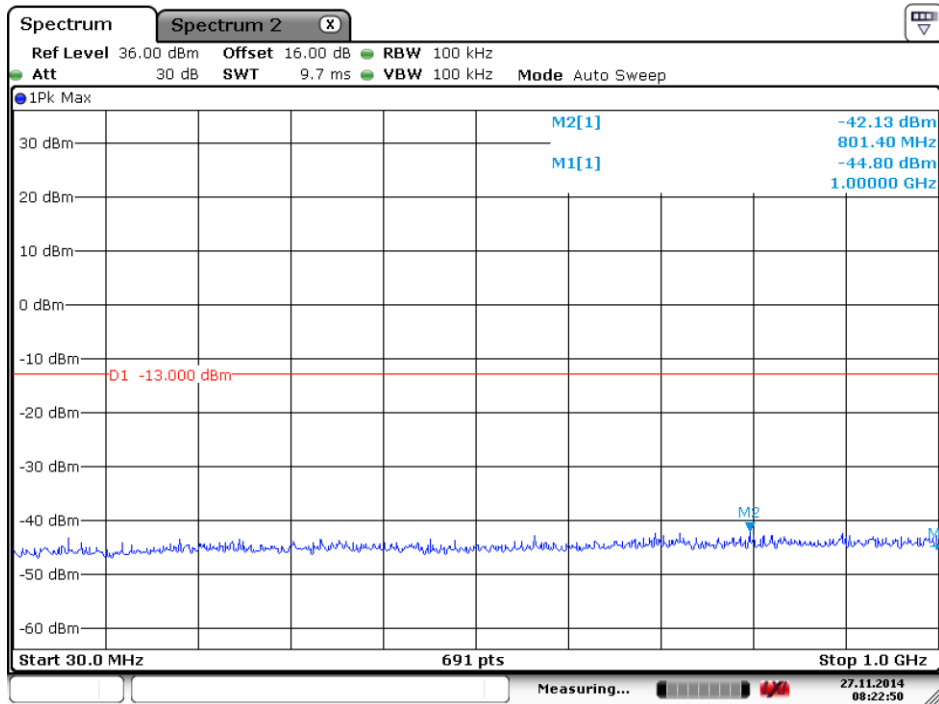


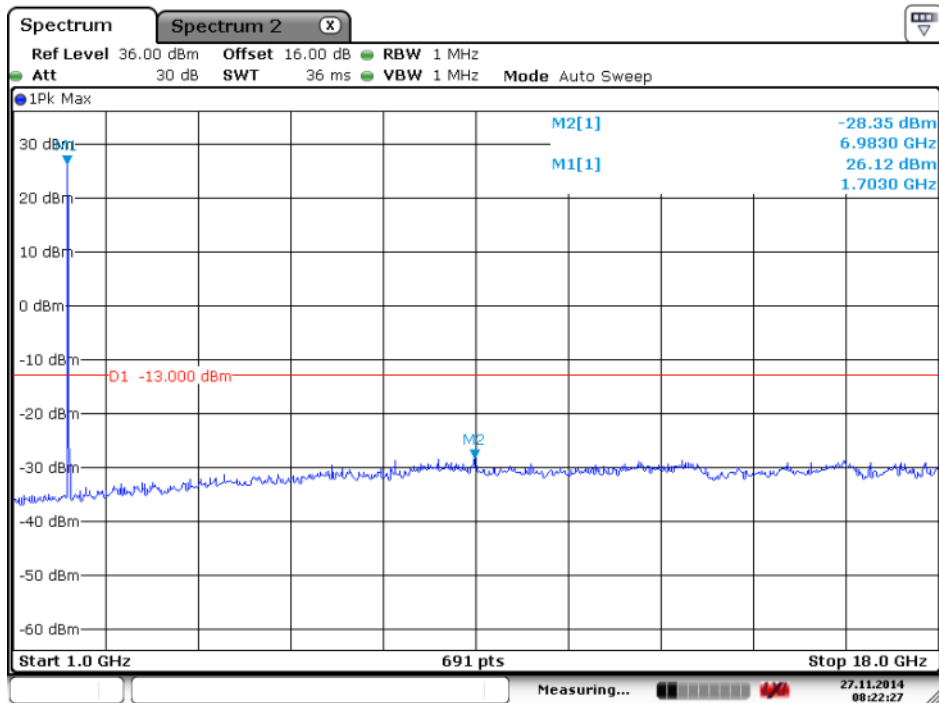


Band	LTE Band 4	Channel	Ch 20393(High)
Bandwidth	1.4MHz	Modulation	QPSK



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

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

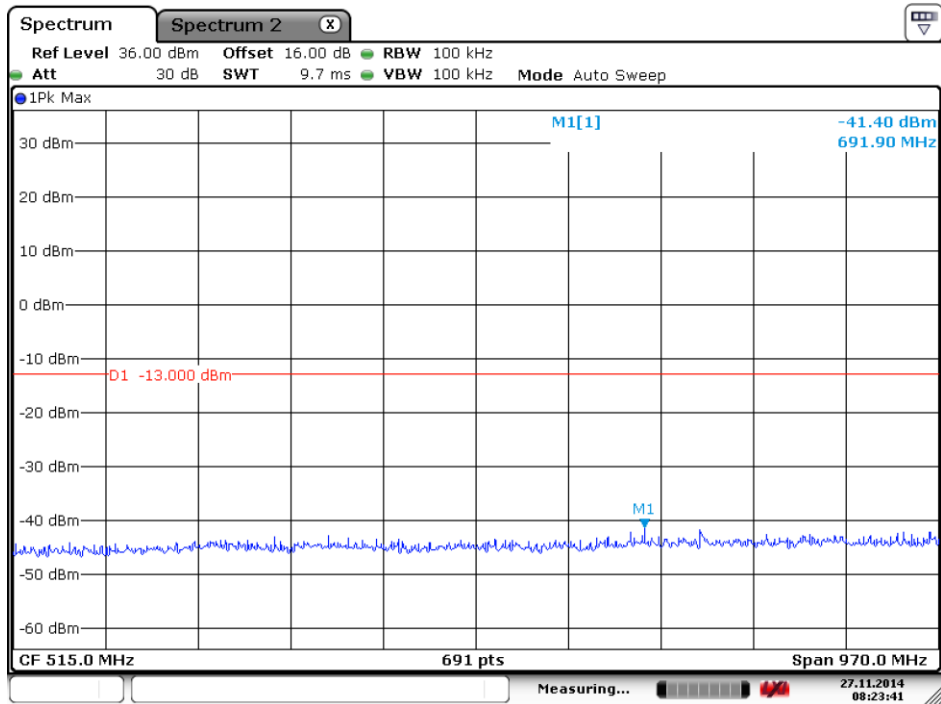


Date: 27.NOV.2014 08:22:27

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

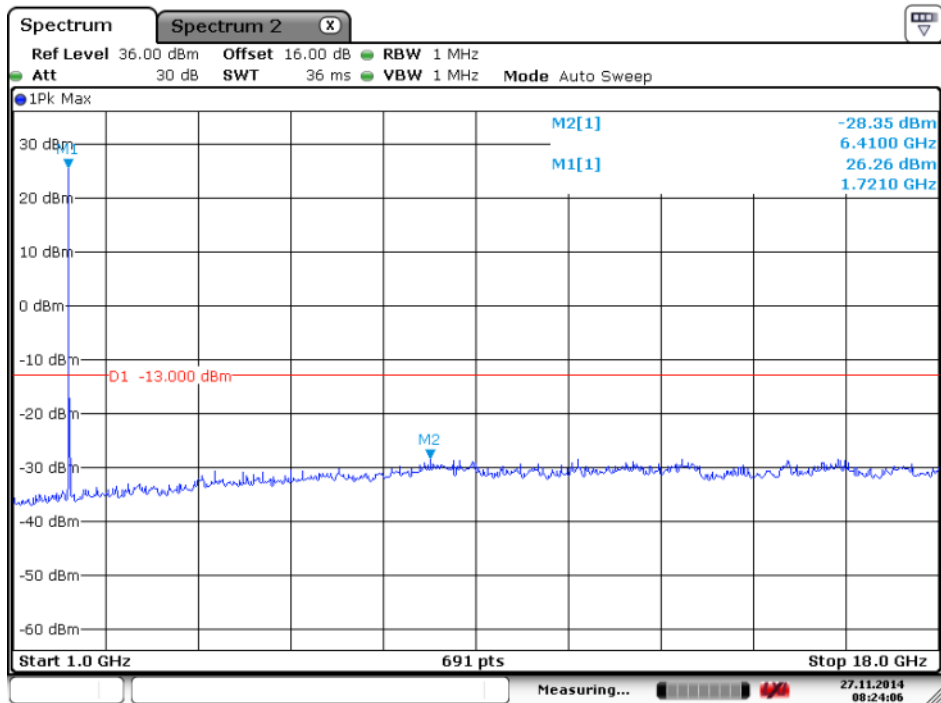


Band	LTE Band 4	Channel	Ch 19965(Low)
Bandwidth	3MHz	Modulation	QPSK



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

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

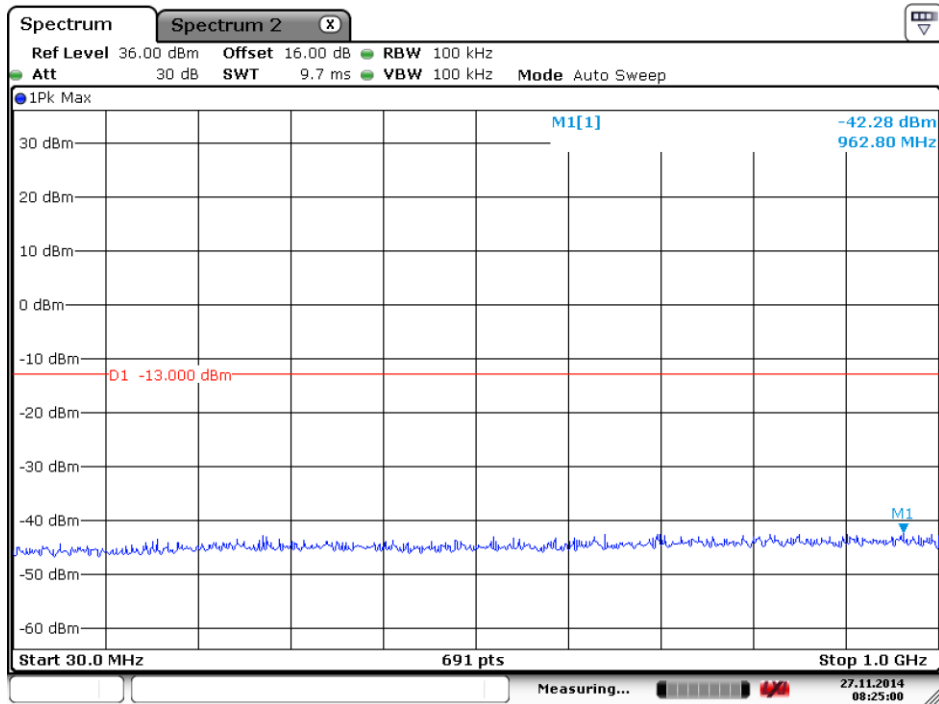


Date: 27.NOV.2014 08:24:06

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

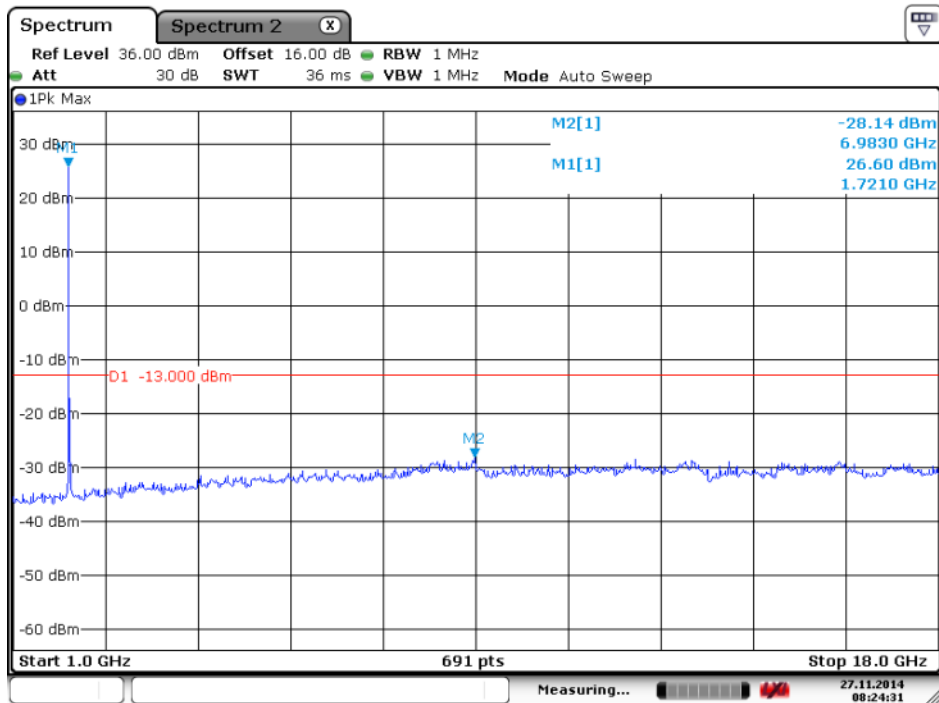


Band	LTE Band 4	Channel	Ch 20175(Middle)
Bandwidth	3MHz	Modulation	QPSK



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

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

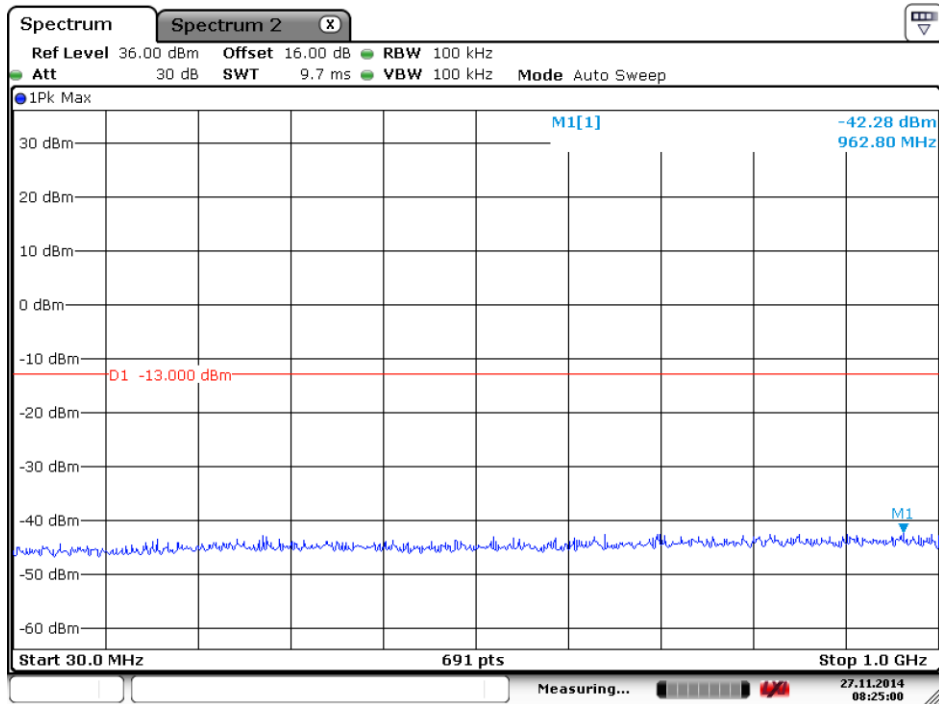


Date: 27.NOV.2014 08:24:31

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

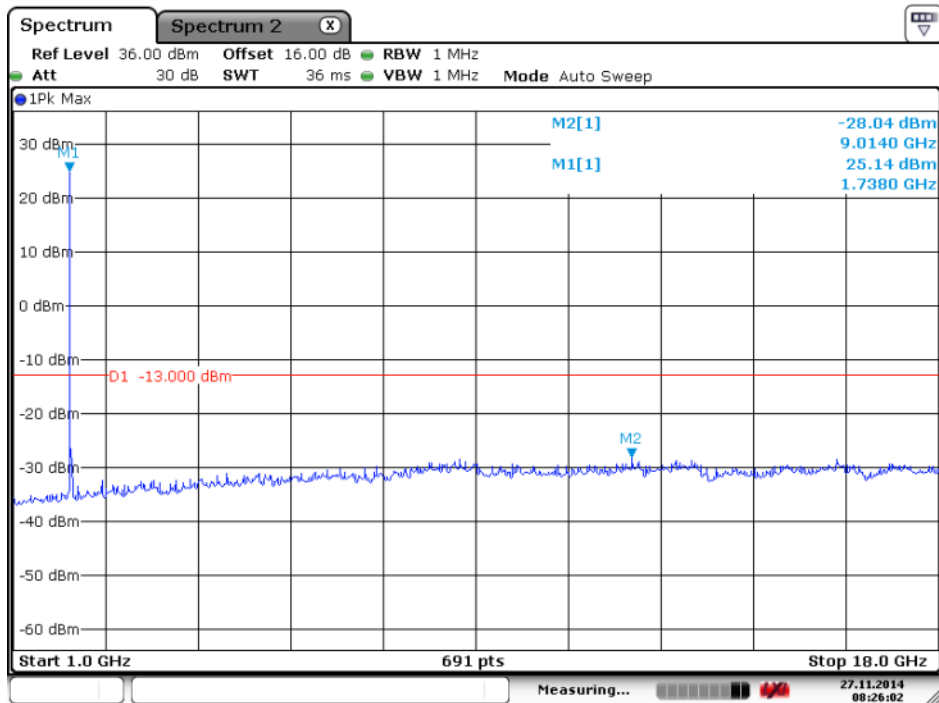


Band	LTE Band 4	Channel	Ch 20385(High)
Bandwidth	3MHz	Modulation	QPSK



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

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

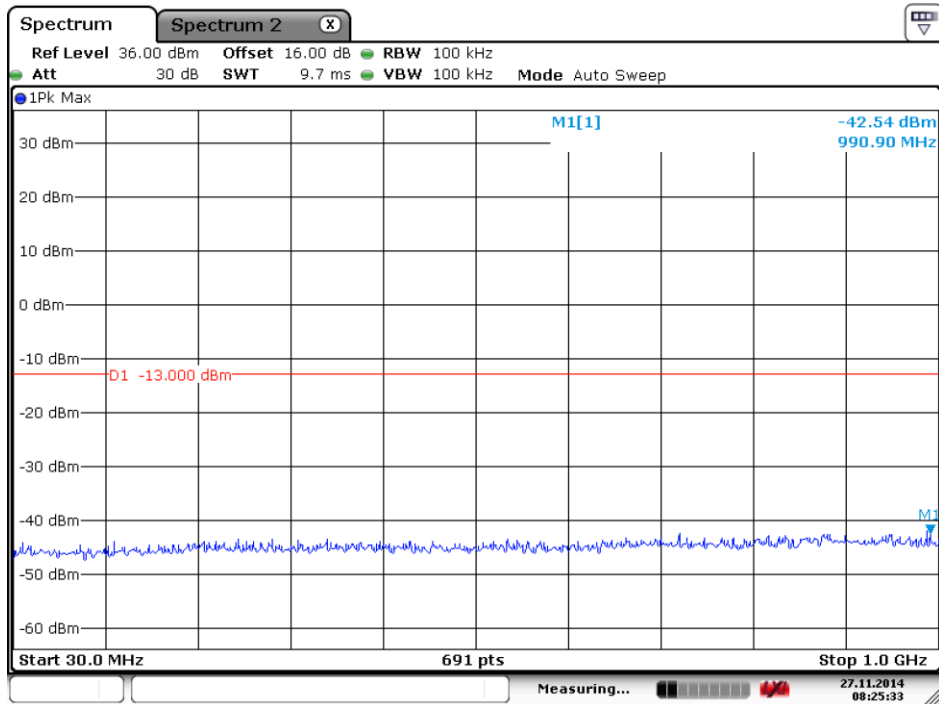


Date: 27.NOV.2014 08:26:02

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

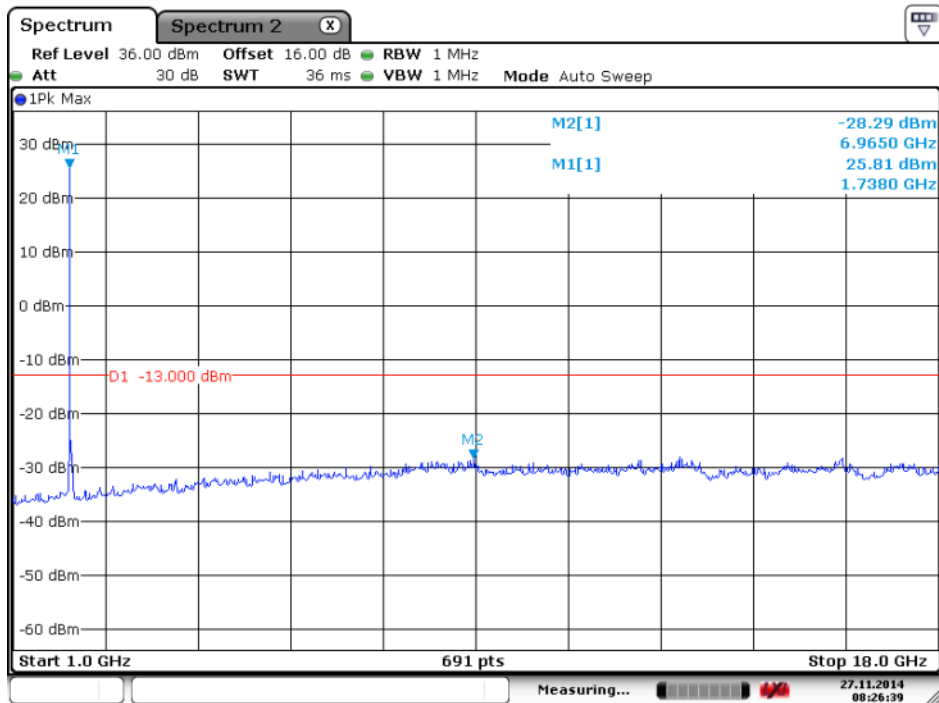


Band	LTE Band 4	Channel	Ch 19975(Low)
Bandwidth	5MHz	Modulation	QPSK



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

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

