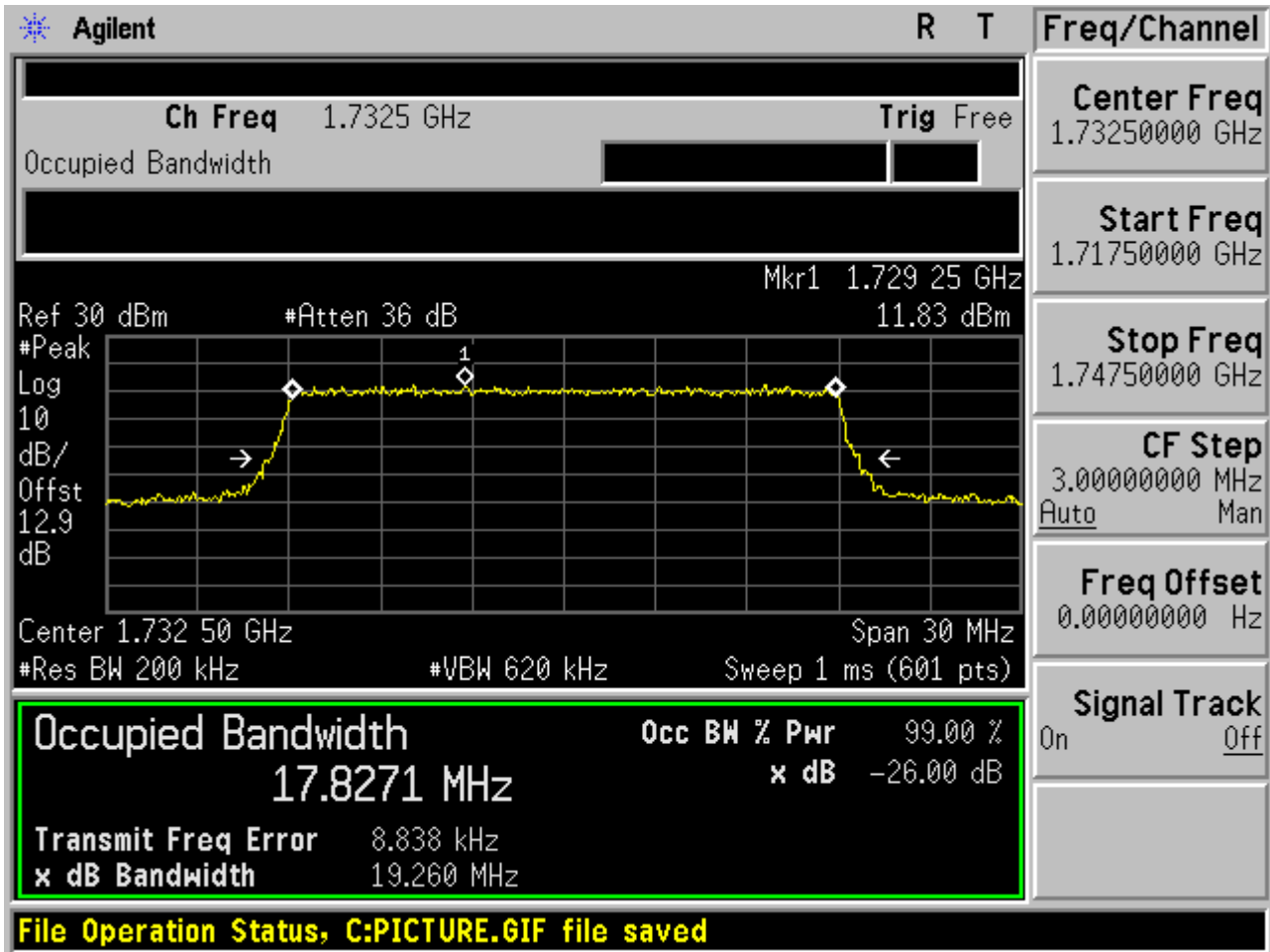




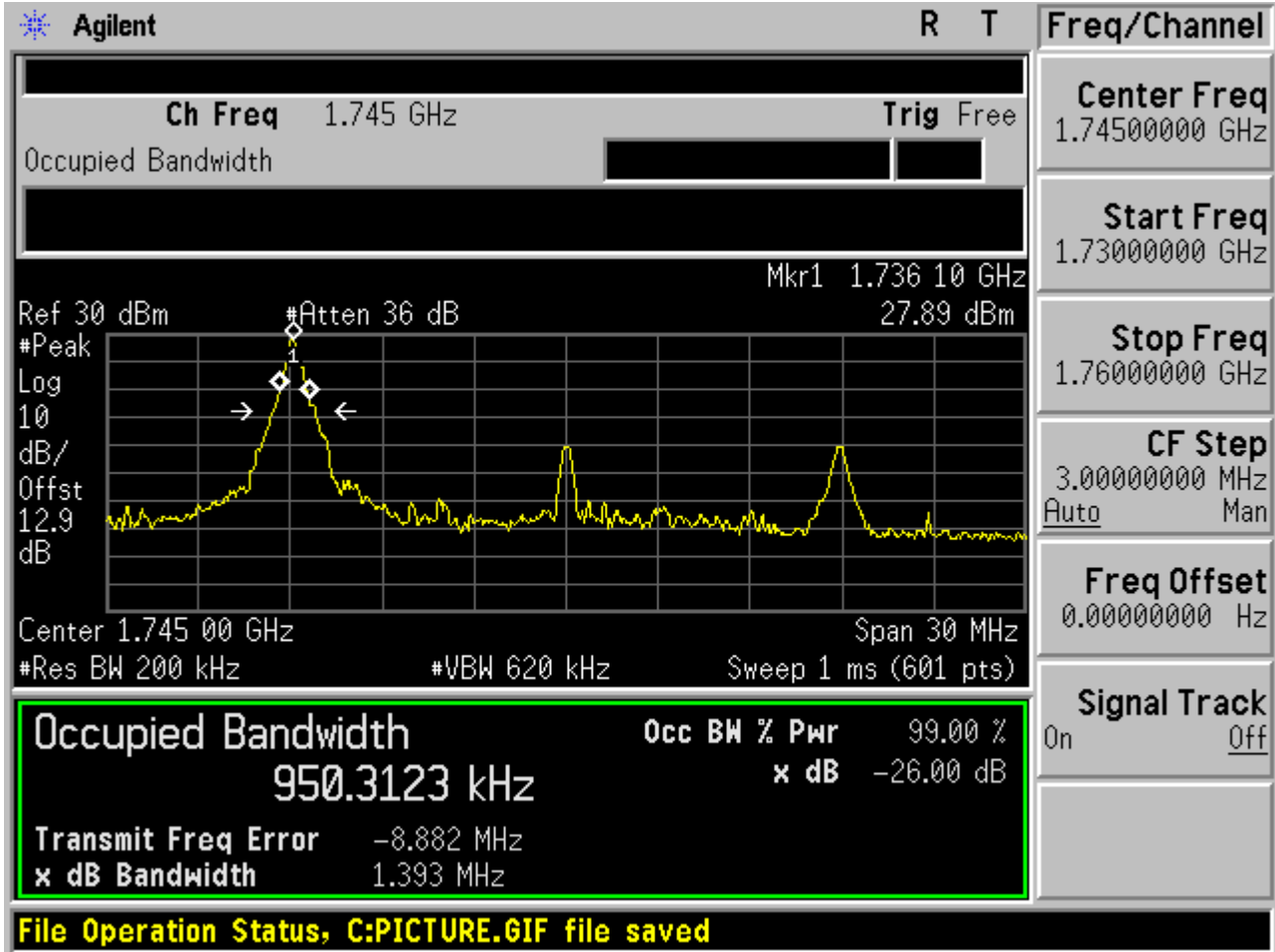
2.2.6.2.4 16QAM /full RBs





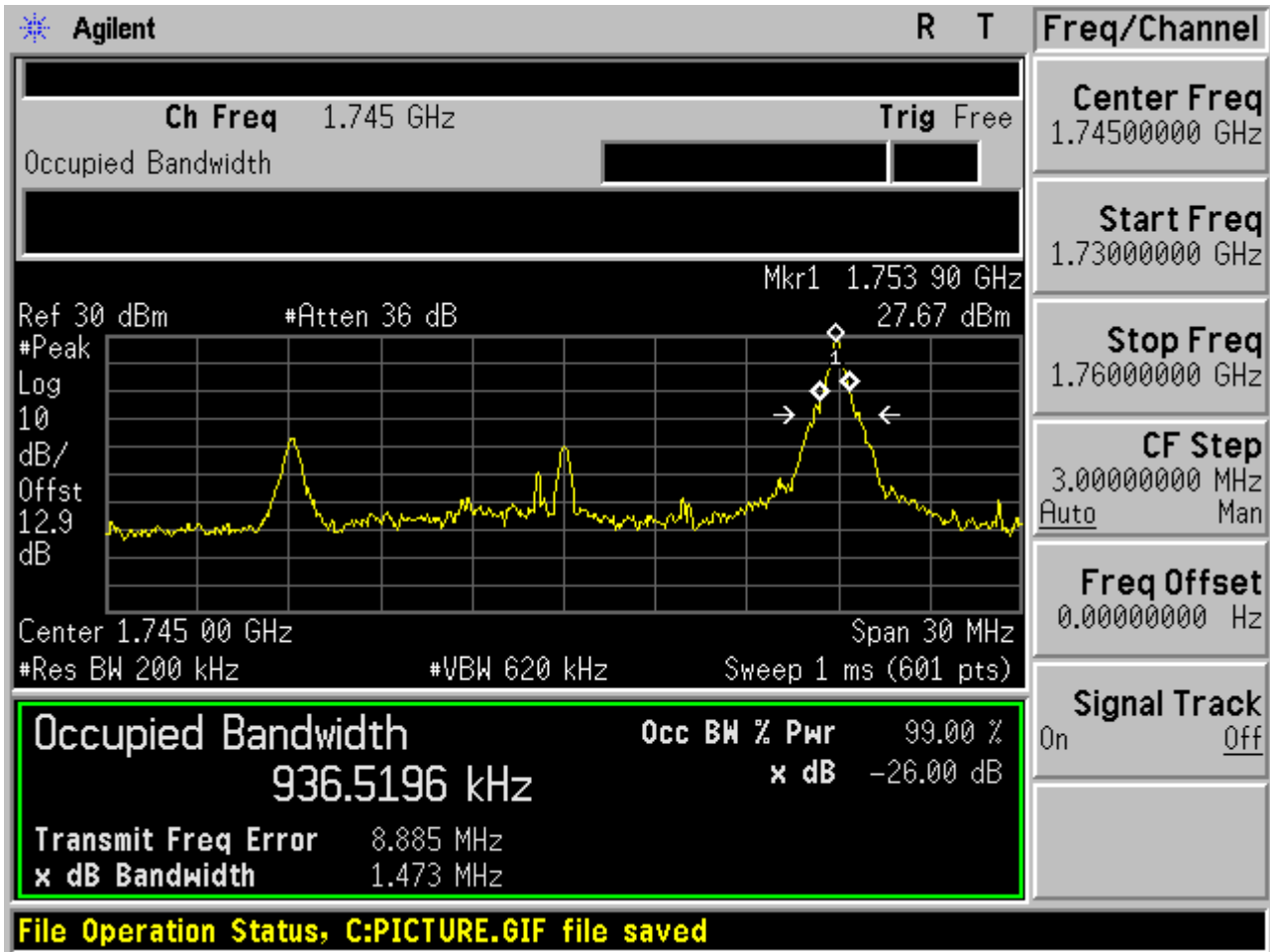
### 2.2.6.3 Channel =T

#### 2.2.6.3.1 16QAM/1RB # 0



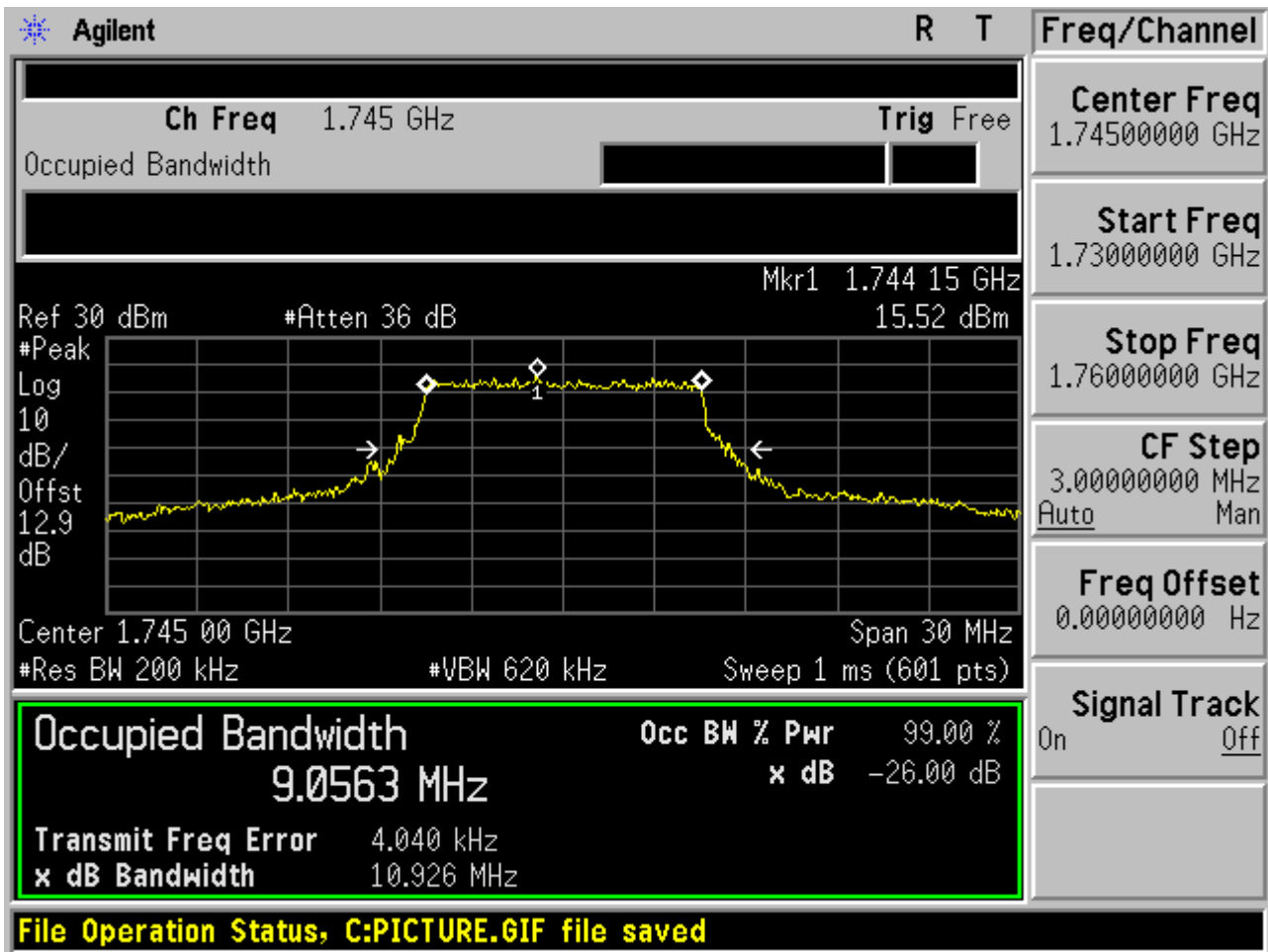


2.2.6.3.2 16QAM /1RB # max



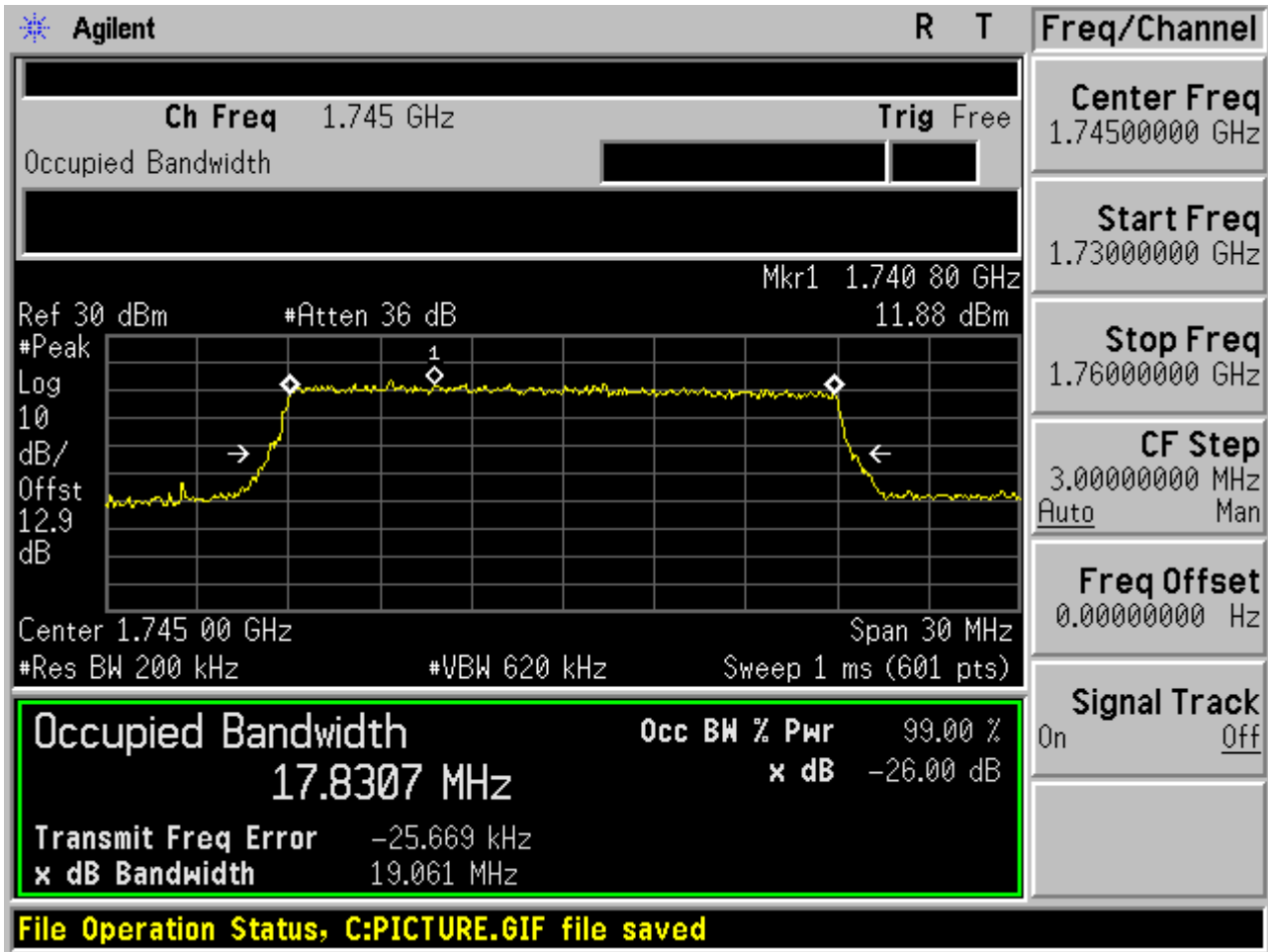


### 2.2.6.3.3 16QAM /non-1RB #mid/2





2.2.6.3.4 16QAM /full RBs



-----END-----



# Appendix D

## Band Edges Compliance

According to FCC Part 2.1051 & 27.53(h) & RSS-139



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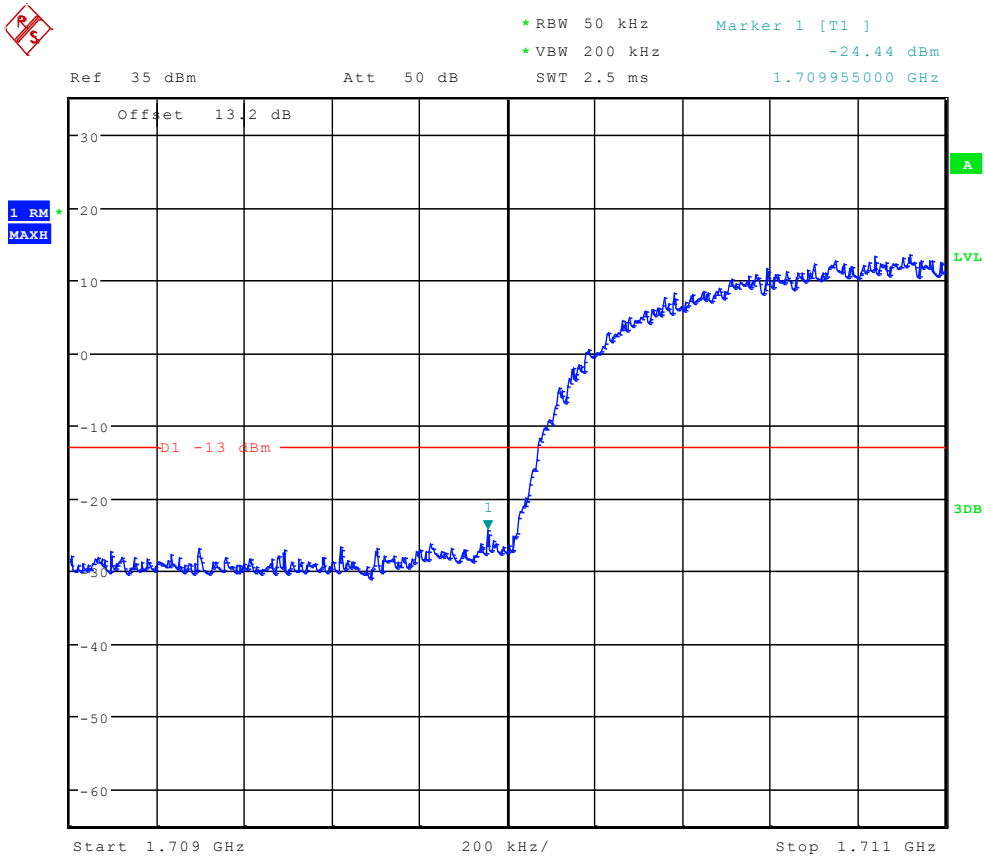
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# 1 For WCDMA Band 4

## 1.1 Test Mode=TM1

### 1.1.1 Channel = B



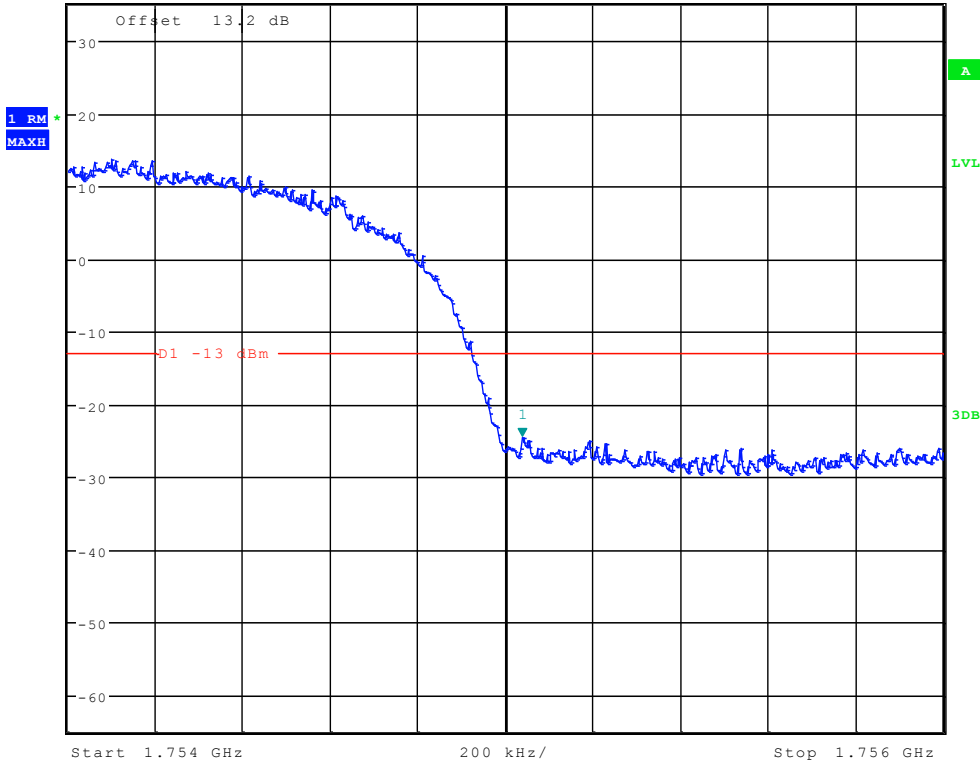
Date: 29.AUG.2012 14:40:31



### 1.1.2 Channel = T



\* RBW 50 kHz      Marker 1 [T1 ]  
\* VBW 200 kHz      -24.65 dBm  
Ref 35 dBm      Att 50 dB      SWT 2.5 ms      1.755040000 GHz



