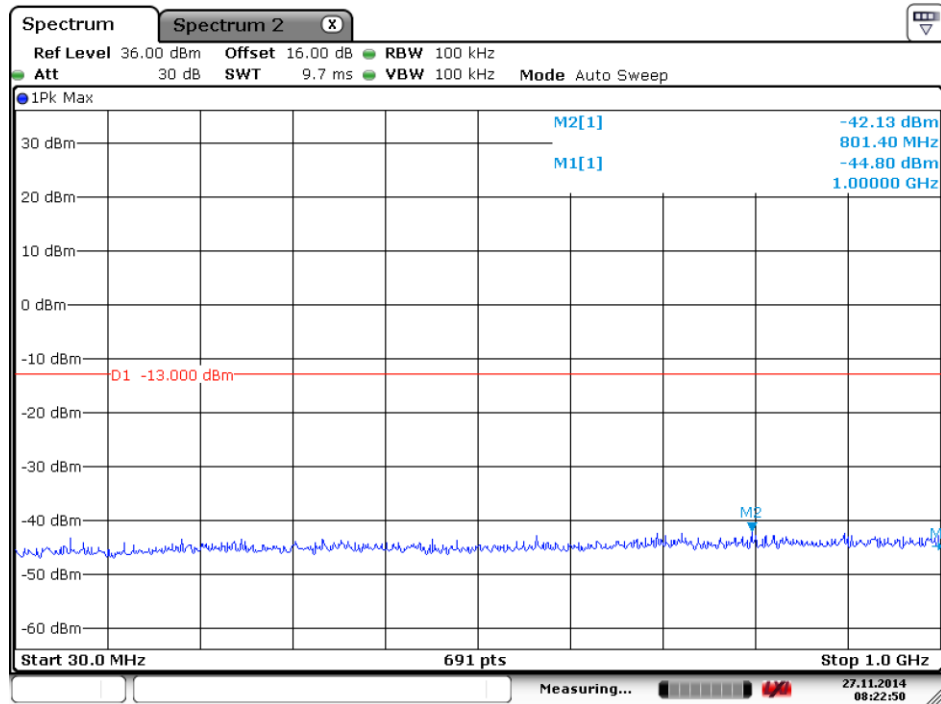
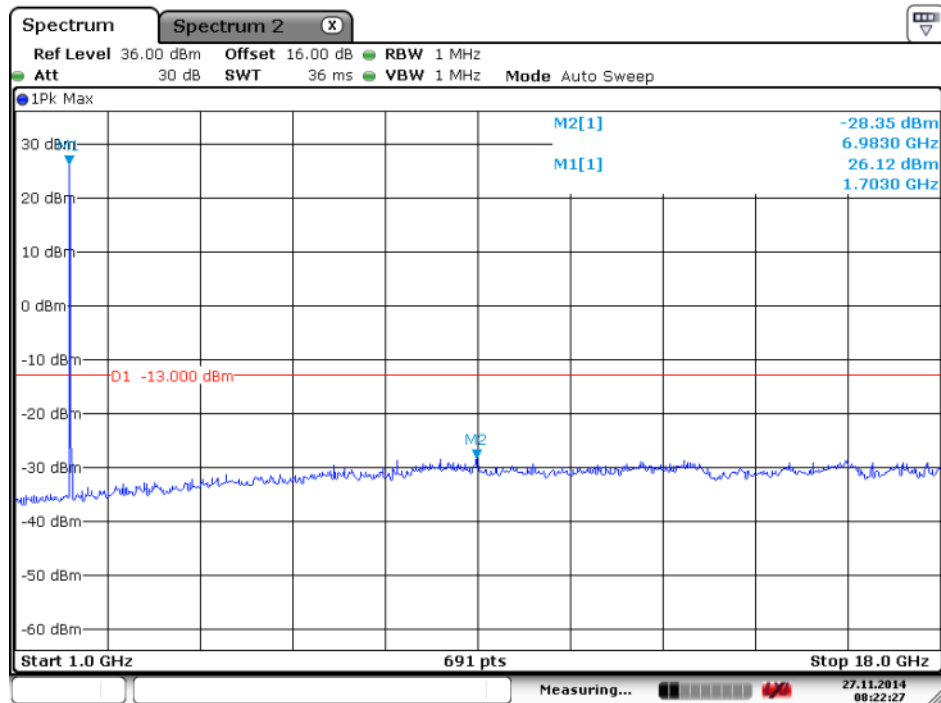


|           |            |            |                |
|-----------|------------|------------|----------------|
| Band      | LTE Band 4 | Channel    | Ch 20393(High) |
| Bandwidth | 1.4MHz     | Modulation | QPSK           |



Date: 27.NOV.2014 08:22:50

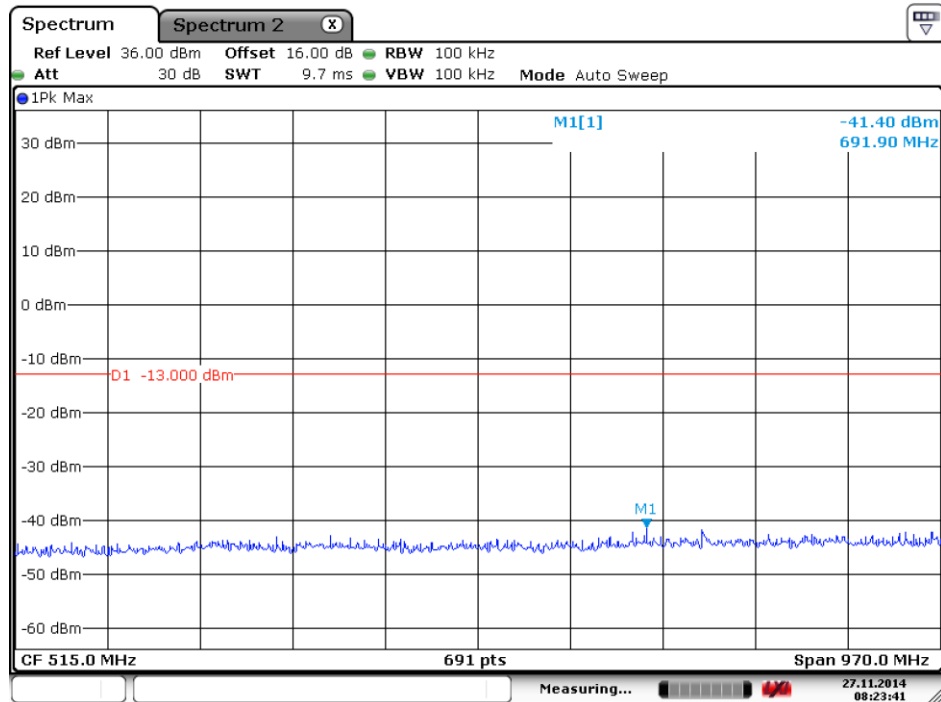
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



Date: 27.NOV.2014 08:22:27

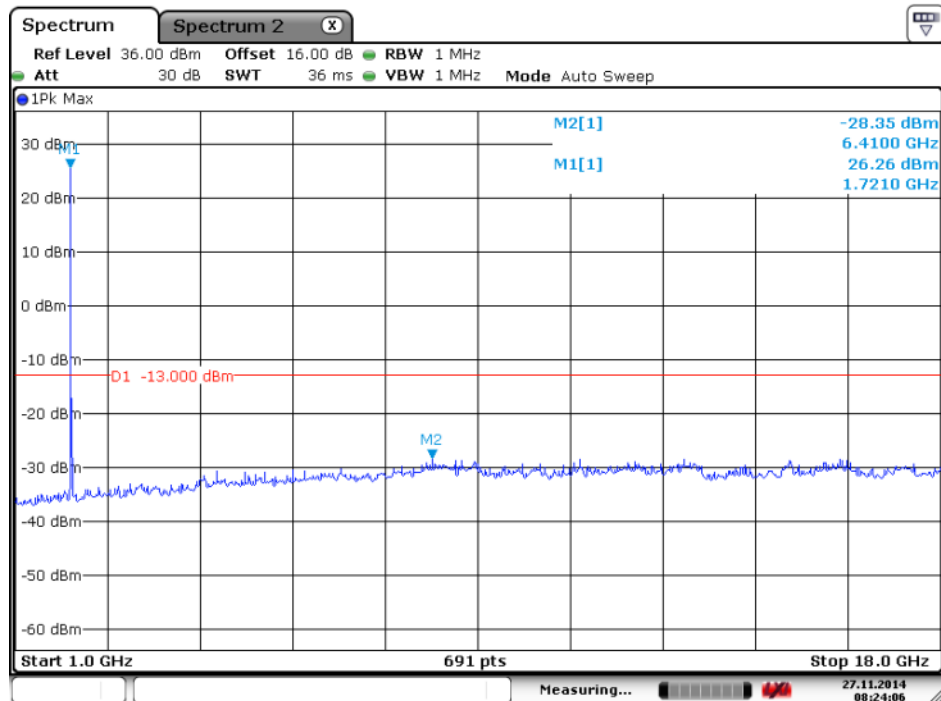
QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

|           |            |            |               |
|-----------|------------|------------|---------------|
| Band      | LTE Band 4 | Channel    | Ch 19965(Low) |
| Bandwidth | 3MHz       | Modulation | QPSK          |



Date: 27.NOV.2014 08:23:40

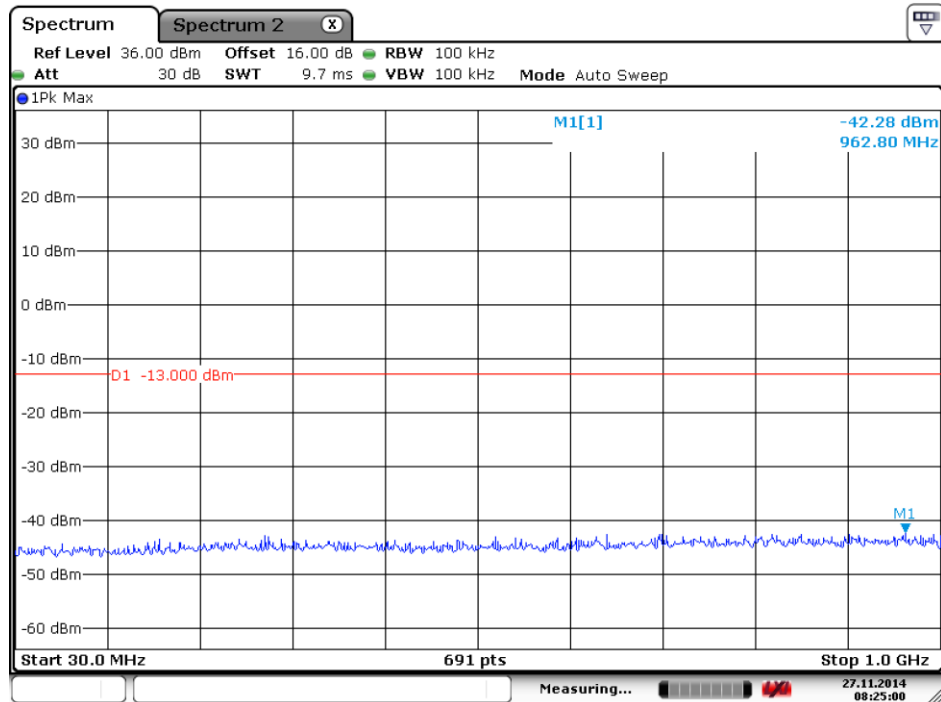
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



Date: 27.NOV.2014 08:24:06

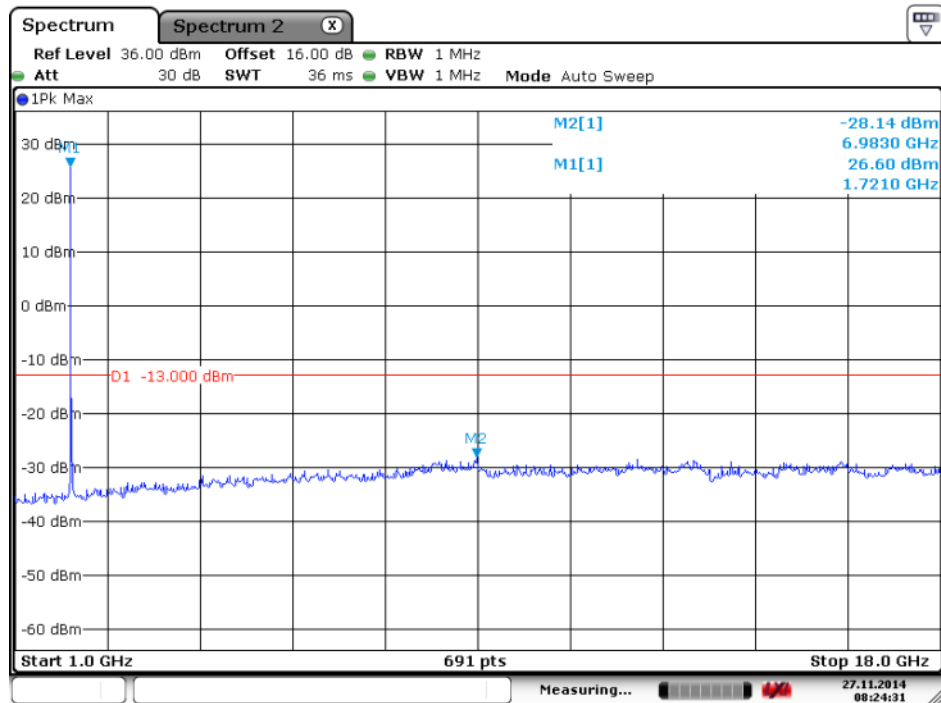
QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

|           |            |            |                  |
|-----------|------------|------------|------------------|
| Band      | LTE Band 4 | Channel    | Ch 20175(Middle) |
| Bandwidth | 3MHz       | Modulation | QPSK             |



Date: 27.NOV.2014 08:25:00

QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)

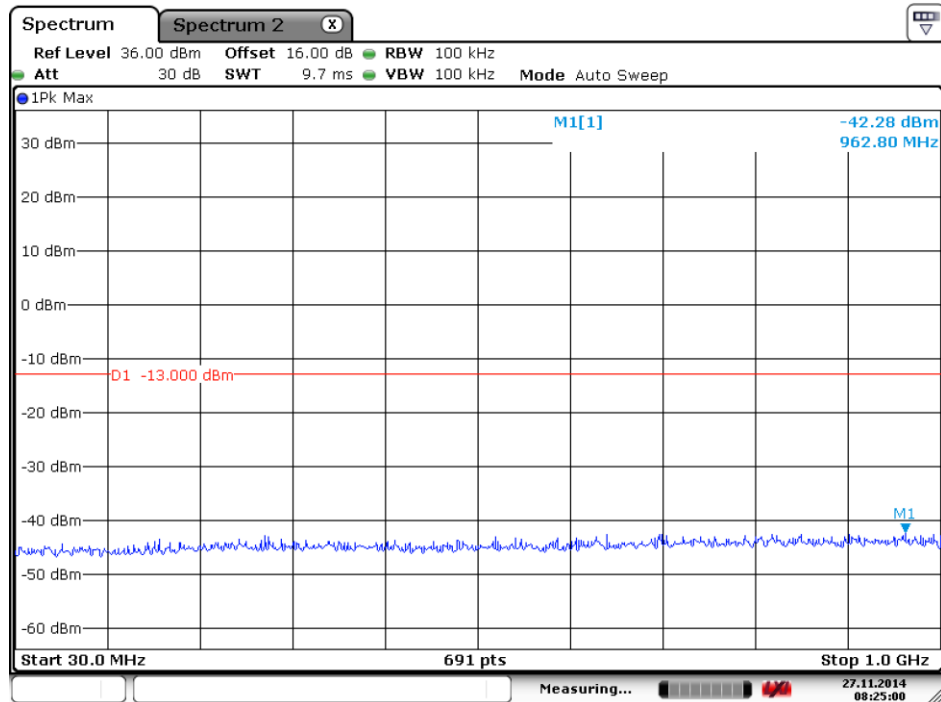


Date: 27.NOV.2014 08:24:31

QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

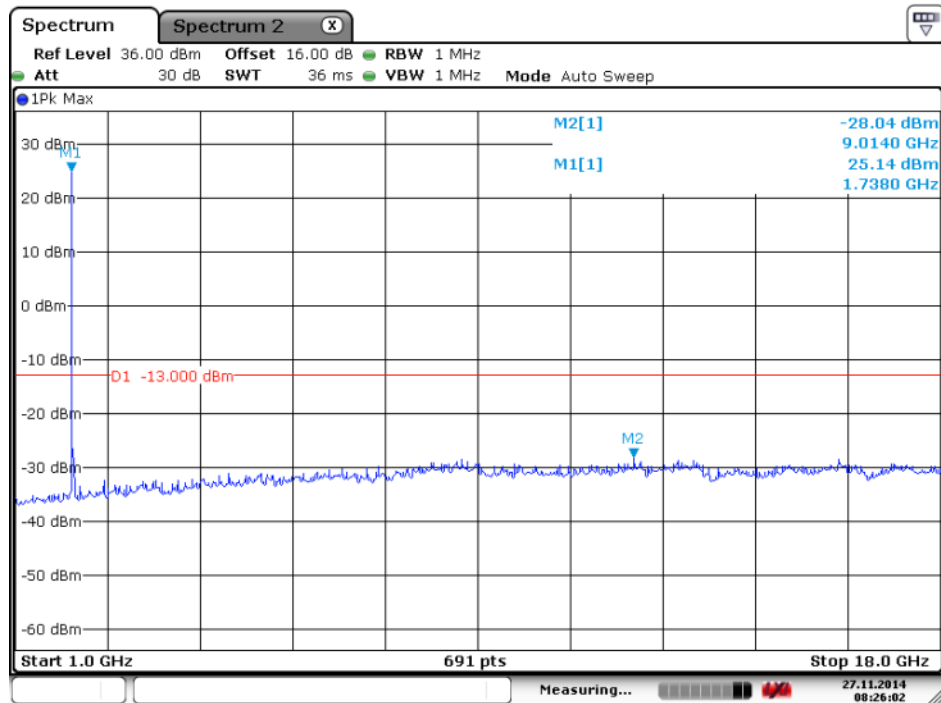


|           |            |            |                |
|-----------|------------|------------|----------------|
| Band      | LTE Band 4 | Channel    | Ch 20385(High) |
| Bandwidth | 3MHz       | Modulation | QPSK           |



Date: 27.NOV.2014 08:25:00

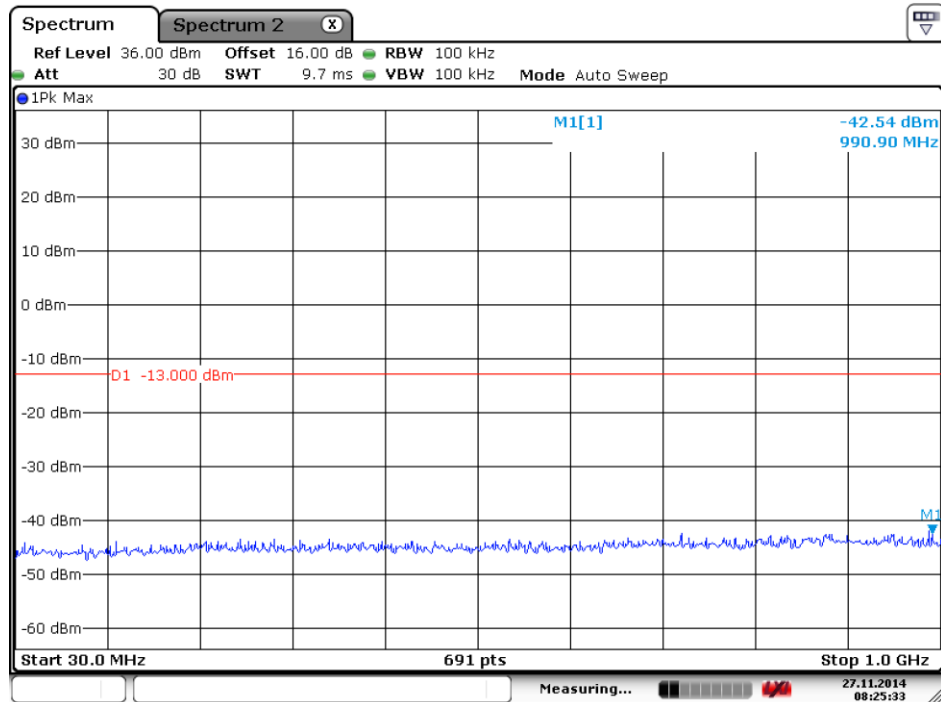
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



Date: 27.NOV.2014 08:26:02

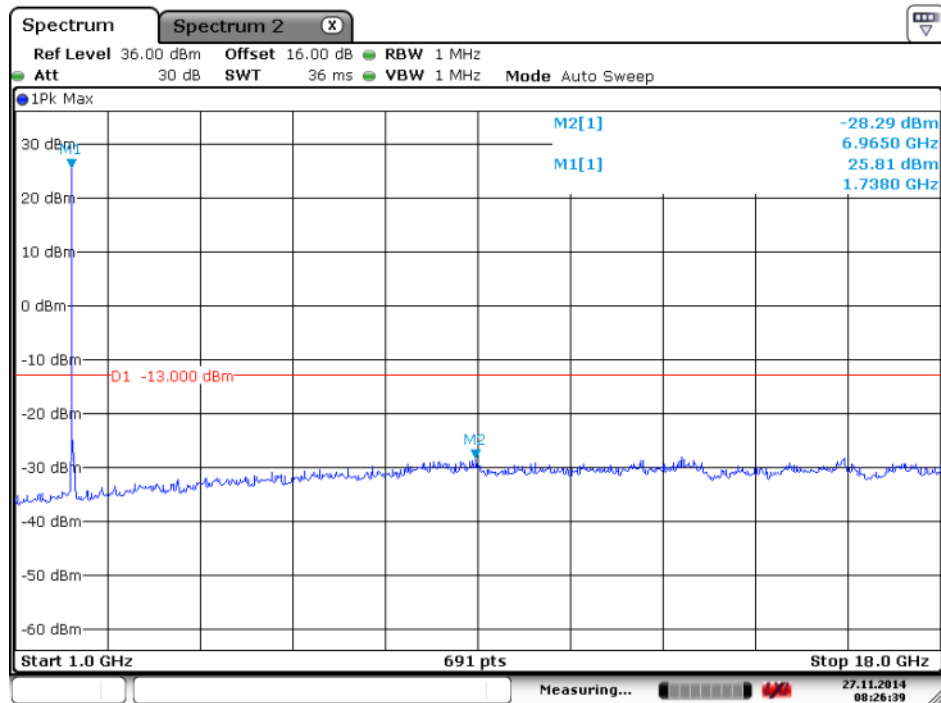
QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

|           |            |            |               |
|-----------|------------|------------|---------------|
| Band      | LTE Band 4 | Channel    | Ch 19975(Low) |
| Bandwidth | 5MHz       | Modulation | QPSK          |



Date: 27.NOV.2014 08:25:33

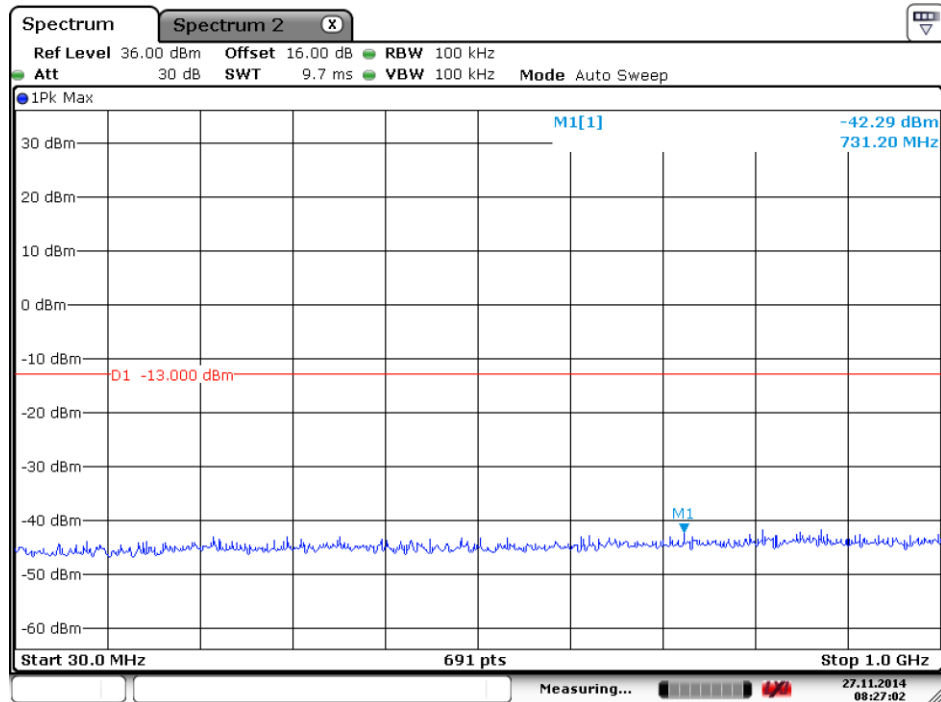
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



