



Frequency Stability

Test Conditions		LTE Band 48B (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10+10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0026	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0029	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 48C

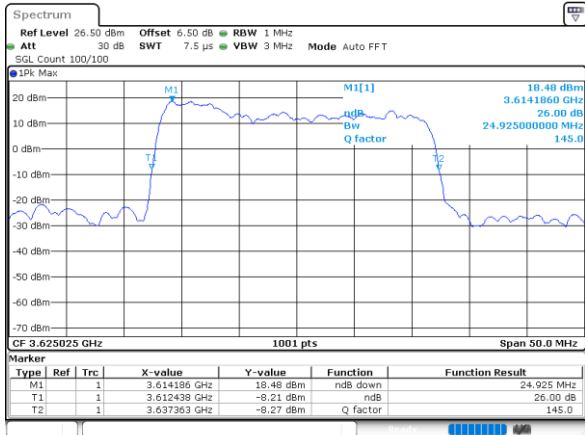
26dB Bandwidth

Mode	LTE Band 48C : 26dB BW(MHz)	
QPSK	QPSK	16QAM
BW	5MHz+20MHz	5MHz+20MHz
Middle CH	24.93	24.98
QPSK	QPSK	16QAM
BW	10MHz+20MHz	10MHz+20MHz
Middle CH	29.91	30.03
QPSK	QPSK	16QAM
BW	15MHz+20MHz	15MHz+20MHz
Middle CH	34.97	34.97
QPSK	QPSK	16QAM
BW	20MHz+5MHz	20MHz+5MHz
Middle CH	24.98	24.88
QPSK	QPSK	16QAM
BW	20MHz+10MHz	20MHz+10MHz
Middle CH	30.09	29.97
QPSK	QPSK	16QAM
BW	20MHz+15MHz	20MHz+15MHz
Middle CH	34.97	34.97
QPSK	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	39.88	39.88



