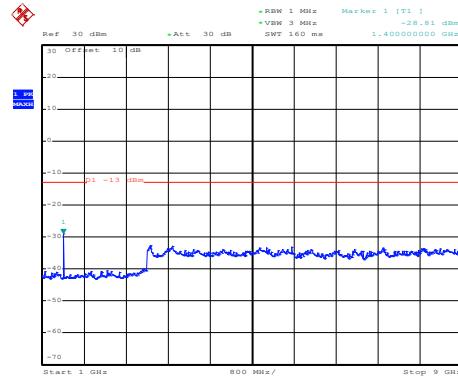
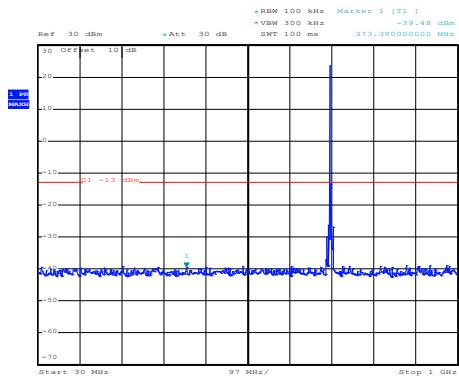


LTE Band 17 part:

LTE Band 17: 16 QAM & RB Size 1

BW: 5MHz

Lowest channel



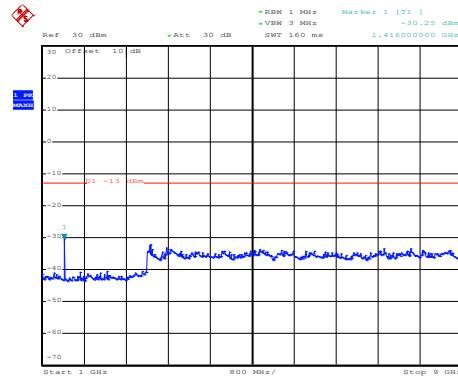
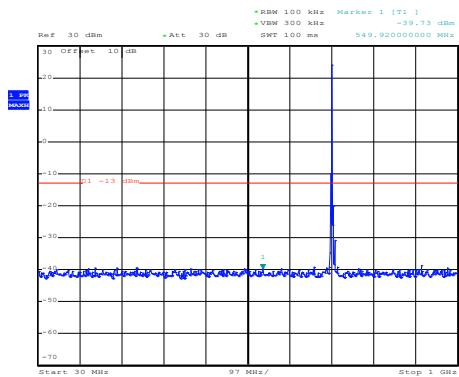
Date: 14.AUG.2019 17:02:48

30MHz~1GHz

Date: 15.AUG.2019 19:11:14

1GHz~25GHz

Middle channel



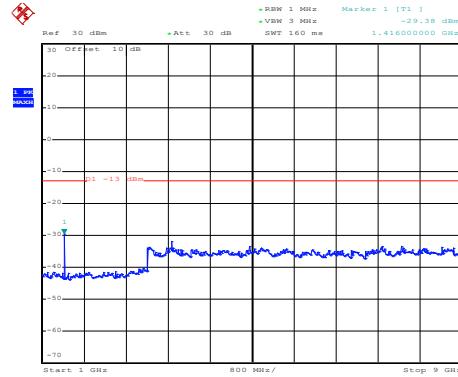
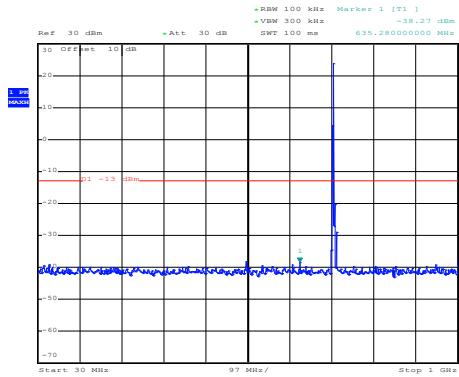
Date: 15.AUG.2019 17:52:02

