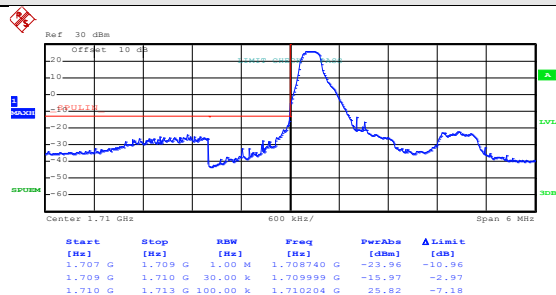


Band edge emission:

LTE band 4 part: 1.4MHz:

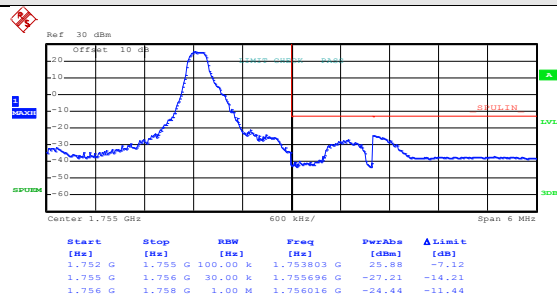
Test Mode:

LTE band 4(QPSK RB Size 1 &RB Offset0)



Date: 2.JUL.2016 15:28:50

Lowest channel

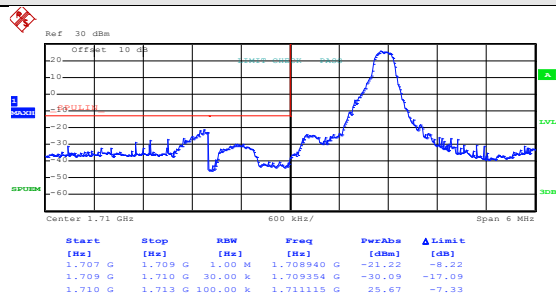


Date: 2.JUL.2016 15:32:53

Highest channel

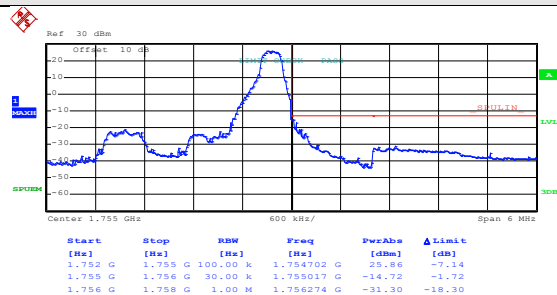
Test Mode:

LTE band 4(QPSK RB Size 1 &RB Offset5)



Date: 2.JUL.2016 15:30:39

Lowest channel

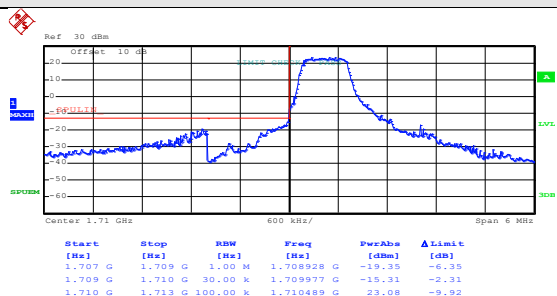


Date: 2.JUL.2016 15:33:33

Highest channel

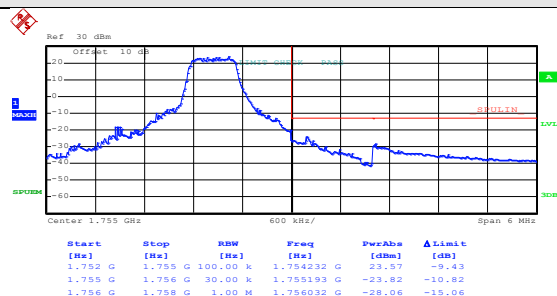
Test Mode:

LTE band 4(QPSK RB Size 3 &RB Offset0)



Date: 2.JUL.2016 15:30:56

Lowest channel

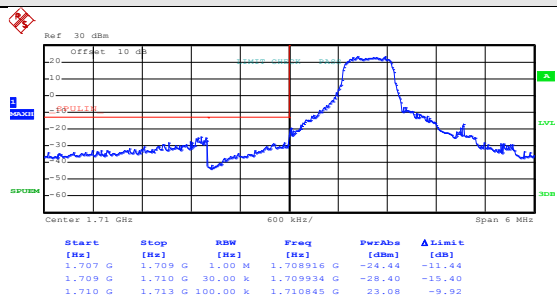


Date: 2.JUL.2016 15:33:51

Highest channel

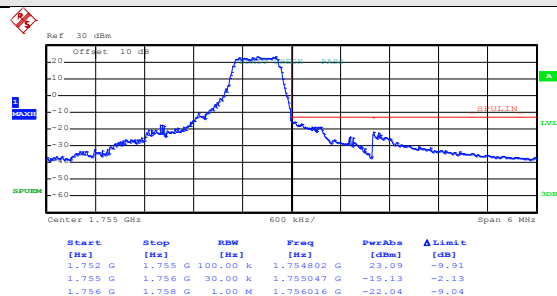
Test Mode:

LTE band 4(QPSK RB Size 3 &RB Offset 2)



Date: 2.JUL.2016 15:31:38

Lowest channel

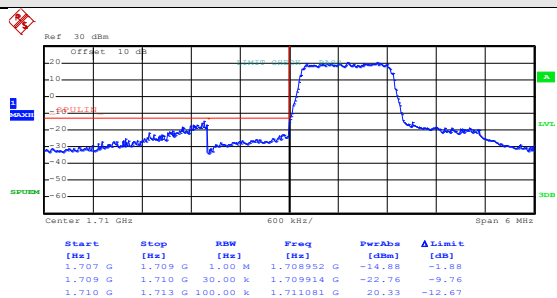


Date: 2.JUL.2016 15:34:28

Highest channel

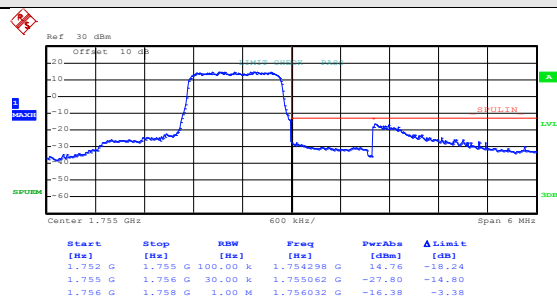
Test Mode:

LTE band 4(QPSK RB Size 6 & RB Offset 0)



Date: 2.JUL.2016 15:31:56

Lowest channel

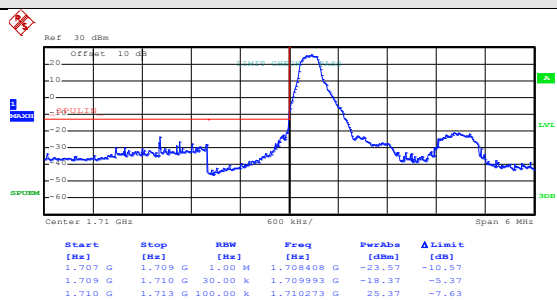


Date: 2.JUL.2016 17:15:17

Highest channel

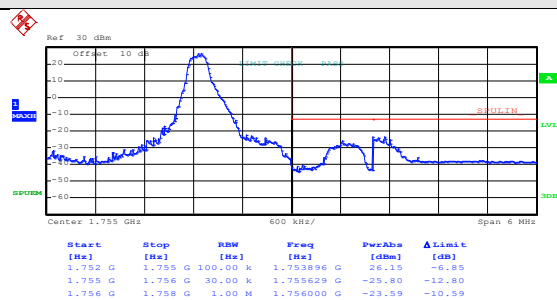
Test Mode:

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



Date: 2.JUL.2016 15:29:45

Lowest channel

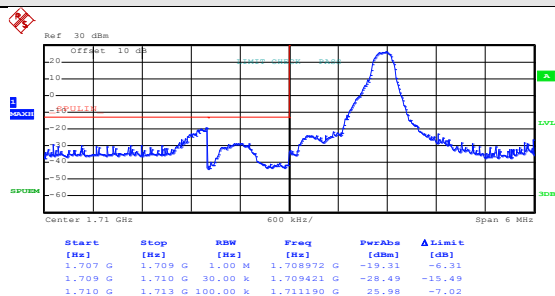


Date: 2.JUL.2016 15:33:08

Highest channel

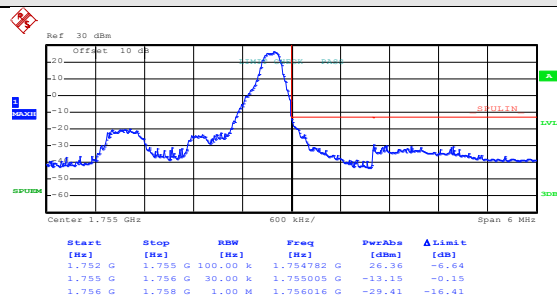
Test Mode:

LTE band 4(16QAM RB Size 1 &RB Offset5)



Date: 2.JUL.2016 15:30:26

Lowest channel

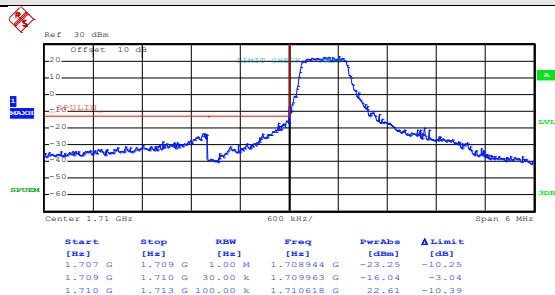


Date: 2.JUL.2016 15:33:22

Highest channel

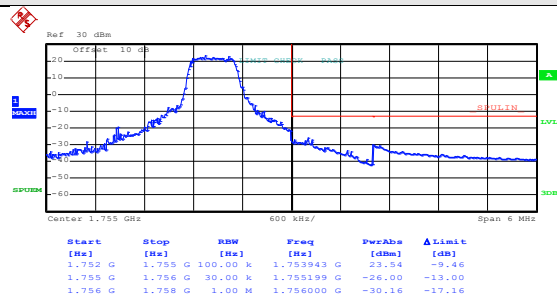
Test Mode:

LTE band 4(16QAM RB Size 3 &RB Offset0)



Date: 2.JUL.2016 15:31:10

Lowest channel

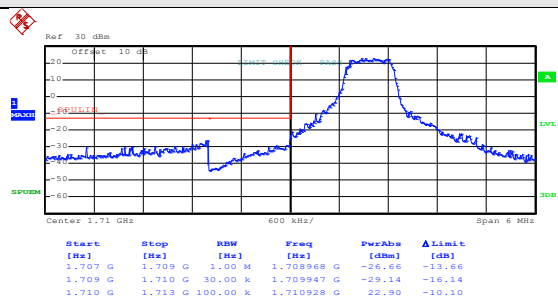


Date: 2.JUL.2016 15:34:04

Highest channel

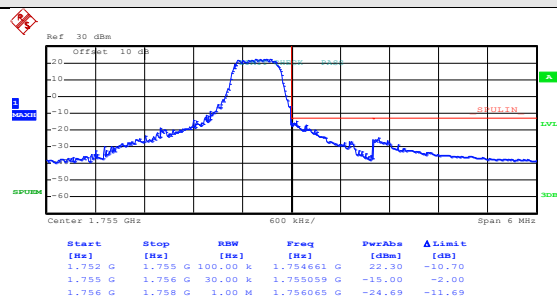
Test Mode:

LTE band 4(16QAM RB Size 3 &RB Offset 2)



Date: 2.JUL.2016 15:31:23

Lowest channel

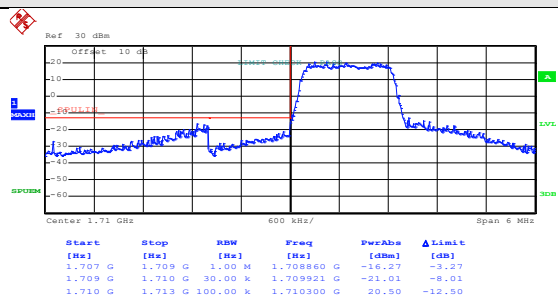


Date: 2.JUL.2016 15:34:15

Highest channel

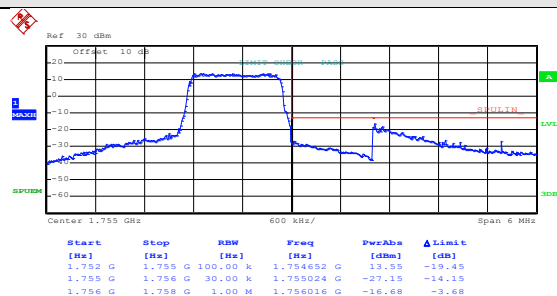
Test Mode:

LTE band 4(16QAM RB Size 6& RB Offset 0)



Date: 2.JUL.2016 15:32:08

Lowest channel



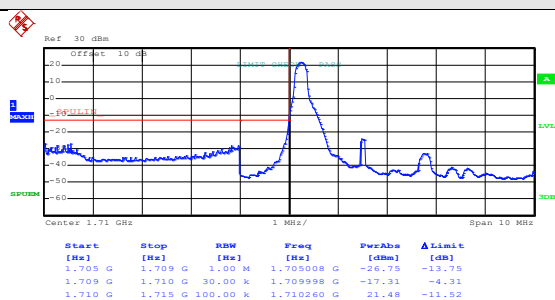
Date: 2.JUL.2016 17:15:29

Highest channel

3MHz:

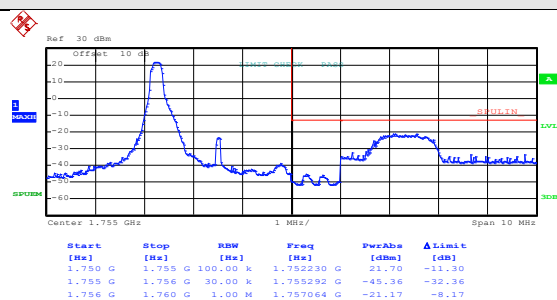
Test Mode:

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



Date: 2.JUL.2016 15:37:10

Lowest channel

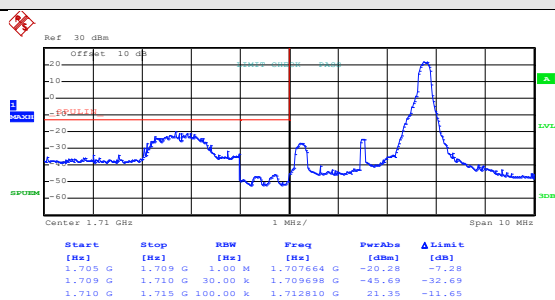


Date: 2.JUL.2016 15:41:37

Highest channel

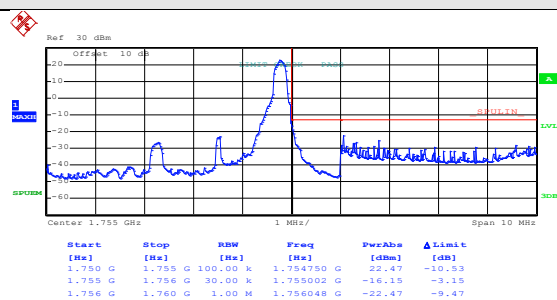
Test Mode:

LTE band 4(QPSK RB Size 1& RB Offset 14)



Date: 2.JUL.2016 15:37:59

Lowest channel

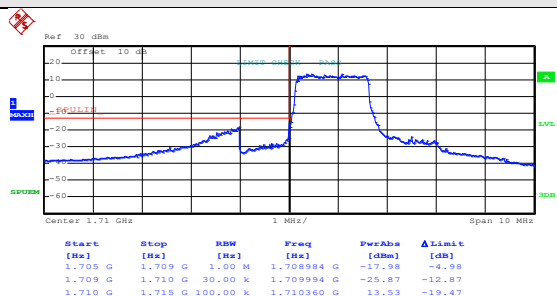


Date: 2.JUL.2016 15:42:14

Highest channel

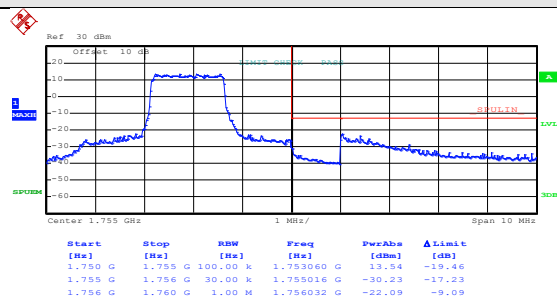
Test Mode:

LTE band 4(QPSK RB Size 8& RB Offset 0)



Date: 2.JUL.2016 15:39:29

Lowest channel

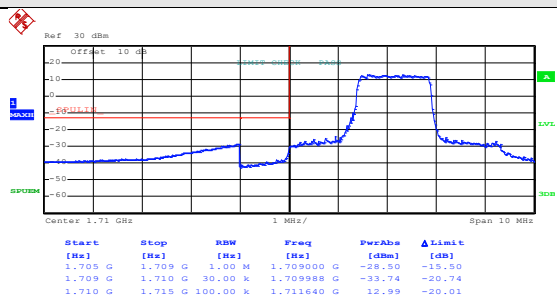


Date: 2.JUL.2016 15:42:48

Highest channel

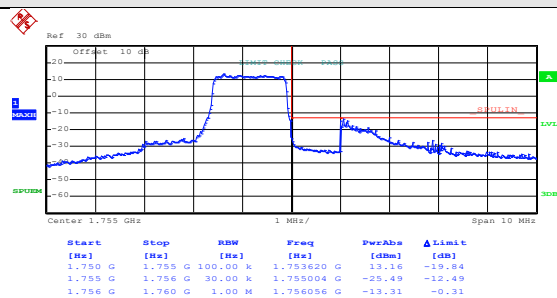
Test Mode:

LTE band 4(QPSK RB Size 8& RB Offset 7)



Date: 2.JUL.2016 15:40:10

Lowest channel

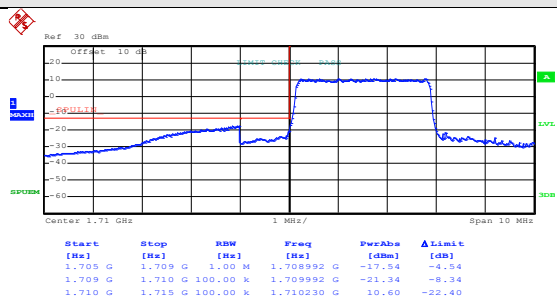


Date: 2.JUL.2016 15:43:27

Highest channel

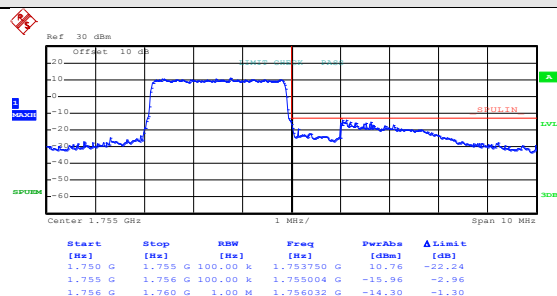
Test Mode:

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



Date: 2.JUL.2016 15:40:47

Lowest channel

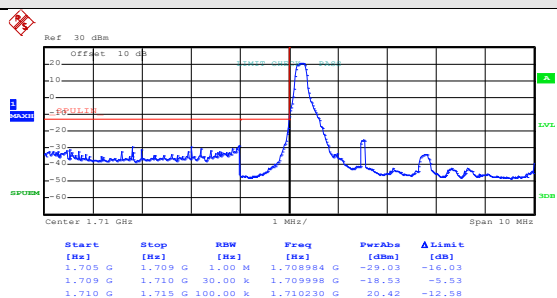


Date: 2.JUL.2016 15:43:51

Highest channel

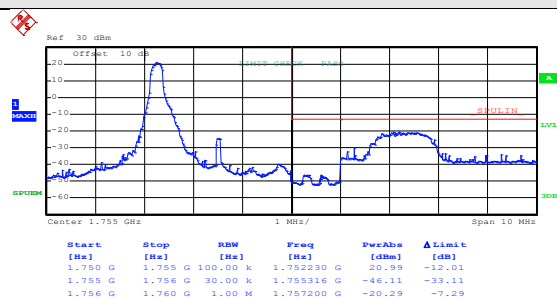
Test Mode:

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



Date: 2.JUL.2016 15:37:22

Lowest channel

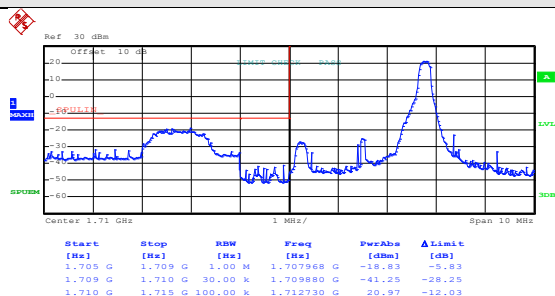


Date: 2.JUL.2016 15:41:51

Highest channel

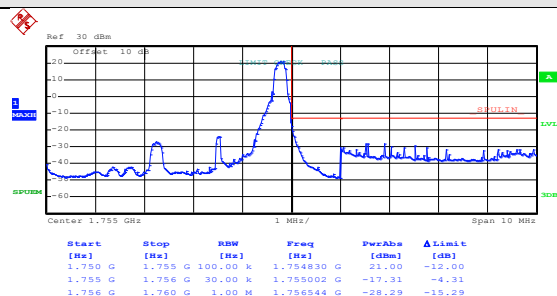
Test Mode:

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



Date: 2.JUL.2016 15:37:48

Lowest channel

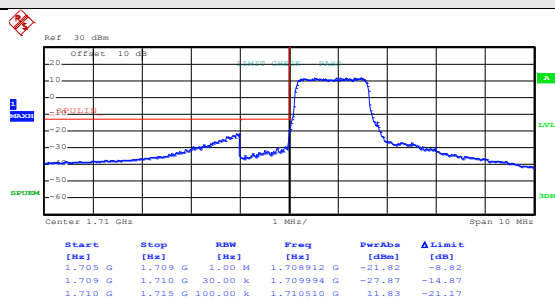


Date: 2.JUL.2016 15:42:03

Highest channel

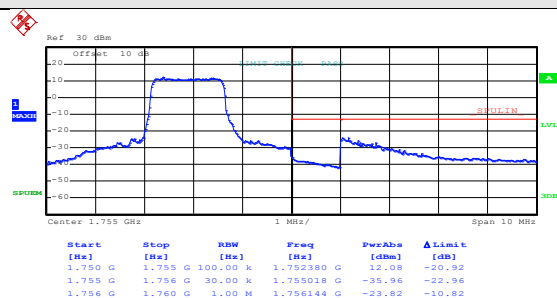
Test Mode:

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



Date: 2.JUL.2016 15:39:43

Lowest channel

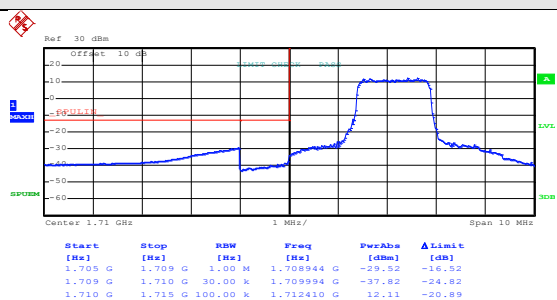


Date: 2.JUL.2016 15:43:03

Highest channel

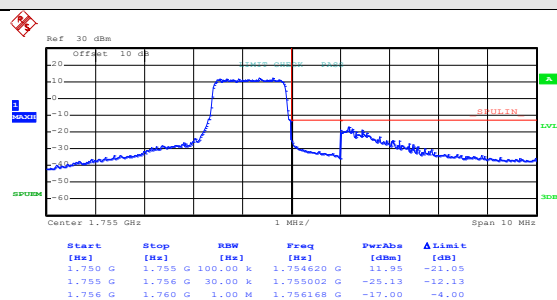
Test Mode:

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



Date: 2.JUL.2016 15:39:55

Lowest channel

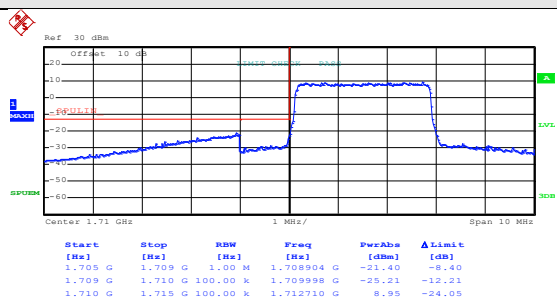


Date: 2.JUL.2016 15:43:15

Highest channel

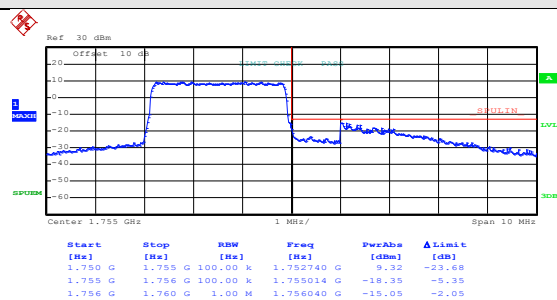
Test Mode:

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



Date: 2.JUL.2016 15:40:59

Lowest channel



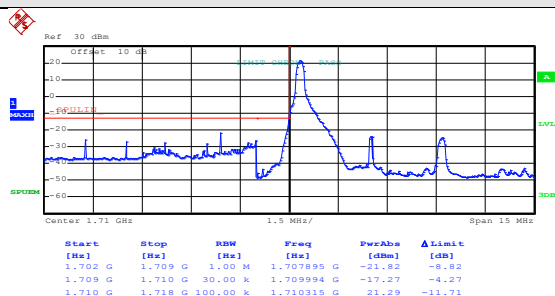
Date: 2.JUL.2016 15:44:03

Highest channel

5MHz:

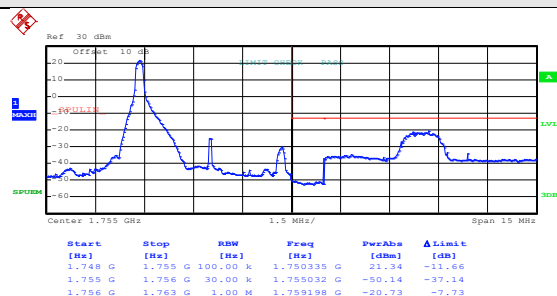
Test Mode:

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



Date: 2.JUL.2016 15:59:04

Lowest channel

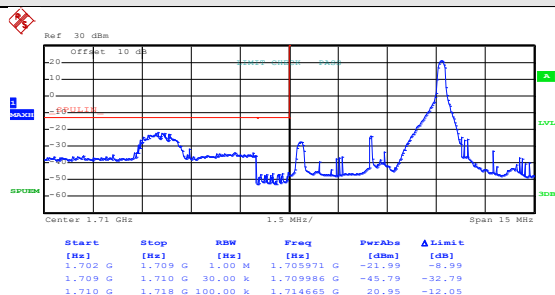


Date: 2.JUL.2016 16:02:58

Highest channel

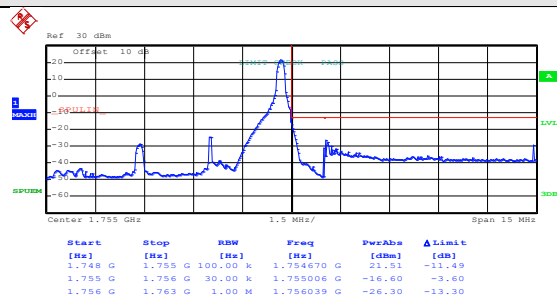
Test Mode:

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



Date: 2.JUL.2016 16:00:17

Lowest channel

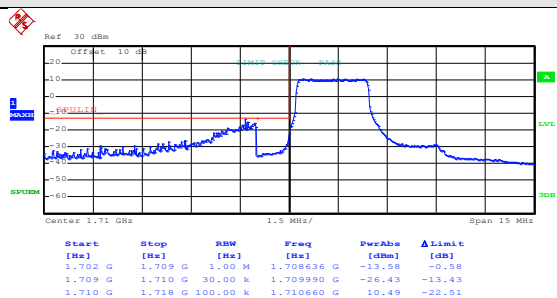


Date: 2.JUL.2016 16:30:10

Highest channel

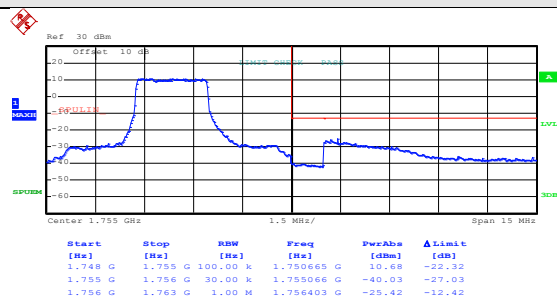
Test Mode:

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



Date: 2.JUL.2016 16:00:38

Lowest channel

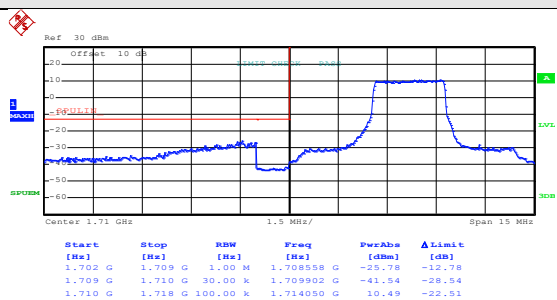


Date: 2.JUL.2016 16:30:34

Highest channel

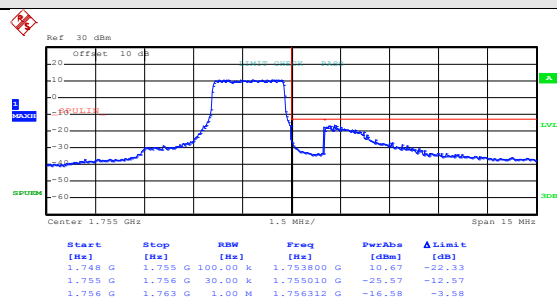
Test Mode:

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



Date: 2.JUL.2016 16:01:27

Lowest channel

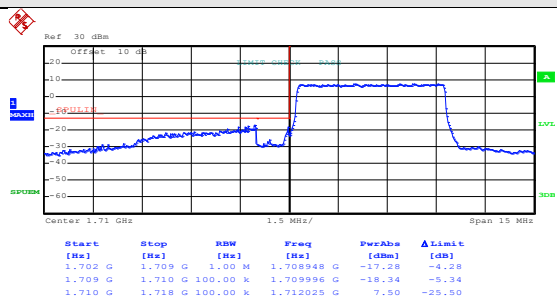


Date: 2.JUL.2016 16:31:17

Highest channel

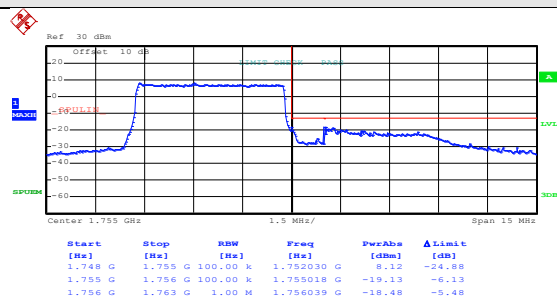
Test Mode:

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



Date: 2.JUL.2016 16:02:03

Lowest channel

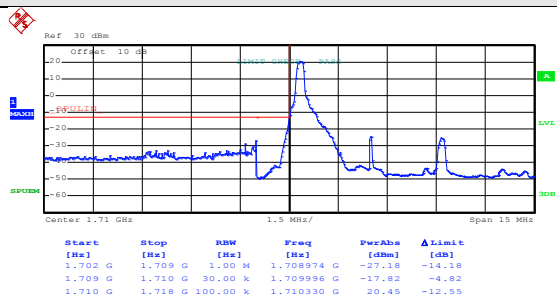


Date: 2.JUL.2016 16:31:40

Highest channel

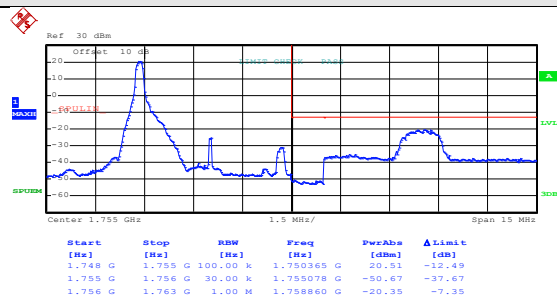
Test Mode:

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



Date: 2.JUL.2016 15:59:17

Lowest channel

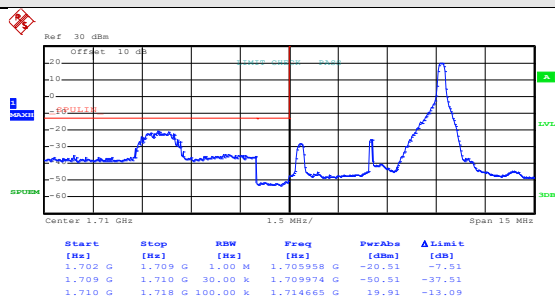


Date: 2.JUL.2016 16:03:16

Highest channel

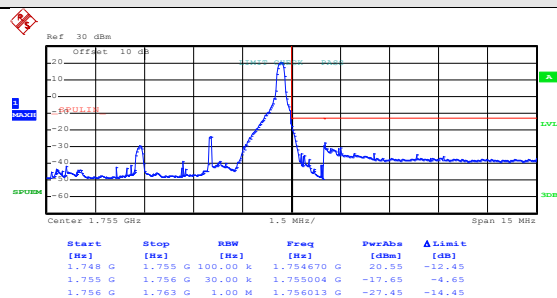
Test Mode:

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



Date: 2.JUL.2016 16:00:05

Lowest channel

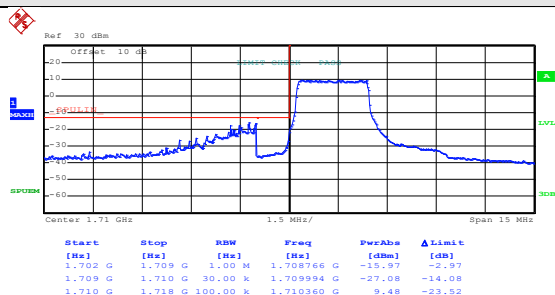


Date: 2.JUL.2016 16:21:59

Highest channel

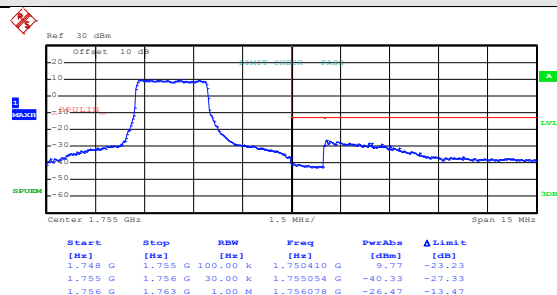
Test Mode:

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



Date: 2.JUL.2016 16:00:54

Lowest channel

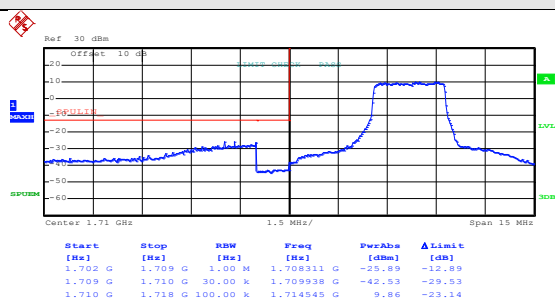


Date: 2.JUL.2016 16:30:49

Highest channel

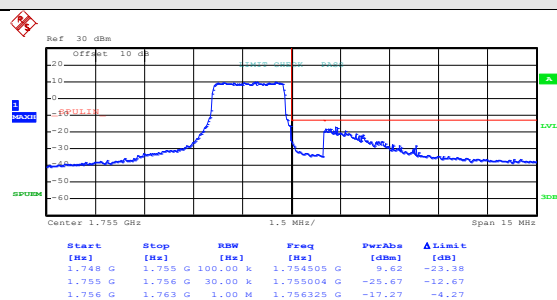
Test Mode:

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



Date: 2.JUL.2016 16:01:13

Lowest channel

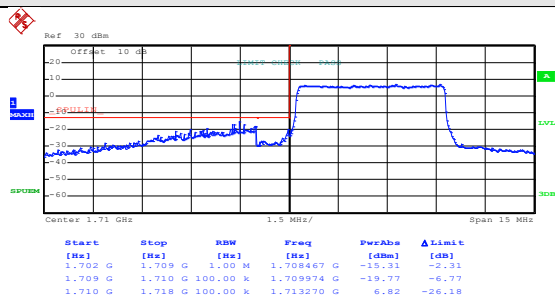


Date: 2.JUL.2016 16:31:02

Highest channel

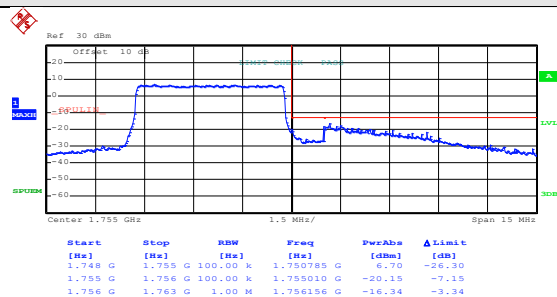
Test Mode:

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



Date: 2.JUL.2016 16:02:17

Lowest channel



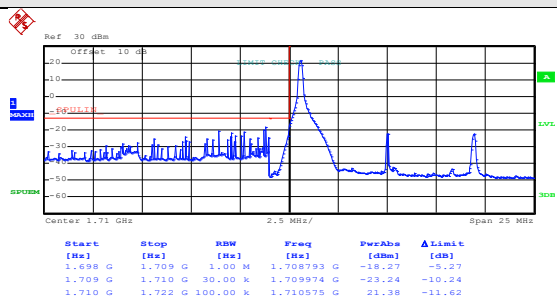
Date: 2.JUL.2016 16:32:00

Highest channel

10MHz:

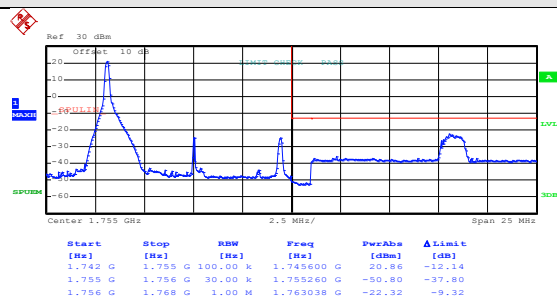
Test Mode:

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



Date: 2.JUL.2016 16:33:21

Lowest channel

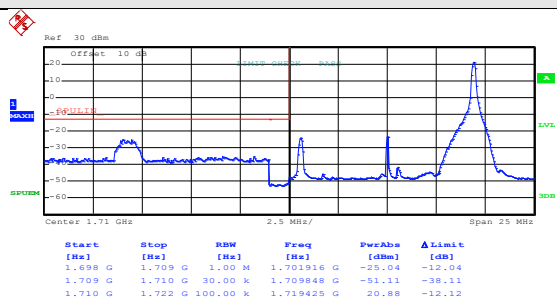


Date: 2.JUL.2016 16:44:19

Highest channel

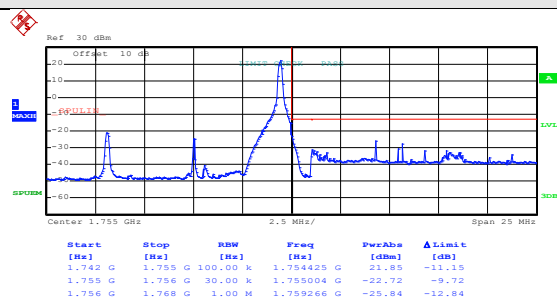
Test Mode:

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



Date: 2.JUL.2016 16:34:07

Lowest channel

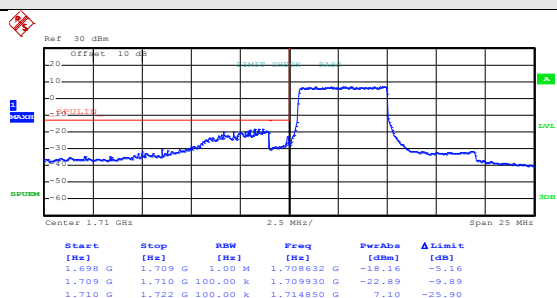


Date: 2.JUL.2016 16:45:00

Highest channel

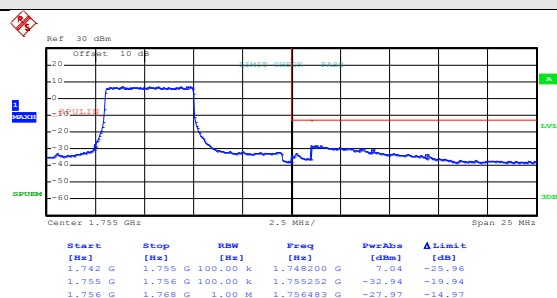
Test Mode:

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



Date: 2.JUL.2016 16:34:49

Lowest channel

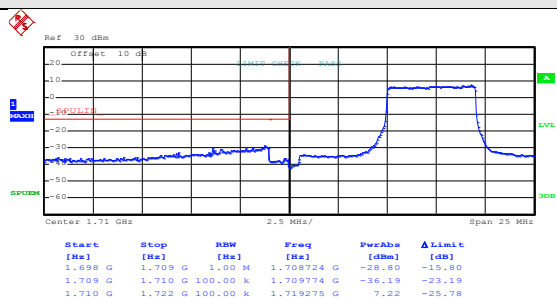


Date: 2.JUL.2016 16:45:34

Highest channel

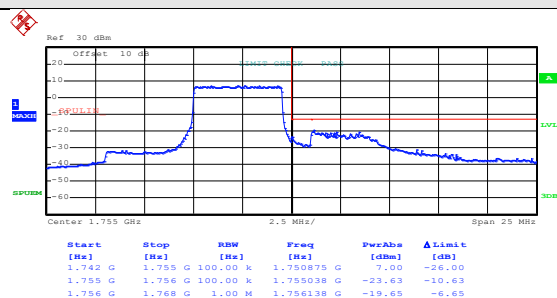
Test Mode:

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



Date: 2.JUL.2016 16:35:30

Lowest channel

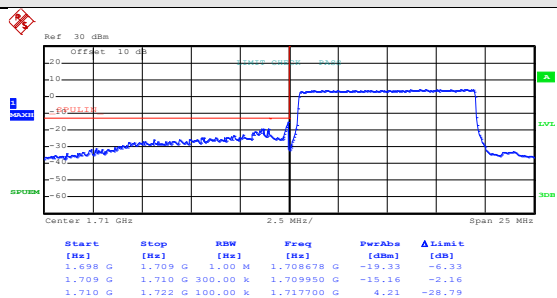


Date: 2.JUL.2016 16:46:19

Highest channel

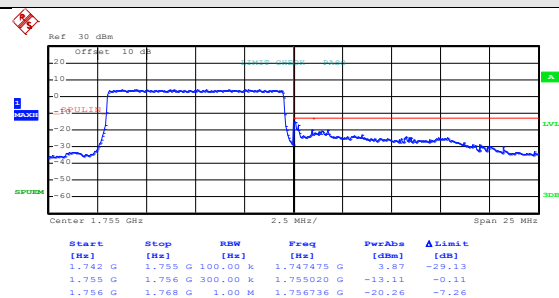
Test Mode:

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



Date: 2.JUL.2016 16:35:57

Lowest channel

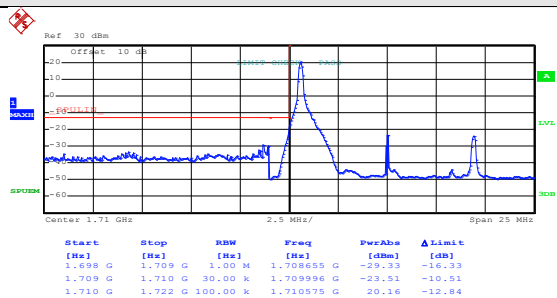


Date: 2.JUL.2016 16:46:48

Highest channel

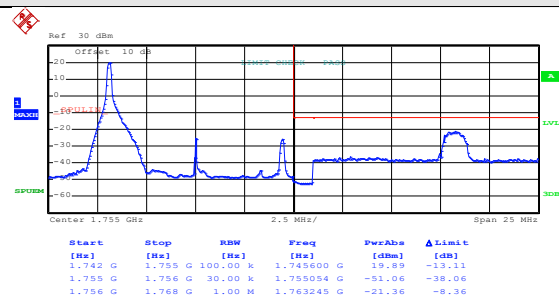
Test Mode:

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



Date: 2.JUL.2016 16:33:35

Lowest channel

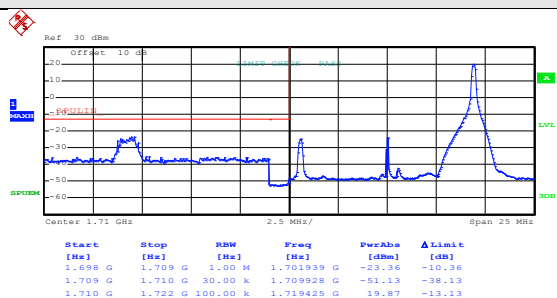


Date: 2.JUL.2016 16:44:33

Highest channel

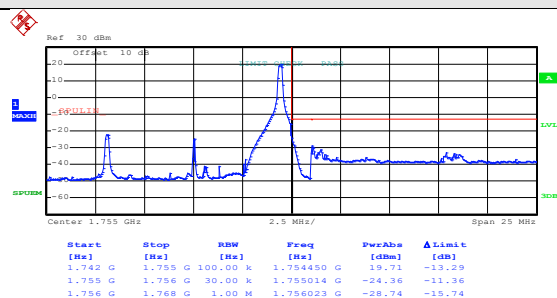
Test Mode:

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



Date: 2.JUL.2016 16:33:52

Lowest channel

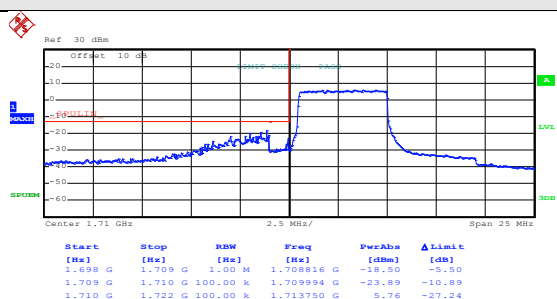


Date: 2.JUL.2016 16:44:48

Highest channel

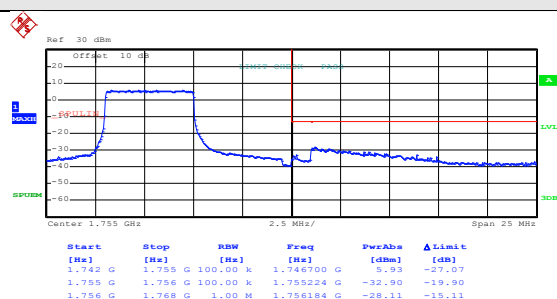
Test Mode:

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



Date: 2.JUL.2016 16:35:03

Lowest channel

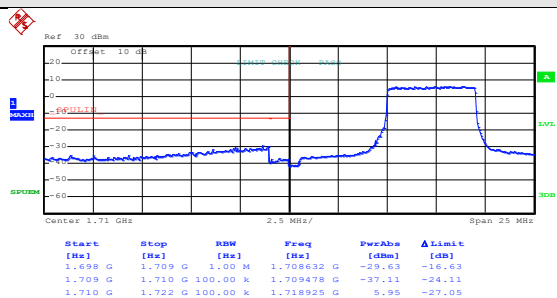


Date: 2.JUL.2016 16:45:52

Highest channel

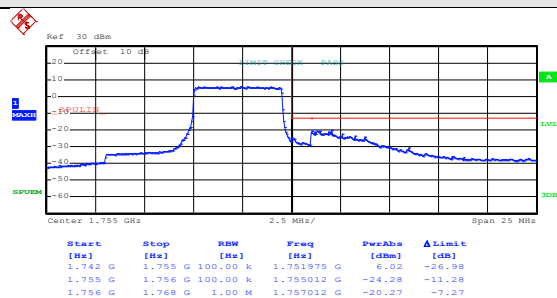
Test Mode:

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



Date: 2.JUL.2016 16:35:18

Lowest channel

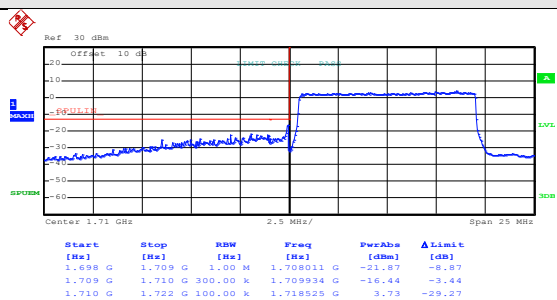


Date: 2.JUL.2016 16:46:05

Highest channel

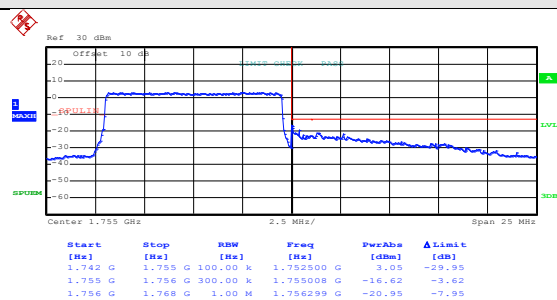
Test Mode:

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



Date: 2.JUL.2016 16:36:10

Lowest channel



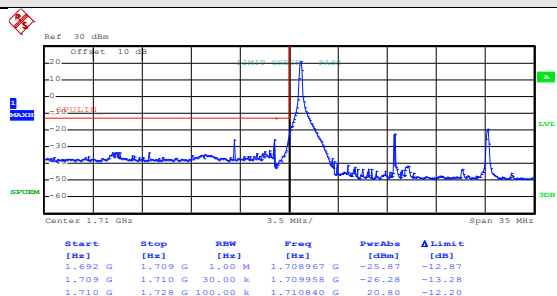
Date: 2.JUL.2016 16:47:00

Highest channel

15MHz:

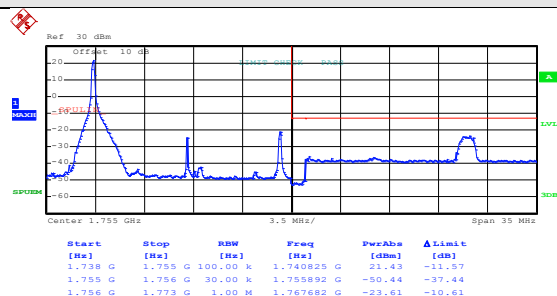
Test Mode:

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



Date: 2.JUL.2016 16:50:16

Lowest channel

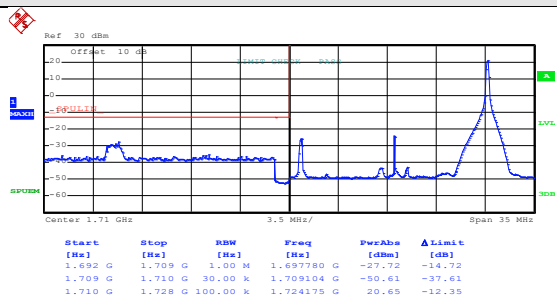


Date: 2.JUL.2016 16:54:17

Highest channel

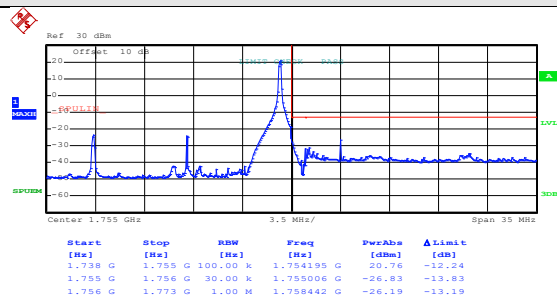
Test Mode:

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



Date: 2.JUL.2016 16:50:00

Lowest channel

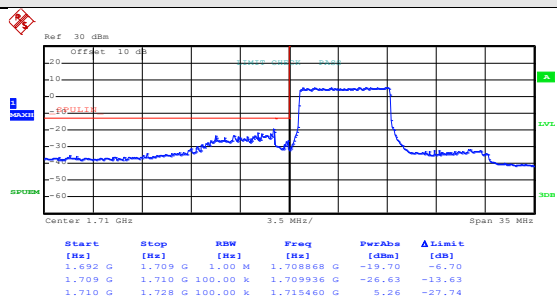


Date: 2.JUL.2016 16:54:57

Highest channel

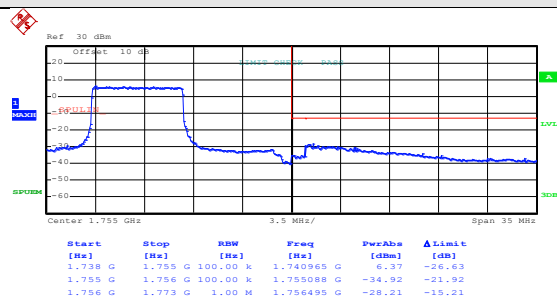
Test Mode:

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



Date: 2.JUL.2016 16:51:09

Lowest channel

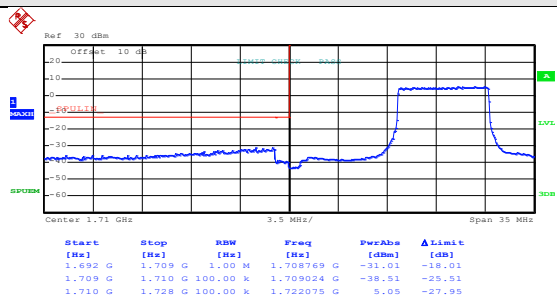


Date: 2.JUL.2016 16:55:26

Highest channel

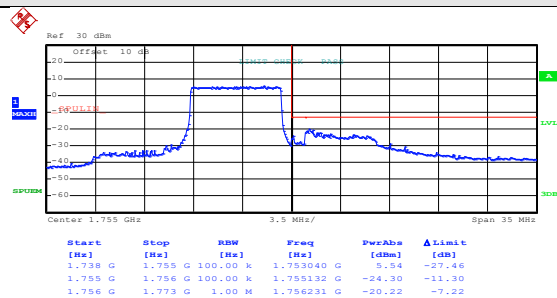
Test Mode:

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



Date: 2.JUL.2016 16:52:02

Lowest channel

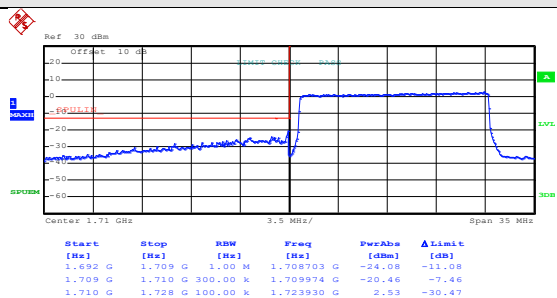


Date: 2.JUL.2016 16:56:17

Highest channel

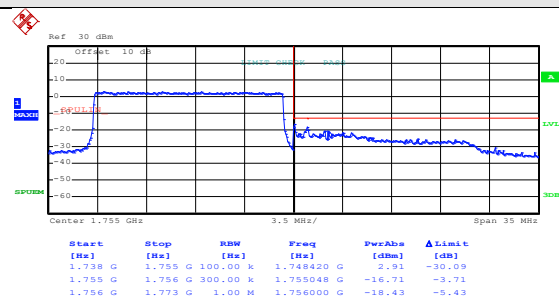
Test Mode:

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



Date: 2.JUL.2016 16:52:31

Lowest channel

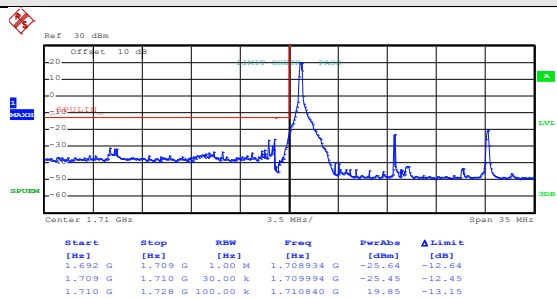


Date: 2.JUL.2016 16:56:40

Highest channel

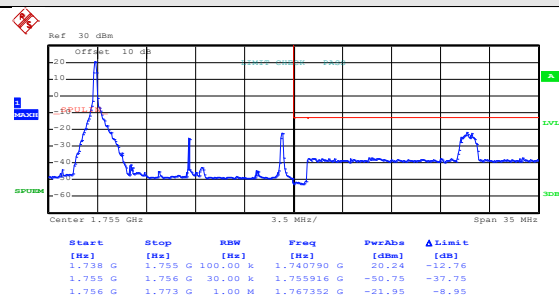
Test Mode:

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



Date: 2.JUL.2016 16:50:30

Lowest channel

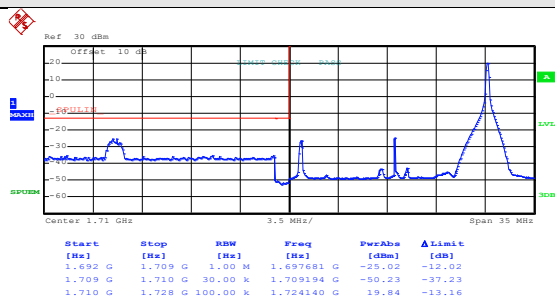


Date: 2.JUL.2016 16:54:31

Highest channel

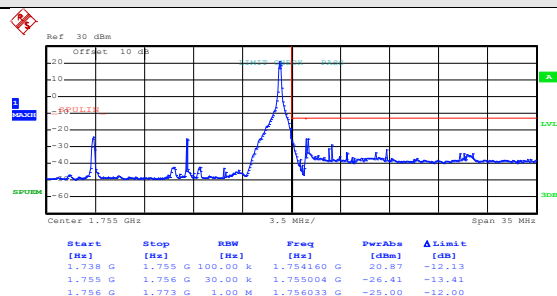
Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 74)



Date: 2.JUL.2016 16:49:47

Lowest channel

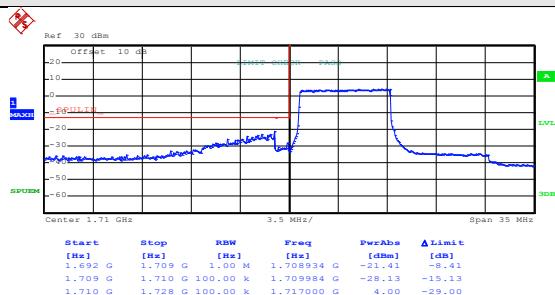


Date: 2.JUL.2016 16:54:45

Highest channel

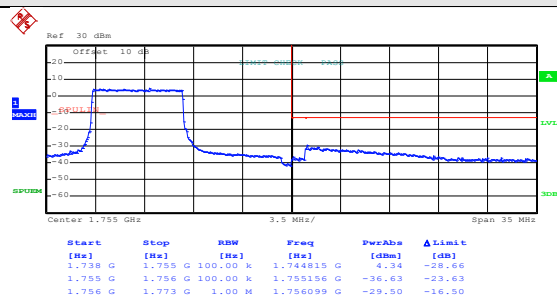
Test Mode:

LTE band 4(16QAM RB Size 36 & RB Offset 0)



Date: 2.JUL.2016 16:51:28

Lowest channel

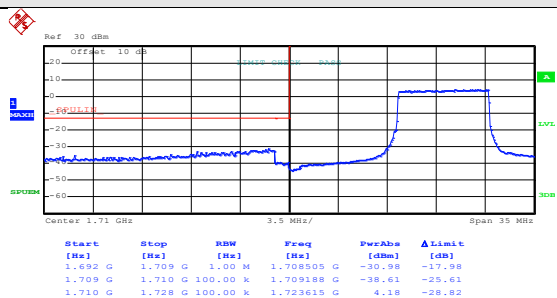


Date: 2.JUL.2016 16:55:44

Highest channel

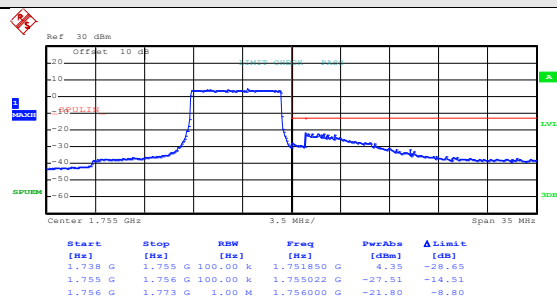
Test Mode:

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



Date: 2.JUL.2016 16:51:42

Lowest channel

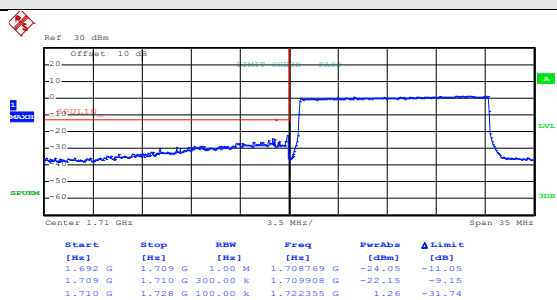


Date: 2.JUL.2016 16:55:59

Highest channel

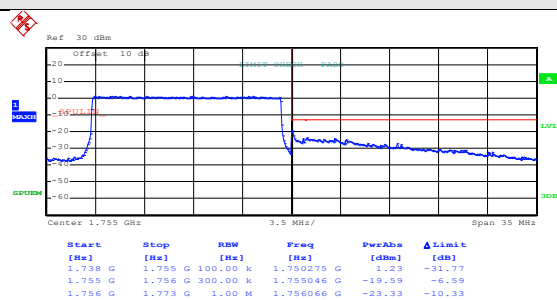
Test Mode:

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



Date: 2.JUL.2016 16:52:43

Lowest channel



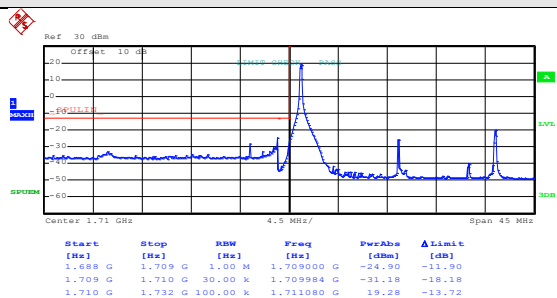
Date: 2.JUL.2016 16:56:54

Highest channel

20MHz:

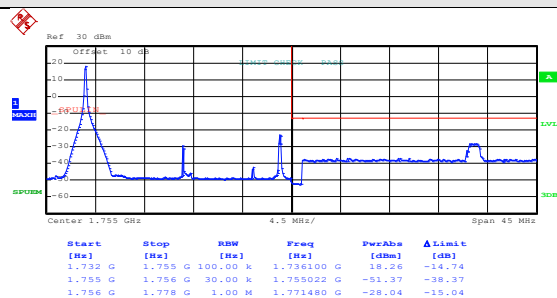
Test Mode:

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



Date: 7.JUL.2016 09:21:30

Lowest channel

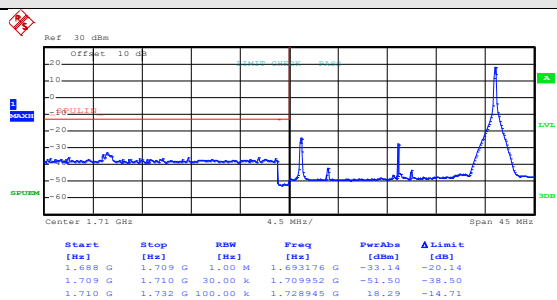


Date: 7.JUL.2016 09:25:43

Highest channel

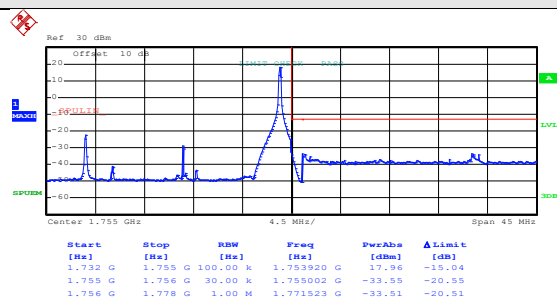
Test Mode:

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



Date: 7.JUL.2016 09:22:15

Lowest channel

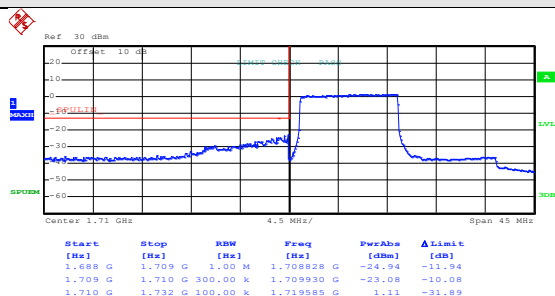


Date: 7.JUL.2016 09:26:21

Highest channel

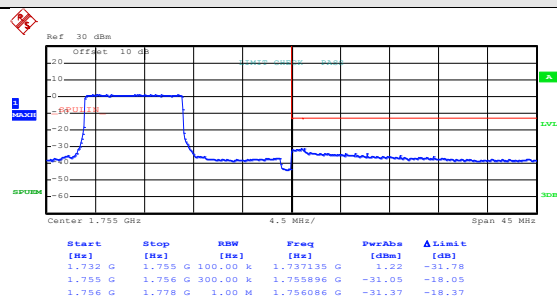
Test Mode:

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



Date: 7.JUL.2016 09:22:55

Lowest channel

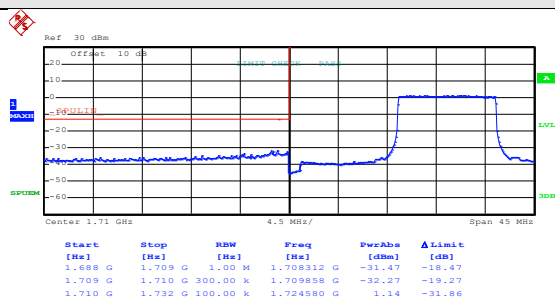


Date: 7.JUL.2016 09:26:58

Highest channel

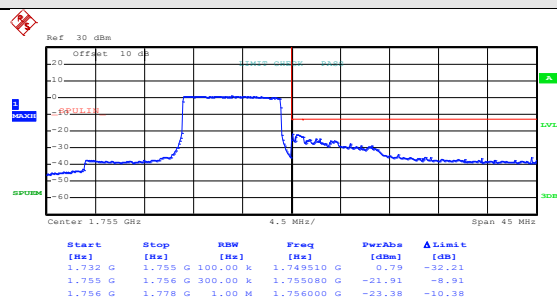
Test Mode:

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



Date: 7.JUL.2016 09:23:55

Lowest channel

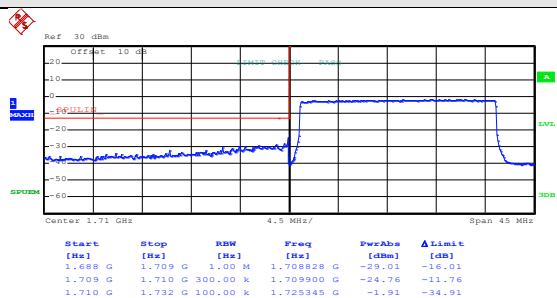


Date: 7.JUL.2016 09:27:43

Highest channel

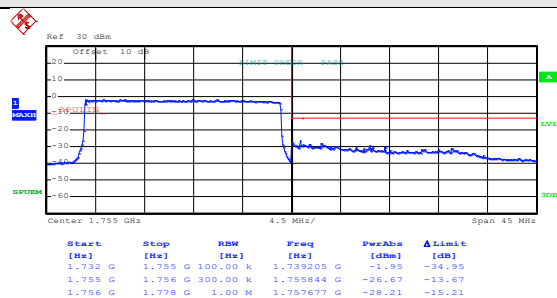
Test Mode:

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



Date: 7.JUL.2016 09:24:12

Lowest channel

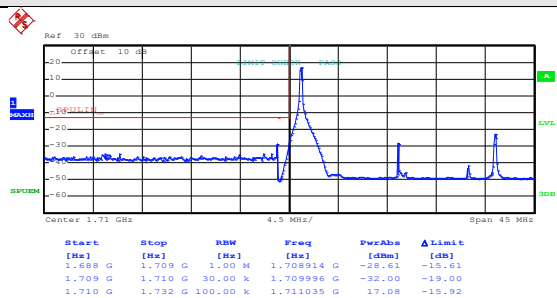


Date: 7.JUL.2016 09:28:00

Highest channel

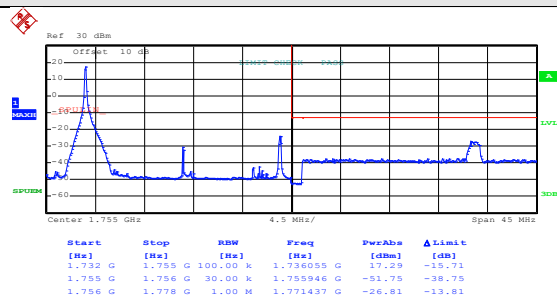
Test Mode:

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



Date: 7.JUL.2016 09:21:50

Lowest channel

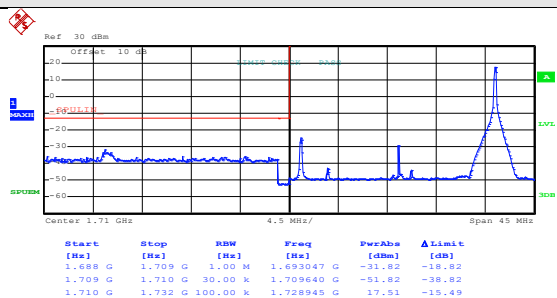


Date: 7.JUL.2016 09:25:58

Highest channel

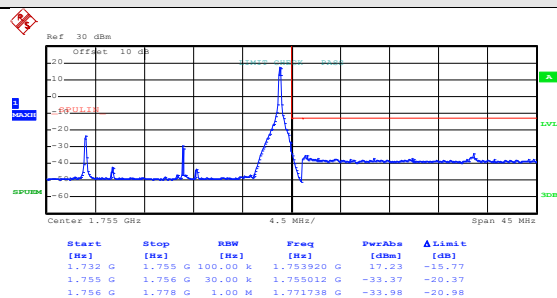
Test Mode:

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



Date: 7.JUL.2016 09:22:02

Lowest channel

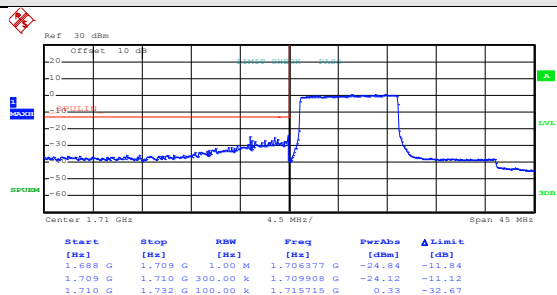


Date: 7.JUL.2016 09:26:11

Highest channel

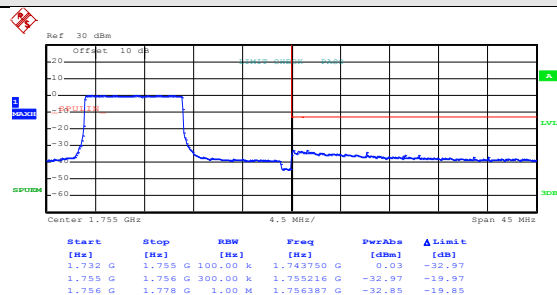
Test Mode:

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



Date: 7.JUL.2016 09:23:10

Lowest channel

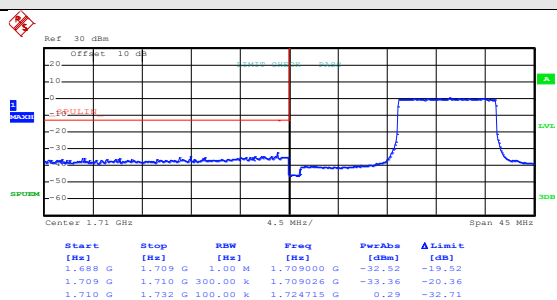


Date: 7.JUL.2016 09:27:13

Highest channel

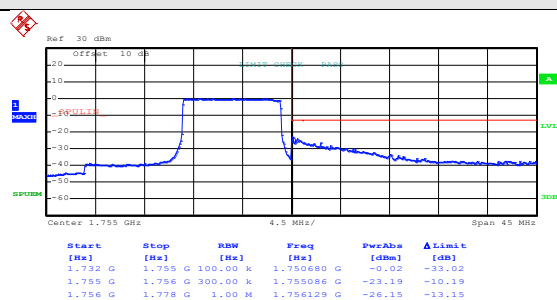
Test Mode:

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



Date: 7.JUL.2016 09:23:31

Lowest channel

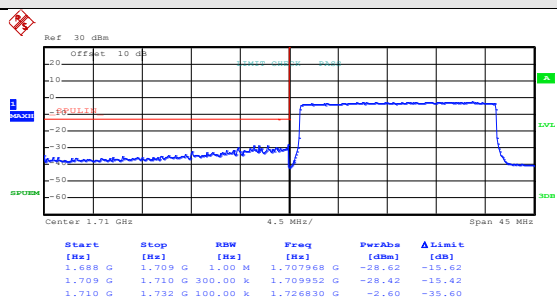


Date: 7.JUL.2016 09:27:24

Highest channel

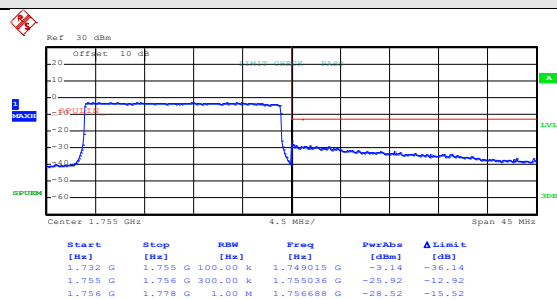
Test Mode:

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



Date: 7.JUL.2016 09:24:26

Lowest channel



Date: 7.JUL.2016 09:29:33

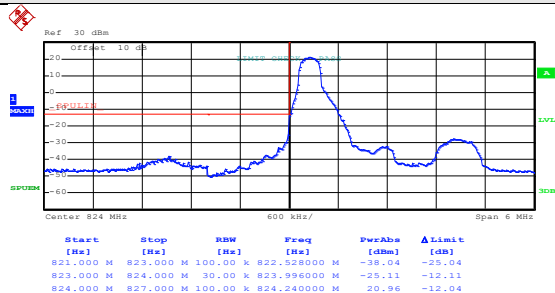
Highest channel

LTE band 5 part:

1.4MHz:

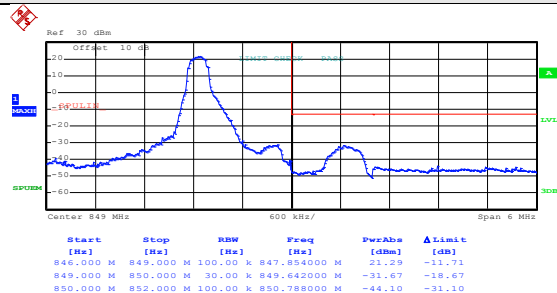
Test Mode:

LTE band 5(QPSK RB Size 1& RB Offset 0)



Date: 7.JUL.2016 09:35:23

Lowest channel

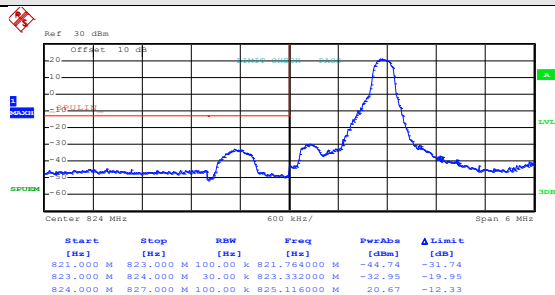


Date: 7.JUL.2016 09:38:02

Highest channel

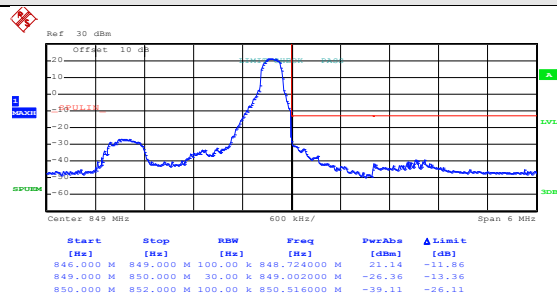
Test Mode:

LTE band 5(QPSK RB Size 1& RB Offset 5)



Date: 7.JUL.2016 09:36:02

Lowest channel

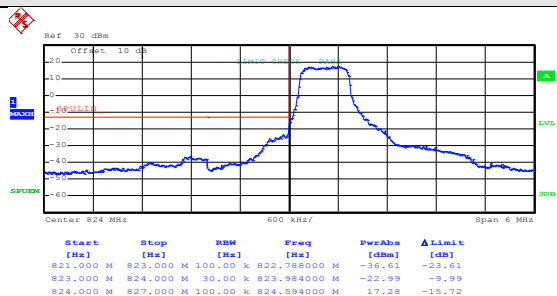


Date: 7.JUL.2016 09:38:38

Highest channel

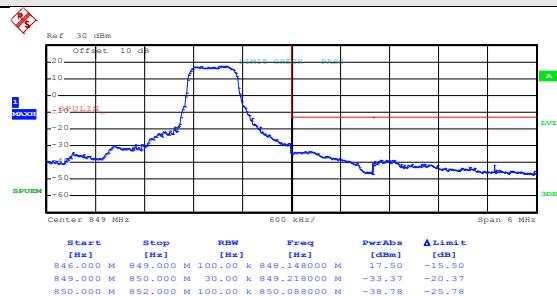
Test Mode:

LTE band 5(QPSK RB Size 3& RB Offset 0)



Date: 7.JUL.2016 09:36:17

Lowest channel

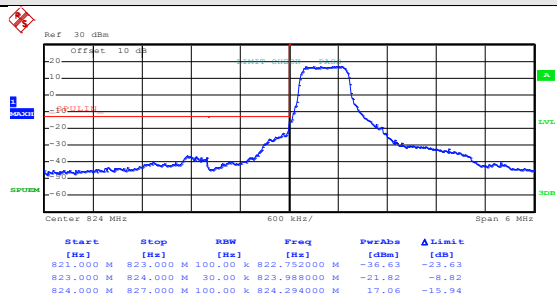


Date: 7.JUL.2016 09:39:00

Highest channel

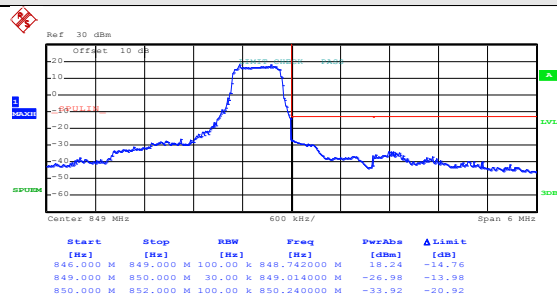
Test Mode:

LTE band 5(QPSK RB Size 3& RB Offset 2)



Date: 7.JUL.2016 09:36:56

Lowest channel

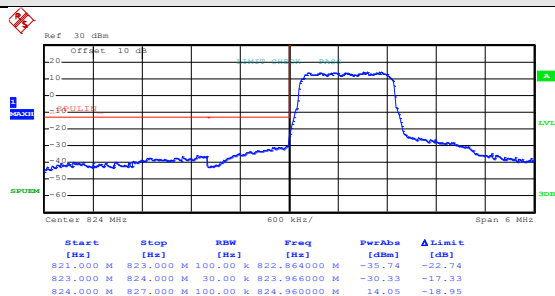


Date: 7.JUL.2016 09:39:36

Highest channel

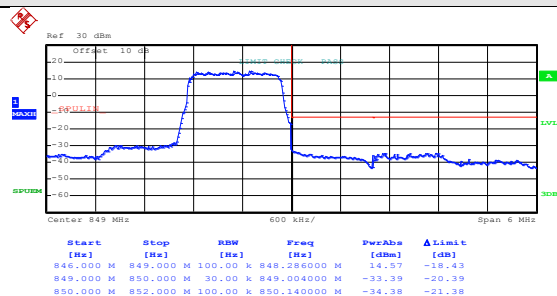
Test Mode:

LTE band 5 (QPSK RB Size 6& RB Offset 0)