Date: 27.NOV.2014 08:26:40

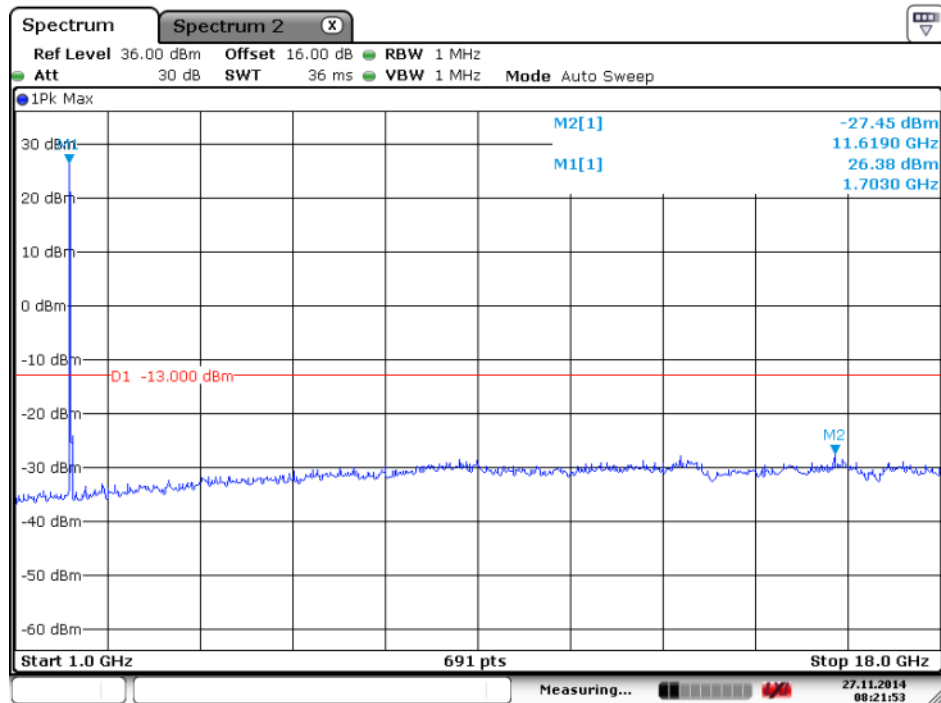
QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

|           |            |            |                  |
|-----------|------------|------------|------------------|
| Band      | LTE Band 4 | Channel    | Ch 20175(Middle) |
| Bandwidth | 5MHz       | Modulation | QPSK             |



Date: 27.NOV.2014 08:27:02

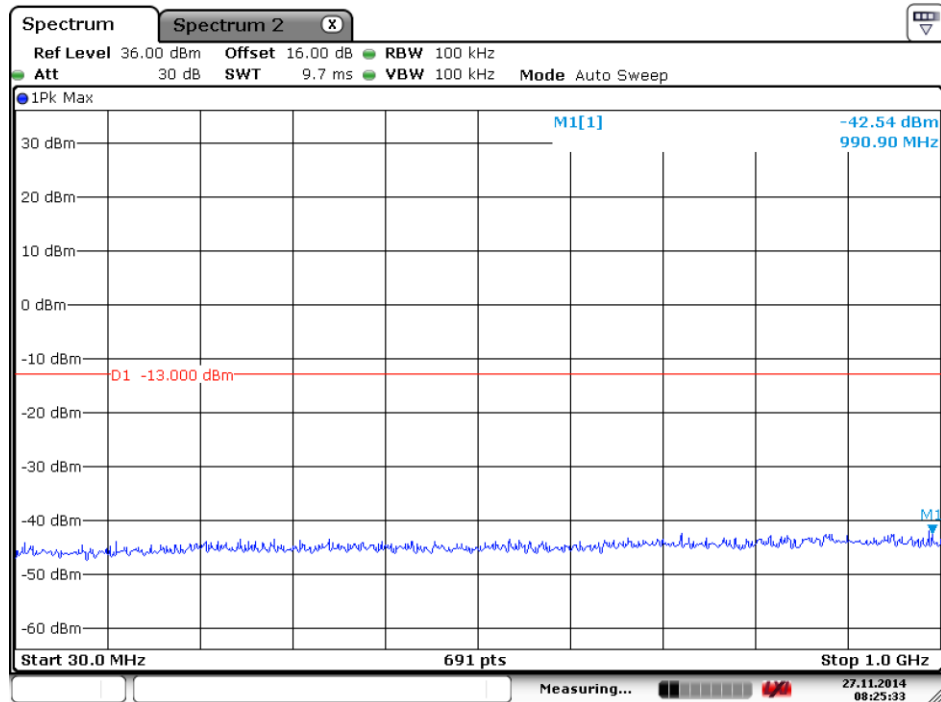
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



Date: 27.NOV.2014 08:21:53

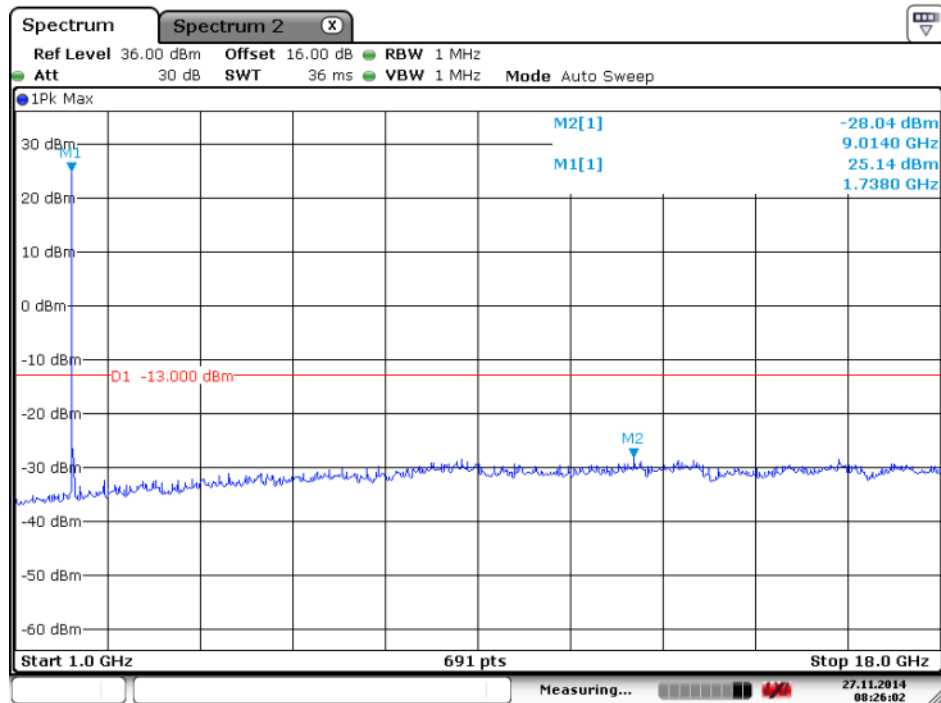
QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

|           |            |            |                |
|-----------|------------|------------|----------------|
| Band      | LTE Band 4 | Channel    | Ch 20375(High) |
| Bandwidth | 5MHz       | Modulation | QPSK           |



Date: 27.NOV.2014 08:25:33

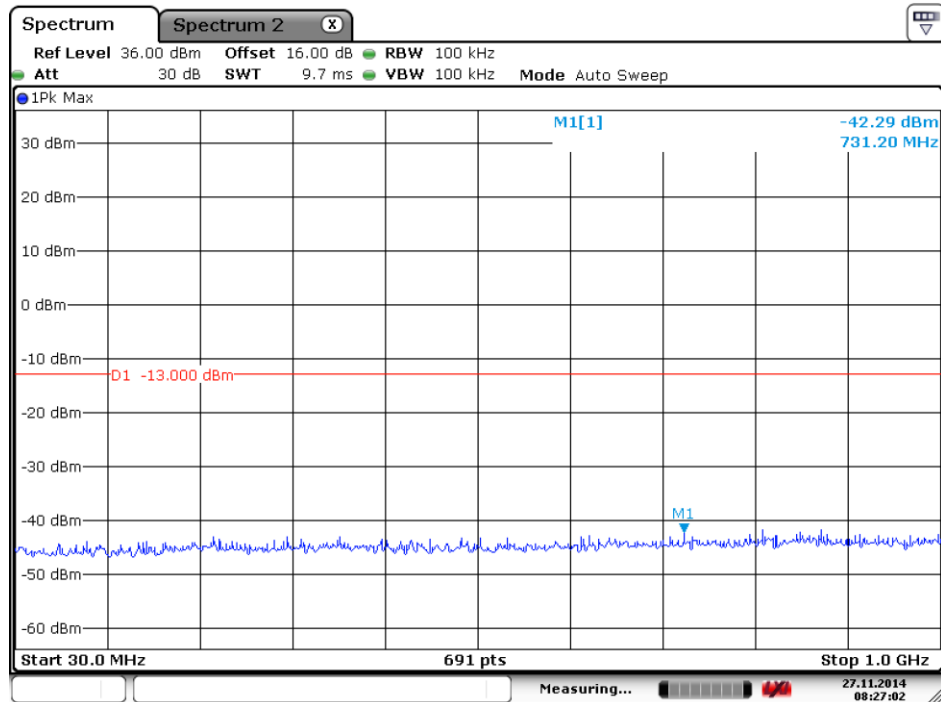
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



Date: 27.NOV.2014 08:26:02

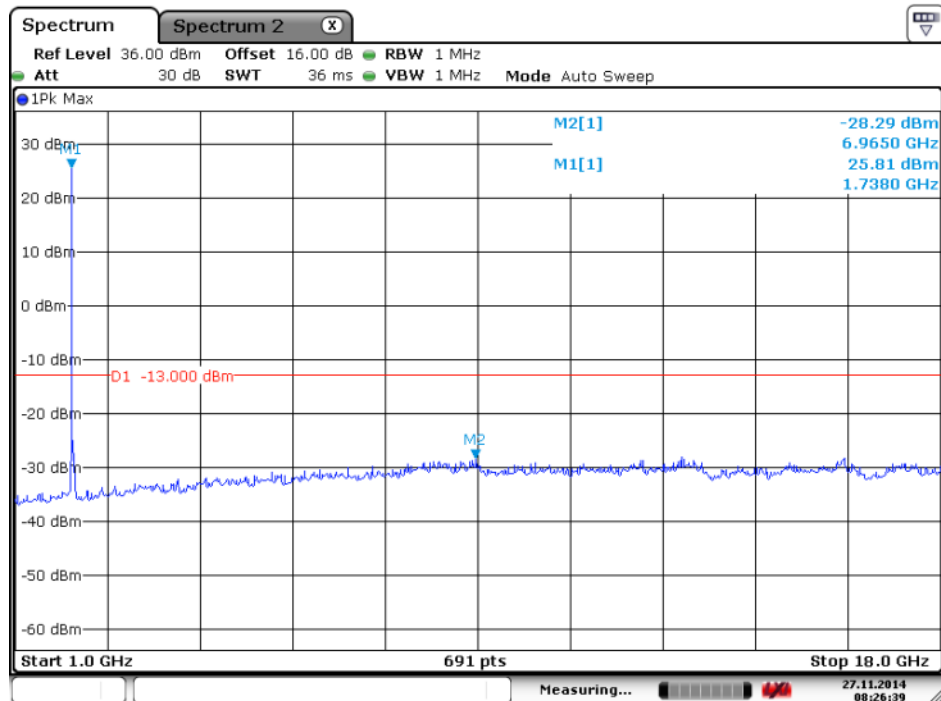
QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

|           |            |            |               |
|-----------|------------|------------|---------------|
| Band      | LTE Band 4 | Channel    | Ch 20000(Low) |
| Bandwidth | 10MHz      | Modulation | QPSK          |



Date: 27.NOV.2014 08:27:02

QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)

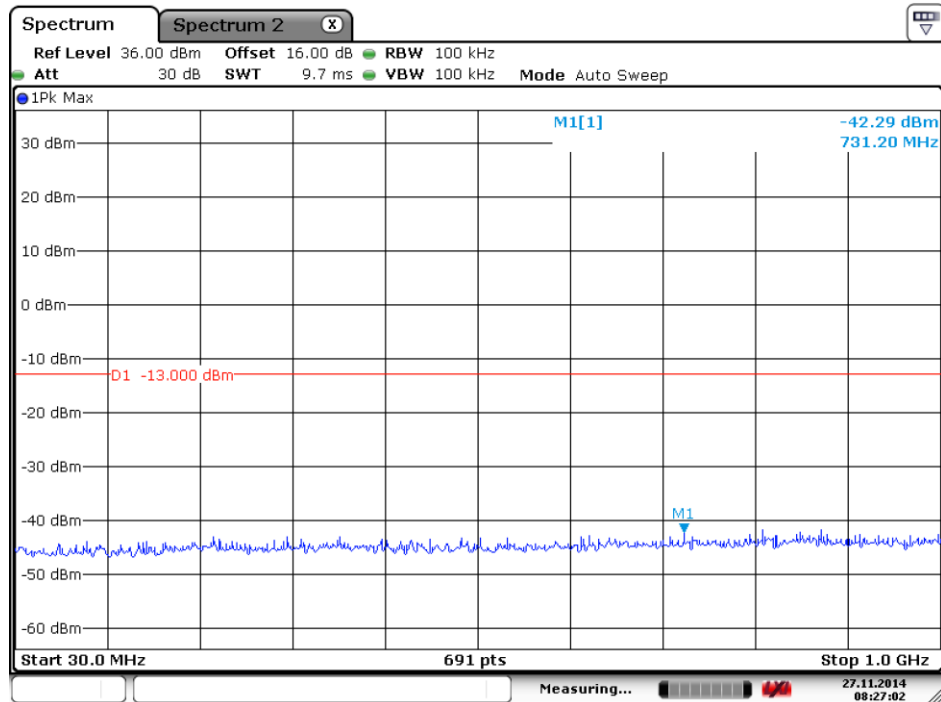


Date: 27.NOV.2014 08:26:40

QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

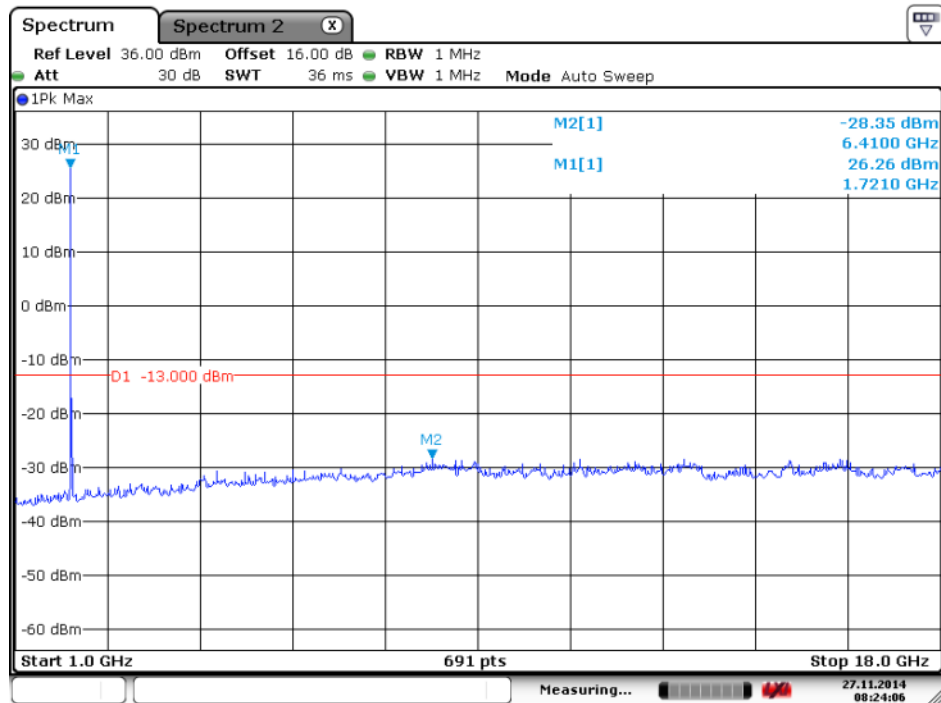


|           |            |            |                  |
|-----------|------------|------------|------------------|
| Band      | LTE Band 4 | Channel    | Ch 20175(Middle) |
| Bandwidth | 10MHz      | Modulation | QPSK             |



Date: 27.NOV.2014 08:27:02

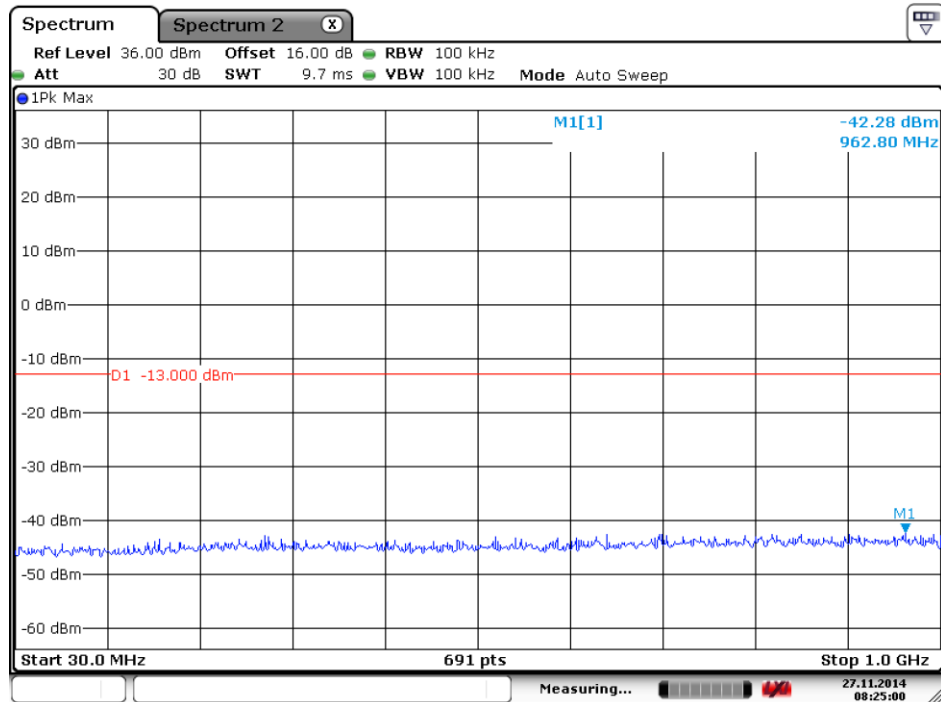
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



Date: 27.NOV.2014 08:24:06

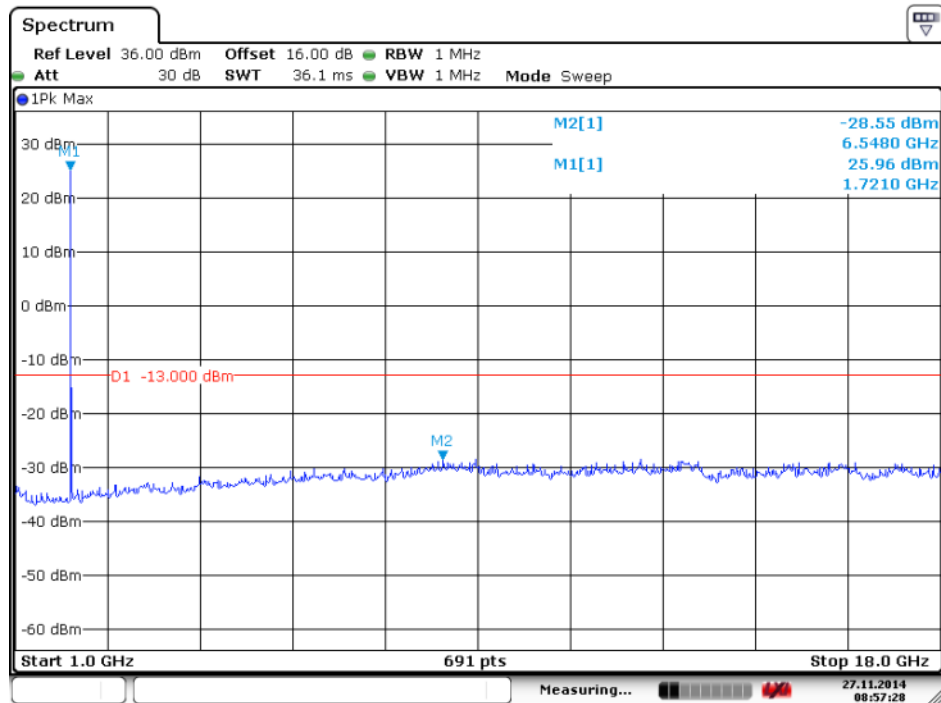
QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

|           |            |            |                |
|-----------|------------|------------|----------------|
| Band      | LTE Band 4 | Channel    | Ch 20350(High) |
| Bandwidth | 10MHz      | Modulation | QPSK           |



Date: 27.NOV.2014 08:25:00

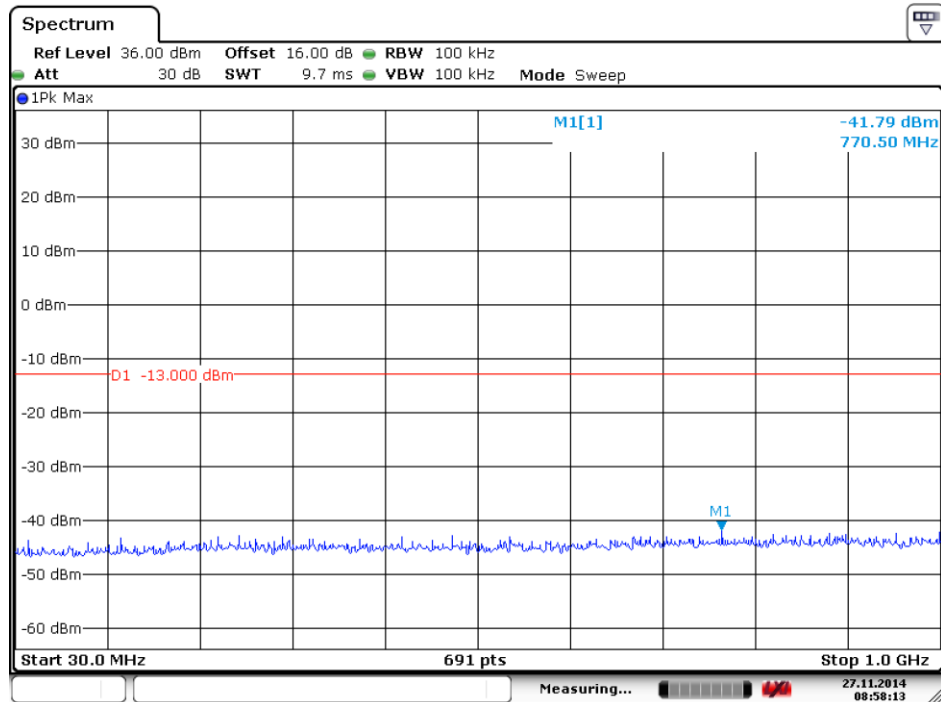
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