30MHz~1GHz

Date: 15.AUG.2019 19:09:30

1GHz~25GHz

High channel

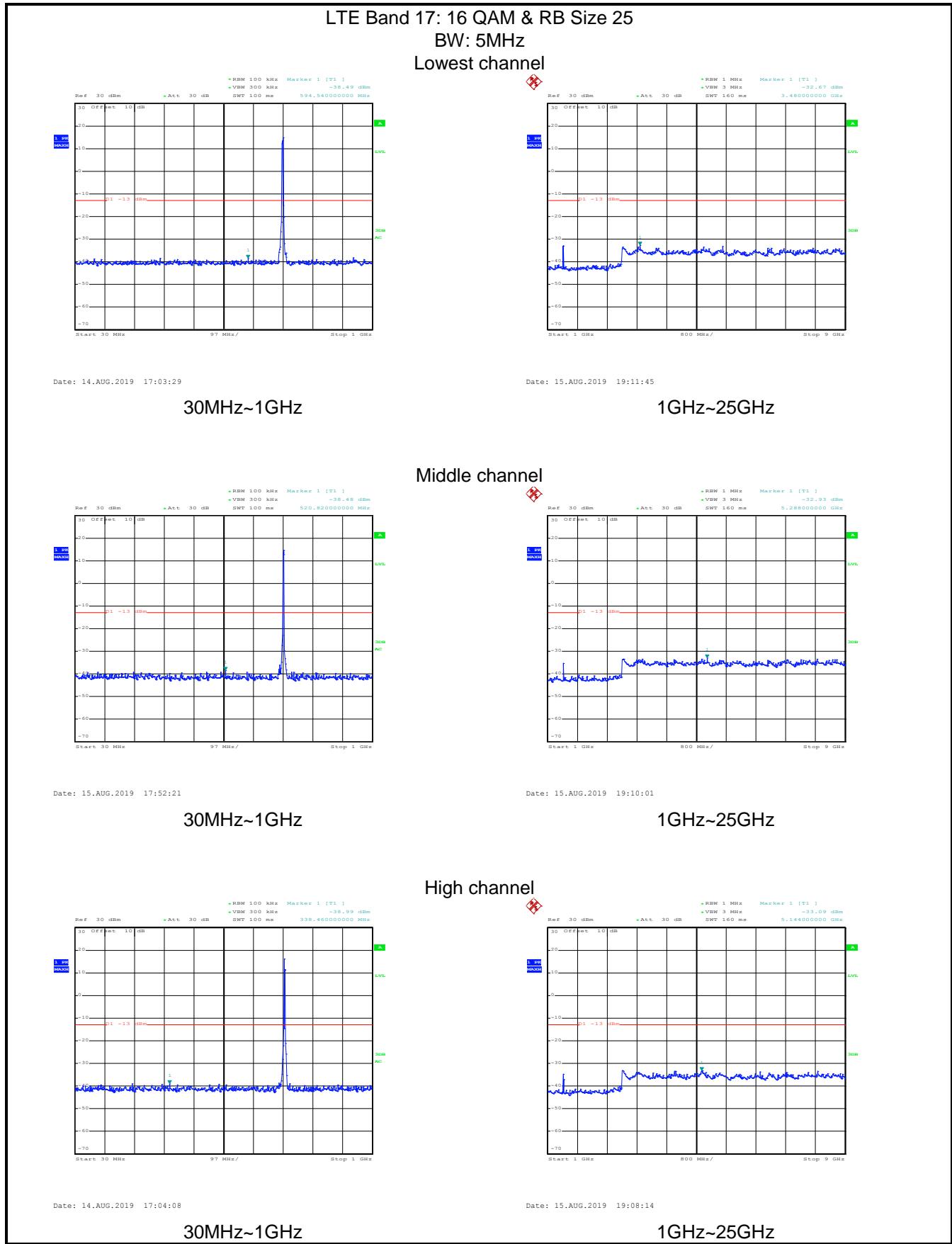


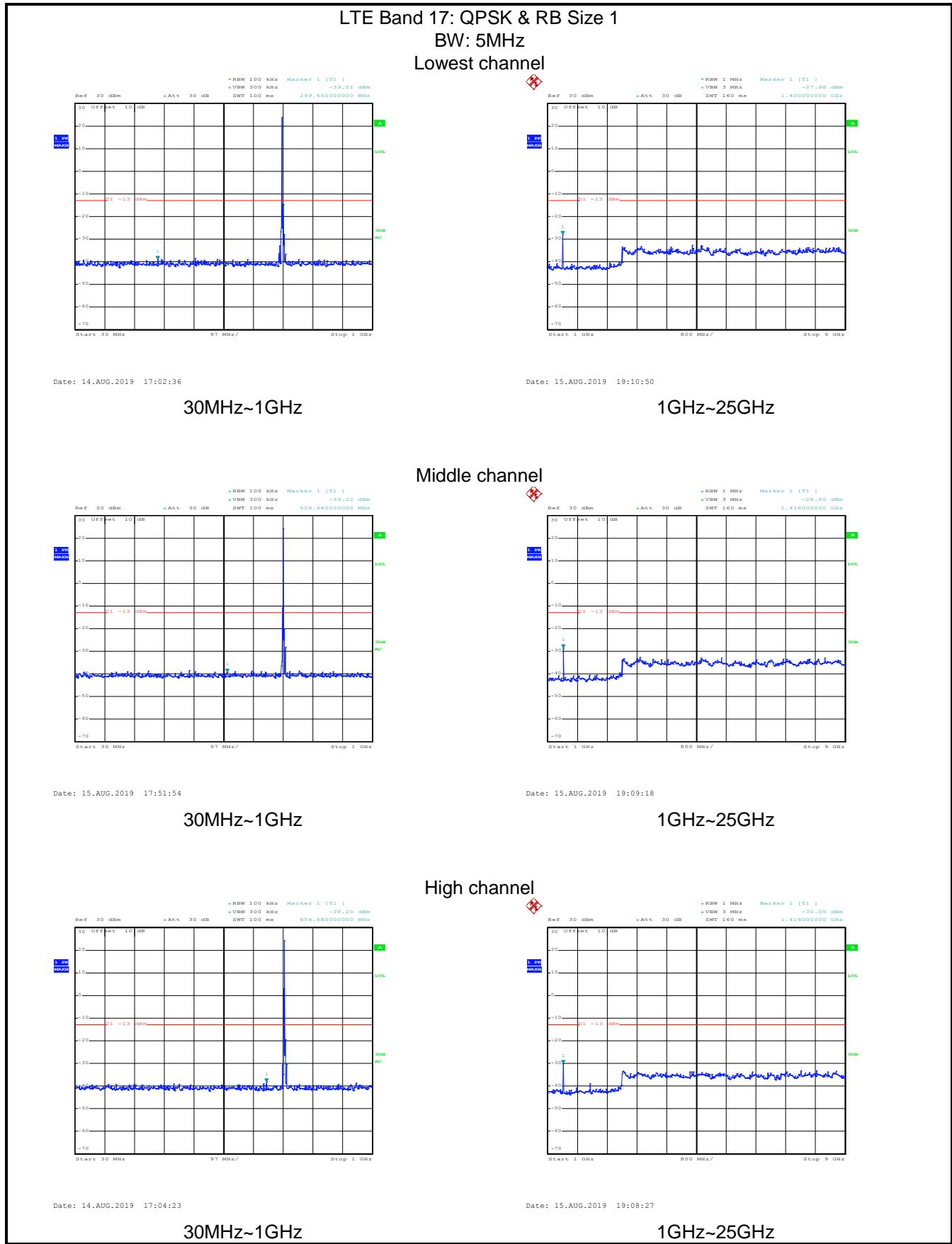
Date: 14.AUG.2019 17:04:31

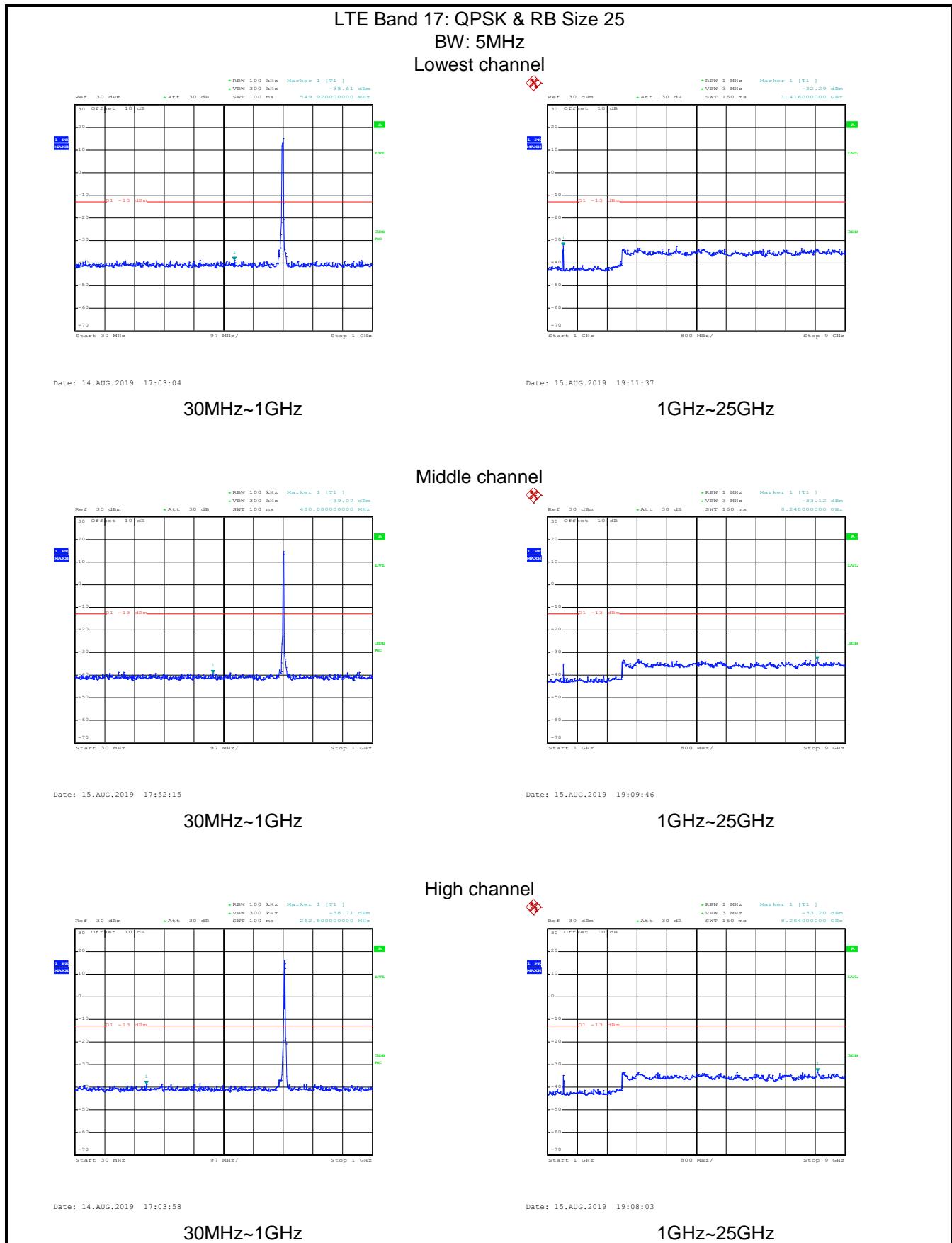
30MHz~1GHz

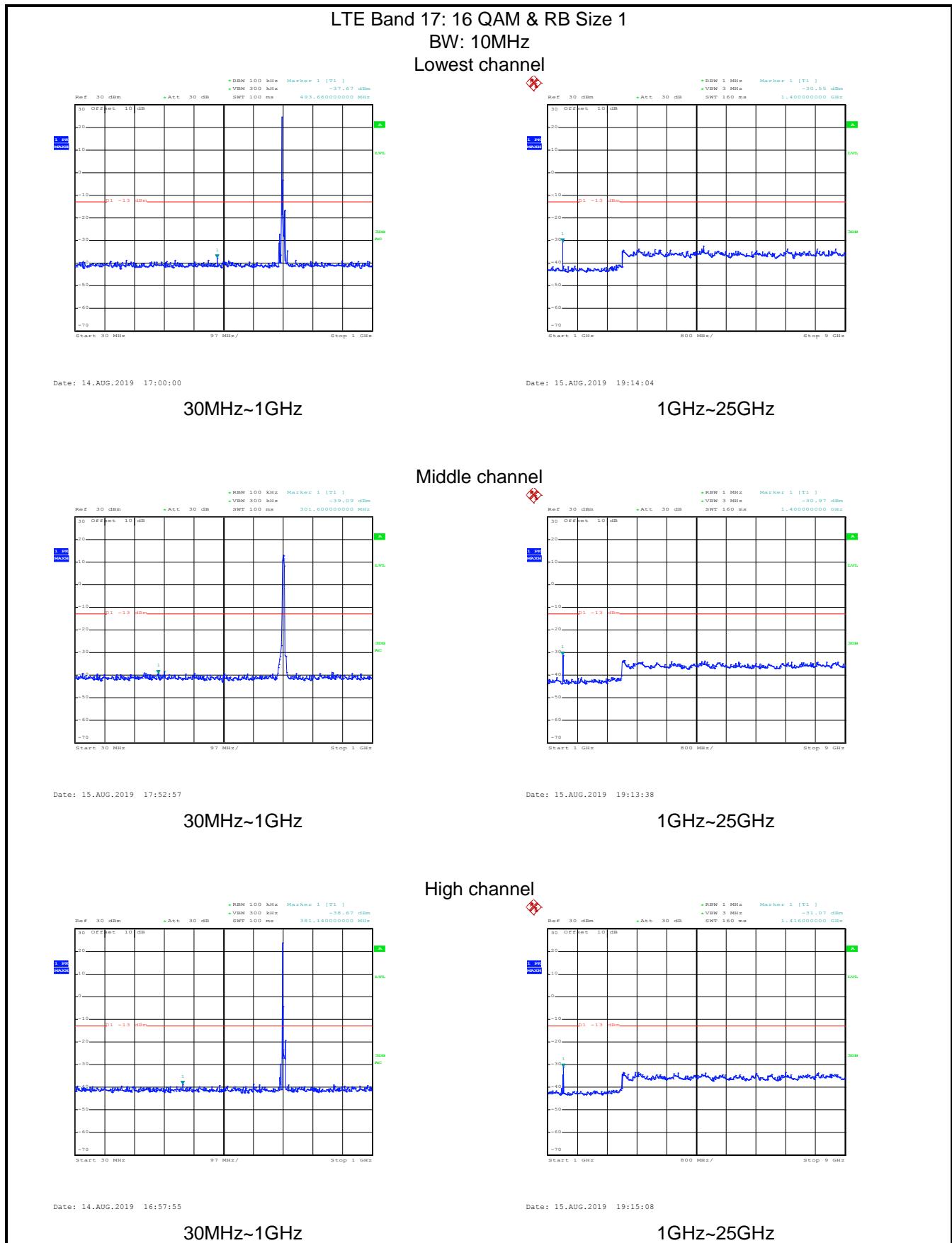
Date: 15.AUG.2019 19:08:38

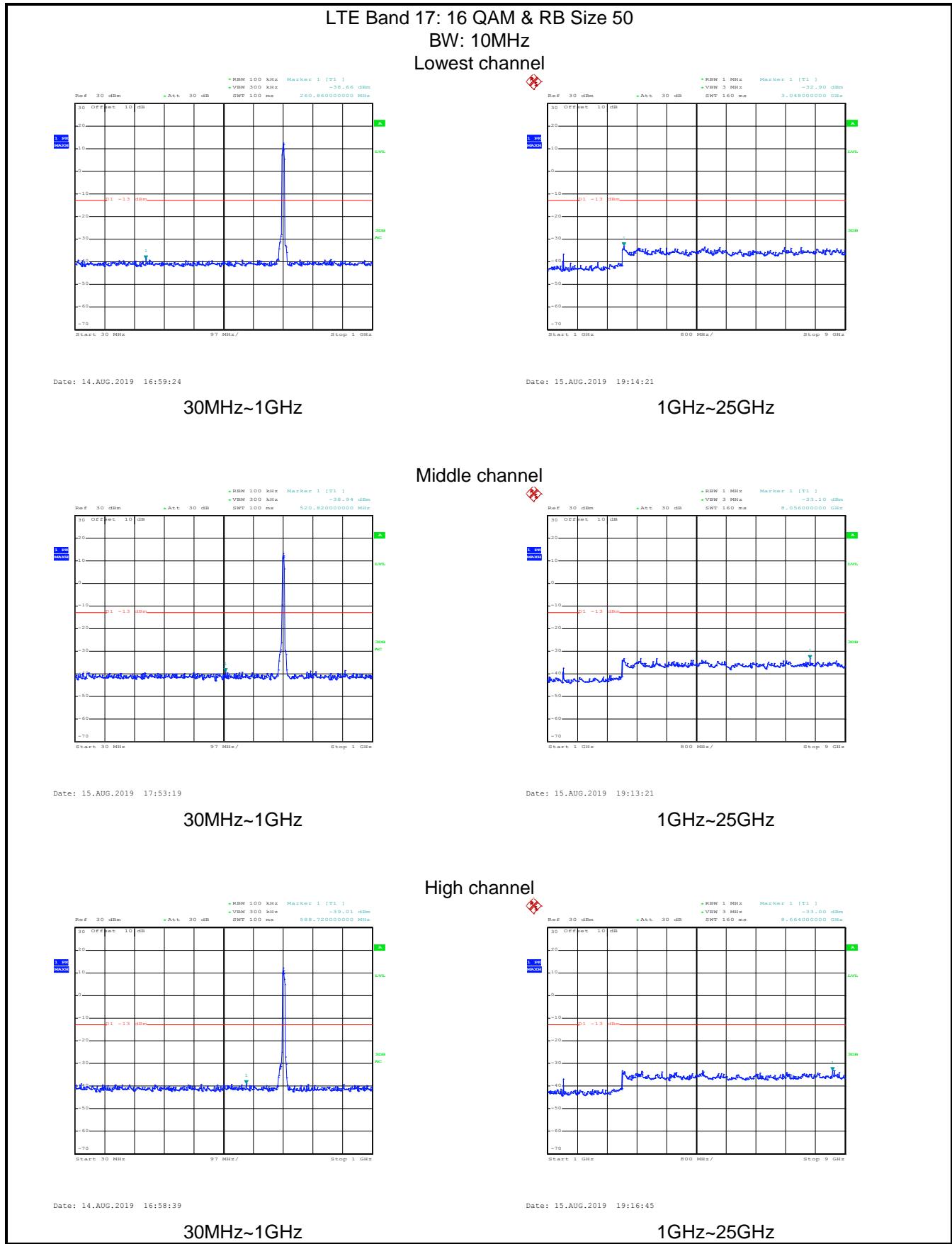
1GHz~25GHz







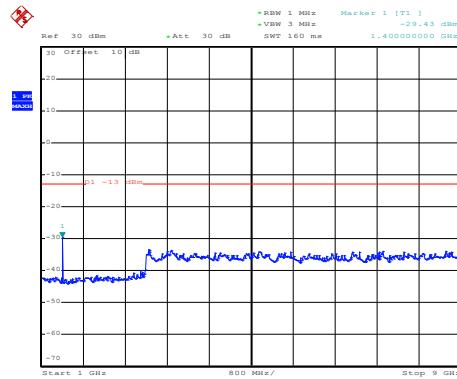
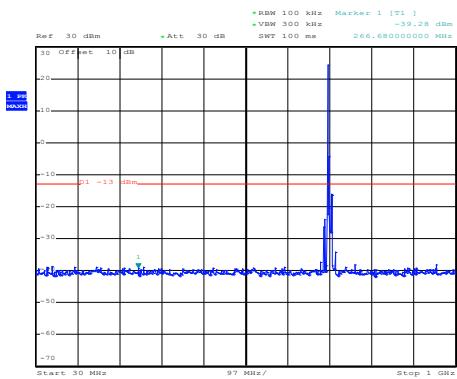




LTE Band 17: QPSK & RB Size 1

BW: 10MHz

Lowest channel



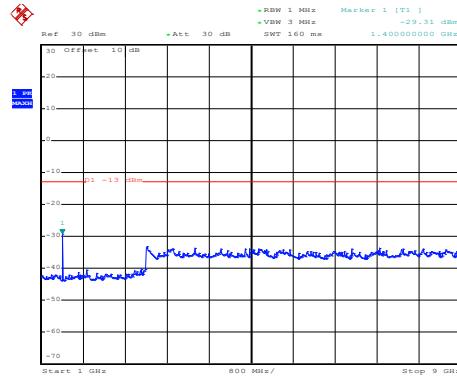
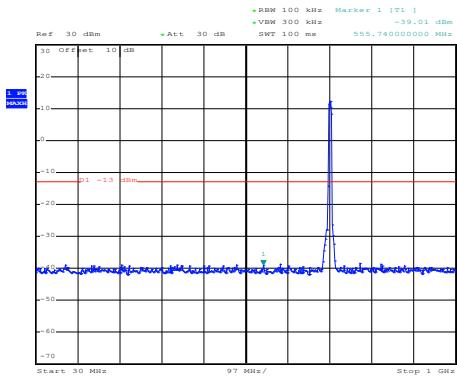
Date: 14.AUG.2019 16:59:43

30MHz~1GHz

Date: 15.AUG.2019 19:13:58

1GHz~25GHz

Middle channel



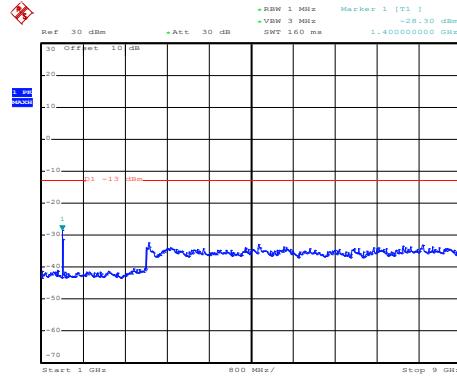
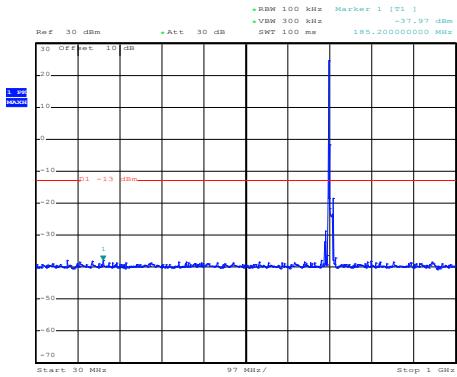
Date: 15.AUG.2019 17:52:48

30MHz~1GHz

Date: 15.AUG.2019 19:13:30

1GHz~25GHz

High channel

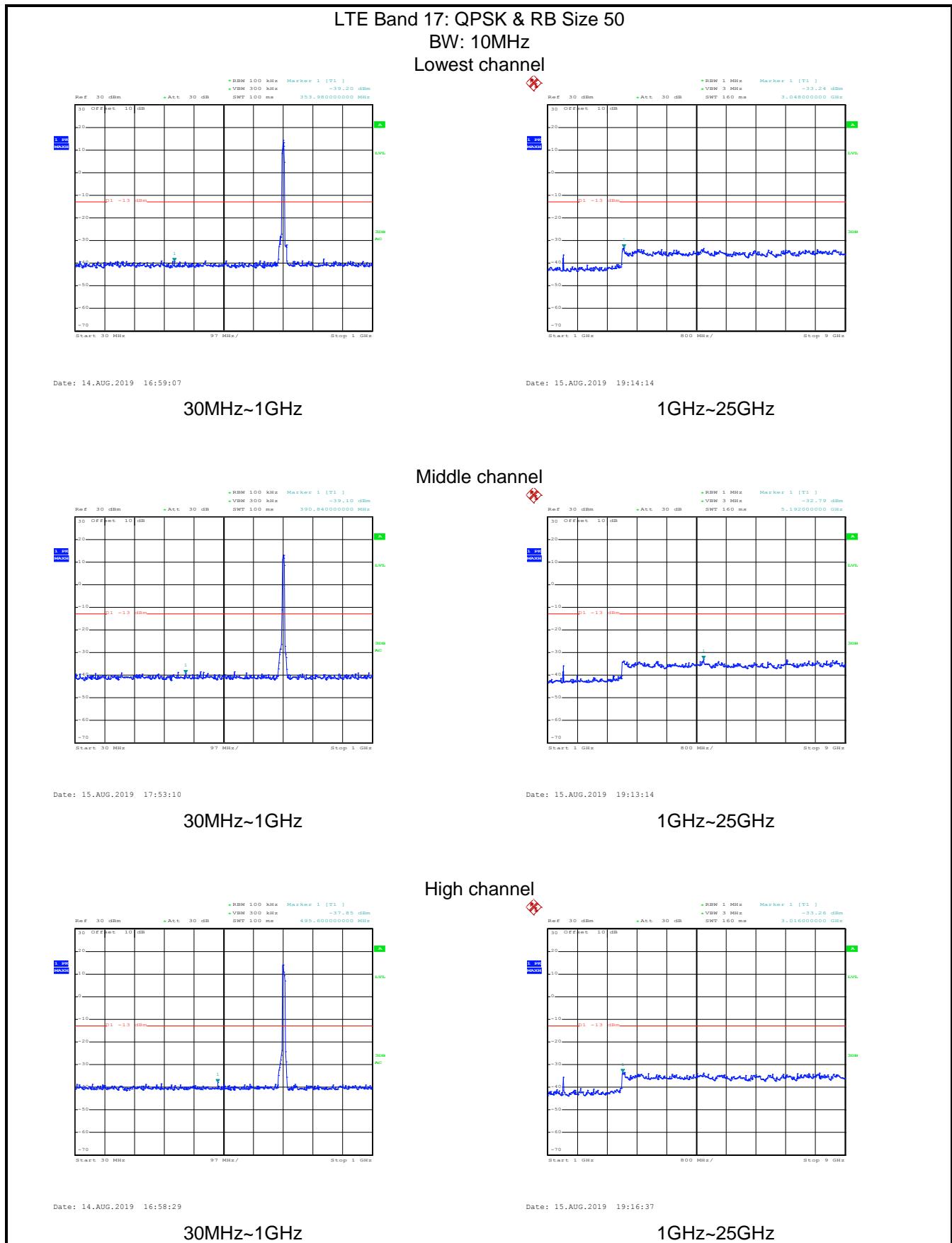


Date: 14.AUG.2019 16:57:38

30MHz~1GHz

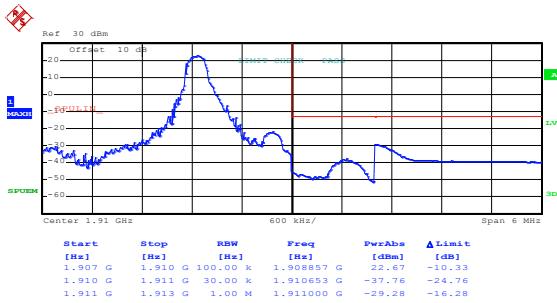
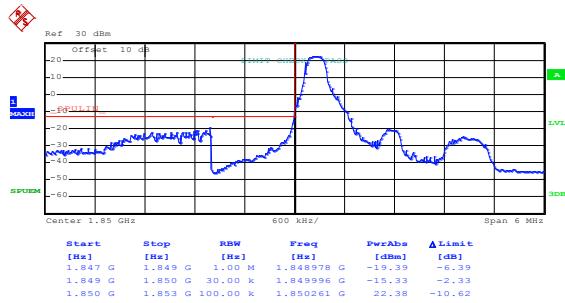
Date: 15.AUG.2019 19:14:58

1GHz~25GHz



Band edge emission:

LTE Band 2 part:

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

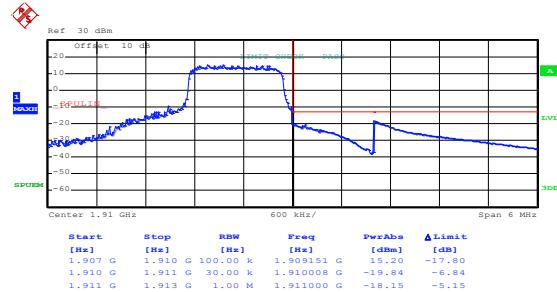
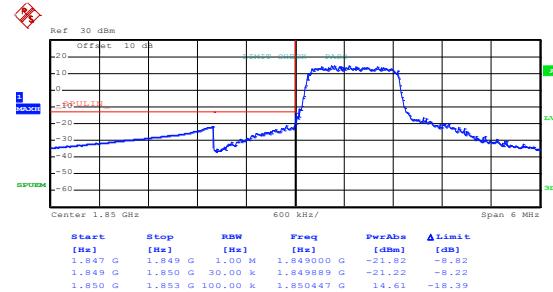
Date: 16.AUG.2019 08:56:22

Date: 16.AUG.2019 08:58:32

Lowest channel

Highest channel

16QAM & RB Size 6



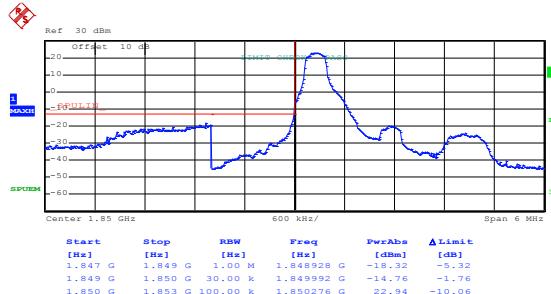
Date: 16.AUG.2019 08:57:10

Date: 16.AUG.2019 08:58:12

Lowest channel

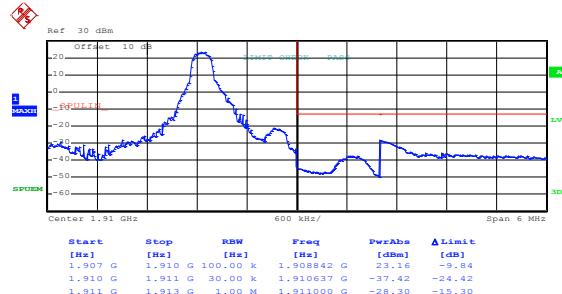
Highest channel

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



Date: 16.AUG.2019 08:56:11

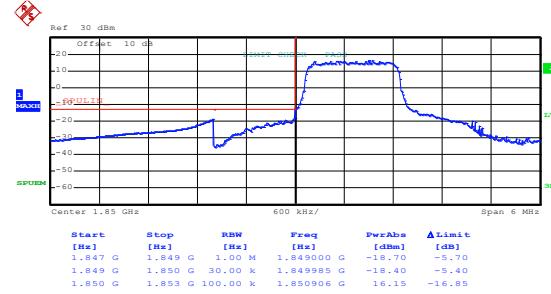
Lowest channel



Date: 16.AUG.2019 08:58:25

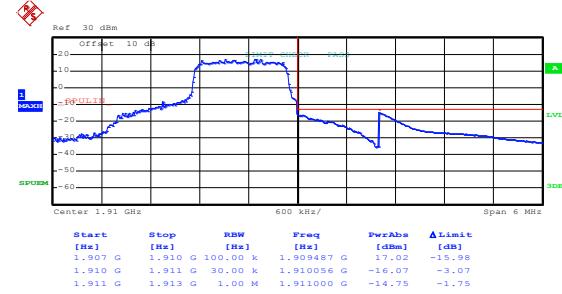
Highest channel

QPSK & RB Size 6



Date: 16.AUG.2019 08:57:01

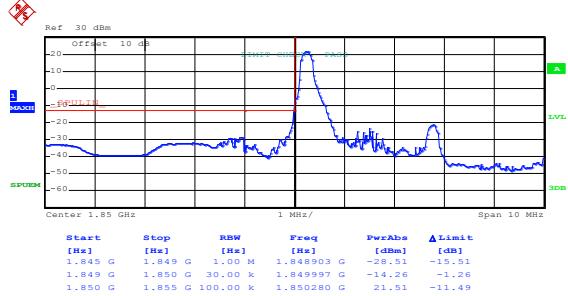
Lowest channel



Date: 16.AUG.2019 08:58:05

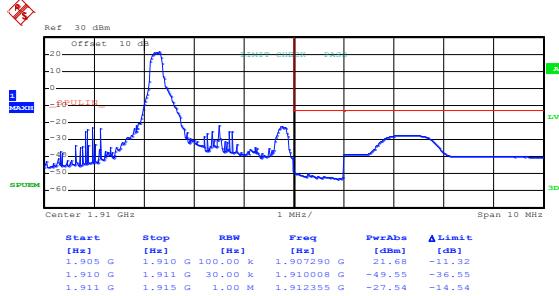
Highest channel

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



Date: 16.AUG.2019 09:06:13

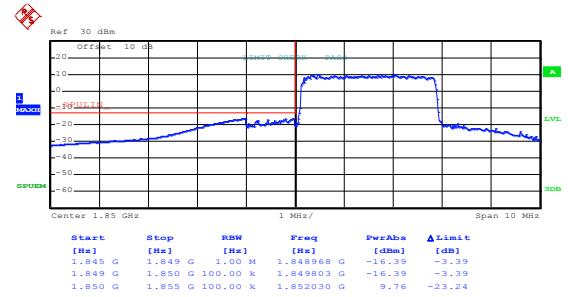
Lowest channel



Date: 16.AUG.2019 09:03:06

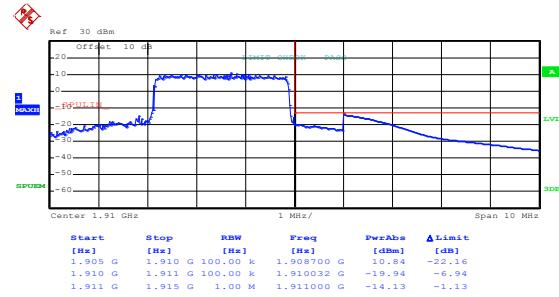
Highest channel

16QAM & RB Size 15



Date: 16.AUG.2019 09:05:45

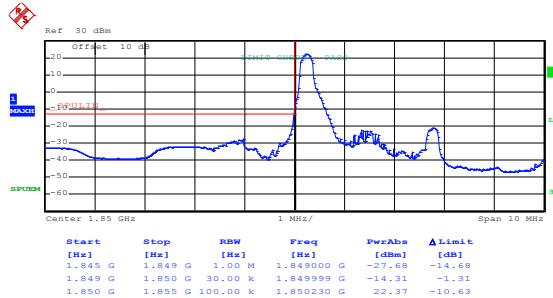
Lowest channel



Date: 16.AUG.2019 09:04:39

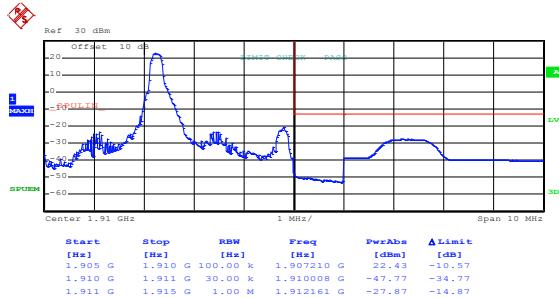
Highest channel

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



Date: 16.AUG.2019 09:06:06

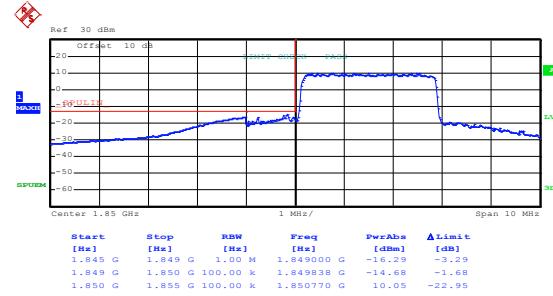
Lowest channel



Date: 16.AUG.2019 09:02:53

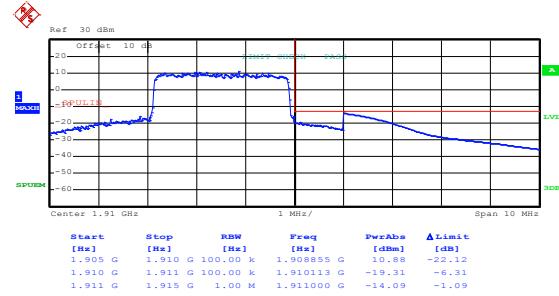
Highest channel

QPSK & RB Size 15



Date: 16.AUG.2019 09:05:39

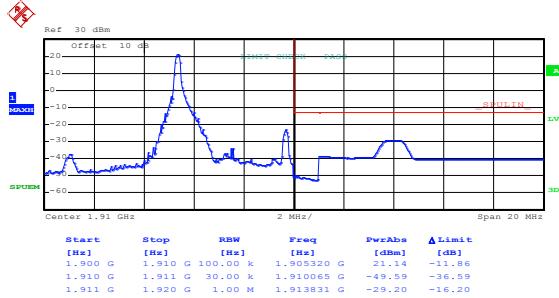
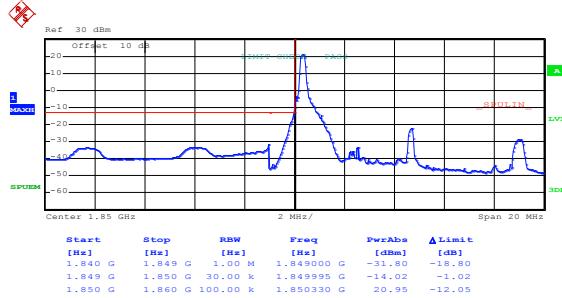
Lowest channel