Date: 7.JUL.2016 09:37:12

Lowest channel

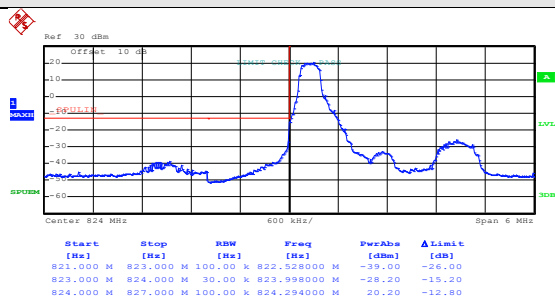


Date: 7.JUL.2016 09:39:50

Highest channel

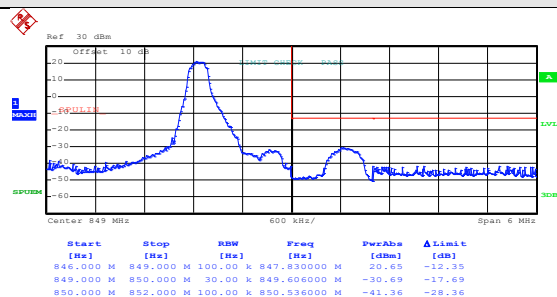
Test Mode:

LTE band 5 (16QAM RB Size 1& RB Offset 0)



Date: 7.JUL.2016 09:35:38

Lowest channel

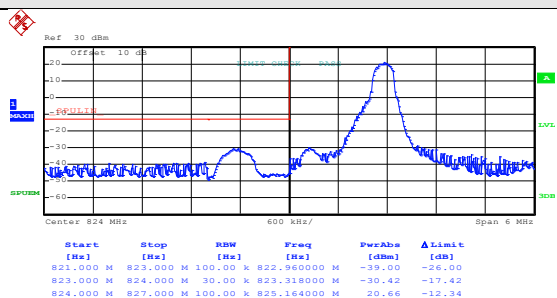


Date: 7.JUL.2016 09:38:15

Highest channel

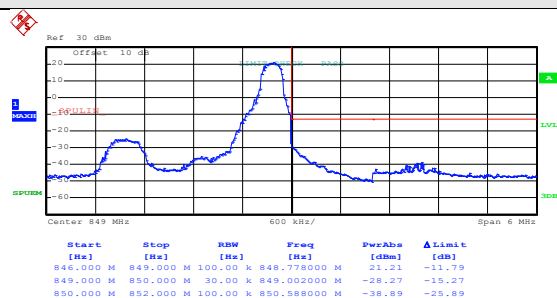
Test Mode:

LTE band 5 (16QAM RB Size 1& RB Offset 5)



Date: 7.JUL.2016 09:35:50

Lowest channel

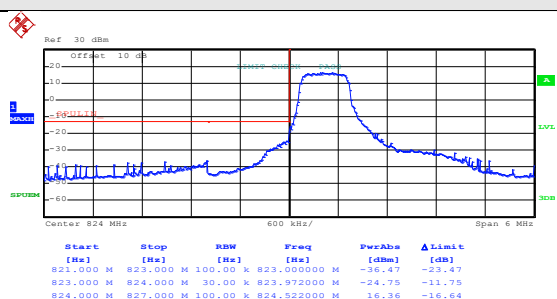


Date: 7.JUL.2016 09:38:26

Highest channel

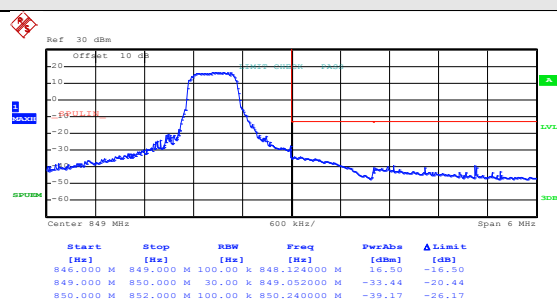
Test Mode:

LTE band 5 (16QAM RB Size 3& RB Offset 0)



Date: 7.JUL.2016 09:36:30

Lowest channel

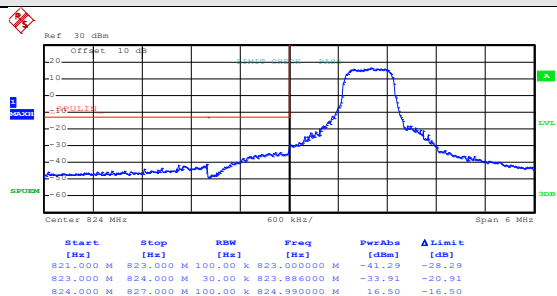


Date: 7.JUL.2016 09:39:13

Highest channel

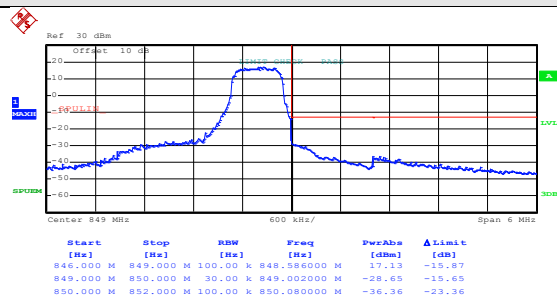
Test Mode:

LTE band 5 (16QAM RB Size 3& RB Offset 2)



Date: 7.JUL.2016 09:36:43

Lowest channel

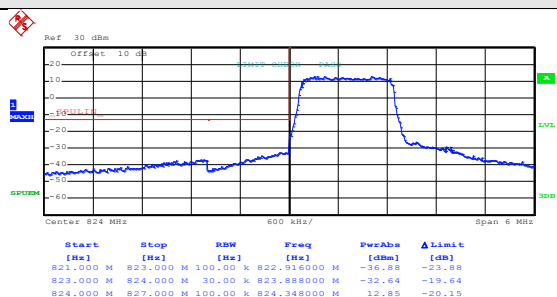


Date: 7.JUL.2016 09:39:24

Highest channel

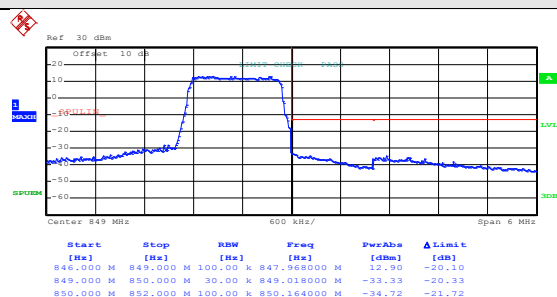
Test Mode:

LTE band 5 (16QAM RB Size 6& RB Offset 0)



Date: 7.JUL.2016 09:37:25

Lowest channel



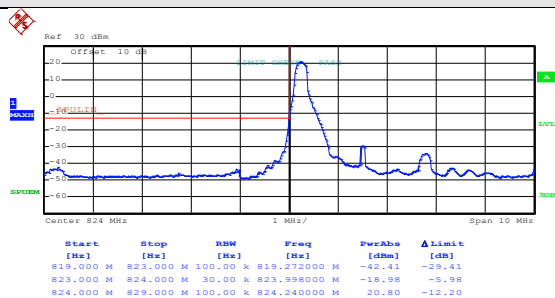
Date: 7.JUL.2016 09:40:01

Highest channel

3MHz:

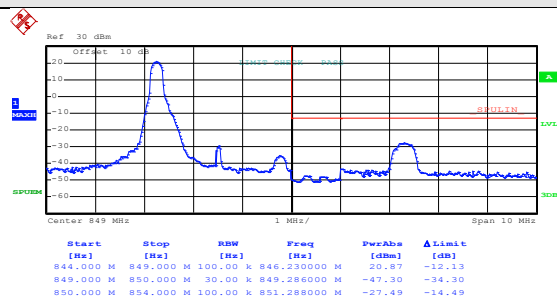
Test Mode:

LTE band 5 (QPSK RB Size 1& RB Offset 0)



Date: 7.JUL.2016 09:48:22

Lowest channel

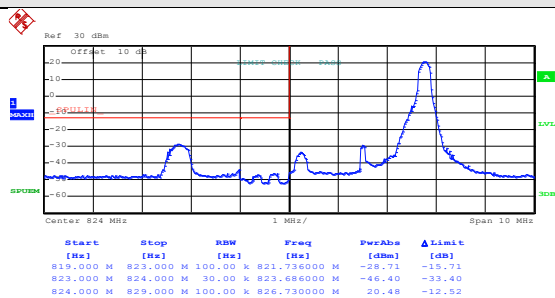


Date: 7.JUL.2016 09:59:14

Highest channel

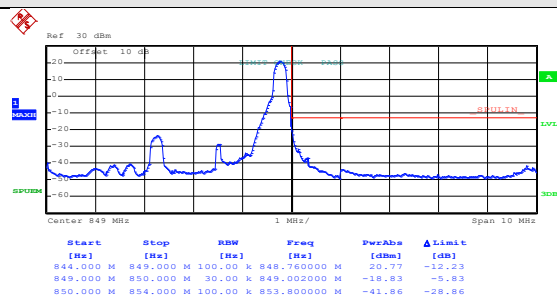
Test Mode:

LTE band 5 (QPSK RB Size 1& RB Offset 14)



Date: 7.JUL.2016 09:55:45

Lowest channel

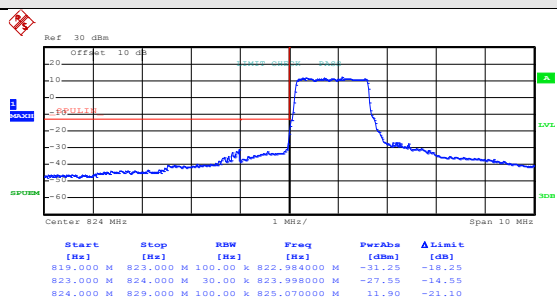


Date: 7.JUL.2016 09:59:55

Highest channel

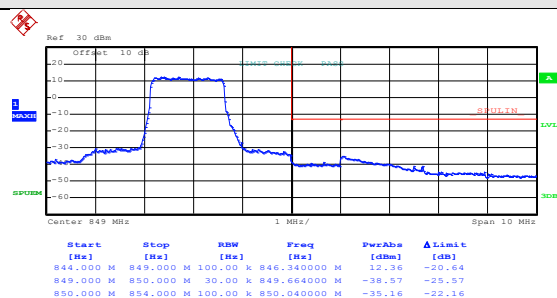
Test Mode:

LTE band 5 (QPSK RB Size 8& RB Offset 0)



Date: 7.JUL.2016 09:56:01

Lowest channel

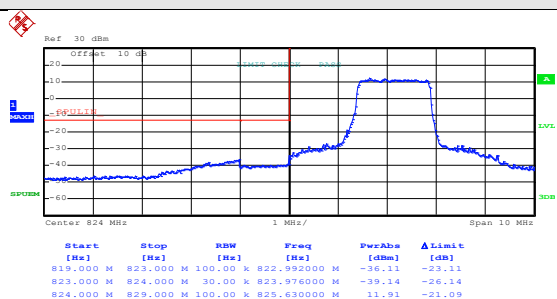


Date: 7.JUL.2016 10:00:12

Highest channel

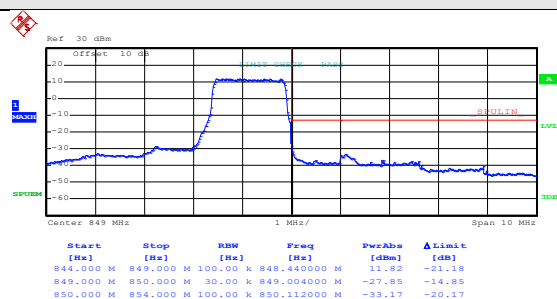
Test Mode:

LTE band 5 (QPSK RB Size 8& RB Offset 7)



Date: 7.JUL.2016 09:57:17

Lowest channel

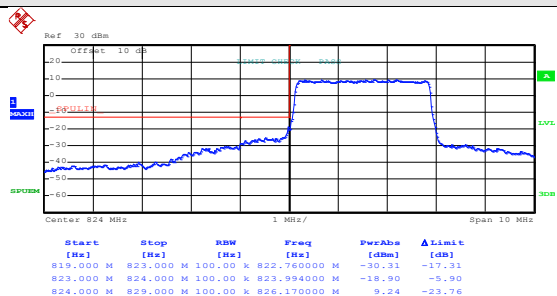


Date: 7.JUL.2016 10:00:49

Highest channel

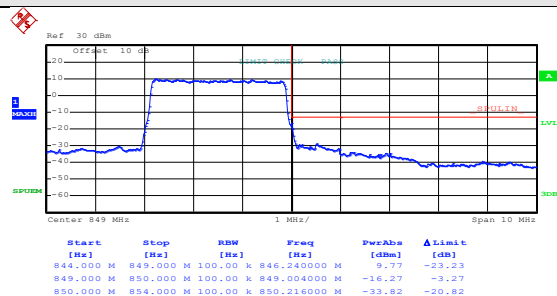
Test Mode:

LTE band 5(QPSK RB Size 15& RB Offset 0)



Date: 7.JUL.2016 09:57:47

Lowest channel

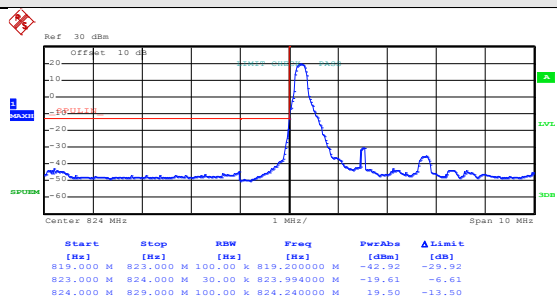


Date: 7.JUL.2016 10:01:11

Highest channel

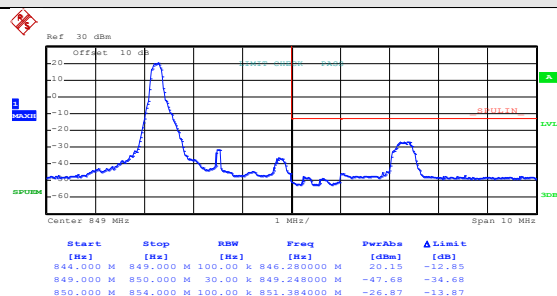
Test Mode:

LTE band 5(16QAM RB Size 1& RB Offset 0)



Date: 7.JUL.2016 09:55:21

Lowest channel

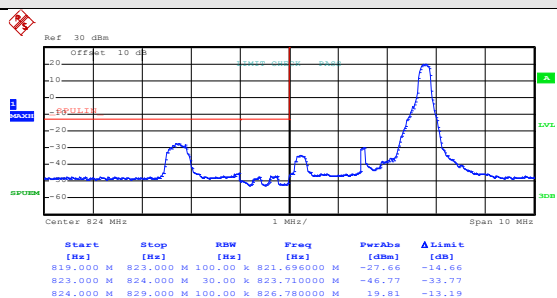


Date: 7.JUL.2016 09:59:30

Highest channel

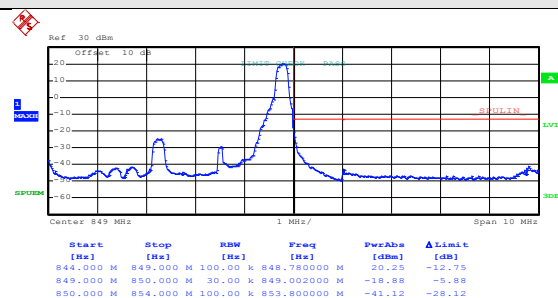
Test Mode:

LTE band 5(16QAM RB Size 1& RB Offset 14)



Date: 7.JUL.2016 09:55:34

Lowest channel

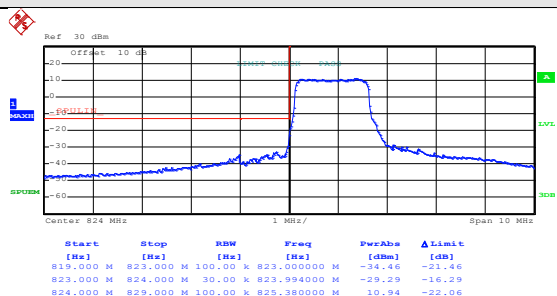


Date: 7.JUL.2016 09:59:43

Highest channel

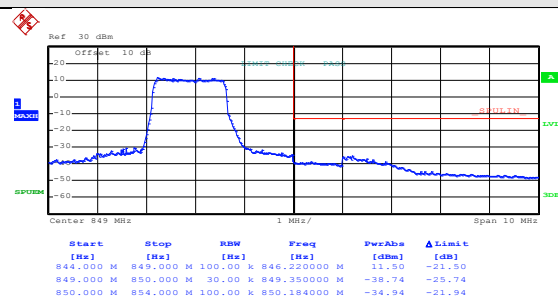
Test Mode:

LTE band 5(16QAM RB Size 8& RB Offset 0)



Date: 7.JUL.2016 09:56:23

Lowest channel

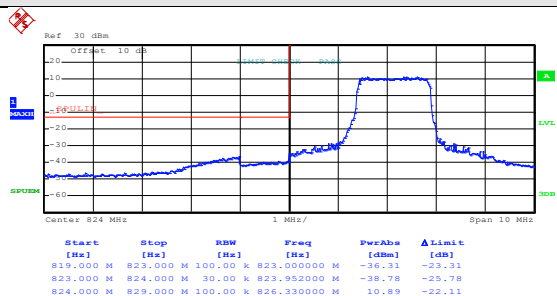


Date: 7.JUL.2016 10:00:24

Highest channel

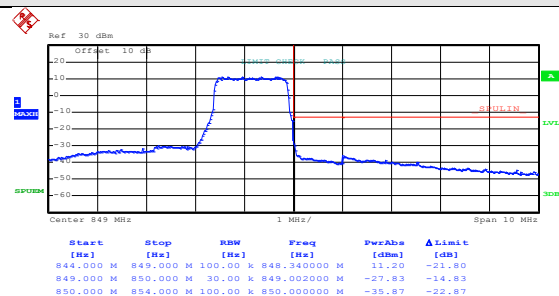
Test Mode:

LTE band 5(16QAM RB Size 8& RB Offset 7)



Date: 7.JUL.2016 09:56:58

Lowest channel

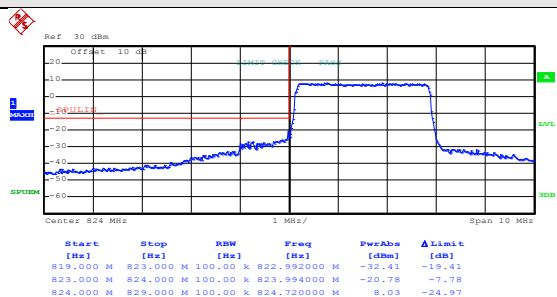


Date: 7.JUL.2016 10:00:36

Highest channel

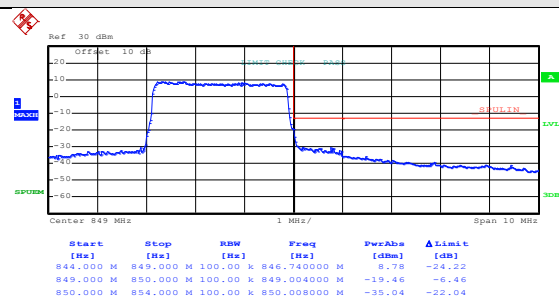
Test Mode:

LTE band 5(16QAM RB Size 15& RB Offset 0)



Date: 7.JUL.2016 09:57:59

Lowest channel



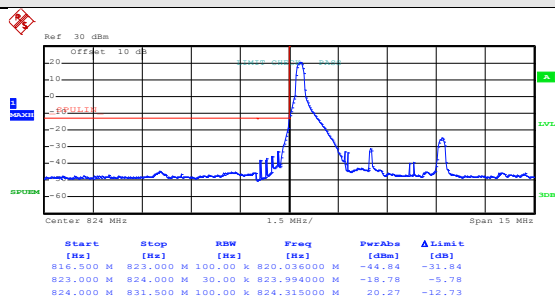
Date: 7.JUL.2016 10:01:22

Highest channel

5MHz:

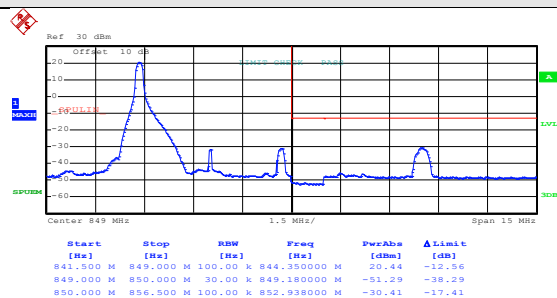
Test Mode:

LTE band 5(QPSK RB Size 1& RB Offset 0)



Date: 7.JUL.2016 10:05:39

Lowest channel

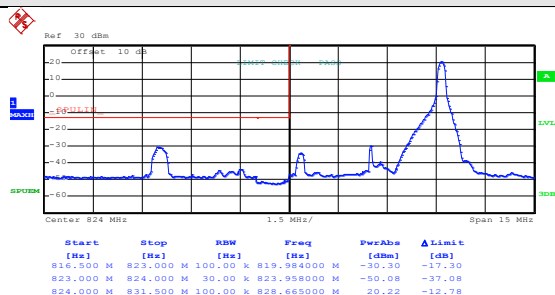


Date: 7.JUL.2016 10:18:36

Highest channel

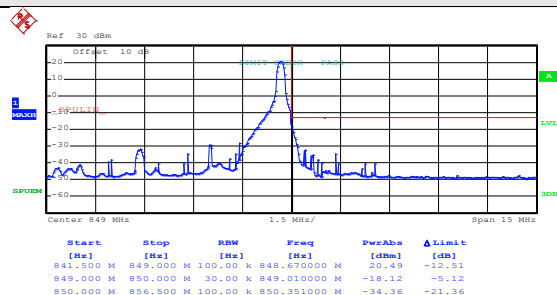
Test Mode:

LTE band 5(QPSK RB Size 1 & RB Offset 24)



Date: 7.JUL.2016 10:06:19

Lowest channel

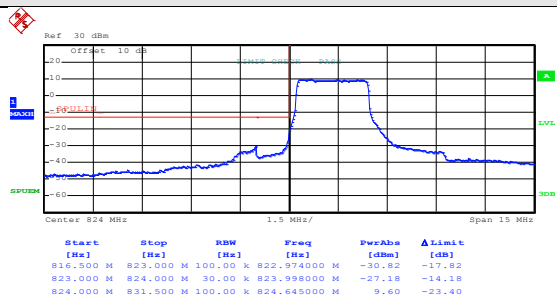


Date: 7.JUL.2016 10:19:26

Highest channel

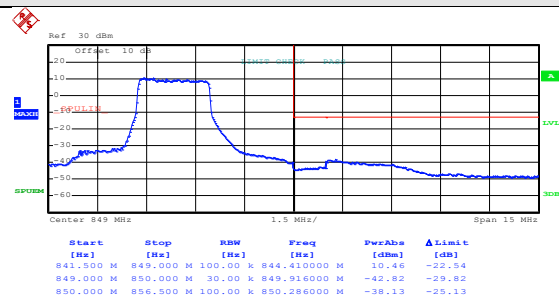
Test Mode:

LTE band 5(QPSK RB Size 12& RB Offset 0)



Date: 7.JUL.2016 10:06:46

Lowest channel

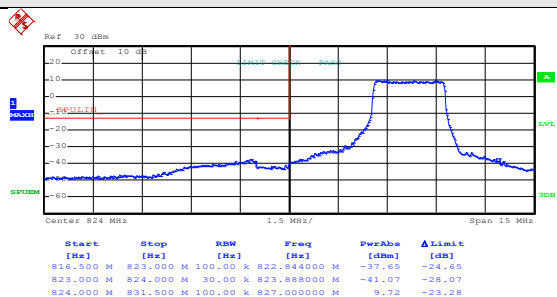


Date: 7.JUL.2016 10:20:11

Highest channel

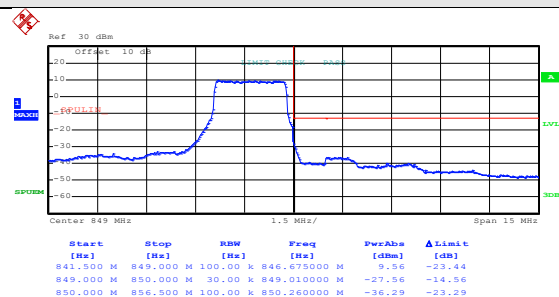
Test Mode:

LTE band 5(QPSK RB Size 12& RB Offset 11)



Date: 7.JUL.2016 10:14:56

Lowest channel

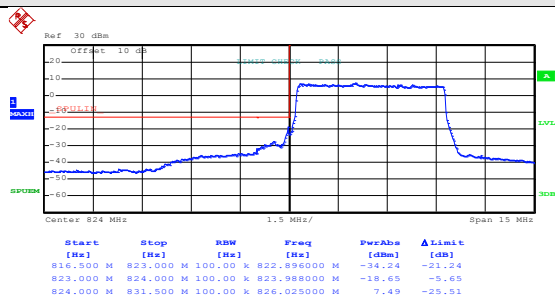


Date: 7.JUL.2016 10:21:21

Highest channel

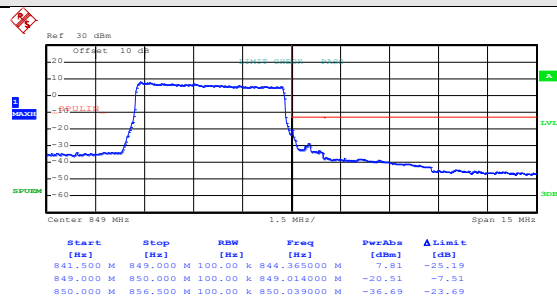
Test Mode:

LTE band 5(QPSK RB Size 25& RB Offset 0)



Date: 7.JUL.2016 10:15:22

Lowest channel

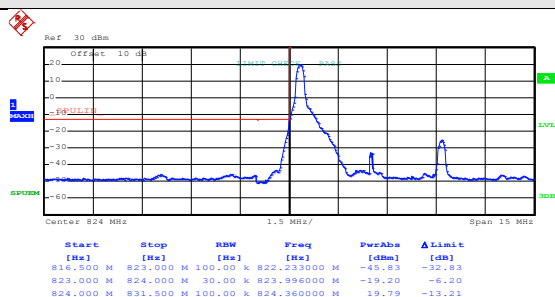


Date: 7.JUL.2016 10:21:57

Highest channel

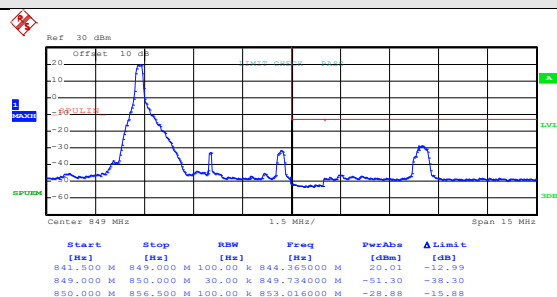
Test Mode:

LTE band 5(16QAM RB Size 1 & RB Offset 0)



