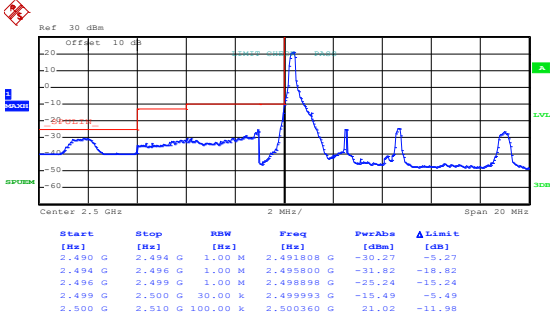


LTE band 7 part:

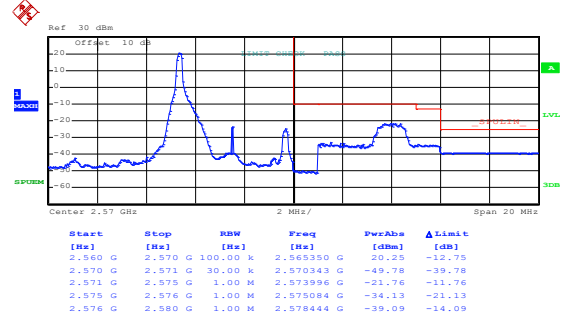
5MHz:

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



Date: 3.JUL.2017 10:24:41

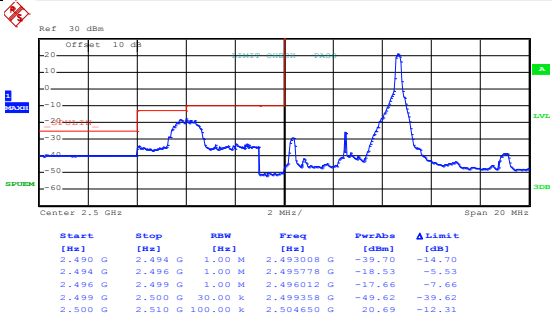
Lowest channel



Date: 3.JUL.2017 10:27:51

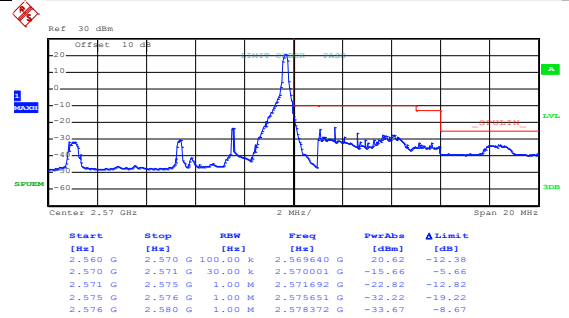
Highest channel

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



Date: 3.JUL.2017 10:25:01

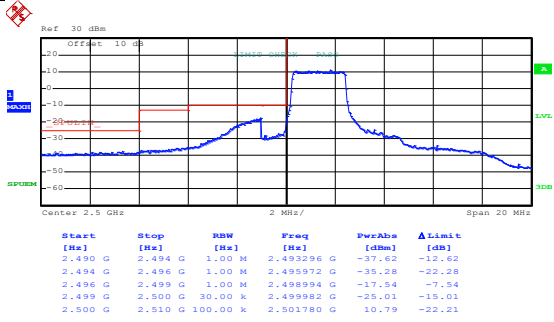
Lowest channel



Date: 3.JUL.2017 10:28:11

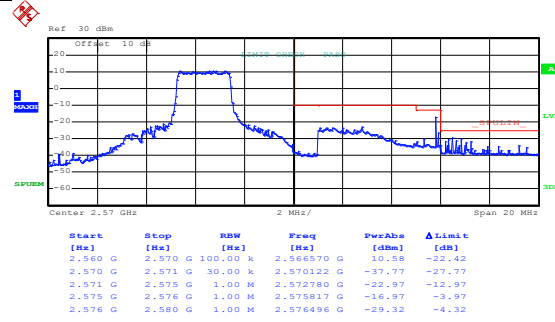
Highest channel

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



Date: 3.JUL.2017 10:26:09

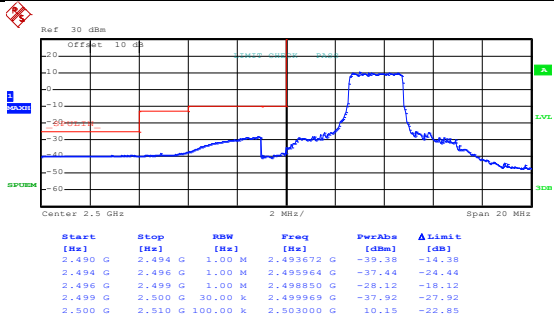
Lowest channel



Date: 3.JUL.2017 10:28:31

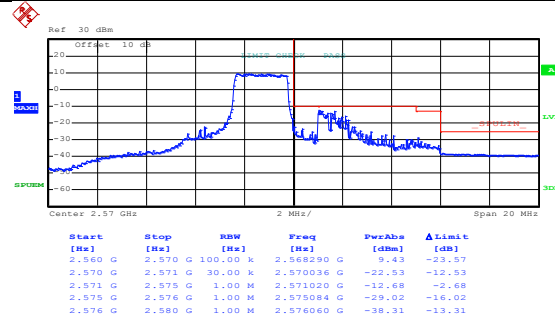
Highest channel

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



Date: 3.JUL.2017 10:26:33

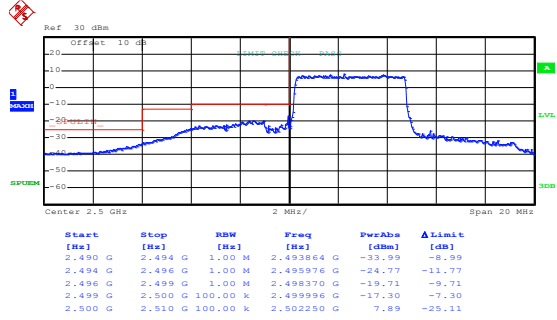
Lowest channel



Date: 3.JUL.2017 10:28:56

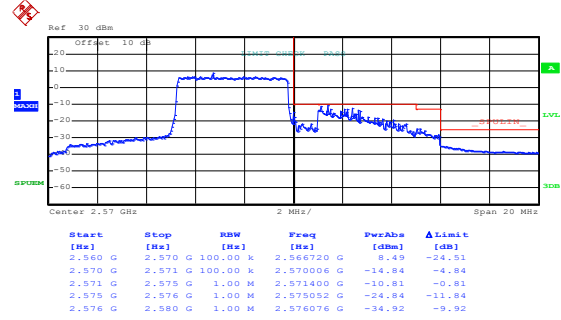
Highest channel

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



Date: 3.JUL.2017 10:27:06

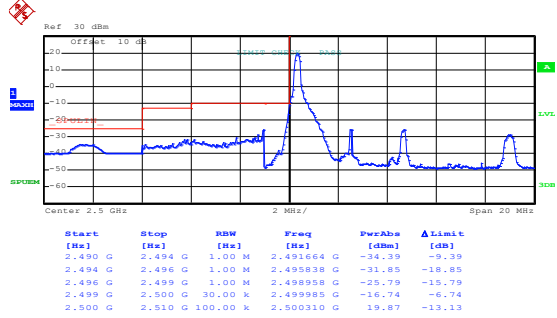
Lowest channel



Date: 3.JUL.2017 10:29:32

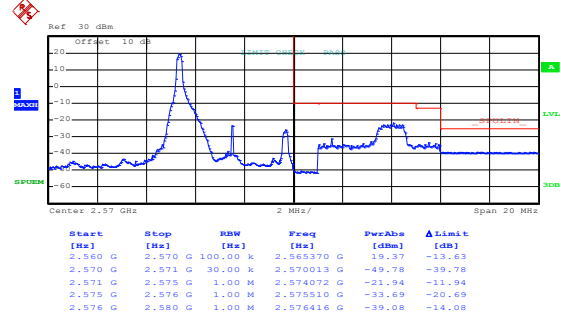
Highest channel

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



Date: 3.JUL.2017 10:24:50

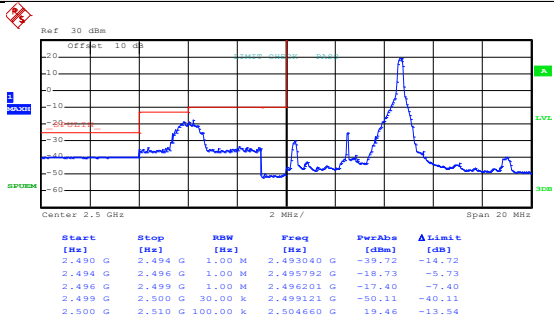
Lowest channel



Date: 3.JUL.2017 10:28:00

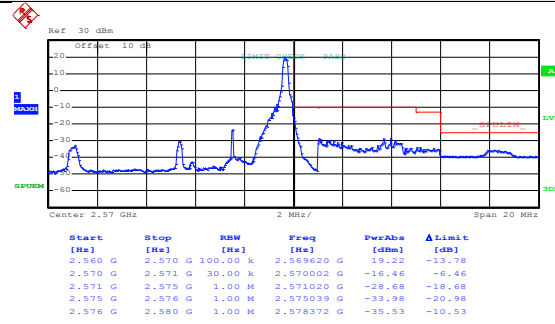
Highest channel

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



Date: 3.JUL.2017 10:25:09

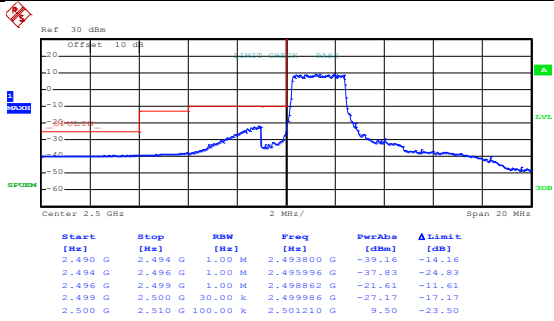
Lowest channel



Date: 3.JUL.2017 10:28:19

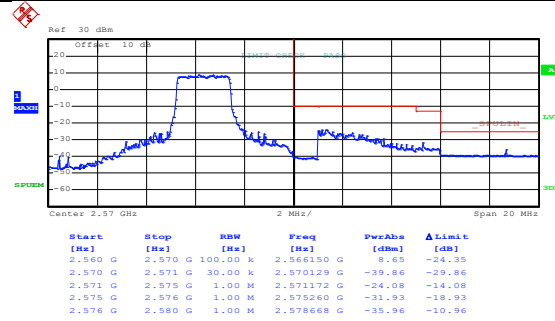
Highest channel

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



Date: 3.JUL.2017 10:26:20

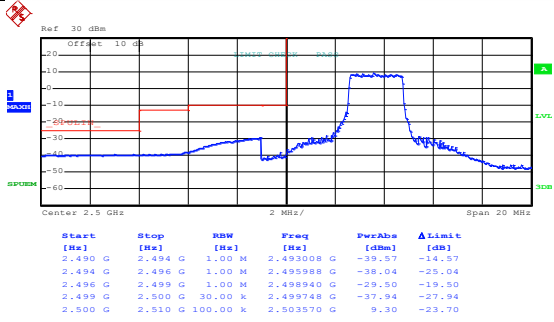
Lowest channel



Date: 3.JUL.2017 10:28:39

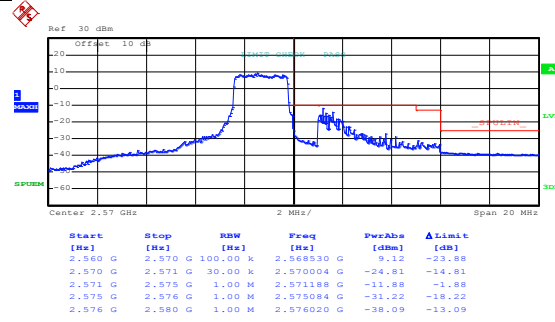
Highest channel

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



Date: 3.JUL.2017 10:26:41

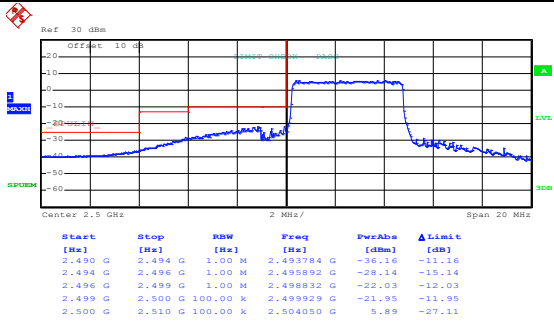
Lowest channel



Date: 3.JUL.2017 10:29:08

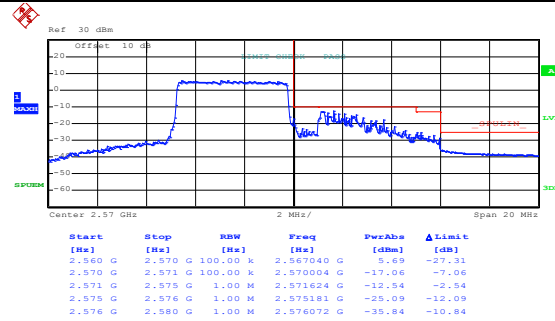
Highest channel

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



Date: 3.JUL.2017 10:27:13

Lowest channel

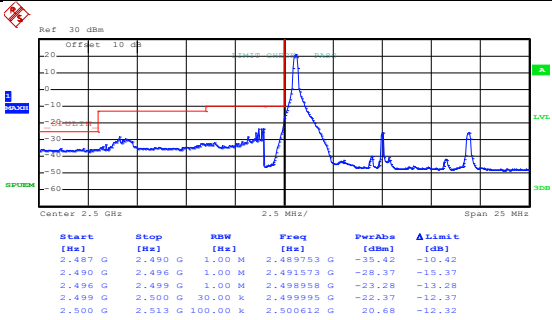


Date: 3.JUL.2017 10:29:41

Highest channel

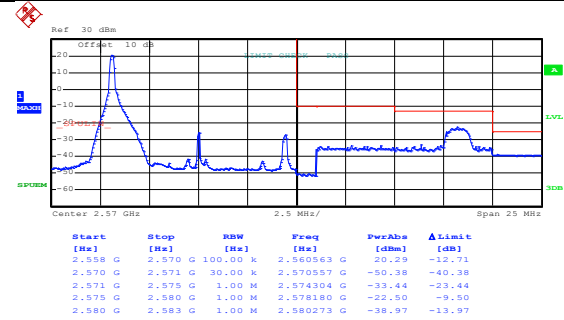
10MHz:

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



Date: 3.JUL.2017 10:30:43

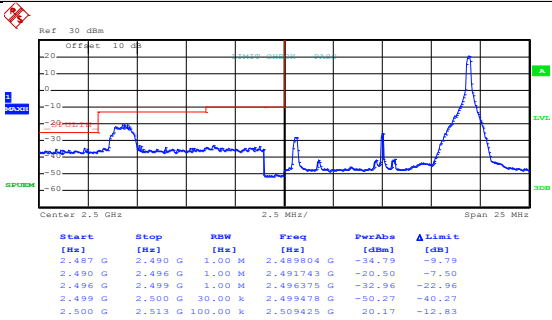
Lowest channel



Date: 3.JUL.2017 10:33:07

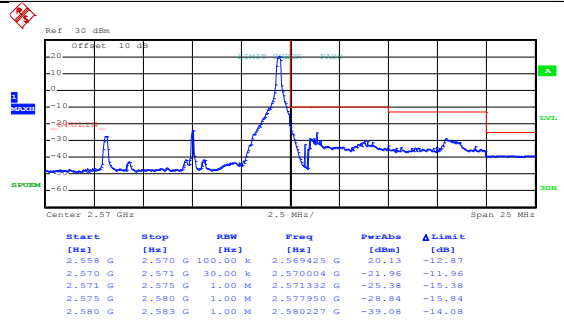
Highest channel

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



Date: 3.JUL.2017 10:31:01

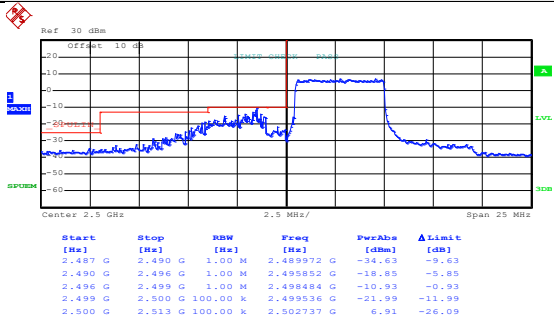
Lowest channel



Date: 3.JUL.2017 10:33:28

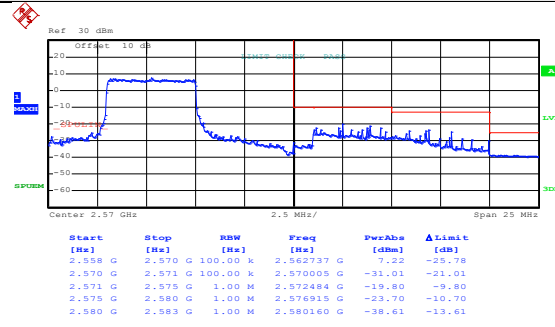
Highest channel

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



Date: 3.JUL.2017 10:31:32

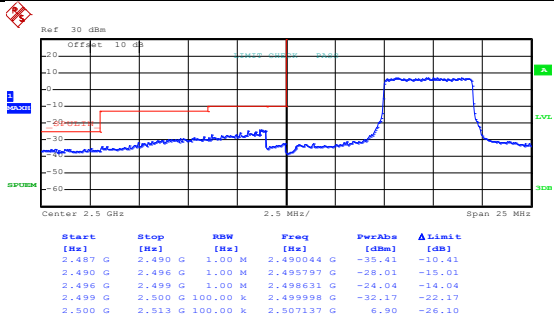
Lowest channel



Date: 3.JUL.2017 10:33:57

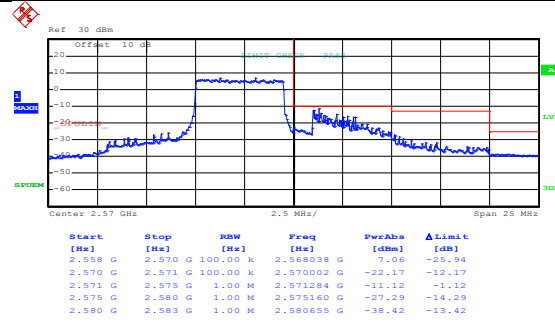
Highest channel

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



Date: 3.JUL.2017 10:31:53

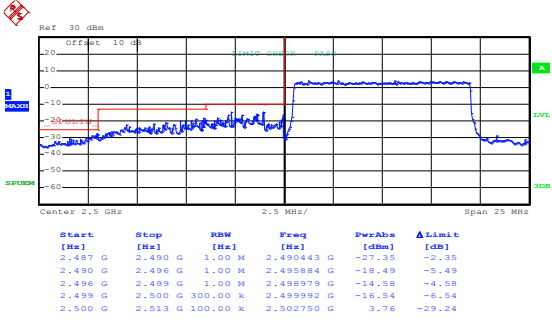
Lowest channel



Date: 3.JUL.2017 10:34:34

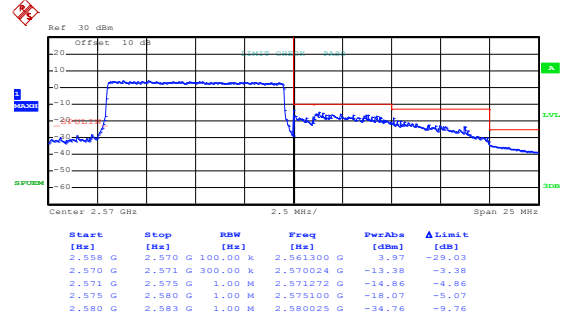
Highest channel

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



Date: 3.JUL.2017 10:32:25

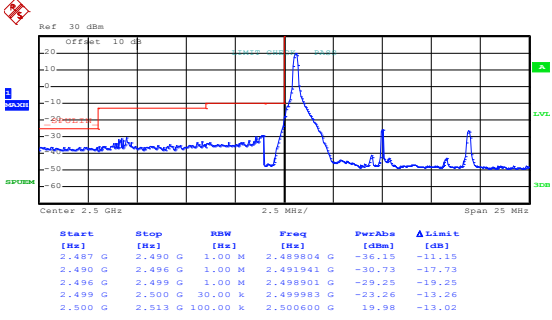
Lowest channel



Date: 3.JUL.2017 10:35:05

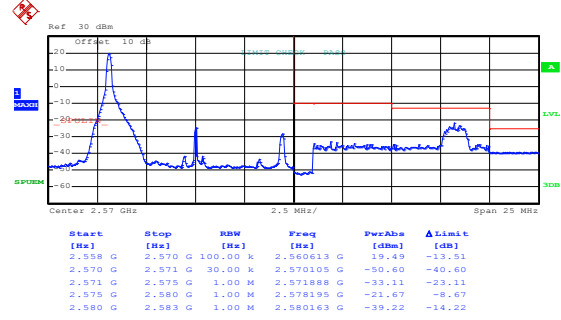
Highest channel

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



Date: 3.JUL.2017 10:30:51

Lowest channel

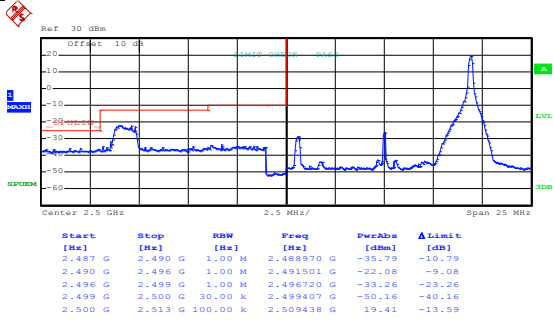


Date: 3.JUL.2017 10:33:16

Highest channel

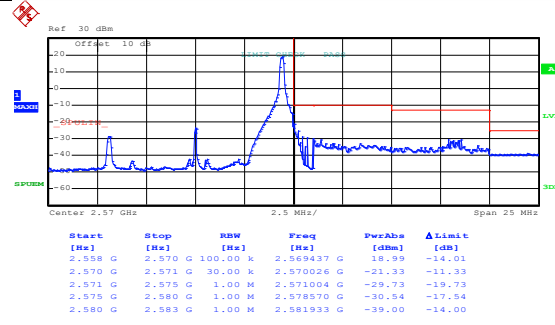


Test Mode: LTE band 7(16QAM RB Size 1& RB Offset 49)



