

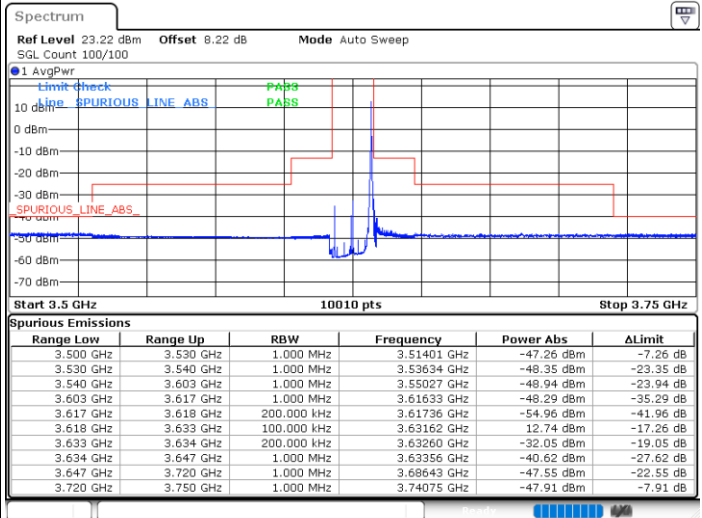
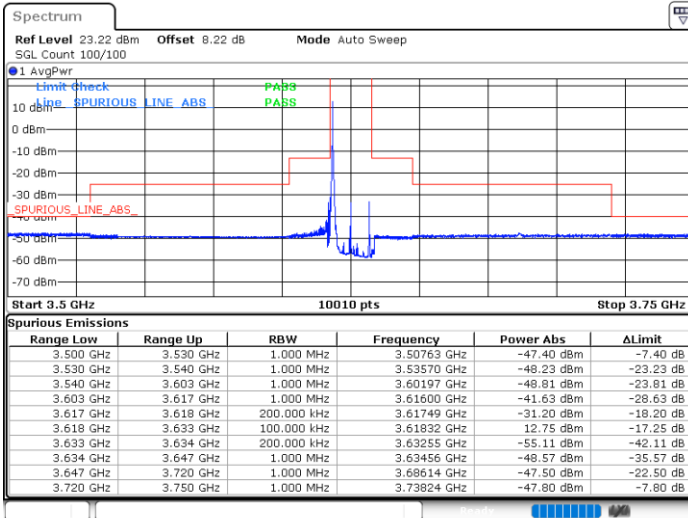


LTE Band 48 / 15MHz

256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

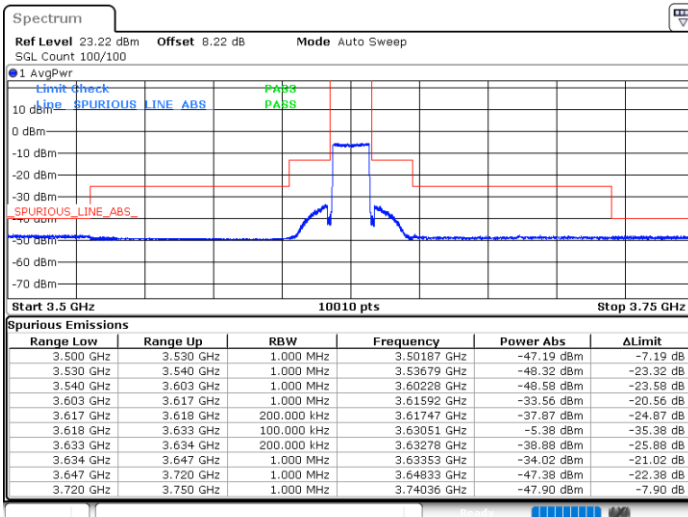


Date: 27.JUL.2021 14:33:32

Date: 27.JUL.2021 14:24:13

Middle Channel / FullIRB

N/A



Date: 27.JUL.2021 14:36:12

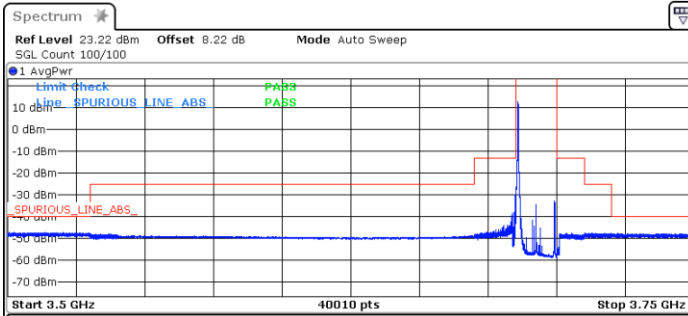


LTE Band 48 / 15MHz

256QAM

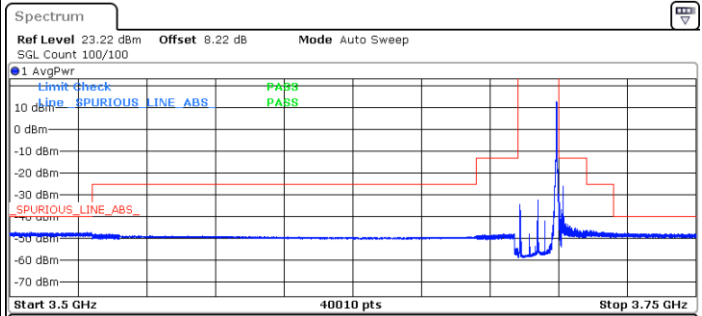
Highest Channel / 1RB0

Highest Channel / 1RBmax



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51363 GHz	-47.21 dBm	-7.21 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53014 GHz	-47.87 dBm	-22.87 dB
3.540 GHz	3.670 GHz	1.000 MHz	3.66631 GHz	-48.72 dBm	-23.72 dB
3.670 GHz	3.684 GHz	1.000 MHz	3.68382 GHz	-38.49 dBm	-25.49 dB
3.684 GHz	3.685 GHz	200.000 kHz	3.68499 GHz	-29.61 dBm	-16.61 dB
3.685 GHz	3.700 GHz	100.000 kHz	3.68585 GHz	12.80 dBm	-17.20 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70058 GHz	-54.12 dBm	-41.12 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70535 GHz	-47.63 dBm	-34.63 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71176 GHz	-47.61 dBm	-22.61 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72225 GHz	-47.60 dBm	-7.60 dB

Date: 27.JUL.2021 14:47:59

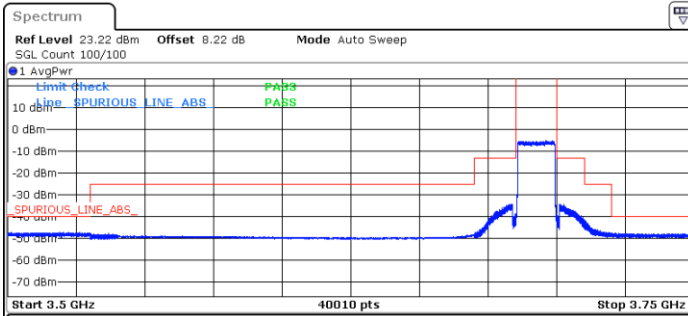


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50714 GHz	-47.10 dBm	-7.10 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53748 GHz	-48.05 dBm	-23.05 dB
3.540 GHz	3.670 GHz	1.000 MHz	3.54028 GHz	-48.77 dBm	-23.77 dB
3.670 GHz	3.684 GHz	1.000 MHz	3.68383 GHz	-47.80 dBm	-34.80 dB
3.684 GHz	3.685 GHz	200.000 kHz	3.68475 GHz	-54.49 dBm	-41.49 dB
3.685 GHz	3.700 GHz	100.000 kHz	3.69917 GHz	12.91 dBm	-17.09 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70006 GHz	-29.57 dBm	-16.57 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70158 GHz	-26.10 dBm	-13.10 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71044 GHz	-46.32 dBm	-21.32 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72128 GHz	-47.71 dBm	-7.71 dB

Date: 27.JUL.2021 14:56:30

Highest Channel / FullIRB

N/A



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50126 GHz	-47.28 dBm	-7.28 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53669 GHz	-47.71 dBm	-22.71 dB
3.540 GHz	3.670 GHz	1.000 MHz	3.66982 GHz	-47.81 dBm	-22.81 dB
3.670 GHz	3.684 GHz	1.000 MHz	3.68251 GHz	-34.28 dBm	-21.28 dB
3.684 GHz	3.685 GHz	200.000 kHz	3.68499 GHz	-39.94 dBm	-25.94 dB
3.685 GHz	3.700 GHz	100.000 kHz	3.69619 GHz	-5.25 dBm	-35.25 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70001 GHz	-38.67 dBm	-25.67 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70255 GHz	-34.39 dBm	-21.39 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71008 GHz	-41.50 dBm	-16.50 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72157 GHz	-47.52 dBm	-7.52 dB

Date: 27.JUL.2021 14:44:39

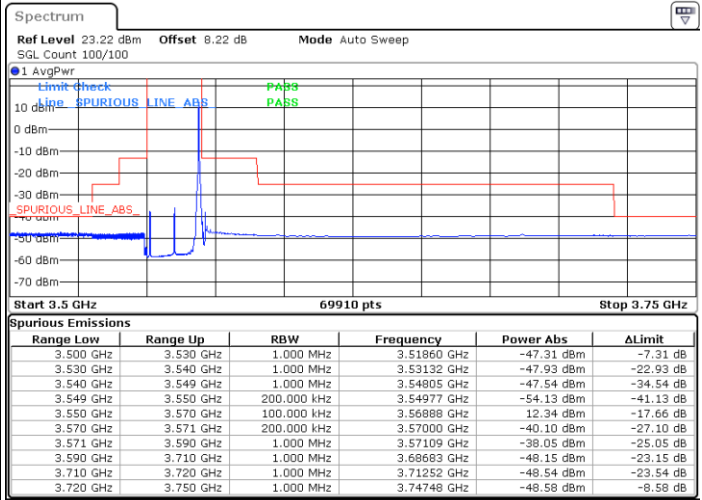
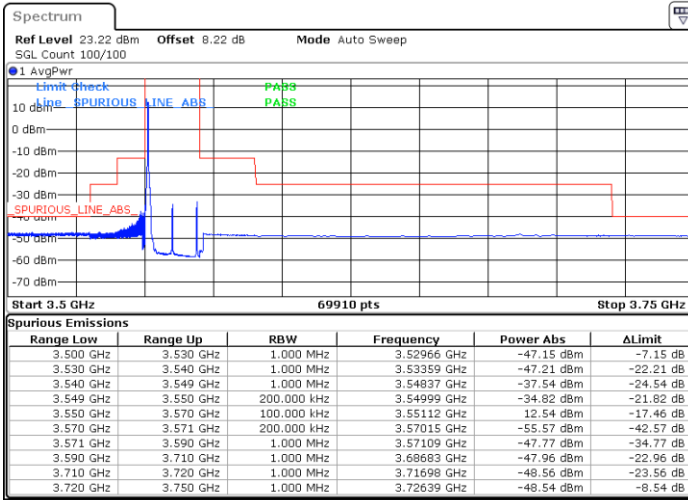


LTE Band 48 / 20MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

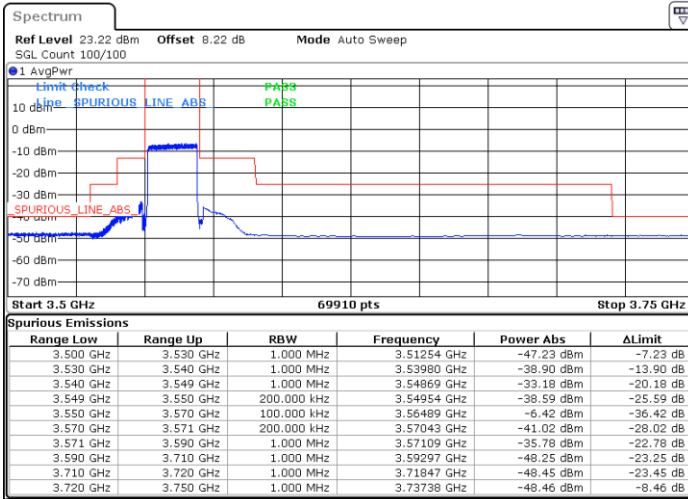


Date: 27.JUL.2021 15:32:38

Date: 27.JUL.2021 15:48:16

Lowest Channel / FullIRB

N/A



Date: 27.JUL.2021 15:27:38

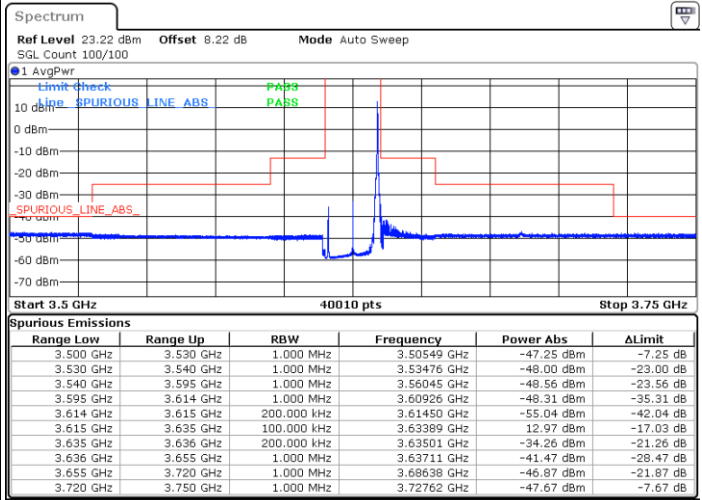
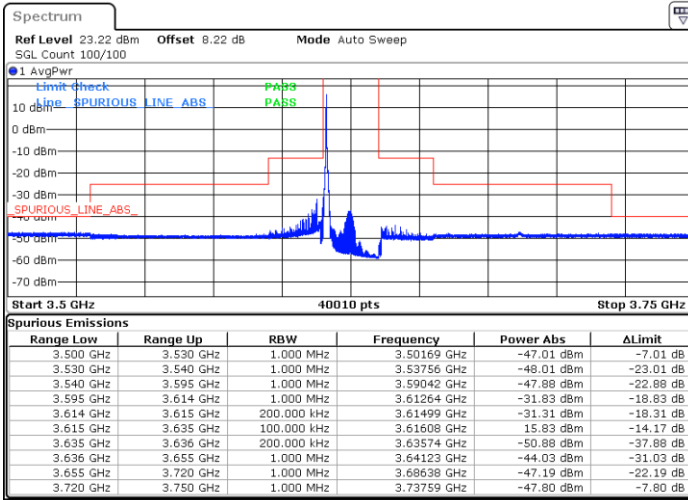


