

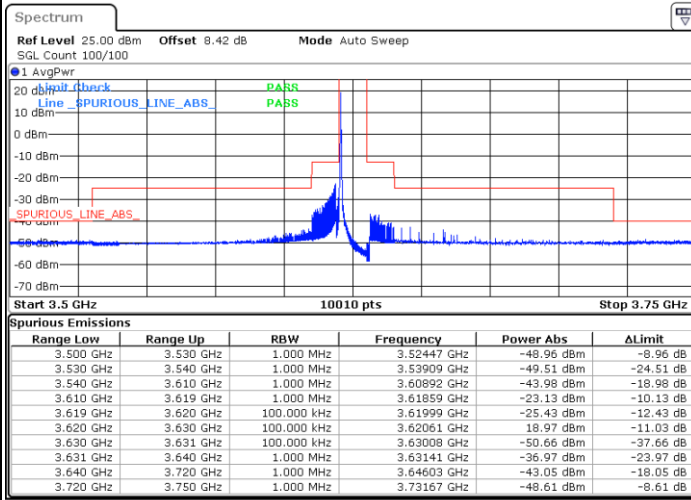


LTE Band 48 / 10MHz

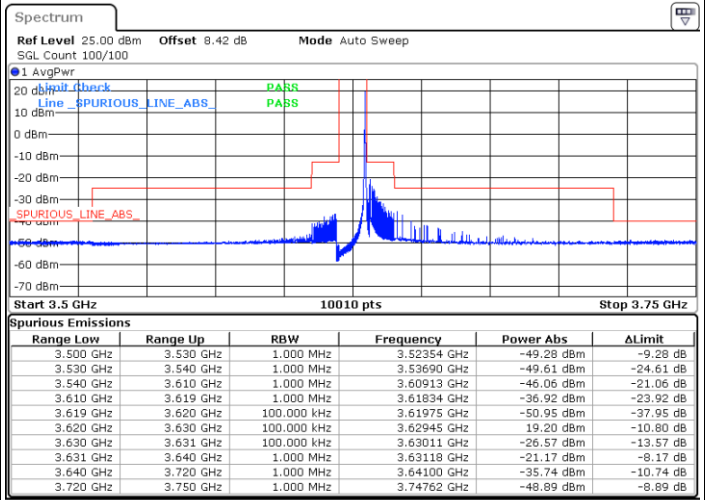
QPSK

MiddleChannel / 1RB0

Middle Channel / 1RBmax



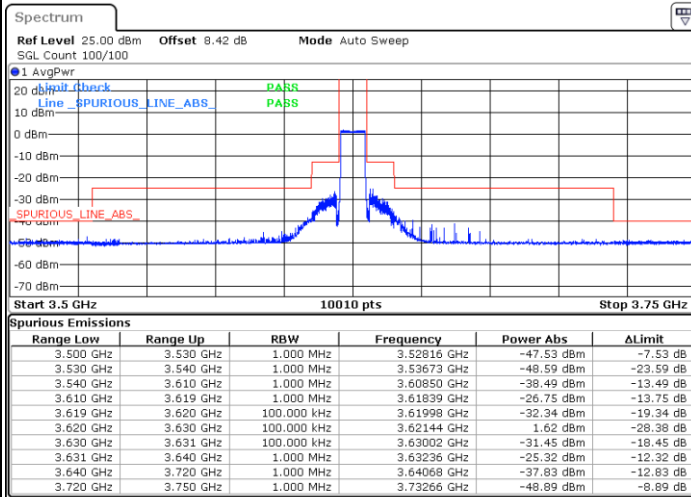
Date: 6 AUG 2022 14:43:14



Date: 6 AUG 2022 14:45:55

Middle Channel / FullRB

N/A



Date: 6 AUG 2022 14:48:35

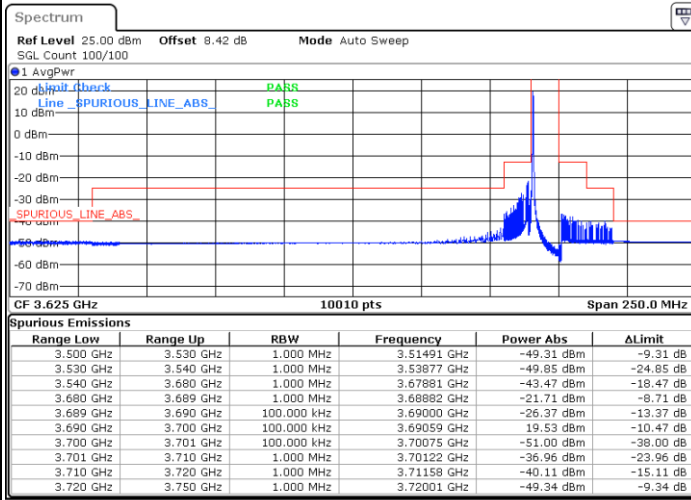


LTE Band 48 / 10MHz

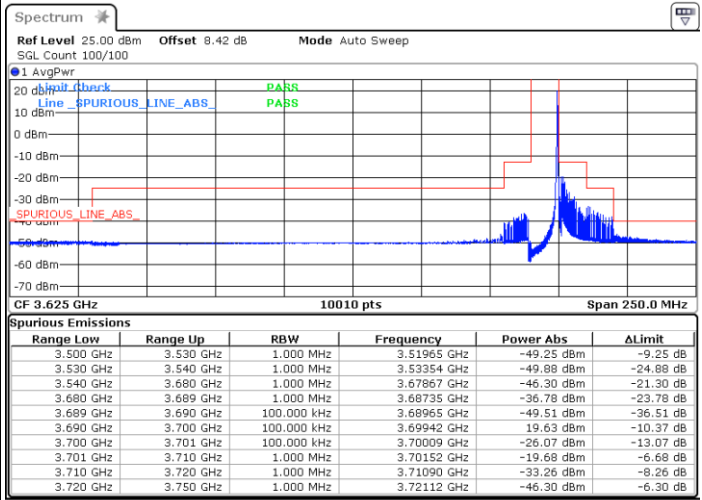
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



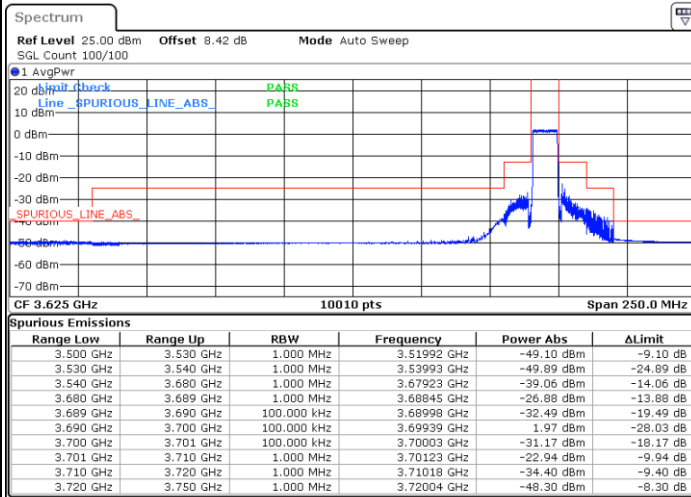
Date: 6 AUG 2022 18:34:02



Date: 6 AUG 2022 16:35:39

Highest Channel / FullIRB

N/A



Date: 6 AUG 2022 18:42:11

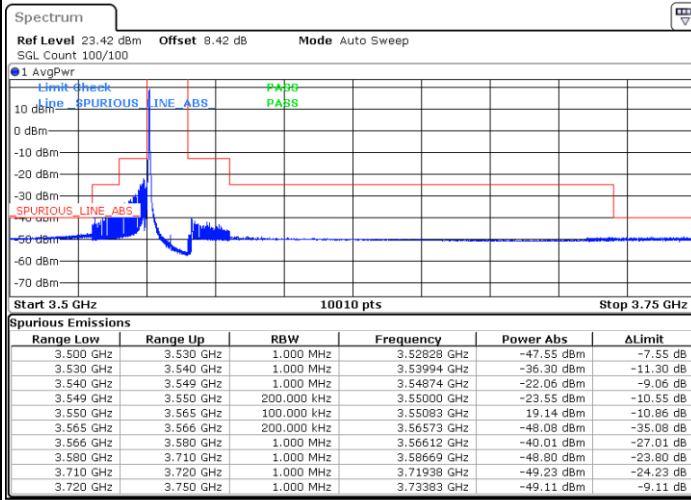


LTE Band 48 / 15MHz

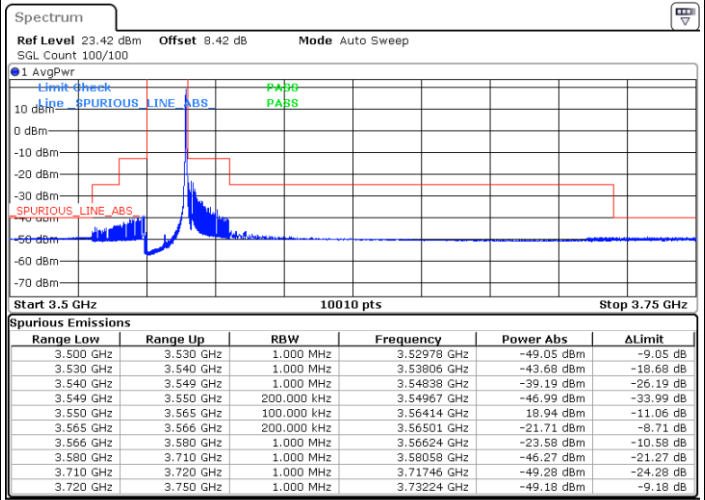
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

