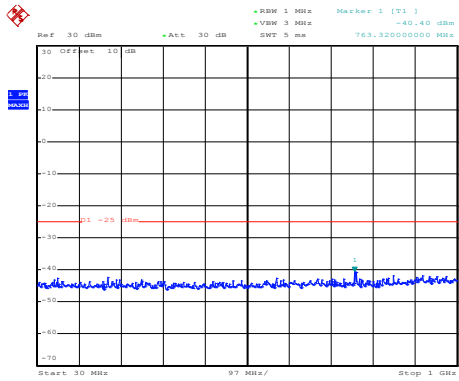
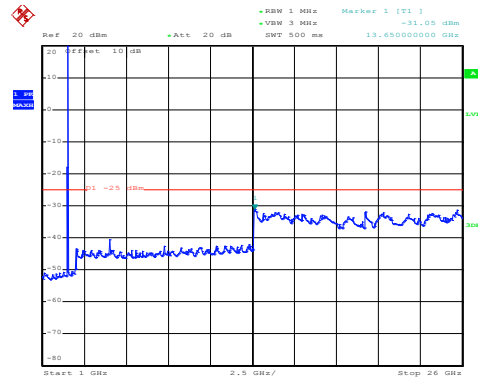


## LTE Band 7: QPSK & RB Size 25 BW: 5MHz Lowest channel



Date: 10.OCT.2019 11:59:29

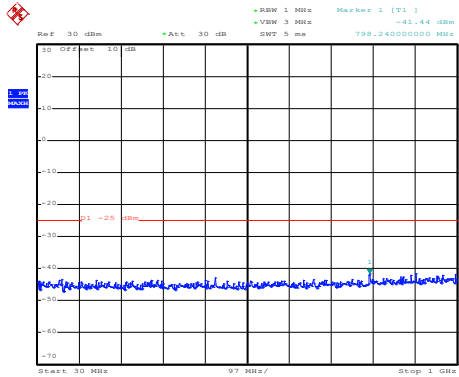
30MHz~1GHz



Date: 10.OCT.2019 16:22:16

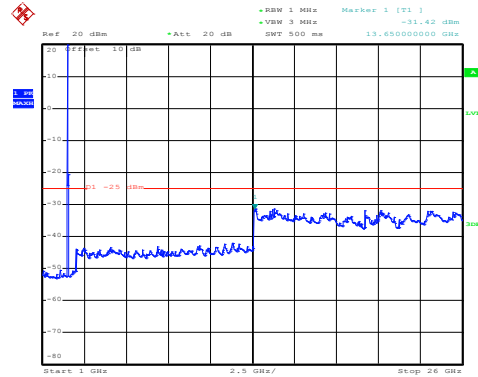
1GHz~25GHz

## Middle channel



Date: 10.OCT.2019 11:59:42

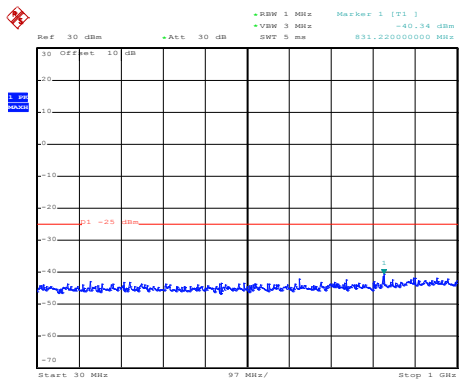
30MHz~1GHz



Date: 10.OCT.2019 16:22:38

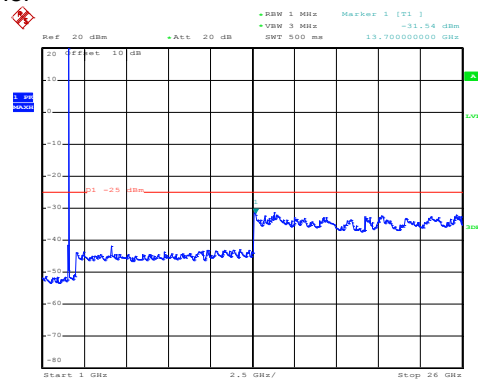
1GHz~25GHz

## High channel



Date: 10.OCT.2019 12:00:21

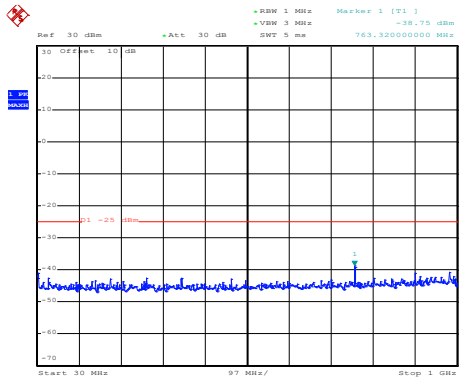
30MHz~1GHz



Date: 10.OCT.2019 16:25:05

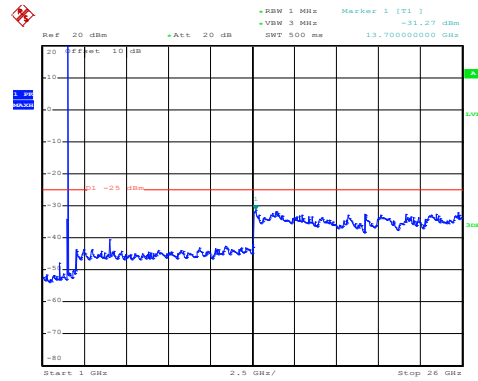
1GHz~25GHz

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



Date: 10.OCT.2019 12:00:54

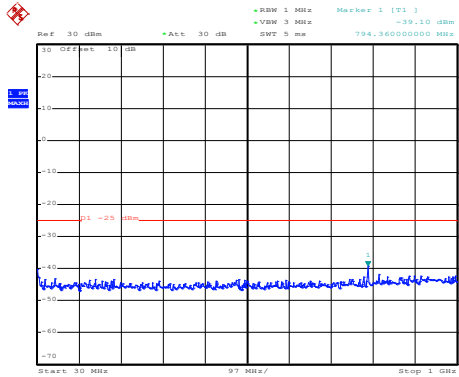
30MHz~1GHz



Date: 10.OCT.2019 16:27:36

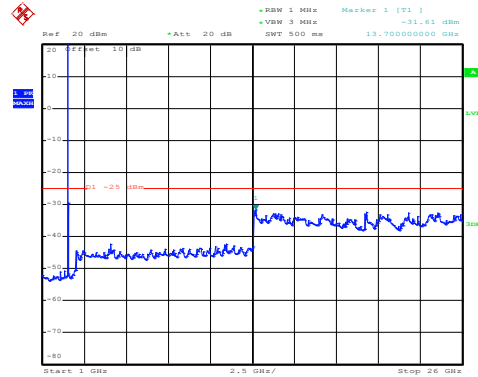
1GHz~25GHz

## Middle channel



Date: 10.OCT.2019 12:01:31

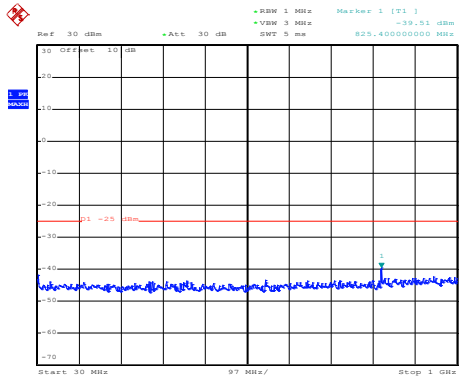
30MHz~1GHz



Date: 10.OCT.2019 16:28:43

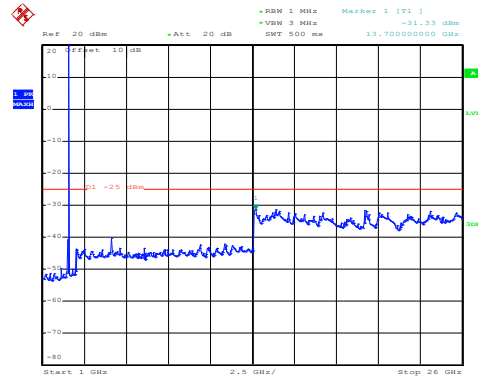
1GHz~25GHz

## High channel



Date: 10.OCT.2019 12:01:44

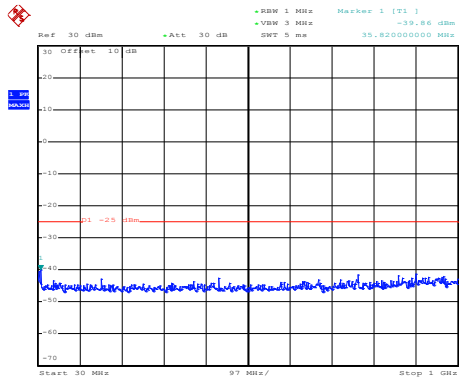
30MHz~1GHz



Date: 10.OCT.2019 16:29:13

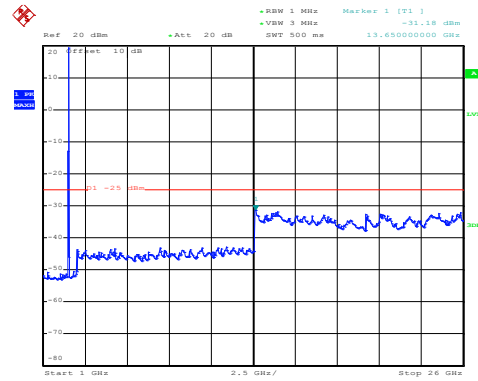
1GHz~25GHz

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



Date: 10.OCT.2019 12:01:07

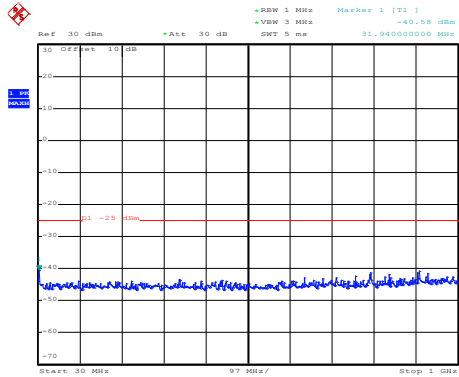
30MHz~1GHz



Date: 10.OCT.2019 16:27:59

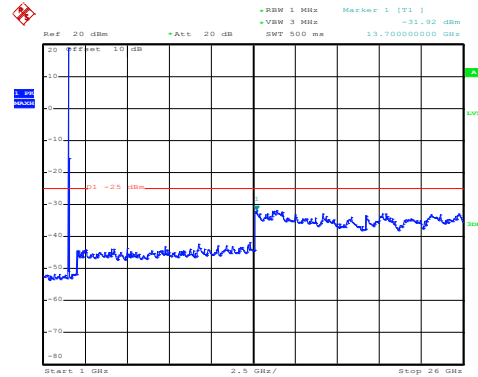
1GHz~25GHz

## Middle channel



Date: 10.OCT.2019 12:01:19

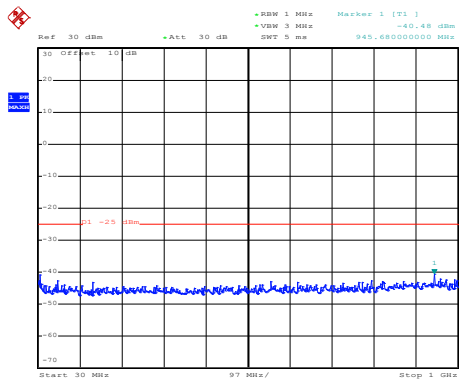
30MHz~1GHz



Date: 10.OCT.2019 16:28:15

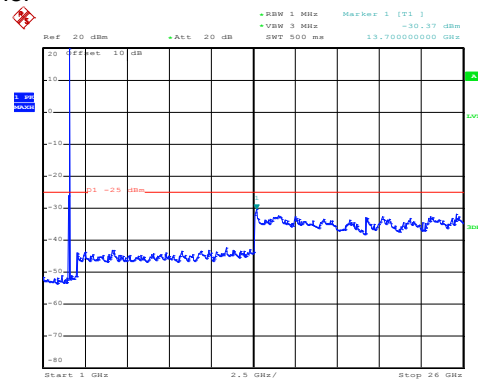
1GHz~25GHz

## High channel



Date: 10.OCT.2019 12:01:58

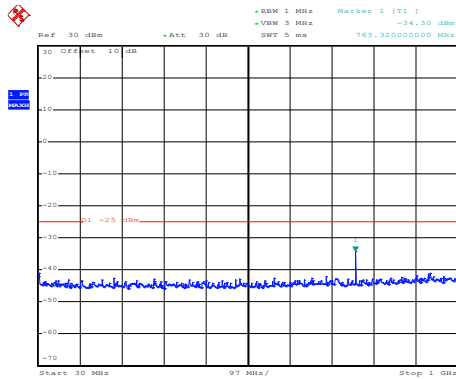
30MHz~1GHz



Date: 10.OCT.2019 16:29:36

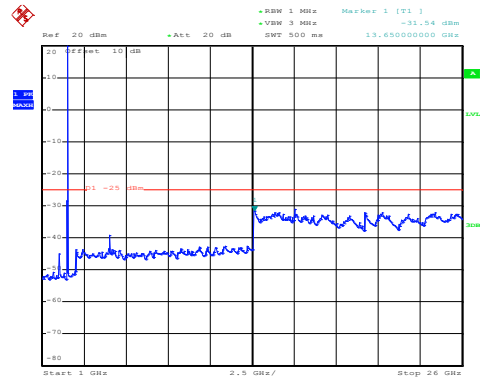
1GHz~25GHz

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



Date: 10.OCT.2019 12:00:48

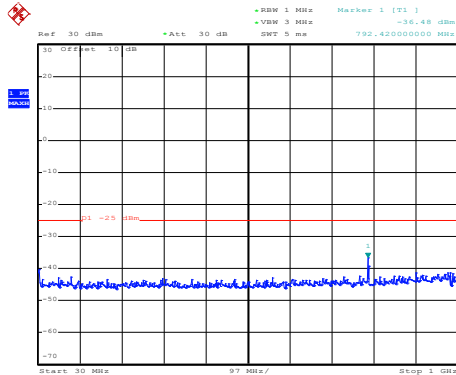
30MHz~1GHz



Date: 10.OCT.2019 16:27:28

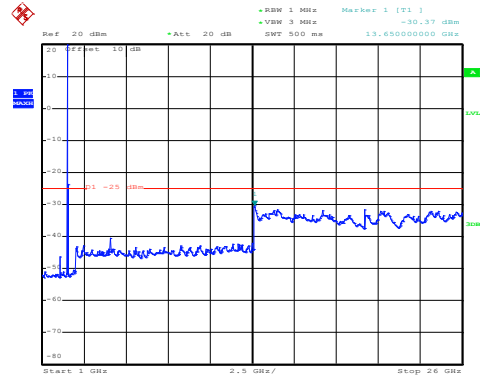
1GHz~25GHz

## Middle channel



Date: 10.OCT.2019 12:01:26

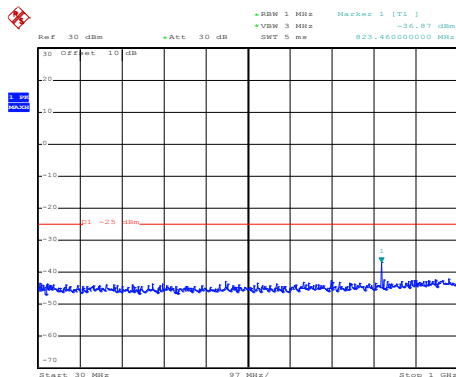
30MHz~1GHz



Date: 10.OCT.2019 16:28:36

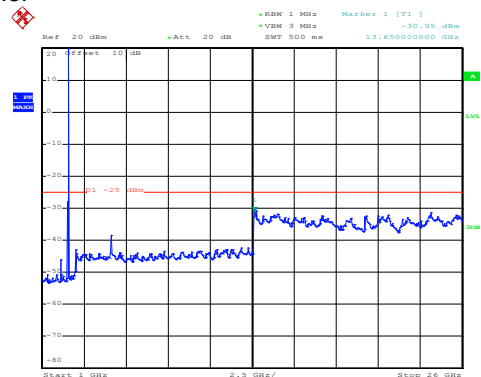
1GHz~25GHz

## High channel



Date: 10.OCT.2019 12:01:39

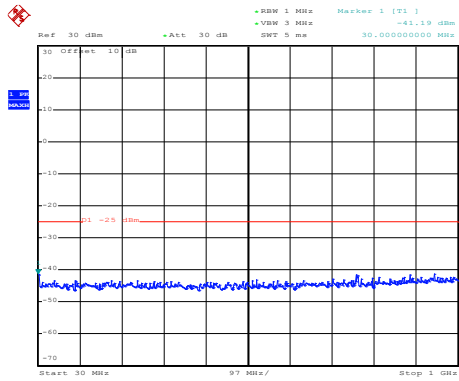
30MHz~1GHz



Date: 10.OCT.2019 16:29:04

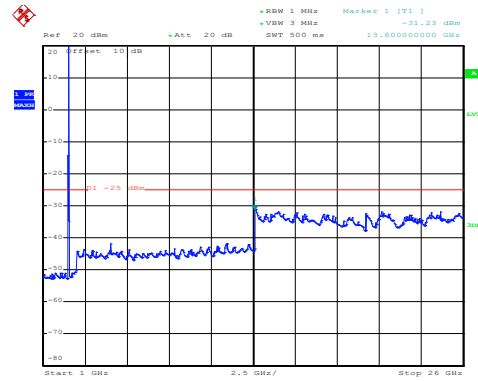
1GHz~25GHz

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



Date: 10.OCT.2019 12:01:02

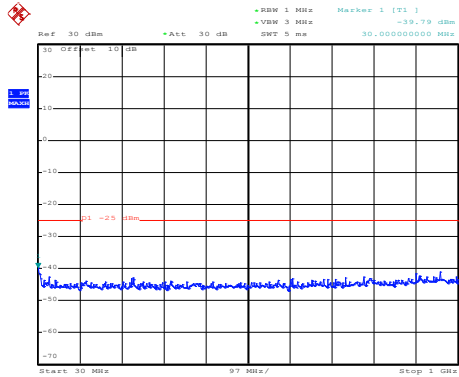
30MHz~1GHz



Date: 10.OCT.2019 16:27:50

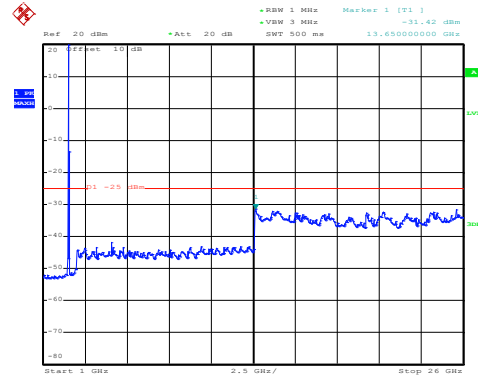
1GHz~25GHz

## Middle channel



Date: 10.OCT.2019 12:01:14

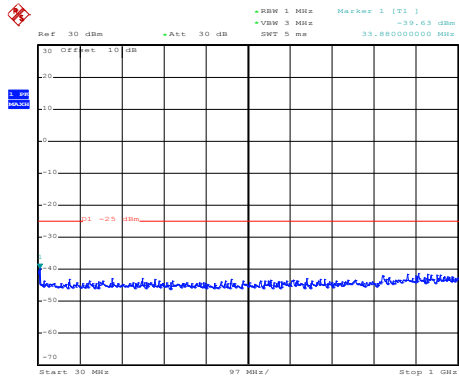
30MHz~1GHz



Date: 10.OCT.2019 16:28:09

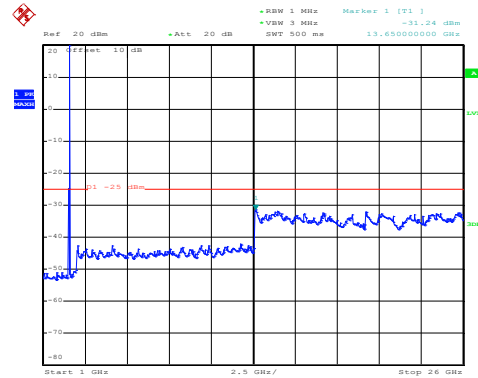
1GHz~25GHz

## High channel



Date: 10.OCT.2019 12:01:53

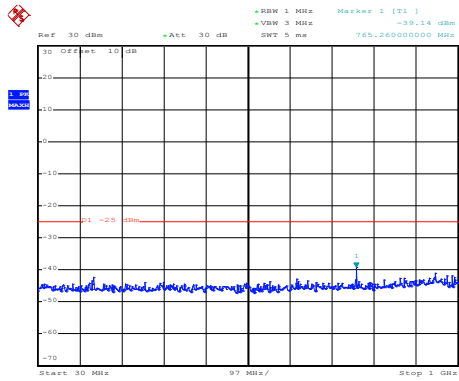
30MHz~1GHz



Date: 10.OCT.2019 16:29:27

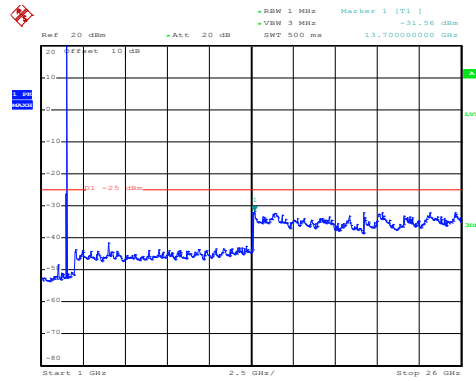
1GHz~25GHz

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



Date: 10.OCT.2019 12:02:31

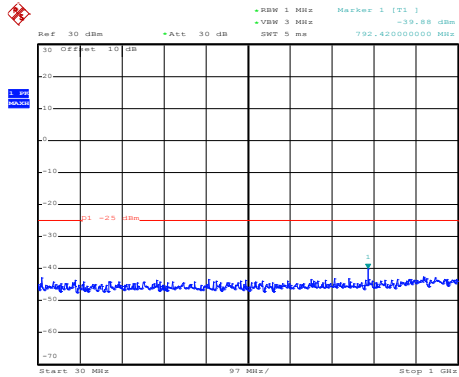
30MHz~1GHz



Date: 10.OCT.2019 16:30:08

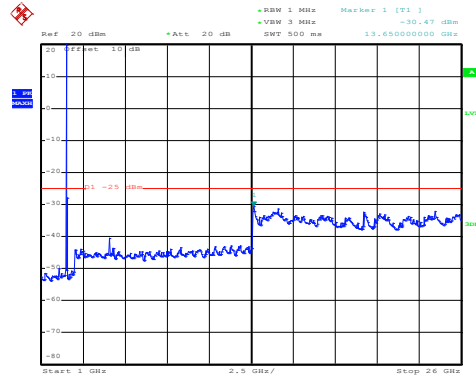
1GHz~25GHz