LTE Band 48 / 20MHz

256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

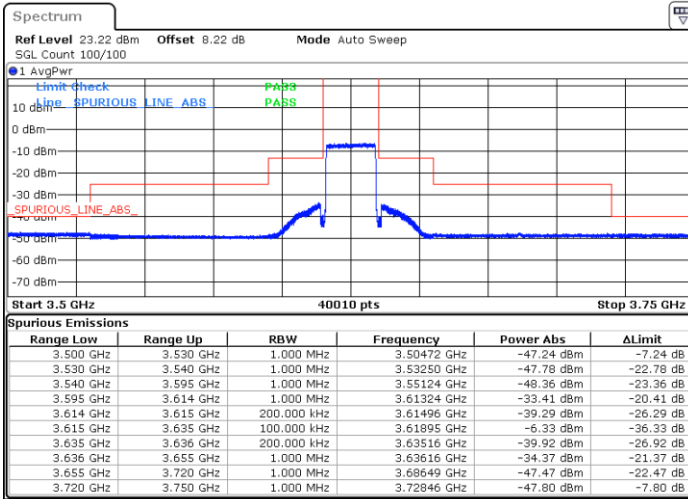


Date: 27.JUL.2021 16:17:03

Date: 27.JUL.2021 16:10:16

Middle Channel / FullIRB

N/A



Date: 27.JUL.2021 16:21:59

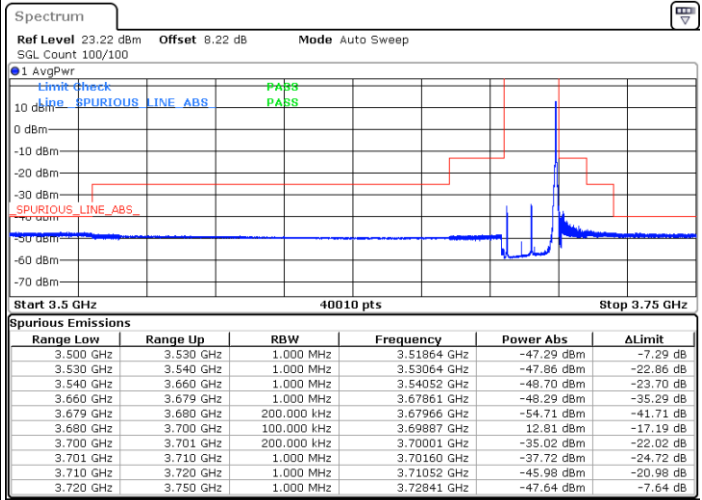
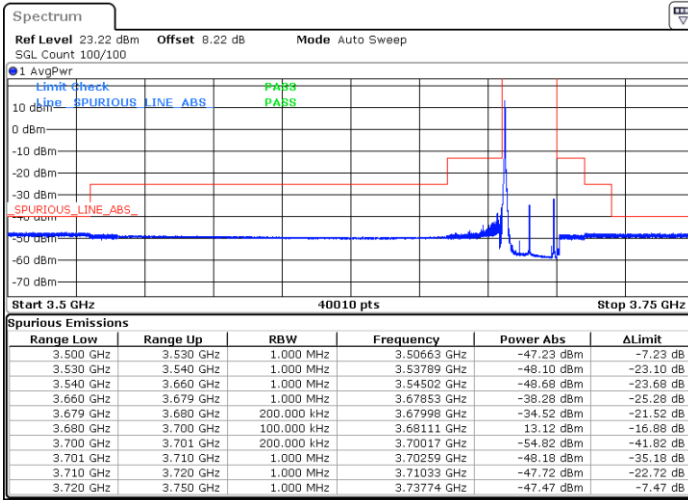


LTE Band 48 / 20MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

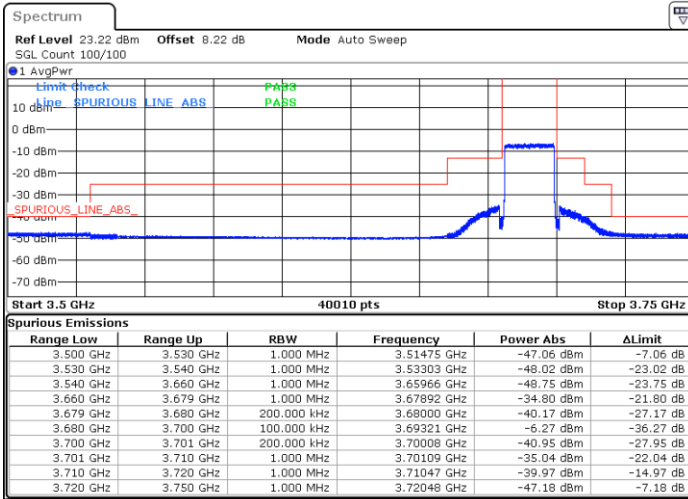


Date: 27.JUL.2021 16:38:41

Date: 27.JUL.2021 16:51:59

Highest Channel / FullIRB

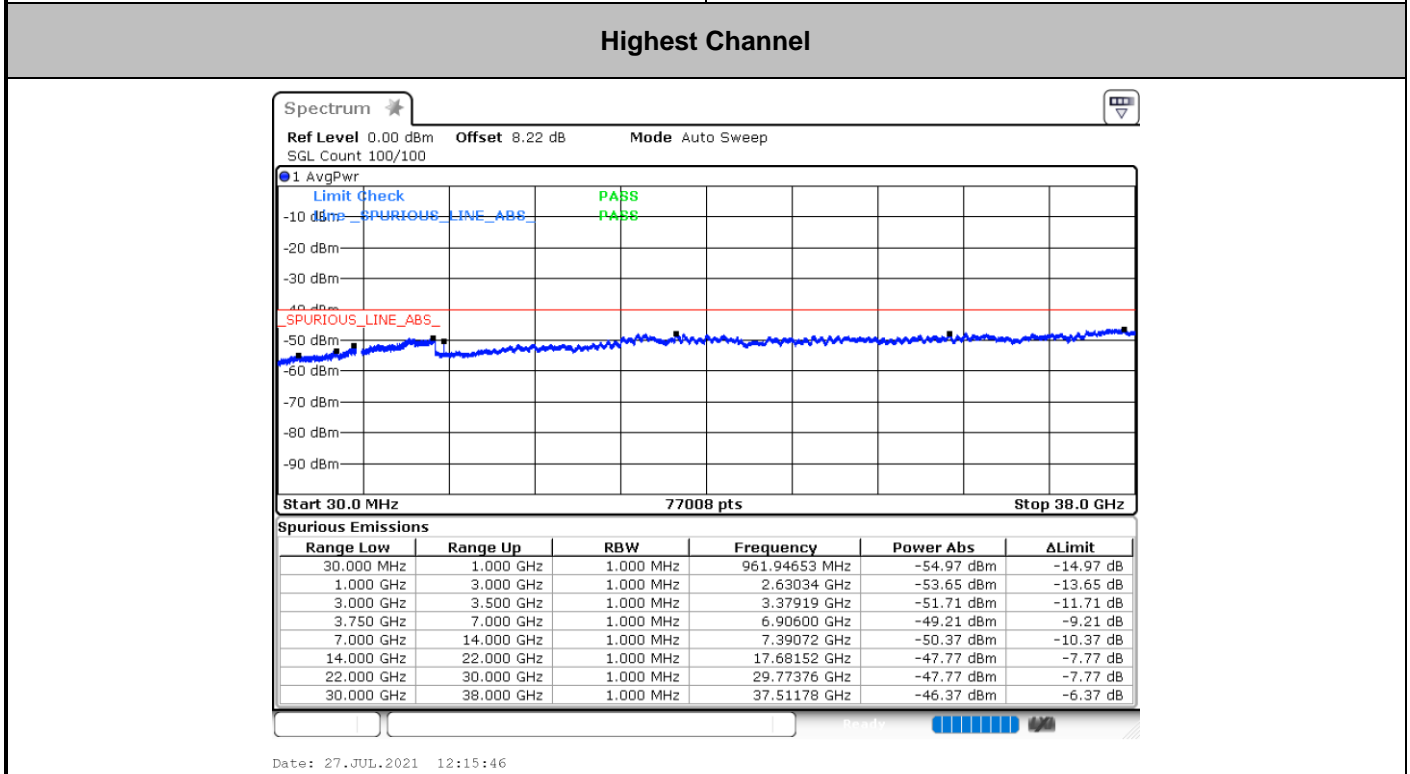
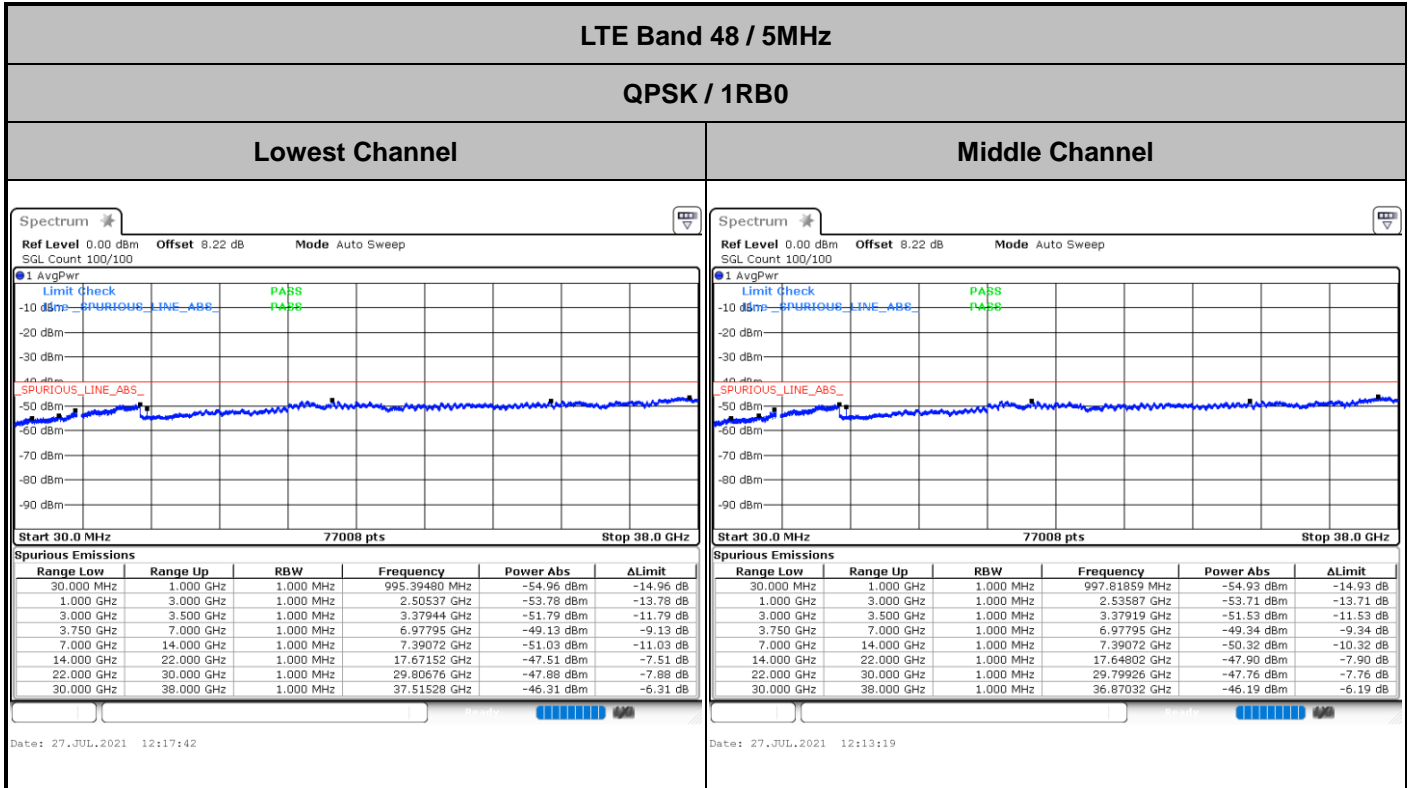
N/A



Date: 27.JUL.2021 16:35:09



# Conducted Spurious Emission



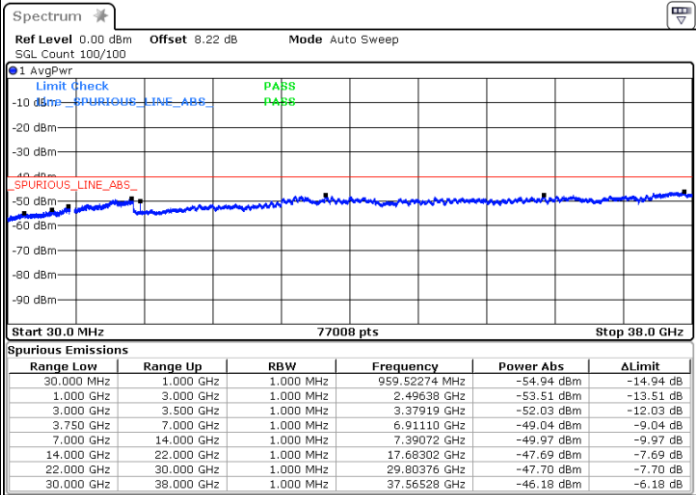
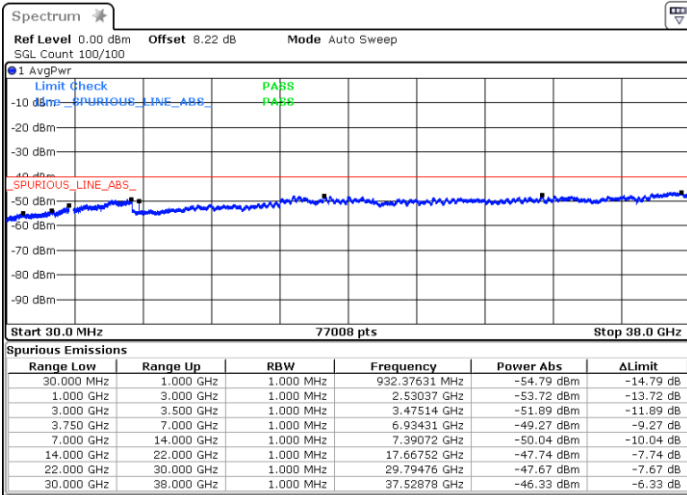