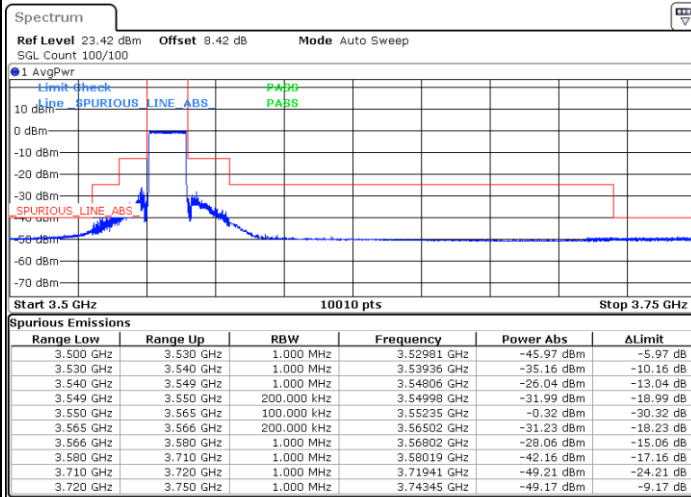


Date: 6 AUG 2022 16:38:34



Date: 6 AUG 2022 16:58:16

Lowest Channel / FullIRB



Date: 6 AUG 2022 16:55:34

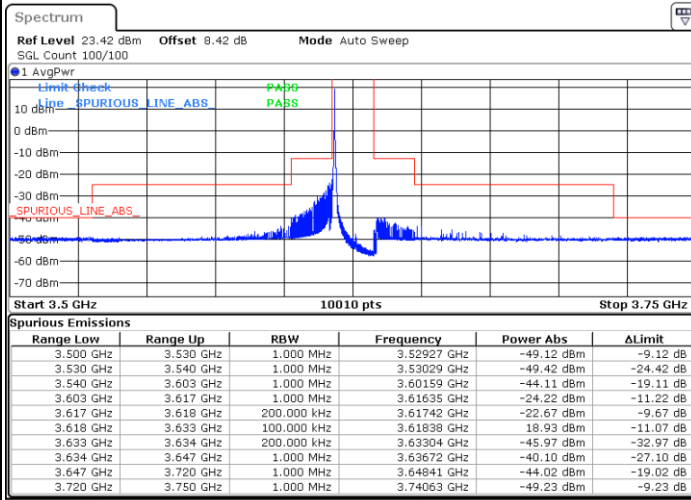


LTE Band 48 / 15MHz

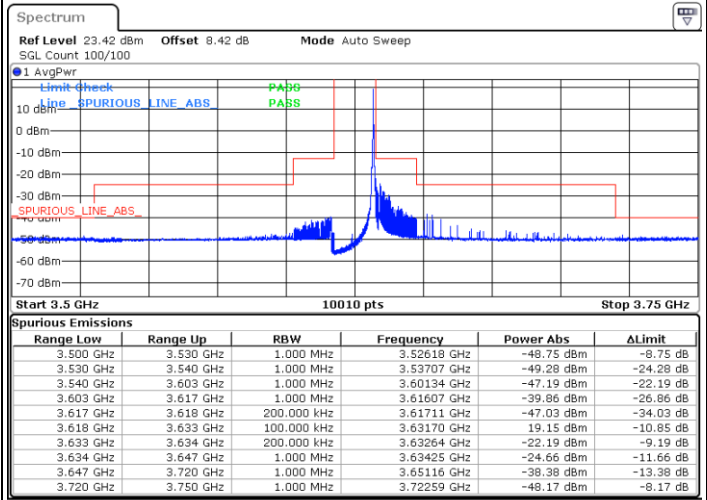
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



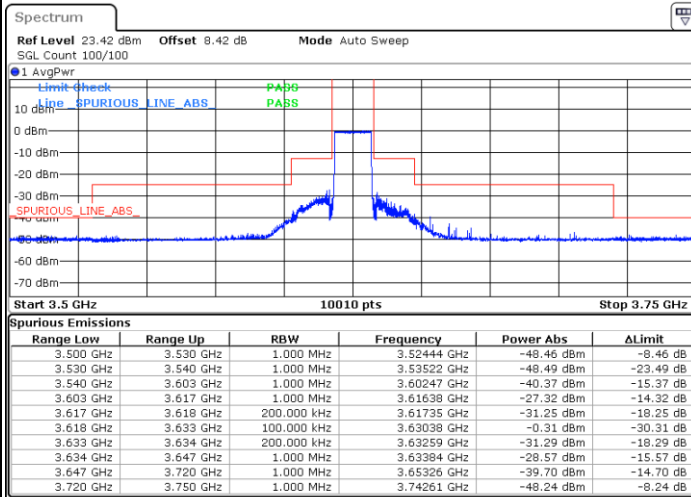
Date: 6 AUG 2022 17:02:18



Date: 6 AUG 2022 17:04:59

Middle Channel / FullRB

N/A



Date: 6 AUG 2022 17:07:40

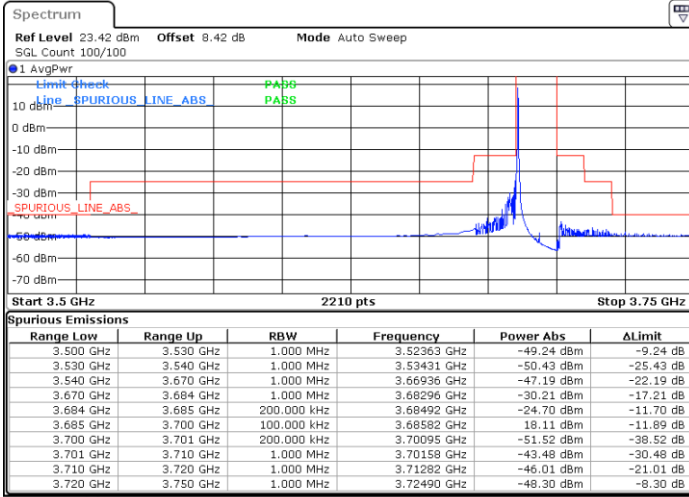


LTE Band 48 / 15MHz

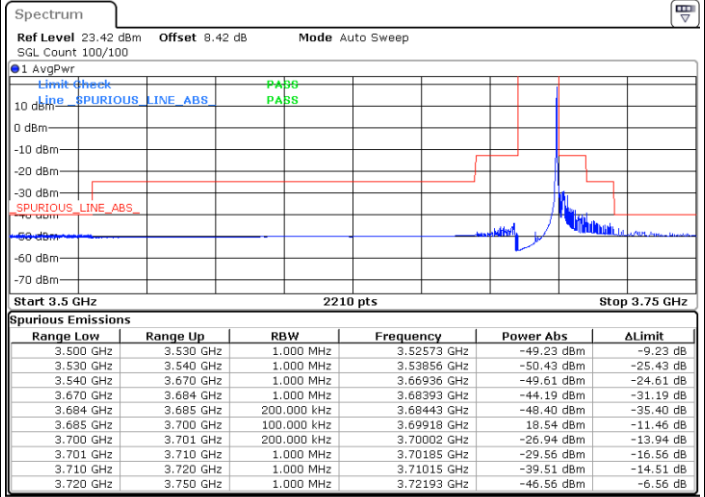
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



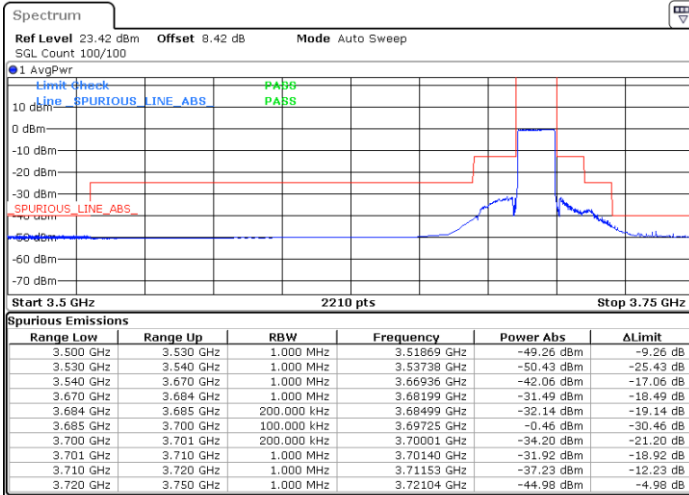
Date: 6 AUG 2022 17:09:01



Date: 6 AUG 2022 17:14:24

Highest Channel / FullIRB

N/A



Date: 6 AUG 2022 17:11:42

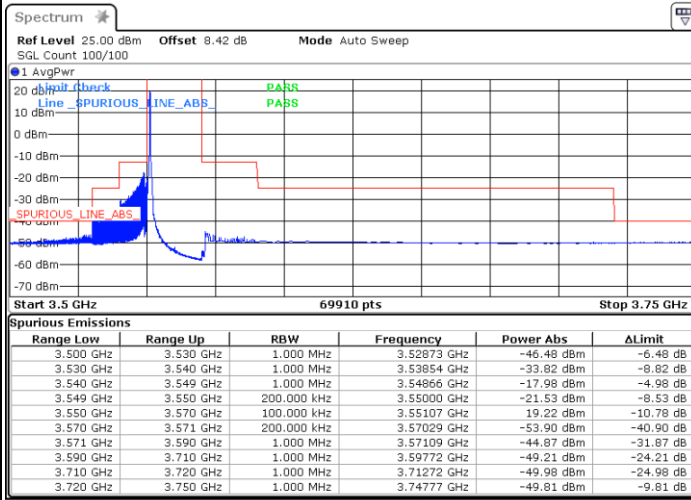


LTE Band 48 / 20MHz

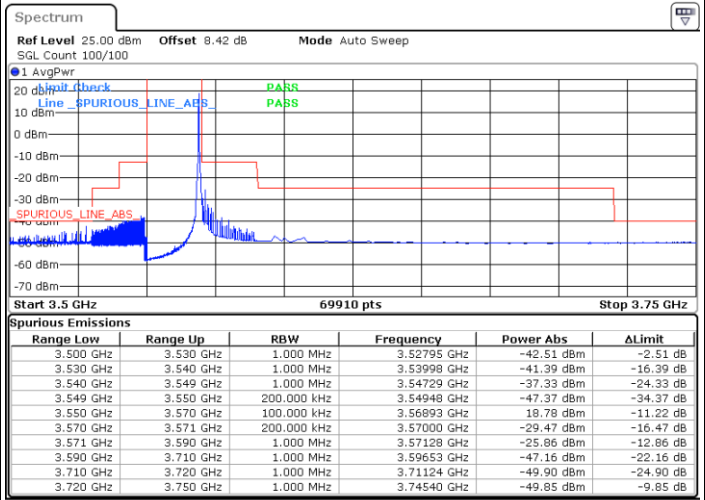
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



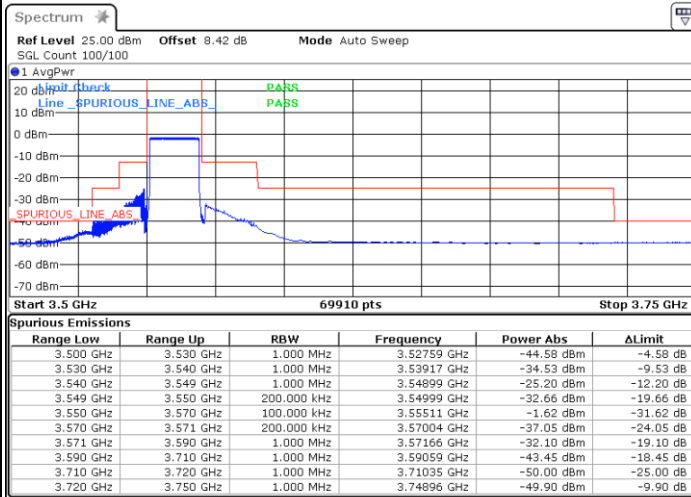
Date: 6 AUG 2022 17:57:43



Date: 6 AUG 2022 17:27:09

Lowest Channel / FullIRB

N/A



Date: 6 AUG 2022 18:03:05

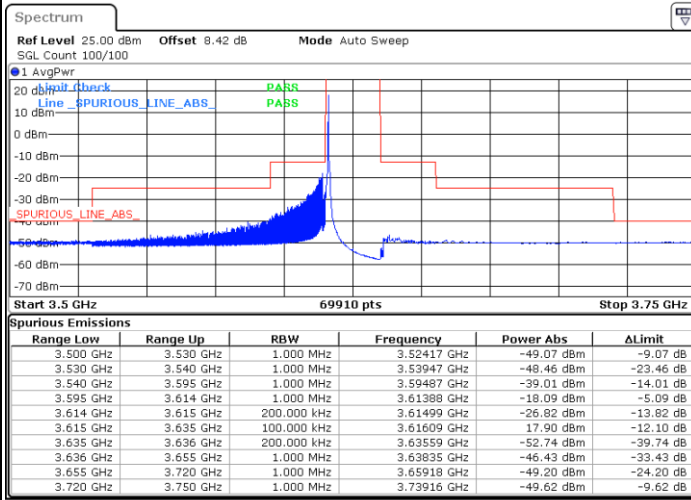


LTE Band 48 / 20MHz

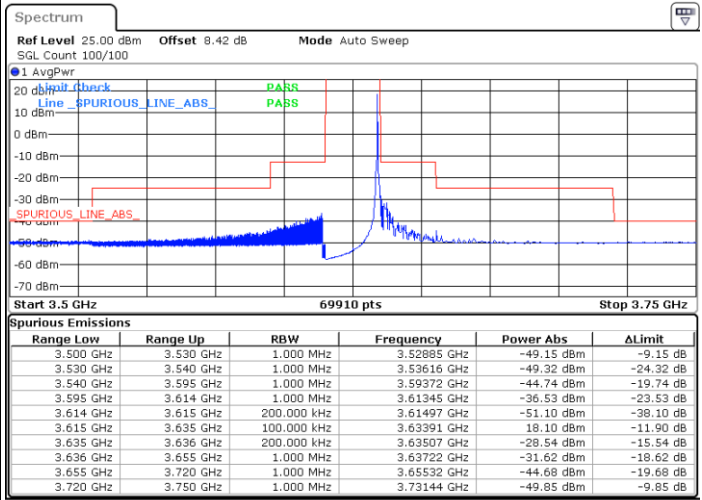
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



