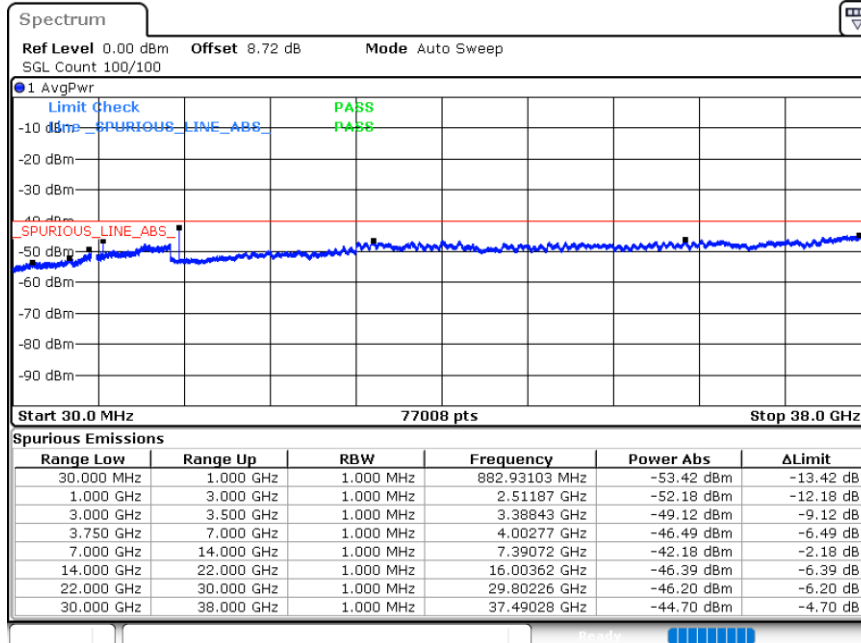


Date: 15.NOV.2024 07:04:57



Date: 15.NOV.2024 07:06:24

Highest Channel



Date: 15.NOV.2024 07:07:50



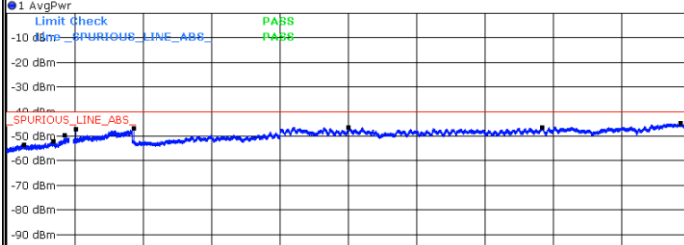
LTE Band 48 / 10MHz

QPSK / 1RB0

Lowest Channel

Middle Channel

Spectrum

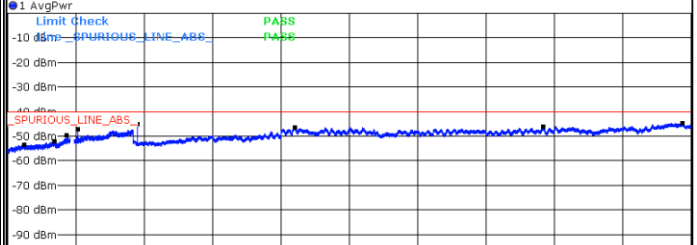
Ref Level 0.00 dBm Offset 8.72 dB Mode Auto Sweep
SGL Count 100/100

Start 30.0 MHz 77008 pts Stop 38.0 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	978.42829 MHz	-53.44 dBm	-13.44 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63084 GHz	-52.13 dBm	-12.13 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.24375 GHz	-49.73 dBm	-9.73 dB
3.750 GHz	7.000 GHz	1.000 MHz	3.85793 GHz	-47.26 dBm	-7.26 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.10124 GHz	-46.98 dBm	-6.98 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.02044 GHz	-46.36 dBm	-6.36 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.80026 GHz	-46.41 dBm	-6.41 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.48328 GHz	-44.73 dBm	-4.73 dB

Spectrum

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

Start 30.0 MHz 77008 pts Stop 38.0 GHz

Spurious Emissions

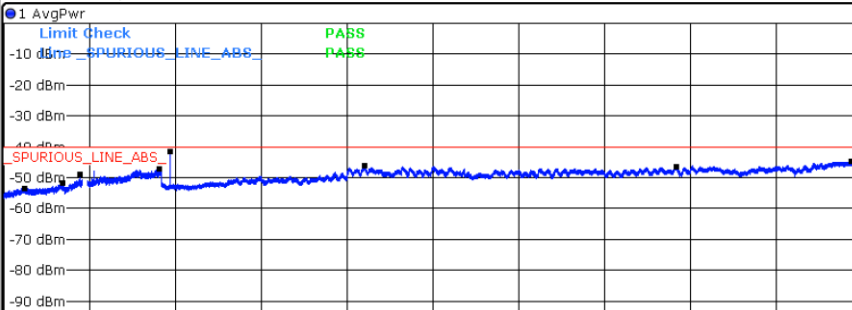
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	930.92204 MHz	-53.40 dBm	-13.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63734 GHz	-51.99 dBm	-11.99 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.31347 GHz	-49.64 dBm	-9.64 dB
3.750 GHz	7.000 GHz	1.000 MHz	3.92803 GHz	-47.17 dBm	-7.17 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.24123 GHz	-45.13 dBm	-5.13 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.99413 GHz	-46.37 dBm	-6.37 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.78176 GHz	-46.20 dBm	-6.20 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.51928 GHz	-44.69 dBm	-4.69 dB

Date: 15.NOV.2024 07:18:39

Date: 15.NOV.2024 07:20:05

Highest Channel

Spectrum

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

Start 30.0 MHz 77008 pts Stop 38.0 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	962.91604 MHz	-53.50 dBm	-13.50 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.60935 GHz	-51.92 dBm	-11.92 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.38343 GHz	-48.92 dBm	-8.92 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.91528 GHz	-47.32 dBm	-7.32 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.38122 GHz	-41.48 dBm	-1.48 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.98113 GHz	-46.24 dBm	-6.24 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.78076 GHz	-46.32 dBm	-6.32 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.50028 GHz	-44.81 dBm	-4.81 dB

Date: 15.NOV.2024 07:21:31



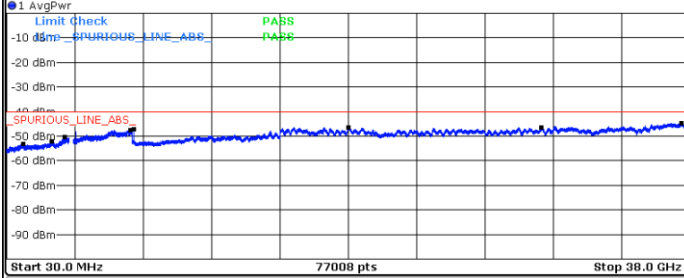
LTE Band 48 / 15MHz

QPSK / 1RB0

Lowest Channel

Middle Channel

Spectrum

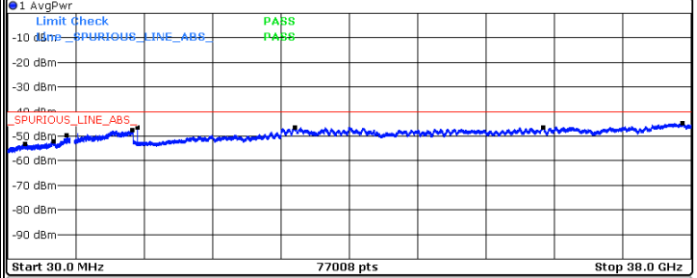
Ref Level 0.00 dBm Offset 8.72 dB Mode Auto Sweep
SGL Count 100/100