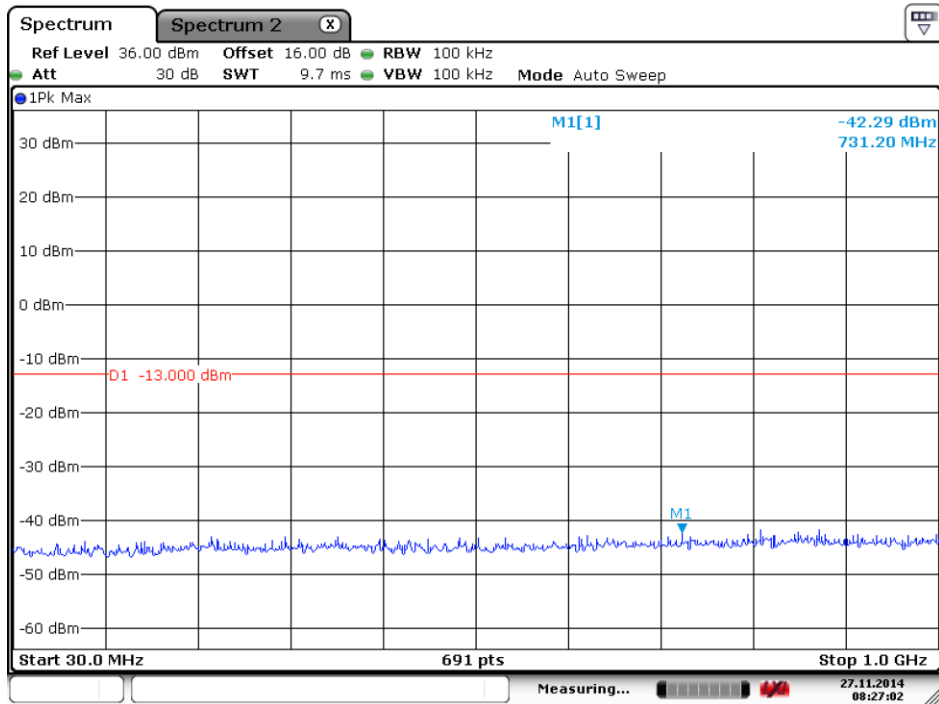


Date: 27.NOV.2014 08:26:40

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

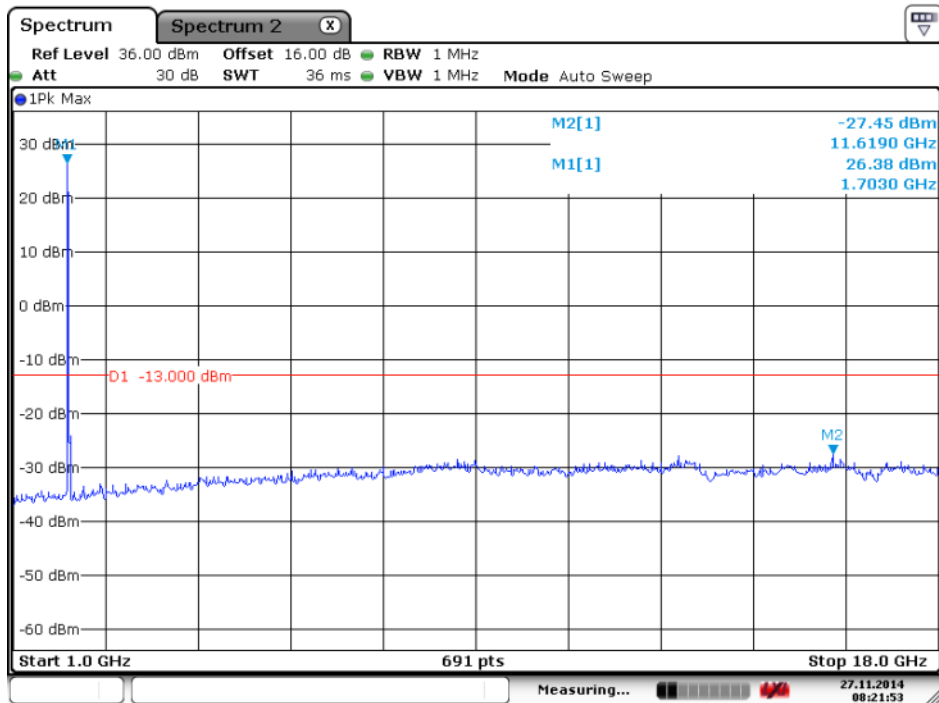


Band	LTE Band 4	Channel	Ch 20175(Middle)
Bandwidth	5MHz	Modulation	QPSK



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

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

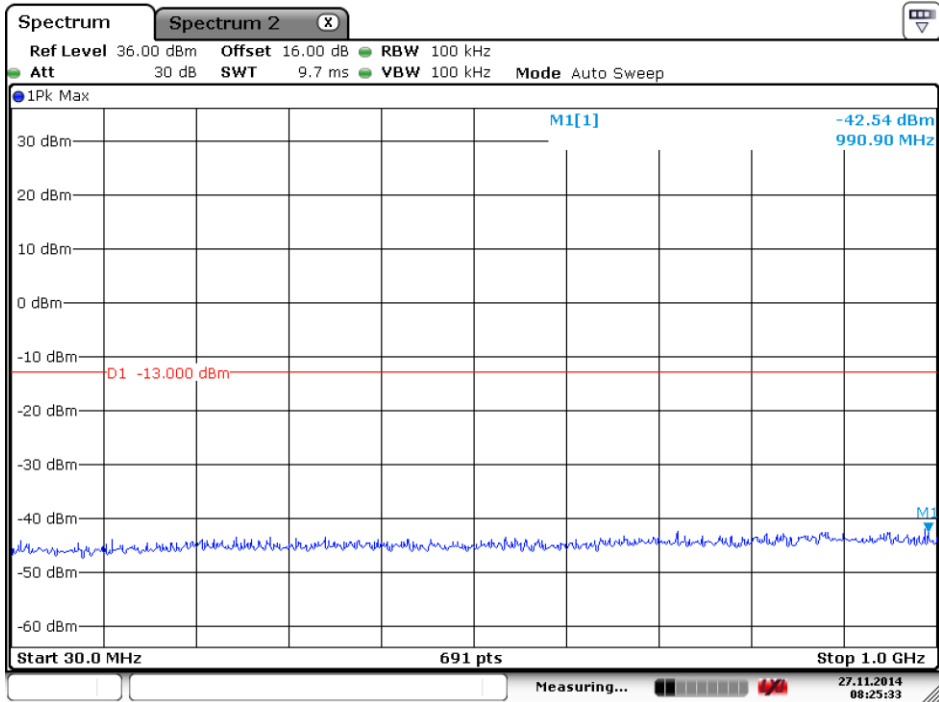


Date: 27.NOV.2014 08:21:53

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

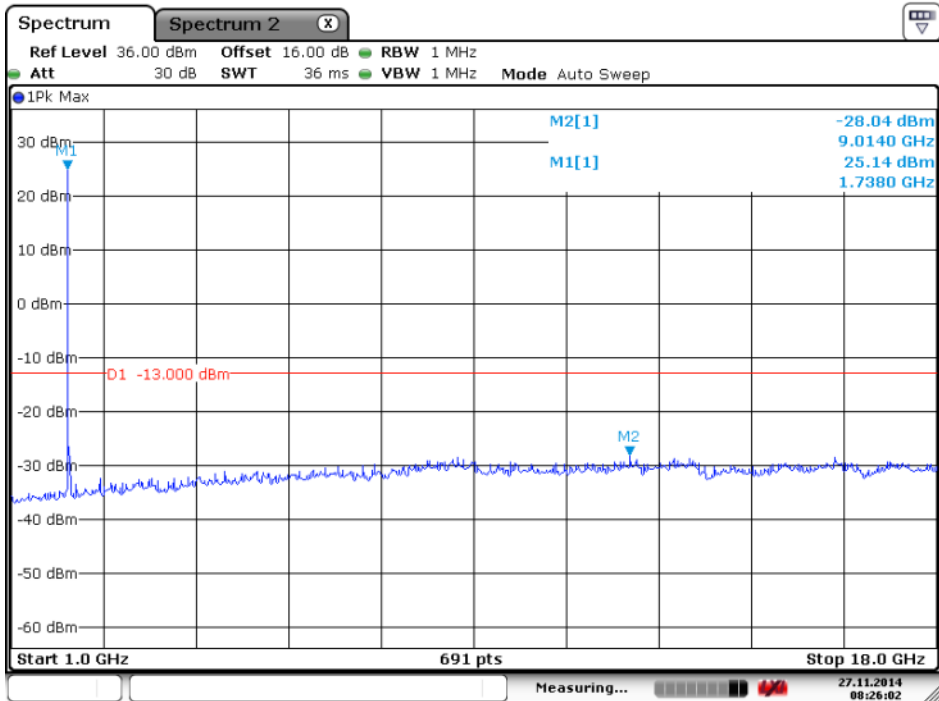


Band	LTE Band 4	Channel	Ch 20375(High)
Bandwidth	5MHz	Modulation	QPSK



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

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

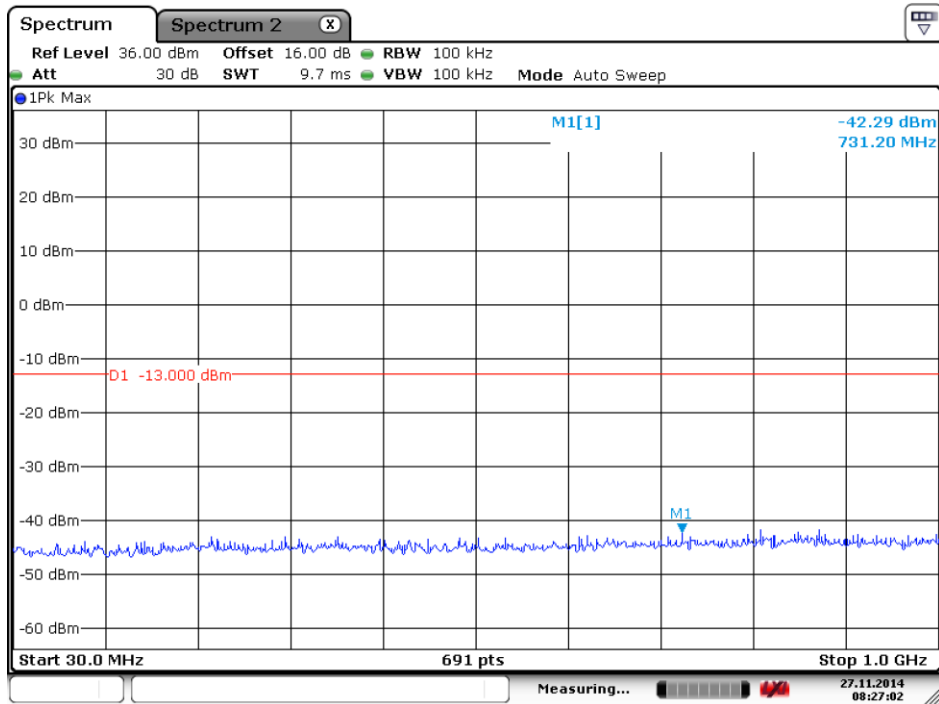


Date: 27.NOV.2014 08:26:02

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

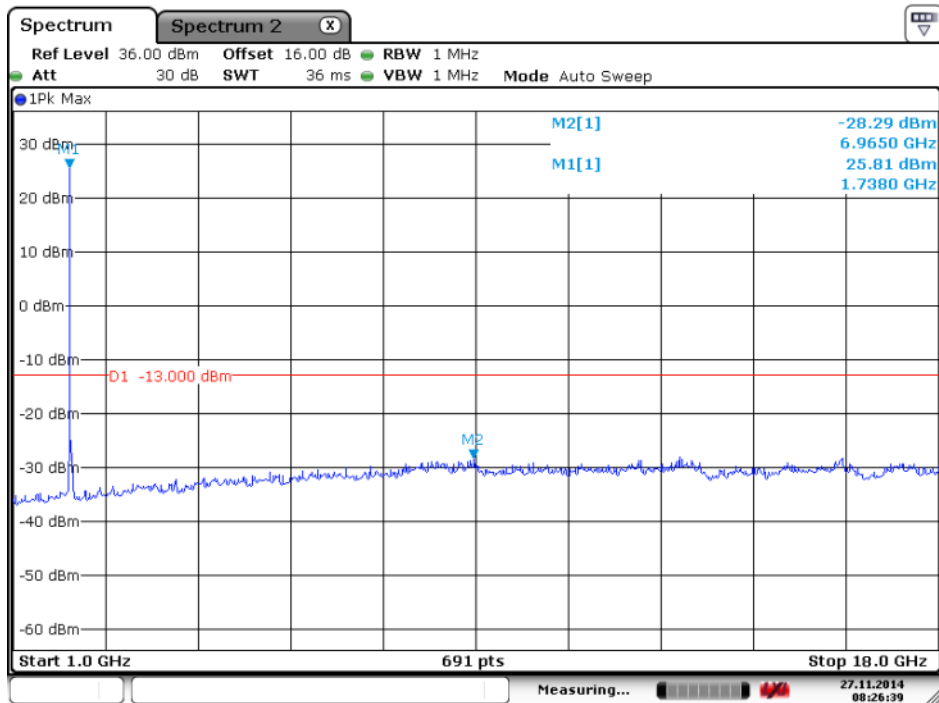


Band	LTE Band 4	Channel	Ch 20000(Low)
Bandwidth	10MHz	Modulation	QPSK



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

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



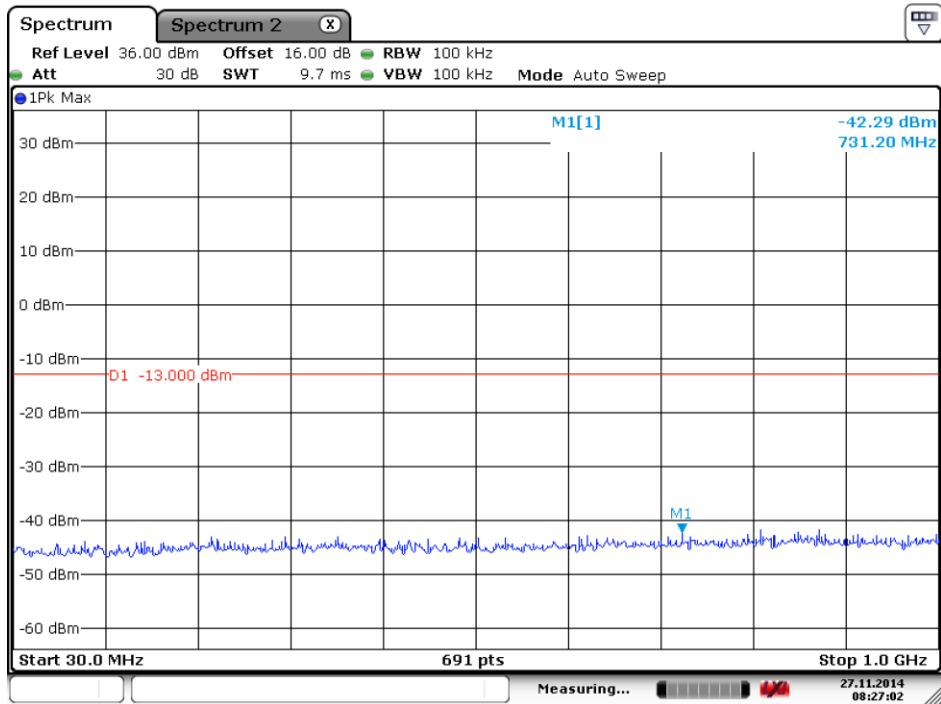
Date: 27.NOV.2014 08:26:40

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



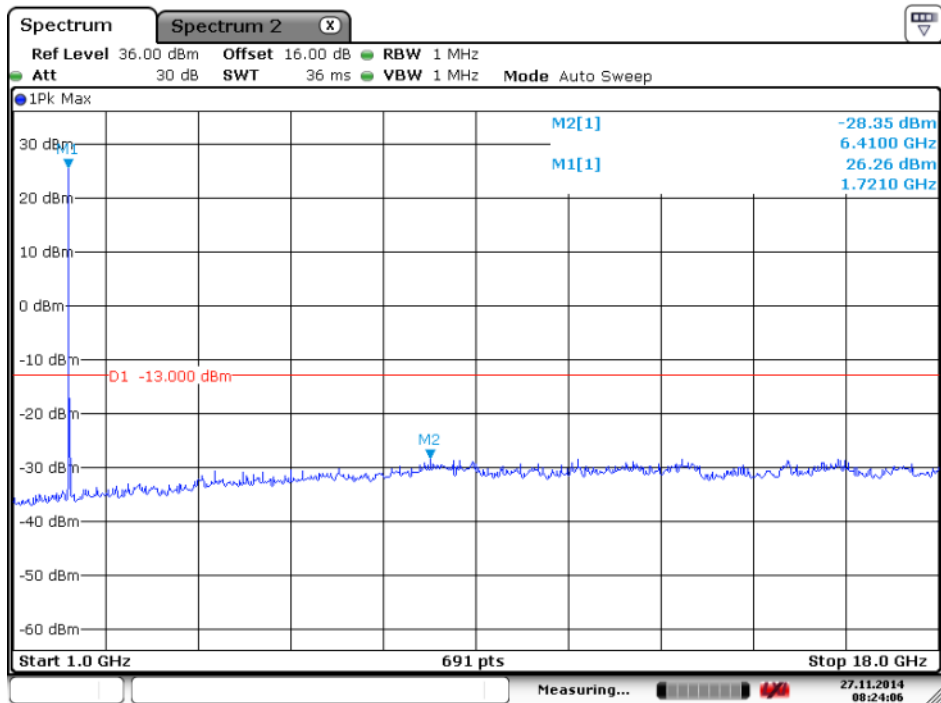


Band	LTE Band 4	Channel	Ch 20175(Middle)
Bandwidth	10MHz	Modulation	QPSK



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

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

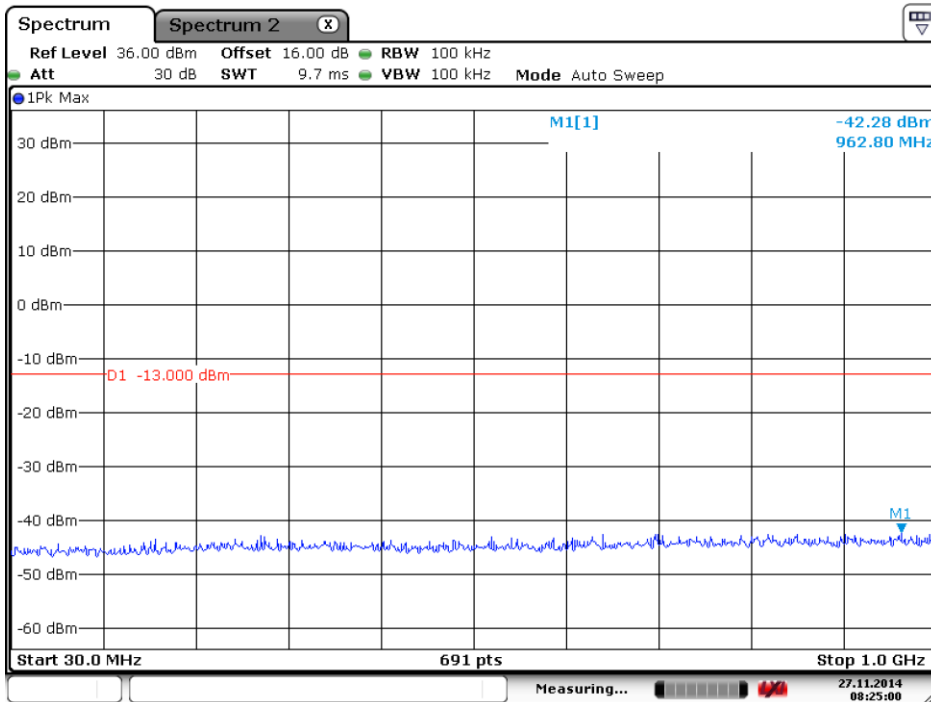


Date: 27.NOV.2014 08:24:06

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

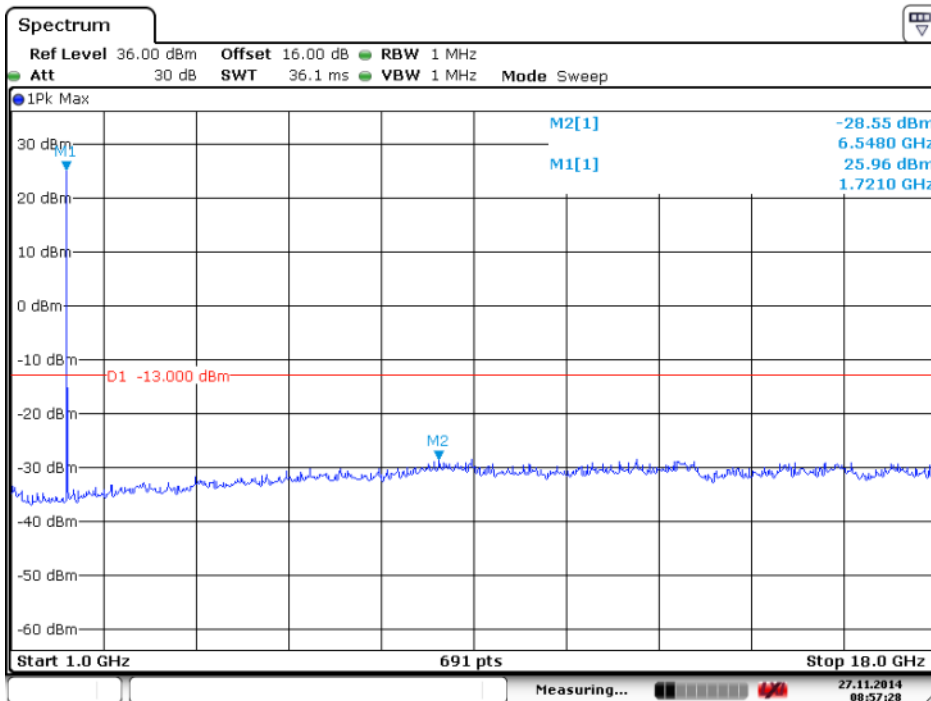


Band	LTE Band 4	Channel	Ch 20350(High)
