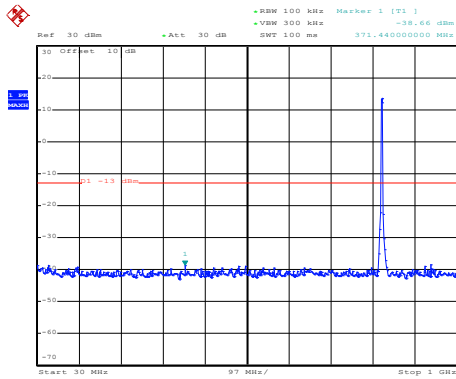
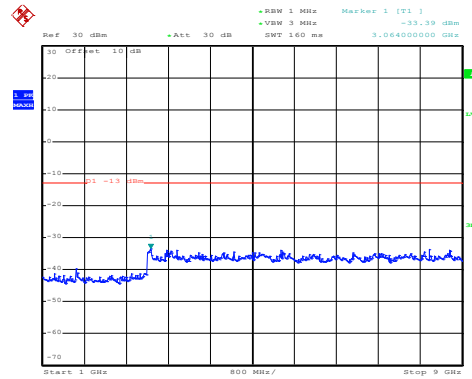


LTE Band 5: 16 QAM & RB Size 25  
 BW: 5MHz  
 Lowest channel



Date: 26.SEP.2019 14:48:54

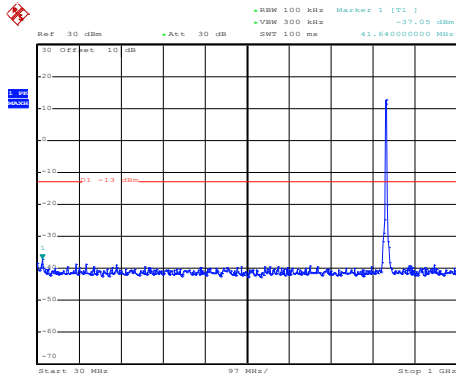
30MHz~1GHz



Date: 26.SEP.2019 14:42:54

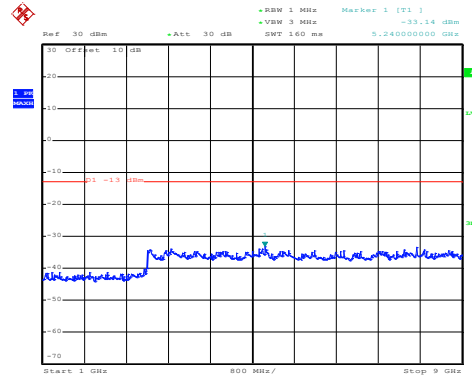
1GHz~9GHz

Middle channel



Date: 26.SEP.2019 14:49:19

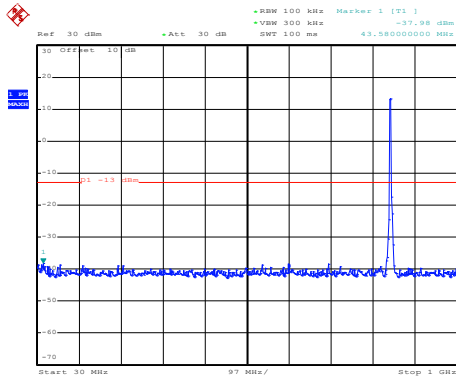
30MHz~1GHz



Date: 26.SEP.2019 14:43:07

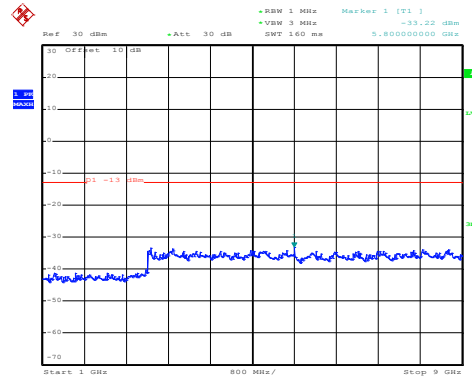
1GHz~9GHz

High channel



Date: 26.SEP.2019 14:50:23

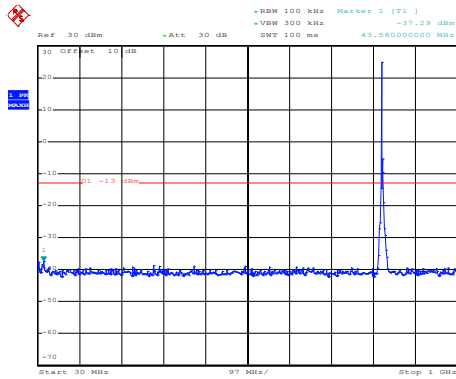
30MHz~1GHz



Date: 26.SEP.2019 14:43:52

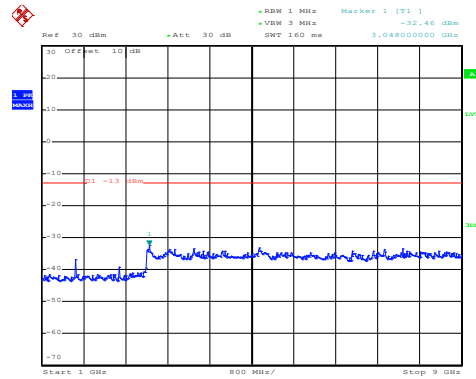
1GHz~9GHz

## LTE Band 5: QPSK & RB Size 1 BW: 5MHz Lowest channel



Date: 26.SEP.2019 14:48:27

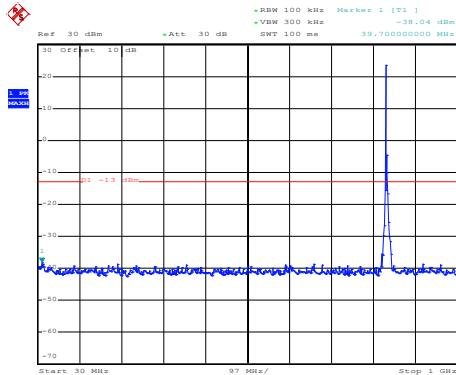
30MHz~1GHz



Date: 26.SEP.2019 14:42:34

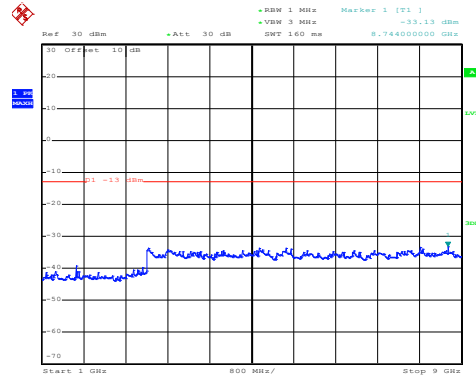
1GHz~9GHz

## Middle channel



Date: 26.SEP.2019 14:49:30

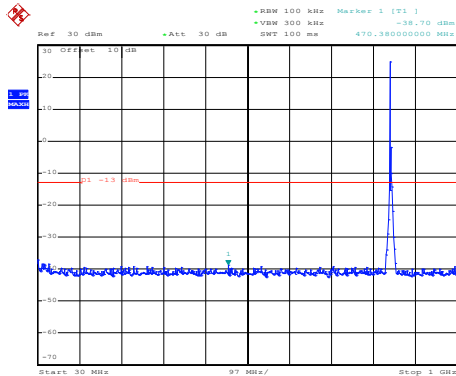
30MHz~1GHz



Date: 26.SEP.2019 14:43:16

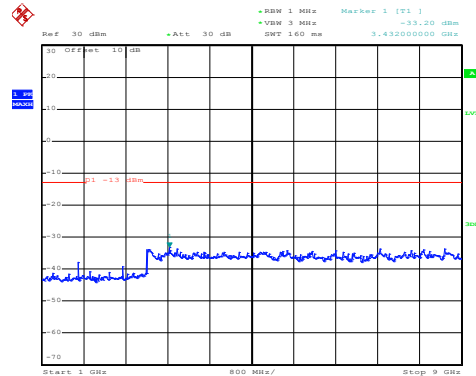
1GHz~9GHz

## High channel



Date: 26.SEP.2019 14:49:57

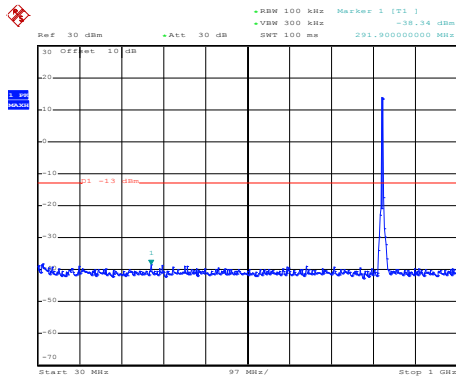
30MHz~1GHz



Date: 26.SEP.2019 14:43:31

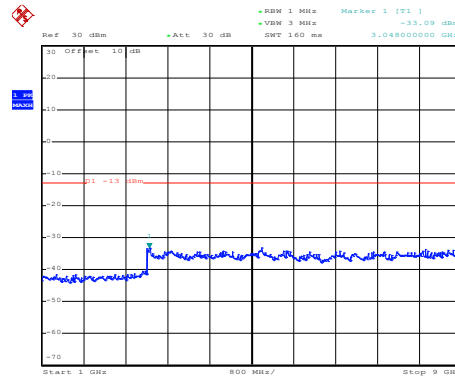
1GHz~9GHz

LTE Band 5: QPSK & RB Size 25  
 BW: 5MHz  
 Lowest channel



Date: 26.SEP.2019 14:48:45

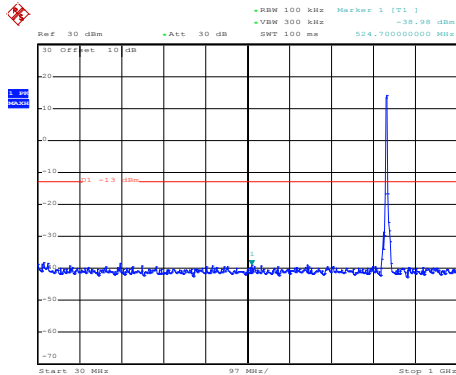
30MHz~1GHz



Date: 26.SEP.2019 14:42:49

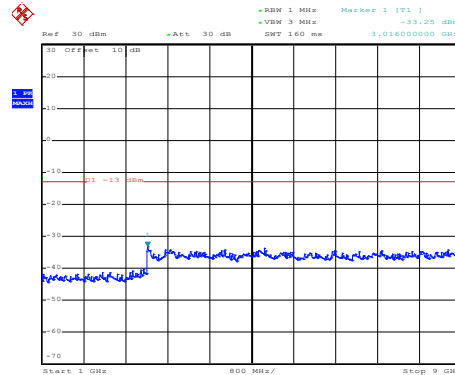
1GHz~9GHz

Middle channel



Date: 26.SEP.2019 14:49:09

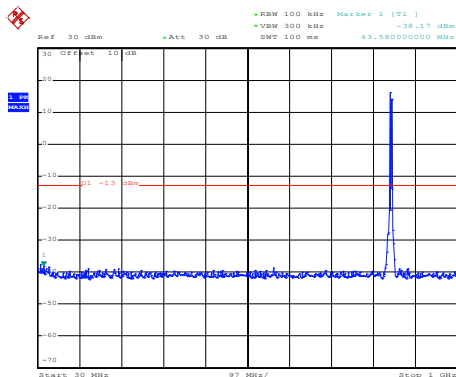
30MHz~1GHz



Date: 26.SEP.2019 14:43:01

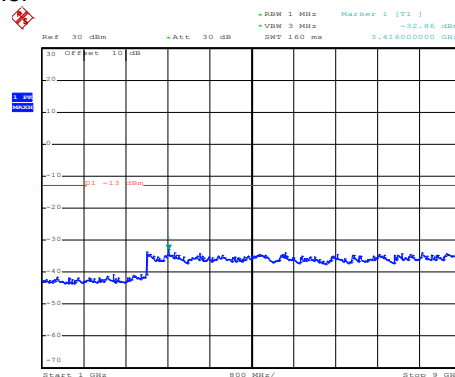
1GHz~9GHz

High channel



Date: 26.SEP.2019 14:50:16

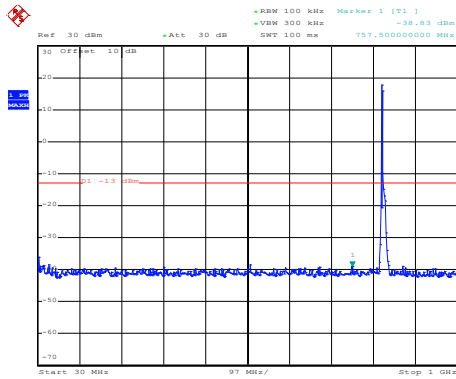
30MHz~1GHz



Date: 26.SEP.2019 14:43:46

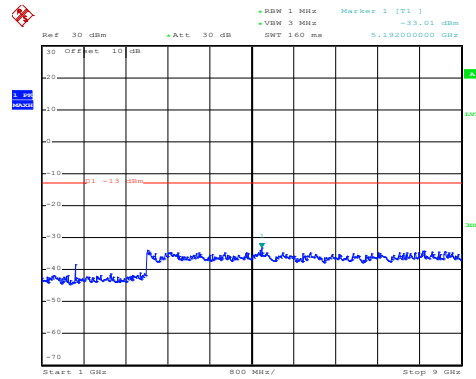
1GHz~9GHz

## LTE Band 5: 16 QAM & RB Size 1 BW: 10MHz Lowest channel



Date: 26.SEP.2019 14:47:59

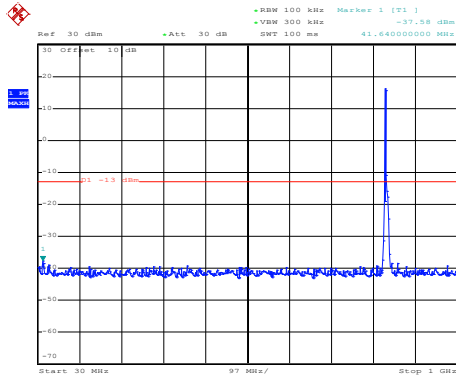
30MHz~1GHz



Date: 26.SEP.2019 14:44:16

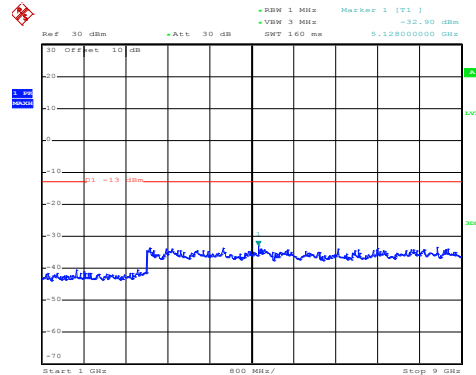
1GHz~9GHz

## Middle channel



Date: 26.SEP.2019 14:46:47

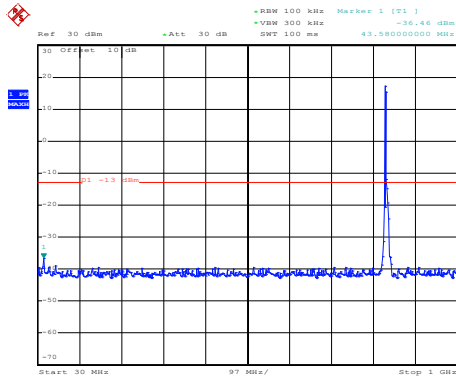
30MHz~1GHz



Date: 26.SEP.2019 14:45:00

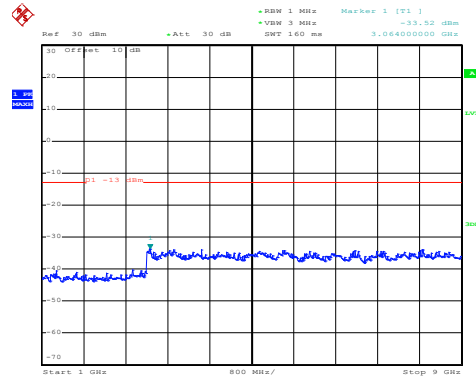
1GHz~9GHz

## High channel



Date: 26.SEP.2019 14:46:27

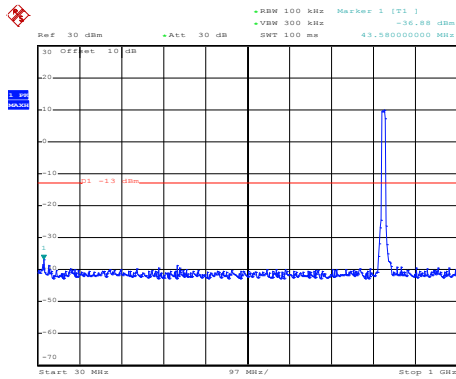
30MHz~1GHz



Date: 26.SEP.2019 14:45:14

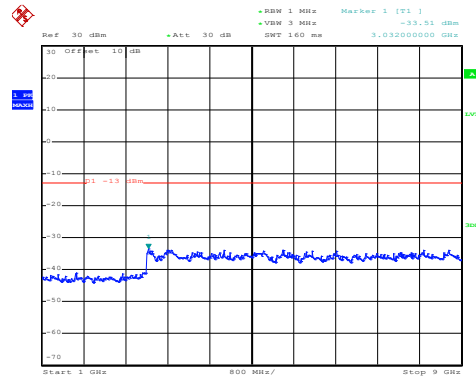
1GHz~9GHz

LTE Band 5: 16 QAM & RB Size 50  
 BW: 10MHz  
 Lowest channel



Date: 26.SEP.2019 14:47:33

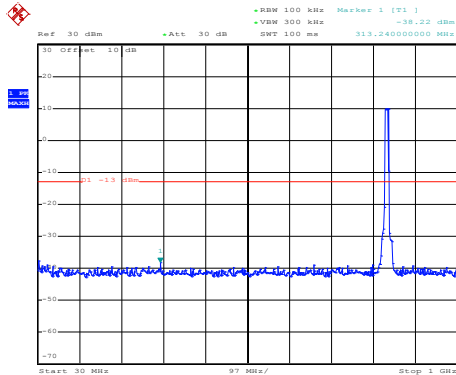
30MHz~1GHz



Date: 26.SEP.2019 14:44:31

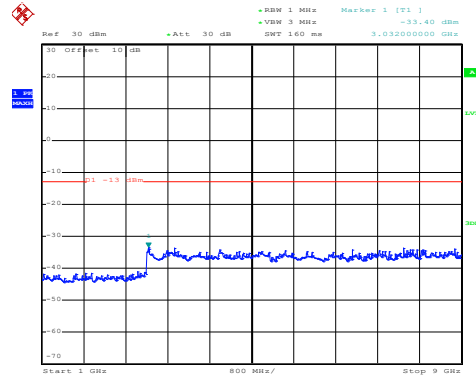
1GHz~9GHz

Middle channel



Date: 26.SEP.2019 14:47:10

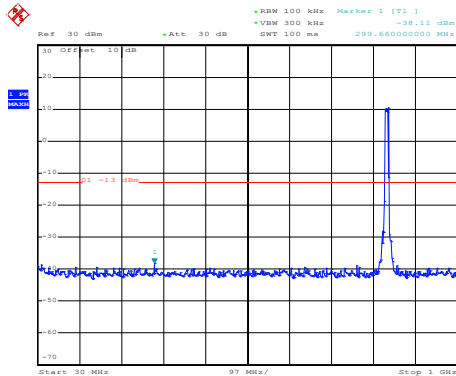
30MHz~1GHz



Date: 26.SEP.2019 14:44:45

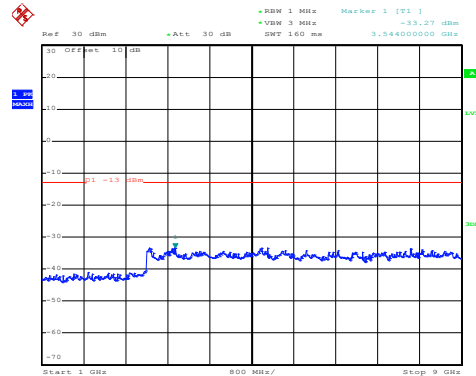
1GHz~9GHz

High channel



Date: 26.SEP.2019 14:46:05

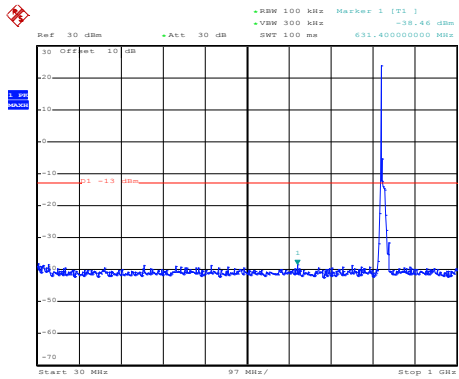
30MHz~1GHz



Date: 26.SEP.2019 14:45:32

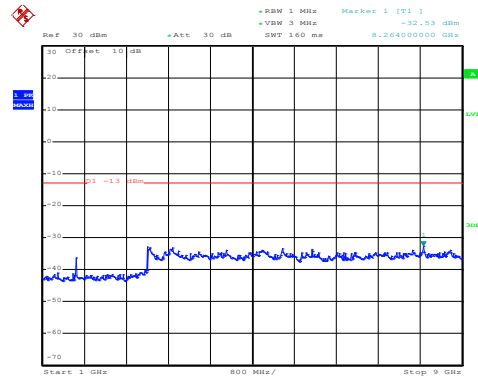
1GHz~9GHz

LTE Band 5: QPSK & RB Size 1  
 BW: 10MHz  
 Lowest channel



Date: 26.SEP.2019 14:47:47

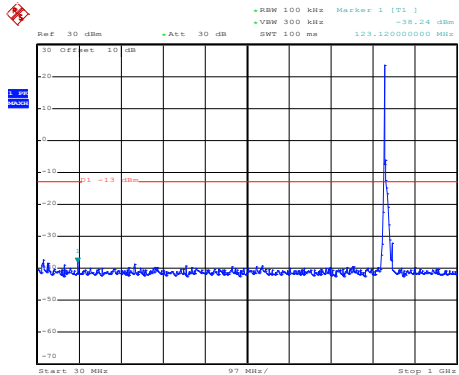
30MHz~1GHz



Date: 26.SEP.2019 14:44:11

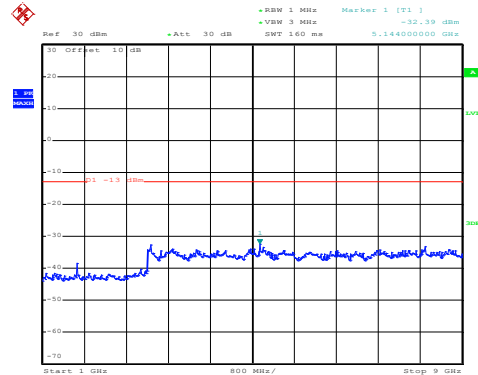
1GHz~9GHz

Middle channel



Date: 26.SEP.2019 14:46:40

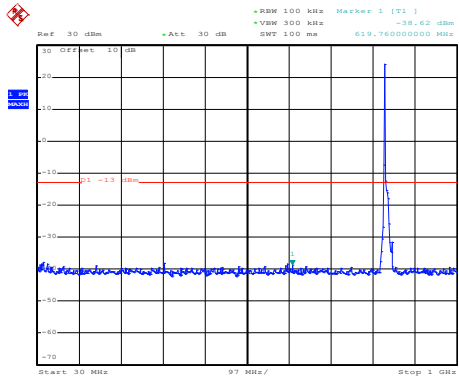
30MHz~1GHz



Date: 26.SEP.2019 14:44:53

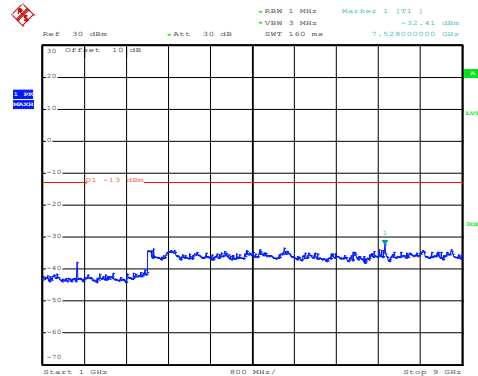
1GHz~9GHz

High channel



Date: 26.SEP.2019 14:46:19

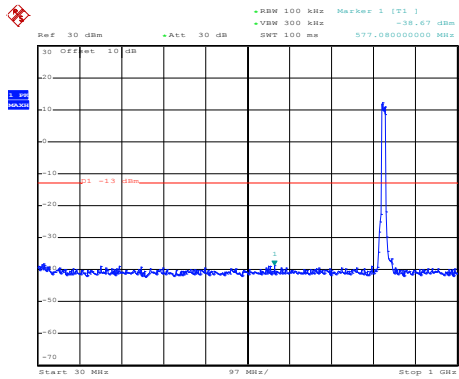
30MHz~1GHz



Date: 26.SEP.2019 14:45:07

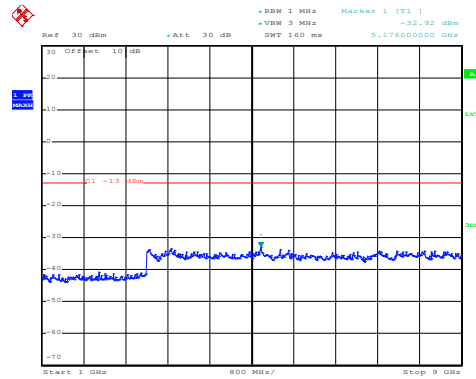
1GHz~9GHz

### LTE Band 5: QPSK & RB Size 50 BW: 10MHz Lowest channel



Date: 26.SEP.2019 14:47:25

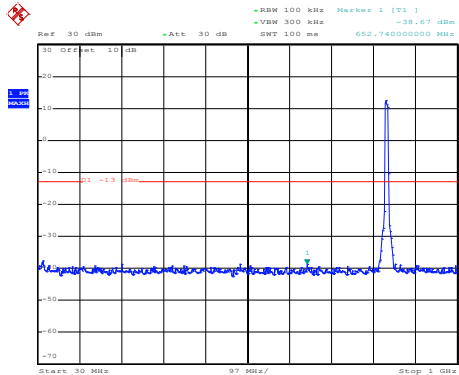
30MHz~1GHz



Date: 26.SEP.2019 14:44:25

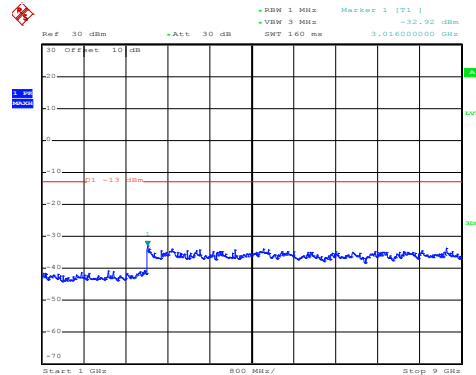
1GHz~9GHz

### Middle channel



Date: 26.SEP.2019 14:47:01

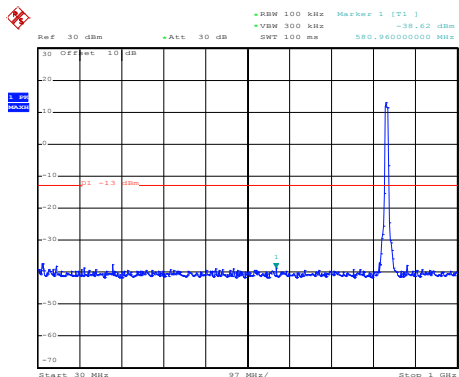
30MHz~1GHz



Date: 26.SEP.2019 14:44:40

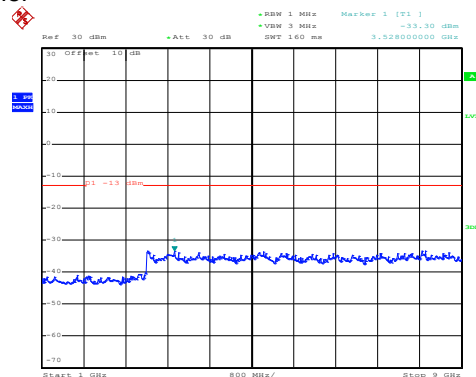
1GHz~9GHz

### High channel



Date: 26.SEP.2019 14:45:57

30MHz~1GHz

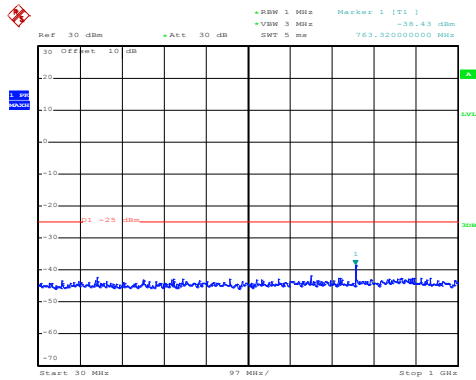


Date: 26.SEP.2019 14:45:23

1GHz~9GHz

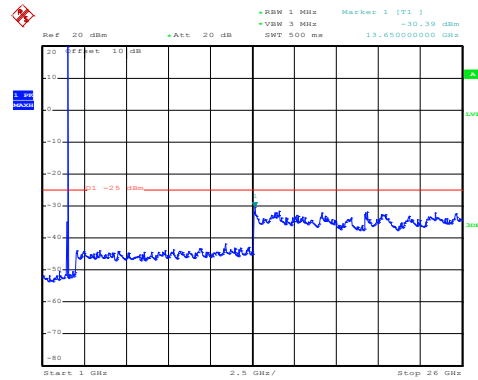
LTE Band 7 part:

LTE Band 7: 16 QAM & RB Size 1  
 BW: 5MHz  
 Lowest channel



Date: 26.SEP.2019 15:14:00

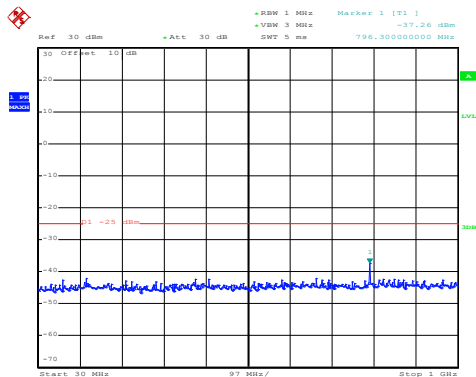
30MHz~1GHz



Date: 26.SEP.2019 15:32:44

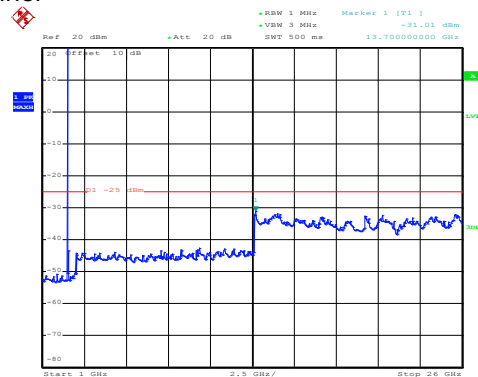
1GHz~25GHz

Middle channel



Date: 26.SEP.2019 15:14:18

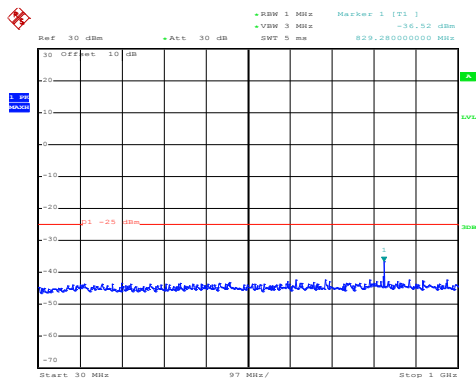
30MHz~1GHz



Date: 26.SEP.2019 15:34:17

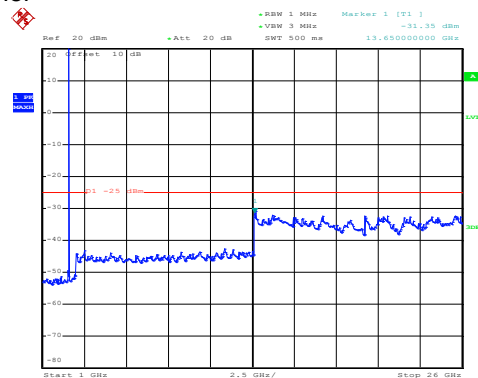
1GHz~25GHz

High channel



Date: 26.SEP.2019 15:15:16

30MHz~1GHz

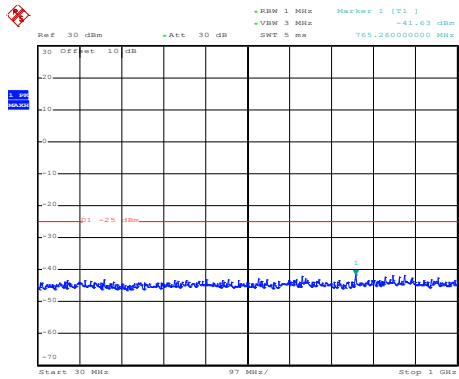


Date: 26.SEP.2019 15:34:37

1GHz~25GHz

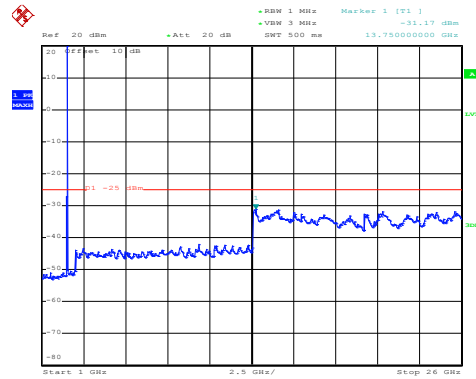


LTE Band 7: 16 QAM & RB Size 25  
 BW: 5MHz  
 Lowest channel



Date: 26.SEP.2019 15:13:42

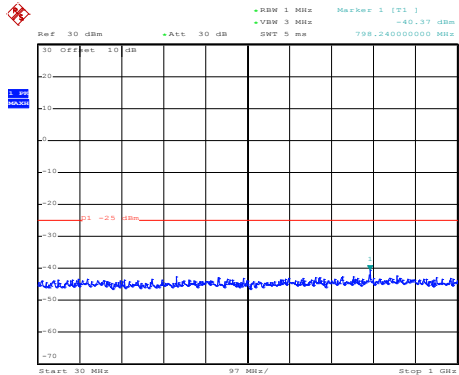
30MHz~1GHz



Date: 26.SEP.2019 15:33:09

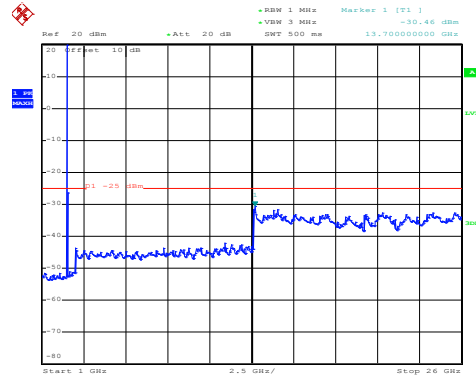
1GHz~25GHz

Middle channel



Date: 26.SEP.2019 15:14:33

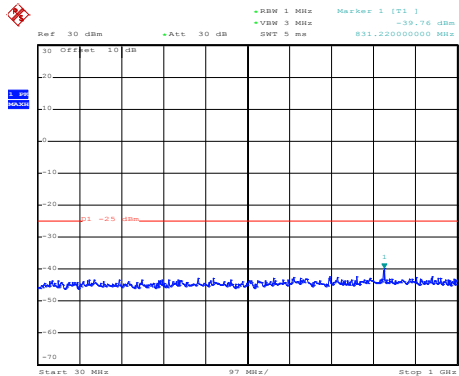
30MHz~1GHz



Date: 26.SEP.2019 15:33:44

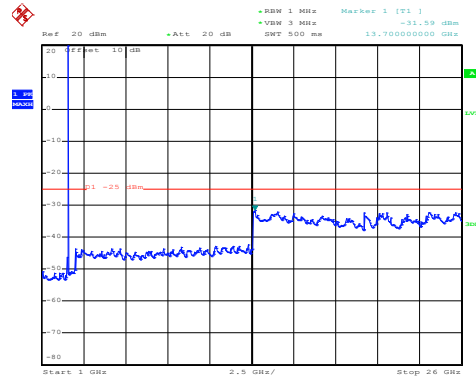
1GHz~25GHz

High channel



Date: 26.SEP.2019 15:14:59

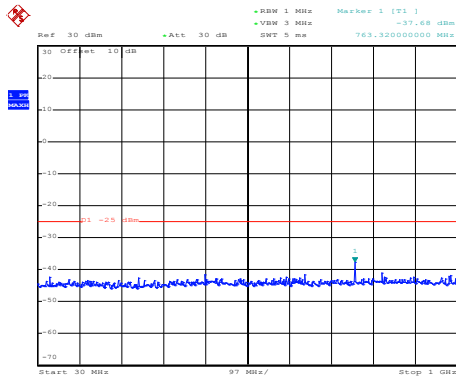
30MHz~1GHz



Date: 26.SEP.2019 15:35:03

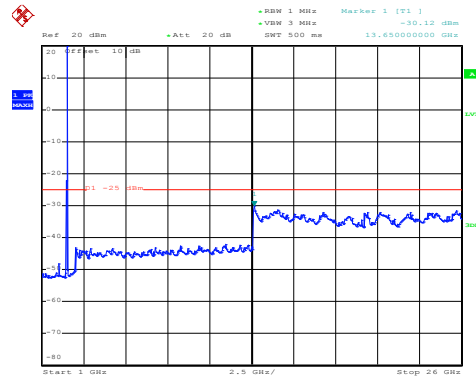
1GHz~25GHz

## LTE Band 7: QPSK & RB Size 1 BW: 5MHz Lowest channel



Date: 26.SEP.2019 15:13:52

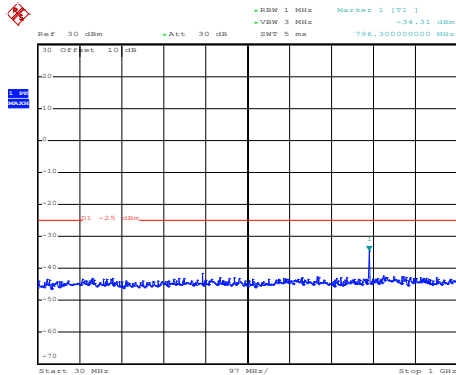
30MHz~1GHz



Date: 26.SEP.2019 15:32:36

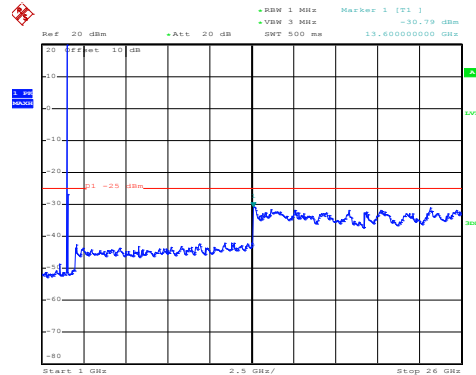
1GHz~25GHz

## Middle channel



Date: 26.SEP.2019 15:14:12

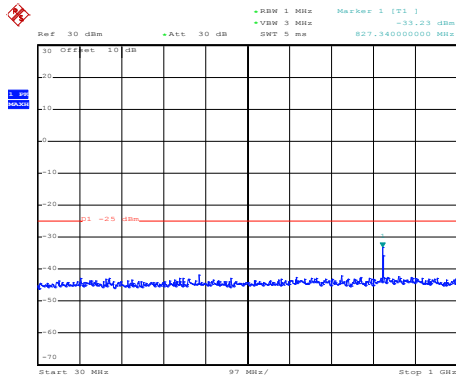
30MHz~1GHz



Date: 26.SEP.2019 15:34:09

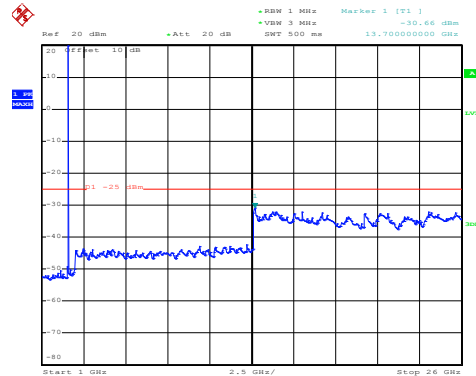
1GHz~25GHz

## High channel



Date: 26.SEP.2019 15:15:08

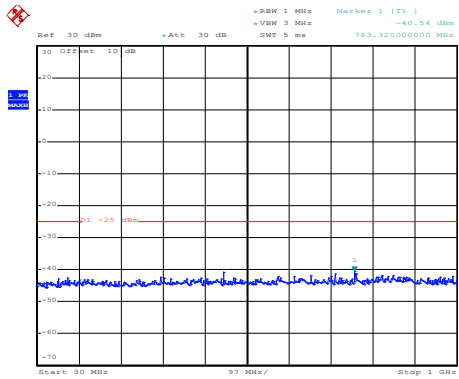
30MHz~1GHz



Date: 26.SEP.2019 15:34:29

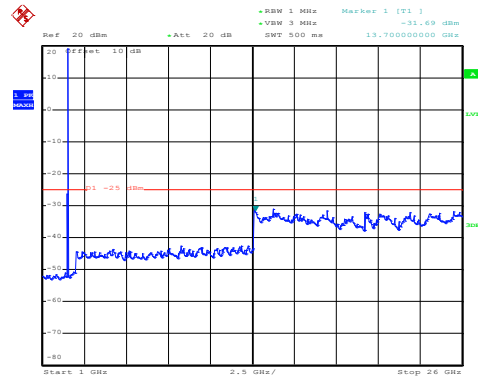
1GHz~25GHz

LTE Band 7: QPSK & RB Size 25  
 BW: 5MHz  
 Lowest channel



Date: 26.SEP.2019 15:13:35

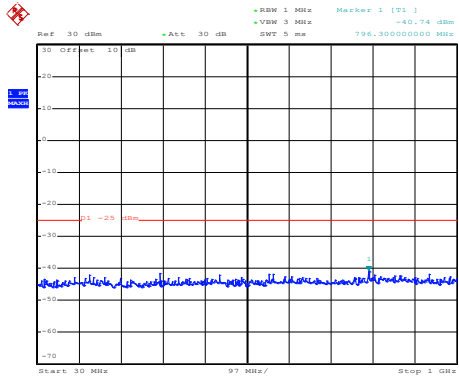
30MHz~1GHz



Date: 26.SEP.2019 15:32:54

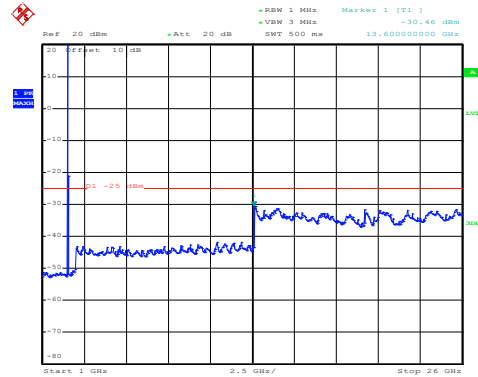
1GHz~25GHz

Middle channel



Date: 26.SEP.2019 15:14:27

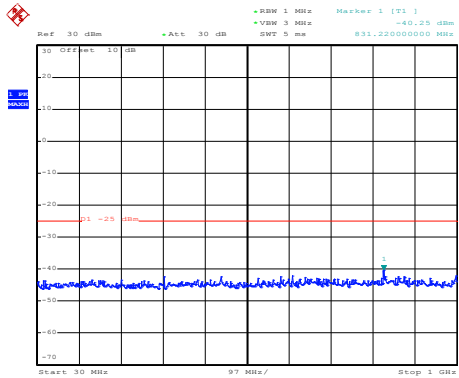
30MHz~1GHz



Date: 26.SEP.2019 15:33:37

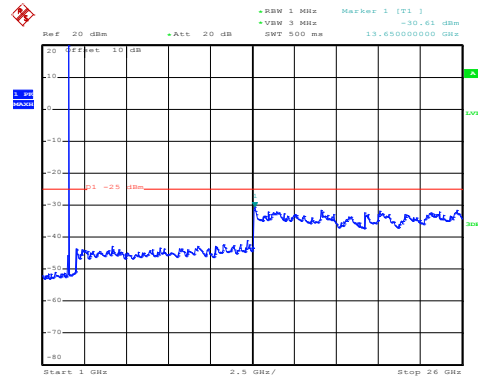
1GHz~25GHz

High channel



Date: 26.SEP.2019 15:14:52

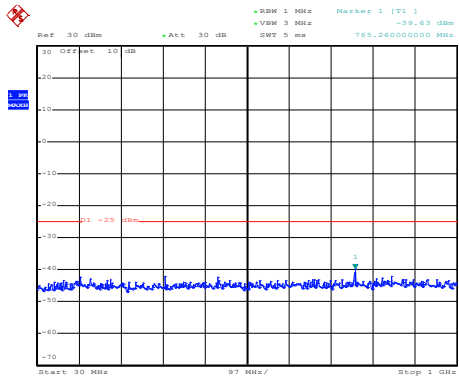
30MHz~1GHz



Date: 26.SEP.2019 15:34:53

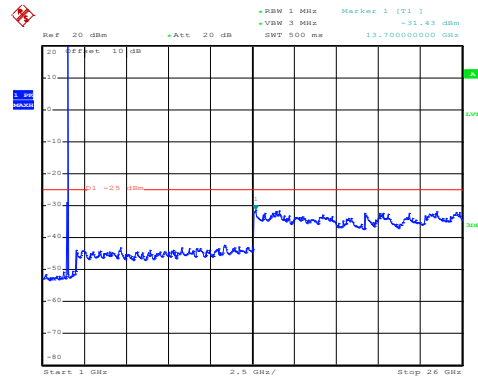
1GHz~25GHz

## LTE Band 7: 16 QAM & RB Size 1 BW: 10MHz Lowest channel



Date: 26.SEP.2019 15:15:49

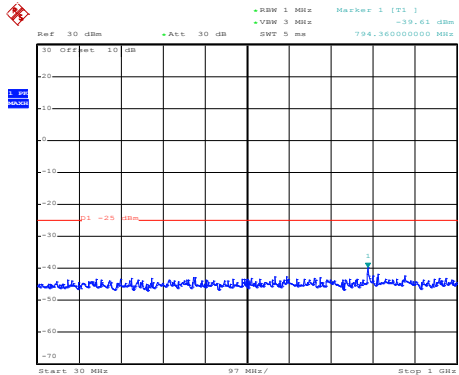
30MHz~1GHz



Date: 26.SEP.2019 15:29:48

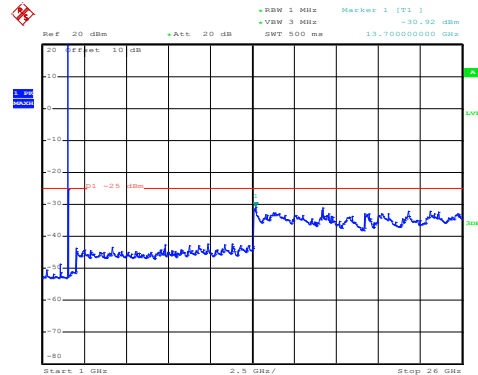
1GHz~25GHz

## Middle channel



Date: 26.SEP.2019 15:16:38

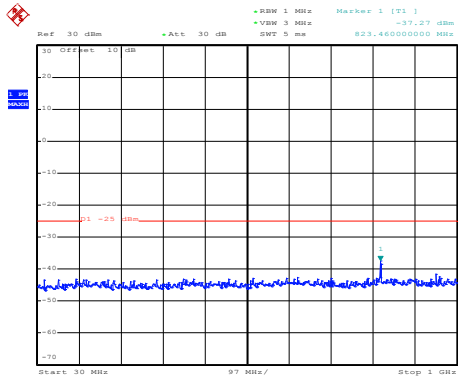
30MHz~1GHz



Date: 26.SEP.2019 15:31:13

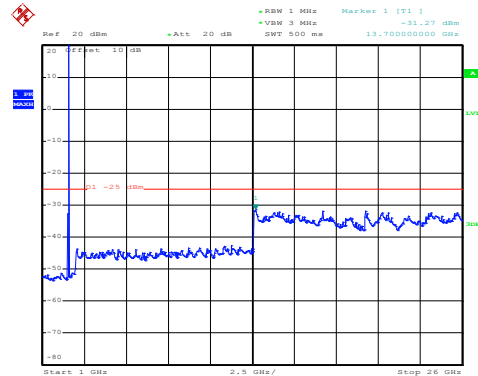
1GHz~25GHz

## High channel



Date: 26.SEP.2019 15:16:54

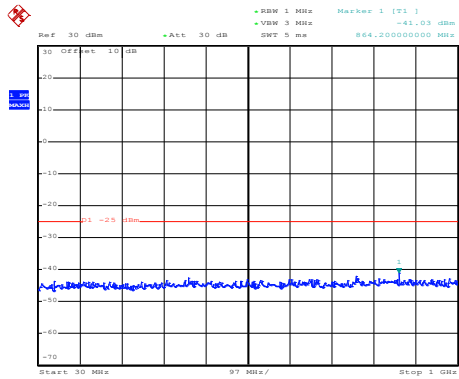
30MHz~1GHz



Date: 26.SEP.2019 15:31:36

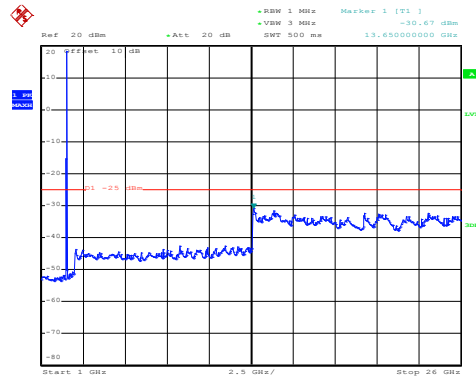
1GHz~25GHz

## LTE Band 7: 16 QAM & RB Size 50 BW: 10MHz Lowest channel



Date: 26.SEP.2019 15:16:10

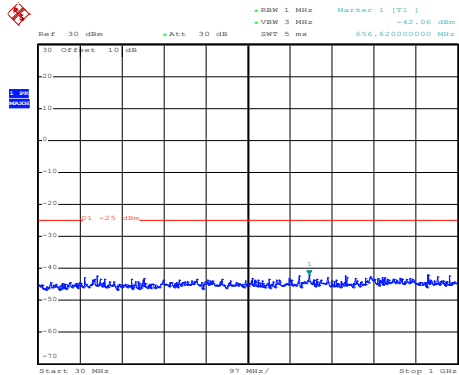
30MHz~1GHz



Date: 26.SEP.2019 15:30:07

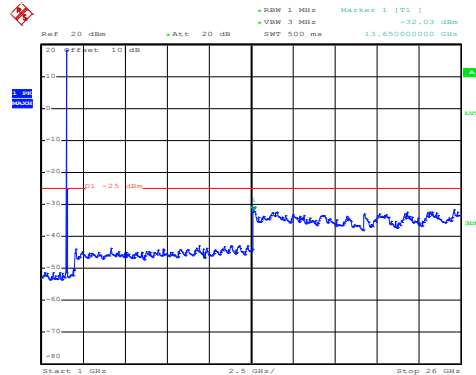
1GHz~25GHz

## Middle channel



Date: 26.SEP.2019 15:16:25

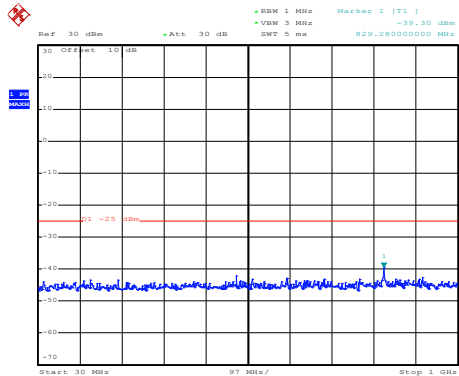
30MHz~1GHz



Date: 26.SEP.2019 15:30:38

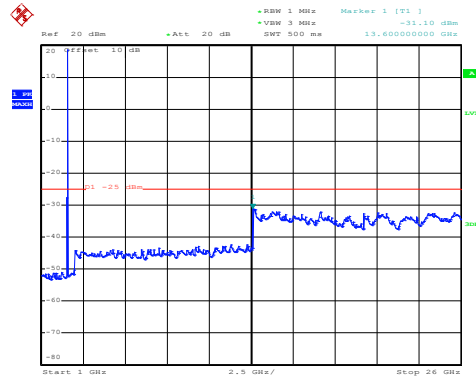
1GHz~25GHz

## High channel



Date: 26.SEP.2019 15:17:34

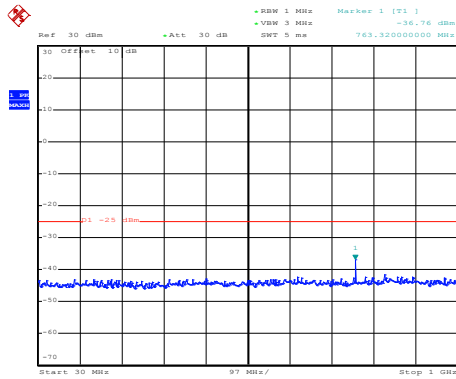
30MHz~1GHz



Date: 26.SEP.2019 15:31:59

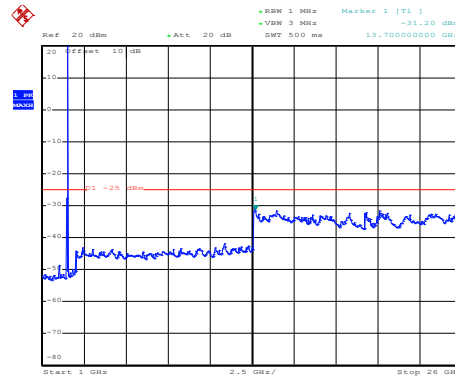
1GHz~25GHz