## Middle channel



Date: 10.OCT.2019 12:03:17

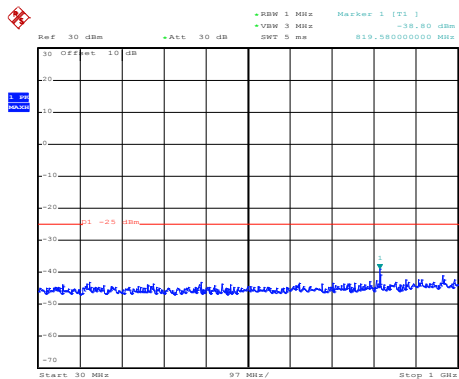
30MHz~1GHz



Date: 10.OCT.2019 16:31:17

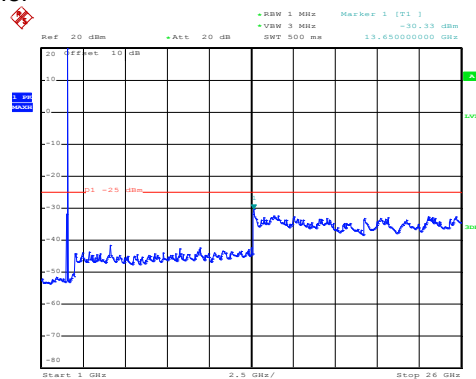
1GHz~25GHz

## High channel



Date: 10.OCT.2019 12:03:29

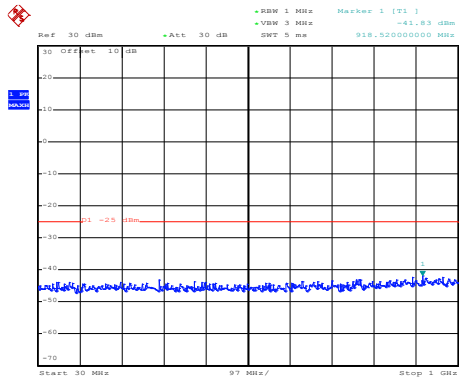
30MHz~1GHz



Date: 10.OCT.2019 16:31:37

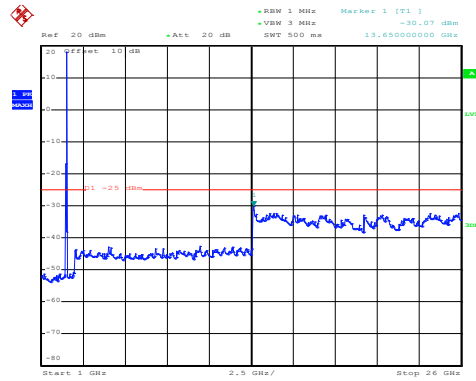
1GHz~25GHz

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



Date: 10.OCT.2019 12:02:51

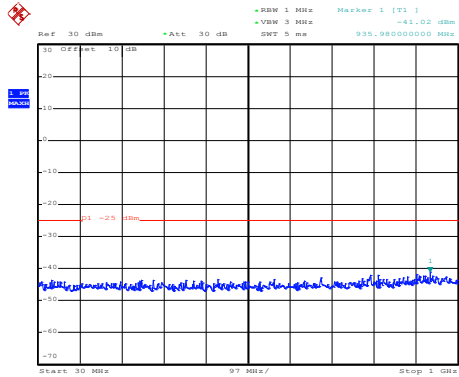
30MHz~1GHz



Date: 10.OCT.2019 16:30:37

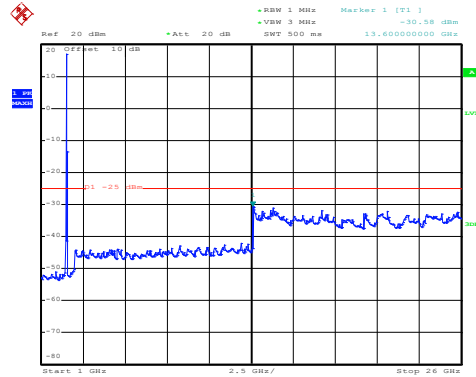
1GHz~25GHz

## Middle channel



Date: 10.OCT.2019 12:03:04

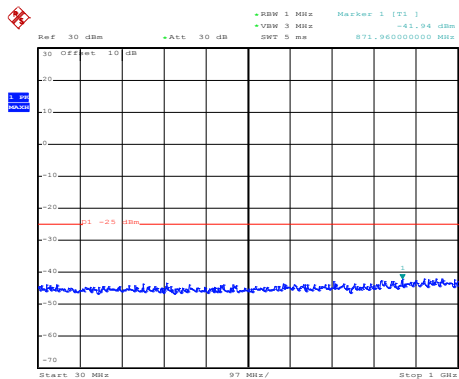
30MHz~1GHz



Date: 10.OCT.2019 16:30:57

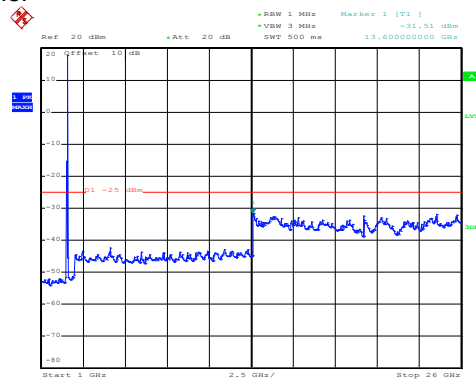
1GHz~25GHz

## High channel



Date: 10.OCT.2019 12:03:44

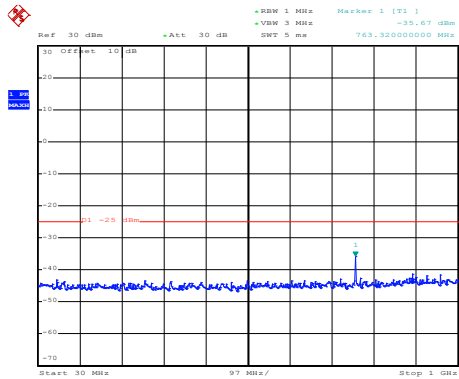
30MHz~1GHz



Date: 10.OCT.2019 16:32:09

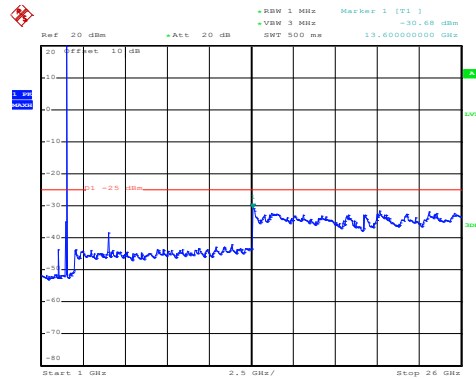
1GHz~25GHz

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



Date: 10.OCT.2019 12:02:37

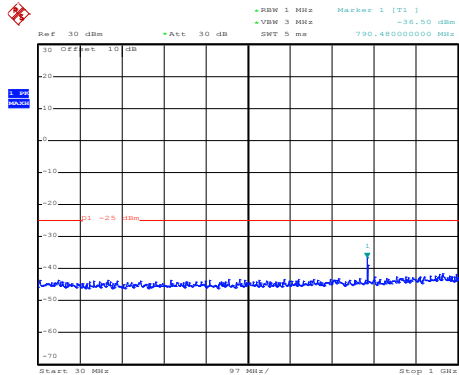
30MHz~1GHz



Date: 10.OCT.2019 16:30:01

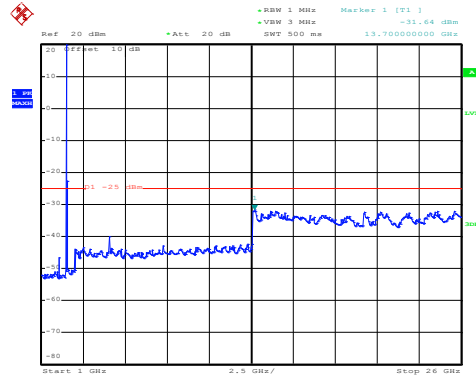
1GHz~25GHz

## Middle channel



Date: 10.OCT.2019 12:03:12

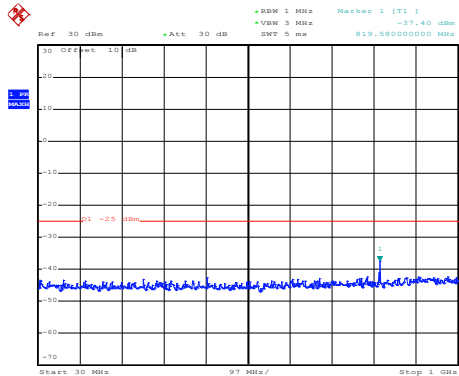
30MHz~1GHz



Date: 10.OCT.2019 16:31:10

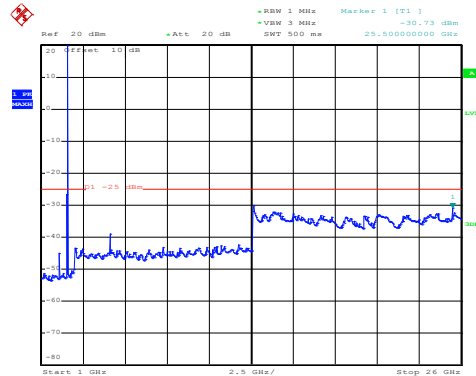
1GHz~25GHz

## High channel



Date: 10.OCT.2019 12:03:24

30MHz~1GHz

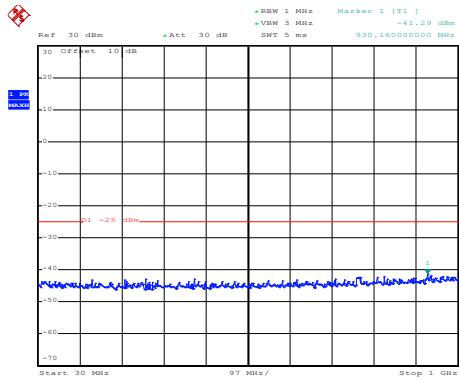


Date: 10.OCT.2019 16:31:30

1GHz~25GHz

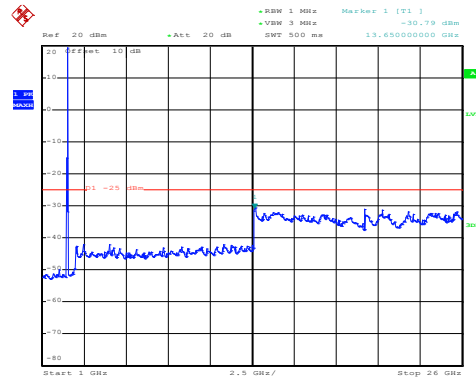


## LTE Band 7: QPSK & RB Size 75 BW: 15MHz Lowest channel



Date: 10.OCT.2019 12:02:46

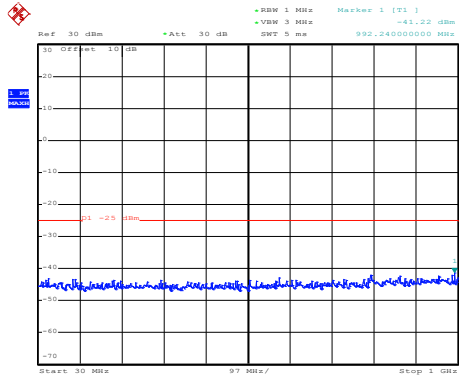
30MHz~1GHz



Date: 10.OCT.2019 16:30:29

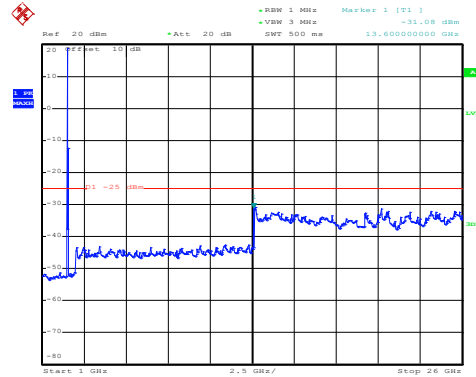
1GHz~25GHz

## Middle channel



Date: 10.OCT.2019 12:03:00

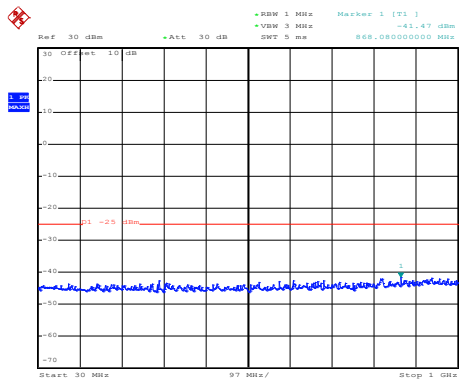
30MHz~1GHz



Date: 10.OCT.2019 16:30:49

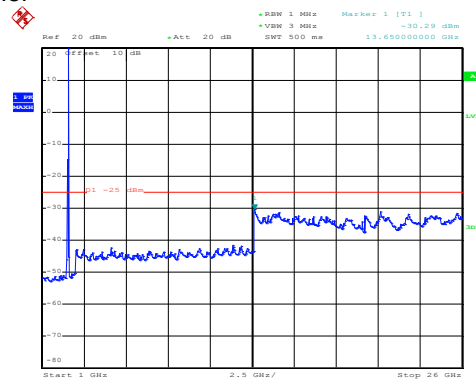
1GHz~25GHz

## High channel



Date: 10.OCT.2019 12:03:37

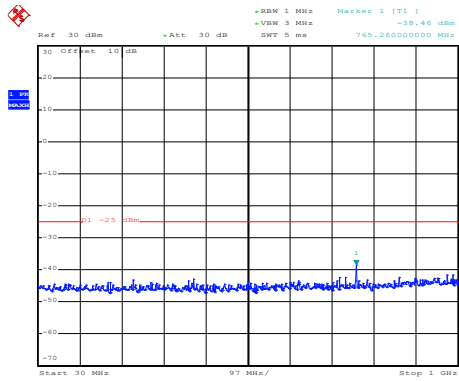
30MHz~1GHz



Date: 10.OCT.2019 16:32:02

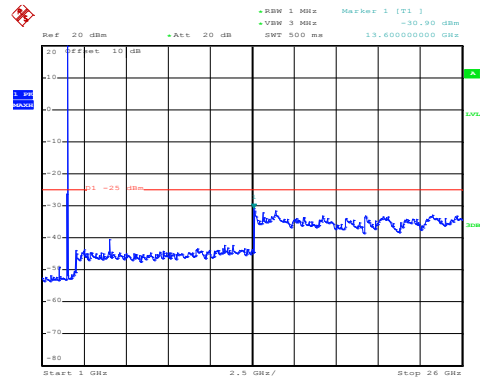
1GHz~25GHz

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



Date: 10.OCT.2019 12:04:06

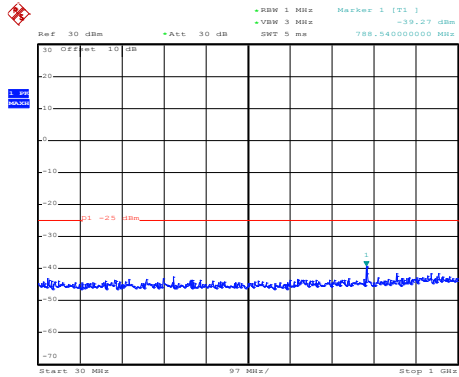
30MHz~1GHz



Date: 10.OCT.2019 16:32:54

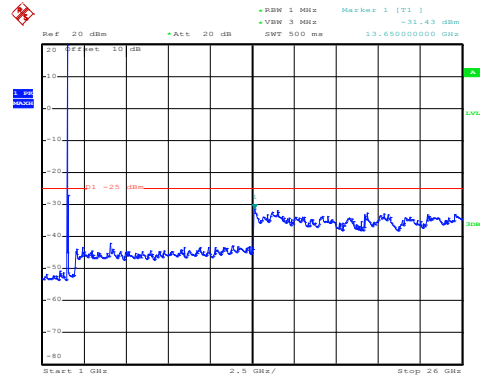
1GHz~25GHz

## Middle channel



Date: 10.OCT.2019 12:04:45

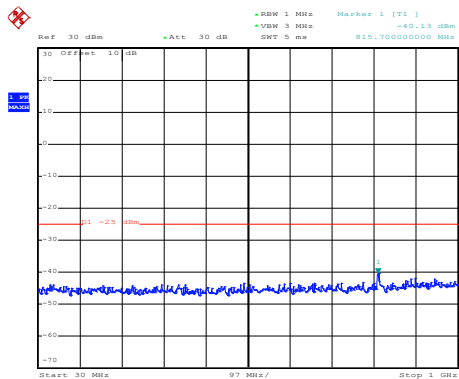
30MHz~1GHz



Date: 10.OCT.2019 16:33:57

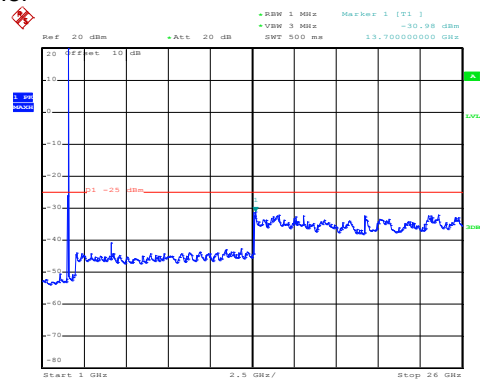
1GHz~25GHz

## High channel



Date: 10.OCT.2019 12:04:58

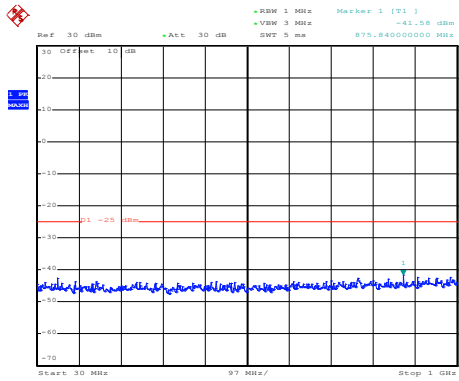
30MHz~1GHz



Date: 10.OCT.2019 16:34:24

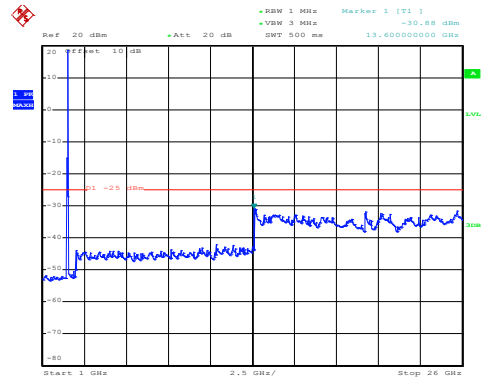
1GHz~25GHz

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



Date: 10.OCT.2019 12:04:18

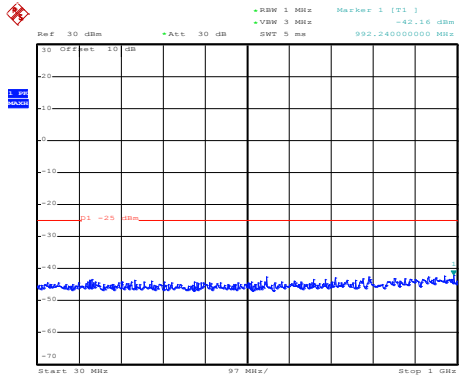
30MHz~1GHz



Date: 10.OCT.2019 16:33:11

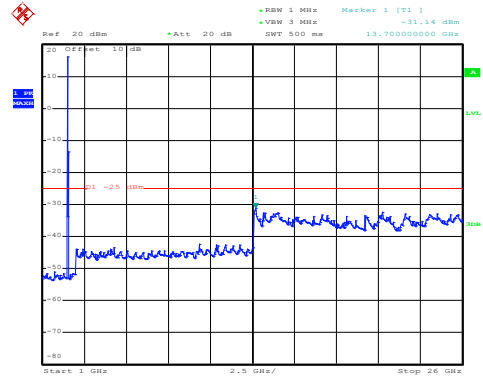
1GHz~25GHz

Middle channel



Date: 10.OCT.2019 12:04:32

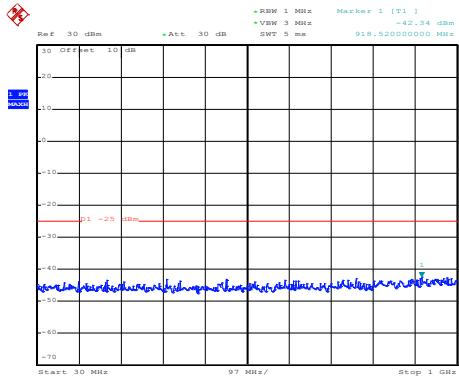
30MHz~1GHz



Date: 10.OCT.2019 16:33:33

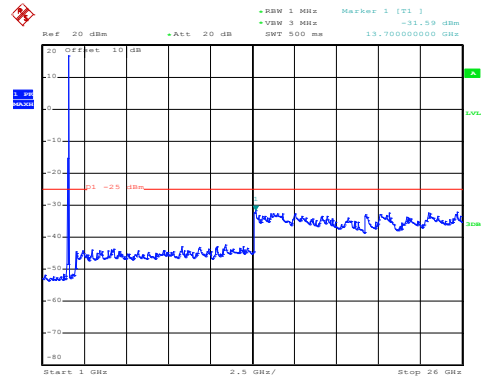
1GHz~25GHz

High channel



Date: 10.OCT.2019 12:05:10

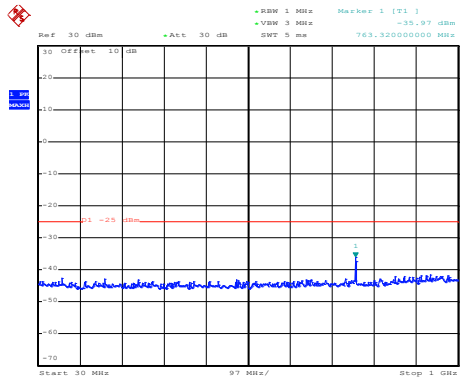
30MHz~1GHz



Date: 10.OCT.2019 16:34:41