Bandwidth	10MHz	Modulation	QPSK



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

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

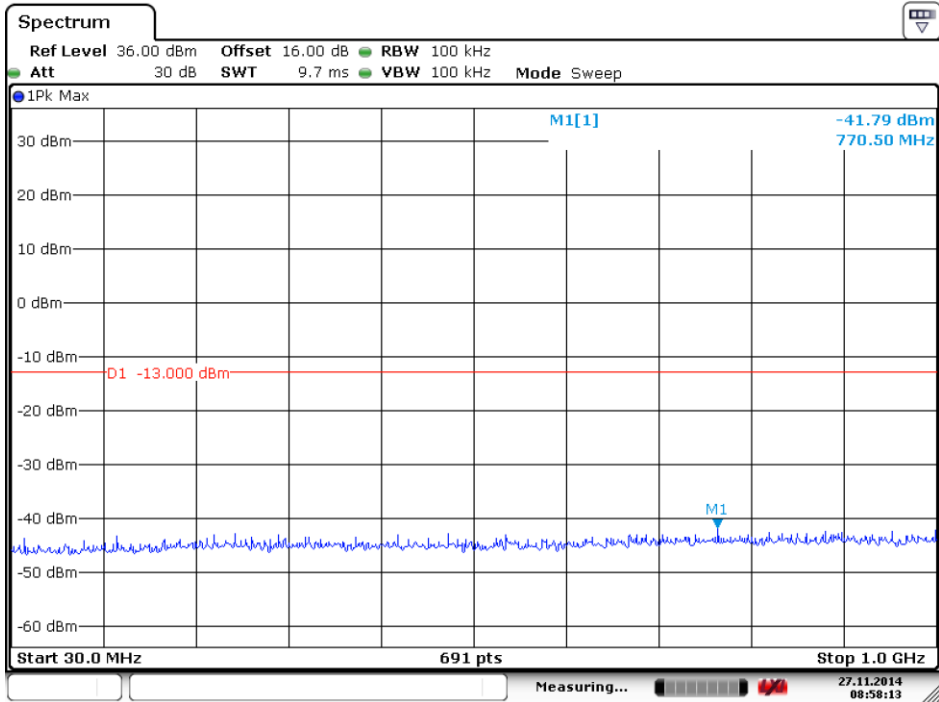


Date: 27.NOV.2014 08:57:28

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

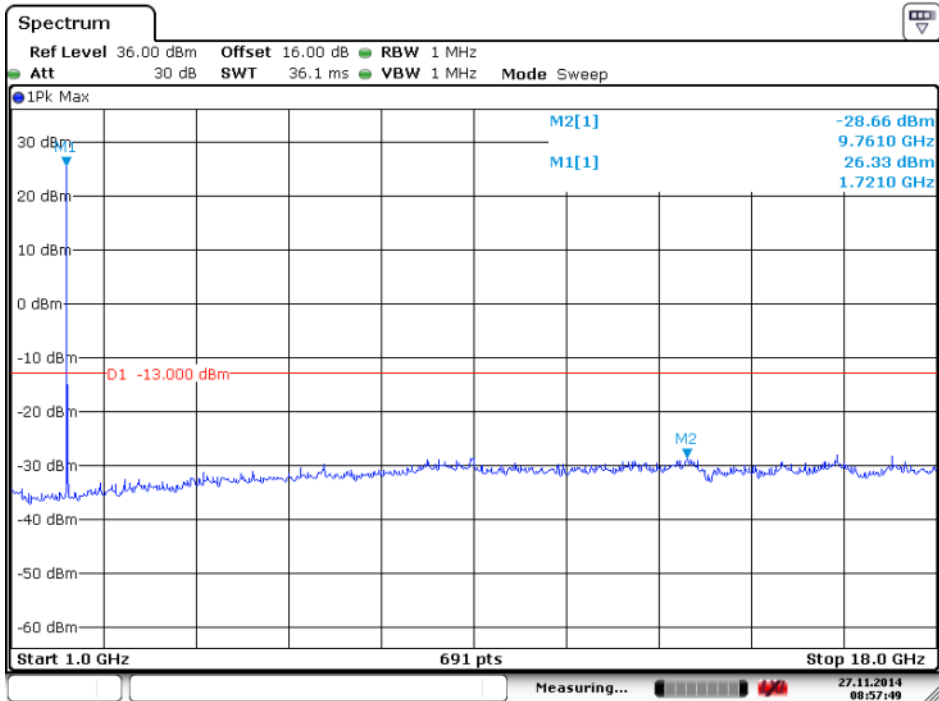


Band	LTE Band 4	Channel	Ch 20025(Low)
Bandwidth	15MHz	Modulation	QPSK



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

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

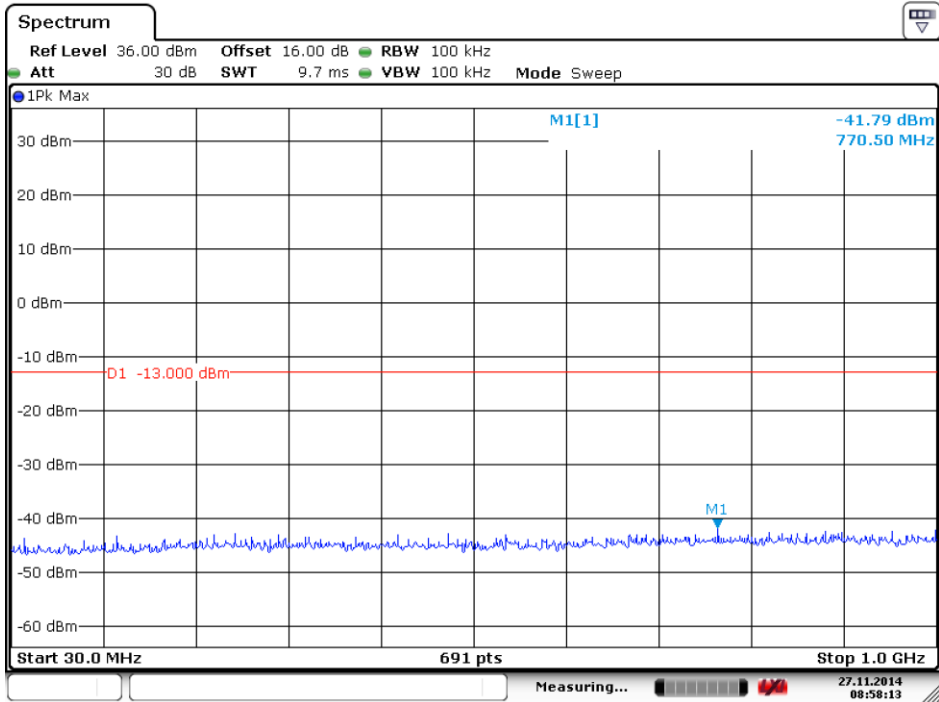


Date: 27.NOV.2014 08:57:49

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

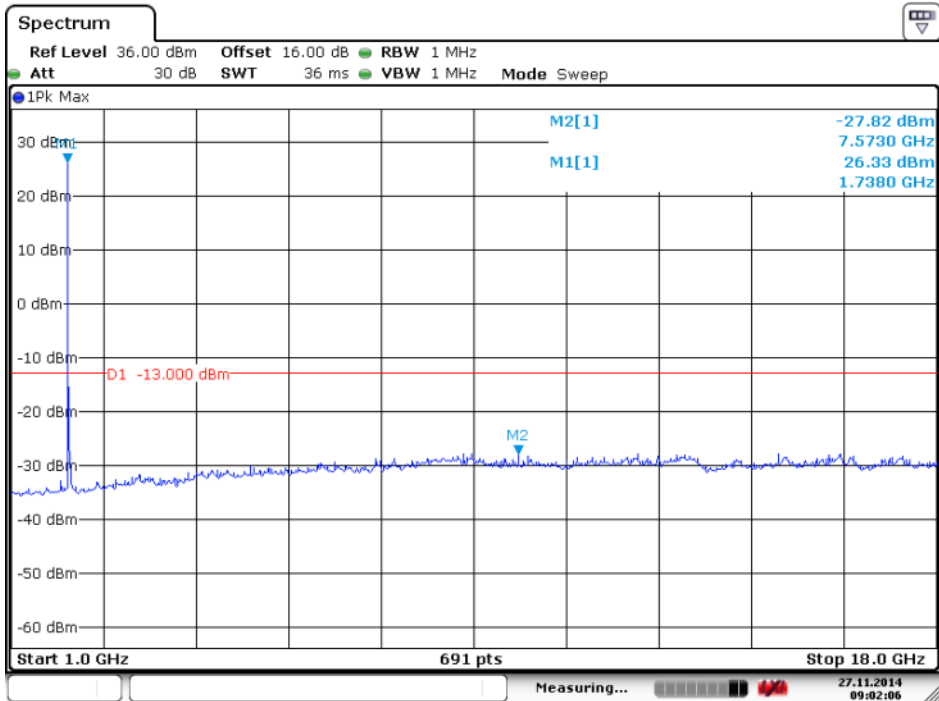


Band	LTE Band 4	Channel	Ch 20175(Middle)
Bandwidth	15MHz	Modulation	QPSK



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

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

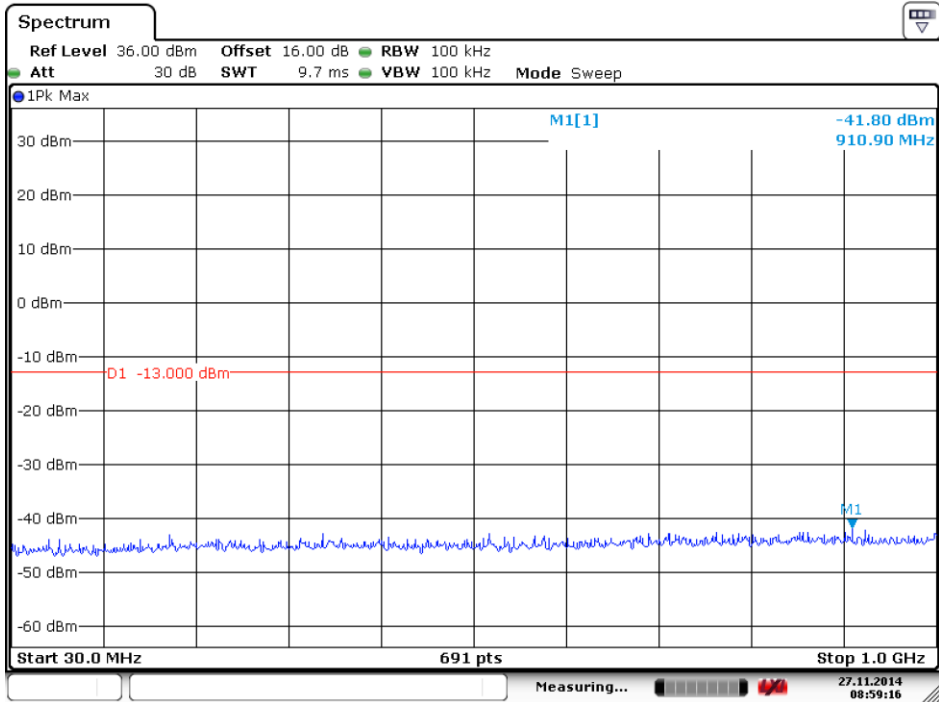


Date: 27.NOV.2014 09:02:07

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

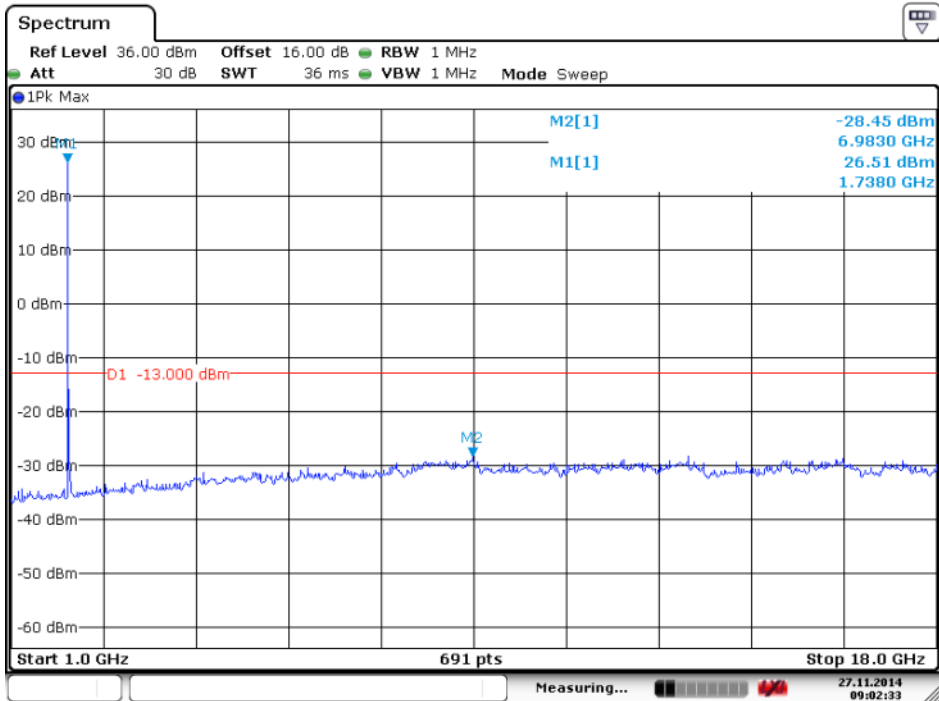


Band	LTE Band 4	Channel	Ch 20325(High)
Bandwidth	15MHz	Modulation	QPSK



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

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

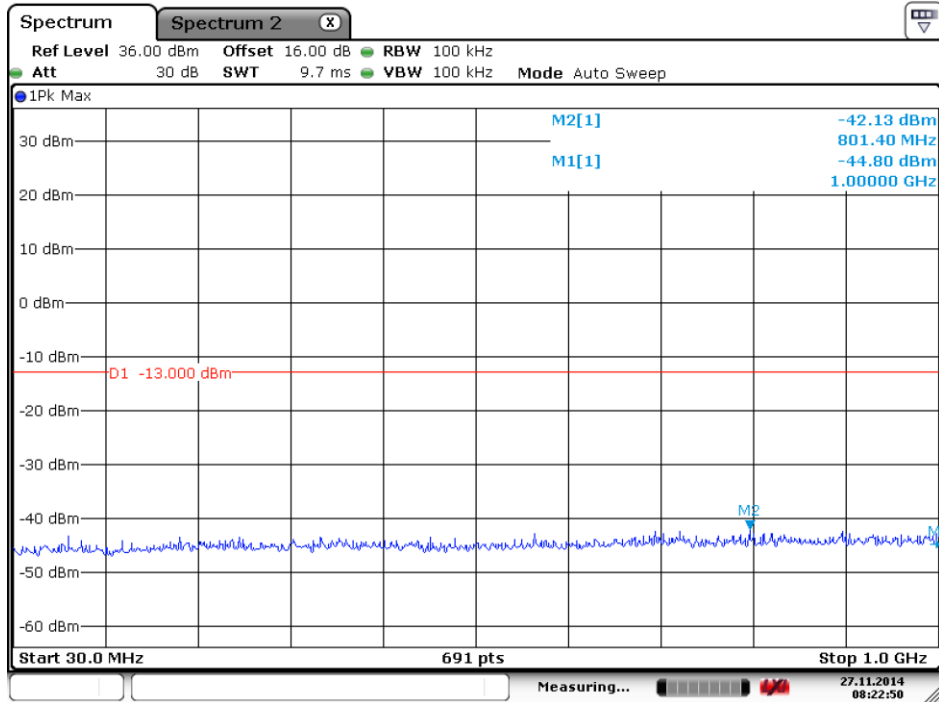


Date: 27.NOV.2014 09:02:33

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

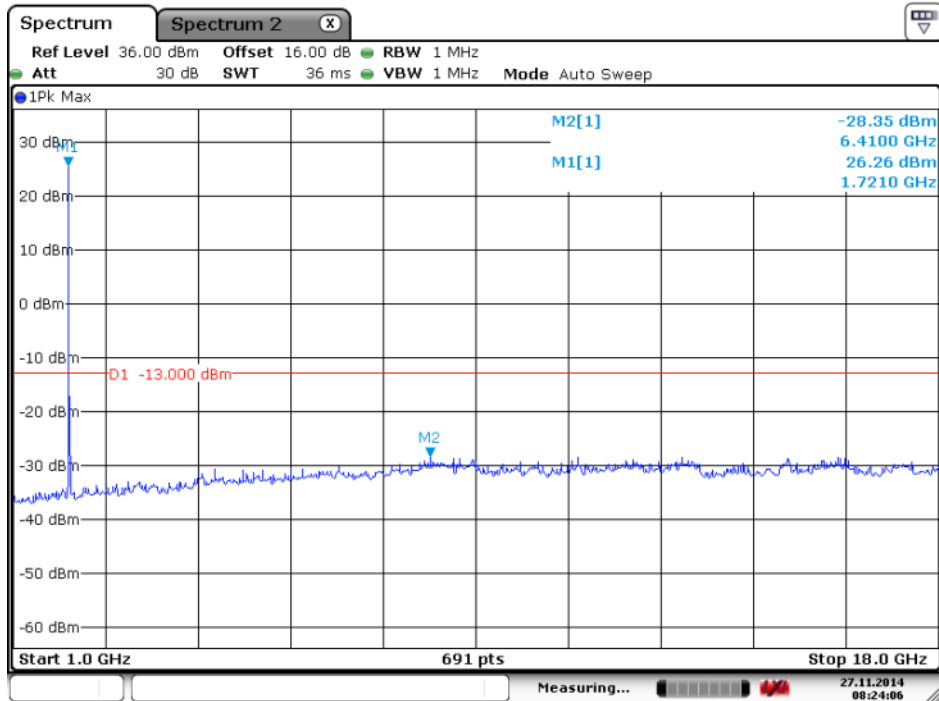


Band	LTE Band 4	Channel	Ch 20050(Low)
Bandwidth	20MHz	Modulation	QPSK



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

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

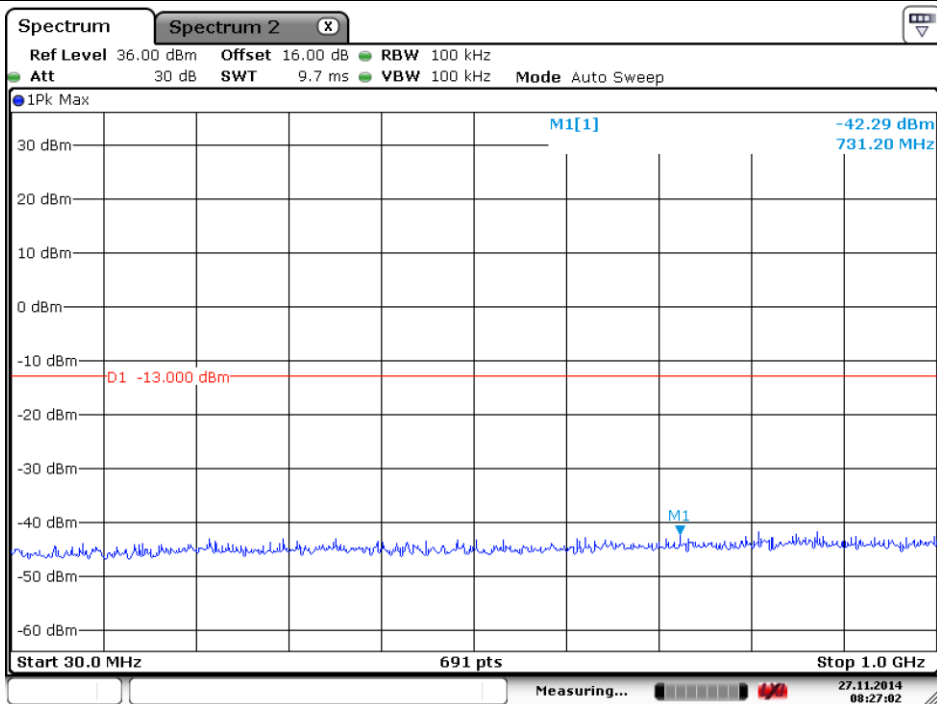


Date: 27.NOV.2014 08:24:06

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