LTE Band 48 / 10MHz

QPSK / 1RB0

Lowest Channel

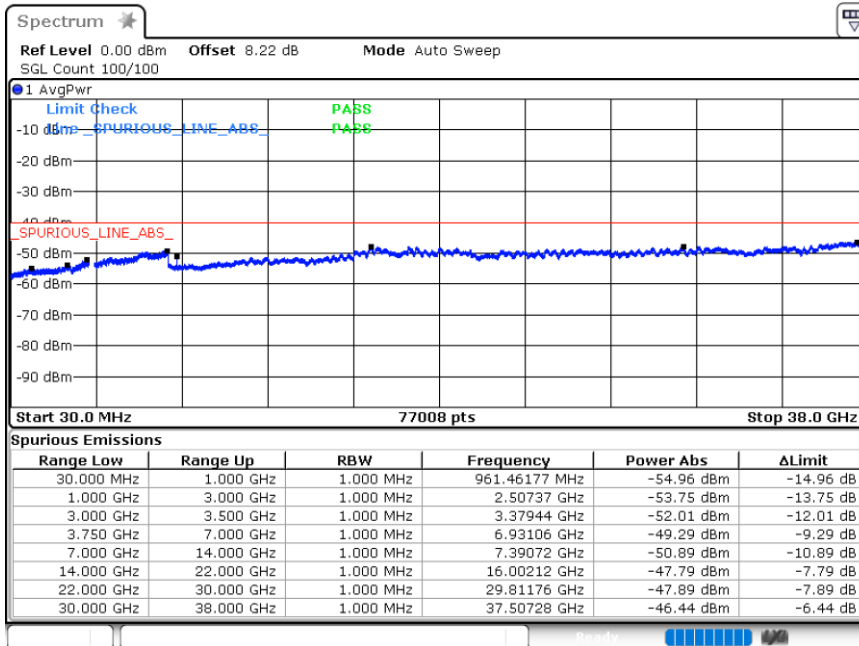
Middle Channel



Date: 27.JUL.2021 12:20:13

Date: 27.JUL.2021 12:29:17

Highest Channel



Date: 27.JUL.2021 12:33:17

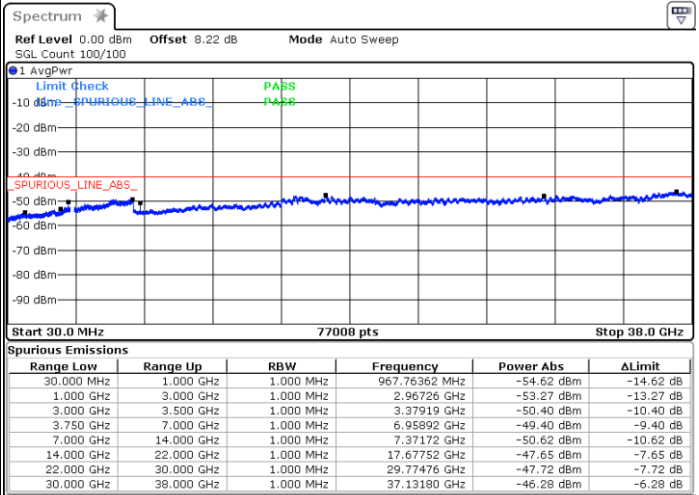
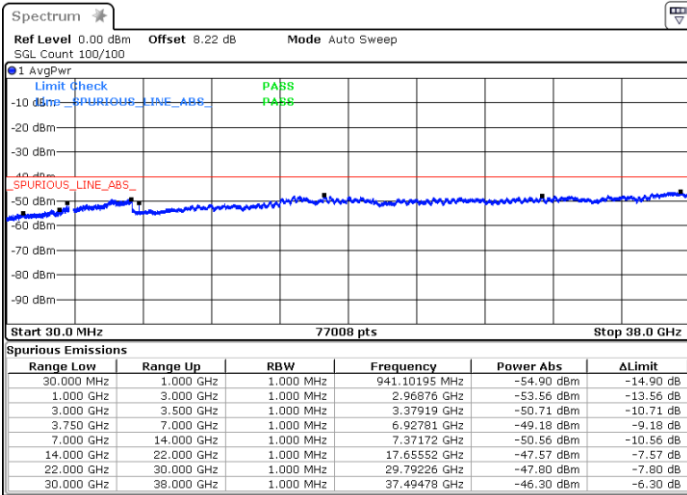


LTE Band 48 / 15MHz

QPSK / 1RB0

Lowest Channel

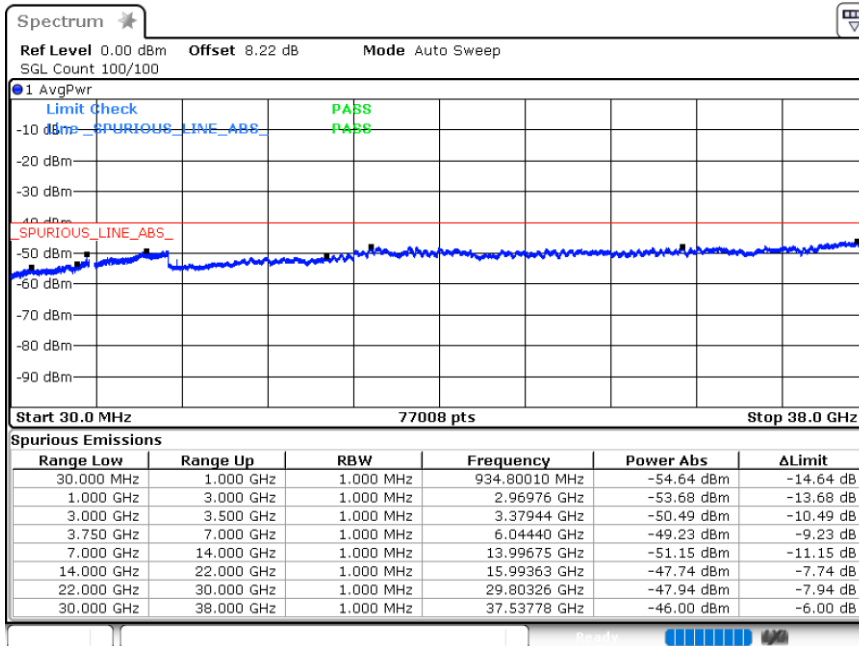
Middle Channel



Date: 27.JUL.2021 15:06:03

Date: 27.JUL.2021 15:02:48

Highest Channel



Date: 27.JUL.2021 15:00:15



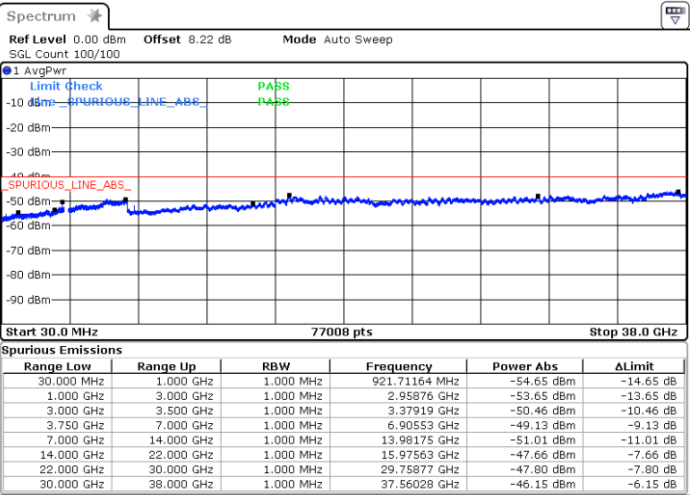
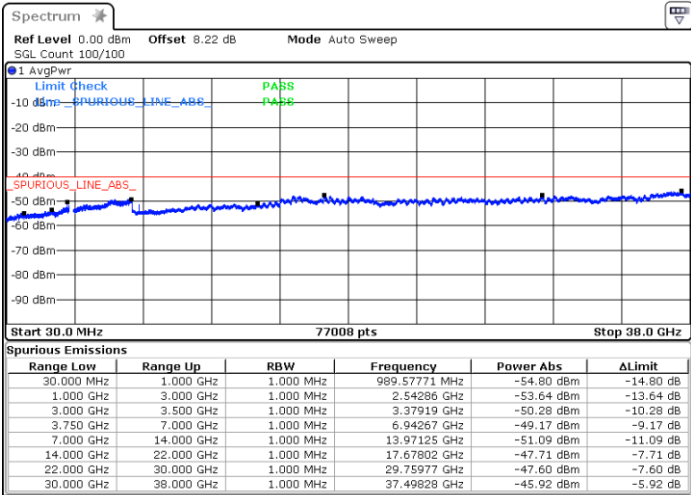


LTE Band 48 / 20MHz

QPSK / 1RB0

Lowest Channel

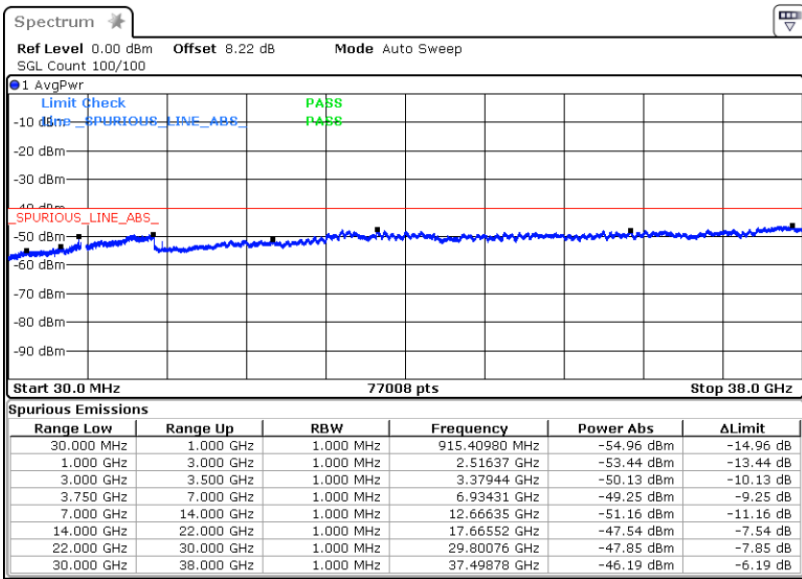
Middle Channel



Date: 27.JUL.2021 17:15:44

Date: 27.JUL.2021 16:56:33

Highest Channel



Date: 27.JUL.2021 16:55:06



Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0031	
20	Battery End Point	0.0042	

Note:

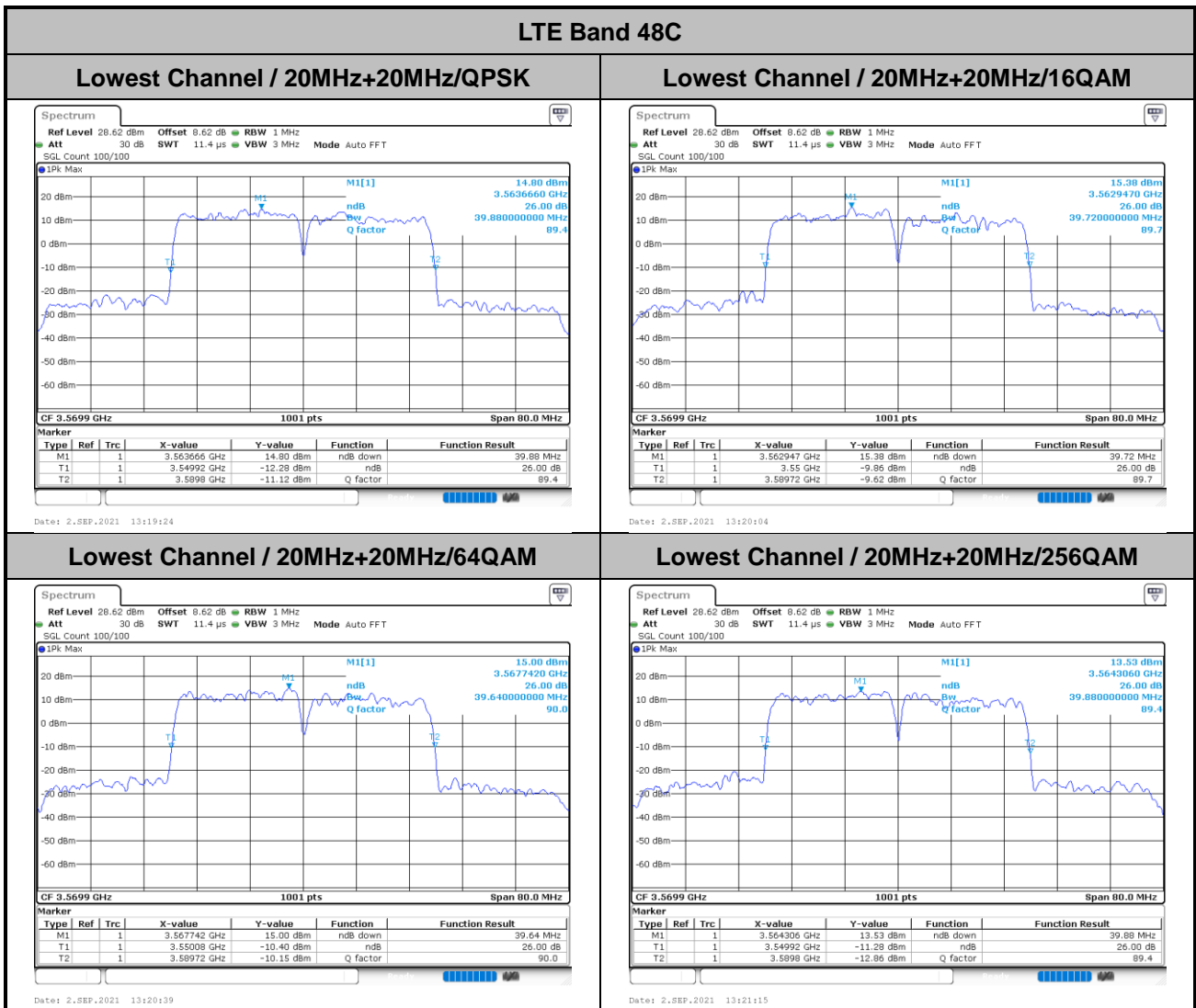
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 48C

