

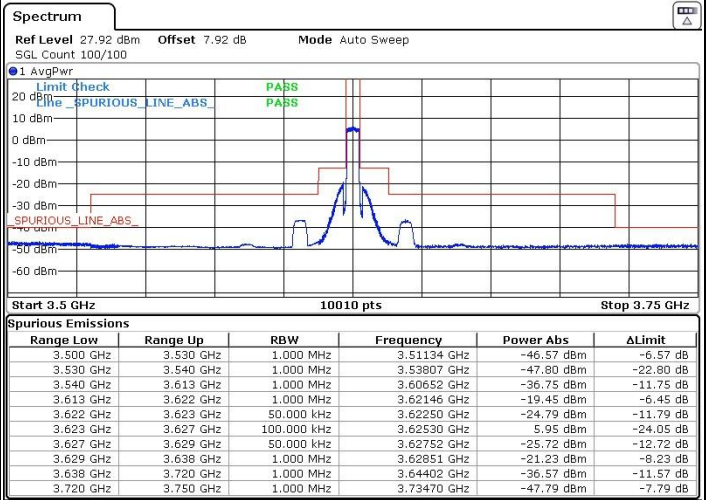
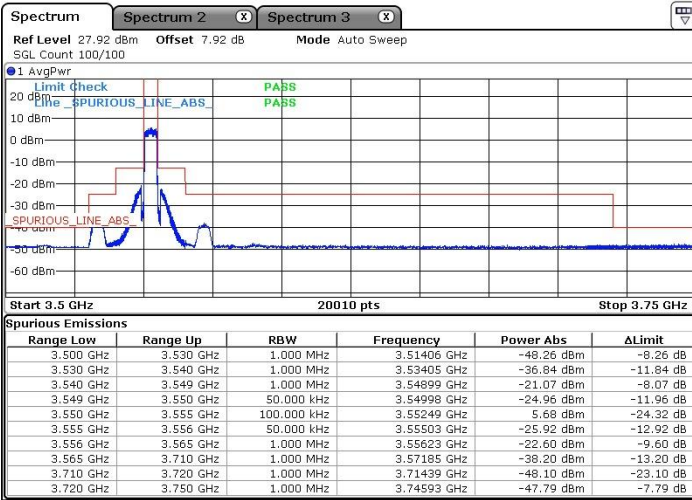


LTE Band 48 / 5MHz

16QAM

Lowest Channel / Full RB

Middle Channel / Full RB

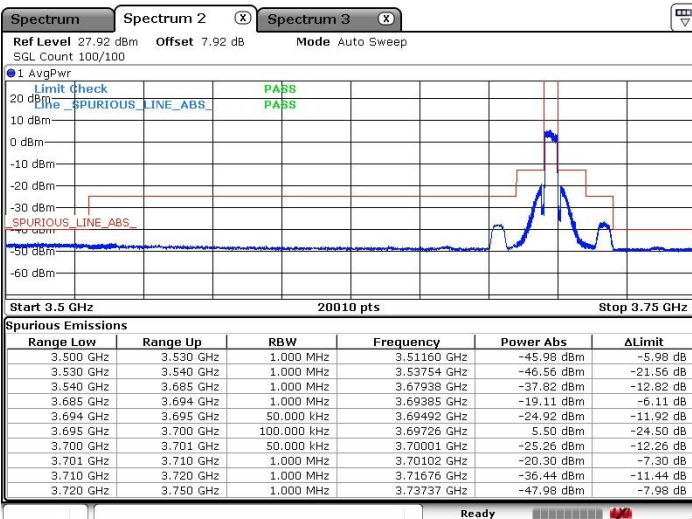


Date: 14.SEP.2020 20:05:06

Date: 16.SEP.2020 06:42:30

Highest Channel / Full RB

N/A



Date: 14.SEP.2020 19:44:44

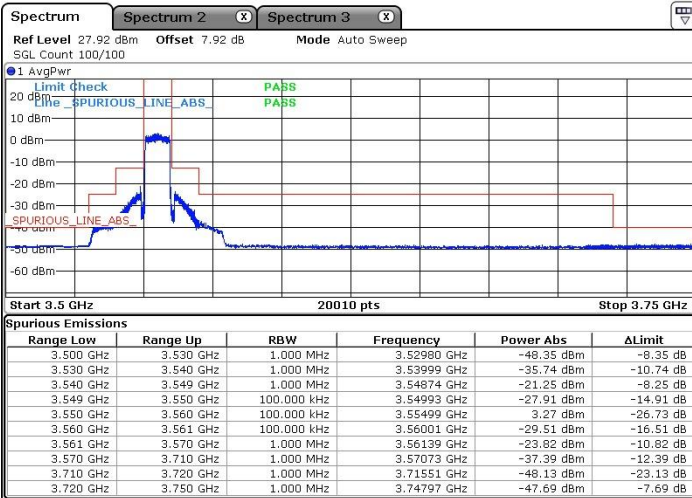


LTE Band 48 / 10MHz

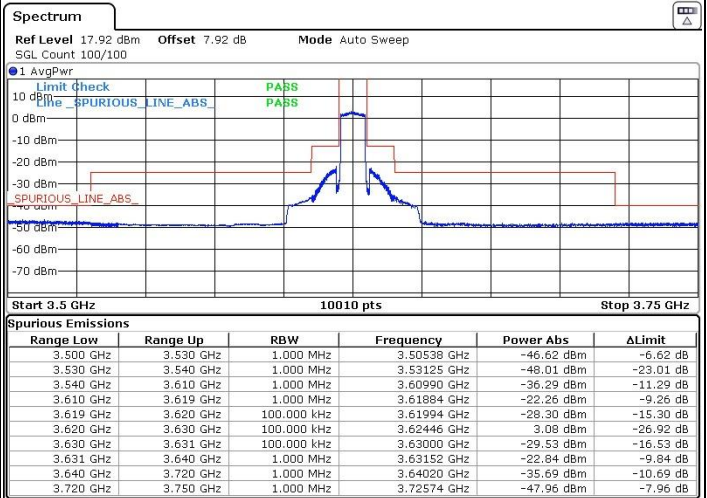
16QAM

Lowest Channel / Full RB

Middle Channel / Full RB



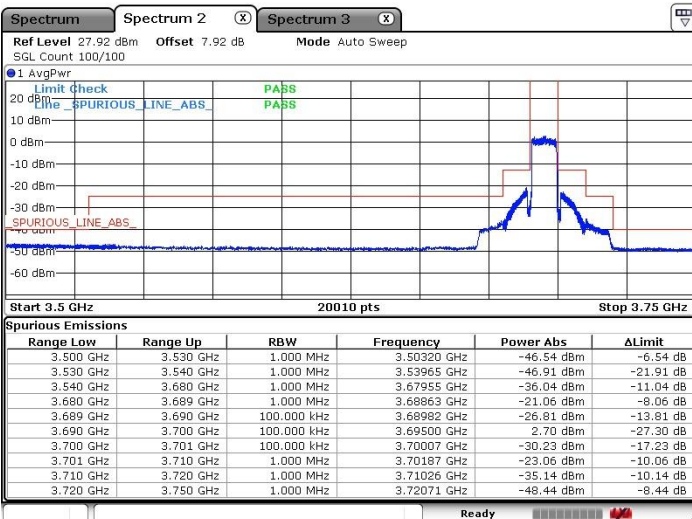
Date: 14.SEP.2020 20:11:09



Date: 16.SEP.2020 06:54:11

Highest Channel / Full RB

N/A



Date: 14.SEP.2020 20:17:07

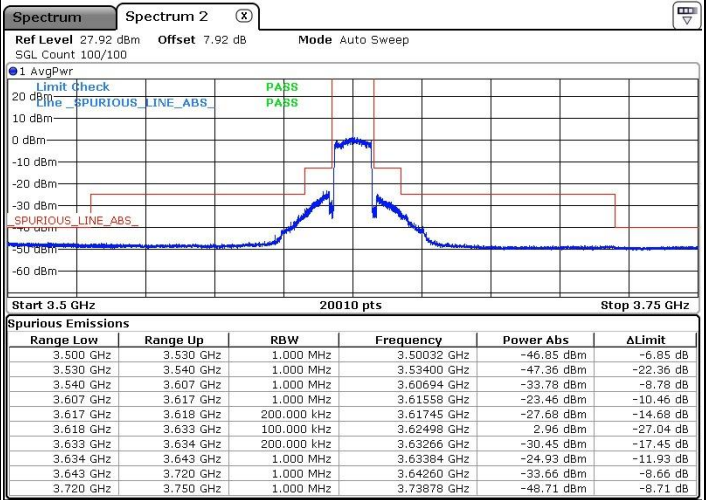
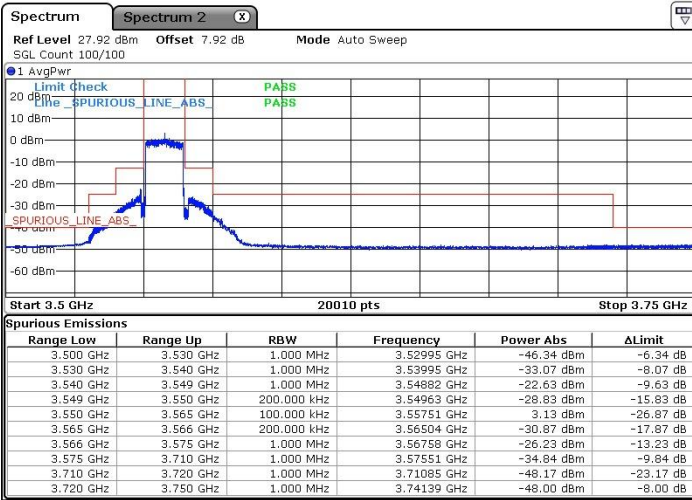


