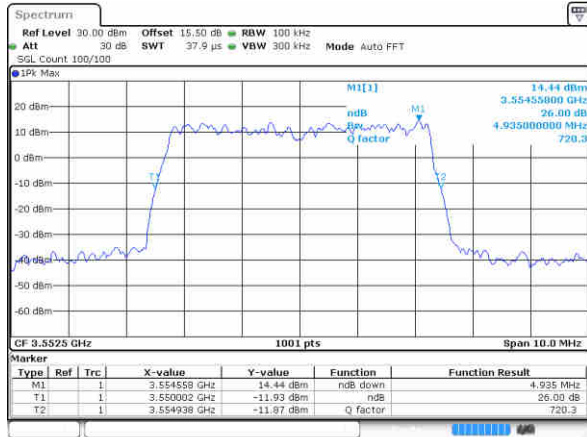


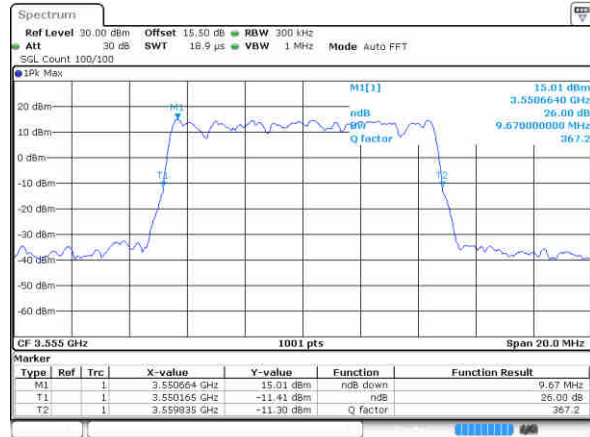


## LTE Band 48

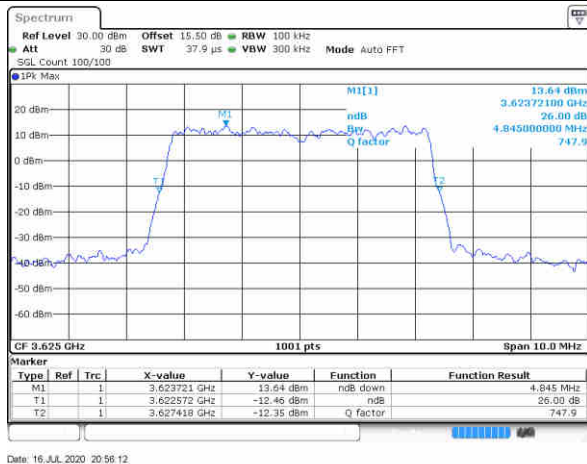
## Lowest Channel / 5MHz / 64QAM



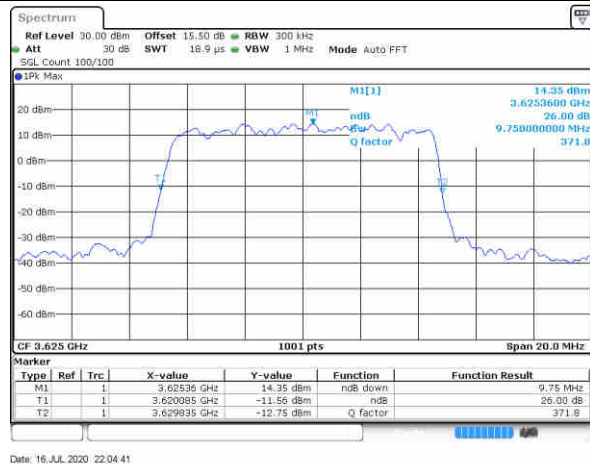
## Lowest Channel / 10MHz / 64QAM



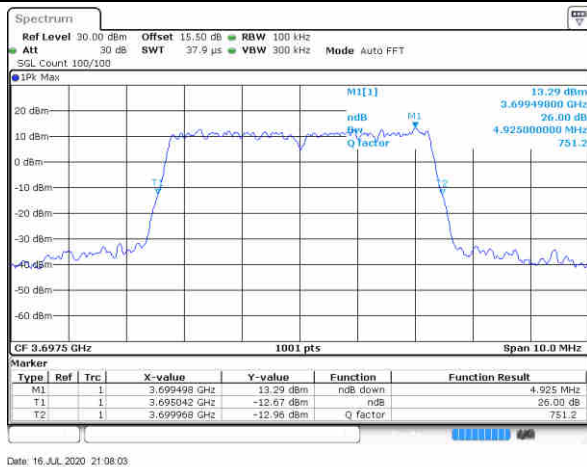
## Middle Channel / 5MHz / 64QAM



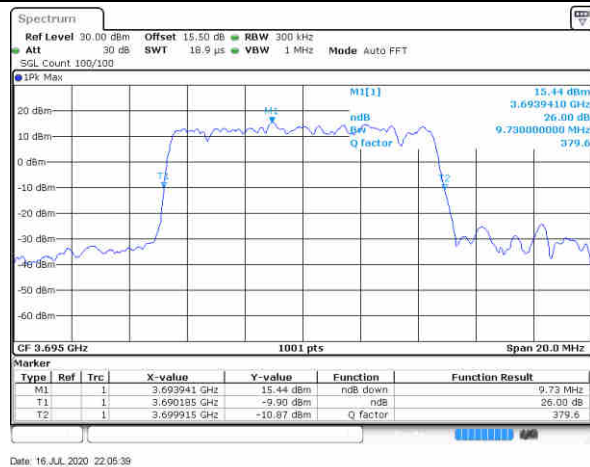
## Middle Channel / 10MHz / 64QAM



## Highest Channel / 5MHz / 64QAM



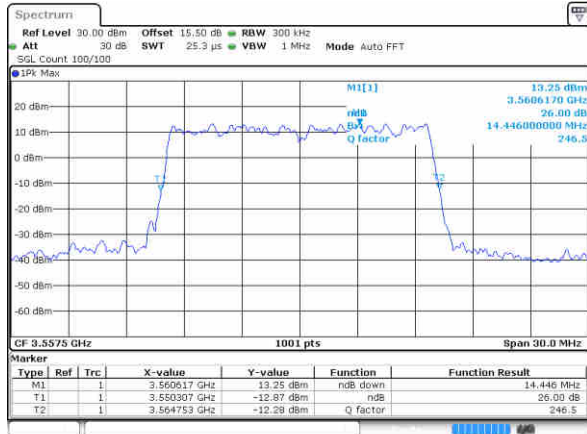
## Highest Channel / 10MHz / 64QAM



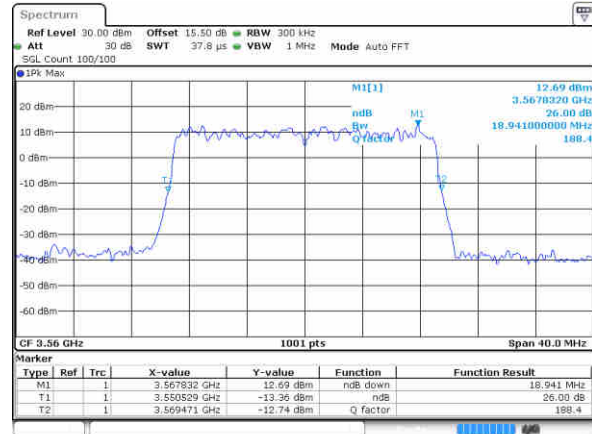


## LTE Band 48

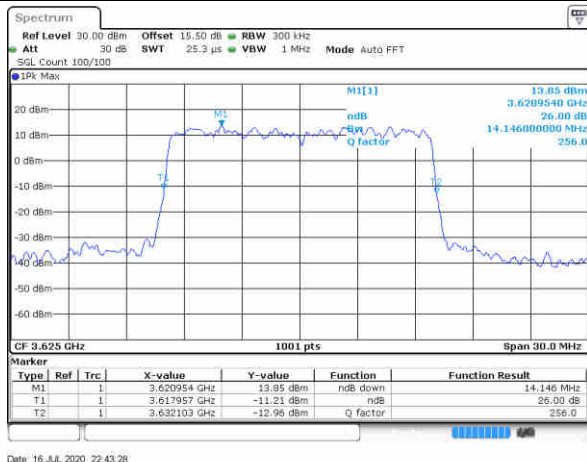
## Lowest Channel / 15MHz / 64QAM



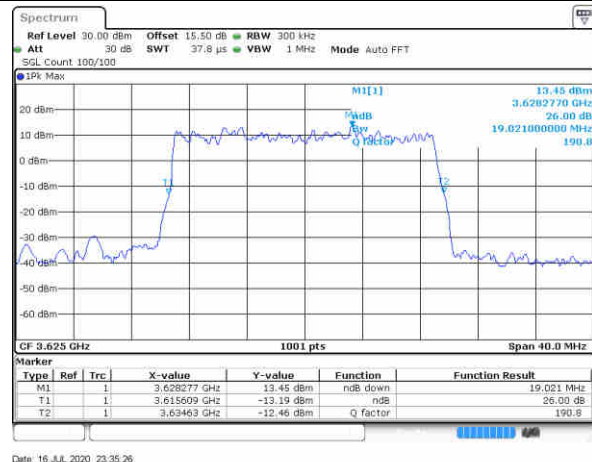
## Lowest Channel / 20MHz / 64QAM



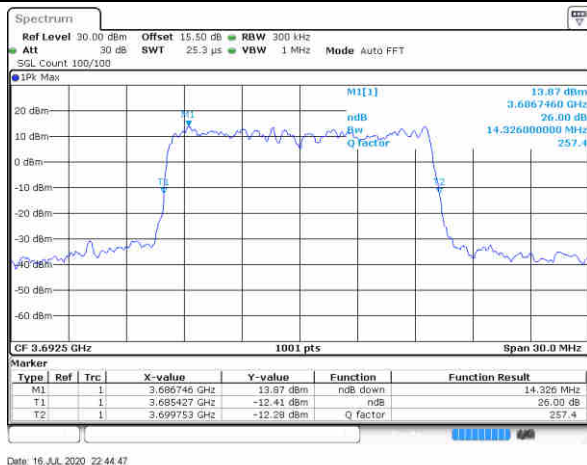
## Middle Channel / 15MHz / 64QAM



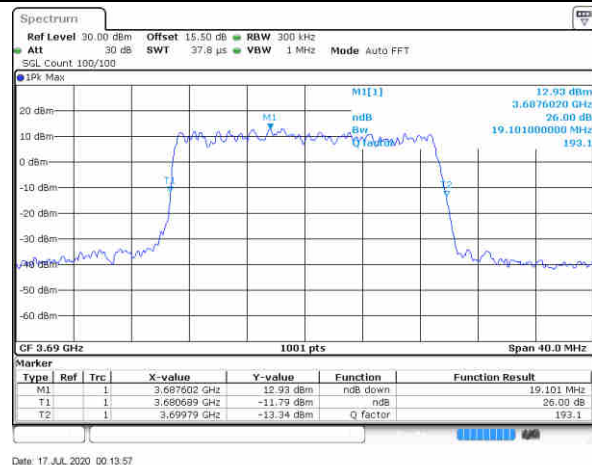
## Middle Channel / 20MHz / 64QAM



## Highest Channel / 15MHz / 64QAM



## Highest Channel / 20MHz / 64QAM



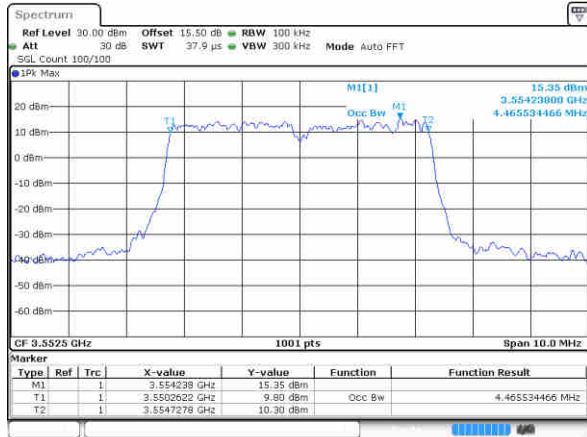
**Occupied Bandwidth**

| Mode       | LTE Band 48 : 99%OBW(MHz) |       |       |       |       |       |       |       |
|------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 5MHz                      |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 4.47                      | 4.48  | 9.05  | 9.05  | 13.52 | 13.43 | 17.86 | 17.86 |
| Middle CH  | 4.50                      | 4.49  | 9.05  | 9.03  | 13.43 | 13.43 | 17.86 | 17.90 |
| Highest CH | 4.50                      | 4.50  | 9.09  | 8.99  | 13.49 | 13.46 | 17.86 | 17.82 |
| Mode       | LTE Band 48 : 99%OBW(MHz) |       |       |       |       |       |       |       |
| BW         | 5MHz                      |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | 4.49                      |       | 9.03  |       | 13.46 |       | 17.90 |       |
| Middle CH  | 4.47                      |       | 9.07  |       | 13.52 |       | 17.86 |       |
| Highest CH | 4.52                      |       | 9.05  |       | 13.49 |       | 17.90 |       |

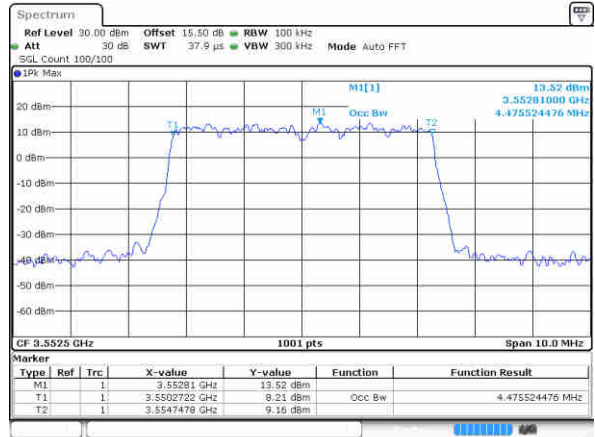


## LTE Band 48

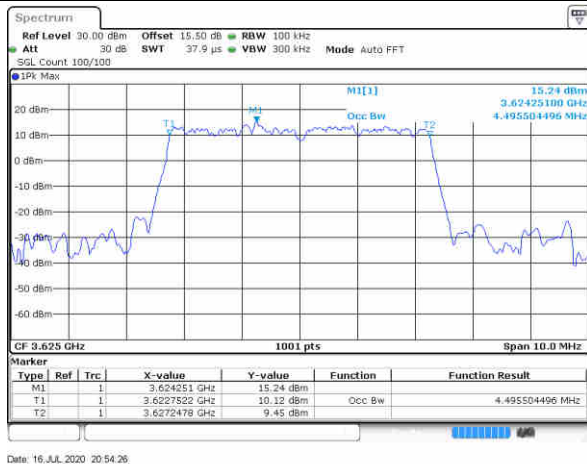
## Lowest Channel / 5MHz / QPSK



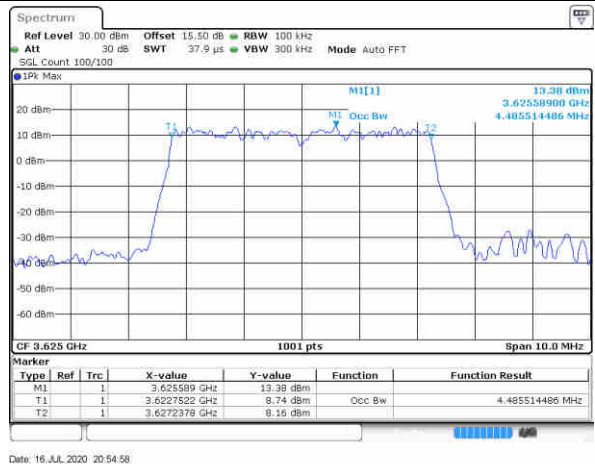
## Lowest Channel / 5MHz / 16QAM



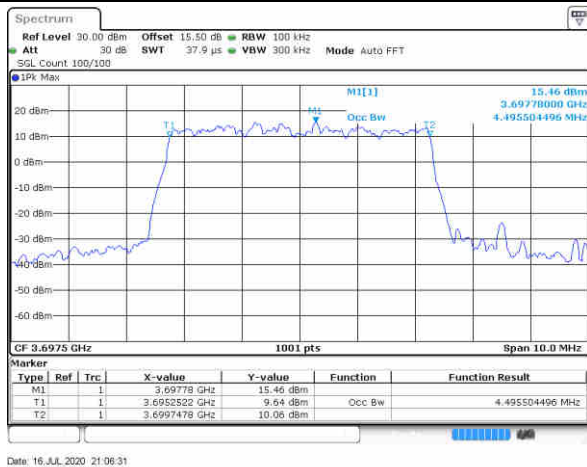
## Middle Channel / 5MHz / QPSK



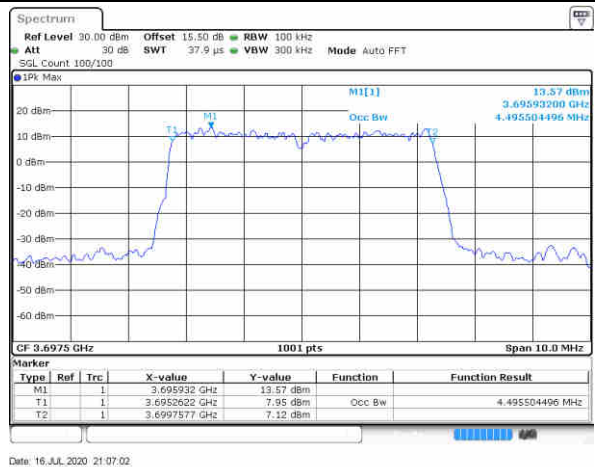
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