## 26dB Bandwidth

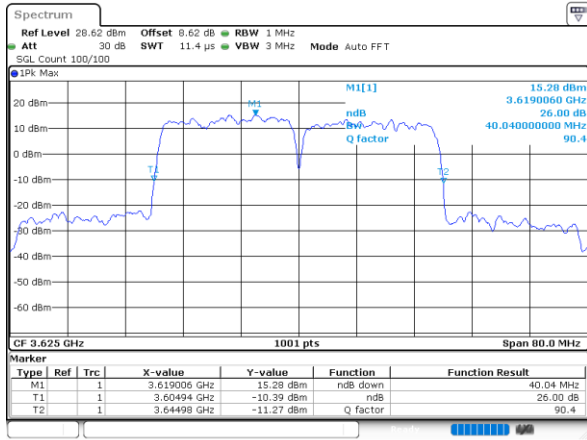
Mode	LTE Band 48C : 26dB BW(MHz)			
QPSK	QPSK	16QAM	64QAM	256QAM
BW	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz
Lowest CH	39.88	39.72	39.64	39.88
Middle CH	40.04	39.80	39.80	39.80
Highest CH	39.72	39.80	39.64	39.72





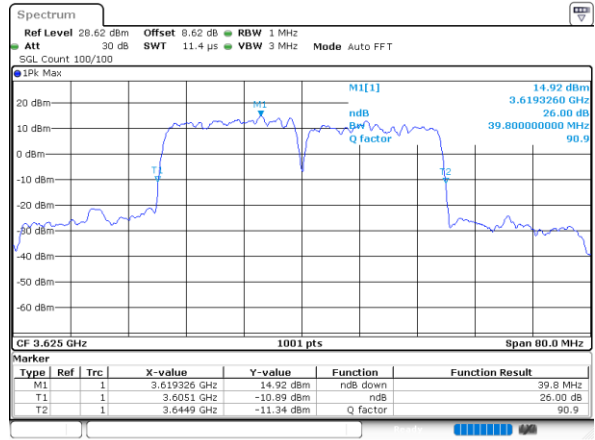
LTE Band 48C

Middle Channel / 20MHz+20MHz/QPSK



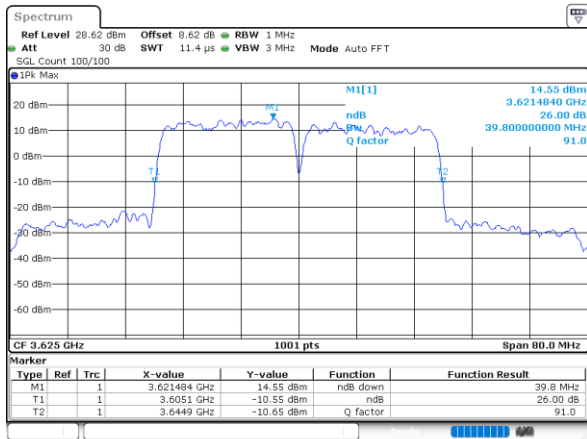
Date: 2,SEP,2021 13:18:19

Middle Channel / 20MHz+20MHz/16QAM



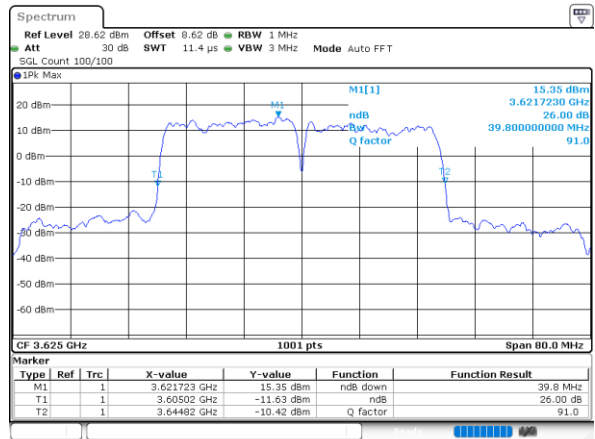
Date: 2,SEP,2021 13:17:43

Middle Channel / 20MHz+20MHz/64QAM



Date: 2,SEP,2021 13:17:07

Middle Channel / 20MHz+20MHz/256QAM

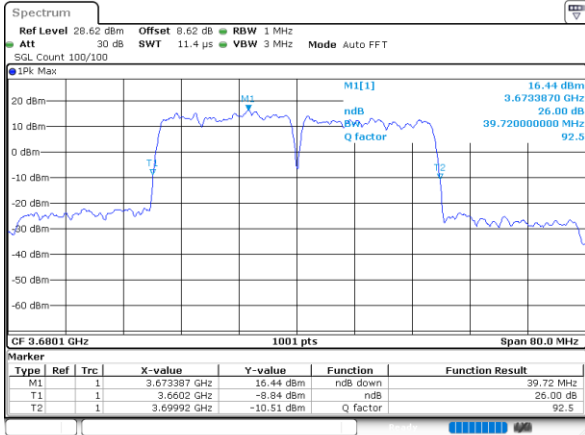


Date: 2,SEP,2021 13:16:08



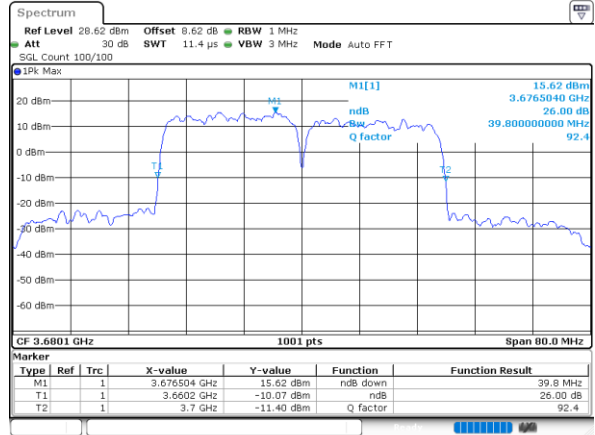
LTE Band 48C

Highest Channel / 20MHz+20MHz/QPSK



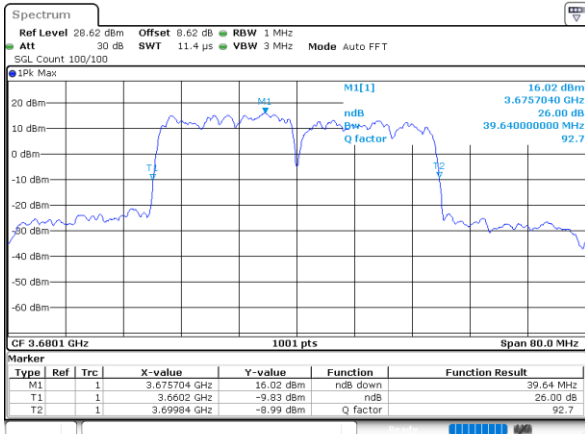
Date: 2,SEP,2021 13:06:21

Highest Channel / 20MHz+20MHz/16QAM



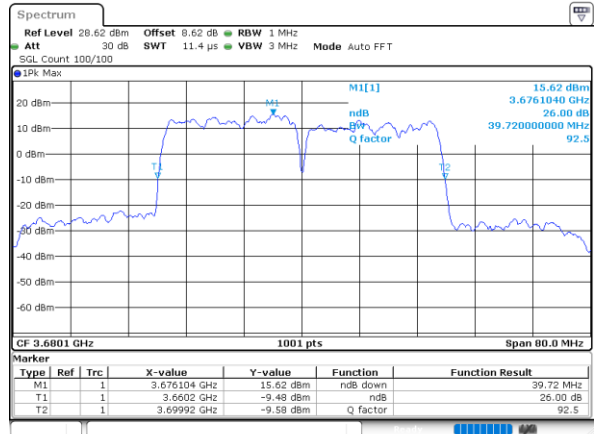
Date: 2,SEP,2021 13:07:18

Highest Channel / 20MHz+20MHz/64QAM



Date: 2,SEP,2021 13:12:24

Highest Channel / 20MHz+20MHz/256QAM

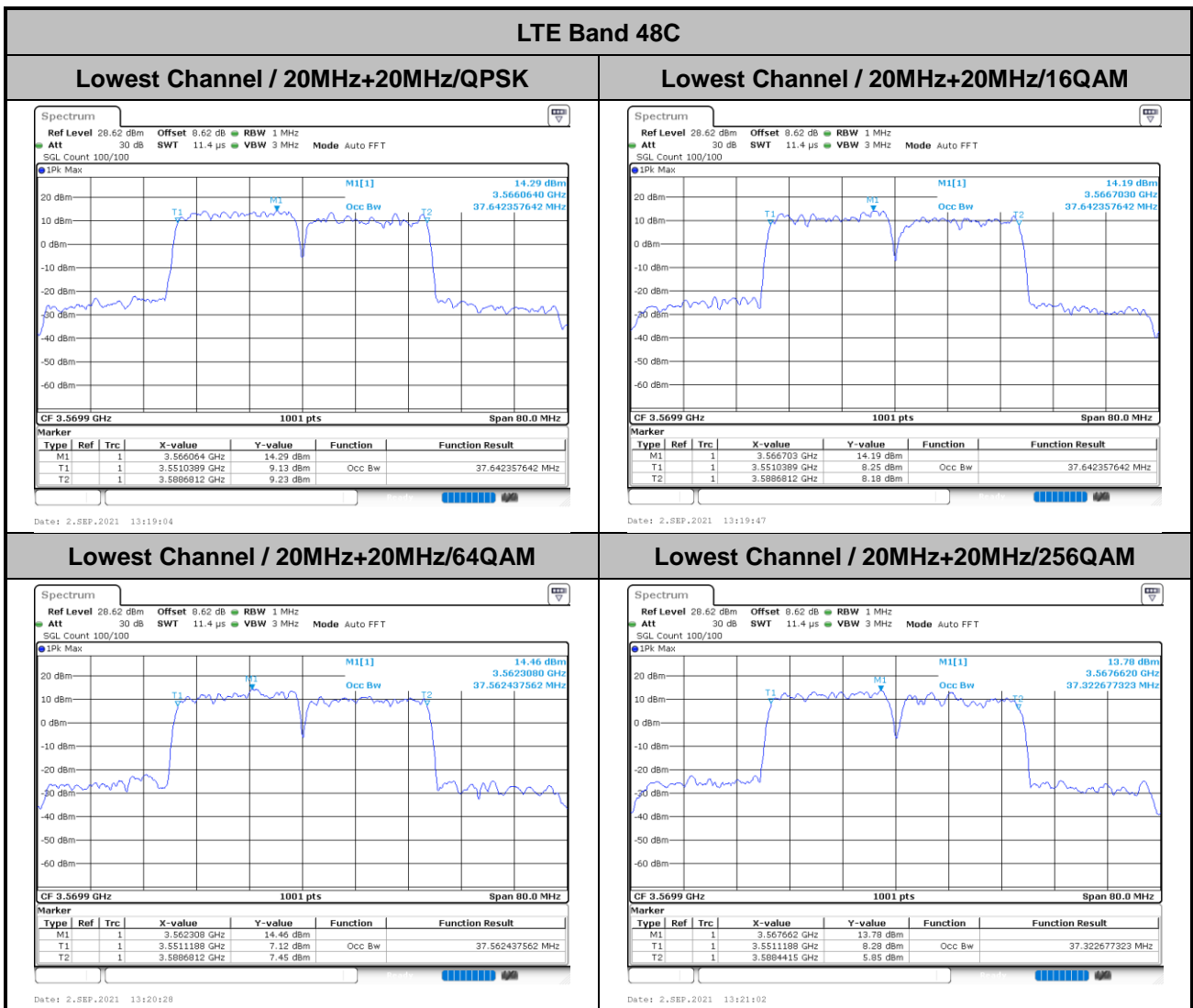


Date: 2,SEP,2021 13:13:06



# Occupied Bandwidth

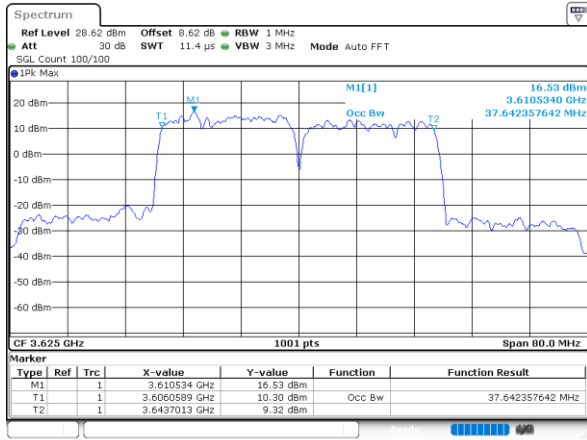
Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK	QPSK	16QAM	64QAM	256QAM
BW	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz
Lowest CH	37.64	37.64	37.56	37.32
Middle CH	37.64	37.64	37.72	37.64
Highest CH	37.56	37.96	37.48	37.72





