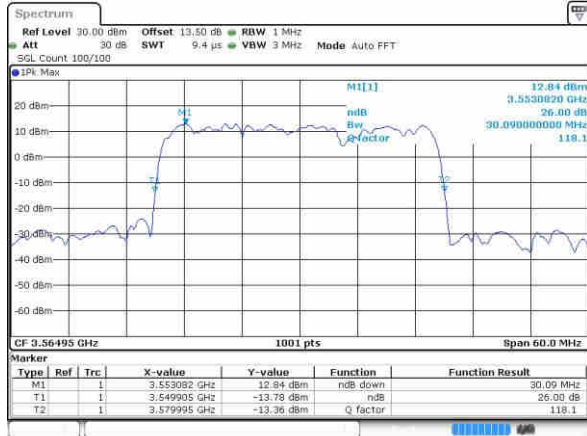




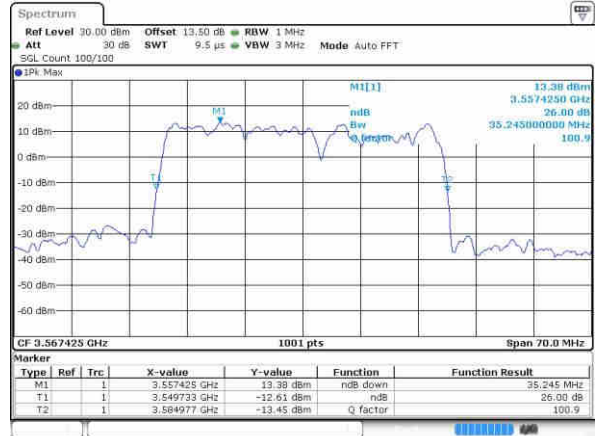
LTE Band 48

64QAM

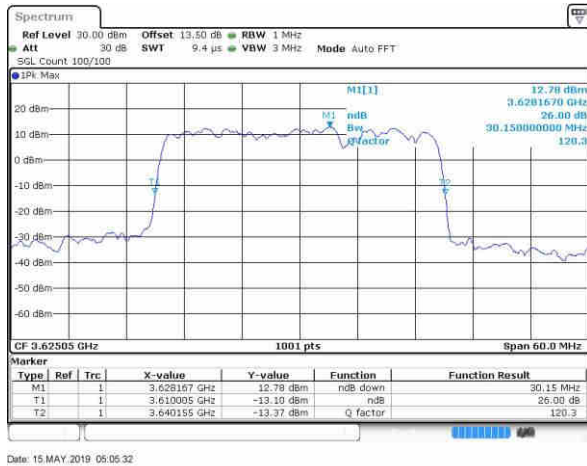
Lowest Channel / 15MHz+15MHz



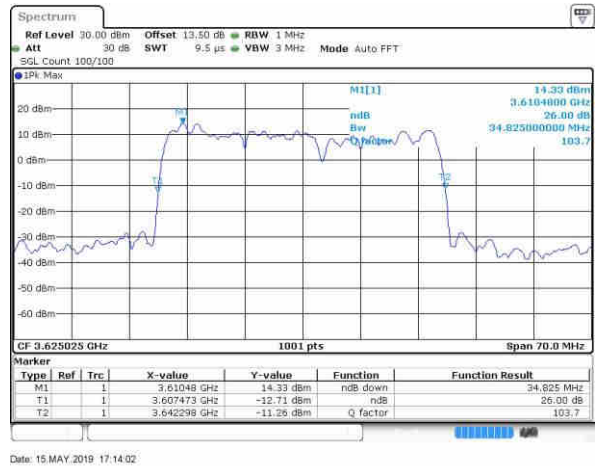
Lowest Channel / 15MHz+20MHz



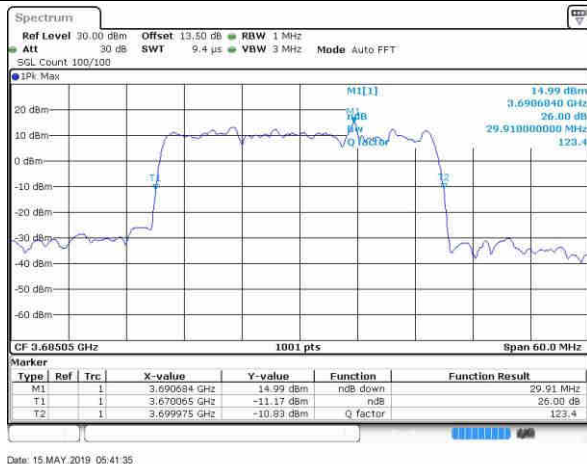
Middle Channel / 20MHz+10MHz



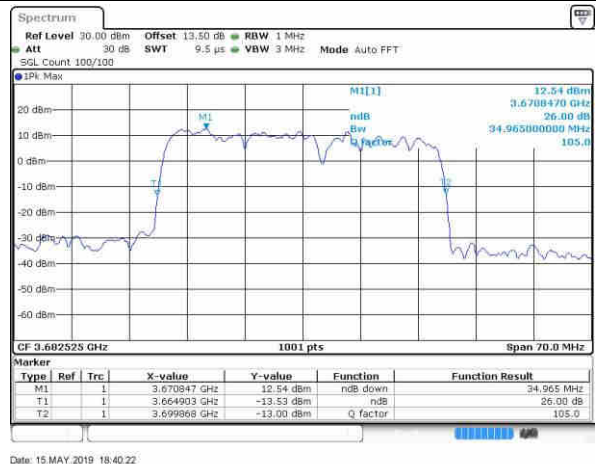
Middle Channel / 20MHz+15MHz

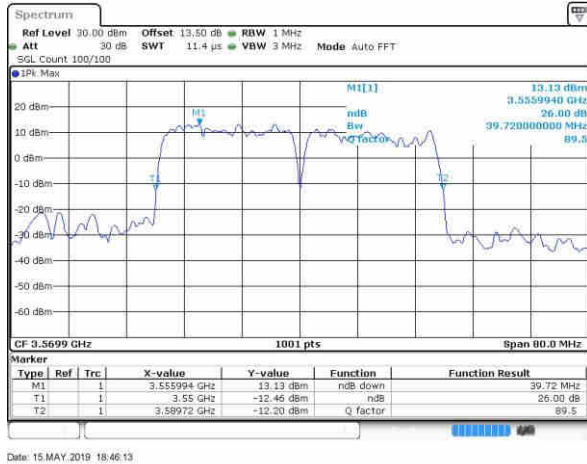
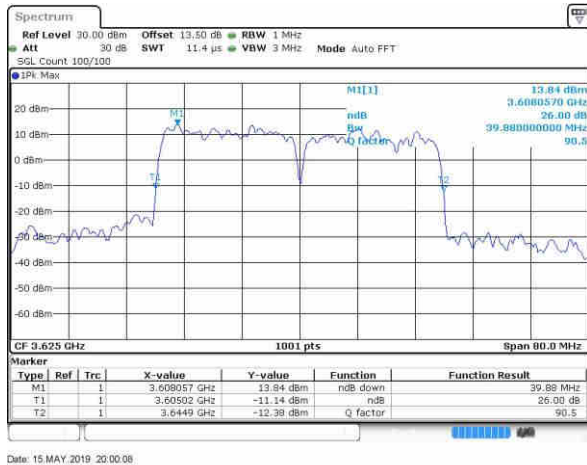
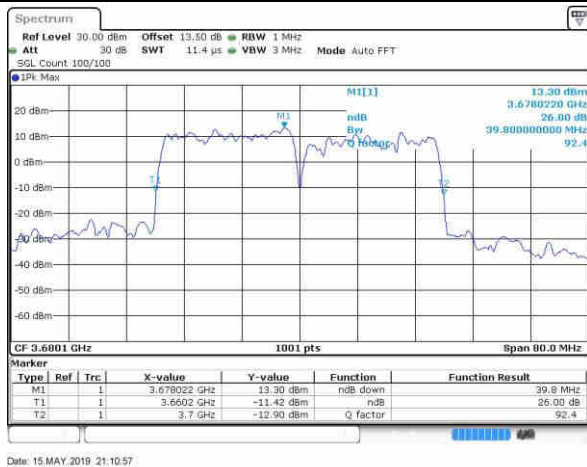


Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



LTE Band 48
64QAM
Lowest Channel / 20MHz+20MHz

Middle Channel / 20MHz+20MHz

Highest Channel / 20MHz+20MHz


Occupied Bandwidth

Mode	LTE Band 48 : 99%OBW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	23.23	27.75	32.80	23.38
Middle CH	23.18	27.87	33.08	23.43
Highest CH	23.48	27.75	32.87	23.08
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	
Lowest CH	27.99	32.80	37.56	
Middle CH	28.05	33.01	37.80	
Highest CH	27.99	32.94	37.72	

Mode	LTE Band 48 : 99%OBW(MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	23.13	27.87	32.94	23.38
Middle CH	22.78	28.17	32.52	23.18
Highest CH	23.08	28.05	32.66	23.28
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	
Lowest CH	28.29	33.01	37.64	
Middle CH	28.17	32.94	37.96	
Highest CH	27.99	32.73	37.32	

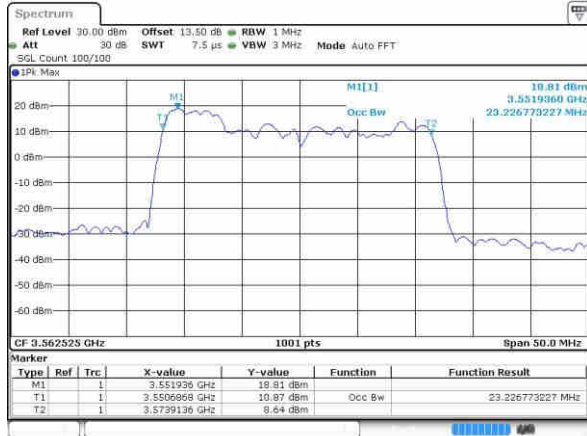
Mode	LTE Band 48 : 99%OBW(MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Lowest CH	23.08	28.05	32.94	23.33
Middle CH	22.78	28.17	32.73	23.18
Highest CH	23.23	28.17	33.08	23.13
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	
Lowest CH	28.35	32.87	38.04	
Middle CH	28.17	32.80	37.80	
Highest CH	28.11	33.08	37.64	



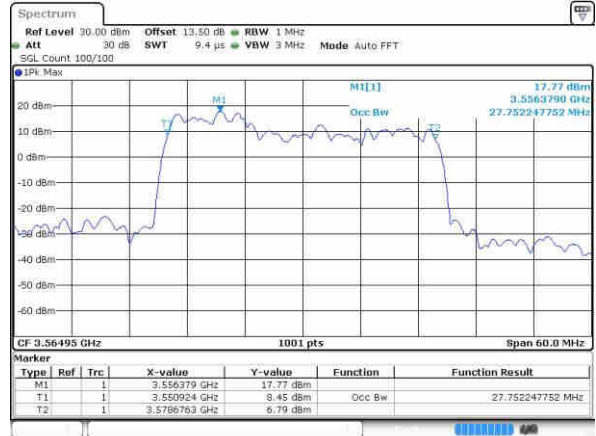
LTE Band 48

QPSK

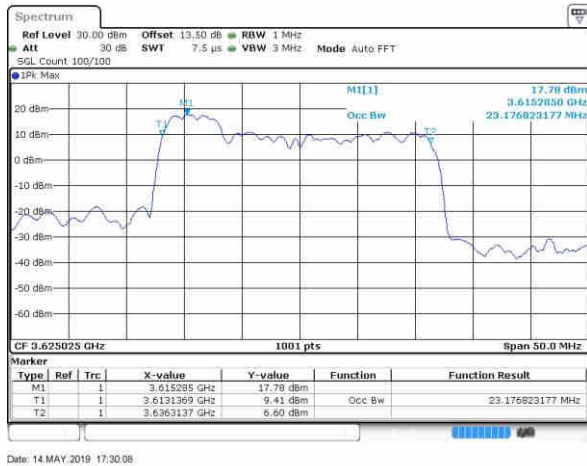
Lowest Channel / 5MHz+20MHz



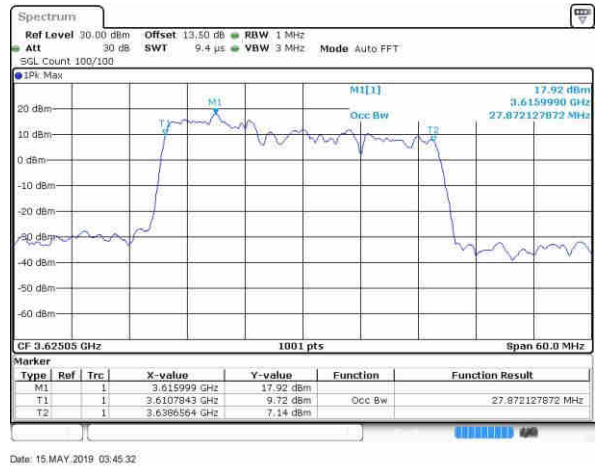
Lowest Channel / 10MHz+20MHz



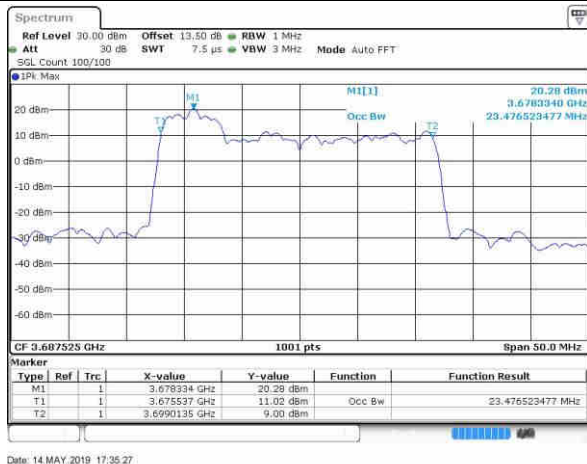
Middle Channel / 5MHz+20MHz



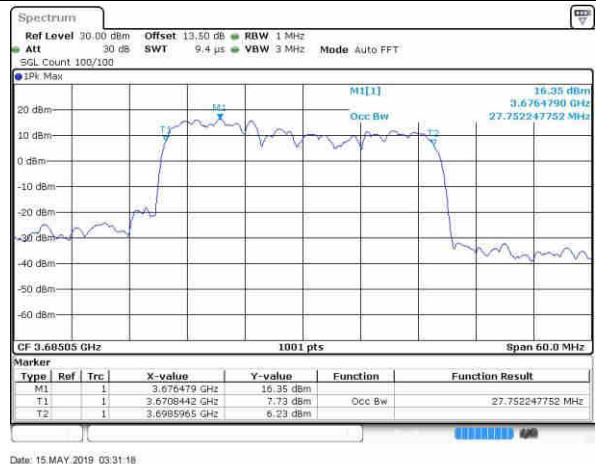
Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+20MHz

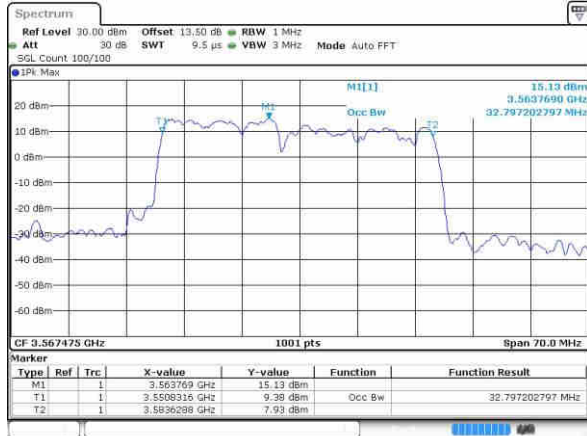




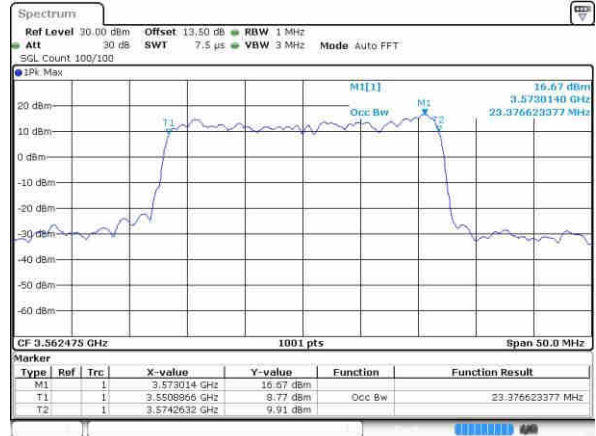
LTE Band 48

QPSK

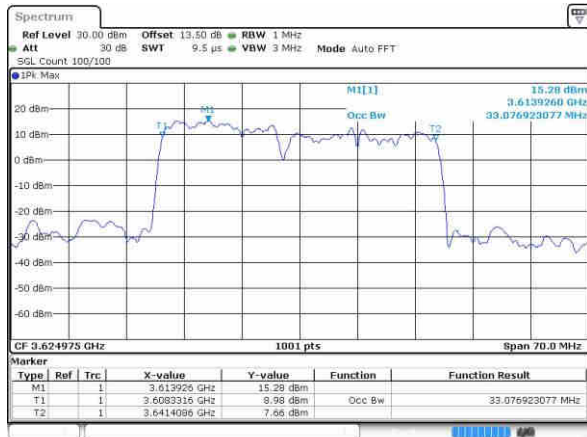
Lowest Channel / 15MHz+20MHz



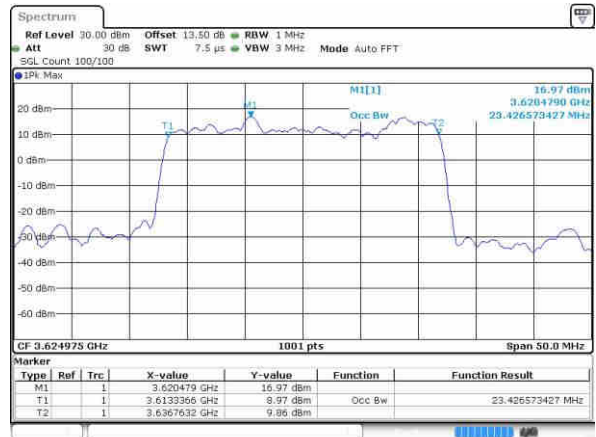
Lowest Channel / 20MHz+5MHz



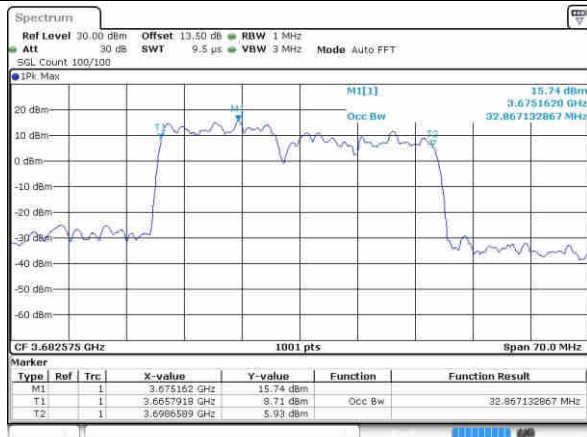
Middle Channel / 15MHz+20MHz



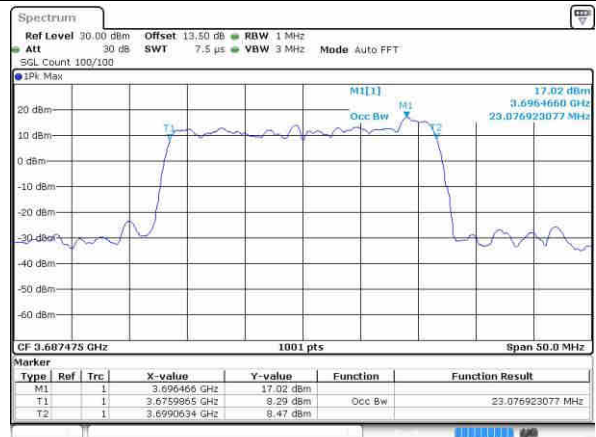
Middle Channel / 20MHz+5MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+5MHz