Date: 3.JUL.2017 10:31:11

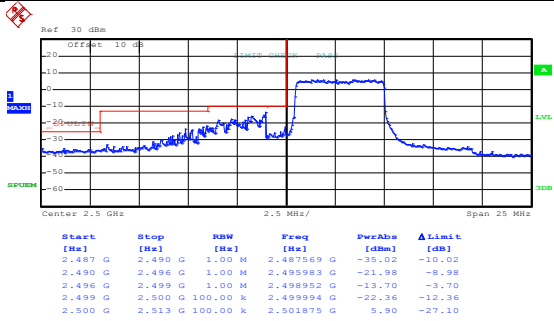
Lowest channel



Date: 3.JUL.2017 10:33:37

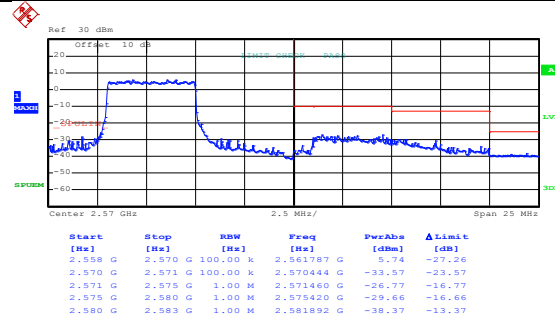
Highest channel

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



Date: 3.JUL.2017 10:31:41

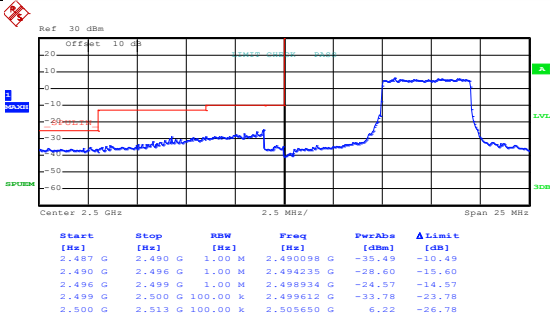
Lowest channel



Date: 3.JUL.2017 10:34:13

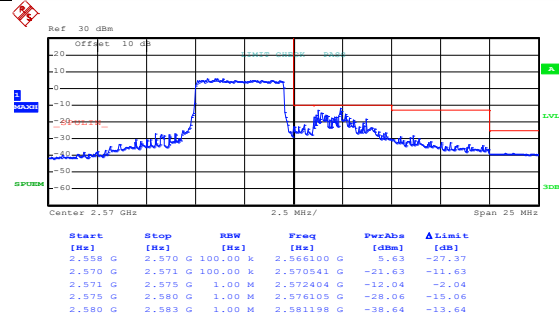
Highest channel

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



Date: 3.JUL.2017 10:32:02

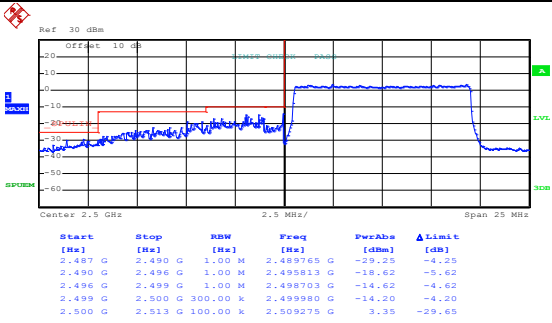
Lowest channel



Date: 3.JUL.2017 10:34:44

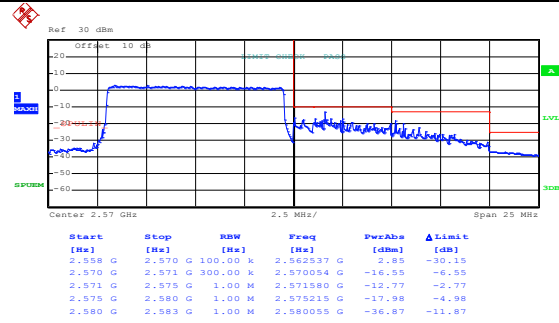
Highest channel

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



Date: 3.JUL.2017 10:32:34

Lowest channel

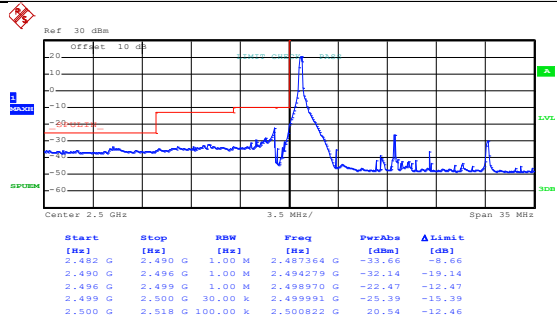


Date: 3.JUL.2017 10:35:13

Highest channel

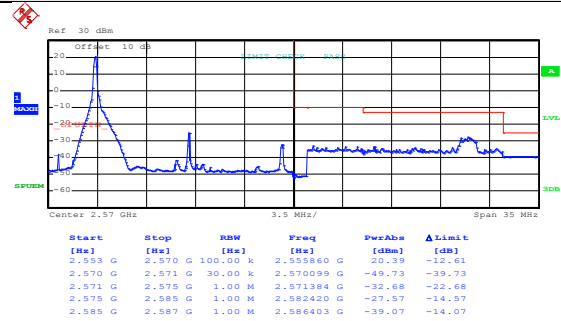
15MHz:

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



Date: 3.JUL.2017 10:36:25

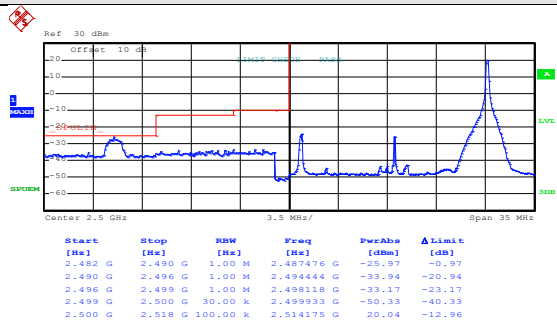
Lowest channel



Date: 3.JUL.2017 10:38:58

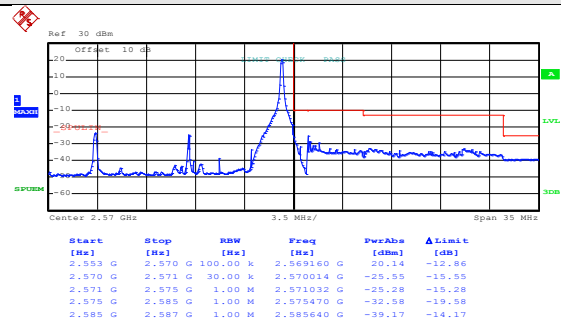
Highest channel

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



Date: 3.JUL.2017 10:36:52

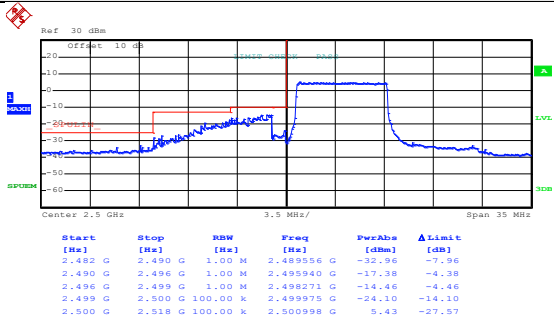
Lowest channel



Date: 3.JUL.2017 10:39:18

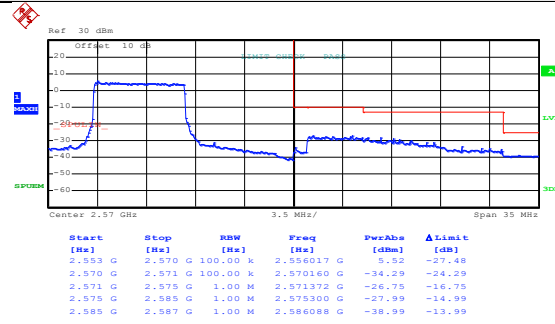
Highest channel

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



Date: 3.JUL.2017 10:37:19

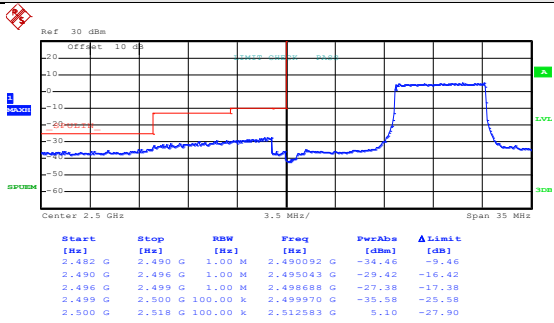
Lowest channel



Date: 3.JUL.2017 10:39:48

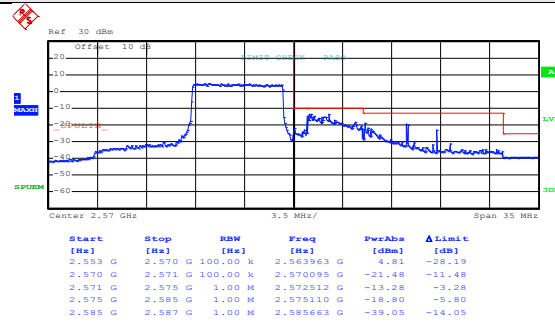
Highest channel

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



Date: 3.JUL.2017 10:37:39

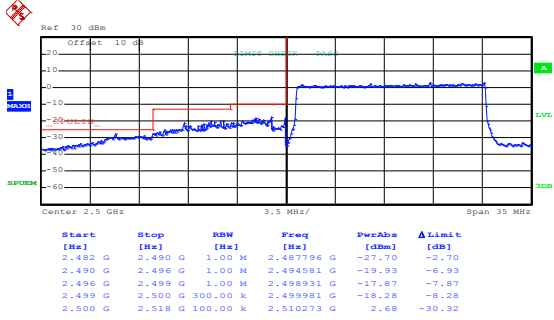
Lowest channel



Date: 3.JUL.2017 10:40:09

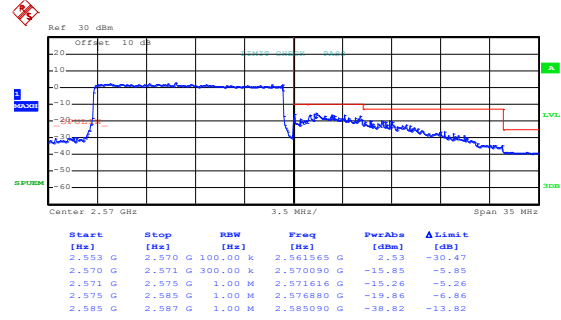
Highest channel

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



Date: 3.JUL.2017 10:38:06

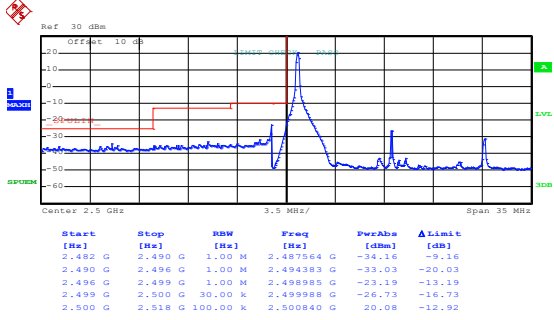
Lowest channel



Date: 3.JUL.2017 10:40:34

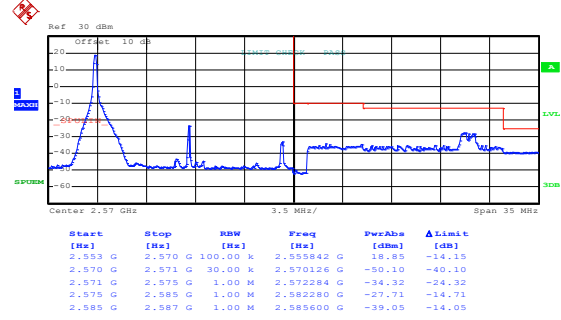
Highest channel

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



Date: 3.JUL.2017 10:36:34

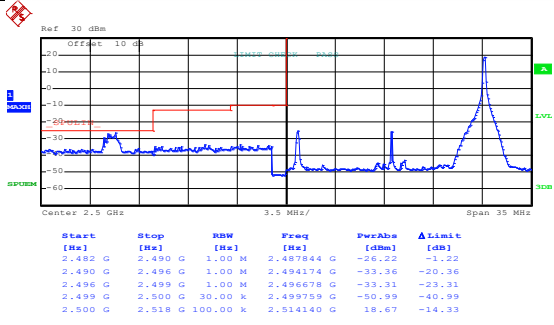
Lowest channel



Date: 3.JUL.2017 10:39:07

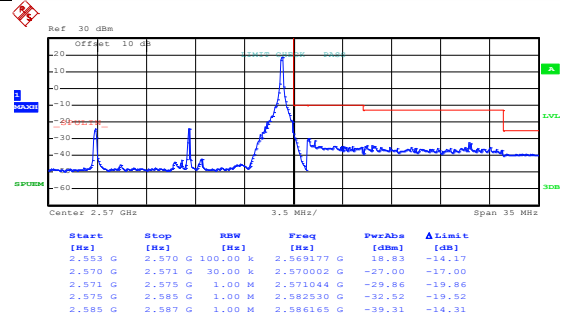
Highest channel

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



Date: 3.JUL.2017 10:37:00

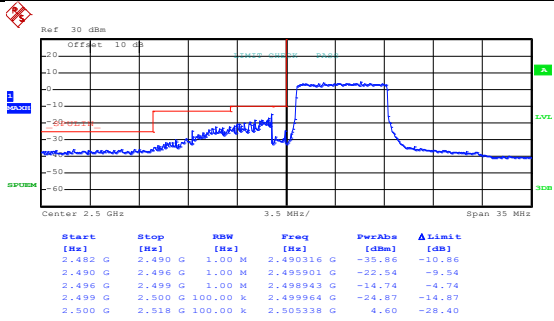
Lowest channel



Date: 3.JUL.2017 10:39:27

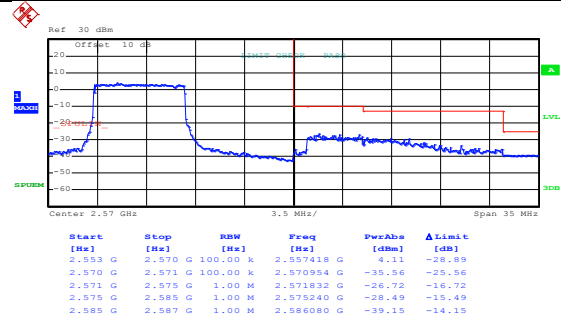
Highest channel

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



Date: 3.JUL.2017 10:37:25

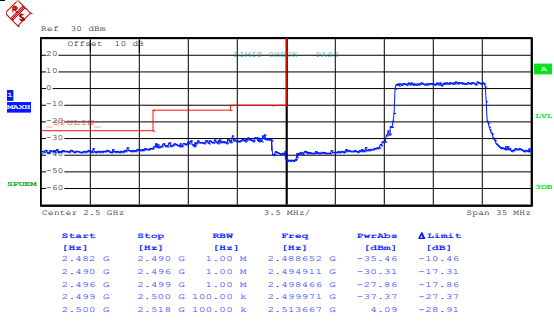
Lowest channel



Date: 3.JUL.2017 10:39:56

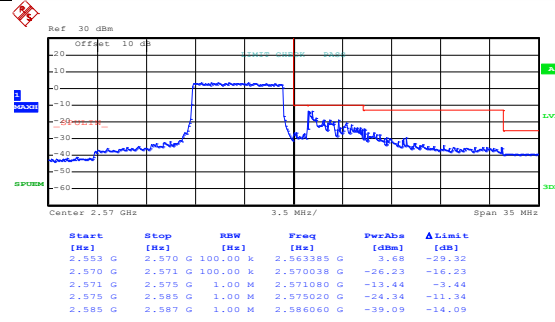
Highest channel

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



Date: 3.JUL.2017 10:37:48

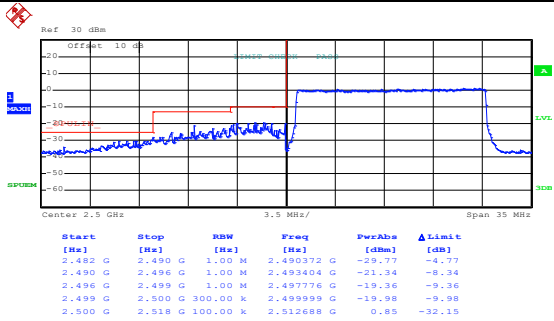
Lowest channel



Date: 3.JUL.2017 10:40:18

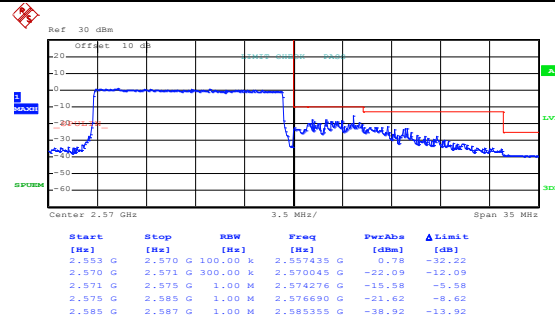
Highest channel

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



Date: 3.JUL.2017 10:38:13

Lowest channel

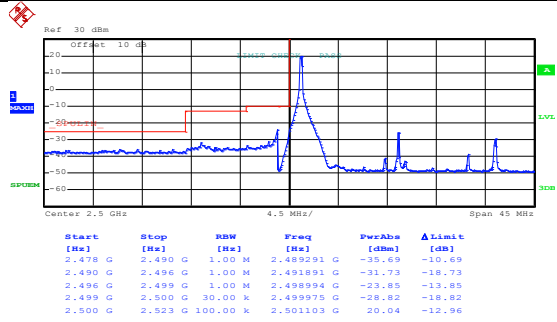


Date: 3.JUL.2017 10:40:42

Highest channel

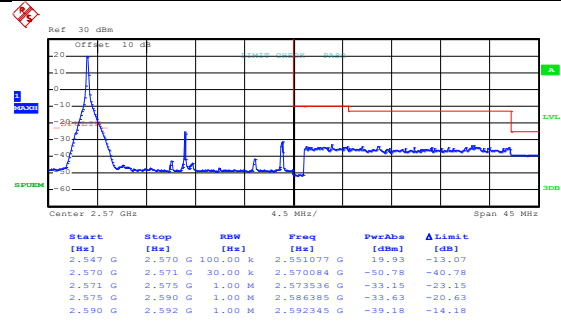
20MHz:

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



Date: 3.JUL.2017 10:42:51

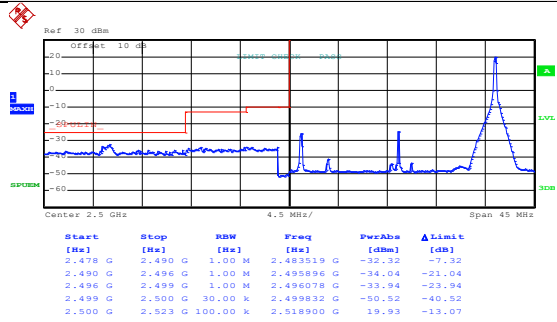
Lowest channel



Date: 3.JUL.2017 10:45:03

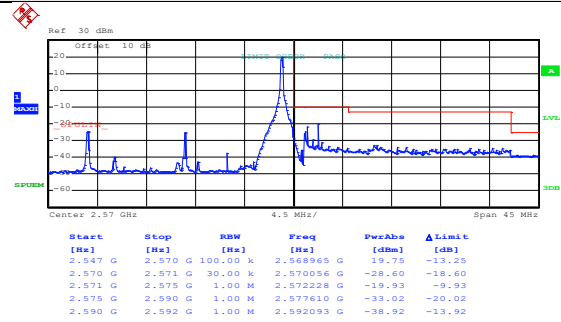
Highest channel

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



Date: 3.JUL.2017 10:43:13

Lowest channel

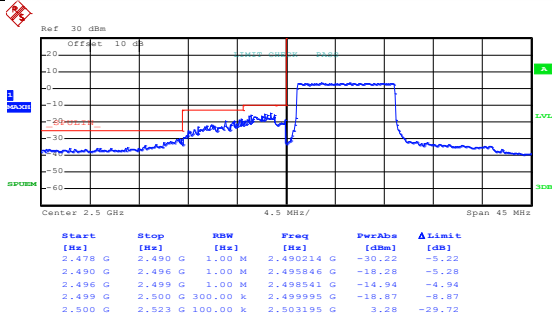


Date: 3.JUL.2017 10:45:32

Highest channel

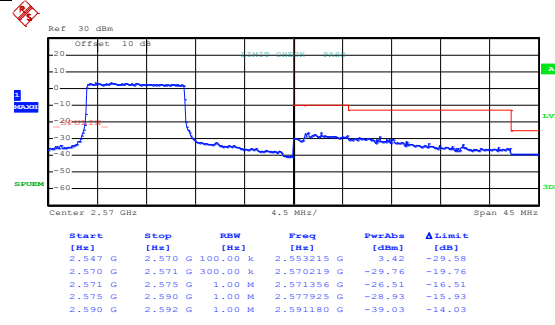


Test Mode: LTE band 7(QPSK RB Size 50& RB Offset 0)