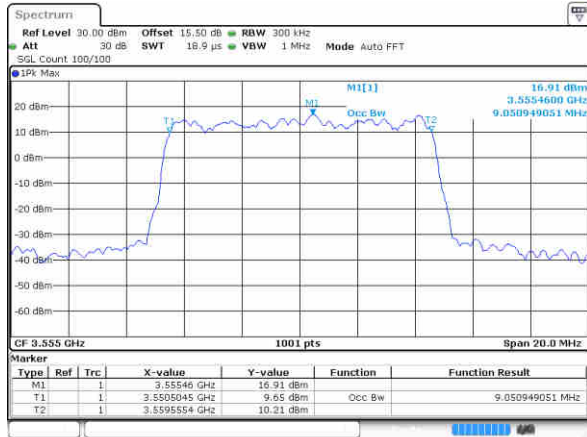
## Highest Channel / 5MHz / 16QAM



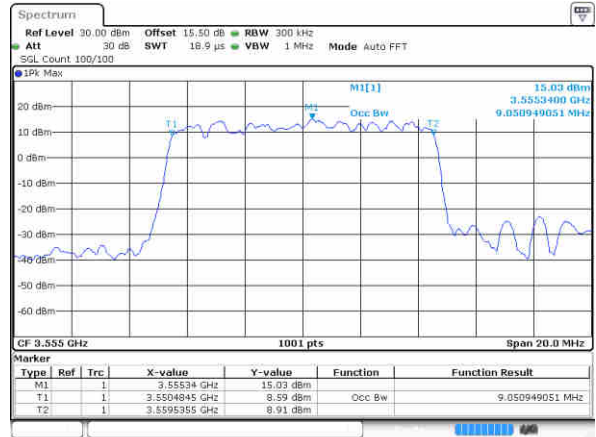


## LTE Band 48

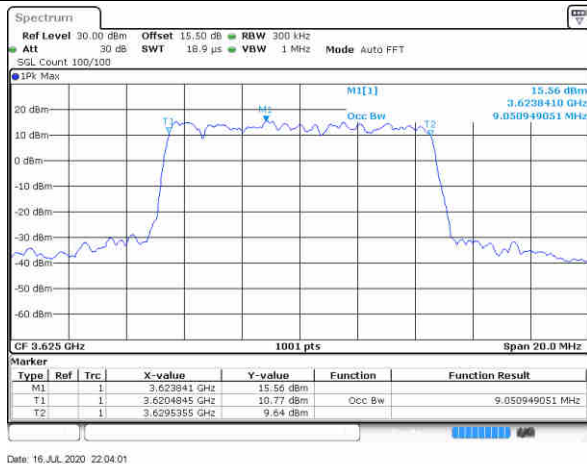
## Lowest Channel / 10MHz / QPSK



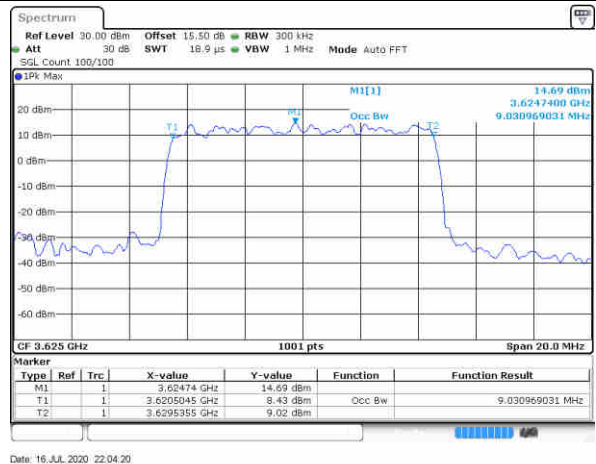
## Lowest Channel / 10MHz / 16QAM



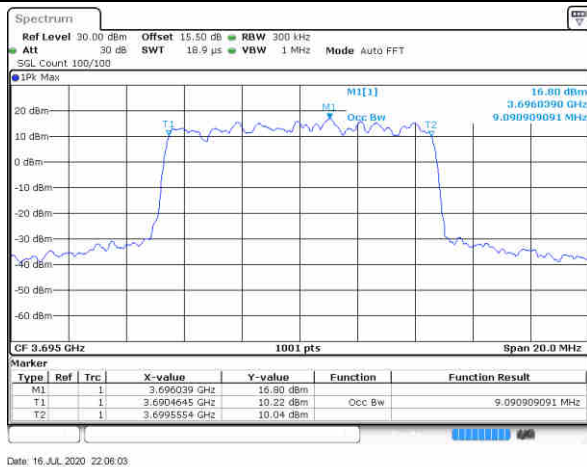
## Middle Channel / 10MHz / QPSK



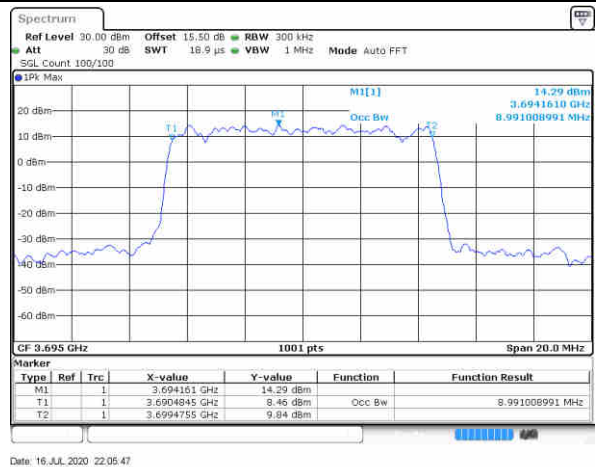
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



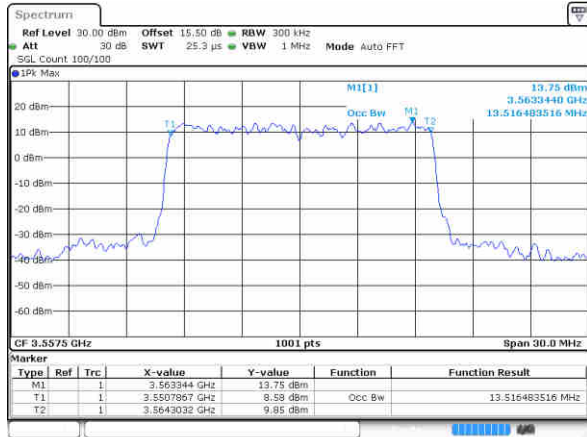
## Highest Channel / 10MHz / 16QAM



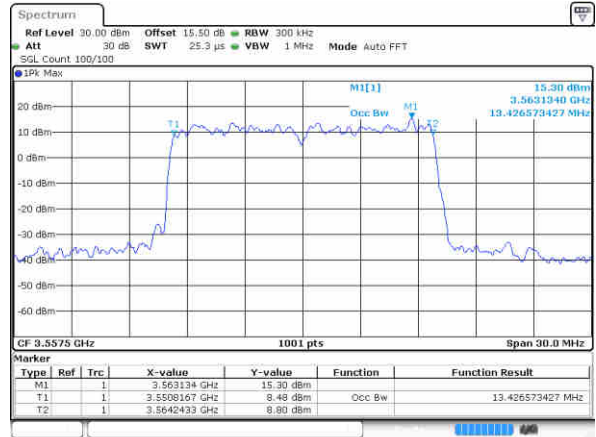


## LTE Band 48

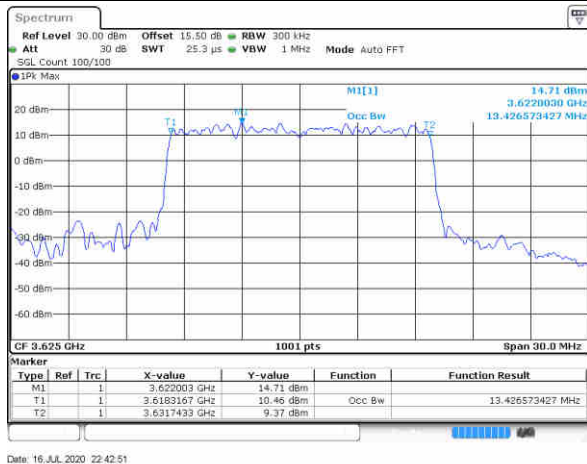
## Lowest Channel / 15MHz / QPSK



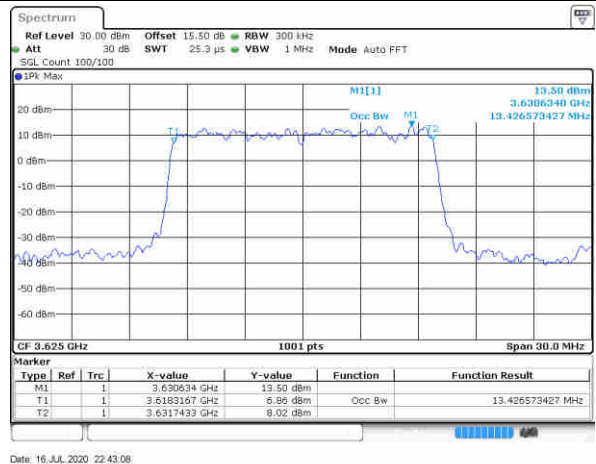
## Lowest Channel / 15MHz / 16QAM



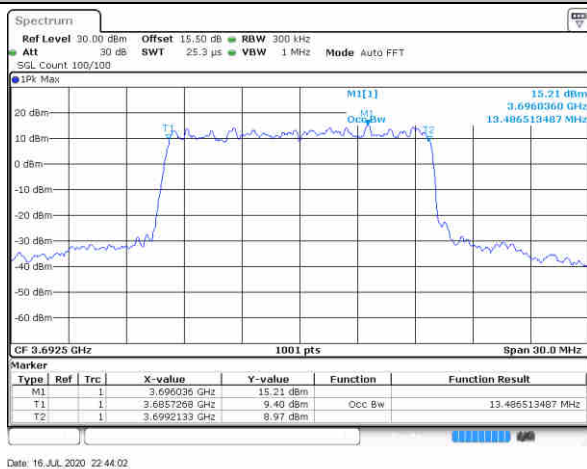
## Middle Channel / 15MHz / QPSK



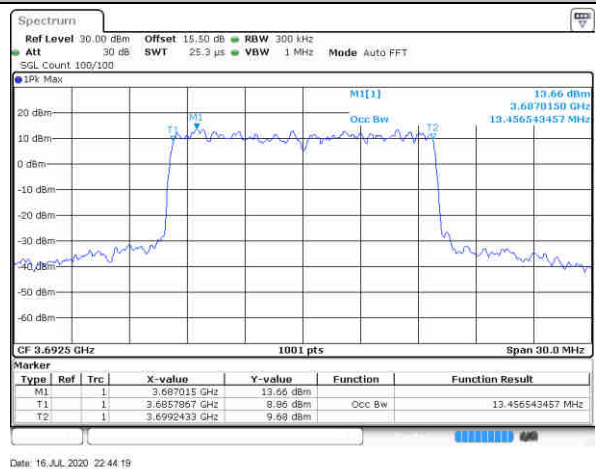
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