LTE Band 48 / 15MHz

16QAM

Lowest Channel / Full RB

Middle Channel / Full RB

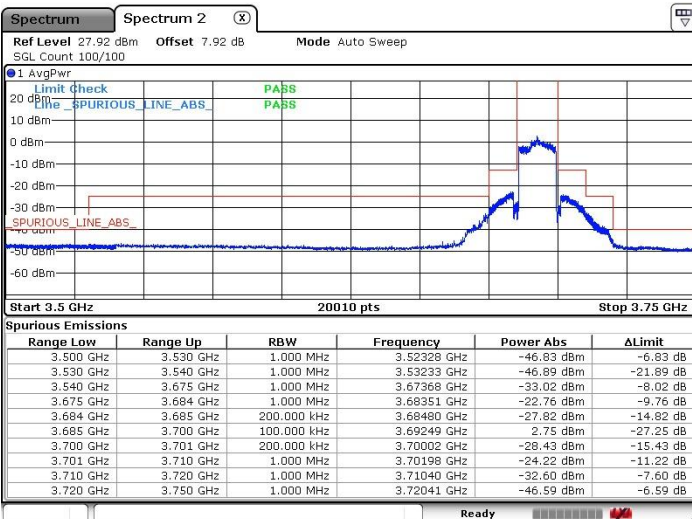


Date: 14.SEP.2020 19:00:41

Date: 14.SEP.2020 19:21:10

Highest Channel / Full RB

N/A



Date: 14.SEP.2020 19:08:41

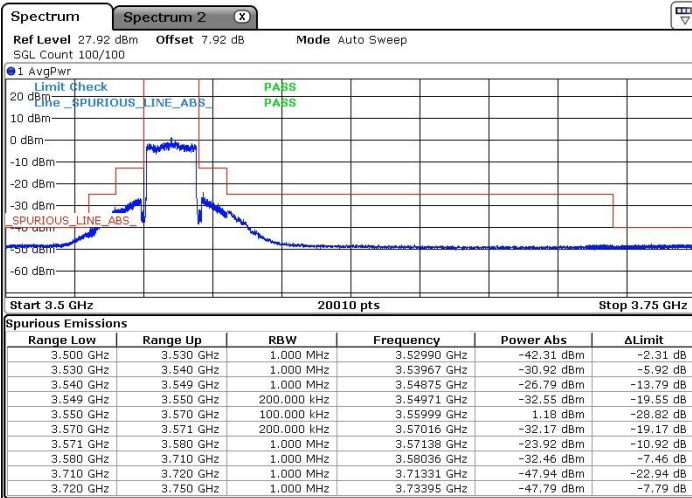


LTE Band 48 / 20MHz

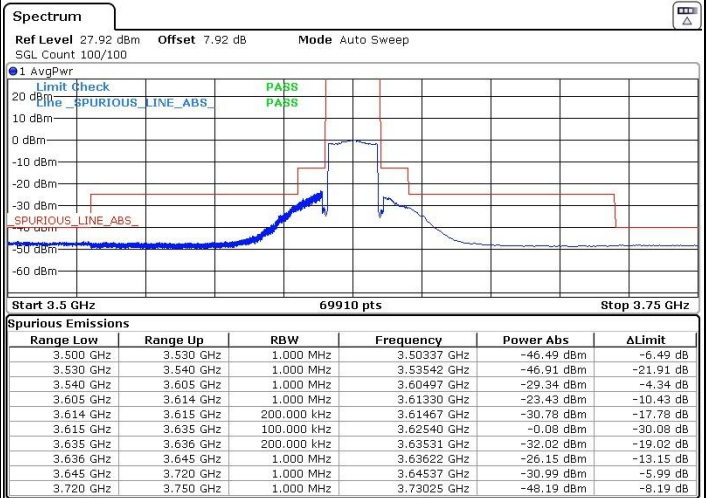
16QAM

Lowest Channel / Full RB

Middle Channel / Full RB



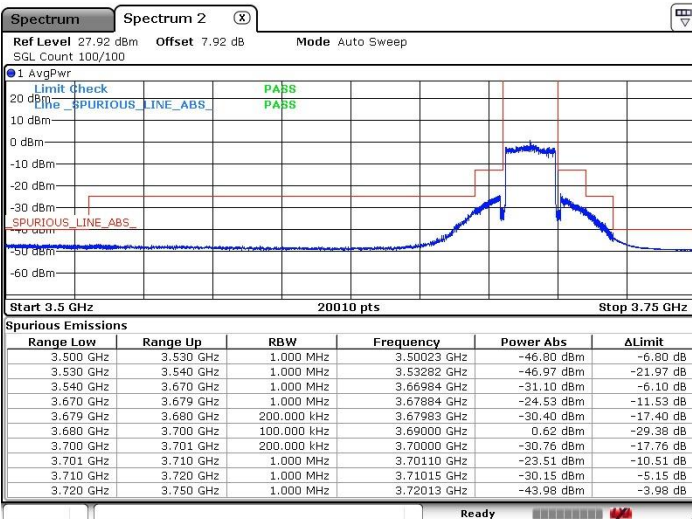
Date: 14.SEP.2020 18:45:38



Date: 16.SEP.2020 06:48:47

Highest Channel / Full RB

N/A



Date: 14.SEP.2020 18:40:57

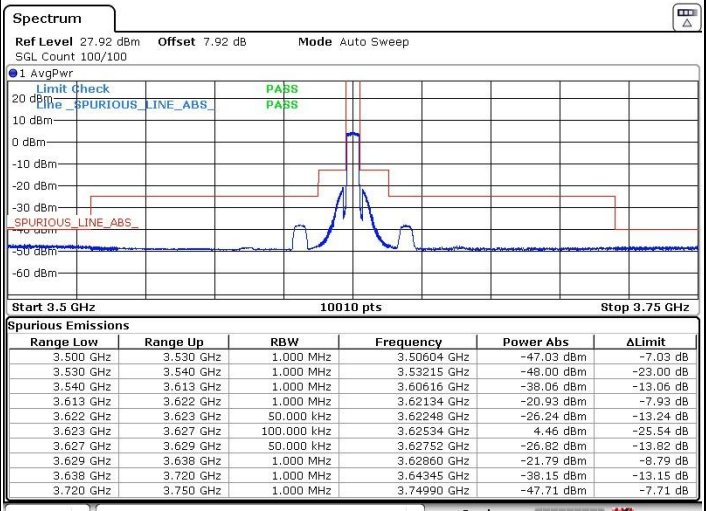
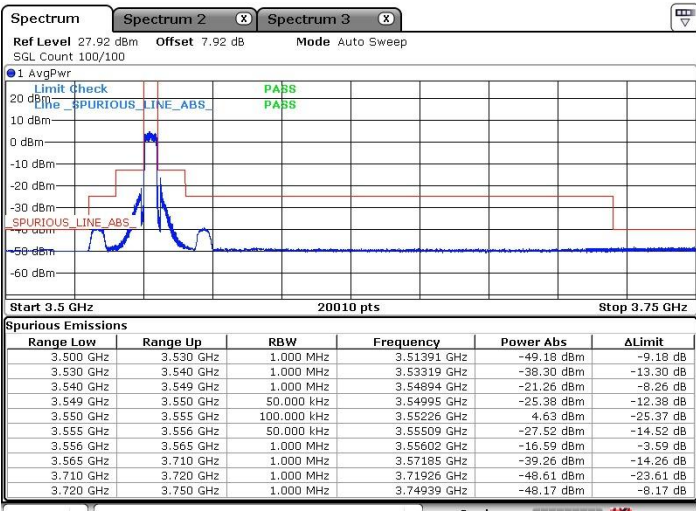