Date: 3.JUL.2017 10:43:43

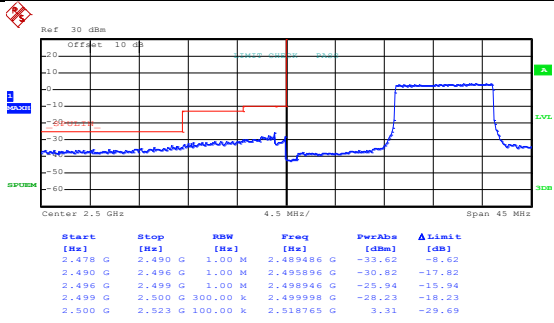
Lowest channel



Date: 3.JUL.2017 10:45:59

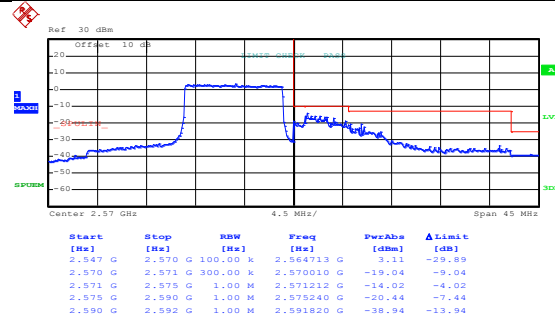
Highest channel

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



Date: 3.JUL.2017 10:44:04

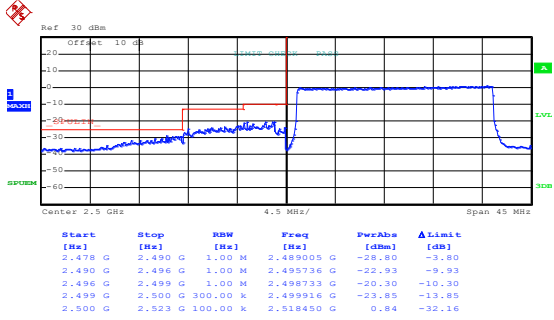
Lowest channel



Date: 3.JUL.2017 10:46:30

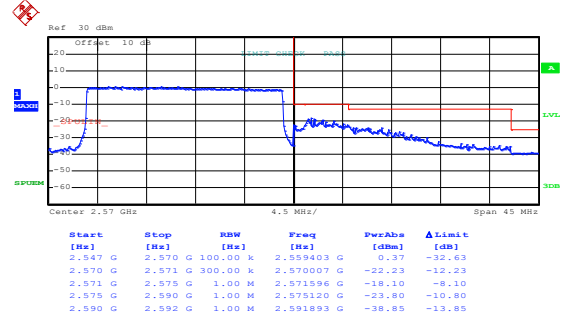
Highest channel

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



Date: 3.JUL.2017 10:44:30

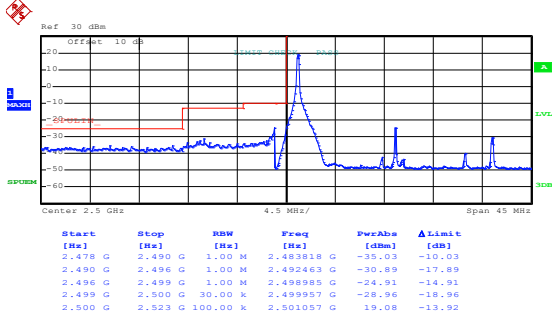
Lowest channel



Date: 3.JUL.2017 10:46:54

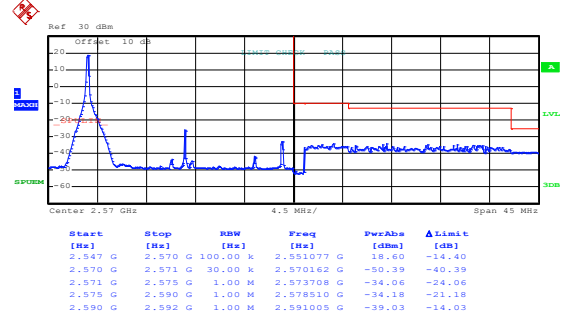
Highest channel

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



Date: 3.JUL.2017 10:43:01

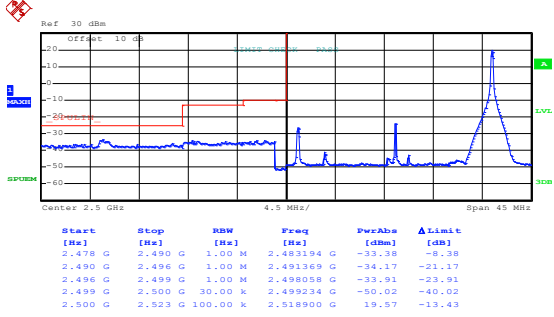
Lowest channel



Date: 3.JUL.2017 10:45:20

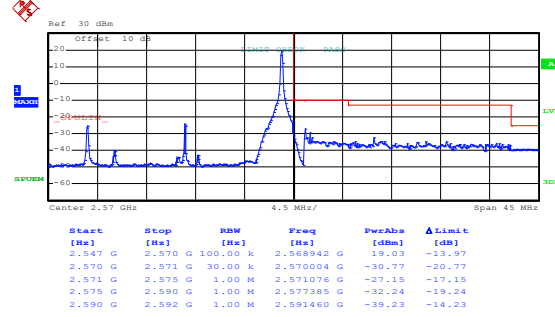
Highest channel

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



Date: 3.JUL.2017 10:43:25

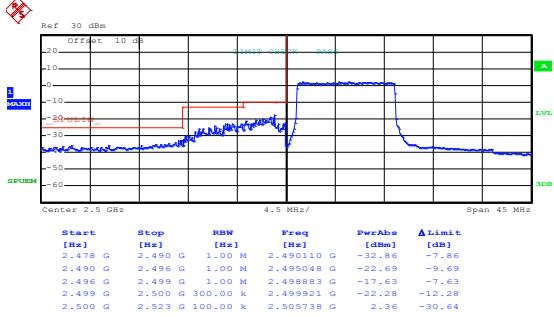
Lowest channel



Date: 3.JUL.2017 10:45:41

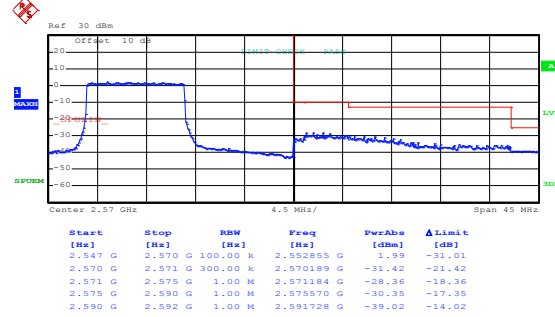
Highest channel

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



Date: 3.JUL.2017 10:43:52

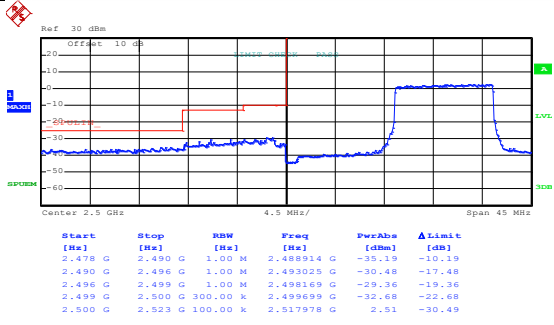
Lowest channel



Date: 3.JUL.2017 10:46:08

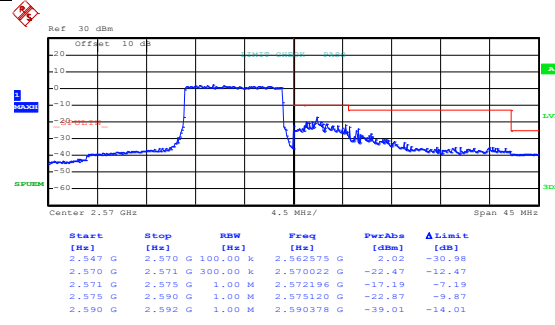
Highest channel

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



Date: 3.JUL.2017 10:44:16

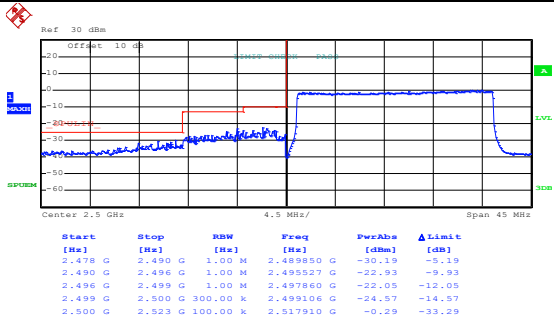
Lowest channel



Date: 3.JUL.2017 10:46:40

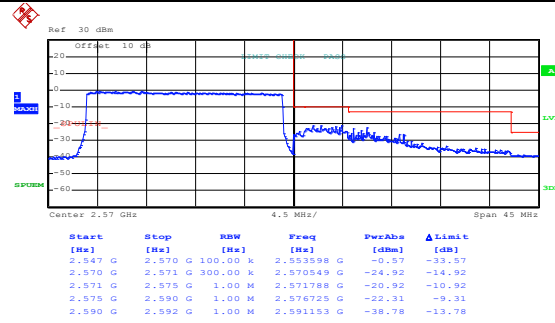
Highest channel

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



Date: 3.JUL.2017 10:44:37

Lowest channel



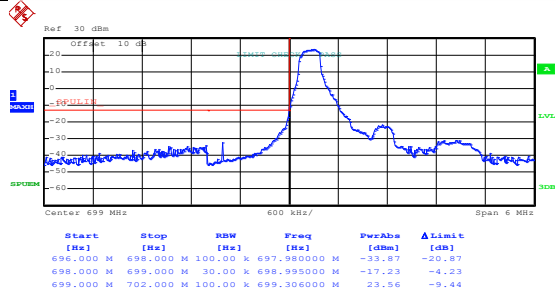
Date: 3.JUL.2017 10:47:04

Highest channel

LTE band 12 part:

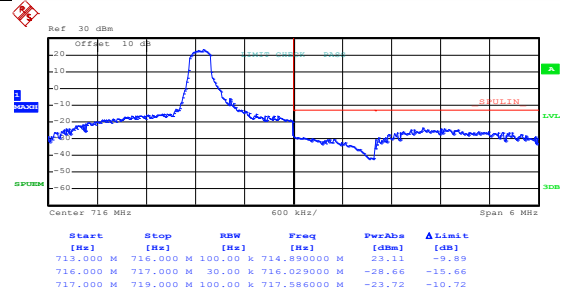
1.4MHz:

Test Mode: LTE band 12 (QPSK RB Size 1 &RB Offset 0)



Date: 3.JUL.2017 11:56:31

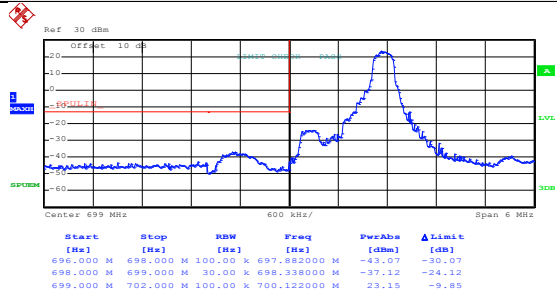
Lowest channel



Date: 3.JUL.2017 11:59:28

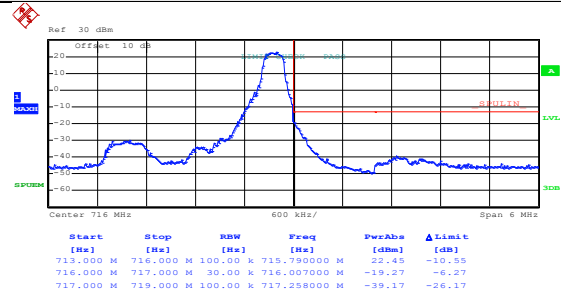
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 1 &RB Offset 5)



Date: 3.JUL.2017 11:57:57

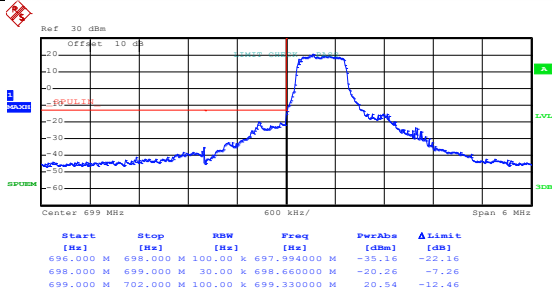
Lowest channel



Date: 3.JUL.2017 11:59:50

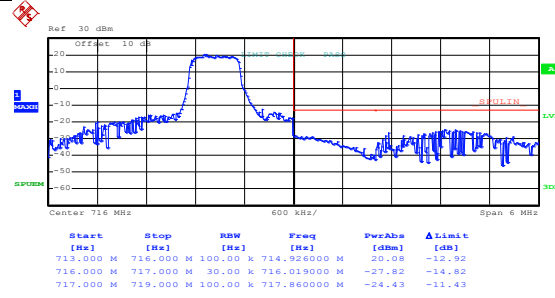
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 3 &RB Offset 0)



Date: 3.JUL.2017 11:58:10

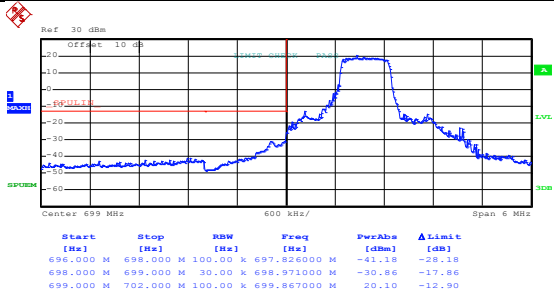
Lowest channel



Date: 3.JUL.2017 12:00:27

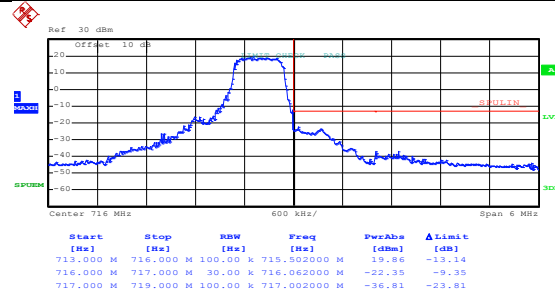
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 3 &RB Offset 2)



Date: 3.JUL.2017 11:58:27

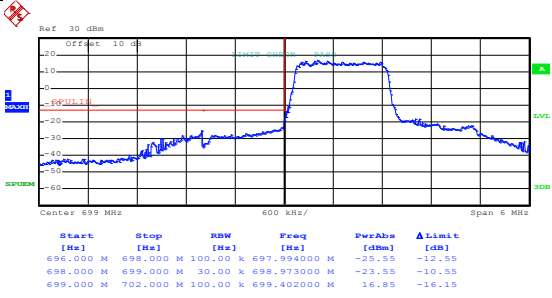
Lowest channel



Date: 3.JUL.2017 12:00:45

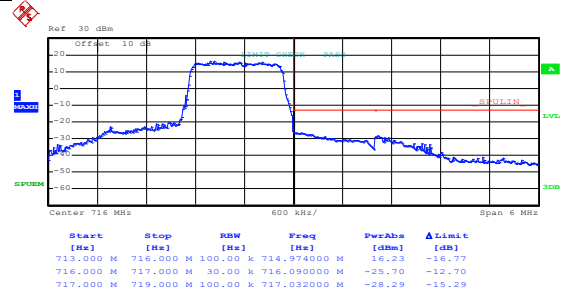
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 6 &RB Offset 0)



Date: 3.JUL.2017 11:58:47

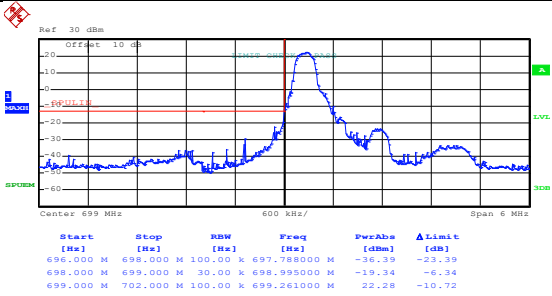
Lowest channel



Date: 3.JUL.2017 12:01:03

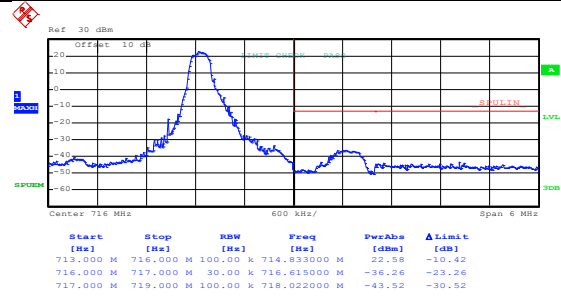
Highest channel

Test Mode: LTE band 12 (16QAM RB Size 1 &RB Offset 0)



Date: 3.JUL.2017 11:56:38

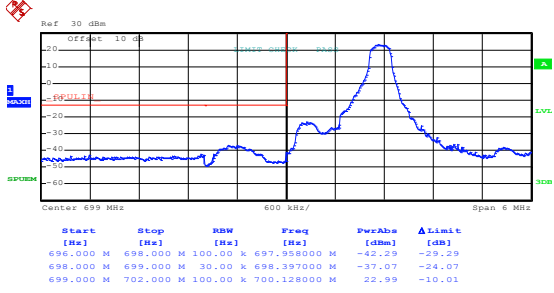
Lowest channel



Date: 3.JUL.2017 11:59:35

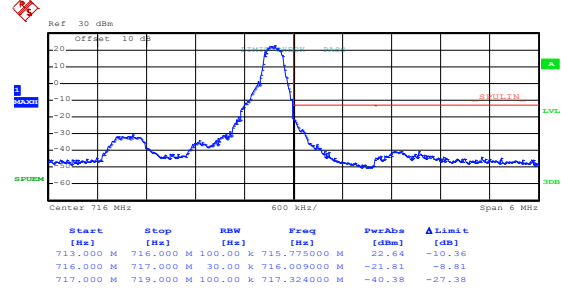
Highest channel

Test Mode: LTE band 12 (16QAM RB Size 1 &RB Offset 5)



Date: 3.JUL.2017 11:57:50

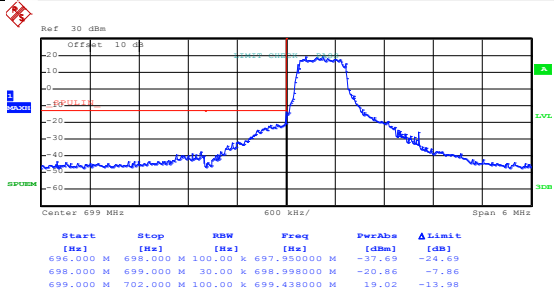
Lowest channel



Date: 3.JUL.2017 11:59:58

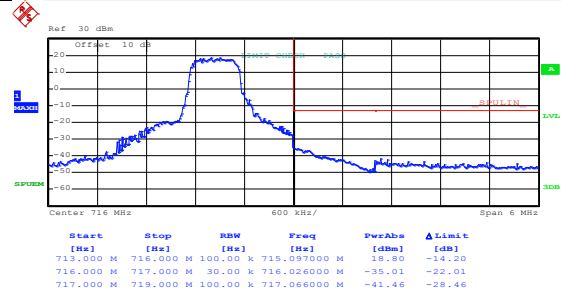
Highest channel

Test Mode: LTE band 12 (16QAM RB Size 3 &RB Offset 0)



Date: 3.JUL.2017 11:58:17

Lowest channel

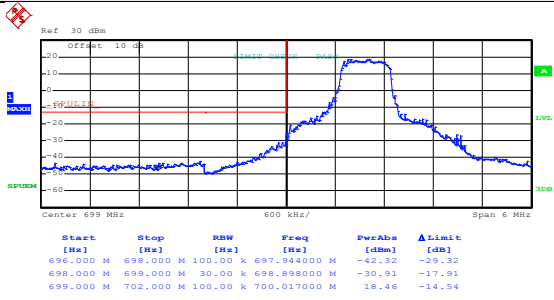


Date: 3.JUL.2017 12:00:34

Highest channel

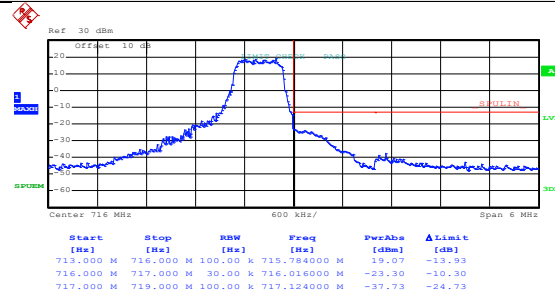


Test Mode: LTE band 12 (16QAM RB Size 3 &RB Offset 2)



Date: 3.JUL.2017 11:58:35

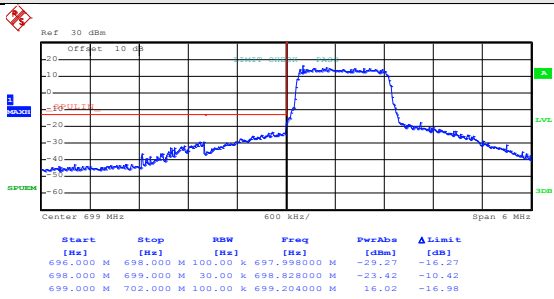
Lowest channel



Date: 3.JUL.2017 12:00:53

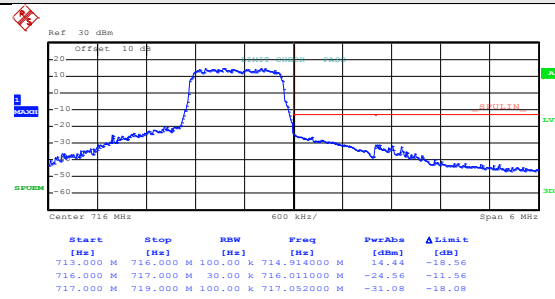
Highest channel

Test Mode: LTE band 12 (16QAM RB Size 6 &RB Offset 0)



Date: 3.JUL.2017 11:58:53

Lowest channel

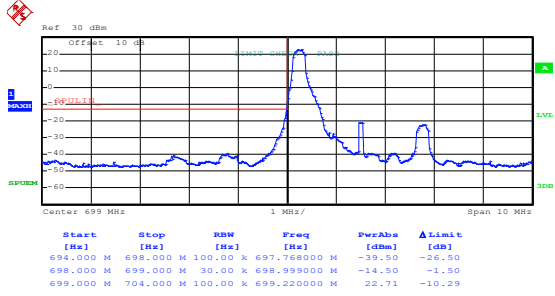


Date: 3.JUL.2017 12:01:09

Highest channel

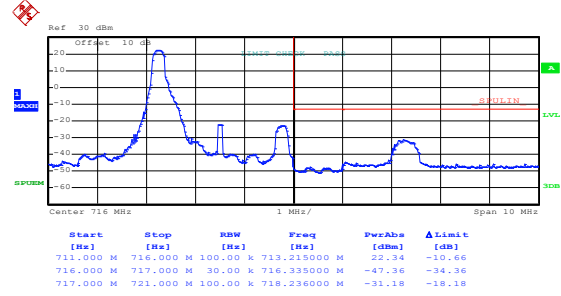
3MHz:

Test Mode: LTE band 12 (QPSK RB Size 1 &RB Offset 0)



Date: 3.JUL.2017 12:02:01

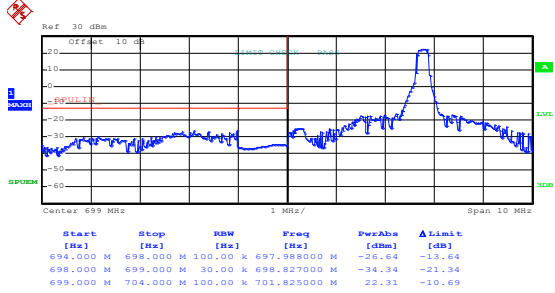
Lowest channel



Date: 3.JUL.2017 12:04:16

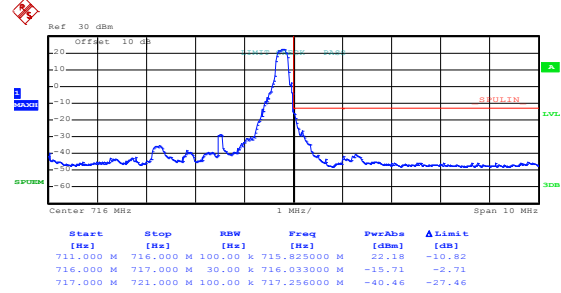
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 1 &RB Offset 14)



Date: 3.JUL.2017 12:02:24

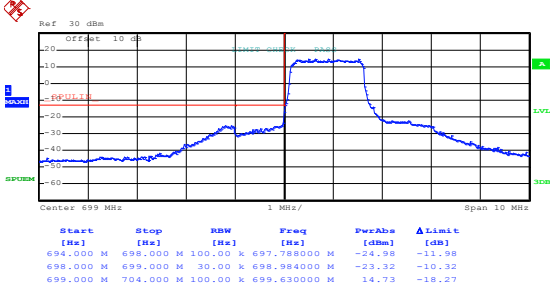
Lowest channel



Date: 3.JUL.2017 12:04:33

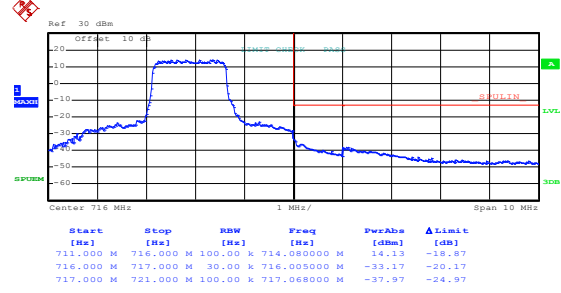
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 8 &RB Offset 0)



Date: 3.JUL.2017 12:02:56

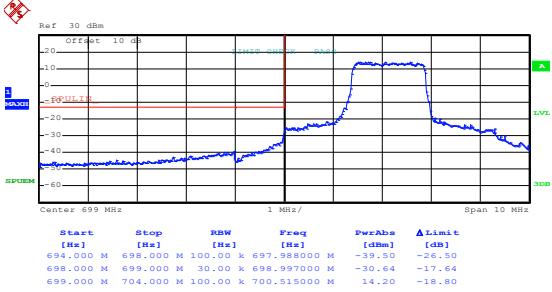
Lowest channel



Date: 3.JUL.2017 12:04:54

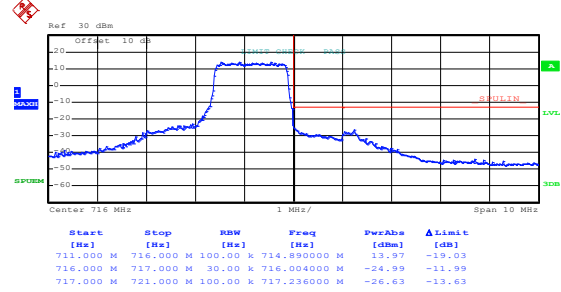
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 8 &RB Offset 7)



Date: 3.JUL.2017 12:03:15

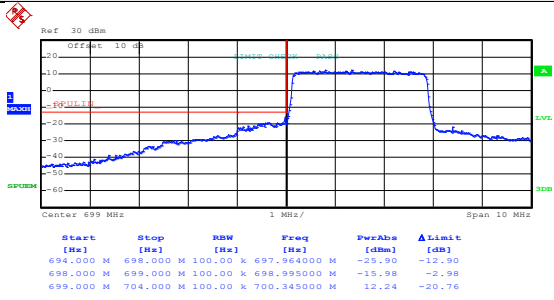
Lowest channel



Date: 3.JUL.2017 12:05:12

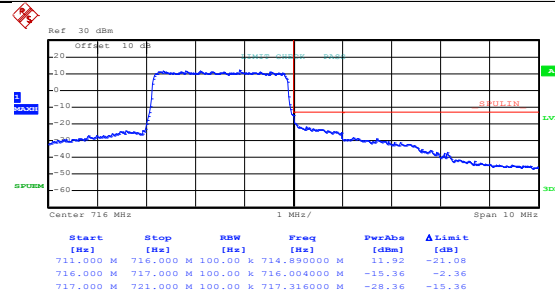
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 15 &RB Offset 0)



Date: 3.JUL.2017 12:03:39

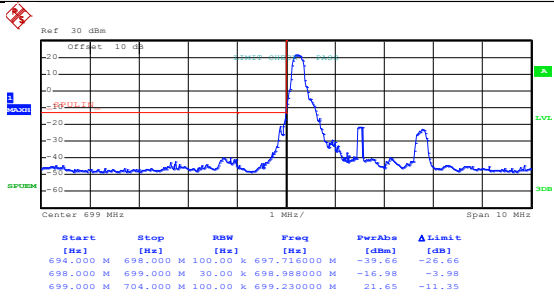
Lowest channel



Date: 3.JUL.2017 12:05:37

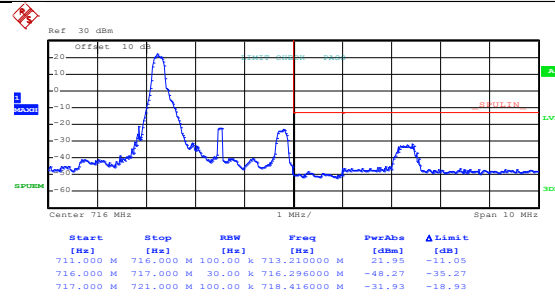
Highest channel

Test Mode: LTE band 12(16QAM RB Size 1 &RB Offset 0)