Date: 29.AUG.2012 14:40:44



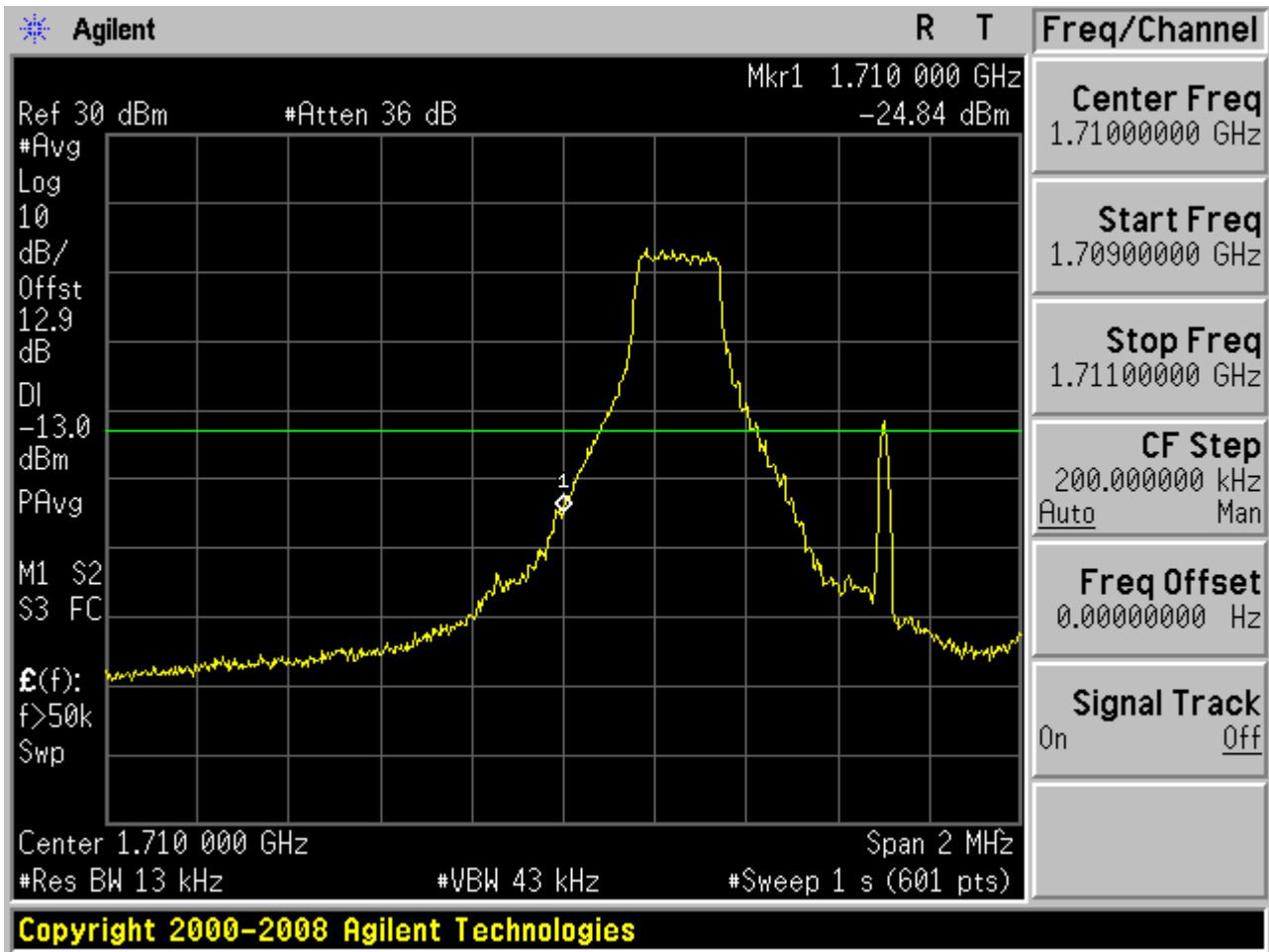
**2 For LTE Band 4**

**2.1 Test Mode=TM4**

**2.1.1 Channel Bandwidth = 1.4 MHz**

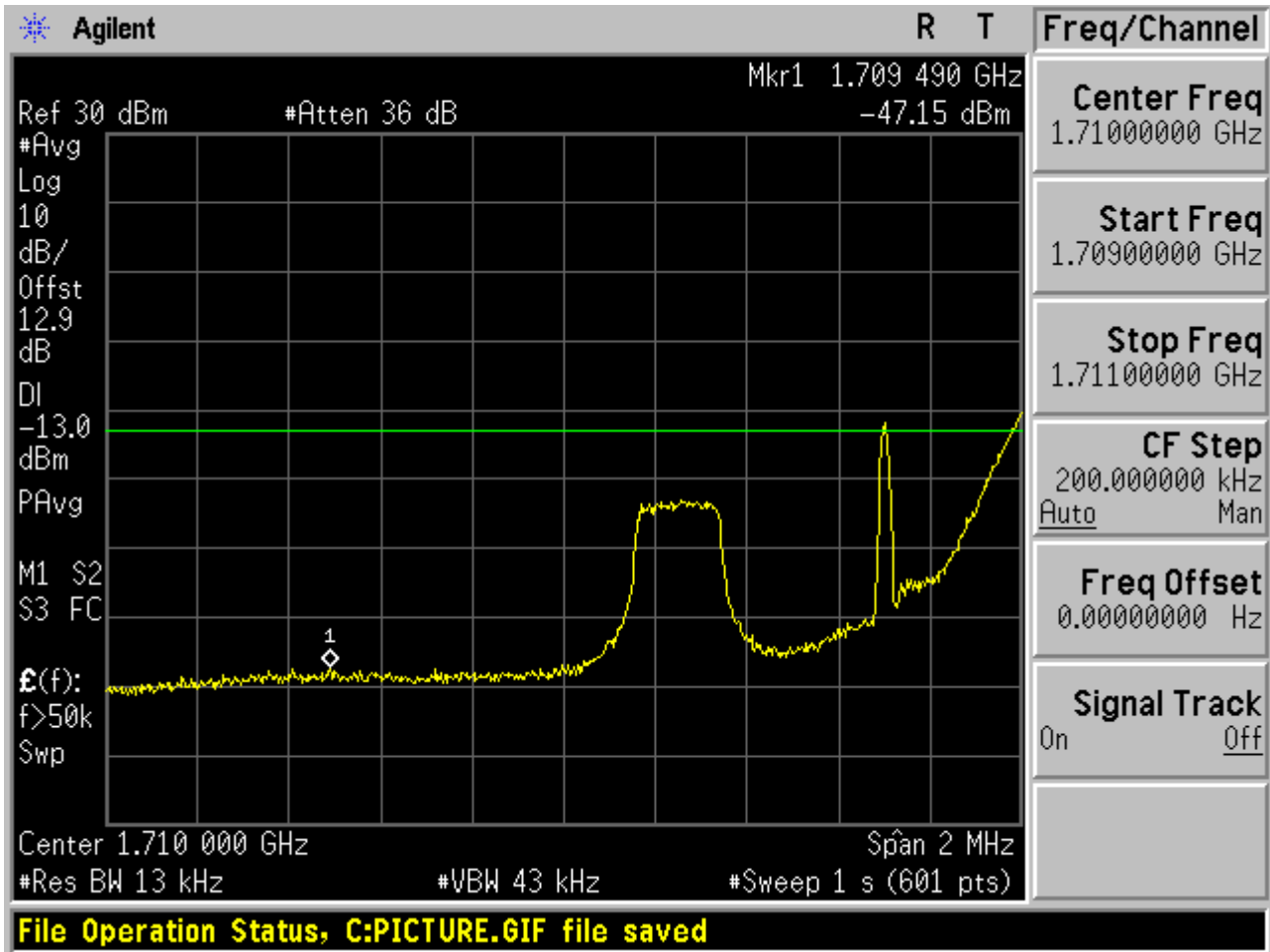
**2.1.1.1 Channel= B**

**2.1.1.1.1 QPSK/1RB # 0**



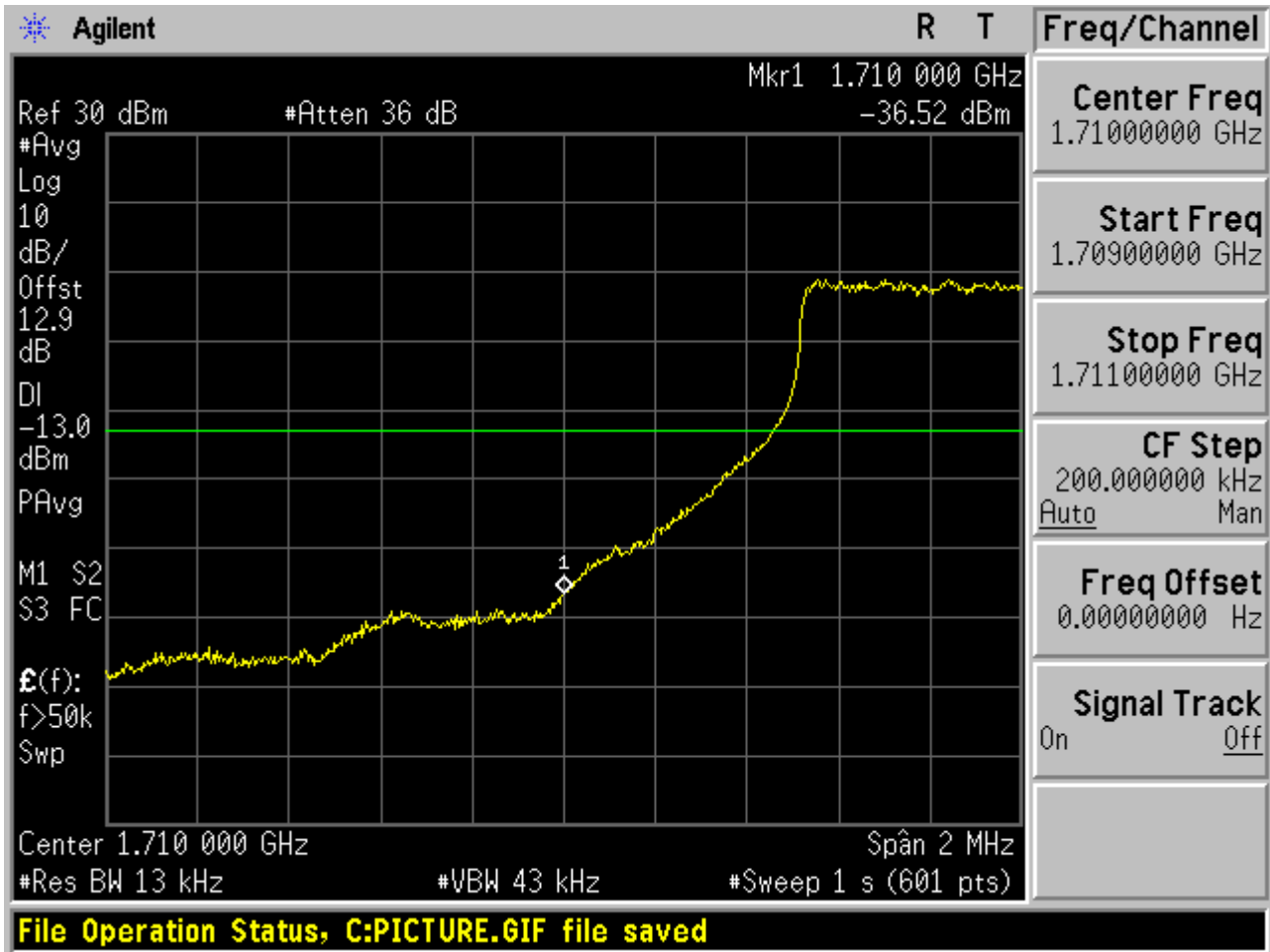


2.1.1.1.2 QPSK/1RB # max



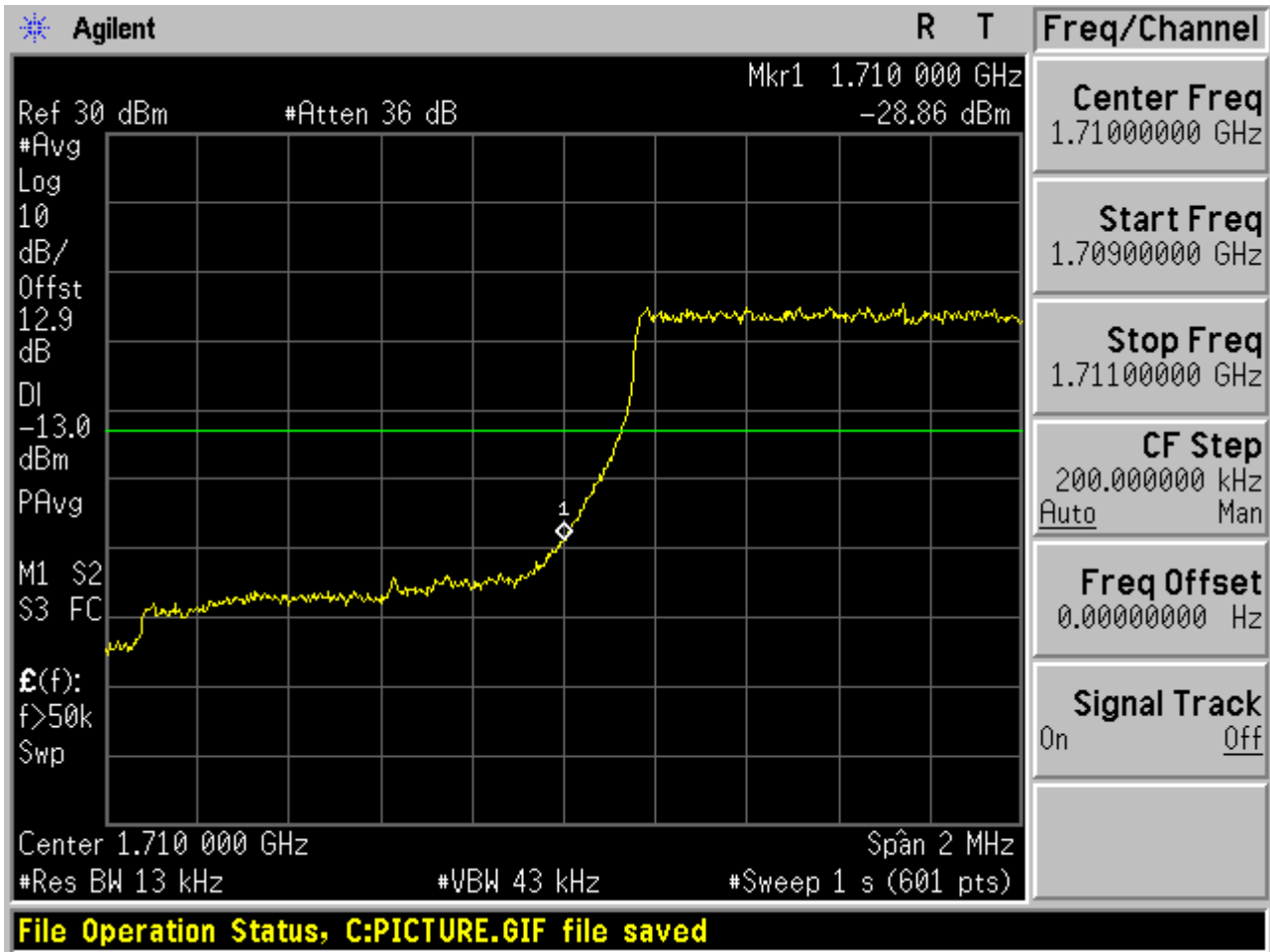


2.1.1.1.3 QPSK/non-1RB #mid/2





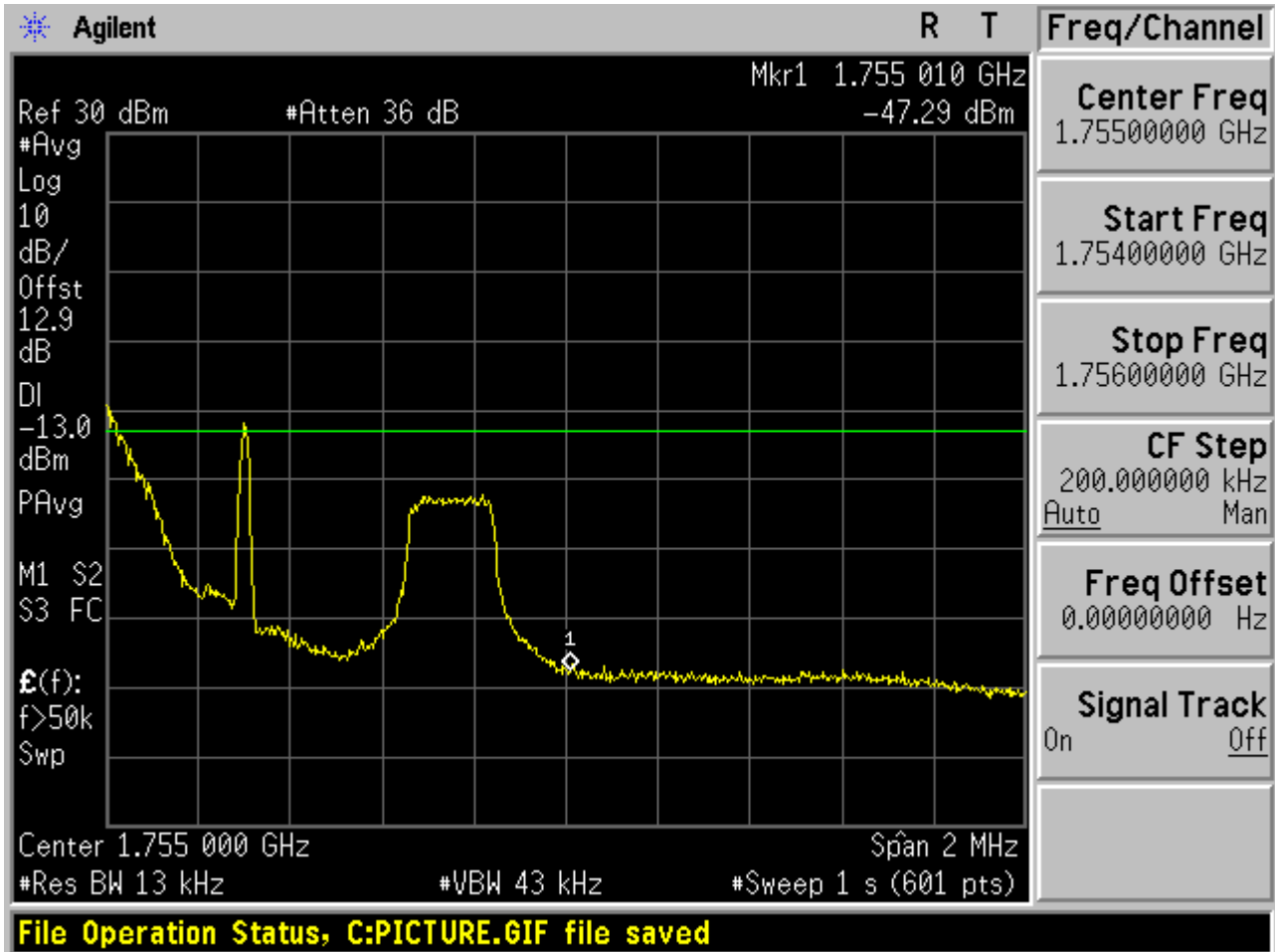
2.1.1.1.4 QPSK/full RBs





## 2.1.1.2 Channel= T

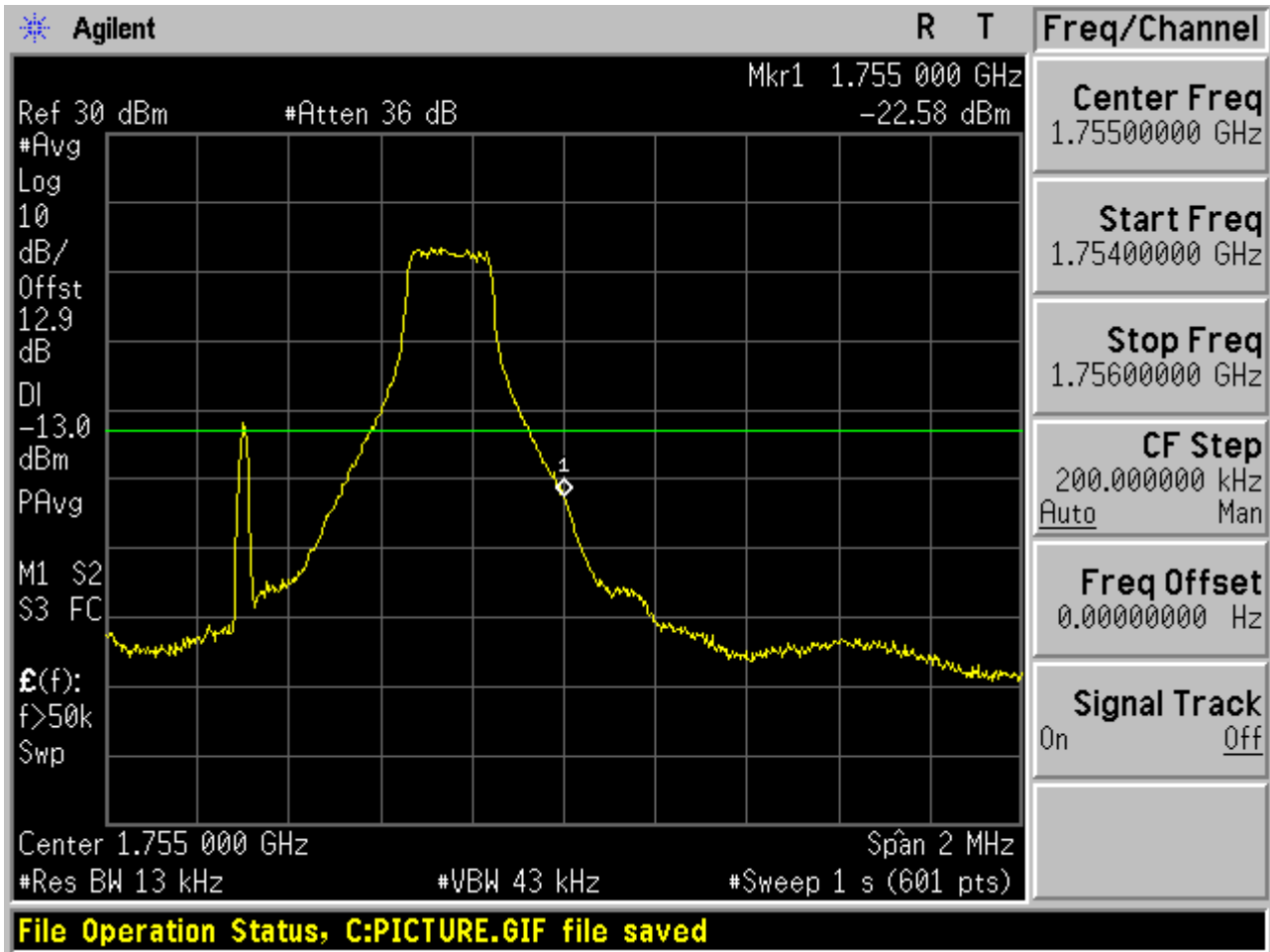
### 2.1.1.2.1 QPSK/1RB # 0





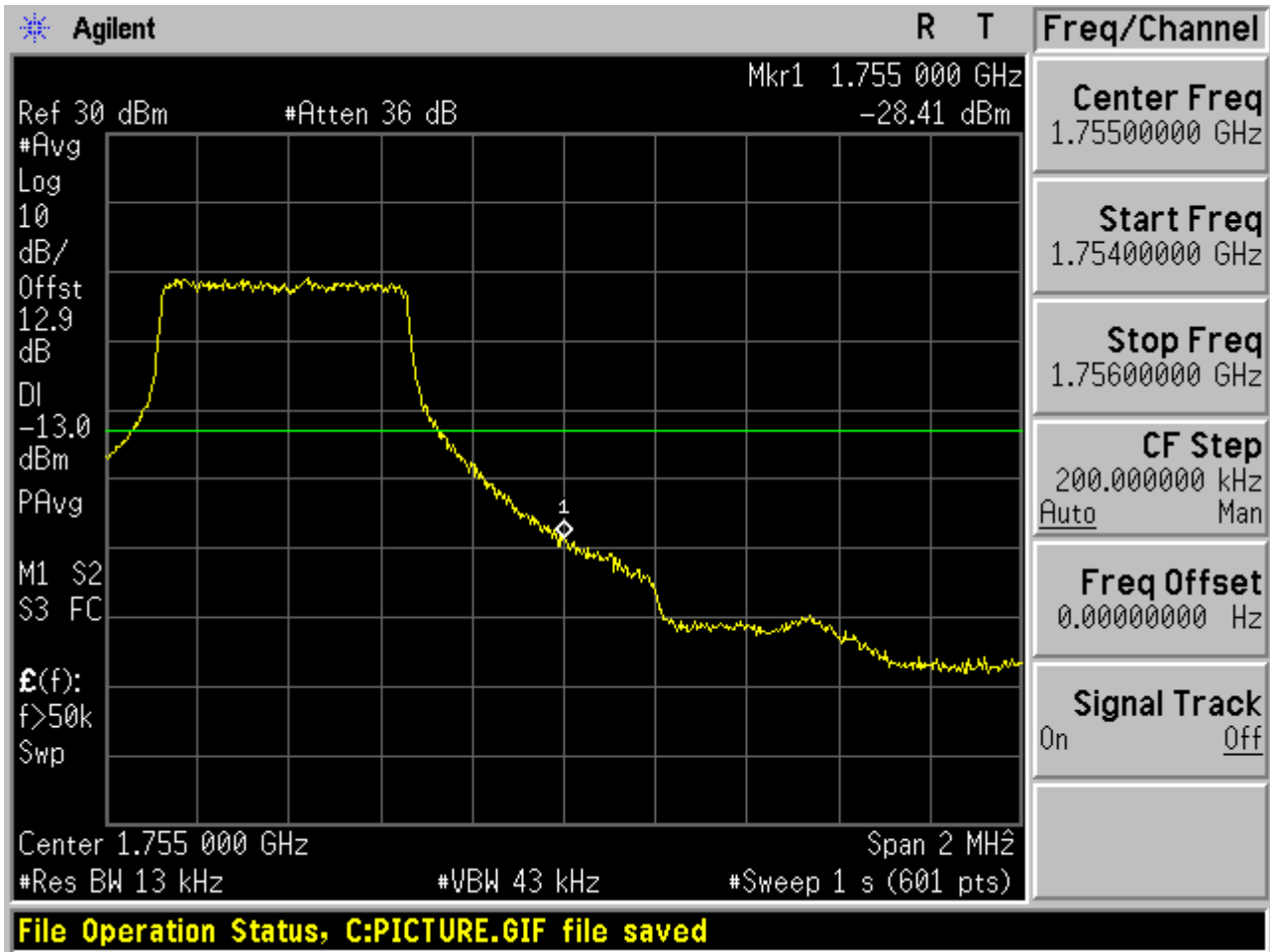


2.1.1.2.2 QPSK/1RB # max



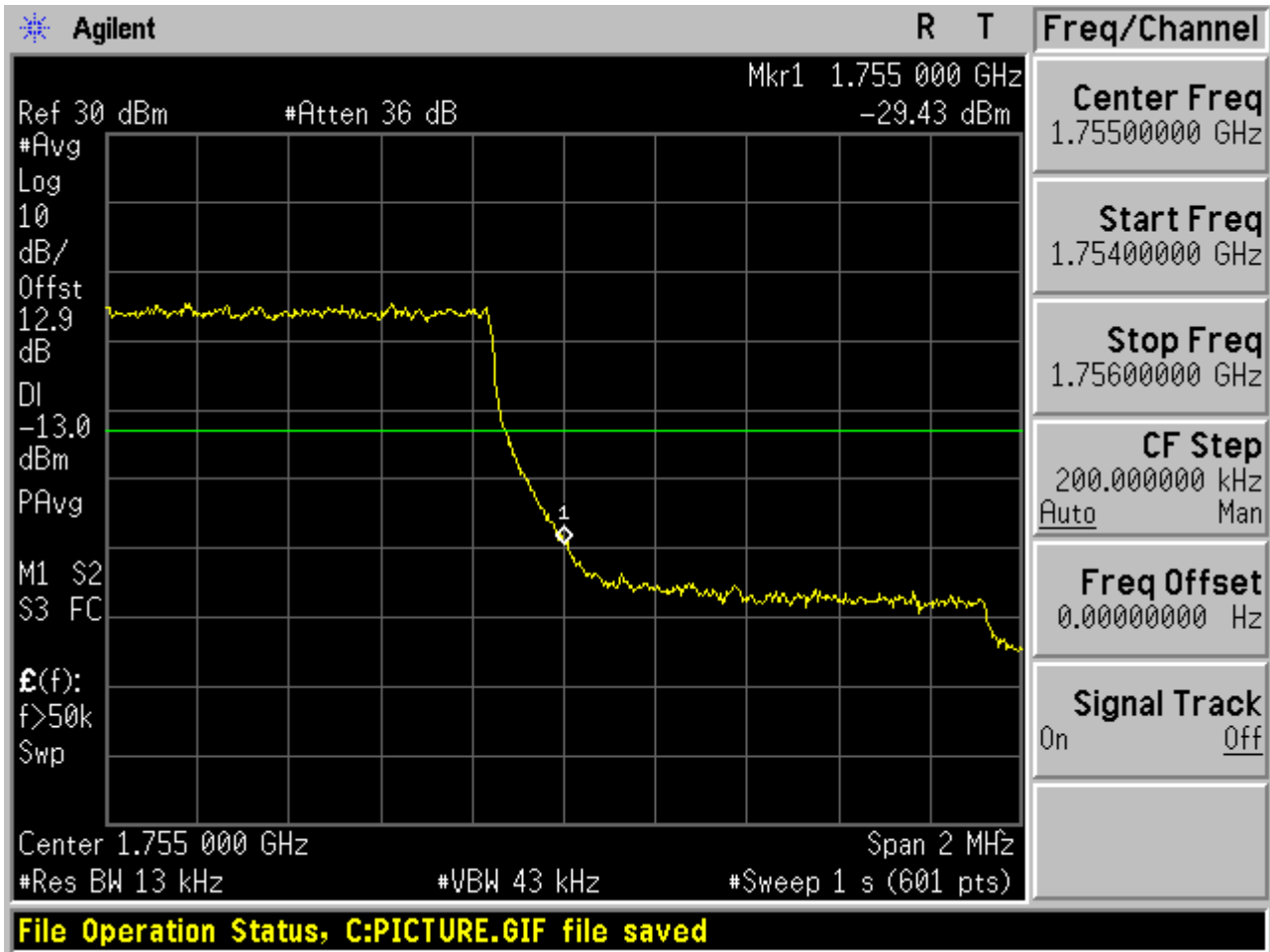


2.1.1.2.3 QPSK/non-1RB #mid/2





### 2.1.1.2.4 QPSK/full RBs

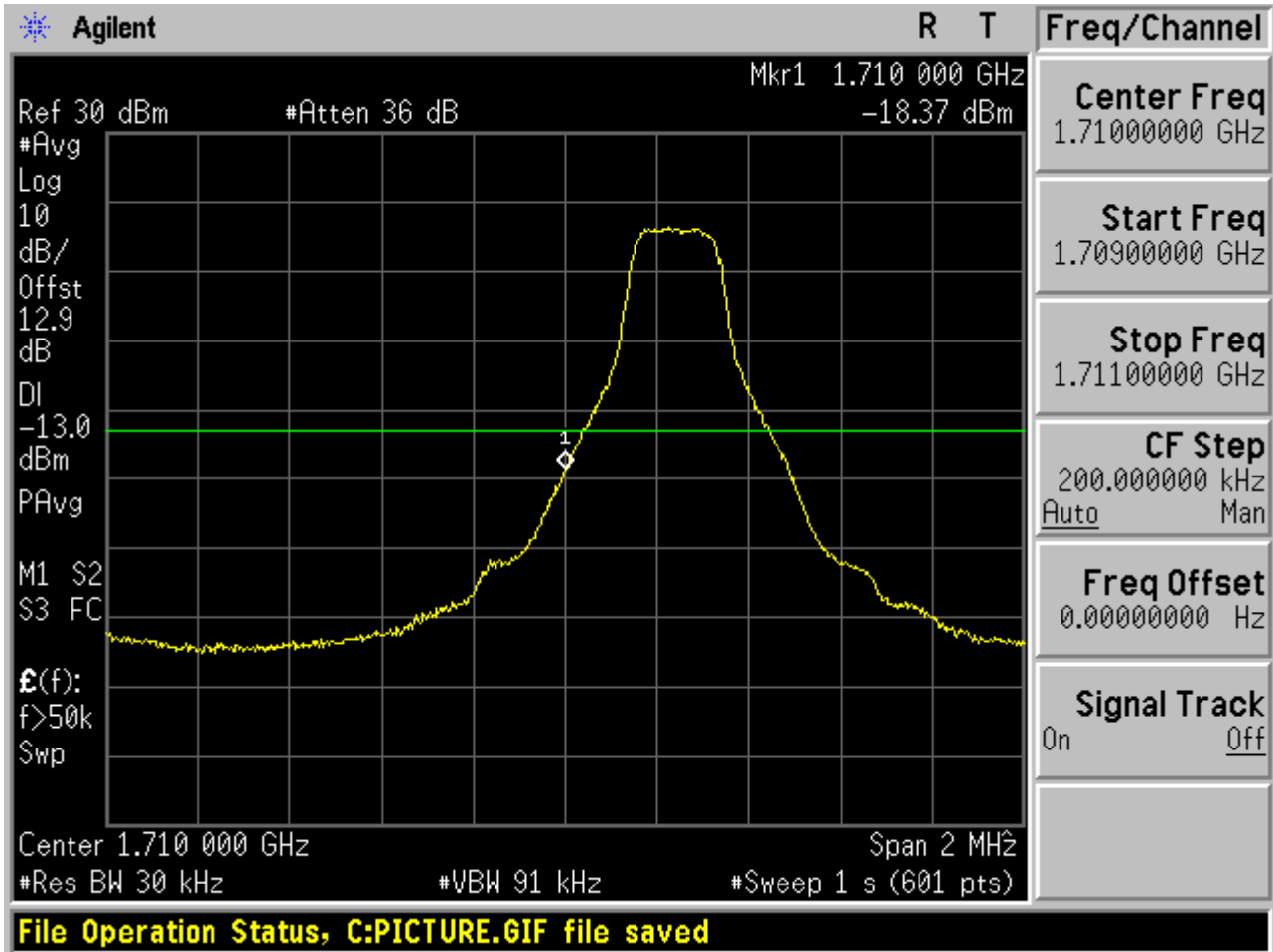




## 2.1.2 Channel Bandwidth = 3 MHz

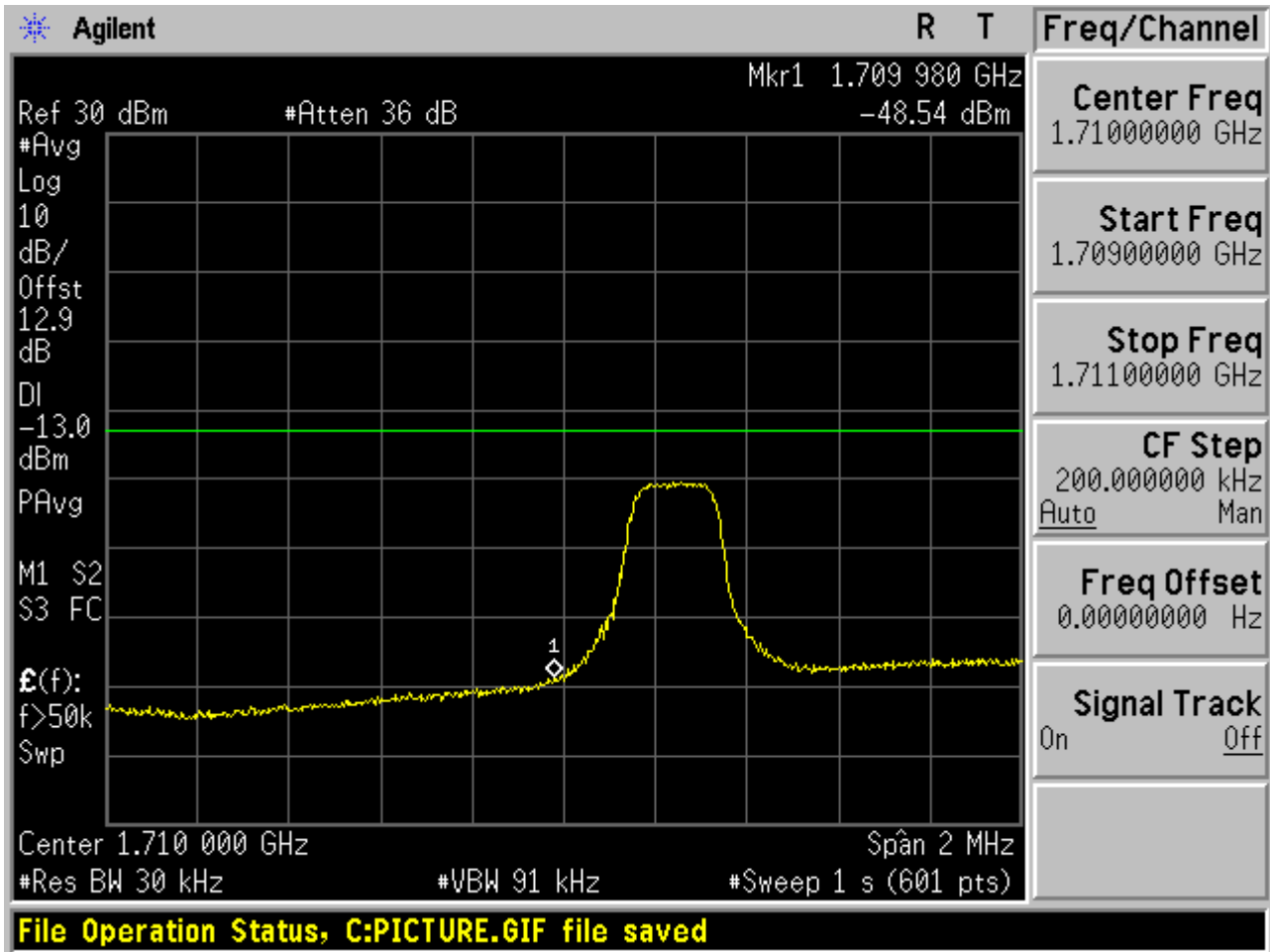
### 2.1.2.1 Channel= B

#### 2.1.2.1.1 QPSK/1RB # 0



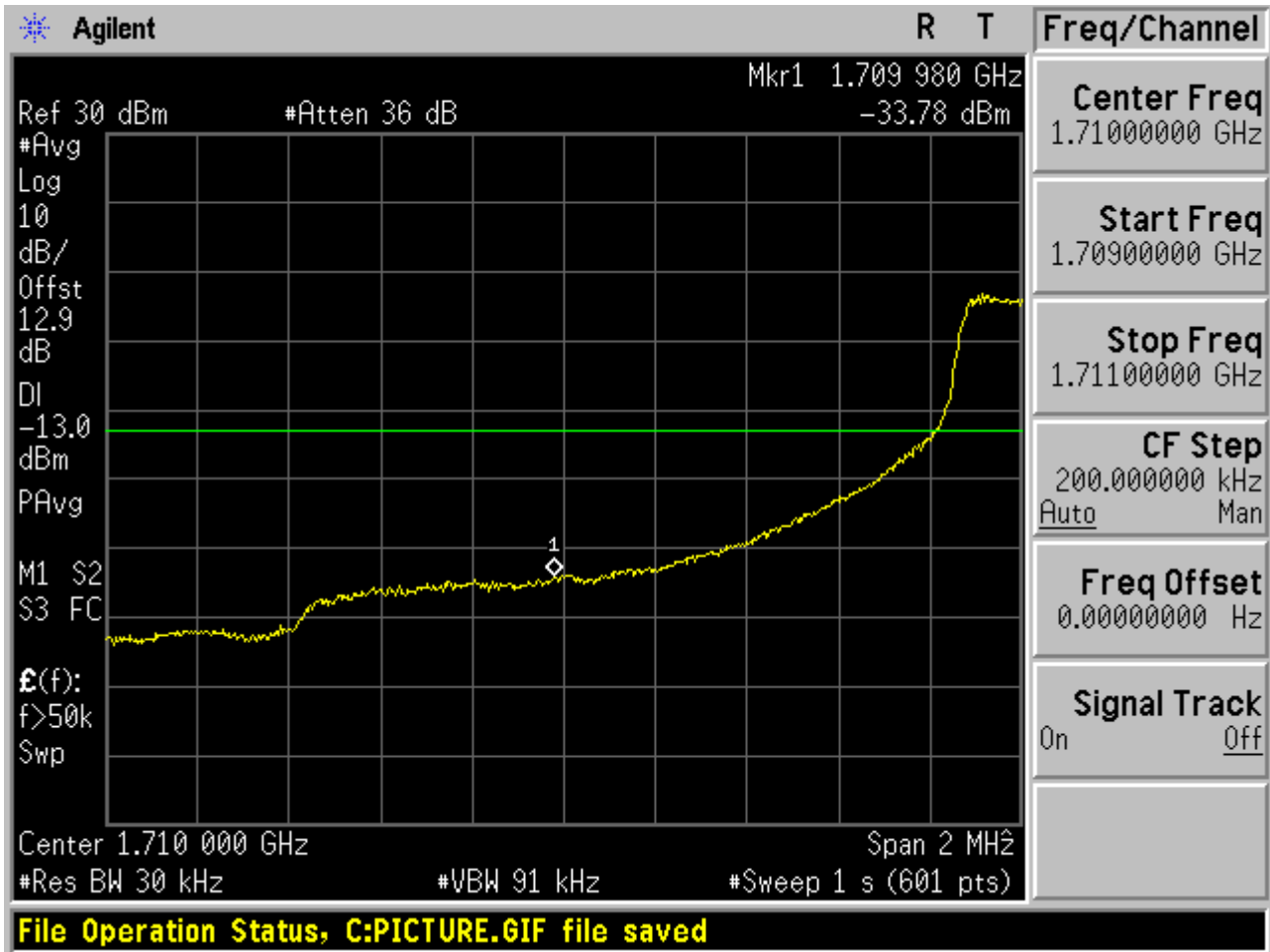


2.1.2.1.2 QPSK/1RB # max



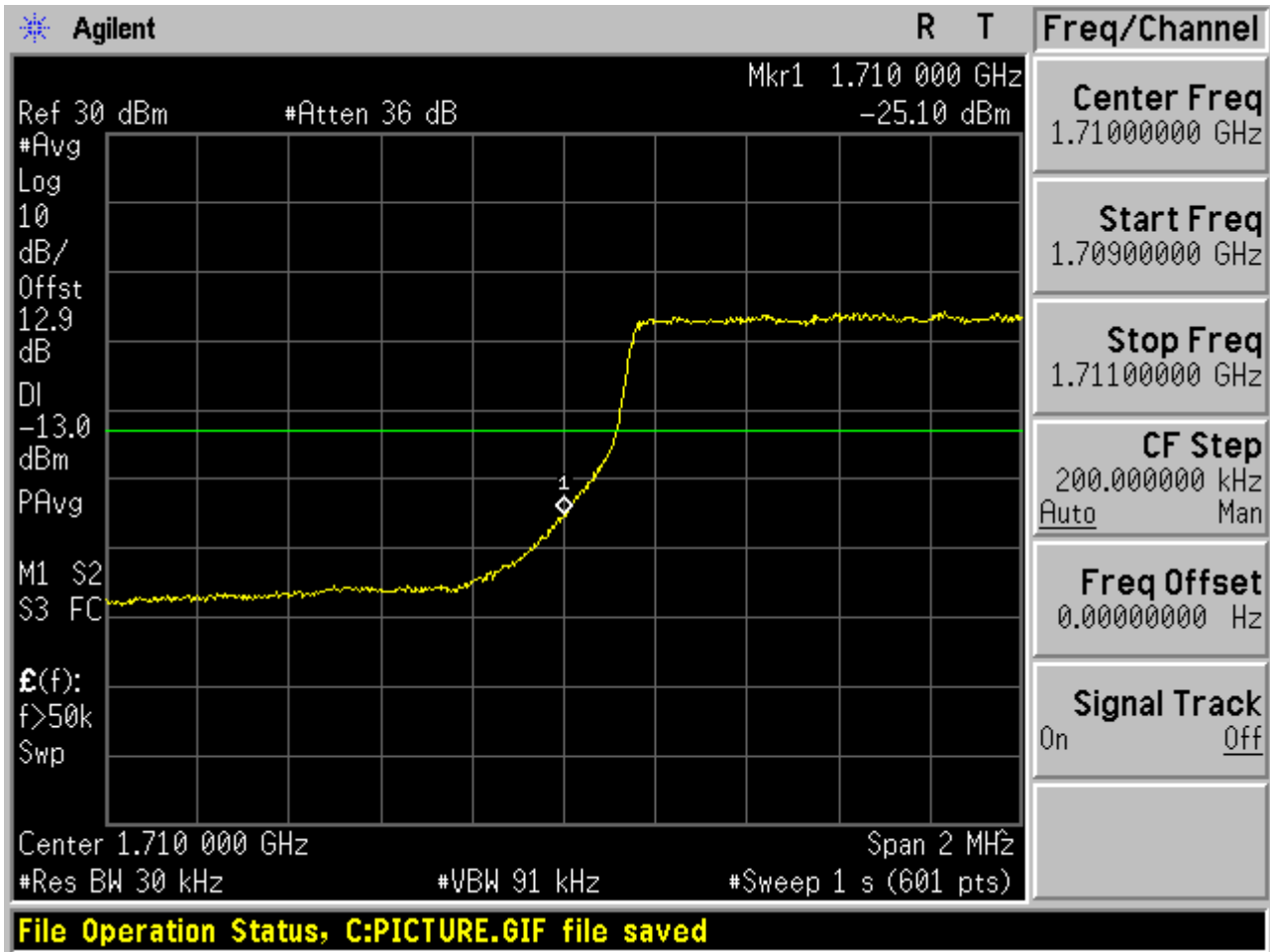


2.1.2.1.3 QPSK/non-1RB #mid/2





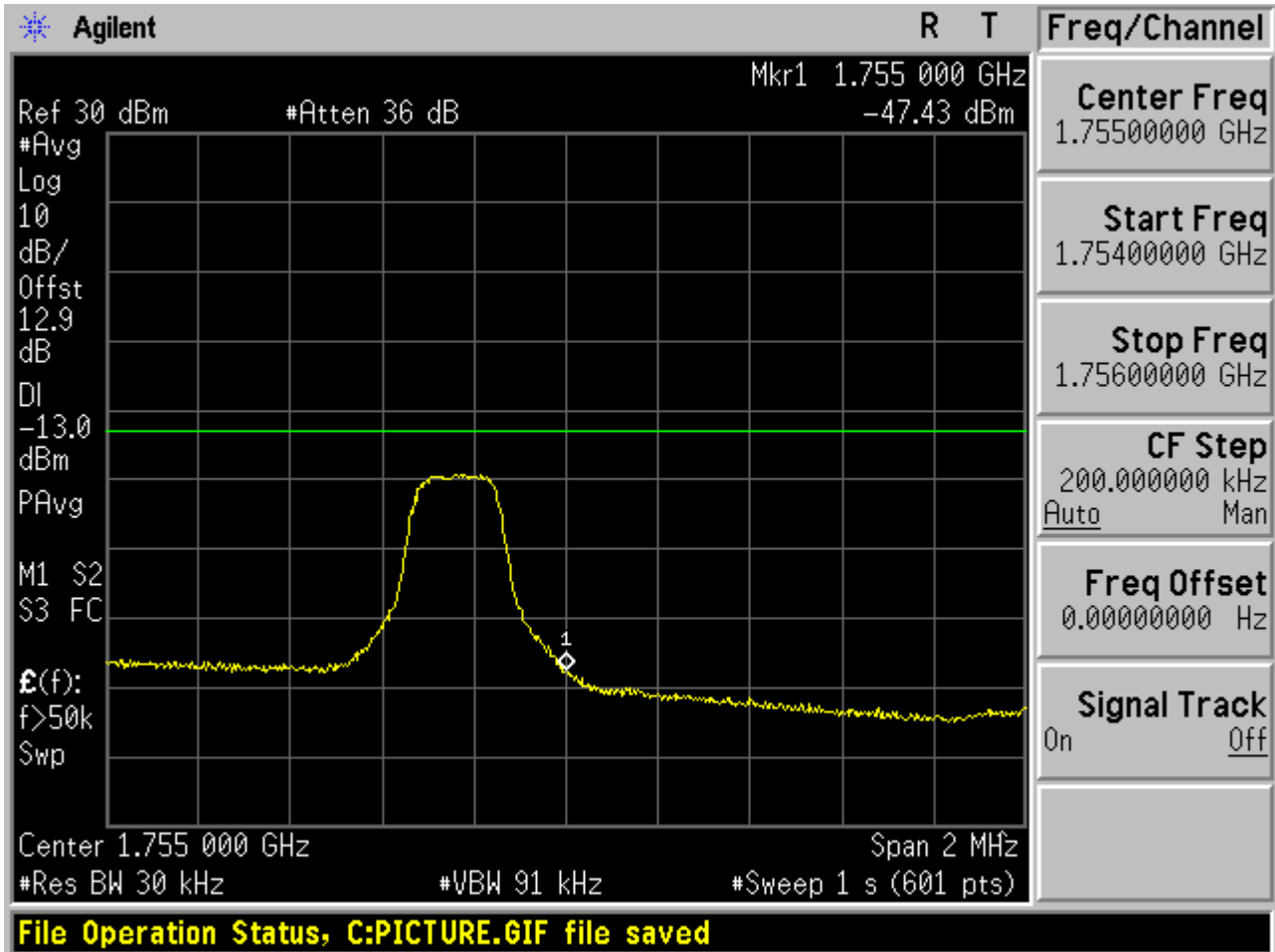
### 2.1.2.1.4 QPSK/full RBs





## 2.1.2.2 Channel= T

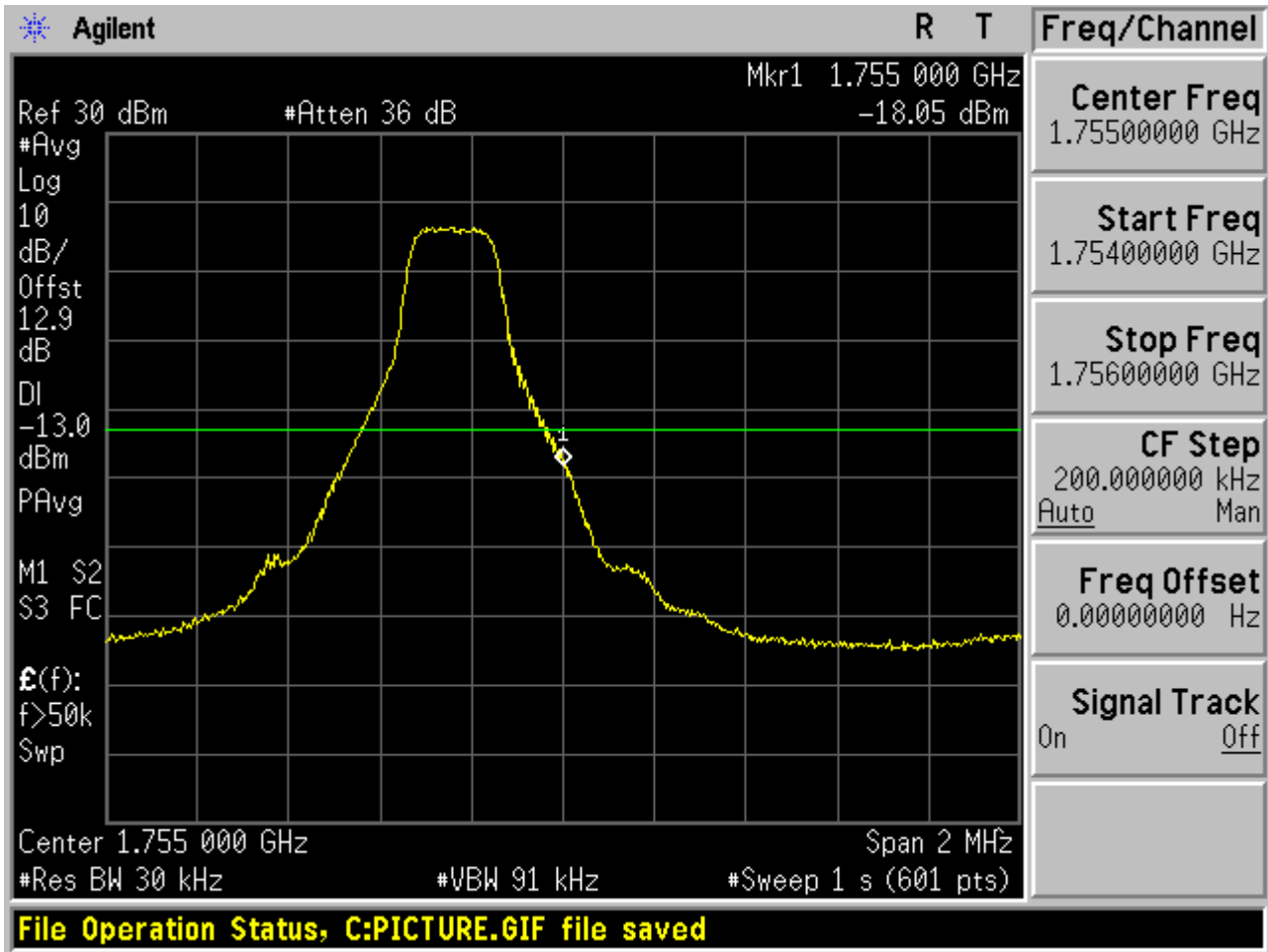
### 2.1.2.2.1 QPSK/1RB # 0





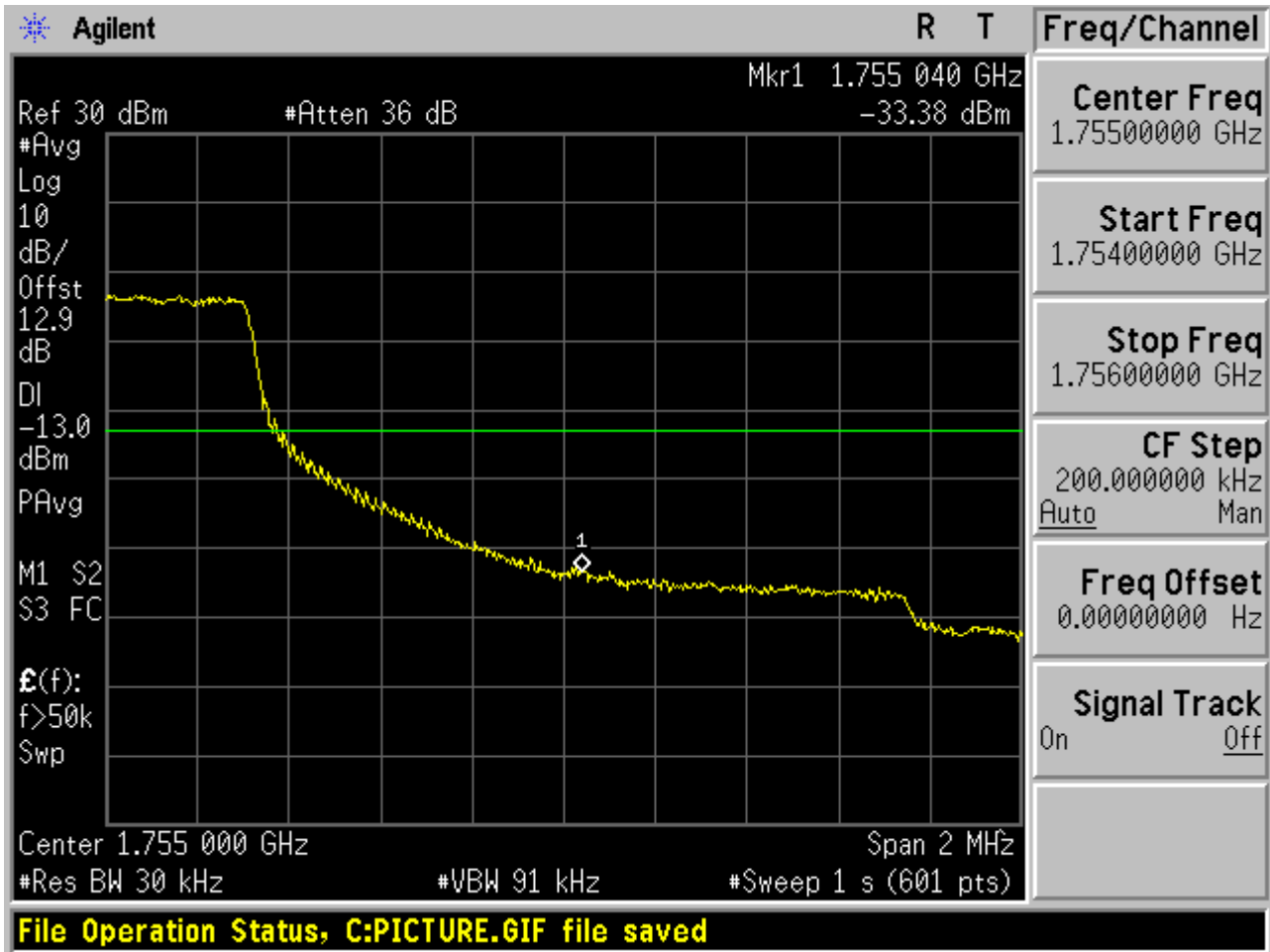


2.1.2.2.2 QPSK/1RB # max



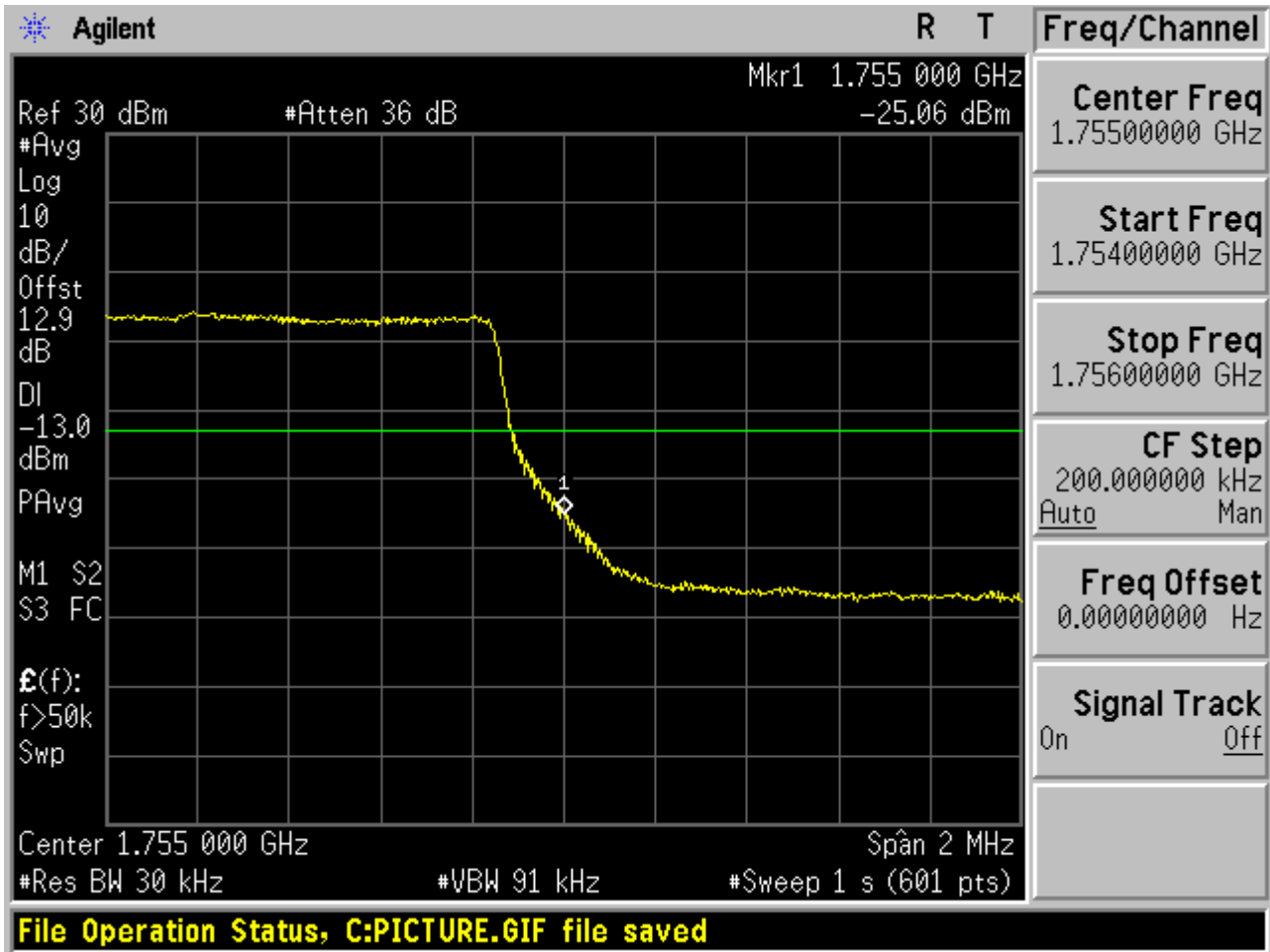


2.1.2.2.3 QPSK/non-1RB #mid/2





### 2.1.2.2.4 QPSK/full RBs

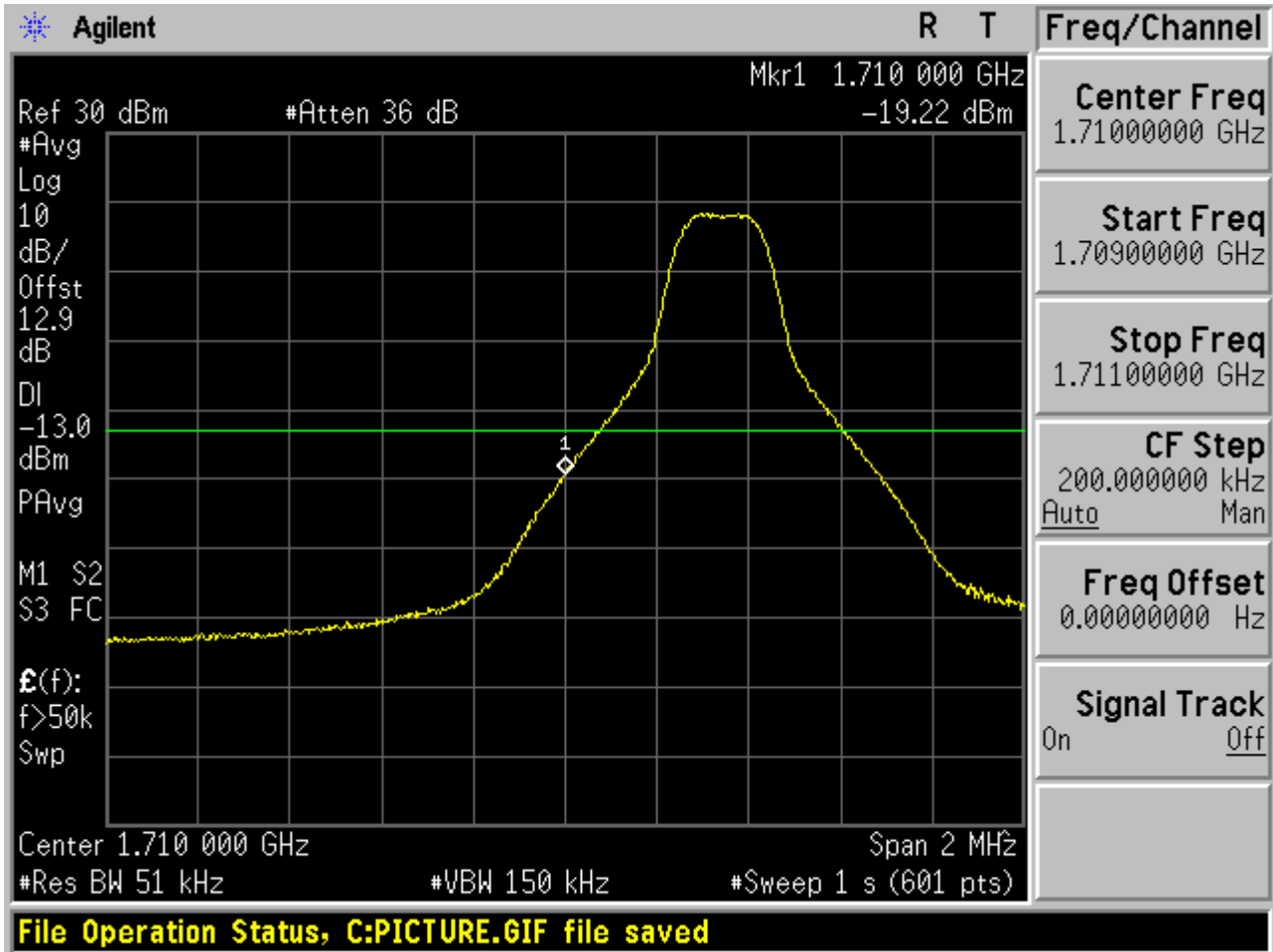




### 2.1.3 Channel Bandwidth = 5 MHz

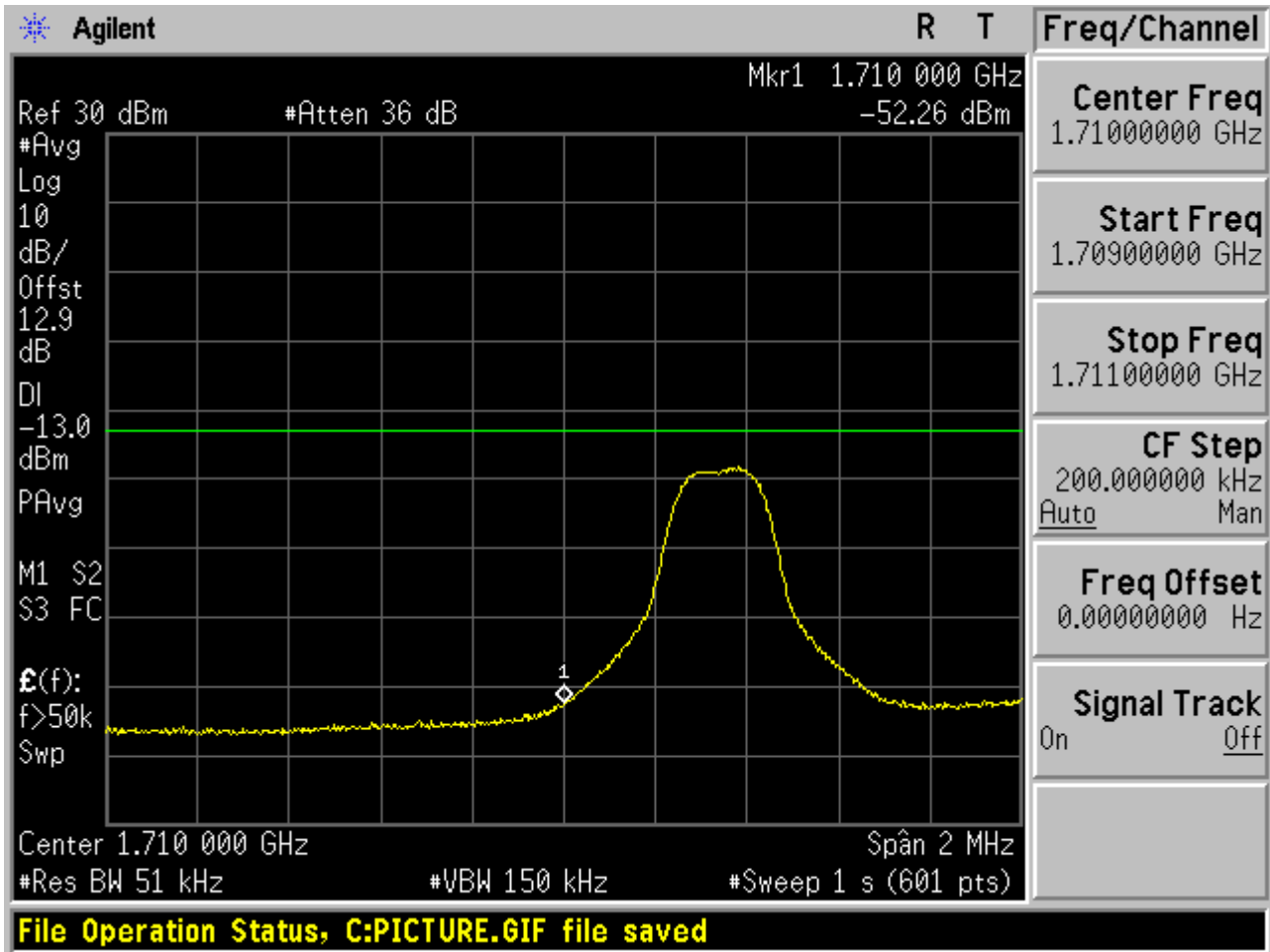
#### 2.1.3.1 Channel= B

##### 2.1.3.1.1 QPSK/1RB # 0



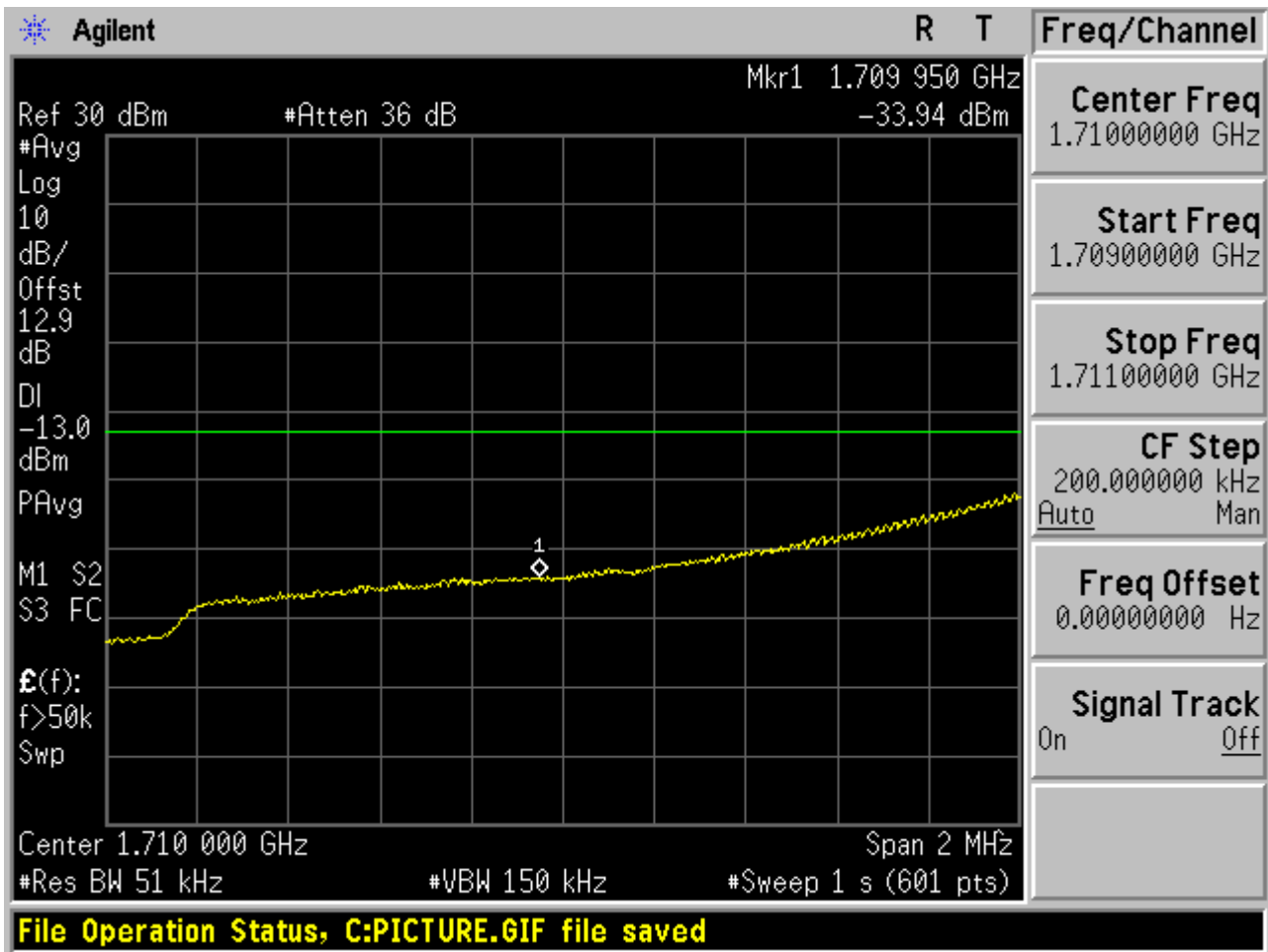


2.1.3.1.2 QPSK/1RB # max



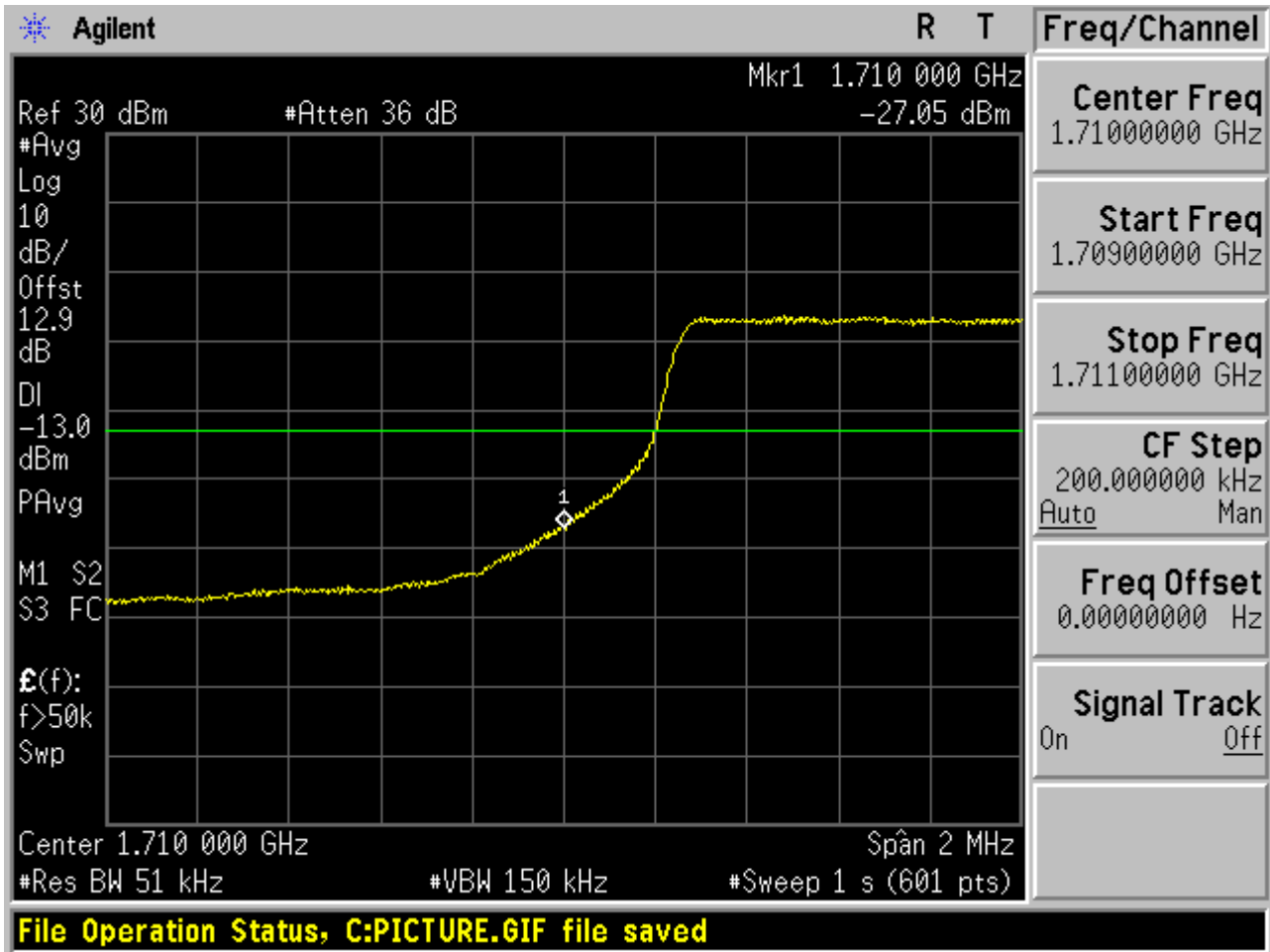


### 2.1.3.1.3 QPSK/non-1RB #mid/2





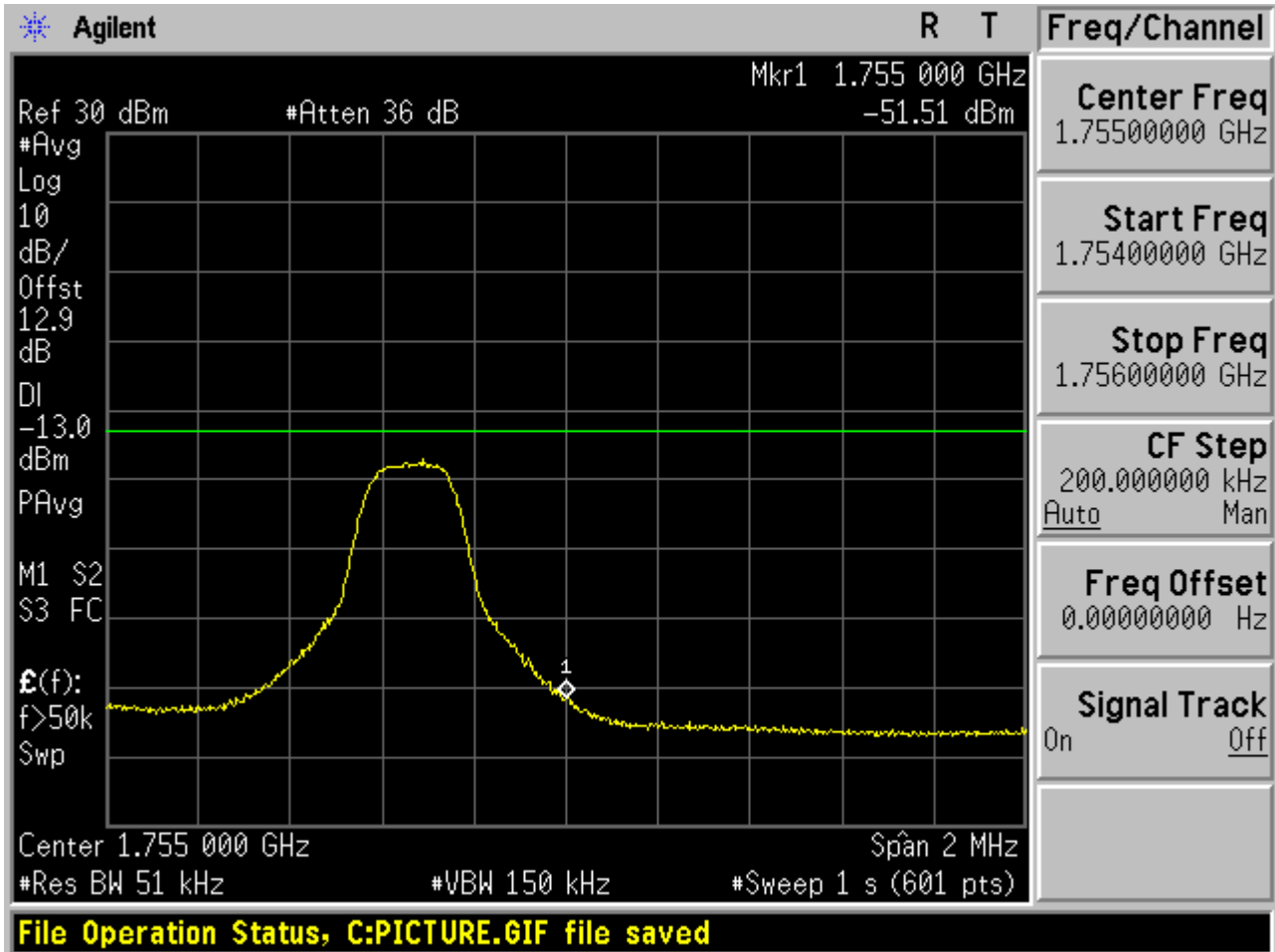
### 2.1.3.1.4 QPSK/full RBs





### 2.1.3.2 Channel= T

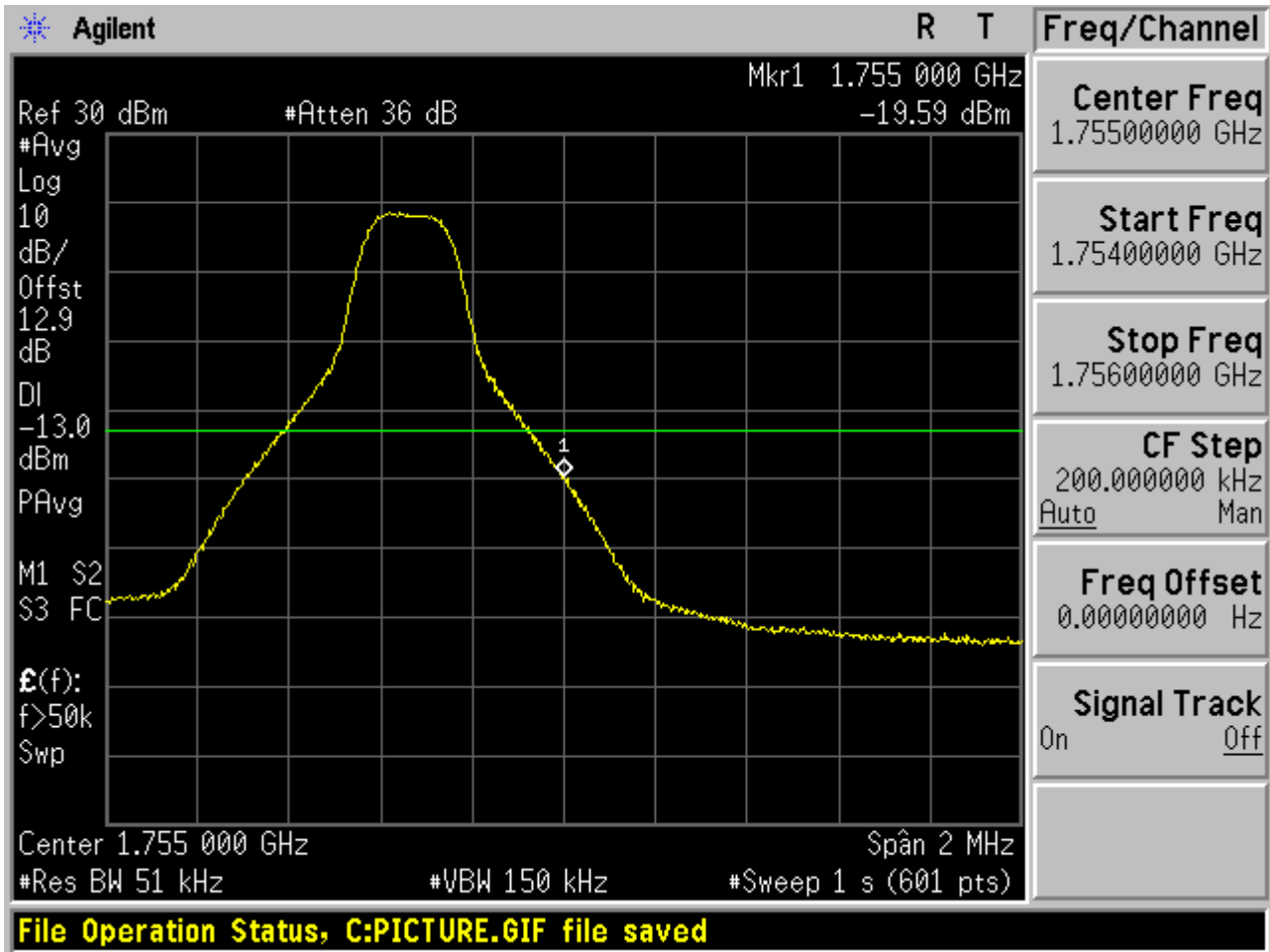
#### 2.1.3.2.1 QPSK/1RB # 0





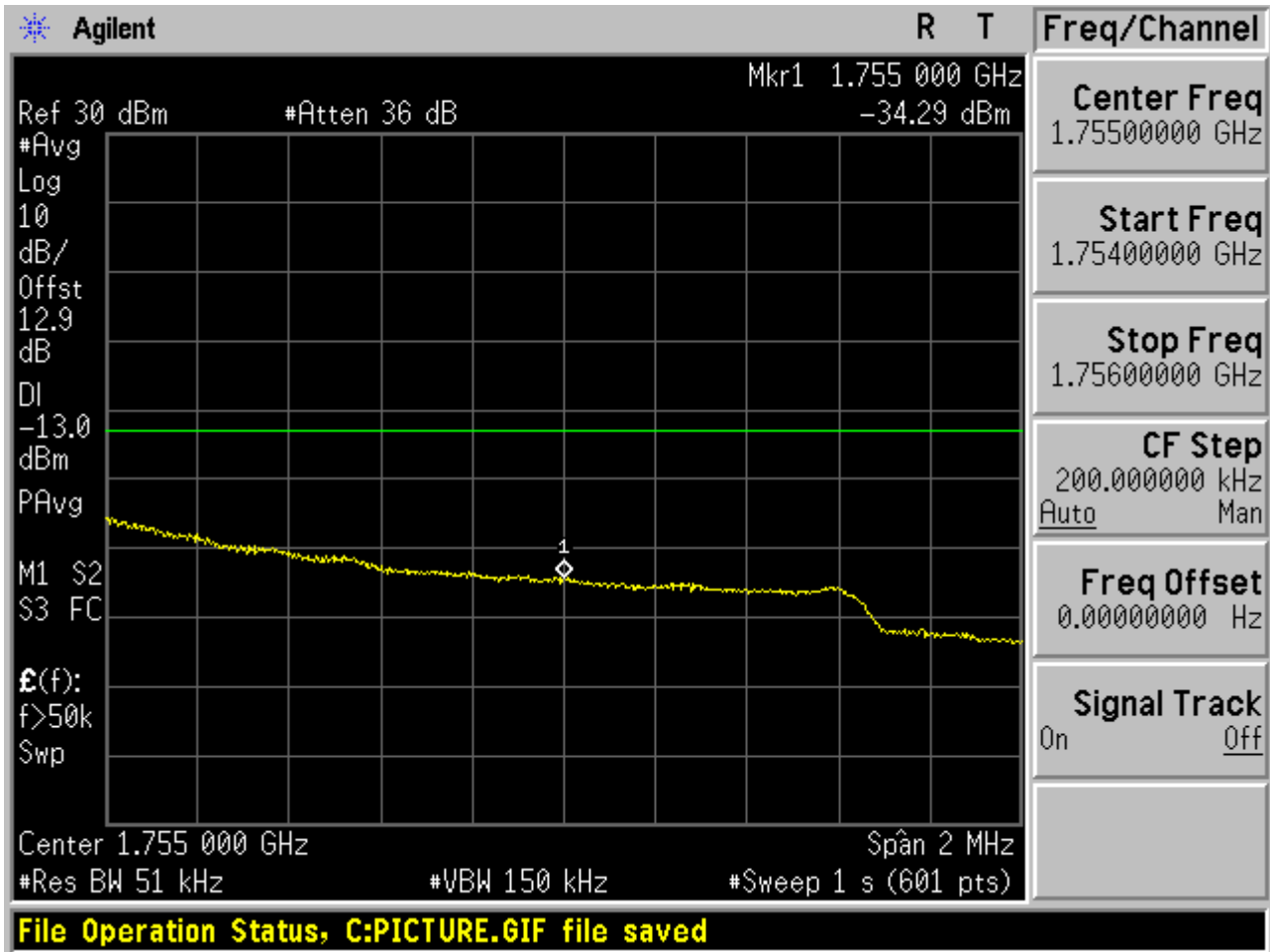


2.1.3.2.2 QPSK/1RB # max



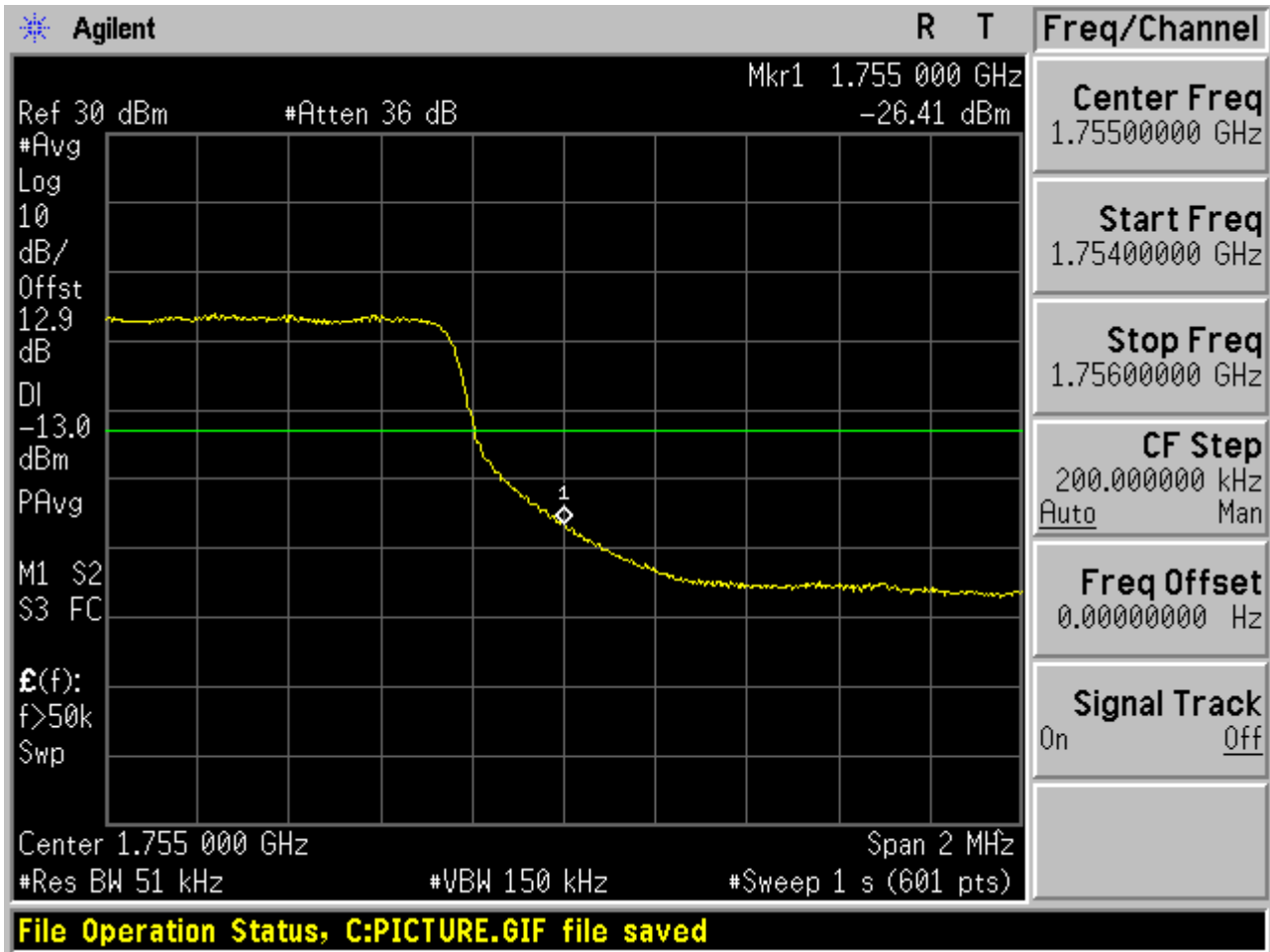


### 2.1.3.2.3 QPSK/non-1RB #mid/2





### 2.1.3.2.4 QPSK/full RBs

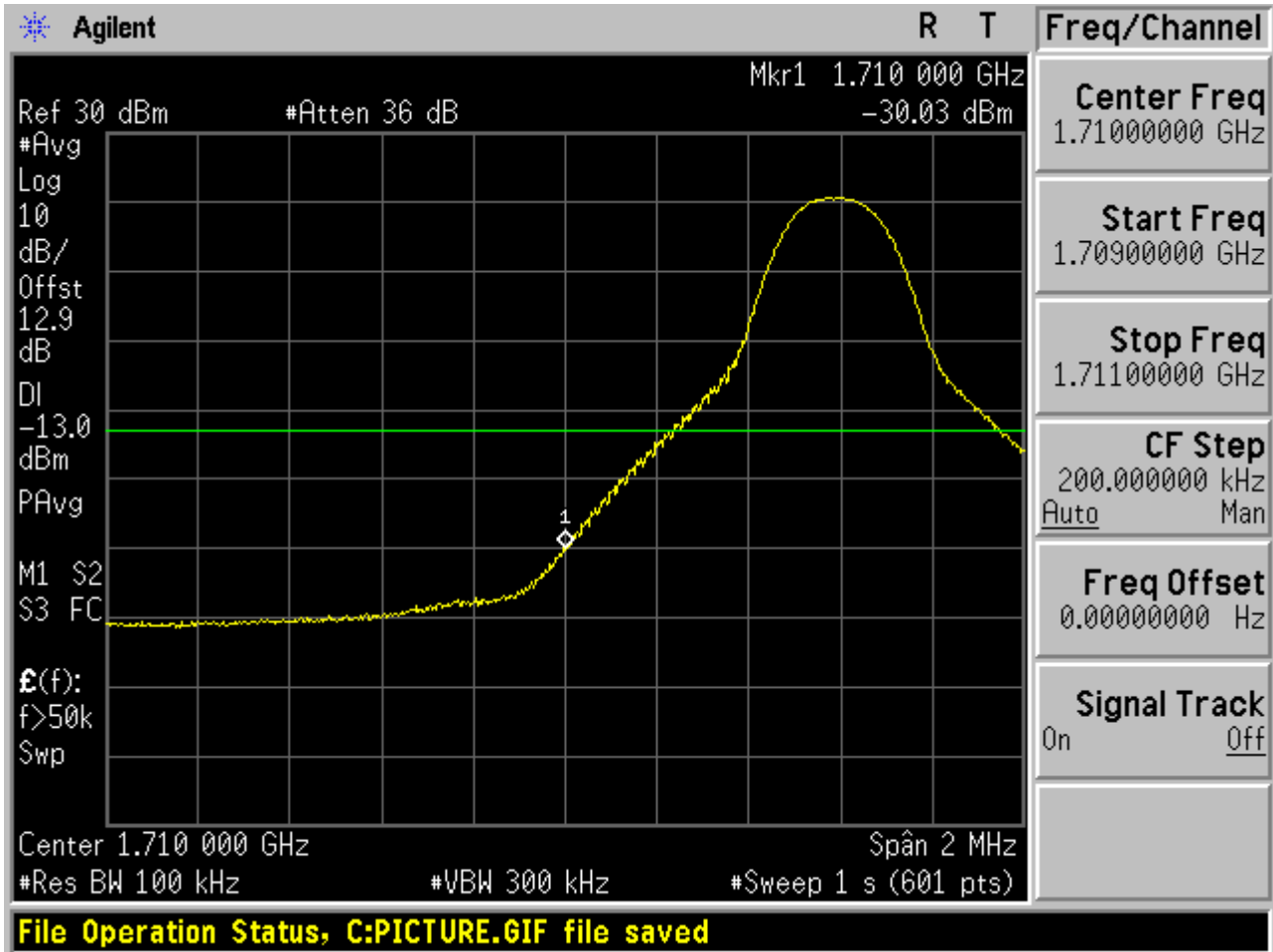




## 2.1.4 Channel Bandwidth = 10 MHz

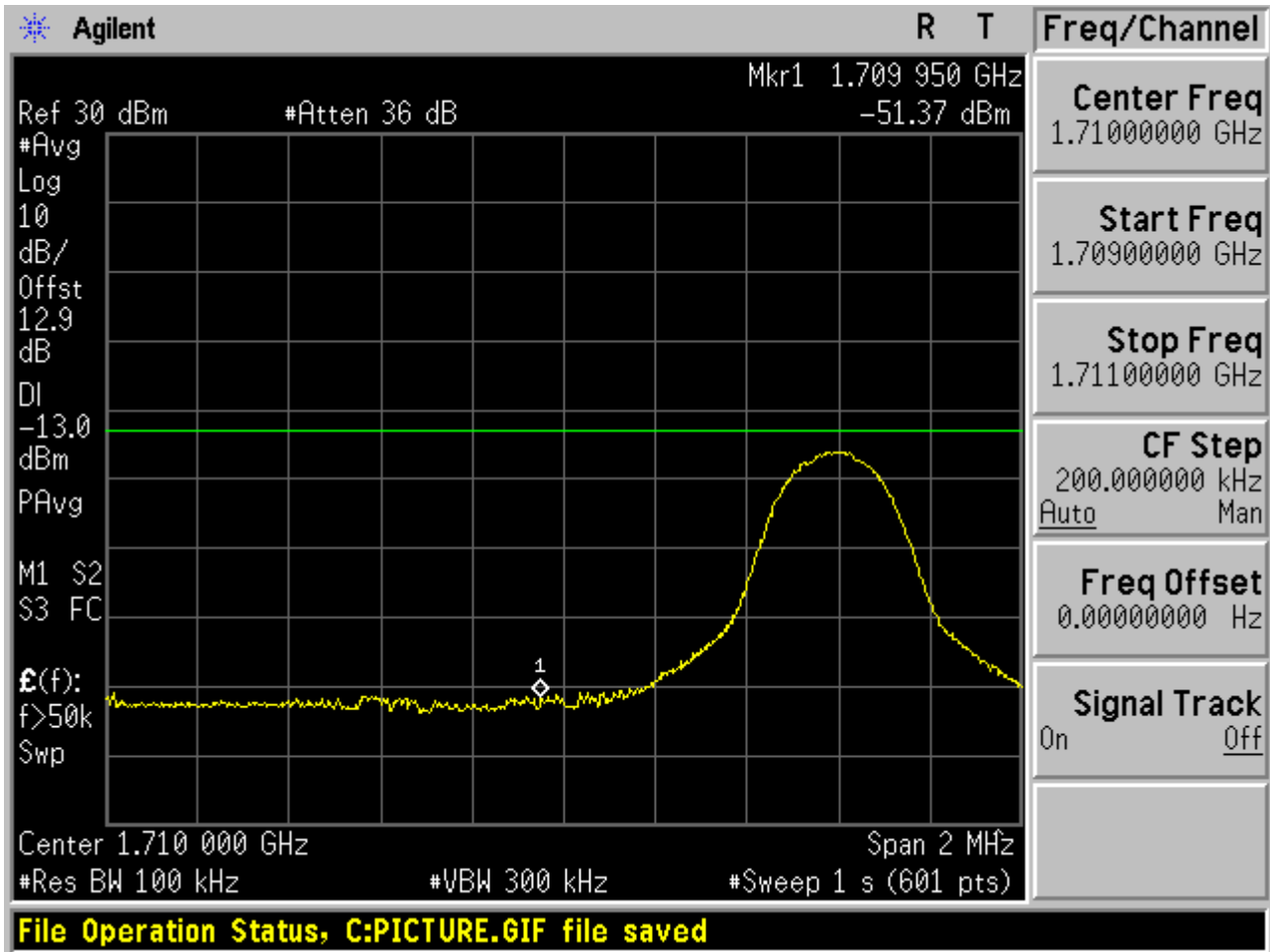
### 2.1.4.1 Channel= B

#### 2.1.4.1.1 QPSK/1RB # 0



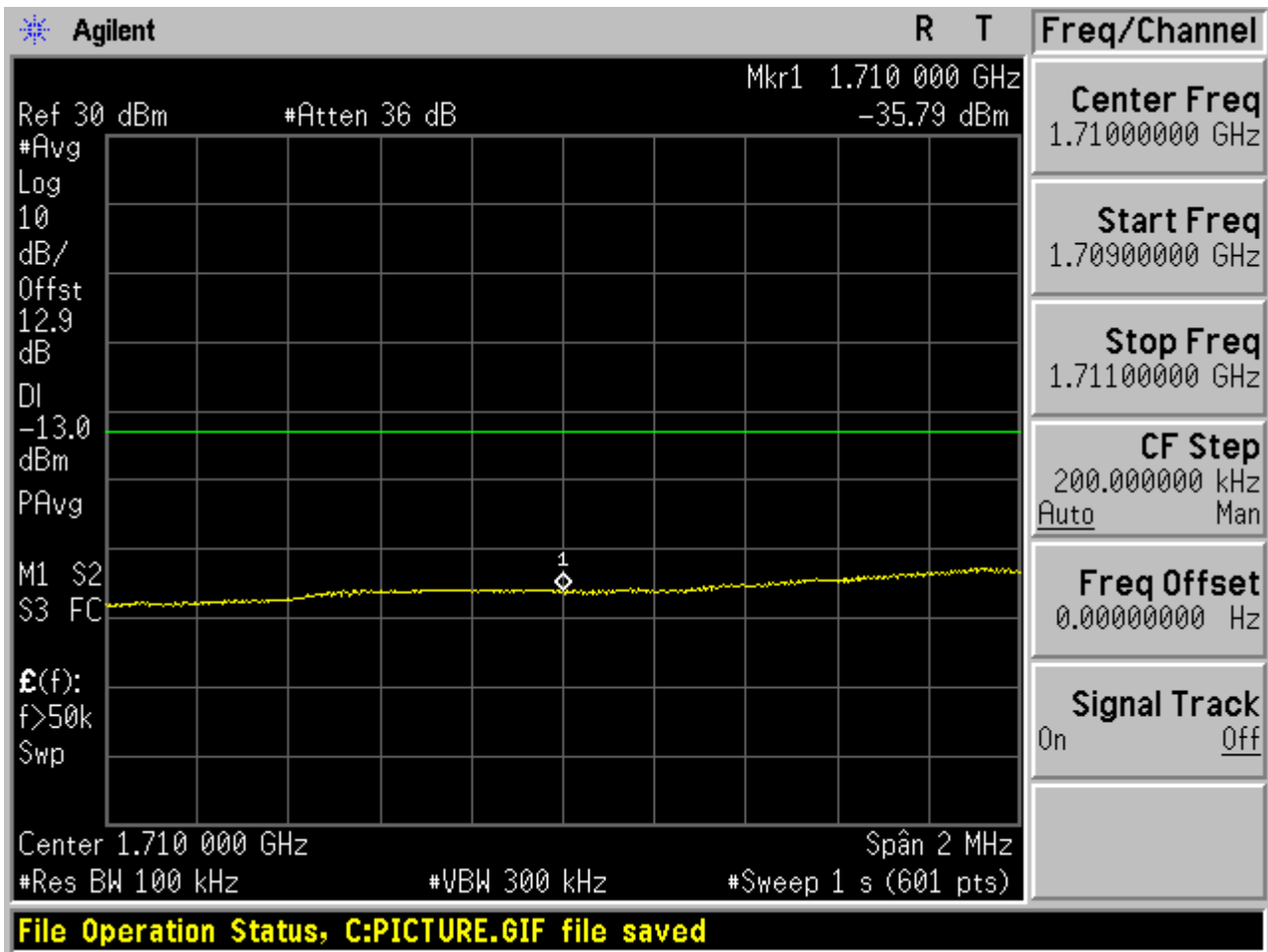


2.1.4.1.2 QPSK/1RB # max



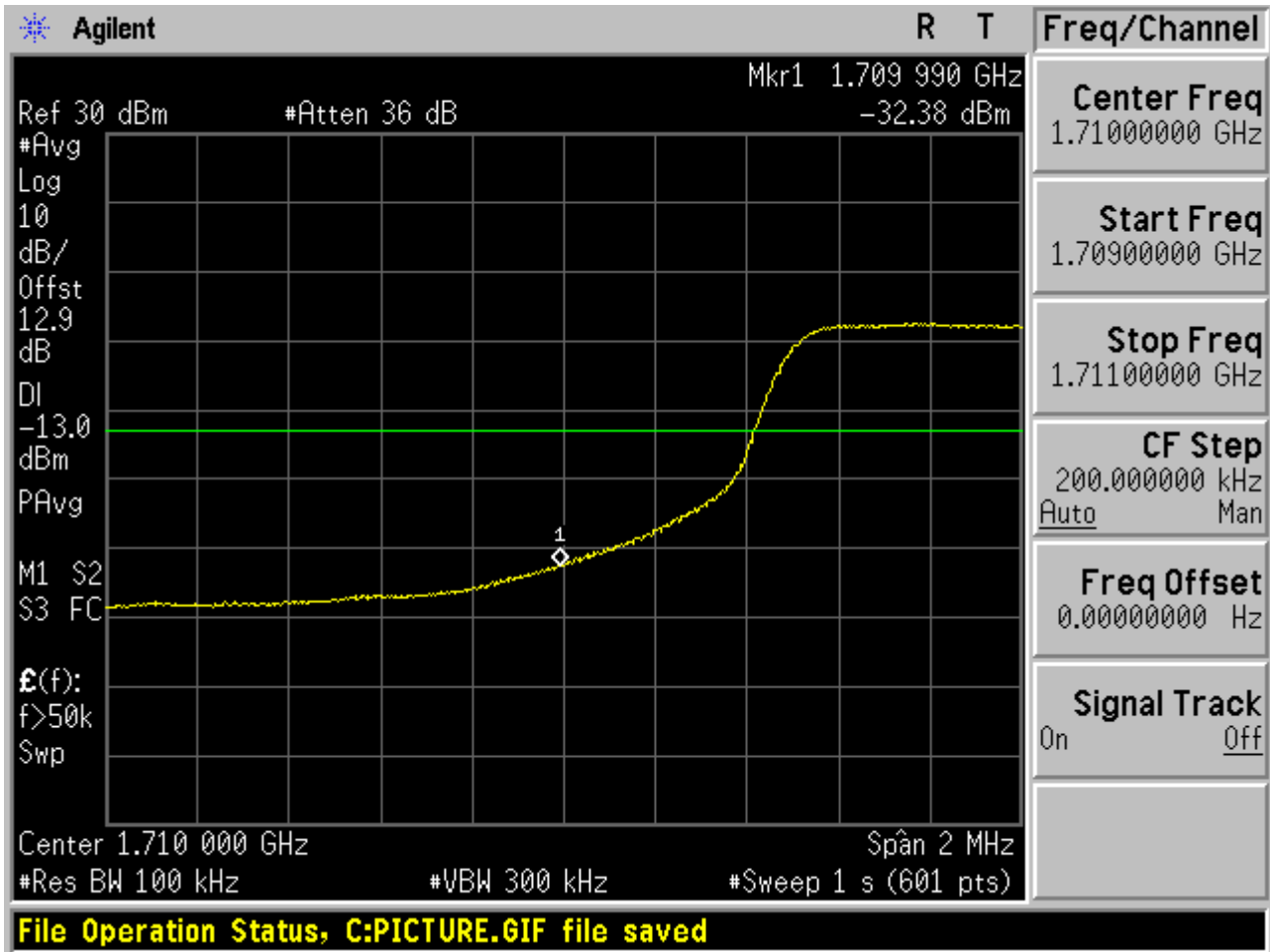


### 2.1.4.1.3 QPSK/non-1RB #mid/2





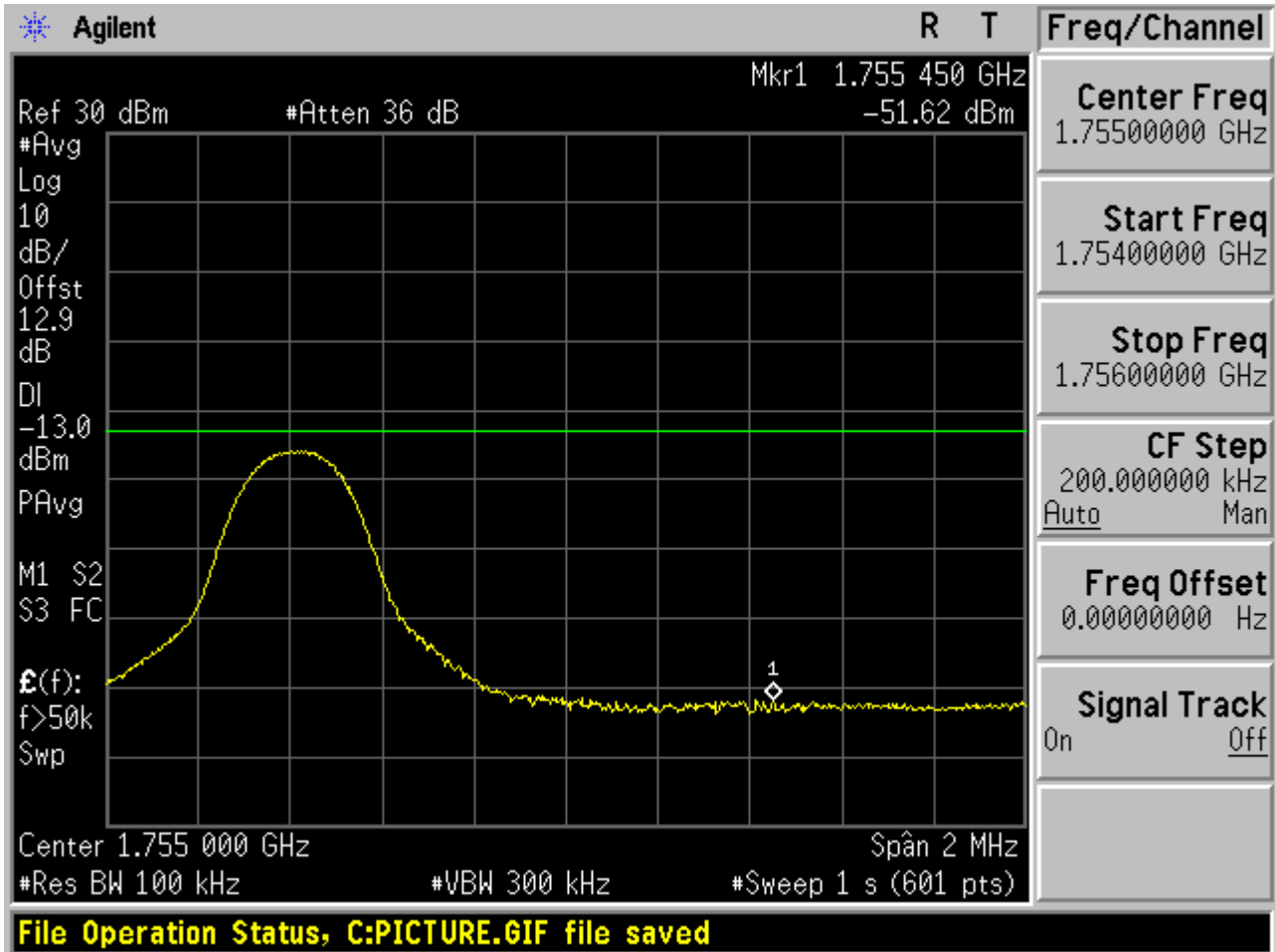
### 2.1.4.1.4 QPSK/full RBs





## 2.1.4.2 Channel= T

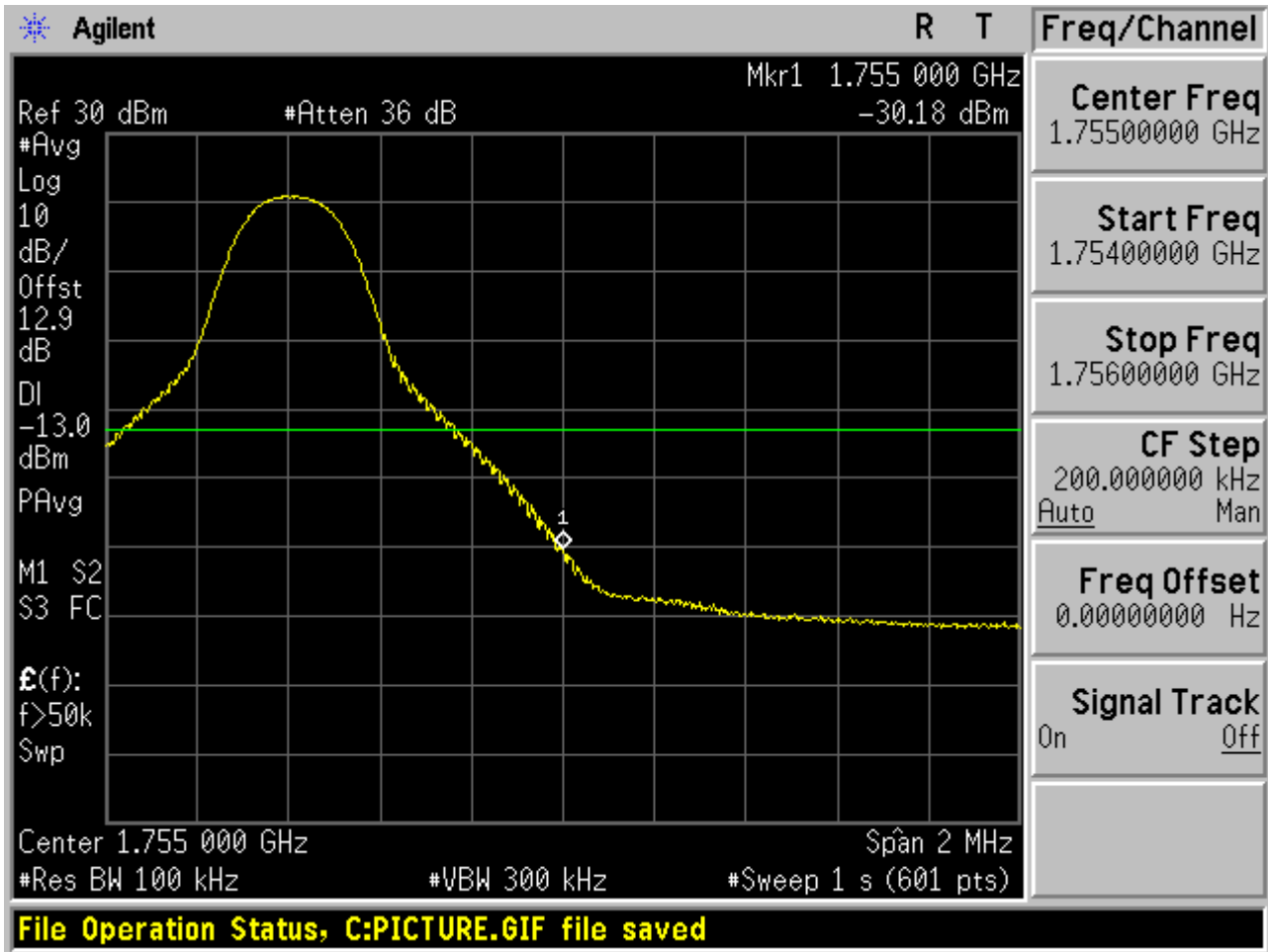
### 2.1.4.2.1 QPSK/1RB # 0





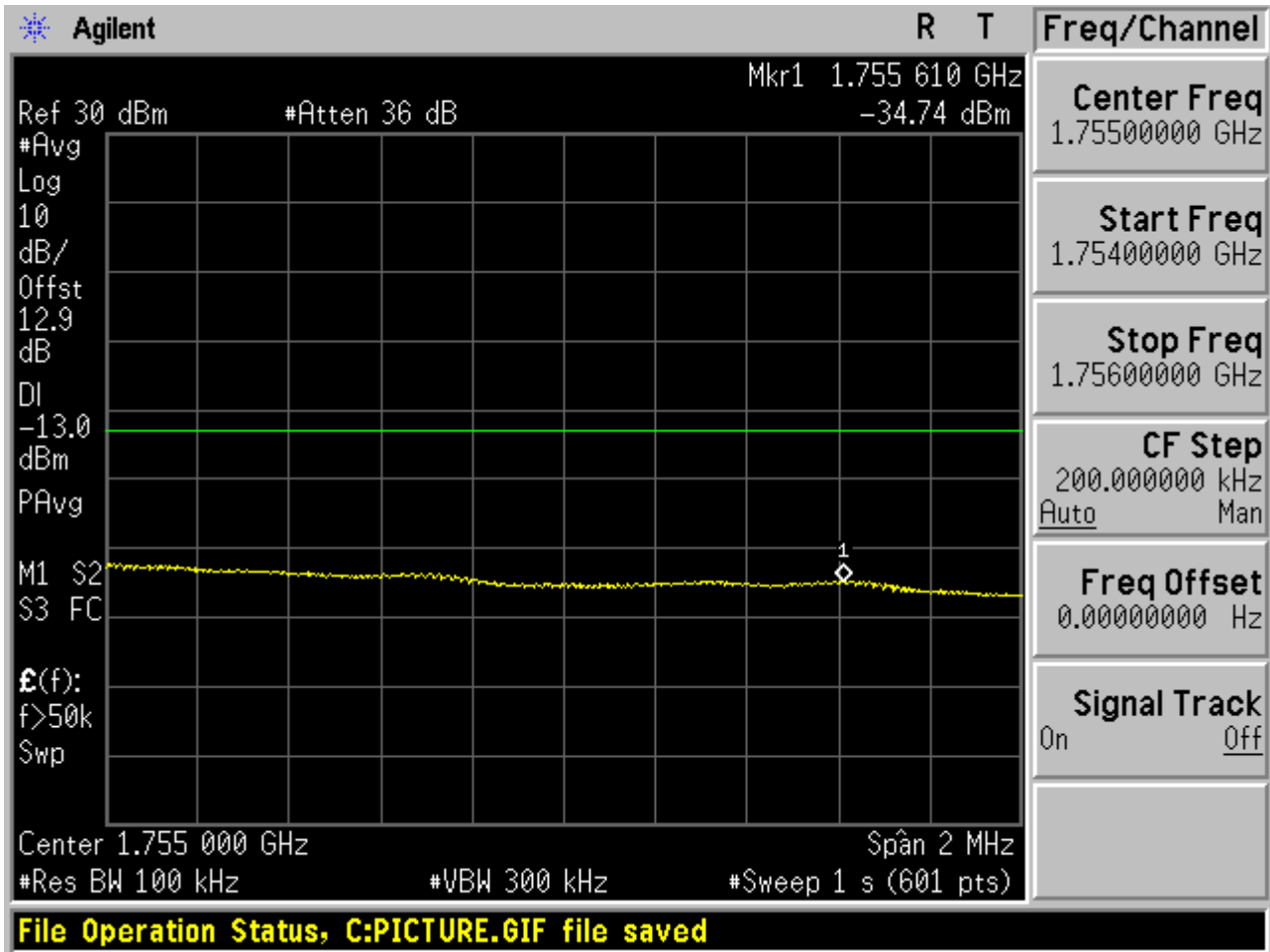


2.1.4.2.2 QPSK/1RB # max



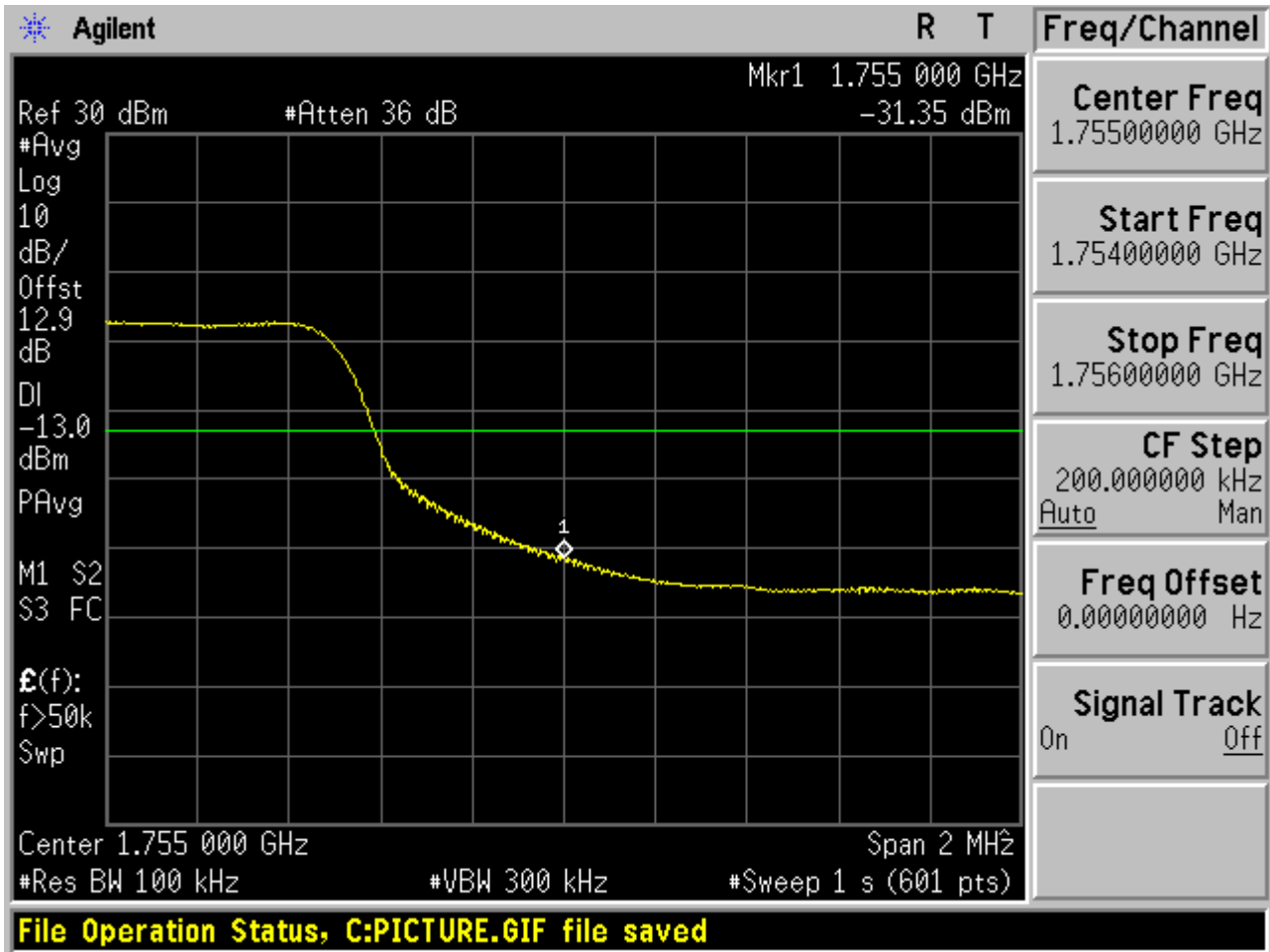


2.1.4.2.3 QPSK/non-1RB #mid/2





### 2.1.4.2.4 QPSK/full RBs

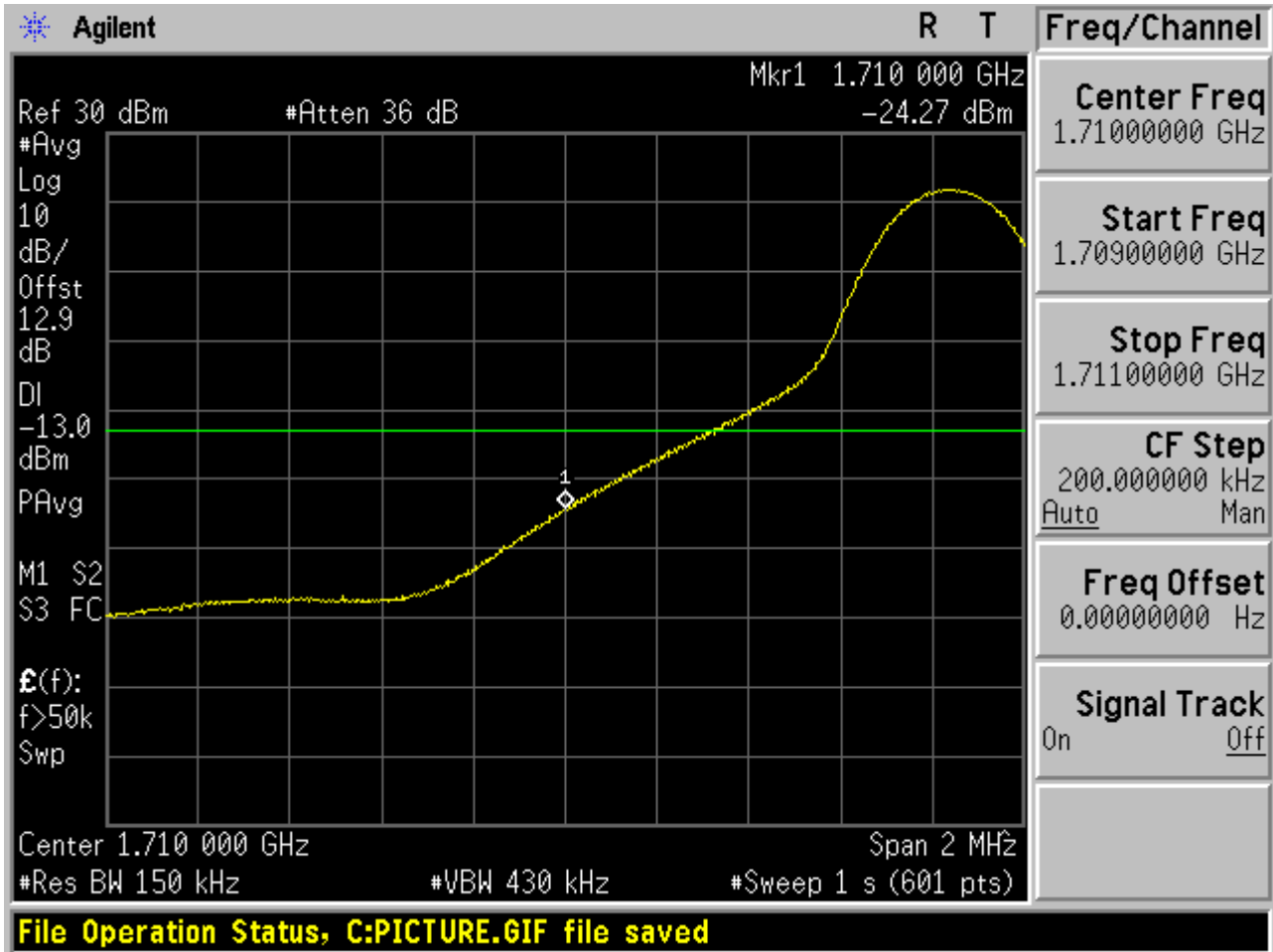