LTE Band 48 / 5MHz

64QAM

Lowest Channel / Full RB

Middle Channel / Full RB

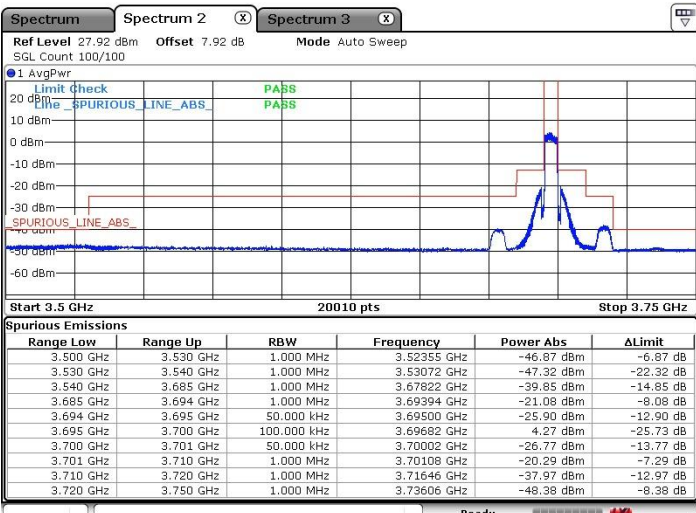


Date: 14.SEP.2020 20:03:28

Date: 16.SEP.2020 06:43:15

Highest Channel / Full RB

N/A



Date: 14.SEP.2020 19:47:33

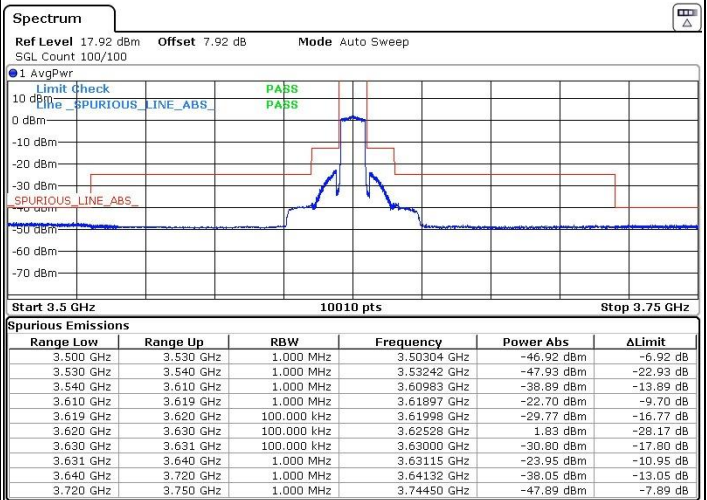
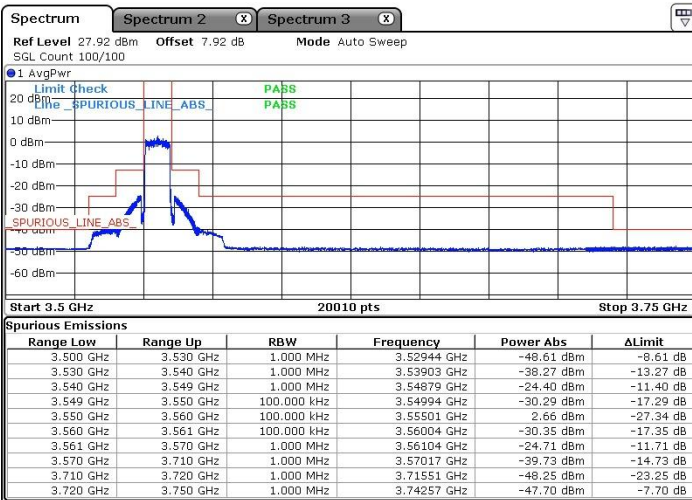