## LTE Band 7: QPSK & RB Size 1 BW: 10MHz Lowest channel



Date: 26.SEP.2019 15:15:44

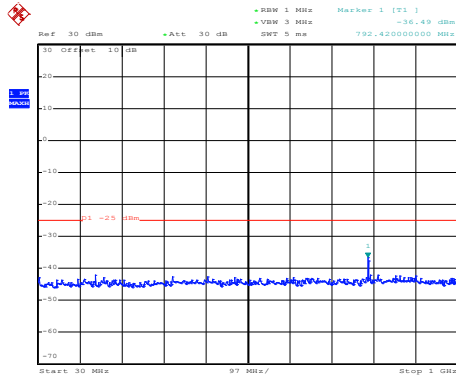
30MHz~1GHz



Date: 26.SEP.2019 15:29:37

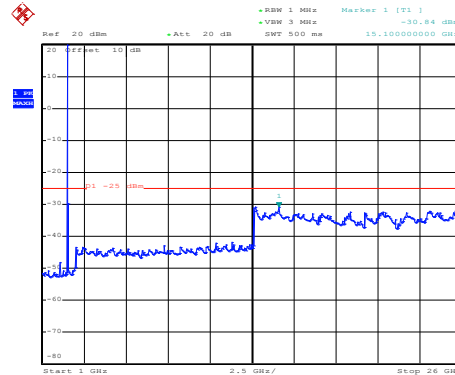
1GHz~25GHz

## Middle channel



Date: 26.SEP.2019 15:16:33

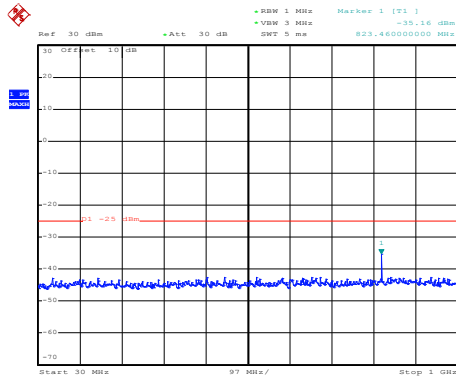
30MHz~1GHz



Date: 26.SEP.2019 15:31:06

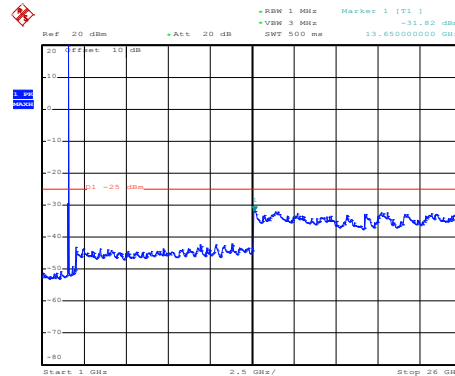
1GHz~25GHz

## High channel



Date: 26.SEP.2019 15:16:49

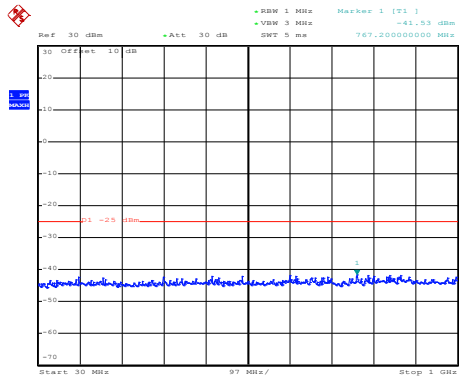
30MHz~1GHz



Date: 26.SEP.2019 15:31:28

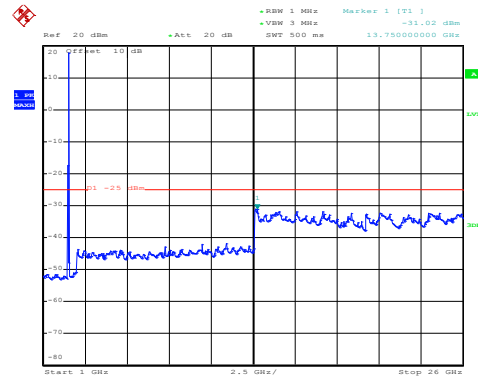
1GHz~25GHz

## LTE Band 7: QPSK & RB Size 50 BW: 10MHz Lowest channel



Date: 26.SEP.2019 15:16:03

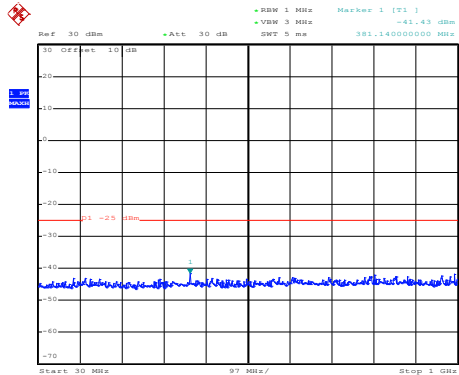
30MHz~1GHz



Date: 26.SEP.2019 15:30:00

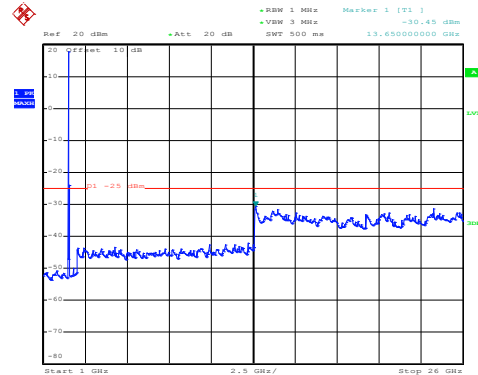
1GHz~25GHz

## Middle channel



Date: 26.SEP.2019 15:16:20

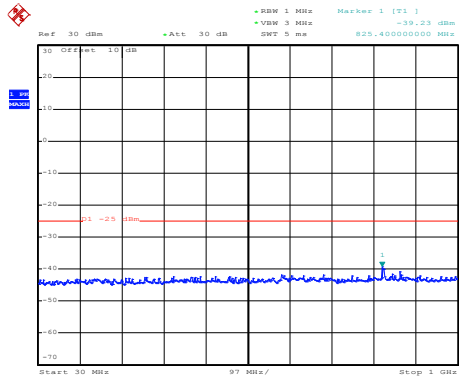
30MHz~1GHz



Date: 26.SEP.2019 15:30:31

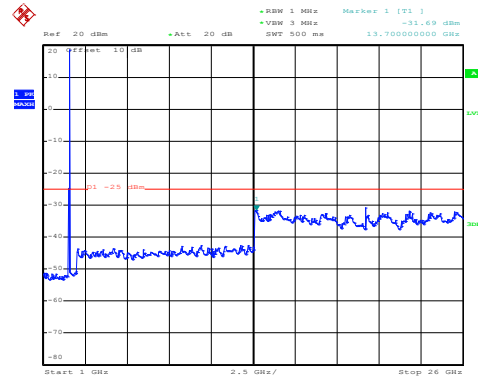
1GHz~25GHz

## High channel



Date: 26.SEP.2019 15:17:29

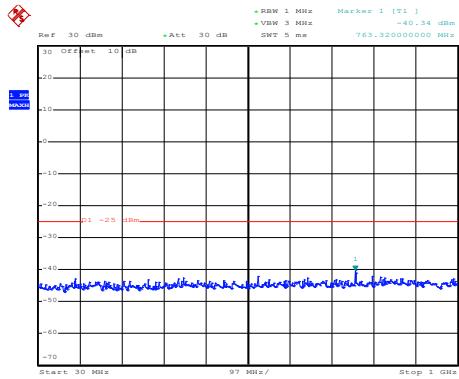
30MHz~1GHz



Date: 26.SEP.2019 15:31:48

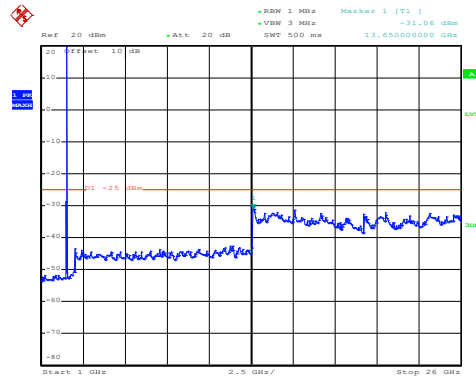
1GHz~25GHz

## LTE Band 7: 16 QAM & RB Size 1 BW: 15MHz Lowest channel



Date: 26.SEP.2019 15:19:11

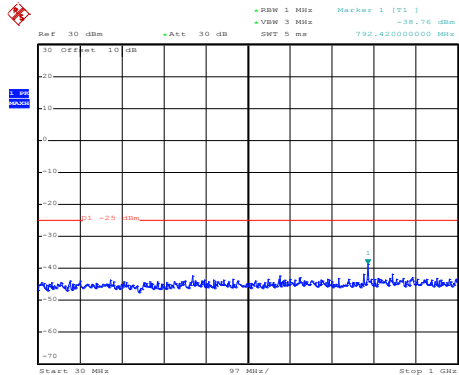
30MHz~1GHz



Date: 26.SEP.2019 15:26:27

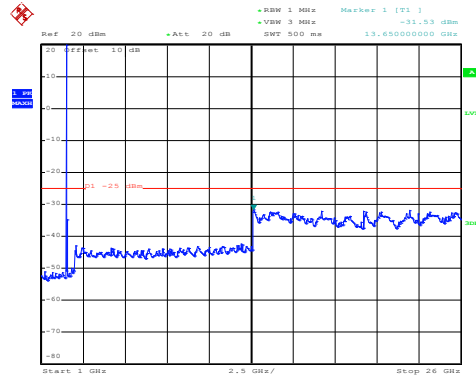
1GHz~25GHz

## Middle channel



Date: 26.SEP.2019 15:20:01

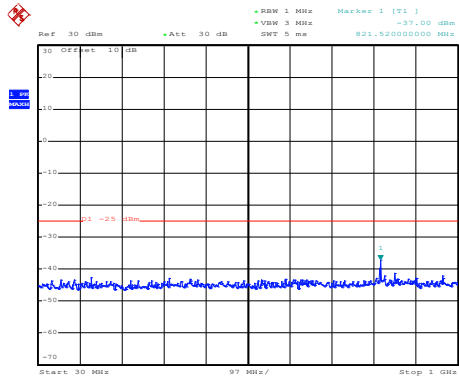
30MHz~1GHz



Date: 26.SEP.2019 15:27:48

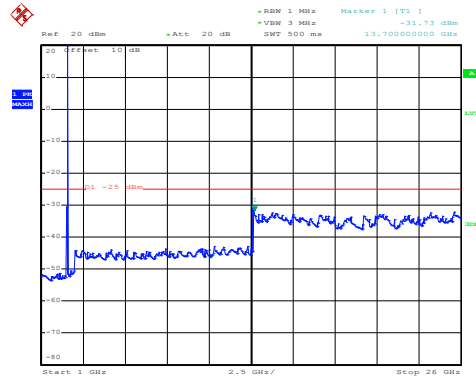
1GHz~25GHz

## High channel



Date: 26.SEP.2019 15:20:19

30MHz~1GHz

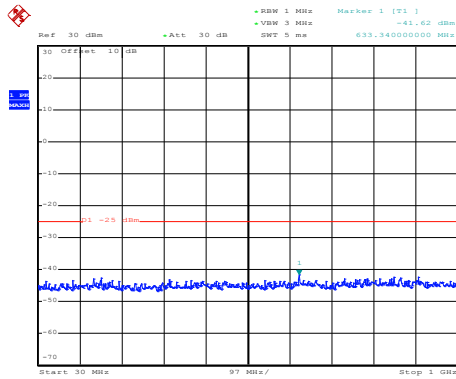


Date: 26.SEP.2019 15:28:18

1GHz~25GHz

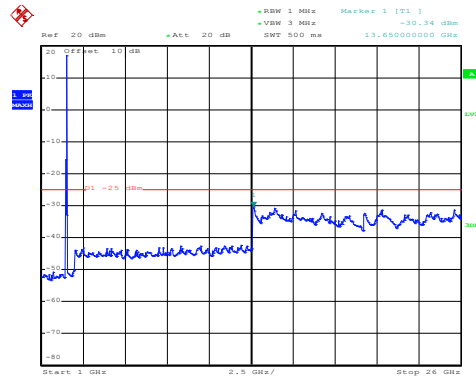


## LTE Band 7: 16 QAM & RB Size 75 BW: 15MHz Lowest channel



Date: 26.SEP.2019 15:19:25

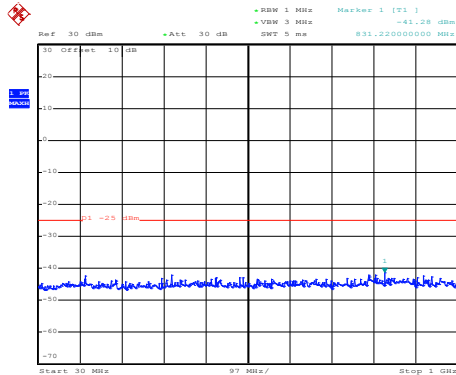
30MHz~1GHz



Date: 26.SEP.2019 15:26:53

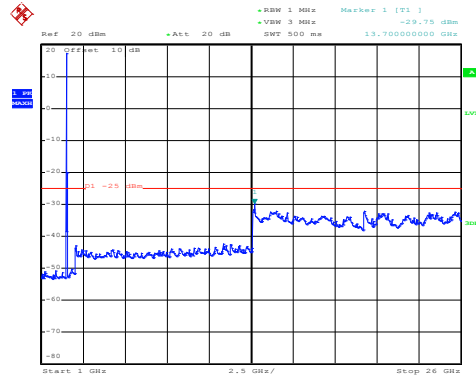
1GHz~25GHz

## Middle channel



Date: 26.SEP.2019 15:19:46

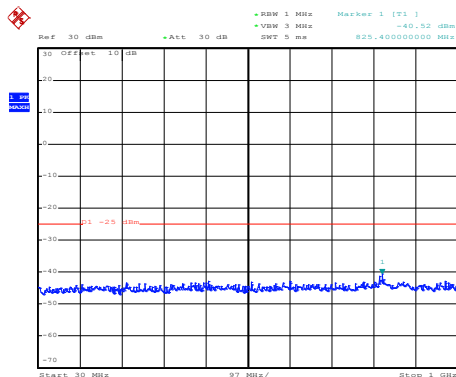
30MHz~1GHz



Date: 26.SEP.2019 15:27:11

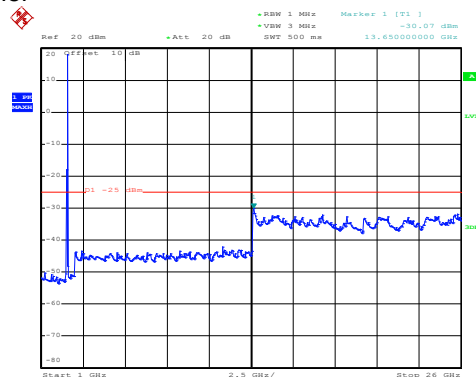
1GHz~25GHz

## High channel



Date: 26.SEP.2019 15:20:34

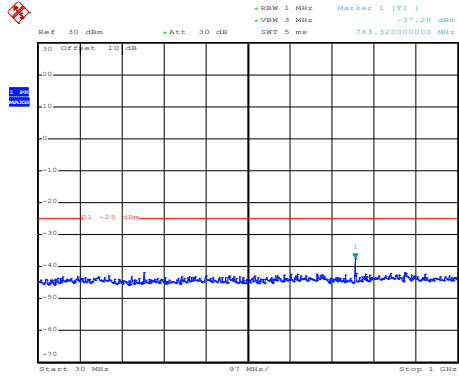
30MHz~1GHz



Date: 26.SEP.2019 15:28:53

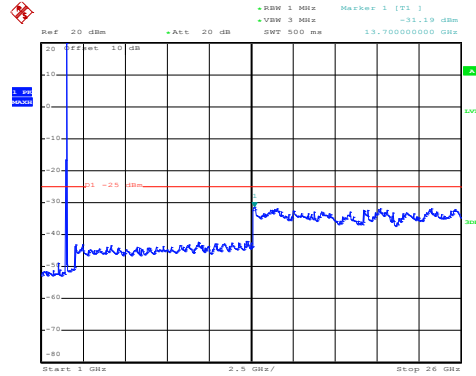
1GHz~25GHz

## LTE Band 7: QPSK & RB Size 1 BW: 15MHz Lowest channel



Date: 26.SEP.2019 15:19:04

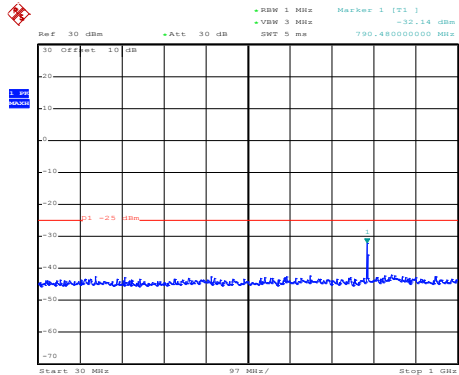
30MHz~1GHz



Date: 26.SEP.2019 15:26:19

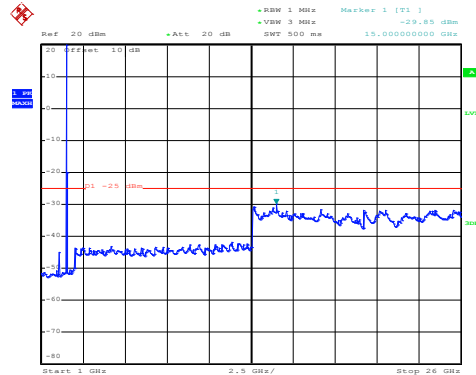
1GHz~25GHz

## Middle channel



Date: 26.SEP.2019 15:19:56

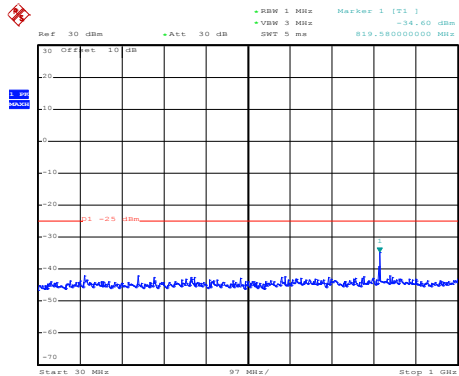
30MHz~1GHz



Date: 26.SEP.2019 15:27:38

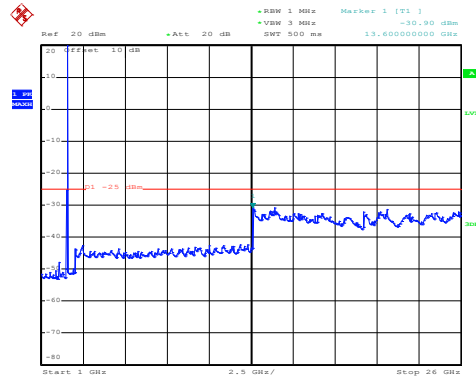
1GHz~25GHz

## High channel



Date: 26.SEP.2019 15:20:13

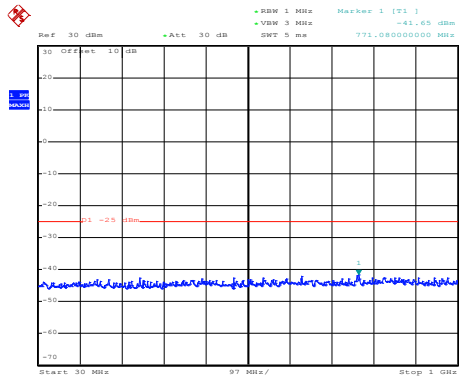
30MHz~1GHz



Date: 26.SEP.2019 15:28:10

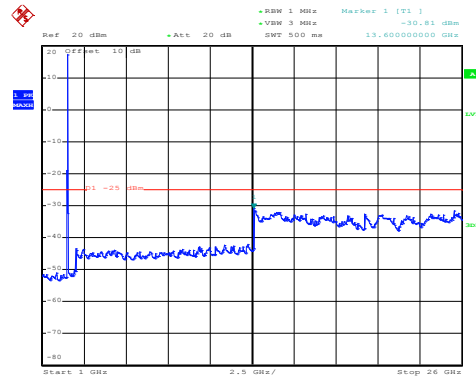
1GHz~25GHz

## LTE Band 7: QPSK & RB Size 75 BW: 15MHz Lowest channel



Date: 26.SEP.2019 15:19:19

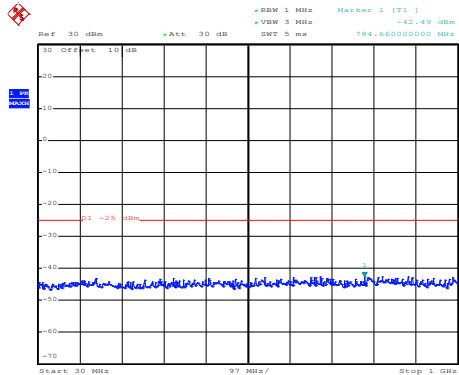
30MHz~1GHz



Date: 26.SEP.2019 15:26:38

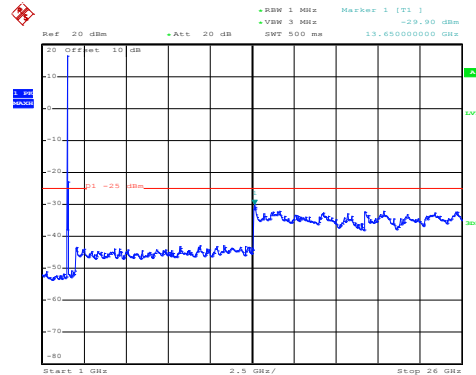
1GHz~25GHz

## Middle channel



Date: 26.SEP.2019 15:19:40

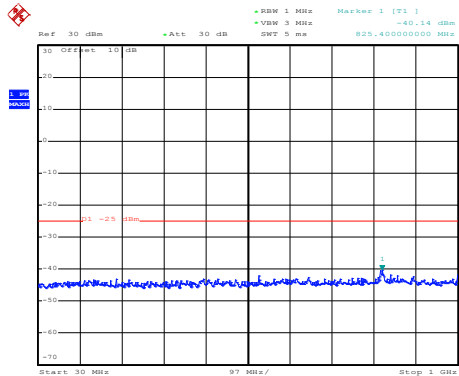
30MHz~1GHz



Date: 26.SEP.2019 15:27:03

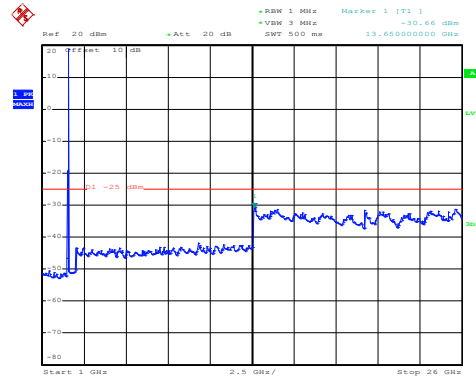
1GHz~25GHz

## High channel



Date: 26.SEP.2019 15:20:28

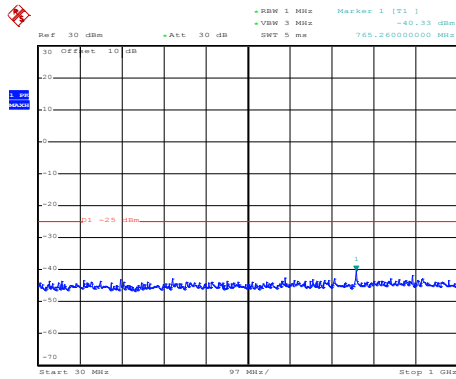
30MHz~1GHz



Date: 26.SEP.2019 15:28:44

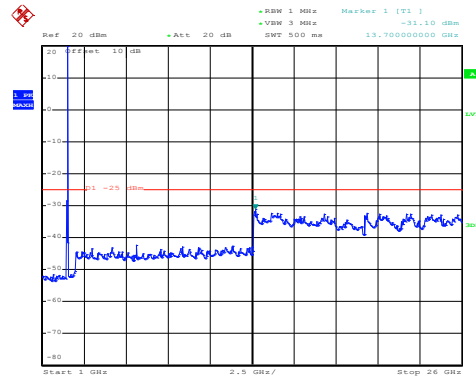