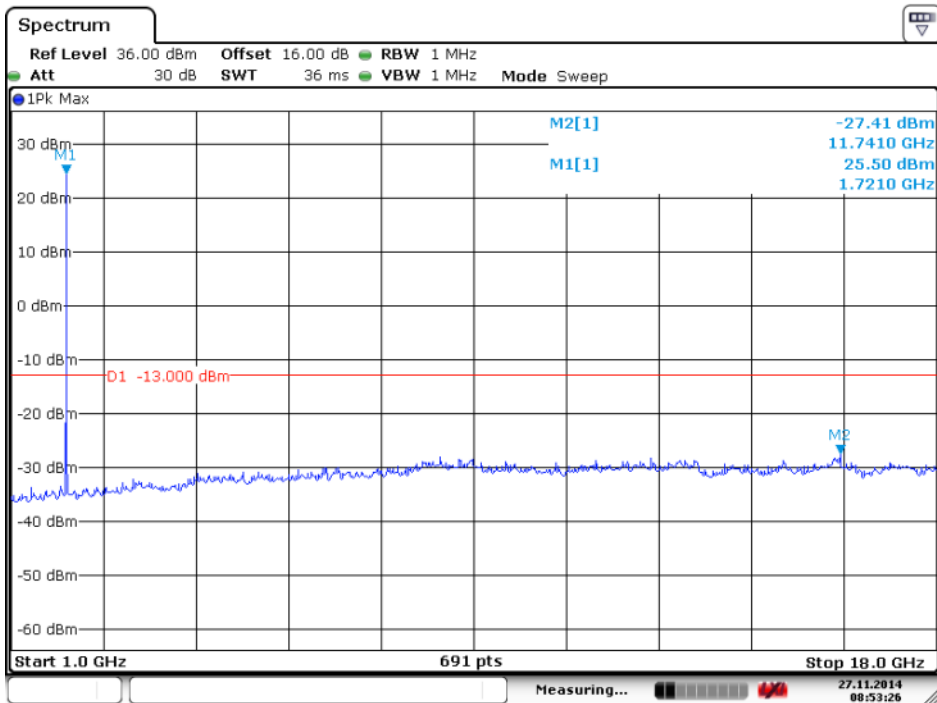


Band	LTE Band 4	Channel	Ch 20175(Middle)
Bandwidth	20MHz	Modulation	QPSK



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

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

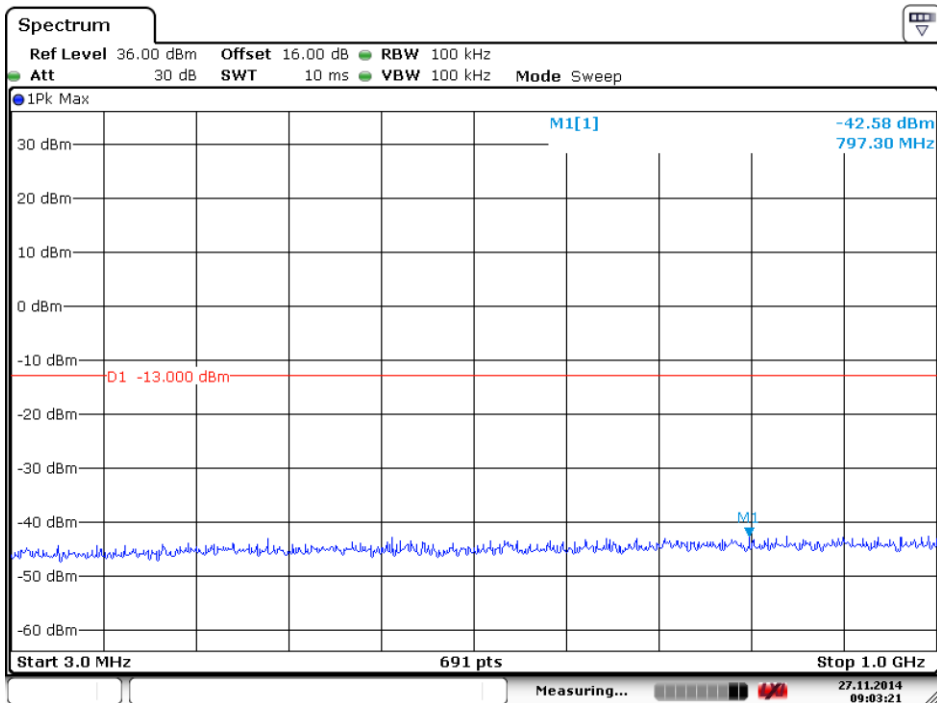


Date: 27.NOV.2014 08:53:27

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

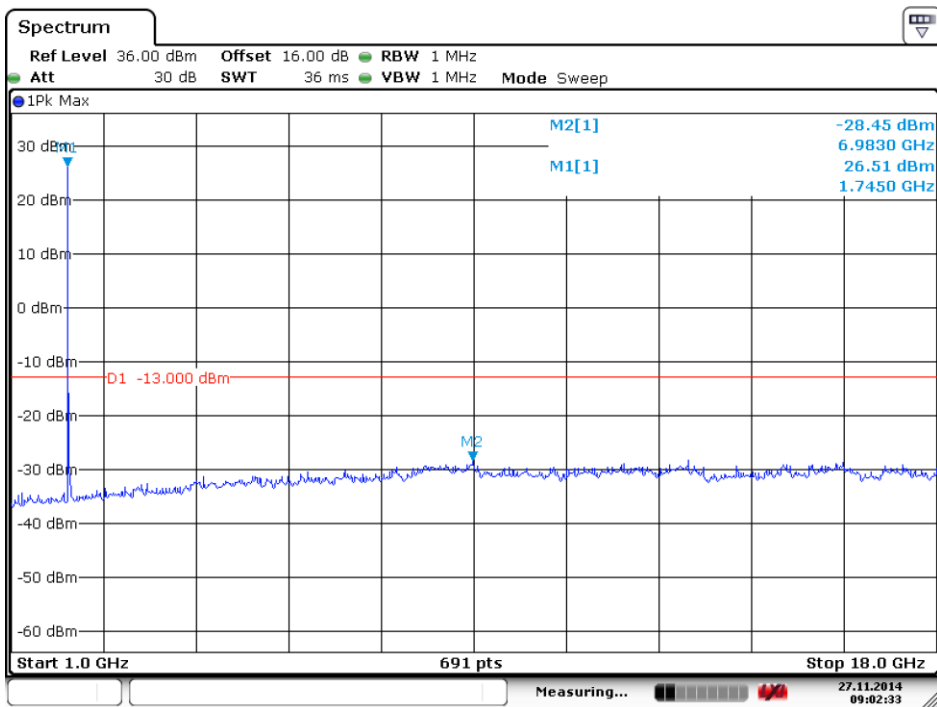


Band	LTE Band 4	Channel	Ch 20300(High)
Bandwidth	20MHz	Modulation	QPSK



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

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



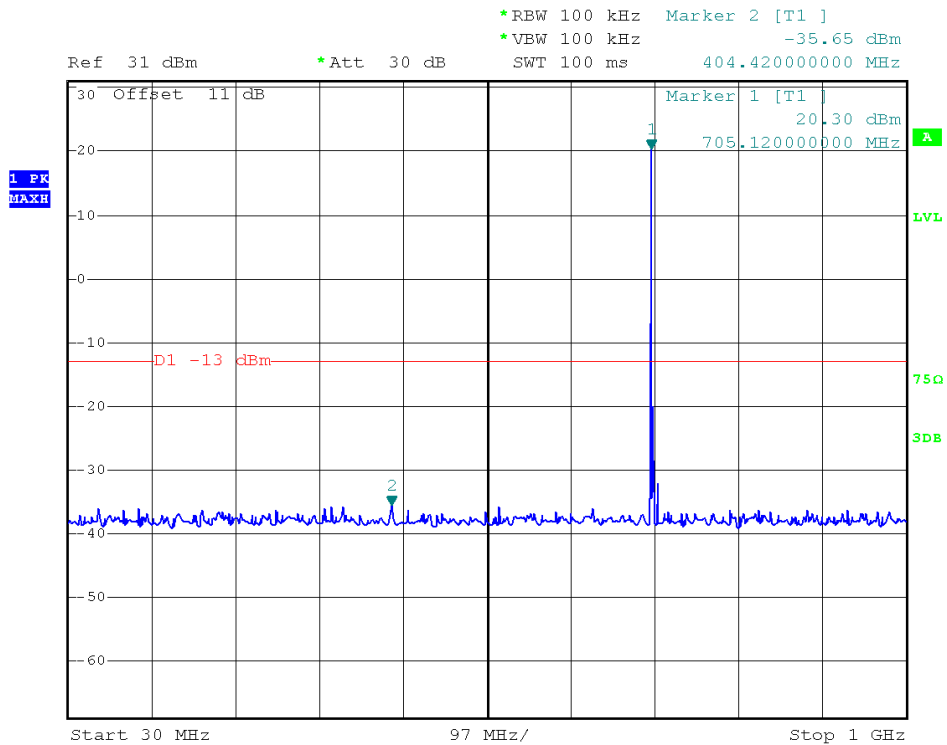
Date: 27.NOV.2014 09:02:33

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

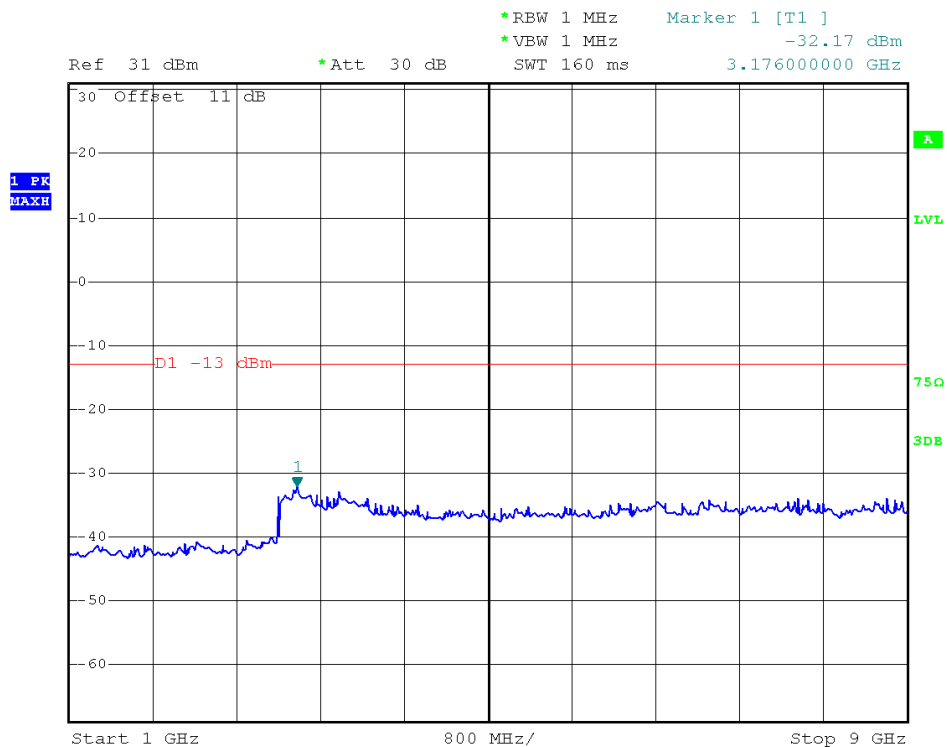




Band	LTE Band 17	Channel	Ch 23755(Low)
Bandwidth	5MHz	Modulation	QPSK



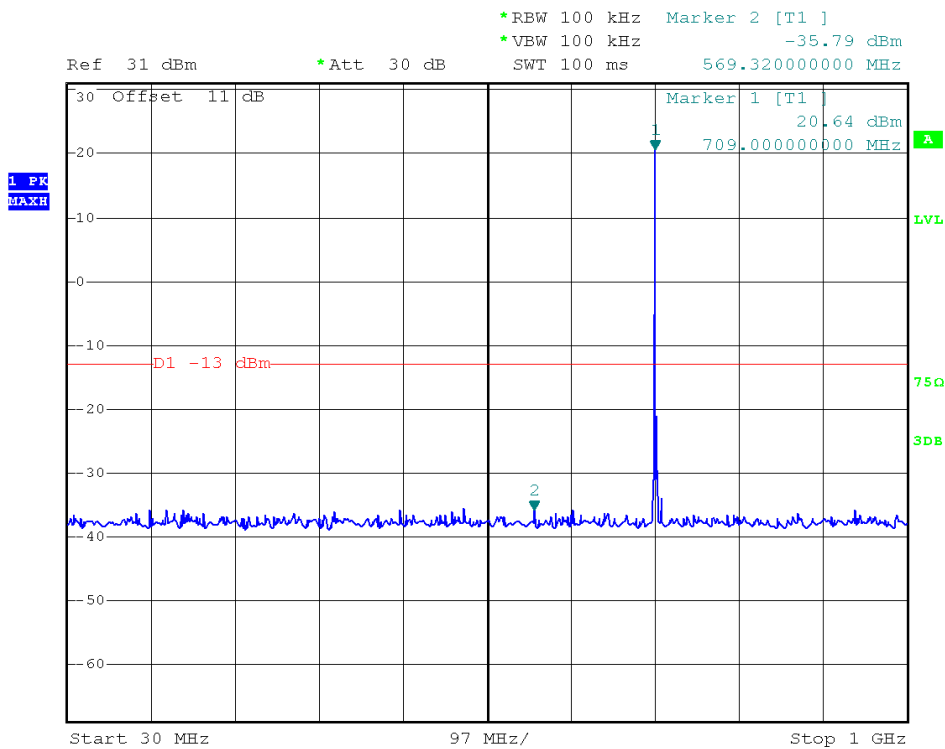
QPSK, (RB Size 1, RB Offset 0    30MHz to 1GHz)



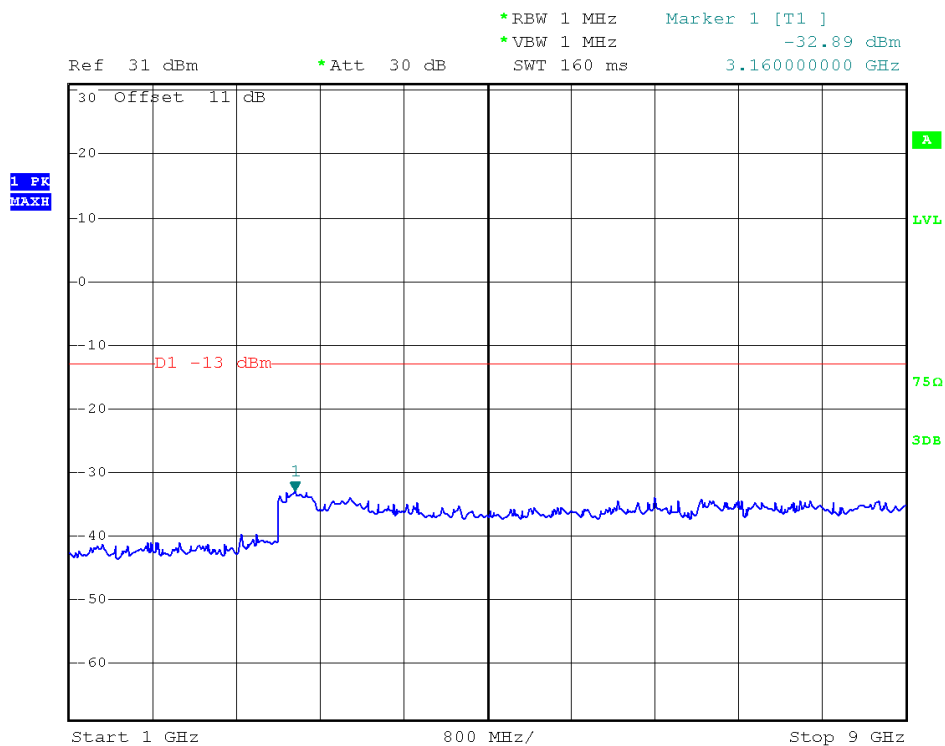
QPSK, (RB Size 1, RB Offset 0    1GHz to 9GHz)



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



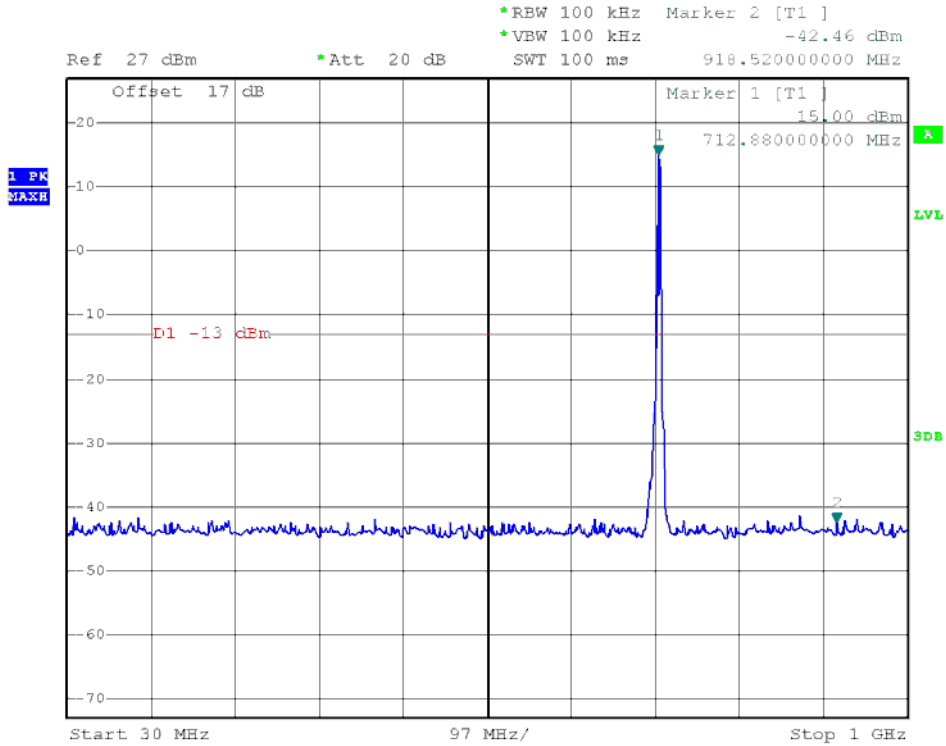
QPSK, (RB Size 1, RB Offset 0 30MHz to 1GHz)



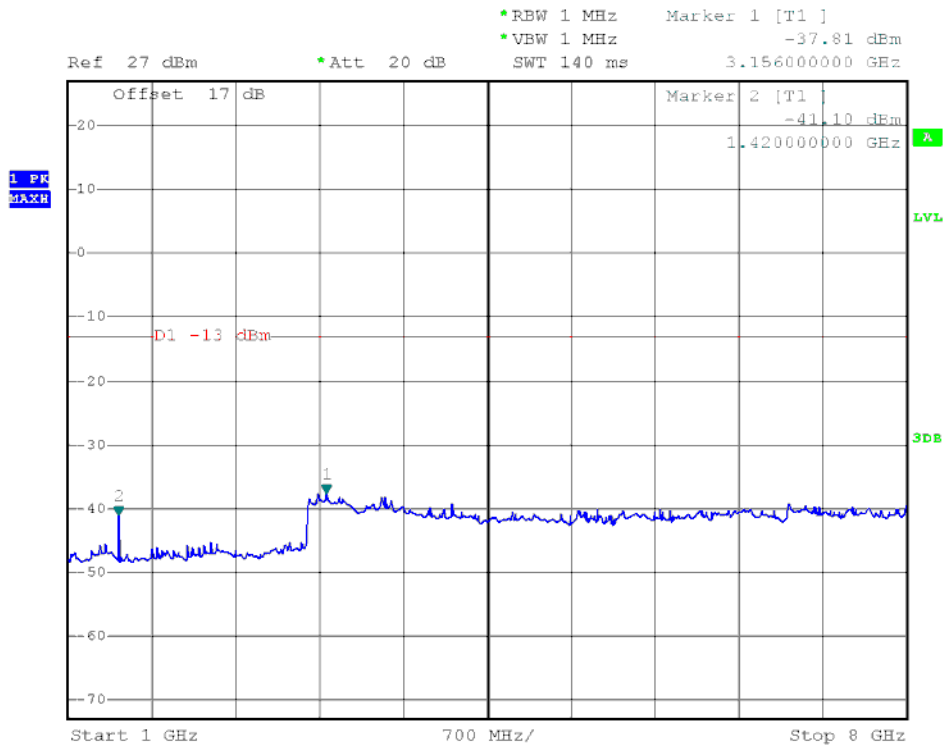
QPSK, (RB Size 1, RB Offset 0 1GHz to 9GHz)



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



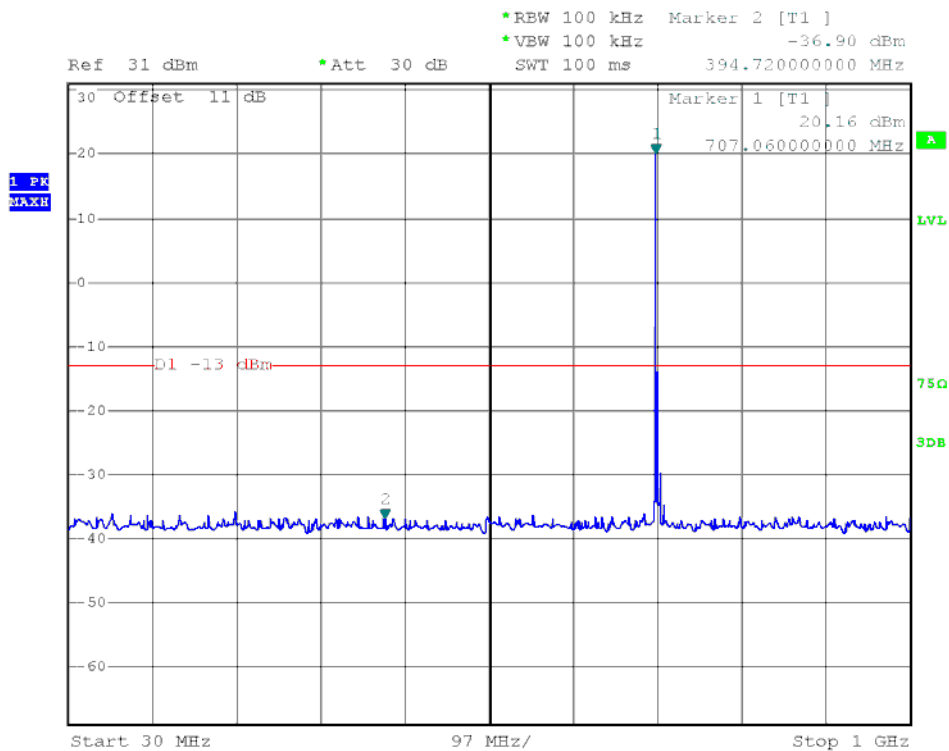
QPSK, (RB Size 1, RB Offset 0    30MHz to 1GHz)



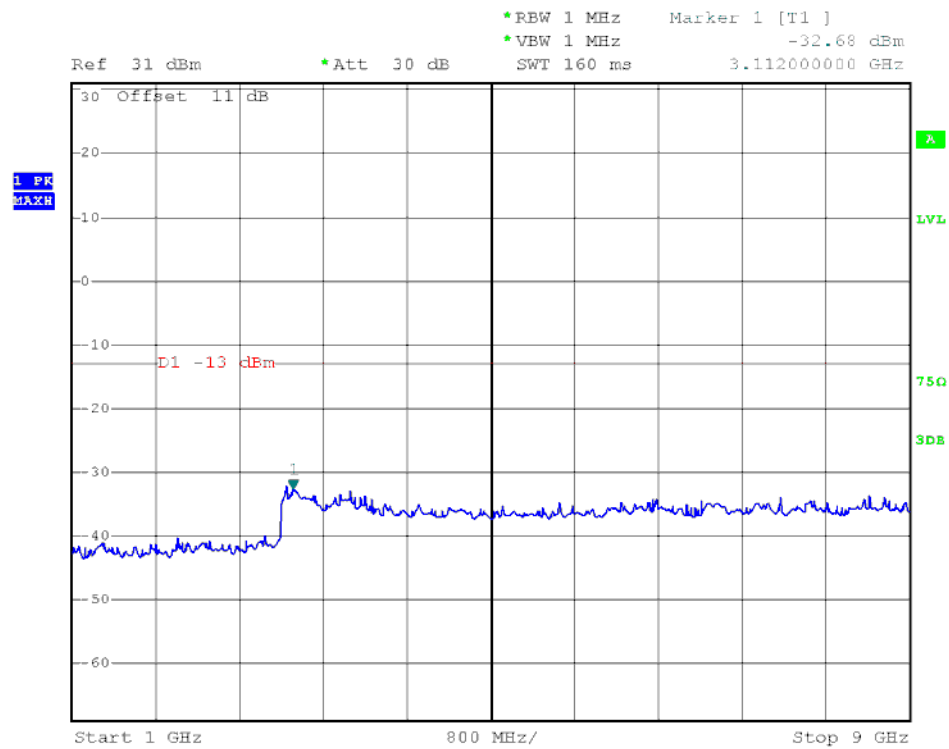
QPSK, (RB Size 1, RB Offset 0    1GHz to 8GHz)



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



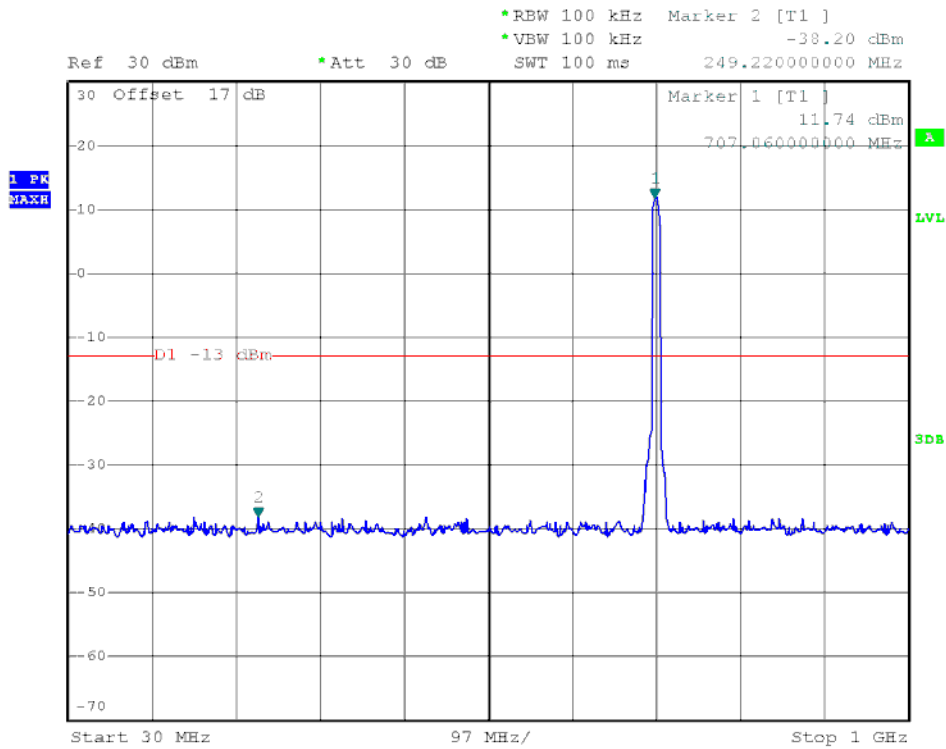
QPSK, (RB Size 1, RB Offset 0    30MHz to 1GHz)