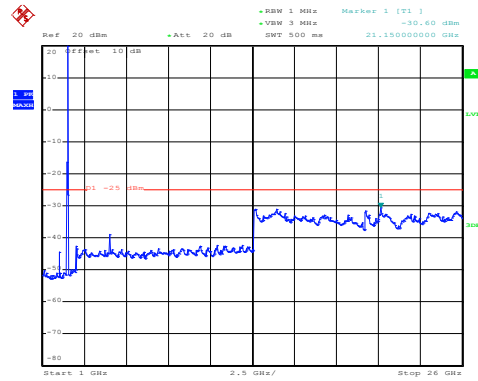
1GHz~25GHz

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



Date: 10.OCT.2019 12:04:01

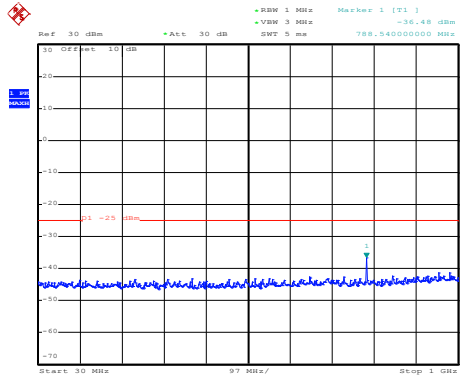
30MHz~1GHz



Date: 10.OCT.2019 16:32:48

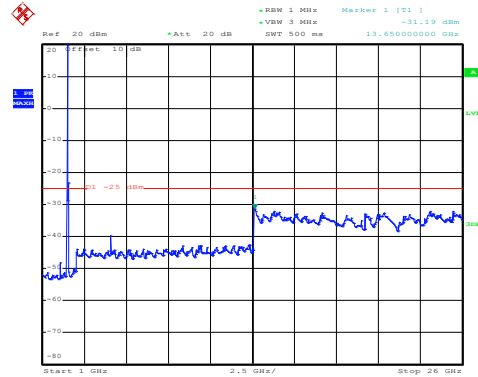
1GHz~25GHz

## Middle channel



Date: 10.OCT.2019 12:04:39

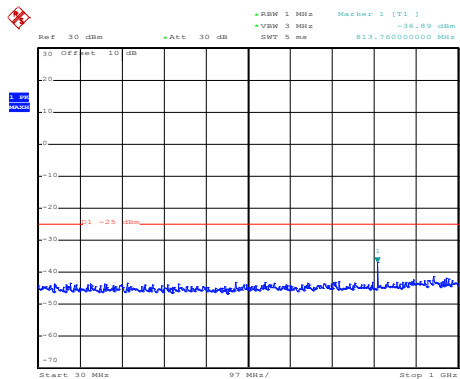
30MHz~1GHz



Date: 10.OCT.2019 16:33:49

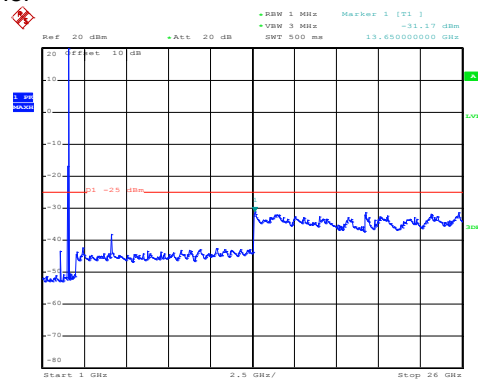
1GHz~25GHz

## High channel



Date: 10.OCT.2019 12:04:53

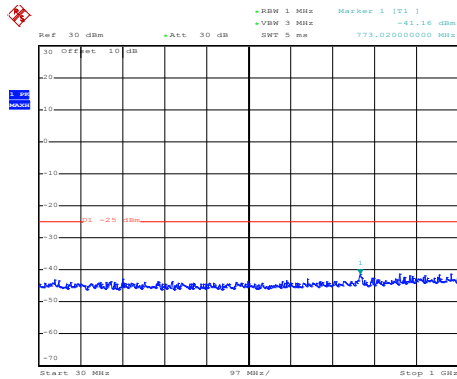
30MHz~1GHz



Date: 10.OCT.2019 16:34:17

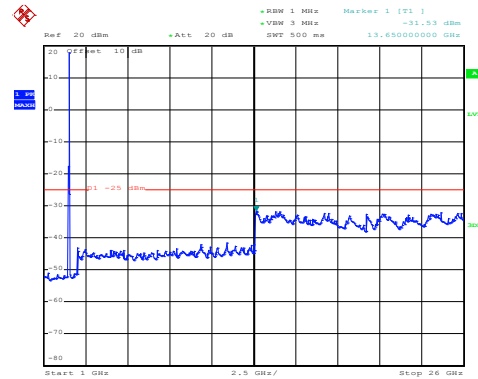
1GHz~25GHz

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



Date: 10.OCT.2019 12:04:14

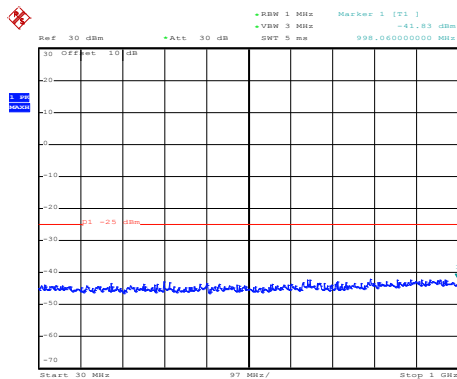
30MHz~1GHz



Date: 10.OCT.2019 16:33:04

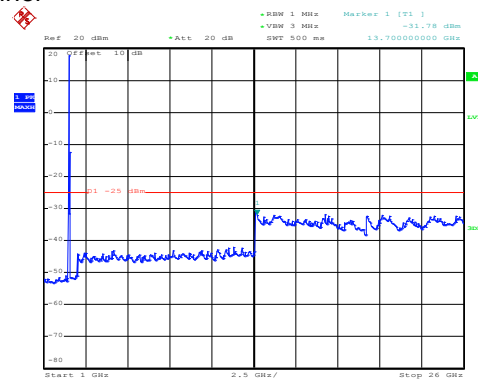
1GHz~25GHz

## Middle channel



Date: 10.OCT.2019 12:04:27

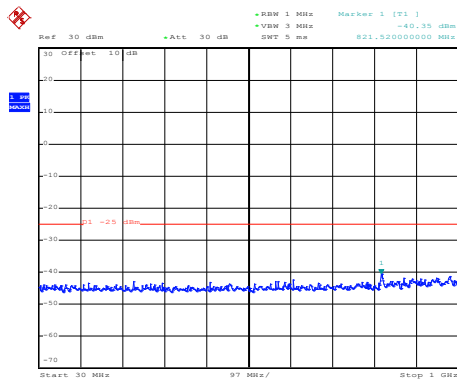
30MHz~1GHz



Date: 10.OCT.2019 16:33:26

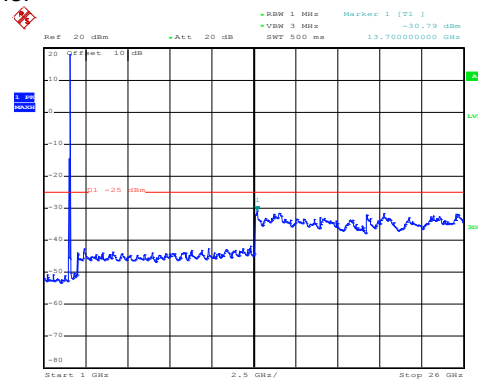
1GHz~25GHz

## High channel



Date: 10.OCT.2019 12:05:05

30MHz~1GHz



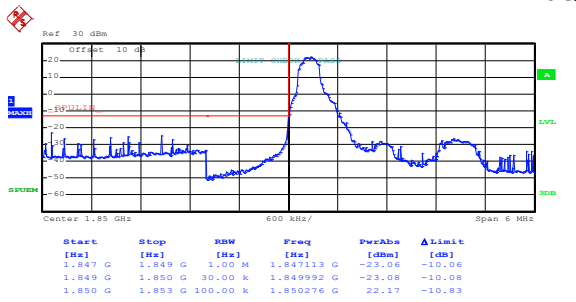
Date: 10.OCT.2019 16:34:35

1GHz~25GHz

**Band edge emission:**

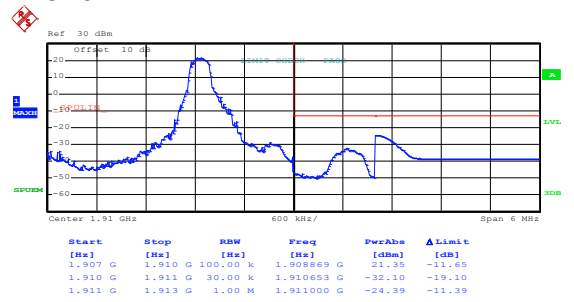
**LTE Band 2 part:**

LTE Band 2, BW: 1.4MHz  
16QAM & RB Size 1



Date: 10.OCT.2019 10:30:08

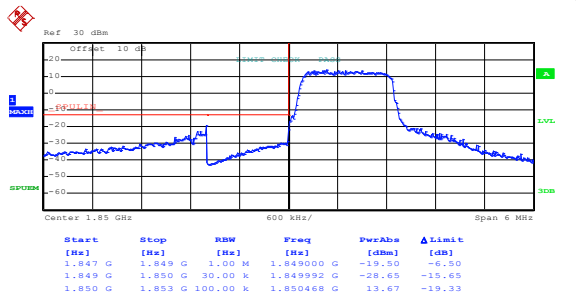
Lowest channel



Date: 10.OCT.2019 10:30:48

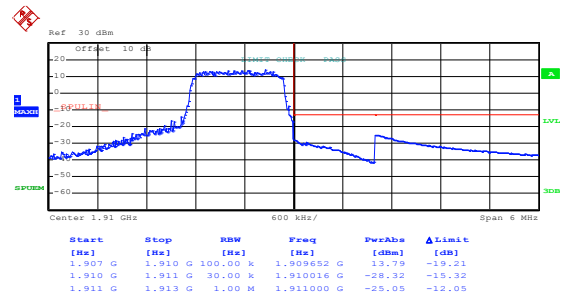
Highest channel

16QAM & RB Size 6



Date: 10.OCT.2019 10:30:20

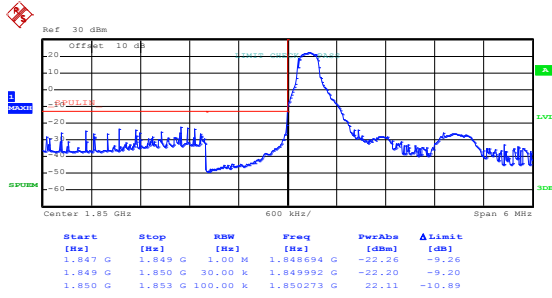
Lowest channel



Date: 10.OCT.2019 10:30:36

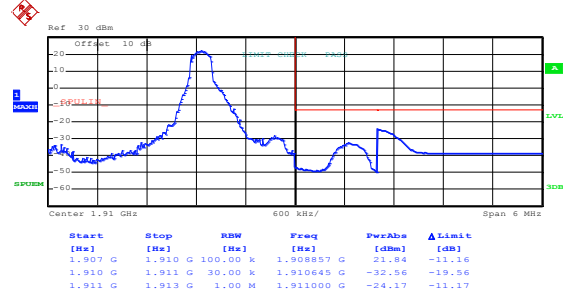
Highest channel

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



Date: 10.OCT.2019 10:30:02

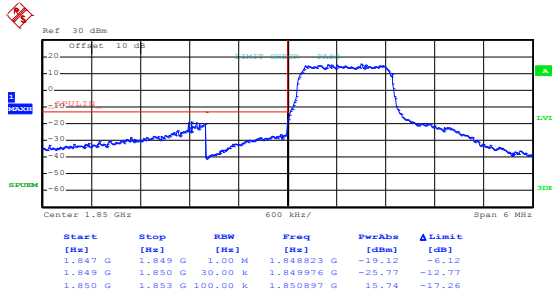
Lowest channel



Date: 10.OCT.2019 10:30:43

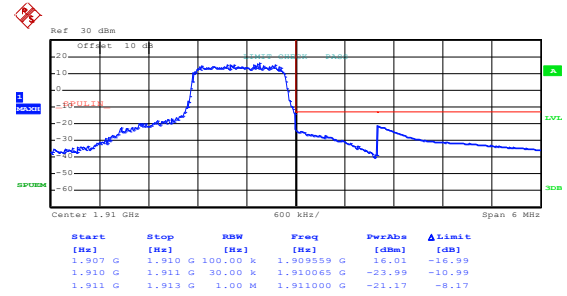
Highest channel

## QPSK & RB Size 6



Date: 10.OCT.2019 10:30:15

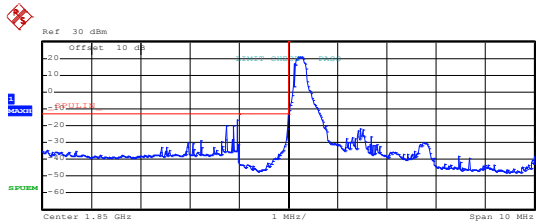
Lowest channel



Date: 10.OCT.2019 10:30:31

Highest channel

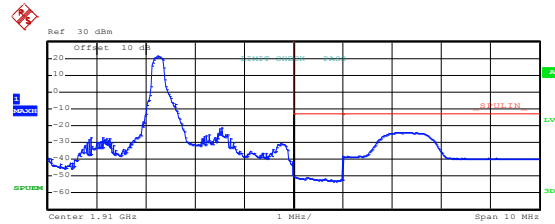
## LTE Band 2, BW: 3MHz 16QAM & RB Size 1



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.845 G	1.849 G	1.00 M	1.849968 G	-16.72	-9.72
1.849 G	1.850 G	30.00 k	1.849992 G	-24.23	-11.23
1.850 G	1.855 G	100.00 k	1.850200 G	21.13	-11.87

Date: 10.OCT.2019 10:32:50

Lowest channel

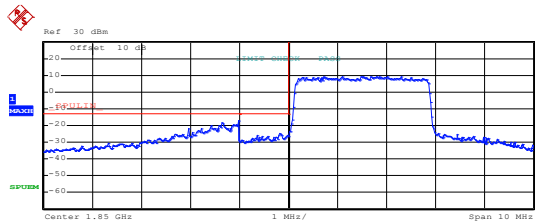


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.905 G	1.910 G	100.00 k	1.907245 G	21.55	-11.47
1.910 G	1.911 G	30.00 k	1.910282 G	-50.56	-37.56
1.911 G	1.915 G	1.00 M	1.912387 G	-24.10	-11.10

Date: 10.OCT.2019 10:31:25

Highest channel

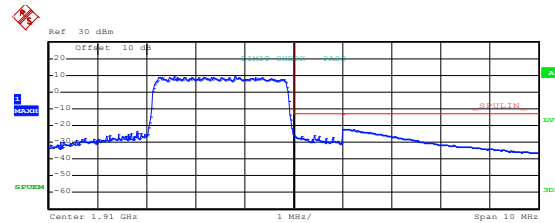
## 16QAM & RB Size 15



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.845 G	1.849 G	1.00 M	1.849000 G	-16.96	-9.96
1.849 G	1.850 G	100.00 k	1.849815 G	-24.52	-11.52
1.850 G	1.855 G	100.00 k	1.851800 G	9.50	-23.50

Date: 10.OCT.2019 10:32:15

Lowest channel



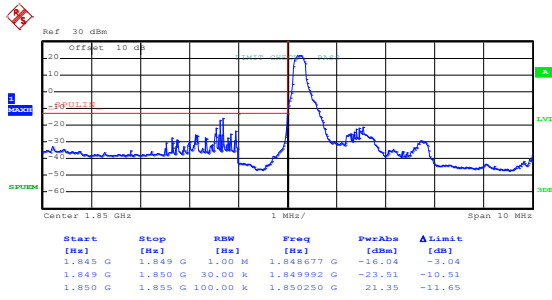
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.905 G	1.910 G	100.00 k	1.907550 G	9.11	-23.69
1.910 G	1.911 G	100.00 k	1.910008 G	-24.94	-11.94
1.911 G	1.915 G	1.00 M	1.911065 G	-22.07	-9.07