Date: 27.NOV.2014 08:57:28

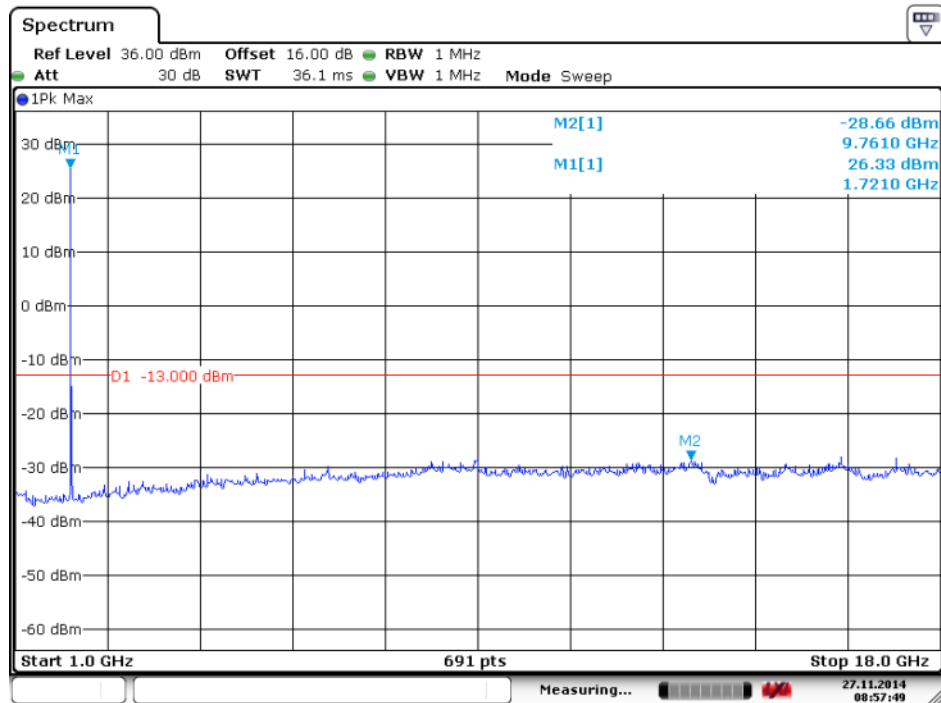
QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

|           |            |            |               |
|-----------|------------|------------|---------------|
| Band      | LTE Band 4 | Channel    | Ch 20025(Low) |
| Bandwidth | 15MHz      | Modulation | QPSK          |



Date: 27.NOV.2014 08:58:13

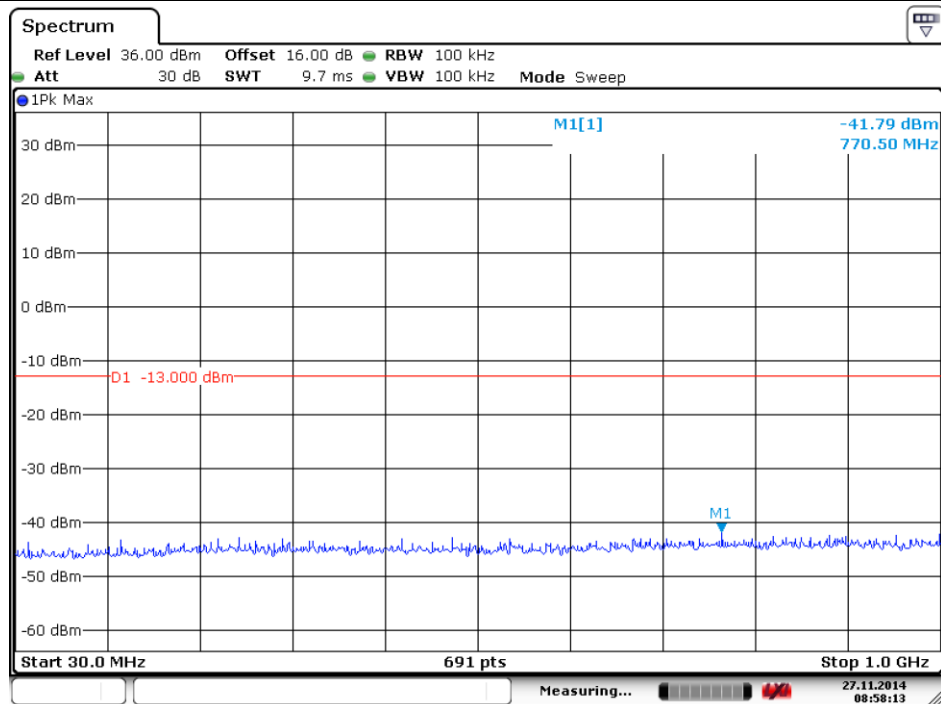
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



Date: 27.NOV.2014 08:57:49

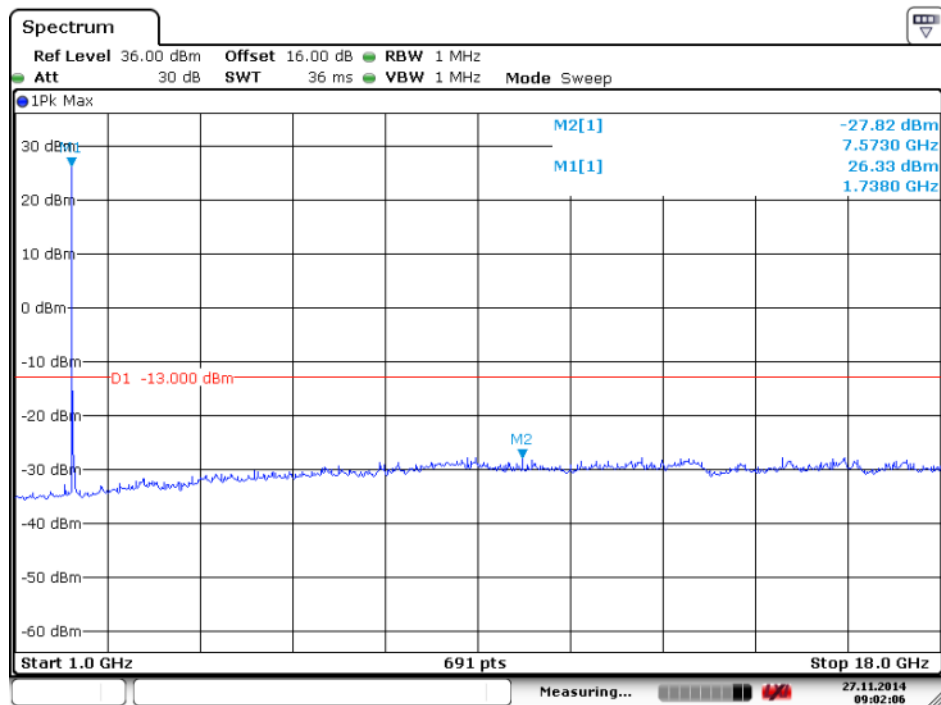
QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

|           |            |            |                  |
|-----------|------------|------------|------------------|
| Band      | LTE Band 4 | Channel    | Ch 20175(Middle) |
| Bandwidth | 15MHz      | Modulation | QPSK             |



Date: 27.NOV.2014 08:58:13

QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)

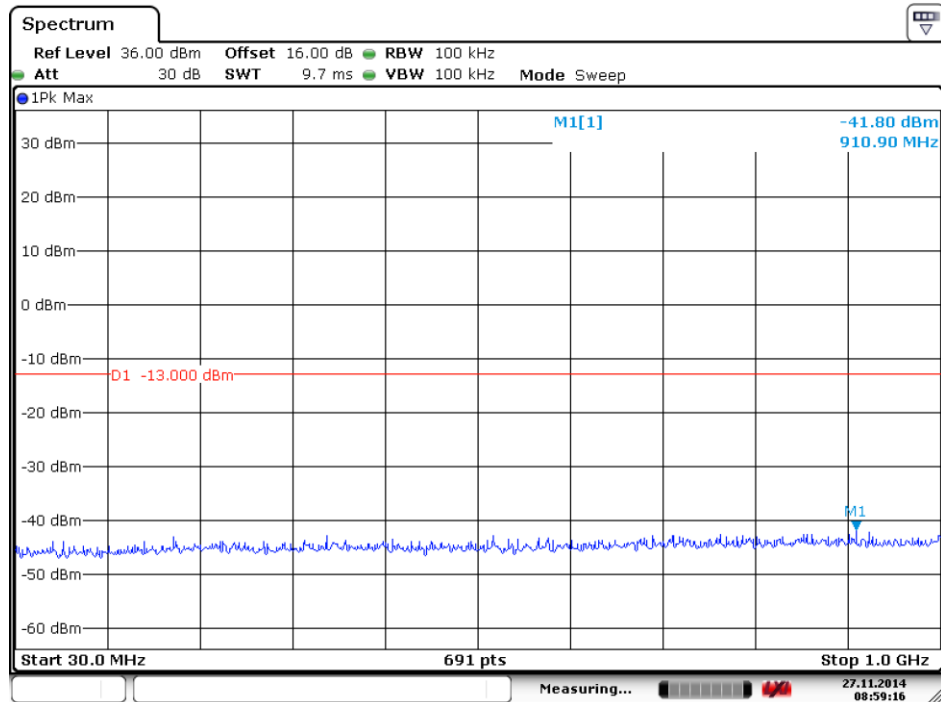


Date: 27.NOV.2014 09:02:07

QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

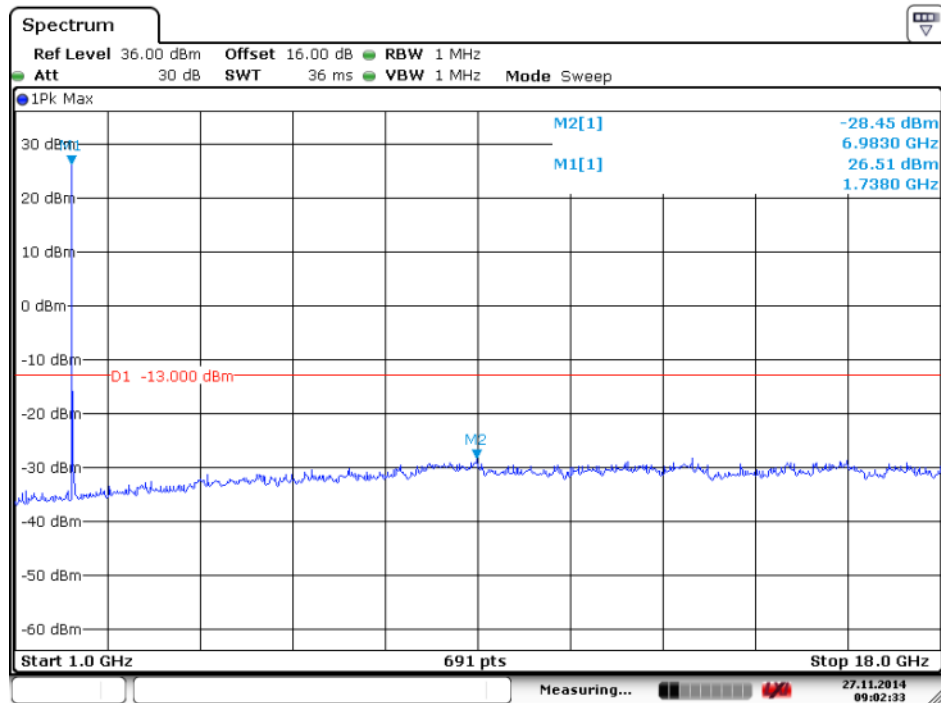


|           |            |            |                |
|-----------|------------|------------|----------------|
| Band      | LTE Band 4 | Channel    | Ch 20325(High) |
| Bandwidth | 15MHz      | Modulation | QPSK           |



Date: 27.NOV.2014 08:59:16

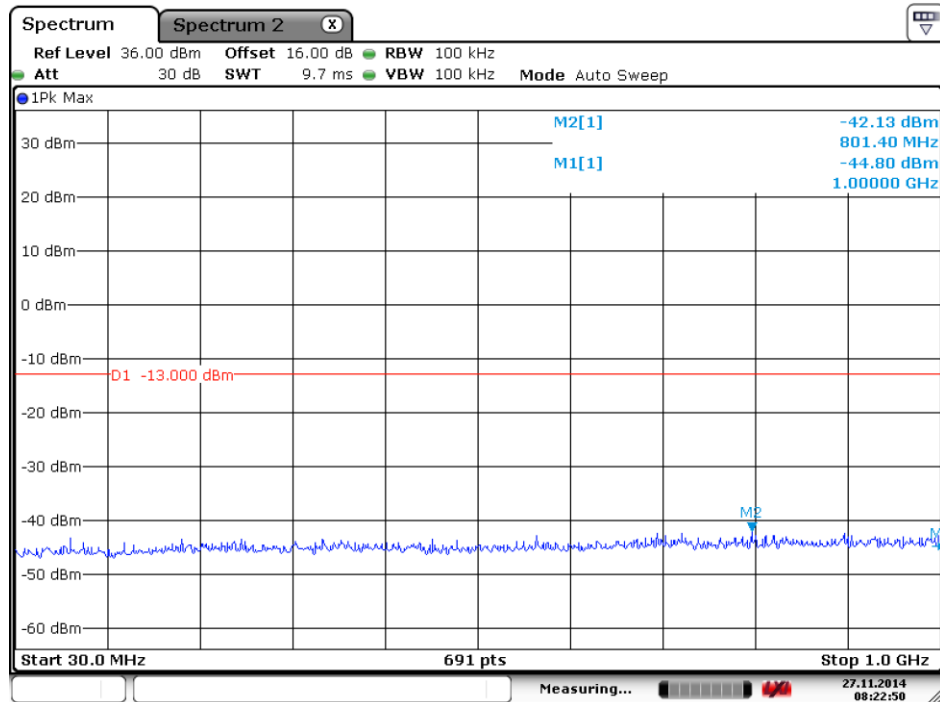
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



Date: 27.NOV.2014 09:02:33

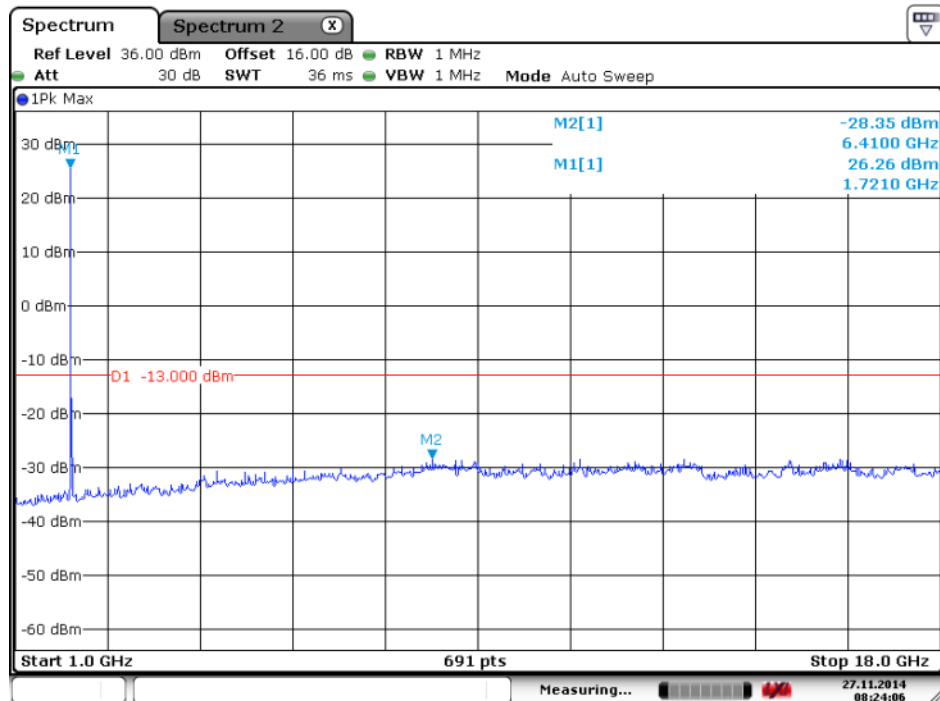
QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

|           |            |            |               |
|-----------|------------|------------|---------------|
| Band      | LTE Band 4 | Channel    | Ch 20050(Low) |
| Bandwidth | 20MHz      | Modulation | QPSK          |



Date: 27.NOV.2014 08:22:50

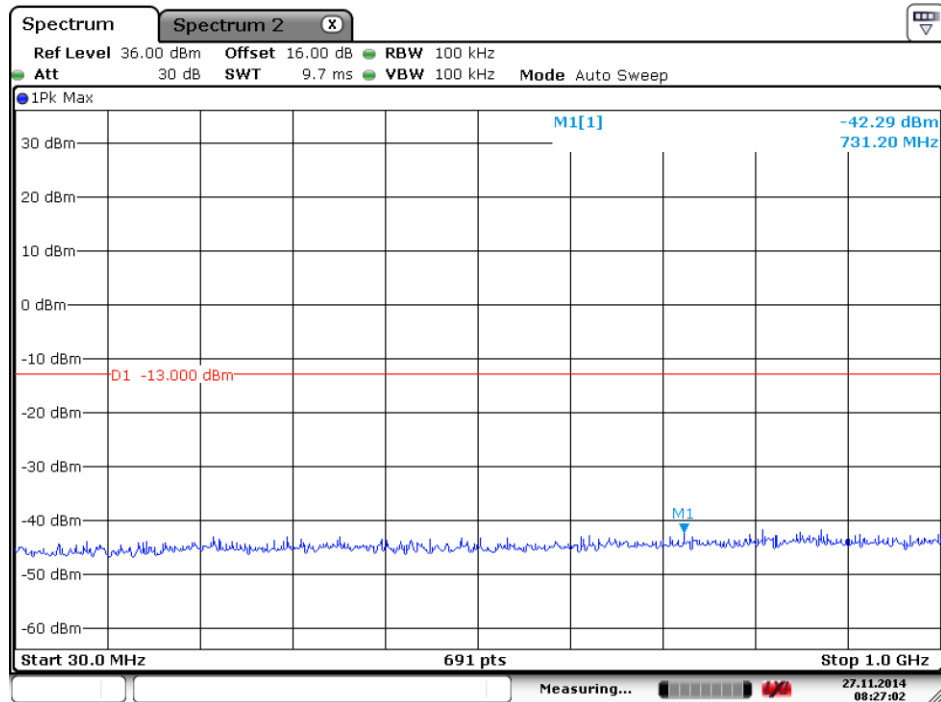
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



Date: 27.NOV.2014 08:24:06

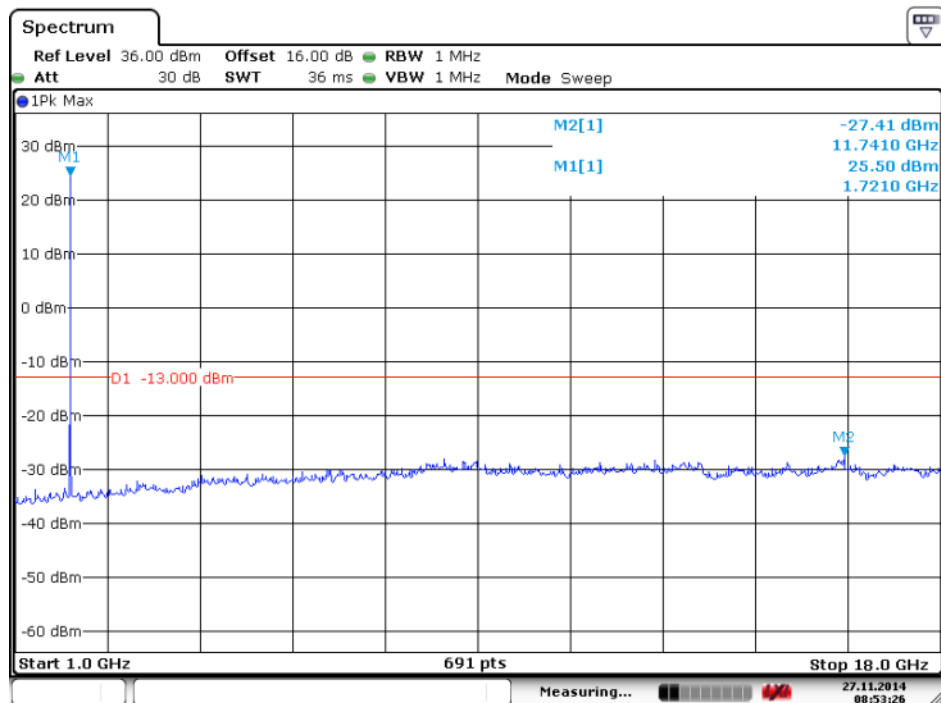
QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

|           |            |            |                  |
|-----------|------------|------------|------------------|
| Band      | LTE Band 4 | Channel    | Ch 20175(Middle) |
| Bandwidth | 20MHz      | Modulation | QPSK             |



Date: 27.NOV.2014 08:27:02

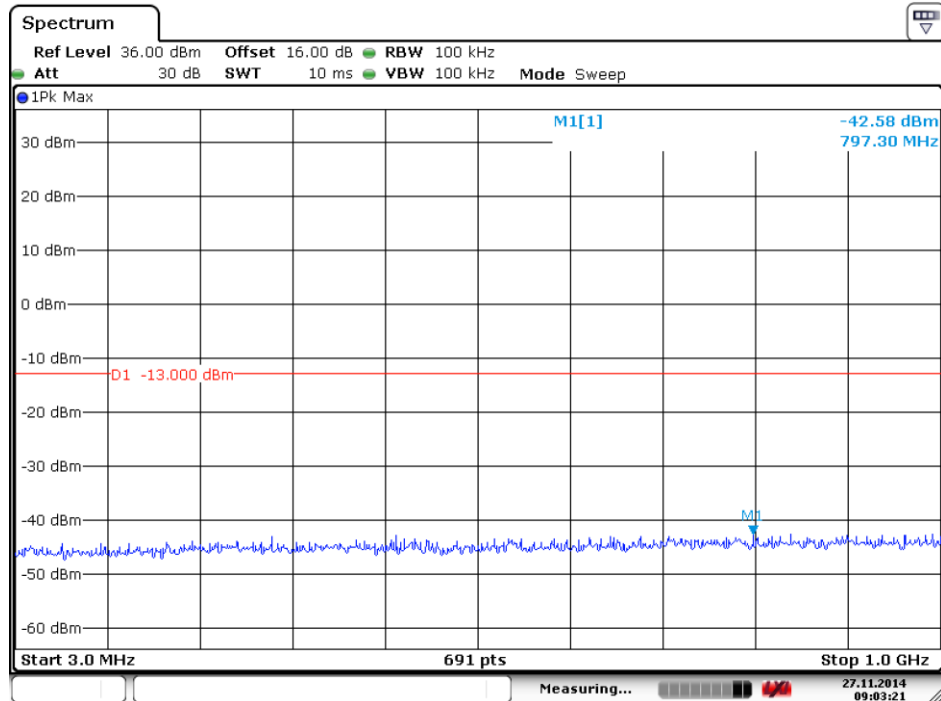
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