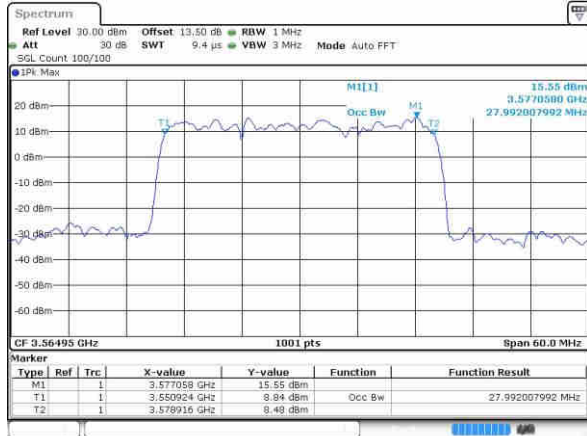




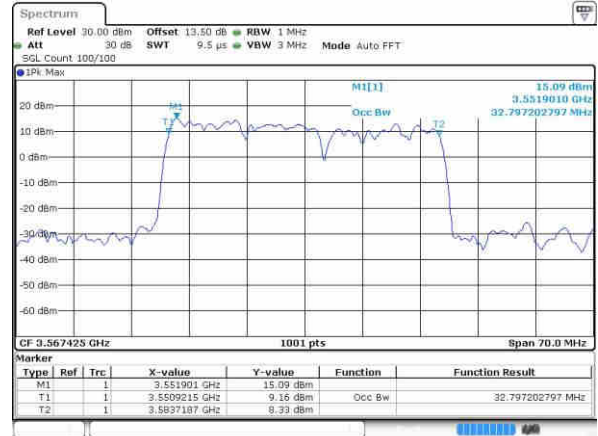
LTE Band 48

QPSK

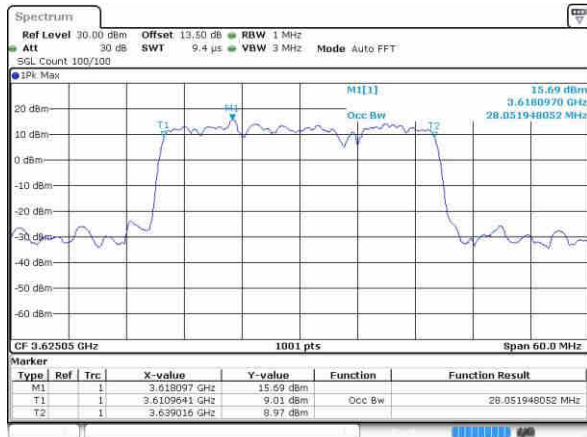
Lowest Channel / 20MHz+10MHz



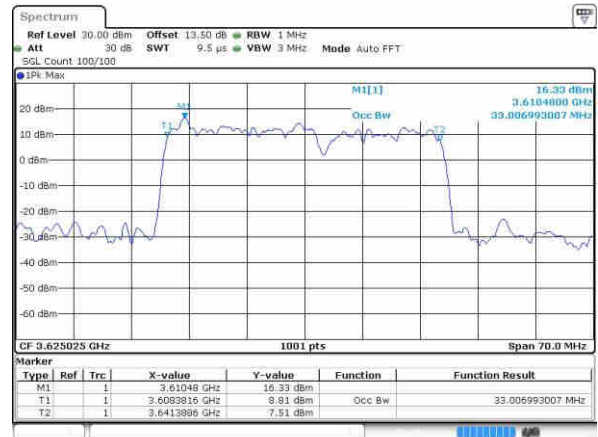
Lowest Channel / 20MHz+15MHz



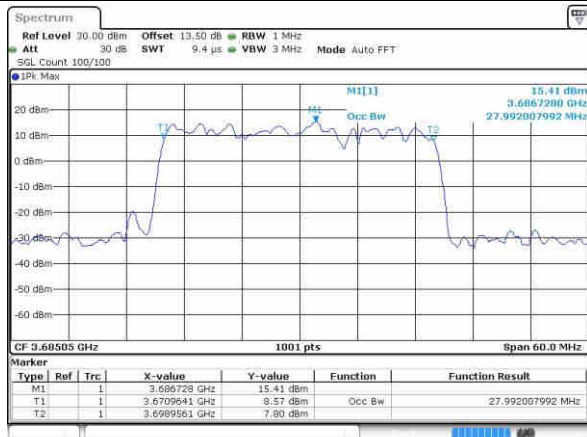
Middle Channel / 20MHz+10MHz



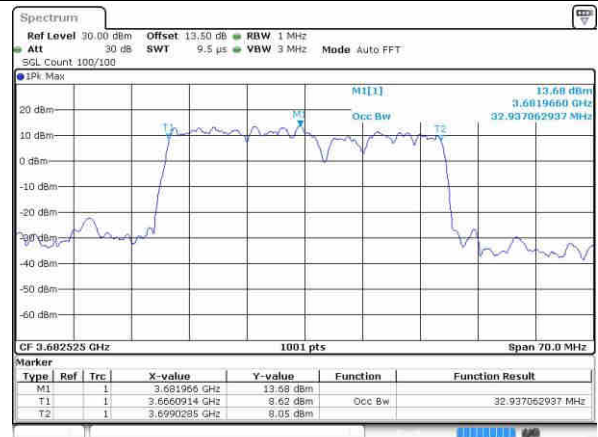
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz

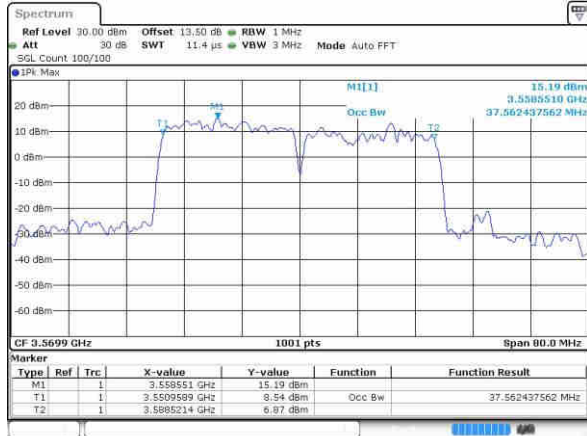




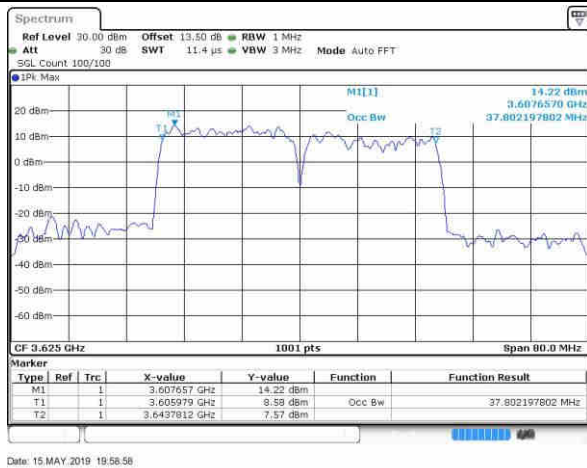
LTE Band 48

QPSK

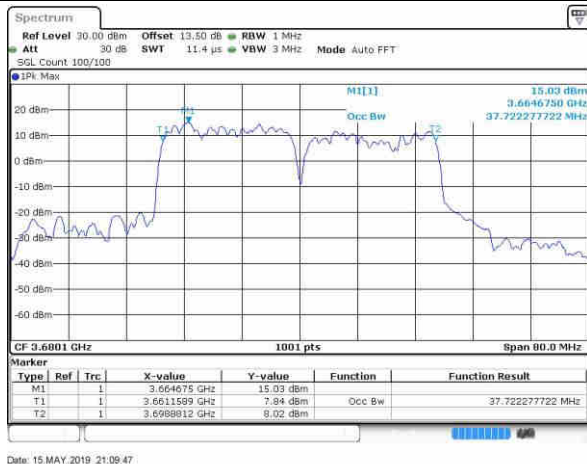
Lowest Channel / 20MHz+20MHz



Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+20MHz

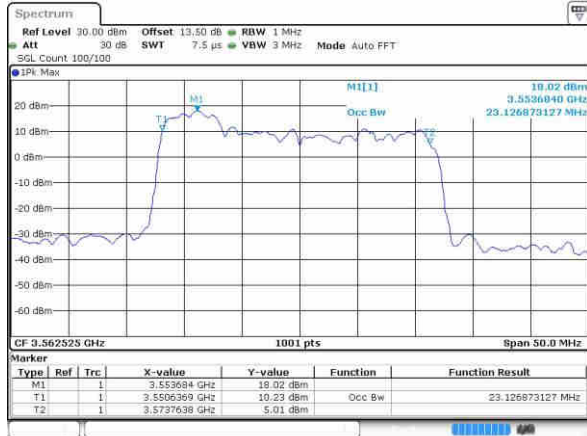




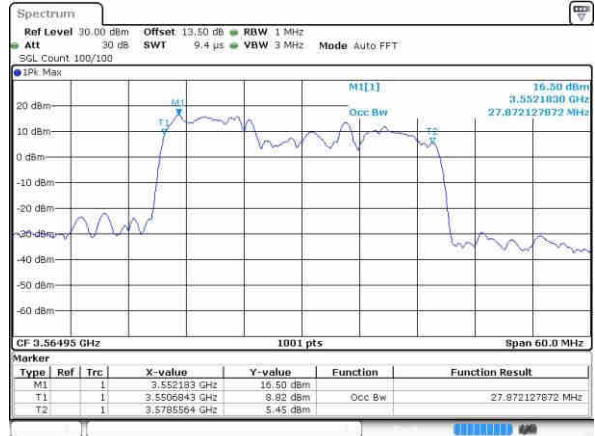
LTE Band 48

16QAM

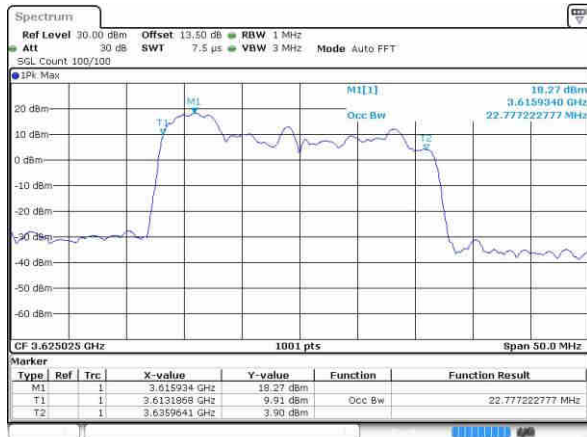
Lowest Channel / 5MHz+20MHz



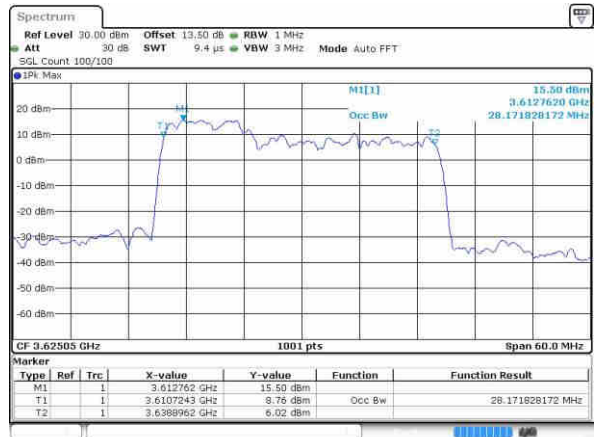
Lowest Channel / 10MHz+20MHz



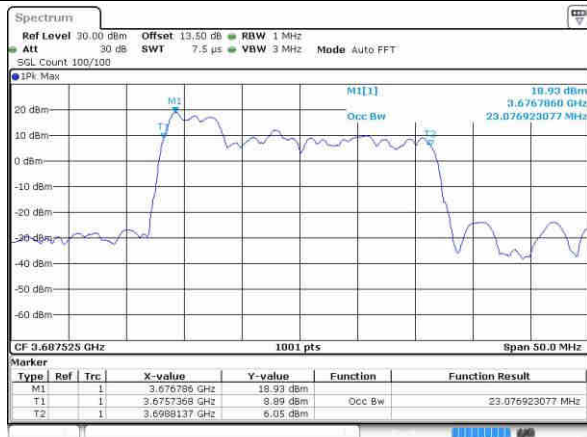
Middle Channel / 5MHz+20MHz



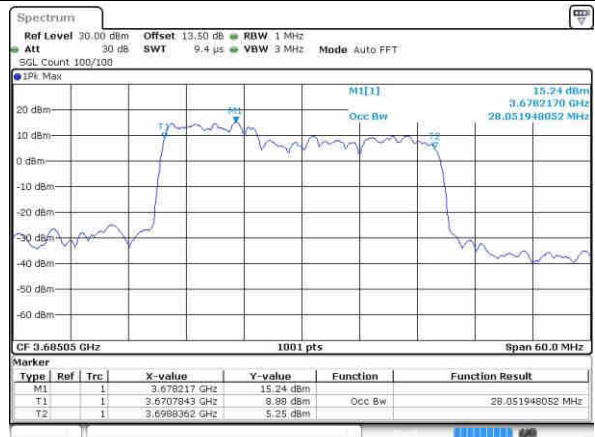
Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+20MHz