Date: 7.JUL.2016 10:05:53

Lowest channel

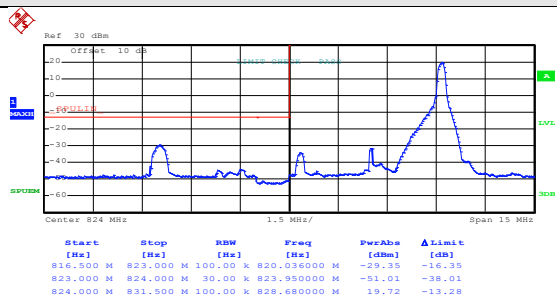


Date: 7.JUL.2016 10:18:49

Highest channel

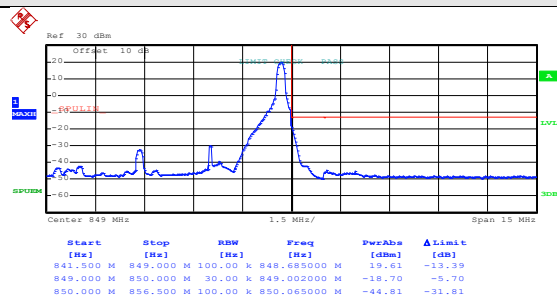
Test Mode:

LTE band 5(16QAM RB Size 1 & RB Offset 24)



Date: 7.JUL.2016 10:06:08

Lowest channel

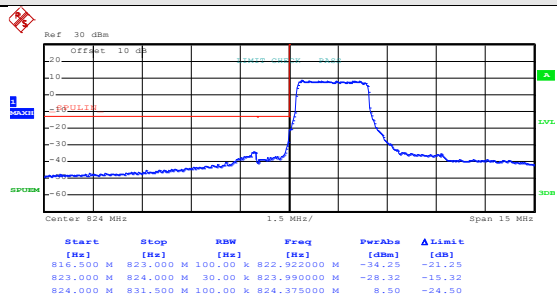


Date: 7.JUL.2016 10:19:07

Highest channel

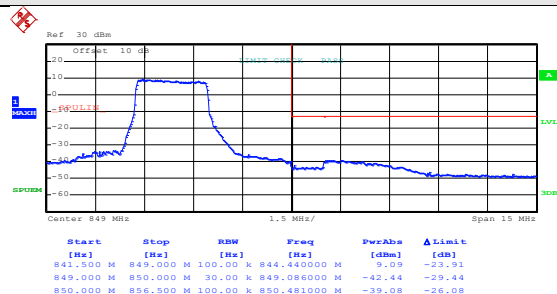
Test Mode:

LTE band 5(16QAM RB Size 12& RB Offset 0)



Date: 7.JUL.2016 10:06:59

Lowest channel

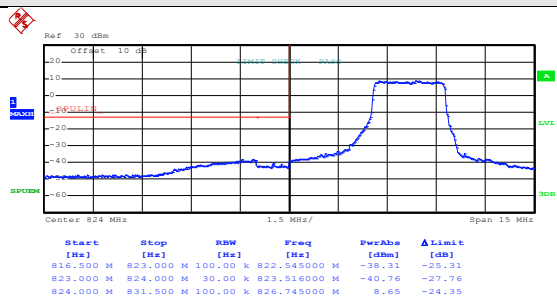


Date: 7.JUL.2016 10:20:48

Highest channel

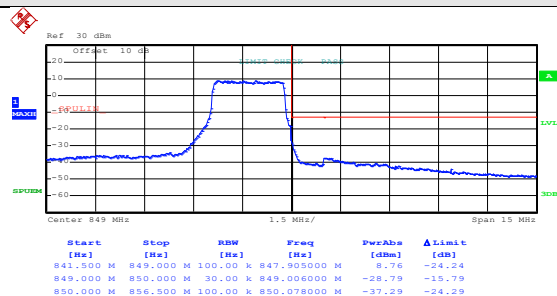
Test Mode:

LTE band 5(16QAM RB Size 12& RB Offset 11)



Date: 7.JUL.2016 10:14:43

Lowest channel

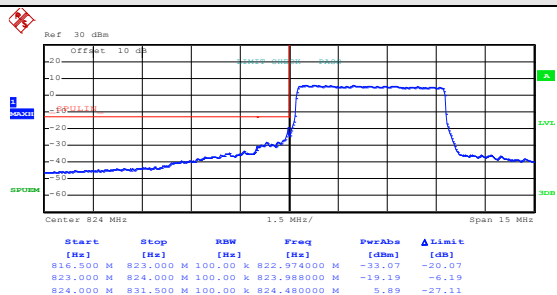


Date: 7.JUL.2016 10:21:07

Highest channel

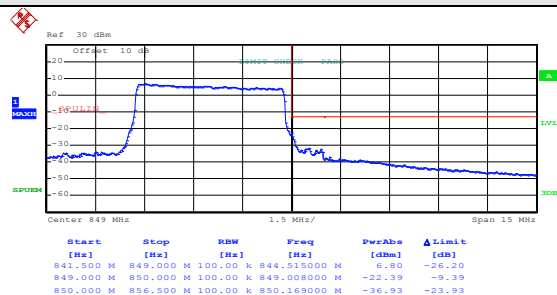
Test Mode:

LTE band 5(16QAM RB Size 25& RB Offset 0)



Date: 7.JUL.2016 10:17:34

Lowest channel



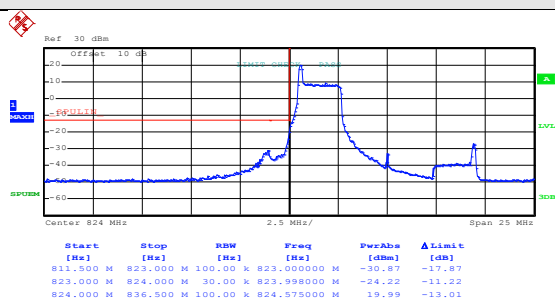
Date: 7.JUL.2016 10:22:11

Highest channel

10MHz:

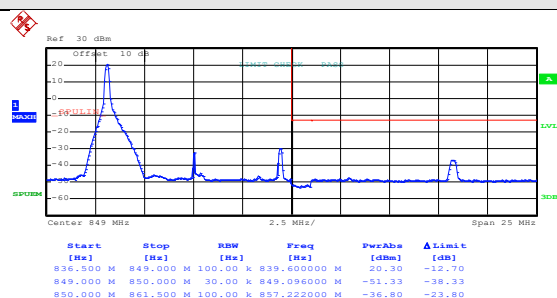
Test Mode:

LTE band 5(QPSK RB Size 1& RB Offset 0)



Date: 7.JUL.2016 10:26:28

Lowest channel

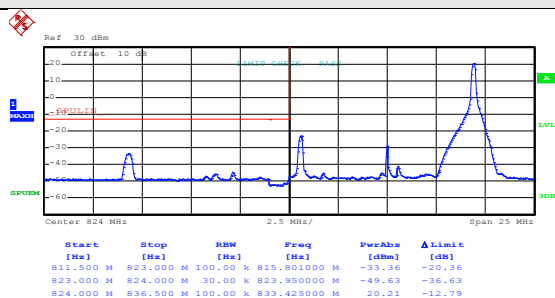


Date: 7.JUL.2016 10:34:07

Highest channel

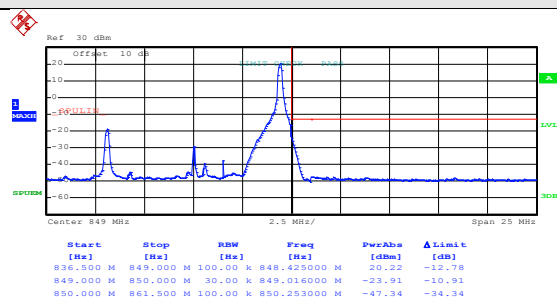
Test Mode:

LTE band 5(QPSK RB Size 1 & RB Offset 49)



Date: 7.JUL.2016 10:30:28

Lowest channel

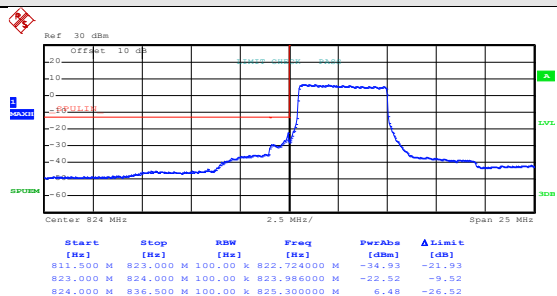


Date: 7.JUL.2016 10:34:48

Highest channel

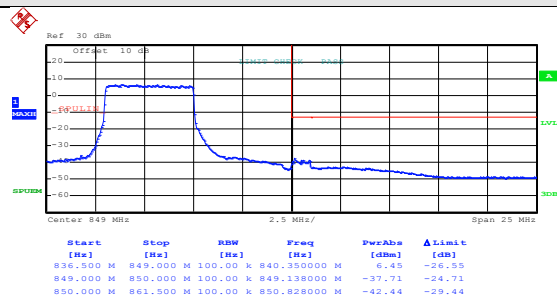
Test Mode:

LTE band 5(QPSK RB Size 25& RB Offset 0)



Date: 7.JUL.2016 10:31:08

Lowest channel

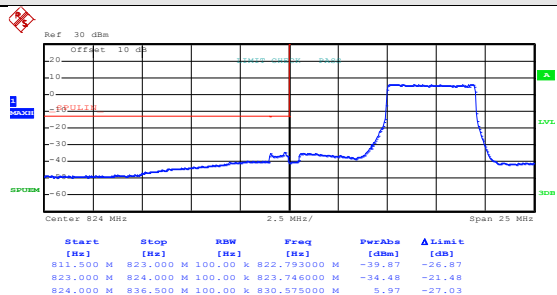


Date: 7.JUL.2016 10:35:25

Highest channel

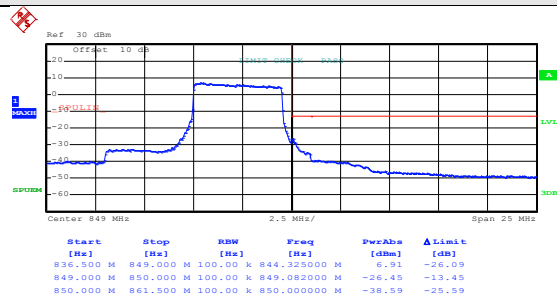
Test Mode:

LTE band 5(QPSK RB Size 25& RB Offset 24)



Date: 7.JUL.2016 10:31:55

Lowest channel

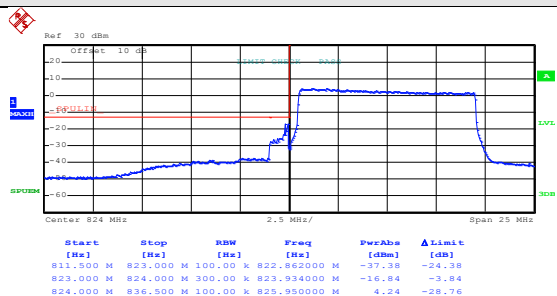


Date: 7.JUL.2016 10:36:19

Highest channel

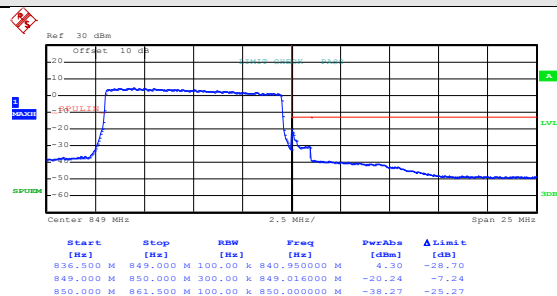
Test Mode:

LTE band 5(QPSK RB Size 50& RB Offset 0)



Date: 7.JUL.2016 10:33:02

Lowest channel

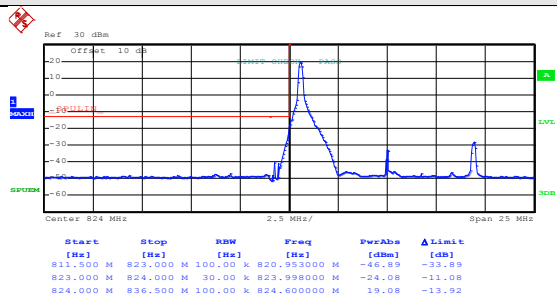


Date: 7.JUL.2016 11:27:41

Highest channel

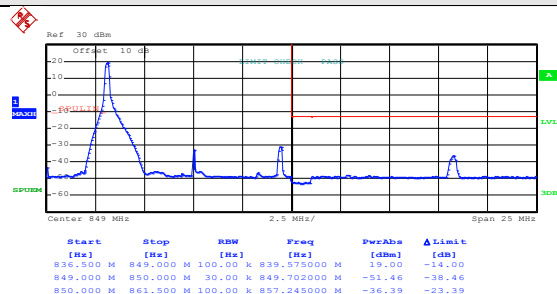
Test Mode:

LTE band 5(16QAM RB Size 1& RB Offset 0)



Date: 7.JUL.2016 10:29:51

Lowest channel

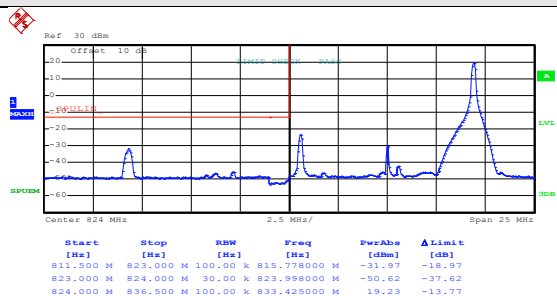


Date: 7.JUL.2016 10:34:23

Highest channel

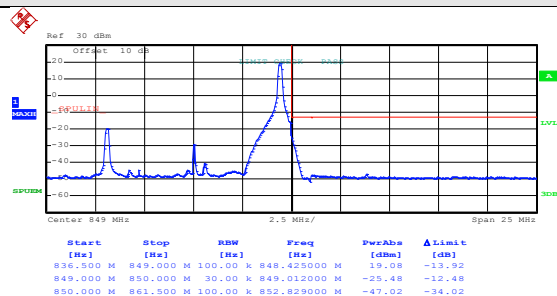
Test Mode:

LTE band 5(16QAM RB Size 1& RB Offset 49)



Date: 7.JUL.2016 10:30:06

Lowest channel

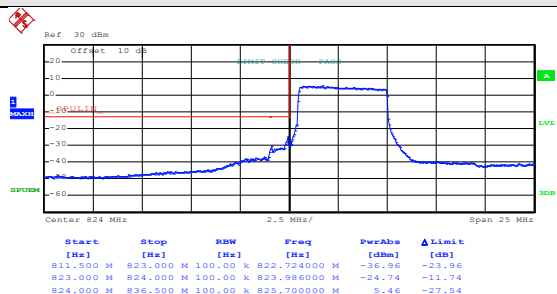


Date: 7.JUL.2016 10:34:37

Highest channel

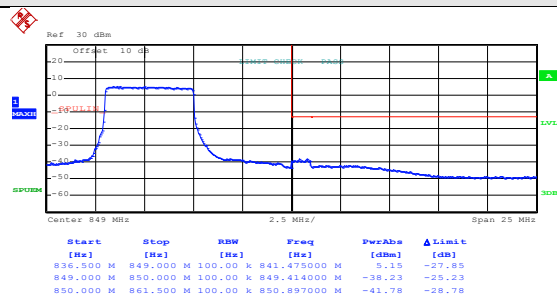
Test Mode:

LTE band 5(16QAM RB Size 25& RB Offset 0)



Date: 7.JUL.2016 10:31:21

Lowest channel

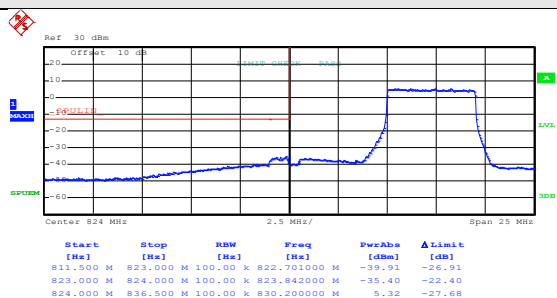


Date: 7.JUL.2016 10:35:39

Highest channel

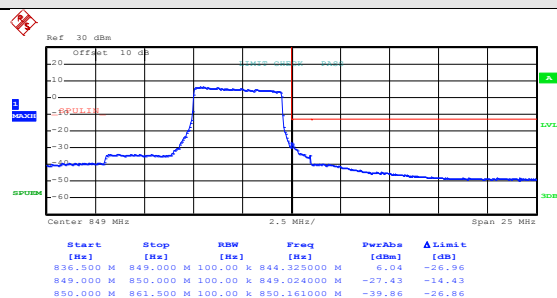
Test Mode:

LTE band 5(16QAM RB Size 25& RB Offset 24)



Date: 7.JUL.2016 10:31:34

Lowest channel

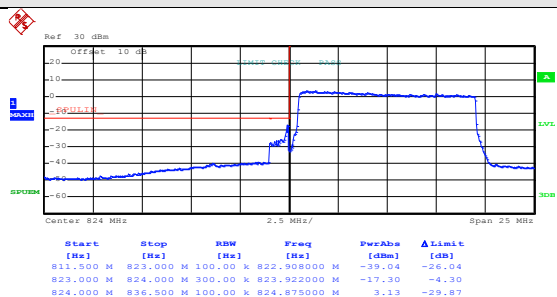


Date: 7.JUL.2016 10:36:03

Highest channel

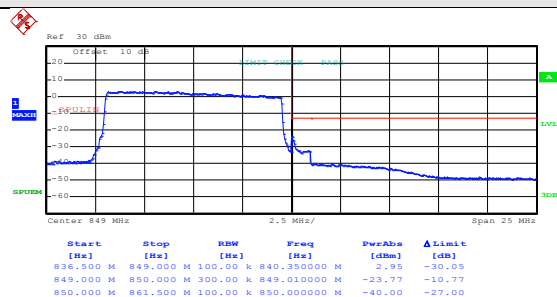
Test Mode:

LTE band 5(16QAM RB Size 50& RB Offset 0)



Date: 7.JUL.2016 10:33:16

Lowest channel



Date: 7.JUL.2016 11:27:53

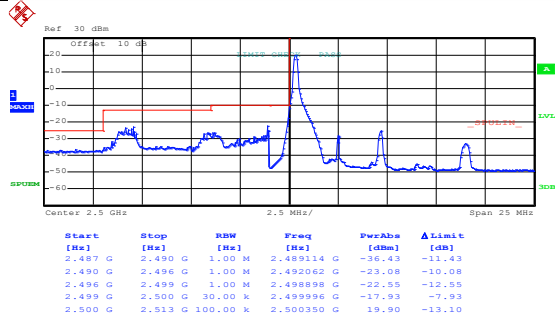
Highest channel

LTE band 7 part:

5MHz:

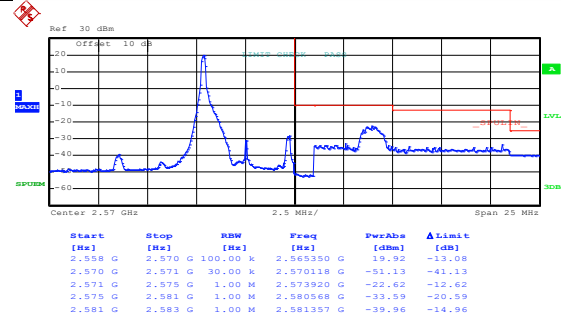
Test Mode:

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



Date: 7.JUL.2016 11:54:51

Lowest channel

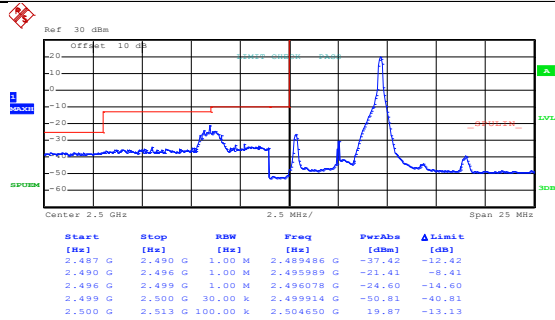


Date: 7.JUL.2016 11:59:54

Highest channel

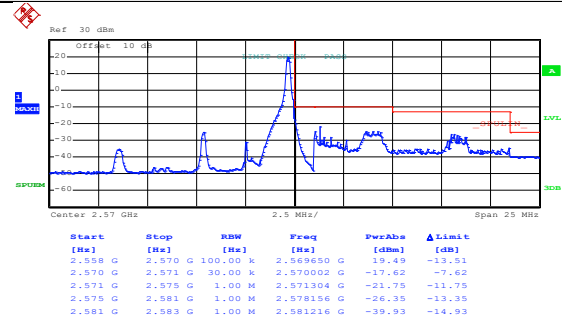
Test Mode:

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



Date: 7.JUL.2016 11:55:31

Lowest channel

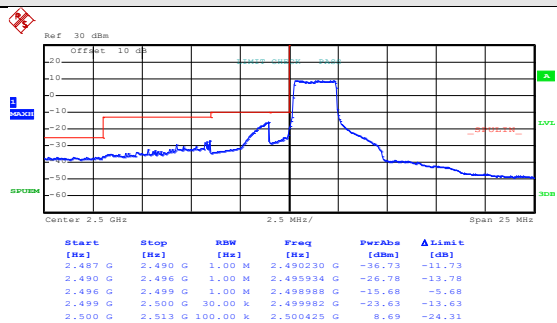


Date: 7.JUL.2016 12:00:36

Highest channel

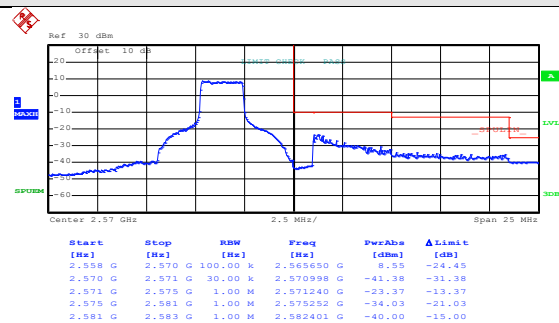
Test Mode:

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



Date: 7.JUL.2016 11:56:28

Lowest channel

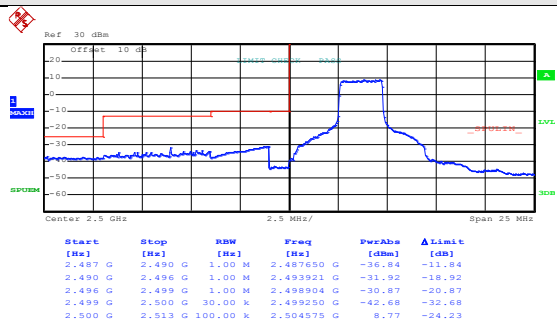


Date: 7.JUL.2016 12:00:52

Highest channel

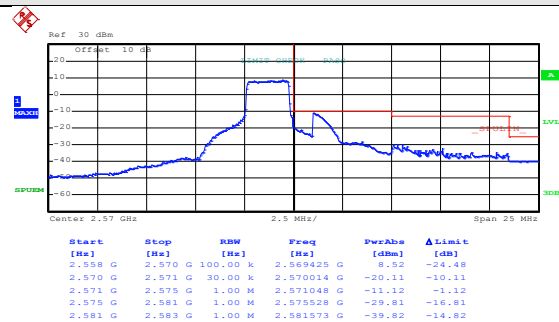
Test Mode:

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



Date: 7.JUL.2016 11:57:10

Lowest channel

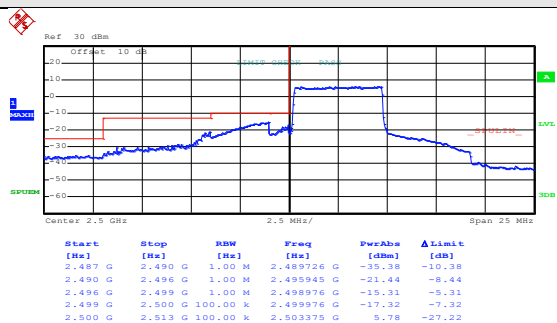


Date: 7.JUL.2016 12:01:51

Highest channel

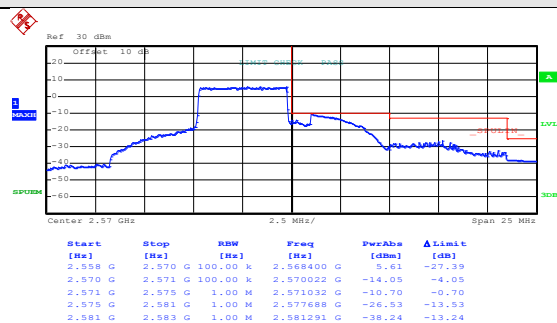
Test Mode:

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



Date: 7.JUL.2016 11:58:24

Lowest channel

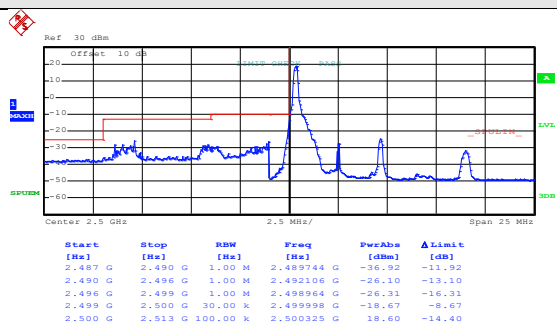


Date: 7.JUL.2016 12:02:17

Highest channel

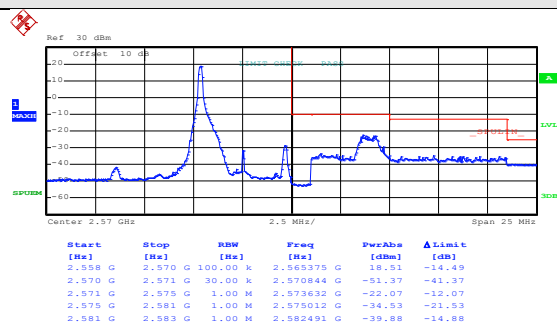
Test Mode:

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



Date: 7.JUL.2016 11:55:04

Lowest channel

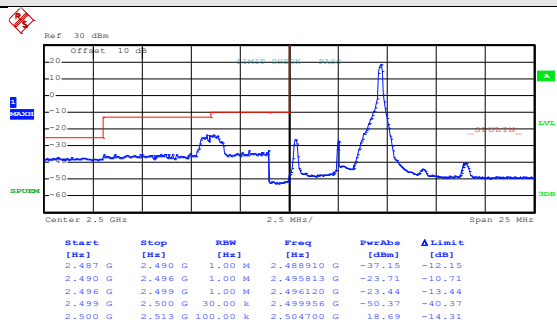


Date: 7.JUL.2016 12:00:05

Highest channel

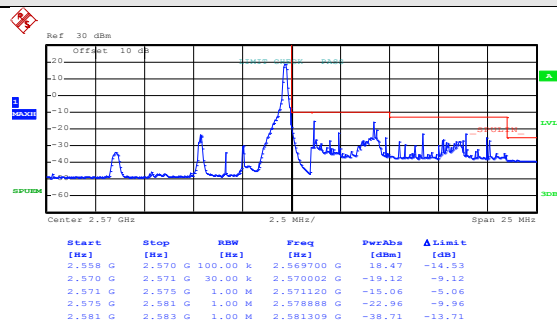
Test Mode:

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



Date: 7.JUL.2016 11:55:17

Lowest channel

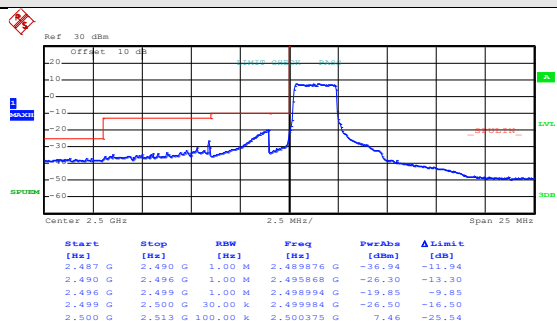


Date: 7.JUL.2016 12:00:24

Highest channel

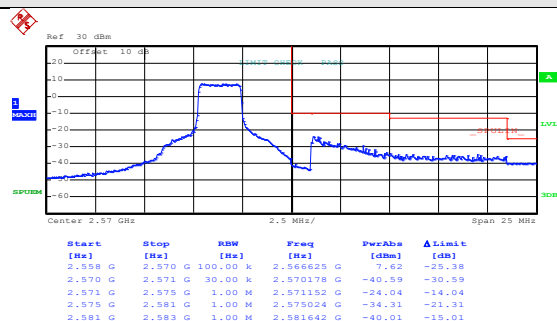
Test Mode:

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



Date: 7.JUL.2016 11:56:40

Lowest channel

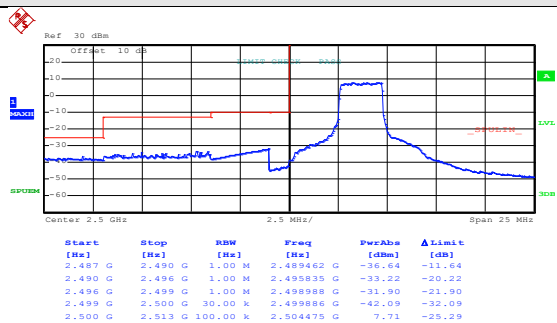


Date: 7.JUL.2016 12:01:06

Highest channel

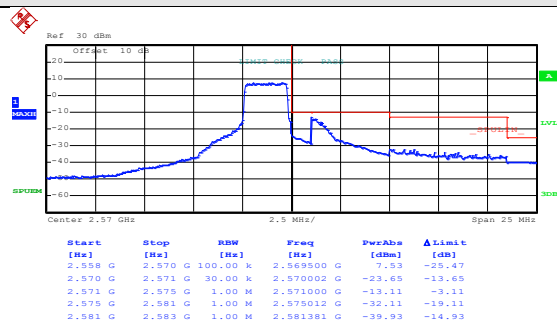
Test Mode:

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



Date: 7.JUL.2016 11:56:55

Lowest channel

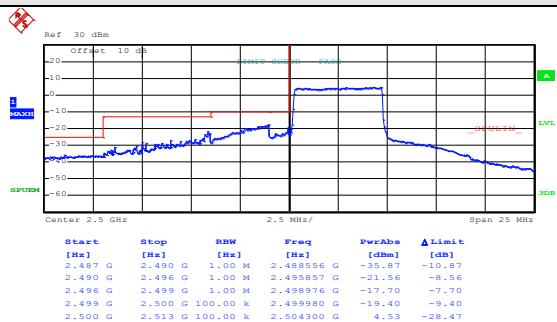


Date: 7.JUL.2016 12:01:39

Highest channel

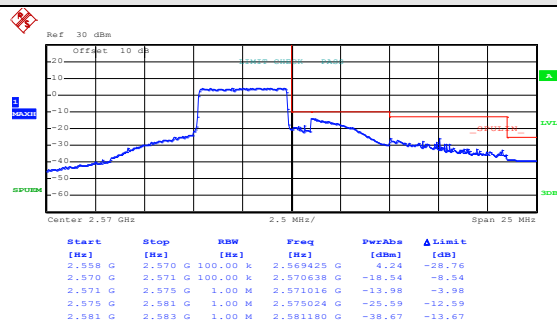
Test Mode:

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



Date: 7.JUL.2016 11:58:34

Lowest channel



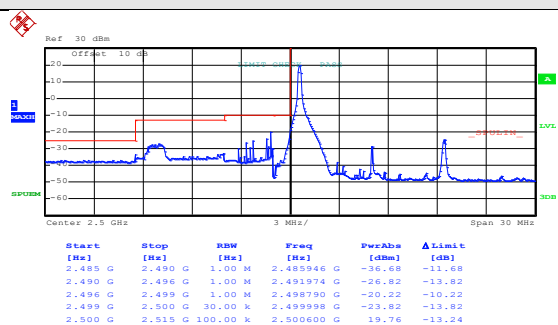
Date: 7.JUL.2016 12:02:27

Highest channel

10MHz:

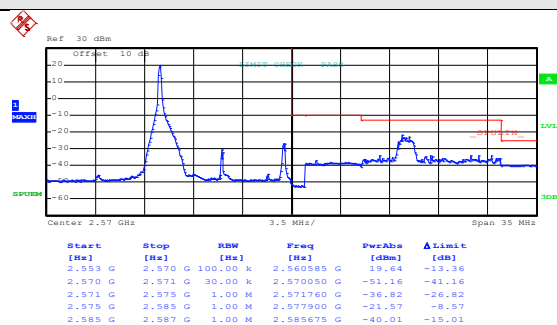
Test Mode:

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



Date: 7.JUL.2016 13:49:17

Lowest channel

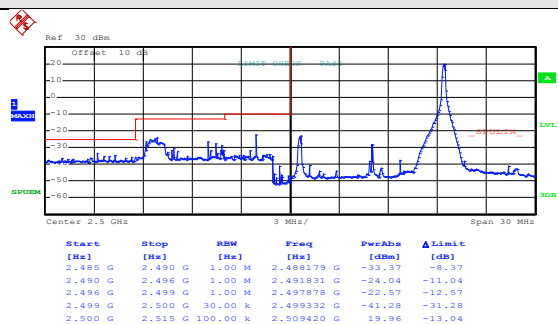


Date: 7.JUL.2016 13:53:50

Highest channel

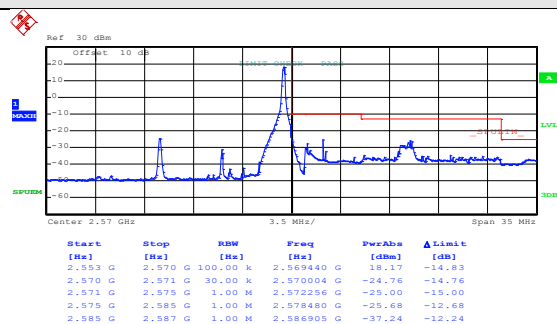
Test Mode:

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



Date: 7.JUL.2016 13:50:01

Lowest channel

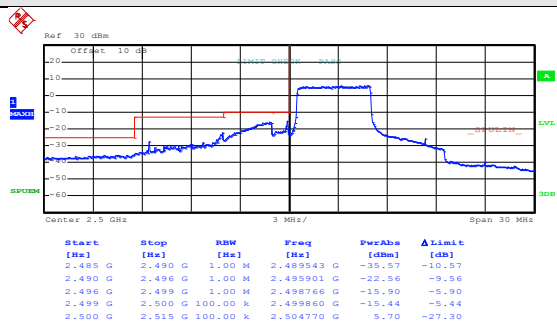


Date: 7.JUL.2016 13:54:10

Highest channel

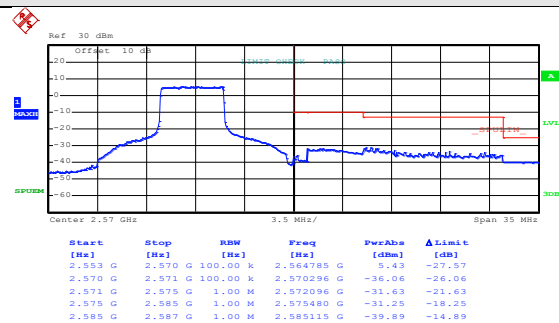
Test Mode:

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



Date: 7.JUL.2016 13:50:38

Lowest channel

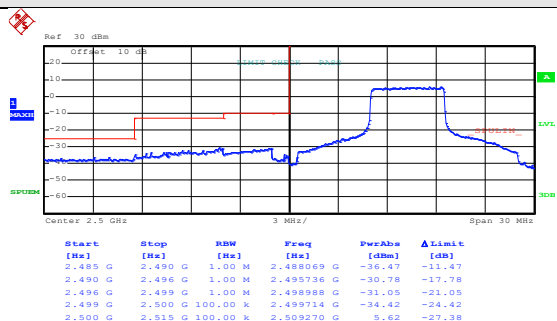


Date: 7.JUL.2016 13:55:15

Highest channel

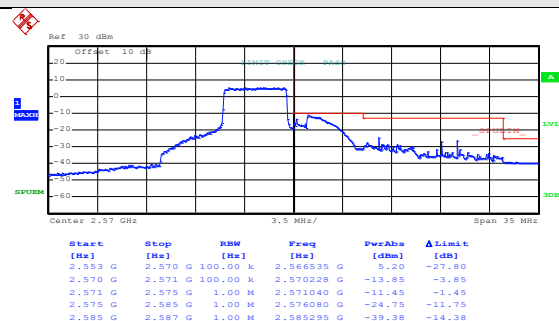
Test Mode:

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



Date: 7.JUL.2016 13:51:18

Lowest channel

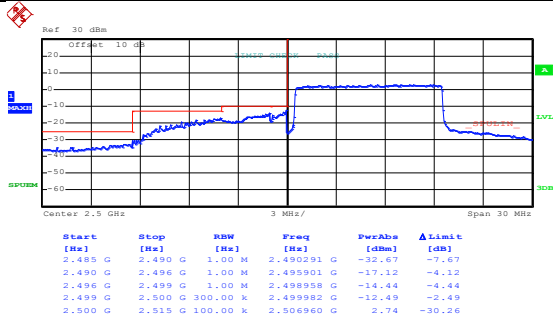


Date: 7.JUL.2016 13:56:21

Highest channel

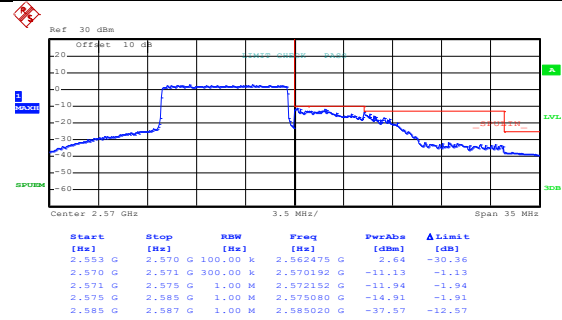
Test Mode:

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



Date: 7.JUL.2016 13:51:45

Lowest channel

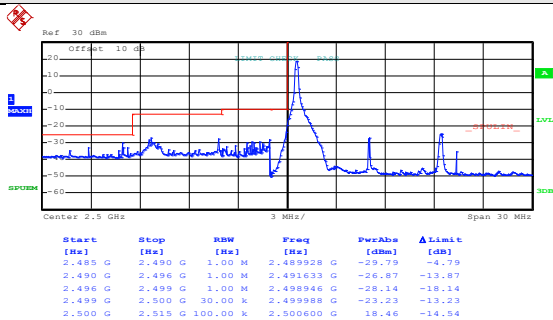


Date: 7.JUL.2016 13:56:52

Highest channel

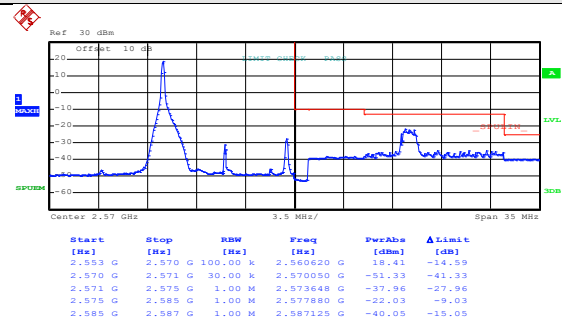
Test Mode:

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



Date: 7.JUL.2016 13:49:37

Lowest channel

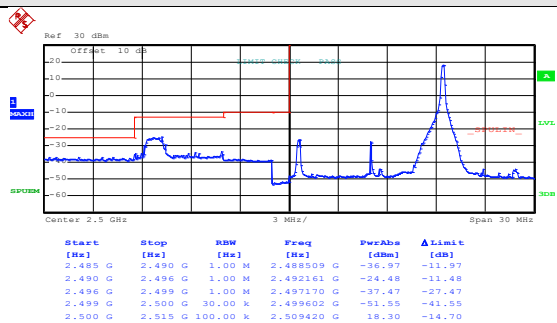


Date: 7.JUL.2016 13:53:34

Highest channel

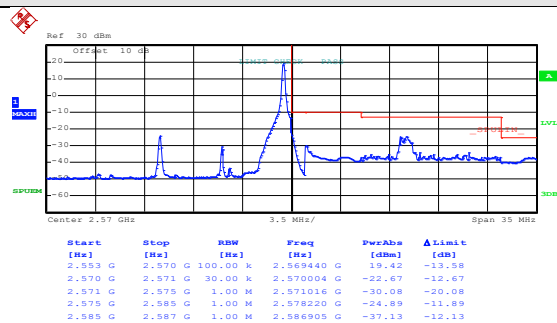
Test Mode:

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



Date: 7.JUL.2016 13:49:50

Lowest channel

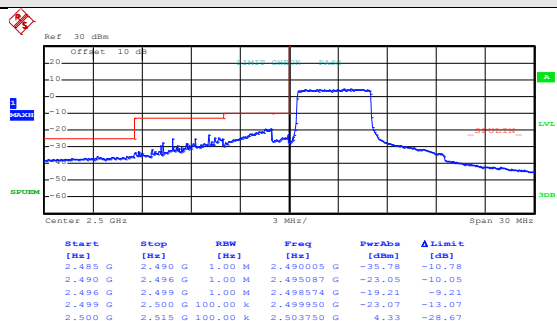


Date: 7.JUL.2016 13:54:20

Highest channel

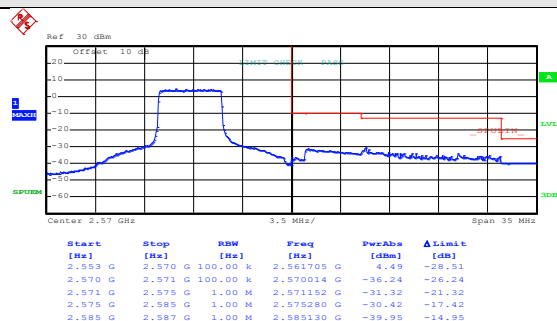
Test Mode:

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



Date: 7.JUL.2016 13:50:53

Lowest channel

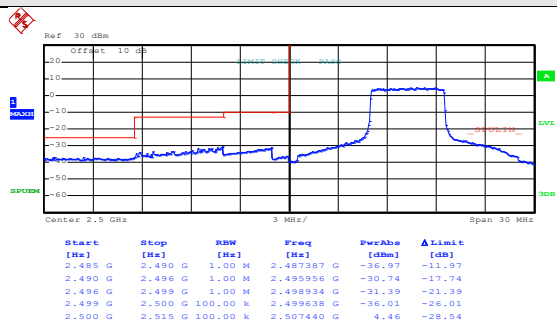


Date: 7.JUL.2016 13:55:33

Highest channel

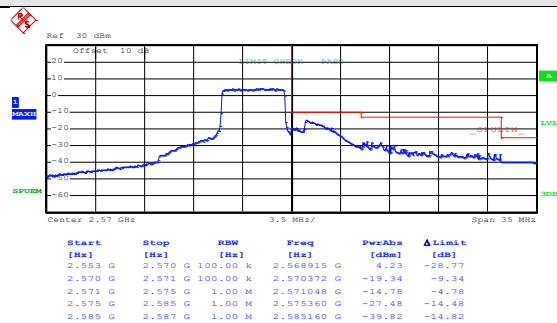
Test Mode:

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



Date: 7.JUL.2016 13:51:04

Lowest channel

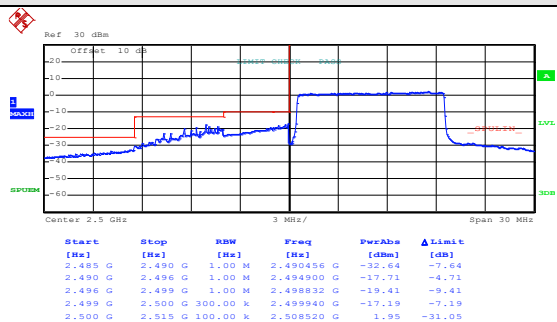


Date: 7.JUL.2016 13:55:48

Highest channel

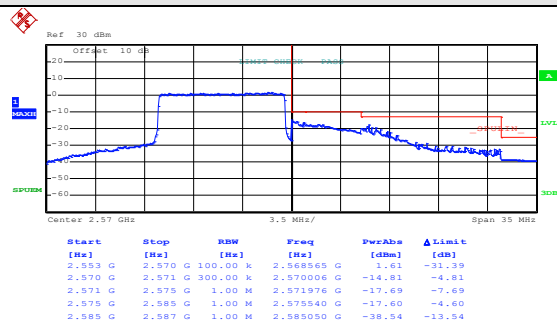
Test Mode:

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



Date: 7.JUL.2016 13:51:58

Lowest channel



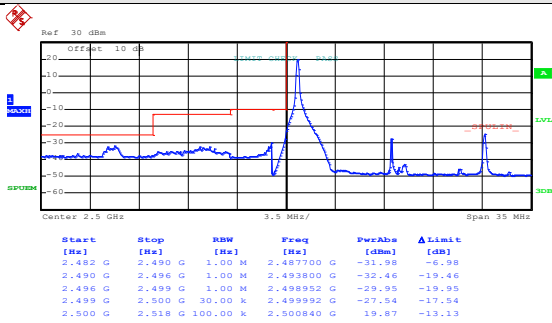
Date: 7.JUL.2016 13:57:06

Highest channel

15MHz:

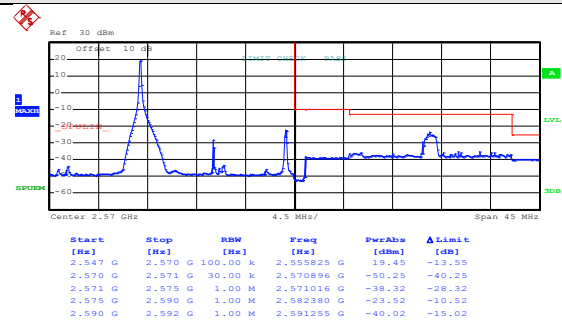
Test Mode:

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



Date: 7.JUL.2016 14:01:24

Lowest channel

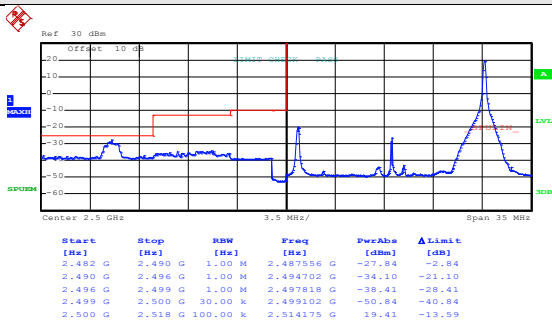


Date: 7.JUL.2016 14:24:40

Highest channel

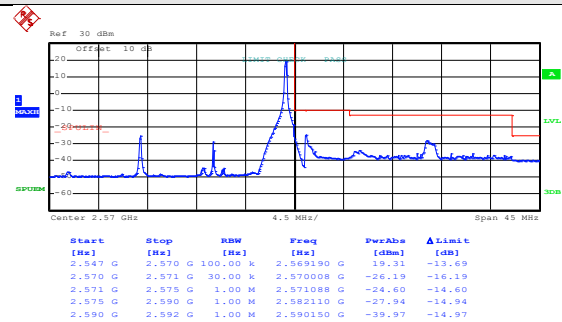
Test Mode:

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



Date: 7.JUL.2016 14:01:10

Lowest channel

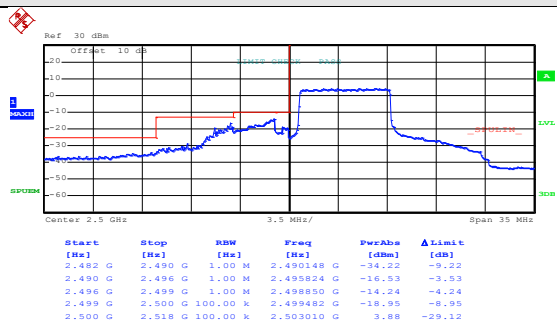


Date: 7.JUL.2016 14:25:21

Highest channel

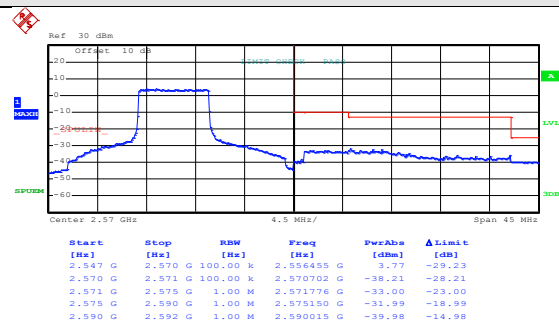
Test Mode:

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



Date: 7.JUL.2016 14:02:48

Lowest channel

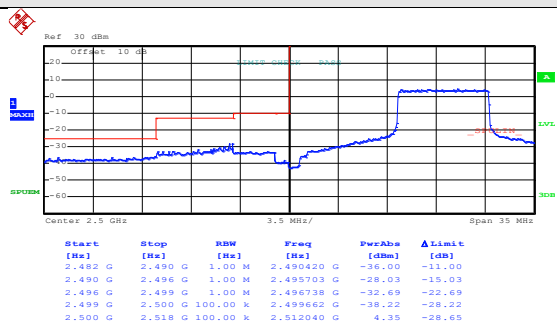


Date: 7.JUL.2016 14:26:33

Highest channel

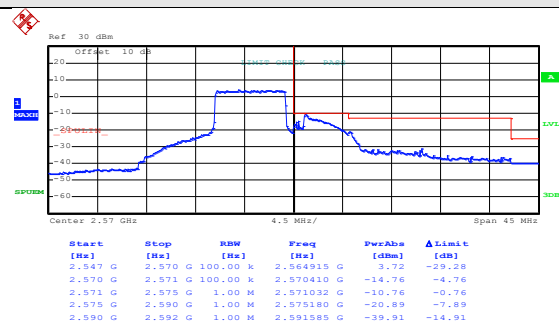
Test Mode:

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



Date: 7.JUL.2016 14:03:32

Lowest channel

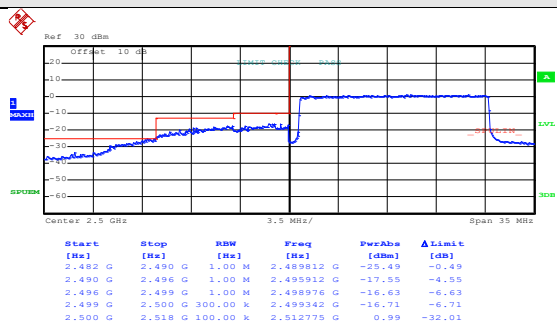


Date: 7.JUL.2016 14:27:41

Highest channel

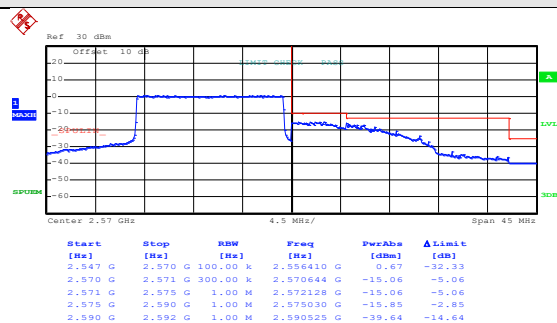
Test Mode:

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



Date: 7.JUL.2016 14:04:09

Lowest channel

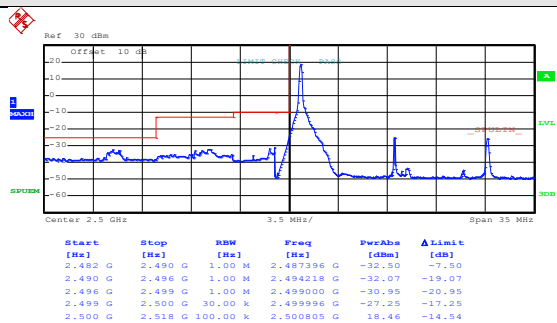


Date: 7.JUL.2016 14:28:16

Highest channel

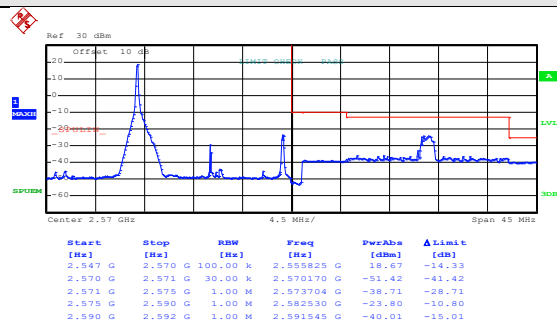
Test Mode:

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



Date: 7.JUL.2016 14:01:38

Lowest channel

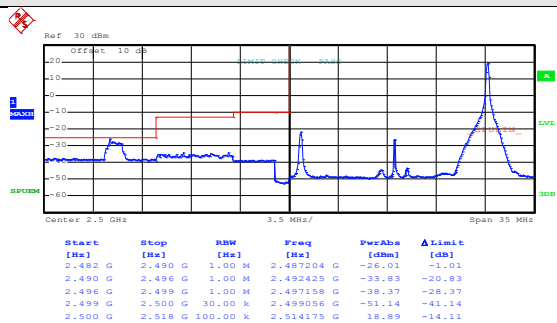


Date: 7.JUL.2016 14:24:53

Highest channel

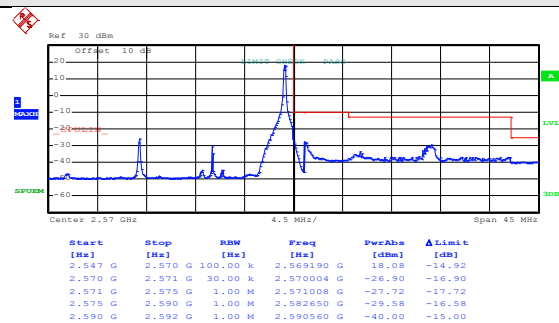
Test Mode:

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



Date: 7.JUL.2016 14:00:59

Lowest channel

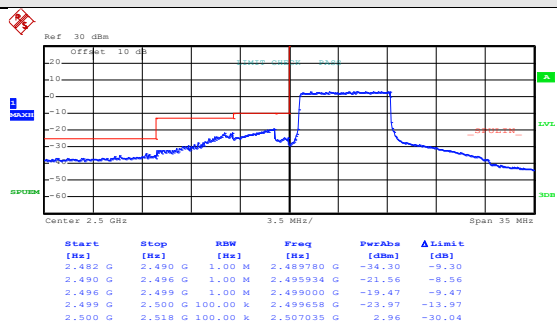


Date: 7.JUL.2016 14:25:07

Highest channel

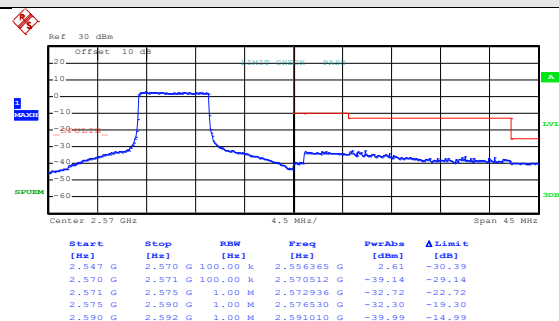
Test Mode:

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



Date: 7.JUL.2016 14:03:00

Lowest channel

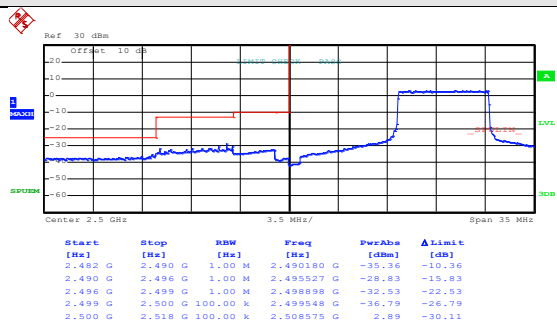


Date: 7.JUL.2016 14:26:46

Highest channel

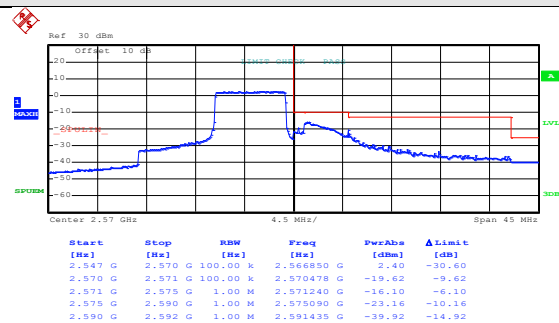
Test Mode:

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



Date: 7.JUL.2016 14:03:17

Lowest channel

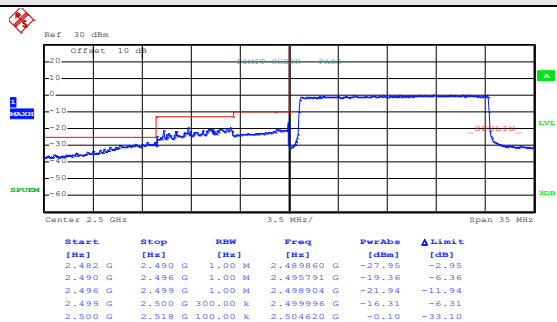


Date: 7.JUL.2016 14:27:06

Highest channel

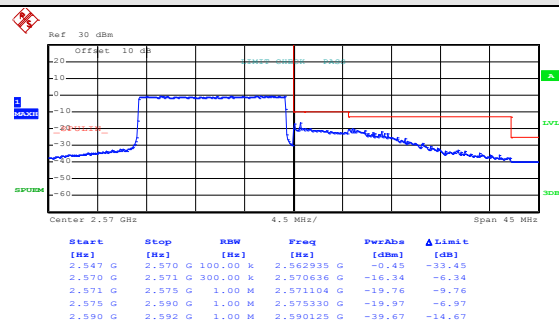
Test Mode:

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



Date: 7.JUL.2016 14:04:21

Lowest channel



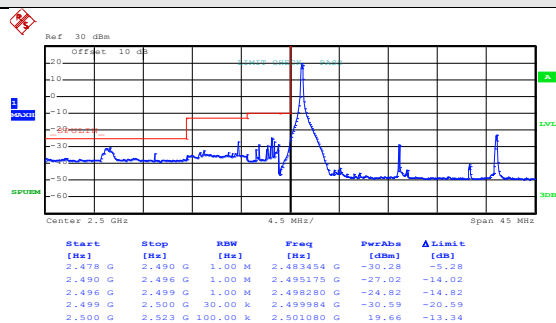
Date: 7.JUL.2016 14:28:28

Highest channel

20MHz:

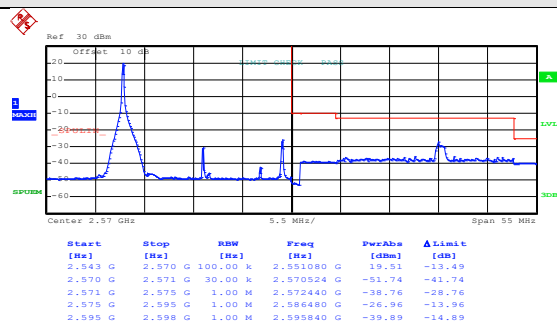
Test Mode:

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



Date: 7.JUL.2016 14:39:07

Lowest channel

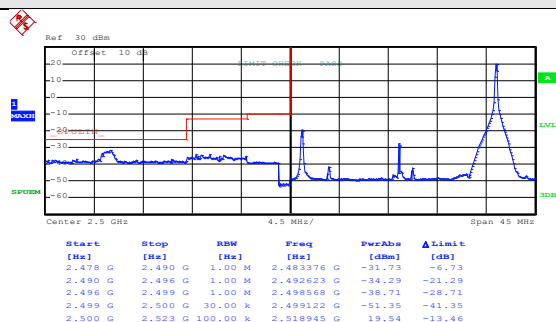


Date: 7.JUL.2016 14:45:08

Highest channel

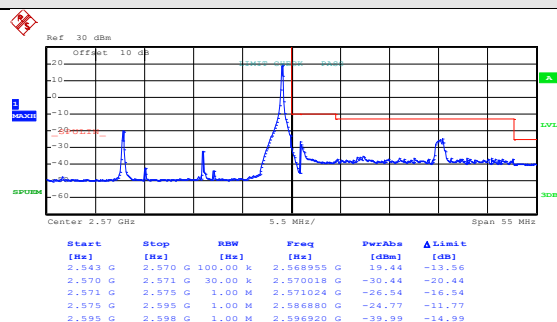
Test Mode:

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



Date: 7.JUL.2016 14:39:58

Lowest channel

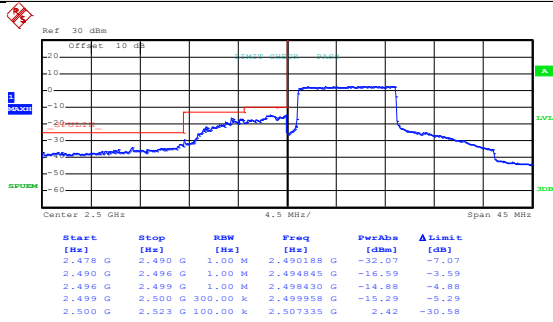


Date: 7.JUL.2016 14:45:52

Highest channel

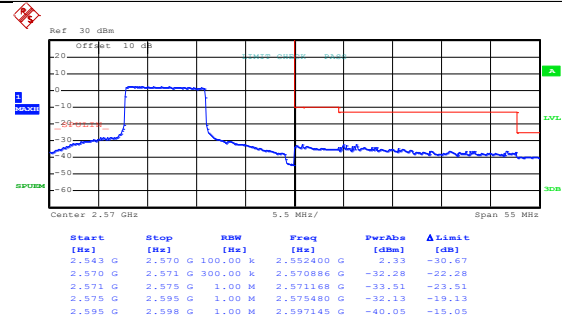
Test Mode:

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



Date: 7.JUL.2016 14:40:33

Lowest channel

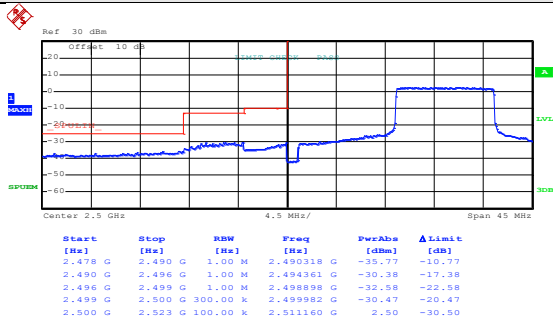


Date: 7.JUL.2016 14:48:46

Highest channel

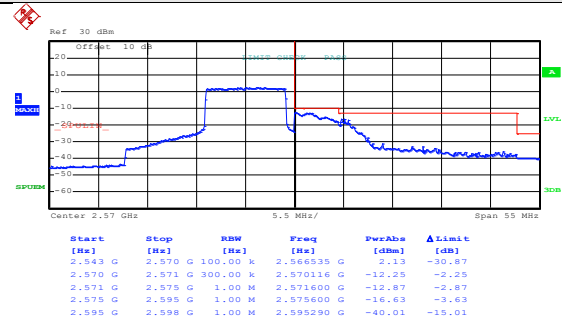
Test Mode:

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



Date: 7.JUL.2016 14:41:18

Lowest channel

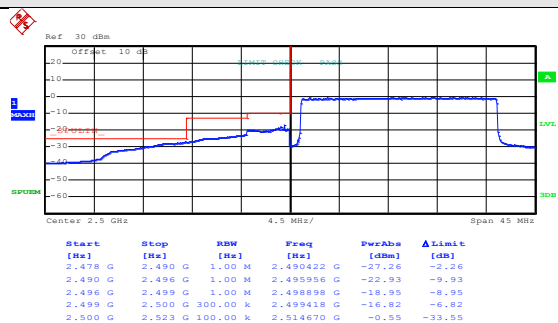


Date: 7.JUL.2016 14:49:32

Highest channel

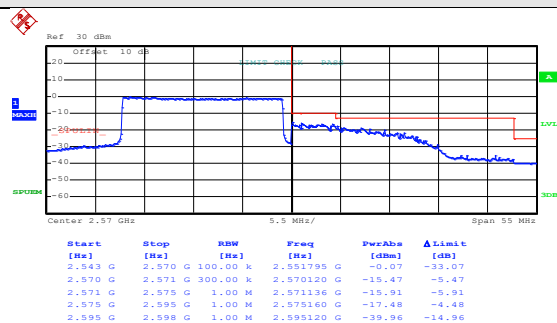
Test Mode:

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



Date: 7.JUL.2016 14:43:45

Lowest channel

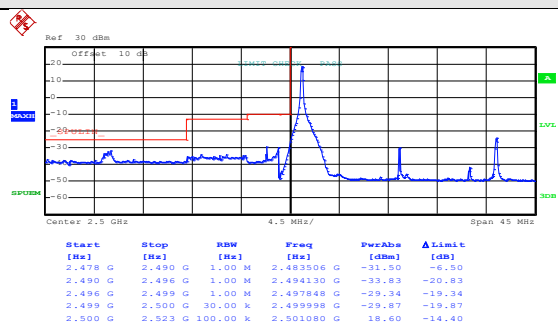


Date: 7.JUL.2016 14:50:04

Highest channel

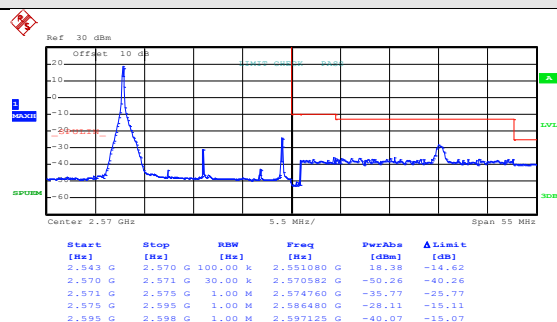
Test Mode:

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



Date: 7.JUL.2016 14:39:27

Lowest channel

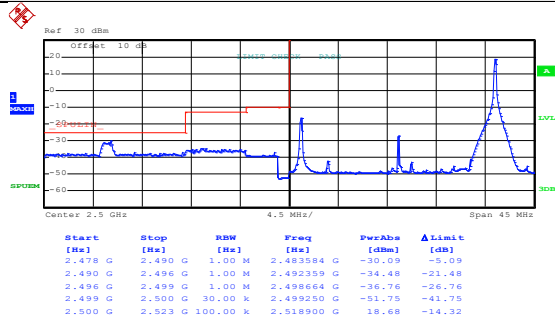


Date: 7.JUL.2016 14:45:22

Highest channel

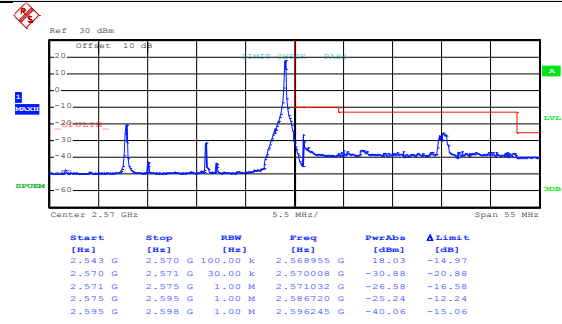
Test Mode:

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



Date: 7.JUL.2016 14:39:46

Lowest channel

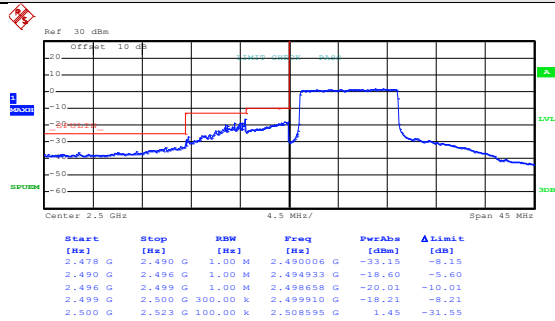


Date: 7.JUL.2016 14:45:38

Highest channel

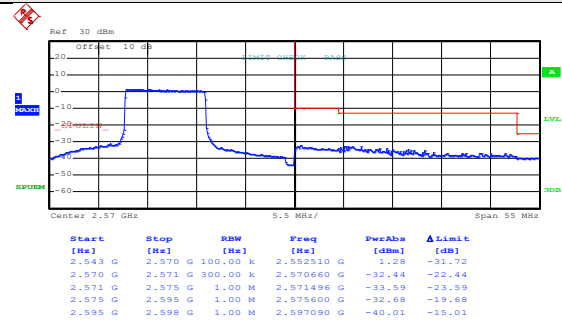
Test Mode:

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



Date: 7.JUL.2016 14:40:49

Lowest channel

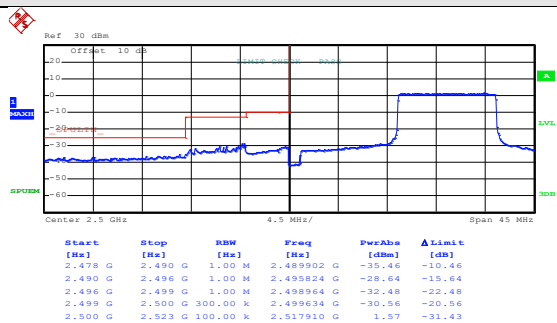


Date: 7.JUL.2016 14:49:00

Highest channel

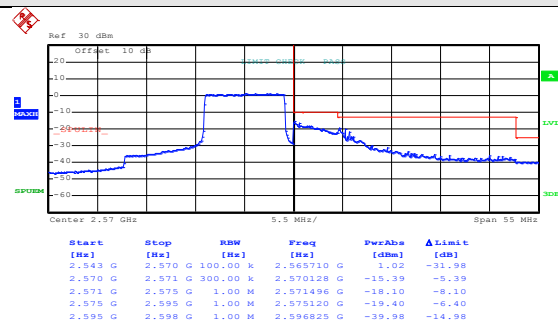
Test Mode:

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



Date: 7.JUL.2016 14:41:03

Lowest channel

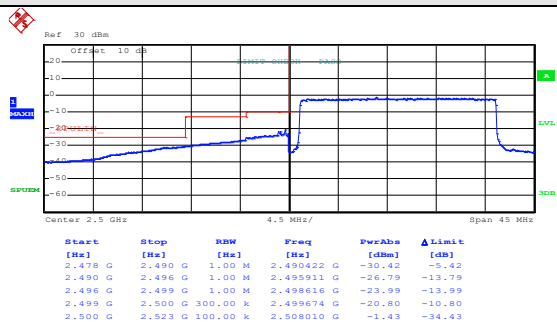


Date: 7.JUL.2016 14:49:12

Highest channel

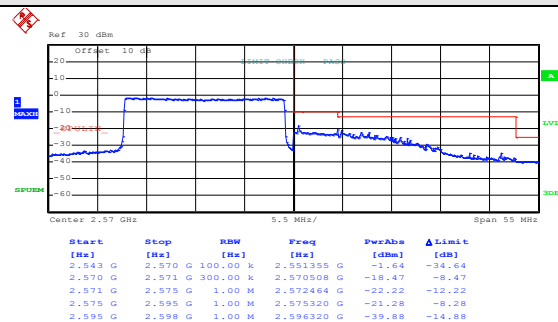
Test Mode:

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



Date: 7.JUL.2016 14:43:59

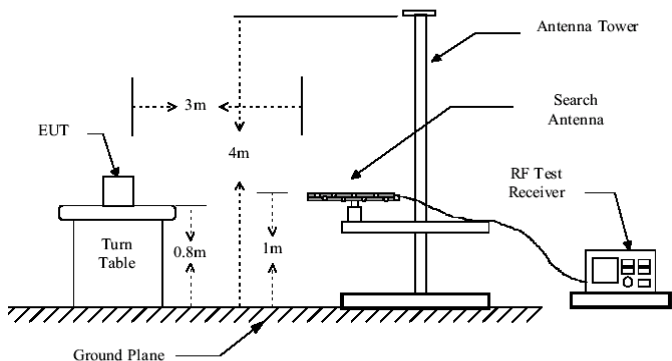
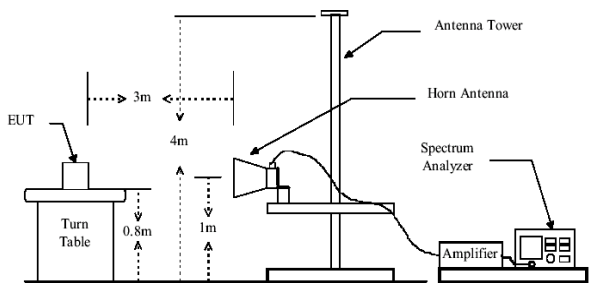
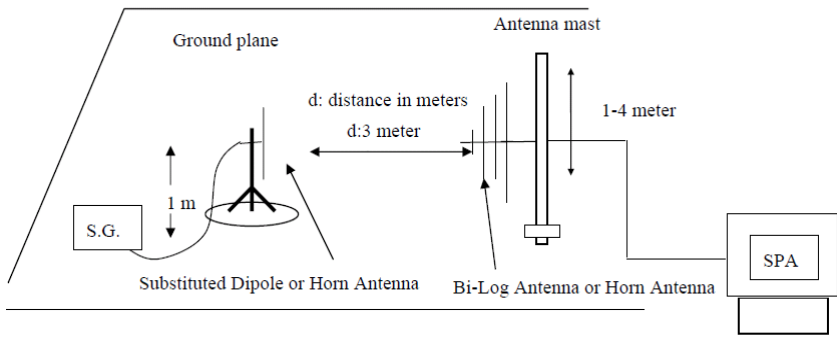
Lowest channel



Date: 7.JUL.2016 14:50:18

Highest channel

6.10 ERP, EIRP Measurement

Test Requirement:	FCC part 22.913 (a), part 27.50(d), part 27.50 (h)
Test Method:	FCC part 2.1046
Limit:	LTE Band 4: 1W EIRP LTE Band 5: 7W ERP LTE Band 7: 2W EIRP
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

Test Procedure:	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. 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. 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: $\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$ 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: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$ 5. The worse case was relating to the conducted output power.
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):

LTE band 4 part

Lowest channel

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	23.35	30.00	Pass
					H	22.07		
1710.70	19957	16QAM	1.4	H	V	22.97		
					H	21.49		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	22.82	30.00	Pass
					H	21.99		
1710.70	19957	16QAM	1.4	H	V	22.56		
					H	21.41		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.73	30.00	Pass
					H	20.58		
1710.70	19957	16QAM	1.4	H	V	21.66		
					H	20.47		

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)								
1732.50	20175	QPSK	1.4	H	V	23.23	30.00	Pass
					H	22.18		
1732.50	20175	16QAM	1.4	H	V	23.03		
					H	22.25		
1.4MHz(RB size 3 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	23.03	30.00	Pass
					H	22.54		
1732.50	20175	16QAM	1.4	H	V	23.03		
					H	22.26		
1.4MHz(RB size 6 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	22.26	30.00	Pass
					H	21.13		
1732.50	20175	16QAM	1.4	H	V	21.54		
					H	21.03		

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	23.14	30.00	Pass
					H	22.03		
1754.30	20393	16QAM	1.4	H	V	22.58		
					H	22.66		
1.4MHz(RB size 3 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	22.95	30.00	Pass
					H	22.36		
1754.30	20393	16QAM	1.4	H	V	23.11		
					H	22.43		
1.4MHz(RB size 6 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	22.26	30.00	Pass
					H	22.03		
1754.30	20393	16QAM	1.4	H	V	21.73		
					H	21.25		

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	23.52	30.00	Pass
					H	22.38		
1720.00	20050	16QAM	20	H	V	23.71		
					H	22.42		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	22.40	30.00	Pass
					H	21.62		
1720.00	20050	16QAM	20	H	V	22.91		
					H	21.84		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	19.70	30.00	Pass
					H	19.61		
1720.00	20050	16QAM	20	H	V	20.26		
					H	19.64		

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	23.47	30.00	Pass
					H	22.54		
1732.50	20175	16QAM	20	H	V	23.29		
					H	22.36		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	22.34	30.00	Pass
					H	21.13		
1732.50	20175	16QAM	20	H	V	22.46		
					H	21.63		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	19.36	30.00	Pass
					H	19.75		
1732.50	20175	16QAM	20	H	V	20.12		
					H	19.34		

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	23.41	30.00	Pass
					H	22.64		
1745.00	20300	16QAM	20	H	V	23.12		
					H	23.03		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	22.71	30.00	Pass
					H	22.03		
1745.00	20300	16QAM	20	H	V	22.61		
					H	21.84		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	20.02	30.00	Pass
					H	19.62		
1745.00	20300	16QAM	20	H	V	20.04		
					H	19.81		

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	28.70	38.45	Pass
					H	24.29		
824.70	20407	16QAM	1.4	H	V	28.42		
					H	24.54		
1.4MHz(RB size 3& RB offset 0)								
824.70	20407	QPSK	1.4	H	V	28.37	38.45	Pass
					H	23.98		
824.70	20407	16QAM	1.4	H	V	28.20		
					H	24.18		
1.4MHz(RB size 6& RB offset 0)								
824.70	20407	QPSK	1.4	H	V	27.83	38.45	Pass
					H	23.51		
824.70	20407	16QAM	1.4	H	V	27.89		
					H	23.70		

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	28.81	38.45	Pass
					H	24.43		
836.50	20525	16QAM	1.4	H	V	28.51		
					H	25.03		
1.4MHz(RB size 3& RB offset 0)								
836.50	20525	QPSK	1.4	H	V	28.42	38.45	Pass
					H	23.61		
836.50	20525	16QAM	1.4	H	V	28.37		
					H	25.01		
1.4MHz(RB size 6& RB offset 0)								
836.50	20525	QPSK	1.4	H	V	28.12	38.45	Pass
					H	23.67		
836.50	20525	16QAM	1.4	H	V	27.91		
					H	24.03		

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	28.71	38.45	Pass
					H	24.33		
848.30	20643	16QAM	1.4	H	V	28.24		
					H	24.46		
1.4MHz(RB size 3& RB offset 0)								
848.30	20643	QPSK	1.4	H	V	28.36	38.45	Pass
					H	23.48		
848.30	20643	16QAM	1.4	H	V	28.24		
					H	25.12		
1.4MHz(RB size 6& RB offset 0)								
848.30	20643	QPSK	1.4	H	V	28.02	38.45	Pass
					H	24.13		
848.30	20643	16QAM	1.4	H	V	27.88		
					H	24.11		

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	30.36	38.45	Pass
					H	23.52		
829.00	20450	16QAM	10	H	V	30.33		
					H	23.25		
10MHz(RB size 25& RB offset 0)								
829.00	20450	QPSK	10	H	V	29.66	38.45	Pass
					H	23.15		
829.00	20450	16QAM	10	H	V	29.64		
					H	23.15		
10MHz(RB size 50& RB offset 0)								
829.00	20450	QPSK	10	H	V	28.34	38.45	Pass
					H	22.18		
829.00	20450	16QAM	10	H	V	28.53		
					H	22.20		

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	29.24	38.45	Pass
					H	22.81		
836.50	20525	16QAM	10	H	V	30.13		
					H	23.42		
10MHz(RB size 25& RB offset 0)								
836.50	20525	QPSK	10	H	V	29.52	38.45	Pass
					H	24.03		
836.50	20525	16QAM	10	H	V	29.73		
					H	24.13		
10MHz(RB size 50 & RB offset 0)								
836.50	20525	QPSK	10	H	V	29.03	38.45	Pass
					H	23.12		
836.50	20525	16QAM	10	H	V	29.72		
					H	23.02		

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	29.75	38.45	Pass
					H	23.36		
844.00	20600	16QAM	10	H	V	29.86		
					H	23.55		
10MHz(RB size 25& RB offset 0)								
844.00	20600	QPSK	10	H	V	30.02	38.45	Pass
					H	25.16		
844.00	20600	16QAM	10	H	V	30.71		
					H	24.43		
10MHz(RB size 50 & RB offset 0)								
844.00	20600	QPSK	10	H	V	29.73	38.45	Pass
					H	23.17		
844.00	20600	16QAM	10	H	V	30.01		
					H	23.25		

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	13.40	33.00	Pass
					H	15.17		
2502.50	20775	16QAM	5	H	V	11.88		
					H	14.42		
5MHz(RB size 12 & RB offset 0)								
2502.50	20775	QPSK	5	H	V	13.49	33.00	Pass
					H	15.26		
2502.50	20775	16QAM	5	H	V	12.99		
					H	14.78		
5MHz(RB size 25 & RB offset 0)								
2502.50	20775	QPSK	5	H	V	12.78	33.00	Pass
					H	14.59		
2502.50	20775	16QAM	5	H	V	13.41		
					H	14.78		