LTE Band 48 / 10MHz

64QAM

Lowest Channel / Full RB

Middle Channel / Full RB

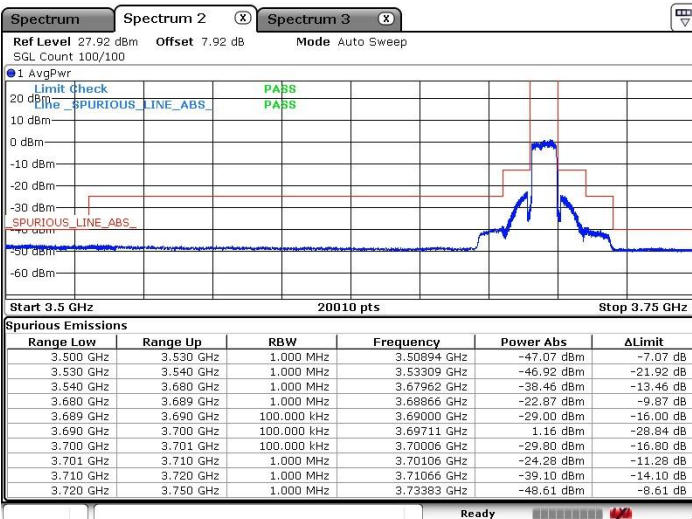


Date: 14.SEP.2020 20:12:04

Date: 16.SEP.2020 06:54:51

Highest Channel / Full RB

N/A



Date: 14.SEP.2020 20:16:21

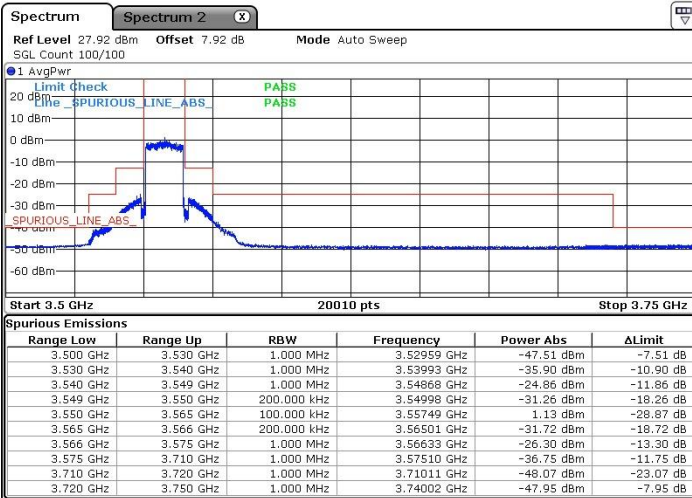


LTE Band 48 / 15MHz

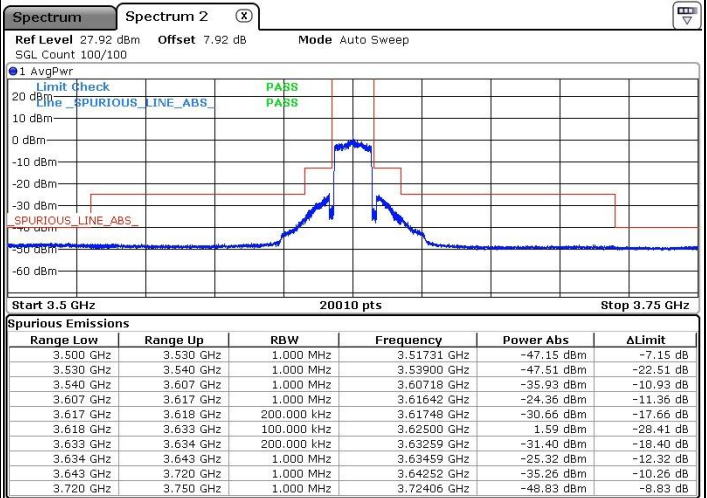
64QAM

Lowest Channel / Full RB

Middle Channel / Full RB



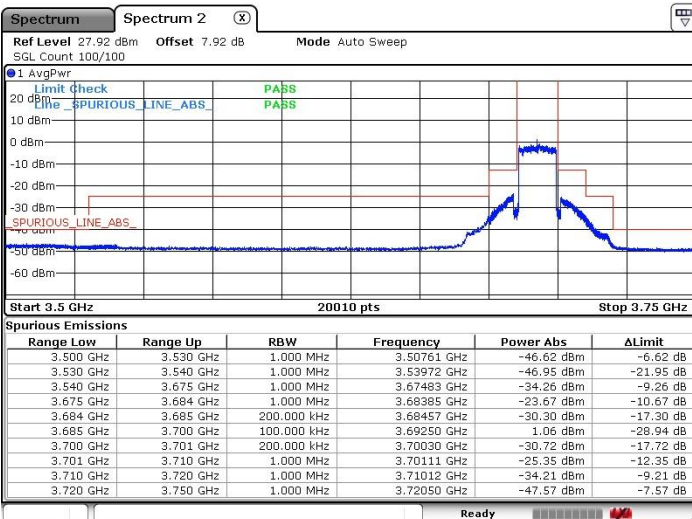
Date: 14.SEP.2020 19:02:32



Date: 14.SEP.2020 19:22:10

Highest Channel / Full RB

N/A



Date: 14.SEP.2020 19:07:30

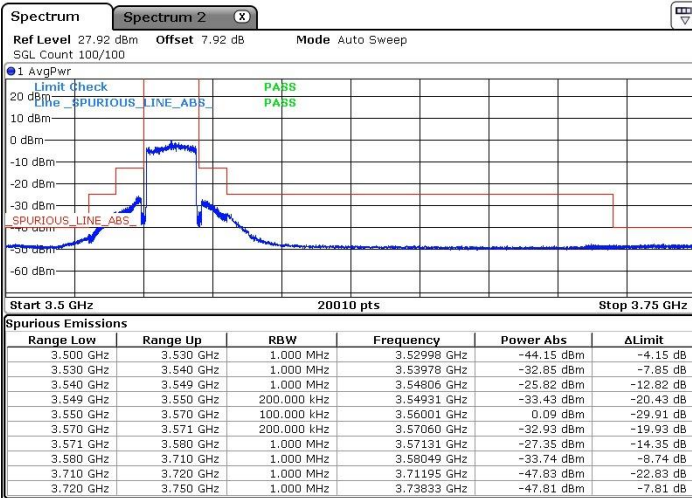


LTE Band 48 / 20MHz

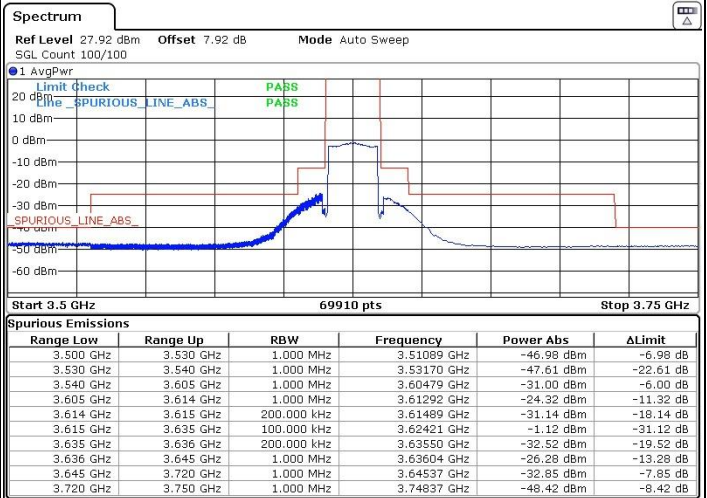
64QAM

Lowest Channel / Full RB

Middle Channel / Full RB



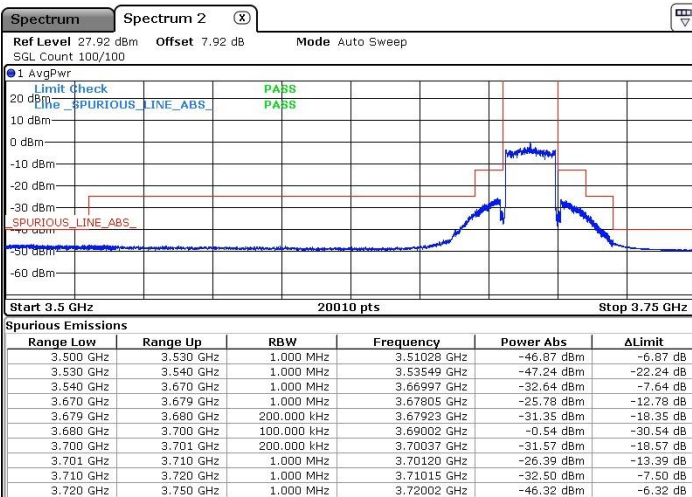
Date: 14.SEP.2020 18:45:06



Date: 16.SEP.2020 06:50:05

Highest Channel / Full RB

N/A



Date: 14.SEP.2020 18:42:46



Conducted Spurious Emission



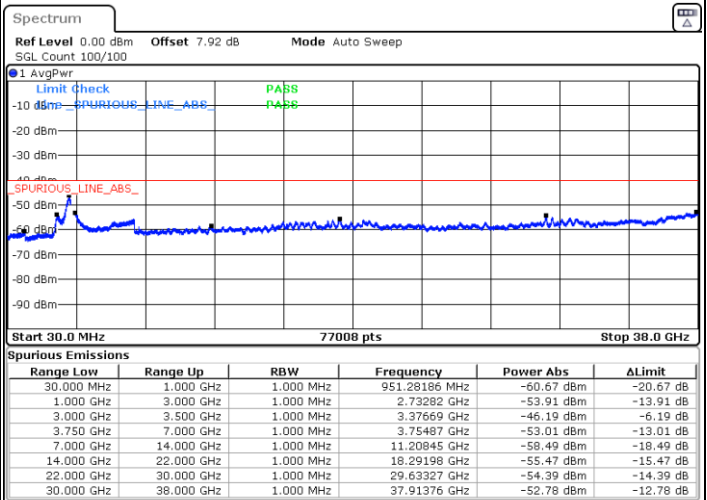
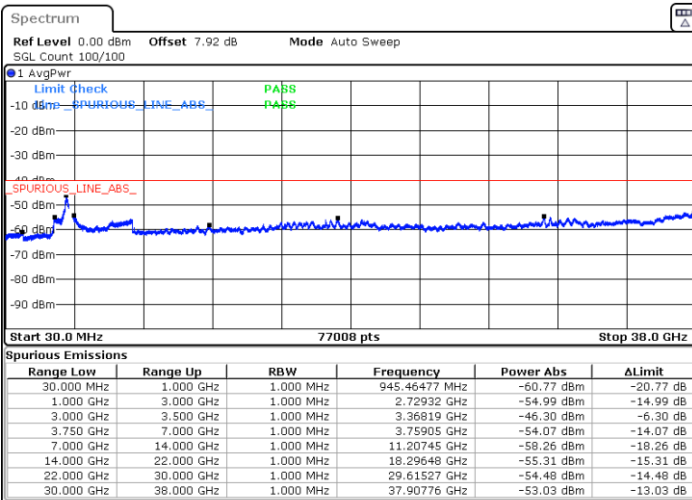