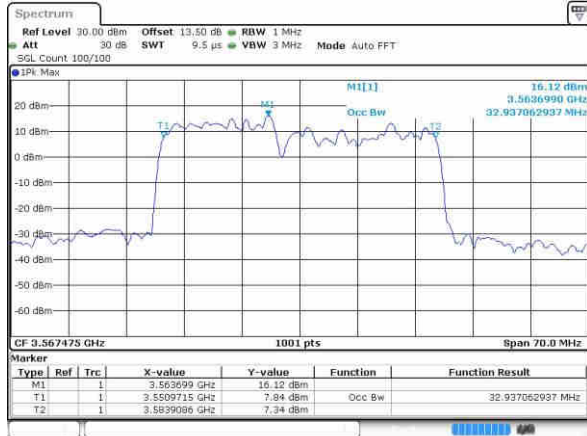




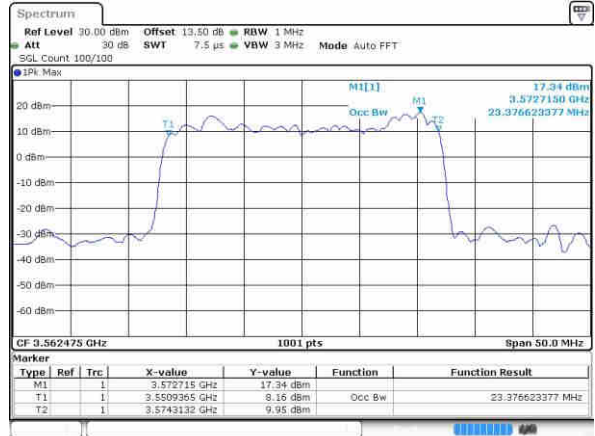
LTE Band 48

16QAM

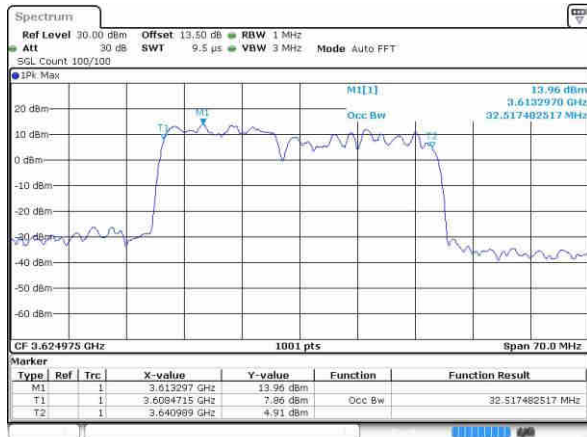
Lowest Channel / 15MHz+20MHz



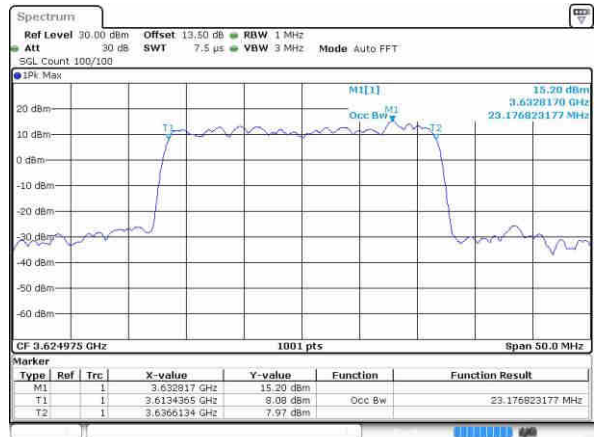
Lowest Channel / 20MHz+5MHz



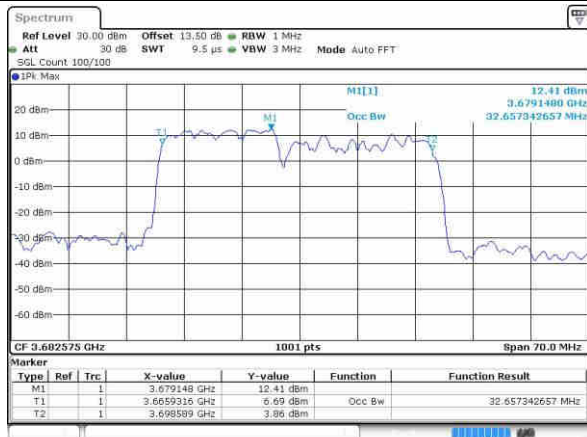
Middle Channel / 15MHz+20MHz



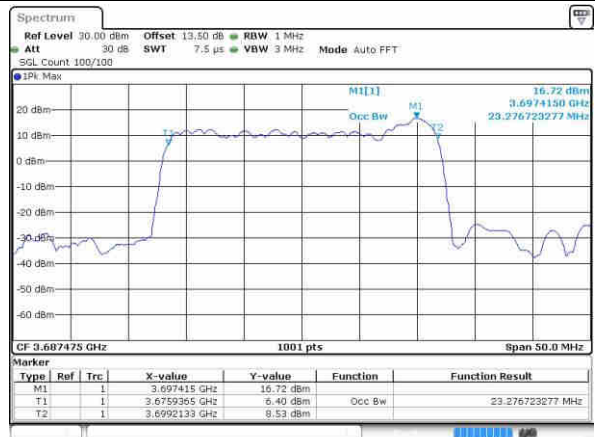
Middle Channel / 20MHz+5MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+5MHz

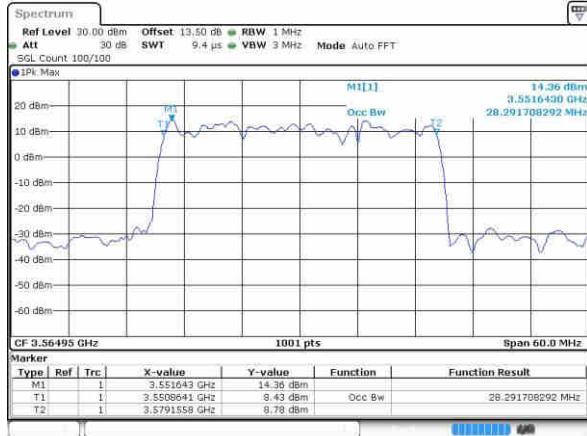




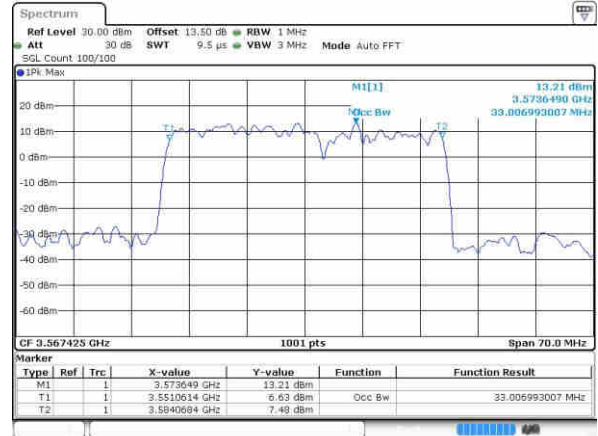
LTE Band 48

16QAM

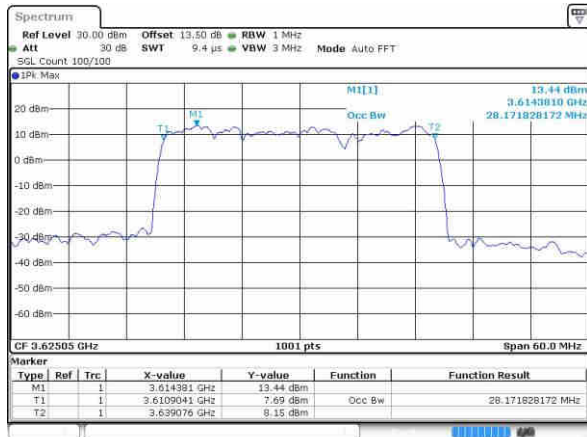
Lowest Channel / 20MHz+10MHz



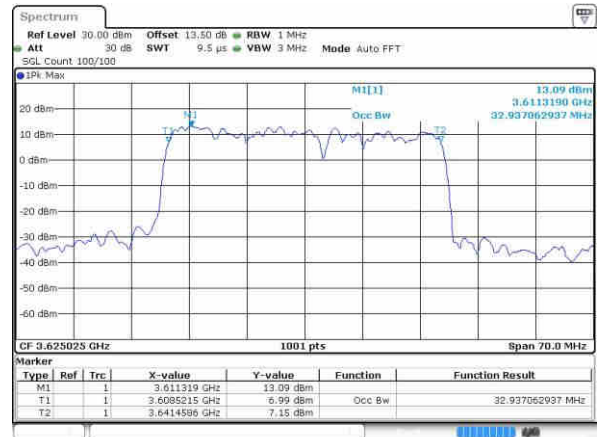
Lowest Channel / 20MHz+15MHz



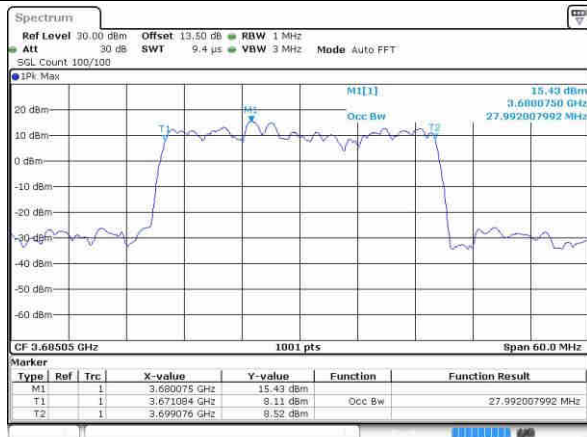
Middle Channel / 20MHz+10MHz



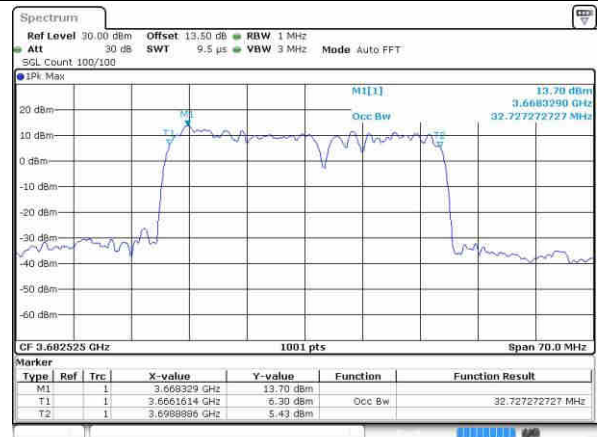
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz

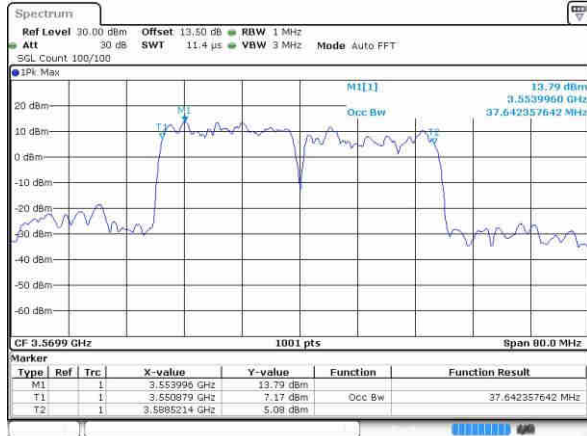




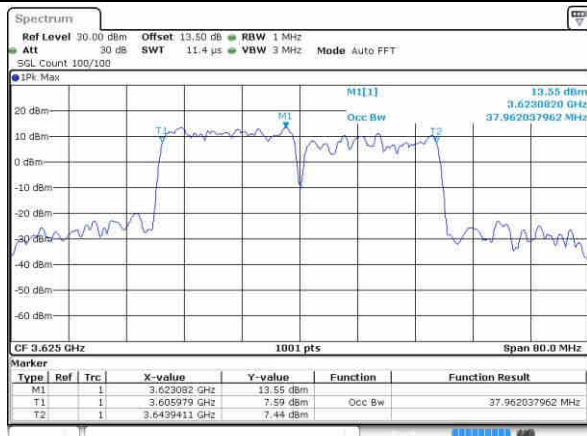
LTE Band 48

16QAM

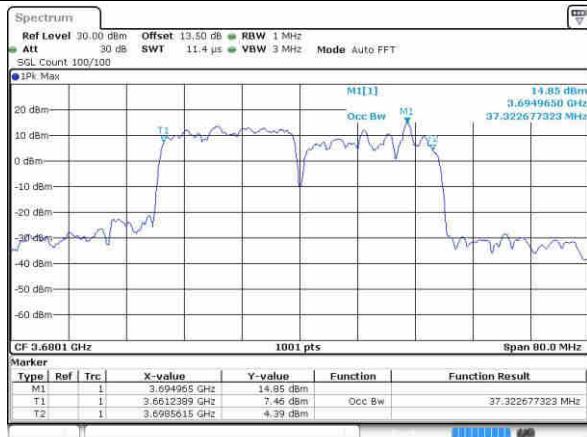
Lowest Channel / 20MHz+20MHz



Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+20MHz

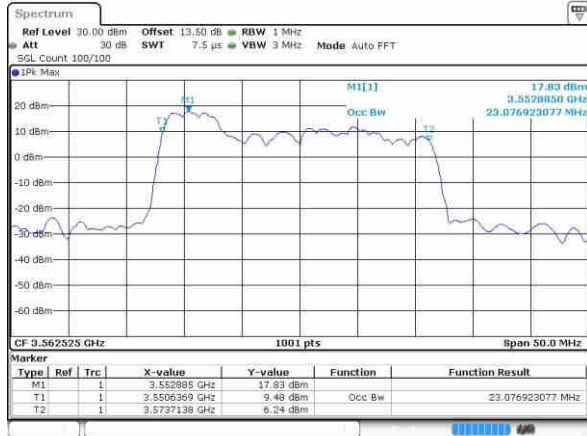




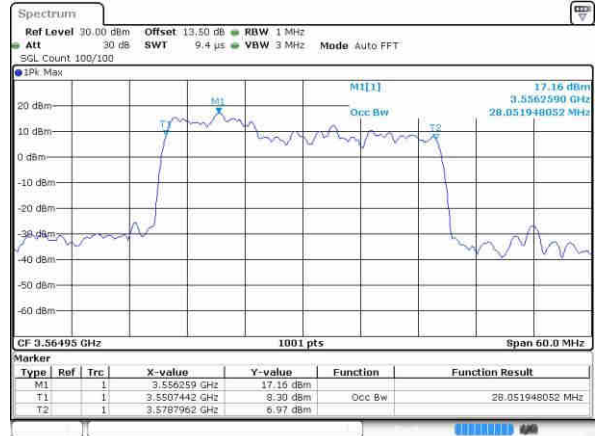
LTE Band 48

64QAM

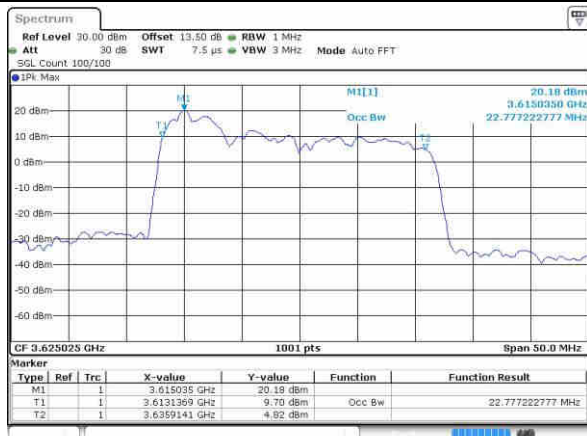
Lowest Channel / 5MHz+20MHz



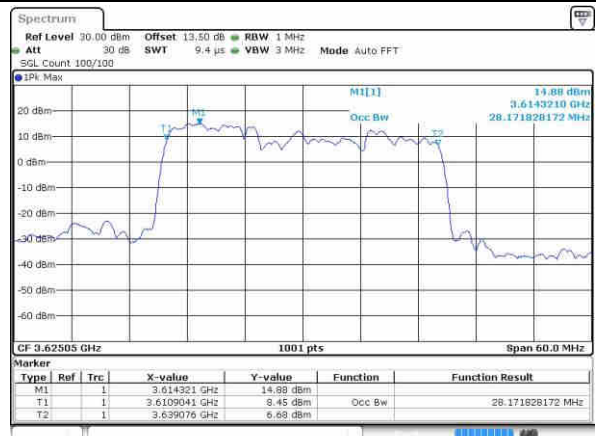
Lowest Channel / 10MHz+20MHz



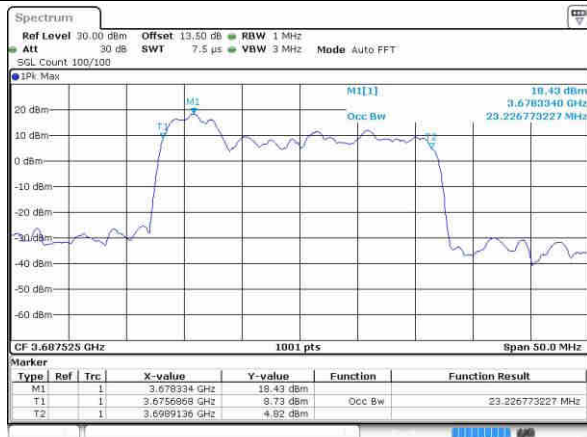
Middle Channel / 5MHz+20MHz



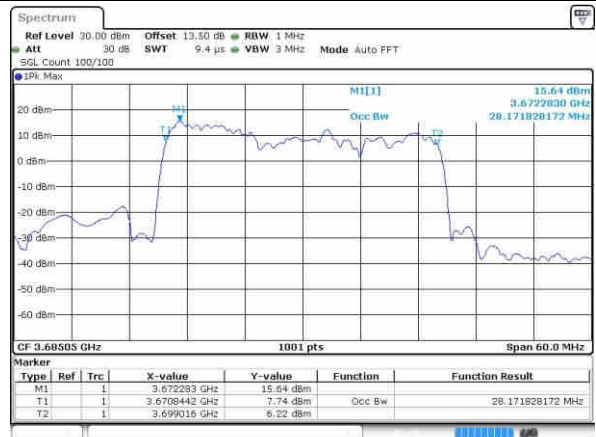
Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+20MHz

