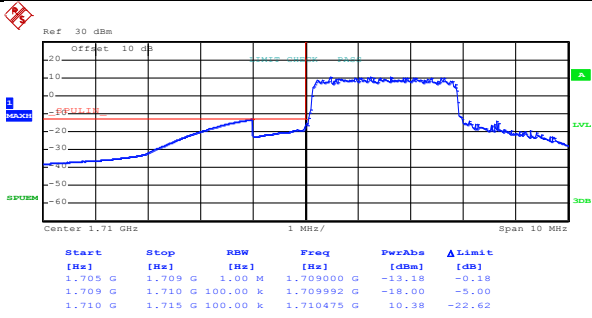
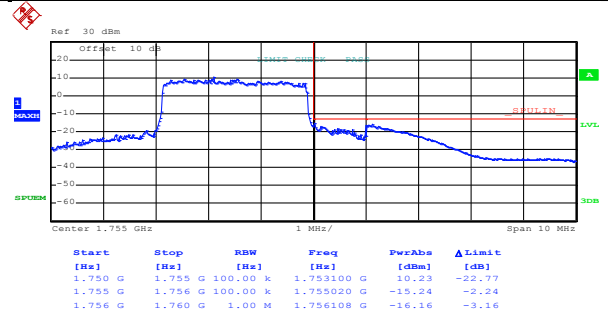


Test Mode: LTE band 4(QPSK RB Size 15 & RB Offset 0)



Date: 11.JUL.2017 14:24:08

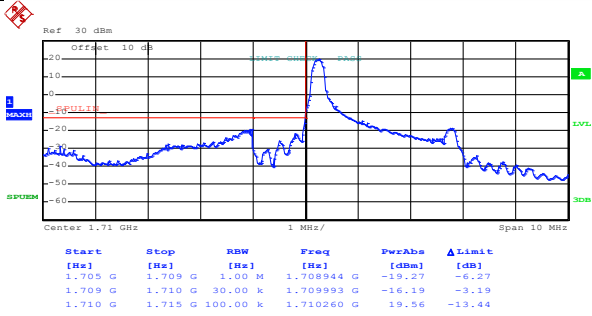
Lowest channel



Date: 11.JUL.2017 14:23:10

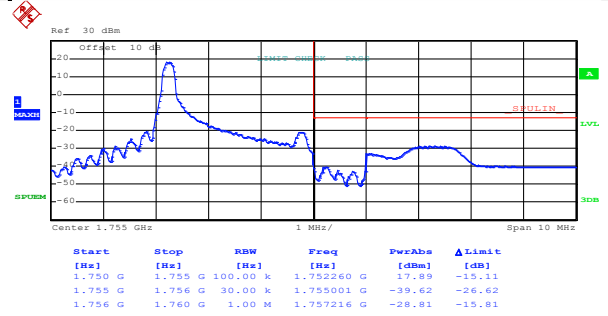
Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 14:00:36

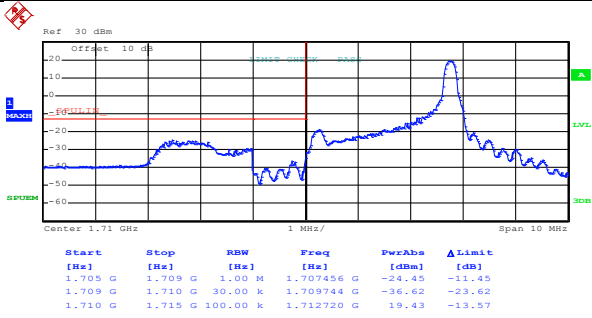
Lowest channel



Date: 11.JUL.2017 14:03:36

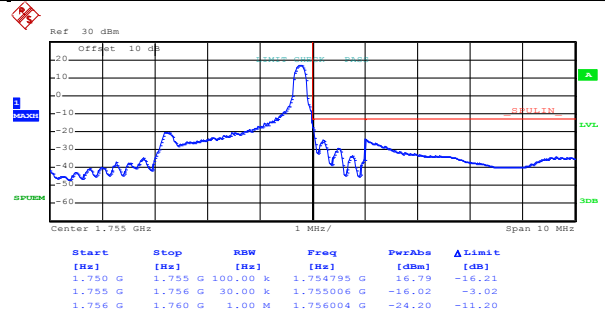
Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 14)



Date: 11.JUL.2017 14:01:15

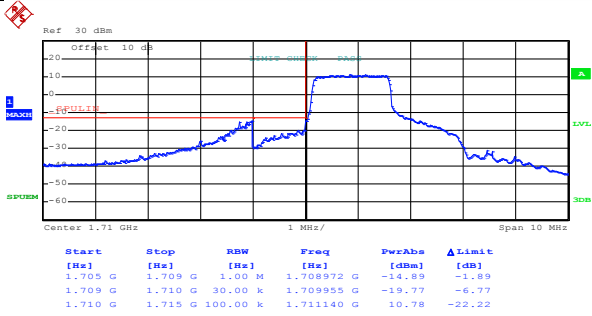
Lowest channel



Date: 11.JUL.2017 14:04:03

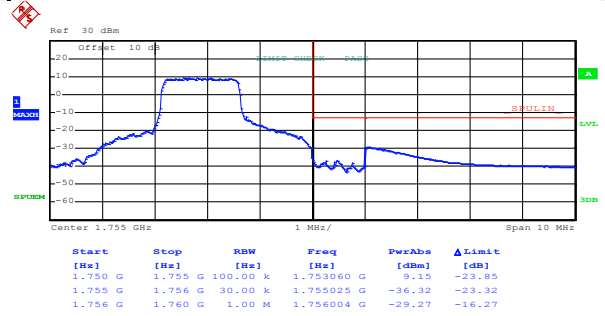
Highest channel

Test Mode: LTE band 4(16QAM RB Size 8 & RB Offset 0)



Date: 11.JUL.2017 14:02:06

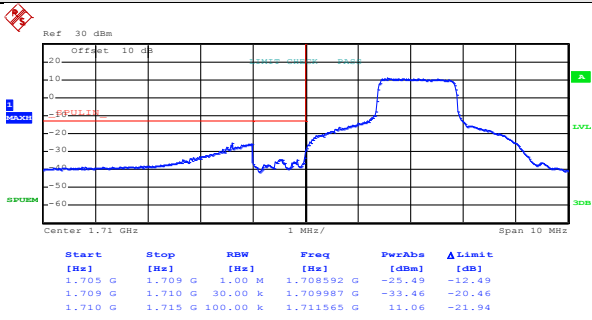
Lowest channel



Date: 11.JUL.2017 14:04:43

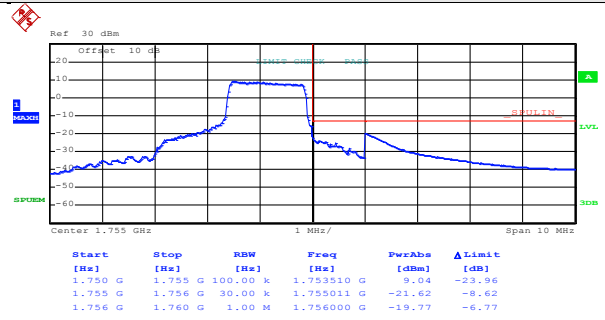
Highest channel

Test Mode: LTE band 4(16QAM RB Size 8 & RB Offset 7)



Date: 11.JUL.2017 14:02:35

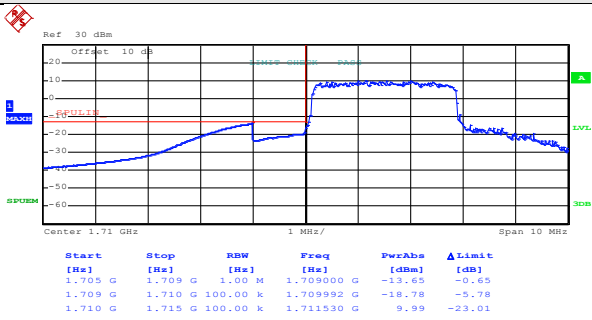
Lowest channel



Date: 11.JUL.2017 14:05:13

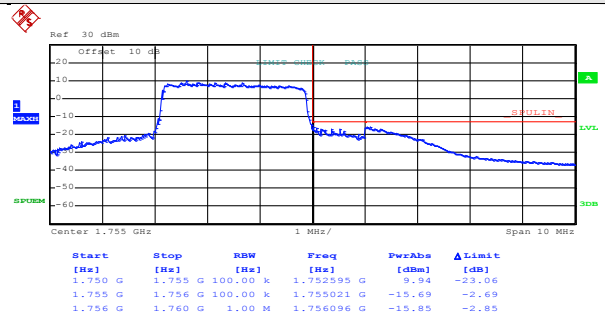
Highest channel

Test Mode: LTE band 4(16QAM RB Size 15 & RB Offset 0)



Date: 11.JUL.2017 14:24:23

Lowest channel

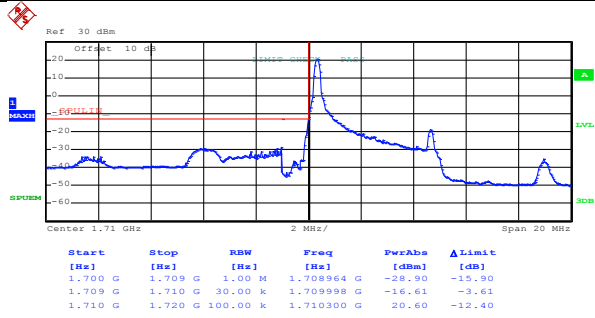


Date: 11.JUL.2017 14:23:19

Highest channel

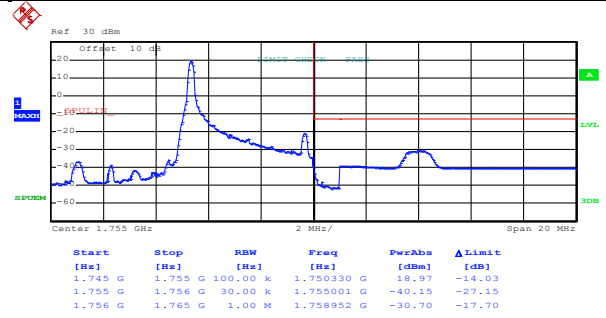
5MHz:

Test Mode: LTE band 4(QPSK RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 14:09:08

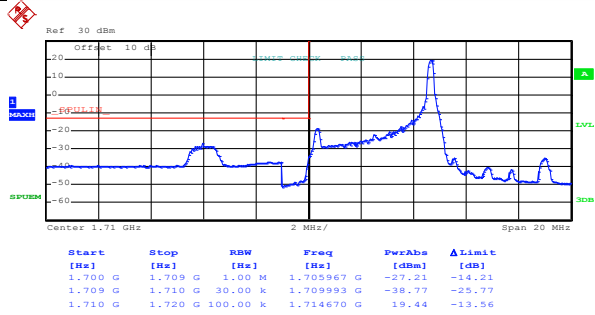
Lowest channel



Date: 11.JUL.2017 14:06:21

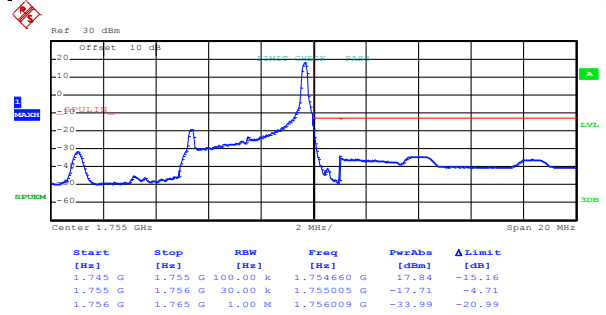
Highest channel

Test Mode: LTE band 4(QPSK RB Size 1 & RB Offset 24)



Date: 11.JUL.2017 14:09:41

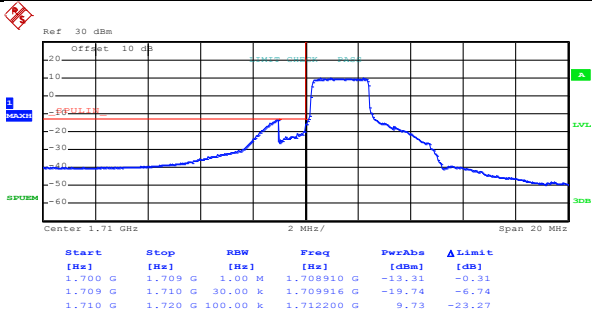
Lowest channel



Date: 11.JUL.2017 14:06:53

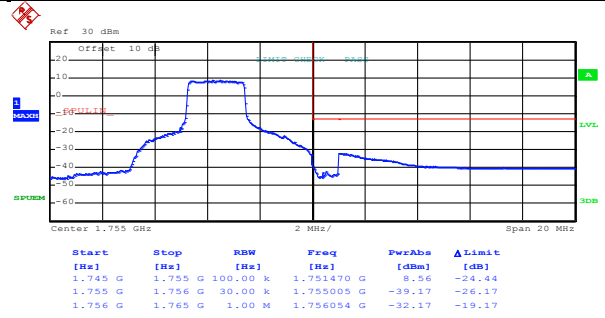
Highest channel

Test Mode: LTE band 4(QPSK RB Size 12 & RB Offset 0)



Date: 11.JUL.2017 14:10:50

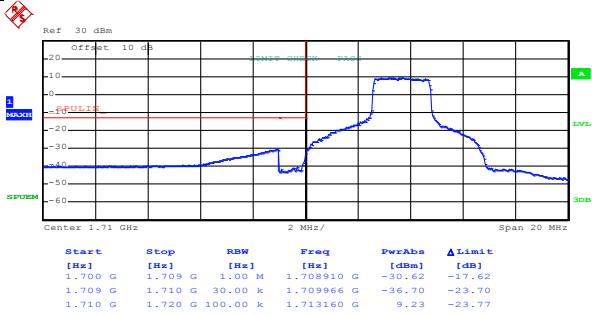
Lowest channel



Date: 11.JUL.2017 14:07:36

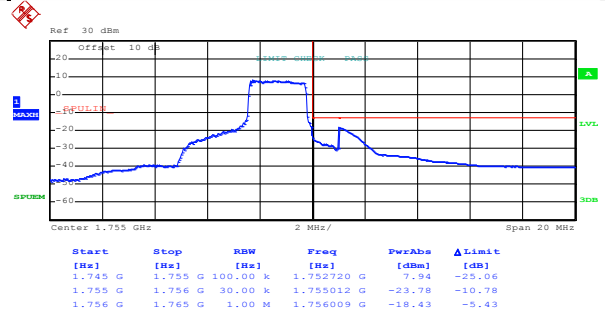
Highest channel

Test Mode: LTE band 4(QPSK RB Size 12 & RB Offset 11)



Date: 11.JUL.2017 14:11:30

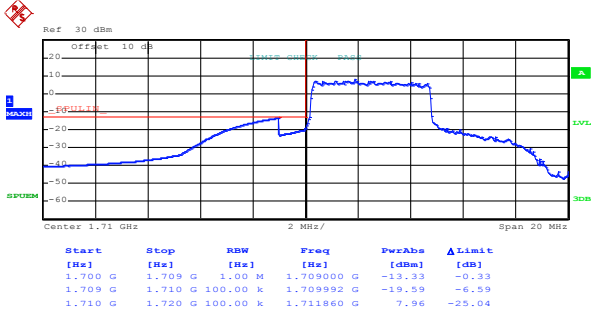
Lowest channel



Date: 11.JUL.2017 14:08:13

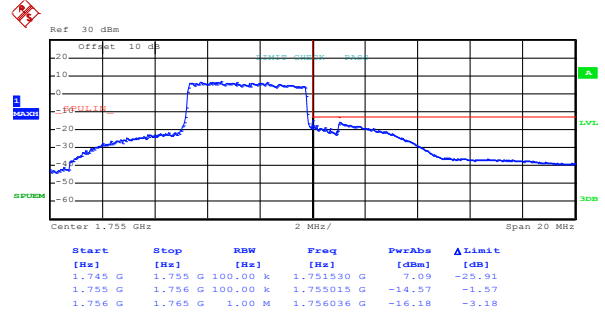
Highest channel

Test Mode: LTE band 4(QPSK RB Size 25 & RB Offset 0)



Date: 11.JUL.2017 14:20:33

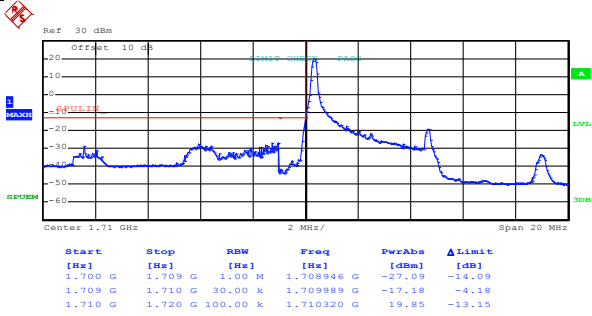
Lowest channel



Date: 11.JUL.2017 14:21:44

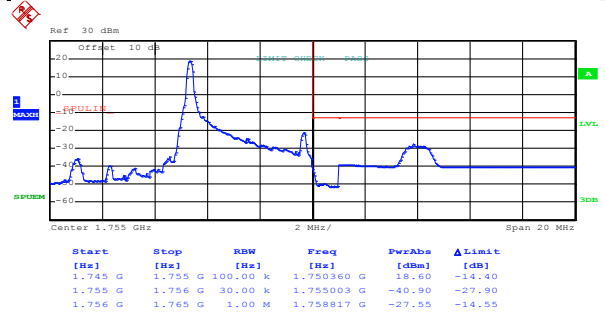
Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 14:09:22

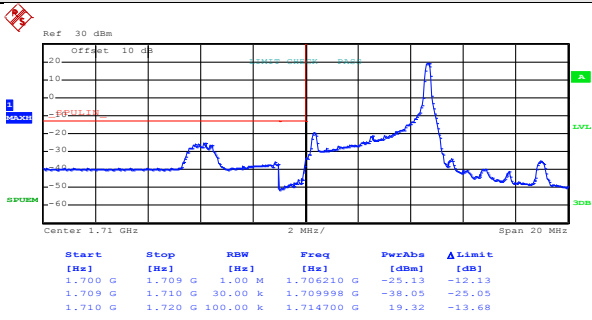
Lowest channel



Date: 11.JUL.2017 14:06:35

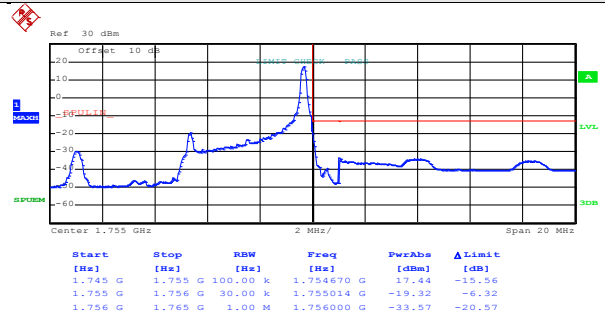
Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 24)



Date: 11.JUL.2017 14:09:54

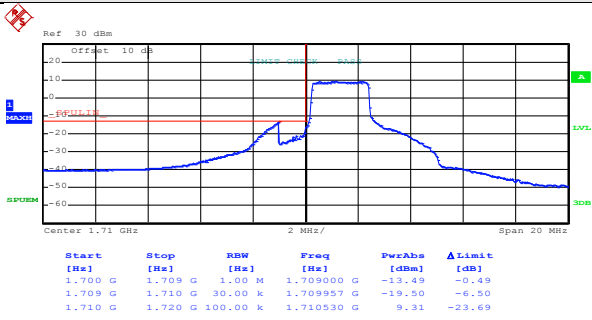
Lowest channel



Date: 11.JUL.2017 14:07:06

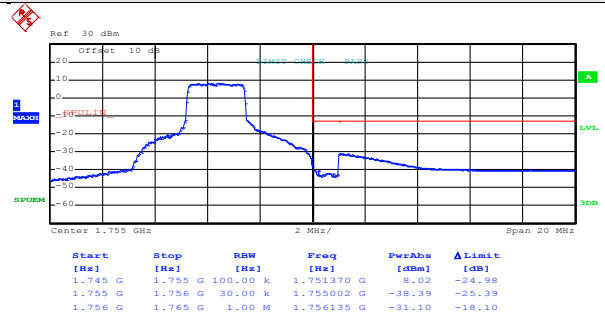
Highest channel

Test Mode: LTE band 4(16QAM RB Size 12 & RB Offset 0)



Date: 11.JUL.2017 14:11:12

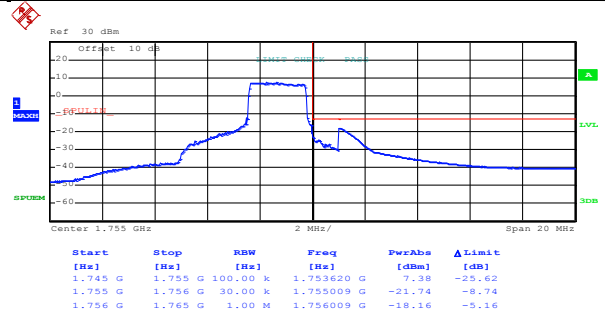
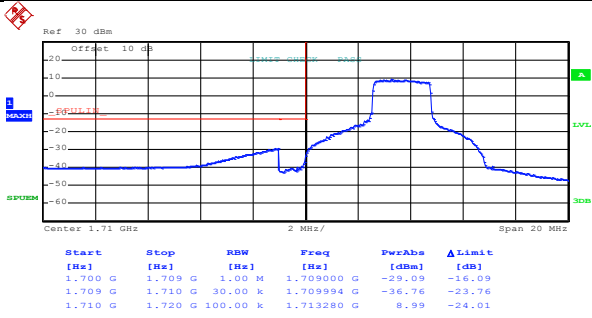
Lowest channel



Date: 11.JUL.2017 14:07:49

Highest channel

Test Mode: LTE band 4(16QAM RB Size 12 & RB Offset 11)



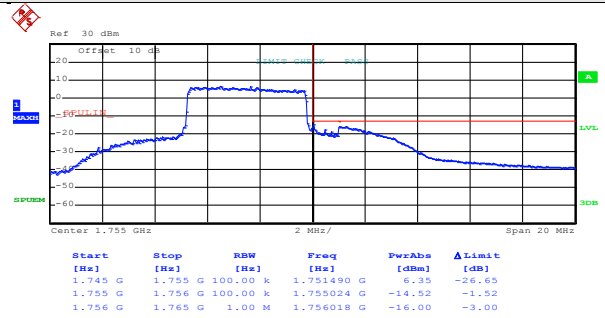
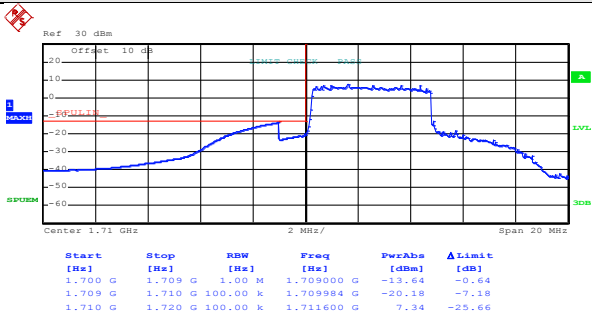
Date: 11.JUL.2017 14:11:43

Date: 11.JUL.2017 14:08:29

Lowest channel

Highest channel

Test Mode: LTE band 4(16QAM RB Size 25 & RB Offset 0)



Date: 11.JUL.2017 14:20:47

Date: 11.JUL.2017 14:21:56

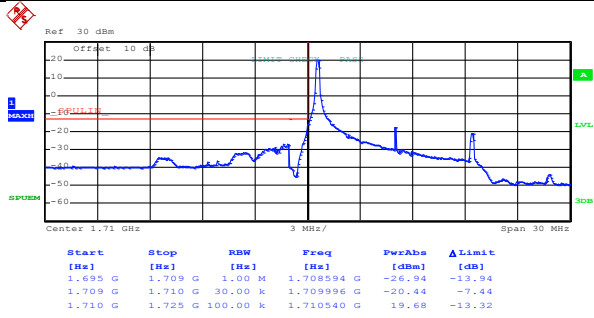
Lowest channel

Highest channel



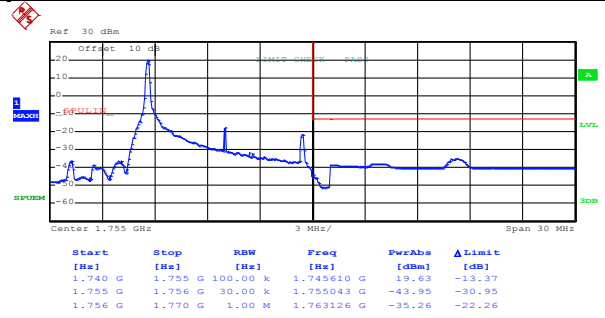
10MHz:

Test Mode: LTE band 4(QPSK RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 14:39:18

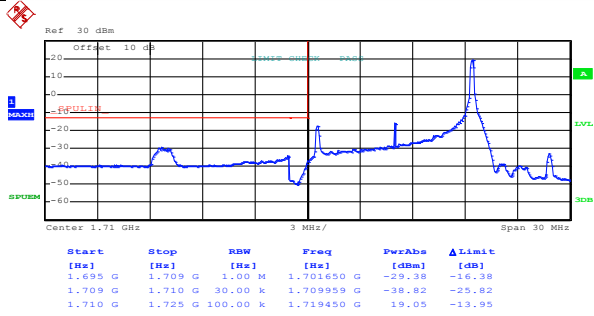
Lowest channel



Date: 11.JUL.2017 14:41:00

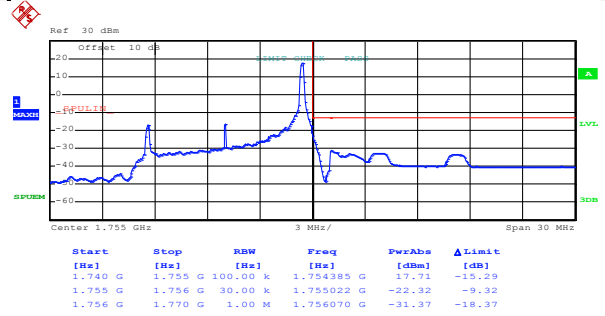
Highest channel

Test Mode: LTE band 4(QPSK RB Size 1 & RB Offset 49)