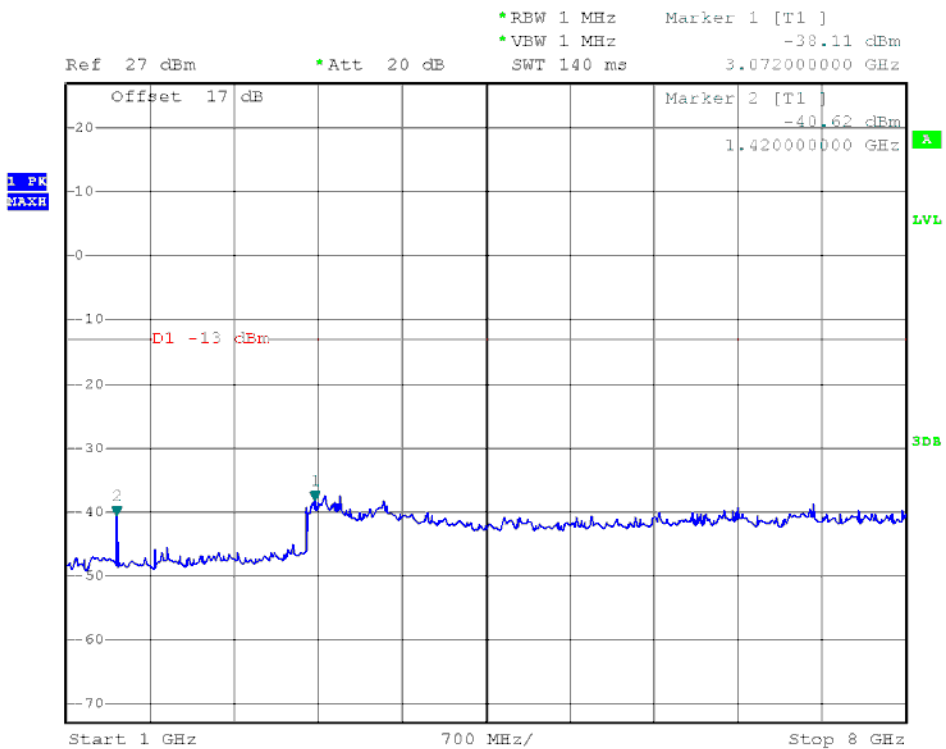
QPSK, (RB Size 1, RB Offset 0    1GHz to 8GHz)



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



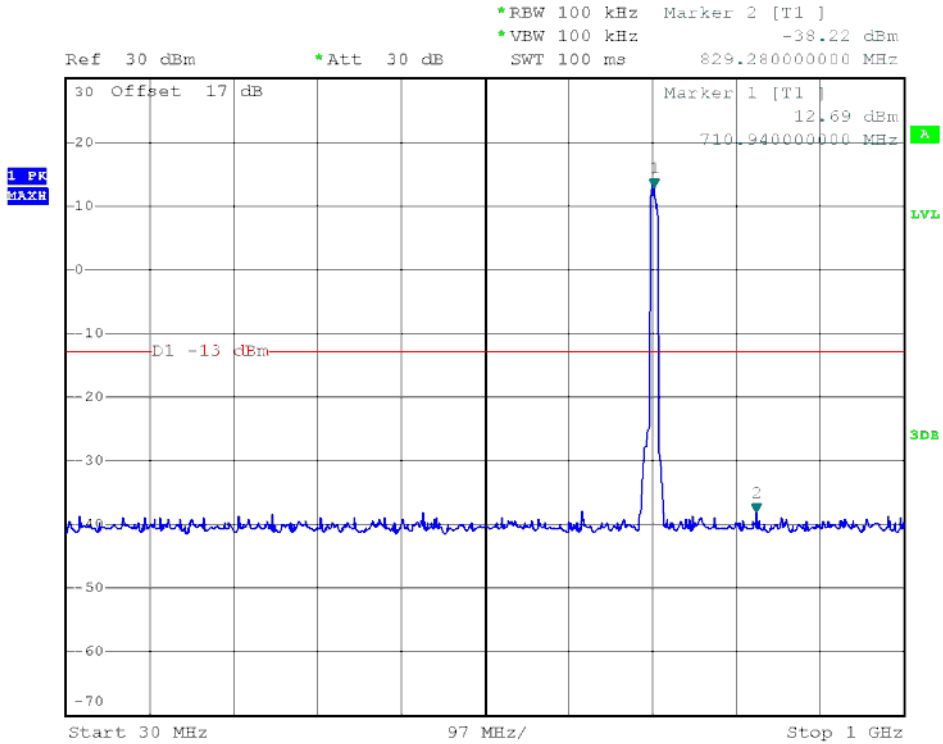
QPSK, (RB Size 1, RB Offset 0    30MHz to 1GHz)



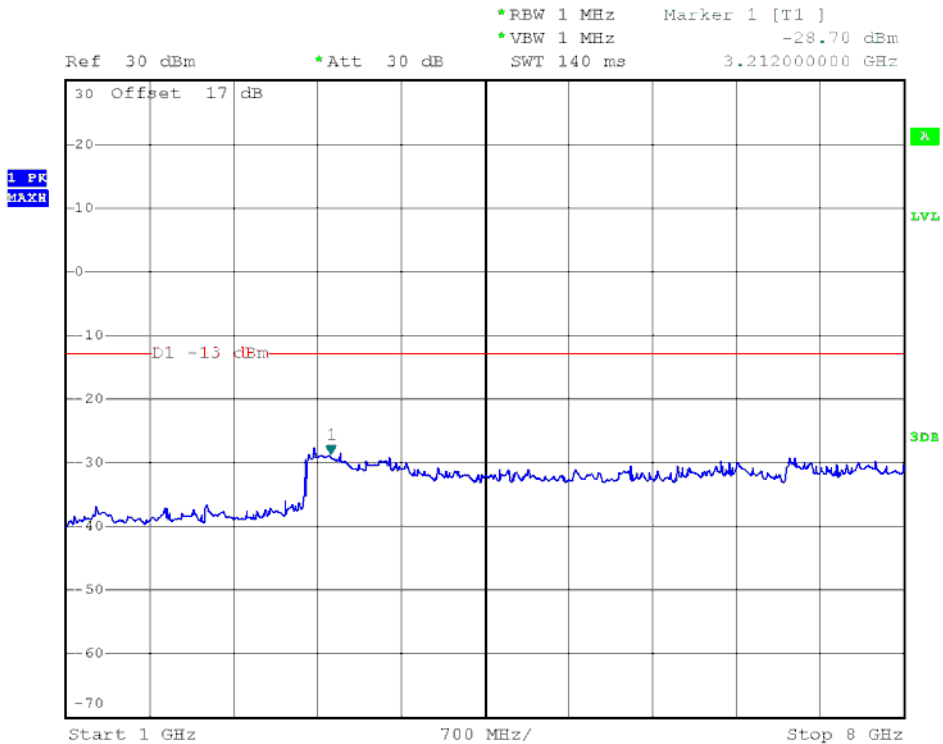
QPSK, (RB Size 1, RB Offset 0    1GHz to 8GHz)



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(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(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

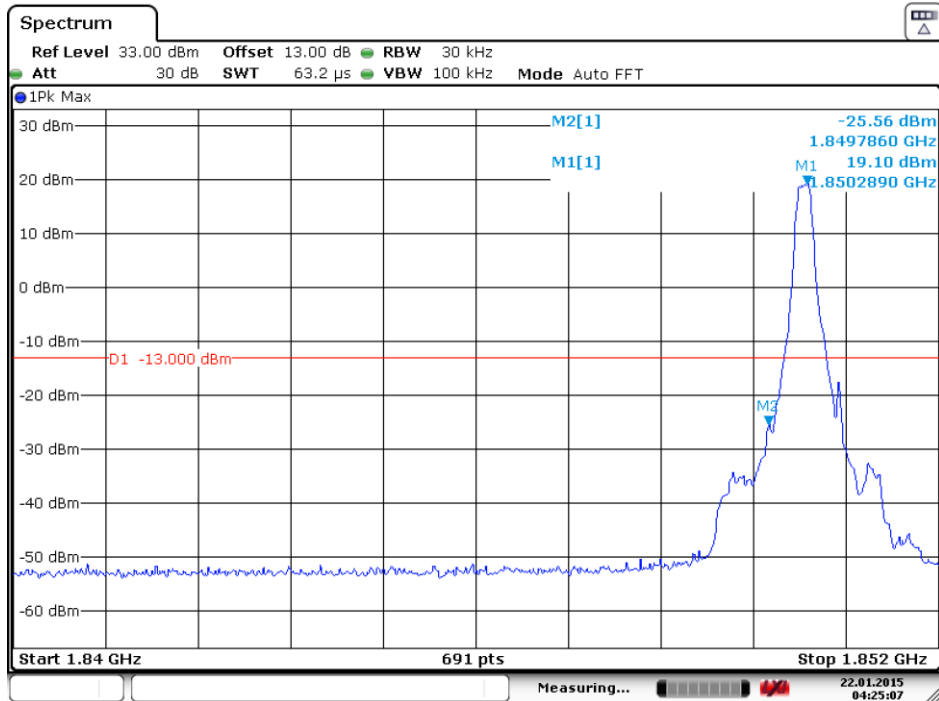
1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW  $\geq 1\%$  EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with RMS detector.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

### 2.6.4 Test Result of Conducted Band Edge

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

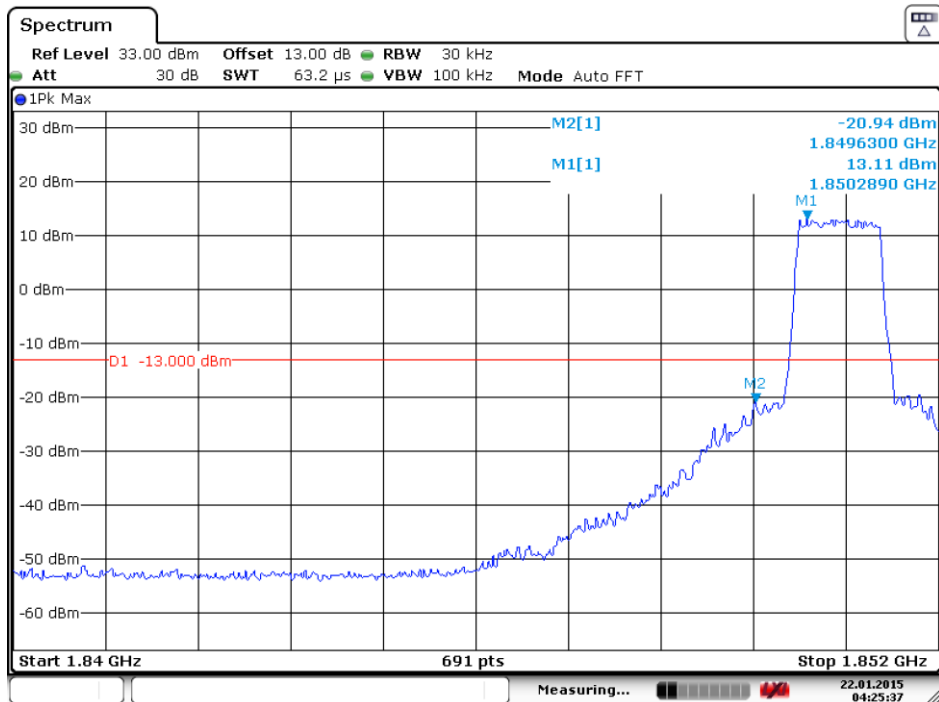


Band	LTE Band 2	Modulation	QPSK
Bandwidth	1.4MHz		



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

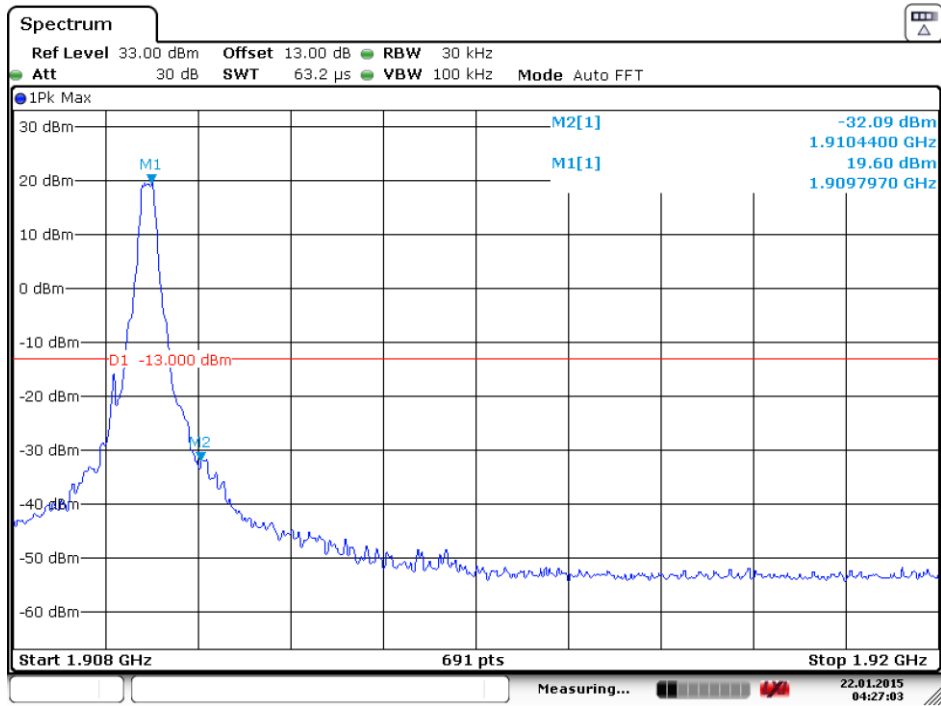
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