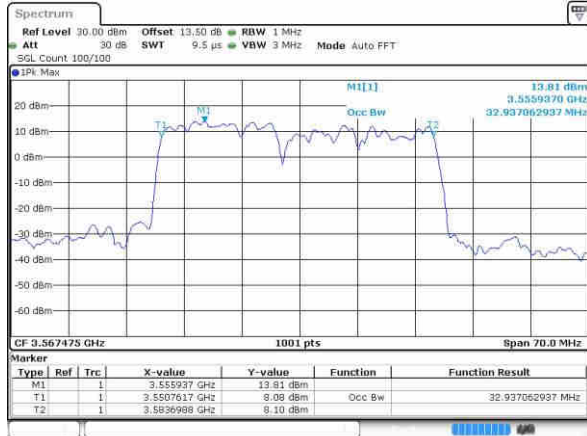




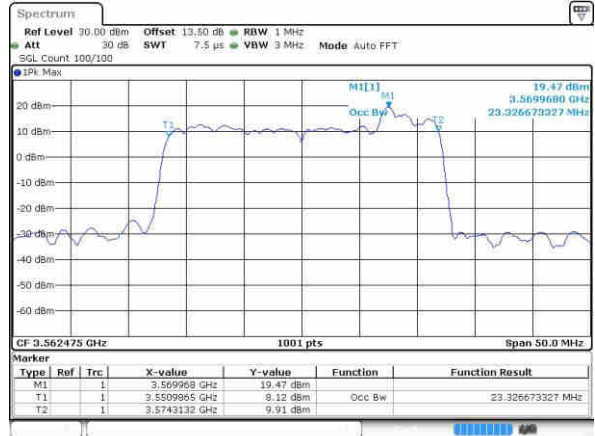
LTE Band 48

64QAM

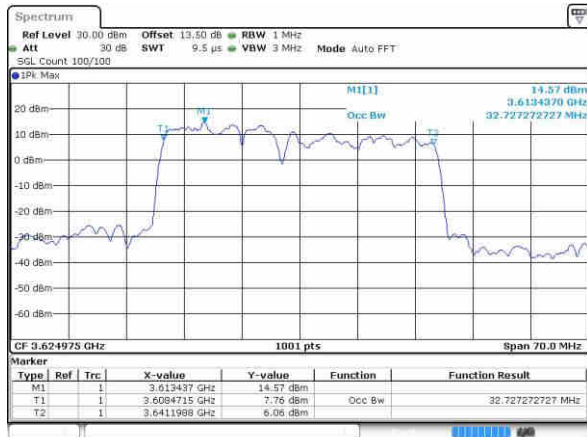
Lowest Channel / 15MHz+20MHz



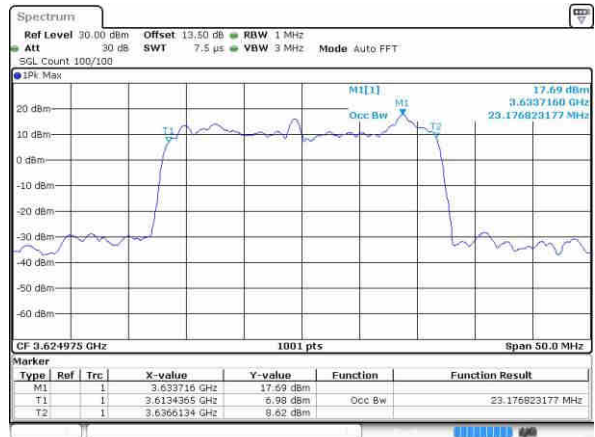
Lowest Channel / 20MHz+5MHz



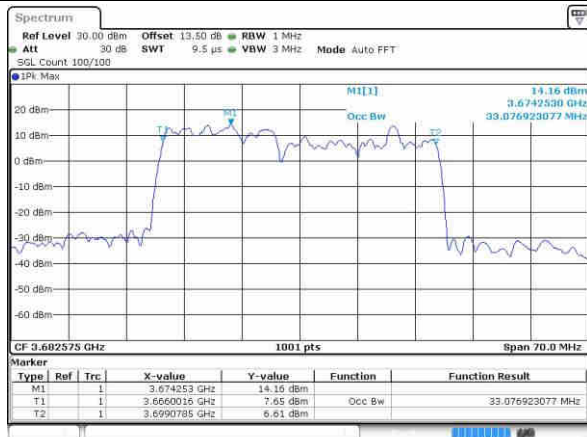
Middle Channel / 15MHz+20MHz



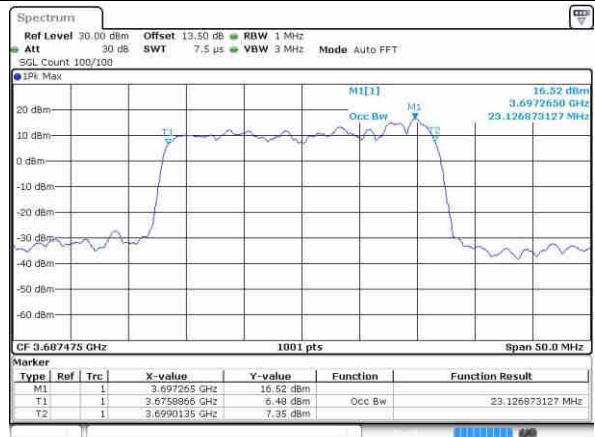
Middle Channel / 20MHz+5MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+5MHz

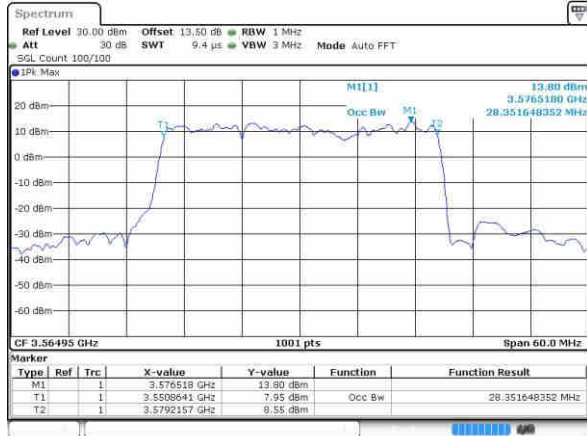




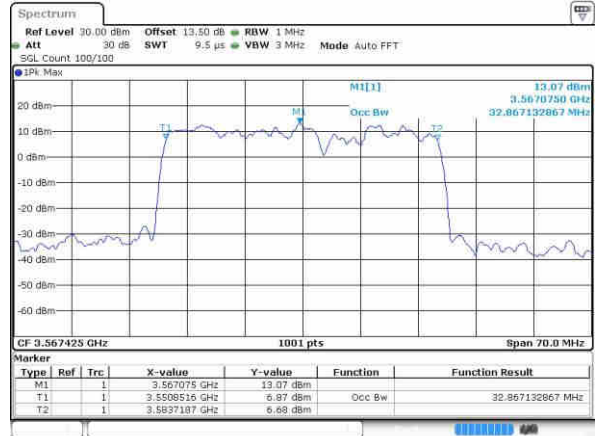
LTE Band 48

64QAM

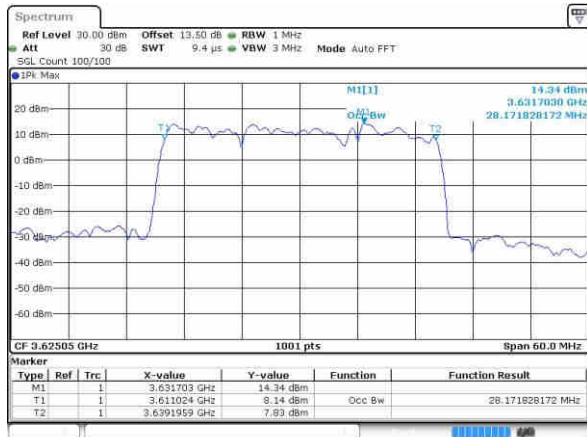
Lowest Channel / 20MHz+10MHz



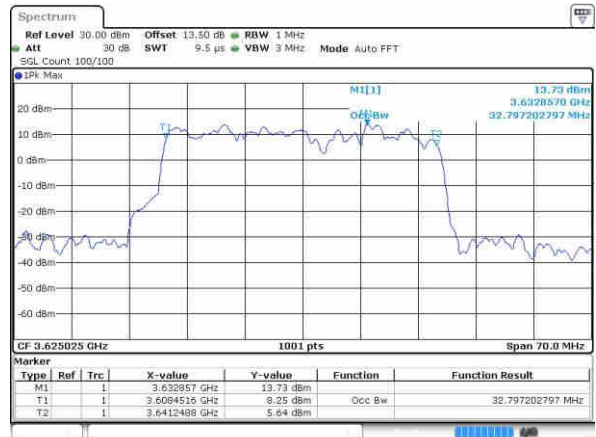
Lowest Channel / 20MHz+15MHz



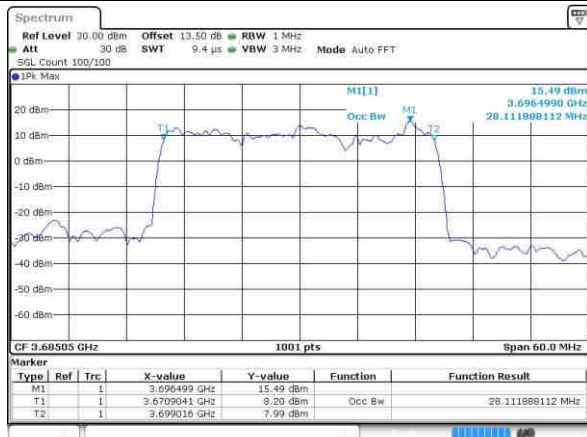
Middle Channel / 20MHz+10MHz



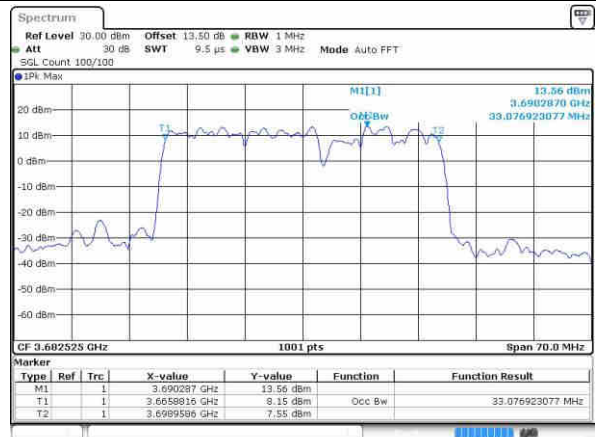
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz

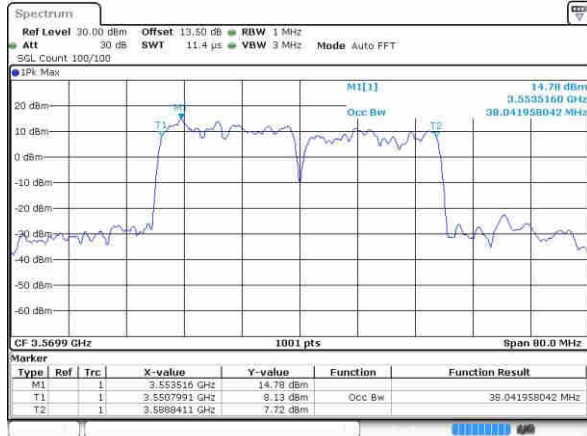




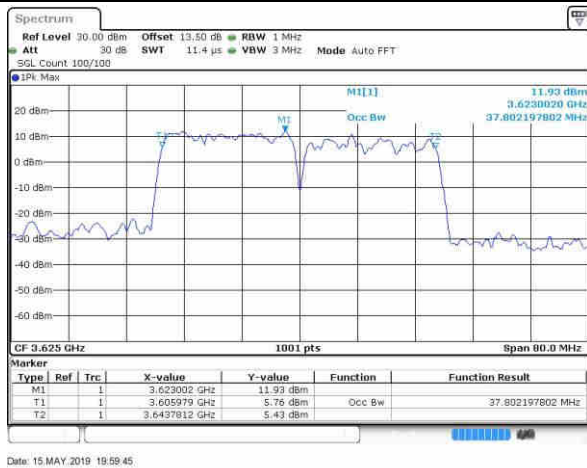
LTE Band 48

64QAM

Lowest Channel / 20MHz+20MHz



Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+20MHz





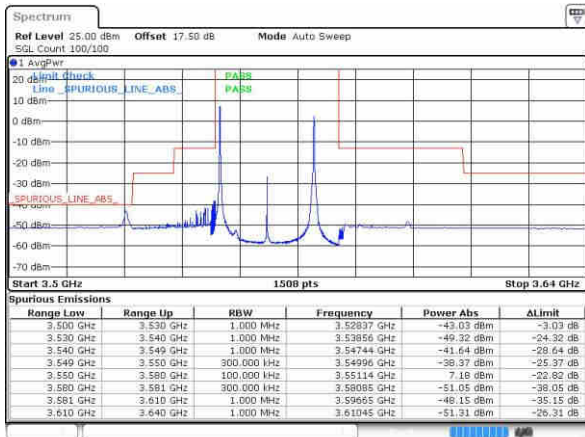
Conducted Band Edge



LTE Band 48 / 5MHz+20MHz

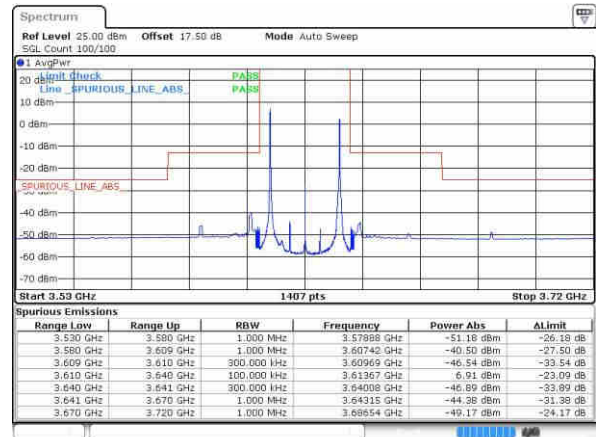
QPSK

Lowest Band Edge / 1RB0 and 1RB99



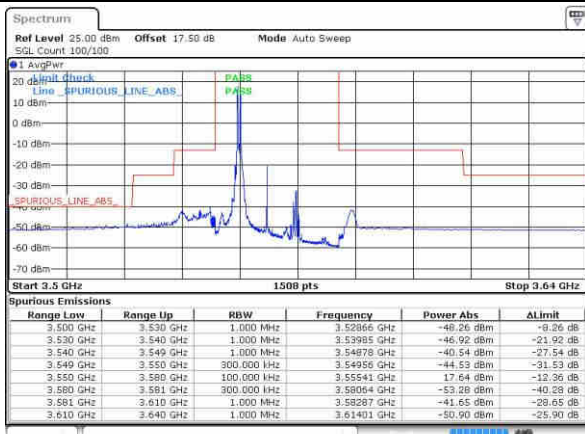
Date: 14 MAY 2019 22:09:43

Middle Band Edge / 1RB0 and 1RB99



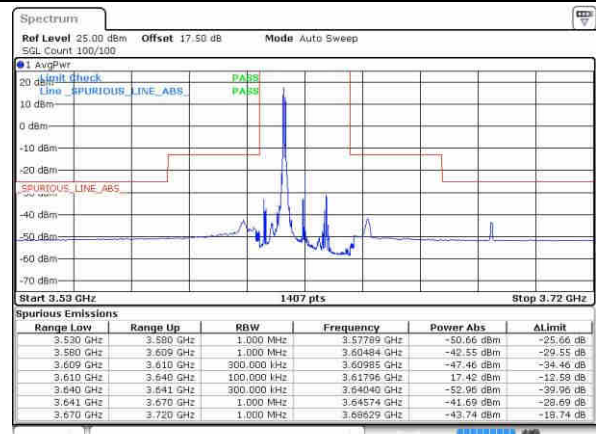
Date: 14 MAY 2019 22:37:53

Lowest Band Edge / 1RB24 and 1RB0



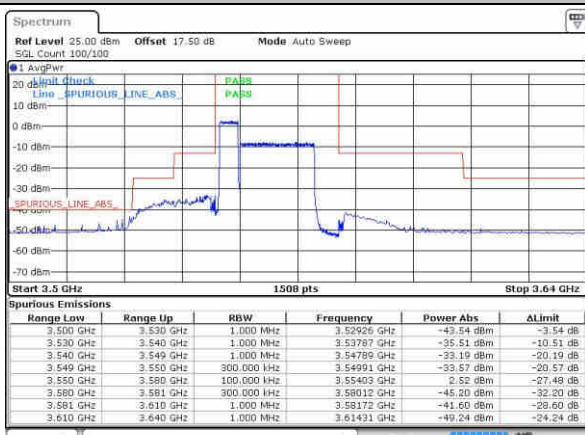
Date: 14 MAY 2019 22:11:25

Middle Band Edge / 1RB24 and 1RB0



Date: 14 MAY 2019 22:39:34

Lowest Band Edge / Full RB



Date: 14 MAY 2019 22:01:07

Middle Band Edge / Full RB



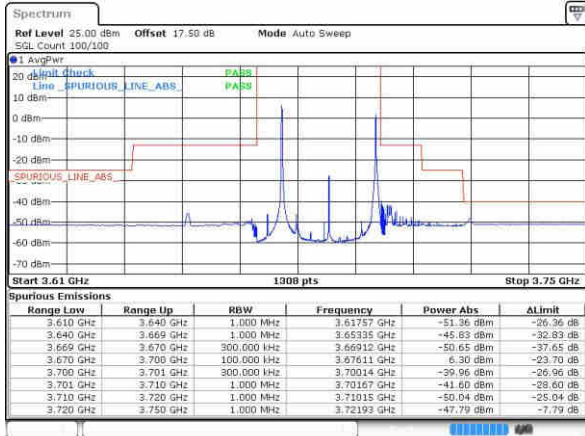
Date: 14 MAY 2019 22:29:20



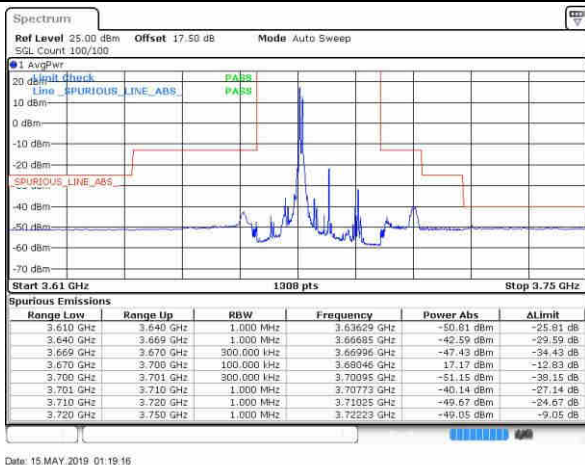
LTE Band 48 / 5MHz+20MHz

QPSK

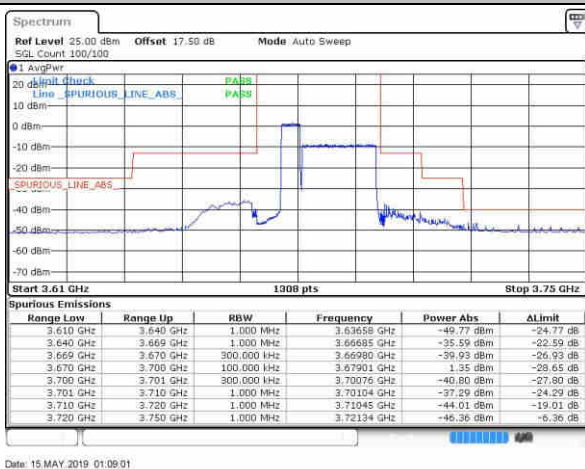
Highest Band Edge / 1RB0 and 1RB99



Highest Band Edge / 1RB24 and 1RB0



Highest Band Edge / Full RB

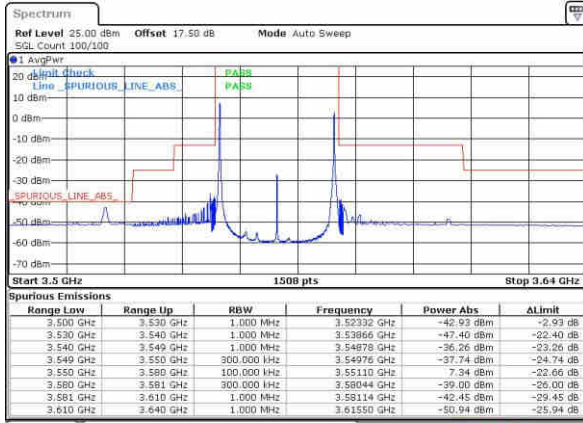




LTE Band 48 / 10MHz+20MHz

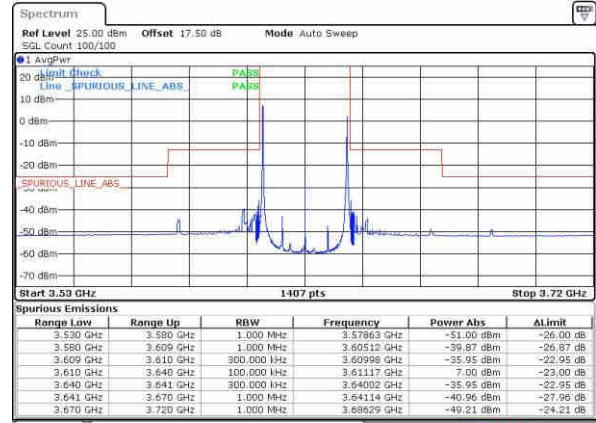
QPSK

Lowest Band Edge / 1RB0 and 1RB99



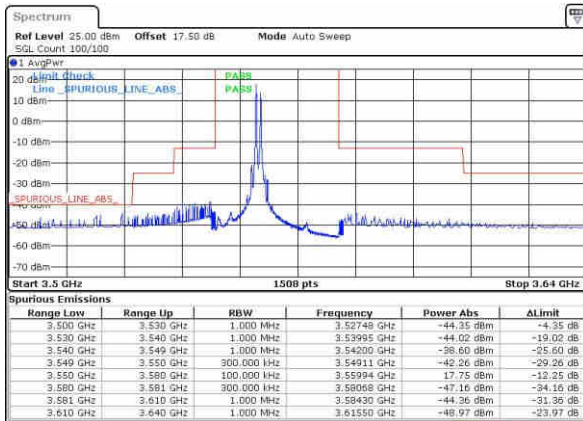
Date: 15 MAY 2019 02:00:18

Middle Band Edge / 1RB0 and 1RB99



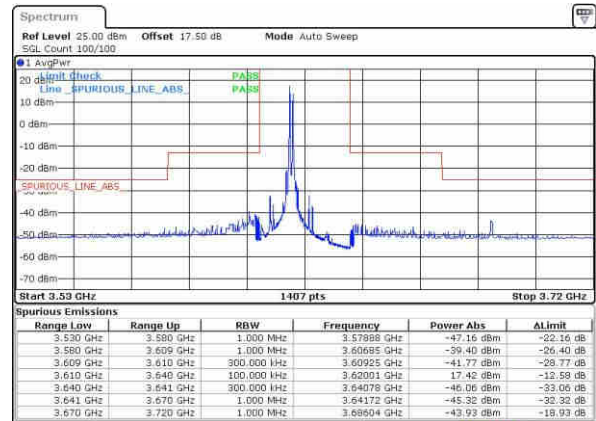
Date: 15 MAY 2019 02:37:25

Lowest Band Edge / 1RB49 and 1RB0



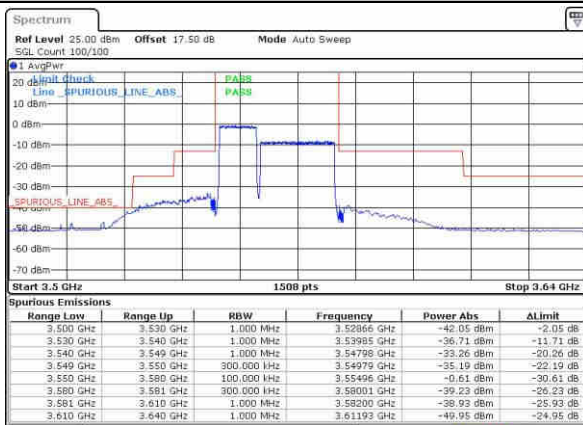
Date: 15 MAY 2019 02:02:00

Middle Band Edge / 1RB49 and 1RB0



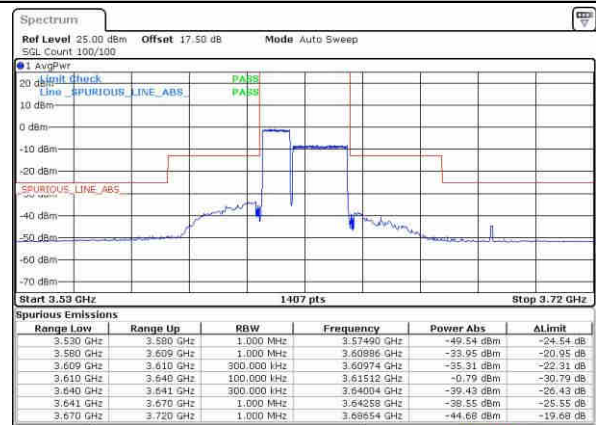
Date: 15 MAY 2019 02:39:07

Lowest Band Edge / Full RB



Date: 15 MAY 2019 01:51:46

Middle Band Edge / Full RB



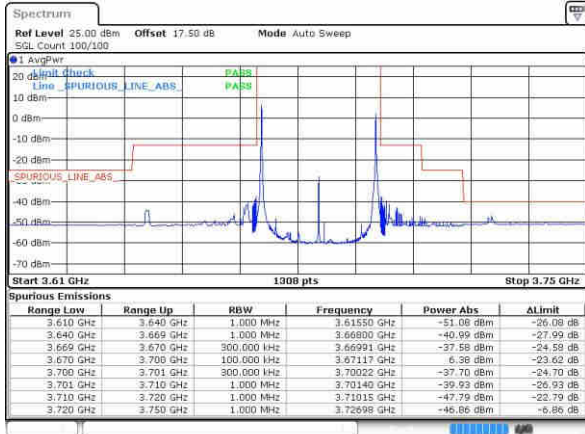
Date: 15 MAY 2019 02:28:53



LTE Band 48 / 10MHz+20MHz

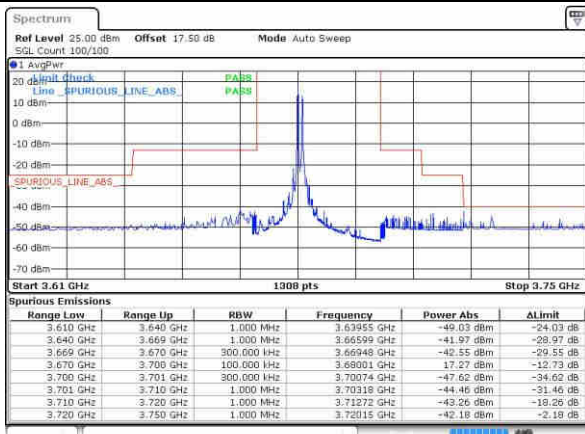
QPSK

Highest Band Edge / 1RB0 and 1RB99



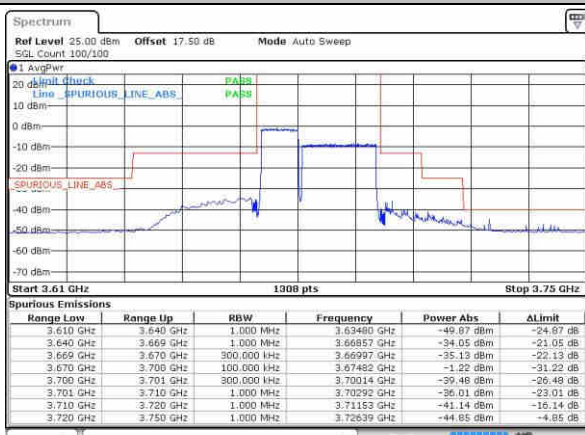
Date: 15 MAY 2019 03:09:23

Highest Band Edge / 1RB49 and 1RB0



Date: 15 MAY 2019 03:17:55

Highest Band Edge / Full RB



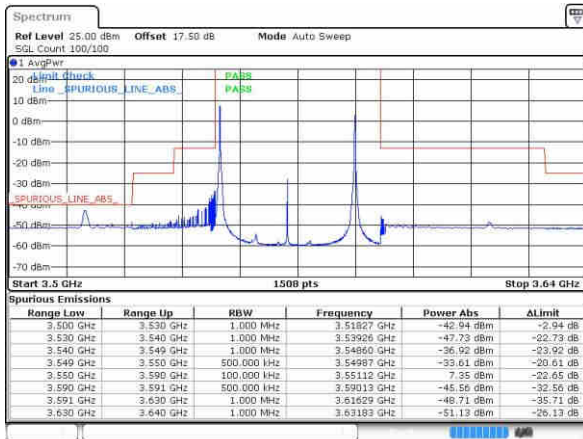
Date: 15 MAY 2019 03:07:40