Date: 11.JUL.2017 14:39:49

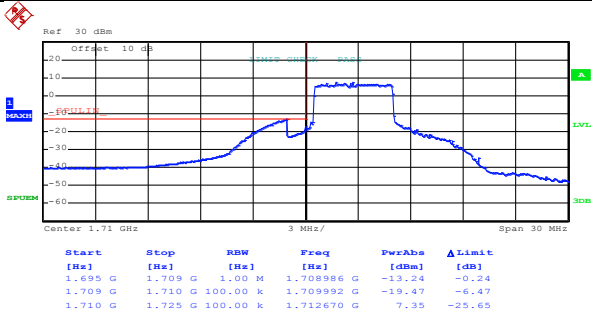
Lowest channel



Date: 11.JUL.2017 14:41:26

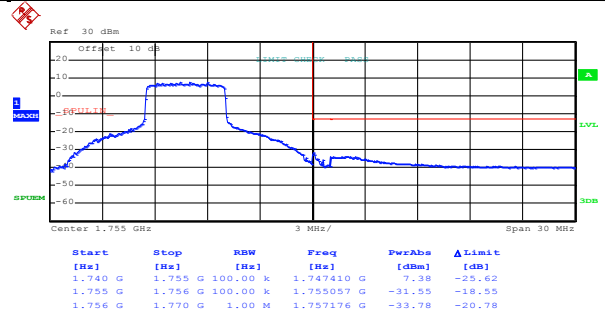
Highest channel

Test Mode: LTE band 4(QPSK RB Size 25 & RB Offset 0)



Date: 11.JUL.2017 14:27:13

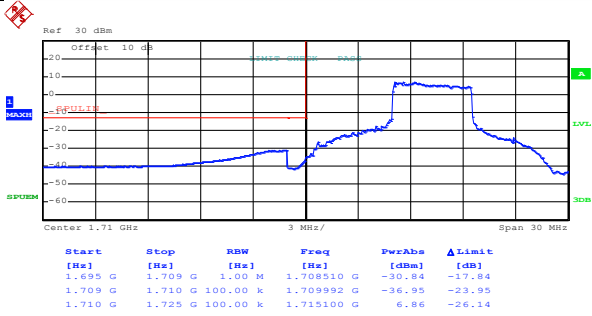
Lowest channel



Date: 11.JUL.2017 14:28:56

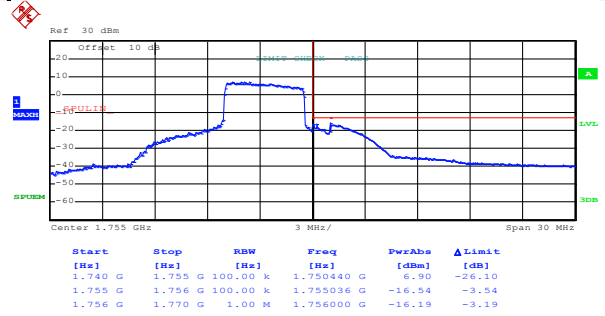
Highest channel

Test Mode: LTE band 4(QPSK RB Size 25 & RB Offset 24)



Date: 11.JUL.2017 14:27:49

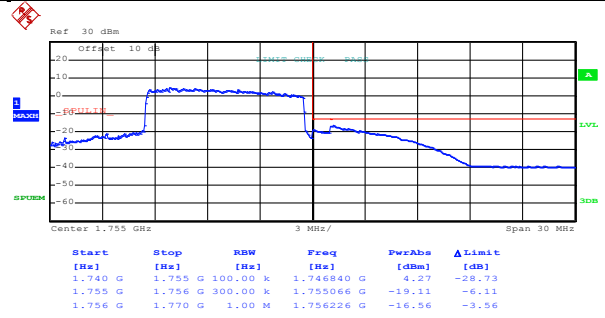
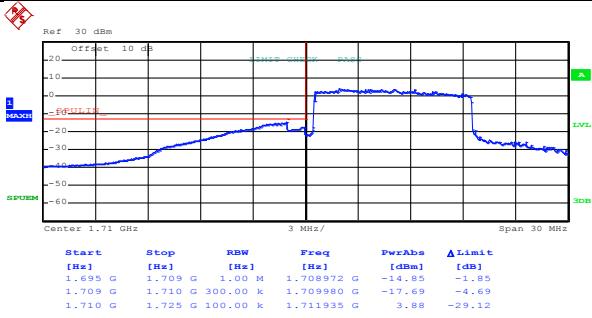
Lowest channel



Date: 11.JUL.2017 14:29:33

Highest channel

Test Mode: LTE band 4(QPSK RB Size 50 & RB Offset 0)



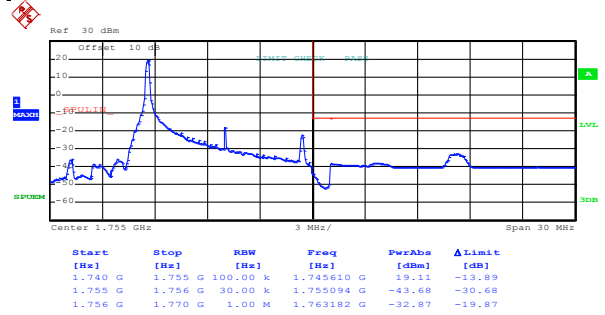
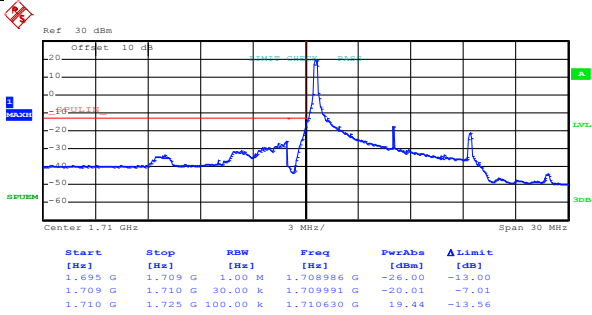
Date: 11.JUL.2017 15:02:53

Date: 11.JUL.2017 15:01:49

Lowest channel

Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 0)



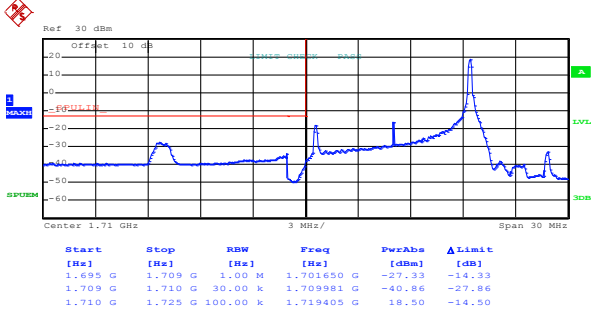
Date: 11.JUL.2017 14:39:29

Date: 11.JUL.2017 14:41:12

Lowest channel

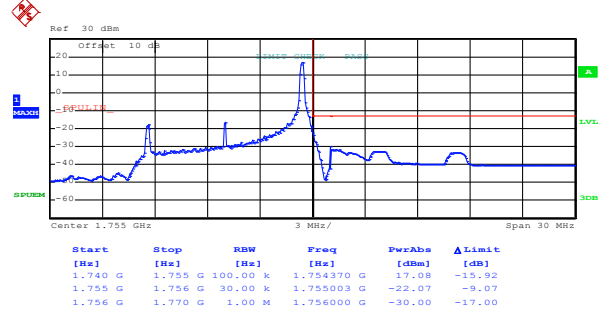
Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 49)



Date: 11.JUL.2017 14:39:59

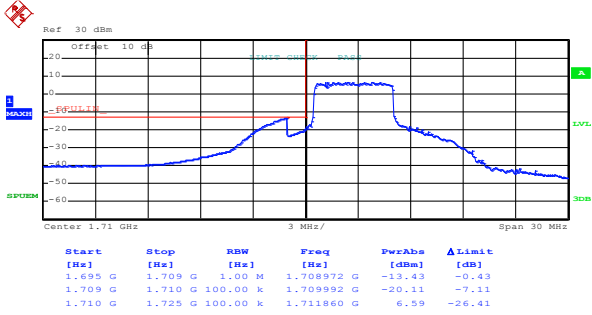
Lowest channel



Date: 11.JUL.2017 14:41:39

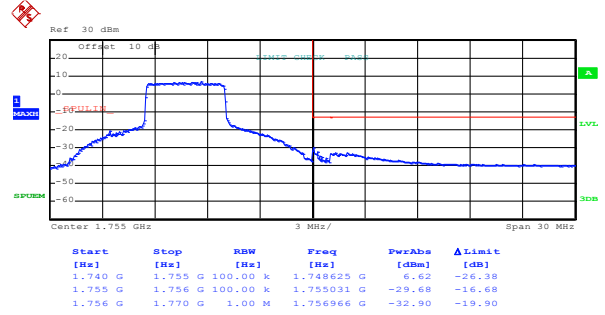
Highest channel

Test Mode: LTE band 4(16QAM RB Size 25 & RB Offset 0)



Date: 11.JUL.2017 14:27:30

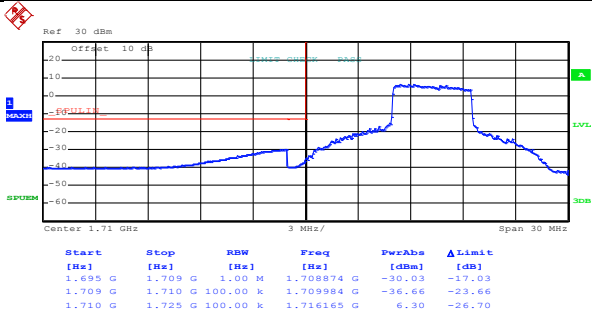
Lowest channel



Date: 11.JUL.2017 14:29:16

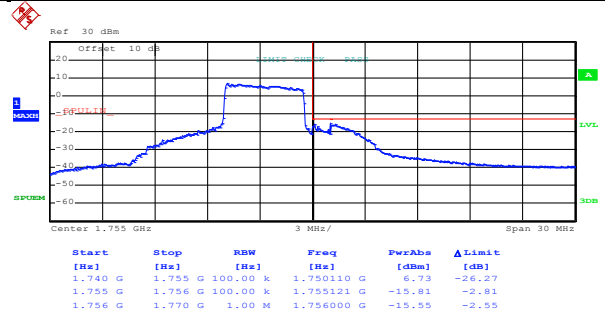
Highest channel

Test Mode: LTE band 4(16QAM RB Size 25 & RB Offset 24)



Date: 11.JUL.2017 14:28:04

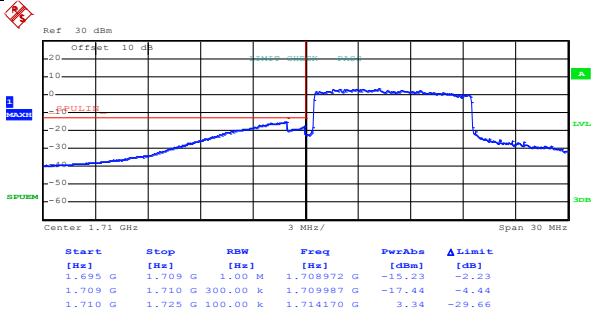
Lowest channel



Date: 11.JUL.2017 14:29:47

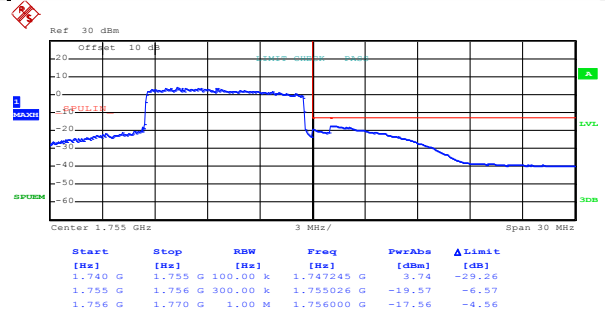
Highest channel

Test Mode: LTE band 4(16QAM RB Size 50 & RB Offset 0)



Date: 11.JUL.2017 15:03:04

Lowest channel

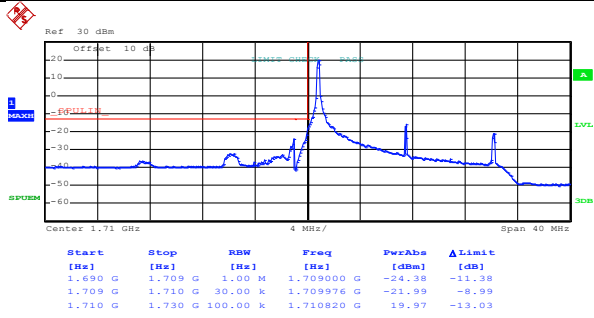


Date: 11.JUL.2017 15:02:01

Highest channel

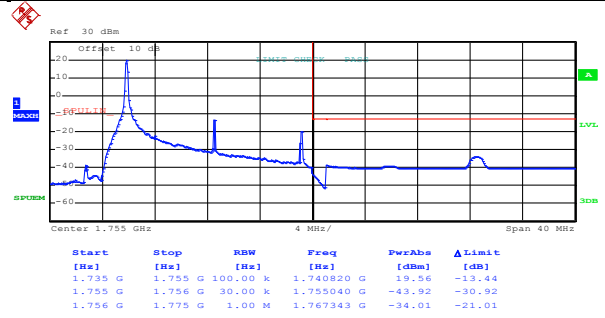
15MHz:

Test Mode: LTE band 4(QPSK RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 14:45:17

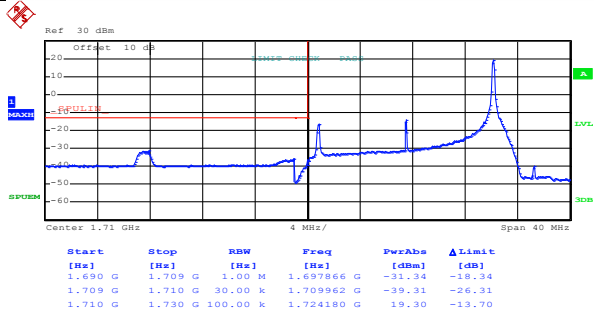
Lowest channel



Date: 11.JUL.2017 14:43:30

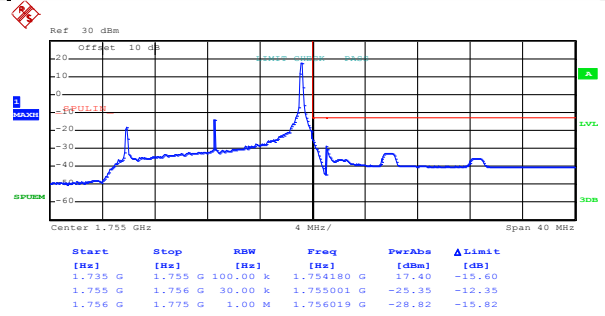
Highest channel

Test Mode: LTE band 4(QPSK RB Size 1 & RB Offset 74)



Date: 11.JUL.2017 14:45:50

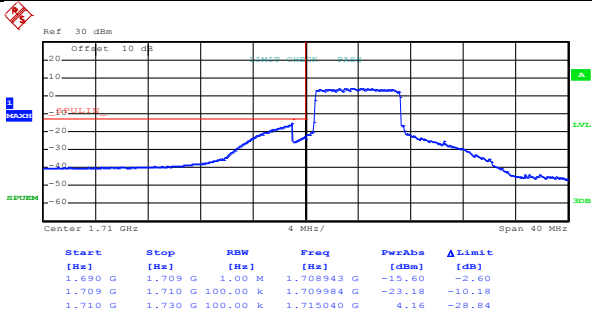
Lowest channel



Date: 11.JUL.2017 14:44:03

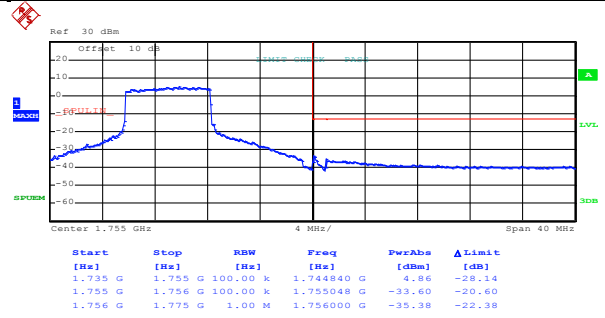
Highest channel

Test Mode: LTE band 4(QPSK RB Size 36 & RB Offset 0)



Date: 11.JUL.2017 14:36:11

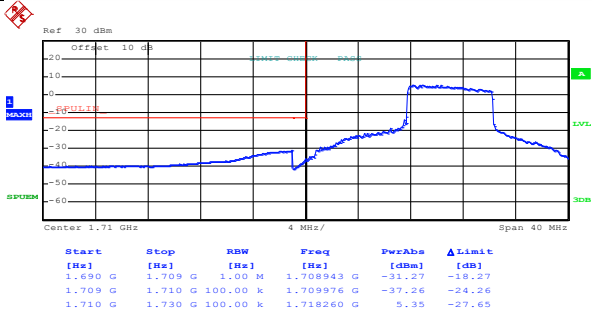
Lowest channel



Date: 11.JUL.2017 14:33:35

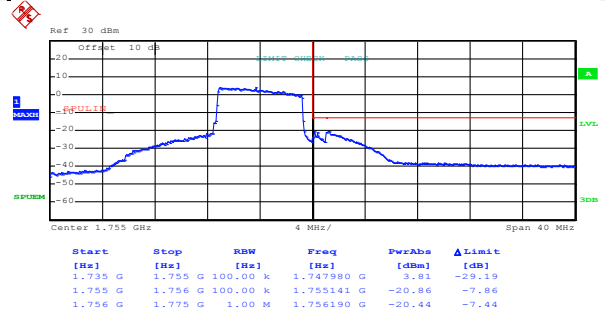
Highest channel

Test Mode: LTE band 4(QPSK RB Size 36 & RB Offset 37)



Date: 11.JUL.2017 14:36:41

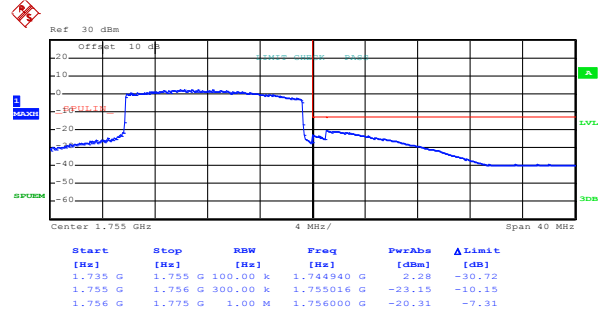
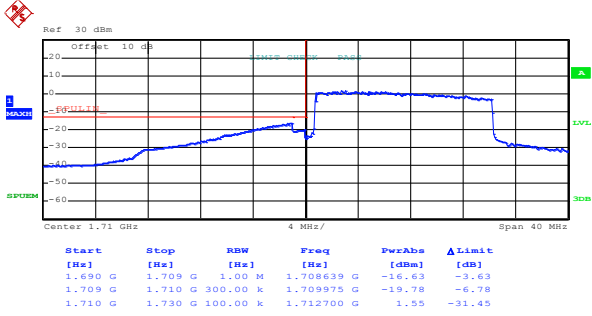
Lowest channel



Date: 11.JUL.2017 14:34:06

Highest channel

Test Mode: LTE band 4(QPSK RB Size 75 & RB Offset 0)



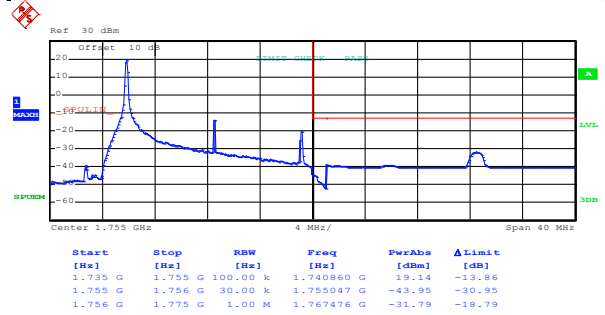
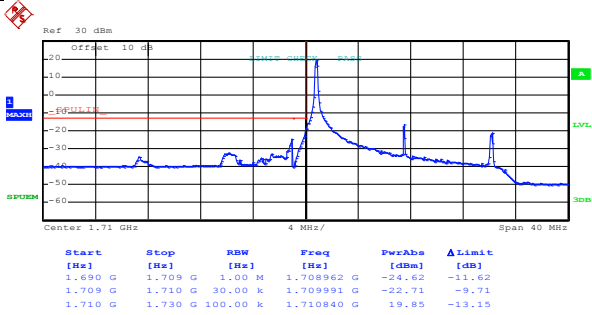
Date: 11.JUL.2017 14:59:30

Date: 11.JUL.2017 15:00:19

Lowest channel

Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 14:45:33

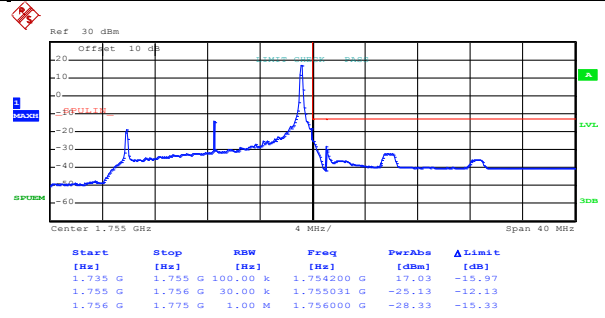
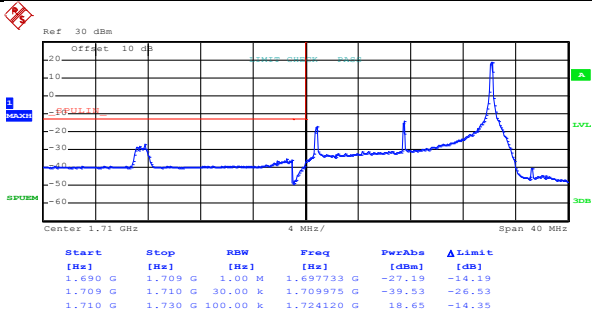
Date: 11.JUL.2017 14:43:43

Lowest channel

Highest channel



**Test Mode:** LTE band 4(16QAM RB Size 1 & RB Offset 74)



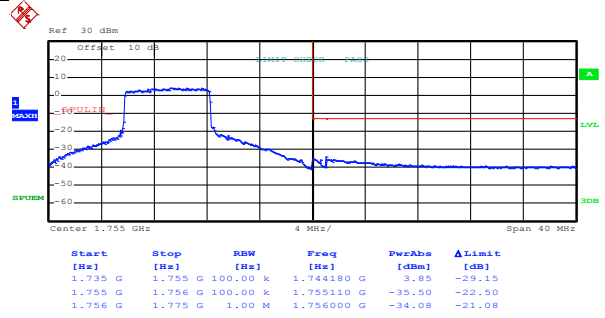
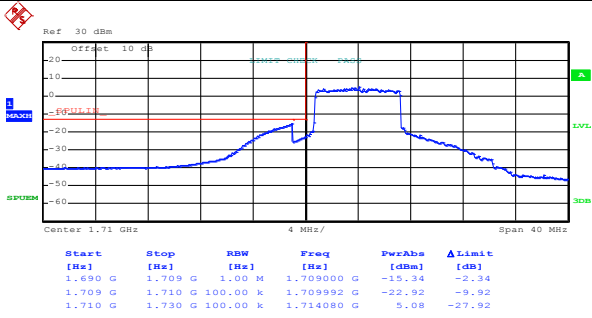
Date: 11.JUL.2017 14:46:02

Date: 11.JUL.2017 14:44:17

Lowest channel

Highest channel

**Test Mode:** LTE band 4(16QAM RB Size 36 & RB Offset 0)



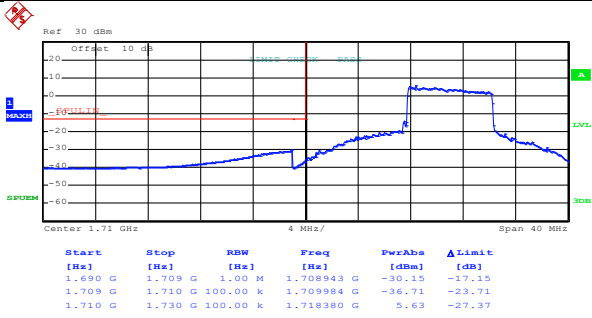
Date: 11.JUL.2017 14:36:24

Date: 11.JUL.2017 14:33:49

Lowest channel

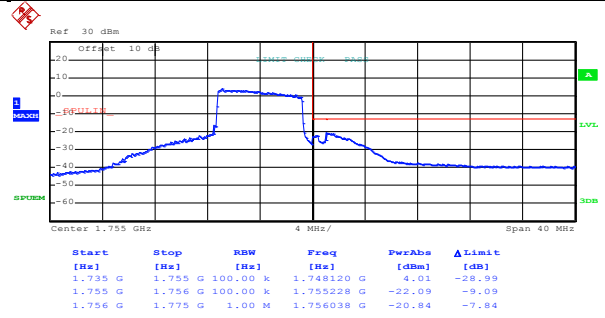
Highest channel

Test Mode: LTE band 4(16QAM RB Size 36 & RB Offset 37)



Date: 11.JUL.2017 14:36:55

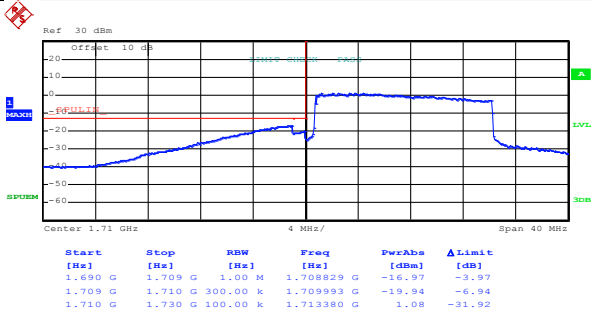
Lowest channel



Date: 11.JUL.2017 14:34:19

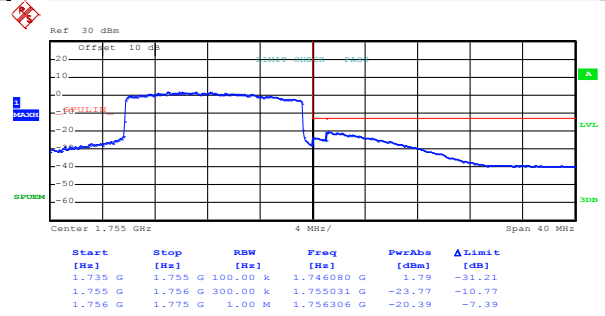
Highest channel

Test Mode: LTE band 4(16QAM RB Size 75 & RB Offset 0)