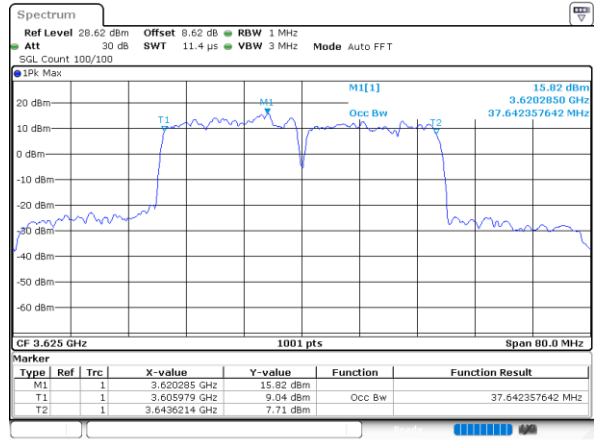
LTE Band 48C

Middle Channel / 20MHz+20MHz/QPSK



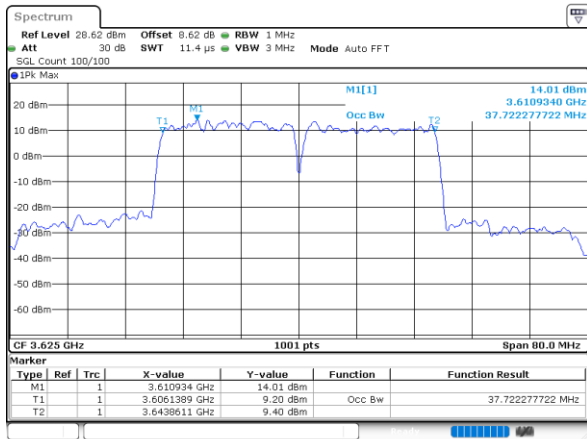
Date: 2.SEP.2021 13:18:07

Middle Channel / 20MHz+20MHz/16QAM



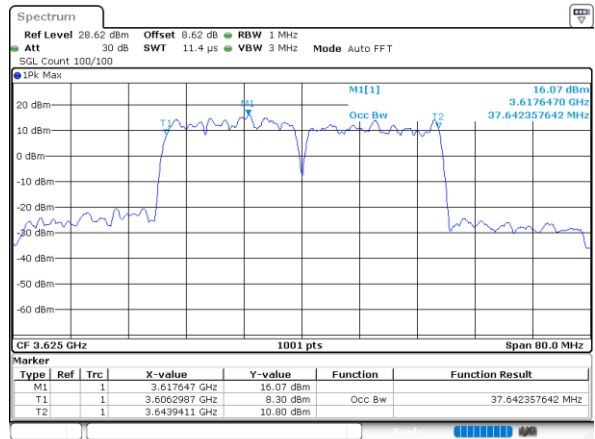
Date: 2.SEP.2021 13:17:29

Middle Channel / 20MHz+20MHz/64QAM



Date: 2.SEP.2021 13:16:50

Middle Channel / 20MHz+20MHz/256QAM

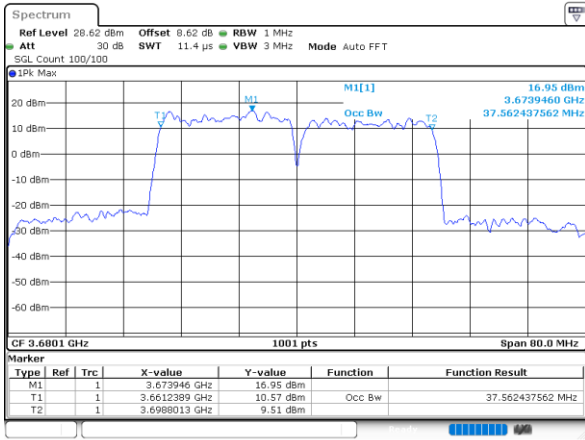


Date: 2.SEP.2021 13:15:56



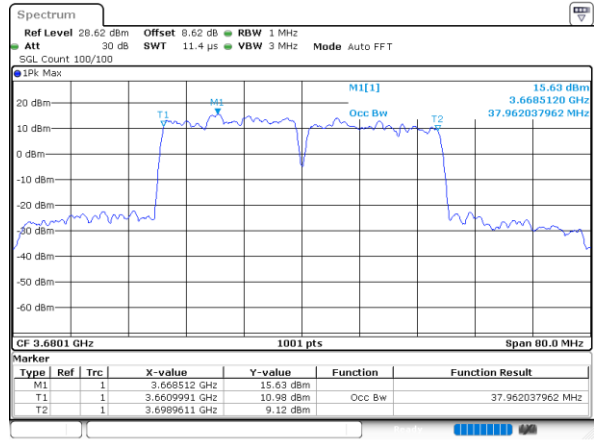
LTE Band 48C

Highest Channel / 20MHz+20MHz/QPSK



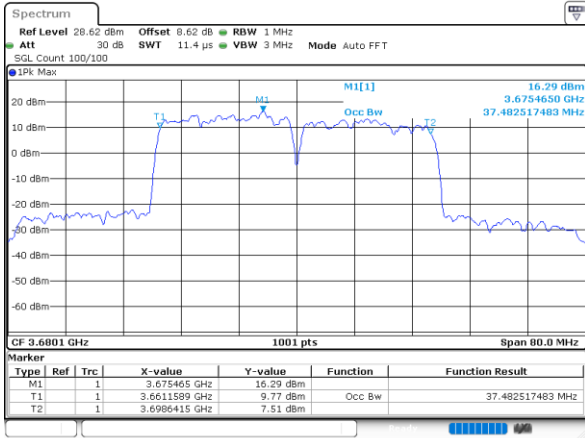
Date: 2.SEP.2021 13:06:04

Highest Channel / 20MHz+20MHz/16QAM



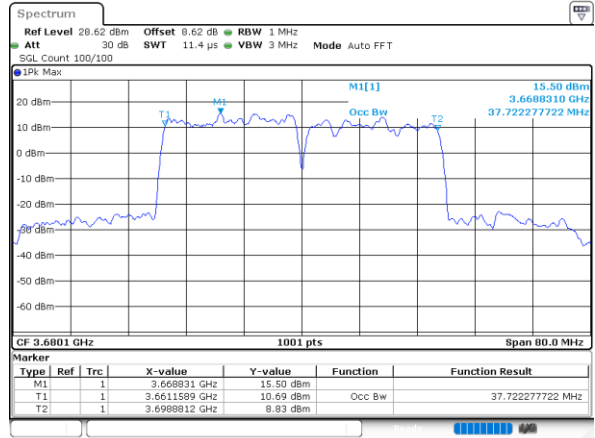
Date: 2.SEP.2021 13:07:04

Highest Channel / 20MHz+20MHz/64QAM



Date: 2.SEP.2021 13:12:09

Highest Channel / 20MHz+20MHz/256QAM



Date: 2.SEP.2021 13:12:47





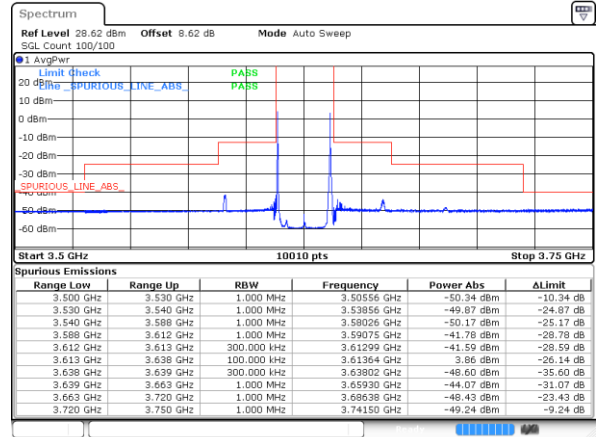
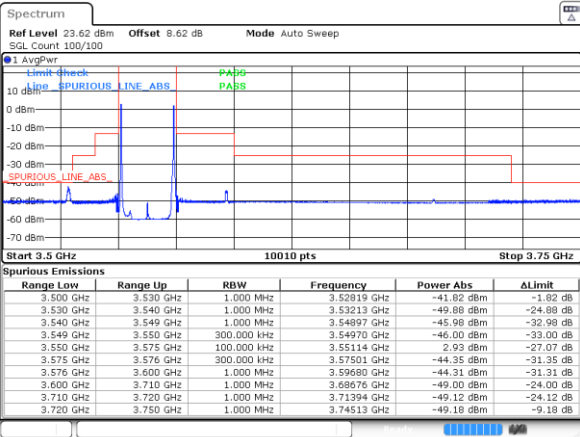
# Conducted Band Edge

## LTE Band 48C / 5MHz+20MHz

### QPSK

#### Lowest Band Edge / 1RB0 and 1RB99

#### Middle Band Edge / 1RB0 and 1RB99

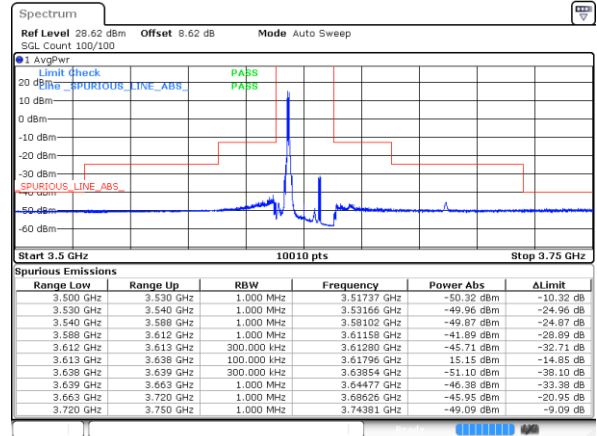
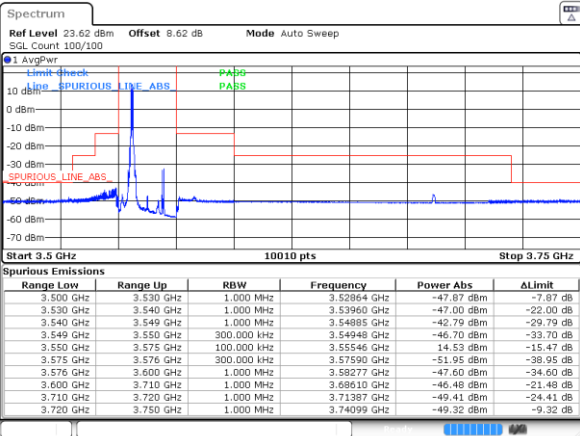