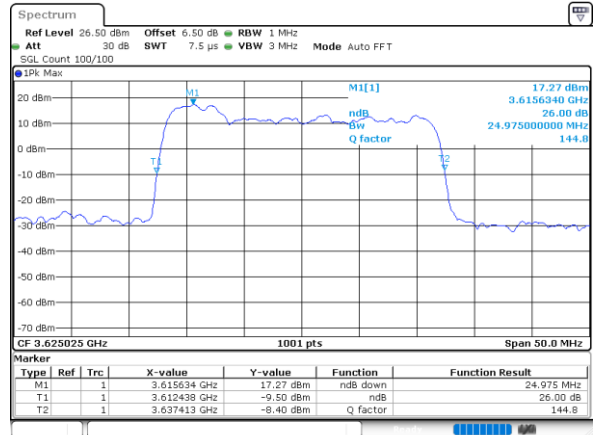
LTE Band 48C

Middle Channel / 5MHz+20MHz/QPSK



Date: 31.MAR.2023 22:37:18

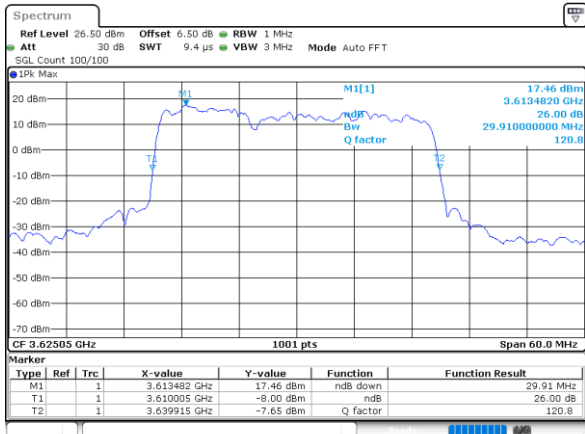
Middle Channel / 5MHz+20MHz/16QAM



Date: 31.MAR.2023 22:38:41

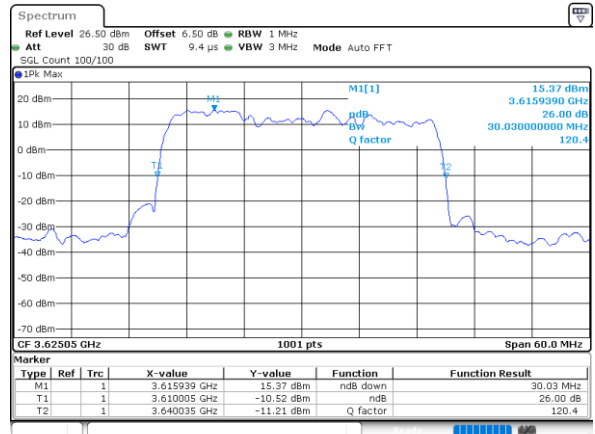
LTE Band 48C

Middle Channel / 10MHz+20MHz/QPSK



Date: 31.MAR.2023 22:40:05

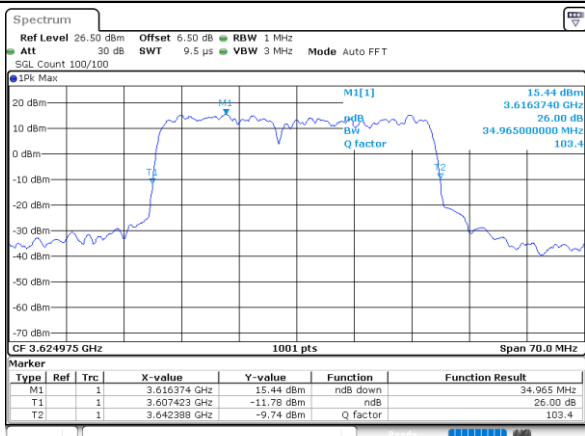
Middle Channel / 10MHz+20MHz/16QAM



Date: 31.MAR.2023 22:41:29

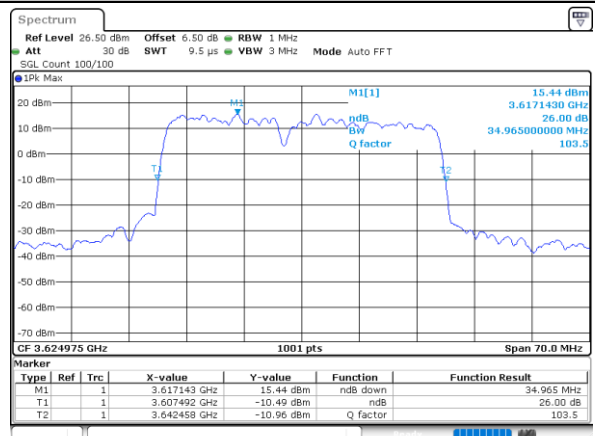
LTE Band 48C

Middle Channel / 15MHz+20MHz/QPSK



Date: 31.MAR.2023 22:43:28

Middle Channel / 15MHz+20MHz/16QAM

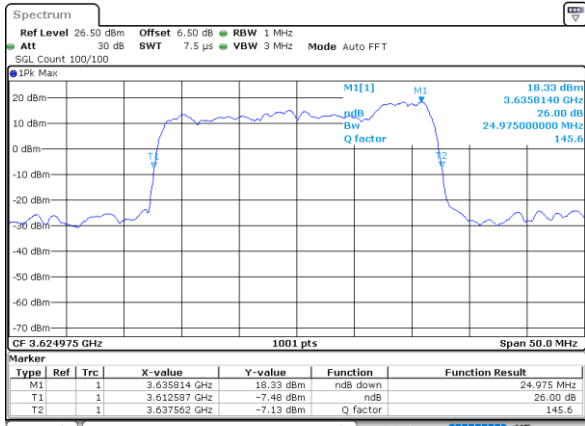


Date: 31.MAR.2023 22:44:52



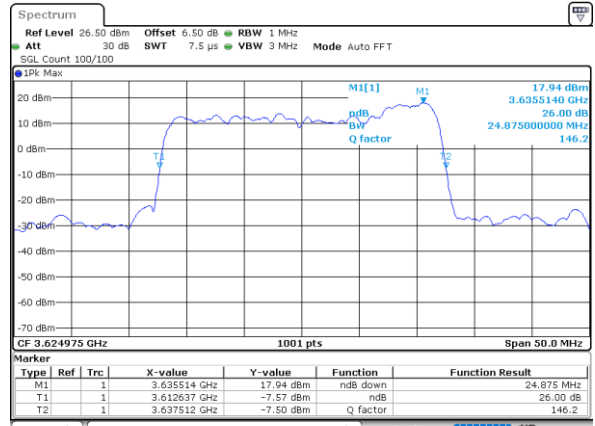
LTE Band 48C

Middle Channel / 20MHz+5MHz/QPSK



Date: 31.MAR.2023 22:46:00

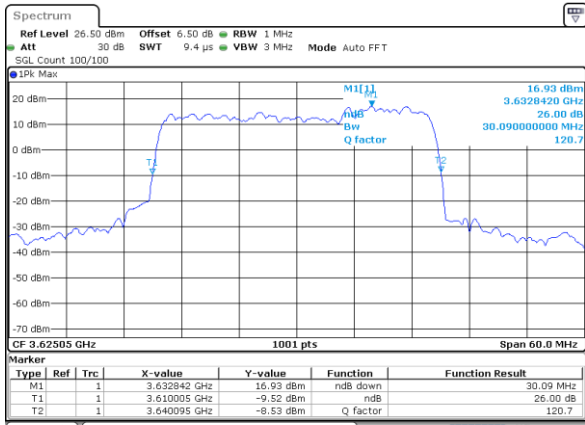
Middle Channel / 20MHz+5MHz/16QAM



Date: 31.MAR.2023 22:47:23

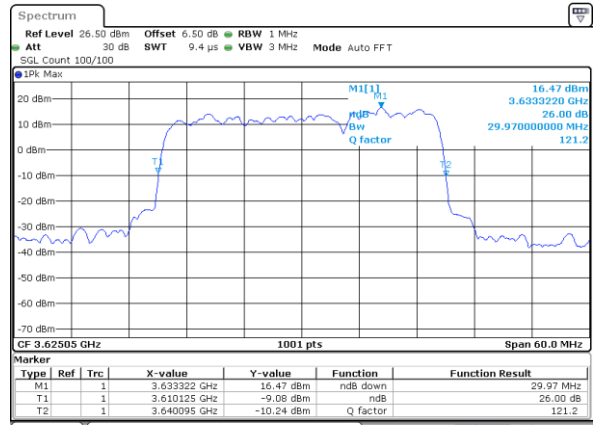
LTE Band 48C

Middle Channel / 20MHz+10MHz/QPSK



Date: 31.MAR.2023 22:49:05

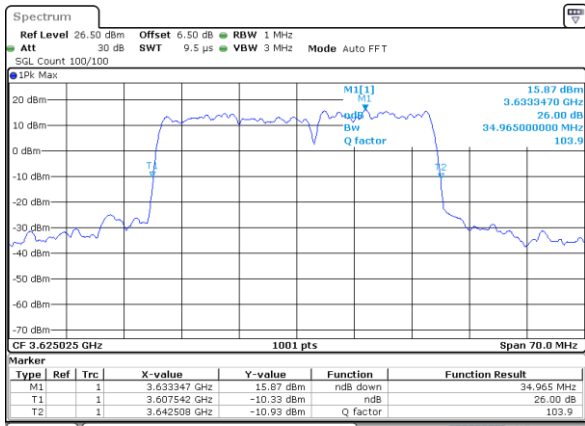
Middle Channel / 20MHz+10MHz/16QAM



Date: 31.MAR.2023 22:50:28

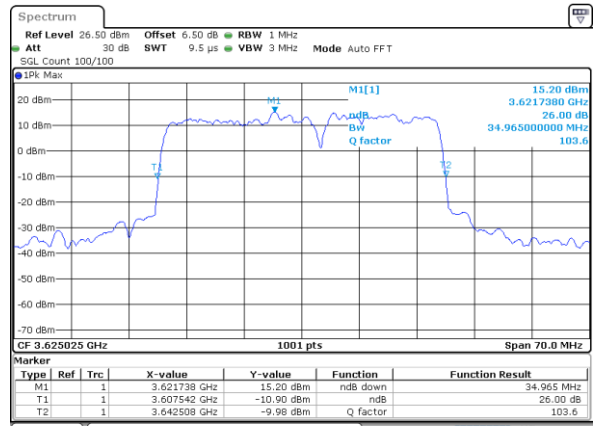
LTE Band 48C

Middle Channel / 20MHz+15MHz/QPSK



Date: 31.MAR.2023 22:51:46

Middle Channel / 20MHz+15MHz/16QAM

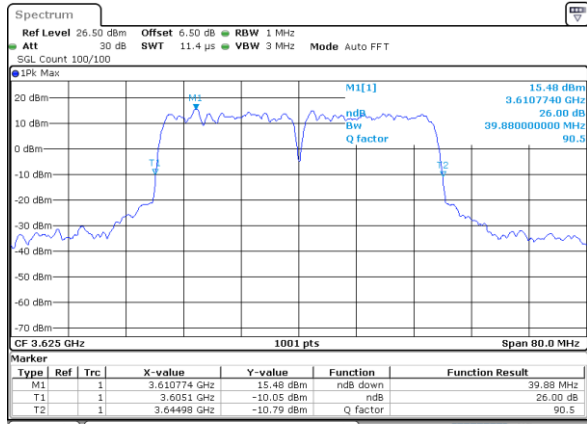


Date: 31.MAR.2023 22:53:09

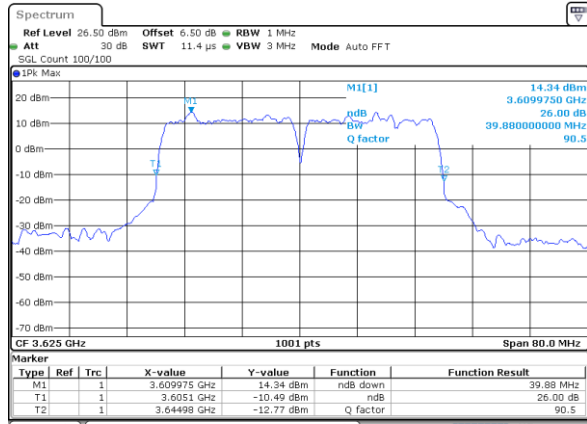


LTE Band 48C

Middle Channel / 20MHz+20MHz/QPSK



Middle Channel / 20MHz+20MHz/16QAM





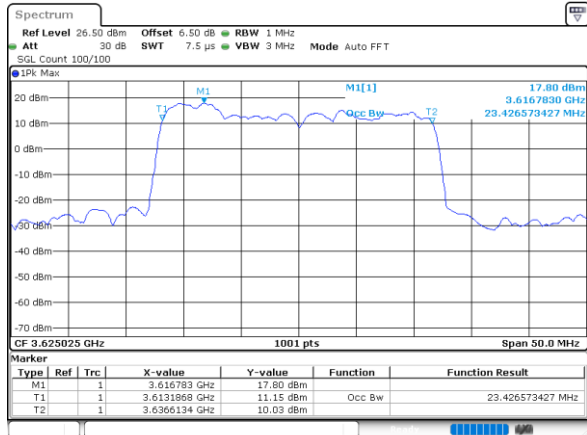
Occupied Bandwidth

Mode	LTE Band 48C : OBW(MHz)	
QPSK	QPSK	16QAM
BW	5MHz+20MHz	5MHz+20MHz
Middle CH	23.43	23.18
QPSK	QPSK	16QAM
BW	10MHz+20MHz	10MHz+20MHz
Middle CH	27.93	27.99
QPSK	QPSK	16QAM
BW	15MHz+20MHz	15MHz+20MHz
Middle CH	32.66	32.94
QPSK	QPSK	16QAM
BW	20MHz+5MHz	20MHz+5MHz
Middle CH	23.38	23.23
QPSK	QPSK	16QAM
BW	20MHz+10MHz	20MHz+10MHz
Middle CH	27.99	28.11
QPSK	QPSK	16QAM
BW	20MHz+15MHz	20MHz+15MHz
Middle CH	32.94	32.80
QPSK	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	37.40	37.64