Date: 11.JUL.2017 14:59:50

Lowest channel

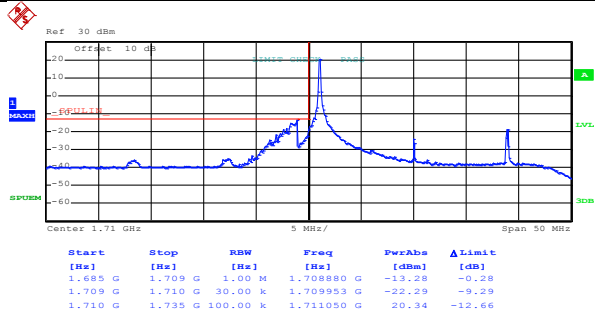


Date: 11.JUL.2017 15:00:28

Highest channel

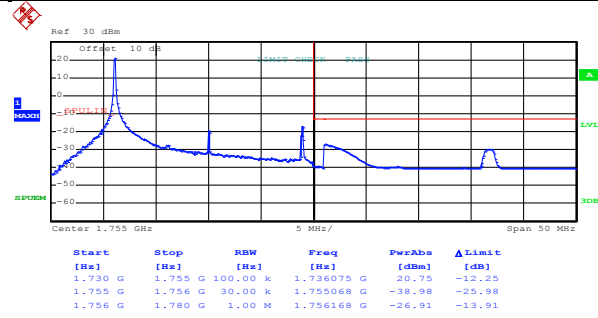
20MHz:

Test Mode: LTE band 4(QPSK RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 14:47:31

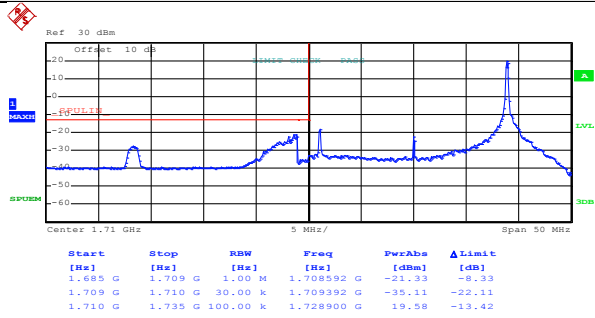
Lowest channel



Date: 11.JUL.2017 14:49:14

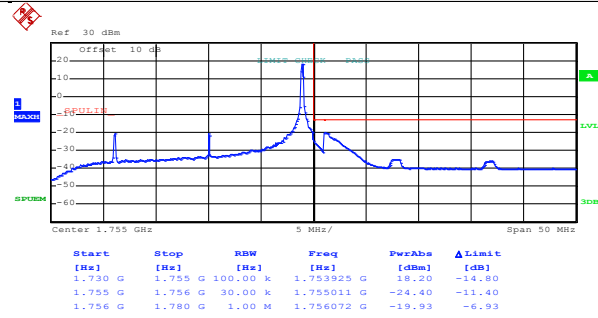
Highest channel

Test Mode: LTE band 4(QPSK RB Size 1 & RB Offset 99)



Date: 11.JUL.2017 14:48:02

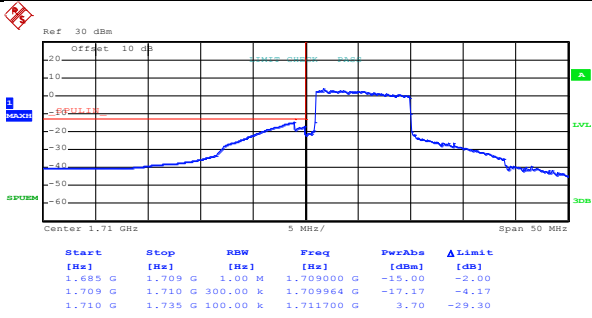
Lowest channel



Date: 11.JUL.2017 14:49:40

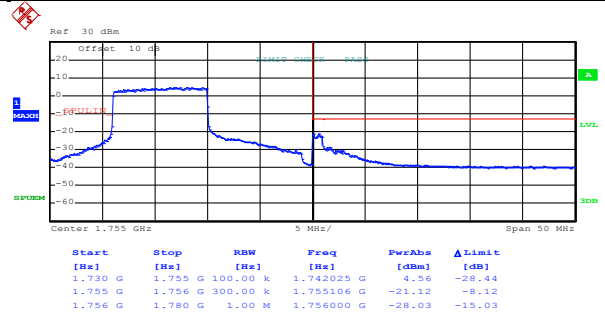
Highest channel

Test Mode: LTE band 4(QPSK RB Size 50 & RB Offset 0)



Date: 11.JUL.2017 14:55:52

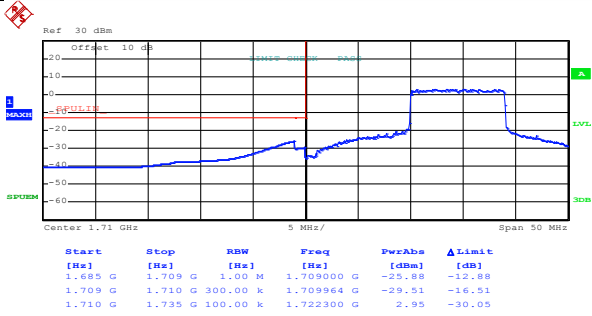
Lowest channel



Date: 11.JUL.2017 14:52:10

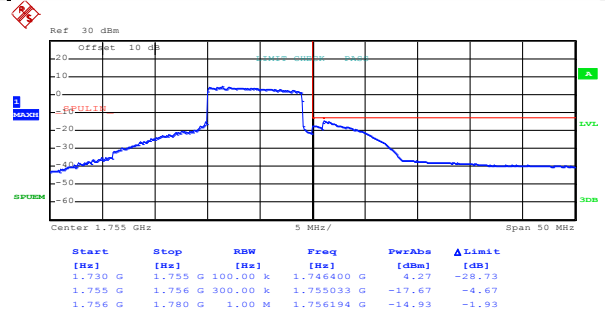
Highest channel

Test Mode: LTE band 4(QPSK RB Size 50 & RB Offset 49)



Date: 11.JUL.2017 14:56:46

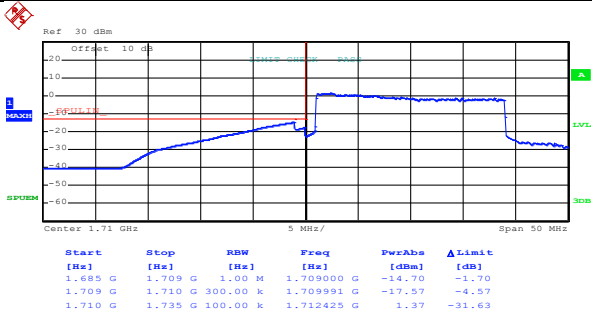
Lowest channel



Date: 11.JUL.2017 14:53:07

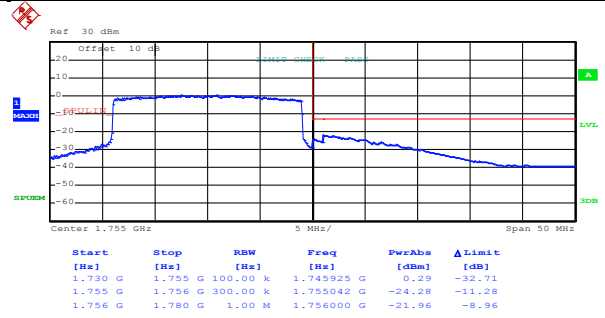
Highest channel

Test Mode: LTE band 4(QPSK RB Size 100 & RB Offset 0)



Date: 11.JUL.2017 14:57:21

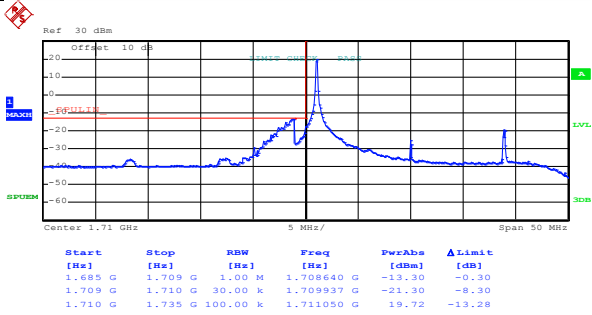
Lowest channel



Date: 11.JUL.2017 14:53:40

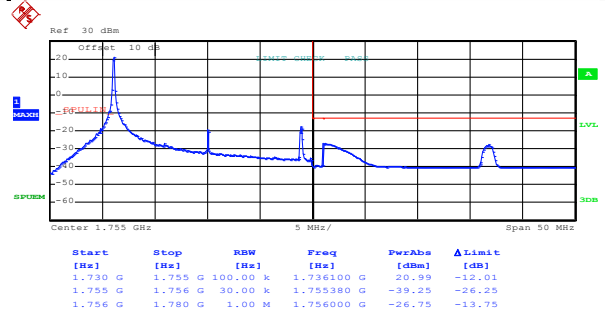
Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 14:47:49

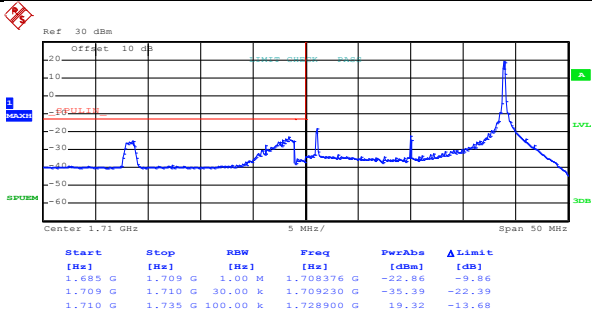
Lowest channel



Date: 11.JUL.2017 14:49:26

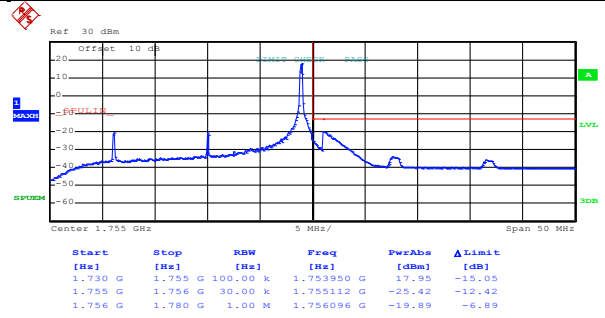
Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 99)



Date: 11.JUL.2017 14:48:14

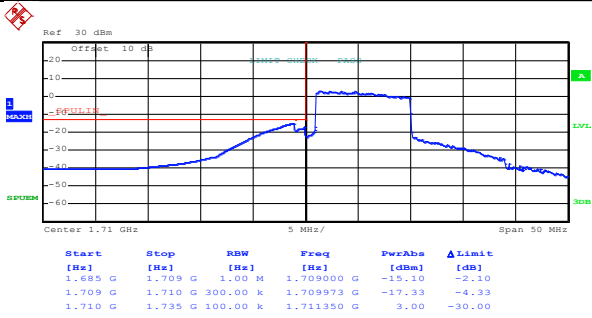
Lowest channel



Date: 11.JUL.2017 14:49:53

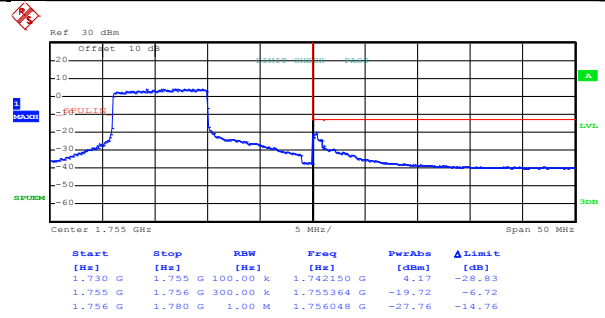
Highest channel

Test Mode: LTE band 4(16QAM RB Size 50 & RB Offset 0)



Date: 11.JUL.2017 14:56:13

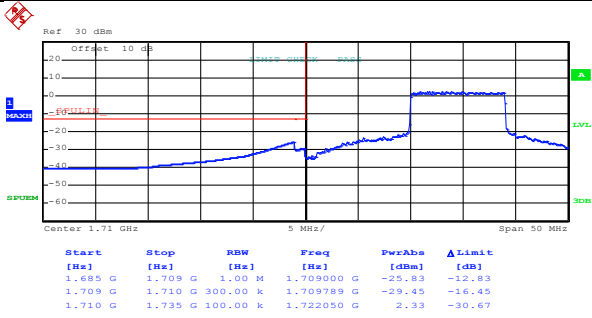
Lowest channel



Date: 11.JUL.2017 14:52:24

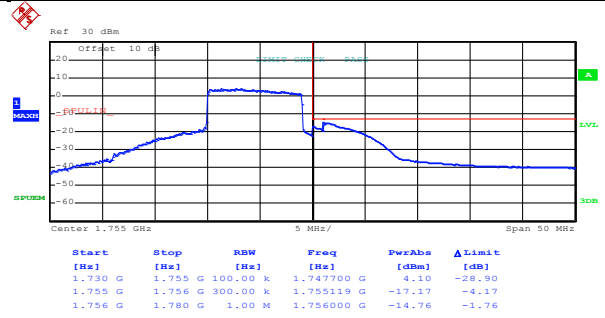
Highest channel

Test Mode: LTE band 4(16QAM RB Size 50 & RB Offset 49)



Date: 11.JUL.2017 14:57:03

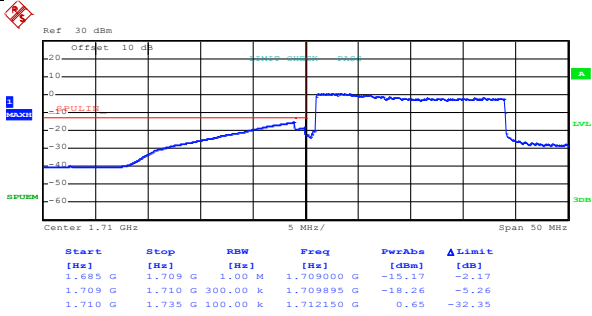
Lowest channel



Date: 11.JUL.2017 14:53:22

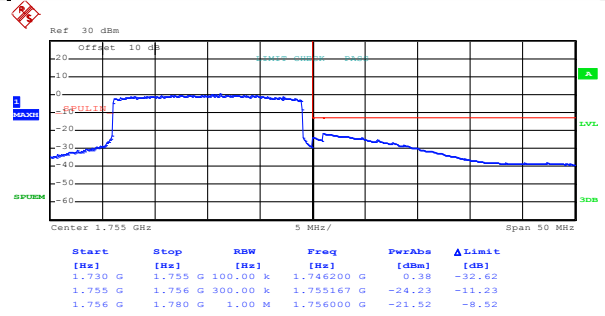
Highest channel

Test Mode: LTE band 4(16QAM RB Size 100 & RB Offset 0)



Date: 11.JUL.2017 14:57:32

Lowest channel



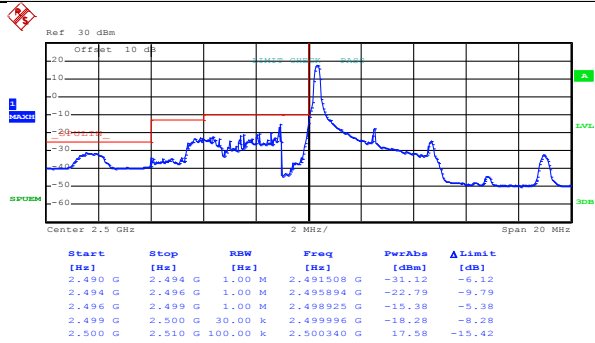
Date: 11.JUL.2017 14:53:51

Highest channel

LTE band 7 part:

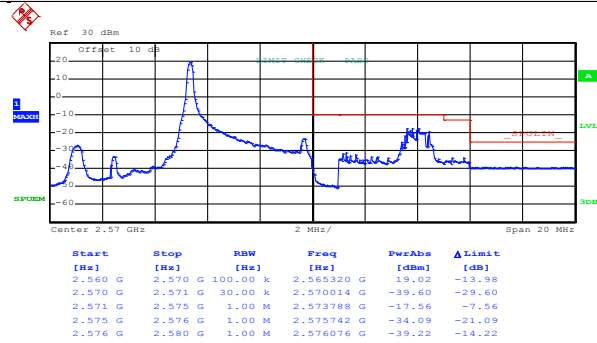
5MHz:

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 09:28:54

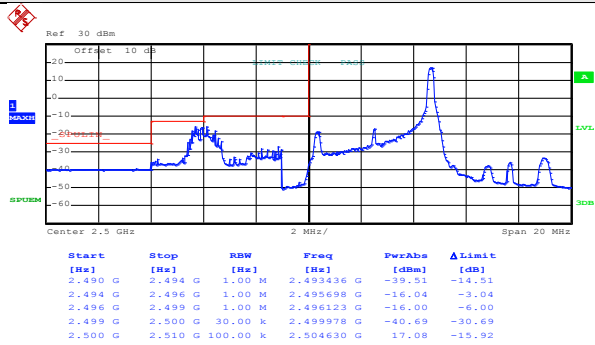
Lowest channel



Date: 11.JUL.2017 10:33:00

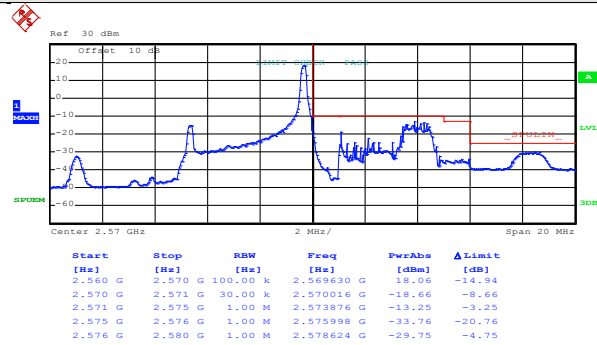
Highest channel

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 24)



Date: 11.JUL.2017 09:29:23

Lowest channel

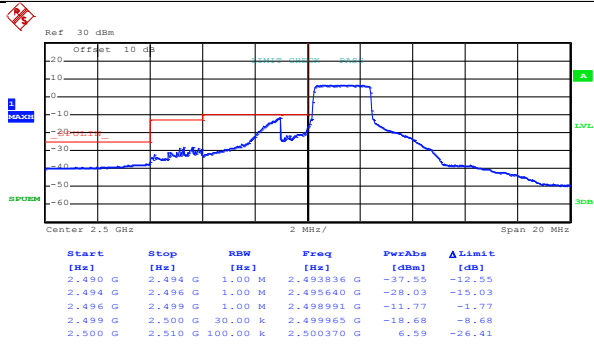


Date: 11.JUL.2017 10:34:01

Highest channel

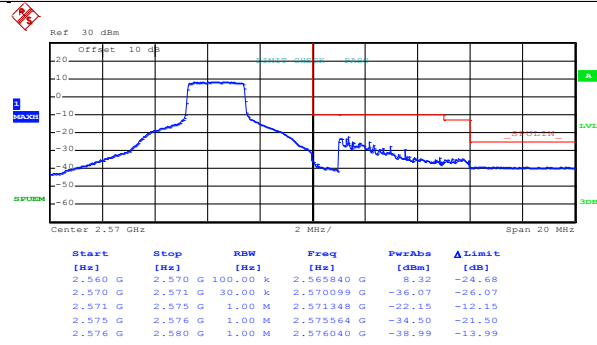


Test Mode: LTE band 7(QPSK RB Size 12 & RB Offset 0)



Date: 11.JUL.2017 10:38:40

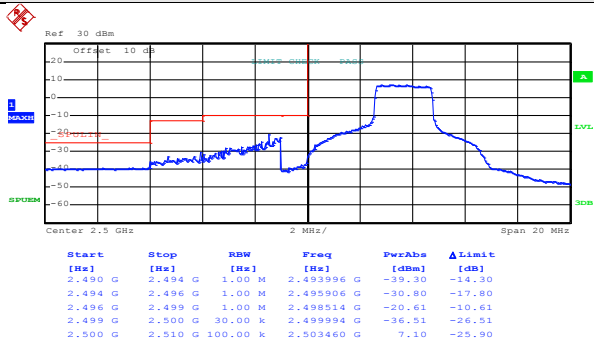
Lowest channel



Date: 11.JUL.2017 10:35:11

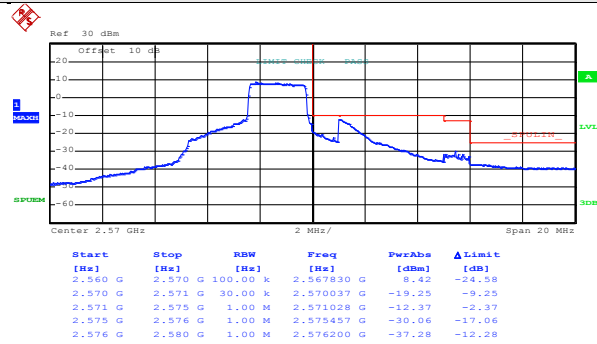
Highest channel

Test Mode: LTE band 7(QPSK RB Size 12 & RB Offset 11)



Date: 11.JUL.2017 09:32:06

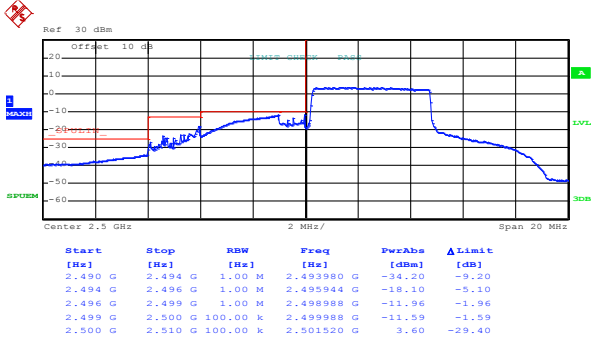
Lowest channel



Date: 11.JUL.2017 10:36:21

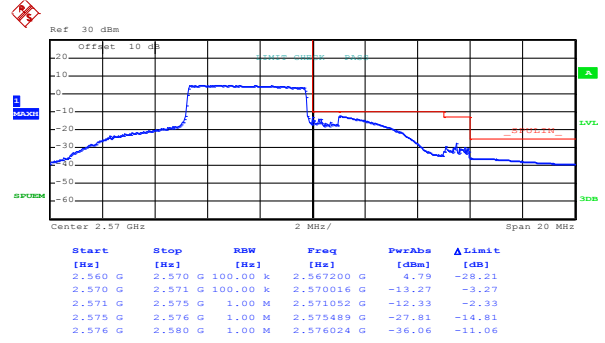
Highest channel

Test Mode: LTE band 7(QPSK RB Size 25 & RB Offset 0)



Date: 11.JUL.2017 10:42:03

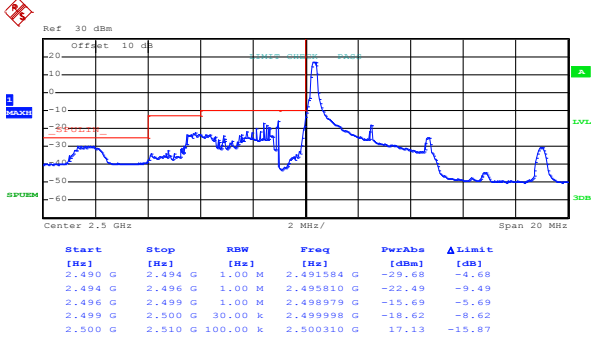
Lowest channel



Date: 11.JUL.2017 10:45:02

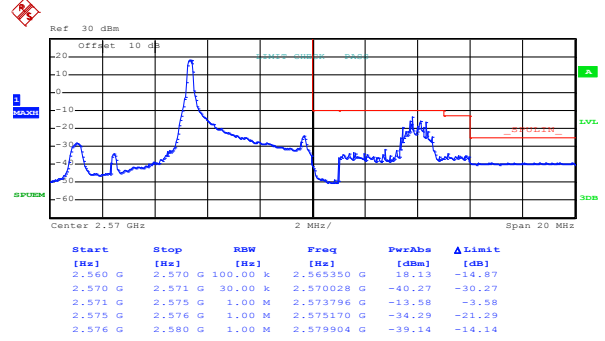
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 09:29:09

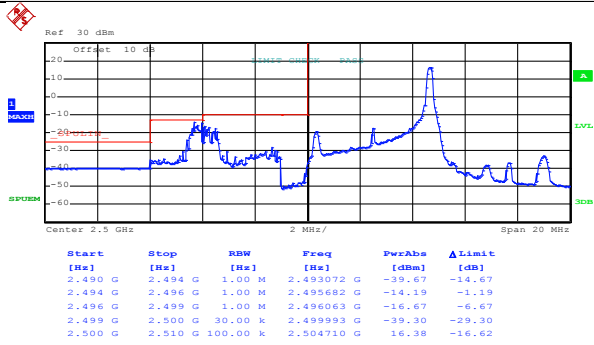
Lowest channel



Date: 11.JUL.2017 10:33:25

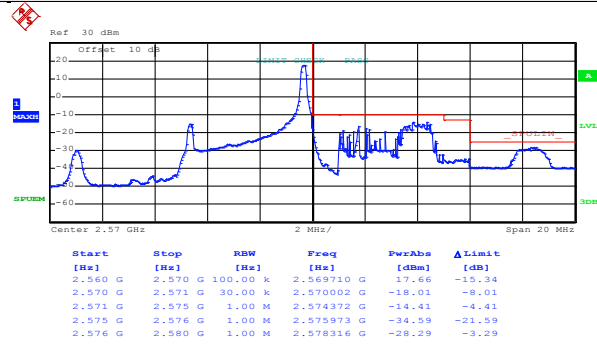
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 24)