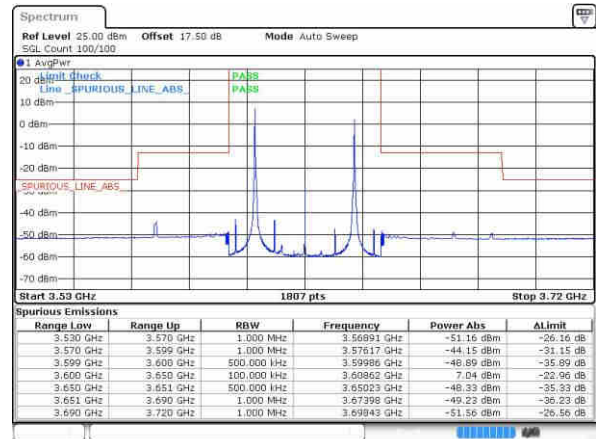
LTE Band 48 / 15MHz+20MHz

QPSK

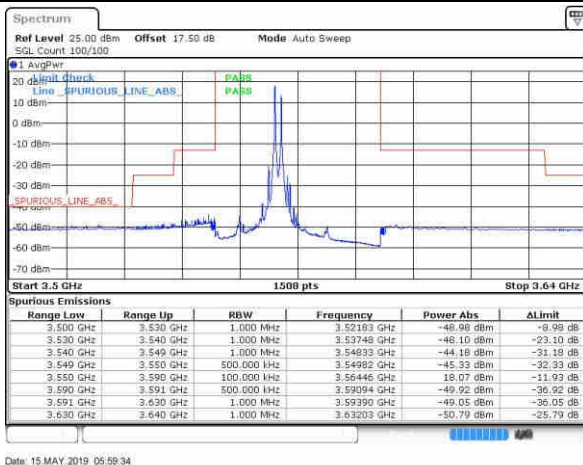
Lowest Band Edge / 1RB0 and 1RB99



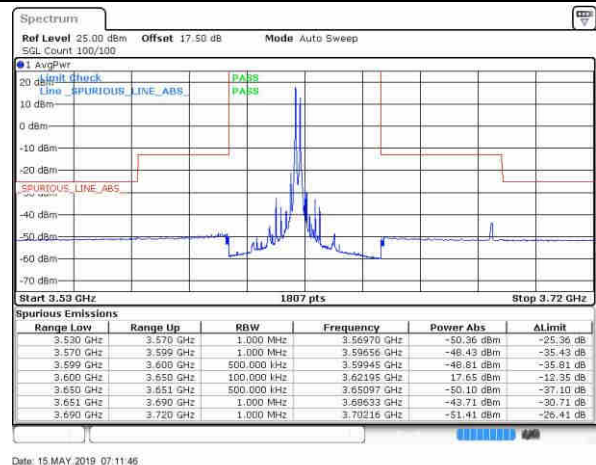
Middle Band Edge / 1RB0 and 1RB99



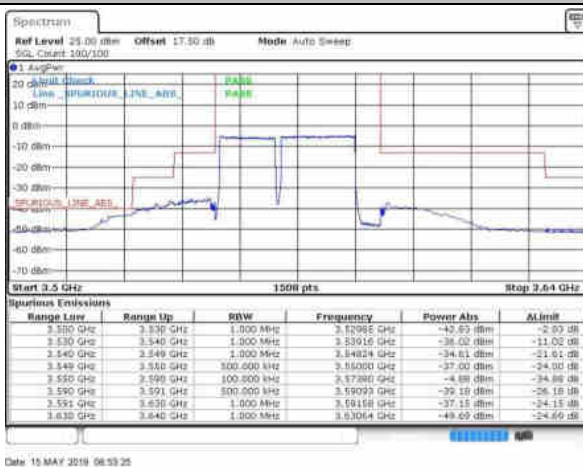
Lowest Band Edge / 1RB74 and 1RB0



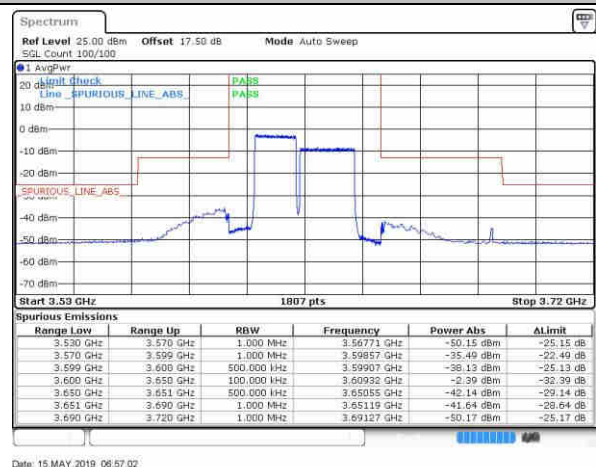
Middle Band Edge / 1RB74 and 1RB0

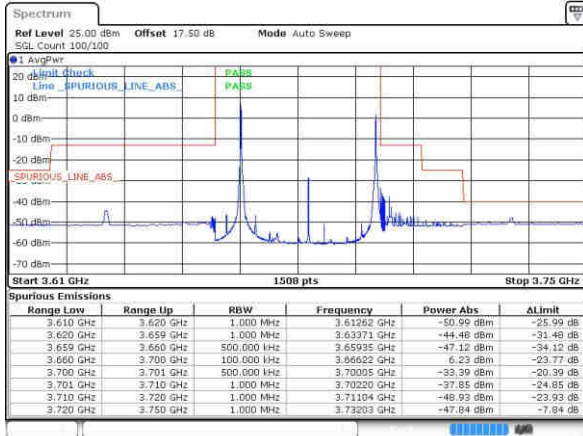


Lowest Band Edge / Full RB

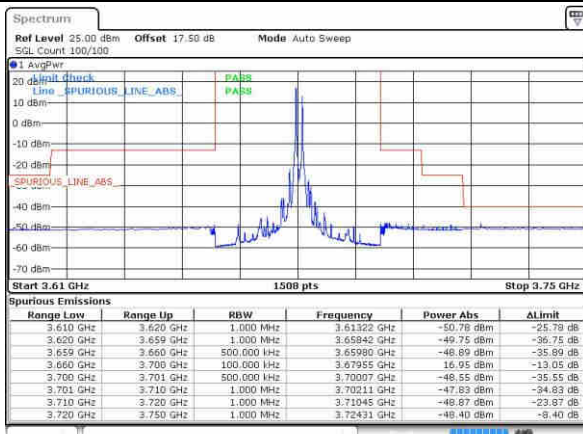


Middle Band Edge / Full RB

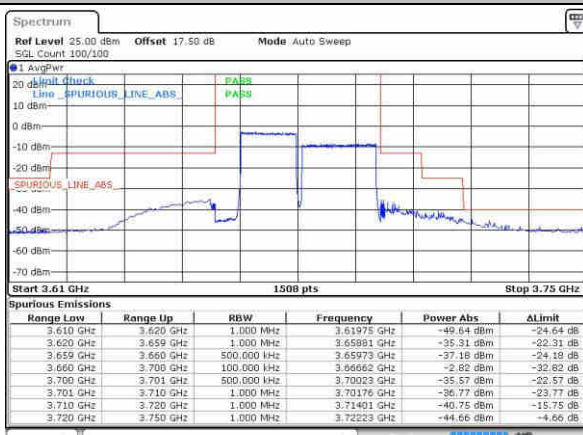


LTE Band 48 / 15MHz+20MHz
QPSK
Highest Band Edge / 1RB0 and 1RB99


Date: 15 MAY 2019 08:01:30

Highest Band Edge / 1RB74 and 1RB0


Date: 15 MAY 2019 08:13:46

Highest Band Edge / Full RB


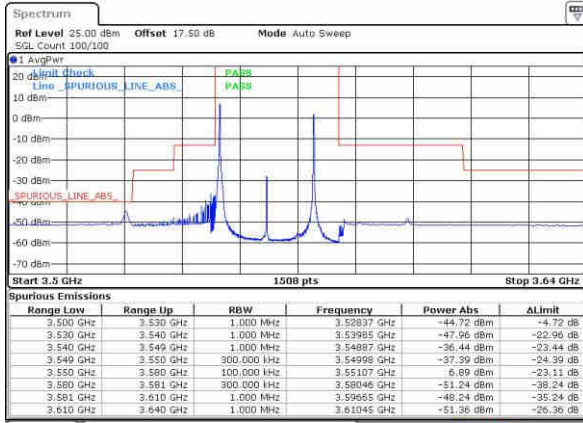
Date: 15 MAY 2019 07:59:02



LTE Band 48/ 20MHz+5MHz

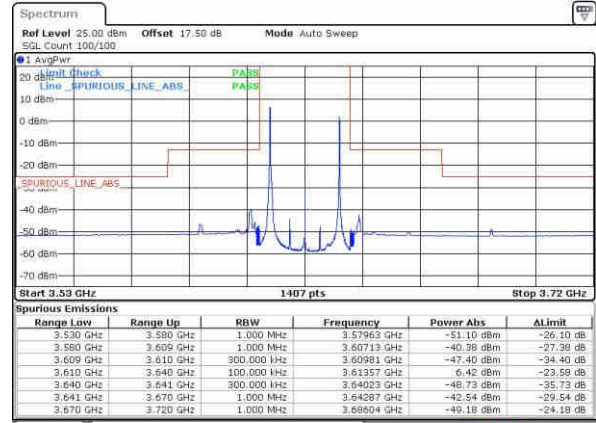
QPSK

Lowest Band Edge / 1RB0 and 1RB24



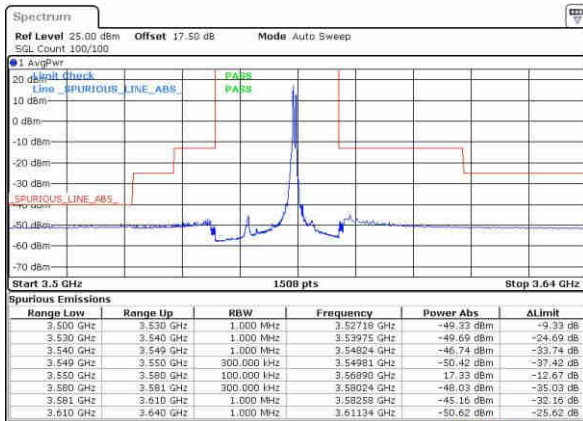
Date: 14 MAY 2019 21:41:48

Middle Band Edge / 1RB0 and 1RB24



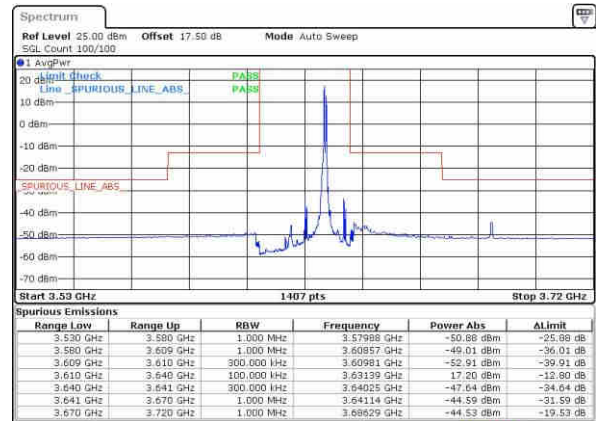
Date: 14 MAY 2019 19:05:57

Lowest Band Edge / 1RB99 and 1RB0



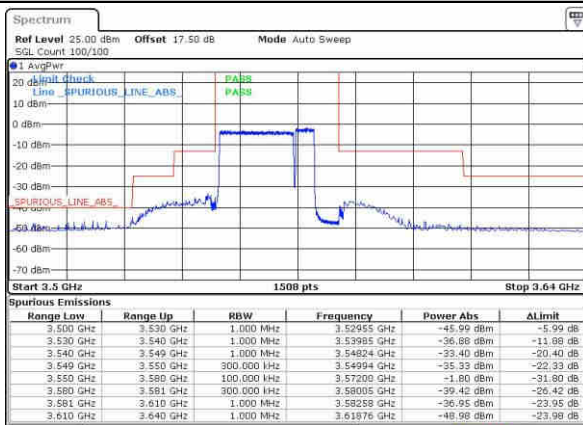
Date: 14 MAY 2019 21:43:30

Middle Band Edge / 1RB99 and 1RB0



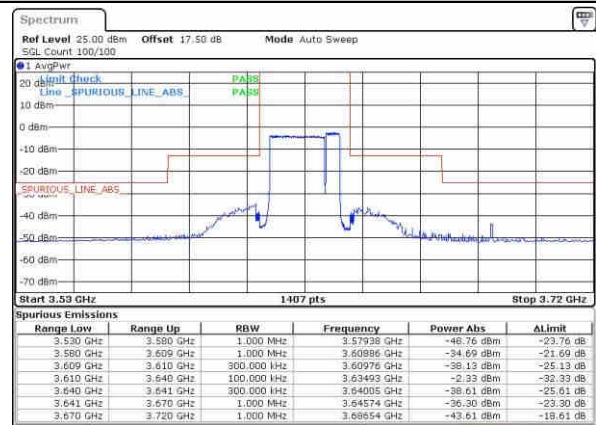
Date: 14 MAY 2019 19:10:38

Lowest Band Edge / Full RB



Date: 14 MAY 2019 21:33:15

Middle Band Edge / Full RB



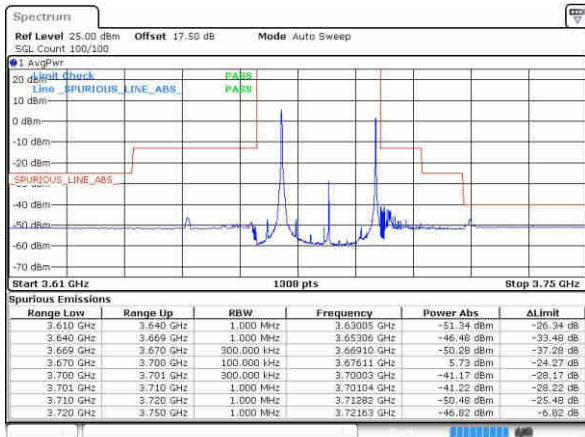
Date: 14 MAY 2019 19:00:22



LTE Band 48 / 20MHz+5MHz

QPSK

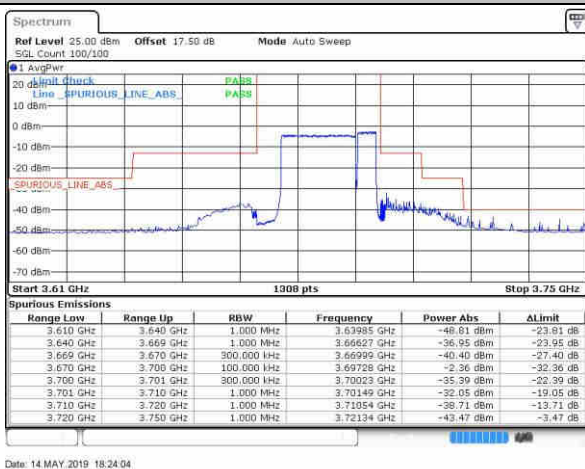
Highest Band Edge / 1RB0 and 1RB24

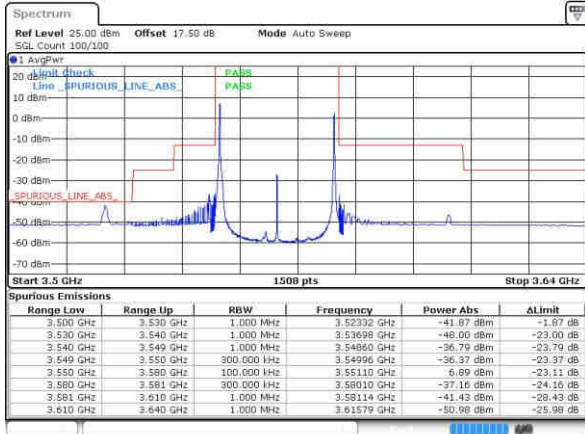


Highest Band Edge / 1RB99 and 1RB0

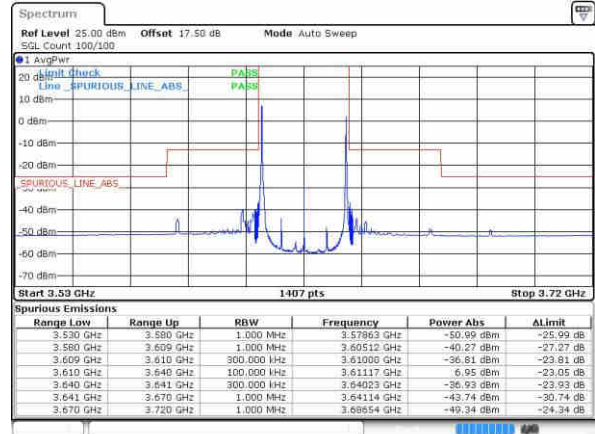


Highest Band Edge / Full RB

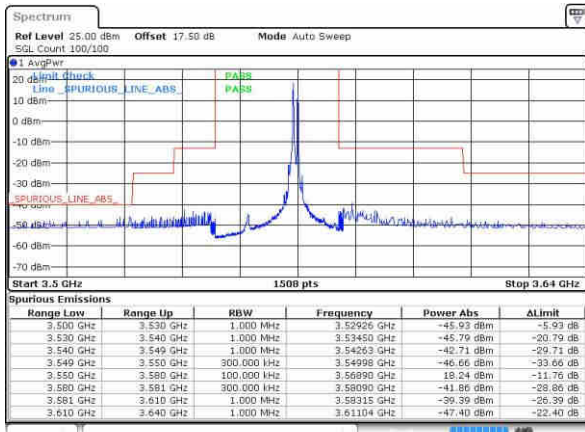


LTE Band 48 / 20MHz+10MHz
QPSK
Lowest Band Edge / 1RB0 and 1RB49


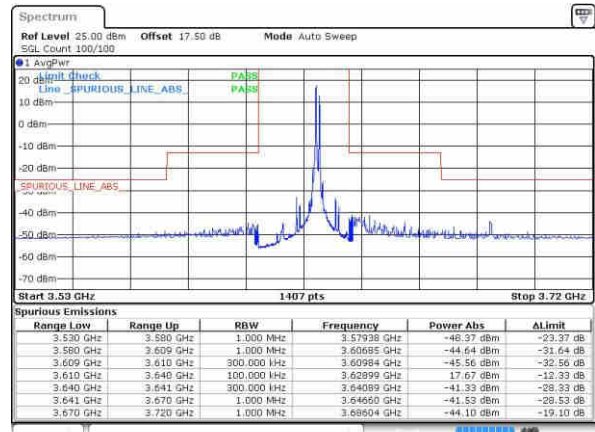
Date: 15 MAY 2019 03:58:48

Middle Band Edge / 1RB0 and 1RB49


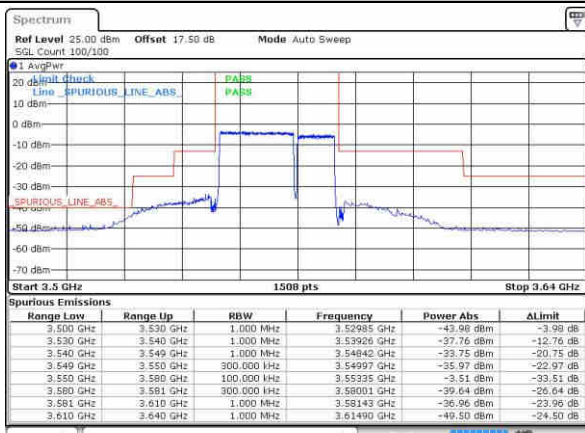
Date: 15 MAY 2019 04:43:23

Lowest Band Edge / 1RB99 and 1RB0


Date: 15 MAY 2019 04:00:29

Middle Band Edge / 1RB99 and 1RB0


Date: 15 MAY 2019 04:45:05

Lowest Band Edge / Full RB