Start 30.0 MHz 77008 pts Stop 38.0 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	931.40680 MHz	-53.28 dBm	-13.28 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.51037 GHz	-52.04 dBm	-12.04 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.24375 GHz	-50.21 dBm	-10.21 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.92224 GHz	-47.55 dBm	-7.55 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.10174 GHz	-47.10 dBm	-7.10 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.03544 GHz	-46.51 dBm	-6.51 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.74677 GHz	-46.33 dBm	-6.33 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.54028 GHz	-44.68 dBm	-4.68 dB

Spectrum

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

Start 30.0 MHz 77008 pts Stop 38.0 GHz

Spurious Emissions

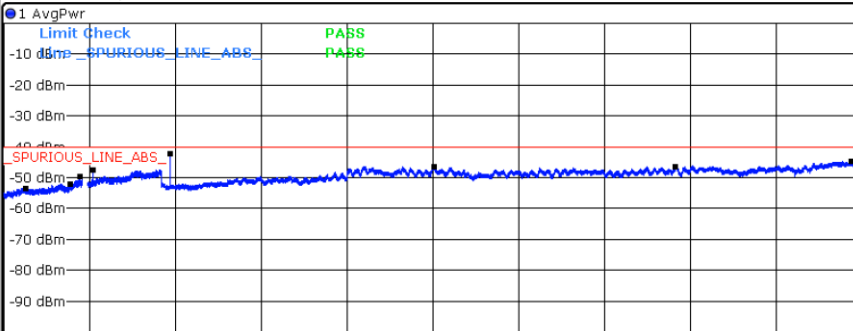
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	993.45577 MHz	-53.33 dBm	-13.33 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.59985 GHz	-52.16 dBm	-12.16 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.31097 GHz	-49.73 dBm	-9.73 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.96309 GHz	-47.41 dBm	-7.41 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.23673 GHz	-46.35 dBm	-6.35 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.99713 GHz	-46.38 dBm	-6.38 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.79876 GHz	-46.35 dBm	-6.35 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.52978 GHz	-44.82 dBm	-4.82 dB

Date: 15.NOV.2024 07:23:42

Date: 15.NOV.2024 07:25:08

Highest Channel

Spectrum

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

Start 30.0 MHz 77008 pts Stop 38.0 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	989.57771 MHz	-53.35 dBm	-13.35 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97326 GHz	-52.00 dBm	-12.00 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.37894 GHz	-49.50 dBm	-9.50 dB
3.750 GHz	7.000 GHz	1.000 MHz	3.99348 GHz	-47.49 dBm	-7.49 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.37172 GHz	-42.13 dBm	-2.13 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.05493 GHz	-46.35 dBm	-6.35 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.75477 GHz	-46.36 dBm	-6.36 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.50628 GHz	-44.68 dBm	-4.68 dB

Date: 15.NOV.2024 07:26:34

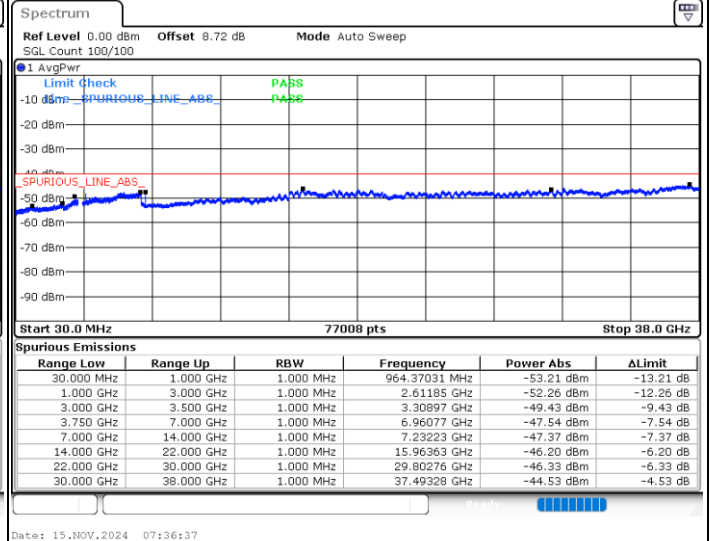
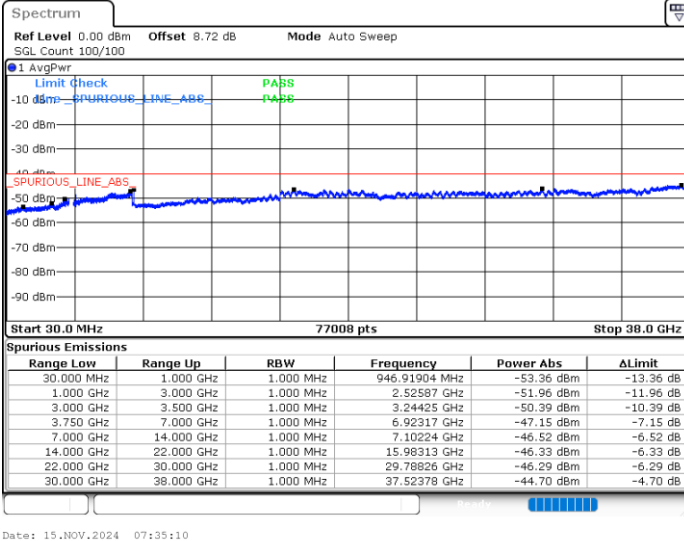