Date: 3.JUL.2017 12:02:08

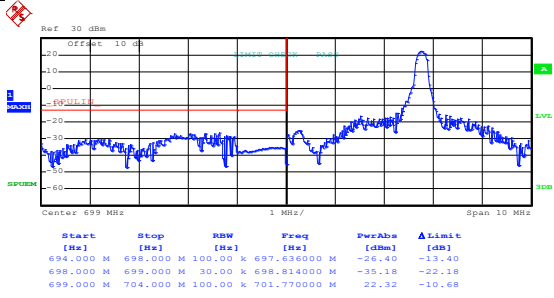
Lowest channel



Date: 3.JUL.2017 12:04:23

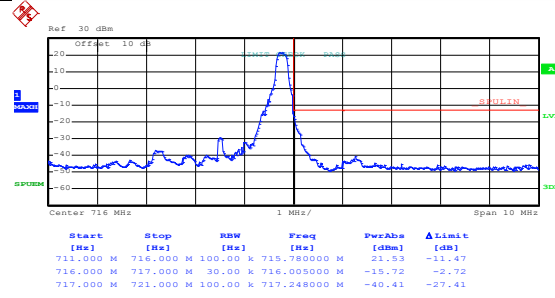
Highest channel

Test Mode: LTE band 12(16QAM RB Size 1 &RB Offset 14)



Date: 3.JUL.2017 12:02:36

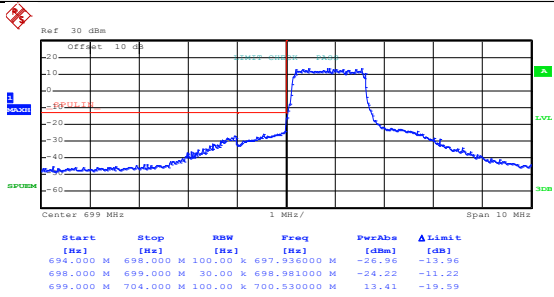
Lowest channel



Date: 3.JUL.2017 12:04:42

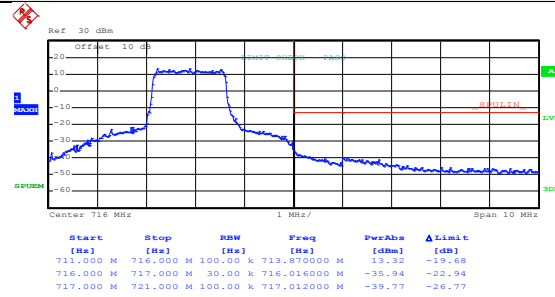
Highest channel

Test Mode: LTE band 12(16QAM RB Size 8 &RB Offset 0)



Date: 3.JUL.2017 12:03:03

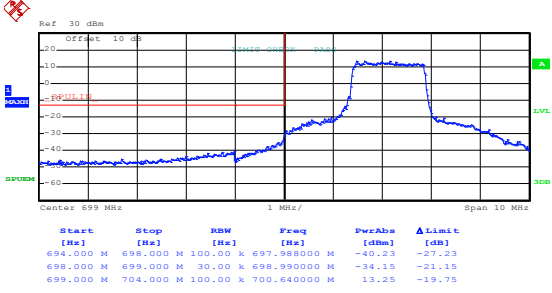
Lowest channel



Date: 3.JUL.2017 12:05:01

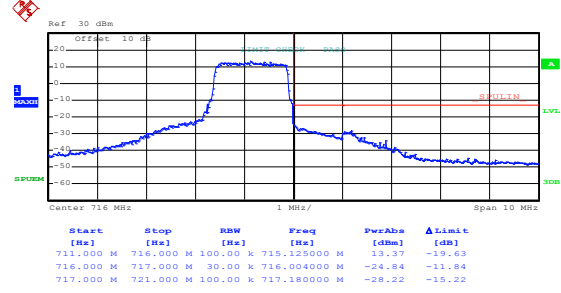
Highest channel

Test Mode: LTE band 12(16QAM RB Size 8 &RB Offset 7)



Date: 3.JUL.2017 12:03:24

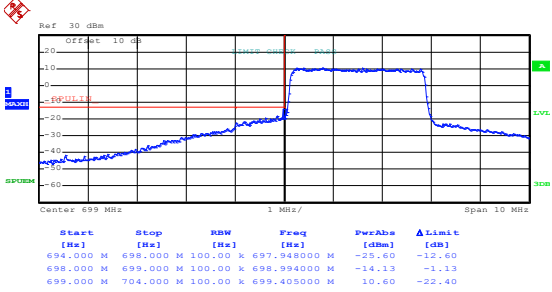
Lowest channel



Date: 3.JUL.2017 12:05:21

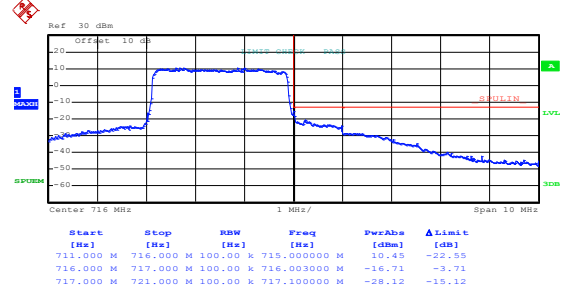
Highest channel

Test Mode: LTE band 12(16QAM RB Size 15 &RB Offset 0)



Date: 3.JUL.2017 12:03:45

Lowest channel

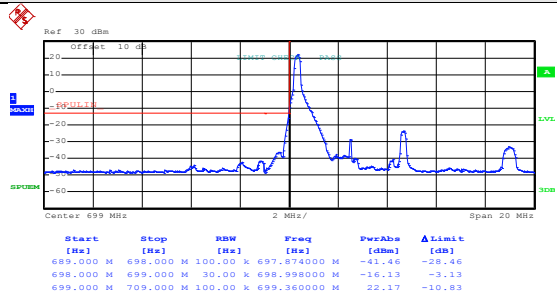


Date: 3.JUL.2017 12:05:44

Highest channel

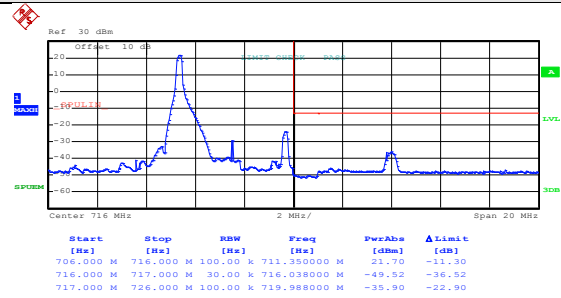
5MHz:

Test Mode: LTE band 12(QPSK RB Size 1 &RB Offset 0)



Date: 3.JUL.2017 12:06:43

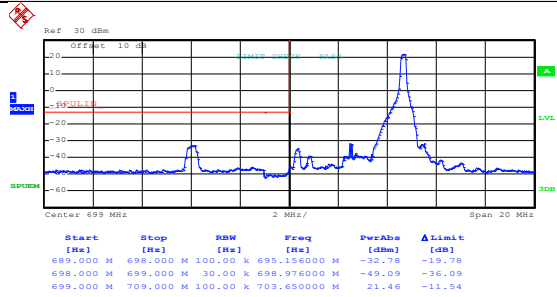
Lowest channel



Date: 3.JUL.2017 12:08:44

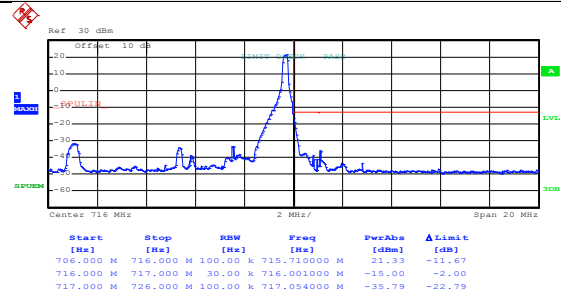
Highest channel

Test Mode: LTE band 12(QPSK RB Size 1 &RB Offset 24)



Date: 3.JUL.2017 12:07:02

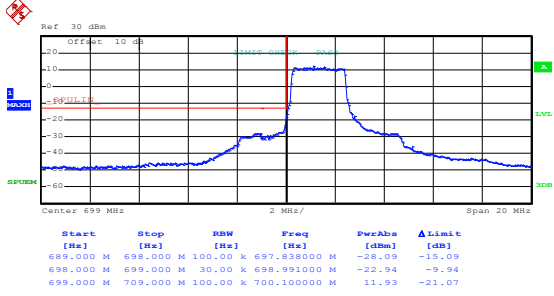
Lowest channel



Date: 3.JUL.2017 12:09:04

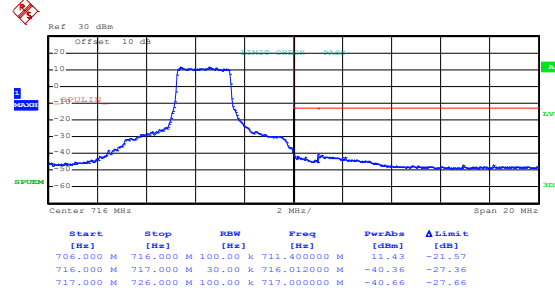
Highest channel

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



Date: 3.JUL.2017 12:07:25

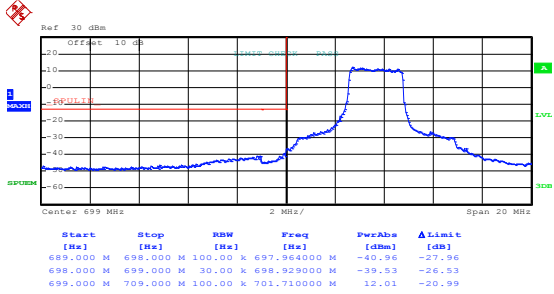
Lowest channel



Date: 3.JUL.2017 12:09:55

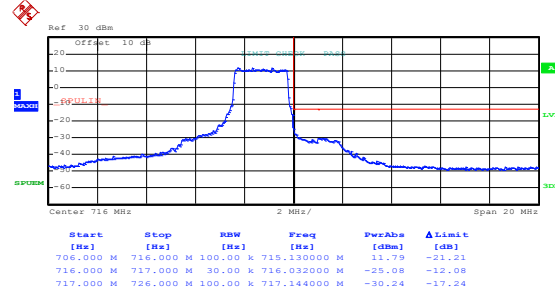
Highest channel

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



Date: 3.JUL.2017 12:07:45

Lowest channel

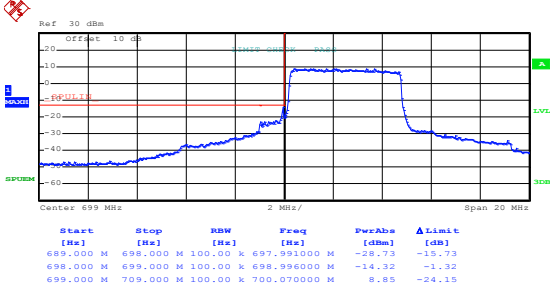


Date: 3.JUL.2017 12:10:16

Highest channel

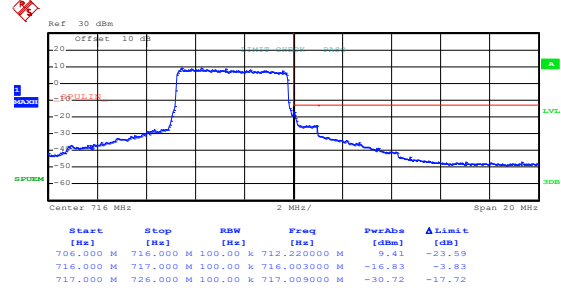


Test Mode: LTE band 12(QPSK RB Size 25 &RB Offset 0)



Date: 3.JUL.2017 12:08:10

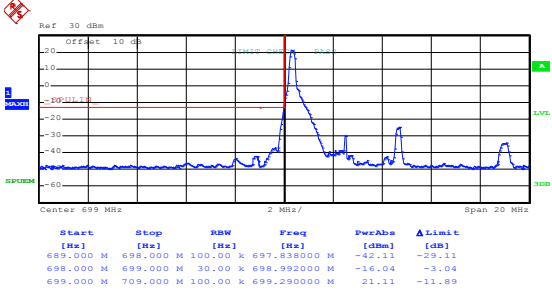
Lowest channel



Date: 3.JUL.2017 12:10:47

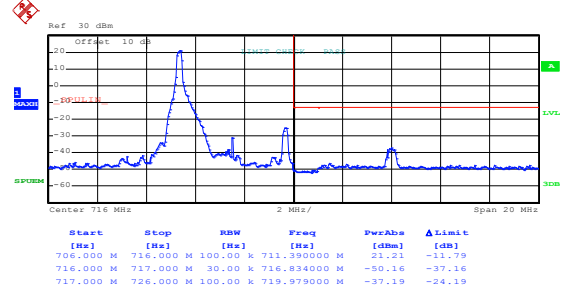
Highest channel

Test Mode: LTE band 12(16QAM RB Size 1 &RB Offset 0)



Date: 3.JUL.2017 12:06:51

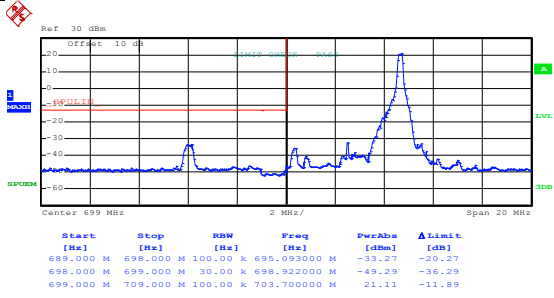
Lowest channel



Date: 3.JUL.2017 12:08:52

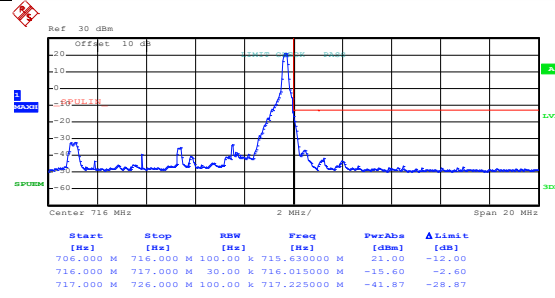
Highest channel

Test Mode: LTE band 12(16QAM RB Size 1 &RB Offset 24)



Date: 3.JUL.2017 12:07:10

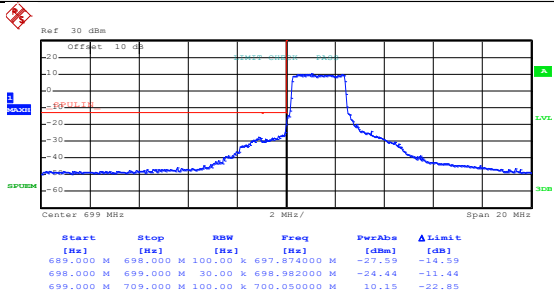
Lowest channel



Date: 3.JUL.2017 12:09:14

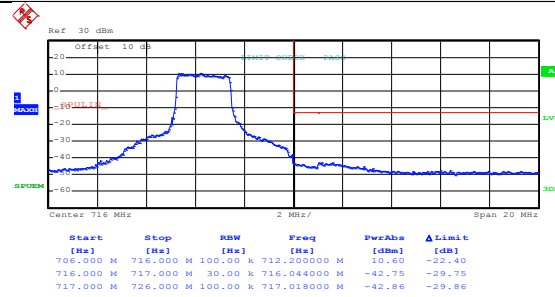
Highest channel

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



Date: 3.JUL.2017 12:07:33

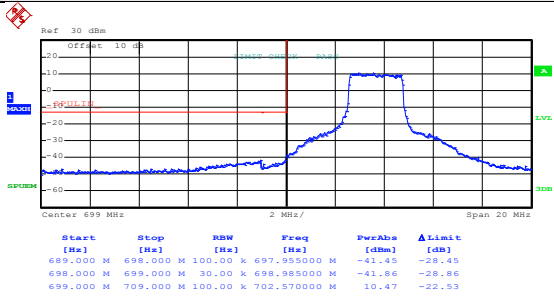
Lowest channel



Date: 3.JUL.2017 12:10:02

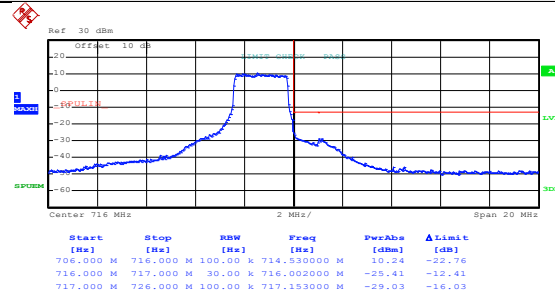
Highest channel

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



Date: 3.JUL.2017 12:07:53

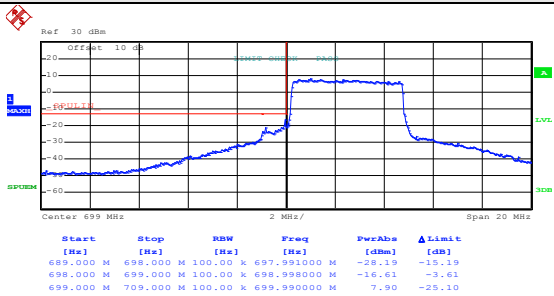
Lowest channel



Date: 3.JUL.2017 12:10:25

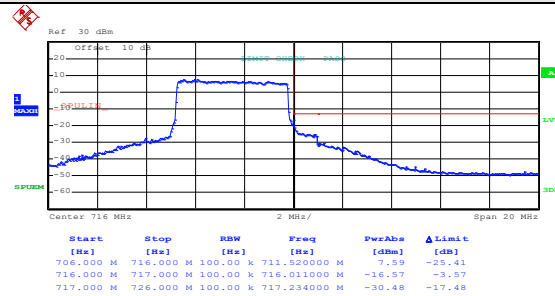
Highest channel

Test Mode: LTE band 12(16QAM RB Size 25 &RB Offset 0)



Date: 3.JUL.2017 12:08:17

Lowest channel

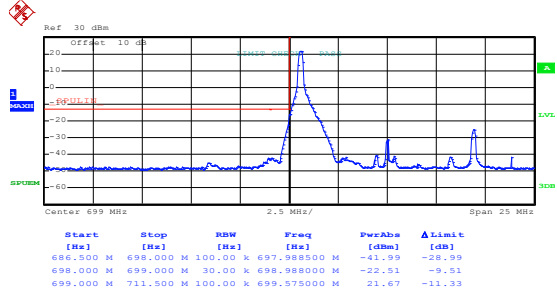


Date: 3.JUL.2017 12:10:54

Highest channel

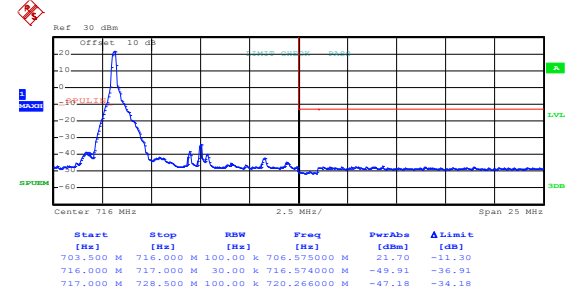
10MHz:

Test Mode: LTE band 12(QPSK RB Size 1 &RB Offset 0)



Date: 3.JUL.2017 12:11:48

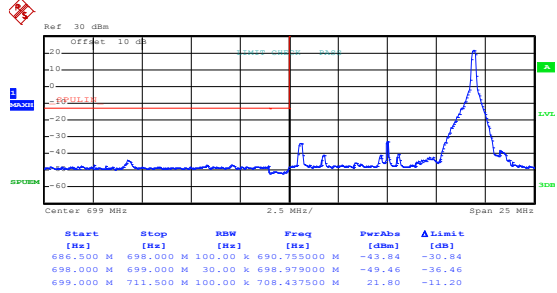
Lowest channel



Date: 3.JUL.2017 12:14:26

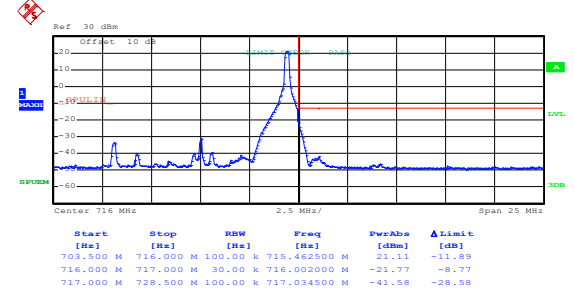
Highest channel

Test Mode: LTE band 12(QPSK RB Size 1 &RB Offset 49)



Date: 3.JUL.2017 12:12:05

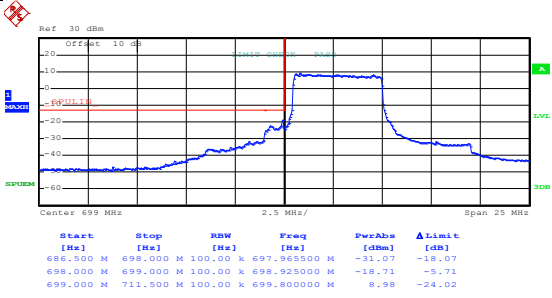
Lowest channel



Date: 3.JUL.2017 12:14:43

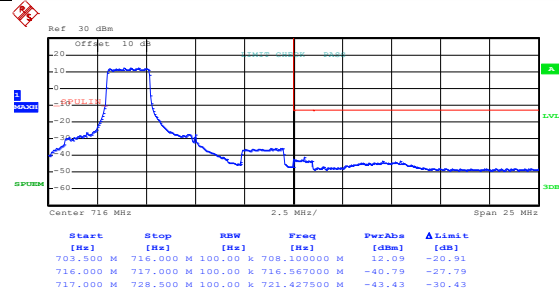
Highest channel

Test Mode: LTE band 12(QPSK RB Size 25 &RB Offset 0)



Date: 3.JUL.2017 12:12:33

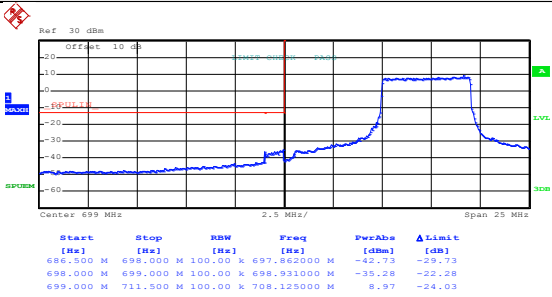
Lowest channel



Date: 3.JUL.2017 12:15:11

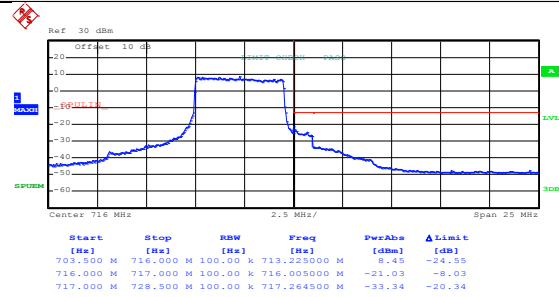
Highest channel

Test Mode: LTE band 12(QPSK RB Size 25 &RB Offset 24)



Date: 3.JUL.2017 12:12:53

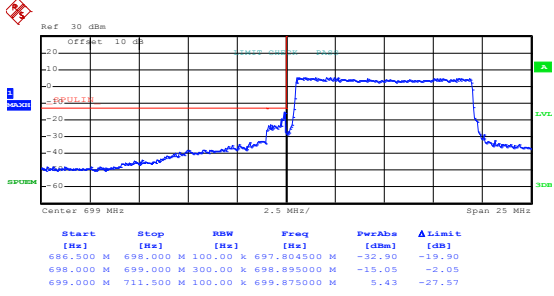
Lowest channel



Date: 3.JUL.2017 12:15:31

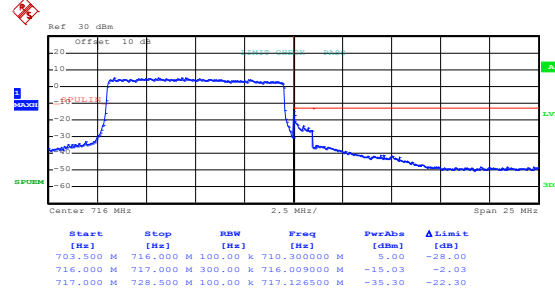
Highest channel

Test Mode: LTE band 12(QPSK RB Size 50 &RB Offset 0)