Date: 15 MAY 2019 03:50:15

Middle Band Edge / Full RB

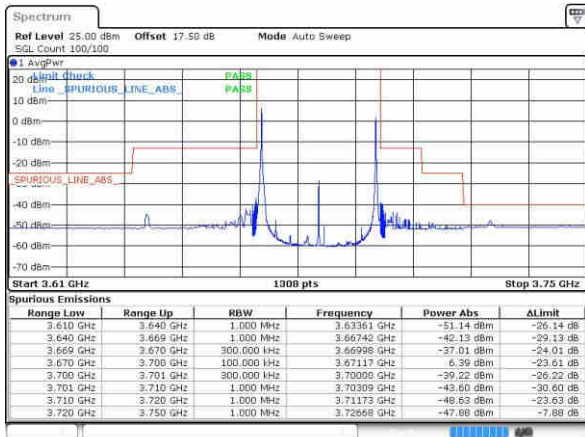

Date: 15 MAY 2019 04:34:50



LTE Band 48 / 20MHz+10MHz

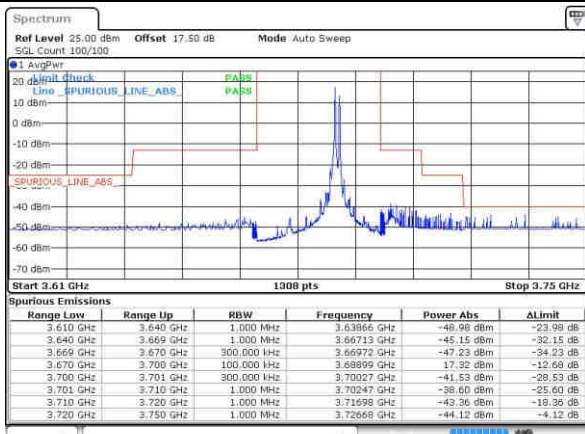
QPSK

Highest Band Edge / 1RB0 and 1RB49



Date: 15 MAY 2019 05:18:34

Highest Band Edge / 1RB99 and 1RB0



Date: 15 MAY 2019 05:27:06

Highest Band Edge / Full RB



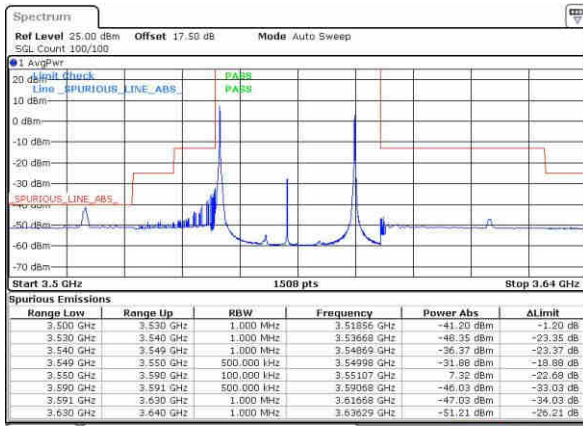
Date: 15 MAY 2019 05:16:51



LTE Band 48 / 20MHz+15MHz

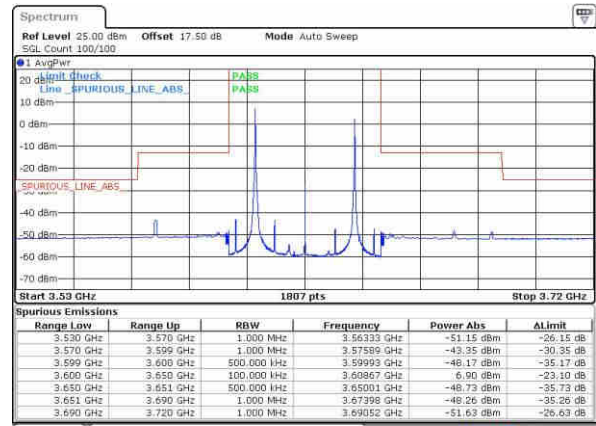
QPSK

Lowest Band Edge / 1RB0 and 1RB74



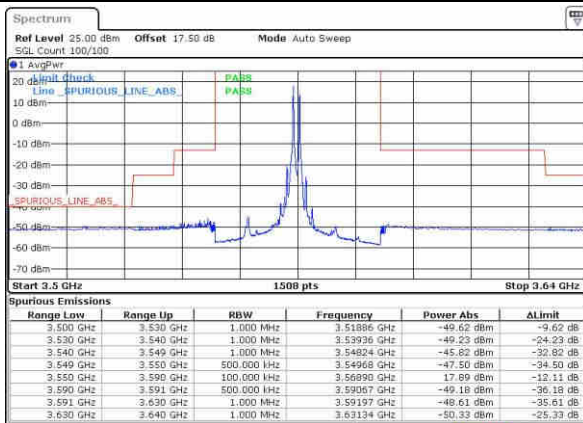
Date: 15 MAY 2019 15:59:21

Middle Band Edge / 1RB0 and 1RB74



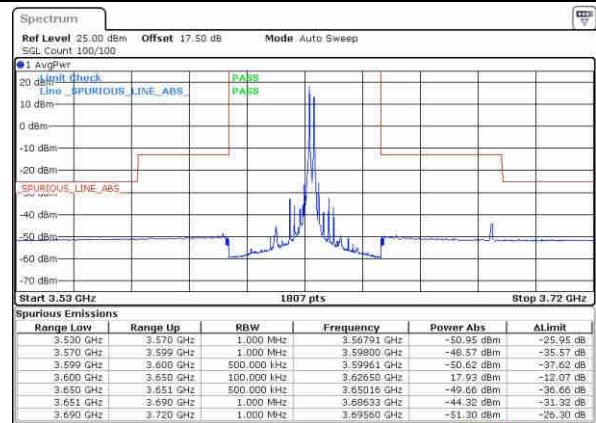
Date: 15 MAY 2019 17:33:45

Lowest Band Edge / 1RB99 and 1RB0



Date: 15 MAY 2019 18:01:33

Middle Band Edge / 1RB99 and 1RB0



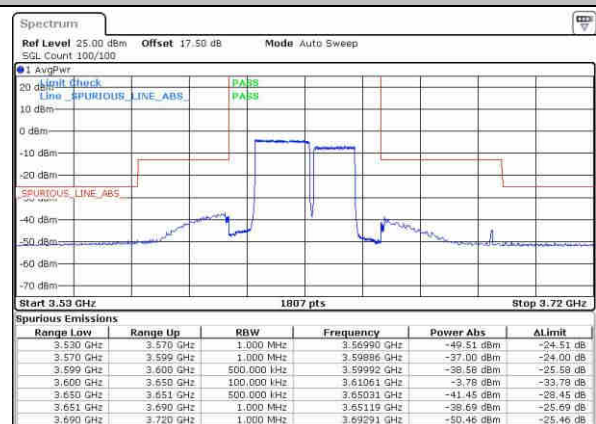
Date: 15 MAY 2019 17:35:56

Lowest Band Edge / Full RB



Date: 15 MAY 2019 18:57:20

Middle Band Edge / Full RB



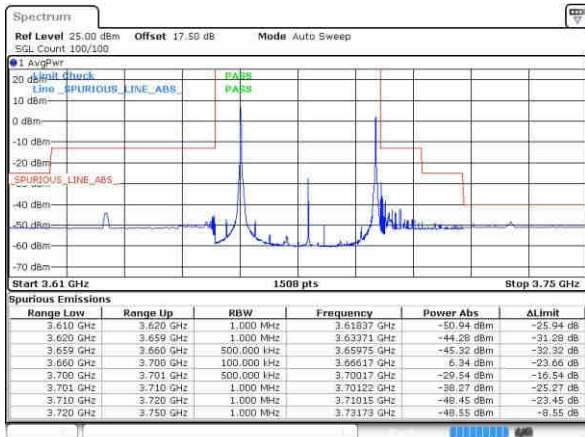
Date: 15 MAY 2019 17:22:45



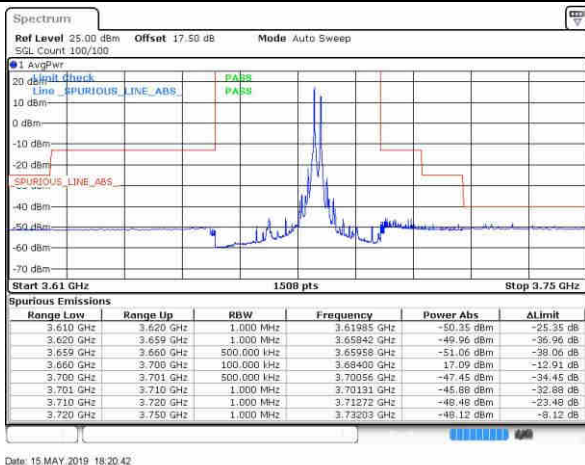
LTE Band 48 / 20MHz+15MHz

QPSK

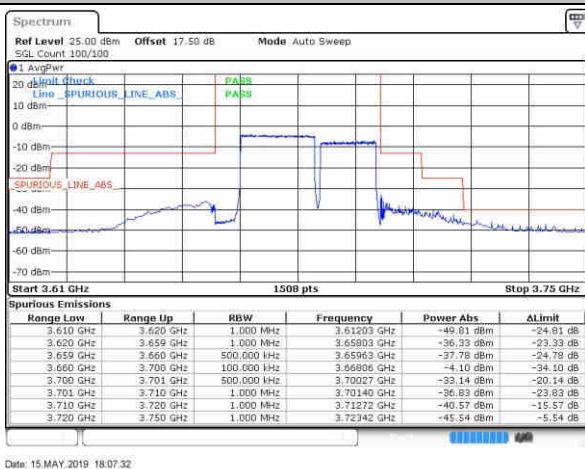
Highest Band Edge / 1RB0 and 1RB74



Highest Band Edge / 1RB99 and 1RB0



Highest Band Edge / Full RB

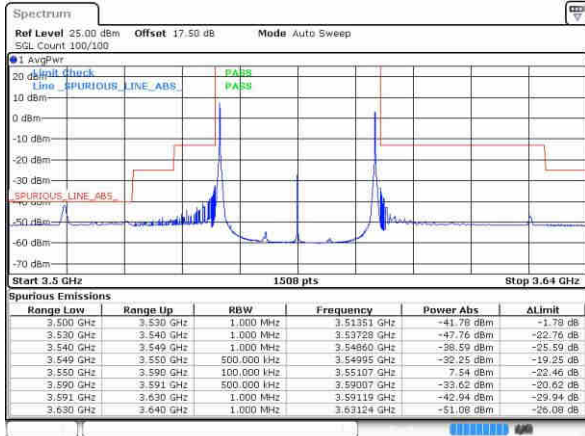




LTE Band 48 / 20MHz+20MHz

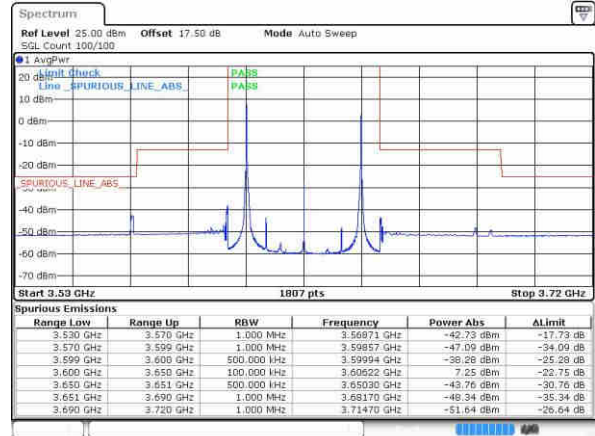
QPSK

Lowest Band Edge / 1RB0 and 1RB99



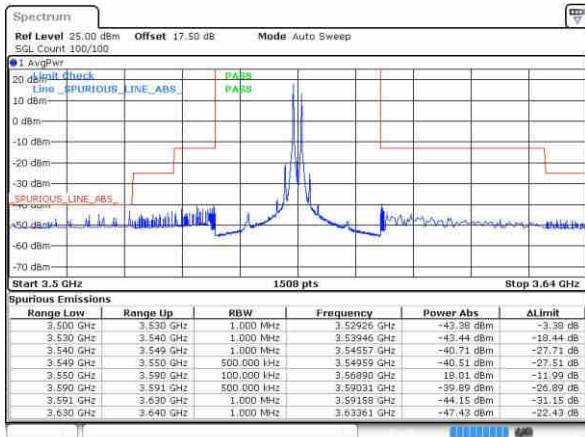
Date: 15 MAY 2019 18:02:13

Middle Band Edge / 1RB0 and 1RB99



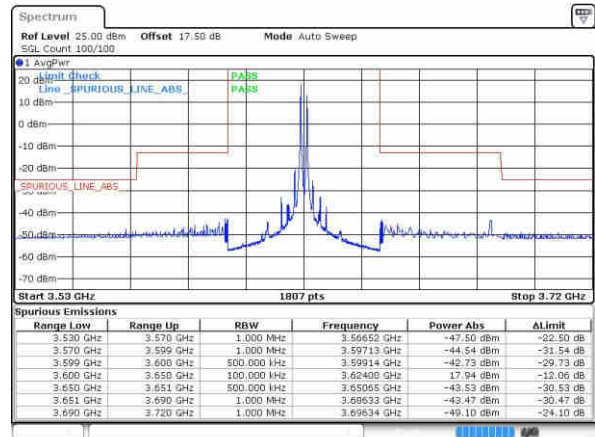
Date: 15 MAY 2019 20:15:26

Lowest Band Edge / 1RB99 and 1RB0



Date: 15 MAY 2019 18:04:25

Middle Band Edge / 1RB99 and 1RB0



Date: 15 MAY 2019 20:17:37

Lowest Band Edge / Full RB



Date: 14 MAY 2019 17:02:10

Middle Band Edge / Full RB



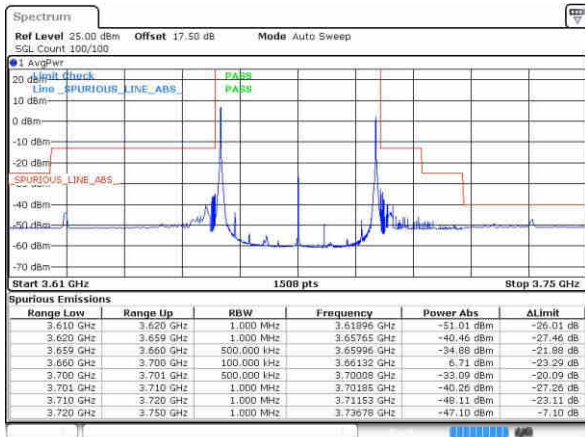
Date: 15 MAY 2019 20:04:23



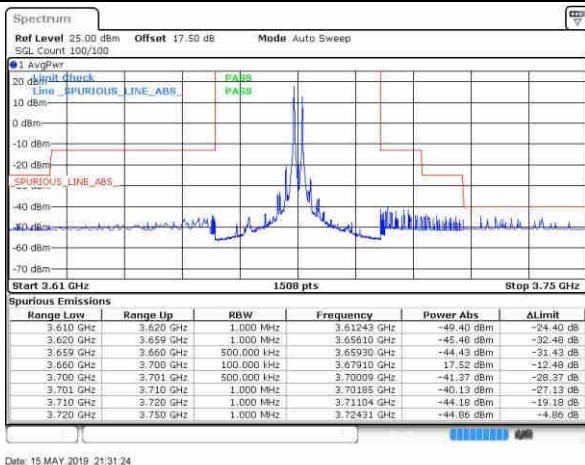
LTE Band 48 / 20MHz+20MHz

QPSK

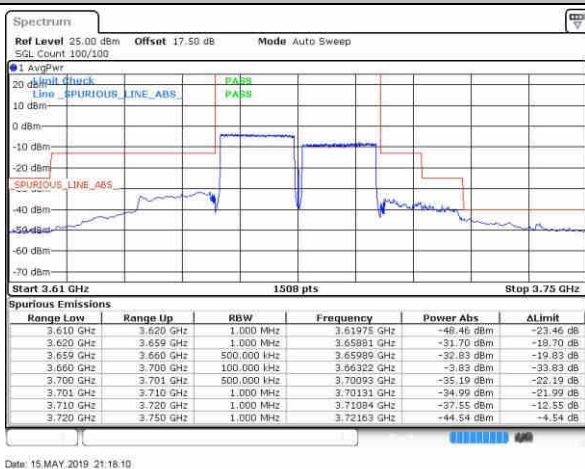
Highest Band Edge / 1RB0 and 1RB99



Highest Band Edge / 1RB99 and 1RB0



Highest Band Edge / Full RB



Lowest Band Edge / Full RB (worst, at least 30dB)