Date: 16.AUG.2019 09:04:24

Highest channel

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



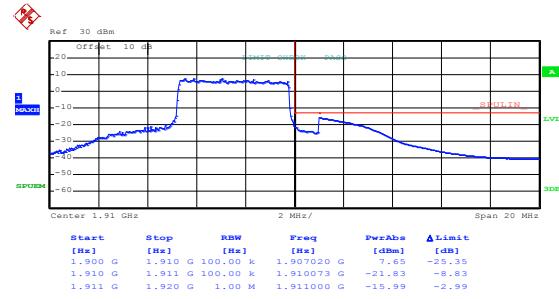
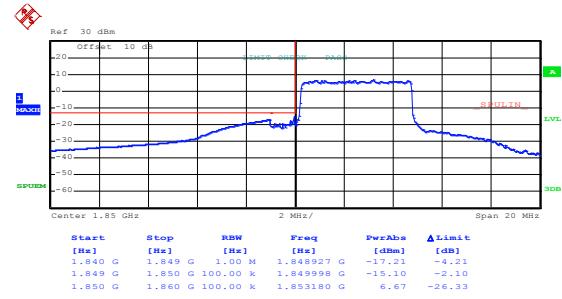
Date: 16.AUG.2019 09:08:51

Date: 16.AUG.2019 09:10:43

Lowest channel

Highest channel

16QAM & RB Size 25



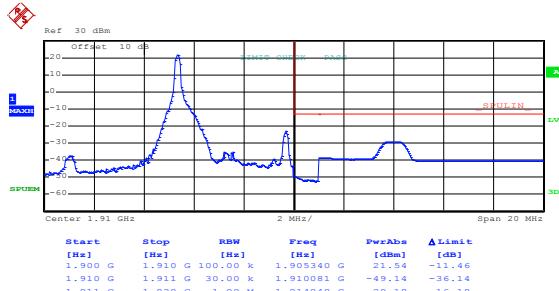
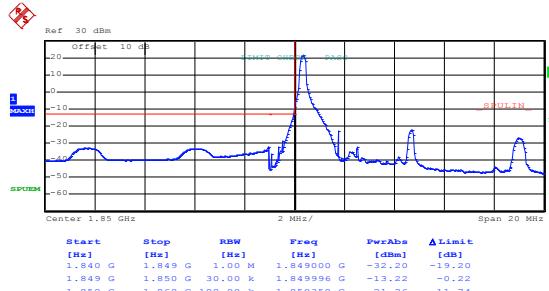
Date: 16.AUG.2019 09:09:28

Date: 16.AUG.2019 09:10:15

Lowest channel

Highest channel

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



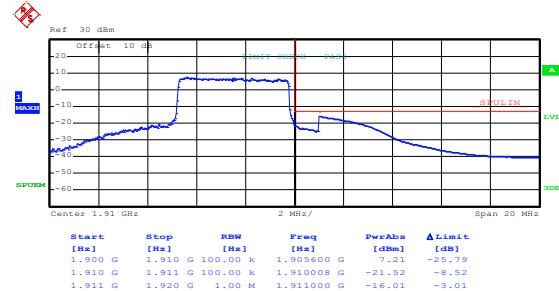
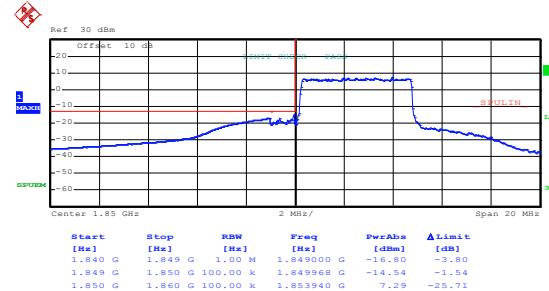
Date: 16.AUG.2019 09:08:45

Lowest channel

Date: 16.AUG.2019 09:10:35

Highest channel

QPSK & RB Size 25



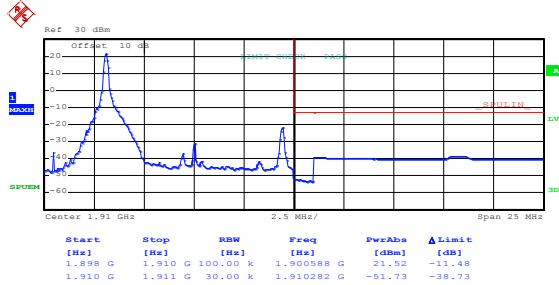
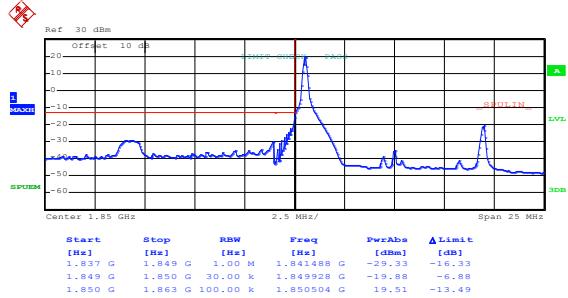
Date: 16.AUG.2019 09:09:24

Lowest channel

Date: 16.AUG.2019 09:10:07

Highest channel

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



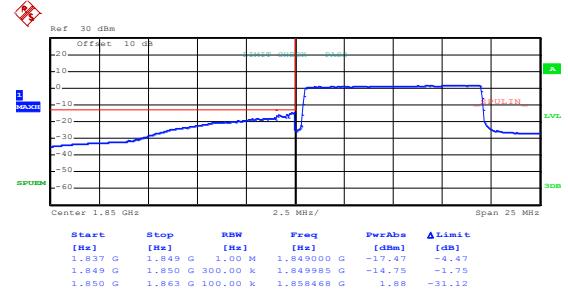
Date: 16.AUG.2019 09:14:45

Date: 16.AUG.2019 09:11:34

Lowest channel

Highest channel

16QAM & RB Size 50



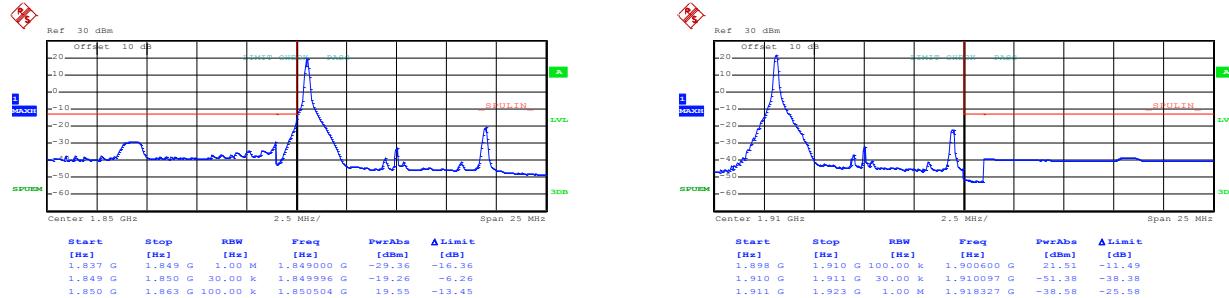
Date: 16.AUG.2019 09:14:07

Date: 16.AUG.2019 09:12:08

Lowest channel

Highest channel

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



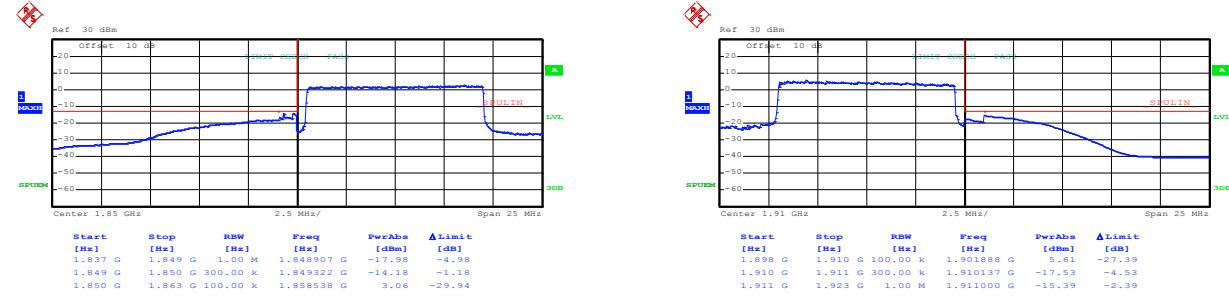
Date: 16.AUG.2019 09:14:36

Lowest channel

Date: 16.AUG.2019 09:11:27

Highest channel

QPSK & RB Size 50



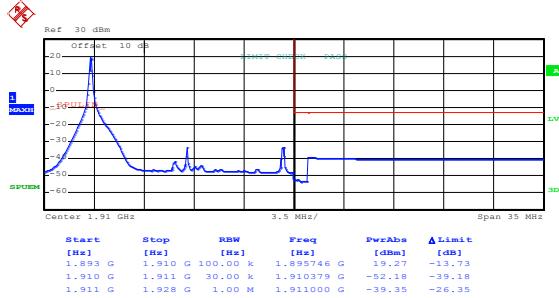
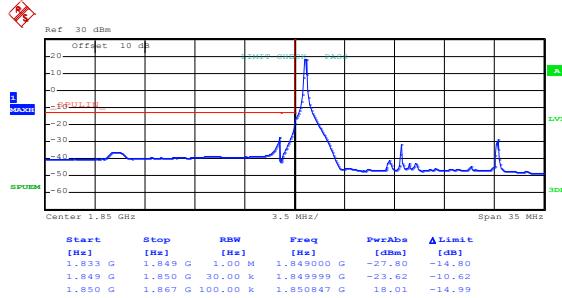
Date: 16.AUG.2019 09:13:23

Lowest channel

Date: 16.AUG.2019 09:11:59

Highest channel

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



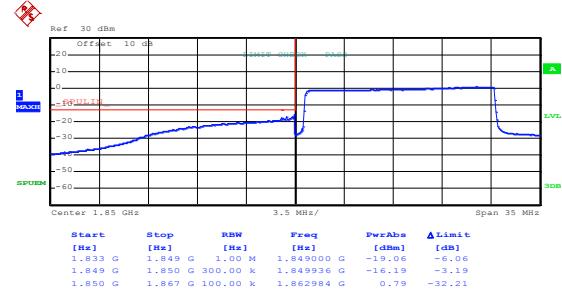
Date: 16.AUG.2019 09:15:33

Date: 16.AUG.2019 09:17:31

Lowest channel

Highest channel

16QAM & RB Size 75



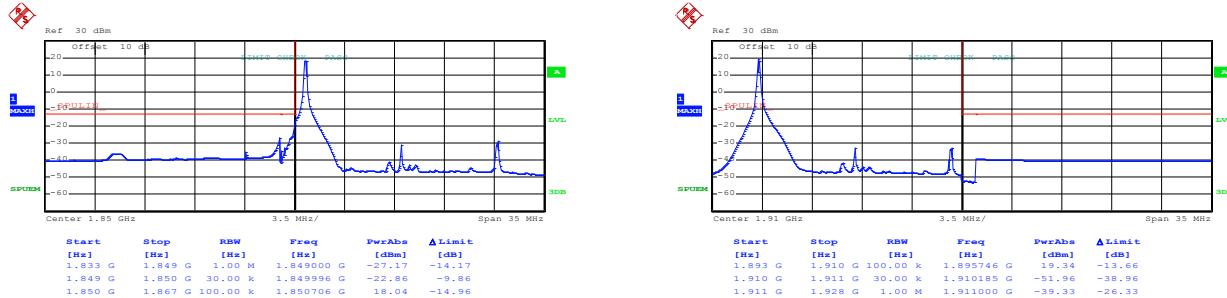
Date: 16.AUG.2019 09:16:09

Date: 16.AUG.2019 09:16:53

Lowest channel

Highest channel

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



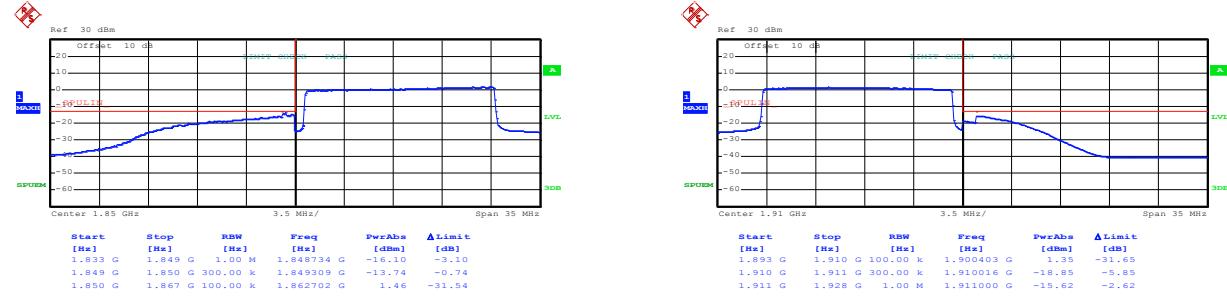
Date: 16.AUG.2019 09:15:26

Date: 16.AUG.2019 09:17:22

Lowest channel

Highest channel

QPSK & RB Size 75



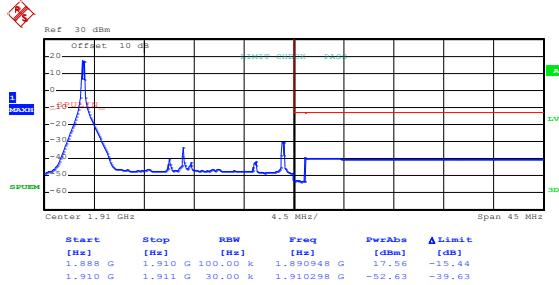
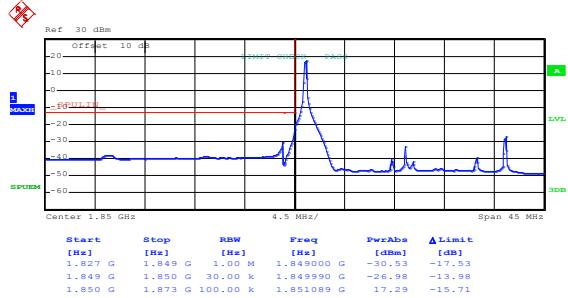
Date: 16.AUG.2019 09:16:01

Date: 16.AUG.2019 09:16:37

Lowest channel

Highest channel

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



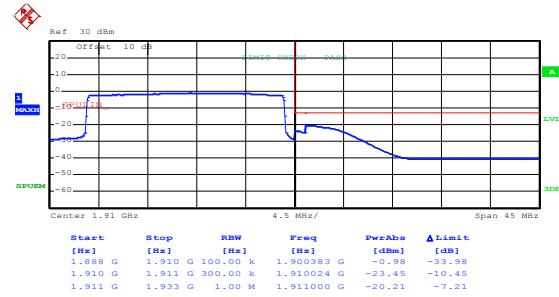
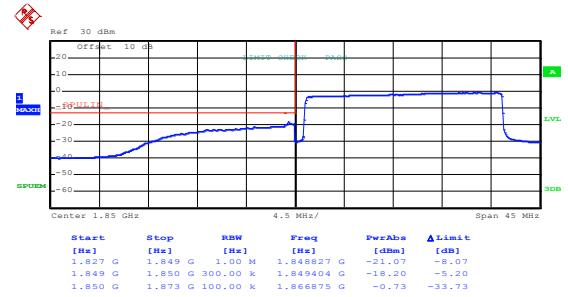
Date: 16.AUG.2019 09:20:06

Lowest channel

Date: 16.AUG.2019 09:18:26

Highest channel

16QAM & RB Size 100



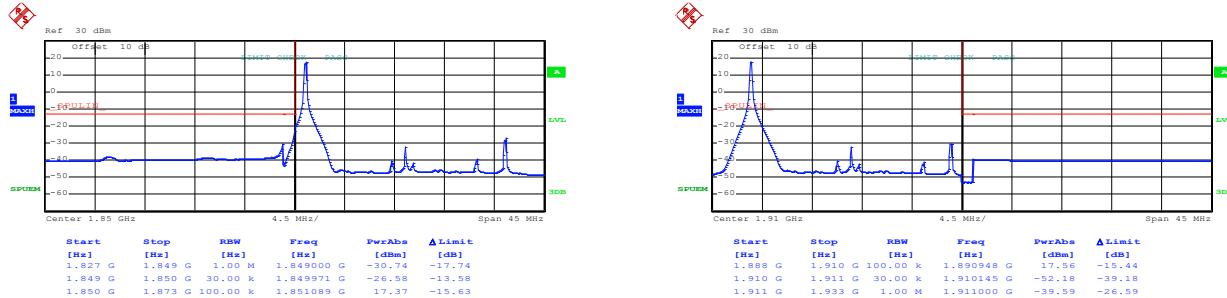
Date: 16.AUG.2019 09:19:33

Lowest channel

Date: 16.AUG.2019 09:19:03

Highest channel

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



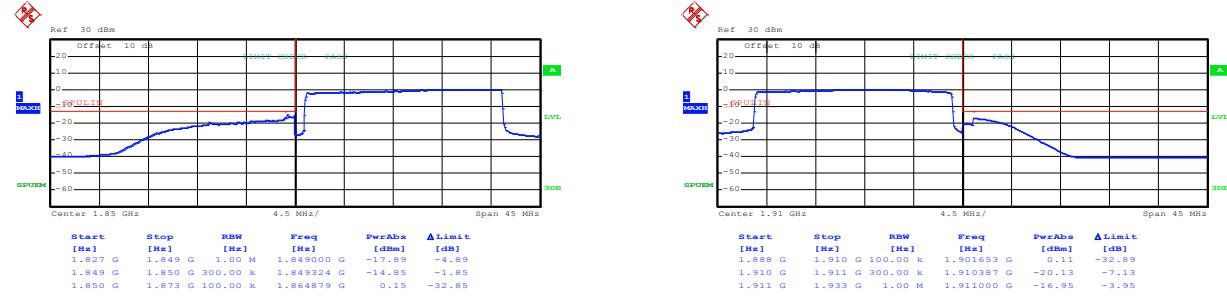
Date: 16.AUG.2019 09:19:58

Date: 16.AUG.2019 09:18:16

Lowest channel

Highest channel

QPSK & RB Size 100



Date: 16.AUG.2019 09:19:25

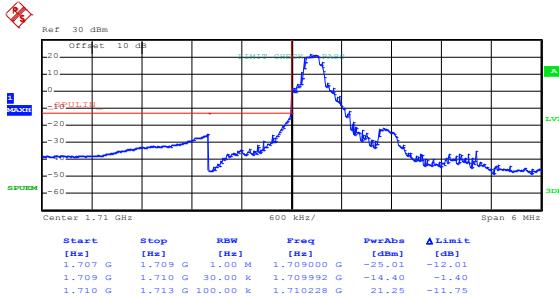
Date: 16.AUG.2019 09:18:52

Lowest channel

Highest channel

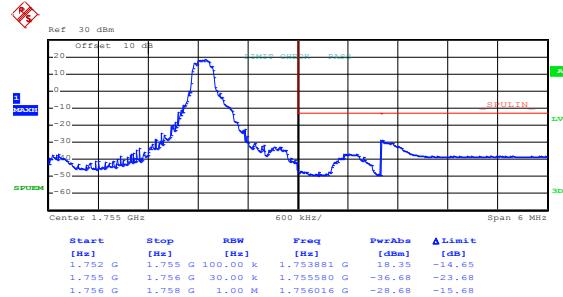
LTE Band 4 part:

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



Date: 16.AUG.2019 09:25:02

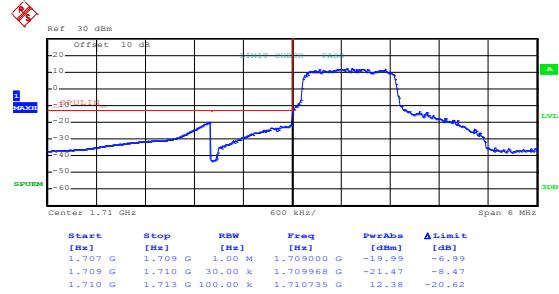
Lowest channel



Date: 16.AUG.2019 09:28:03

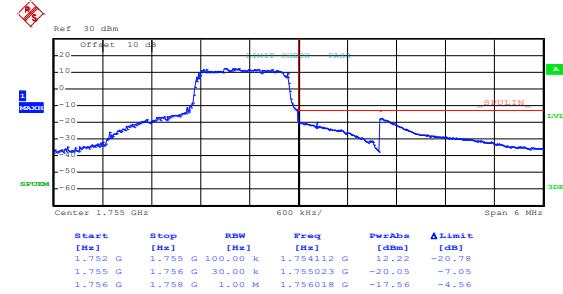
Highest channel

16QAM & RB Size 6



Date: 16.AUG.2019 09:26:44

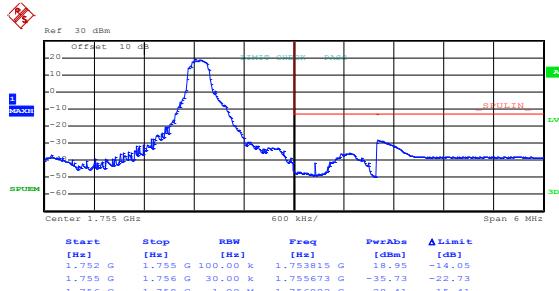
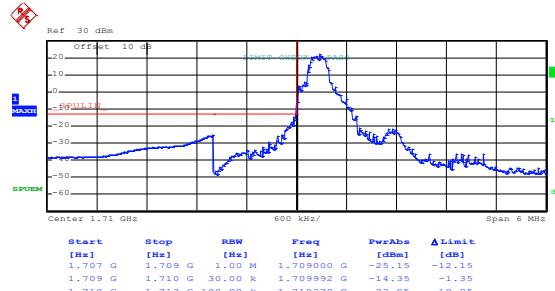
Lowest channel



Date: 16.AUG.2019 09:27:28

Highest channel

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



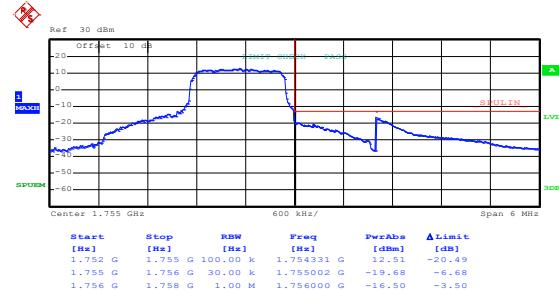
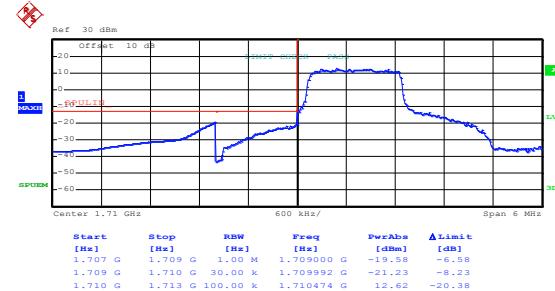
Date: 16.AUG.2019 09:24:38

Lowest channel

Date: 16.AUG.2019 09:27:57

Highest channel

QPSK & RB Size 6



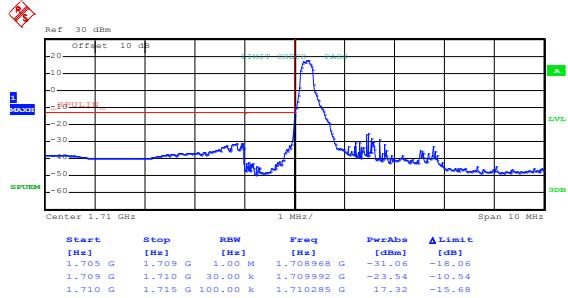
Date: 16.AUG.2019 09:26:31

Lowest channel

Date: 16.AUG.2019 09:27:18

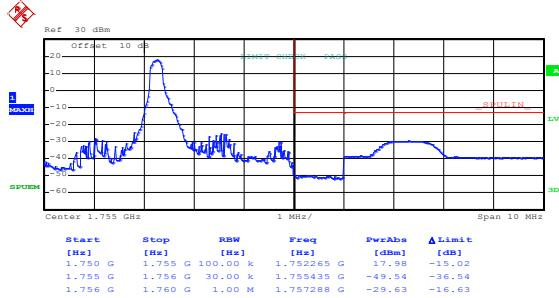
Highest channel

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



Date: 16.AUG.2019 09:32:04

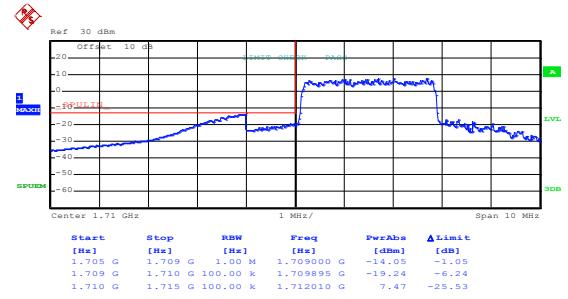
Lowest channel



Date: 16.AUG.2019 09:28:59

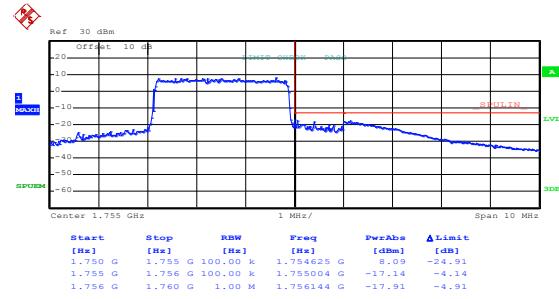
Highest channel

16QAM & RB Size 15



Date: 16.AUG.2019 09:31:35

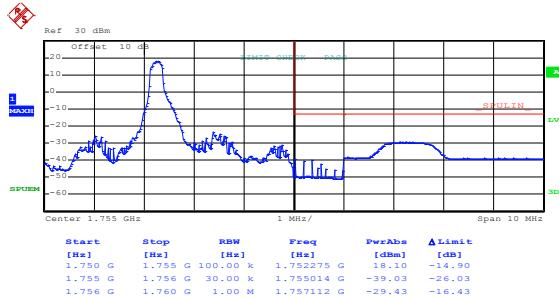
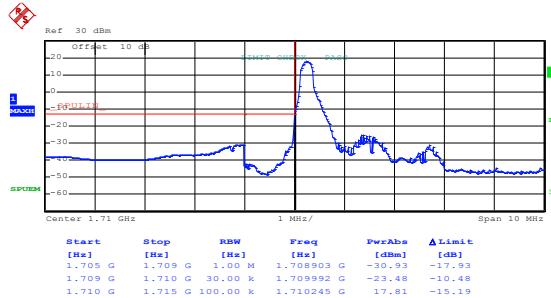
Lowest channel



Date: 16.AUG.2019 09:29:56

Highest channel

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



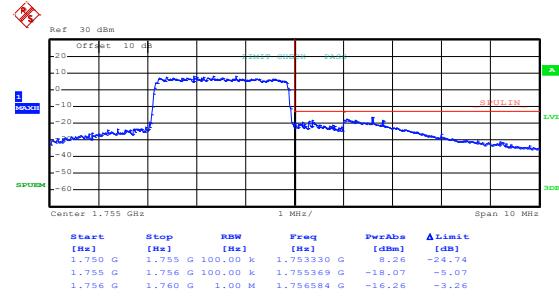
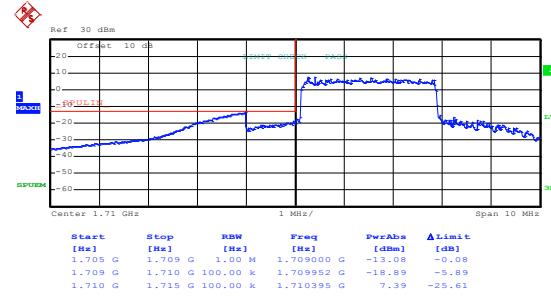
Date: 16.AUG.2019 09:31:56

Date: 16.AUG.2019 09:28:53

Lowest channel

Highest channel

QPSK & RB Size 15



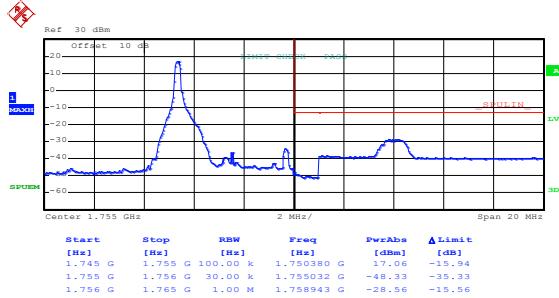
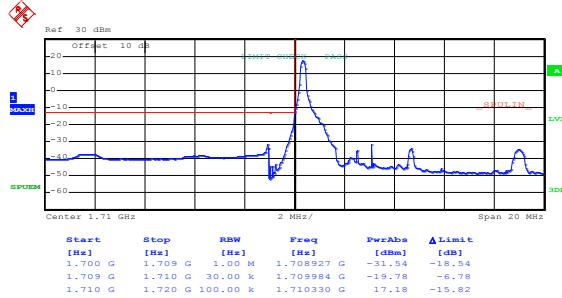
Date: 16.AUG.2019 09:30:49

Date: 16.AUG.2019 09:29:47

Lowest channel

Highest channel

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



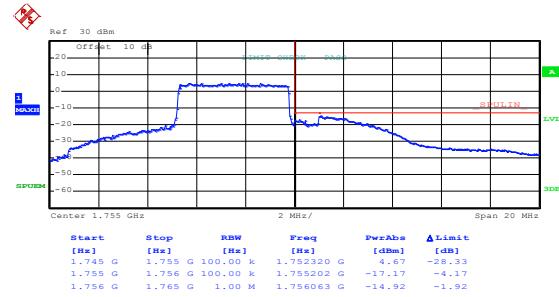
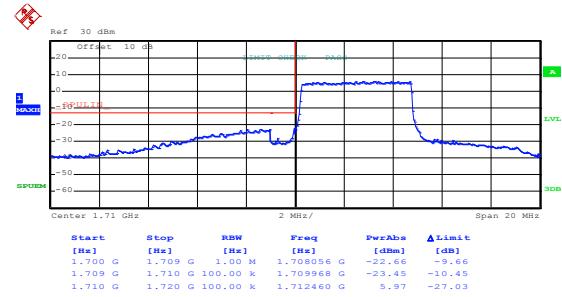
Date: 16.AUG.2019 09:33:08

Date: 16.AUG.2019 09:35:00

Lowest channel

Highest channel

16QAM & RB Size 25



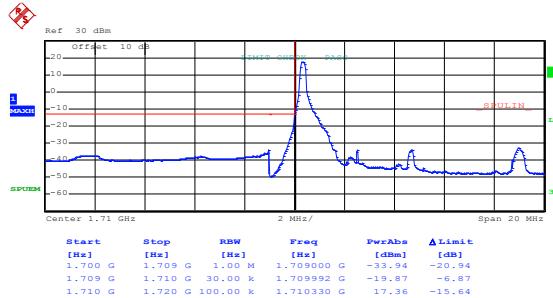
Date: 28.AUG.2019 16:54:50

Date: 16.AUG.2019 09:34:34

Lowest channel

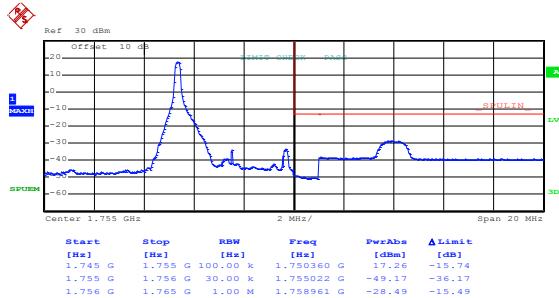
Highest channel

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



Date: 16.AUG.2019 09:33:01

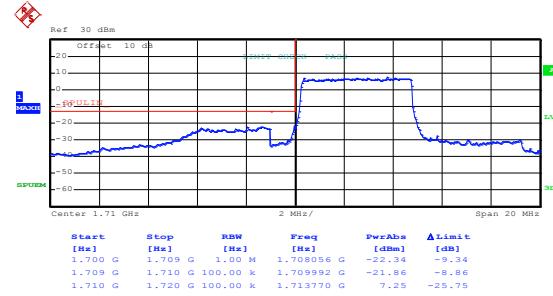
Lowest channel



Date: 16.AUG.2019 09:34:55

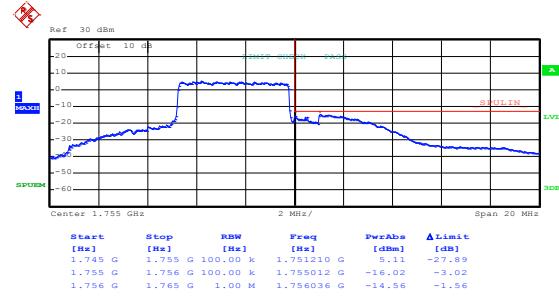
Highest channel

QPSK & RB Size 25



Date: 28.AUG.2019 16:54:43

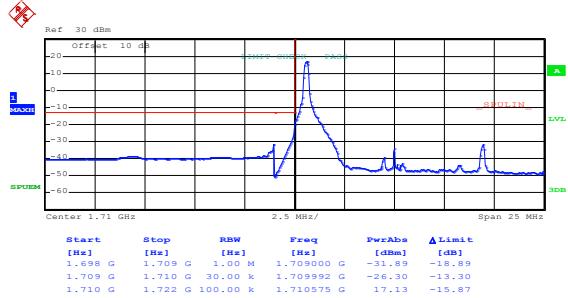
Lowest channel



Date: 16.AUG.2019 09:34:28

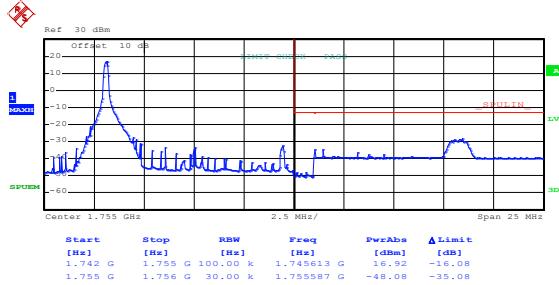
Highest channel

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



Date: 16.AUG.2019 09:38:37

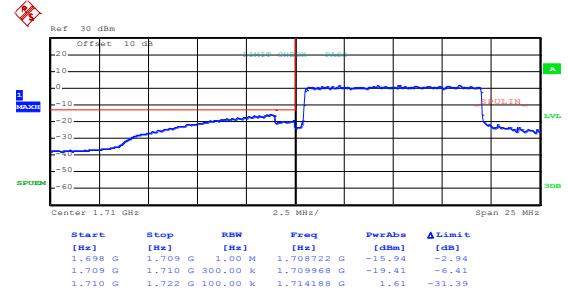
Lowest channel



Date: 16.AUG.2019 09:39:15

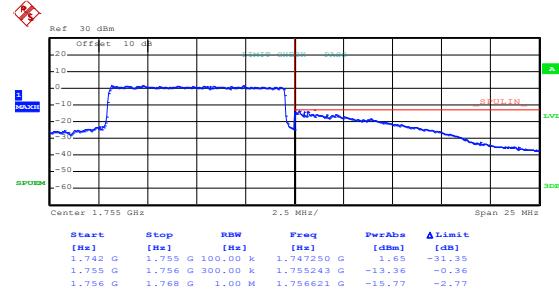
Highest channel

16QAM & RB Size 50



Date: 16.AUG.2019 09:38:12

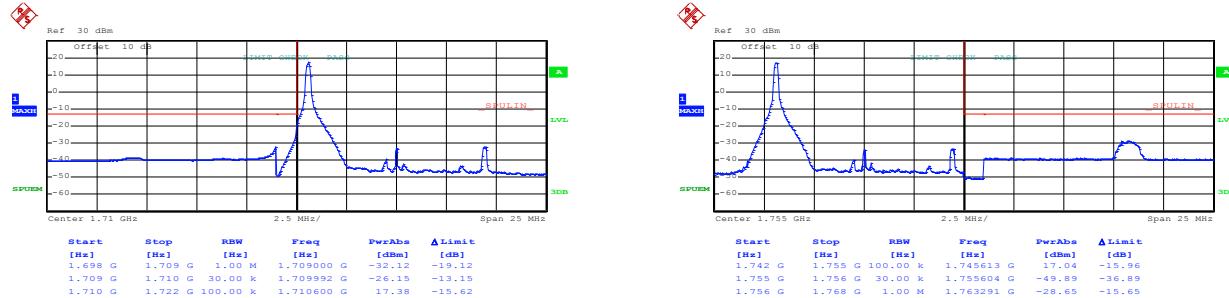
Lowest channel



Date: 16.AUG.2019 09:39:42

Highest channel

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



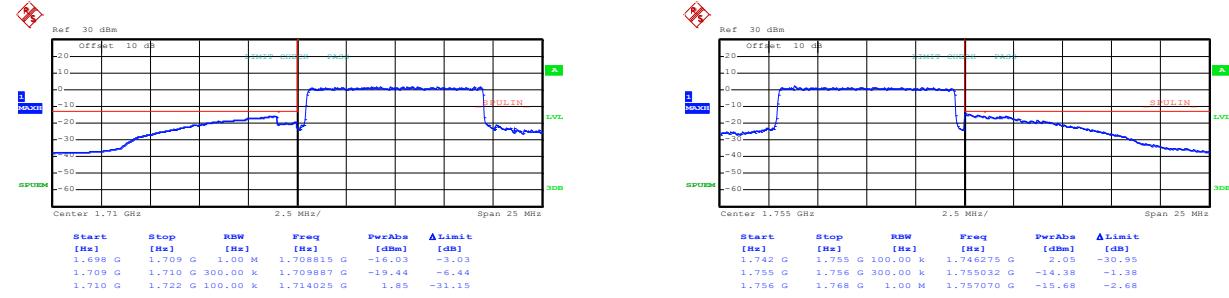
Date: 16.AUG.2019 09:38:33

Lowest channel

Date: 16.AUG.2019 09:39:07

Highest channel

QPSK & RB Size 50



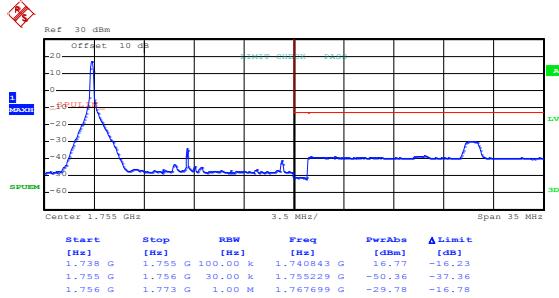
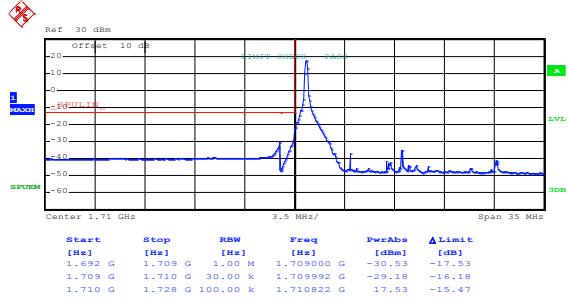
Date: 16.AUG.2019 09:38:05

Lowest channel

Date: 16.AUG.2019 09:39:35

Highest channel

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



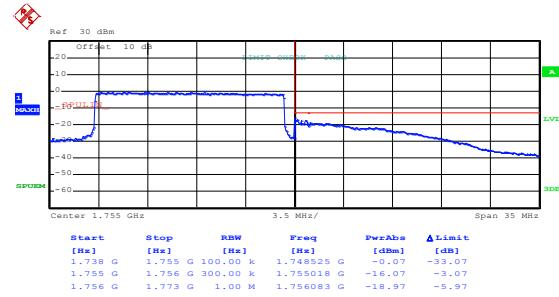
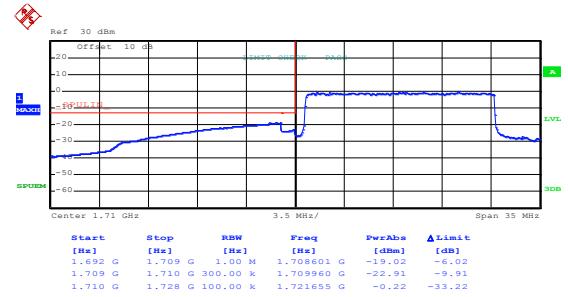
Date: 16.AUG.2019 09:41:49