Date: 3.JUL.2017 12:13:20

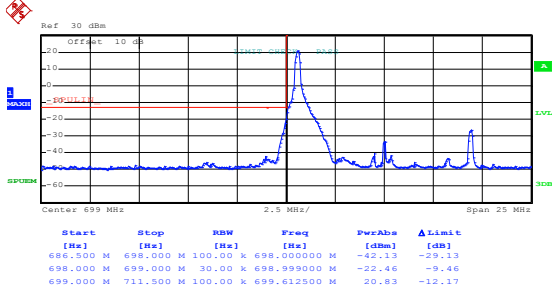
Lowest channel



Date: 3.JUL.2017 12:16:03

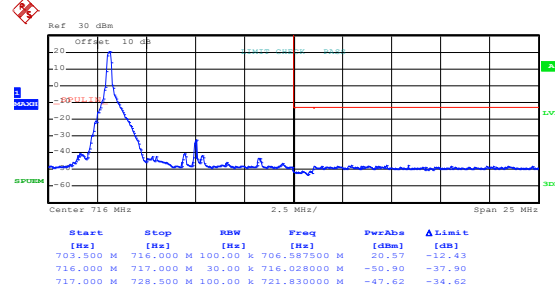
Highest channel

Test Mode: LTE band 12(16QAM RB Size 1 &RB Offset 0)



Date: 3.JUL.2017 12:11:55

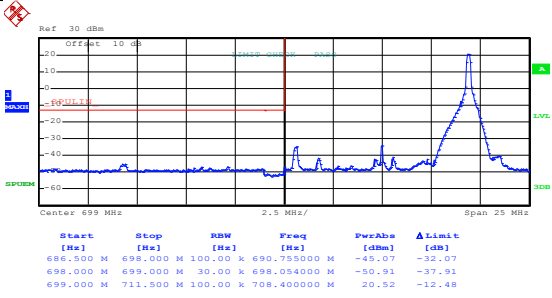
Lowest channel



Date: 3.JUL.2017 12:14:33

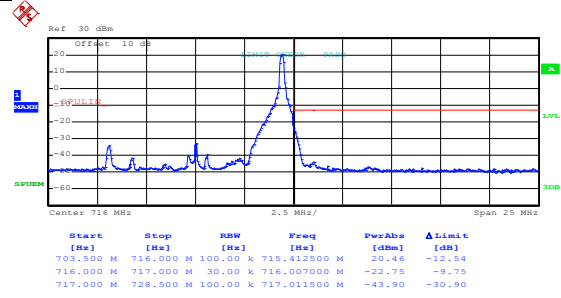
Highest channel

Test Mode: LTE band 12(16QAM RB Size 1 &RB Offset 49)



Date: 3.JUL.2017 12:12:13

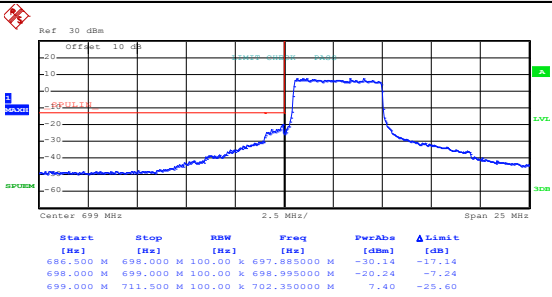
Lowest channel



Date: 3.JUL.2017 12:14:51

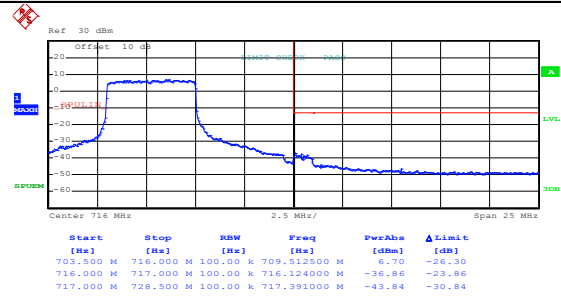
Highest channel

Test Mode: LTE band 12(16QAM RB Size 25 &RB Offset 0)



Date: 3.JUL.2017 12:12:40

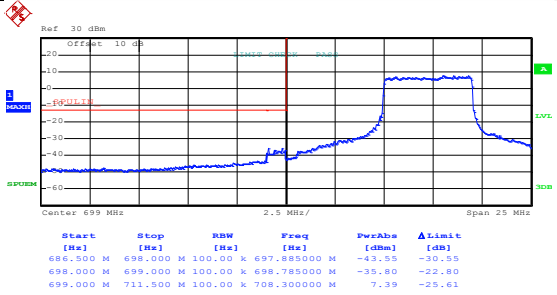
Lowest channel



Date: 3.JUL.2017 12:15:18

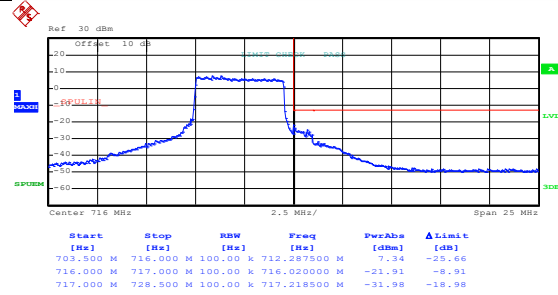
Highest channel

Test Mode: LTE band 12(16QAM RB Size 25 &RB Offset 24)



Date: 3.JUL.2017 12:13:01

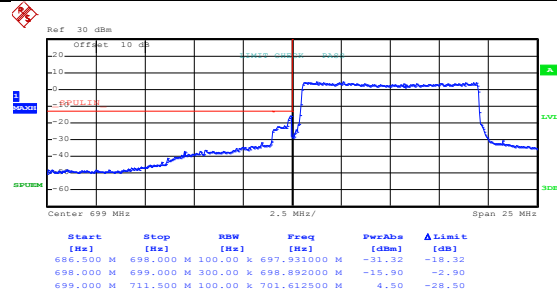
Lowest channel



Date: 3.JUL.2017 12:15:39

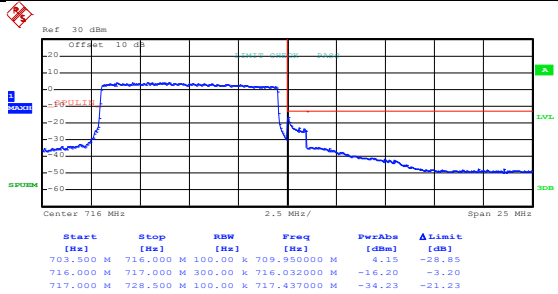
Highest channel

Test Mode: LTE band 12 (16QAM RB Size 50 &RB Offset 0)



Date: 3.JUL.2017 12:13:27

Lowest channel



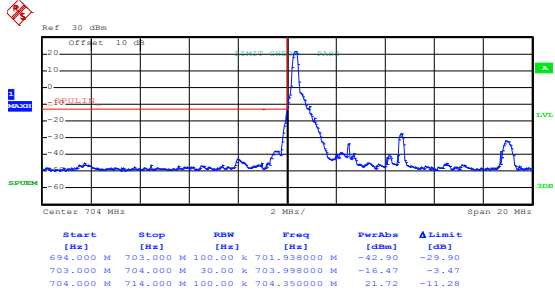
Date: 3.JUL.2017 12:16:10

Highest channel



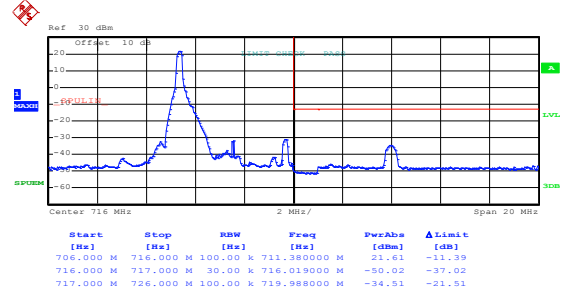
## LTE band 17 part:5MHz:

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



Date: 3.JUL.2017 11:35:06

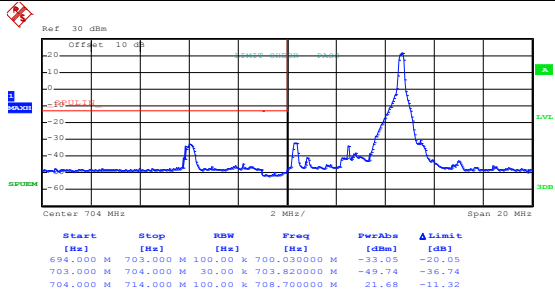
Lowest channel



Date: 3.JUL.2017 11:37:05

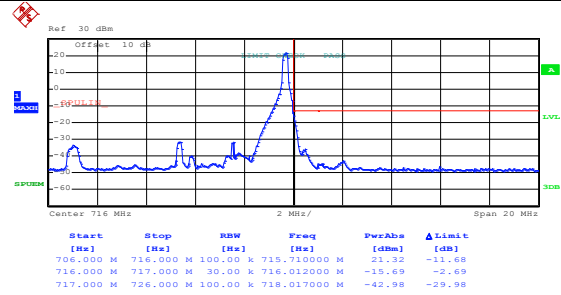
Highest channel

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



Date: 3.JUL.2017 11:35:25

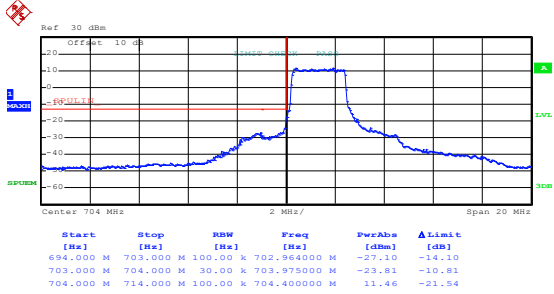
Lowest channel



Date: 3.JUL.2017 11:37:27

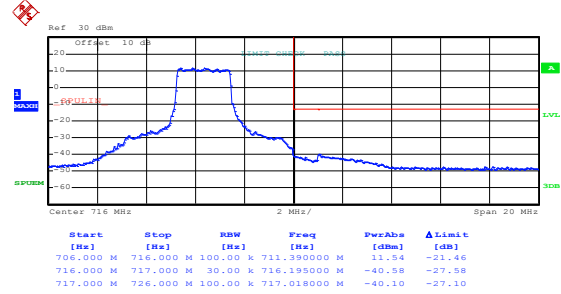
Highest channel

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



Date: 3.JUL.2017 11:35:47

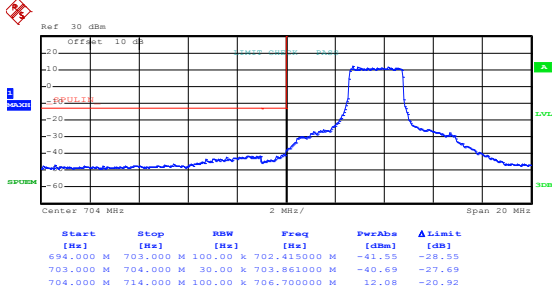
Lowest channel



Date: 3.JUL.2017 11:37:47

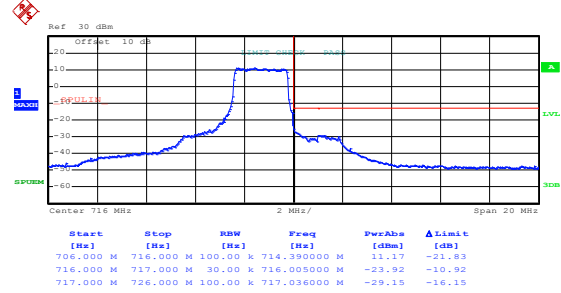
Highest channel

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



Date: 3.JUL.2017 11:36:06

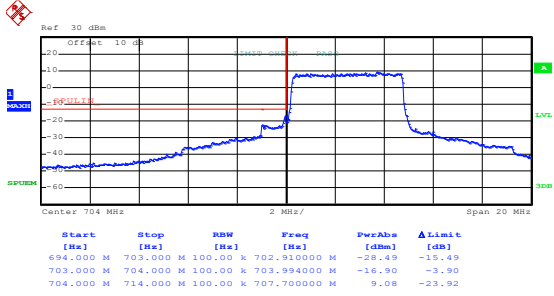
Lowest channel



Date: 3.JUL.2017 11:38:23

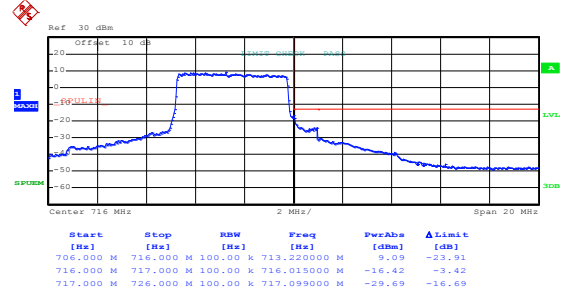
Highest channel

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



Date: 3.JUL.2017 11:36:30

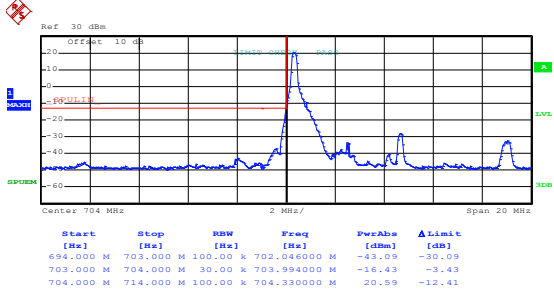
Lowest channel



Date: 3.JUL.2017 11:38:51

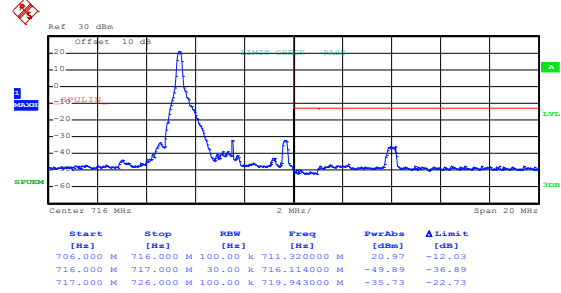
Highest channel

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



Date: 3.JUL.2017 11:35:14

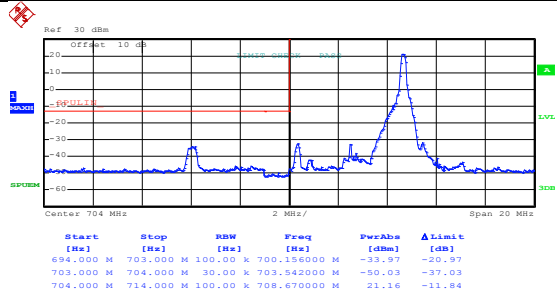
Lowest channel



Date: 3.JUL.2017 11:37:13

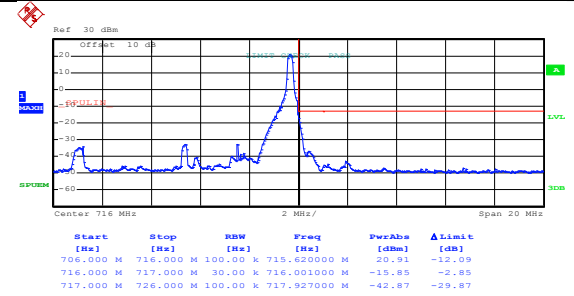
Highest channel

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



Date: 3.JUL.2017 11:35:34

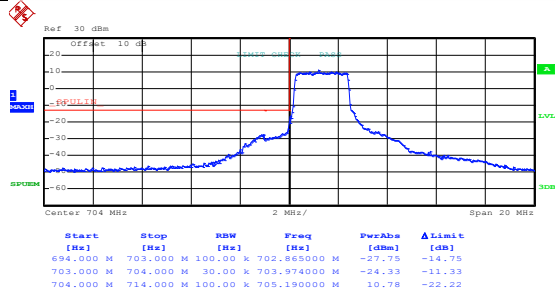
Lowest channel



Date: 3.JUL.2017 11:37:35

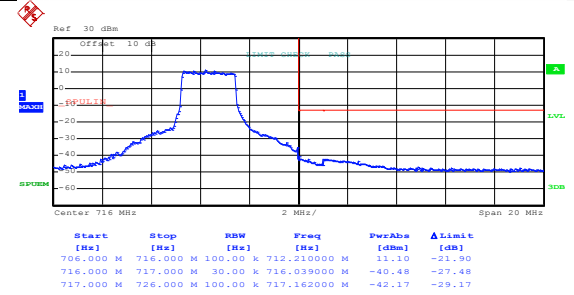
Highest channel

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



Date: 3.JUL.2017 11:35:53

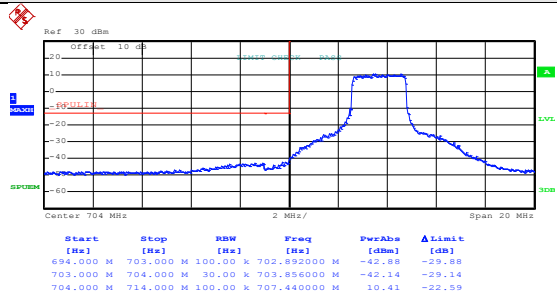
Lowest channel



Date: 3.JUL.2017 11:38:09

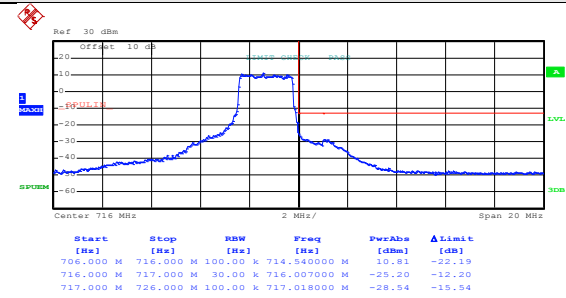
Highest channel

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



Date: 3.JUL.2017 11:36:14

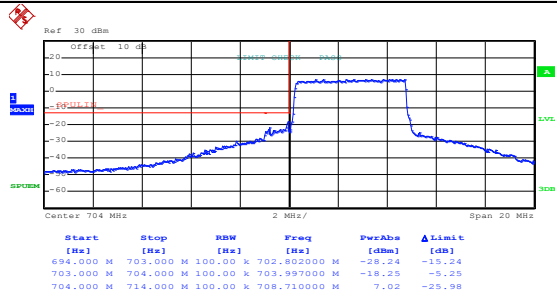
Lowest channel



Date: 3.JUL.2017 11:38:32

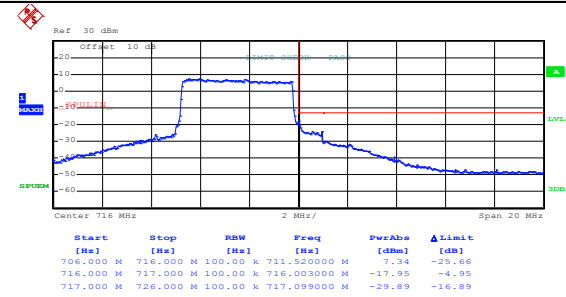
Highest channel

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



Date: 3.JUL.2017 11:36:36

Lowest channel

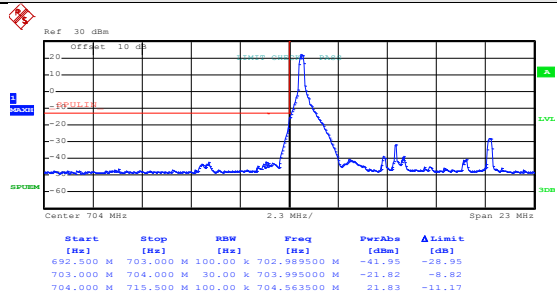


Date: 3.JUL.2017 11:38:59

Highest channel

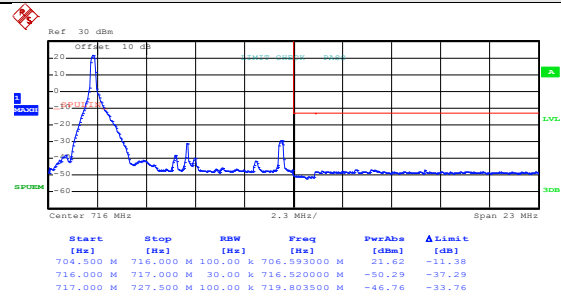
10MHz:

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



Date: 3.JUL.2017 11:42:09

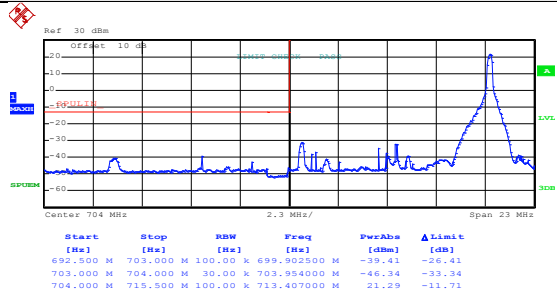
Lowest channel



Date: 3.JUL.2017 11:45:38

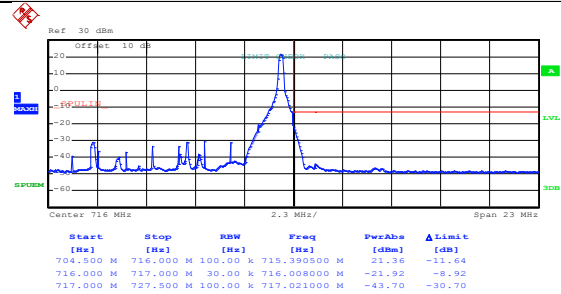
Highest channel

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



Date: 3.JUL.2017 11:43:53

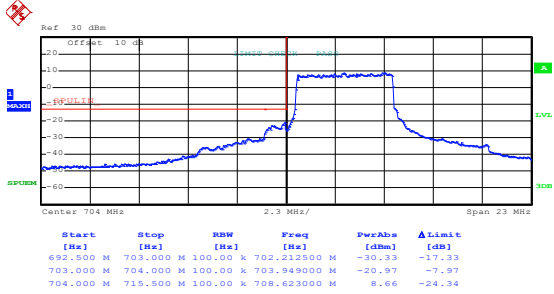
Lowest channel



Date: 3.JUL.2017 11:45:56

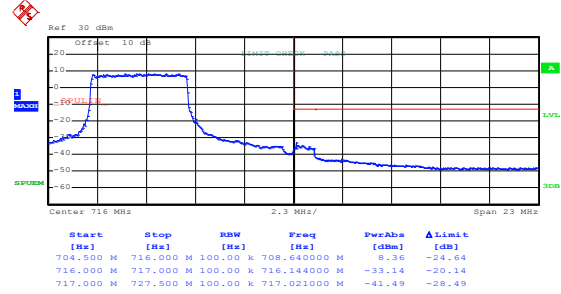
Highest channel

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



Date: 3.JUL.2017 11:44:23

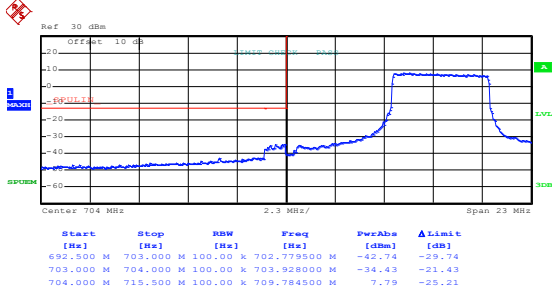
Lowest channel



Date: 3.JUL.2017 11:46:21

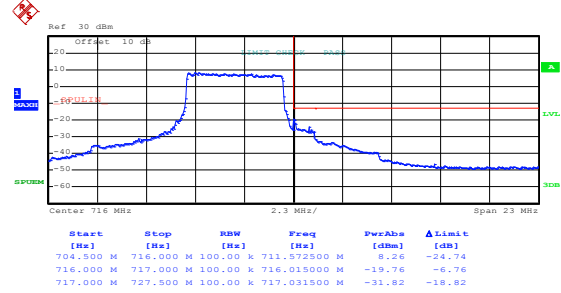
Highest channel

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



Date: 3.JUL.2017 11:44:40

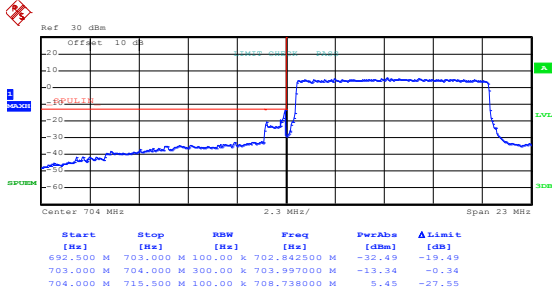
Lowest channel



Date: 3.JUL.2017 11:46:39

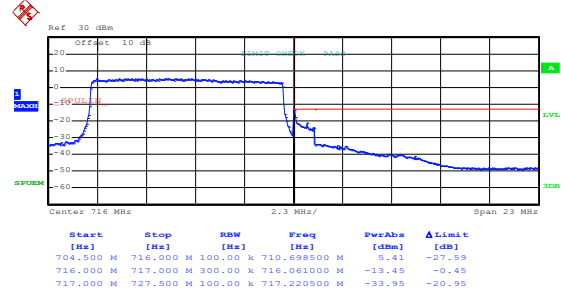
Highest channel

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



Date: 3.JUL.2017 11:45:02

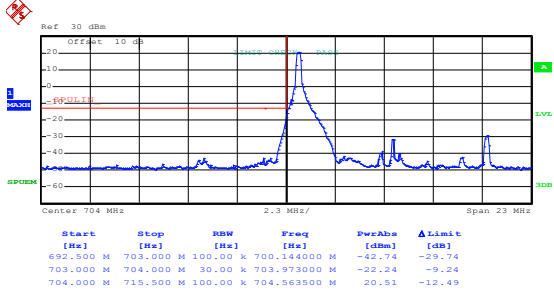
Lowest channel



Date: 3.JUL.2017 11:47:05

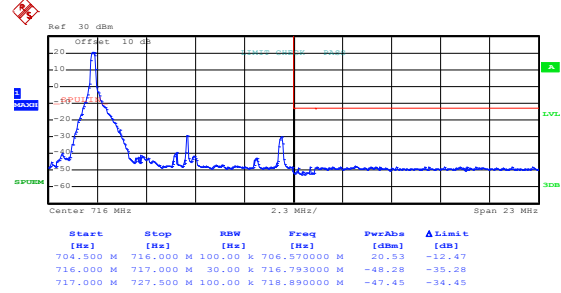
Highest channel

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



Date: 3.JUL.2017 11:43:34

Lowest channel

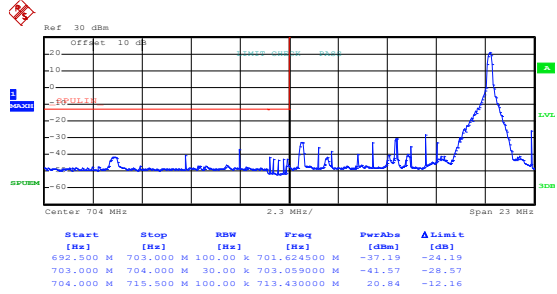


Date: 3.JUL.2017 11:45:45

Highest channel

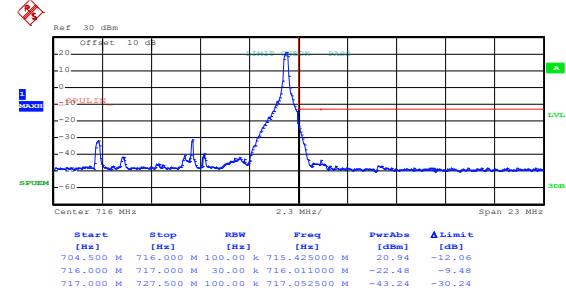


Test Mode: LTE band 17(16QAM RB Size 1& RB Offset 49)