Date: 11.JUL.2017 09:29:36

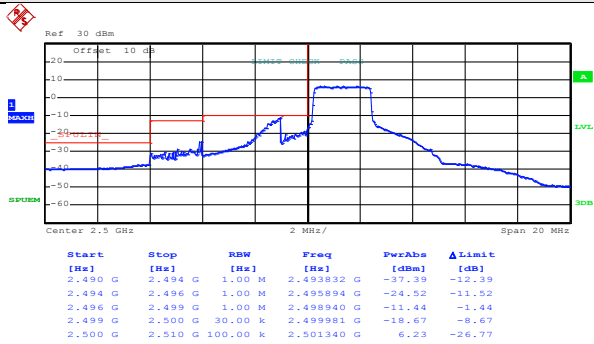
Lowest channel



Date: 11.JUL.2017 10:34:33

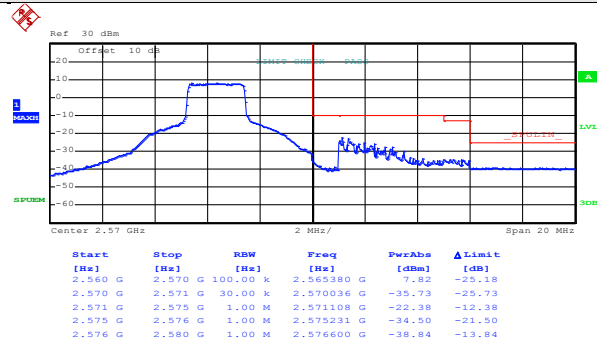
Highest channel

Test Mode: LTE band 7(16QAM RB Size 12 & RB Offset 0)



Date: 11.JUL.2017 10:38:57

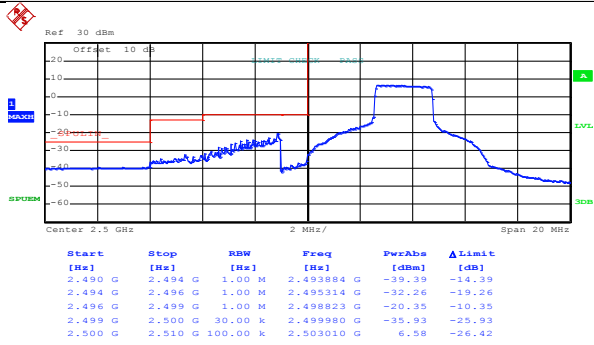
Lowest channel



Date: 11.JUL.2017 10:35:23

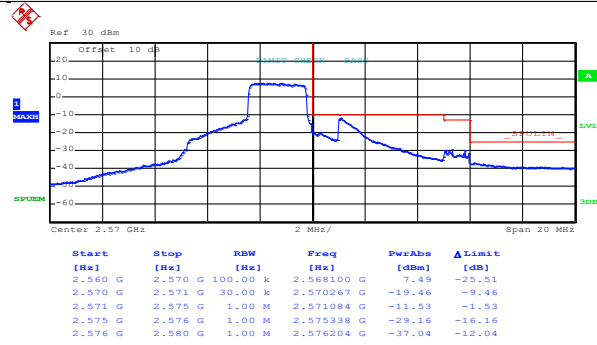
Highest channel

Test Mode: LTE band 7(16QAM RB Size 12 & RB Offset 11)



Date: 11.JUL.2017 09:32:18

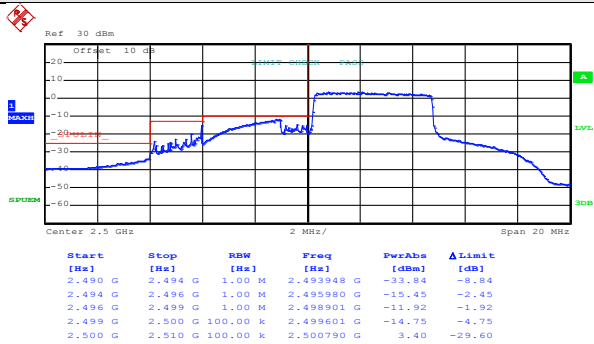
Lowest channel



Date: 11.JUL.2017 10:36:43

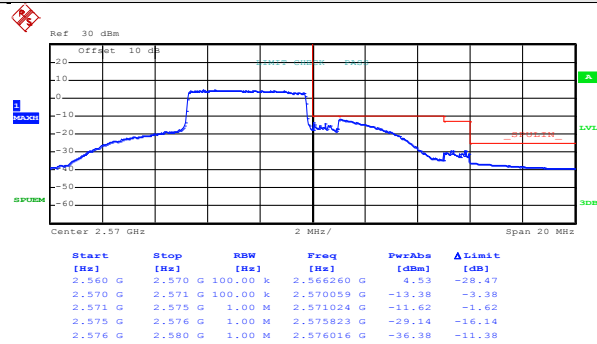
Highest channel

Test Mode: LTE band 7(16QAM RB Size 25 & RB Offset 0)



Date: 11.JUL.2017 10:42:14

Lowest channel

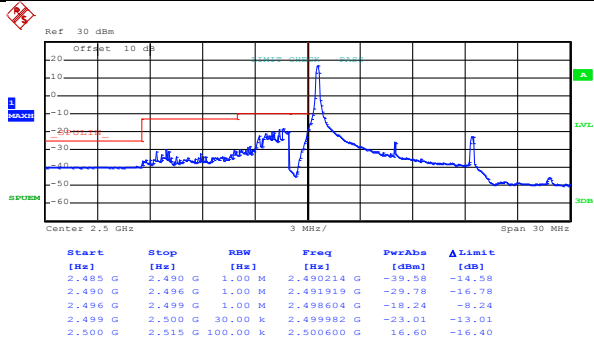


Date: 11.JUL.2017 10:45:17

Highest channel

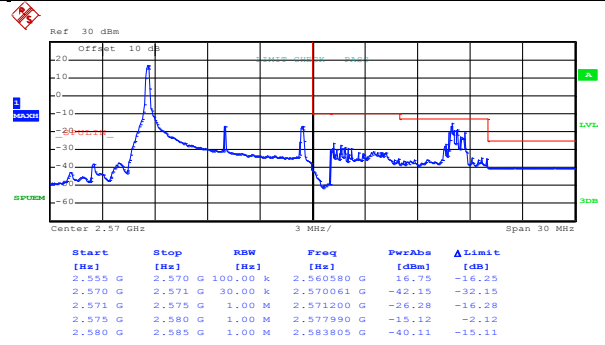
10MHz:

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 10:47:05

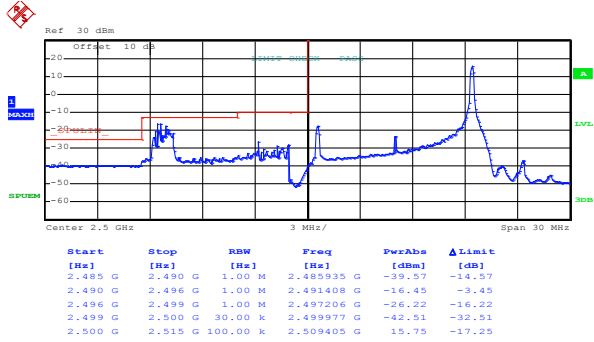
Lowest channel



Date: 11.JUL.2017 11:02:31

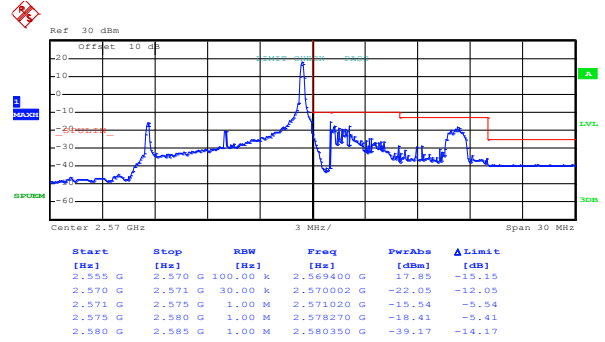
Highest channel

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 49)



Date: 11.JUL.2017 10:47:40

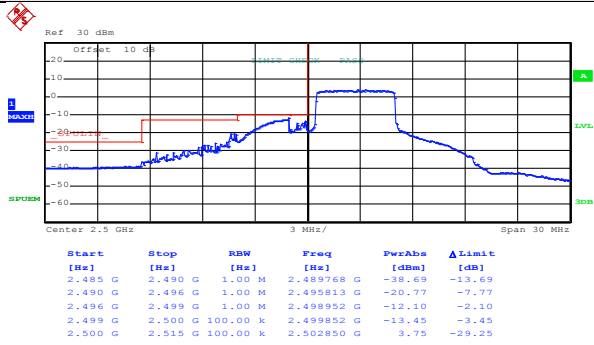
Lowest channel



Date: 11.JUL.2017 12:49:50

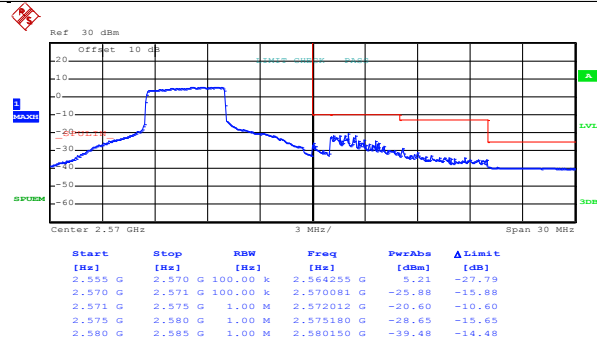
Highest channel

Test Mode: LTE band 7(QPSK RB Size 25 & RB Offset 0)



Date: 11.JUL.2017 11:48:35

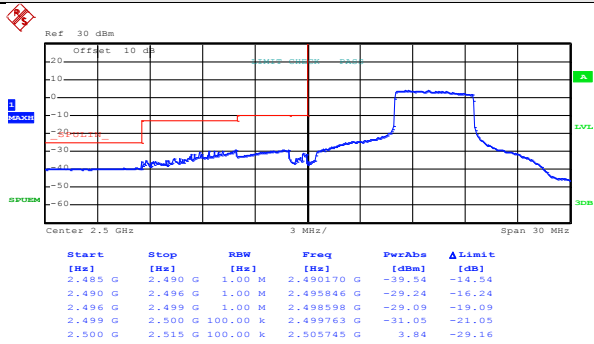
Lowest channel



Date: 11.JUL.2017 11:45:46

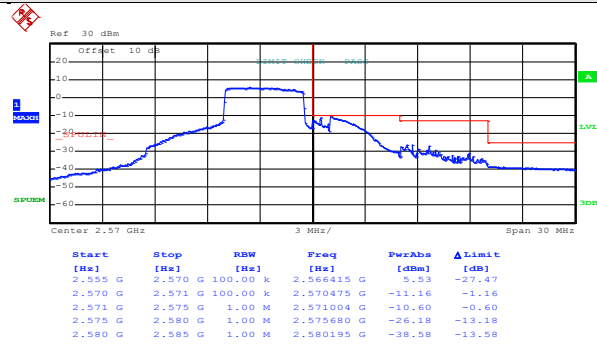
Highest channel

Test Mode: LTE band 7(QPSK RB Size 25 & RB Offset 24)



Date: 11.JUL.2017 11:49:07

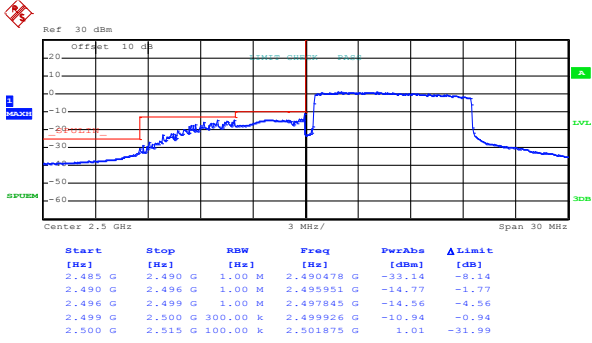
Lowest channel



Date: 11.JUL.2017 11:47:16

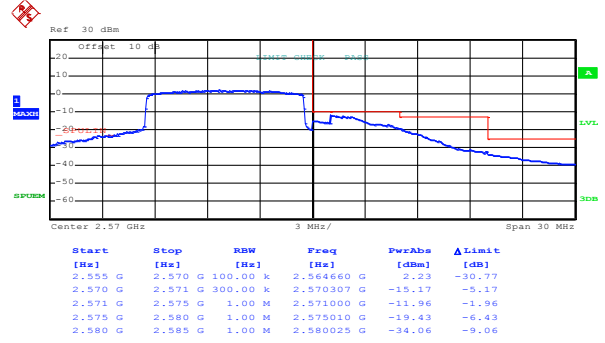
Highest channel

Test Mode: LTE band 7(QPSK RB Size 50 & RB Offset 0)



Date: 11.JUL.2017 11:50:57

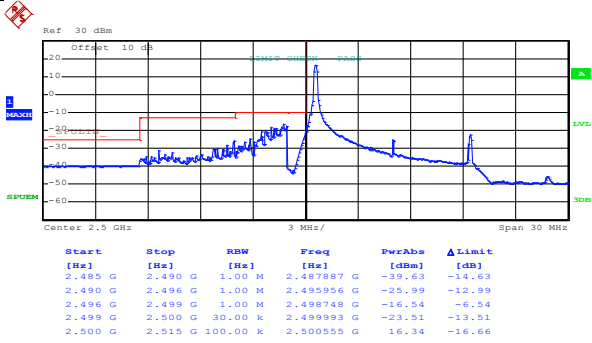
Lowest channel



Date: 11.JUL.2017 11:52:48

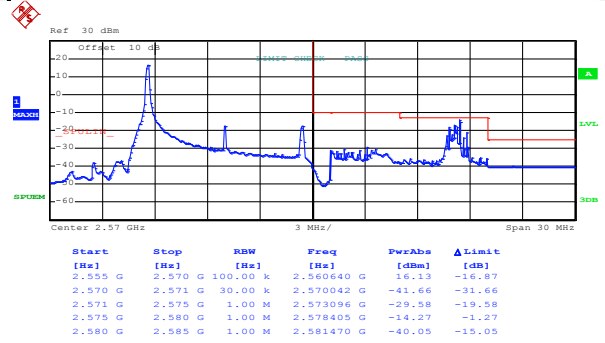
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 10:47:17

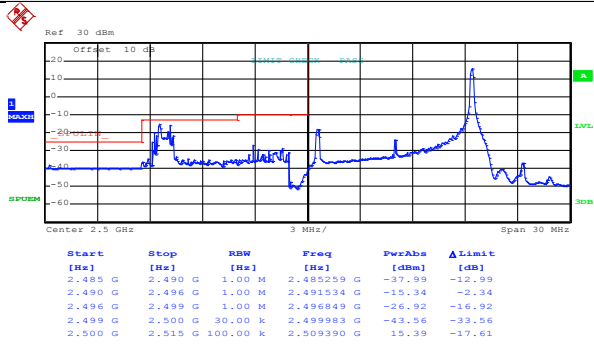
Lowest channel



Date: 11.JUL.2017 11:02:57

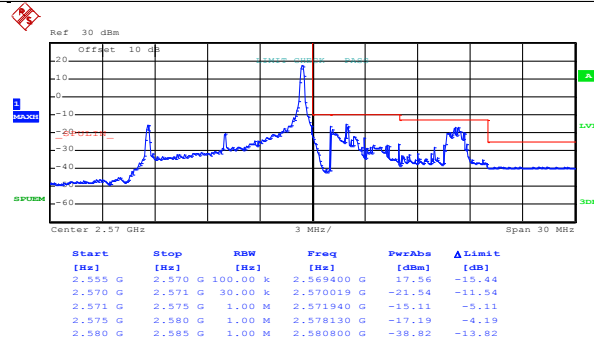
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 49)



Date: 11.JUL.2017 10:47:56

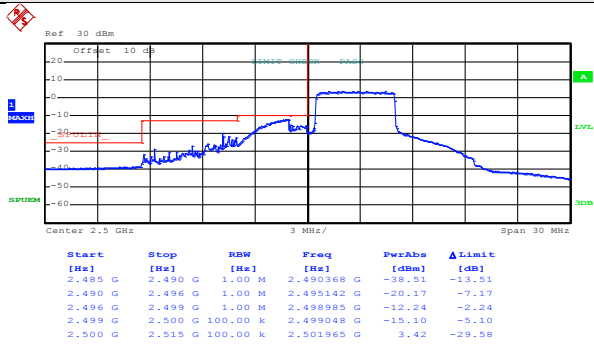
Lowest channel



Date: 11.JUL.2017 12:50:03

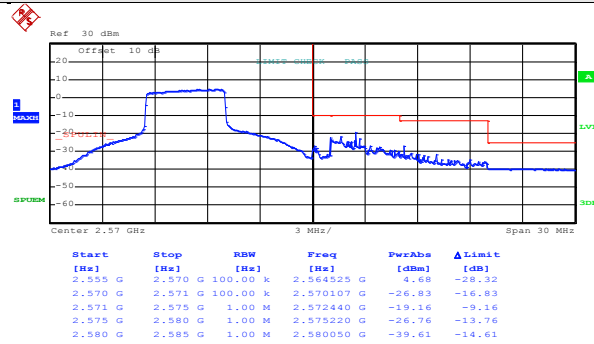
Highest channel

Test Mode: LTE band 7(16QAM RB Size 25 & RB Offset 0)



Date: 11.JUL.2017 11:48:50

Lowest channel

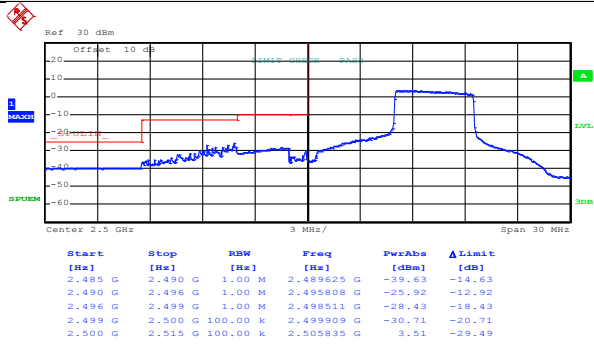


Date: 11.JUL.2017 11:45:58

Highest channel

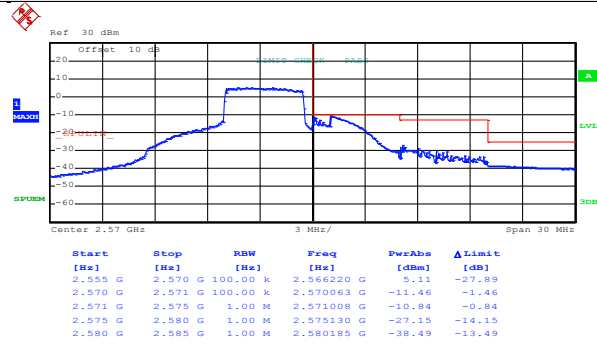


Test Mode: LTE band 7(16QAM RB Size 25 & RB Offset 24)



Date: 11.JUL.2017 11:49:20

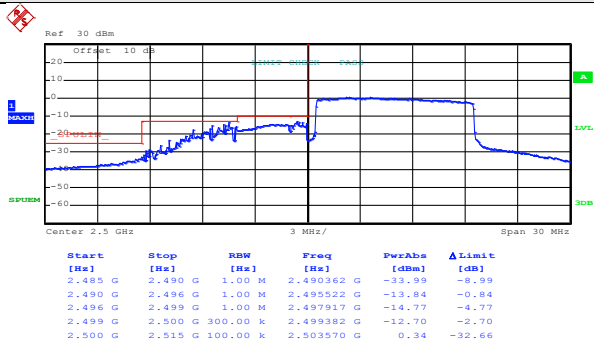
Lowest channel



Date: 11.JUL.2017 11:47:30

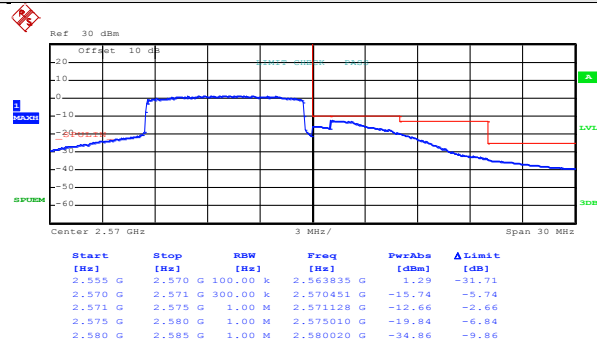
Highest channel

Test Mode: LTE band 7(16QAM RB Size 50 & RB Offset 0)



Date: 11.JUL.2017 11:51:14

Lowest channel

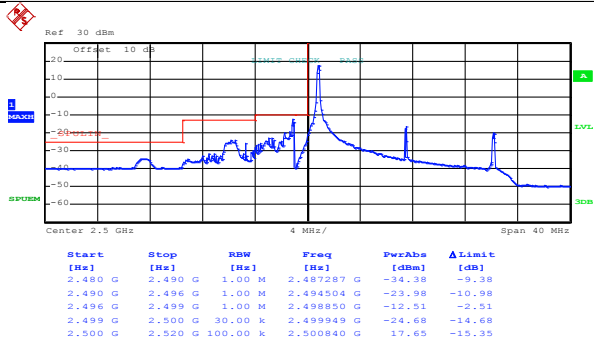


Date: 11.JUL.2017 11:53:01

Highest channel

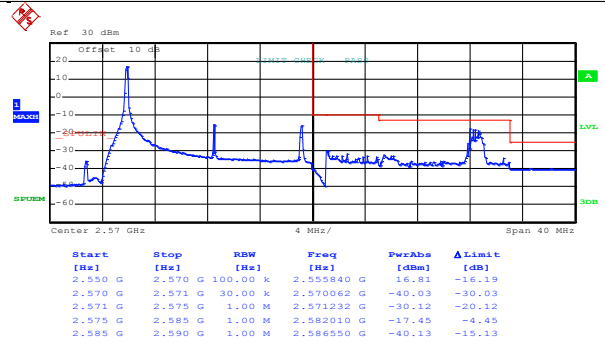
15MHz:

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 12:07:12

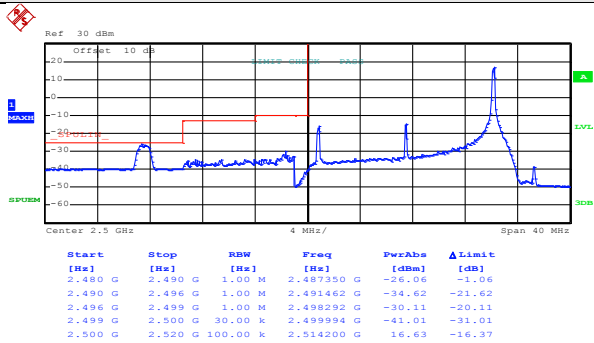
Lowest channel



Date: 11.JUL.2017 12:09:34

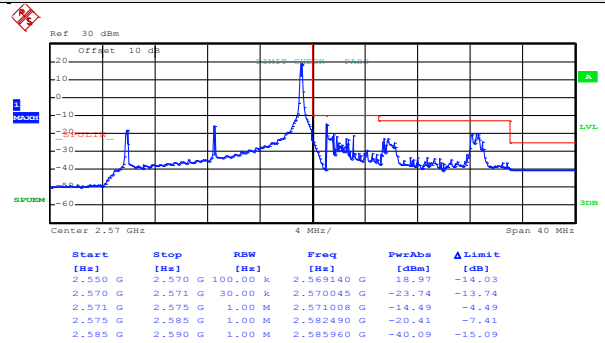
Highest channel

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 74)



Date: 11.JUL.2017 12:07:57

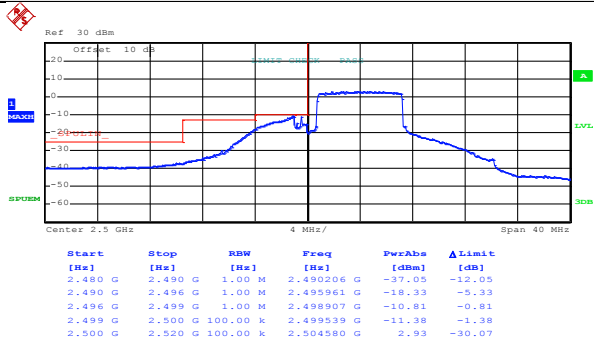
Lowest channel



Date: 11.JUL.2017 12:10:10

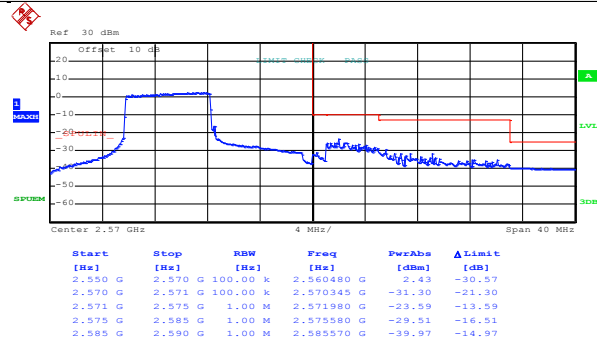
Highest channel

Test Mode: LTE band 7(QPSK RB Size 36 & RB Offset 0)



