

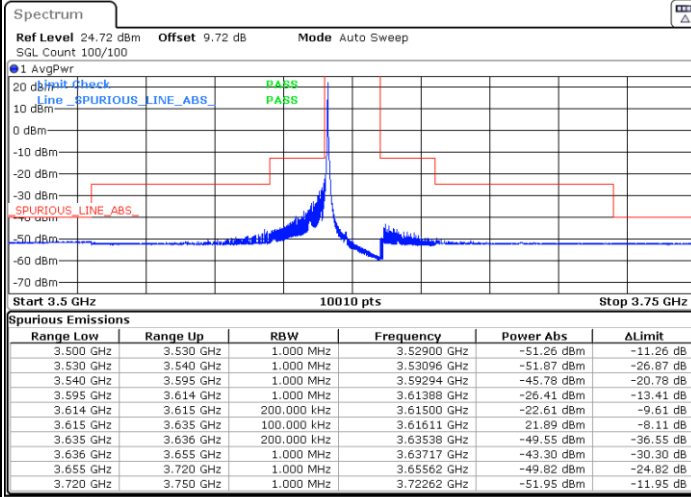


LTE Band 48 / 20MHz

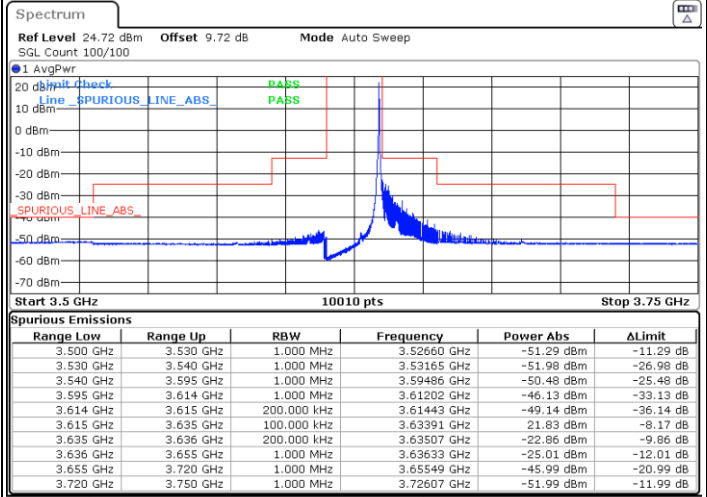
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



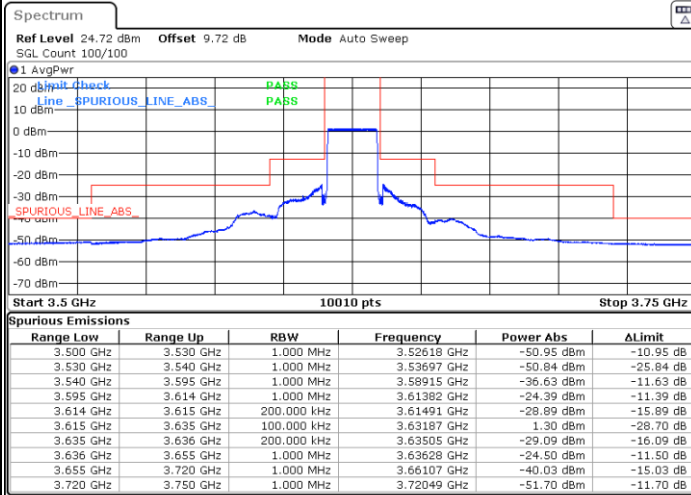
Date: 29.AUG.2024 16:17:54



Date: 29.AUG.2024 16:26:17

Middle Channel / Full

N/A



Date: 29.AUG.2024 16:34:40

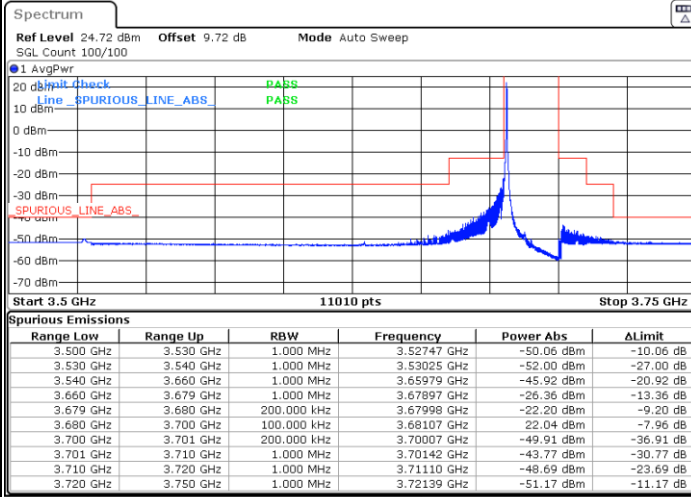


LTE Band 48 / 20MHz

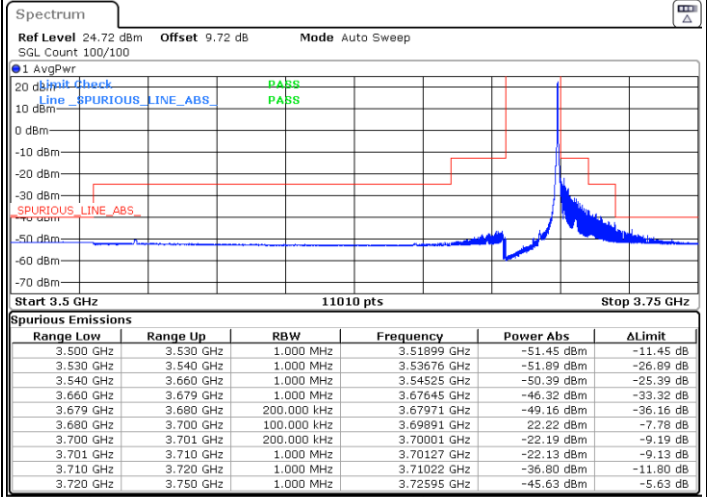
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