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

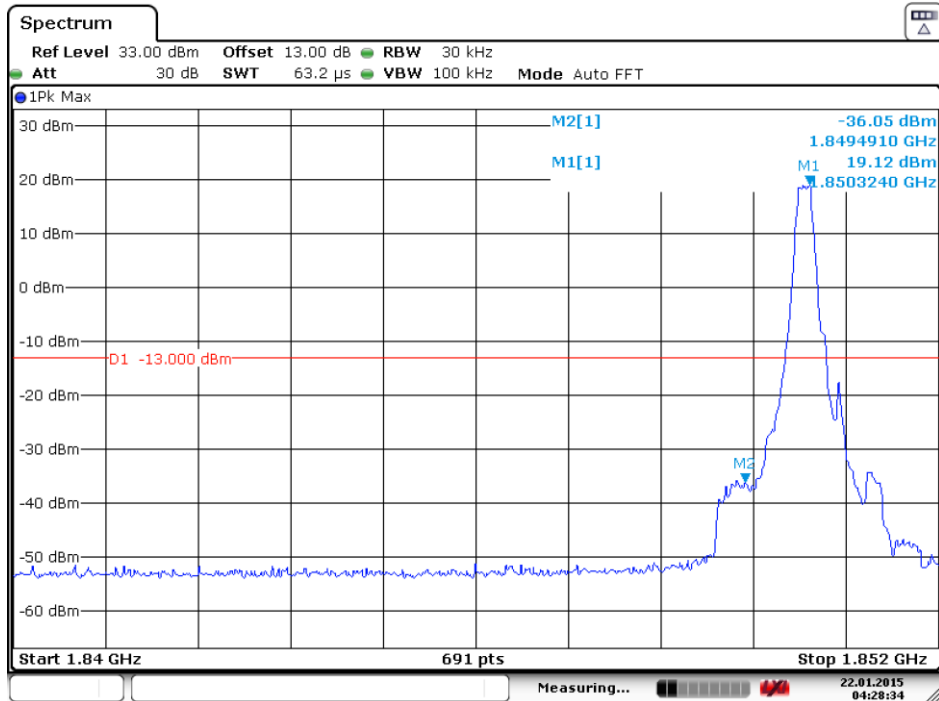


Date: 22.JAN.2015 04:27:28

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

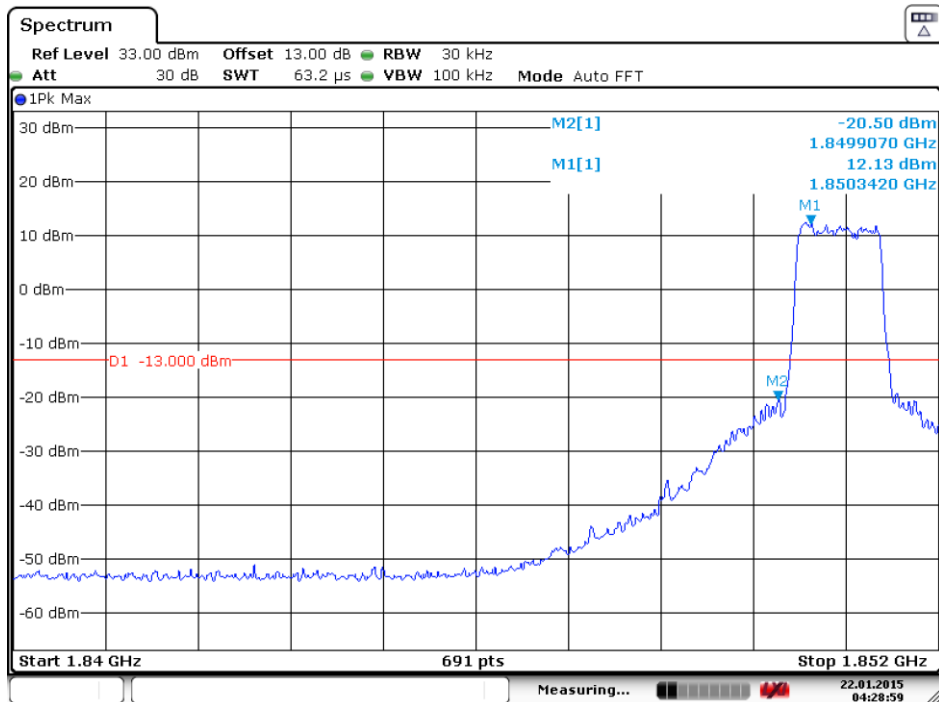


Band	LTE Band 2	Modulation	16QAM
Bandwidth	1.4MHz		



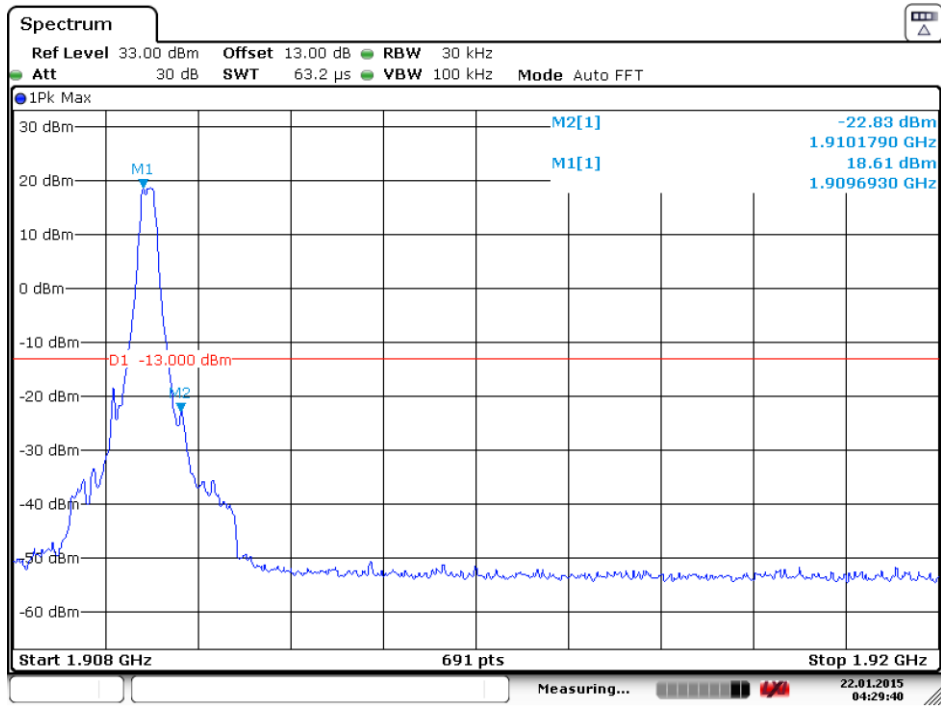
Date: 22.JAN.2015 04:28:34

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



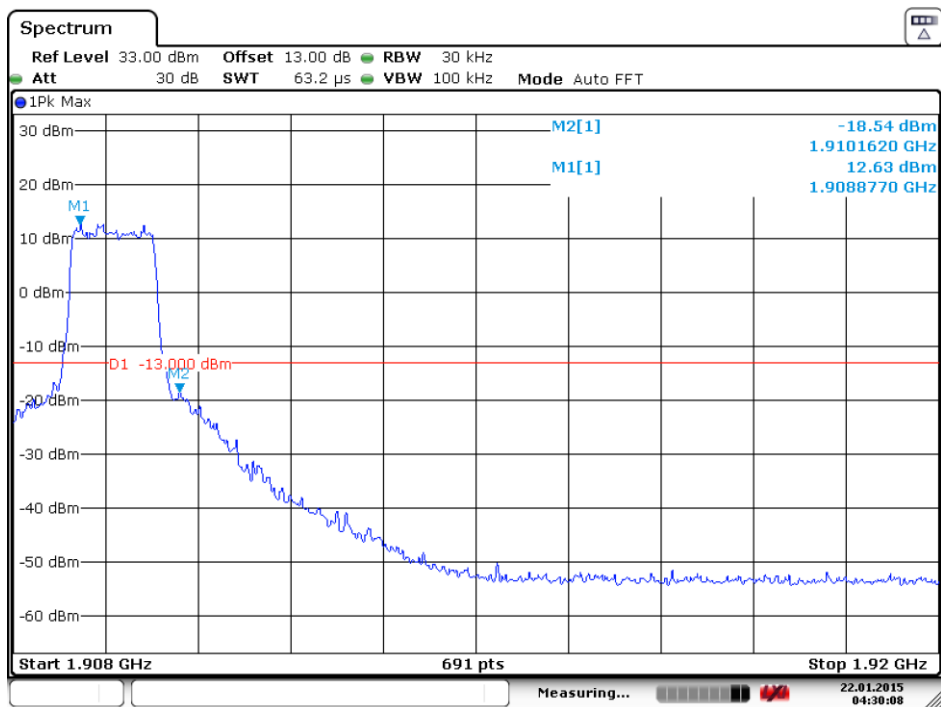
Date: 22.JAN.2015 04:28:58

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

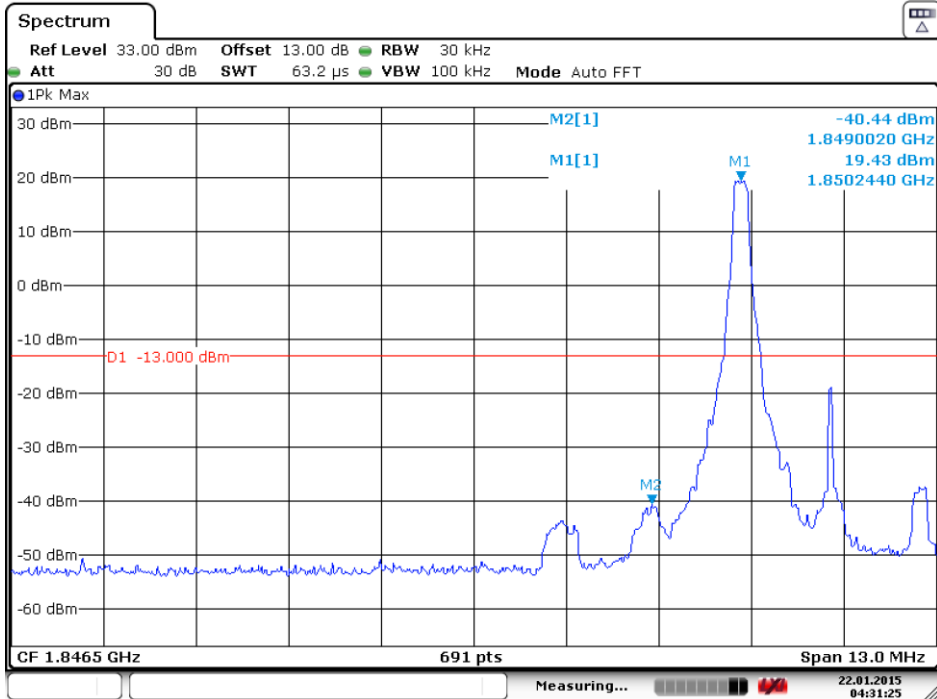


Date: 22.JAN.2015 04:30:08

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

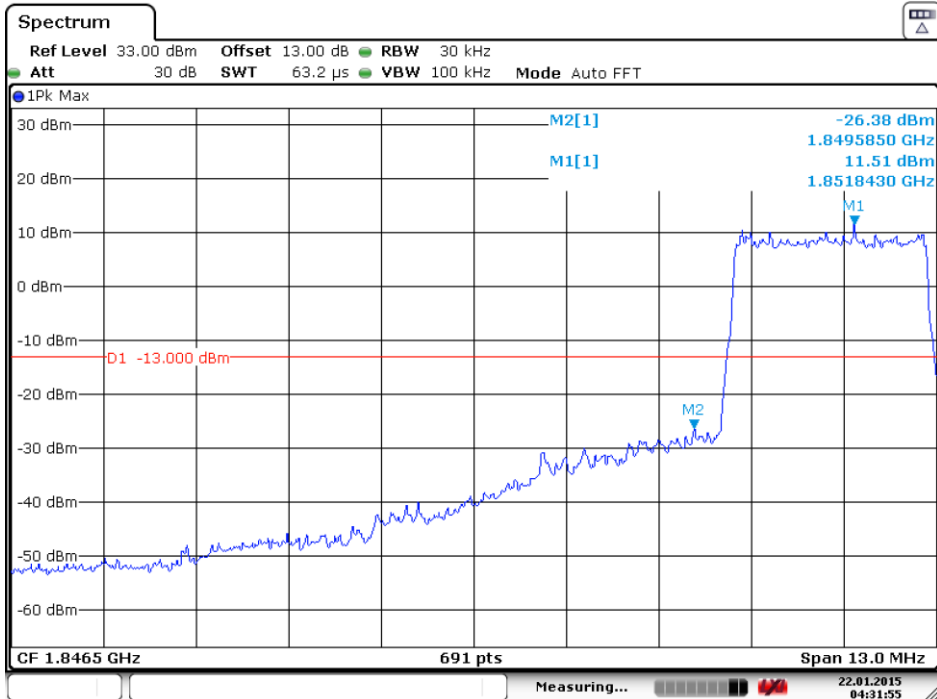


Band	LTE Band 2	Modulation	QPSK
Bandwidth	3MHz		



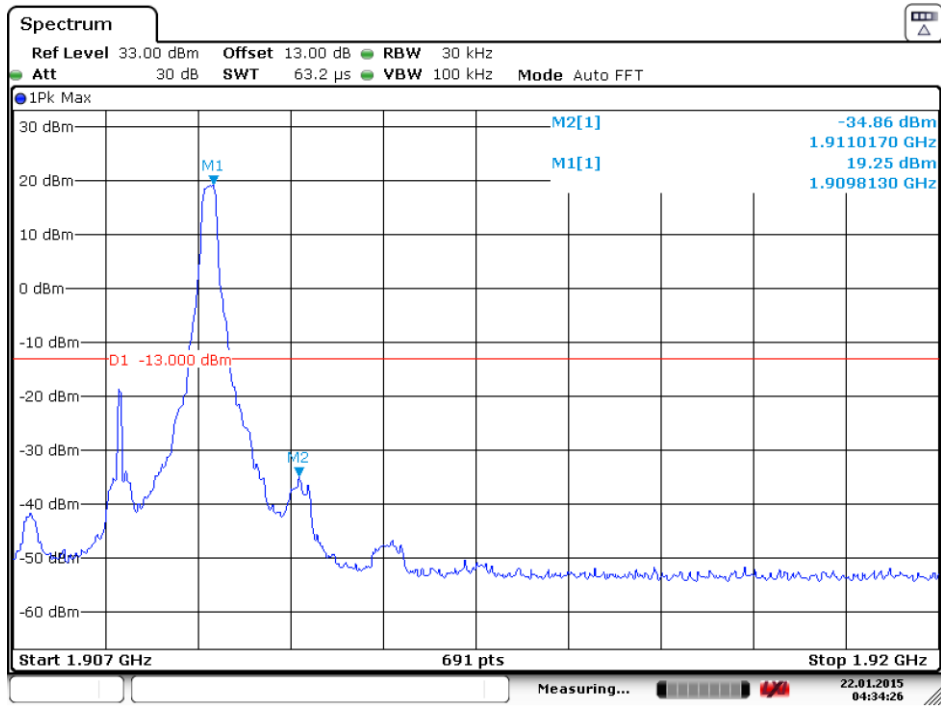
Date: 22.JAN.2015 04:31:24

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



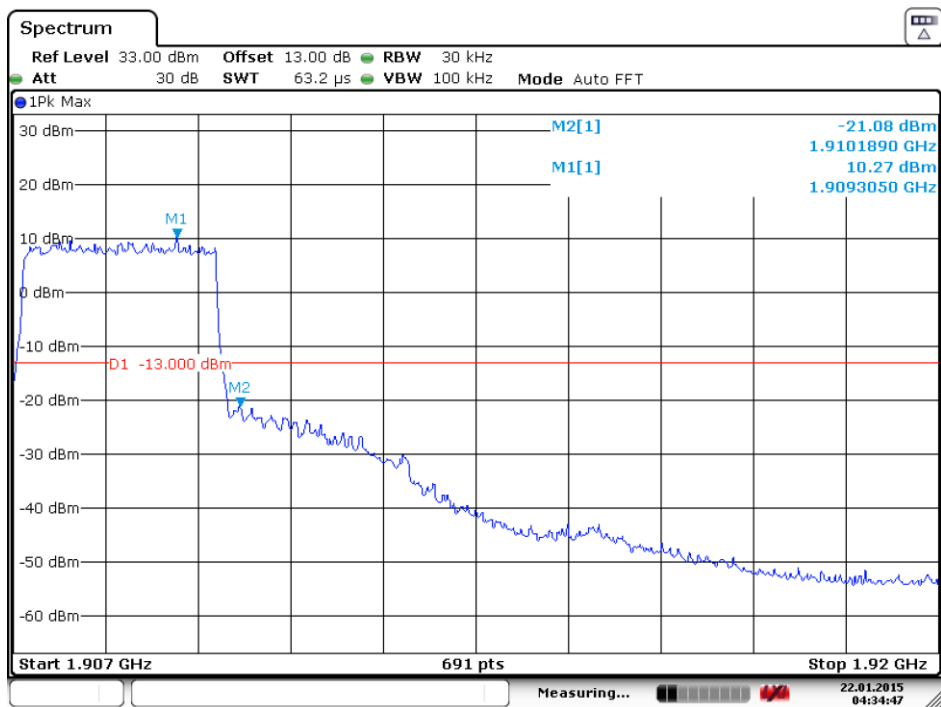
Date: 22.JAN.2015 04:31:55

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

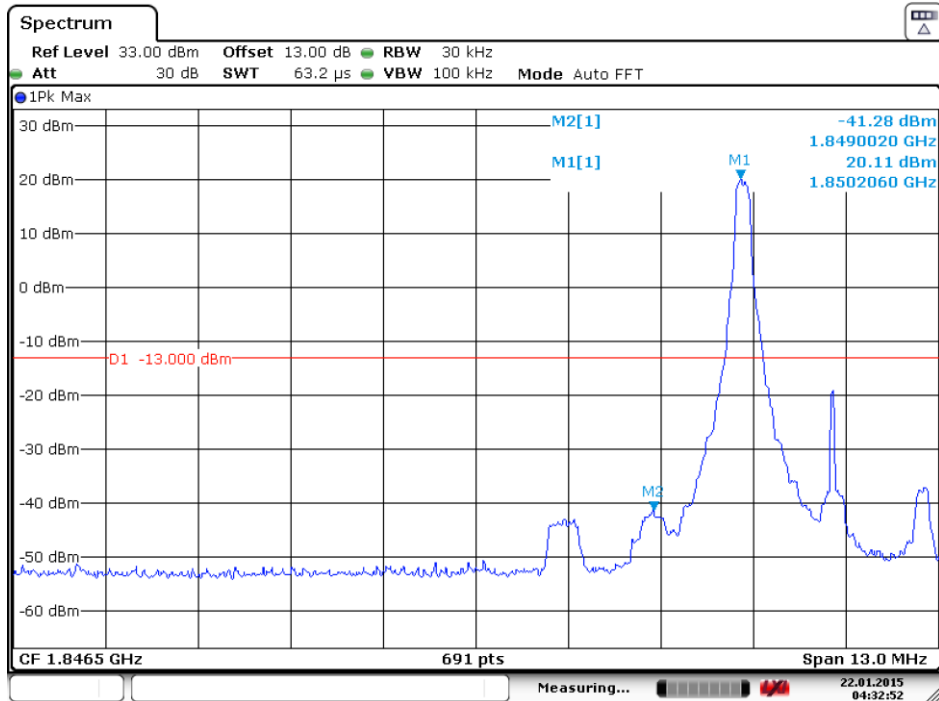


Date: 22.JAN.2015 04:34:48

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

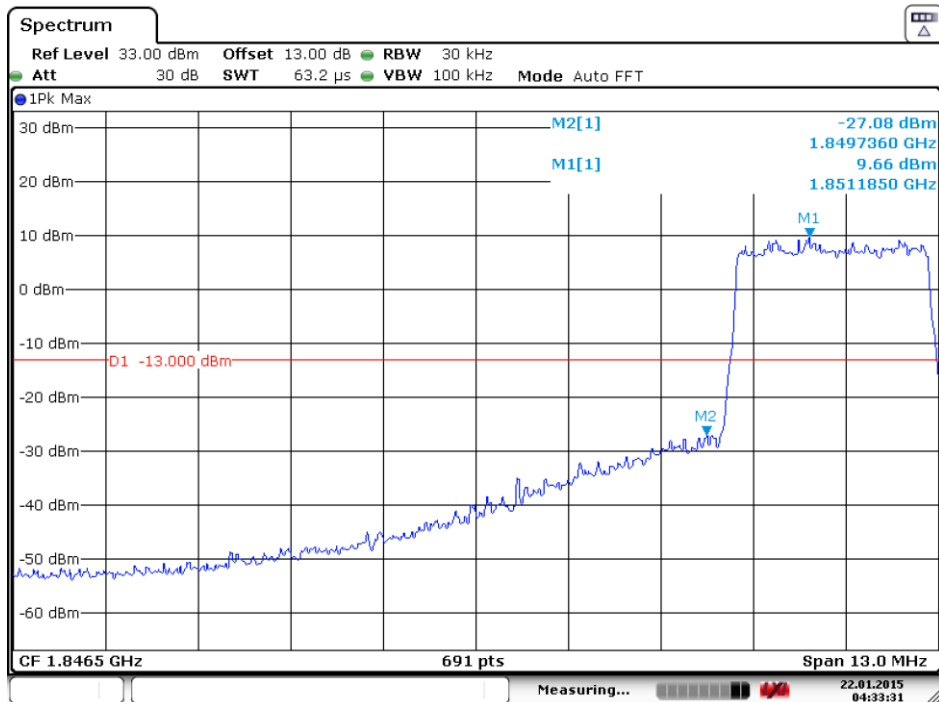


Band	LTE Band 2	Modulation	16QAM
Bandwidth	3MHz		



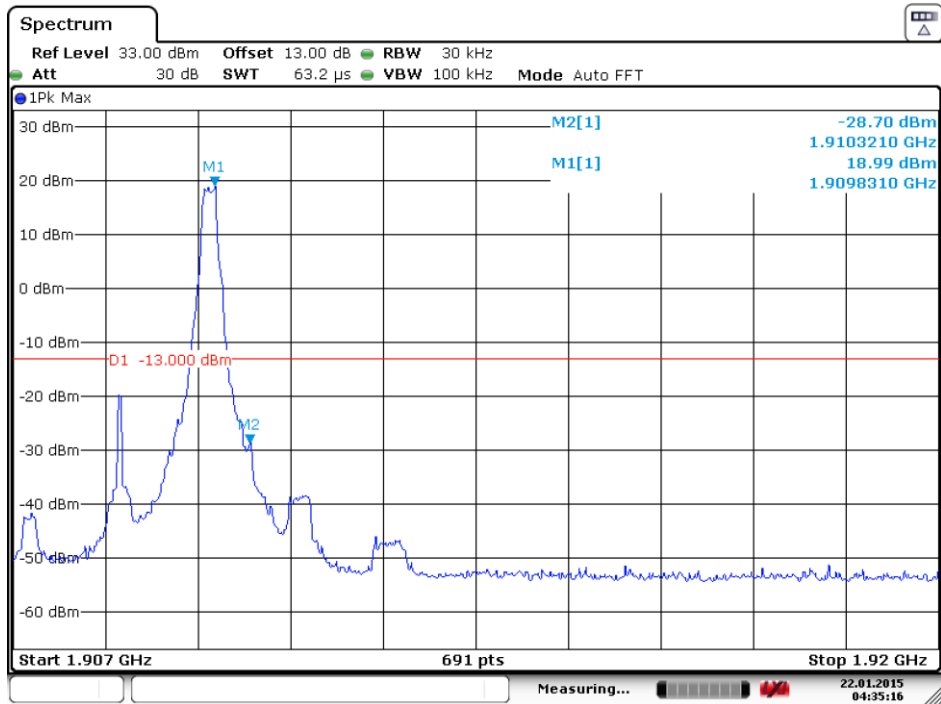
Date: 22.JAN.2015 04:32:52

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



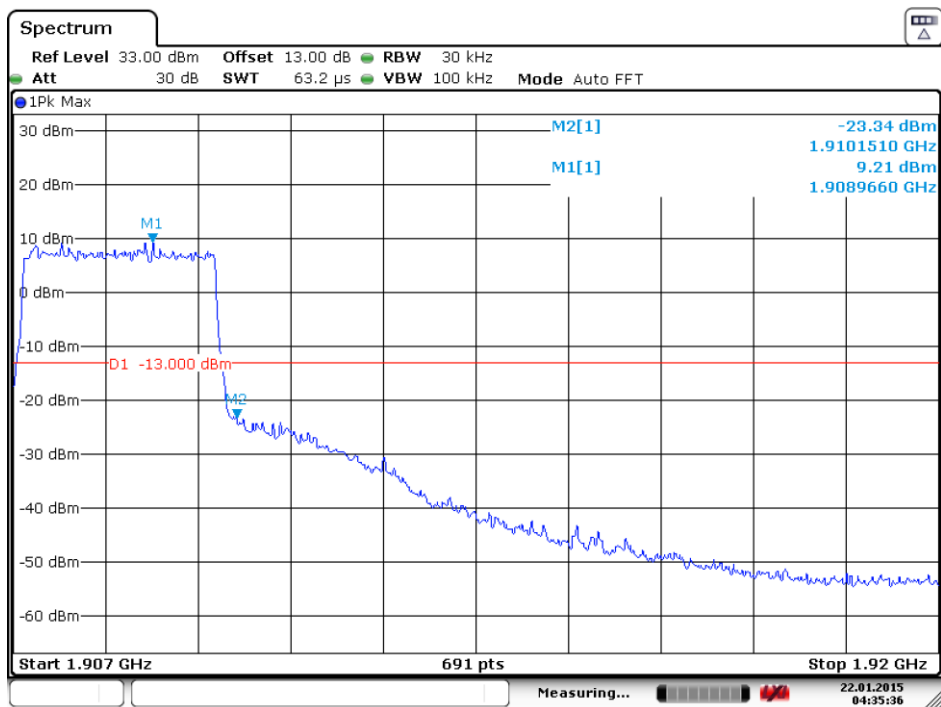
Date: 22.JAN.2015 04:33:32

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

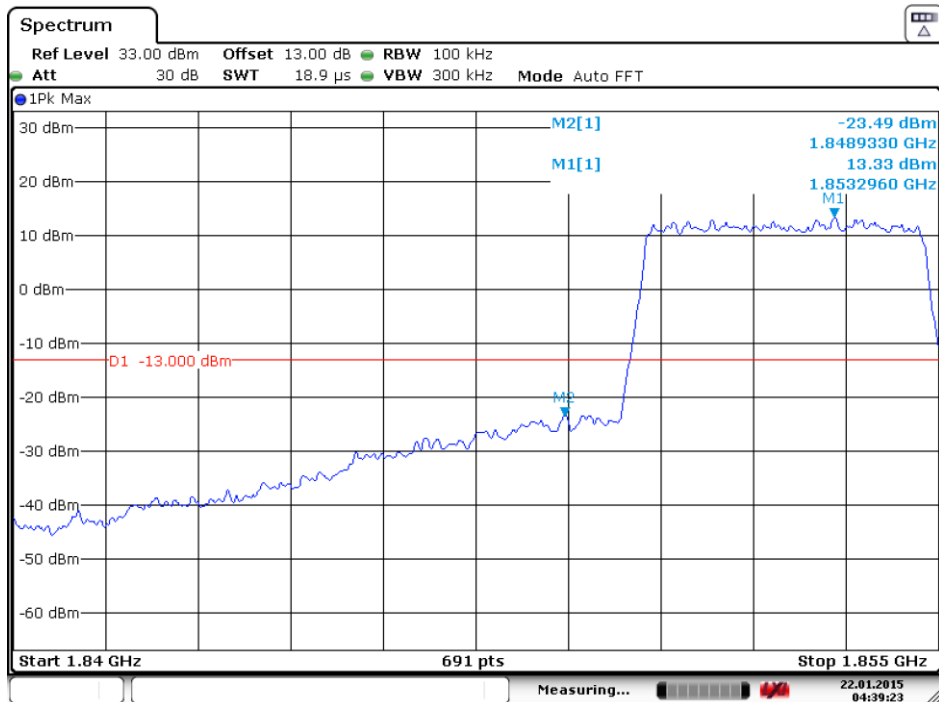


Band	LTE Band 2	Modulation	QPSK
Bandwidth	5MHz		



Date: 22.JAN.2015 04:38:34

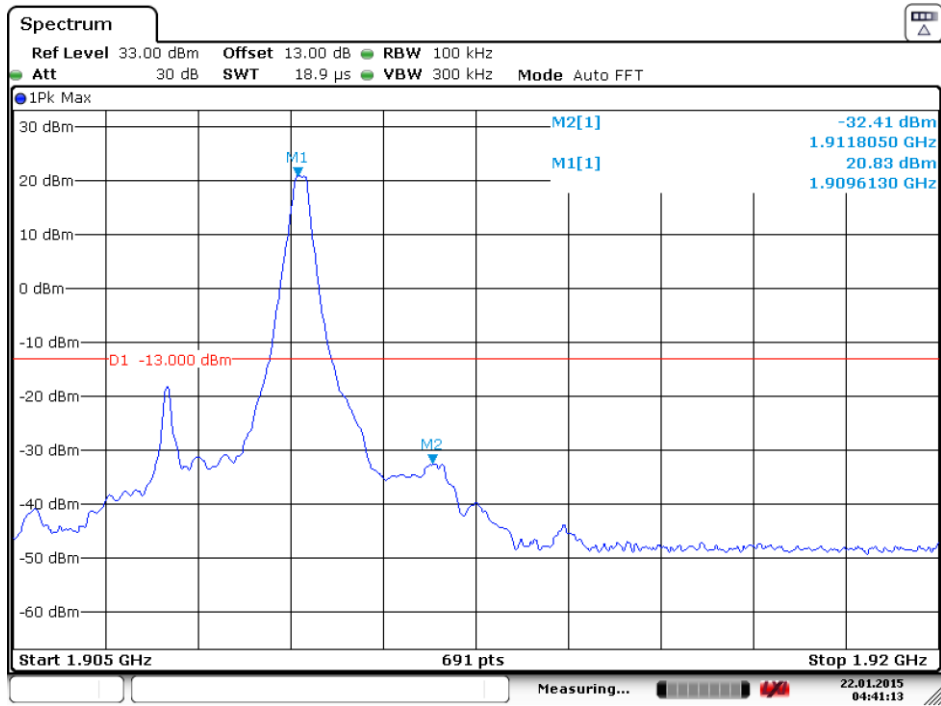
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 22.JAN.2015 04:39:23

