

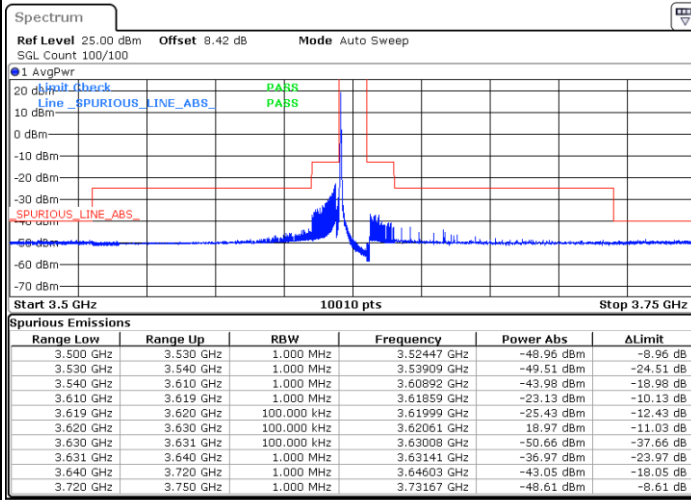


LTE Band 48 / 10MHz

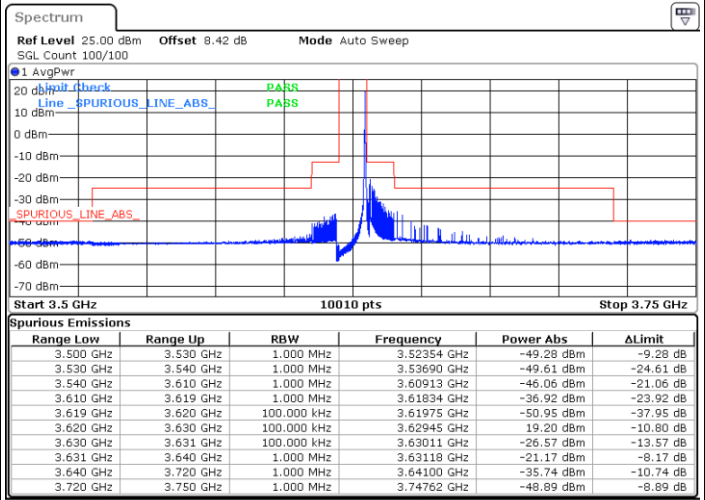
QPSK

MiddleChannel / 1RB0

Middle Channel / 1RBmax



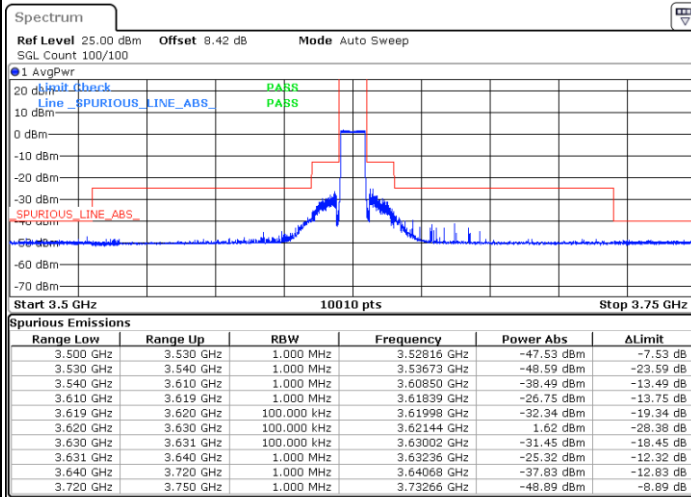
Date: 6 AUG 2022 14:43:14



Date: 6 AUG 2022 14:45:55

Middle Channel / FullRB

N/A



Date: 6 AUG 2022 14:48:35

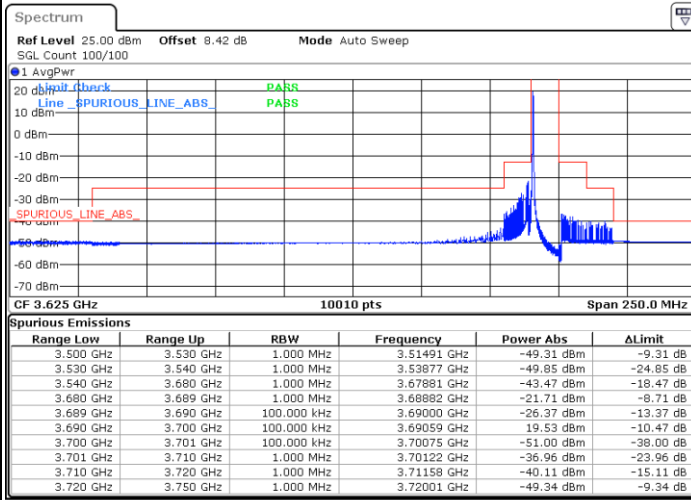


LTE Band 48 / 10MHz

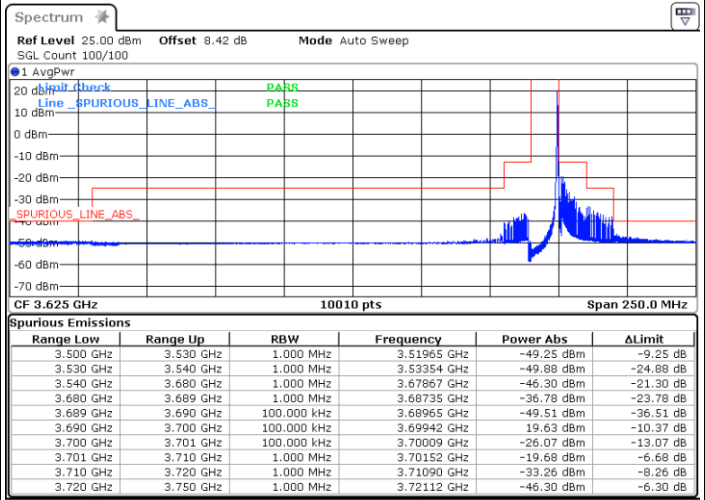
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



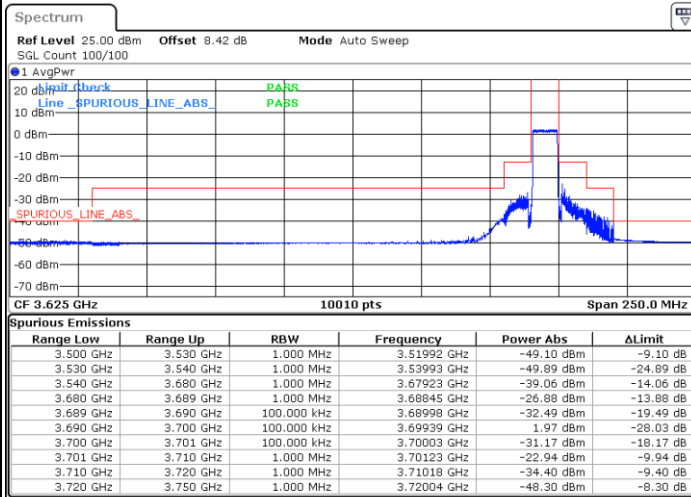
Date: 6 AUG 2022 18:34:02



Date: 6 AUG 2022 16:35:39

Highest Channel / FullIRB

N/A



Date: 6 AUG 2022 18:42:11

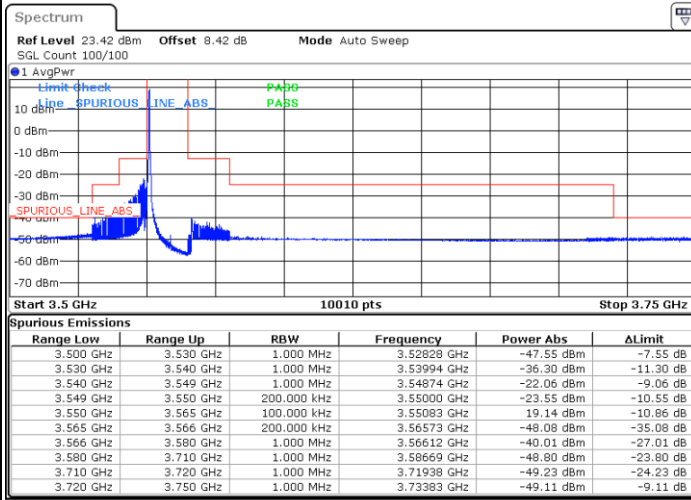


LTE Band 48 / 15MHz

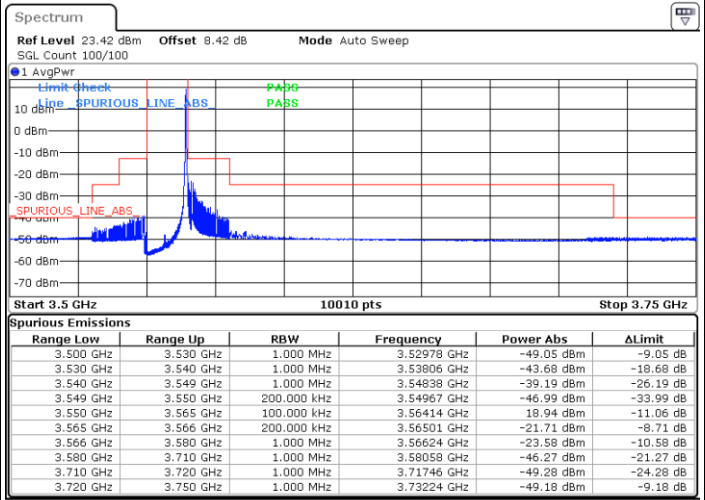
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

