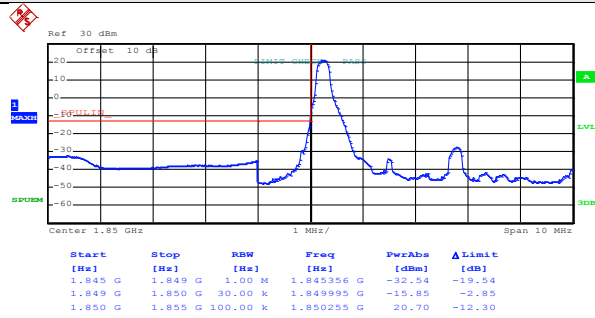


3MHz:

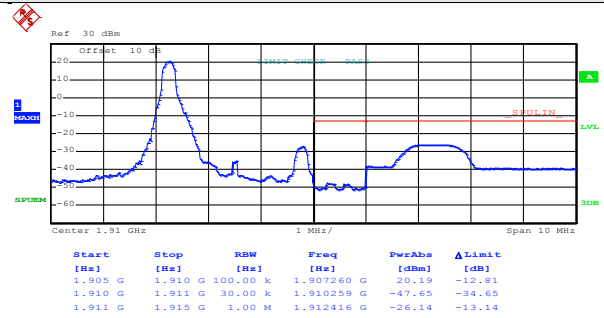
Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 0)



Date: 18.MAY.2017 20:35:11

Lowest channel

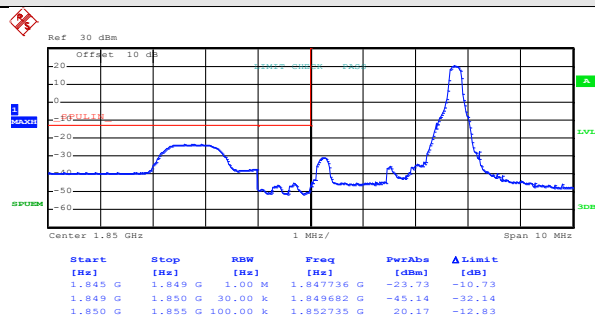


Date: 18.MAY.2017 20:37:29

Highest channel

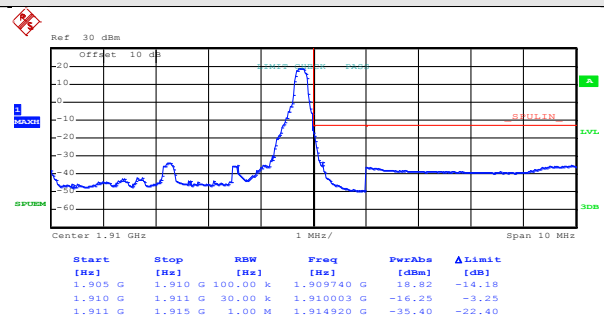
Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 14)



Date: 18.MAY.2017 20:35:30

Lowest channel

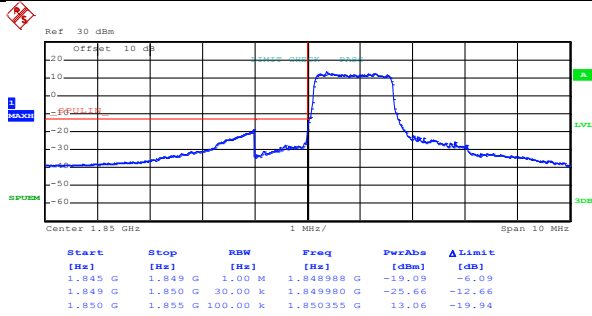


Date: 18.MAY.2017 20:37:47

Highest channel

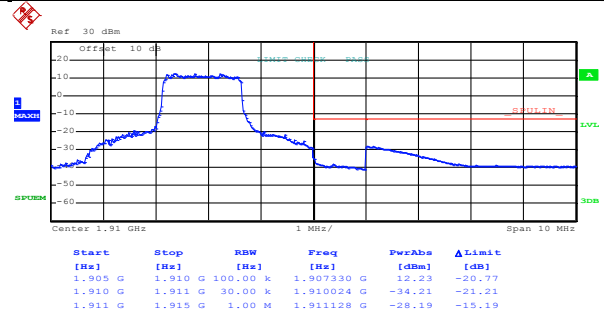
Test Mode:

LTE band 2(QPSK RB Size 8 & RB Offset 0)



Date: 18.MAY.2017 20:35:59

Lowest channel

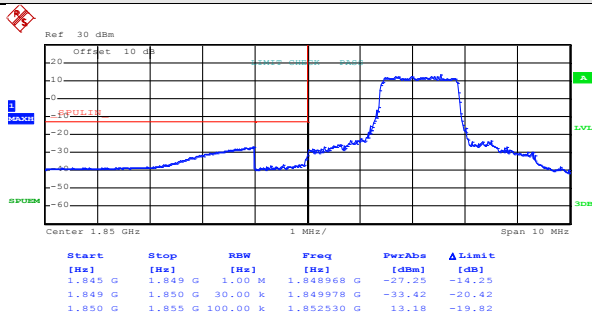


Date: 18.MAY.2017 20:38:07

Highest channel

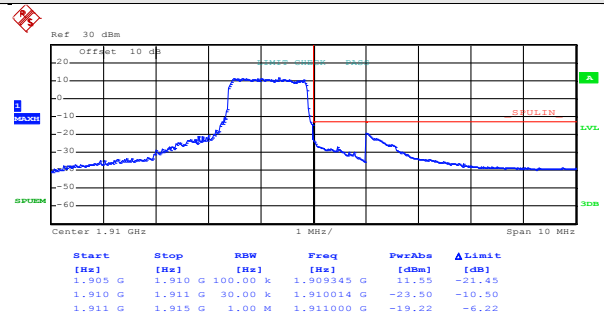
Test Mode:

LTE band 2(QPSK RB Size 8 & RB Offset 7)



Date: 18.MAY.2017 20:36:25

Lowest channel

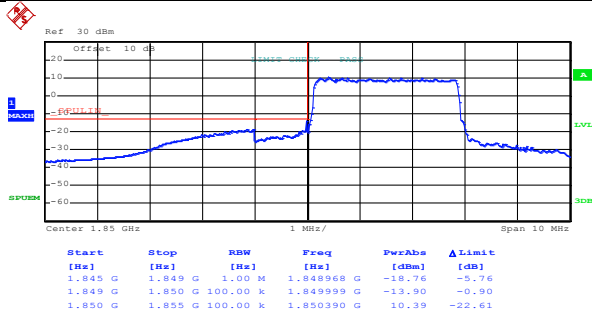


Date: 18.MAY.2017 20:38:26

Highest channel

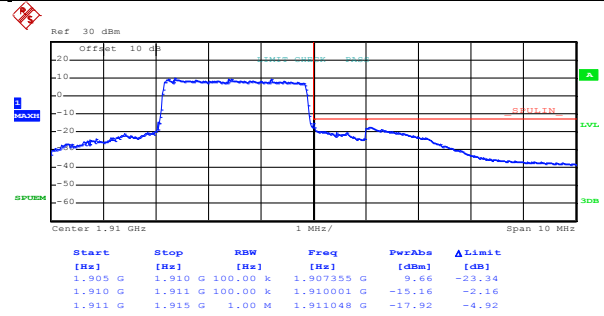
Test Mode:

LTE band 2(QPSK RB Size 15 & RB Offset 0)



Date: 18.MAY.2017 20:36:56

Lowest channel

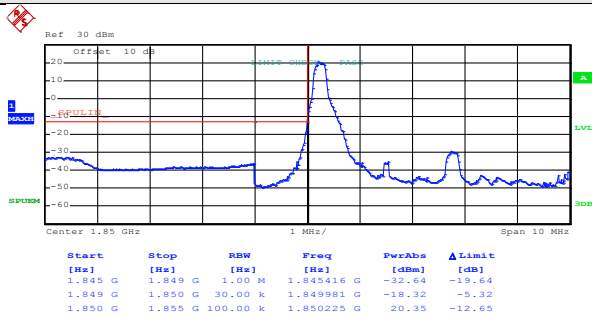


Date: 18.MAY.2017 20:39:06

Highest channel

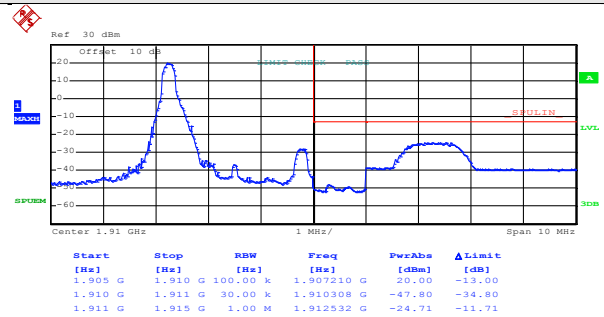
Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 0)



Date: 18.MAY.2017 20:35:19

Lowest channel

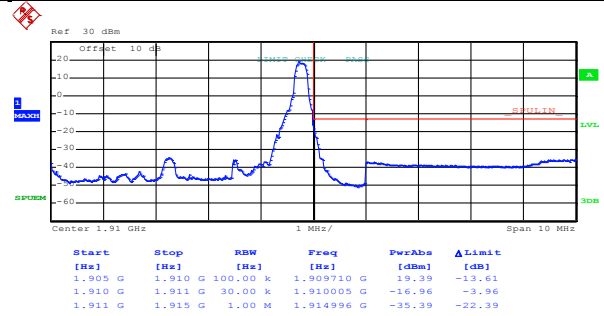
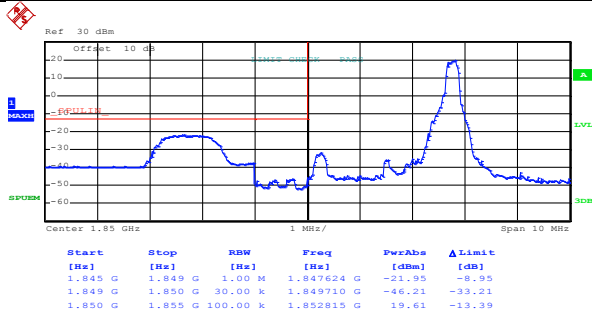


Date: 18.MAY.2017 20:37:37

Highest channel

Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 14)



Date: 18.MAY.2017 20:35:38

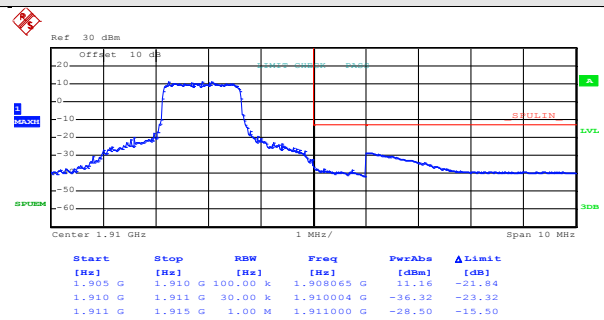
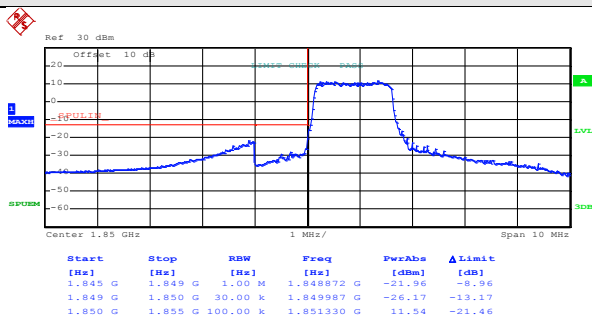
Date: 18.MAY.2017 20:37:55

Lowest channel

Highest channel

Test Mode:

LTE band 2(16QAM RB Size 8 & RB Offset 0)



Date: 18.MAY.2017 20:36:07

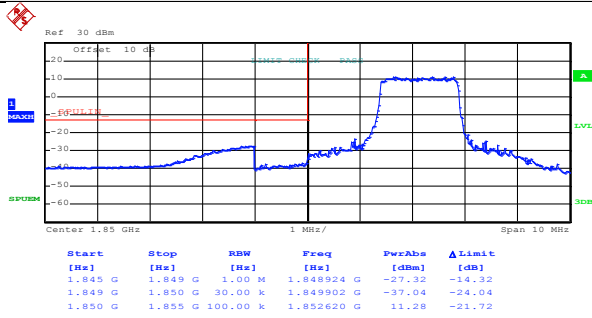
Date: 18.MAY.2017 20:38:14

Lowest channel

Highest channel

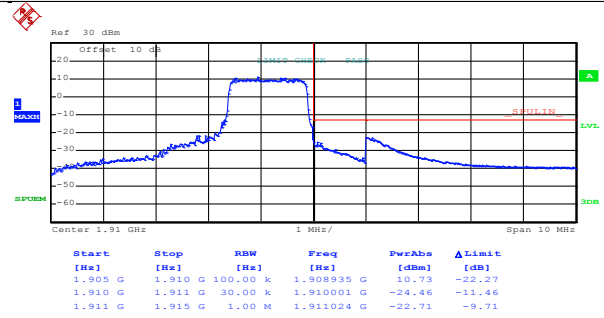
Test Mode:

LTE band 2(16QAM RB Size 8 & RB Offset 7)



Date: 18.MAY.2017 20:36:33

Lowest channel

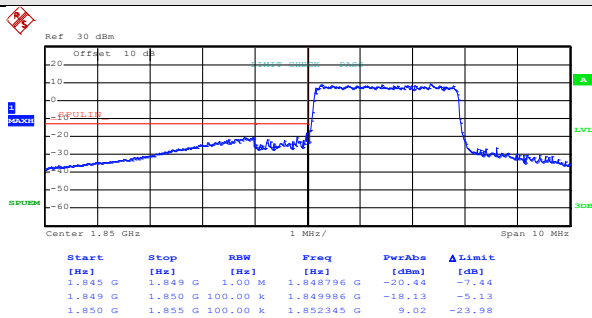


Date: 18.MAY.2017 20:38:36

Highest channel

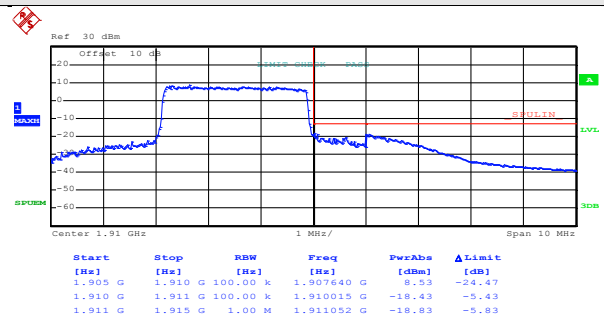
Test Mode:

LTE band 2(16QAM RB Size 15 & RB Offset 0)



Date: 18.MAY.2017 20:37:03

Lowest channel



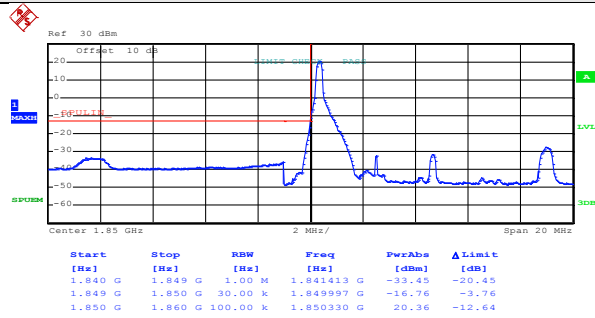
Date: 18.MAY.2017 20:39:13

Highest channel

5MHz:

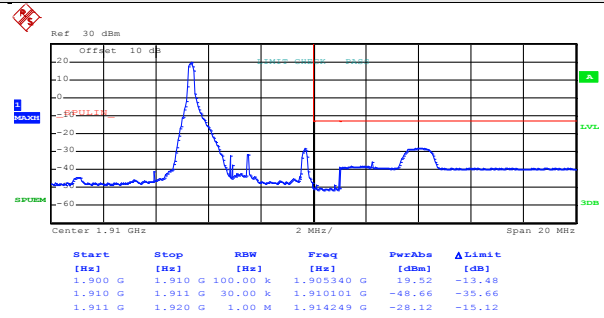
Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 0)



Date: 18.MAY.2017 20:40:36

Lowest channel

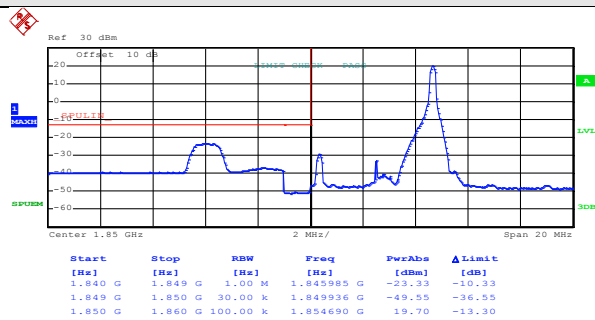


Date: 18.MAY.2017 20:44:47

Highest channel

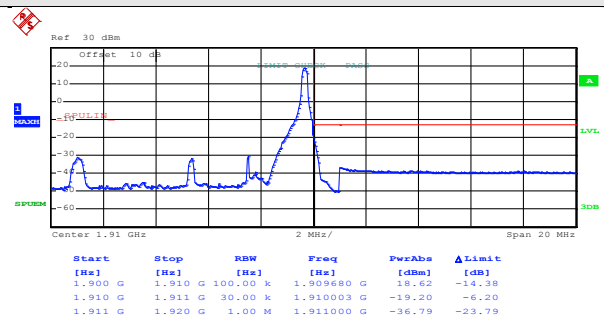
Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 24)



Date: 18.MAY.2017 20:40:56

Lowest channel

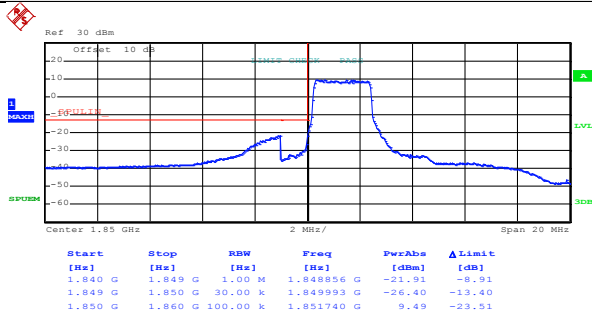


Date: 18.MAY.2017 20:45:06

Highest channel

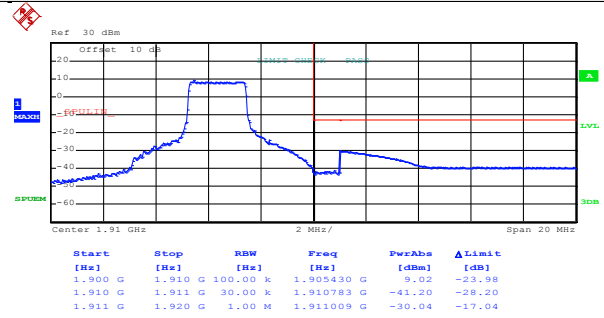
Test Mode:

LTE band 2(QPSK RB Size 12 & RB Offset 0)



Date: 18.MAY.2017 20:41:23

Lowest channel

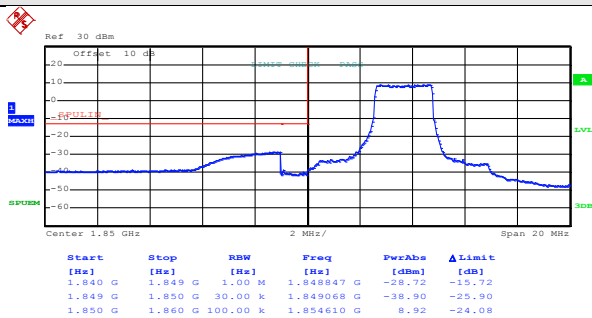


Date: 18.MAY.2017 20:45:28

Highest channel

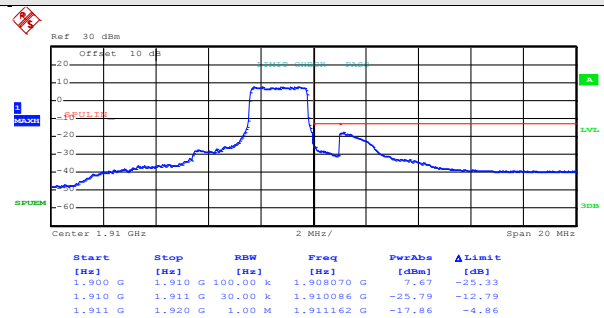
Test Mode:

LTE band 2(QPSK RB Size 12 & RB Offset 11)



Date: 18.MAY.2017 20:41:27

Lowest channel

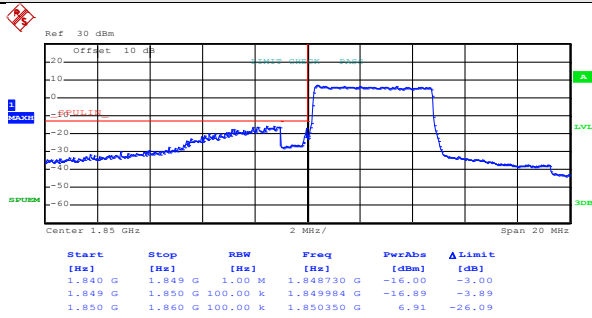


Date: 14.MAY.2017 21:34:29

Highest channel

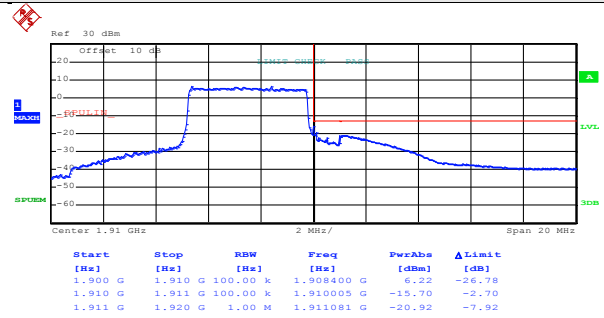
Test Mode:

LTE band 2(QPSK RB Size 25 & RB Offset 0)



Date: 18.MAY.2017 20:43:18

Lowest channel

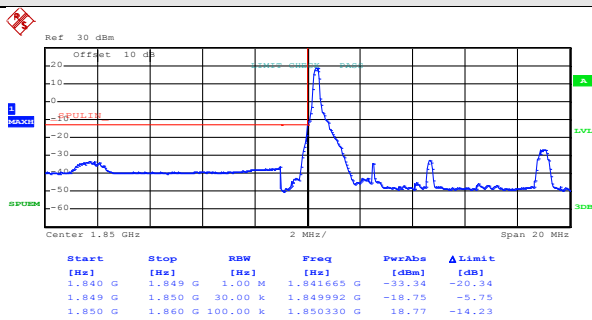


Date: 18.MAY.2017 20:45:55

Highest channel

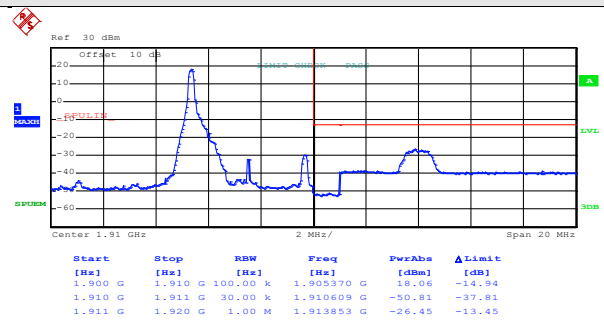
Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 0)



Date: 18.MAY.2017 20:40:43

Lowest channel

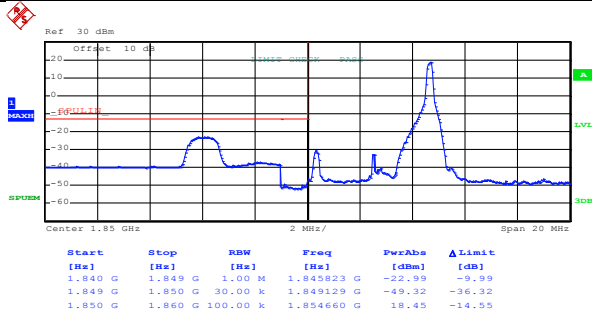


Date: 18.MAY.2017 20:44:55

Highest channel

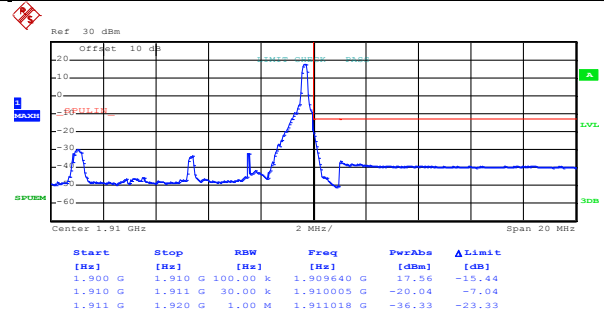
Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 24)



Date: 18.MAY.2017 20:41:10

Lowest channel

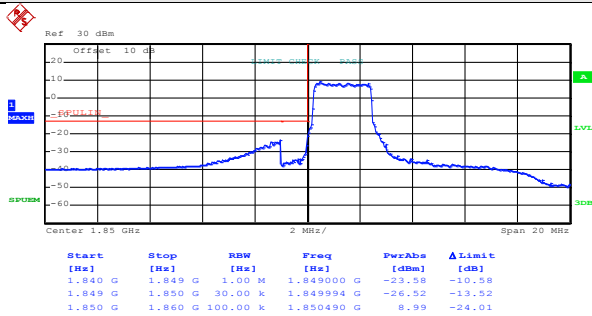


Date: 18.MAY.2017 20:45:15

Highest channel

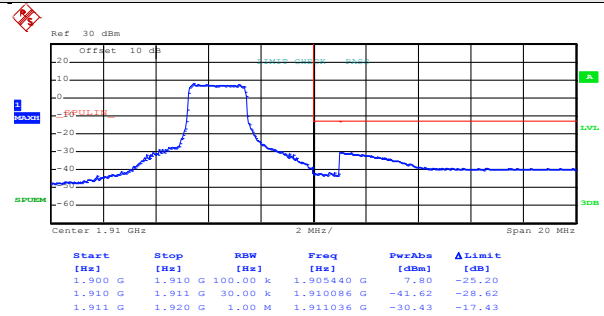
Test Mode:

LTE band 2(16QAM RB Size 12 & RB Offset 0)



Date: 18.MAY.2017 20:41:33

Lowest channel

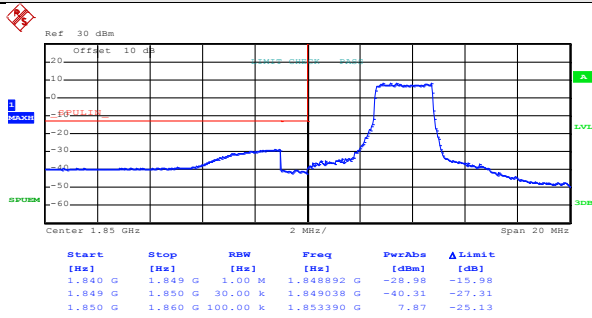


Date: 18.MAY.2017 20:45:37

Highest channel

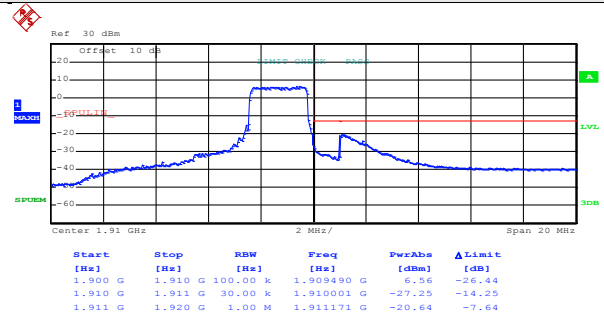
Test Mode:

LTE band 2(16QAM RB Size 12 & RB Offset 11)



Date: 18.MAY.2017 20:41:57

Lowest channel

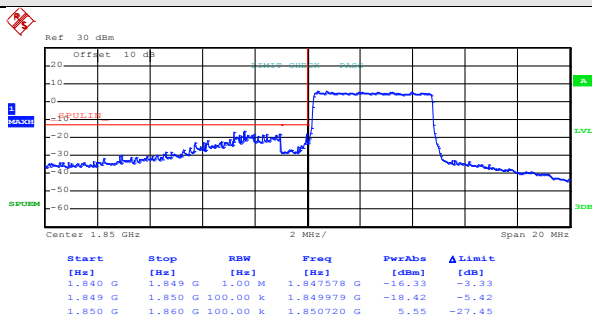


Date: 14.MAY.2017 21:34:38

Highest channel

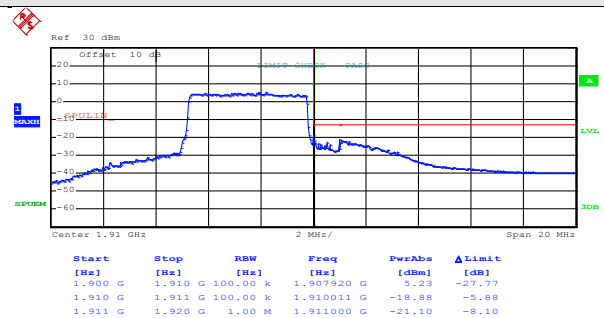
Test Mode:

LTE band 2(16QAM RB Size 25 & RB Offset 0)



Date: 18.MAY.2017 20:44:02

Lowest channel



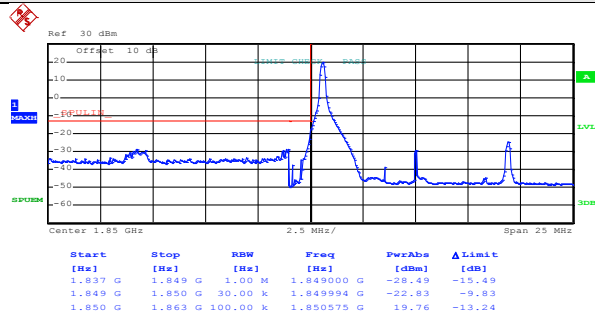
Date: 18.MAY.2017 20:46:02

Highest channel

10MHz:

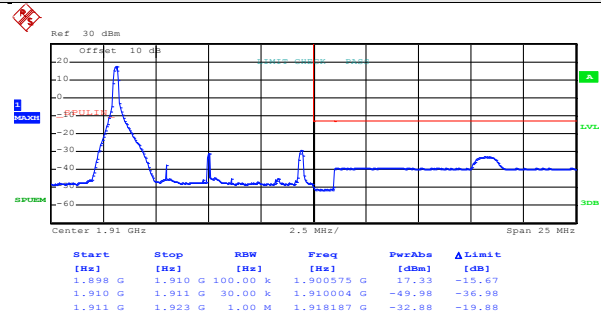
Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 0)



Date: 18.MAY.2017 20:47:21

Lowest channel

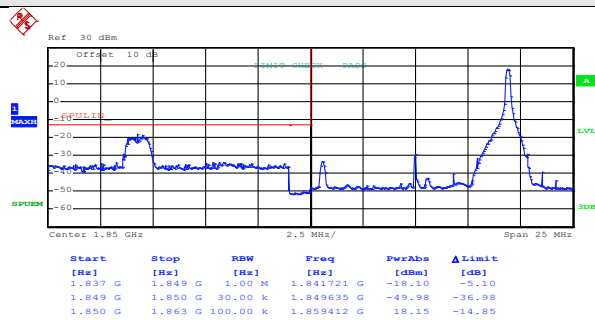


Date: 18.MAY.2017 20:50:21

Highest channel

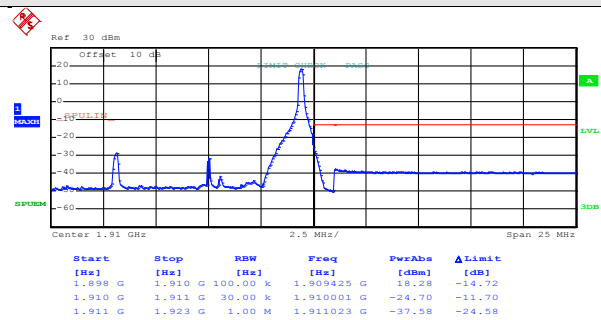
Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 49)



Date: 18.MAY.2017 20:47:41

Lowest channel

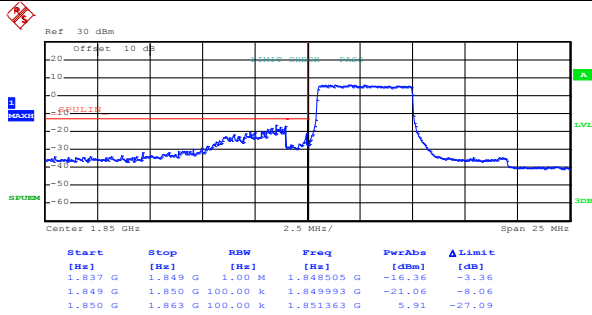


Date: 18.MAY.2017 20:50:41

Highest channel

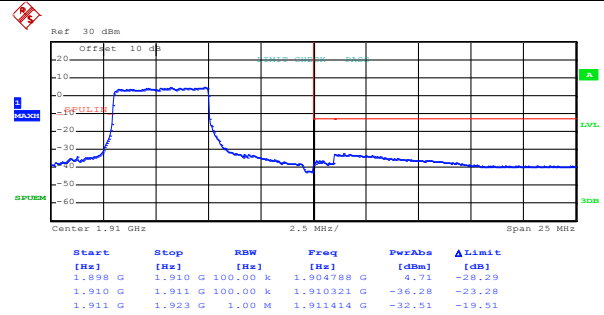
Test Mode:

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



Date: 18.MAY.2017 20:48:40

Lowest channel

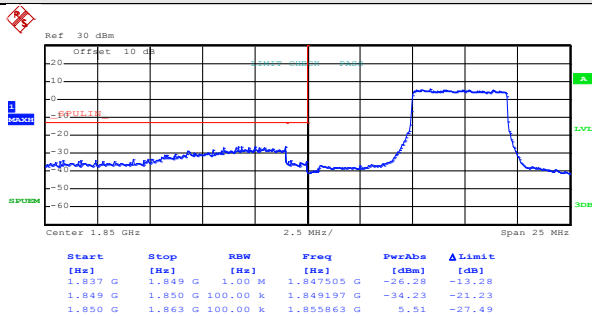


Date: 18.MAY.2017 20:51:10

Highest channel

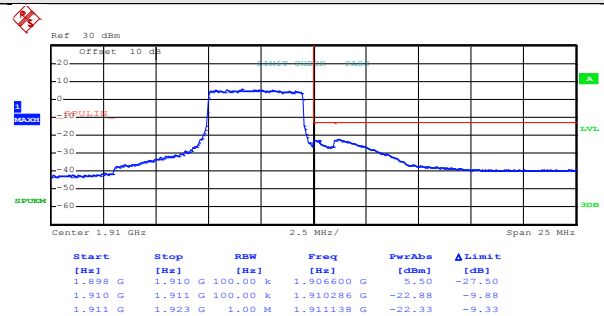
Test Mode:

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



Date: 18.MAY.2017 20:49:00

Lowest channel

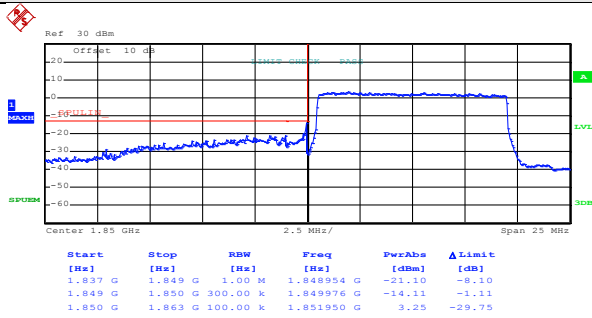


Date: 18.MAY.2017 20:51:33

Highest channel

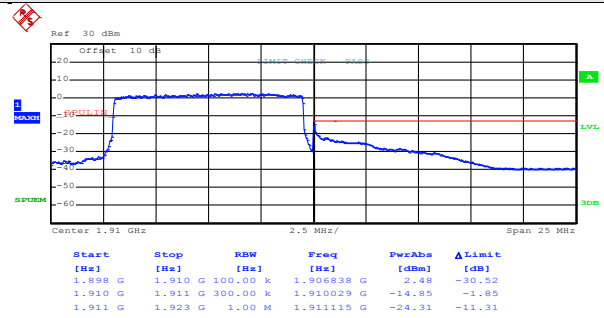
Test Mode:

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



Date: 18.MAY.2017 20:49:24

Lowest channel

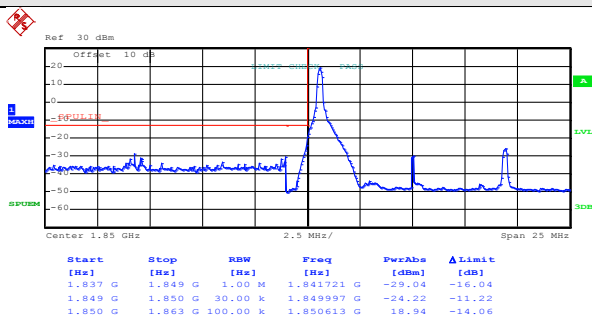


Date: 18.MAY.2017 20:52:05

Highest channel

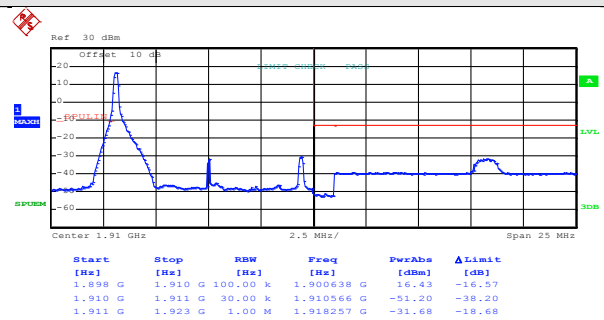
Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 0)



Date: 18.MAY.2017 20:47:30

Lowest channel

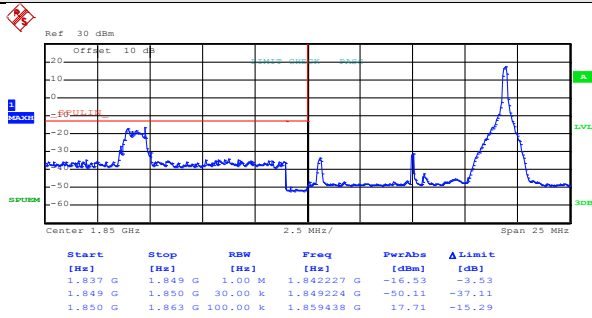


Date: 18.MAY.2017 20:50:29

Highest channel

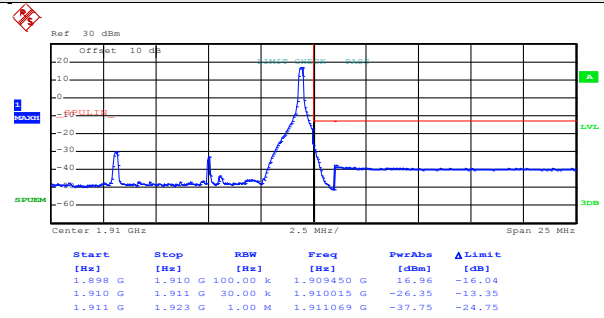
Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 49)



Date: 18.MAY.2017 20:47:50

Lowest channel

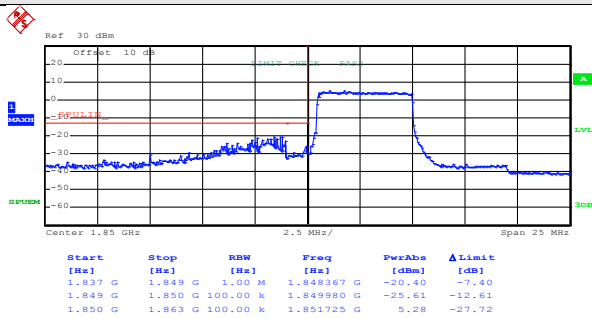


Date: 18.MAY.2017 20:50:51

Highest channel

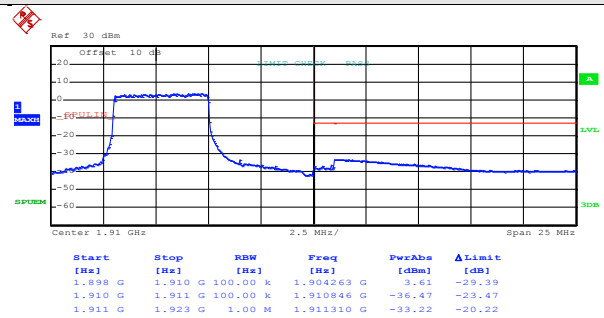
Test Mode:

LTE band 2(16QAM RB Size 25 & RB Offset 0)



Date: 18.MAY.2017 20:48:48

Lowest channel

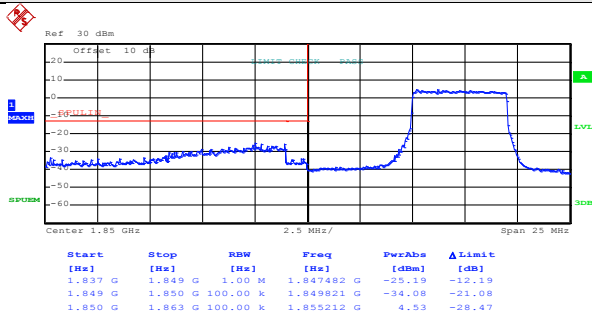


Date: 18.MAY.2017 20:51:21

Highest channel

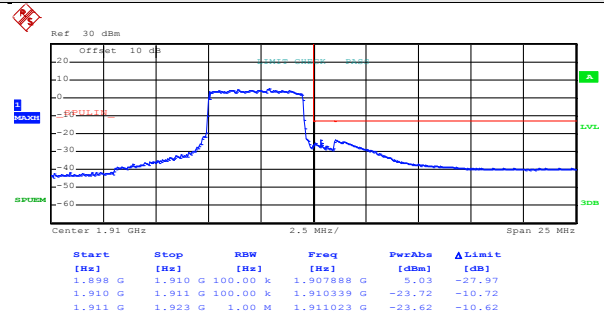
Test Mode:

LTE band 2(16QAM RB Size 25 & RB Offset 24)



Date: 18.MAY.2017 20:49:09

Lowest channel

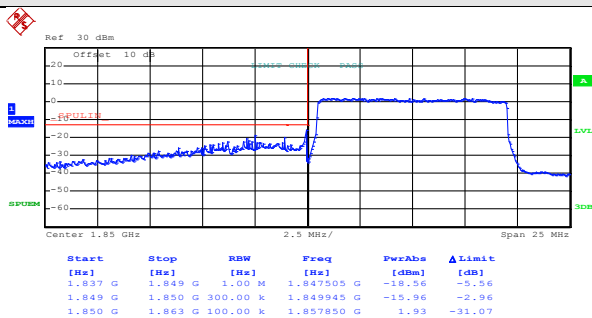


Date: 18.MAY.2017 20:51:46

Highest channel

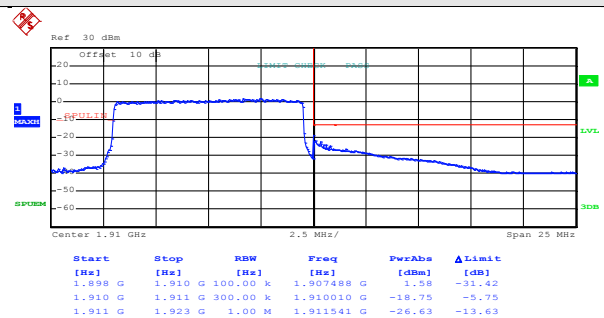
Test Mode:

LTE band 2(16QAM RB Size 50 & RB Offset 0)



Date: 18.MAY.2017 20:49:33

Lowest channel



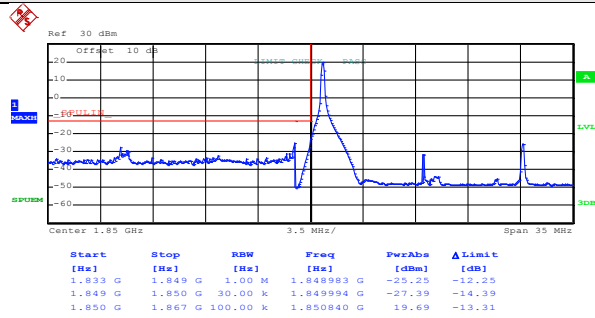
Date: 18.MAY.2017 20:52:13

Highest channel

15MHz:

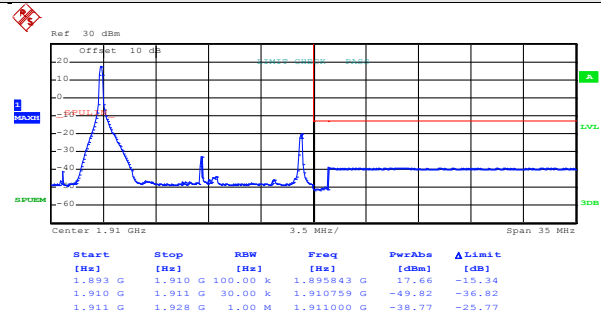
Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 0)



Date: 18.MAY.2017 20:53:22

Lowest channel

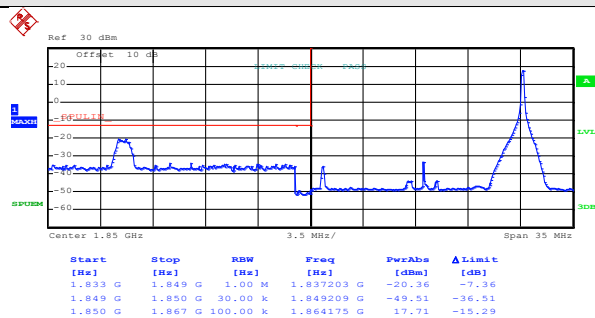


Date: 18.MAY.2017 20:59:17

Highest channel

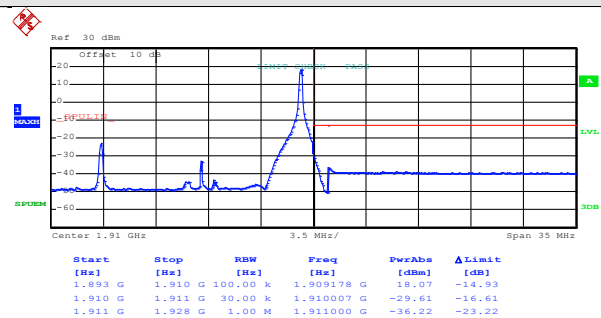
Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 74)



Date: 18.MAY.2017 20:53:41

Lowest channel

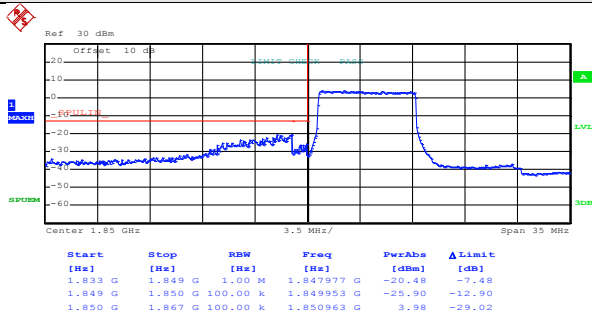


Date: 18.MAY.2017 20:59:40

Highest channel

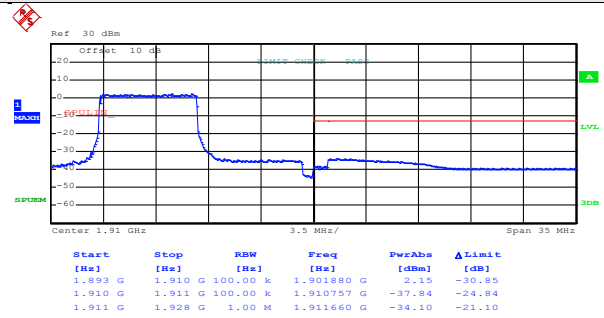
Test Mode:

LTE band 2(QPSK RB Size 36 & RB Offset 0)



Date: 18.MAY.2017 20:54:16

Lowest channel

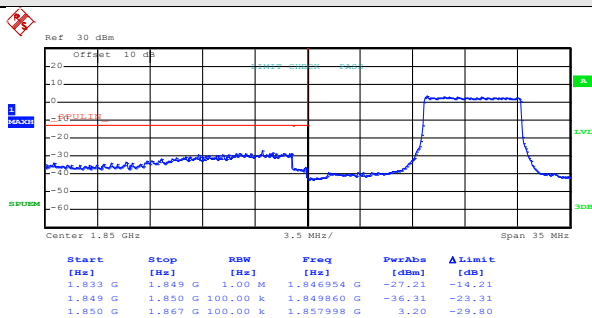


Date: 18.MAY.2017 21:00:12

Highest channel

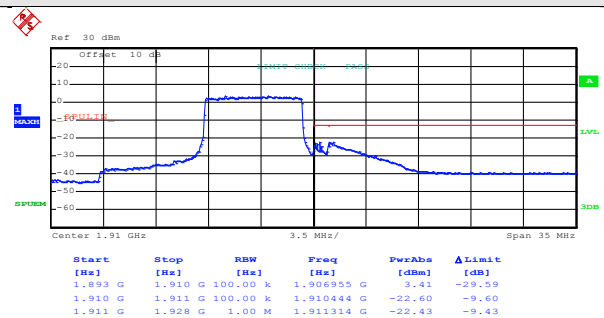
Test Mode:

LTE band 2(QPSK RB Size 36 & RB Offset 37)



Date: 18.MAY.2017 20:54:40

Lowest channel

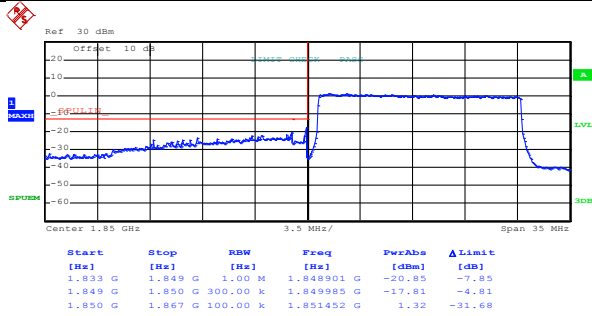


Date: 18.MAY.2017 21:00:37

Highest channel

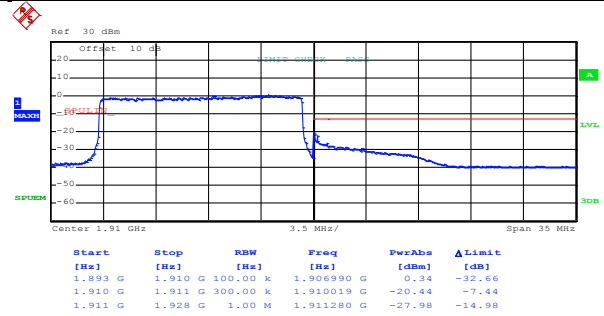
Test Mode:

LTE band 2(QPSK RB Size 75 & RB Offset 0)



Date: 18.MAY.2017 20:56:30

Lowest channel

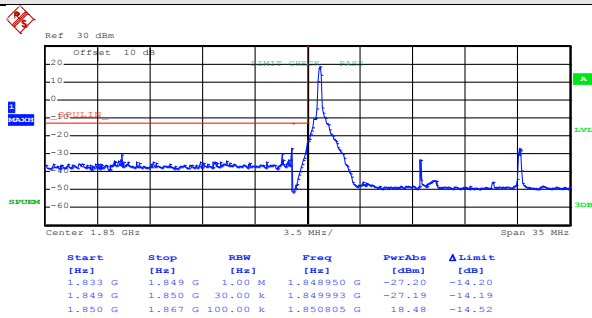


Date: 18.MAY.2017 21:01:05

Highest channel

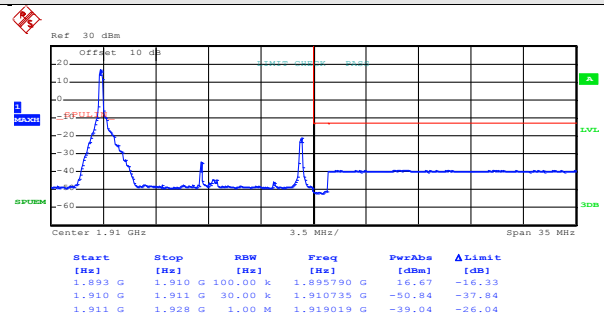
Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 0)



Date: 18.MAY.2017 20:53:30

Lowest channel

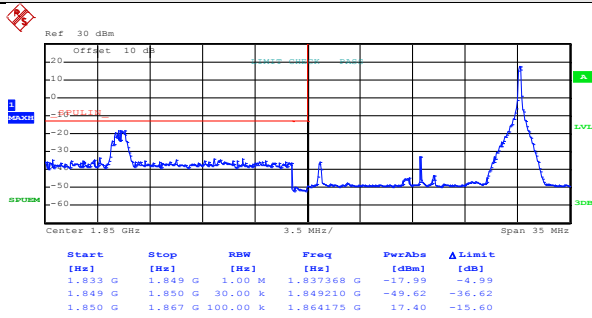


Date: 18.MAY.2017 20:59:27

Highest channel

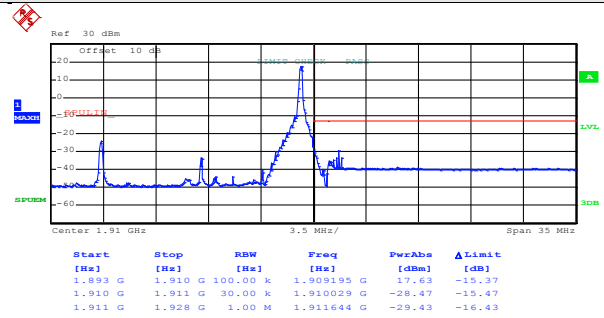
Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 74)



Date: 18.MAY.2017 20:53:51

Lowest channel

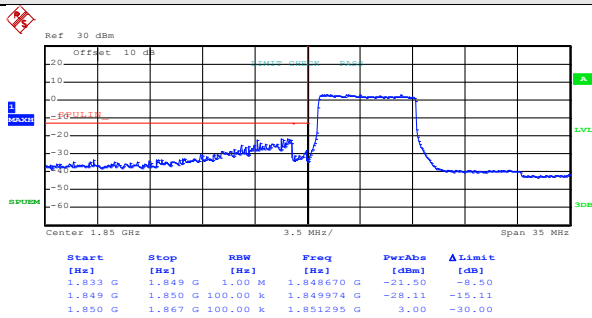


Date: 18.MAY.2017 20:59:51

Highest channel

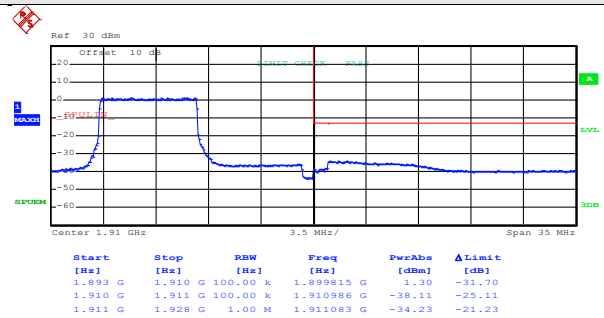
Test Mode:

LTE band 2(16QAM RB Size 36 & RB Offset 0)



Date: 18.MAY.2017 20:54:25

Lowest channel

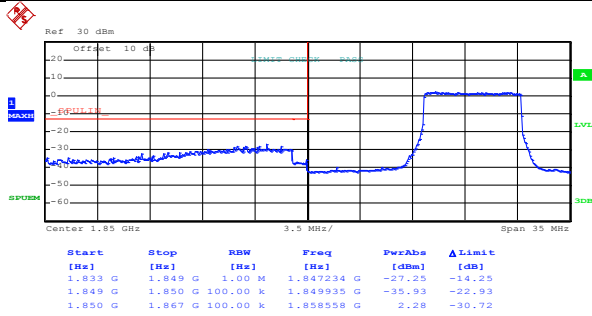


Date: 18.MAY.2017 21:00:21

Highest channel

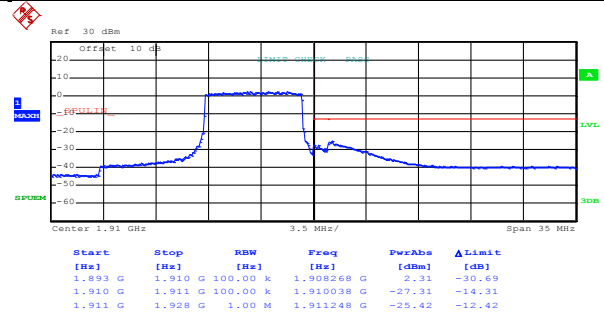
Test Mode:

LTE band 2(16QAM RB Size 36 & RB Offset 37)



Date: 18.MAY.2017 20:55:00

Lowest channel

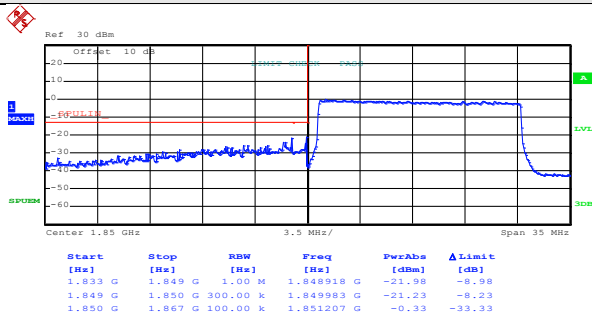


Date: 18.MAY.2017 21:00:48

Highest channel

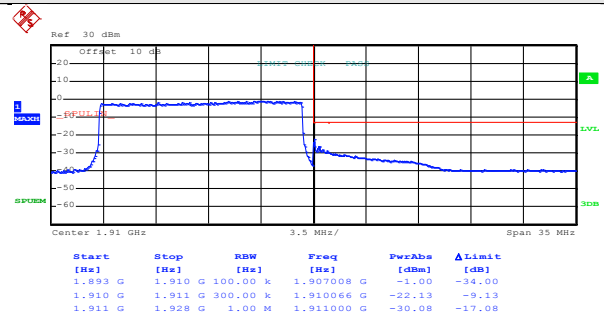
Test Mode:

LTE band 2(16QAM RB Size 75 & RB Offset 0)



Date: 18.MAY.2017 20:56:38

Lowest channel



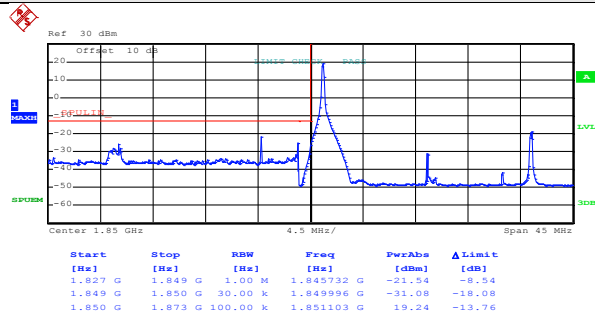
Date: 18.MAY.2017 21:01:12

Highest channel

20MHz:

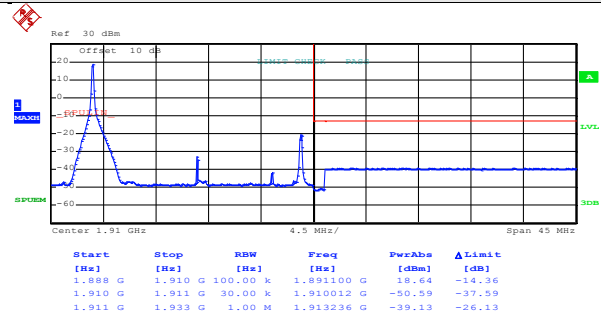
Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 0)



Date: 18.MAY.2017 21:02:19

Lowest channel

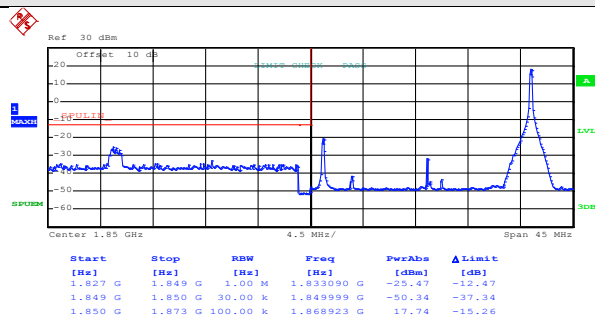


Date: 18.MAY.2017 21:04:31

Highest channel

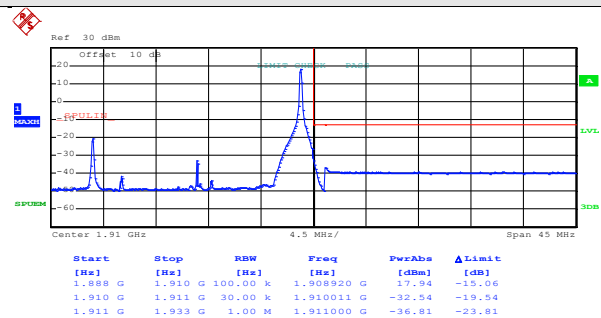
Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 99)



Date: 18.MAY.2017 21:02:40

Lowest channel

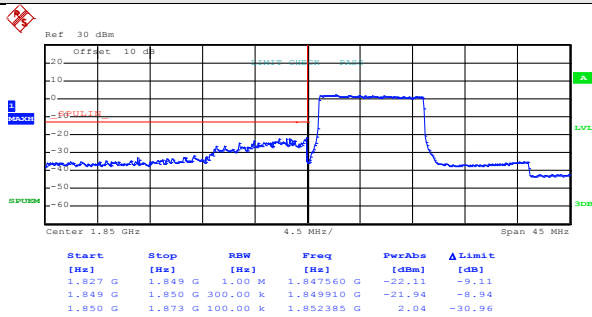


Date: 18.MAY.2017 21:04:50

Highest channel

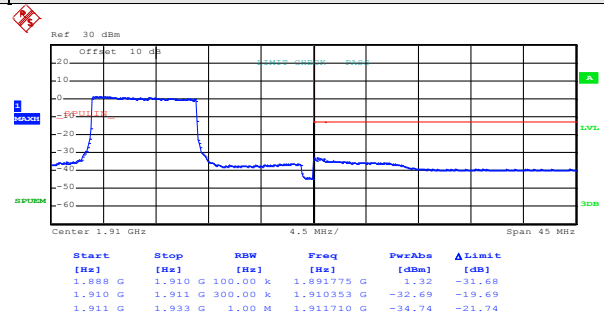
Test Mode:

LTE band 2(QPSK RB Size 50 & RB Offset 0)



Date: 18.MAY.2017 21:03:10

Lowest channel

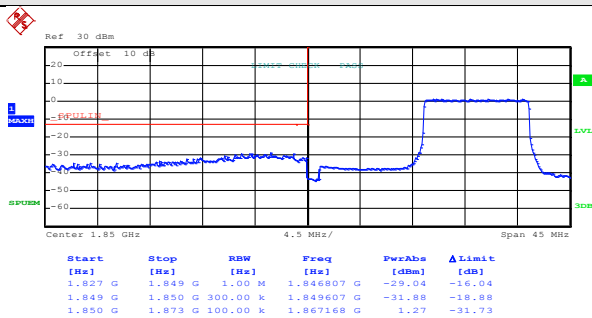


Date: 18.MAY.2017 21:05:21

Highest channel

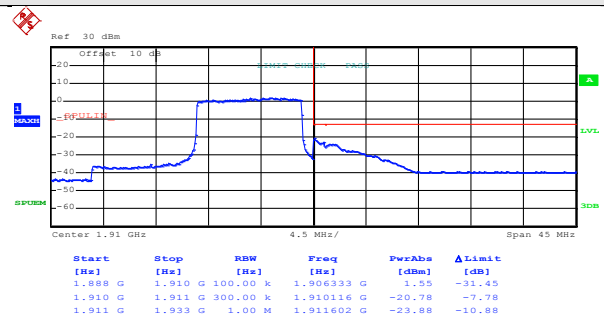
Test Mode:

LTE band 2(QPSK RB Size 50 & RB Offset 49)



Date: 18.MAY.2017 21:03:31

Lowest channel

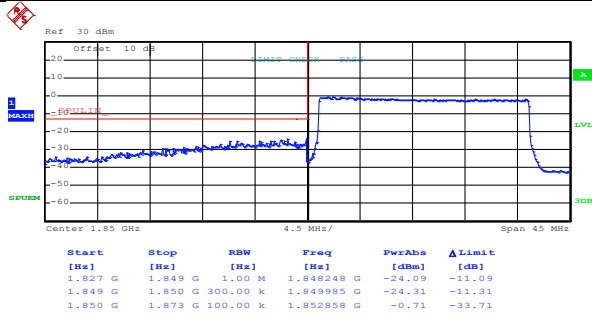


Date: 18.MAY.2017 21:05:45

Highest channel

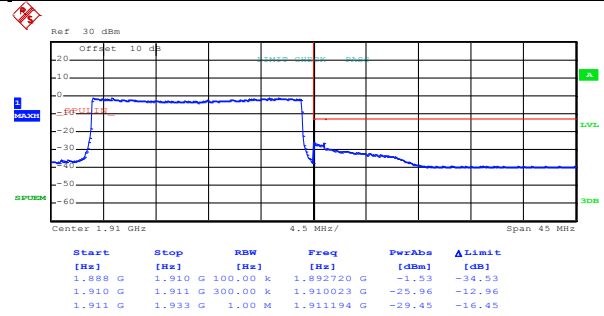
Test Mode:

LTE band 2(QPSK RB Size 100 & RB Offset 0)



Date: 18.MAY.2017 21:03:52

Lowest channel

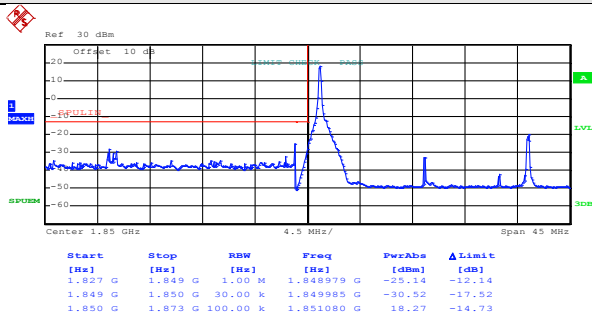


Date: 18.MAY.2017 21:06:09

Highest channel

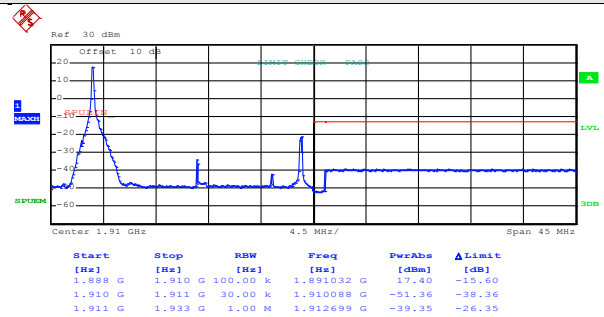
Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 0)



Date: 18.MAY.2017 21:02:28

Lowest channel

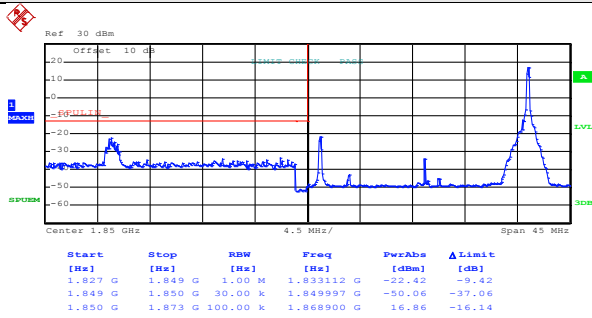


Date: 18.MAY.2017 21:04:39

Highest channel

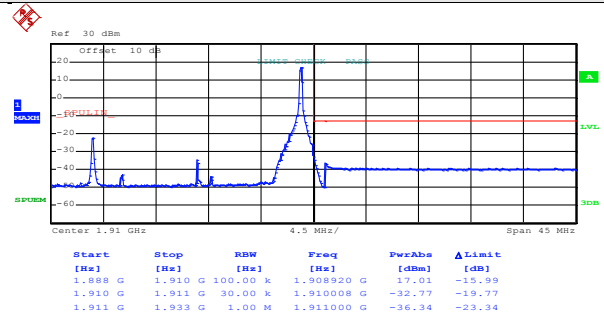
Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 99)



Date: 18.MAY.2017 21:02:49

Lowest channel

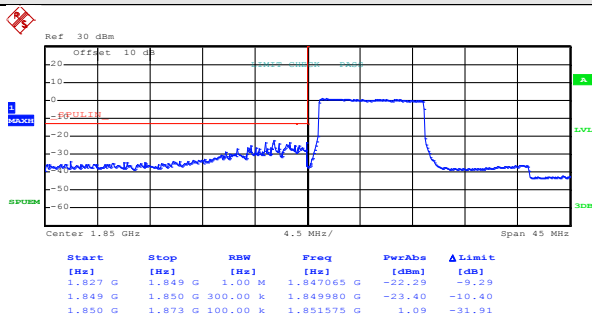


Date: 18.MAY.2017 21:05:01

Highest channel

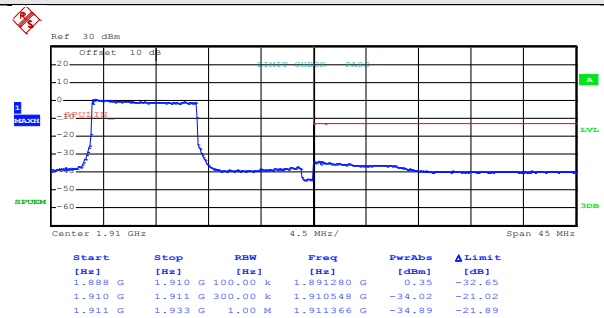
Test Mode:

LTE band 2(16QAM RB Size 50 & RB Offset 0)



Date: 18.MAY.2017 21:03:18

Lowest channel

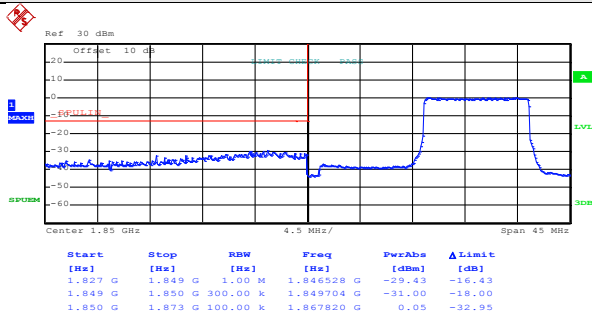


Date: 18.MAY.2017 21:05:31

Highest channel

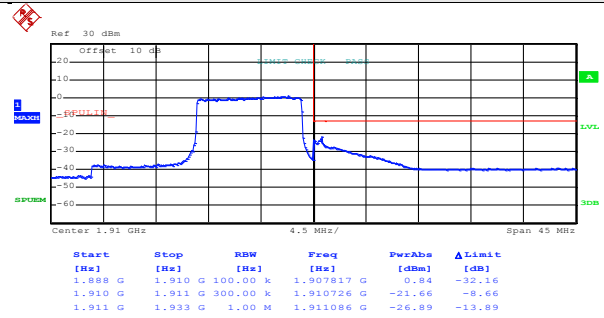
Test Mode:

LTE band 2(16QAM RB Size 50 & RB Offset 49)



Date: 18.MAY.2017 21:03:40

Lowest channel

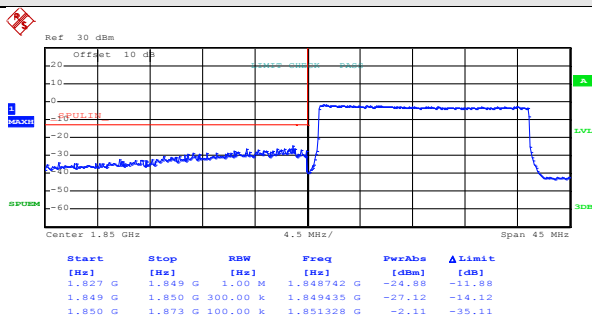


Date: 18.MAY.2017 21:05:55

Highest channel

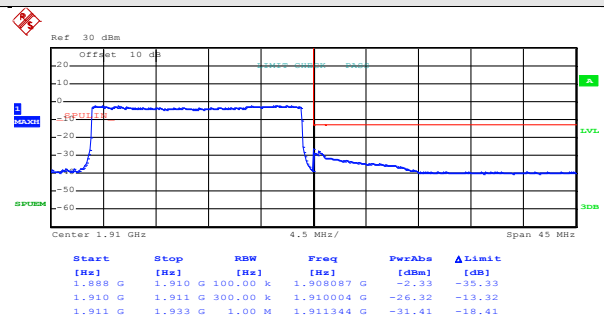
Test Mode:

LTE band 2(16QAM RB Size 100 & RB Offset 0)



Date: 18.MAY.2017 21:04:00

Lowest channel



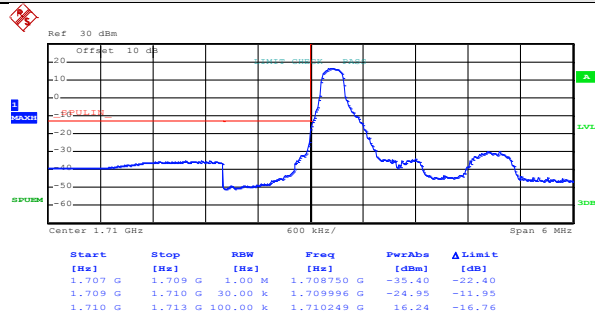
Date: 18.MAY.2017 21:06:18

Highest channel

LTE band 4 part:1.4MHz:

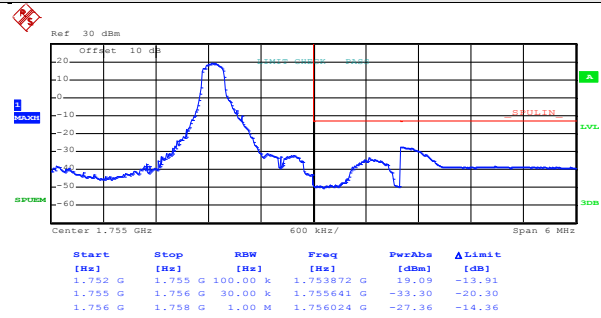
Test Mode:

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



Date: 18.MAY.2017 21:17:50

Lowest channel

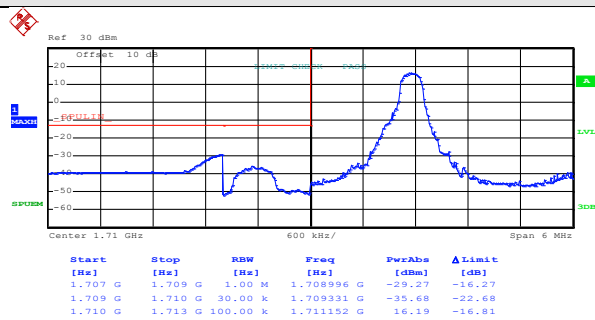


Date: 18.MAY.2017 21:19:59

Highest channel

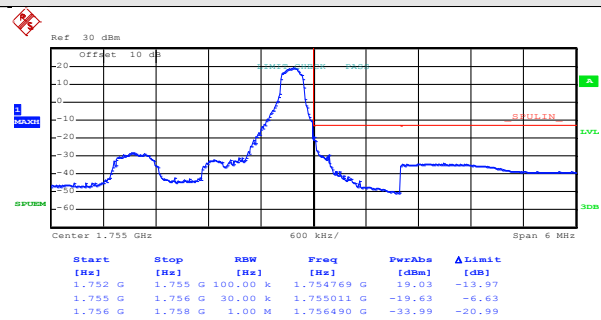
Test Mode:

LTE band 4(QPSK RB Size 1 & RB Offset 5)



Date: 18.MAY.2017 21:18:24

Lowest channel

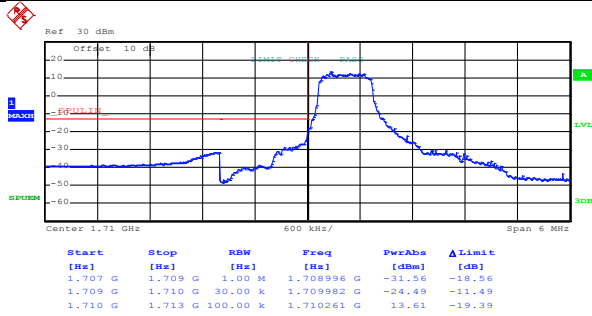


Date: 18.MAY.2017 21:20:16

Highest channel

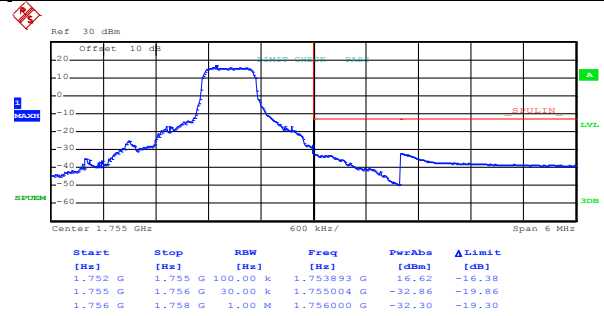
Test Mode:

LTE band 4(QPSK RB Size 3 & RB Offset 0)



Date: 18.MAY.2017 21:18:47

Lowest channel

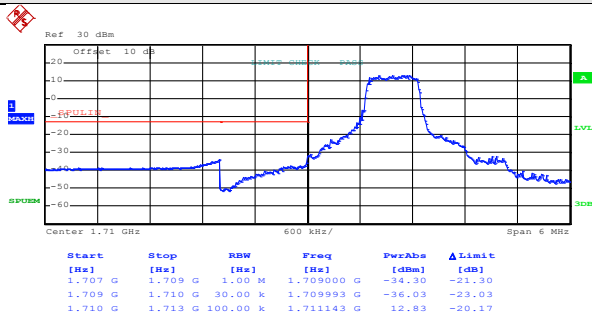


Date: 18.MAY.2017 21:20:52

Highest channel

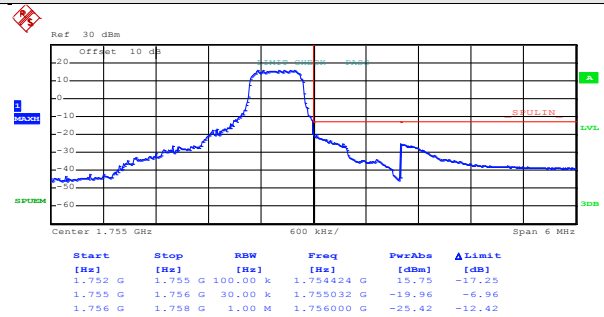
Test Mode:

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



Date: 18.MAY.2017 21:19:08

Lowest channel

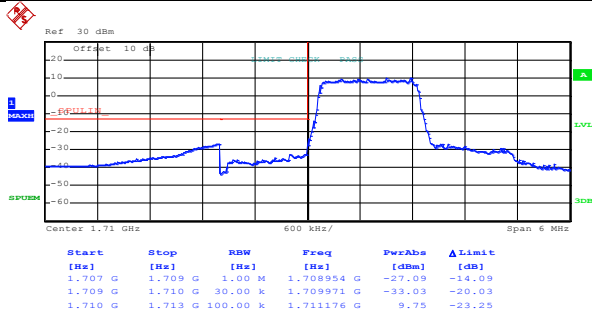


Date: 18.MAY.2017 21:21:27

Highest channel

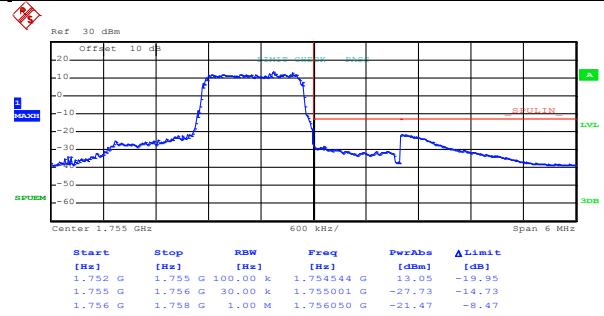
Test Mode:

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



Date: 18.MAY.2017 21:19:30

Lowest channel

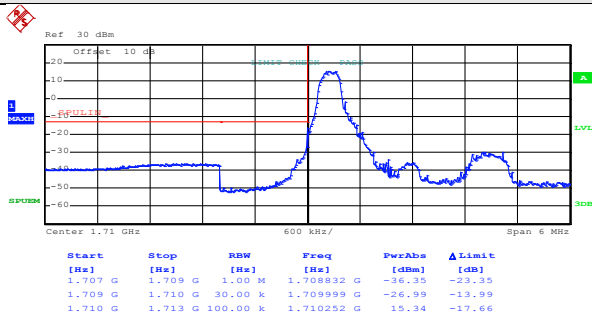


Date: 18.MAY.2017 21:22:07

Highest channel

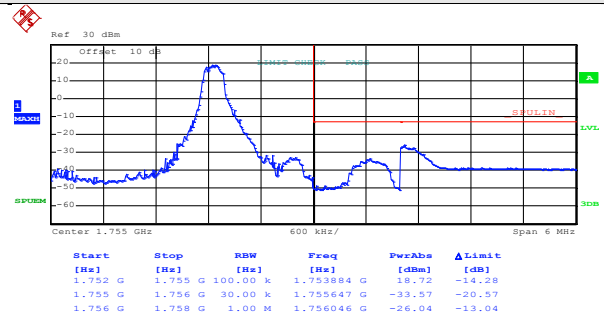
Test Mode:

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



Date: 18.MAY.2017 21:18:10

Lowest channel

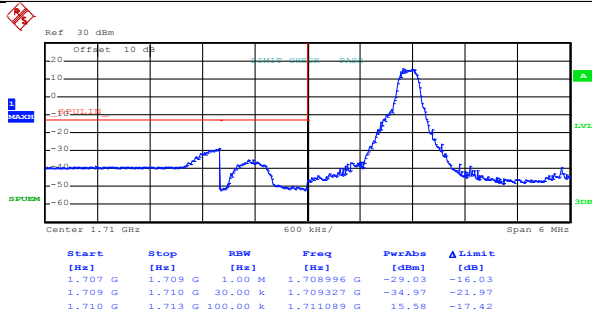


Date: 18.MAY.2017 21:20:06

Highest channel

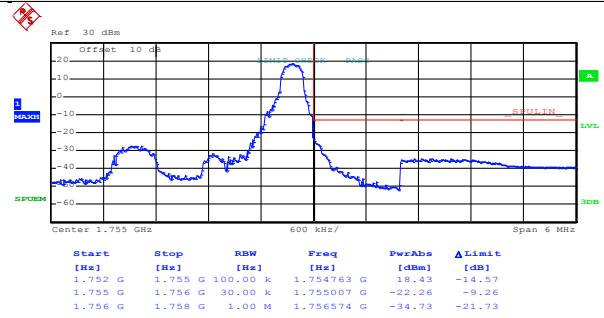
Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 5)



Date: 18.MAY.2017 21:18:34

Lowest channel

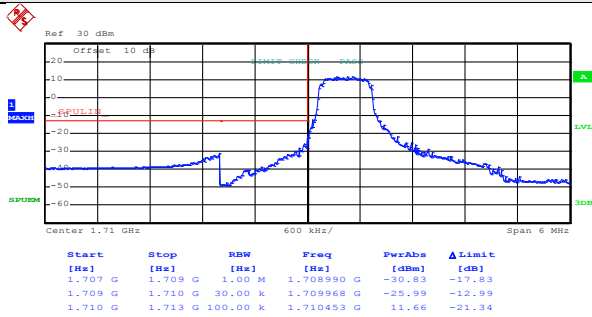


Date: 18.MAY.2017 21:20:24

Highest channel

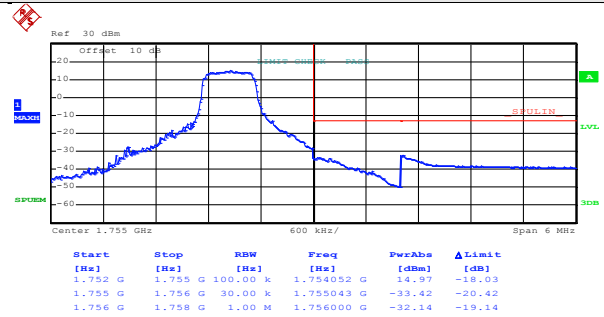
Test Mode:

LTE band 4(16QAM RB Size 3 & RB Offset 0)



Date: 18.MAY.2017 21:18:56

Lowest channel

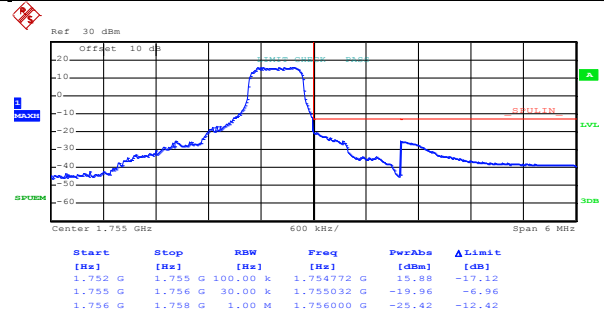
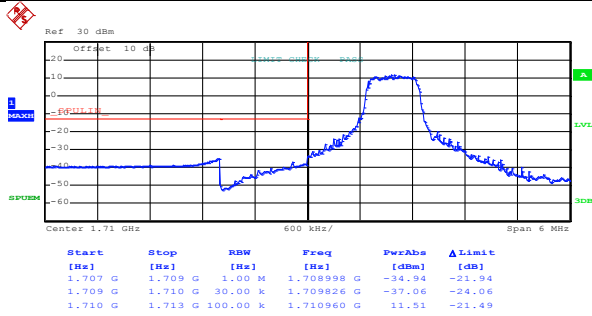


Date: 18.MAY.2017 21:21:09

Highest channel

Test Mode:

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



Date: 18.MAY.2017 21:19:16

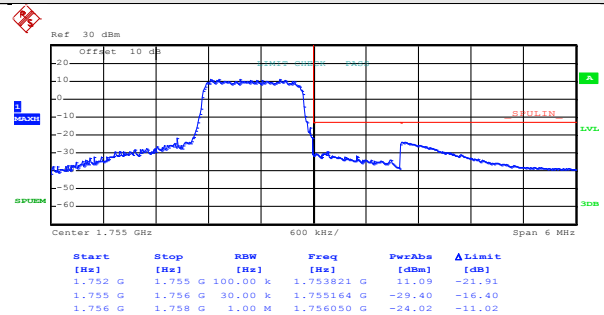
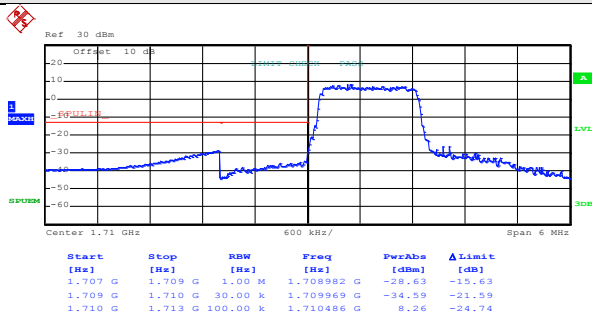
Date: 18.MAY.2017 21:21:39

Lowest channel

Highest channel

Test Mode:

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



Date: 18.MAY.2017 21:19:37

Date: 18.MAY.2017 21:22:14

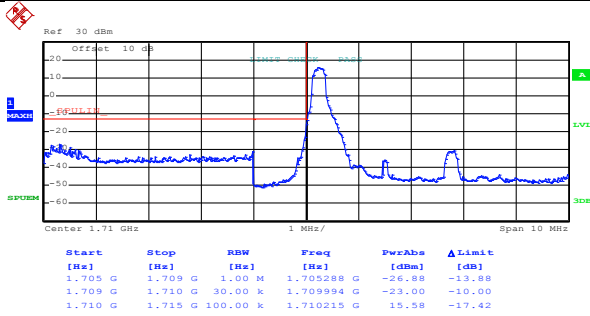
Lowest channel

Highest channel

3MHz:

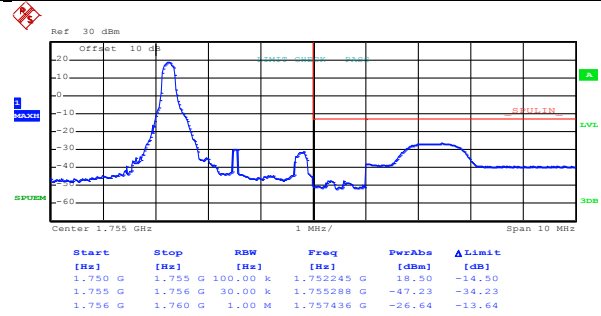
Test Mode:

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



Date: 18.MAY.2017 21:27:22

Lowest channel

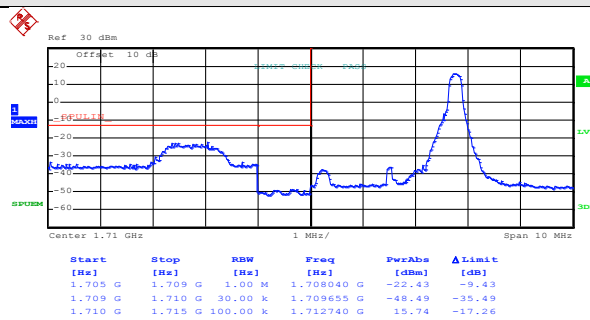


Date: 18.MAY.2017 21:32:39

Highest channel

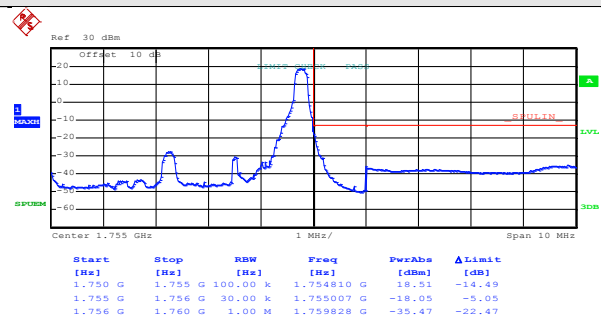
Test Mode:

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



Date: 18.MAY.2017 21:27:46

Lowest channel

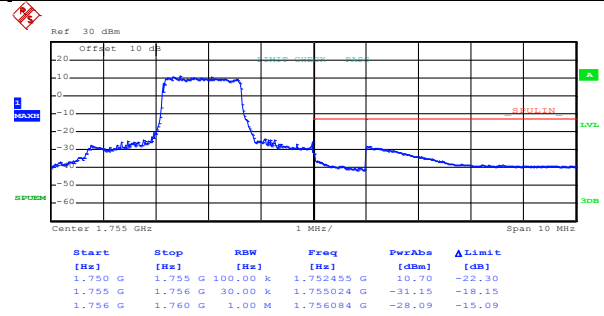
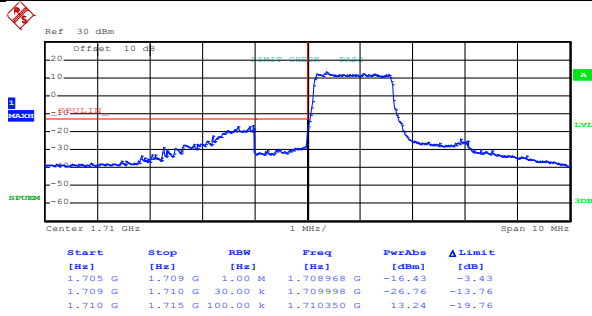


Date: 18.MAY.2017 21:33:06

Highest channel

Test Mode:

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



Date: 14.MAY.2017 22:07:20

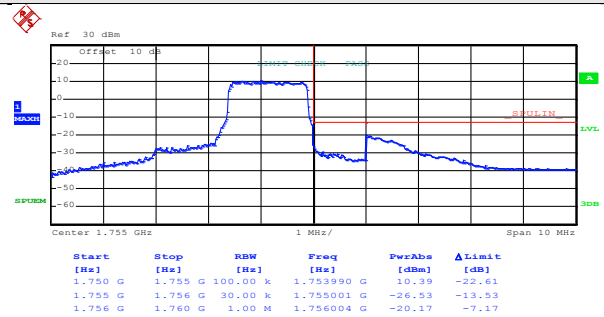
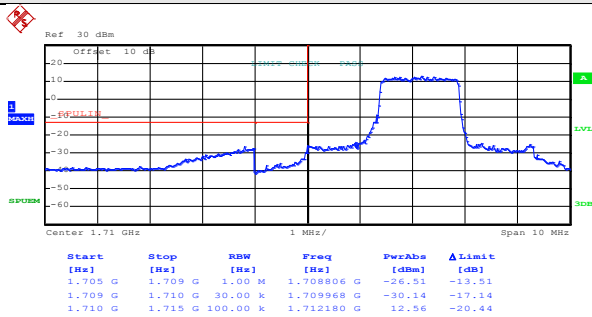
Date: 18.MAY.2017 21:33:31

Lowest channel

Highest channel

Test Mode:

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



Date: 14.MAY.2017 22:07:37

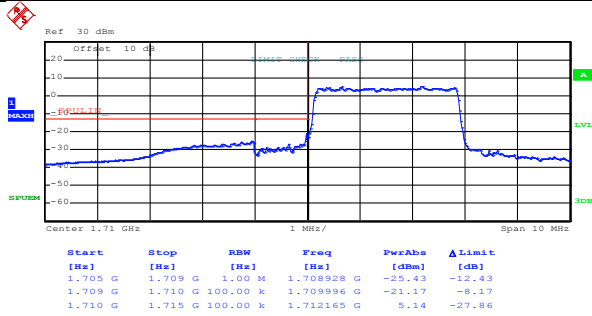
Date: 18.MAY.2017 21:33:53

Lowest channel

Highest channel

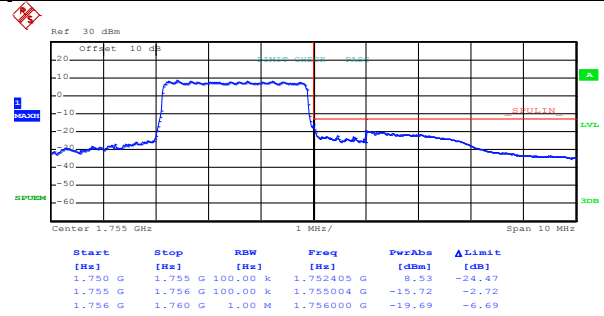
Test Mode:

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



Date: 18.MAY.2017 21:28:29

Lowest channel

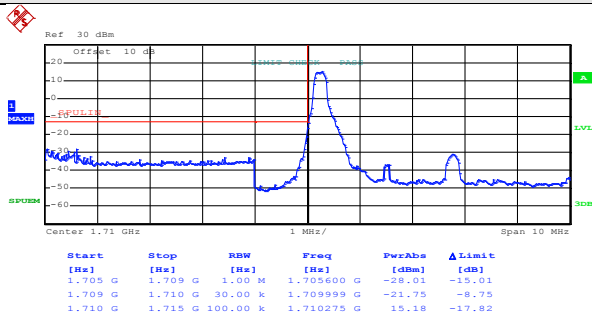


Date: 18.MAY.2017 21:36:39

Highest channel

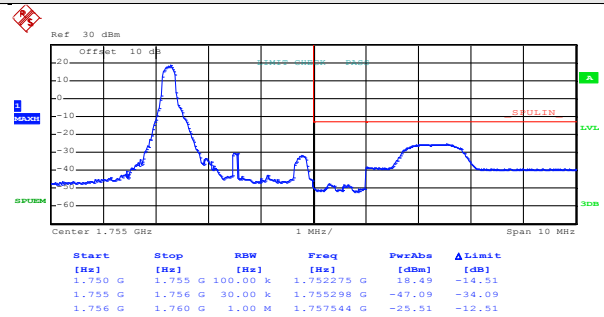
Test Mode:

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



Date: 18.MAY.2017 21:27:32

Lowest channel

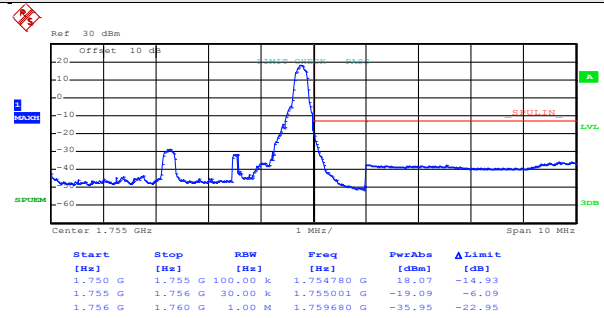
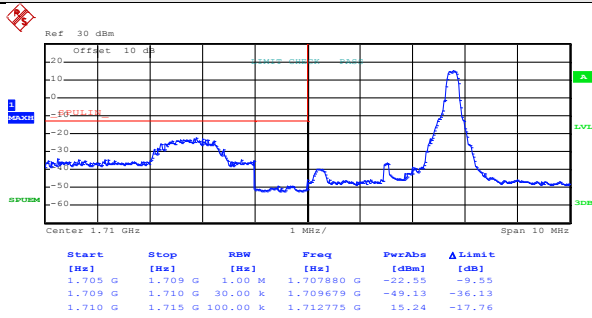


Date: 18.MAY.2017 21:32:55

Highest channel

Test Mode:

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



Date: 18.MAY.2017 21:27:54

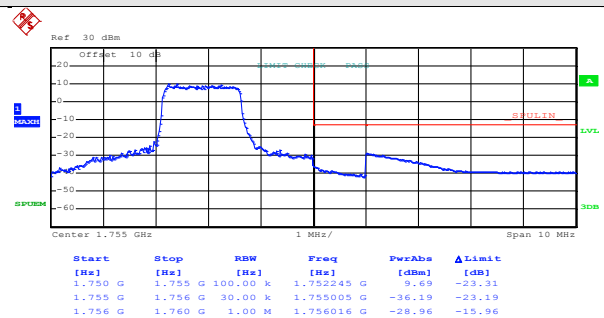
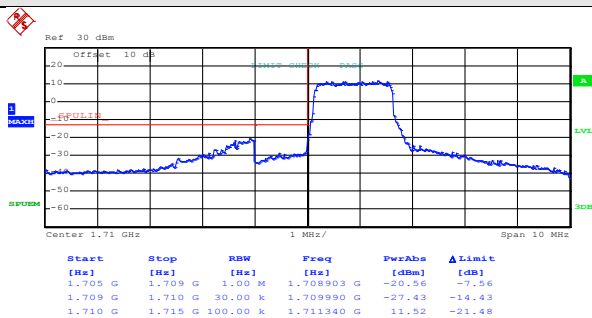
Date: 18.MAY.2017 21:33:17

Lowest channel

Highest channel

Test Mode:

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



Date: 14.MAY.2017 22:07:27

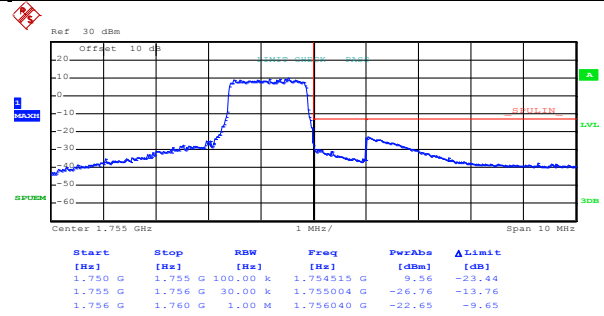
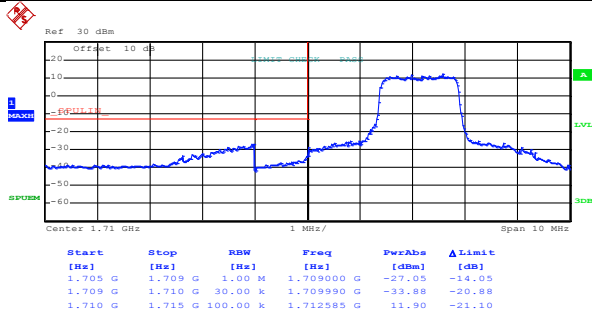
Date: 18.MAY.2017 21:33:40

Lowest channel

Highest channel

Test Mode:

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



Date: 14.MAY.2017 22:07:45

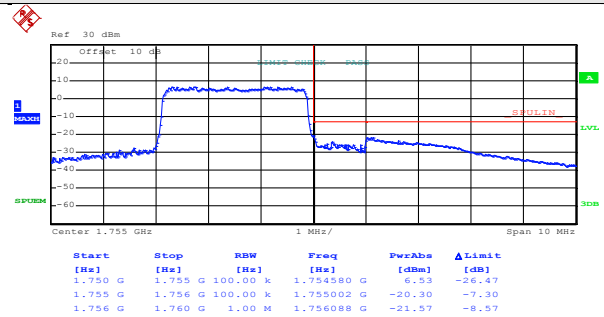
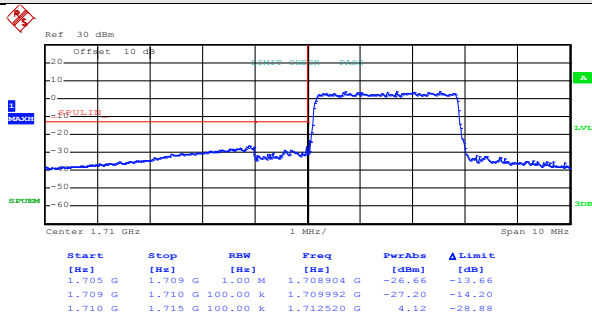
Date: 18.MAY.2017 21:34:02

Lowest channel

Highest channel

Test Mode:

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



Date: 18.MAY.2017 21:28:36

Date: 18.MAY.2017 21:36:50

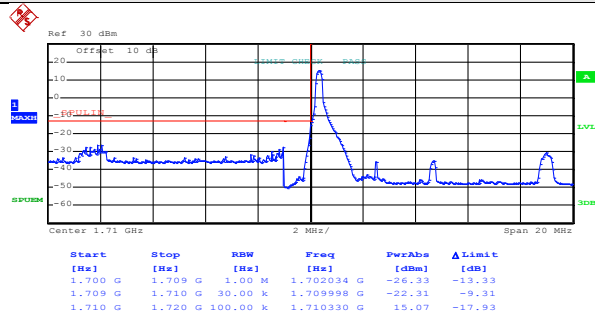
Lowest channel

Highest channel

5MHz:

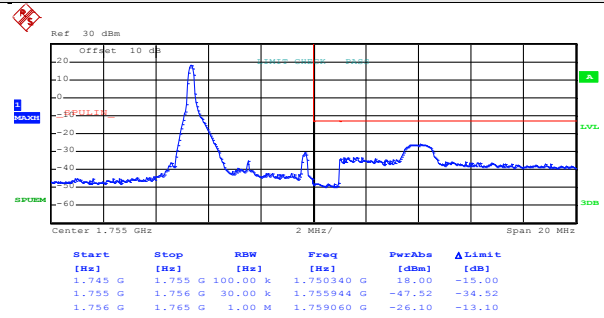
Test Mode:

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



Date: 18.MAY.2017 21:39:36

Lowest channel

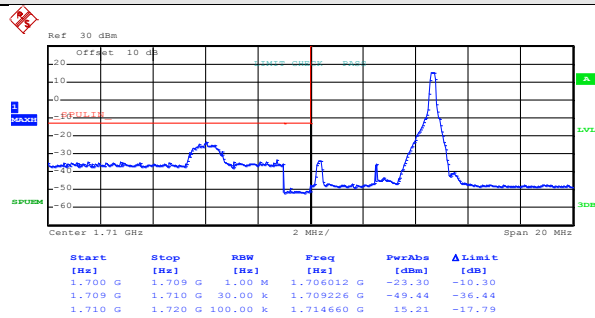


Date: 18.MAY.2017 21:41:51

Highest channel

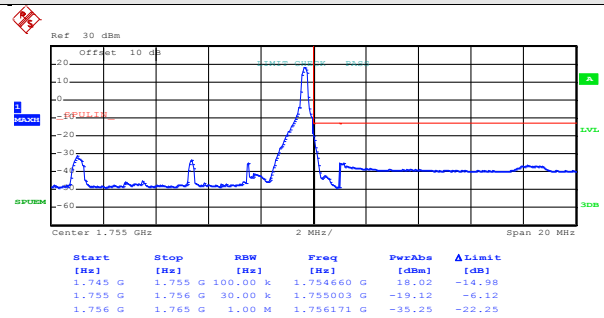
Test Mode:

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



Date: 18.MAY.2017 21:40:02

Lowest channel

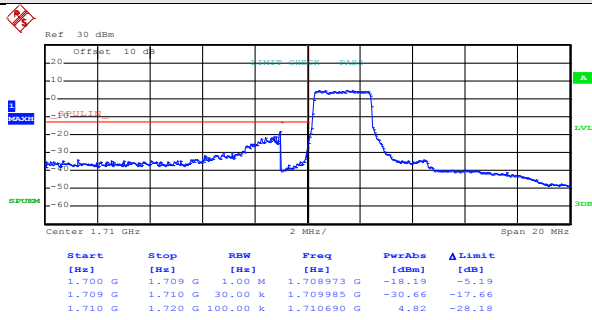


Date: 18.MAY.2017 21:42:11

Highest channel

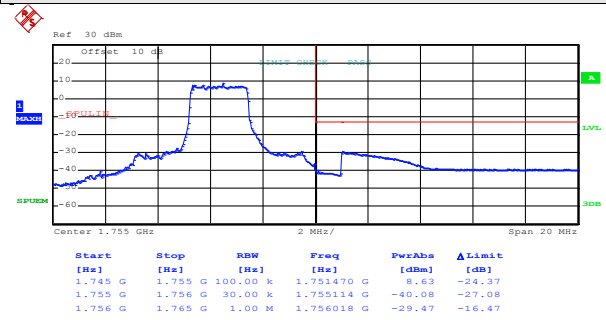
Test Mode:

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



Date: 18.MAY.2017 21:40:24

Lowest channel

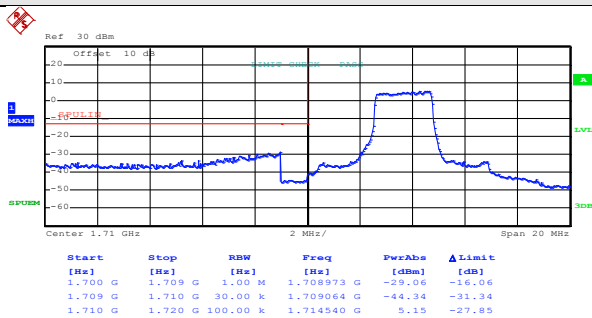


Date: 18.MAY.2017 21:42:33

Highest channel

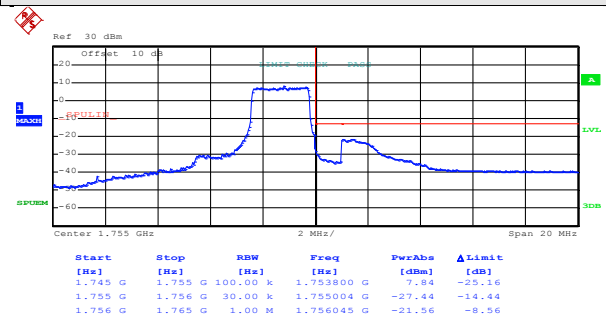
Test Mode:

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



Date: 18.MAY.2017 21:40:44

Lowest channel

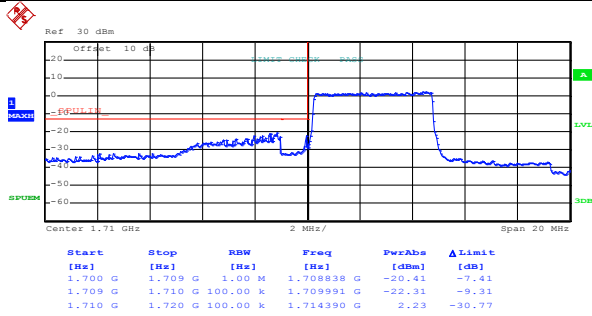


Date: 18.MAY.2017 21:42:56

Highest channel

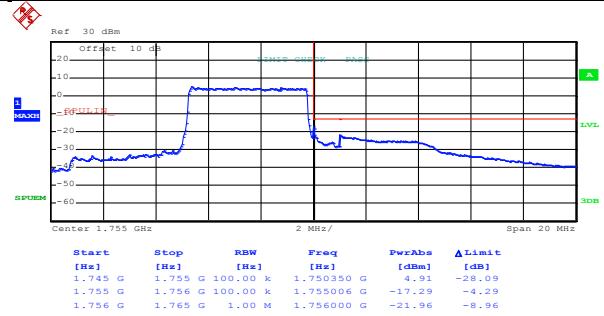
Test Mode:

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



Date: 18.MAY.2017 21:41:15

Lowest channel

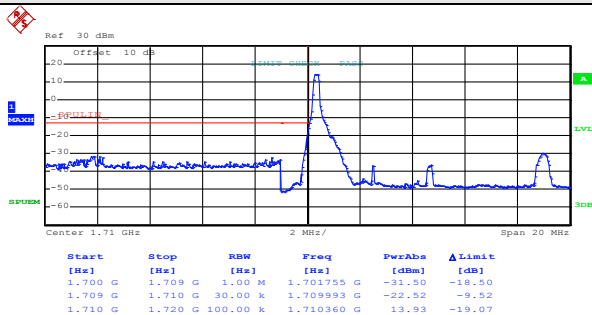


Date: 18.MAY.2017 21:43:29

Highest channel

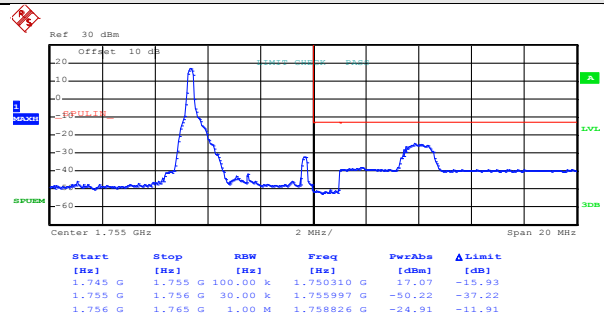
Test Mode:

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



Date: 18.MAY.2017 21:39:47

Lowest channel

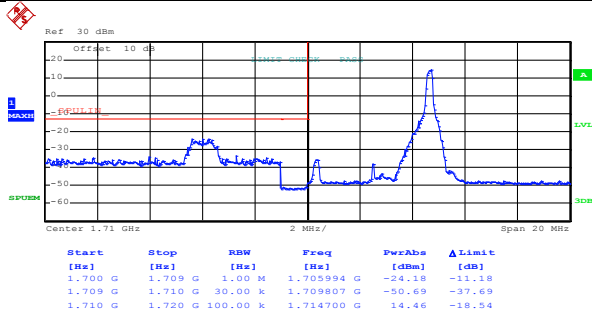


Date: 18.MAY.2017 21:42:00

Highest channel

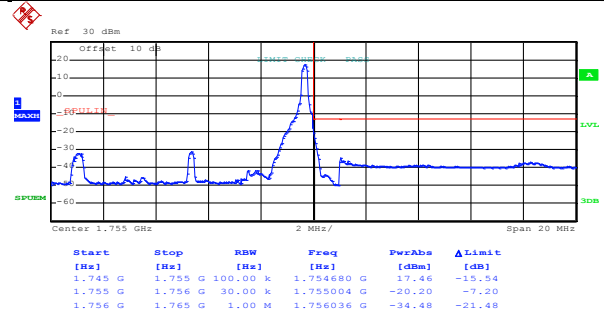
Test Mode:

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



Date: 18.MAY.2017 21:40:11

Lowest channel

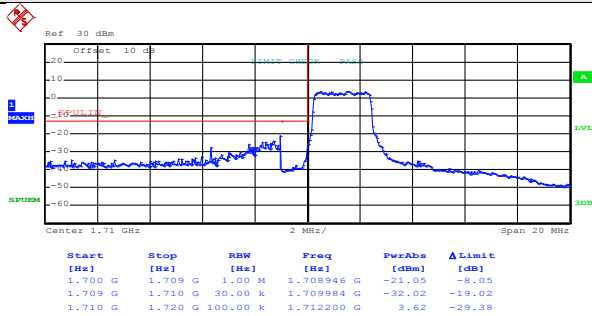


Date: 18.MAY.2017 21:42:20

Highest channel

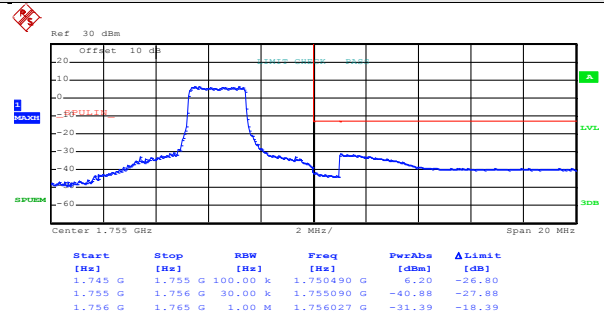
Test Mode:

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



Date: 18.MAY.2017 21:40:32

Lowest channel

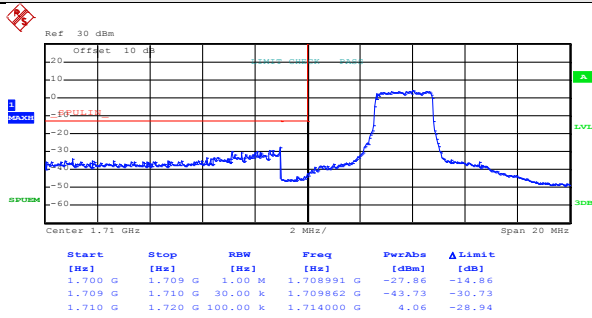


Date: 18.MAY.2017 21:42:44

Highest channel

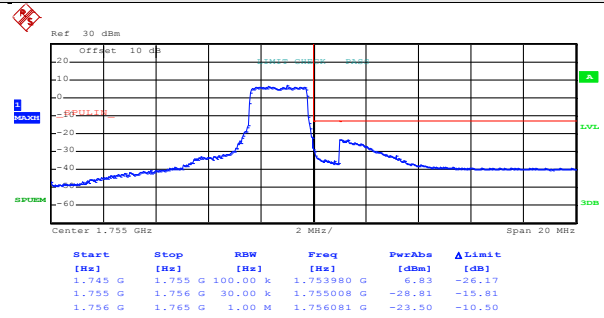
Test Mode:

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



Date: 18.MAY.2017 21:40:52

Lowest channel

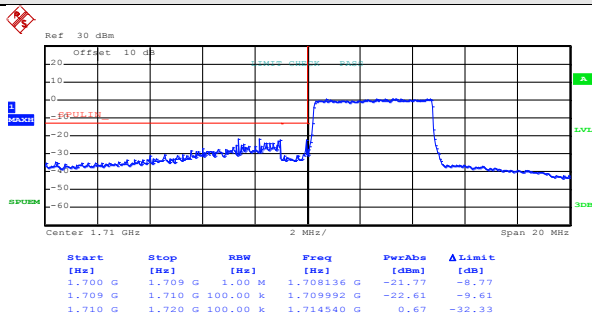


Date: 18.MAY.2017 21:43:05

Highest channel

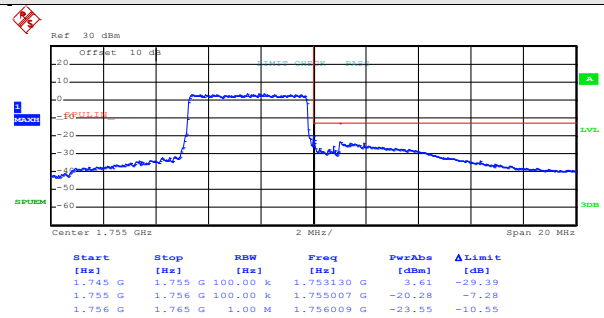
Test Mode:

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



Date: 18.MAY.2017 21:41:22

Lowest channel



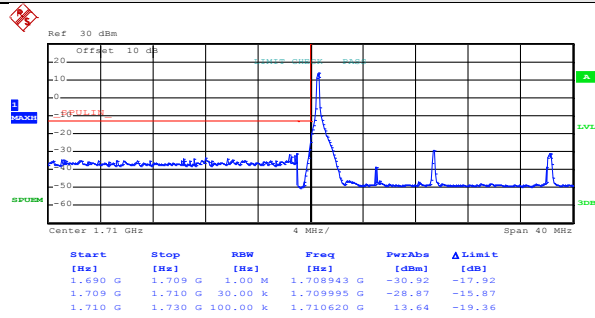
Date: 18.MAY.2017 21:43:38

Highest channel

10MHz:

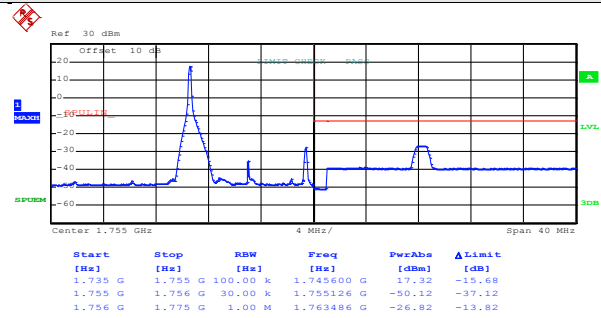
Test Mode:

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



Date: 18.MAY.2017 21:48:46

Lowest channel

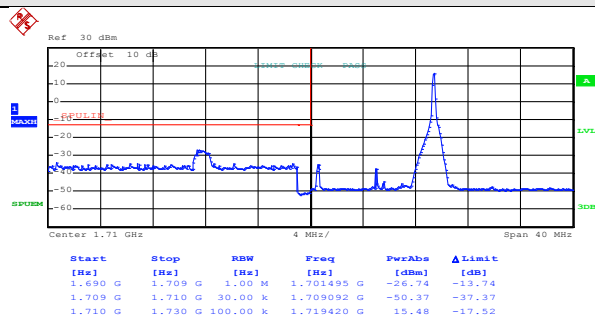


Date: 18.MAY.2017 22:00:11

Highest channel

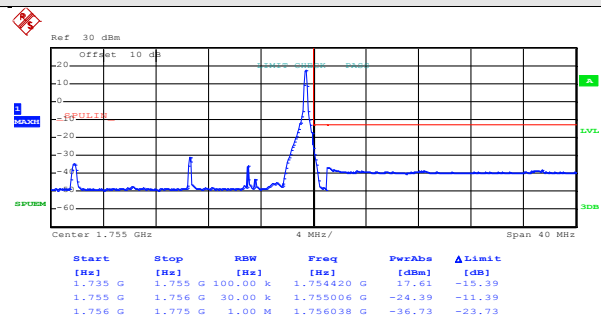
Test Mode:

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



Date: 18.MAY.2017 21:49:08

Lowest channel

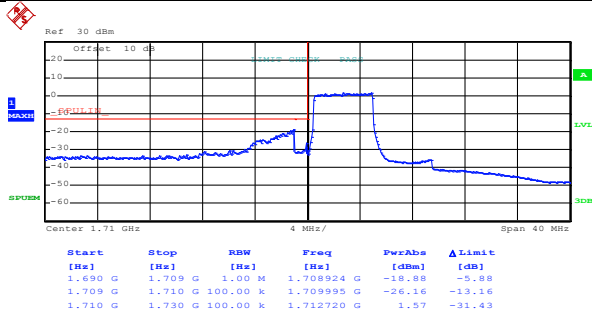


Date: 18.MAY.2017 22:00:31

Highest channel

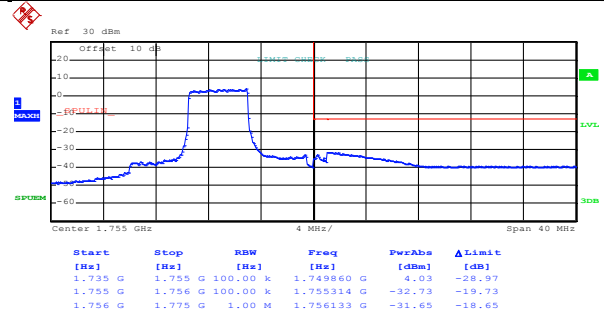
Test Mode:

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



Date: 18.MAY.2017 21:53:28

Lowest channel

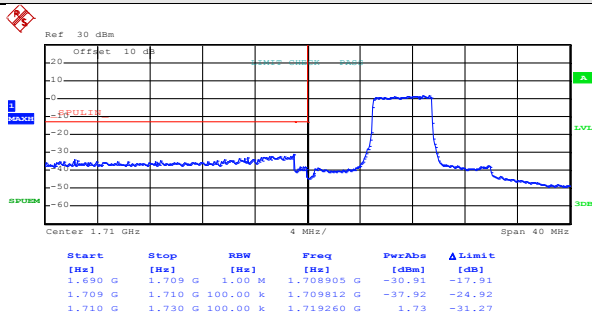


Date: 18.MAY.2017 22:01:09

Highest channel

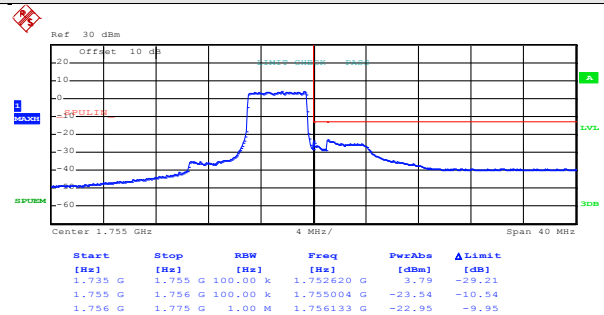
Test Mode:

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



Date: 18.MAY.2017 21:53:53

Lowest channel

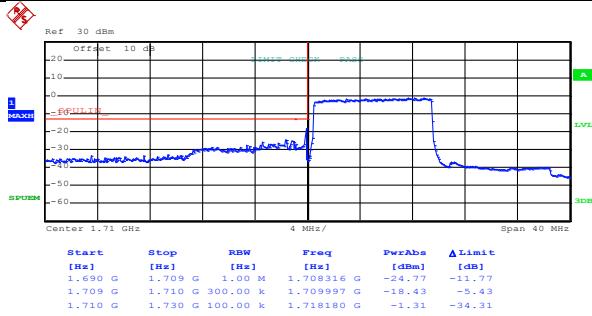


Date: 18.MAY.2017 22:01:33

Highest channel

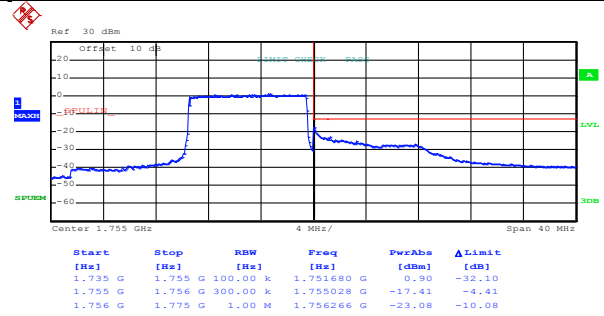
Test Mode:

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



Date: 18.MAY.2017 21:54:29

Lowest channel

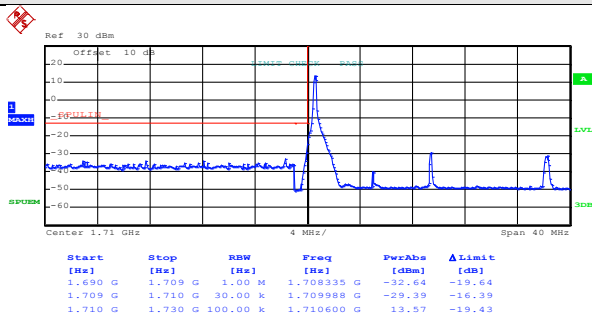


Date: 18.MAY.2017 22:02:21

Highest channel

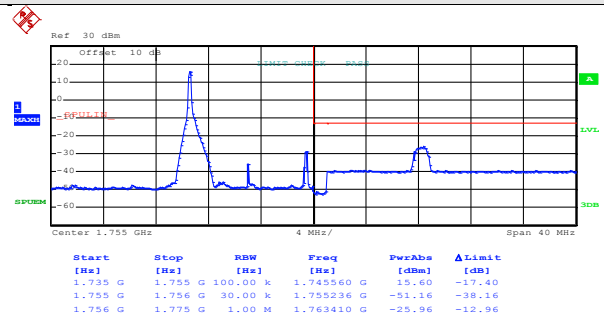
Test Mode:

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



Date: 18.MAY.2017 21:48:55

Lowest channel

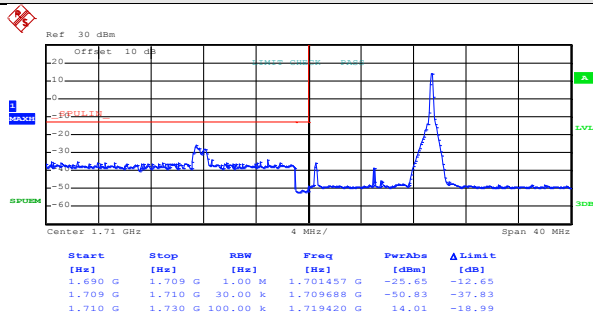


Date: 18.MAY.2017 22:00:20

Highest channel

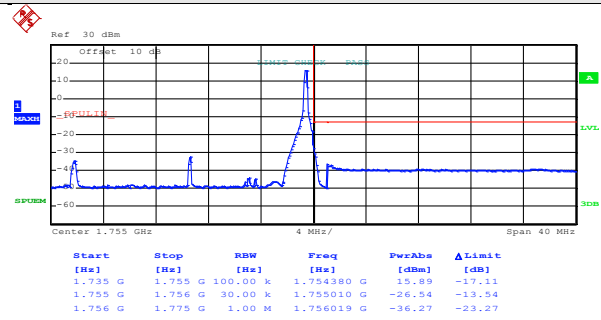
Test Mode:

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



Date: 18.MAY.2017 21:49:18

Lowest channel

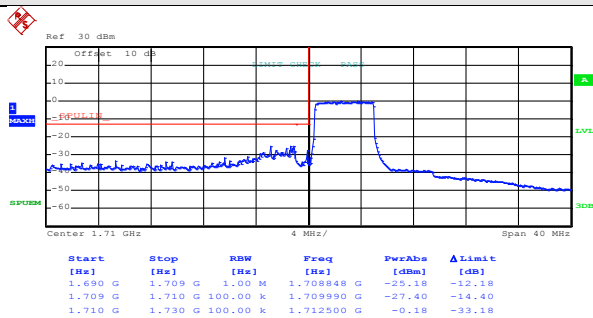


Date: 18.MAY.2017 22:00:40

Highest channel

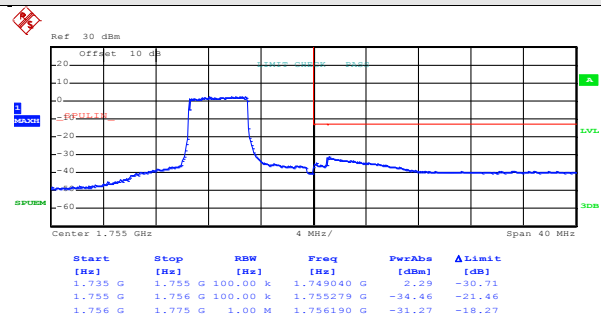
Test Mode:

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



Date: 18.MAY.2017 21:53:37

Lowest channel

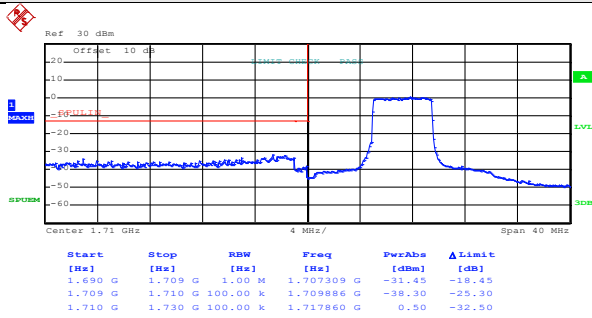


Date: 18.MAY.2017 22:01:19

Highest channel

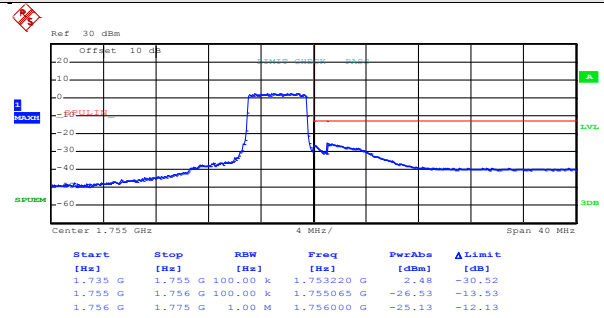
Test Mode:

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



Date: 18.MAY.2017 21:54:03

Lowest channel

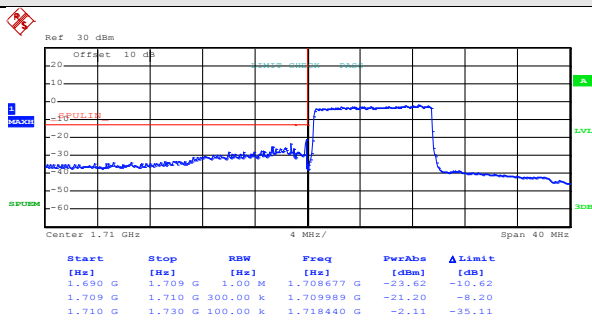


Date: 18.MAY.2017 22:01:42

Highest channel

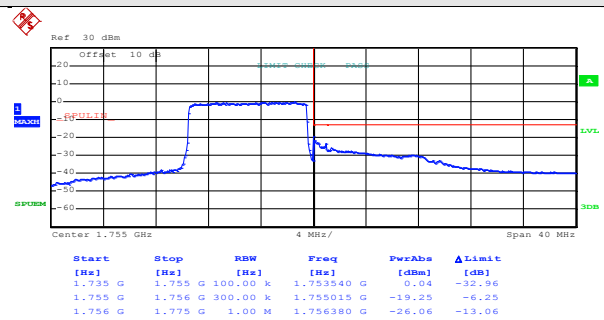
Test Mode:

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



Date: 18.MAY.2017 21:58:42

Lowest channel



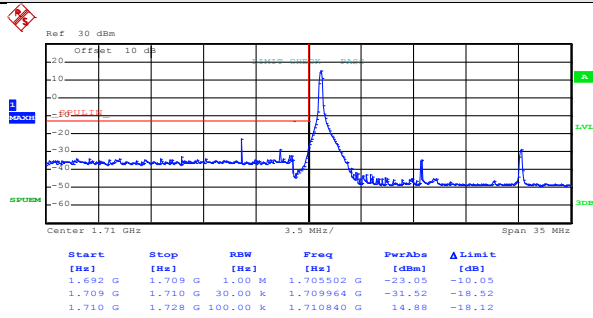
Date: 18.MAY.2017 22:02:31

Highest channel

15MHz:

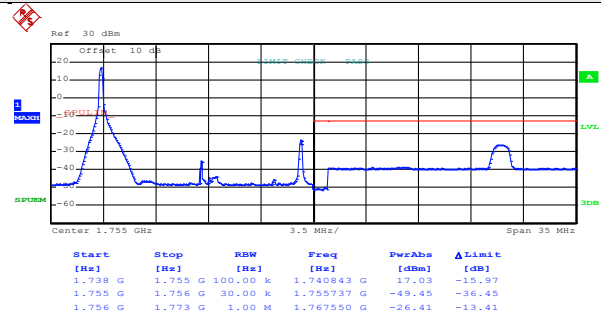
Test Mode:

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



Date: 18.MAY.2017 22:03:27

Lowest channel

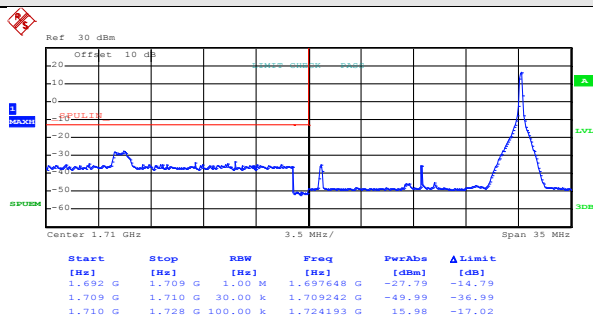


Date: 18.MAY.2017 22:11:35

Highest channel

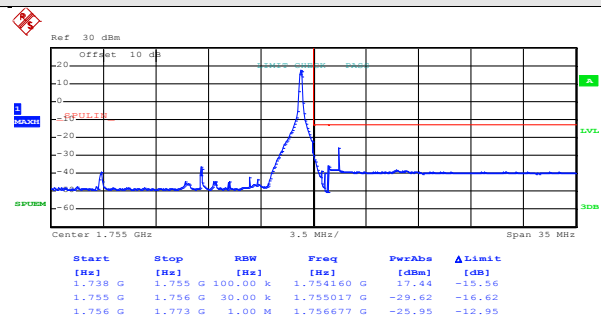
Test Mode:

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



Date: 18.MAY.2017 22:03:48

Lowest channel

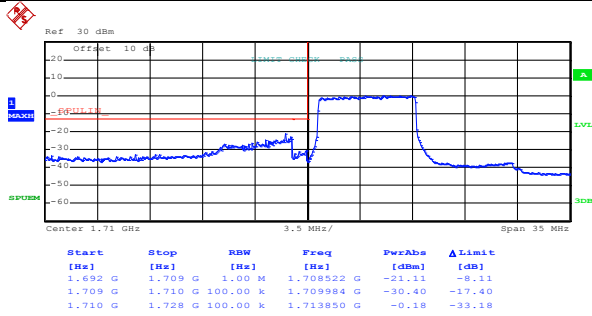


Date: 18.MAY.2017 22:11:56

Highest channel

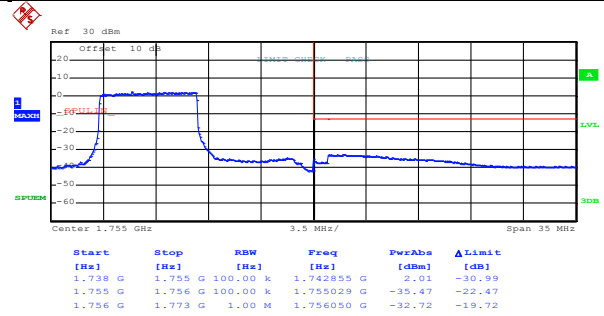
Test Mode:

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



Date: 18.MAY.2017 22:09:34

Lowest channel

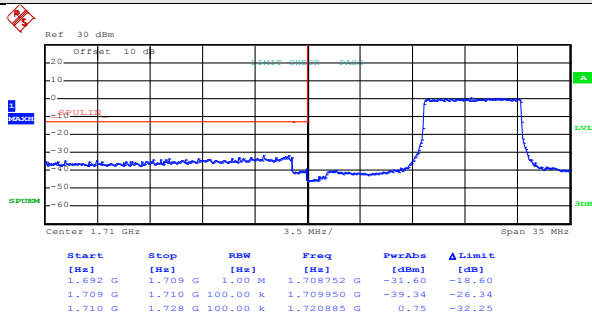


Date: 18.MAY.2017 22:12:29

Highest channel

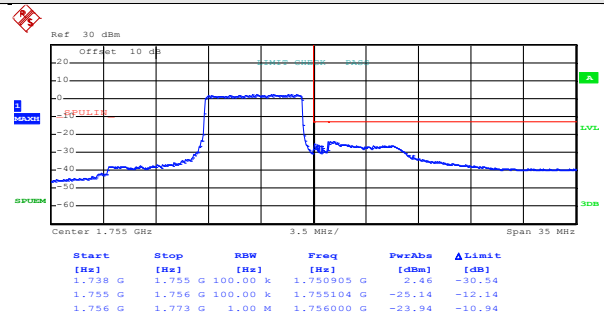
Test Mode:

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



Date: 18.MAY.2017 22:10:20

Lowest channel

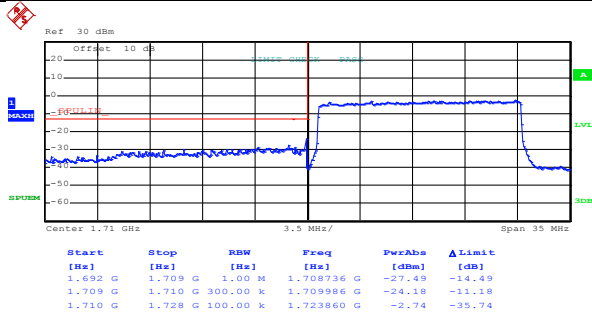


Date: 18.MAY.2017 22:12:52

Highest channel

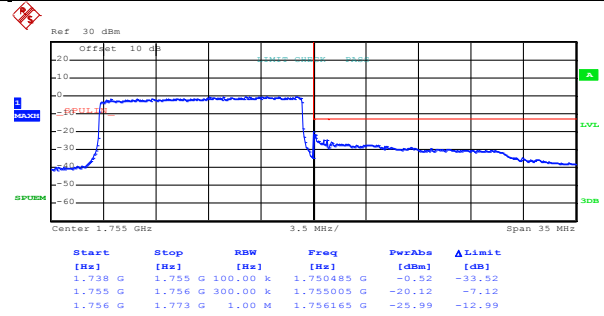
Test Mode:

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



Date: 18.MAY.2017 22:10:46

Lowest channel

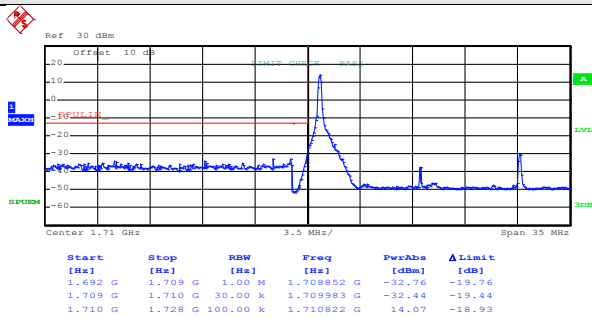


Date: 18.MAY.2017 22:13:48

Highest channel

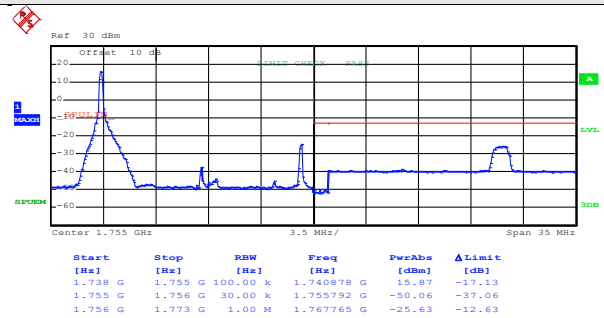
Test Mode:

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



Date: 18.MAY.2017 22:03:36

Lowest channel

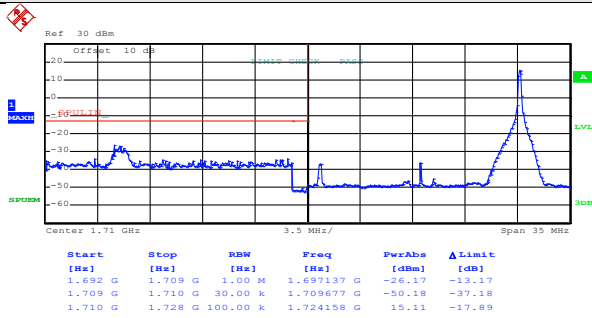


Date: 18.MAY.2017 22:11:46

Highest channel

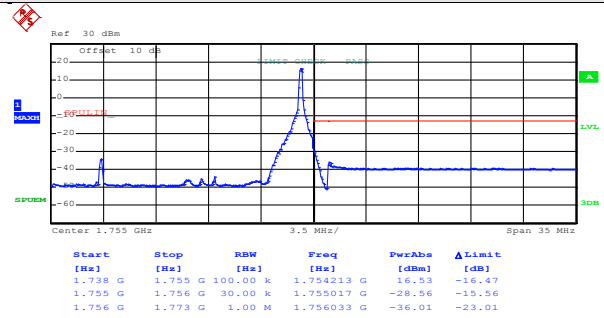
Test Mode:

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



Date: 18.MAY.2017 22:03:57

Lowest channel

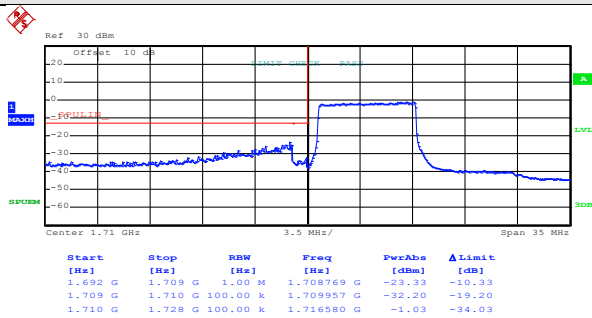


Date: 18.MAY.2017 22:12:09

Highest channel

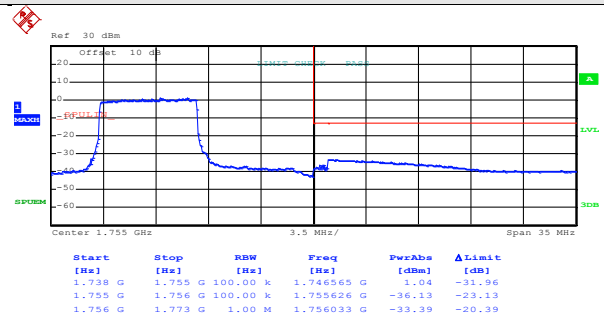
Test Mode:

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



Date: 18.MAY.2017 22:09:55

Lowest channel

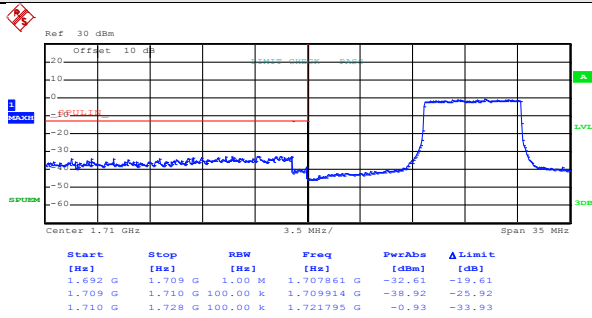


Date: 18.MAY.2017 22:12:37

Highest channel

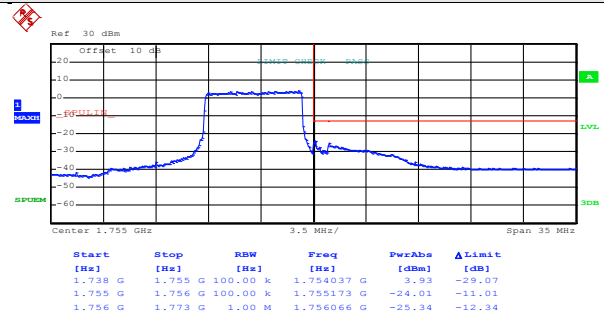
Test Mode:

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



Date: 18.MAY.2017 22:10:31

Lowest channel

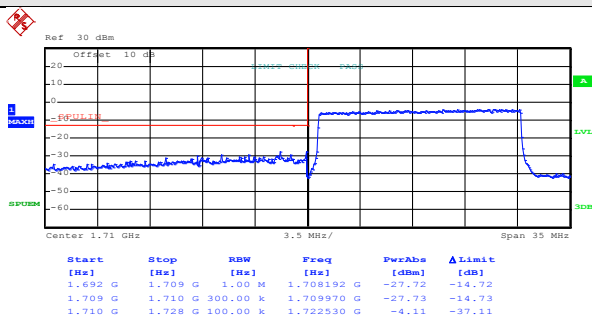


Date: 14.MAY.2017 22:27:56

Highest channel

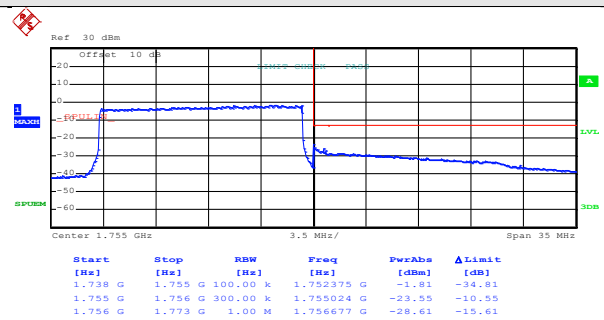
Test Mode:

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



Date: 18.MAY.2017 22:10:53

Lowest channel



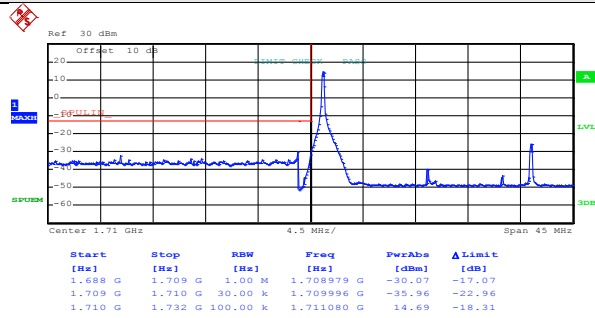
Date: 18.MAY.2017 22:13:56

Highest channel

20MHz:

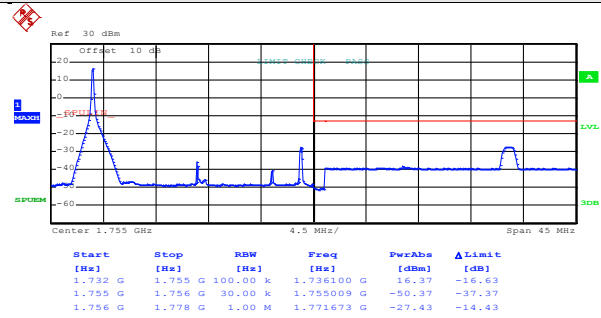
Test Mode:

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



Date: 18.MAY.2017 22:14:51

Lowest channel

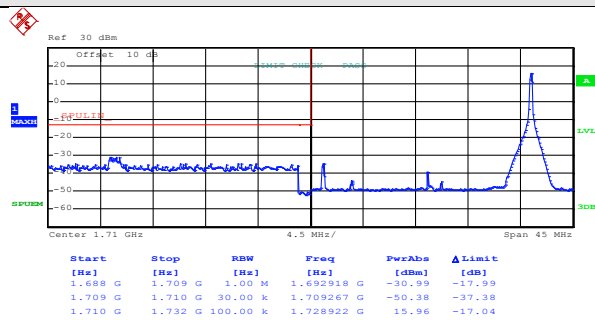


Date: 18.MAY.2017 22:17:23

Highest channel

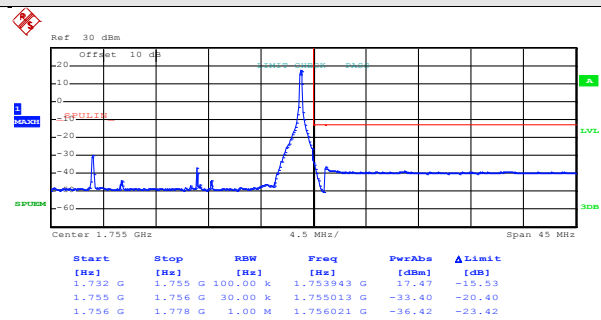
Test Mode:

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



Date: 18.MAY.2017 22:15:10

Lowest channel

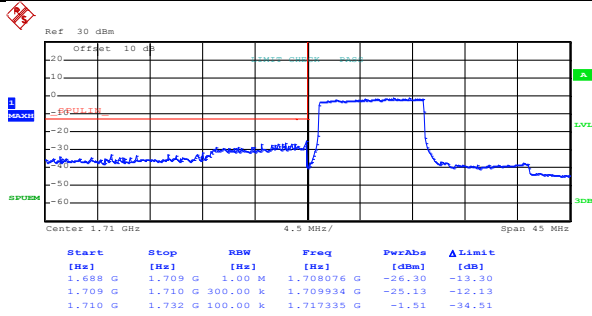


Date: 18.MAY.2017 22:17:47

Highest channel

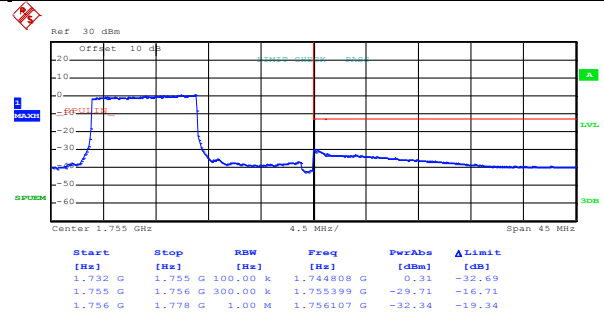
Test Mode:

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



Date: 18.MAY.2017 22:15:36

Lowest channel

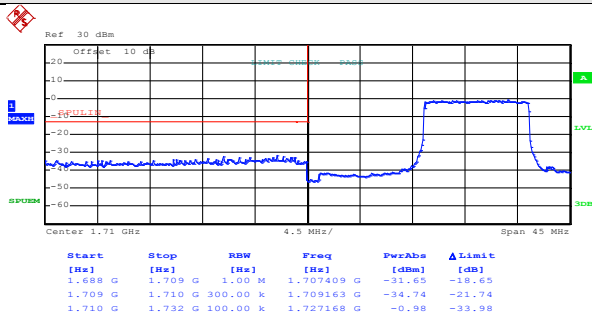


Date: 18.MAY.2017 22:18:23

Highest channel

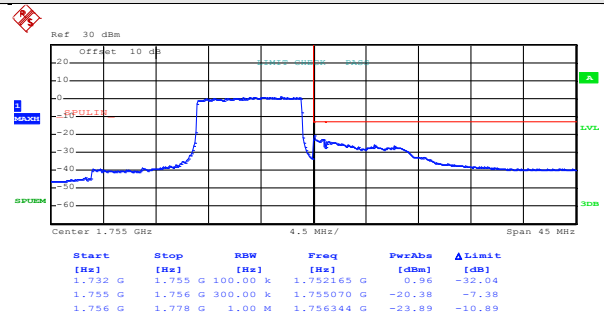
Test Mode:

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



Date: 18.MAY.2017 22:16:14

Lowest channel

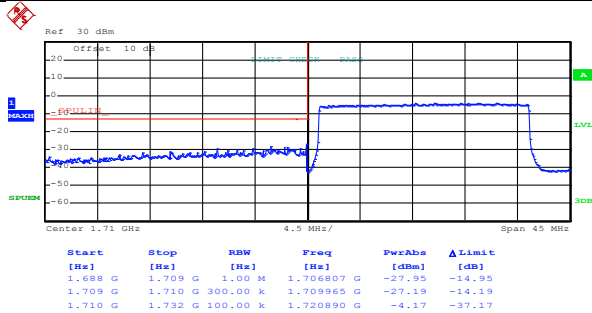


Date: 18.MAY.2017 22:18:48

Highest channel

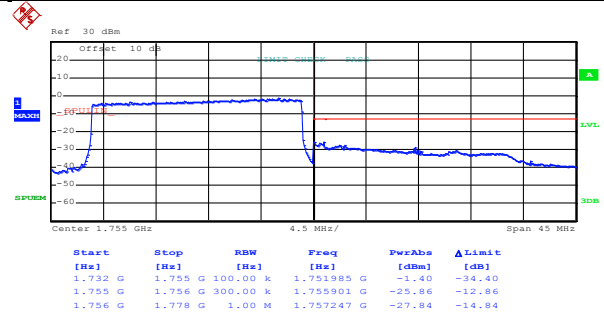
Test Mode:

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



Date: 18.MAY.2017 22:16:36

Lowest channel

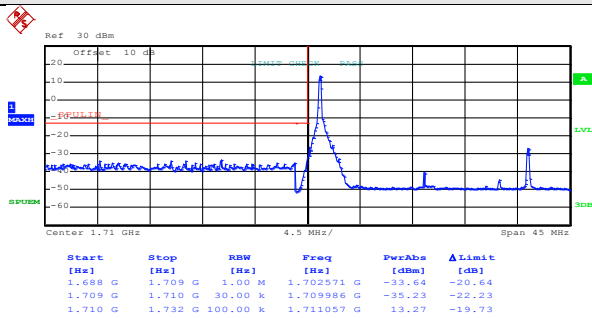


Date: 18.MAY.2017 22:19:11

Highest channel

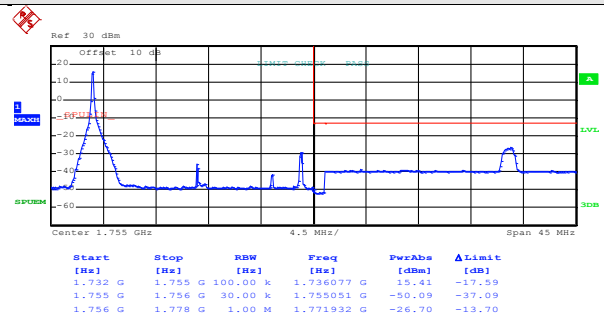
Test Mode:

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



Date: 18.MAY.2017 22:14:59

Lowest channel

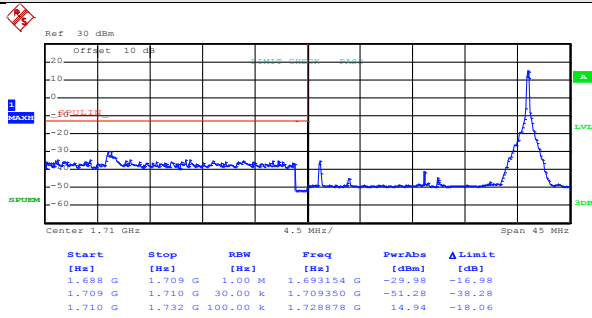


Date: 18.MAY.2017 22:17:32

Highest channel

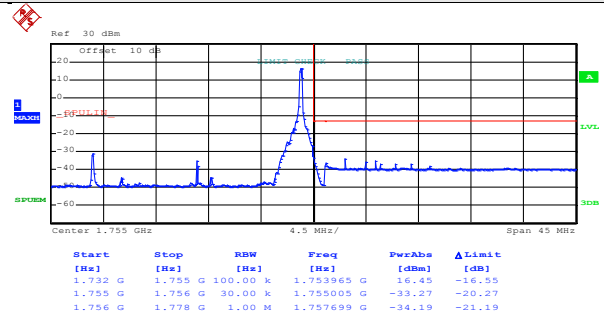
Test Mode:

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



Date: 18.MAY.2017 22:15:18

Lowest channel

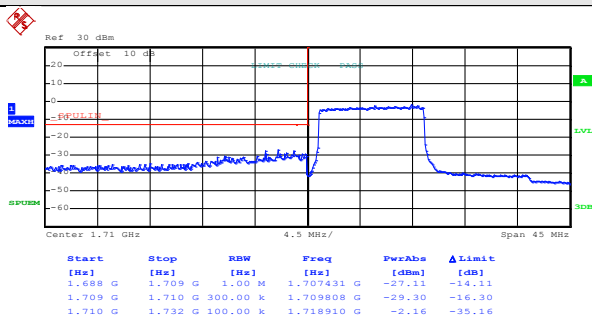


Date: 18.MAY.2017 22:17:57

Highest channel

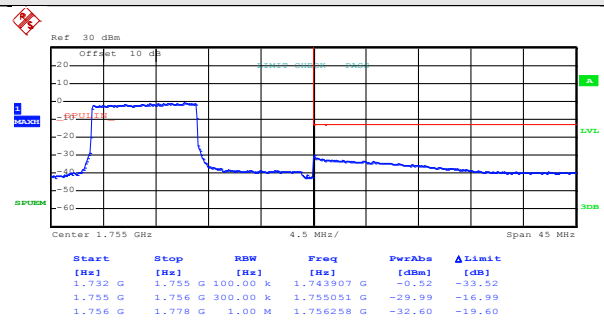
Test Mode:

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



Date: 18.MAY.2017 22:15:47

Lowest channel

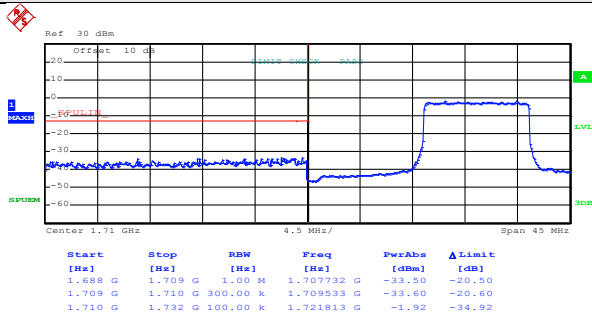


Date: 18.MAY.2017 22:18:32

Highest channel

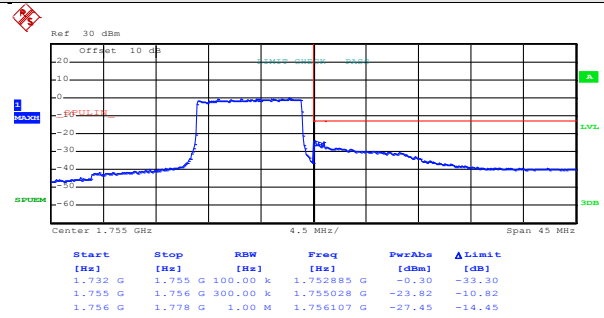
Test Mode:

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



Date: 18.MAY.2017 22:16:22

Lowest channel

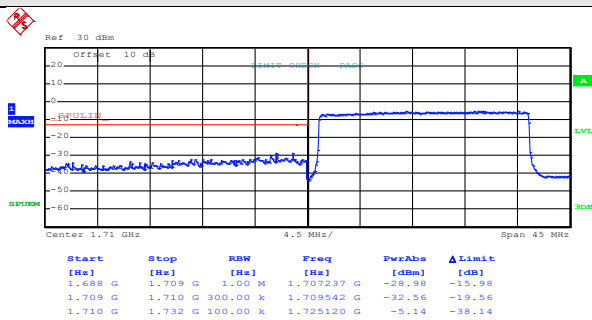


Date: 18.MAY.2017 22:18:59

Highest channel

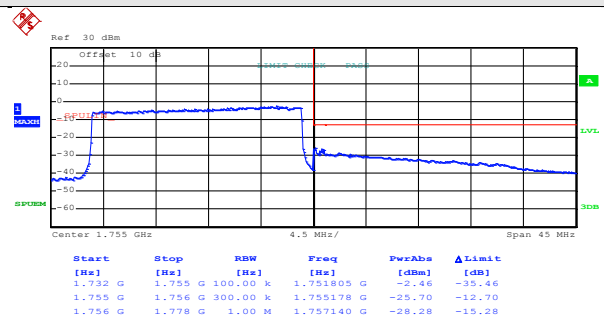
Test Mode:

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



Date: 18.MAY.2017 22:16:43

Lowest channel



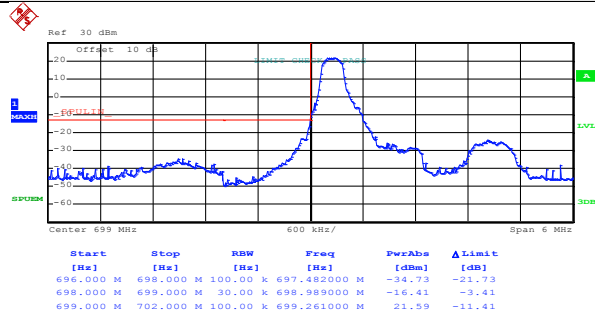
Date: 18.MAY.2017 22:19:20

Highest channel

LTE band 12 part:

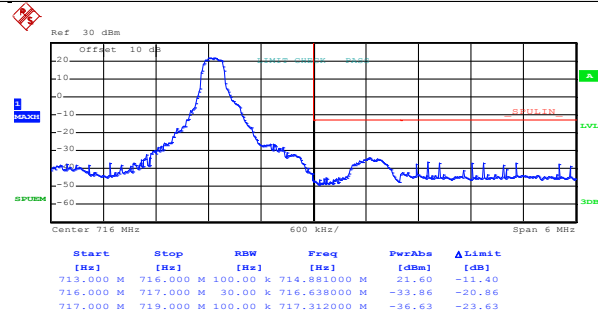
1.4MHz:

Test Mode:	LTE band 12 (QPSK RB Size 1 &RB Offset 0)
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Date: 18.MAY.2017 22:33:49

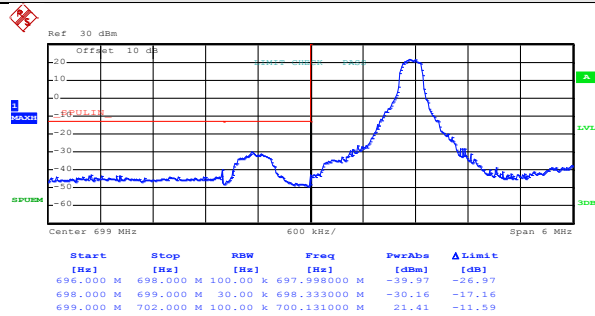
Lowest channel



Date: 18.MAY.2017 22:36:08

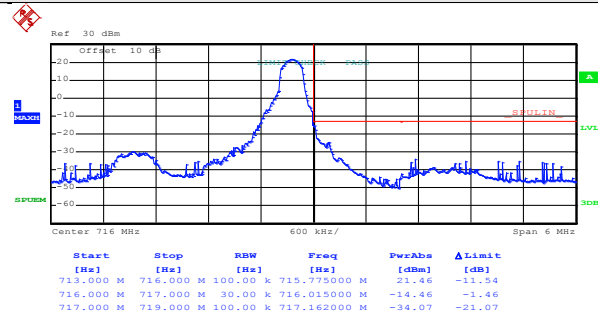
Highest channel

Test Mode:	LTE band 12 (QPSK RB Size 1 &RB Offset 5)
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Date: 18.MAY.2017 22:34:11

Lowest channel

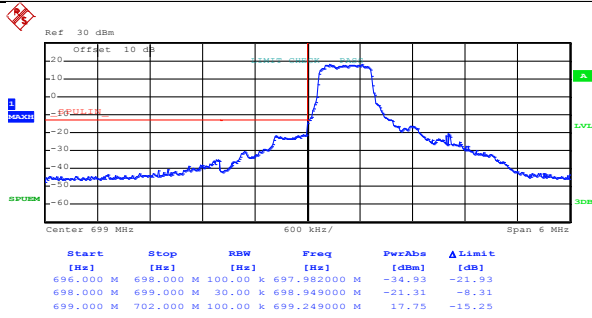


Date: 18.MAY.2017 22:36:26

Highest channel

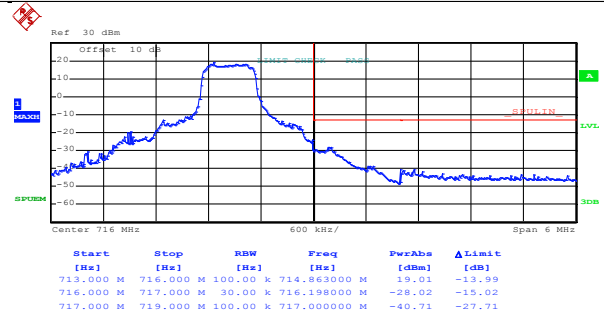
Test Mode:

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



Date: 18.MAY.2017 22:34:32

Lowest channel

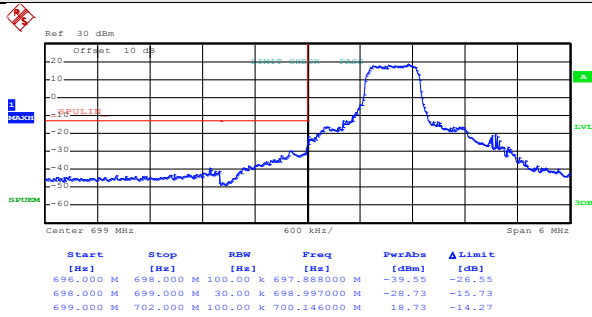


Date: 18.MAY.2017 22:36:47

Highest channel

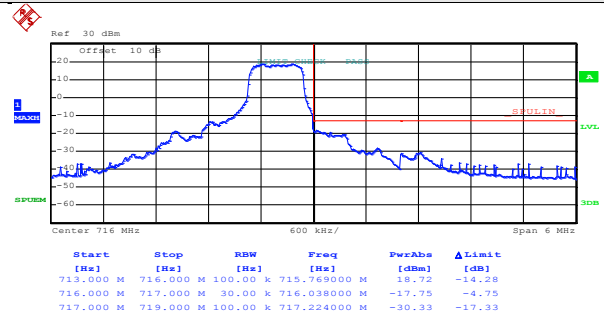
Test Mode:

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



Date: 18.MAY.2017 22:35:02

Lowest channel

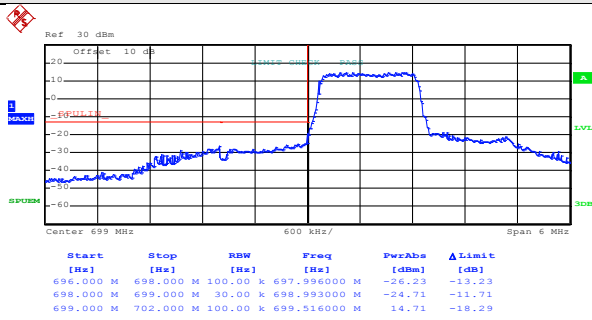


Date: 18.MAY.2017 23:16:56

Highest channel

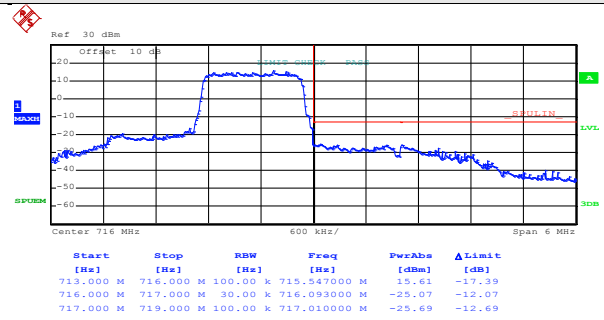
Test Mode:

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



Date: 18.MAY.2017 22:35:22

Lowest channel

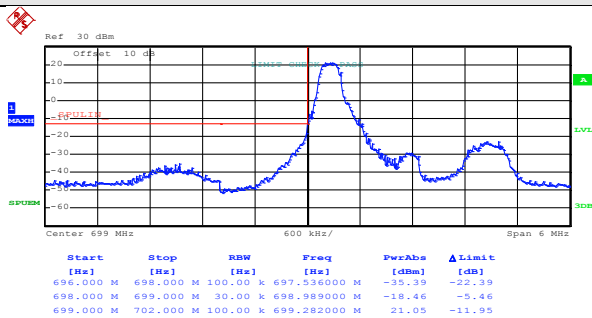


Date: 18.MAY.2017 22:37:07

Highest channel

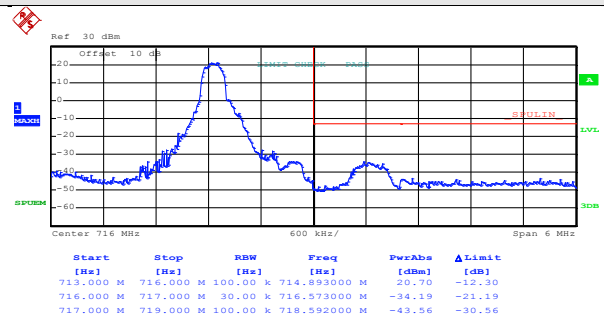
Test Mode:

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



Date: 18.MAY.2017 22:33:58

Lowest channel

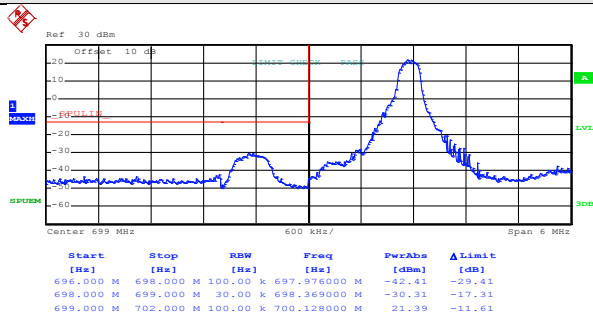


Date: 18.MAY.2017 22:36:16

Highest channel

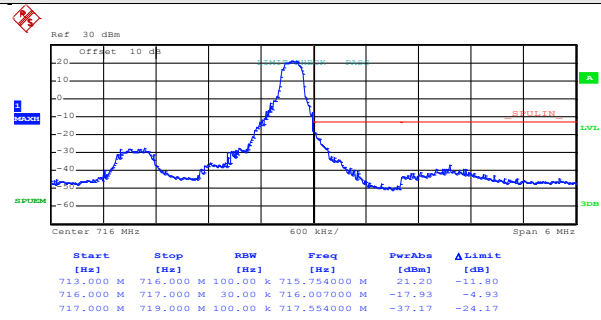
Test Mode:

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



Date: 18.MAY.2017 22:34:19

Lowest channel

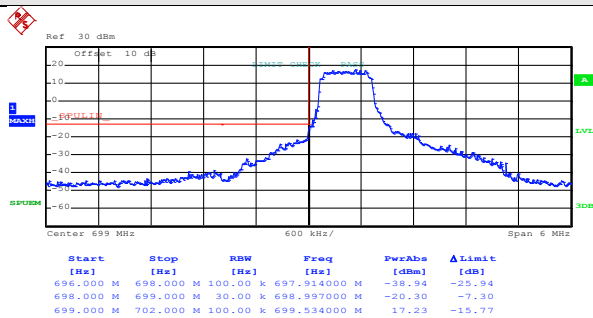


Date: 18.MAY.2017 22:36:35

Highest channel

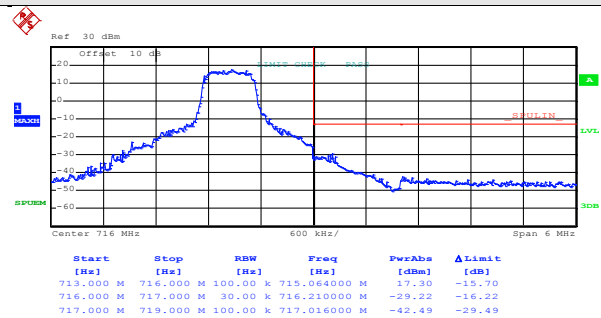
Test Mode:

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



Date: 18.MAY.2017 22:34:40

Lowest channel

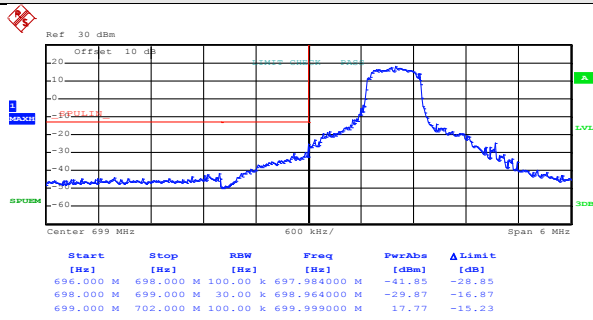


Date: 18.MAY.2017 22:36:55

Highest channel

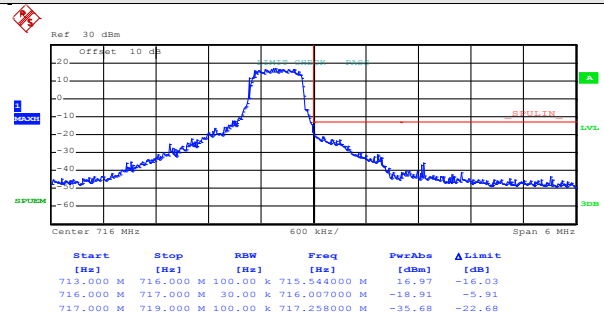
Test Mode:

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



Date: 18.MAY.2017 22:35:11

Lowest channel

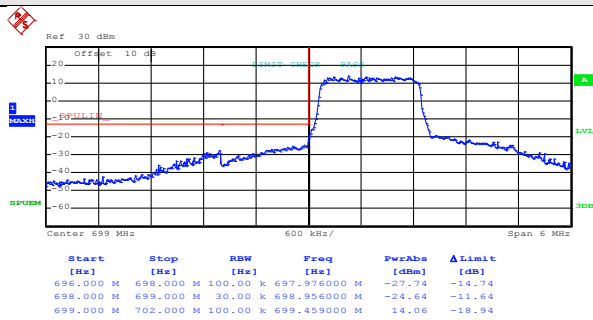


Date: 18.MAY.2017 23:17:09

Highest channel

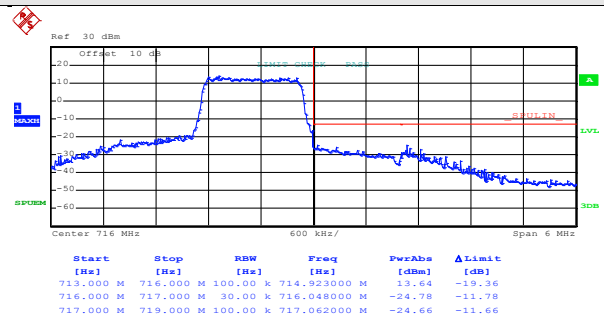
Test Mode:

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



Date: 18.MAY.2017 22:35:30

Lowest channel



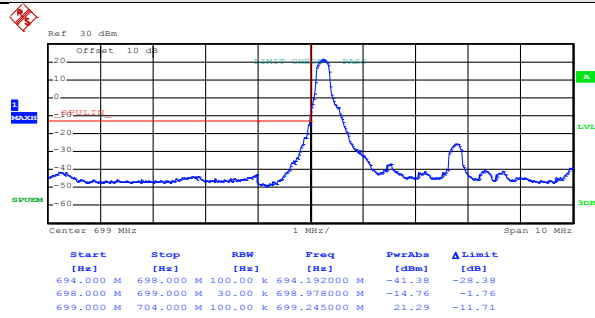
Date: 18.MAY.2017 22:37:13

Highest channel

3MHz:

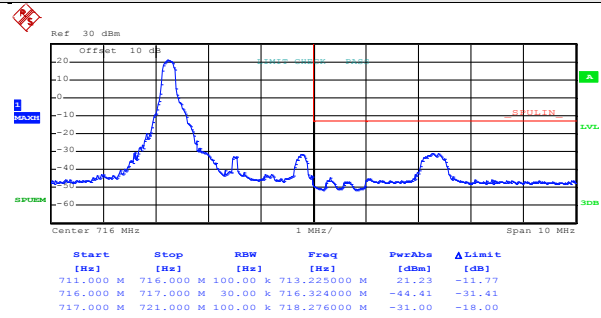
Test Mode:

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



Date: 18.MAY.2017 22:38:32

Lowest channel

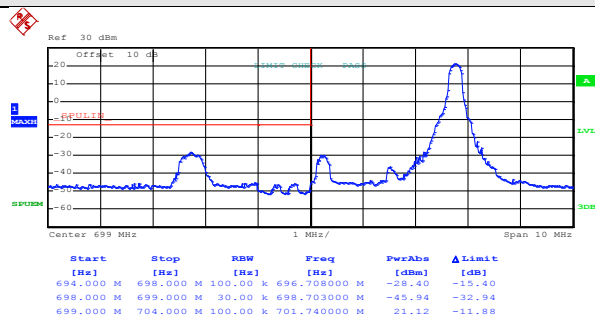


Date: 18.MAY.2017 22:40:34

Highest channel

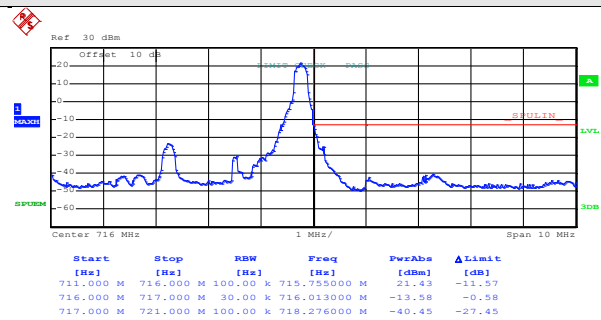
Test Mode:

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



Date: 18.MAY.2017 22:38:51

Lowest channel

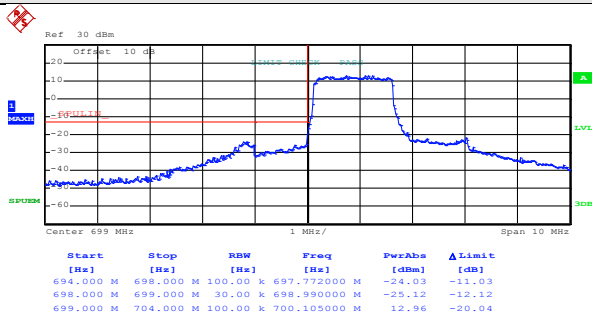


Date: 18.MAY.2017 22:40:52

Highest channel

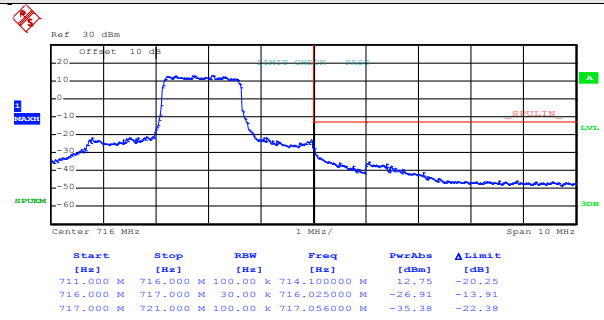
Test Mode:

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



Date: 18.MAY.2017 22:39:13

Lowest channel

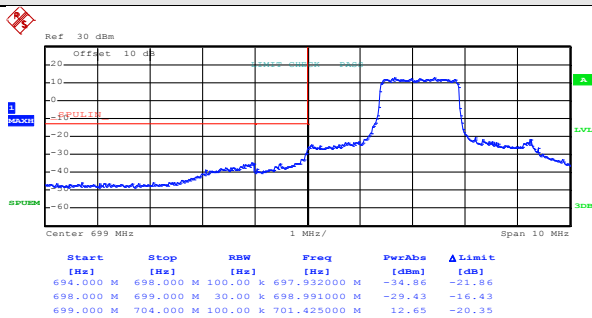


Date: 18.MAY.2017 22:41:12

Highest channel

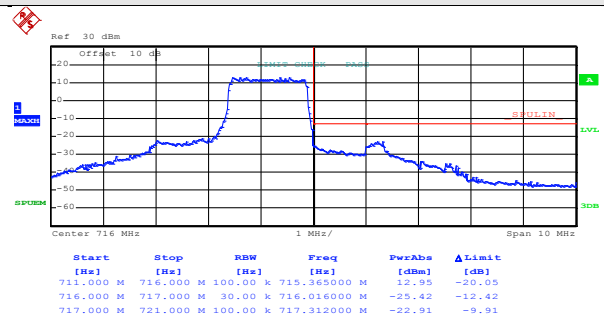
Test Mode:

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



Date: 18.MAY.2017 22:39:31

Lowest channel

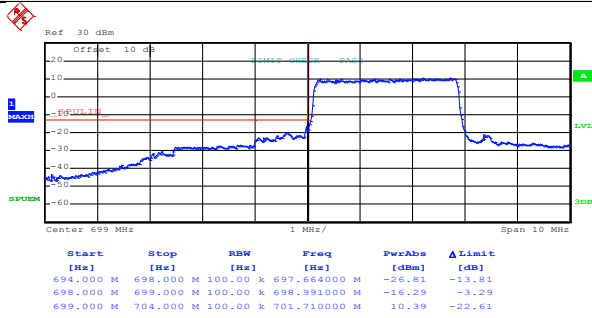


Date: 18.MAY.2017 22:41:31

Highest channel

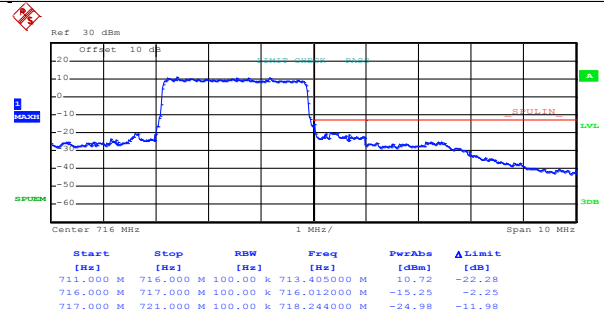
Test Mode:

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



Date: 18.MAY.2017 22:39:56

Lowest channel

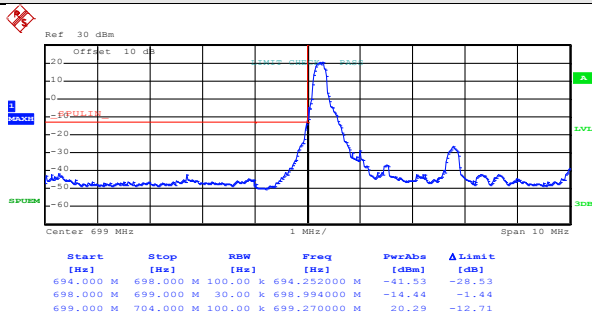


Date: 18.MAY.2017 22:41:54

Highest channel

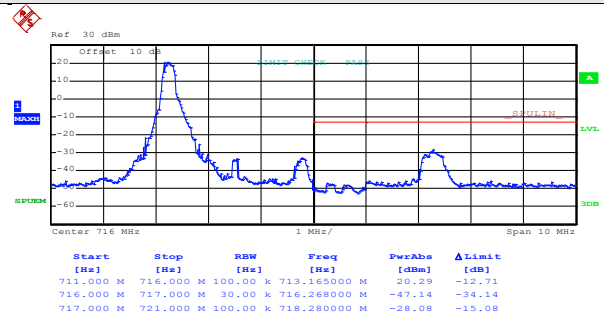
Test Mode:

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



Date: 18.MAY.2017 22:38:40

Lowest channel

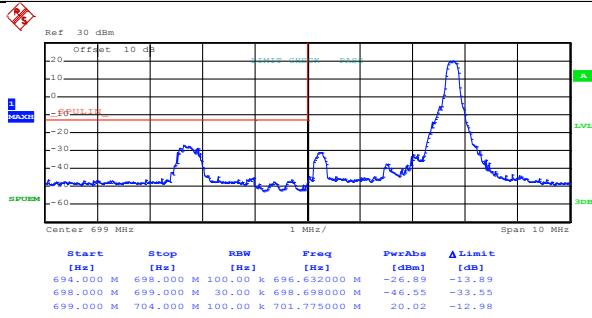


Date: 18.MAY.2017 22:40:41

Highest channel

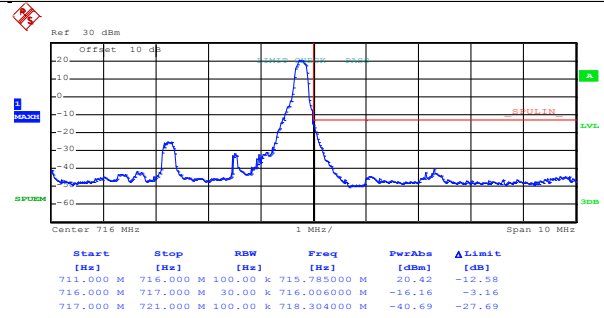
Test Mode:

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



Date: 18.MAY.2017 22:38:59

Lowest channel

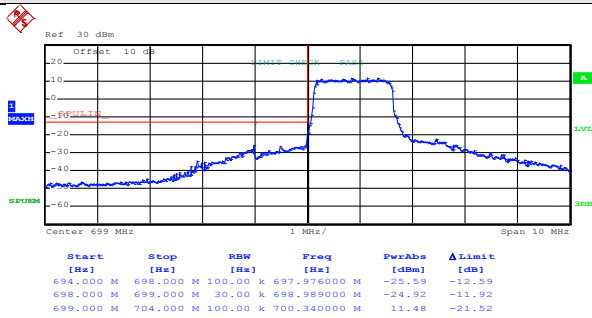


Date: 18.MAY.2017 22:41:00

Highest channel

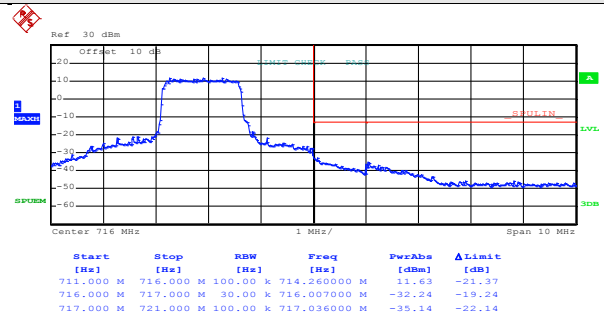
Test Mode:

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



Date: 18.MAY.2017 22:39:20

Lowest channel

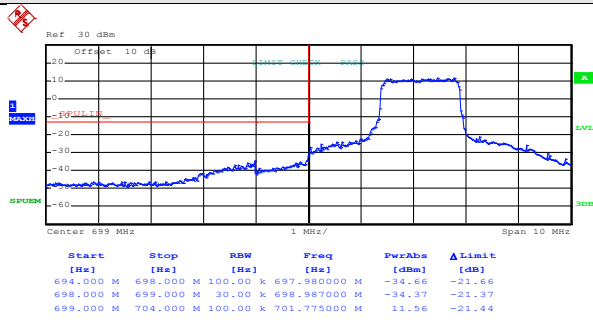


Date: 18.MAY.2017 22:41:20

Highest channel

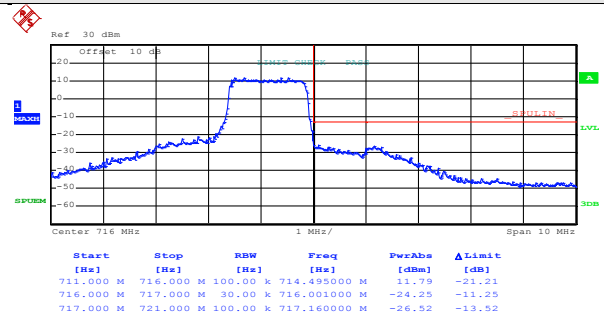
Test Mode:

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



Date: 18.MAY.2017 22:39:40

Lowest channel

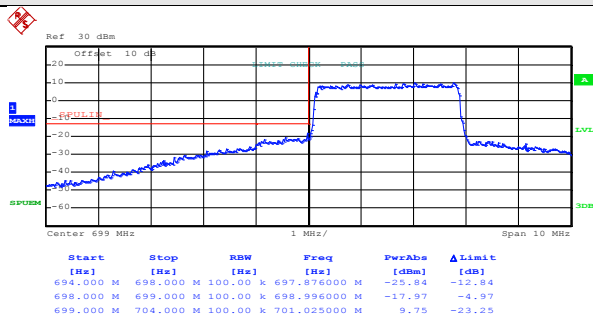


Date: 18.MAY.2017 22:41:39

Highest channel

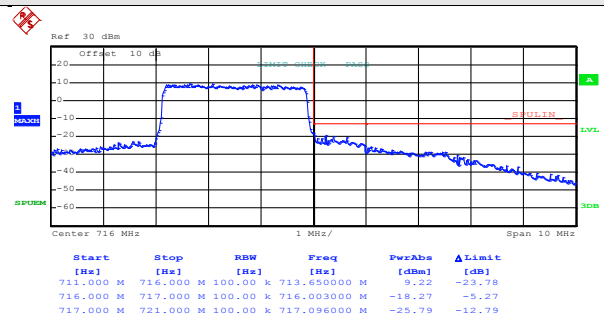
Test Mode:

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



Date: 18.MAY.2017 22:40:03

Lowest channel



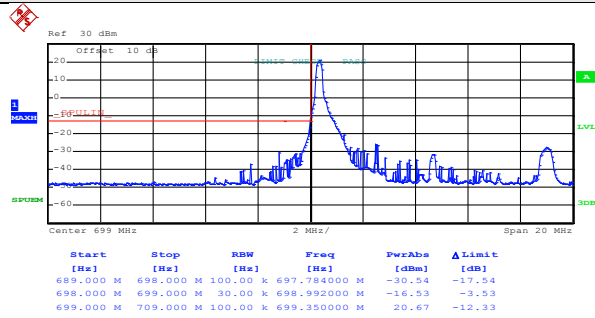
Date: 18.MAY.2017 22:42:00

Highest channel

5MHz:

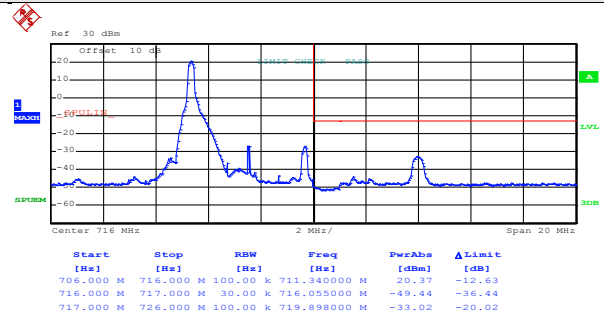
Test Mode:

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



Date: 18.MAY.2017 22:42:54

Lowest channel

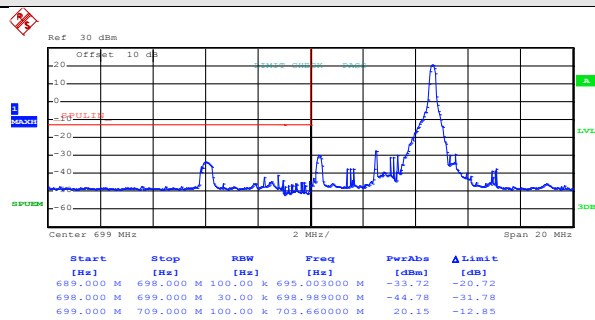


Date: 18.MAY.2017 22:45:00

Highest channel

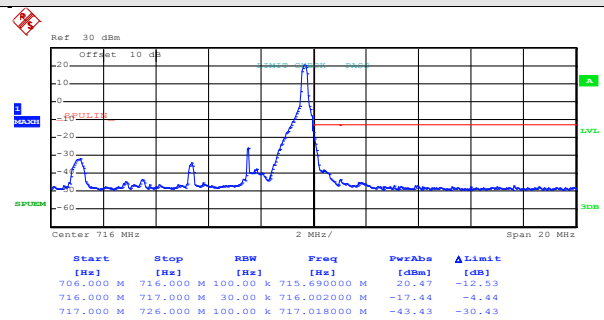
Test Mode:

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



Date: 18.MAY.2017 22:43:11

Lowest channel

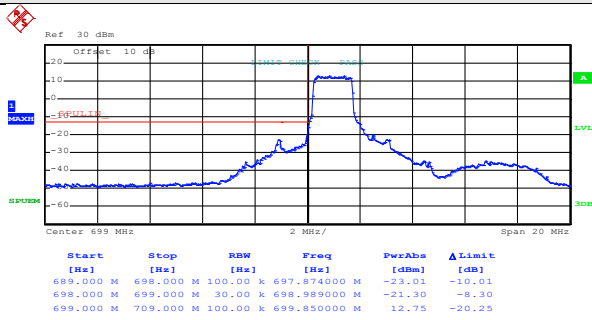


Date: 18.MAY.2017 22:45:25

Highest channel

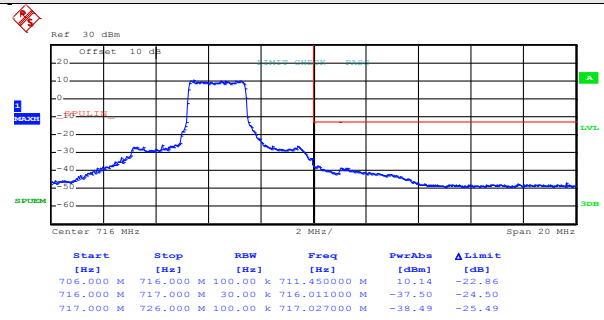
Test Mode:

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



Date: 18.MAY.2017 22:43:32

Lowest channel

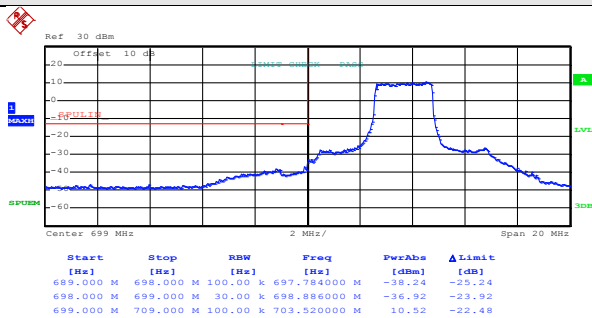


Date: 18.MAY.2017 22:45:45

Highest channel

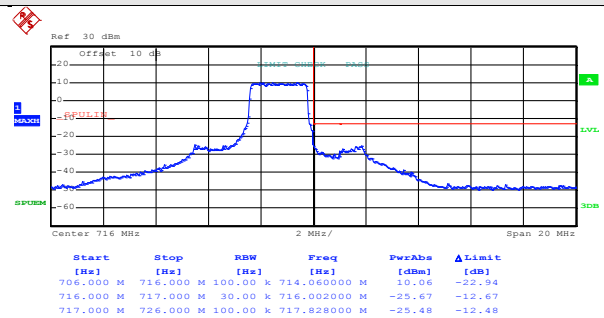
Test Mode:

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



Date: 18.MAY.2017 22:44:02

Lowest channel

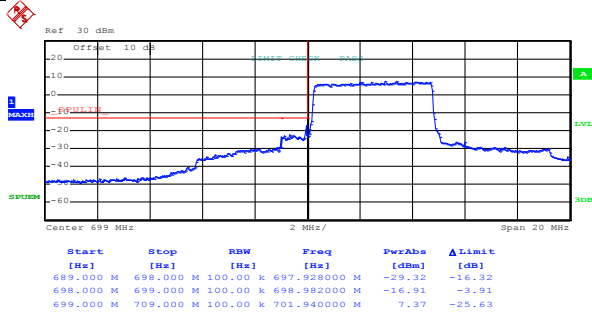


Date: 18.MAY.2017 22:46:04

Highest channel

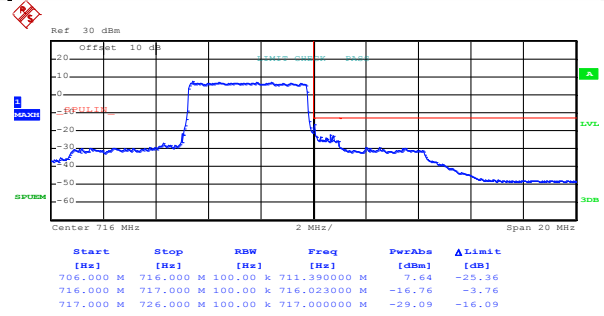
Test Mode:

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



Date: 18.MAY.2017 22:44:28

Lowest channel

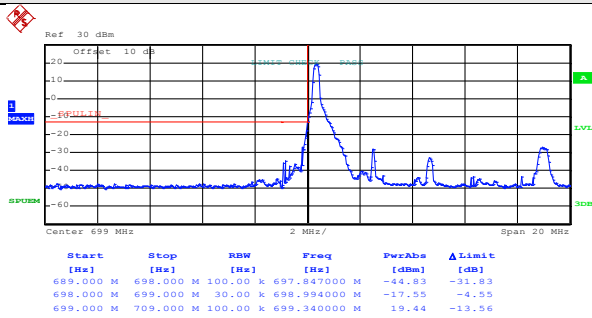


Date: 18.MAY.2017 22:46:27

Highest channel

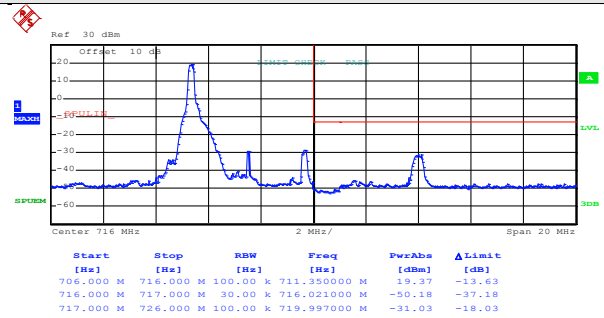
Test Mode:

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



Date: 18.MAY.2017 22:43:02

Lowest channel

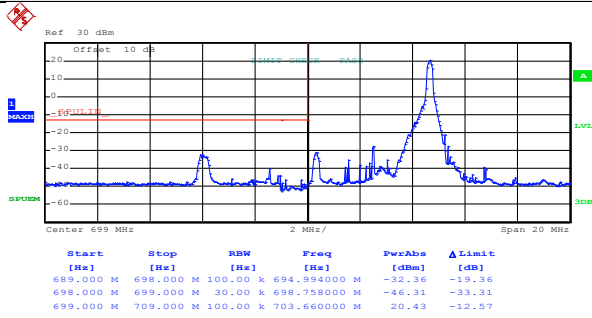


Date: 18.MAY.2017 22:45:13

Highest channel

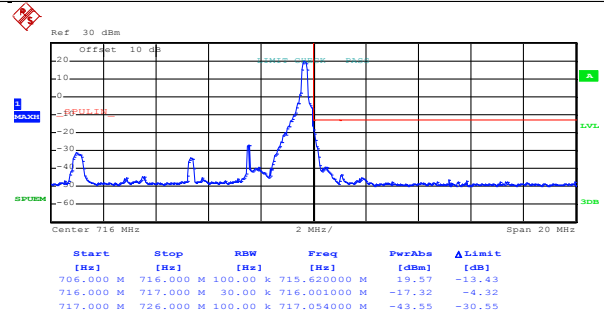
Test Mode:

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



Date: 18.MAY.2017 22:43:20

Lowest channel

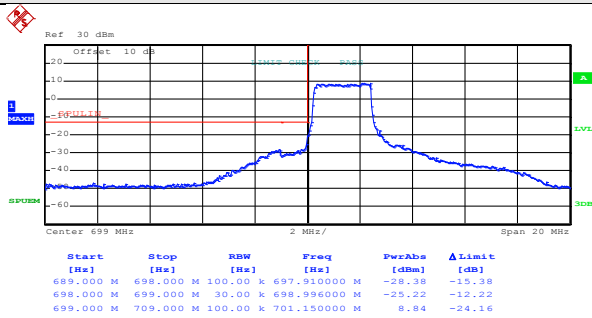


Date: 18.MAY.2017 22:45:33

Highest channel

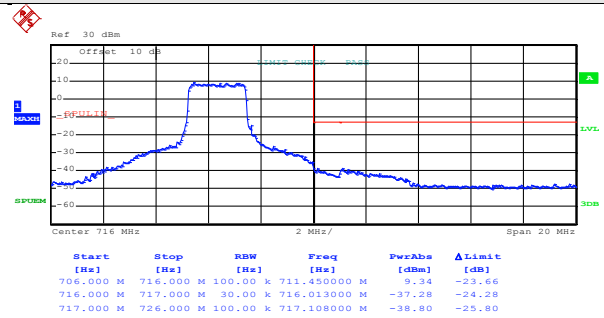
Test Mode:

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



Date: 18.MAY.2017 22:43:40

Lowest channel

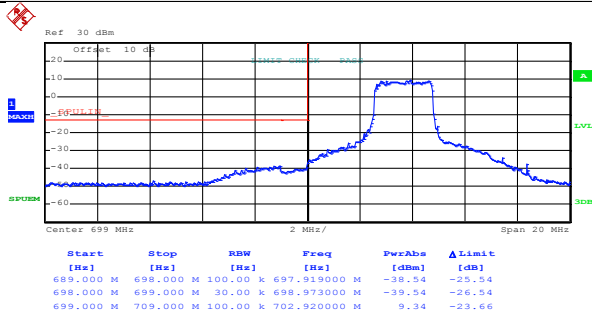


Date: 18.MAY.2017 22:45:52

Highest channel

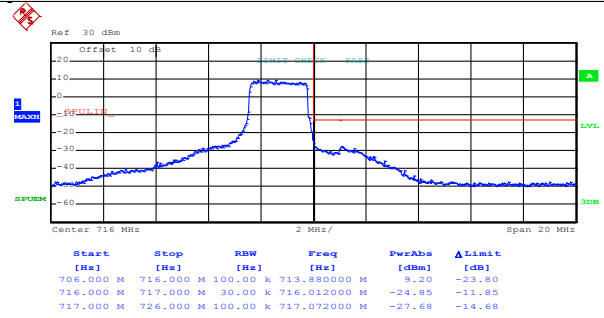
Test Mode:

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



Date: 18.MAY.2017 22:44:10

Lowest channel

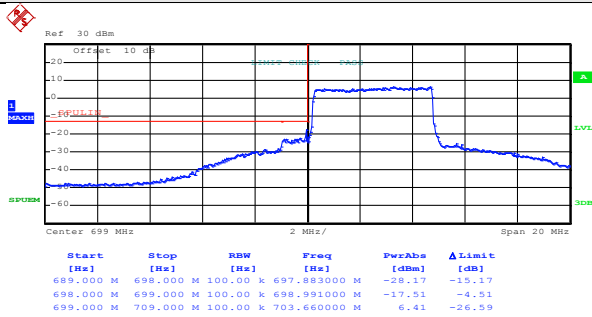


Date: 18.MAY.2017 22:46:12

Highest channel

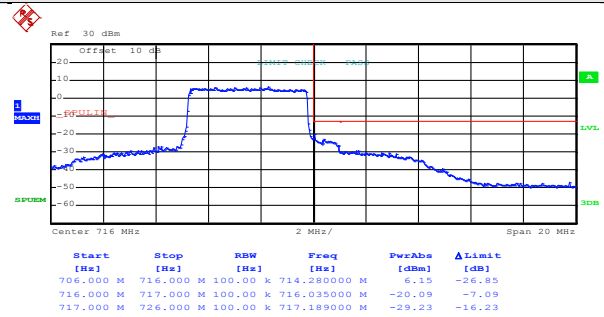
Test Mode:

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



Date: 18.MAY.2017 22:44:37

Lowest channel



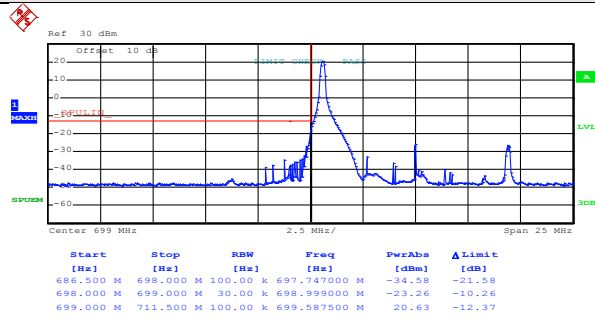
Date: 18.MAY.2017 22:46:34

Highest channel

10MHz:

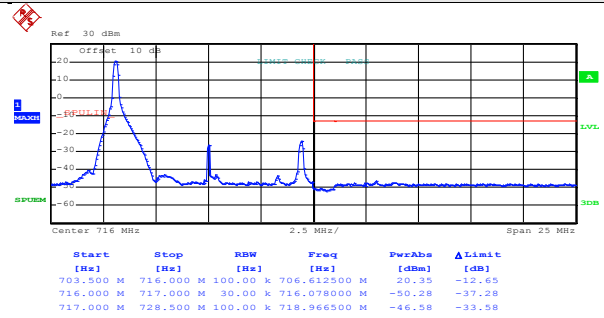
Test Mode:

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



Date: 18.MAY.2017 22:47:32

Lowest channel

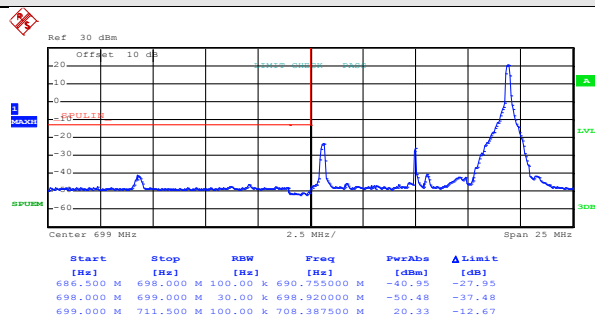


Date: 18.MAY.2017 22:49:49

Highest channel

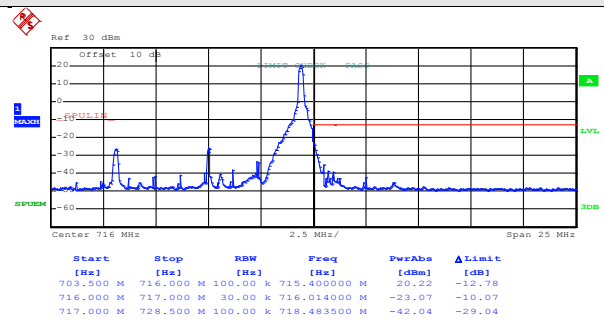
Test Mode:

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



Date: 18.MAY.2017 22:47:52

Lowest channel

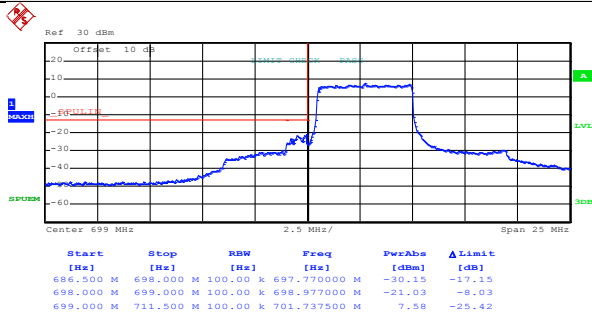


Date: 18.MAY.2017 22:50:06

Highest channel

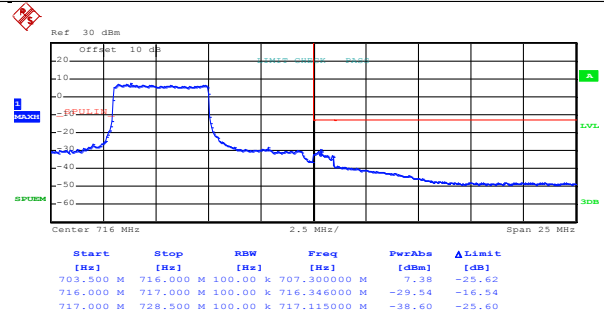
Test Mode:

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



Date: 18.MAY.2017 22:48:22

Lowest channel

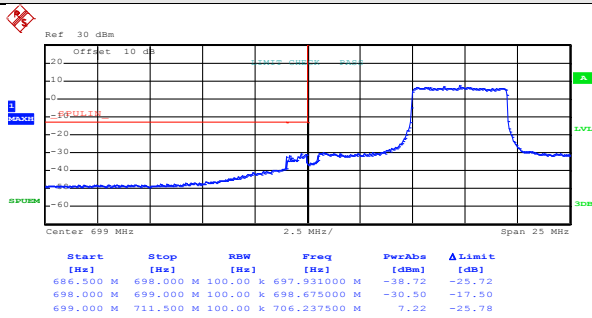


Date: 18.MAY.2017 22:50:36

Highest channel

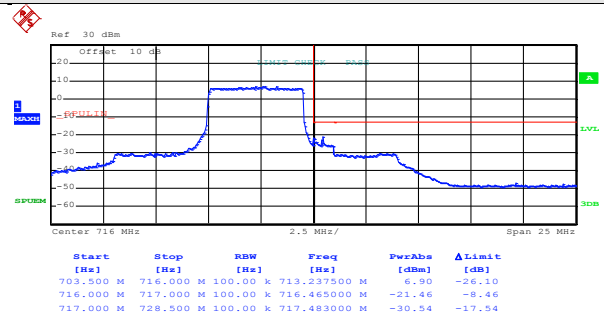
Test Mode:

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



Date: 18.MAY.2017 22:48:41

Lowest channel

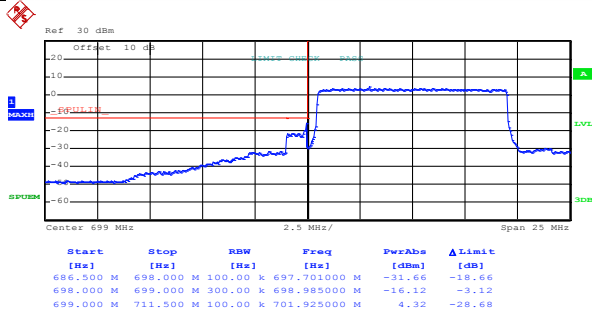


Date: 18.MAY.2017 22:50:56

Highest channel

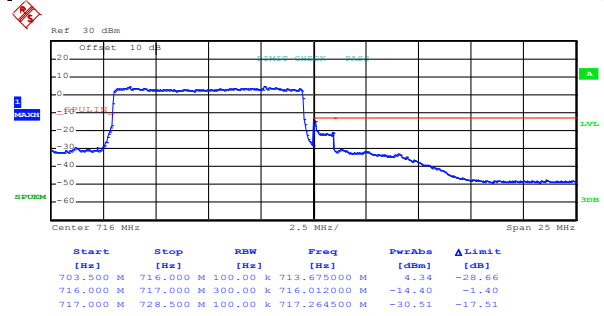
Test Mode:

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



Date: 18.MAY.2017 22:49:04

Lowest channel

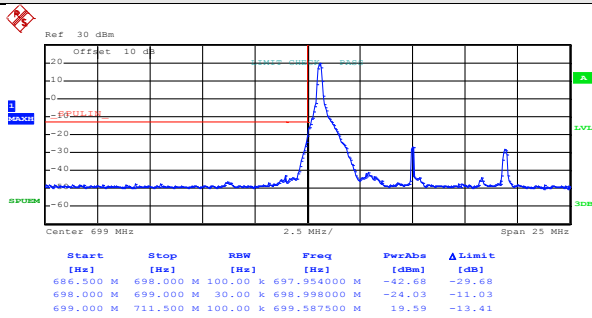


Date: 18.MAY.2017 22:51:22

Highest channel

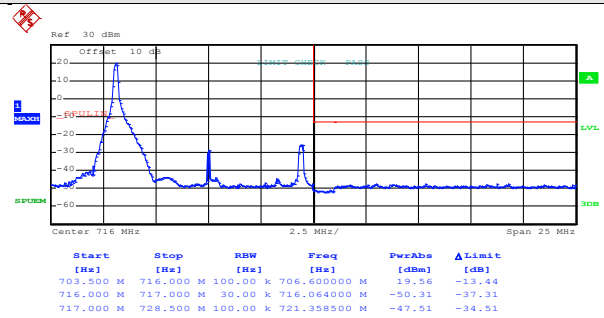
Test Mode:

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



Date: 18.MAY.2017 22:47:40

Lowest channel

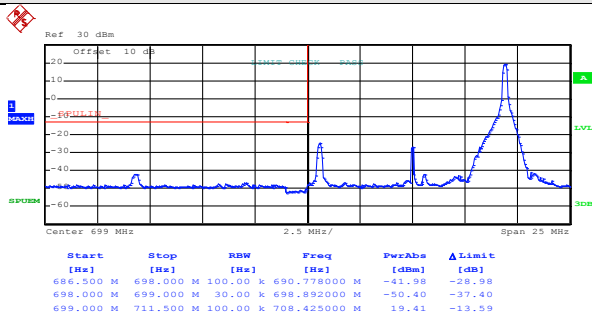


Date: 18.MAY.2017 22:49:57

Highest channel

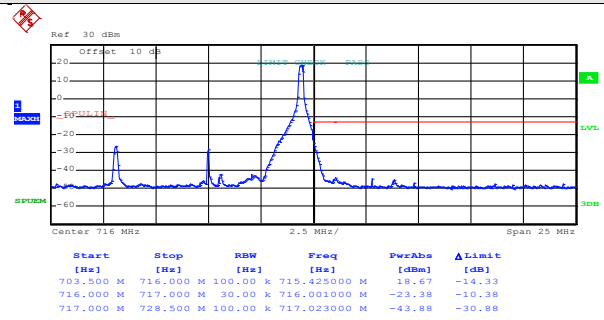
Test Mode:

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



Date: 18.MAY.2017 22:48:00

Lowest channel

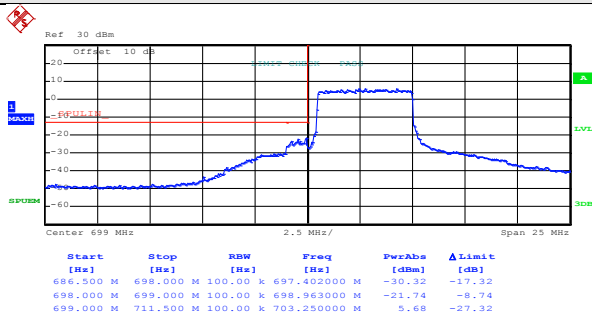


Date: 18.MAY.2017 22:50:14

Highest channel

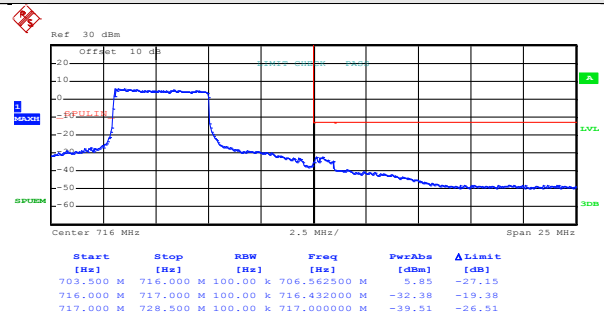
Test Mode:

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



Date: 18.MAY.2017 22:48:29

Lowest channel

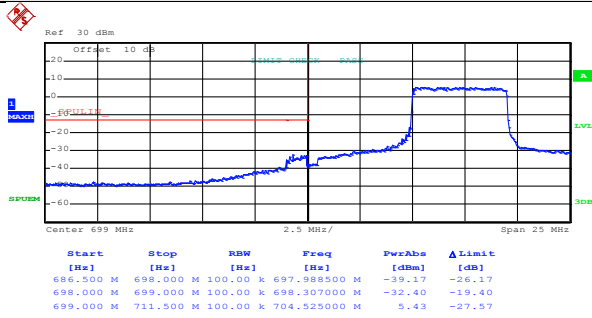


Date: 18.MAY.2017 22:50:43

Highest channel

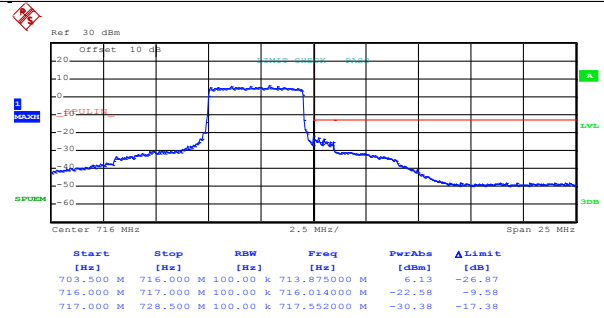
Test Mode:

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



Date: 18.MAY.2017 22:48:49

Lowest channel

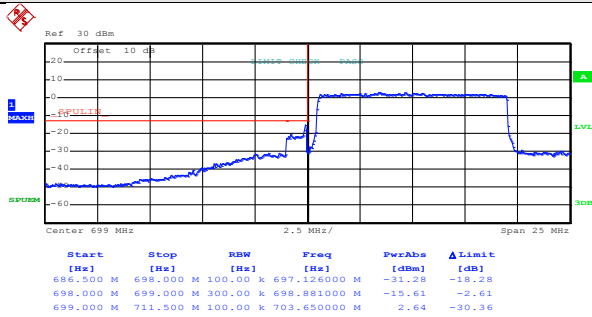


Date: 18.MAY.2017 22:51:05

Highest channel

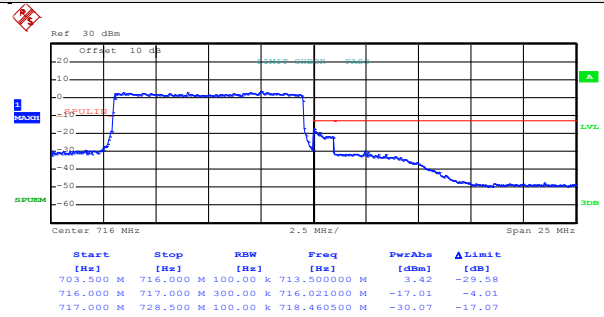
Test Mode:

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



Date: 18.MAY.2017 22:49:10

Lowest channel



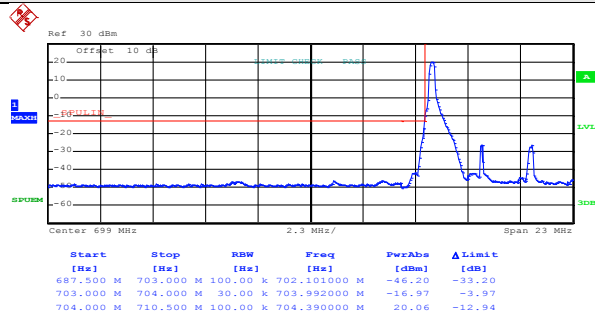
Date: 18.MAY.2017 22:51:30

Highest channel

LTE band 17 part:5MHz:

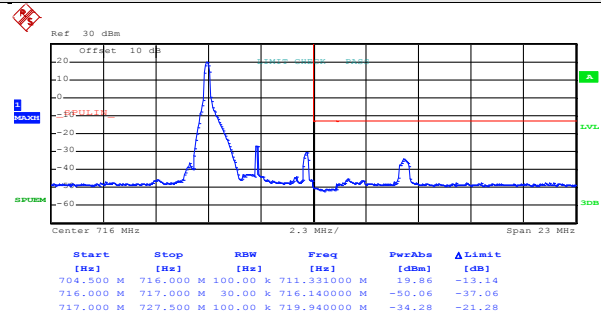
Test Mode:

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



Date: 18.MAY.2017 22:54:36

Lowest channel

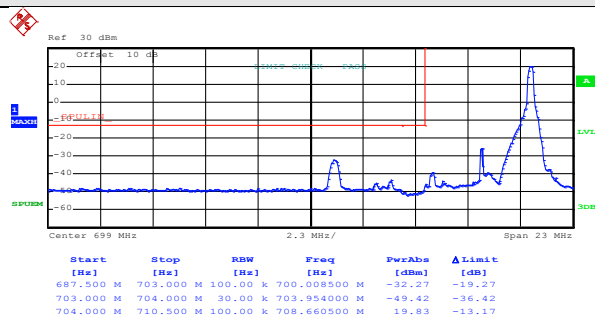


Date: 18.MAY.2017 22:57:24

Highest channel

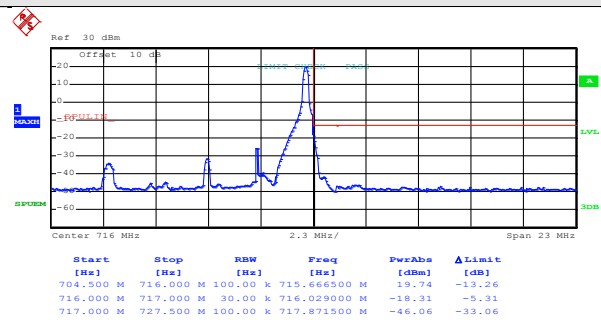
Test Mode:

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



Date: 18.MAY.2017 22:54:53

Lowest channel

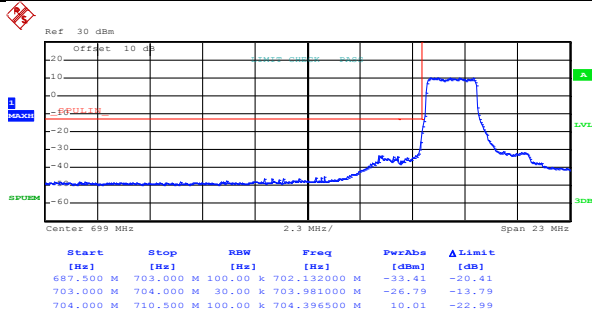


Date: 18.MAY.2017 22:57:42

Highest channel

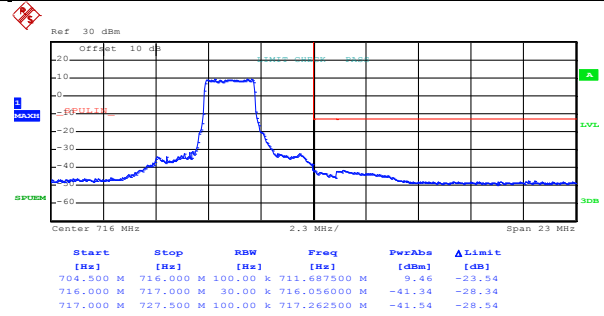
Test Mode:

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



Date: 18.MAY.2017 22:56:01

Lowest channel

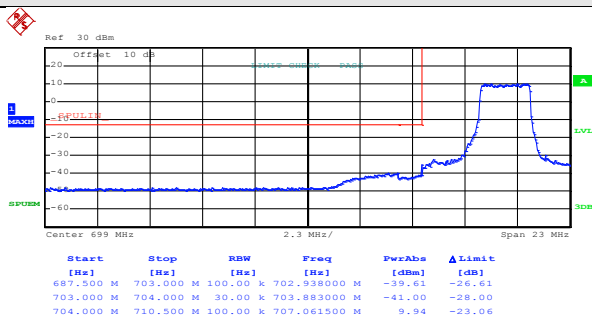


Date: 18.MAY.2017 22:58:01

Highest channel

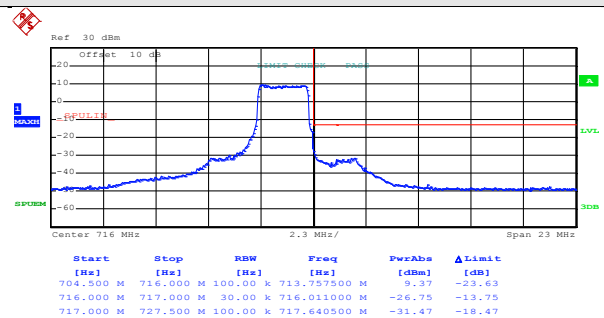
Test Mode:

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



Date: 18.MAY.2017 22:56:23

Lowest channel

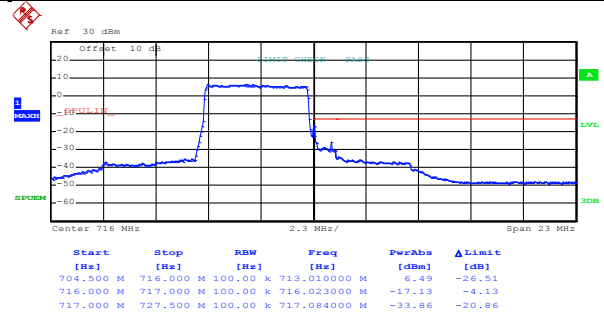
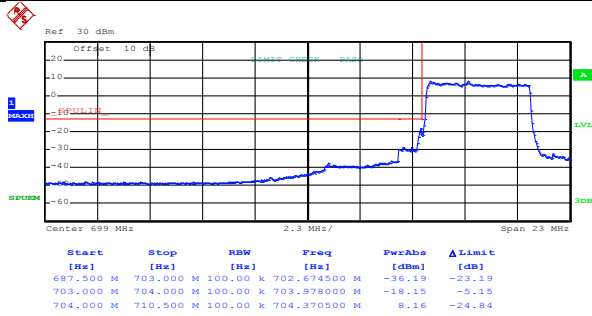


Date: 18.MAY.2017 22:58:20

Highest channel

Test Mode:

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



Date: 18.MAY.2017 22:56:47

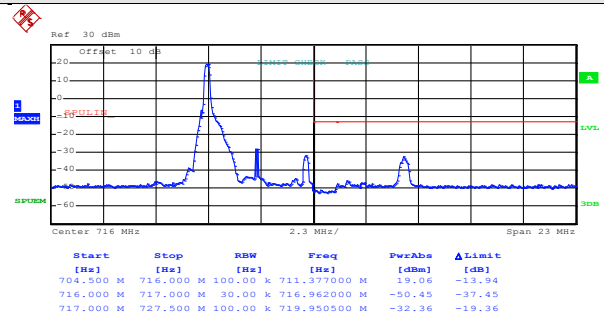
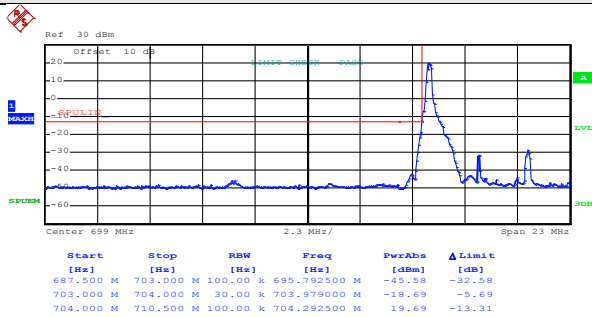
Date: 18.MAY.2017 22:58:43

Lowest channel

Highest channel

Test Mode:

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



Date: 18.MAY.2017 22:54:43

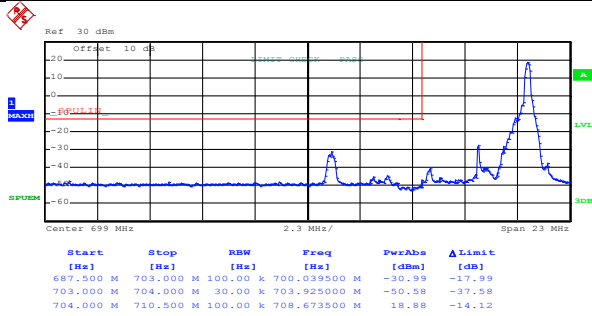
Date: 18.MAY.2017 22:57:32

Lowest channel

Highest channel

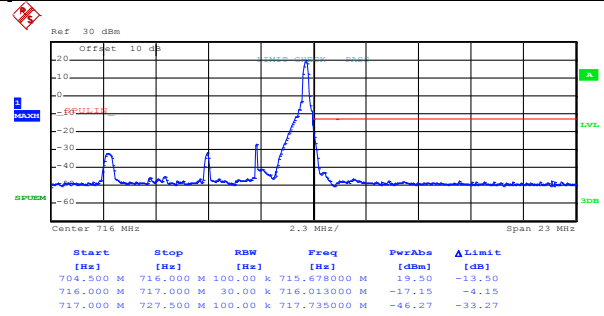
Test Mode:

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



Date: 18.MAY.2017 22:55:01

Lowest channel

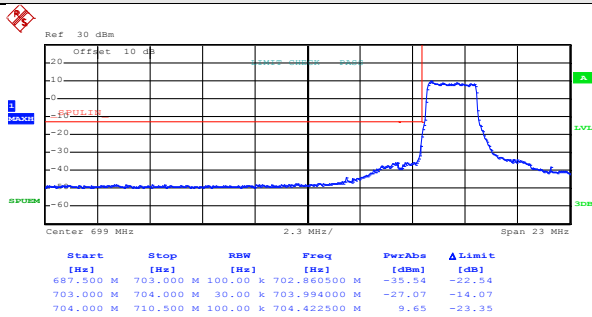


Date: 18.MAY.2017 22:57:50

Highest channel

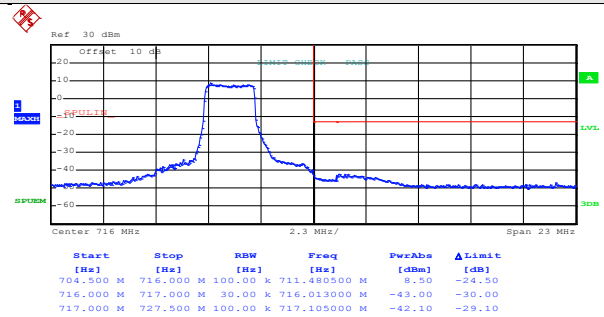
Test Mode:

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



Date: 18.MAY.2017 22:56:11

Lowest channel

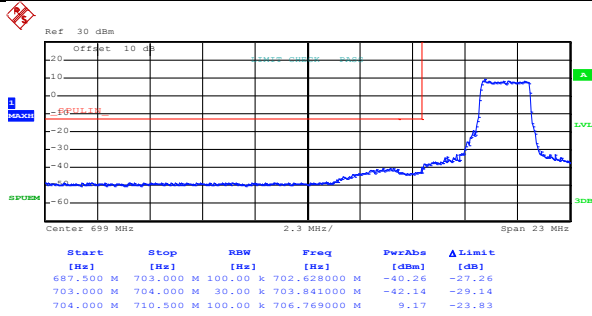


Date: 18.MAY.2017 22:58:09

Highest channel

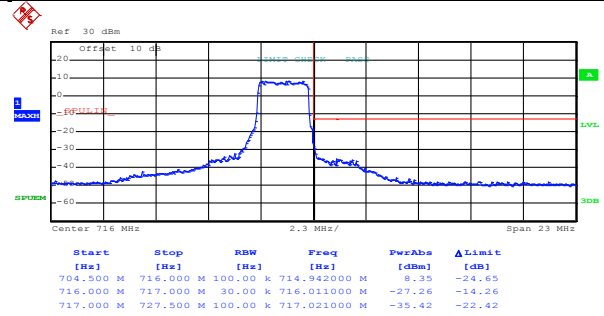
Test Mode:

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



Date: 18.MAY.2017 22:56:31

Lowest channel

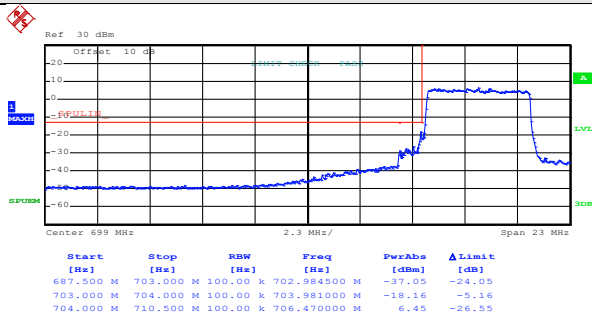


Date: 18.MAY.2017 22:58:27

Highest channel

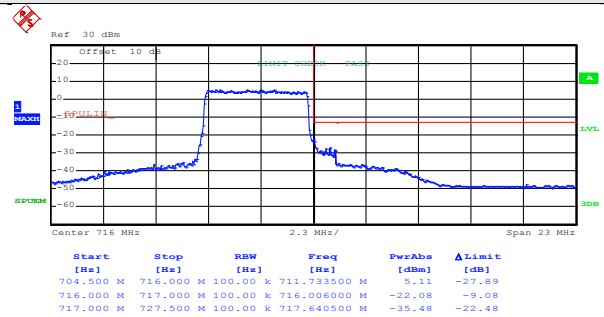
Test Mode:

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



Date: 18.MAY.2017 22:56:54

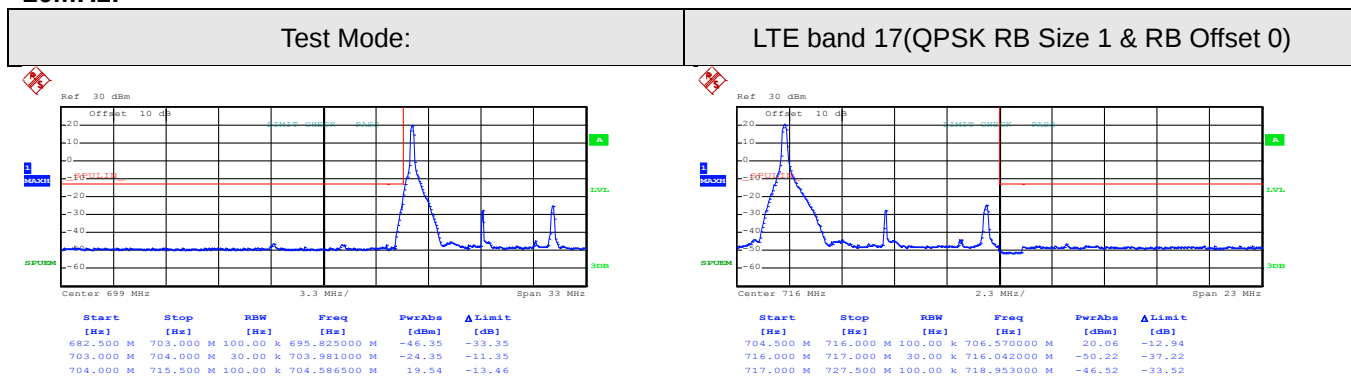
Lowest channel



Date: 18.MAY.2017 22:58:51

Highest channel

10MHz:

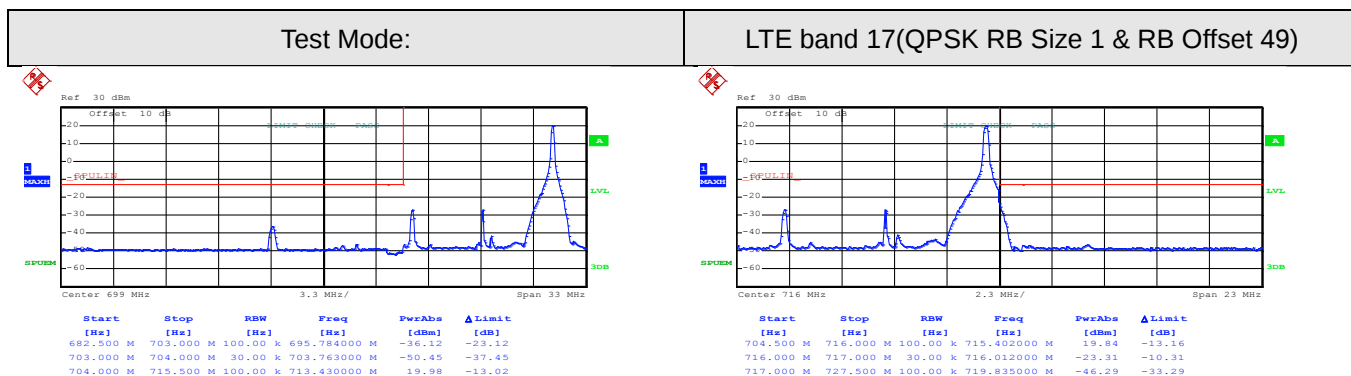


Date: 18.MAY.2017 23:00:34

Date: 18.MAY.2017 23:02:47

Lowest channel

Highest channel



Date: 18.MAY.2017 23:00:55

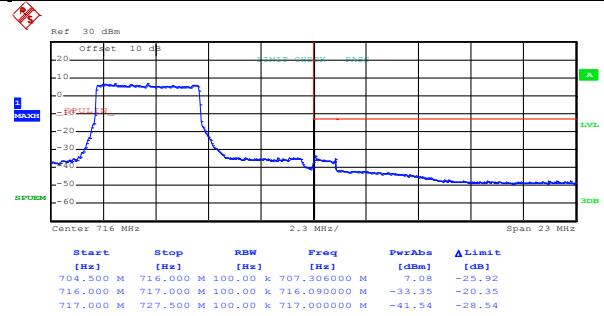
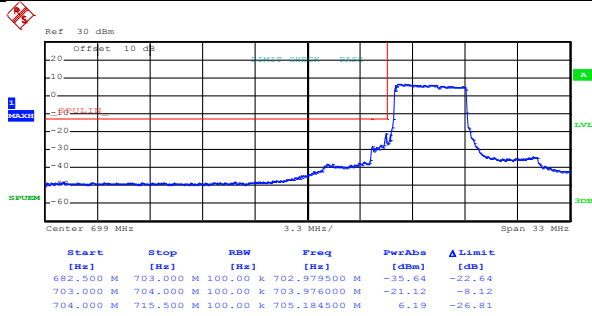
Date: 18.MAY.2017 23:03:06

Lowest channel

Highest channel

Test Mode:

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



Date: 18.MAY.2017 23:01:19

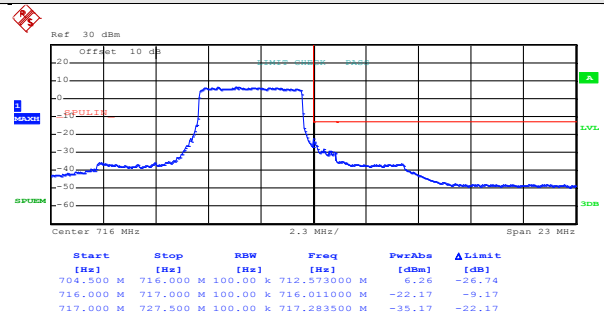
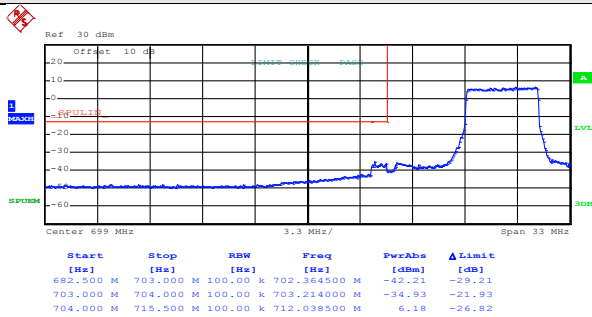
Date: 18.MAY.2017 23:03:41

Lowest channel

Highest channel

Test Mode:

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



Date: 18.MAY.2017 23:01:39

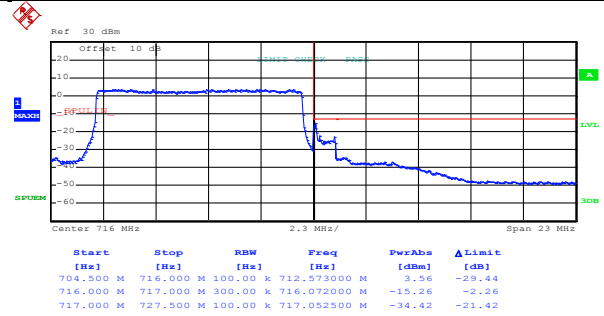
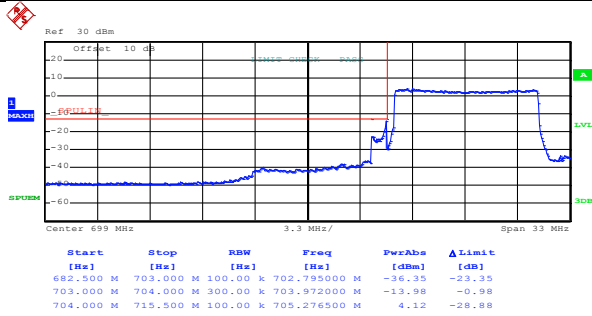
Date: 18.MAY.2017 23:04:00

Lowest channel

Highest channel

Test Mode:

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



Date: 18.MAY.2017 23:02:05

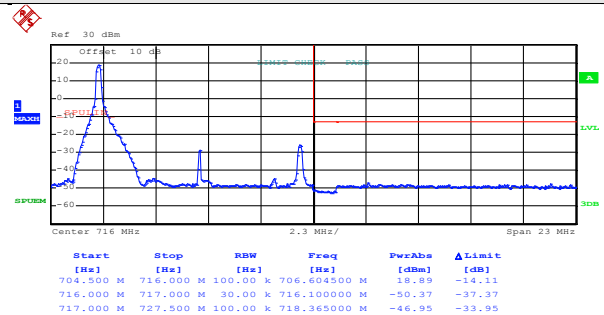
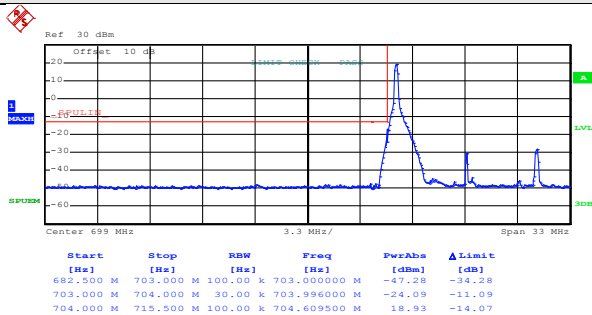
Date: 18.MAY.2017 23:04:25

Lowest channel

Highest channel

Test Mode:

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



Date: 18.MAY.2017 23:00:44

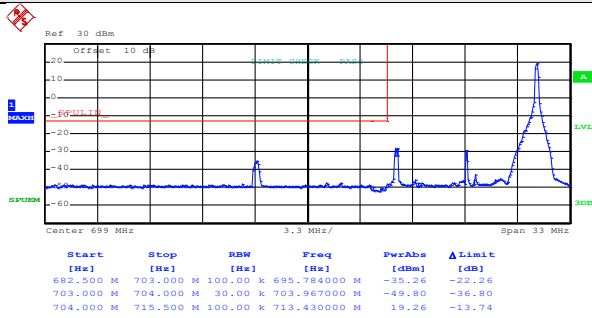
Date: 18.MAY.2017 23:02:55

Lowest channel

Highest channel

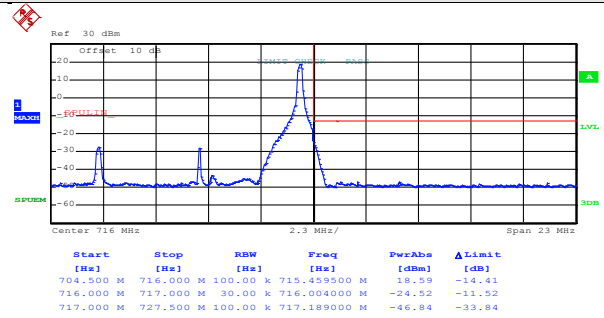
Test Mode:

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



Date: 18.MAY.2017 23:01:03

Lowest channel

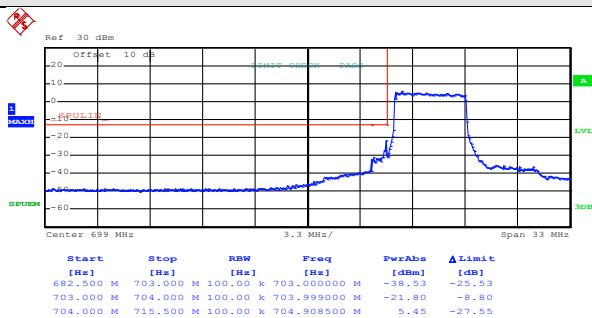


Date: 18.MAY.2017 23:03:14

Highest channel

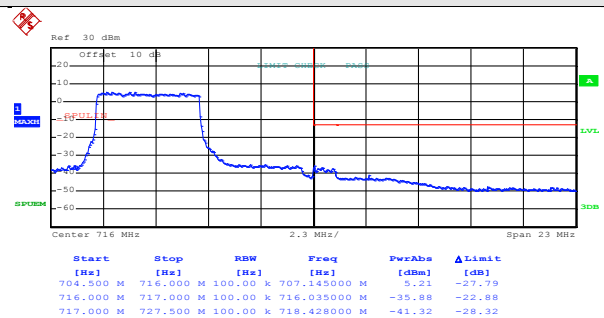
Test Mode:

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



Date: 18.MAY.2017 23:01:27

Lowest channel

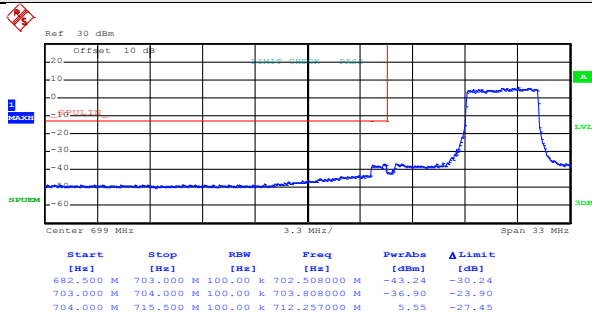


Date: 18.MAY.2017 23:03:48

Highest channel

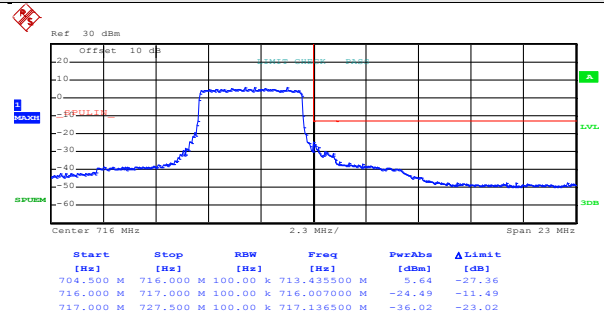
Test Mode:

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



Date: 18.MAY.2017 23:01:47

Lowest channel

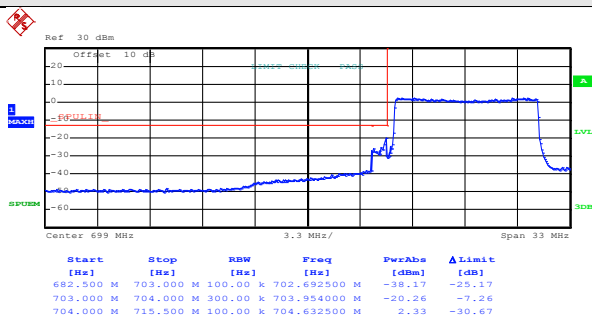


Date: 18.MAY.2017 23:04:09

Highest channel

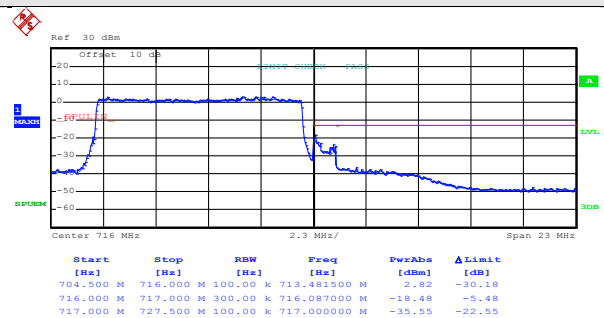
Test Mode:

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



Date: 18.MAY.2017 23:02:11

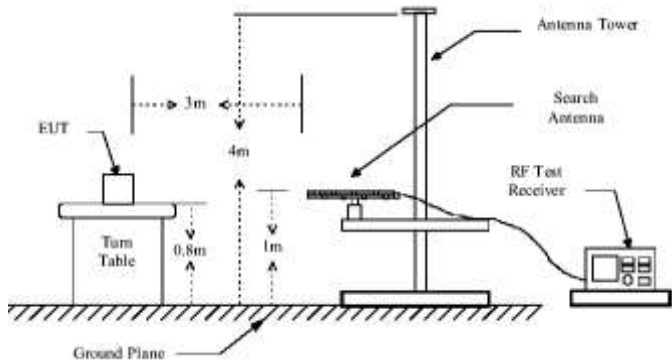
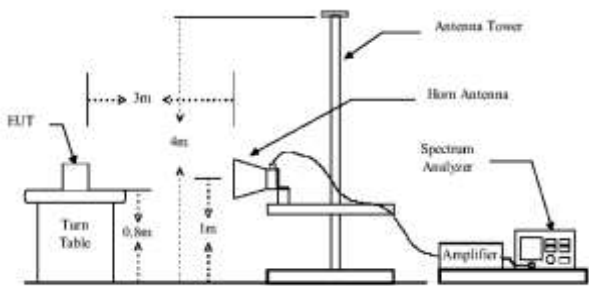
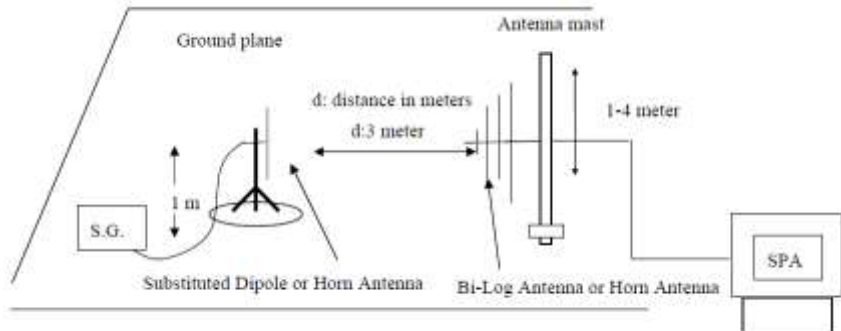
Lowest channel



Date: 18.MAY.2017 23:04:31

Highest channel

6.10 ERP, EIRP Measurement

Test Requirement:	FCC part 24.232 (c), part 27.50(c), part 27.50(d), part 27.50 (h)
Test Method:	FCC part2.1046
Limit:	LTE Band 2: 2W EIRP LTE Band 4: 1W EIRP LTE Band 12: 3W ERP LTE Band 17: 3W 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 2 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)								
1850.70	18607	QPSK	1.4	H	V	20.38	33.00	Pass
					H	17.70		
1850.70	18607	16QAM	1.4	H	V	19.23		
					H	18.22		
1.4MHz(RB size 3 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	20.12	33.00	Pass
					H	20.44		
1850.70	18607	16QAM	1.4	H	V	19.57		
					H	19.36		
1.4MHz(RB size 6 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	19.42	33.00	Pass
					H	19.58		
1850.70	18607	16QAM	1.4	H	V	18.75		
					H	17.42		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	25.02	33.00	Pass
					H	20.65		
1880.00	18900	16QAM	1.4	H	V	26.83		
					H	20.58		
1.4MHz(RB size 3 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	26.68	33.00	Pass
					H	20.23		
1880.00	18900	16QAM	1.4	H	V	27.06		
					H	20.41		
1.4MHz(RB size 6 & RB offset 0)								
1880.00	18900	QPSK	1.40	H	V	26.02	33.00	Pass
					H	19.34		
1880.00	18900	16QAM	1.40	H	V	25.58		
					H	19.59		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	25.23	33.00	Pass
					H	20.31		
1909.30	19193	16QAM	1.4	H	V	26.24		
					H	20.22		
1.4MHz(RB size 3 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	25.22	33.00	Pass
					H	20.24		
1909.30	19193	16QAM	1.4	H	V	26.64		
					H	21.27		
1.4MHz(RB size 6 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	25.26	33.00	Pass
					H	20.32		
1909.30	19193	16QAM	1.4	H	V	24.31		
					H	20.26		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	25.77	33.00	Pass
					H	20.61		
1860.00	18700	16QAM	20	H	V	25.05		
					H	19.79		
20MHz(RB size 50 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	24.59	33.00	Pass
					H	19.49		
1860.00	18700	16QAM	20	H	V	25.23		
					H	19.80		
20MHz(RB size 100 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	23.67	33.00	Pass
					H	18.32		
1860.00	18700	16QAM	20	H	V	24.44		
					H	18.80		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	24.23	33.00	Pass
					H	21.22		
1880.00	18900	16QAM	20	H	V	25.64		
					H	20.34		
20MHz(RB size 50 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	24.26	33.00	Pass
					H	20.17		
1880.00	18900	16QAM	20	H	V	25.69		
					H	20.22		
20MHz(RB size 100 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	23.36	33.00	Pass
					H	19.45		
1880.00	18900	16QAM	20	H	V	25.72		
					H	20.12		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	23.22	33.00	Pass
					H	22.24		
1900.00	19100	16QAM	20	H	V	24.72		
					H	21.34		
20MHz(RB size 50 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	23.34	33.00	Pass
					H	20.16		
1900.00	19100	16QAM	20	H	V	24.52		
					H	20.31		
20MHz(RB size 100 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	23.25	33.00	Pass
					H	20.13		
1900.00	19100	16QAM	20	H	V	25.24		
					H	21.36		

LTE band 4 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	26.52	30.00	Pass
					H	19.77		
1710.70	19957	16QAM	1.4	H	V	26.69		
					H	19.73		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	26.93	30.00	Pass
					H	19.54		
1710.70	19957	16QAM	1.4	H	V	26.88		
					H	19.92		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	25.55	30.00	Pass
					H	19.71		
1710.70	19957	16QAM	1.4	H	V	25.75		
					H	18.87		

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	25.23	30.00	Pass
					H	20.13		
1732.50	20175	16QAM	1.4	H	V	25.34		
					H	20.33		
1.4MHz(RB size 3 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	26.28	30.00	Pass
					H	20.45		
1732.50	20175	16QAM	1.4	H	V	25.76		
					H	20.49		
1.4MHz(RB size 6 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	25.41	30.00	Pass
					H	20.36		
1732.50	20175	16QAM	1.4	H	V	25.74		
					H	19.23		

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	24.16	30.00	Pass
					H	20.23		
1754.30	20393	16QAM	1.4	H	V	24.21		
					H	19.34		
1.4MHz(RB size 3 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	25.23	30.00	Pass
					H	21.21		
1754.30	20393	16QAM	1.4	H	V	26.31		
					H	20.42		
1.4MHz(RB size 6 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	26.34	30.00	Pass
					H	20.22		
1754.30	20393	16QAM	1.4	H	V	25.75		
					H	20.19		

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	26.57	30.00	Pass
					H	20.56		
1720.00	20050	16QAM	20	H	V	26.93		
					H	19.99		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	23.19	30.00	Pass
					H	17.57		
1720.00	20050	16QAM	20	H	V	23.58		
					H	17.23		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	24.34	30.00	Pass
					H	18.57		
1720.00	20050	16QAM	20	H	V	24.25		
					H	17.87		

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	25.23	30.00	Pass
					H	21.23		
1732.50	20175	16QAM	20	H	V	25.64		
					H	20.16		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	23.24	30.00	Pass
					H	19.64		
1732.50	20175	16QAM	20	H	V	23.32		
					H	18.64		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	23.74	30.00	Pass
					H	19.25		
1732.50	20175	16QAM	20	H	V	23.34		
					H	19.65		

High channel

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	24.25	30.00	Pass
					H	22.25		
1745.00	20300	16QAM	20	H	V	24.61		
					H	20.23		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	23.24	30.00	Pass
					H	20.16		
1745.00	20300	16QAM	20	H	V	23.35		
					H	19.65		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	23.25	30.00	Pass
					H	20.16		
1745.00	20300	16QAM	20	H	V	23.24		
					H	20.26		

LTE band 12 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
699.70	23017	QPSK	1.4	H	V	23.04	34.77	Pass
					H	17.94		
699.70	23017	16QAM	1.4	H	V	23.15		
					H	16.96		
1.4MHz(RB size 3& RB offset 0)								
699.70	23017	QPSK	1.4	H	V	23.29	34.77	Pass
					H	16.99		
699.70	23017	16QAM	1.4	H	V	23.43		
					H	17.06		
1.4MHz(RB size 6& RB offset 0)								
699.70	23017	QPSK	1.4	H	V	22.30	34.77	Pass
					H	16.06		
699.70	23017	16QAM	1.4	H	V	22.39		
					H	15.95		