LTE Band 48 / 20MHz

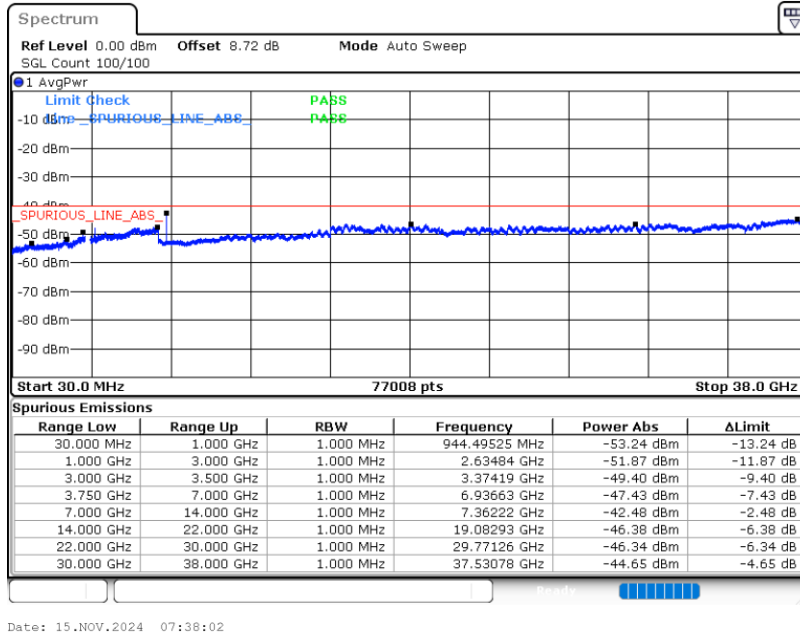
QPSK / 1RB0

Lowest Channel

Middle Channel



Highest Channel



Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0026	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0035	
20	Normal Voltage	0.0022	
20	Battery End Point	0.0046	

Note:

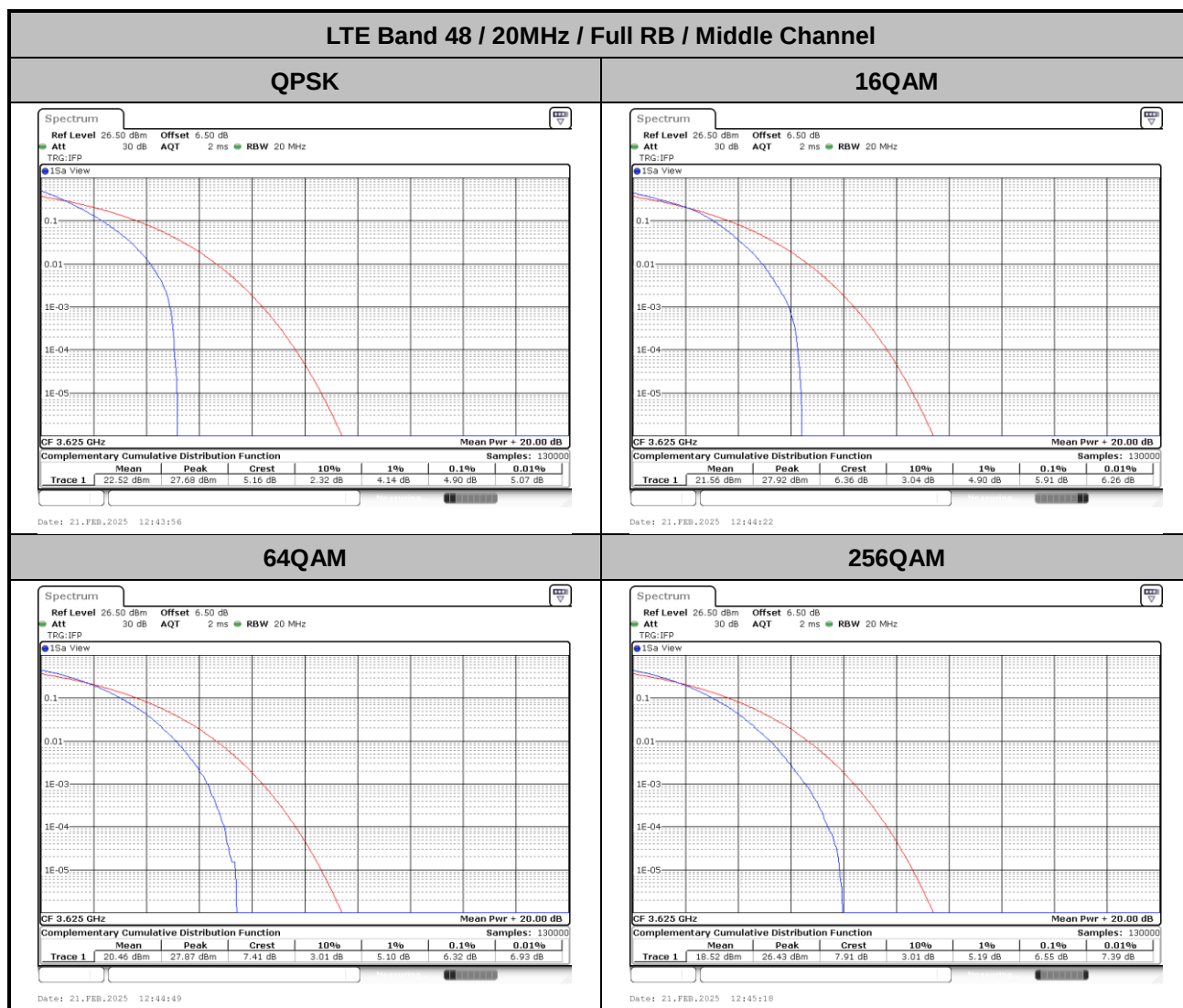
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.65V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 48 for Other PA