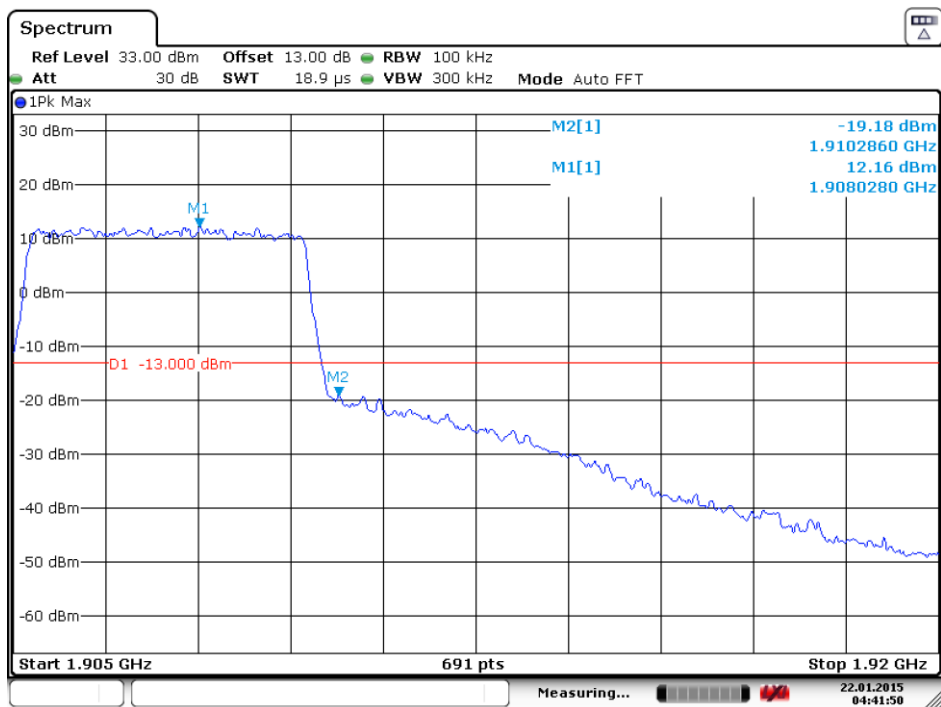
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0