Date: 27.NOV.2014 08:53:27

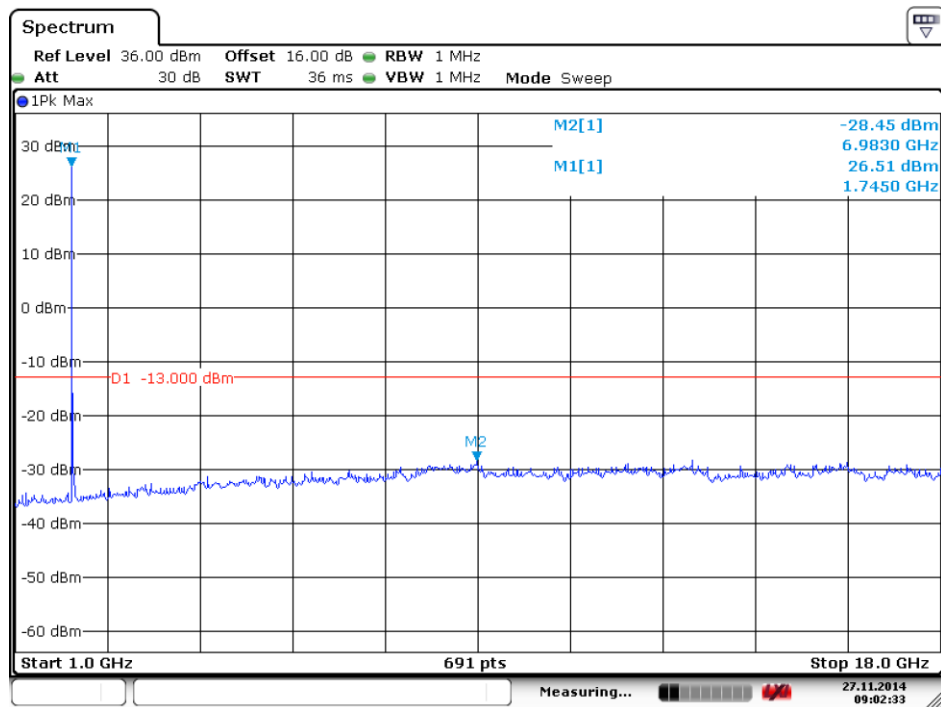
QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)

|           |            |            |                |
|-----------|------------|------------|----------------|
| Band      | LTE Band 4 | Channel    | Ch 20300(High) |
| Bandwidth | 20MHz      | Modulation | QPSK           |



Date: 27.NOV.2014 09:03:22

QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)

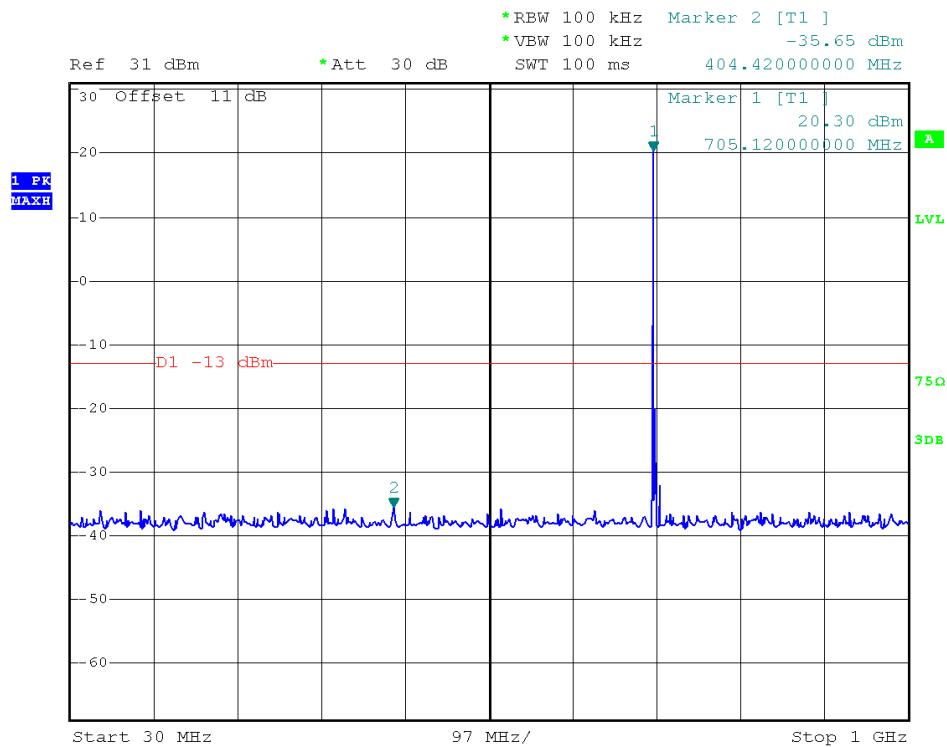


Date: 27.NOV.2014 09:02:33

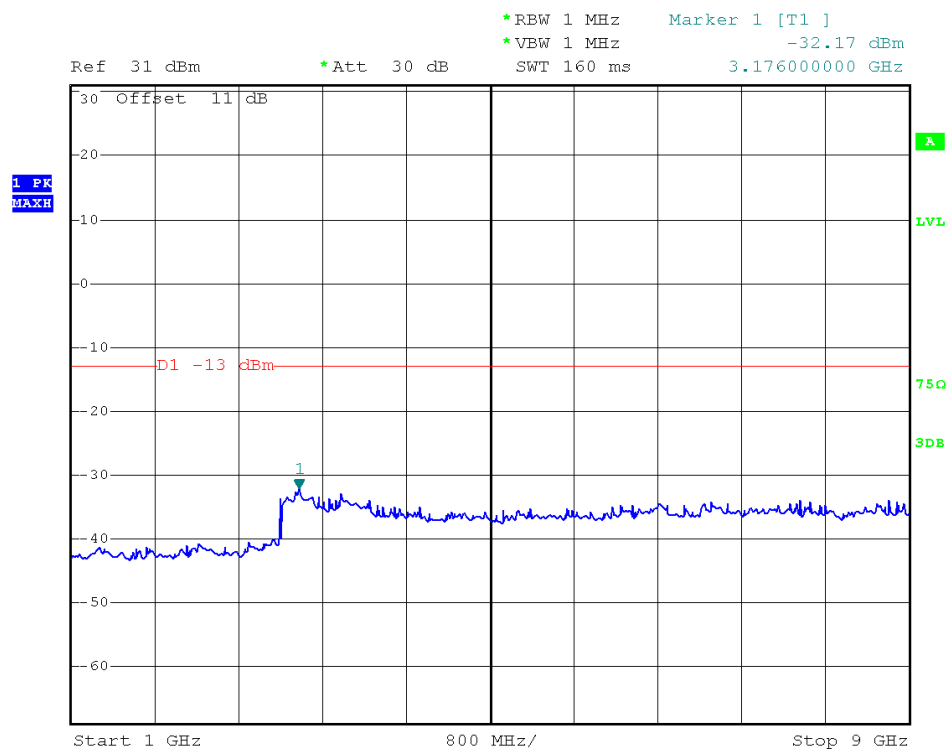
QPSK, (RB Size 1, RB Offset 0 1GHz to 18GHz)



|           |             |            |               |
|-----------|-------------|------------|---------------|
| Band      | LTE Band 17 | Channel    | Ch 23755(Low) |
| Bandwidth | 5MHz        | Modulation | QPSK          |



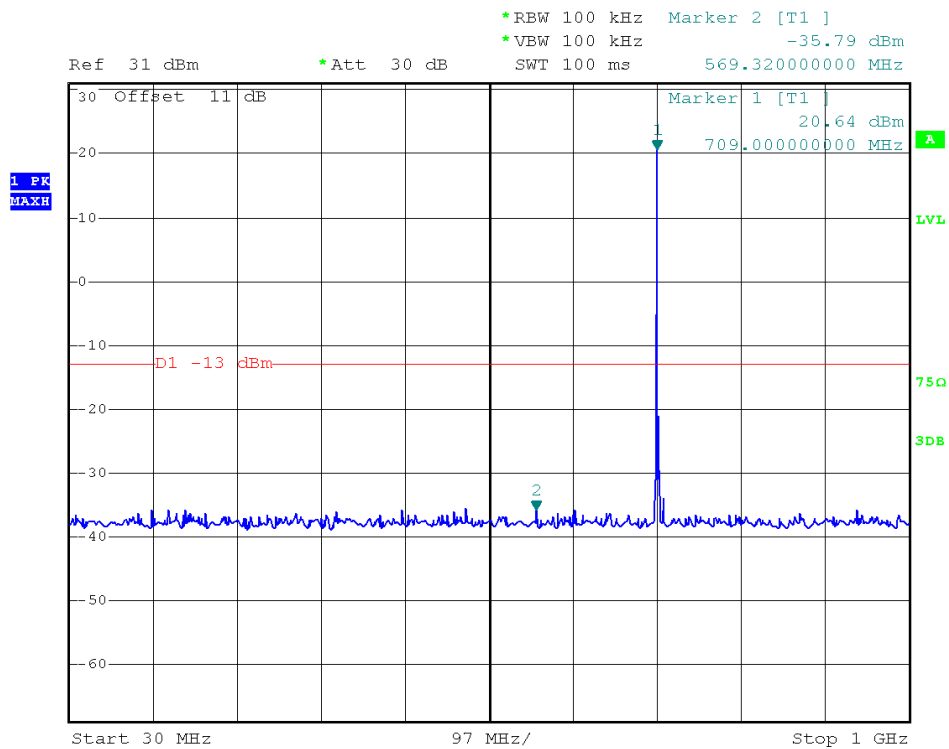
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



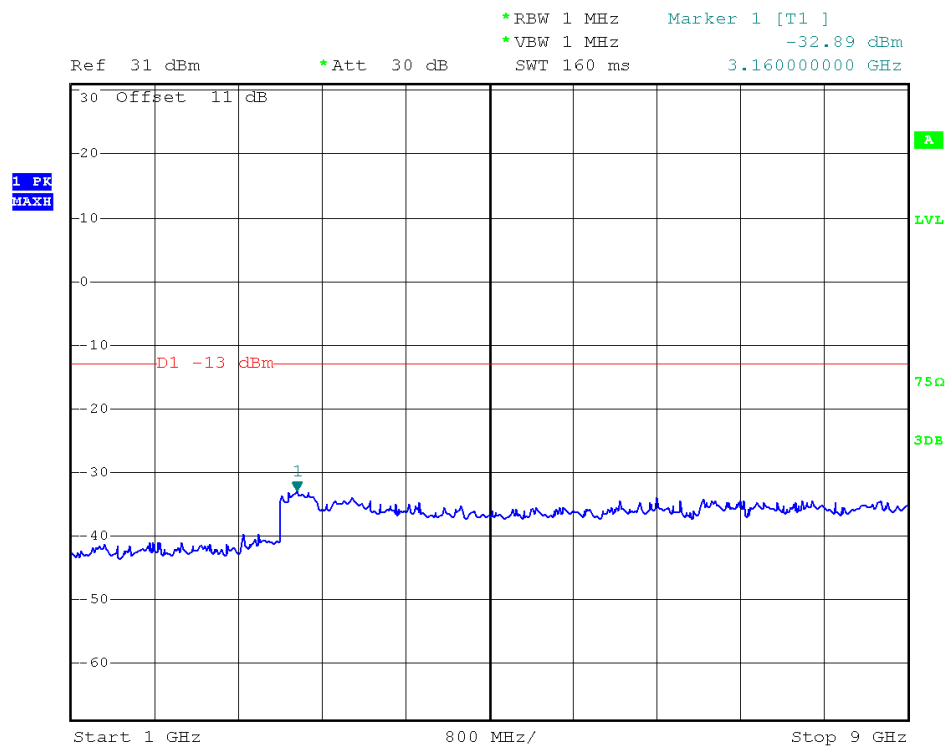
QPSK, (RB Size 1, RB Offset 0 1GHz to 9GHz)



|           |             |            |                  |
|-----------|-------------|------------|------------------|
| Band      | LTE Band 17 | Channel:   | Ch 23790(Middle) |
| Bandwidth | 5MHz        | Modulation | QPSK             |

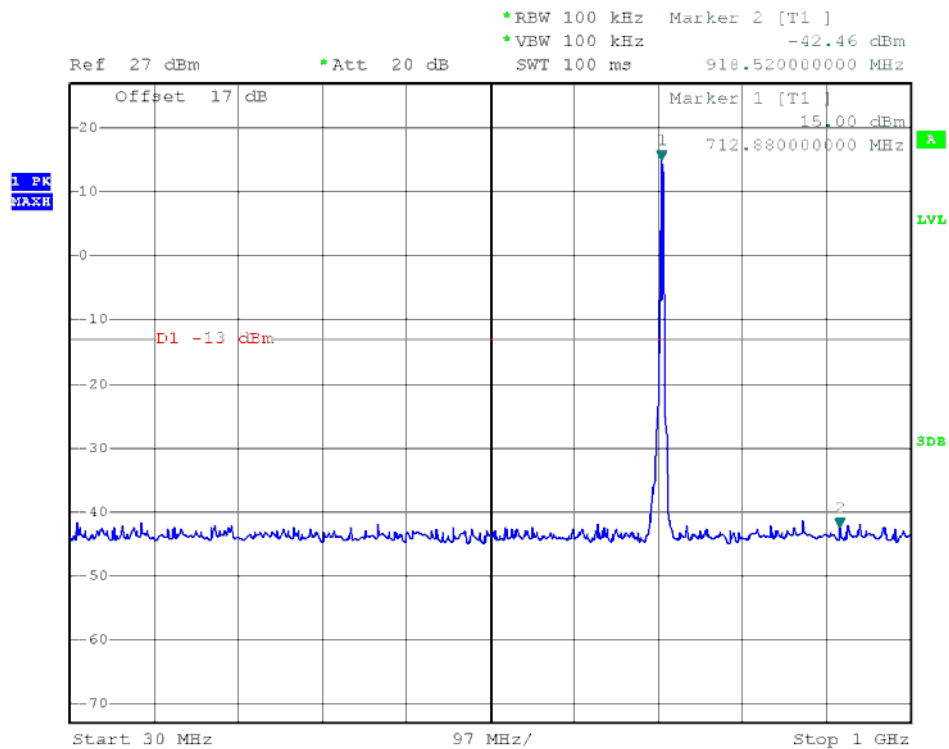


QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)

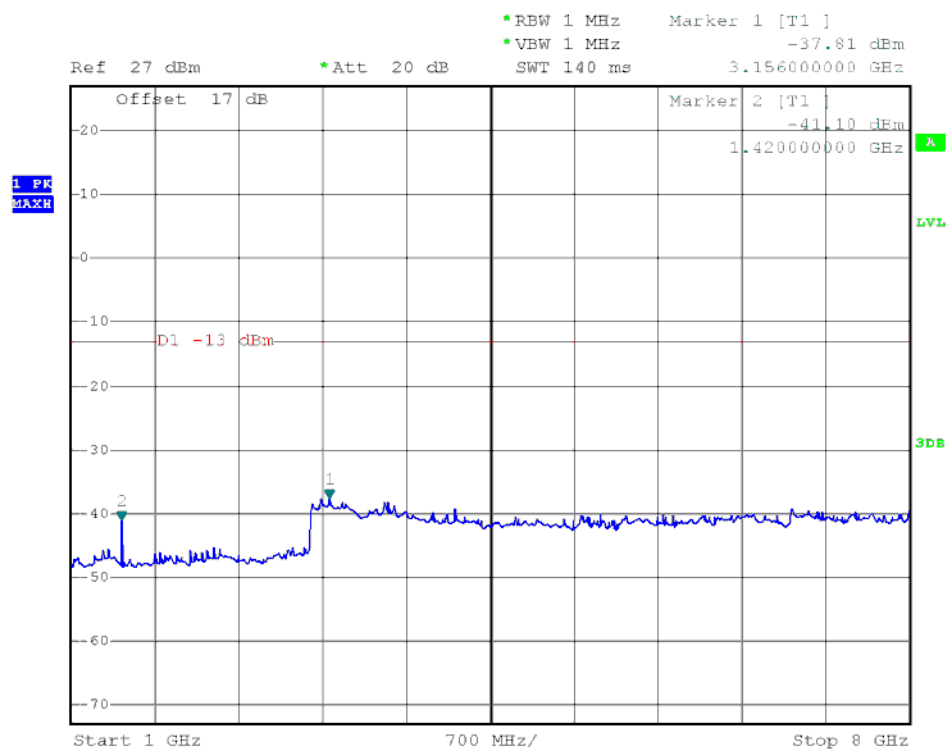


QPSK, (RB Size 1, RB Offset 0 1GHz to 9GHz)

|           |             |            |                |
|-----------|-------------|------------|----------------|
| Band      | LTE Band 17 | Channel:   | Ch 23825(High) |
| Bandwidth | 5MHz        | Modulation | QPSK           |

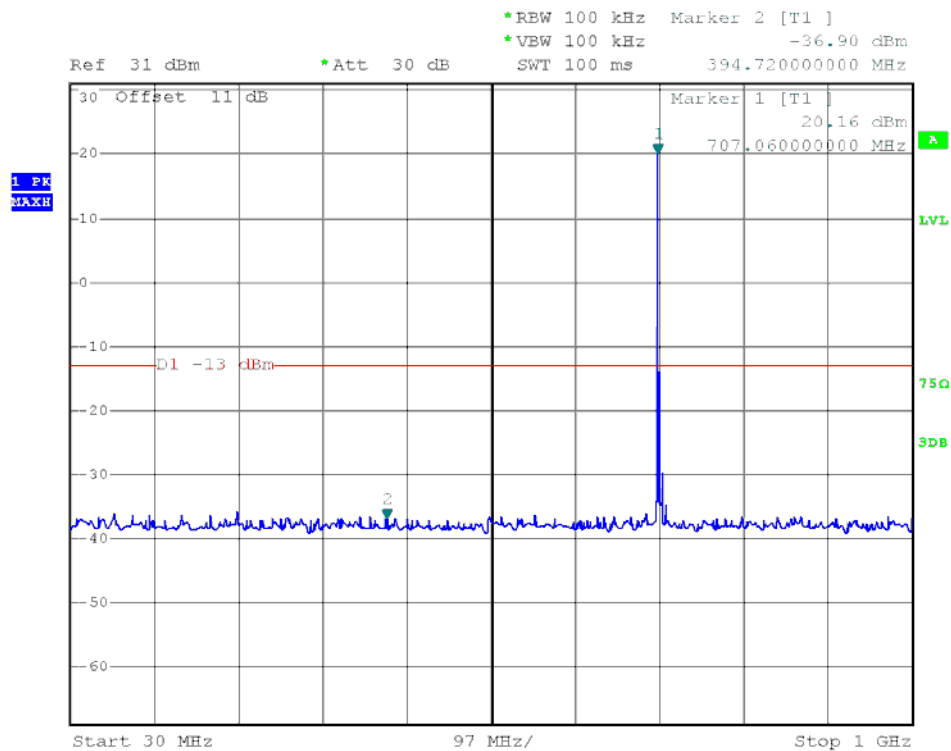


QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)

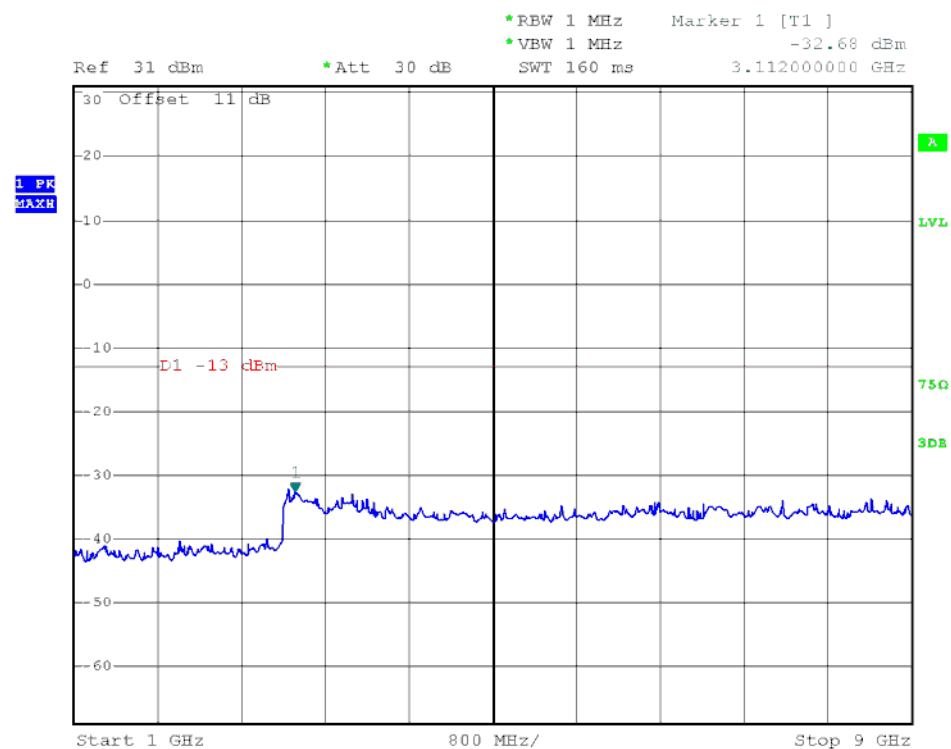


QPSK, (RB Size 1, RB Offset 0 1GHz to 8GHz)

|           |             |            |               |
|-----------|-------------|------------|---------------|
| Band      | LTE Band 17 | Channel:   | Ch 23780(Low) |
| Bandwidth | 10MHz       | Modulation | QPSK          |



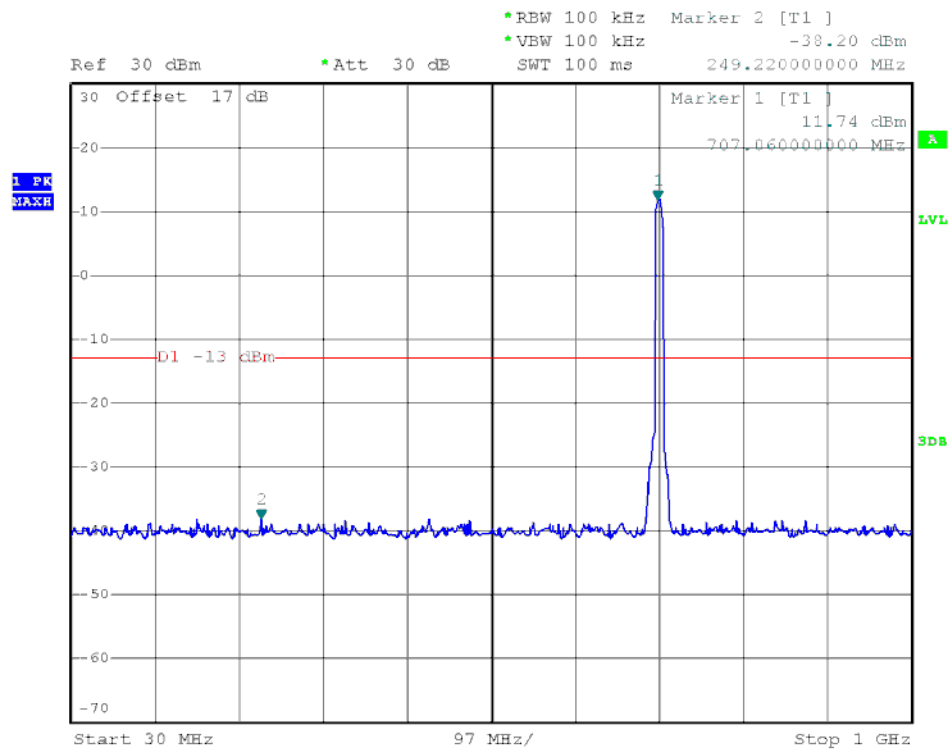
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



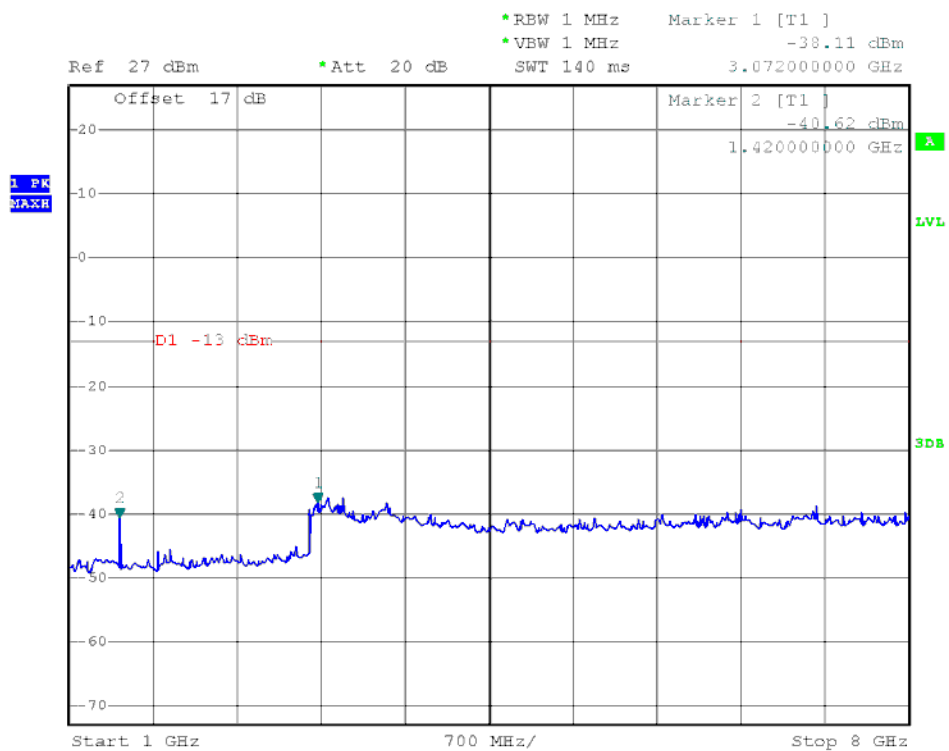
QPSK, (RB Size 1, RB Offset 0 1GHz to 8GHz)



|           |             |            |                  |
|-----------|-------------|------------|------------------|
| Band      | LTE Band 17 | Channel    | Ch 23790(Middle) |
| Bandwidth | 10MHz       | Modulation | QPSK             |