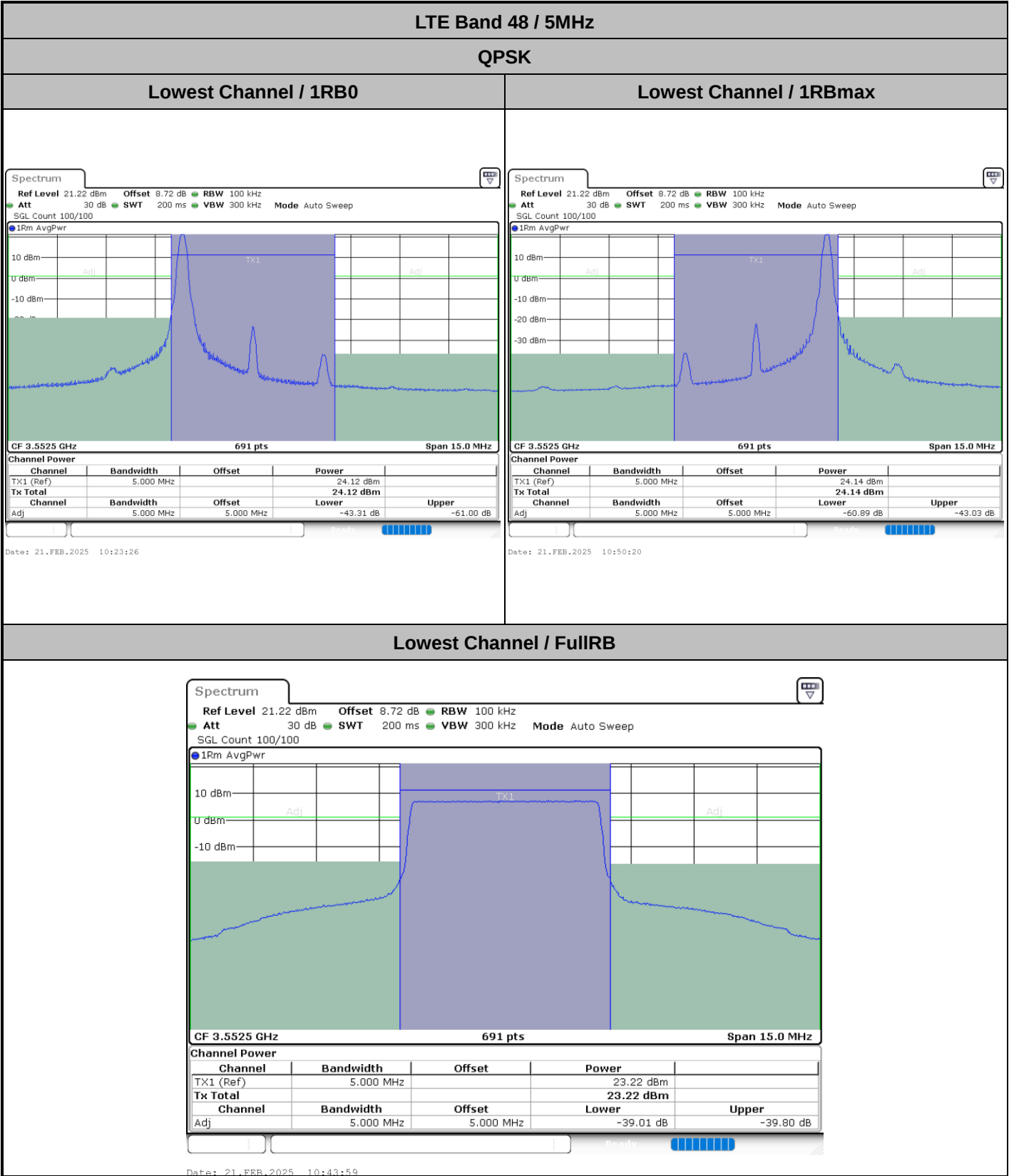
Peak-to-Average Ratio

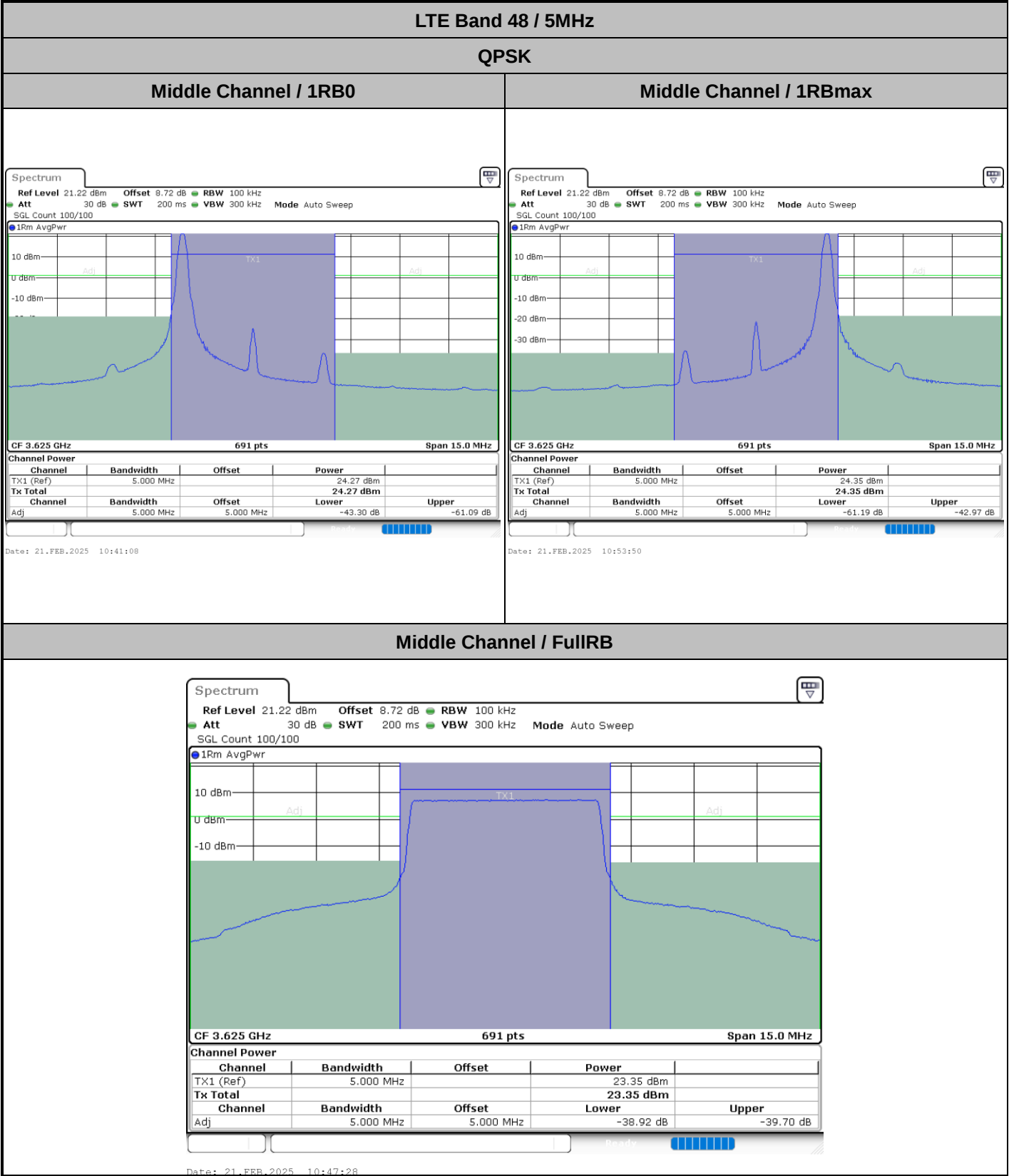
Mode	LTE Band 48 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB				Result
Middle CH	4.90	5.91	6.32	6.55	PASS