LTE Band 48 / 10MHz

QPSK

Lowest Channel / Full RB

Middle Channel / Full RB

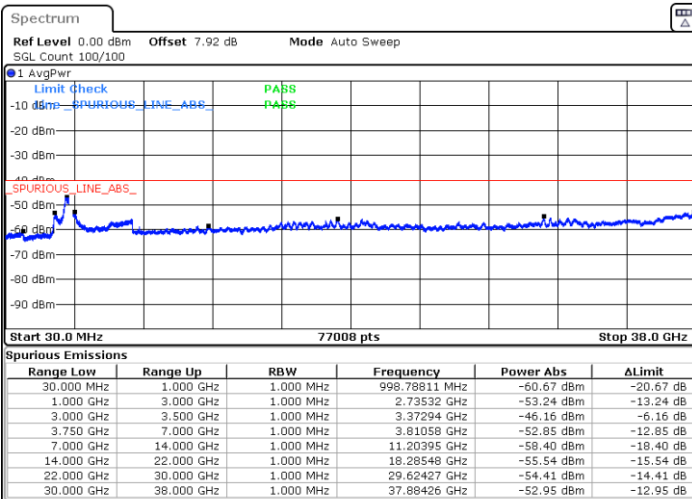


Date: 16 SEP 2020 05:03:11

Date: 16 SEP 2020 05:10:06

Highest Channel / Full RB

N/A



Date: 16 SEP 2020 05:13:44

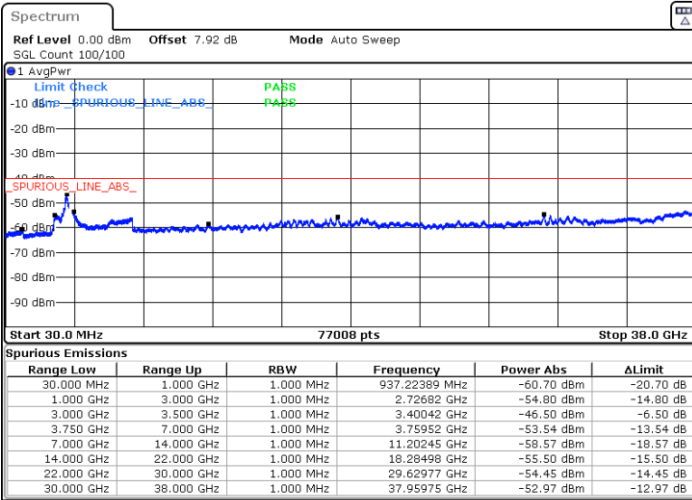


LTE Band 48 / 15MHz

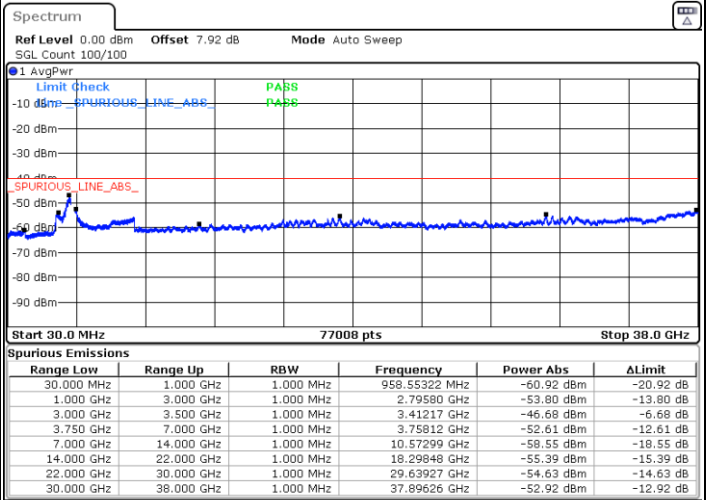
QPSK

Lowest Channel / Full RB

Middle Channel / Full RB



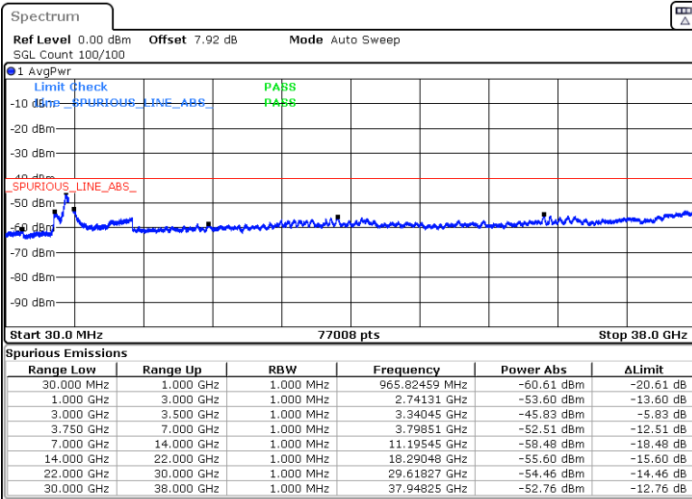
Date: 16 SEP 2020 05:18:59



Date: 16 SEP 2020 05:24:16

Highest Channel / Full RB

N/A



Date: 16 SEP 2020 05:38:06

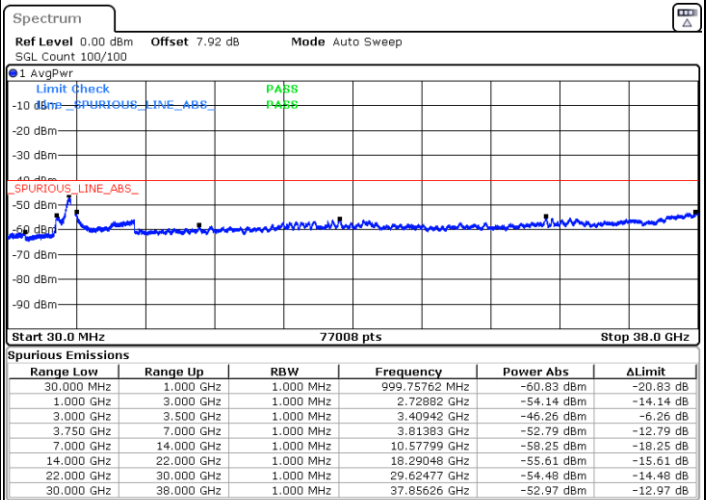
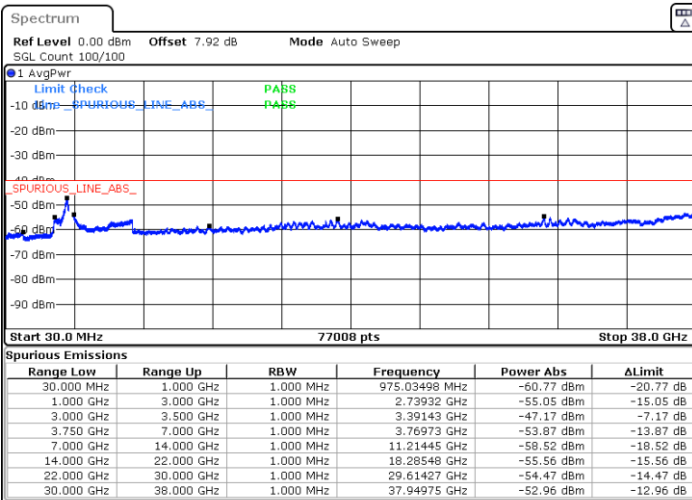