Date: 30 AUG 2021 23:31:31

Date: 31 AUG 2021 00:47:21

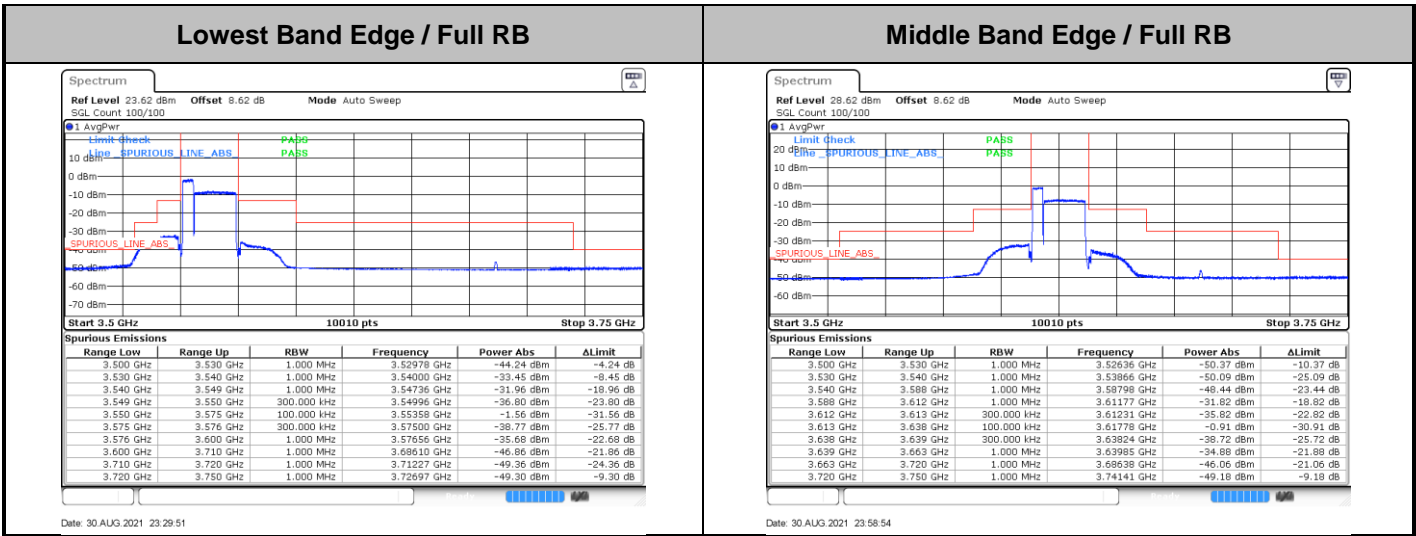
#### Lowest Band Edge / 1RB24 and 1RB0

#### Middle Band Edge / 1RB24 and 1RB0



Date: 30 AUG 2021 23:52:52

Date: 31 AUG 2021 00:48:53



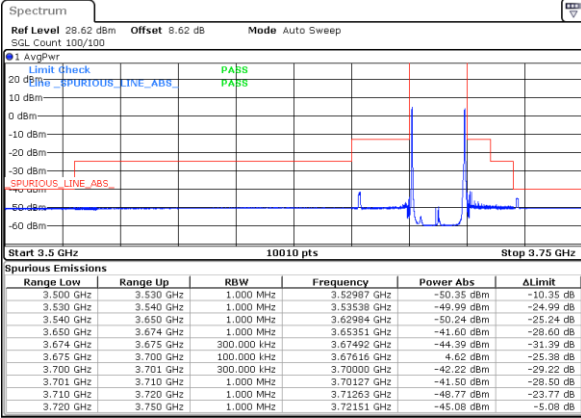


LTE Band 48C / 5MHz+20MHz

QPSK

Highest Band Edge / 1RB0 and 1RB99

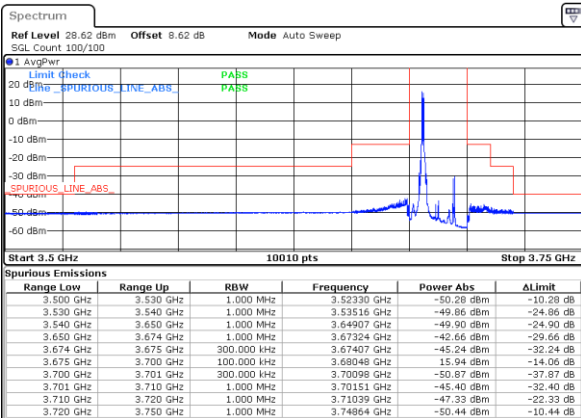
N/A



Date: 31 AUG 2021 01:10:42

Highest Band Edge / 1RB24 and 1RB0

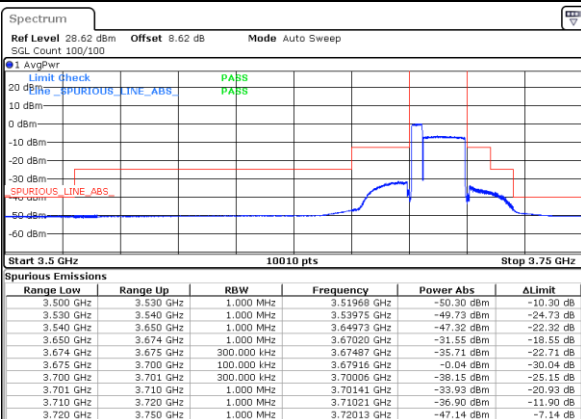
N/A



Date: 31 AUG 2021 01:28:23

Highest Band Edge / Full RB

N/A



Date: 31 AUG 2021 00:57:42

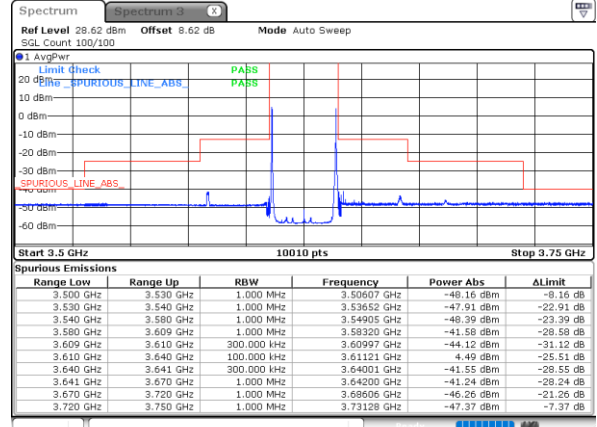
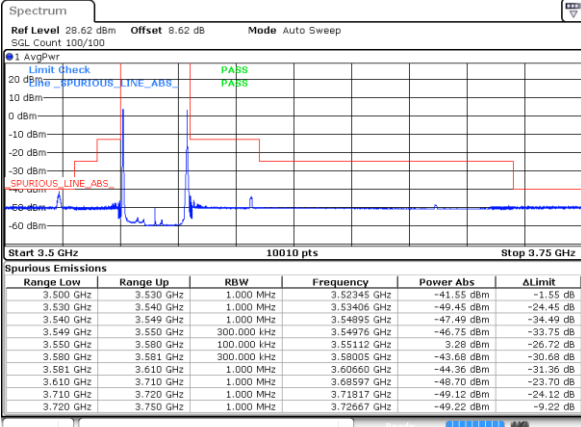


LTE Band 48C / 10MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99

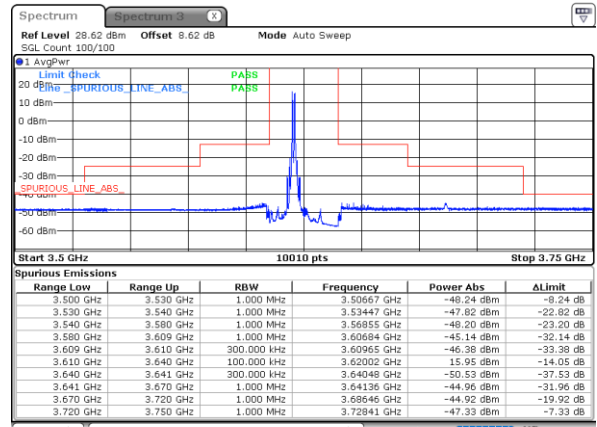
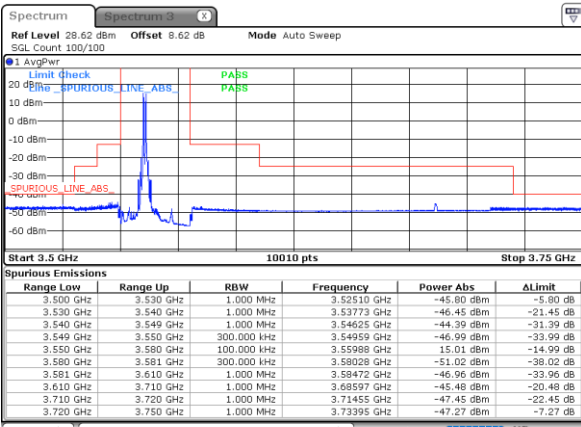


Date: 30 AUG 2021 16:06:29

Date: 31 AUG 2021 09:29:29

Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0

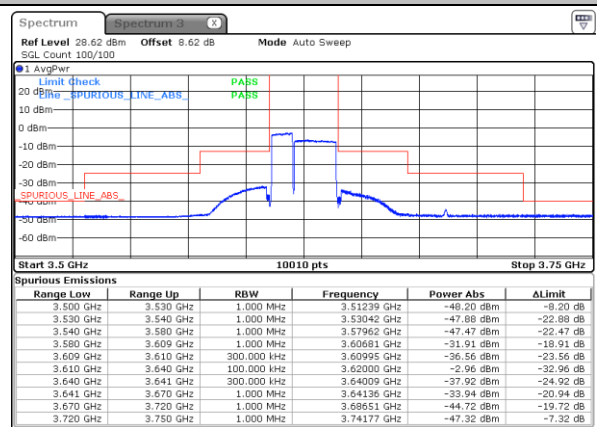
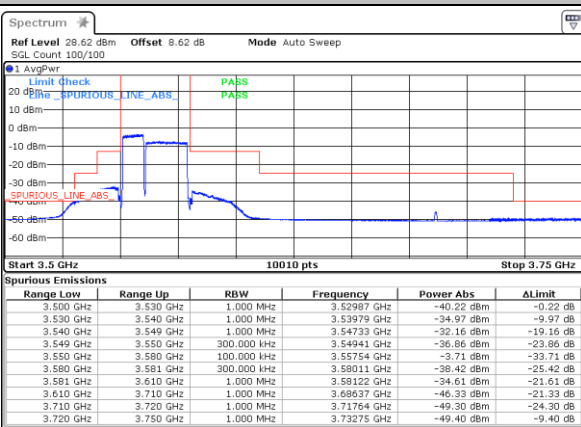


Date: 31 AUG 2021 08:54:43

Date: 31 AUG 2021 09:13:56

Lowest Band Edge / Full RB

Middle Band Edge / Full RB

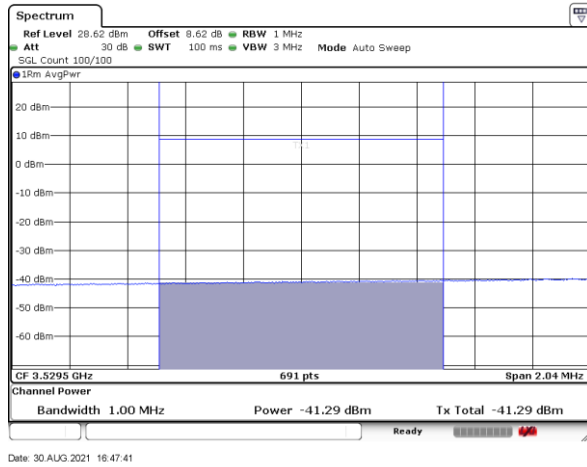


Date: 30 AUG 2021 16:44:38

Date: 31 AUG 2021 09:31:16



Verify Lowest Band Edge / Full RB



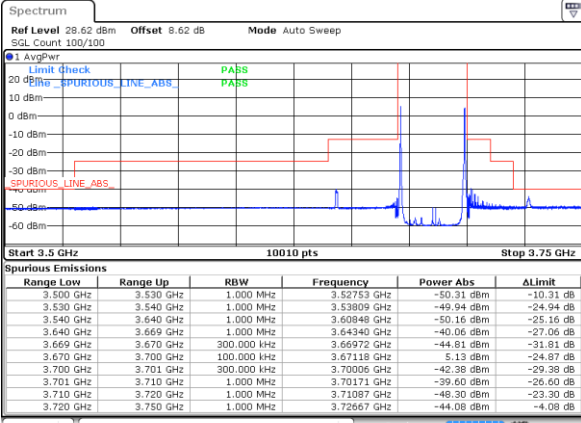


LTE Band 48C / 10MHz+20MHz

QPSK

Highest Band Edge / 1RB0 and 1RB99

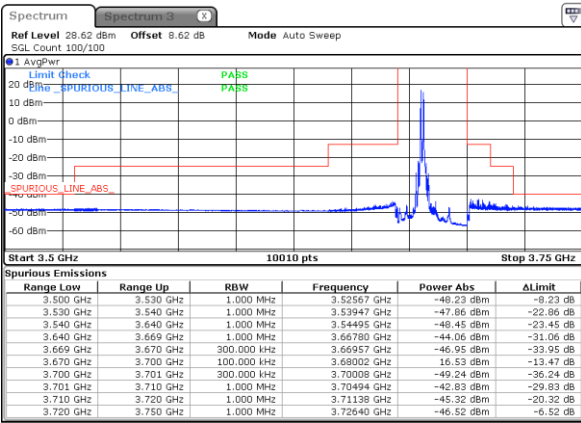
N/A



Date: 30 AUG 2021 16:55:06

Highest Band Edge / 1RB49 and 1RB0

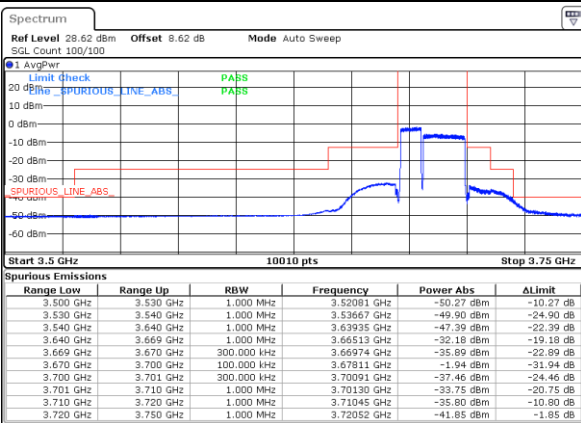
N/A



Date: 31.AUG.2021 09:11:00

Highest Band Edge / Full RB

N/A



Date: 30 AUG 2021 17:05:47

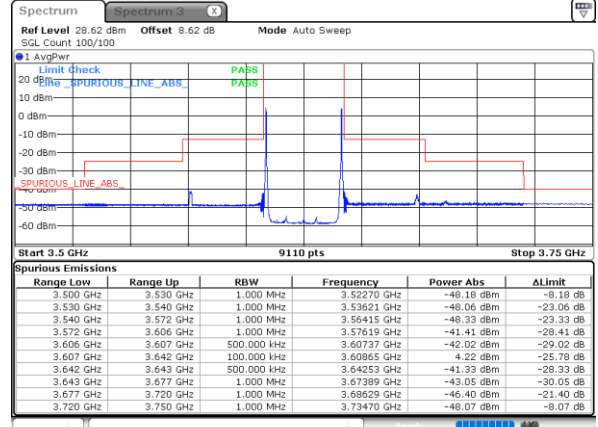
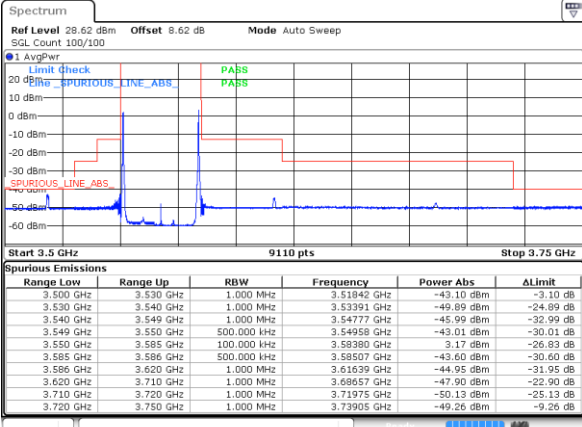


LTE Band 48C / 15MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99

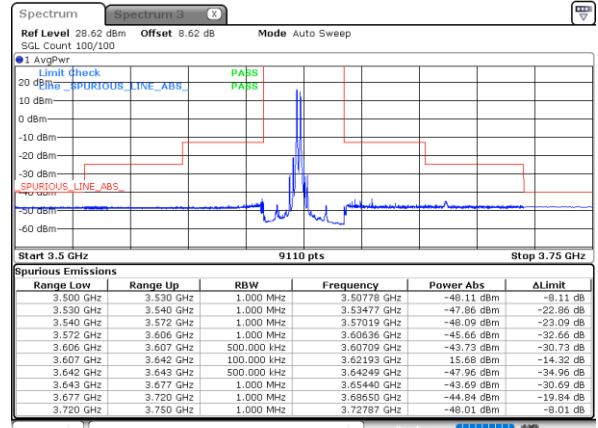
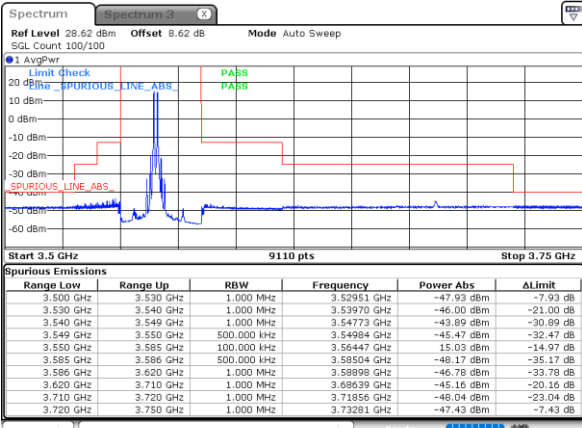