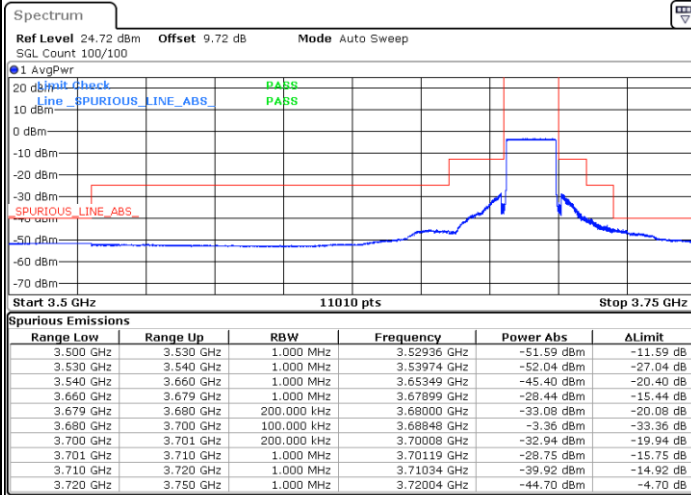
Date: 29.AUG.2024 16:43:03



Date: 29.AUG.2024 16:51:29

Highest Channel / FullRB

N/A



Date: 30.AUG.2024 10:53:09

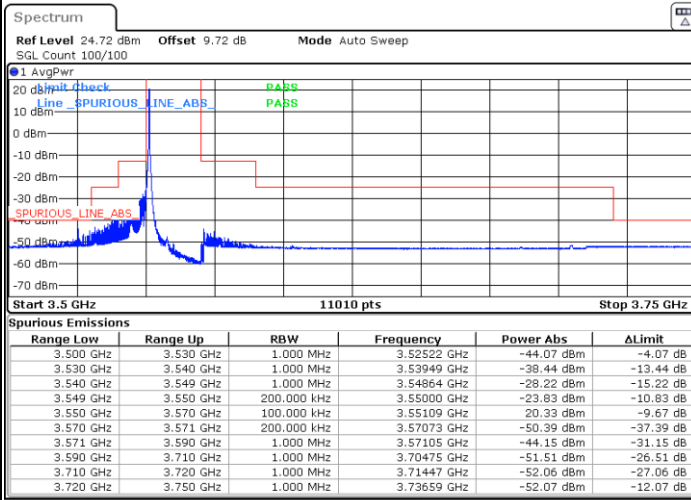


LTE Band 48 / 20MHz

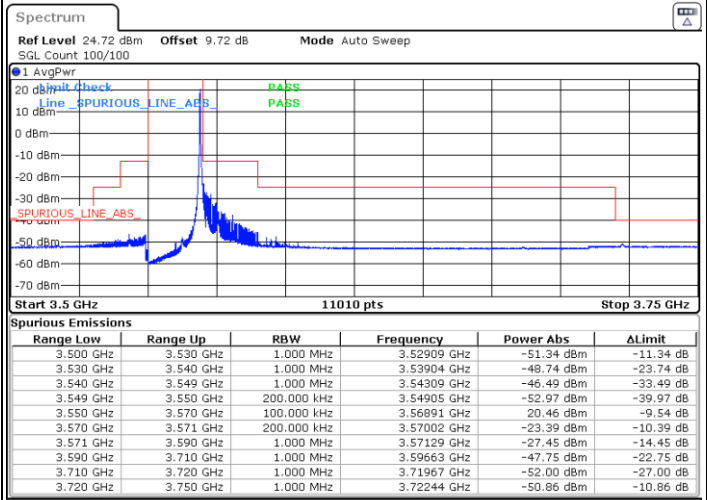
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



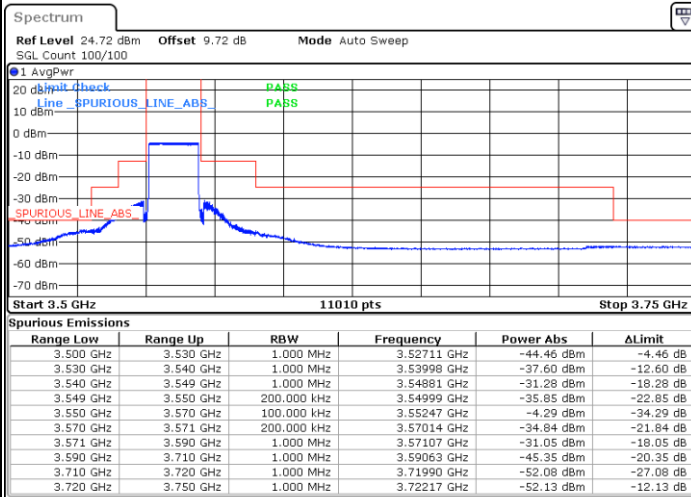
Date: 29.AUG.2024 15:54:45



Date: 29.AUG.2024 16:03:11

Lowest Channel / FullRB

N/A



Date: 30.AUG.2024 10:48:32

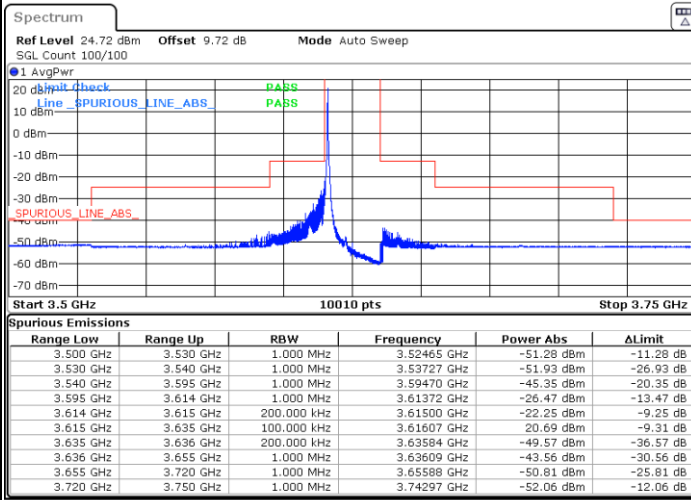


LTE Band 48 / 20MHz

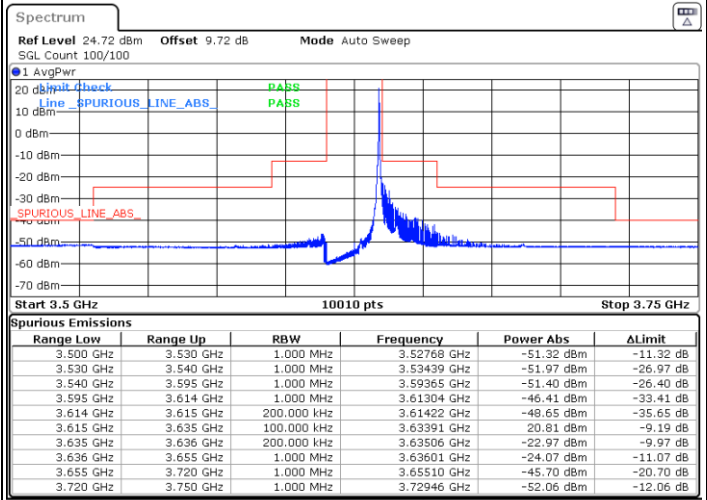
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