## Highest Channel / 15MHz / 16QAM

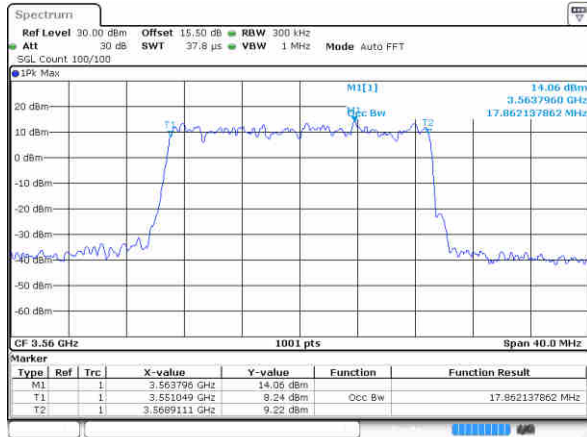






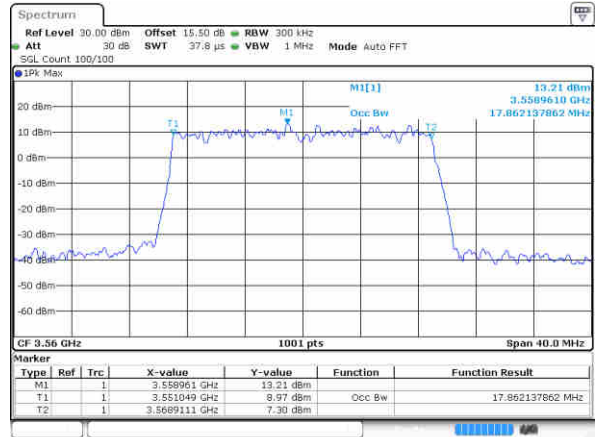
## LTE Band 48

## Lowest Channel / 20MHz / QPSK



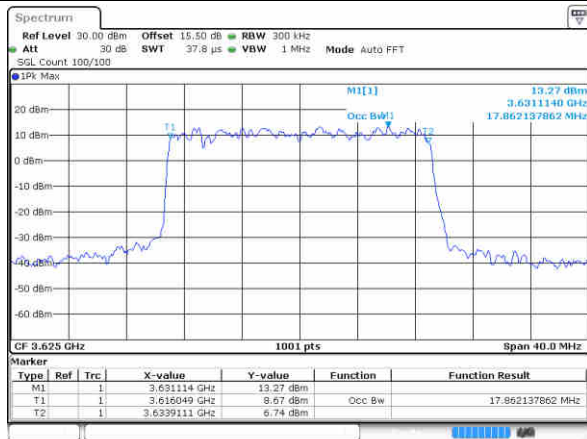
Date: 16 JUL 2020 23:00:21

## Lowest Channel / 20MHz / 16QAM



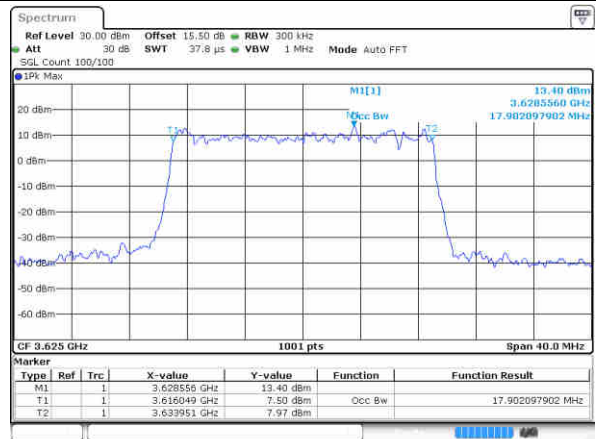
Date: 16 JUL 2020 23:00:39

## Middle Channel / 20MHz / QPSK



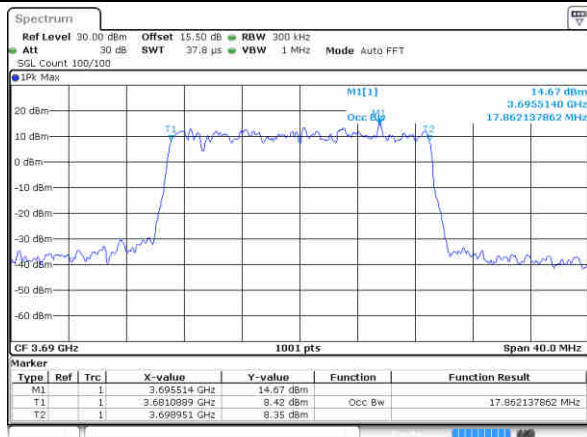
Date: 16 JUL 2020 23:36:07

## Middle Channel / 20MHz / 16QAM



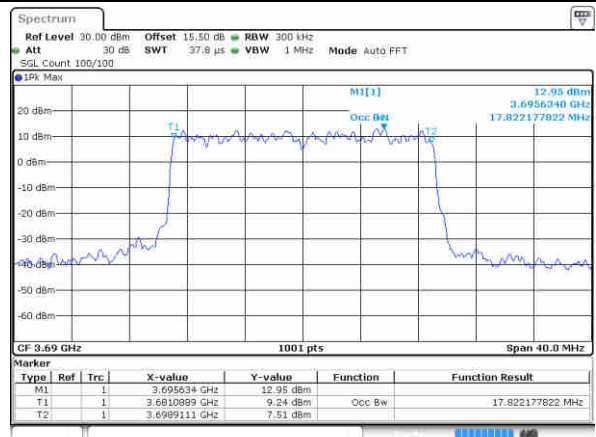
Date: 16 JUL 2020 23:35:34

## Highest Channel / 20MHz / QPSK



Date: 17 JUL 2020 00:13:16

## Highest Channel / 20MHz / 16QAM

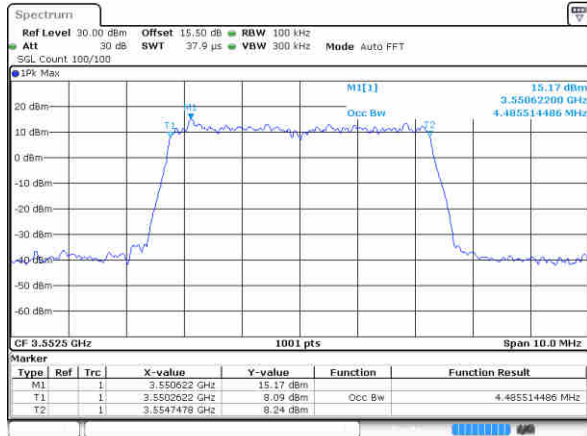


Date: 17 JUL 2020 00:13:34

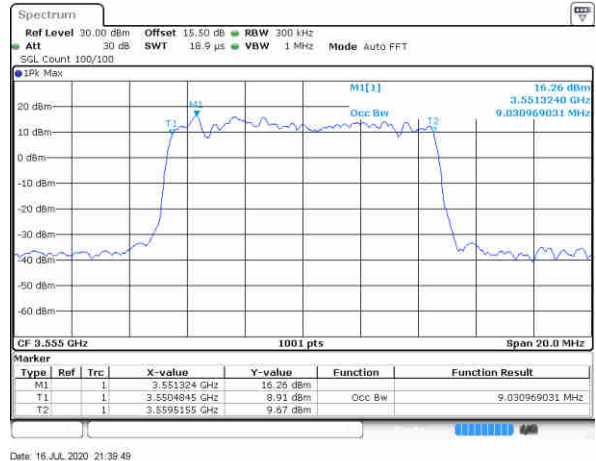


## LTE Band 48

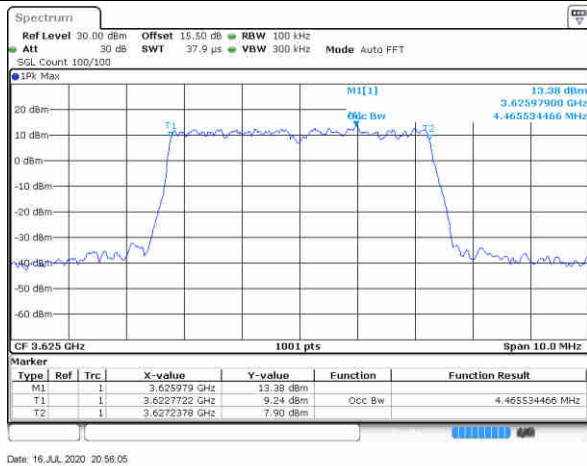
## Lowest Channel / 5MHz / 64QAM



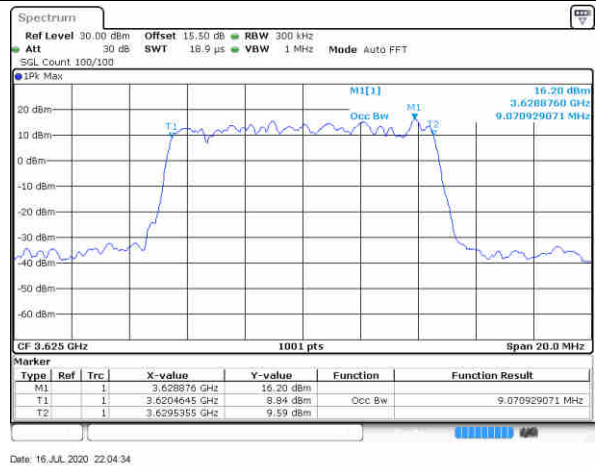
## Lowest Channel / 10MHz / 64QAM



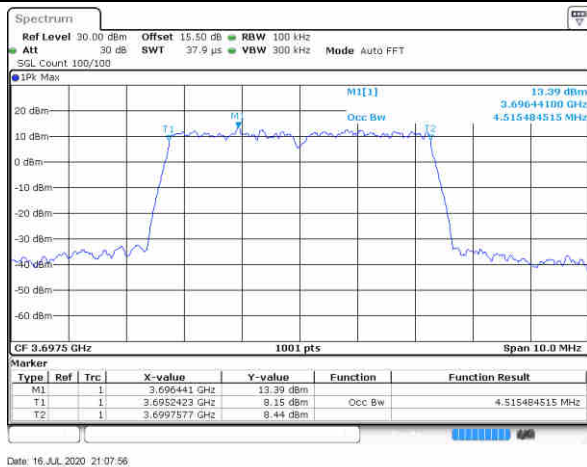
## Middle Channel / 5MHz / 64QAM



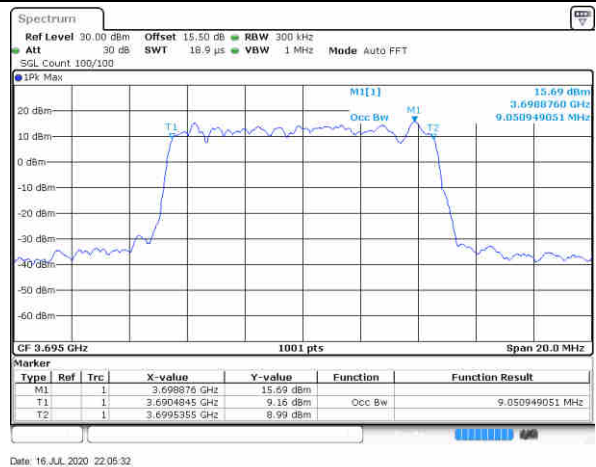
## Middle Channel / 10MHz / 64QAM



## Highest Channel / 5MHz / 64QAM



## Highest Channel / 10MHz / 64QAM

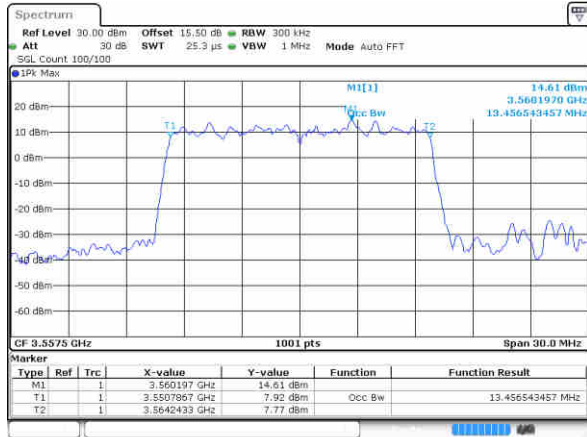




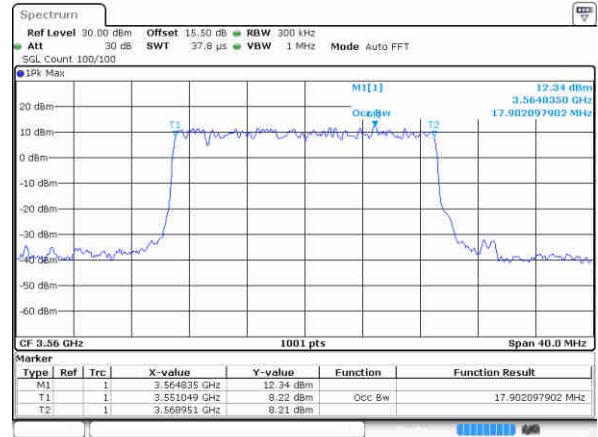


## LTE Band 48

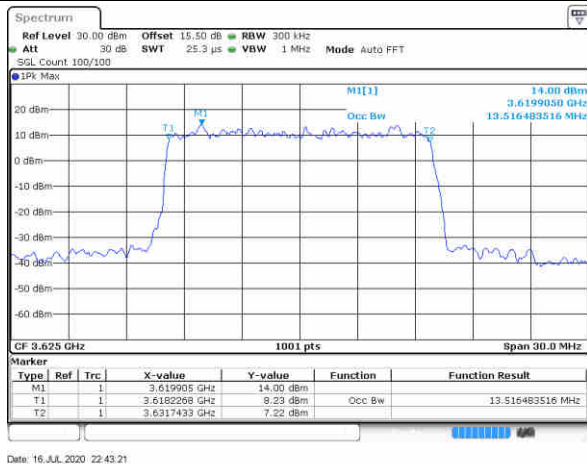
## Lowest Channel / 15MHz / 64QAM



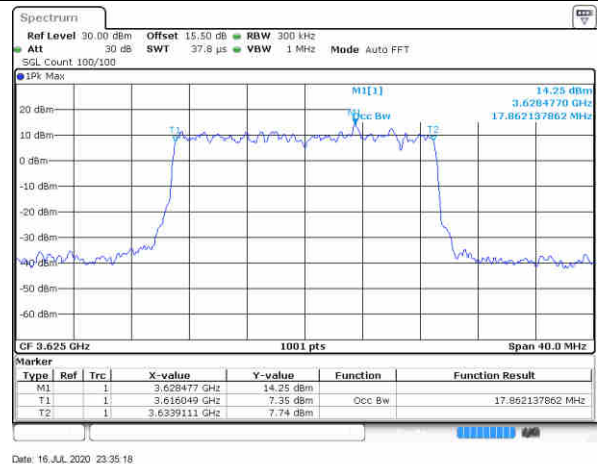
## Lowest Channel / 20MHz / 64QAM



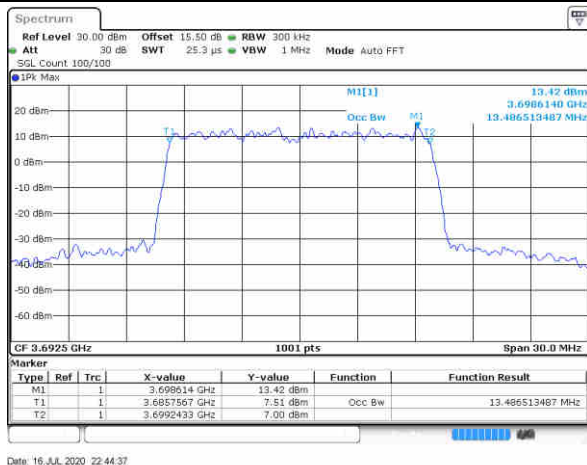
## Middle Channel / 15MHz / 64QAM



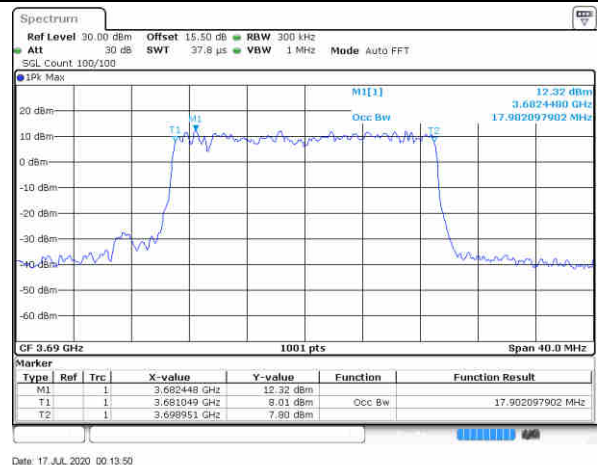
## Middle Channel / 20MHz / 64QAM

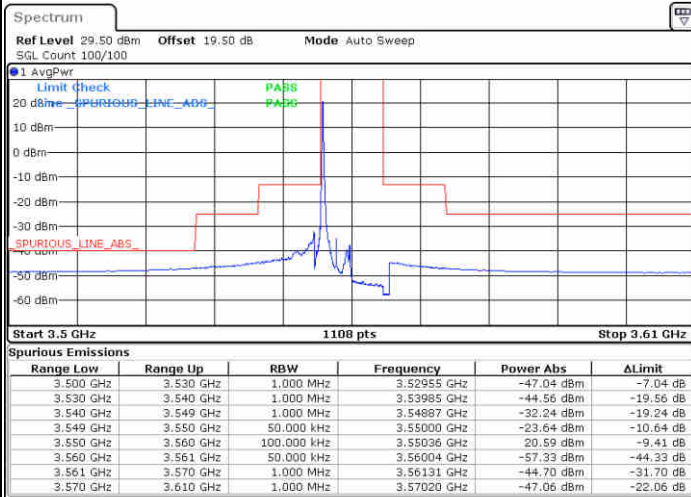


## Highest Channel / 15MHz / 64QAM

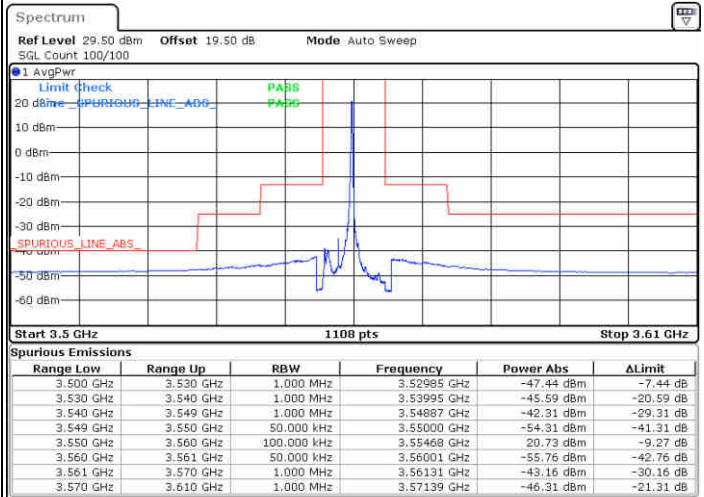