Date: 10.OCT.2019 10:31:45

Highest channel

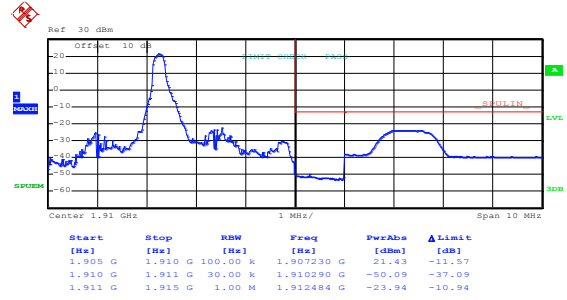


## LTE Band 2, BW: 3MHz QPSK & RB Size 1



Date: 10.OCT.2019 10:32:45

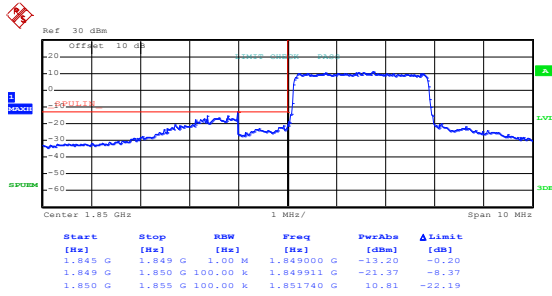
Lowest channel



Date: 10.OCT.2019 10:31:16

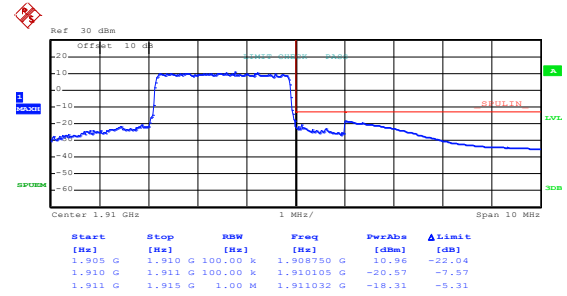
Highest channel

## QPSK & RB Size 15



Date: 10.OCT.2019 10:32:08

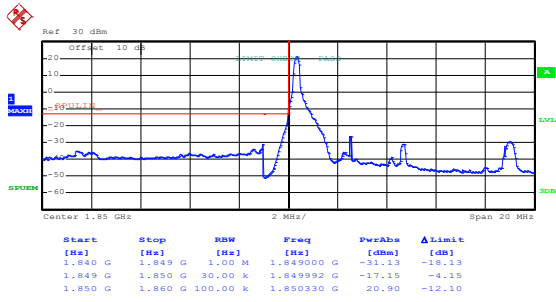
Lowest channel



Date: 10.OCT.2019 10:31:39

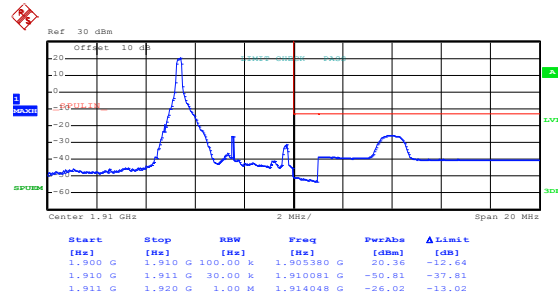
Highest channel

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



Date: 10.OCT.2019 10:33:23

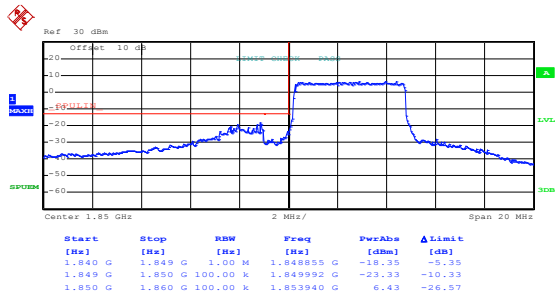
Lowest channel



Date: 10.OCT.2019 10:34:19

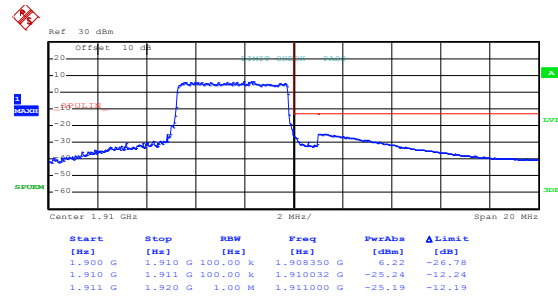
Highest channel

## 16QAM & RB Size 25



Date: 10.OCT.2019 10:33:42

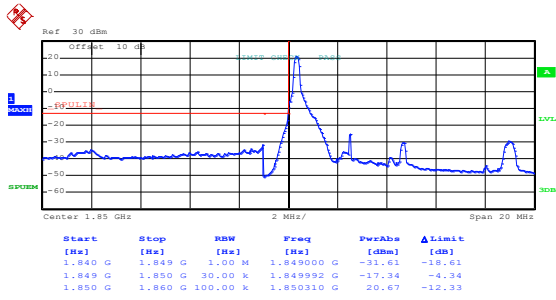
Lowest channel



Date: 10.OCT.2019 10:34:02

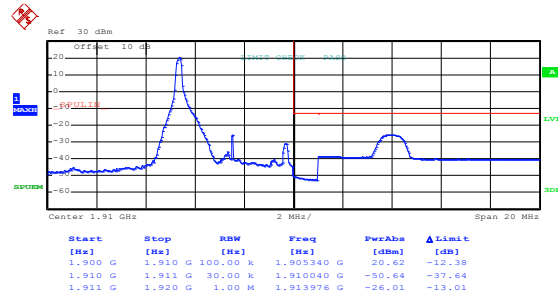
Highest channel

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



Date: 10.OCT.2019 10:33:16

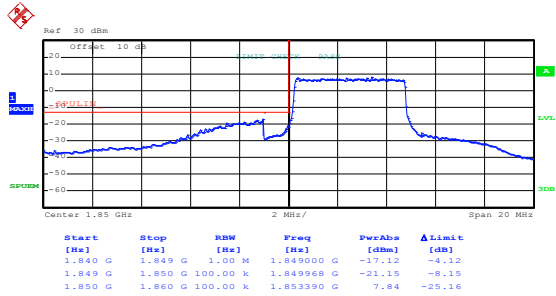
Lowest channel



Date: 10.OCT.2019 10:34:14

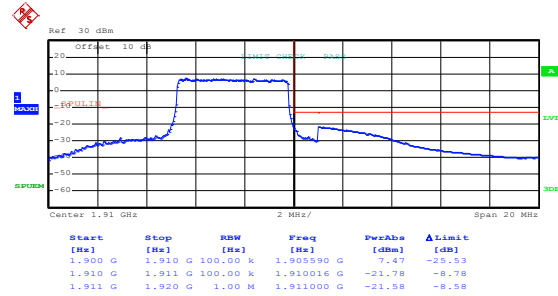
Highest channel

## QPSK & RB Size 25



Date: 10.OCT.2019 10:33:37

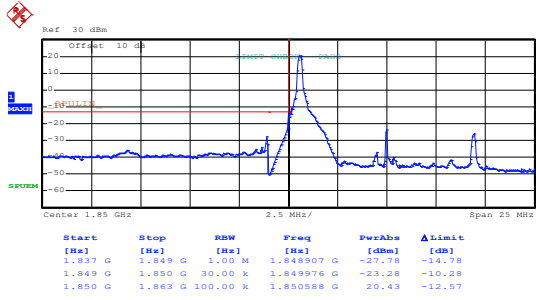
Lowest channel



Date: 10.OCT.2019 10:33:57

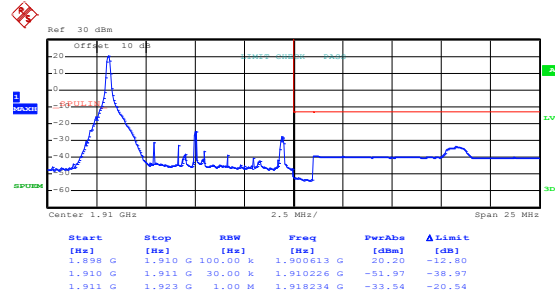
Highest channel

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



Date: 10.OCT.2019 10:35:49

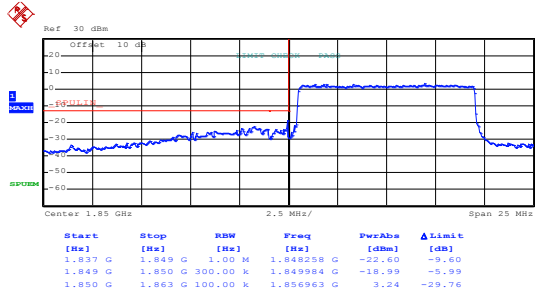
Lowest channel



Date: 10.OCT.2019 10:34:46

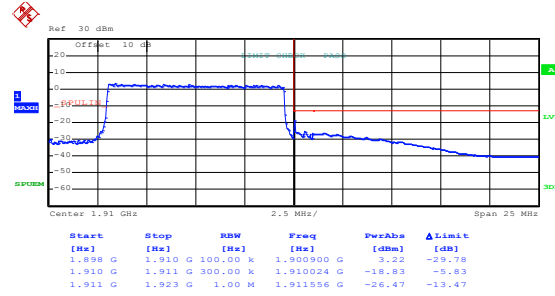
Highest channel

## 16QAM & RB Size 50



Date: 10.OCT.2019 10:35:31

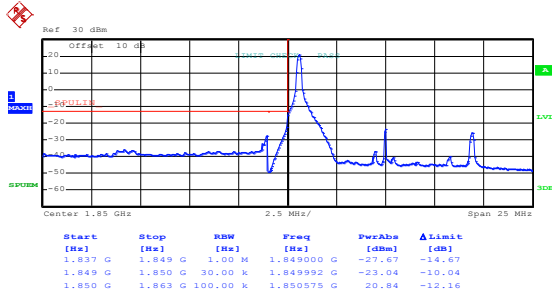
Lowest channel



Date: 10.OCT.2019 10:35:03

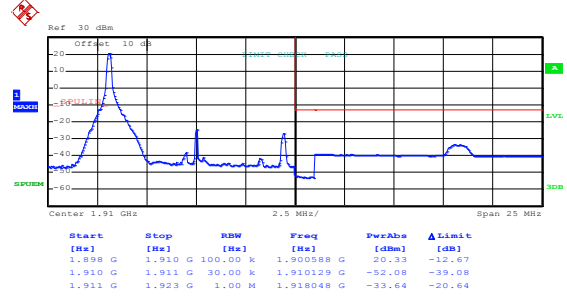
Highest channel

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



Date: 10.OCT.2019 10:35:44

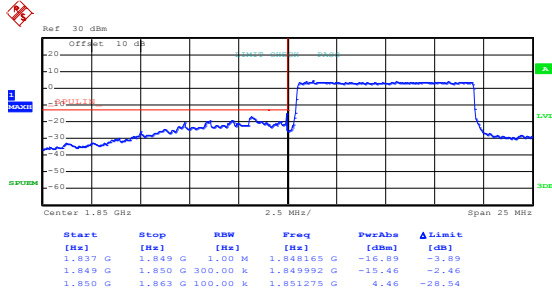
Lowest channel



Date: 10.OCT.2019 10:34:41

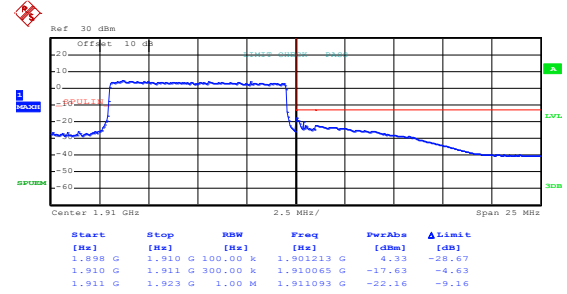
Highest channel

## QPSK & RB Size 50



Date: 10.OCT.2019 10:35:26

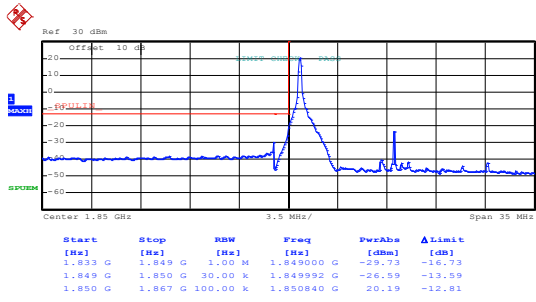
Lowest channel



Date: 10.OCT.2019 10:34:57

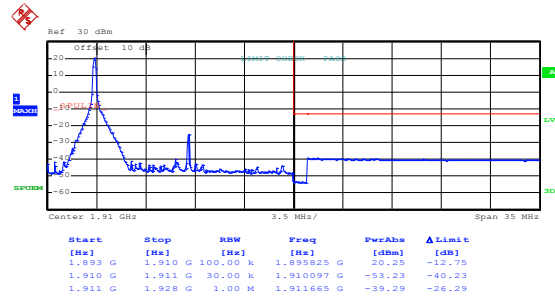
Highest channel

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



Date: 10.OCT.2019 10:36:18

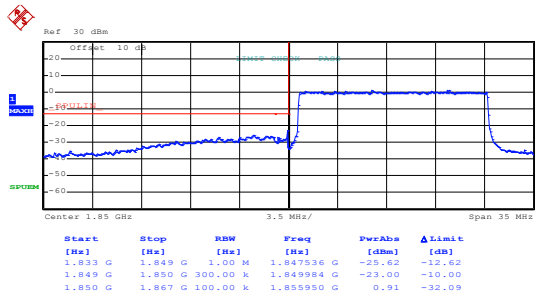
Lowest channel



Date: 10.OCT.2019 10:37:04

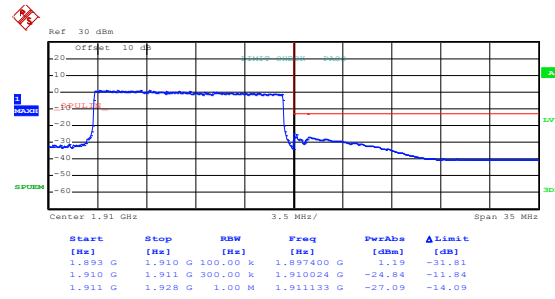
Highest channel

## 16QAM & RB Size 75



Date: 10.OCT.2019 10:36:33

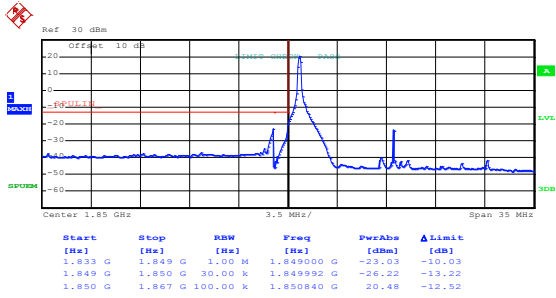
Lowest channel



Date: 10.OCT.2019 10:36:48

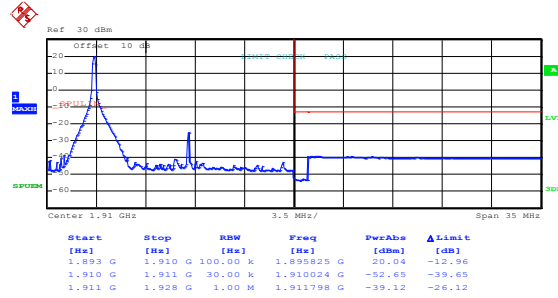
Highest channel

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



Date: 10.OCT.2019 10:36:13

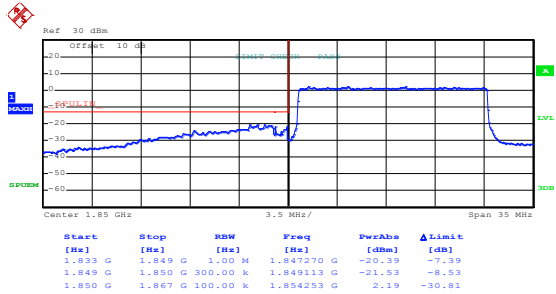
Lowest channel



Date: 10.OCT.2019 10:37:00

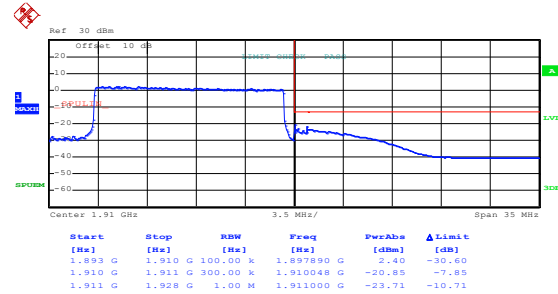
Highest channel

## QPSK & RB Size 75



Date: 10.OCT.2019 10:36:28

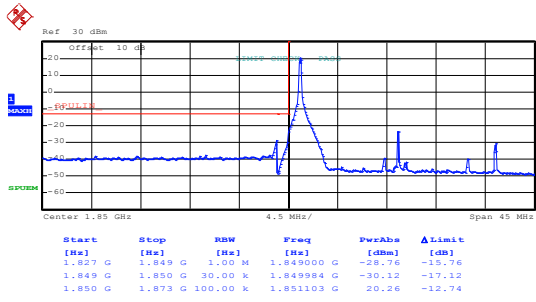
Lowest channel



Date: 10.OCT.2019 10:36:43

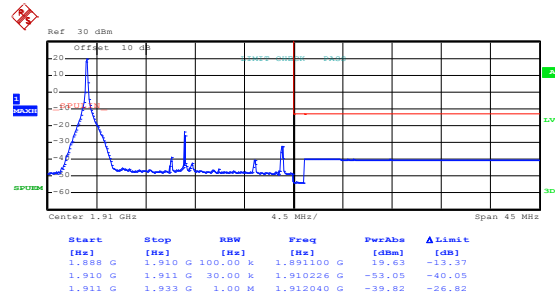
Highest channel

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



Date: 10.OCT.2019 10:38:27

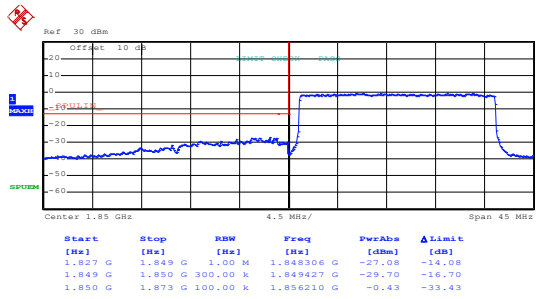
Lowest channel



Date: 10.OCT.2019 10:37:31

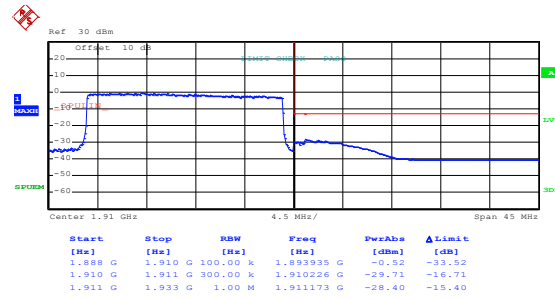
Highest channel

## 16QAM & RB Size 100



Date: 10.OCT.2019 10:38:09

Lowest channel

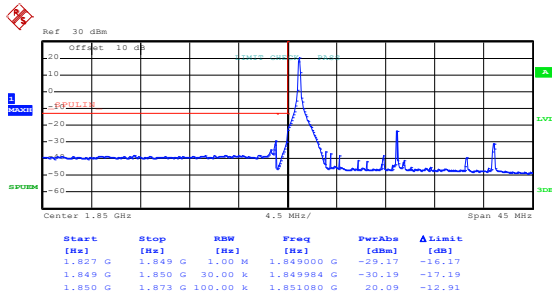


Date: 10.OCT.2019 10:37:52

Highest channel

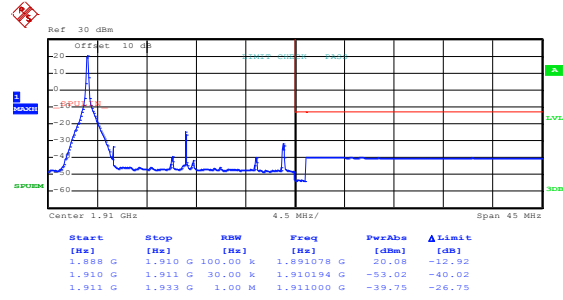


## LTE Band 2, BW: 20MHz QPSK & RB Size 1



Date: 10.OCT.2019 10:38:22

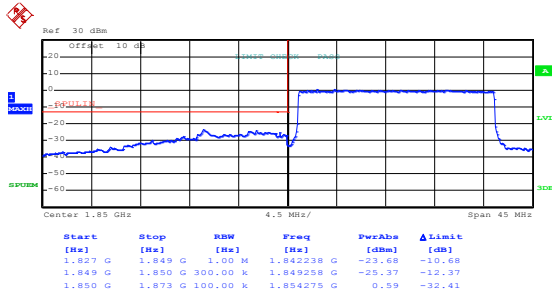
Lowest channel



Date: 10.OCT.2019 10:37:25

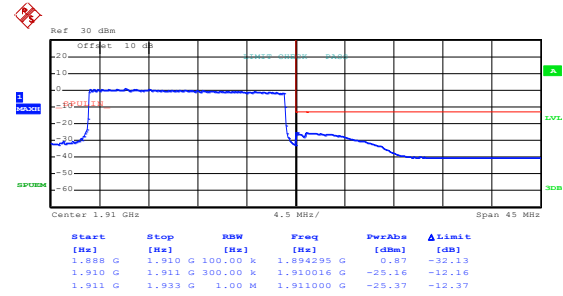
Highest channel

## QPSK & RB Size 100



Date: 10.OCT.2019 10:38:03

Lowest channel

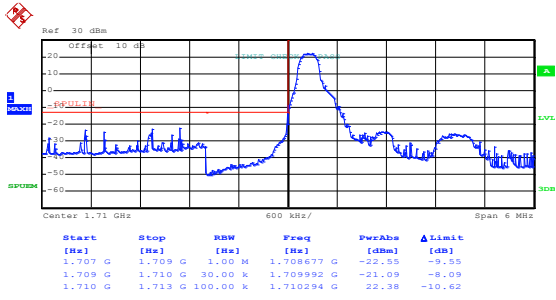


Date: 10.OCT.2019 10:37:47

Highest channel

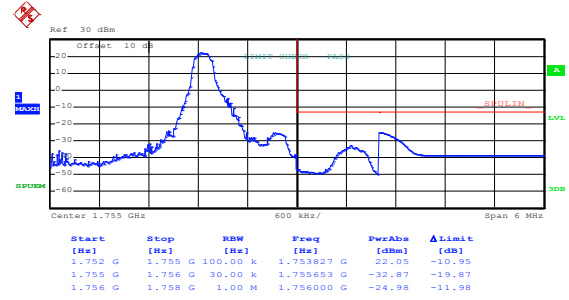
LTE Band 4 part:

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



Date: 10.OCT.2019 10:19:58

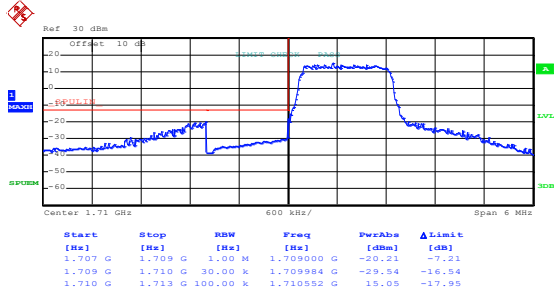
Lowest channel



Date: 10.OCT.2019 10:20:53

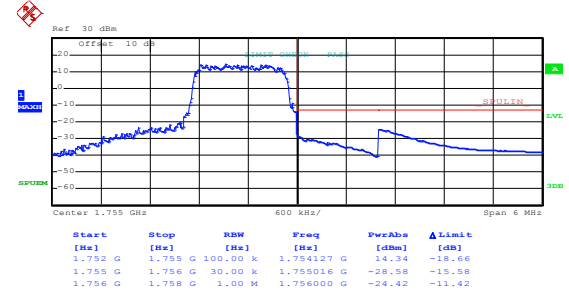
Highest channel

16QAM & RB Size 6



Date: 10.OCT.2019 10:20:16

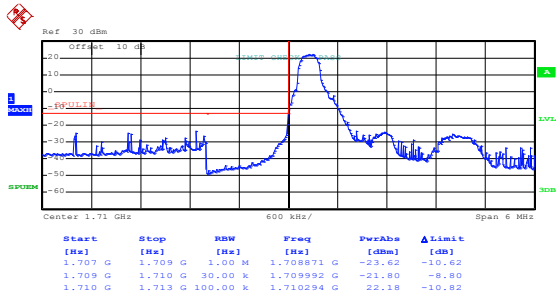
Lowest channel



Date: 10.OCT.2019 10:20:38

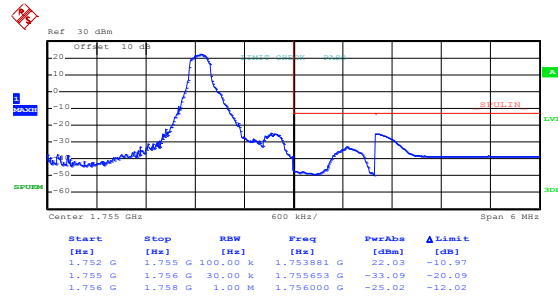
Highest channel

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



Date: 10.OCT.2019 10:19:51

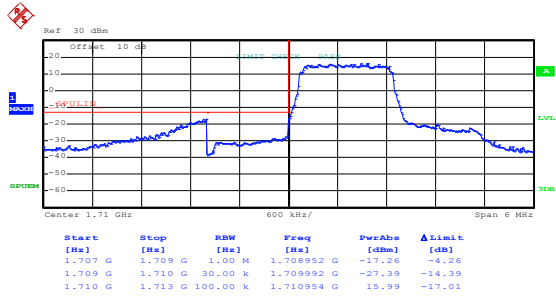
Lowest channel



Date: 10.OCT.2019 10:20:48

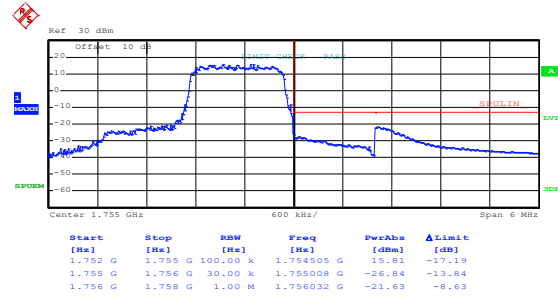
Highest channel

## QPSK & RB Size 6



Date: 10.OCT.2019 10:20:10

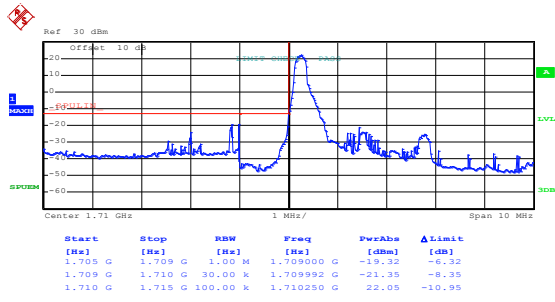
Lowest channel



Date: 10.OCT.2019 10:20:33

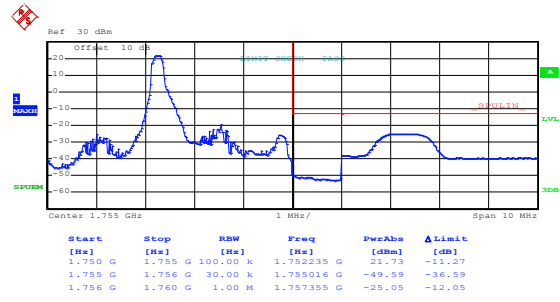
Highest channel

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



Date: 10.OCT.2019 10:22:32

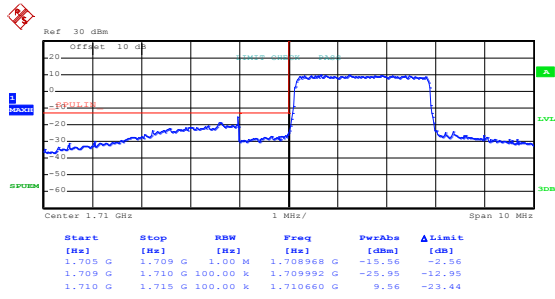
Lowest channel



Date: 10.OCT.2019 10:21:28

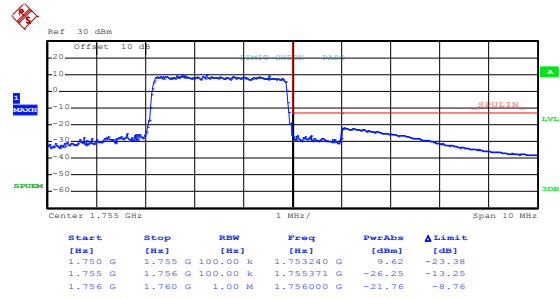
Highest channel

## 16QAM & RB Size 15



Date: 10.OCT.2019 10:22:15

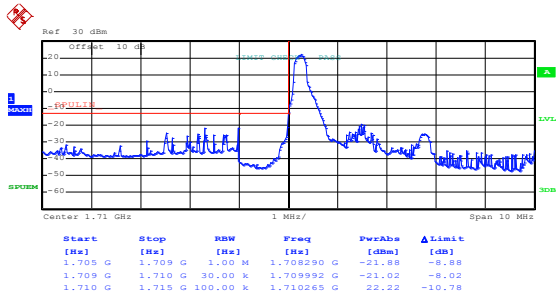
Lowest channel



Date: 10.OCT.2019 10:21:48

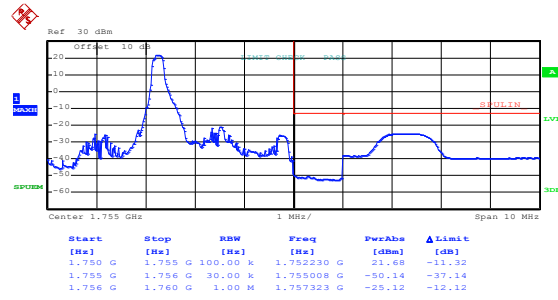
Highest channel

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



Date: 10.OCT.2019 10:22:28

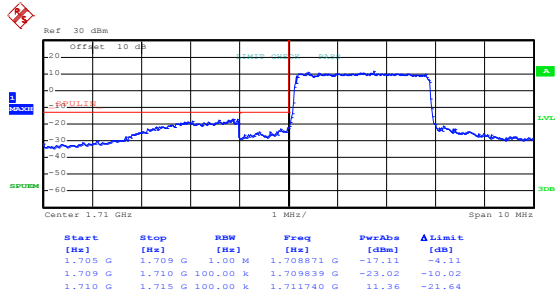
Lowest channel



Date: 10.OCT.2019 10:21:18

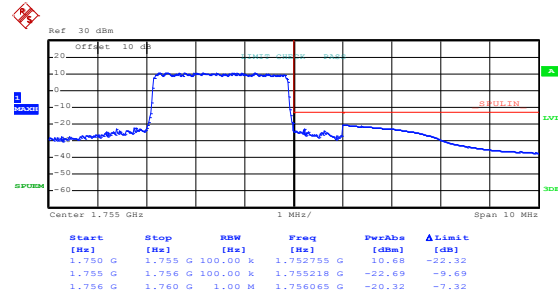
Highest channel

## QPSK & RB Size 15



Date: 10.OCT.2019 10:22:09

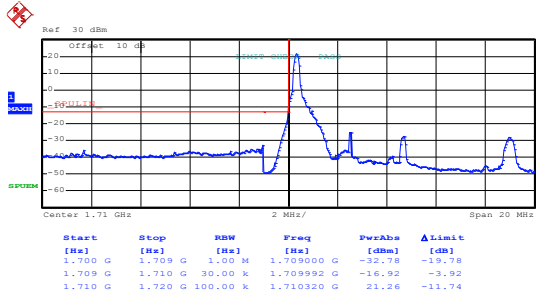
Lowest channel



Date: 10.OCT.2019 10:21:43

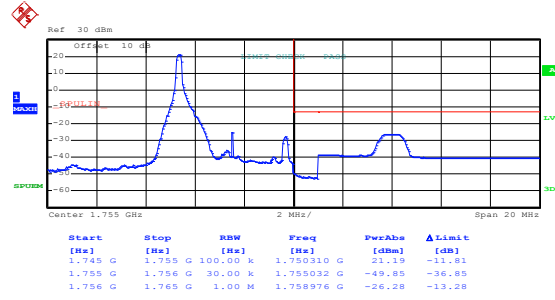
Highest channel

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



Date: 10.OCT.2019 10:23:20

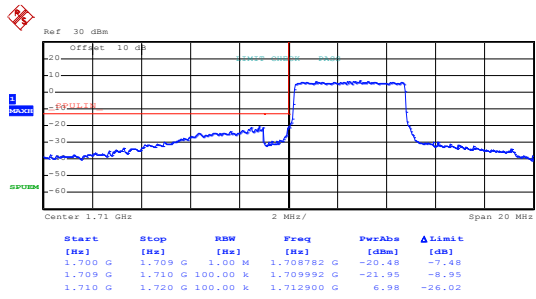
Lowest channel



Date: 10.OCT.2019 10:24:36

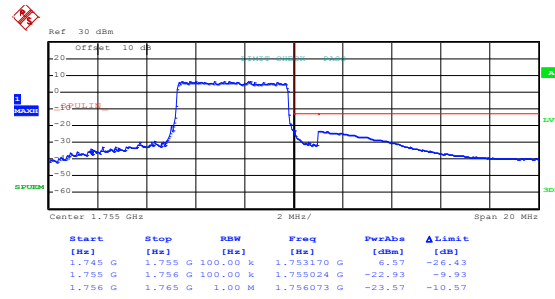
Highest channel

## 16QAM & RB Size 25



Date: 10.OCT.2019 10:23:37

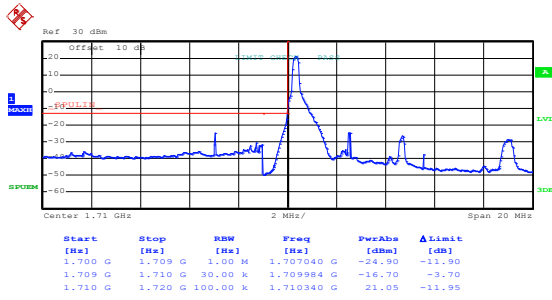
Lowest channel



Date: 10.OCT.2019 10:23:54

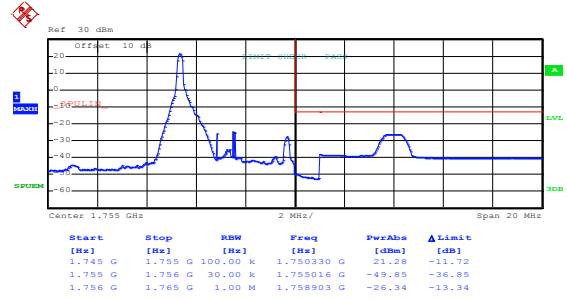
Highest channel

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



Date: 10.OCT.2019 10:23:15

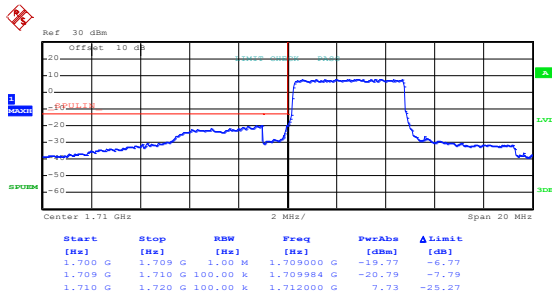
Lowest channel



Date: 10.OCT.2019 10:24:09

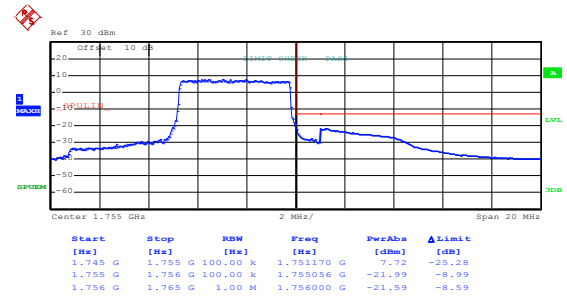
Highest channel

## QPSK & RB Size 25



Date: 10.OCT.2019 10:23:32

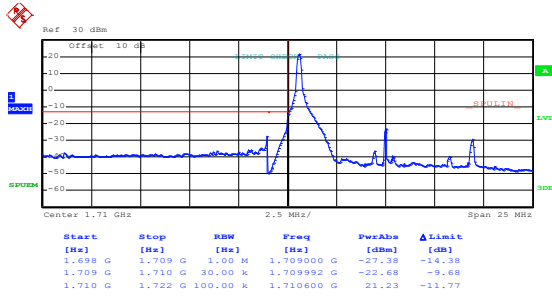
Lowest channel



Date: 10.OCT.2019 10:23:49

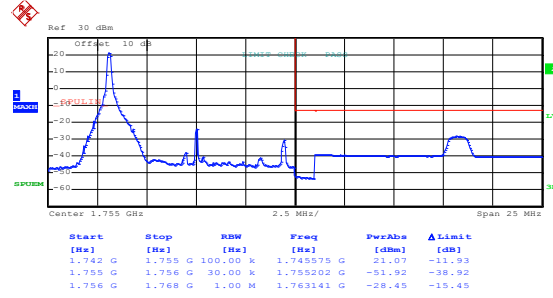
Highest channel

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



Date: 10.OCT.2019 10:26:32

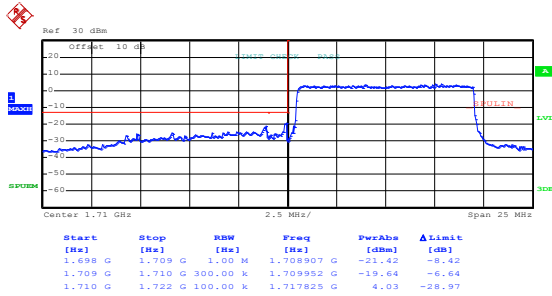
Lowest channel



Date: 10.OCT.2019 10:25:19

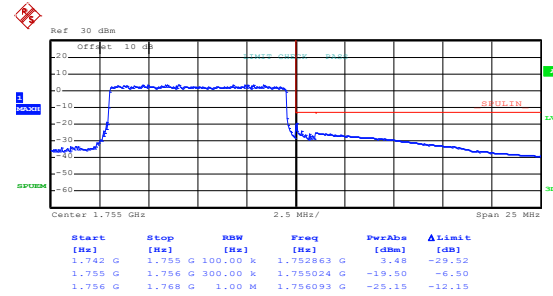
Highest channel

## 16QAM & RB Size 50



Date: 10.OCT.2019 10:26:10

Lowest channel

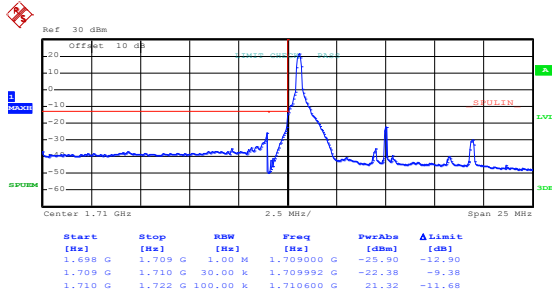


Date: 10.OCT.2019 10:25:40

Highest channel

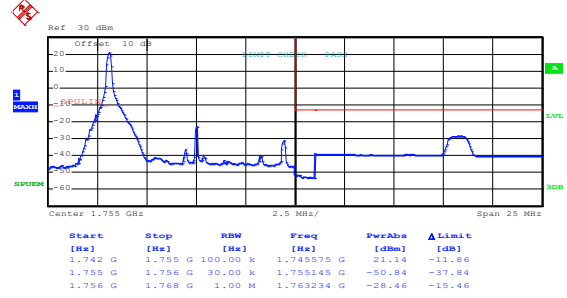


## LTE Band 4, BW: 10MHz QPSK & RB Size 1



Date: 10.OCT.2019 10:26:26

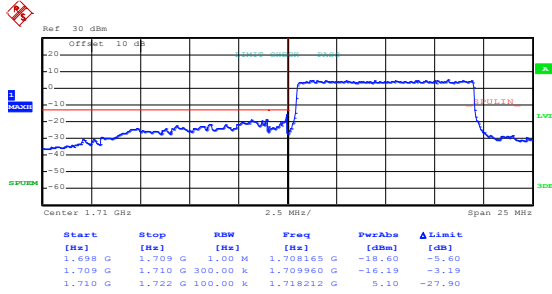
Lowest channel



Date: 10.OCT.2019 10:25:15

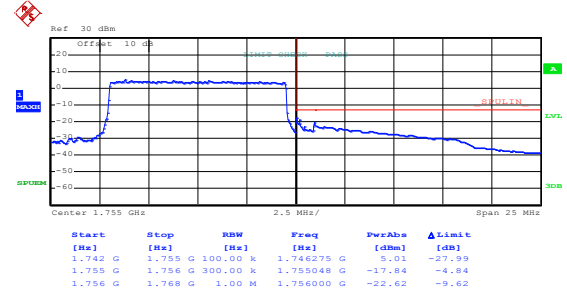
Highest channel

## QPSK & RB Size 50



Date: 10.OCT.2019 10:26:06

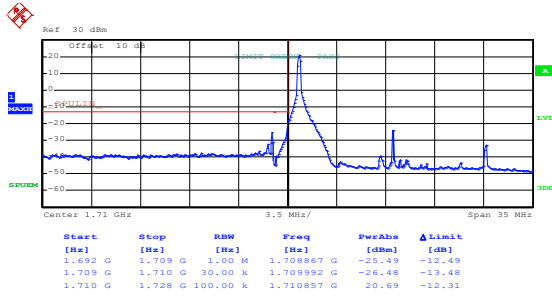
Lowest channel



Date: 10.OCT.2019 10:25:36

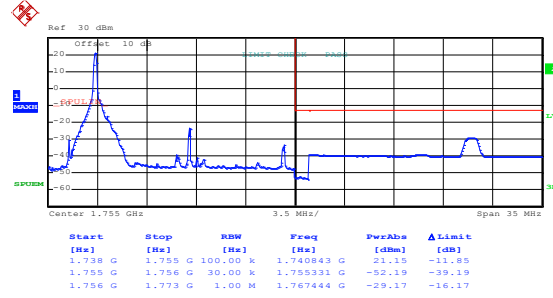
Highest channel

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



Date: 10.OCT.2019 10:26:57

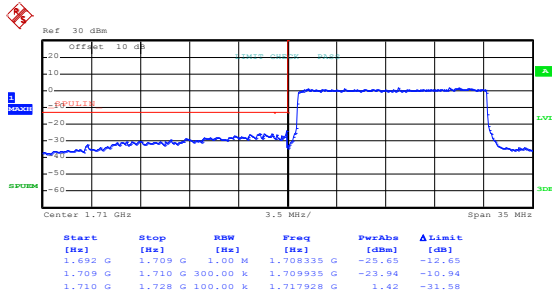
Lowest channel



Date: 10.OCT.2019 10:27:50

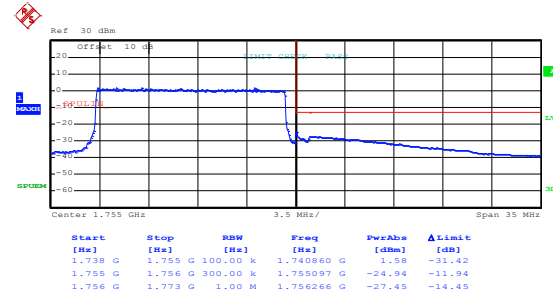
Highest channel

## 16QAM & RB Size 75



Date: 10.OCT.2019 10:27:14

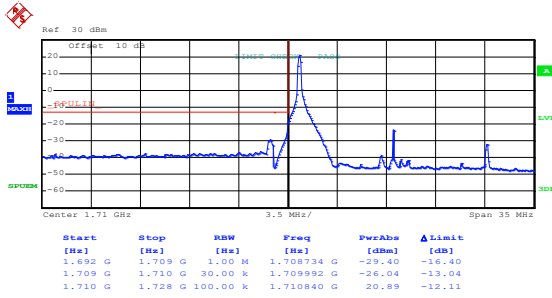
Lowest channel



Date: 10.OCT.2019 10:27:31

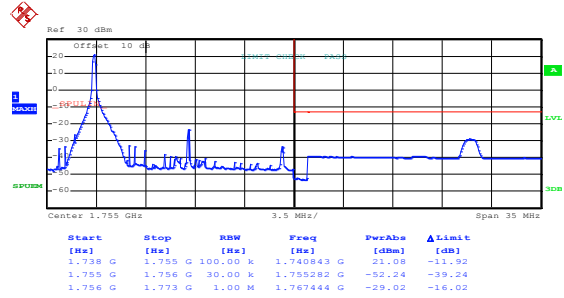
Highest channel

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



Date: 10.OCT.2019 10:26:53

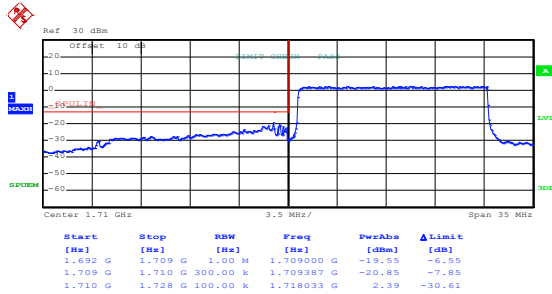
Lowest channel



Date: 10.OCT.2019 10:27:45

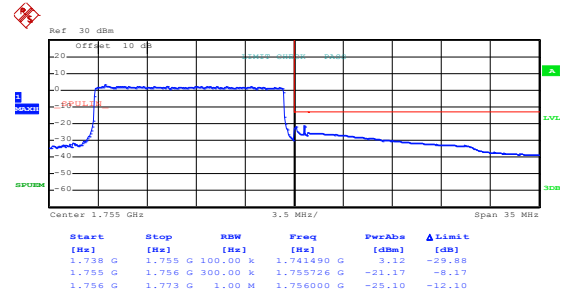
Highest channel

## QPSK & RB Size 75



Date: 10.OCT.2019 10:27:09

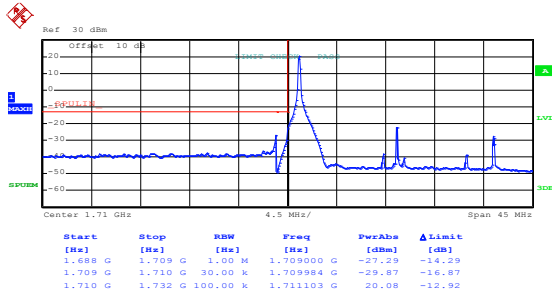
Lowest channel



Date: 10.OCT.2019 10:27:27

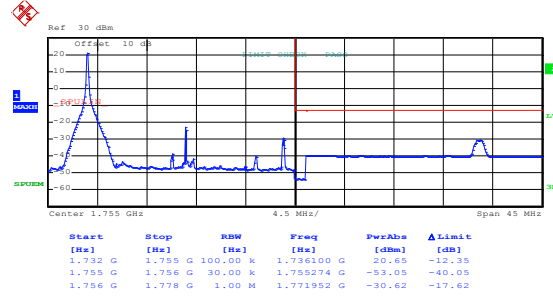
Highest channel

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



Date: 10.OCT.2019 10:29:13

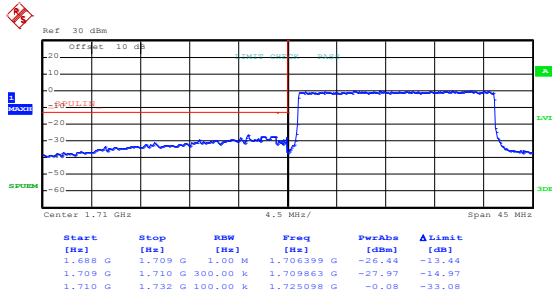
Lowest channel



Date: 10.OCT.2019 10:28:18

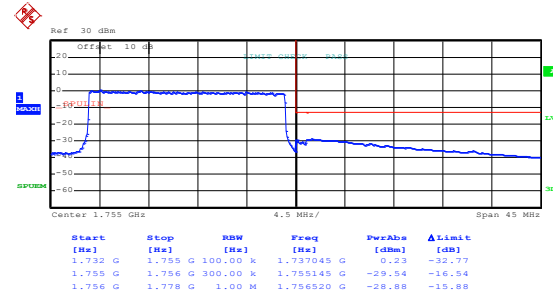
Highest channel

## 16QAM & RB Size 100



Date: 10.OCT.2019 10:28:53

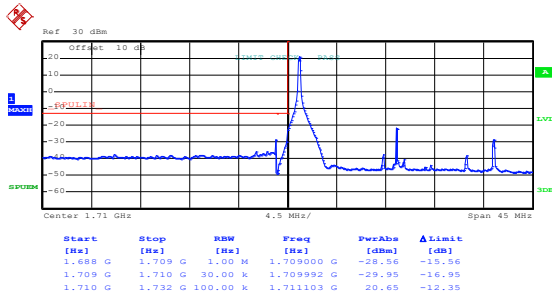
Lowest channel



Date: 10.OCT.2019 10:28:37

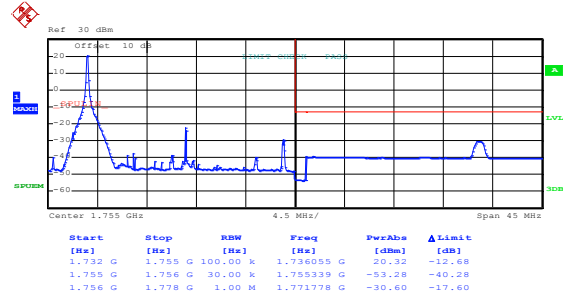
Highest channel

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



Date: 10.OCT.2019 10:29:07

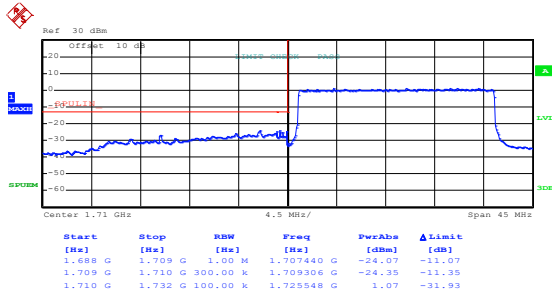
Lowest channel



Date: 10.OCT.2019 10:28:12

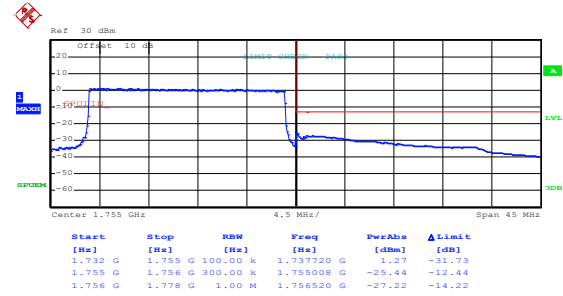
Highest channel

## QPSK & RB Size 100



Date: 10.OCT.2019 10:28:49

Lowest channel

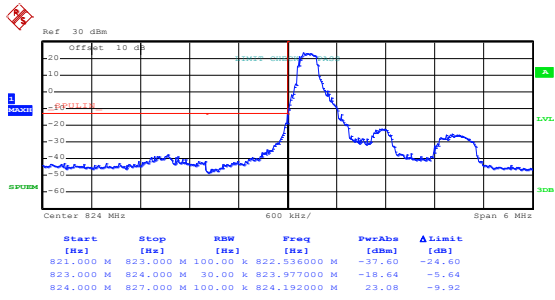


Date: 10.OCT.2019 10:28:32

Highest channel

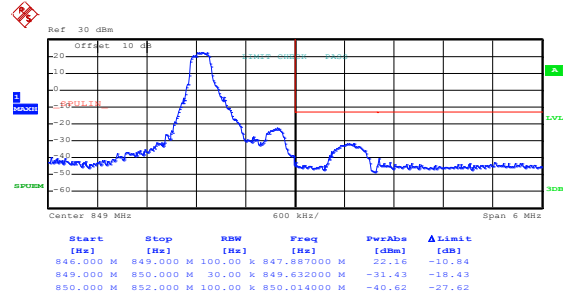
LTE Band 5 part:

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



Date: 10.OCT.2019 10:11:14

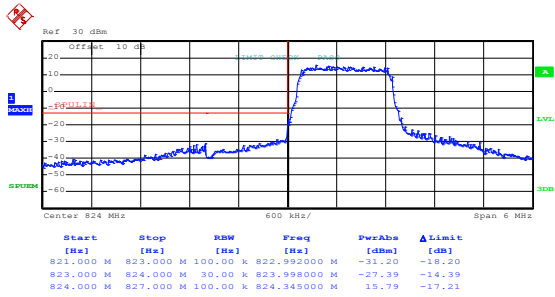
Lowest channel



Date: 10.OCT.2019 10:12:02

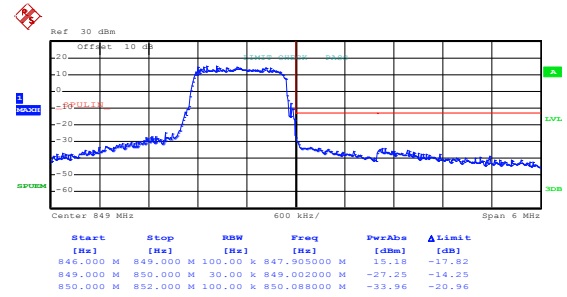
Highest channel

16QAM & RB Size 6



Date: 10.OCT.2019 10:11:28

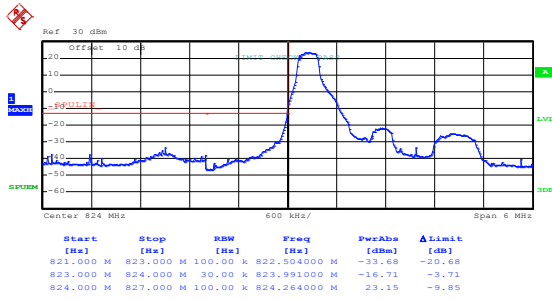
Lowest channel



Date: 10.OCT.2019 10:11:48

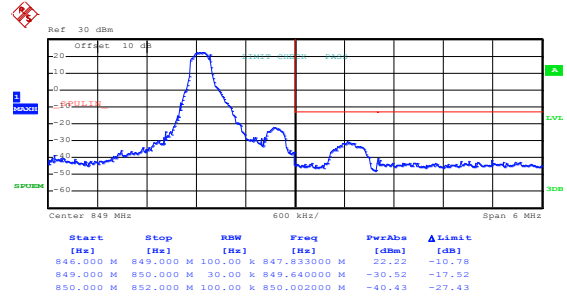
Highest channel

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



Date: 10.OCT.2019 10:11:09

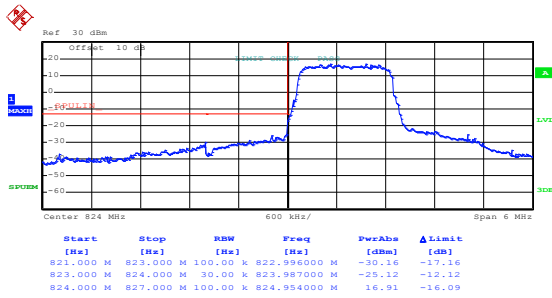
Lowest channel



Date: 10.OCT.2019 10:11:58

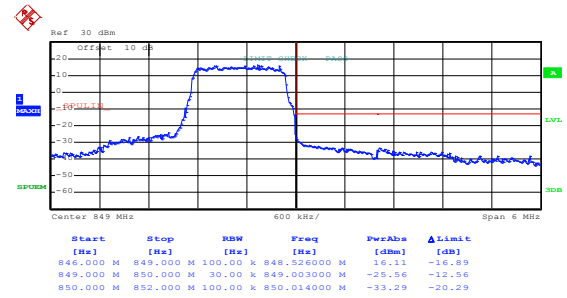
Highest channel

## QPSK & RB Size 6



Date: 10.OCT.2019 10:11:24

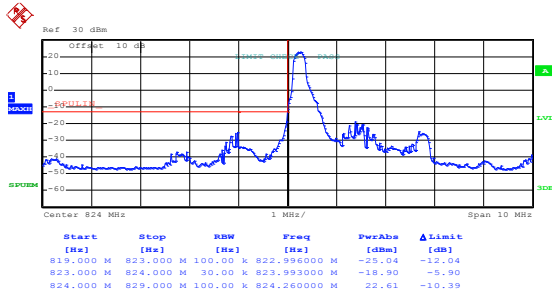
Lowest channel



Date: 10.OCT.2019 10:11:43

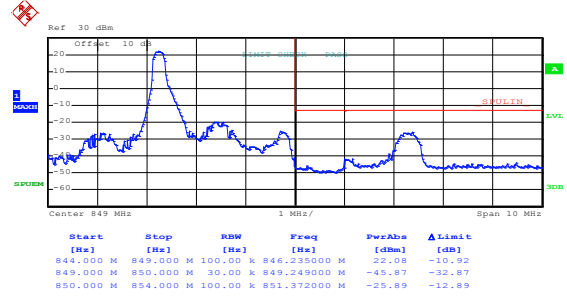
Highest channel

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



Date: 10.OCT.2019 10:14:33

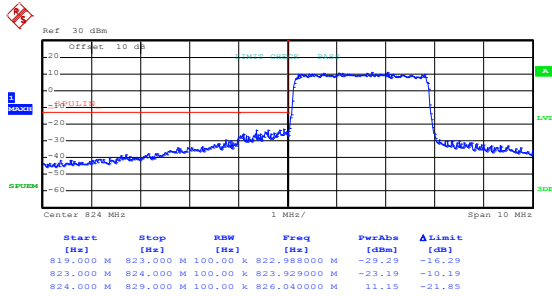
Lowest channel



Date: 10.OCT.2019 10:12:45

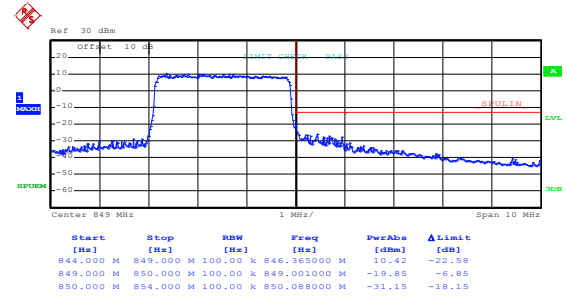
Highest channel

## 16QAM & RB Size 15



Date: 10.OCT.2019 10:14:11

Lowest channel

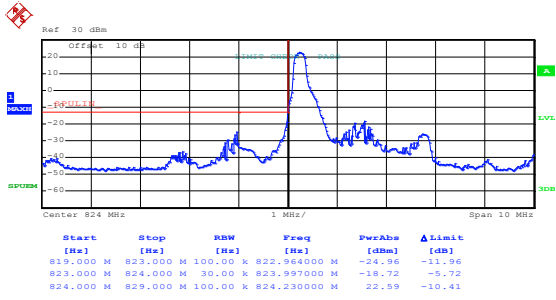


Date: 10.OCT.2019 10:13:03

Highest channel

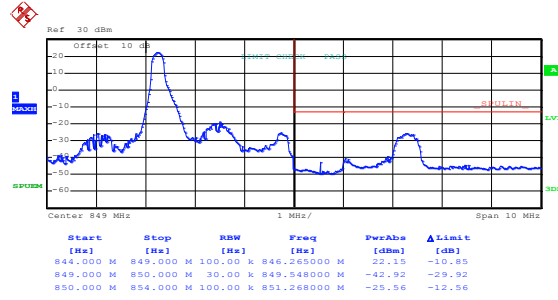


## LTE Band 5, BW: 3MHz QPSK & RB Size 1



Date: 10.OCT.2019 10:14:25

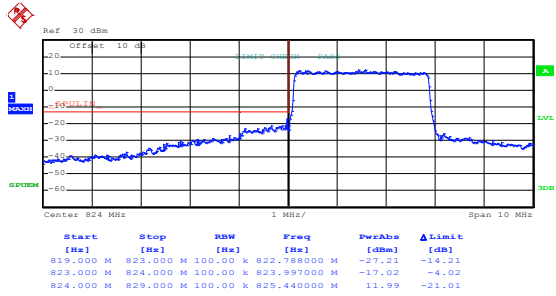
Lowest channel



Date: 10.OCT.2019 10:12:31

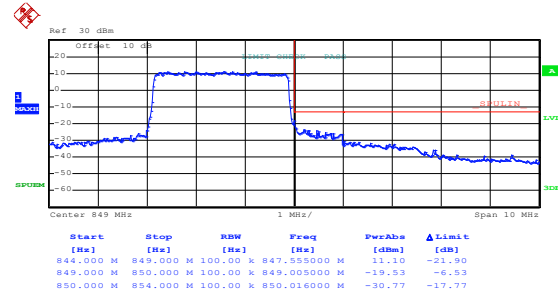
Highest channel

## QPSK & RB Size 15



Date: 10.OCT.2019 10:14:06

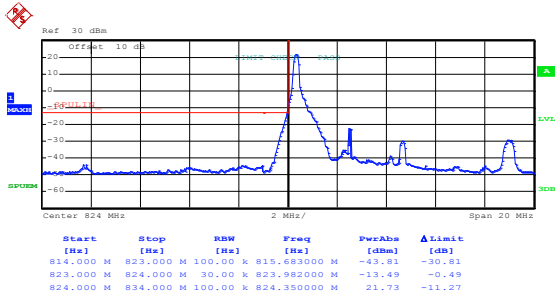
Lowest channel



Date: 10.OCT.2019 10:12:58

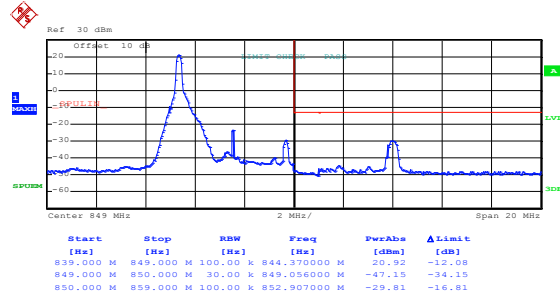
Highest channel

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



Date: 10.OCT.2019 10:15:01

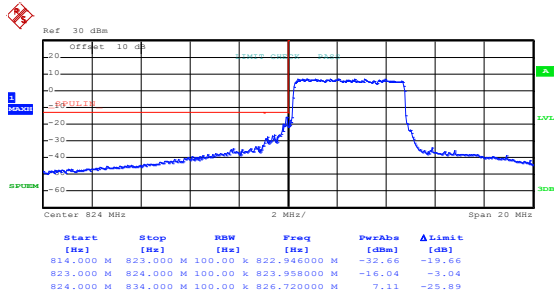
Lowest channel



Date: 10.OCT.2019 10:15:58

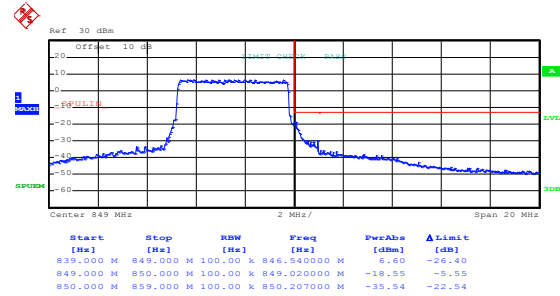
Highest channel

## 16QAM & RB Size 25



Date: 10.OCT.2019 10:15:19

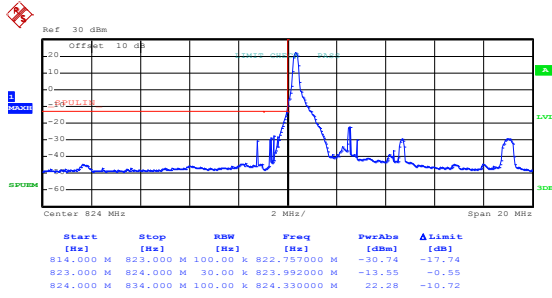
Lowest channel



Date: 10.OCT.2019 10:15:38

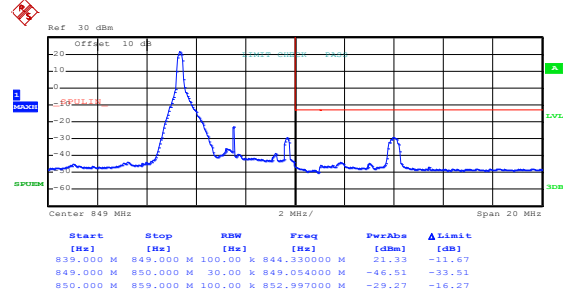
Highest channel

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



Date: 10.OCT.2019 10:14:57

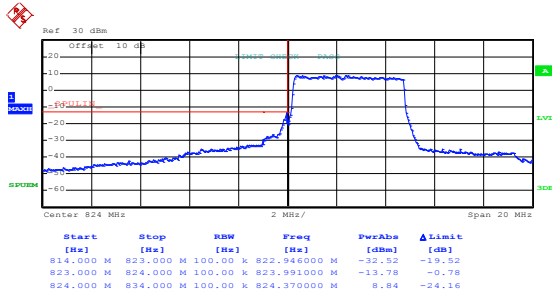
Lowest channel



Date: 10.OCT.2019 10:15:53

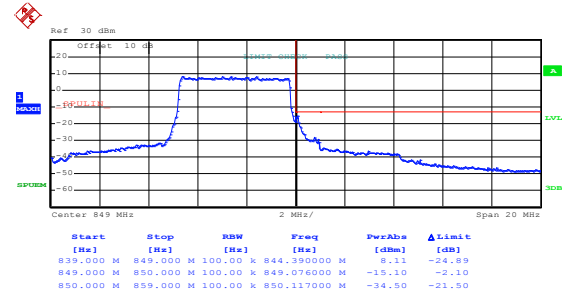
Highest channel

## QPSK & RB Size 25



Date: 10.OCT.2019 10:15:14

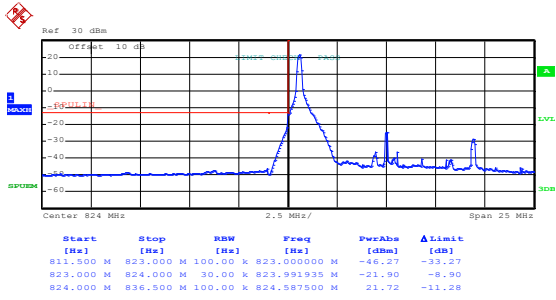
Lowest channel



Date: 10.OCT.2019 10:15:33

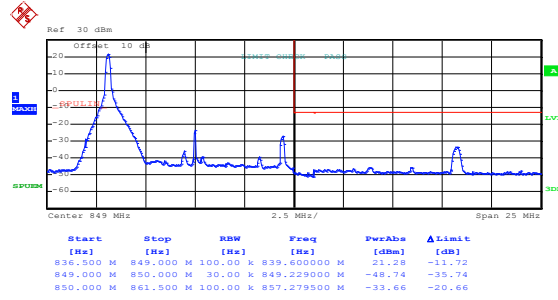
Highest channel

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



Date: 10.OCT.2019 10:18:18

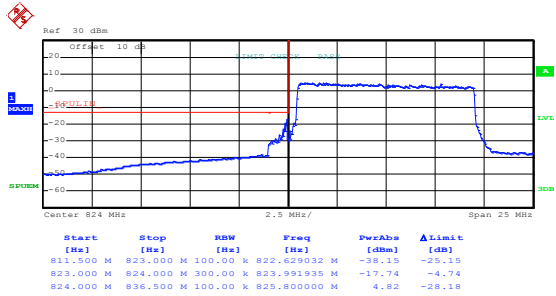
Lowest channel



Date: 10.OCT.2019 10:16:24

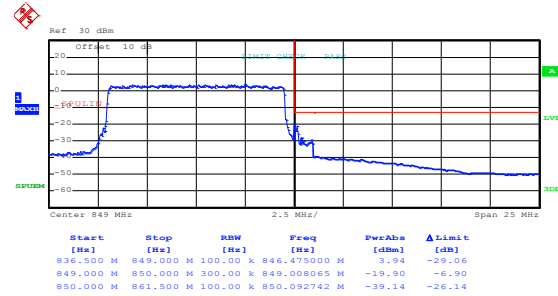
Highest channel

## 16QAM & RB Size 50



Date: 10.OCT.2019 10:17:35

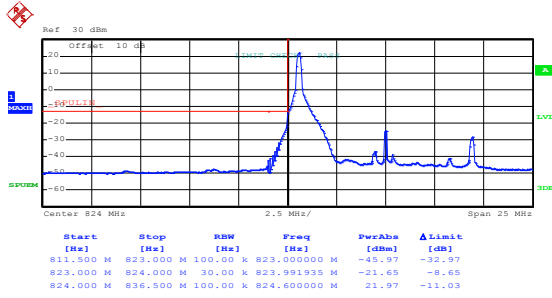
Lowest channel



Date: 10.OCT.2019 10:16:52

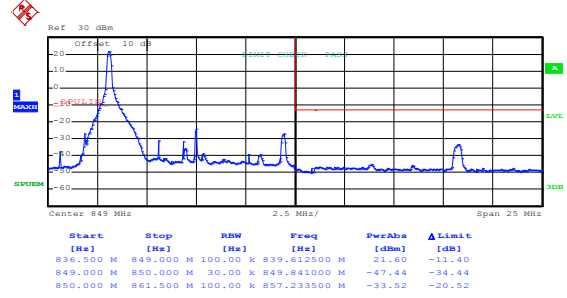
Highest channel

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



Date: 10.OCT.2019 10:18:11

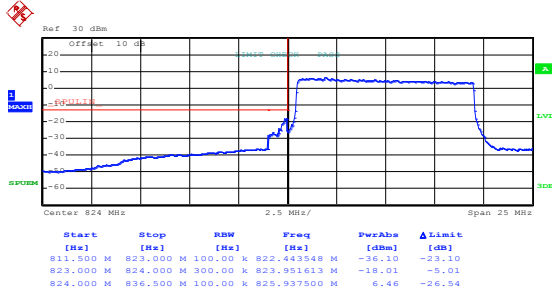
Lowest channel



Date: 10.OCT.2019 10:16:18

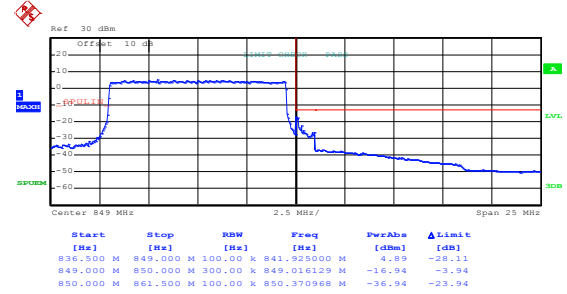
Highest channel

## QPSK & RB Size 50



Date: 10.OCT.2019 10:17:30

Lowest channel

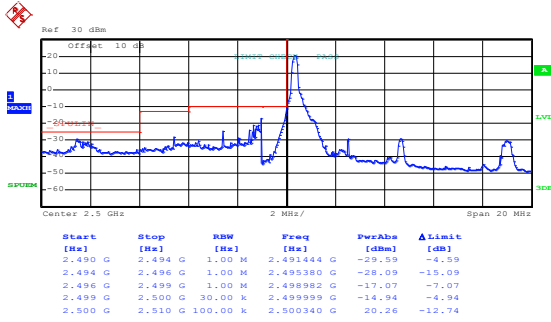


Date: 10.OCT.2019 10:16:47

Highest channel

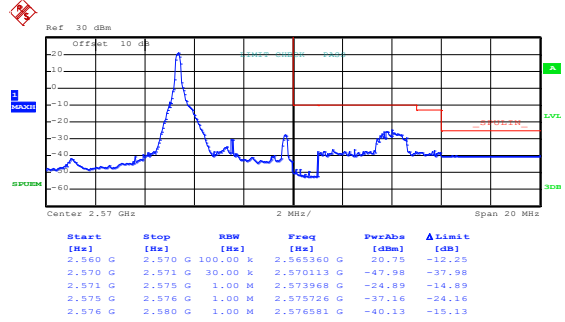
LTE Band 7 part:

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



Date: 10.OCT.2019 09:57:07

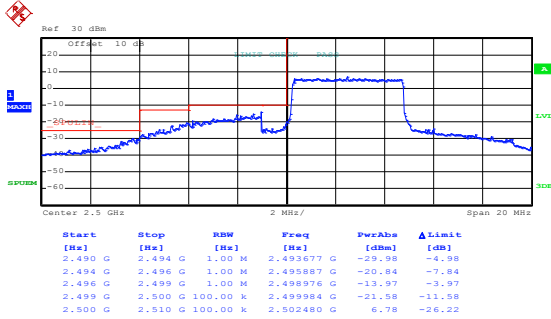
Lowest channel



Date: 10.OCT.2019 09:58:43

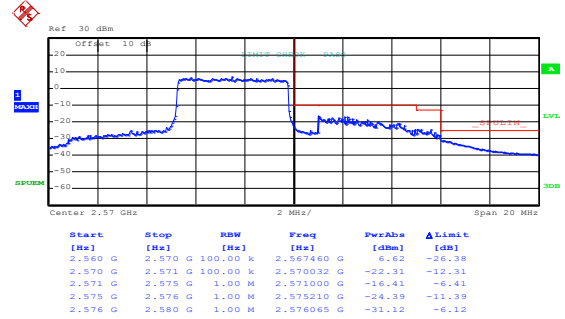
Highest channel

16QAM & RB Size 25



Date: 10.OCT.2019 09:57:37

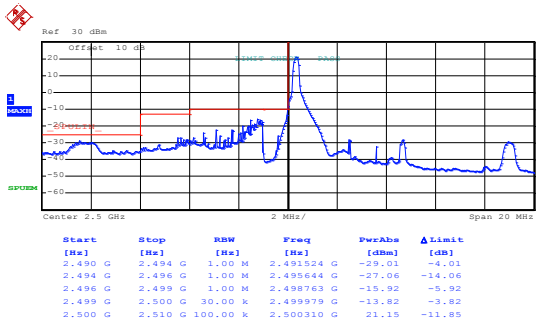
Lowest channel



Date: 10.OCT.2019 09:58:26

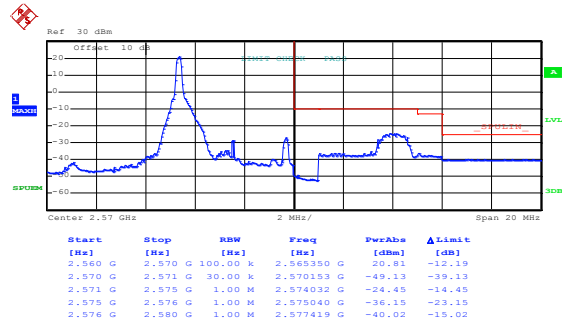
Highest channel

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



Date: 10.OCT.2019 09:57:01

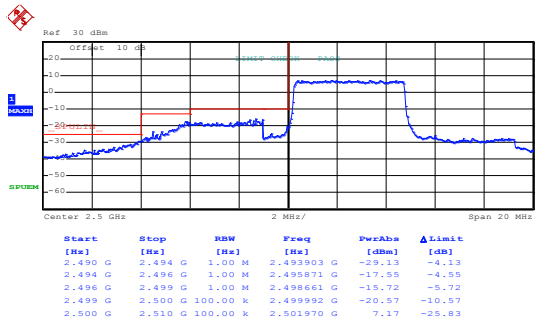
Lowest channel



Date: 10.OCT.2019 09:58:40

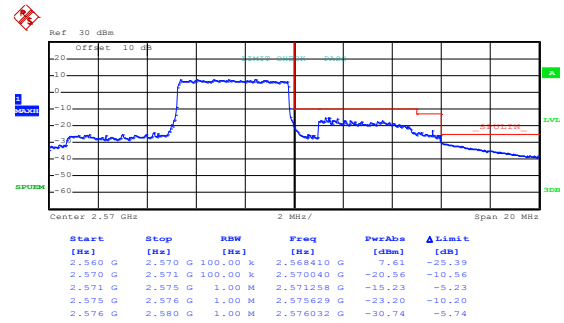
Highest channel

## QPSK & RB Size 25



Date: 10.OCT.2019 09:57:33

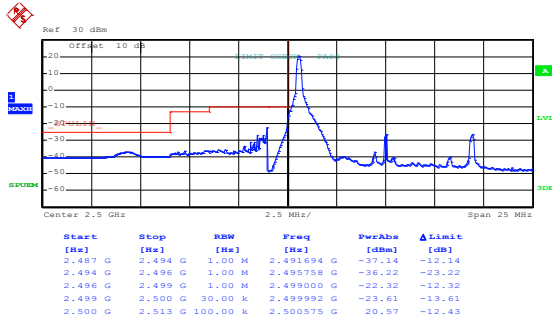
Lowest channel



Date: 10.OCT.2019 09:58:21

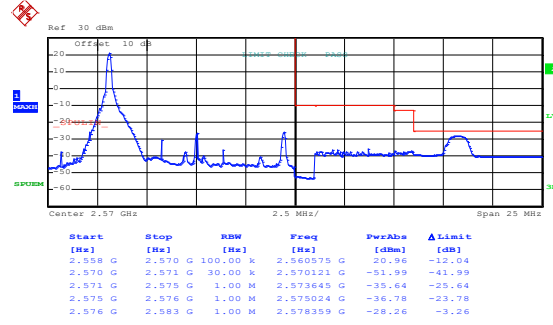
Highest channel

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



Date: 10.OCT.2019 10:05:10

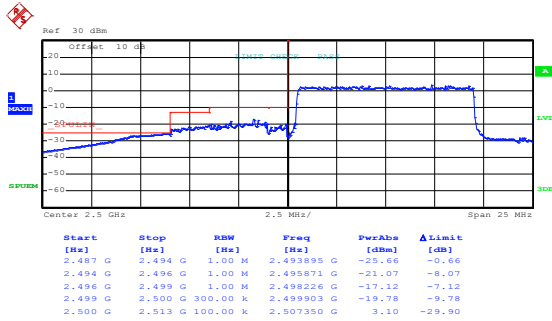
Lowest channel



Date: 10.OCT.2019 10:04:18

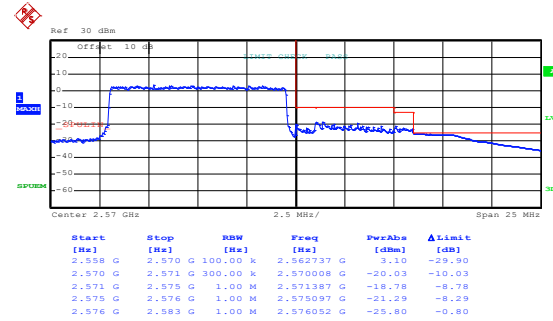
Highest channel

## 16QAM & RB Size 50



Date: 10.OCT.2019 10:02:56

Lowest channel

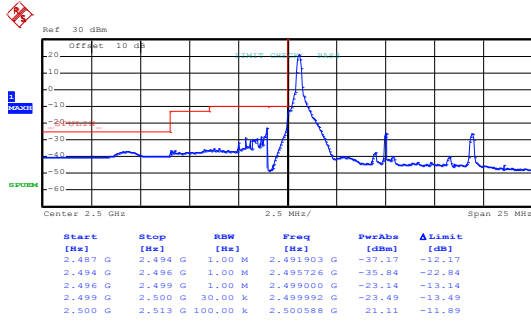


Date: 10.OCT.2019 10:03:51

Highest channel

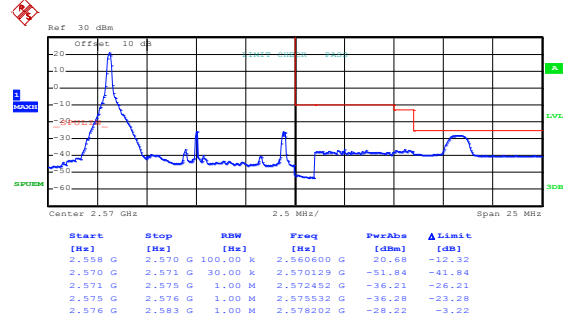


## LTE Band 7, BW: 10MHz QPSK & RB Size 1



Date: 10.OCT.2019 10:05:01

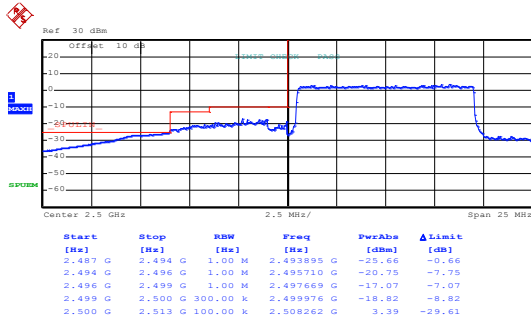
Lowest channel



Date: 10.OCT.2019 10:04:13

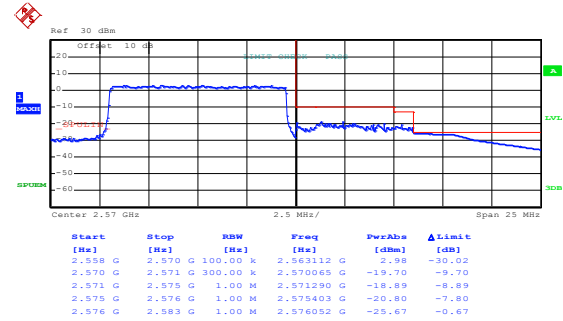
Highest channel

## QPSK & RB Size 50



Date: 10.OCT.2019 10:02:46

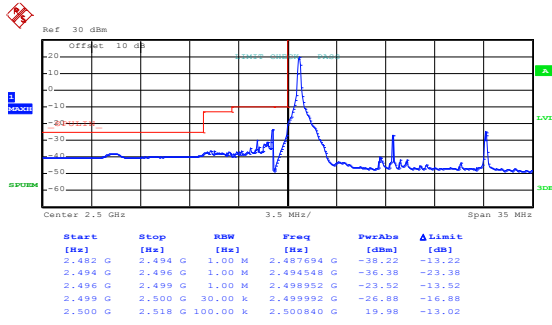
Lowest channel



Date: 10.OCT.2019 10:03:40

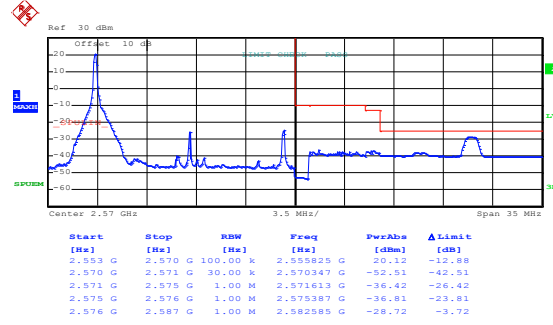
Highest channel

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



Date: 10.OCT.2019 10:05:52

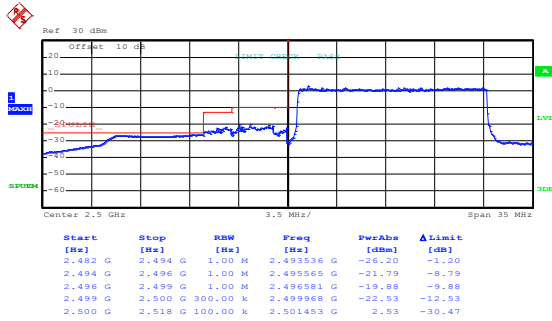
Lowest channel



Date: 10.OCT.2019 10:07:39

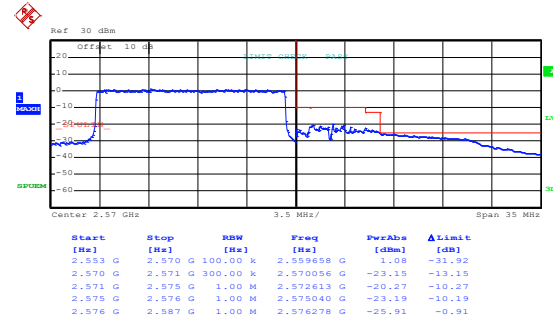
Highest channel

## 16QAM & RB Size 75



Date: 10.OCT.2019 10:06:33

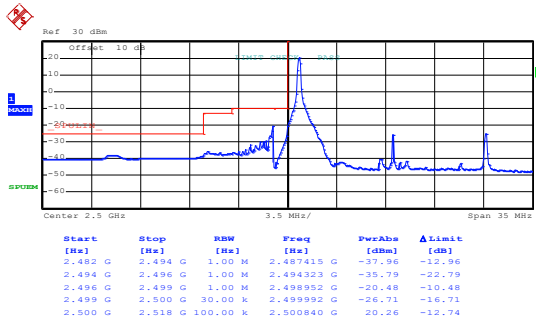
Lowest channel



Date: 10.OCT.2019 10:07:22

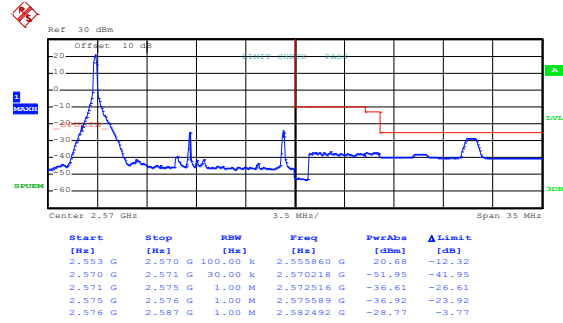
Highest channel

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



Date: 10.OCT.2019 10:05:47

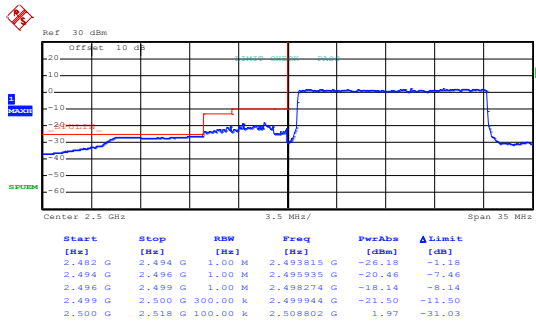
Lowest channel



Date: 10.OCT.2019 10:07:35

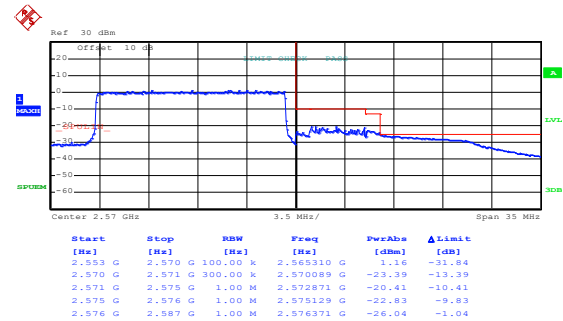
Highest channel

## QPSK & RB Size 75



Date: 10.OCT.2019 10:06:18

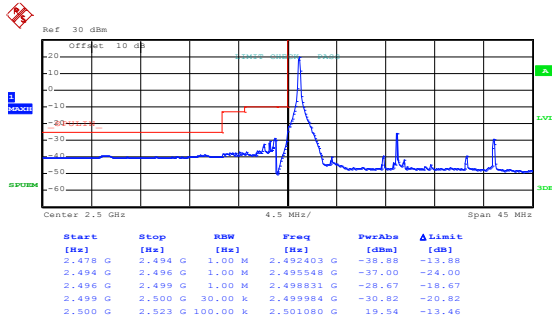
Lowest channel



Date: 10.OCT.2019 10:07:10

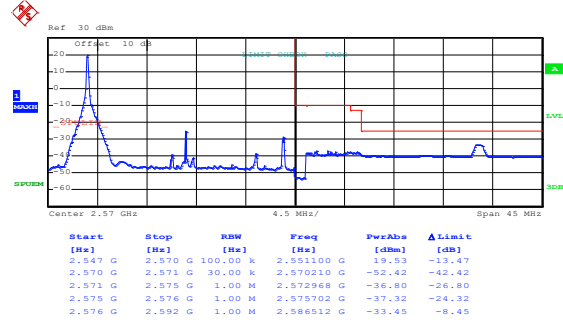
Highest channel

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



Date: 10.OCT.2019 10:09:26

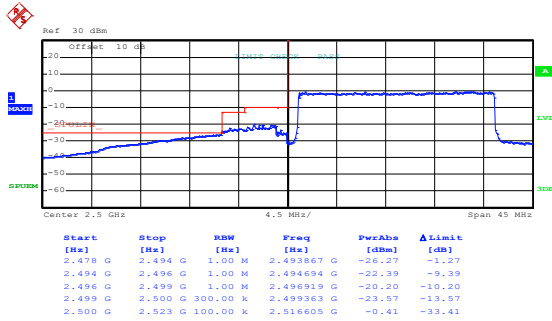
Lowest channel



Date: 10.OCT.2019 10:08:08

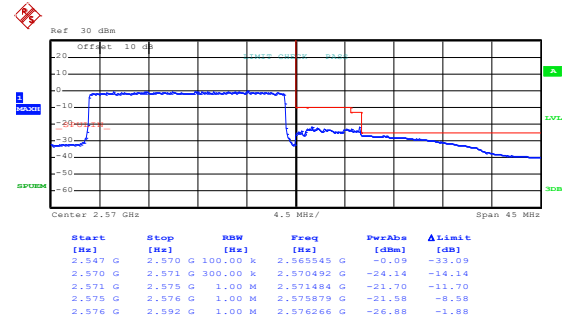
Highest channel

## 16QAM & RB Size 100



Date: 10.OCT.2019 10:09:07

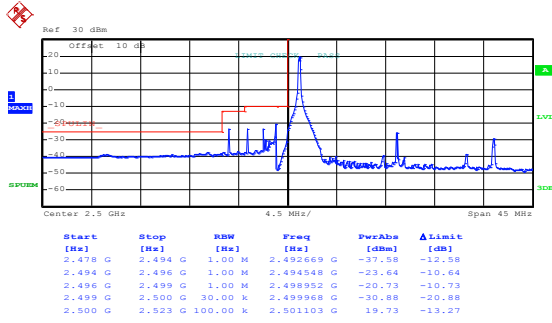
Lowest channel



Date: 10.OCT.2019 10:08:33

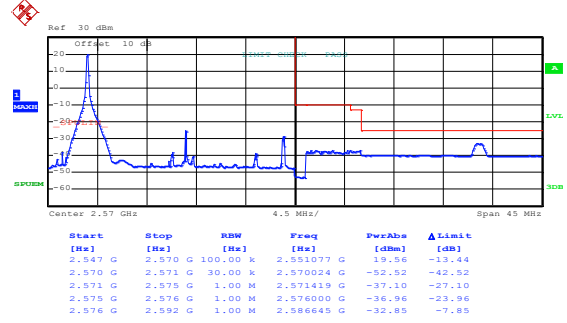
Highest channel

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



Date: 10.OCT.2019 10:09:21

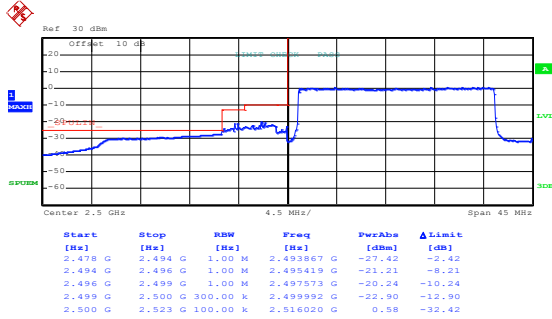
Lowest channel



Date: 10.OCT.2019 10:08:04

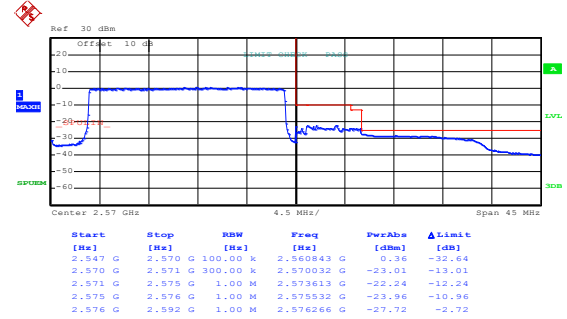
Highest channel

## QPSK & RB Size 100



Date: 10.OCT.2019 10:09:02

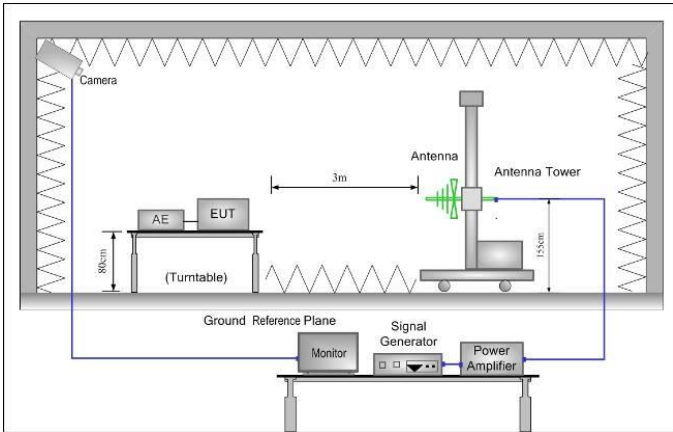
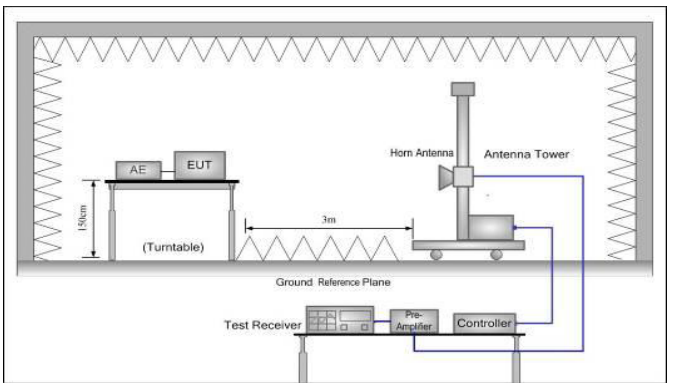
Lowest channel



Date: 10.OCT.2019 10:08:22

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 &amp; 12 &amp; 17:          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).          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 a 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)} + \text{Antenna Gain(dB/dBi)} - \text{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	-45.16	-13.00	Pass
5552.10	V	-41.84		
7402.00	V	-38.36		
3701.40	Horizontal	-41.35		
5552.10	H	-35.06		
7402.00	H	-38.15		
<b>Middle Channel</b>				
3760.00	Vertical	-45.32	-13.00	Pass
5640.00	V	-42.31		
7520.00	V	-38.54		
3760.00	Horizontal	-41.58		
5640.00	H	-35.53		
7520.00	H	-38.20		
<b>Highest Channel</b>				
3816.60	Vertical	-45.32	-13.00	Pass
5724.90	V	-42.31		
7633.20	V	-38.54		
3816.60	Horizontal	-41.58		
5724.90	H	-35.53		
7633.20	H	-38.20		
<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	-45.32	-13.00	Pass
5580.00	V	-42.31		
7440.00	V	-38.54		
3720.00	Horizontal	-41.58		
5580.00	H	-35.53		
7440.00	H	-38.20		
<b>Middle Channel</b>				
3760.00	Vertical	-45.32	-13.00	Pass
5640.00	V	-42.31		
7520.00	V	-38.54		
3760.00	Horizontal	-41.58		
5640.00	H	-35.53		
7520.00	H	-38.20		
<b>Highest Channel</b>				
3800.00	Vertical	-45.32	-13.00	Pass
5700.00	V	-42.31		
7600.00	V	-38.54		
3800.00	Horizontal	-41.58		
5700.00	H	-35.53		
7600.00	H	-38.20		
<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	-46.82	-13.00	Pass
5132.10	V	-41.12		
6842.80	V	-38.91		
3421.40	Horizontal	-42.22		
5132.10	H	-40.33		
6842.80	H	-39.83		
<b>Middle Channel</b>				
3465.00	Vertical	-47.16	-13.00	Pass
5197.50	V	-41.18		
6930.00	V	-38.75		
3465.00	Horizontal	-42.57		
5197.50	H	-40.52		
6930.00	H	-39.60		
<b>Highest Channel</b>				
3508.60	Vertical	-47.16	-13.00	Pass
5262.90	V	-41.18		
7017.20	V	-38.75		
3508.60	Horizontal	-42.57		
5262.90	H	-40.52		
7017.20	H	-39.60		
<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	-47.16	-13.00	Pass
5160.00	V	-41.18		
6880.00	V	-38.75		
3440.00	Horizontal	-42.57		
5160.00	H	-40.52		
6880.00	H	-39.60		
<b>Middle Channel</b>				
3465.00	Vertical	-47.16	-13.00	Pass
5197.50	V	-41.18		