Date: 11.JUL.2017 12:04:16

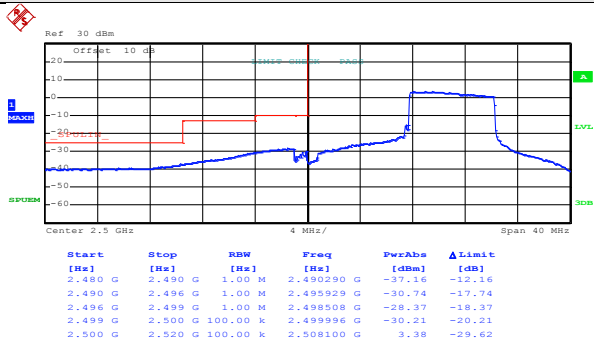
Lowest channel



Date: 11.JUL.2017 11:59:43

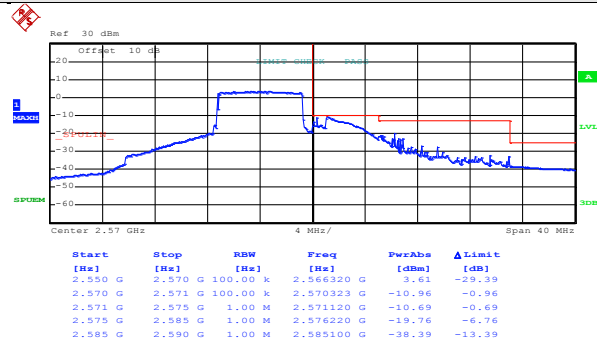
Highest channel

Test Mode: LTE band 7(QPSK RB Size 36 & RB Offset 37)



Date: 11.JUL.2017 12:04:57

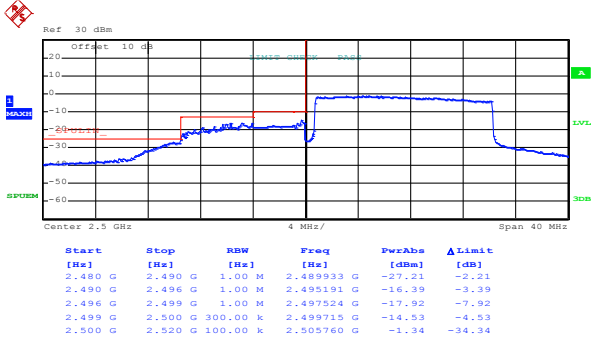
Lowest channel



Date: 11.JUL.2017 12:02:16

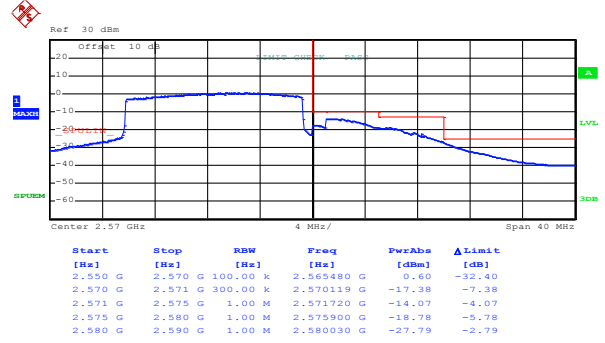
Highest channel

Test Mode: LTE band 7(QPSK RB Size 75 & RB Offset 0)



Date: 11.JUL.2017 11:55:25

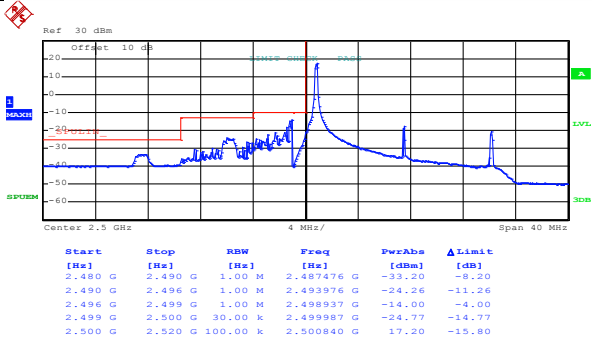
Lowest channel



Date: 11.JUL.2017 11:56:22

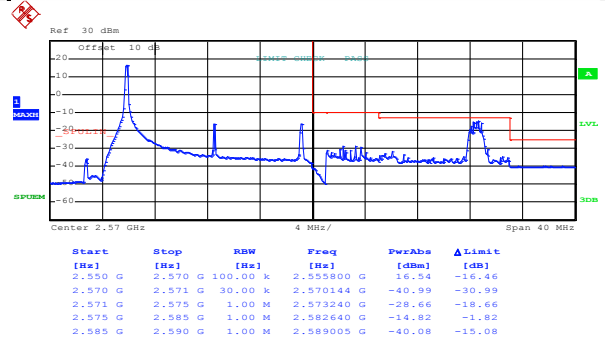
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 12:07:27

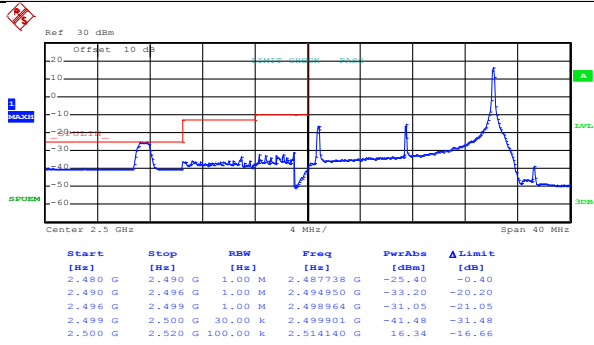
Lowest channel



Date: 11.JUL.2017 12:09:54

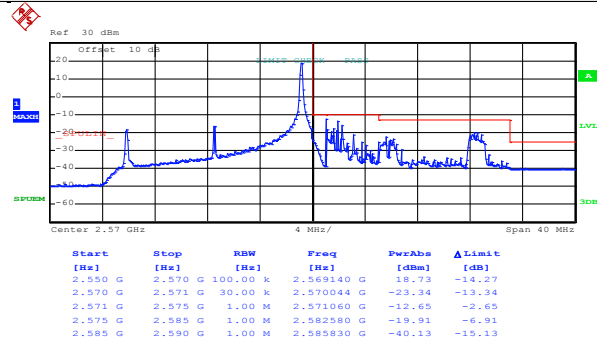
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 74)



Date: 11.JUL.2017 12:08:37

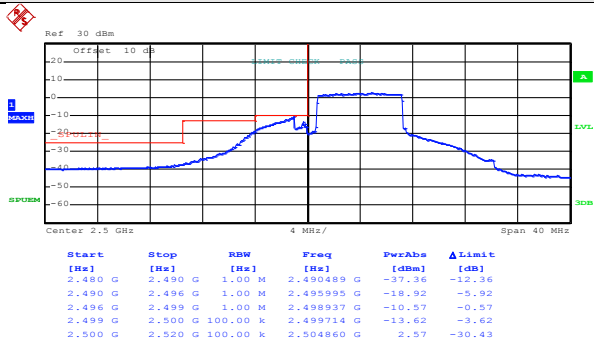
Lowest channel



Date: 11.JUL.2017 12:10:26

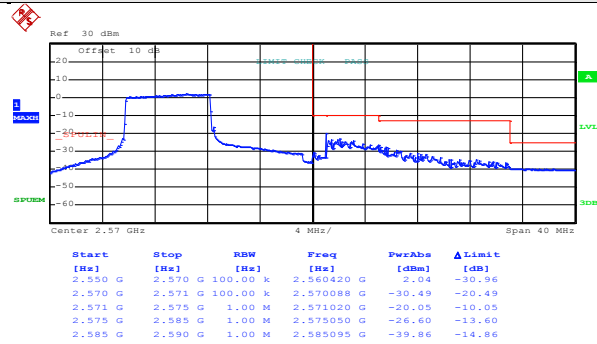
Highest channel

Test Mode: LTE band 7(16QAM RB Size 36 & RB Offset 0)



Date: 11.JUL.2017 12:04:36

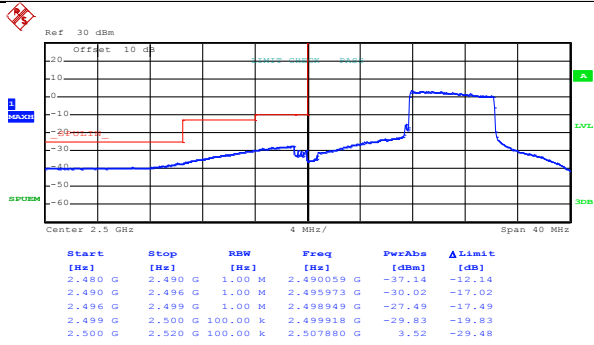
Lowest channel



Date: 11.JUL.2017 11:59:57

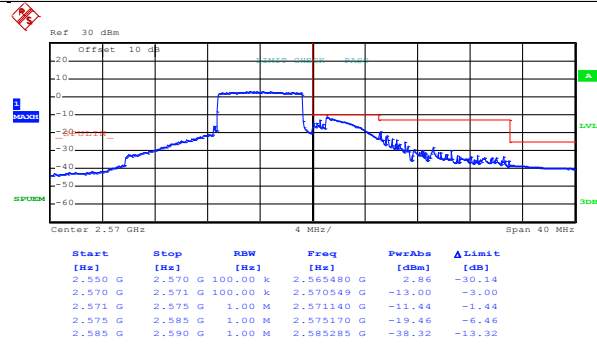
Highest channel

Test Mode: LTE band 7(16QAM RB Size 36 & RB Offset 37)



Date: 11.JUL.2017 12:05:12

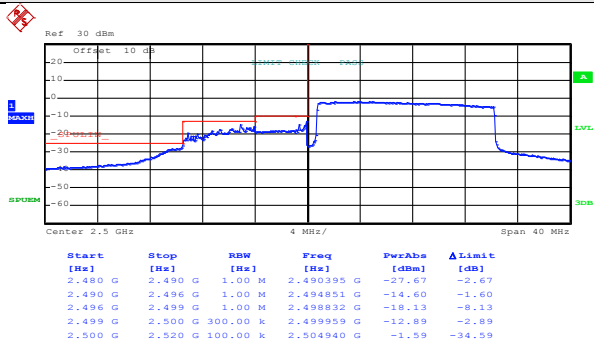
Lowest channel



Date: 11.JUL.2017 12:02:34

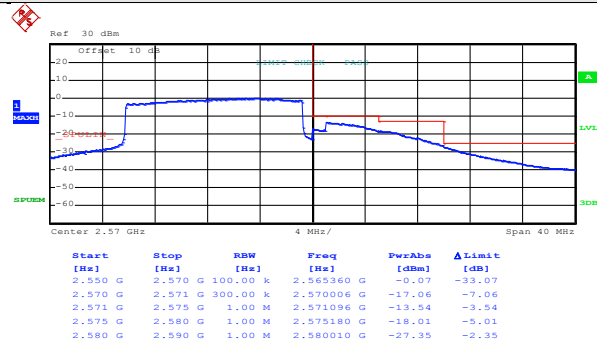
Highest channel

Test Mode: LTE band 7(16QAM RB Size 75 & RB Offset 0)



Date: 11.JUL.2017 11:55:40

Lowest channel

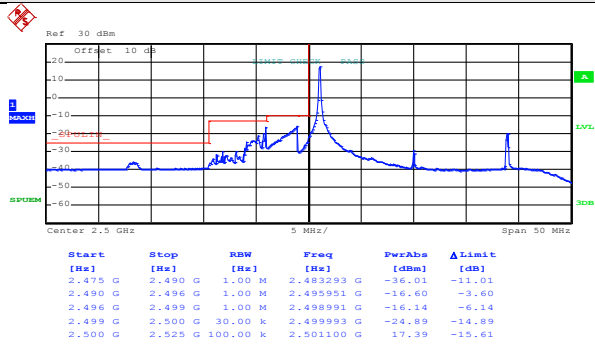


Date: 11.JUL.2017 11:56:37

Highest channel

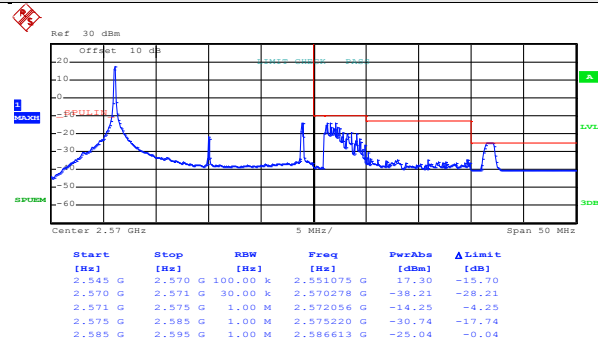
20MHz:

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 12:52:54

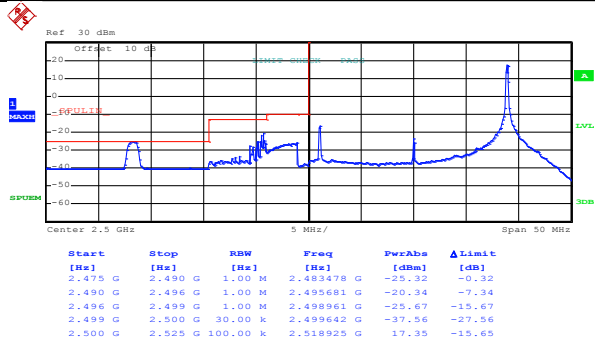
Lowest channel



Date: 11.JUL.2017 12:17:05

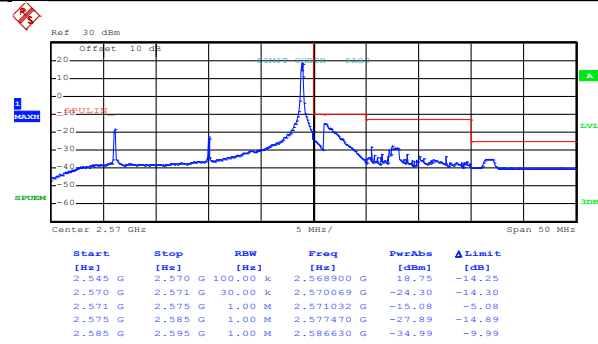
Highest channel

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 99)



Date: 11.JUL.2017 12:23:09

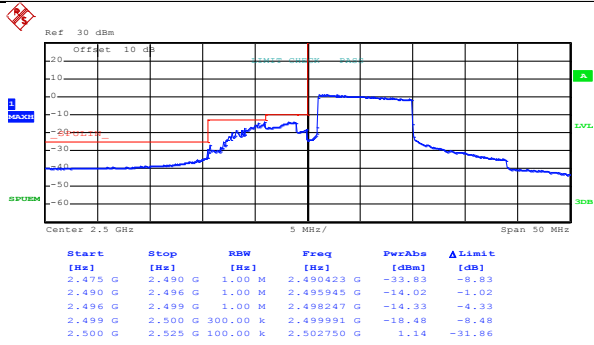
Lowest channel



Date: 11.JUL.2017 12:20:52

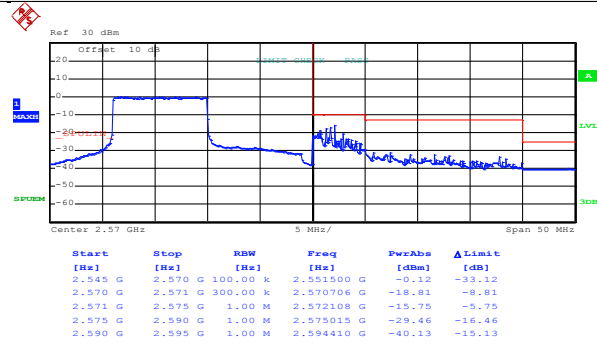
Highest channel

Test Mode: LTE band 7(QPSK RB Size 50 & RB Offset 0)



Date: 11.JUL.2017 12:27:06

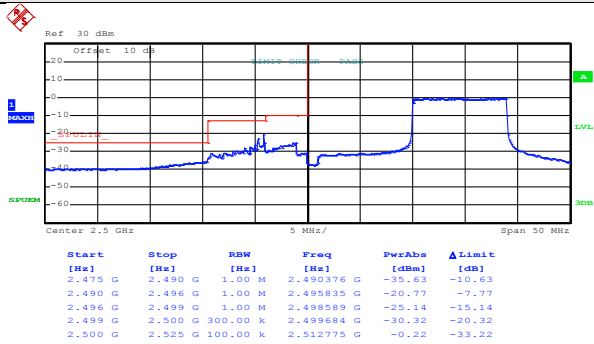
Lowest channel



Date: 11.JUL.2017 12:29:12

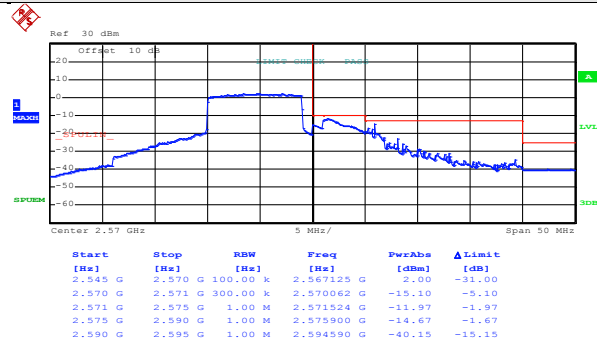
Highest channel

Test Mode: LTE band 7(QPSK RB Size 50 & RB Offset 49)



Date: 11.JUL.2017 12:27:42

Lowest channel

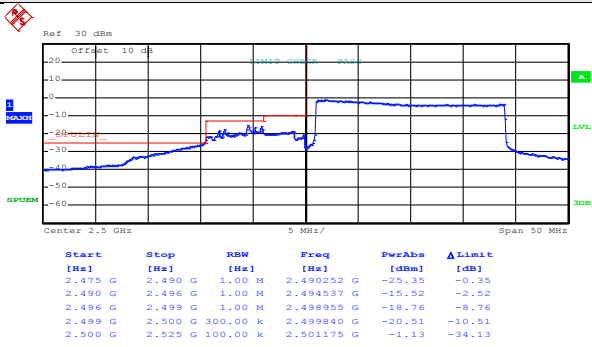


Date: 11.JUL.2017 12:30:10

Highest channel

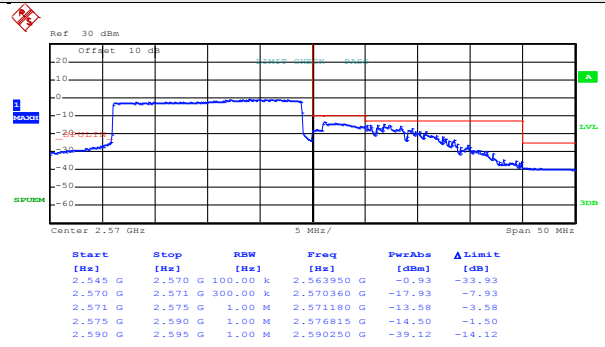


Test Mode: LTE band 7(QPSK RB Size 100 & RB Offset 0)



Date: 11.JUL.2017 12:28:17

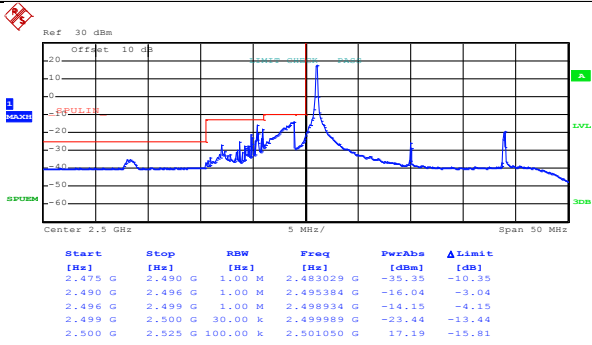
Lowest channel



Date: 11.JUL.2017 12:30:44

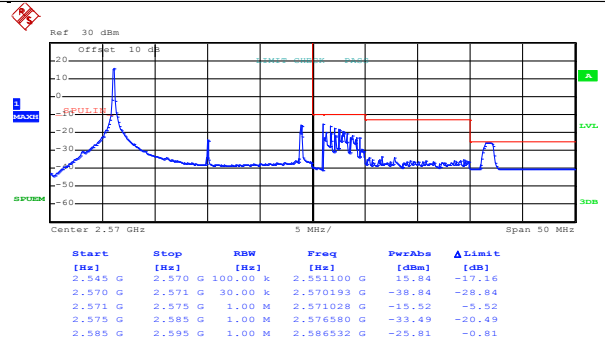
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 12:22:44

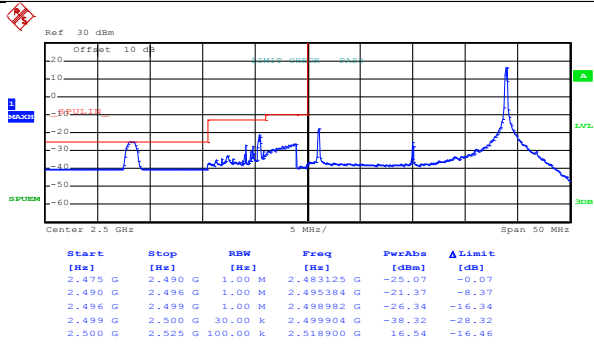
Lowest channel



Date: 11.JUL.2017 12:19:39

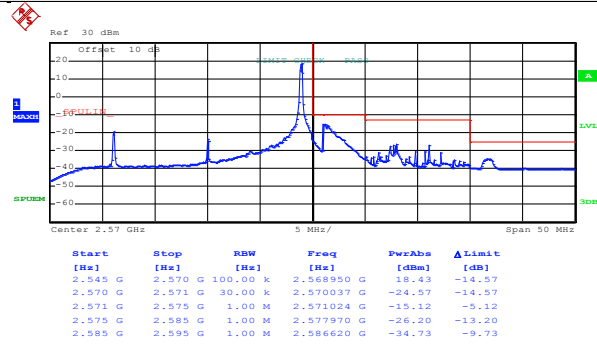
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 99)



Date: 11.JUL.2017 12:25:27

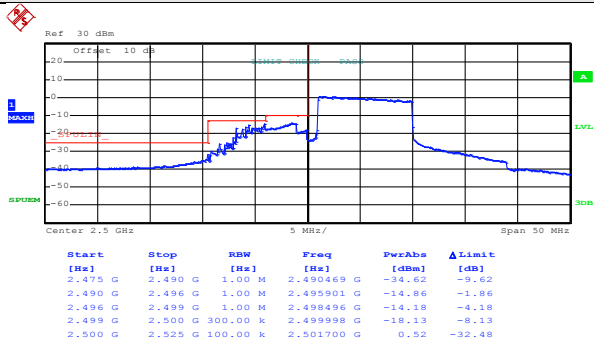
Lowest channel



Date: 11.JUL.2017 12:21:09

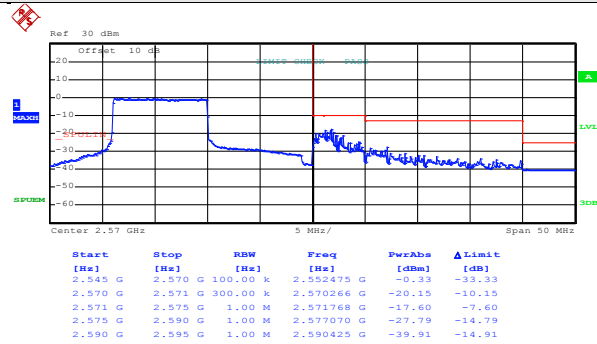
Highest channel

Test Mode: LTE band 7(16QAM RB Size 50 & RB Offset 0)



Date: 11.JUL.2017 12:27:22

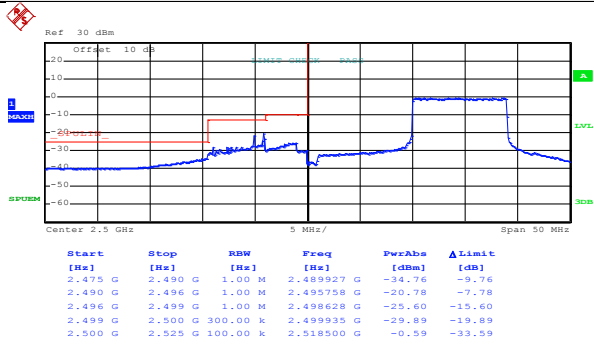
Lowest channel



Date: 11.JUL.2017 12:29:29

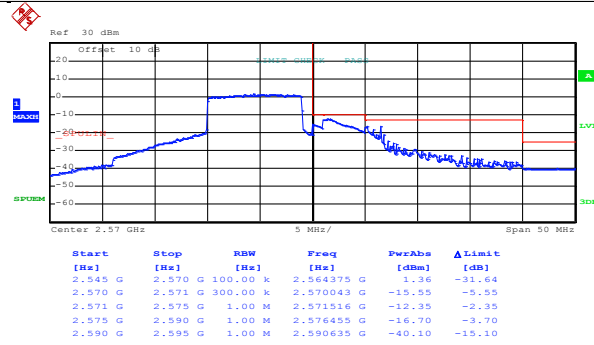
Highest channel

Test Mode: LTE band 7(16QAM RB Size 50 & RB Offset 49)



Date: 11.JUL.2017 12:28:01

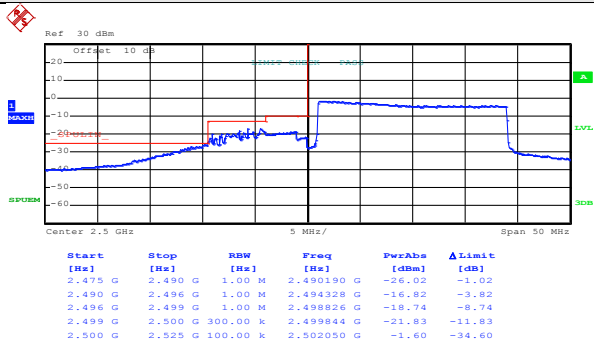
Lowest channel



Date: 11.JUL.2017 12:30:25

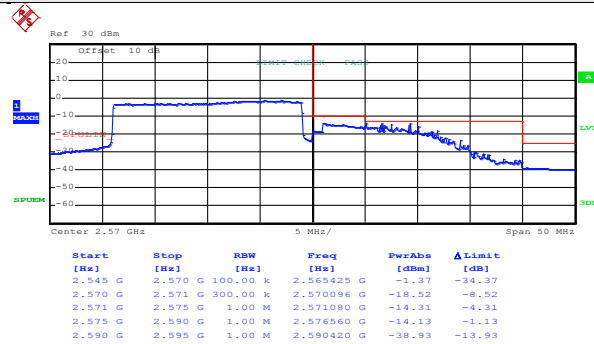
Highest channel

Test Mode: LTE band 7(16QAM RB Size 100 & RB Offset 0)