## Highest Channel / 20MHz / 64QAM

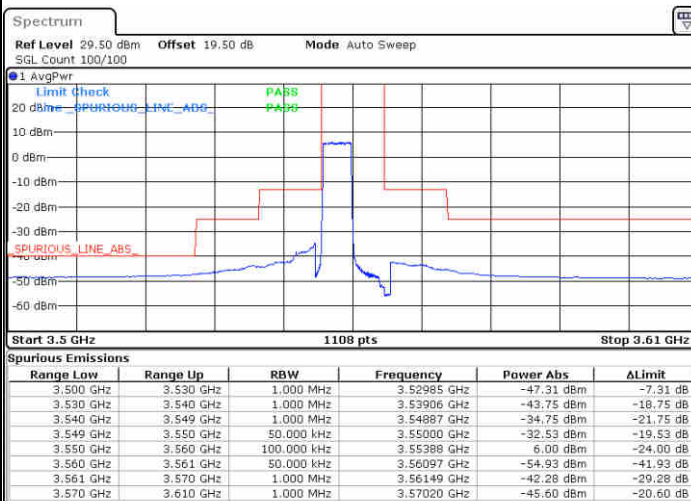


**Conducted Band Edge****LTE Band 48 / 5MHz****QPSK****Lowest Channel / 1RB0****Lowest Channel / 1RBmax**

Date: 22.JUL.2020 22:50:14



Date: 22.JUL.2020 22:54:08

**Lowest Channel / FullRB****N/A**

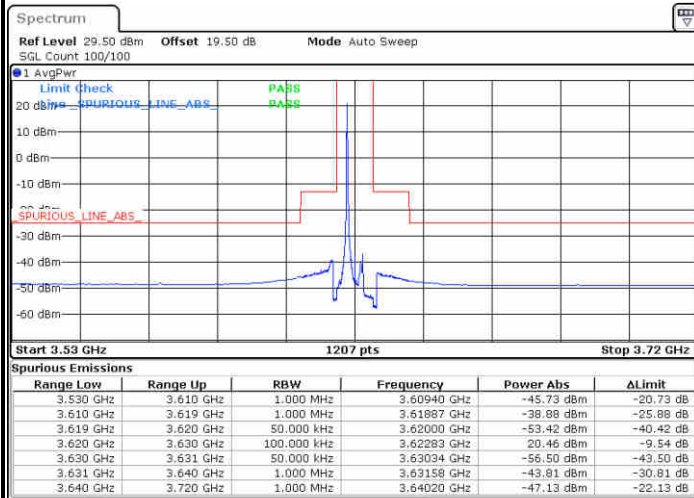
Date: 22.JUL.2020 22:34:56



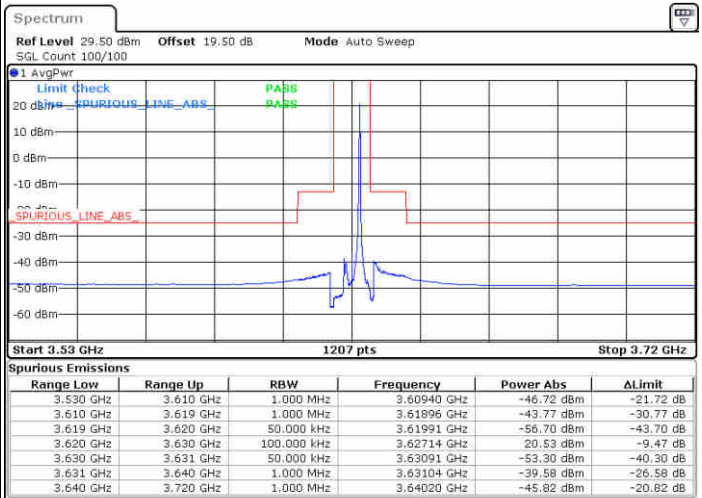
## LTE Band 48 / 5MHz

## QPSK

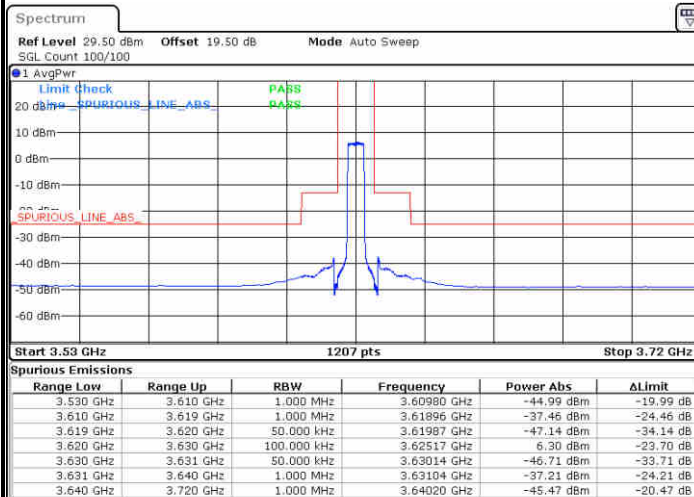
## Middle Channel / 1RB0



## Middle Channel / 1RBmax



## Middle Channel / FullIRB



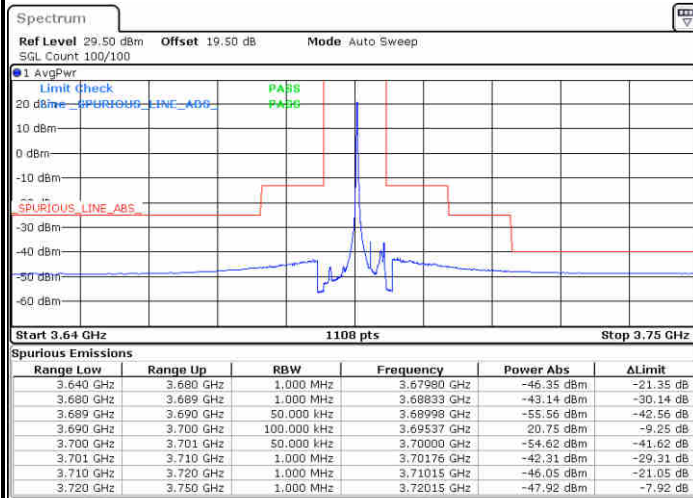
## N/A



## LTE Band 48 / 5MHz

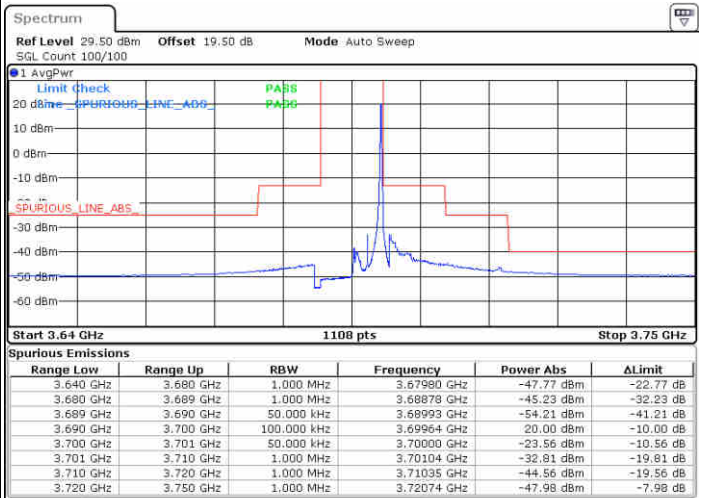
## QPSK

## Highest Channel / 1RB0



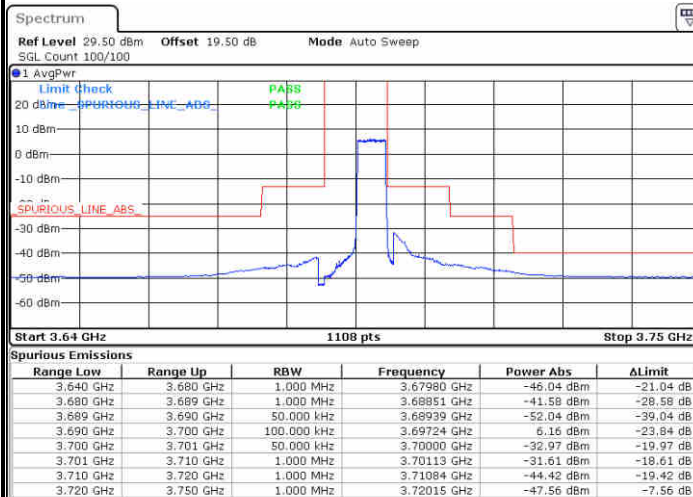
Date: 23.JUL.2020 01:18:51

## Highest Channel / 1RBmax



Date: 16.JUL.2020 21:14:38

## Highest Channel / FullIRB



Date: 16.JUL.2020 21:19:20

## N/A

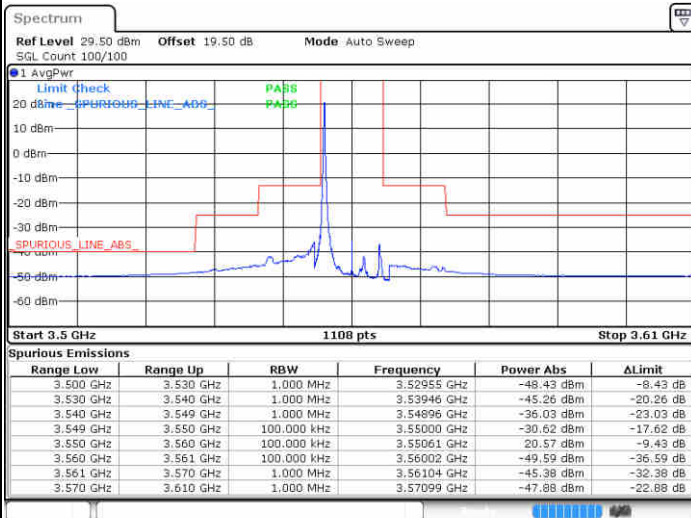


## LTE Band 48 / 10MHz

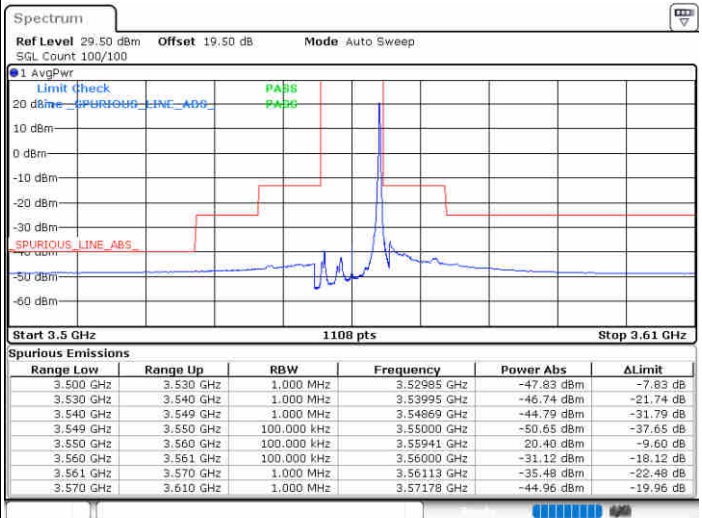
## QPSK

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



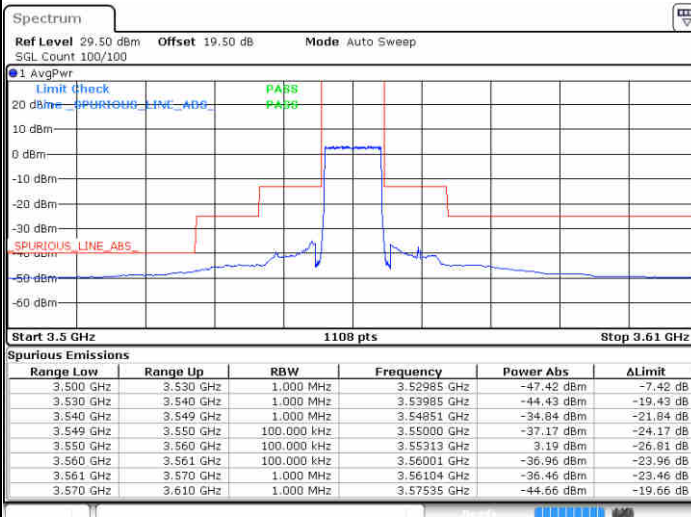
Date: 16 JUL 2020 22:19:13



Date: 23 JUL 2020 00:17:39

## Lowest Channel / FullRB

## N/A



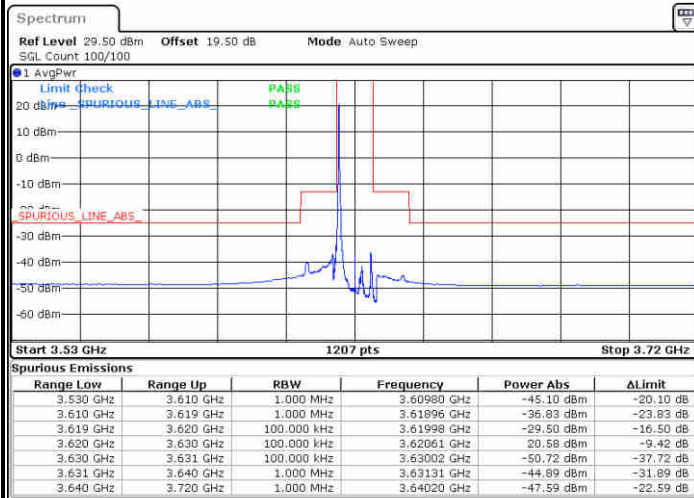
Date: 16 JUL 2020 21:37:50



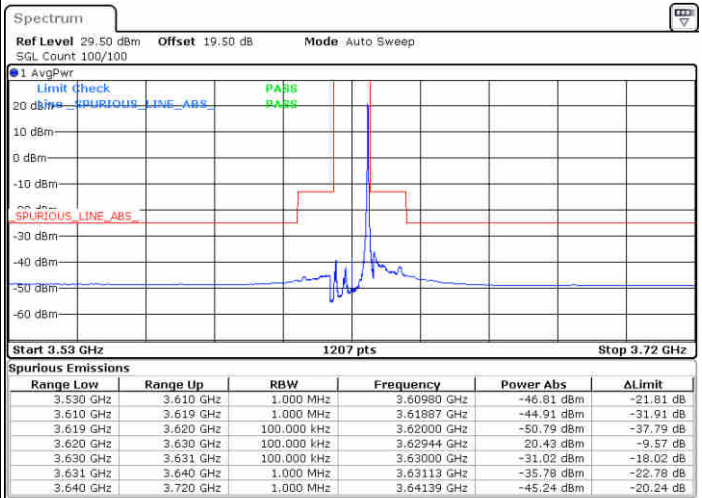
## LTE Band 48 / 10MHz

## QPSK

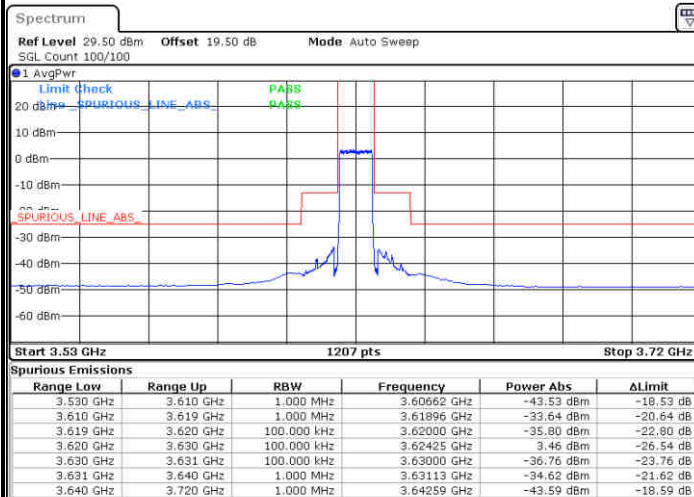
## MiddleChannel / 1RB0



## Middle Channel / 1RBmax



## Middle Channel / FullIRB



## N/A

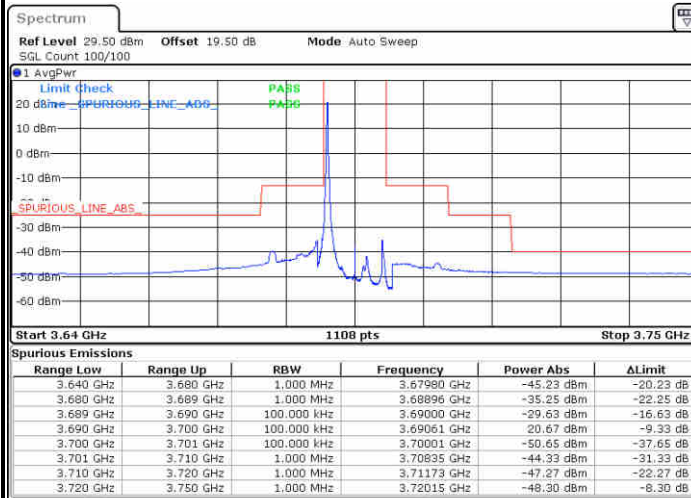




## LTE Band 48 / 10MHz

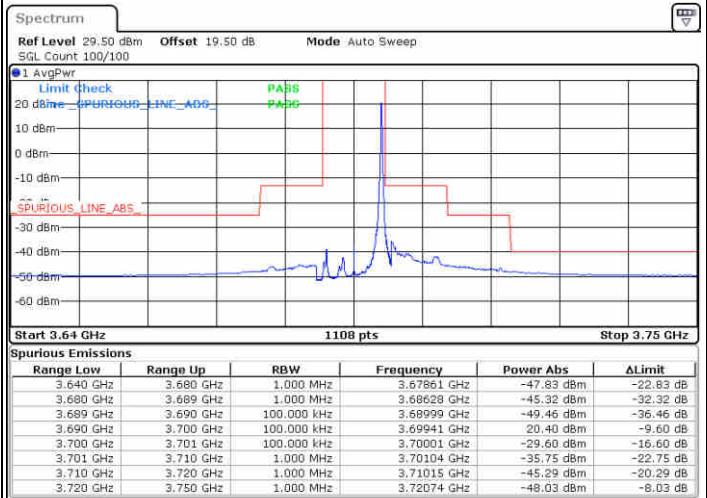
## QPSK

## Highest Channel / 1RB0



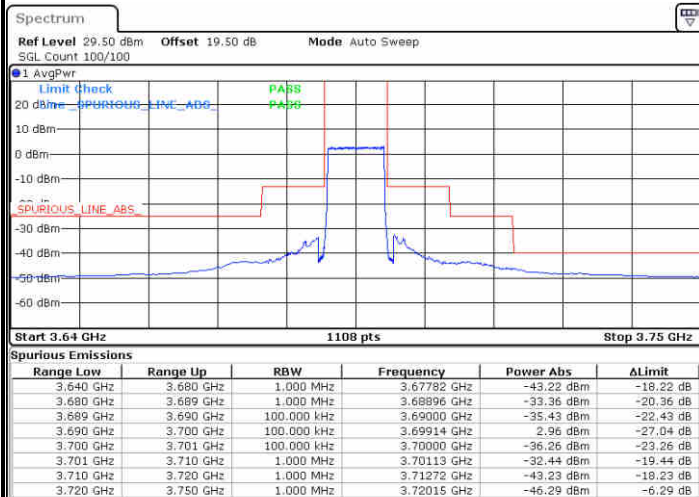
Date: 23 JUL 2020 01:00:53

## Highest Channel / 1RBmax



Date: 16 JUL 2020 22:11:23