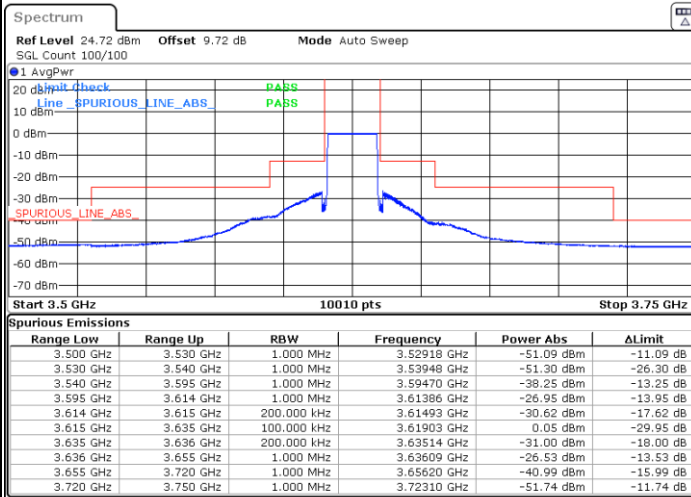
Date: 29.AUG.2024 16:20:00



Date: 29.AUG.2024 16:28:23

Middle Channel / Full

N/A



Date: 29.AUG.2024 16:36:46

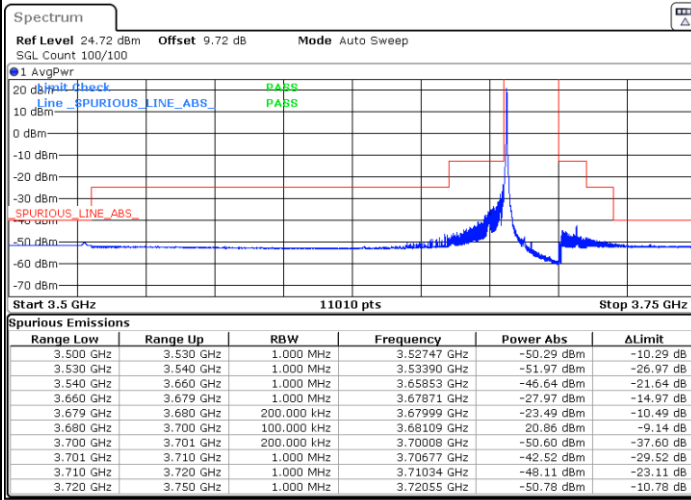


LTE Band 48 / 20MHz

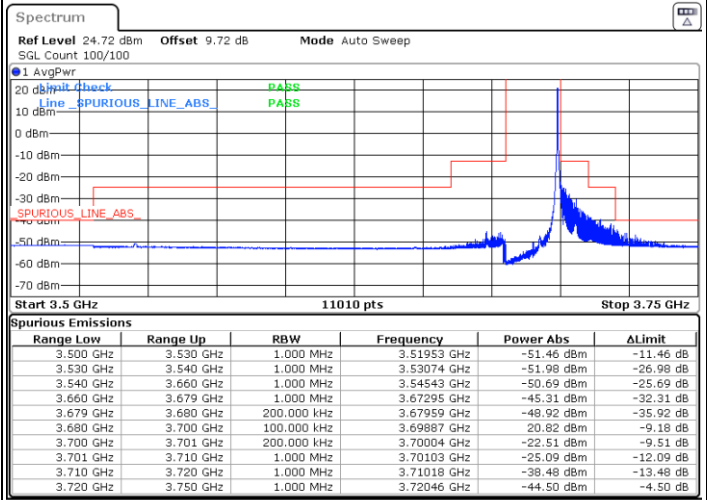
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



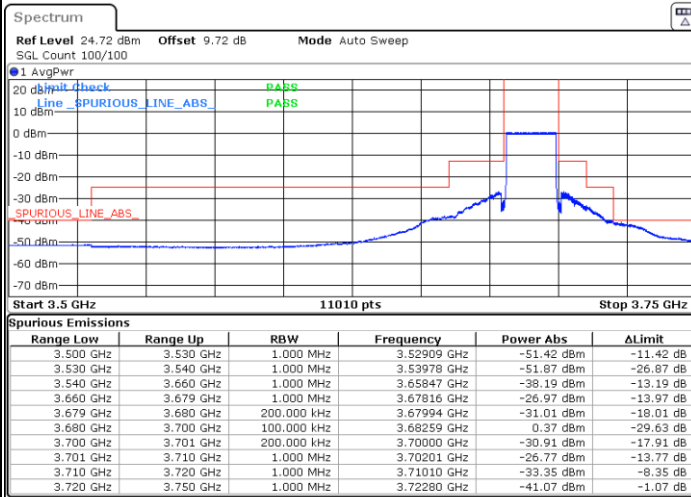
Date: 29.AUG.2024 16:45:09



Date: 29.AUG.2024 16:53:34

Highest Channel / FullIRB

N/A



Date: 29.AUG.2024 17:58:31

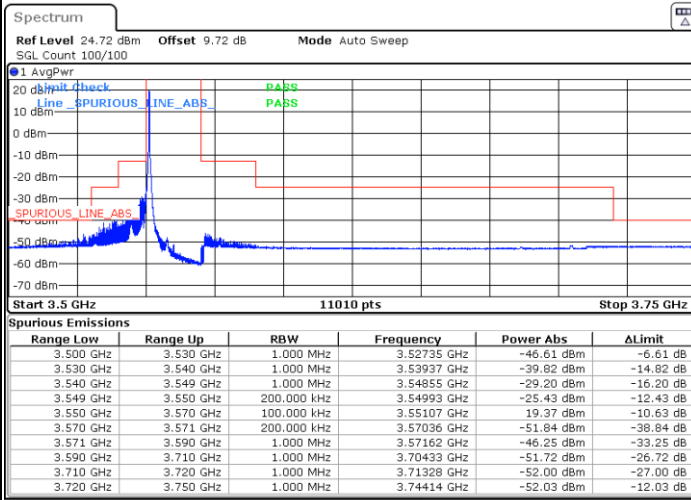


LTE Band 48 / 20MHz

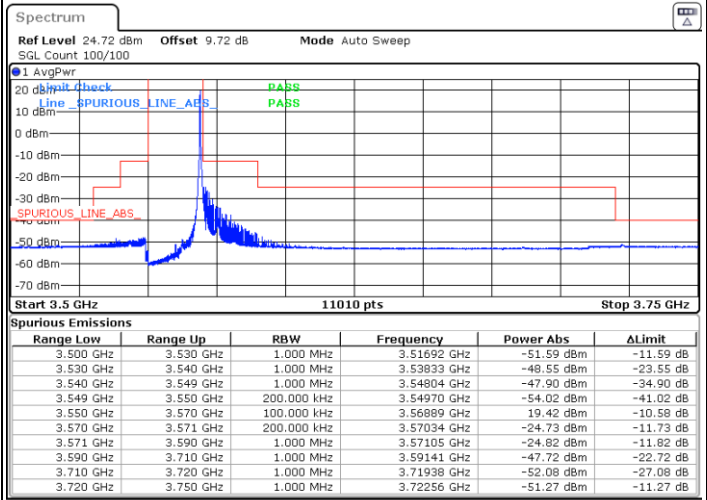
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