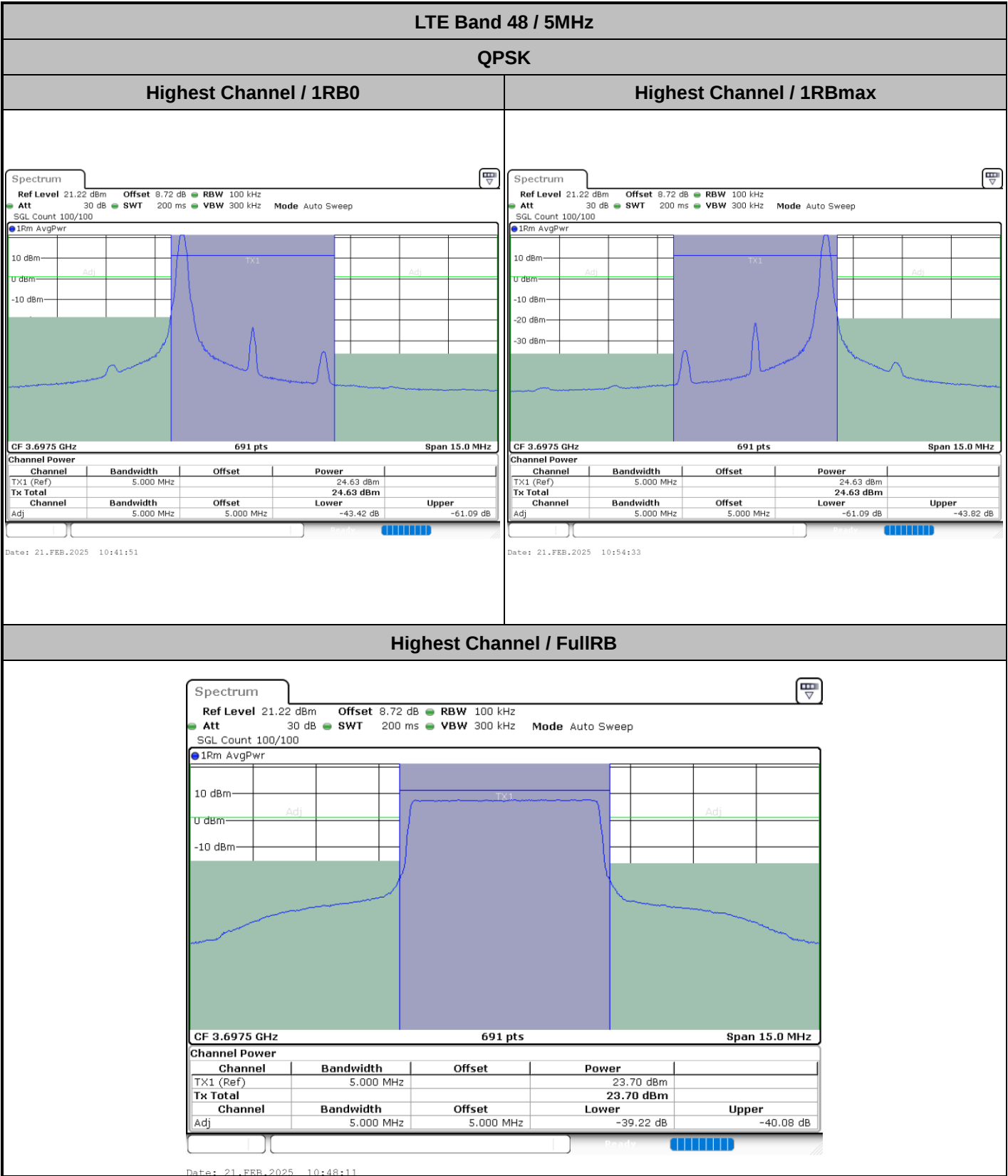


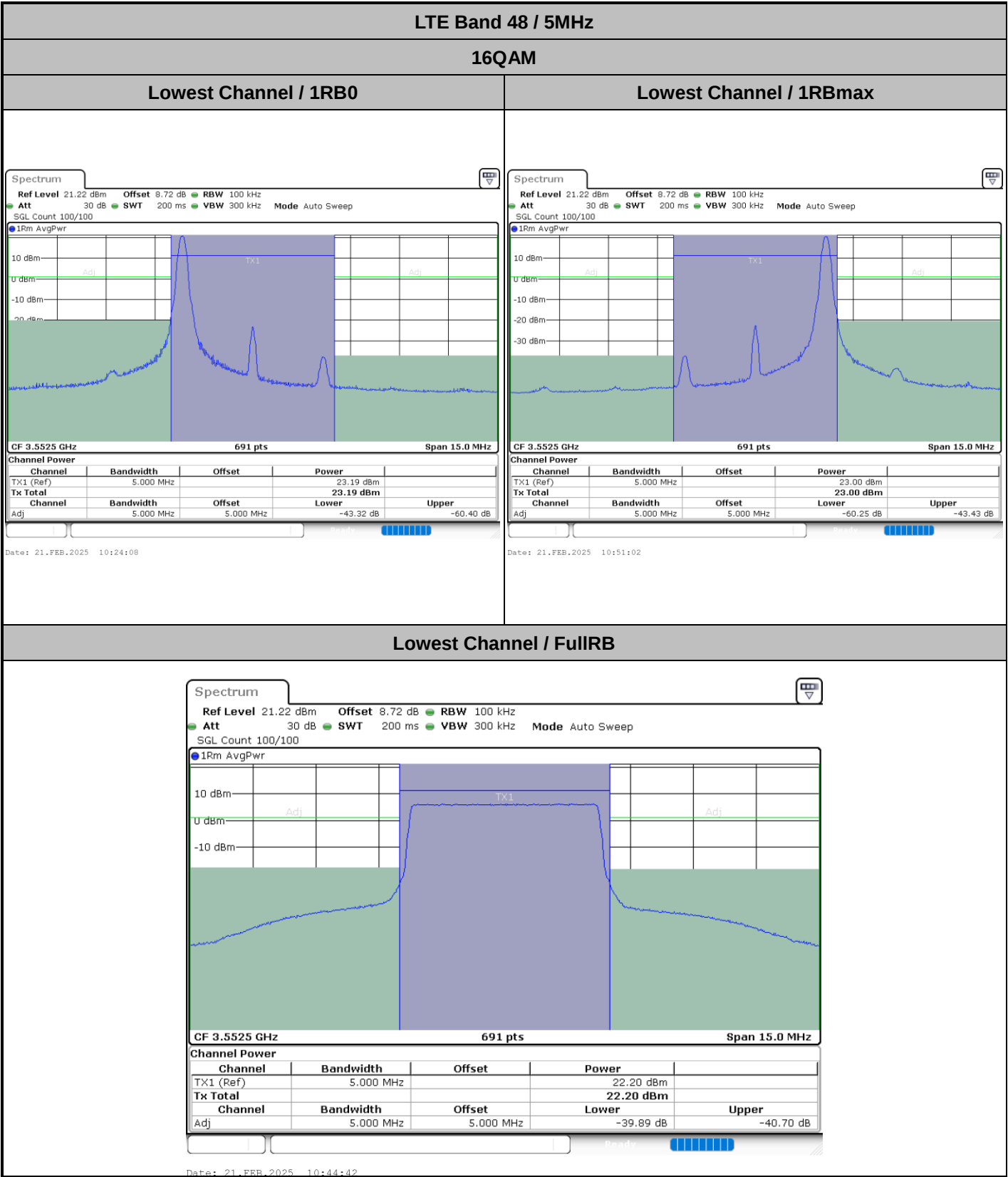


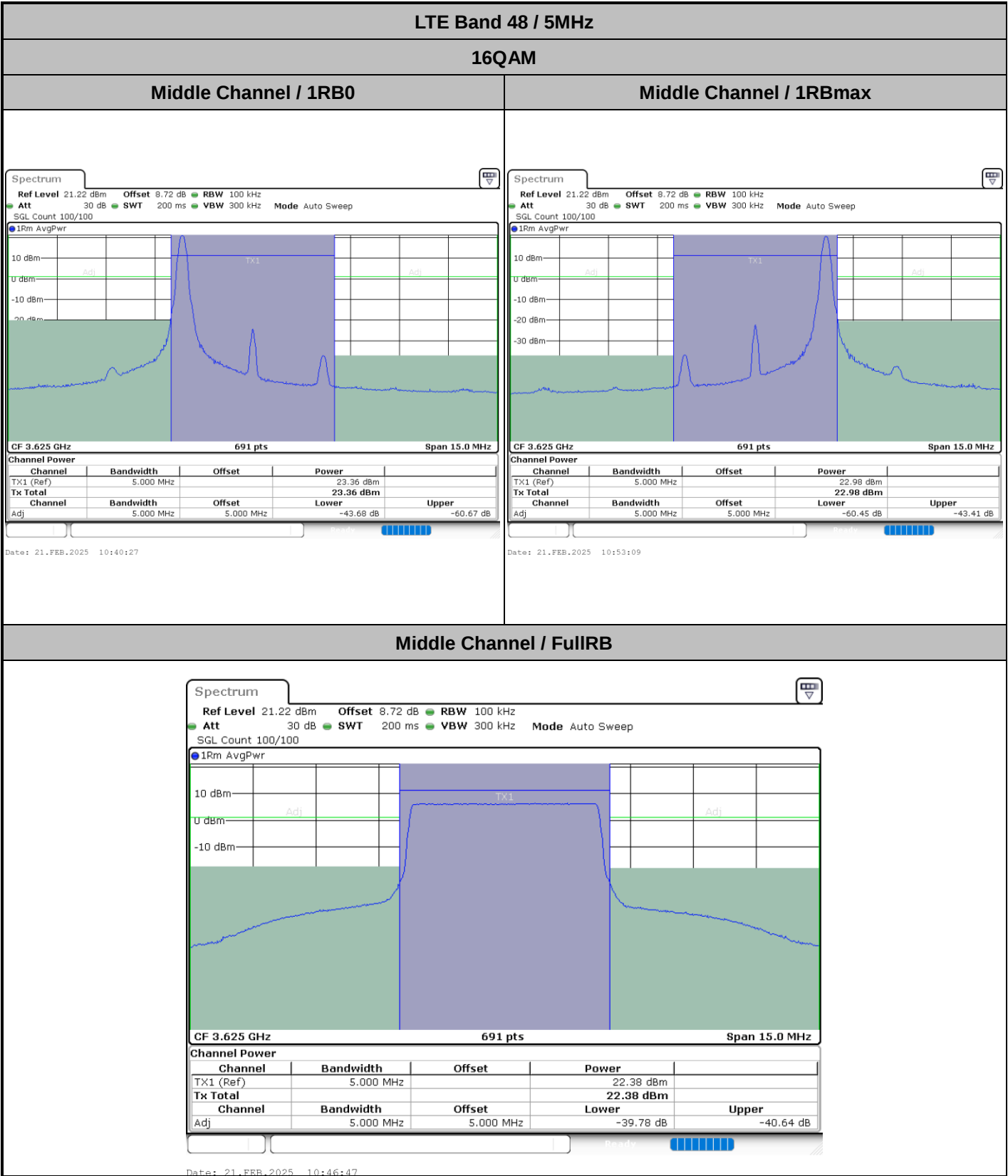