1GHz~25GHz

## LTE Band 7: 16 QAM & RB Size 1 BW: 20MHz Lowest channel



Date: 26.SEP.2019 15:21:14

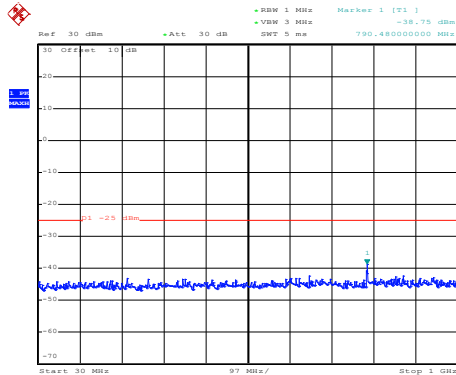
30MHz~1GHz



Date: 26.SEP.2019 15:25:51

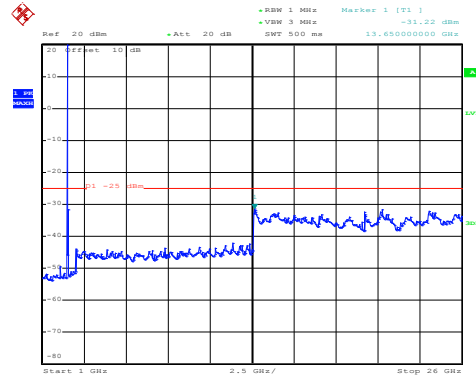
1GHz~25GHz

## Middle channel



Date: 26.SEP.2019 15:21:57

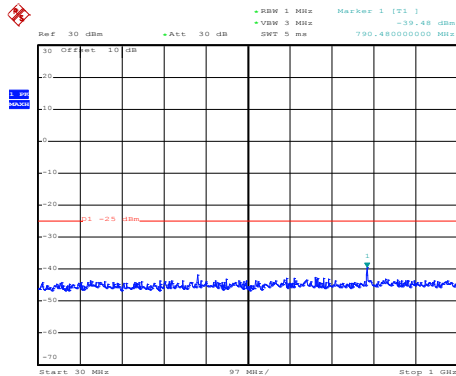
30MHz~1GHz



Date: 26.SEP.2019 15:24:36

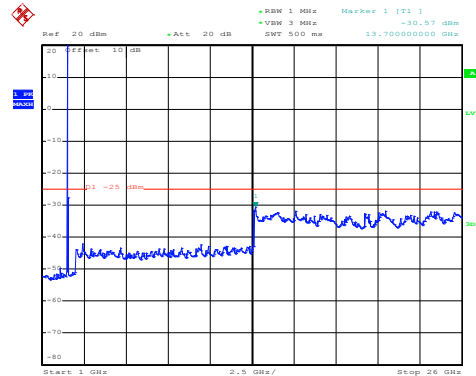
1GHz~25GHz

## High channel



Date: 26.SEP.2019 15:22:25

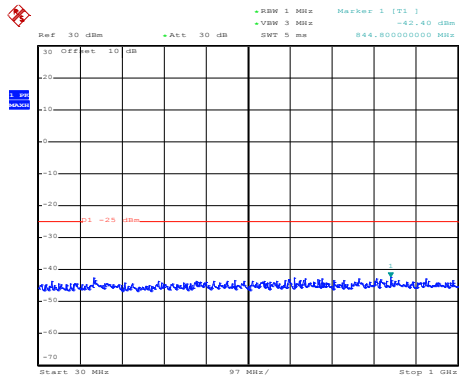
30MHz~1GHz



Date: 26.SEP.2019 15:24:04

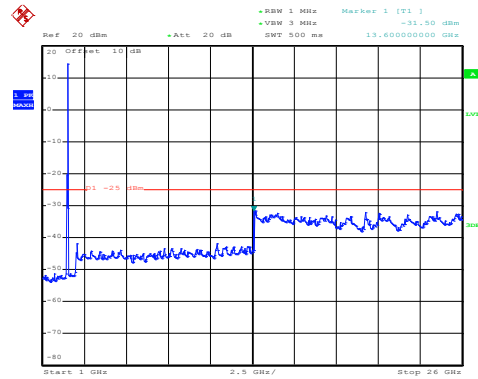
1GHz~25GHz

LTE Band 7: 16 QAM & RB Size 100  
 BW: 20MHz  
 Lowest channel



Date: 26.SEP.2019 15:21:28

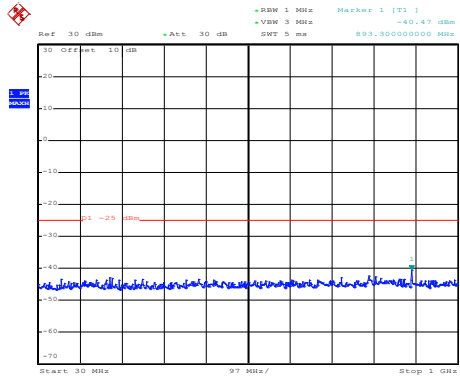
30MHz~1GHz



Date: 26.SEP.2019 15:25:27

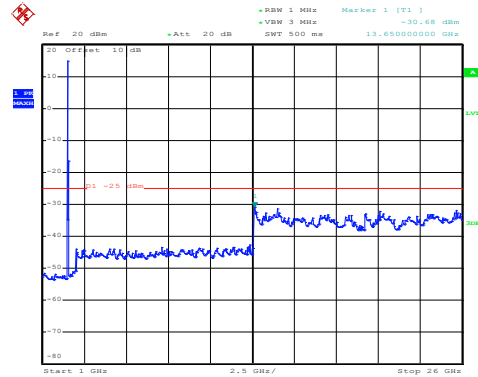
1GHz~25GHz

Middle channel



Date: 26.SEP.2019 15:21:41

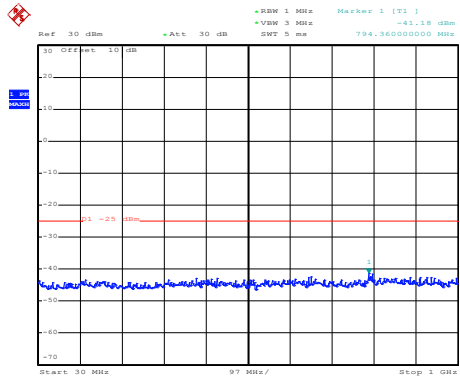
30MHz~1GHz



Date: 26.SEP.2019 15:24:53

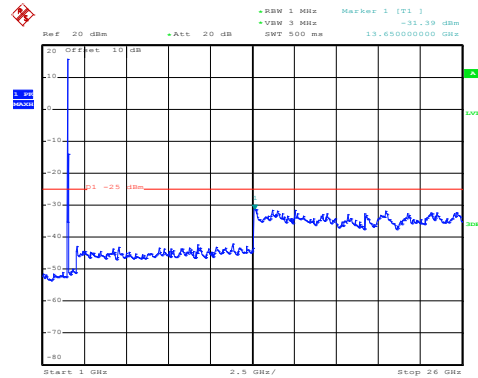
1GHz~25GHz

High channel



Date: 26.SEP.2019 15:22:42

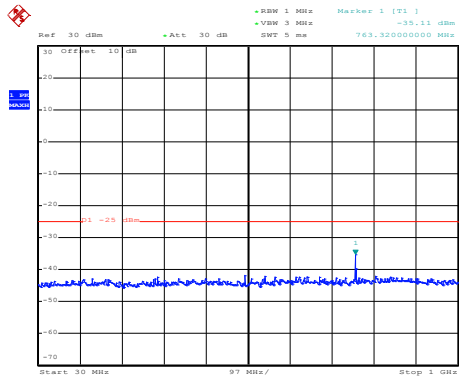
30MHz~1GHz



Date: 26.SEP.2019 15:23:43

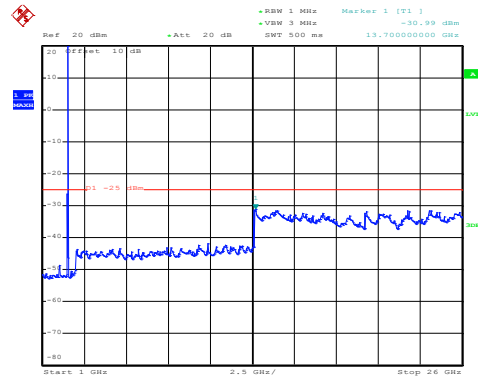
1GHz~25GHz

## LTE Band 7: QPSK & RB Size 1 BW: 20MHz Lowest channel



Date: 26.SEP.2019 15:21:09

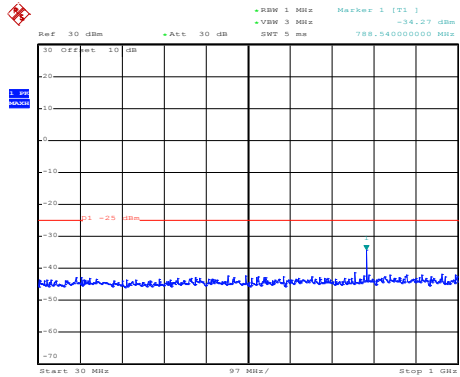
30MHz~1GHz



Date: 26.SEP.2019 15:25:44

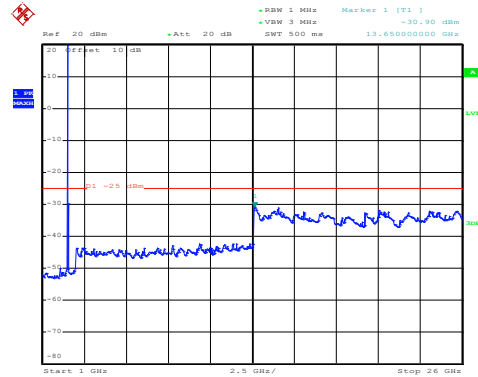
1GHz~25GHz

## Middle channel



Date: 26.SEP.2019 15:21:52

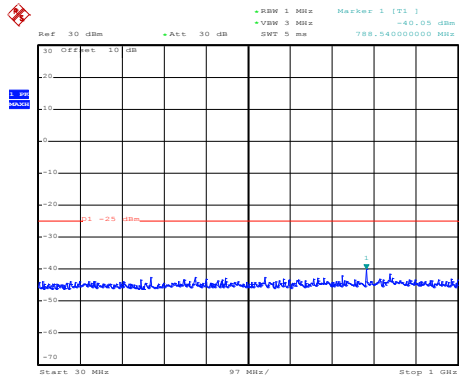
30MHz~1GHz



Date: 26.SEP.2019 15:24:28

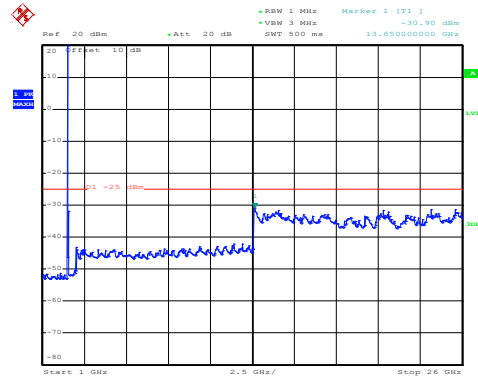
1GHz~25GHz

## High channel



Date: 26.SEP.2019 15:22:20

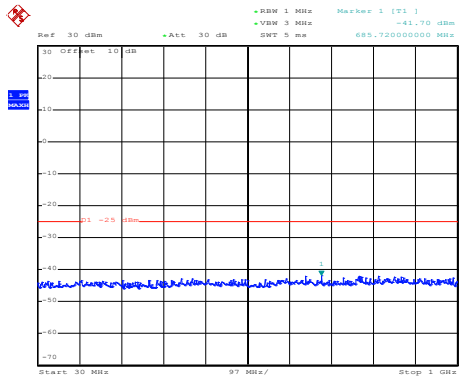
30MHz~1GHz



Date: 26.SEP.2019 15:23:55

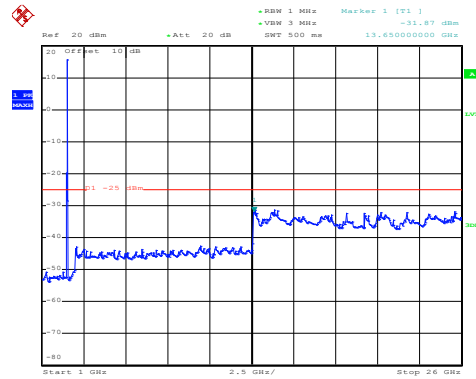
1GHz~25GHz

LTE Band 7: QPSK & RB Size 100  
 BW: 20MHz  
 Lowest channel



Date: 26.SEP.2019 15:21:23

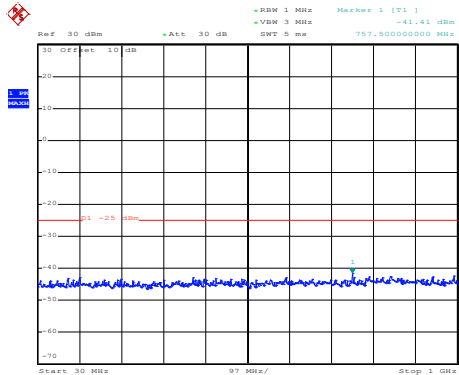
30MHz~1GHz



Date: 26.SEP.2019 15:25:20

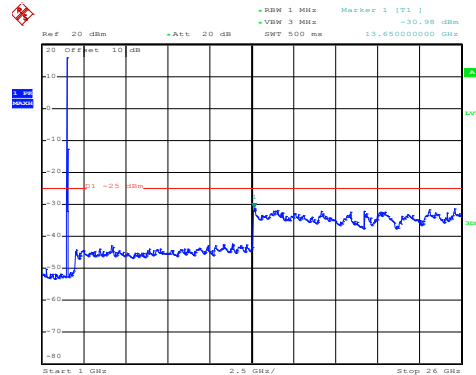
1GHz~25GHz

Middle channel



Date: 26.SEP.2019 15:21:36

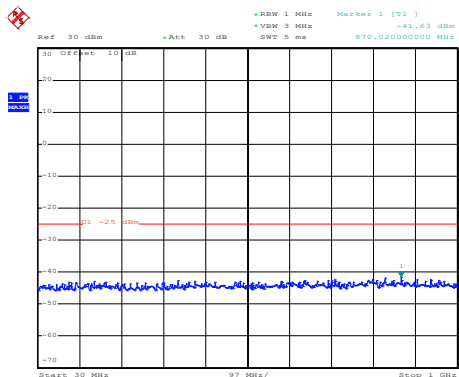
30MHz~1GHz



Date: 26.SEP.2019 15:24:47

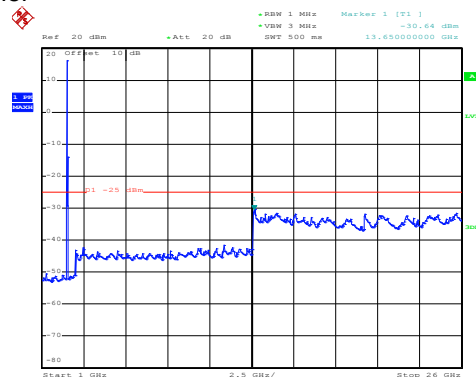
1GHz~25GHz

High channel



Date: 26.SEP.2019 15:22:35

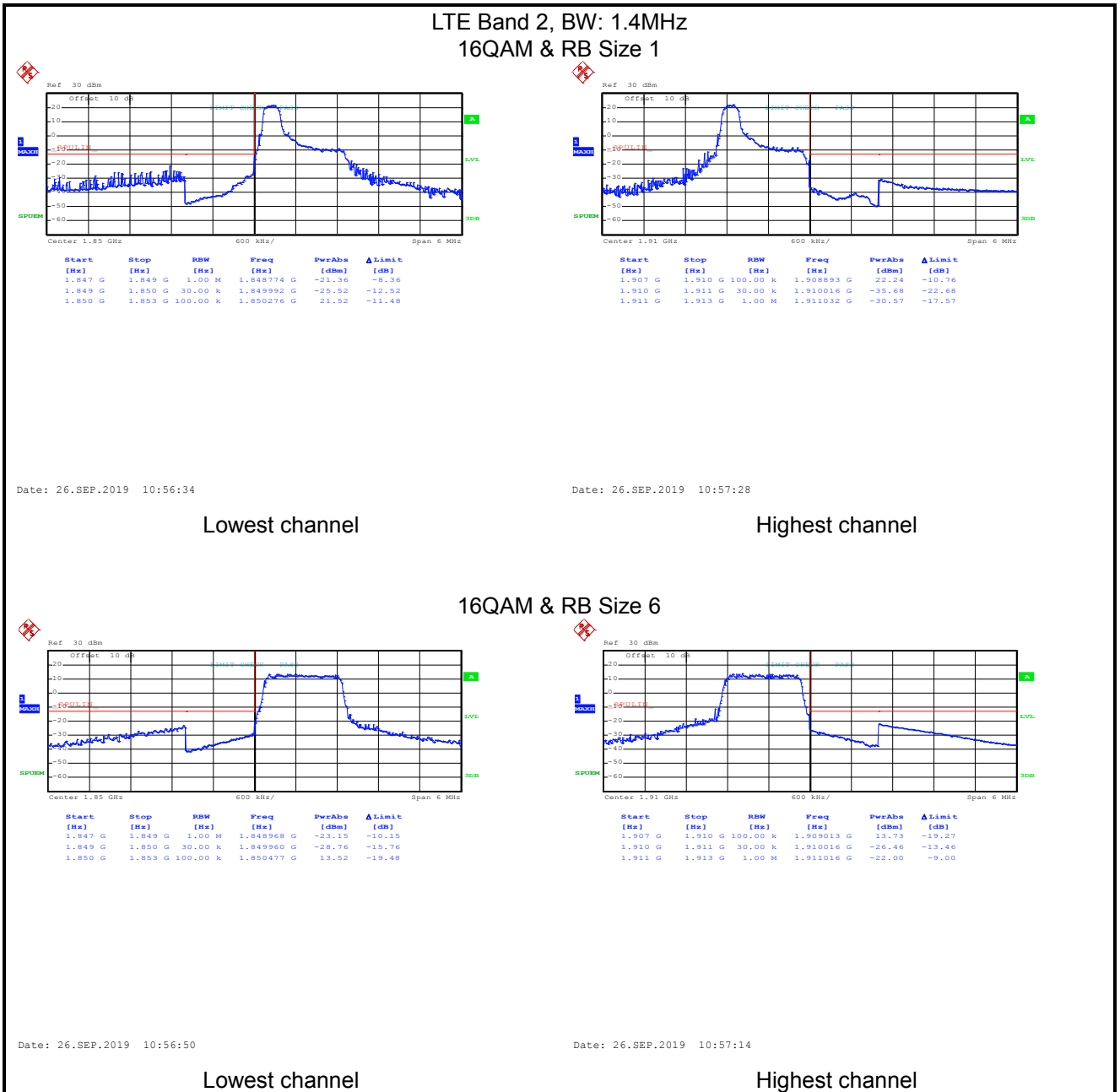
30MHz~1GHz



Date: 26.SEP.2019 15:23:33

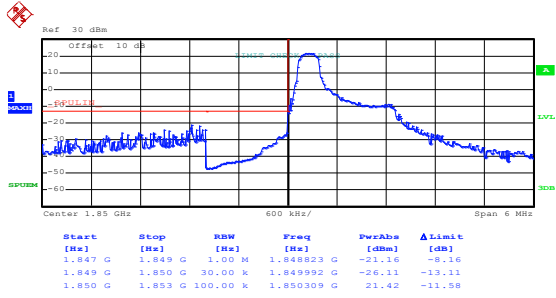
1GHz~25GHz

**Band edge emission:**  
**LTE Band 2 part:**



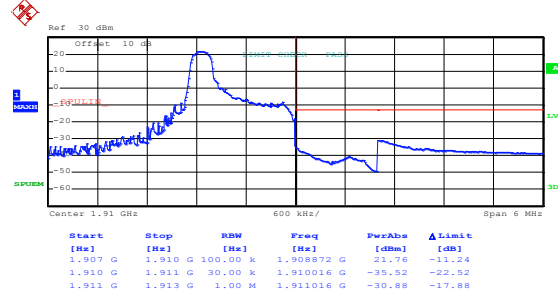


## LTE Band 2, BW: 1.4MHz QPSK & RB Size 1



Date: 26.SEP.2019 10:56:26

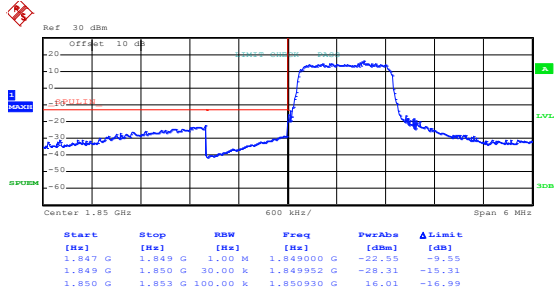
Lowest channel



Date: 26.SEP.2019 10:57:23

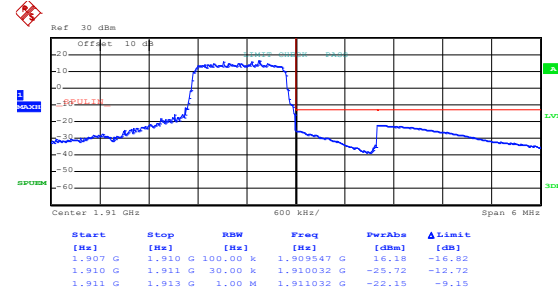
Highest channel

## QPSK & RB Size 6



Date: 26.SEP.2019 10:56:44

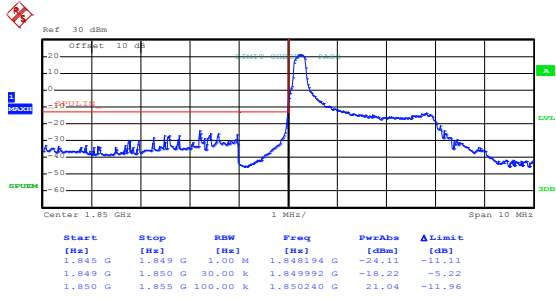
Lowest channel



Date: 26.SEP.2019 10:57:10

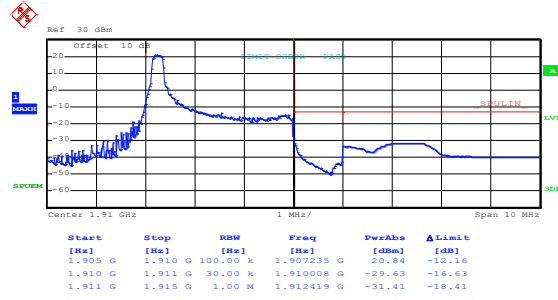
Highest channel

## LTE Band 2, BW: 3MHz 16QAM & RB Size 1



Date: 26.SEP.2019 10:59:01

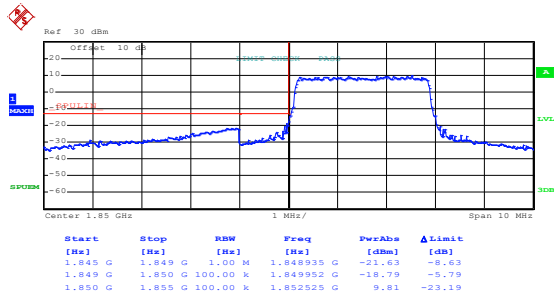
Lowest channel



Date: 26.SEP.2019 10:57:58

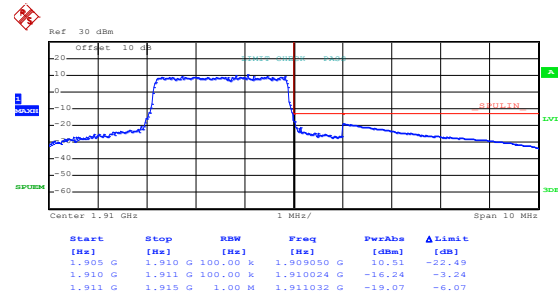
Highest channel

## 16QAM & RB Size 15



Date: 26.SEP.2019 10:58:40

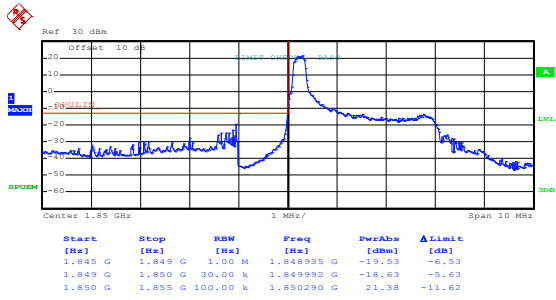
Lowest channel



Date: 26.SEP.2019 10:58:16

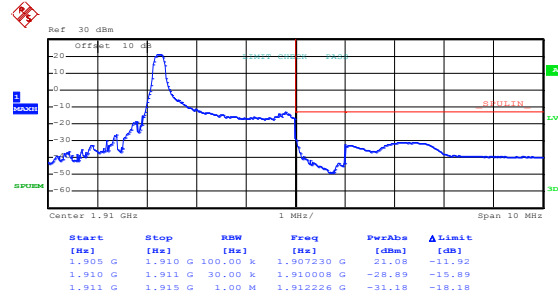
Highest channel

## LTE Band 2, BW: 3MHz QPSK & RB Size 1



Date: 26.SEP.2019 10:58:52

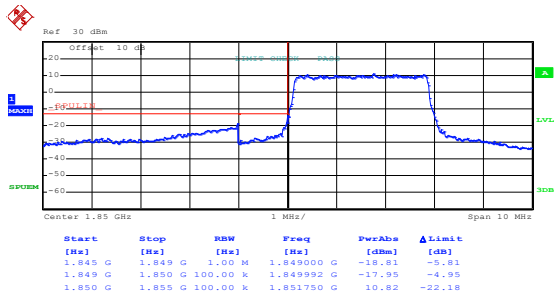
Lowest channel



Date: 26.SEP.2019 10:57:54

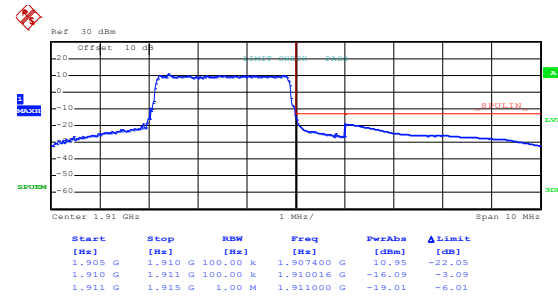
Highest channel