Date: 3.JUL.2017 11:44:02

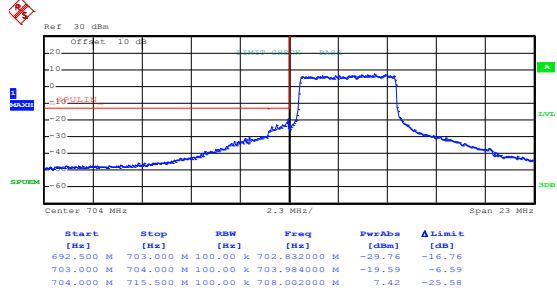
Lowest channel



Date: 3.JUL.2017 11:46:04

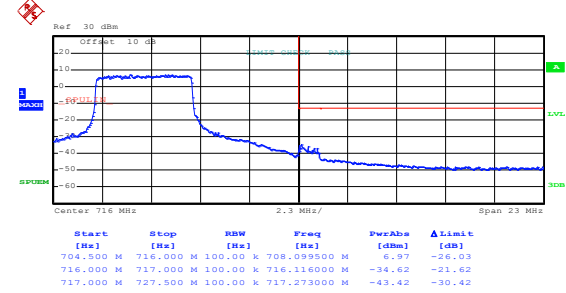
Highest channel

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



Date: 3.JUL.2017 11:44:29

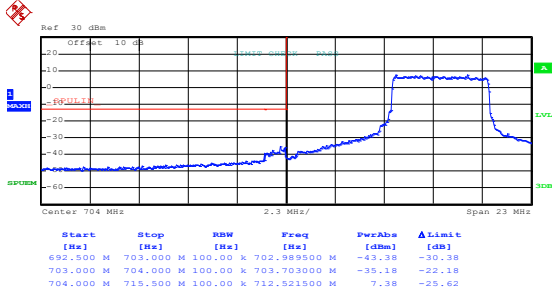
Lowest channel



Date: 3.JUL.2017 11:46:28

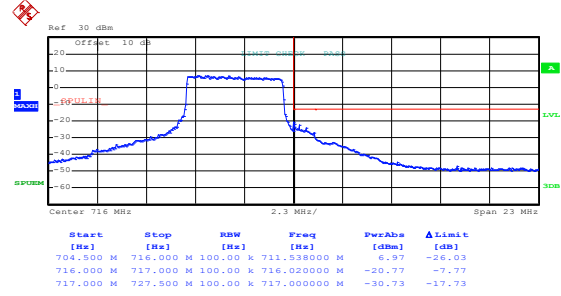
Highest channel

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



Date: 3.JUL.2017 11:44:48

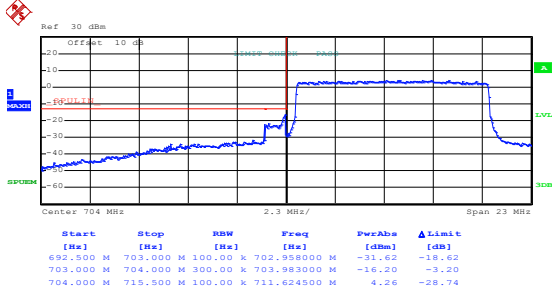
Lowest channel



Date: 3.JUL.2017 11:46:49

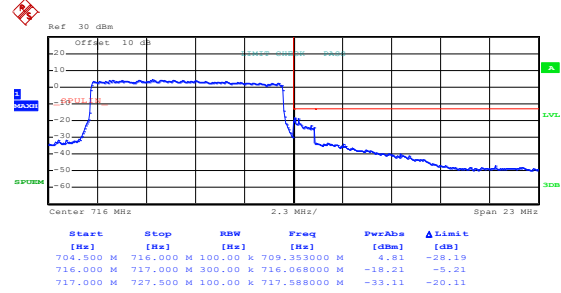
Highest channel

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



Date: 3.JUL.2017 11:45:09

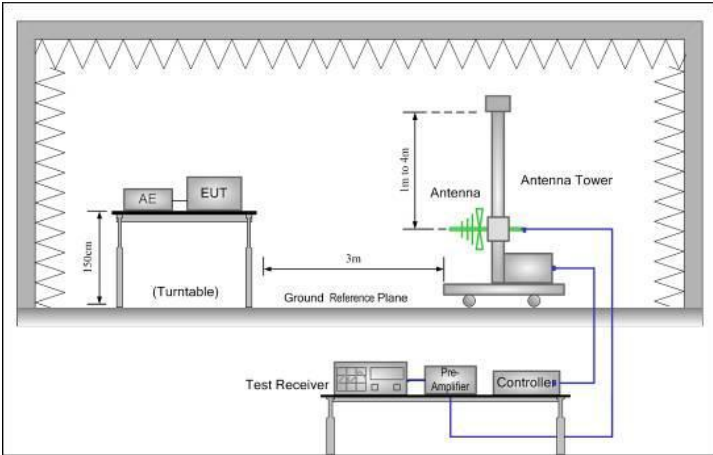
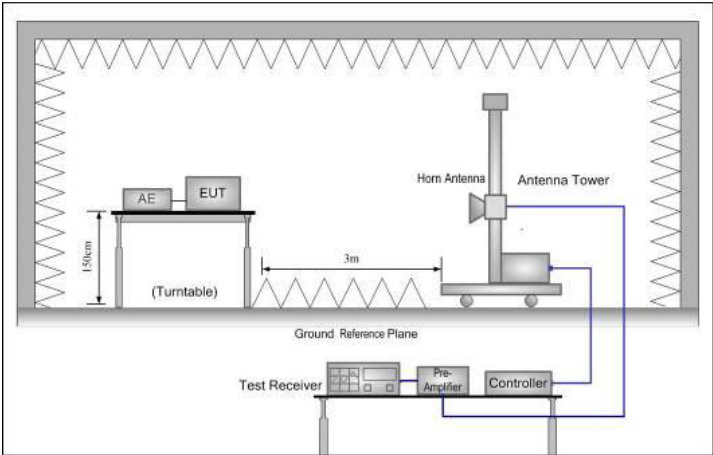
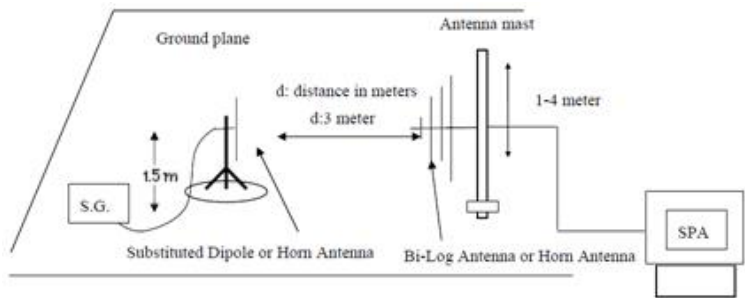
Lowest channel



Date: 3.JUL.2017 11:47:12

Highest channel

## 6.10 ERP, EIRP Measurement

Test Requirement:	FCC part24.232 (c),part 27.50(c),part 27.50(d), part 27.50 (h), part 22.913 (a)
Test Method:	FCC part2.1046
Limit:	LTE Band 2: 2W EIRP LTE Band 4: 1W EIRP LTE Band 5: 7W EIRP LTE Band 7: 2W EIRP LTE Band 12: 3W ERP 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	25.04	33.00	Pass
					H	20.37		
1850.70	18607	16QAM	1.4	H	V	24.69		
					H	19.71		
1.4MHz(RB size 3 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	24.60	33.00	Pass
					H	20.07		
1850.70	18607	16QAM	1.4	H	V	24.97		
					H	19.15		
1.4MHz(RB size 6 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	24.10	33.00	Pass
					H	19.10		
1850.70	18607	16QAM	1.4	H	V	24.27		
					H	18.47		

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	25.64	33.00	Pass
					H	21.34		
1880.00	18900	16QAM	1.4	H	V	24.78		
					H	20.01		
1.4MHz(RB size 3 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	24.65	33.00	Pass
					H	20.52		
1880.00	18900	16QAM	1.4	H	V	24.77		
					H	20.13		
1.4MHz(RB size 6 & RB offset 0)								
1880.00	18900	QPSK	1.40	H	V	24.26	33.00	Pass
					H	19.65		
1880.00	18900	16QAM	1.40	H	V	24.73		
					H	18.44		

### 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	25.23	33.00	Pass
					H	21.77		
1909.30	19193	16QAM	1.4	H	V	24.36		
					H	20.23		
1.4MHz(RB size 3 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	24.77	33.00	Pass
					H	21.34		
1909.30	19193	16QAM	1.4	H	V	24.59		
					H	21.32		
1.4MHz(RB size 6 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	24.22	33.00	Pass
					H	20.69		
1909.30	19193	16QAM	1.4	H	V	24.75		
					H	18.49		

### 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	24.56	33.00	Pass
					H	19.92		
1860.00	18700	16QAM	20	H	V	25.06		
					H	19.35		
20MHz(RB size 50 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	24.13	33.00	Pass
					H	18.93		
1860.00	18700	16QAM	20	H	V	24.39		
					H	19.35		
20MHz(RB size 100 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	22.94	33.00	Pass
					H	17.56		
1860.00	18700	16QAM	20	H	V	23.43		
					H	17.12		

### 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	23.63	33.00	Pass
					H	20.16		
1880.00	18900	16QAM	20	H	V	25.79		
					H	19.44		
20MHz(RB size 50 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	24.16	33.00	Pass
					H	19.68		
1880.00	18900	16QAM	20	H	V	23.26		
					H	20.47		
20MHz(RB size 100 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	22.45	33.00	Pass
					H	19.60		
1880.00	18900	16QAM	20	H	V	22.47		
					H	18.46		

### 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	23.47	33.00	Pass
					H	20.12		
1900.00	19100	16QAM	20	H	V	25.78		
					H	19.65		
20MHz(RB size 50 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	23.65	33.00	Pass
					H	19.47		
1900.00	19100	16QAM	20	H	V	23.16		
					H	21.47		
20MHz(RB size 100 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	23.59	33.00	Pass
					H	20.47		
1900.00	19100	16QAM	20	H	V	23.19		
					H	19.78		

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	22.48	30.00	Pass
					H	20.17		
1710.70	19957	16QAM	1.4	H	V	22.42		
					H	20.15		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	22.17	30.00	Pass
					H	19.82		
1710.70	19957	16QAM	1.4	H	V	22.26		
					H	19.90		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.14	30.00	Pass
					H	18.83		
1710.70	19957	16QAM	1.4	H	V	21.48		
					H	18.96		

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	22.52	30.00	Pass
					H	20.13		
1732.50	20175	16QAM	1.4	H	V	22.47		
					H	20.56		
1.4MHz(RB size 3 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	22.46	30.00	Pass
					H	20.65		
1732.50	20175	16QAM	1.4	H	V	22.36		
					H	19.78		
1.4MHz(RB size 6 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	21.57	30.00	Pass
					H	19.32		
1732.50	20175	16QAM	1.4	H	V	21.44		
					H	19.32		



### 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	23.24	30.00	Pass
					H	20.16		
1754.30	20393	16QAM	1.4	H	V	22.10		
					H	20.46		
1.4MHz(RB size 3 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	22.47	30.00	Pass
					H	20.16		
1754.30	20393	16QAM	1.4	H	V	22.48		
					H	20.19		
1.4MHz(RB size 6 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	21.77	30.00	Pass
					H	20.19		
1754.30	20393	16QAM	1.4	H	V	21.44		
					H	19.32		

### 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	22.44	30.00	Pass
					H	20.37		
1720.00	20050	16QAM	20	H	V	22.81		
					H	19.82		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	22.35	30.00	Pass
					H	20.00		
1720.00	20050	16QAM	20	H	V	21.11		
					H	18.96		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	21.43	30.00	Pass
					H	19.11		
1720.00	20050	16QAM	20	H	V	21.46		
					H	18.71		

### 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	22.32	30.00	Pass
					H	20.19		
1732.50	20175	16QAM	20	H	V	22.48		
					H	20.47		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	22.59	30.00	Pass
					H	20.36		
1732.50	20175	16QAM	20	H	V	21.39		
					H	19.32		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	21.22	30.00	Pass
					H	19.35		
1732.50	20175	16QAM	20	H	V	21.47		
					H	18.26		

### 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	22.45	30.00	Pass
					H	21.26		
1745.00	20300	16QAM	20	H	V	22.32		
					H	20.17		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	22.42	30.00	Pass
					H	20.21		
1745.00	20300	16QAM	20	H	V	21.36		
					H	19.47		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	21.46	30.00	Pass
					H	20.03		
1745.00	20300	16QAM	20	H	V	21.77		
					H	19.43		

LTE band 5 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
824.70	20407	QPSK	1.4	H	V	26.89	38.45	Pass
					H	19.92		
824.70	20407	16QAM	1.4	H	V	26.83		
					H	20.14		
1.4MHz(RB size 3& RB offset 0)								
824.70	20407	QPSK	1.4	H	V	25.95	38.45	Pass
					H	19.96		
824.70	20407	16QAM	1.4	H	V	26.45		
					H	19.95		
1.4MHz(RB size 6& RB offset 0)								
824.70	20407	QPSK	1.4	H	V	24.81	38.45	Pass
					H	18.50		
824.70	20407	16QAM	1.4	H	V	25.06		
					H	18.13		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
836.50	20525	QPSK	1.4	H	V	25.24	38.45	Pass
					H	20.36		
836.50	20525	16QAM	1.4	H	V	26.78		
					H	20.15		
1.4MHz(RB size 3& RB offset 0)								
836.50	20525	QPSK	1.4	H	V	25.75	38.45	Pass
					H	19.43		
836.50	20525	16QAM	1.4	H	V	26.44		
					H	19.57		
1.4MHz(RB size 6& RB offset 0)								
836.50	20525	QPSK	1.4	H	V	24.15	38.45	Pass
					H	18.76		
836.50	20525	16QAM	1.4	H	V	25.43		
					H	19.32		

### Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
848.30	20643	QPSK	1.4	H	V	24.46	38.45	Pass
					H	20.45		
848.30	20643	16QAM	1.4	H	V	26.85		
					H	20.11		
1.4MHz(RB size 3& RB offset 0)								
848.30	20643	QPSK	1.4	H	V	25.44	38.45	Pass
					H	19.63		
848.30	20643	16QAM	1.4	H	V	26.23		
					H	20.12		
1.4MHz(RB size 6& RB offset 0)								
848.30	20643	QPSK	1.4	H	V	24.21	38.45	Pass
					H	18.62		
848.30	20643	16QAM	1.4	H	V	25.23		
					H	19.34		

### 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)								
829.00	20450	QPSK	10	H	V	23.61	38.45	Pass
					H	20.12		
829.00	20450	16QAM	10	H	V	26.42		
					H	20.13		
10MHz(RB size 25& RB offset 0)								
829.00	20450	QPSK	10	H	V	24.31	38.45	Pass
					H	19.26		
829.00	20450	16QAM	10	H	V	26.27		
					H	20.14		
10MHz(RB size 50& RB offset 0)								
829.00	20450	QPSK	10	H	V	24.16	38.45	Pass
					H	28.32		
829.00	20450	16QAM	10	H	V	25.47		
					H	20.13		

### 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)								
836.50	20525	QPSK	10	H	V	23.22	38.45	Pass
					H	20.26		
836.50	20525	16QAM	10	H	V	26.36		
					H	20.58		
10MHz(RB size 25& RB offset 0)								
836.50	20525	QPSK	10	H	V	24.36	38.45	Pass
					H	20.59		
836.50	20525	16QAM	10	H	V	26.55		
					H	20.25		
10MHz(RB size 50 & RB offset 0)								
836.50	20525	QPSK	10	H	V	24.59	38.45	Pass
					H	20.51		
836.50	20525	16QAM	10	H	V	25.37		
					H	20.25		

### High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
844.00	20600	QPSK	10	H	V	23.16	38.45	Pass
					H	20.42		
844.00	20600	16QAM	10	H	V	26.22		
					H	20.36		
10MHz(RB size 25& RB offset 0)								
844.00	20600	QPSK	10	H	V	24.58	38.45	Pass
					H	20.59		
844.00	20600	16QAM	10	H	V	26.34		
					H	20.41		
10MHz(RB size 50 & RB offset 0)								
844.00	20600	QPSK	10	H	V	24.21	38.45	Pass
					H	20.16		
844.00	20600	16QAM	10	H	V	25.23		
					H	21.34		

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	21.66	33.00	Pass
					H	18.66		
2502.50	20775	16QAM	5	H	V	22.17		
					H	19.15		
5MHz(RB size 12& RB offset 0)								
2502.50	20775	QPSK	5	H	V	22.27	33.00	Pass
					H	19.10		
2502.50	20775	16QAM	5	H	V	21.62		
					H	18.44		
5MHz(RB size 25& RB offset 0)								
2502.50	20775	QPSK	5	H	V	22.07	33.00	Pass
					H	18.77		
2502.50	20775	16QAM	5	H	V	21.94		
					H	18.81		

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	21.25	33.00	Pass
					H	19.30		
2535.00	21100	16QAM	5	H	V	22.17		
					H	20.04		
5MHz(RB size 12& RB offset 0)								
2535.00	21100	QPSK	5	H	V	22.47	33.00	Pass
					H	19.65		
2535.00	21100	16QAM	5	H	V	21.34		
					H	19.78		
5MHz(RB size 25& RB offset 0)								
2535.00	21100	QPSK	5	H	V	22.43	33.00	Pass
					H	19.56		
2535.00	21100	16QAM	5	H	V	21.86		
					H	19.37		

### 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	21.47	33.00	Pass
					H	19.62		
2567.50	21425	16QAM	5	H	V	22.69		
					H	20.47		
5MHz(RB size 12& RB offset 0)								
2567.50	21425	QPSK	5	H	V	22.52	33.00	Pass
					H	19.32		
2567.50	21425	16QAM	5	H	V	21.77		
					H	20.01		
5MHz(RB size 25& RB offset 0)								
2567.50	21425	QPSK	5	H	V	22.47	33.00	Pass
					H	19.25		
2567.50	21425	16QAM	5	H	V	21.23		
					H	19.77		

### 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	21.95	33.00	Pass
					H	19.83		
2510.00	20850	16QAM	20	H	V	22.05		
					H	18.74		
20MHz(RB size 50 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	21.87	33.00	Pass
					H	18.84		
2510.00	20850	16QAM	20	H	V	21.76		
					H	18.33		
20MHz(RB size 100 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	20.85	33.00	Pass
					H	16.86		
2510.00	20850	16QAM	20	H	V	21.40		
					H	16.91		

### 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	22.25	33.00	Pass
					H	19.62		
2535.00	21100	16QAM	20	H	V	22.14		
					H	19.34		
20MHz(RB size 50 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	21.45	33.00	Pass
					H	19.33		
2535.00	21100	16QAM	20	H	V	21.47		
					H	19.33		
20MHz(RB size 100 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	20.23	33.00	Pass
					H	16.58		
2535.00	21100	16QAM	20	H	V	21.47		
					H	16.49		

### 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	22.19	33.00	Pass
					H	20.43		
2560.00	21350	16QAM	20	H	V	21.46		
					H	20.13		
20MHz(RB size 50 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	21.47	33.00	Pass
					H	19.65		
2560.00	21350	16QAM	20	H	V	21.58		
					H	19.58		
20MHz(RB size 100 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	21.41	33.00	Pass
					H	16.57		
2560.00	21350	16QAM	20	H	V	21.36		
					H	16.89		



LTE band 12 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
699.70	23017	QPSK	1.4	H	V	23.56	34.77	Pass
					H	17.57		
699.70	23017	16QAM	1.4	H	V	23.61		
					H	18.77		
1.4MHz(RB size 3& RB offset 0)								
699.70	23017	QPSK	1.4	H	V	23.95	34.77	Pass
					H	18.06		
699.70	23017	16QAM	1.4	H	V	23.64		
					H	18.54		
1.4MHz(RB size 6& RB offset 0)								
699.70	23017	QPSK	1.4	H	V	22.75	34.77	Pass
					H	17.28		
699.70	23017	16QAM	1.4	H	V	22.68		
					H	17.35		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
707.50	23095	QPSK	1.4	H	V	23.52	34.77	Pass
					H	17.44		
707.50	23095	16QAM	1.4	H	V	23.25		
					H	18.52		
1.4MHz(RB size 3& RB offset 0)								
707.50	23095	QPSK	1.4	H	V	23.24	34.77	Pass
					H	18.62		
707.50	23095	16QAM	1.4	H	V	23.44		
					H	18.52		
1.4MHz(RB size 6& RB offset 0)								
707.50	23095	QPSK	1.4	H	V	22.64	34.77	Pass
					H	17.44		
707.50	23095	16QAM	1.4	H	V	22.58		
					H	17.49		

### Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
715.30	23173	QPSK	1.4	H	V	22.57	34.77	Pass
					H	17.24		
715.30	23173	16QAM	1.4	H	V	23.16		
					H	19.78		
1.4MHz(RB size 3& RB offset 0)								
715.30	23173	QPSK	1.4	H	V	23.14	34.77	Pass
					H	19.58		
715.30	23173	16QAM	1.4	H	V	23.46		
					H	18.47		
1.4MHz(RB size 6& RB offset 0)								
715.30	23173	QPSK	1.4	H	V	23.45	34.77	Pass
					H	17.59		
715.30	23173	16QAM	1.4	H	V	22.51		
					H	17.49		