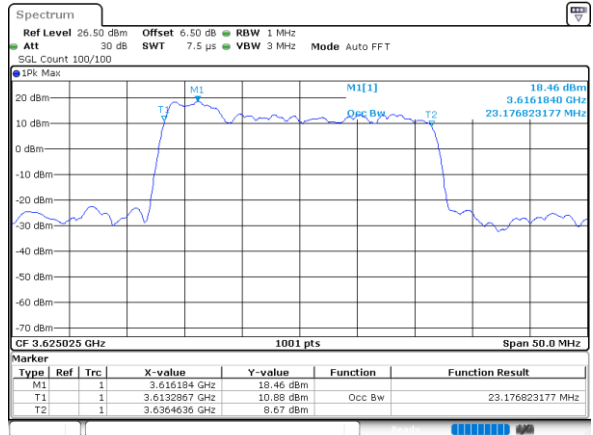
LTE Band 48C

Middle Channel / 5MHz+20MHz/QPSK



Date: 31.MAR.2023 22:37:46

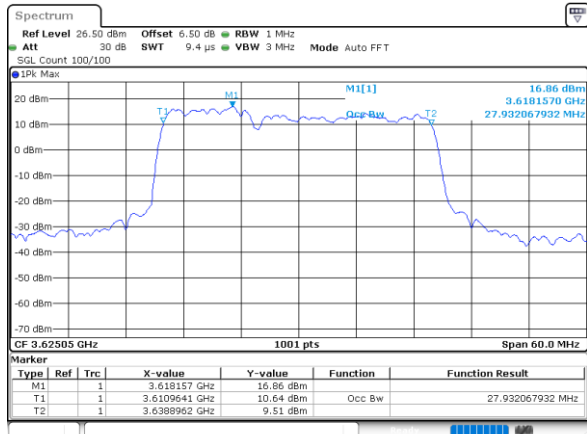
Middle Channel / 5MHz+20MHz/16QAM



Date: 31.MAR.2023 22:13:14

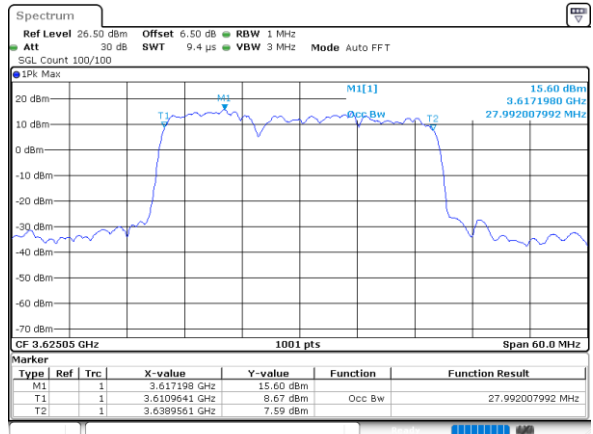
LTE Band 48C

Middle Channel / 10MHz+20MHz/QPSK



Date: 31.MAR.2023 22:40:33

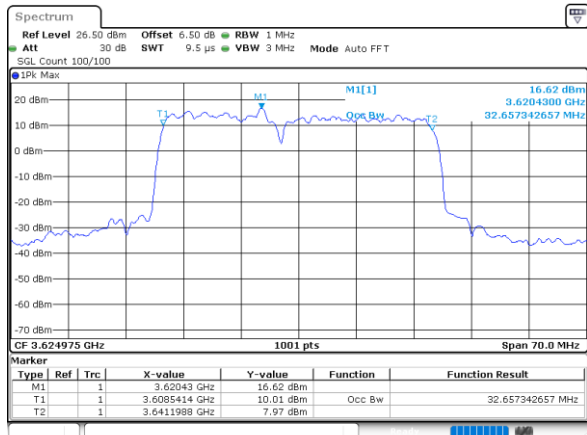
Middle Channel / 10MHz+20MHz/16QAM



Date: 31.MAR.2023 22:41:01

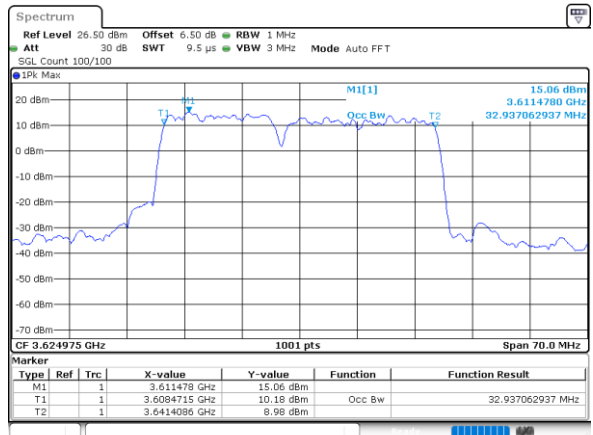
LTE Band 48C

Middle Channel / 15MHz+20MHz/QPSK



Date: 31.MAR.2023 22:43:56

Middle Channel / 15MHz+20MHz/16QAM

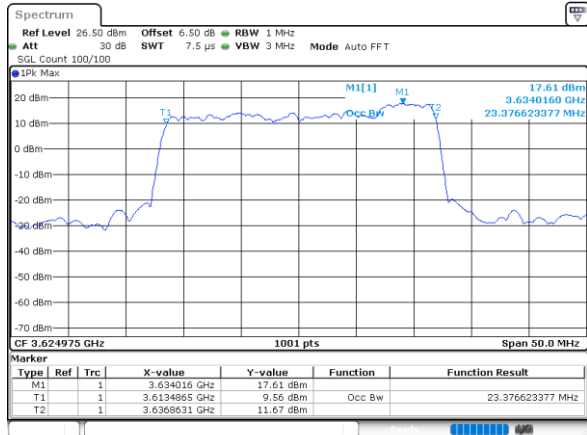


Date: 31.MAR.2023 22:44:24



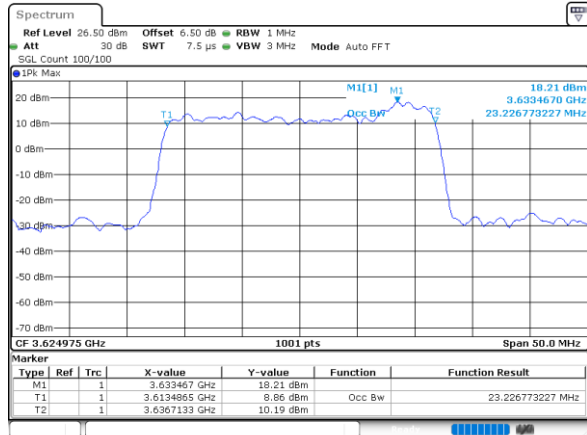
LTE Band 48C

Middle Channel / 20MHz+5MHz/QPSK



Date: 31.MAR.2023 22:46:27

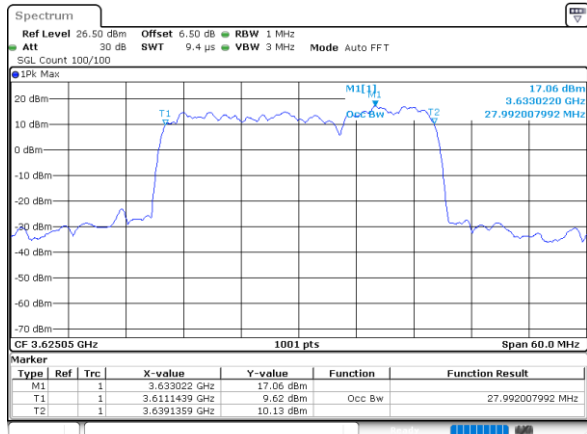
Middle Channel / 20MHz+5MHz/16QAM



Date: 31.MAR.2023 22:46:56

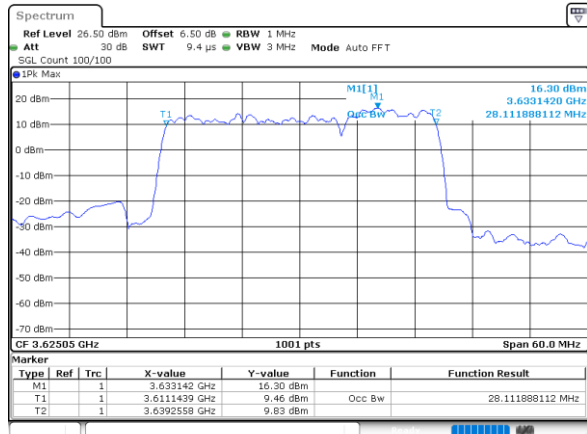
LTE Band 48C

Middle Channel / 20MHz+10MHz/QPSK



Date: 31.MAR.2023 22:49:32

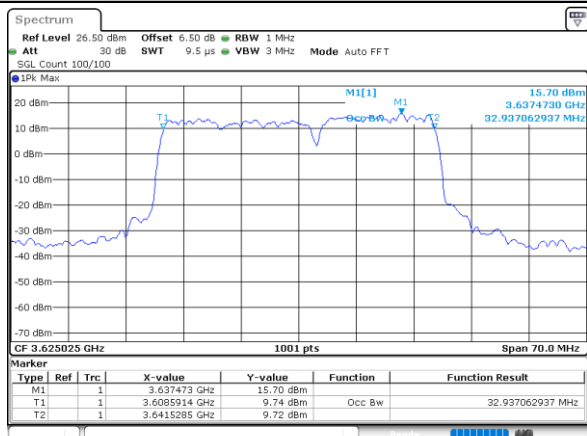
Middle Channel / 20MHz+10MHz/16QAM



Date: 31.MAR.2023 22:50:00

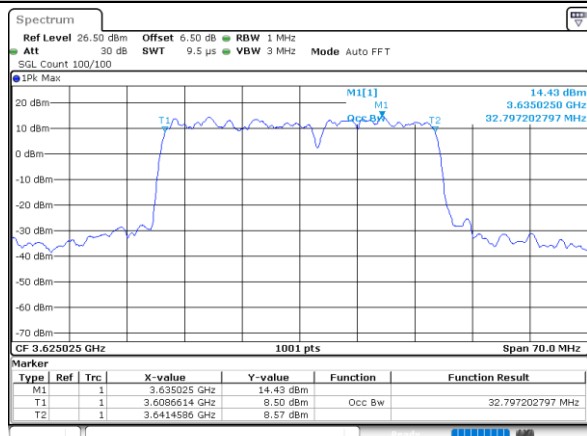
LTE Band 48C

Middle Channel / 20MHz+15MHz/QPSK



Date: 31.MAR.2023 22:52:13

Middle Channel / 20MHz+15MHz/16QAM

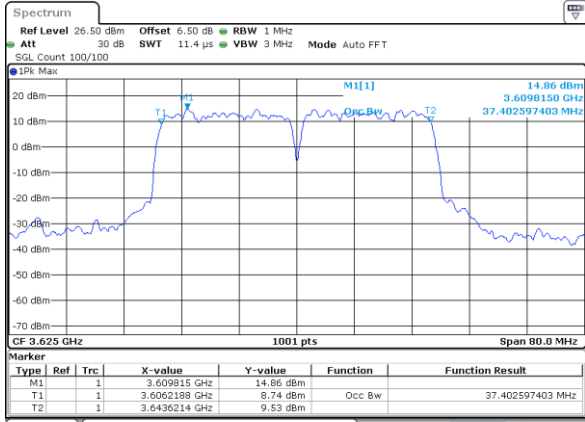


Date: 31.MAR.2023 22:52:42



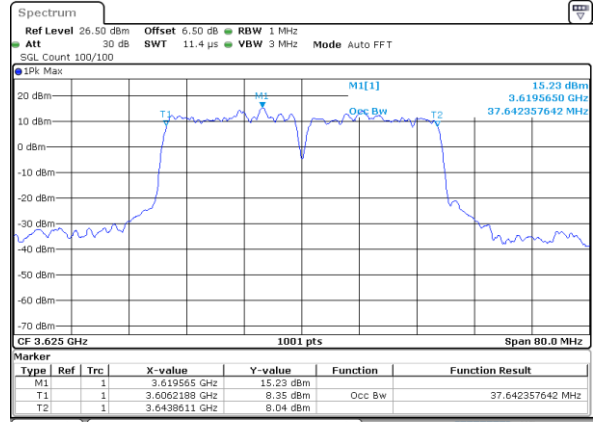
LTE Band 48C

Middle Channel / 20MHz+20MHz/QPSK



Date: 31.MAR.2023 23:09:53

Middle Channel / 20MHz+20MHz/16QAM