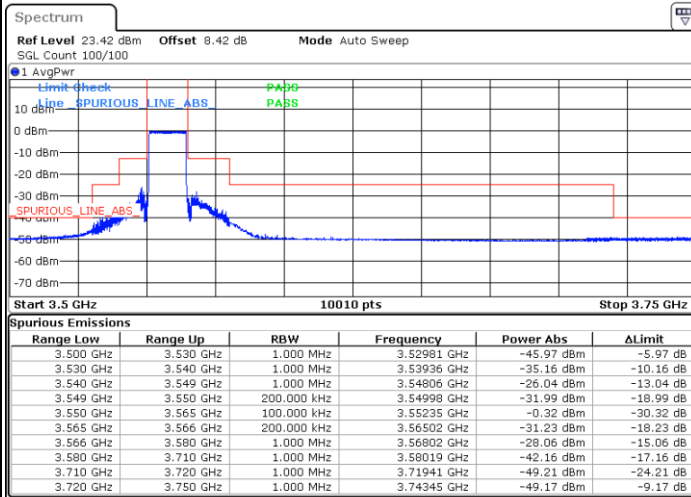


Date: 6 AUG 2022 16:38:34



Date: 6 AUG 2022 16:58:16

Lowest Channel / FullRB



Date: 6 AUG 2022 16:55:34

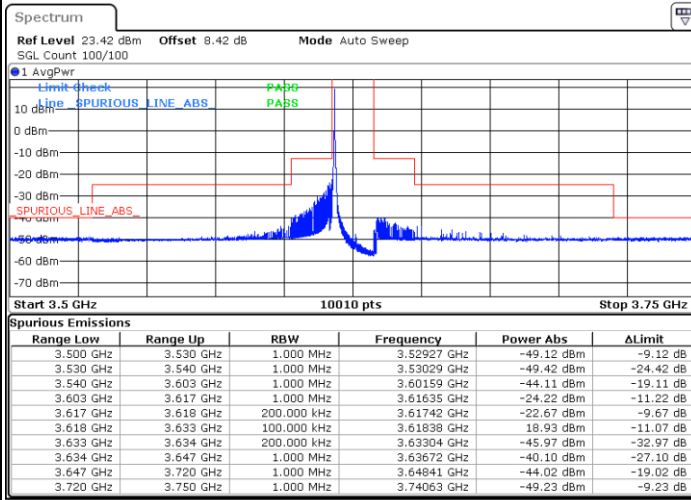


LTE Band 48 / 15MHz

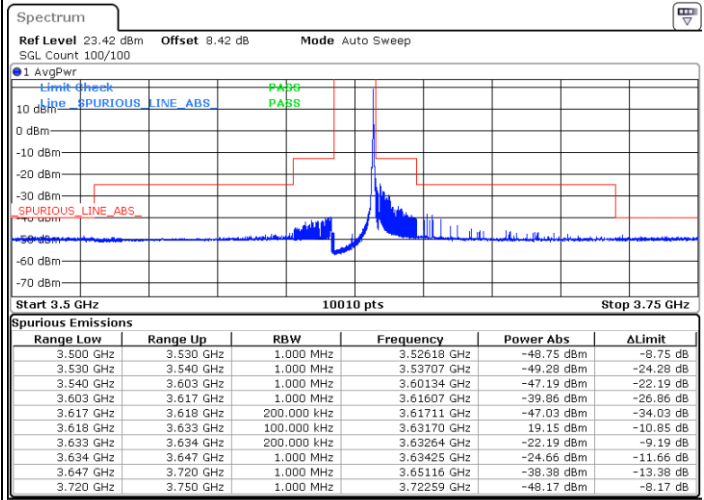
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



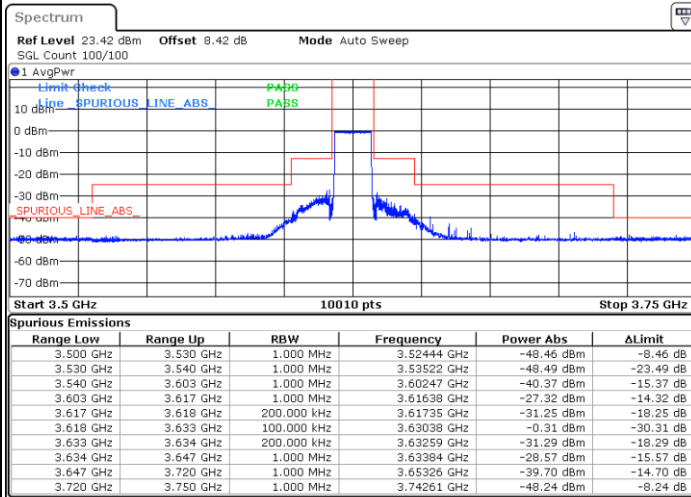
Date: 6 AUG 2022 17:02:18



Date: 6 AUG 2022 17:04:59

Middle Channel / FullRB

N/A



Date: 6 AUG 2022 17:07:40

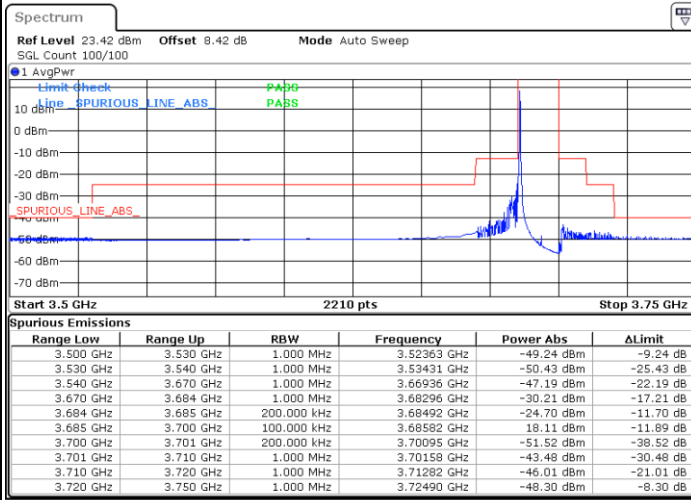


LTE Band 48 / 15MHz

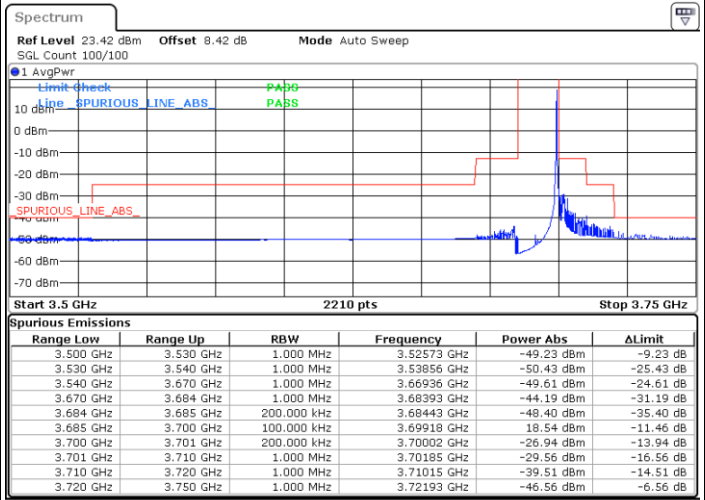
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



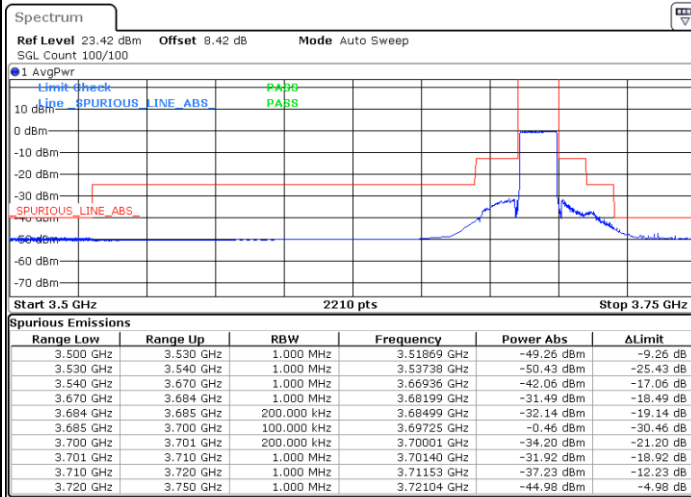
Date: 6 AUG 2022 17:09:01



Date: 6 AUG 2022 17:14:24

Highest Channel / FullIRB

N/A



Date: 6 AUG 2022 17:11:42

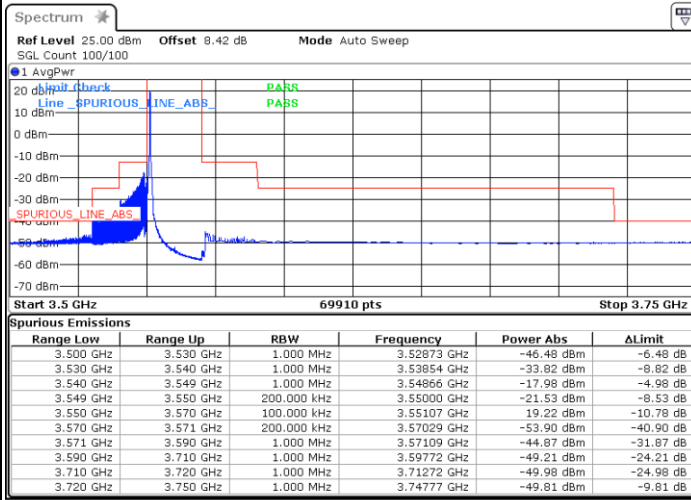


LTE Band 48 / 20MHz

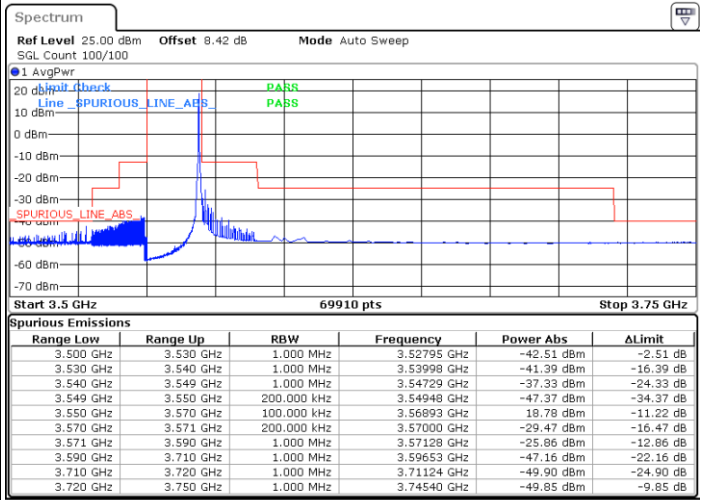
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



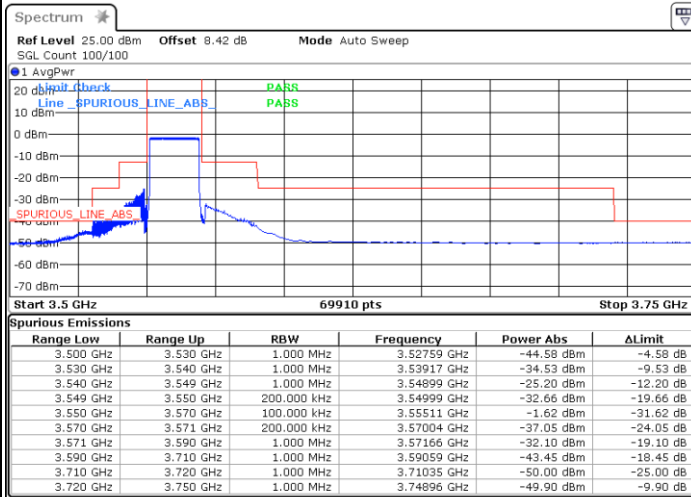
Date: 6 AUG 2022 17:57:43



Date: 6 AUG 2022 17:27:09

Lowest Channel / FullIRB

N/A



Date: 6 AUG 2022 18:03:05

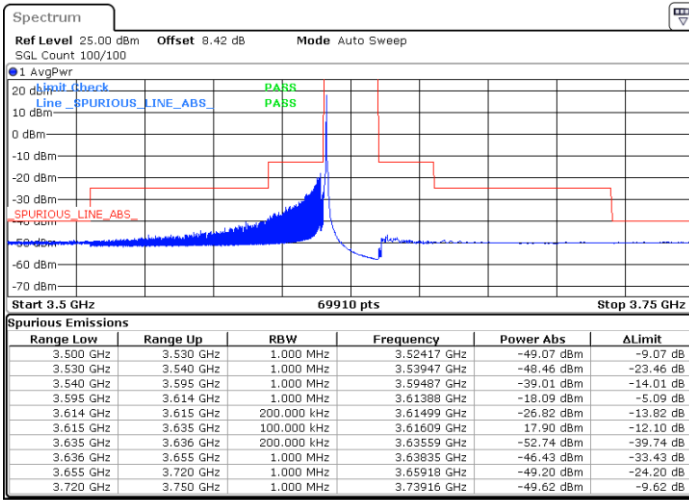


LTE Band 48 / 20MHz

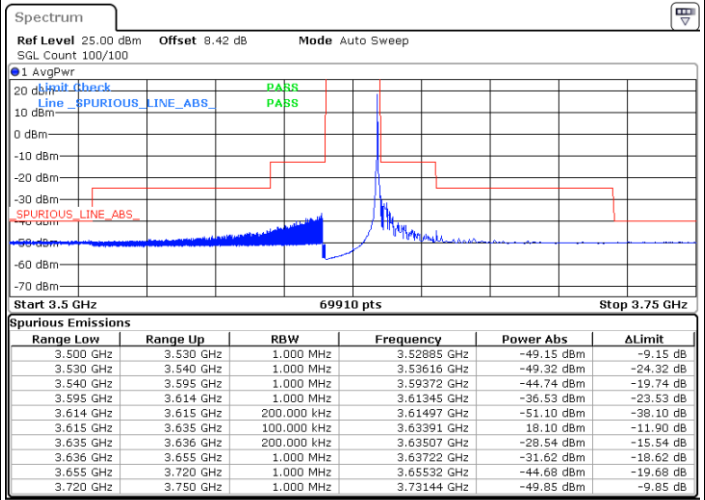
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