## Highest Channel / FullIRB



Date: 16 JUL 2020 22:07:44

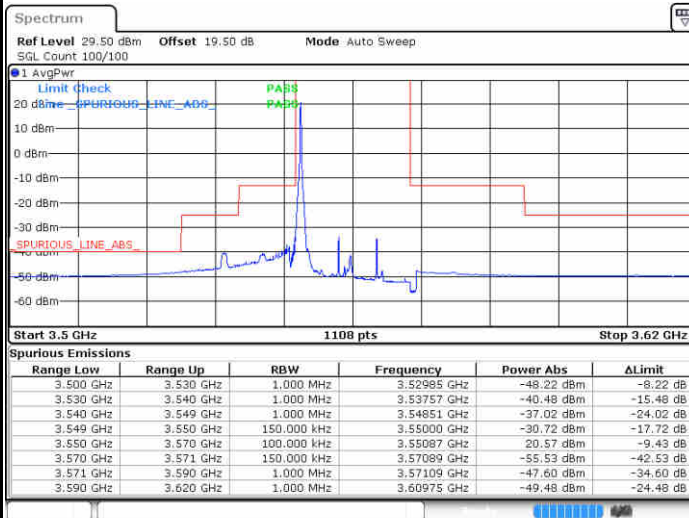
N/A



## LTE Band 48 / 15MHz

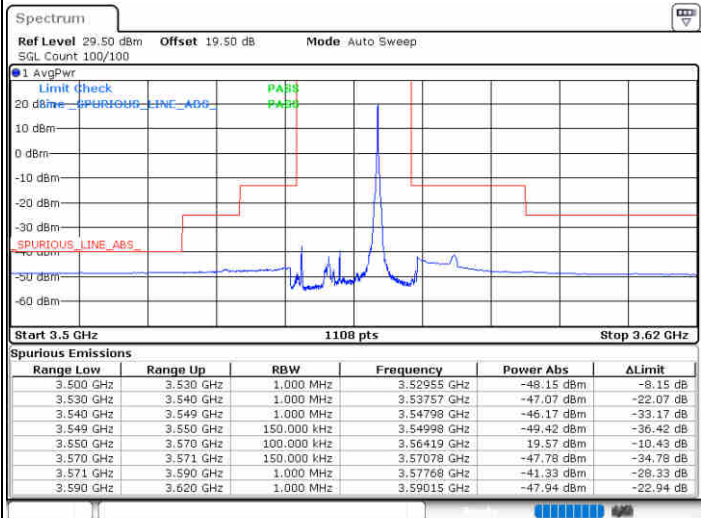
## QPSK

## Lowest Channel / 1RB0



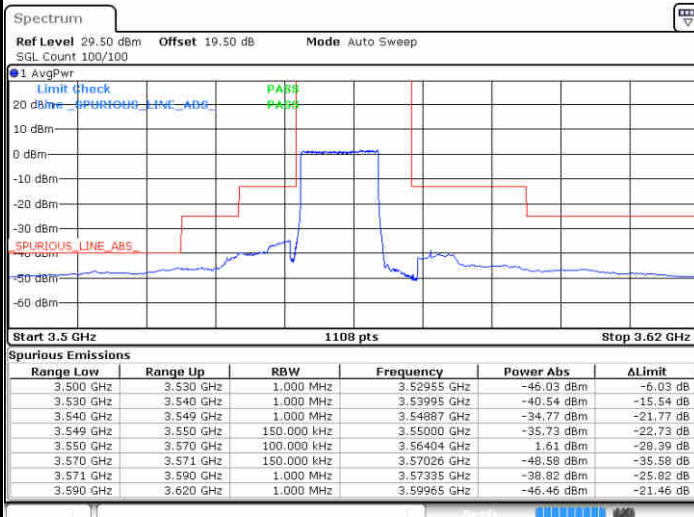
Date: 16 JUL 2020 22:27:11

## Lowest Channel / 1RBmax



Date: 23 JUL 2020 19:46:57

## Lowest Channel / FullRB



Date: 16 JUL 2020 22:26:03

## N/A

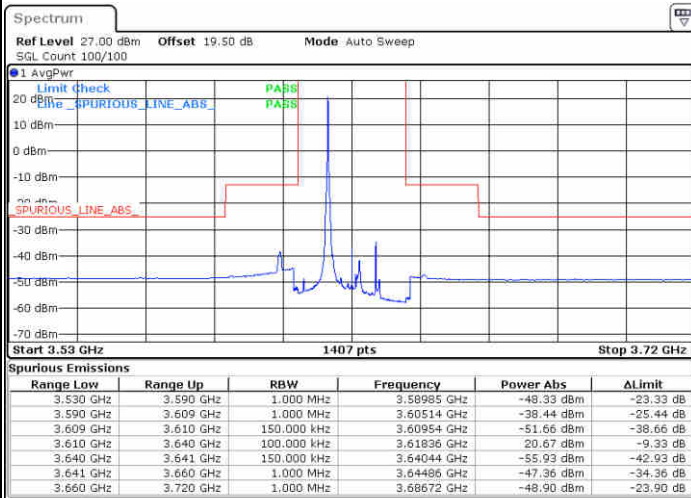


## LTE Band 48 / 15MHz

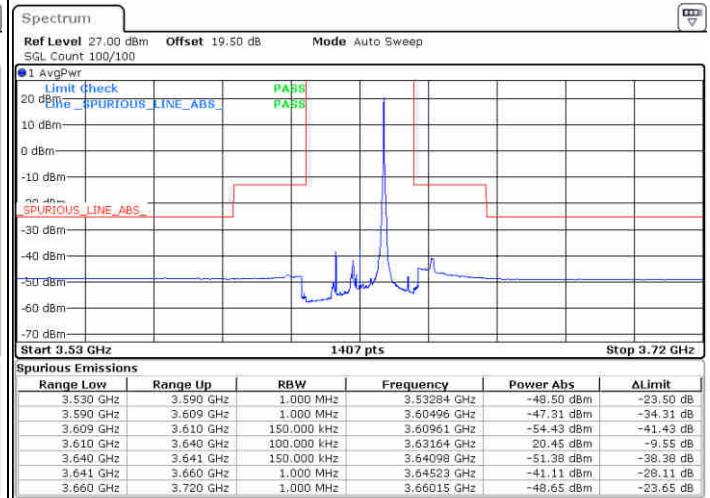
## QPSK

## Middle Channel / 1RB0

## Middle Channel / 1RBmax



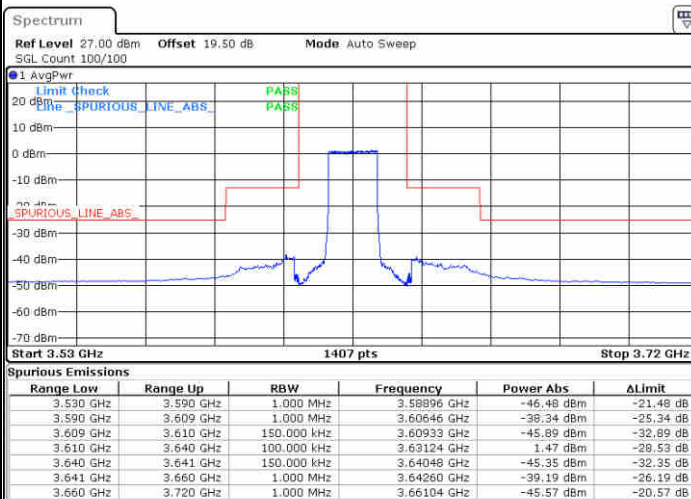
Date: 23.JUL.2020 20:31:10



Date: 23.JUL.2020 20:34:04

## Middle Channel / FullIRB

## N/A



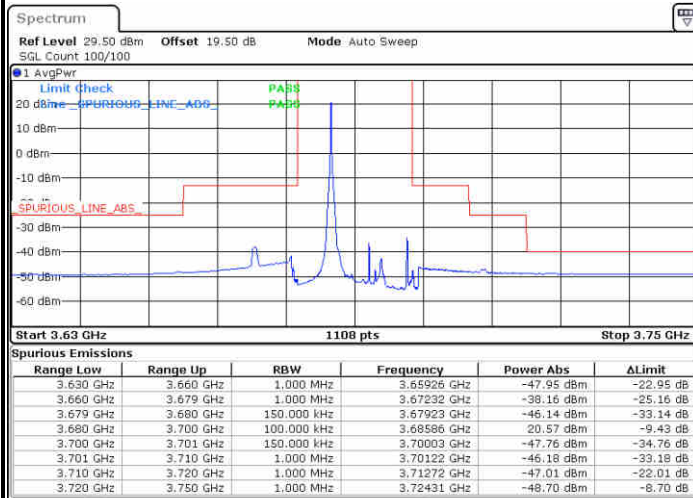
Date: 23.JUL.2020 20:08:54



## LTE Band 48 / 15MHz

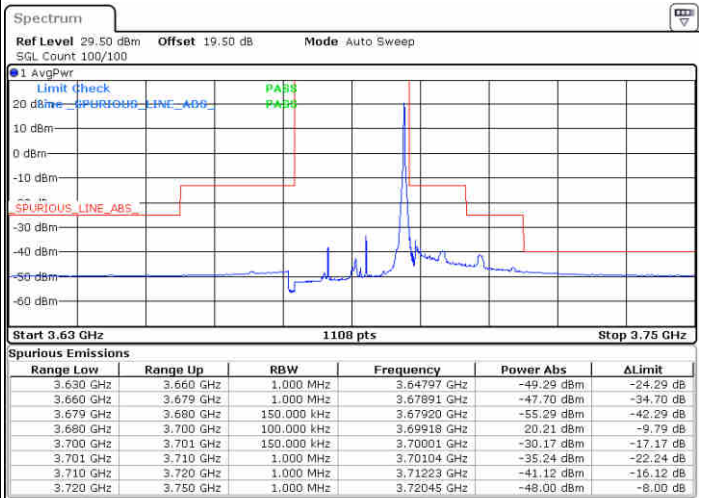
## QPSK

## Highest Channel / 1RB0



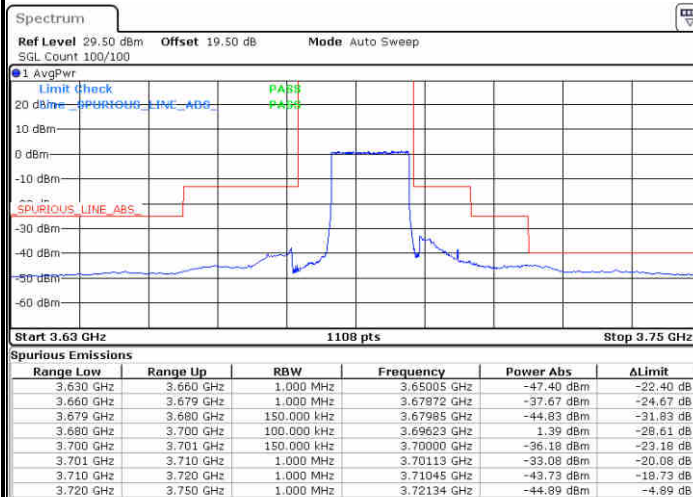
Date: 23.JUL.2020 21:18:08

## Highest Channel / 1RBmax



Date: 16.JUL.2020 22:51:51

## Highest Channel / FullIRB



Date: 16.JUL.2020 22:49:56

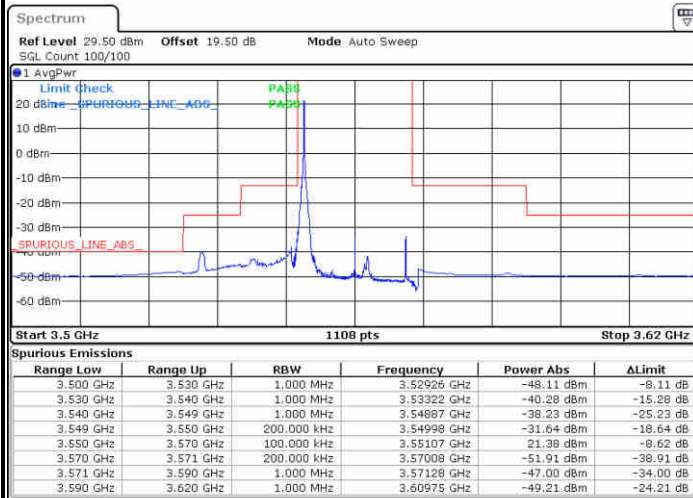
N/A



## LTE Band 48 / 20MHz

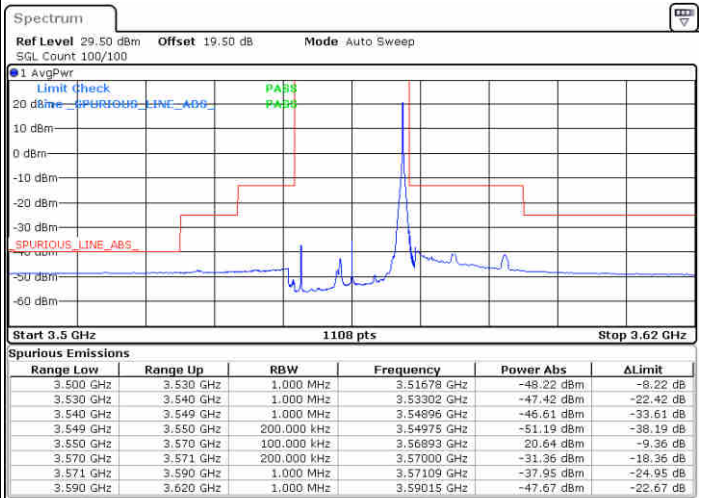
## QPSK

## Lowest Channel / 1RB0



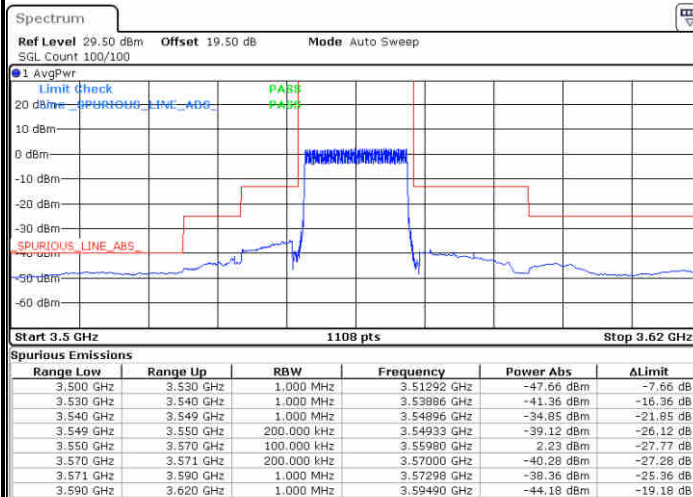
Date: 16 JUL 2020 23:21:17

## Lowest Channel / 1RBmax



Date: 23 JUL 2020 21:38:25

## Lowest Channel / FullRB



Date: 16 JUL 2020 23:15:18

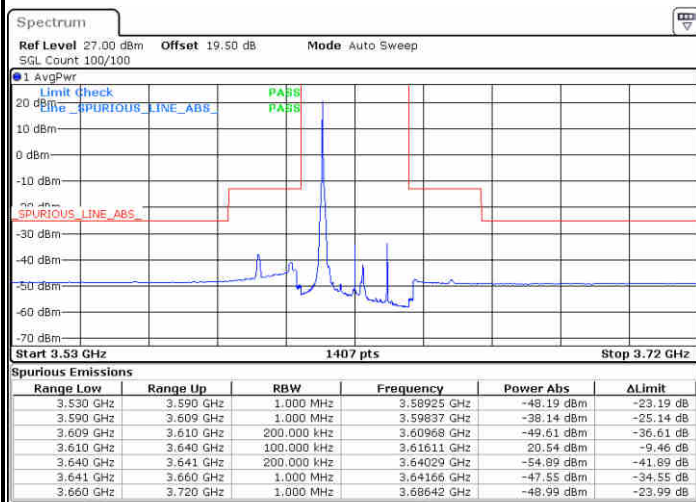
## N/A



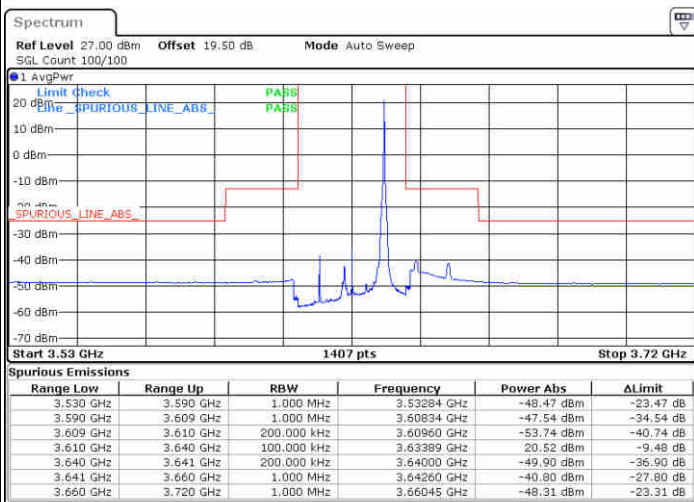
## LTE Band 48 / 20MHz

## QPSK

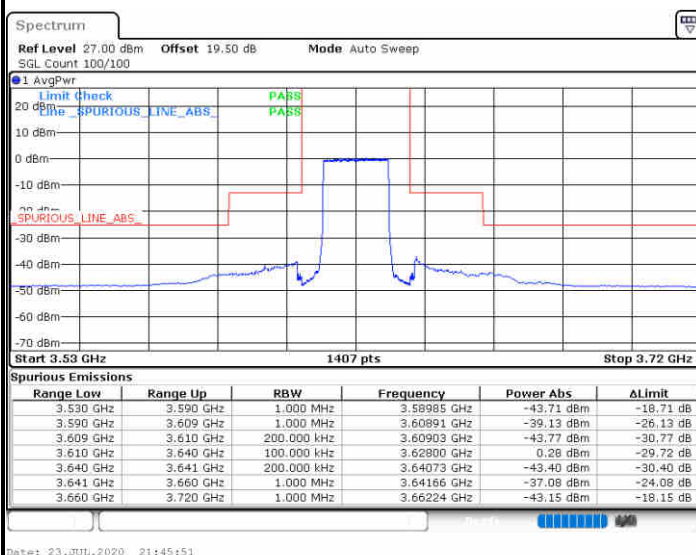
## Middle Channel / 1RB0



## Middle Channel / 1RBmax



## Middle Channel / FullIRB



## N/A

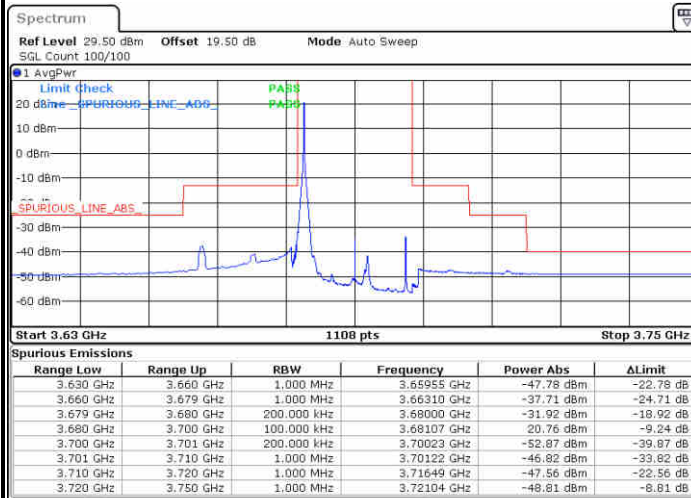