Date: 31.MAR.2023 22:55:58

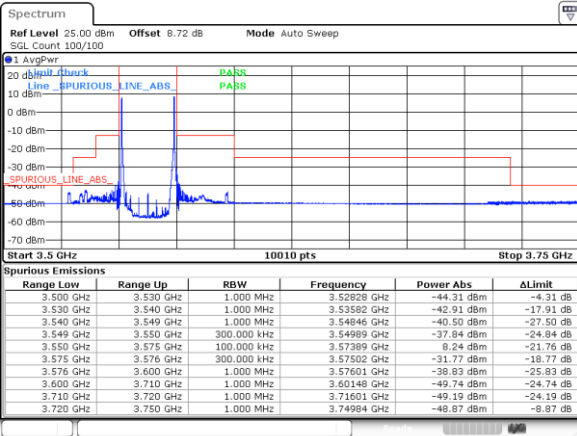


Conducted Band Edge

LTE Band 48C / 5MHz+20MHz

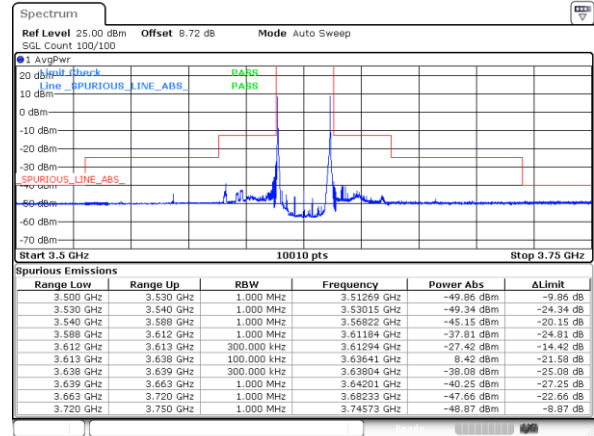
QPSK

Lowest Band Edge / 1RB0 and 1RB99



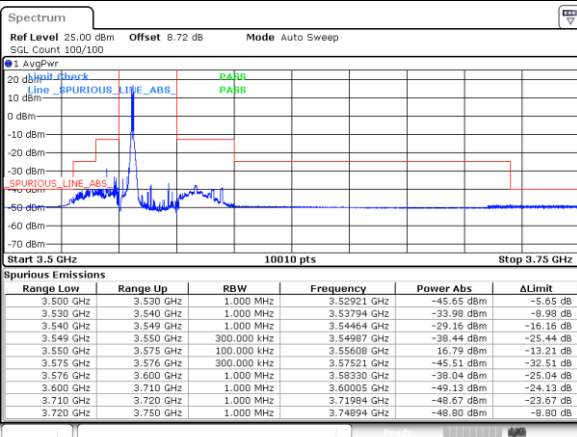
Date: 23_MAR_2023 18:44:15

Middle Band Edge / 1RB0 and 1RB99



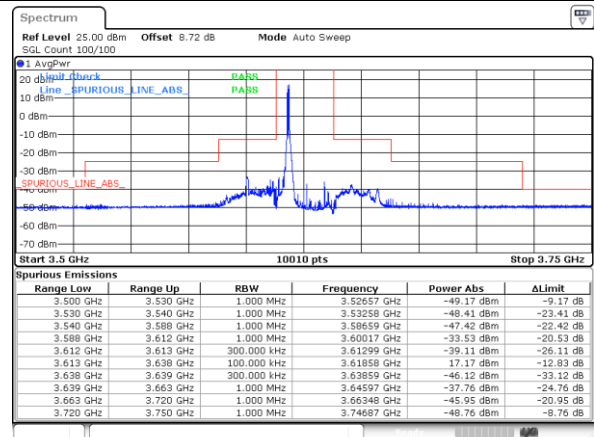
Date: 23_MAR_2023 19:37:57

Lowest Band Edge / 1RB24 and 1RB0



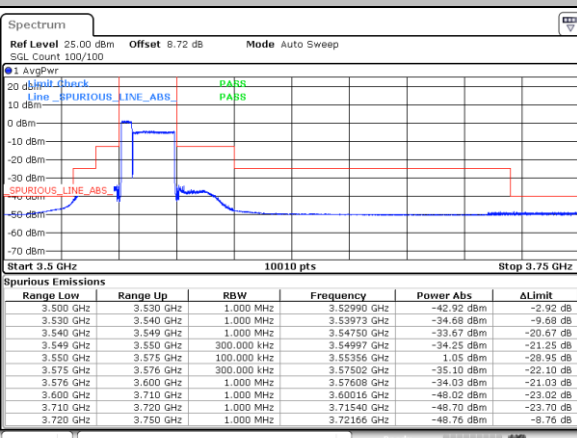
Date: 23_MAR_2023 18:59:10

Middle Band Edge / 1RB24 and 1RB0



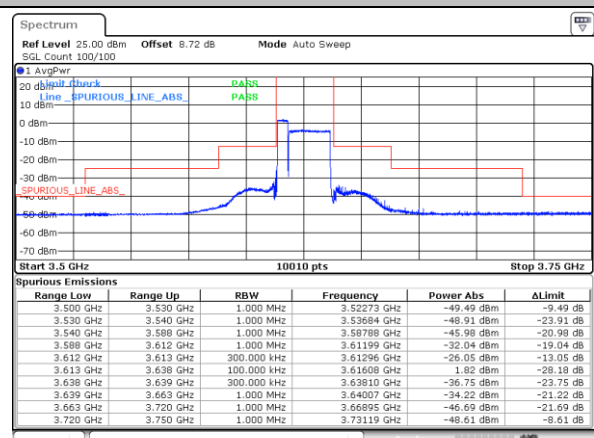
Date: 23_MAR_2023 19:49:52

Lowest Band Edge / Full RB



Date: 23_MAR_2023 19:13:59

Middle Band Edge / Full RB



Date: 23_MAR_2023 19:26:01

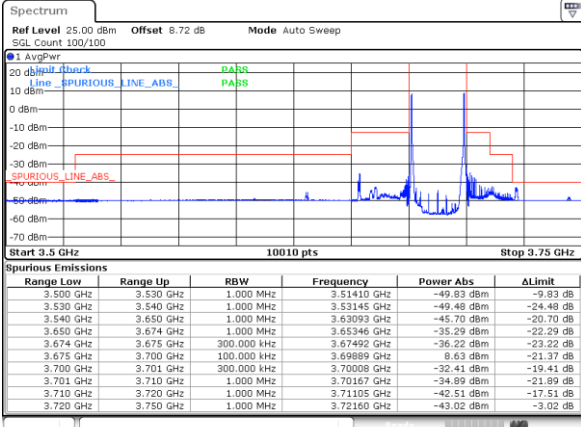


LTE Band 48C / 5MHz+20MHz

QPSK

Highest Band Edge / 1RB0 and 1RB99

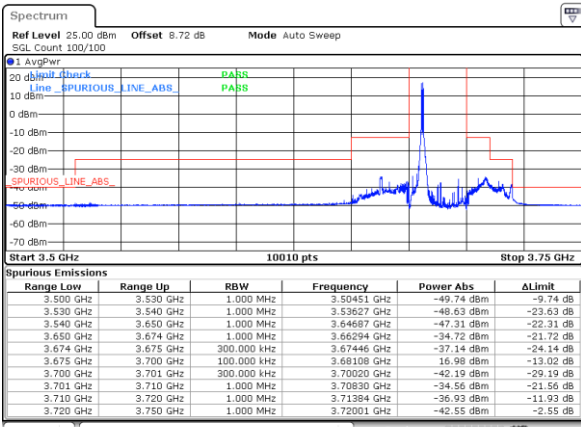
N/A



Date: 23_MAR_2023 20:13:50

Highest Band Edge / 1RB24 and 1RB0

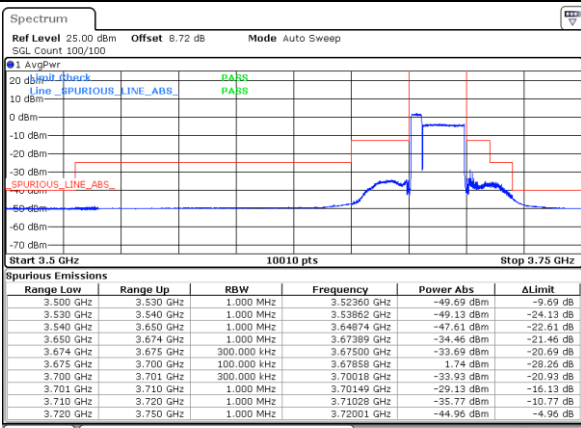
N/A



Date: 23_MAR_2023 20:01:54

Highest Band Edge / Full RB

N/A



Date: 23_MAR_2023 20:29:15

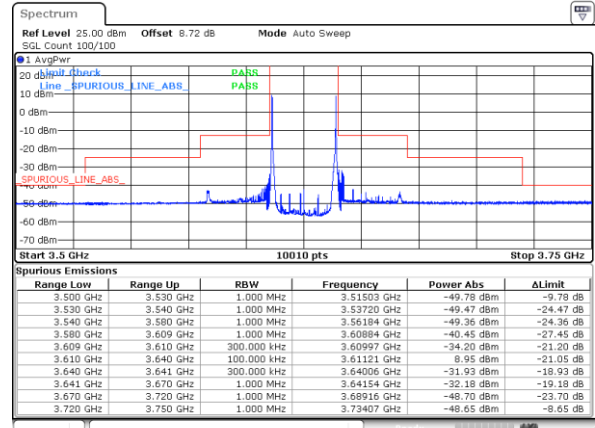
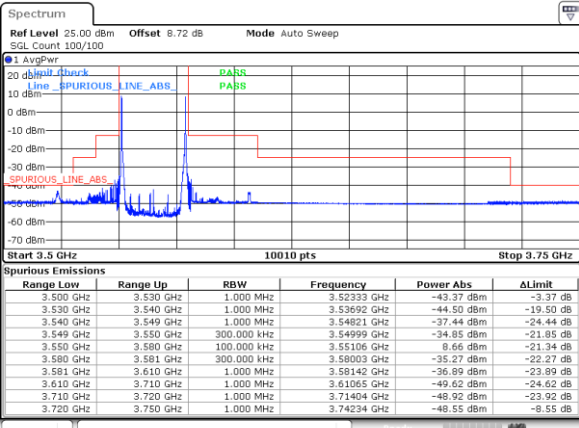


LTE Band 48C / 10MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB9

Middle Band Edge / 1RB0 and 1RB9

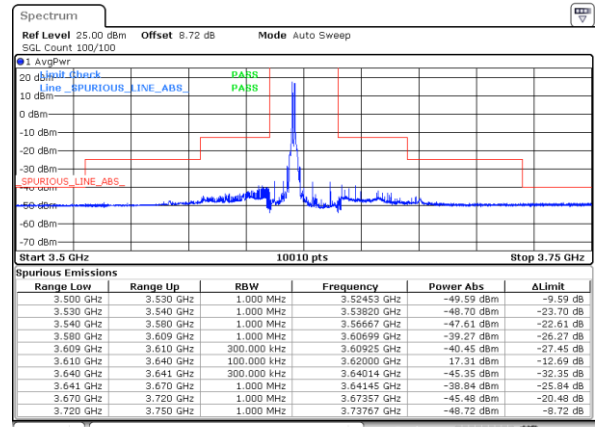
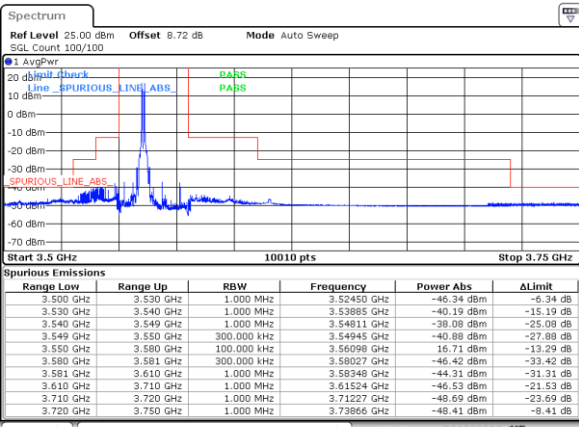


Date: 23_MAR_2023 20:54:13

Date: 23_MAR_2023 21:20:05

Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0

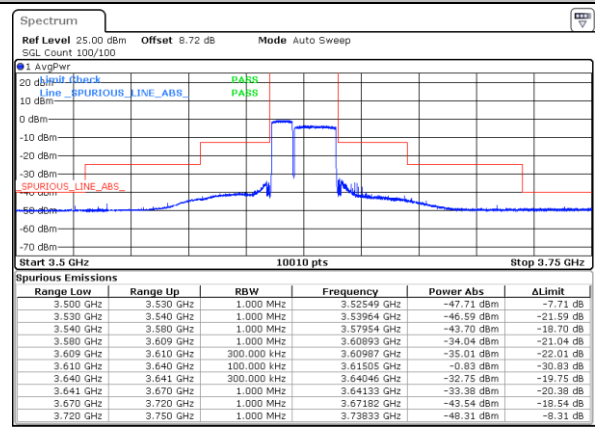
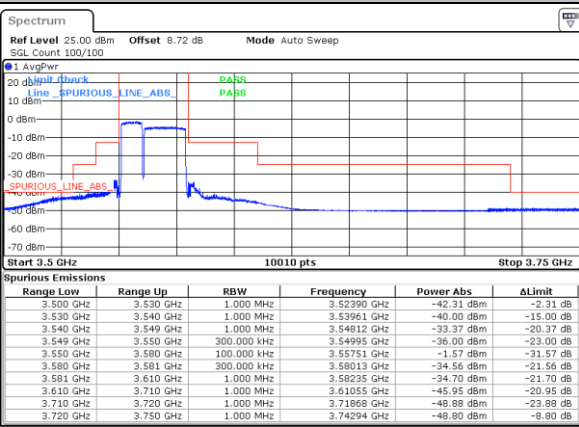