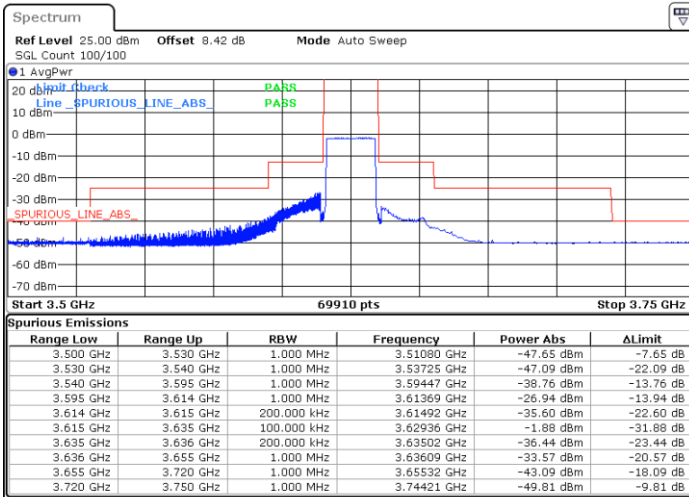
Date: 6 AUG 2022 17:37:14



Date: 6 AUG 2022 17:29:10

Middle Channel / FullRB

N/A



Date: 6 AUG 2022 17:33:12

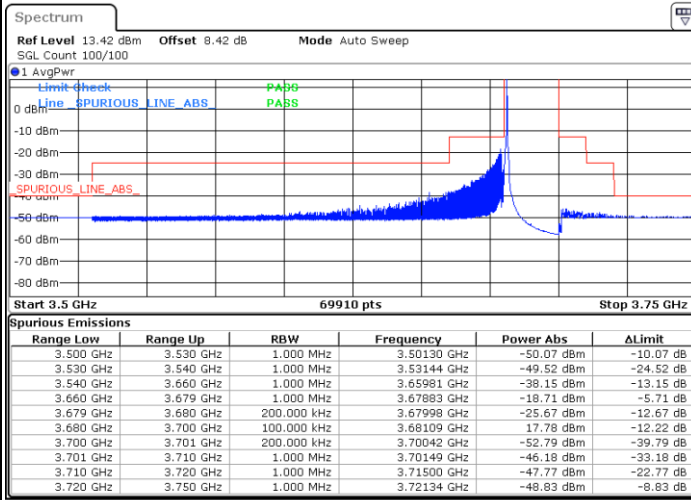


LTE Band 48 / 20MHz

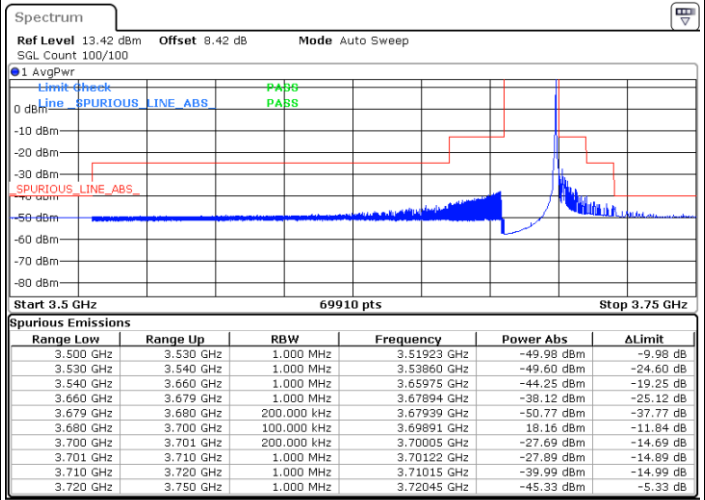
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



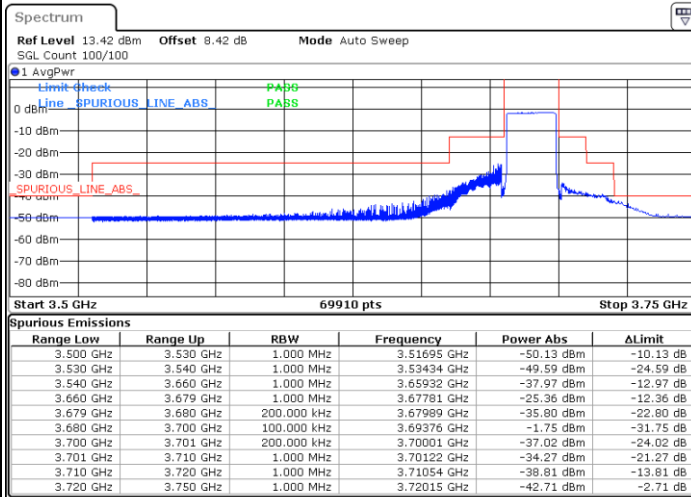
Date: 6 AUG 2022 17:47:22



Date: 6 AUG 2022 17:51:26

Highest Channel / FullIRB

N/A



Date: 6 AUG 2022 17:43:19

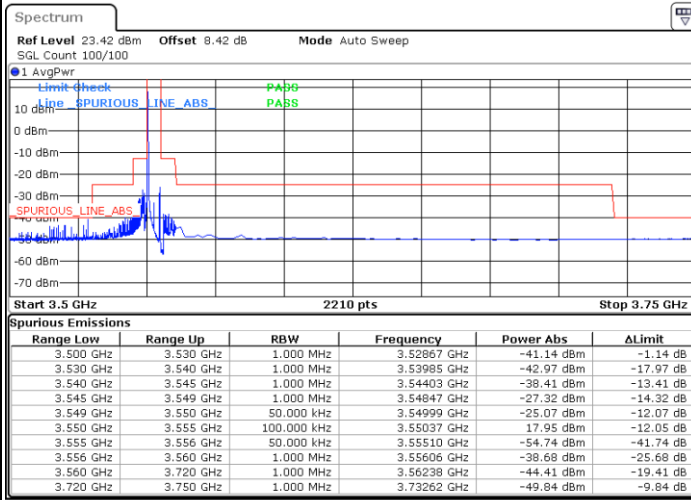


LTE Band 48 / 5MHz

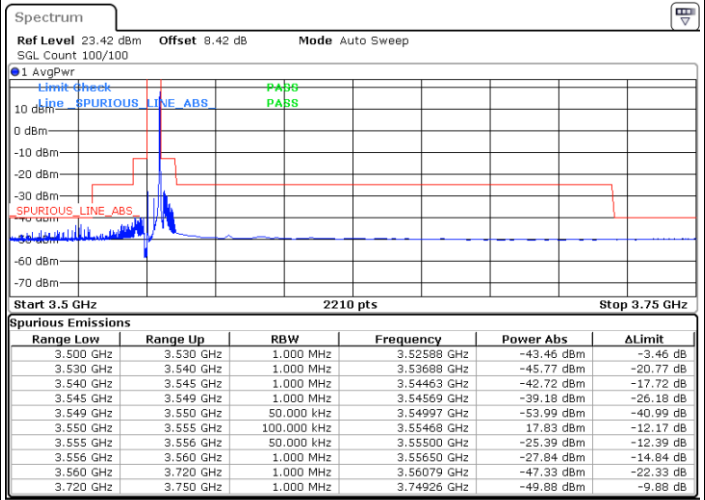
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



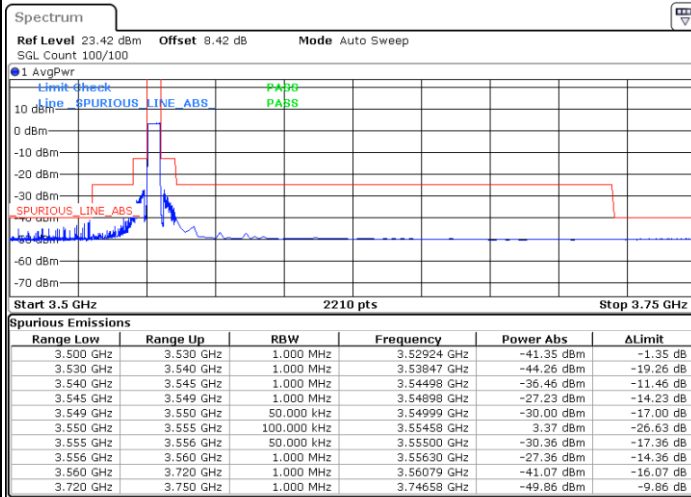
Date: 6 AUG 2022 18:18:42



Date: 6 AUG 2022 14:14:54

Lowest Channel / FullRB

N/A



Date: 6 AUG 2022 18:16:48

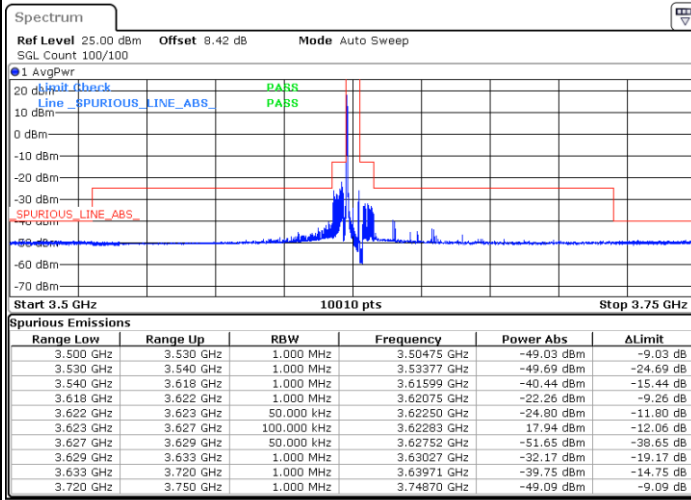


LTE Band 48 / 5MHz

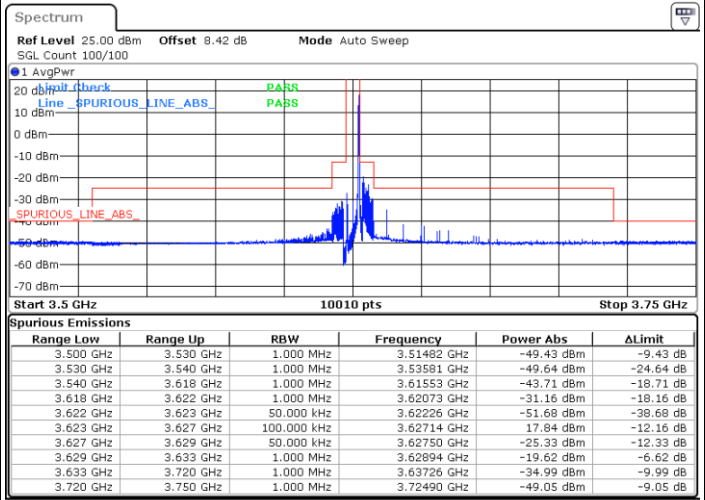
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