Middle channel

Indoor Channel								
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
707.50	23095	QPSK	1.4	H	V	23.16	34.77	Pass
					H	19.52		
707.50	23095	16QAM	1.4	H	V	23.26		
					H	17.42		
1.4MHz(RB size 3& RB offset 0)								
707.50	23095	QPSK	1.4	H	V	22.24	34.77	Pass
					H	17.36		
707.50	23095	16QAM	1.4	H	V	23.25		
					H	16.52		
1.4MHz(RB size 6& RB offset 0)								
707.50	23095	QPSK	1.4	H	V	22.26	34.77	Pass
					H	17.42		
707.50	23095	16QAM	1.4	H	V	23.36		
					H	16.45		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
715.30	23173	QPSK	1.4	H	V	22.13	34.77	Pass
					H	20.23		
715.30	23173	16QAM	1.4	H	V	23.47		
					H	17.56		
1.4MHz(RB size 3& RB offset 0)								
715.30	23173	QPSK	1.4	H	V	22.24	34.77	Pass
					H	16.36		
715.30	23173	16QAM	1.4	H	V	23.39		
					H	16.58		
1.4MHz(RB size 6& RB offset 0)								
715.30	23173	QPSK	1.4	H	V	22.27	34.77	Pass
					H	18.46		
715.30	23173	16QAM	1.4	H	V	23.22		
					H	17.45		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
704.00	23060	QPSK	10	H	V	23.56	34.77	Pass
					H	16.75		
704.00	23060	16QAM	10	H	V	23.47		
					H	16.82		
10MHz(RB size 25& RB offset 0)								
704.00	23060	QPSK	10	H	V	23.41	34.77	Pass
					H	16.49		
704.00	23060	16QAM	10	H	V	23.45		
					H	16.62		
10MHz(RB size 50& RB offset 0)								
704.00	23060	QPSK	10	H	V	20.74	34.77	Pass
					H	14.10		
704.00	23060	16QAM	10	H	V	20.74		
					H	13.84		

Middle channel

Middle Channel								
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
707.50	23095	QPSK	10	H	V	22.16	34.77	Pass
					H	17.54		
707.50	23095	16QAM	10	H	V	23.26		
					H	17.52		
10MHz(RB size 25& RB offset 0)								
707.50	23095	QPSK	10	H	V	23.65	34.77	Pass
					H	17.24		
707.50	23095	16QAM	10	H	V	22.42		
					H	16.34		
10MHz(RB size 50 & RB offset 0)								
707.50	23095	QPSK	10	H	V	20.16	34.77	Pass
					H	15.79		
707.50	23095	16QAM	10	H	V	20.49		
					H	14.26		

High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
711.00	23130	QPSK	10	H	V	22.02	34.77	Pass
					H	16.34		
711.00	23130	16QAM	10	H	V	22.71		
					H	18.24		
10MHz(RB size 25& RB offset 0)								
711.00	23130	QPSK	10	H	V	22.26	34.77	Pass
					H	16.34		
711.00	23130	16QAM	10	H	V	22.71		
					H	17.42		
10MHz(RB size 50 & RB offset 0)								
711.00	23130	QPSK	10	H	V	20.26	34.77	Pass
					H	16.34		
711.00	23130	16QAM	10	H	V	20.17		
					H	15.22		

**LTE band 17 part
Lowest channel**

Lowest channel								
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
706.50	23755	QPSK	5	H	V	20.13	34.77	Pass
					H	16.24		
706.50	23755	16QAM	5	H	V	21.23		
					H	17.26		
5MHz(RB size 12 & RB offset 0)								
706.50	23755	QPSK	5	H	V	20.25	34.77	Pass
					H	17.64		
706.50	23755	16QAM	5	H	V	21.29		
					H	18.58		
5MHz(RB size 25 & RB offset 0)								
706.50	23755	QPSK	5	H	V	20.26	34.77	Pass
					H	18.54		
706.50	23755	16QAM	5	H	V	21.23		
					H	19.78		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	5	H	V	20.26	34.77	Pass
					H	17.46		
710.00	23790	16QAM	5	H	V	21.22		
					H	16.52		
5MHz(RB size 12 & RB offset 0)								
710.00	23790	QPSK	5	H	V	20.24	34.77	Pass
					H	17.23		
710.00	23790	16QAM	5	H	V	20.30		
					H	18.24		
5MHz(RB size 25 & RB offset 0)								
710.00	23790	QPSK	5	H	V	20.23	34.77	Pass
					H	19.62		
710.00	23790	16QAM	5	H	V	21.24		
					H	19.75		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
713.50	23825	QPSK	5	H	V	20.45	34.77	Pass
					H	16.27		
713.50	23825	16QAM	5	H	V	20.07		
					H	17.24		
5MHz(RB size 12 & RB offset 0)								
713.50	23825	QPSK	5	H	V	20.24	34.77	Pass
					H	17.33		
713.50	23825	16QAM	5	H	V	20.32		
					H	19.42		
5MHz(RB size 25 & RB offset 0)								
713.50	23825	QPSK	5	H	V	20.21	34.77	Pass
					H	19.64		
713.50	23825	16QAM	5	H	V	21.02		
					H	19.63		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
709.00	23780	QPSK	10	H	V	20.29	34.77	Pass
					H	17.33		
709.00	23780	16QAM	10	H	V	20.13		
					H	18.62		
10MHz(RB size 25& RB offset 0)								
709.00	23780	QPSK	10	H	V	20.30	34.77	Pass
					H	18.22		
709.00	23780	16QAM	10	H	V	20.21		
					H	19.34		
10MHz(RB size 50& RB offset 0)								
709.00	23780	QPSK	10	H	V	21.22	34.77	Pass
					H	19.24		
709.00	23780	16QAM	10	H	V	22.02		
					H	19.32		

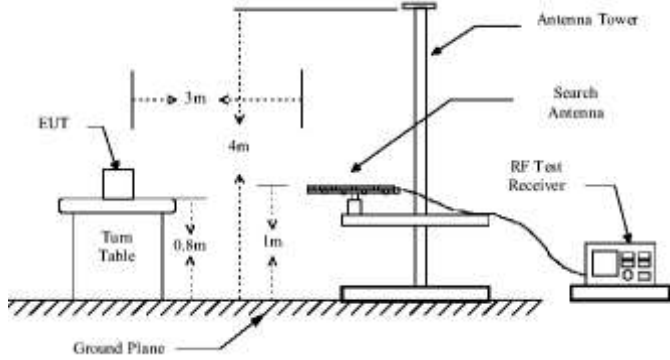
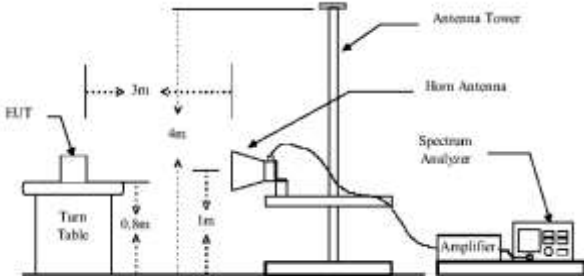
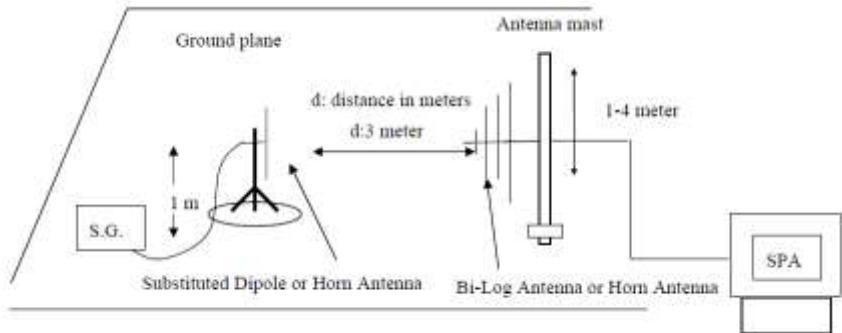
Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	10	H	V	20.16	34.77	Pass
					H	18.52		
710.00	23790	16QAM	10	H	V	21.24		
					H	18.66		
10MHz(RB size 25& RB offset 0)								
710.00	23790	QPSK	10	H	V	20.24	34.77	Pass
					H	19.32		
710.00	23790	16QAM	10	H	V	20.16		
					H	19.75		
10MHz(RB size 50& RB offset 0)								
710.00	23790	QPSK	10	H	V	21.24	34.77	Pass
					H	20.21		
710.00	23790	16QAM	10	H	V	21.34		
					H	20.16		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
711.00	23800	QPSK	10	H	V	20.52	34.77	Pass
					H	19.32		
711.00	23800	16QAM	10	H	V	21.24		
					H	19.20		
10MHz(RB size 25& RB offset 0)								
711.00	23800	QPSK	10	H	V	20.26	34.77	Pass
					H	20.43		
711.00	23800	16QAM	10	H	V	20.19		
					H	19.64		
10MHz(RB size 50& RB offset 0)								
711.00	23800	QPSK	10	H	V	21.23	34.77	Pass
					H	19.40		
711.00	23800	16QAM	10	H	V	20.43		
					H	18.75		

6.11 Field strength of spurious radiation measurement

Test Requirement:	FCC Part 24.238 (a),Part 27.53(g), Part 27.53(m), Part 27.53(h)
Test Method:	FCC part2.1053
Limit:	LTE Band 2, LTE Band 4, LTE Band 12 and LTE Band 17: -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. ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data (worst case):
Below 1GHz:

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

Above 1GHz

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

LTE band 2 part:

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

1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3701.40	Vertical	-38.90	-13.00	Pass
5552.10	V	-38.63		
7402.00	V	-34.03		
3701.40	Horizontal	-43.23		
5552.10	H	-36.79		
7402.00	H	-34.29		
Middle				
3760.00	Vertical	-41.34	-13.00	Pass
5640.00	V	-43.31		
7520.00	V	-35.05		
3760.00	Horizontal	-45.24		
5640.00	H	-40.51		
7520.00	H	-38.54		
Highest				
3816.60	Vertical	-44.21	-13.00	Pass
5724.90	V	-39.76		
7633.20	V	-39.18		
3816.60	Horizontal	-36.51		
5724.90	H	-38.40		
7633.20	H	-39.96		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3703.00	Vertical	-43.36	-13.00	Pass
5554.50	V	-42.58		
7406.00	V	-42.16		
3703.00	Horizontal	-46.23		
5554.50	H	-42.72		
7406.00	H	-40.25		
Middle				
3760.00	Vertical	-39.46	-13.00	Pass
5640.00	V	-39.78		
7520.00	V	-40.21		
3760.00	Horizontal	-46.21		
5640.00	H	-36.21		
7520.00	H	-40.58		
Highest				
3817.00	Vertical	-42.26	-13.00	Pass
5725.50	V	-39.62		
7634.00	V	-37.34		
3817.00	Horizontal	-42.25		
5725.50	H	-40.12		
7634.00	H	-36.72		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3705.00	Vertical	-38.26	-13.00	Pass
5557.50	V	-39.64		
7410.00	V	-35.41		
3705.00	Horizontal	-42.25		
5557.50	H	-37.64		
7410.00	H	-35.26		
Middle				
3760.00	Vertical	-42.21	-13.00	Pass
5640.00	V	-43.26		
7520.00	V	-35.06		
3760.00	Horizontal	-45.21		
5640.00	H	-40.25		
7520.00	H	-39.67		
Highest				
3815.00	Vertical	-45.26	-13.00	Pass
5722.50	V	-40.21		
7630.00	V	-40.36		
3815.00	Horizontal	-37.69		
5722.50	H	-38.52		
7630.00	H	-39.26		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3710.00	Vertical	-42.21	-13.00	Pass
5565.00	V	-43.36		
7420.00	V	-42.58		
3710.00	Horizontal	-46.21		
5565.00	H	-42.75		
7420.00	H	-40.12		
Middle				
3760.00	Vertical	-39.62	-13.00	Pass
5640.00	V	-40.23		
7520.00	V	-40.72		
3760.00	Horizontal	-45.21		
5640.00	H	-36.23		
7520.00	H	-40.02		
Highest				
3810.00	Vertical	-42.16	-13.00	Pass
5715.00	V	-39.62		
7620.00	V	-37.24		
3810.00	Horizontal	-42.58		
5715.00	H	-40.01		
7620.00	H	-36.76		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3715.00	Vertical	-38.26	-13.00	Pass
5572.50	V	-40.51		
7430.00	V	-36.64		
3715.00	Horizontal	-43.25		
5572.50	H	-37.62		
7430.00	H	-35.24		
Middle				
3760.00	Vertical	-42.26	-13.00	Pass
5640.00	V	-43.57		
7520.00	V	-36.61		
3760.00	Horizontal	-45.27		
5640.00	H	-40.23		
7520.00	H	-39.68		
Highest				
3805.00	Vertical	-46.32	-13.00	Pass
5707.50	V	-39.64		
7610.00	V	-40.21		
3805.00	Horizontal	-36.57		
5707.50	H	-38.64		
7610.00	H	-40.12		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3720.00	Vertical	-40.47	-13.00	Pass
5580.00	V	-43.60		
7440.00	V	-42.05		
3720.00	Horizontal	-45.91		
5580.00	H	-42.90		
7440.00	H	-39.04		
Middle				
3760.00	Vertical	-39.64	-13.00	Pass
5640.00	V	-40.05		
7520.00	V	-39.37		
3760.00	Horizontal	-44.76		
5640.00	H	-36.88		
7520.00	H	-39.63		
Highest				
3800.00	Vertical	-41.16	-13.00	Pass
5700.00	V	-39.46		
7600.00	V	-36.93		
3800.00	Horizontal	-43.16		
5700.00	H	-39.33		
7600.00	H	-37.02		

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	-48.54	-13.00	Pass
5132.10	V	-45.73		
6842.80	V	-40.68		
3421.40	Horizontal	-51.61		
5132.10	H	-47.54		
6842.80	H	-41.74		
Middle				
3465.00	Vertical	-48.84	-13.00	Pass
5197.50	V	-51.92		
6930.00	V	-49.93		
3465.00	Horizontal	-50.28		
5197.50	H	-46.39		
6930.00	H	-55.84		
Highest				
3508.60	Vertical	-51.71	-13.00	Pass
5262.90	V	-55.42		
7017.20	V	-53.02		
3508.60	Horizontal	-52.46		
5262.90	H	-53.77		
7017.20	H	-56.34		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3423.00	Vertical	-47.64	-13.00	Pass
5134.50	V	-46.22		
6846.00	V	-50.26		
3423.00	Horizontal	-50.13		
5134.50	H	-49.57		
6846.00	H	-50.25		
Middle				
3465.00	Vertical	-46.21	-13.00	Pass
5197.50	V	-47.52		
6930.00	V	-49.55		
3465.00	Horizontal	-50.13		
5197.50	H	-49.76		
6930.00	H	-47.51		
Highest				
3507.00	Vertical	-49.23	-13.00	Pass
5260.50	V	-48.21		
7014.00	V	-47.61		
3507.00	Horizontal	-50.29		
5260.50	H	-51.23		
7014.00	H	-50.78		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-48.25	-13.00	Pass
5137.50	V	-46.31		
6850.00	V	-40.27		
3425.00	Horizontal	-51.32		
5137.50	H	-47.54		
6850.00	H	-41.52		
Middle				
3465.00	Vertical	-49.67	-13.00	Pass
5197.50	V	-50.23		
6930.00	V	-49.63		
3465.00	Horizontal	-49.58		
5197.50	H	-47.15		
6930.00	H	-54.31		
Highest				
3505.00	Vertical	-52.24	-13.00	Pass
5257.50	V	-54.37		
7010.00	V	-53.26		
3505.00	Horizontal	-52.49		
5257.50	H	-53.14		
7010.00	H	-55.78		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-46.23	-13.00	Pass
5145.00	V	-47.52		
6860.00	V	-50.21		
3430.00	Horizontal	-49.62		
5145.00	H	-51.34		
6860.00	H	-50.23		
Middle				
3465.00	Vertical	-47.69	-13.00	Pass
5197.50	V	-48.21		
6930.00	V	-50.03		
3465.00	Horizontal	-49.62		
5197.50	H	-50.13		
6930.00	H	-48.52		
Highest				
3500.00	Vertical	-50.16	-13.00	Pass
5250.00	V	-49.57		
7000.00	V	-48.25		
3500.00	Horizontal	-50.23		
5250.00	H	-51.47		
7000.00	H	-50.49		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-49.58	-13.00	Pass
5152.50	V	-46.25		
6870.00	V	-40.21		
3435.00	Horizontal	-51.23		
5152.50	H	-47.52		
6870.00	H	-41.25		
Middle				
3465.00	Vertical	-49.65	-13.00	Pass
5197.50	V	-50.21		
6930.00	V	-49.62		
3465.00	Horizontal	-47.16		
5197.50	H	-54.25		
Highest				
3495.00	Vertical	-53.26	-13.00	Pass
5242.50	V	-54.78		
6990.00	V	-54.21		
3495.00	Horizontal	-52.79		
5242.50	H	-53.26		
6990.00	H	-55.48		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3440.00	Vertical	-45.64	-13.00	Pass
5160.00	V	-47.51		
6880.00	V	-49.29		
3440.00	Horizontal	-50.24		
5160.00	H	-51.26		
6880.00	H	-49.63		
Middle				
3465.00	Vertical	-46.25	-13.00	Pass
5197.50	V	-48.22		
6930.00	V	-49.23		
3465.00	Horizontal	-50.19		
5197.50	H	-49.25		
6930.00	H	-48.12		
Highest				
3490.00	Vertical	-50.24	-13.00	Pass
5235.00	V	-49.78		
6980.00	V	-48.15		
3490.00	Horizontal	-50.23		
5235.00	H	-51.69		
6980.00	H	-50.47		

LTE Band 12 Part:

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

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1399.40	Vertical	-48.84	-13	Pass
2099.10	V	-51.92		
2798.80	V	-49.93		
1399.40	Horizontal	-50.28		
2099.10	H	-46.39		
2798.80	H	-55.84		
Middle				
1415.00	Vertical	-51.71	-13	Pass
2122.50	V	-55.41		
2830.00	V	-53.02		
1415.00	Horizontal	-52.46		
2122.50	H	-53.77		
2830.00	H	-51.24		
Highest				
1430.60	Vertical	-57.67	-13	Pass
2145.90	V	-56.46		
2861.20	V	-51.99		
1430.60	Horizontal	-58.17		
2145.90	H	-57.39		
2861.20	H	-52.95		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1401.00	Vertical	-46.25	-13	Pass
2101.50	V	-53.65		
2802.00	V	-54.72		
1401.00	Horizontal	-49.62		
2101.50	H	-52.24		
2802.00	H	-53.31		
Middle				
1415.00	Vertical	-53.24	-13	Pass
2122.50	V	-54.21		
2830.00	V	-53.26		
1415.00	Horizontal	-55.54		
2122.50	H	-54.27		
2830.00	H	-52.19		
Highest				
1429.00	Vertical	-51.22	-13	Pass
2143.50	V	-53.26		
2858.00	V	-52.12		
1429.00	Horizontal	-53.24		
2143.50	H	-57.54		
2858.00	H	-51.29		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1403.00	Vertical	-47.24	-13	Pass
2104.50	V	-52.23		
2806.00	V	-50.21		
1403.00	Horizontal	-49.62		
2104.50	H	-47.21		
2806.00	H	-55.23		
Middle				
1415.00	Vertical	-51.22	-13	Pass
2122.50	V	-55.74		
2830.00	V	-53.26		
1415.00	Horizontal	-52.47		
2122.50	H	-53.19		
2830.00	H	-51.22		
Highest				
1427.00	Vertical	-46.25	-13	Pass
2410.50	V	-57.24		
2854.00	V	-51.22		
1427.00	Horizontal	-58.63		
2410.50	H	-56.24		
2854.00	H	-52.23		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1408.00	Vertical	-47.13	-13	Pass
2112.00	V	-54.10		
2816.00	V	-53.26		
1408.00	Horizontal	-50.81		
2112.00	H	-53.32		
2816.00	H	-54.61		
Middle				
1415.00	Vertical	-54.93	-13	Pass
2122.50	V	-55.44		
2830.00	V	-53.33		
1415.00	Horizontal	-56.31		
2122.50	H	-55.55		
2830.00	H	-52.72		
Highest				
1422.00	Vertical	-51.46	-13	Pass
2133.00	V	-53.65		
2844.00	V	-52.57		
1422.00	Horizontal	-53.82		
2133.00	H	-58.59		
2844.00	H	-52.86		

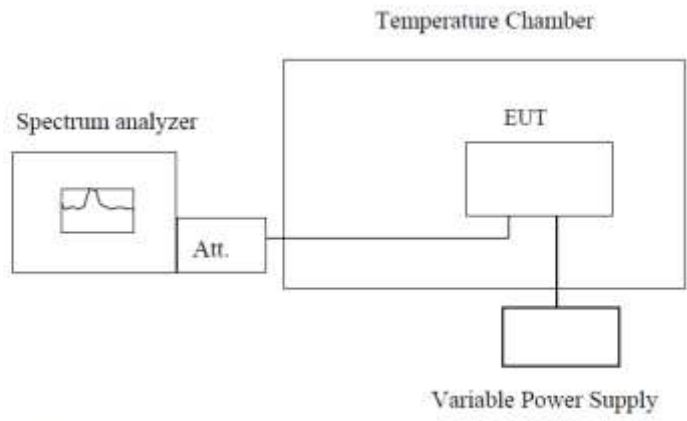
LTE Band 17 Part:

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				
1413.00	Vertical	-57.01	-13.00	Pass
2119.50	V	-56.54		
2826.00	V	-54.98		
1413.00	Horizontal	-58.20		
2119.50	H	-54.39		
2826.00	H	-52.34		
Middle				
1420.00	Vertical	-51.76	-13.00	Pass
2130.00	V	-54.72		
2840.00	V	-51.81		
1420.00	Horizontal	-54.52		
2130.00	H	-56.04		
2840.00	H	-51.68		
Highest				
1427.00	Vertical	-50.32	-13.00	Pass
2140.50	V	-57.86		
2854.00	V	-53.47		
1427.00	Horizontal	-50.46		
2140.50	H	-58.98		
2854.00	H	-51.76		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1418.00	Vertical	-56.24	-13.00	Pass
2127.00	V	-57.61		
2836.00	V	-54.22		
1418.00	Horizontal	-58.79		
2127.00	H	-54.21		
2836.00	H	-52.36		
Middle				
1420.00	Vertical	-52.12	-13.00	Pass
2130.00	V	-54.20		
2840.00	V	-51.34		
1420.00	Horizontal	-53.31		
2130.00	H	-56.27		
2840.00	H	-51.22		
Highest				
1422.00	Vertical	-51.42	-13.00	Pass
2133.00	V	-57.61		
2844.00	V	-53.34		
1422.00	Horizontal	-50.20		
2133.00	H	-58.73		
2844.00	H	-51.43		

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 2(QPSK):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	187	0.099468	±2.5	Pass
	-20	103	0.054787		
	-10	155	0.082447		
	0	146	0.077660		
	10	135	0.071809		
	20	149	0.079255		
	30	122	0.064894		
	40	137	0.072872		
	50	150	0.079787		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	166	0.088298	±2.5	Pass
	-20	142	0.075532		
	-10	105	0.055851		
	0	147	0.078191		
	10	136	0.072340		
	20	125	0.066489		
	30	104	0.055319		
	40	116	0.061702		
	50	156	0.082979		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	170	0.090426	±2.5	Pass
	-20	136	0.072340		
	-10	145	0.077128		
	0	169	0.089894		
	10	152	0.080851		
	20	142	0.075532		
	30	135	0.071809		
	40	142	0.075532		
	50	106	0.056383		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	177	0.094149	±2.5	Pass
	-20	145	0.077128		
	-10	152	0.080851		
	0	136	0.072340		
	10	142	0.075532		
	20	125	0.066489		
	30	123	0.065426		
	40	105	0.055851		
	50	146	0.077660		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	143	0.076064	±2.5	Pass
	-20	162	0.086170		
	-10	152	0.080851		
	0	143	0.076064		
	10	160	0.085106		
	20	138	0.073404		
	30	145	0.077128		
	40	128	0.068085		
	50	107	0.056915		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	168	0.089362	±2.5	Pass
	-20	128	0.068085		
	-10	142	0.075532		
	0	135	0.071809		
	10	146	0.077660		
	20	155	0.082447		
	30	170	0.090426		
	40	146	0.077660		
	50	128	0.068085		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	169	0.089894	±2.5	Pass
	-20	178	0.094681		
	-10	145	0.077128		
	0	145	0.077128		
	10	135	0.071809		
	20	126	0.067021		
	30	145	0.077128		
	40	128	0.068085		
	50	117	0.062234		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	175	0.093085	±2.5	Pass
	-20	166	0.088298		
	-10	145	0.077128		
	0	128	0.068085		
	10	140	0.074468		
	20	136	0.072340		
	30	125	0.066489		
	40	149	0.079255		
	50	145	0.077128		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	163	0.086702	±2.5	Pass
	-20	105	0.055851		
	-10	124	0.065957		
	0	115	0.061170		
	10	108	0.057447		
	20	123	0.065426		
	30	134	0.071277		
	40	147	0.078191		
	50	126	0.067021		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	146	0.077660	±2.5	Pass
	-20	105	0.055851		
	-10	123	0.065426		
	0	119	0.063298		
	10	127	0.067553		
	20	104	0.055319		
	30	126	0.067021		
	40	130	0.069149		
	50	122	0.064894		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	169	0.089894	±2.5	Pass
	-20	152	0.080851		
	-10	134	0.071277		
	0	125	0.066489		
	10	116	0.061702		
	20	107	0.056915		
	30	129	0.068617		
	40	135	0.071809		
	50	124	0.065957		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	144	0.076596	±2.5	Pass
	-20	132	0.070213		
	-10	120	0.063830		
	0	116	0.061702		
	10	105	0.055851		
	20	124	0.065957		
	30	152	0.080851		
	40	104	0.055319		
	50	136	0.072340		

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	187	0.107937	±2.5	Pass
	-20	136	0.078499		
	-10	152	0.087734		
	0	142	0.081962		
	10	170	0.098124		
	20	166	0.095815		
	30	145	0.083694		
	40	125	0.072150		
	50	136	0.078499		
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	179	0.103319	±2.5	Pass
	-20	158	0.091198		
	-10	163	0.094084		
	0	152	0.087734		
	10	145	0.083694		
	20	128	0.073882		
	30	133	0.076768		
	40	128	0.073882		
	50	170	0.098124		
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	154	0.088889	±2.5	Pass
	-20	136	0.078499		
	-10	128	0.073882		
	0	107	0.061760		
	10	124	0.071573		
	20	105	0.060606		
	30	122	0.070418		
	40	134	0.077345		
	50	156	0.090043		

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	171	0.098701	±2.5	Pass
	-20	125	0.072150		
	-10	136	0.078499		
	0	145	0.083694		
	10	142	0.081962		
	20	133	0.076768		
	30	150	0.086580		
	40	146	0.084271		
	50	158	0.091198		
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	167	0.096392	±2.5	Pass
	-20	145	0.083694		
	-10	125	0.072150		
	0	134	0.077345		
	10	122	0.070418		
	20	148	0.085426		
	30	145	0.083694		
	40	106	0.061183		
	50	128	0.073882		
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	188	0.108514	±2.5	Pass
	-20	167	0.096392		
	-10	155	0.089466		
	0	143	0.082540		
	10	125	0.072150		
	20	139	0.080231		
	30	140	0.080808		
	40	128	0.073882		
	50	147	0.084848		

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	135	0.077922		
	-10	155	0.089466		
	0	124	0.071573		
	10	105	0.060606		
	20	114	0.065801		
	30	123	0.070996		
	40	107	0.061760		
	50	122	0.070418		
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	180	0.103896	±2.5	Pass
	-20	163	0.094084		
	-10	145	0.083694		
	0	125	0.072150		
	10	132	0.076190		
	20	122	0.070418		
	30	141	0.081385		
	40	136	0.078499		
	50	125	0.072150		
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	146	0.084271	±2.5	Pass
	-20	122	0.070418		
	-10	103	0.059452		
	0	124	0.071573		
	10	115	0.066378		
	20	116	0.066955		
	30	107	0.061760		
	40	126	0.072727		
	50	142	0.081962		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	175	0.101010	±2.5	Pass
	-20	136	0.078499		
	-10	125	0.072150		
	0	140	0.080808		
	10	111	0.064069		
	20	135	0.077922		
	30	128	0.073882		
	40	146	0.084271		
	50	122	0.070418		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	163	0.094084	±2.5	Pass
	-20	155	0.089466		
	-10	142	0.081962		
	0	102	0.058874		
	10	113	0.065224		
	20	146	0.084271		
	30	155	0.089466		
	40	125	0.072150		
	50	134	0.077345		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	142	0.081962	±2.5	Pass
	-20	122	0.070418		
	-10	103	0.059452		
	0	122	0.070418		
	10	124	0.071573		
	20	107	0.061760		
	30	136	0.078499		
	40	141	0.081385		
	50	108	0.062338		

LTE Band 12(QPSK):

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	167	0.236042	±2.5	Pass
	-20	152	0.214841		
	-10	142	0.200707		
	0	133	0.187986		
	10	125	0.176678		
	20	142	0.200707		
	30	150	0.212014		
	40	123	0.173852		
	50	114	0.161131		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	163	0.230389	±2.5	Pass
	-20	155	0.219081		
	-10	141	0.199293		
	0	122	0.172438		
	10	130	0.183746		
	20	114	0.161131		
	30	107	0.151237		
	40	122	0.172438		
	50	139	0.196466		
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	177	0.250177	±2.5	Pass
	-20	135	0.190813		
	-10	125	0.176678		
	0	136	0.192226		
	10	142	0.200707		
	20	105	0.148410		
	30	144	0.203534		
	40	135	0.190813		
	50	155	0.219081		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	166	0.234629	±2.5	Pass
	-20	125	0.176678		
	-10	142	0.200707		
	0	102	0.144170		
	10	116	0.163958		
	20	134	0.189399		
	30	125	0.176678		
	40	144	0.203534		
	50	126	0.178092		

LTE Band 12(16QAM):

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	142	0.200707	±2.5	Pass
	-20	102	0.144170		
	-10	122	0.172438		
	0	135	0.190813		
	10	155	0.219081		
	20	124	0.175265		
	30	117	0.165371		
	40	123	0.173852		
	50	125	0.176678		

Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	152	0.214841	±2.5	Pass
	-20	141	0.199293		
	-10	133	0.187986		
	0	105	0.148410		
	10	116	0.163958		
	20	127	0.179505		
	30	125	0.176678		
	40	126	0.178092		
	50	107	0.151237		

Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	190	0.268551	2.5	Pass
	-20	152	0.214841		
	-10	138	0.195053		
	0	174	0.245936		
	10	169	0.238869		
	20	185	0.261484		
	30	175	0.247350		
	40	126	0.178092		
	50	133	0.187986		

Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	177	0.250177	2.5	Pass
	-20	163	0.230389		
	-10	155	0.219081		
	0	128	0.180919		
	10	136	0.192226		
	20	145	0.204947		
	30	122	0.172438		
	40	108	0.152650		
	50	147	0.207774		

LTE Band 17(QPSK):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	166	0.233803	±2.5	Pass
	-20	125	0.176056		
	-10	142	0.200000		
	0	132	0.185915		
	10	102	0.143662		
	20	115	0.161972		
	30	122	0.171831		
	40	140	0.197183		
	50	113	0.159155		

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	173	0.243662	±2.5	Pass
	-20	152	0.214085		
	-10	142	0.200000		
	0	133	0.187324		
	10	125	0.176056		
	20	146	0.205634		
	30	142	0.200000		
	40	135	0.190141		
	50	166	0.233803		

LTE Band 17(16QAM):

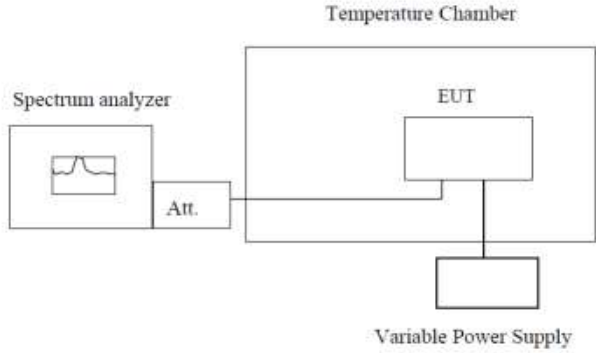
Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	157	0.221127	±2.5	Pass
	-20	133	0.187324		
	-10	125	0.176056		
	0	112	0.157746		
	10	104	0.146479		
	20	125	0.176056		
	30	136	0.191549		
	40	142	0.200000		
	50	133	0.187324		

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	136	0.191549	±2.5	Pass
	-20	142	0.200000		
	-10	140	0.197183		
	0	122	0.171831		
	10	134	0.188732		
	20	115	0.161972		
	30	107	0.150704		
	40	126	0.177465		
	50	138	0.194366		

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 2(QPSK):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	62	0.032979	±2.5	Pass
	3.80	52	0.027660		
	3.50	90	0.047872		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	77	0.040957	±2.5	Pass
	3.80	84	0.044681		
	3.50	59	0.031383		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	98	0.052128	±2.5	Pass
	3.80	79	0.042021		
	3.50	68	0.036170		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	77	0.040957	±2.5	Pass
	3.80	80	0.042553		
	3.50	49	0.026064		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	66	0.035106	±2.5	Pass
	3.80	80	0.042553		
	3.50	59	0.031383		
Reference Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	70	0.037234	±2.5	Pass
	3.80	48	0.025532		
	3.50	90	0.047872		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	88	0.046809	±2.5	Pass
	3.80	75	0.039894		
	3.50	92	0.048936		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	85	0.045213	±2.5	Pass
	3.80	76	0.040426		
	3.50	66	0.035106		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	68	0.036170	±2.5	Pass
	3.80	59	0.031383		
	3.50	80	0.042553		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	70	0.037234	±2.5	Pass
	3.80	48	0.025532		
	3.50	88	0.046809		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	68	0.036170	±2.5	Pass
	3.80	80	0.042553		
	3.50	79	0.042021		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	88	0.046809	±2.5	Pass
	3.80	59	0.031383		
	3.50	70	0.037234		

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	4.35	68	0.039250	±2.5	Pass
	3.80	55	0.031746		
	3.50	70	0.040404		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	78	0.045022	±2.5	Pass
	3.80	77	0.044444		
	3.50	84	0.048485		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	85	0.049062	±2.5	Pass
	3.80	59	0.034055		
	3.50	74	0.042713		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	69	0.039827	±2.5	Pass
	3.80	85	0.049062		
	3.50	77	0.044444		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	68	0.039250	±2.5	Pass
	3.80	48	0.027706		
	3.50	59	0.034055		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	63	0.036364	±2.5	Pass
	3.80	80	0.046176		
	3.50	71	0.040981		

LTE Band 4(16QAM):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	99	0.057143	±2.5	Pass
	3.80	85	0.049062		
	3.50	70	0.040404		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	88	0.050794	±2.5	Pass
	3.80	77	0.044444		
	3.50	79	0.045599		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	94	0.054257	±2.5	Pass
	3.80	57	0.032900		
	3.50	63	0.036364		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	74	0.042713	±2.5	Pass
	3.80	80	0.046176		
	3.50	56	0.032323		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	79	0.045599	±2.5	Pass
	3.80	88	0.050794		
	3.50	64	0.036941		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	48	0.027706	±2.5	Pass
	3.80	57	0.032900		
	3.50	66	0.038095		

LTE Band 12(QPSK):

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	67	0.094700	±2.5	Pass
	3.80	48	0.067845		
	3.50	90	0.127208		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	85	0.120141	±2.5	Pass
	3.80	74	0.104594		
	3.50	63	0.089046		
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	70	0.098940	±2.5	Pass
	3.80	58	0.081979		
	3.50	49	0.069258		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	91	0.128622	±2.5	Pass
	3.80	88	0.124382		
	3.50	77	0.108834		

LTE Band 12(16QAM):

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	68	0.096113	±2.5	Pass
	3.80	80	0.113074		
	3.50	49	0.069258		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	75	0.106007	±2.5	Pass
	3.80	80	0.113074		
	3.50	49	0.069258		
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	39	0.055124	±2.5	Pass
	3.80	48	0.067845		
	3.50	70	0.098940		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	84	0.118728	±2.5	Pass
	3.80	57	0.080565		
	3.50	92	0.130035		

LTE Band 17(QPSK):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	77	0.108451	±2.5	Pass
	3.80	84	0.118310		
	3.50	59	0.083099		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	67	0.094366	±2.5	Pass
	3.80	48	0.067606		
	3.50	59	0.083099		

LTE Band 17(16QAM):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	48	0.067606	±2.5	Pass
	3.80	80	0.112676		
	3.50	59	0.083099		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.35	67	0.094366	±2.5	Pass
	3.80	49	0.069014		
	3.50	88	0.123944		