Date: 23_MAR_2023 21:02:48

Date: 23_MAR_2023 21:11:30

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 23_MAR_2023 20:45:05

Date: 23_MAR_2023 21:28:40

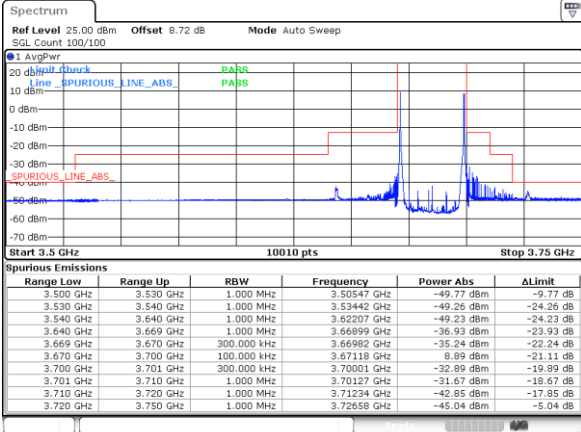


LTE Band 48C / 10MHz+20MHz

QPSK

Highest Band Edge / 1RB0 and 1RB99

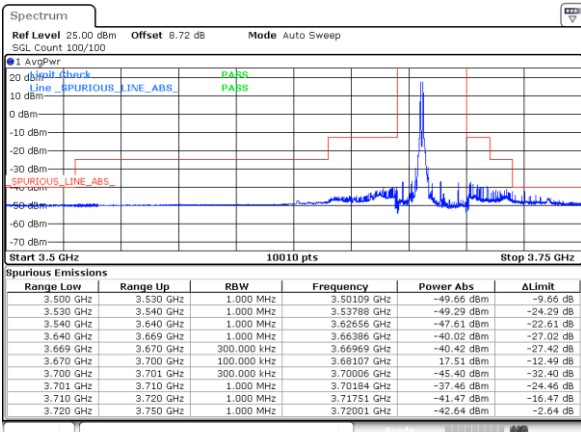
N/A



Date: 23_MAR_2023 21:45:55

Highest Band Edge / 1RB49 and 1RB0

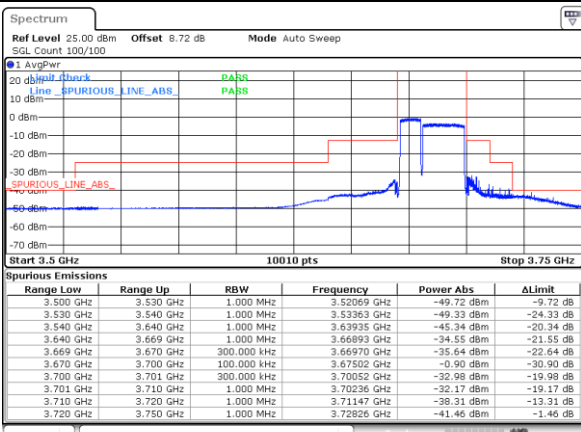
N/A



Date: 23_MAR_2023 21:54:29

Highest Band Edge / Full RB

N/A



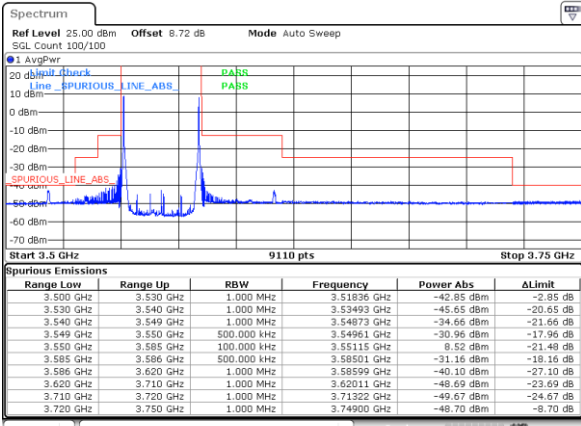
Date: 23_MAR_2023 21:37:20



LTE Band 48C / 15MHz+20MHz

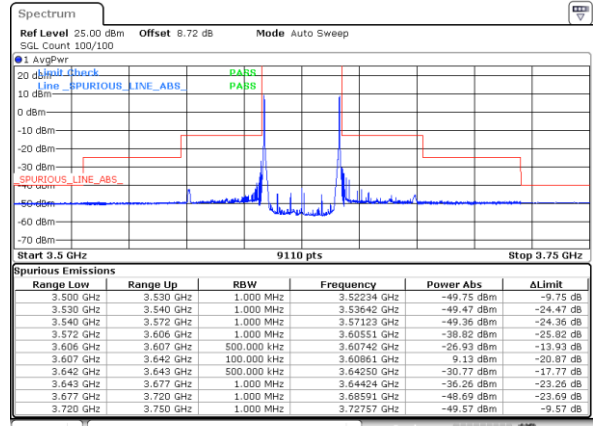
QPSK

Lowest Band Edge / 1RB0 and 1RB9



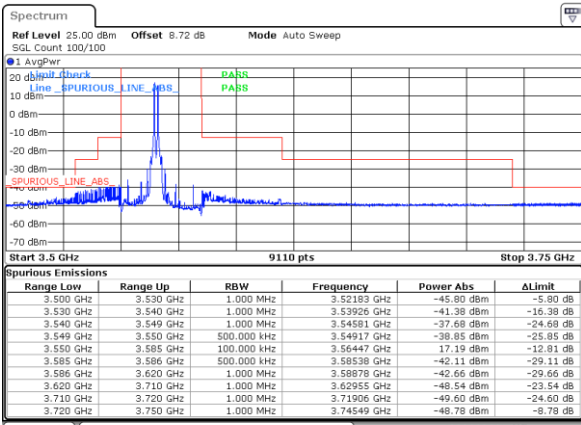
Date: 23_MAR_2023 22:11:50

Middle Band Edge / 1RB0 and 1RB9



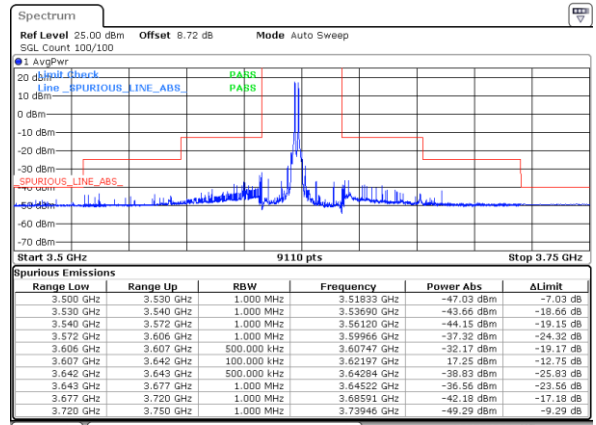
Date: 23_MAR_2023 22:37:50

Lowest Band Edge / 1RB74 and 1RB0



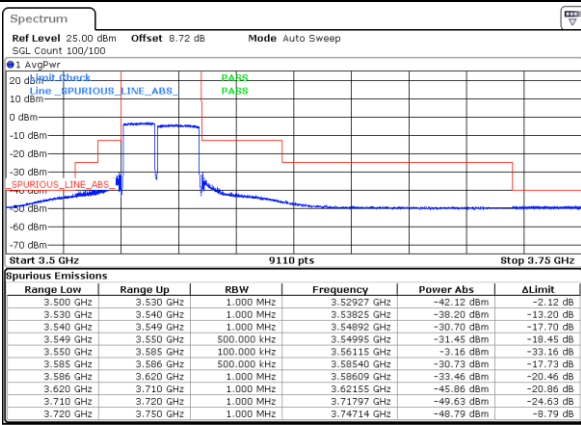
Date: 23_MAR_2023 22:03:12

Middle Band Edge / 1RB74 and 1RB0



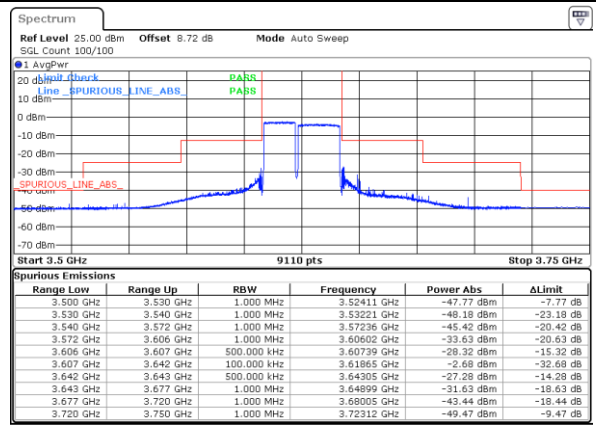
Date: 23_MAR_2023 22:46:27

Lowest Band Edge / Full RB



Date: 23_MAR_2023 22:20:29

Middle Band Edge / Full RB



Date: 23_MAR_2023 22:29:12

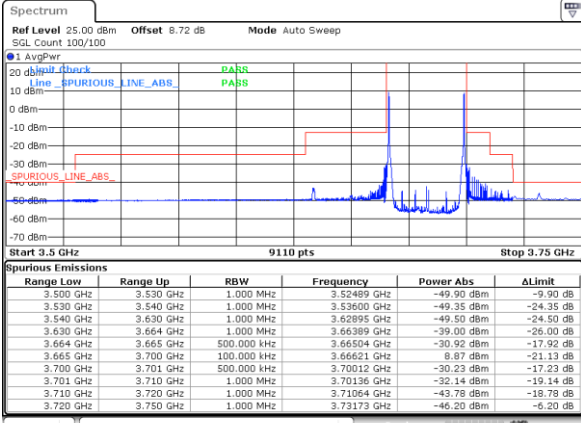


LTE Band 48C / 15MHz+20MHz

QPSK

Highest Band Edge / 1RB0 and 1RB99

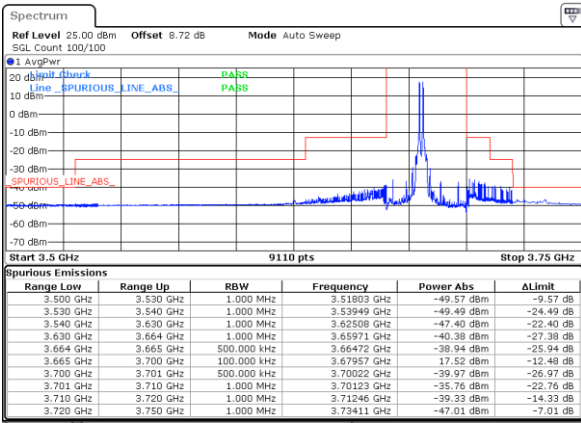
N/A



Date: 23_MAR_2023 23:03:46

Highest Band Edge / 1RB74 and 1RB0

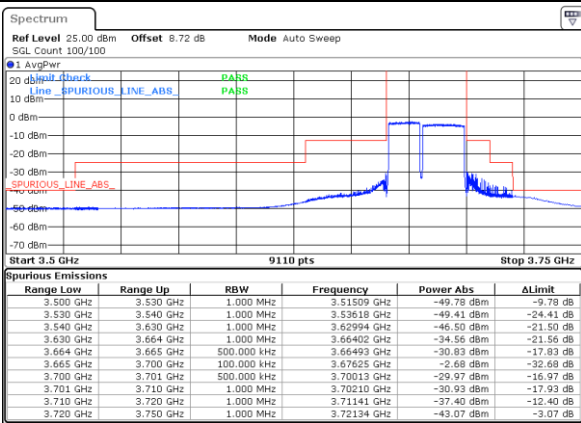
N/A



Date: 23_MAR_2023 22:55:09

Highest Band Edge / Full RB

N/A



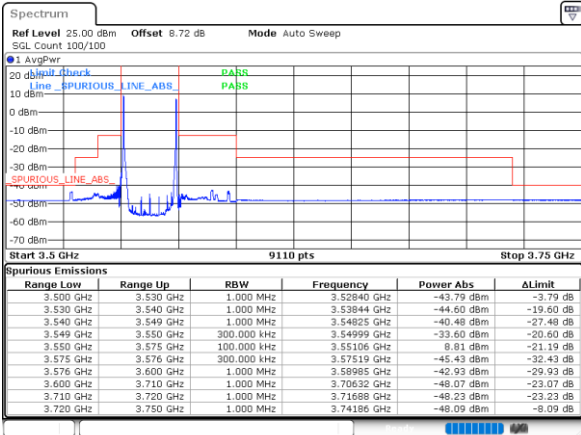
Date: 23_MAR_2023 23:12:23



LTE Band 48C/ 20MHz+5MHz

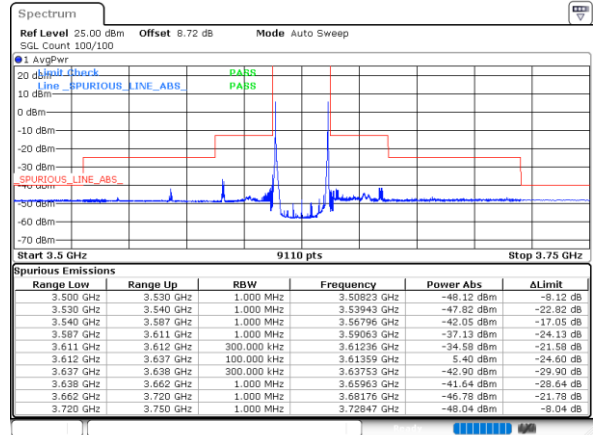
QPSK

Lowest Band Edge / 1RB0 and 1RB24