### 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)								
704.00	23060	QPSK	10	H	V	22.26	34.77	Pass
					H	18.57		
704.00	23060	16QAM	10	H	V	23.25		
					H	20.19		
10MHz(RB size 25& RB offset 0)								
704.00	23060	QPSK	10	H	V	23.52	34.77	Pass
					H	19.57		
704.00	23060	16QAM	10	H	V	23.59		
					H	18.21		
10MHz(RB size 50& RB offset 0)								
704.00	23060	QPSK	10	H	V	23.56	34.77	Pass
					H	17.52		
704.00	23060	16QAM	10	H	V	22.67		
					H	17.94		

### 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)								
707.50	23095	QPSK	10	H	V	21.56	34.77	Pass
					H	19.34		
707.50	23095	16QAM	10	H	V	23.16		
					H	20.18		
10MHz(RB size 25& RB offset 0)								
707.50	23095	QPSK	10	H	V	23.49	34.77	Pass
					H	18.75		
707.50	23095	16QAM	10	H	V	23.47		
					H	19.21		
10MHz(RB size 50 & RB offset 0)								
707.50	23095	QPSK	10	H	V	23.16	34.77	Pass
					H	19.75		
707.50	23095	16QAM	10	H	V	22.59		
					H	18.79		

### High 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	23130	QPSK	10	H	V	21.44	34.77	Pass
					H	20.23		
711.00	23130	16QAM	10	H	V	22.78		
					H	20.49		
10MHz(RB size 25& RB offset 0)								
711.00	23130	QPSK	10	H	V	23.49	34.77	Pass
					H	18.78		
711.00	23130	16QAM	10	H	V	23.26		
					H	19.37		
10MHz(RB size 50 & RB offset 0)								
711.00	23130	QPSK	10	H	V	23.26	34.77	Pass
					H	20.14		
711.00	23130	16QAM	10	H	V	22.77		
					H	19.65		

**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	22.95	34.77	Pass
					H	18.26		
706.50	23755	16QAM	5	H	V	22.47		
					H	19.32		
5MHz(RB size 12 & RB offset 0)								
706.50	23755	QPSK	5	H	V	22.45	34.77	Pass
					H	19.30		
706.50	23755	16QAM	5	H	V	21.49		
					H	18.26		
5MHz(RB size 25 & RB offset 0)								
706.50	23755	QPSK	5	H	V	22.78	34.77	Pass
					H	18.62		
706.50	23755	16QAM	5	H	V	21.59		
					H	19.82		

**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	21.56	34.77	Pass
					H	18.32		
710.00	23790	16QAM	5	H	V	22.23		
					H	19.73		
5MHz(RB size 12 & RB offset 0)								
710.00	23790	QPSK	5	H	V	22.13	34.77	Pass
					H	19.25		
710.00	23790	16QAM	5	H	V	21.39		
					H	19.27		
5MHz(RB size 25 & RB offset 0)								
710.00	23790	QPSK	5	H	V	21.43	34.77	Pass
					H	19.25		
710.00	23790	16QAM	5	H	V	21.02		
					H	19.22		

### 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	21.47	34.77	Pass
					H	19.32		
713.50	23825	16QAM	5	H	V	21.26		
					H	20.13		
5MHz(RB size 12 & RB offset 0)								
713.50	23825	QPSK	5	H	V	21.24	34.77	Pass
					H	20.65		
713.50	23825	16QAM	5	H	V	22.79		
					H	20.19		
5MHz(RB size 25 & RB offset 0)								
713.50	23825	QPSK	5	H	V	21.26	34.77	Pass
					H	19.23		
713.50	23825	16QAM	5	H	V	20.47		
					H	18.22		

### 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	23.34	34.77	Pass
					H	19.14		
709.00	23780	16QAM	10	H	V	23.09		
					H	18.98		
10MHz(RB size 25& RB offset 0)								
709.00	23780	QPSK	10	H	V	22.99	34.77	Pass
					H	18.70		
709.00	23780	16QAM	10	H	V	22.98		
					H	18.86		
10MHz(RB size 50& RB offset 0)								
709.00	23780	QPSK	10	H	V	21.82	34.77	Pass
					H	17.58		
709.00	23780	16QAM	10	H	V	19.62		
					H	14.40		

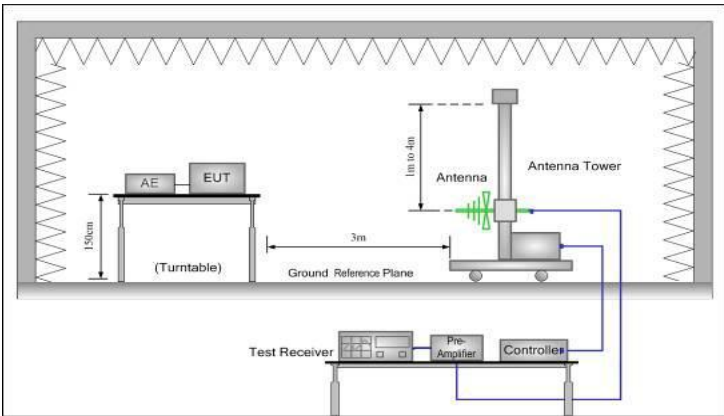
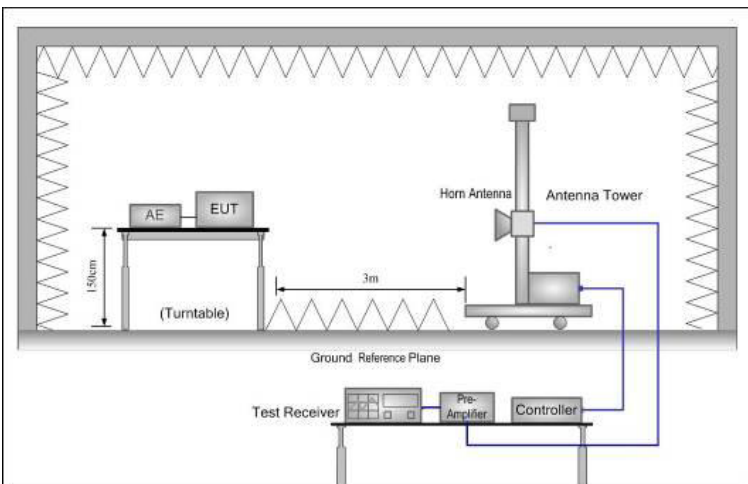
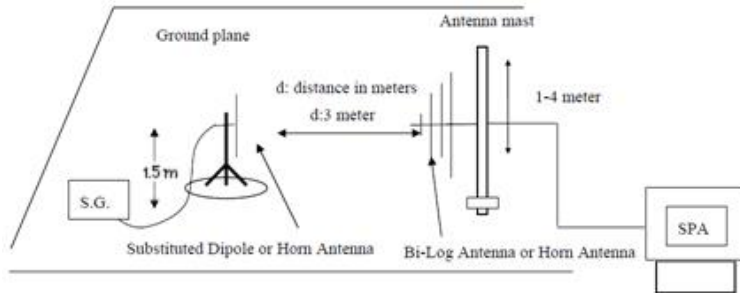
**Middle channel**

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	22.25	34.77	Pass
					H	18.69		
710.00	23790	16QAM	10	H	V	22.47		
					H	19.22		
10MHz(RB size 25& RB offset 0)								
710.00	23790	QPSK	10	H	V	22.26	34.77	Pass
					H	18.43		
710.00	23790	16QAM	10	H	V	21.62		
					H	19.32		
10MHz(RB size 50& RB offset 0)								
710.00	23790	QPSK	10	H	V	21.25	34.77	Pass
					H	17.44		
710.00	23790	16QAM	10	H	V	19.32		
					H	14.78		

**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	22.52	34.77	Pass
					H	18.37		
711.00	23800	16QAM	10	H	V	22.43		
					H	20.16		
10MHz(RB size 25& RB offset 0)								
711.00	23800	QPSK	10	H	V	22.25	34.77	Pass
					H	19.77		
711.00	23800	16QAM	10	H	V	21.41		
					H	19.35		
10MHz(RB size 50& RB offset 0)								
711.00	23800	QPSK	10	H	V	21.29	34.77	Pass
					H	17.36		
711.00	23800	16QAM	10	H	V	19.24		
					H	15.79		

## 6.11 Field strength of spurious radiation measurement

Test Requirement:	FCC Part 24.238 (a), Part 27.53(g), Part 27.53(m), Part 27.53(h), Part 22.917(a)
Test Method:	FCC part 2.1053
Limit:	LTE Band 2, LTE Band 4, LTE Band 5, LTE Band 12 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</li> </ol>

	<p>EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.</p> <p>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 was determined using the substitution method.</p> <p>4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.</p> $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
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)		
Lowest				
3701.40	Vertical	-45.37	-13.00	Pass
5552.10	V	-40.62		
7402.00	V	-39.24		
3701.40	Horizontal	-45.92		
5552.10	H	-40.99		
7402.00	H	-33.77		
Middle				
3760.00	Vertical	-45.26	-13.00	Pass
5640.00	V	-40.21		
7520.00	V	-39.62		
3760.00	Horizontal	-45.27		
5640.00	H	-41.72		
7520.00	H	-34.59		
Highest				
3816.60	Vertical	-46.25	-13.00	Pass
5724.90	V	-41.57		
7633.20	V	-39.26		
3816.60	Horizontal	-45.12		
5724.90	H	-42.21		
7633.20	H	-34.77		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3703.00	Vertical	-45.29	-13.00	Pass
5554.50	V	-42.22		
7406.00	V	-38.62		
3703.00	Horizontal	-49.89		
5554.50	H	-41.28		
7406.00	H	-37.77		
Middle				
3760.00	Vertical	-45.21	-13.00	Pass
5640.00	V	-41.75		
7520.00	V	-38.59		
3760.00	Horizontal	-50.63		
5640.00	H	-41.78		
7520.00	H	-38.32		
Highest				
3817.00	Vertical	-45.22	-13.00	Pass
5725.50	V	-41.78		
7634.00	V	-37.63		
3817.00	Horizontal	-50.21		
5725.50	H	-47.91		
7634.00	H	-36.22		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3705.00	Vertical	-45.26	-13.00	Pass
5557.50	V	-40.23		
7410.00	V	-40.56		
3705.00	Horizontal	-45.32		
5557.50	H	-40.73		
7410.00	H	-34.59		
Middle				
3760.00	Vertical	-45.26	-13.00	Pass
5640.00	V	-41.34		
7520.00	V	-39.68		
3760.00	Horizontal	-45.22		
5640.00	H	-41.72		
7520.00	H	-34.31		
Highest				
3815.00	Vertical	-45.21	-13.00	Pass
5722.50	V	-42.77		
7630.00	V	-39.56		
3815.00	Horizontal	-45.58		
5722.50	H	-42.26		
7630.00	H	-34.69		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3710.00	Vertical	-46.23	-13.00	Pass
5565.00	V	-42.58		
7420.00	V	-38.69		
3710.00	Horizontal	-49.62		
5565.00	H	-41.72		
7420.00	H	-37.66		
Middle				
3760.00	Vertical	-45.25	-13.00	Pass
5640.00	V	-41.43		
7520.00	V	-38.25		
3760.00	Horizontal	-50.26		
5640.00	H	-41.95		
7520.00	H	-37.33		
Highest				
3810.00	Vertical	-45.95	-13.00	Pass
5715.00	V	-42.75		
7620.00	V	-38.62		
3810.00	Horizontal	-50.42		
5715.00	H	-40.78		
7620.00	H	-37.44		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3715.00	Vertical	-46.26	-13.00	Pass
5572.50	V	-40.23		
7430.00	V	-40.59		
3715.00	Horizontal	-45.36		
5572.50	H	-40.25		
7430.00	H	-34.79		
Middle				
3760.00	Vertical	-45.22	-13.00	Pass
5640.00	V	-41.26		
7520.00	V	-39.62		
3760.00	Horizontal	-45.27		
5640.00	H	-42.58		
7520.00	H	-34.22		
Highest				
3805.00	Vertical	-46.23	-13.00	Pass
5707.50	V	-41.85		
7610.00	V	-40.29		
3805.00	Horizontal	-45.80		
5707.50	H	-42.79		
7610.00	H	-33.68		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3720.00	Vertical	-45.65	-13.00	Pass
5580.00	V	-42.12		
7440.00	V	-38.44		
3720.00	Horizontal	-50.46		
5580.00	H	-40.02		
7440.00	H	-38.44		
Middle				
3760.00	Vertical	-46.23	-13.00	Pass
5640.00	V	-42.58		
7520.00	V	-38.76		
3760.00	Horizontal	-50.12		
5640.00	H	-41.29		
7520.00	H	-37.86		
Highest				
3800.00	Vertical	-46.23	-13.00	Pass
5700.00	V	-41.72		
7600.00	V	-38.69		
3800.00	Horizontal	-50.22		
5700.00	H	-40.26		
7600.00	H	-37.68		

LTE Band 4 Part:

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

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3421.40	Vertical	-49.66	-13.00	Pass
5132.10	V	-45.05		
6842.80	V	-39.87		
3421.40	Horizontal	-50.26		
5132.10	H	-43.62		
6842.80	H	-40.28		
Middle				
3465.00	Vertical	-49.25	-13.00	Pass
5197.50	V	-46.37		
6930.00	V	-40.15		
3465.00	Horizontal	-49.62		
5197.50	H	-42.21		
6930.00	H	-41.78		
Highest				
3508.60	Vertical	-49.56	-13.00	Pass
5262.90	V	-44.85		
7017.20	V	-40.16		
3508.60	Horizontal	-49.39		
5262.90	H	-42.25		
7017.20	H	-41.78		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3423.00	Vertical	-46.26	-13.00	Pass
5134.50	V	-45.22		
6846.00	V	-38.69		
3423.00	Horizontal	-51.44		
5134.50	H	-45.70		
6846.00	H	-39.26		
Middle				
3465.00	Vertical	-45.47	-13.00	Pass
5197.50	V	-46.32		
6930.00	V	-39.69		
3465.00	Horizontal	-52.26		
5197.50	H	-45.77		
6930.00	H	-41.20		
Highest				
3507.00	Vertical	-59.47	-13.00	Pass
5260.50	V	-47.21		
7014.00	V	-40.26		
3507.00	Horizontal	-48.62		
5260.50	H	-45.21		
7014.00	H	-40.70		



5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-48.26	-13.00	Pass
5137.50	V	-46.32		
6850.00	V	-40.58		
3425.00	Horizontal	-50.12		
5137.50	H	-42.73		
6850.00	H	-40.77		
Middle				
3465.00	Vertical	-49.23	-13.00	Pass
5197.50	V	-46.22		
6930.00	V	-40.75		
3465.00	Horizontal	-50.98		
5197.50	H	-42.75		
6930.00	H	-42.27		
Highest				
3505.00	Vertical	-50.23	-13.00	Pass
5257.50	V	-45.22		
7010.00	V	-41.78		
3505.00	Horizontal	-48.52		
5257.50	H	-41.77		
7010.00	H	-42.69		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-46.29	-13.00	Pass
5145.00	V	-45.23		
6860.00	V	-38.66		
3430.00	Horizontal	-51.72		
5145.00	H	-45.26		
6860.00	H	-39.66		
Middle				
3465.00	Vertical	-46.21	-13.00	Pass
5197.50	V	-45.72		
6930.00	V	-39.52		
3465.00	Horizontal	-52.21		
5197.50	H	-45.91		
6930.00	H	-41.72		
Highest				
3500.00	Vertical	-59.67	-13.00	Pass
5250.00	V	-47.58		
7000.00	V	-40.26		
3500.00	Horizontal	-49.28		
5250.00	H	-45.14		
7000.00	H	-40.27		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-47.26	-13.00	Pass
5152.50	V	-46.32		
6870.00	V	-41.27		
3435.00	Horizontal	-50.23		
5152.50	H	-42.52		
6870.00	H	-41.77		
Middle				
3465.00	Vertical	-48.23	-13.00	Pass
5197.50	V	-46.25		
6930.00	V	-41.22		
3465.00	Horizontal	-50.73		
5197.50	H	-42.55		
6930.00	H	-41.73		
Highest				
3495.00	Vertical	-49.69	-13.00	Pass
5242.50	V	-46.25		
6990.00	V	-42.21		
3495.00	Horizontal	-47.41		
5242.50	H	-42.32		
6990.00	H	-41.78		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3440.00	Vertical	-47.88	-13.00	Pass
5160.00	V	-44.24		
6880.00	V	-38.21		
3440.00	Horizontal	-51.60		
5160.00	H	-45.33		
6880.00	H	-39.78		
Middle				
3465.00	Vertical	-46.26	-13.00	Pass
5197.50	V	-45.27		
6930.00	V	-39.58		
3465.00	Horizontal	-52.23		
5197.50	H	-46.21		
6930.00	H	-40.52		
Highest				
3490.00	Vertical	-58.64	-13.00	Pass
5235.00	V	-46.25		
6980.00	V	-39.62		
3490.00	Horizontal	-50.21		
5235.00	H	-45.72		
6980.00	H	-40.77		

LTE Band 5 Part:

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

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1649.40	Vertical	-53.38	-13	Pass
2474.10	V	-54.61		
3298.80	V	-49.51		
1649.40	Horizontal	-55.88		
2474.10	H	-52.36		
3298.80	H	-47.76		
Middle				
1673.00	Vertical	-52.23	-13	Pass
2509.50	V	-51.47		
3346.00	V	-52.22		
1673.00	Horizontal	-51.40		
2509.50	H	-54.13		
3346.00	H	-46.73		
Highest				
1696.60	Vertical	-52.24	-13	Pass
2544.90	V	-51.67		
3393.20	V	-52.24		
1696.60	Horizontal	-51.34		
2544.90	H	-52.78		
3393.20	H	-47.61		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1651.00	Vertical	-54.26	-13	Pass
2476.50	V	-52.21		
3302.00	V	-48.62		
1651.00	Horizontal	-56.32		
2476.50	H	-52.21		
3302.00	H	-47.21		
Middle				
1673.00	Vertical	-52.00	-13	Pass
2509.50	V	-52.69		
3346.00	V	-51.24		
1673.00	Horizontal	-53.26		
2509.50	H	-54.21		
3346.00	H	-46.78		
Highest				
1695.00	Vertical	-52.29	-13	Pass
2542.50	V	-52.15		
3390.00	V	-52.69		
1695.00	Horizontal	-52.54		
2542.50	H	-51.73		
3390.00	H	-49.69		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1653.00	Vertical	-52.26	-13	Pass
2479.50	V	-53.24		
3306.00	V	-50.79		
1653.00	Horizontal	-54.62		
2479.50	H	-52.16		
3306.00	H	-46.59		
Middle				
1673.00	Vertical	-52.23	-13	Pass
2509.50	V	-51.26		
3346.00	V	-52.40		
1673.00	Horizontal	-53.61		
2509.50	H	-54.20		
3346.00	H	-45.78		
Highest				
1693.00	Vertical	-51.24	-13	Pass
2539.50	V	-52.69		
3386.00	V	-51.45		
1693.00	Horizontal	-51.27		
2539.50	H	-52.26		
3386.00	H	-46.27		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1658.00	Vertical	-55.03	-13	Pass
2487.00	V	-51.08		
3316.00	V	-49.20		
1658.00	Horizontal	-56.52		
2487.00	H	-53.09		
3316.00	H	-48.64		
Middle				
1673.00	Vertical	-54.23	-13	Pass
2509.50	V	-52.26		
3346.00	V	-50.34		
1673.00	Horizontal	-54.76		
2509.50	H	-53.21		
3346.00	H	-47.60		
Highest				
1688.00	Vertical	-53.26	-13	Pass
2532.00	V	-52.14		
3376.00	V	-51.32		
1688.00	Horizontal	-53.67		
2532.00	H	-52.24		
3376.00	H	-48.65		



LTE Band 7 Part:

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

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5005.00	Vertical	-45.37	-25.00	Pass
7507.50	V	-38.64		
10010.00	V	-41.58		
5005.00	Horizontal	-45.21		
7507.50	H	-39.00		
10010.00	H	-39.64		
Middle				
5070.00	Vertical	-46.26	-25.00	Pass
7605.00	V	-39.25		
10140.00	V	-40.26		
5070.00	Horizontal	-44.76		
7605.00	H	-38.26		
10140.00	H	-38.62		
Highest				
5135.00	Vertical	-46.21	-25.00	Pass
7702.50	V	-37.64		
10270.00	V	-42.58		
5135.00	Horizontal	-45.95		
7702.50	H	-38.65		
10270.00	H	-38.21		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5010.00	Vertical	-45.29	-25.00	Pass
7515.00	V	-40.19		
10020.00	V	-41.78		
5010.00	Horizontal	-45.26		
7515.00	H	-40.23		
10020.00	H	-41.77		
Middle				
5070.00	Vertical	-46.26	-25.00	Pass
7605.00	V	-40.25		
10140.00	V	-41.26		
5070.00	Horizontal	-46.26		
7605.00	H	-40.22		
10140.00	H	-43.26		
Highest				
5130.00	Vertical	-43.62	-25.00	Pass
7695.00	V	-42.78		
10260.00	V	-39.65		
5130.00	Horizontal	-42.58		
7695.00	H	-40.25		
10260.00	H	-41.79		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5015.00	Vertical	-46.32	-25.00	Pass
7522.50	V	-37.64		
10030.00	V	-42.52		
5015.00	Horizontal	-45.20		
7522.50	H	-38.65		
10030.00	H	-37.54		
Middle				
5070.00	Vertical	-45.21	-25.00	Pass
7605.00	V	-38.65		
10140.00	V	-41.24		
5070.00	Horizontal	-45.21		
7605.00	H	-37.69		
10140.00	H	-37.42		
Highest				
5125.00	Vertical	-45.21	-25.00	Pass
7687.50	V	-37.65		
10250.00	V	-42.58		
5125.00	Horizontal	-45.90		
7687.50	H	-38.25		
10250.00	H	-37.61		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5020.00	Vertical	-44.26	-25.00	Pass
7530.00	V	-39.85		
10040.00	V	-42.13		
5020.00	Horizontal	-46.30		
7530.00	H	-39.66		
10040.00	H	-41.68		
Middle				
5070.00	Vertical	-45.26	-25.00	Pass
7605.00	V	-40.21		
10140.00	V	-41.34		
5070.00	Horizontal	-45.26		
7605.00	H	-39.58		
10140.00	H	-42.17		
Highest				
5120.00	Vertical	-44.62	-25.00	Pass
7680.00	V	-41.25		
10240.00	V	-39.62		
5120.00	Horizontal	-43.25		
7680.00	H	-40.21		
10240.00	H	-41.78		

LTE Band 12 Part:

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

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1399.40	Vertical	-53.31	-13	Pass
2099.10	V	-55.75		
2798.80	V	-52.12		
1399.40	Horizontal	-52.09		
2099.10	H	-54.66		
2798.80	H	-50.99		
Middle				
1415.00	Vertical	-52.69	-13	Pass
2122.50	V	-54.20		
2830.00	V	-51.37		
1415.00	Horizontal	-52.49		
2122.50	H	-53.62		
2830.00	H	-51.90		
Highest				
1430.60	Vertical	-52.24	-13	Pass
2145.90	V	-54.97		
2861.20	V	-52.63		
1430.60	Horizontal	-51.34		
2145.90	H	-53.98		
2861.20	H	-49.37		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1401.00	Vertical	-49.62	-13	Pass
2101.50	V	-55.32		
2802.00	V	-52.23		
1401.00	Horizontal	-52.49		
2101.50	H	-53.36		
2802.00	H	-51.77		
Middle				
1415.00	Vertical	-50.23	-13	Pass
2122.50	V	-54.73		
2830.00	V	-42.28		
1415.00	Horizontal	-51.20		
2122.50	H	-53.26		
2830.00	H	-52.17		
Highest				
1429.00	Vertical	-49.62	-13	Pass
2143.50	V	-54.31		
2858.00	V	-52.02		
1429.00	Horizontal	-53.26		
2143.50	H	-52.27		
2858.00	H	-52.29		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1403.00	Vertical	-52.26	-13	Pass
2104.50	V	-54.37		
2806.00	V	-51.69		
1403.00	Horizontal	-52.22		
2104.50	H	-53.67		
2806.00	H	-51.40		
Middle				
1415.00	Vertical	-51.26	-13	Pass
2122.50	V	-53.95		
2830.00	V	-52.27		
1415.00	Horizontal	-52.44		
2122.50	H	-53.26		
2830.00	H	-52.22		
Highest				
1427.00	Vertical	-51.34	-13	Pass
2410.50	V	-53.69		
2854.00	V	52.25		
1427.00	Horizontal	-51.44		
2410.50	H	-53.98		
2854.00	H	-46.26		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1408.00	Vertical	-50.21	-13	Pass
2112.00	V	-56.41		
2816.00	V	-52.72		
1408.00	Horizontal	-53.12		
2112.00	H	-54.07		
2816.00	H	-51.62		
Middle				
1415.00	Vertical	-49.62	-13	Pass
2122.50	V	-55.32		
2830.00	V	-41.27		
1415.00	Horizontal	-52.26		
2122.50	H	-53.94		
2830.00	H	-52.20		
Highest				
1422.00	Vertical	-50.23	-13	Pass
2133.00	V	-55.49		
2844.00	V	-51.24		
1422.00	Horizontal	-53.21		
2133.00	H	-53.62		
2844.00	H	-52.47		