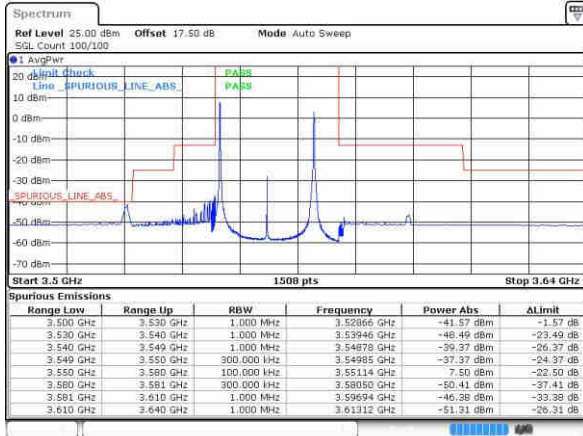




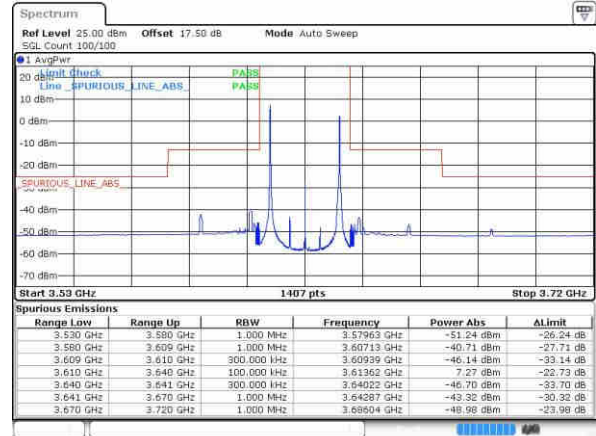
LTE Band 48 / 5MHz+20MHz

16QAM

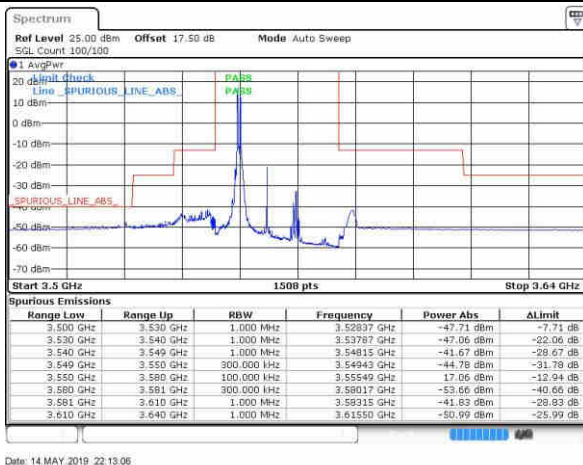
Lowest Band Edge / 1RB0 and 1RB99



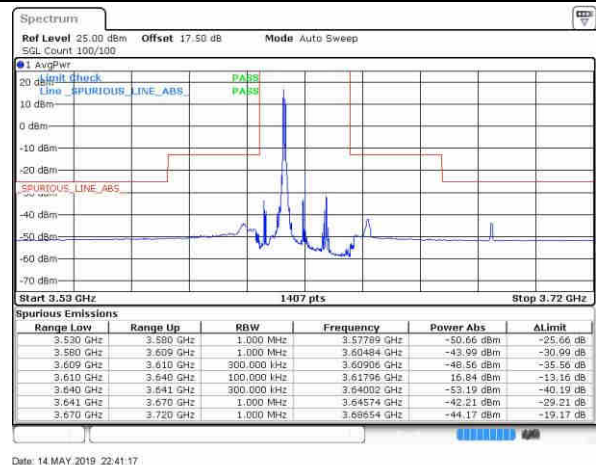
Middle Band Edge / 1RB0 and 1RB99



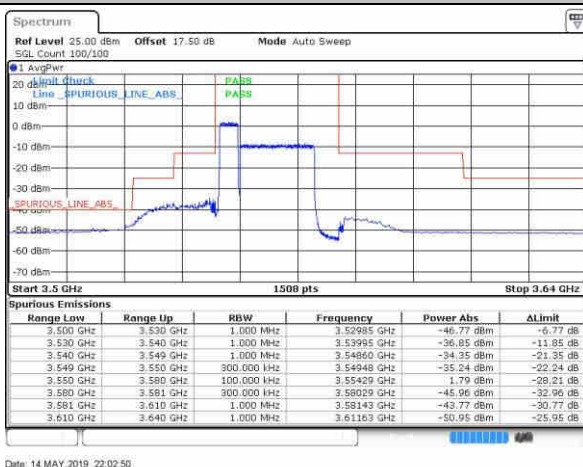
Lowest Band Edge / 1RB24 and 1RB0



Middle Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB



Middle Band Edge / Full RB

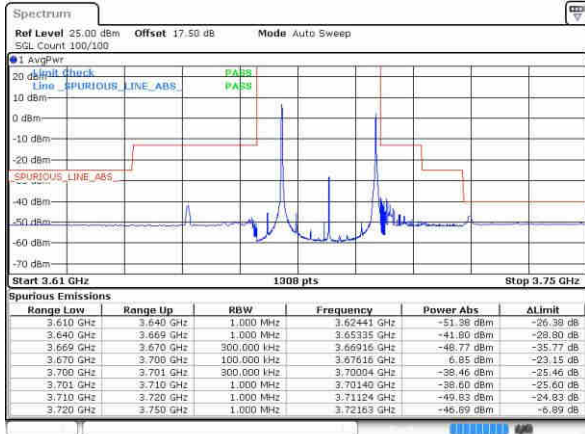




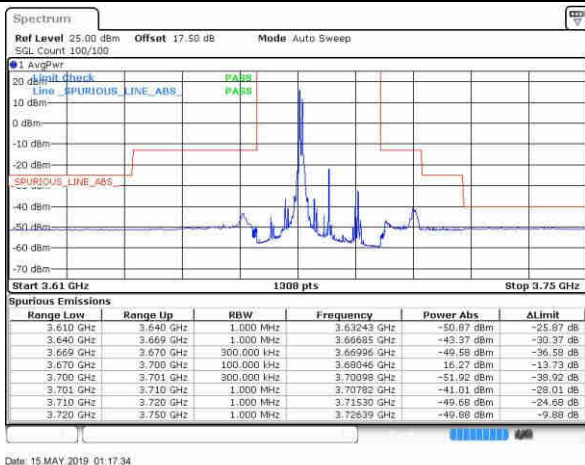
LTE Band 48 / 5MHz+20MHz

16QAM

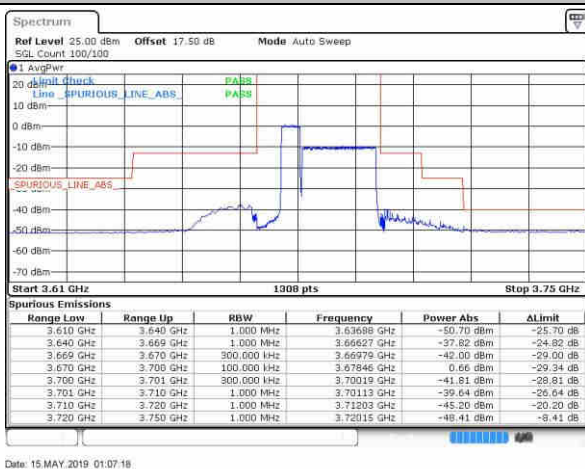
Highest Band Edge / 1RB0 and 1RB99



Highest Band Edge / 1RB24 and 1RB0



Highest Band Edge / Full RB

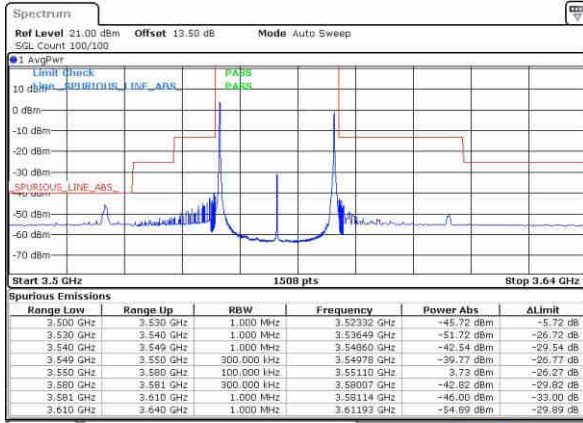




LTE Band 48 / 10MHz+20MHz

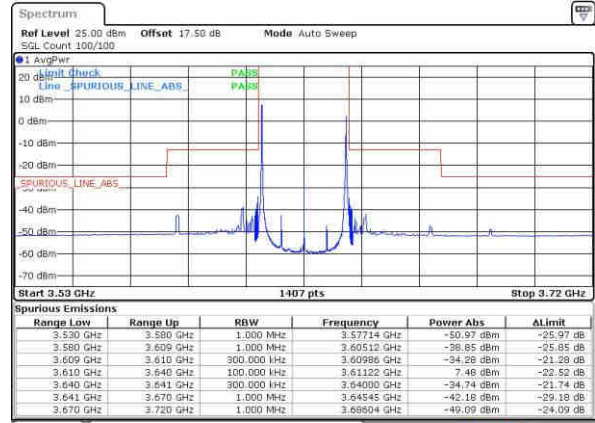
16QAM

Lowest Band Edge / 1RB0 and 1RB99



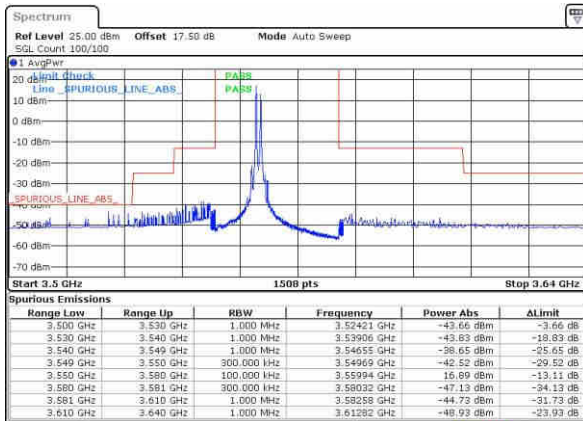
Date: 15 MAY 2019 02:22:04

Middle Band Edge / 1RB0 and 1RB99



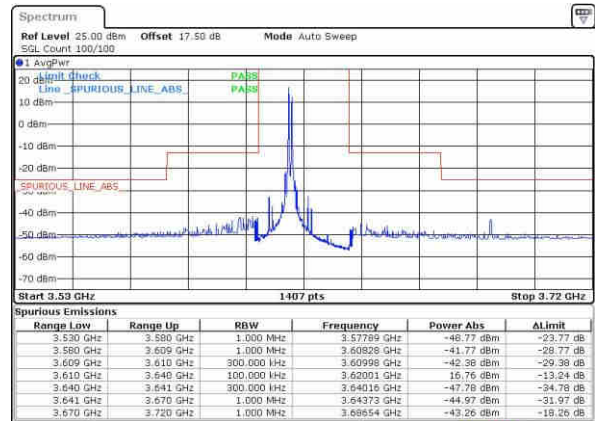
Date: 15 MAY 2019 02:35:43

Lowest Band Edge / 1RB49 and 1RB0



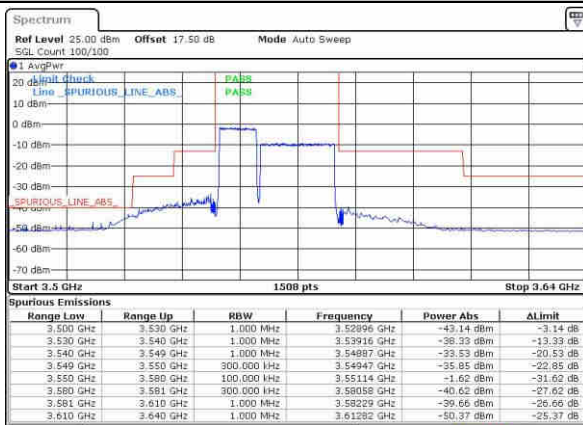
Date: 15 MAY 2019 02:03:43

Middle Band Edge / 1RB49 and 1RB0



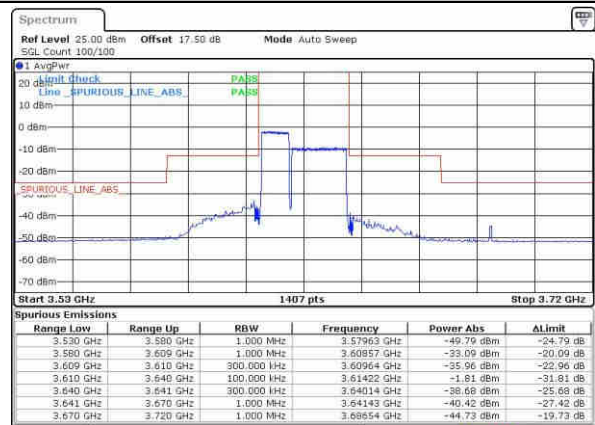
Date: 15 MAY 2019 02:40:49

Lowest Band Edge / Full RB



Date: 15 MAY 2019 01:53:29

Middle Band Edge / Full RB



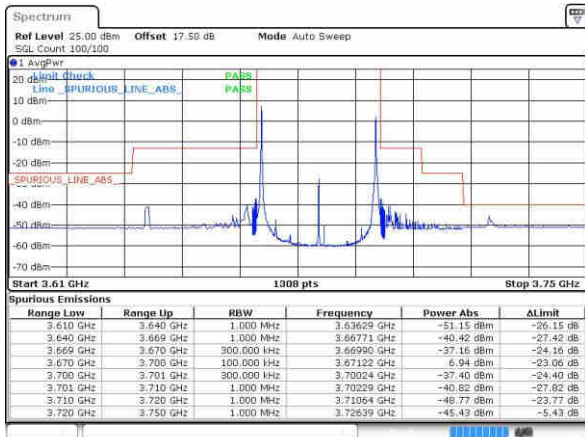
Date: 15 MAY 2019 02:30:35



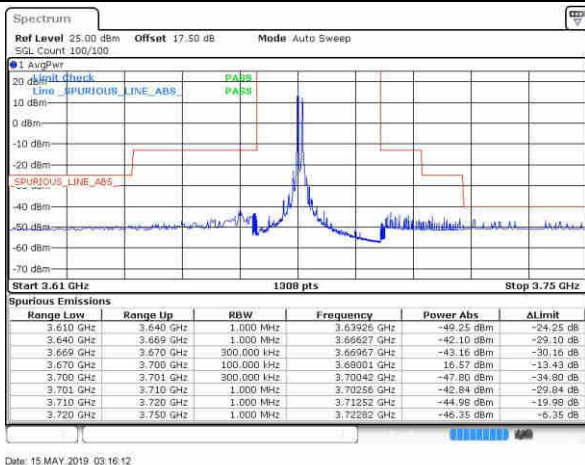
LTE Band 48 / 10MHz+20MHz

16QAM

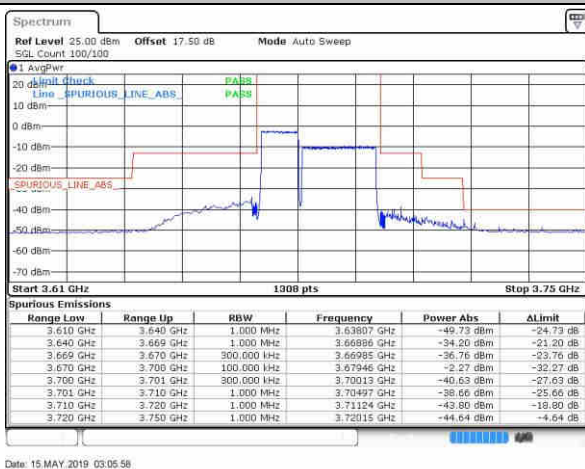
Highest Band Edge / 1RB0 and 1RB99



Highest Band Edge / 1RB49 and 1RB0



Highest Band Edge / Full RB

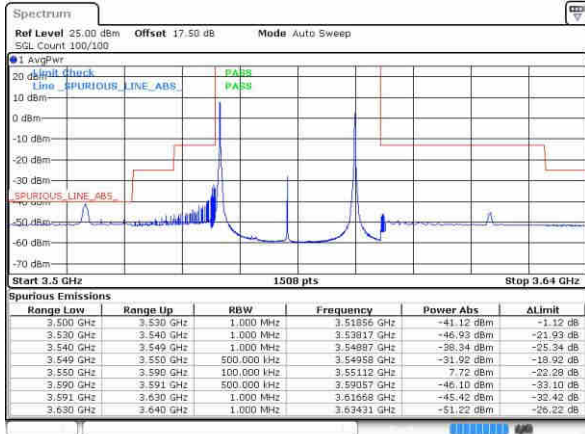




LTE Band 48 / 15MHz+20MHz

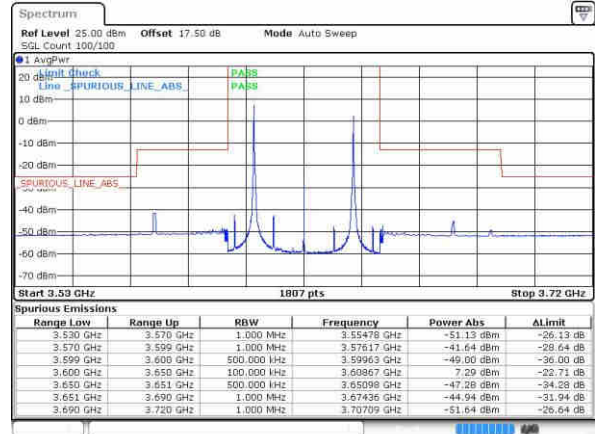
16QAM

Lowest Band Edge / 1RB0 and 1RB99



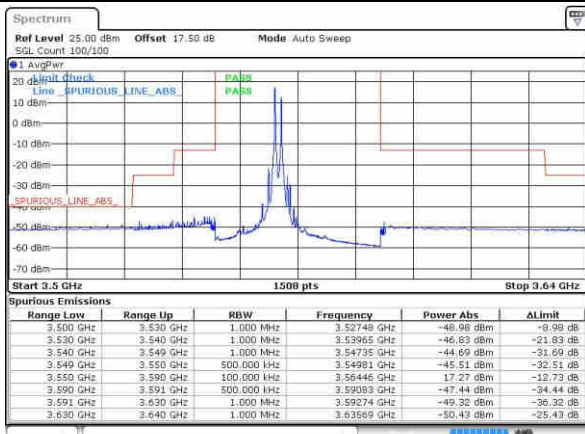
Date: 15 MAY 2019 06:26:36

Middle Band Edge / 1RB0 and 1RB99



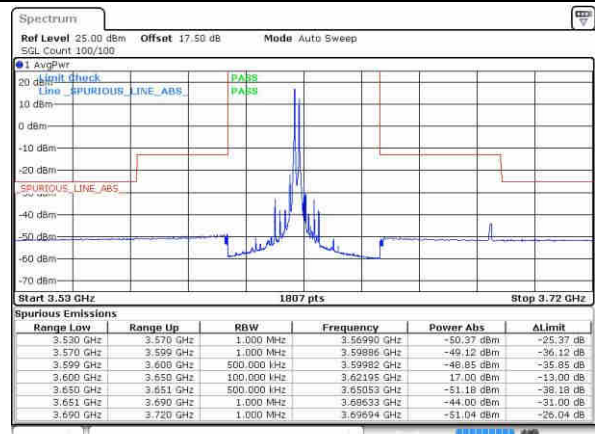
Date: 15 MAY 2019 07:06:52

Lowest Band Edge / 1RB74 and 1RB0



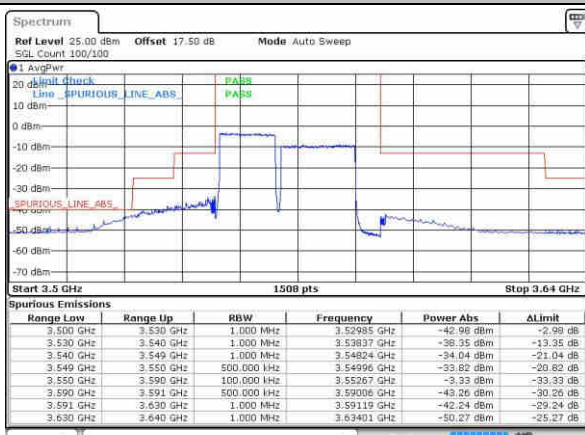
Date: 15 MAY 2019 06:01:47

Middle Band Edge / 1RB74 and 1RB0



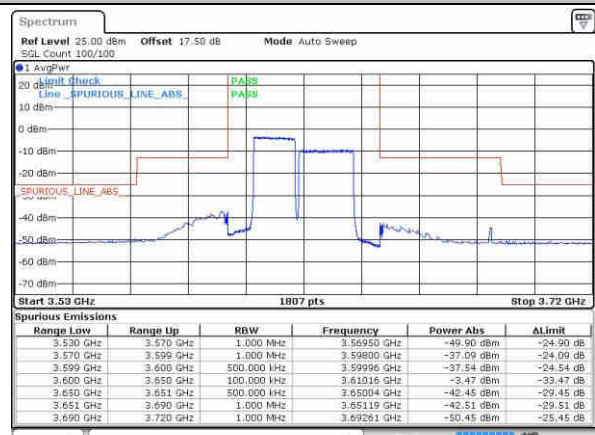
Date: 15 MAY 2019 07:14:14

Lowest Band Edge / Full RB



Date: 15 MAY 2019 05:48:32

Middle Band Edge / Full RB



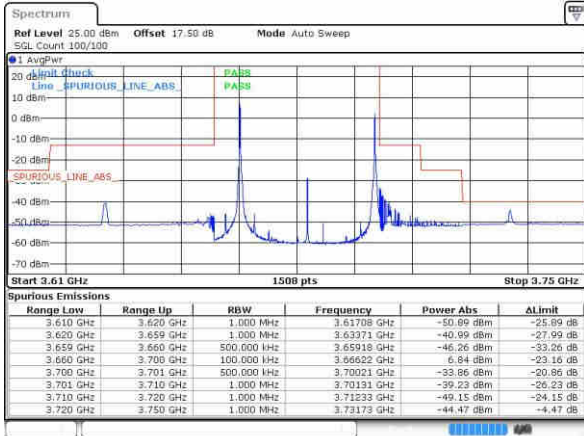
Date: 15 MAY 2019 06:59:29



LTE Band 48 / 15MHz+20MHz

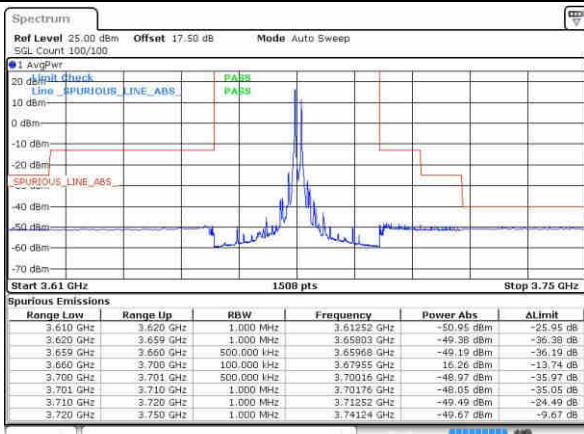
16QAM

Highest Band Edge / 1RB0 and 1RB99



Date: 15 MAY 2019 08:03:57

Highest Band Edge / 1RB74 and 1RB0



Date: 15 MAY 2019 08:11:19

Highest Band Edge / Full RB



Date: 15 MAY 2019 07:56:35