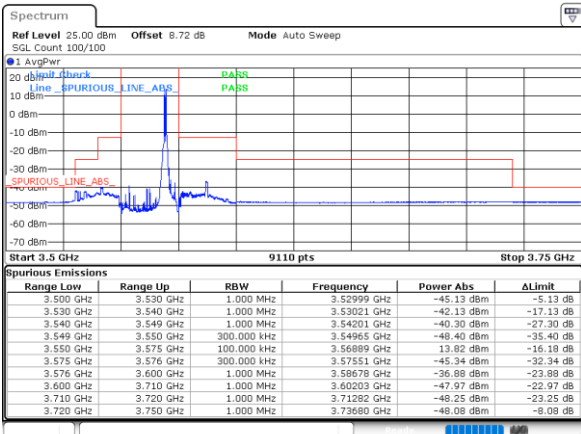
Date: 25_MAR_2023 07:45:15

Middle Band Edge / 1RB0 and 1RB24



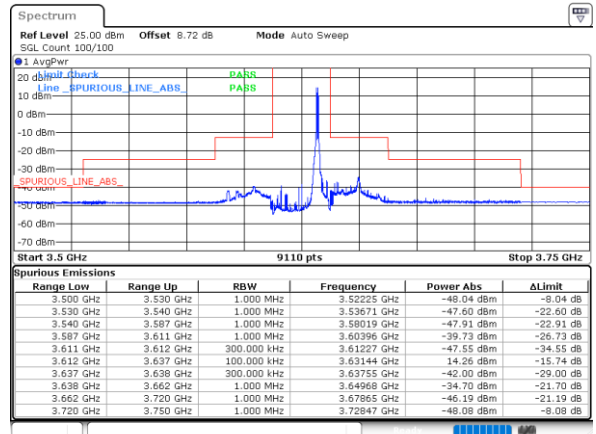
Date: 25_MAR_2023 01:49:49

Lowest Band Edge / 1RB99 and 1RB0



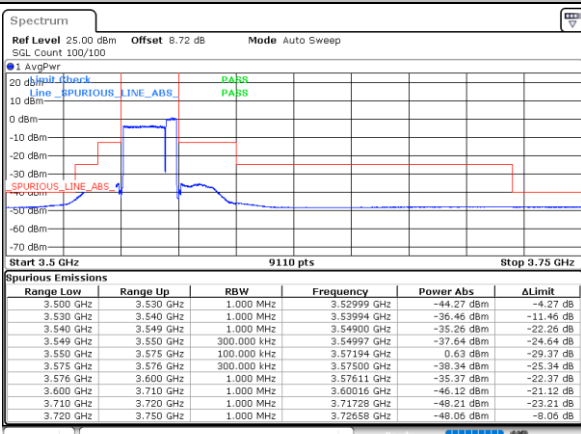
Date: 25_MAR_2023 01:29:20

Middle Band Edge / 1RB99 and 1RB0



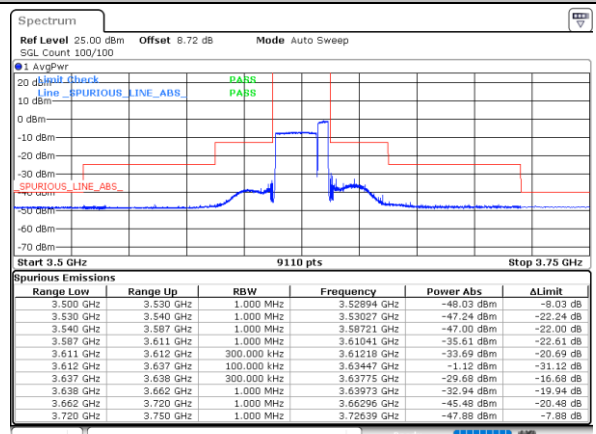
Date: 25_MAR_2023 01:59:40

Lowest Band Edge / Full RB



Date: 25_MAR_2023 07:36:04

Middle Band Edge / Full RB



Date: 25_MAR_2023 01:39:57

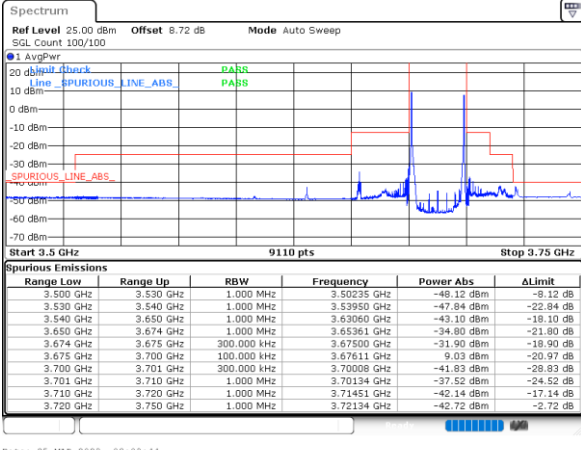


LTE Band 48C / 20MHz+5MHz

QPSK

Highest Band Edge / 1RB0 and 1RB24

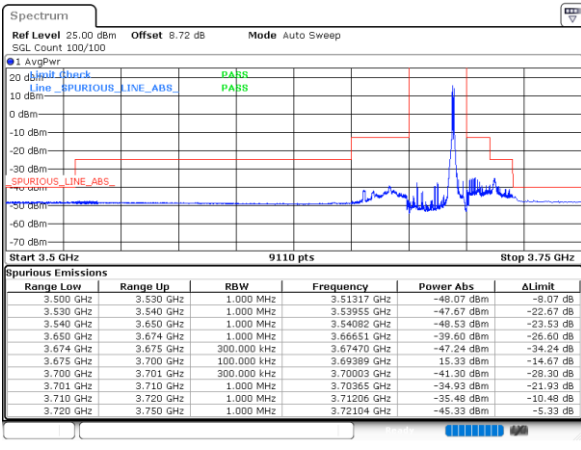
N/A



Date: 25_MAR_2023 08:03:44

Highest Band Edge / 1RB99 and 1RB0

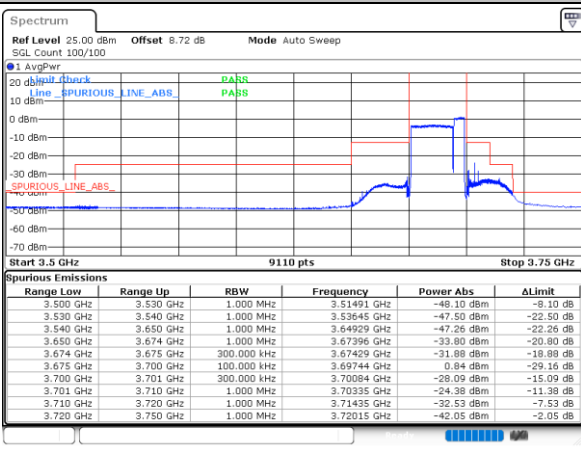
N/A



Date: 25_MAR_2023 02:14:23

Highest Band Edge / Full RB

N/A



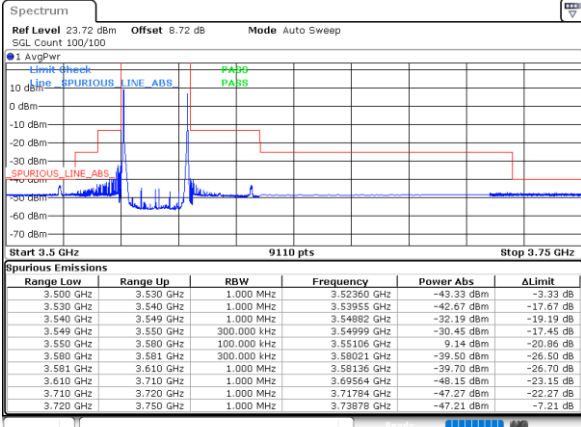
Date: 25_MAR_2023 07:54:33



LTE Band 48C / 20MHz+10MHz

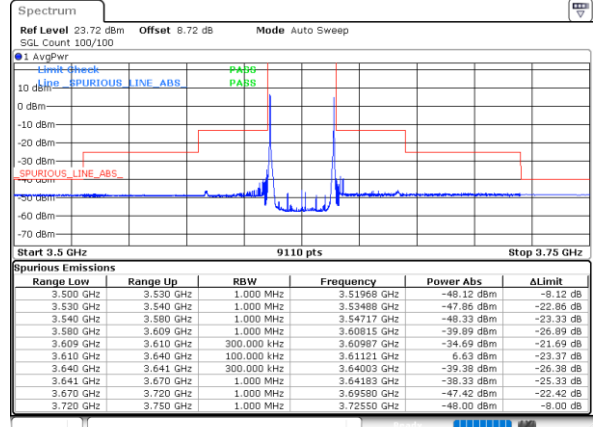
QPSK

Lowest Band Edge / 1RB0 and 1RB49



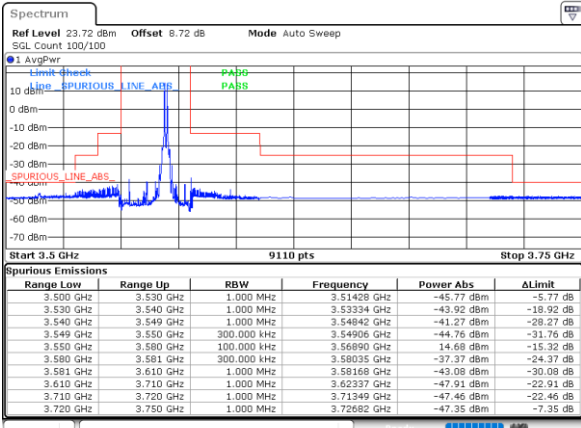
Date: 25_MAR.2023 08:22:15

Middle Band Edge / 1RB0 and 1RB49



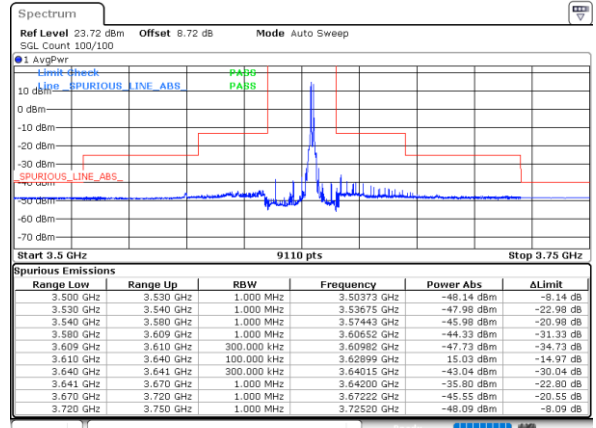
Date: 25_MAR.2023 03:20:32

Lowest Band Edge / 1RB99 and 1RB0



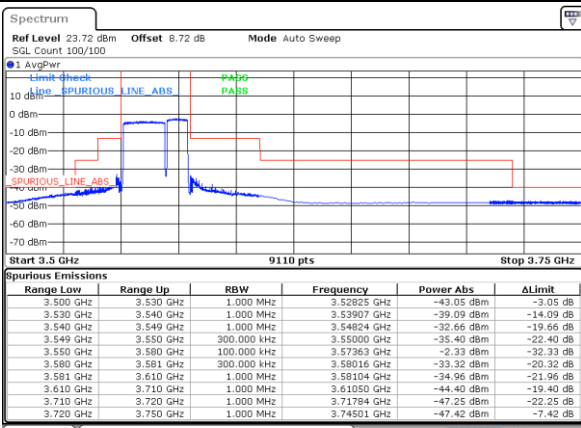
Date: 25_MAR.2023 03:02:03

Middle Band Edge / 1RB99 and 1RB0



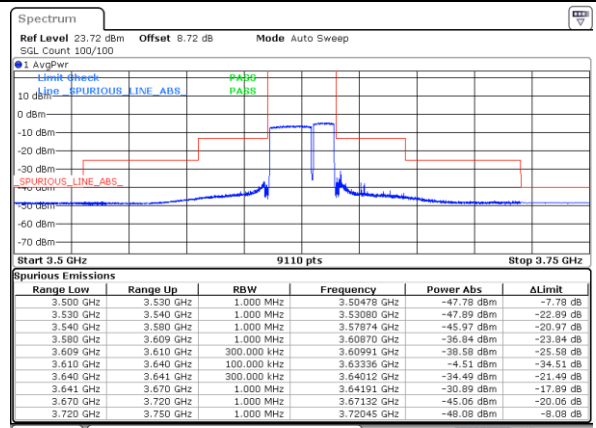
Date: 25_MAR.2023 03:29:43

Lowest Band Edge / Full RB



Date: 25_MAR.2023 08:13:03

Middle Band Edge / Full RB



Date: 25_MAR.2023 03:11:21

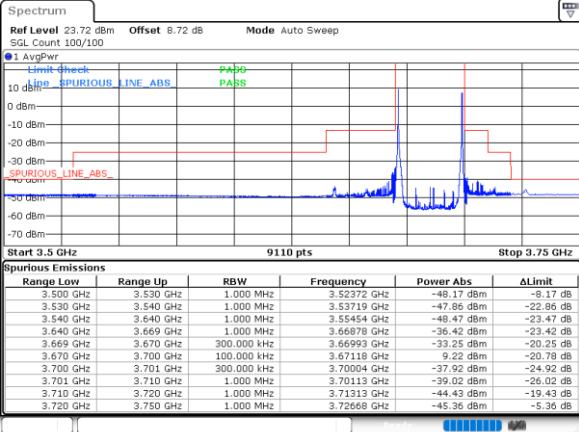


LTE Band 48C / 20MHz+10MHz

QPSK

Highest Band Edge / 1RB0 and 1RB49

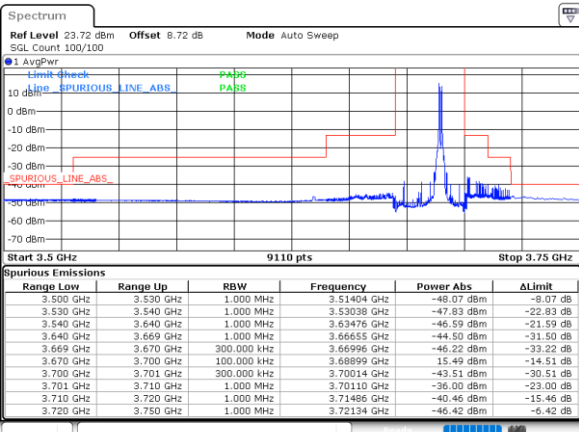
N/A