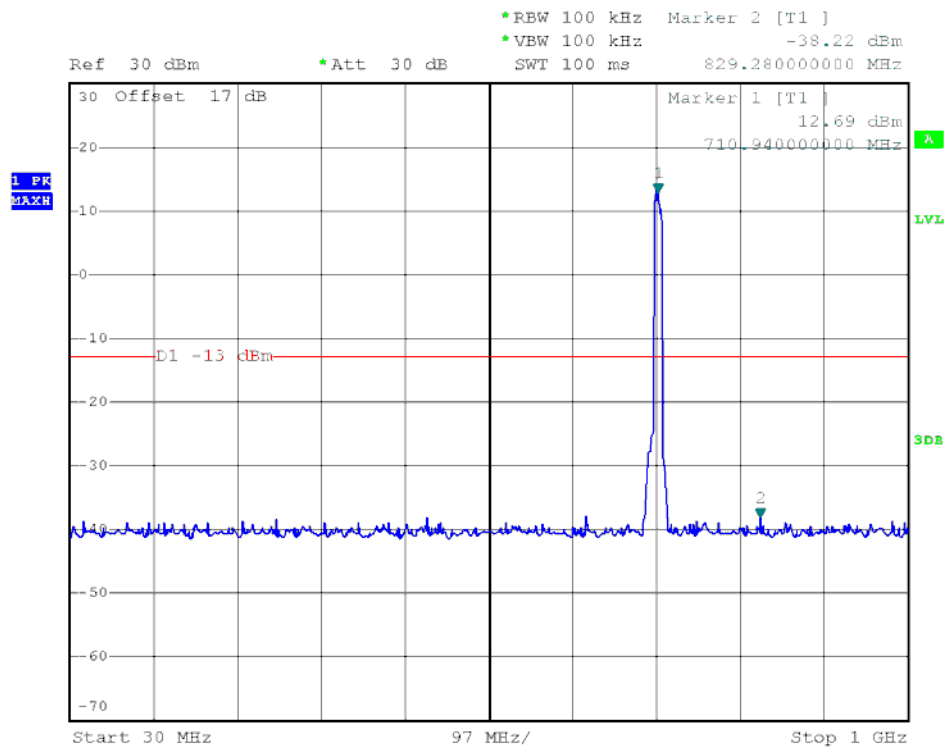
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



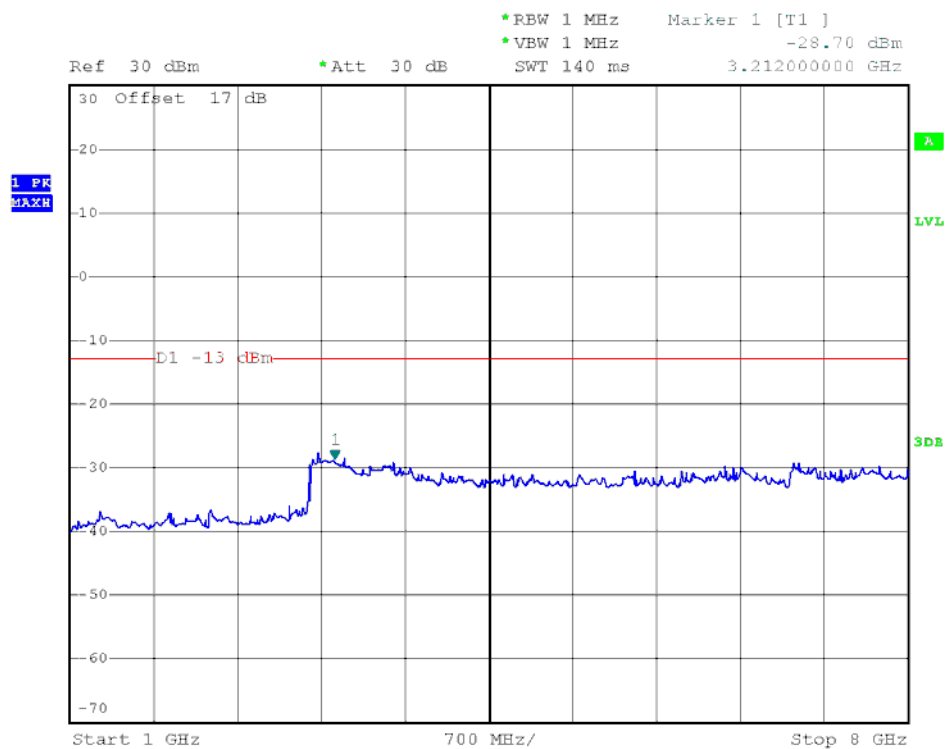
QPSK, (RB Size 1, RB Offset 0 1GHz to 8GHz)



|           |             |            |                |
|-----------|-------------|------------|----------------|
| Band      | LTE Band 17 | Channel    | Ch 23800(High) |
| Bandwidth | 10MHz       | Modulation | QPSK           |



QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



QPSK, (RB Size 1, RB Offset 0 1GHz to 8GHz)

## 2.6 Conducted Band Edge

### 2.6.1 Requirement

27.53(g) for Band 17

For operations in the 698 -746 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53(h) for Band 4

For operations in the 1710 – 1755 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

### 2.6.2 Test Description

See section 2.1.2 of this report.

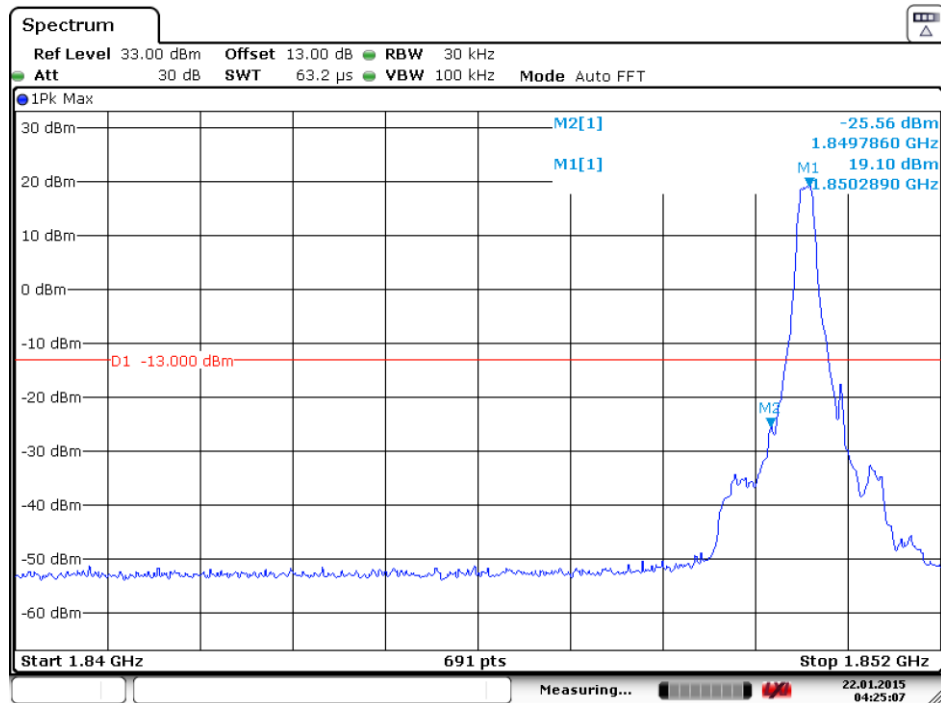
### 2.6.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW  $\geq 1\%$  EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with RMS detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
5. The limit line is derived from  $43 + 10\log(P)\text{dB}$  below the transmitter power  $P(\text{Watts})$   
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$   
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}.$

### 2.6.4 Test Result of Conducted Band Edge

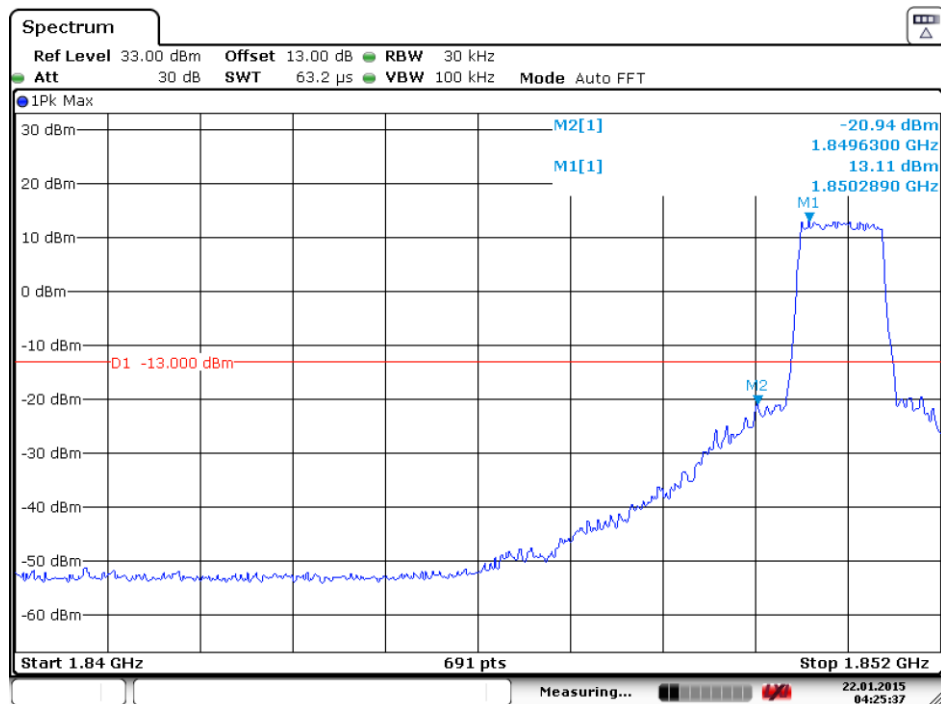
The lowest and highest channels are tested to verify the band edge emissions.

|           |            |            |      |
|-----------|------------|------------|------|
| Band      | LTE Band 2 | Modulation | QPSK |
| Bandwidth | 1.4MHz     |            |      |



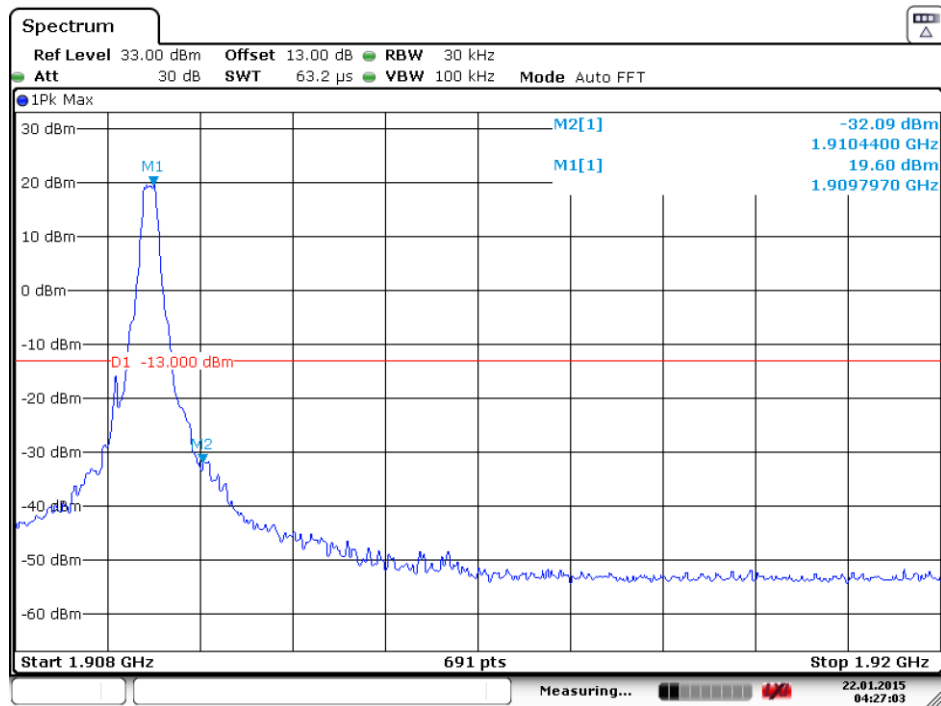
Date: 22.JAN.2015 04:25:07

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



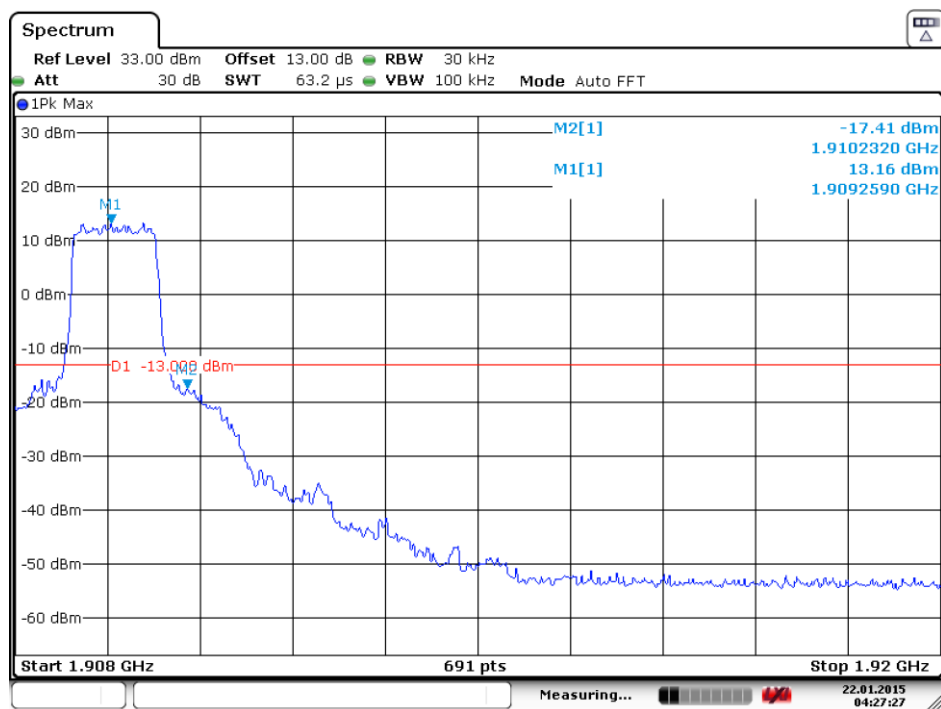
Date: 22.JAN.2015 04:25:37

Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 22.JAN.2015 04:27:03

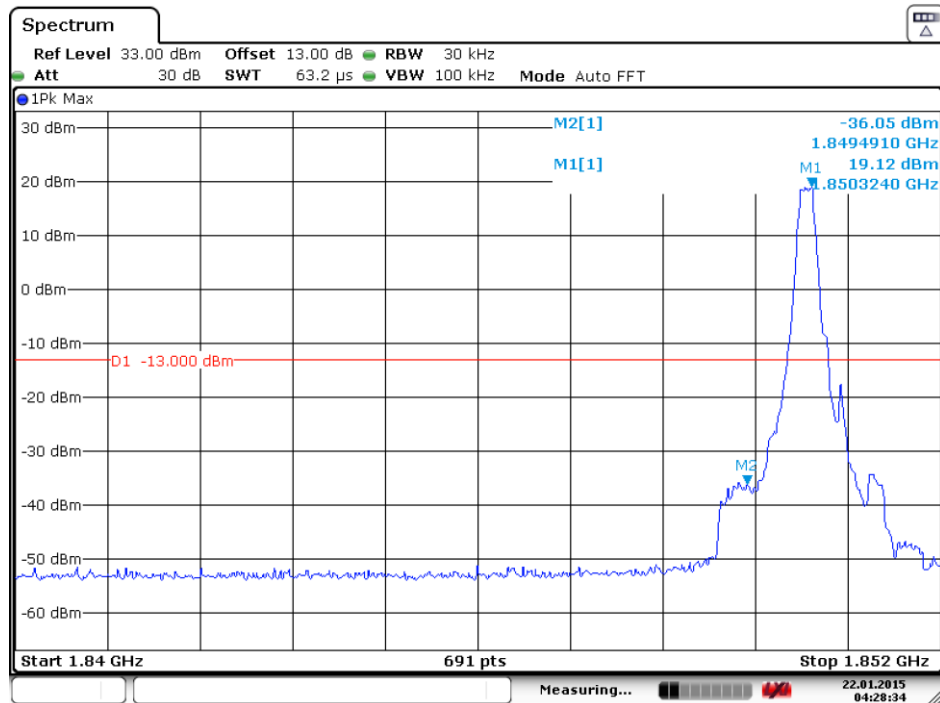
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



Date: 22.JAN.2015 04:27:28

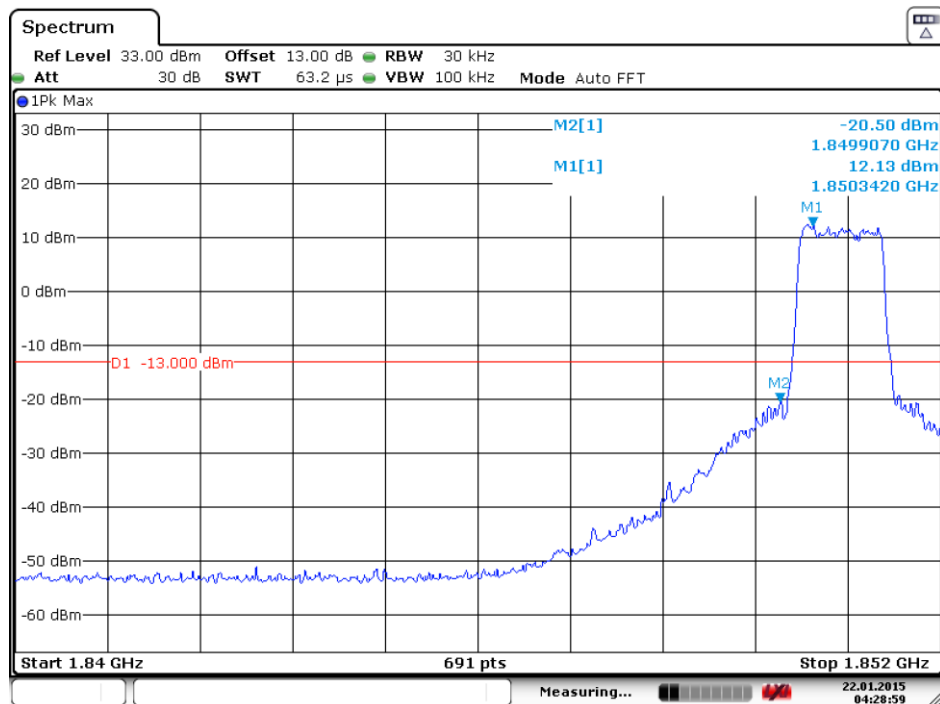
Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0

|           |            |            |       |
|-----------|------------|------------|-------|
| Band      | LTE Band 2 | Modulation | 16QAM |
| Bandwidth | 1.4MHz     |            |       |



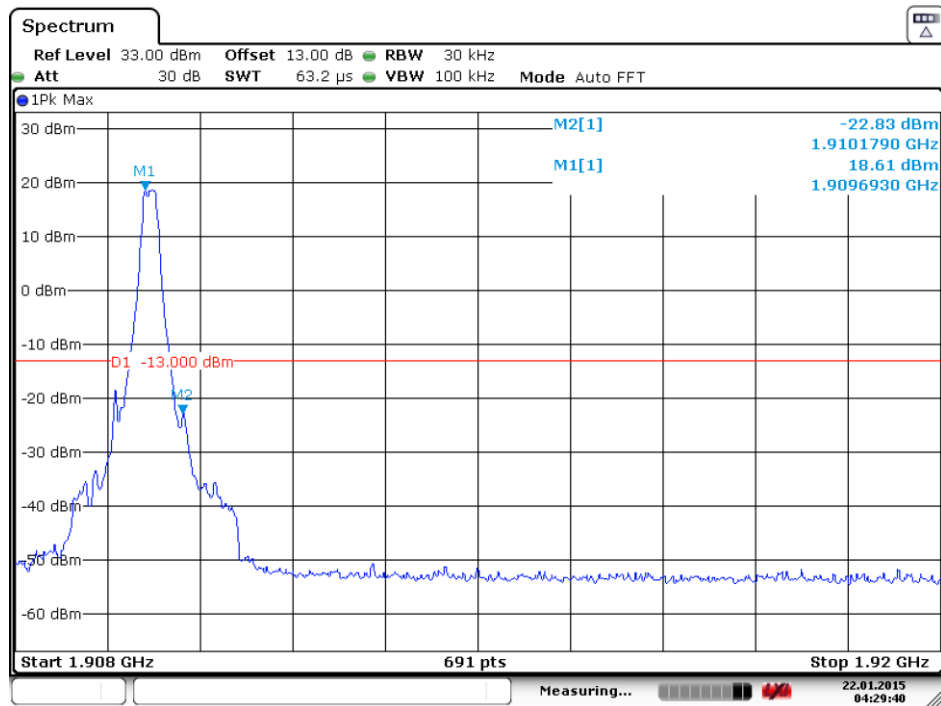
Date: 22.JAN.2015 04:28:34

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



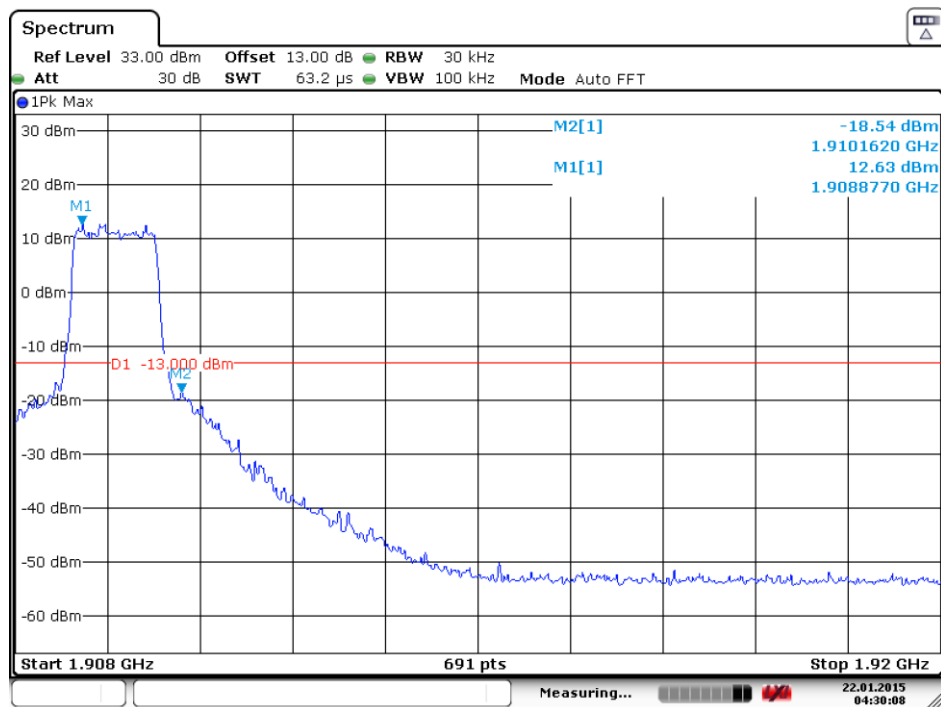
Date: 22.JAN.2015 04:28:58

Lower Band Edge Plot for 16QAM-RB Size 6, RB Offset 0



Date: 22.JAN.2015 04:29:40

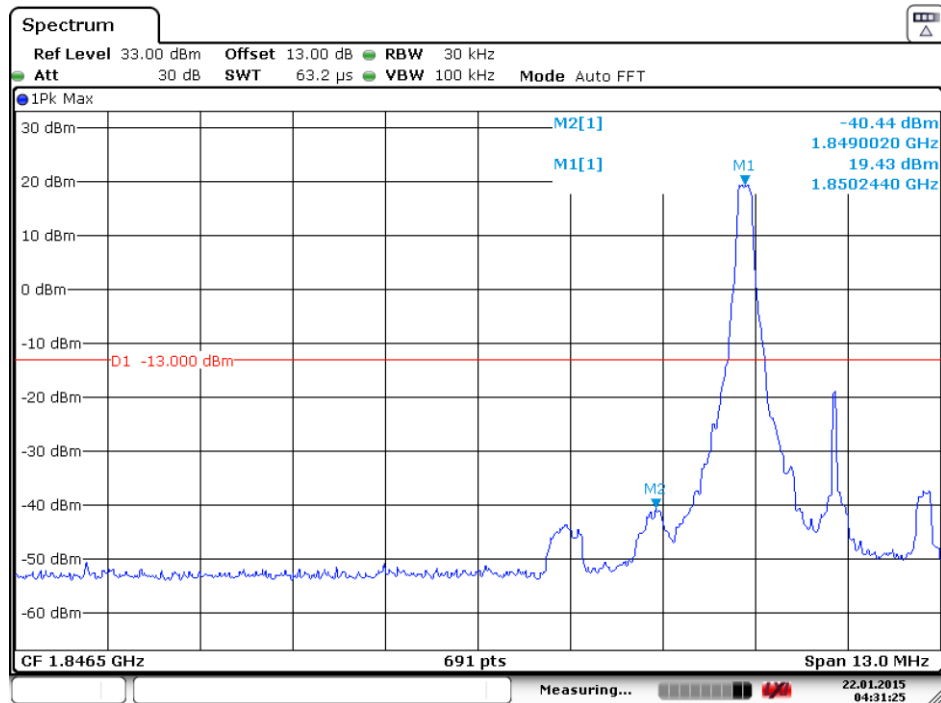
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 5