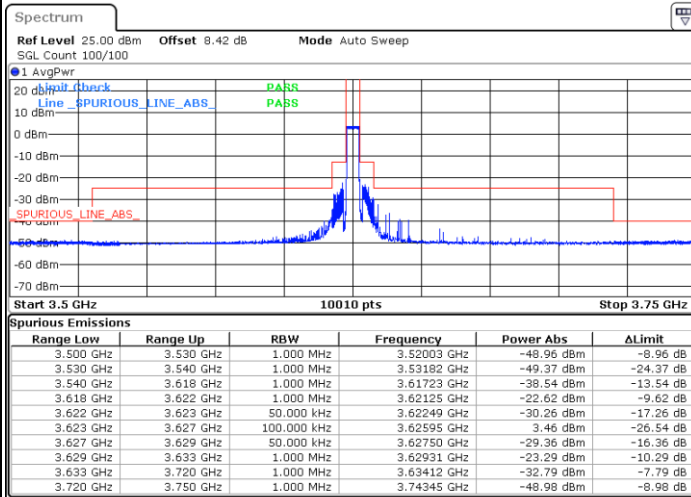
Date: 6 AUG 2022 14:18:57



Date: 6 AUG 2022 14:21:38

Middle Channel / FullRB

N/A



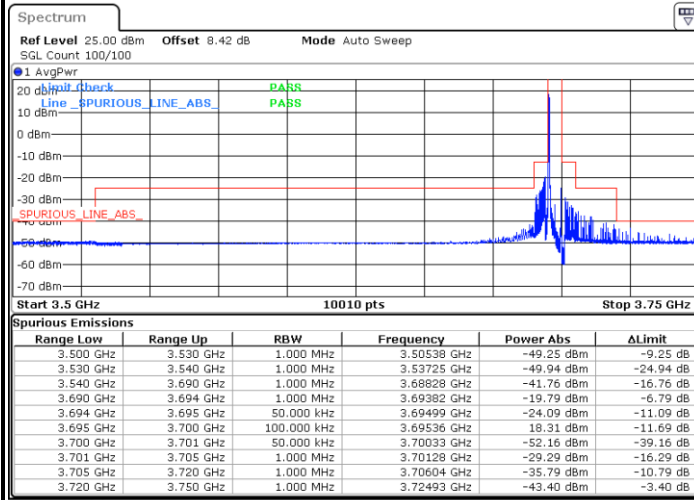
Date: 6 AUG 2022 14:24:19



LTE Band 48 / 5MHz

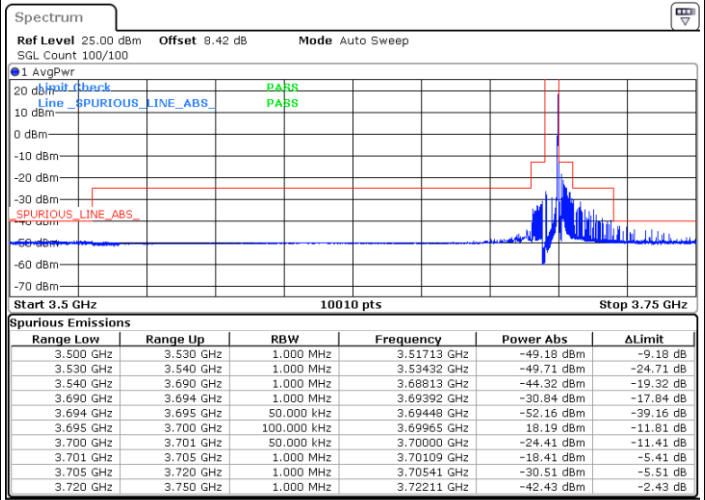
16QAM

Highest Channel / 1RB0



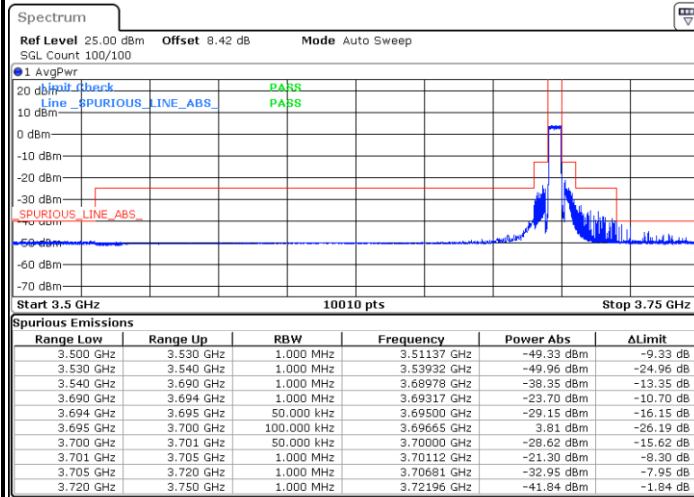
Date: 6 AUG 2022 14:28:21

Highest Channel / 1RBmax



Date: 6 AUG 2022 14:33:46

Highest Channel / FullRB



Date: 6 AUG 2022 14:31:03

N/A

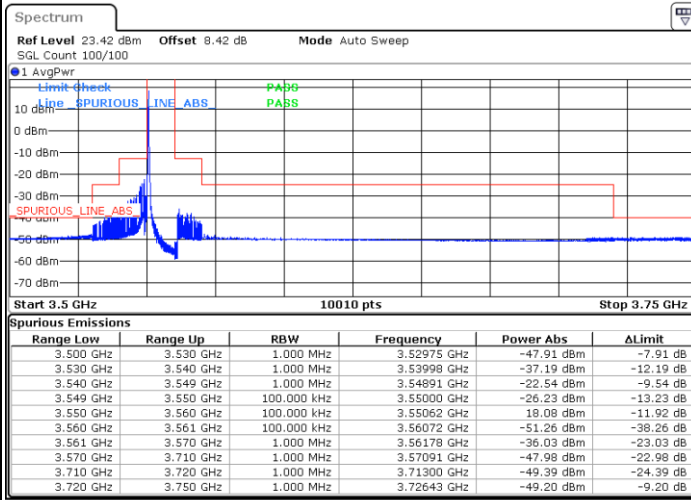


LTE Band 48 / 10MHz

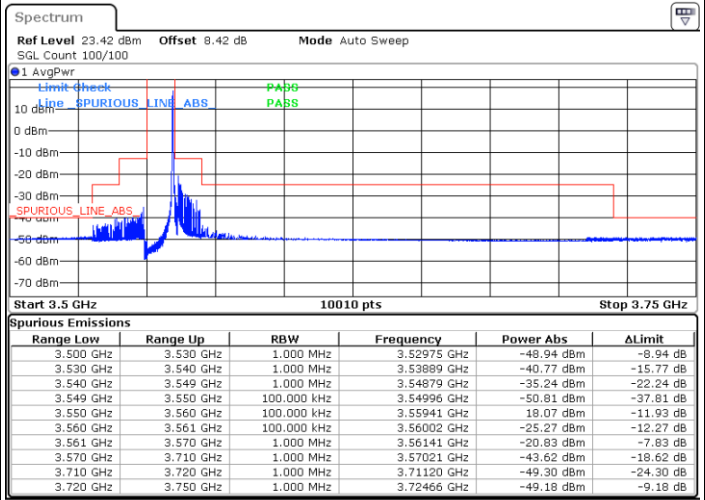
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



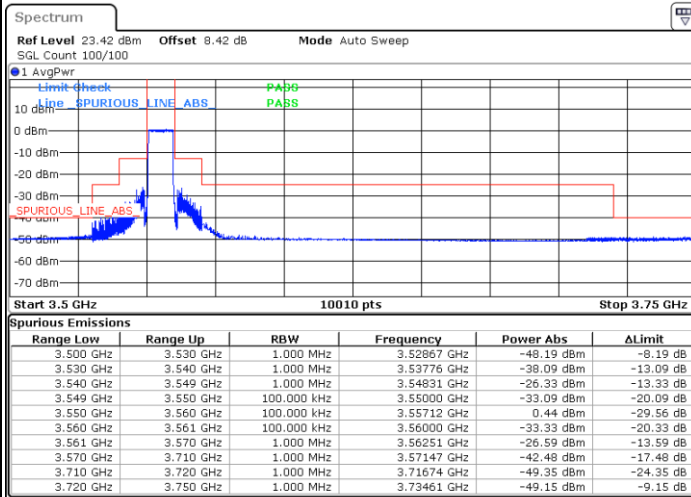
Date: 6 AUG 2022 14:35:07



Date: 6 AUG 2022 14:37:50

Lowest Channel / FullIRB

N/A



Date: 6 AUG 2022 14:40:32

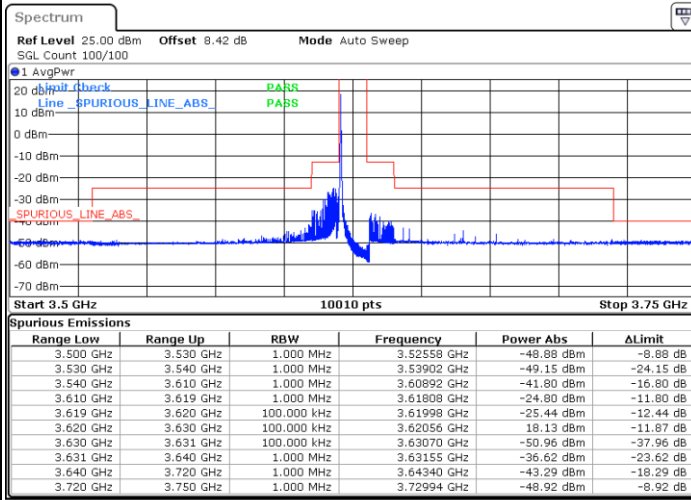


LTE Band 48 / 10MHz

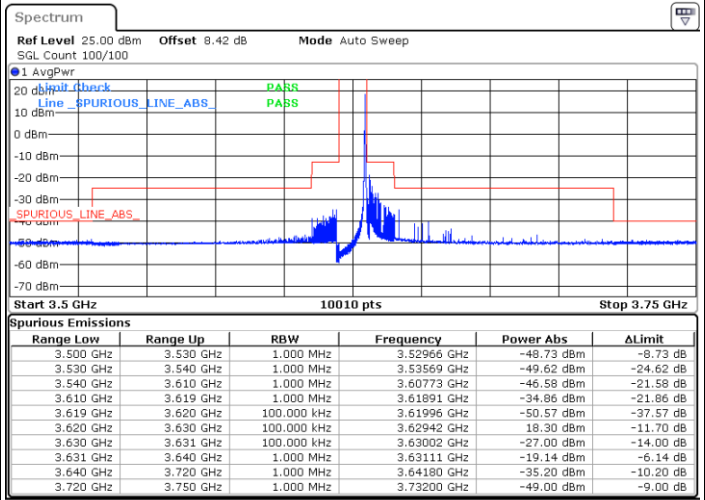
16QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