## QPSK & RB Size 15



Date: 26.SEP.2019 10:58:36

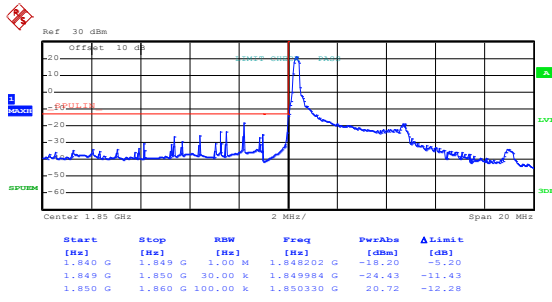
Lowest channel



Date: 26.SEP.2019 10:58:11

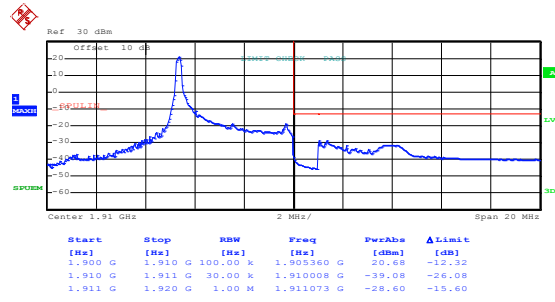
Highest channel

## LTE Band 2, BW: 5MHz 16QAM & RB Size 1



Date: 26.SEP.2019 10:59:45

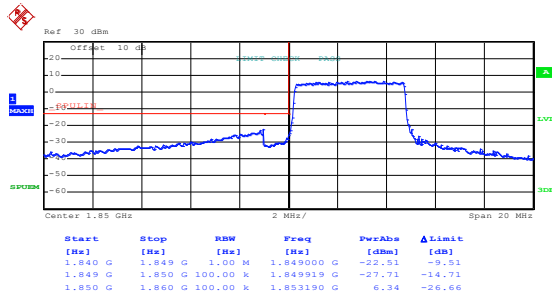
Lowest channel



Date: 26.SEP.2019 11:00:47

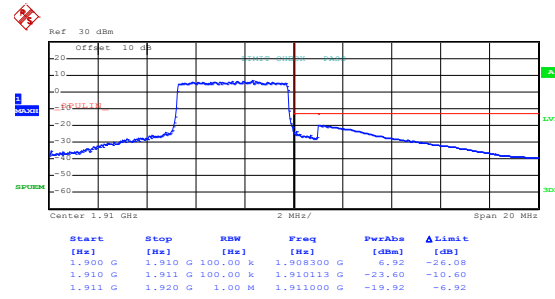
Highest channel

## 16QAM & RB Size 25



Date: 26.SEP.2019 11:00:03

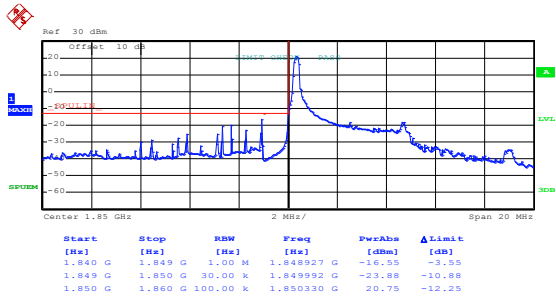
Lowest channel



Date: 26.SEP.2019 11:00:26

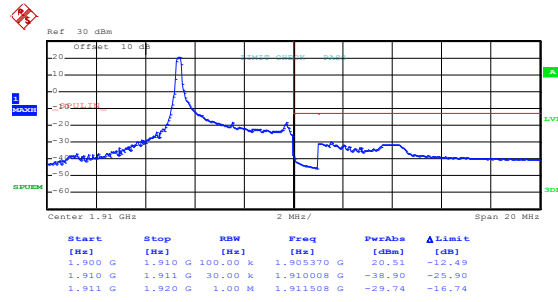
Highest channel

## LTE Band 2, BW: 5MHz QPSK & RB Size 1



Date: 26.SEP.2019 10:59:38

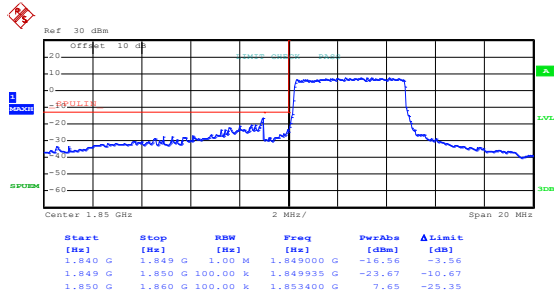
Lowest channel



Date: 26.SEP.2019 11:00:39

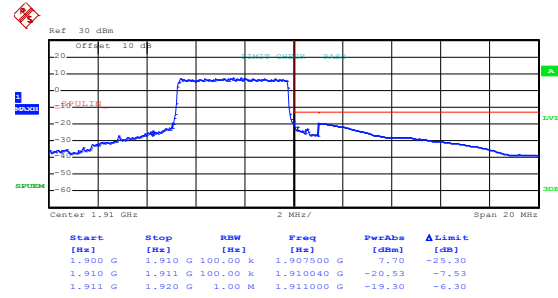
Highest channel

## QPSK & RB Size 25



Date: 26.SEP.2019 10:59:59

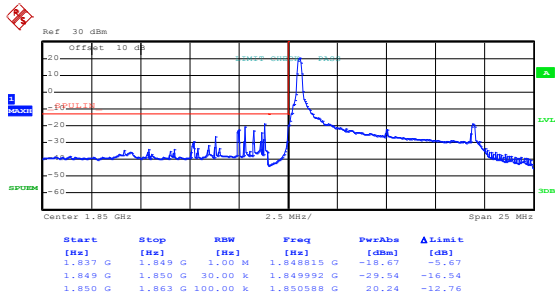
Lowest channel



Date: 26.SEP.2019 11:00:21

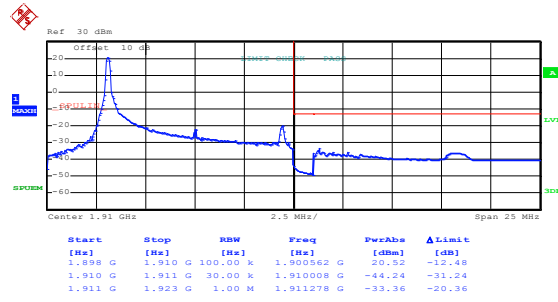
Highest channel

## LTE Band 2, BW: 10MHz 16QAM & RB Size 1



Date: 26.SEP.2019 11:02:19

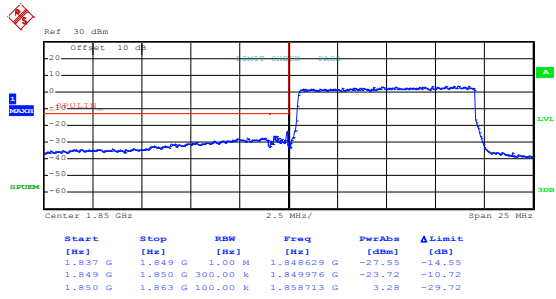
Lowest channel



Date: 26.SEP.2019 11:01:14

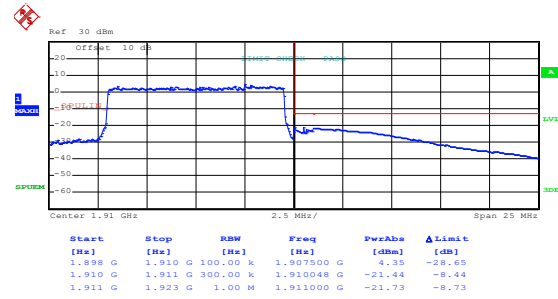
Highest channel

## 16QAM & RB Size 50



Date: 26.SEP.2019 11:01:58

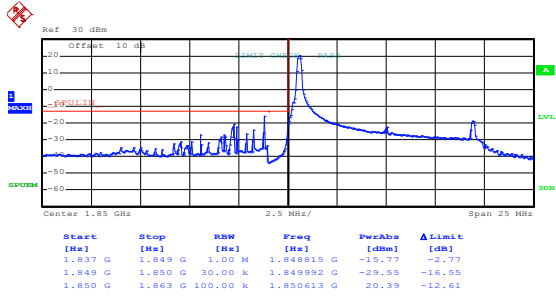
Lowest channel



Date: 26.SEP.2019 11:01:34

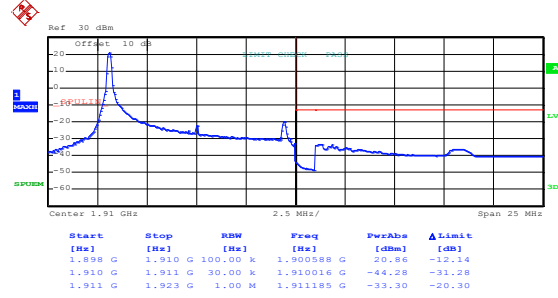
Highest channel

## LTE Band 2, BW: 10MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:02:12

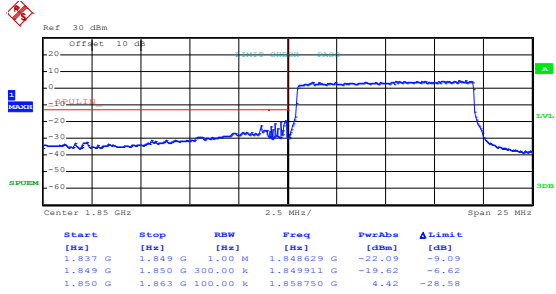
Lowest channel



Date: 26.SEP.2019 11:01:08

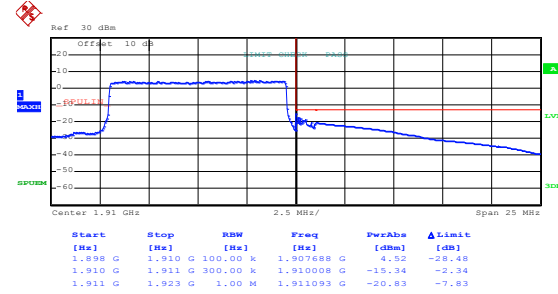
Highest channel

## QPSK & RB Size 50



Date: 26.SEP.2019 11:01:53

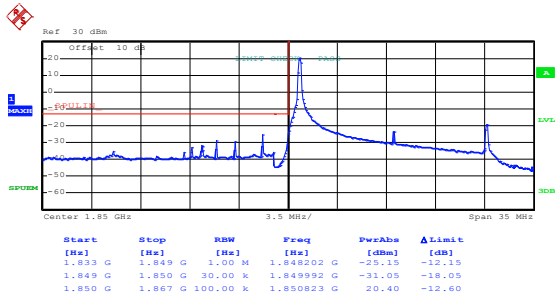
Lowest channel



Date: 26.SEP.2019 11:01:29

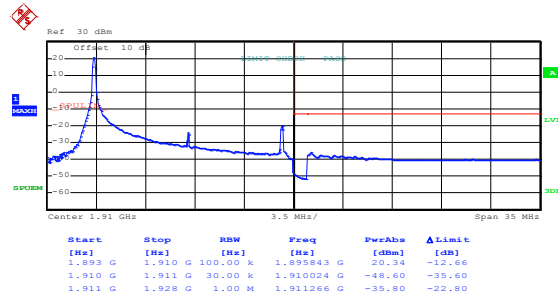
Highest channel

## LTE Band 2, BW: 15MHz 16QAM & RB Size 1



Date: 26.SEP.2019 11:02:48

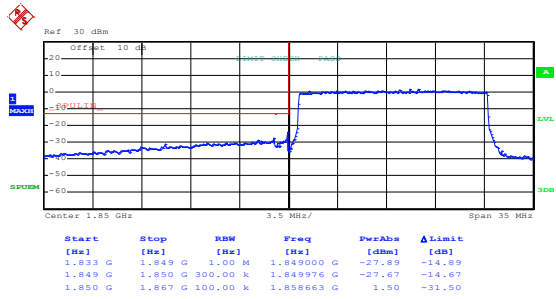
Lowest channel



Date: 26.SEP.2019 11:03:52

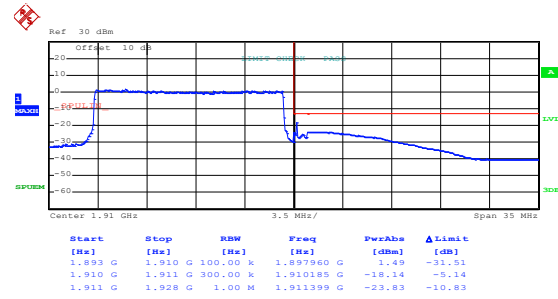
Highest channel

## 16QAM & RB Size 75



Date: 26.SEP.2019 11:03:09

Lowest channel

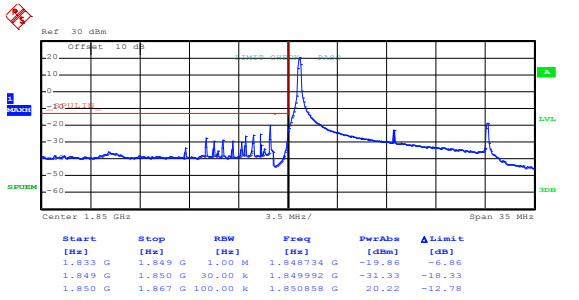


Date: 26.SEP.2019 11:03:29

Highest channel

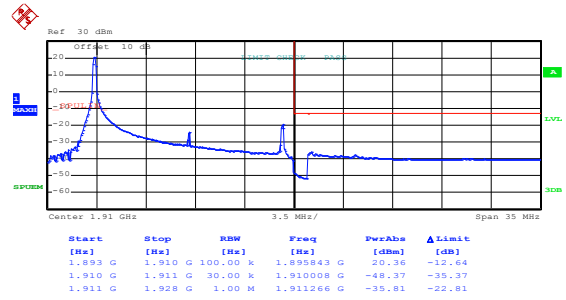


## LTE Band 2, BW: 15MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:02:42

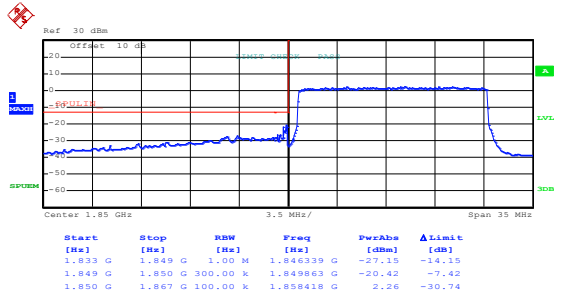
Lowest channel



Date: 26.SEP.2019 11:03:44

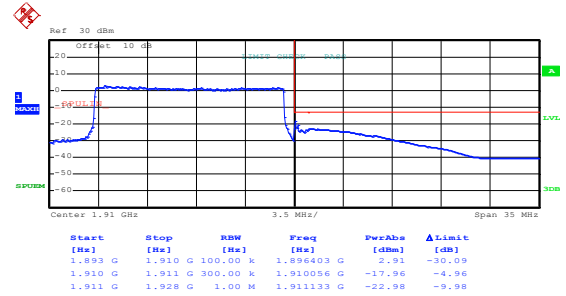
Highest channel

## QPSK & RB Size 75



Date: 26.SEP.2019 11:03:04

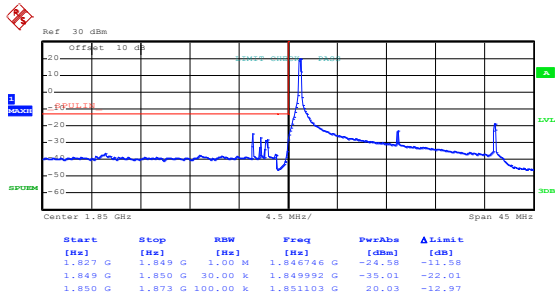
Lowest channel



Date: 26.SEP.2019 11:03:24

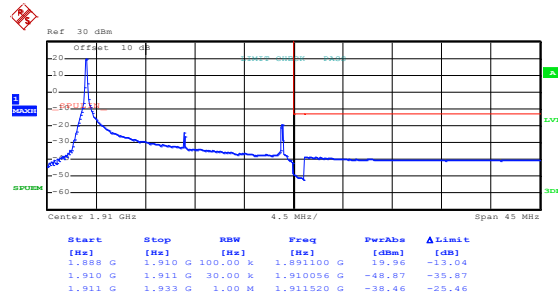
Highest channel

## LTE Band 2, BW: 20MHz 16QAM & RB Size 1



Date: 26.SEP.2019 11:05:11

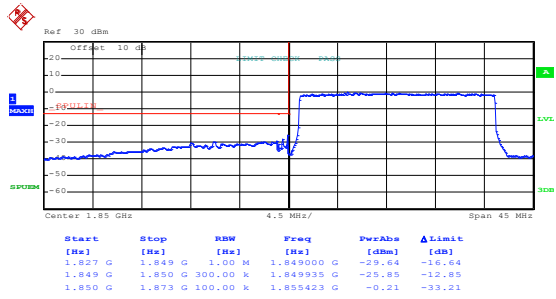
Lowest channel



Date: 26.SEP.2019 11:04:18

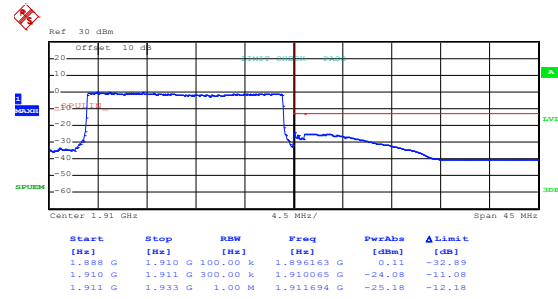
Highest channel

## 16QAM & RB Size 100



Date: 26.SEP.2019 11:04:53

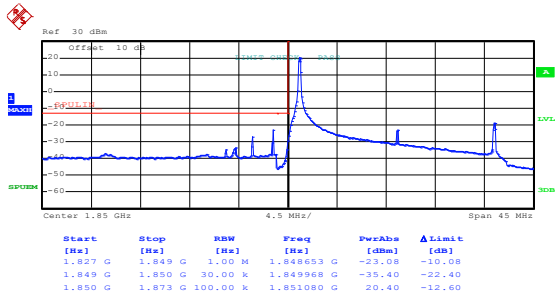
Lowest channel



Date: 26.SEP.2019 11:04:38

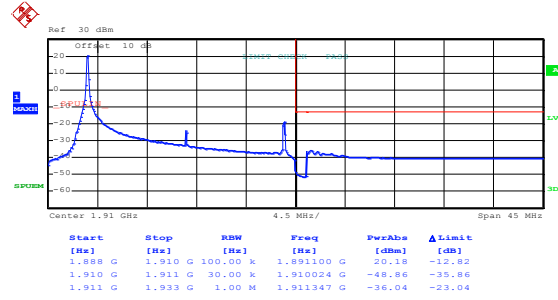
Highest channel

## LTE Band 2, BW: 20MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:05:05

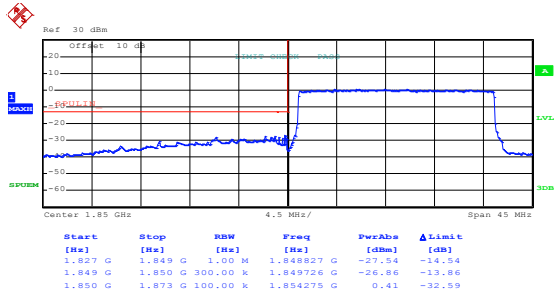
Lowest channel



Date: 26.SEP.2019 11:04:13

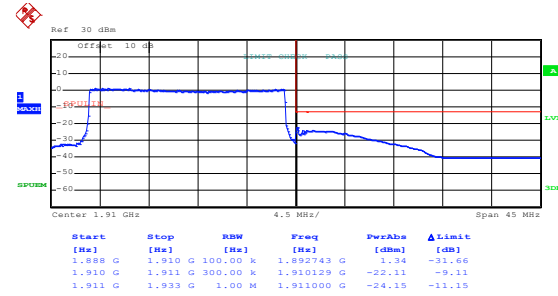
Highest channel

## QPSK & RB Size 100



Date: 26.SEP.2019 11:04:48

Lowest channel

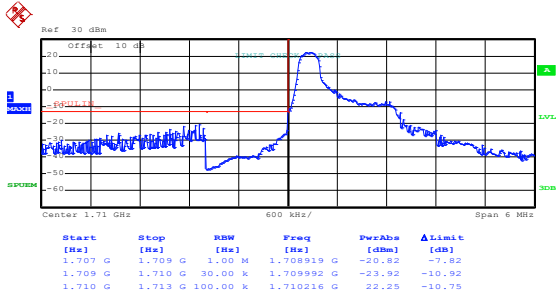


Date: 26.SEP.2019 11:04:32

Highest channel

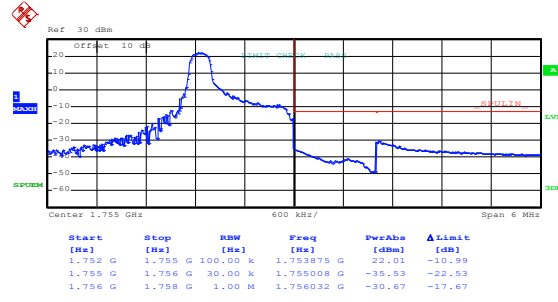
LTE Band 4 part:

LTE Band 4, BW: 1.4MHz  
16QAM & RB Size 1



Date: 26.SEP.2019 11:06:29

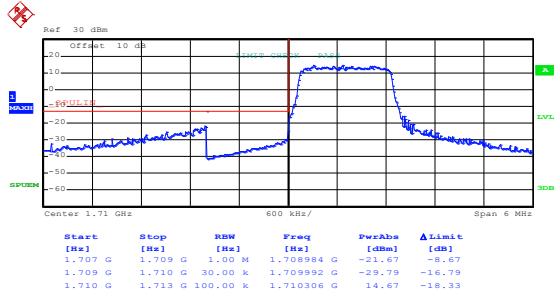
Lowest channel



Date: 26.SEP.2019 11:07:28

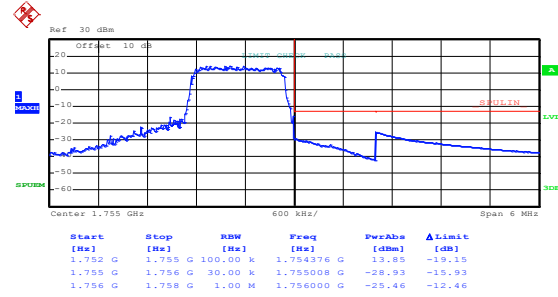
Highest channel

16QAM & RB Size 6



Date: 26.SEP.2019 11:06:45

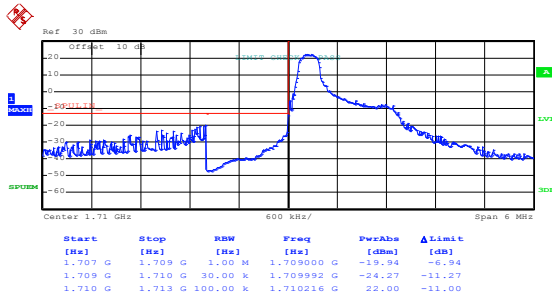
Lowest channel



Date: 26.SEP.2019 11:07:05

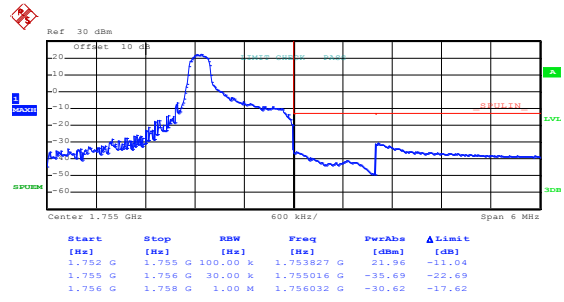
Highest channel

## LTE Band 4, BW: 1.4MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:06:17

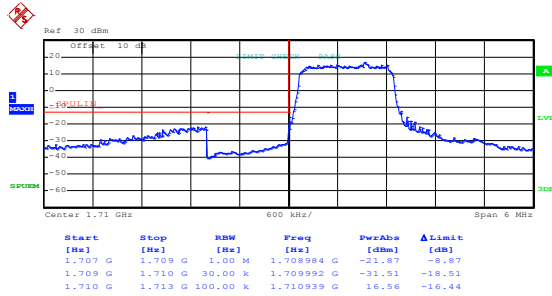
Lowest channel



Date: 26.SEP.2019 11:07:14

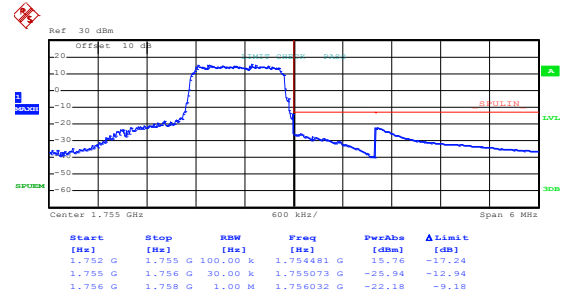
Highest channel

## QPSK & RB Size 6



Date: 26.SEP.2019 11:06:39

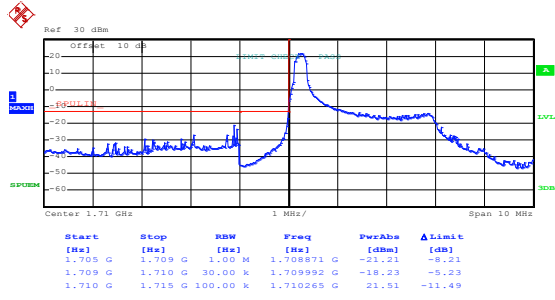
Lowest channel



Date: 26.SEP.2019 11:06:58

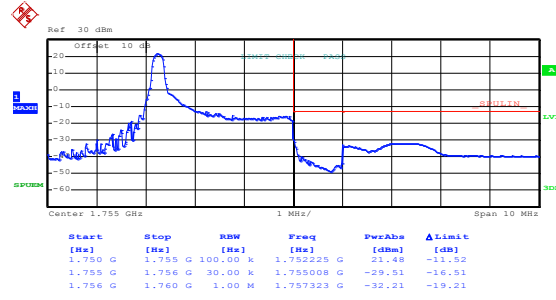
Highest channel

## LTE Band 4, BW: 3MHz 16QAM & RB Size 1



Date: 26.SEP.2019 11:09:13

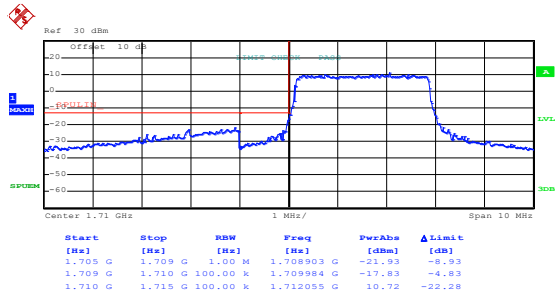
Lowest channel



Date: 26.SEP.2019 11:08:01

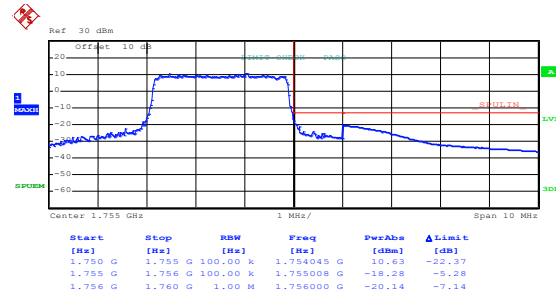
Highest channel

## 16QAM & RB Size 15



Date: 26.SEP.2019 11:08:50

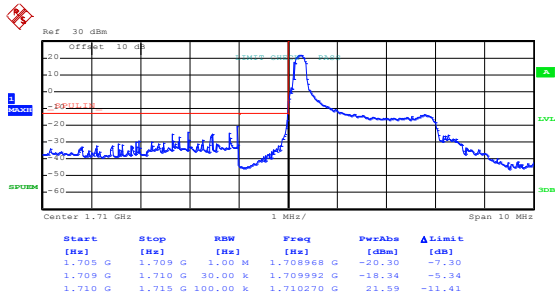
Lowest channel



Date: 26.SEP.2019 11:08:24

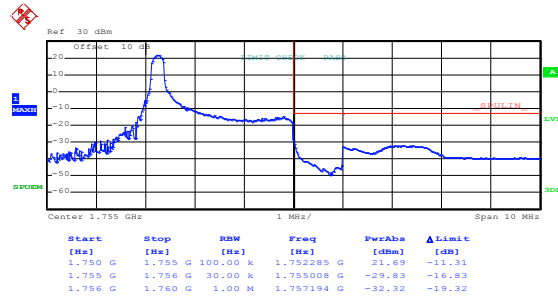
Highest channel

## LTE Band 4, BW: 3MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:09:06

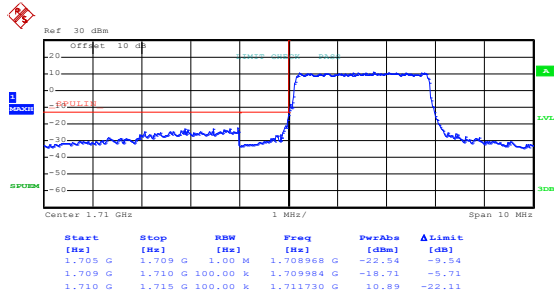
Lowest channel



Date: 26.SEP.2019 11:07:55

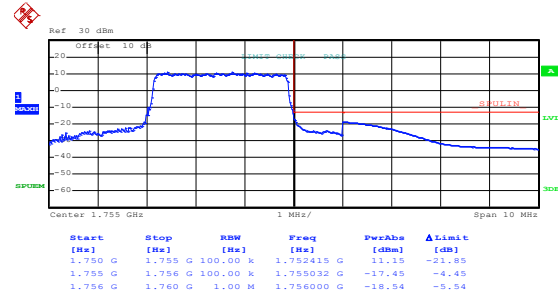
Highest channel

## QPSK & RB Size 15



Date: 26.SEP.2019 11:08:44

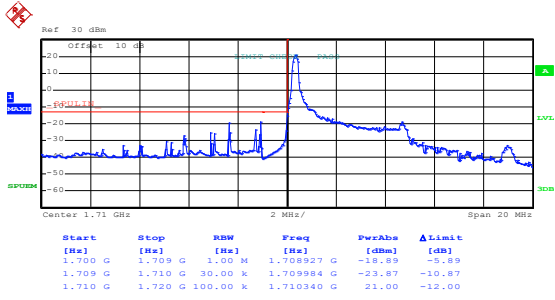
Lowest channel



Date: 26.SEP.2019 11:08:17

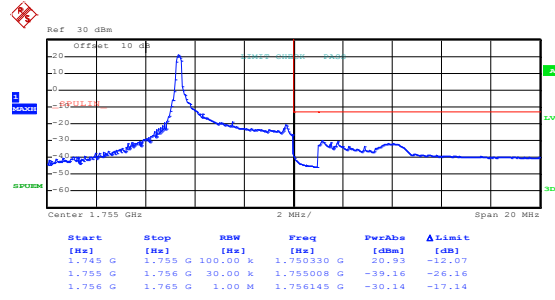
Highest channel

## LTE Band 4, BW: 5MHz 16QAM & RB Size 1



Date: 26.SEP.2019 11:09:57

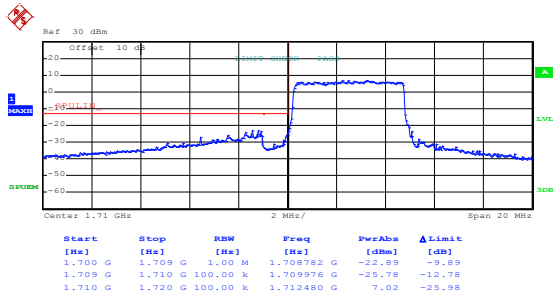
Lowest channel



Date: 26.SEP.2019 11:10:56

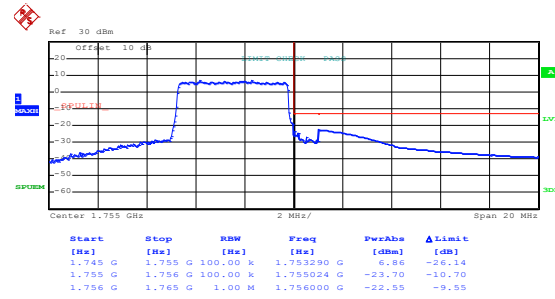
Highest channel

## 16QAM & RB Size 25



Date: 26.SEP.2019 11:10:17

Lowest channel

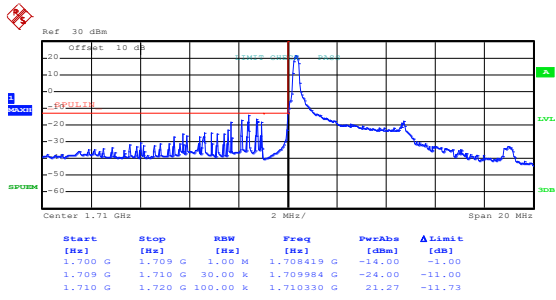


Date: 26.SEP.2019 11:10:35

Highest channel

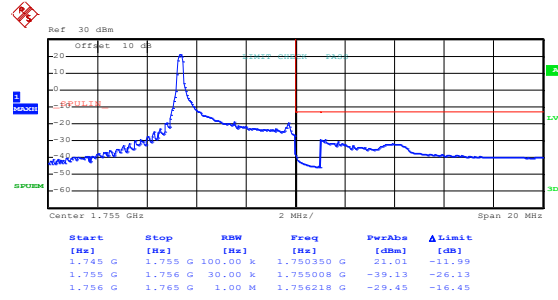


## LTE Band 4, BW: 5MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:09:43

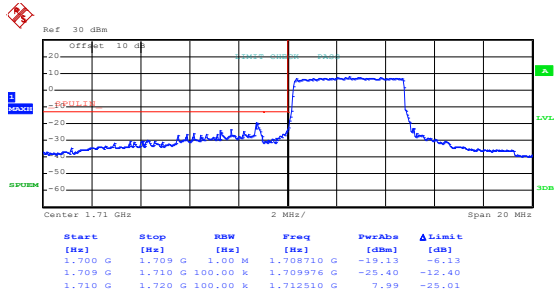
Lowest channel



Date: 26.SEP.2019 11:10:51

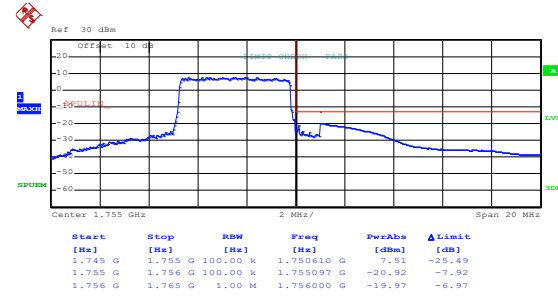
Highest channel

## QPSK & RB Size 25



Date: 26.SEP.2019 11:10:12

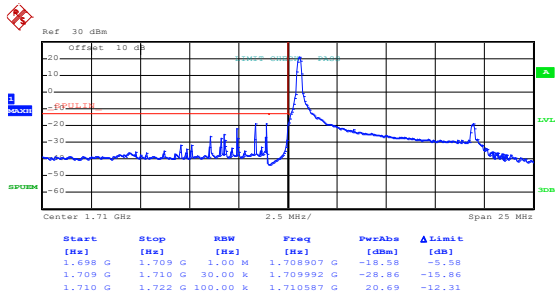
Lowest channel



Date: 26.SEP.2019 11:10:29

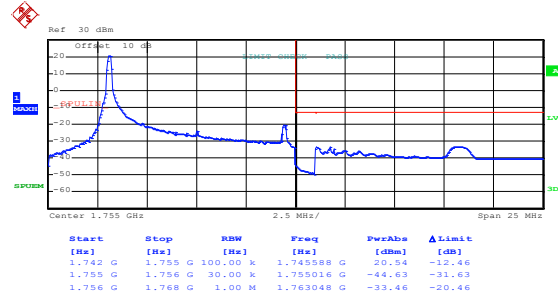
Highest channel

## LTE Band 4, BW: 10MHz 16QAM & RB Size 1



Date: 26.SEP.2019 11:12:33

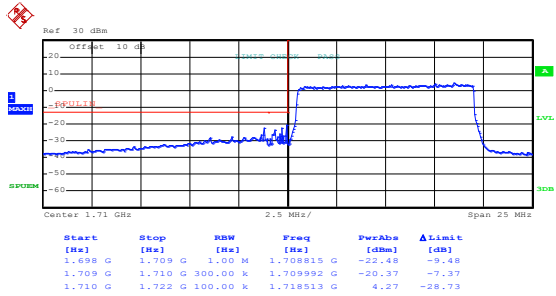
Lowest channel



Date: 26.SEP.2019 11:11:28

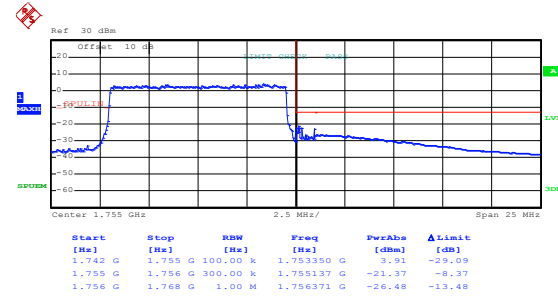
Highest channel

## 16QAM & RB Size 50



Date: 26.SEP.2019 11:12:13

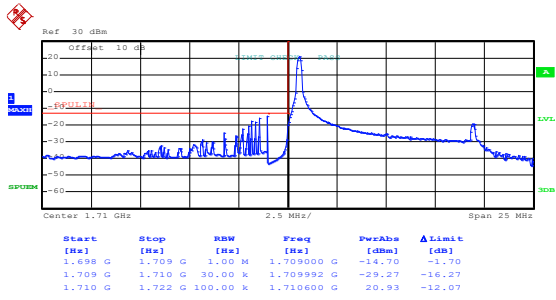
Lowest channel



Date: 26.SEP.2019 11:11:47

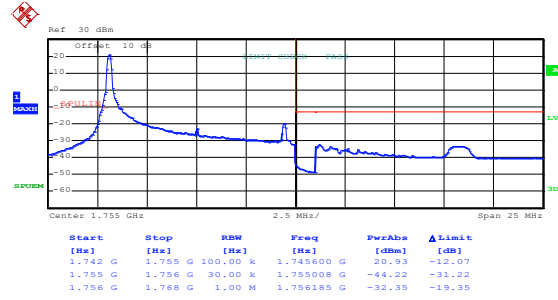
Highest channel

## LTE Band 4, BW: 10MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:12:27

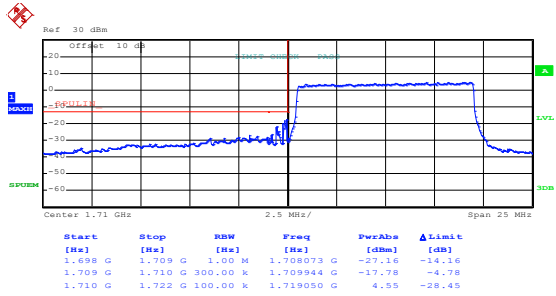
Lowest channel



Date: 26.SEP.2019 11:11:23

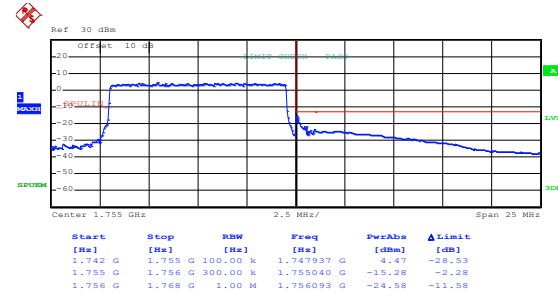
Highest channel

## QPSK & RB Size 50



Date: 26.SEP.2019 11:12:07

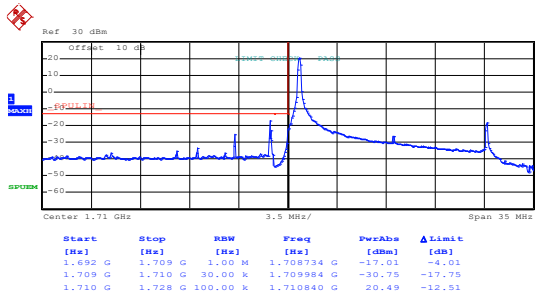
Lowest channel



Date: 26.SEP.2019 11:11:42

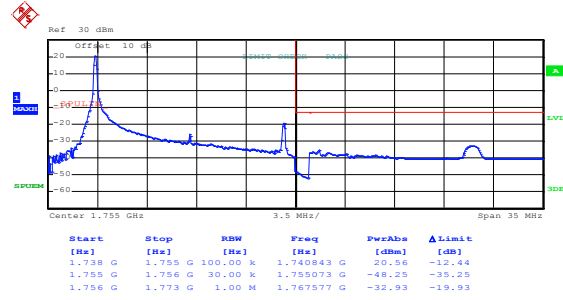
Highest channel

## LTE Band 4, BW: 15MHz 16QAM & RB Size 1



Date: 26.SEP.2019 11:13:06

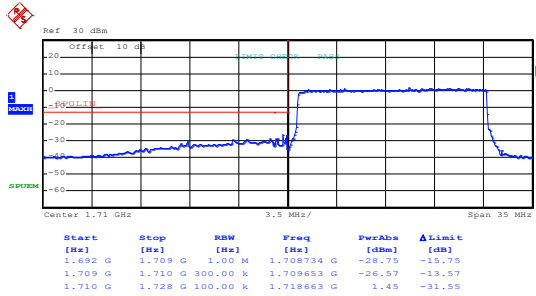
Lowest channel



Date: 26.SEP.2019 11:15:22

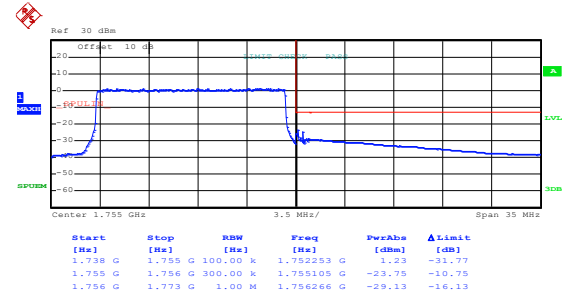
Highest channel

## 16QAM & RB Size 75



Date: 26.SEP.2019 11:13:29

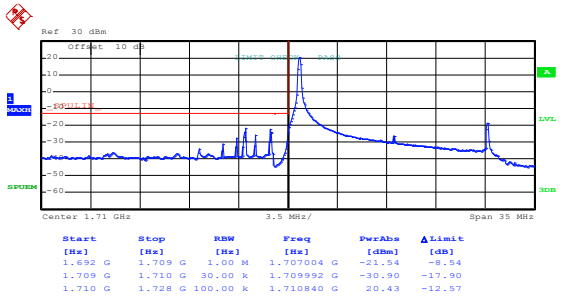
Lowest channel



Date: 26.SEP.2019 11:13:51

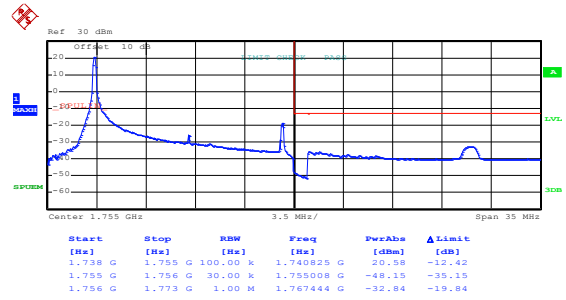
Highest channel

## LTE Band 4, BW: 15MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:13:01

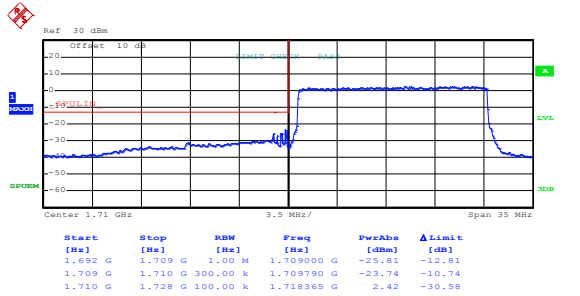
Lowest channel



Date: 26.SEP.2019 11:15:17

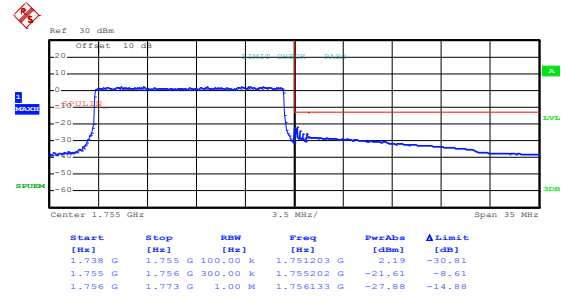
Highest channel

## QPSK & RB Size 75



Date: 26.SEP.2019 11:14:40

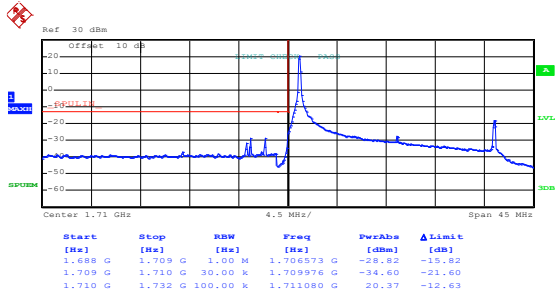
Lowest channel



Date: 26.SEP.2019 11:13:45

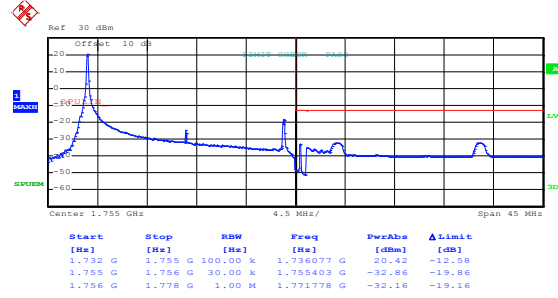
Highest channel

## LTE Band 4, BW: 20MHz 16QAM & RB Size 1



Date: 26.SEP.2019 11:26:21

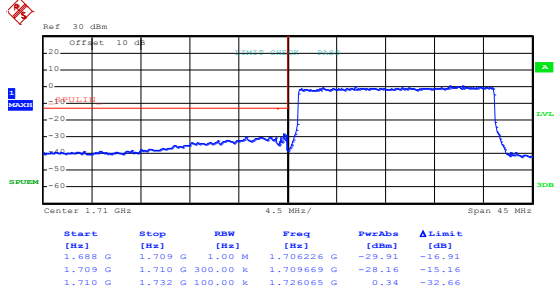
Lowest channel



Date: 26.SEP.2019 11:25:25

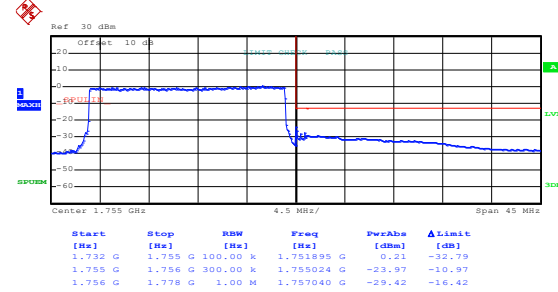
Highest channel

## 16QAM & RB Size 100



Date: 26.SEP.2019 11:26:04

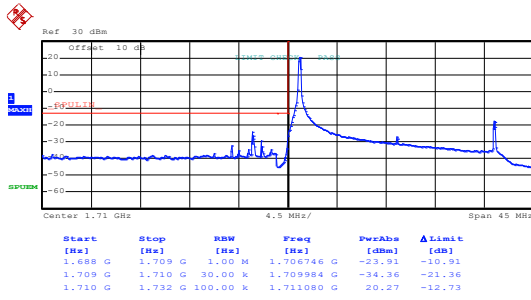
Lowest channel



Date: 26.SEP.2019 11:25:44

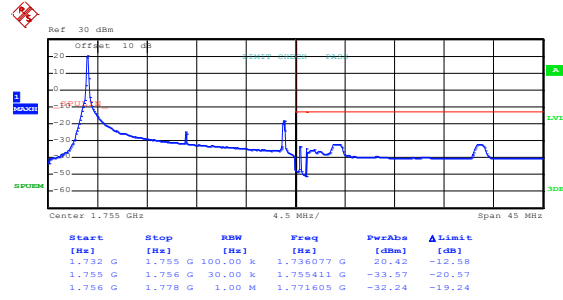
Highest channel

## LTE Band 4, BW: 20MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:26:16

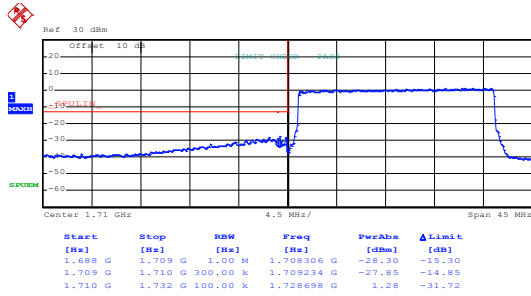
Lowest channel



Date: 26.SEP.2019 11:25:19

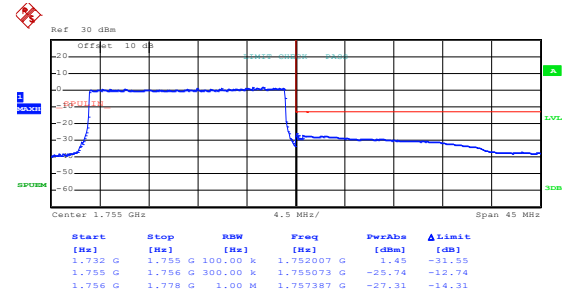
Highest channel

## QPSK & RB Size 100



Date: 26.SEP.2019 11:25:59

Lowest channel

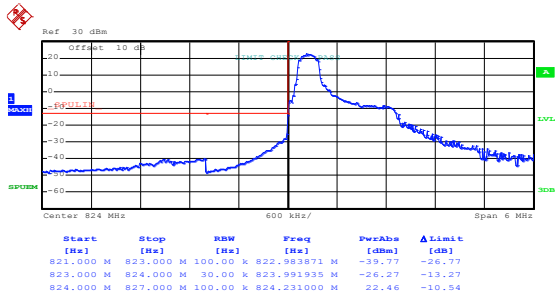


Date: 26.SEP.2019 11:25:39

Highest channel

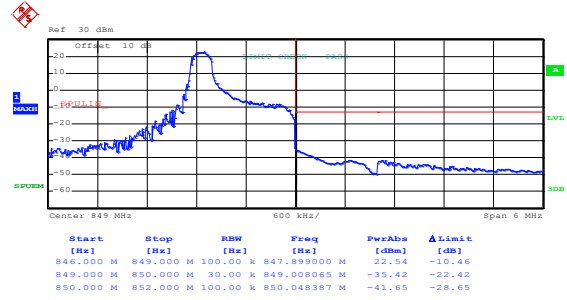
LTE Band 5 part:

LTE Band 5, BW: 1.4MHz  
16QAM & RB Size 1



Date: 26.SEP.2019 11:45:25

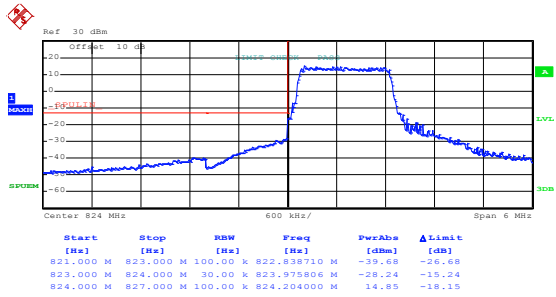
Lowest channel



Date: 26.SEP.2019 11:46:28

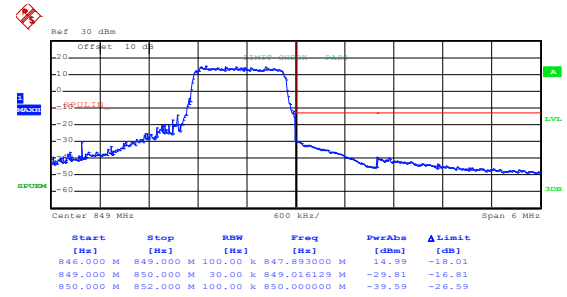
Highest channel

16QAM & RB Size 6



Date: 26.SEP.2019 11:45:44

Lowest channel

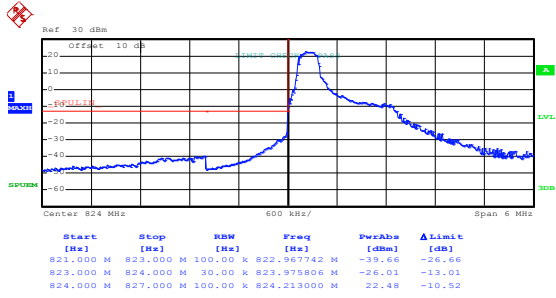


Date: 26.SEP.2019 11:46:03

Highest channel

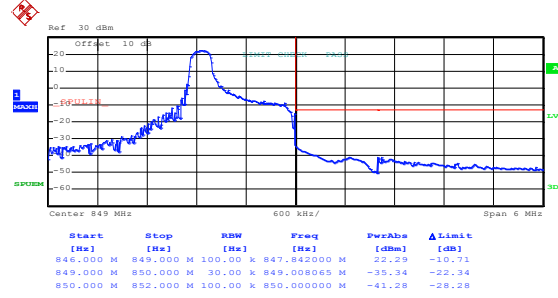


## LTE Band 5, BW: 1.4MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:45:12

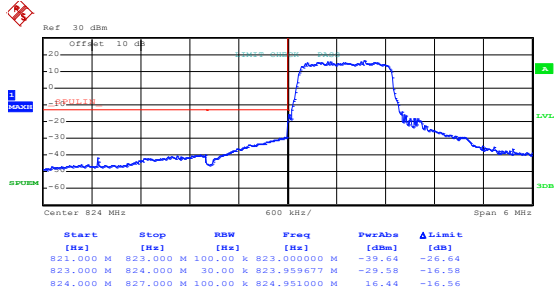
Lowest channel



Date: 26.SEP.2019 11:46:16

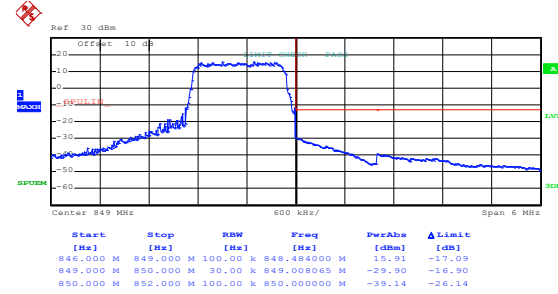
Highest channel

## QPSK & RB Size 6



Date: 26.SEP.2019 11:45:37

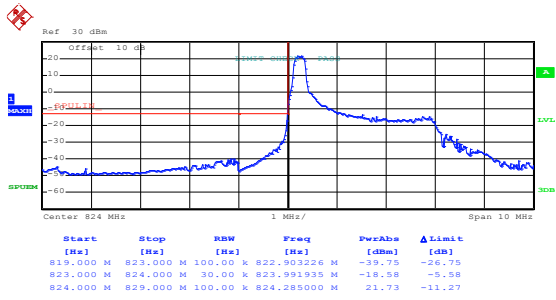
Lowest channel



Date: 26.SEP.2019 11:45:57

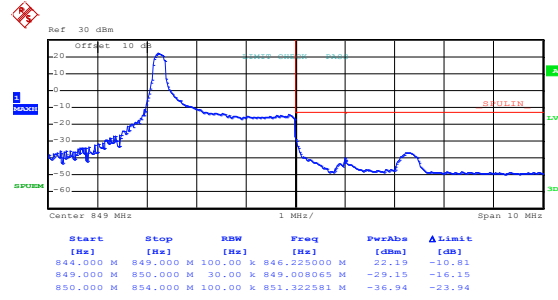
Highest channel

## LTE Band 5, BW: 3MHz 16QAM & RB Size 1



Date: 26.SEP.2019 11:48:19

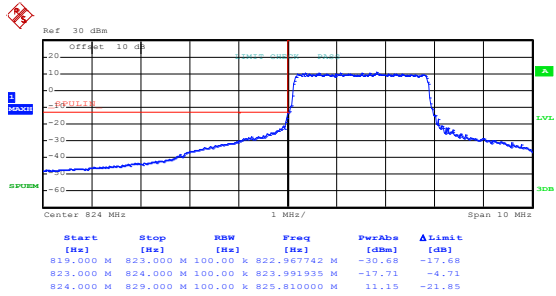
Lowest channel



Date: 26.SEP.2019 11:47:12

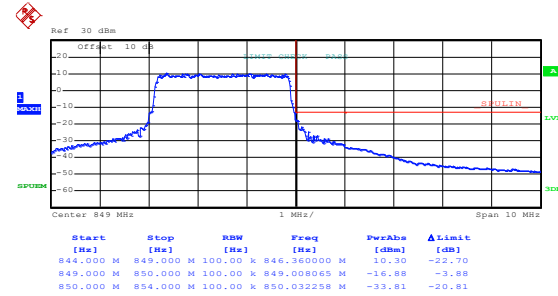
Highest channel

## 16QAM & RB Size 15



Date: 26.SEP.2019 11:47:58

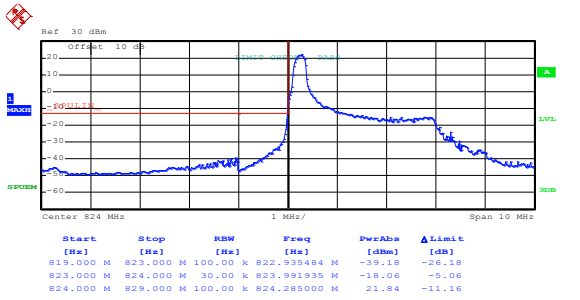
Lowest channel



Date: 26.SEP.2019 11:47:31

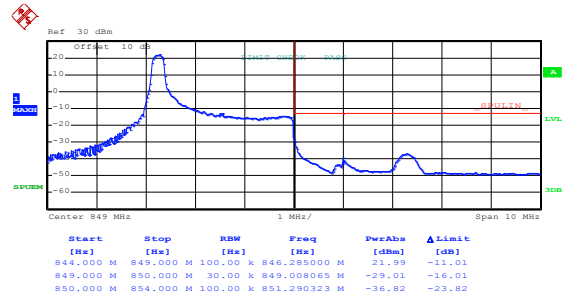
Highest channel

## LTE Band 5, BW: 3MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:48:13

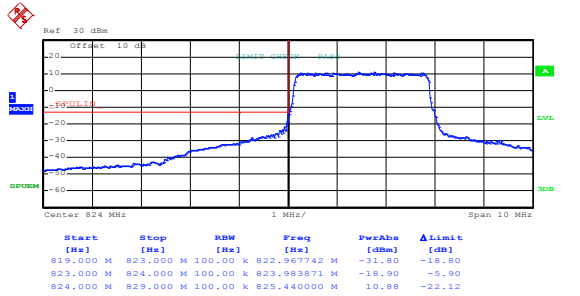
Lowest channel



Date: 26.SEP.2019 11:47:01

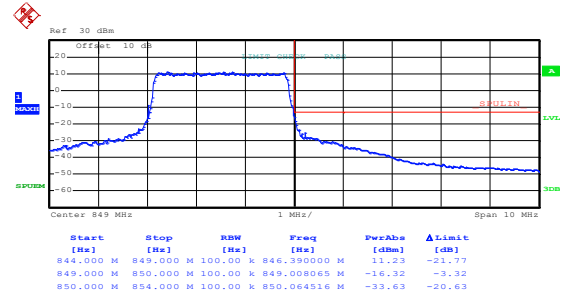
Highest channel

## QPSK & RB Size 15



Date: 26.SEP.2019 11:47:51

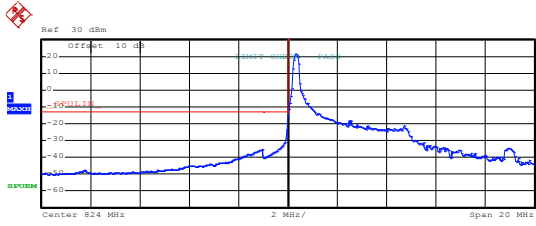
Lowest channel



Date: 26.SEP.2019 11:47:25

Highest channel

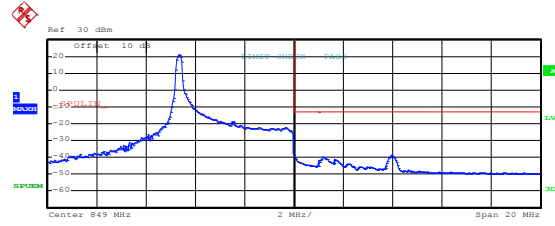
## LTE Band 5, BW: 5MHz 16QAM & RB Size 1



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
824.000 M	823.000 M	100.00 k	823.000000 M	-23.19	-22.19
823.000 M	824.000 M	30.00 k	823.991935 M	-23.63	-10.63
824.000 M	834.000 M	100.00 k	824.330000 M	21.36	-11.64

Date: 26.SEP.2019 11:48:53

Lowest channel

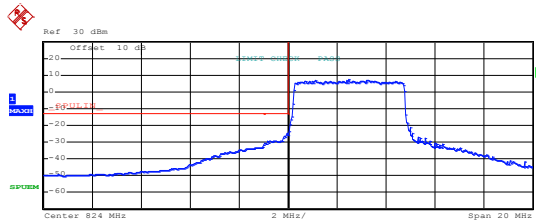


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
849.000 M	849.000 M	100.00 k	844.340000 M	21.35	-11.87
849.000 M	850.000 M	30.00 k	849.008065 M	-38.80	-25.80
850.000 M	859.000 M	100.00 k	852.975806 M	-38.50	-25.50

Date: 26.SEP.2019 11:49:55

Highest channel

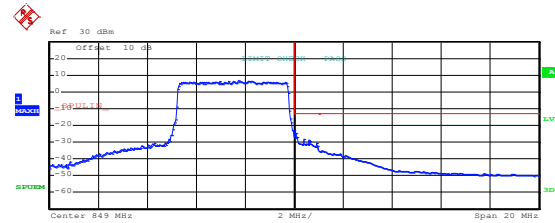
## 16QAM & RB Size 25



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
824.000 M	823.000 M	100.00 k	823.000000 M	-33.05	-20.05
823.000 M	824.000 M	100.00 k	823.935484 M	-24.91	-11.91
824.000 M	834.000 M	100.00 k	826.470000 M	7.23	-25.77

Date: 26.SEP.2019 11:49:10

Lowest channel

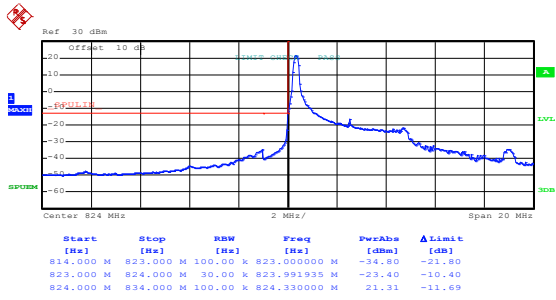


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
849.000 M	849.000 M	100.00 k	844.700000 M	6.68	-26.32
849.000 M	850.000 M	100.00 k	849.080645 M	-24.50	-11.50
850.000 M	859.000 M	100.00 k	850.000000 M	-35.44	-22.44

Date: 26.SEP.2019 11:49:29

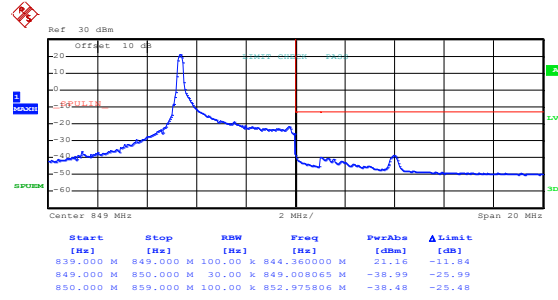
Highest channel

## LTE Band 5, BW: 5MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:48:45

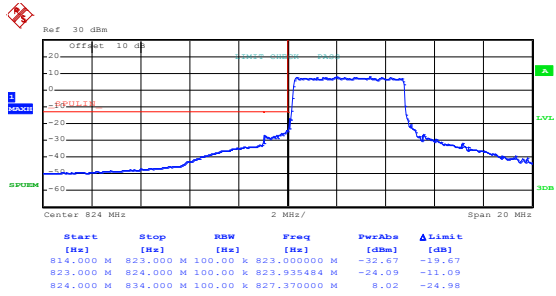
Lowest channel



Date: 26.SEP.2019 11:49:44

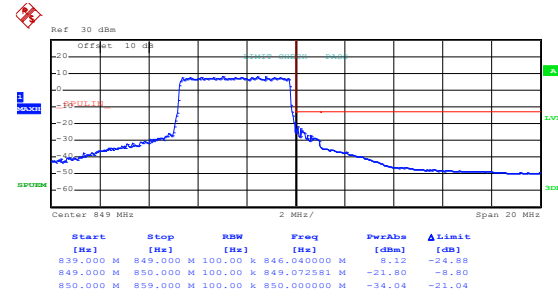
Highest channel

## QPSK & RB Size 25



Date: 26.SEP.2019 11:49:05

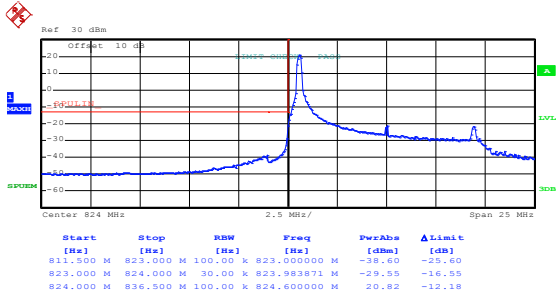
Lowest channel



Date: 26.SEP.2019 11:49:24

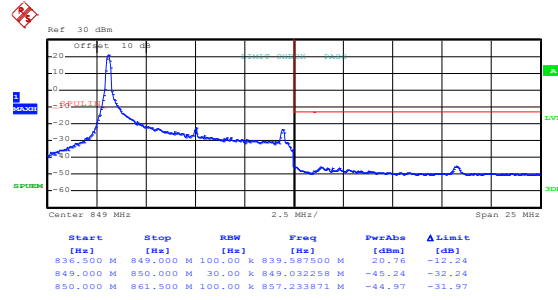
Highest channel

## LTE Band 5, BW: 10MHz 16QAM & RB Size 1



Date: 26.SEP.2019 11:51:29

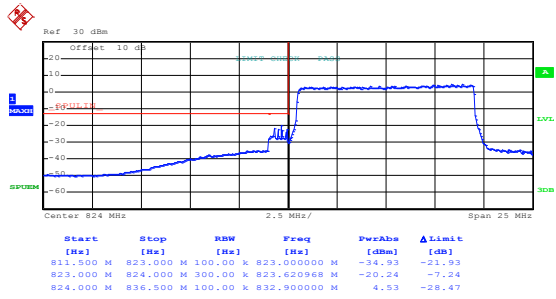
Lowest channel



Date: 26.SEP.2019 11:50:19

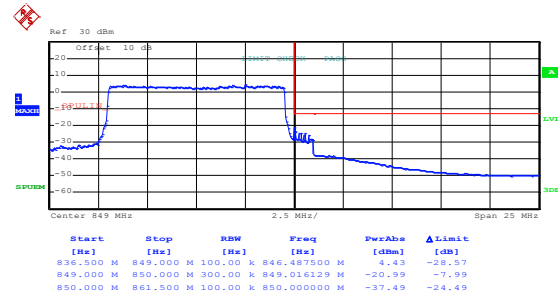
Highest channel

## 16QAM & RB Size 50



Date: 26.SEP.2019 11:51:05

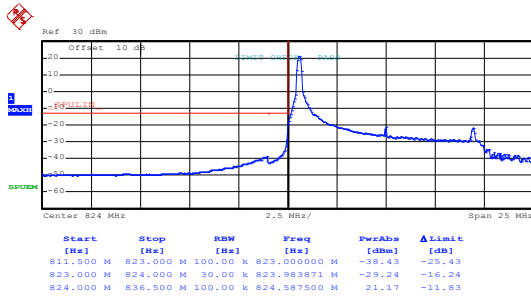
Lowest channel



Date: 26.SEP.2019 11:50:41

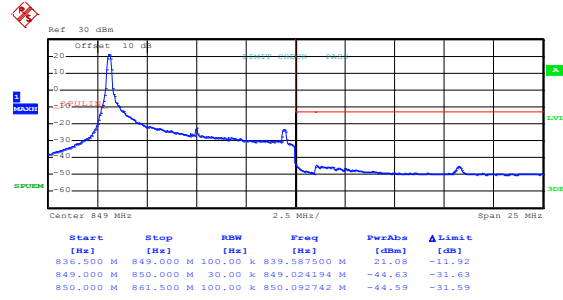
Highest channel

## LTE Band 5, BW: 10MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:51:22

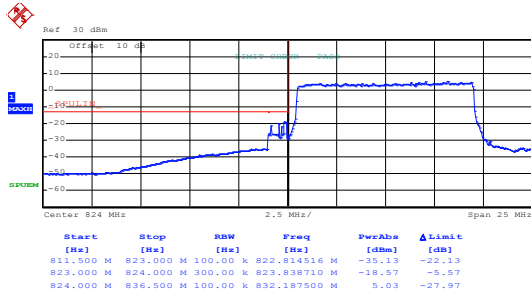
Lowest channel



Date: 26.SEP.2019 11:50:14

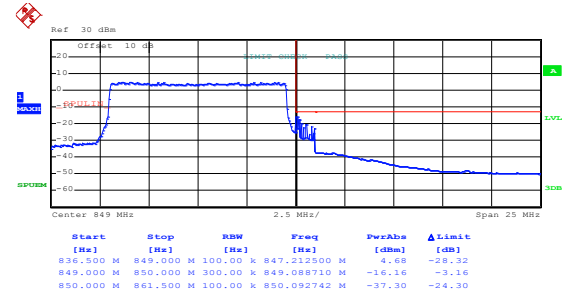
Highest channel

## QPSK & RB Size 50



Date: 26.SEP.2019 11:50:59

Lowest channel

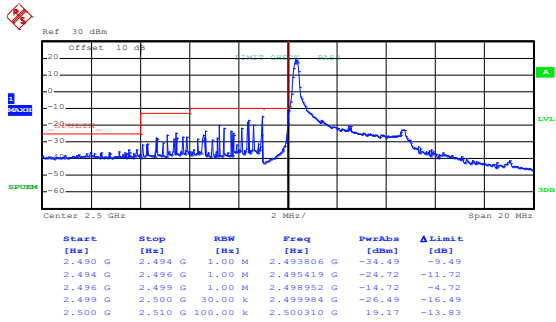


Date: 26.SEP.2019 11:50:35

Highest channel

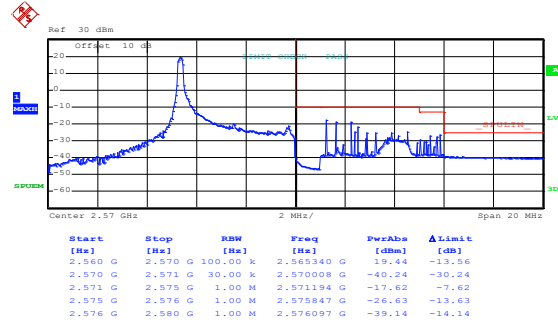
LTE Band 7 part:

LTE Band 7, BW: 5MHz  
16QAM & RB Size 1



Date: 26.SEP.2019 11:52:46

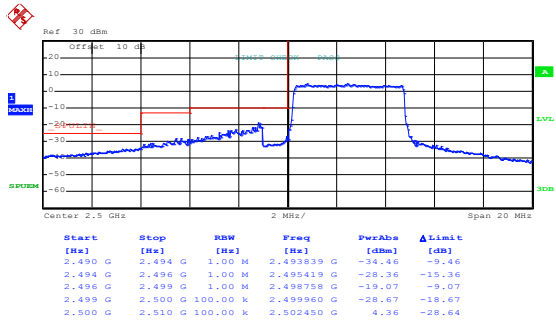
Lowest channel



Date: 26.SEP.2019 11:54:23

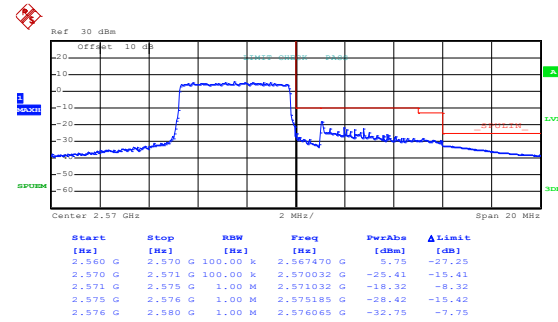
Highest channel

16QAM & RB Size 25



Date: 26.SEP.2019 11:53:14

Lowest channel

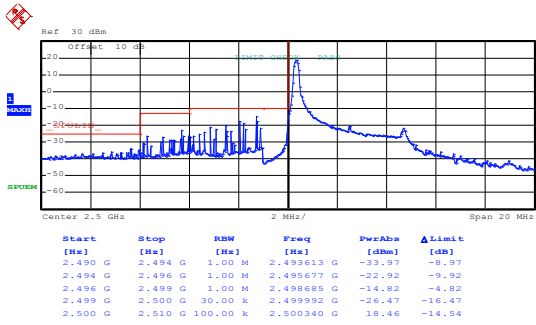


Date: 26.SEP.2019 11:54:00

Highest channel

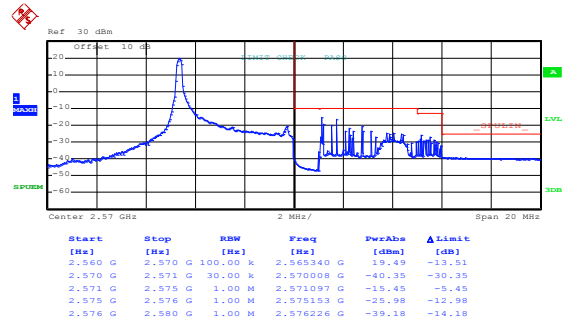


## LTE Band 7, BW: 5MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:52:40

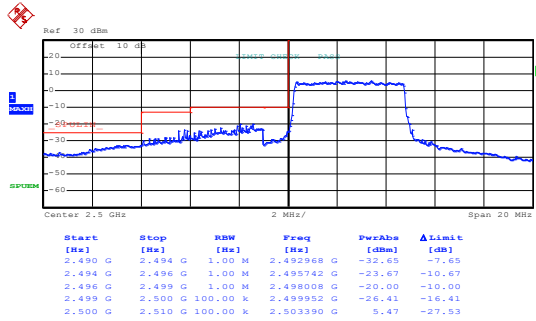
Lowest channel



Date: 26.SEP.2019 11:54:16

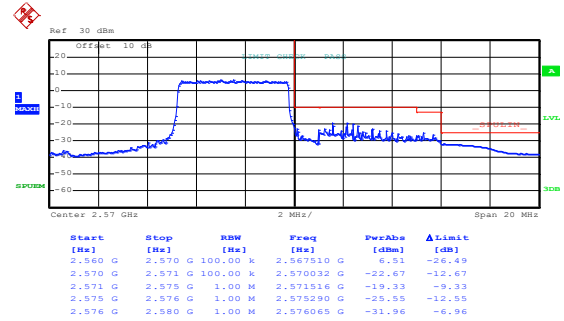
Highest channel

## QPSK & RB Size 25



Date: 26.SEP.2019 11:53:08

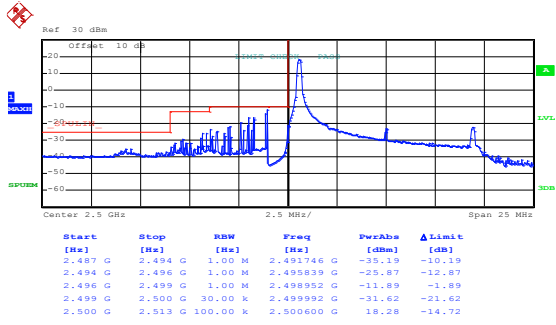
Lowest channel



Date: 26.SEP.2019 11:53:53

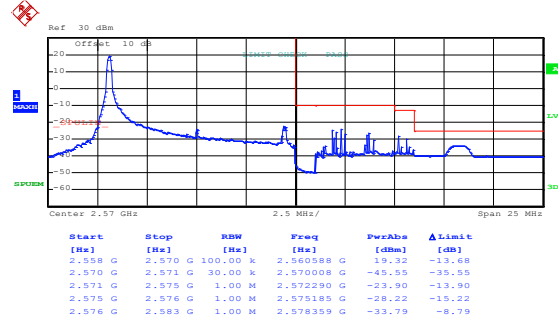
Highest channel

## LTE Band 7, BW: 10MHz 16QAM & RB Size 1



Date: 26.SEP.2019 11:56:03

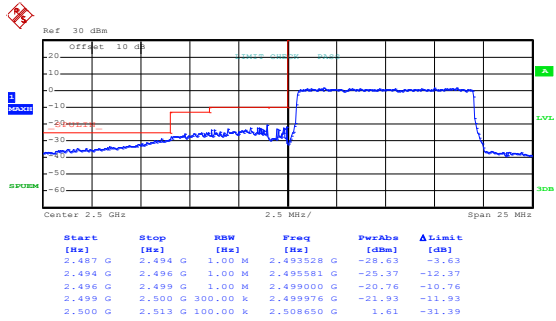
Lowest channel



Date: 26.SEP.2019 11:54:56

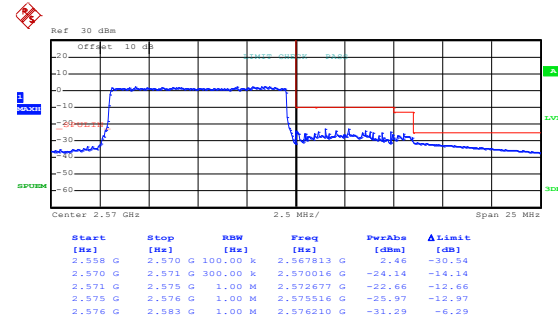
Highest channel

## 16QAM & RB Size 50



Date: 26.SEP.2019 11:55:43

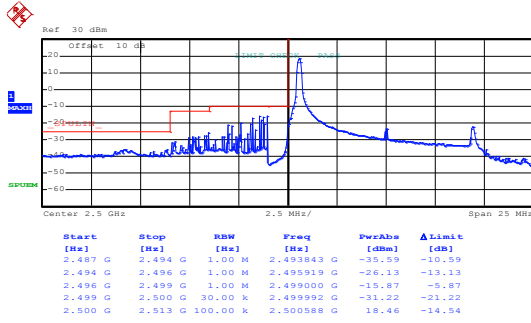
Lowest channel



Date: 26.SEP.2019 11:55:16

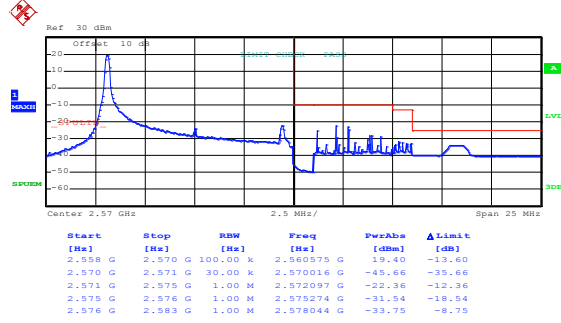
Highest channel

## LTE Band 7, BW: 10MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:55:56

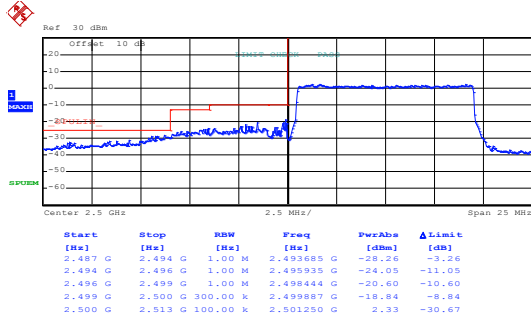
Lowest channel



Date: 26.SEP.2019 11:54:49

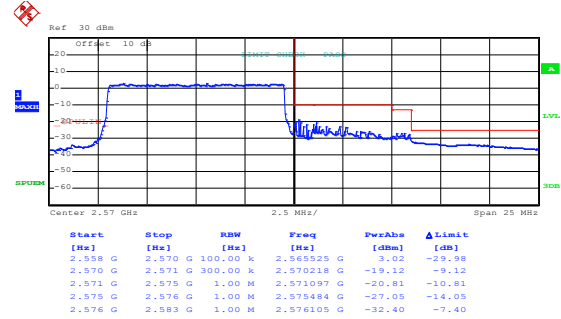
Highest channel

## QPSK & RB Size 50



Date: 26.SEP.2019 11:55:36

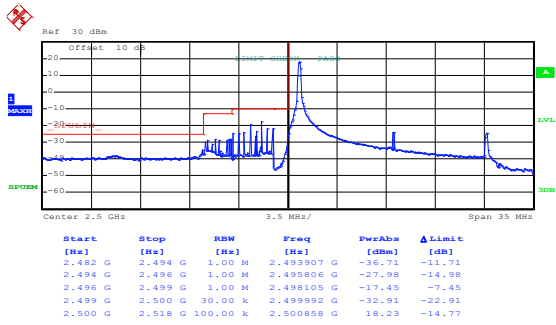
Lowest channel



Date: 26.SEP.2019 11:55:09

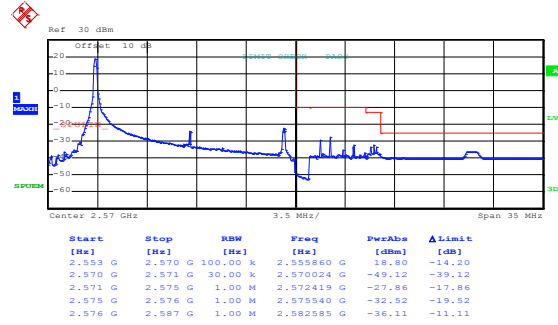
Highest channel

## LTE Band 7, BW: 15MHz 16QAM & RB Size 1



Date: 26.SEP.2019 11:56:30

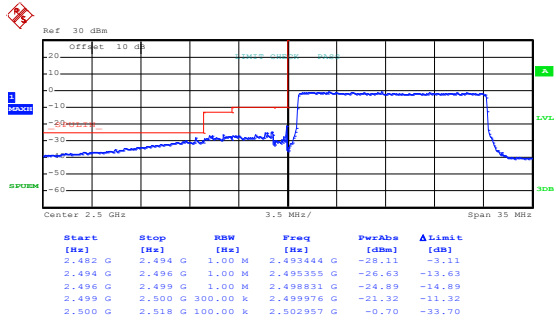
Lowest channel



Date: 26.SEP.2019 11:57:32

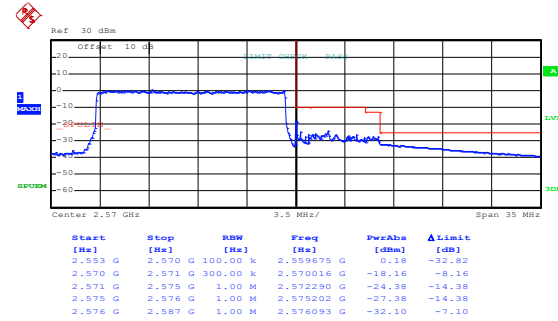
Highest channel

## 16QAM & RB Size 75



Date: 26.SEP.2019 11:56:51

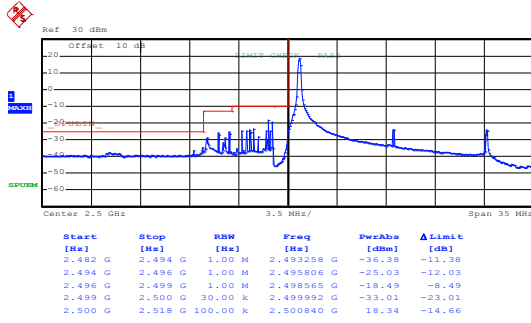
Lowest channel



Date: 26.SEP.2019 11:57:12

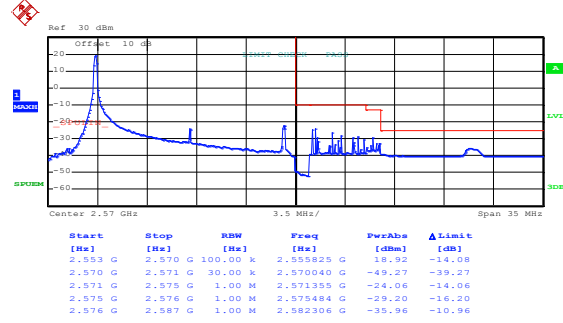
Highest channel

## LTE Band 7, BW: 15MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:56:24

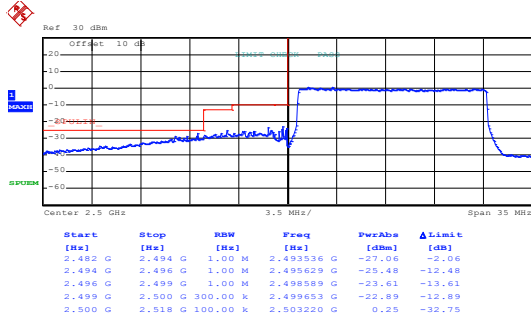
Lowest channel



Date: 26.SEP.2019 11:57:26

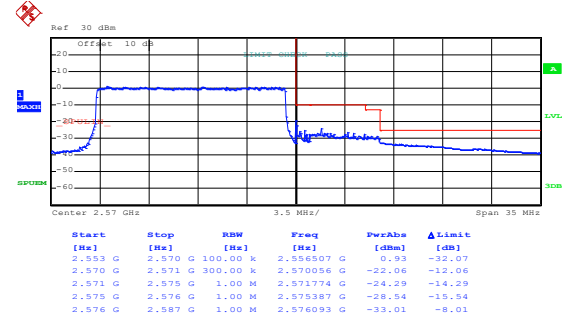
Highest channel

## QPSK & RB Size 75



Date: 26.SEP.2019 11:56:43

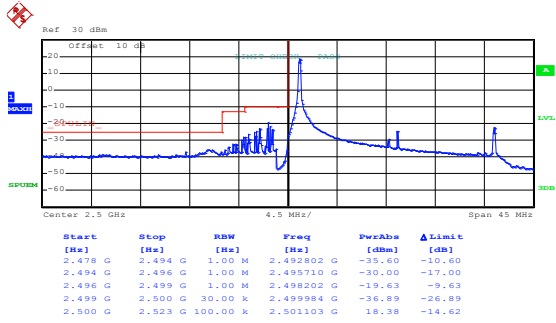
Lowest channel



Date: 26.SEP.2019 11:57:05

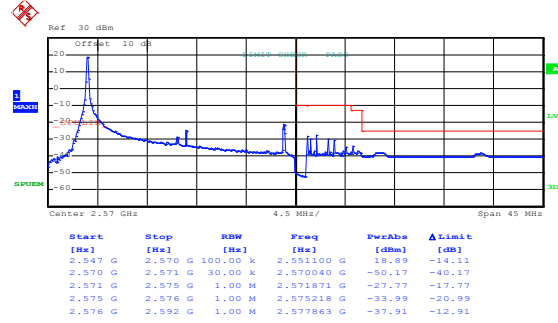
Highest channel

## LTE Band 7, BW: 20MHz 16QAM & RB Size 1



Date: 26.SEP.2019 11:59:04

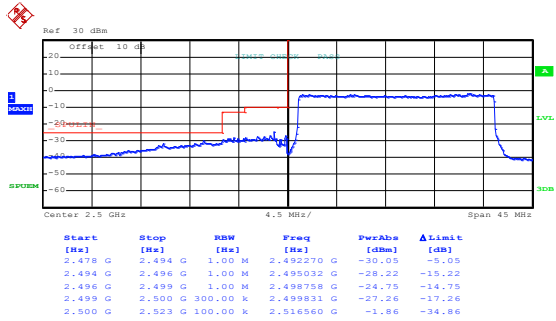
Lowest channel



Date: 26.SEP.2019 11:58:00

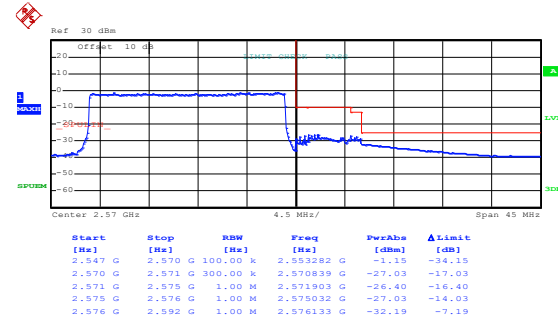
Highest channel

## 16QAM & RB Size 100



Date: 26.SEP.2019 11:58:42

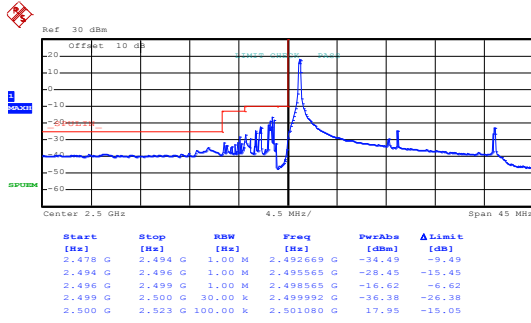
Lowest channel



Date: 26.SEP.2019 11:58:21

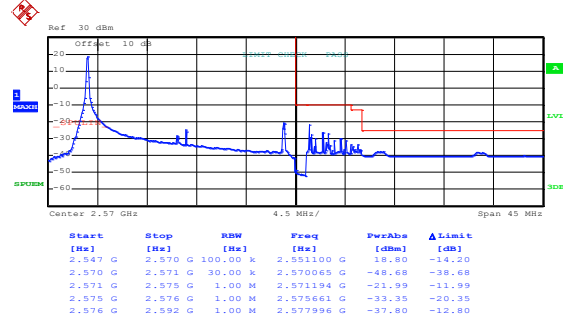
Highest channel

## LTE Band 7, BW: 20MHz QPSK & RB Size 1



Date: 26.SEP.2019 11:58:56

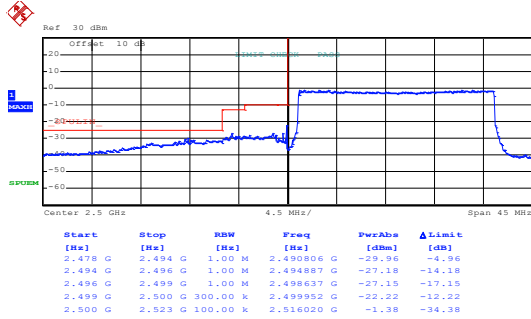
Lowest channel



Date: 26.SEP.2019 11:57:54

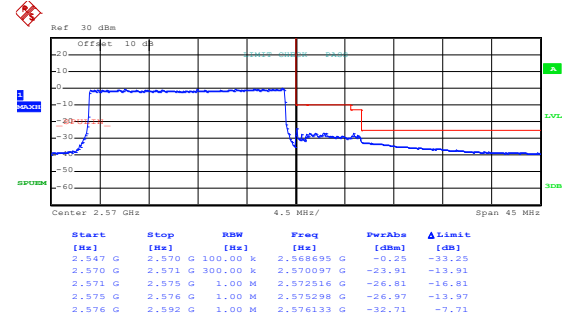
Highest channel

## QPSK & RB Size 100



Date: 26.SEP.2019 11:58:36

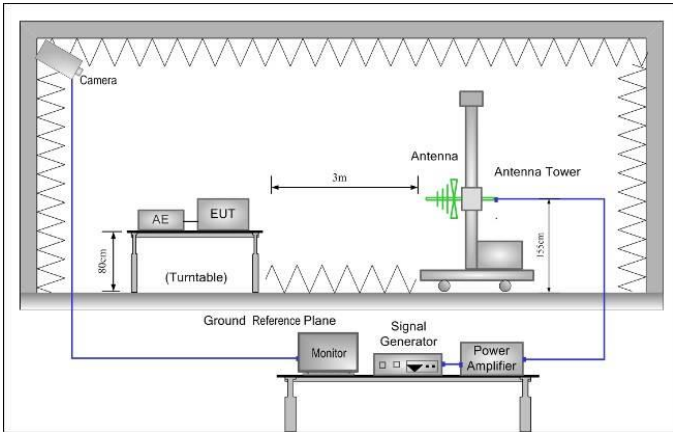
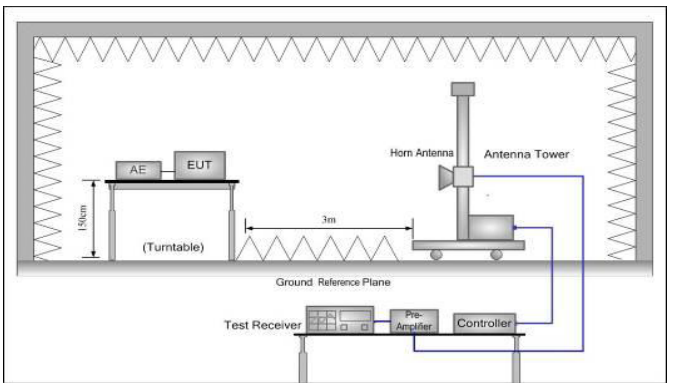
Lowest channel



Date: 26.SEP.2019 11:58:14

Highest channel

## 6.5 Field strength of spurious radiation measurement

<p>Test Requirement:</p>	<p>Part 22.917(b), Part 24.238 (a), Part 27.53(m), Part 27.53(h)</p>
<p>Limit:</p>	<p>LTE Band 2 &amp; 4 &amp; 5: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least <math>43 + 10 \log_{10}(P)</math> dB (-13 dBm).</p> <p>LTE Band 7: For mobile digital stations, the attenuation factor shall be not less than <math>40 + 10 \log (P)</math> dB on all frequencies between the channel edge and 5 megahertz from the channel edge, <math>43 + 10 \log (P)</math> dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and <math>55 + 10 \log (P)</math> dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that <math>43 + 10 \log (P)</math> dB on all frequencies between 2490.5 MHz and 2496 MHz and <math>55 + 10 \log (P)</math> dB at or below 2490.5 MHz.</p>
<p>Test setup:</p>	<p>Below 1GHz</p>  <p>Above 1GHz</p> 
<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.</li> <li>3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission</li> </ol>



	<p>was determined using the substitution method.</p> <p>4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.  <math>ERP / EIRP = S.G. \text{ output (dBm) + Antenna Gain(dB/dBi) - Cable Loss (dB)}</math></p>
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

**Measurement Data:**

**LTE Band 2 part:**

LTE Band 2, WB: 1.4MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3701.40	Vertical	-51.21	-13.00	Pass
5552.10	V	-43.20		
7402.00	V	-37.67		
3701.40	Horizontal	-50.56		
5552.10	H	-43.18		
7402.00	H	-37.54		
<b>Middle Channel</b>				
3760.00	Vertical	-51.28	-13.00	Pass
5640.00	V	-43.16		
7520.00	V	-37.97		
3760.00	Horizontal	-50.26		
5640.00	H	-43.67		
7520.00	H	-37.16		
<b>Highest Channel</b>				
3816.60	Vertical	-51.98	-13.00	Pass
5724.90	V	-43.97		
7633.20	V	-37.16		
3816.60	Horizontal	-50.47		
5724.90	H	-43.15		
7633.20	H	-37.55		
<p>Note:</p> <p>1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</p> <p>2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</p>				

LTE Band 2, WB: 20MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3720.00	Vertical	-51.85	-13.00	Pass
5580.00	V	-43.19		
7440.00	V	-37.15		
3720.00	Horizontal	-50.22		
5580.00	H	-43.79		
7440.00	H	-37.16		
<b>Middle Channel</b>				
3760.00	Vertical	-51.95	-13.00	Pass
5640.00	V	-43.22		
7520.00	V	-37.15		
3760.00	Horizontal	-50.24		
5640.00	H	-43.22		
7520.00	H	-37.97		
<b>Highest Channel</b>				
3800.00	Vertical	-51.47	-13.00	Pass
5700.00	V	-43.15		
7600.00	V	-37.92		
3800.00	Horizontal	-50.31		
5700.00	H	-43.98		
7600.00	H	-37.61		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

**LTE Band 4 part:**

LTE Band 4, WB: 1.4MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3421.40	Vertical	-50.61	-13.00	Pass
5132.10	V	-45.24		
6842.80	V	-37.82		
3421.40	Horizontal	-46.98		
5132.10	H	-45.25		
6842.80	H	-38.30		
<b>Middle Channel</b>				
3465.00	Vertical	-50.62	-13.00	Pass
5197.50	V	-45.97		
6930.00	V	-37.16		
3465.00	Horizontal	-46.24		
5197.50	H	-45.71		
6930.00	H	-38.26		
<b>Highest Channel</b>				
3508.60	Vertical	-50.47	-13.00	Pass
5262.90	V	-45.25		
7017.20	V	-37.92		
3508.60	Horizontal	-46.19		
5262.90	H	-45.71		
7017.20	H	-38.26		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 4, WB: 20MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3440.00	Vertical	-50.16	-13.00	Pass
5160.00	V	-45.29		
6880.00	V	-37.16		
3440.00	Horizontal	-46.22		
5160.00	H	-45.19		
6880.00	H	-38.53		
<b>Middle Channel</b>				
3465.00	Vertical	-50.17	-13.00	Pass
5197.50	V	-45.27		
6930.00	V	-37.26		
3465.00	Horizontal	-46.85		
5197.50	H	-45.47		
6930.00	H	-38.64		
<b>Highest Channel</b>				
3490.00	Vertical	-50.26	-13.00	Pass
5235.00	V	-45.92		
6980.00	V	-37.25		
3490.00	Horizontal	-46.63		
5235.00	H	-45.16		
6980.00	H	-38.85		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

**LTE Band 5 part:**

LTE Band 5, WB: 1.4MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
1649.40	Vertical	-60.56	-13.00	Pass
2474.10	V	-55.79		
3298.80	V	-51.31		
1649.40	Horizontal	-58.38		
2474.10	H	-51.08		
3298.80	H	-50.66		
<b>Middle Channel</b>				
1673.00	Vertical	-60.70	-13.00	Pass
2509.50	V	-55.29		
3346.00	V	-51.43		
1673.00	Horizontal	-58.60		
2509.50	H	-51.37		
3346.00	H	-50.02		
<b>Highest Channel</b>				
1696.60	Vertical	-50.25	-13.00	Pass
2544.90	V	-55.37		
3393.20	V	-51.43		
1696.60	Horizontal	-58.39		
2544.90	H	-51.15		
3393.20	H	-50.83		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 5, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
1658.00	Vertical	-60.47	-13.00	Pass
2487.00	V	-55.26		
3316.00	V	-51.30		
1658.00	Horizontal	-58.24		
2487.00	H	-51.31		
3316.00	H	-50.19		
<b>Middle Channel</b>				
1673.00	Vertical	-60.27	-13.00	Pass
2509.50	V	-55.41		
3346.00	V	-51.39		
1673.00	Horizontal	-58.61		
2509.50	H	-51.47		
3346.00	H	-50.44		
<b>Highest Channel</b>				
1688.00	Vertical	-50.67	-13.00	Pass
2532.00	V	-55.39		
3376.00	V	-51.47		
1688.00	Horizontal	-58.16		
2532.00	H	-51.95		
3376.00	H	-50.16		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

**LTE Band 7 part:**

LTE Band 7, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
5005.00	Vertical	-44.69	-25.00	Pass
7507.50	V	-38.29		
10010.00	V	-35.18		
5005.00	Horizontal	-45.94		
7507.50	H	-38.37		
10010.00	H	-34.26		
<b>Middle Channel</b>				
5070.00	Vertical	-44.92	-25.00	Pass
7605.00	V	-38.41		
10140.00	V	-35.26		
5070.00	Horizontal	-45.13		
7605.00	H	-38.92		
10140.00	H	-34.84		
<b>Highest Channel</b>				
5135.00	Vertical	-44.24	-25.00	Pass
7702.50	V	-38.15		
10270.00	V	-35.23		
5135.00	Horizontal	-45.71		
7702.50	H	-38.64		
10270.00	H	-34.22		
<p>Note:</p> <ol style="list-style-type: none"> <li>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</li> <li>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</li> </ol>				

LTE Band 7, WB: 20MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
5020.00	Vertical	-44.47	-25.00	Pass
7530.00	V	-38.61		
10040.00	V	-35.24		
5020.00	Horizontal	-45.13		
7530.00	H	-38.62		
10040.00	H	-34.57		
<b>Middle Channel</b>				
5070.00	Vertical	-44.18	-25.00	Pass
7605.00	V	-38.26		
10140.00	V	-35.97		
5070.00	Horizontal	-45.22		
7605.00	H	-38.91		
10140.00	H	-34.26		
<b>Highest Channel</b>				
5120.00	Vertical	-44.95	-25.00	Pass
7680.00	V	-38.64		
10240.00	V	-35.15		
5120.00	Horizontal	-45.19		
7680.00	H	-38.64		
10240.00	H	-34.27		
<i>Note:</i>				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				



## 6.6 Frequency stability V.S. Temperature measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(a)(1)(b)
Limit:	±2.5 ppm for Band 5 Within authorized band for Band 2/4/7
Test setup:	
Test procedure:	<ol style="list-style-type: none"> <li>1. The equipment under test was connected to an external DC power supply and input rated voltage.</li> <li>2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.</li> <li>3. The EUT was placed inside the temperature chamber.</li> <li>4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.</li> <li>5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.</li> <li>6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached</li> </ol>
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

**Measurement Data (worst case):**

**LTE Band 2 part:**

Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
<b>QPSK</b>					
3.85	-30	187	0.099468	Within authorized band 2	Pass
	-20	165	0.087766		
	-10	132	0.070213		
	0	145	0.077128		
	10	168	0.089362		
	20	174	0.092553		
	30	102	0.054255		
	40	109	0.057979		
	50	138	0.073404		
<b>16QAM</b>					
3.85	-30	166	0.088298	Within authorized band 2	Pass
	-20	132	0.070213		
	-10	104	0.055319		
	0	114	0.060638		
	10	155	0.082447		
	20	168	0.089362		
	30	137	0.072872		
	40	118	0.062766		
	50	122	0.064894		
<i>Note: Only the worst case shown in the report.</i>					

**LTE Band 4 part:**

Reference Frequency: LTE Band 4 (10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
<b>QPSK</b>					
3.85	-30	186	0.107359	Within authorized band 4	Pass
	-20	124	0.071573		
	-10	159	0.091775		
	0	137	0.079076		
	10	168	0.096970		
	20	147	0.084848		
	30	107	0.061760		
	40	158	0.091198		
	50	169	0.097547		
<b>16QAM</b>					
3.85	-30	190	0.109668	Within authorized band 4	Pass
	-20	147	0.084848		
	-10	186	0.107359		
	0	173	0.099856		
	10	156	0.090043		
	20	160	0.092352		
	30	178	0.102742		
	40	160	0.092352		
	50	120	0.069264		

*Note: Only the worst case shown in the report.*

**LTE Band 5 part:**

Reference Frequency: LTE Band 5 (10MHz) Middle channel=20525 channel=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
<b>QPSK</b>					
3.85	-30	188	0.224746	±2.5	Pass
	-20	147	0.175732		
	-10	169	0.202032		
	0	128	0.153019		
	10	138	0.164973		
	20	158	0.188882		
	30	180	0.215182		
	40	176	0.210400		
	50	177	0.211596		
<b>16QAM</b>					
3.85	-30	179	0.213987	±2.5	Pass
	-20	108	0.129109		
	-10	106	0.126718		
	0	147	0.175732		
	10	155	0.185296		
	20	163	0.194860		
	30	133	0.158996		
	40	145	0.173341		
	50	152	0.181710		
<i>Note: Only the worst case shown in the report.</i>					

**LTE Band 7 part:**

Reference Frequency: LTE Band 7 (10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
<b>QPSK</b>					
3.85	-30	175	0.069034	Within authorized band 7	Pass
	-20	165	0.065089		
	-10	148	0.058383		
	0	132	0.052071		
	10	109	0.042998		
	20	108	0.042604		
	30	120	0.047337		
	40	144	0.056805		
	50	163	0.064300		
<b>16QAM</b>					
3.85	-30	163	0.064300	Within authorized band 7	Pass
	-20	121	0.047732		
	-10	103	0.040631		
	0	113	0.044576		
	10	147	0.057988		
	20	168	0.066272		
	30	158	0.062327		
	40	122	0.048126		
	50	149	0.058777		
<i>Note: Only the worst case shown in the report.</i>					

## 6.7 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(d)(2)
Limit:	±2.5 ppm for Band 5 Within authorized band for Band 2/4/7
Test setup:	<p>The diagram illustrates the test setup. A Power Source is connected to a Divider. The Divider is connected to two Spectrum Analyzers (SS and SA) and an EUT (Equipment Under Test) inside a Temperature &amp; Humidity Chamber. The Power Source is also connected to the EUT.</p>
Test procedure:	<ol style="list-style-type: none"> <li>1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</li> </ol>
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

**Measurement Data (worst case):**

**LTE Band 2 part:**

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.40	87	0.046277	Within authorized band for Band 2	Pass
	3.85	56	0.029787		
	3.50	23	0.012234		
16QAM					
25	4.40	74	0.039362	Within authorized band for Band 2	Pass
	3.80	58	0.030851		
	3.50	69	0.036702		

*Note: Only the worst case shown in the report.*

**LTE Band 4 part:**

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.40	96	0.055411	Within authorized band for Band 4	Pass
	3.80	32	0.018470		
	3.50	41	0.023665		
16QAM					
25	4.40	86	0.049639	Within authorized band for Band 4	Pass
	3.80	48	0.027706		
	3.50	74	0.042713		

*Note: Only the worst case shown in the report.*

**LTE Band 5 part:**

Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 channel=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.40	66	0.078900	±2.5	Pass
	3.80	32	0.038255		
	3.50	14	0.016736		
16QAM					
25	4.40	45	0.053796	±2.5	Pass
	3.80	32	0.038255		
	3.50	28	0.033473		

*Note: Only the worst case shown in the report.*

**LTE Band 7 part:**

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.40	96	0.037870	Within authorized band for Band 7	Pass
	3.80	35	0.013807		
	3.50	47	0.018540		
16QAM					
25	4.40	45	0.017751	Within authorized band for Band 7	Pass
	3.80	32	0.012623		
	3.50	40	0.015779		
<i>Note: Only the worst case shown in the report.</i>					