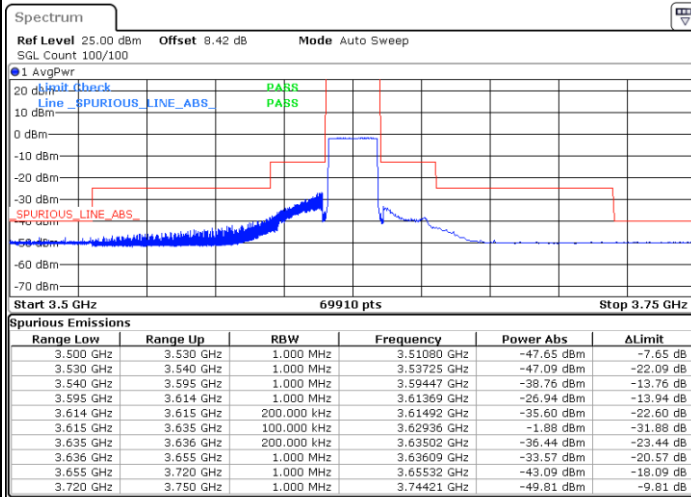
Date: 6 AUG 2022 17:37:14



Date: 6 AUG 2022 17:29:10

Middle Channel / FullRB

N/A



Date: 6 AUG 2022 17:33:12

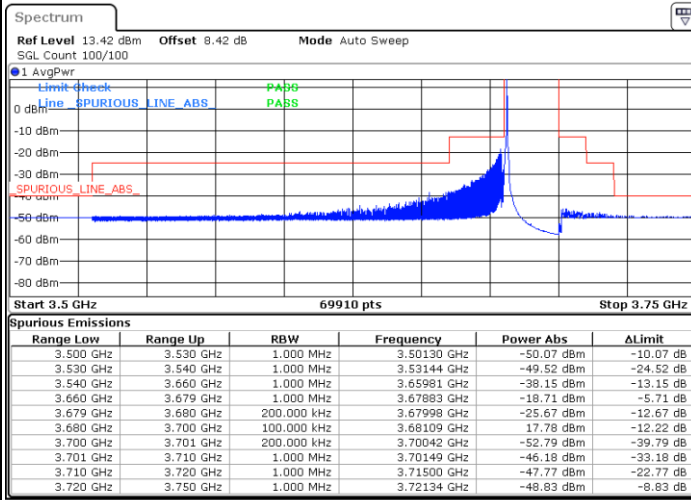


LTE Band 48 / 20MHz

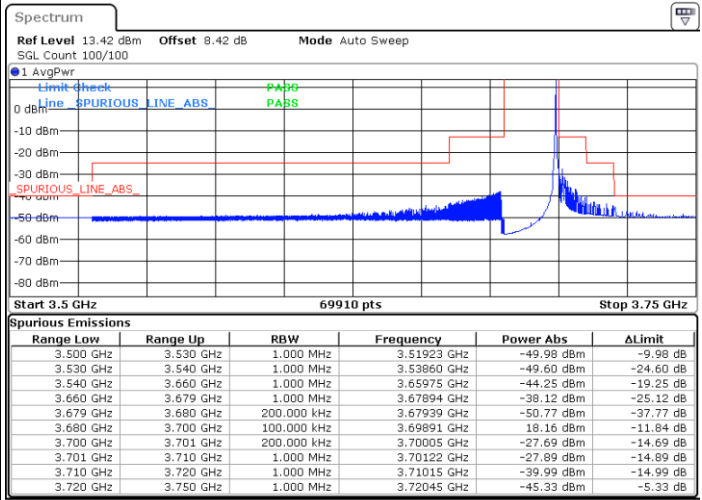
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



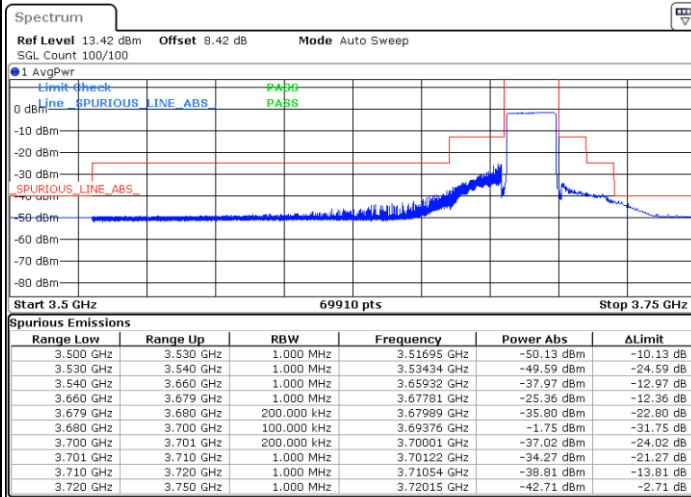
Date: 6 AUG 2022 17:47:22



Date: 6 AUG 2022 17:51:26

Highest Channel / FullIRB

N/A



Date: 6 AUG 2022 17:43:19

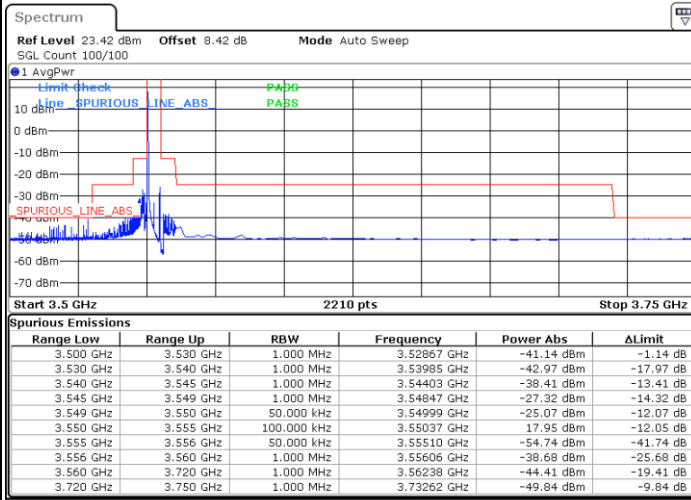


LTE Band 48 / 5MHz

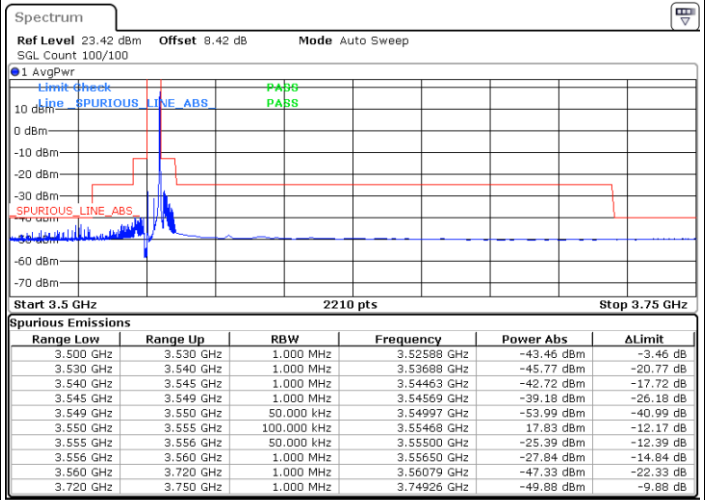
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



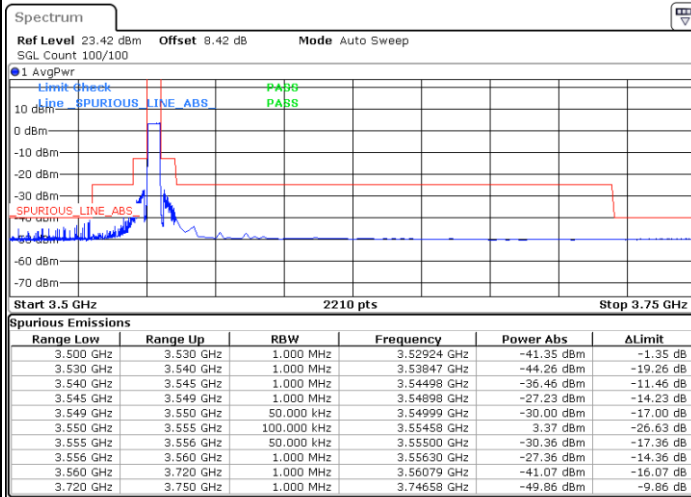
Date: 6 AUG 2022 18:18:42



Date: 6 AUG 2022 14:14:54

Lowest Channel / FullRB

N/A



Date: 6 AUG 2022 18:16:48

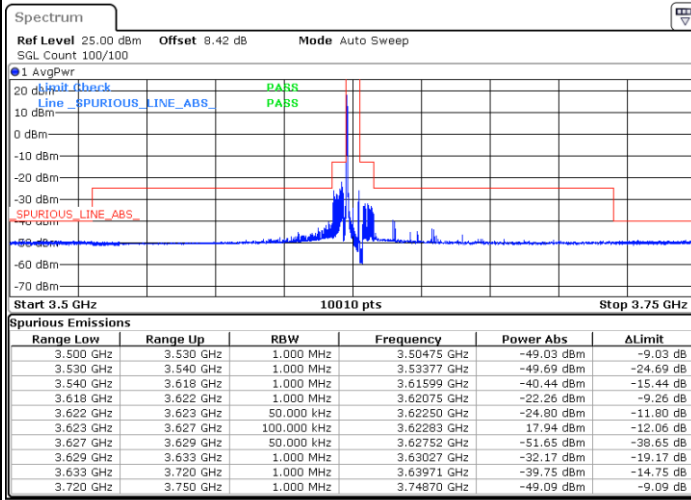


LTE Band 48 / 5MHz

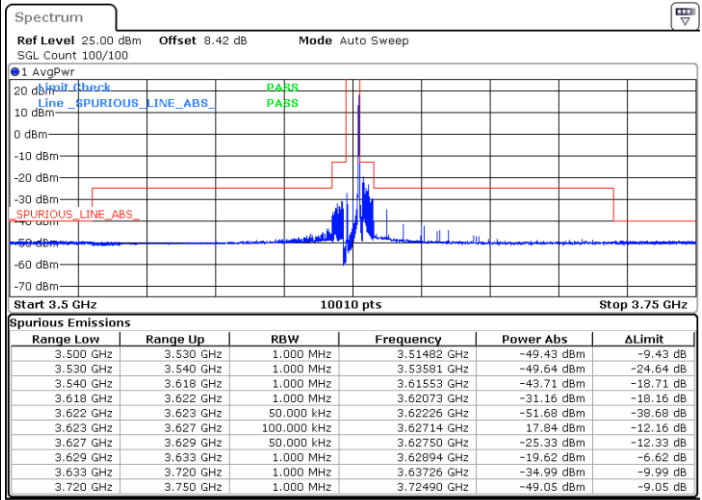
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