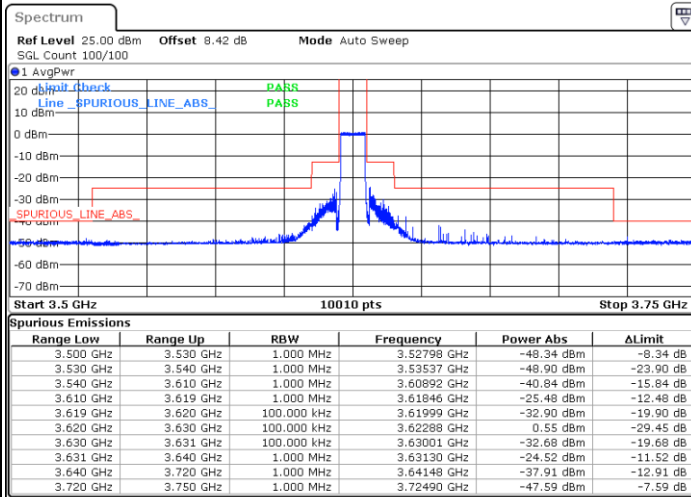
Date: 6 AUG 2022 14:44:34



Date: 6 AUG 2022 14:47:15

Middle Channel / FullRB

N/A



Date: 6 AUG 2022 14:49:56

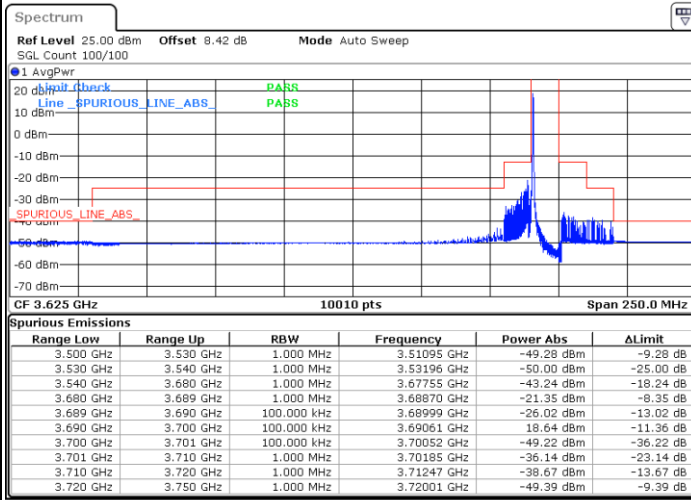


LTE Band 48 / 10MHz

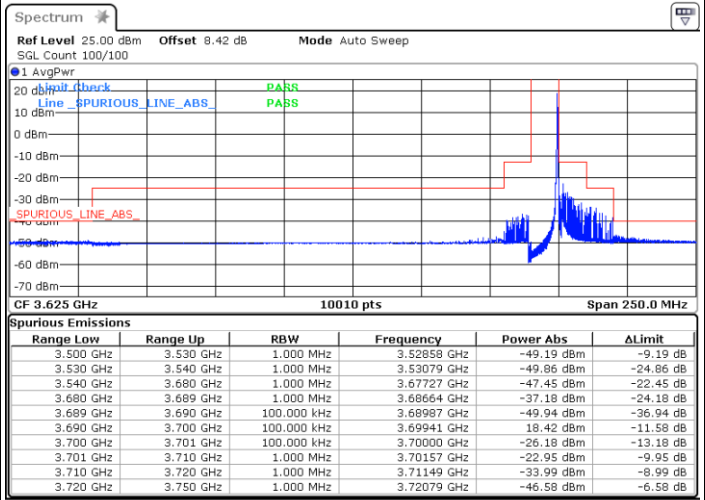
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



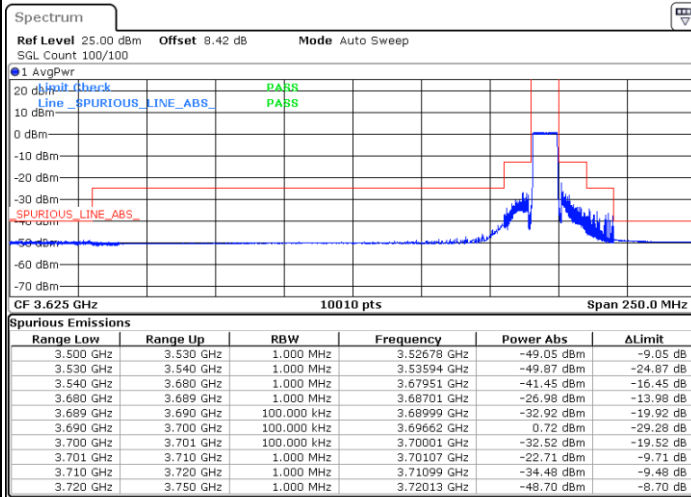
Date: 6 AUG 2022 18:38:40



Date: 6 AUG 2022 16:33:38

Highest Channel / FullIRB

N/A



Date: 6 AUG 2022 18:47:44

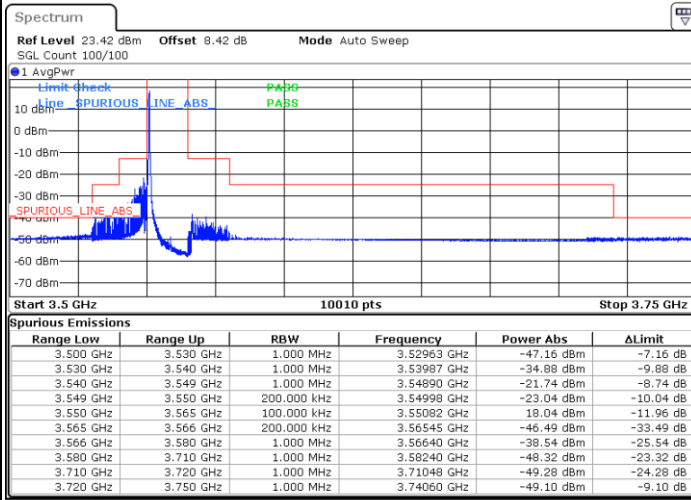


LTE Band 48 / 15MHz

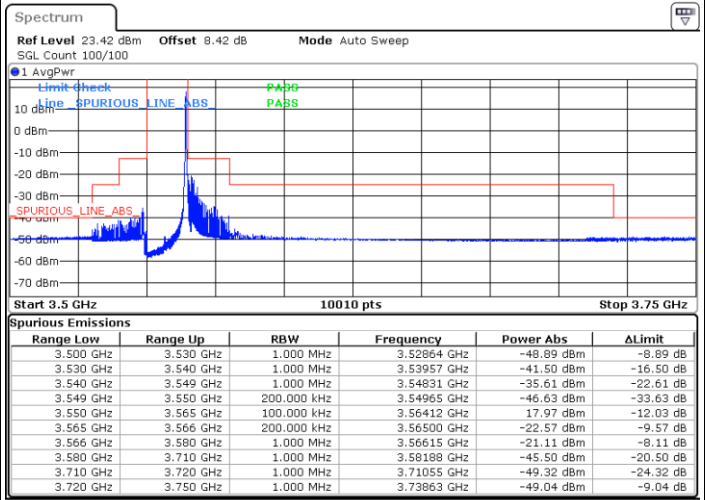
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



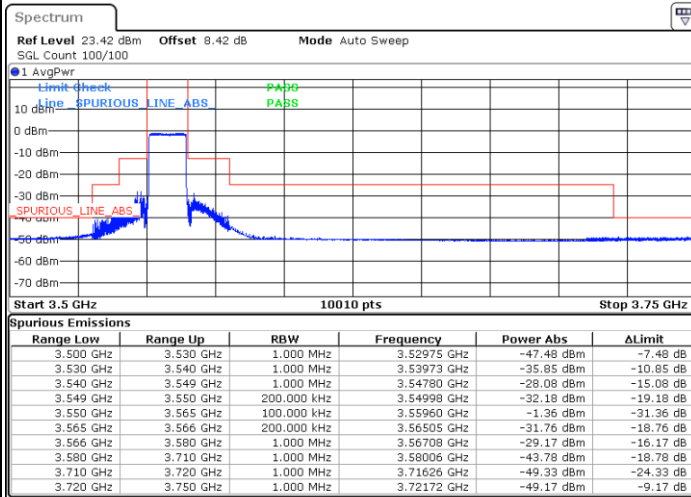
Date: 6 AUG 2022 16:54:13



Date: 6 AUG 2022 16:59:37

Lowest Channel / FullIRB

N/A



Date: 6 AUG 2022 16:56:55

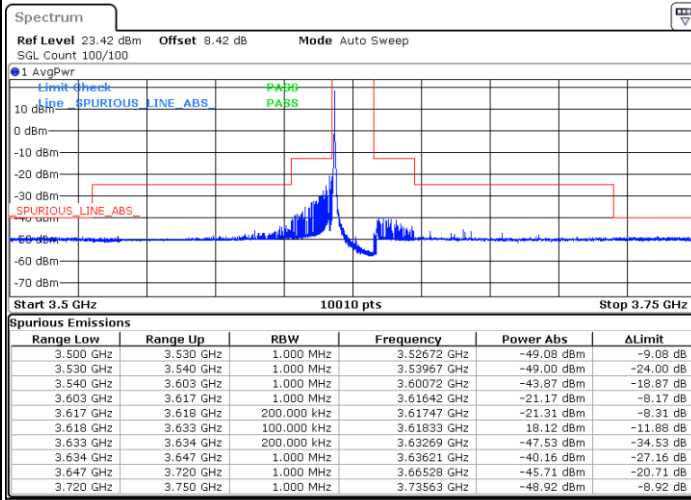


LTE Band 48 / 15MHz

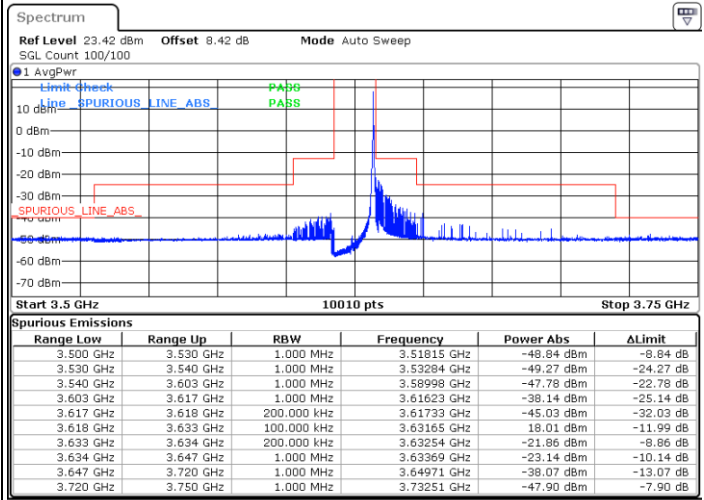
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