## LTE Band 48 / 20MHz

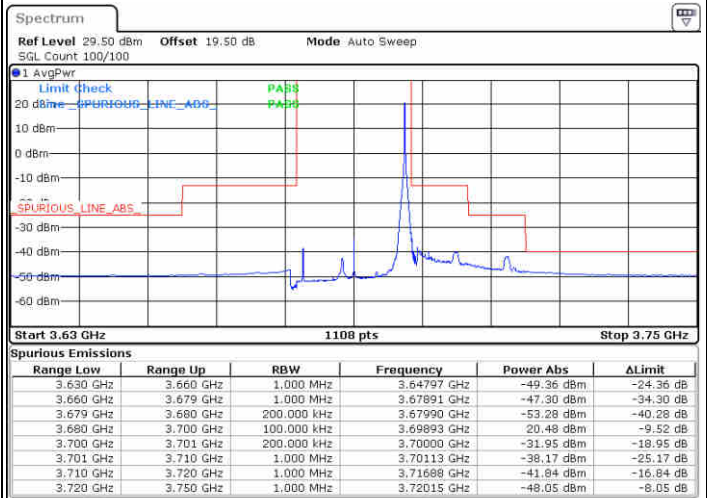
## QPSK

## Highest Channel / 1RB0



Date: 23.JUL.2020 22:27:16

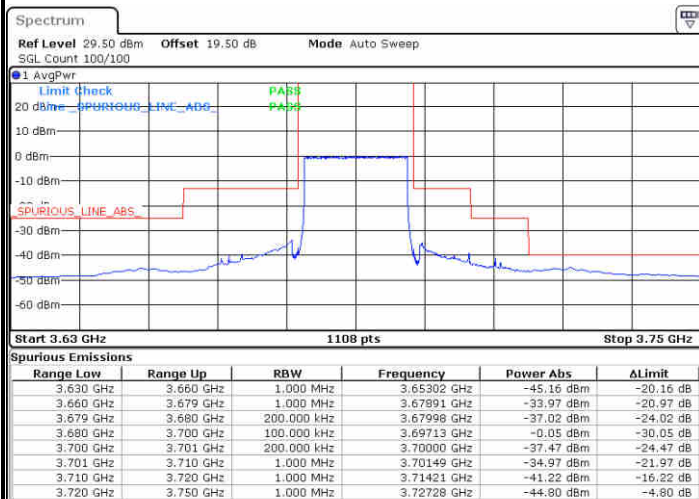
## Highest Channel / 1RBmax



Date: 16.JUL.2020 23:57:01

## Highest Channel / FullIRB

## N/A



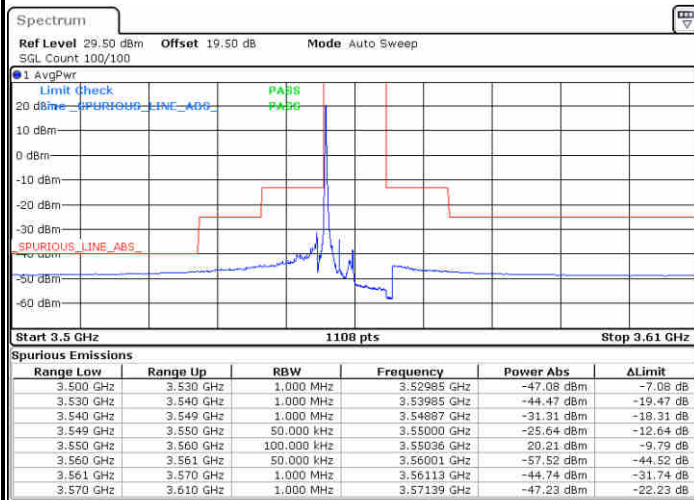
Date: 17.JUL.2020 00:12:41



## LTE Band 48 / 5MHz

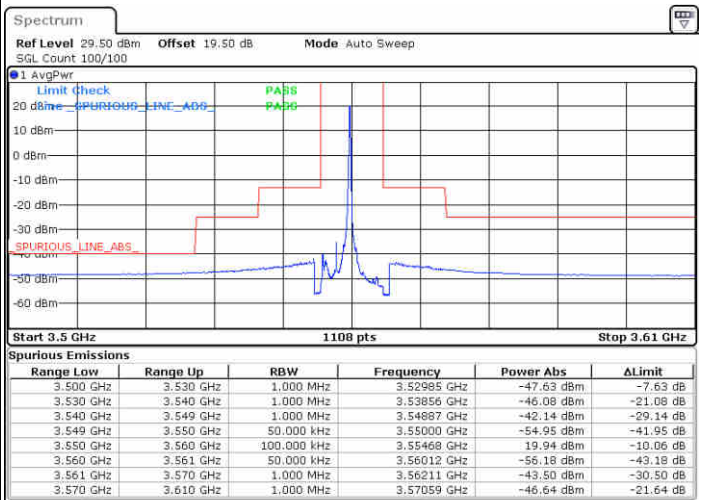
## 16QAM

## Lowest Channel / 1RB0



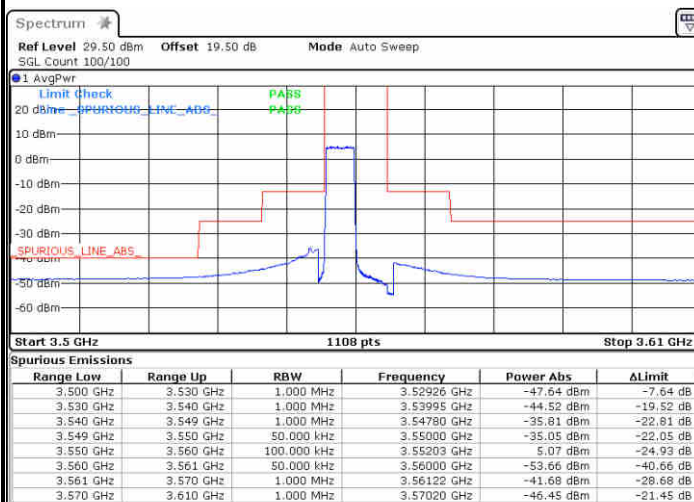
Date: 22.JUL.2020 22:47:21

## Lowest Channel / 1RBmax



Date: 22.JUL.2020 22:56:42

## Lowest Channel / FullRB



Date: 22.JUL.2020 22:39:59

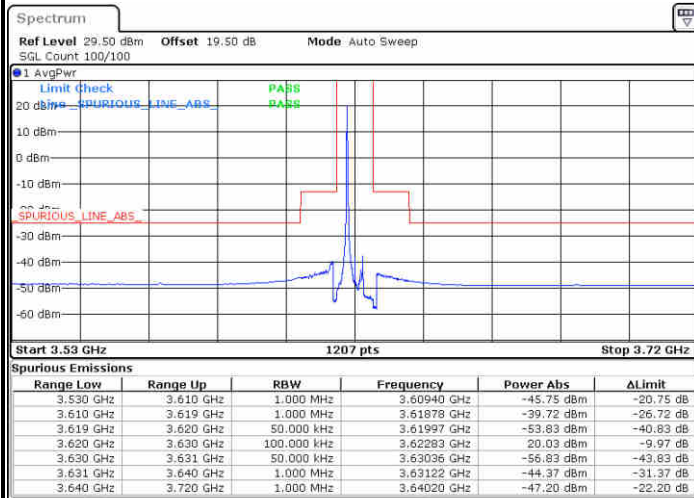
N/A



## LTE Band 48 / 5MHz

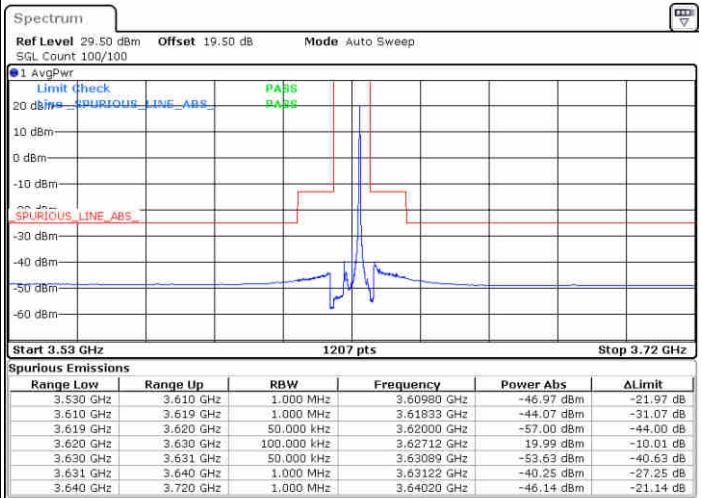
## 16QAM

## Middle Channel / 1RB0



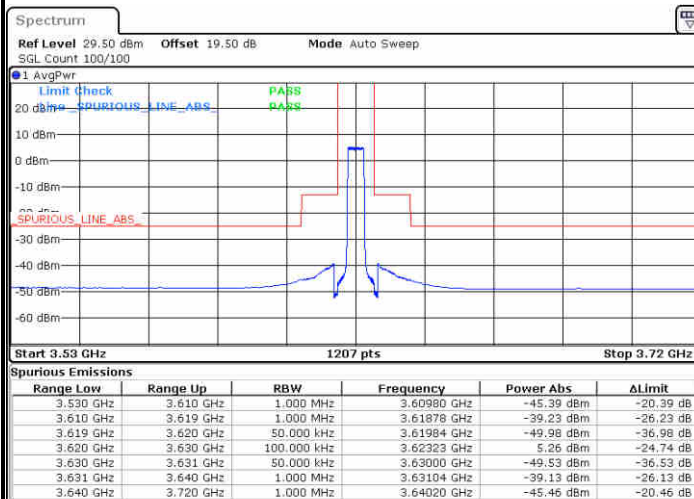
Date: 22.JUL.2020 23:17:44

## Middle Channel / 1RBmax



Date: 22.JUL.2020 23:24:31

## Middle Channel / FullIRB



Date: 22.JUL.2020 23:04:09

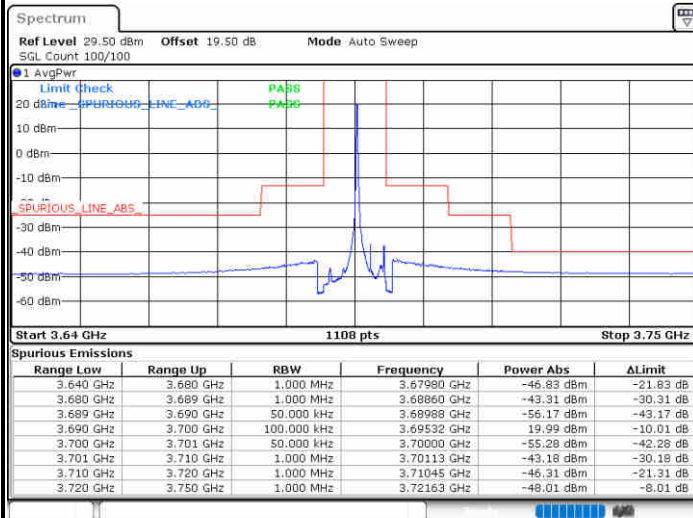
## N/A



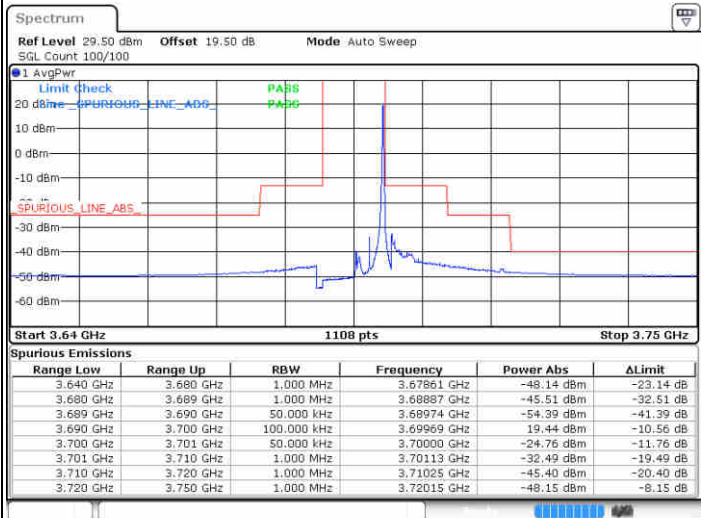
## LTE Band 48 / 5MHz

## 16QAM

## Highest Channel / 1RB0

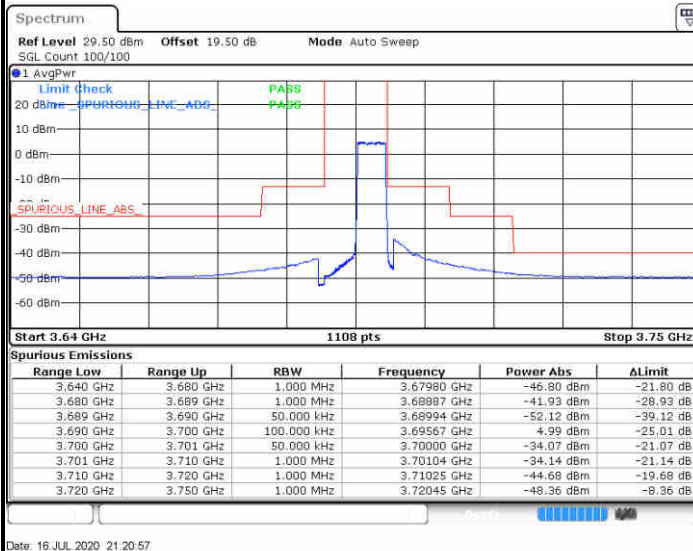


## Highest Channel / 1RBmax



## Highest Channel / FullRB

N/A

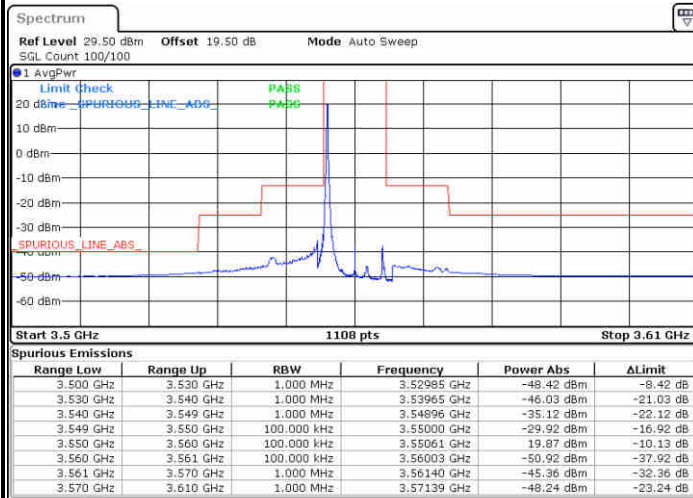




## LTE Band 48 / 10MHz

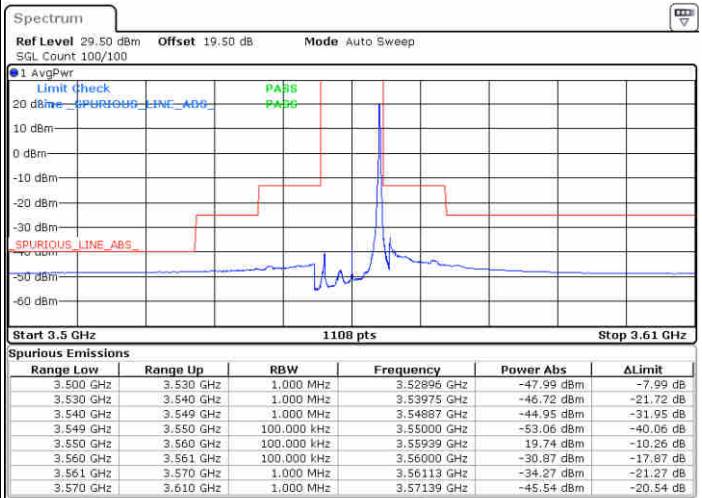
## 16QAM

## Lowest Channel / 1RB0



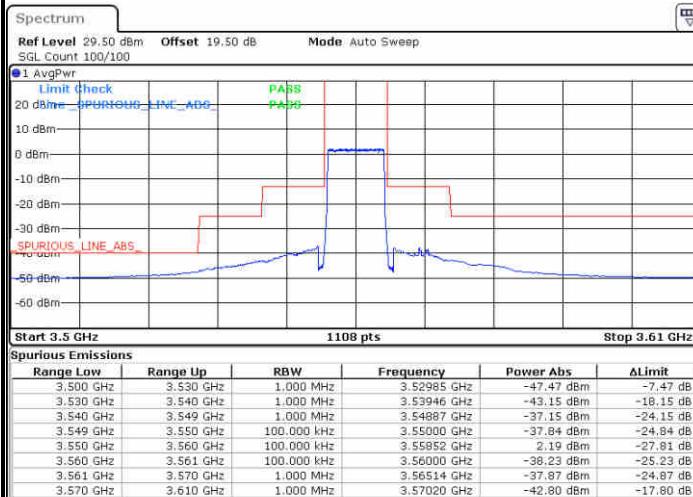
Date: 16 JUL 2020 22:19:53

## Lowest Channel / 1RBmax



Date: 23 JUL 2020 00:19:45

## Lowest Channel / FullRB



Date: 16 JUL 2020 21:39:12

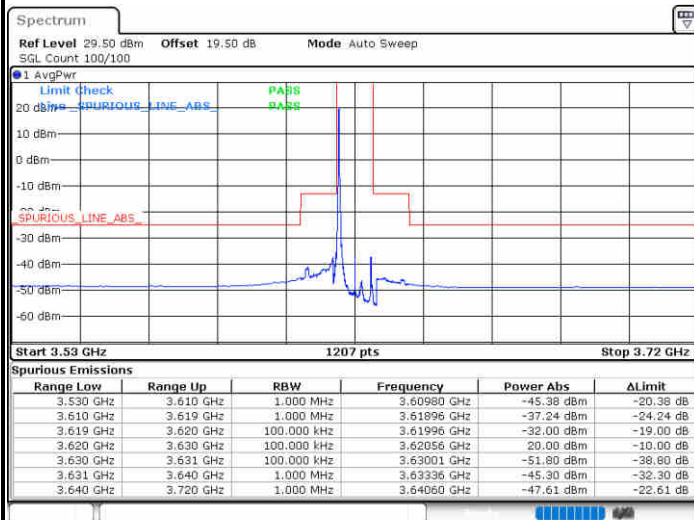
## N/A



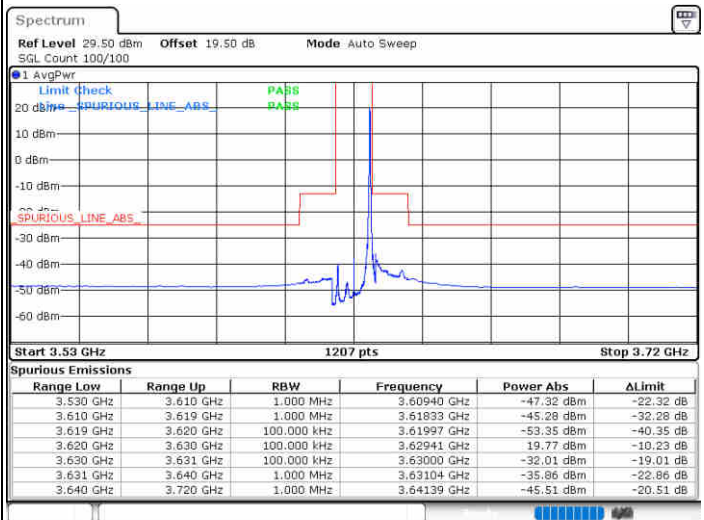
## LTE Band 48 / 10MHz

## 16QAM

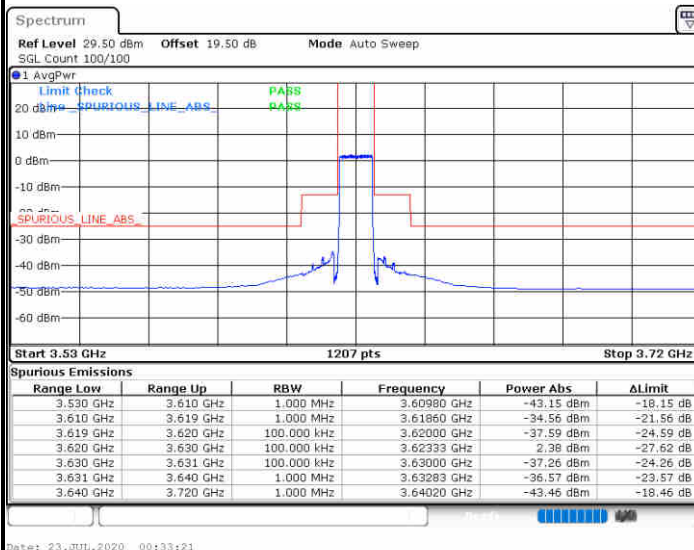