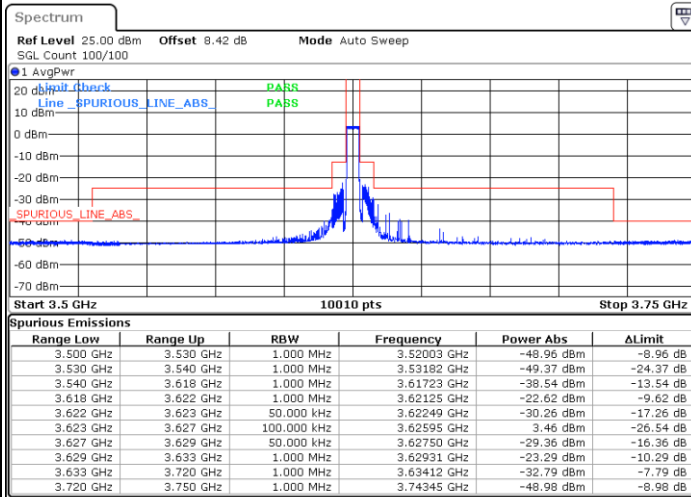
Date: 6 AUG 2022 14:18:57



Date: 6 AUG 2022 14:21:38

Middle Channel / FullRB

N/A



Date: 6 AUG 2022 14:24:19

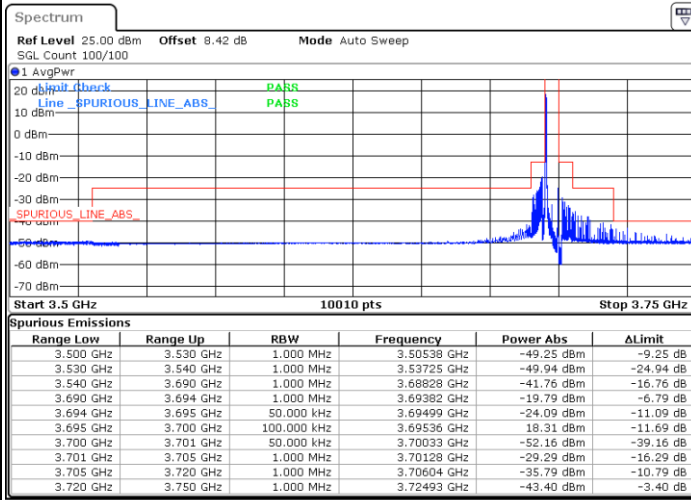


LTE Band 48 / 5MHz

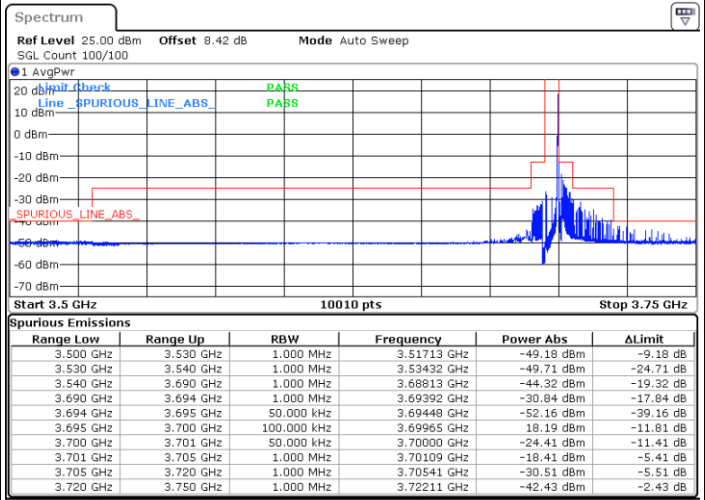
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



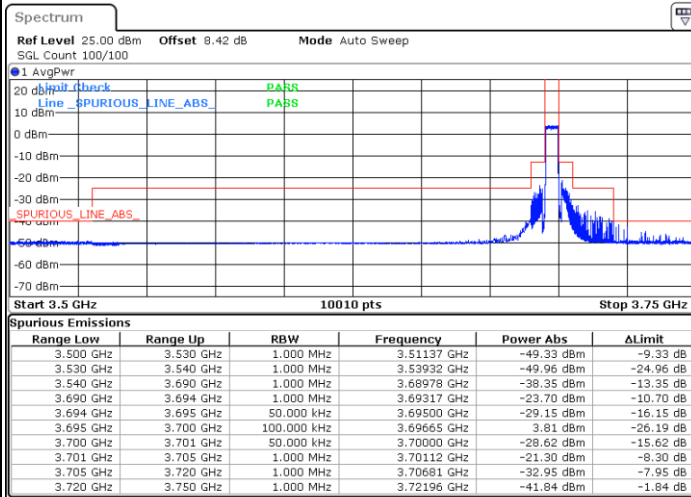
Date: 6 AUG 2022 14:28:21



Date: 6 AUG 2022 14:33:46

Highest Channel / FullRB

N/A



Date: 6 AUG 2022 14:31:03

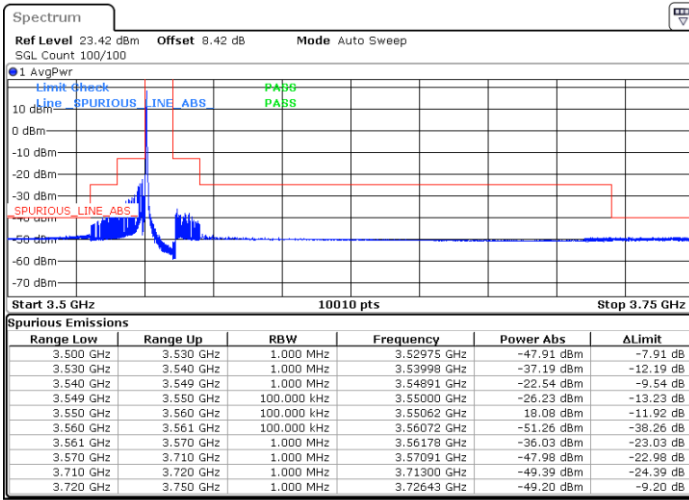


LTE Band 48 / 10MHz

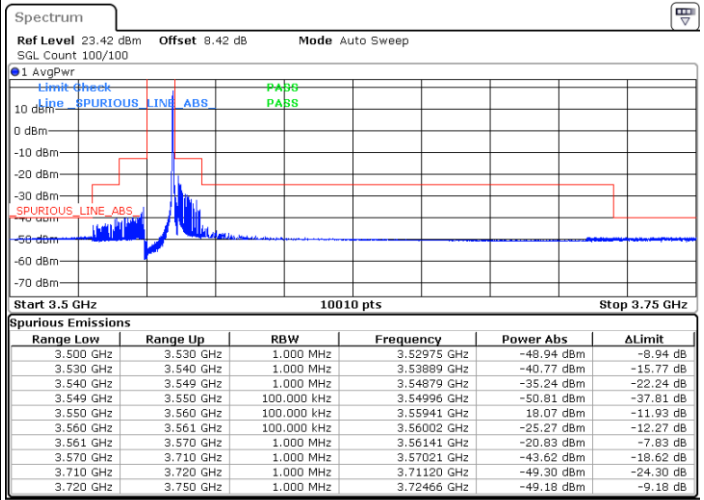
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



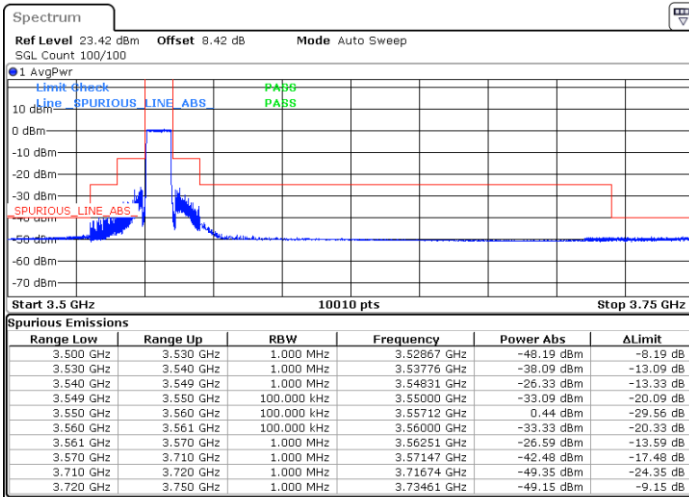
Date: 6 AUG 2022 14:35:07



Date: 6 AUG 2022 14:37:50

Lowest Channel / FullIRB

N/A



Date: 6 AUG 2022 14:40:32

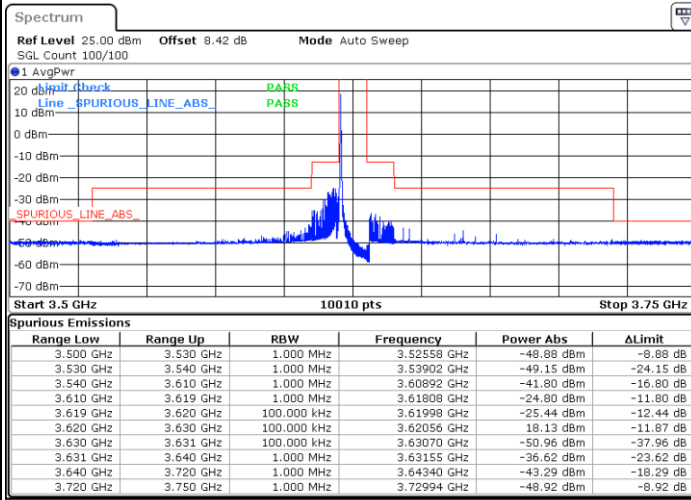


LTE Band 48 / 10MHz

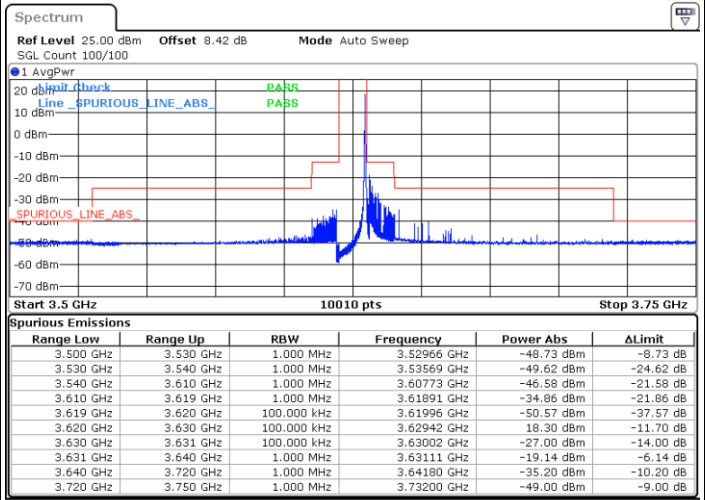
16QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