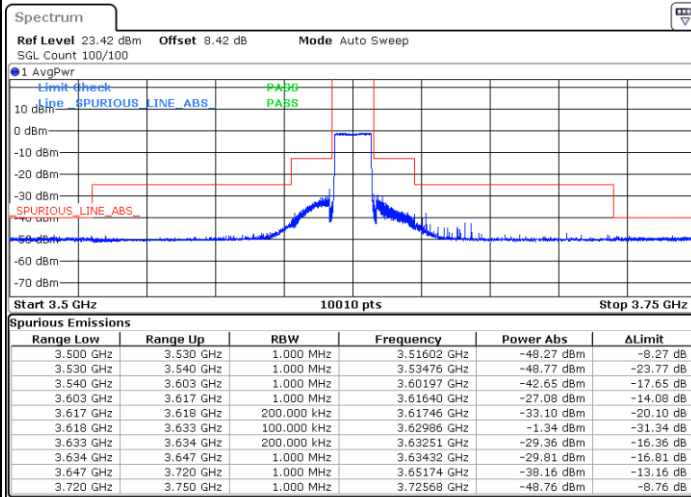
Date: 6 AUG 2022 17:00:58



Date: 6 AUG 2022 17:03:39

Middle Channel / FullRB

N/A



Date: 6 AUG 2022 17:06:20

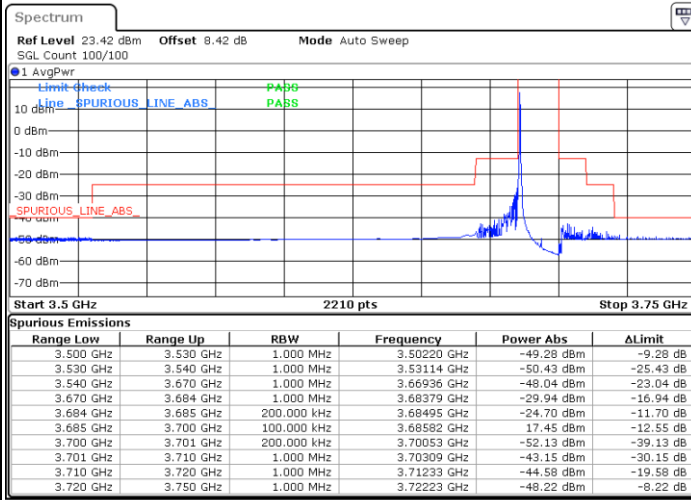


LTE Band 48 / 15MHz

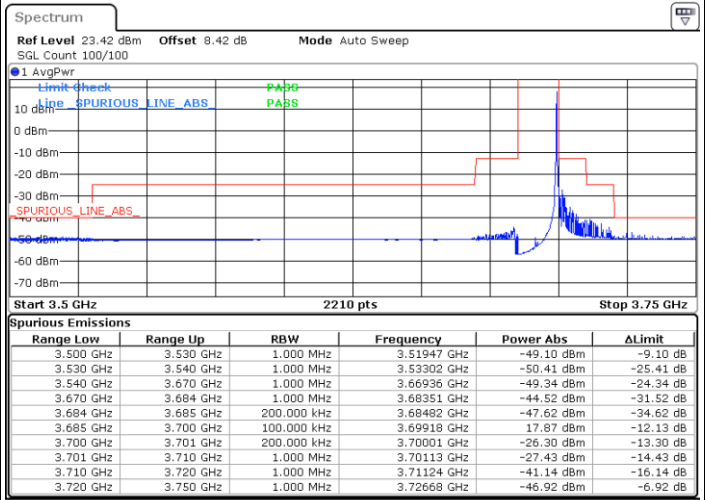
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



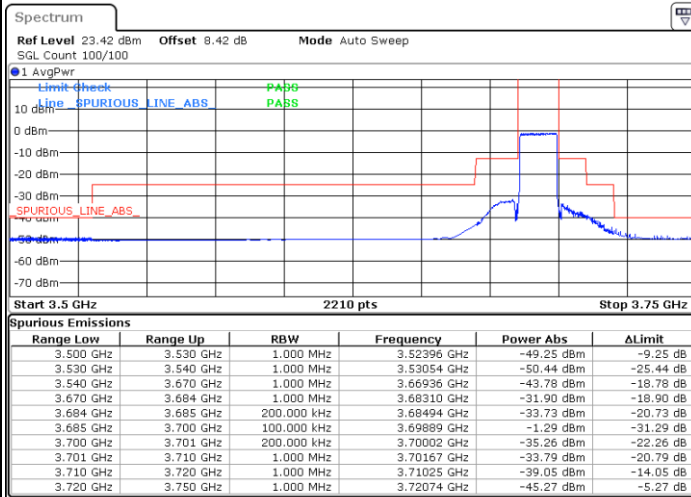
Date: 6 AUG 2022 17:10:21



Date: 6 AUG 2022 17:15:45

Highest Channel / FullIRB

N/A



Date: 6 AUG 2022 17:13:03

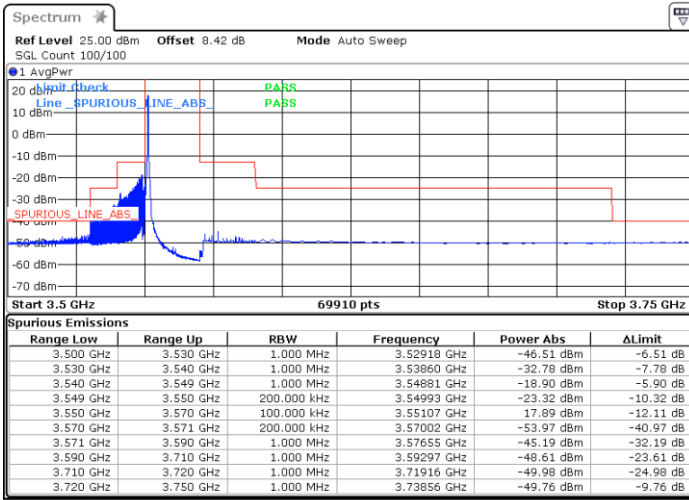


LTE Band 48 / 20MHz

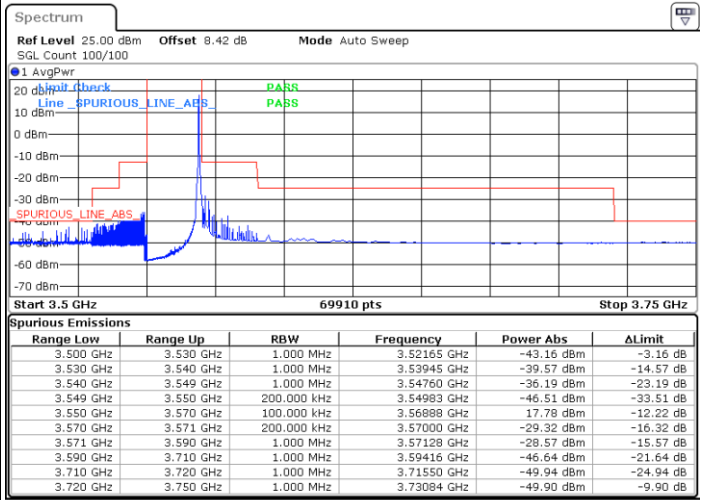
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



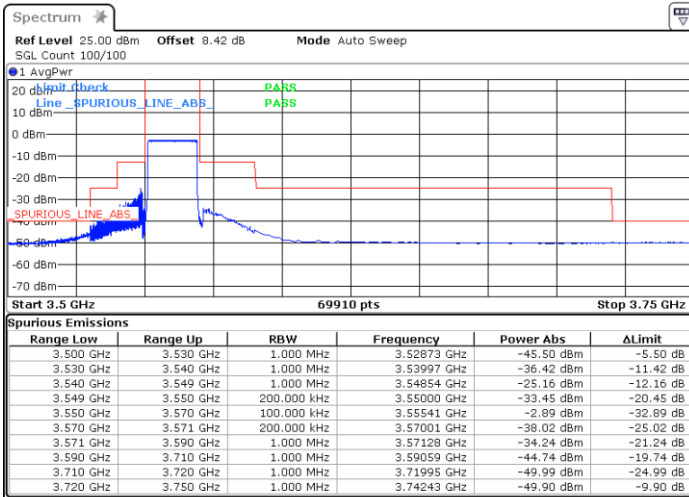
Date: 6 AUG 2022 17:59:57



Date: 6 AUG 2022 17:25:07

Lowest Channel / FullIRB

Lowest Channel / FullIRB



Date: 6 AUG 2022 18:06:10

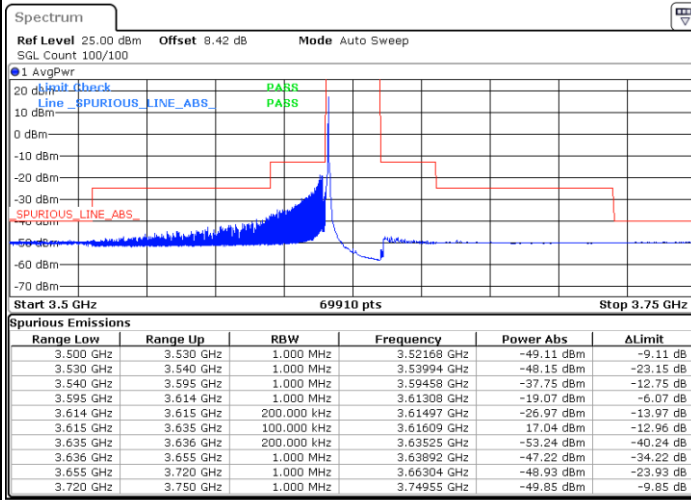


LTE Band 48 / 20MHz

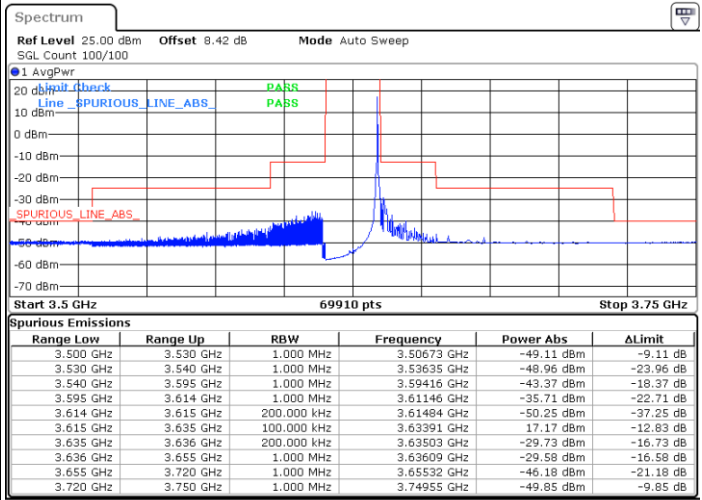
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