LTE Band 48 / 20MHz

QPSK

Lowest Channel / Full RB

Middle Channel / Full RB

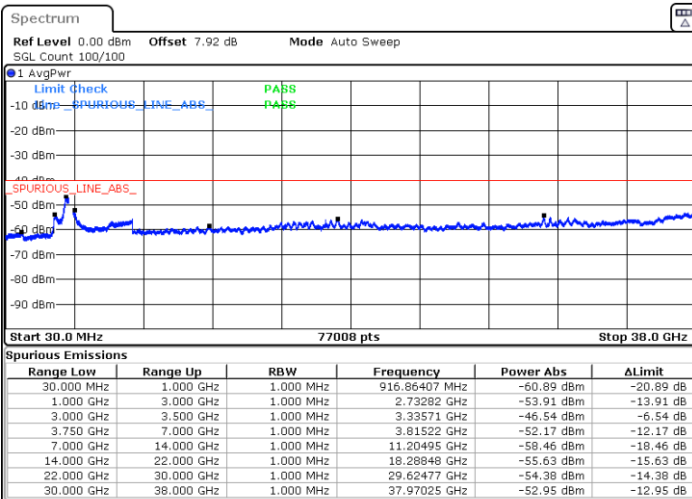


Date: 16 SEP 2020 05:41:56

Date: 16 SEP 2020 05:45:38

Highest Channel / Full RB

N/A



Date: 16 SEP 2020 05:49:10

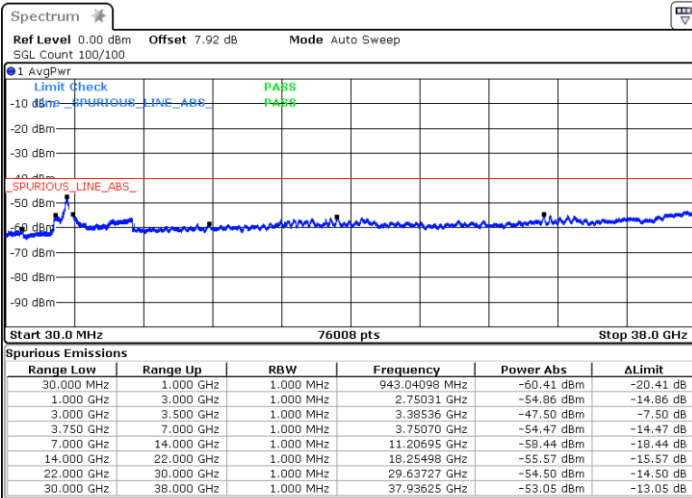


LTE Band 48 / 5MHz

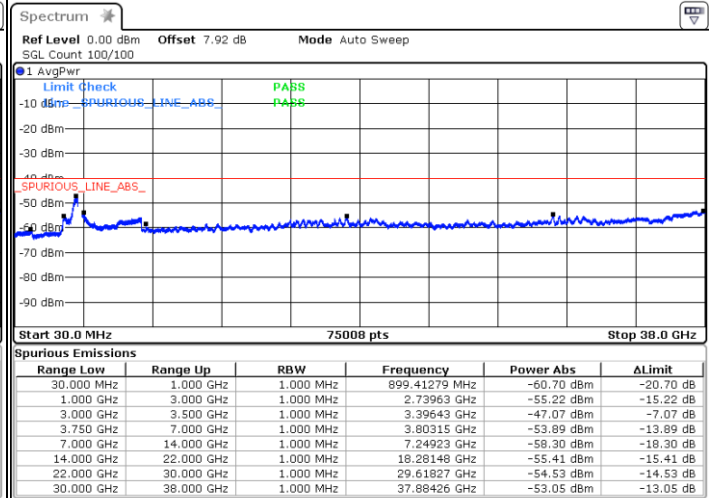
16QAM

Lowest Channel / Full RB

Middle Channel / Full RB



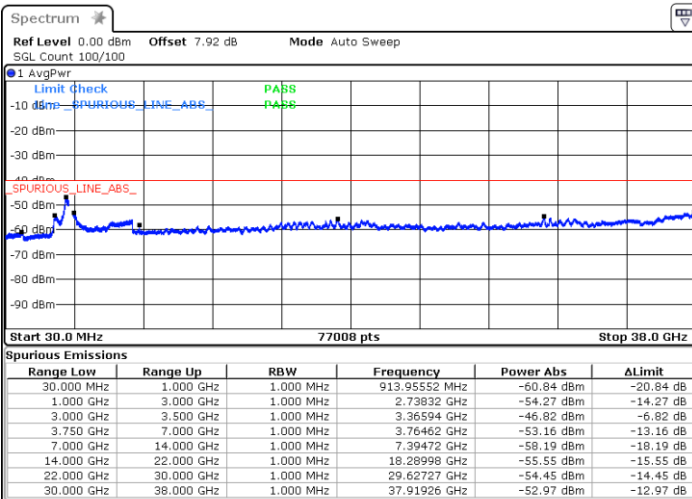
Date: 16 SEP 2020 04:47:04



Date: 16 SEP 2020 04:52:28

Highest Channel / Full RB

N/A



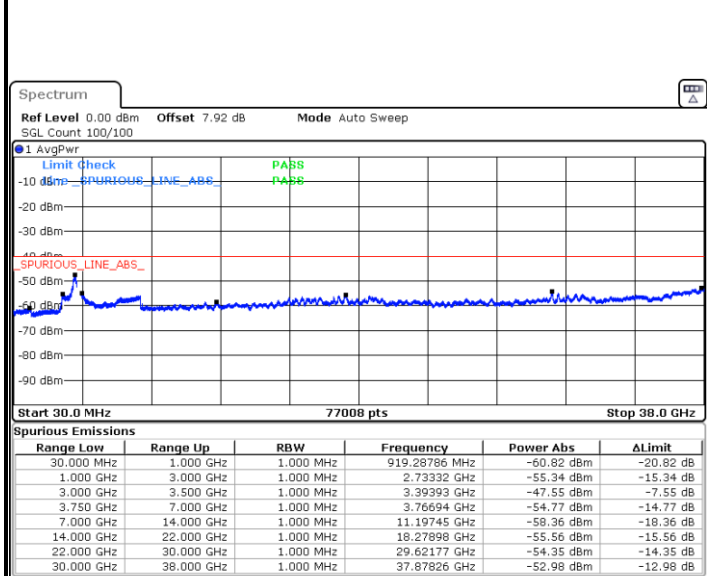
Date: 16 SEP 2020 04:56:47



LTE Band 48 / 10MHz

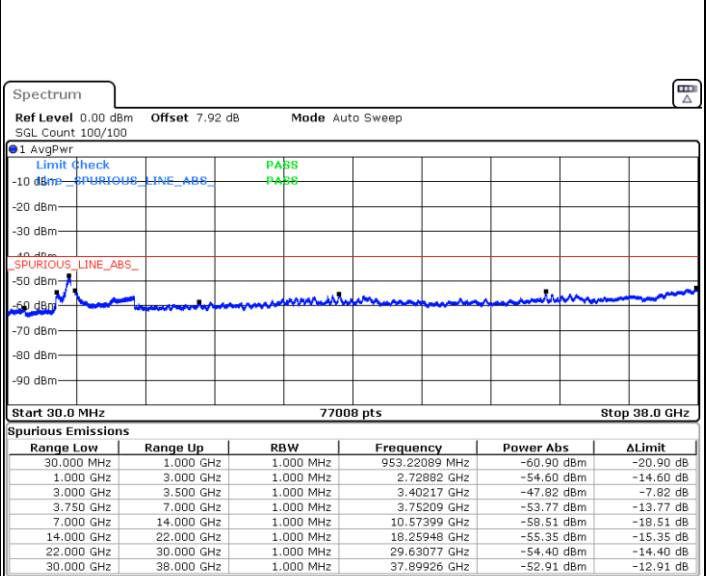
16QAM

Lowest Channel / Full RB



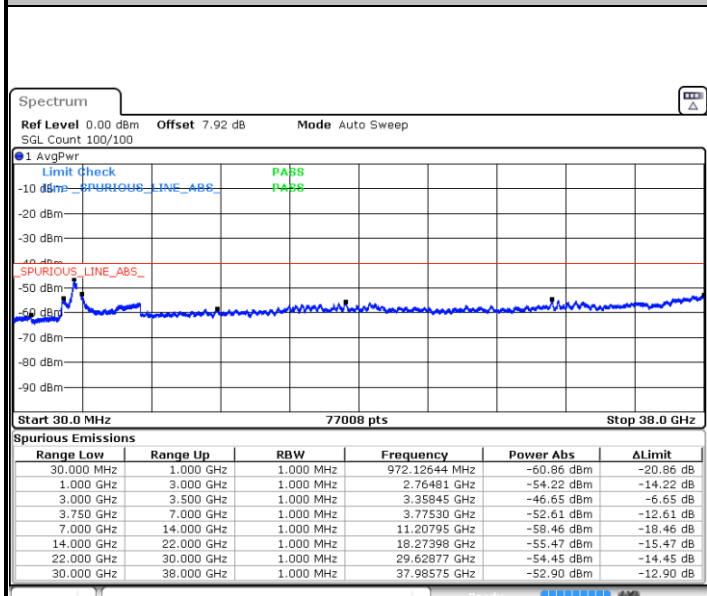
Date: 16 SEP 2020 05:04:22

Middle Channel / Full RB



Date: 16 SEP 2020 05:11:18

Highest Channel / Full RB



Date: 16 SEP 2020 05:14:50

N/A

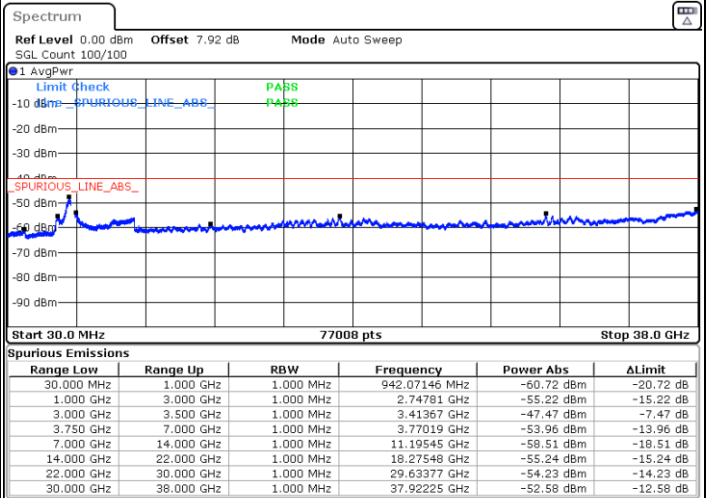
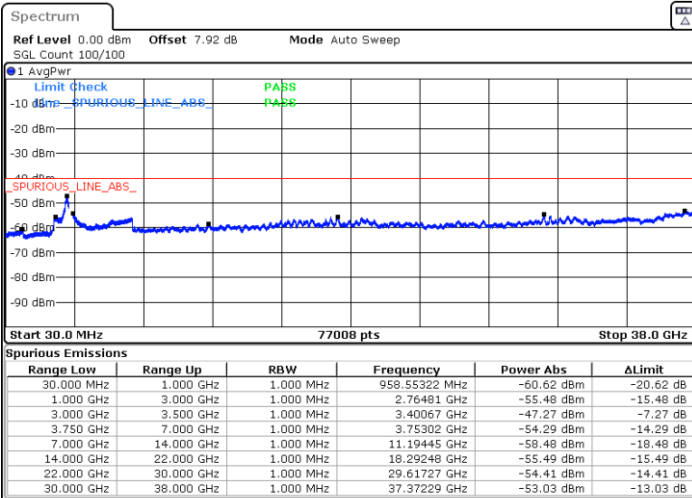