## 2.1.5 Channel Bandwidth = 15 MHz

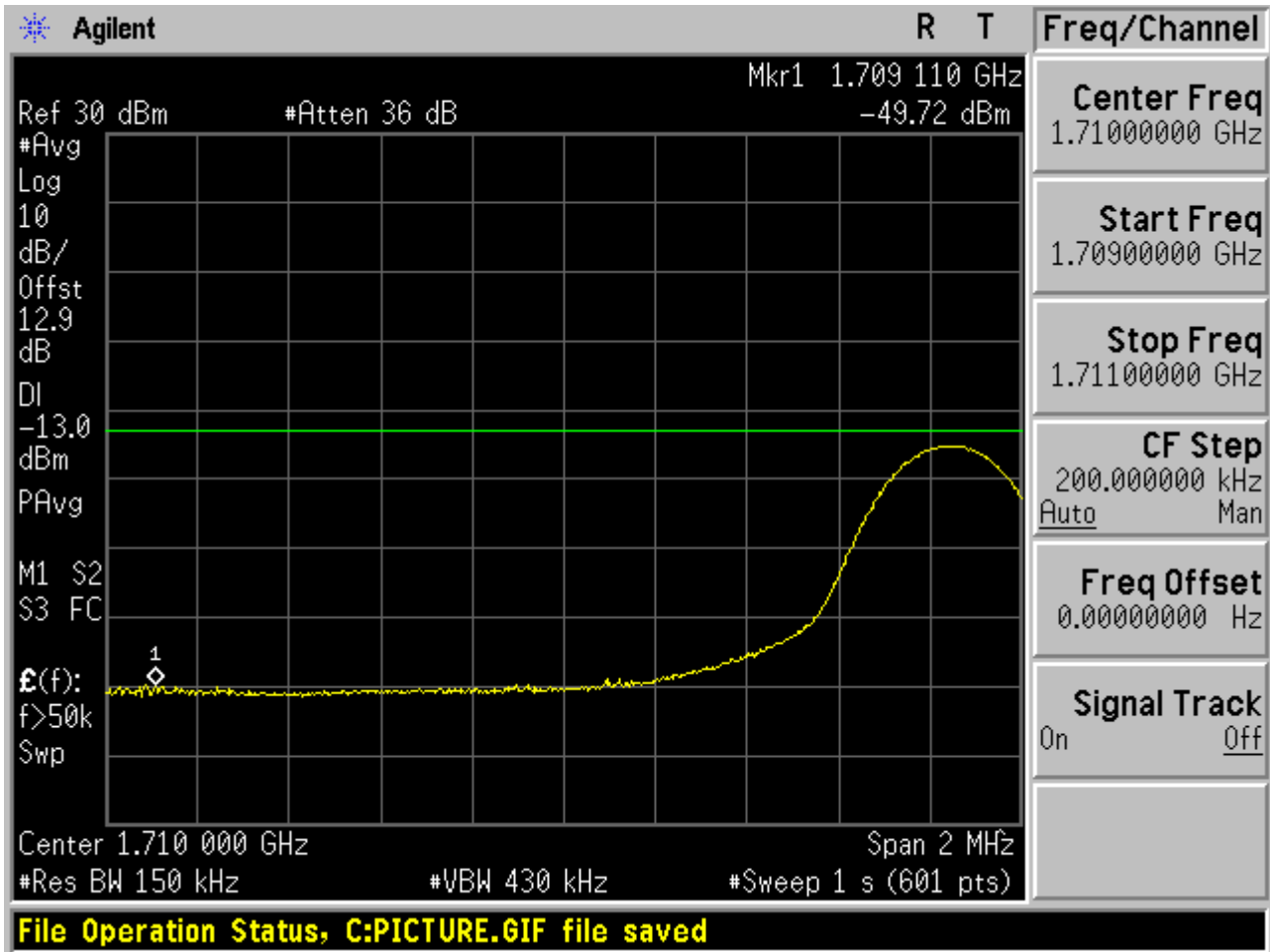
### 2.1.5.1 Channel= B

#### 2.1.5.1.1 QPSK/1RB # 0



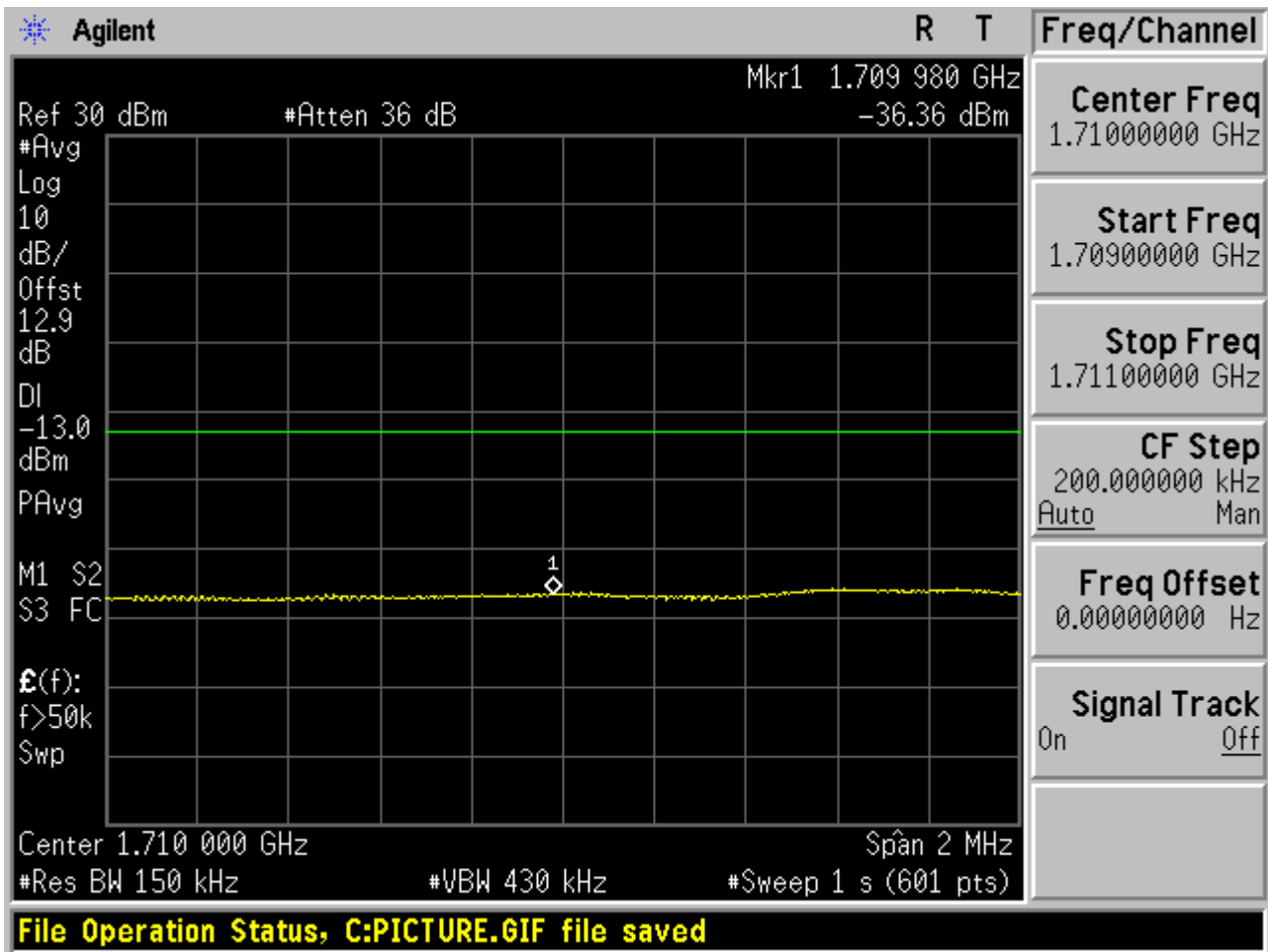


2.1.5.1.2 QPSK/1RB # max



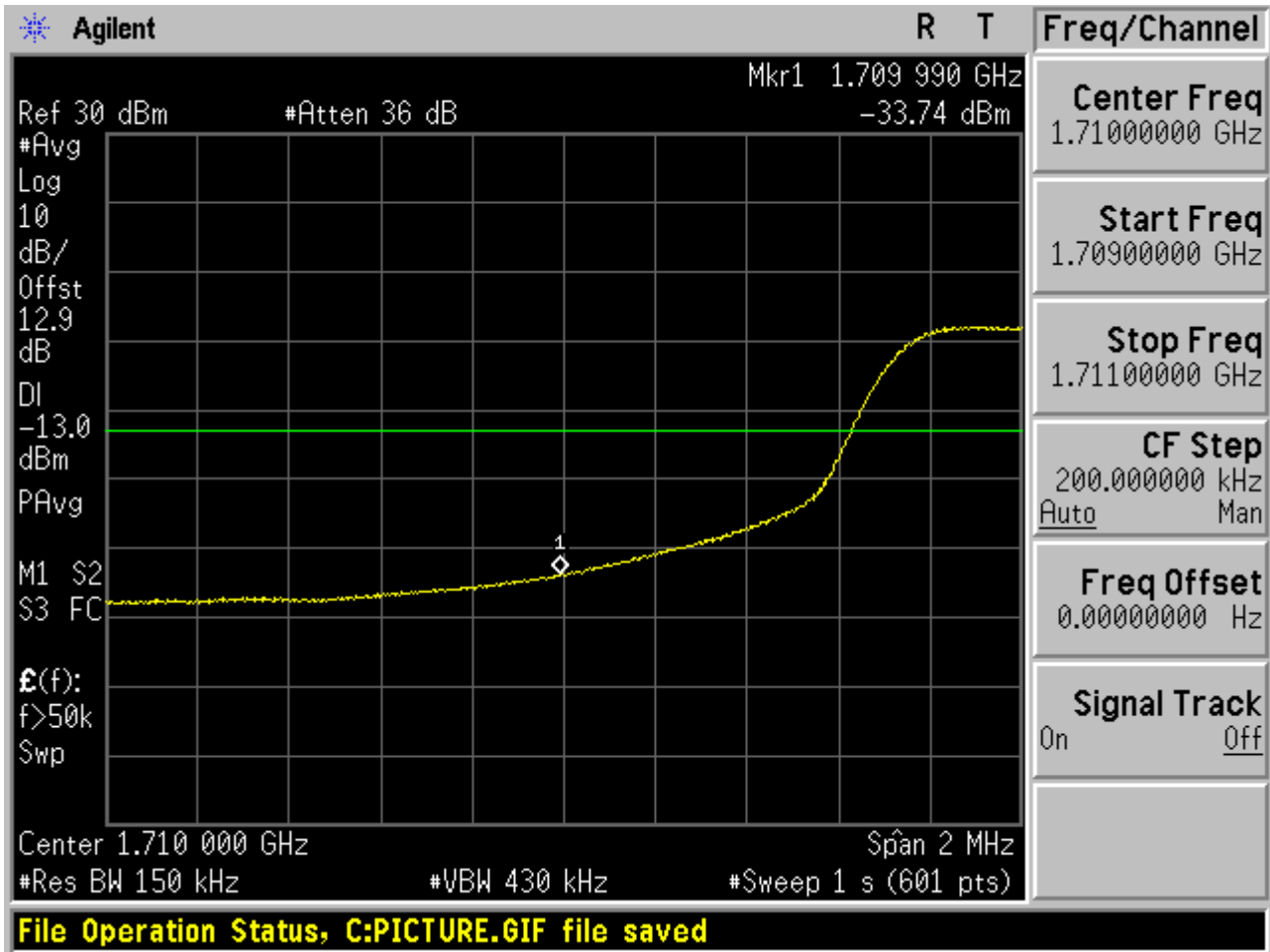


### 2.1.5.1.3 QPSK/non-1RB #mid/2





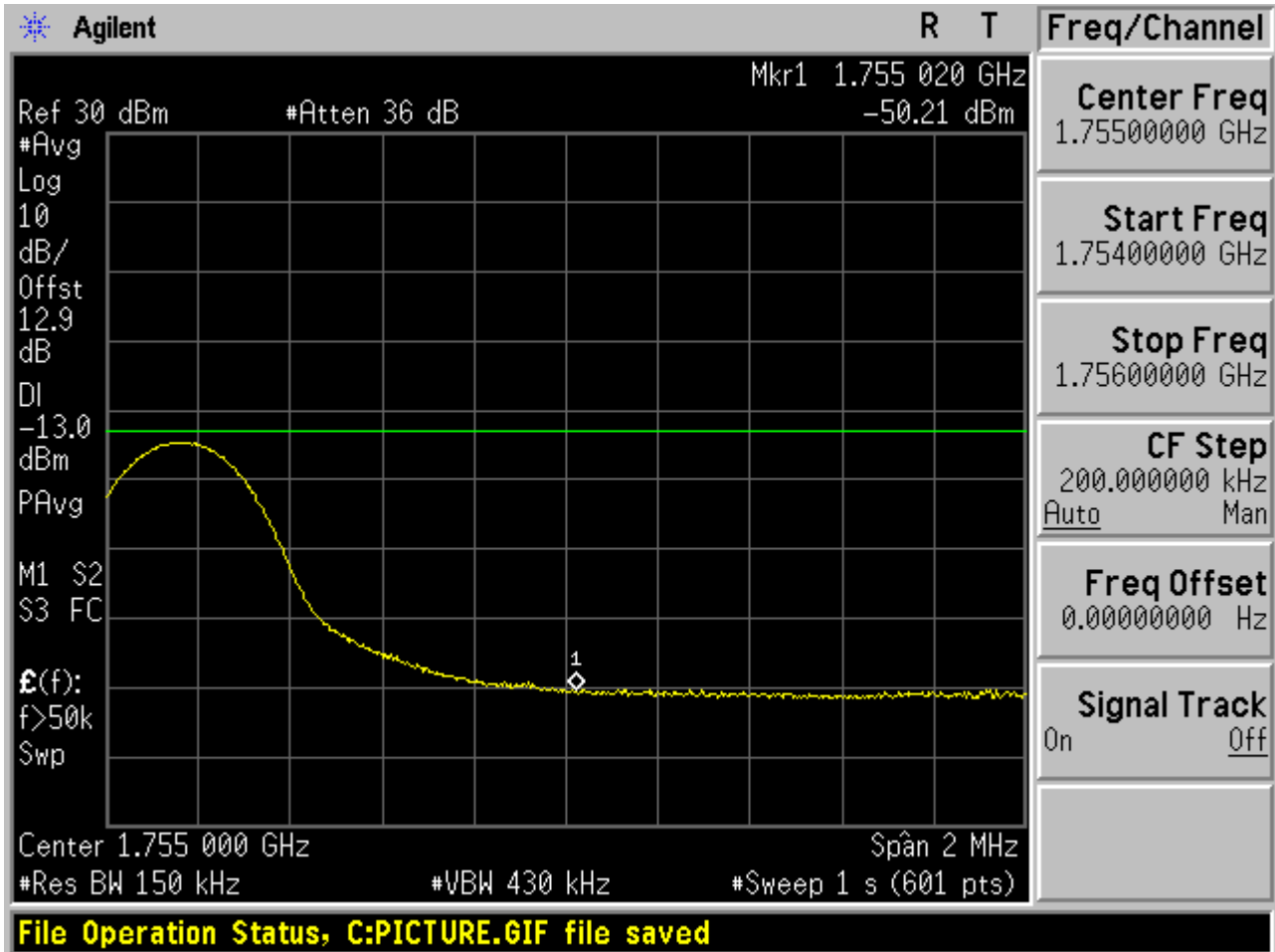
### 2.1.5.1.4 QPSK/full RBs





## 2.1.5.2 Channel= T

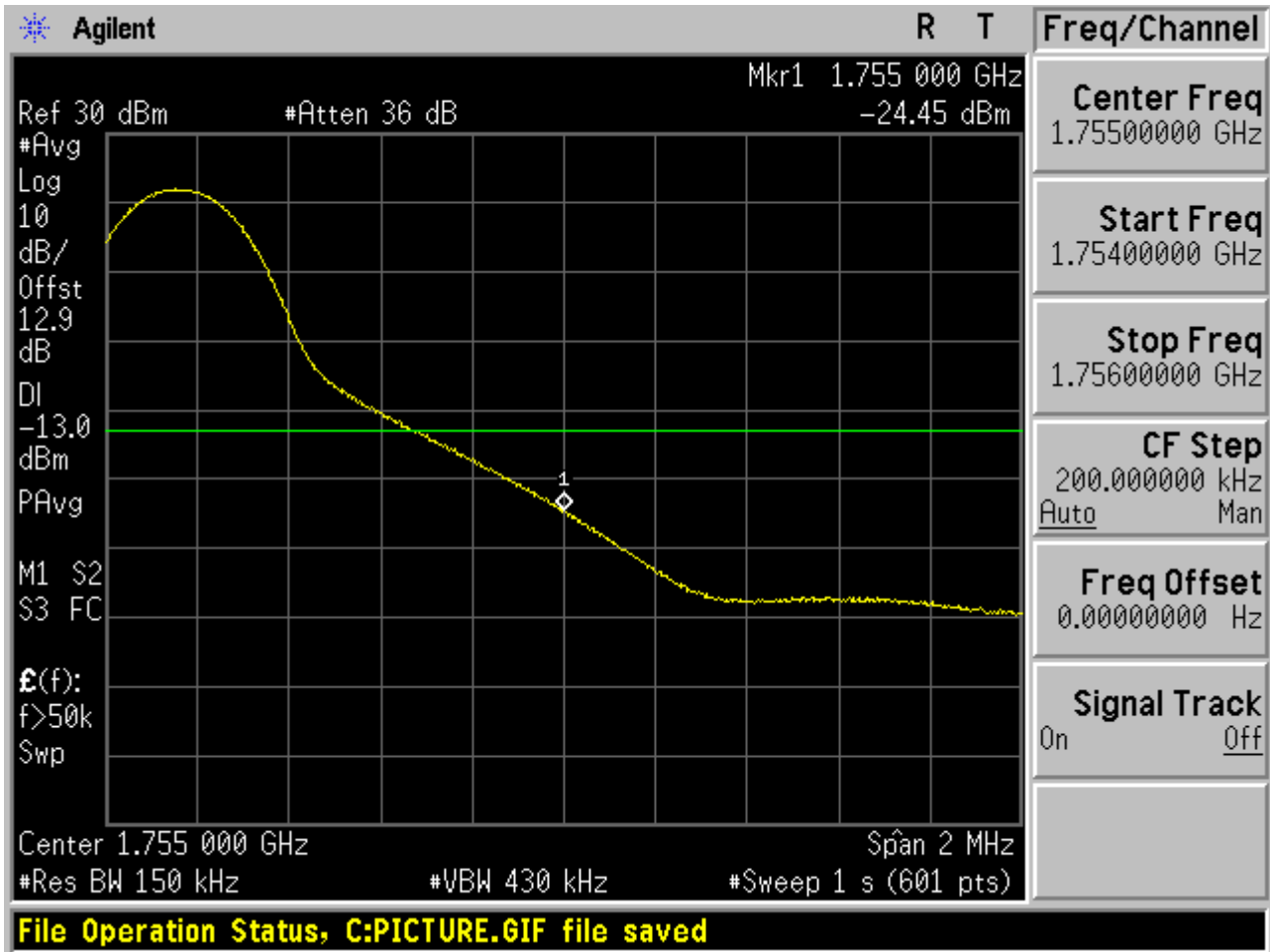
### 2.1.5.2.1 QPSK/1RB # 0





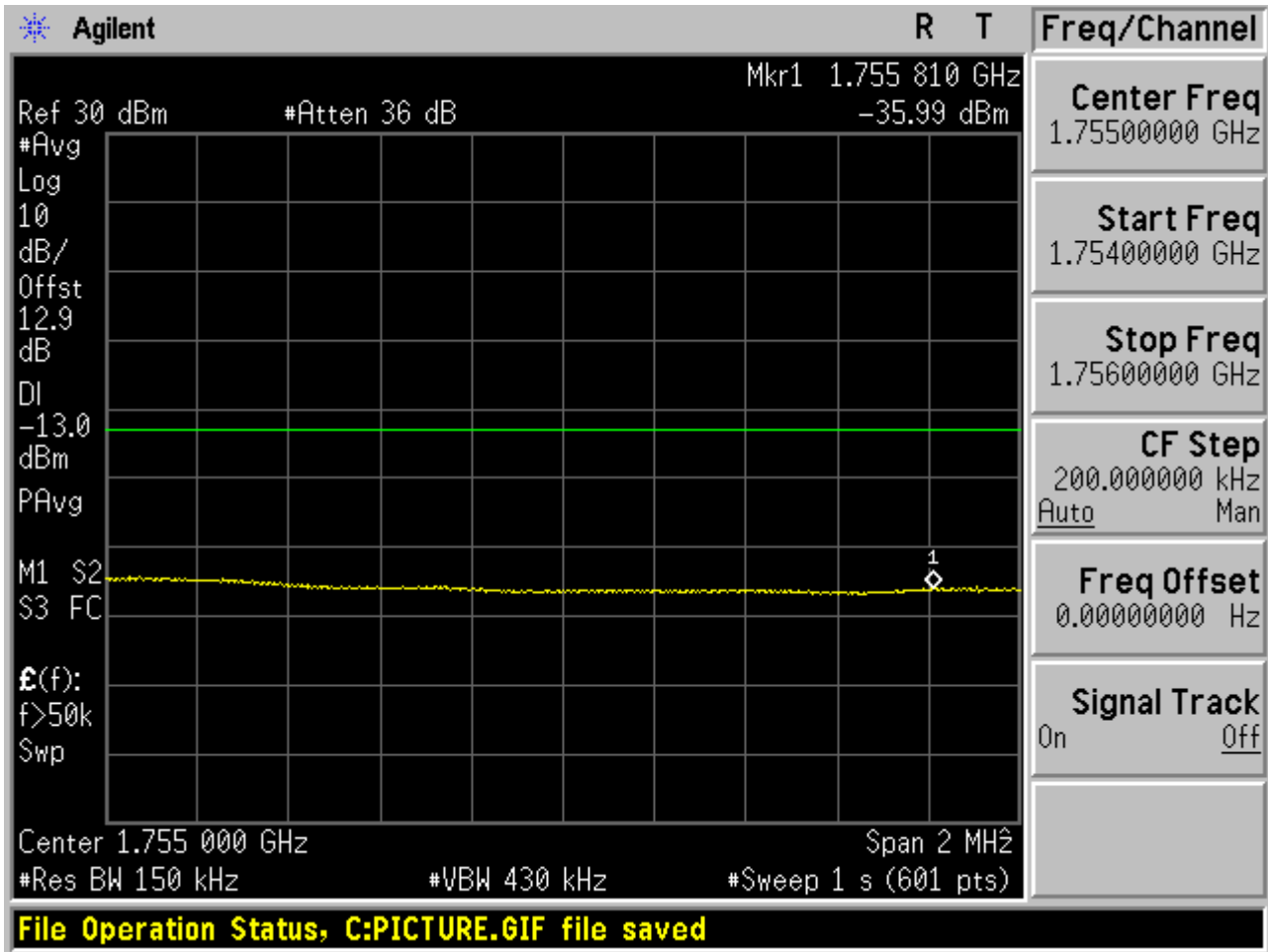


2.1.5.2.2 QPSK/1RB # max



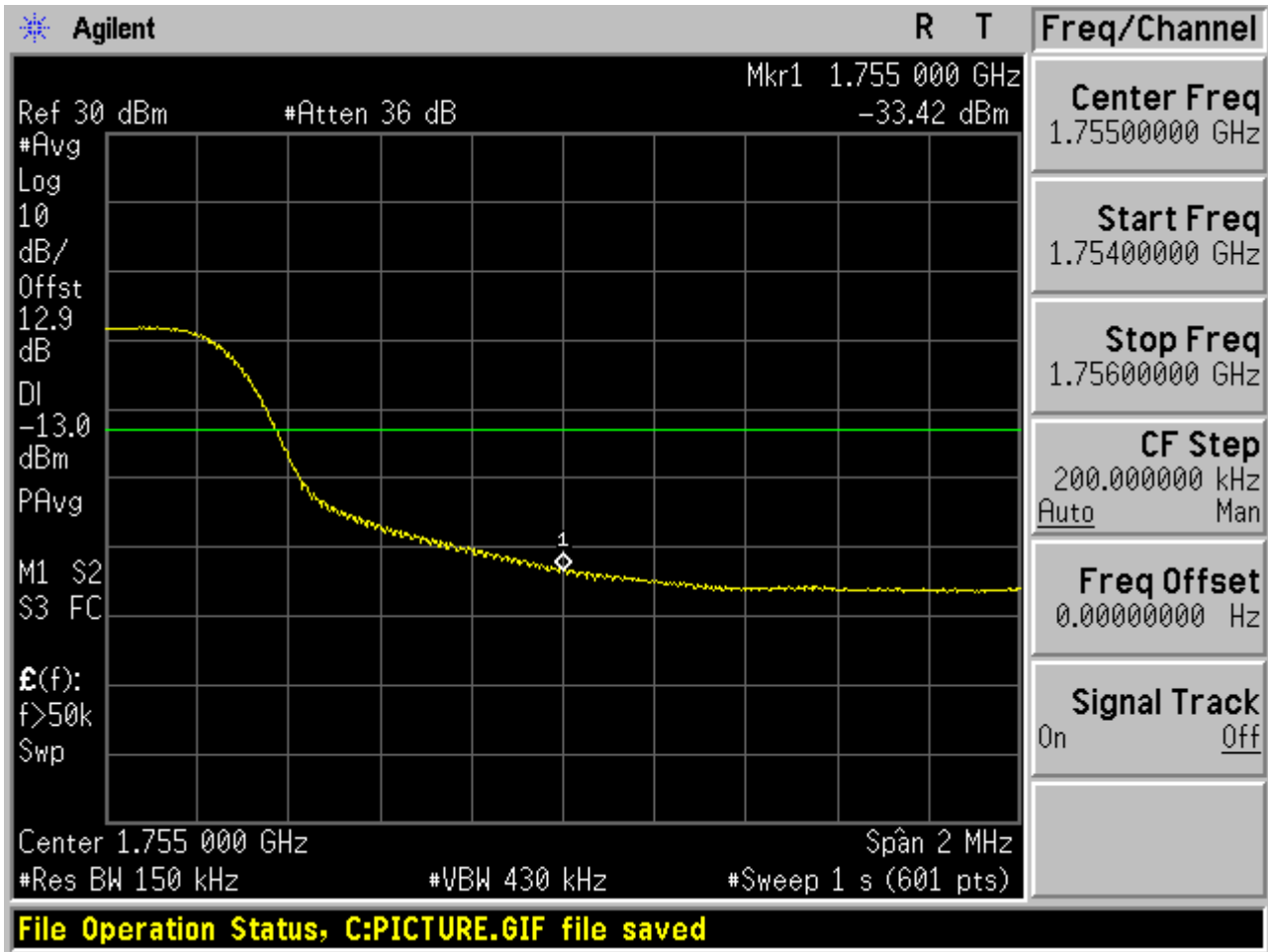


2.1.5.2.3 QPSK/non-1RB #mid/2





### 2.1.5.2.4 QPSK/full RBs

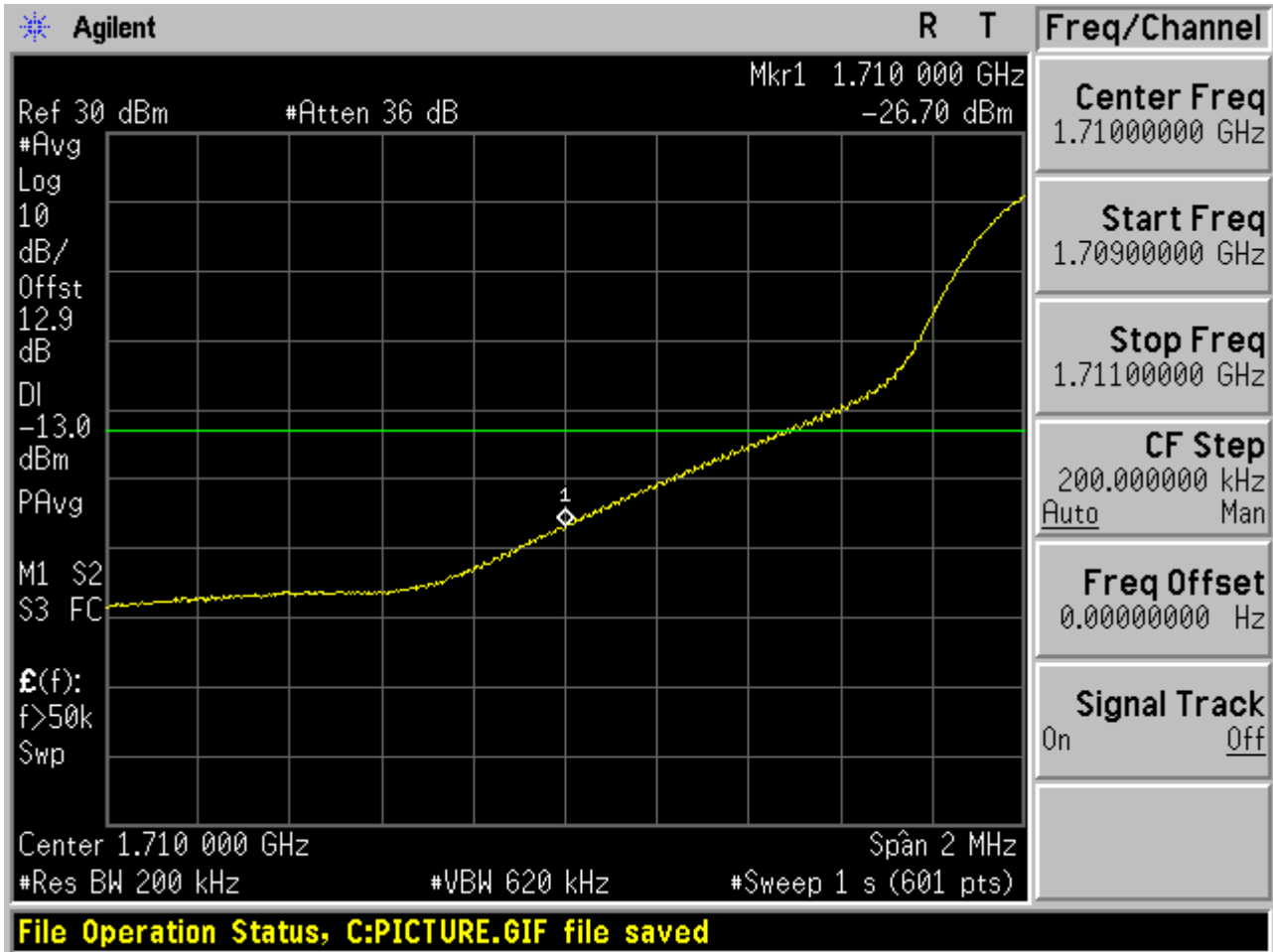




## 2.1.6 Channel Bandwidth = 20 MHz

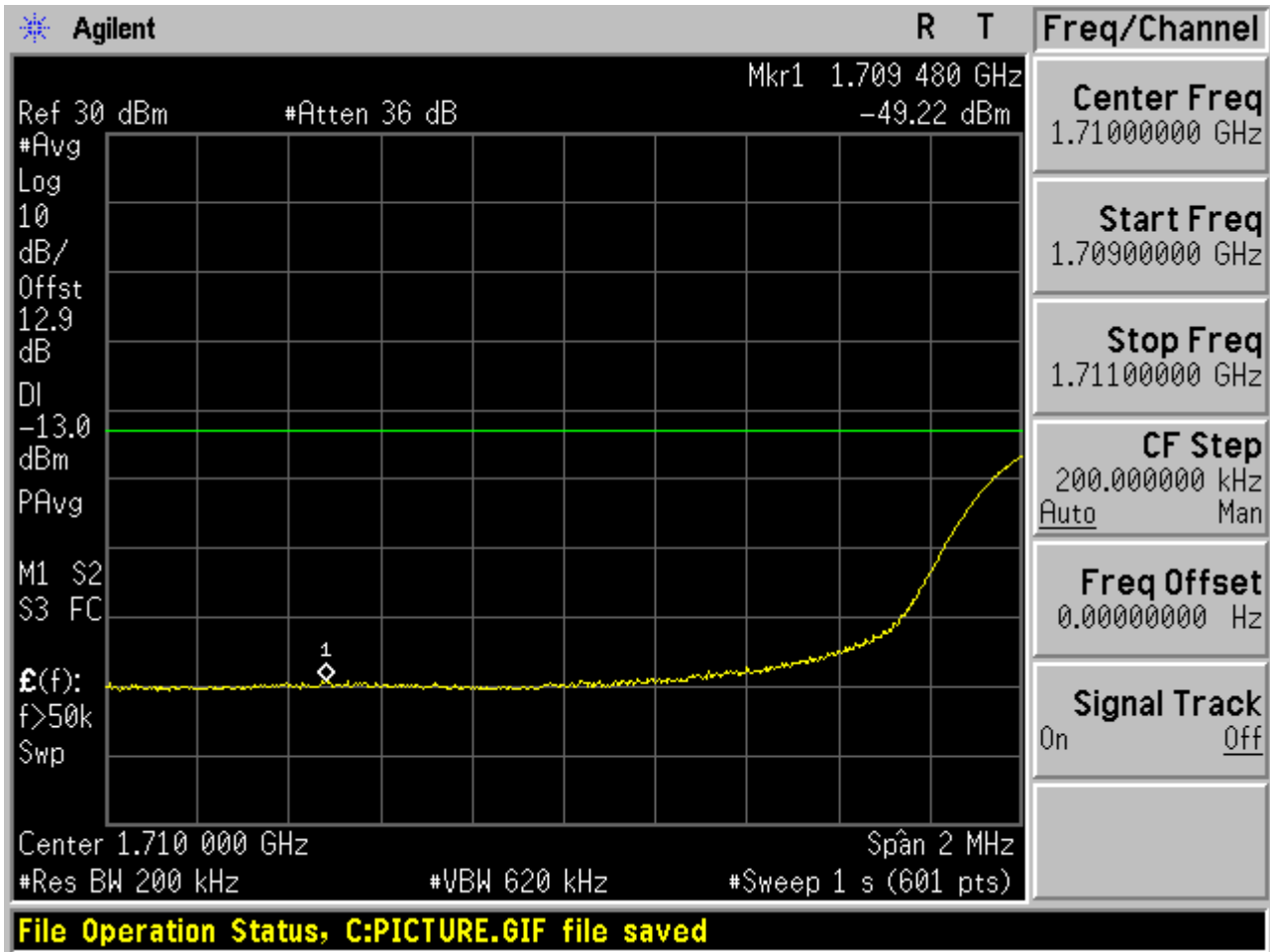
### 2.1.6.1 Channel= B

#### 2.1.6.1.1 QPSK/1RB # 0



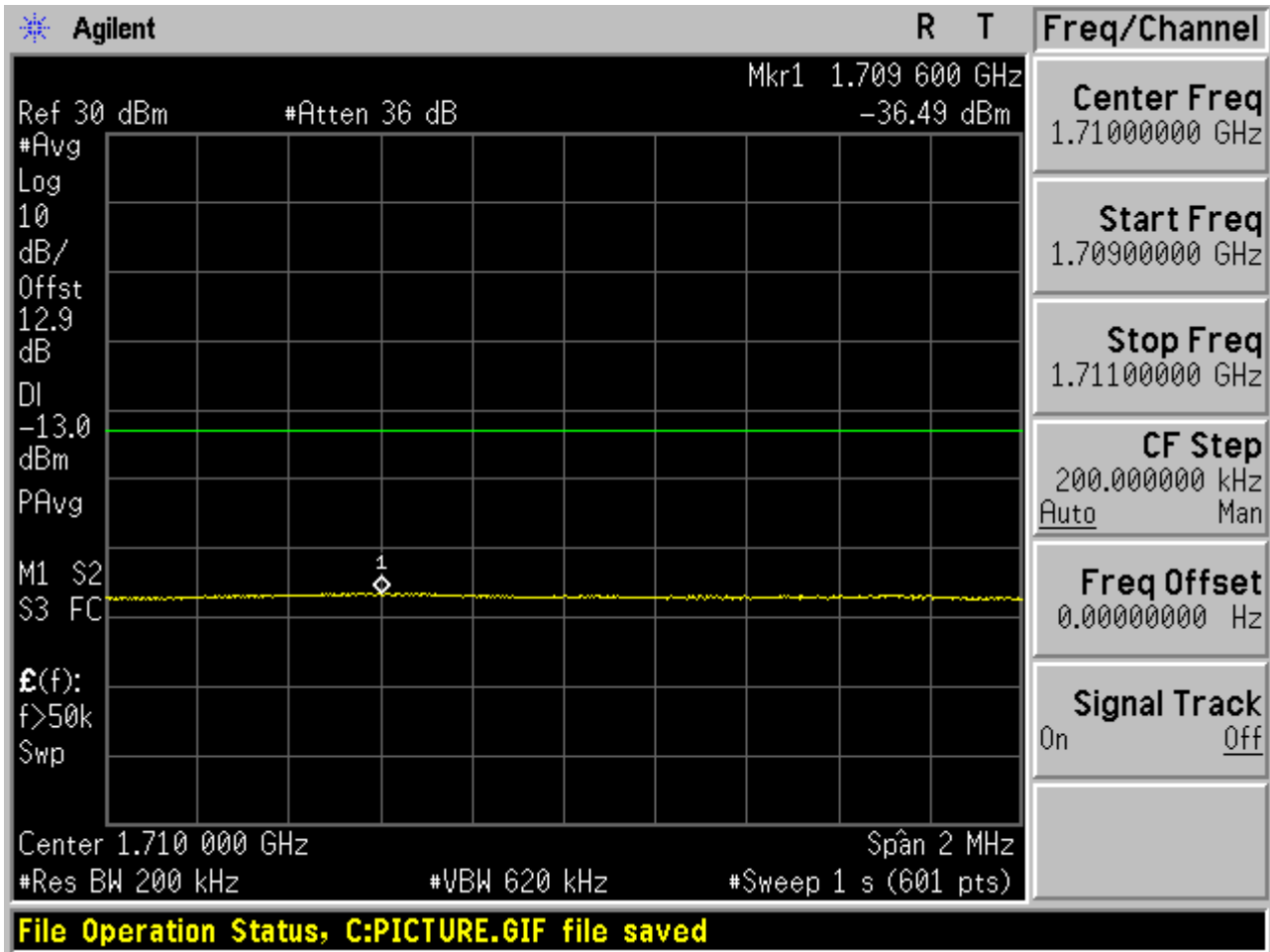


2.1.6.1.2 QPSK/1RB # max



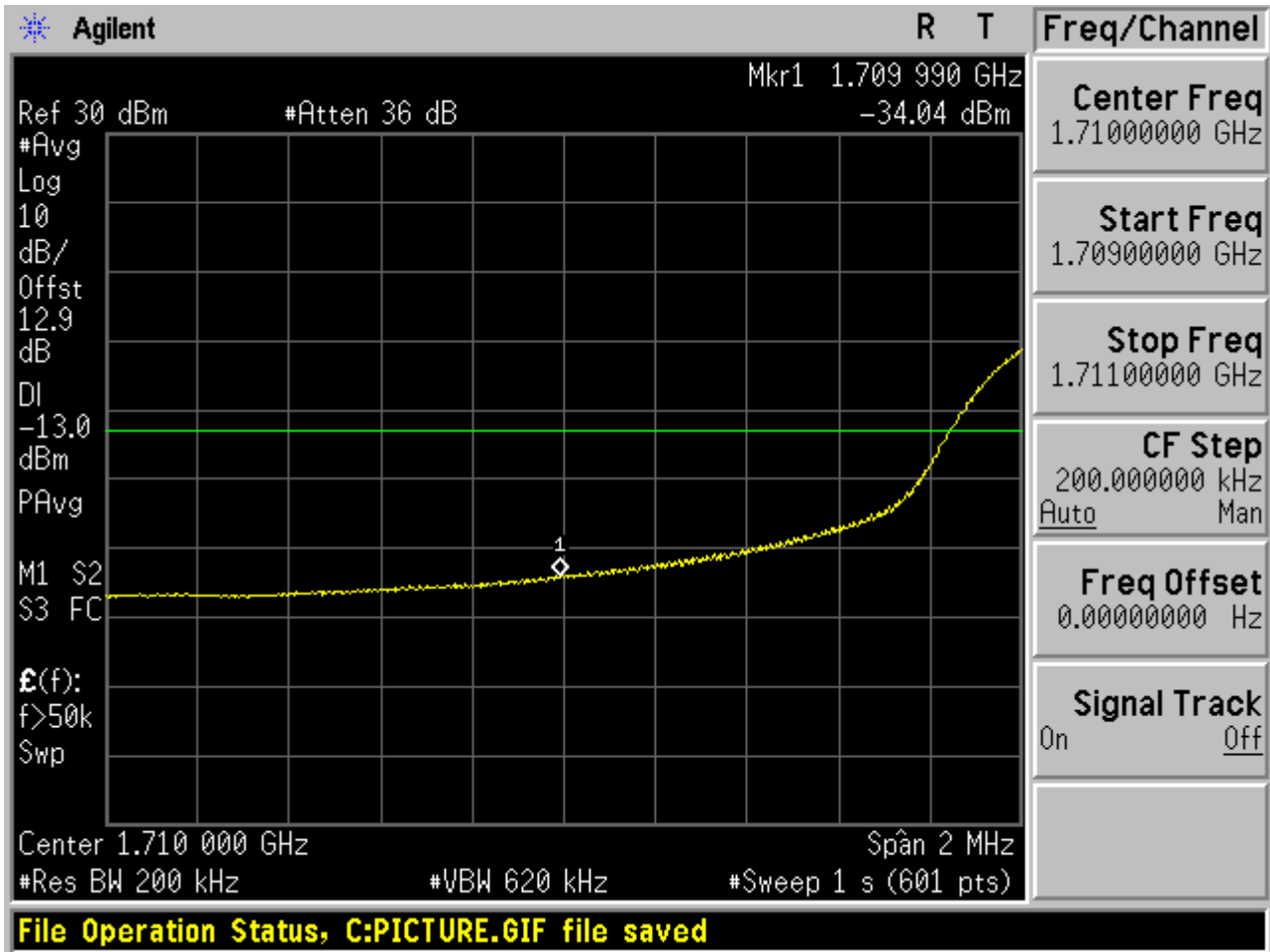


2.1.6.1.3 QPSK/non-1RB #mid/2





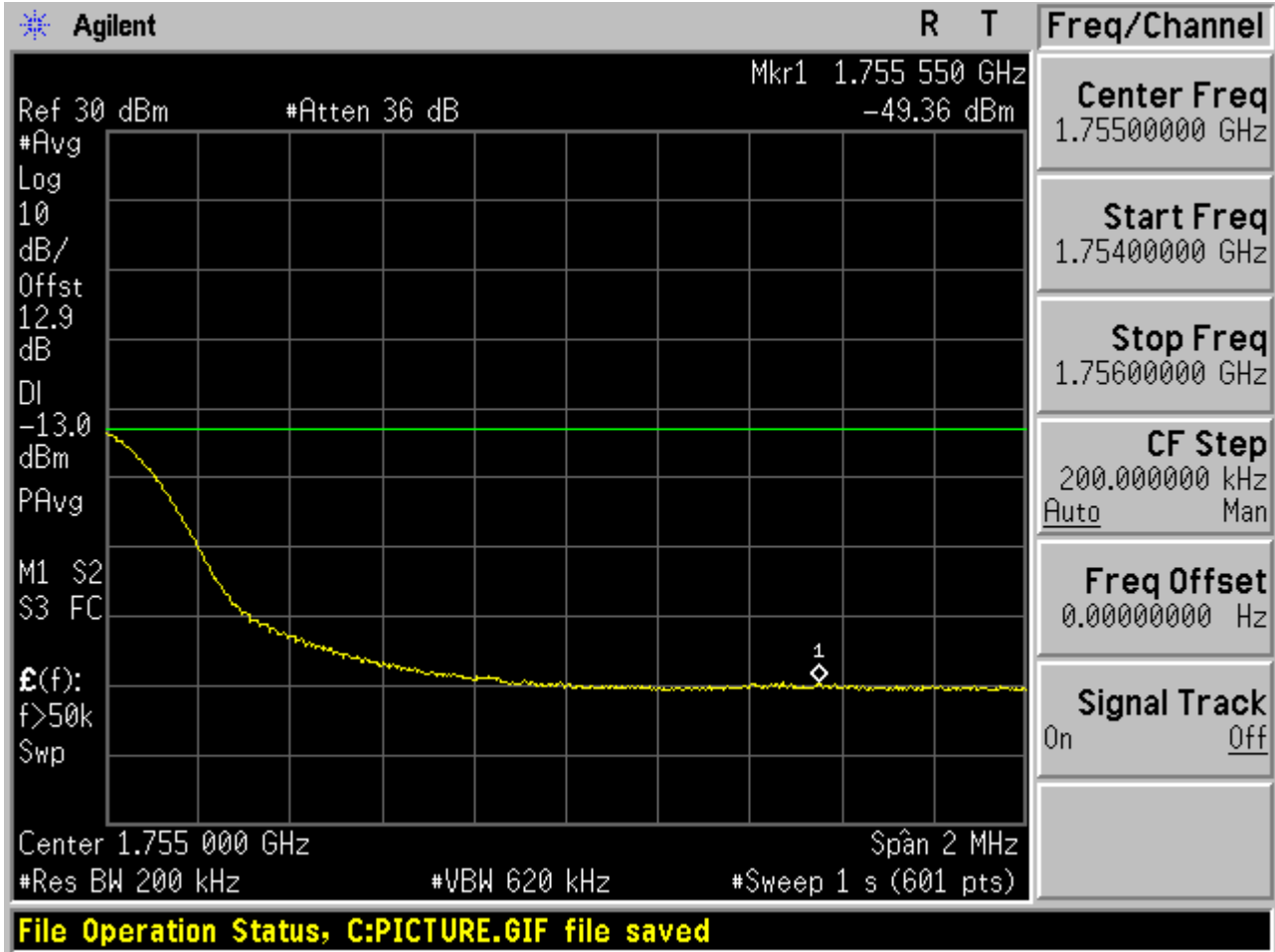
### 2.1.6.1.4 QPSK/full RBs





## 2.1.6.2 Channel= T

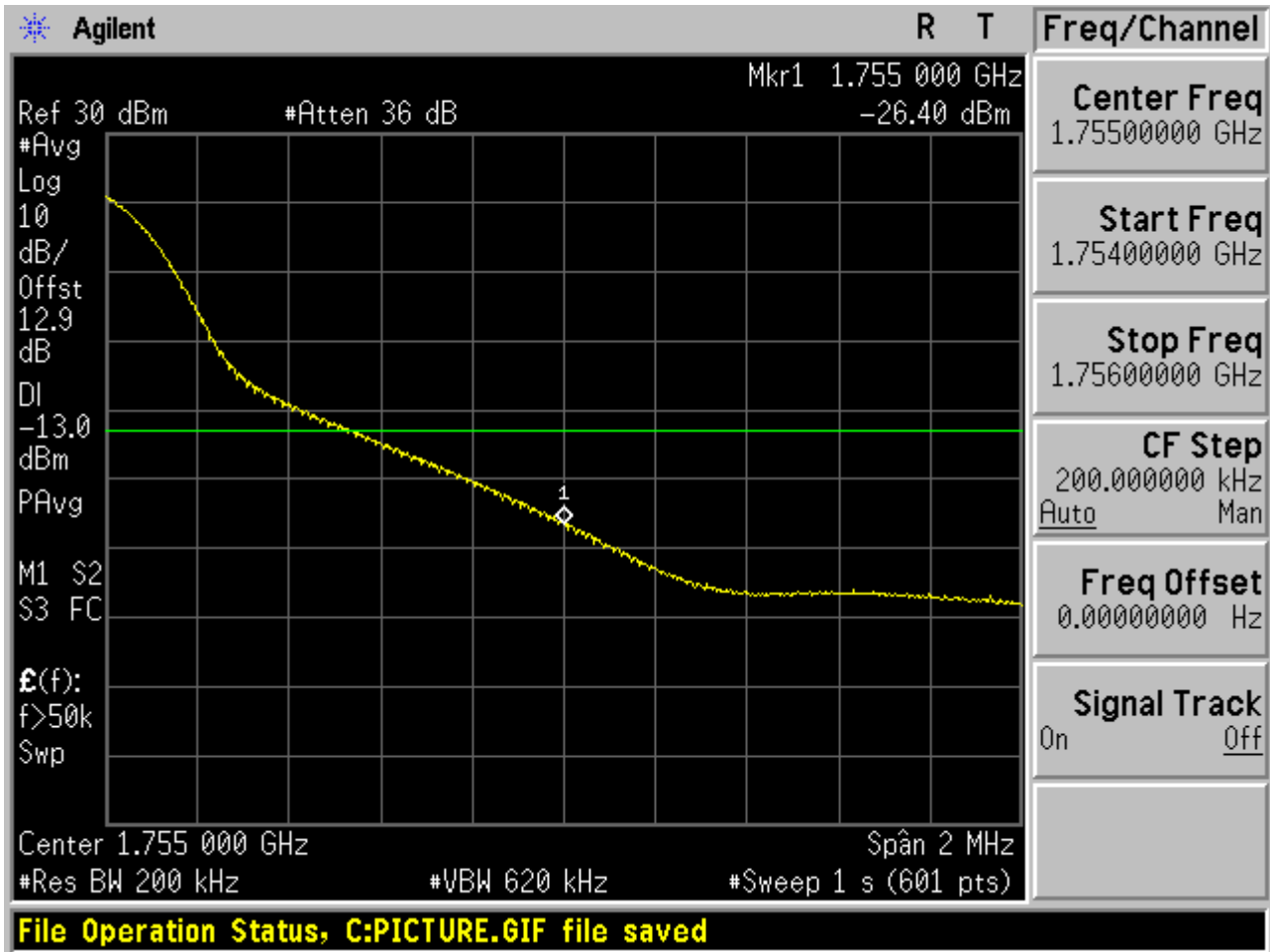
### 2.1.6.2.1 QPSK/1RB # 0





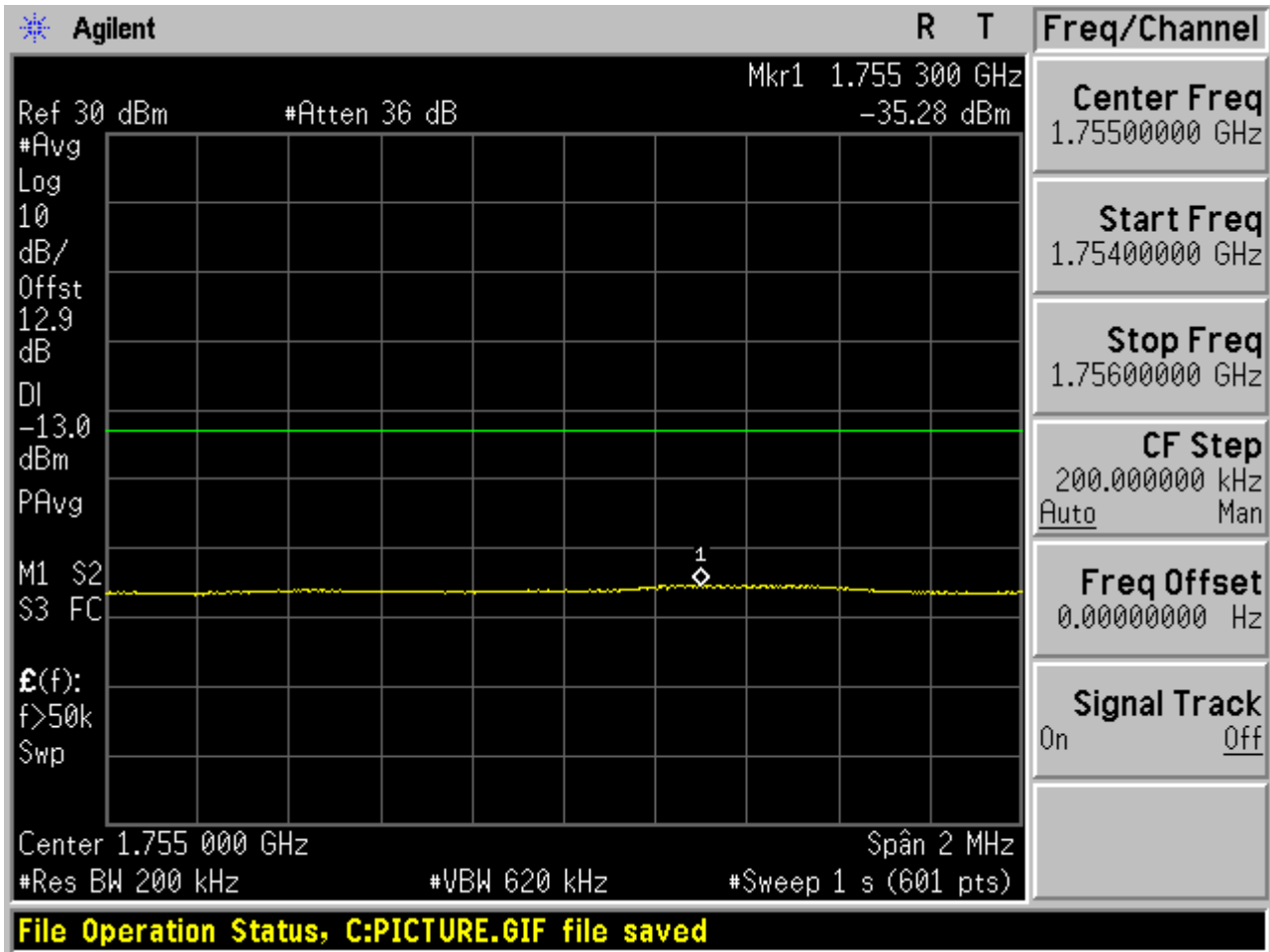


2.1.6.2.2 QPSK/1RB # max



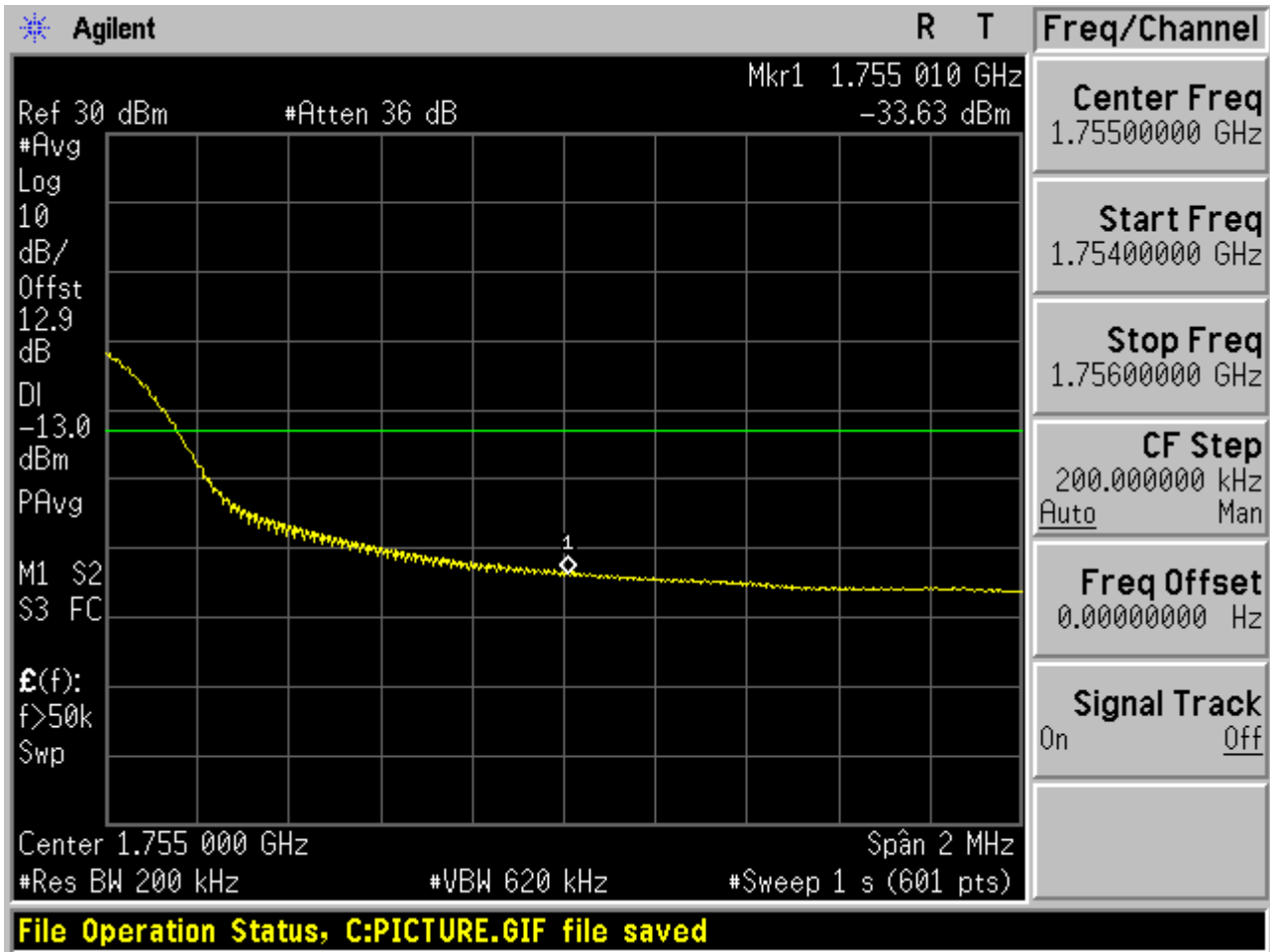


2.1.6.2.3 QPSK/non-1RB #mid/2





### 2.1.6.2.4 QPSK/full RBs



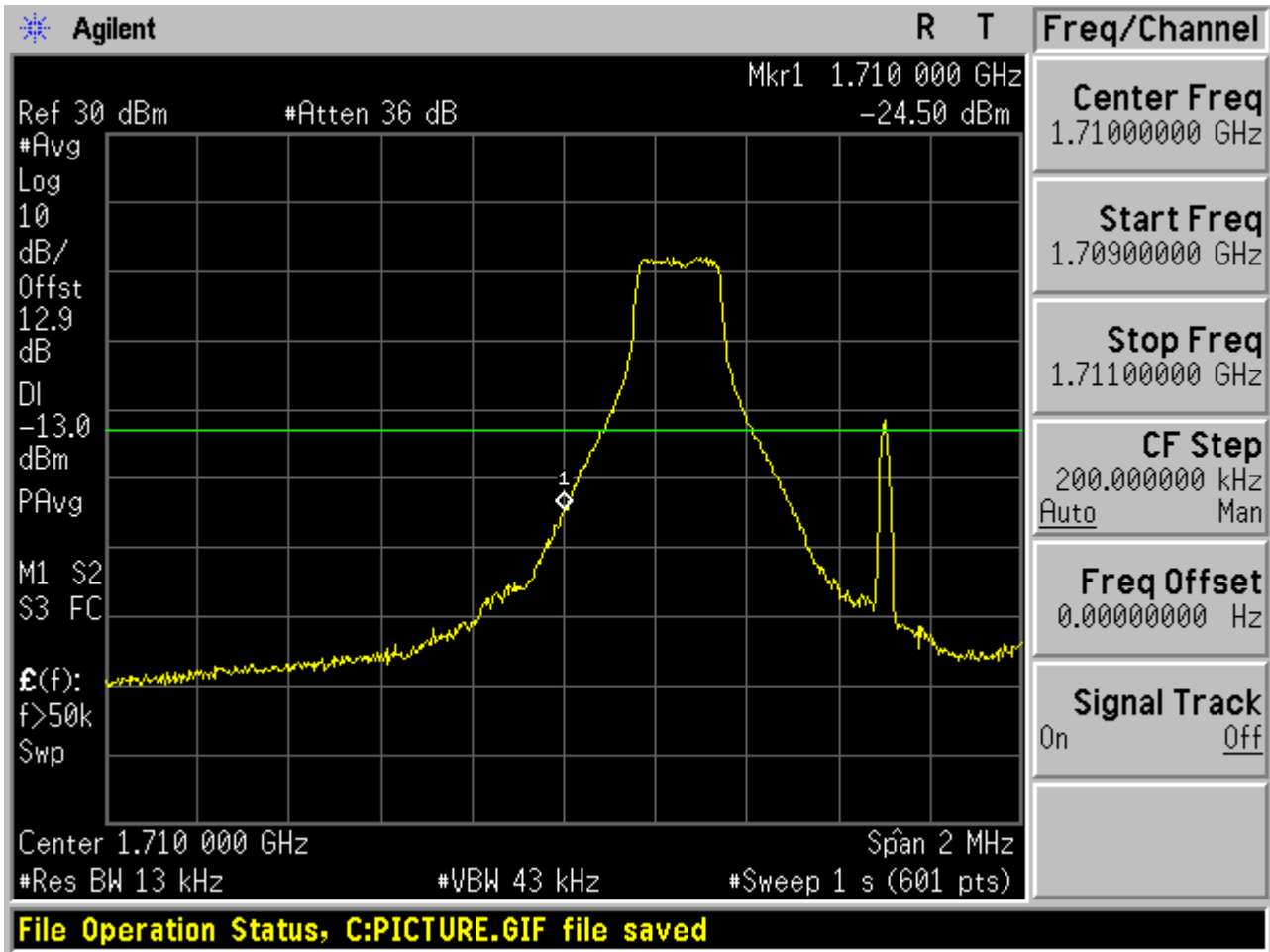


## 2.2 Test Mode=TM5

### 2.2.1 Channel Bandwidth = 1.4 MHz

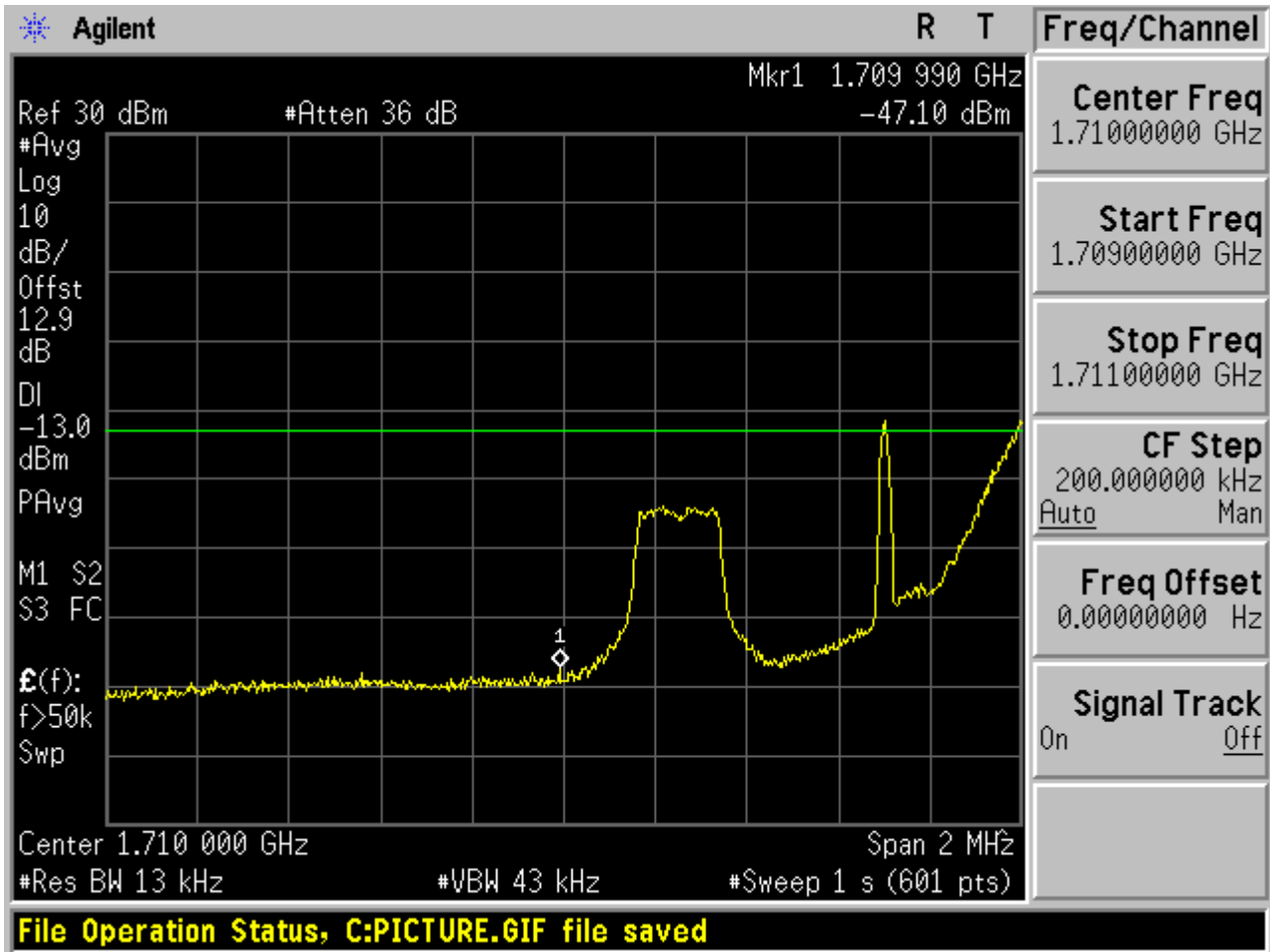
#### 2.2.1.1 Channel= B

##### 2.2.1.1.1 16QAM/1RB #0



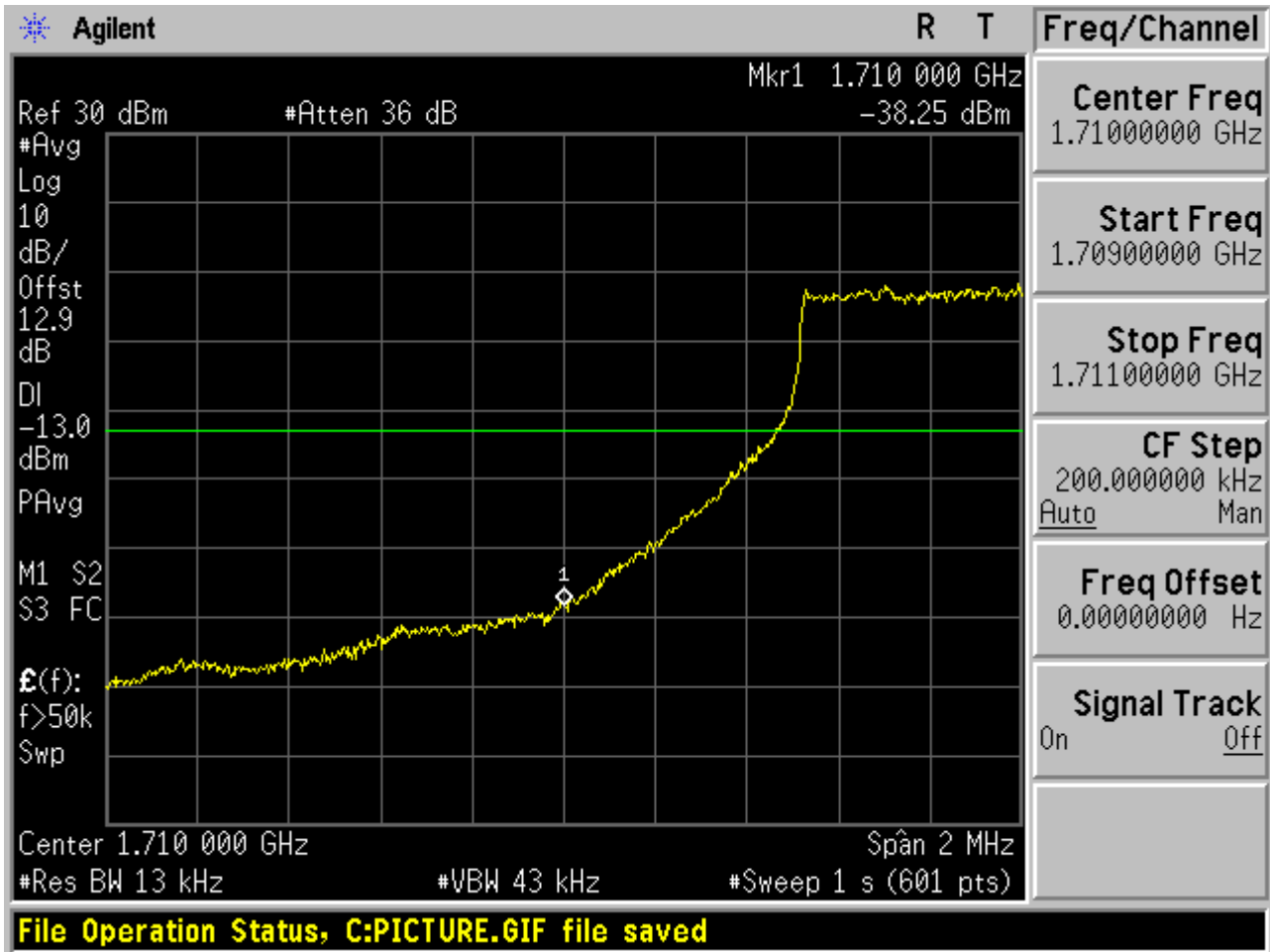


2.2.1.1.2 16QAM/1RB #max



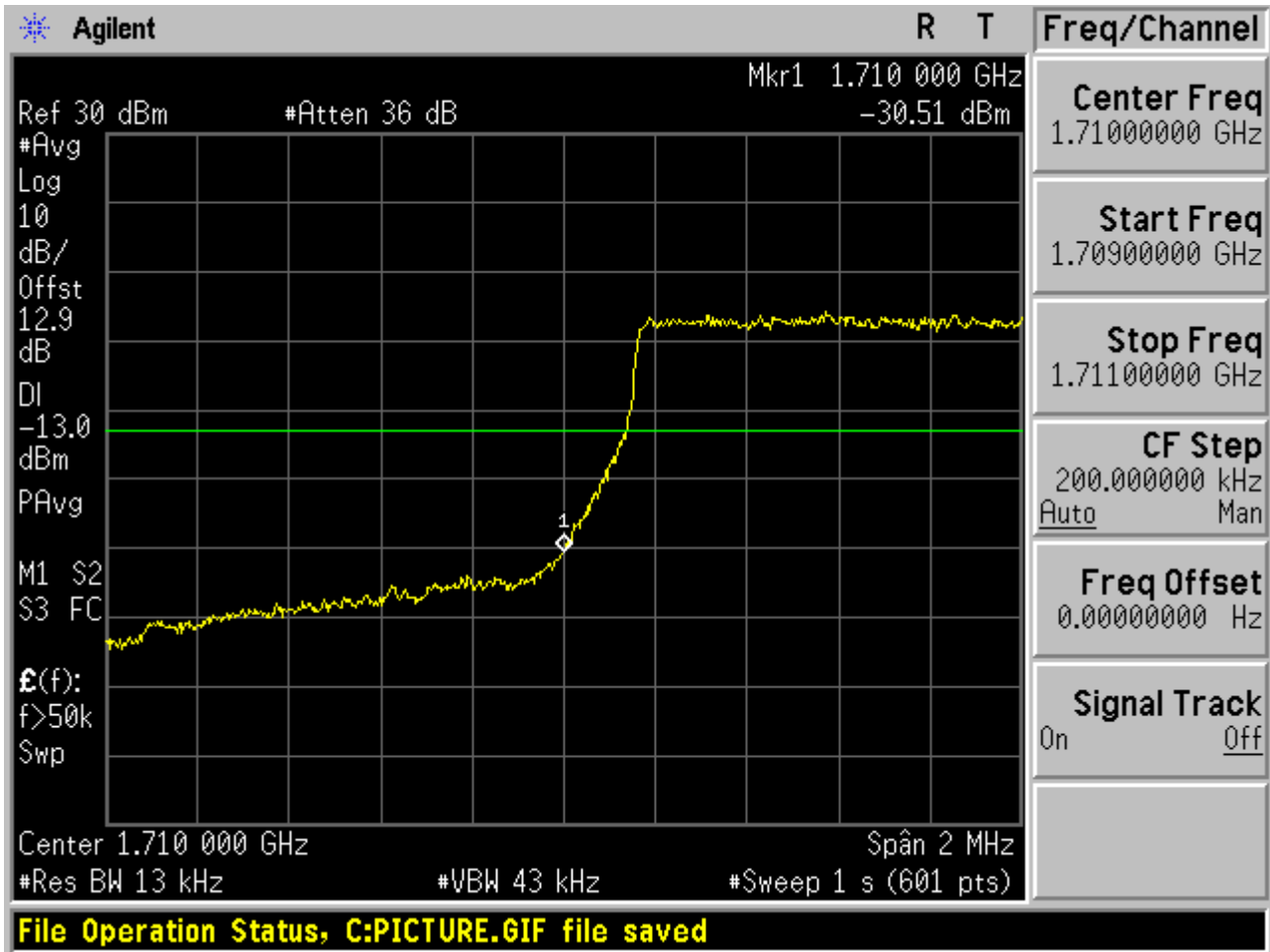


2.2.1.1.3 16QAM / non-1RB #mid/2





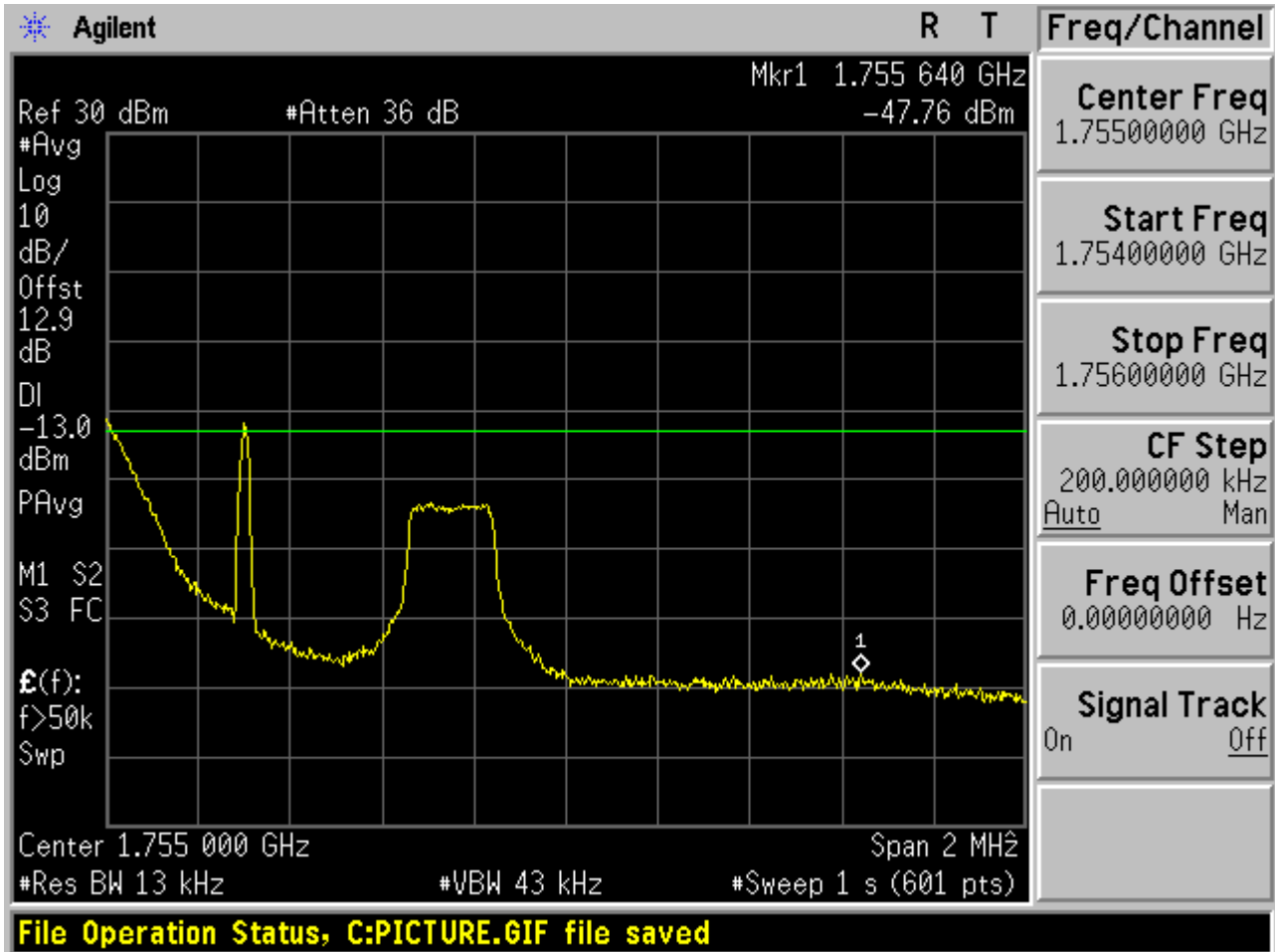
### 2.2.1.1.4 16QAM /full RBs





## 2.2.1.2 Channel= T

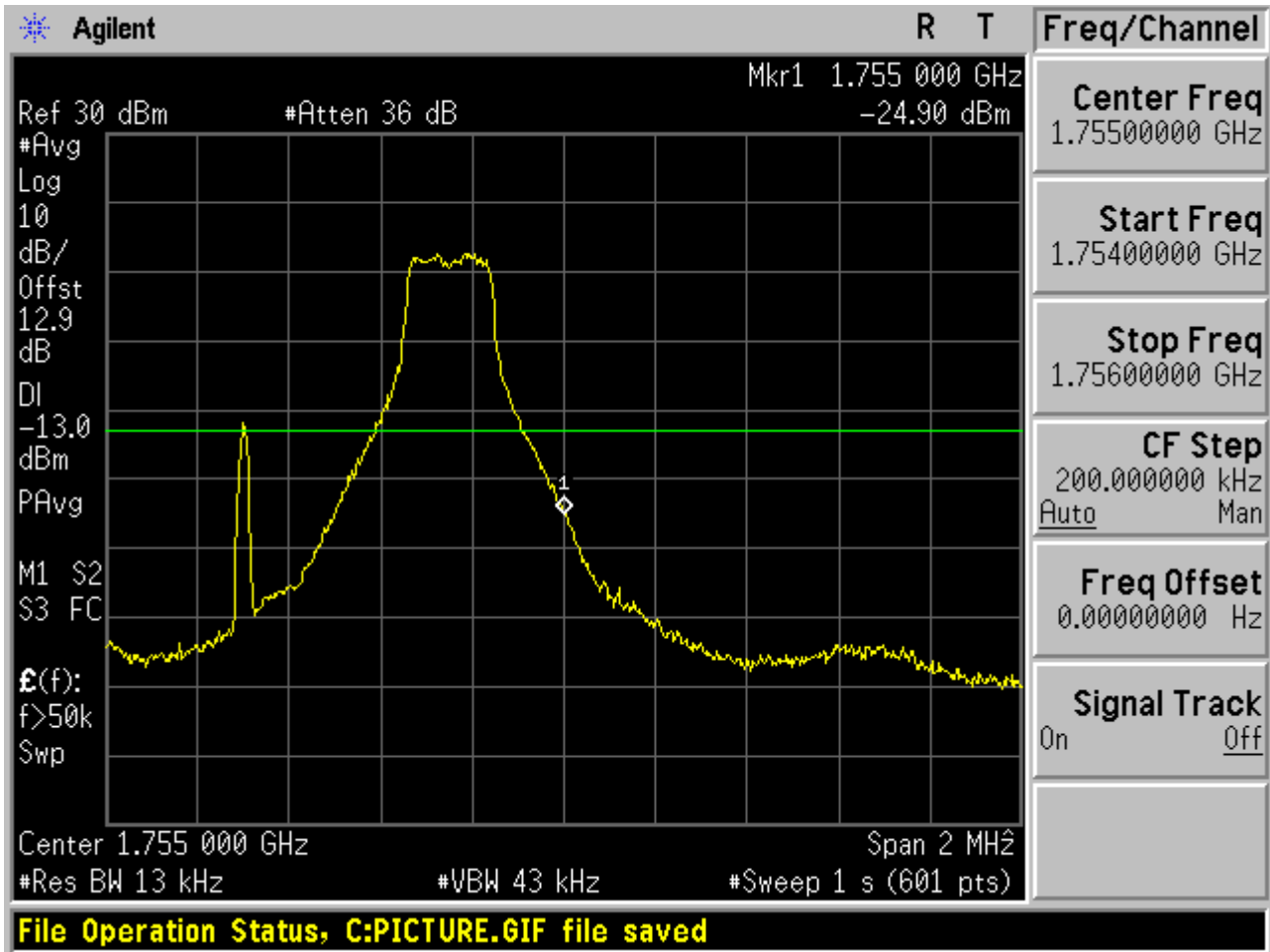
### 2.2.1.2.1 16QAM /1RB #0





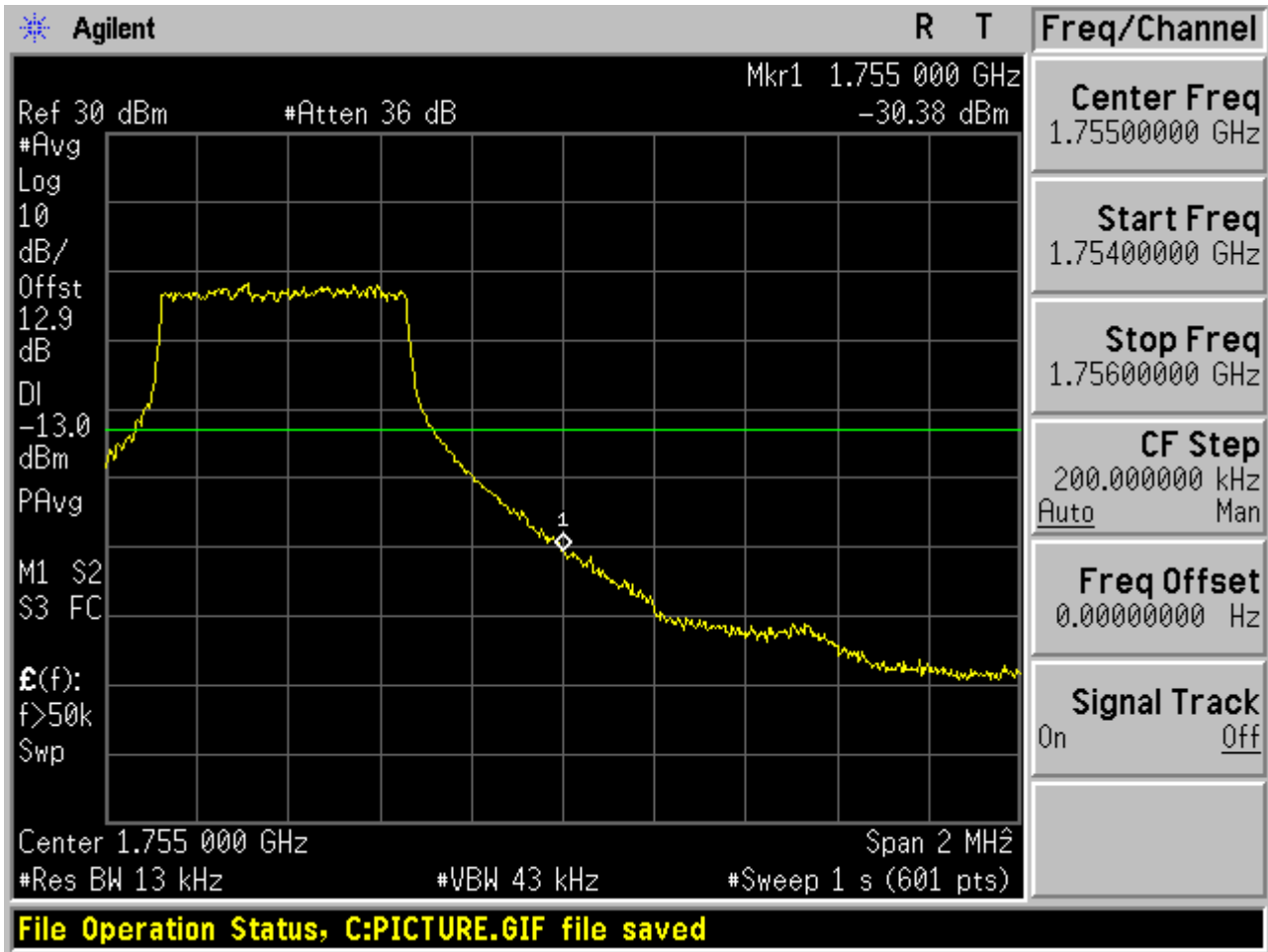


2.2.1.2.2 16QAM /1RB #max



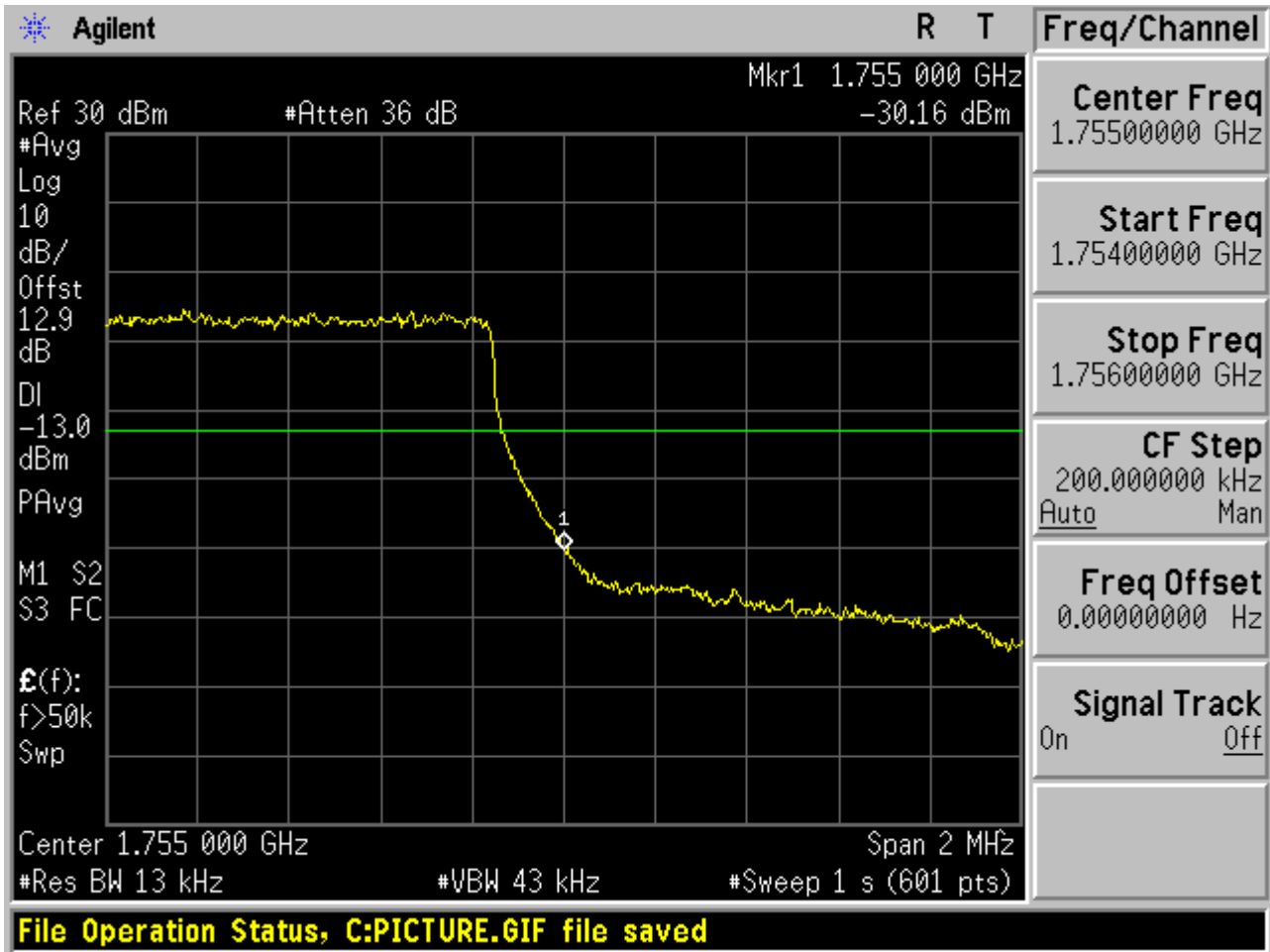


2.2.1.2.3 16QAM / non-1RB #mid/2





2.2.1.2.4 16QAM /full RBs

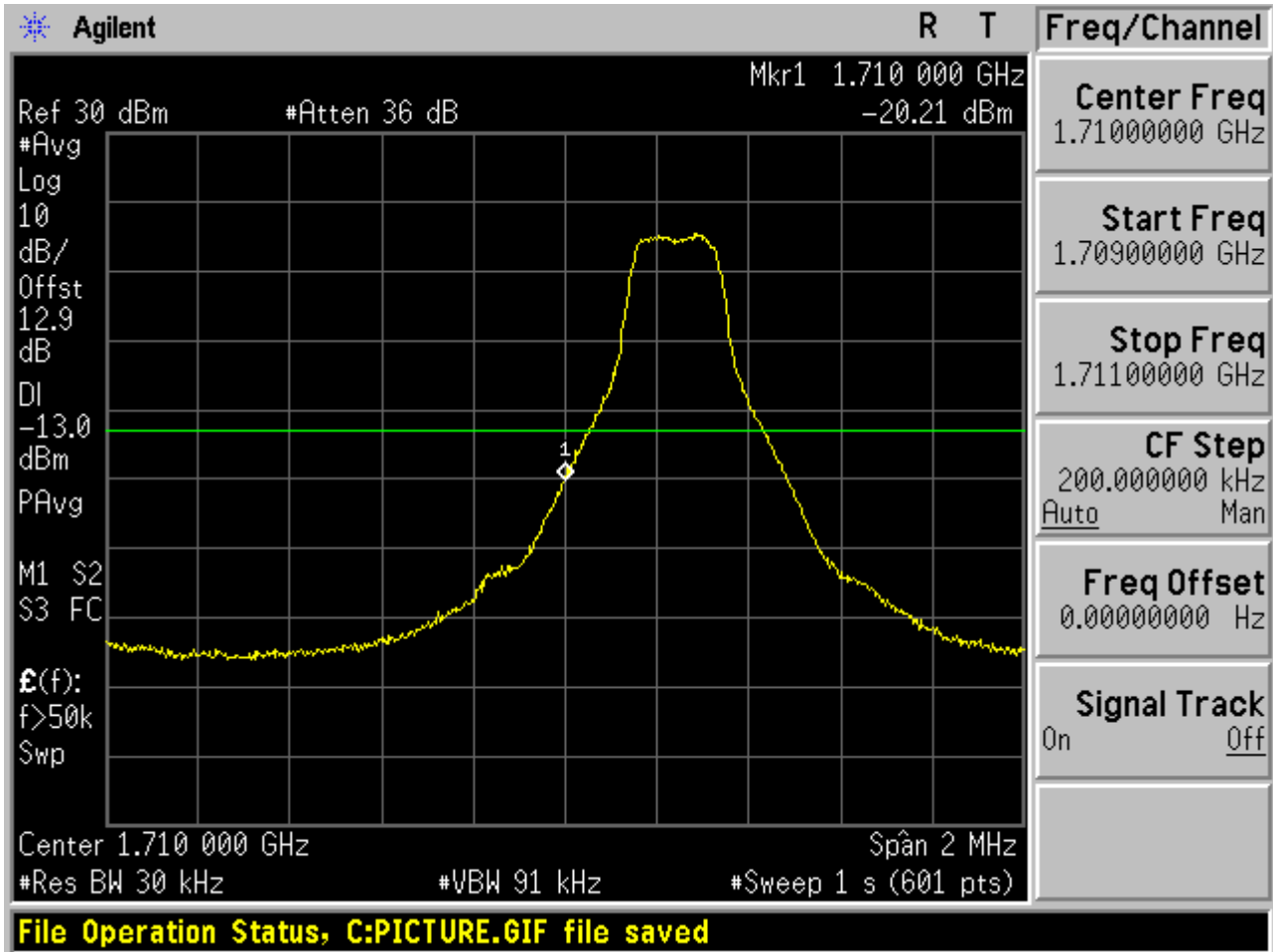




## 2.2.2 Channel Bandwidth = 3 MHz

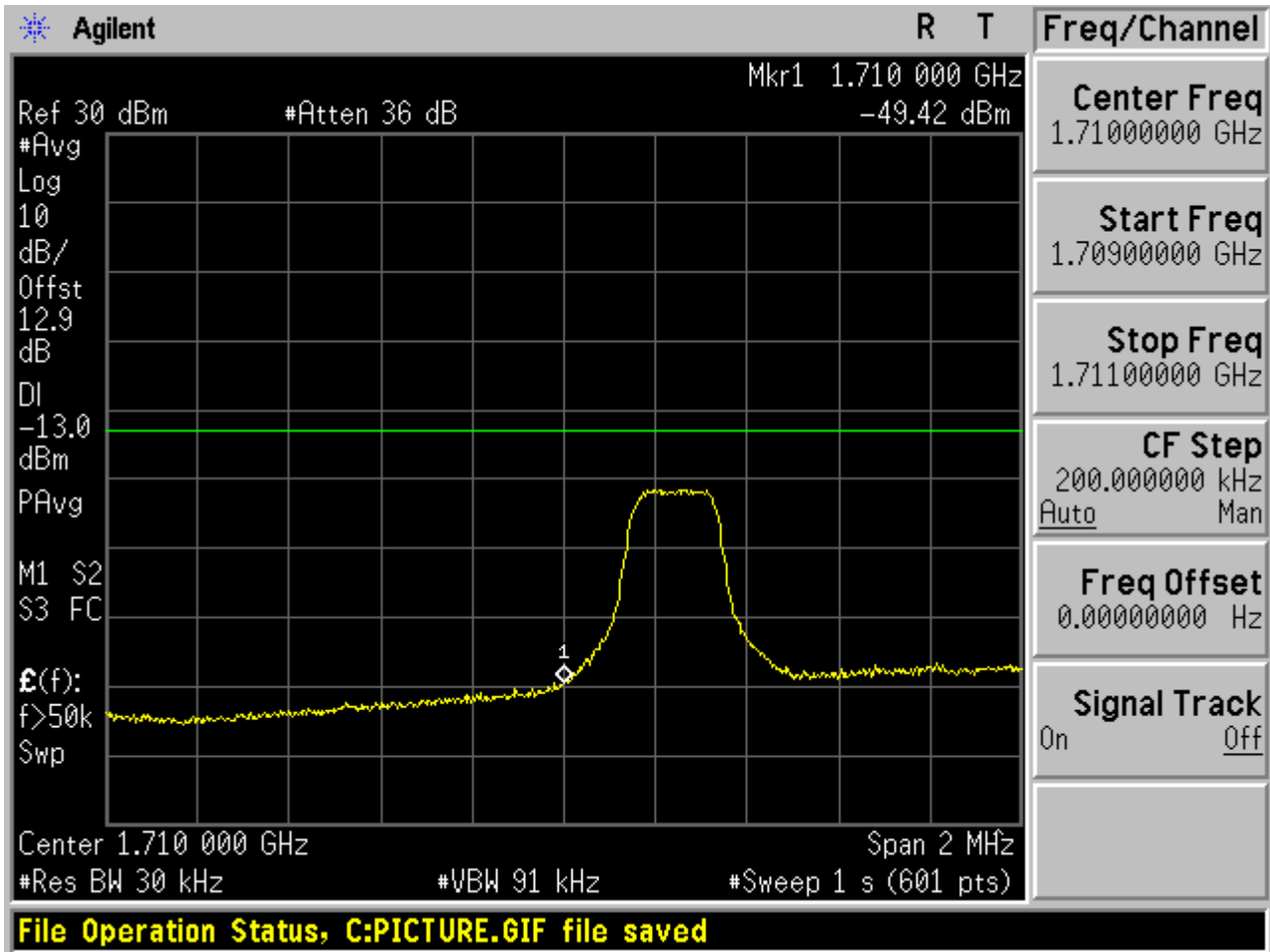
### 2.2.2.1 Channel= B

#### 2.2.2.1.1 16QAM/1RB #0



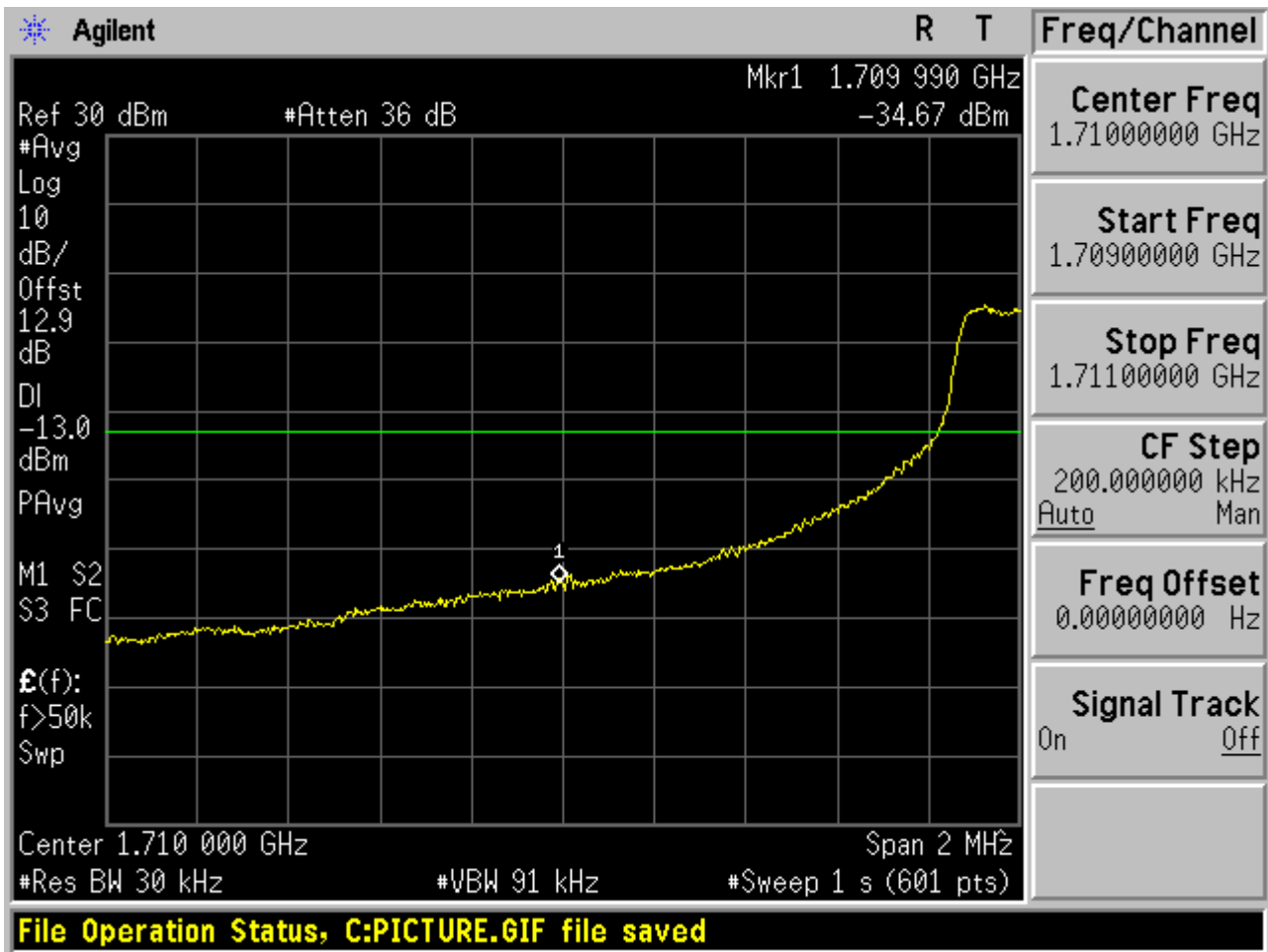


2.2.2.1.2 16QAM/1RB #max



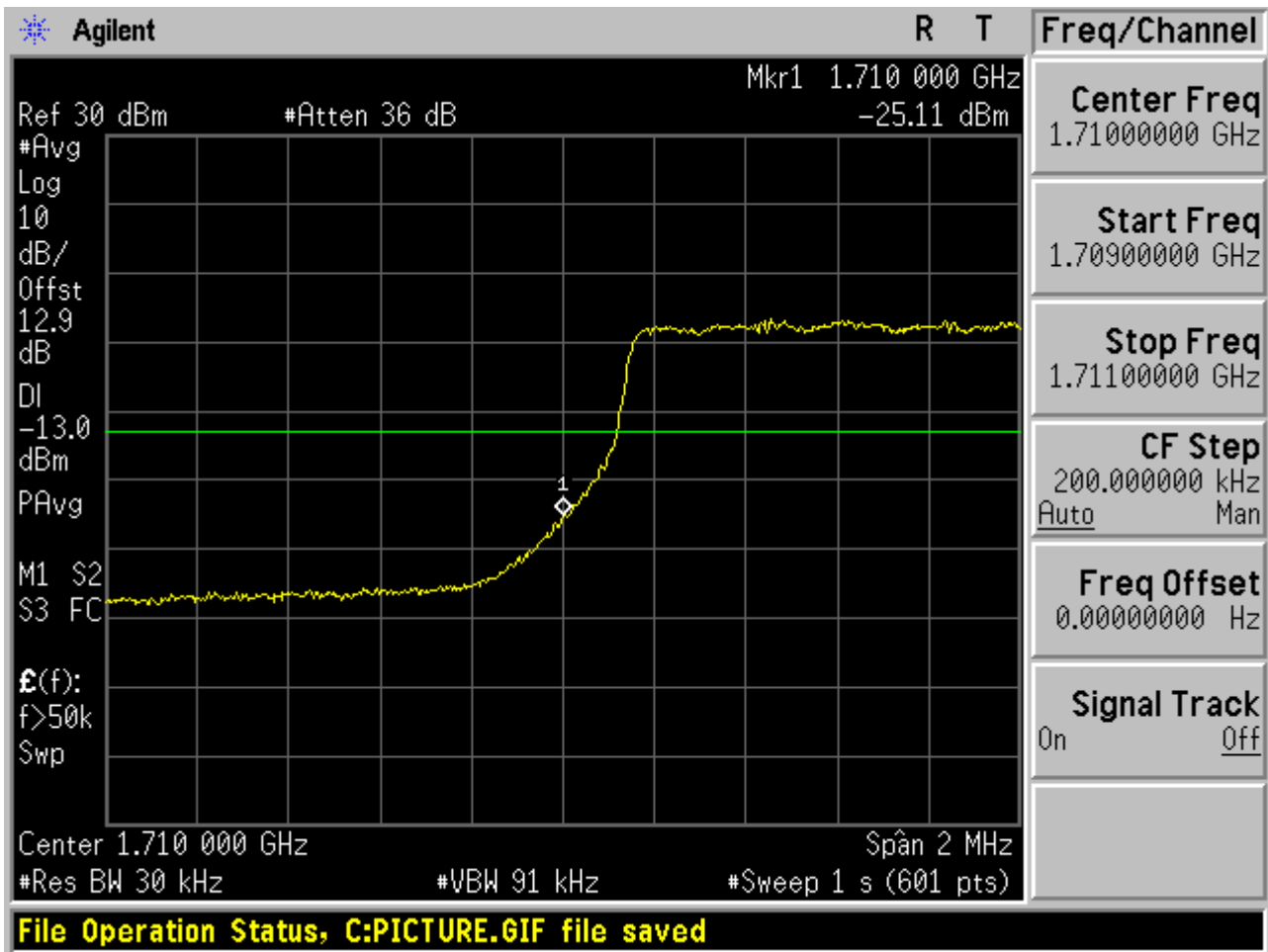


2.2.2.1.3 16QAM / non-1RB #mid/2





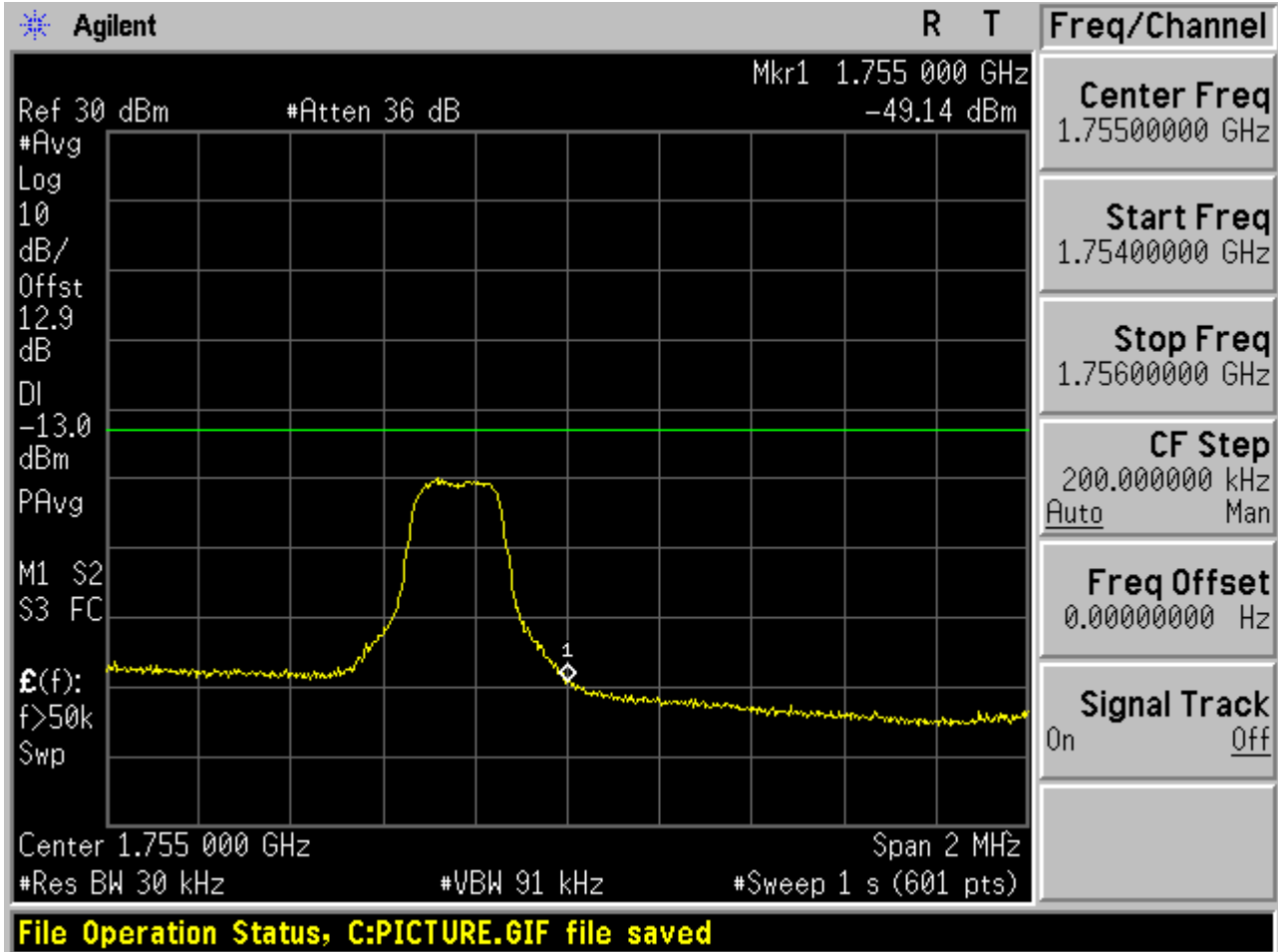
### 2.2.2.1.4 16QAM /full RBs





## 2.2.2.2 Channel= T

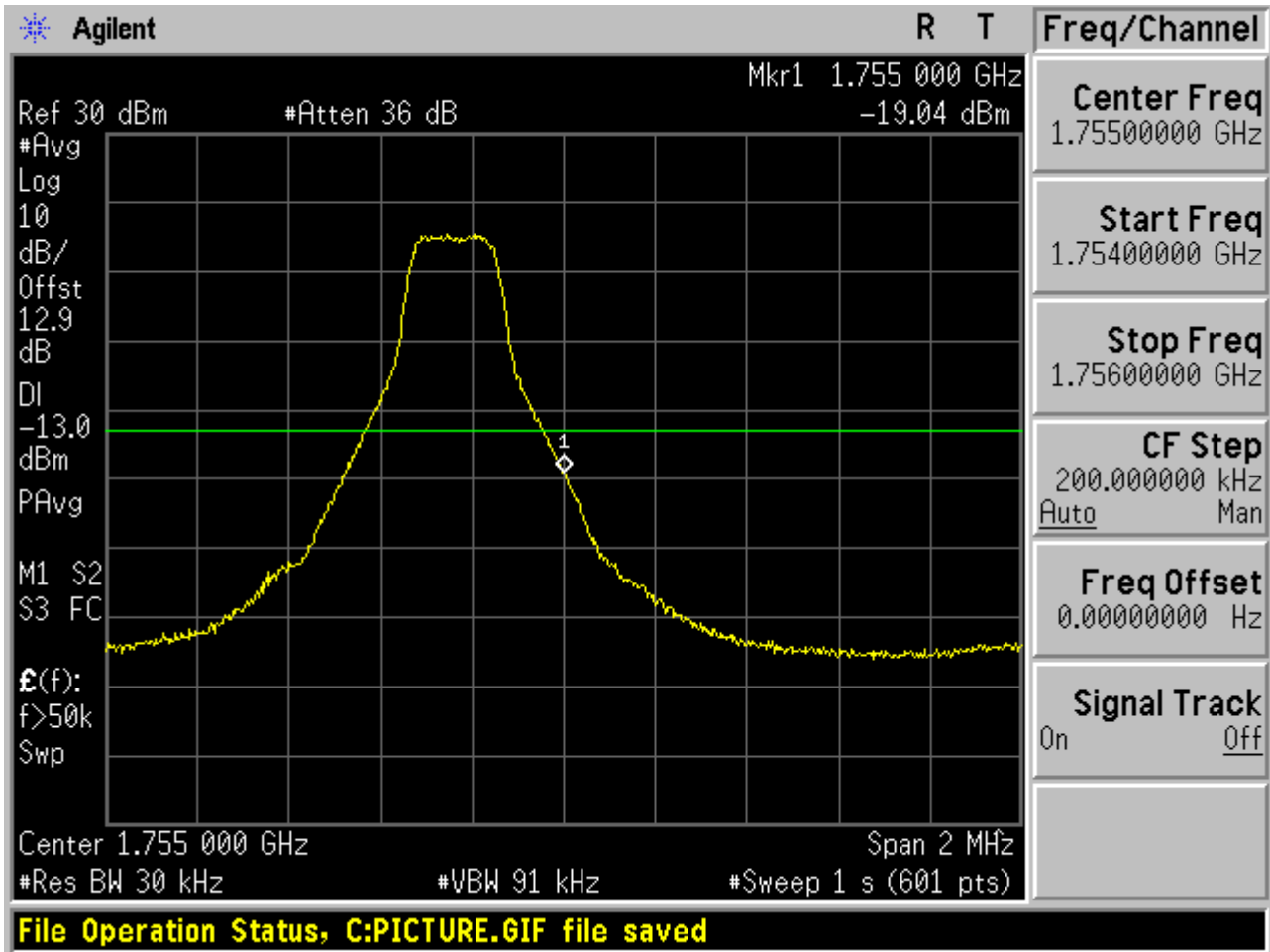
### 2.2.2.2.1 16QAM /1RB #0





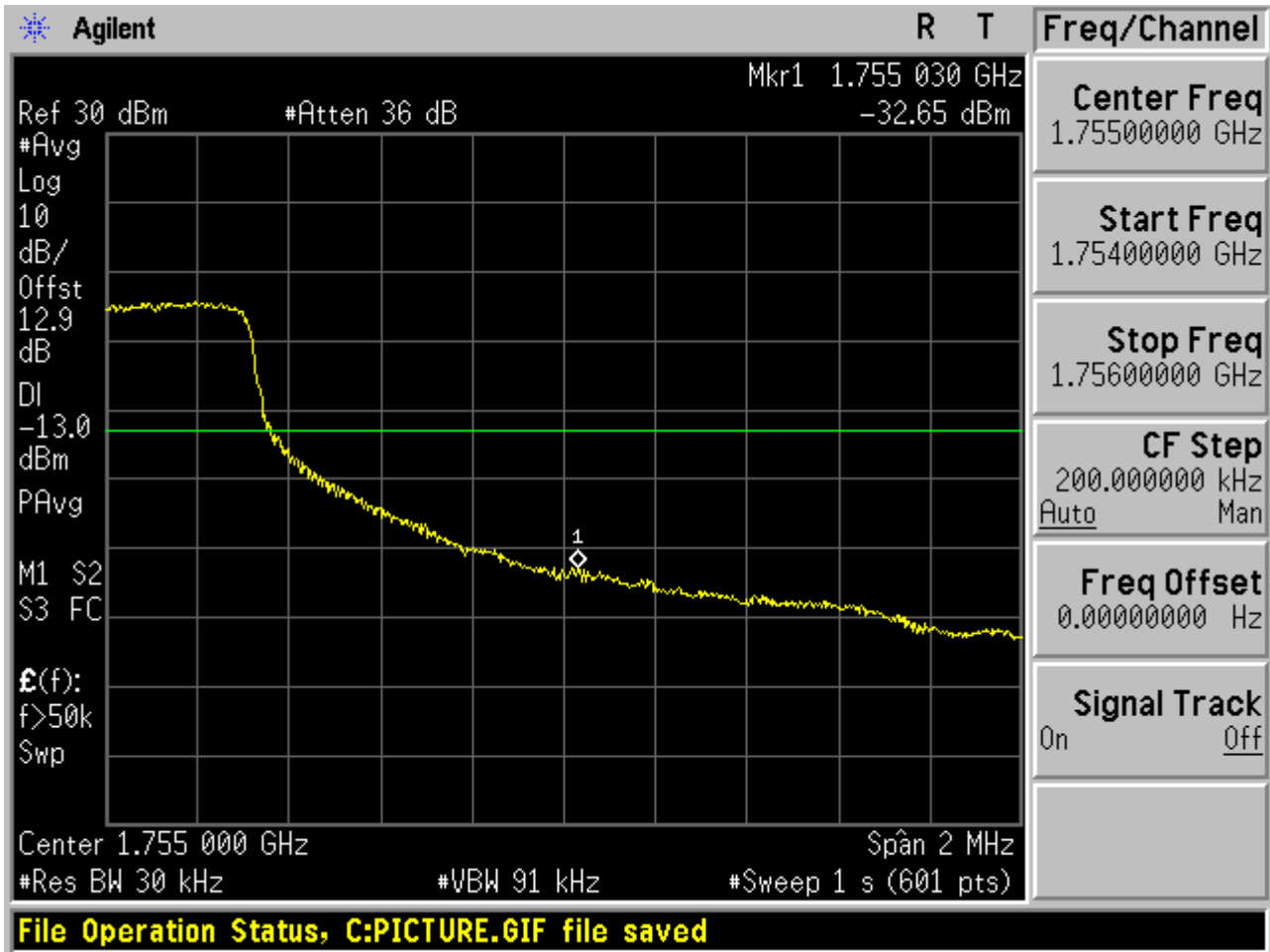


2.2.2.2.2 16QAM /1RB #max



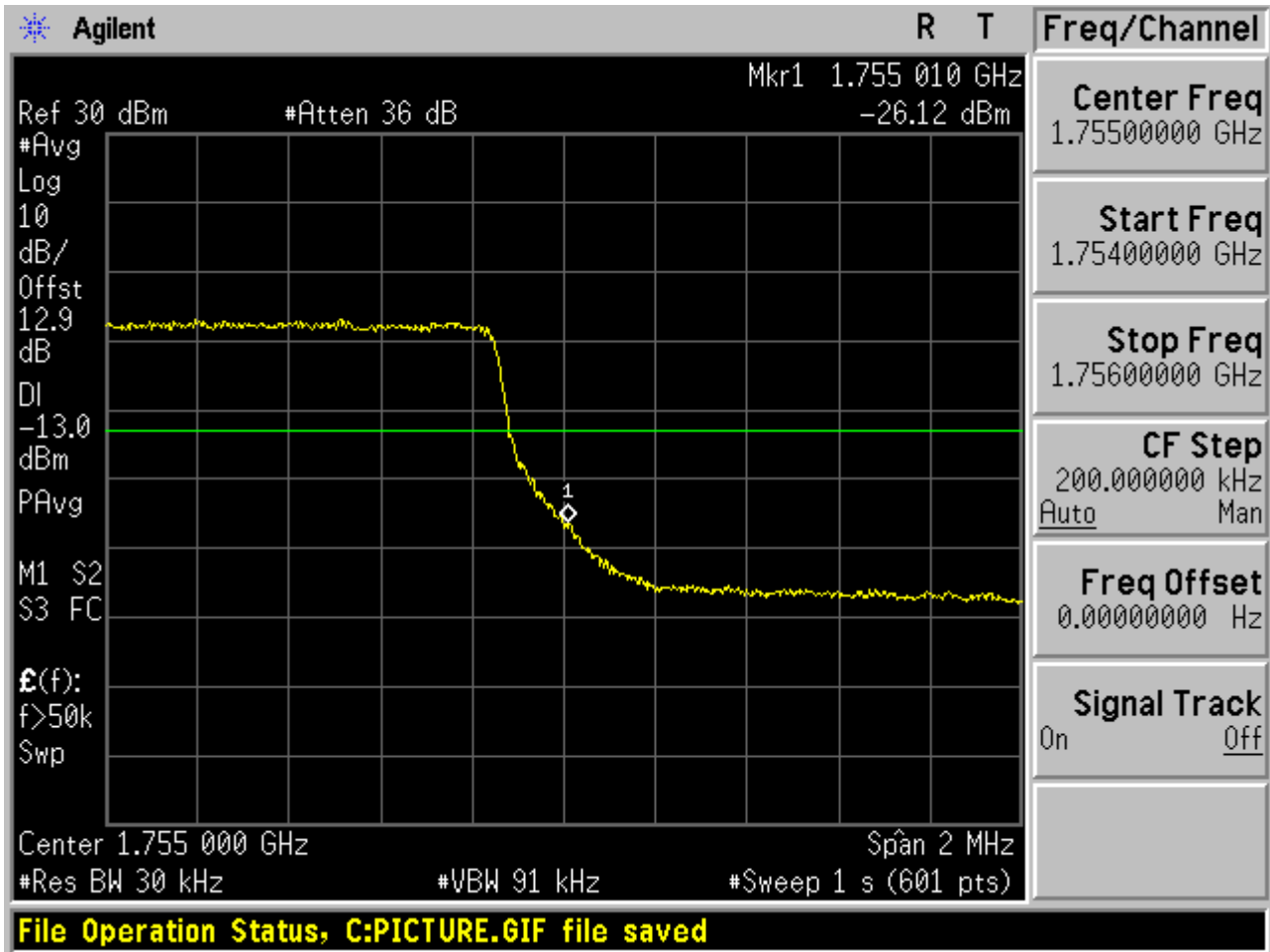


2.2.2.2.3 16QAM / non-1RB #mid/2





2.2.2.2.4 16QAM /full RBs

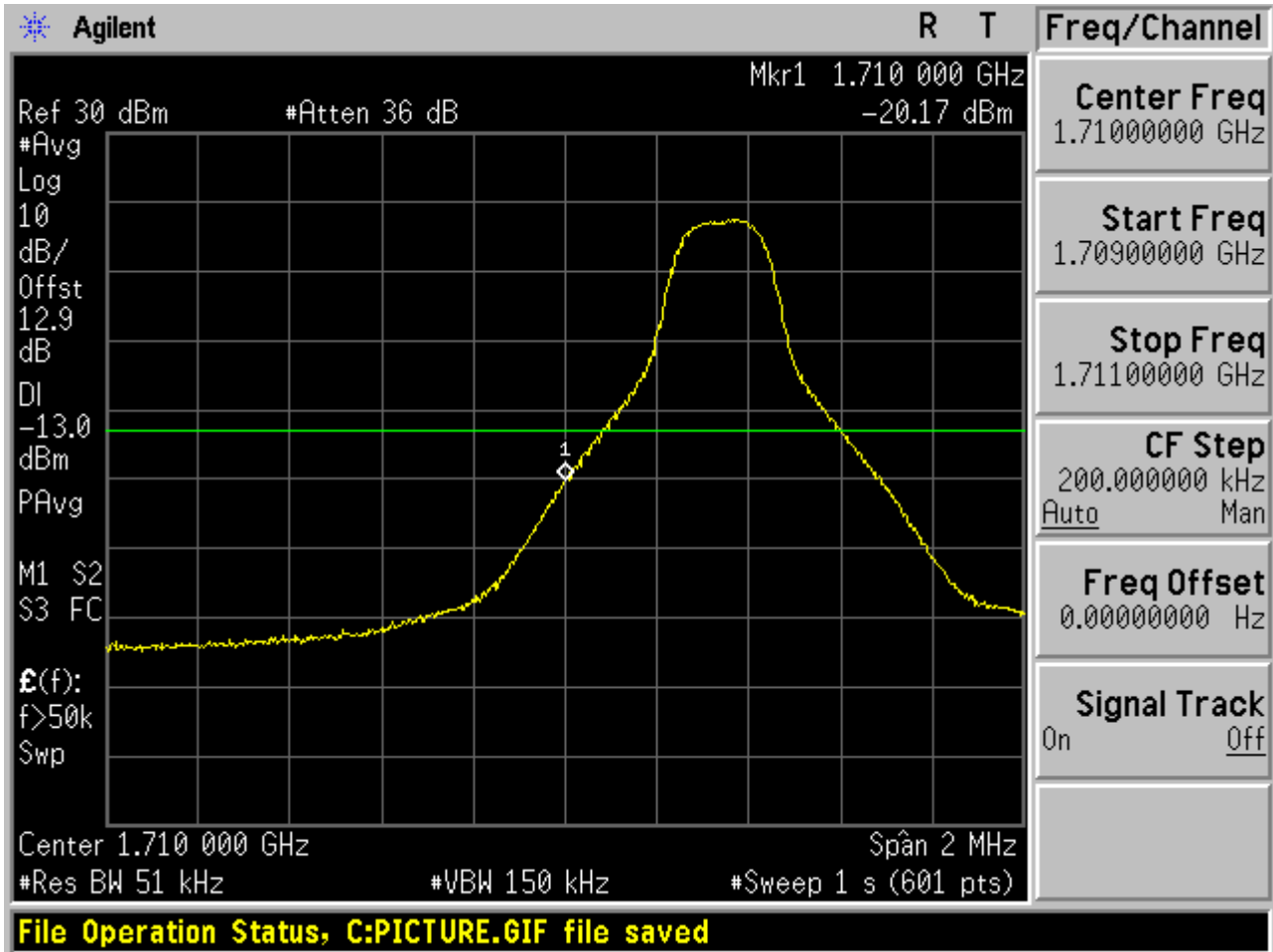




## 2.2.3 Channel Bandwidth = 5 MHz

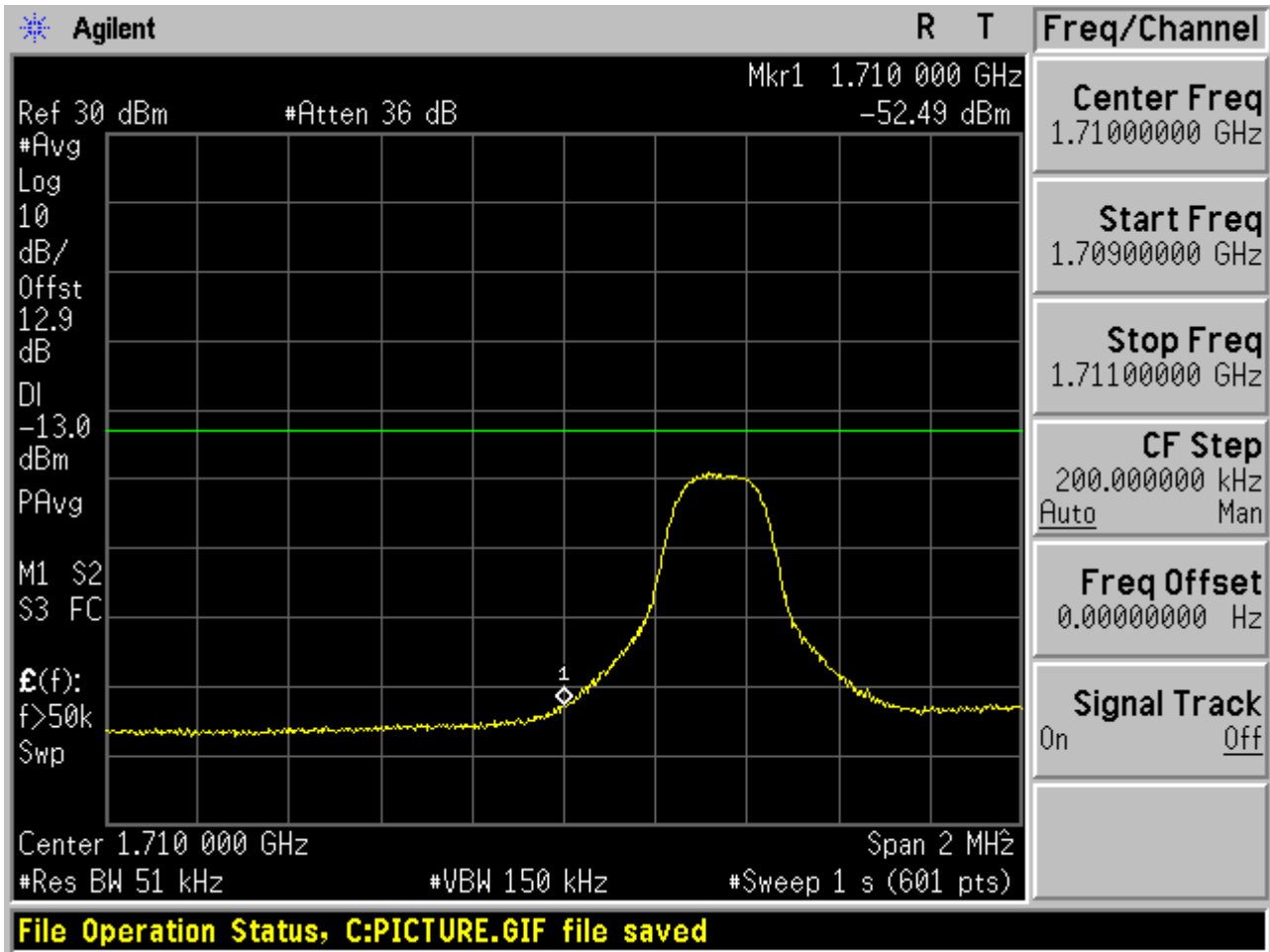