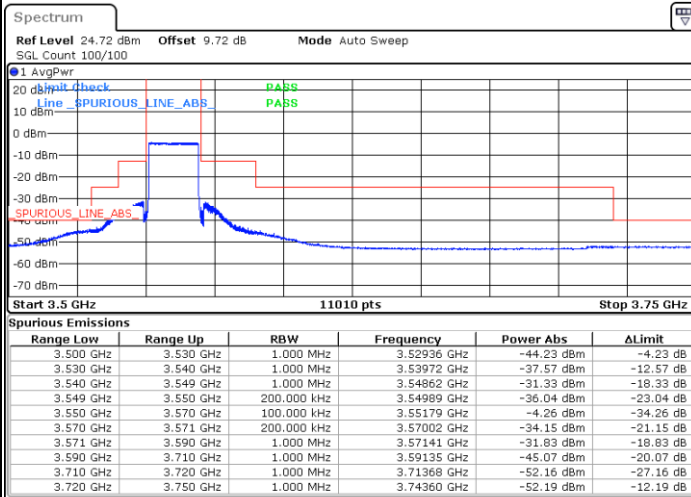
Date: 29.AUG.2024 15:56:51



Date: 29.AUG.2024 16:05:17

Lowest Channel / FullRB

N/A



Date: 30.AUG.2024 10:50:50

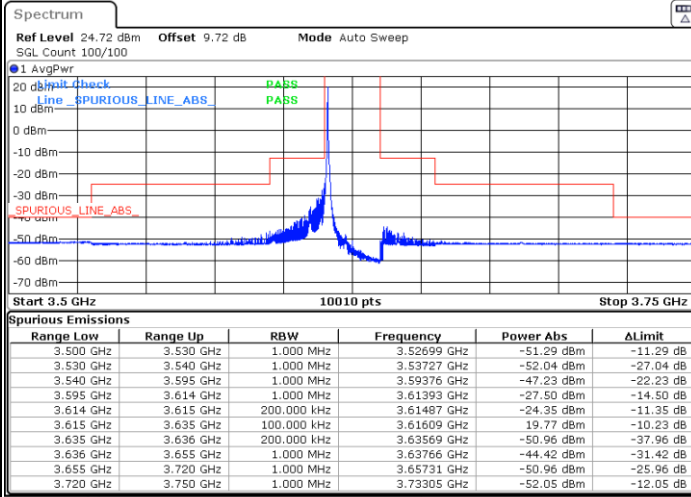


LTE Band 48 / 20MHz

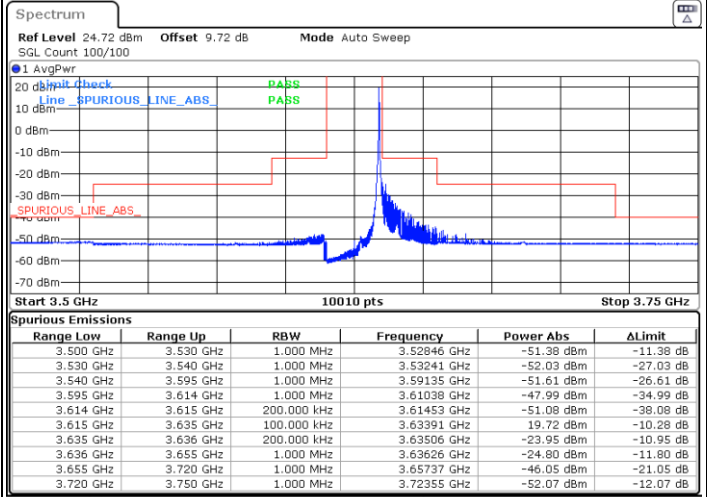
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



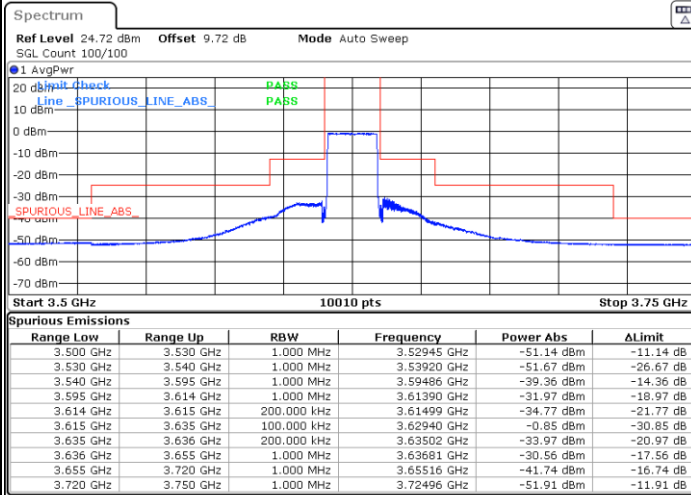
Date: 29.AUG.2024 16:22:05



Date: 29.AUG.2024 16:30:29

Middle Channel / Full

N/A



Date: 29.AUG.2024 16:38:52

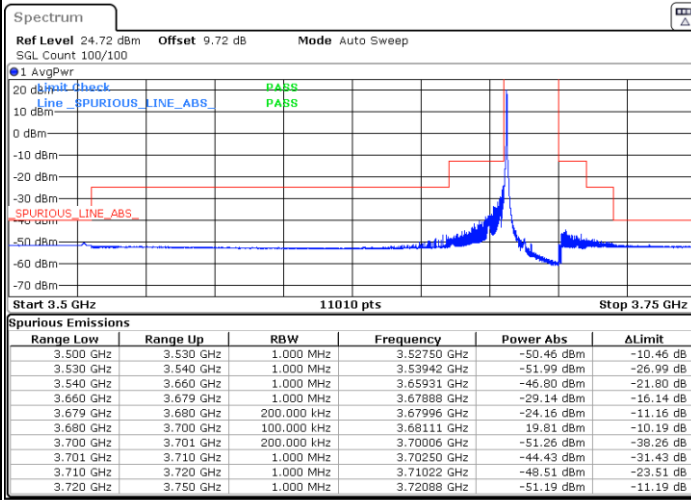


LTE Band 48 / 20MHz

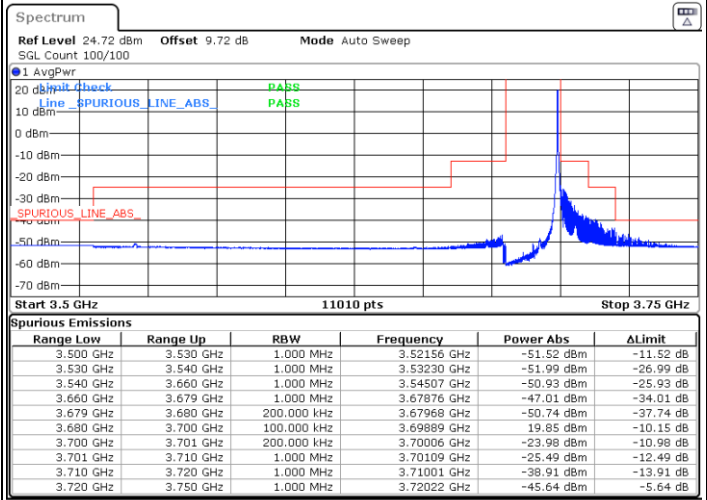
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