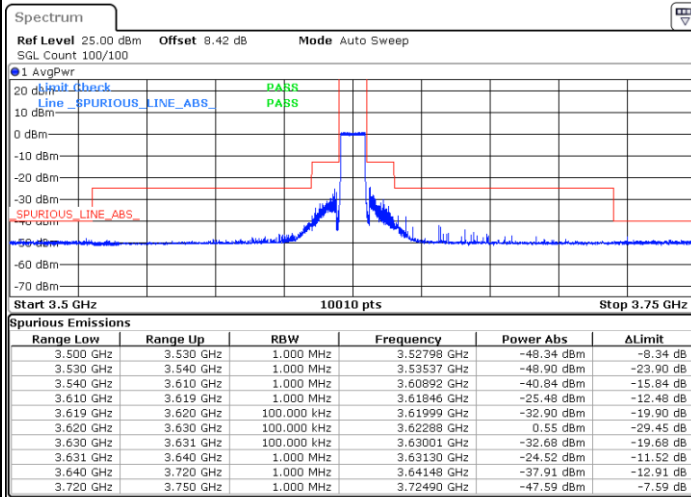
Date: 6 AUG 2022 14:44:34



Date: 6 AUG 2022 14:47:15

Middle Channel / FullRB

N/A



Date: 6 AUG 2022 14:49:56

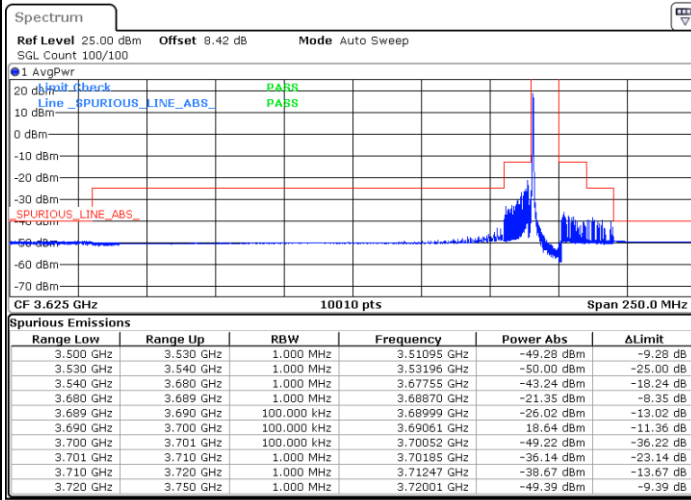


LTE Band 48 / 10MHz

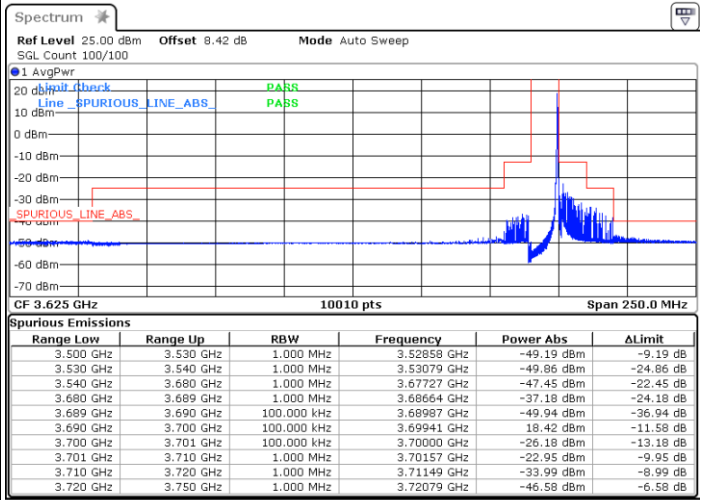
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



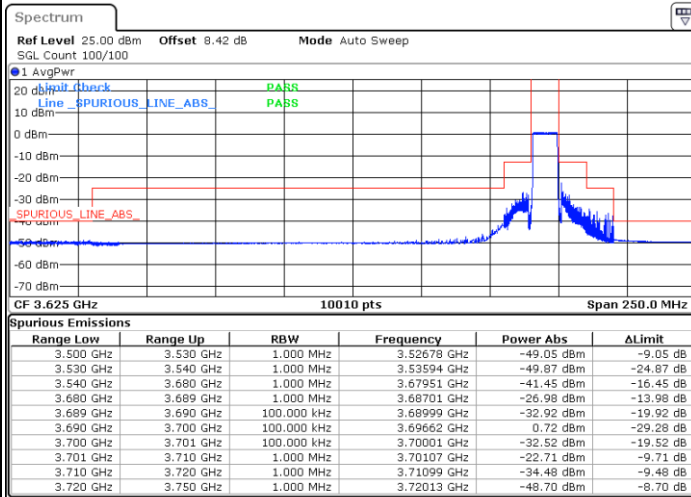
Date: 6 AUG 2022 18:38:40



Date: 6 AUG 2022 16:33:38

Highest Channel / FullIRB

N/A



Date: 6 AUG 2022 18:47:44

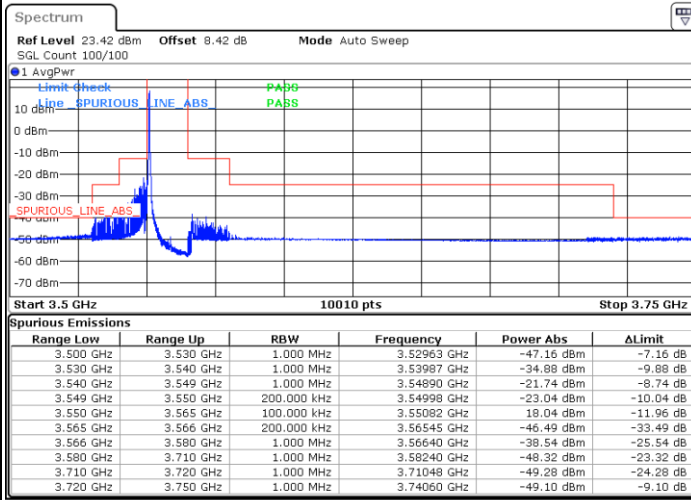


LTE Band 48 / 15MHz

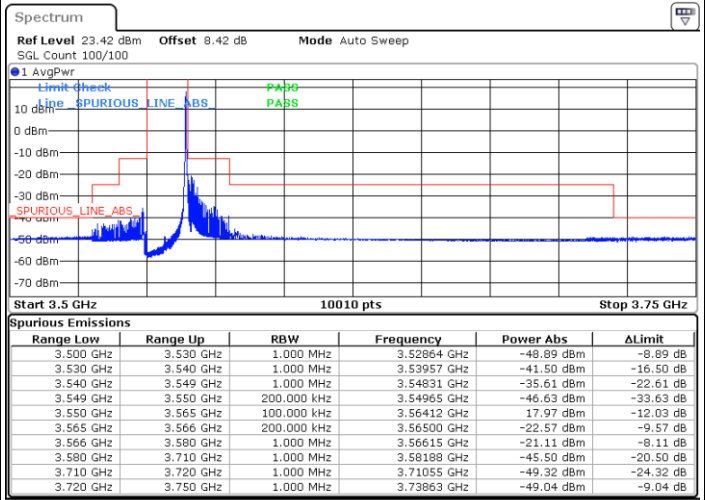
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



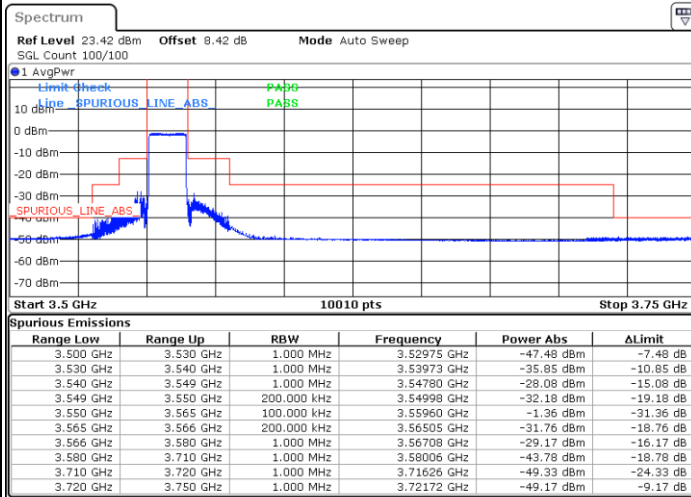
Date: 6 AUG 2022 16:54:13



Date: 6 AUG 2022 16:59:37

Lowest Channel / FullIRB

N/A



Date: 6 AUG 2022 16:56:55

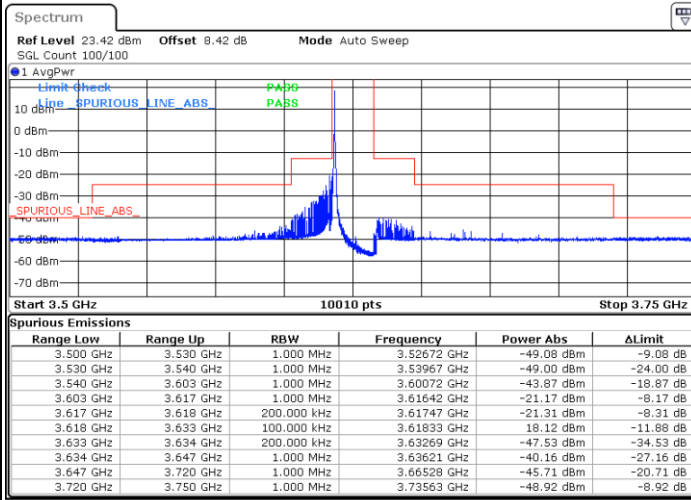


LTE Band 48 / 15MHz

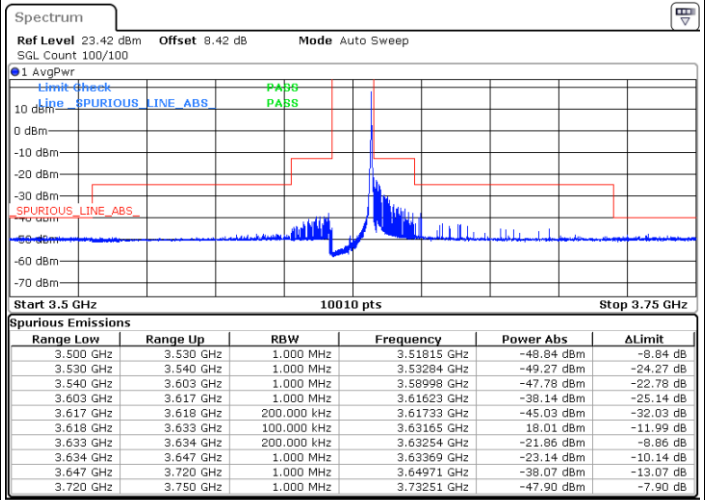
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