Date: 22.JAN.2015 04:30:08

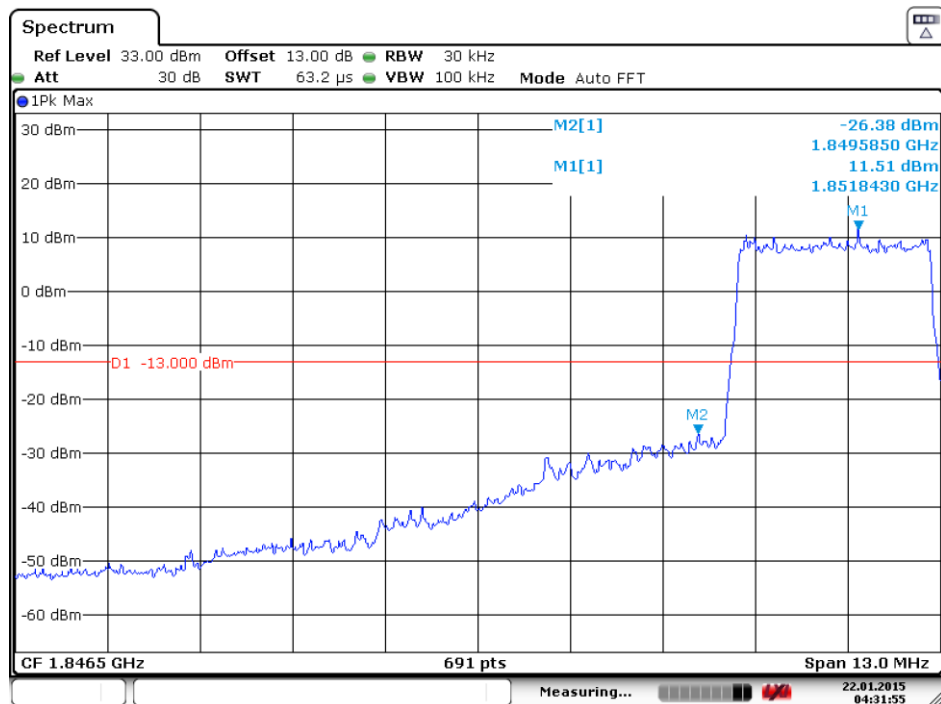
Higher Band Edge Plot for 16QAM-RB Size 6, RB Offset 0

|           |            |            |      |
|-----------|------------|------------|------|
| Band      | LTE Band 2 | Modulation | QPSK |
| Bandwidth | 3MHz       |            |      |



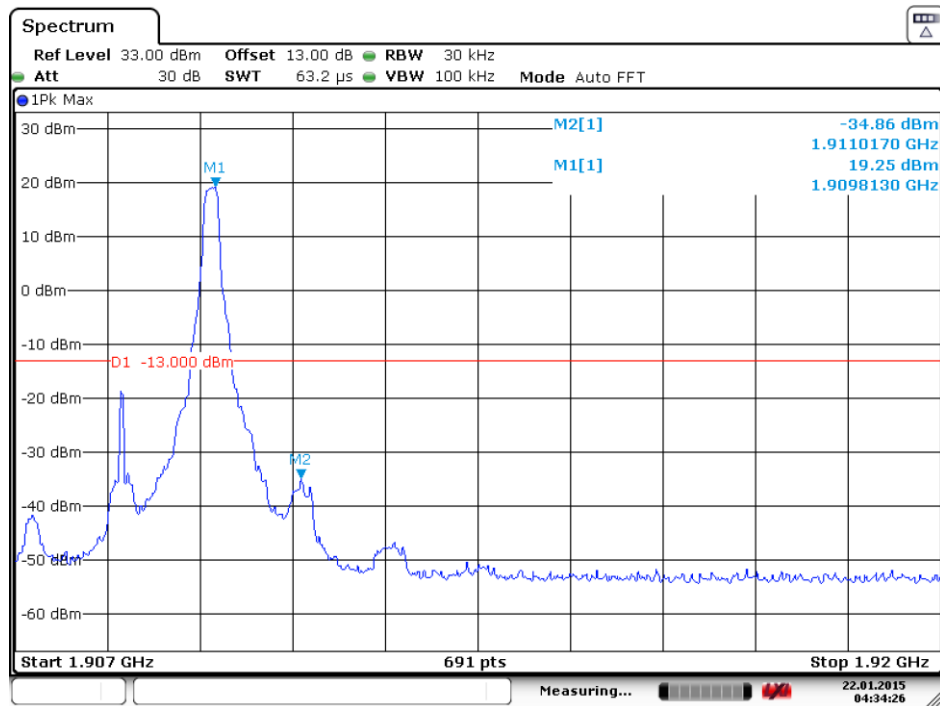
Date: 22.JAN.2015 04:31:24

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



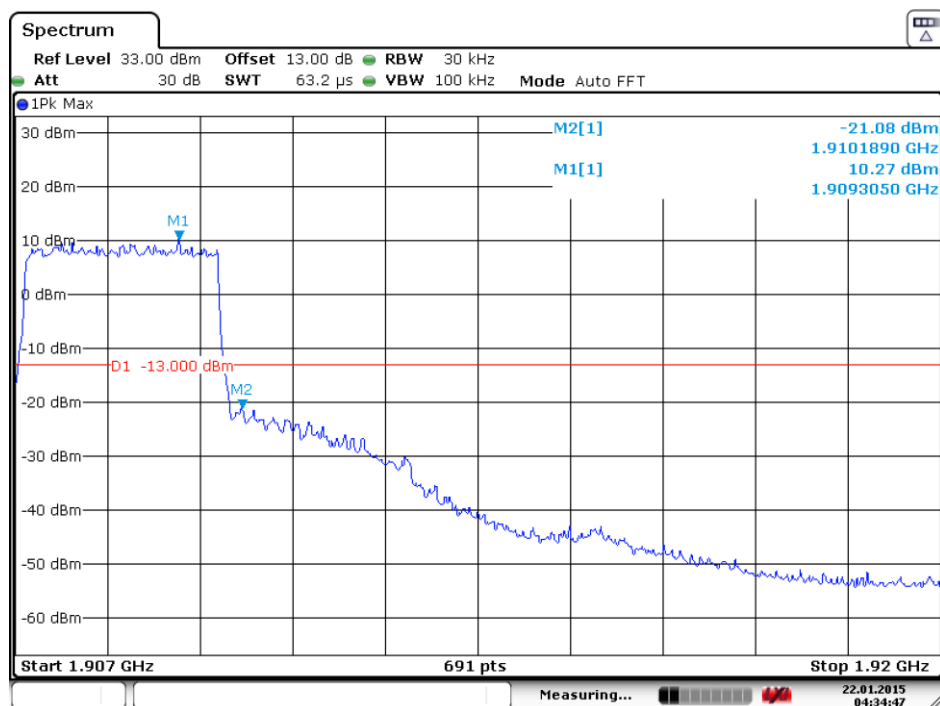
Date: 22.JAN.2015 04:31:55

Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 22.JAN.2015 04:34:26

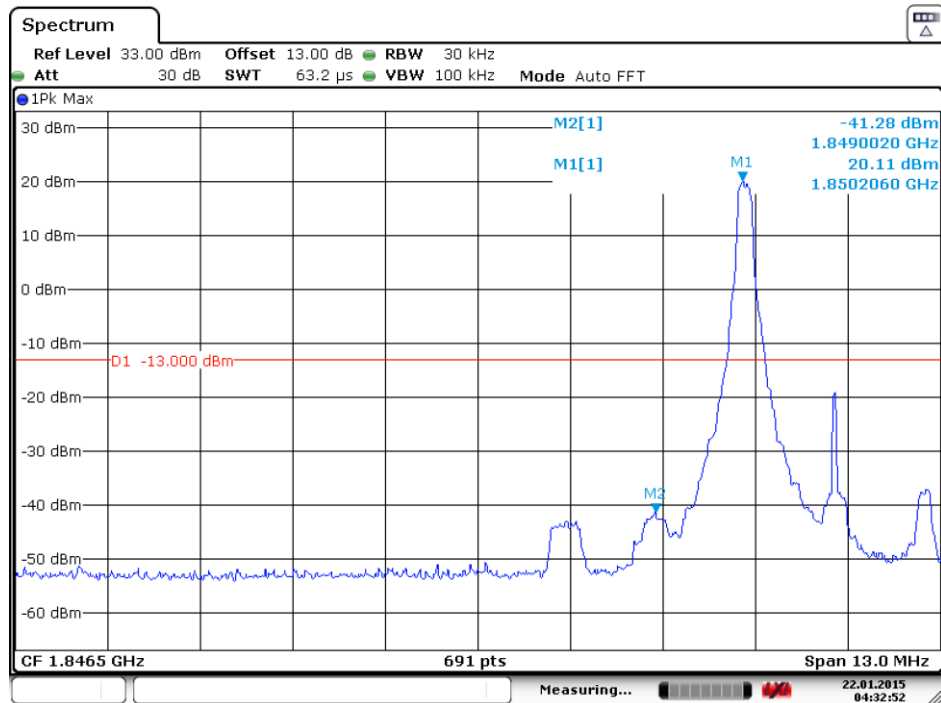
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Date: 22.JAN.2015 04:34:48

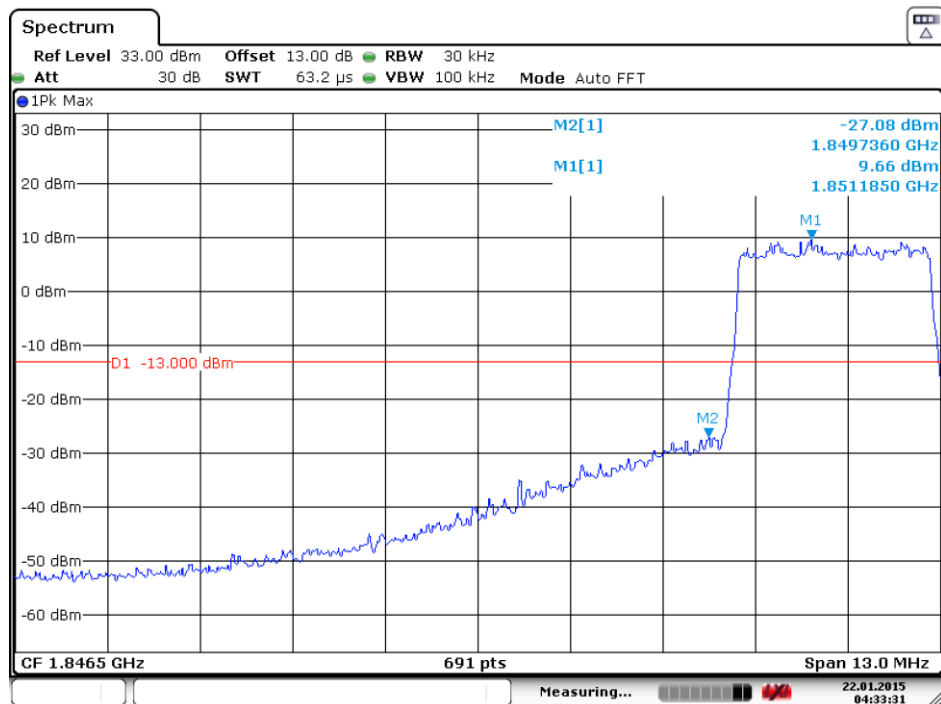
Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0

|           |            |            |       |
|-----------|------------|------------|-------|
| Band      | LTE Band 2 | Modulation | 16QAM |
| Bandwidth | 3MHz       |            |       |



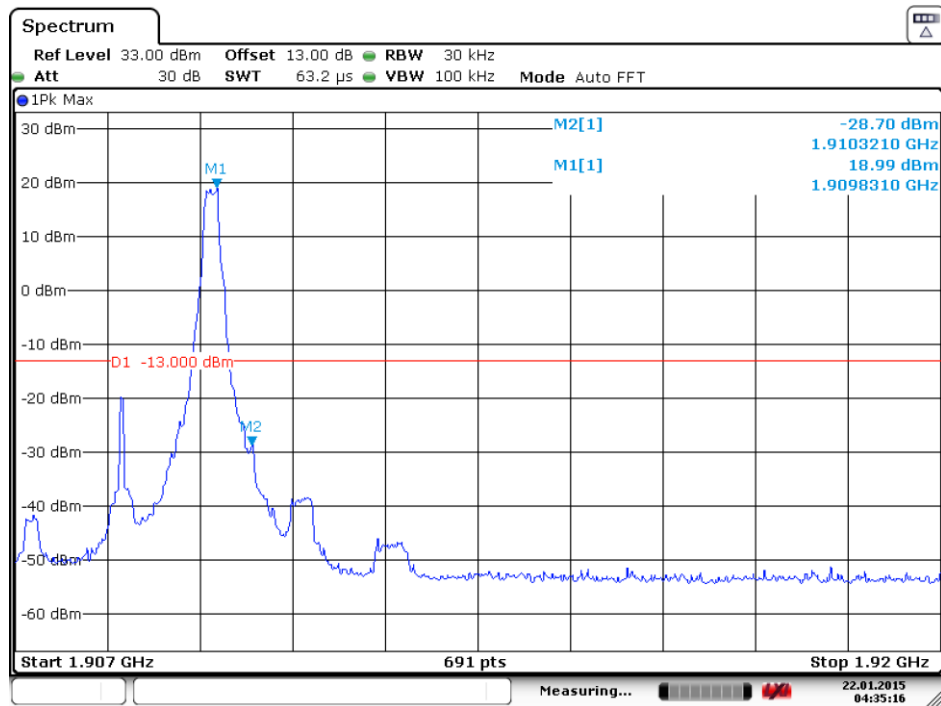
Date: 22.JAN.2015 04:32:52

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



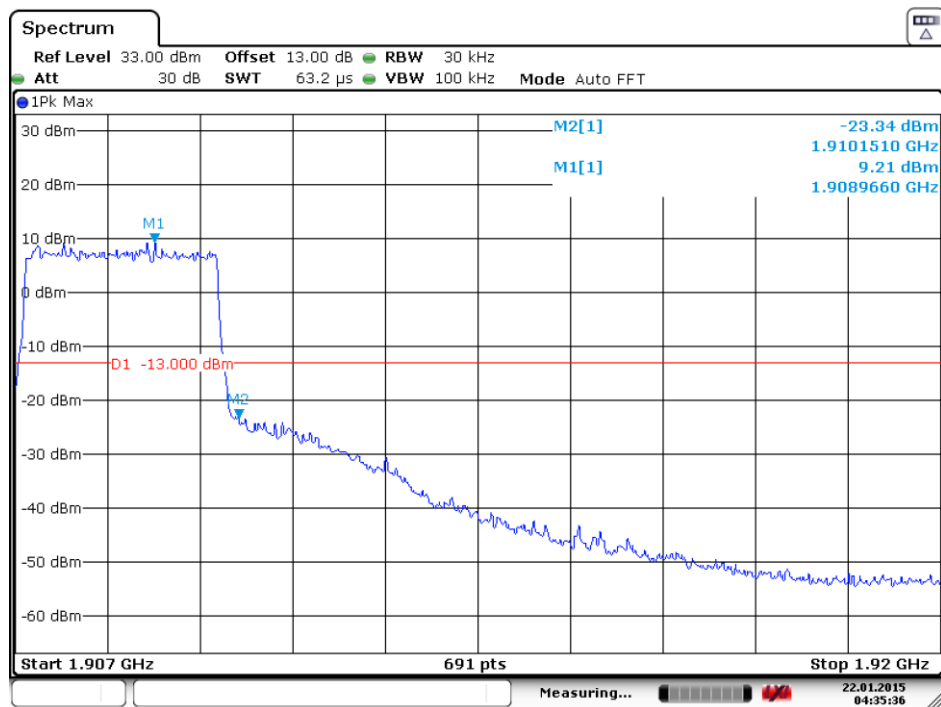
Date: 22.JAN.2015 04:33:32

Lower Band Edge Plot for 16QAM-RB Size 15, RB Offset 0



Date: 22.JAN.2015 04:35:16

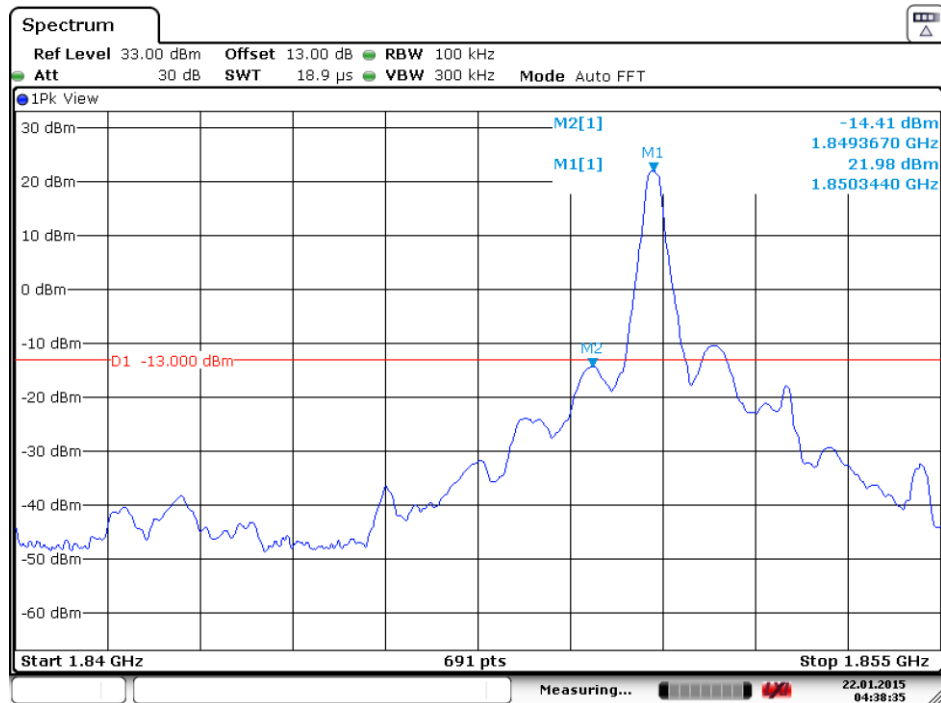
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 14



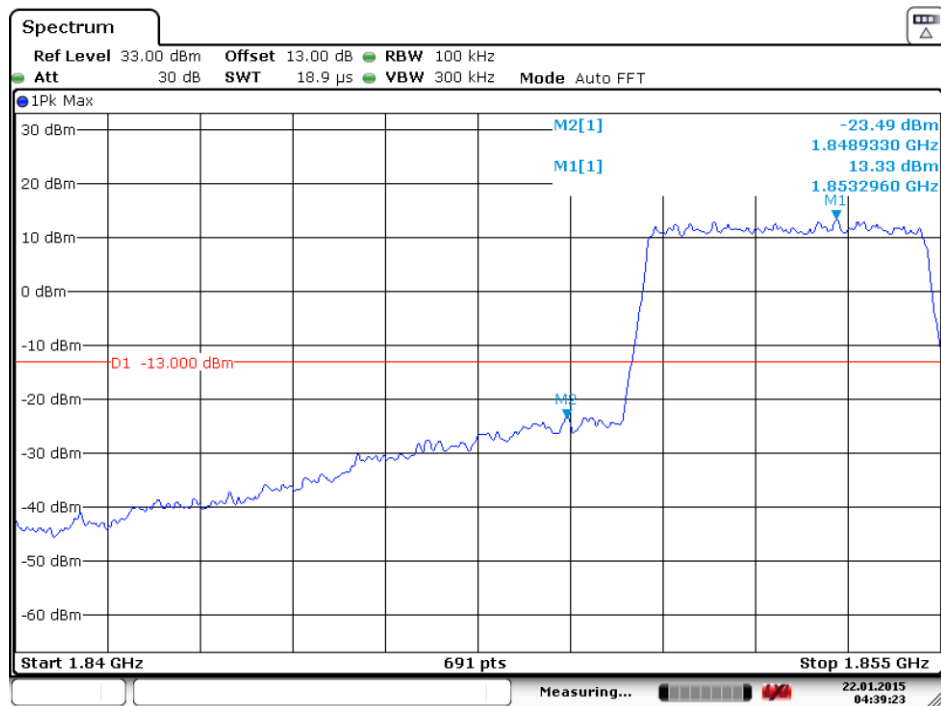
Date: 22.JAN.2015 04:35:37

Higher Band Edge Plot for 16QAM-RB Size 15, RB Offset 0

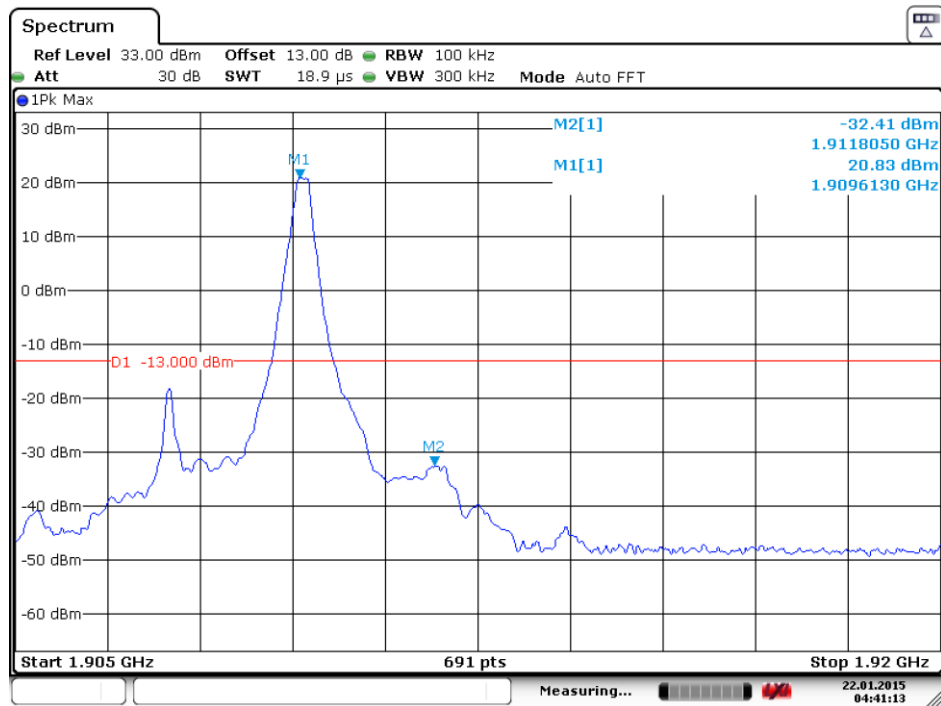
|           |            |            |      |
|-----------|------------|------------|------|
| Band      | LTE Band 2 | Modulation | QPSK |
| Bandwidth | 5MHz       |            |      |



Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

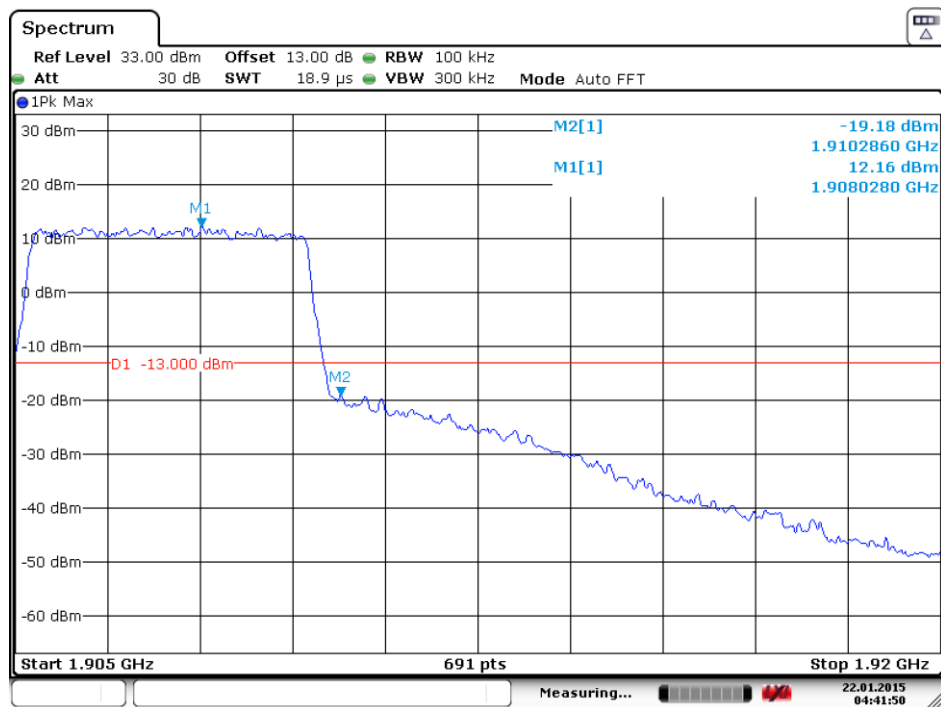


Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 22.JAN.2015 04:41:13

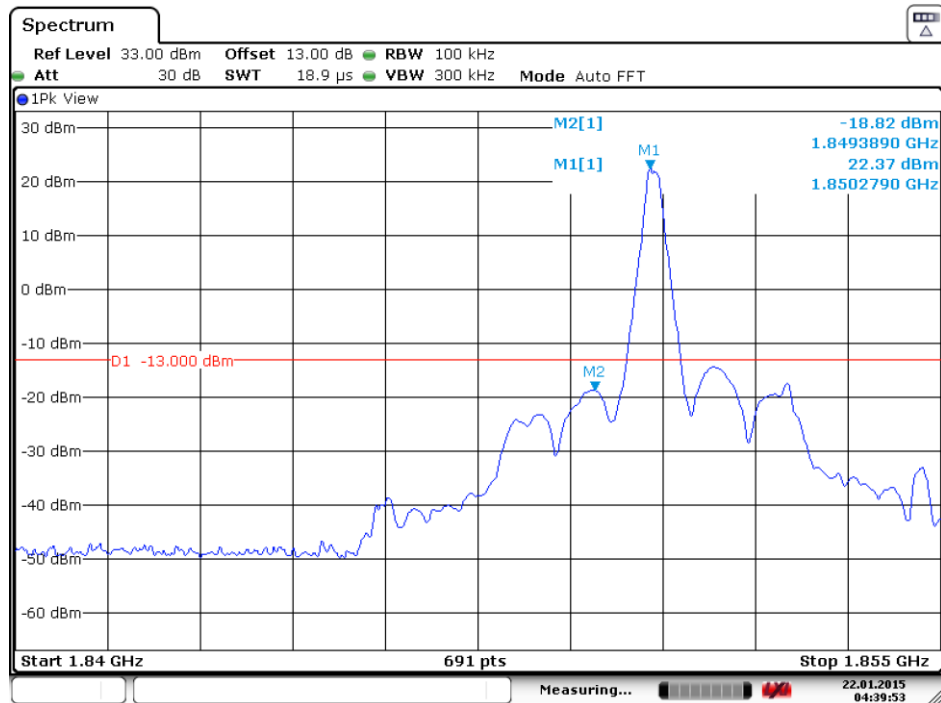
### Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



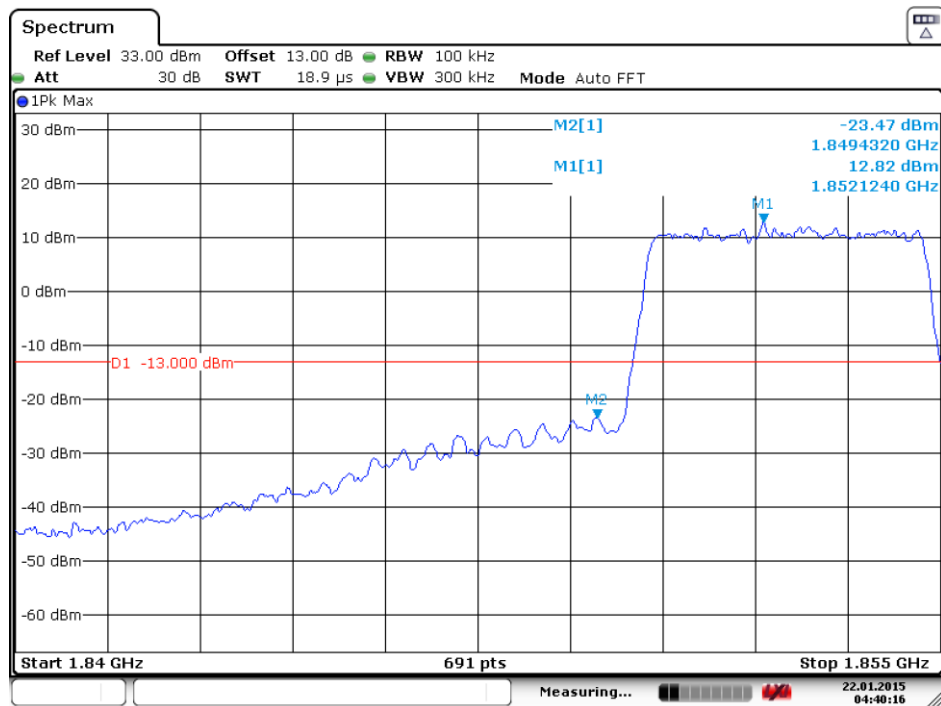
Date: 22.JAN.2015 04:41:50

### Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

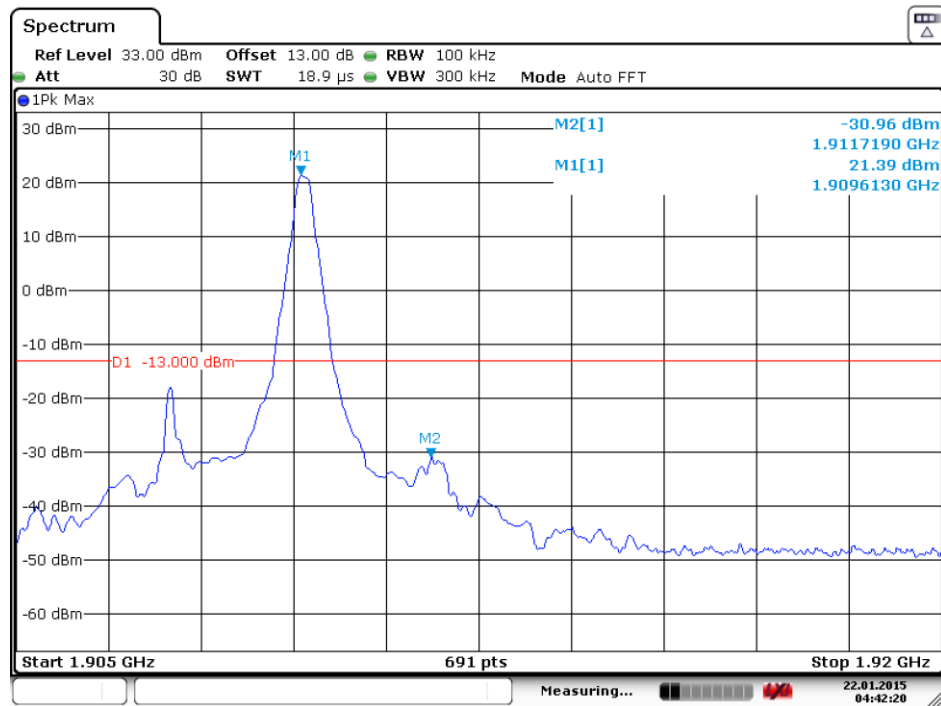
|           |            |            |       |
|-----------|------------|------------|-------|
| Band      | LTE Band 2 | Modulation | 16QAM |
| Bandwidth | 5MHz       |            |       |



Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

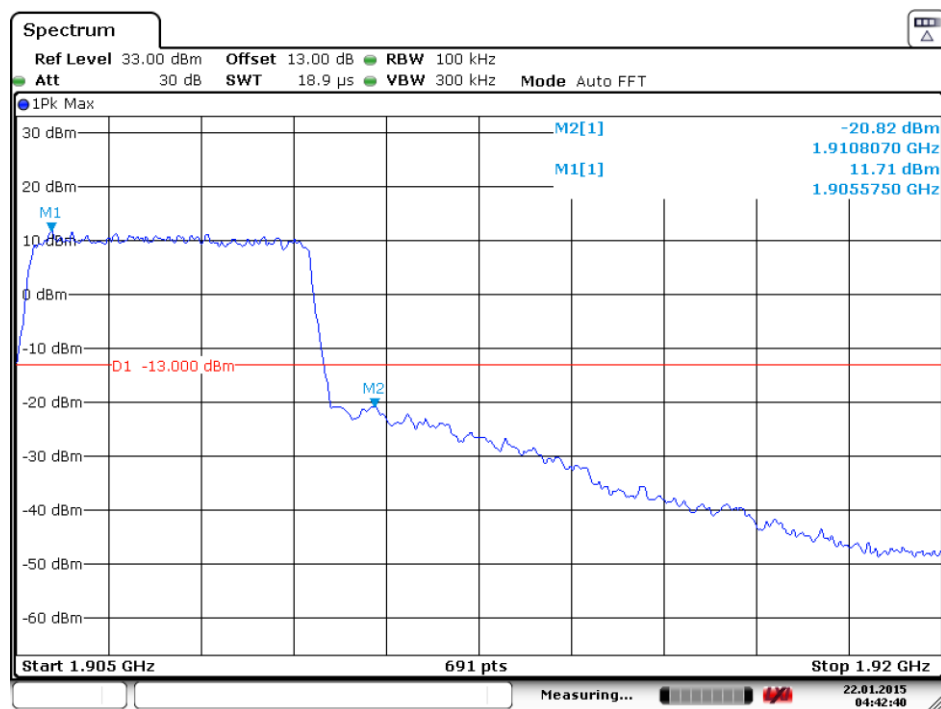


Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



Date: 22.JAN.2015 04:42:20

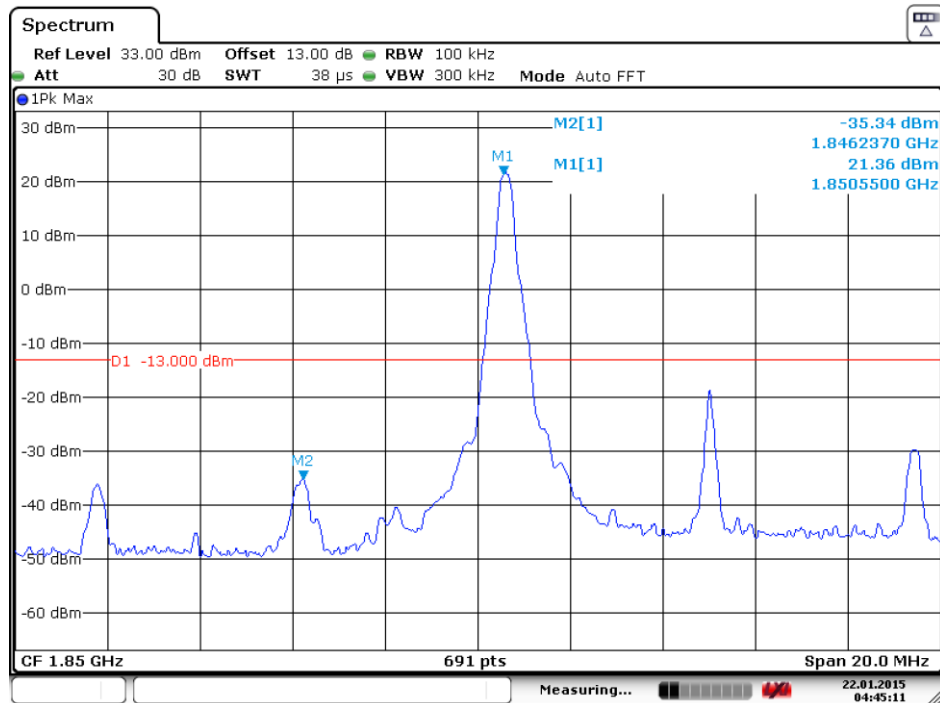
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



Date: 22.JAN.2015 04:42:40

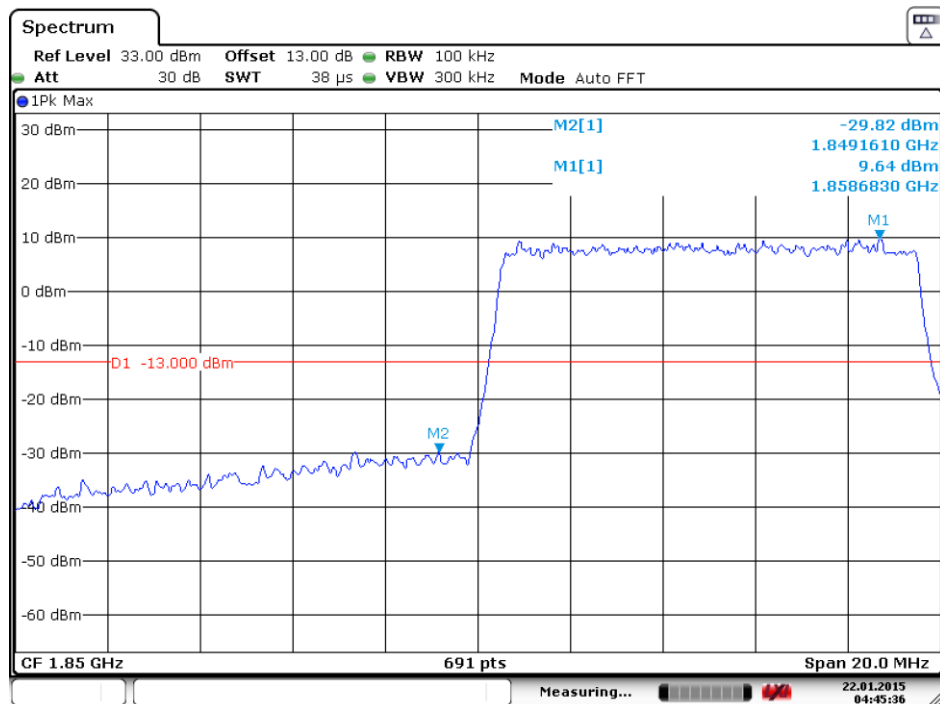
Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0

|           |            |            |      |
|-----------|------------|------------|------|
| Band      | LTE Band 2 | Modulation | QPSK |
| Bandwidth | 10MHz      |            |      |



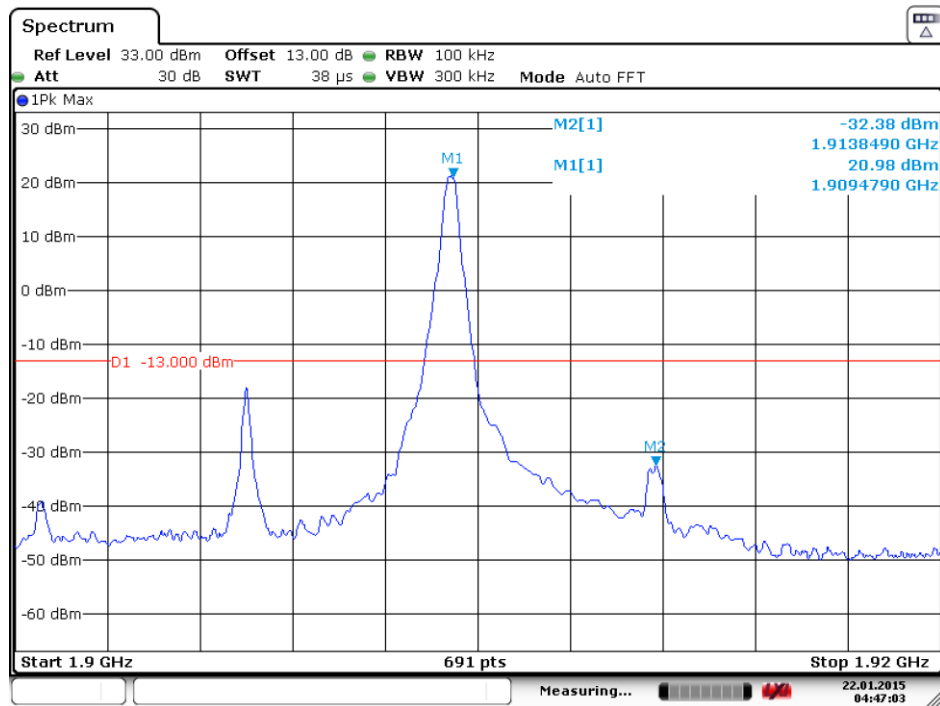
Date: 22.JAN.2015 04:45:12

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



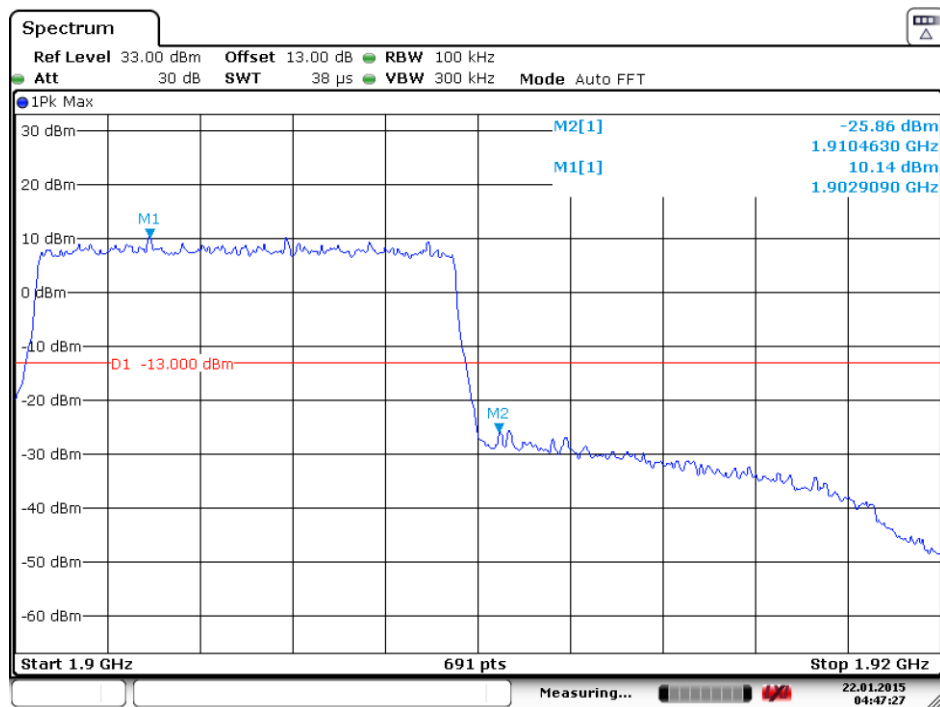
Date: 22.JAN.2015 04:45:37

Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 22.JAN.2015 04:47:03

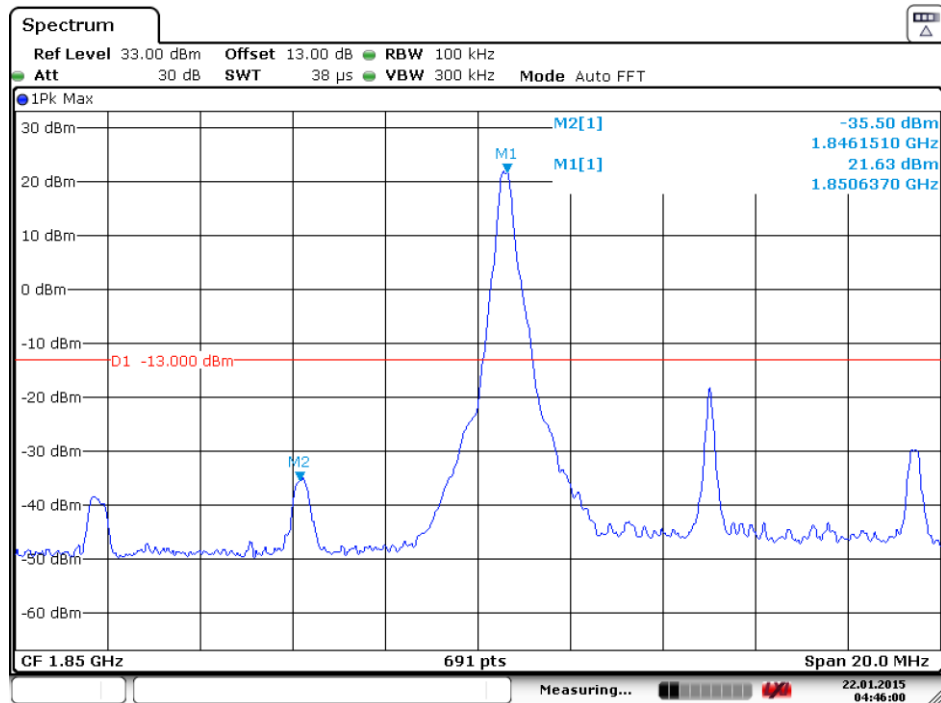
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 22.JAN.2015 04:47:27