Date: 11.JUL.2017 12:28:27

Lowest channel

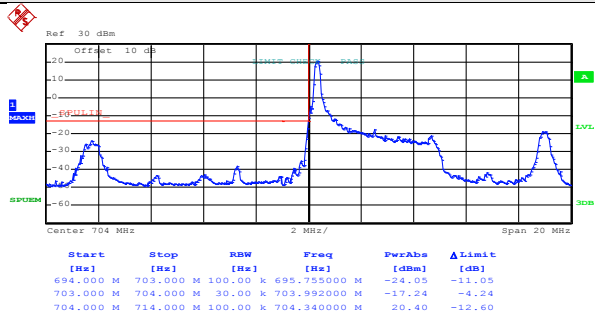


Date: 11.JUL.2017 12:30:59

Highest channel

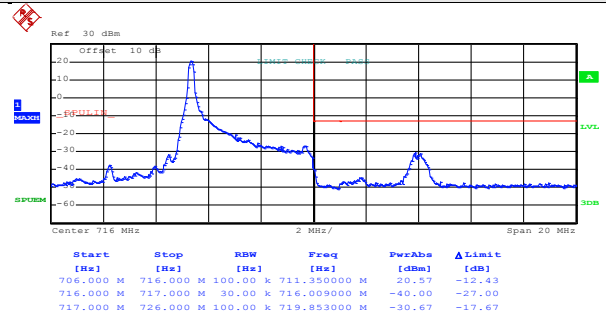
## LTE band 17 part:5MHz:

Test Mode: LTE band 17(QPSK RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 15:22:14

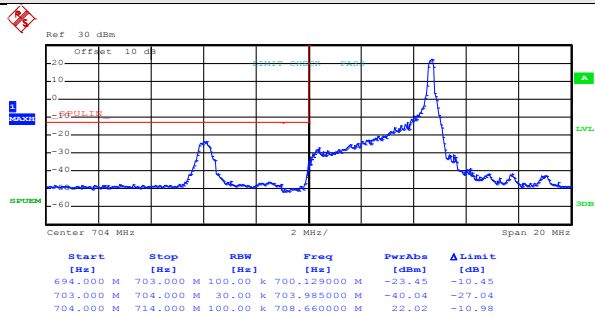
Lowest channel



Date: 11.JUL.2017 15:13:33

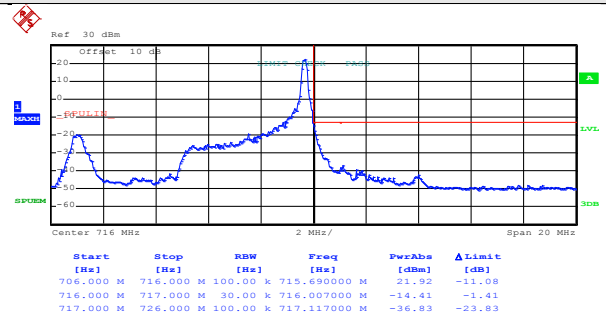
Highest channel

Test Mode: LTE band 17(QPSK RB Size 1 & RB Offset 24)



Date: 11.JUL.2017 15:17:19

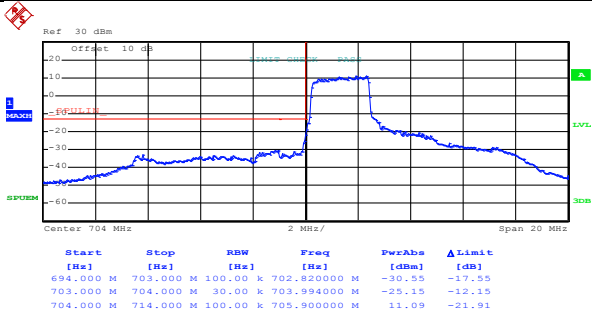
Lowest channel



Date: 11.JUL.2017 15:14:29

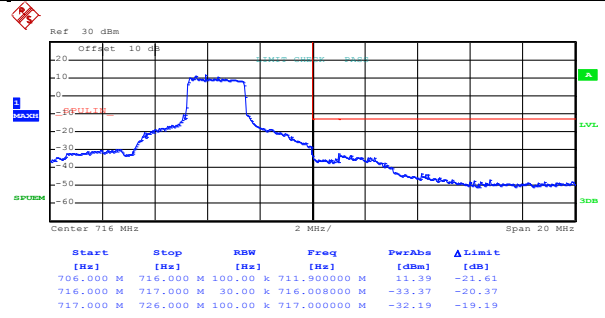
Highest channel

Test Mode: LTE band 17(QPSK RB Size 12 & RB Offset 0)



Date: 11.JUL.2017 15:17:47

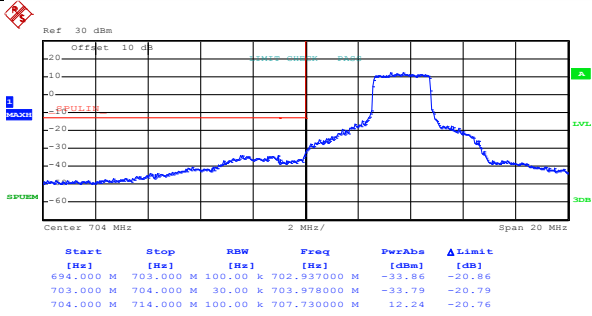
Lowest channel



Date: 11.JUL.2017 15:15:11

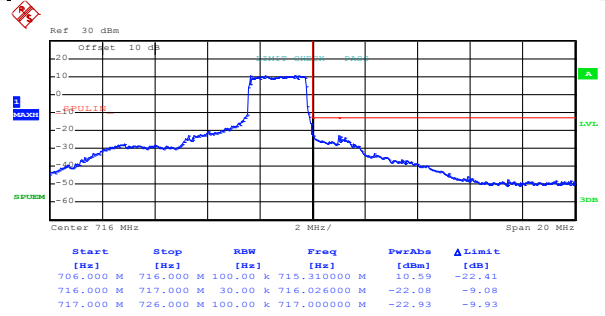
Highest channel

Test Mode: LTE band 17(QPSK RB Size 12 & RB Offset 11)



Date: 11.JUL.2017 15:18:21

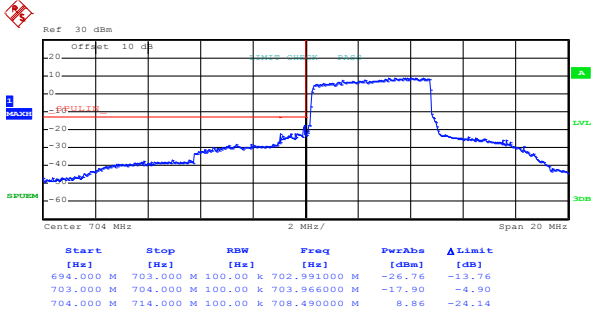
Lowest channel



Date: 11.JUL.2017 15:15:37

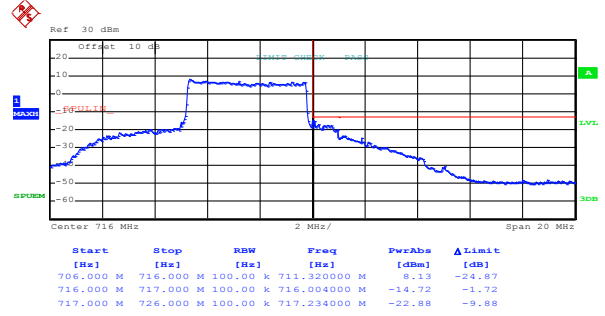
Highest channel

Test Mode: LTE band 17(QPSK RB Size 25 & RB Offset 0)



Date: 11.JUL.2017 15:23:11

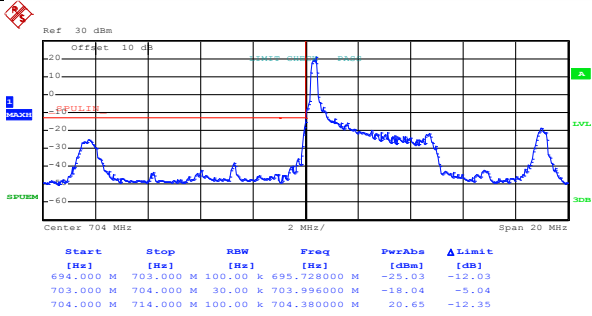
Lowest channel



Date: 11.JUL.2017 15:24:02

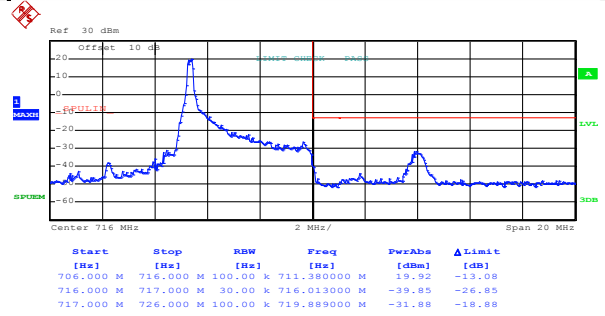
Highest channel

Test Mode: LTE band 17(16QAM RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 15:17:06

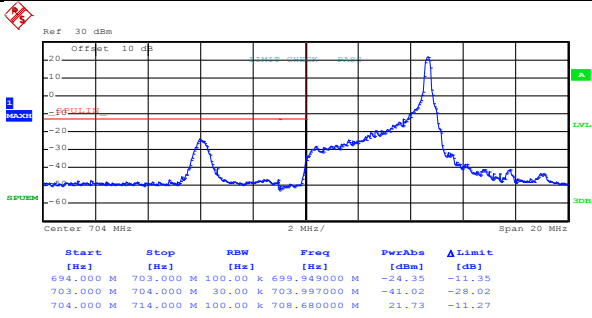
Lowest channel



Date: 11.JUL.2017 15:13:44

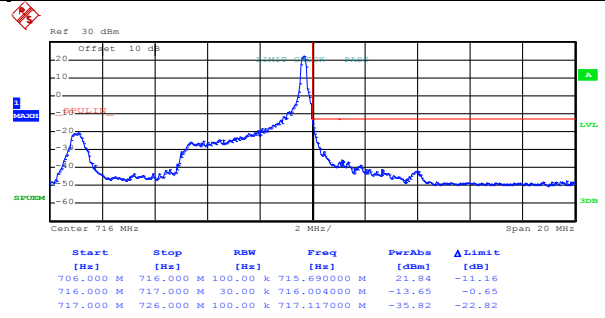
Highest channel

Test Mode: LTE band 17(16QAM RB Size 1 & RB Offset 24)



Date: 11.JUL.2017 15:17:31

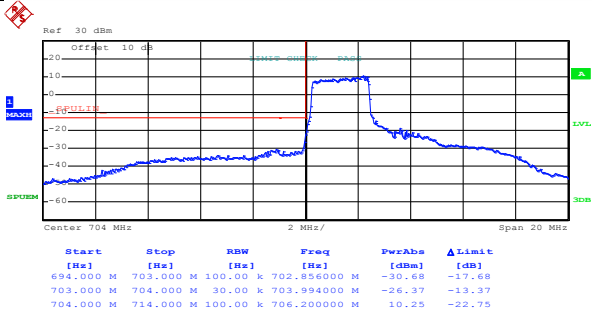
Lowest channel



Date: 11.JUL.2017 15:14:42

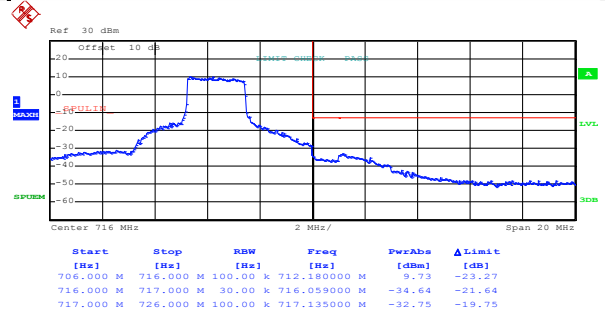
Highest channel

Test Mode: LTE band 17(16QAM RB Size 12 & RB Offset 0)



Date: 11.JUL.2017 15:17:57

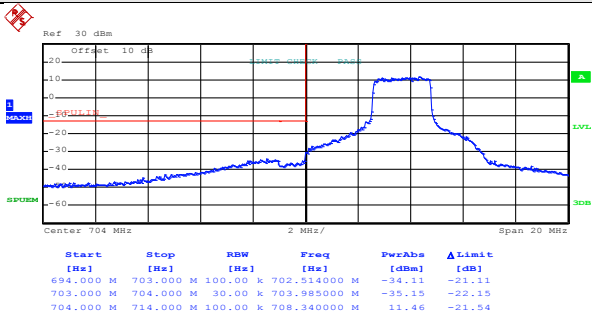
Lowest channel



Date: 11.JUL.2017 15:15:21

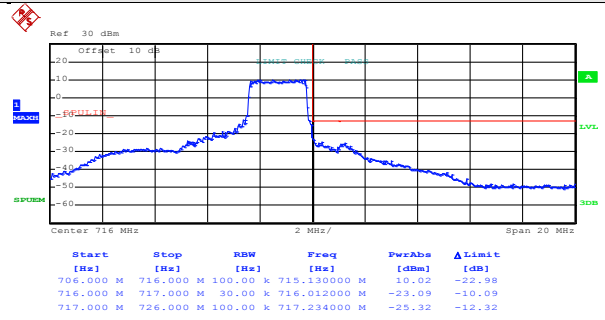
Highest channel

Test Mode: LTE band 17(16QAM RB Size 12 & RB Offset 11)



Date: 11.JUL.2017 15:18:33

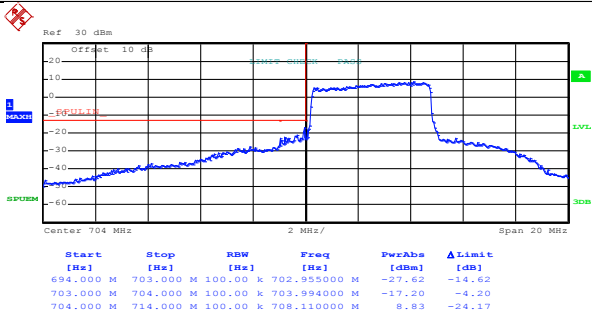
Lowest channel



Date: 11.JUL.2017 15:15:49

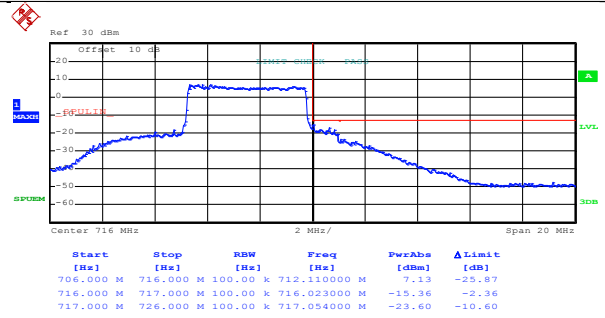
Highest channel

Test Mode: LTE band 17(16QAM RB Size 25 & RB Offset 0)



Date: 11.JUL.2017 15:23:20

Lowest channel



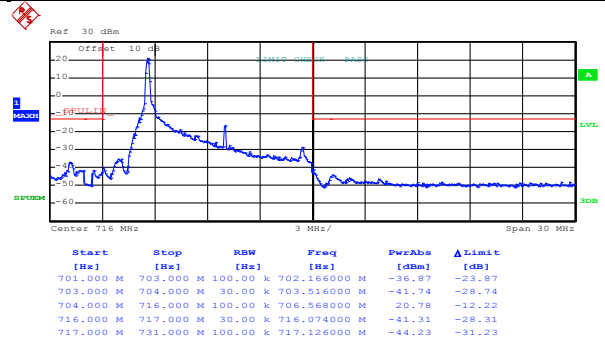
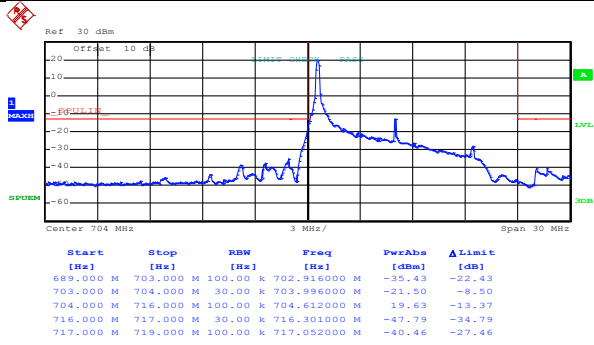
Date: 11.JUL.2017 15:24:11

Highest channel



10MHz:

Test Mode: LTE band 17(QPSK RB Size 1 & RB Offset 0)



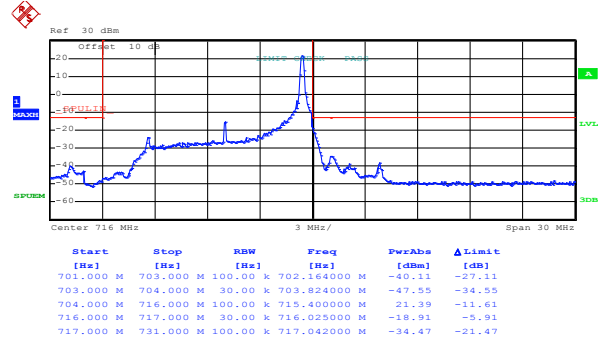
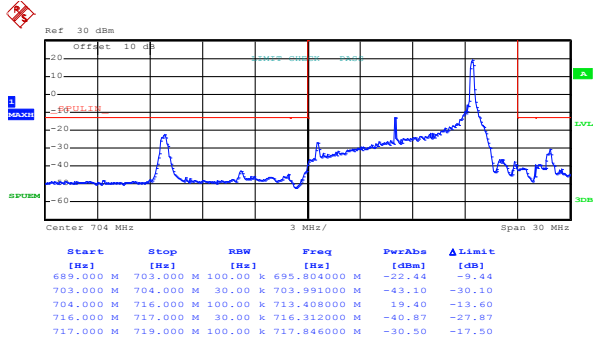
Date: 11.JUL.2017 15:08:18

Date: 11.JUL.2017 15:10:36

Lowest channel

Highest channel

Test Mode: LTE band 17(QPSK RB Size 1 & RB Offset 49)



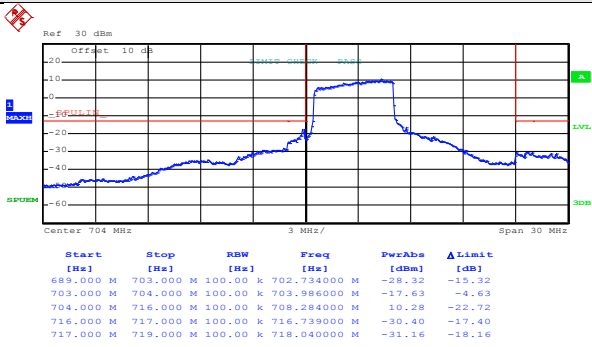
Date: 11.JUL.2017 15:08:39

Date: 11.JUL.2017 15:10:55

Lowest channel

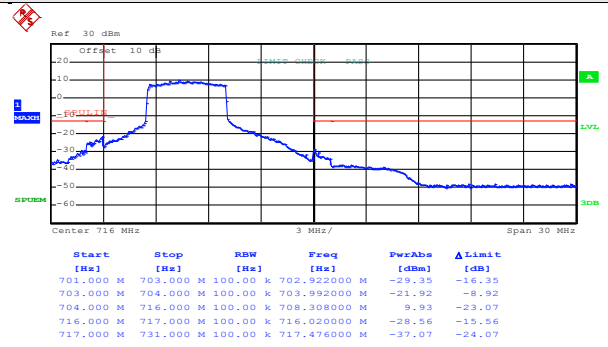
Highest channel

Test Mode: LTE band 17(QPSK RB Size 25 & RB Offset 0)



Date: 11.JUL.2017 15:26:55

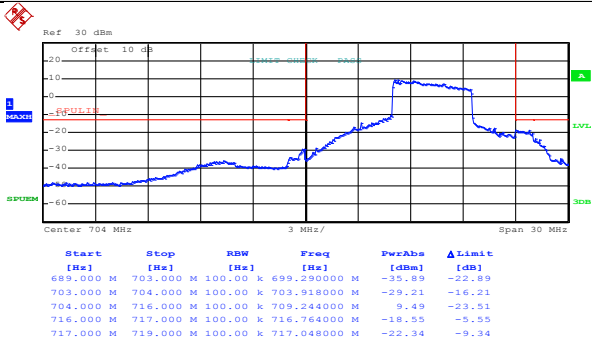
Lowest channel



Date: 11.JUL.2017 15:25:18

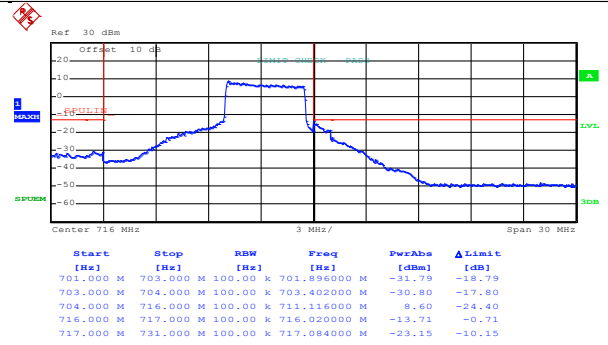
Highest channel

Test Mode: LTE band 17(QPSK RB Size 25 & RB Offset 24)



Date: 11.JUL.2017 15:27:21

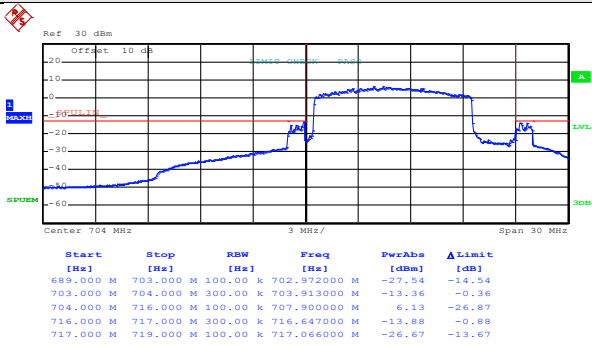
Lowest channel



Date: 11.JUL.2017 15:25:47

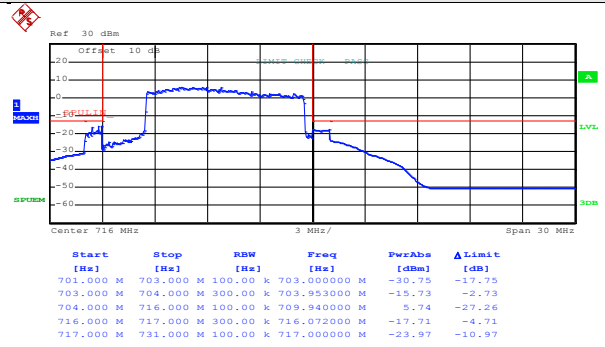
Highest channel

Test Mode: LTE band 17(QPSK RB Size 50 & RB Offset 0)



Date: 11.JUL.2017 15:30:14

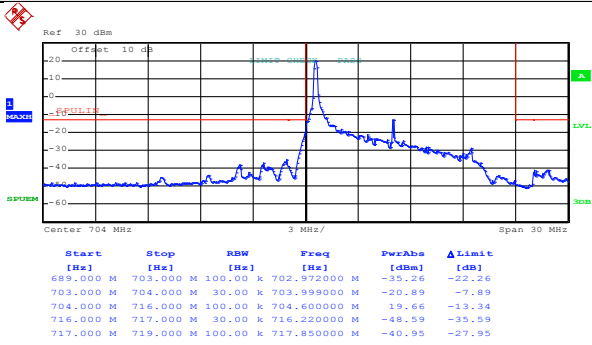
Lowest channel



Date: 11.JUL.2017 15:32:12

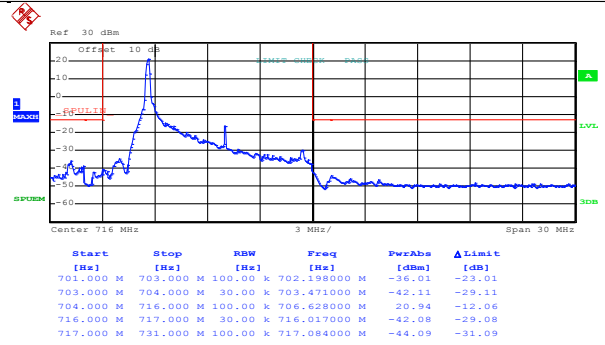
Highest channel

Test Mode: LTE band 17(16QAM RB Size 1 & RB Offset 0)



Date: 11.JUL.2017 15:09:03

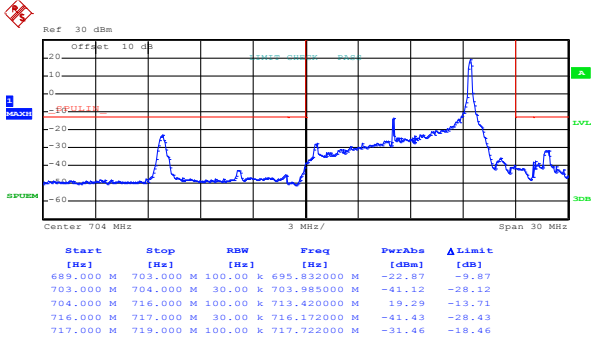
Lowest channel



Date: 11.JUL.2017 15:10:26

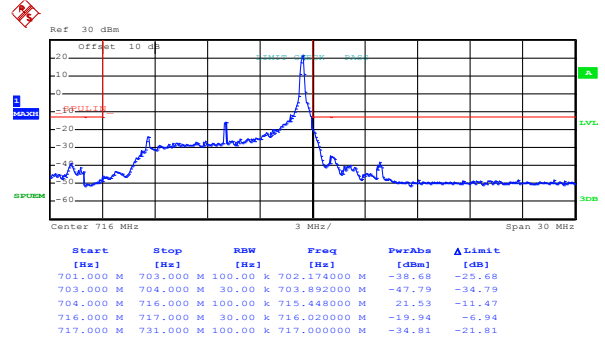
Highest channel

Test Mode: LTE band 17(16QAM RB Size 1 & RB Offset 49)