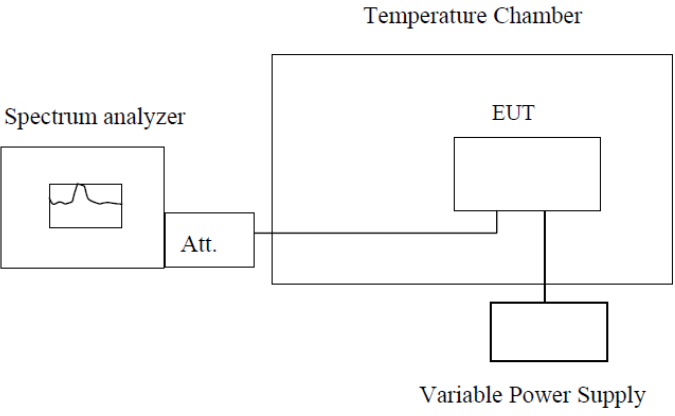
LTE Band 17 Part:

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

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1413.00	Vertical	-53.27	-13.00	Pass
2119.50	V	-51.96		
2826.00	V	-53.09		
1413.00	Horizontal	-53.05		
2119.50	H	-53.32		
2826.00	H	-52.32		
Middle				
1420.00	Vertical	-53.26	-13.00	Pass
2130.00	V	-49.62		
2840.00	V	-48.21		
1420.00	Horizontal	-52.23		
2130.00	H	-53.47		
2840.00	H	-51.43		
Highest				
1427.00	Vertical	-52.27	-13.00	Pass
2140.50	V	-54.67		
2854.00	V	-49.62		
1427.00	Horizontal	-65.21		
2140.50	H	-53.64		
2854.00	H	-49.78		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1418.00	Vertical	-53.76	-13.00	Pass
2127.00	V	-52.25		
2836.00	V	-50.74		
1418.00	Horizontal	-54.47		
2127.00	H	-55.17		
2836.00	H	-51.53		
Middle				
1420.00	Vertical	-52.26	-13.00	Pass
2130.00	V	-51.32		
2840.00	V	-49.62		
1420.00	Horizontal	-53.31		
2130.00	H	-54.21		
2840.00	H	-50.27		
Highest				
1422.00	Vertical	-52.26	-13.00	Pass
2133.00	V	-51.74		
2844.00	V	-49.56		
1422.00	Horizontal	-63.32		
2133.00	H	-54.21		
2844.00	H	-50.00		

## 6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part 2.1055(a)(1)(b)
Test Method:	FCC Part 2.1055(a)(1)(b)
Limit:	±2.5ppm
Test setup:	 <p style="text-align: center;"><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		
3.8	-30	195	0.103723	±2.5	Pass
	-20	120	0.063830		
	-10	162	0.086170		
	0	141	0.075000		
	10	119	0.063298		
	20	136	0.072340		
	30	98	0.052128		
	40	181	0.096277		
	50	168	0.089362		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	154	0.081915	±2.5	Pass
	-20	125	0.066489		
	-10	138	0.073404		
	0	122	0.064894		
	10	146	0.077660		
	20	109	0.057979		
	30	167	0.088830		
	40	110	0.058511		
	50	176	0.093617		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	157	0.083511	±2.5	Pass
	-20	124	0.065957		
	-10	178	0.094681		
	0	145	0.077128		
	10	161	0.085638		
	20	156	0.082979		
	30	151	0.080319		
	40	105	0.055851		
	50	133	0.070745		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	184	0.097872	±2.5	Pass
	-20	126	0.067021		
	-10	168	0.089362		
	0	107	0.056915		
	10	174	0.092553		
	20	149	0.079255		
	30	103	0.054787		
	40	121	0.064362		
	50	151	0.080319		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	157	0.083511	±2.5	Pass
	-20	167	0.088830		
	-10	173	0.092021		
	0	146	0.077660		
	10	122	0.064894		
	20	135	0.071809		
	30	140	0.074468		
	40	106	0.056383		
	50	120	0.063830		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	198	0.105319	±2.5	Pass
	-20	126	0.067021		
	-10	135	0.071809		
	0	169	0.089894		
	10	184	0.097872		
	20	178	0.094681		
	30	146	0.077660		
	40	126	0.067021		
	50	110	0.058511		

**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		
3.8	-30	154	0.081915	±2.5	Pass
	-20	184	0.097872		
	-10	147	0.078191		
	0	174	0.092553		
	10	144	0.076596		
	20	136	0.072340		
	30	139	0.073936		
	40	111	0.059043		
	50	105	0.055851		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	164	0.0872340	±2.5	Pass
	-20	158	0.0840426		
	-10	153	0.0813830		
	0	121	0.0643617		
	10	131	0.0696809		
	20	124	0.0659574		
	30	136	0.0723404		
	40	142	0.0755319		
	50	138	0.0734043		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	181	0.096277	±2.5	Pass
	-20	127	0.067553		
	-10	136	0.072340		
	0	137	0.072872		
	10	130	0.069149		
	20	148	0.078723		
	30	152	0.080851		
	40	170	0.090426		
	50	164	0.087234		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	183	0.097340	±2.5	Pass
	-20	123	0.065426		
	-10	146	0.077660		
	0	157	0.083511		
	10	162	0.086170		
	20	142	0.075532		
	30	110	0.058511		
	40	119	0.063298		
	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		
3.8	-30	162	0.086170	±2.5	Pass
	-20	156	0.082979		
	-10	108	0.057447		
	0	106	0.056383		
	10	119	0.063298		
	20	121	0.064362		
	30	129	0.068617		
	40	132	0.070213		
	50	103	0.054787		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	158	0.084043	±2.5	Pass
	-20	164	0.087234		
	-10	126	0.067021		
	0	136	0.072340		
	10	128	0.068085		
	20	139	0.073936		
	30	169	0.089894		
	40	174	0.092553		
	50	107	0.056915		

### 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		
3.8	-30	195	0.112554	±2.5	Pass
	-20	125	0.072150		
	-10	133	0.076768		
	0	168	0.096970		
	10	183	0.105628		
	20	173	0.099856		
	30	184	0.106205		
	40	177	0.102165		
	50	146	0.084271		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	192	0.110823	±2.5	Pass
	-20	127	0.073304		
	-10	136	0.078499		
	0	170	0.098124		
	10	175	0.101010		
	20	145	0.083694		
	30	109	0.062915		
	40	112	0.064646		
	50	159	0.091775		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	167	0.096392	±2.5	Pass
	-20	135	0.077922		
	-10	139	0.080231		
	0	171	0.098701		
	10	147	0.084848		
	20	151	0.087157		
	30	104	0.060029		
	40	111	0.064069		
	50	131	0.075613		



Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	167	0.096392	±2.5	Pass
	-20	124	0.071573		
	-10	134	0.077345		
	0	129	0.074459		
	10	162	0.093506		
	20	145	0.083694		
	30	141	0.081385		
	40	172	0.099278		
	50	171	0.098701		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	158	0.091198	±2.5	Pass
	-20	126	0.072727		
	-10	153	0.088312		
	0	129	0.074459		
	10	147	0.084848		
	20	151	0.087157		
	30	136	0.078499		
	40	133	0.076768		
	50	117	0.067532		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	200	0.115440	±2.5	Pass
	-20	175	0.101010		
	-10	179	0.103319		
	0	165	0.095238		
	10	137	0.079076		
	20	152	0.087734		
	30	142	0.081962		
	40	144	0.083117		
	50	112	0.064646		

**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		
3.8	-30	175	0.101010	±2.5	Pass
	-20	155	0.089466		
	-10	123	0.070996		
	0	154	0.088889		
	10	116	0.066955		
	20	128	0.073882		
	30	133	0.076768		
	40	119	0.068687		
	50	127	0.073304		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	177	0.102165	±2.5	Pass
	-20	148	0.085426		
	-10	152	0.087734		
	0	142	0.081962		
	10	133	0.076768		
	20	105	0.060606		
	30	116	0.066955		
	40	180	0.103896		
	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		
3.8	-30	178	0.102742	±2.5	Pass
	-20	152	0.087734		
	-10	136	0.078499		
	0	143	0.082540		
	10	125	0.072150		
	20	126	0.072727		
	30	108	0.062338		
	40	126	0.072727		
	50	146	0.084271		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	179	0.103319	±2.5	Pass
	-20	136	0.078499		
	-10	125	0.072150		
	0	142	0.081962		
	10	122	0.070418		
	20	135	0.077922		
	30	115	0.066378		
	40	126	0.072727		
	50	136	0.078499		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	178	0.102742	±2.5	Pass
	-20	155	0.089466		
	-10	149	0.086003		
	0	136	0.078499		
	10	132	0.076190		
	20	108	0.062338		
	30	159	0.091775		
	40	146	0.084271		
	50	122	0.070418		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	178	0.102742	±2.5	Pass
	-20	190	0.109668		
	-10	166	0.095815		
	0	135	0.077922		
	10	146	0.084271		
	20	125	0.072150		
	30	169	0.097547		
	40	185	0.106782		
	50	126	0.072727		

**LTE Band 5(QPSK):**

Reference Frequency: LTE Band 5(1.4MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	147	0.175732	±2.5	Pass
	-20	125	0.149432		
	-10	136	0.162582		
	0	122	0.145846		
	10	125	0.149432		
	20	142	0.169755		
	30	136	0.162582		
	50	105	0.125523		
Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	179	0.213987	±2.5	Pass
	-20	188	0.224746		
	-10	185	0.221160		
	0	163	0.194860		
	10	127	0.151823		
	20	152	0.181710		
	30	146	0.174537		
	50	133	0.158996		
Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	128	0.153019	±2.5	Pass
	-20	122	0.145846		
	-10	146	0.174537		
	0	123	0.147041		
	10	120	0.143455		
	20	127	0.151823		
	30	139	0.166169		
	50	156	0.186491		
Reference Frequency: LTE Band 5(10MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	133	0.158996	±2.5	Pass
	-20	146	0.174537		
	-10	128	0.153019		
	0	159	0.190078		
	10	170	0.203228		
	20	136	0.162582		
	30	115	0.137478		
	50	128	0.153019		
50	126	0.150628			

**LTE Band 5(16QAM):**

Reference Frequency: LTE Band 5(1.4MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	174	0.208010	±2.5	Pass
	-20	136	0.162582		
	-10	125	0.149432		
	0	108	0.129109		
	10	149	0.178123		
	20	152	0.181710		
	30	122	0.145846		
	40	160	0.191273		
	50	125	0.149432		
Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	160	0.191273	±2.5	Pass
	-20	147	0.175732		
	-10	136	0.162582		
	0	125	0.149432		
	10	105	0.125523		
	20	123	0.147041		
	30	104	0.124328		
	40	116	0.138673		
	50	128	0.153019		
Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	166	0.198446	2.5	Pass
	-20	125	0.149432		
	-10	136	0.162582		
	0	122	0.145846		
	10	145	0.173341		
	20	171	0.204423		
	30	122	0.145846		
	40	146	0.174537		
	50	152	0.181710		
Reference Frequency: LTE Band 5(10MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	176	0.210400	2.5	Pass
	-20	123	0.147041		
	-10	105	0.125523		
	0	188	0.224746		
	10	174	0.208010		
	20	136	0.162582		
	30	147	0.175732		
	40	160	0.191273		
	50	169	0.202032		

**LTE Band 7(QPSK):**

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	172	0.205619	±2.5	Pass
	-20	106	0.126718		
	-10	190	0.227137		
	0	158	0.188882		
	10	168	0.200837		
	20	174	0.208010		
	30	156	0.186491		
	40	126	0.150628		
50	136	0.162582			
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	156	0.186491	±2.5	Pass
	-20	162	0.193664		
	-10	120	0.143455		
	0	125	0.149432		
	10	146	0.174537		
	20	125	0.149432		
	30	175	0.209205		
	40	126	0.150628		
50	155	0.185296			
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	136	0.162582	±2.5	Pass
	-20	125	0.149432		
	-10	128	0.153019		
	0	174	0.208010		
	10	190	0.227137		
	20	125	0.149432		
	30	146	0.174537		
	40	133	0.158996		
50	146	0.174537			
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	185	0.221160	±2.5	Pass
	-20	136	0.162582		
	-10	125	0.149432		
	0	162	0.193664		
	10	145	0.173341		
	20	122	0.145846		
	30	130	0.155409		
	40	105	0.125523		
50	126	0.150628			

**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		
3.8	-30	129	0.050888	±2.5	Pass
	-20	178	0.070217		
	-10	163	0.064300		
	0	145	0.057199		
	10	125	0.049310		
	20	136	0.053649		
	30	102	0.040237		
	40	125	0.049310		
50	136	0.053649			
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	170	0.067061	±2.5	Pass
	-20	135	0.053254		
	-10	160	0.063116		
	0	141	0.055621		
	10	125	0.049310		
	20	122	0.048126		
	30	163	0.064300		
	40	125	0.049310		
50	125	0.049310			
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	196	0.061144	2.5	Pass
	-20	155	0.073767		
	-10	187	0.059961		
	0	152	0.053649		
	10	136	0.059961		
	20	152	0.056016		
	30	142	0.040631		
	40	103	0.049704		
50	126	0.061144			
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	142	0.056016	2.5	Pass
	-20	142	0.056016		
	-10	130	0.051282		
	0	125	0.049310		
	10	106	0.041815		
	20	155	0.061144		
	30	172	0.067850		
	40	126	0.049704		
50	146	0.057594			

**LTE Band 12(QPSK):**

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	135	0.190813	±2.5	Pass
	-20	125	0.176678		
	-10	141	0.199293		
	0	122	0.172438		
	10	105	0.148410		
	20	162	0.228975		
	30	122	0.172438		
	40	145	0.204947		
	50	136	0.192226		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	142	0.200707	±2.5	Pass
	-20	125	0.176678		
	-10	136	0.192226		
	0	155	0.219081		
	10	146	0.206360		
	20	138	0.195053		
	30	174	0.245936		
	40	106	0.149823		
	50	108	0.152650		
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	152	0.214841	±2.5	Pass
	-20	136	0.192226		
	-10	142	0.200707		
	0	162	0.228975		
	10	152	0.214841		
	20	142	0.200707		
	30	136	0.192226		
	40	102	0.144170		
	50	152	0.214841		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	163	0.230389	±2.5	Pass
	-20	125	0.176678		
	-10	185	0.261484		
	0	174	0.245936		
	10	190	0.268551		
	20	155	0.219081		
	30	142	0.200707		
	40	136	0.192226		
	50	122	0.172438		



**LTE Band 12(16QAM):**

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	174	0.245936	±2.5	Pass
	-20	155	0.219081		
	-10	126	0.178092		
	0	136	0.192226		
	10	138	0.195053		
	20	129	0.182332		
	30	105	0.148410		
	40	127	0.179505		
	50	146	0.206360		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	188	0.265724	±2.5	Pass
	-20	152	0.214841		
	-10	146	0.206360		
	0	136	0.192226		
	10	152	0.214841		
	20	105	0.148410		
	30	126	0.178092		
	40	133	0.187986		
	50	127	0.179505		
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	103	0.145583	2.5	Pass
	-20	122	0.172438		
	-10	163	0.230389		
	0	145	0.204947		
	10	185	0.261484		
	20	166	0.234629		
	30	125	0.176678		
	40	128	0.180919		
	50	156	0.220495		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	152	0.214841	2.5	Pass
	-20	163	0.230389		
	-10	123	0.173852		
	0	155	0.219081		
	10	142	0.200707		
	20	120	0.169611		
	30	176	0.248763		
	40	105	0.148410		
	50	104	0.146996		

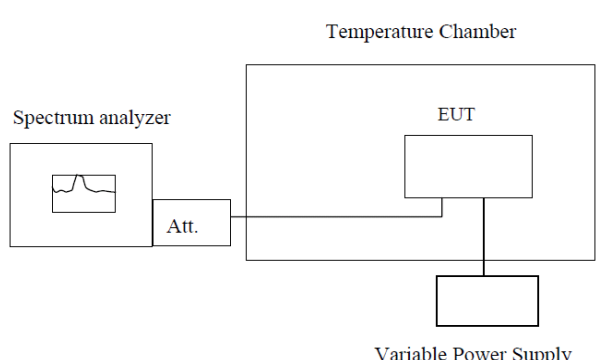
**LTE Band 17(QPSK):**

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	174	0.245070	±2.5	Pass
	-20	125	0.176056		
	-10	133	0.187324		
	0	186	0.261972		
	10	125	0.176056		
	20	125	0.176056		
	30	181	0.254930		
	40	109	0.153521		
	50	122	0.171831		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	174	0.245070	±2.5	Pass
	-20	152	0.214085		
	-10	133	0.187324		
	0	162	0.228169		
	10	152	0.214085		
	20	146	0.205634		
	30	125	0.176056		
	40	163	0.229577		
	50	136	0.191549		

**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		
3.8	-30	169	0.238028	±2.5	Pass
	-20	158	0.222535		
	-10	163	0.229577		
	0	142	0.200000		
	10	125	0.176056		
	20	136	0.191549		
	30	148	0.208451		
	40	175	0.246479		
	50	169	0.238028		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-30	157	0.221127	±2.5	Pass
	-20	146	0.205634		
	-10	152	0.214085		
	0	133	0.187324		
	10	163	0.229577		
	20	152	0.214085		
	30	142	0.200000		
	40	125	0.176056		
	50	126	0.177465		

## 6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part 2.1055(d)(1)(2)
Test Method:	FCC Part 2.1055(d)(1)(2)
Limit:	±2.5ppm
Test setup:	 <p style="text-align: center;">Temperature Chamber</p> <p style="text-align: center;">Spectrum analyzer      Att.      EUT</p> <p style="text-align: center;">Variable Power Supply</p> <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	4.35	74	0.039362	±2.5	Pass
	3.80	88	0.046809		
	3.60	96	0.051064		
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	4.35	87	0.046277	±2.5	Pass
	3.80	63	0.033511		
	3.60	71	0.037766		
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	4.35	95	0.050532	±2.5	Pass
	3.80	95	0.050532		
	3.60	100	0.053191		
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	4.35	78	0.041489	±2.5	Pass
	3.80	94	0.050000		
	3.60	36	0.019149		
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	4.35	87	0.046277	±2.5	Pass
	3.80	95	0.050532		
	3.60	80	0.042553		
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	4.35	74	0.039362	±2.5	Pass
	3.80	92	0.048936		
	3.60	68	0.036170		

**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	4.35	77	0.040957	±2.5	Pass
	3.80	89	0.047340		
	3.60	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	4.35	78	0.041489	±2.5	Pass
	3.80	59	0.031383		
	3.60	92	0.048936		
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	4.35	67	0.035638	±2.5	Pass
	3.80	85	0.045213		
	3.60	74	0.039362		
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	4.35	88	0.046809	±2.5	Pass
	3.80	56	0.029787		
	3.60	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	4.35	78	0.041489	±2.5	Pass
	3.80	65	0.034574		
	3.60	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	4.35	74	0.039362	±2.5	Pass
	3.80	92	0.048936		
	3.60	55	0.029255		

### 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	4.35	75	0.043290	±2.5	Pass
	3.80	66	0.038095		
	3.60	85	0.049062		
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	4.35	79	0.045599	±2.5	Pass
	3.80	99	0.057143		
	3.60	89	0.051371		
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	4.35	71	0.040981	±2.5	Pass
	3.80	89	0.051371		
	3.60	99	0.057143		
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	4.35	68	0.039250	±2.5	Pass
	3.80	78	0.045022		
	3.60	90	0.051948		
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	4.35	85	0.049062	±2.5	Pass
	3.80	74	0.042713		
	3.60	69	0.039827		
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	4.35	75	0.043290	±2.5	Pass
	3.80	66	0.038095		
	3.60	82	0.047330		

**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	4.35	75	0.043290	±2.5	Pass
	3.80	68	0.039250		
	3.60	92	0.053102		
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	4.35	89	0.051371	±2.5	Pass
	3.80	75	0.043290		
	3.60	99	0.057143		
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	4.35	89	0.051371	±2.5	Pass
	3.80	74	0.042713		
	3.60	58	0.033478		
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	4.35	76	0.043867	±2.5	Pass
	3.80	90	0.051948		
	3.60	78	0.045022		
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	4.35	75	0.043290	±2.5	Pass
	3.80	63	0.036364		
	3.60	88	0.050794		
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	4.35	75	0.043290	±2.5	Pass
	3.80	55	0.031746		
	3.60	90	0.051948		

**LTE Band 5(QPSK):**

Reference Frequency: LTE Band 5(1.4MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	78	0.093246	±2.5	Pass
	3.80	66	0.078900		
	3.60	82	0.098027		
Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	79	0.094441	±2.5	Pass
	3.80	75	0.089659		
	3.60	95	0.113568		
Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	87	0.1040048	±2.5	Pass
	3.80	95	0.1135684		
	3.60	46	0.0549910		
Reference Frequency: LTE Band5(10MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	88	0.105200	±2.5	Pass
	3.80	76	0.090855		
	3.60	85	0.101614		



**LTE Band 5(16QAM):**

Reference Frequency: LTE Band 5(1.4MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	69	0.082487	±2.5	Pass
	3.80	77	0.092050		
	3.60	85	0.101614		
Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	63	0.075314	±2.5	Pass
	3.80	71	0.084877		
	3.60	89	0.106396		
Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	74	0.088464	±2.5	Pass
	3.80	85	0.101614		
	3.60	66	0.078900		
Reference Frequency: LTE Band 5(10MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	68	0.081291	±2.5	Pass
	3.80	75	0.089659		
	3.60	85	0.101614		

**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	4.35	75	0.029586	±2.5	Pass
	3.80	85	0.033531		
	3.60	69	0.027219		
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	4.35	85	0.033531	±2.5	Pass
	3.80	79	0.031164		
	3.60	86	0.033925		
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	4.35	74	0.029191	±2.5	Pass
	3.80	85	0.033531		
	3.60	63	0.024852		
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	4.35	85	0.033531	±2.5	Pass
	3.80	79	0.031164		
	3.60	88	0.034714		

**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	4.35	89	0.035108	±2.5	Pass
	3.80	87	0.034320		
	3.60	66	0.026036		
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	4.35	85	0.033531	±2.5	Pass
	3.80	75	0.029586		
	3.60	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	4.35	67	0.026430	±2.5	Pass
	3.80	82	0.032347		
	3.60	86	0.033925		
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	4.35	75	0.029586	±2.5	Pass
	3.80	88	0.034714		
	3.60	62	0.024458		

**LTE Band 12(QPSK):**

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	77	0.108834	±2.5	Pass
	3.80	85	0.120141		
	3.60	90	0.127208		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	77	0.108834	±2.5	Pass
	3.80	69	0.097527		
	3.60	88	0.124382		
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	78	0.110247	±2.5	Pass
	3.80	64	0.090459		
	3.60	90	0.127208		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	84	0.118728	±2.5	Pass
	3.80	67	0.094700		
	3.60	47	0.066431		

**LTE Band 12(16QAM):**

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	78	0.110247	±2.5	Pass
	3.80	72	0.101767		
	3.60	88	0.124382		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	67	0.094700	±2.5	Pass
	3.80	79	0.111661		
	3.60	48	0.067845		
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	90	0.127208	±2.5	Pass
	3.80	85	0.120141		
	3.60	74	0.104594		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	66	0.093286	±2.5	Pass
	3.80	80	0.113074		
	3.60	90	0.127208		

**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	4.35	87	0.122535	±2.5	Pass
	3.80	56	0.078873		
	3.60	90	0.126761		
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	4.35	75	0.105634	±2.5	Pass
	3.80	66	0.092958		
	3.60	89	0.125352		

**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	4.35	70	0.098592	±2.5	Pass
	3.80	58	0.081690		
	3.60	63	0.088732		
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	4.35	90	0.126761	±2.5	Pass
	3.80	78	0.109859		
	3.60	75	0.105634		