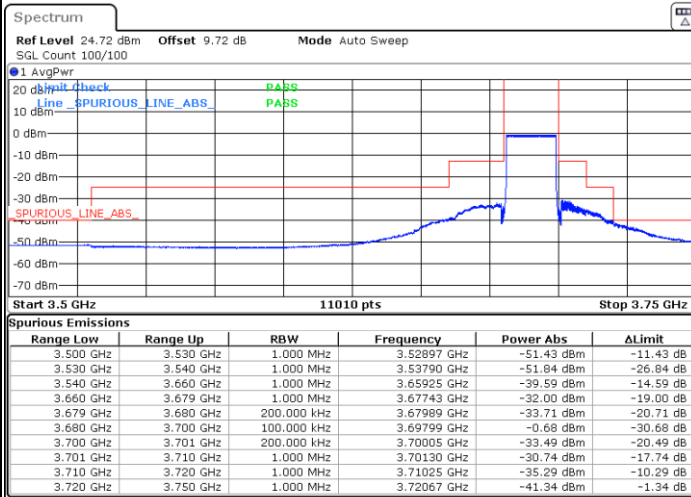
Date: 29.AUG.2024 16:47:15



Date: 29.AUG.2024 16:55:41

Highest Channel / FullIRB

N/A



Date: 29.AUG.2024 17:04:07

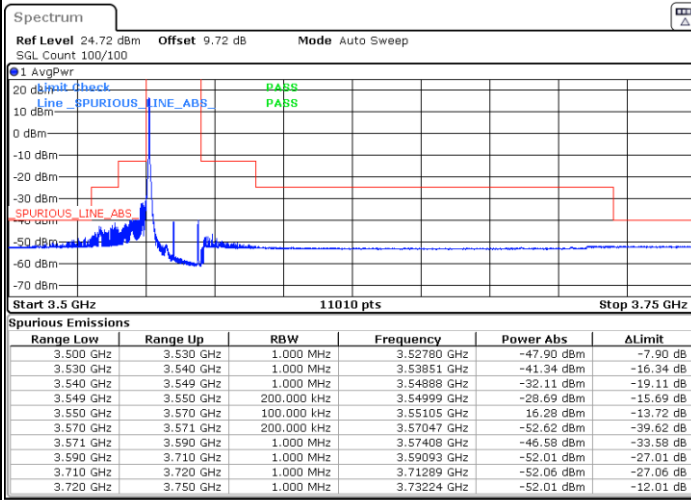


LTE Band 48 / 20MHz

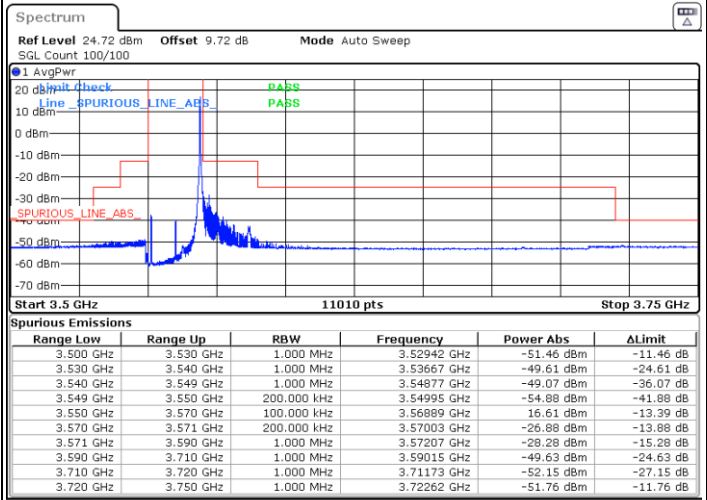
256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



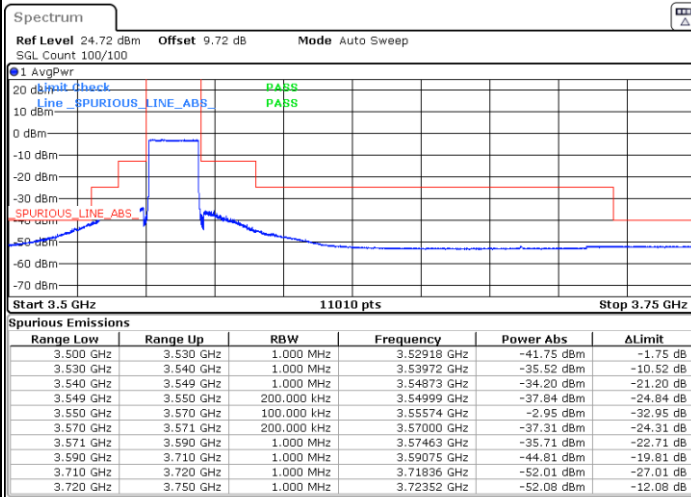
Date: 29.AUG.2024 15:58:58



Date: 29.AUG.2024 16:07:23

Lowest Channel / FullRB

N/A



Date: 29.AUG.2024 16:15:48

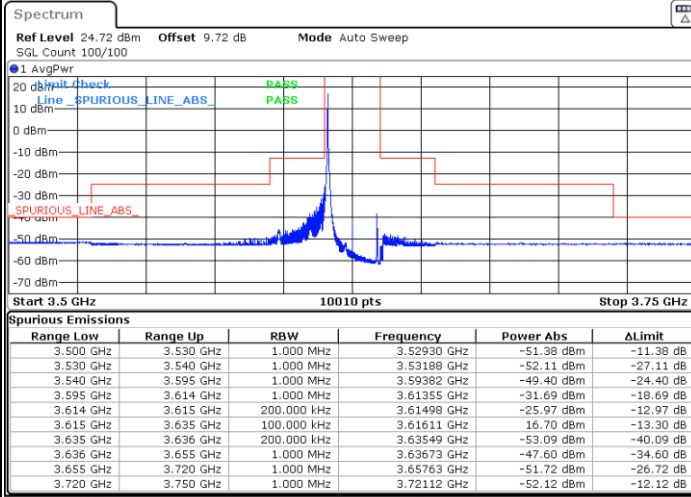


LTE Band 48 / 20MHz

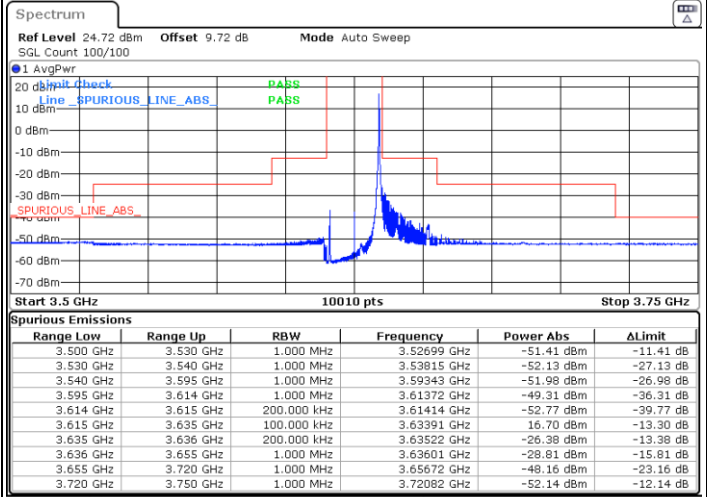
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