ACLR

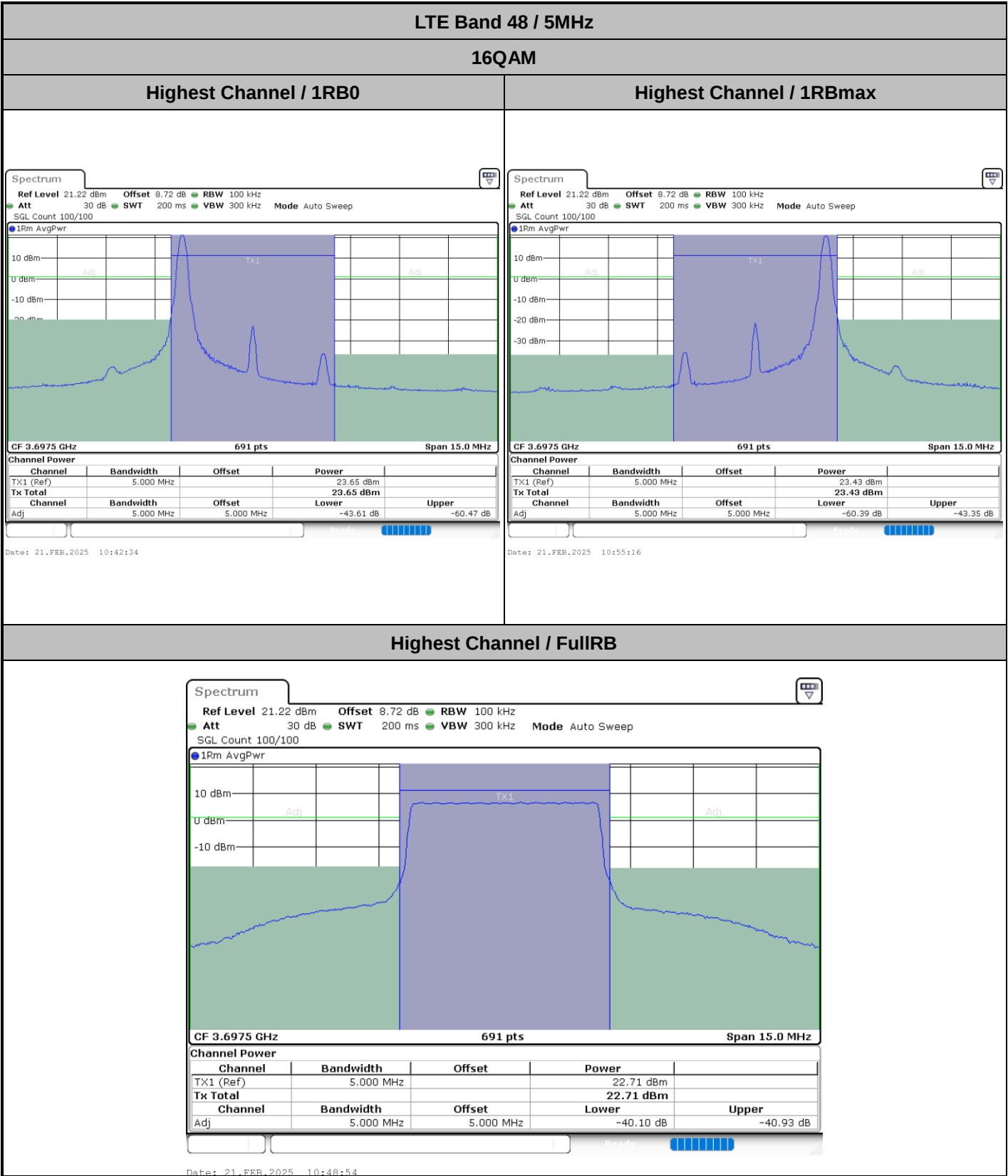


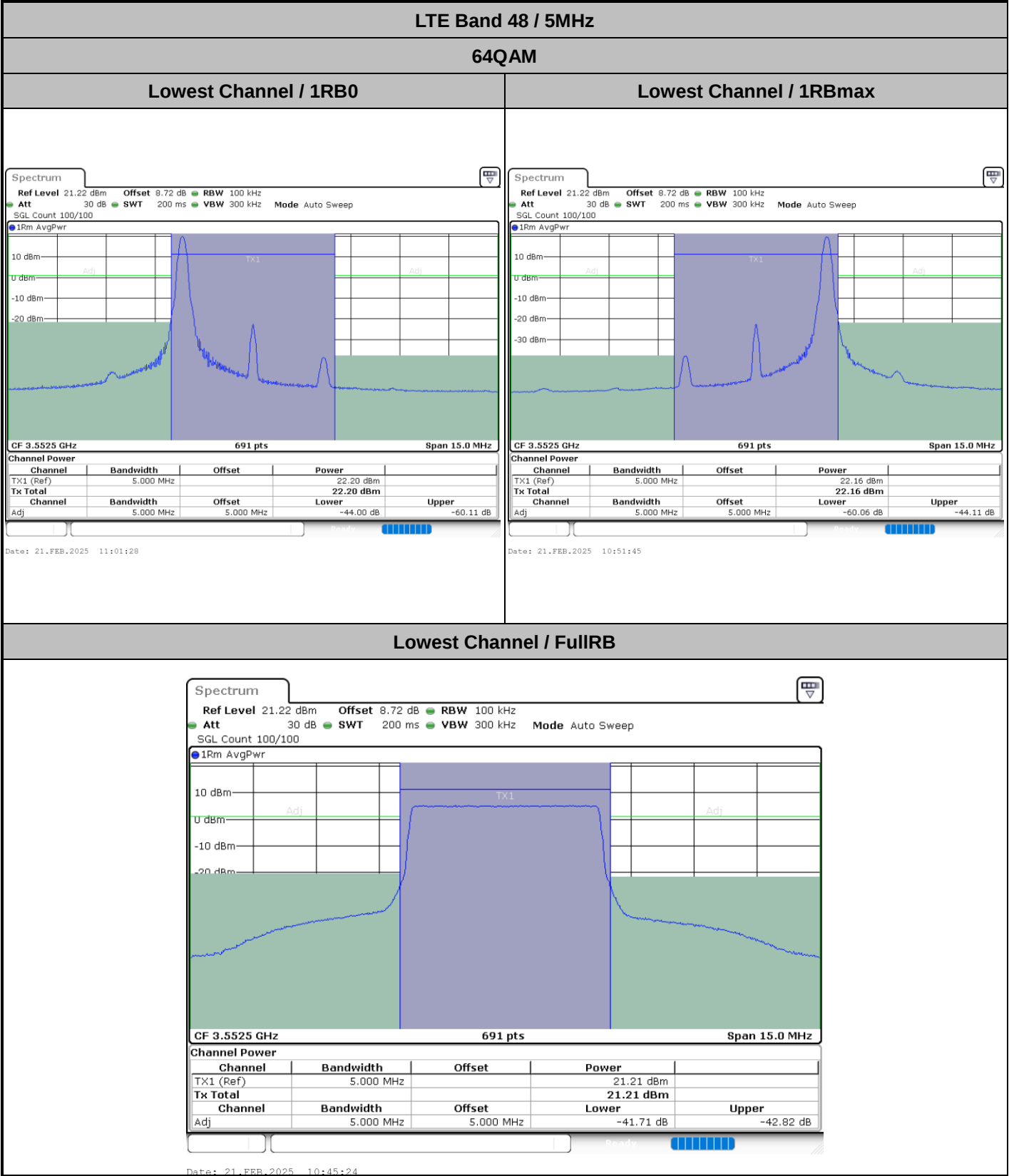


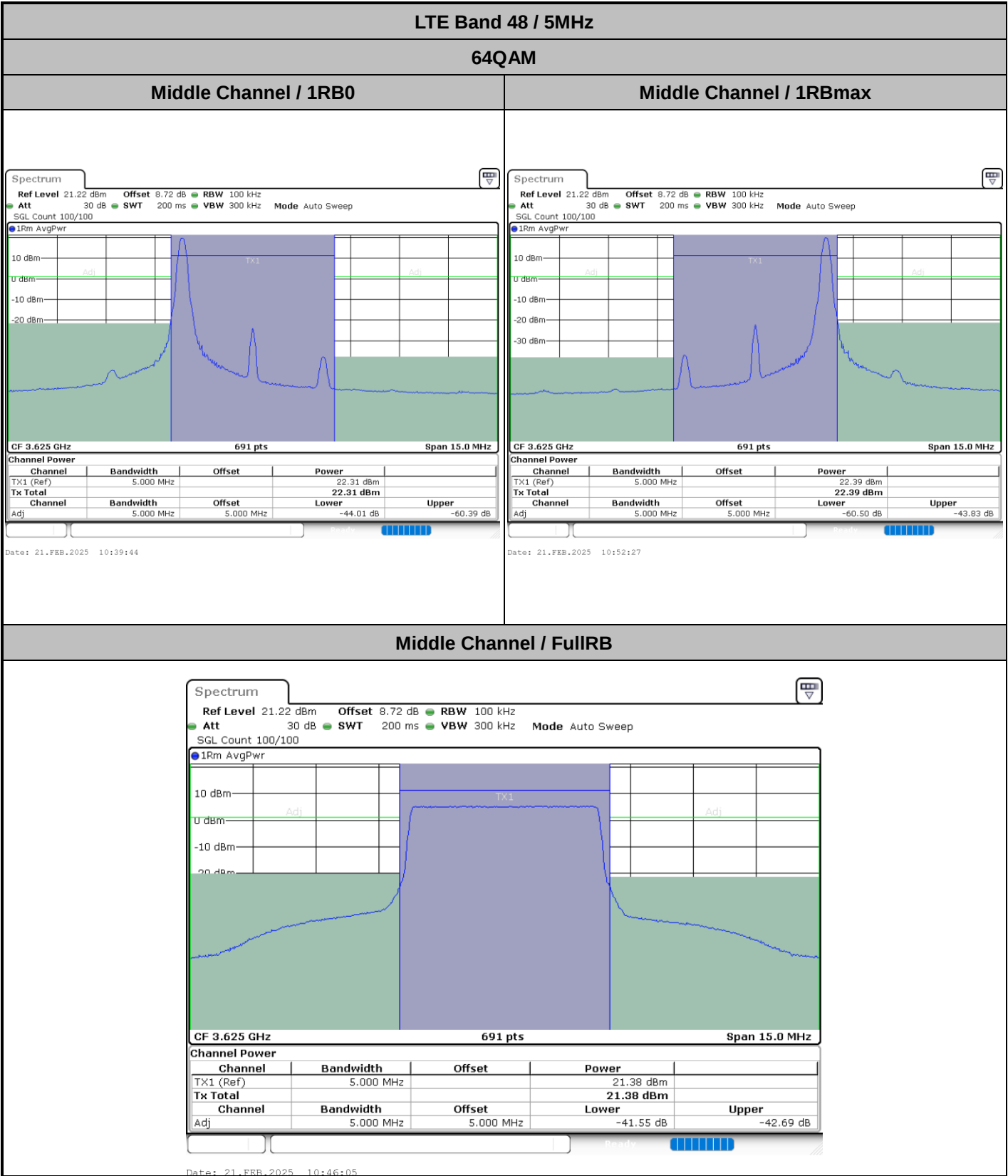