Date: 25_MAR_2023 08:40:44

Highest Band Edge / 1RB99 and 1RB0

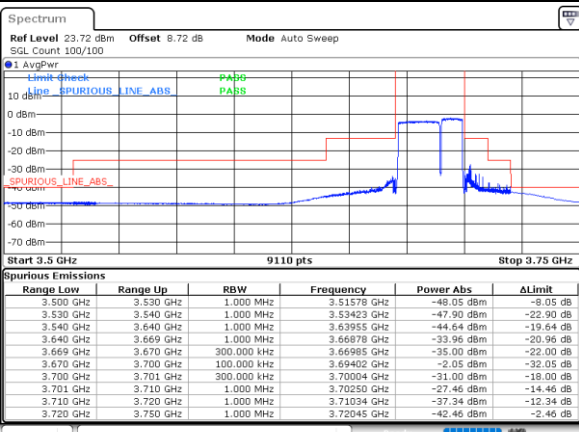
N/A



Date: 25_MAR_2023 08:58:29

Highest Band Edge / Full RB

N/A



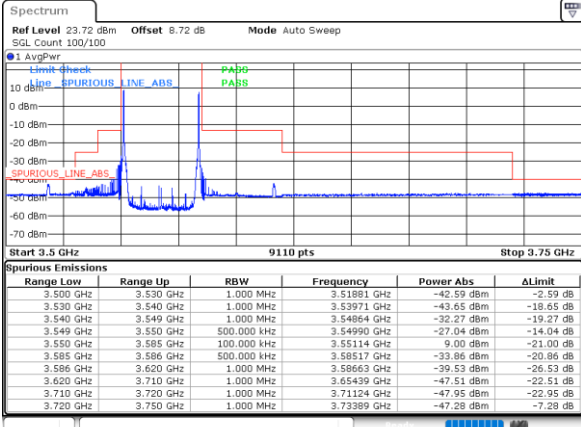
Date: 25_MAR_2023 08:31:32



LTE Band 48C / 20MHz+15MHz

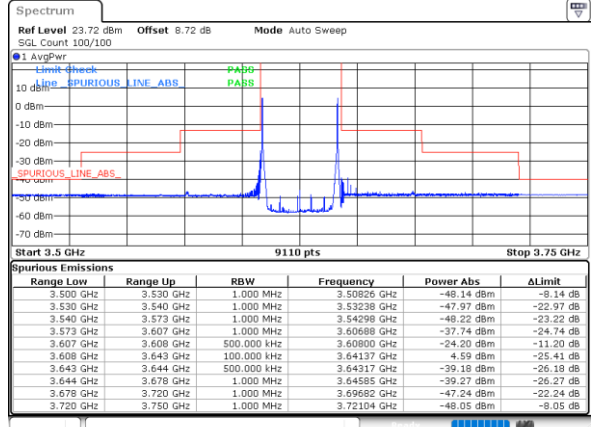
QPSK

Lowest Band Edge / 1RB0 and 1RB74



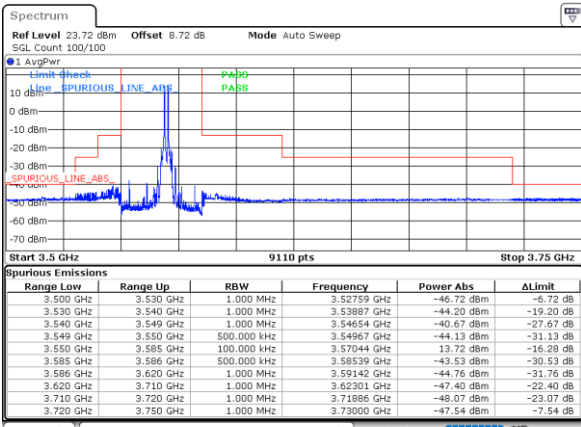
Date: 25_MAR.2023 08:59:13

Middle Band Edge / 1RB0 and 1RB74



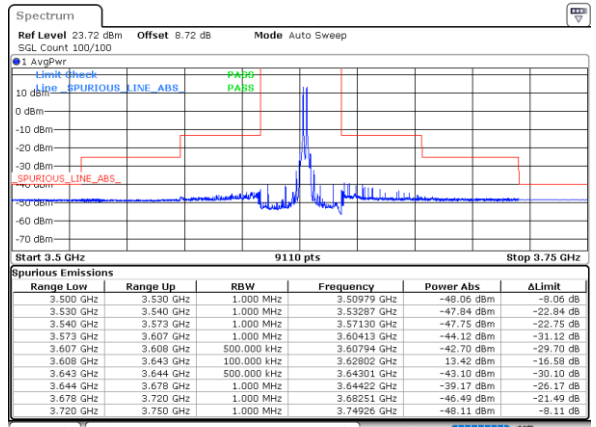
Date: 25_MAR.2023 04:47:32

Lowest Band Edge / 1RB99 and 1RB0



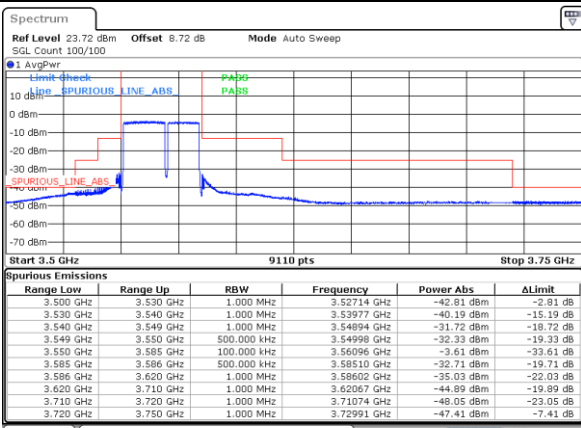
Date: 25_MAR.2023 04:26:10

Middle Band Edge / 1RB99 and 1RB0



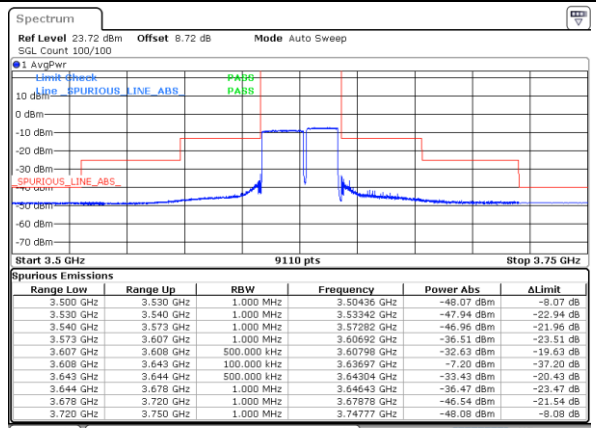
Date: 25_MAR.2023 04:56:43

Lowest Band Edge / Full RB



Date: 25_MAR.2023 08:50:02

Middle Band Edge / Full RB



Date: 25_MAR.2023 04:38:20

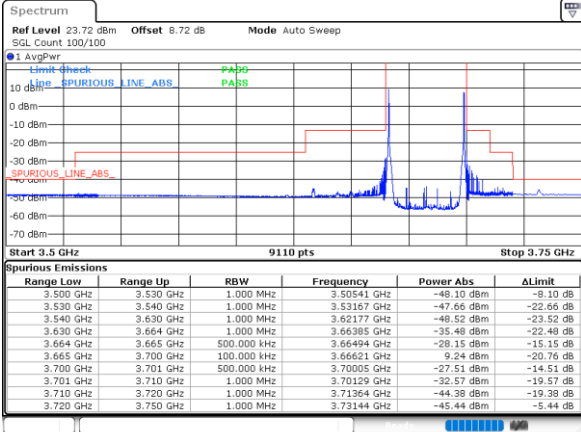


LTE Band 48C / 20MHz+15MHz

QPSK

Highest Band Edge / 1RB0 and 1RB74

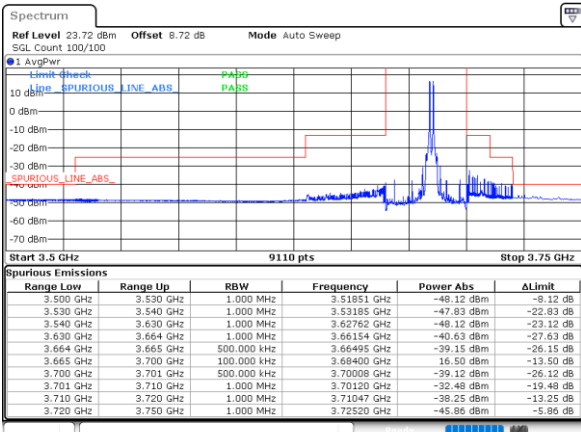
N/A



Date: 25_MAR_2023 09:17:42

Highest Band Edge / 1RB99 and 1RB0

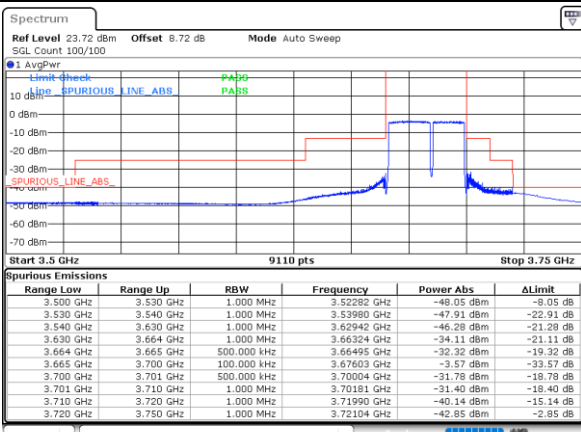
N/A



Date: 25_MAR_2023 05:50:31

Highest Band Edge / Full RB

N/A



Date: 25_MAR_2023 09:08:31

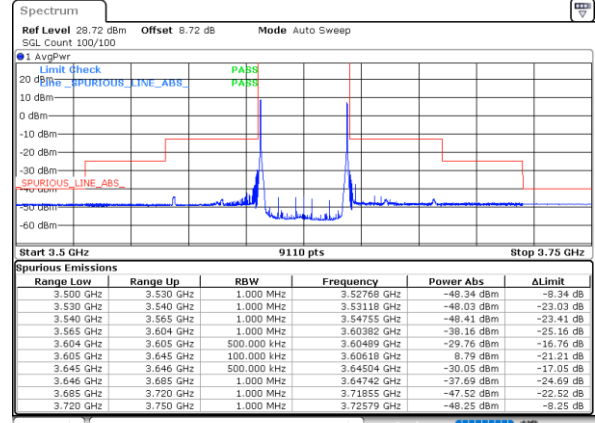
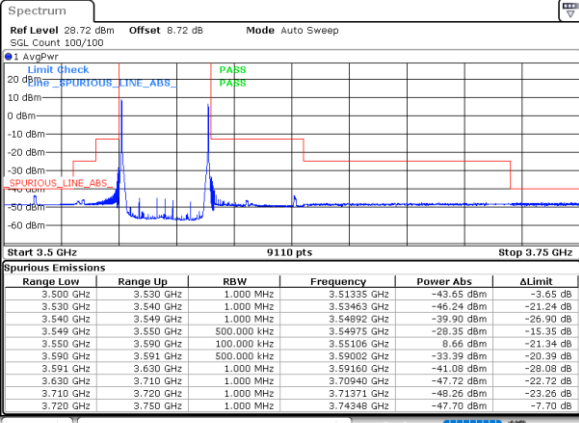


LTE Band 48C / 20MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB9

Middle Band Edge / 1RB0 and 1RB9

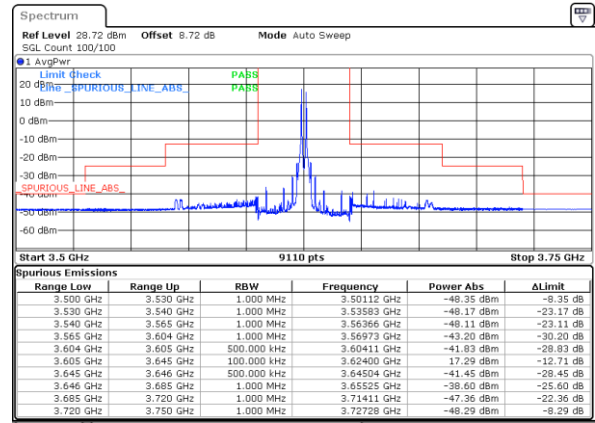
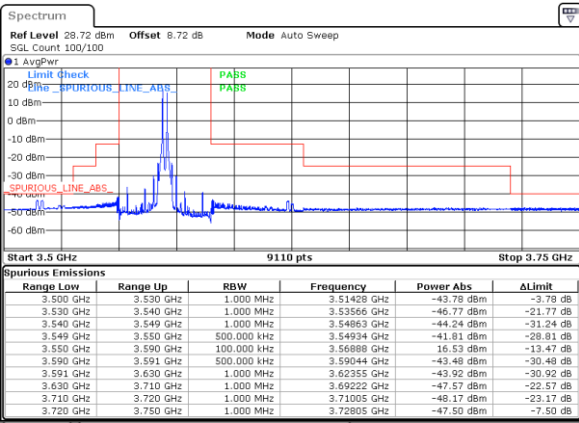


Date: 25_MAR.2023 06:17:32

Date: 25_MAR.2023 06:45:20

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

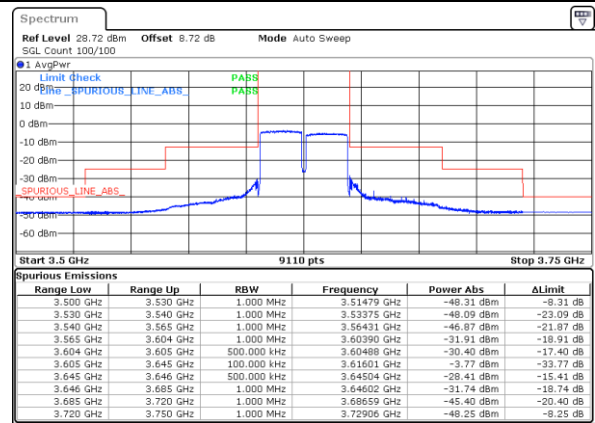
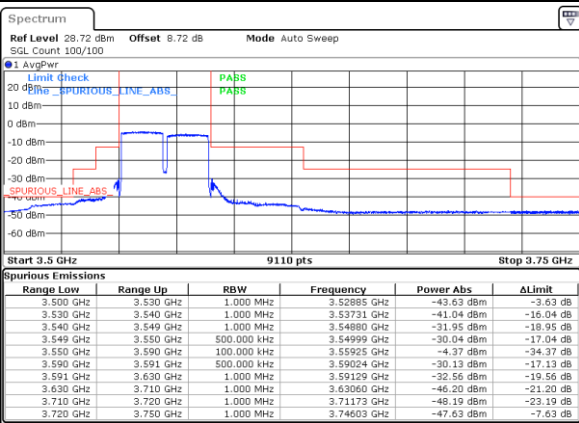