Date: 30 AUG 2021 19:27:08

Date: 31 AUG 2021 11:24:48

Lowest Band Edge / 1RB74 and 1RB0

Middle Band Edge / 1RB74 and 1RB0

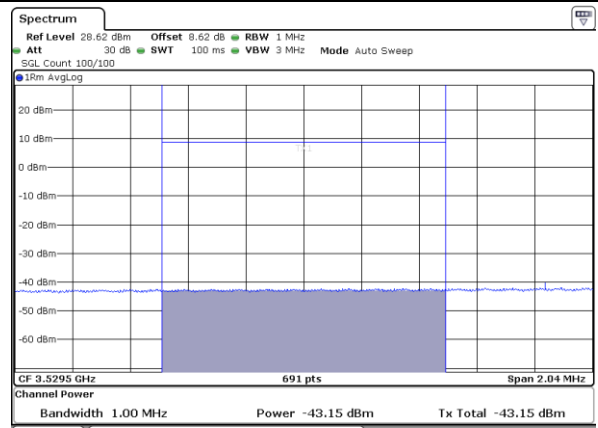
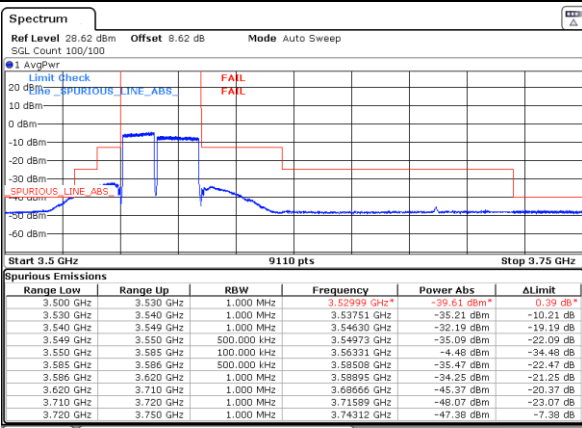


Date: 31 AUG 2021 10:01:54

Date: 31 AUG 2021 11:40:41

Lowest Band Edge / Full RB

Verify Lowest Band Edge / Full RB

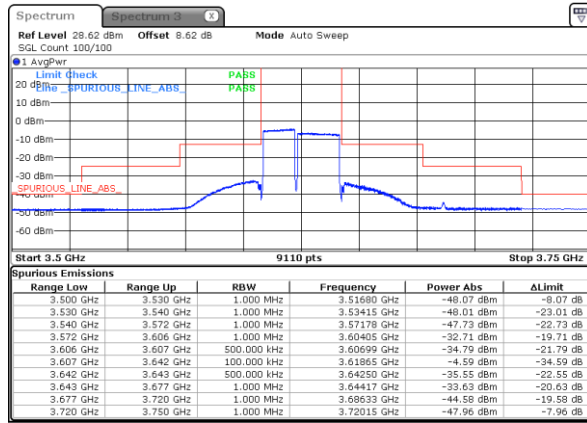


Date: 1 SEP 2021 03:06:41

Date: 30 AUG 2021 21:00:38



Middle Band Edge / Full RB



Date: 31\_AUG\_2021 11:42:56



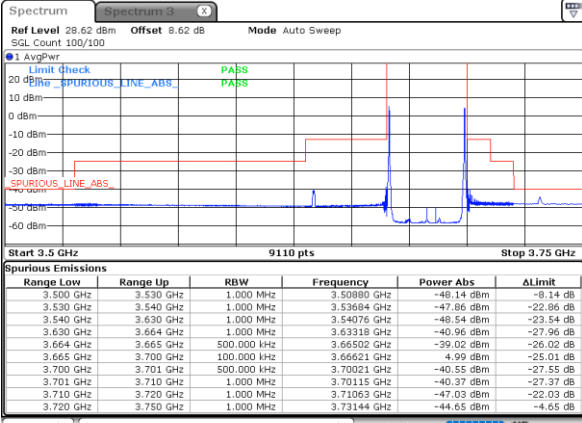


LTE Band 48C / 15MHz+20MHz

QPSK

Highest Band Edge / 1RB0 and 1RB99

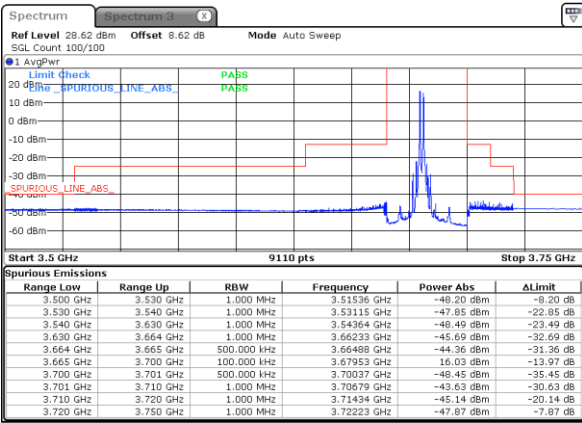
N/A



Date: 31.AUG.2021 10:52:47

Highest Band Edge / 1RB74 and 1RB0

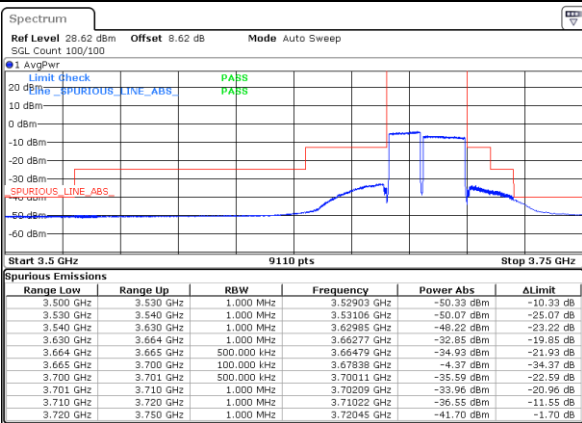
N/A



Date: 31.AUG.2021 10:18:43

Highest Band Edge / Full RB

N/A



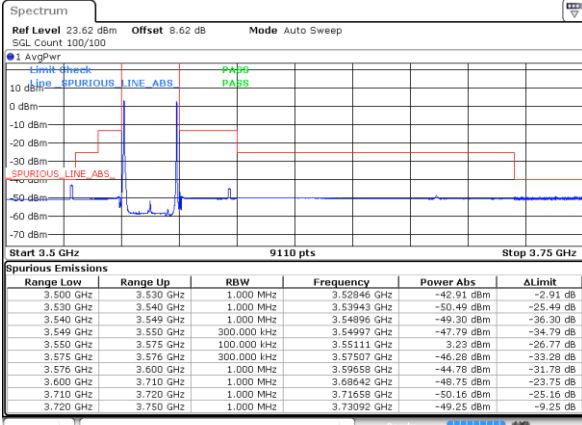
Date: 30.AUG.2021 20:38:16



LTE Band 48C/ 20MHz+5MHz

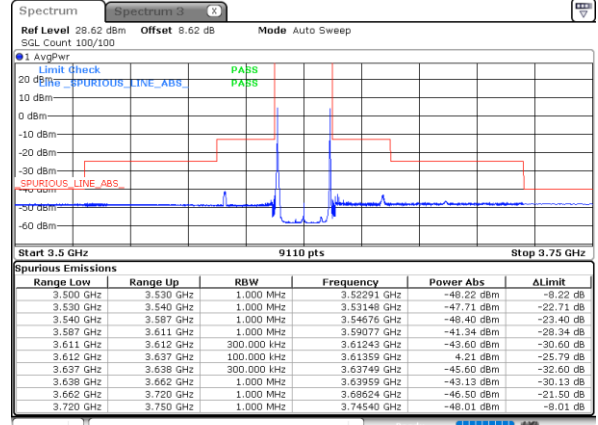
QPSK

Lowest Band Edge / 1RB0 and 1RB24



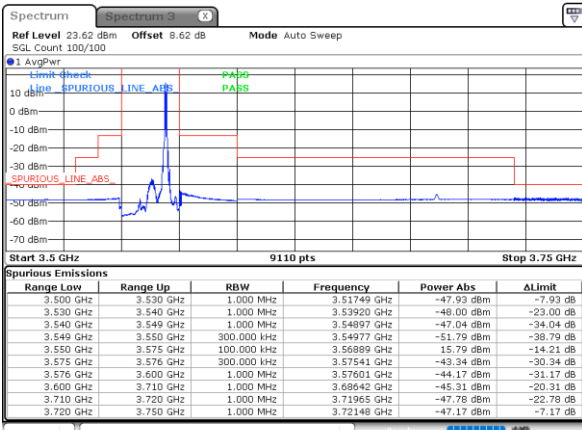
Date: 30 AUG 2021 20:51:06

Middle Band Edge / 1RB0 and 1RB24



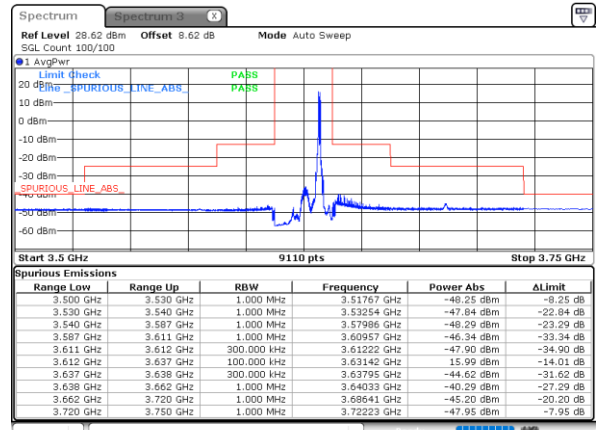
Date: 31 AUG 2021 13:59:23

Lowest Band Edge / 1RB99 and 1RB0



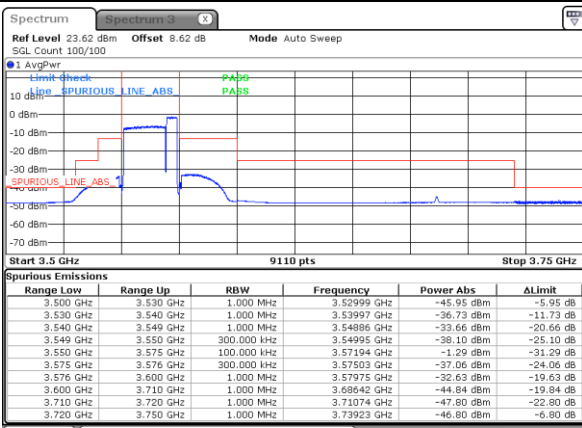
Date: 31 AUG 2021 13:47:09

Middle Band Edge / 1RB99 and 1RB0



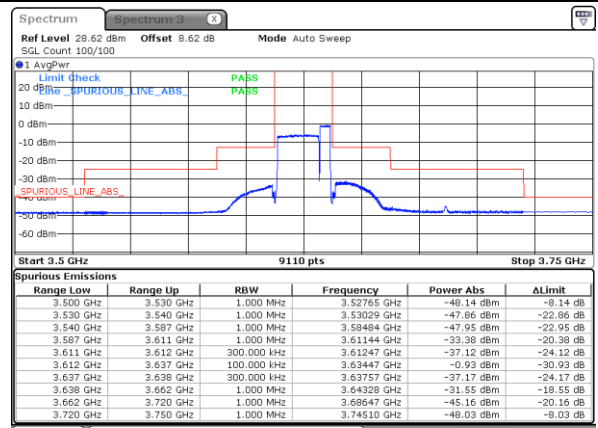
Date: 31 AUG 2021 14:00:54

Lowest Band Edge / Full RB



Date: 31 AUG 2021 13:27:24

Middle Band Edge / Full RB



Date: 31 AUG 2021 13:49:03

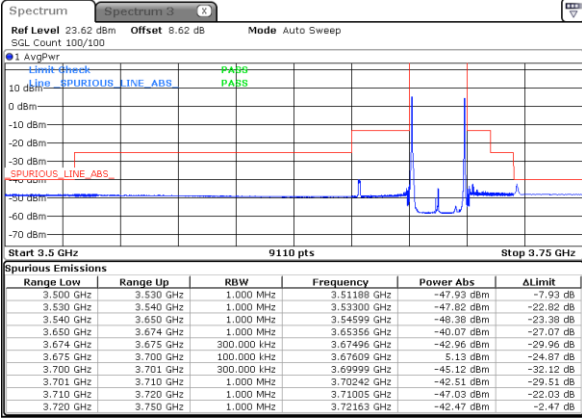


LTE Band 48C / 20MHz+5MHz

QPSK

Highest Band Edge / 1RB0 and 1RB24

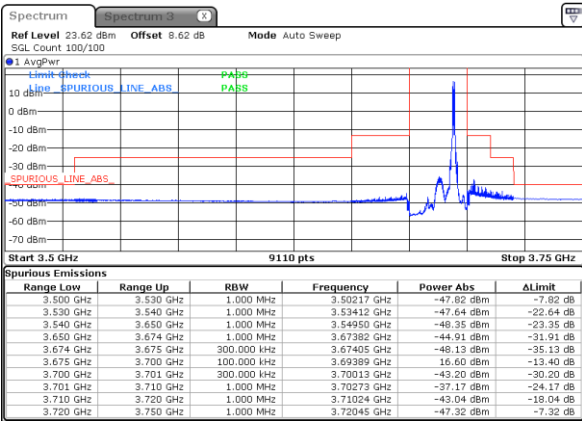
N/A



Date: 31.AUG.2021 14:42:17

Highest Band Edge / 1RB99 and 1RB0

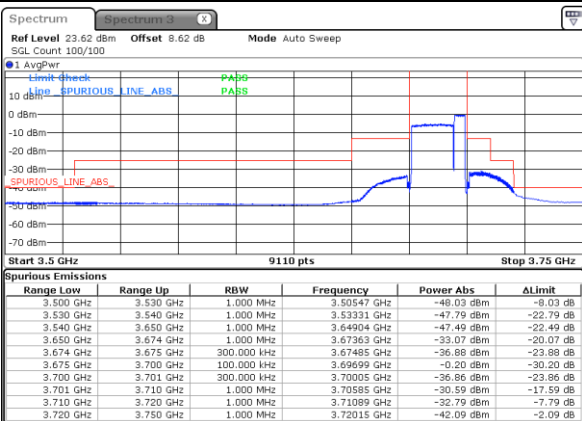
N/A



Date: 31.AUG.2021 14:43:43

Highest Band Edge / Full RB

N/A



Date: 31.AUG.2021 14:07:04

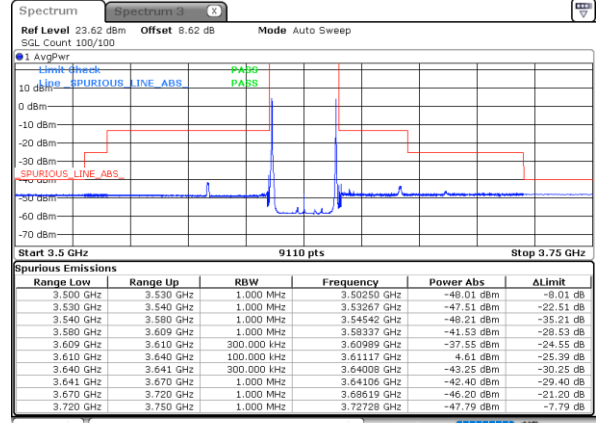
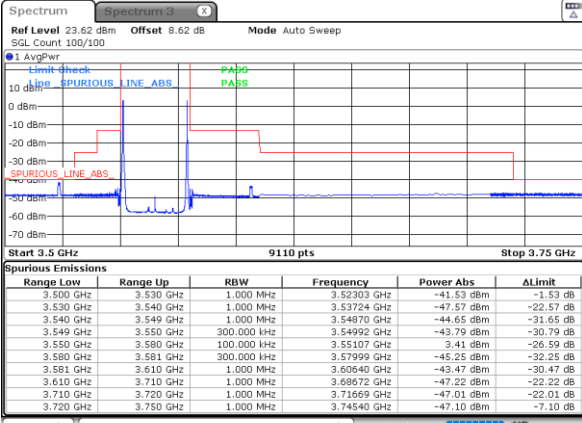