LTE Band 48 / 15MHz

16QAM

Lowest Channel / Full RB

Middle Channel / Full RB

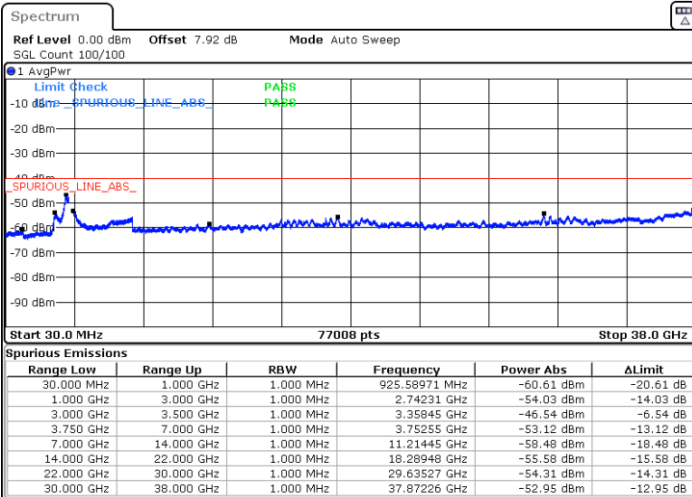


Date: 16 SEP 2020 05:20:23

Date: 16 SEP 2020 05:25:20

Highest Channel / Full RB

N/A



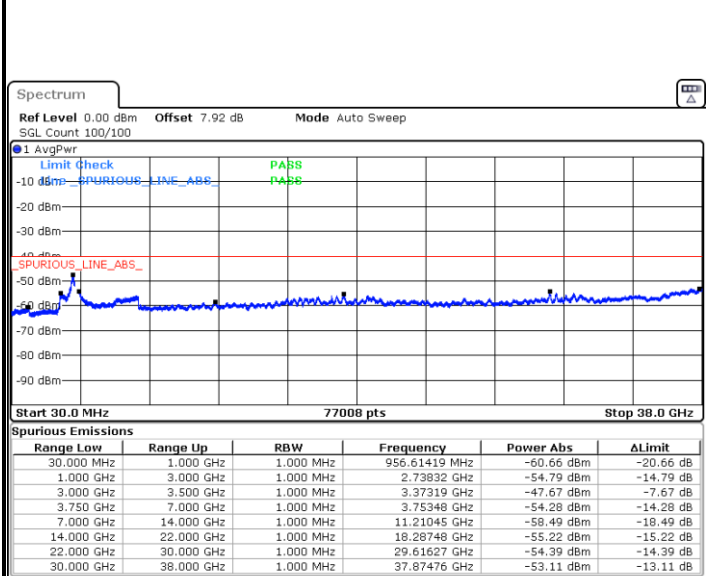
Date: 16 SEP 2020 05:39:11



LTE Band 48 / 20MHz

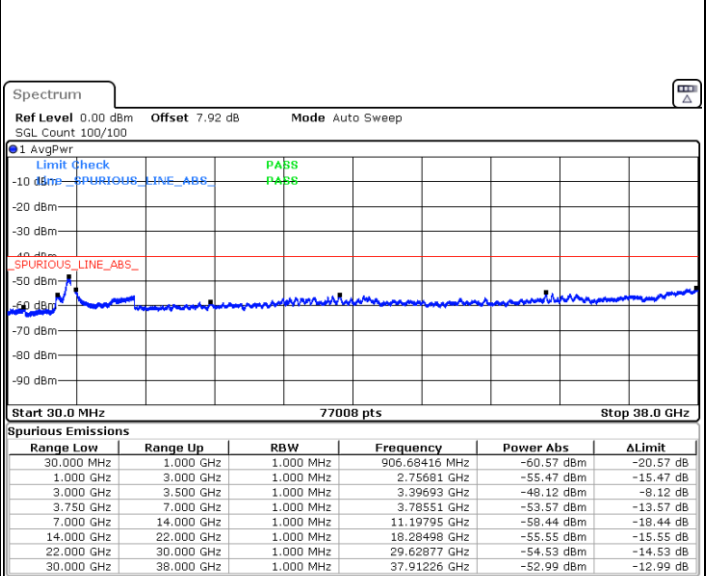
16QAM

Lowest Channel / Full RB



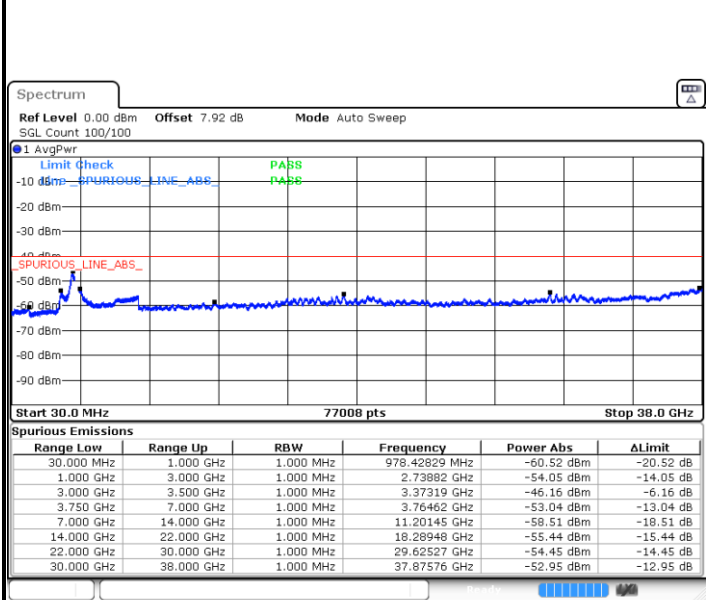
Date: 16 SEP 2020 05:43:18

Middle Channel / Full RB



Date: 16 SEP 2020 05:46:42

Highest Channel / Full RB



Date: 16 SEP 2020 05:50:25

N/A

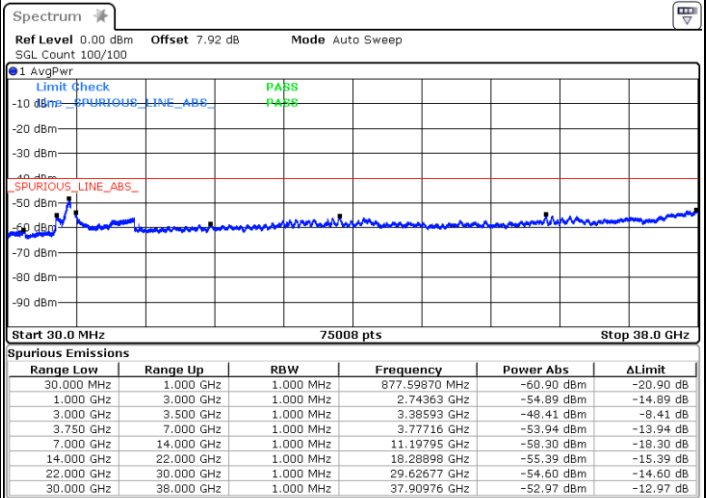
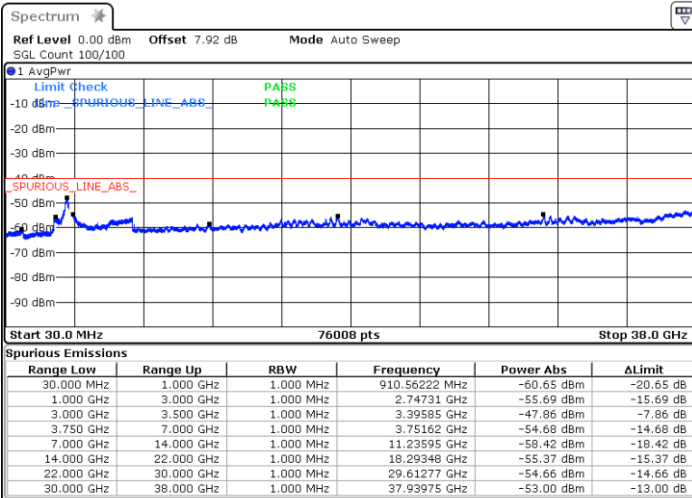