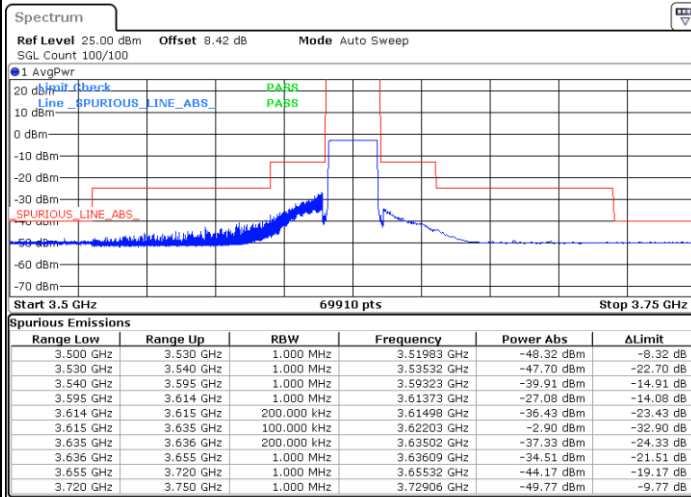
Date: 6 AUG 2022 17:39:15



Date: 6 AUG 2022 17:31:11

Middle Channel / FullRB

N/A



Date: 6 AUG 2022 17:35:13

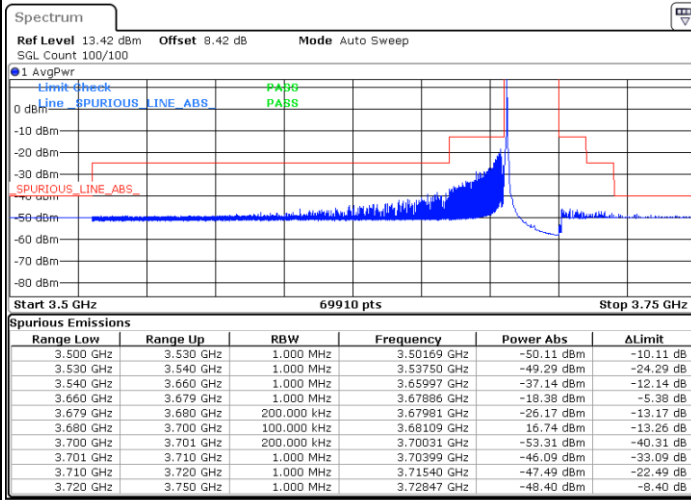


LTE Band 48 / 20MHz

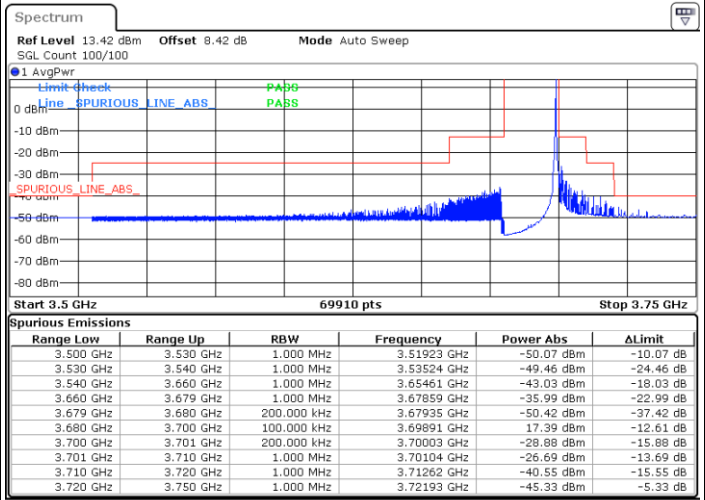
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



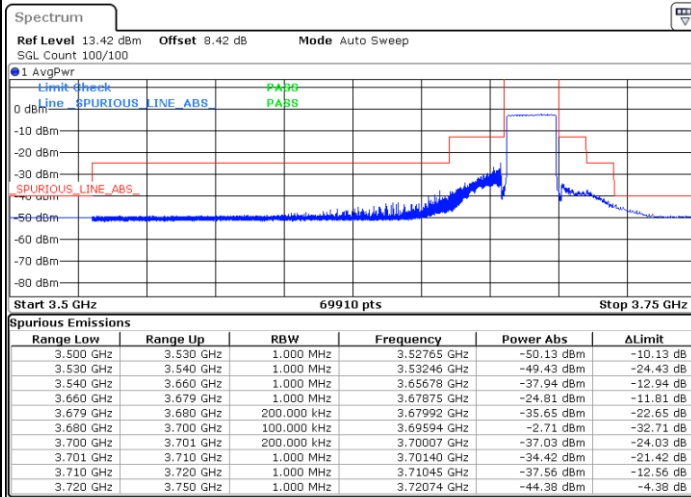
Date: 6 AUG 2022 17:45:21



Date: 6 AUG 2022 17:49:24

Highest Channel / FullIRB

N/A



Date: 6 AUG 2022 17:41:17



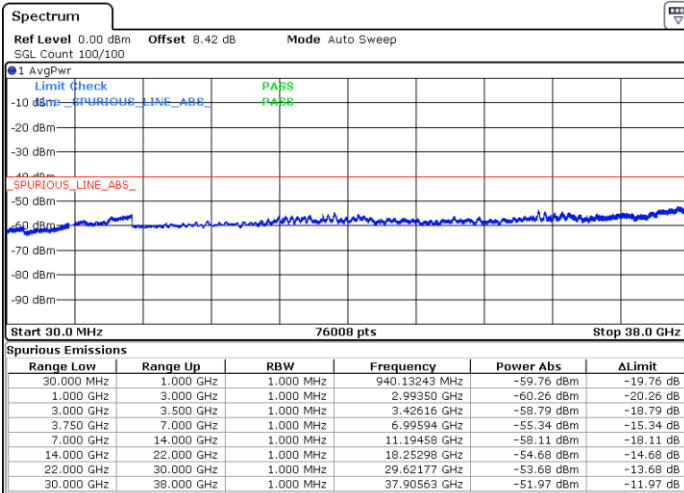
Conducted Spurious Emission

LTE Band 48 / 5MHz

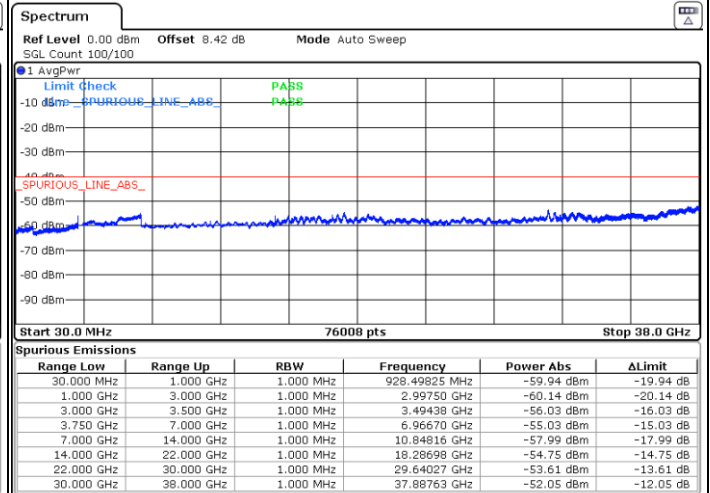
QPSK / 1RB0

Lowest Channel

Middle Channel

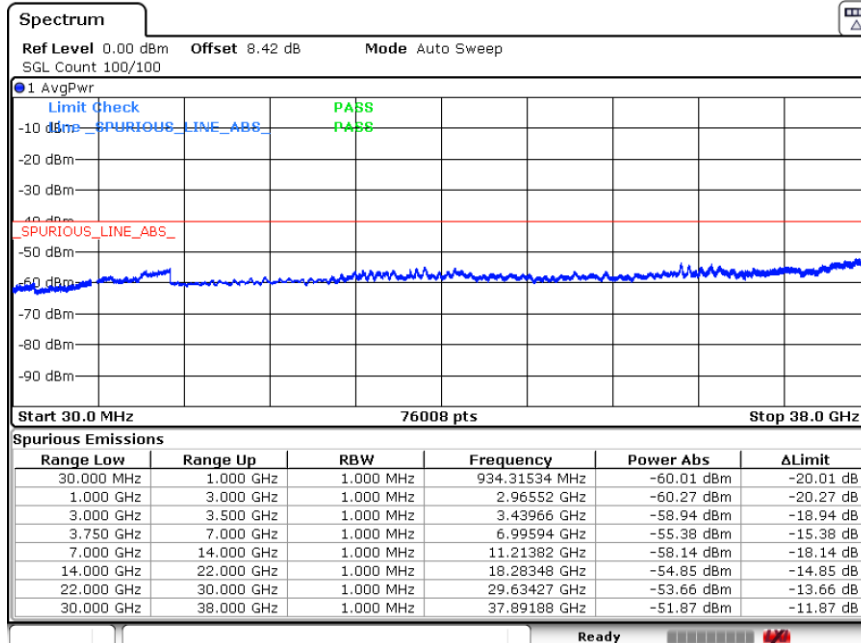


Date: 4.AUG.2022 13:33:31



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

Highest Channel



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

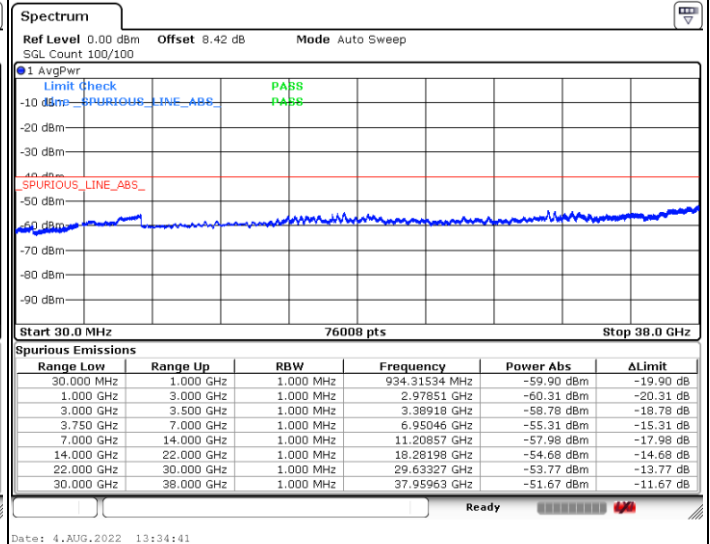
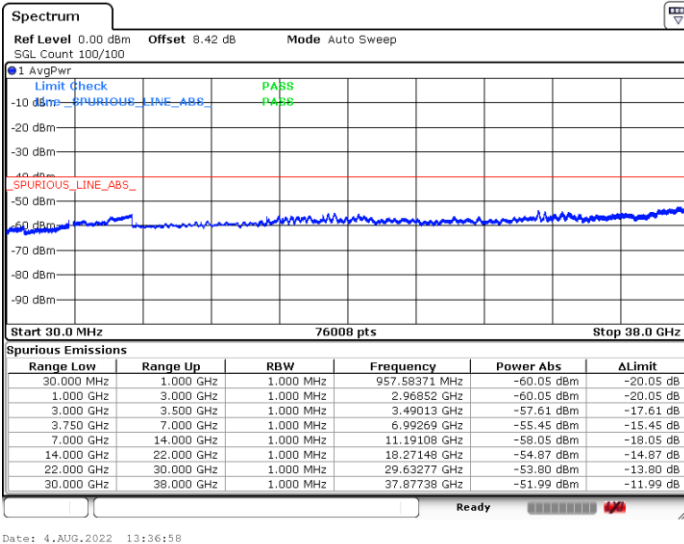