Date: 16.AUG.2019 09:41:13

Lowest channel

Highest channel

16QAM & RB Size 75



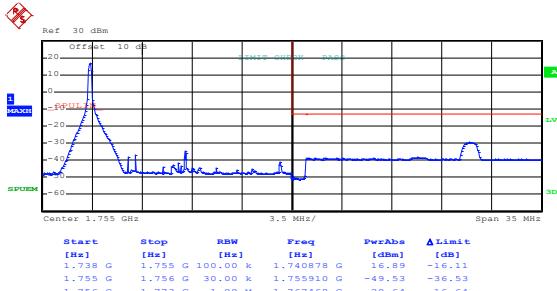
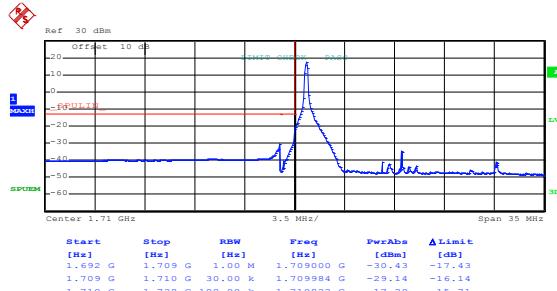
Date: 16.AUG.2019 09:42:15

Date: 16.AUG.2019 09:40:48

Lowest channel

Highest channel

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



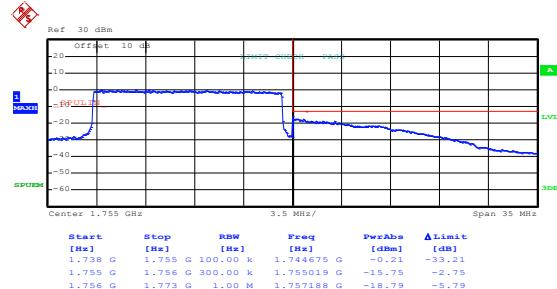
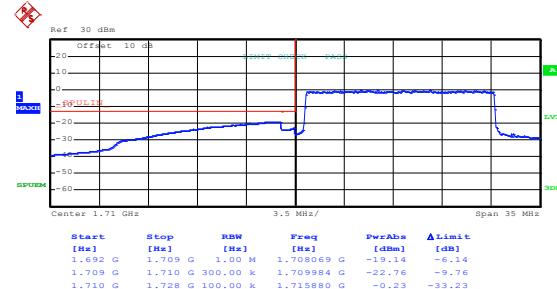
Date: 16.AUG.2019 09:41:43

Date: 16.AUG.2019 09:41:07

Lowest channel

Highest channel

QPSK & RB Size 75



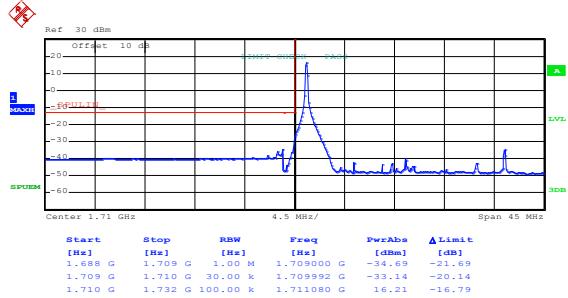
Date: 16.AUG.2019 09:42:09

Date: 16.AUG.2019 09:40:41

Lowest channel

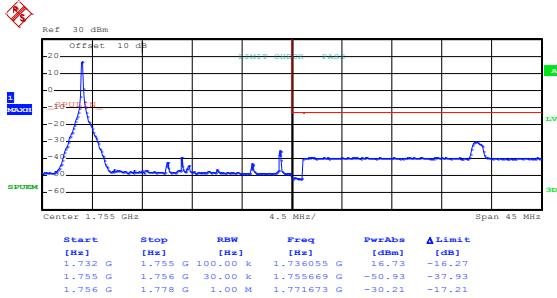
Highest channel

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



Date: 16.AUG.2019 09:43:36

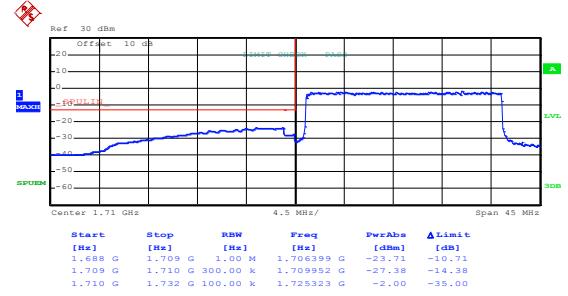
Lowest channel



Date: 16.AUG.2019 09:44:00

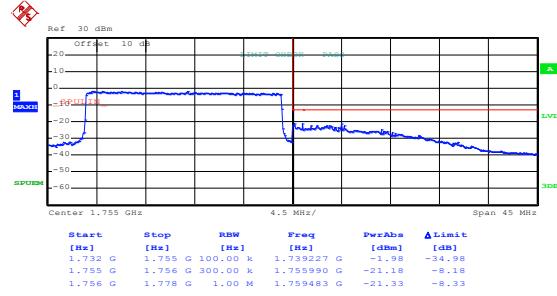
Highest channel

16QAM & RB Size 100



Date: 16.AUG.2019 09:43:08

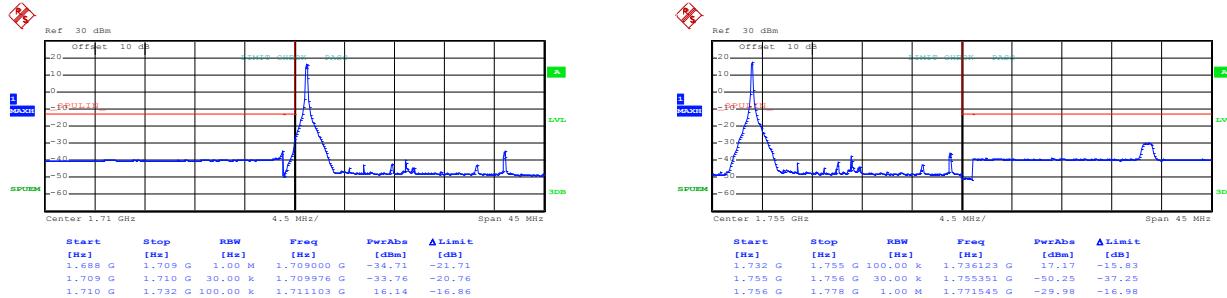
Lowest channel



Date: 16.AUG.2019 09:44:28

Highest channel

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



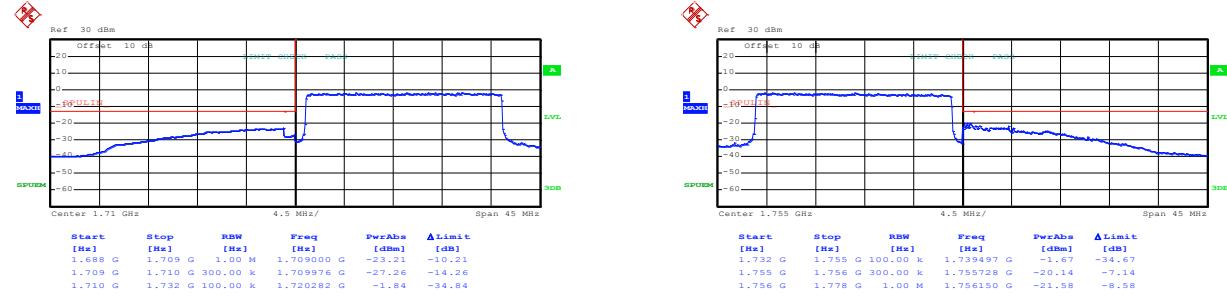
Date: 16.AUG.2019 09:43:27

Date: 16.AUG.2019 09:43:56

Lowest channel

Highest channel

QPSK & RB Size 100



Date: 16.AUG.2019 09:43:03

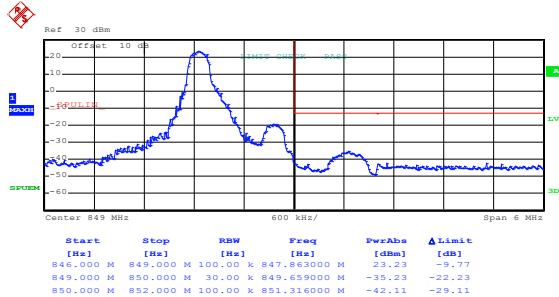
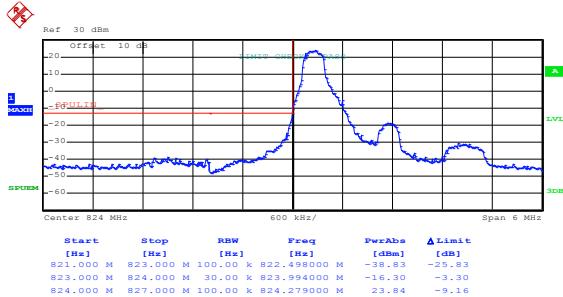
Date: 16.AUG.2019 09:44:22

Lowest channel

Highest channel

LTE Band 5 part:

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



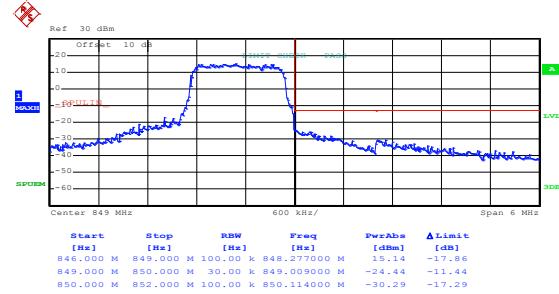
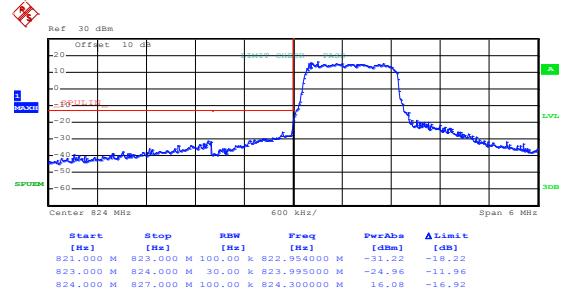
Date: 16.AUG.2019 09:45:46

Date: 16.AUG.2019 09:46:52

Lowest channel

Highest channel

16QAM & RB Size 6



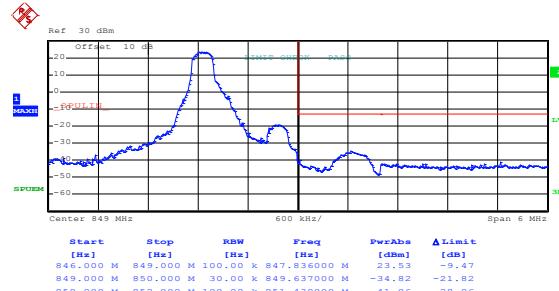
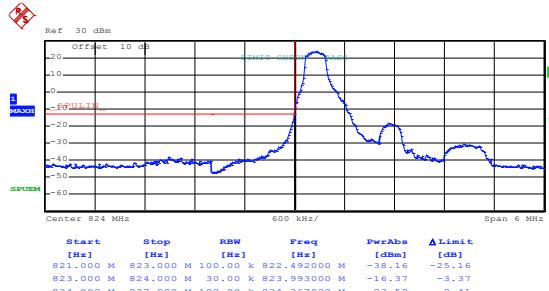
Date: 16.AUG.2019 09:46:03

Date: 16.AUG.2019 09:46:34

Lowest channel

Highest channel

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



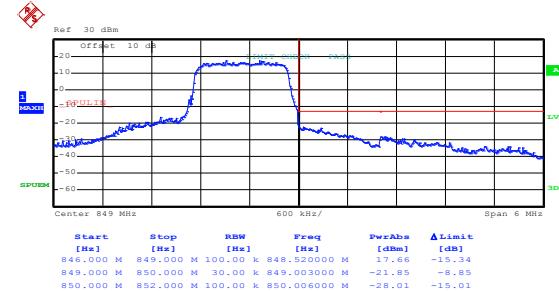
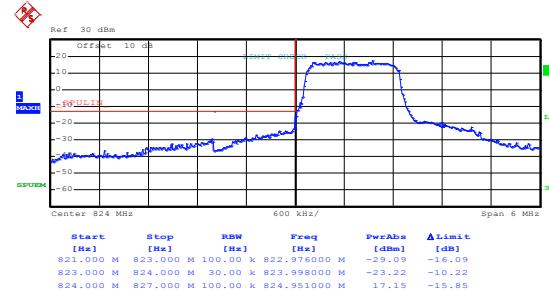
Date: 16.AUG.2019 09:45:40