## MiddleChannel / 1RB0



## Middle Channel / 1RBmax



## Middle Channel / FullIRB



## N/A

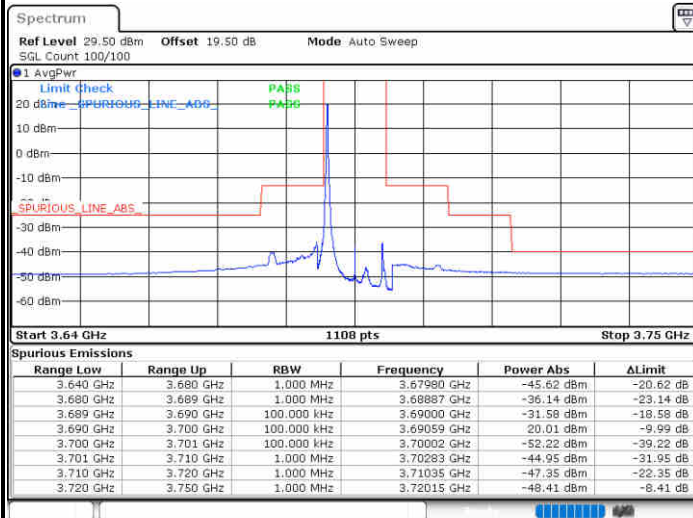




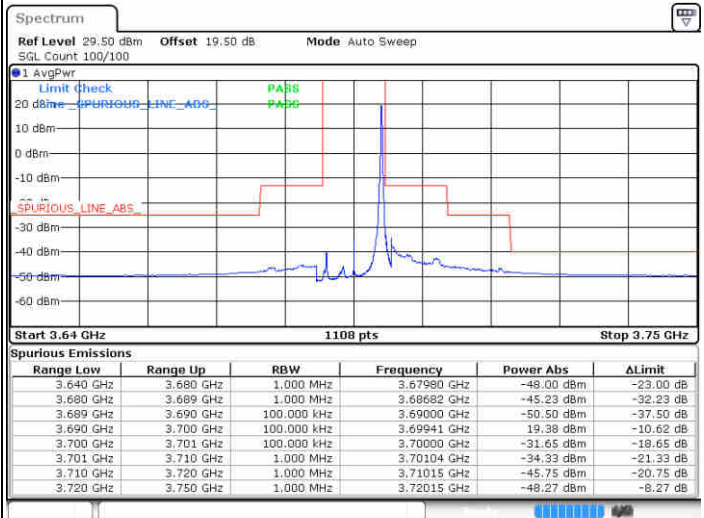
## LTE Band 48 / 10MHz

## 16QAM

## Highest Channel / 1RB0

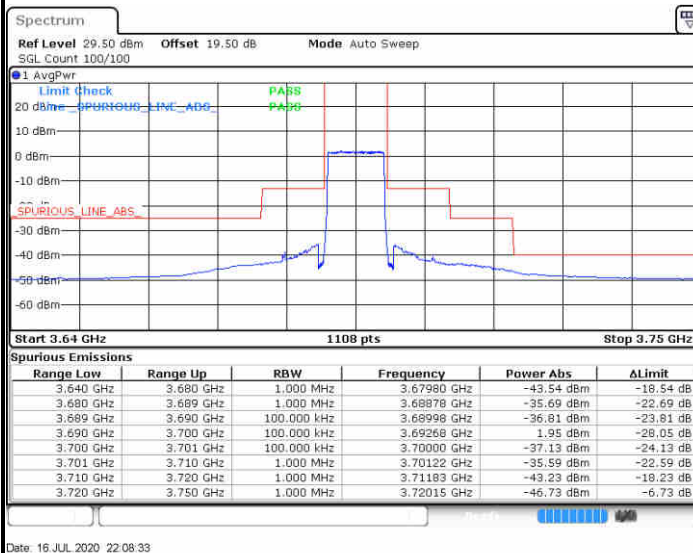


## Highest Channel / 1RBmax



## Highest Channel / FullIRB

N/A

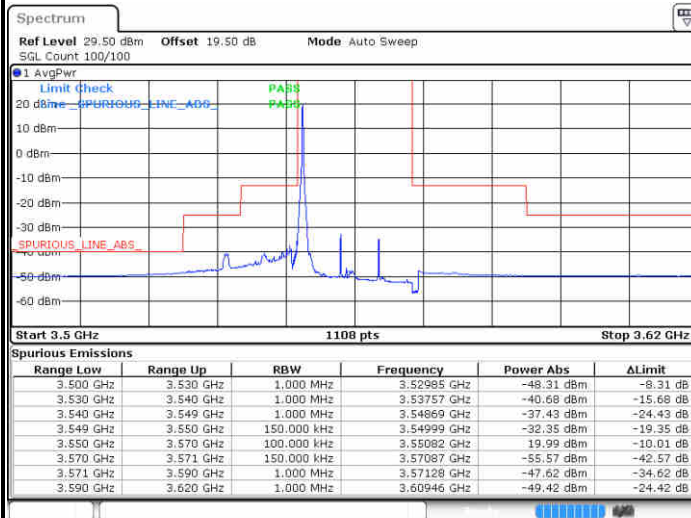




## LTE Band 48 / 15MHz

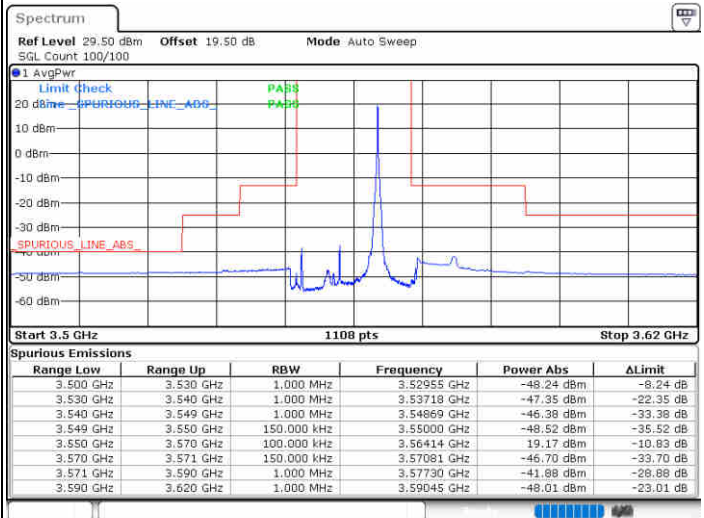
## 16QAM

## Lowest Channel / 1RB0



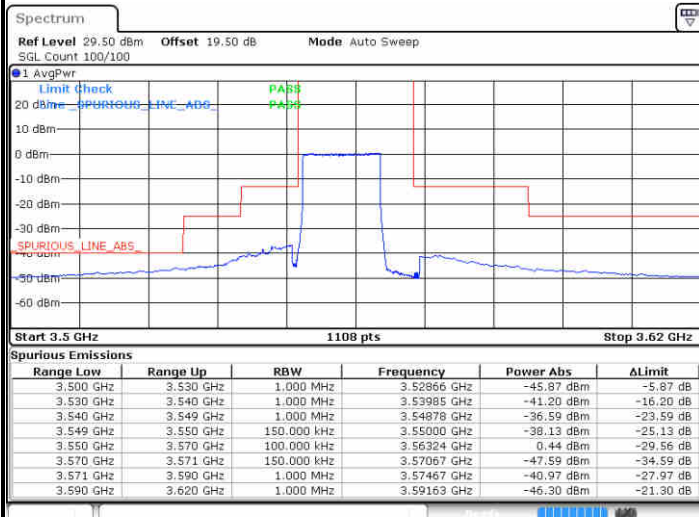
Date: 16 JUL 2020 22:30:17

## Lowest Channel / 1RBmax



Date: 23 JUL 2020 19:59:21

## Lowest Channel / FullRB



Date: 16 JUL 2020 22:25:04

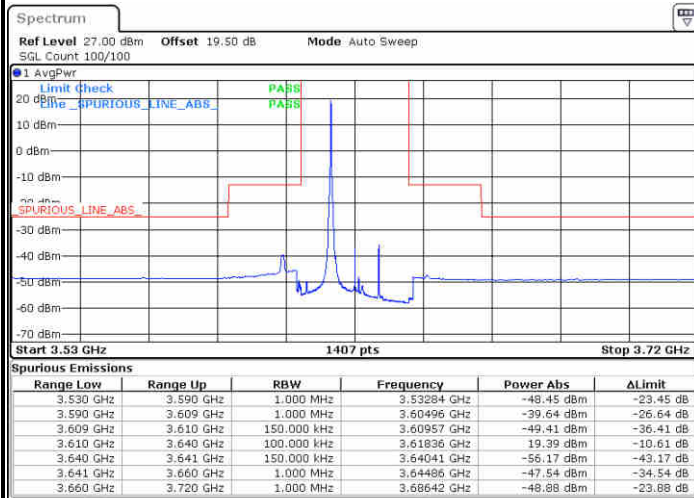
## N/A



## LTE Band 48 / 15MHz

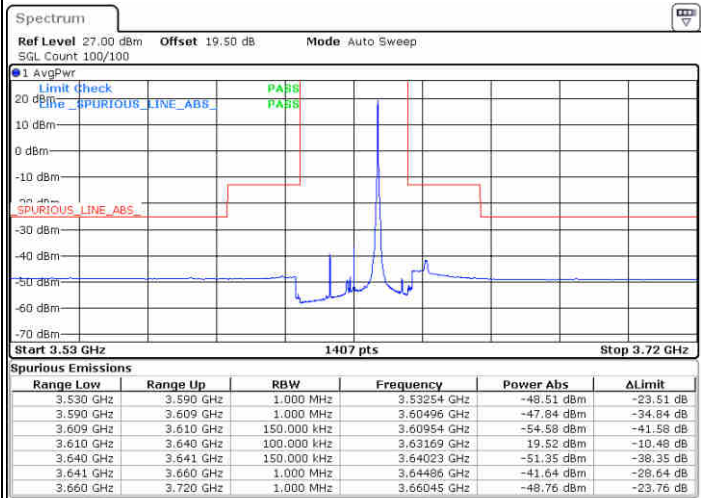
## 16QAM

## Middle Channel / 1RB0



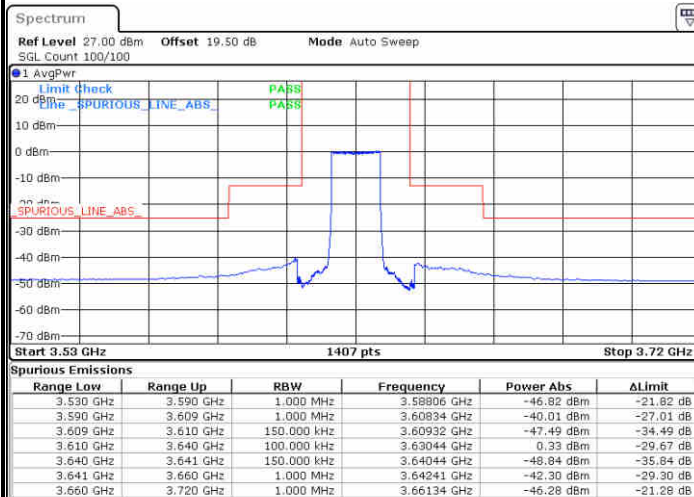
Date: 23.JUL.2020 20:25:31

## Middle Channel / 1RBmax



Date: 23.JUL.2020 20:54:10

## Middle Channel / FullIRB



Date: 23.JUL.2020 20:17:41

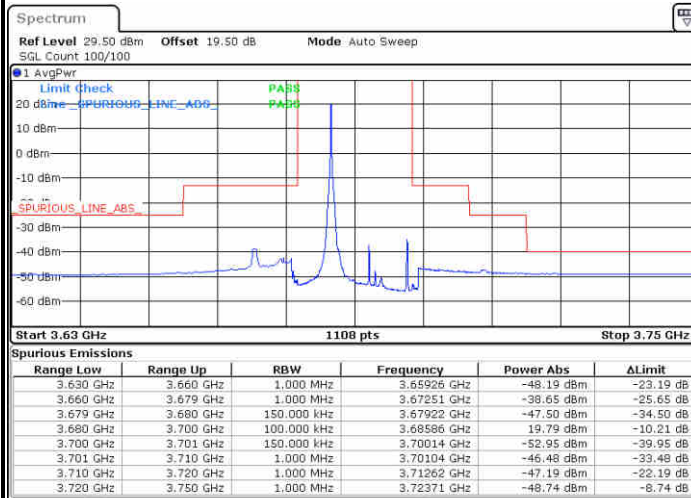
## N/A



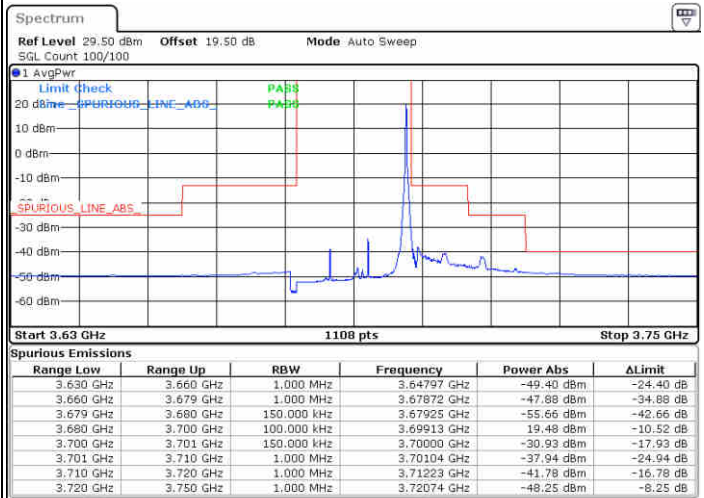
## LTE Band 48 / 15MHz

## 16QAM

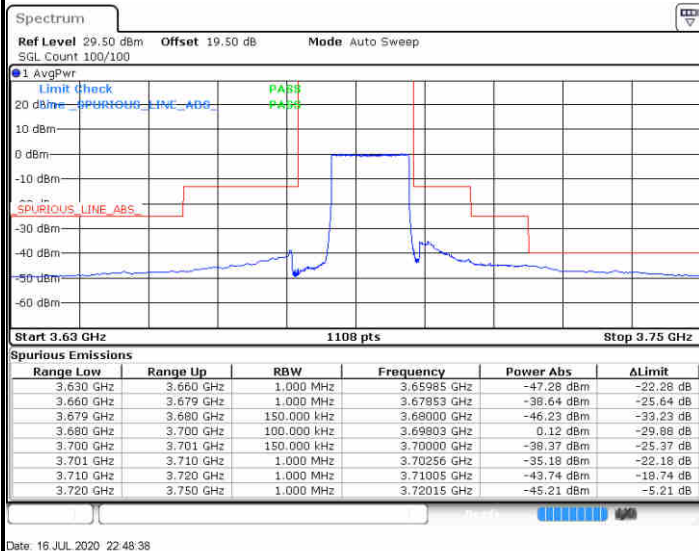
## Highest Channel / 1RB0



## Highest Channel / 1RBmax



## Highest Channel / FullIRB



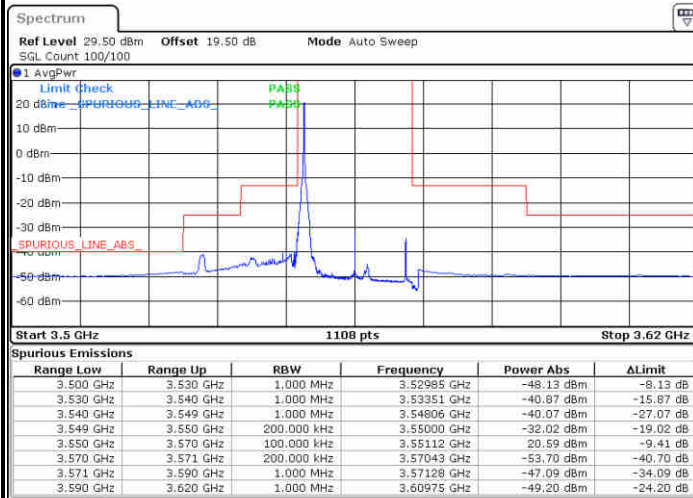
N/A



## LTE Band 48 / 20MHz

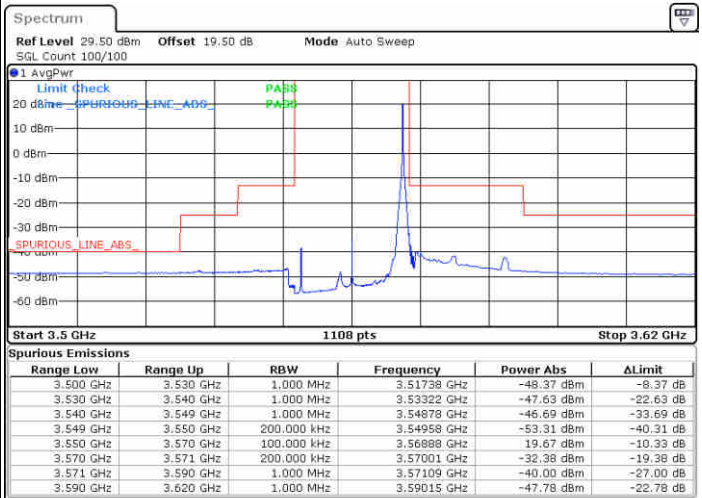
## 16QAM

## Lowest Channel / 1RB0



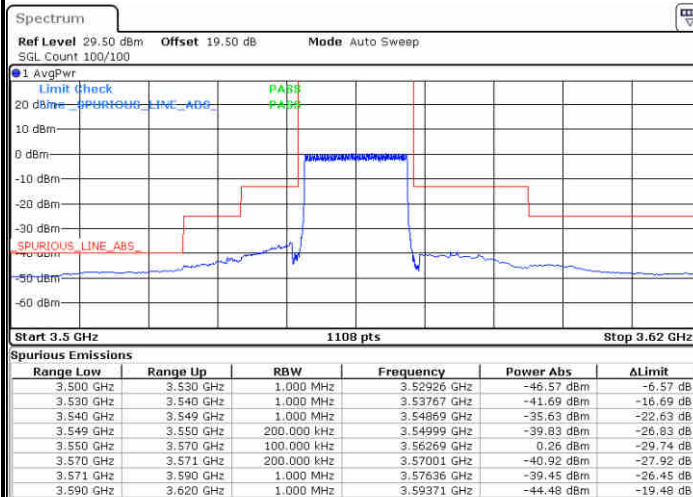
Date: 16 JUL 2020 23:19:26

## Lowest Channel / 1RBmax



Date: 23 JUL 2020 21:40:41

## Lowest Channel / FullRB



Date: 16 JUL 2020 23:16:22

## N/A

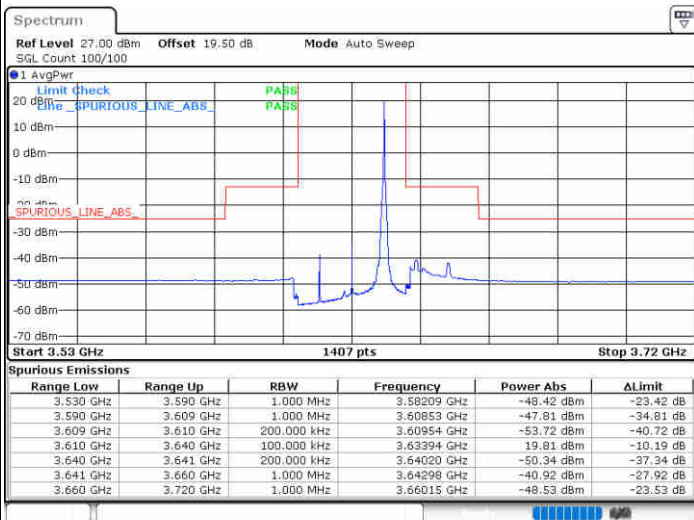
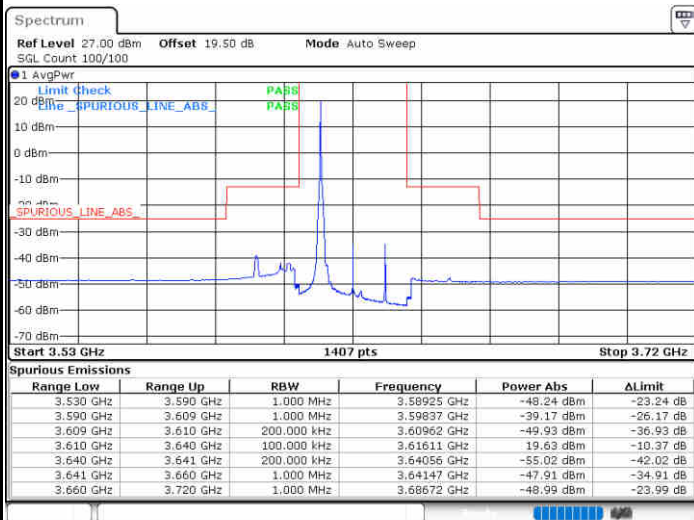