### 2.2.3.1 Channel= B

#### 2.2.3.1.1 16QAM/1RB #0



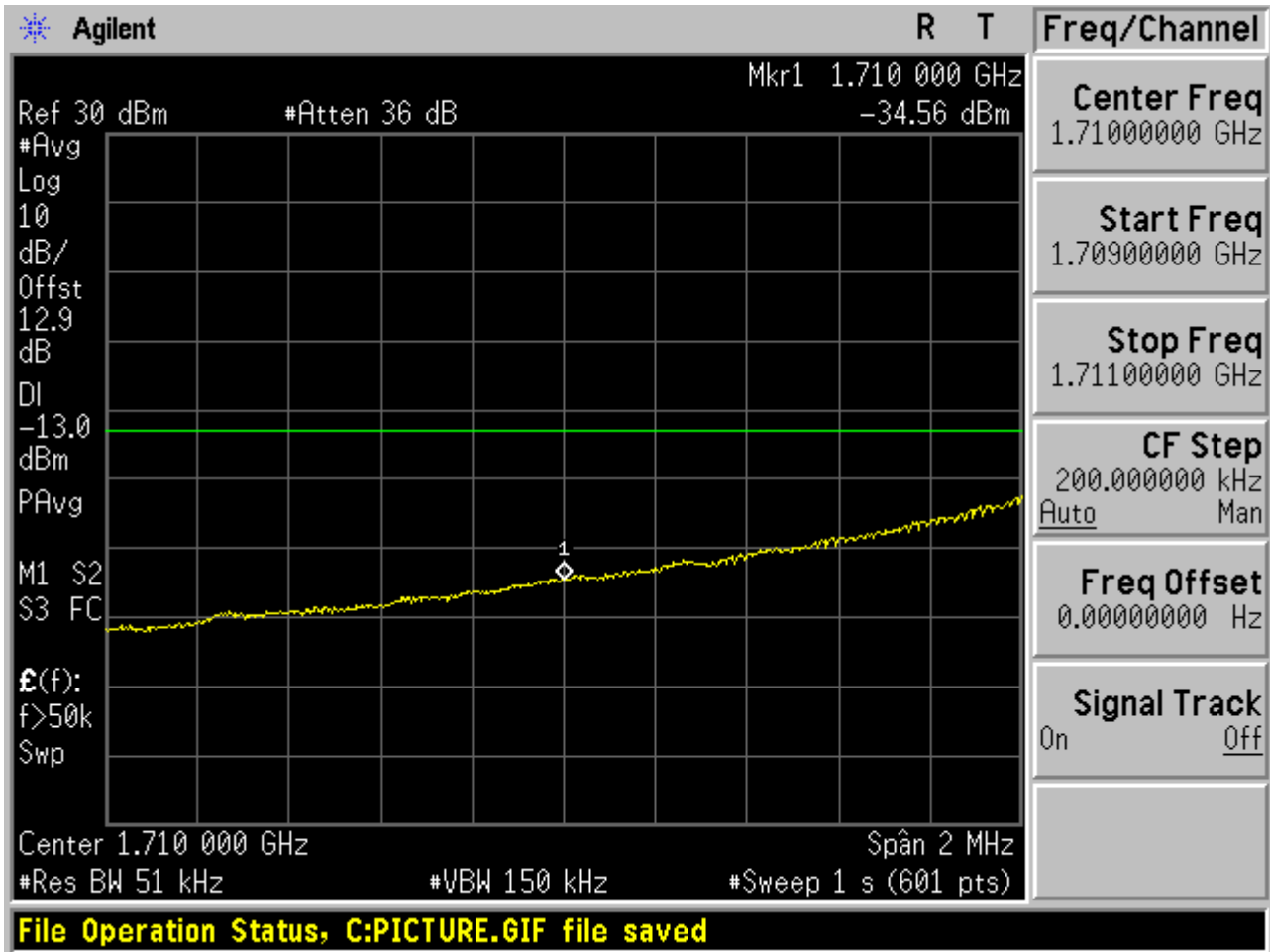


2.2.3.1.2 16QAM/1RB #max



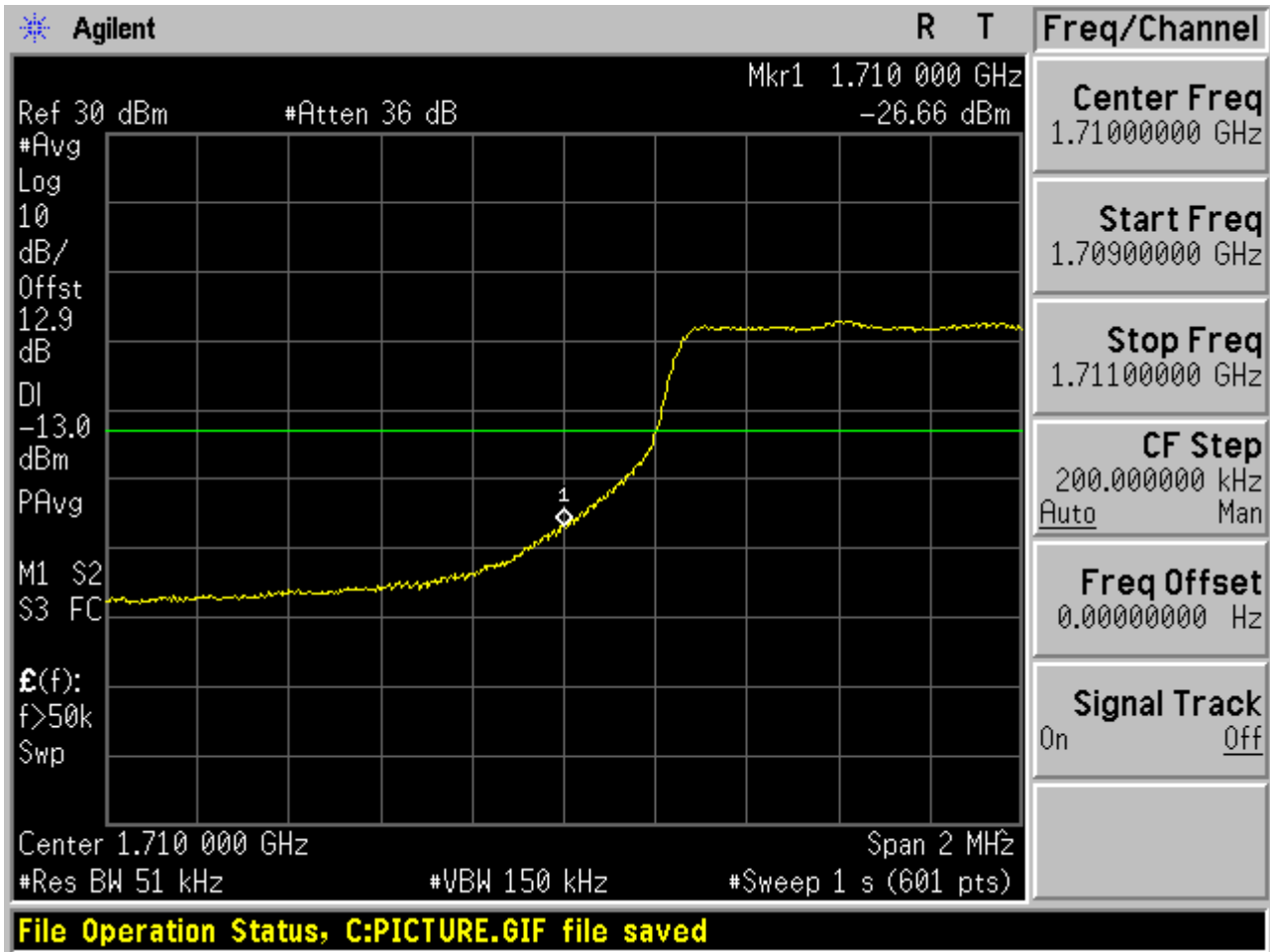


2.2.3.1.3 16QAM / non-1RB #mid/2





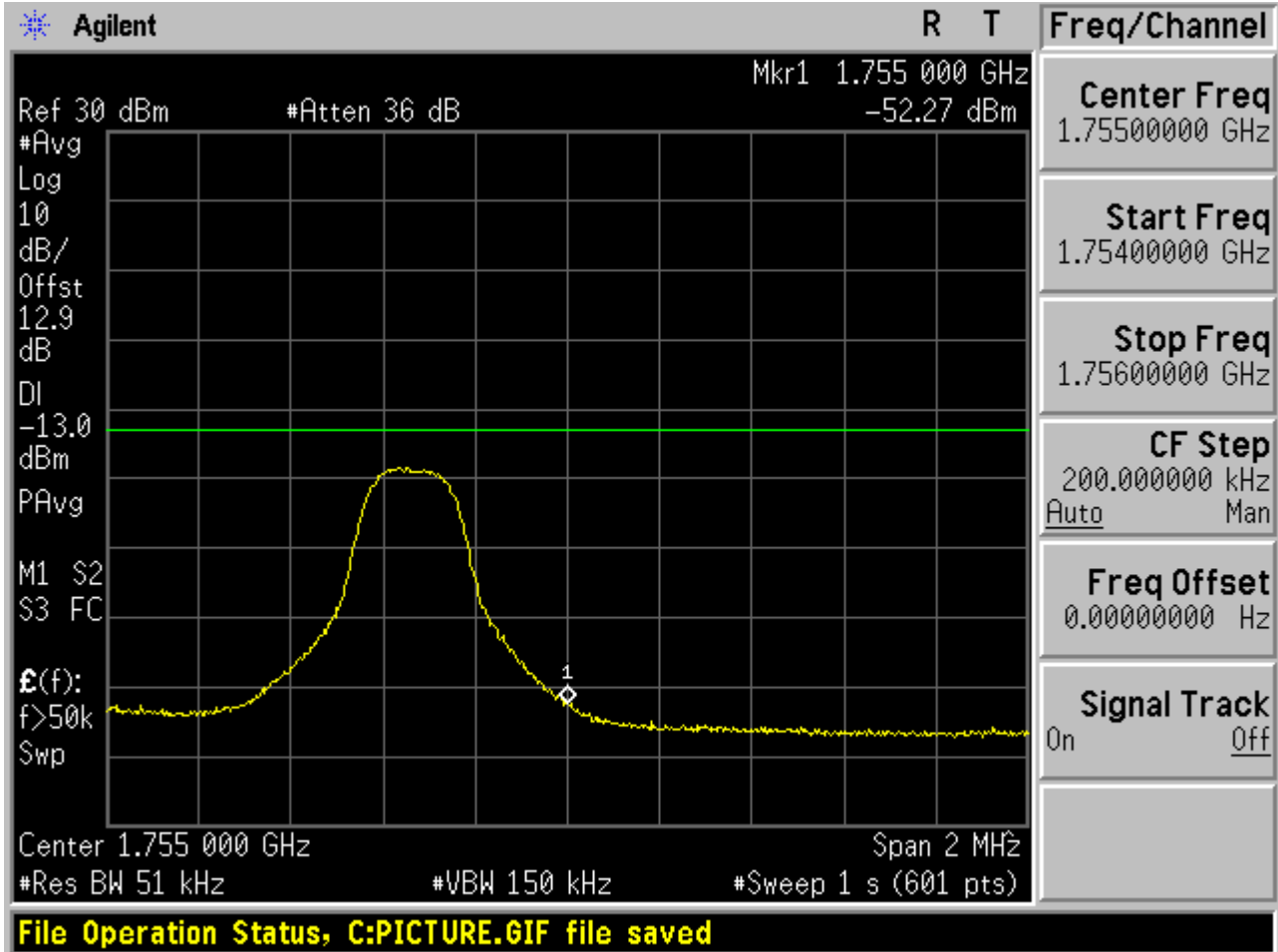
2.2.3.1.4 16QAM /full RBs





### 2.2.3.2 Channel= T

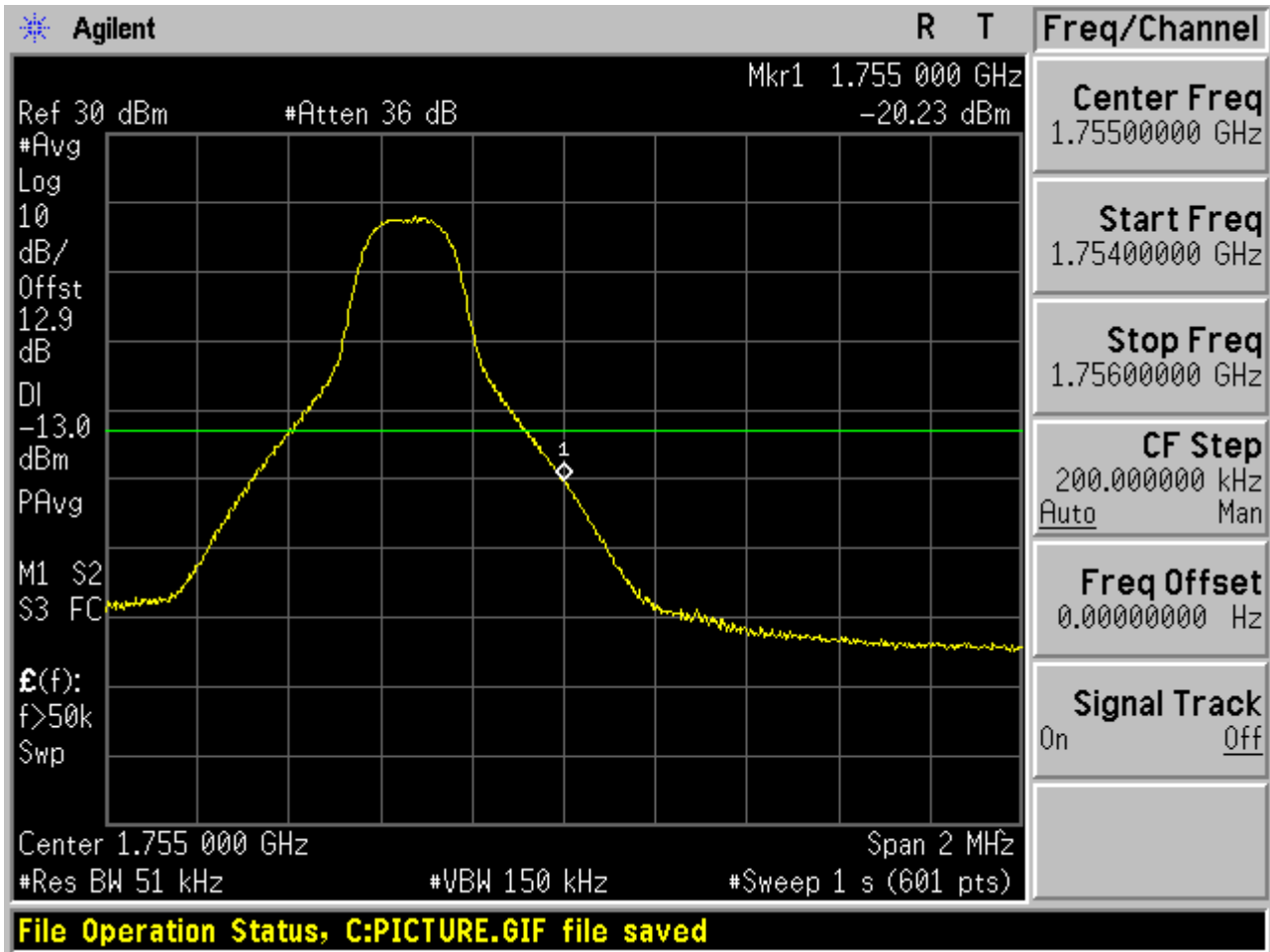
#### 2.2.3.2.1 16QAM /1RB #0





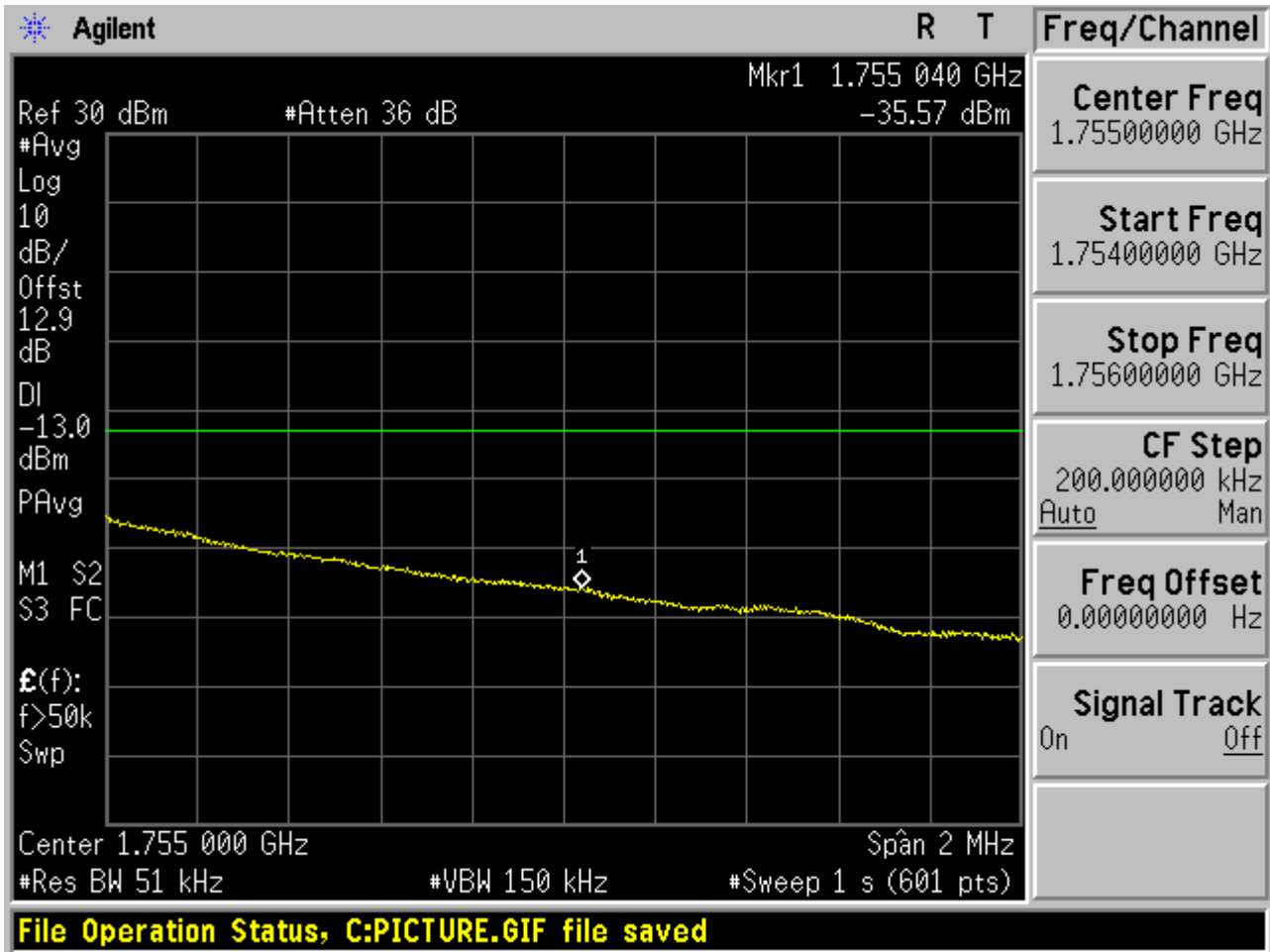


2.2.3.2.2 16QAM /1RB #max



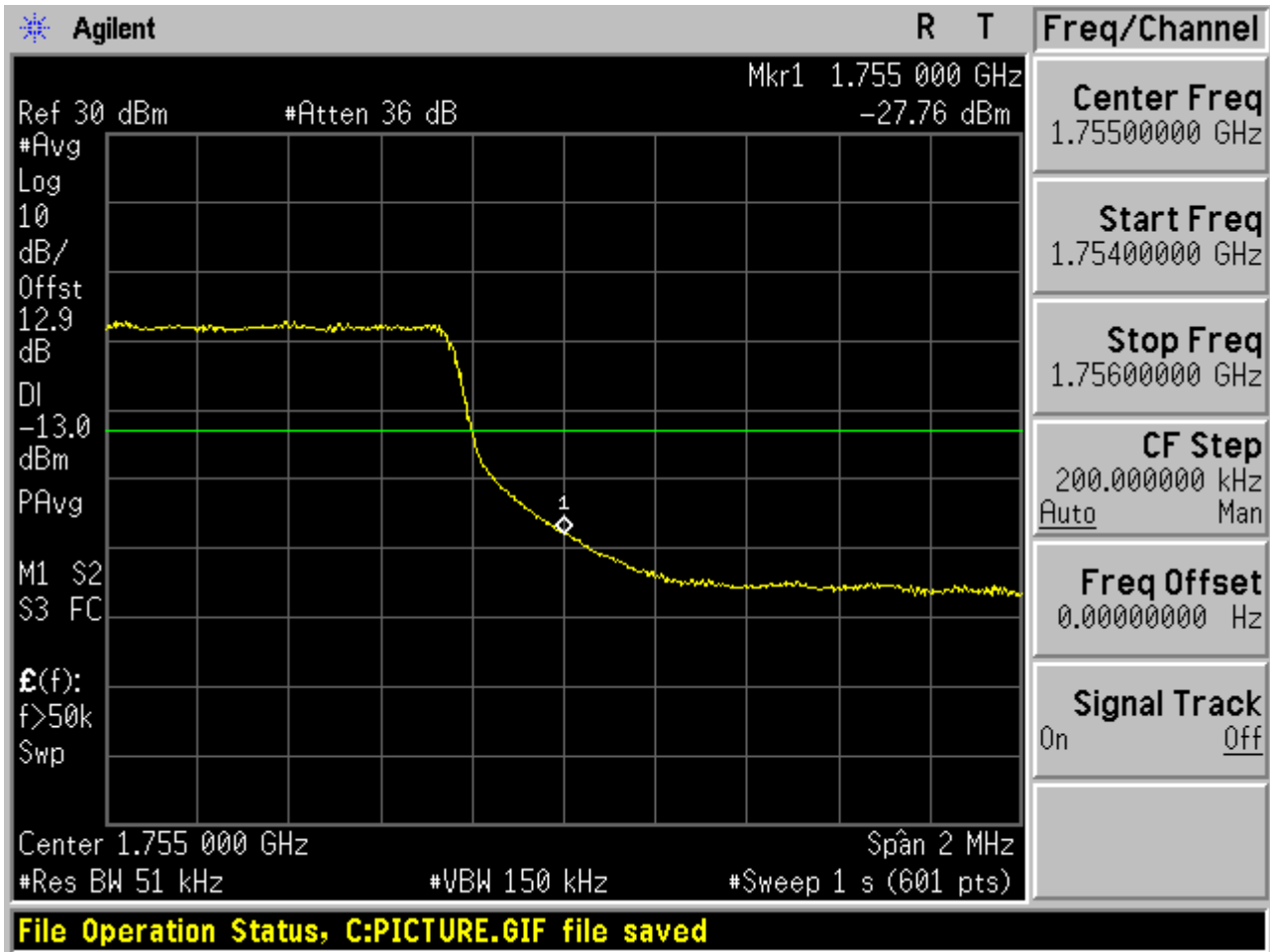


2.2.3.2.3 16QAM / non-1RB #mid/2





2.2.3.2.4 16QAM /full RBs

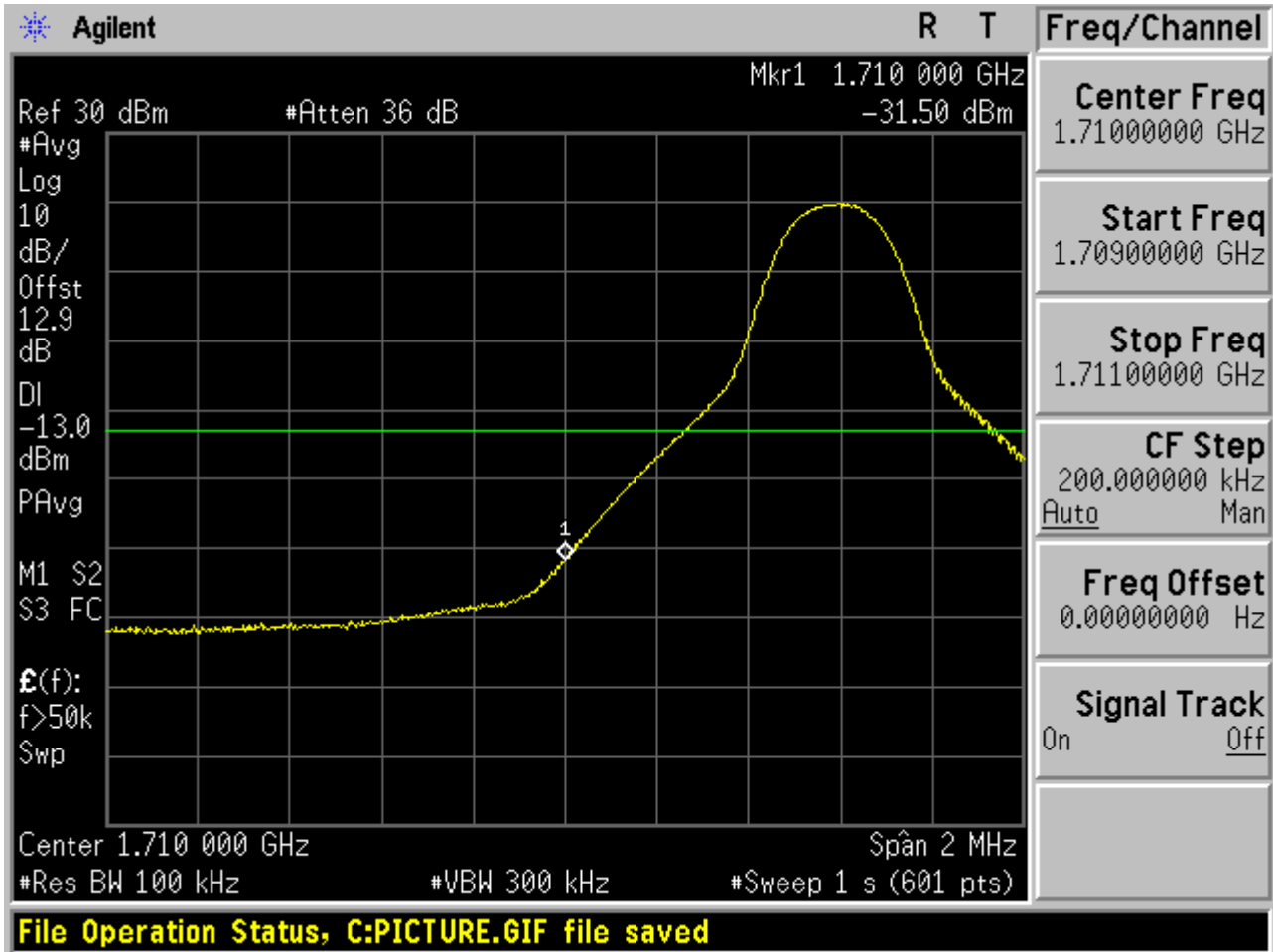




## 2.2.4 Channel Bandwidth = 10 MHz

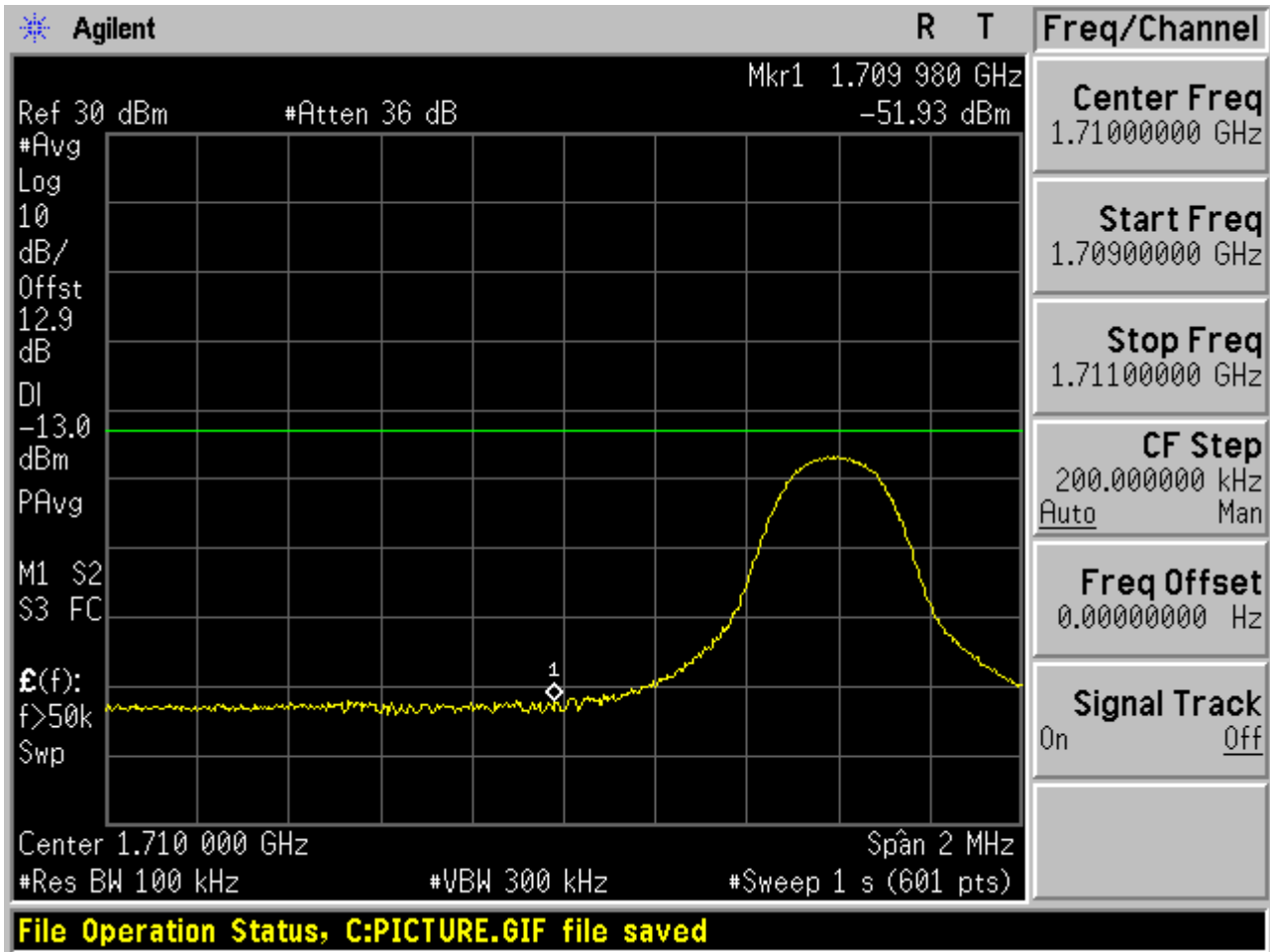
### 2.2.4.1 Channel= B

#### 2.2.4.1.1 16QAM/1RB #0



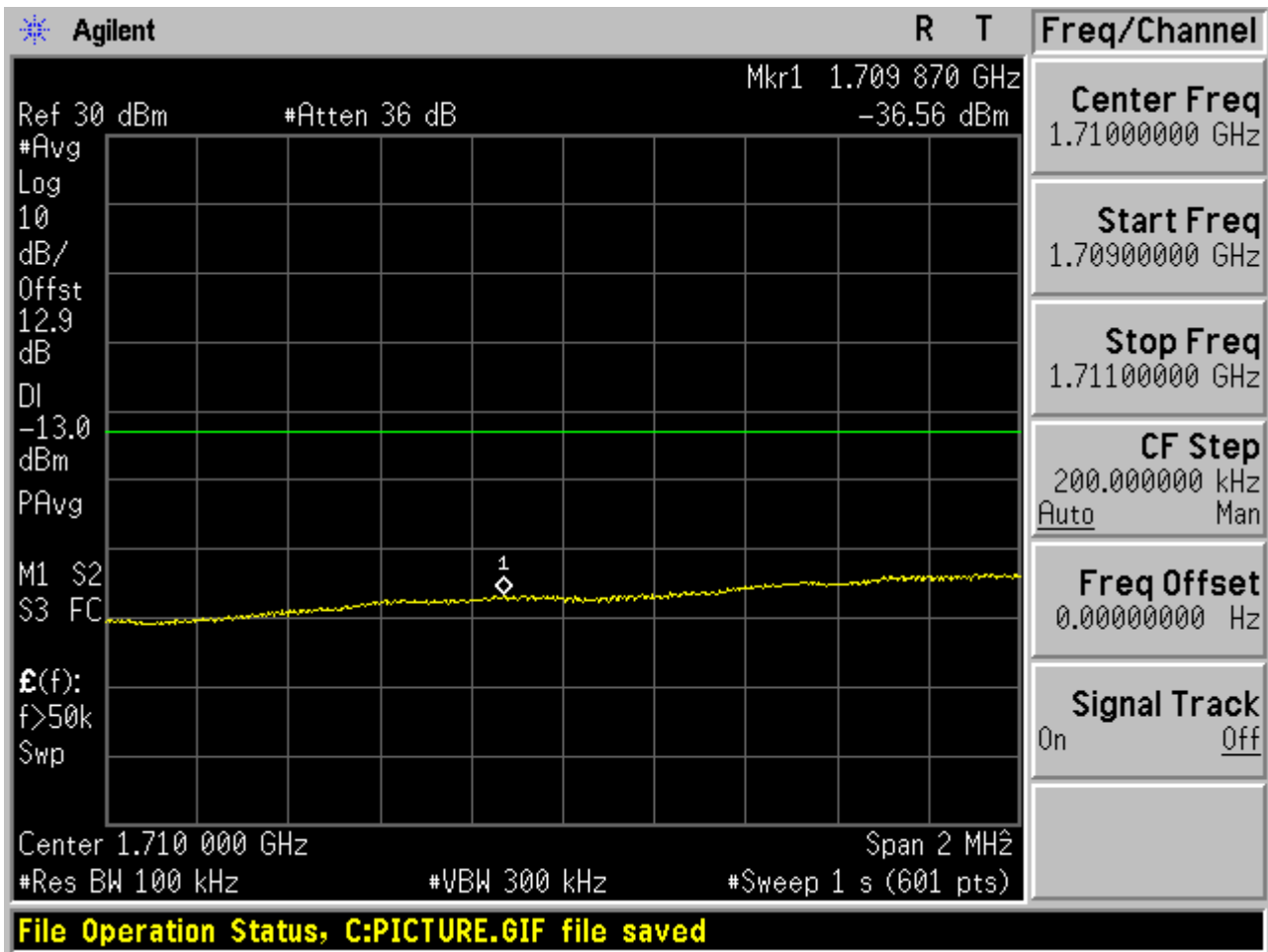


2.2.4.1.2 16QAM/1RB #max



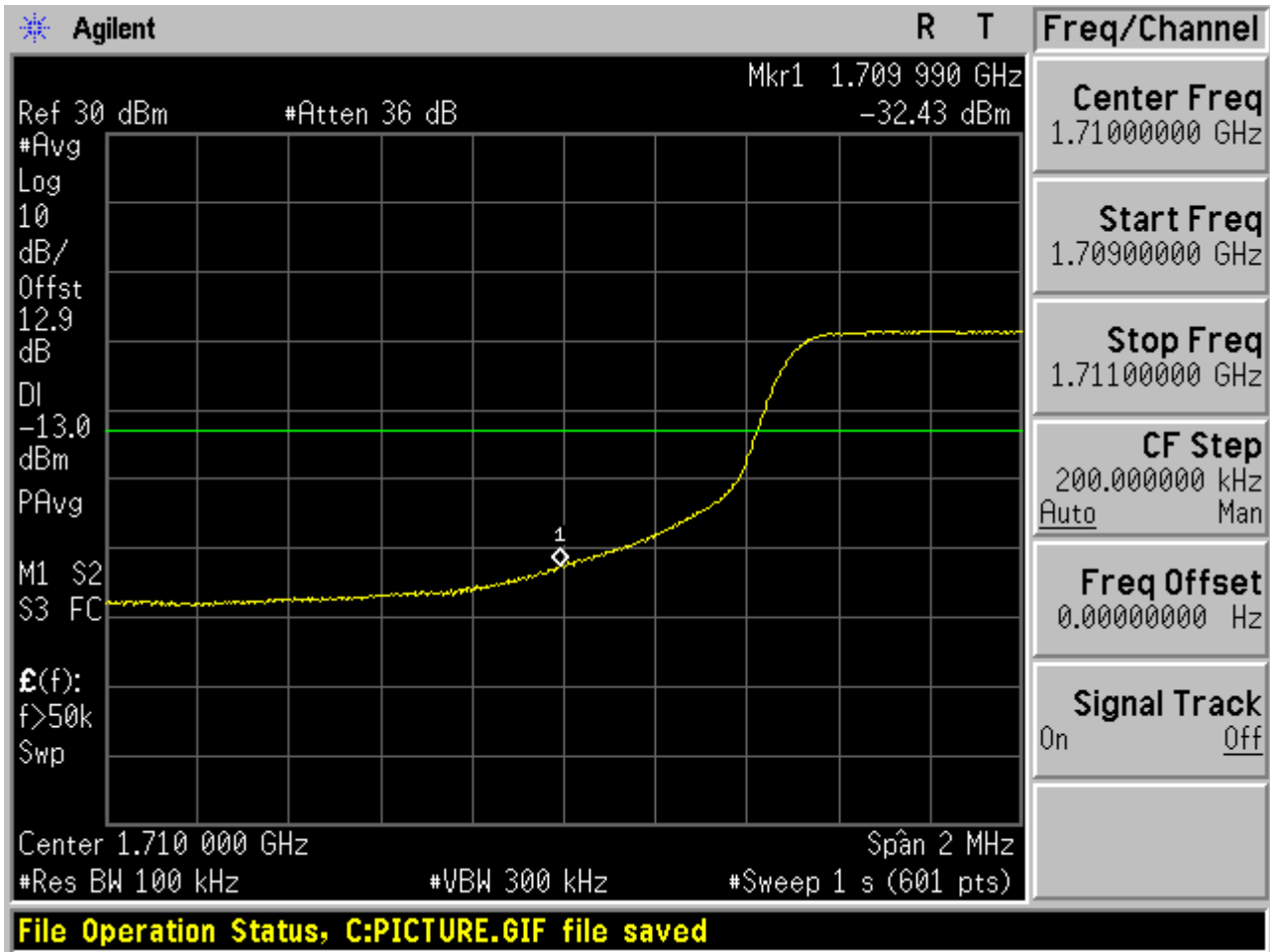


2.2.4.1.3 16QAM / non-1RB #mid/2





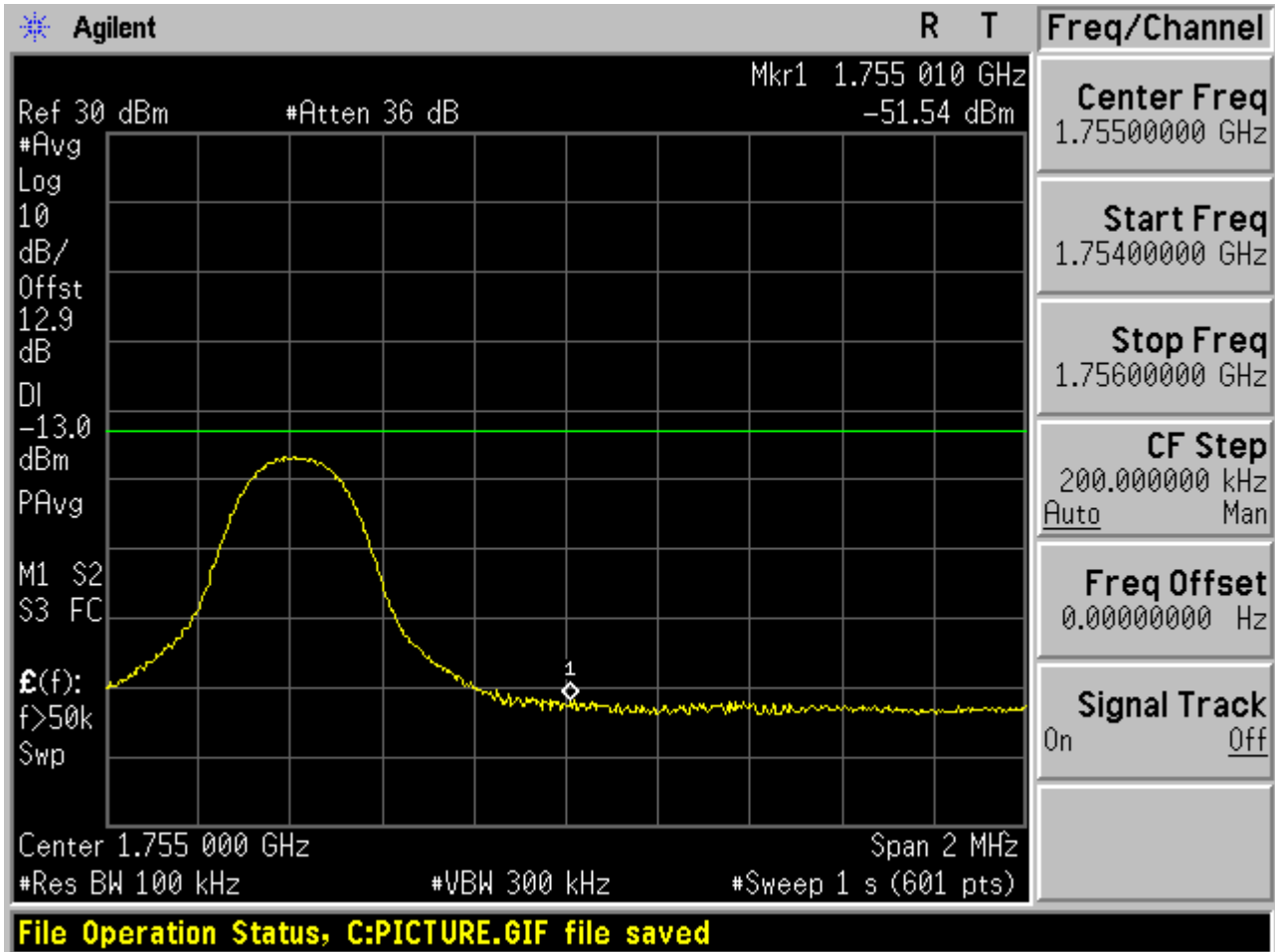
2.2.4.1.4 16QAM /full RBs





## 2.2.4.2 Channel= T

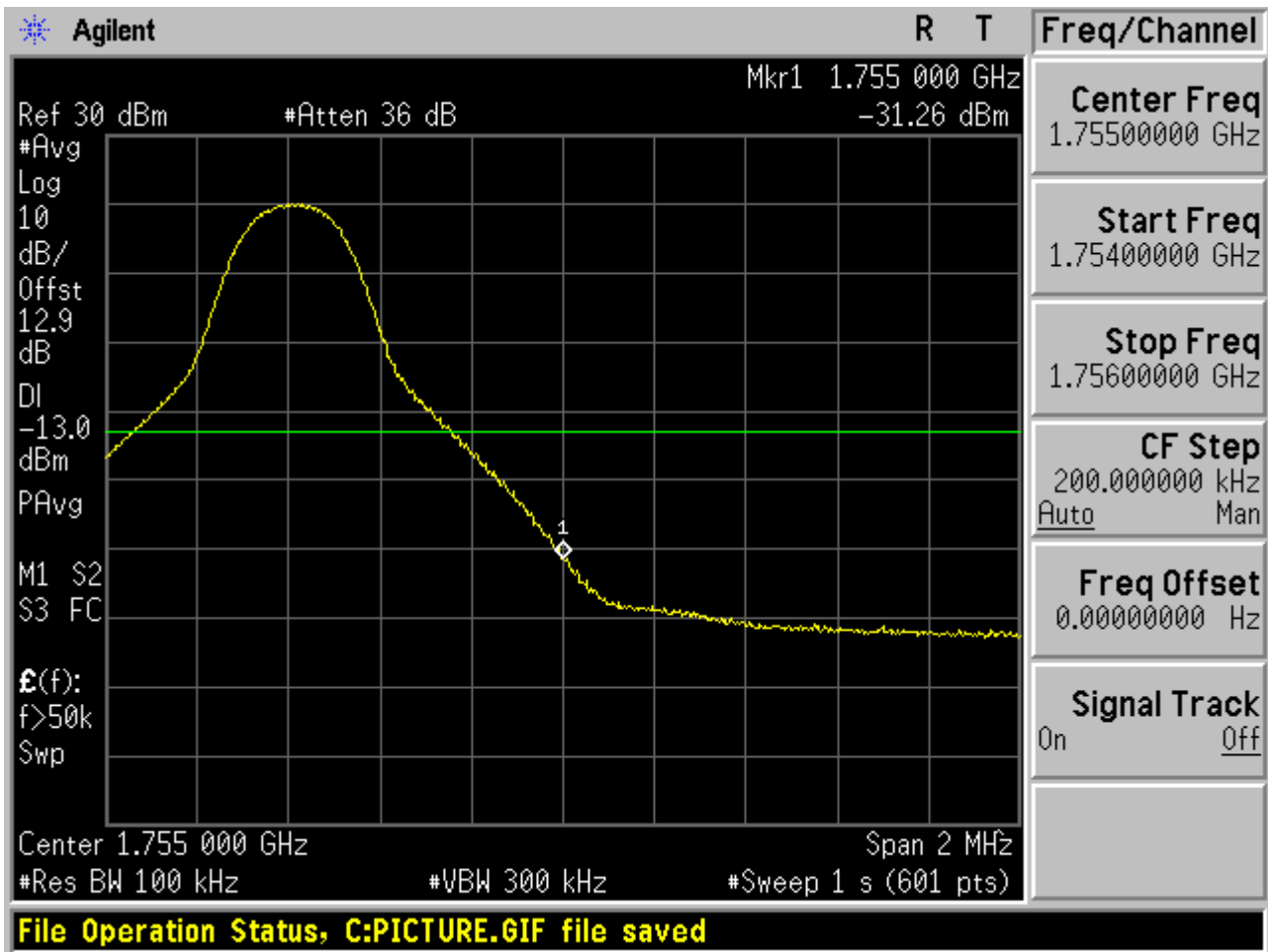
### 2.2.4.2.1 16QAM /1RB #0





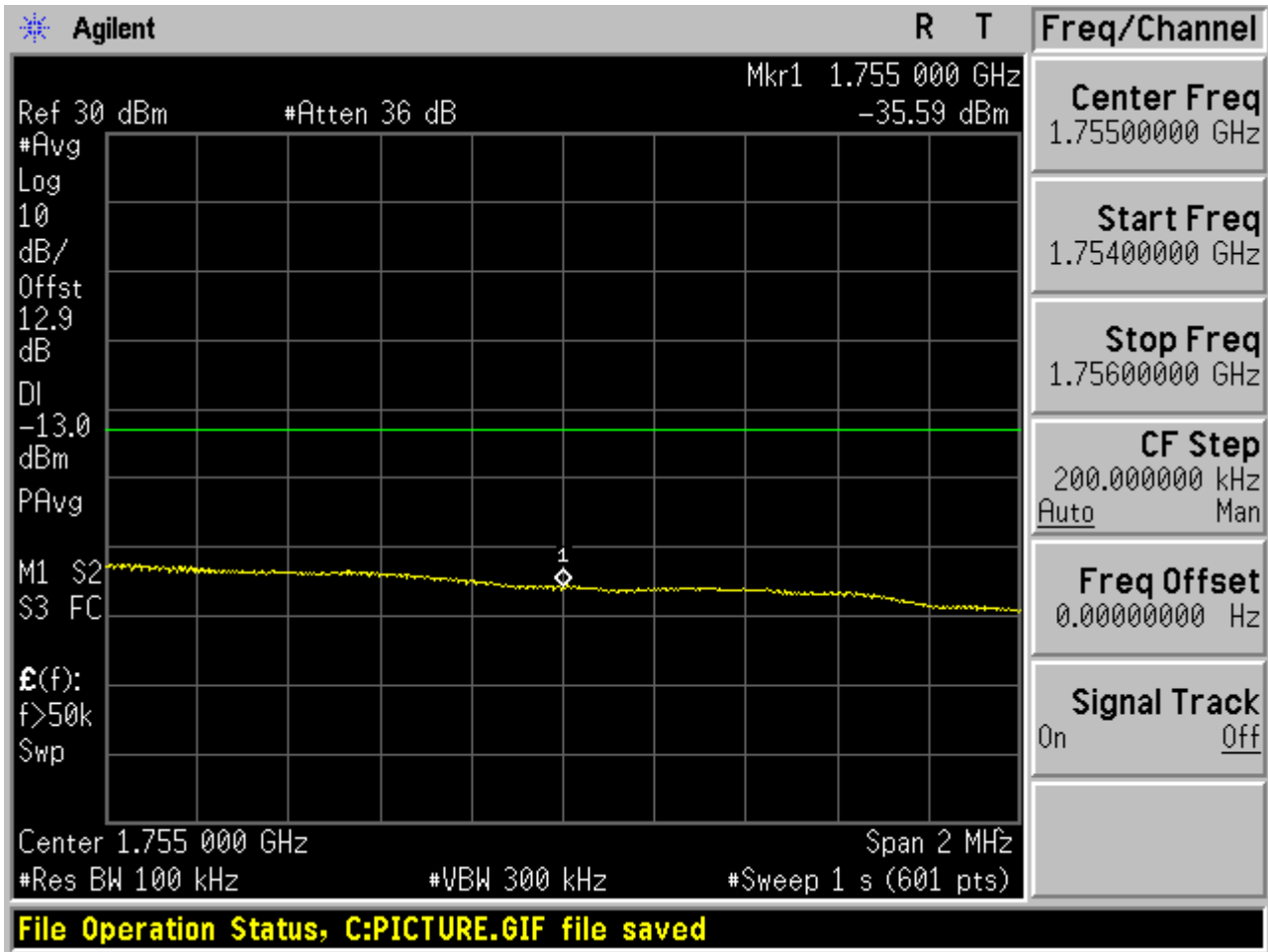


2.2.4.2.2 16QAM /1RB #max



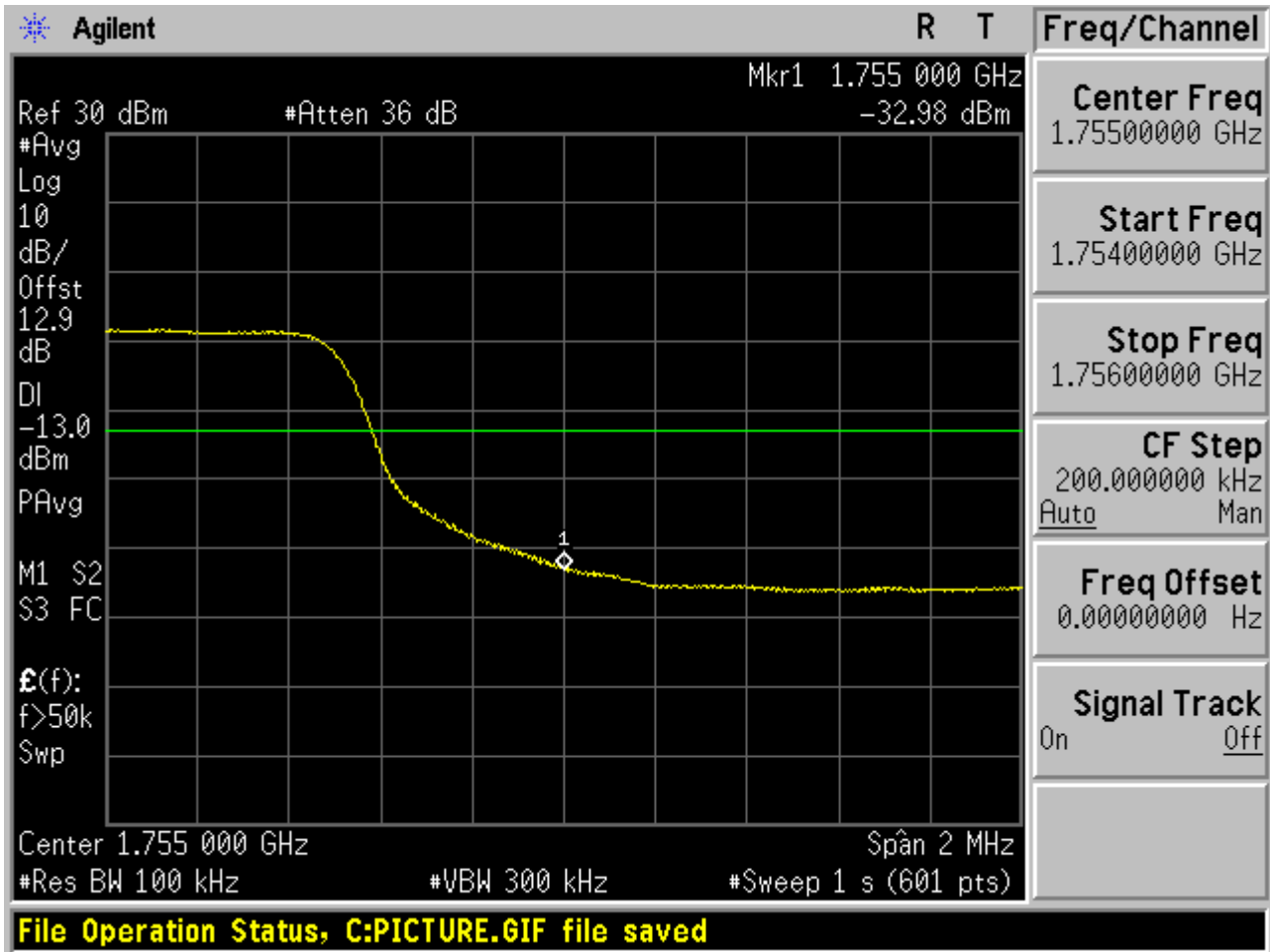


2.2.4.2.3 16QAM / non-1RB #mid/2





2.2.4.2.4 16QAM /full RBs

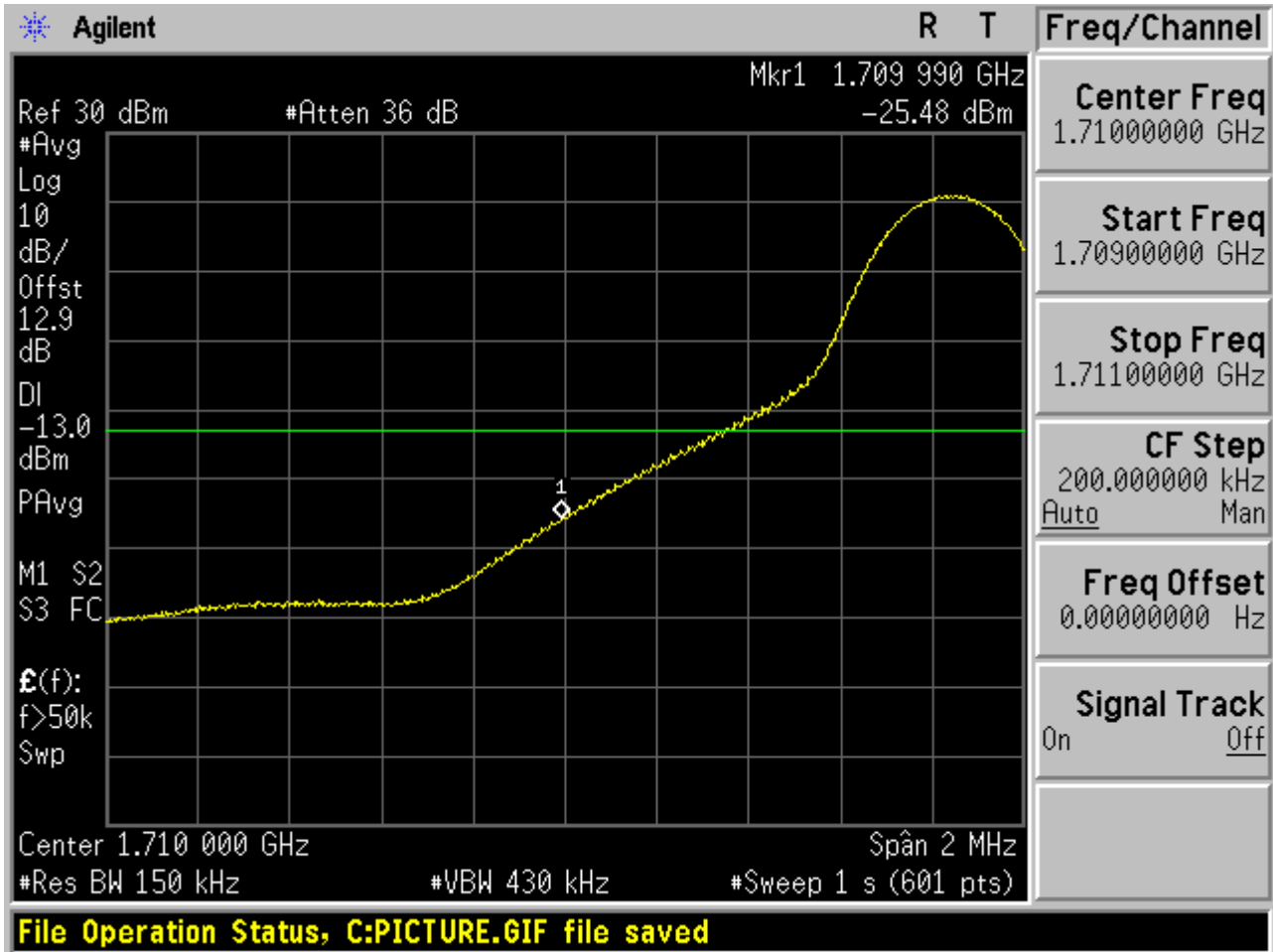




## 2.2.5 Channel Bandwidth = 15 MHz

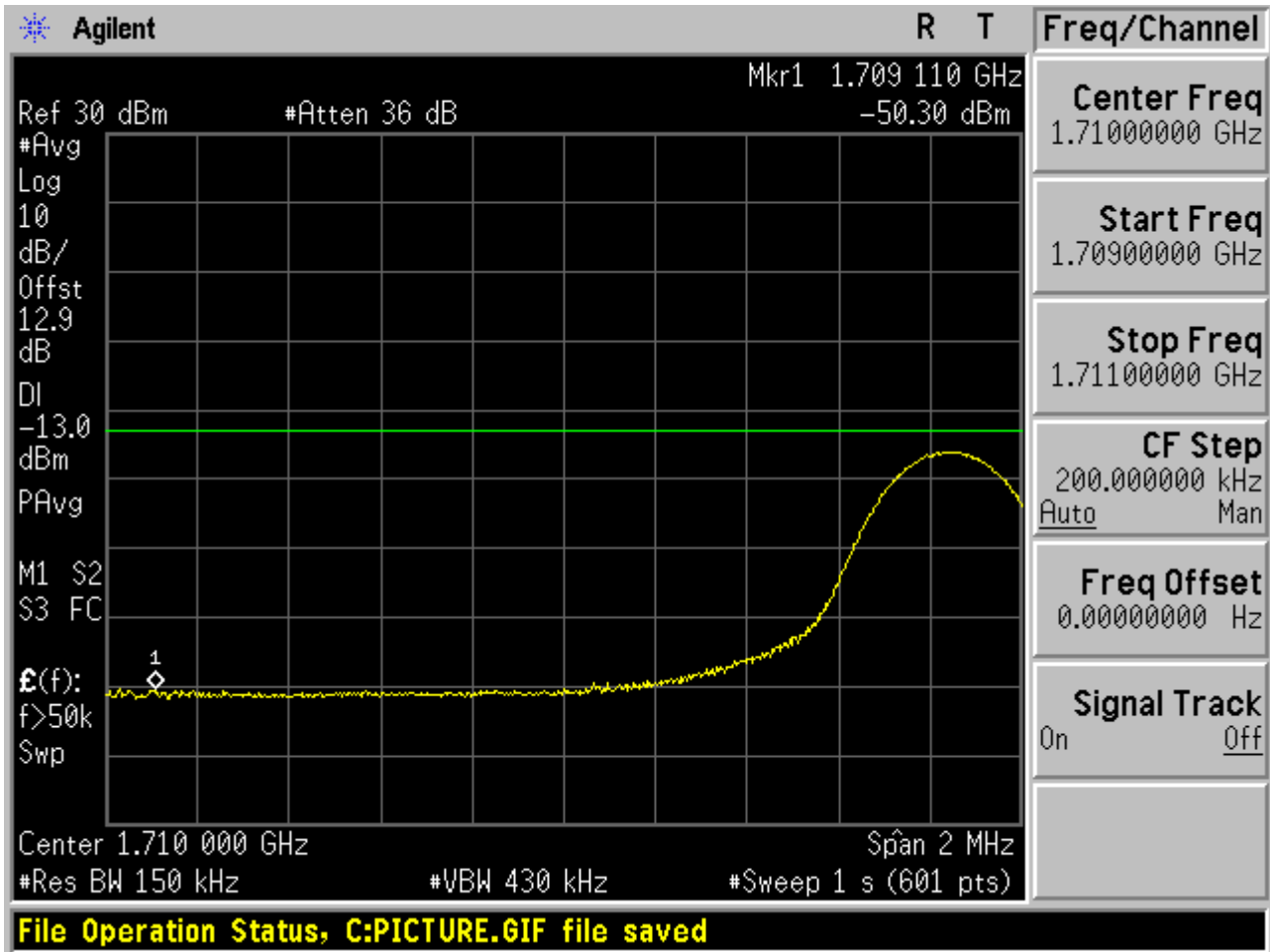
### 2.2.5.1 Channel= B

#### 2.2.5.1.1 16QAM/1RB #0



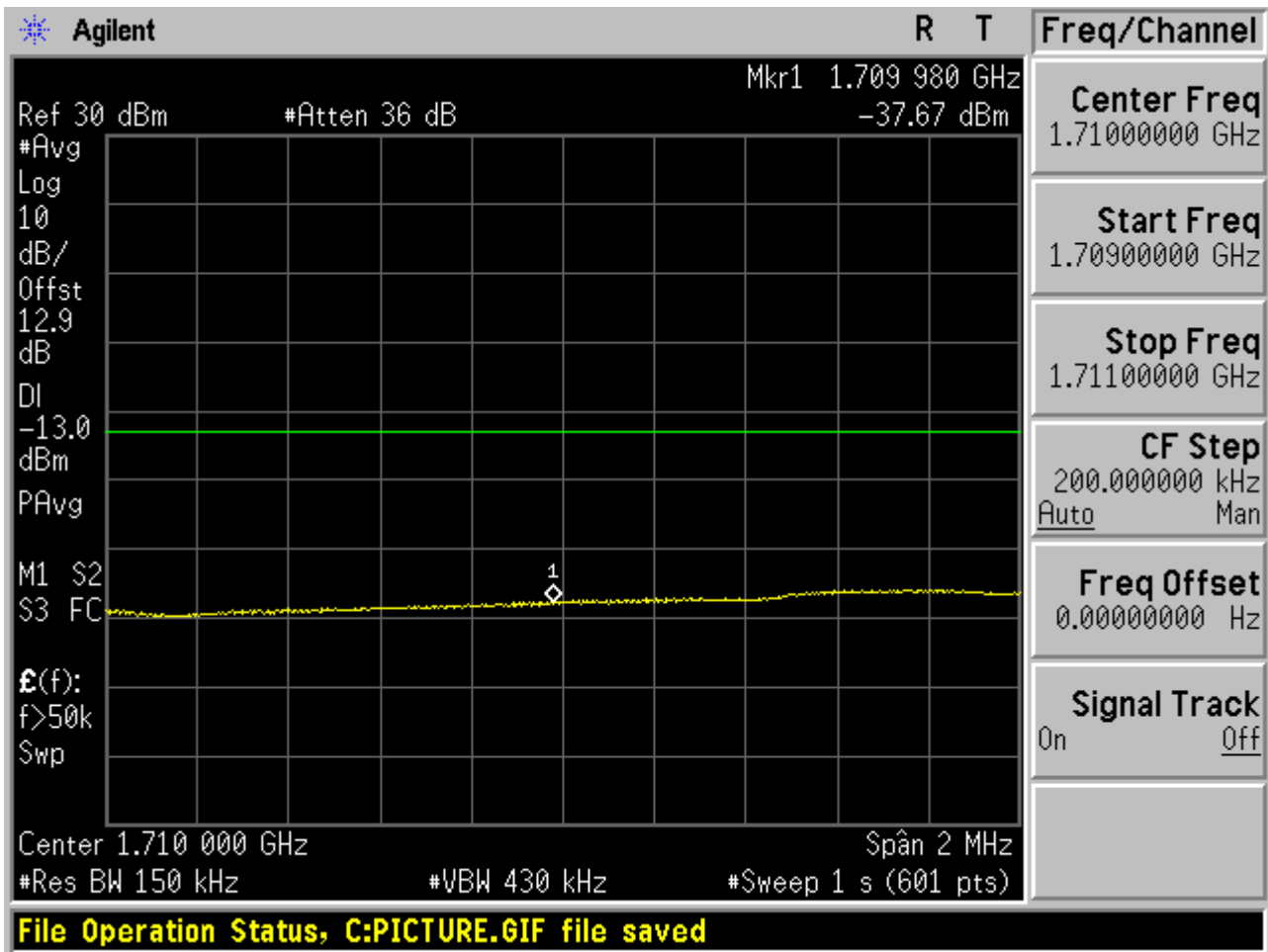


2.2.5.1.2 16QAM/1RB #max



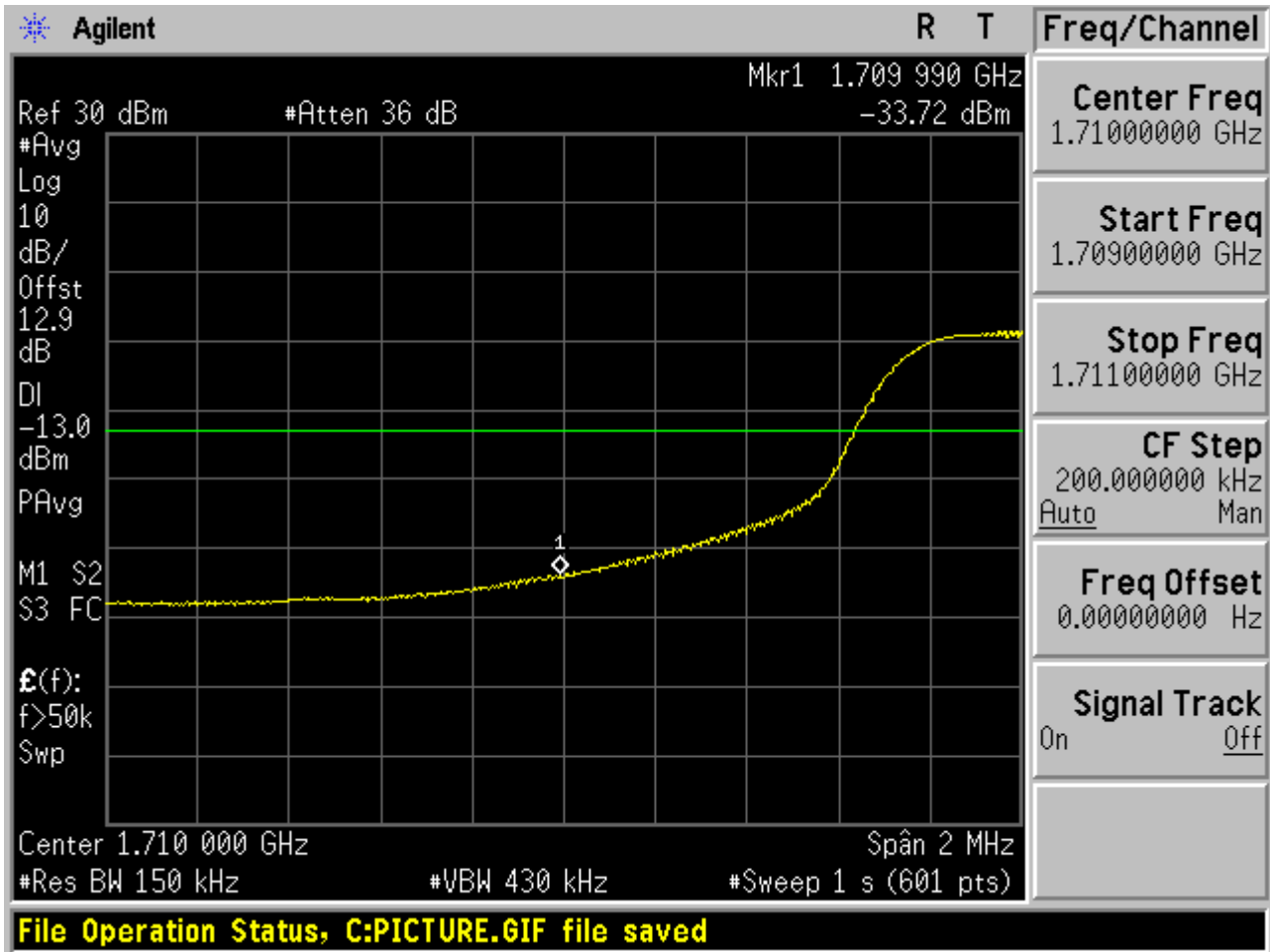


2.2.5.1.3 / non-1RB #mid/2





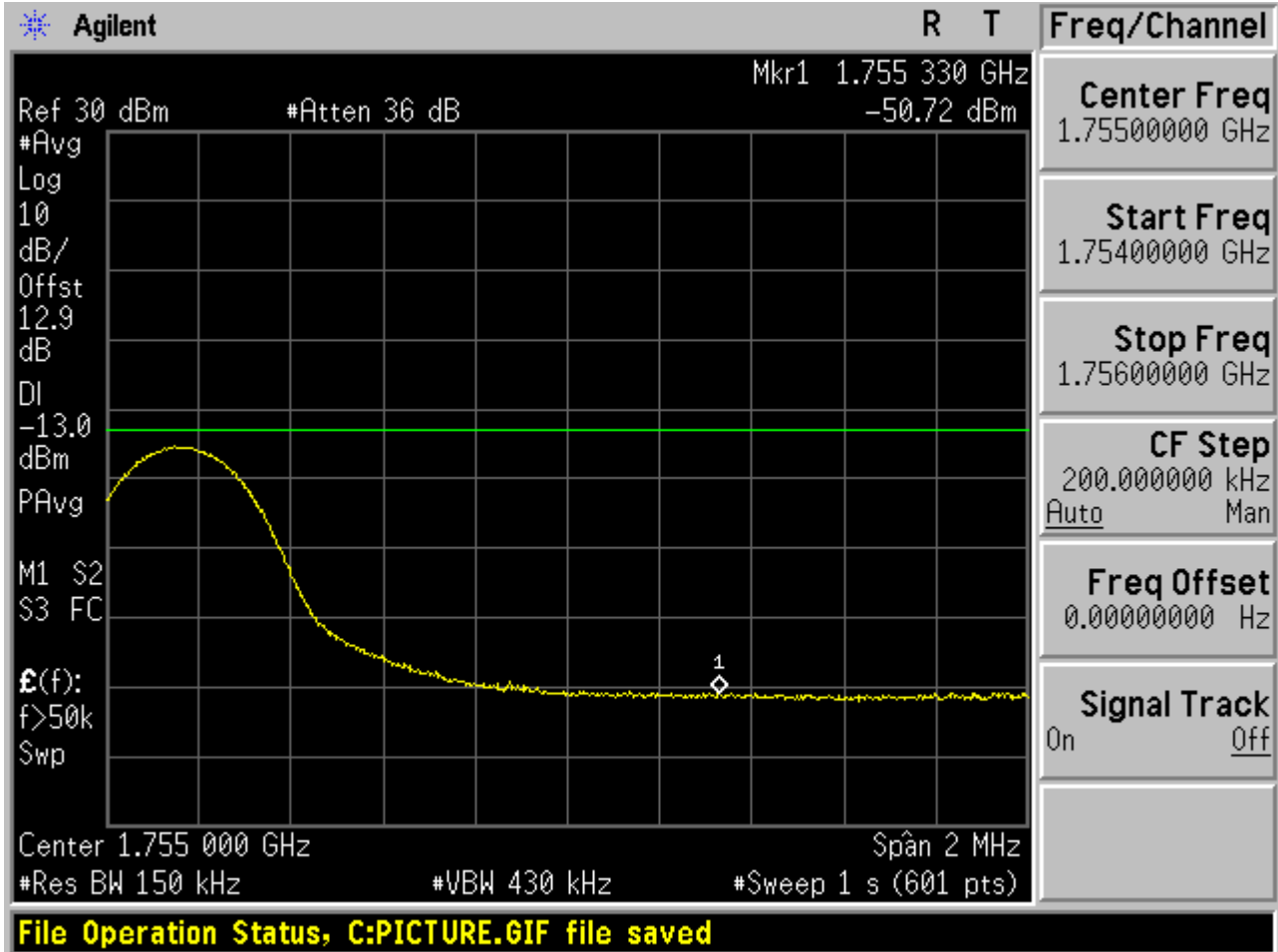
### 2.2.5.1.4 16QAM /full RBs





## 2.2.5.2 Channel= T

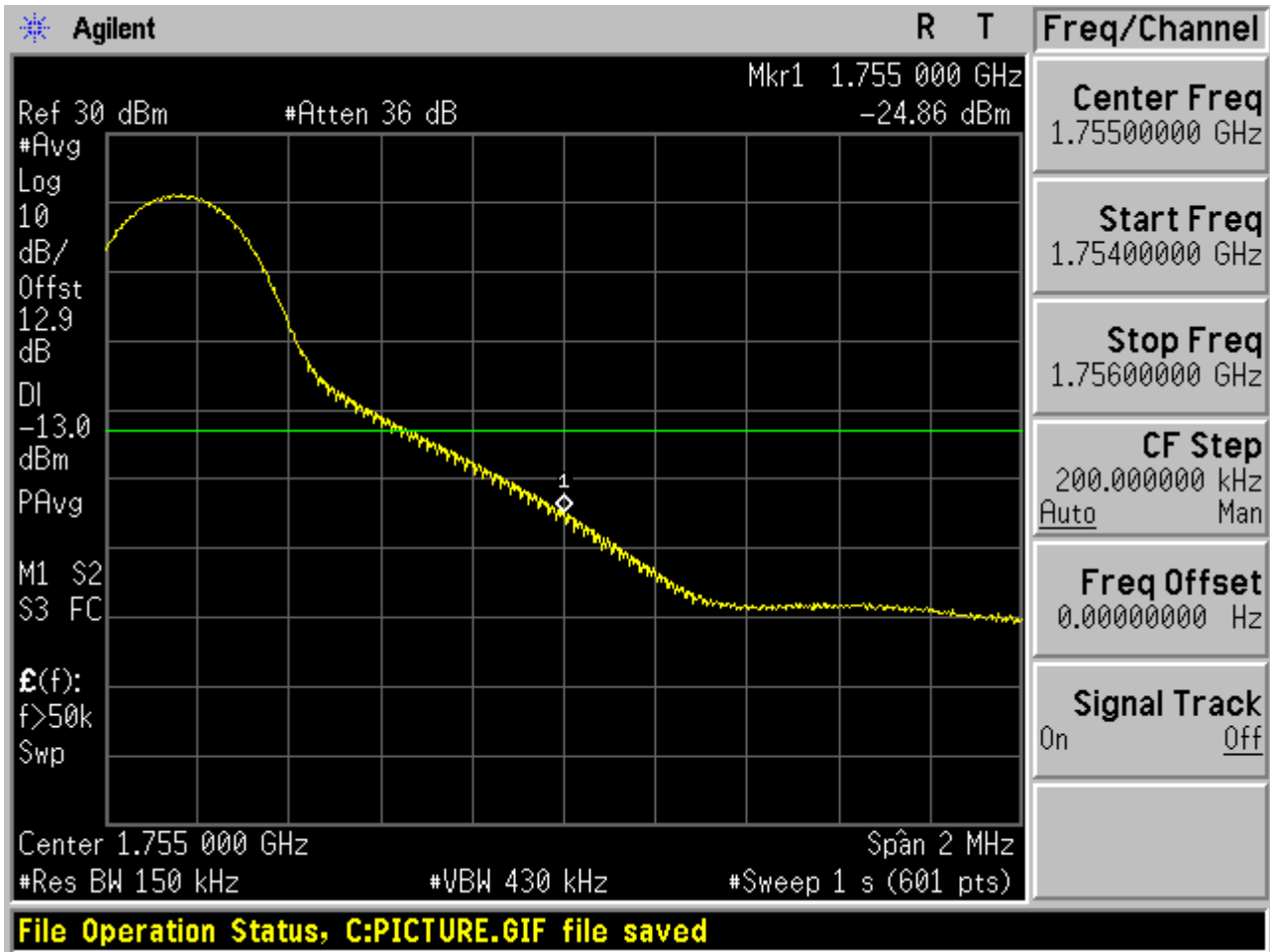
### 2.2.5.2.1 16QAM /1RB #0





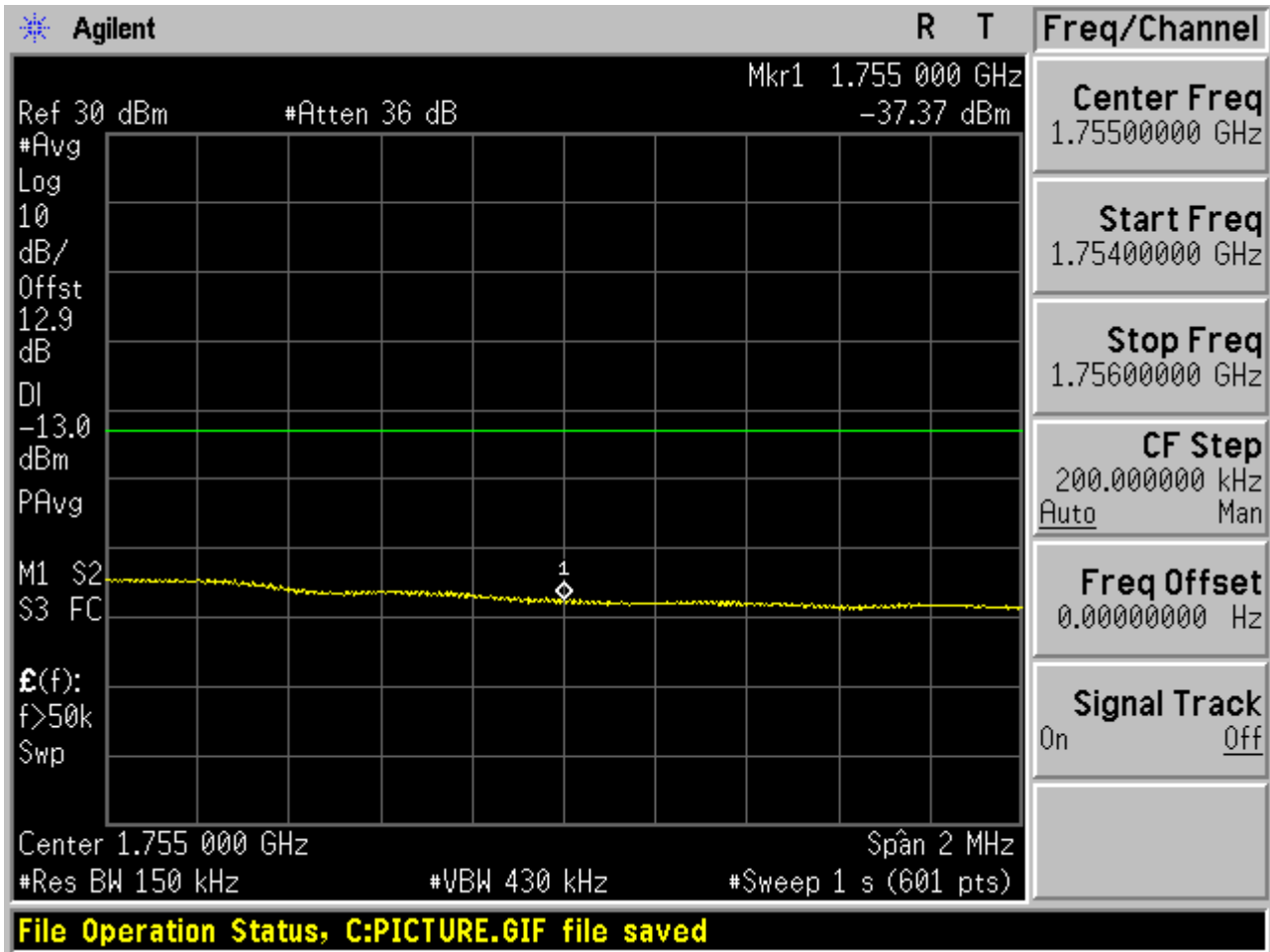


2.2.5.2.2 16QAM /1RB #max



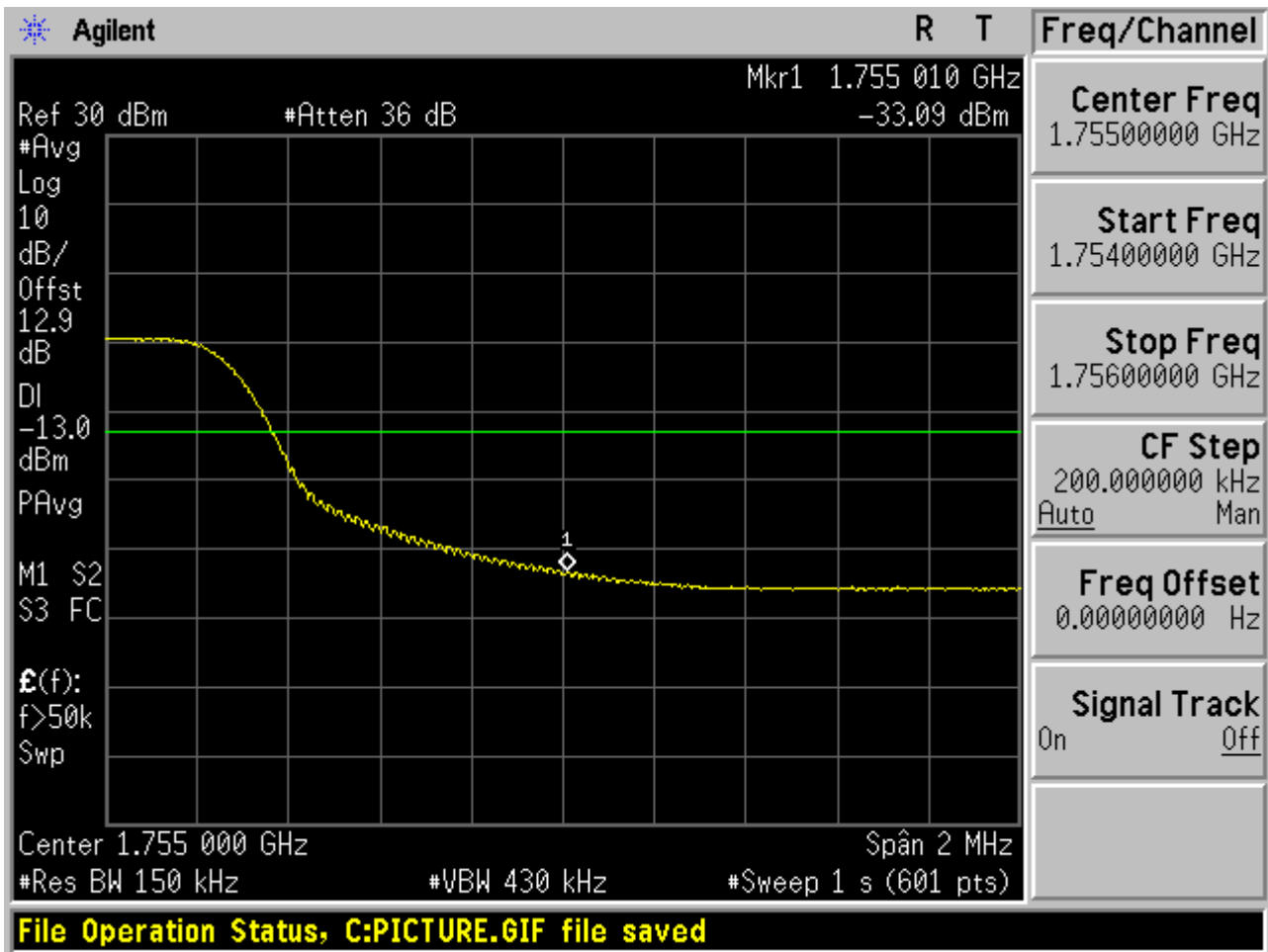


2.2.5.2.3 16QAM / non-1RB #mid/2





### 2.2.5.2.4 16QAM /full RBs

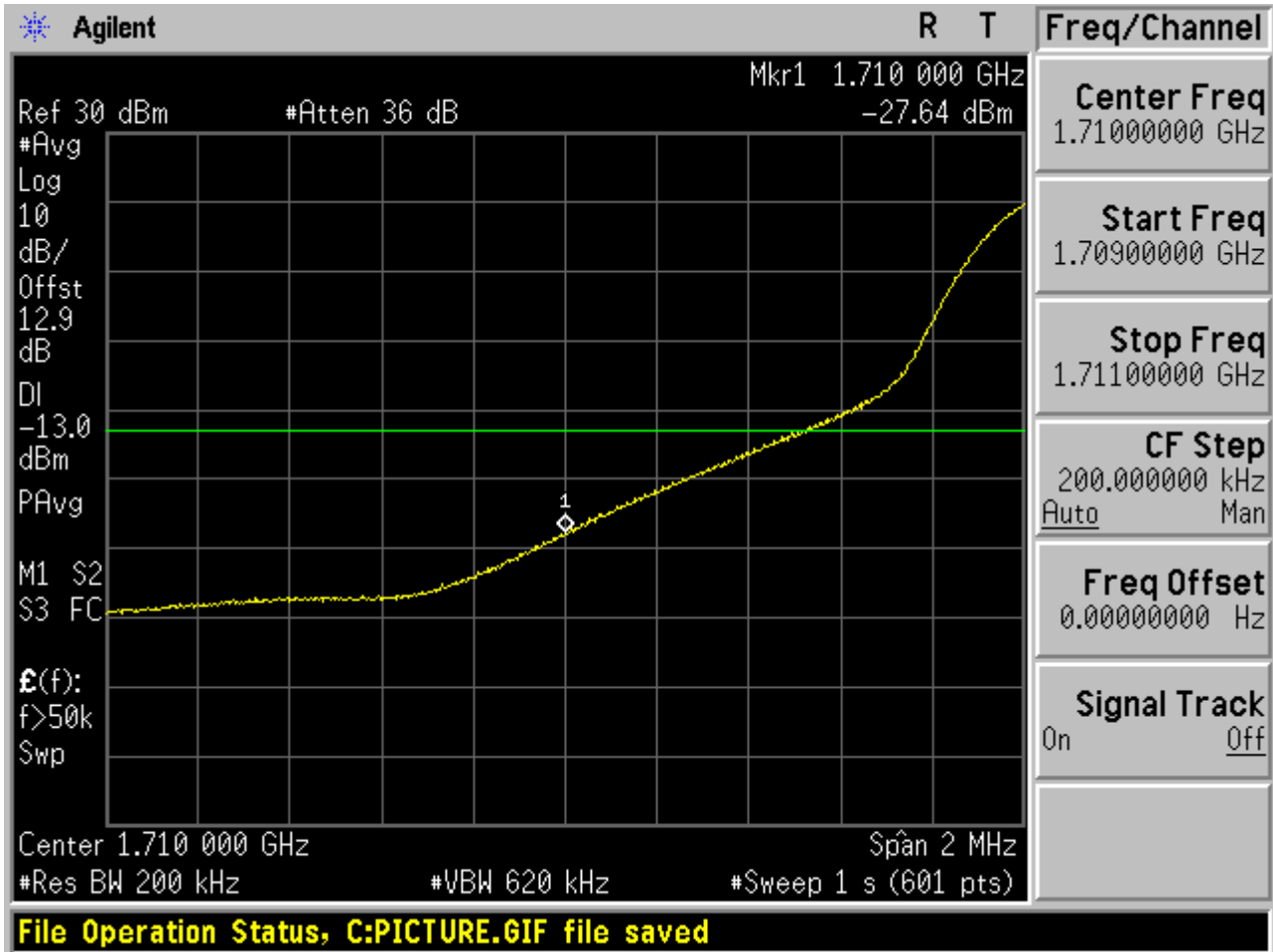




## 2.2.6 Channel Bandwidth = 20 MHz

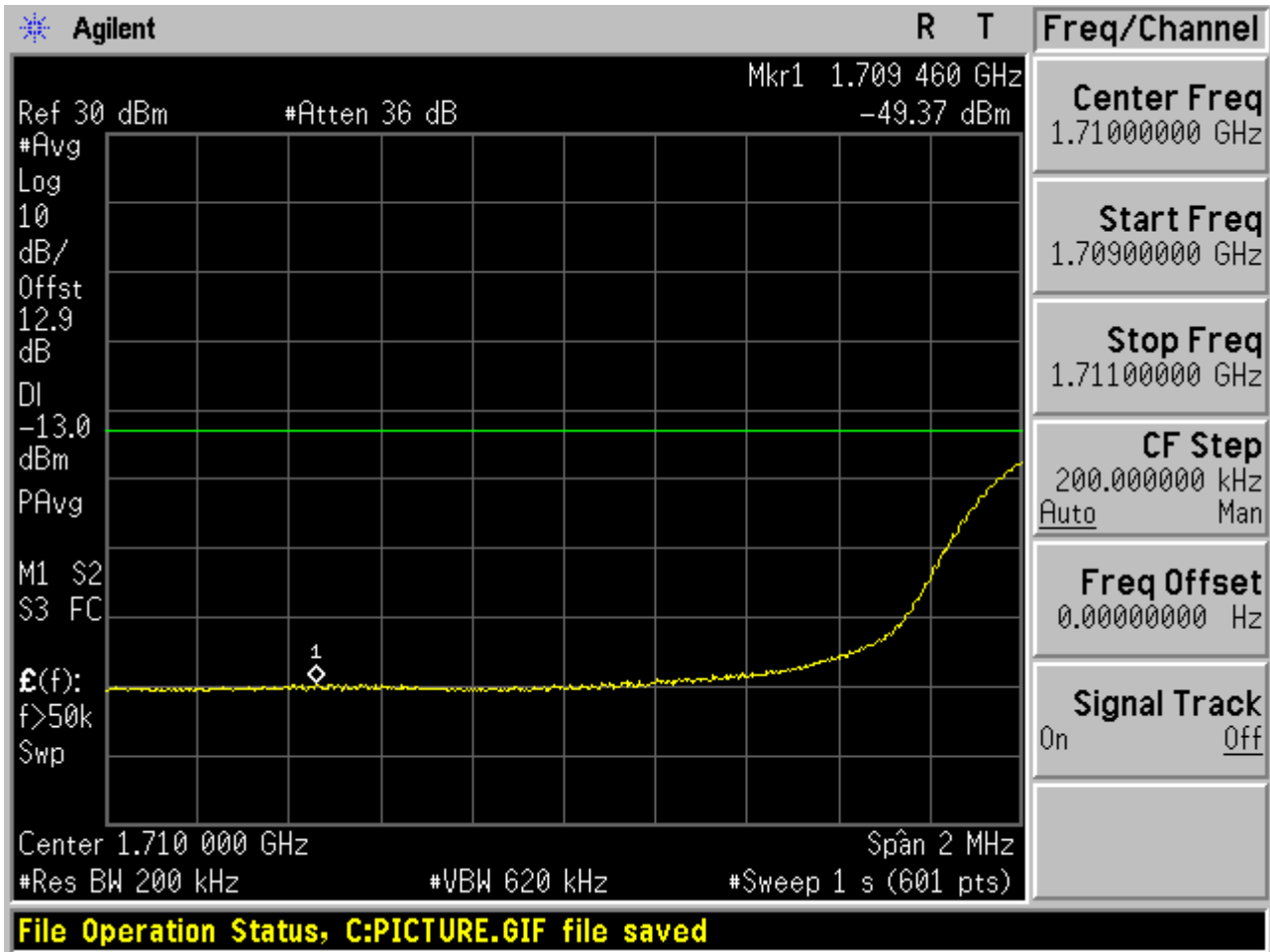
### 2.2.6.1 Channel= B

#### 2.2.6.1.1 16QAM/1RB #0



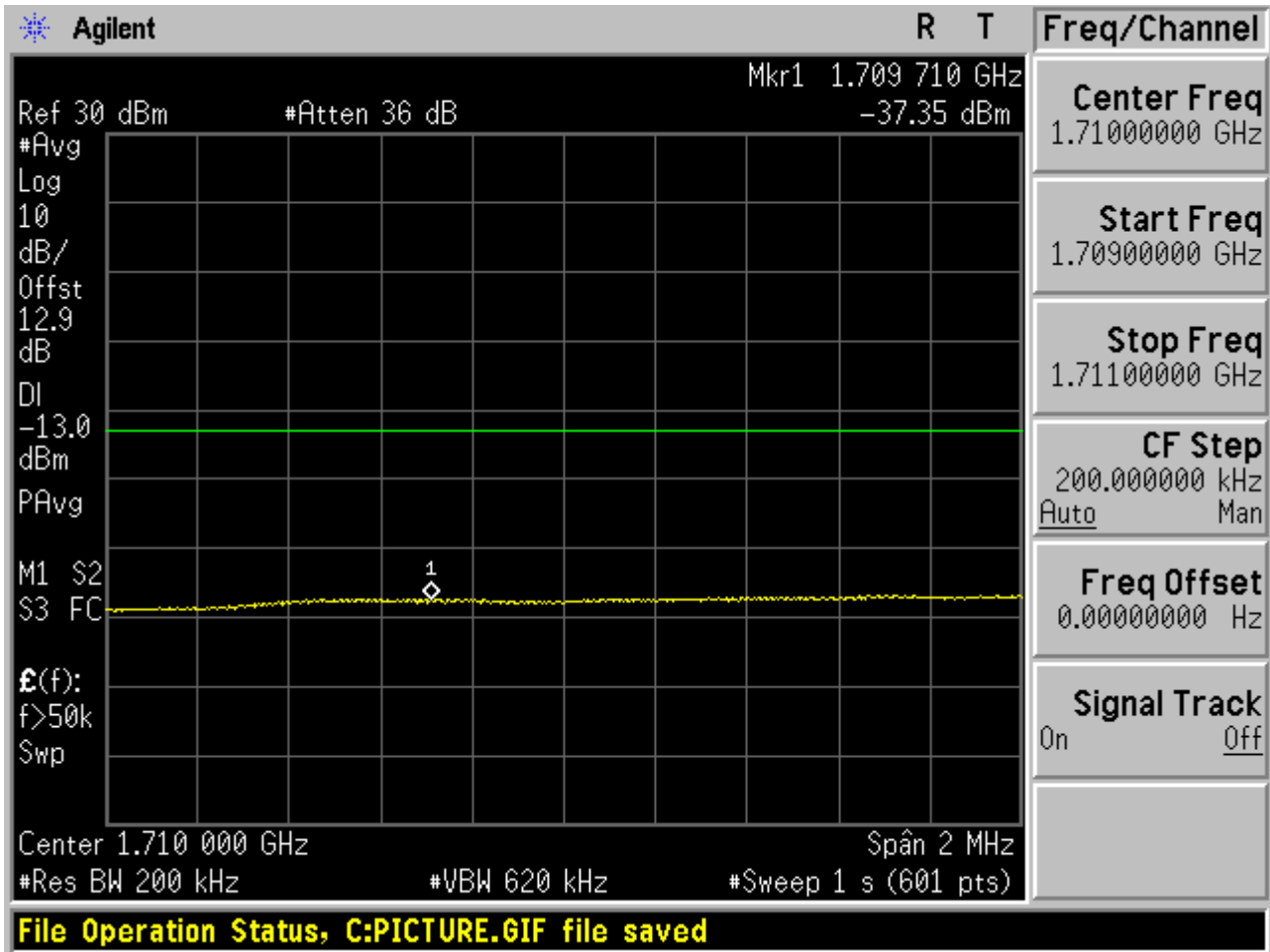


2.2.6.1.2 16QAM/1RB #max



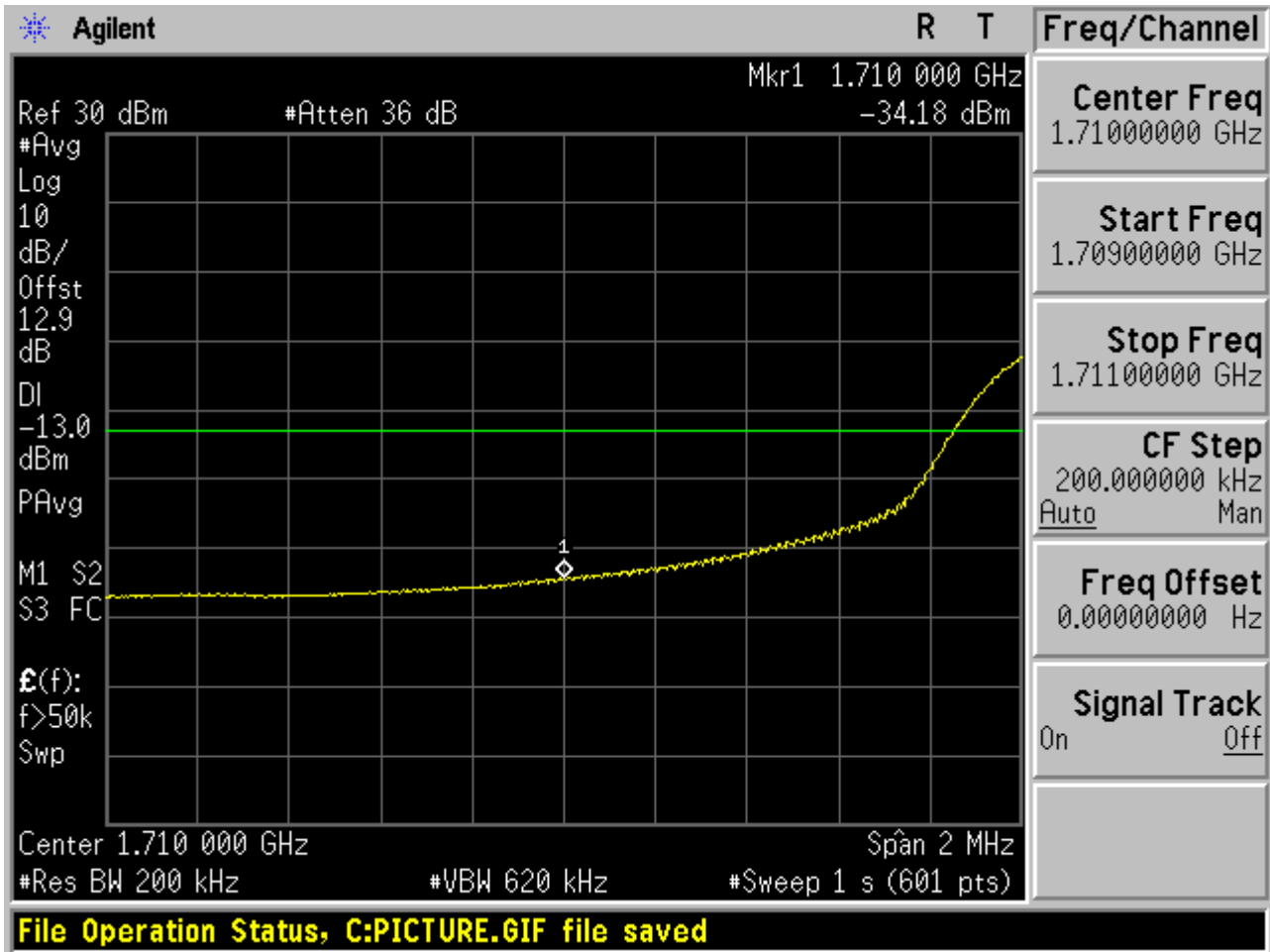


2.2.6.1.3 16QAM / non-1RB #mid/2





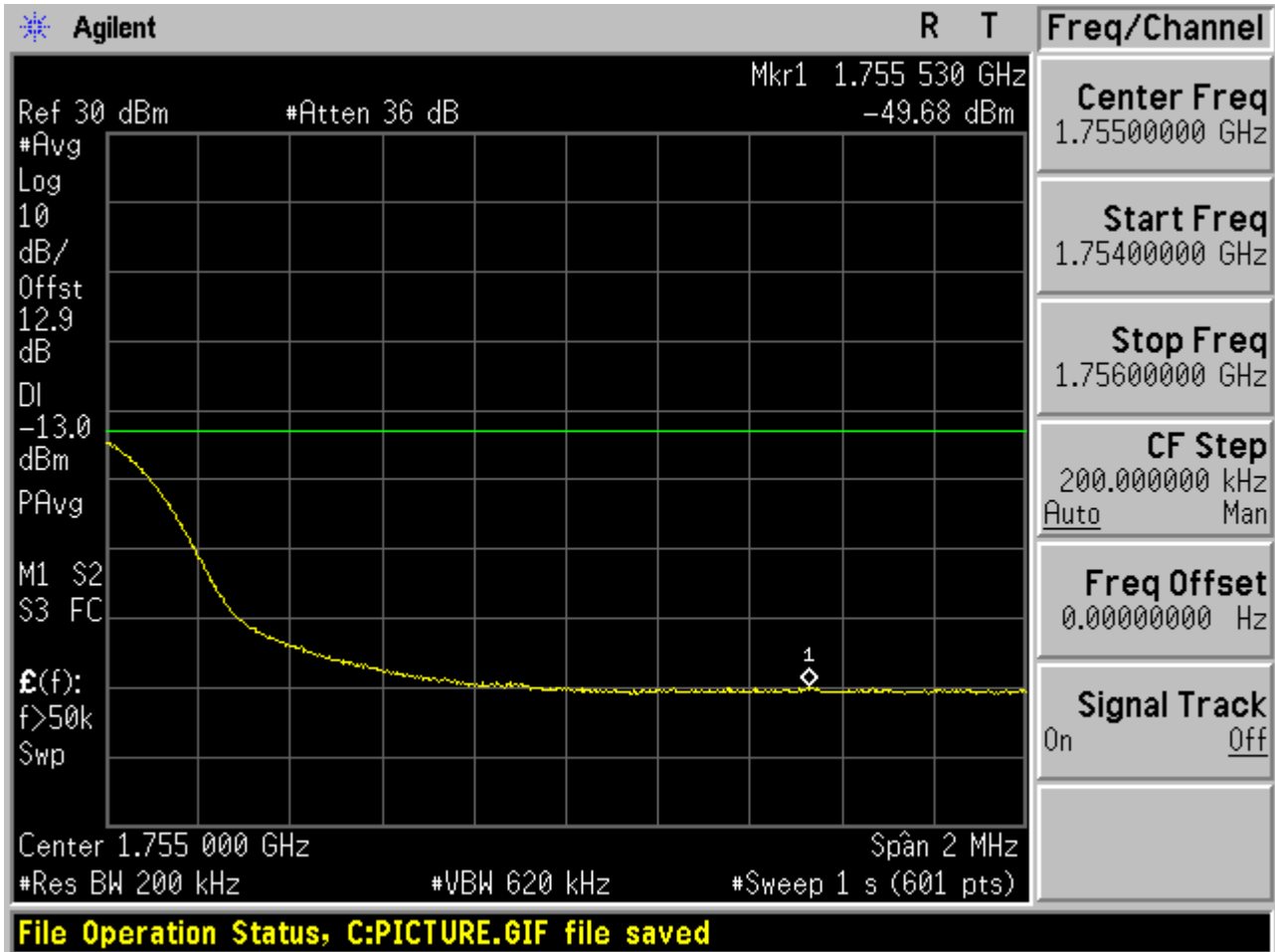
2.2.6.1.4 16QAM /full RBs





## 2.2.6.2 Channel= T

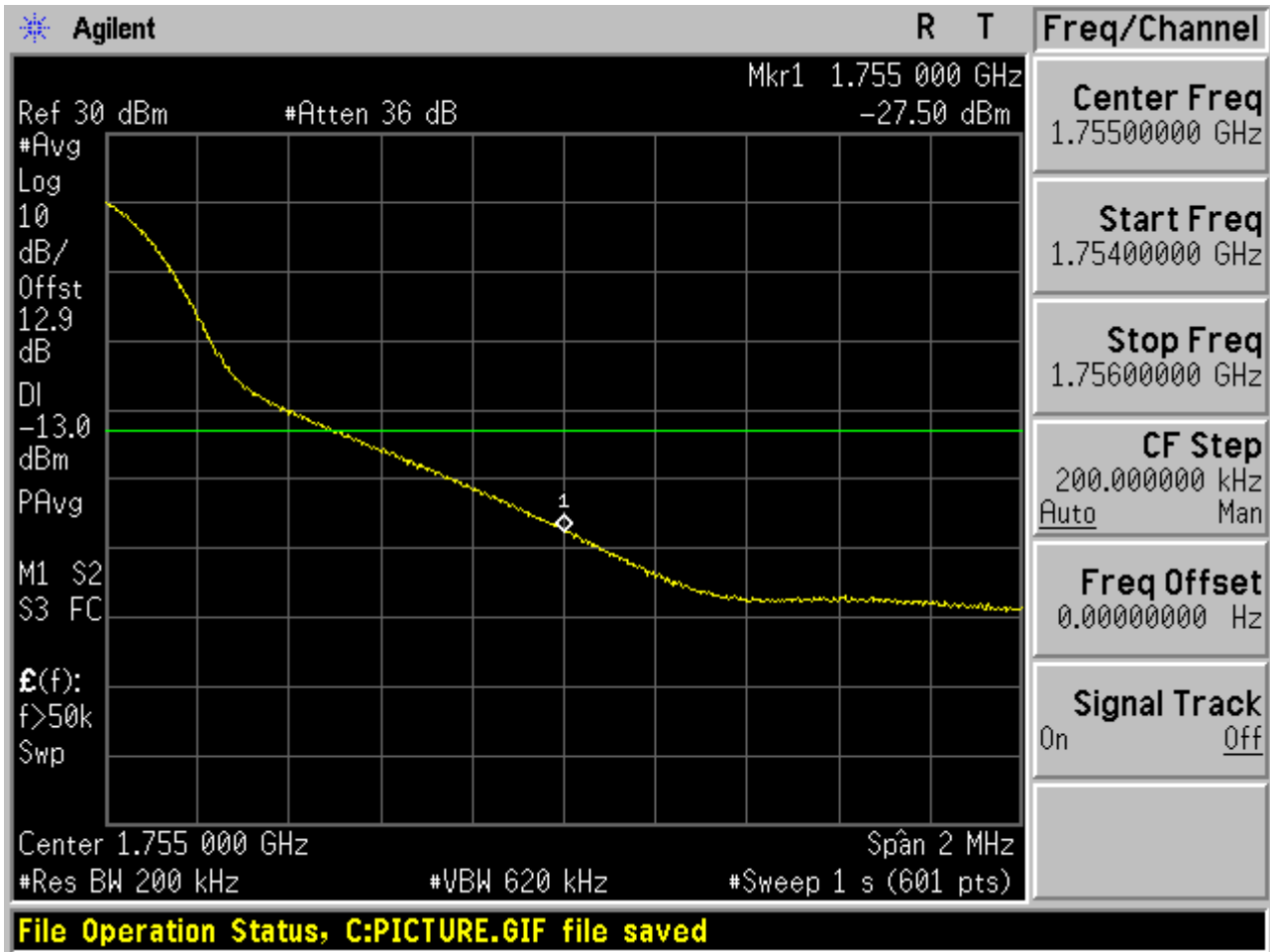
### 2.2.6.2.1 16QAM /1RB #0





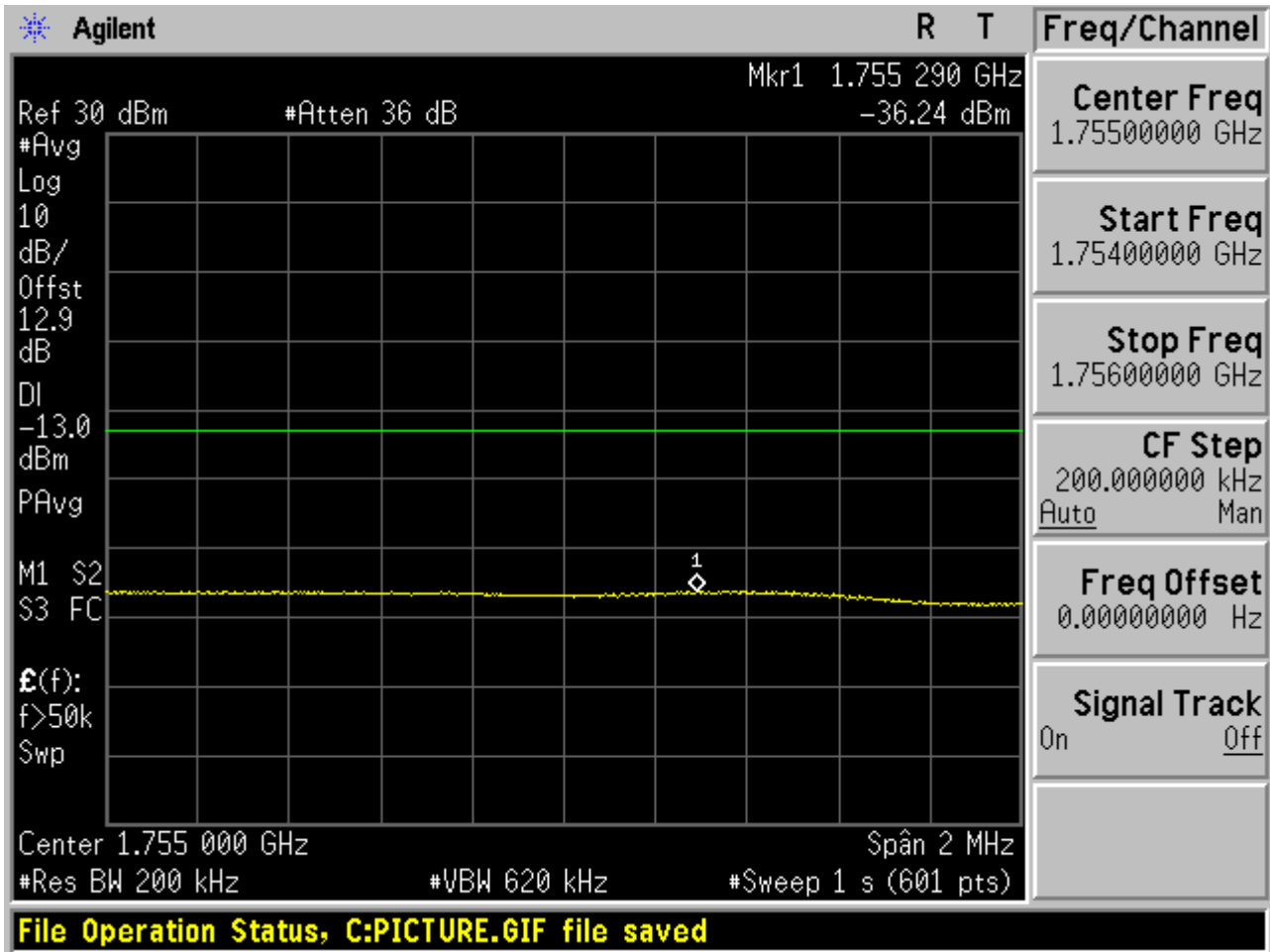


2.2.6.2.2 16QAM /1RB #max



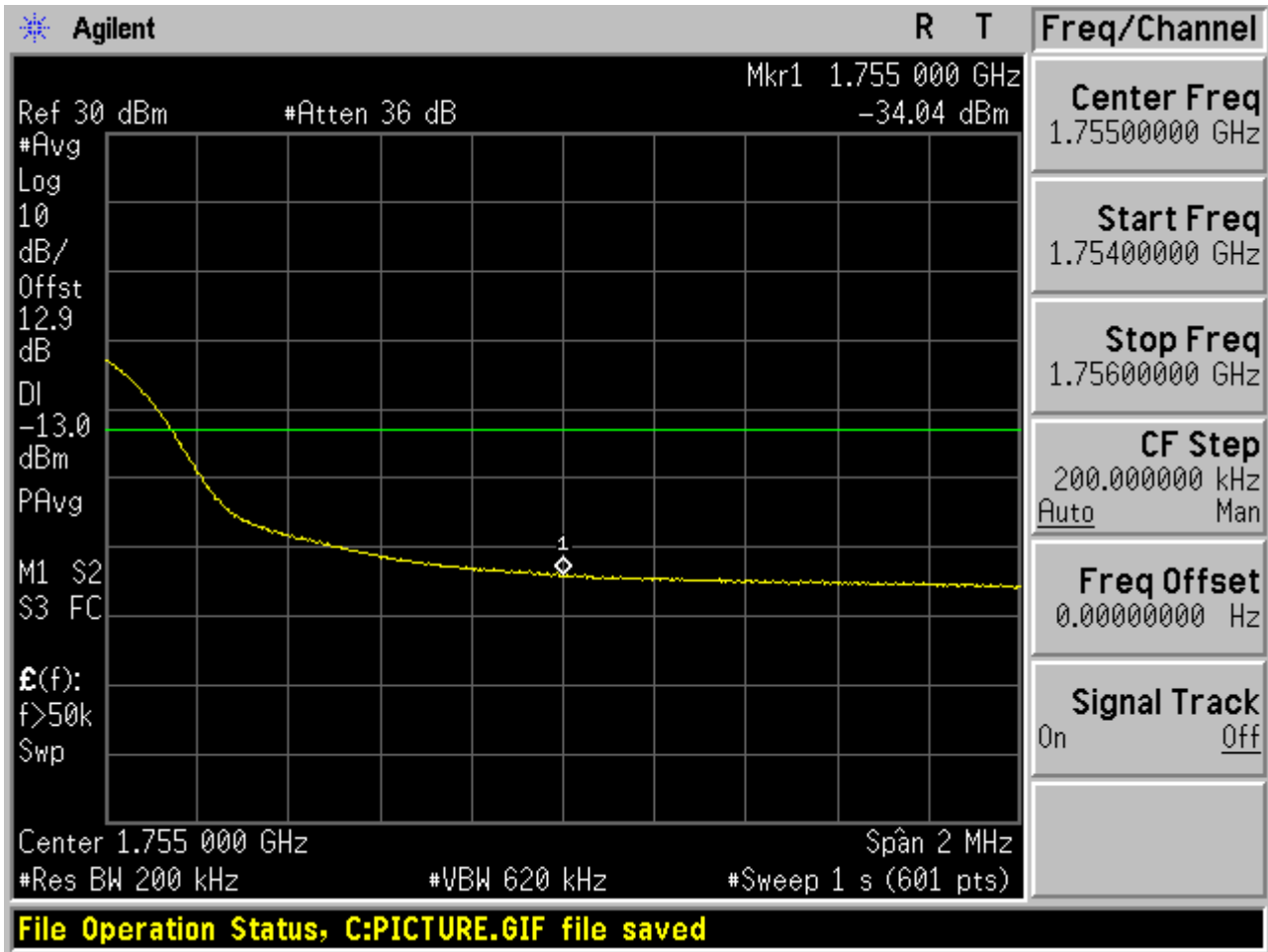


2.2.6.2.3 16QAM / non-1RB #mid/2





2.2.6.2.4 16QAM /full RBs



-----END-----



## Appendix E

# Spurious Emission at Antenna Terminal According to FCC Part 2.1051 & Part 27.53(h) & RSS-139



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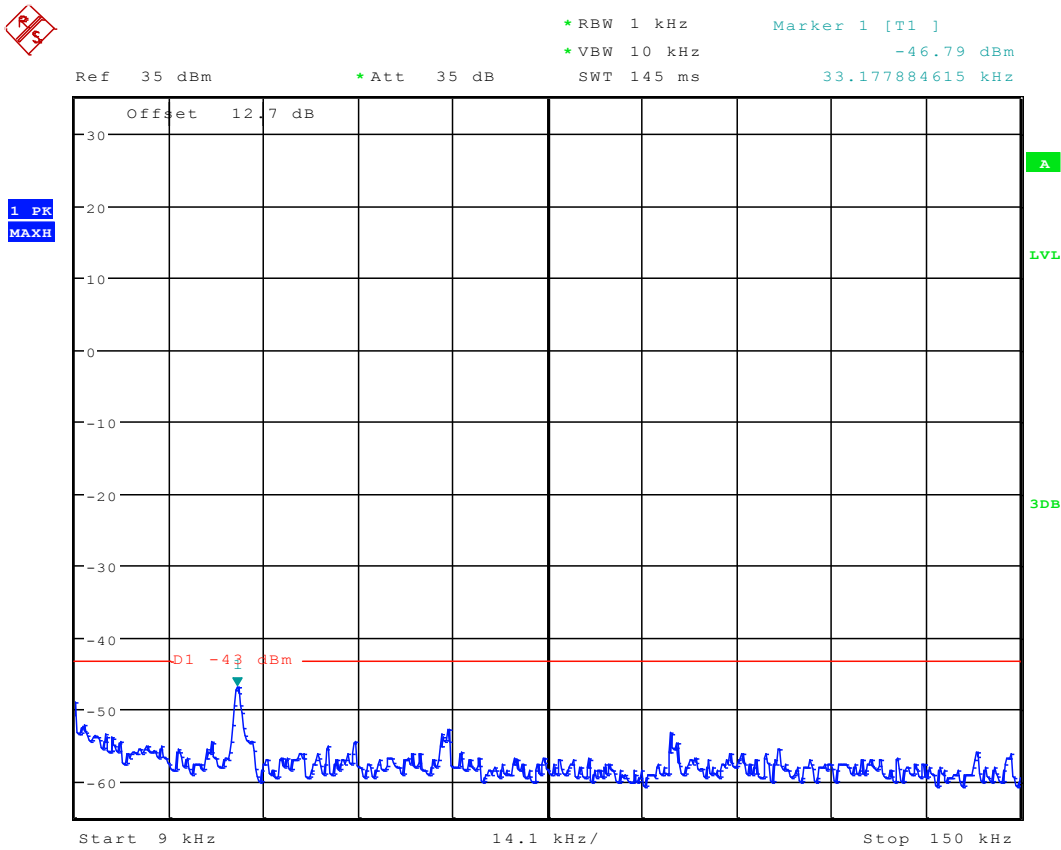