LTE Band 48 / 10MHz

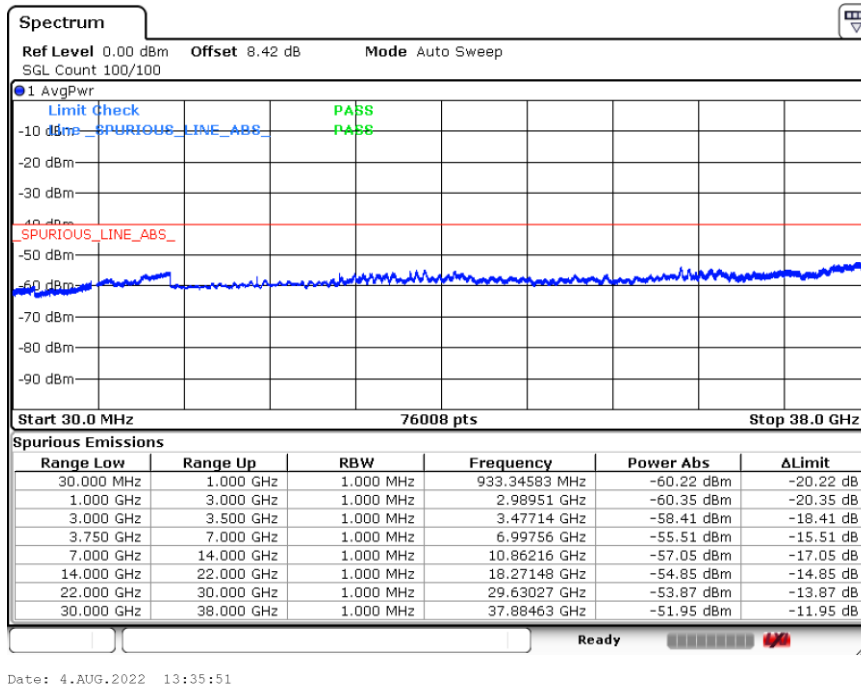
QPSK / 1RB0

Lowest Channel

Middle Channel



Highest Channel





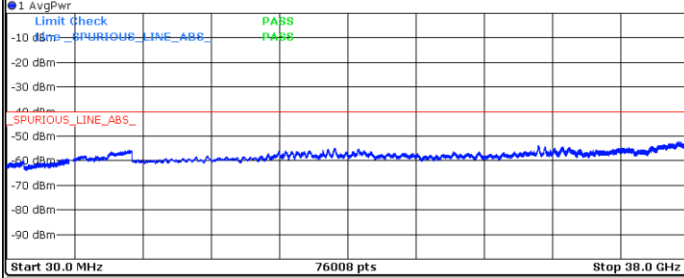
LTE Band 48 / 15MHz

QPSK / 1RB0

Lowest Channel

Middle Channel

Spectrum

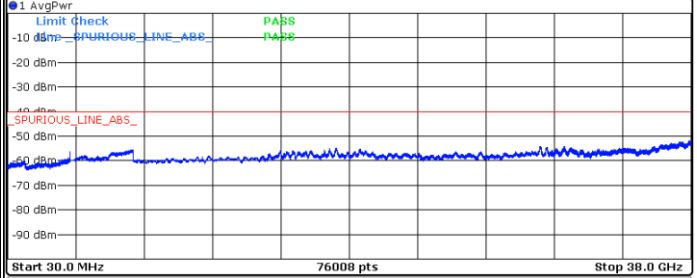
Ref Level 0.00 dBm Offset 8.42 dB Mode Auto Sweep
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	939.16292 MHz	-59.96 dBm	-19.96 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99150 GHz	-60.11 dBm	-20.11 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.40792 GHz	-59.26 dBm	-19.26 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.84164 GHz	-55.65 dBm	-15.65 dB
7.000 GHz	14.000 GHz	1.000 MHz	11.20157 GHz	-58.06 dBm	-18.06 dB
14.000 GHz	22.000 GHz	1.000 MHz	18.26148 GHz	-54.84 dBm	-14.84 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.62677 GHz	-53.79 dBm	-13.79 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.96738 GHz	-51.93 dBm	-11.93 dB

Ready

Date: 4.AUG.2022 13:38:11

Spectrum

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

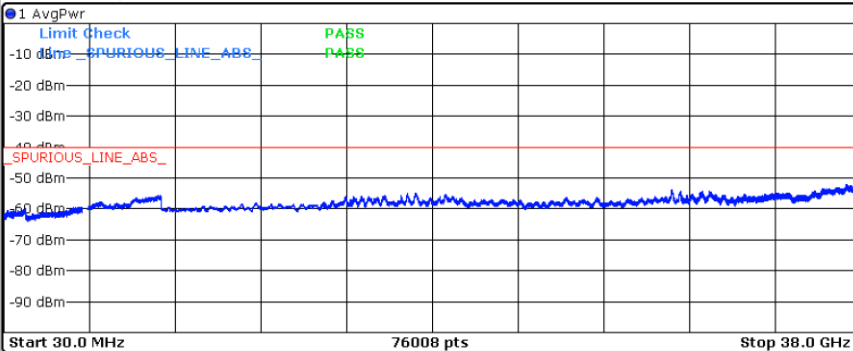
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	969.70265 MHz	-60.09 dBm	-20.09 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99950 GHz	-60.31 dBm	-20.31 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.49638 GHz	-56.45 dBm	-16.45 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.86113 GHz	-55.57 dBm	-15.57 dB
7.000 GHz	14.000 GHz	1.000 MHz	11.19283 GHz	-58.12 dBm	-18.12 dB
14.000 GHz	22.000 GHz	1.000 MHz	18.27548 GHz	-54.92 dBm	-14.92 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.61927 GHz	-54.05 dBm	-14.05 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.90088 GHz	-51.83 dBm	-11.83 dB

Ready

Date: 4.AUG.2022 13:40:26

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	995.87956 MHz	-60.00 dBm	-20.00 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95252 GHz	-60.30 dBm	-20.30 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.46414 GHz	-59.38 dBm	-19.38 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.86113 GHz	-55.59 dBm	-15.59 dB
7.000 GHz	14.000 GHz	1.000 MHz	11.20857 GHz	-58.15 dBm	-18.15 dB
14.000 GHz	22.000 GHz	1.000 MHz	18.27448 GHz	-54.84 dBm	-14.84 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.62327 GHz	-53.75 dBm	-13.75 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.89813 GHz	-52.15 dBm	-12.15 dB

Ready

Date: 4.AUG.2022 13:39:13

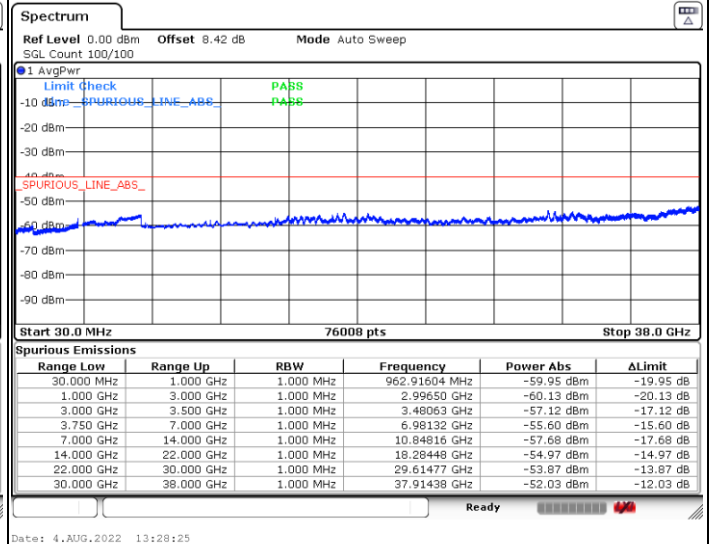
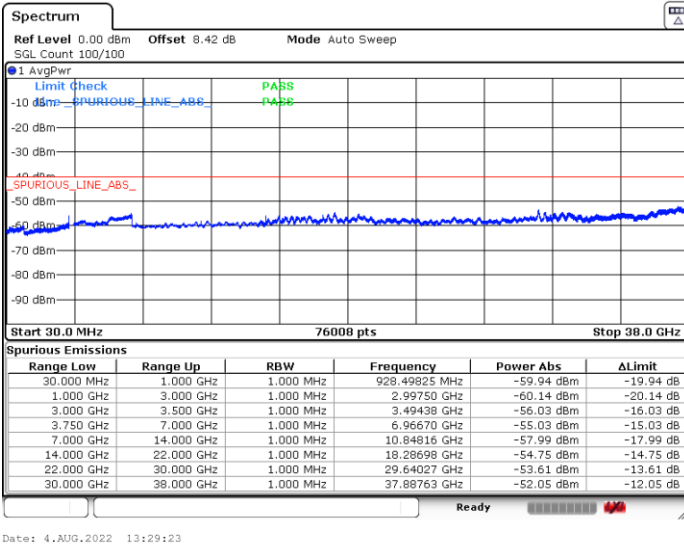


LTE Band 48 / 20MHz

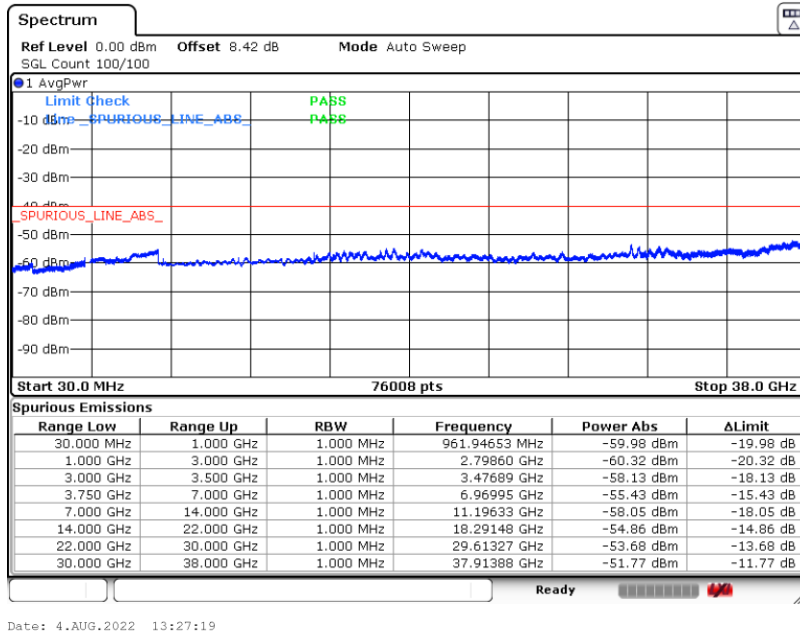
QPSK / 1RB0

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.