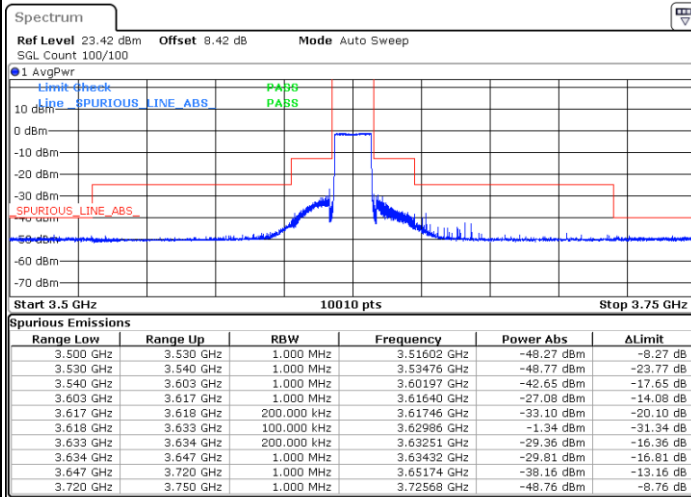
Date: 6 AUG 2022 17:00:58



Date: 6 AUG 2022 17:03:39

Middle Channel / FullRB

N/A



Date: 6 AUG 2022 17:06:20

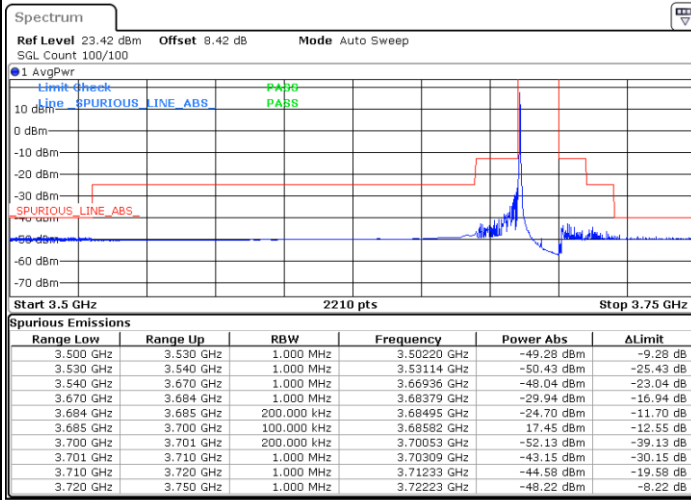


LTE Band 48 / 15MHz

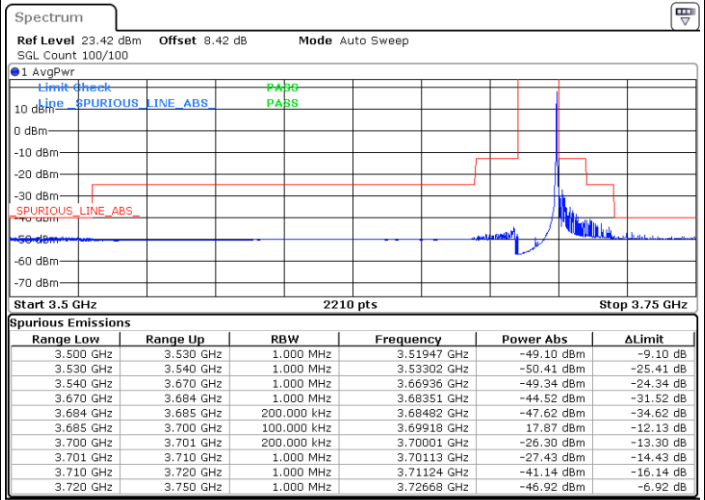
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



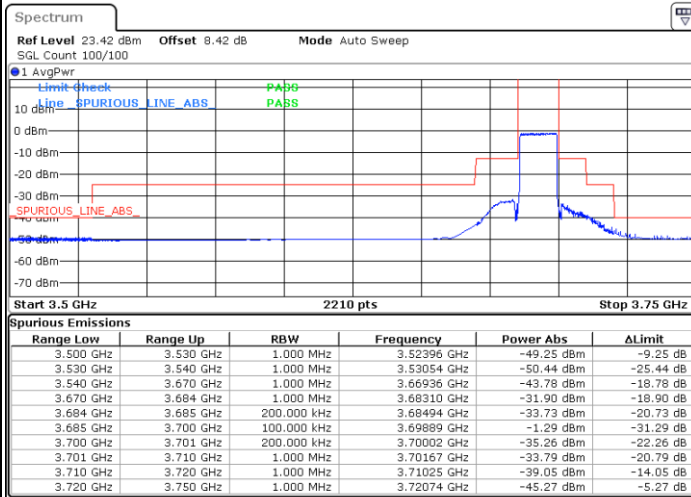
Date: 6 AUG 2022 17:10:21



Date: 6 AUG 2022 17:15:45

Highest Channel / FullIRB

N/A



Date: 6 AUG 2022 17:13:03

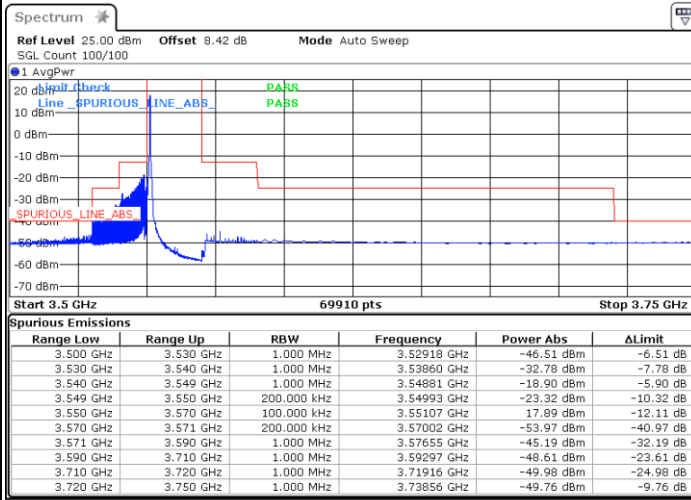


LTE Band 48 / 20MHz

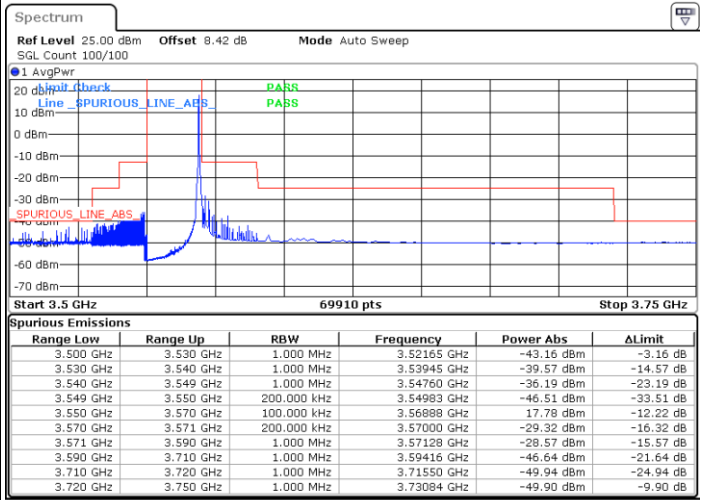
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



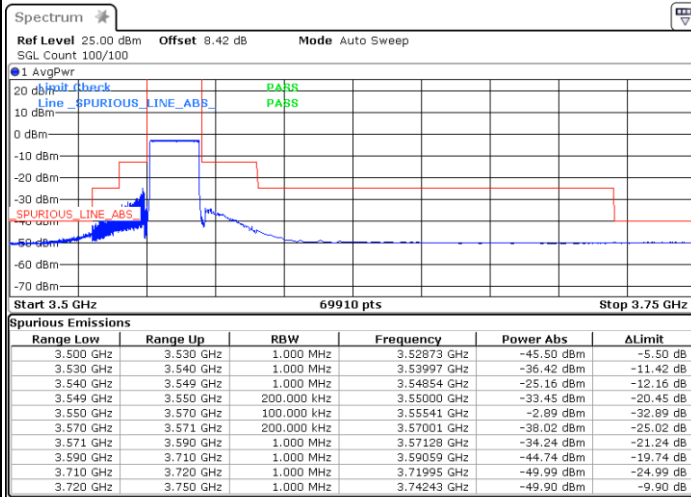
Date: 6 AUG 2022 17:59:57



Date: 6 AUG 2022 17:25:07

Lowest Channel / FullIRB

Lowest Channel / FullIRB



Date: 6 AUG 2022 18:06:10

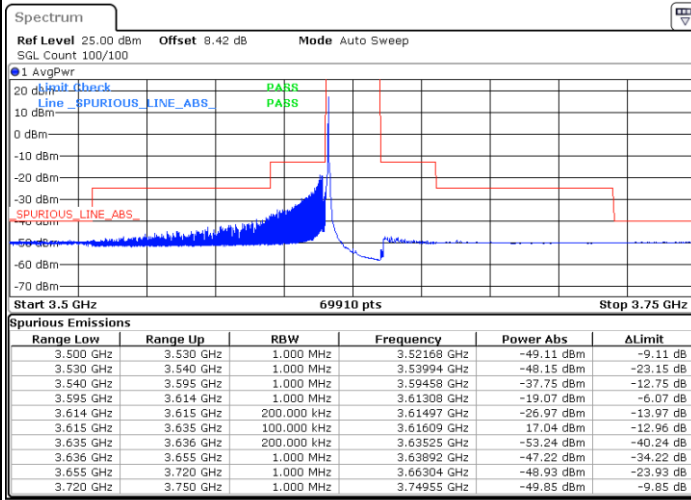


LTE Band 48 / 20MHz

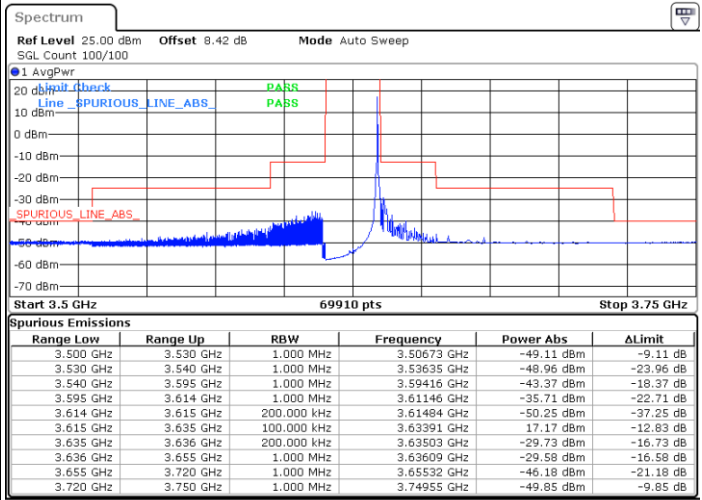
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