## LTE Band 48 / 20MHz

## 16QAM

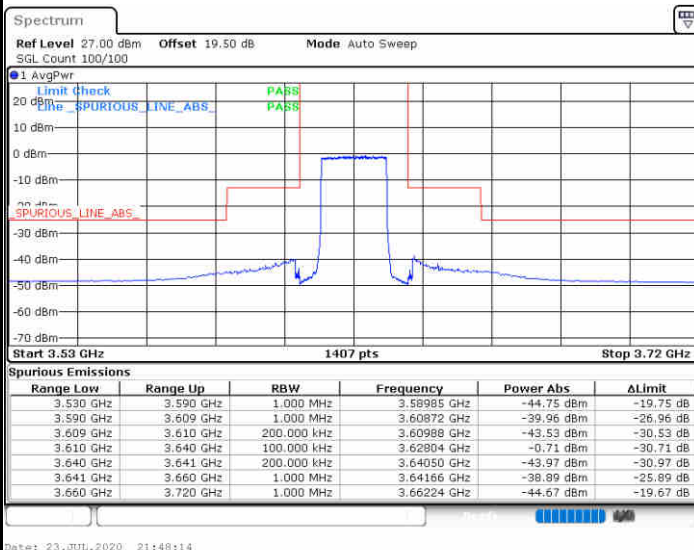
## Middle Channel / 1RB0

## Middle Channel / 1RBmax



## Middle Channel / FullIRB

## N/A



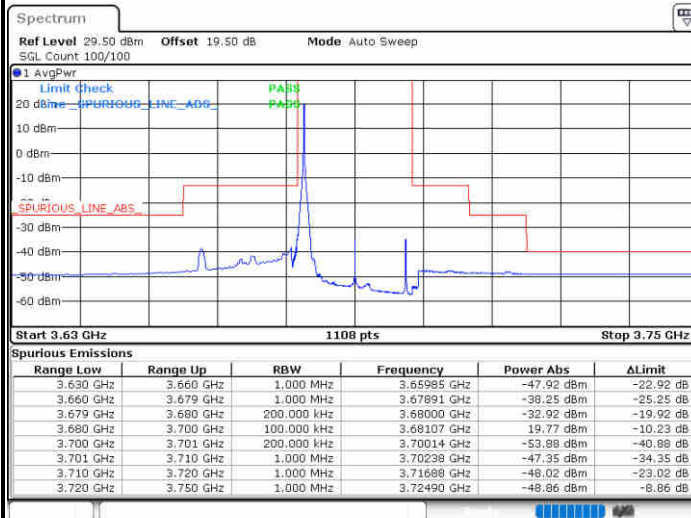




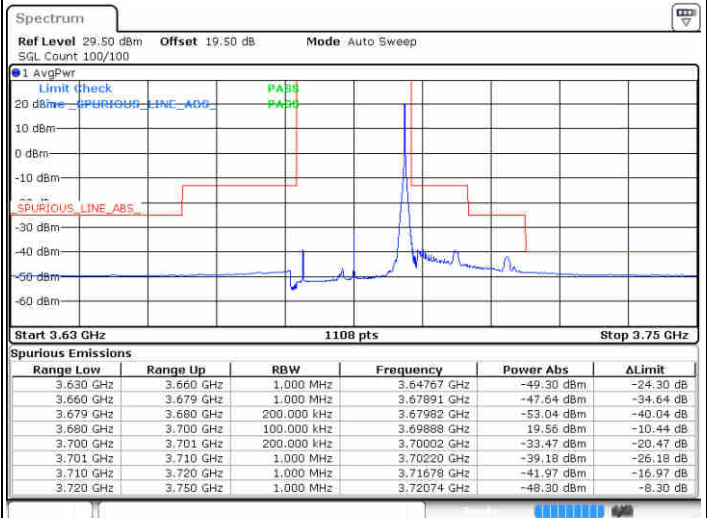
## LTE Band 48 / 20MHz

## 16QAM

## Highest Channel / 1RB0

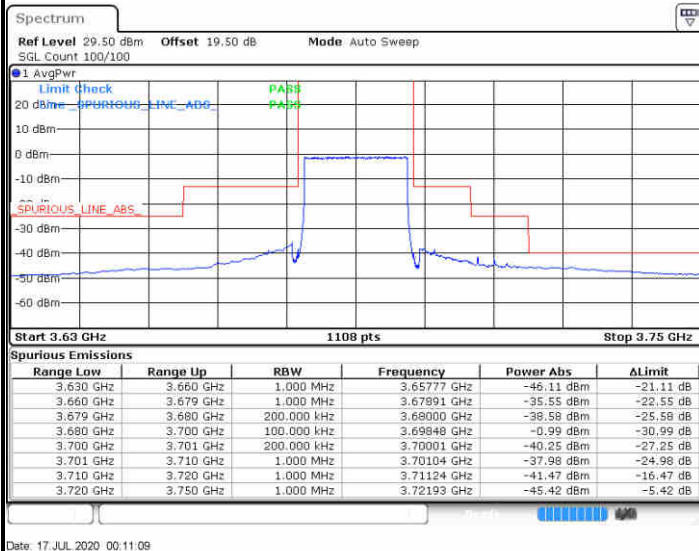


## Highest Channel / 1RBmax



## Highest Channel / FullIRB

## N/A

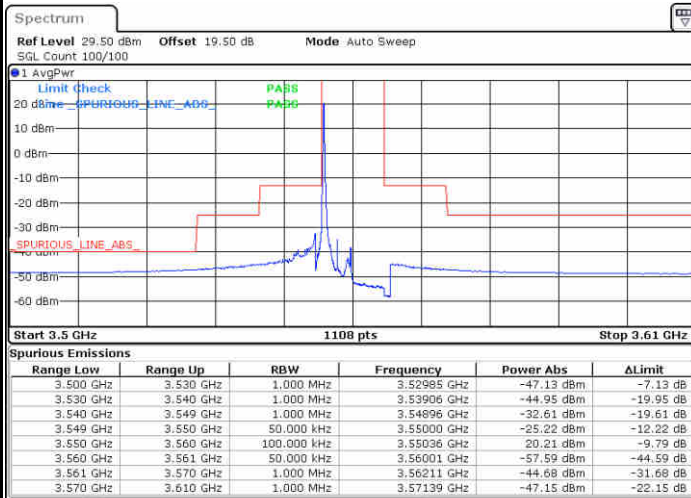




## LTE Band 48 / 5MHz

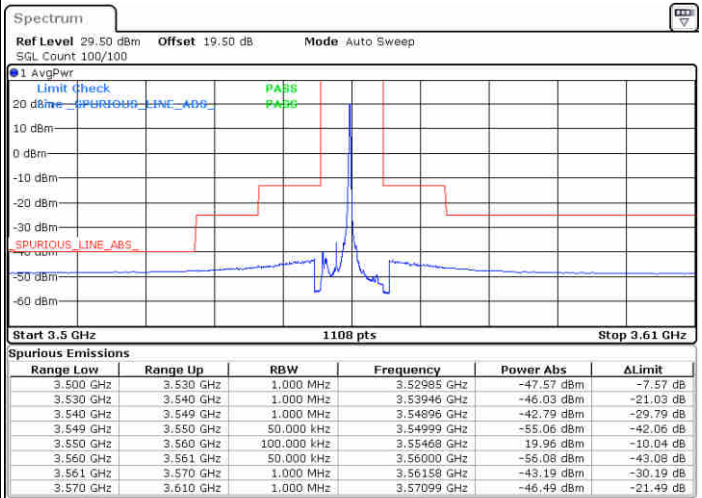
## 64QAM

## Lowest Channel / 1RB0



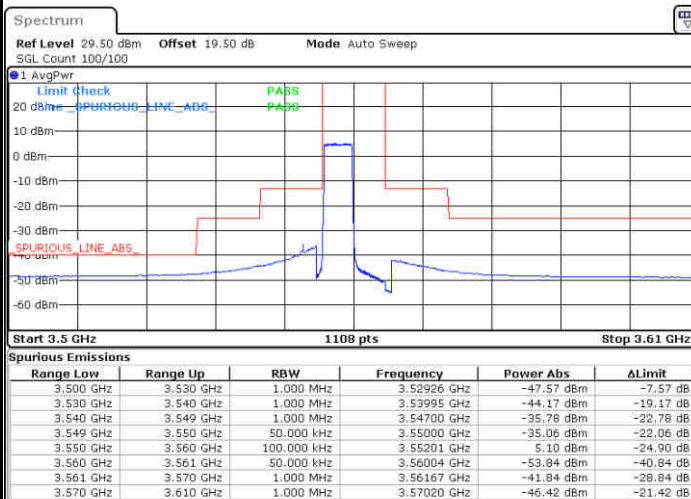
Date: 22.JUL.2020 22:45:11

## Lowest Channel / 1RBmax



Date: 22.JUL.2020 22:58:55

## Lowest Channel / FullRB



Date: 22.JUL.2020 22:42:31

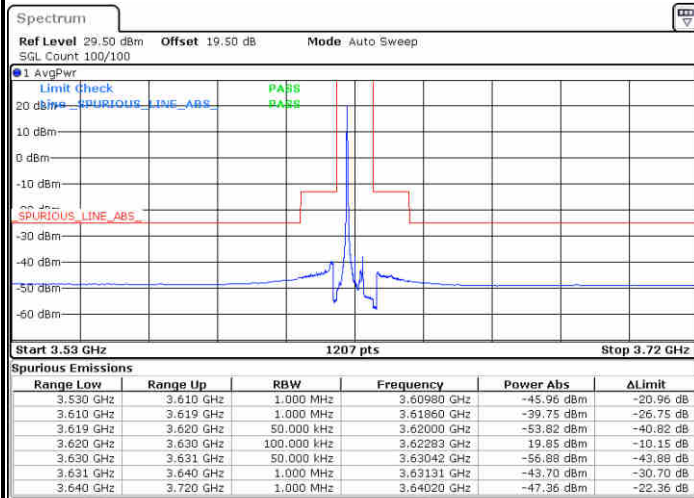
## N/A



## LTE Band 48 / 5MHz

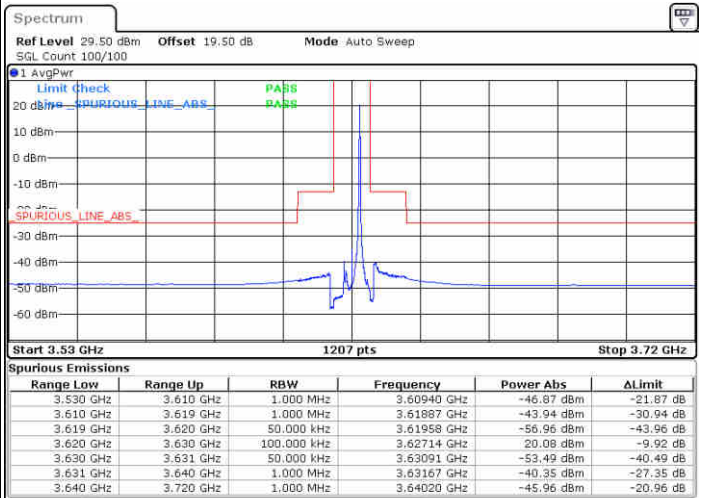
## 64QAM

## Middle Channel / 1RB0



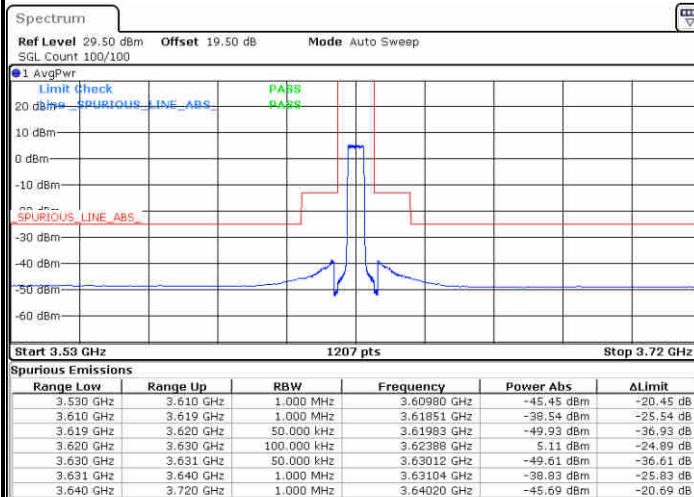
Date: 22.JUL.2020 23:09:16

## Middle Channel / 1RBmax



Date: 22.JUL.2020 23:26:27

## Middle Channel / FullIRB



Date: 22.JUL.2020 23:06:55

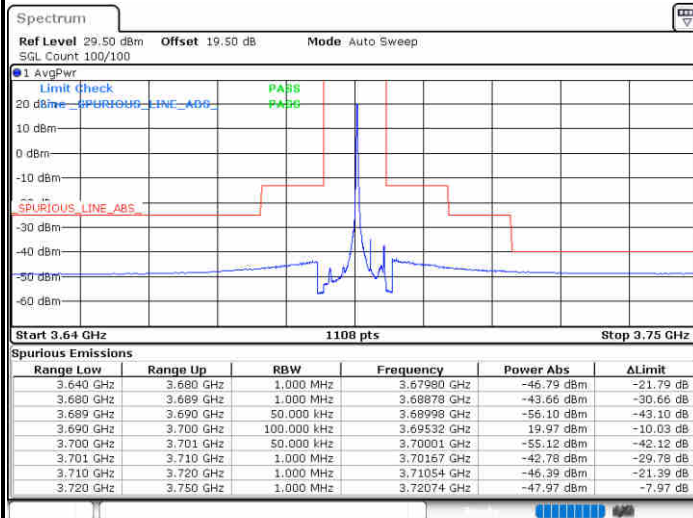
## N/A



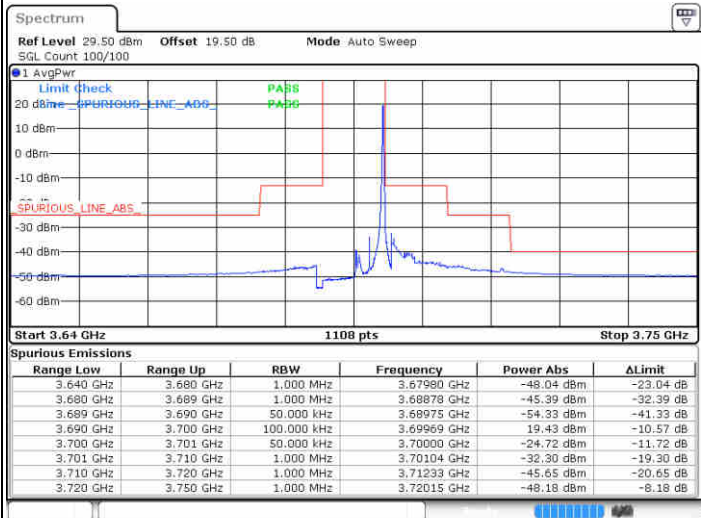
## LTE Band 48 / 5MHz

## 64QAM

## Highest Channel / 1RB0

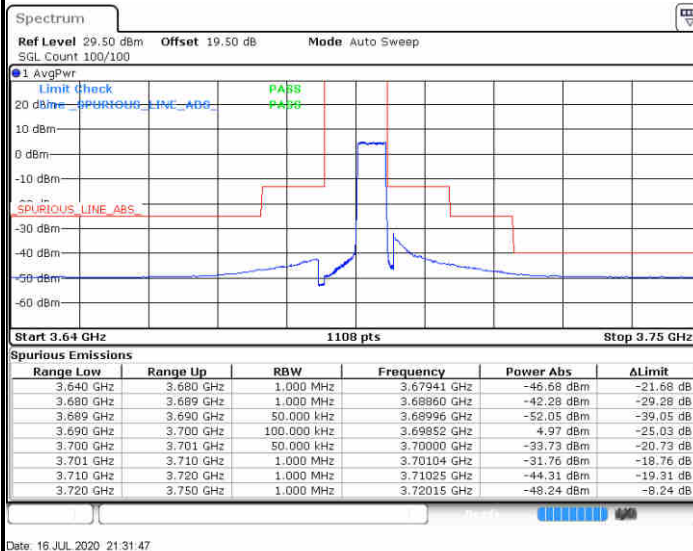


## Highest Channel / 1RBmax



## Highest Channel / FullIRB

## N/A



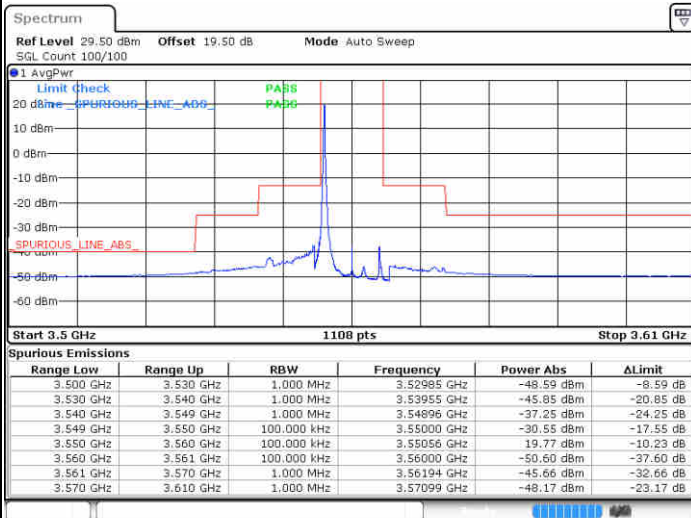


## LTE Band 48 / 10MHz

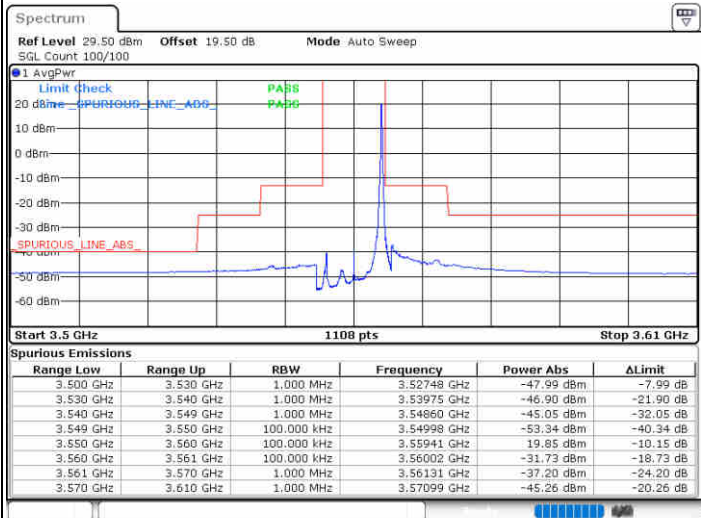
## 64QAM

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



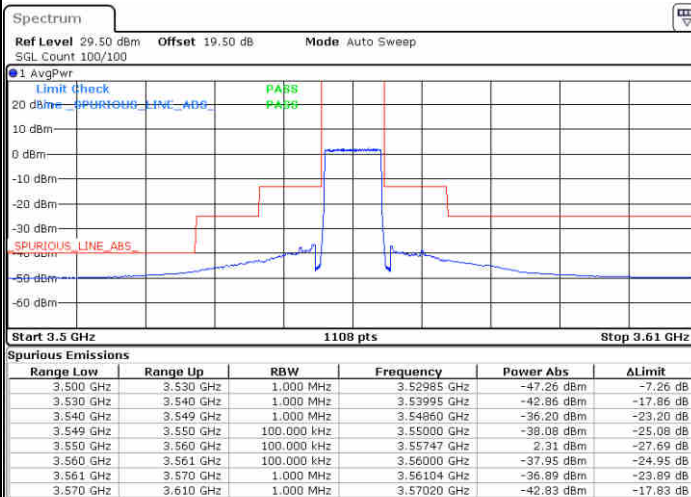
Date: 16 JUL 2020 22:20:34



Date: 23 JUL 2020 00:21:29

## Lowest Channel / FullRB

## N/A



Date: 16 JUL 2020 21:40:33