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2.2.4.2.1	16QAM/1RBs /RB #0	97
2.2.4.3	Channel= T	100
2.2.4.3.1	16QAM/1RBs /RB #0	100
2.2.5	Channel Bandwidth = 15 MHz	103
2.2.5.1	Channel= B	103
2.2.5.1.1	16QAM/1RBs /RB #0	103
2.2.5.2	Channel = M	106
2.2.5.2.1	16QAM/1RBs /RB #0	106
2.2.5.3	Channel= T	109
2.2.5.3.1	16QAM/1RBs /RB #0	109
2.2.6	Channel Bandwidth = 20 MHz	112
2.2.6.1	Channel= B	112
2.2.6.1.1	16QAM/1RBs /RB #0	112
2.2.6.2	Channel = M	115
2.2.6.2.1	16QAM/1RBs /RB #0	115
2.2.6.3	Channel= T	118
2.2.6.3.1	16QAM/1RBs /RB #0	118



# 1 For WCDMA Band 4

## 1.1 Test Mode=TM1

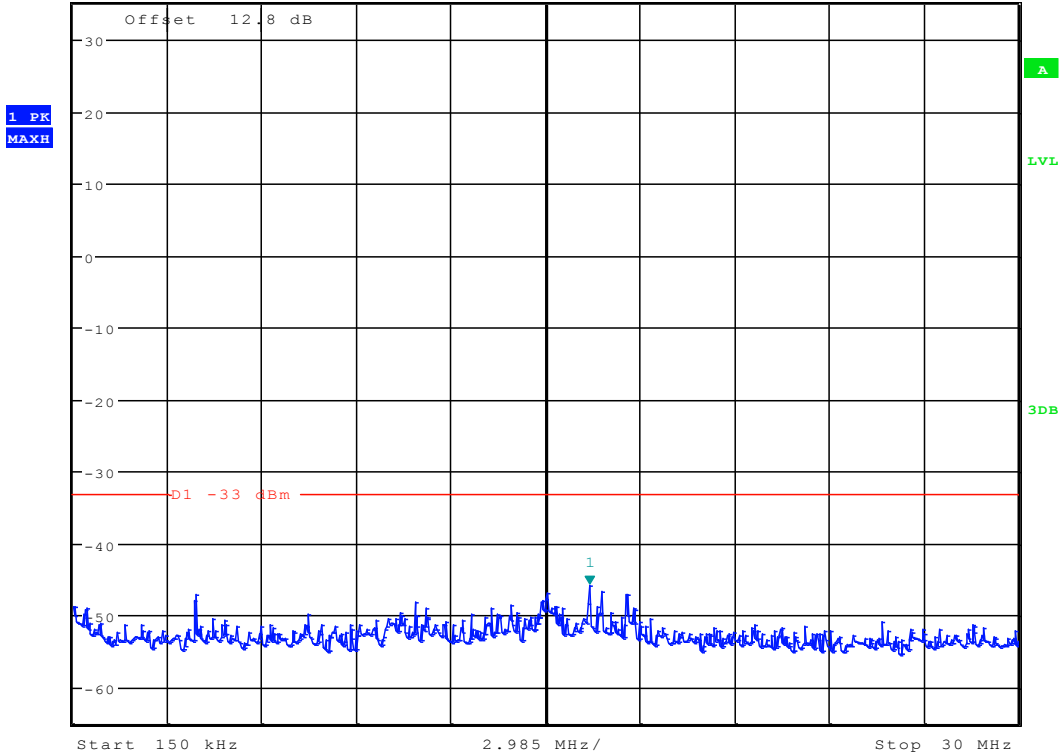
### 1.1.1 Channel = B



Date: 14.SEP.2012 09:47:30



\* RBW 10 kHz      Marker 1 [T1 ]  
 \* VBW 30 kHz      -45.88 dBm  
 Ref 35 dBm      \* Att 35 dB      SWT 300 ms      16.462259615 MHz

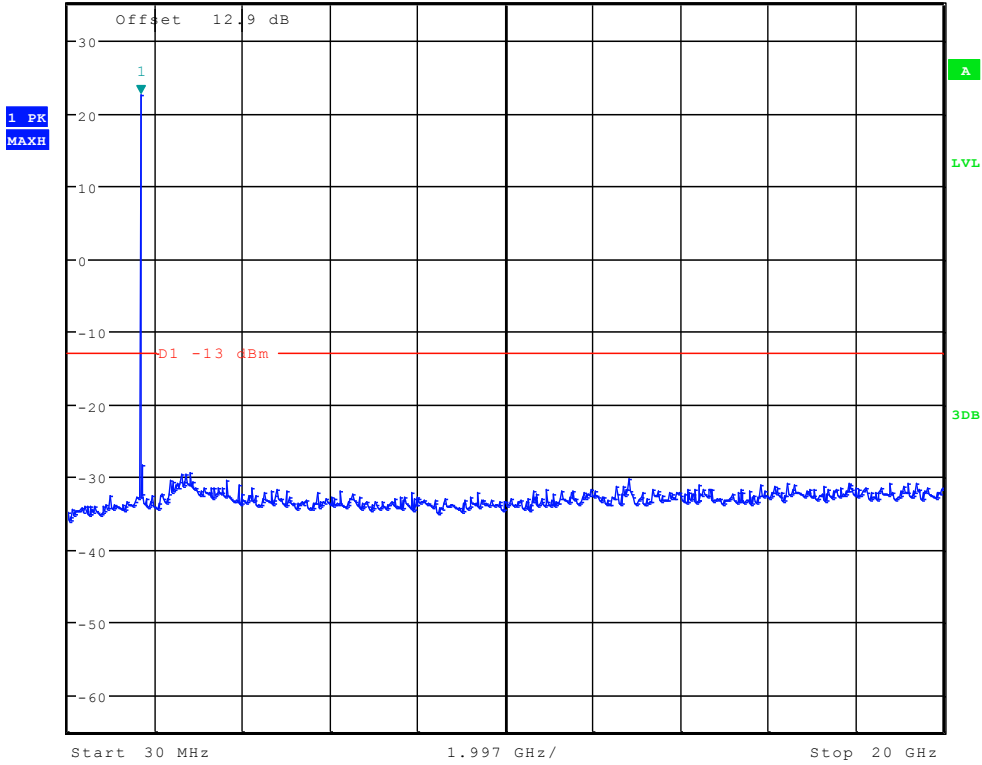


Date: 14.SEP.2012 09:48:14





\* RBW 1 MHz      Marker 1 [T1 ]  
\* VBW 3 MHz      22.50 dBm  
Ref 35 dBm      \* Att 35 dB      SWT 115 ms      1.694166667 GHz



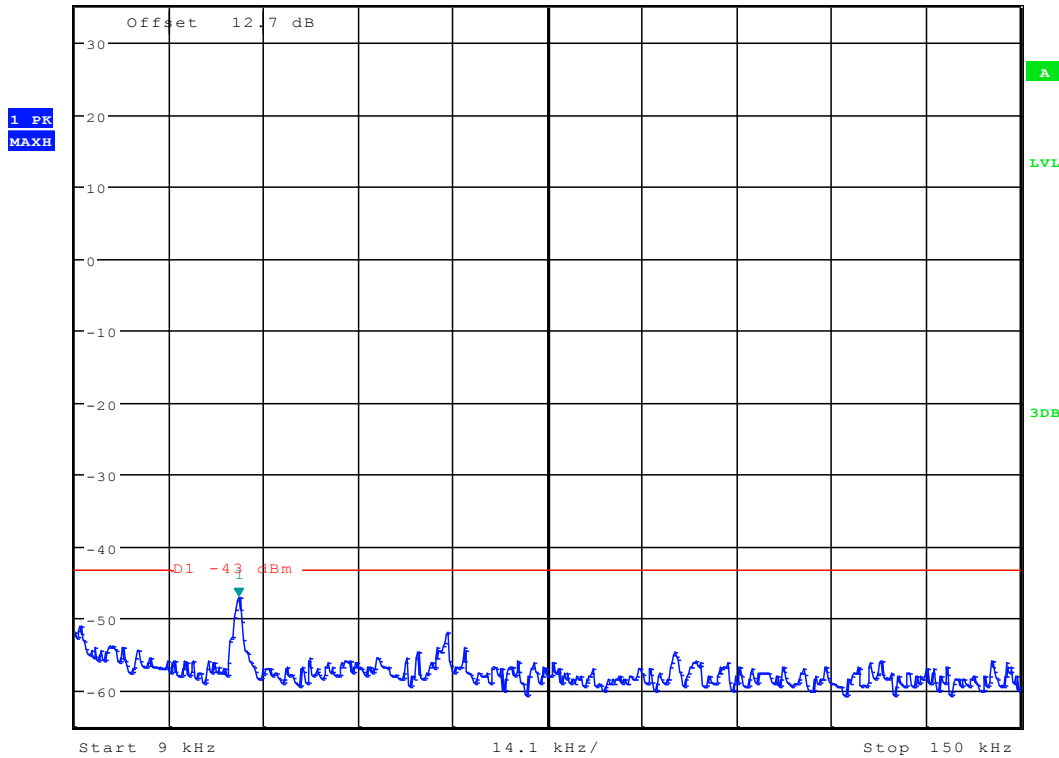
Date: 29.AUG.2012 14:42:27



### 1.1.2 Channel = M



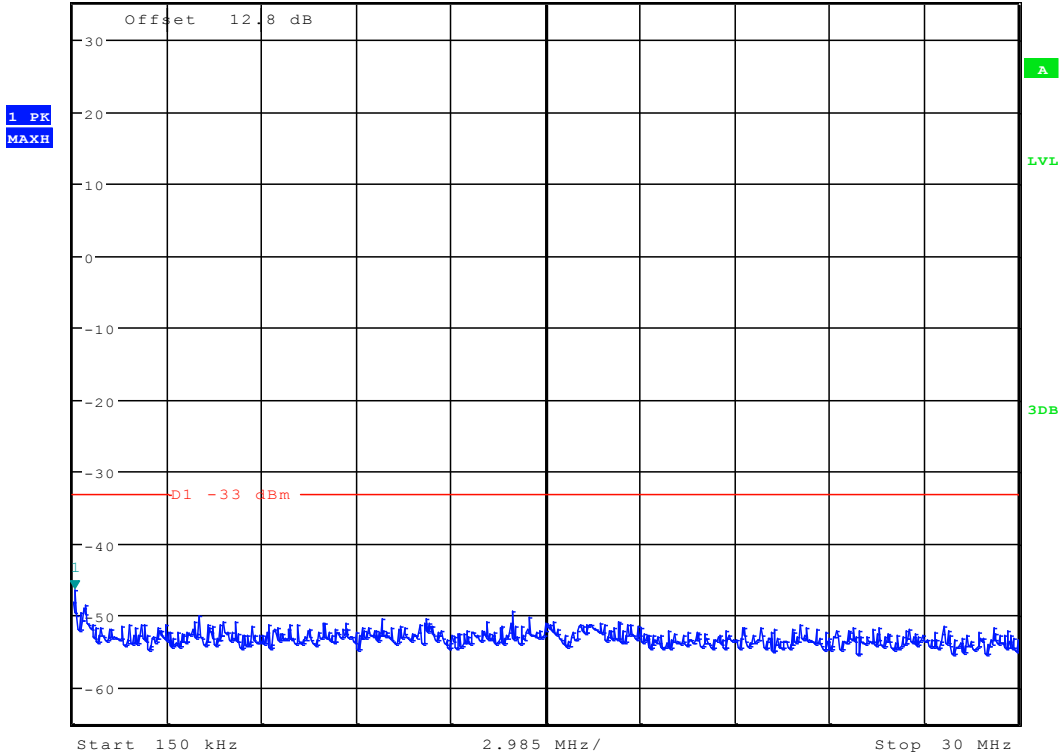
\*RBW 1 kHz                      Marker 1 [T1 ]  
 \*VBW 10 kHz                    -46.96 dBm  
 Ref 35 dBm                      \*Att 35 dB                      SWT 145 ms                      33.403846154 kHz



Date: 14.SEP.2012 09:47:45



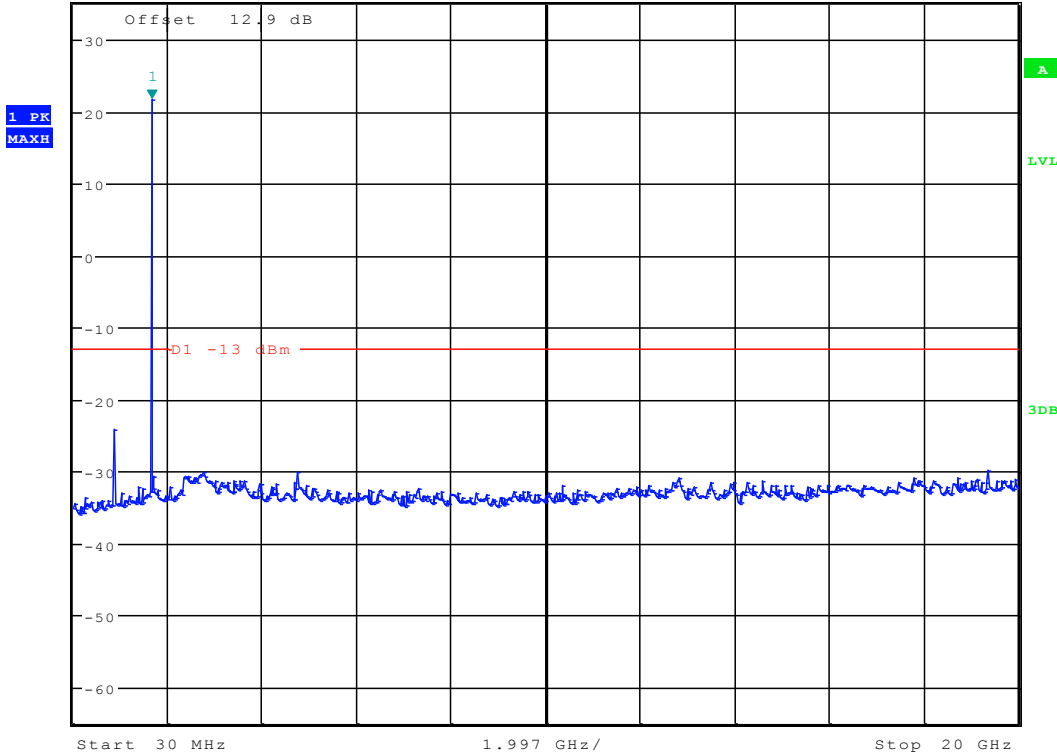
\* RBW 10 kHz      Marker 1 [T1 ]  
 \* VBW 30 kHz      -46.42 dBm  
 Ref 35 dBm      \* Att 35 dB      SWT 300 ms      197.836538462 kHz



Date: 14.SEP.2012 09:48:28



\* RBW 1 MHz                      Marker 1 [T1 ]  
 \* VBW 3 MHz                      21.66 dBm  
 Ref 35 dBm                      \* Att 35 dB                      SWT 115 ms                      1.694166667 GHz



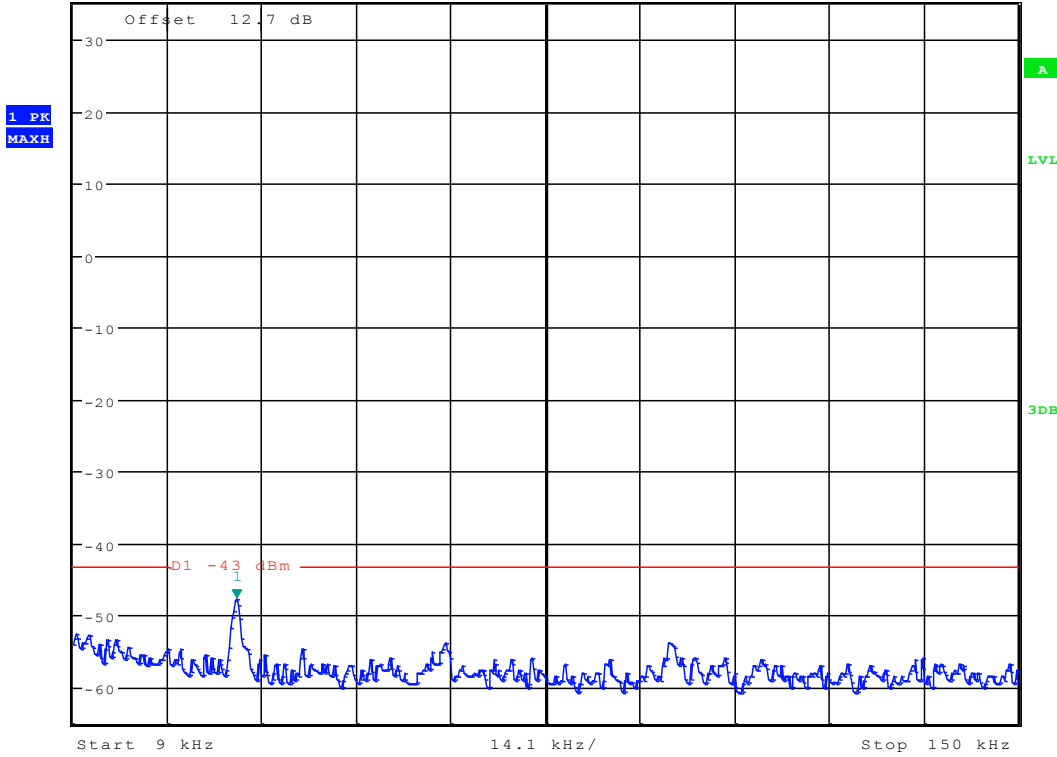
Date: 14.SEP.2012 09:49:12



### 1.1.3 Channel = T



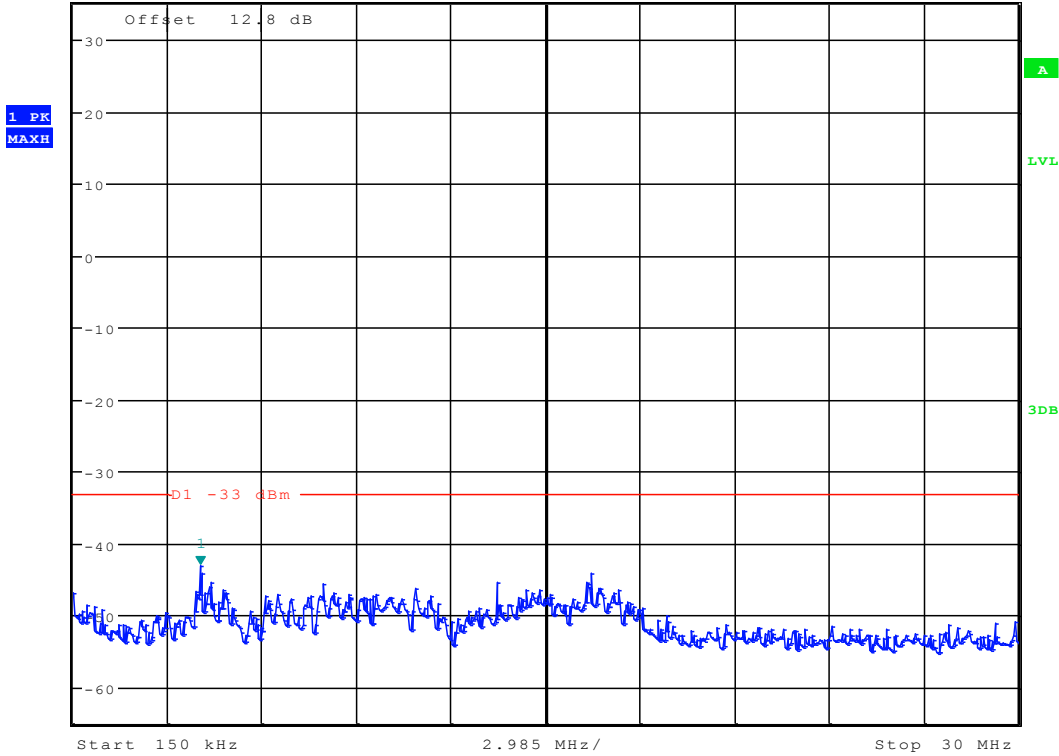
\*RBW 1 kHz                      Marker 1 [T1 ]  
 \*VBW 10 kHz                     -47.66 dBm  
 Ref 35 dBm                      \*Att 35 dB                      SWT 145 ms                      33.403846154 kHz



Date: 14.SEP.2012 09:47:59



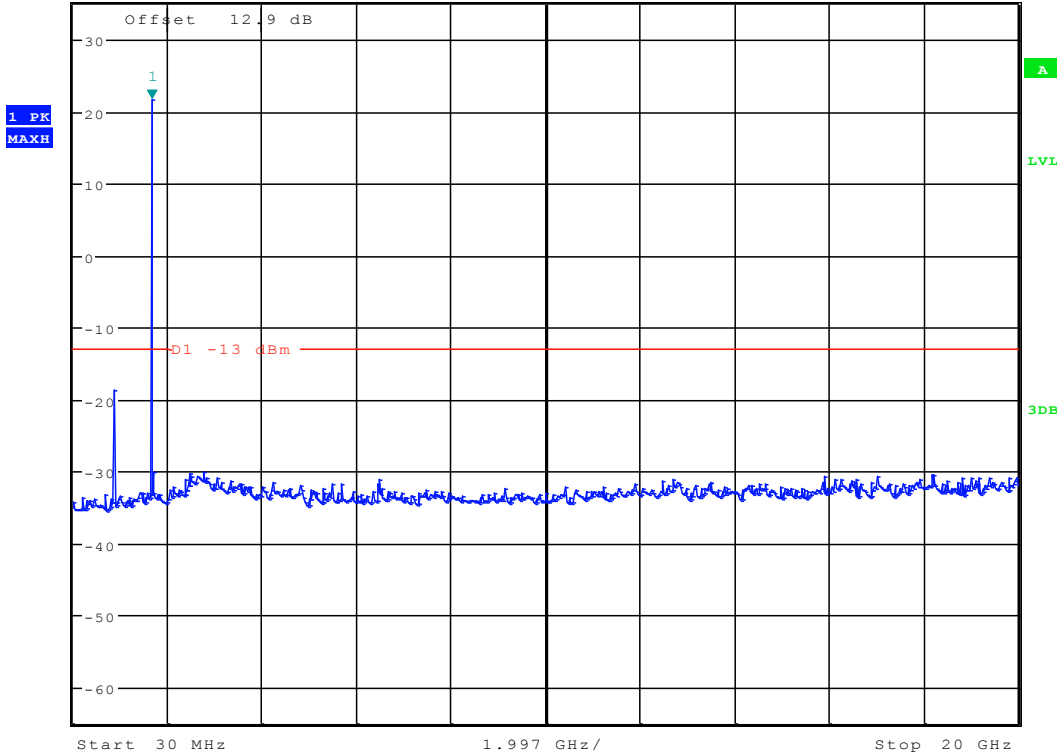
\* RBW 10 kHz      Marker 1 [T1 ]  
 \* VBW 30 kHz      -42.97 dBm  
 Ref 35 dBm      \* Att 35 dB      SWT 300 ms      4.168269231 MHz



Date: 14.SEP.2012 09:48:43



\* RBW 1 MHz                      Marker 1 [T1 ]  
 \* VBW 3 MHz                      21.70 dBm  
 Ref 35 dBm                      \* Att 35 dB                      SWT 115 ms                      1.694166667 GHz



Date: 14.SEP.2012 09:49:27



## 2 For LTE Band 4

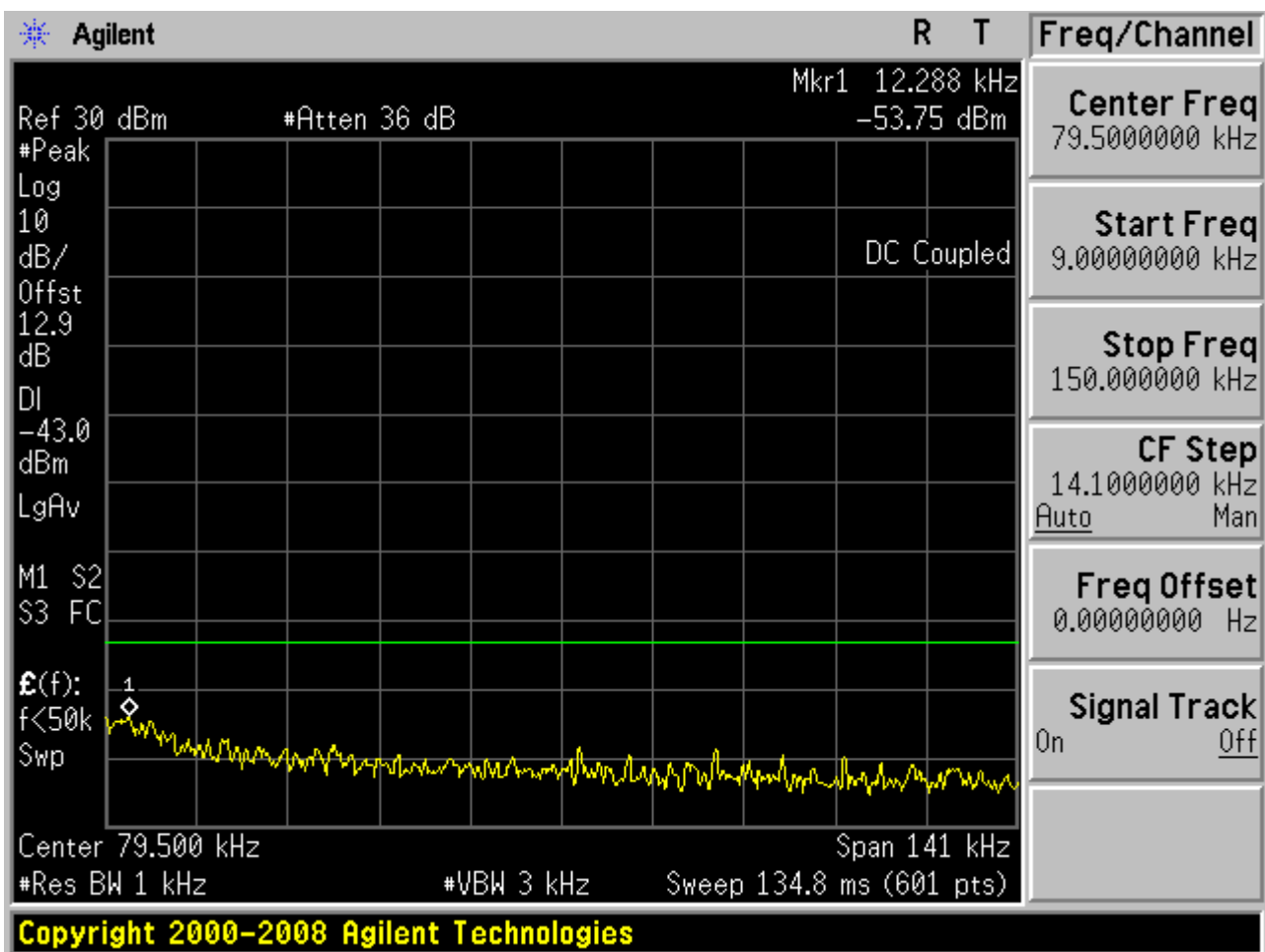
NOTE1: All relevant operation modes have been tested, and the 1RBs /RB#0 case data is included in this report.