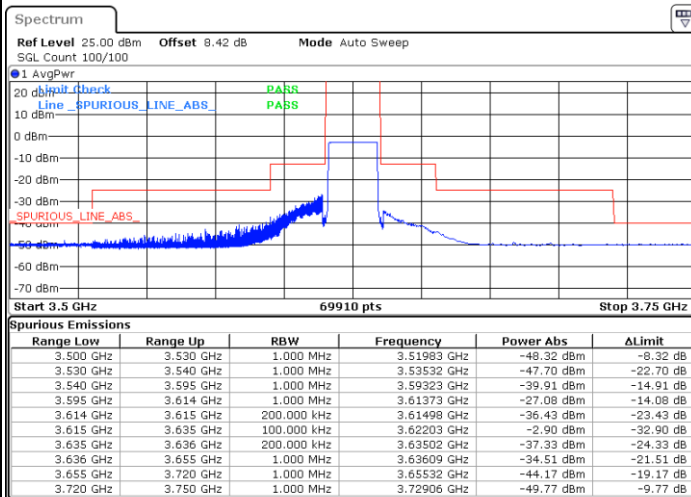
Date: 6 AUG 2022 17:39:15



Date: 6 AUG 2022 17:31:11

Middle Channel / FullRB

N/A



Date: 6 AUG 2022 17:35:13

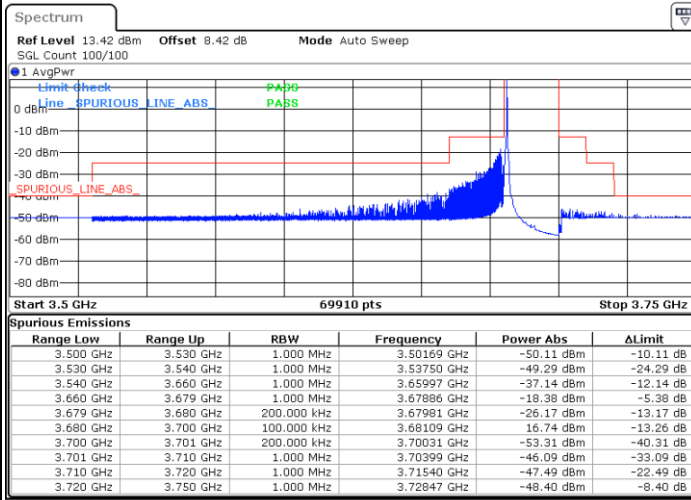


LTE Band 48 / 20MHz

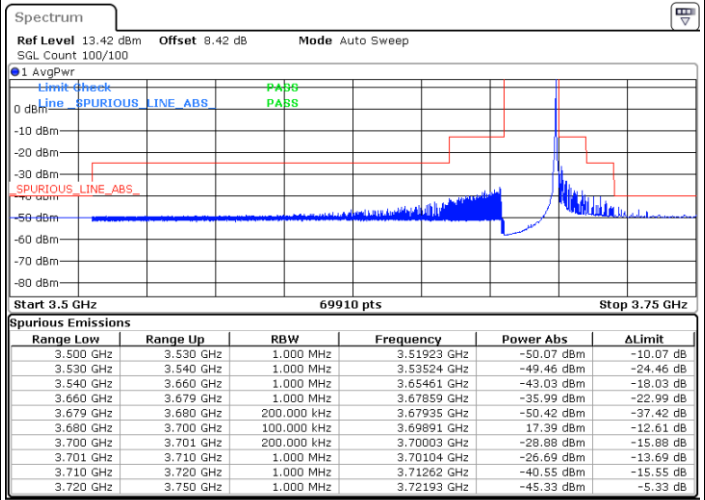
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



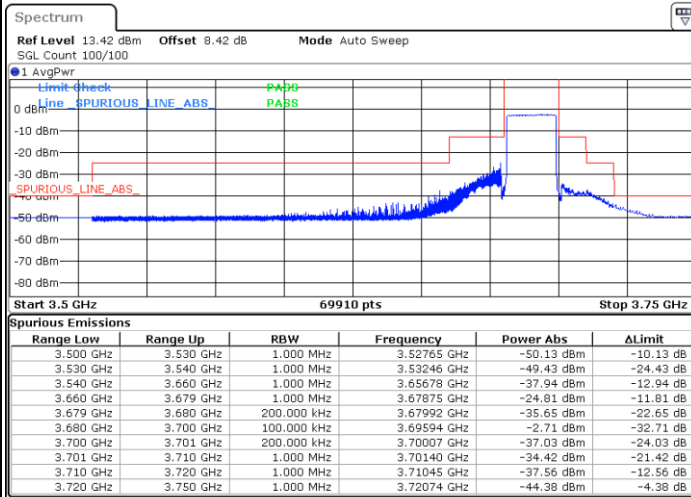
Date: 6 AUG 2022 17:45:21



Date: 6 AUG 2022 17:49:24

Highest Channel / FullIRB

N/A



Date: 6 AUG 2022 17:41:17



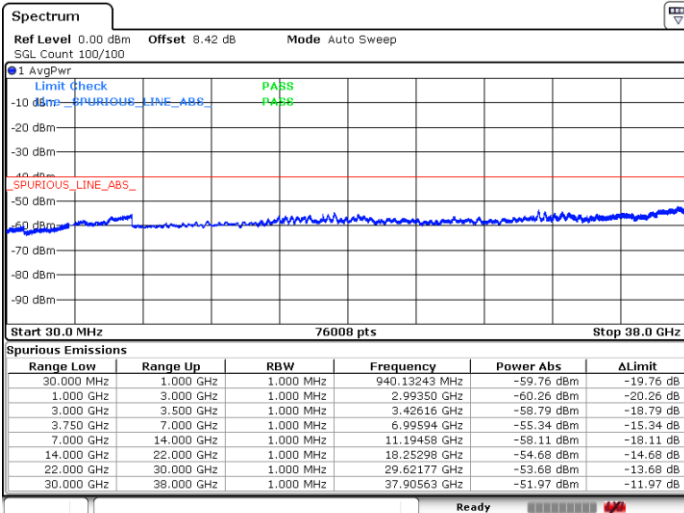
Conducted Spurious Emission

LTE Band 48 / 5MHz

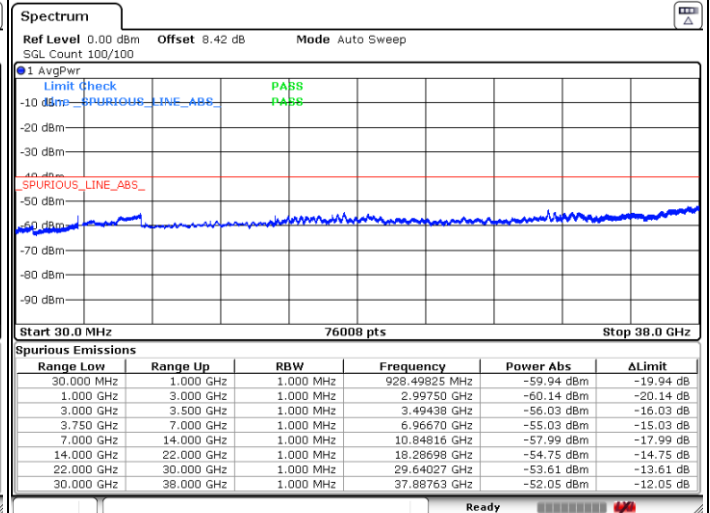
QPSK / 1RB0

Lowest Channel

Middle Channel

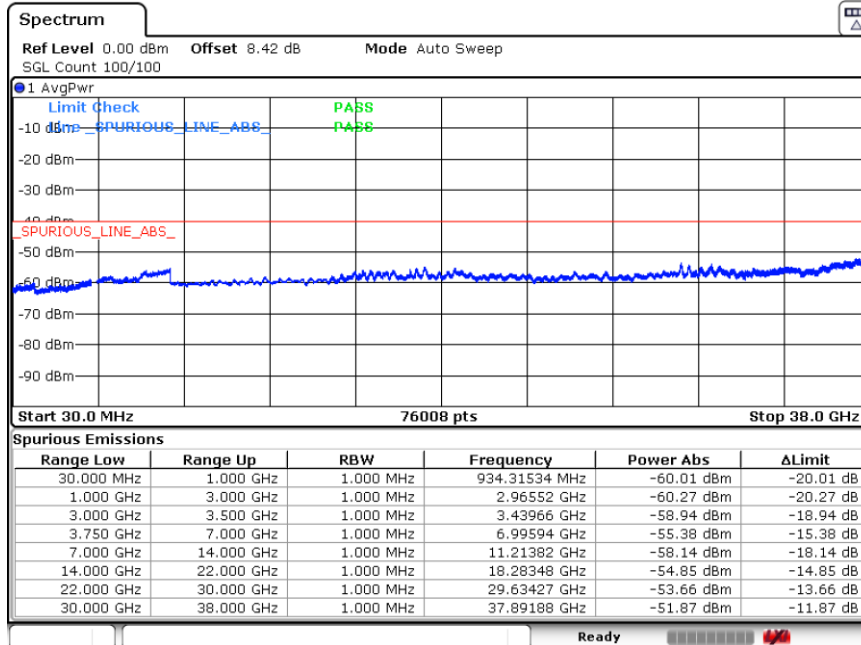


Date: 4.AUG.2022 13:33:31



Date: 4.AUG.2022 13:31:10

Highest Channel



Date: 4.AUG.2022 13:32:14



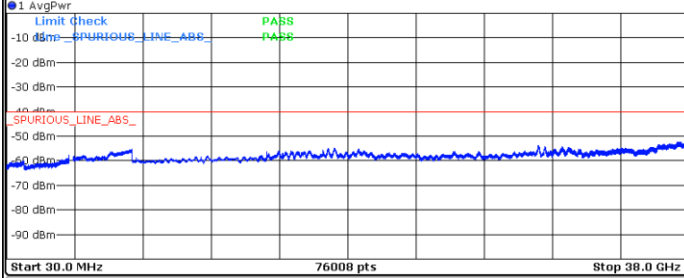
LTE Band 48 / 10MHz

QPSK / 1RB0

Lowest Channel

Middle Channel

Spectrum

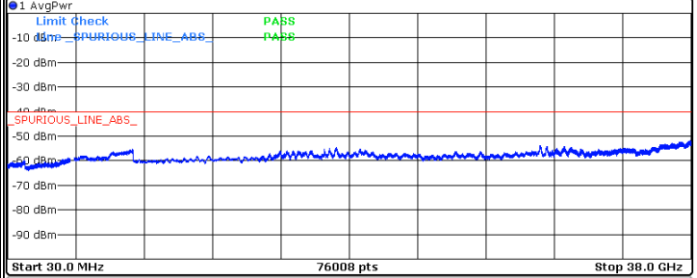
Ref Level 0.00 dBm Offset 8.42 dB Mode Auto Sweep
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	957.58371 MHz	-60.05 dBm	-20.05 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96852 GHz	-60.05 dBm	-20.05 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.49013 GHz	-57.61 dBm	-17.61 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.99269 GHz	-55.45 dBm	-15.45 dB
7.000 GHz	14.000 GHz	1.000 MHz	11.19108 GHz	-58.05 dBm	-18.05 dB
14.000 GHz	22.000 GHz	1.000 MHz	18.27148 GHz	-54.87 dBm	-14.87 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.63277 GHz	-53.80 dBm	-13.80 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.87738 GHz	-51.99 dBm	-11.99 dB