LTE Band 48 / 5MHz

64QAM

Lowest Channel / Full RB

Middle Channel / Full RB

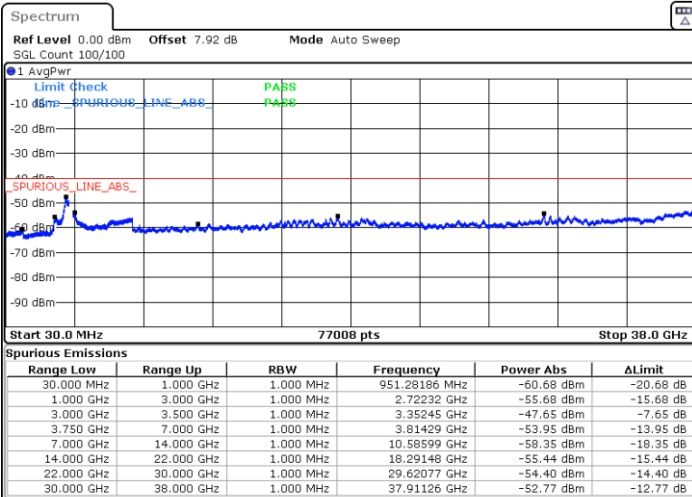


Date: 16 SEP 2020 04:48:19

Date: 16 SEP 2020 04:53:57

Highest Channel / Full RB

N/A



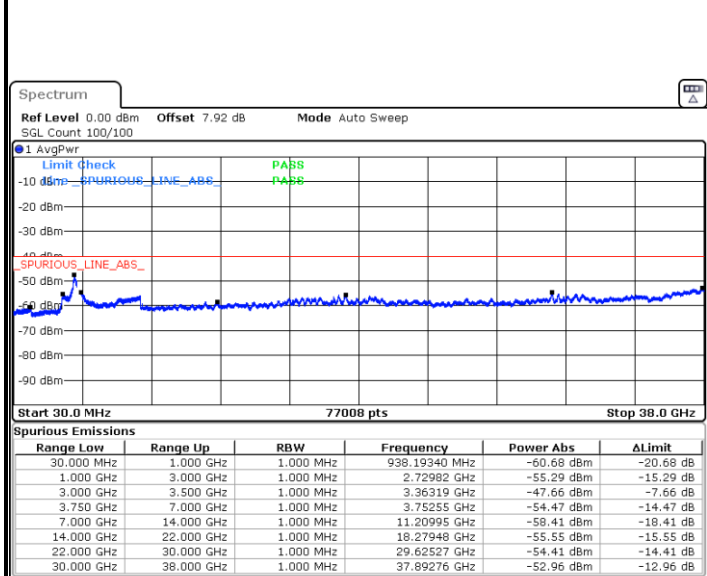
Date: 16 SEP 2020 05:01:28



LTE Band 48 / 10MHz

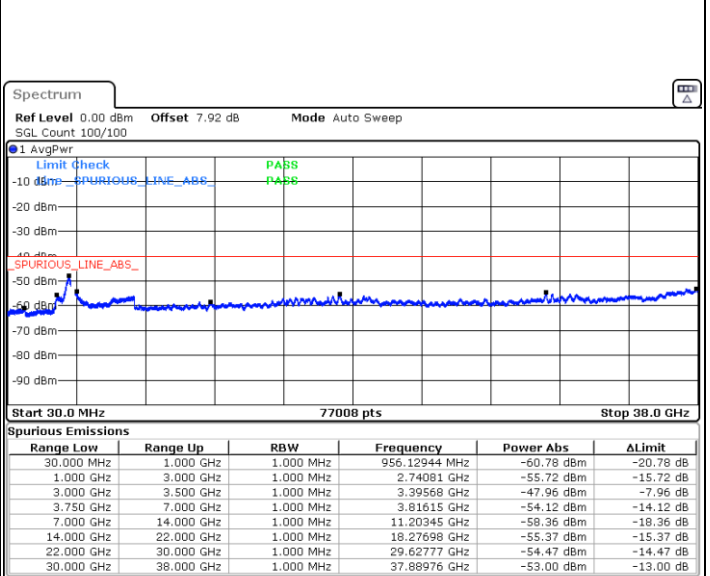
64QAM

Lowest Channel / Full RB



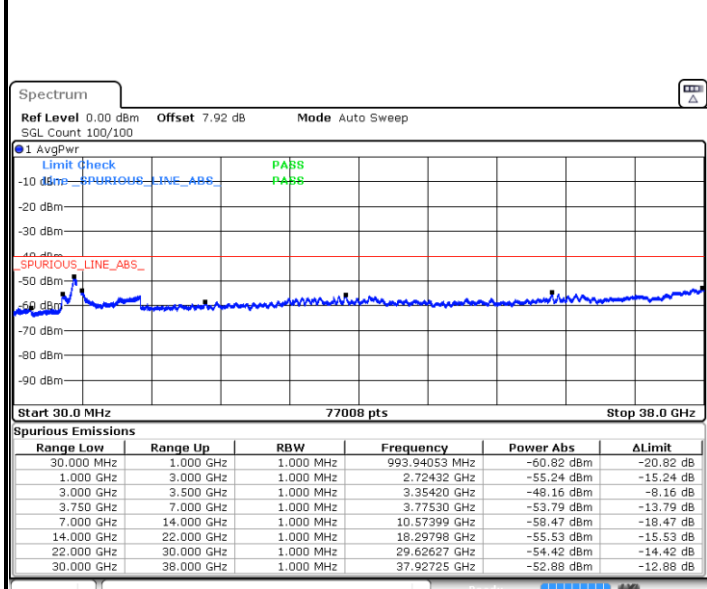
Date: 16 SEP 2020 05:08:43

Middle Channel / Full RB



Date: 16 SEP 2020 05:12:34

Highest Channel / Full RB



Date: 16 SEP 2020 05:15:54

N/A

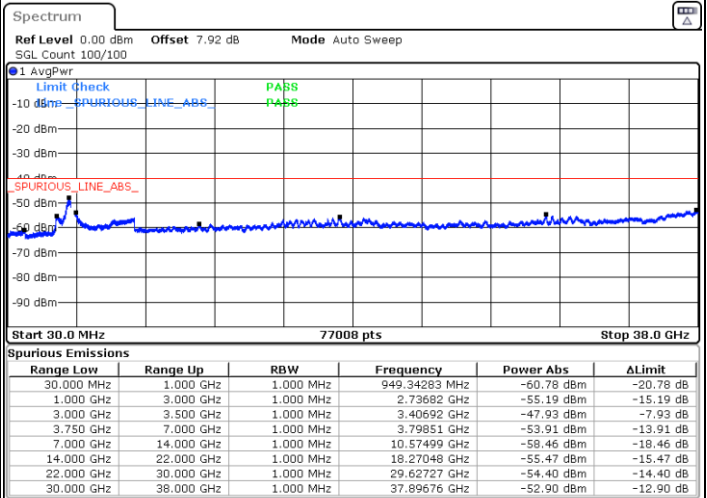
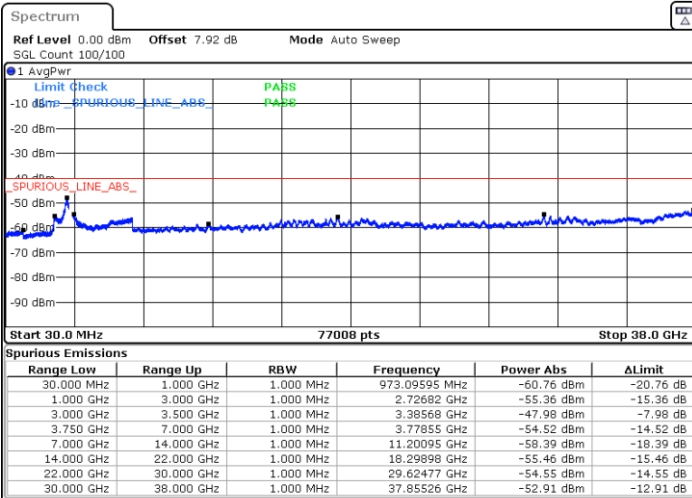


LTE Band 48 / 15MHz

64QAM

Lowest Channel / Full RB

Middle Channel / Full RB

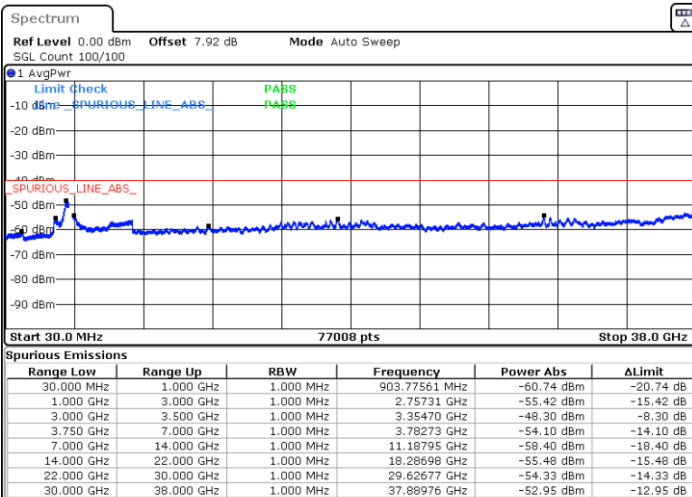


Date: 16 SEP 2020 05:21:37

Date: 16 SEP 2020 05:36:19

Highest Channel / Full RB

N/A



Date: 16 SEP 2020 05:40:34

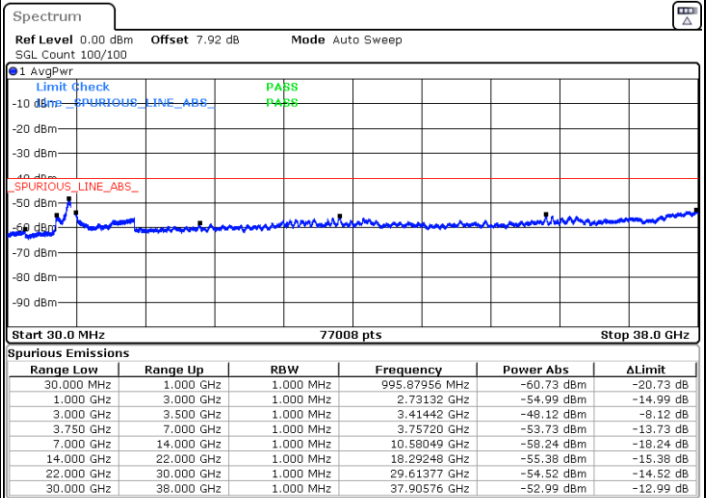
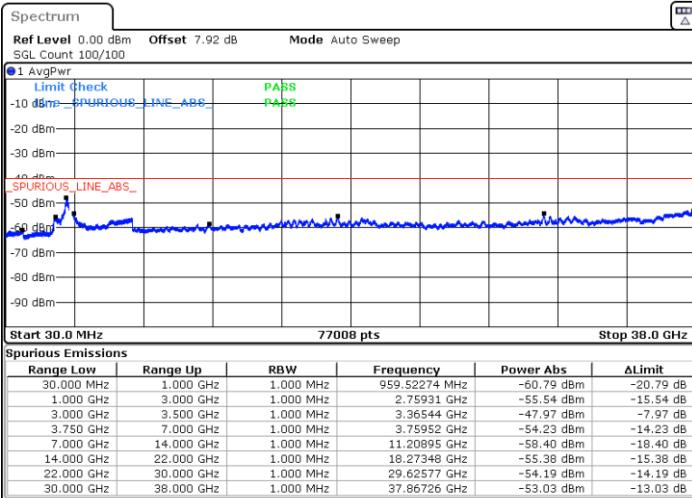


LTE Band 48 / 20MHz

64QAM

Lowest Channel / Full RB

Middle Channel / Full RB

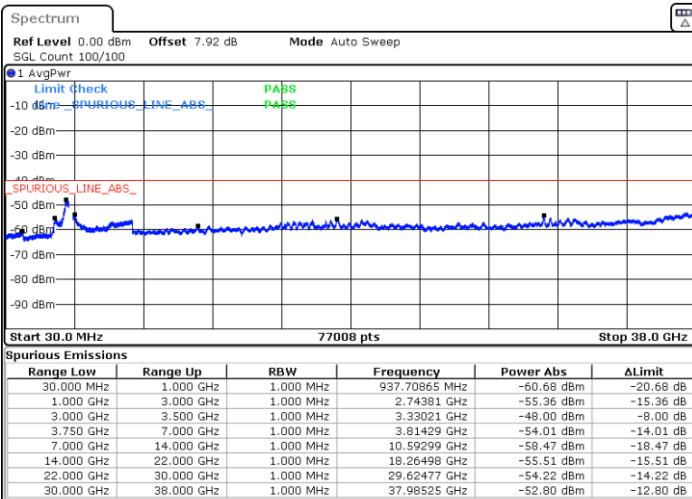


Date: 16 SEP 2020 05:44:25

Date: 16 SEP 2020 05:47:45

Highest Channel / Full RB

N/A



Date: 16 SEP 2020 05:51:30



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	0.0015	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =52 V. : Battery End Point (BEP) =48 V. : Maximum Voltage =56V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

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	-53.07	-40	-13.07	-64.53	2.84	14.30	H
	10848	-55.05	-40	-15.05	-64.99	3.49	13.43	H
	14466	-48.59	-40	-8.59	-58.83	3.85	14.09	H
	7230	-51.09	-40	-11.09	-62.55	2.84	14.30	V
	10848	-55.44	-40	-15.44	-65.38	3.49	13.43	V
	14466	-52.59	-40	-12.59	-62.83	3.85	14.09	V

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