Date: 11.JUL.2017 15:09:19

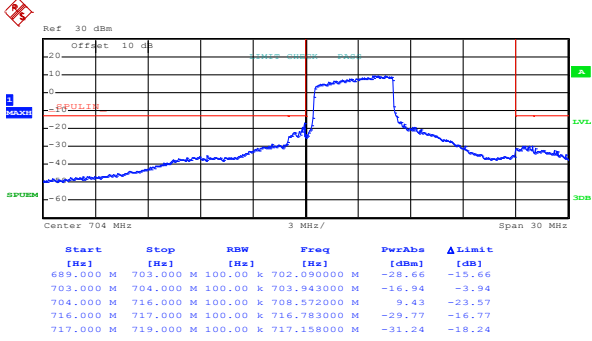
Lowest channel



Date: 11.JUL.2017 15:11:06

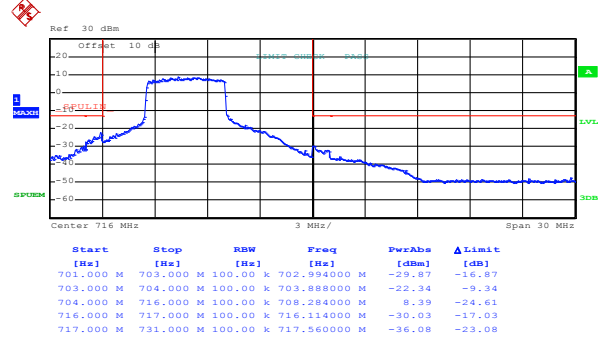
Highest channel

Test Mode: LTE band 17(16QAM RB Size 25 & RB Offset 0)



Date: 11.JUL.2017 15:27:07

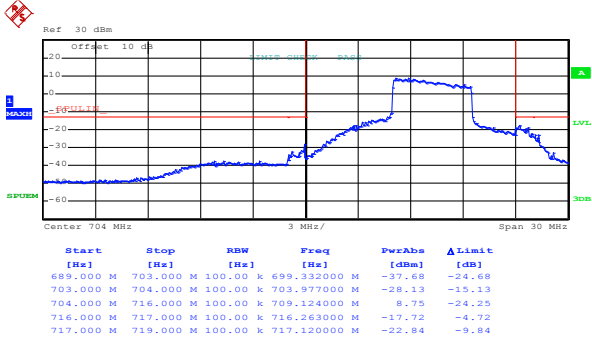
Lowest channel



Date: 11.JUL.2017 15:25:31

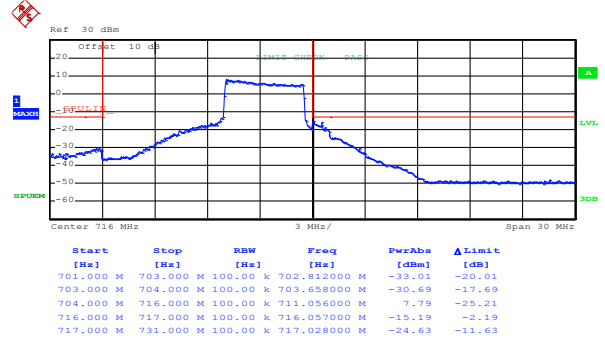
Highest channel

Test Mode: LTE band 17(16QAM RB Size 25 & RB Offset 24)



Date: 11.JUL.2017 15:27:32

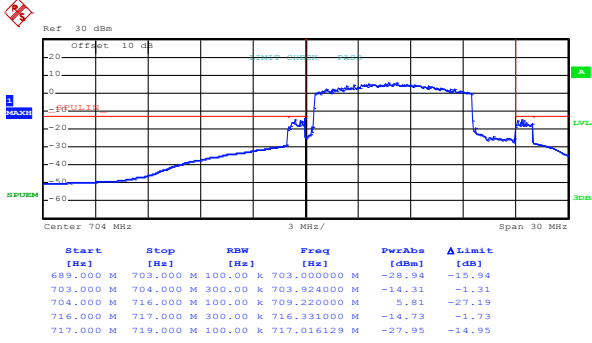
Lowest channel



Date: 11.JUL.2017 15:25:59

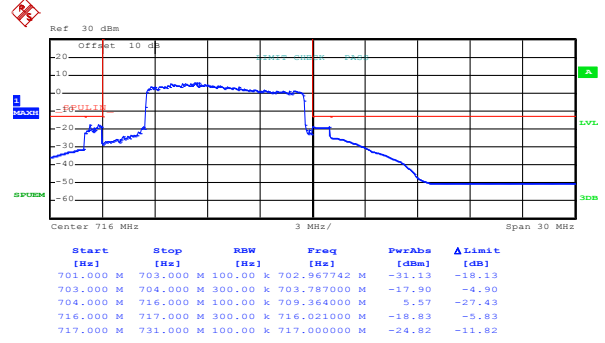
Highest channel

Test Mode: LTE band 17(16QAM RB Size 50 & RB Offset 0)



Date: 11.JUL.2017 15:31:08

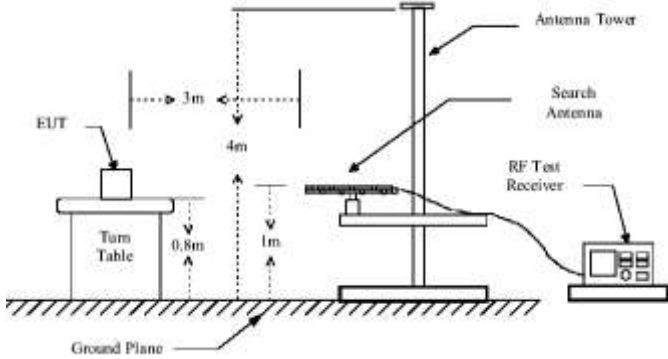
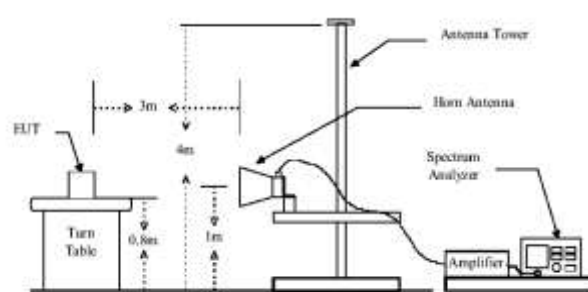
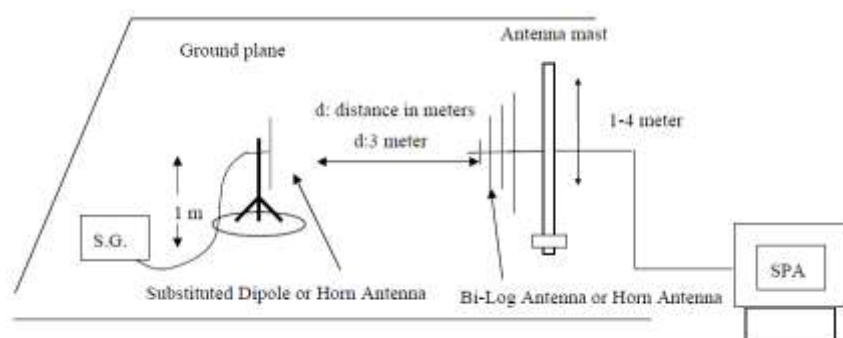
Lowest channel



Date: 11.JUL.2017 15:32:28

Highest channel

## 6.10 ERP, EIRP Measurement

Test Requirement:	24.232 (c), part 27.50(c), part 27.50(d), part 27.50 (h)
Test Method:	FCC part2.1046
Limit:	LTE Band 2: 2W EIRP LTE Band 4: 1W EIRP LTE Band 7: 2W EIRP LTE Band 17: 3W EIRP
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 

<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.</li> <li>3. ERP in frequency band below 1GHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:  <math display="block">\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}</math> </li> <li>4. EIRP in frequency band above 1GHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:  <math display="block">\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}</math> </li> <li>5. The worse case was relating to the conducted output power.</li> </ol>
<p>Test Instruments:</p>	<p>Refer to section 5.8 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Passed</p>

Measurement Data (worst case):

LTE band 2 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	13.50	33.00	Pass
					H	10.33		
1850.70	18607	16QAM	1.4	H	V	13.97		
					H	10.44		
1.4MHz(RB size 3 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	13.57	33.00	Pass
					H	9.91		
1850.70	18607	16QAM	1.4	H	V	13.75		
					H	10.25		
1.4MHz(RB size 6 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	12.63	33.00	Pass
					H	9.02		
1850.70	18607	16QAM	1.4	H	V	12.84		
					H	9.18		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	13.62	33.00	Pass
					H	10.57		
1880.00	18900	16QAM	1.4	H	V	13.75		
					H	10.29		
1.4MHz(RB size 3 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	13.86	33.00	Pass
					H	10.28		
1880.00	18900	16QAM	1.4	H	V	13.78		
					H	10.57		
1.4MHz(RB size 6 & RB offset 0)								
1880.00	18900	QPSK	1.40	H	V	12.77	33.00	Pass
					H	9.86		
1880.00	18900	16QAM	1.40	H	V	12.73		
					H	9.53		



### Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	13.77	33.00	Pass
					H	10.45		
1909.30	19193	16QAM	1.4	H	V	14.19		
					H	10.68		
1.4MHz(RB size 3 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	13.92	33.00	Pass
					H	10.21		
1909.30	19193	16QAM	1.4	H	V	13.54		
					H	10.42		
1.4MHz(RB size 6 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	12.42	33.00	Pass
					H	9.69		
1909.30	19193	16QAM	1.4	H	V	12.62		
					H	9.47		

### Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	13.52	33.00	Pass
					H	10.42		
1860.00	18700	16QAM	20	H	V	13.67		
					H	10.58		
20MHz(RB size 50 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	13.66	33.00	Pass
					H	10.29		
1860.00	18700	16QAM	20	H	V	13.35		
					H	10.46		
20MHz(RB size 100 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	12.25	33.00	Pass
					H	9.98		
1860.00	18700	16QAM	20	H	V	12.57		
					H	9.86		

### Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	13.89	33.00	Pass
					H	10.27		
1880.00	18900	16QAM	20	H	V	13.75		
					H	10.64		
20MHz(RB size 50 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	13.54	33.00	Pass
					H	10.33		
1880.00	18900	16QAM	20	H	V	13.48		
					H	10.22		
20MHz(RB size 100 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	12.69	33.00	Pass
					H	9.88		
1880.00	18900	16QAM	20	H	V	12.52		
					H	9.64		

### Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	13.82	33.00	Pass
					H	10.33		
1900.00	19100	16QAM	20	H	V	13.86		
					H	10.57		
20MHz(RB size 50 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	13.65	33.00	Pass
					H	10.18		
1900.00	19100	16QAM	20	H	V	13.45		
					H	10.27		
20MHz(RB size 100 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	12.42	33.00	Pass
					H	9.69		
1900.00	19100	16QAM	20	H	V	12.35		
					H	9.82		

LTE band 4 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	12.67	30.00	Pass
					H	7.44		
1710.70	19957	16QAM	1.4	H	V	12.72		
					H	7.29		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	14.14	30.00	Pass
					H	7.95		
1710.70	19957	16QAM	1.4	H	V	12.89		
					H	7.30		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	11.60	30.00	Pass
					H	6.95		
1710.70	19957	16QAM	1.4	H	V	11.89		
					H	6.40		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	12.58	30.00	Pass
					H	7.96		
1732.50	20175	16QAM	1.4	H	V	12.83		
					H	7.86		
1.4MHz(RB size 3 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	14.36	30.00	Pass
					H	7.45		
1732.50	20175	16QAM	1.4	H	V	12.78		
					H	7.58		
1.4MHz(RB size 6 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	11.85	30.00	Pass
					H	6.92		
1732.50	20175	16QAM	1.4	H	V	11.73		
					H	6.49		

### Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	12.75	30.00	Pass
					H	7.88		
1754.30	20393	16QAM	1.4	H	V	12.68		
					H	7.52		
1.4MHz(RB size 3 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	13.98	30.00	Pass
					H	7.68		
1754.30	20393	16QAM	1.4	H	V	12.79		
					H	7.43		
1.4MHz(RB size 6 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	11.55	30.00	Pass
					H	6.39		
1754.30	20393	16QAM	1.4	H	V	11.74		
					H	6.89		

### Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	12.73	30.00	Pass
					H	7.62		
1720.00	20050	16QAM	20	H	V	12.68		
					H	7.51		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	14.25	30.00	Pass
					H	7.86		
1720.00	20050	16QAM	20	H	V	12.38		
					H	7.42		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	11.56	30.00	Pass
					H	6.59		
1720.00	20050	16QAM	20	H	V	11.78		
					H	6.39		

### Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	12.65	30.00	Pass
					H	7.83		
1732.50	20175	16QAM	20	H	V	12.74		
					H	7.81		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	14.36	30.00	Pass
					H	7.52		
1732.50	20175	16QAM	20	H	V	12.89		
					H	7.41		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	11.63	30.00	Pass
					H	6.87		
1732.50	20175	16QAM	20	H	V	11.51		
					H	6.36		

### High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	12.37	30.00	Pass
					H	7.58		
1745.00	20300	16QAM	20	H	V	12.49		
					H	7.37		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	14.27	30.00	Pass
					H	7.19		
1745.00	20300	16QAM	20	H	V	12.59		
					H	7.33		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	11.56	30.00	Pass
					H	6.43		
1745.00	20300	16QAM	20	H	V	11.49		
					H	6.70		

LTE band 7 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2502.50	20775	QPSK	5	H	V	14.84	33.00	Pass
					H	13.71		
2502.50	20775	16QAM	5	H	V	13.95		
					H	13.59		
5MHz(RB size 12& RB offset 0)								
2502.50	20775	QPSK	5	H	V	11.59	33.00	Pass
					H	10.39		
2502.50	20775	16QAM	5	H	V	12.08		
					H	11.41		
5MHz(RB size 25& RB offset 0)								
2502.50	20775	QPSK	5	H	V	9.92	33.00	Pass
					H	9.12		
2502.50	20775	16QAM	5	H	V	11.15		
					H	9.80		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2535.00	21100	QPSK	5	H	V	14.57	33.00	Pass
					H	13.65		
2535.00	21100	16QAM	5	H	V	13.88		
					H	13.52		
5MHz(RB size 12& RB offset 0)								
2535.00	21100	QPSK	5	H	V	11.75	33.00	Pass
					H	10.53		
2535.00	21100	16QAM	5	H	V	12.12		
					H	11.58		
5MHz(RB size 25& RB offset 0)								
2535.00	21100	QPSK	5	H	V	10.02	33.00	Pass
					H	9.53		
2535.00	21100	16QAM	5	H	V	11.10		
					H	9.63		

### Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2567.50	21425	QPSK	5	H	V	14.25	33.00	Pass
					H	13.75		
2567.50	21425	16QAM	5	H	V	13.92		
					H	13.61		
5MHz(RB size 12& RB offset 0)								
2567.50	21425	QPSK	5	H	V	11.86	33.00	Pass
					H	10.45		
2567.50	21425	16QAM	5	H	V	11.96		
					H	11.27		
5MHz(RB size 25& RB offset 0)								
2567.50	21425	QPSK	5	H	V	10.21	33.00	Pass
					H	9.42		
2567.50	21425	16QAM	5	H	V	11.03		
					H	9.45		

### Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	14.15	33.00	Pass
					H	13.68		
2510.00	20850	16QAM	20	H	V	13.97		
					H	13.52		
20MHz(RB size 50 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	11.59	33.00	Pass
					H	10.65		
2510.00	20850	16QAM	20	H	V	11.83		
					H	11.23		
20MHz(RB size 100 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	10.11	33.00	Pass
					H	9.26		
2510.00	20850	16QAM	20	H	V	10.98		
					H	9.36		

### Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	14.05	33.00	Pass
					H	13.85		
2535.00	21100	16QAM	20	H	V	13.78		
					H	13.36		
20MHz(RB size 50 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	11.74	33.00	Pass
					H	10.46		
2535.00	21100	16QAM	20	H	V	11.81		
					H	11.16		
20MHz(RB size 100 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	10.05	33.00	Pass
					H	9.42		
2535.00	21100	16QAM	20	H	V	10.92		
					H	9.53		

### High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	14.12	33.00	Pass
					H	13.75		
2560.00	21350	16QAM	20	H	V	13.53		
					H	13.25		
20MHz(RB size 50 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	11.85	33.00	Pass
					H	10.63		
2560.00	21350	16QAM	20	H	V	11.78		
					H	11.21		
20MHz(RB size 100 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	10.13	33.00	Pass
					H	9.65		
2560.00	21350	16QAM	20	H	V	10.96		
					H	9.46		



**LTE band 17 part  
Lowest channel**

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
706.50	23755	QPSK	5	H	V	7.72	34.77	Pass
					H	11.59		
706.50	23755	16QAM	5	H	V	7.52		
					H	11.88		
5MHz(RB size 12 & RB offset 0)								
706.50	23755	QPSK	5	H	V	4.07	34.77	Pass
					H	8.66		
706.50	23755	16QAM	5	H	V	4.79		
					H	8.94		
5MHz(RB size 25 & RB offset 0)								
706.50	23755	QPSK	5	H	V	2.00	34.77	Pass
					H	6.59		
706.50	23755	16QAM	5	H	V	3.27		
					H	7.93		

**Middle channel**

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	5	H	V	7.83	34.77	Pass
					H	11.56		
710.00	23790	16QAM	5	H	V	7.43		
					H	11.87		
5MHz(RB size 12 & RB offset 0)								
710.00	23790	QPSK	5	H	V	4.35	34.77	Pass
					H	8.87		
710.00	23790	16QAM	5	H	V	4.96		
					H	9.15		
5MHz(RB size 25 & RB offset 0)								
710.00	23790	QPSK	5	H	V	2.42	34.77	Pass
					H	6.53		
710.00	23790	16QAM	5	H	V	3.65		
					H	7.96		

### Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
713.50	23825	QPSK	5	H	V	7.72	34.77	Pass
					H	11.76		
713.50	23825	16QAM	5	H	V	7.66		
					H	11.89		
5MHz(RB size 12 & RB offset 0)								
713.50	23825	QPSK	5	H	V	4.24	34.77	Pass
					H	8.69		
713.50	23825	16QAM	5	H	V	4.92		
					H	9.14		
5MHz(RB size 25 & RB offset 0)								
713.50	23825	QPSK	5	H	V	2.19	34.77	Pass
					H	6.86		
713.50	23825	16QAM	5	H	V	3.75		
					H	7.89		

### Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
709.00	23780	QPSK	10	H	V	7.52	34.77	Pass
					H	11.86		
709.00	23780	16QAM	10	H	V	7.69		
					H	11.93		
10MHz(RB size 25& RB offset 0)								
709.00	23780	QPSK	10	H	V	4.58	34.77	Pass
					H	8.87		
709.00	23780	16QAM	10	H	V	4.86		
					H	9.03		
10MHz(RB size 50& RB offset 0)								
709.00	23780	QPSK	10	H	V	2.15	34.77	Pass
					H	6.92		
709.00	23780	16QAM	10	H	V	3.78		
					H	8.05		

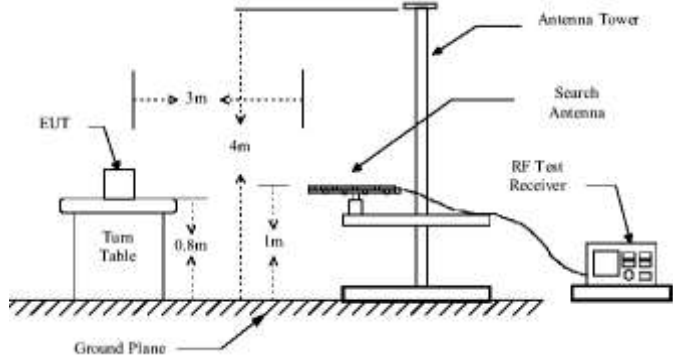
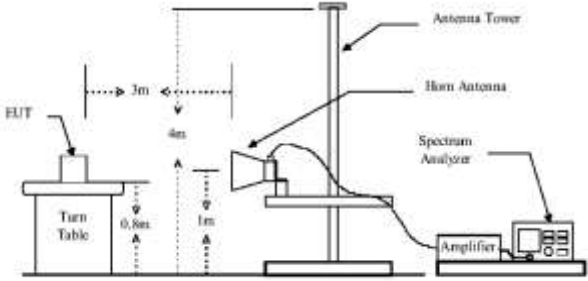
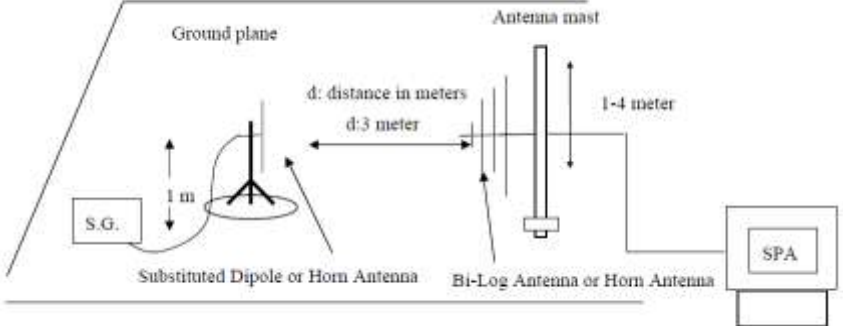
**Middle channel**

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	10	H	V	7.85	34.77	Pass
					H	11.67		
710.00	23790	16QAM	10	H	V	7.82		
					H	11.95		
10MHz(RB size 25& RB offset 0)								
710.00	23790	QPSK	10	H	V	4.61	34.77	Pass
					H	8.75		
710.00	23790	16QAM	10	H	V	4.91		
					H	9.12		
10MHz(RB size 50& RB offset 0)								
710.00	23790	QPSK	10	H	V	2.58	34.77	Pass
					H	6.89		
710.00	23790	16QAM	10	H	V	3.68		
					H	7.98		

**Highest channel**

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
711.00	23800	QPSK	10	H	V	7.72	34.77	Pass
					H	11.76		
711.00	23800	16QAM	10	H	V	7.68		
					H	11.88		
10MHz(RB size 25& RB offset 0)								
711.00	23800	QPSK	10	H	V	4.32	34.77	Pass
					H	8.63		
711.00	23800	16QAM	10	H	V	4.85		
					H	9.13		
10MHz(RB size 50& RB offset 0)								
711.00	23800	QPSK	10	H	V	2.45	34.77	Pass
					H	6.86		
711.00	23800	16QAM	10	H	V	3.77		
					H	7.92		

## 6.11 Field strength of spurious radiation measurement

Test Requirement:	Part 24.238 (a), Part 27.53(g), Part 27.53(m), Part 27.53(h)
Test Method:	FCC part2.1053
Limit:	LTE Band 2, LTE Band 4, LTE Band 5 and LTE Band 17: -13dBm, LTE Band 7: -25dBm
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.</li> <li>3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission</li> </ol>

	was determined using the substitution method. 4. 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 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

**Measurement Data (worst case):****Below 1GHz:**

The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.