LTE Band 48C / 20MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49

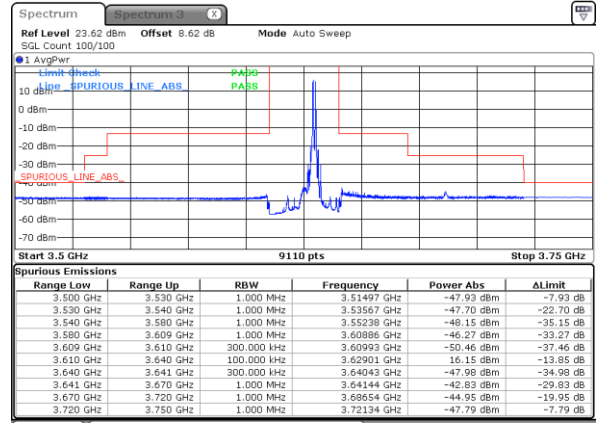
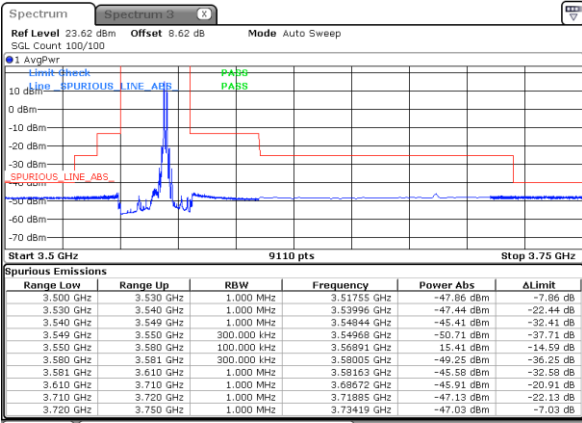


Date: 31.AUG.2021 05:45:53

Date: 31.AUG.2021 12:52:32

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

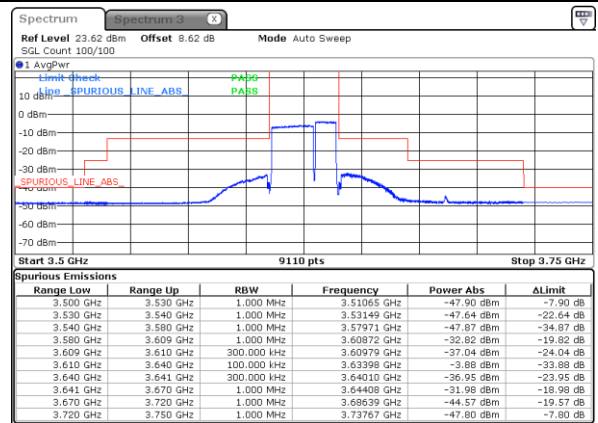
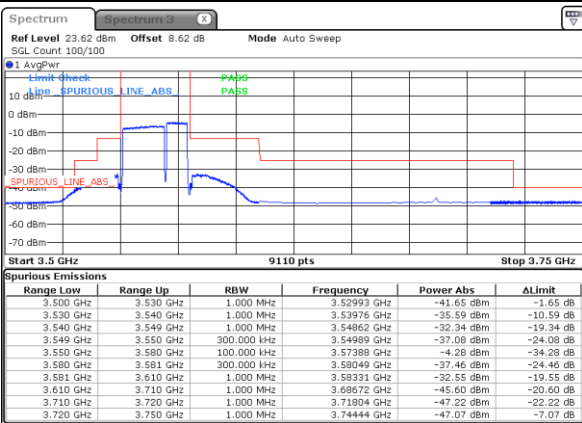


Date: 31.AUG.2021 12:00:28

Date: 31.AUG.2021 13:08:25

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 31.AUG.2021 12:13:33

Date: 31.AUG.2021 12:15:38

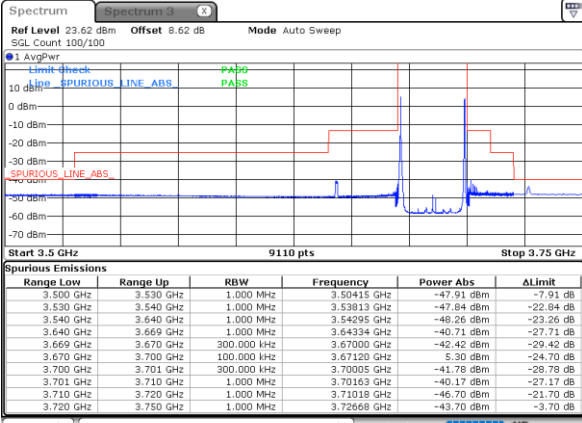


LTE Band 48C / 20MHz+10MHz

QPSK

Highest Band Edge / 1RB0 and 1RB49

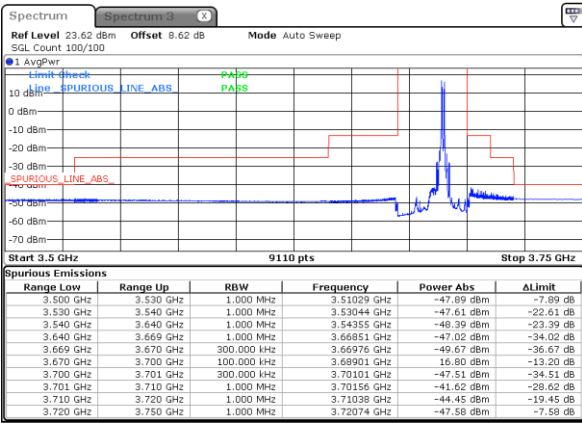
N/A



Date: 31.AUG.2021 13:11:33

Highest Band Edge / 1RB99 and 1RB0

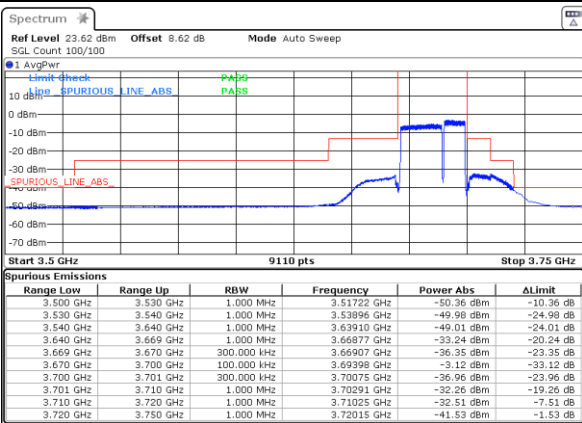
N/A



Date: 31.AUG.2021 13:23:19

Highest Band Edge / Full RB

N/A



Date: 30.AUG.2021 21:47:28

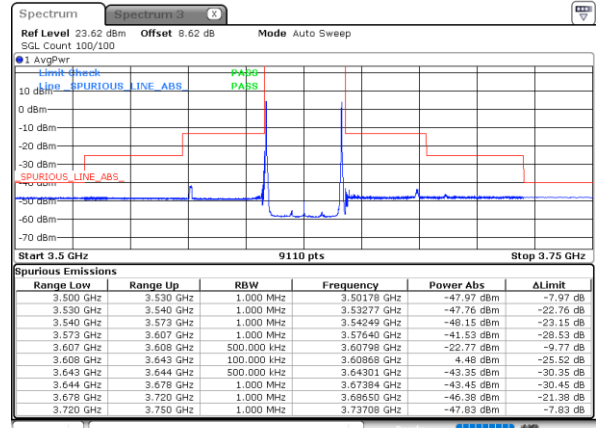
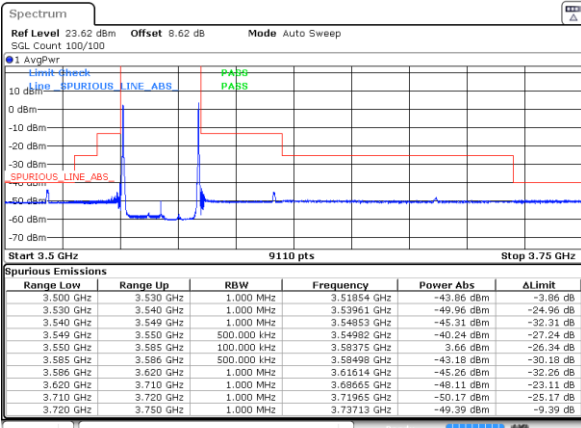


LTE Band 48C / 20MHz+15MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB74

Middle Band Edge / 1RB0 and 1RB74

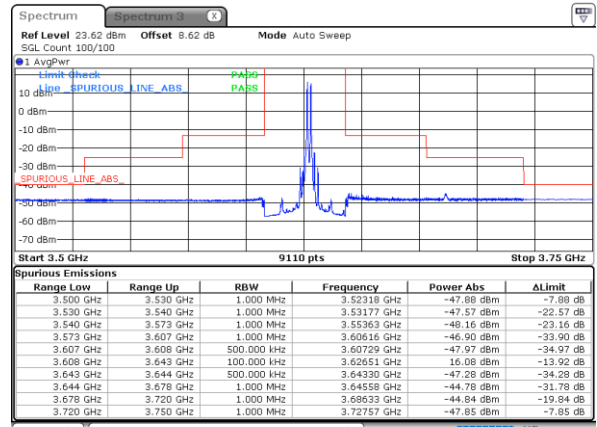
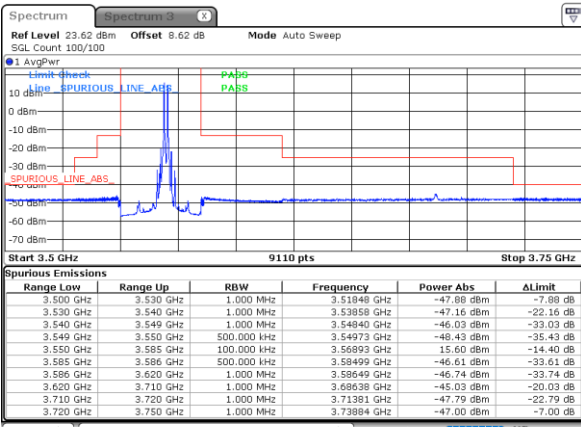


Date: 30 AUG 2021 21:56:24

Date: 31 AUG 2021 08:28:05

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

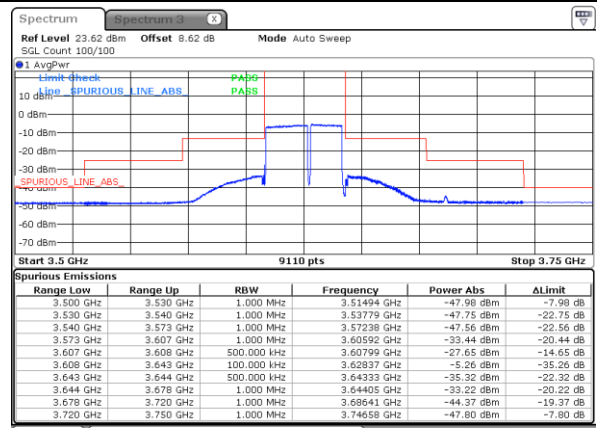
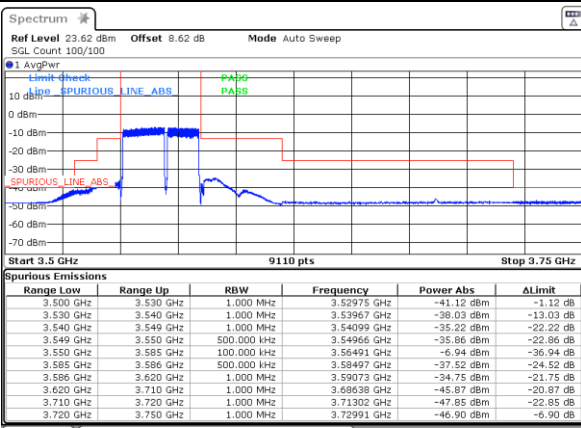


Date: 31 AUG 2021 07:44:28

Date: 31 AUG 2021 08:26:09

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 1 SEP 2021 03:46:13

Date: 31 AUG 2021 08:42:34



Verify Lowest Band Edge / Full RB