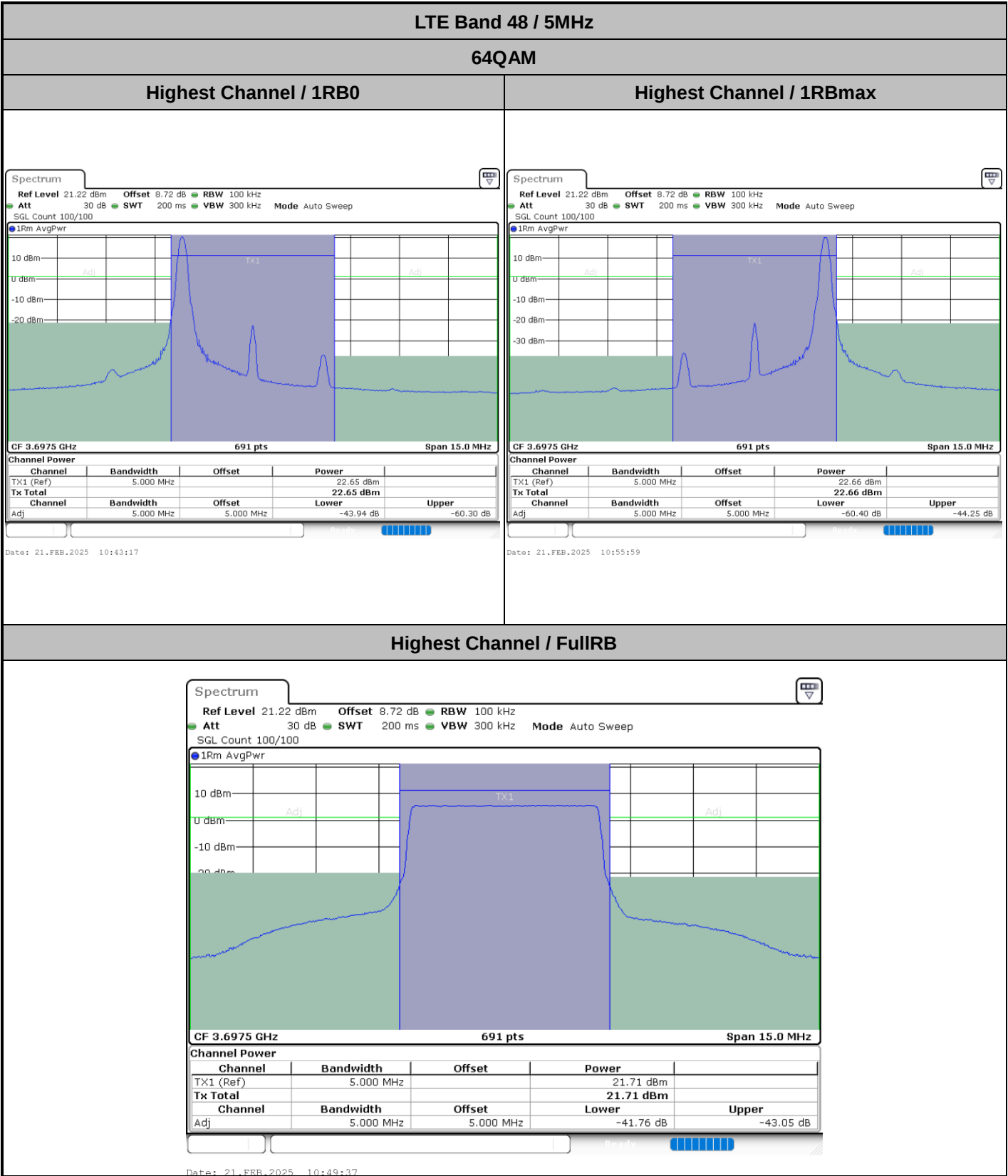










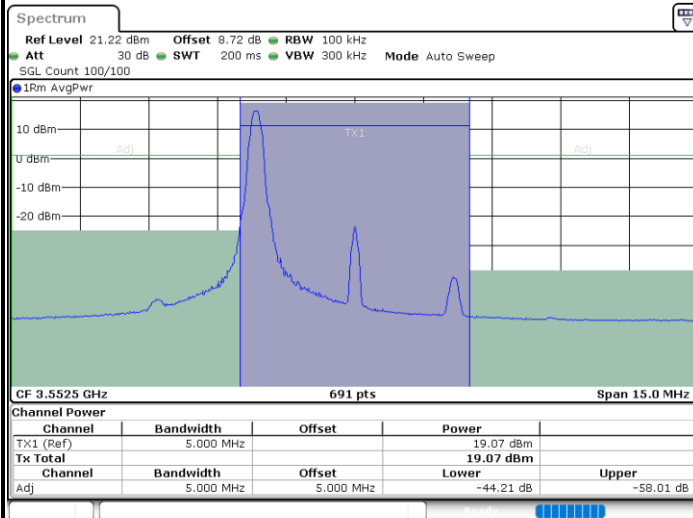