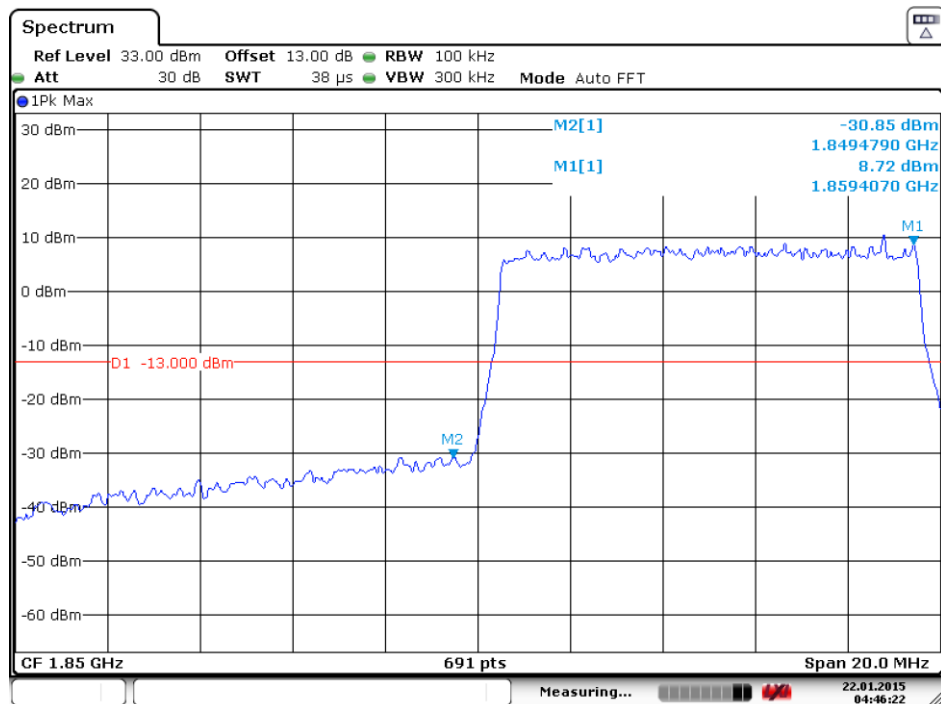
Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

|           |            |            |       |
|-----------|------------|------------|-------|
| Band      | LTE Band 2 | Modulation | 16QAM |
| Bandwidth | 10MHz      |            |       |



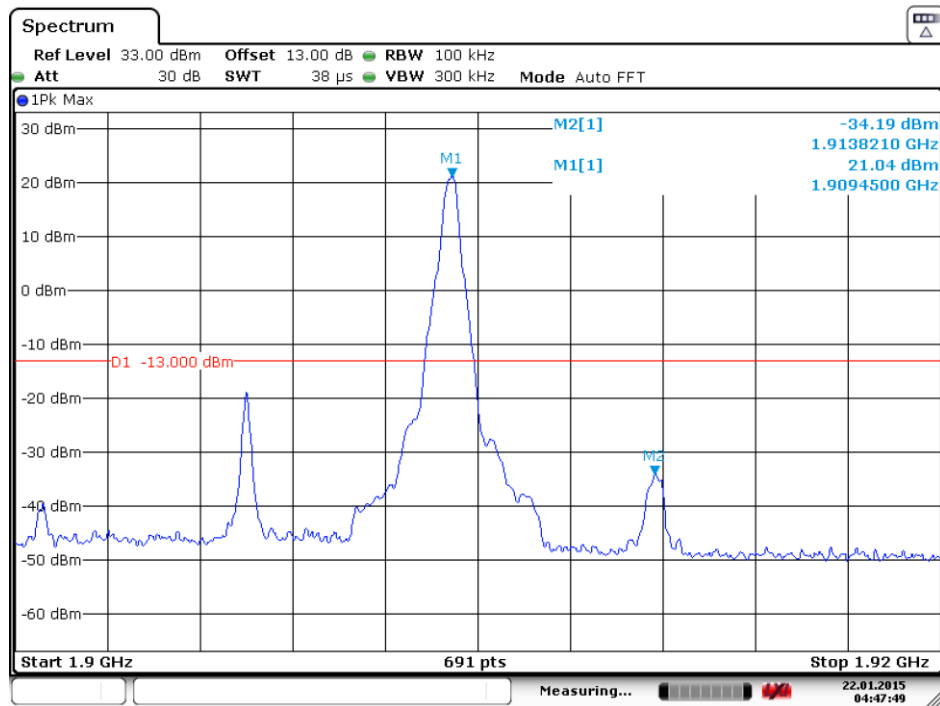
Date: 22.JAN.2015 04:46:00

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



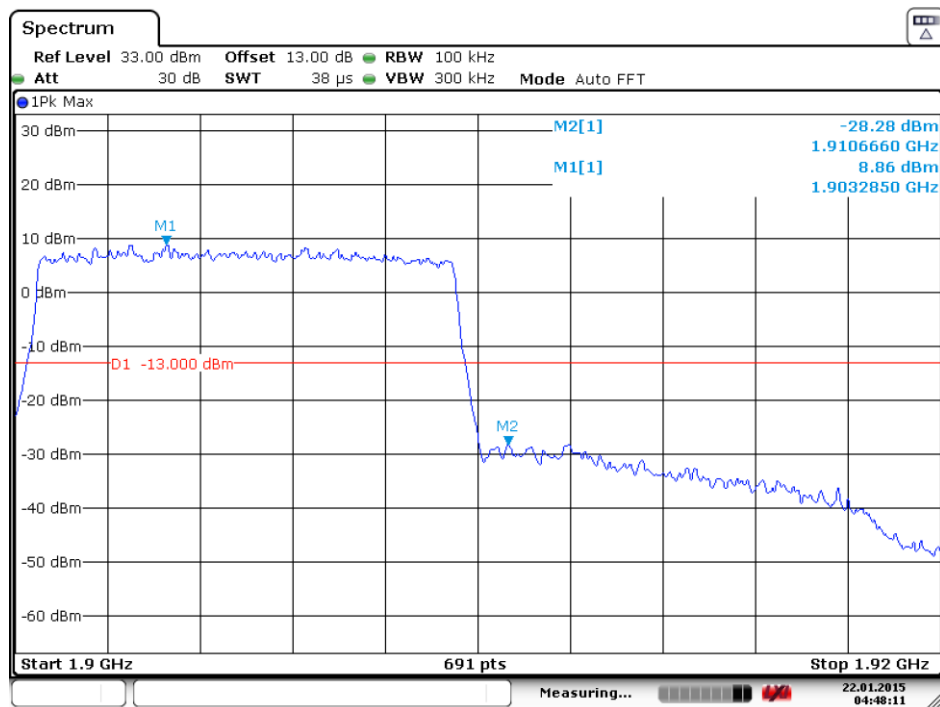
Date: 22.JAN.2015 04:46:22

Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



Date: 22.JAN.2015 04:47:50

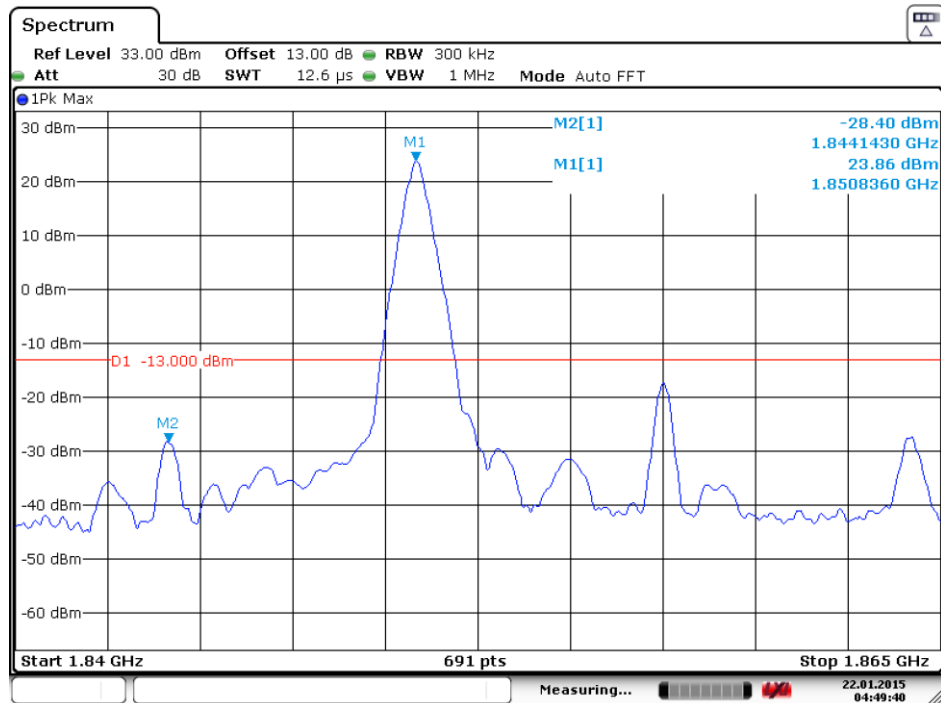
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49



Date: 22.JAN.2015 04:48:11

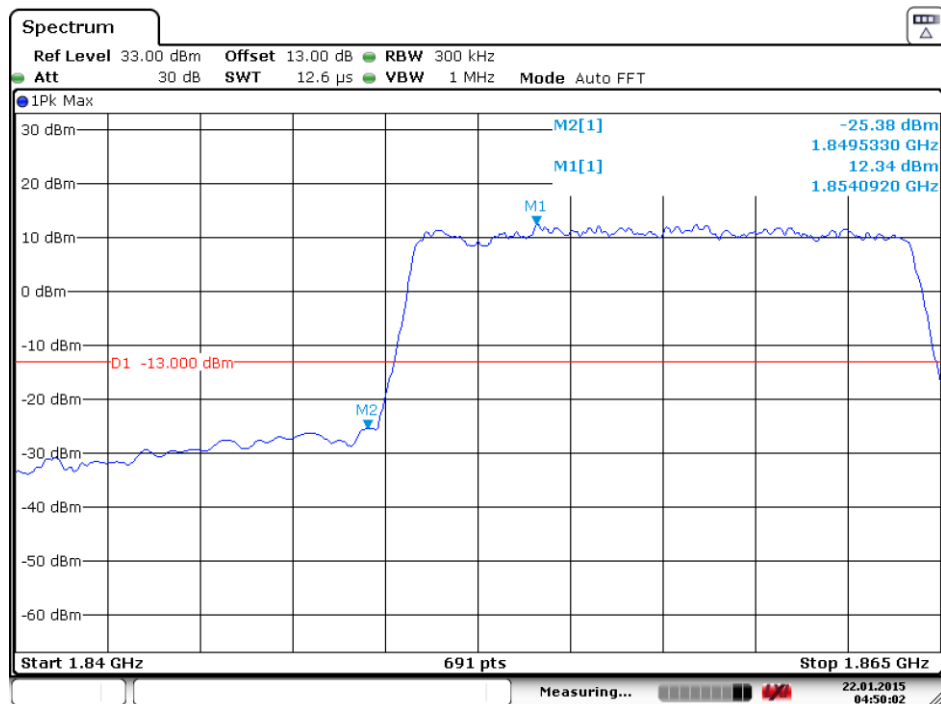
Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0

|           |            |            |      |
|-----------|------------|------------|------|
| Band      | LTE Band 2 | Modulation | QPSK |
| Bandwidth | 15MHz      |            |      |



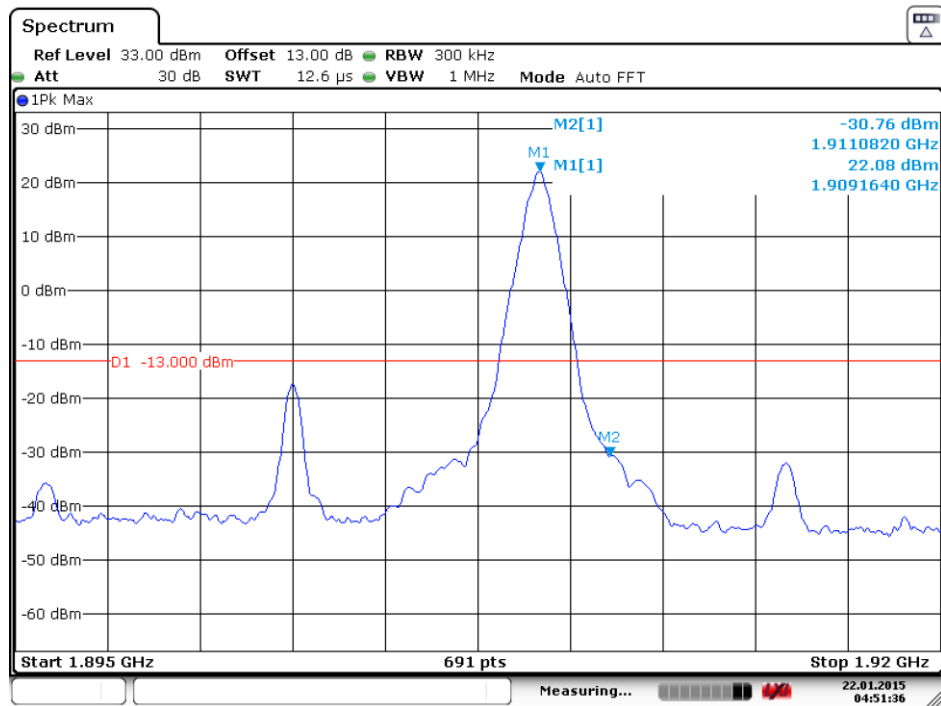
Date: 22.JAN.2015 04:49:40

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



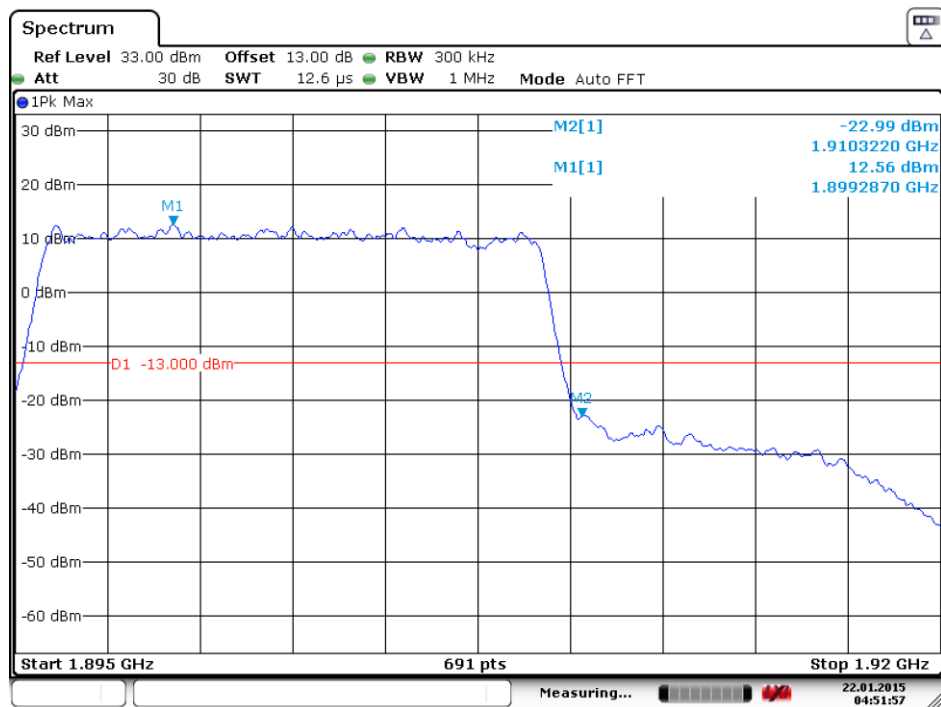
Date: 22.JAN.2015 04:50:02

Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



Date: 22.JAN.2015 04:51:36

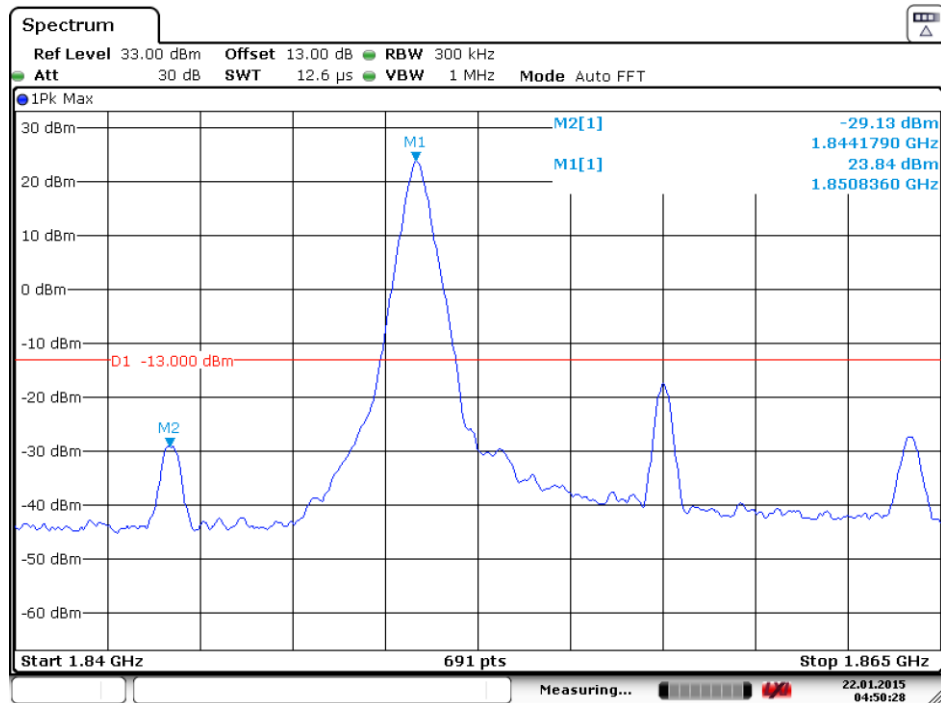
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



Date: 22.JAN.2015 04:51:57

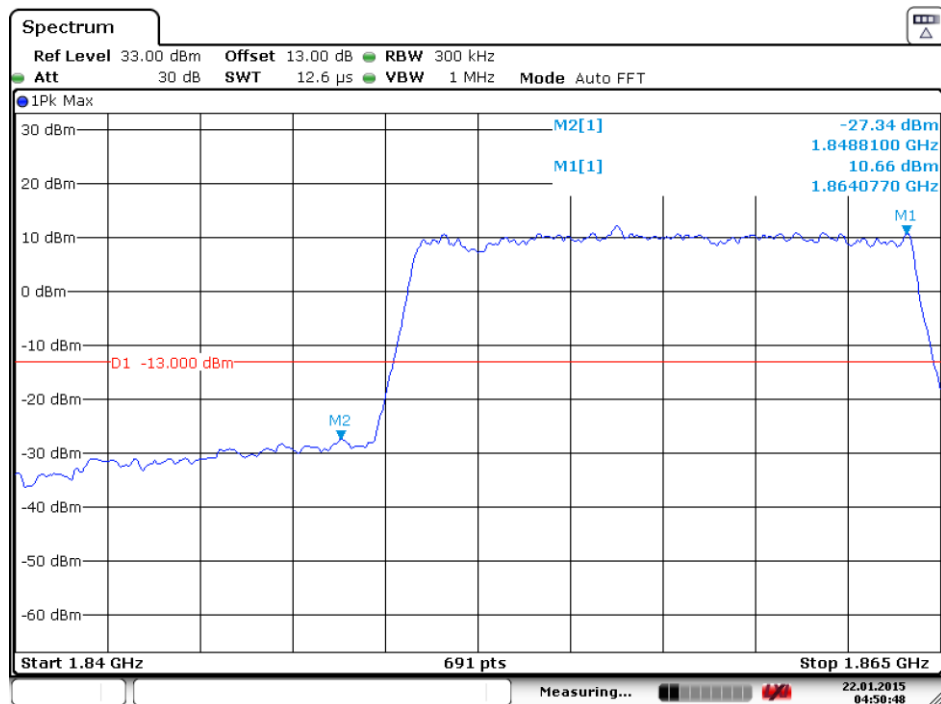
Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0

|           |            |            |       |
|-----------|------------|------------|-------|
| Band      | LTE Band 2 | Modulation | 16QAM |
| Bandwidth | 15MHz      |            |       |



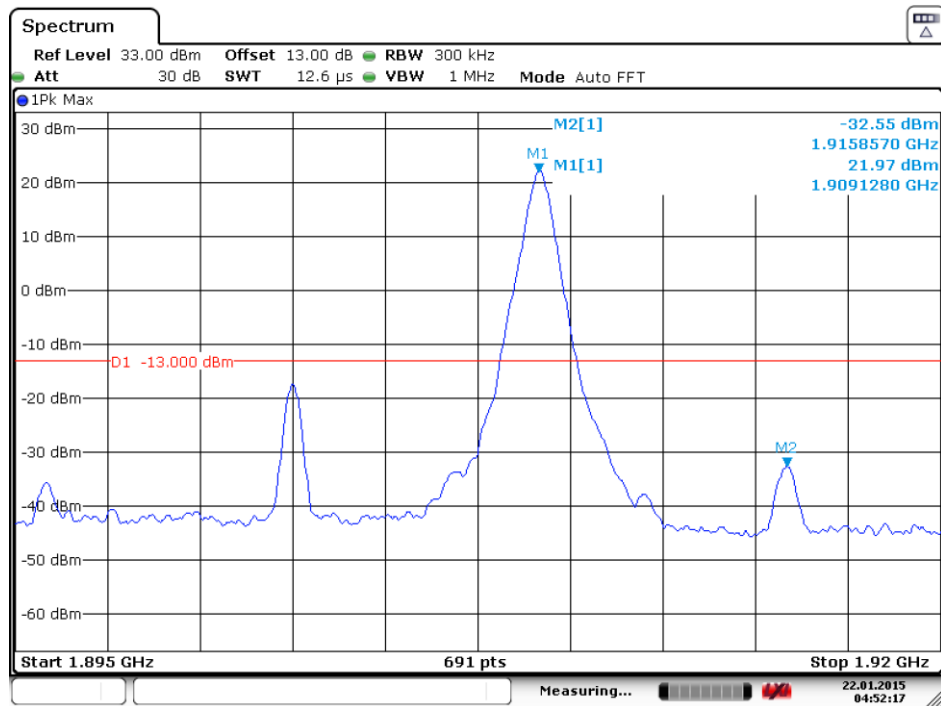
Date: 22.JAN.2015 04:50:28

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



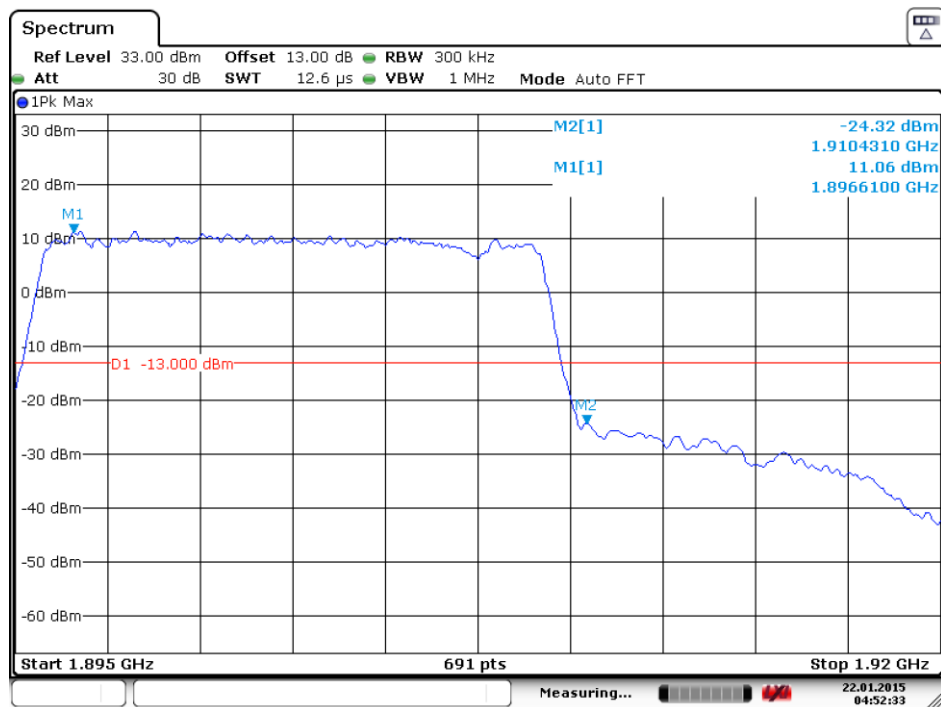
Date: 22.JAN.2015 04:50:48

Lower Band Edge Plot for 16QAM-RB Size 75, RB Offset 0



Date: 22.JAN.2015 04:52:18

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 74



Date: 22.JAN.2015 04:52:34

Higher Band Edge Plot for 16QAM-RB Size 75, RB Offset 0