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

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

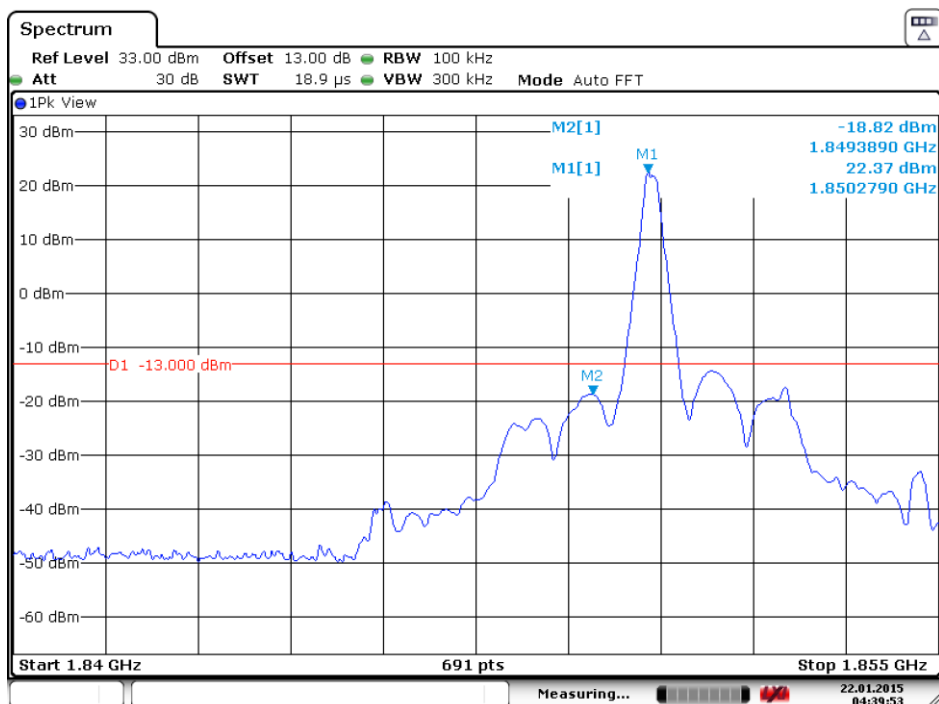


Date: 22.JAN.2015 04:41:50

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

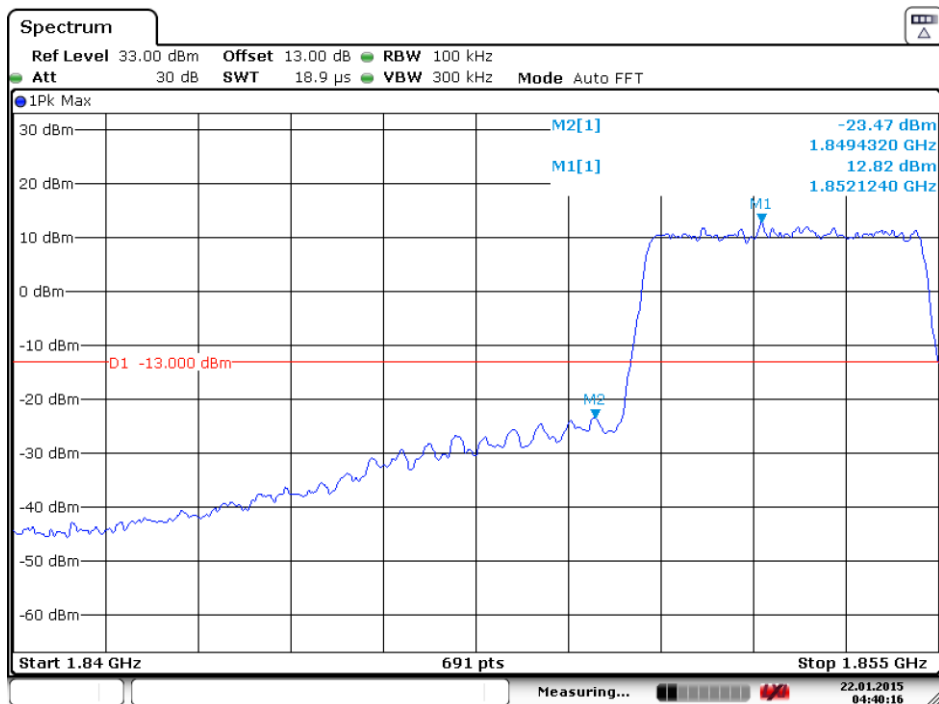


Band	LTE Band 2	Modulation	16QAM
Bandwidth	5MHz		



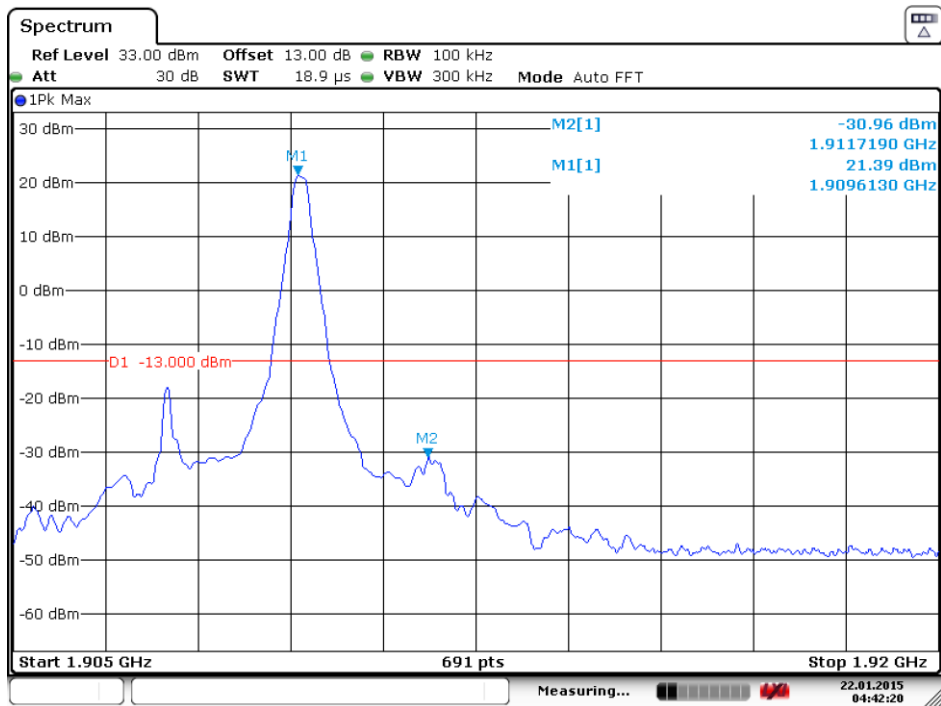
Date: 22.JAN.2015 04:39:52

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



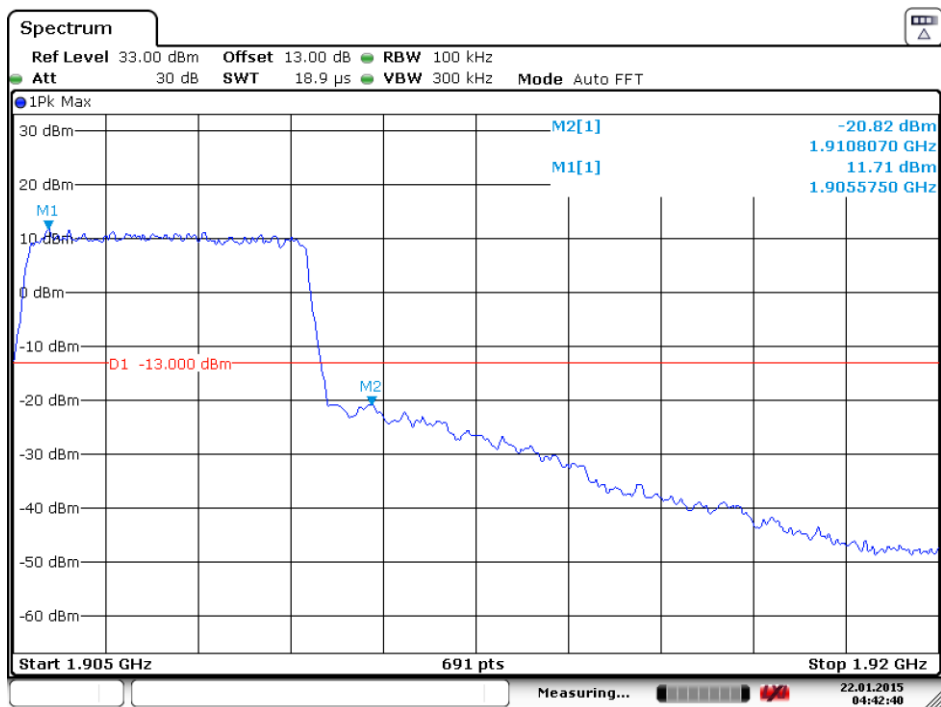
Date: 22.JAN.2015 04:40:16

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

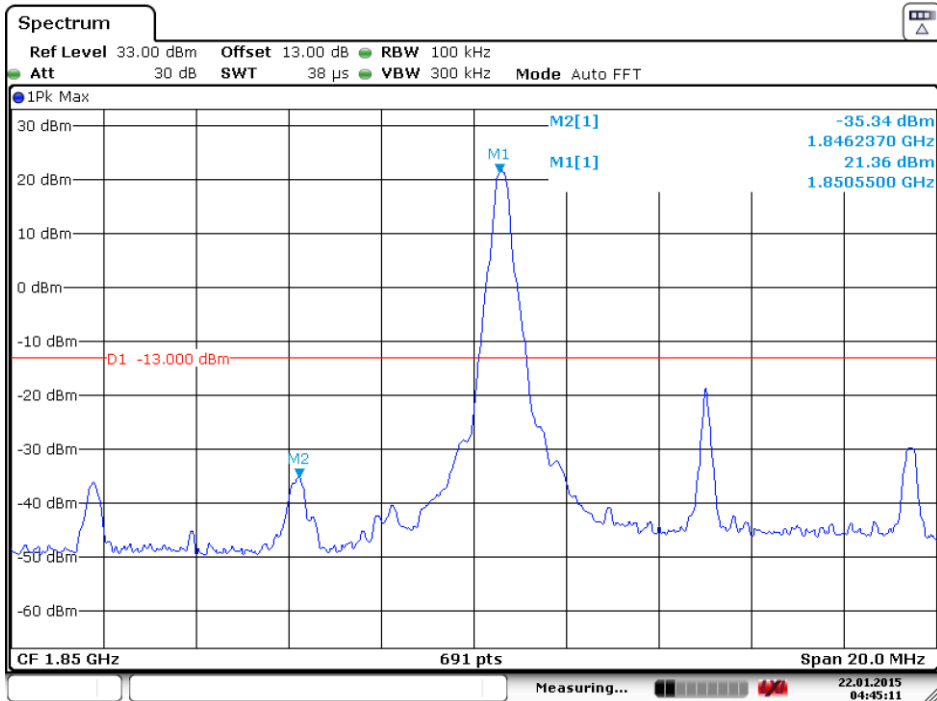


Date: 22.JAN.2015 04:42:40

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

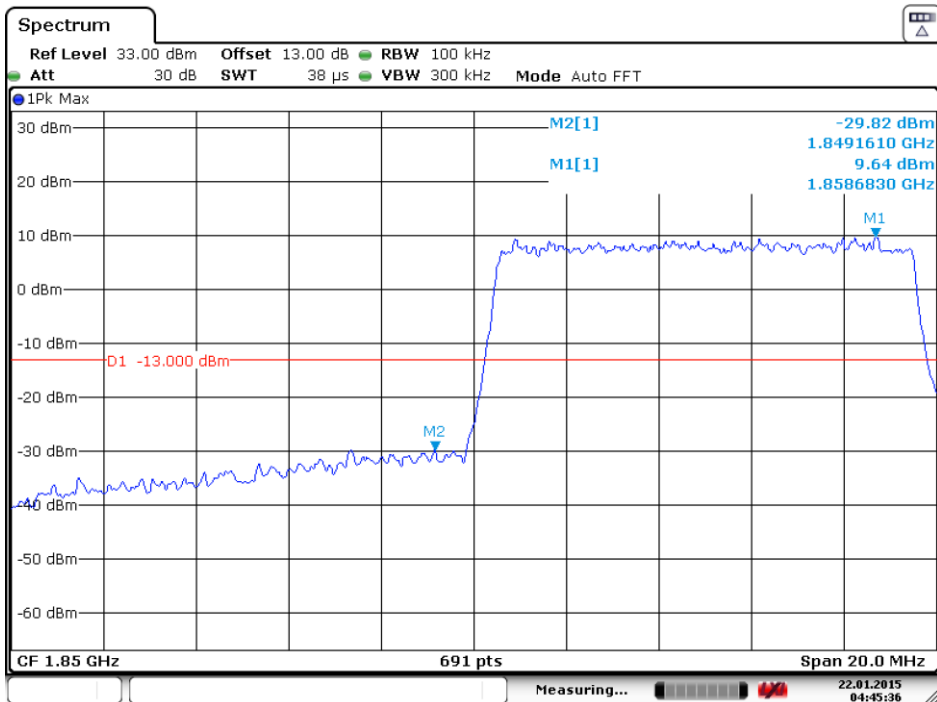


Band	LTE Band 2	Modulation	QPSK
Bandwidth	10MHz		



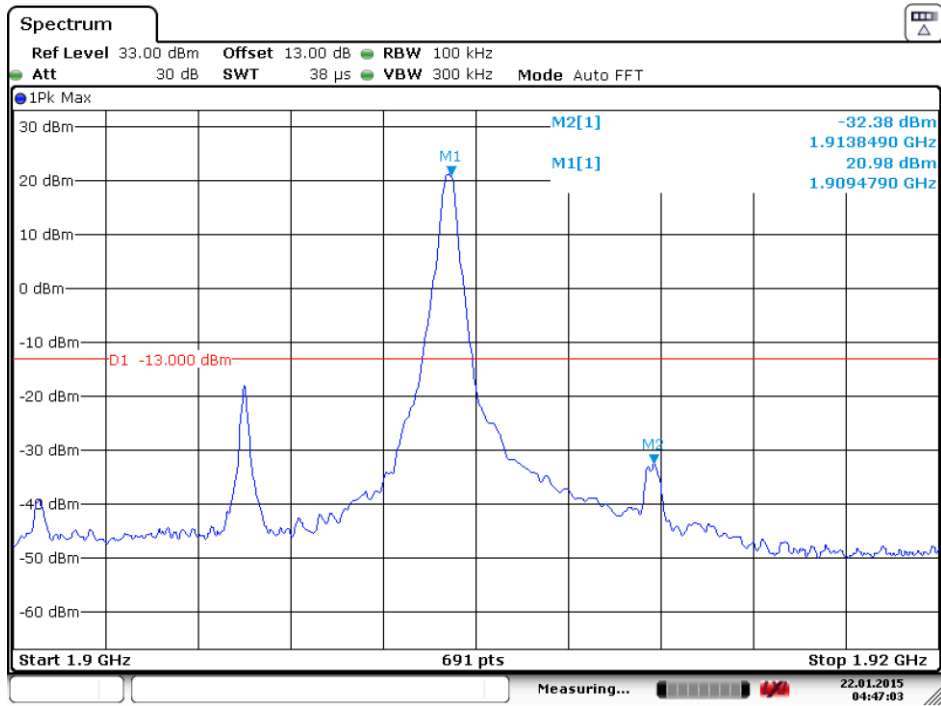
Date: 22.JAN.2015 04:45:12

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



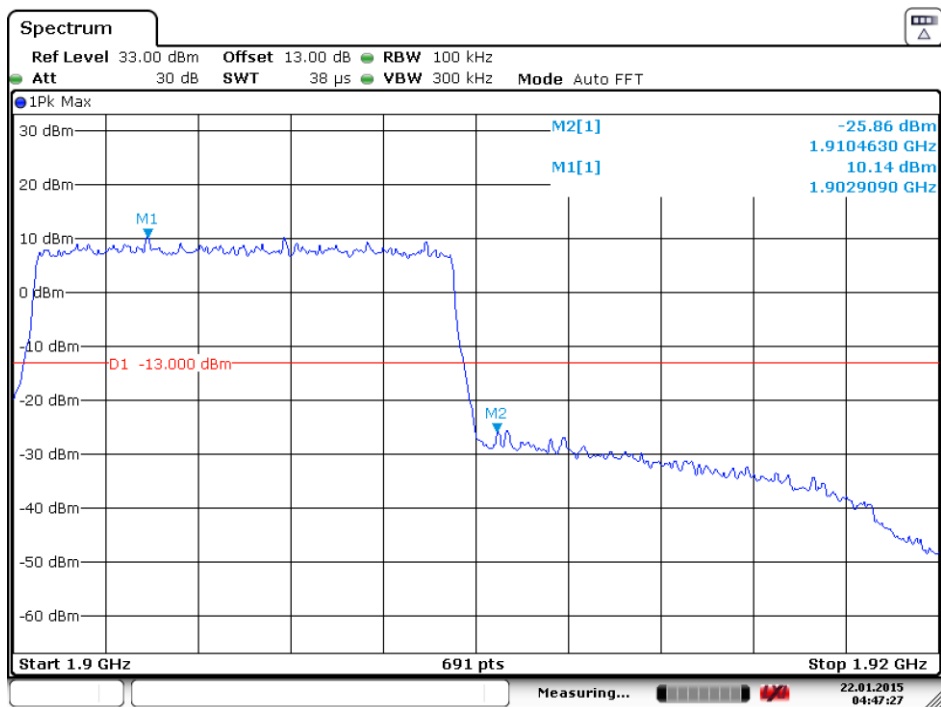
Date: 22.JAN.2015 04:45:37

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

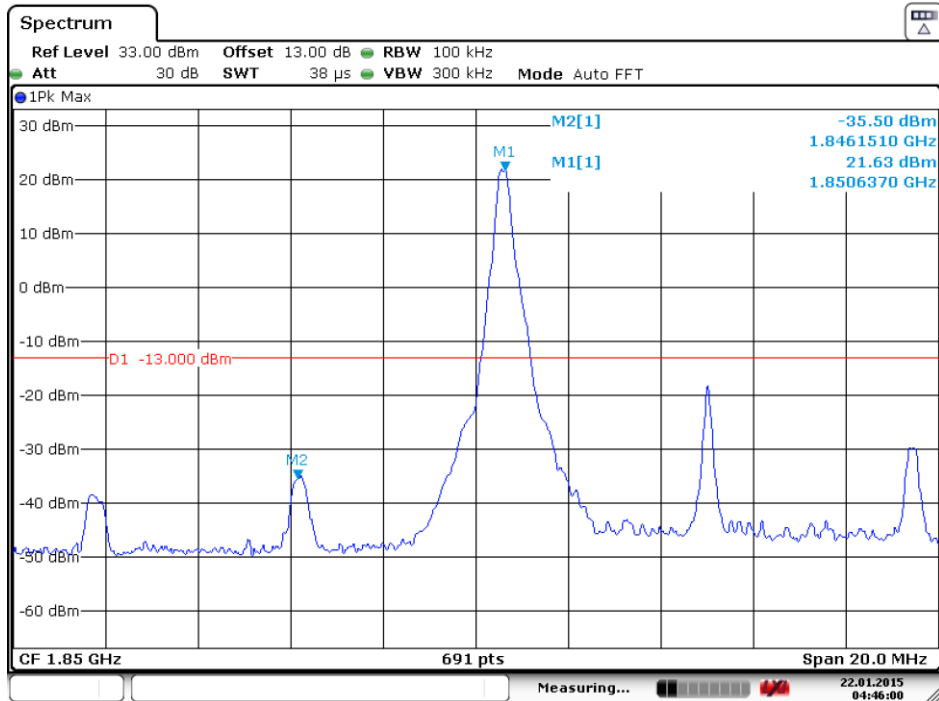


Date: 22.JAN.2015 04:47:27

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

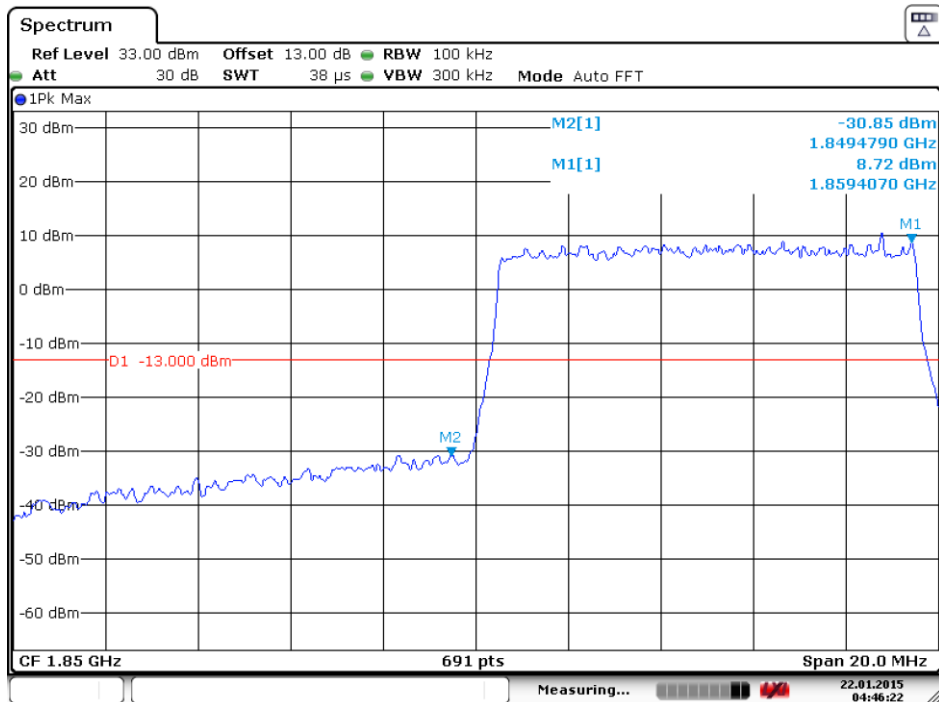


Band	LTE Band 2	Modulation	16QAM
Bandwidth	10MHz		



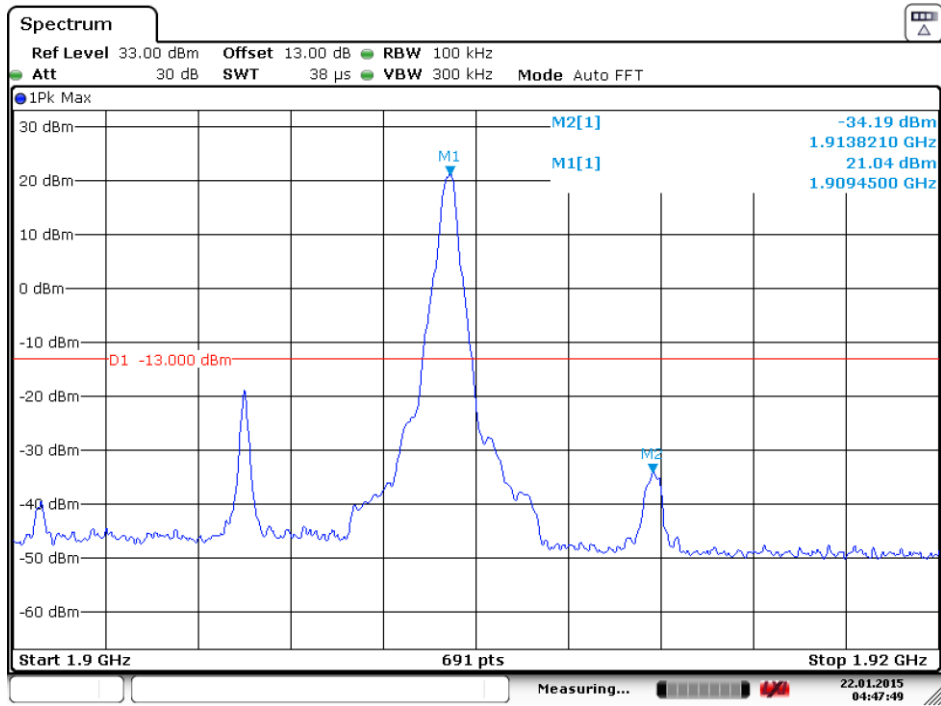
Date: 22.JAN.2015 04:46:00

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



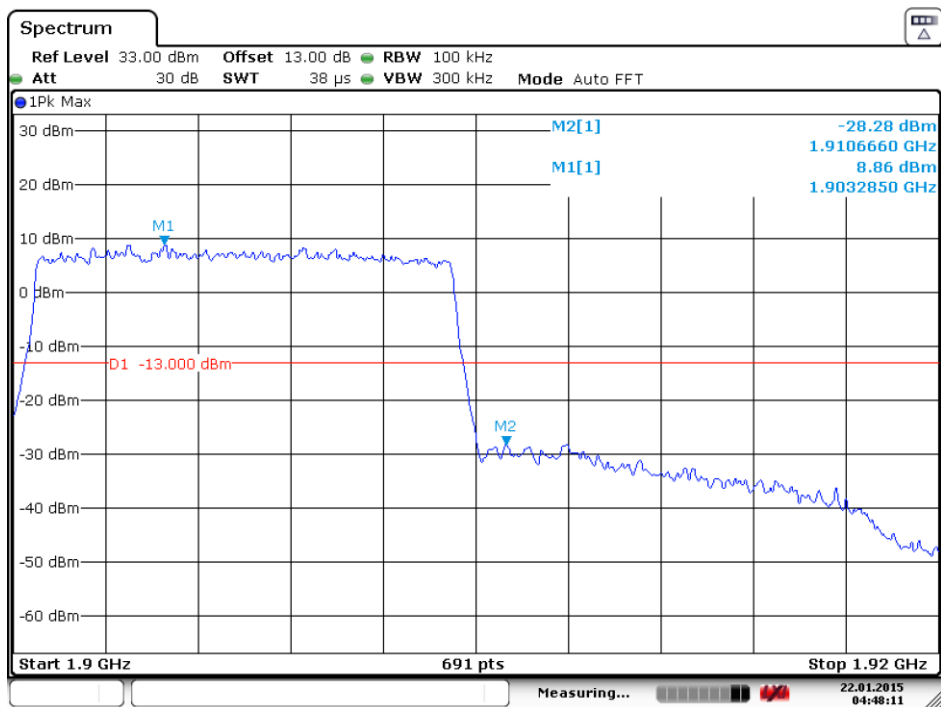
Date: 22.JAN.2015 04:46:22

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

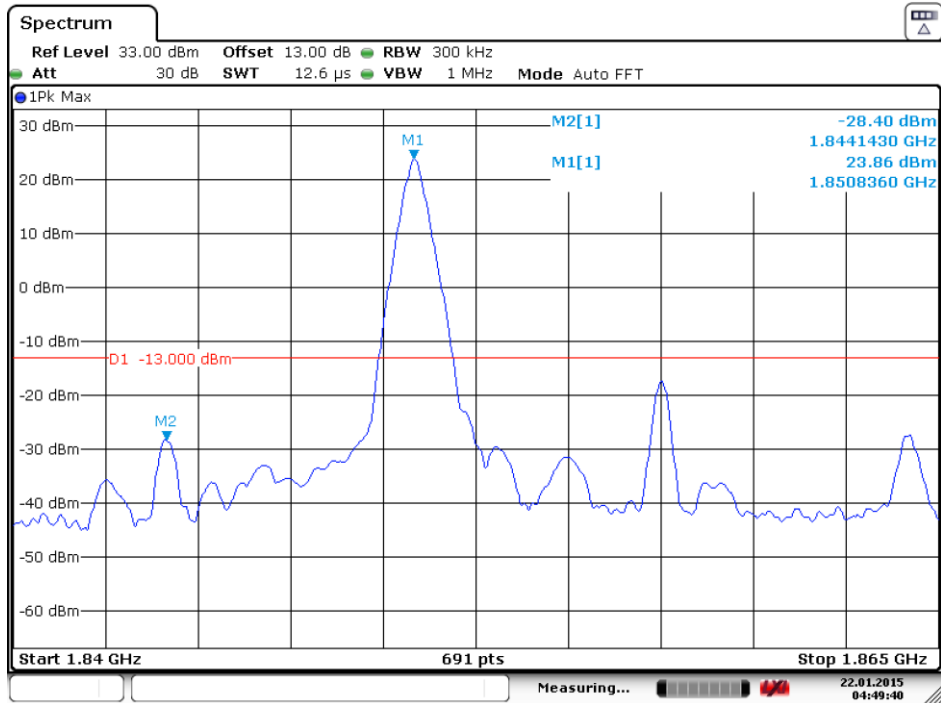


Date: 22.JAN.2015 04:48:11

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

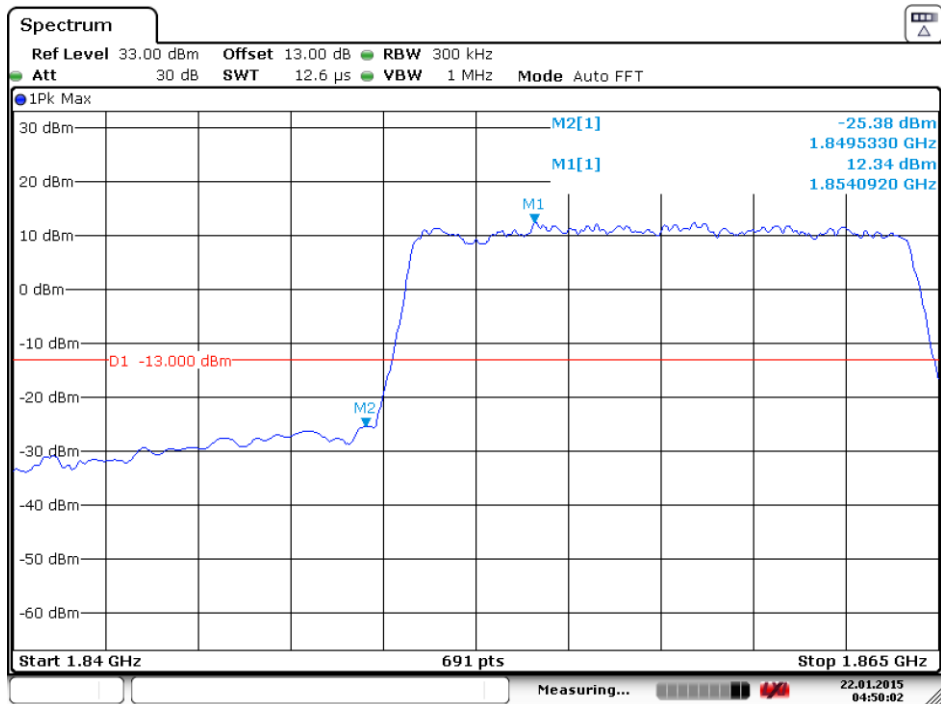


Band	LTE Band 2	Modulation	QPSK
Bandwidth	15MHz		



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

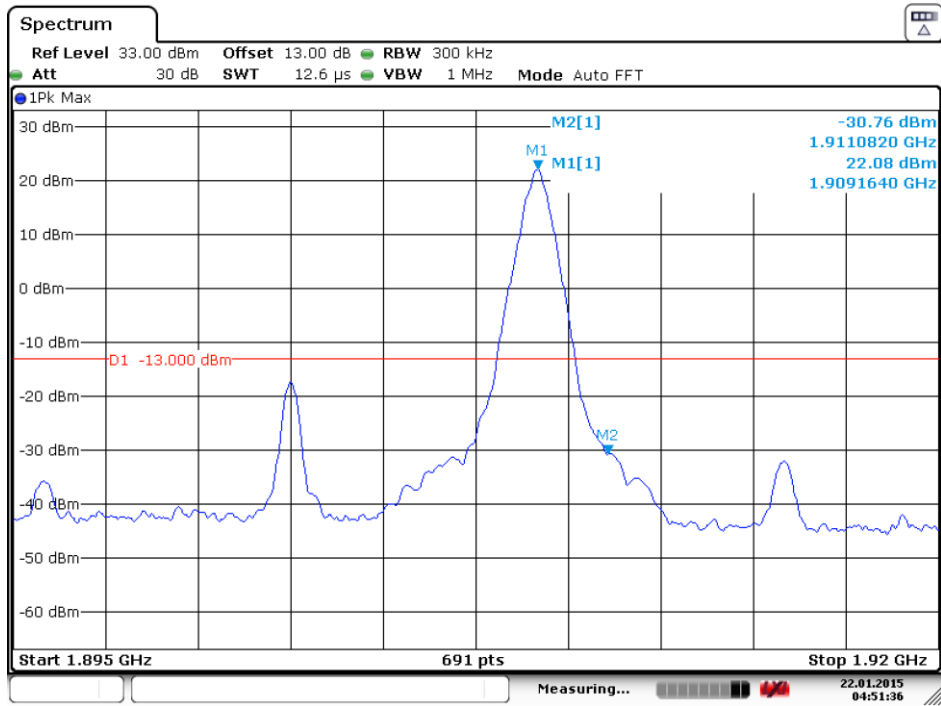
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



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

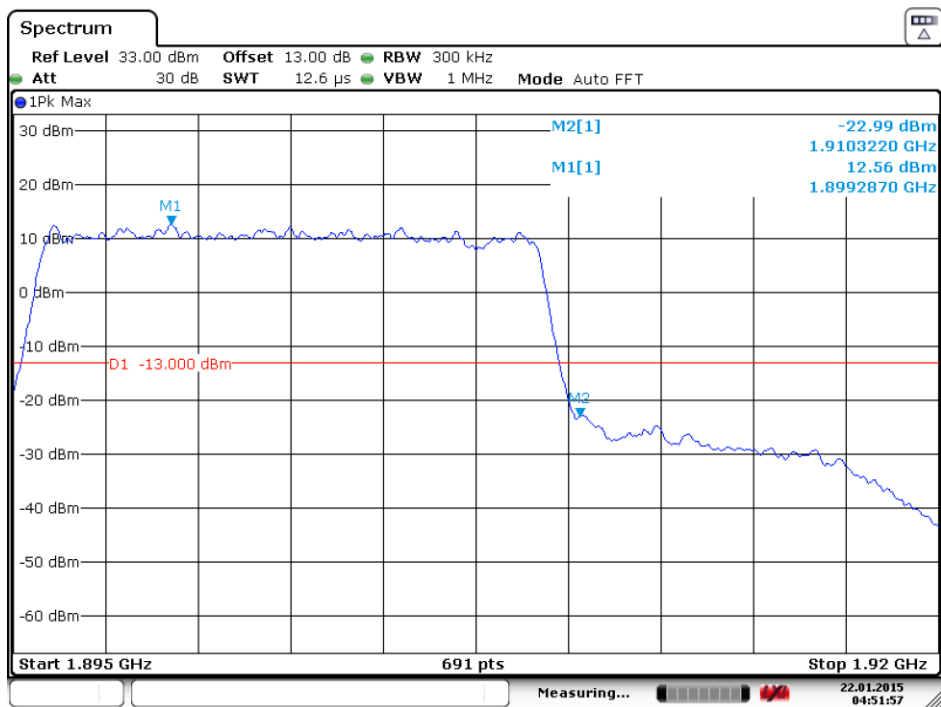
Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0





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

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

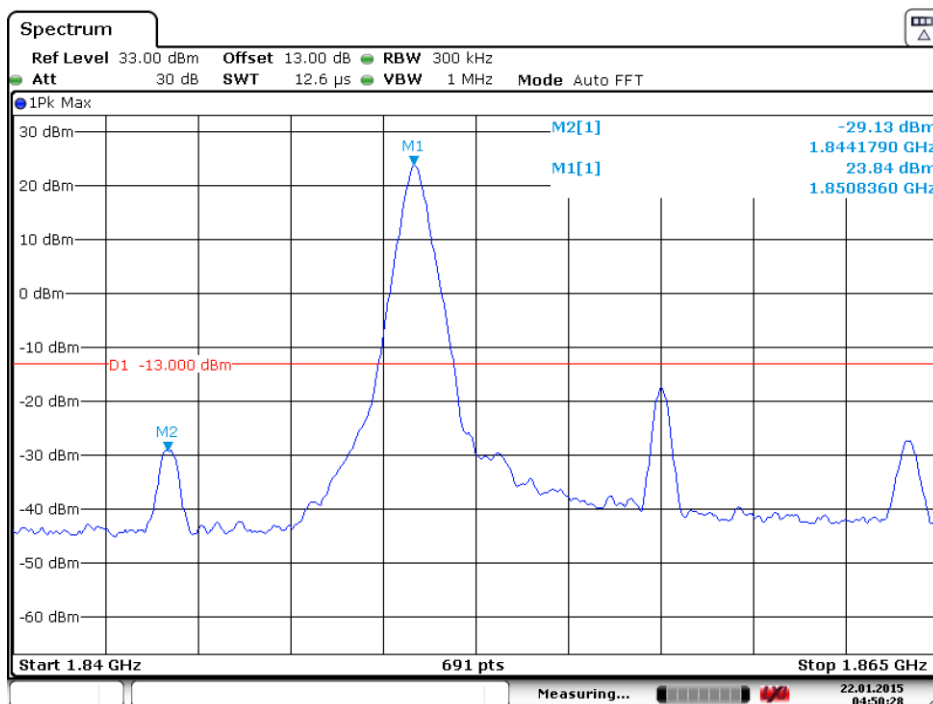


Date: 22.JAN.2015 04:51:57

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

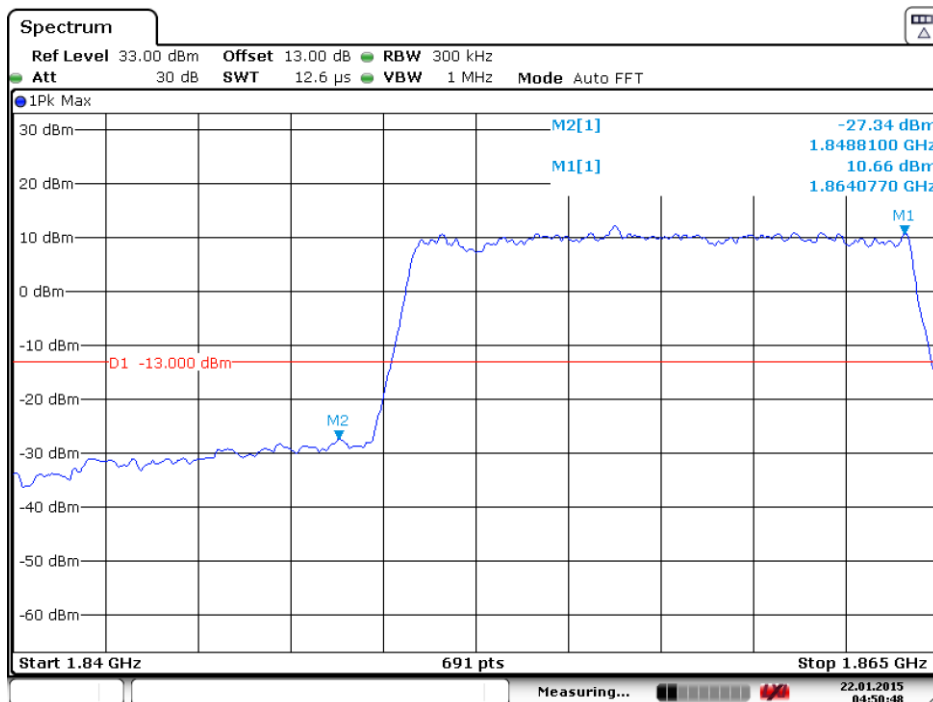


Band	LTE Band 2	Modulation	16QAM
Bandwidth	15MHz		



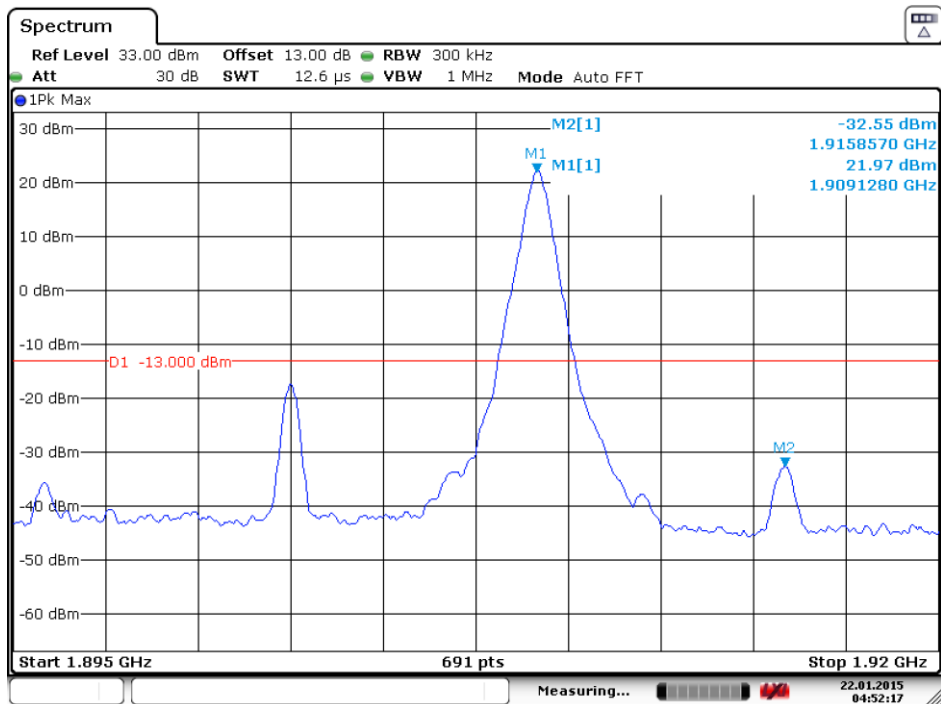
Date: 22.JAN.2015 04:50:28

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



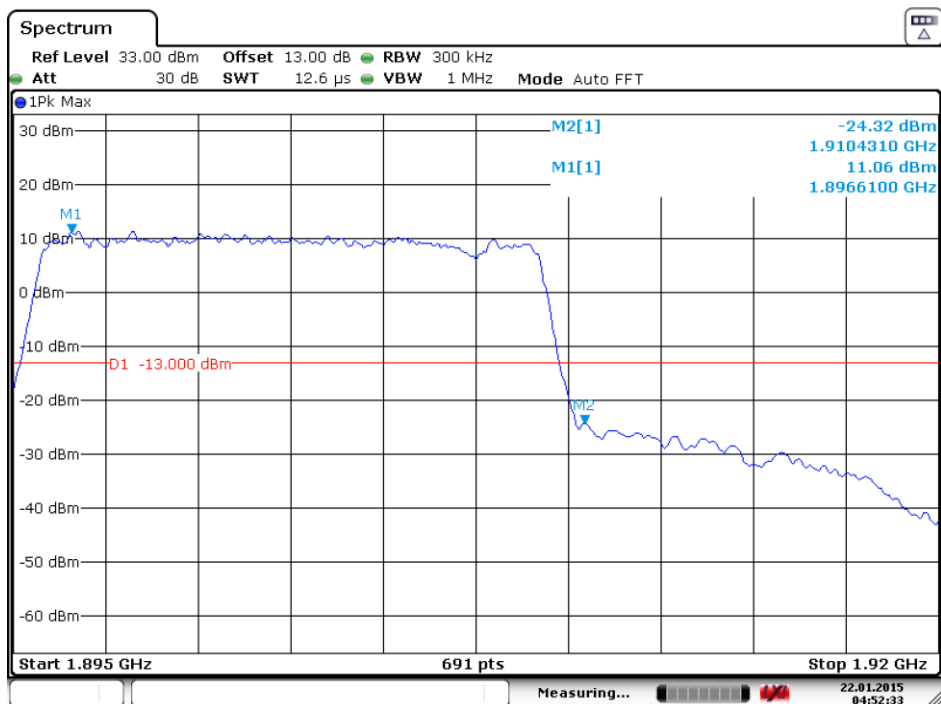
Date: 22.JAN.2015 04:50:48

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