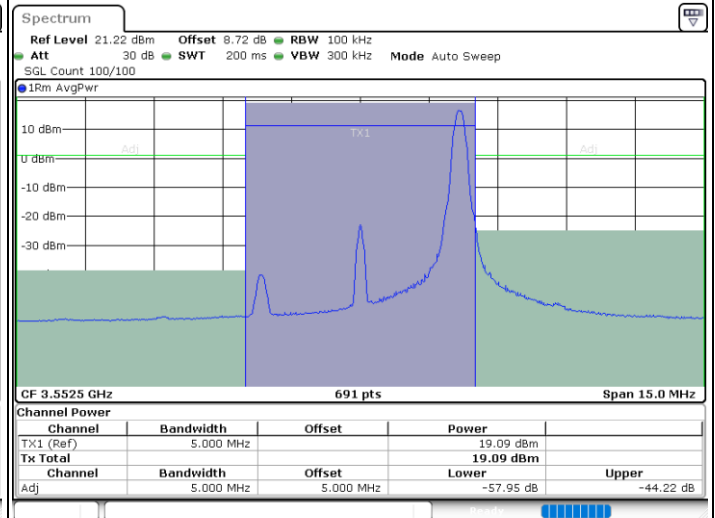
LTE Band 48 / 5MHz

256QAM

Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullRB