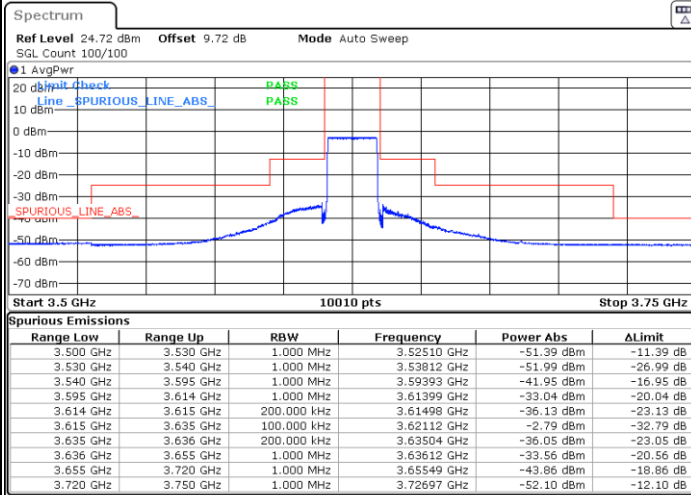
Date: 29.AUG.2024 16:24:11



Date: 29.AUG.2024 16:32:34

Middle Channel / Full

N/A



Date: 29.AUG.2024 16:40:57

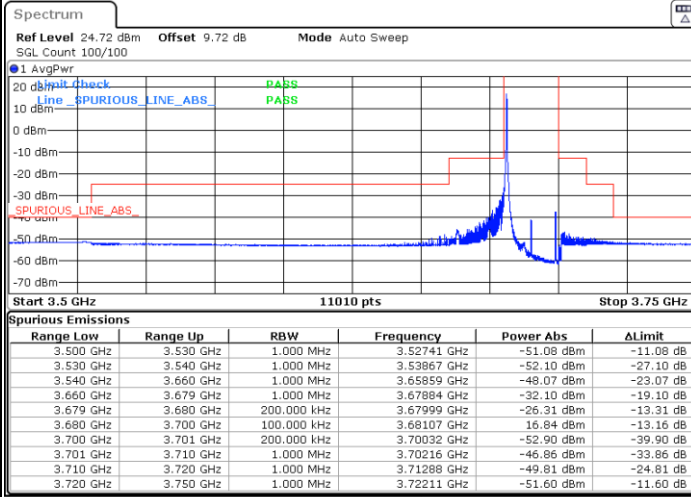


LTE Band 48 / 20MHz

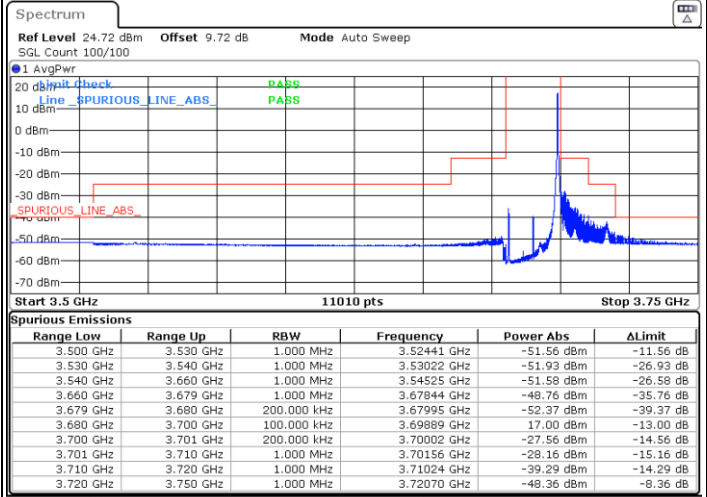
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