Ready

Date: 4.AUG.2022 13:36:58

Spectrum

Ref Level 0.00 dBm Offset 8.42 dB Mode Auto Sweep
SGL Count 100/100

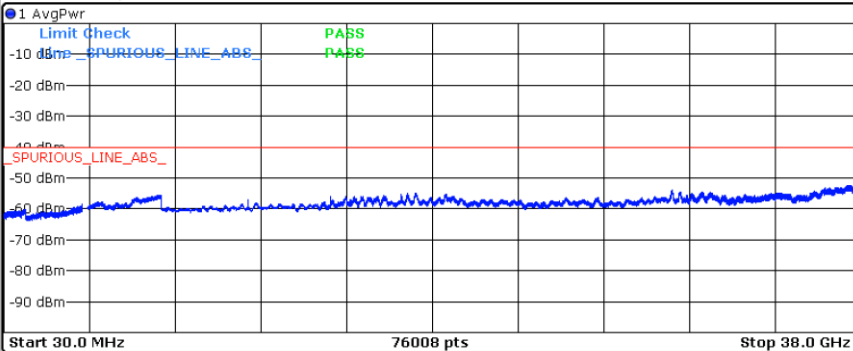
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	934.31534 MHz	-59.90 dBm	-19.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97851 GHz	-60.31 dBm	-20.31 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.38918 GHz	-58.78 dBm	-18.78 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.95046 GHz	-55.31 dBm	-15.31 dB
7.000 GHz	14.000 GHz	1.000 MHz	11.20857 GHz	-57.98 dBm	-17.98 dB
14.000 GHz	22.000 GHz	1.000 MHz	18.28198 GHz	-54.68 dBm	-14.68 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.63327 GHz	-53.77 dBm	-13.77 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.95963 GHz	-51.67 dBm	-11.67 dB

Ready

Date: 4.AUG.2022 13:34:41

Highest Channel

Spectrum

Ref Level 0.00 dBm Offset 8.42 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	933.34583 MHz	-60.22 dBm	-20.22 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98951 GHz	-60.35 dBm	-20.35 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.47714 GHz	-58.41 dBm	-18.41 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.99756 GHz	-55.51 dBm	-15.51 dB
7.000 GHz	14.000 GHz	1.000 MHz	10.86216 GHz	-57.05 dBm	-17.05 dB
14.000 GHz	22.000 GHz	1.000 MHz	18.27148 GHz	-54.85 dBm	-14.85 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.63027 GHz	-53.87 dBm	-13.87 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.88463 GHz	-51.95 dBm	-11.95 dB

Ready

Date: 4.AUG.2022 13:35:51

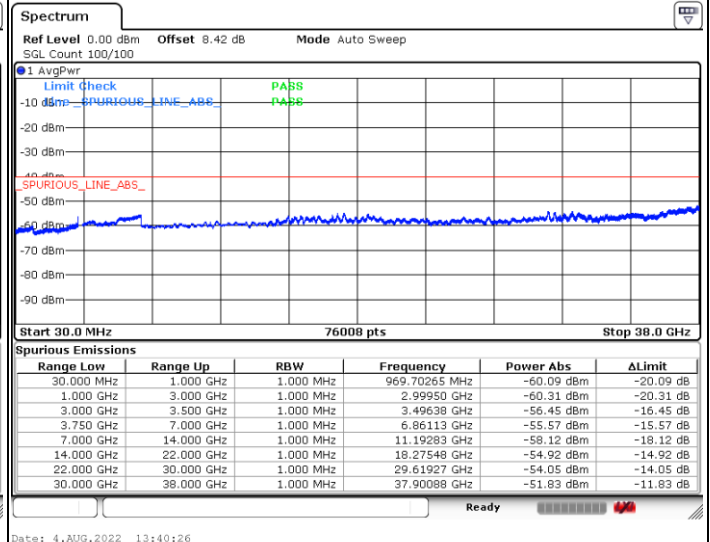
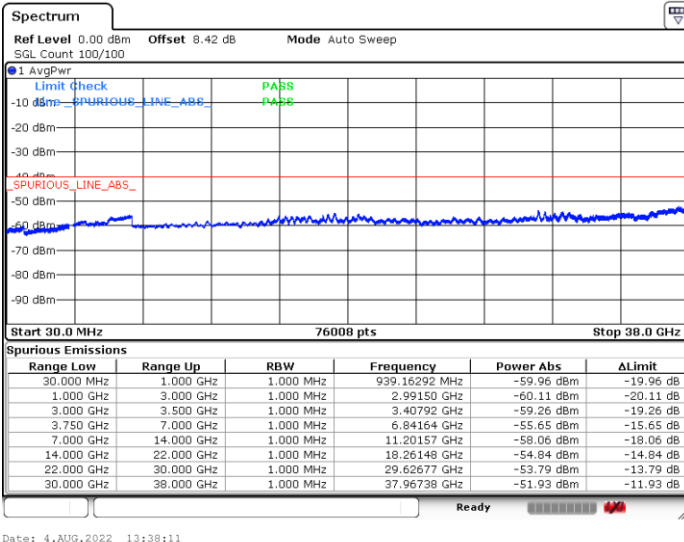


LTE Band 48 / 15MHz

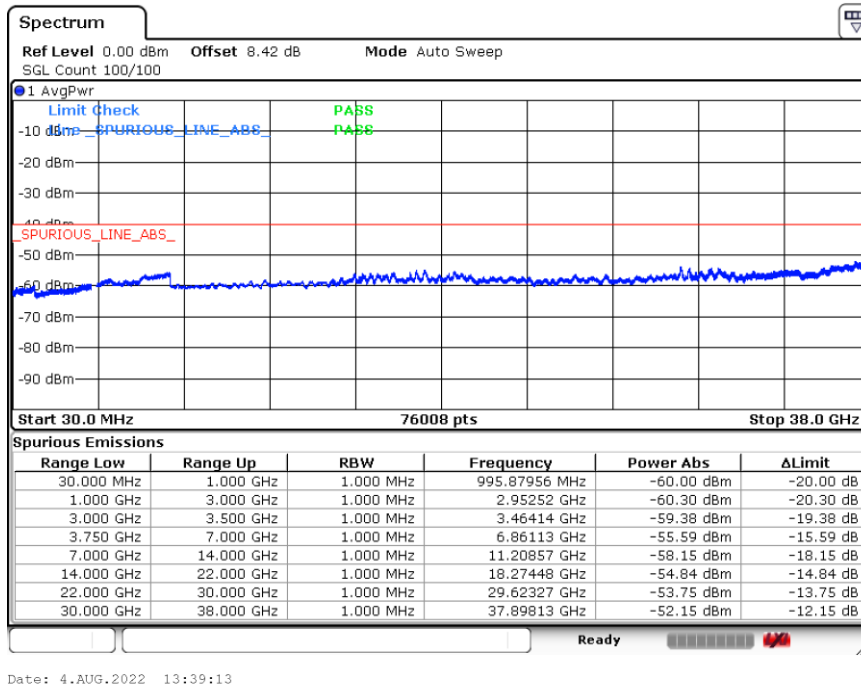
QPSK / 1RB0

Lowest Channel

Middle Channel



Highest Channel



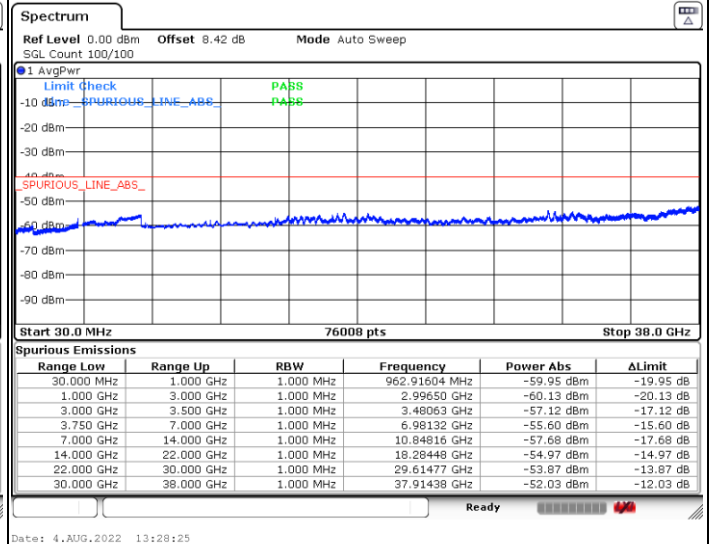
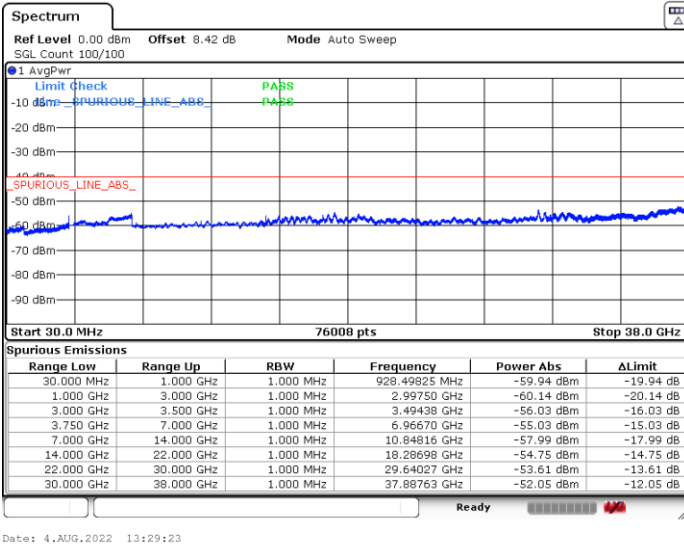


LTE Band 48 / 20MHz

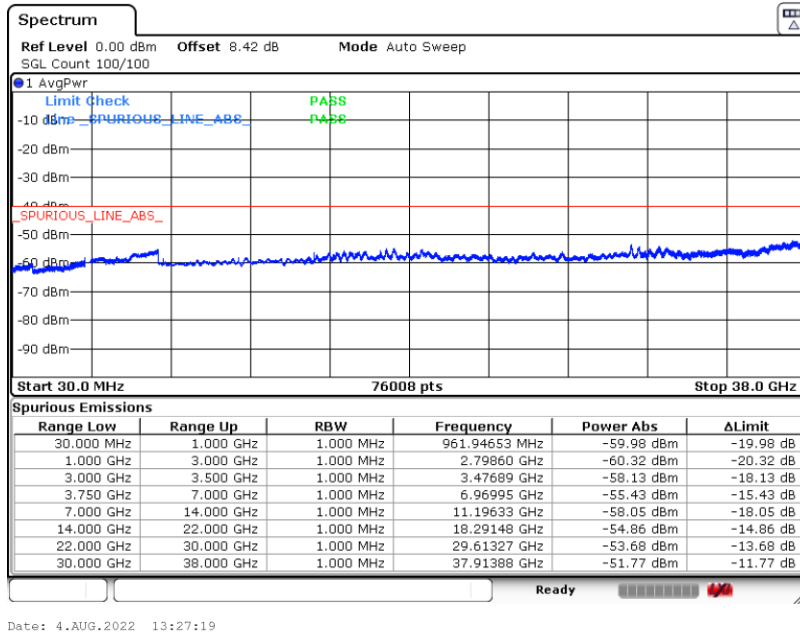
QPSK / 1RB0

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	0.0032	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.2 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 zhuo	Temperature :	22~23°C
		Relative Humidity :	41~42%

LTE Band 48 / 20MHz / QPSK								
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	7230	-42.91	-40	-2.91	-54.37	2.84	14.30	H
	10848	-45.34	-40	-5.34	-55.28	3.49	13.43	H
	14466	-53.59	-40	-13.59	-63.83	3.85	14.09	H
	7230	-46.71	-40	-6.71	-58.17	2.84	14.30	V
	10848	-45.86	-40	-5.86	-55.80	3.49	13.43	V
	14466	-54.85	-40	-14.85	-65.09	3.85	14.09	V

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