### 2.1 Test Mode=TM4

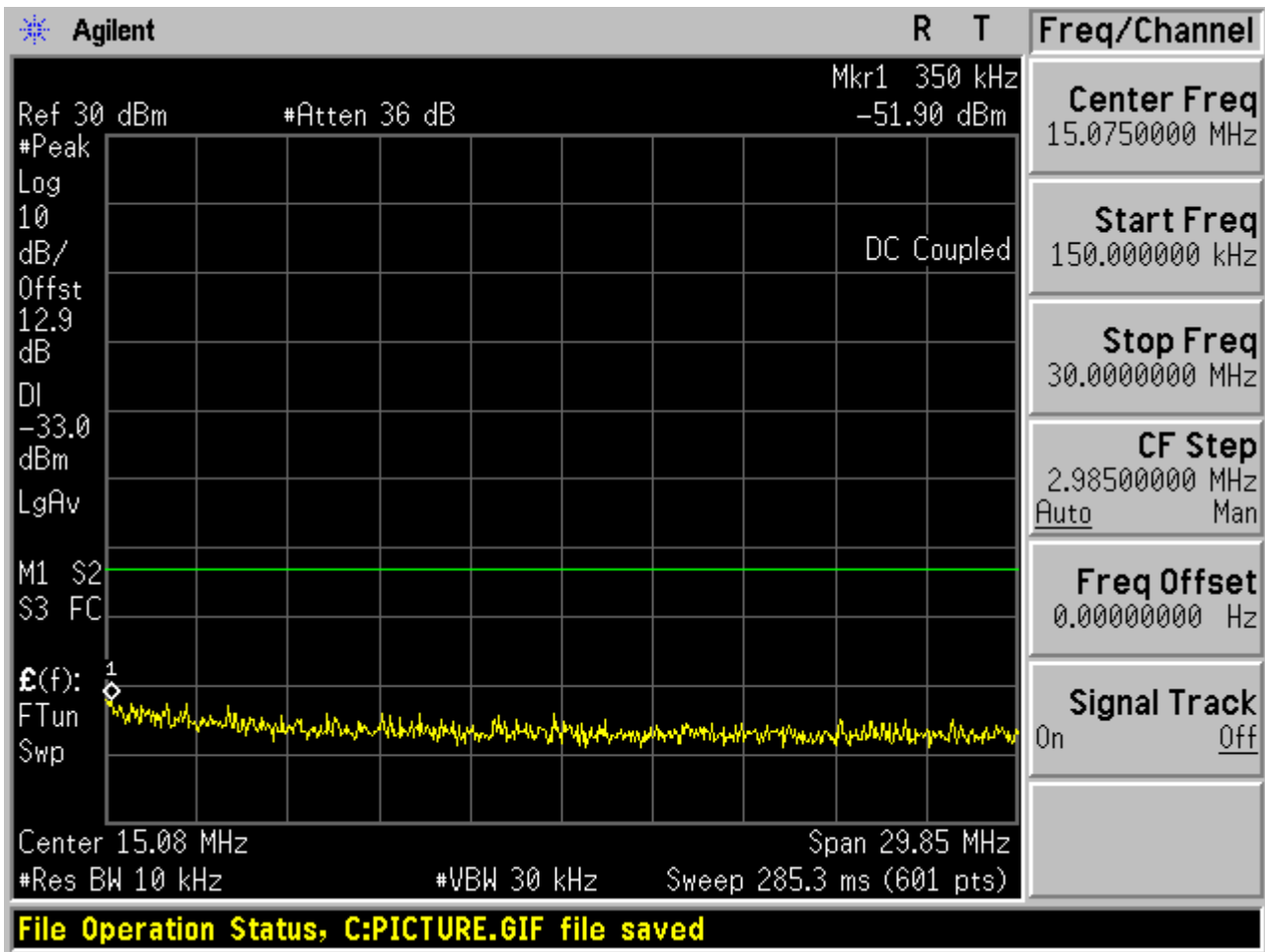
#### 2.1.1 Channel Bandwidth = 1.4 MHz

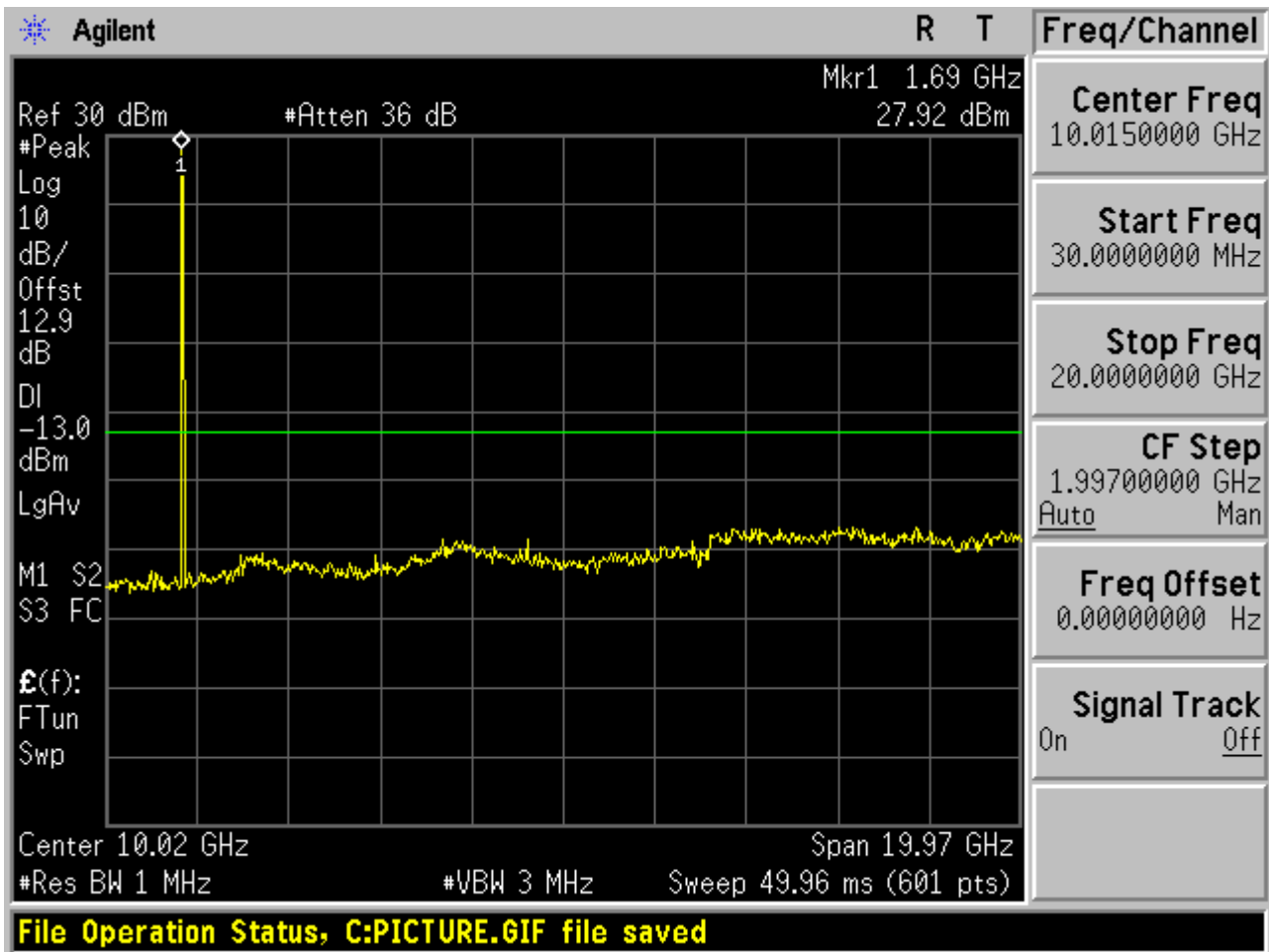
##### 2.1.1.1 Channel= B

##### 2.1.1.1.1 QPSK/1RBs /RB #0





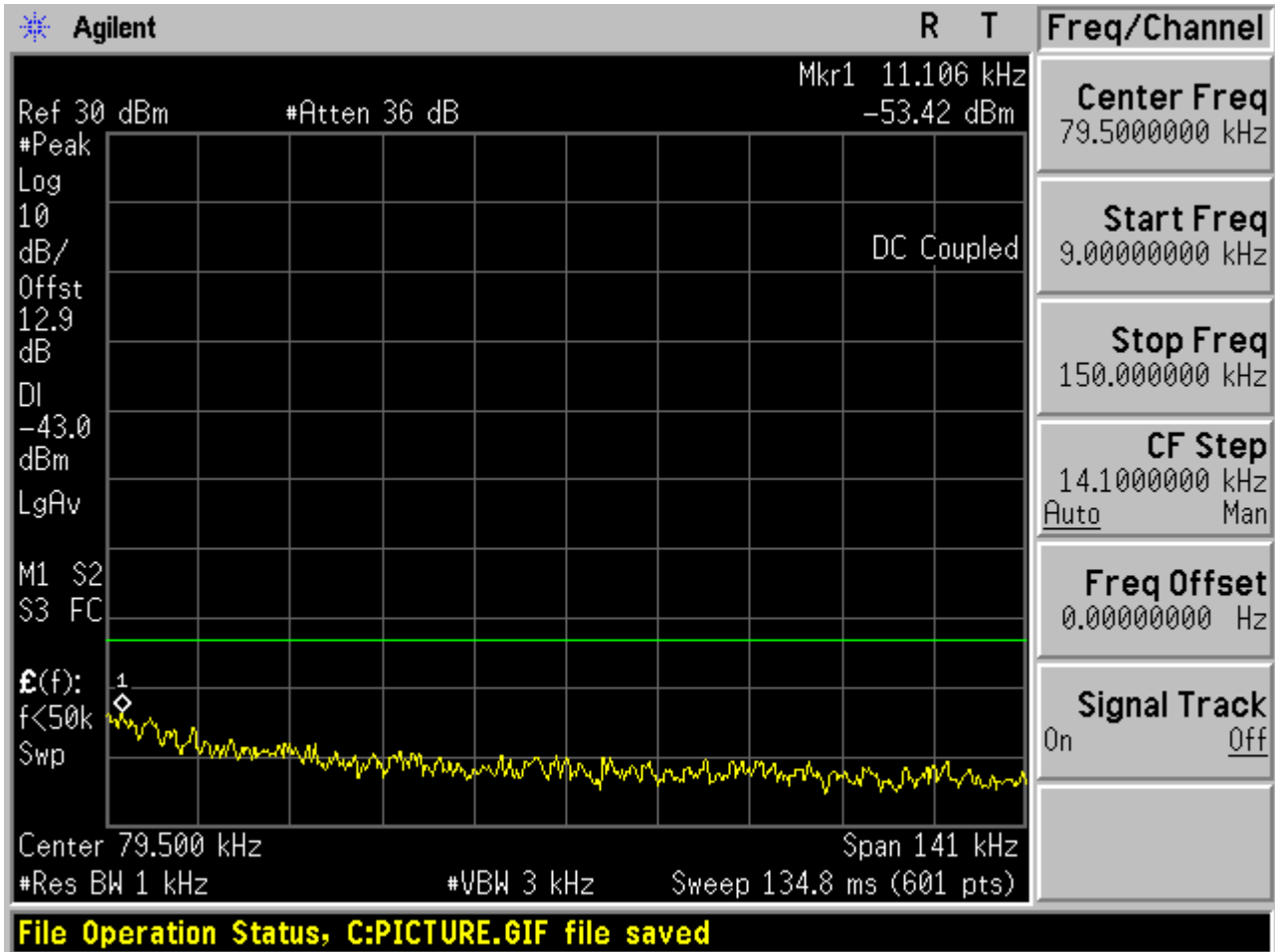


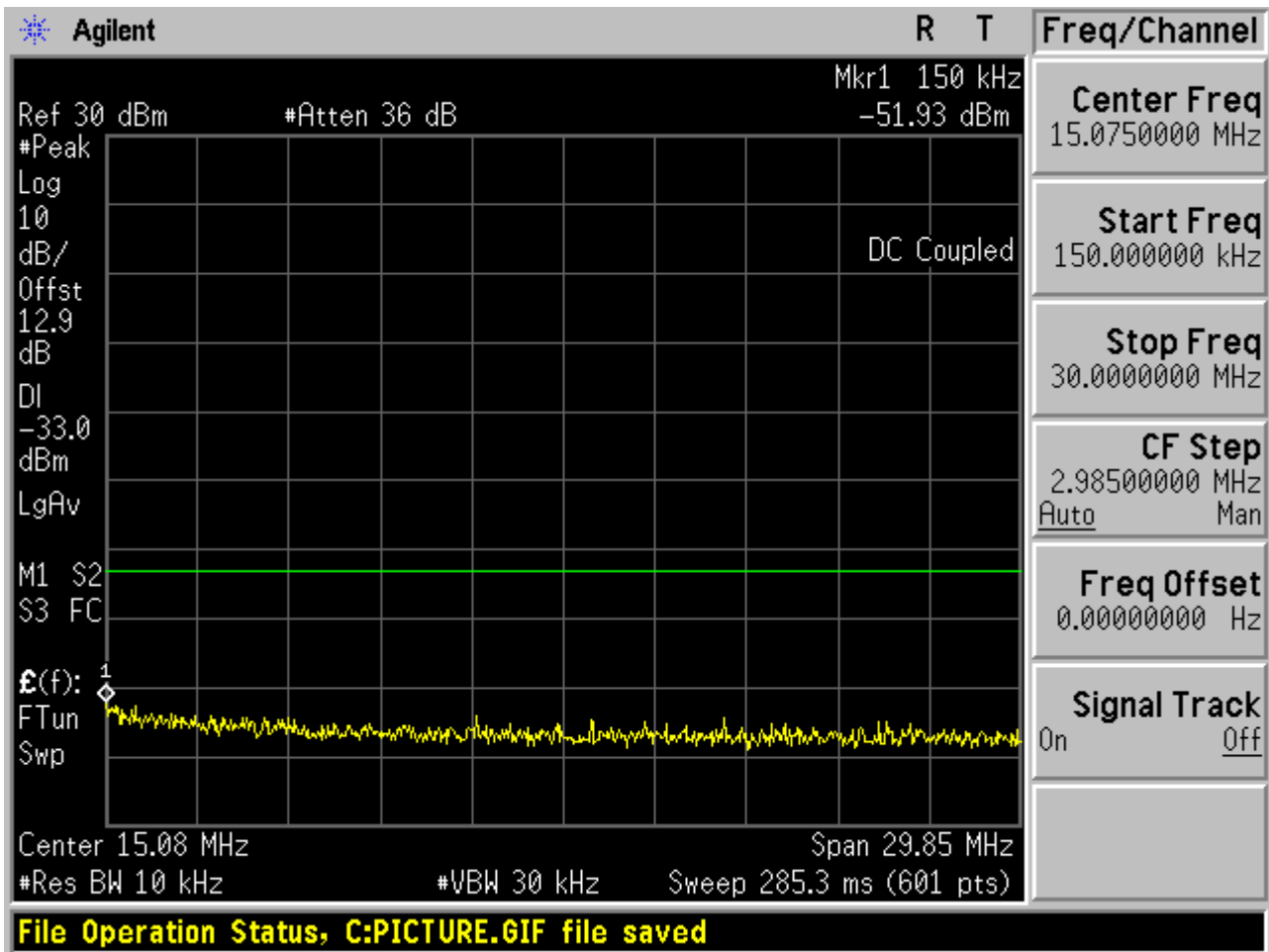


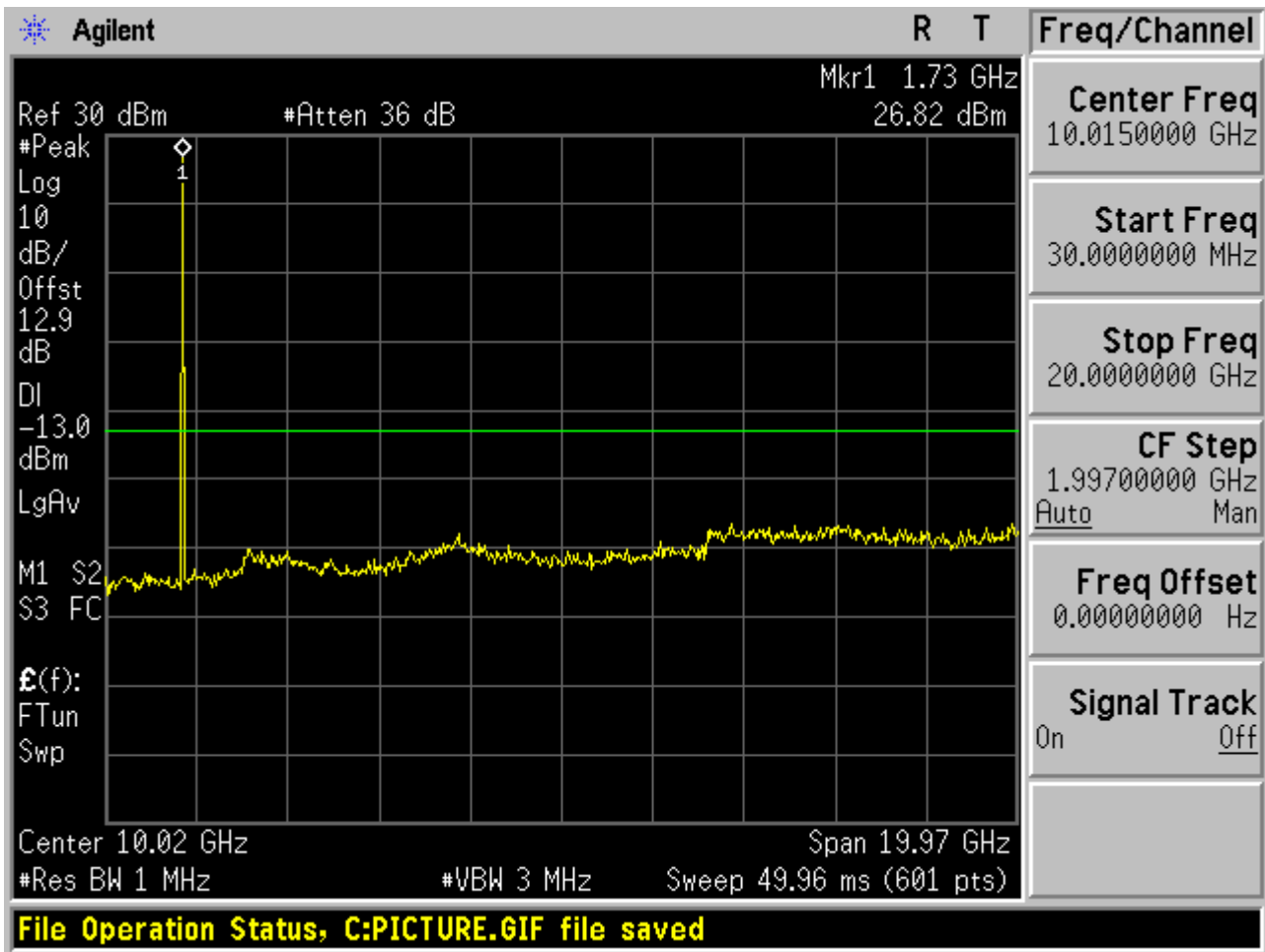


## 2.1.1.2 Channel = M

### 2.1.1.2.1 QPSK/1RBs /RB #0



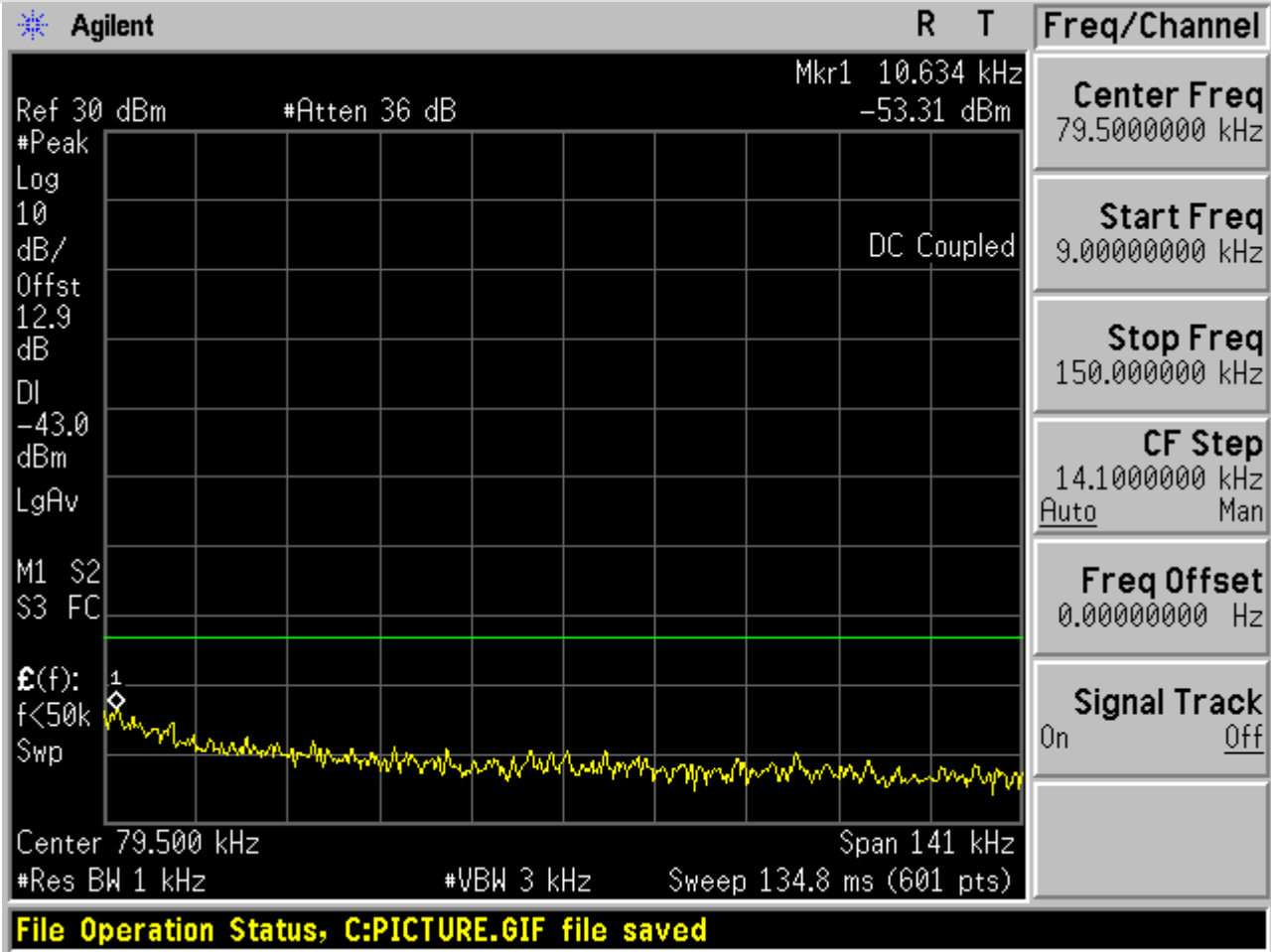


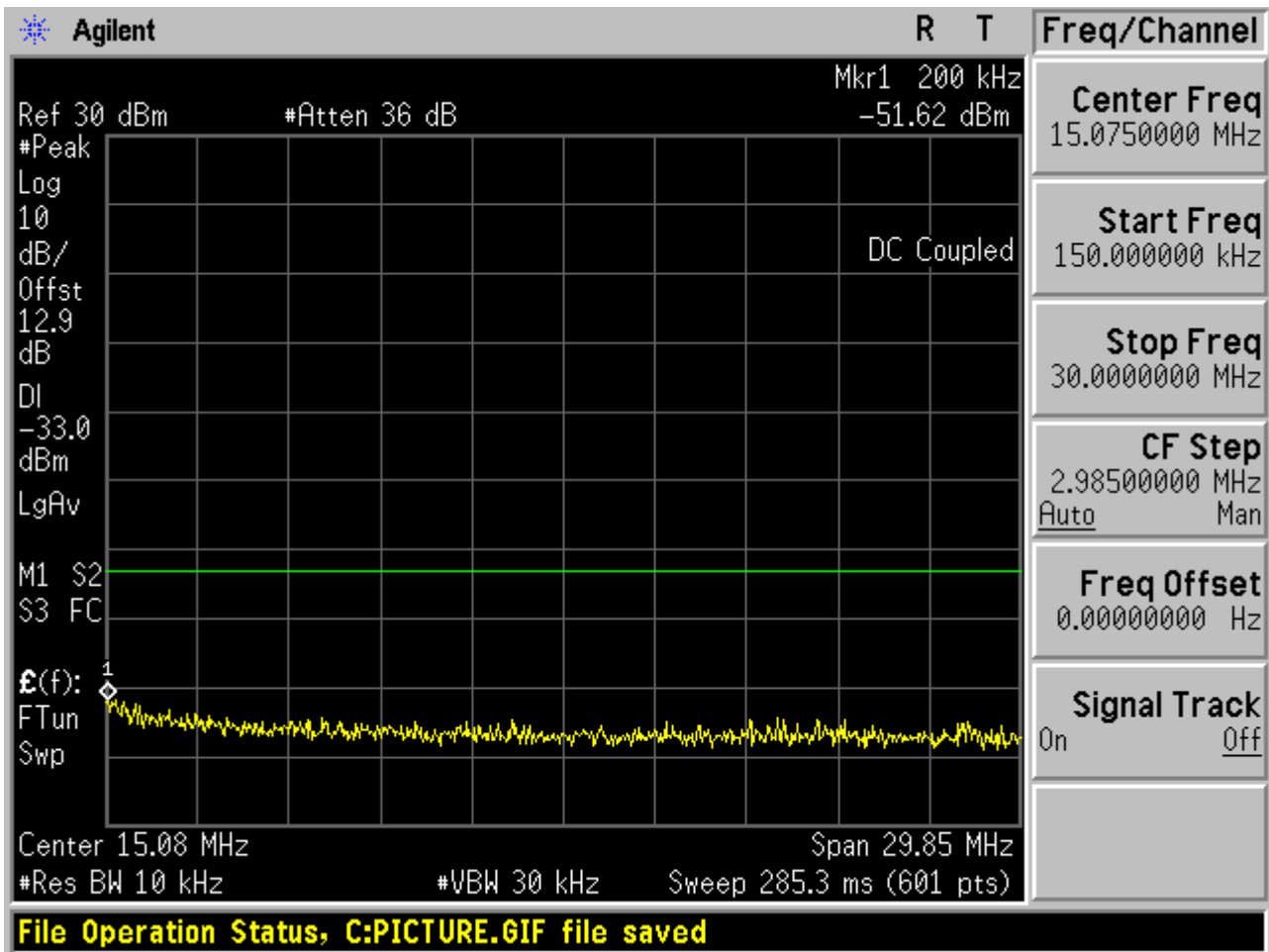


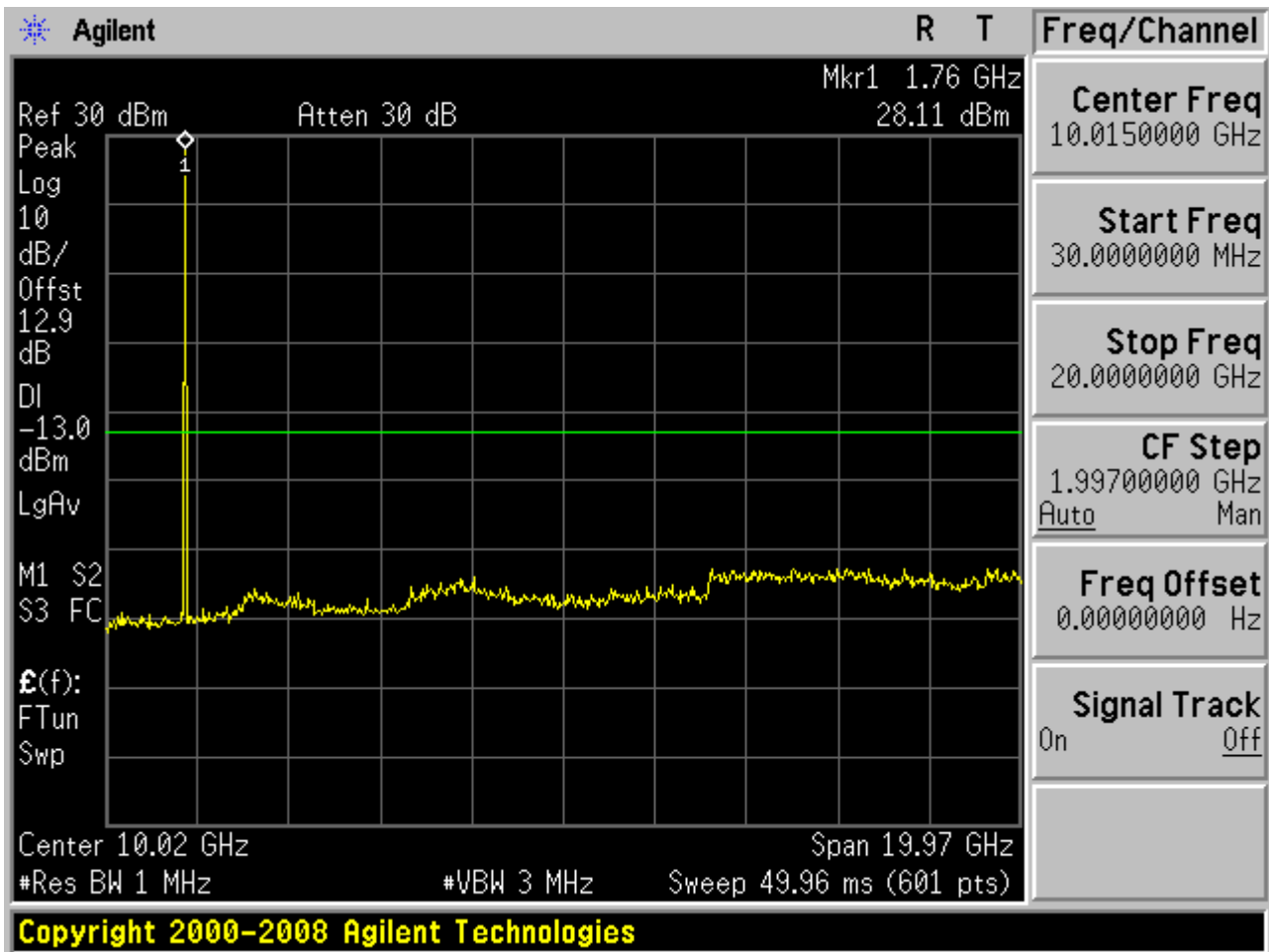


### 2.1.1.3 Channel= T

#### 2.1.1.3.1 QPSK/1RBs /RB #0







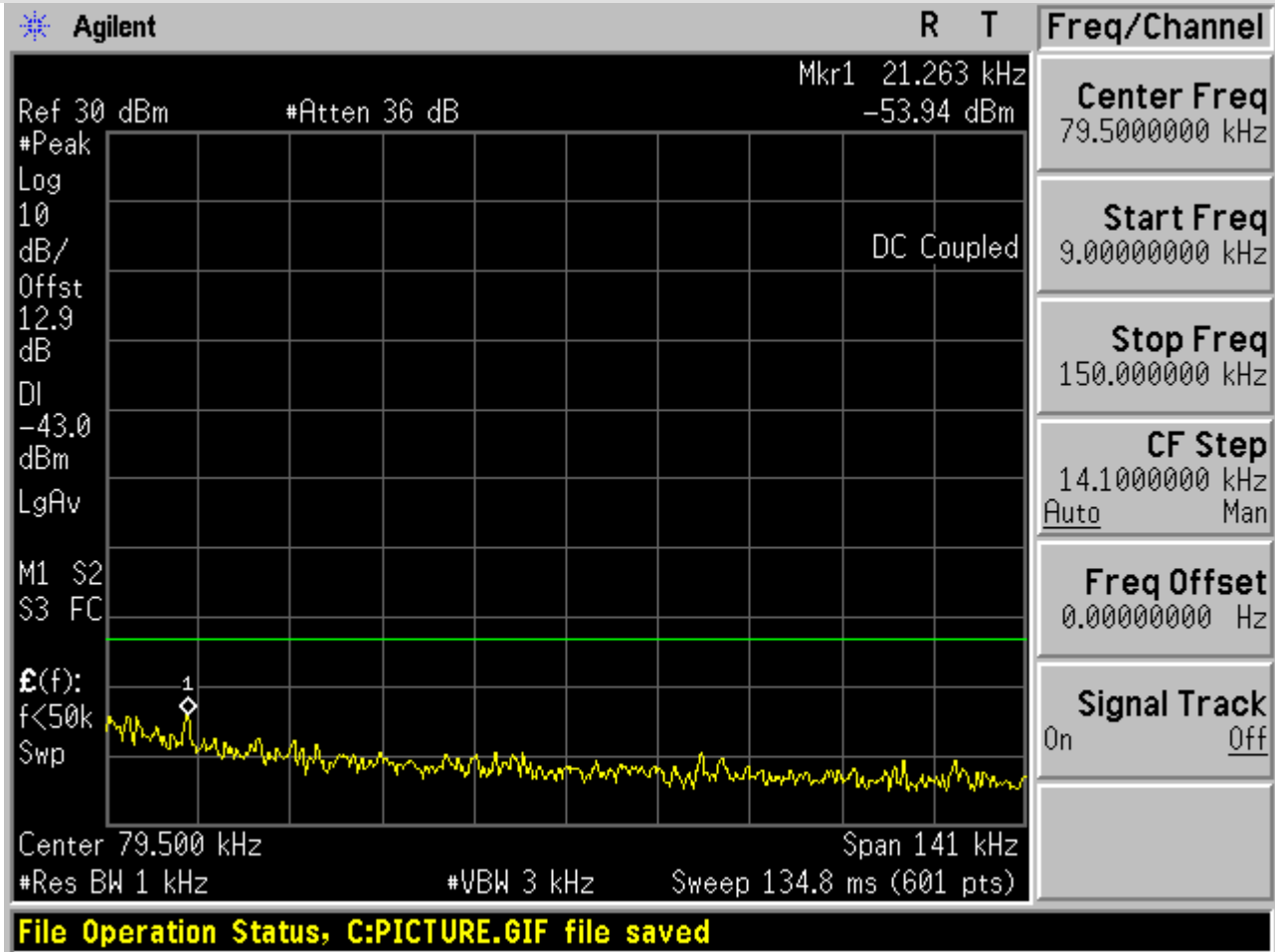


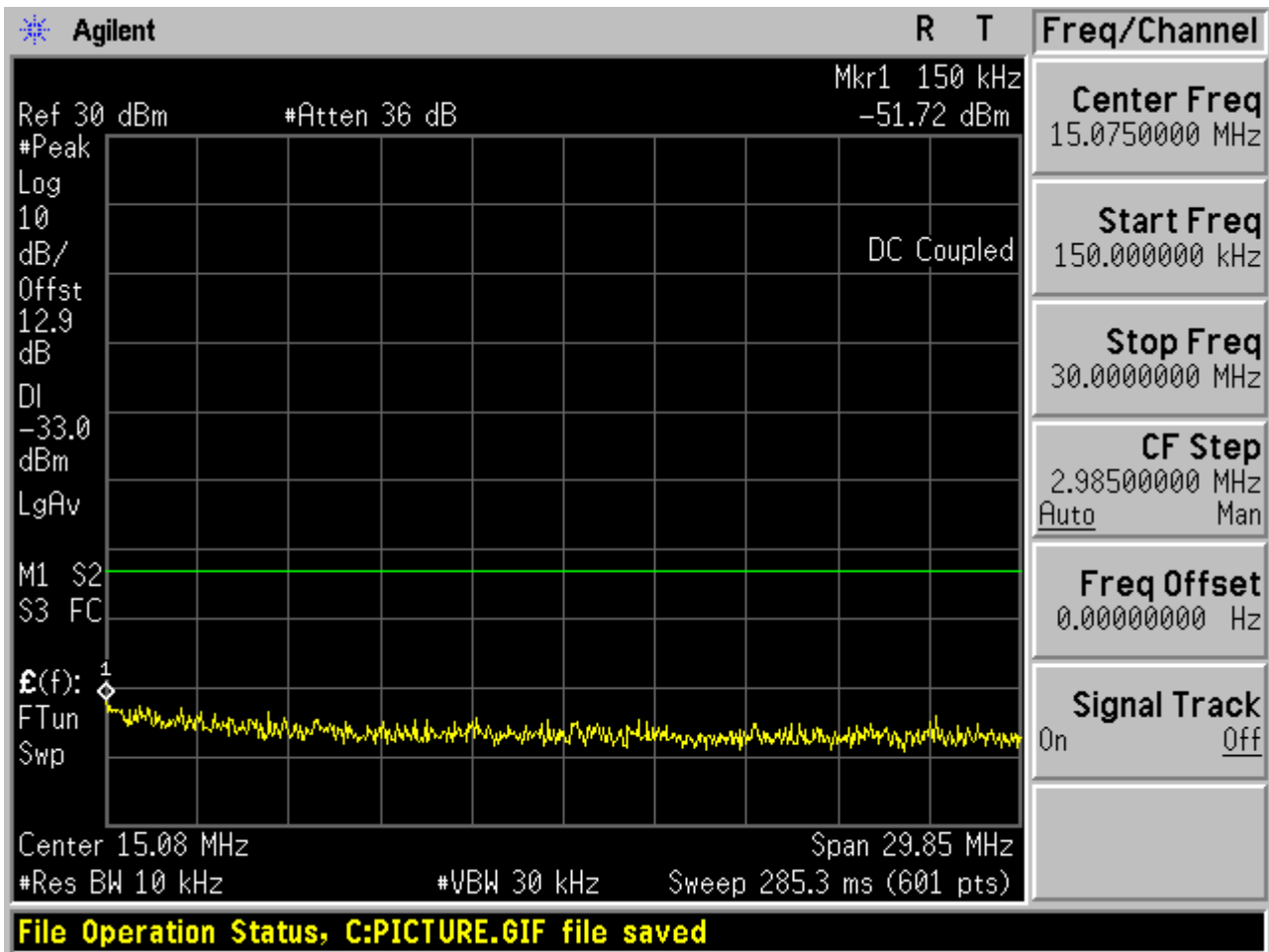


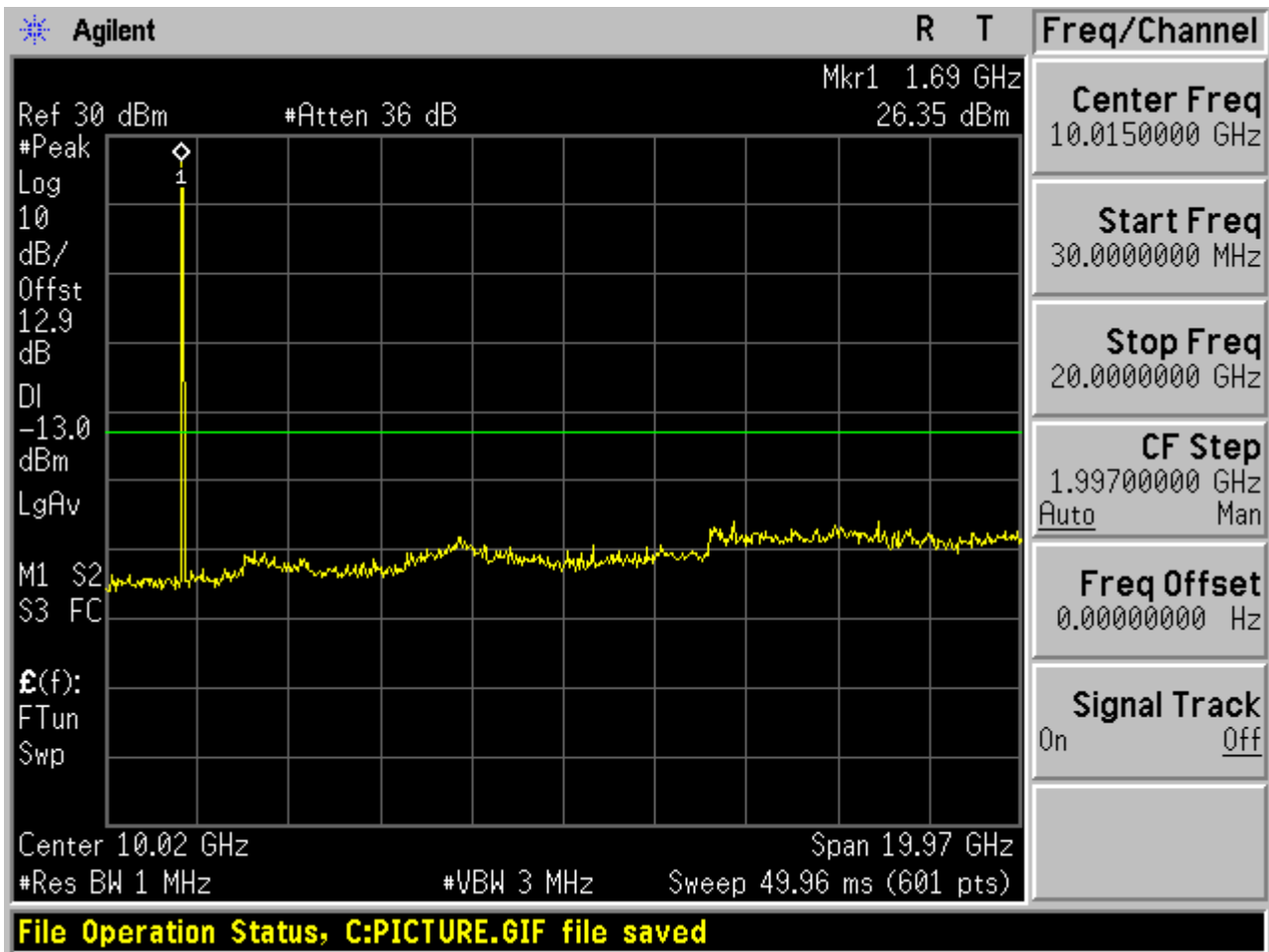
## 2.1.2 Channel Bandwidth = 3 MHz

### 2.1.2.1 Channel= B

#### 2.1.2.1.1 QPSK/1RBs /RB #0



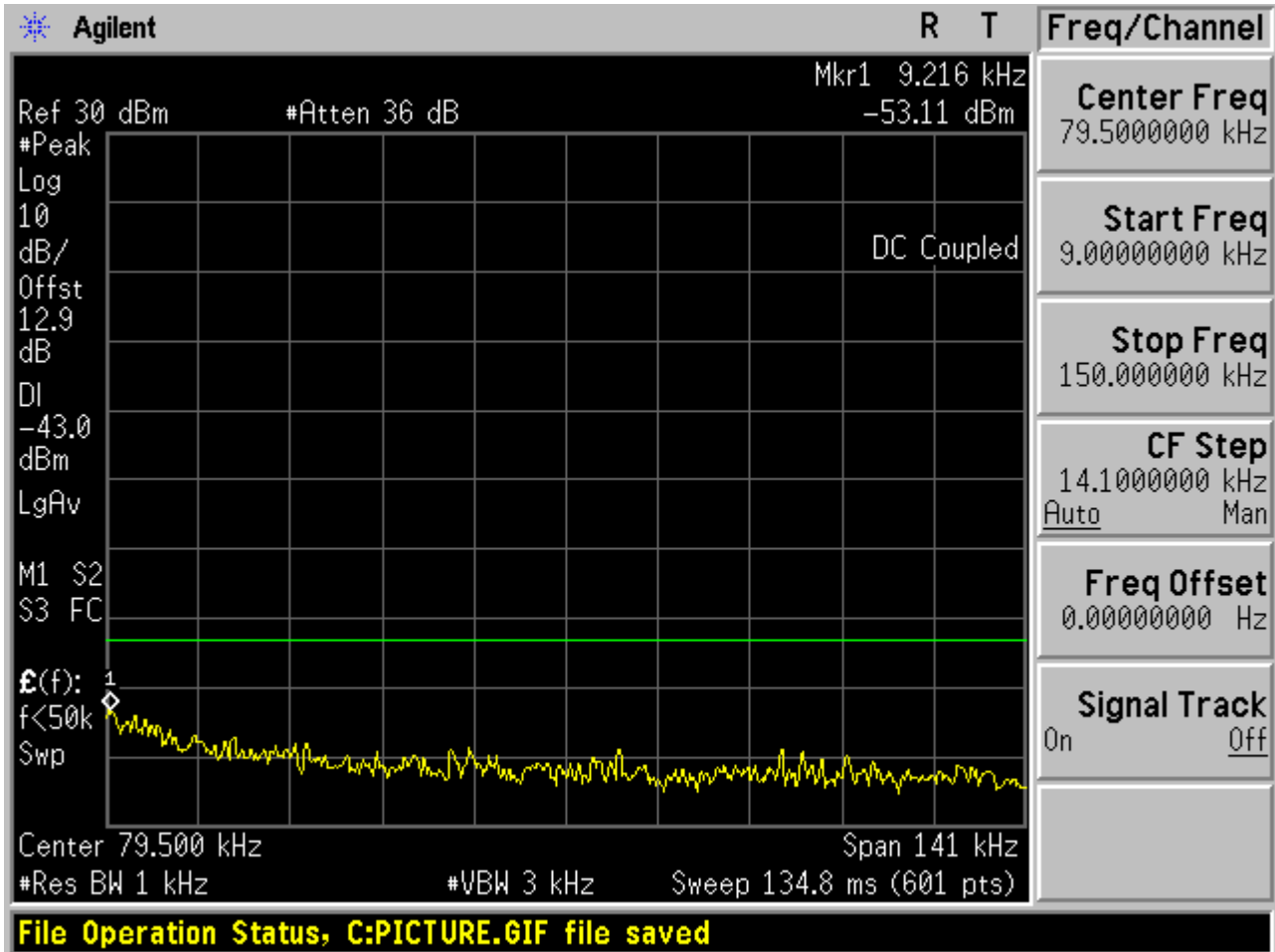


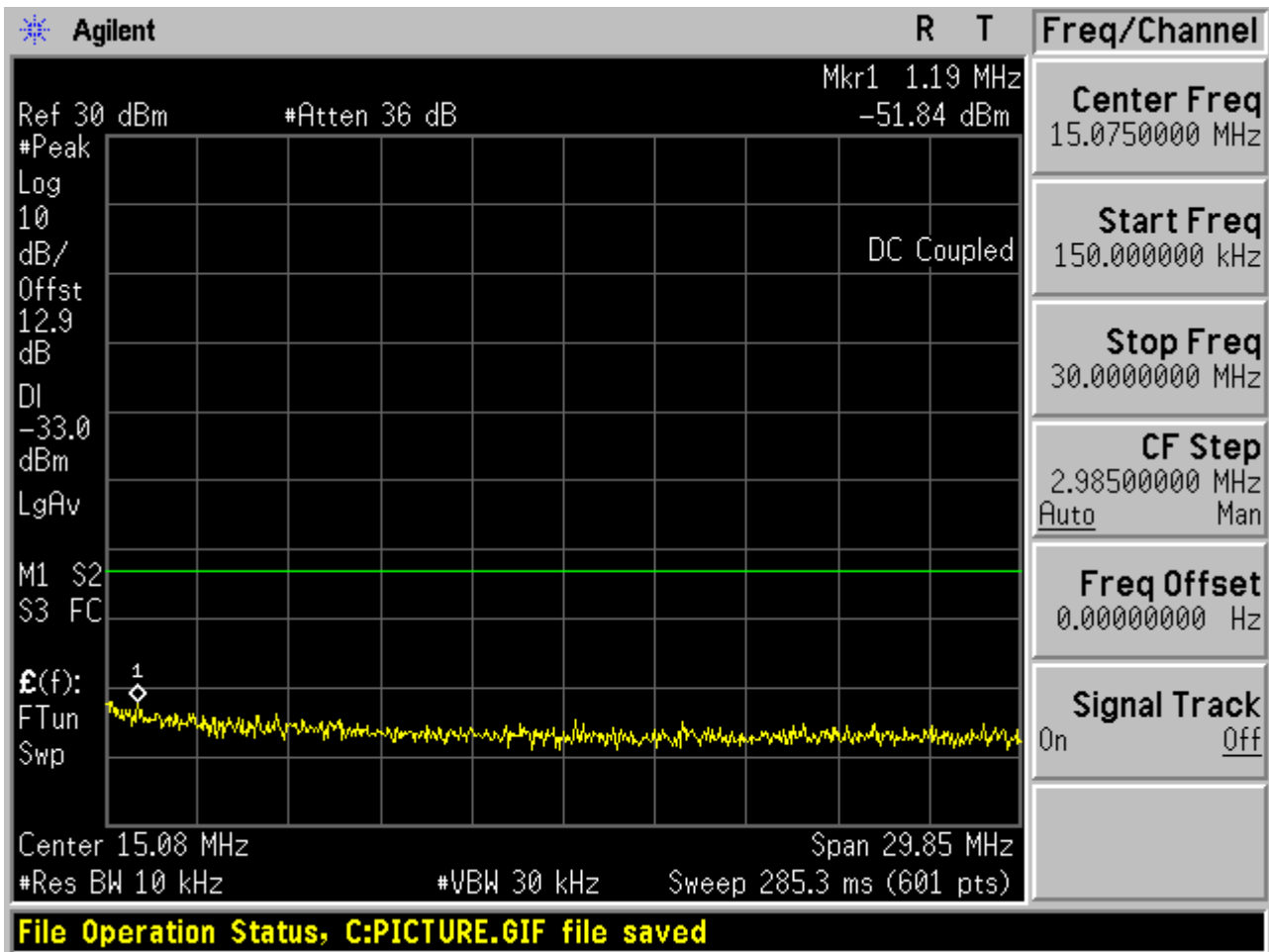


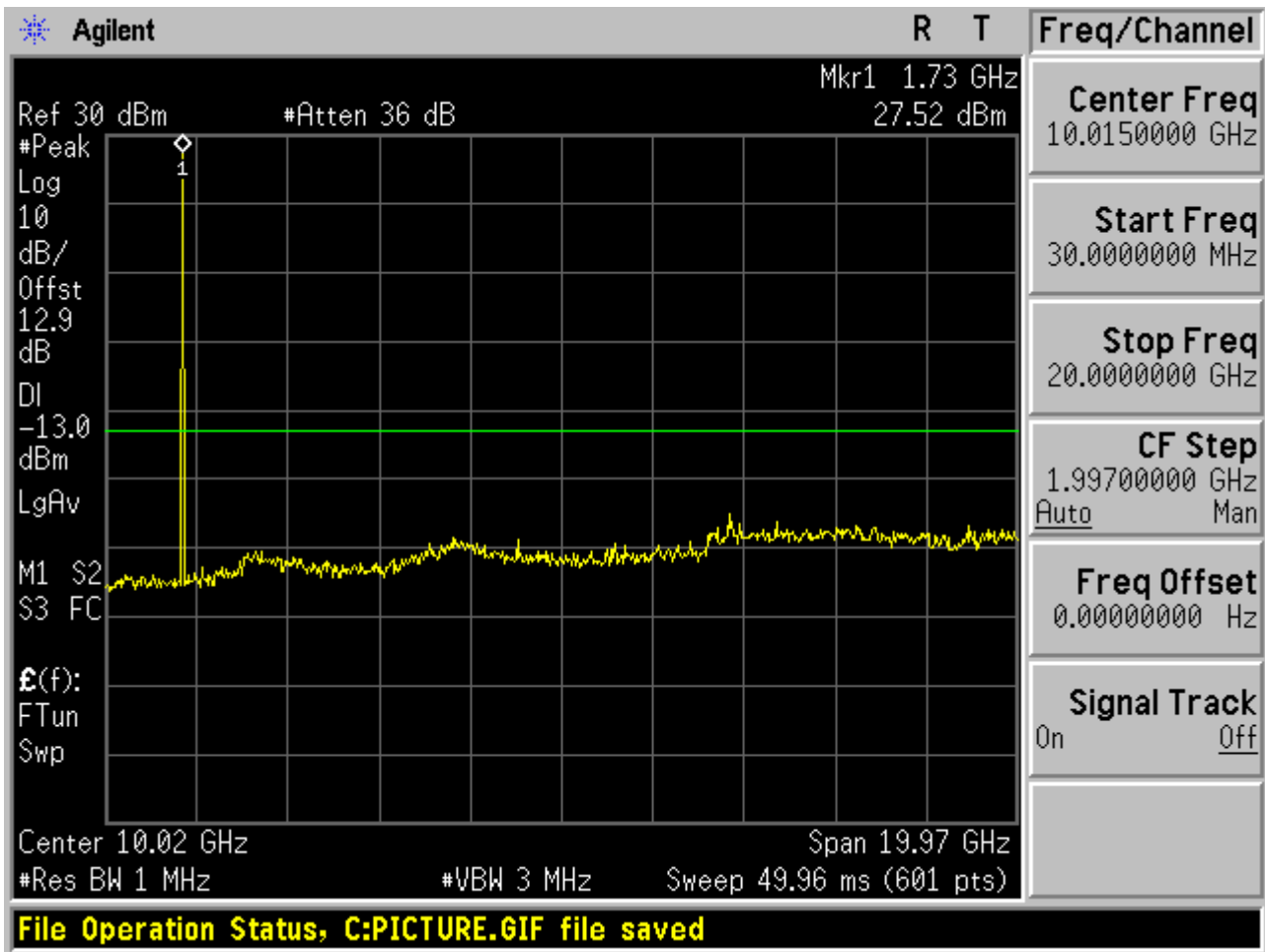


## 2.1.2.2 Channel = M

### 2.1.2.2.1 QPSK/1RBs /RB #0



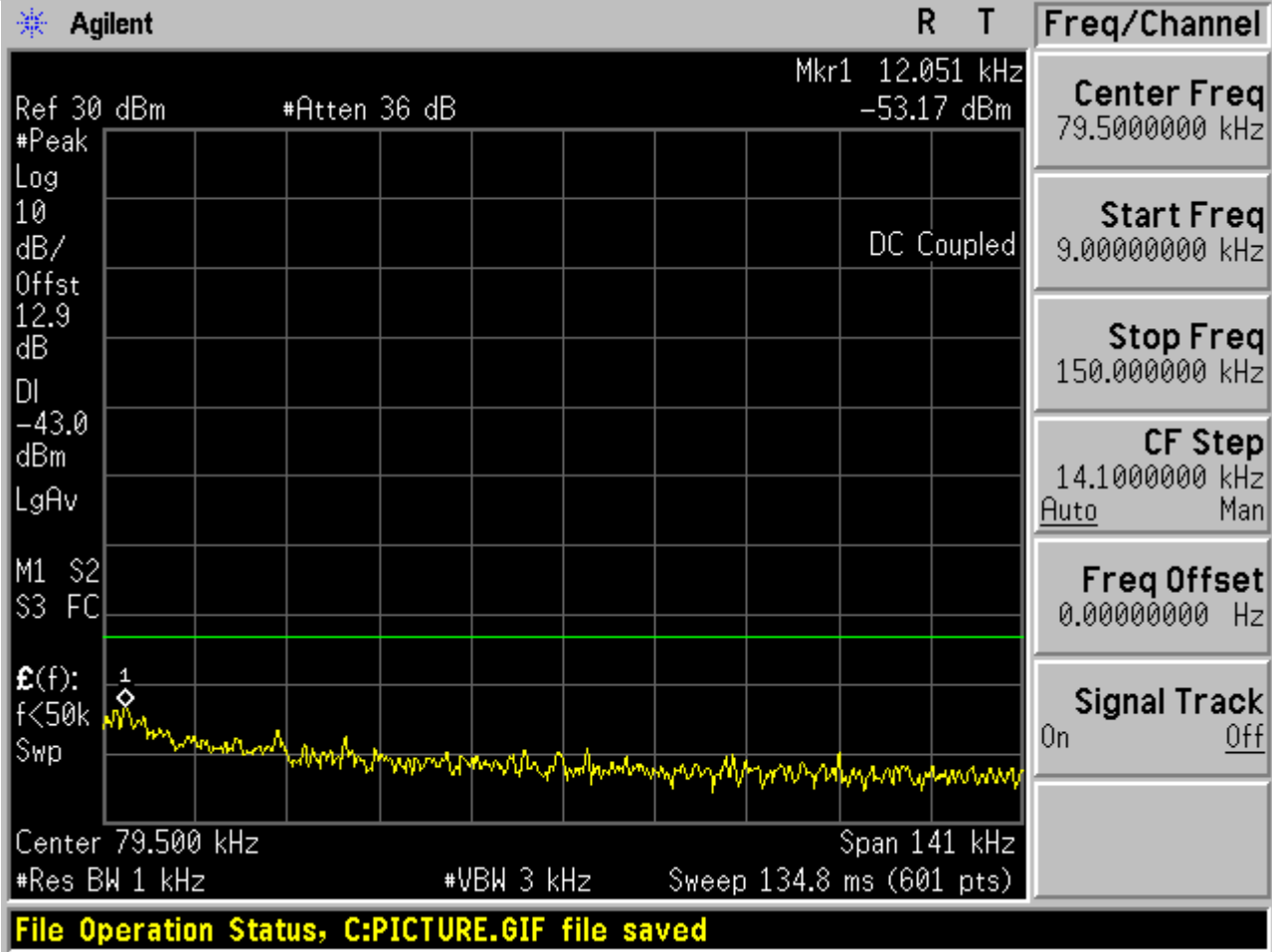


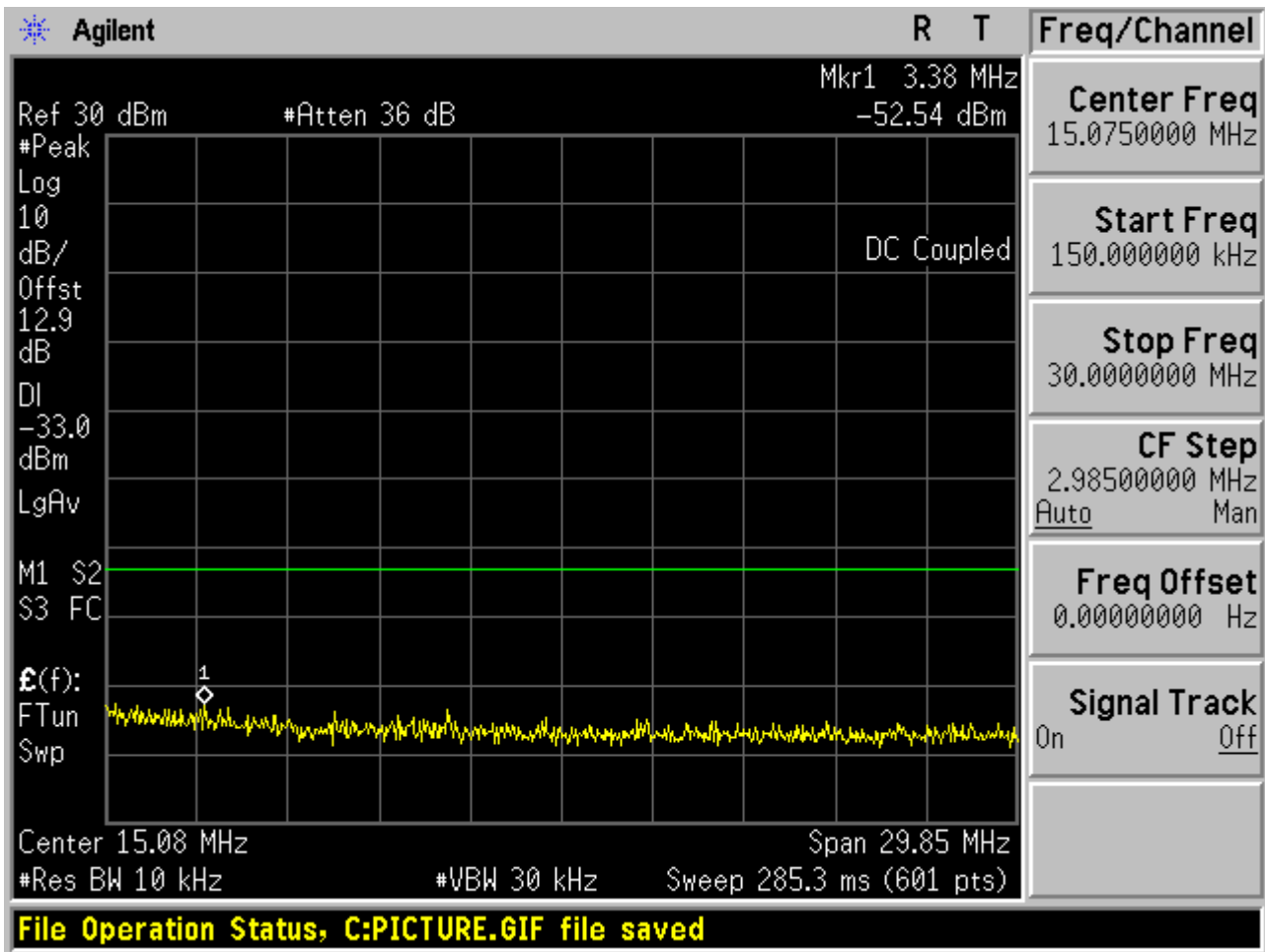




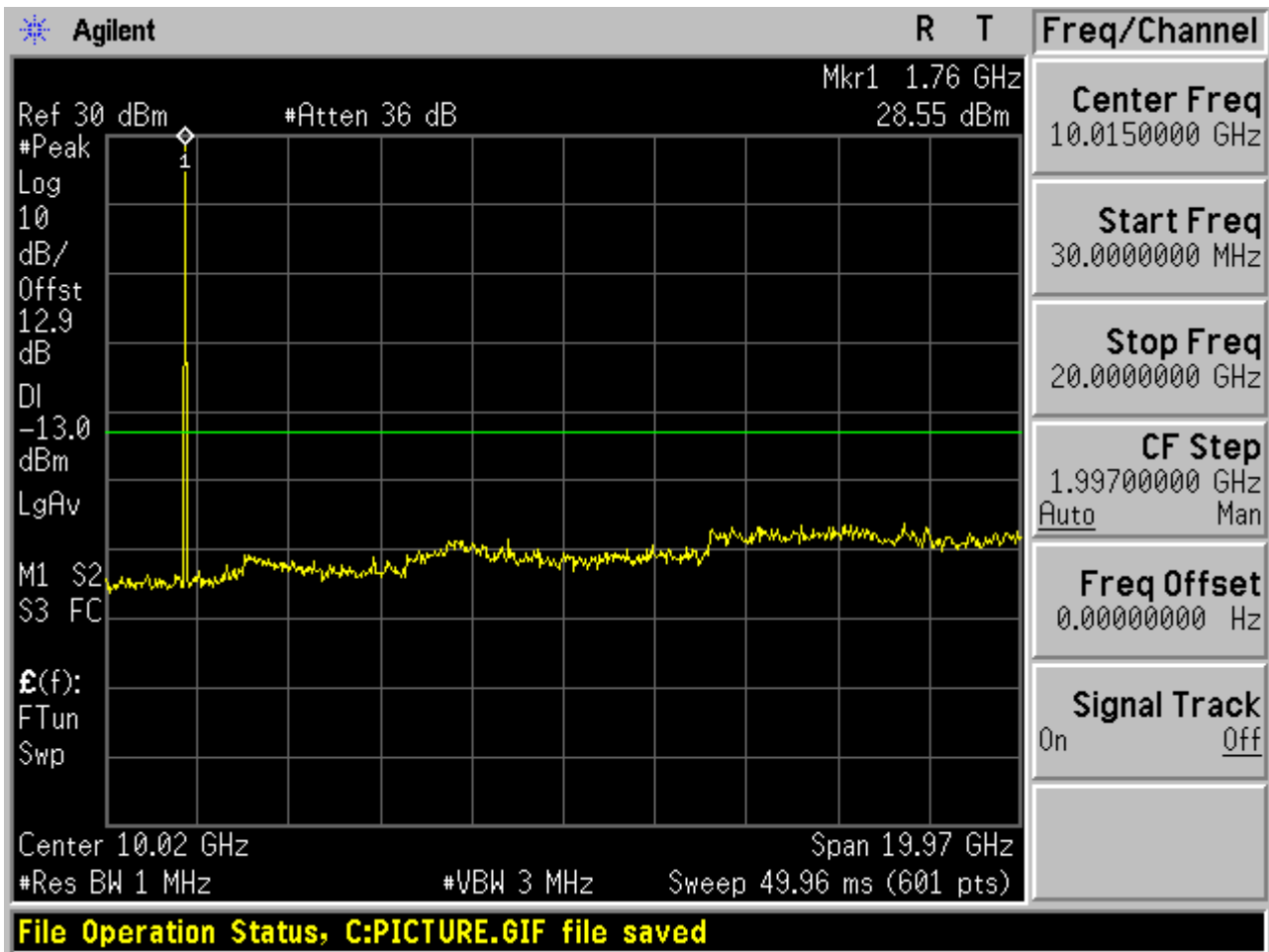
### 2.1.2.3 Channel= T

#### 2.1.2.3.1 QPSK/1RBs /RB #0







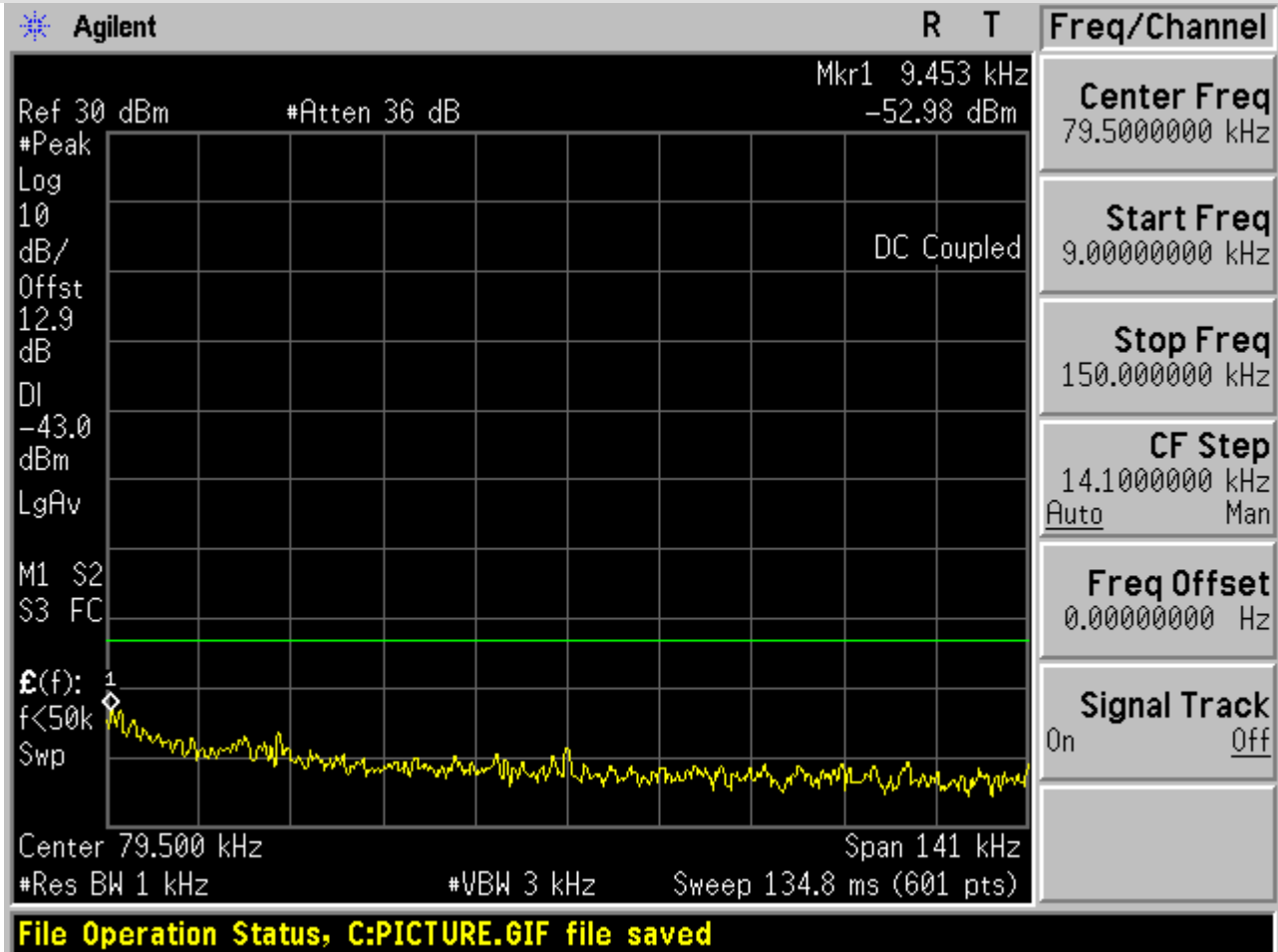


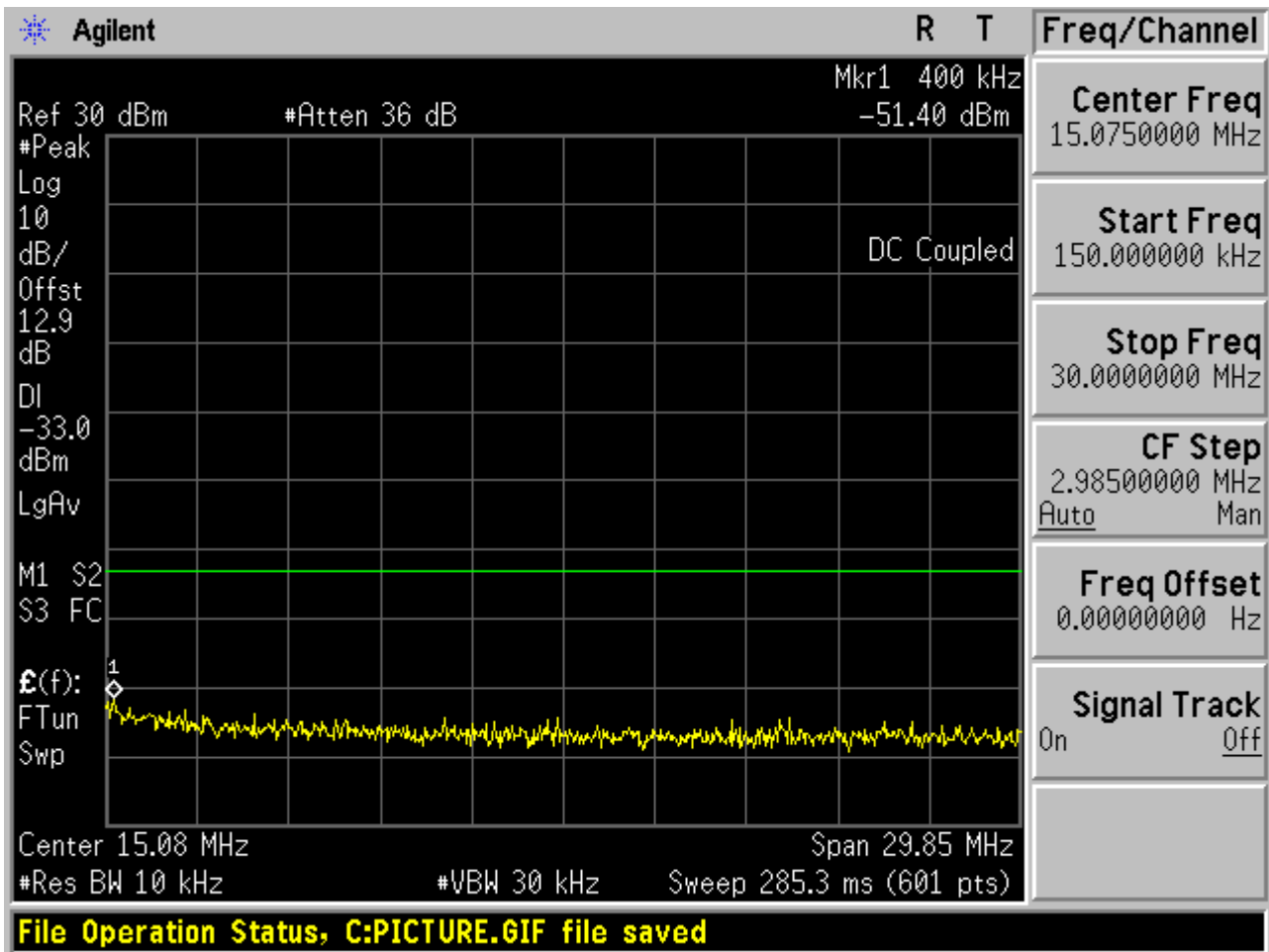


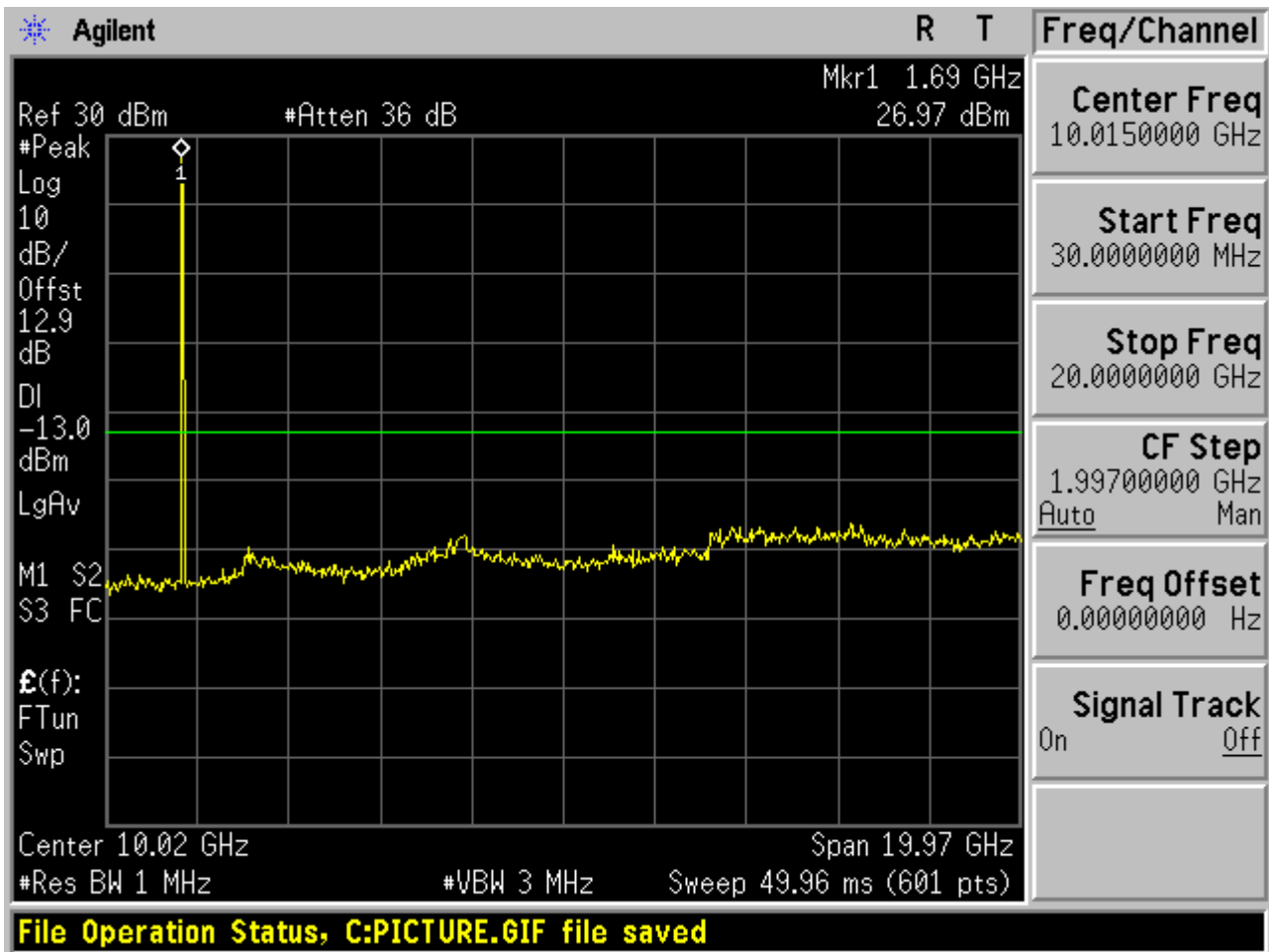
## 2.1.3 Channel Bandwidth = 5 MHz

### 2.1.3.1 Channel= B

#### 2.1.3.1.1 QPSK/1RBs /RB #0



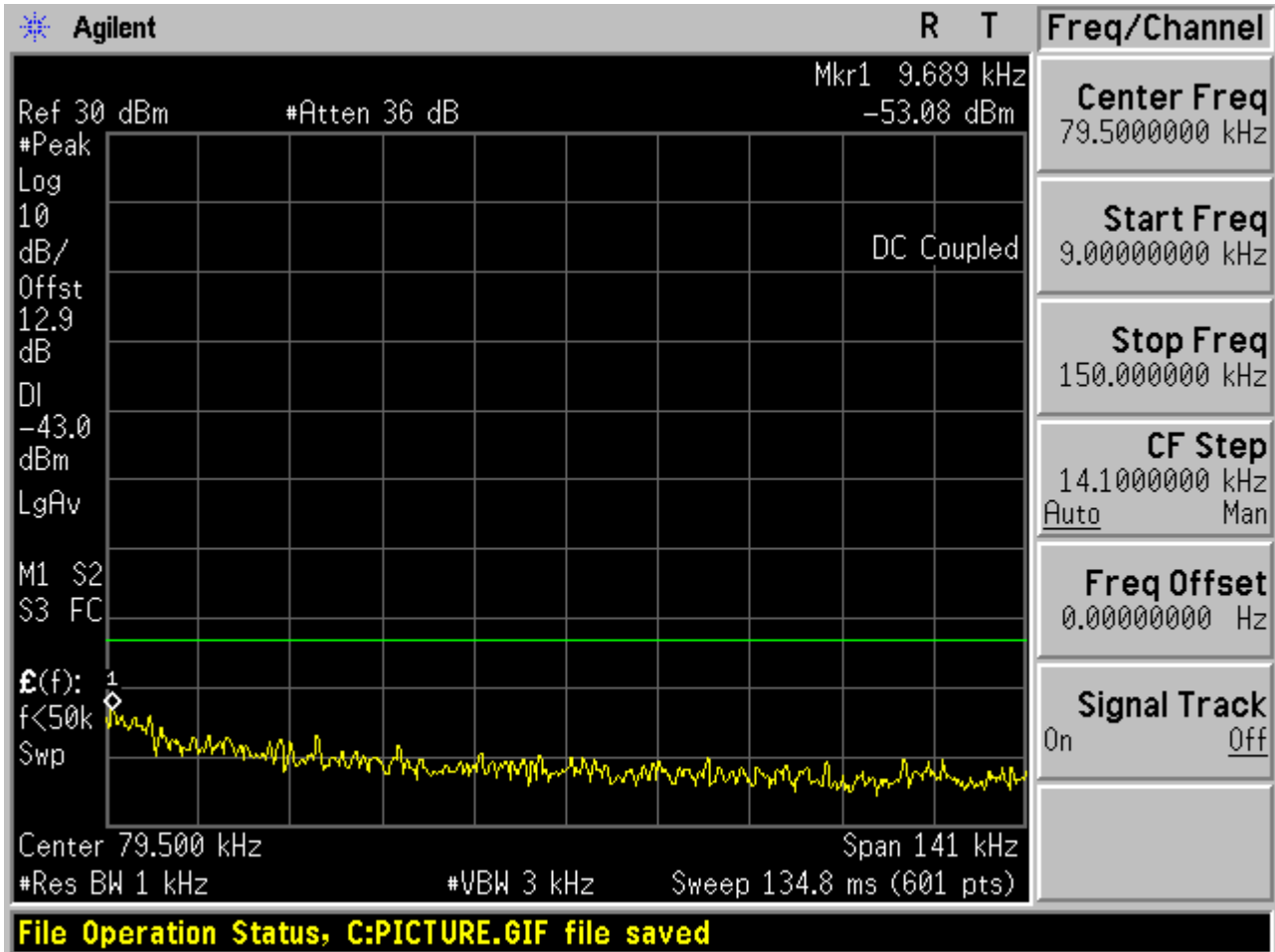


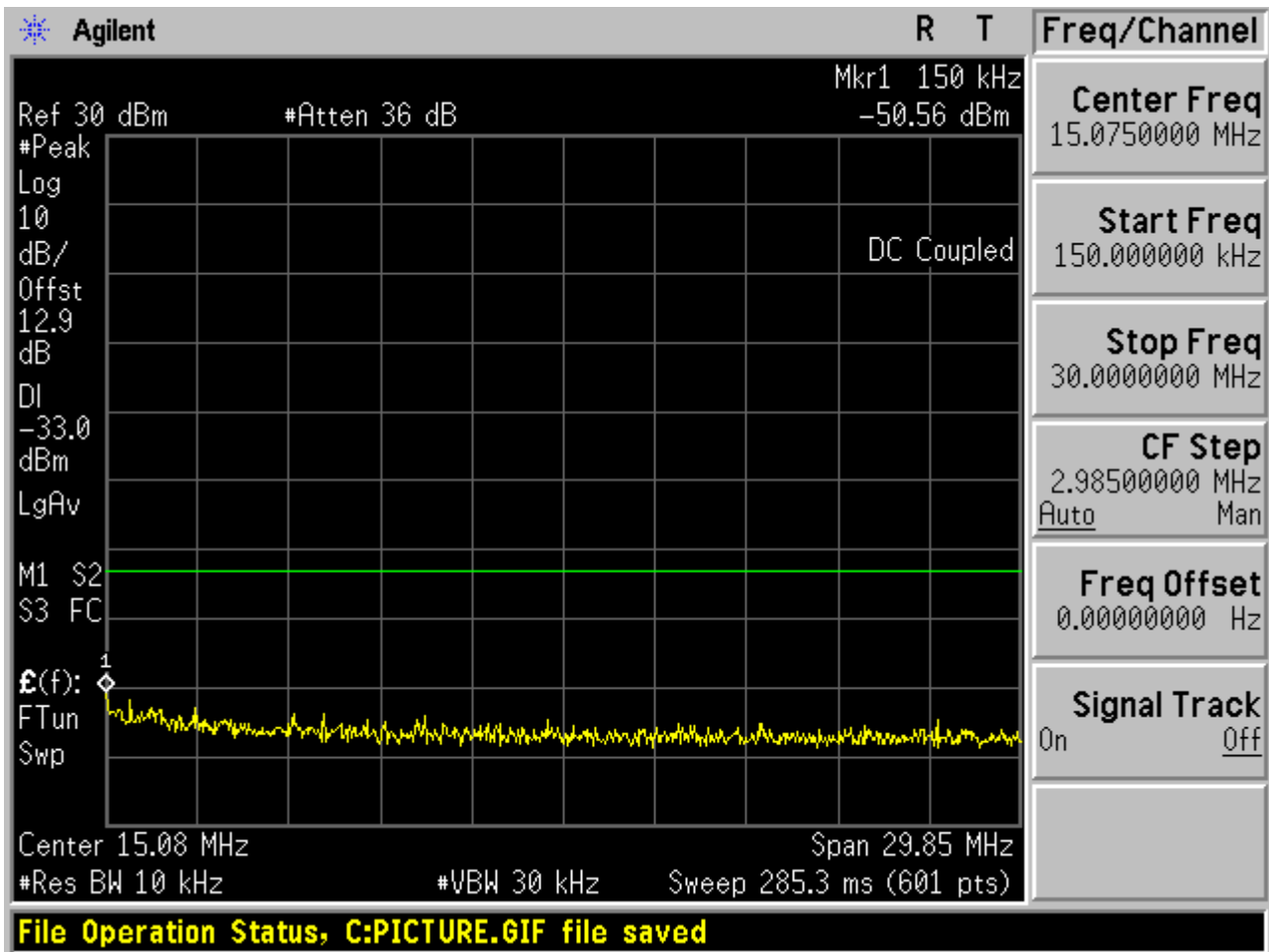


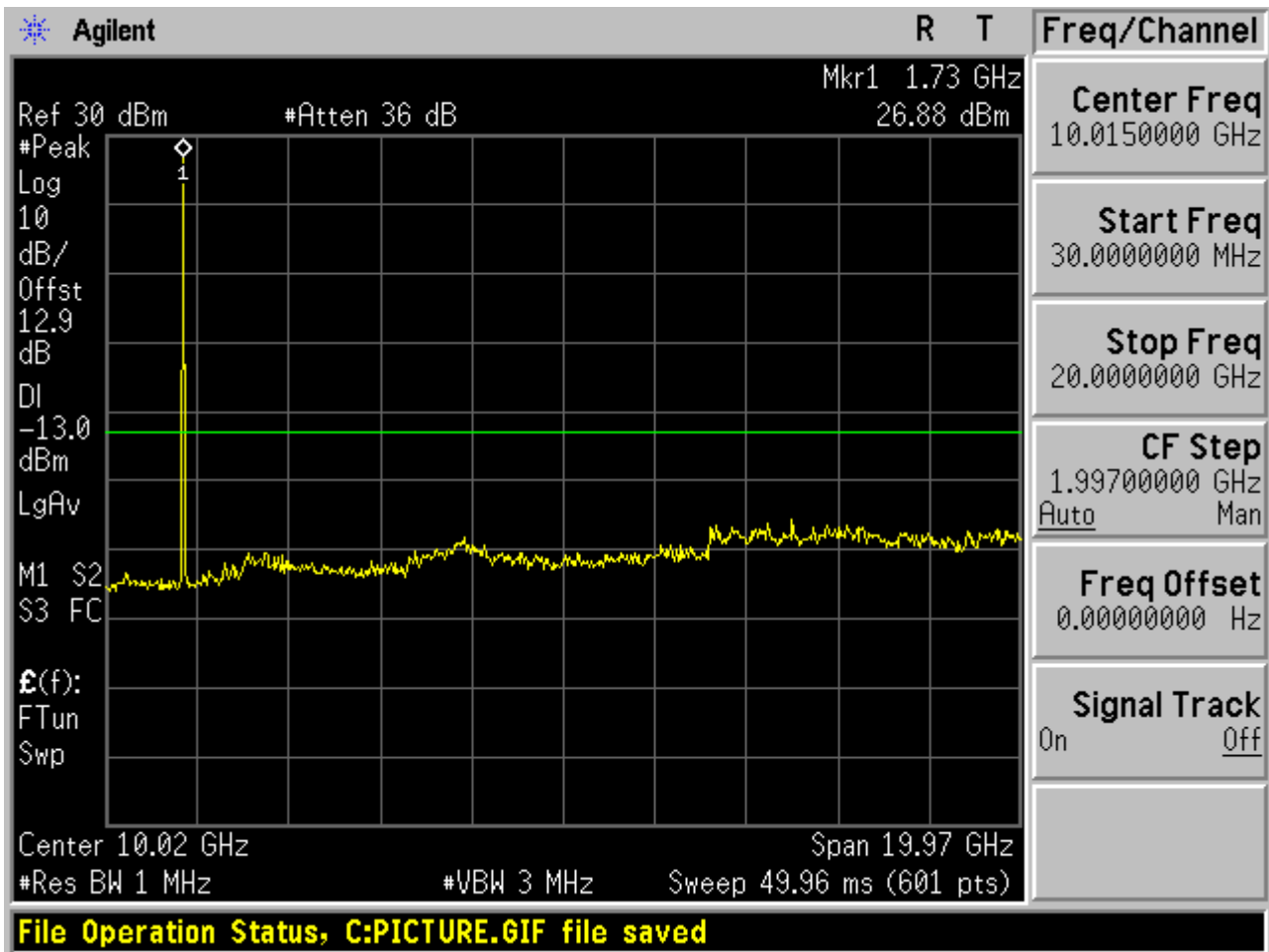


### 2.1.3.2 Channel = M

#### 2.1.3.2.1 QPSK/1RBs /RB #0



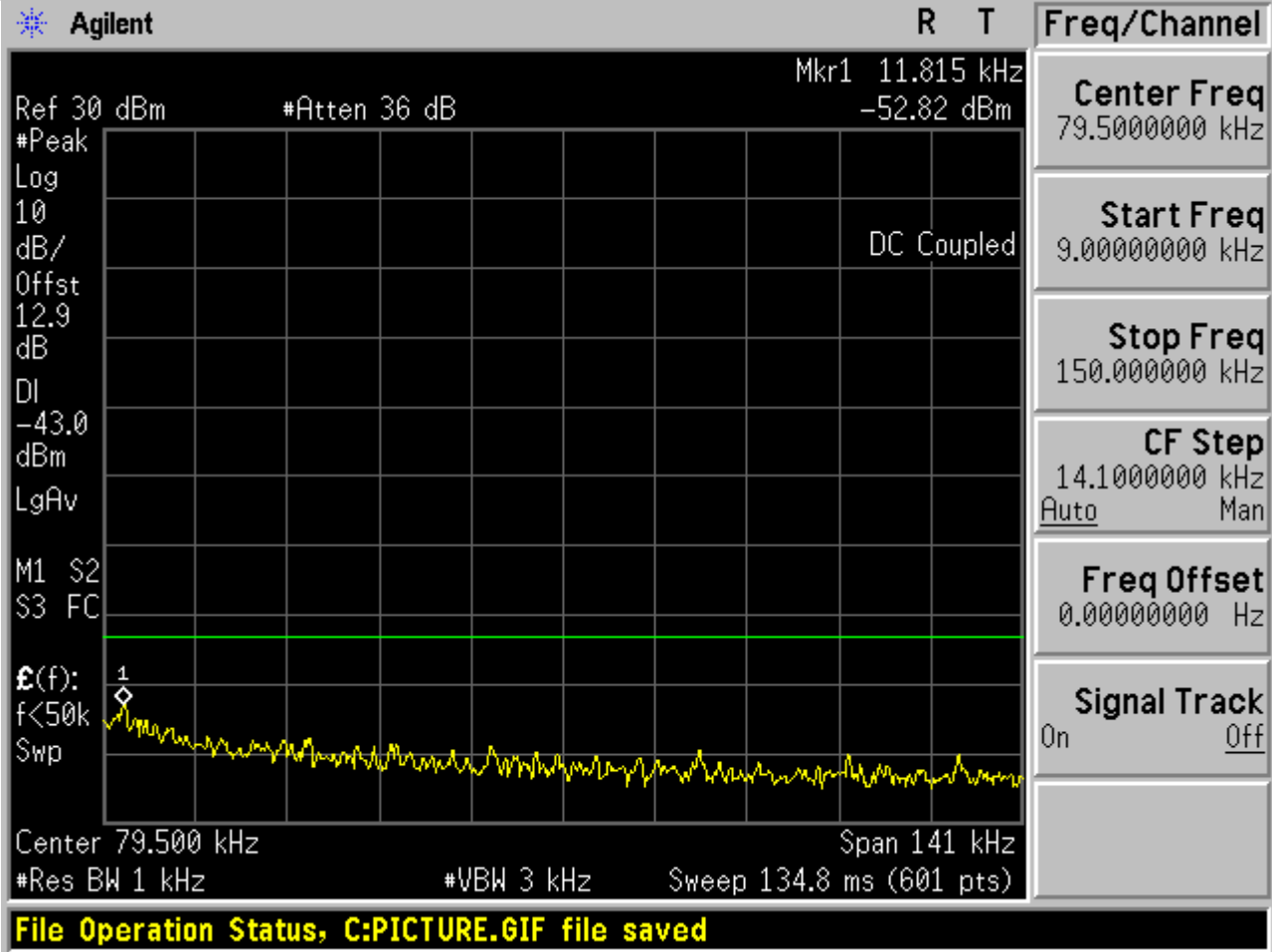




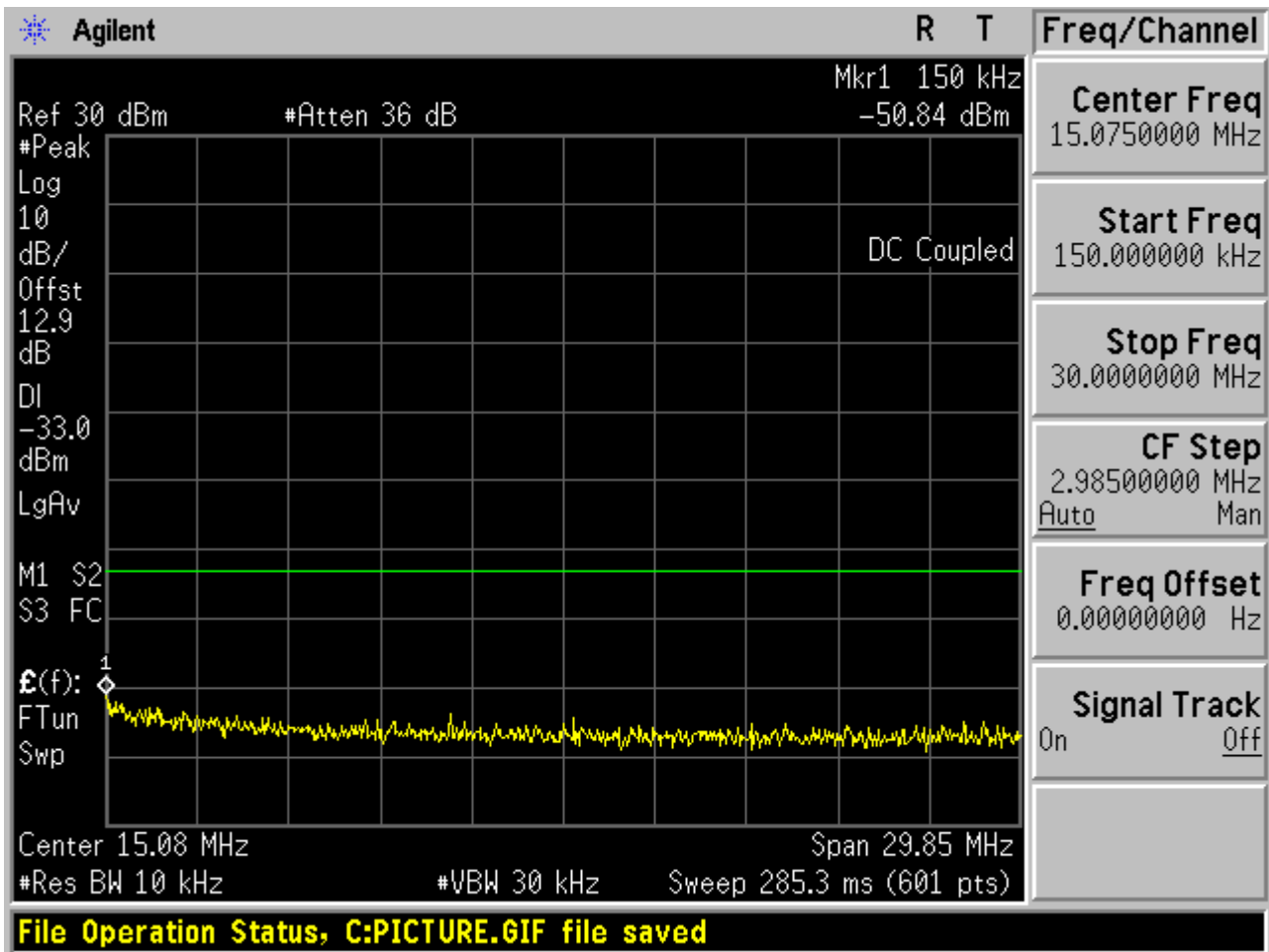


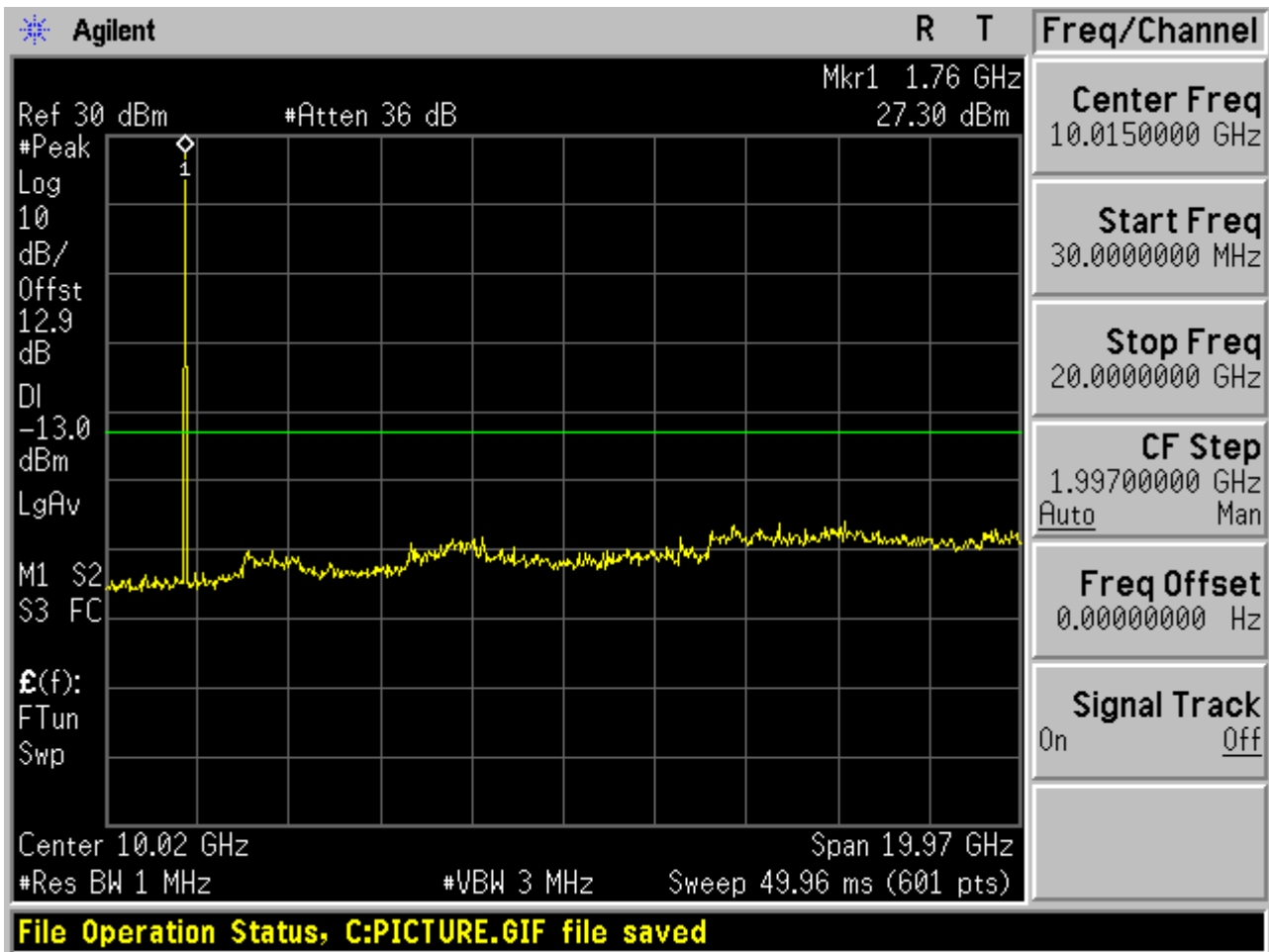
### 2.1.3.3 Channel= T

#### 2.1.3.3.1 QPSK/1RBs /RB #0







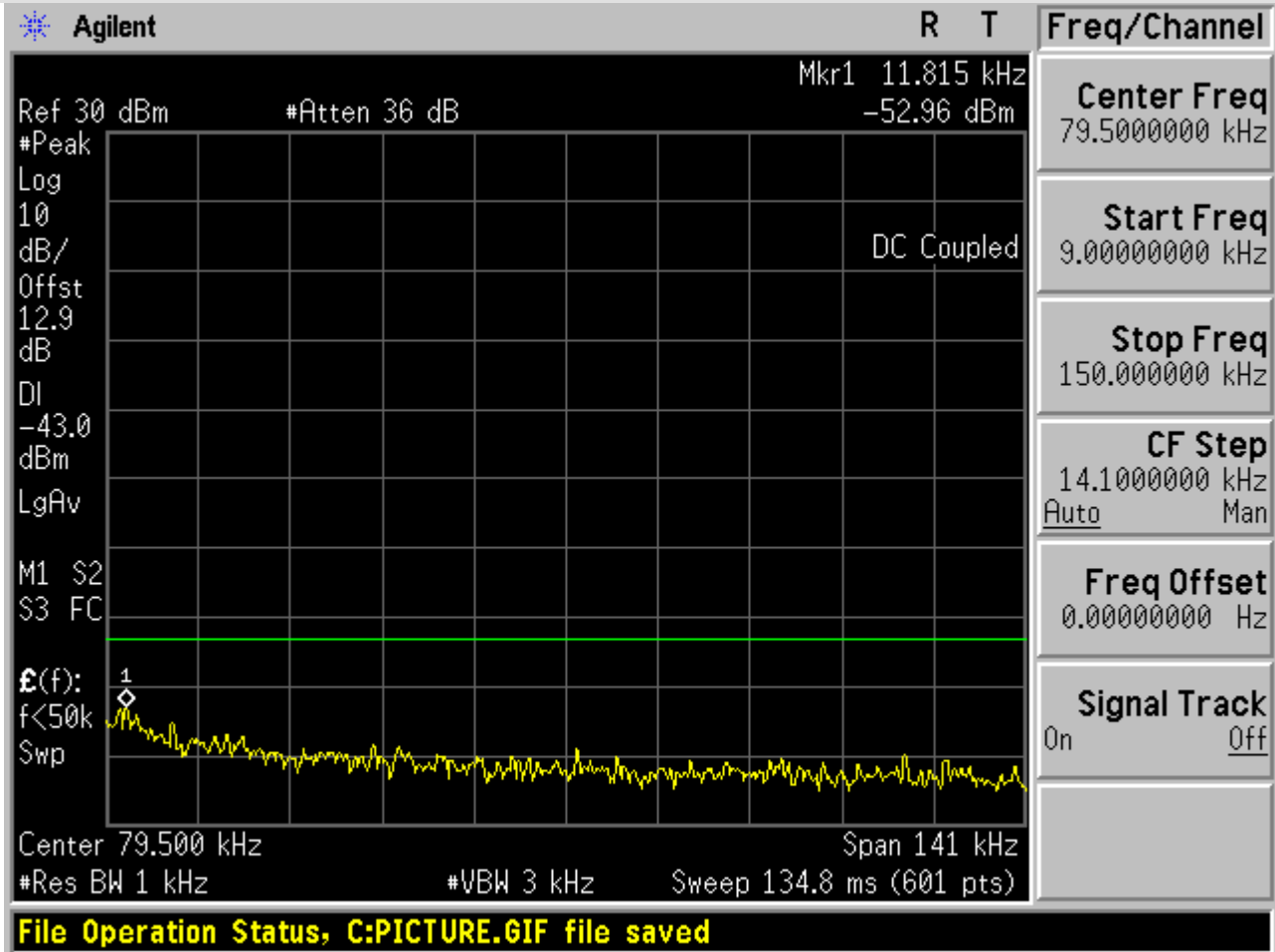


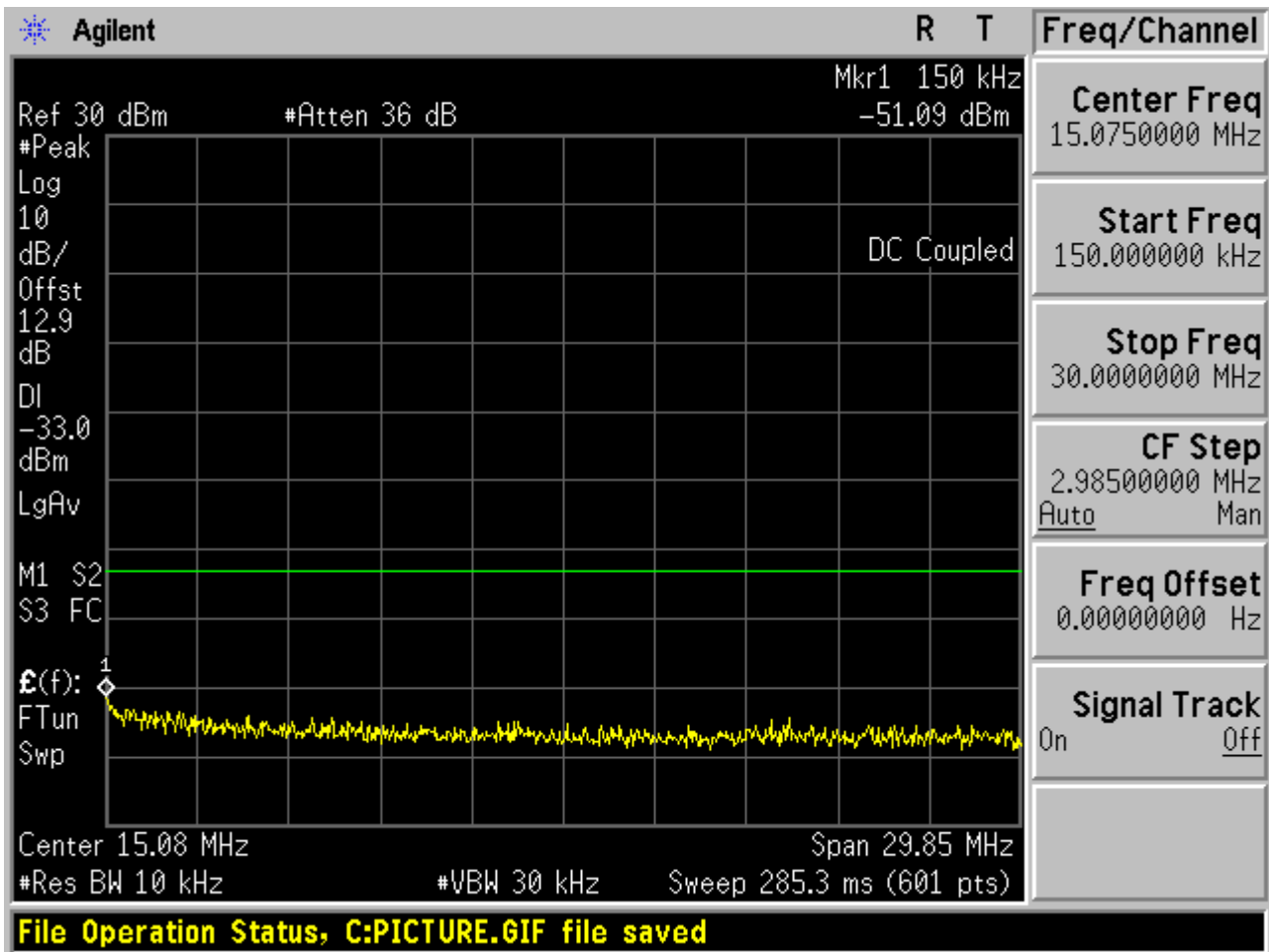


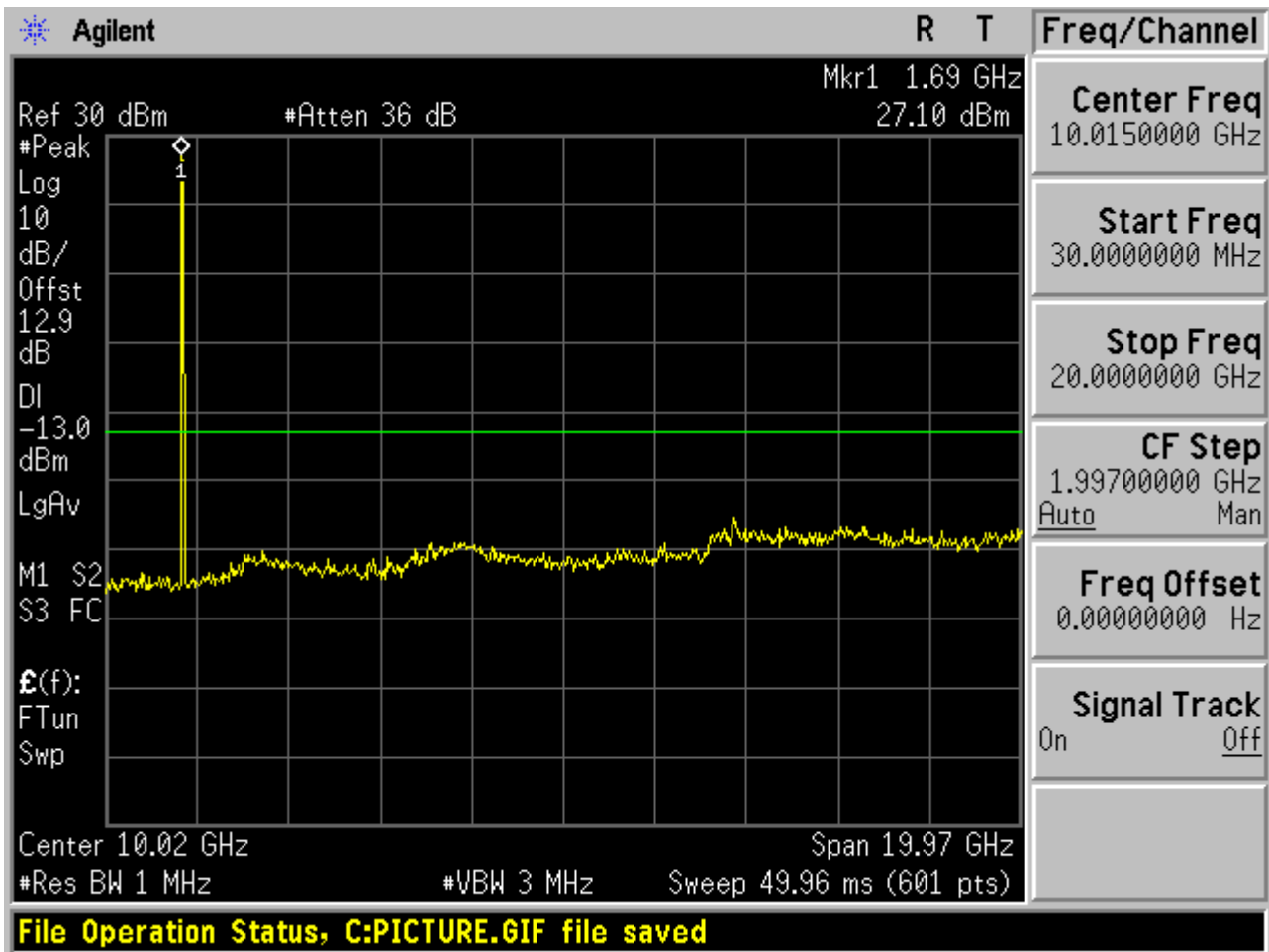
## 2.1.4 Channel Bandwidth = 10 MHz

### 2.1.4.1 Channel= B

#### 2.1.4.1.1 QPSK/1RBs /RB #0



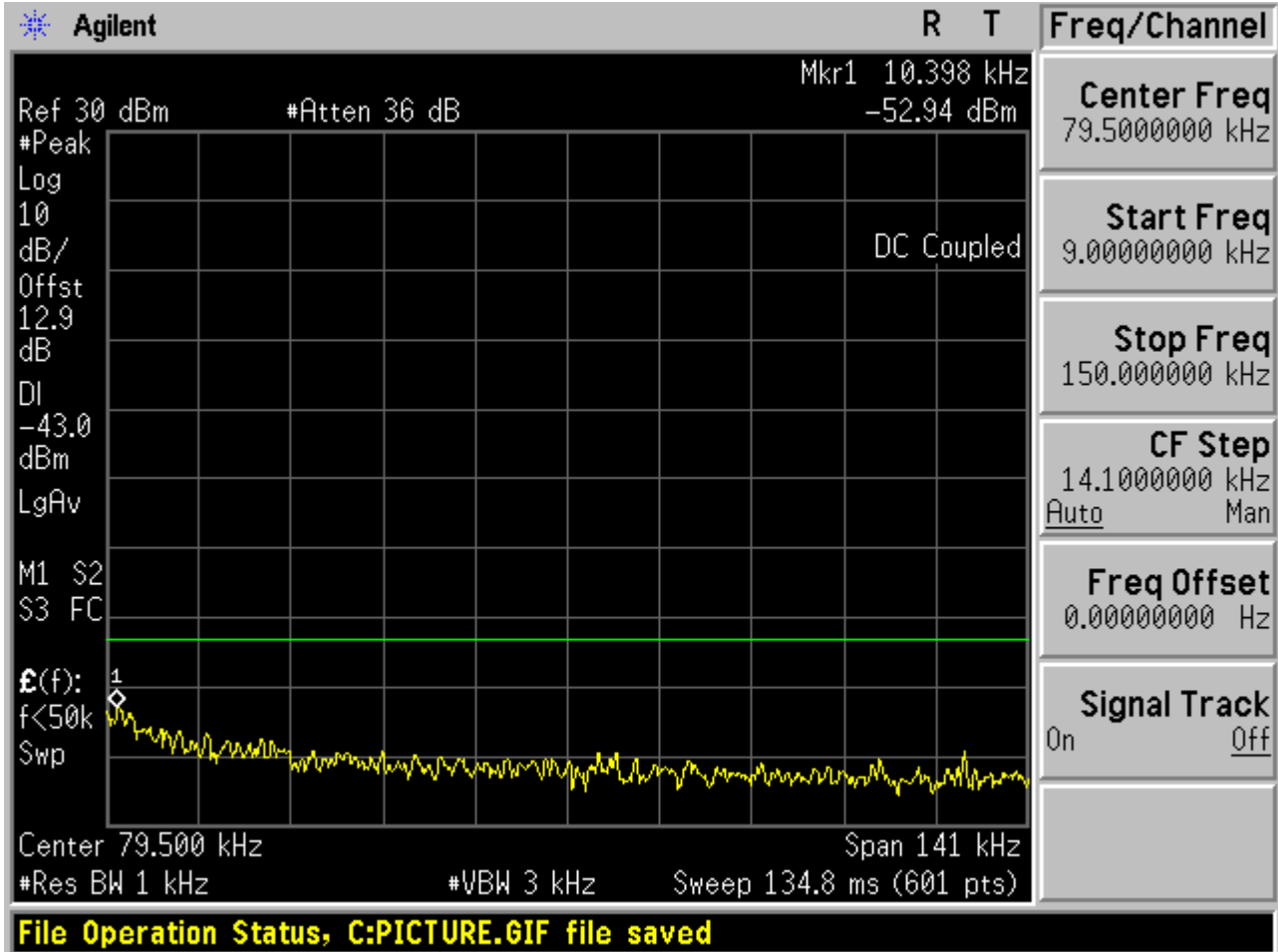


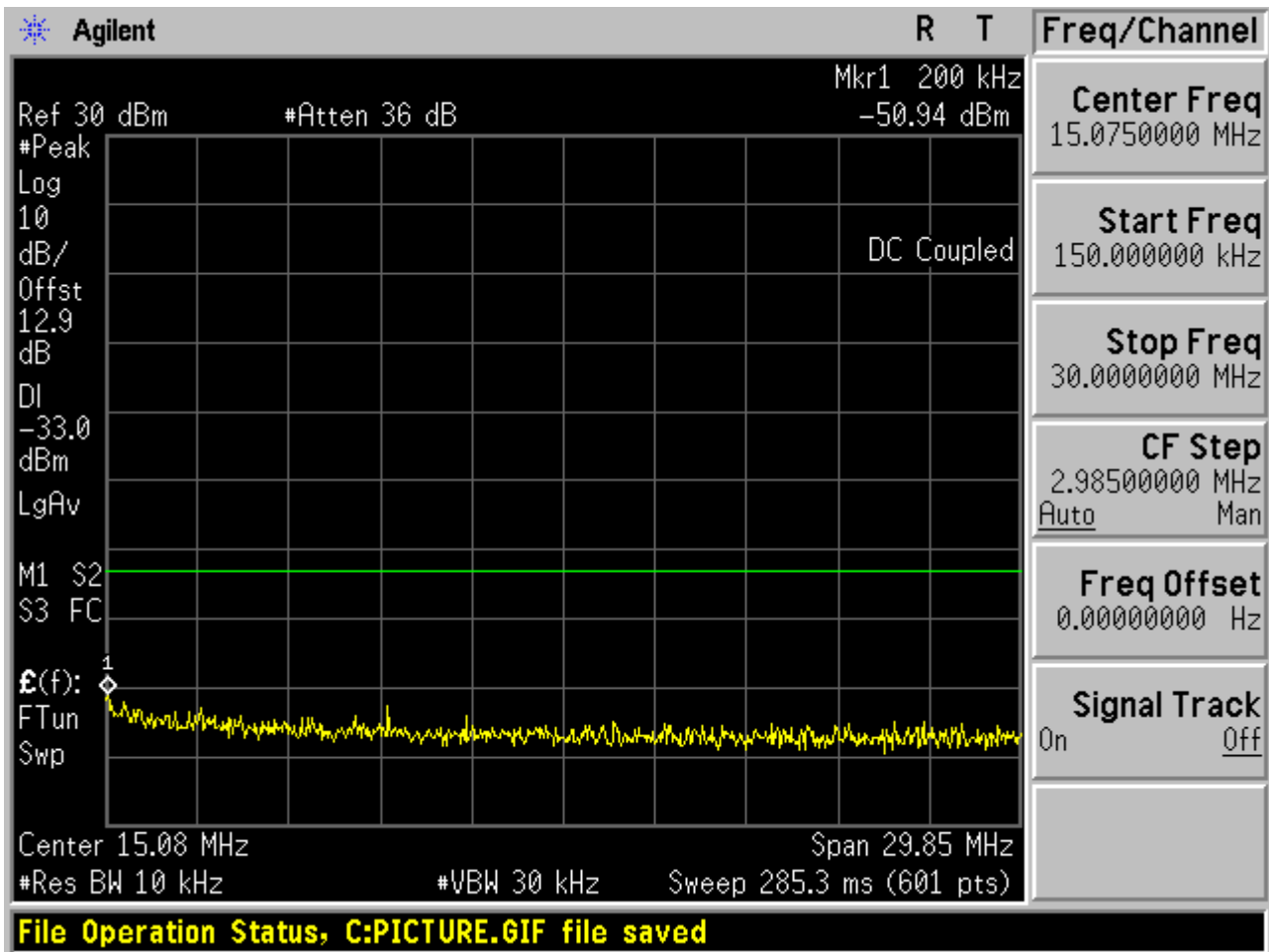


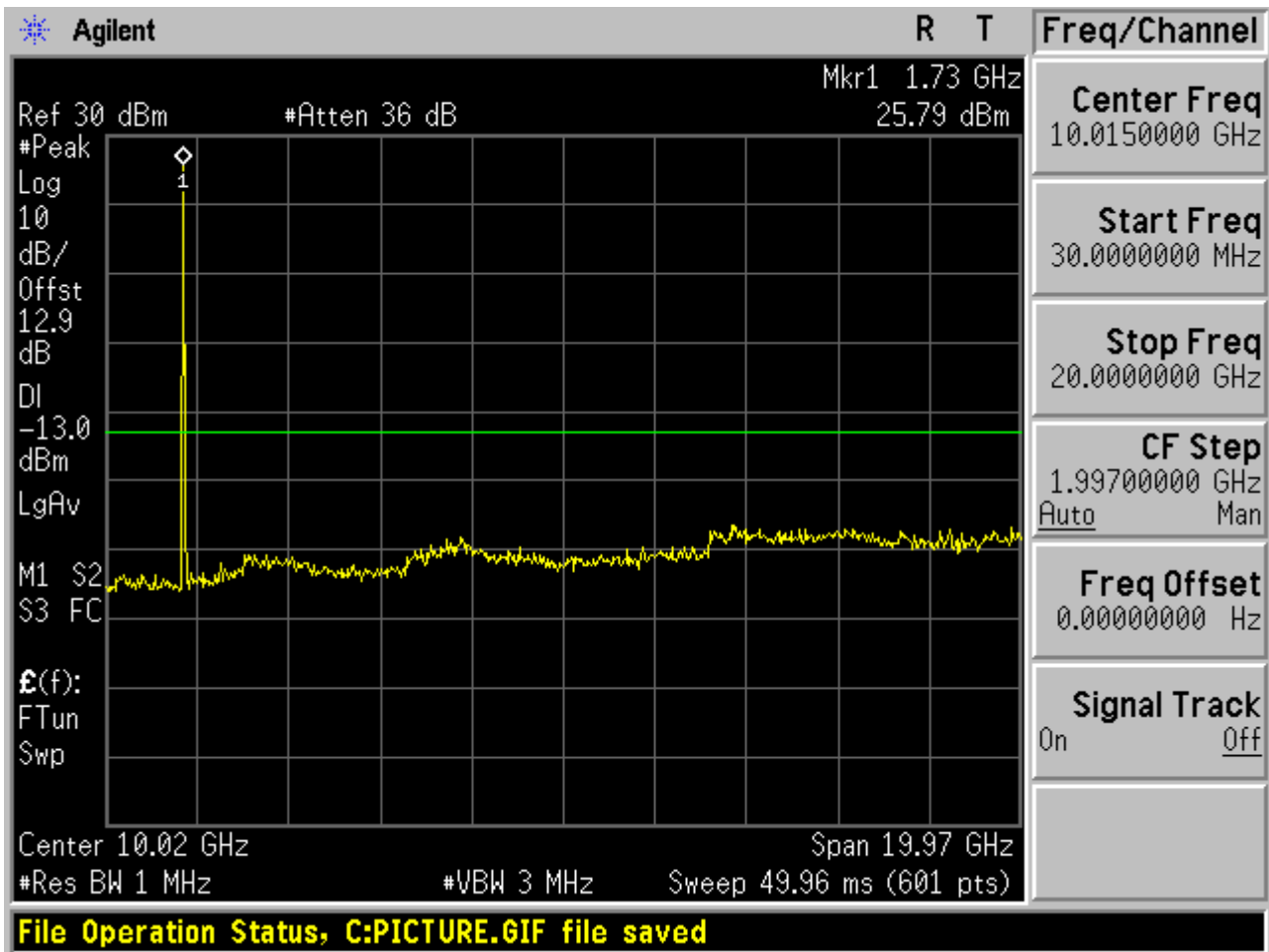


2.1.4.2 Channel = M

2.1.4.2.1 QPSK/1RBs /RB #0





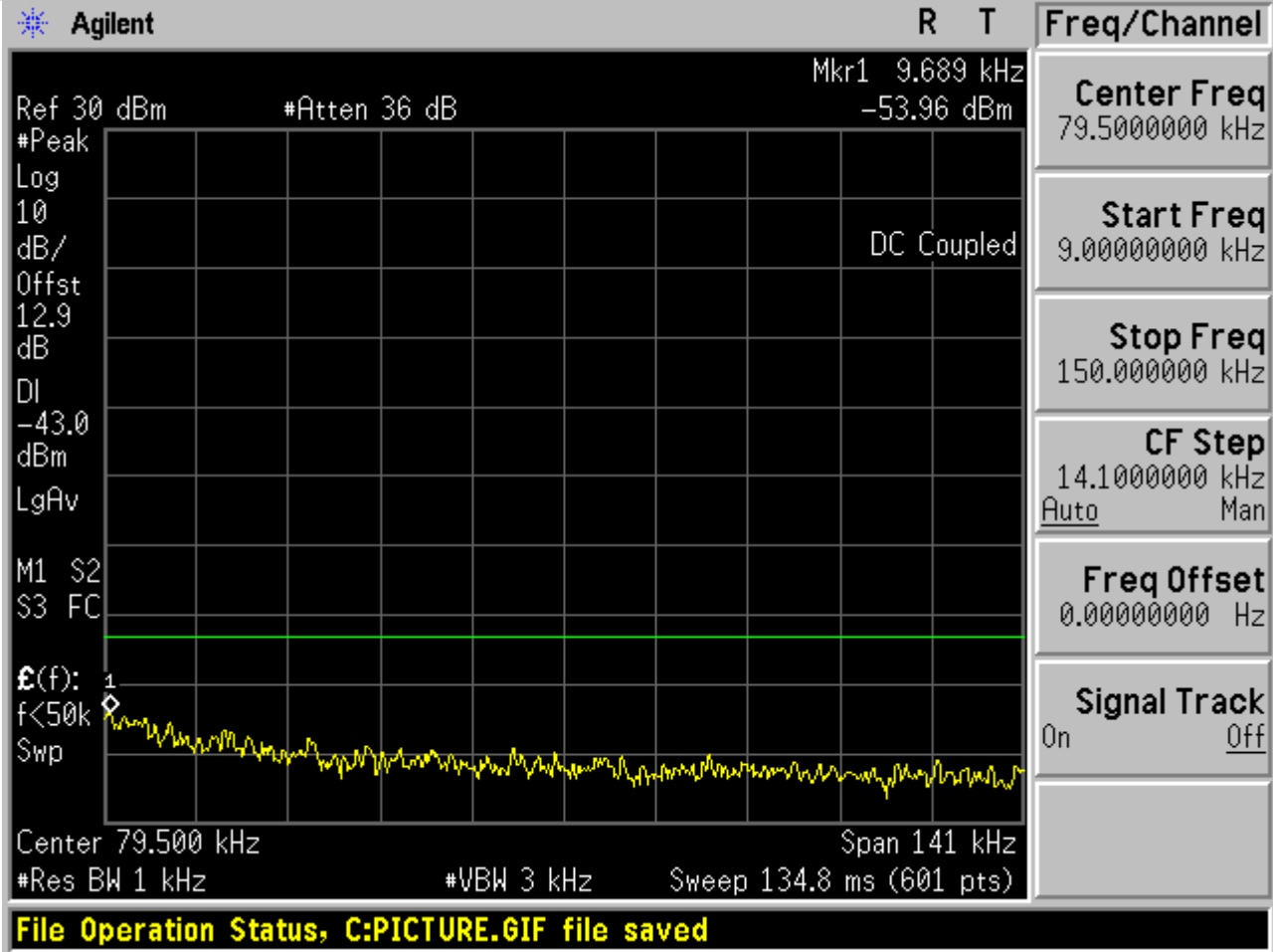


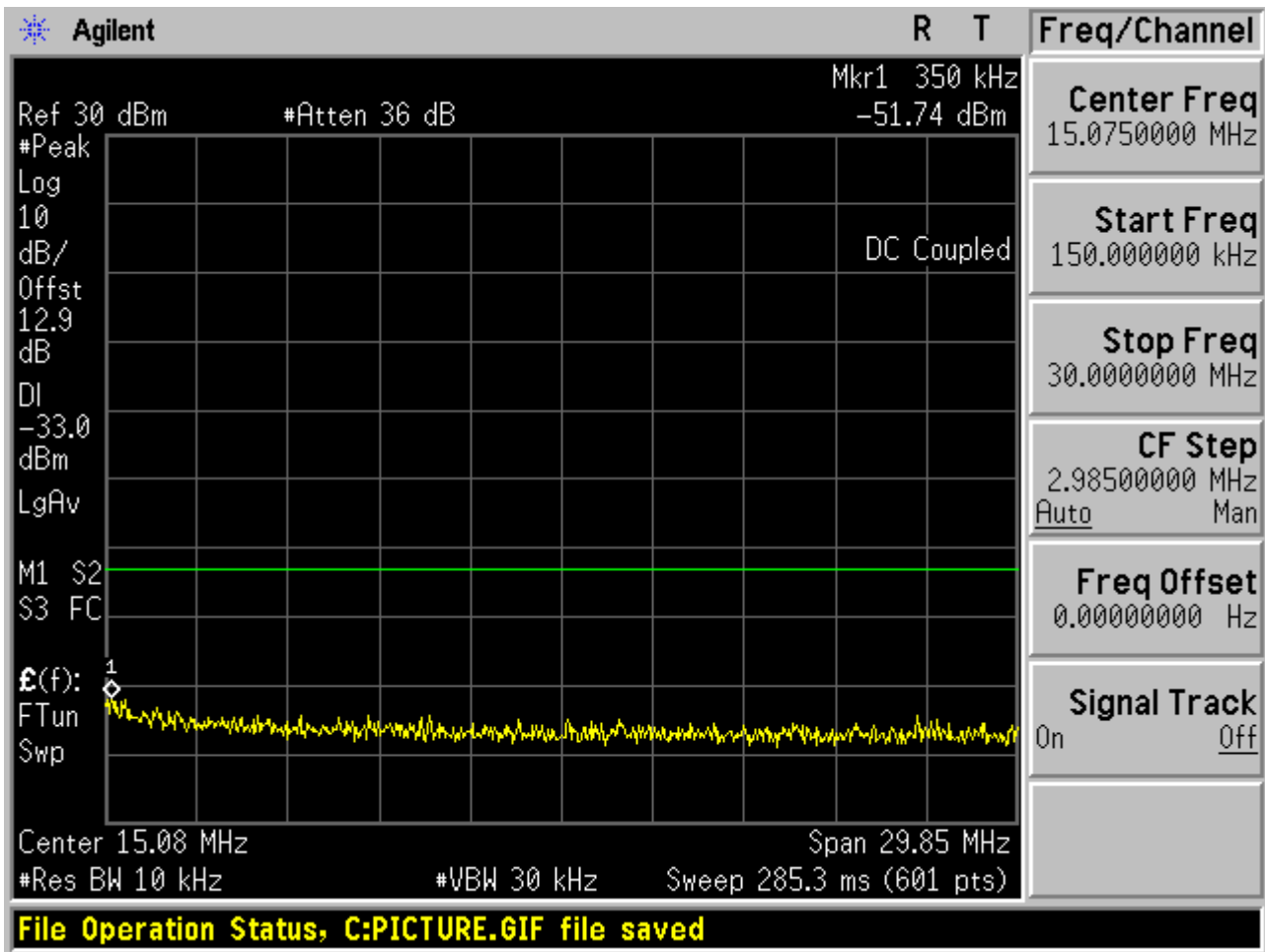


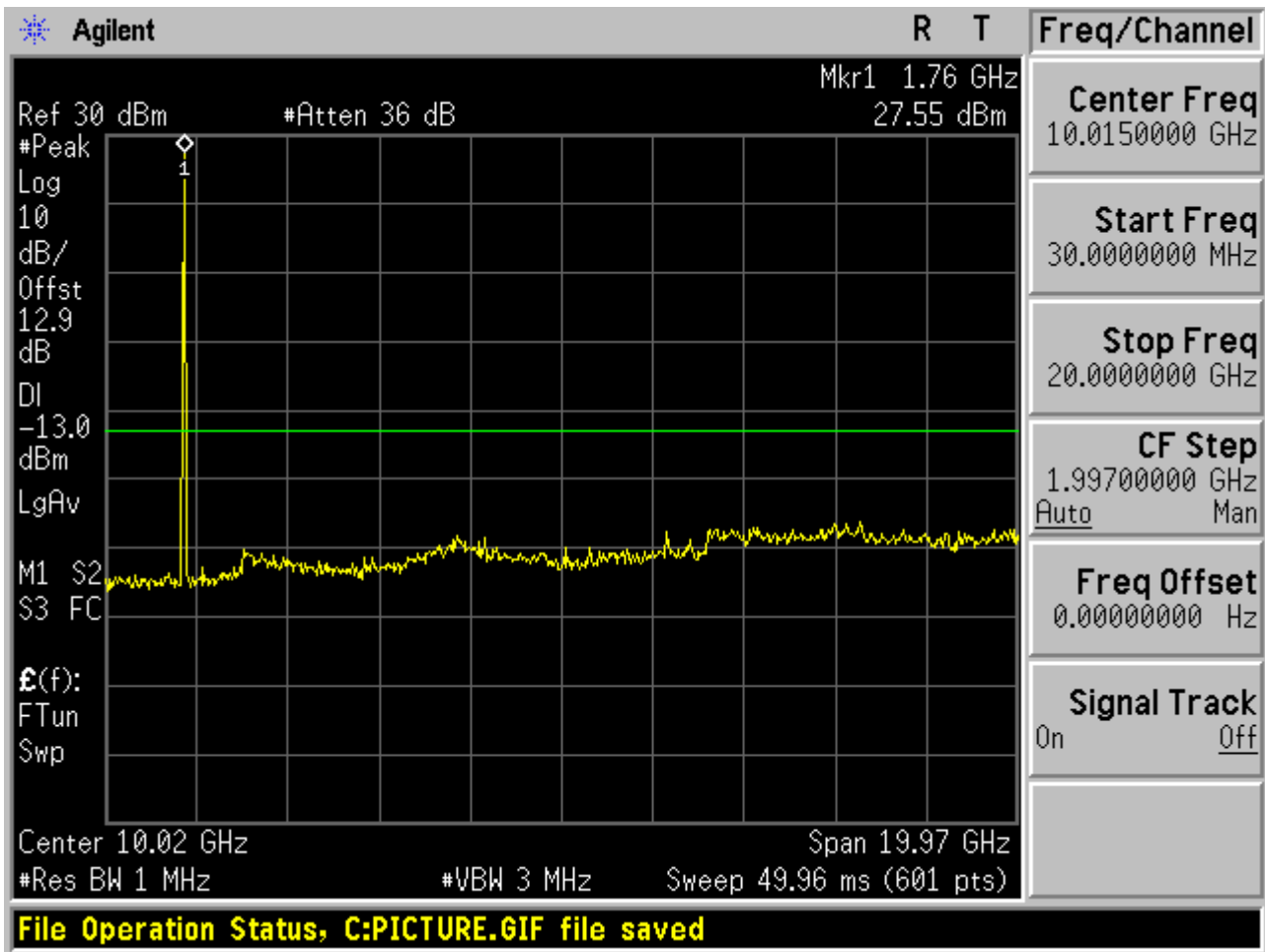