Date: 25_MAR.2023 06:24:47

Date: 25_MAR.2023 06:54:30

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 25_MAR.2023 06:08:16

Date: 25_MAR.2023 06:36:08

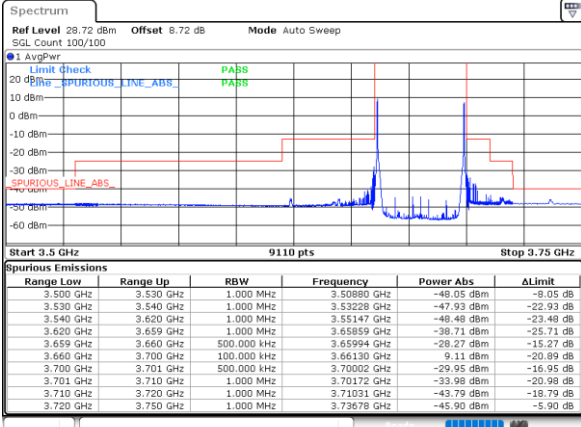


LTE Band 48C / 20MHz+20MHz

QPSK

Highest Band Edge / 1RB0 and 1RB99

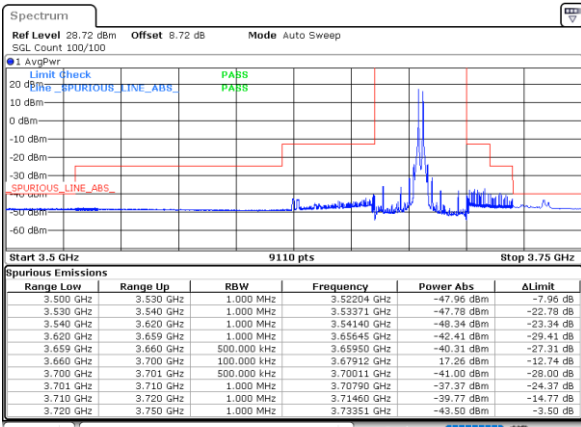
N/A



Date: 25_MAR_2023 07:13:00

Highest Band Edge / 1RB99 and 1RB0

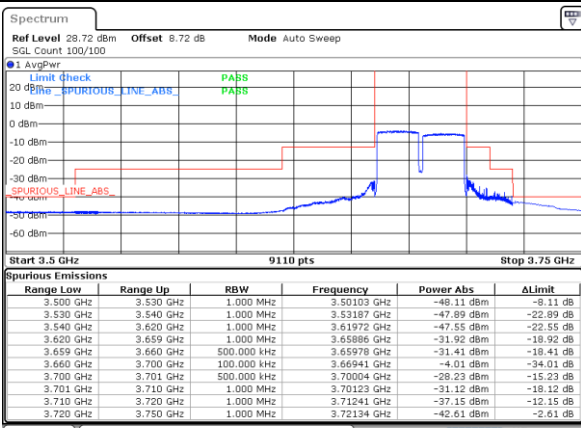
N/A



Date: 25_MAR_2023 07:22:13

Highest Band Edge / Full RB

N/A



Date: 25_MAR_2023 07:03:48

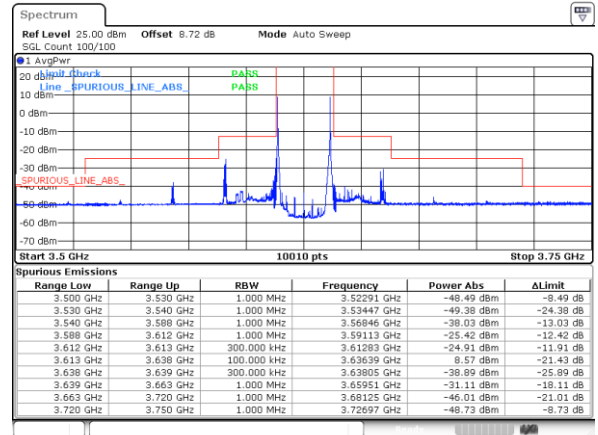
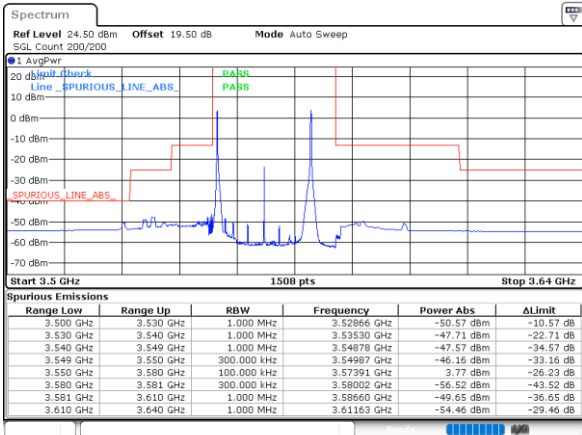


LTE Band 48C / 5MHz+20MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB9

Middle Band Edge / 1RB0 and 1RB9

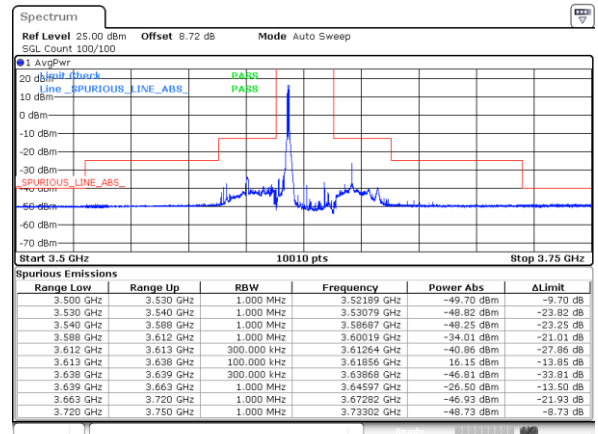
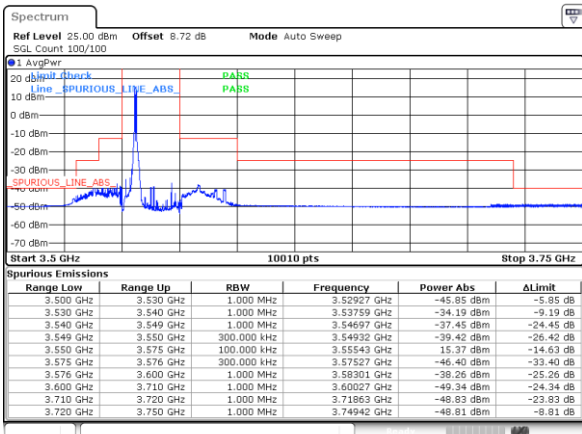


Date: 16.APR.2023 02:41:16

Date: 23.MAR.2023 19:40:56

Lowest Band Edge / 1RB24 and 1RB0

Middle Band Edge / 1RB24 and 1RB0

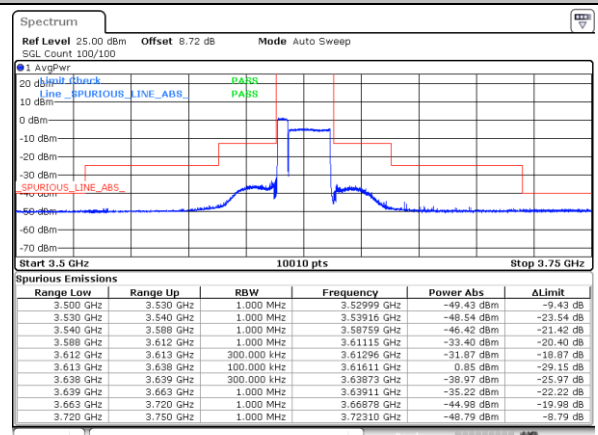
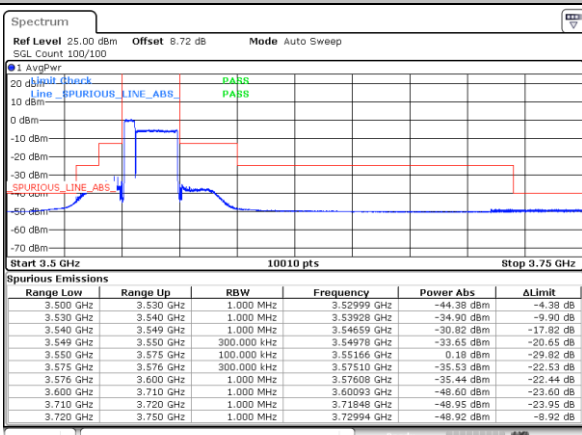


Date: 23.MAR.2023 19:05:02

Date: 23.MAR.2023 19:52:51

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 23.MAR.2023 19:16:08

Date: 23.MAR.2023 19:29:00

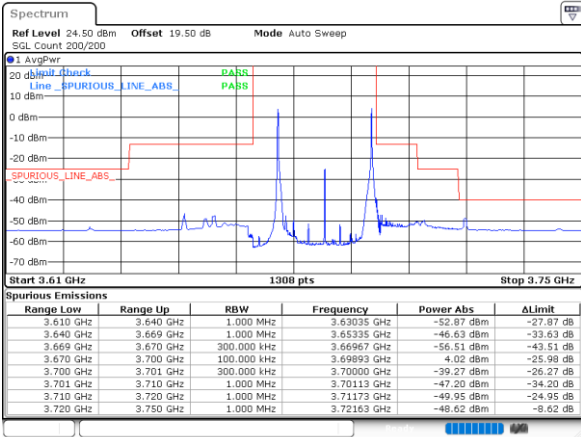


LTE Band 48C / 5MHz+20MHz

16QAM

Highest Band Edge / 1RB0 and 1RB99

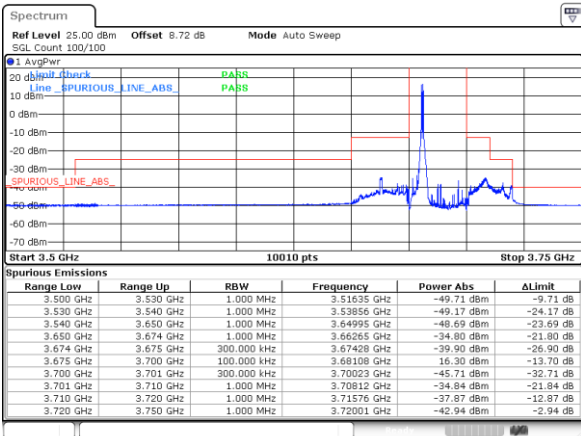
N/A



Date: 16.APR.2023 02:10:07

Highest Band Edge / 1RB24 and 1RB0

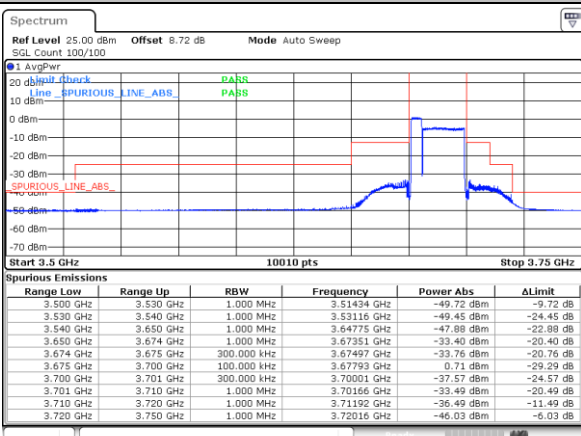
N/A



Date: 23.MAR.2023 20:04:53

Highest Band Edge / Full RB

N/A



Date: 23.MAR.2023 20:32:15