Date: 16.AUG.2019 09:46:47

Lowest channel

Highest channel

QPSK & RB Size 6



Date: 16.AUG.2019 09:45:57

Date: 16.AUG.2019 09:46:27

Lowest channel

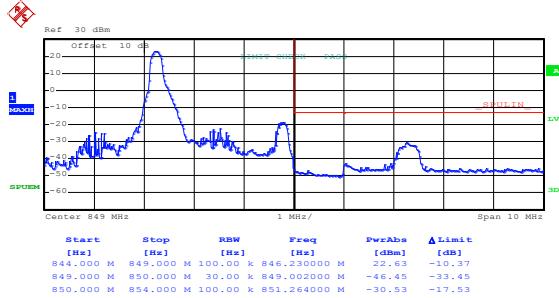
Highest channel

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



Date: 16.AUG.2019 09:49:07

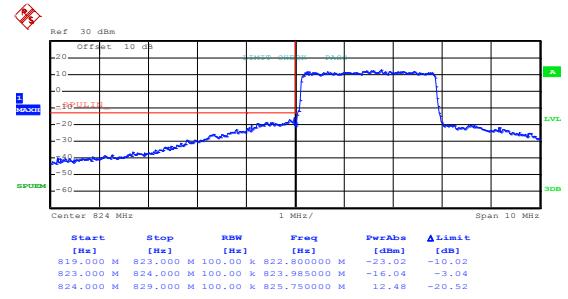
Lowest channel



Date: 16.AUG.2019 09:47:34

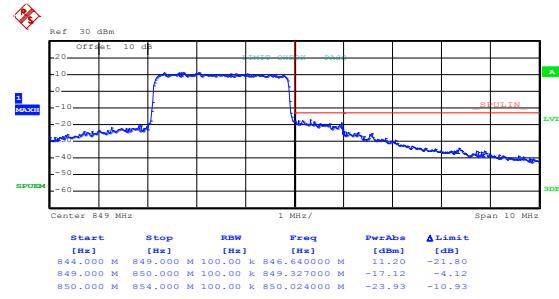
Highest channel

16QAM & RB Size 15



Date: 16.AUG.2019 09:48:45

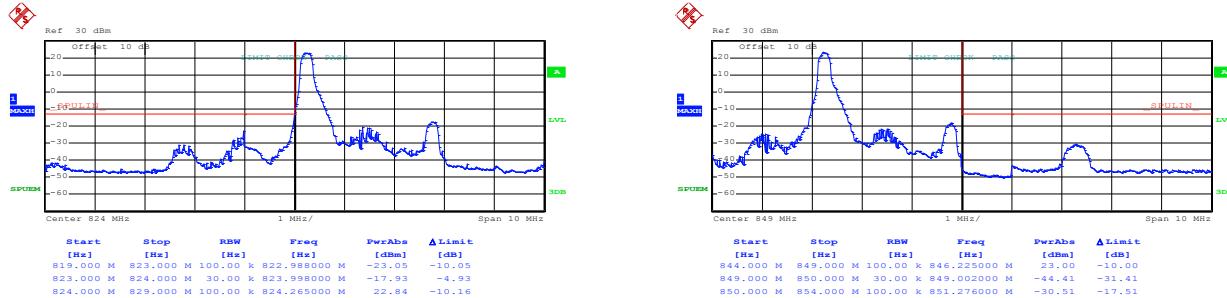
Lowest channel



Date: 16.AUG.2019 09:48:01

Highest channel

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



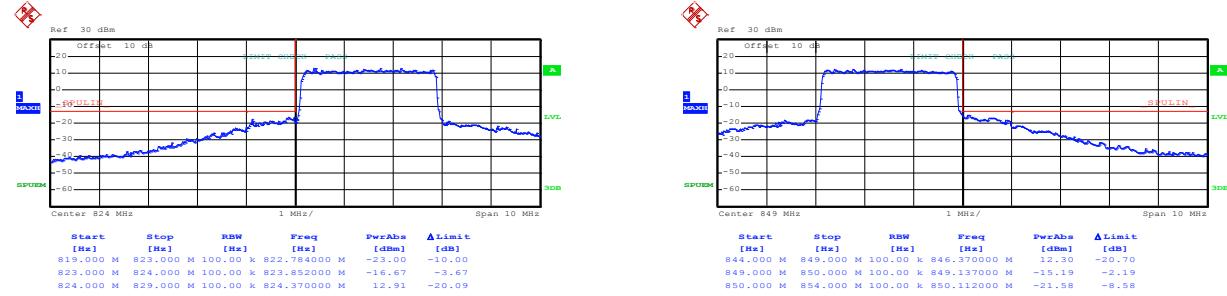
Date: 16.AUG.2019 09:49:01

Lowest channel

Date: 16.AUG.2019 09:47:28

Highest channel

QPSK & RB Size 15



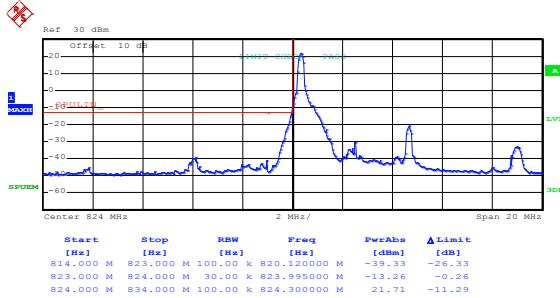
Date: 16.AUG.2019 09:48:37

Lowest channel

Date: 16.AUG.2019 09:47:54

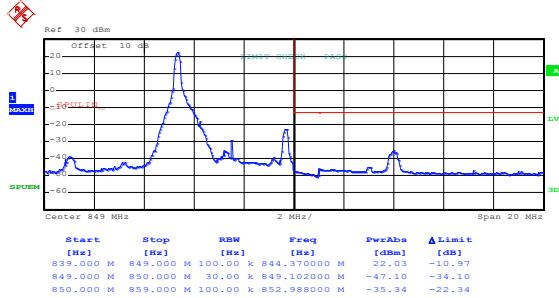
Highest channel

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



Date: 16.AUG.2019 09:49:48

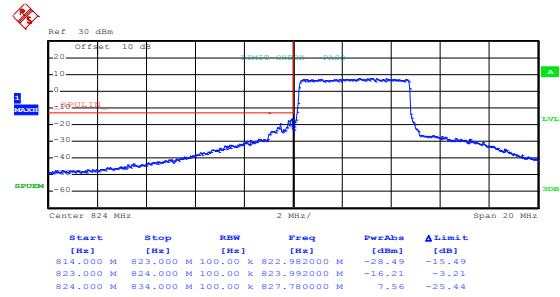
Lowest channel



Date: 16.AUG.2019 09:51:16

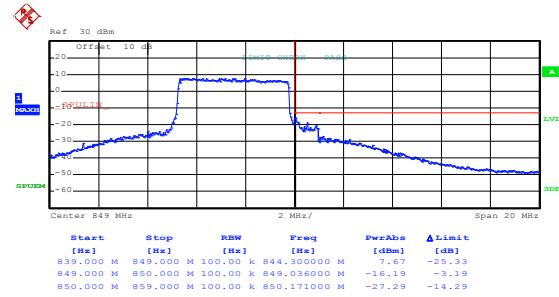
Highest channel

16QAM & RB Size 25



Date: 16.AUG.2019 09:50:17

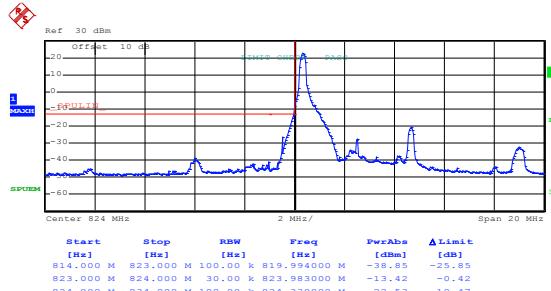
Lowest channel



Date: 16.AUG.2019 09:50:44

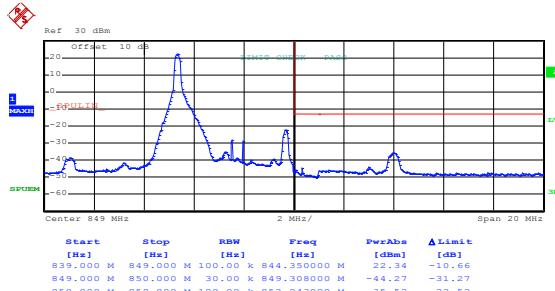
Highest channel

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



Date: 16.AUG.2019 09:49:43

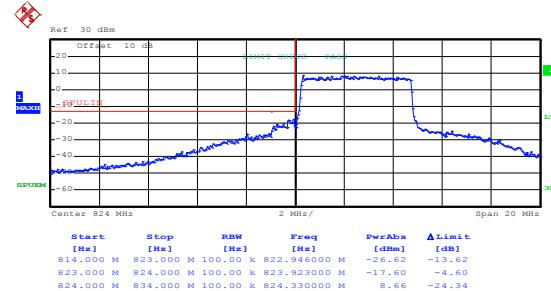
Lowest channel



Date: 16.AUG.2019 09:51:10

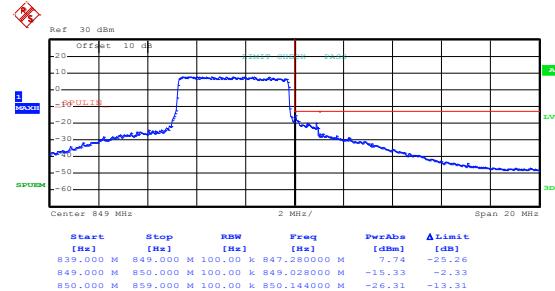
Highest channel

QPSK & RB Size 25



Date: 16.AUG.2019 10:21:17

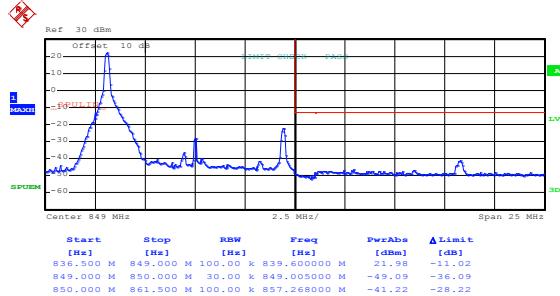
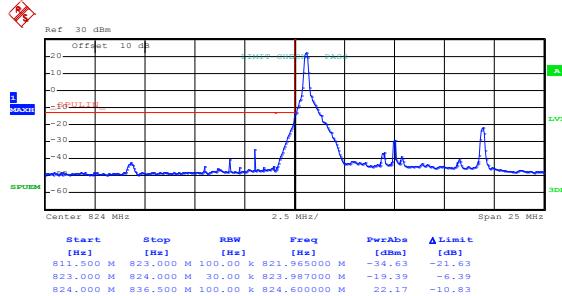
Lowest channel



Date: 16.AUG.2019 09:50:52

Highest channel

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



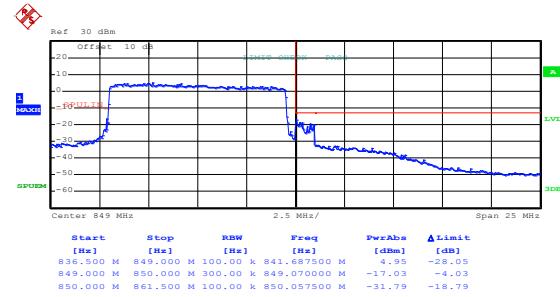
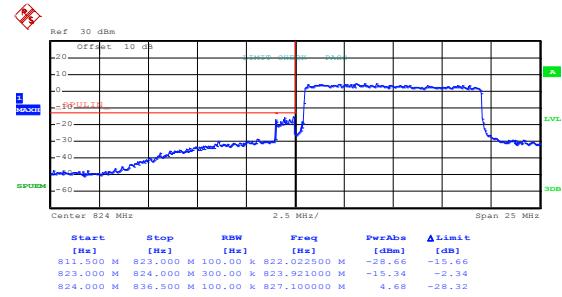
Date: 16.AUG.2019 09:53:56

Date: 16.AUG.2019 09:52:01

Lowest channel

Highest channel

16QAM & RB Size 50



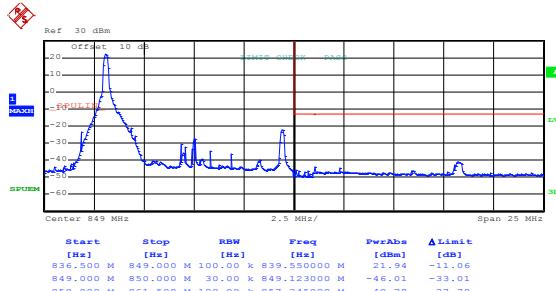
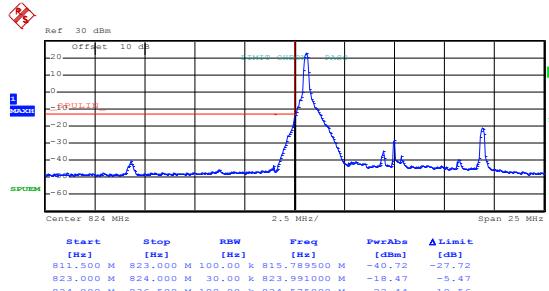
Date: 16.AUG.2019 09:53:28

Date: 16.AUG.2019 09:52:39

Lowest channel

Highest channel

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



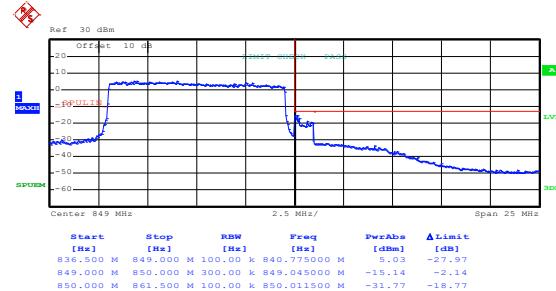
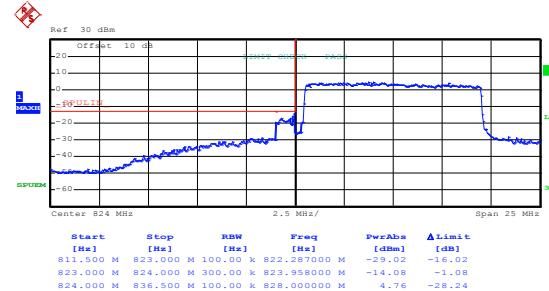
Date: 16.AUG.2019 09:53:50

Lowest channel

Date: 16.AUG.2019 09:51:56

Highest channel

QPSK & RB Size 50



Date: 16.AUG.2019 09:53:16

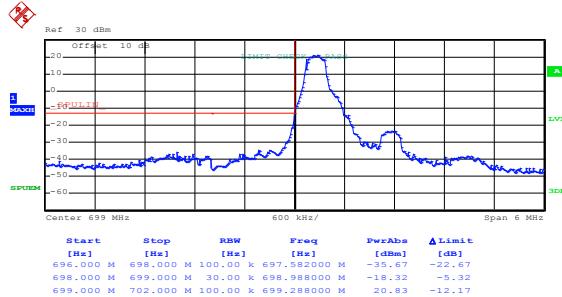
Lowest channel

Date: 16.AUG.2019 09:52:33

Highest channel

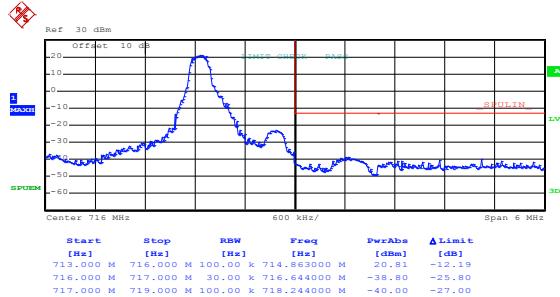
LTE band 12 part:

LTE Band 12, BW: 1.4MHz
16QAM & RB Size 1



Date: 16.AUG.2019 09:55:42

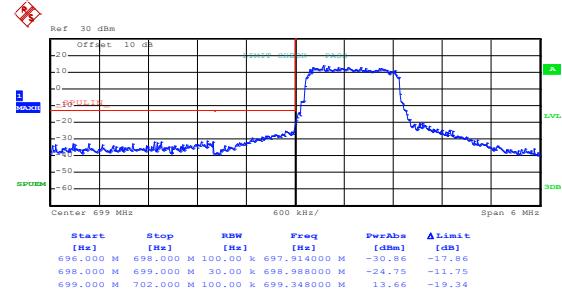
Lowest channel



Date: 16.AUG.2019 09:56:41

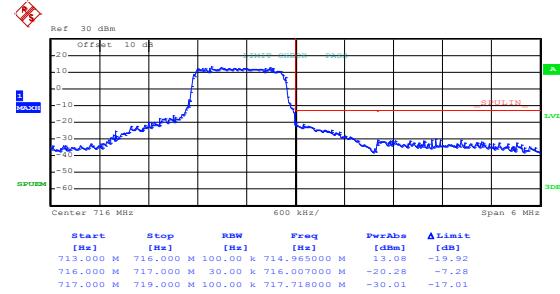
Highest channel

16QAM & RB Size 6



Date: 16.AUG.2019 09:55:58

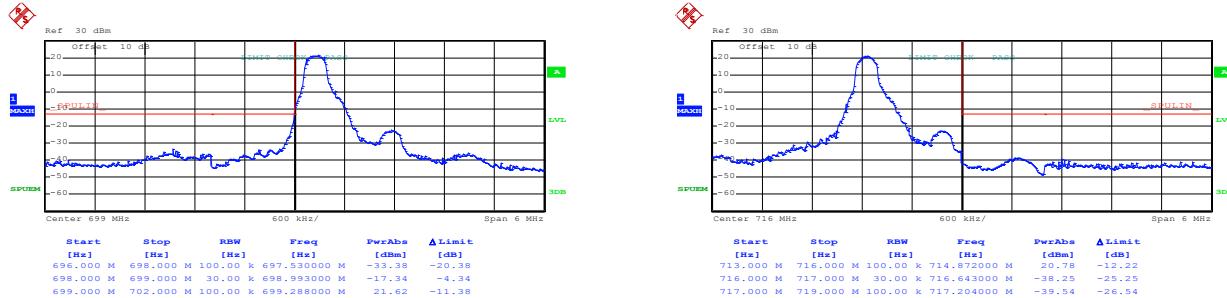
Lowest channel



Date: 16.AUG.2019 09:56:26

Highest channel

**LTE Band 12, BW: 1.4MHz
QPSK & RB Size 1**



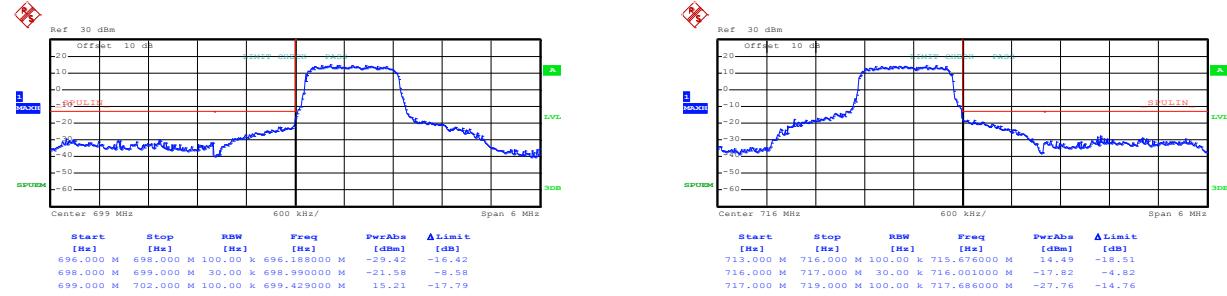
Date: 16.AUG.2019 09:55:36

Date: 16.AUG.2019 09:56:36

Lowest channel

Highest channel

QPSK & RB Size 6



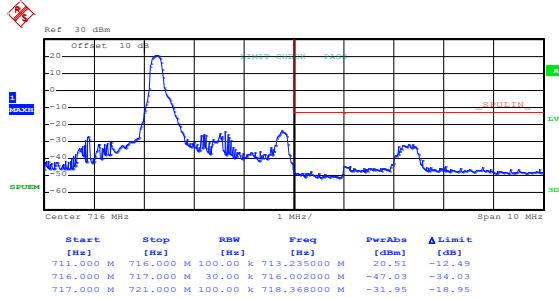
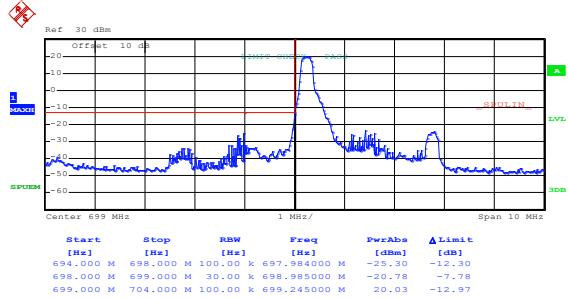
Date: 16.AUG.2019 09:55:52

Date: 16.AUG.2019 09:56:20

Lowest channel

Highest channel

LTE Band 12, BW: 3MHz
16QAM & RB Size 1



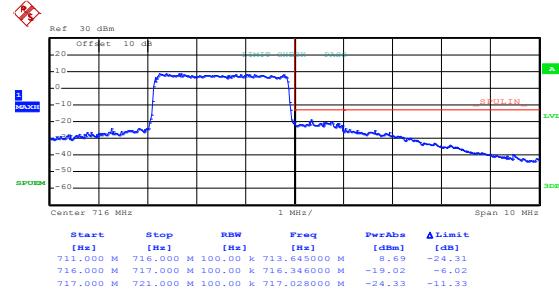
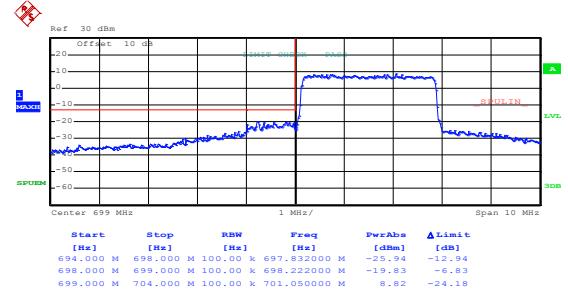
Date: 16.AUG.2019 09:59:11

Date: 16.AUG.2019 09:57:25

Lowest channel

Highest channel

16QAM & RB Size 15



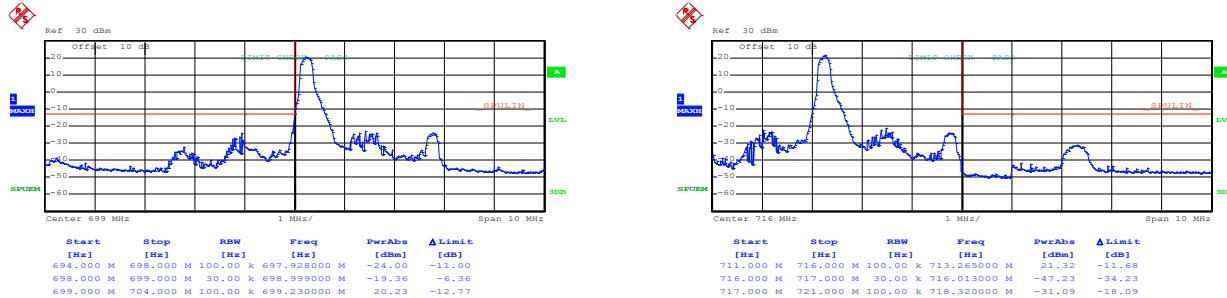
Date: 16.AUG.2019 09:58:49

Date: 16.AUG.2019 09:59:56

Lowest channel

Highest channel

**LTE Band 12, BW: 3MHz
QPSK & RB Size 1**



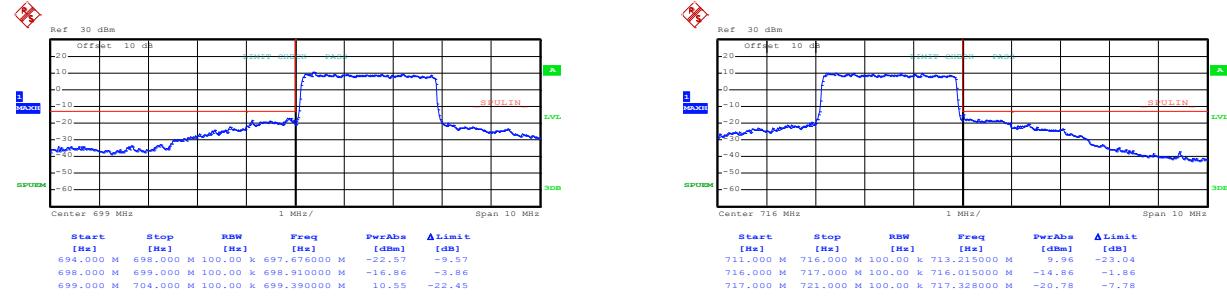
Date: 16.AUG.2019 09:59:06

Date: 16.AUG.2019 09:57:20

Lowest channel

Highest channel

QPSK & RB Size 15



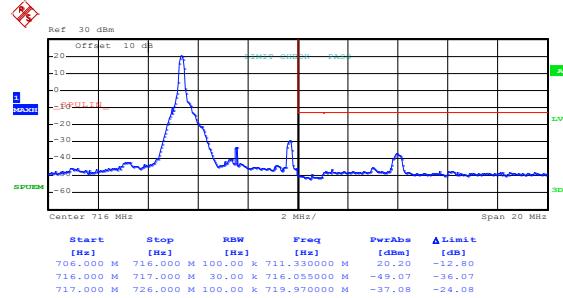
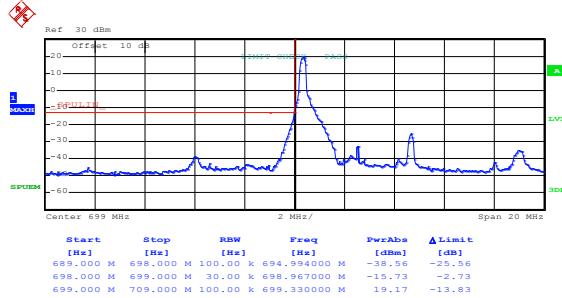
Date: 16.AUG.2019 09:58:41

Date: 16.AUG.2019 09:59:46

Lowest channel

Highest channel

LTE Band 12, BW: 5MHz
16QAM & RB Size 1



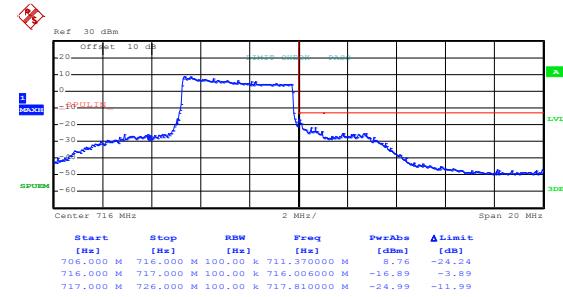
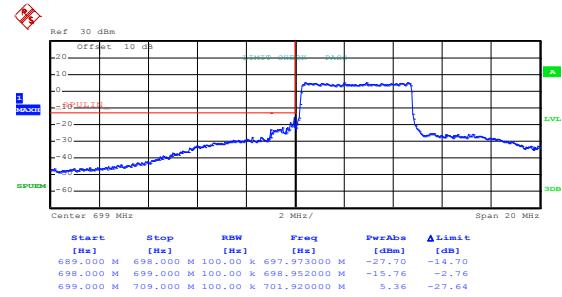
Date: 16.AUG.2019 10:01:42

Date: 16.AUG.2019 10:01:10

Lowest channel

Highest channel

16QAM & RB Size 25



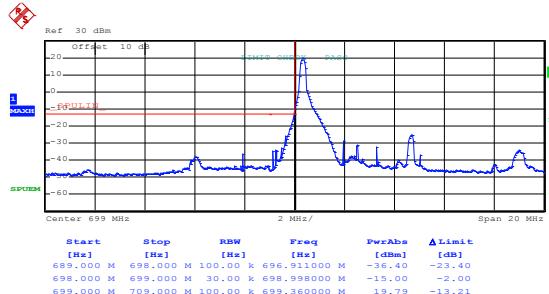
Date: 16.AUG.2019 10:02:11

Date: 16.AUG.2019 10:00:48

Lowest channel

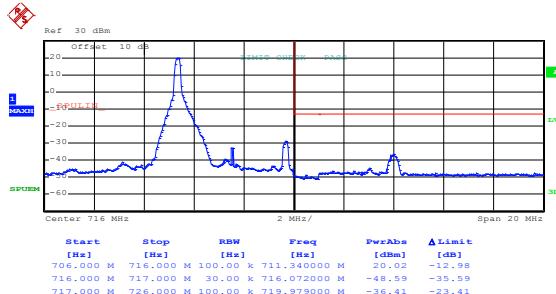
Highest channel

LTE Band 12, BW: 5MHz
QPSK & RB Size 1



Date: 16.AUG.2019 10:01:36

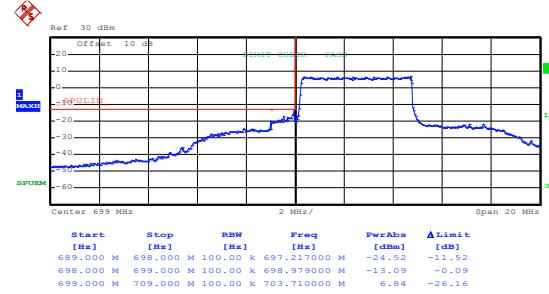
Lowest channel



Date: 16.AUG.2019 10:01:06

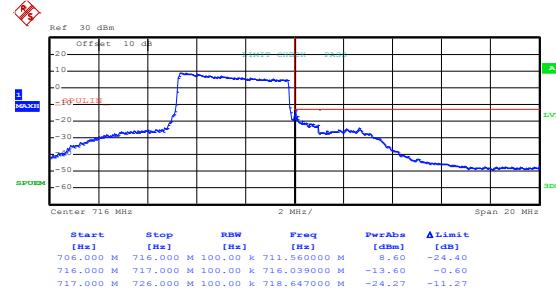
Highest channel

QPSK & RB Size 25



Date: 16.AUG.2019 10:02:04

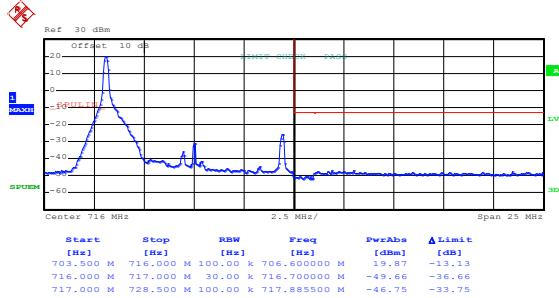
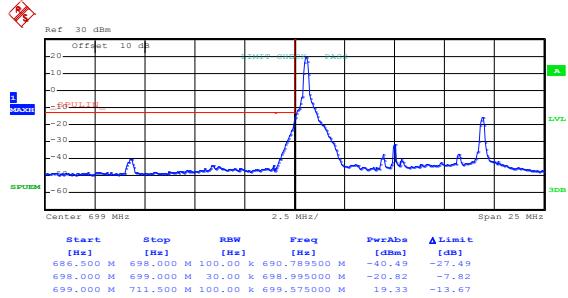
Lowest channel



Date: 16.AUG.2019 10:00:44

Highest channel

LTE Band 12, BW: 10MHz
16QAM & RB Size 1



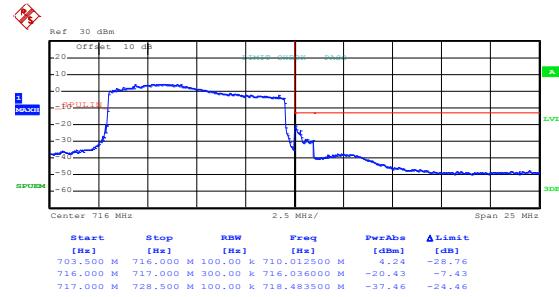
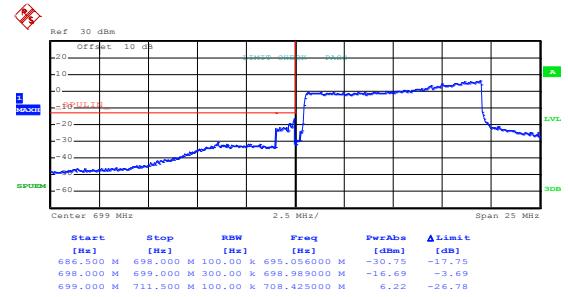
Date: 16.AUG.2019 10:03:11

Date: 16.AUG.2019 10:04:46

Lowest channel

Highest channel

16QAM & RB Size 50



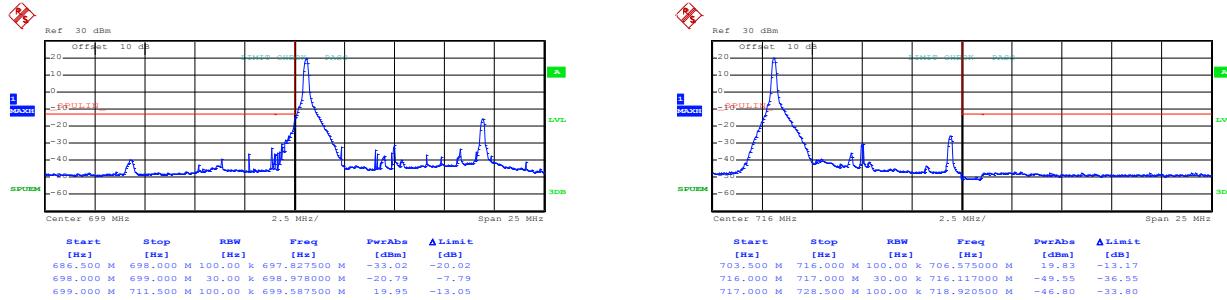
Date: 16.AUG.2019 10:03:36

Date: 16.AUG.2019 10:04:25

Lowest channel

Highest channel

LTE Band 12, BW: 10MHz
QPSK & RB Size 1



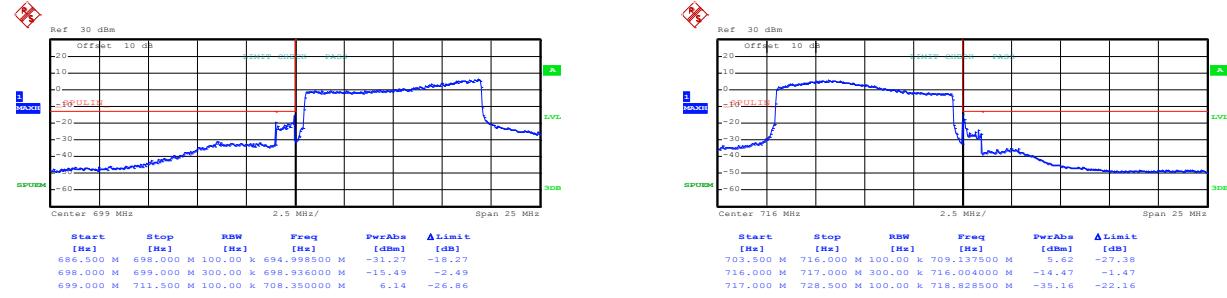
Date: 16.AUG.2019 10:03:04

Lowest channel

Date: 16.AUG.2019 10:04:40

Highest channel

QPSK & RB Size 50



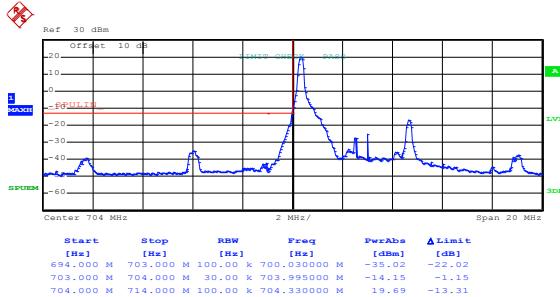
Date: 16.AUG.2019 10:03:47

Lowest channel

Date: 16.AUG.2019 10:04:16

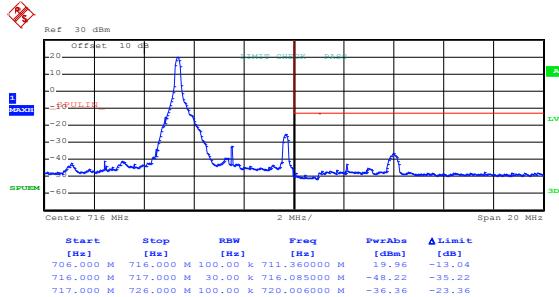
Highest channel

LTE Band 17 part:

LTE Band 17, BW: 5MHz
16QAM & RB Size 1

Date: 16.AUG.2019 10:09:11

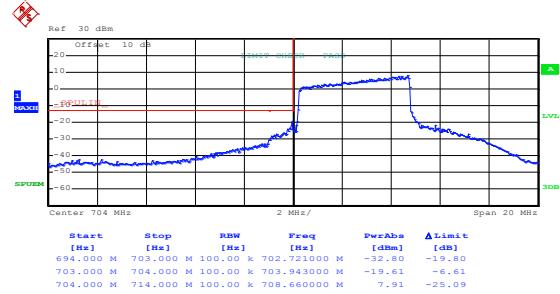
Lowest channel



Date: 16.AUG.2019 10:09:37

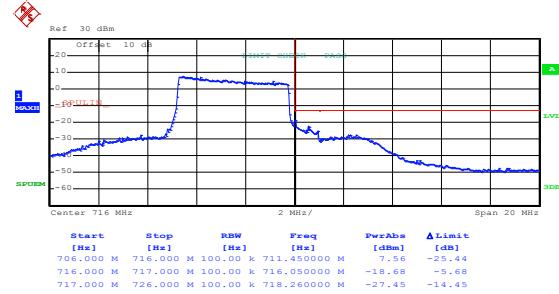
Highest channel

16QAM & RB Size 25



Date: 16.AUG.2019 10:08:42

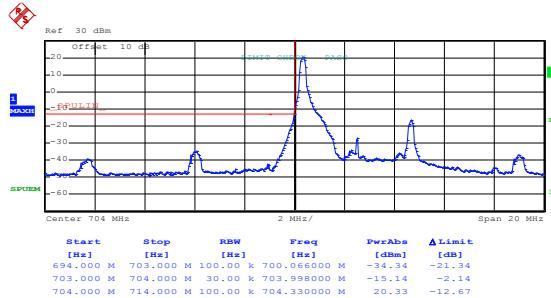
Lowest channel



Date: 16.AUG.2019 10:10:06

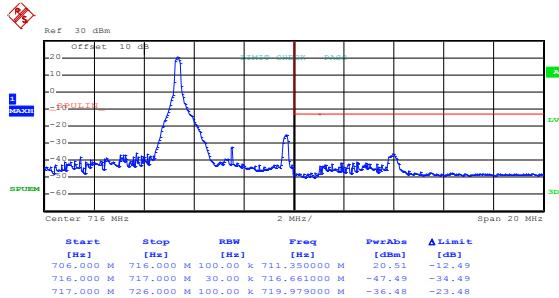
Highest channel

LTE Band 17, BW: 5MHz
QPSK & RB Size 1



Date: 16.AUG.2019 10:09:03

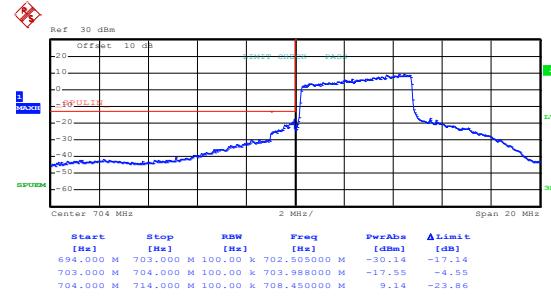
Lowest channel



Date: 16.AUG.2019 10:09:31

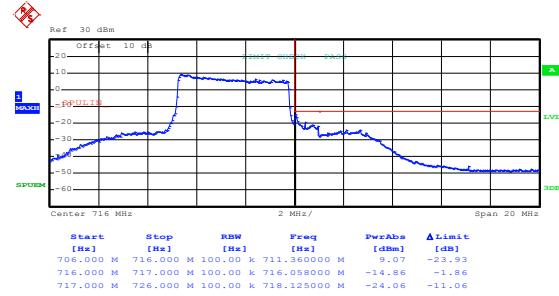
Highest channel

QPSK & RB Size 25



Date: 16.AUG.2019 10:08:17

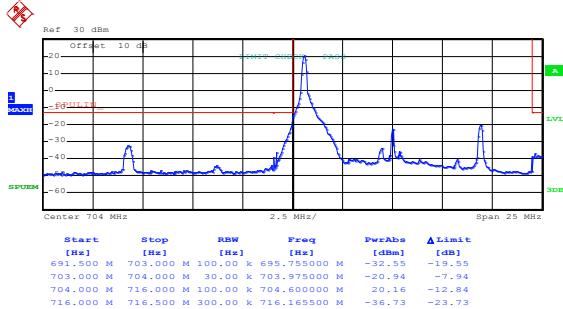
Lowest channel



Date: 16.AUG.2019 10:09:59

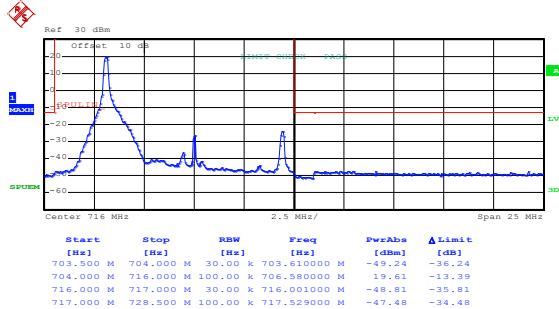
Highest channel

LTE Band 17, BW: 10MHz
16QAM & RB Size 1



Date: 16.AUG.2019 10:14:39

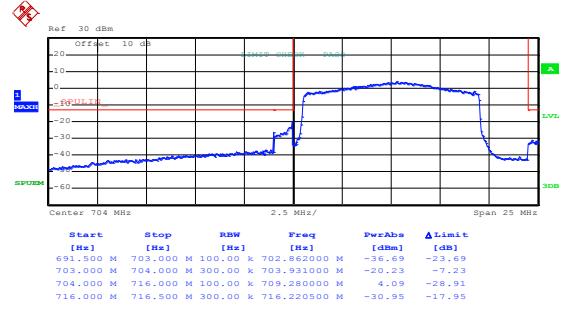
Lowest channel



Date: 16.AUG.2019 10:12:48

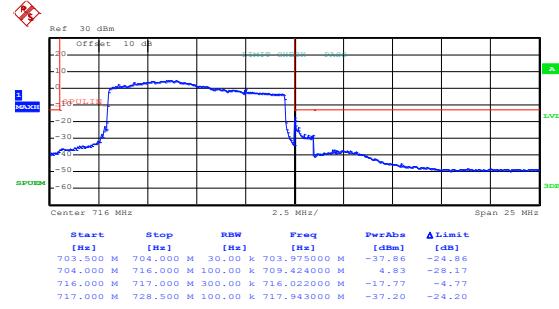
Highest channel

16QAM & RB Size 50



Date: 16.AUG.2019 10:14:14

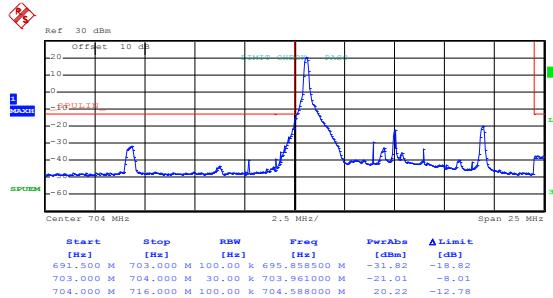
Lowest channel



Date: 16.AUG.2019 10:13:19

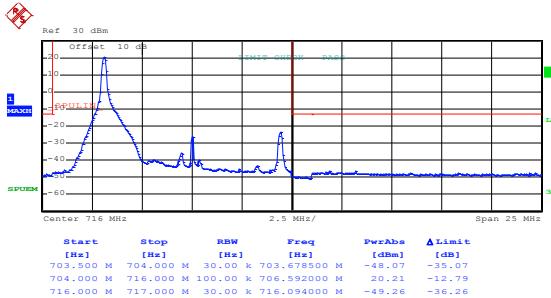
Highest channel

LTE Band 17, BW: 10MHz
QPSK & RB Size 1



Date: 16.AUG.2019 10:14:33

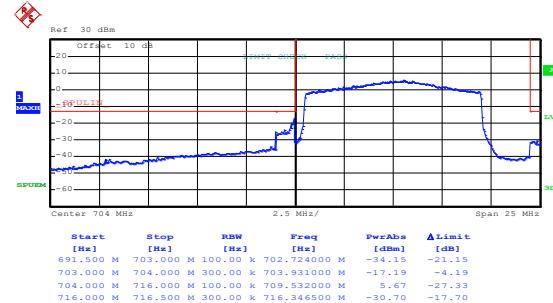
Lowest channel



Date: 16.AUG.2019 10:12:42

Highest channel

QPSK & RB Size 50



Date: 16.AUG.2019 10:14:06

Lowest channel



Date: 16.AUG.2019 10:13:10

Highest channel

6.5 Field strength of spurious radiation measurement

Test Requirement:	Part 22.917(b), Part 24.238 (a), Part 27.53(g), Part 27.53(m), Part 27.53(h)
Test Method:	ANSI/TIA-603-D 2010
Limit:	LTE Band 2 & 4 & 5 & 12 & 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 $43 + 10 \log_{10}(P)$ dB (-13 dBm).
Test setup:	<p>Below 1GHz</p> <p>Above 1GHz</p>
Test Procedure:	<ol style="list-style-type: none"> 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. 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. 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 was determined using the substitution method. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.9 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)		
Lowest Channel				
3701.40	Vertical	-35.64	-13.00	Pass
5552.10	V	-34.16		
7402.00	V	-40.25		
3701.40	Horizontal	-28.79		
5552.10	H	-39.43		
7402.00	H	-29.77		
Middle Channel				
3760.00	Vertical	-36.63	-13.00	Pass
5640.00	V	-33.13		
7520.00	V	-39.67		
3760.00	Horizontal	-27.46		
5640.00	H	-40.13		
7520.00	H	-28.65		
Highest Channel				
3816.60	Vertical	-34.13	-13.00	Pass
5724.90	V	-33.36		
7633.20	V	-39.52		
3816.60	Horizontal	-27.45		
5724.90	H	-40.12		
7633.20	H	-28.79		

Note:

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.

LTE Band 2, WB: 3MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3703.00	Vertical	-31.24	-13.00	Pass
5554.50	V	-34.56		
7406.00	V	-40.69		
3703.00	Horizontal	-26.56		
5554.50	H	-40.22		
7406.00	H	-27.48		
Middle Channel				
3760.00	Vertical	-31.36	-13.00	Pass
5640.00	V	-32.56		
7520.00	V	-41.25		
3760.00	Horizontal	-28.63		
5640.00	H	-39.76		
7520.00	H	-25.16		
Highest Channel				
3817.00	Vertical	-33.32	-13.00	Pass
5725.50	V	-34.15		
7634.00	V	-40.56		
3817.00	Horizontal	-26.76		
5725.50	H	-39.49		
7634.00	H	-27.44		

Note:

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.

LTE Band 2, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3705.00	Vertical	-35.52	-13.00	Pass
5557.50	V	-33.31		
7410.00	V	-40.25		
3705.00	Horizontal	-27.49		
5557.50	H	-40.16		
7410.00	H	-29.78		
Middle Channel				
3760.00	Vertical	-35.53	-13.00	Pass
5640.00	V	-34.16		
7520.00	V	-40.25		
3760.00	Horizontal	-26.63		
5640.00	H	-39.76		
7520.00	H	-27.45		
Highest Channel				
3815.00	Vertical	-33.23	-13.00	Pass
5722.50	V	-34.61		
7630.00	V	-40.56		
3815.00	Horizontal	-28.56		
5722.50	H	-39.45		
7630.00	H	-27.49		

Note:

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.