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	13.42	33.00	Pass
					H	15.25		
2535.00	21100	16QAM	5	H	V	11.91		
					H	14.39		
5MHz(RB size 12 & RB offset 0)								
2535.00	21100	QPSK	5	H	V	13.51	33.00	Pass
					H	15.33		
2535.00	21100	16QAM	5	H	V	13.02		
					H	14.81		
5MHz(RB size 25 & RB offset 0)								
2535.00	21100	QPSK	5	H	V	12.36	33.00	Pass
					H	14.63		
2535.00	21100	16QAM	5	H	V	13.52		
					H	15.02		

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	13.71	33.00	Pass
					H	15.36		
2567.50	21425	16QAM	5	H	V	12.24		
					H	15.02		
5MHz(RB size 12 & RB offset 0)								
2567.50	21425	QPSK	5	H	V	14.03	33.00	Pass
					H	15.42		
2567.50	21425	16QAM	5	H	V	13.26		
					H	14.74		
5MHz(RB size 25 & RB offset 0)								
2567.50	21425	QPSK	5	H	V	13.02	33.00	Pass
					H	15.12		
2567.50	21425	16QAM	5	H	V	13.69		
					H	14.72		

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	13.26	33.00	Pass
					H	15.10		
2510.00	20850	16QAM	20	H	V	12.28		
					H	14.66		
20MHz(RB size 50 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	12.28	33.00	Pass
					H	14.54		
2510.00	20850	16QAM	20	H	V	12.03		
					H	14.55		
20MHz(RB size 100 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	10.91	33.00	Pass
					H	12.01		
2510.00	20850	16QAM	20	H	V	10.71		
					H	12.05		

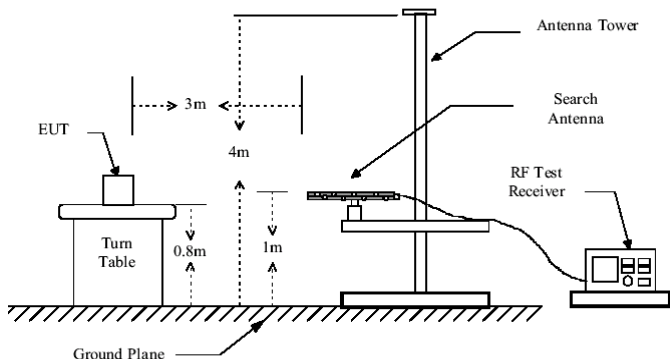
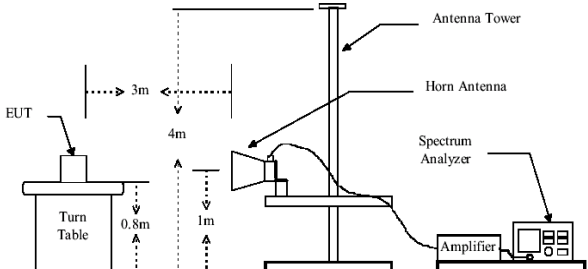
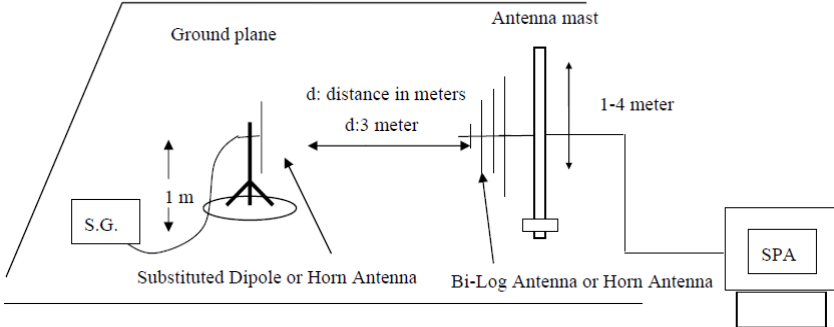
Middle channel

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	13.13	33.00	Pass
					H	15.08		
2535.00	21100	16QAM	20	H	V	12.59		
					H	14.73		
20MHz(RB size 50 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	12.38	33.00	Pass
					H	14.63		
2535.00	21100	16QAM	20	H	V	12.38		
					H	14.84		
20MHz(RB size 100 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	11.02	33.00	Pass
					H	12.32		
2535.00	21100	16QAM	20	H	V	10.69		
					H	12.05		

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	13.25	33.00	Pass
					H	15.28		
2560.00	21350	16QAM	20	H	V	12.61		
					H	14.63		
20MHz(RB size 50 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	12.84	33.00	Pass
					H	14.51		
2560.00	21350	16QAM	20	H	V	12.43		
					H	14.52		
20MHz(RB size 100 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	12.14	33.00	Pass
					H	12.43		
2560.00	21350	16QAM	20	H	V	10.71		
					H	12.35		

6.11 Field strength of spurious radiation measurement

Test Requirement:	FCC Part 22.917(a), Part 27.53(m), Part 27.53(h)
Test Method:	FCC part2.1053
Limit:	LTE Band 4, LTE Band 5: -13dBm, LTE Band 7: -25dBm
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 
Test Procedure:	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. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 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. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data (worst case):

Below 1GHz:

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

Above 1GHz

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

LTE Band 4 Part:

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

1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3421.40	Vertical	-47.48	-13.00	Pass
5132.10	V	-45.92		
6842.80	V	-42.51		
3421.40	Horizontal	-48.54		
5132.10	H	-45.15		
6842.80	H	-40.93		
Middle				
3465.00	Vertical	-33.14	-13.00	Pass
5197.50	V	-47.43		
6930.00	V	-42.52		
3465.00	Horizontal	-34.97		
5197.50	H	-45.80		
6930.00	H	-41.76		
Highest				
3508.60	Vertical	-45.92	-13.00	Pass
5262.90	V	-44.48		
7017.20	V	-42.16		
3508.60	Horizontal	-47.51		
5262.90	H	-43.30		
7017.20	H	-42.23		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3423.00	Vertical	-48.03	-13.00	Pass
5134.50	V	-46.21		
6846.00	V	-43.52		
3423.00	Horizontal	-48.25		
5134.50	H	-40.31		
6846.00	H	-43.11		
Middle				
3465.00	Vertical	-48.76	-13.00	Pass
5197.50	V	-45.34		
6930.00	V	-48.15		
3465.00	Horizontal	-50.02		
5197.50	H	-45.51		
6930.00	H	-44.46		
Highest				
3507.00	Vertical	-45.28	-13.00	Pass
5260.50	V	-48.41		
7014.00	V	-41.16		
3507.00	Horizontal	-47.29		
5260.50	H	-44.02		
7014.00	H	-43.26		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-48.35	-13.00	Pass
5137.50	V	-46.78		
6850.00	V	-43.29		
3425.00	Horizontal	-47.12		
5137.50	H	-45.57		
6850.00	H	-42.70		
Middle				
3465.00	Vertical	-47.81	-13.00	Pass
5197.50	V	-44.33		
6930.00	V	-42.12		
3465.00	Horizontal	-47.59		
5197.50	H	-45.82		
6930.00	H	-42.34		
Highest				
3505.00	Vertical	-44.59	-13.00	Pass
5257.50	V	-47.71		
7010.00	V	-42.60		
3505.00	Horizontal	-47.54		
5257.50	H	-45.10		
7010.00	H	-40.23		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-47.65	-13.00	Pass
5145.00	V	-45.77		
6860.00	V	-43.31		
3430.00	Horizontal	-48.15		
5145.00	H	-46.03		
6860.00	H	-43.11		
Middle				
3465.00	Vertical	-48.31	-13.00	Pass
5197.50	V	-45.25		
6930.00	V	-47.61		
3465.00	Horizontal	-49.45		
5197.50	H	-44.81		
6930.00	H	-43.32		
Highest				
3500.00	Vertical	-46.03	-13.00	Pass
5250.00	V	-48.52		
7000.00	V	-42.01		
3500.00	Horizontal	-48.64		
5250.00	H	-46.34		
7000.00	H	-42.81		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-48.42	-13.00	Pass
5152.50	V	-47.03		
6870.00	V	-42.71		
3435.00	Horizontal	-48.04		
5152.50	H	-46.27		
6870.00	H	-41.13		
Middle				
3465.00	Vertical	-46.69	-13.00	Pass
5197.50	V	-45.37		
6930.00	V	-43.07		
3465.00	Horizontal	-47.81		
5197.50	H	-46.63		
6930.00	H	-43.21		
Highest				
3495.00	Vertical	-45.59	-13.00	Pass
5242.50	V	-48.41		
6990.00	V	-43.36		
3495.00	Horizontal	-47.50		
5242.50	H	-45.23		
6990.00	H	-41.02		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3440.00	Vertical	-47.36	-13.00	Pass
5160.00	V	-45.58		
6880.00	V	-42.67		
3440.00	Horizontal	-47.18		
5160.00	H	-46.04		
6880.00	H	-43.05		
Middle				
3465.00	Vertical	-48.20	-13.00	Pass
5197.50	V	-45.22		
6930.00	V	-41.40		
3465.00	Horizontal	-49.79		
5197.50	H	-44.75		
6930.00	H	-42.51		
Highest				
3490.00	Vertical	-45.13	-13.00	Pass
5235.00	V	-48.68		
6980.00	V	-42.07		
3490.00	Horizontal	-48.49		
5235.00	H	-46.73		
6980.00	H	-42.72		

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	-53.61	-13	Pass
2474.10	V	-51.67		
3298.80	V	-46.22		
1649.40	Horizontal	-48.85		
2474.10	H	-45.30		
3298.80	H	-46.30		
Middle				
1673.00	Vertical	-48.85	-13	Pass
2509.50	V	-45.30		
3346.00	V	-46.20		
1673.00	Horizontal	-54.15		
2509.50	H	-38.95		
3346.00	H	-45.73		
Highest				
1696.60	Vertical	-49.29	-13	Pass
2544.90	V	-51.61		
3393.20	V	-46.51		
1696.60	Horizontal	-53.42		
2544.90	H	-49.24		
3393.20	H	-46.11		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1651.00	Vertical	-53.72	-13	Pass
2476.50	V	-52.03		
3302.00	V	-46.35		
1651.00	Horizontal	-49.01		
2476.50	H	-45.28		
3302.00	H	-46.21		
Middle				
1673.00	Vertical	-48.71	-13	Pass
2509.50	V	-45.23		
3346.00	V	-46.19		
1673.00	Horizontal	-54.02		
2509.50	H	-39.23		
3346.00	H	-45.81		
Highest				
1695.00	Vertical	-50.03	-13	Pass
2542.50	V	-50.71		
3390.00	V	-47.23		
1695.00	Horizontal	-53.81		
2542.50	H	-50.02		
3390.00	H	-47.11		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1653.00	Vertical	-53.45	-13	Pass
2479.50	V	-51.84		
3306.00	V	-46.52		
1653.00	Horizontal	-48.91		
2479.50	H	-45.43		
3306.00	H	-46.71		
Middle				
1673.00	Vertical	-48.62	-13	Pass
2509.50	V	-45.28		
3346.00	V	-46.13		
1673.00	Horizontal	-54.02		
2509.50	H	-39.06		
3346.00	H	-45.12		
Highest				
1693.00	Vertical	-49.94	-13	Pass
2539.50	V	-51.53		
3386.00	V	-46.33		
1693.00	Horizontal	-53.61		
2539.50	H	-49.86		
3386.00	H	-47.02		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1658.00	Vertical	-53.81	-13	Pass
2487.00	V	-52.07		
3316.00	V	-46.52		
1658.00	Horizontal	-50.12		
2487.00	H	-46.63		
3316.00	H	-46.50		
Middle				
1673.00	Vertical	-49.02	-13	Pass
2509.50	V	-45.36		
3346.00	V	-47.21		
1673.00	Horizontal	-54.06		
2509.50	H	-40.13		
3346.00	H	-45.12		
Highest				
1688.00	Vertical	-50.12	-13	Pass
2532.00	V	-50.63		
3376.00	V	-47.23		
1688.00	Horizontal	-53.61		
2532.00	H	-50.47		
3376.00	H	-47.23		

LTE Band 7 Part:

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

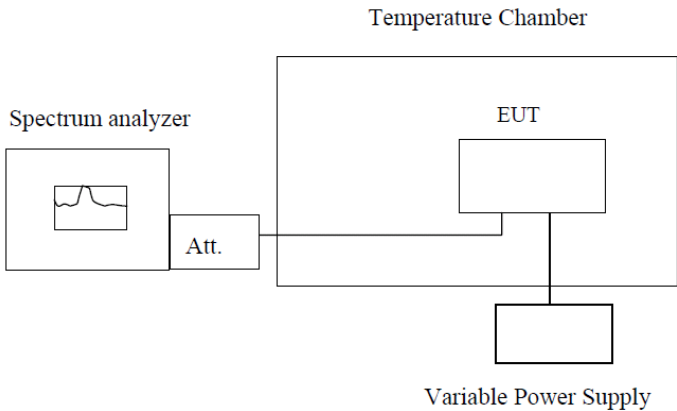
5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5005.00	Vertical	-46.30	-25.00	Pass
7507.50	V	-41.81		
10010.00	V	-40.30		
5005.00	Horizontal	-46.57		
7507.50	H	-41.26		
10010.00	H	-40.74		
Middle				
5070.00	Vertical	-46.78	-25.00	Pass
7605.00	V	-42.31		
10140.00	V	-41.11		
5070.00	Horizontal	-45.70		
7605.00	H	-39.36		
10140.00	H	-39.73		
Highest				
5135.00	Vertical	-45.47	-25.00	Pass
7702.50	V	-41.97		
10270.00	V	-40.04		
5135.00	Horizontal	-45.41		
7702.50	H	-42.18		
10270.00	H	-41.25		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5010.00	Vertical	-45.26	-25.00	Pass
7515.00	V	-42.16		
10020.00	V	-42.12		
5010.00	Horizontal	-46.25		
7515.00	H	-43.26		
10020.00	H	-42.38		
Middle				
5070.00	Vertical	-43.86	-25.00	Pass
7605.00	V	-42.66		
10140.00	V	-41.58		
5070.00	Horizontal	-42.62		
7605.00	H	-42.31		
10140.00	H	-42.84		
Highest				
5130.00	Vertical	-44.94	-25.00	Pass
7695.00	V	-41.36		
10260.00	V	-38.51		
5130.00	Horizontal	-46.26		
7695.00	H	-42.15		
10260.00	H	-40.03		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5015.00	Vertical	-45.23	-25.00	Pass
7522.50	V	-42.01		
10030.00	V	-40.86		
5015.00	Horizontal	-46.91		
7522.50	H	-41.35		
10030.00	H	-41.62		
Middle				
5070.00	Vertical	-46.82	-25.00	Pass
7605.00	V	-43.01		
10140.00	V	-41.52		
5070.00	Horizontal	-45.83		
7605.00	H	-40.16		
10140.00	H	-40.33		
Highest				
5125.00	Vertical	-45.62	-25.00	Pass
7687.50	V	-42.03		
10250.00	V	-41.25		
5125.00	Horizontal	-46.32		
7687.50	H	-43.03		
10250.00	H	-42.25		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5020.00	Vertical	-44.95	-25.00	Pass
7530.00	V	-41.03		
10040.00	V	-40.18		
5020.00	Horizontal	-46.01		
7530.00	H	-42.11		
10040.00	H	-41.95		
Middle				
5070.00	Vertical	-43.93	-25.00	Pass
7605.00	V	-42.54		
10140.00	V	-42.38		
5070.00	Horizontal	-41.54		
7605.00	H	-42.71		
10140.00	H	-42.07		
Highest				
5120.00	Vertical	-44.58	-25.00	Pass
7680.00	V	-40.20		
10240.00	V	-37.49		
5120.00	Horizontal	-45.00		
7680.00	H	-41.71		
10240.00	H	-39.62		

6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	±2.5ppm
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.8 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 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		
3.80	-30	198	0.114286	±2.5	Pass
	-20	159	0.091775		
	-10	132	0.076190		
	0	101	0.058297		
	10	142	0.081962		
	20	104	0.060029		
	30	152	0.087734		
	40	165	0.095238		
	50	177	0.102165		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	123	0.070996	±2.5	Pass
	-20	132	0.076190		
	-10	152	0.087734		
	0	160	0.092352		
	10	104	0.060029		
	20	174	0.100433		
	30	145	0.083694		
	40	165	0.095238		
	50	108	0.062338		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	165	0.095238	±2.5	Pass
	-20	121	0.069841		
	-10	135	0.077922		
	0	160	0.092352		
	10	142	0.081962		
	20	174	0.100433		
	30	110	0.063492		
	40	104	0.060029		
	50	109	0.062915		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	187	0.107937	±2.5	Pass
	-20	156	0.090043		
	-10	123	0.070996		
	0	144	0.083117		
	10	165	0.095238		
	20	180	0.103896		
	30	174	0.100433		
	40	166	0.095815		
	50	107	0.061760		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.089466	±2.5	Pass
	-20	165	0.095238		
	-10	123	0.070996		
	0	113	0.065224		
	10	132	0.076190		
	20	138	0.079654		
	30	104	0.060029		
	40	145	0.083694		
	50	144	0.083117		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	199	0.114863	±2.5	Pass
	-20	122	0.070418		
	-10	136	0.078499		
	0	120	0.069264		
	10	151	0.087157		
	20	145	0.083694		
	30	146	0.084271		
	40	174	0.100433		
	50	105	0.060606		

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		
3.80	-30	156	0.090043	±2.5	Pass
	-20	123	0.070996		
	-10	131	0.075613		
	0	125	0.072150		
	10	144	0.083117		
	20	165	0.095238		
	30	104	0.060029		
	40	111	0.064069		
	50	149	0.086003		

Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	100	0.057720	±2.5	Pass
	-20	123	0.070996		
	-10	162	0.093506		
	0	108	0.062338		
	10	133	0.076768		
	20	138	0.079654		
	30	144	0.083117		
	40	149	0.086003		
	50	117	0.067532		

Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	185	0.106782	±2.5	Pass
	-20	123	0.070996		
	-10	165	0.095238		
	0	120	0.069264		
	10	104	0.060029		
	20	114	0.065801		
	30	174	0.100433		
	40	172	0.099278		
	50	166	0.095815		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.089466	±2.5	Pass
	-20	123	0.070996		
	-10	126	0.072727		
	0	132	0.076190		
	10	136	0.078499		
	20	112	0.064646		
	30	145	0.083694		
	40	115	0.066378		
	50	146	0.084271		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	156	0.090043	±2.5	Pass
	-20	162	0.093506		
	-10	132	0.076190		
	0	104	0.060029		
	10	114	0.065801		
	20	107	0.061760		
	30	118	0.068110		
	40	144	0.083117		
	50	143	0.082540		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	150	0.086580	±2.5	Pass
	-20	132	0.076190		
	-10	162	0.093506		
	0	110	0.063492		
	10	114	0.065801		
	20	123	0.070996		
	30	165	0.095238		
	40	145	0.083694		
	50	144	0.083117		

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		
3.80	-30	198	0.236701	±2.5	Pass
	-20	123	0.147041		
	-10	165	0.197250		
	0	174	0.208010		
	10	180	0.215182		
	20	123	0.147041		
	30	134	0.160191		
	40	145	0.173341		
	50	140	0.167364		
Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.185296	±2.5	Pass
	-20	123	0.147041		
	-10	136	0.162582		
	0	164	0.196055		
	10	142	0.169755		
	20	174	0.208010		
	30	104	0.124328		
	40	105	0.125523		
	50	116	0.138673		
Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	156	0.186491	±2.5	Pass
	-20	164	0.196055		
	-10	160	0.191273		
	0	132	0.157800		
	10	130	0.155409		
	20	123	0.147041		
	30	128	0.153019		
	40	145	0.173341		
	50	146	0.174537		
Reference Frequency: LTE Band 5(10MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	166	0.198446	±2.5	Pass
	-20	123	0.147041		
	-10	130	0.155409		
	0	111	0.132696		
	10	145	0.173341		
	20	144	0.172146		
	30	138	0.164973		
	40	155	0.185296		
	50	158	0.188882		

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		
3.80	-30	155	0.185296	±2.5	Pass
	-20	123	0.147041		
	-10	136	0.162582		
	0	165	0.197250		
	10	120	0.143455		
	20	124	0.148237		
	30	114	0.136282		
	40	110	0.131500		
	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		
3.80	-30	166	0.198446	±2.5	Pass
	-20	151	0.180514		
	-10	123	0.147041		
	0	134	0.160191		
	10	107	0.127914		
	20	108	0.129109		
	30	114	0.136282		
	40	126	0.150628		
	50	144	0.172146		
Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	165	0.197250	2.5	Pass
	-20	123	0.147041		
	-10	136	0.162582		
	0	139	0.166169		
	10	149	0.178123		
	20	174	0.208010		
	30	126	0.150628		
	40	104	0.124328		
	50	118	0.141064		
Reference Frequency: LTE Band 5(10MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	145	0.173341	2.5	Pass
	-20	123	0.147041		
	-10	130	0.155409		
	0	147	0.175732		
	10	178	0.212791		
	20	105	0.125523		
	30	102	0.121937		
	40	115	0.137478		
	50	116	0.138673		

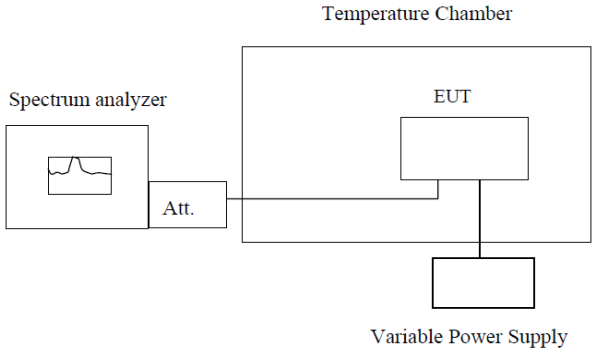
LTE Band 7(QPSK):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	199	0.078501	±2.5	Pass
	-20	153	0.060355		
	-10	165	0.065089		
	0	123	0.048521		
	10	134	0.052860		
	20	177	0.069822		
	30	184	0.072584		
	40	145	0.057199		
	50	166	0.065483		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	156	0.061538	±2.5	Pass
	-20	184	0.072584		
	-10	123	0.048521		
	0	104	0.041026		
	10	174	0.068639		
	20	123	0.048521		
	30	106	0.041815		
	40	118	0.046548		
	50	114	0.044970		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.061144	±2.5	Pass
	-20	123	0.048521		
	-10	164	0.064694		
	0	144	0.056805		
	10	143	0.056410		
	20	128	0.050493		
	30	115	0.045365		
	40	110	0.043393		
	50	147	0.057988		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	197	0.077712	±2.5	Pass
	-20	152	0.059961		
	-10	122	0.048126		
	0	134	0.052860		
	10	104	0.041026		
	20	117	0.046154		
	30	165	0.065089		
	40	160	0.063116		
	50	140	0.055227		

LTE Band 7(16QAM):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	156	0.061538	±2.5	Pass
	-20	123	0.048521		
	-10	131	0.051677		
	0	134	0.052860		
	10	165	0.065089		
	20	128	0.050493		
	30	101	0.039842		
	40	104	0.041026		
	50	144	0.056805		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.061144	±2.5	Pass
	-20	123	0.048521		
	-10	134	0.052860		
	0	174	0.068639		
	10	101	0.039842		
	20	103	0.040631		
	30	144	0.056805		
	40	140	0.055227		
	50	143	0.056410		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	165	0.065089	2.5	Pass
	-20	123	0.048521		
	-10	169	0.066667		
	0	133	0.052465		
	10	134	0.052860		
	20	144	0.056805		
	30	148	0.058383		
	40	107	0.042209		
	50	118	0.046548		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	102	0.040237	2.5	Pass
	-20	104	0.041026		
	-10	165	0.065089		
	0	144	0.056805		
	10	148	0.058383		
	20	132	0.052071		
	30	136	0.053649		
	40	128	0.050493		
	50	120	0.047337		

6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
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 4(QPSK):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	55	0.031746	±2.5	Pass
	3.80	62	0.035786		
	3.23	85	0.049062		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	77	0.044444	±2.5	Pass
	3.80	48	0.027706		
	3.23	92	0.053102		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	99	0.057143	±2.5	Pass
	3.80	64	0.036941		
	3.23	82	0.047330		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	77	0.044444	±2.5	Pass
	3.80	84	0.048485		
	3.23	61	0.035209		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	45	0.025974	±2.5	Pass
	3.80	65	0.037518		
	3.23	82	0.047330		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	74	0.042713	±2.5	Pass
	3.80	98	0.056566		
	3.23	81	0.046753		

LTE Band 4(16QAM):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	99	0.057143	±2.5	Pass
	3.80	85	0.049062		
	3.23	74	0.042713		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	84	0.048485	±2.5	Pass
	3.80	65	0.037518		
	3.23	99	0.057143		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	85	0.049062	±2.5	Pass
	3.80	82	0.047330		
	3.23	64	0.036941		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	74	0.042713	±2.5	Pass
	3.80	86	0.049639		
	3.23	60	0.034632		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	94	0.054257	±2.5	Pass
	3.80	86	0.049639		
	3.23	99	0.057143		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	78	0.045022	±2.5	Pass
	3.80	71	0.040981		
	3.23	54	0.031169		

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	4.37	98	0.117155	±2.5	Pass
	3.80	45	0.053796		
	3.23	78	0.093246		
Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	84	0.100418	±2.5	Pass
	3.80	75	0.089659		
	3.23	98	0.117155		
Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	66	0.078900	±2.5	Pass
	3.80	98	0.117155		
	3.23	67	0.080096		
Reference Frequency: LTE Band5(10MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	84	0.100418	±2.5	Pass
	3.80	74	0.088464		
	3.23	98	0.117155		

LTE Band 5(16QAM):

Reference Frequency: LTE Band 5(1.4MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	84	0.100418	±2.5	Pass
	3.80	75	0.089659		
	3.23	98	0.117155		
Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	87	0.104005	±2.5	Pass
	3.80	78	0.093246		
	3.23	95	0.113568		
Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	66	0.078900	±2.5	Pass
	3.80	64	0.076509		
	3.23	85	0.101614		
Reference Frequency: LTE Band 5(10MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	74	0.088464	±2.5	Pass
	3.80	78	0.093246		
	3.23	80	0.095637		

LTE Band 7(QPSK):

LTE Band 7(5MHz)

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	4.37	99	0.039053	±2.5	Pass
	3.80	88	0.034714		
	3.23	74	0.029191		
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	4.37	64	0.025247	±2.5	Pass
	3.80	80	0.031558		
	3.23	70	0.027613		
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	4.37	98	0.038659	±2.5	Pass
	3.80	82	0.032347		
	3.23	80	0.031558		
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	4.37	74	0.029191	±2.5	Pass
	3.80	70	0.027613		
	3.23	84	0.033136		

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	4.37	65	0.025641	±2.5	Pass
	3.80	84	0.033136		
	3.23	90	0.035503		
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	4.37	94	0.037081	±2.5	Pass
	3.80	74	0.029191		
	3.23	80	0.031558		
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	4.37	84	0.033136	±2.5	Pass
	3.80	80	0.031558		
	3.23	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	4.37	77	0.030375	±2.5	Pass
	3.80	45	0.017751		
	3.23	44	0.017357		