**Above 1GHz**

For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

LTE band 2 part:

1.4MHz(RB size 1 & RB offset 0) for QPSK

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3701.40	Vertical	-35.52	-13.00	Pass
5552.10	V	-31.10		
7402.00	V	-32.65		
3701.40	Horizontal	-40.00		
5552.10	H	-28.80		
7402.00	H	-36.82		
<b>Middle</b>				
3760.00	Vertical	-39.32	-13.00	Pass
5640.00	V	-34.90		
7520.00	V	-35.79		
3760.00	Horizontal	-41.05		
5640.00	H	-30.33		
7520.00	H	-30.53		
<b>Highest</b>				
3818.60	Vertical	-42.23	-13.00	Pass
5727.9	V	-36.59		
7637.20	V	-35.44		
3818.60	Horizontal	-43.42		
5727.9	H	-36.61		
7637.20	H	-34.16		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3703.00	Vertical	-37.23	-13.00	Pass
5554.50	V	-33.52		
7406.00	V	-32.46		
3703.00	Horizontal	-42.12		
5554.50	H	-26.89		
7406.00	H	-35.77		
<b>Middle</b>				
3760.00	Vertical	-41.20	-13.00	Pass
5640.00	V	-33.42		
7520.00	V	-34.51		
3760.00	Horizontal	-42.13		
5640.00	H	-33.23		
7520.00	H	-31.45		
<b>Highest</b>				
3817.00	Vertical	-41.85	-13.00	Pass
5725.50	V	-36.56		
7634.00	V	-37.45		
3817.00	Horizontal	-44.15		
5725.50	H	-37.45		
7634.00	H	-35.26		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3705.00	Vertical	-34.72	-13.00	Pass
5557.50	V	-31.26		
7410.00	V	-32.56		
3705.00	Horizontal	-40.56		
5557.50	H	-29.63		
7410.00	H	-36.77		
<b>Middle</b>				
3760.00	Vertical	-39.69	-13.00	Pass
5640.00	V	-35.26		
7520.00	V	-35.62		
3760.00	Horizontal	-42.59		
5640.00	H	-32.58		
7520.00	H	-31.75		
<b>Highest</b>				
3815.00	Vertical	-42.69	-13.00	Pass
5722.50	V	-36.56		
7630.00	V	-36.89		
3815.00	Horizontal	-42.56		
5722.50	H	-38.69		
7630.00	H	-35.88		



10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3710.00	Vertical	-36.23	-13.00	Pass
5565.00	V	-32.35		
7420.00	V	-31.40		
3710.00	Horizontal	-42.12		
5565.00	H	-29.85		
7420.00	H	-34.23		
<b>Middle</b>				
3760.00	Vertical	-38.00	-13.00	Pass
5640.00	V	25.00		
7520.00	V	-35.23		
3760.00	Horizontal	-42.69		
5640.00	H	-32.56		
7520.00	H	-31.72		
<b>Highest</b>				
3810.00	Vertical	-40.89	-13.00	Pass
5715.00	V	-36.96		
7620.00	V	-35.26		
3810.00	Horizontal	-41.56		
5715.00	H	-39.53		
7620.00	H	-35.26		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3715.00	Vertical	-36.25	-13.00	Pass
5572.50	V	-32.23		
7430.00	V	-32.58		
3715.00	Horizontal	-41.25		
5572.50	H	-29.69		
7430.00	H	-35.22		
<b>Middle</b>				
3760.00	Vertical	-40.26	-13.00	Pass
5640.00	V	-35.26		
7520.00	V	-36.55		
3760.00	Horizontal	-42.75		
5640.00	H	-33.58		
7520.00	H	-31.72		
<b>Highest</b>				
3805.00	Vertical	-44.23	-13.00	Pass
5707.50	V	-38.42		
7610.00	V	-36.41		
3805.00	Horizontal	-45.22		
5707.50	H	-36.21		
7610.00	H	-35.23		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3720.00	Vertical	-34.23	-13.00	Pass
5580.00	V	-32.82		
7440.00	V	-30.85		
3720.00	Horizontal	-39.68		
5580.00	H	-31.20		
7440.00	H	-36.58		
<b>Middle</b>				
3760.00	Vertical	-38.56	-13.00	Pass
5640.00	V	-36.26		
7520.00	V	-35.21		
3760.00	Horizontal	-40.23		
5640.00	H	-32.52		
7520.00	H	-32.69		
<b>Highest</b>				
3800.00	Vertical	-40.63	-13.00	Pass
5700.00	V	-35.26		
7600.00	V	-36.96		
3800.00	Horizontal	-45.66		
5700.00	H	-37.41		
7600.00	H	-37.14		

LTE Band 4 Part:

1.4MHz(RB size 1 & RB offset 0) for QPSK

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3421.40	Vertical	-40.93	-13.00	Pass
5132.10	V	-41.78		
6842.80	V	-39.13		
3421.40	Horizontal	-40.74		
5132.10	H	-36.79		
6842.80	H	-36.92		
<b>Middle</b>				
3465.00	Vertical	-32.97	-13.00	Pass
5197.50	V	-34.79		
6930.00	V	-35.81		
3465.00	Horizontal	-37.13		
5197.50	H	-39.03		
6930.00	H	-36.68		
<b>Highest</b>				
3508.60	Vertical	-42.93	-13.00	Pass
5262.90	V	-38.68		
7017.20	V	-35.44		
3508.60	Horizontal	-43.03		
5262.90	H	-37.86		
7017.20	H	-37.28		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3423.00	Vertical	-38.65	-13.00	Pass
5134.50	V	-42.23		
6846.00	V	-40.63		
3423.00	Horizontal	-41.26		
5134.50	H	-37.56		
6846.00	H	-39.26		
<b>Middle</b>				
3465.00	Vertical	-31.22	-13.00	Pass
5197.50	V	-35.63		
6930.00	V	-34.16		
3465.00	Horizontal	-38.56		
5197.50	H	-41.20		
6930.00	H	-35.26		
<b>Highest</b>				
3507.00	Vertical	-41.20	-13.00	Pass
5260.50	V	-39.62		
7014.00	V	-36.23		
3507.00	Horizontal	-45.25		
5260.50	H	-38.56		
7014.00	H	-36.32		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3425.00	Vertical	-41.25	-13.00	Pass
5137.50	V	-41.63		
6850.00	V	-38.56		
3425.00	Horizontal	-39.68		
5137.50	H	-35.26		
6850.00	H	-35.42		
<b>Middle</b>				
3465.00	Vertical	-31.52	-13.00	Pass
5197.50	V	-33.69		
6930.00	V	-36.65		
3465.00	Horizontal	-38.52		
5197.50	H	-37.15		
6930.00	H	-34.26		
<b>Highest</b>				
3505.00	Vertical	-40.36	-13.00	Pass
5257.50	V	-39.90		
7010.00	V	-33.26		
3505.00	Horizontal	-45.26		
5257.50	H	-38.56		
7010.00	H	-37.46		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3430.00	Vertical	-39.63	-13.00	Pass
5145.00	V	-40.25		
6860.00	V	-40.63		
3430.00	Horizontal	-41.25		
5145.00	H	-37.58		
6860.00	H	-37.46		
<b>Middle</b>				
3465.00	Vertical	-31.63	-13.00	Pass
5197.50	V	-35.26		
6930.00	V	-36.67		
3465.00	Horizontal	-36.56		
5197.50	H	-38.75		
6930.00	H	-38.26		
<b>Highest</b>				
3500.00	Vertical	-41.52	-13.00	Pass
5250.00	V	-39.26		
7000.00	V	-36.23		
3500.00	Horizontal	-42.15		
5250.00	H	-38.75		
7000.00	H	-38.69		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3435.00	Vertical	-39.53	-13.00	Pass
5152.50	V	-42.55		
6870.00	V	-38.52		
3435.00	Horizontal	-41.25		
5152.50	H	-36.23		
6870.00	H	-35.42		
<b>Middle</b>				
3465.00	Vertical	-31.45	-13.00	Pass
5197.50	V	-35.22		
6930.00	V	-36.26		
3465.00	Horizontal	-38.53		
5197.50	H	-38.45		
6930.00	H	-35.26		
<b>Highest</b>				
3495.00	Vertical	-41.25	-13.00	Pass
5242.50	V	-39.56		
6990.00	V	-36.23		
3495.00	Horizontal	-40.63		
5242.50	H	-36.23		
6990.00	H	-38.55		



20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3440.00	Vertical	-41.25	-13.00	Pass
5160.00	V	-40.36		
6880.00	V	-40.25		
3440.00	Horizontal	-41.75		
5160.00	H	-38.56		
6880.00	H	-39.26		
<b>Middle</b>				
3465.00	Vertical	-31.24	-13.00	Pass
5197.50	V	-35.26		
6930.00	V	-36.25		
3465.00	Horizontal	-38.55		
5197.50	H	-37.45		
6930.00	H	-35.63		
<b>Highest</b>				
3490.00	Vertical	-41.20	-13.00	Pass
5235.00	V	-39.56		
6980.00	V	-36.21		
3490.00	Horizontal	-42.16		
5235.00	H	-38.75		
6980.00	H	-36.26		

LTE Band 7 Part:

5MHz(RB size 1 & RB offset 0) for QPSK

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
5005.00	Vertical	-44.73	-25.00	Pass
7507.50	V	-38.64		
10010.00	V	-37.82		
5005.00	Horizontal	-44.61		
7507.50	H	-36.44		
10010.00	H	-37.37		
<b>Middle</b>				
5070.00	Vertical	-41.33	-25.00	Pass
7605.00	V	-33.07		
10140.00	V	-36.36		
5070.00	Horizontal	-43.45		
7605.00	H	-32.18		
10140.00	H	-35.26		
<b>Highest</b>				
5135.00	Vertical	-41.03	-25.00	Pass
7702.50	V	-30.98		
10270.00	V	-35.33		
5135.00	Horizontal	-40.88		
7702.50	H	-29.61		
10270.00	H	-36.05		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
5010.00	Vertical	-45.12	-25.00	Pass
7515.00	V	-37.56		
10020.00	V	-38.45		
5010.00	Horizontal	-42.69		
7515.00	H	-38.23		
10020.00	H	-35.27		
<b>Middle</b>				
5070.00	Vertical	-42.56	-25.00	Pass
7605.00	V	-36.26		
10140.00	V	-37.85		
5070.00	Horizontal	-42.96		
7605.00	H	-33.23		
10140.00	H	-34.15		
<b>Highest</b>				
5130.00	Vertical	-42.52	-25.00	Pass
7695.00	V	-31.24		
10260.00	V	-34.16		
5130.00	Horizontal	-39.56		
7695.00	H	-28.79		
10260.00	H	-35.26		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
5015.00	Vertical	42.63	-25.00	Pass
7522.50	V	-37.52		
10030.00	V	-36.69		
5015.00	Horizontal	-45.12		
7522.50	H	-37.85		
10030.00	H	-38.56		
<b>Middle</b>				
5070.00	Vertical	-42.15	-25.00	Pass
7605.00	V	-34.21		
10140.00	V	-35.75		
5070.00	Horizontal	-44.56		
7605.00	H	-34.15		
10140.00	H	-33.69		
<b>Highest</b>				
5125.00	Vertical	-40.25	-25.00	Pass
7687.50	V	-32.26		
10250.00	V	-36.12		
5125.00	Horizontal	-39.52		
7687.50	H	-30.14		
10250.00	H	-35.24		

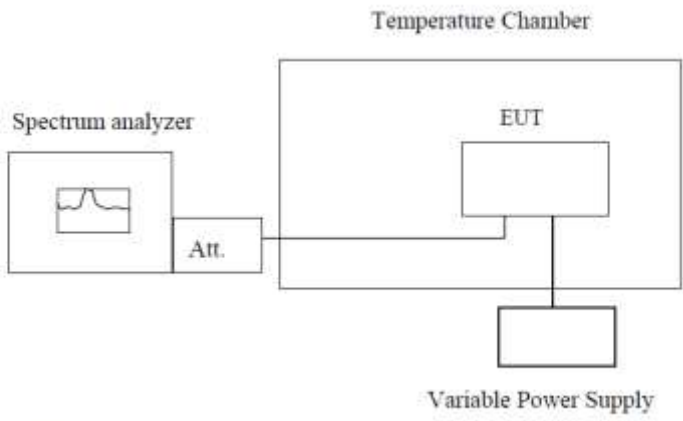
20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
5020.00	Vertical	-43.26	-25.00	Pass
7530.00	V	-39.25		
10040.00	V	-38.54		
5020.00	Horizontal	-45.12		
7530.00	H	-37.52		
10040.00	H	-38.56		
<b>Middle</b>				
5070.00	Vertical	-42.51	-25.00	Pass
7605.00	V	-34.25		
10140.00	V	-37.46		
5070.00	Horizontal	-42.16		
7605.00	H	-33.26		
10140.00	H	-36.78		
<b>Highest</b>				
5120.00	Vertical	-42.13	-25.00	Pass
7680.00	V	-31.20		
10240.00	V	-34.25		
5120.00	Horizontal	-41.26		
7680.00	H	-32.01		
10240.00	H	-34.78		

**LTE Band 17 Part:**
**5MHz(RB size 1 & RB offset 0) for QPSK**

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
1413.00	Vertical	-44.88	-13.00	Pass
2119.50	V	-16.68		
2826.00	V	-20.05		
1413.00	Horizontal	-49.02		
2119.50	H	-35.88		
2826.00	H	-26.74		
<b>Middle</b>				
1420.00	Vertical	-45.45	-13.00	Pass
2130.00	V	-16.64		
2840.00	V	-26.21		
1420.00	Horizontal	-53.03		
2130.00	H	-41.20		
2840.00	H	-37.30		
<b>Highest</b>				
1427.00	Vertical	-47.24	-13.00	Pass
2140.50	V	-38.41		
2854.00	V	-16.12		
1427.00	Horizontal	-51.31		
2140.50	H	-48.68		
2854.00	H	-39.19		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
1418.00	Vertical	-43.26	-13.00	Pass
2127.00	V	-17.58		
2836.00	V	-21.45		
1418.00	Horizontal	-48.53		
2127.00	H	-34.26		
2836.00	H	-28.64		
<b>Middle</b>				
1420.00	Vertical	-47.41	-13.00	Pass
2130.00	V	-19.26		
2840.00	V	-25.43		
1420.00	Horizontal	-50.13		
2130.00	H	-42.31		
2840.00	H	-38.56		
<b>Highest</b>				
1422.00	Vertical	-48.55	-13.00	Pass
2133.00	V	-37.42		
2844.00	V	-18.96		
1422.00	Horizontal	-49.68		
2133.00	H	-47.56		
2844.00	H	-38.26		

## 6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	Part 24.235, Part 27.54, Part 2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	±2.5ppm
Test setup:	 <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>
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 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

Measurement Data (the worst channel):



**LTE Band 2(QPSK):**

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	152	0.080851	±2.5	Pass
	-20	136	0.072340		
	-10	122	0.064894		
	0	104	0.055319		
	10	125	0.066489		
	20	136	0.072340		
	30	127	0.067553		
	40	125	0.066489		
	50	122	0.064894		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	147	0.078191	±2.5	Pass
	-20	123	0.065426		
	-10	105	0.055851		
	0	116	0.061702		
	10	124	0.065957		
	20	136	0.072340		
	30	123	0.065426		
	40	105	0.055851		
	50	128	0.068085		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	144	0.076596	±2.5	Pass
	-20	125	0.066489		
	-10	130	0.069149		
	0	131	0.069681		
	10	102	0.054255		
	20	114	0.060638		
	30	126	0.067021		
	40	128	0.068085		
	50	104	0.055319		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	126	0.067021	±2.5	Pass
	-20	102	0.054255		
	-10	114	0.060638		
	0	123	0.065426		
	10	102	0.054255		
	20	115	0.061170		
	30	127	0.067553		
	40	103	0.054787		
	50	112	0.059574		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	123	0.065426	±2.5	Pass
	-20	120	0.063830		
	-10	102	0.054255		
	0	114	0.060638		
	10	103	0.054787		
	20	125	0.066489		
	30	120	0.063830		
	40	130	0.069149		
	50	142	0.075532		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	152	0.080851	±2.5	Pass
	-20	136	0.072340		
	-10	125	0.066489		
	0	124	0.065957		
	10	102	0.054255		
	20	136	0.072340		
	30	125	0.066489		
	40	146	0.077660		
	50	105	0.055851		

**LTE Band 2(16QAM):**

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	142	0.075532	±2.5	Pass
	-20	130	0.069149		
	-10	122	0.064894		
	0	126	0.067021		
	10	120	0.063830		
	20	130	0.069149		
	30	150	0.079787		
	40	141	0.075000		
	50	102	0.054255		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	122	0.064894	±2.5	Pass
	-20	106	0.056383		
	-10	123	0.065426		
	0	140	0.074468		
	10	125	0.066489		
	20	102	0.054255		
	30	133	0.070745		
	40	126	0.067021		
	50	104	0.055319		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	163	0.086702	±2.5	Pass
	-20	125	0.066489		
	-10	135	0.071809		
	0	122	0.064894		
	10	120	0.063830		
	20	133	0.070745		
	30	124	0.065957		
	40	123	0.065426		
	50	106	0.056383		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	142	0.075532	±2.5	Pass
	-20	136	0.072340		
	-10	125	0.066489		
	0	122	0.064894		
	10	104	0.055319		
	20	123	0.065426		
	30	163	0.086702		
	40	114	0.060638		
	50	105	0.055851		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	125	0.066489	±2.5	Pass
	-20	136	0.072340		
	-10	120	0.063830		
	0	125	0.066489		
	10	114	0.060638		
	20	105	0.055851		
	30	136	0.072340		
	40	125	0.066489		
	50	104	0.055319		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	144	0.076596	±2.5	Pass
	-20	136	0.072340		
	-10	105	0.055851		
	0	124	0.065957		
	10	116	0.061702		
	20	125	0.066489		
	30	123	0.065426		
	40	109	0.057979		
	50	119	0.063298		

**LTE Band 4(QPSK):**

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	155	0.089466	±2.5	Pass
	-20	125	0.072150		
	-10	116	0.066955		
	0	142	0.081962		
	10	133	0.076768		
	20	125	0.072150		
	30	108	0.062338		
	40	119	0.068687		
	50	107	0.061760		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	122	0.070418	±2.5	Pass
	-20	104	0.060029		
	-10	119	0.068687		
	0	136	0.078499		
	10	125	0.072150		
	20	114	0.065801		
	30	105	0.060606		
	40	129	0.074459		
	50	123	0.070996		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	163	0.094084	±2.5	Pass
	-20	159	0.091775		
	-10	127	0.073304		
	0	133	0.076768		
	10	156	0.090043		
	20	141	0.081385		
	30	125	0.072150		
	40	116	0.066955		
	50	136	0.078499		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	141	0.081385	±2.5	Pass
	-20	122	0.070418		
	-10	106	0.061183		
	0	125	0.072150		
	10	136	0.078499		
	20	125	0.072150		
	30	114	0.065801		
	40	106	0.061183		
	50	125	0.072150		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	146	0.084271	±2.5	Pass
	-20	125	0.072150		
	-10	136	0.078499		
	0	105	0.060606		
	10	124	0.071573		
	20	116	0.066955		
	30	105	0.060606		
	40	126	0.072727		
	50	136	0.078499		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	124	0.071573	±2.5	Pass
	-20	150	0.086580		
	-10	112	0.064646		
	0	106	0.061183		
	10	109	0.062915		
	20	122	0.070418		
	30	130	0.075036		
	40	146	0.084271		
	50	106	0.061183		

**LTE Band 4(16QAM):**

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	160	0.092352	±2.5	Pass
	-20	143	0.082540		
	-10	123	0.070996		
	0	105	0.060606		
	10	126	0.072727		
	20	115	0.066378		
	30	122	0.070418		
	40	136	0.078499		
	50	105	0.060606		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	130	0.075036	±2.5	Pass
	-20	126	0.072727		
	-10	125	0.072150		
	0	116	0.066955		
	10	120	0.069264		
	20	117	0.067532		
	30	136	0.078499		
	40	108	0.062338		
	50	129	0.074459		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	130	0.075036	±2.5	Pass
	-20	105	0.060606		
	-10	126	0.072727		
	0	104	0.060029		
	10	123	0.070996		
	20	101	0.058297		
	30	104	0.060029		
	40	115	0.066378		
	50	126	0.072727		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	133	0.076768	±2.5	Pass
	-20	109	0.062915		
	-10	126	0.072727		
	0	139	0.080231		
	10	145	0.083694		
	20	136	0.078499		
	30	128	0.073882		
	40	146	0.084271		
	50	125	0.072150		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	140	0.080808	±2.5	Pass
	-20	116	0.066955		
	-10	136	0.078499		
	0	105	0.060606		
	10	126	0.072727		
	20	103	0.059452		
	30	120	0.069264		
	40	115	0.066378		
	50	106	0.061183		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	102	0.058874	±2.5	Pass
	-20	116	0.066955		
	-10	126	0.072727		
	0	133	0.076768		
	10	105	0.060606		
	20	116	0.066955		
	30	125	0.072150		
	40	108	0.062338		
	50	126	0.072727		



**LTE Band 7(QPSK):**

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	136	0.053649	±2.5	Pass
	-20	102	0.040237		
	-10	115	0.045365		
	0	140	0.055227		
	10	109	0.042998		
	20	126	0.049704		
	30	136	0.053649		
	40	125	0.049310		
	50	142	0.056016		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	142	0.056016	±2.5	Pass
	-20	106	0.041815		
	-10	116	0.045759		
	0	136	0.053649		
	10	105	0.041420		
	20	115	0.045365		
	30	107	0.042209		
	40	122	0.048126		
	50	136	0.053649		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	142	0.056016	±2.5	Pass
	-20	108	0.042604		
	-10	116	0.045759		
	0	123	0.048521		
	10	146	0.057594		
	20	128	0.050493		
	30	146	0.057594		
	40	136	0.053649		
	50	107	0.042209		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	163	0.064300	±2.5	Pass
	-20	102	0.040237		
	-10	119	0.046943		
	0	125	0.049310		
	10	142	0.056016		
	20	136	0.053649		
	30	122	0.048126		
	40	105	0.041420		
	50	136	0.053649		

**LTE Band 7(16QAM):**

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	126	0.049704	±2.5	Pass
	-20	135	0.053254		
	-10	104	0.041026		
	0	116	0.045759		
	10	123	0.048521		
	20	108	0.042604		
	30	136	0.053649		
	40	114	0.044970		
	50	126	0.049704		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	106	0.041815	±2.5	Pass
	-20	124	0.048915		
	-10	133	0.052465		
	0	116	0.045759		
	10	128	0.050493		
	20	136	0.053649		
	30	125	0.049310		
	40	116	0.045759		
	50	108	0.042604		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	142	0.056016	2.5	Pass
	-20	116	0.045759		
	-10	136	0.053649		
	0	105	0.041420		
	10	126	0.049704		
	20	136	0.053649		
	30	115	0.045365		
	40	108	0.042604		
	50	116	0.045759		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	142	0.056016	2.5	Pass
	-20	136	0.053649		
	-10	125	0.049310		
	0	146	0.057594		
	10	125	0.049310		
	20	108	0.042604		
	30	126	0.049704		
	40	136	0.053649		
	50	130	0.051282		

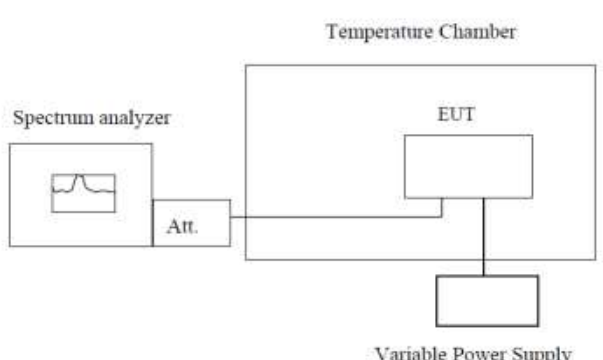
**LTE Band 17(QPSK):**

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	152	0.214085	±2.5	Pass
	-20	103	0.145070		
	-10	136	0.191549		
	0	124	0.174648		
	10	102	0.143662		
	20	113	0.159155		
	30	126	0.177465		
	40	123	0.173239		
50	104	0.146479			
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	145	0.204225	±2.5	Pass
	-20	103	0.145070		
	-10	126	0.177465		
	0	102	0.143662		
	10	141	0.198592		
	20	122	0.171831		
	30	109	0.153521		
	40	117	0.164789		
50	123	0.173239			

**LTE Band 17(16QAM):**

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	130	0.183099	±2.5	Pass
	-20	102	0.143662		
	-10	126	0.177465		
	0	141	0.198592		
	10	133	0.187324		
	20	125	0.176056		
	30	106	0.149296		
	40	125	0.176056		
50	116	0.163380			
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.00	-30	145	0.204225	±2.5	Pass
	-20	136	0.191549		
	-10	125	0.176056		
	0	113	0.159155		
	10	125	0.176056		
	20	116	0.163380		
	30	123	0.173239		
	40	105	0.147887		
50	127	0.178873			

## 6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 24.235, Part 27.54, Part 2.1055(d)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	 <p><b>Note :</b> Measurement setup for testing on Antenna connector</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 5.8 for details
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.
Test results:	Passed

**Measurement Data (the worst channel):**
**LTE Band 2(QPSK):**

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	85	0.045213	±2.5	Pass
	12.00	74	0.039362		
	10.20	63	0.033511		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	99	0.052660	±2.5	Pass
	12.00	85	0.045213		
	10.20	74	0.039362		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	88	0.046809	±2.5	Pass
	12.00	76	0.040426		
	10.20	85	0.045213		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	78	0.041489	±2.5	Pass
	12.00	68	0.036170		
	10.20	90	0.047872		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	77	0.040957	±2.5	Pass
	12.00	56	0.029787		
	10.20	63	0.033511		
Reference Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	85	0.045213	±2.5	Pass
	12.00	47	0.025000		
	10.20	63	0.033511		

**LTE Band 2(16QAM):**

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	75	0.039894	±2.5	Pass
	12.00	63	0.033511		
	10.20	58	0.030851		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	74	0.039362	±2.5	Pass
	12.00	55	0.029255		
	10.20	69	0.036702		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	75	0.039894	±2.5	Pass
	12.00	69	0.036702		
	10.20	58	0.030851		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	74	0.039362	±2.5	Pass
	12.00	58	0.030851		
	10.20	77	0.040957		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	78	0.041489	±2.5	Pass
	12.00	68	0.036170		
	10.20	85	0.045213		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	90	0.047872	±2.5	Pass
	12.00	58	0.030851		
	10.20	75	0.039894		

**LTE Band 4(QPSK):**

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	77	0.044444	±2.5	Pass
	12.00	85	0.049062		
	10.20	49	0.028283		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	67	0.038672	±2.5	Pass
	12.00	74	0.042713		
	10.20	78	0.045022		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	77	0.044444	±2.5	Pass
	12.00	85	0.049062		
	10.20	63	0.036364		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	75	0.043290	±2.5	Pass
	12.00	46	0.026551		
	10.20	82	0.047330		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	88	0.050794	±2.5	Pass
	12.00	46	0.026551		
	10.20	74	0.042713		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	86	0.049639	±2.5	Pass
	12.00	52	0.030014		
	10.20	46	0.026551		

**LTE Band 4(16QAM):**

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	74	0.042713	±2.5	Pass
	12.00	62	0.035786		
	10.20	35	0.020202		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	77	0.044444	±2.5	Pass
	12.00	79	0.045599		
	10.20	65	0.037518		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	48	0.027706	±2.5	Pass
	12.00	75	0.043290		
	10.20	62	0.035786		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	74	0.042713	±2.5	Pass
	12.00	85	0.049062		
	10.20	62	0.035786		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	52	0.030014	±2.5	Pass
	12.00	74	0.042713		
	10.20	63	0.036364		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	72	0.041558	±2.5	Pass
	12.00	55	0.031746		
	10.20	63	0.036364		



**LTE Band 7(QPSK):**

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	74	0.029191	±2.5	Pass
	12.00	52	0.020513		
	10.20	60	0.023669		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	45	0.017751	±2.5	Pass
	12.00	62	0.024458		
	10.20	75	0.029586		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	85	0.033531	±2.5	Pass
	12.00	63	0.024852		
	10.20	45	0.017751		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	78	0.030769	±2.5	Pass
	12.00	55	0.021696		
	10.20	69	0.027219		

**LTE Band 7(16QAM):**

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	74	0.029191	±2.5	Pass
	12.00	85	0.033531		
	10.20	76	0.029980		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	72	0.028402	±2.5	Pass
	12.00	82	0.032347		
	10.20	63	0.024852		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	74	0.029191	±2.5	Pass
	12.00	58	0.022880		
	10.20	85	0.033531		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	92	0.036292	±2.5	Pass
	12.00	56	0.022091		
	10.20	74	0.029191		

**LTE Band 17(QPSK):**

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	74	0.104225	±2.5	Pass
	12.00	85	0.119718		
	10.20	69	0.097183		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	74	0.104225	±2.5	Pass
	12.00	66	0.092958		
	10.20	85	0.119718		

**LTE Band 17(16QAM):**

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	74	0.10423	±2.5	Pass
	12.00	62	0.08732		
	10.20	90	0.12676		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	13.80	77	0.108451	±2.5	Pass
	12.00	85	0.119718		
	10.20	63	0.088732		