LTE Band 2, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3710.00	Vertical	-32.23	-13.00	Pass
5565.00	V	-33.63		
7420.00	V	-39.15		
3710.00	Horizontal	-26.69		
5565.00	H	-39.75		
7420.00	H	-26.44		
Middle Channel				
3760.00	Vertical	-32.25	-13.00	Pass
5640.00	V	-33.46		
7520.00	V	-41.75		
3760.00	Horizontal	-27.59		
5640.00	H	-40.15		
7520.00	H	-26.63		
Highest Channel				
3810.00	Vertical	-32.24	-13.00	Pass
5715.00	V	-34.15		
7620.00	V	-39.75		
3810.00	Horizontal	-27.46		
5715.00	H	-40.22		
7620.00	H	-28.85		

Note:

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.

LTE Band 2, WB: 15MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3715.00	Vertical	-34.63	-13.00	Pass
5572.50	V	-33.23		
7430.00	V	-39.56		
3715.00	Horizontal	-26.45		
5572.50	H	-39.11		
7430.00	H	-28.75		
Middle Channel				
3760.00	Vertical	-34.12	-13.00	Pass
5640.00	V	-33.26		
7520.00	V	-41.56		
3760.00	Horizontal	-27.46		
5640.00	H	-40.19		
7520.00	H	-26.55		
Highest Channel				
3805.00	Vertical	-32.26	-13.00	Pass
5707.50	V	-33.46		
7610.00	V	-39.75		
3805.00	Horizontal	-27.45		
5707.50	H	-40.10		
7610.00	H	-26.59		

Note:

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.

LTE Band 2, WB: 20MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3720.00	Vertical	-33.23	-13.00	Pass
5580.00	V	-34.16		
7440.00	V	-40.36		
3720.00	Horizontal	-27.64		
5580.00	H	-40.55		
7440.00	H	-27.49		
Middle Channel				
3760.00	Vertical	-33.23	-13.00	Pass
5640.00	V	-34.15		
7520.00	V	-42.56		
3760.00	Horizontal	-26.63		
5640.00	H	-39.19		
7520.00	H	-25.52		
Highest Channel				
3800.00	Vertical	-31.43	-13.00	Pass
5700.00	V	-33.56		
7600.00	V	-40.74		
3800.00	Horizontal	-26.63		
5700.00	H	-39.56		
7600.00	H	-27.48		

Note:

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.

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)		
Lowest Channel				
3421.40	Vertical	-46.38	-13.00	Pass
5132.10	V	-34.47		
6842.80	V	-36.43		
3421.40	Horizontal	-42.22		
5132.10	H	-23.95		
6842.80	H	-27.00		
Middle Channel				
3465.00	Vertical	-45.25	-13.00	Pass
5197.50	V	-33.23		
6930.00	V	-35.67		
3465.00	Horizontal	-41.42		
5197.50	H	-22.61		
6930.00	H	-26.79		
Highest Channel				
3508.60	Vertical	-45.53	-13.00	Pass
5262.90	V	-33.23		
7017.20	V	-35.16		
3508.60	Horizontal	-41.75		
5262.90	H	-23.66		
7017.20	H	-26.78		

Note:

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.

LTE Band 4, WB: 3MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3423.00	Vertical	-46.33	-13.00	Pass
5134.50	V	-31.46		
6846.00	V	-34.52		
3423.00	Horizontal	-42.61		
5134.50	H	-25.76		
6846.00	H	-26.49		
Middle Channel				
3465.00	Vertical	-41.75	-13.00	Pass
5197.50	V	-32.26		
6930.00	V	-35.61		
3465.00	Horizontal	-41.32		
5197.50	H	-26.63		
6930.00	H	-24.76		
Highest Channel				
3507.00	Vertical	-45.52	-13.00	Pass
5260.50	V	-30.34		
7014.00	V	-34.15		
3507.00	Horizontal	-22.66		
5260.50	H	-23.63		
7014.00	H	-29.78		

Note:

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.

LTE Band 4, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3425.00	Vertical	-45.54	-13.00	Pass
5137.50	V	-33.13		
6850.00	V	-35.67		
3425.00	Horizontal	-41.52		
5137.50	H	-23.44		
6850.00	H	-26.79		
Middle Channel				
3465.00	Vertical	-44.55	-13.00	Pass
5197.50	V	-32.56		
6930.00	V	-34.16		
3465.00	Horizontal	-42.56		
5197.50	H	-23.69		
6930.00	H	-25.75		
Highest Channel				
3505.00	Vertical	-46.12	-13.00	Pass
5257.50	V	-33.75		
7010.00	V	-34.61		
3505.00	Horizontal	-42.73		
5257.50	H	-23.97		
7010.00	H	-25.66		

Note:

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.

LTE Band 4, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3430.00	Vertical	-46.36	-13.00	Pass
5145.00	V	-32.23		
6860.00	V	-34.63		
3430.00	Horizontal	-43.25		
5145.00	H	-26.96		
6860.00	H	-25.13		
Middle Channel				
3465.00	Vertical	-42.33	-13.00	Pass
5197.50	V	-31.46		
6930.00	V	-36.63		
3465.00	Horizontal	-42.53		
5197.50	H	-21.47		
6930.00	H	-25.76		
Highest Channel				
3500.00	Vertical	-46.36	-13.00	Pass
5250.00	V	-31.46		
7000.00	V	-35.56		
3500.00	Horizontal	-42.79		
5250.00	H	-22.55		
7000.00	H	-26.49		

Note:

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.

LTE Band 4, WB: 15MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3435.00	Vertical	-46.31	-13.00	Pass
5152.50	V	-32.53		
6870.00	V	-34.16		
3435.00	Horizontal	-42.21		
5152.50	H	-24.56		
6870.00	H	-27.45		
Middle Channel				
3465.00	Vertical	-46.63	-13.00	Pass
5197.50	V	-31.36		
6930.00	V	-33.53		
3465.00	Horizontal	-42.79		
5197.50	H	-23.16		
6930.00	H	-26.79		
Highest Channel				
3495.00	Vertical	-46.55	-13.00	Pass
5242.50	V	-34.53		
6990.00	V	-36.63		
3495.00	Horizontal	-41.56		
5242.50	H	-23.77		
6990.00	H	-25.49		

Note:

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.

LTE Band 4, WB: 20MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3440.00	Vertical	-45.25	-13.00	Pass
5160.00	V	-31.43		
6880.00	V	-33.23		
3440.00	Horizontal	-42.69		
5160.00	H	-25.53		
6880.00	H	-26.77		
Middle Channel				
3465.00	Vertical	-42.54	-13.00	Pass
5197.50	V	-32.23		
6930.00	V	-34.16		
3465.00	Horizontal	-41.75		
5197.50	H	-22.55		
6930.00	H	-26.79		
Highest Channel				
3490.00	Vertical	-45.12	-13.00	Pass
5235.00	V	-32.47		
6980.00	V	-36.53		
3490.00	Horizontal	-42.52		
5235.00	H	-23.15		
6980.00	H	-25.91		

Note:

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.

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)		
Lowest Channel				
1649.40	Vertical	-49.52	-13.00	Pass
2474.10	V	-52.36		
3298.80	V	-43.16		
1649.40	Horizontal	-45.18		
2474.10	H	-52.53		
3298.80	H	-42.95		
Middle Channel				
1673.00	Vertical	-48.32	-13.00	Pass
2509.50	V	-52.43		
3346.00	V	-43.69		
1673.00	Horizontal	-44.98		
2509.50	H	-46.36		
3346.00	H	-41.73		
Highest Channel				
1696.60	Vertical	-48.63	-13.00	Pass
2544.90	V	-51.36		
3393.20	V	-42.56		
1696.60	Horizontal	-44.19		
2544.90	H	-53.33		
3393.20	H	-41.79		

Note:

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.

LTE Band 5, WB: 3MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
1651.00	Vertical	-50.25	-13.00	Pass
2476.50	V	-51.43		
3302.00	V	-42.63		
1651.00	Horizontal	-44.16		
2476.50	H	-52.73		
3302.00	H	-41.98		
Middle Channel				
1673.00	Vertical	-45.23	-13.00	Pass
2509.50	V	-52.22		
3346.00	V	-43.61		
1673.00	Horizontal	-46.76		
2509.50	H	-42.53		
3346.00	H	-41.77		
Highest Channel				
1695.00	Vertical	-46.23	-13.00	Pass
2542.50	V	-53.23		
3390.00	V	-41.25		
1695.00	Horizontal	-45.55		
2542.50	H	-52.79		
3390.00	H	-43.16		

Note:

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.

LTE Band 5, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
1653.00	Vertical	-48.25	-13.00	Pass
2479.50	V	-51.36		
3306.00	V	-42.56		
1653.00	Horizontal	-46.69		
2479.50	H	-52.33		
3306.00	H	-41.75		
Middle Channel				
1673.00	Vertical	-47.16	-13.00	Pass
2509.50	V	-52.85		
3346.00	V	-42.36		
1673.00	Horizontal	-45.19		
2509.50	H	-46.33		
3346.00	H	-42.75		
Highest Channel				
1693.00	Vertical	-48.56	-13.00	Pass
2539.50	V	-52.32		
3386.00	V	-43.16		
1693.00	Horizontal	-45.72		
2539.50	H	-52.24		
3386.00	H	-41.77		

Note:

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.

LTE Band 5, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
1658.00	Vertical	-49.36	-13.00	Pass
2487.00	V	-52.23		
3316.00	V	-41.55		
1658.00	Horizontal	-45.25		
2487.00	H	-51.79		
3316.00	H	-42.33		
Middle Channel				
1673.00	Vertical	-46.36	-13.00	Pass
2509.50	V	-51.42		
3346.00	V	-42.16		
1673.00	Horizontal	-46.32		
2509.50	H	-41.75		
3346.00	H	-42.33		
Highest Channel				
1688.00	Vertical	-47.46	-13.00	Pass
2532.00	V	-52.33		
3376.00	V	-42.16		
1688.00	Horizontal	-46.36		
2532.00	H	-51.37		
3376.00	H	-42.87		

Note:

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.

LTE Band 12 part:

LTE Band 12, WB: 1.4MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
1399.40	Vertical	-49.51	-13.00	Pass
2099.10	V	-54.15		
2798.80	V	-52.11		
1399.40	Horizontal	-48.17		
2099.10	H	-56.65		
2798.80	H	-52.81		
Middle Channel				
1415.00	Vertical	-48.63	-13.00	Pass
2122.50	V	-53.63		
2830.00	V	-52.56		
1415.00	Horizontal	-47.58		
2122.50	H	-54.12		
2830.00	H	-51.76		
Highest Channel				
1430.60	Vertical	-47.63	-13.00	Pass
2145.90	V	-52.45		
2861.20	V	-51.79		
1430.60	Horizontal	-46.65		
2145.90	H	-53.32		
2861.20	H	-52.75		

Note:

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.

LTE Band 12, WB: 3MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
1401.00	Vertical	-46.36	-13.00	Pass
2101.50	V	-51.30		
2802.00	V	-49.63		
1401.00	Horizontal	-45.21		
2101.50	H	-53.32		
2802.00	H	-49.76		
Middle Channel				
1415.00	Vertical	-45.22	-13.00	Pass
2122.50	V	-52.13		
2830.00	V	-46.36		
1415.00	Horizontal	-51.79		
2122.50	H	-51.49		
2830.00	H	-48.66		
Highest Channel				
1429.00	Vertical	-45.22	-13.00	Pass
2143.50	V	-51.36		
2858.00	V	-46.31		
1429.00	Horizontal	-51.42		
2143.50	H	-52.72		
2858.00	H	-51.49		

Note:

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.

LTE Band 12, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
1403.00	Vertical	-48.56	-13.00	Pass
2104.50	V	-53.32		
2806.00	V	-51.42		
1403.00	Horizontal	-47.19		
2104.50	H	-55.56		
2806.00	H	-51.46		
Middle Channel				
1415.00	Vertical	-46.32	-13.00	Pass
2122.50	V	-52.29		
2830.00	V	-46.61		
1415.00	Horizontal	-45.75		
2122.50	H	-53.23		
2830.00	H	-51.76		
Highest Channel				
1427.00	Vertical	-46.32	-13.00	Pass
2410.50	V	-52.75		
2854.00	V	-46.32		
1427.00	Horizontal	-52.46		
2410.50	H	-53.89		
2854.00	H	-51.73		

Note:

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.

LTE Band 12, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
1408.00	Vertical	-47.32	-13.00	Pass
2112.00	V	-52.23		
2816.00	V	-52.63		
1408.00	Horizontal	-46.31		
2112.00	H	-54.75		
2816.00	H	-52.13		
Middle Channel				
1415.00	Vertical	-45.52	-13.00	Pass
2122.50	V	-51.34		
2830.00	V	-45.67		
1415.00	Horizontal	-44.30		
2122.50	H	-52.13		
2830.00	H	-49.78		
Highest Channel				
1422.00	Vertical	-45.23	-13.00	Pass
2133.00	V	-51.34		
2844.00	V	-46.55		
1422.00	Horizontal	-51.73		
2133.00	H	-53.69		
2844.00	H	-52.73		

Note:

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.

LTE Band 17 part:

LTE Band 17, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
1413.00	Vertical	-54.66	-13.00	Pass
2119.50	V	-56.79		
2826.00	V	-53.11		
1413.00	Horizontal	-53.32		
2119.50	H	-56.53		
2826.00	H	-52.30		
Middle Channel				
1420.00	Vertical	-53.23	-13.00	Pass
2130.00	V	-54.21		
2840.00	V	-52.63		
1420.00	Horizontal	-54.30		
2130.00	H	-55.76		
2840.00	H	-51.49		
Highest Channel				
1427.00	Vertical	-53.33	-13.00	Pass
2140.50	V	-54.15		
2854.00	V	-52.76		
1427.00	Horizontal	-52.46		
2140.50	H	-57.49		
2854.00	H	-51.44		

Note:

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.

LTE Band 17, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
1418.00	Vertical	-53.36	-13.00	Pass
2127.00	V	-55.72		
2836.00	V	-52.43		
1418.00	Horizontal	-53.69		
2127.00	H	-55.44		
2836.00	H	-51.79		
Middle Channel				
1420.00	Vertical	-52.26	-13.00	Pass
2130.00	V	-54.19		
2840.00	V	-53.63		
1420.00	Horizontal	-55.85		
2130.00	H	-54.12		
2840.00	H	-52.77		
Highest Channel				
1422.00	Vertical	-53.26	-13.00	Pass
2133.00	V	-53.16		
2844.00	V	-52.44		
1422.00	Horizontal	-51.79		
2133.00	H	-52.56		
2844.00	H	-53.79		

Note:

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)
Test Method:	ANSI/TIA-603-D 2010
Limit:	±2.5ppm for band 5 within authorized band for band 2 and 4 and 12 and 17
Test setup:	<pre> graph LR SS[SS] --- SA[SA] SA --- Divider[Divider] Divider --- EUT[EUT] EUT --- PS[Power Source] PS --- EUT chamber[Temperature & Humidity Chamber] chamber --- EUT </pre>
Test procedure:	<ol style="list-style-type: none"> 1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.9 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		
QPSK					
3.70	-30	190	0.101064	within authorized band	Pass
	-20	181	0.096277		
	-10	170	0.090426		
	0	163	0.086702		
	10	152	0.080851		
	20	143	0.076064		
	30	131	0.069681		
	40	118	0.062766		
	50	126	0.067021		
16QAM					
3.70	-30	168	0.089362	within authorized band	Pass
	-20	150	0.079787		
	-10	139	0.073936		
	0	125	0.066489		
	10	113	0.060106		
	20	140	0.074468		
	30	121	0.064362		
	40	132	0.070213		
	50	155	0.082447		

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					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.70	-30	189	0.109091	within authorized band	Pass
	-20	170	0.098124		
	-10	163	0.094084		
	0	155	0.089466		
	10	143	0.082540		
	20	136	0.078499		
	30	124	0.071573		
	40	116	0.066955		
	50	109	0.062915		
16QAM					
3.70	-30	165	0.095238	within authorized band	Pass
	-20	149	0.086003		
	-10	136	0.078499		
	0	127	0.073304		
	10	117	0.067532		
	20	109	0.062915		
	30	101	0.058297		
	40	123	0.070996		
	50	142	0.081962		

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		
QPSK					
3.70	-30	190	0.227137	± 2.5	Pass
	-20	182	0.217573		
	-10	173	0.206814		
	0	160	0.191273		
	10	153	0.182905		
	20	141	0.168559		
	30	135	0.161387		
	40	126	0.150628		
	50	113	0.135087		
	16QAM				
3.70	-30	167	0.199641	± 2.5	Pass
	-20	154	0.184100		
	-10	141	0.168559		
	0	132	0.157800		
	10	121	0.144650		
	20	114	0.136282		
	30	108	0.129109		
	40	127	0.151823		
	50	145	0.173341		

Note: Only the worst case shown in the report.

LTE Band 12 part:

Reference Frequency: LTE Band 12 (10MHz) Middle channel=23095 channel=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.70	-30	187	0.264311	within authorized band	Pass
	-20	176	0.248763		
	-10	165	0.233216		
	0	158	0.223322		
	10	147	0.207774		
	20	139	0.196466		
	30	128	0.180919		
	40	117	0.165371		
	50	109	0.154064		
16QAM					
3.70	-30	162	0.228975	within authorized band	Pass
	-20	153	0.216254		
	-10	145	0.204947		
	0	137	0.193640		
	10	126	0.178092		
	20	117	0.165371		
	30	108	0.152650		
	40	113	0.159717		
	50	130	0.183746		

Note: Only the worst case shown in the report.

LTE Band 17 part:

Reference Frequency: LTE Band 17 (10MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.70	-30	185	0.260563	within authorized band	Pass
	-20	173	0.243662		
	-10	166	0.233803		
	0	157	0.221127		
	10	148	0.208451		
	20	139	0.195775		
	30	120	0.169014		
	40	113	0.159155		
	50	132	0.185915		
16QAM					
3.70	-30	164	0.230986	within authorized band	Pass
	-20	150	0.211268		
	-10	142	0.200000		
	0	136	0.191549		
	10	127	0.178873		
	20	116	0.163380		
	30	108	0.152113		
	40	123	0.173239		
	50	154	0.216901		

Note: Only the worst case shown in the report.

6.7 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(d)(2)
Test Method:	ANSI/TIA-603-D 2010
Limit:	±2.5ppm for band 5 within authorized band for band 2 and 4 and 12 and 17
Test setup:	<pre> graph LR SA[SA] ---> Divider[Divider] SS[SS] ---> Divider Divider ---> EUT[EUT] EUT ---> Chamber[Temperature & Humidity Chamber] PowerSource[Power Source] ---> EUT </pre>
Test procedure:	<ol style="list-style-type: none"> Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.9 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	4.20	90	0.047872	within authorized band	Pass
	3.70	81	0.043085		
	3.50	72	0.038298		
16QAM					
25	4.20	89	0.047340	within authorized band	Pass
	3.70	70	0.037234		
	3.50	66	0.035106		

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	4.20	89	0.051371	within authorized band	Pass
	3.70	76	0.043867		
	3.50	63	0.036364		
16QAM					
25	4.20	88	0.050794	within authorized band	Pass
	3.70	70	0.040404		
	3.50	56	0.032323		

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	4.20	93	0.111178	±2.5	Pass
	3.70	80	0.095637		
	3.50	64	0.076509		
16QAM					
25	4.20	90	0.107591	±2.5	Pass
	3.70	79	0.094441		
	3.50	57	0.068141		

Note: Only the worst case shown in the report.

LTE Band 12 part:

Reference Frequency: LTE Band 12(10MHz) Middle channel=23095 channel=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.20	91	0.128622	within authorized band	Pass
	3.70	84	0.118728		
	3.50	59	0.083392		
16QAM					
25	4.20	86	0.121555	within authorized band	Pass
	3.70	70	0.098940		
	3.50	51	0.072085		

Note: Only the worst case shown in the report.

LTE Band 17 part:

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.20	94	0.132394	within authorized band	Pass
	3.70	78	0.109859		
	3.50	54	0.076056		
16QAM					
25	4.20	92	0.129577	within authorized band	Pass
	3.70	78	0.109859		
	3.50	58	0.081690		

Note: Only the worst case shown in the report.