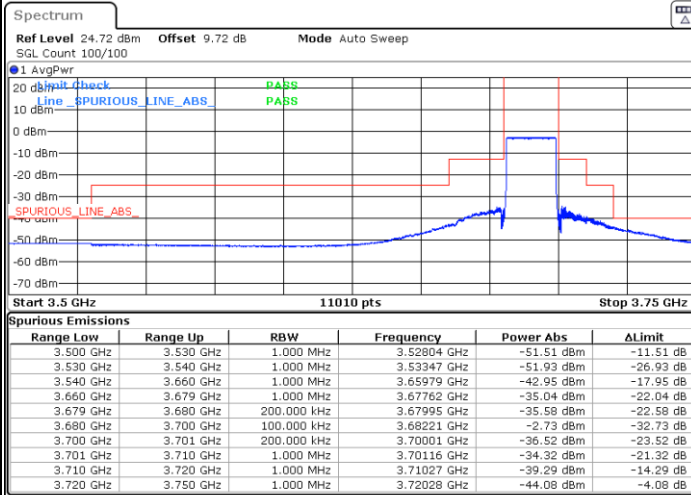
Date: 29.AUG.2024 16:49:22



Date: 29.AUG.2024 16:57:47

Highest Channel / FullRB

N/A



Date: 29.AUG.2024 17:06:13



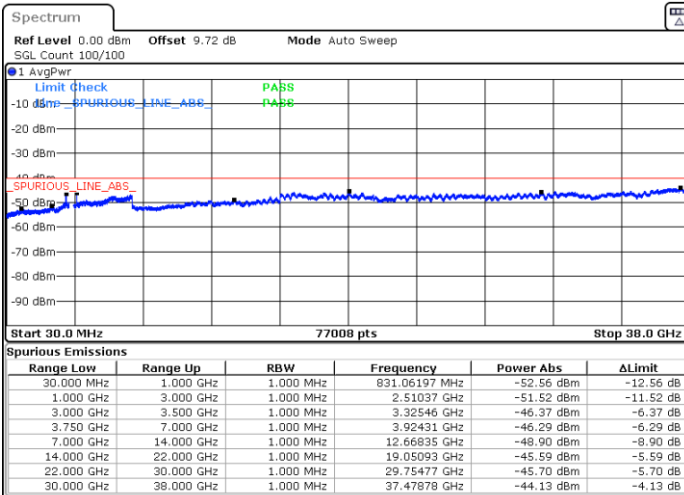
Conducted Spurious Emission

LTE Band 48 / 5MHz

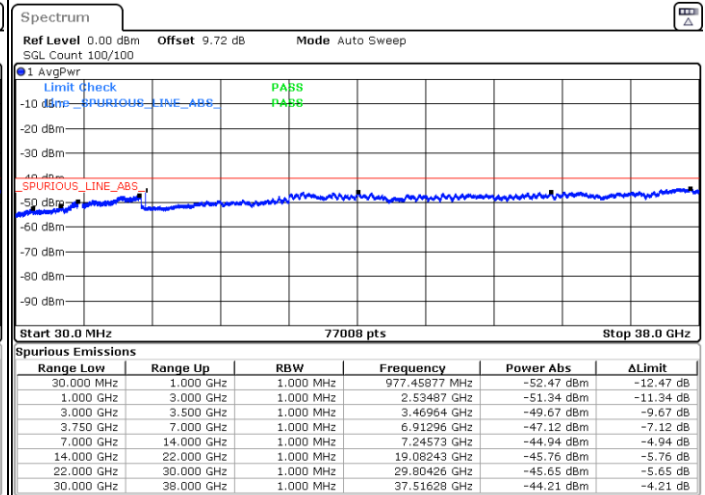
QPSK / 1RB0

Lowest Channel

Middle Channel

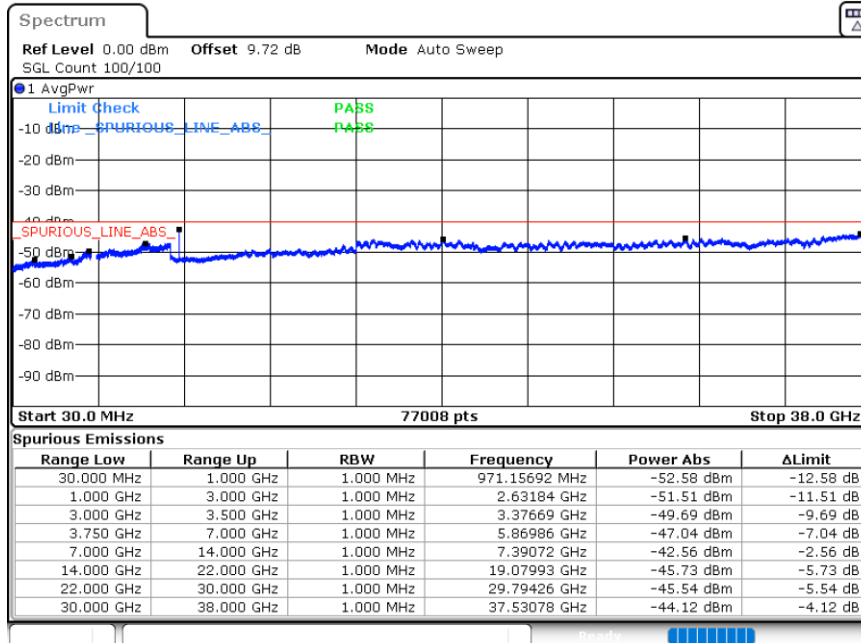


Date: 26.SEP.2024 21:58:43



Date: 26.SEP.2024 22:00:03

Highest Channel



Date: 26.SEP.2024 22:01:24

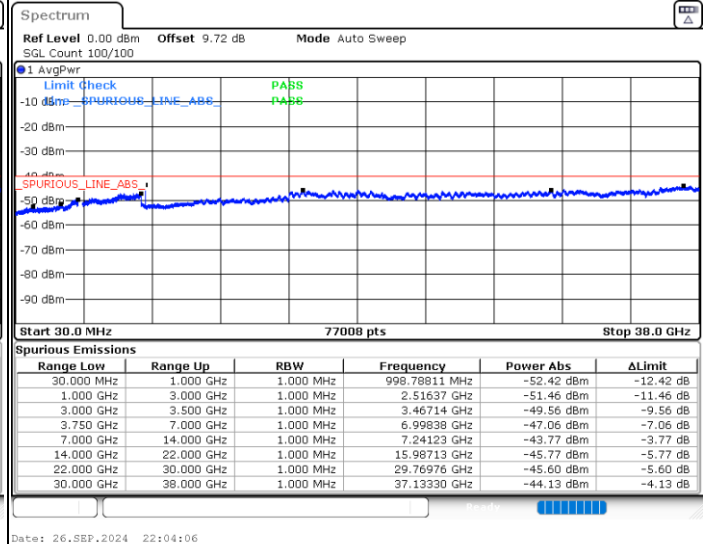
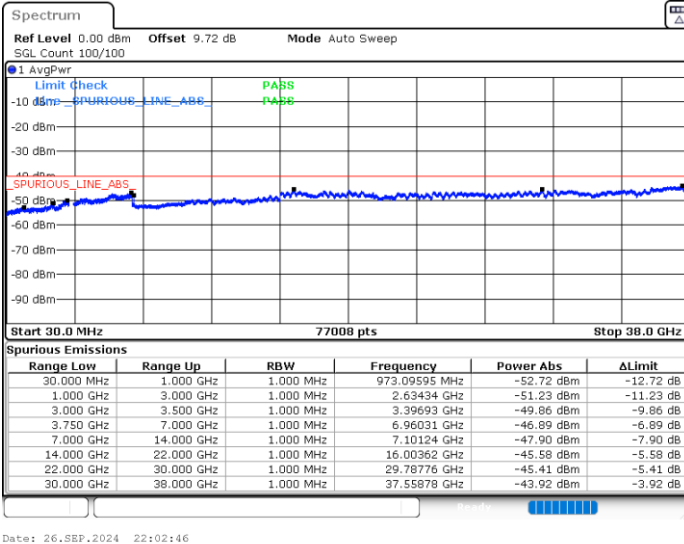


LTE Band 48 / 10MHz

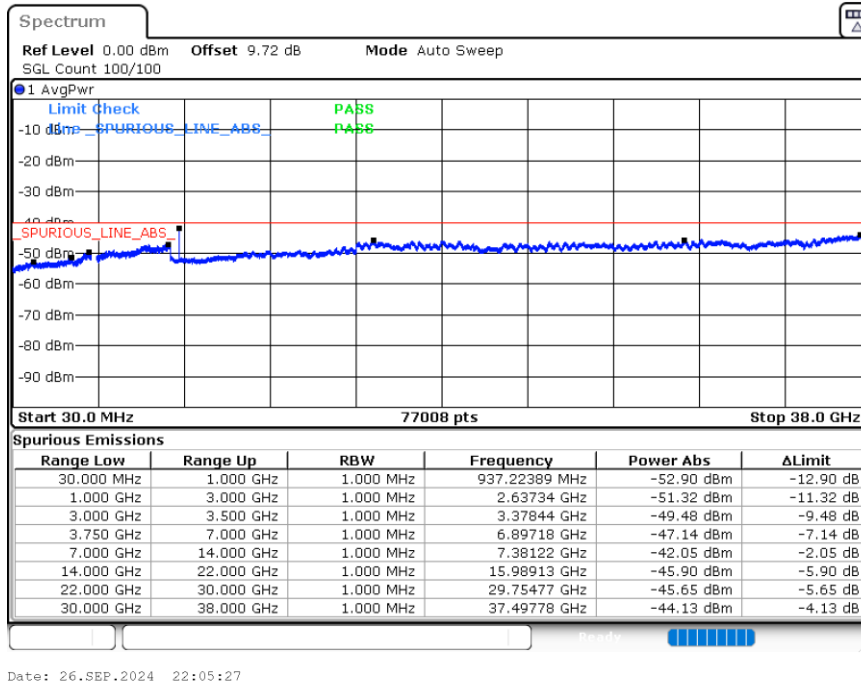
QPSK / 1RB0

Lowest Channel

Middle Channel



Highest Channel





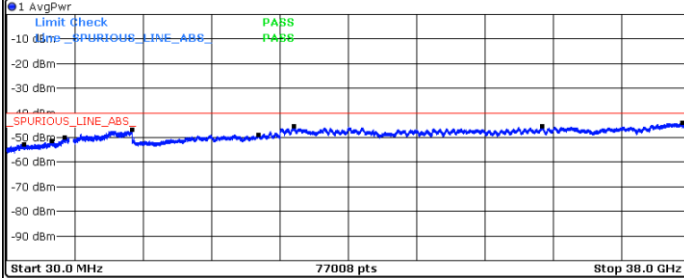
LTE Band 48 / 15MHz

QPSK / 1RB0

Lowest Channel

Middle Channel

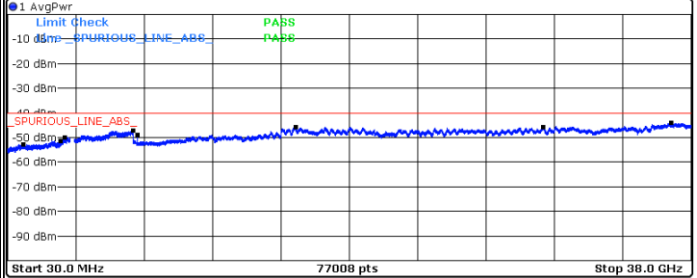
Spectrum

Ref Level 0.00 dBm Offset 9.72 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	985.69965 MHz	-52.71 dBm	-12.71 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.51587 GHz	-51.51 dBm	-11.51 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.22701 GHz	-50.03 dBm	-10.03 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.99791 GHz	-46.81 dBm	-6.81 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.99575 GHz	-48.93 dBm	-8.93 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.98313 GHz	-45.55 dBm	-5.55 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.77976 GHz	-45.44 dBm	-5.44 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.55428 GHz	-44.06 dBm	-4.06 dB

Date: 26.SEP.2024 22:06:49

Spectrum

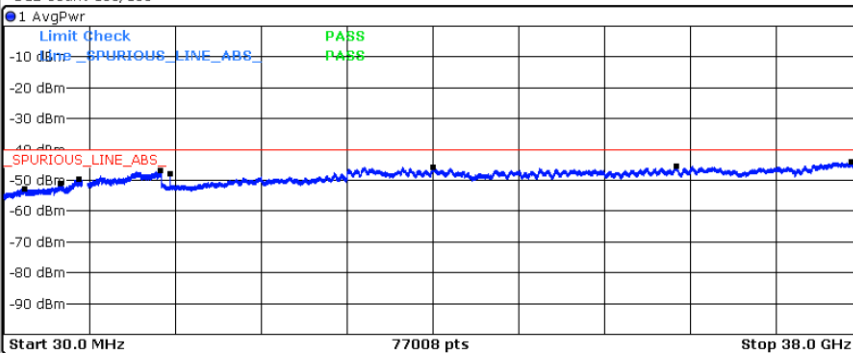
Ref Level 0.00 dBm Offset 9.72 dB Mode Auto Sweep
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	873.23588 MHz	-52.66 dBm	-12.66 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96576 GHz	-51.25 dBm	-11.25 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.22576 GHz	-50.00 dBm	-10.00 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.99977 GHz	-47.17 dBm	-7.17 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.23673 GHz	-48.78 dBm	-8.78 dB
14.000 GHz	22.000 GHz	1.000 MHz	16.03012 GHz	-45.84 dBm	-5.84 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.79576 GHz	-45.67 dBm	-5.67 dB
30.000 GHz	38.000 GHz	1.000 MHz	36.90282 GHz	-44.11 dBm	-4.11 dB

Date: 26.SEP.2024 22:08:09

Highest Channel

Spectrum

Ref Level 0.00 dBm Offset 9.72 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	944.01049 MHz	-52.73 dBm	-12.73 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.53387 GHz	-51.21 dBm	-11.21 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.34345 GHz	-49.77 dBm	-9.77 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.94267 GHz	-46.95 dBm	-6.95 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.37172 GHz	-47.94 dBm	-7.94 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.02844 GHz	-45.86 dBm	-5.86 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.76826 GHz	-45.53 dBm	-5.53 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.52328 GHz	-43.98 dBm	-3.98 dB

Date: 26.SEP.2024 22:09:30

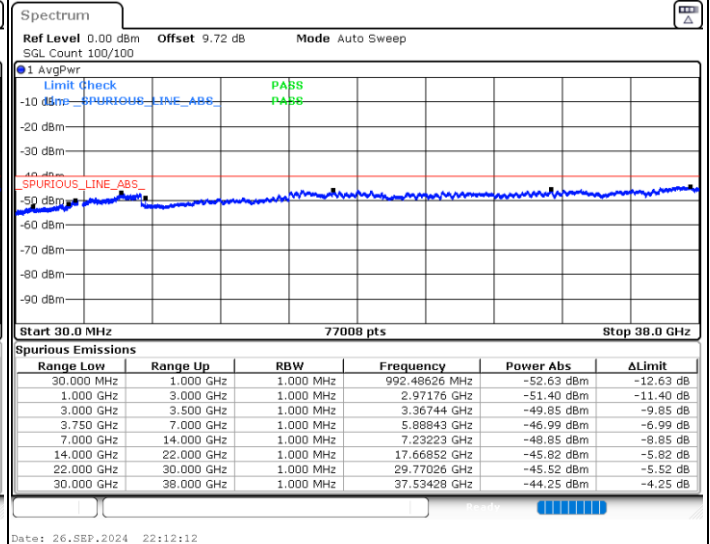
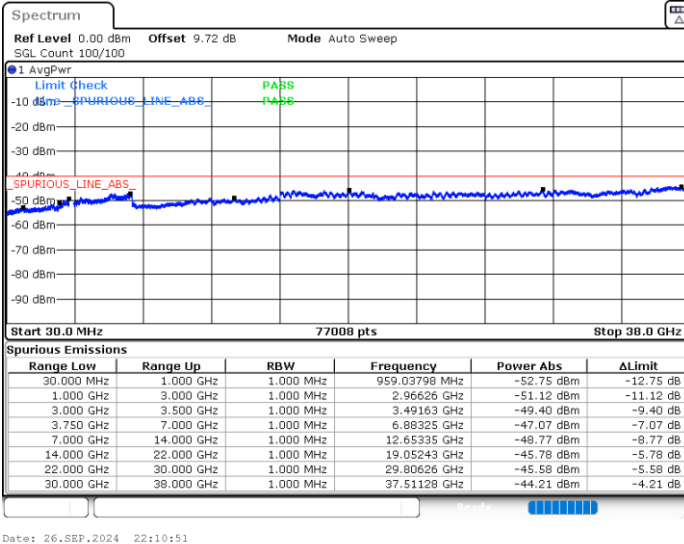


LTE Band 48 / 20MHz

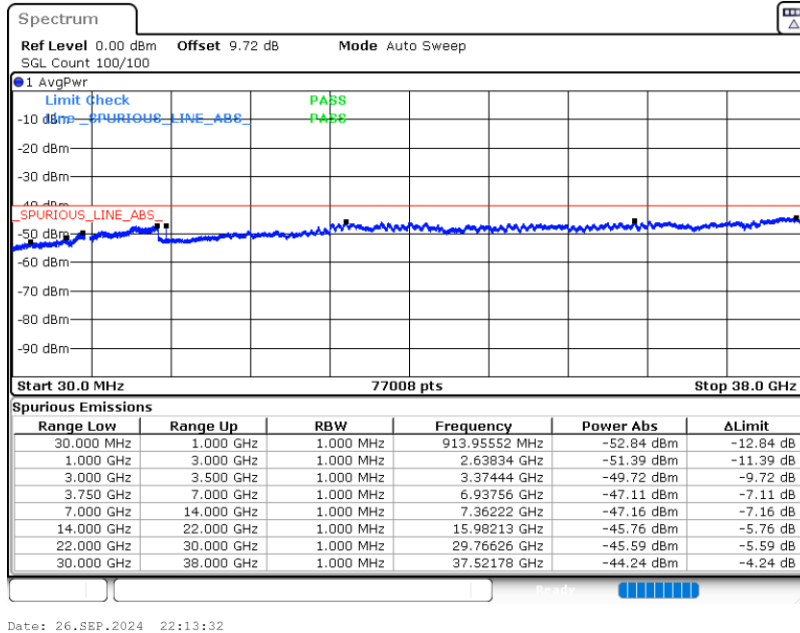
QPSK / 1RB0

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	0.0038	PASS
40	Normal Voltage	0.0054	
30	Normal Voltage	0.0066	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0049	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0057	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0004	
20	Battery End Point	0.0026	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Levi Zhao	Temperature :	22~25°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

LTE Band 48 / 20MHz / QPSK / Ant.4								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7231	-63.92	-40	-23.92	-75.38	2.84	14.30	H
	10850	-62.48	-40	-22.48	-72.42	3.49	13.43	H
	14469	-57.94	-40	-17.94	-68.18	3.85	14.09	H
	7231	-63.87	-40	-23.87	-75.33	2.84	14.30	V
	10850	-62.40	-40	-22.40	-72.34	3.49	13.43	V
	14469	-53.72	-40	-13.72	-63.96	3.85	14.09	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.