### 2.1.4.3 Channel= T

#### 2.1.4.3.1 QPSK/1RBs /RB #0





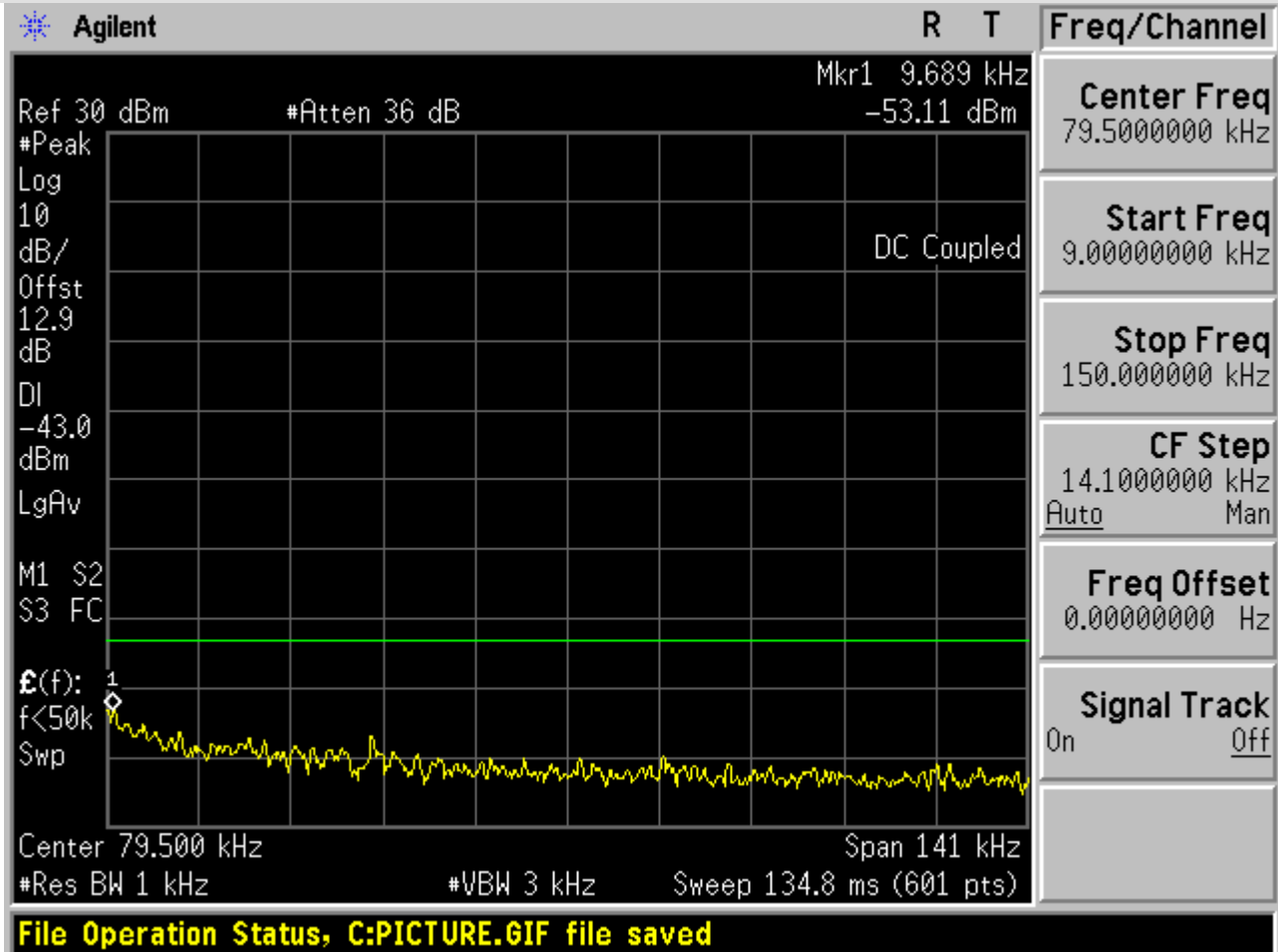


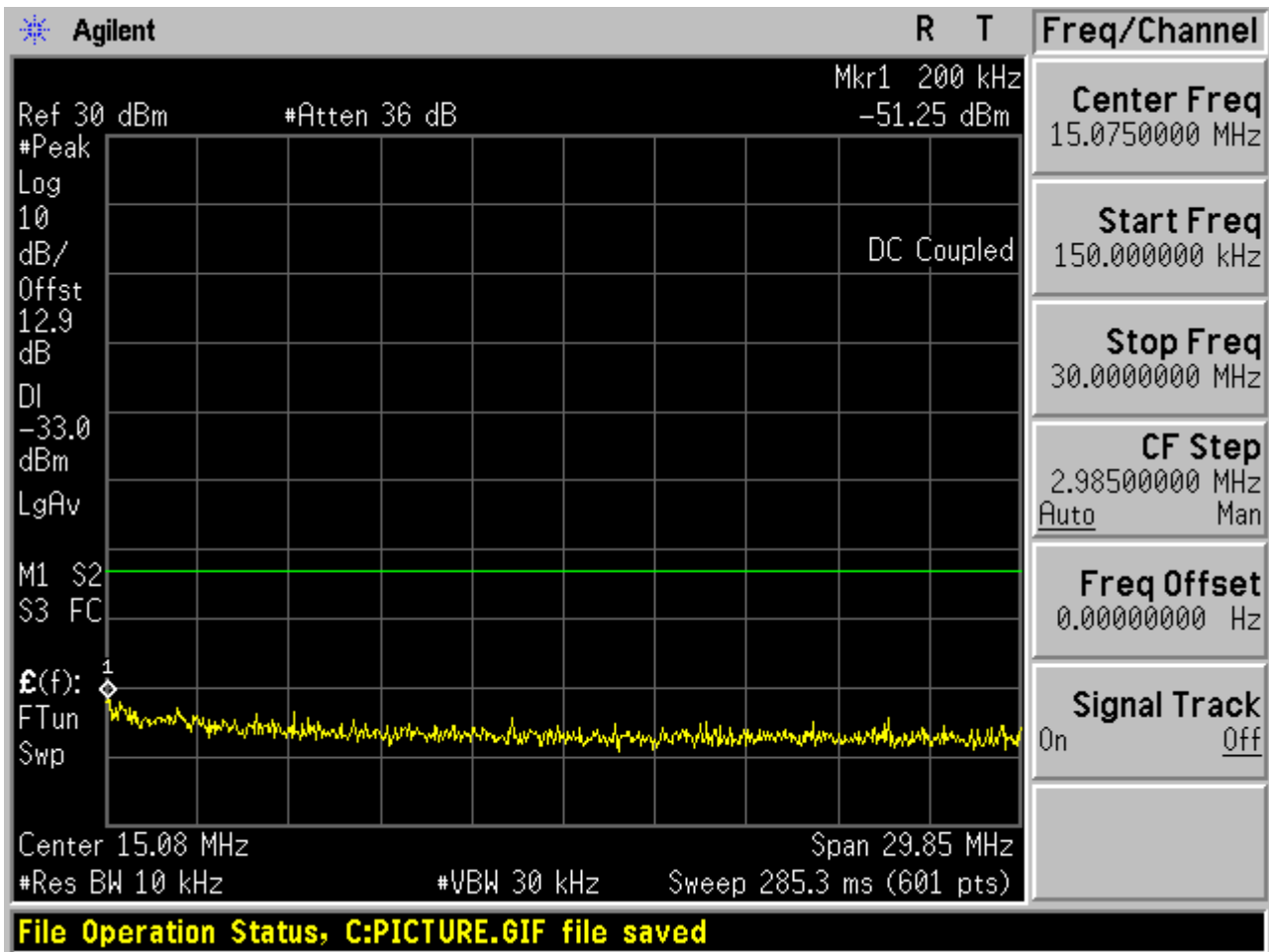


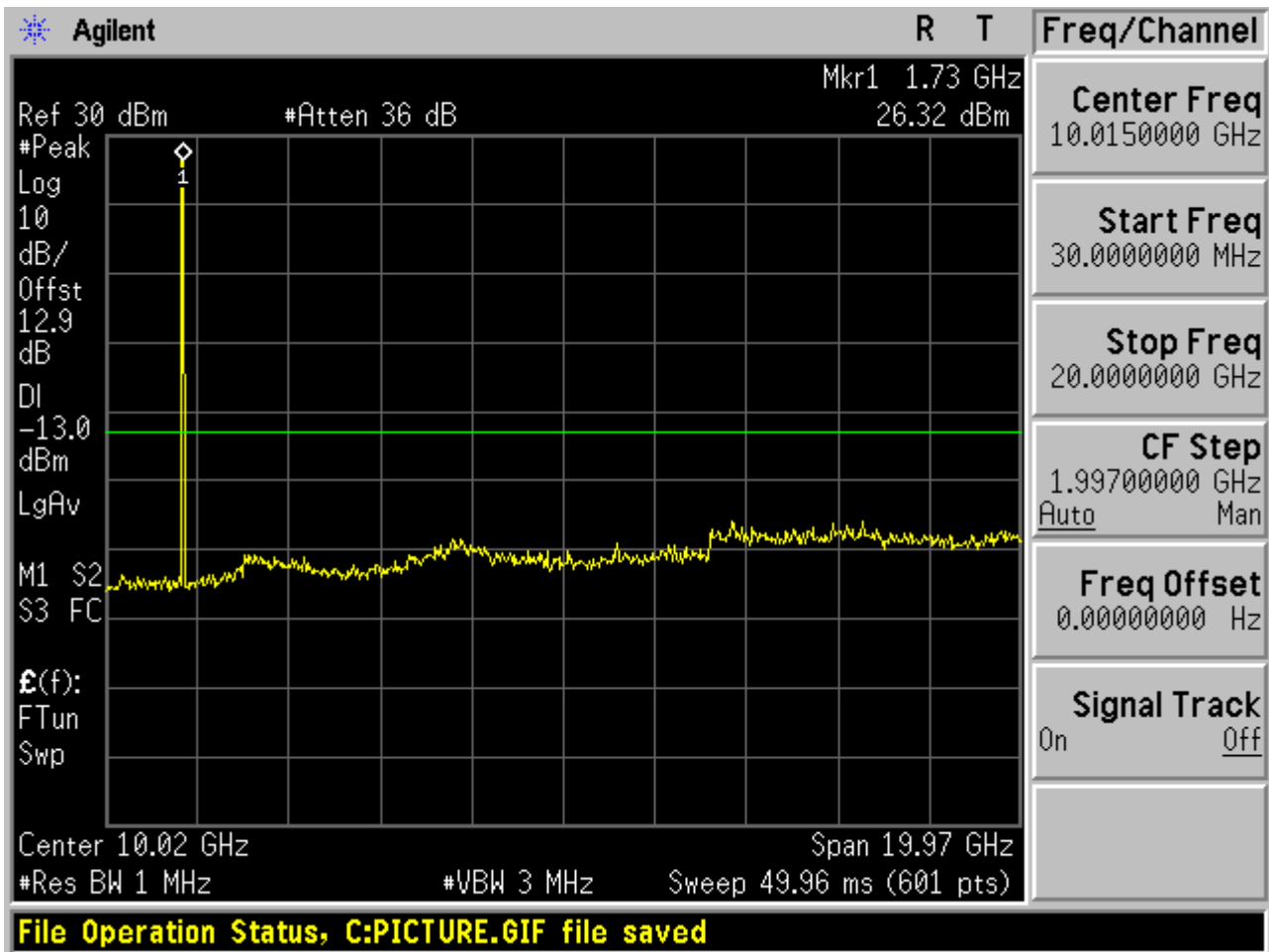
## 2.1.5 Channel Bandwidth = 15 MHz

### 2.1.5.1 Channel= B

#### 2.1.5.1.1 QPSK/1RBs /RB #0



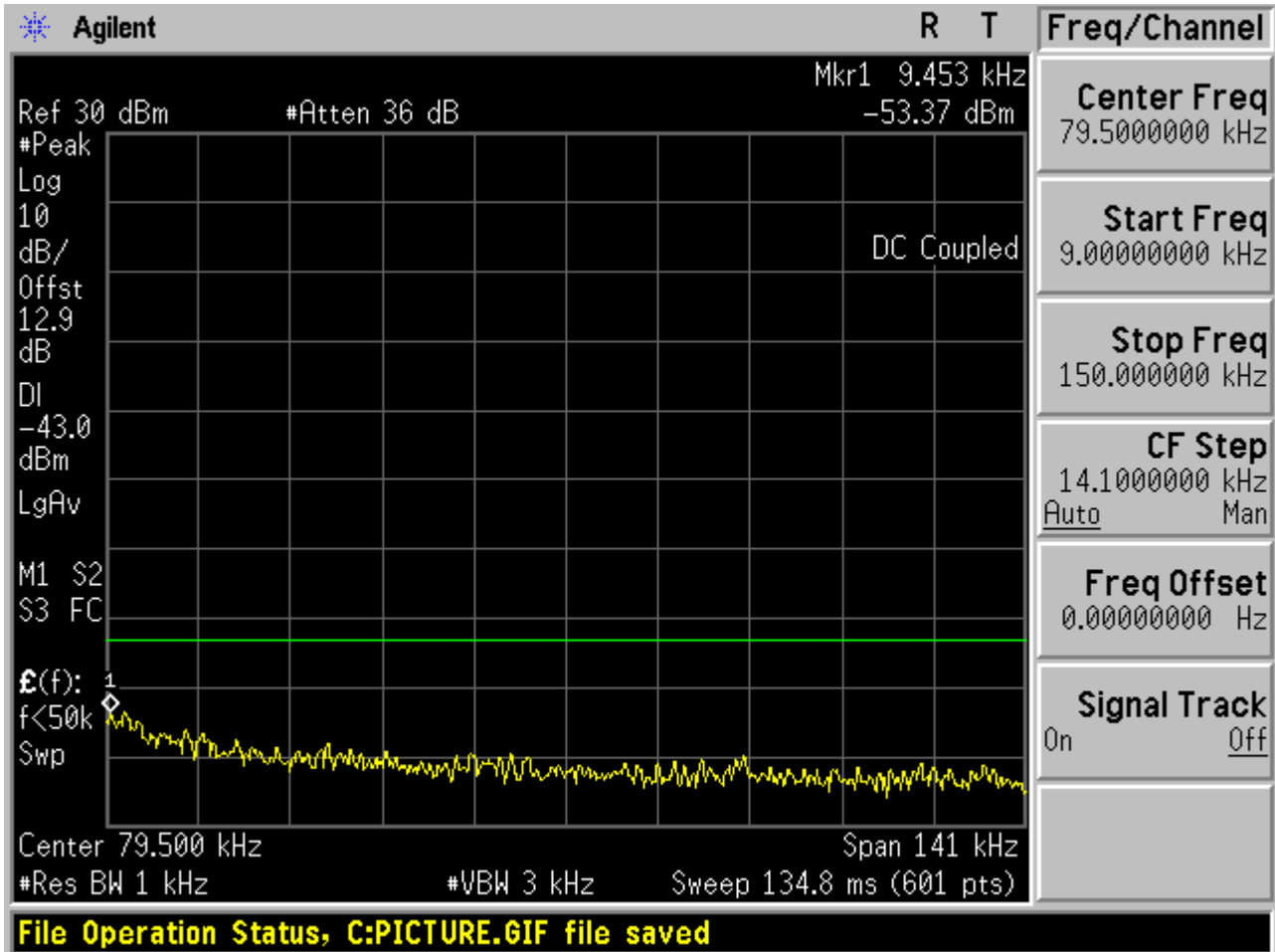


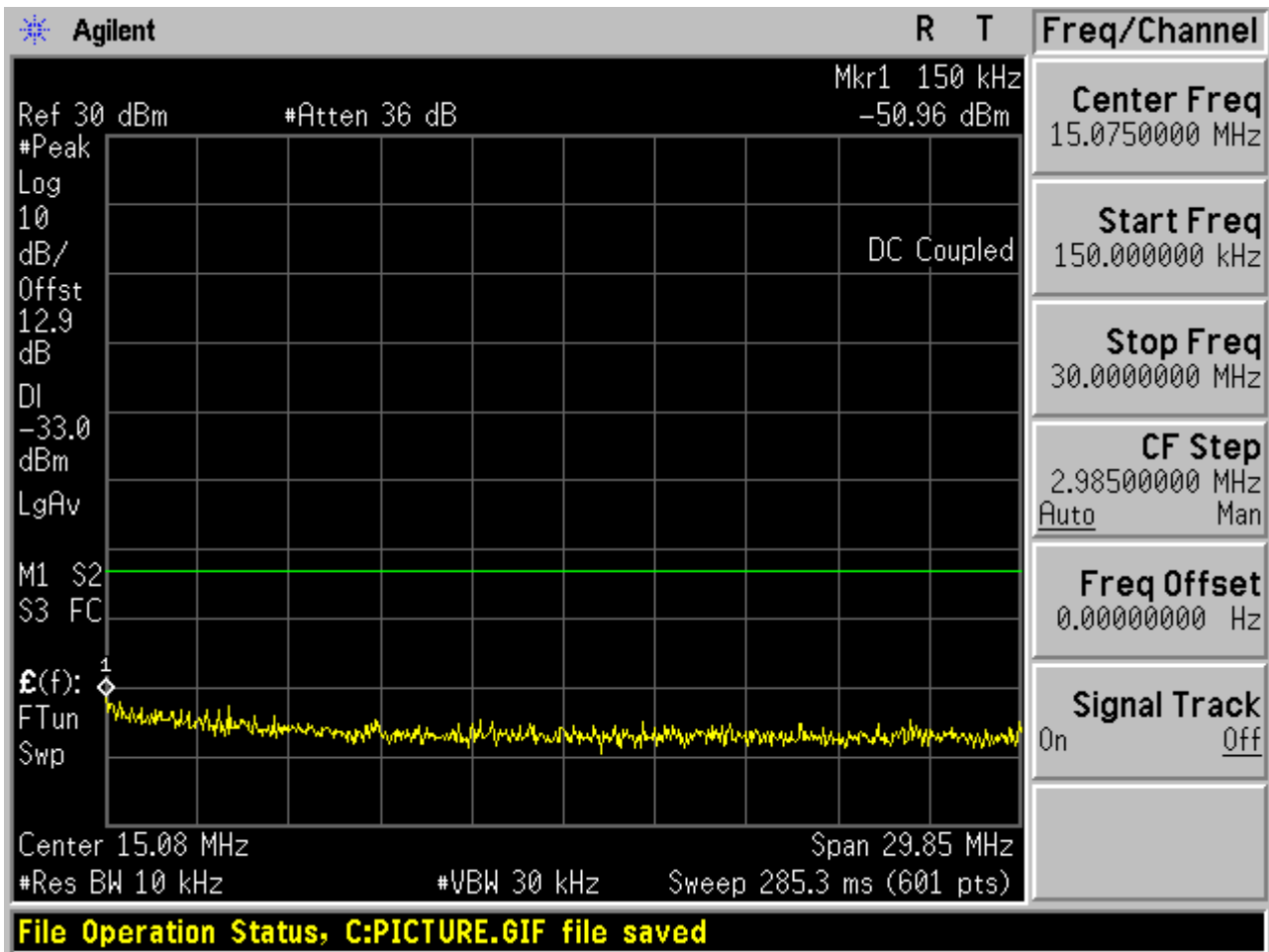




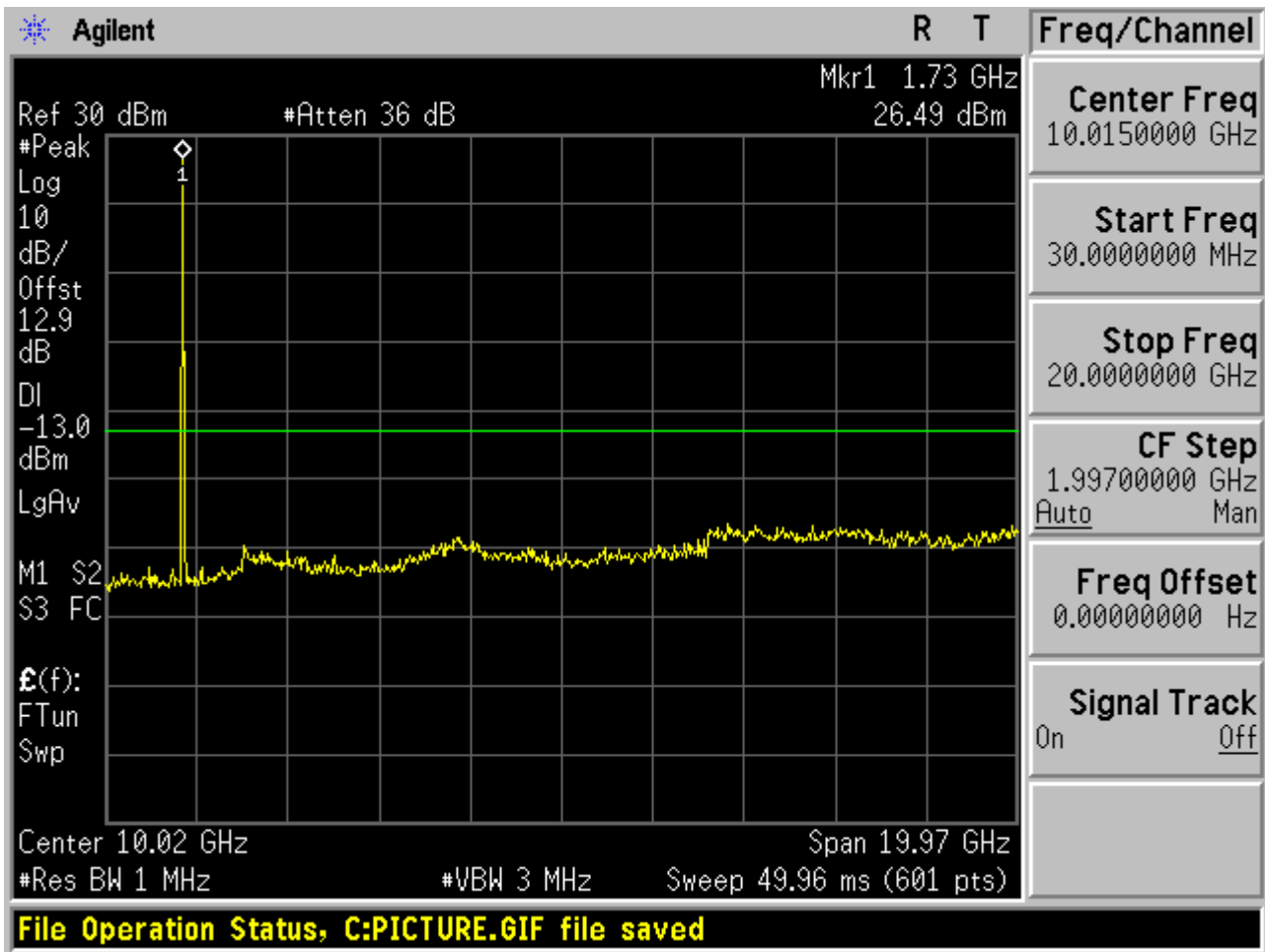
## 2.1.5.2 Channel = M

### 2.1.5.2.1 QPSK/1RBs /RB #0





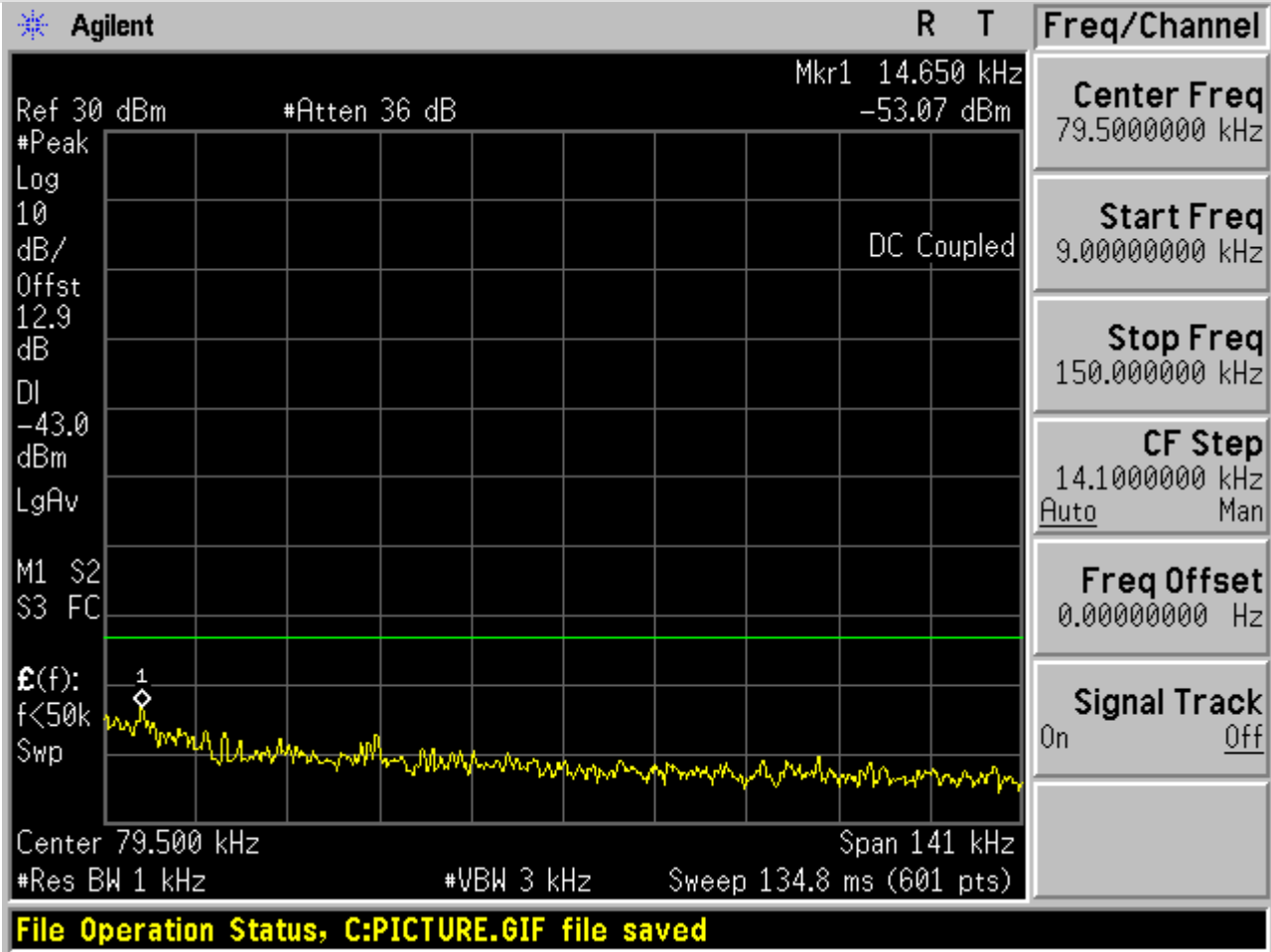


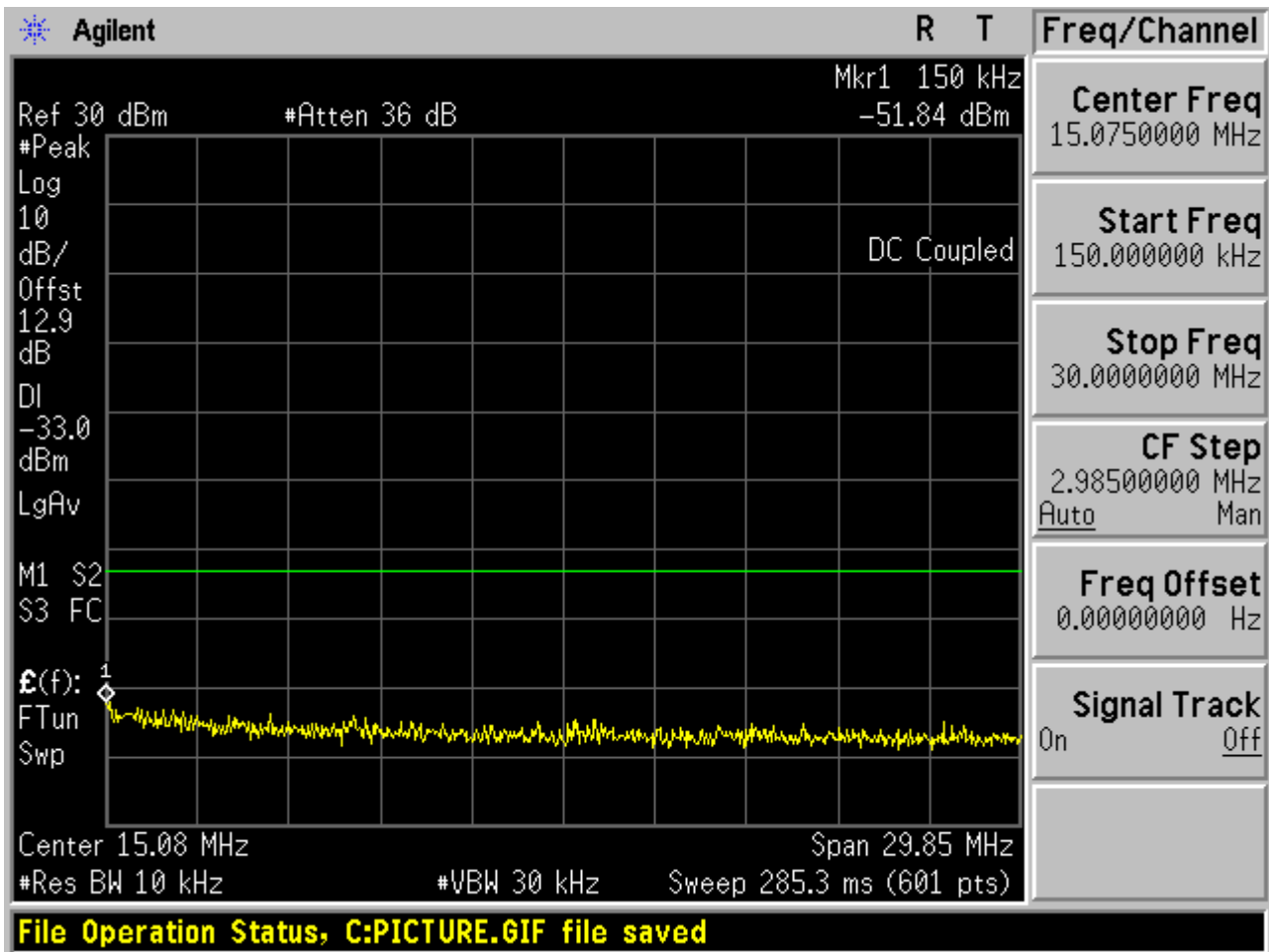


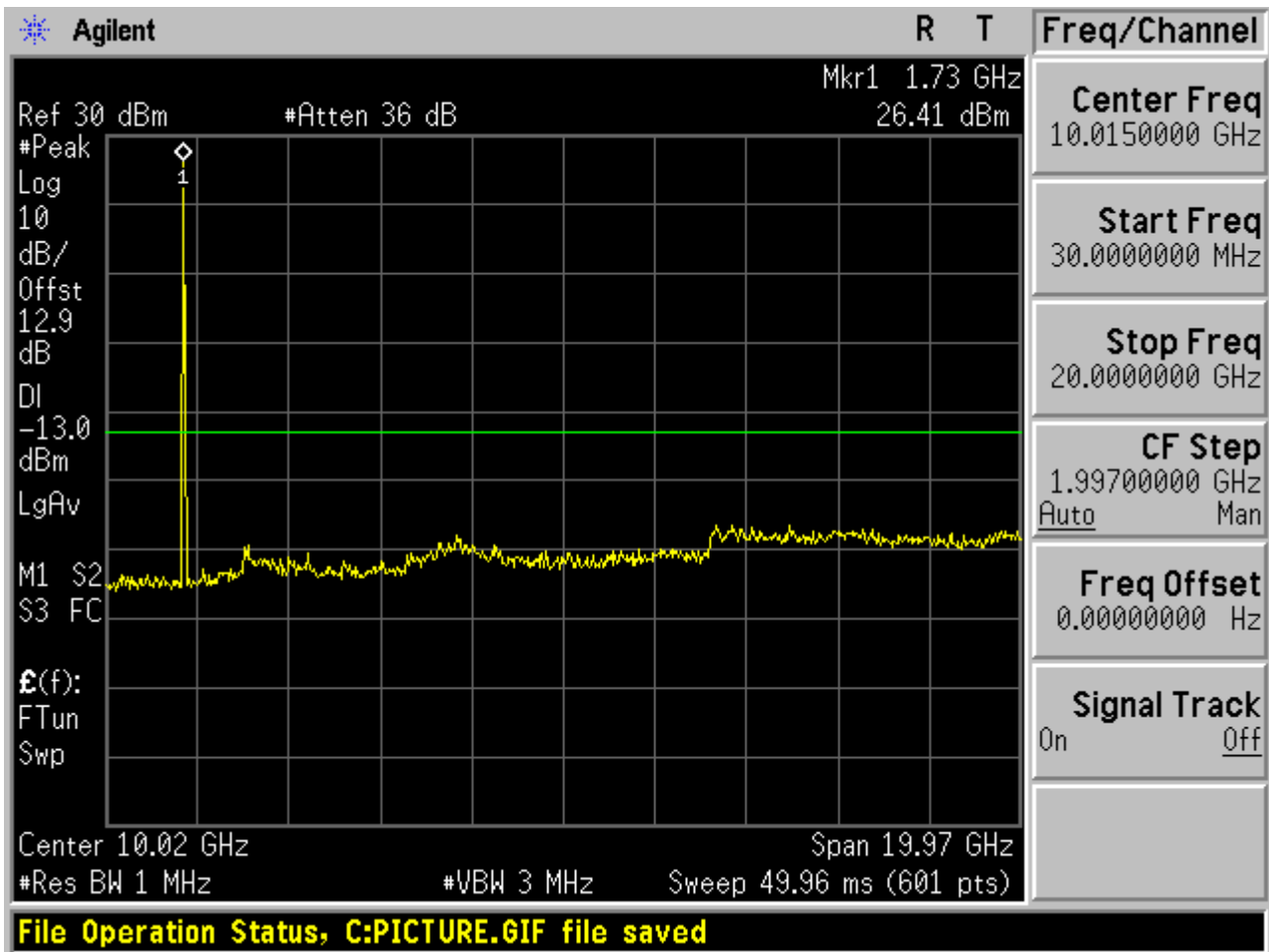


### 2.1.5.3 Channel= T

#### 2.1.5.3.1 QPSK/1RBs /RB #0





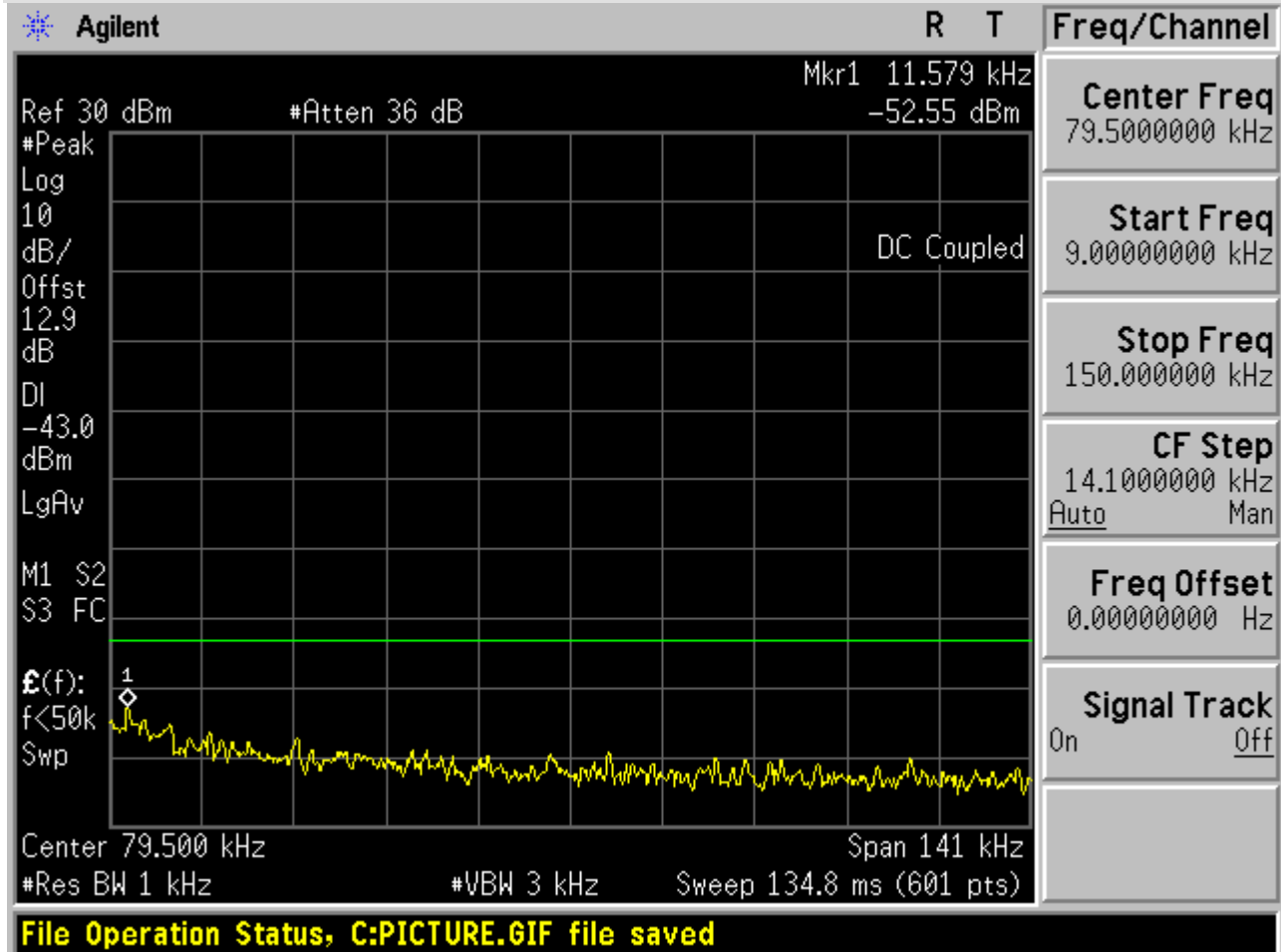


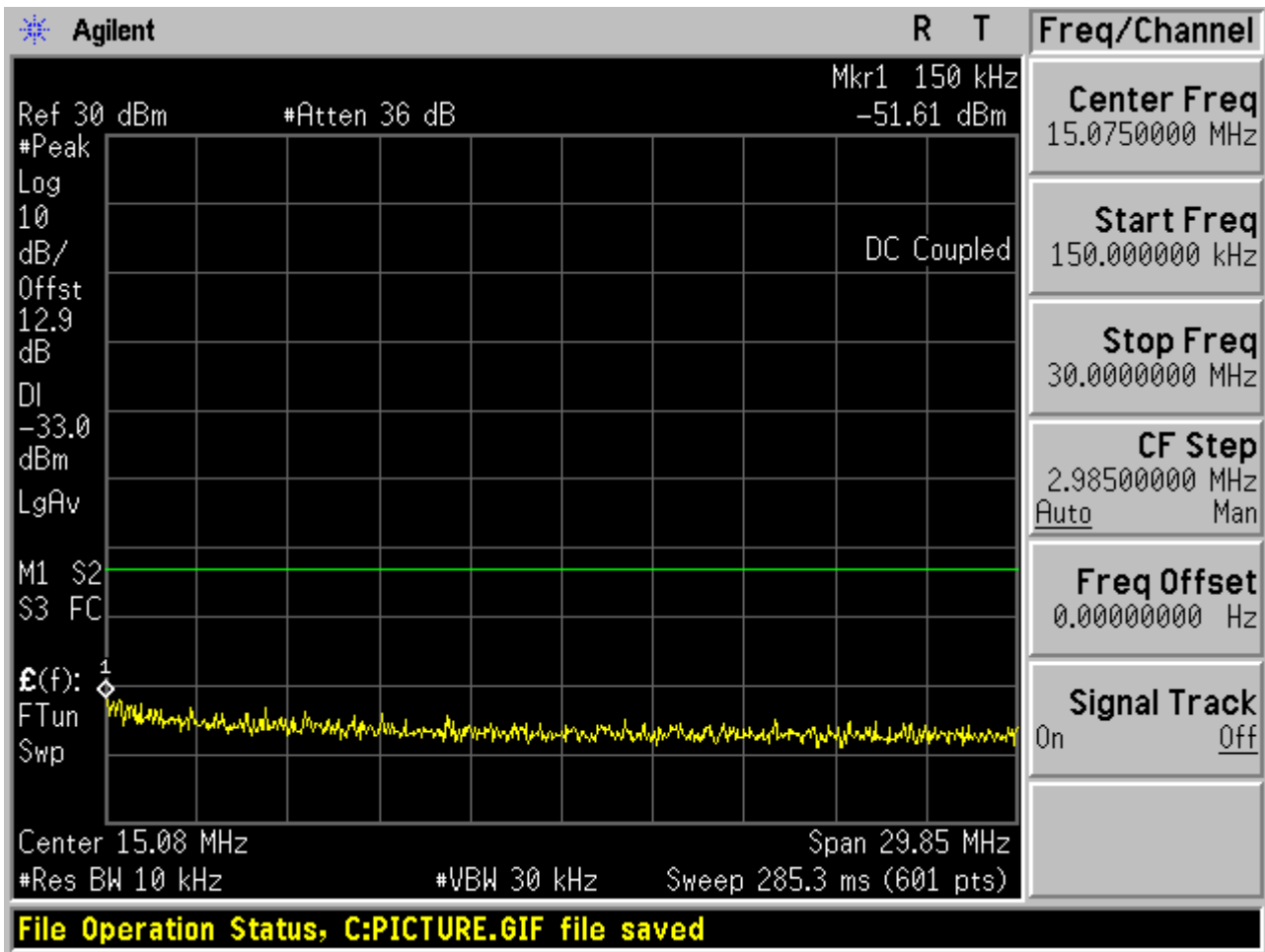


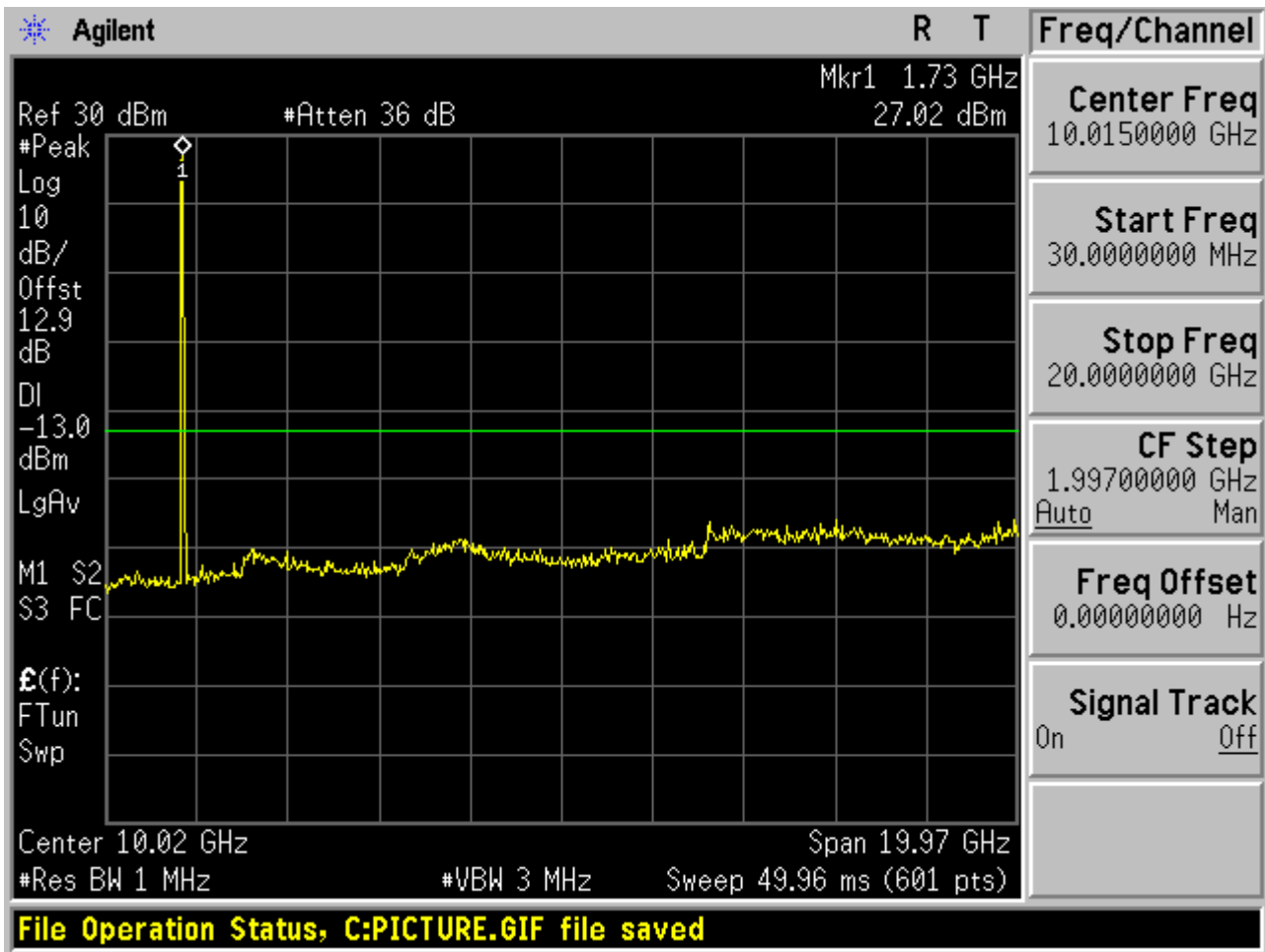
## 2.1.6 Channel Bandwidth = 20 MHz

### 2.1.6.1 Channel= B

#### 2.1.6.1.1 QPSK/1RBs /RB #0



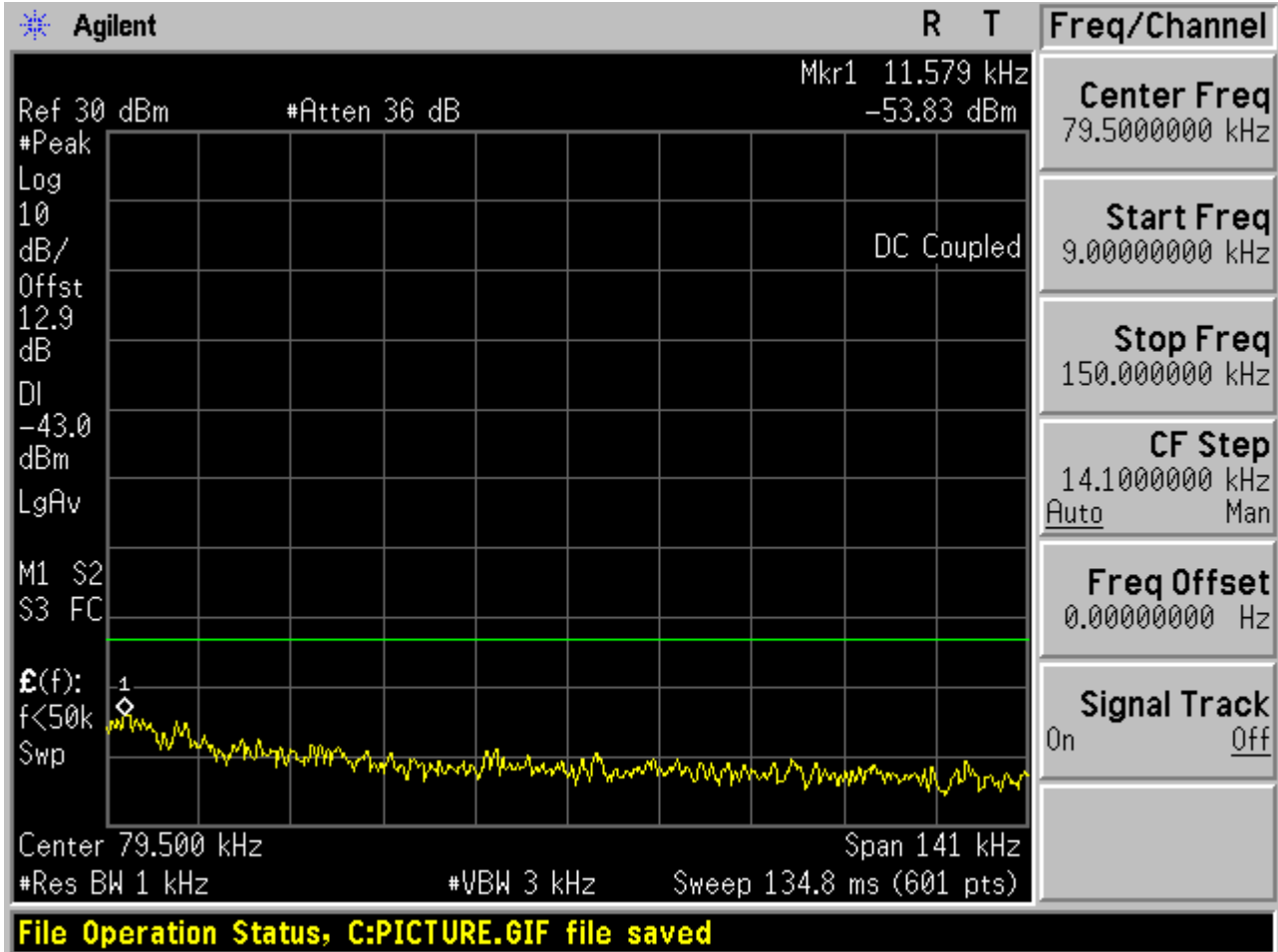




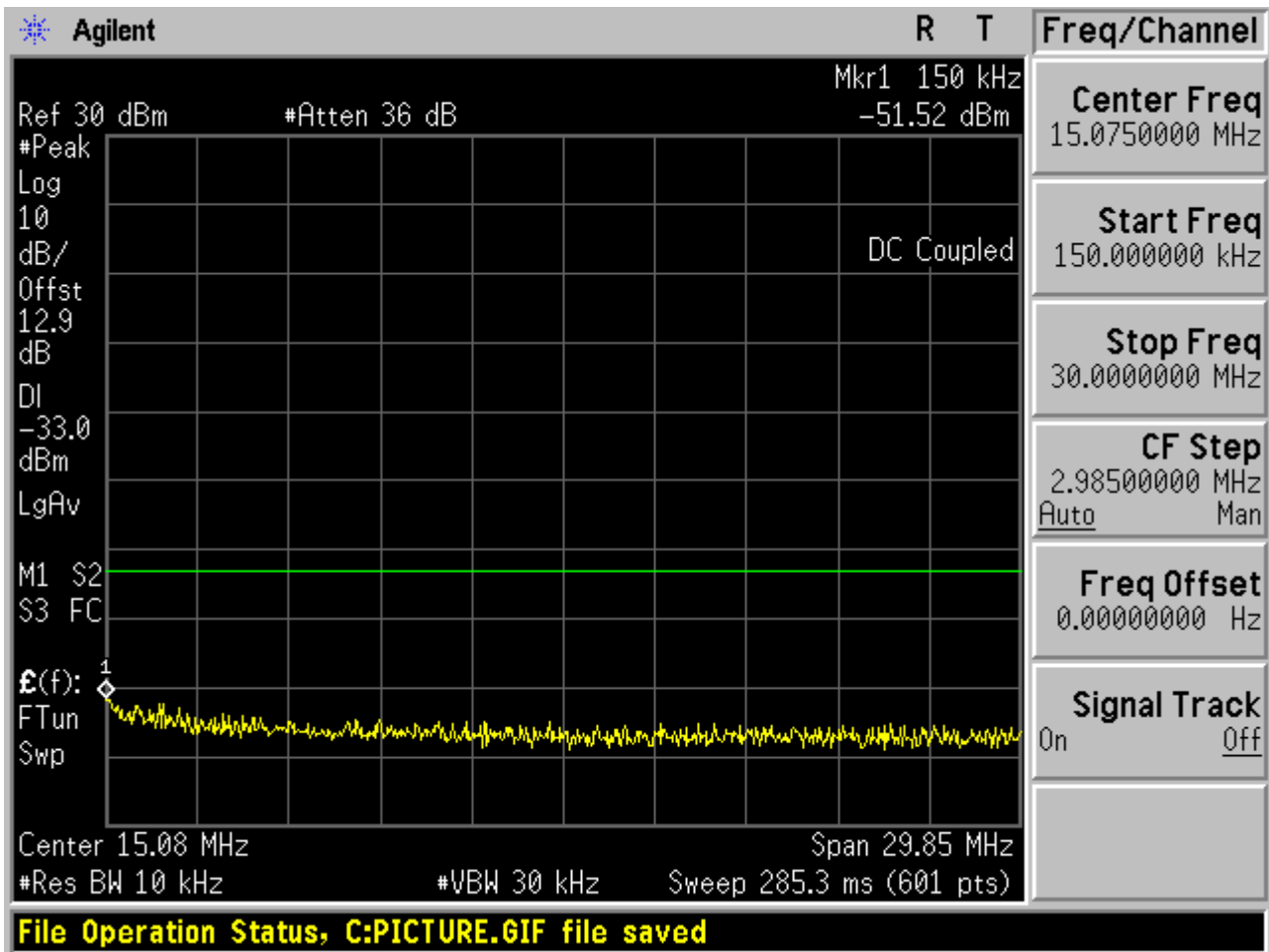


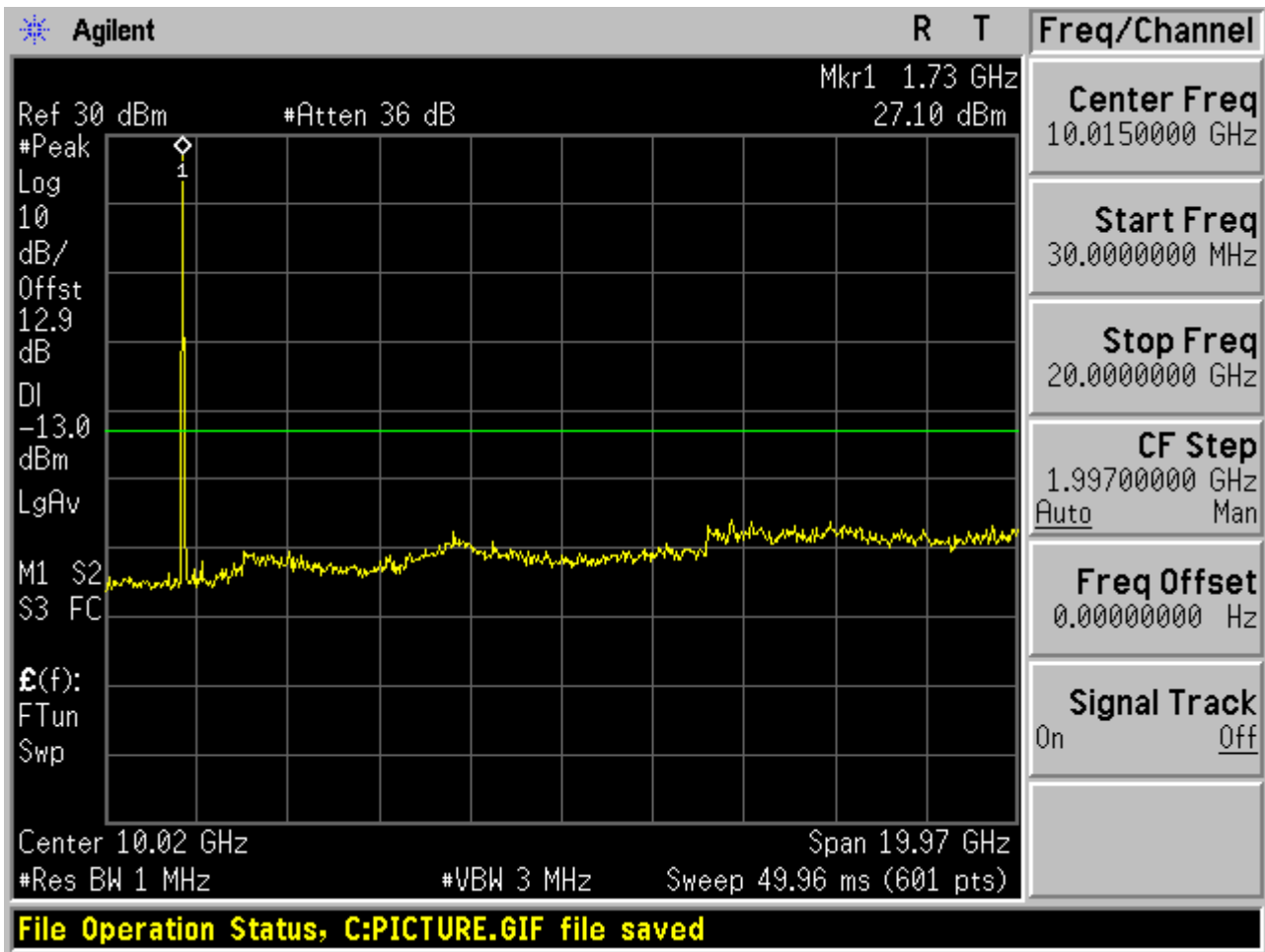
## 2.1.6.2 Channel = M

### 2.1.6.2.1 QPSK/1RBs /RB #0





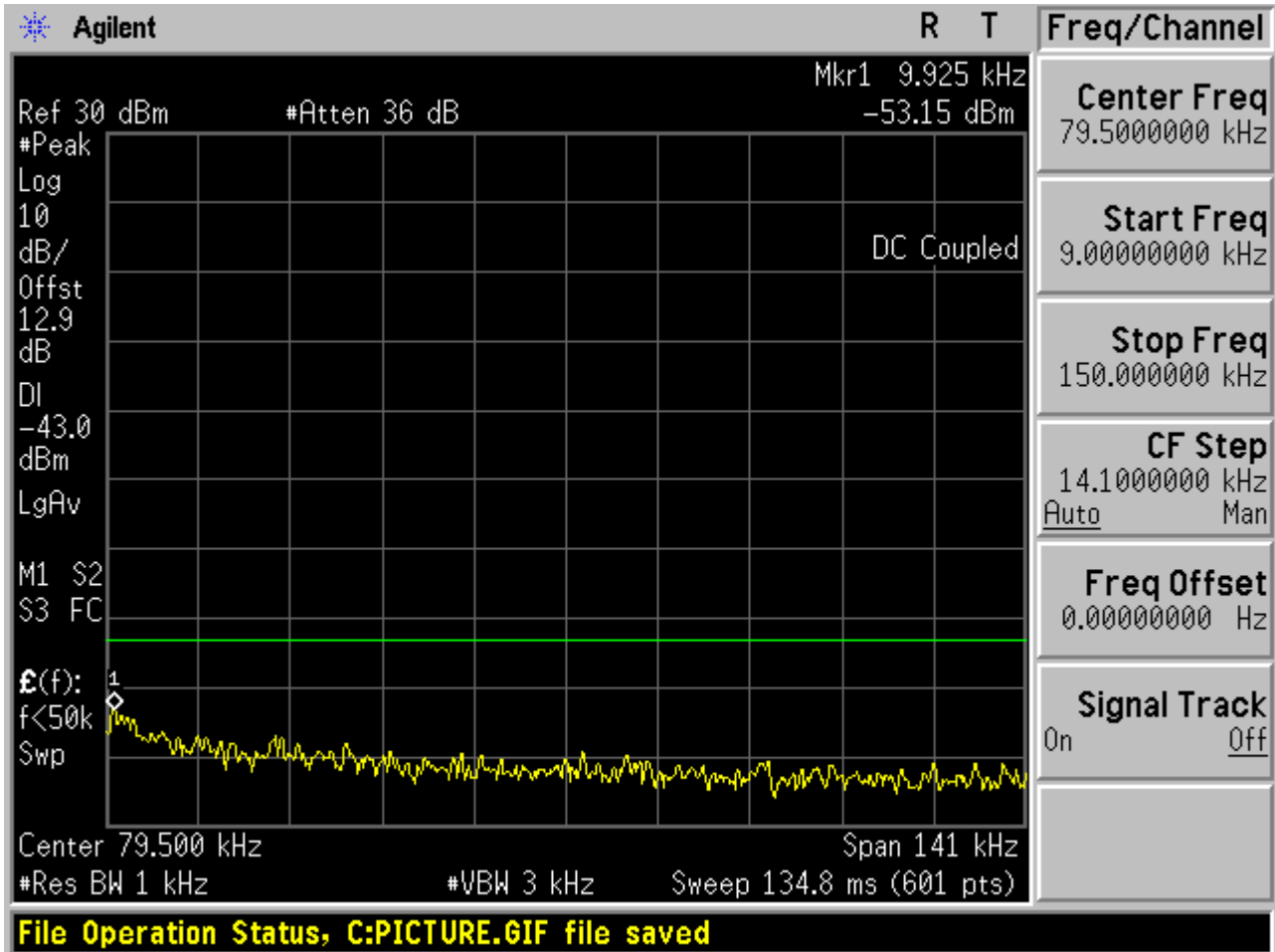


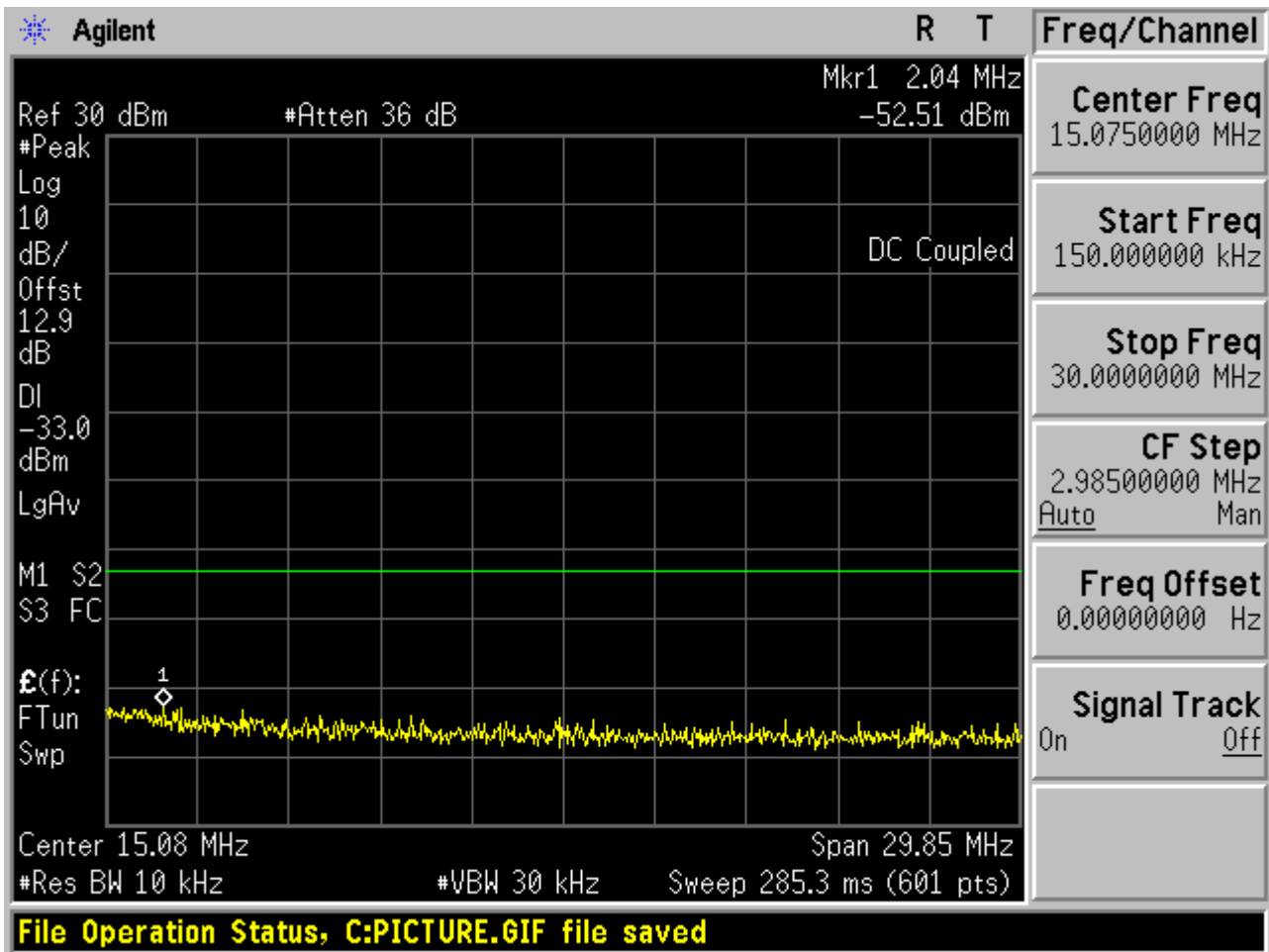


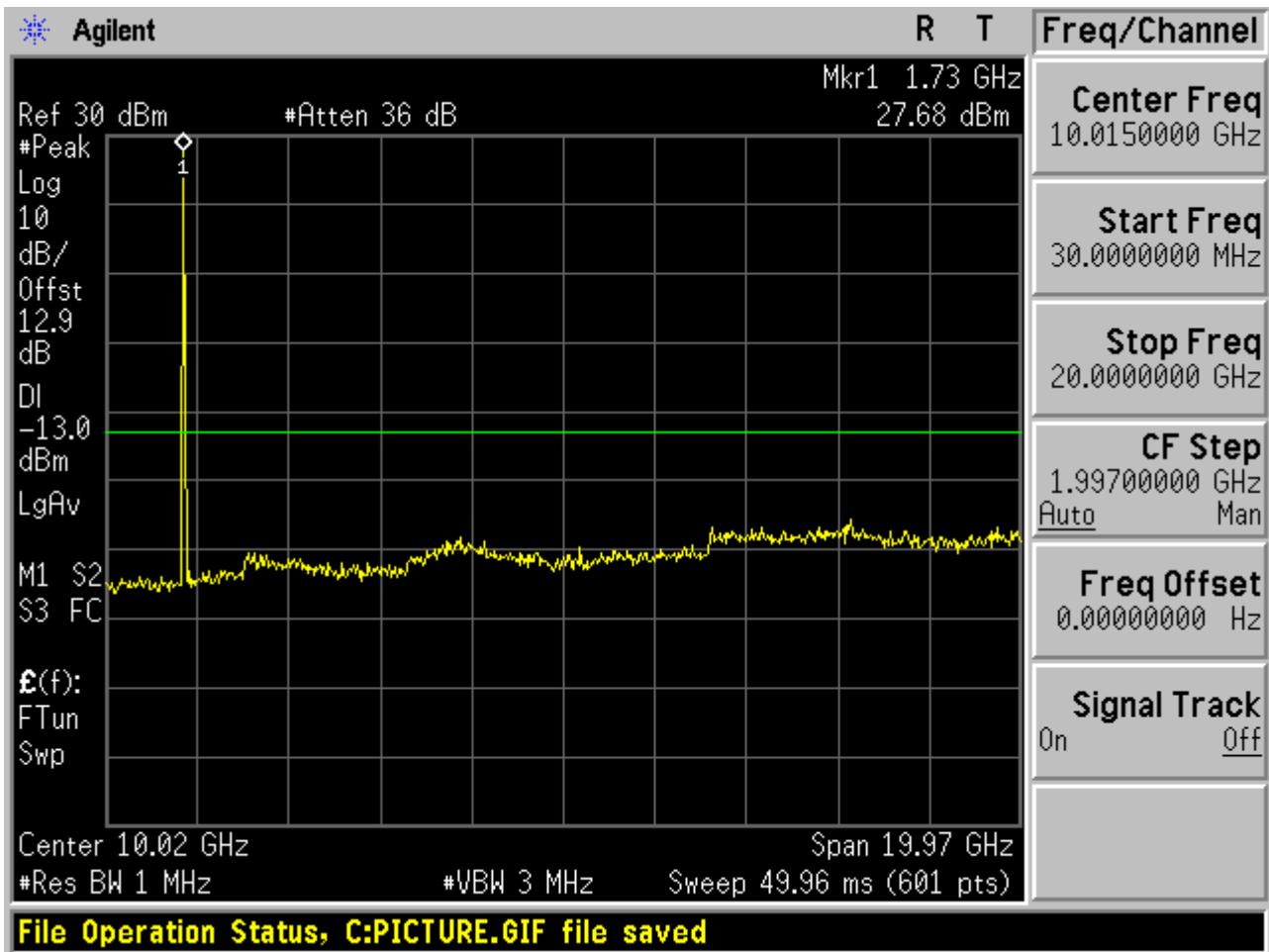


### 2.1.6.3 Channel= T

#### 2.1.6.3.1 QPSK/1RBs /RB #0







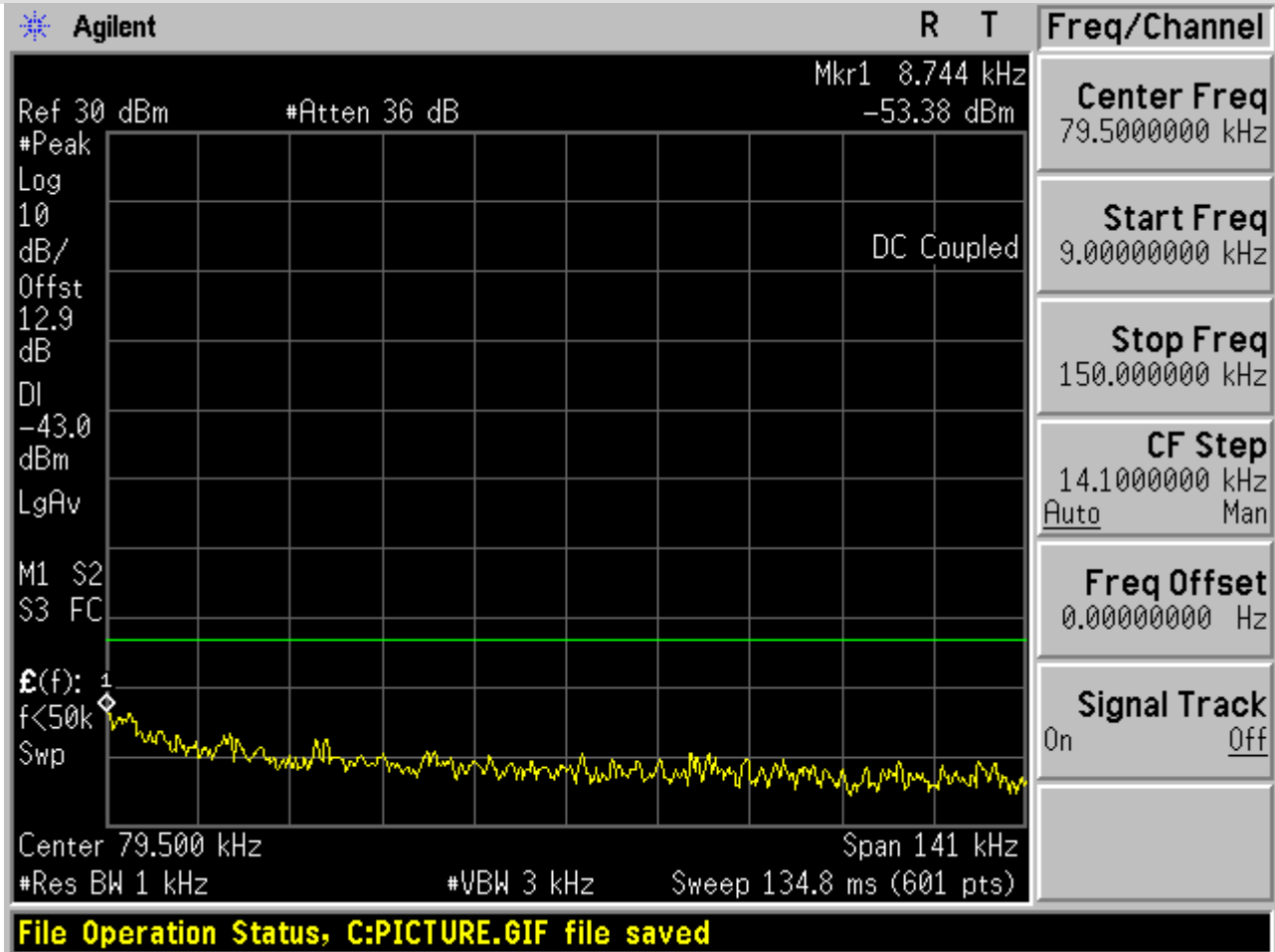


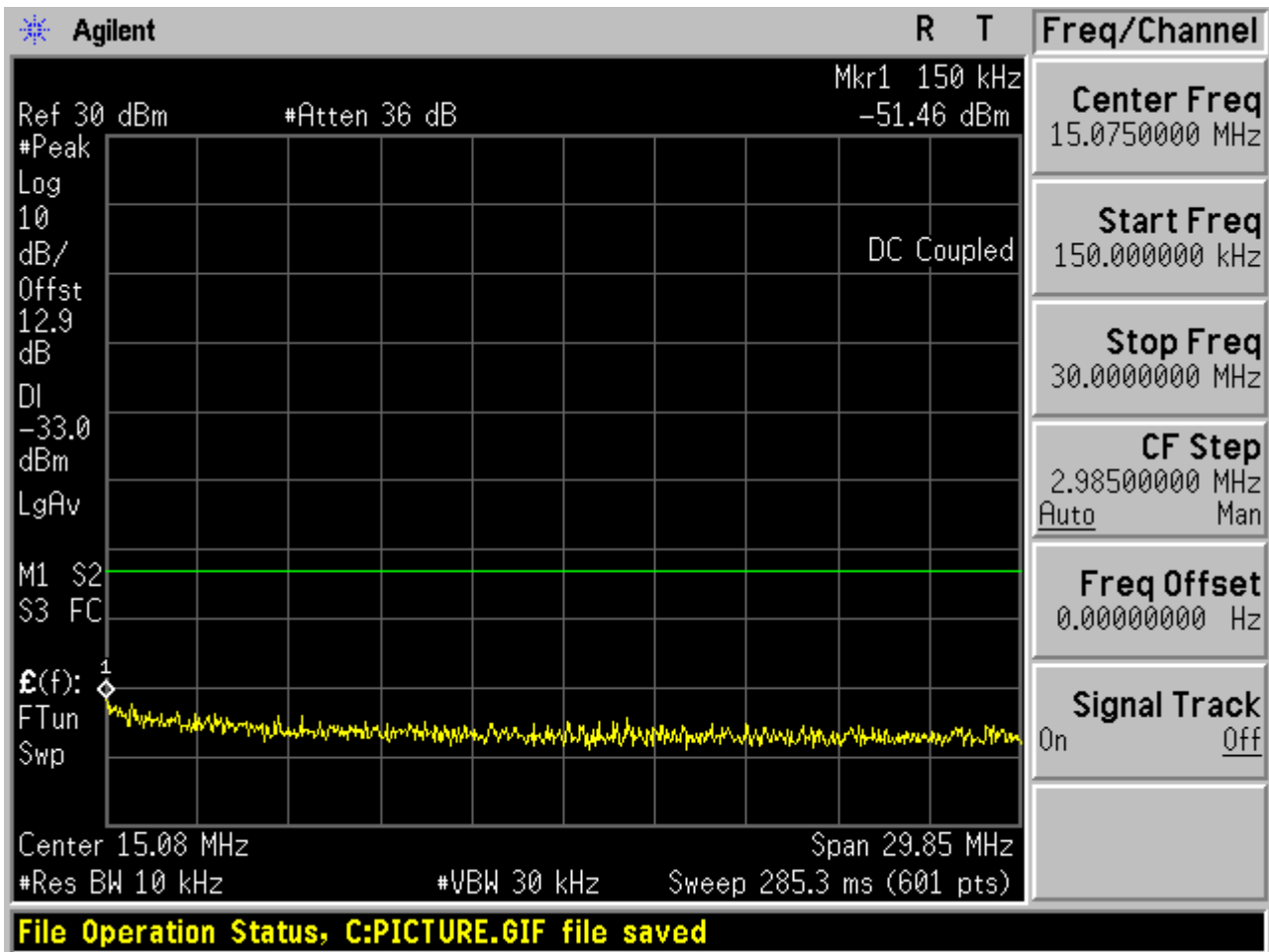
## 2.2 Test Mode=TM5

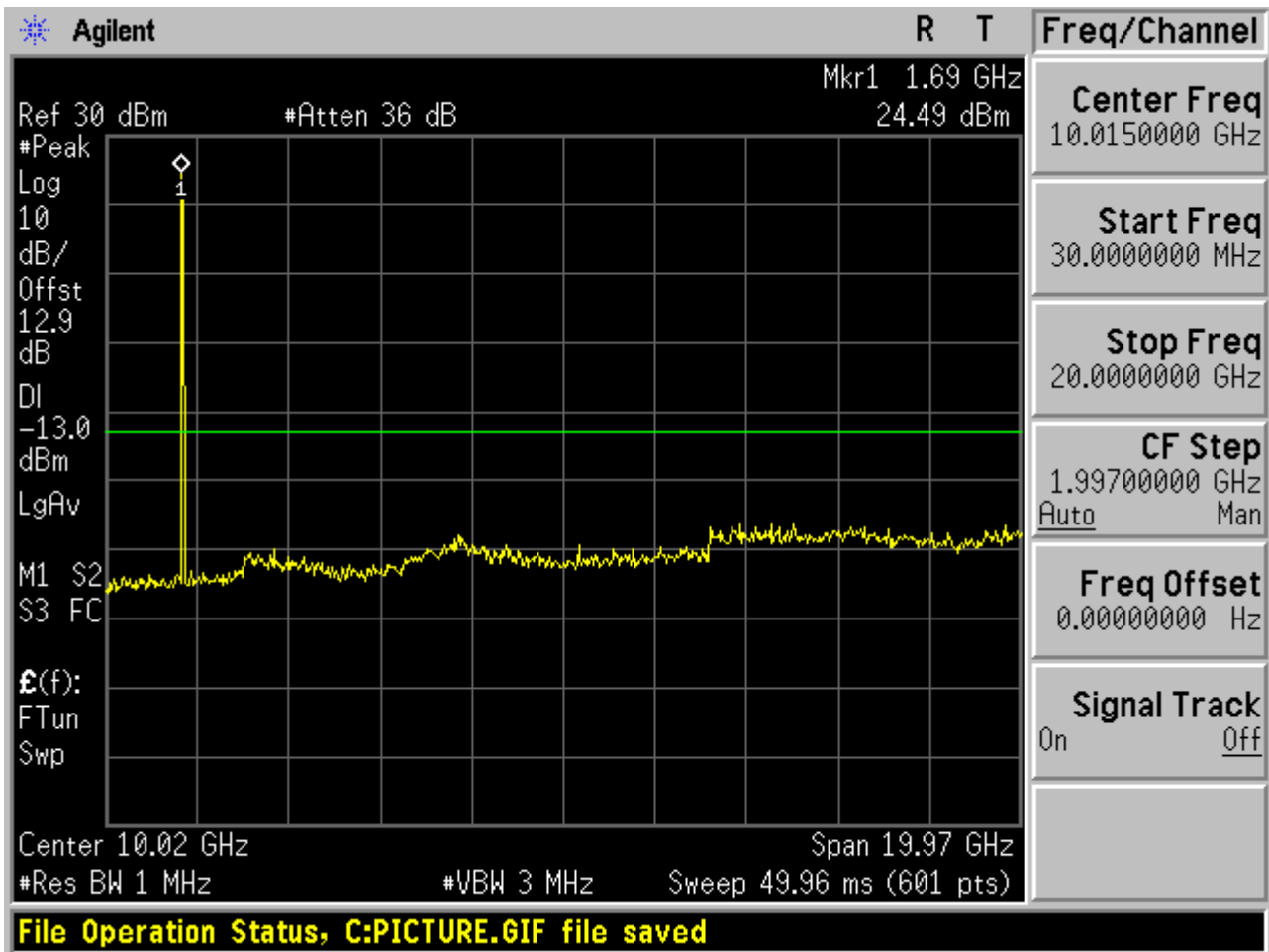
### 2.2.1 Channel Bandwidth = 1.4 MHz

#### 2.2.1.1 Channel= B

##### 2.2.1.1.1 16QAM/1RBs /RB #0





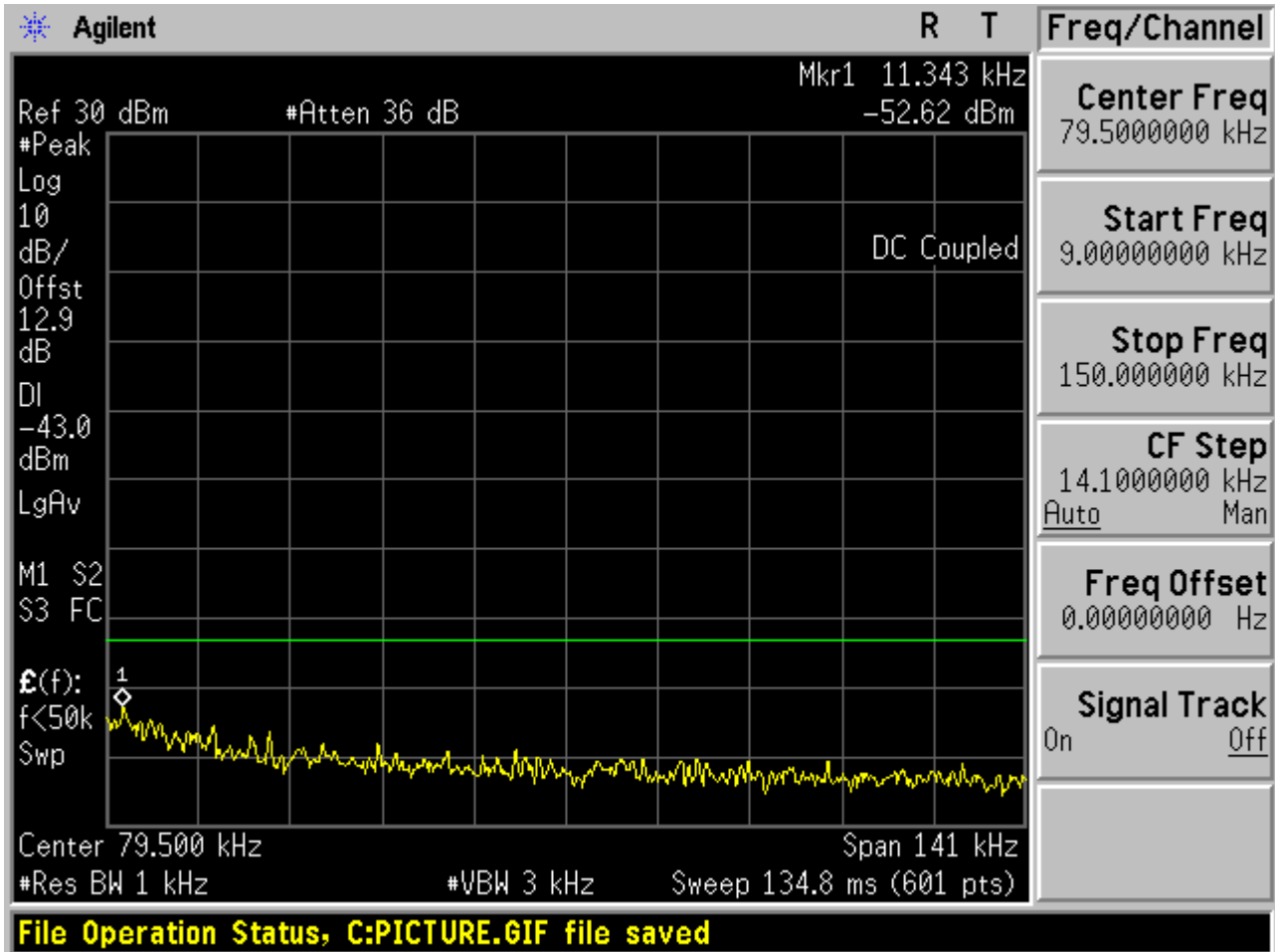


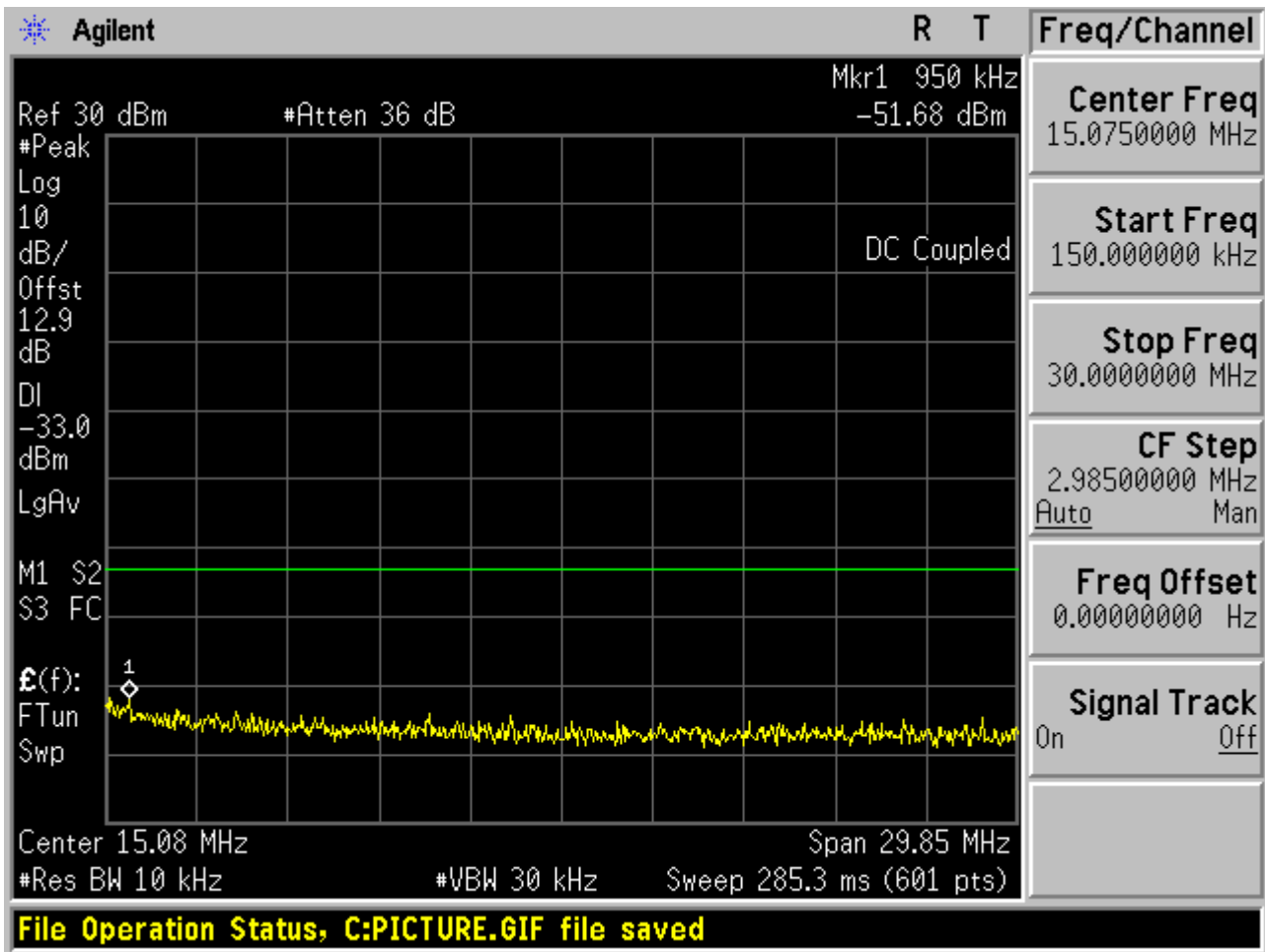


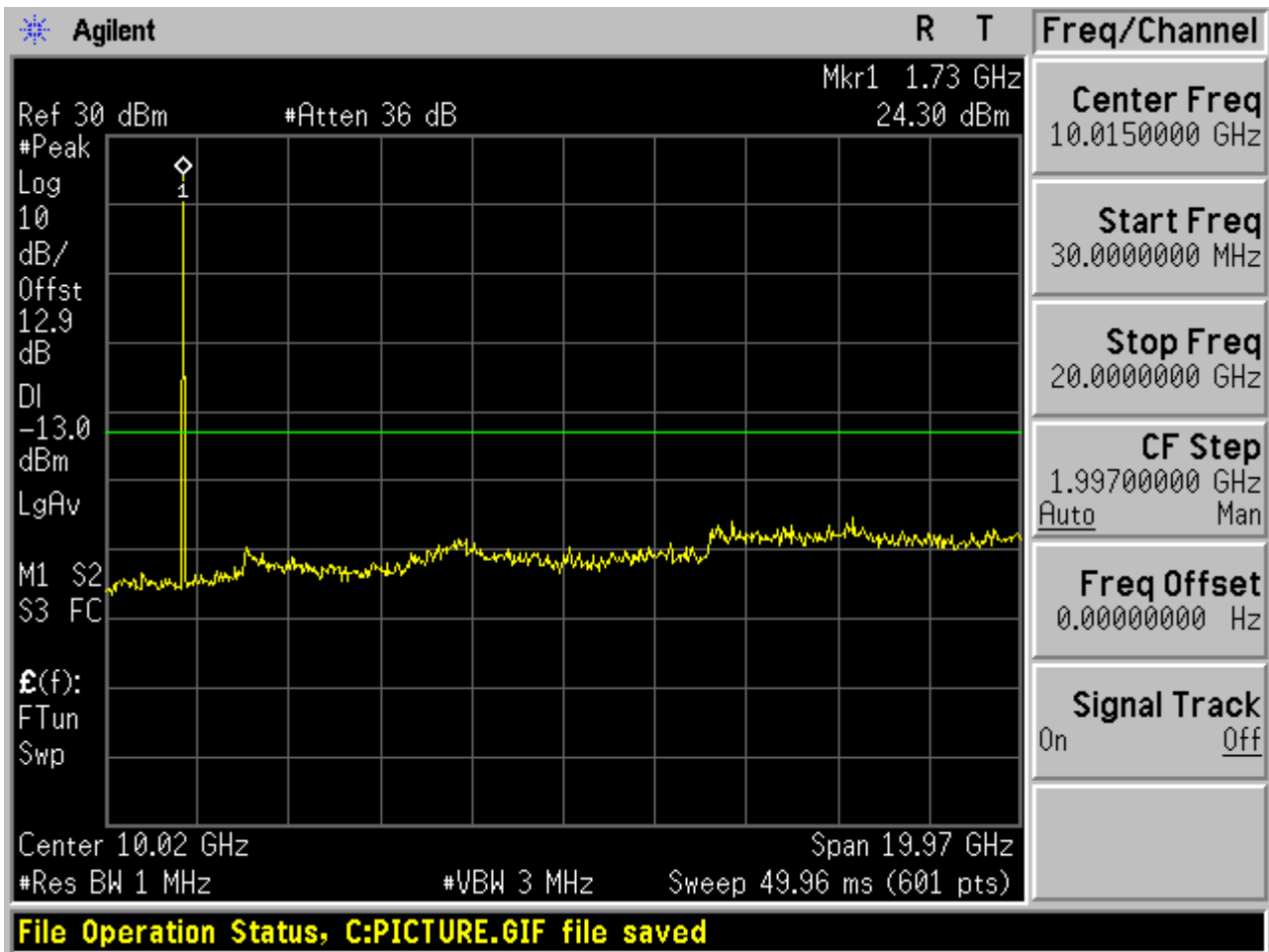


## 2.2.1.2 Channel = M

### 2.2.1.2.1 16QAM/1RBs /RB #0



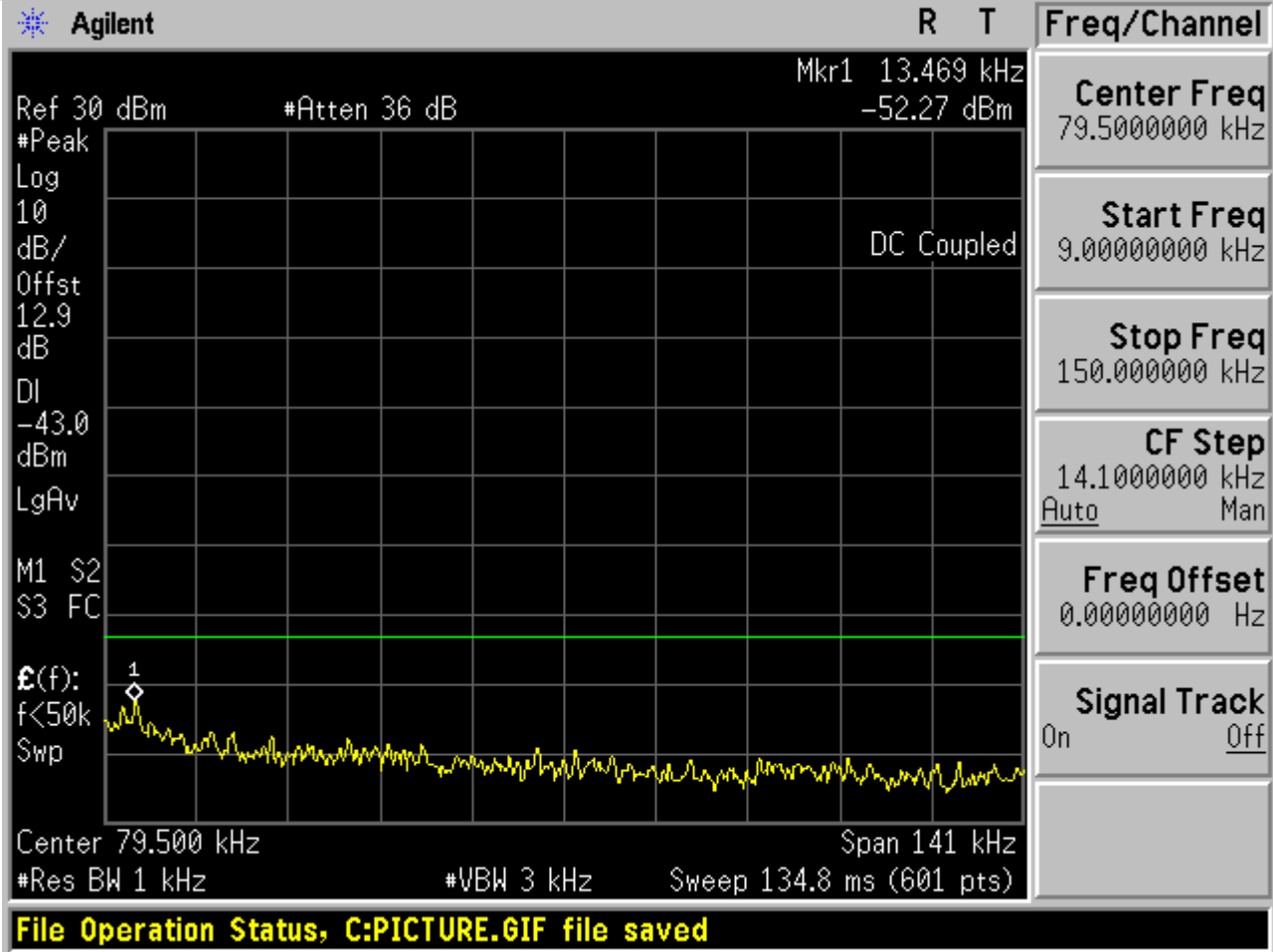


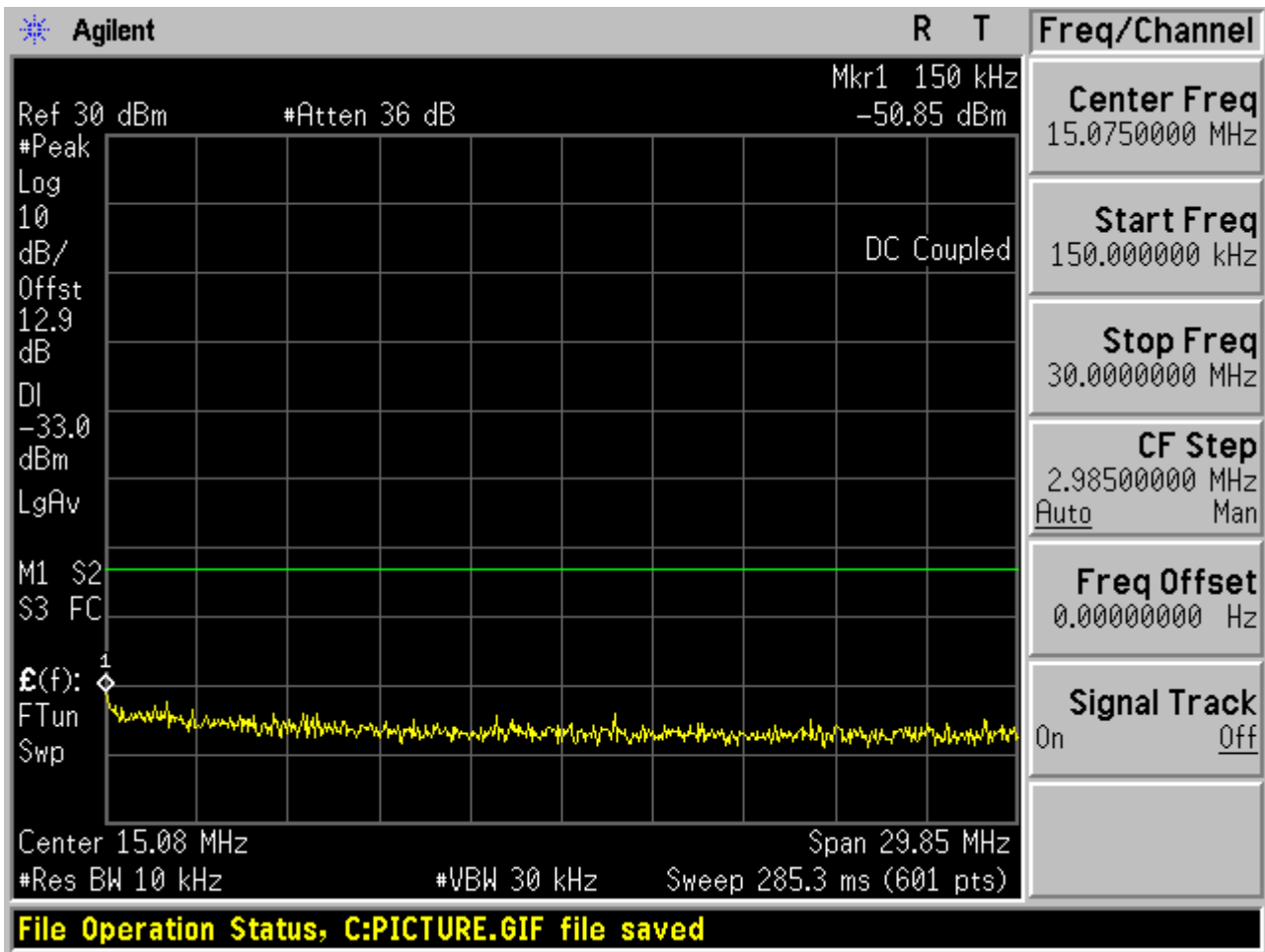


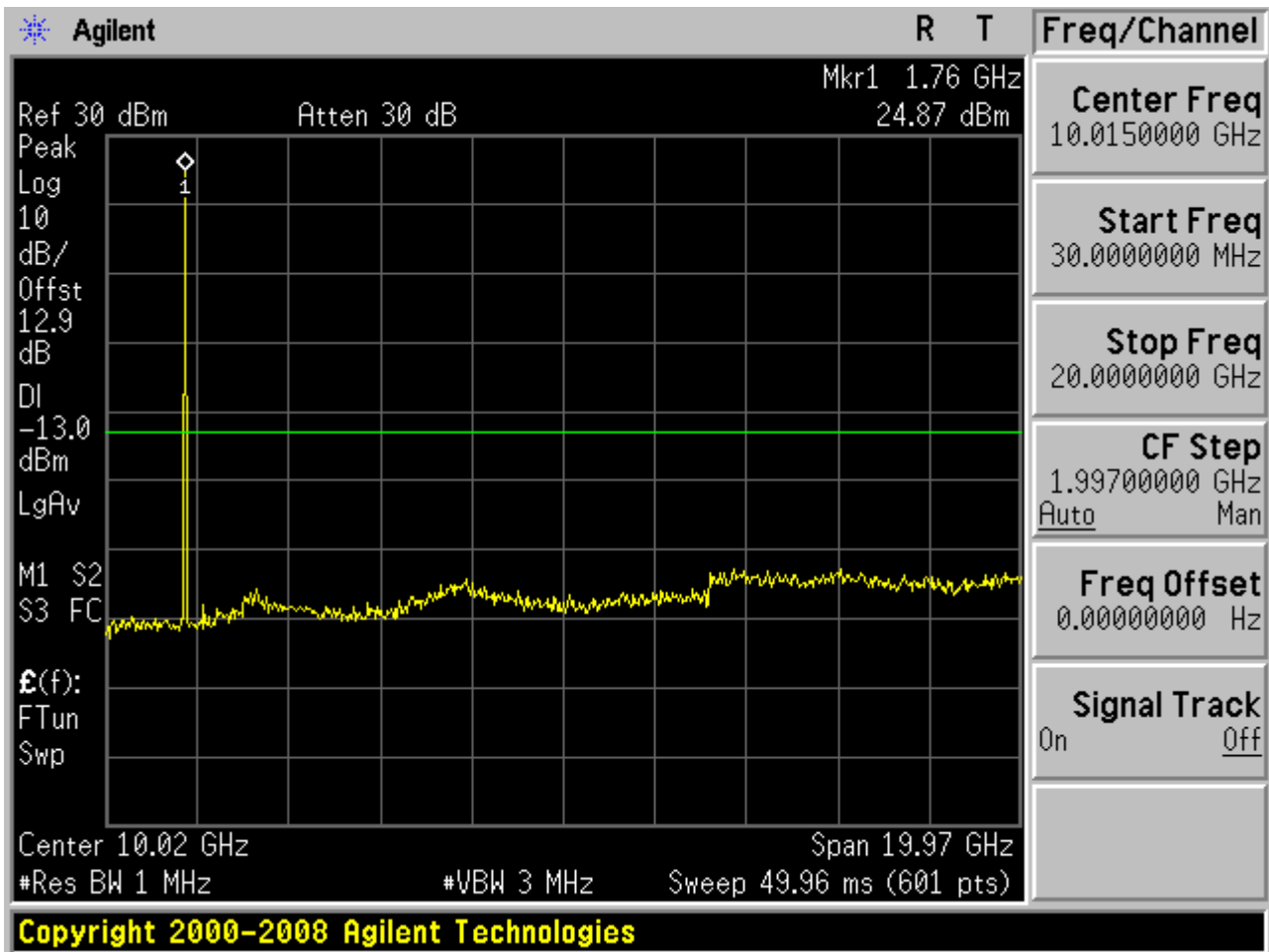


### 2.2.1.3 Channel= T

#### 2.2.1.3.1 16QAM/1RBs /RB #0





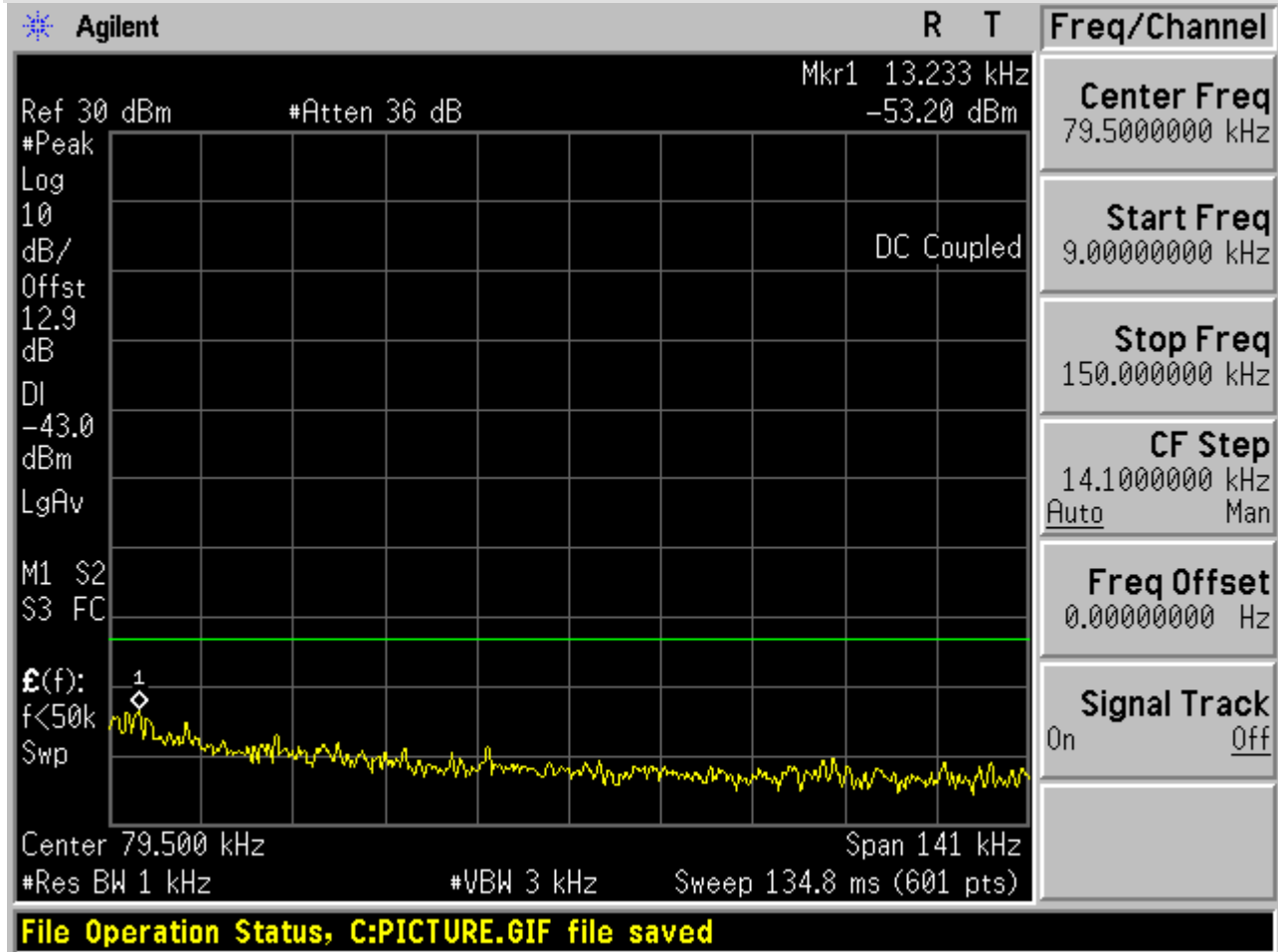


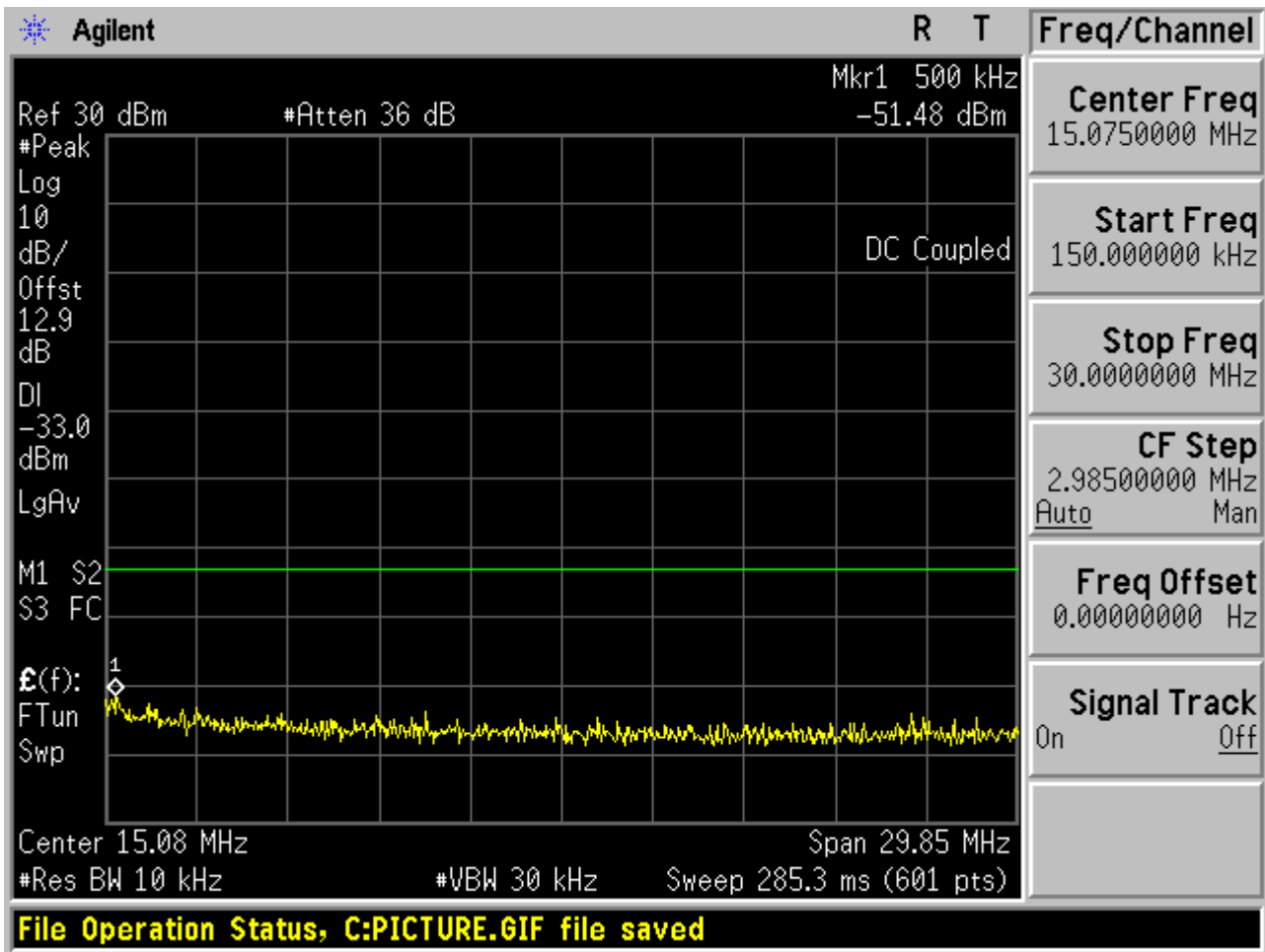


## 2.2.2 Channel Bandwidth = 3 MHz

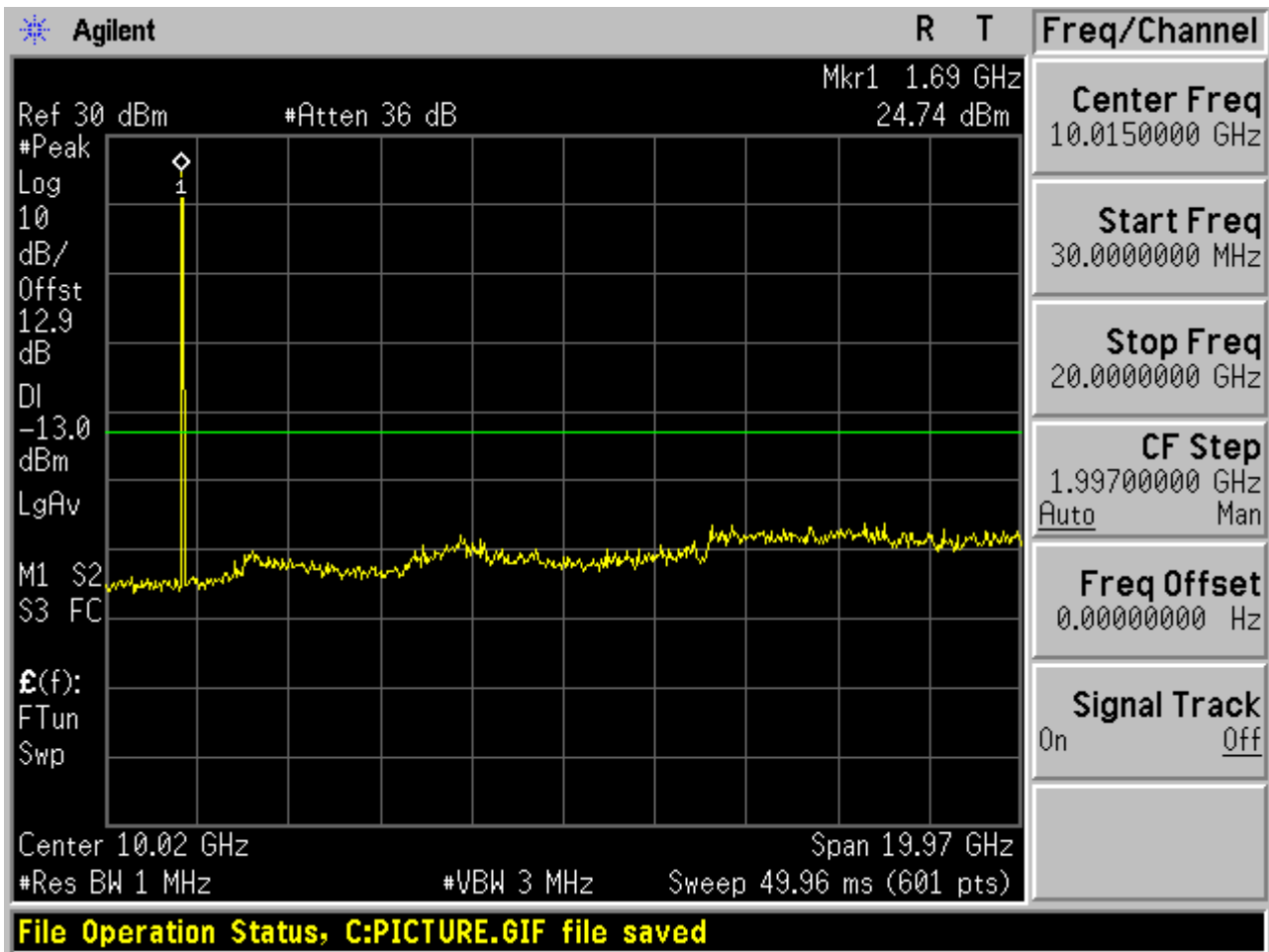
### 2.2.2.1 Channel= B

#### 2.2.2.1.1 16QAM/1RBs /RB #0





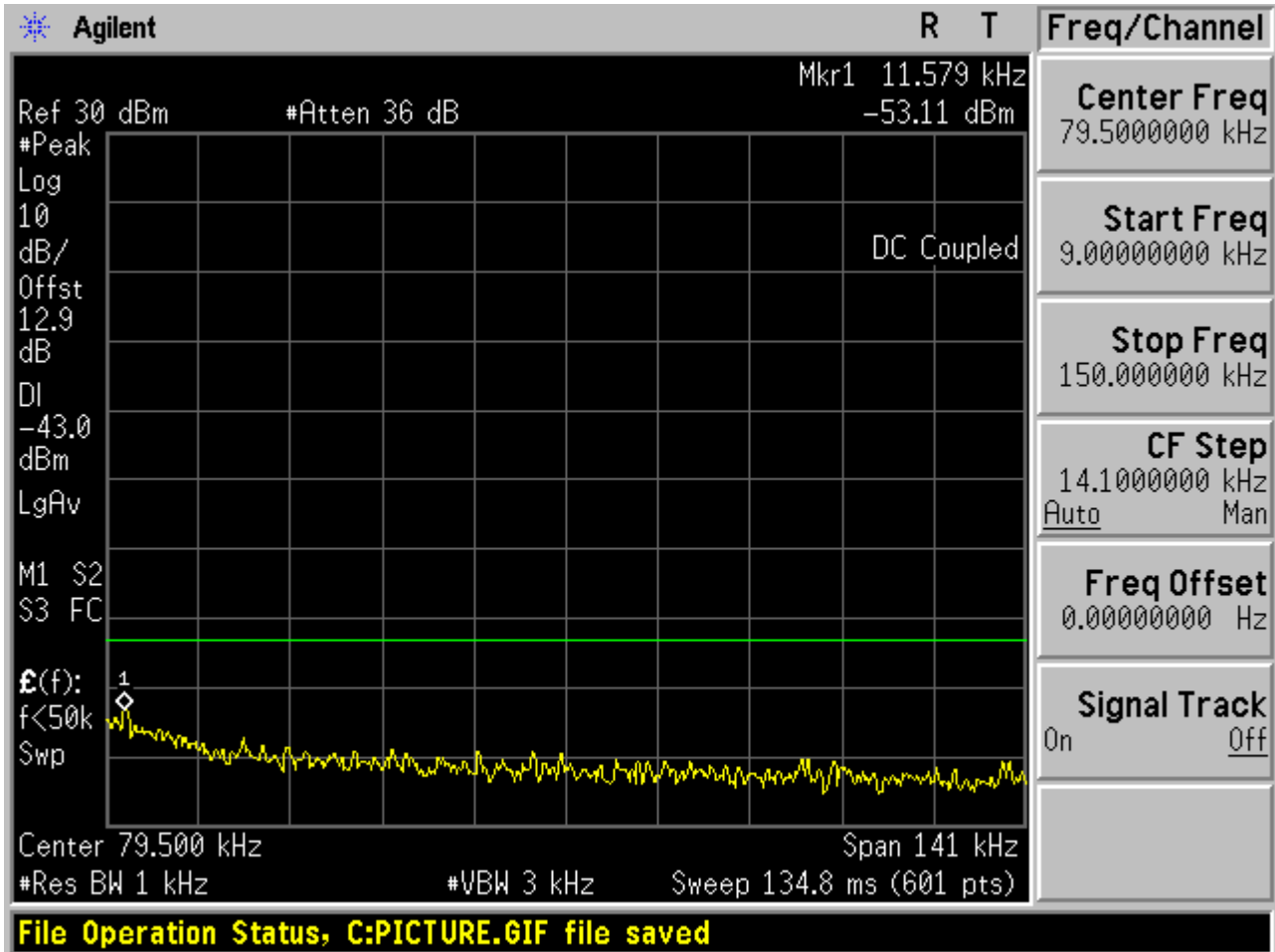


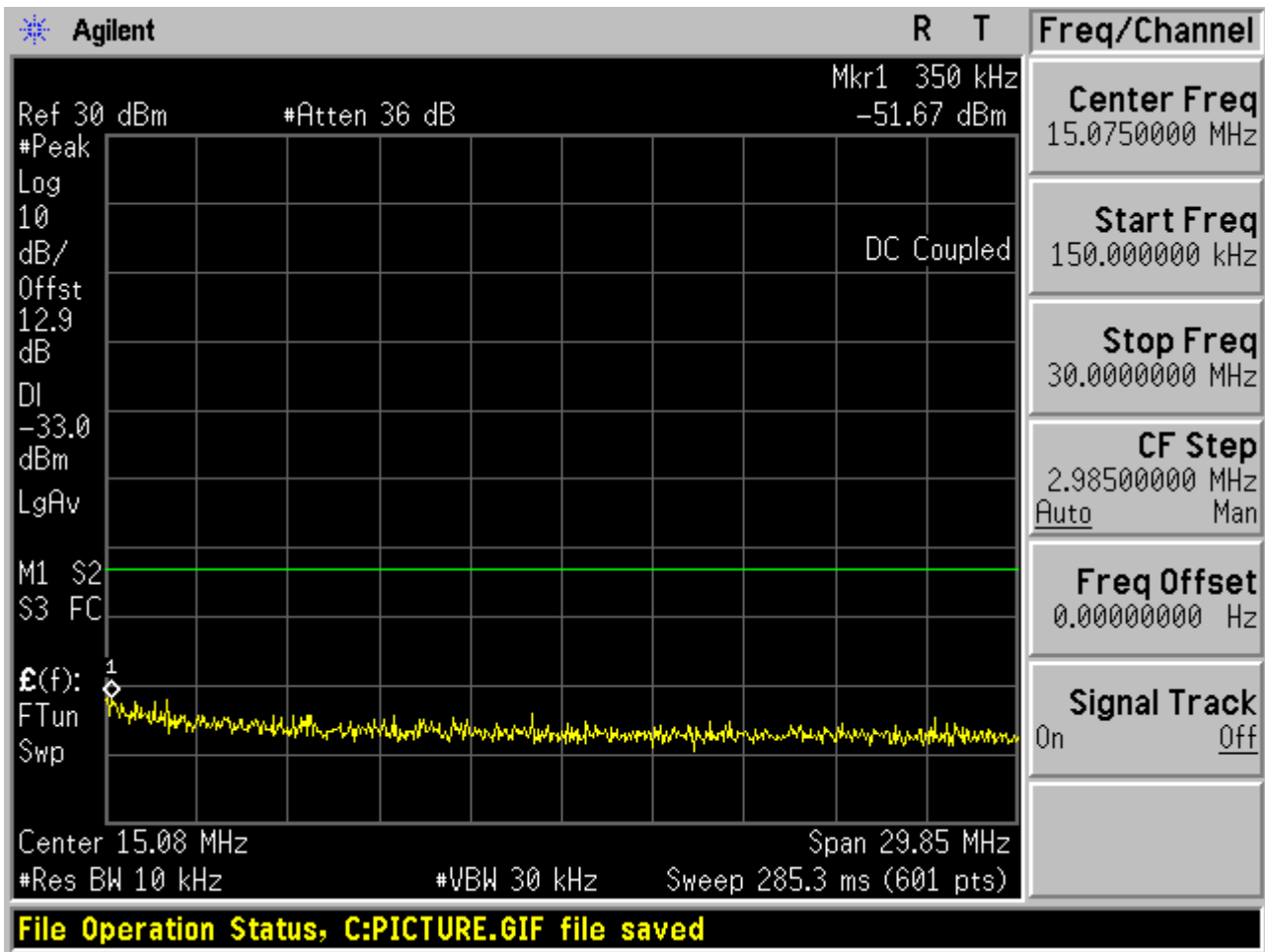


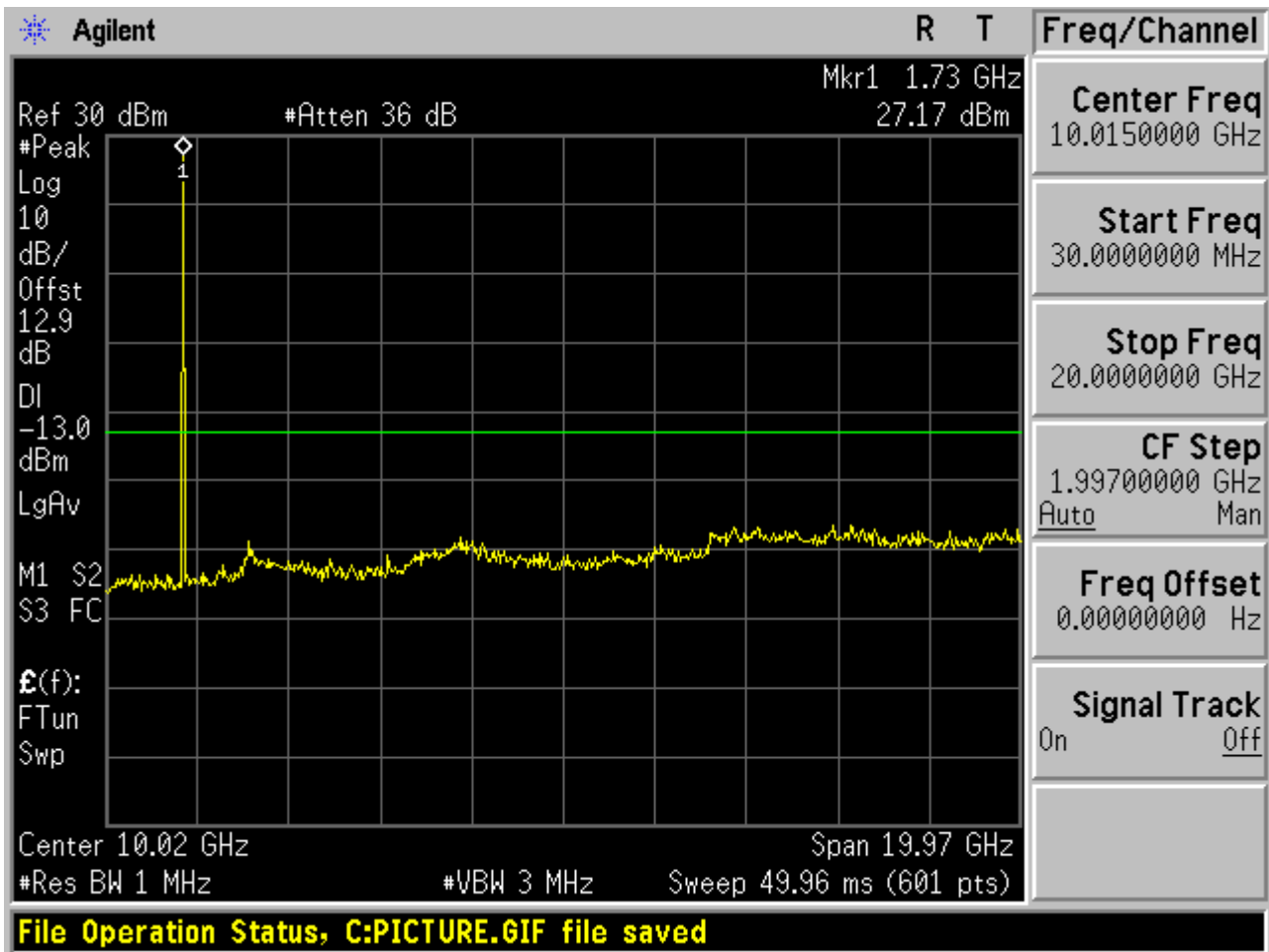


## 2.2.2.2 Channel = M

### 2.2.2.2.1 16QAM/1RBs /RB #0



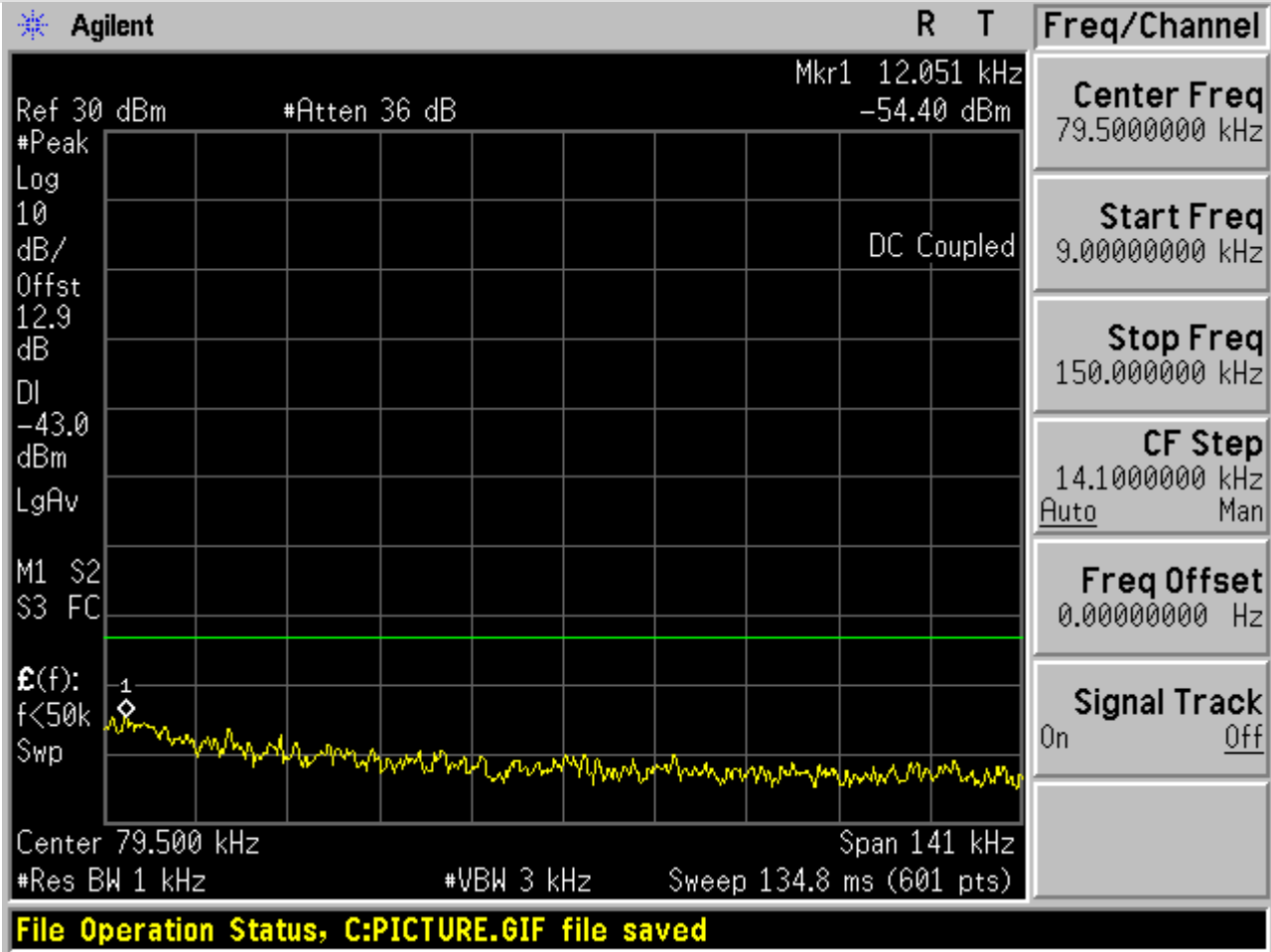


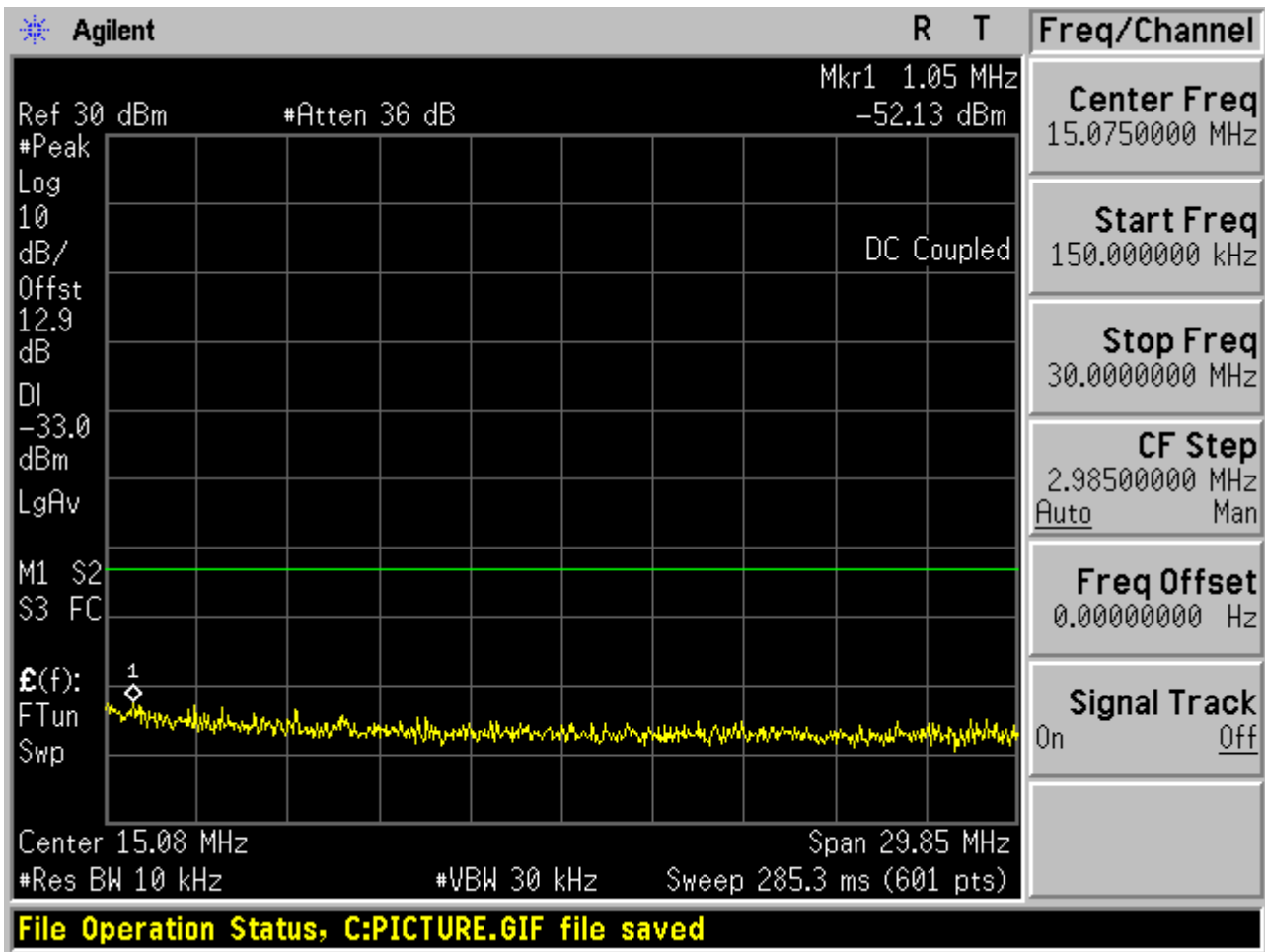