6930.00	V	-38.75		
3465.00	Horizontal	-42.57		
5197.50	H	-40.52		
6930.00	H	-39.60		
<b>Highest Channel</b>				
3490.00	Vertical	-47.16	-13.00	Pass
5235.00	V	-41.18		
6980.00	V	-38.75		
3490.00	Horizontal	-42.57		
5235.00	H	-40.52		
6980.00	H	-39.60		
<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	-55.72	-13.00	Pass
2474.10	V	-44.42		
3298.80	V	-50.12		
1649.40	Horizontal	-53.39		
2474.10	H	-44.08		
3298.80	H	-50.28		
<b>Middle Channel</b>				
1673.00	Vertical	-55.97	-13.00	Pass
2509.50	V	-44.30		
3346.00	V	-50.35		
1673.00	Horizontal	-53.16		
2509.50	H	-44.17		
3346.00	H	-50.45		
<b>Highest Channel</b>				
1696.60	Vertical	-55.97	-13.00	Pass
2544.90	V	-44.30		
3393.20	V	-50.35		
1696.60	Horizontal	-53.16		
2544.90	H	-44.17		
3393.20	H	-50.45		
<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	-55.97	-13.00	Pass
2487.00	V	-44.30		
3316.00	V	-50.35		
1658.00	Horizontal	-53.16		
2487.00	H	-44.17		
3316.00	H	-50.45		
<b>Middle Channel</b>				
1673.00	Vertical	-55.97	-13.00	Pass
2509.50	V	-44.30		
3346.00	V	-50.35		
1673.00	Horizontal	-53.16		
2509.50	H	-44.17		
3346.00	H	-50.45		
<b>Highest Channel</b>				
1688.00	Vertical	-55.97	-13.00	Pass
2532.00	V	-44.30		
3376.00	V	-50.35		
1688.00	Horizontal	-53.16		
2532.00	H	-44.17		
3376.00	H	-50.45		
<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	-28.68	-25.00	Pass
7507.50	V	-38.20		
10010.00	V	-36.15		
5005.00	Horizontal	-30.71		
7507.50	H	-35.90		
10010.00	H	-34.26		
<b>Middle Channel</b>				
5070.00	Vertical	-28.58	-25.00	Pass
7605.00	V	-38.08		
10140.00	V	-36.08		
5070.00	Horizontal	-31.15		
7605.00	H	-35.45		
10140.00	H	-34.59		
<b>Highest Channel</b>				
5135.00	Vertical	-28.58	-25.00	Pass
7702.50	V	-38.08		
10270.00	V	-36.08		
5135.00	Horizontal	-31.15		
7702.50	H	-35.45		
10270.00	H	-34.59		
<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	-28.58	-25.00	Pass
7530.00	V	-38.08		
10040.00	V	-36.08		
5020.00	Horizontal	-31.15		
7530.00	H	-35.45		
10040.00	H	-34.59		
<b>Middle Channel</b>				
5070.00	Vertical	-28.58	-25.00	Pass
7605.00	V	-38.08		
10140.00	V	-36.08		
5070.00	Horizontal	-31.15		
7605.00	H	-35.45		
10140.00	H	-34.59		
<b>Highest Channel</b>				
5120.00	Vertical	-28.58	-25.00	Pass
7680.00	V	-38.08		
10240.00	V	-36.08		
5120.00	Horizontal	-31.15		
7680.00	H	-35.45		
10240.00	H	-34.59		
<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>				

## 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:	±2.5ppm for band 5 within authorized band for band 2 and 4 and 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>					
3.80	-30	178	0.094681	within authorized band	Pass
	-20	156	0.082979		
	-10	135	0.071809		
	0	128	0.068085		
	10	169	0.089894		
	20	147	0.078191		
	30	156	0.082979		
	40	130	0.069149		
	50	110	0.058511		
<b>16QAM</b>					
3.80	-30	185	0.098404	within authorized band	Pass
	-20	124	0.065957		
	-10	139	0.073936		
	0	120	0.063830		
	10	159	0.084574		
	20	137	0.072872		
	30	164	0.087234		
	40	102	0.054255		
	50	184	0.097872		
<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>					
3.80	-30	199	0.114863	within authorized band	Pass
	-20	184	0.106205		
	-10	176	0.101587		
	0	180	0.103896		
	10	147	0.084848		
	20	172	0.099278		
	30	183	0.105628		
	40	190	0.109668		
	50	156	0.090043		
<b>16QAM</b>					
3.80	-30	187	0.107937	within authorized band	Pass
	-20	169	0.097547		
	-10	124	0.071573		
	0	156	0.090043		
	10	130	0.075036		
	20	108	0.062338		
	30	147	0.084848		
	40	169	0.097547		
	50	157	0.090620		

*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>					
3.80	-30	198	0.236701	±2.5	Pass
	-20	163	0.194860		
	-10	152	0.181710		
	0	148	0.176928		
	10	196	0.234310		
	20	122	0.145846		
	30	147	0.175732		
	40	102	0.121937		
	50	131	0.156605		
<b>16QAM</b>					
3.80	-30	178	0.212791	±2.5	Pass
	-20	147	0.175732		
	-10	158	0.188882		
	0	152	0.181710		
	10	140	0.167364		
	20	160	0.191273		
	30	159	0.190078		
	40	123	0.147041		
	50	148	0.176928		
<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>					
3.80	-30	176	0.069428	within authorized band	Pass
	-20	152	0.059961		
	-10	130	0.051282		
	0	125	0.049310		
	10	148	0.058383		
	20	136	0.053649		
	30	125	0.049310		
	40	108	0.042604		
	50	137	0.054043		
<b>16QAM</b>					
3.80	-30	183	0.072189	within authorized band	Pass
	-20	149	0.058777		
	-10	157	0.061933		
	0	134	0.052860		
	10	142	0.056016		
	20	156	0.061538		
	30	104	0.041026		
	40	175	0.069034		
	50	180	0.071006		
<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:	±2.5ppm for band 5 within authorized band for band 2 and 4 and 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	4.35	80	0.042553	within authorized band	Pass
	3.80	65	0.034574		
	3.50	47	0.025000		
16QAM					
25	4.35	90	0.047872	within authorized band	Pass
	3.80	60	0.031915		
	3.50	38	0.020213		

*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	4.35	74	0.042713	within authorized band	Pass
	3.80	65	0.037518		
	3.50	35	0.020202		
16QAM					
25	4.35	84	0.048485	within authorized band	Pass
	3.80	80	0.046176		
	3.50	40	0.023088		

*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	4.35	78	0.093246	±2.5	Pass
	3.80	74	0.088464		
	3.50	66	0.078900		
16QAM					
25	4.35	98	0.117155	±2.5	Pass
	3.80	54	0.064555		
	3.50	76	0.090855		

*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	4.35	78	0.030769	within authorized band	Pass
	3.80	56	0.022091		
	3.50	32	0.012623		
16QAM					
25	4.35	48	0.018935	within authorized band	Pass
	3.80	14	0.005523		
	3.50	36	0.014201		

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