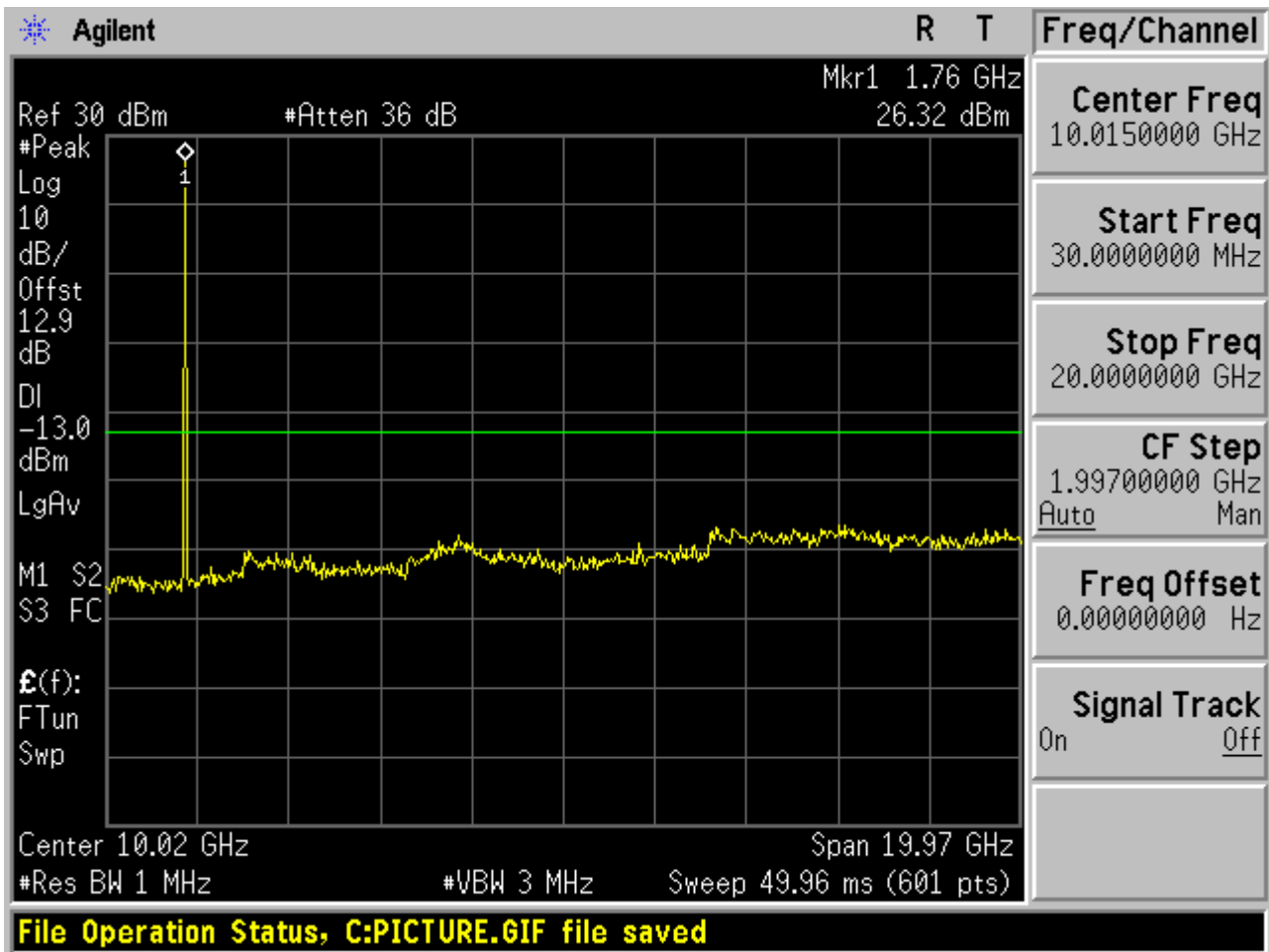


### 2.2.2.3 Channel= T

#### 2.2.2.3.1 16QAM/1RBs /RB #0





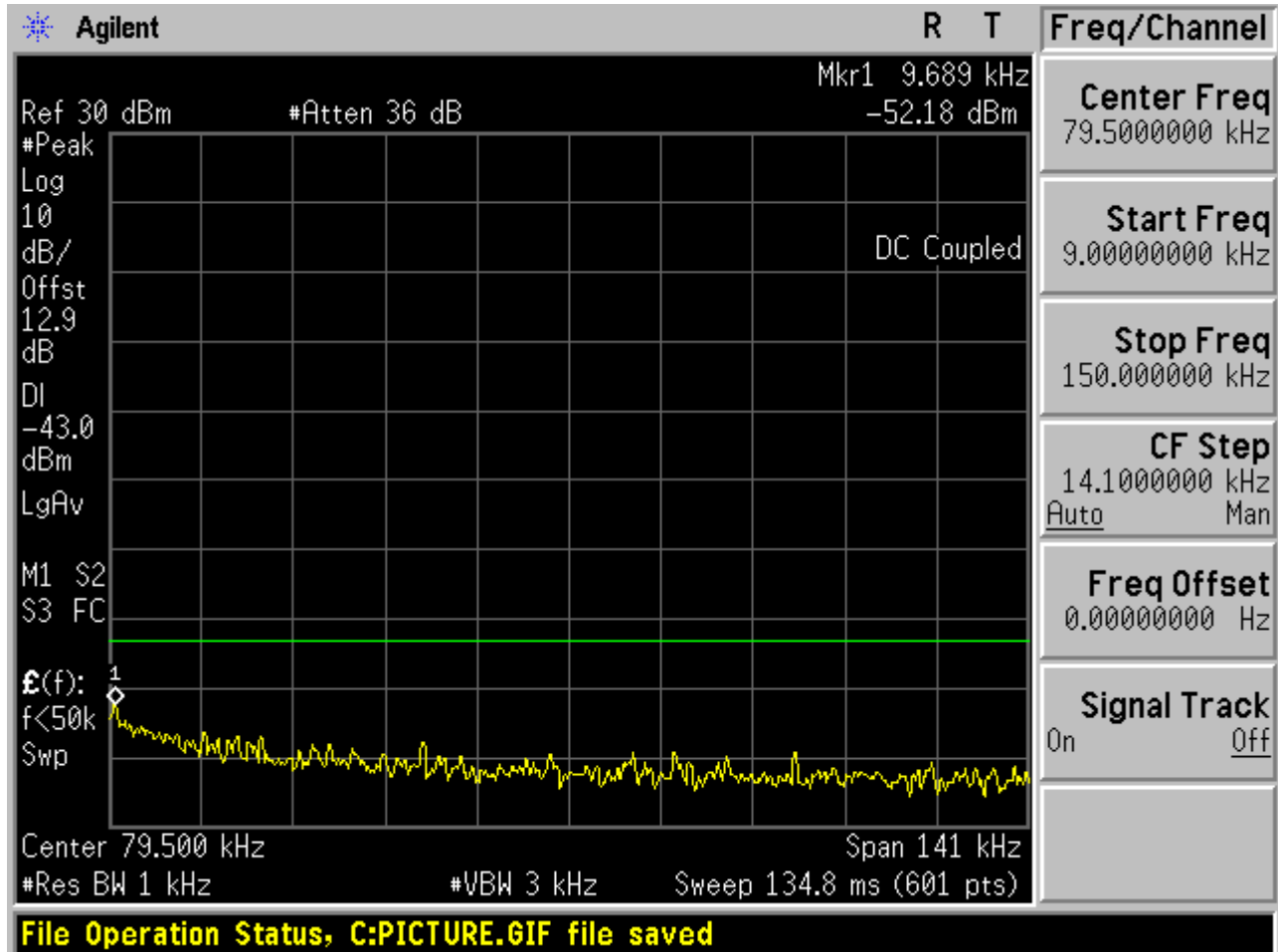




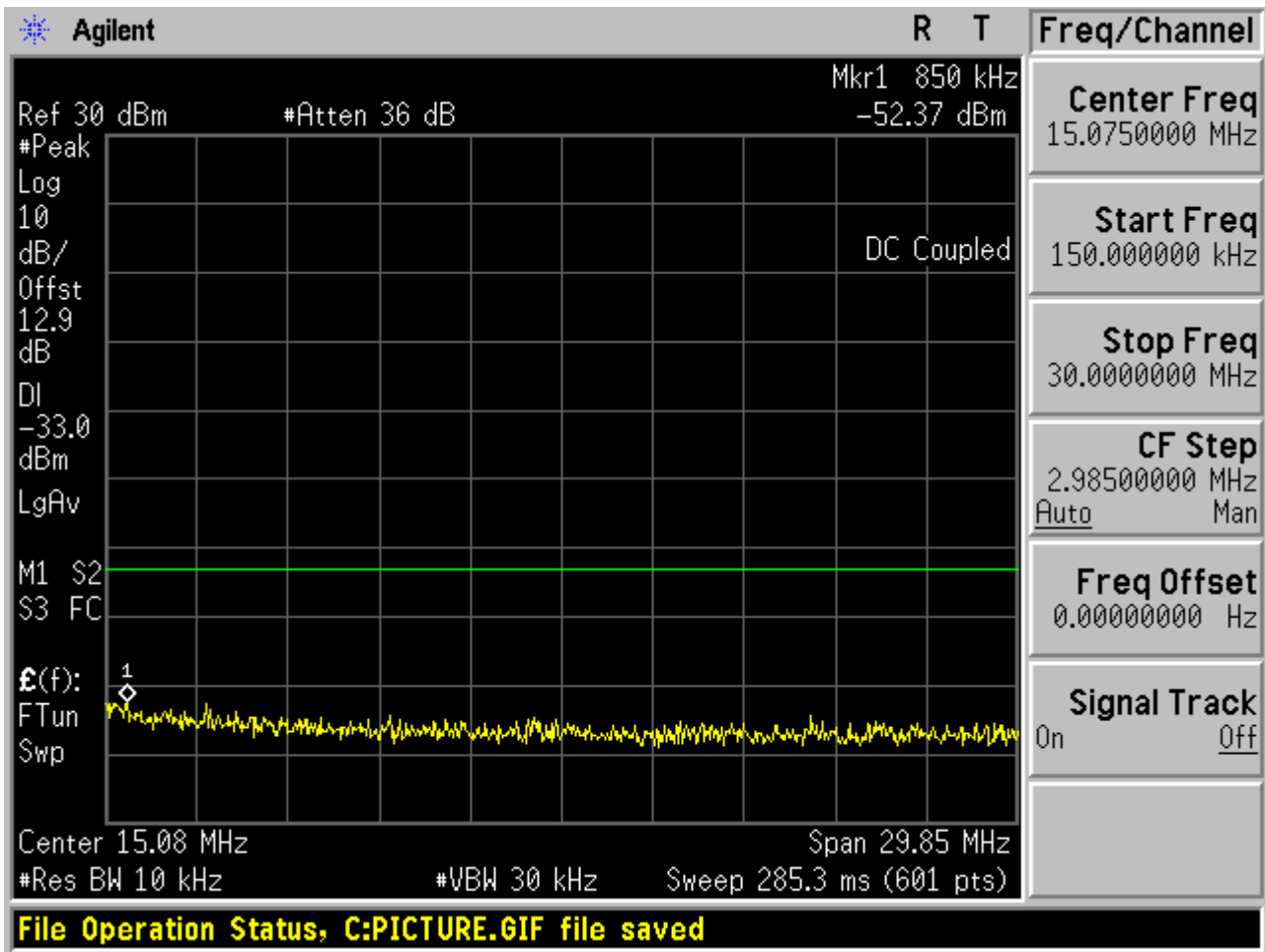
## 2.2.3 Channel Bandwidth = 5 MHz

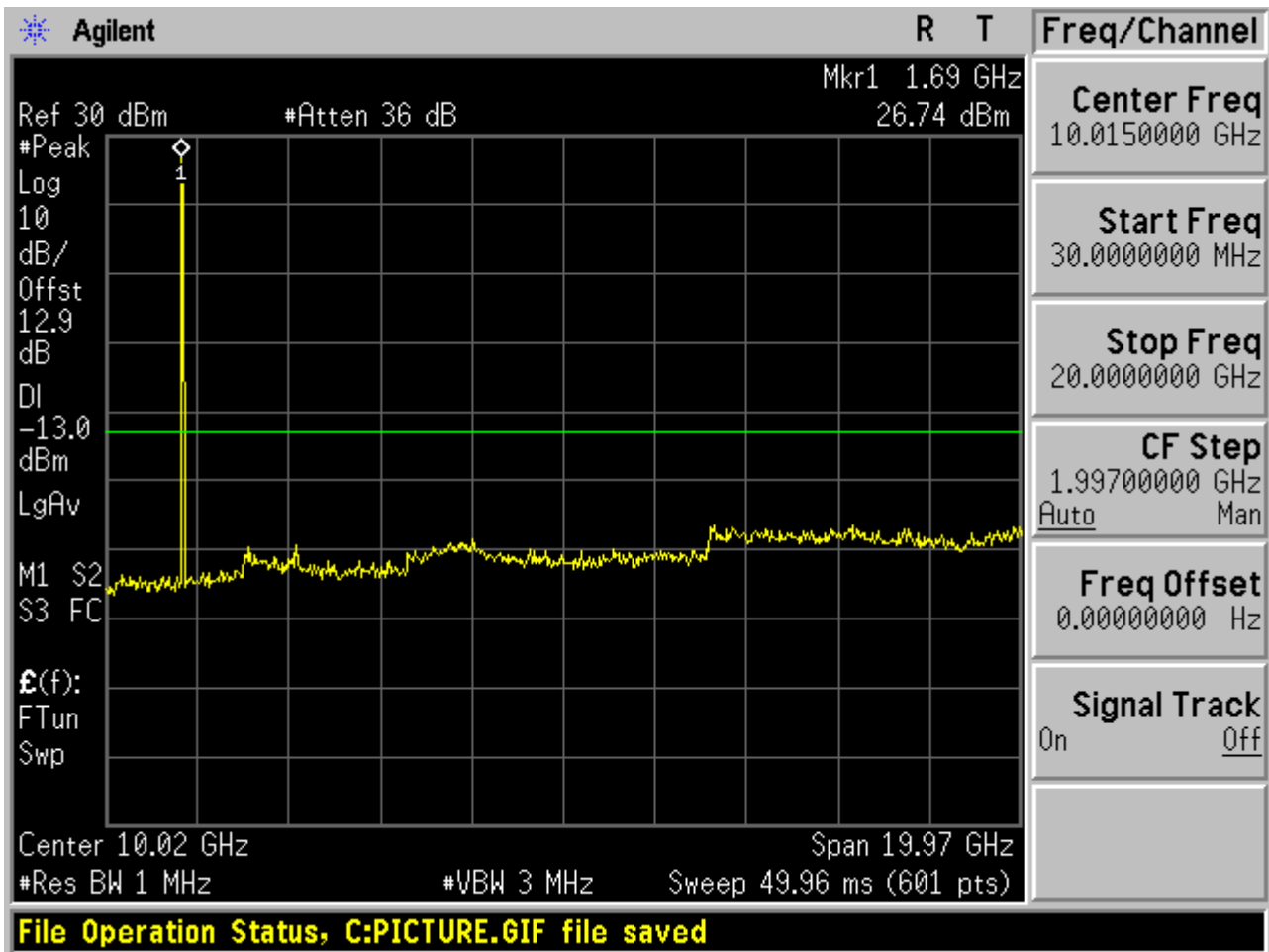
### 2.2.3.1 Channel= B

#### 2.2.3.1.1 16QAM/1RBs /RB #0





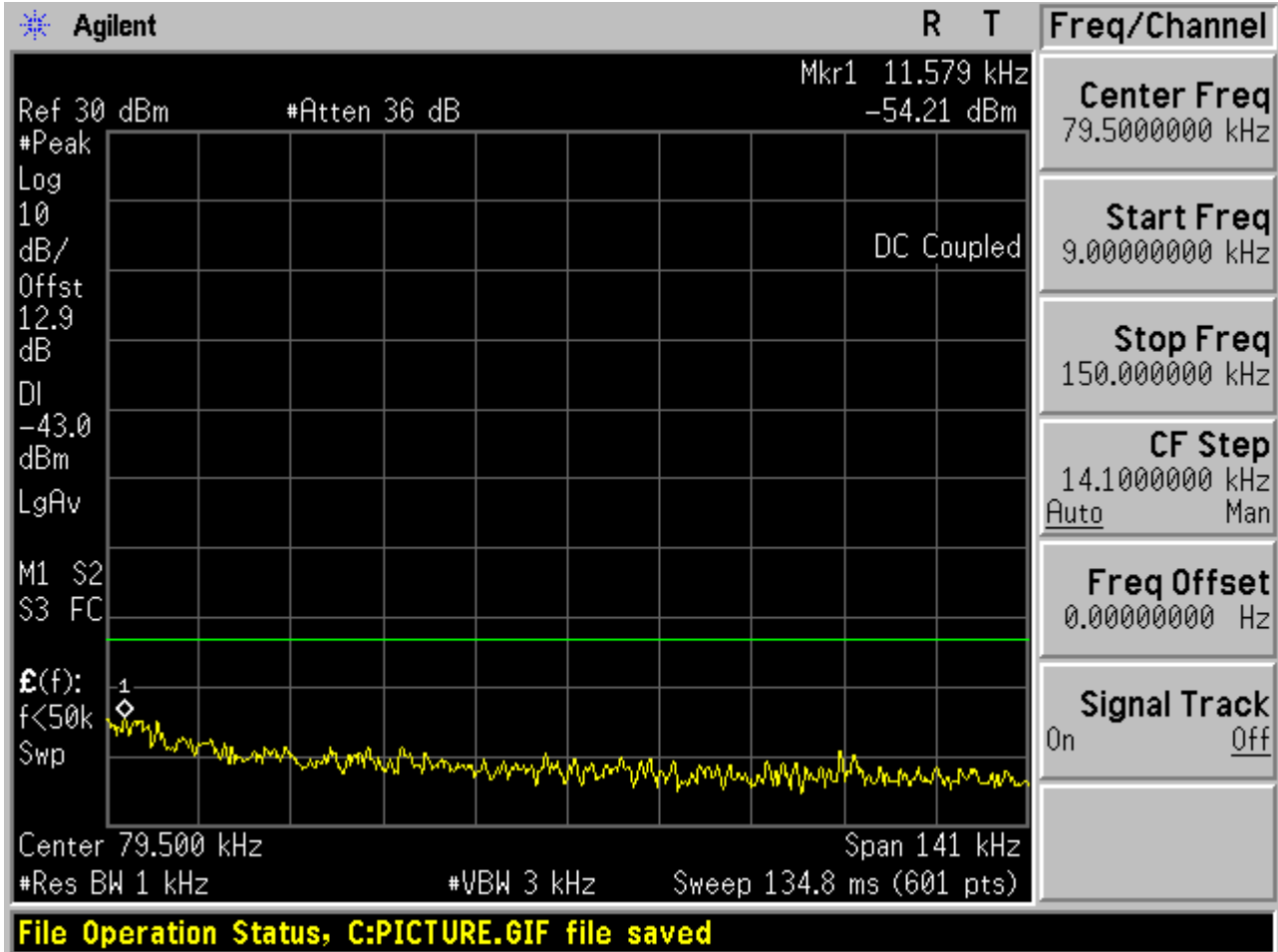


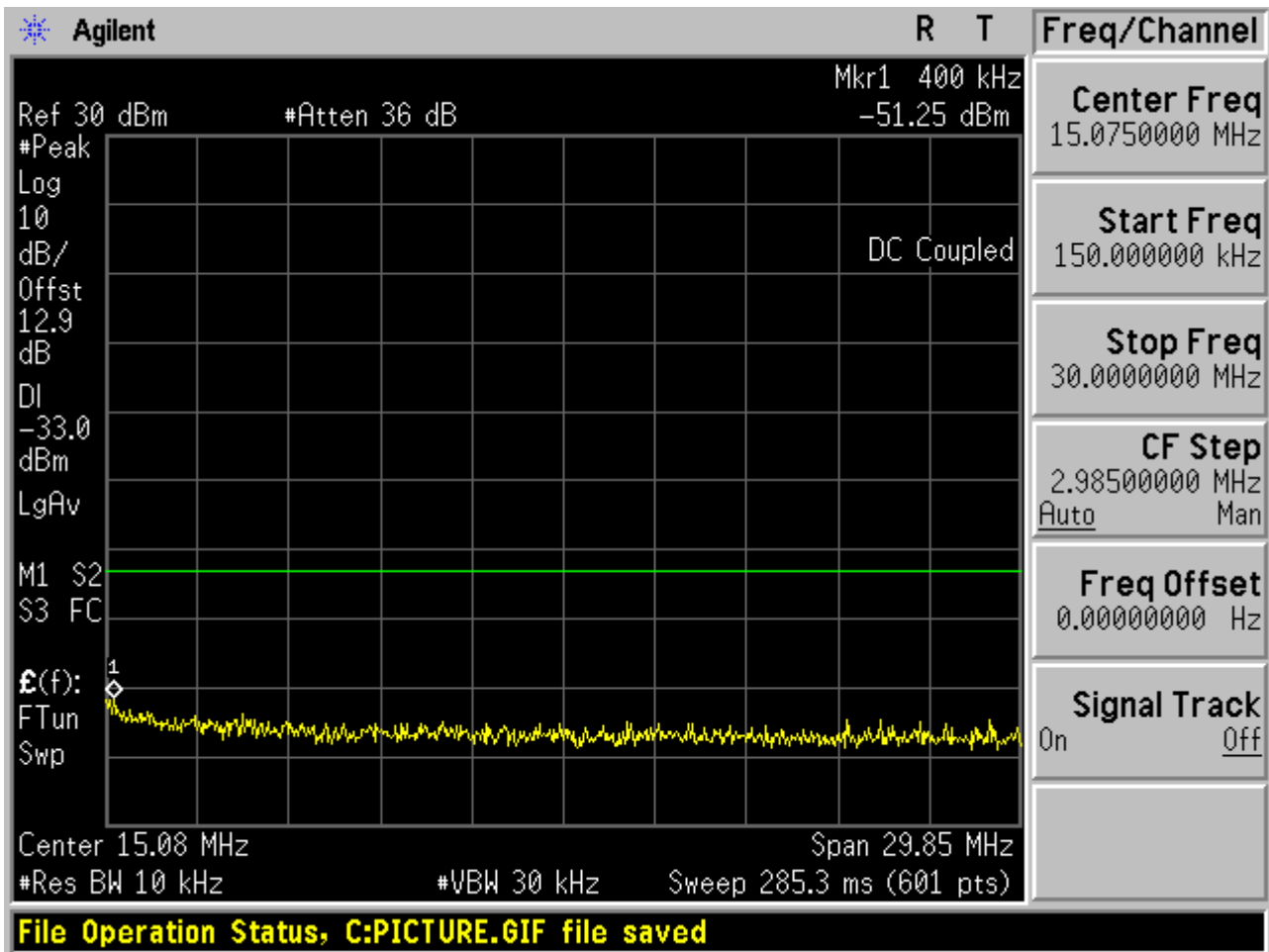


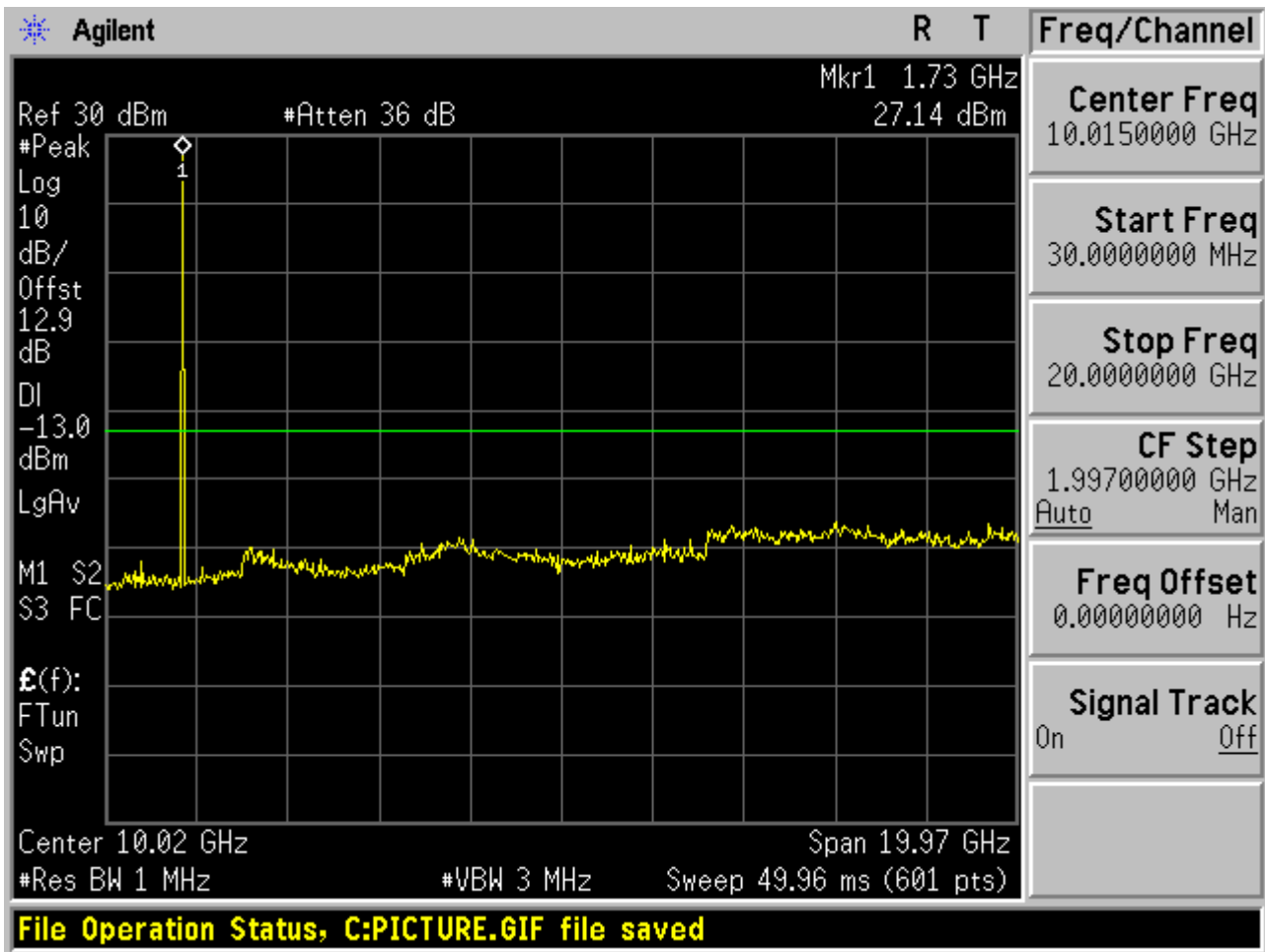


## 2.2.3.2 Channel = M

### 2.2.3.2.1 16QAM/1RBs /RB #0



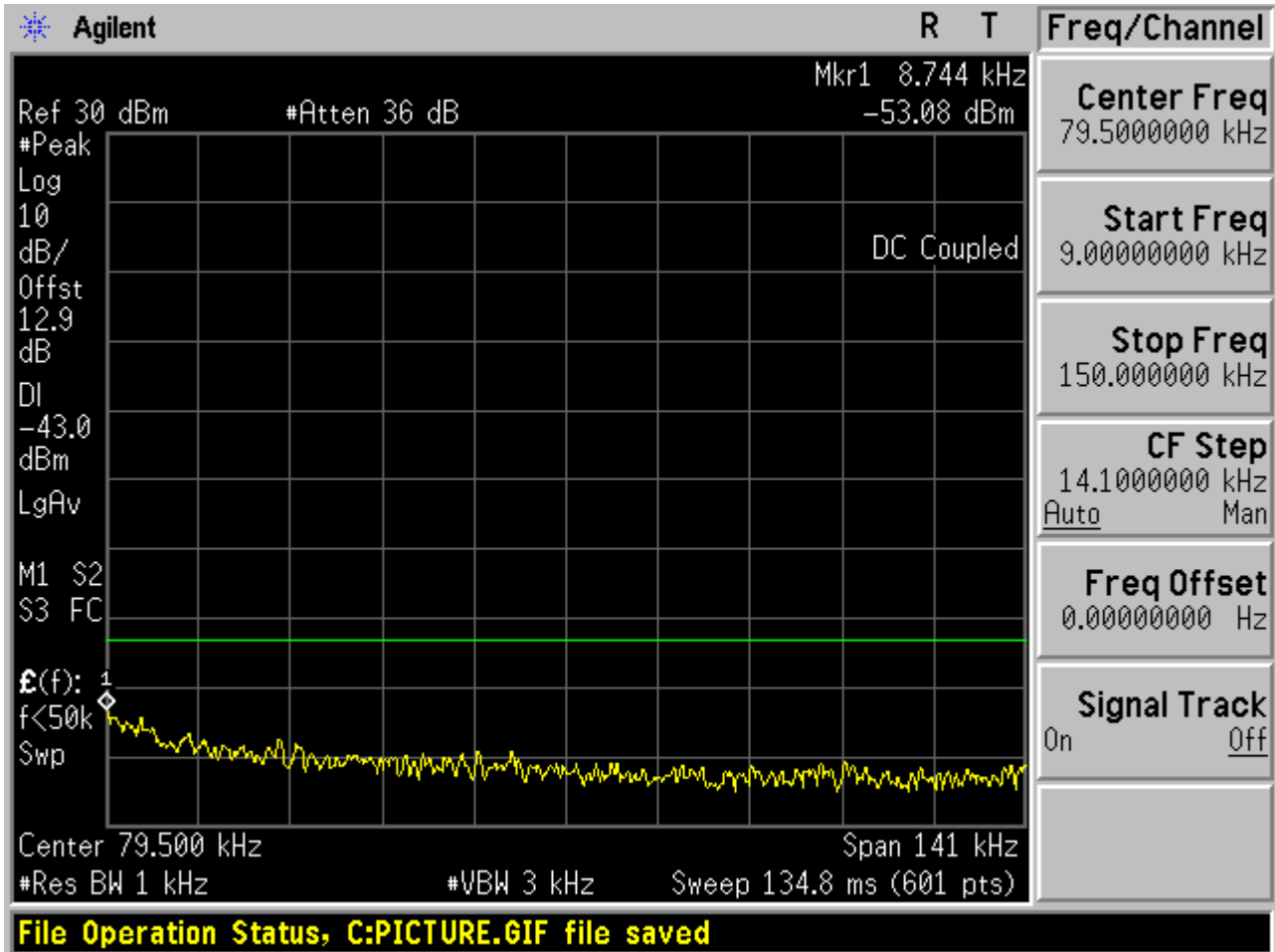


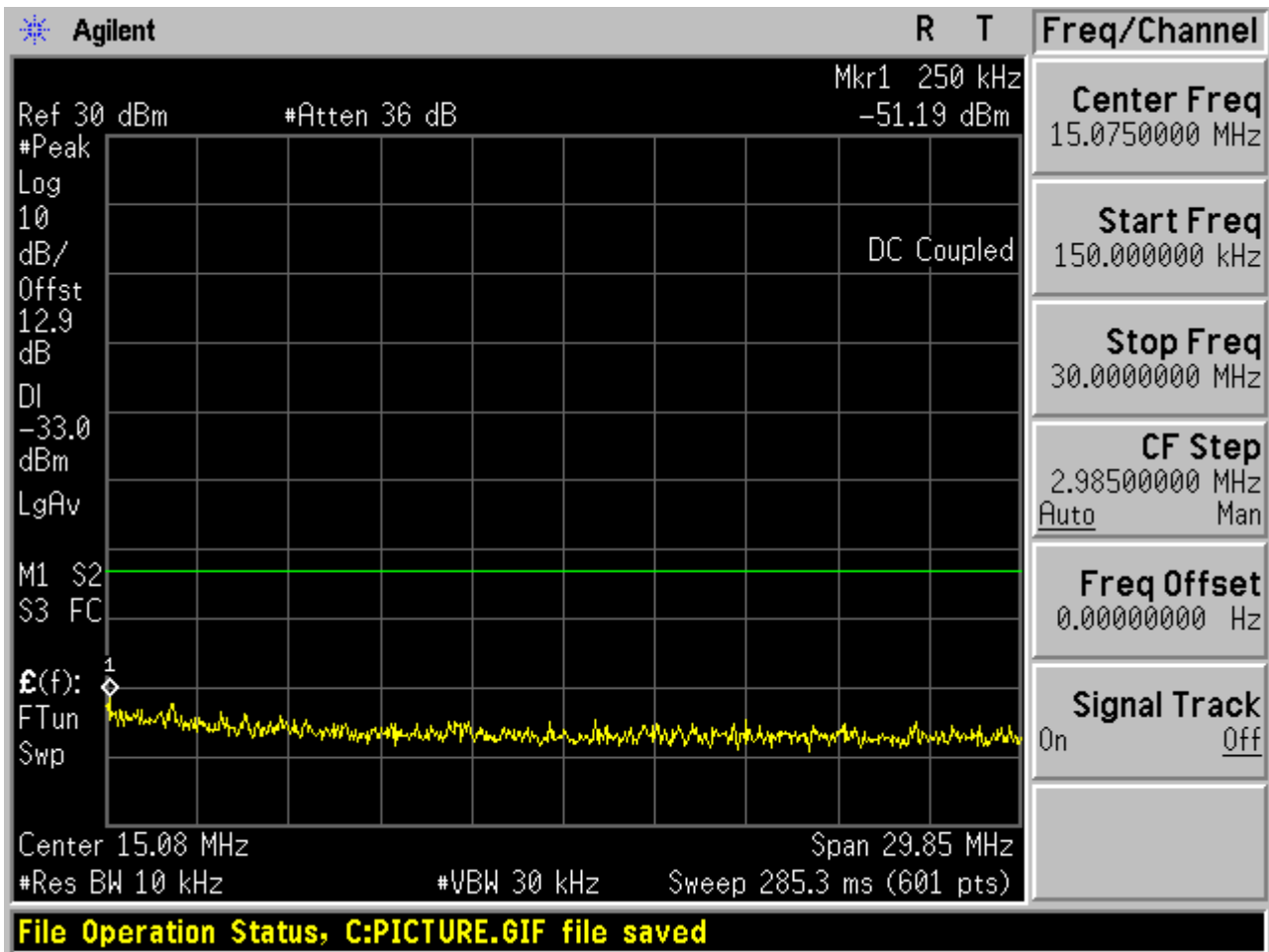


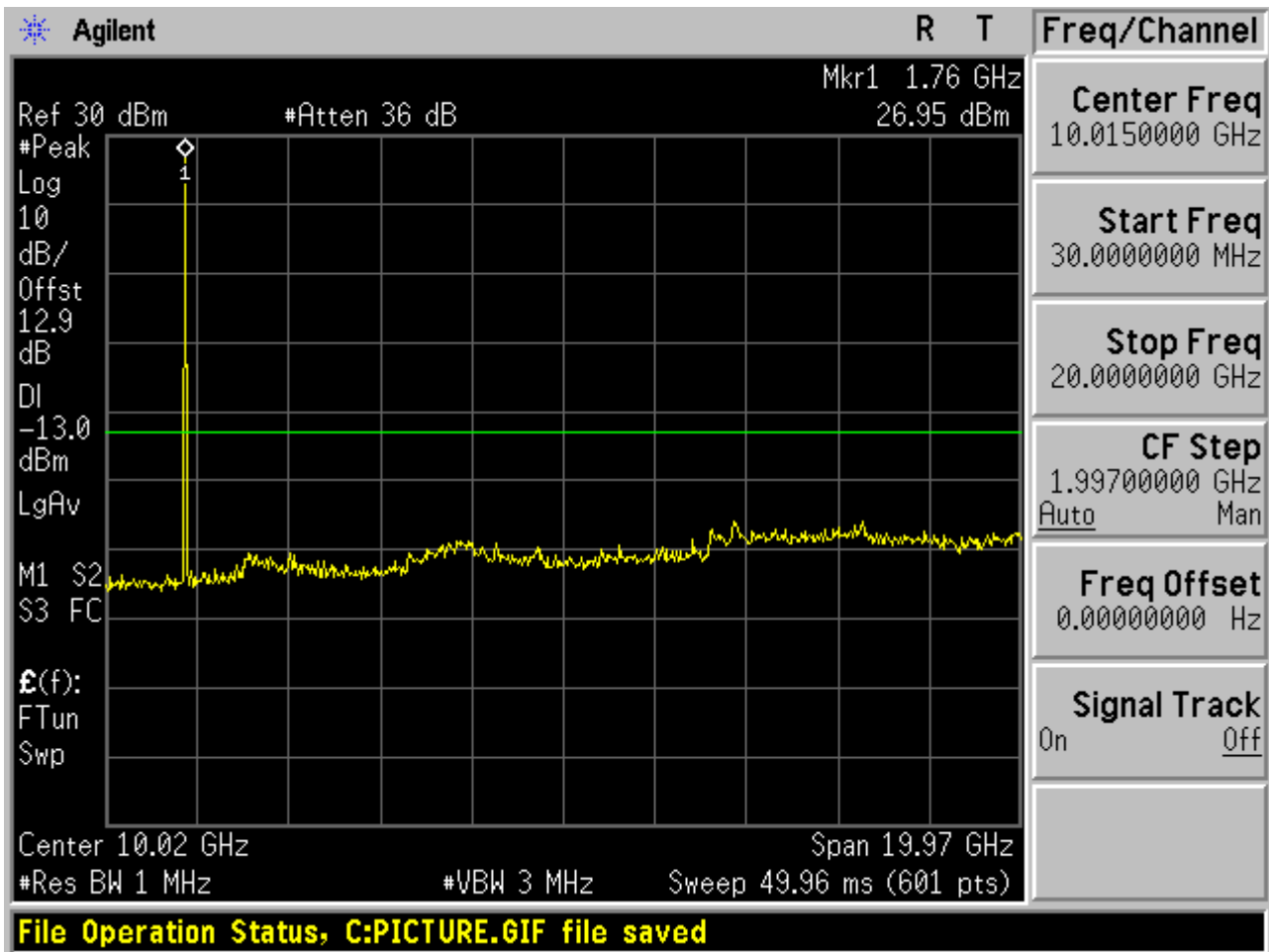


### 2.2.3.3 Channel= T

#### 2.2.3.3.1 16QAM/1RBs /RB #0







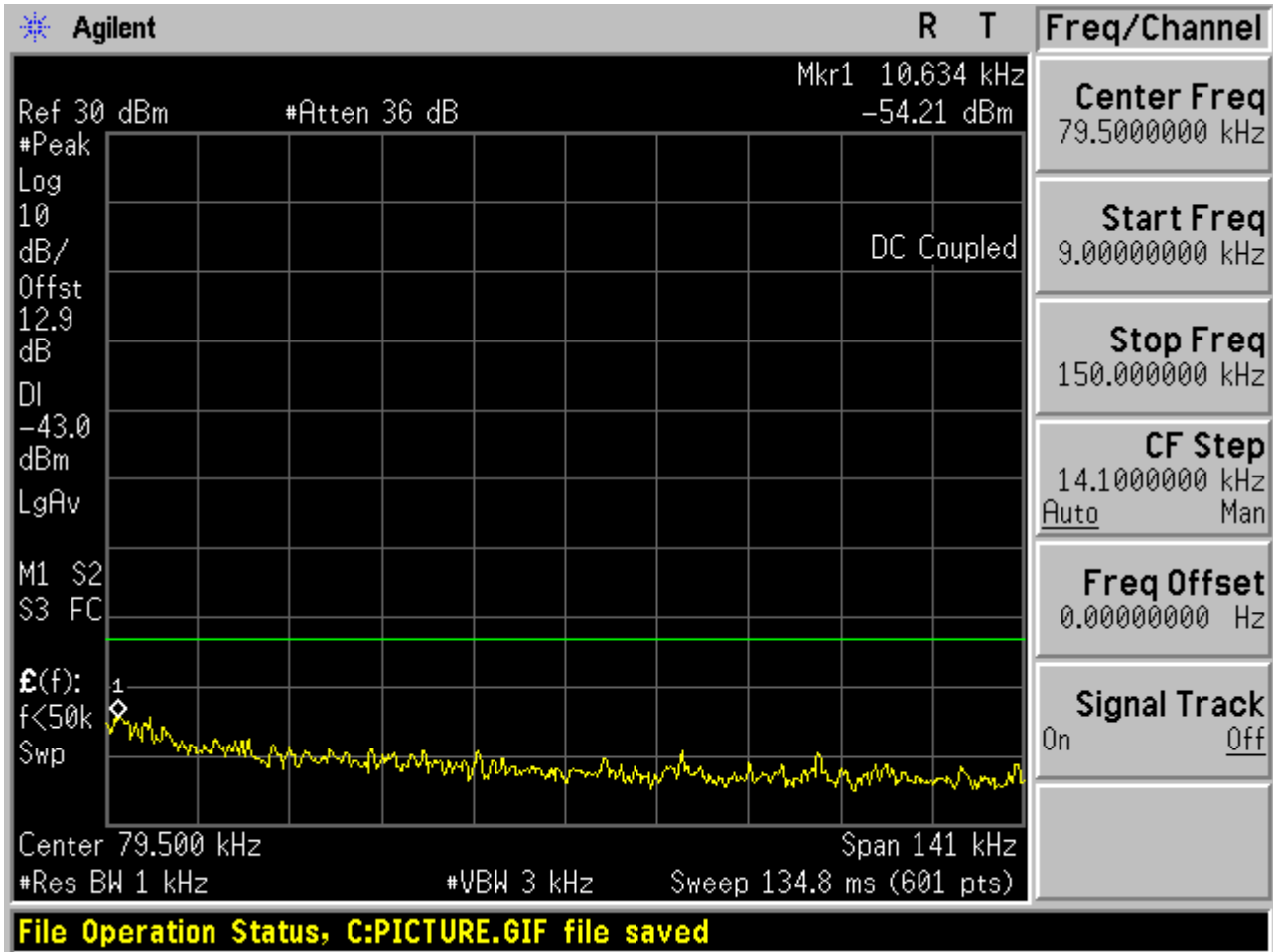


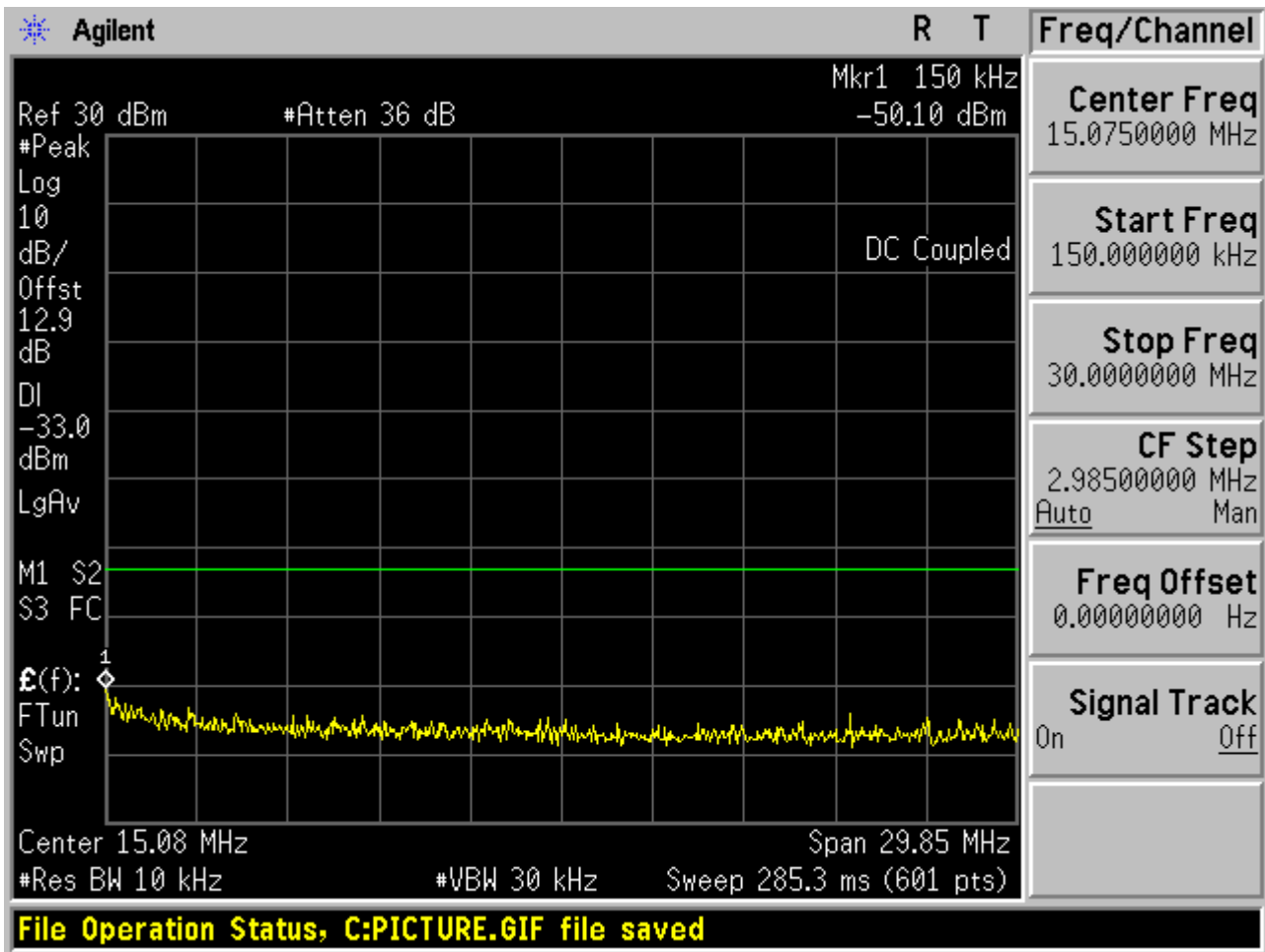


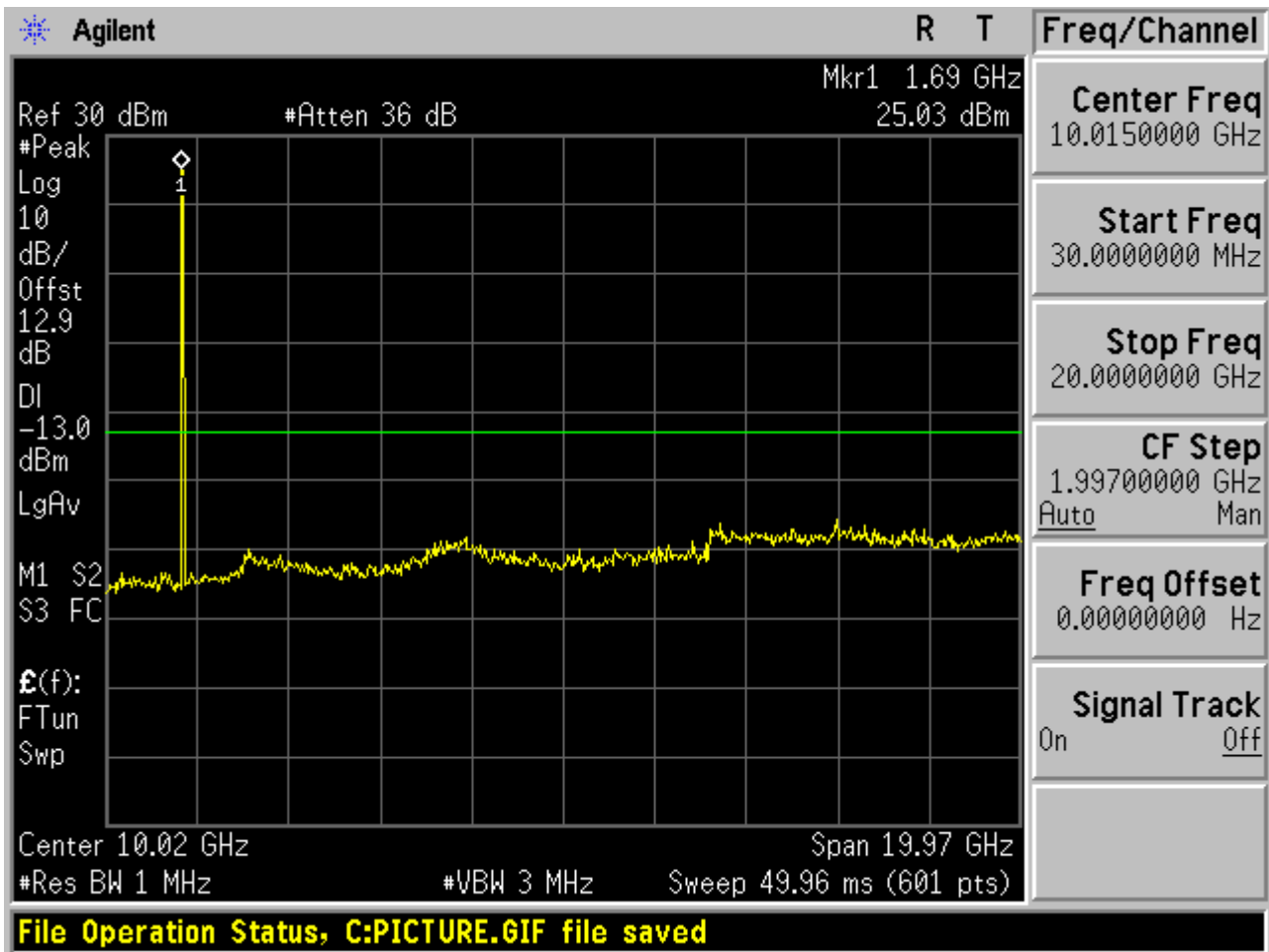
## 2.2.4 Channel Bandwidth = 10 MHz

### 2.2.4.1 Channel= B

#### 2.2.4.1.1 16QAM/1RBs /RB #0



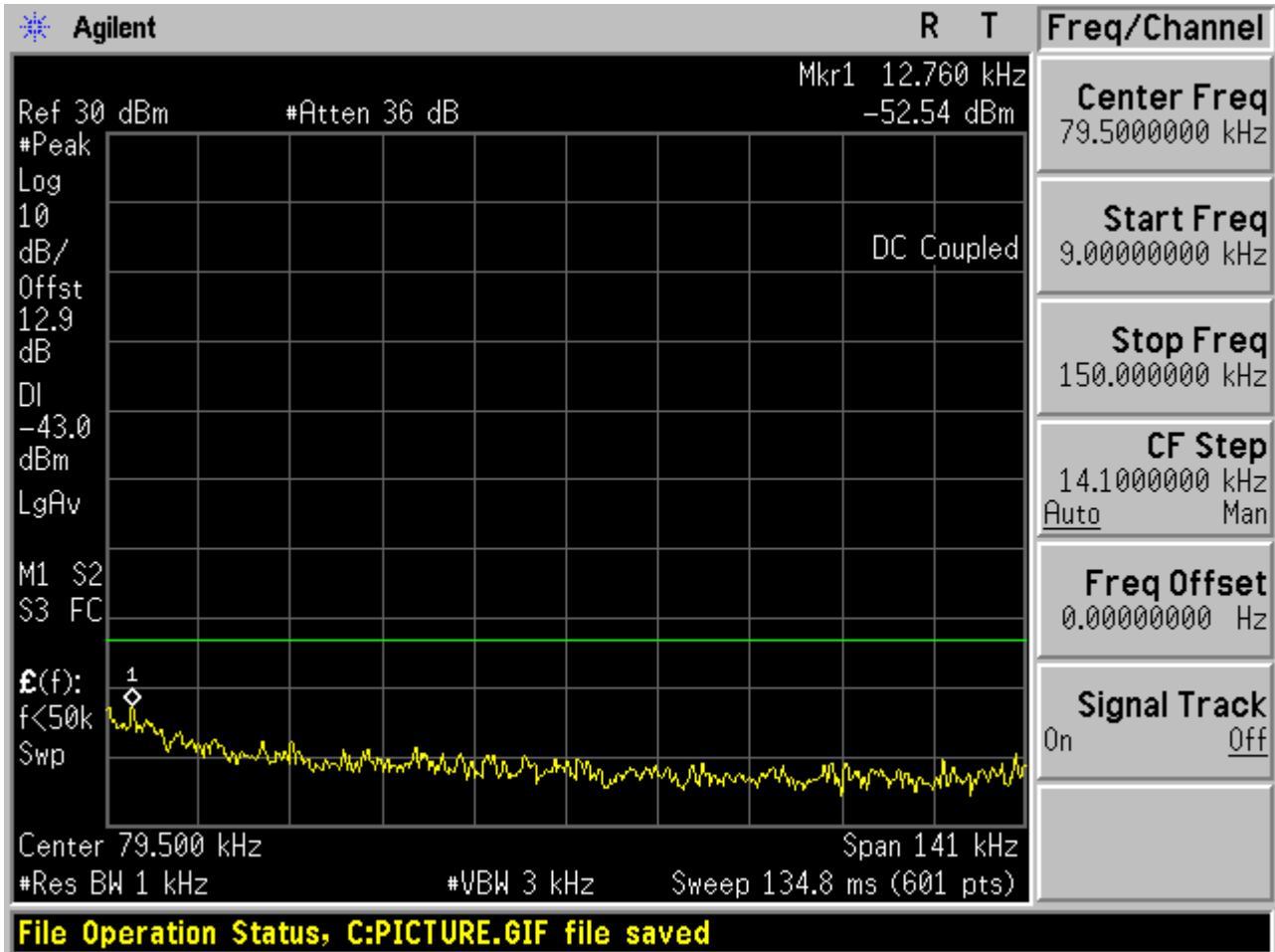


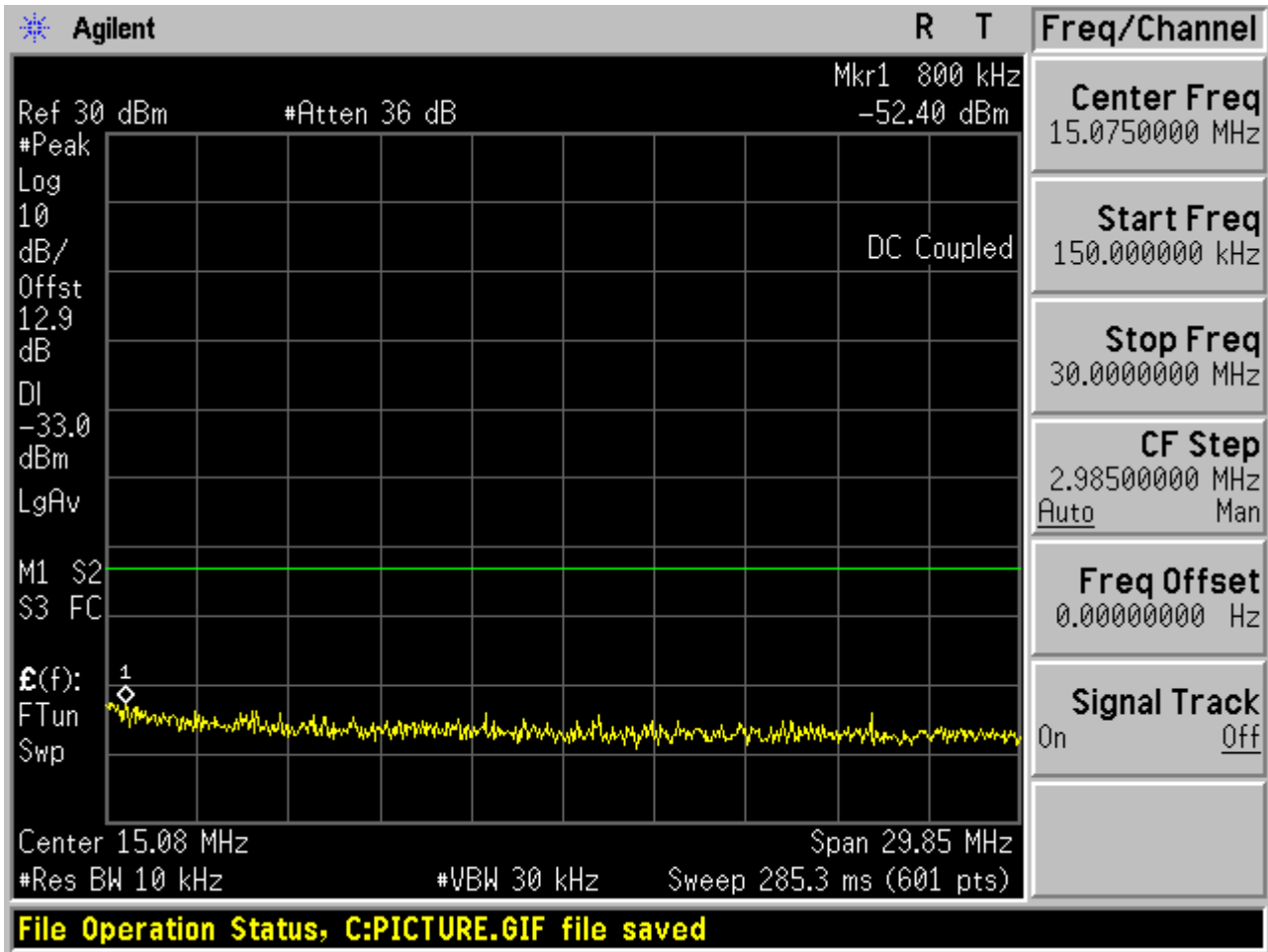


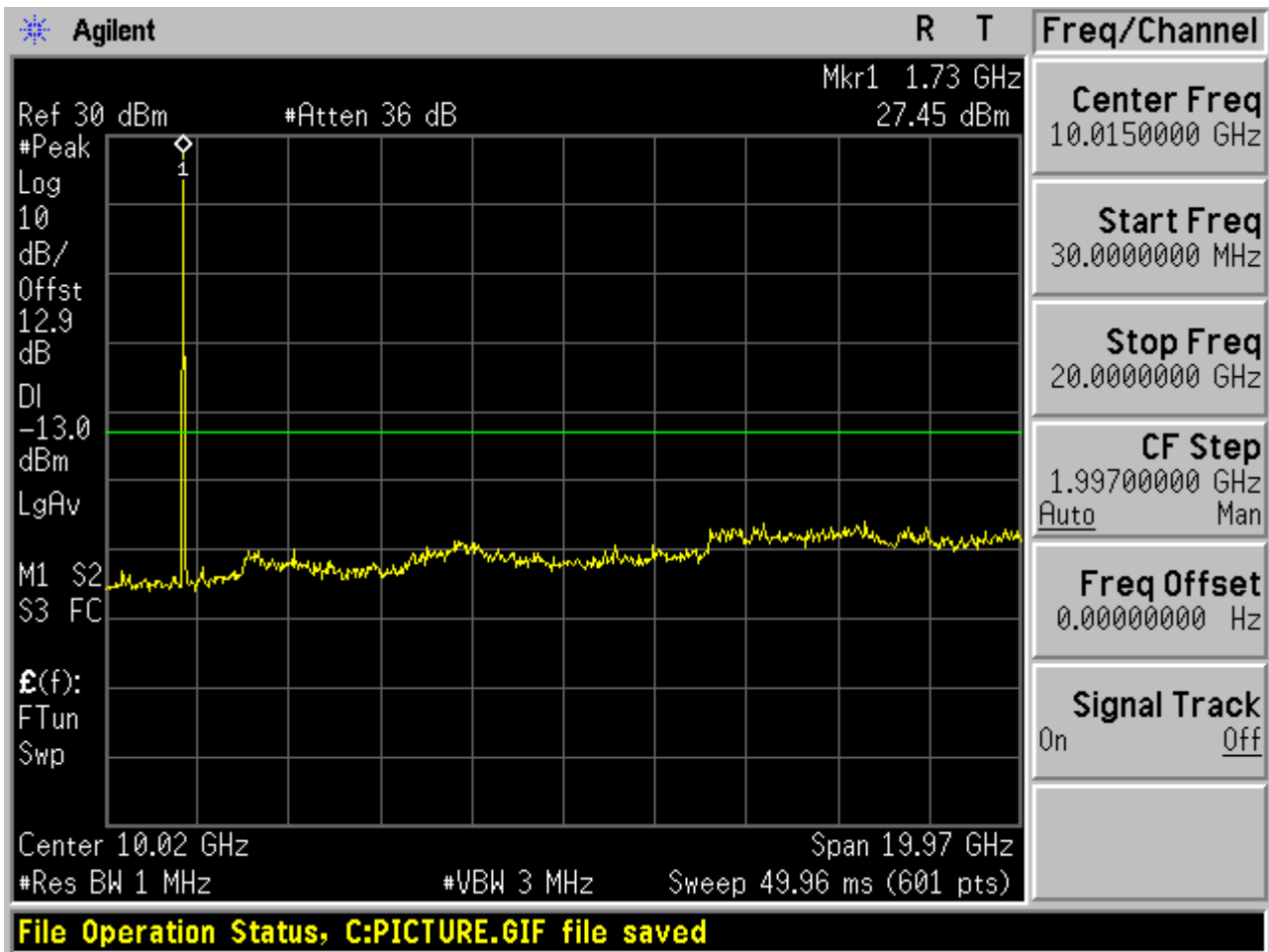


## 2.2.4.2 Channel = M

### 2.2.4.2.1 16QAM/1RBs /RB #0



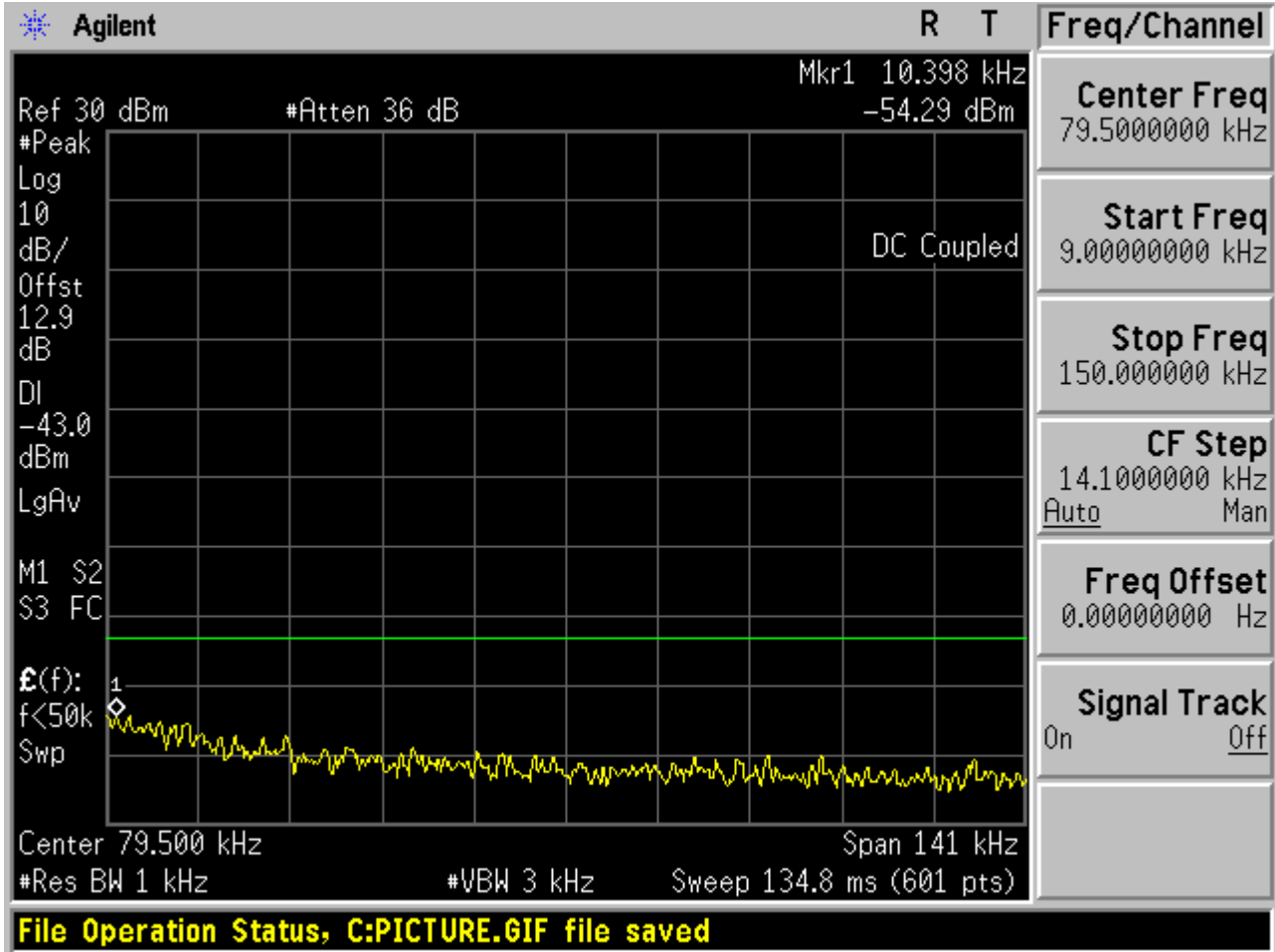


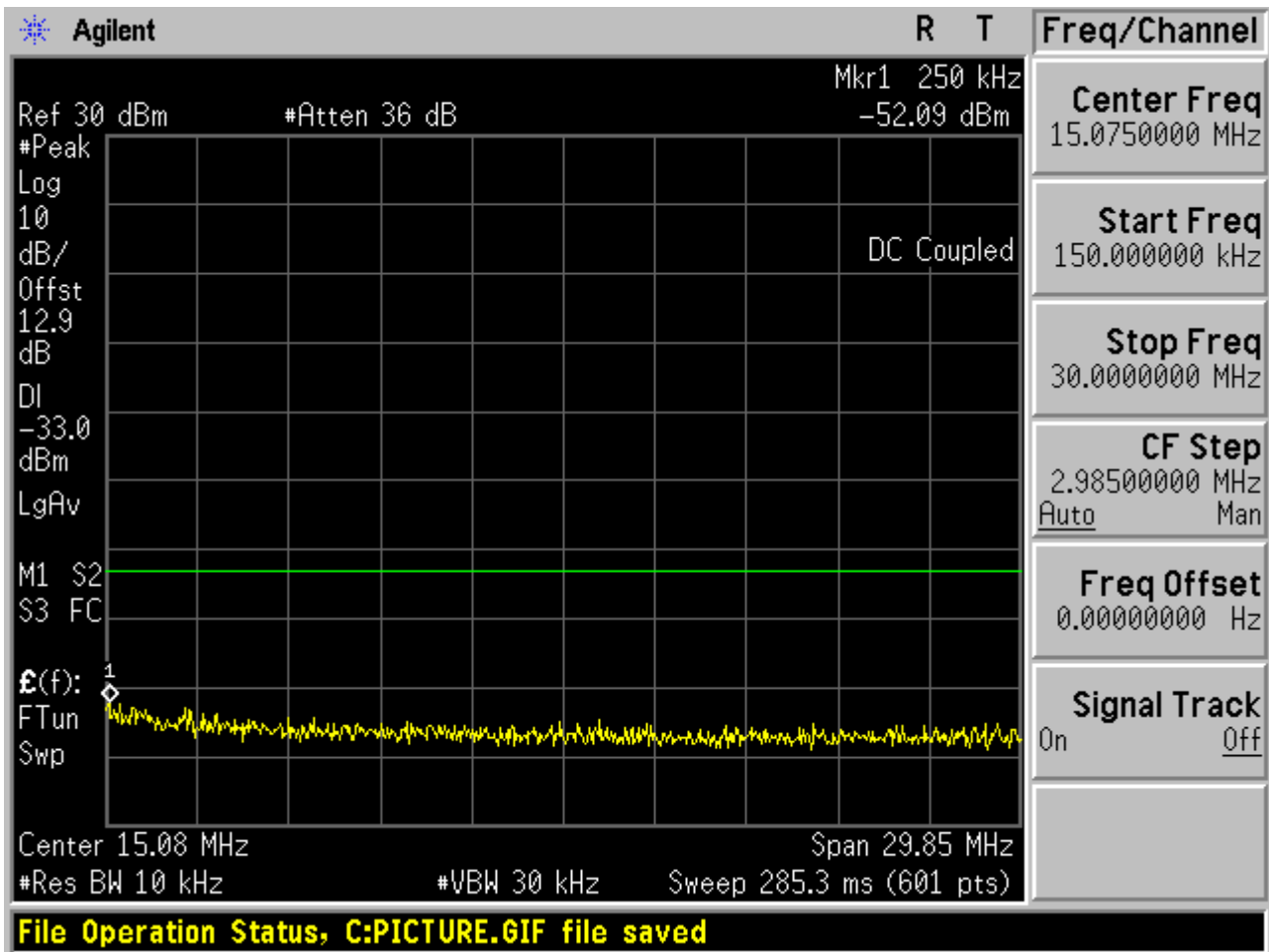




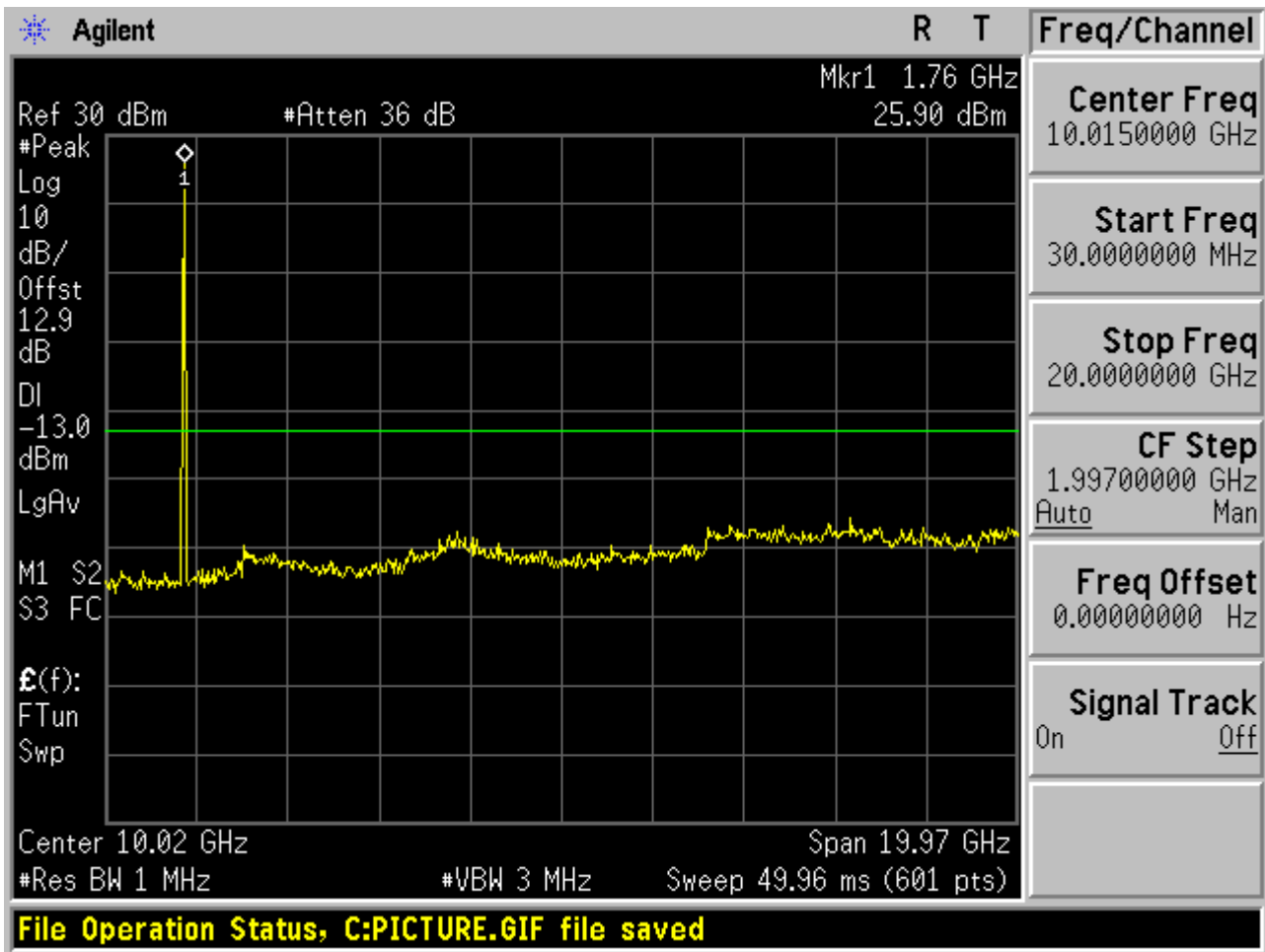
### 2.2.4.3 Channel= T

#### 2.2.4.3.1 16QAM/1RBs /RB #0







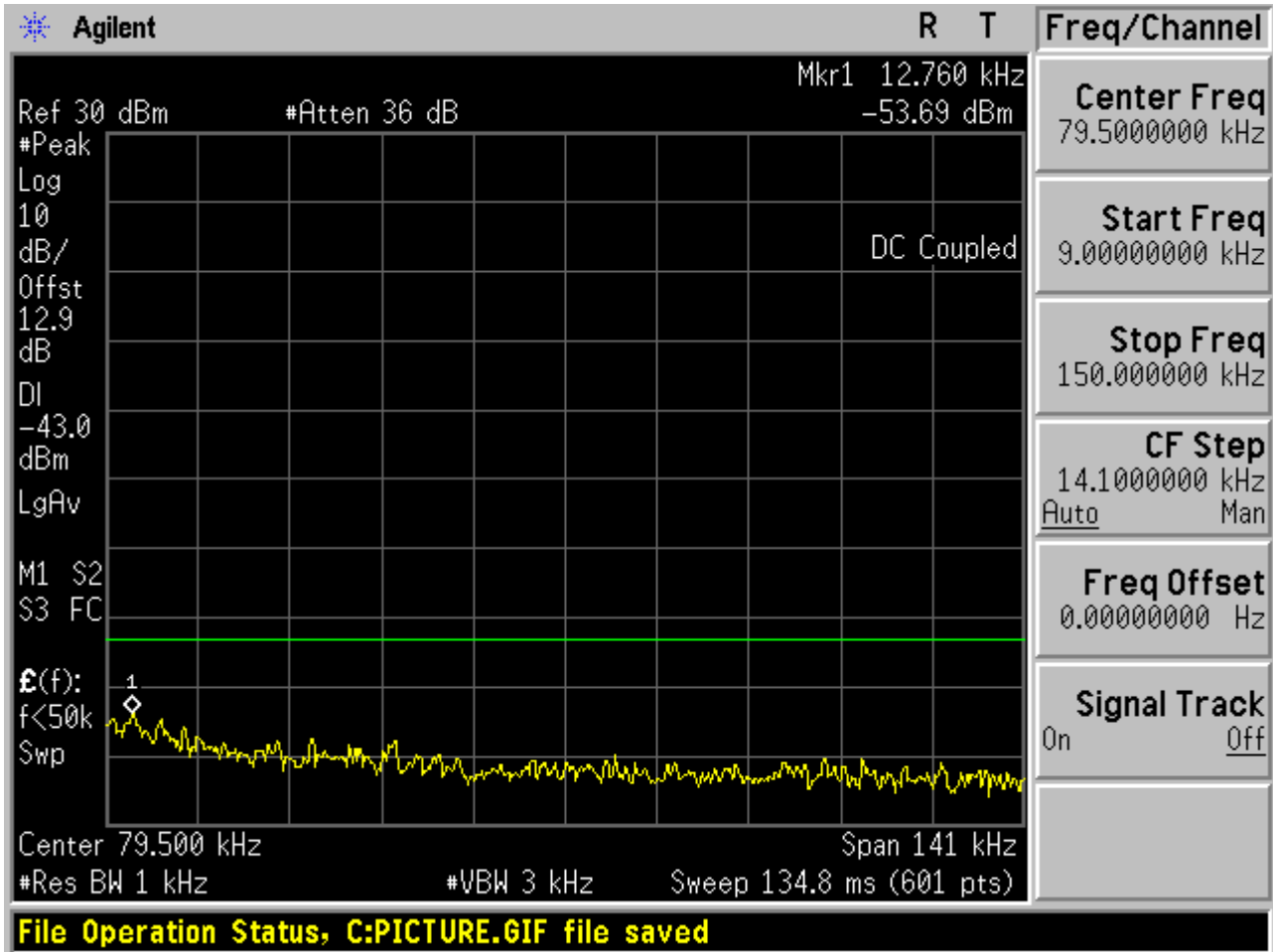


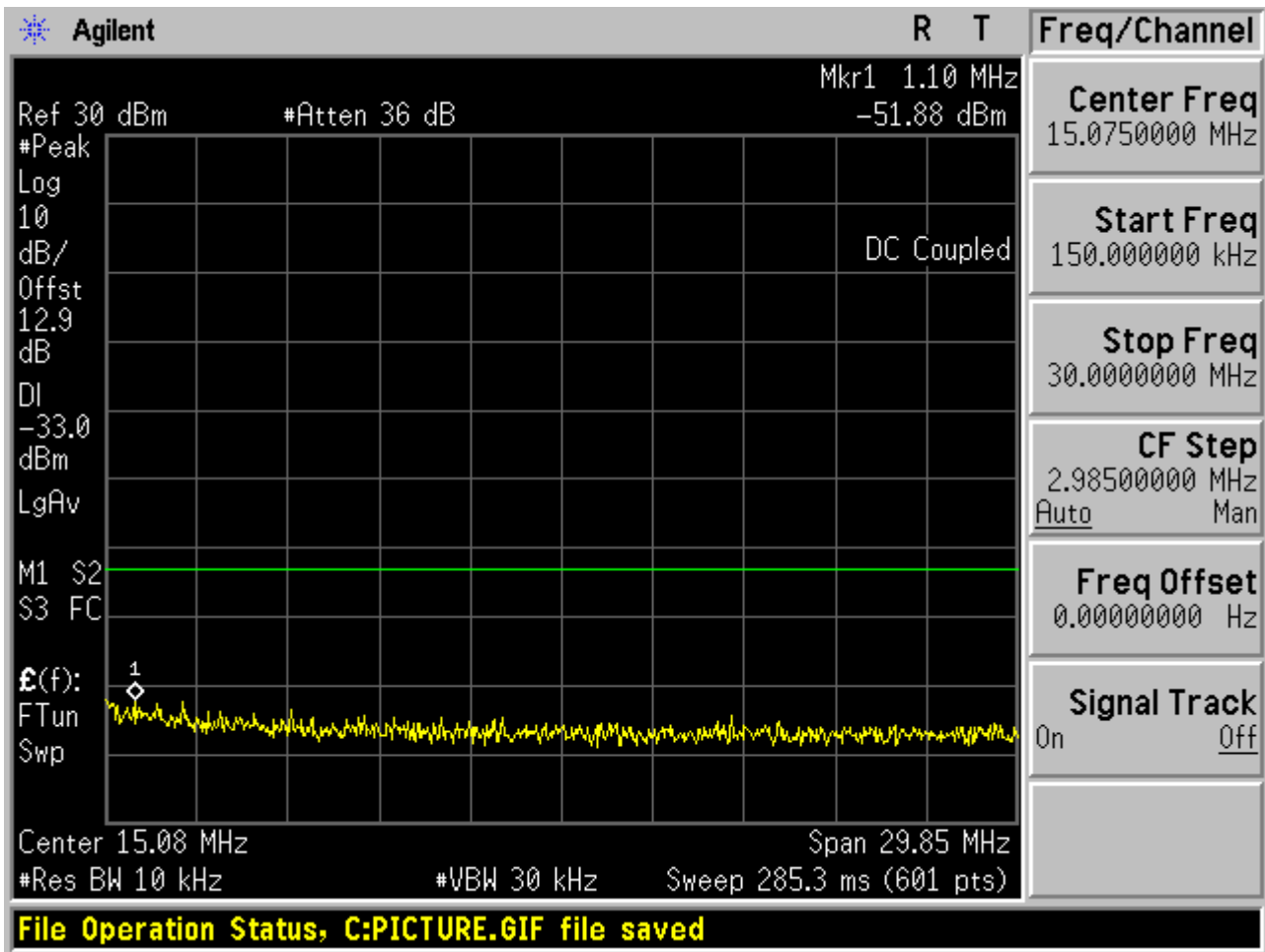


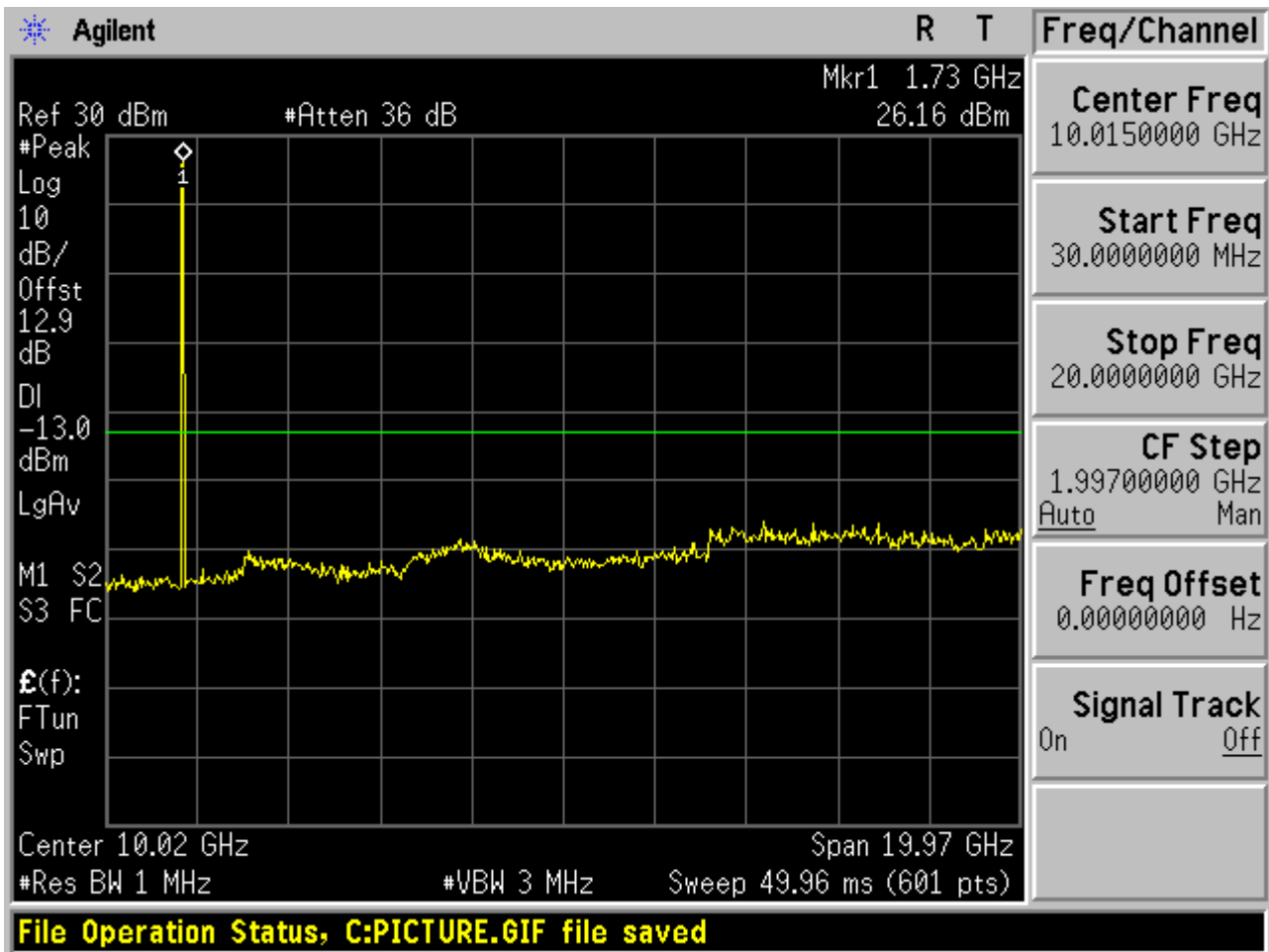
## 2.2.5 Channel Bandwidth = 15 MHz

### 2.2.5.1 Channel= B

#### 2.2.5.1.1 16QAM/1RBs /RB #0



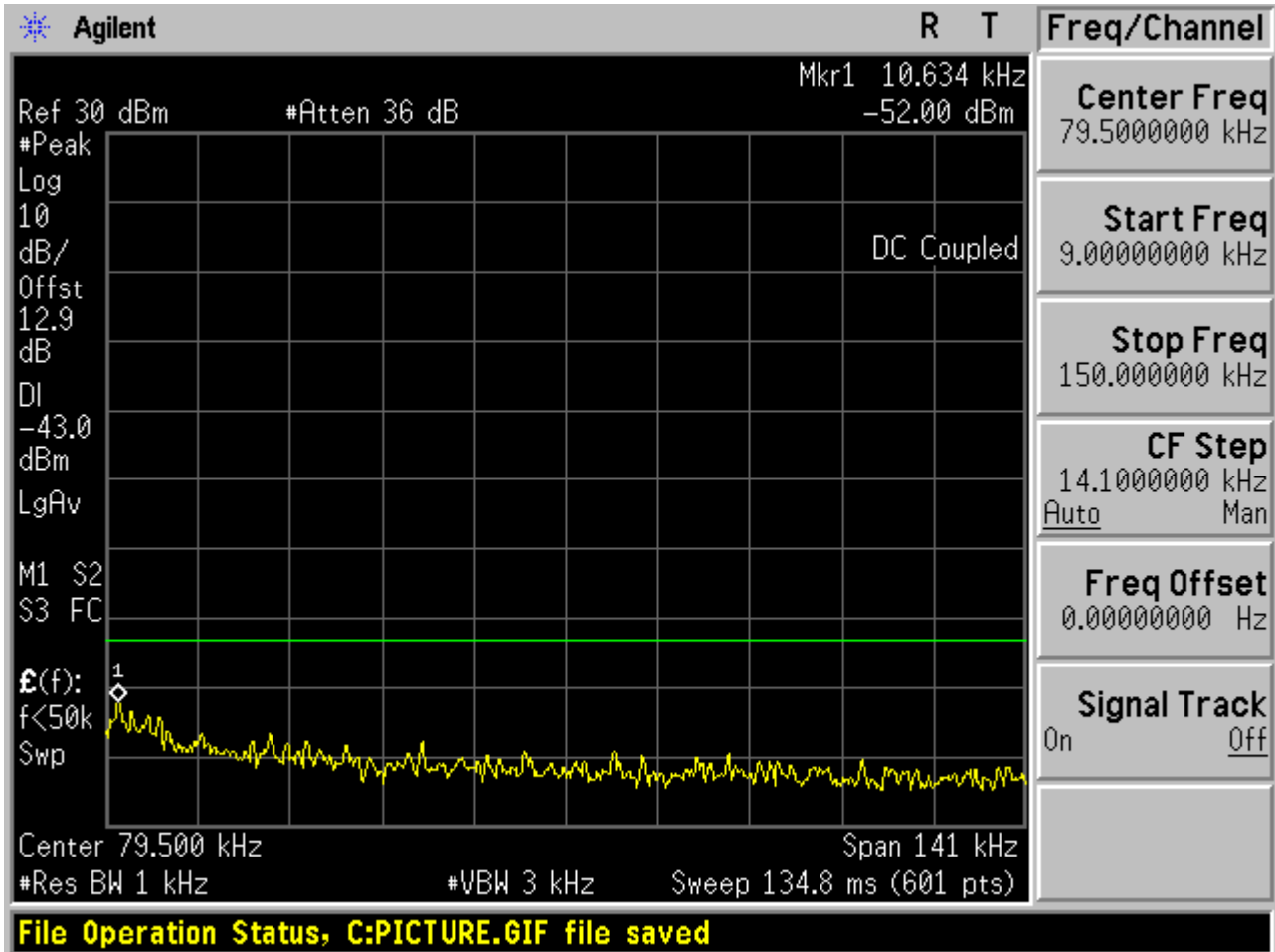


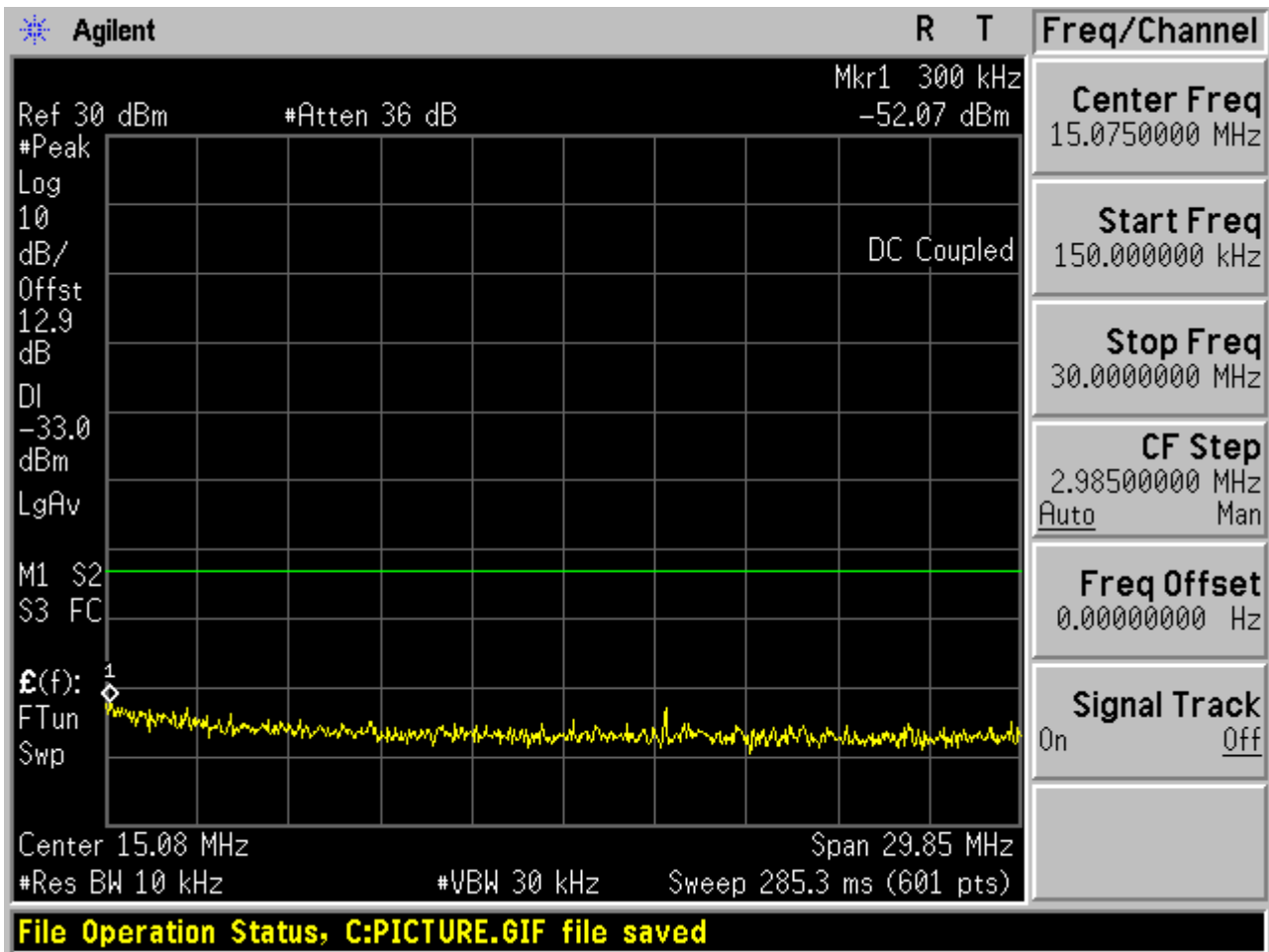


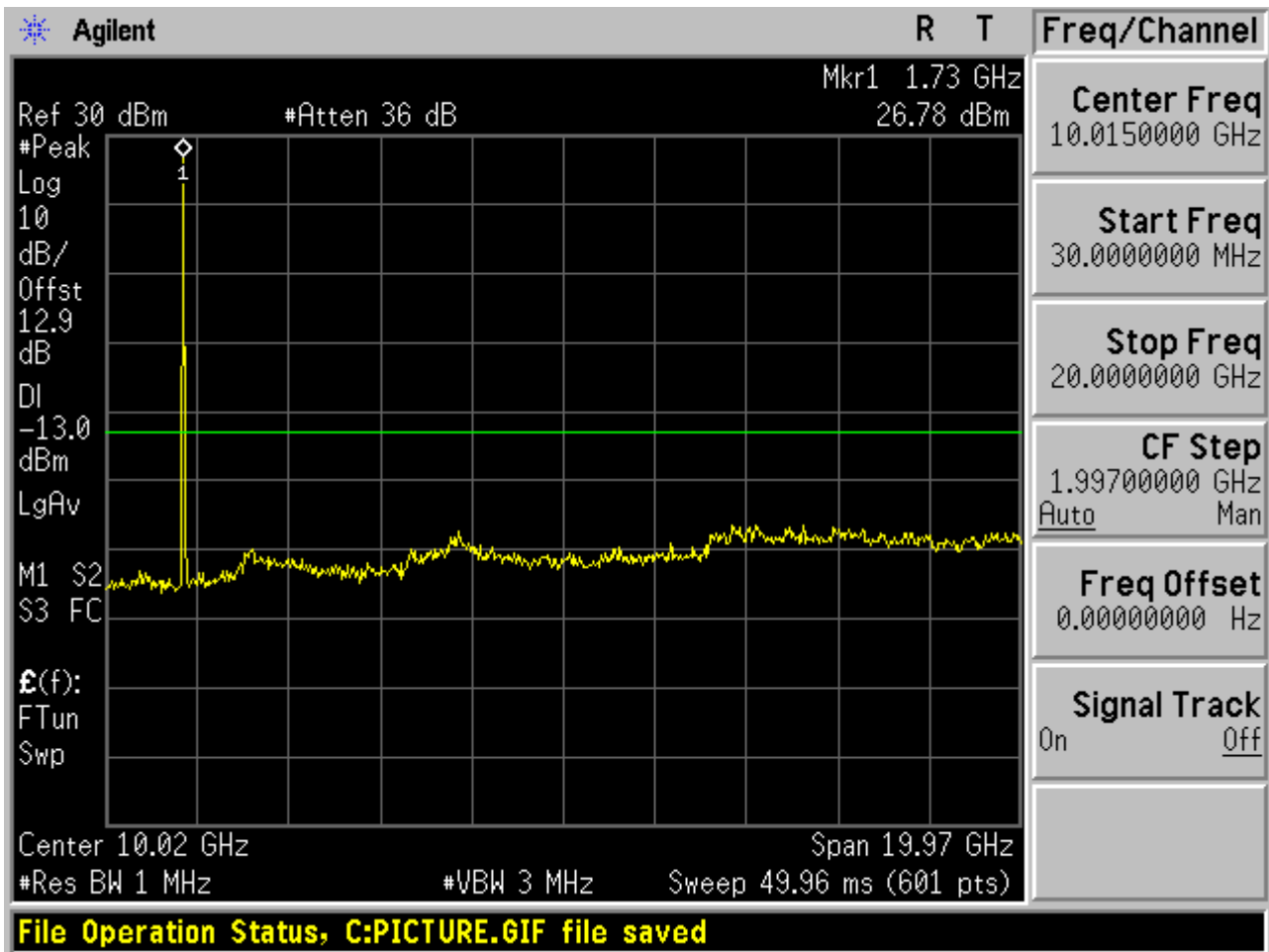


## 2.2.5.2 Channel = M

### 2.2.5.2.1 16QAM/1RBs /RB #0



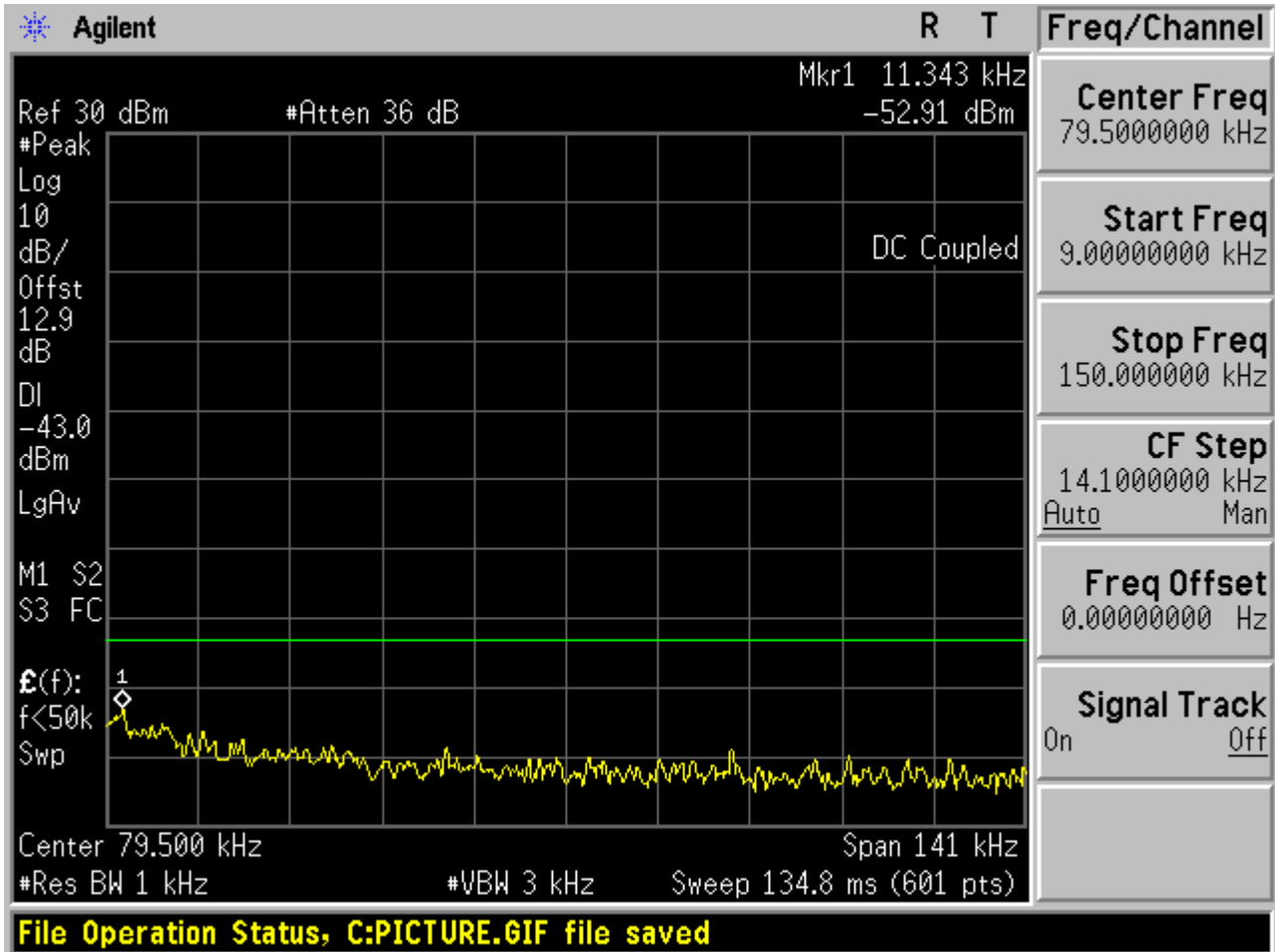




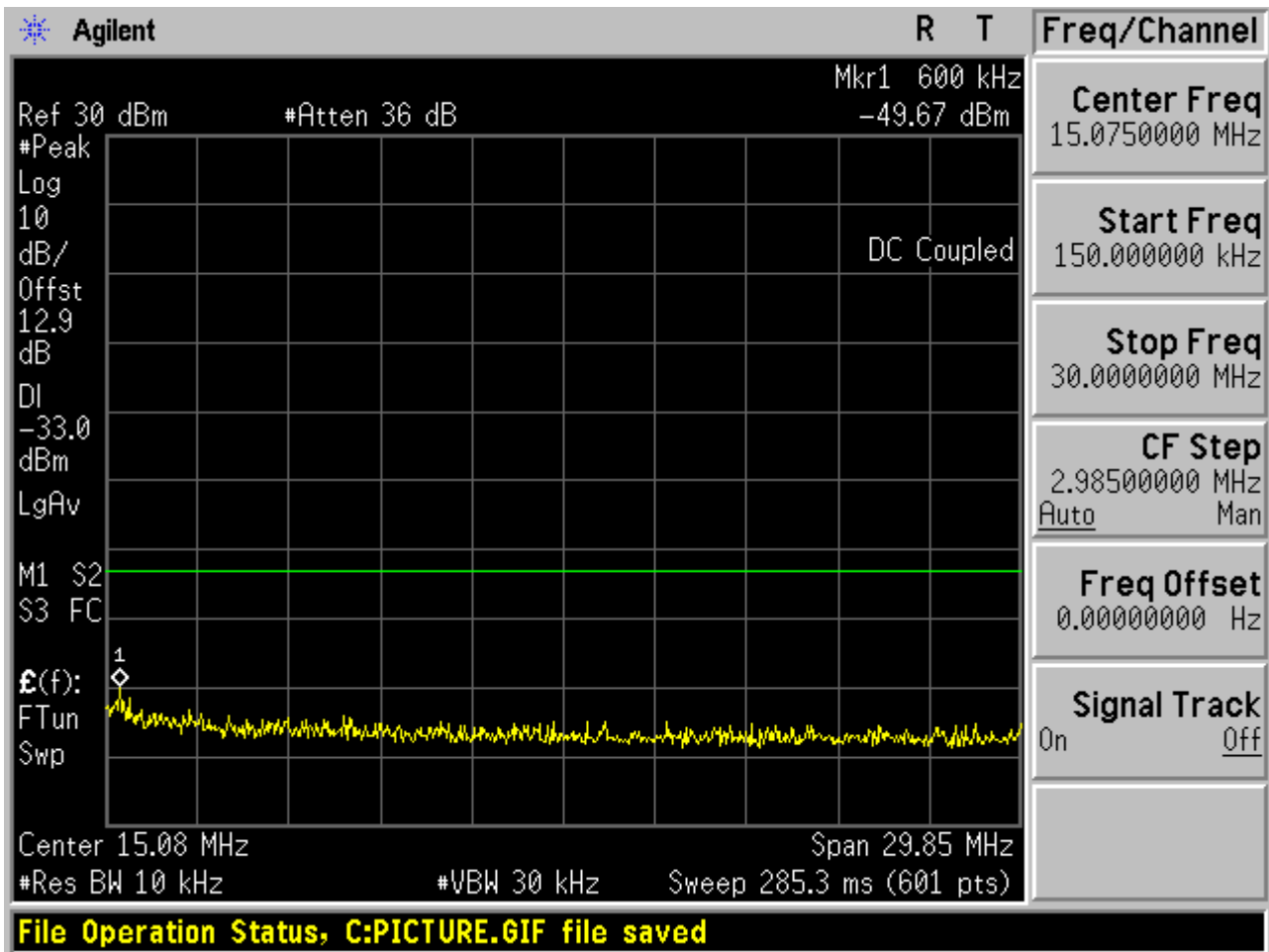


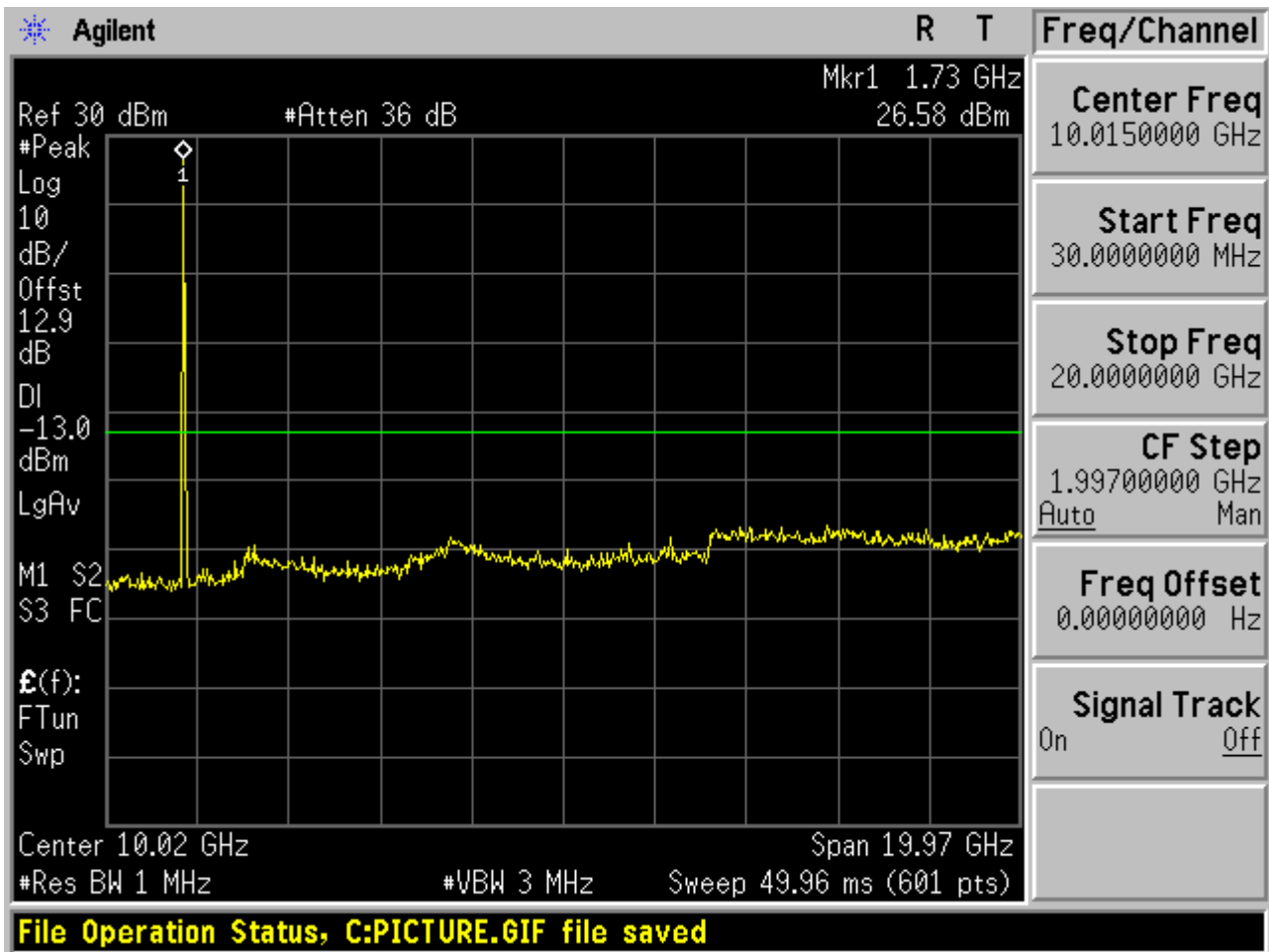
### 2.2.5.3 Channel= T

#### 2.2.5.3.1 16QAM/1RBs /RB #0







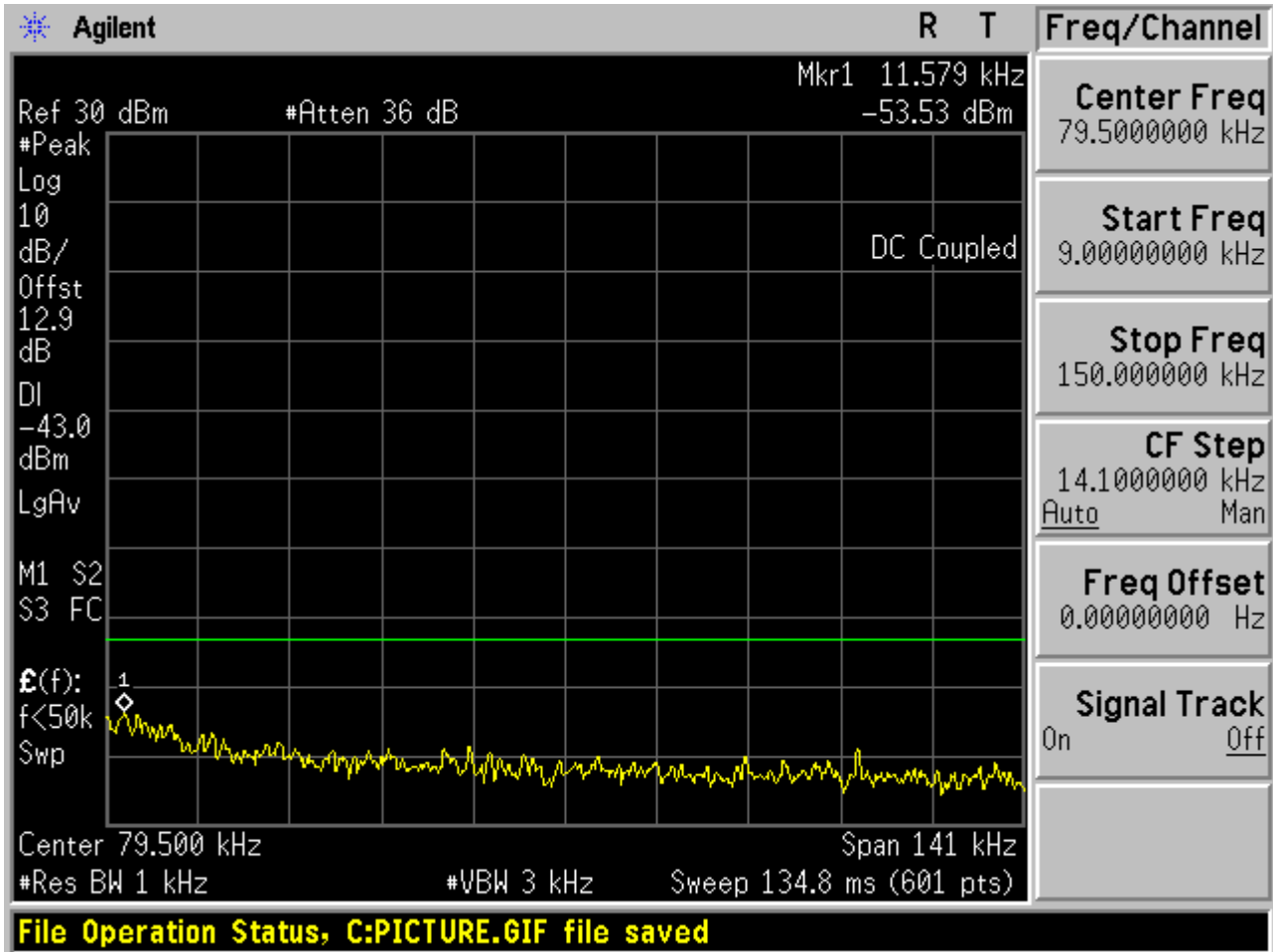


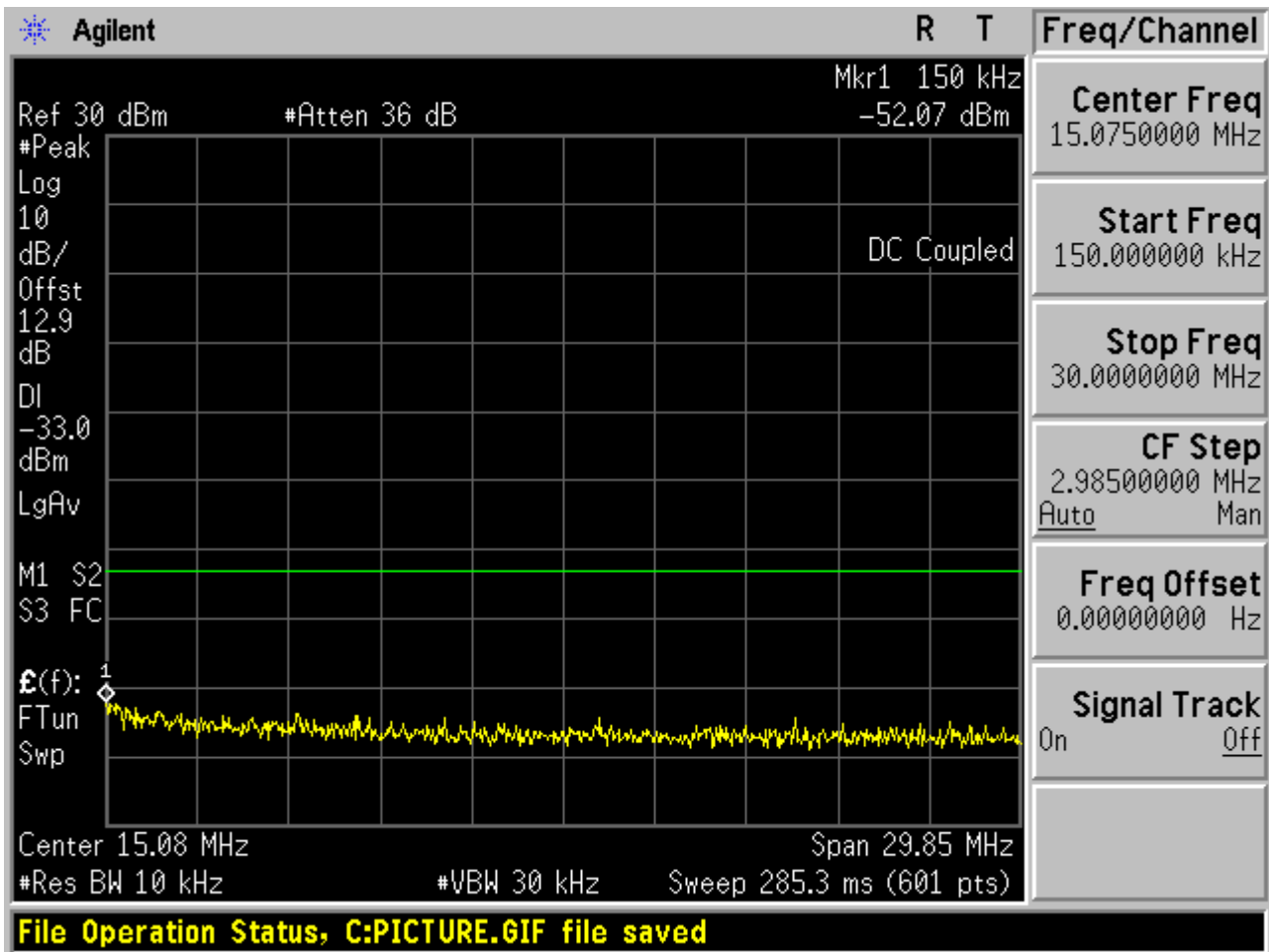


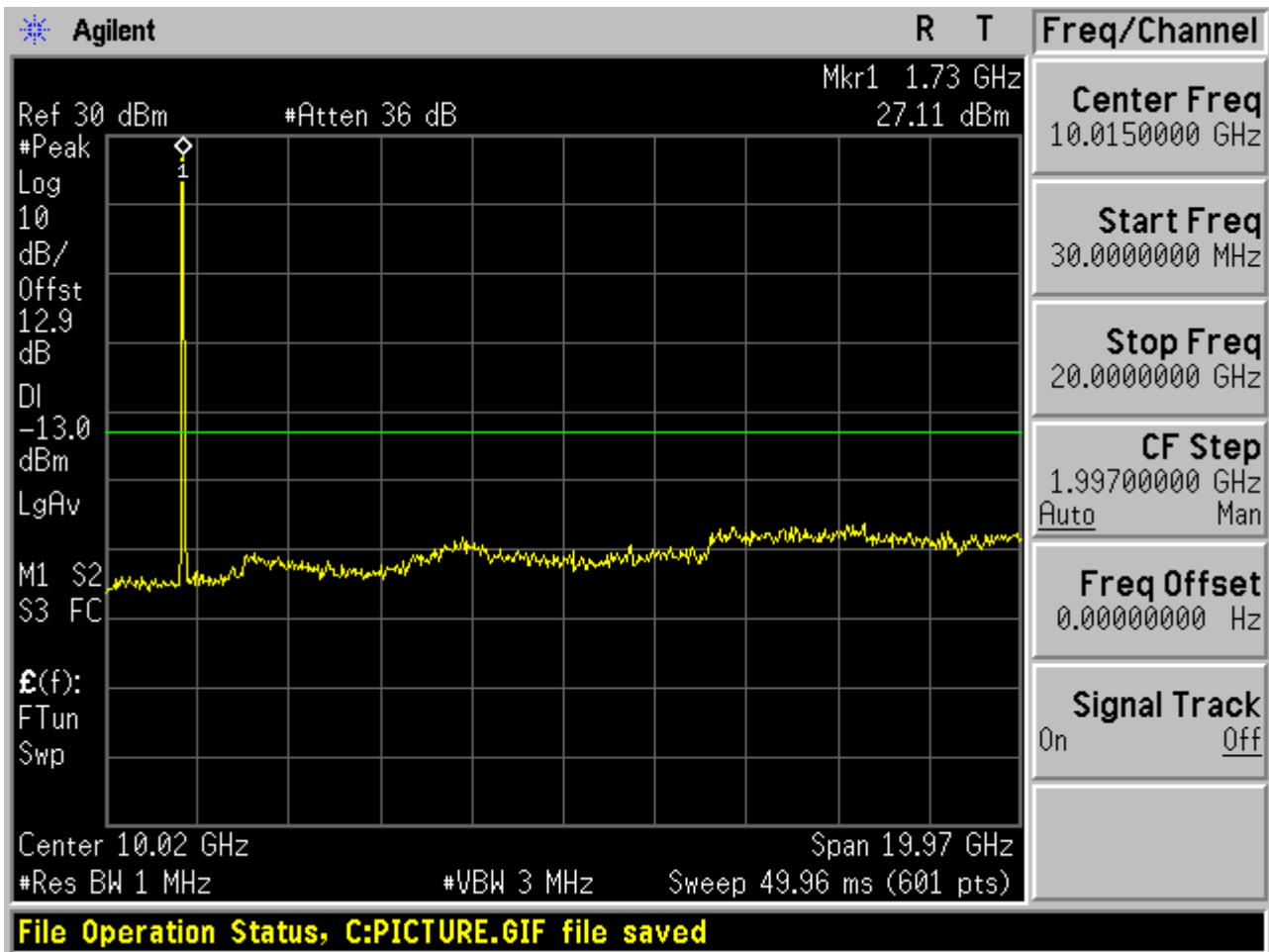
## 2.2.6 Channel Bandwidth = 20 MHz

### 2.2.6.1 Channel= B

#### 2.2.6.1.1 16QAM/1RBs /RB #0



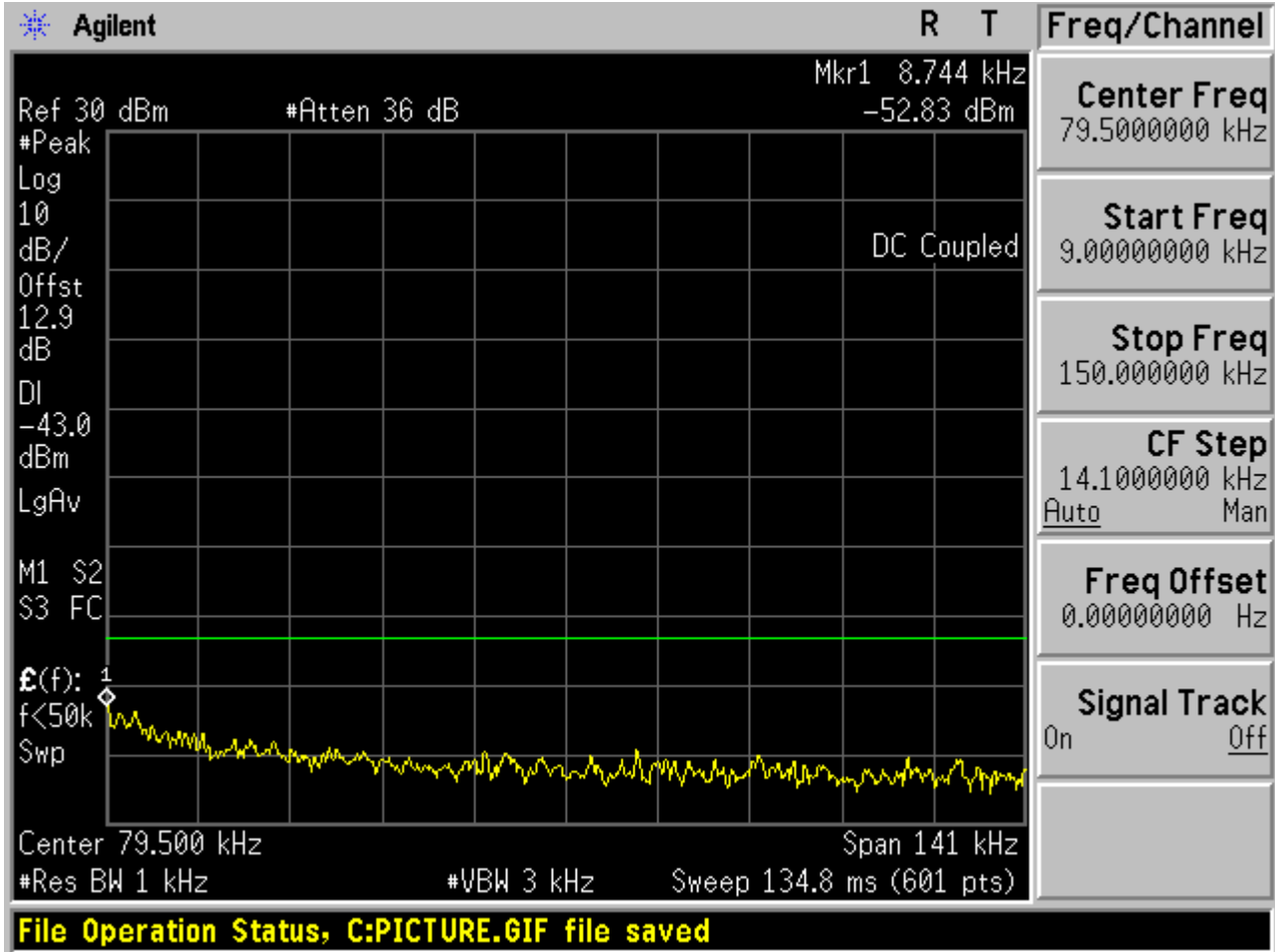


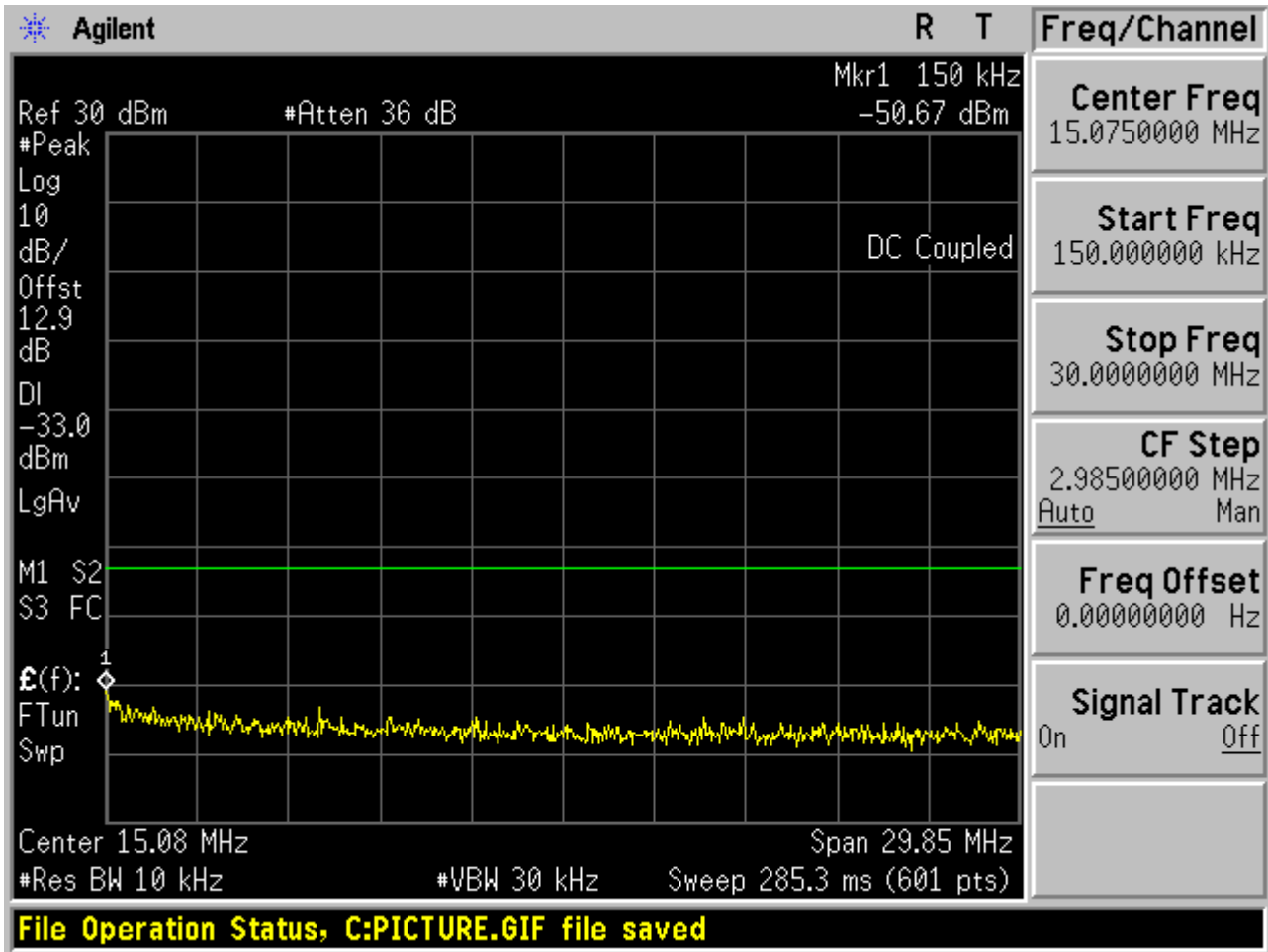


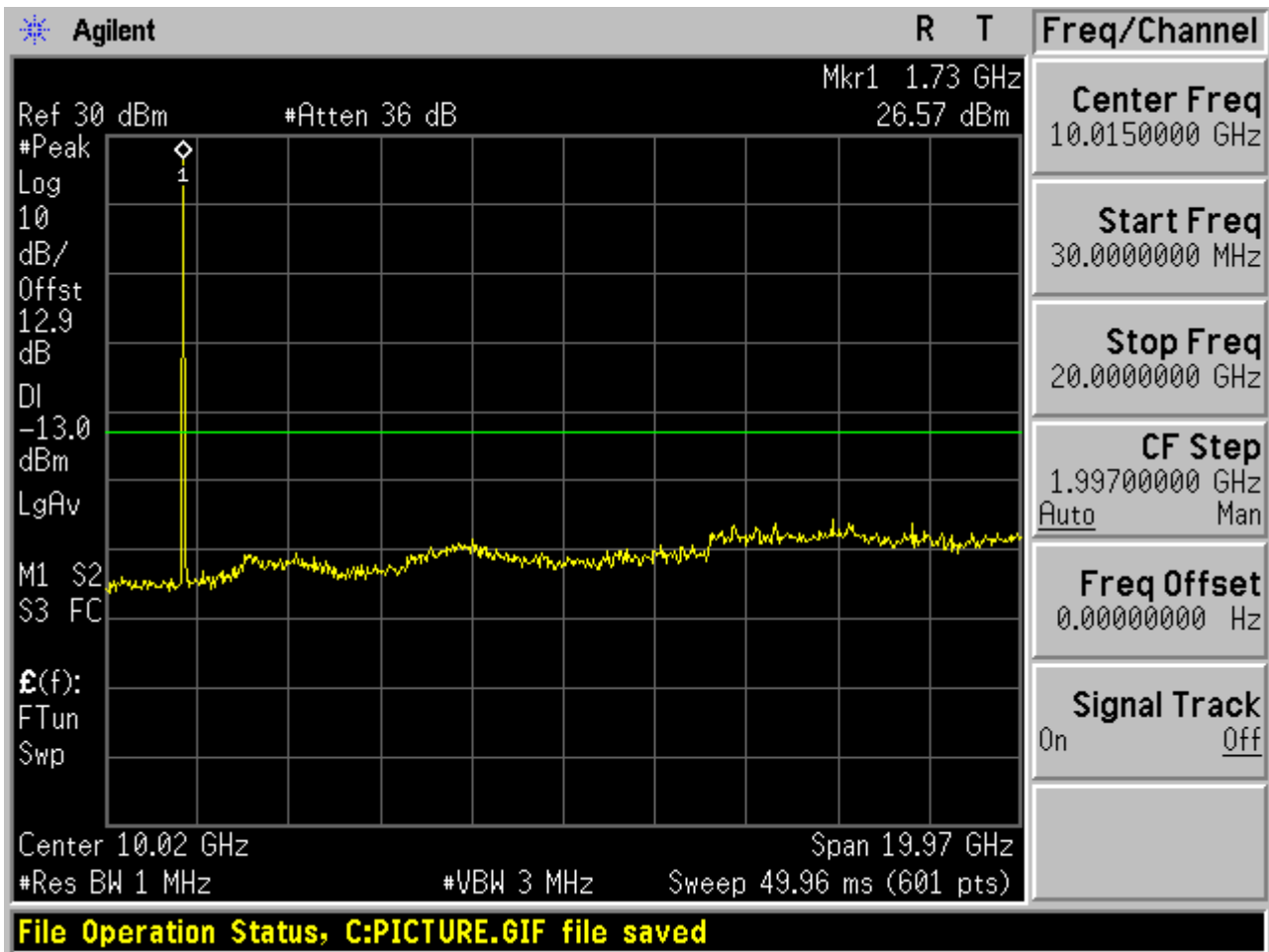


## 2.2.6.2 Channel = M

### 2.2.6.2.1 16QAM/1RBs /RB #0





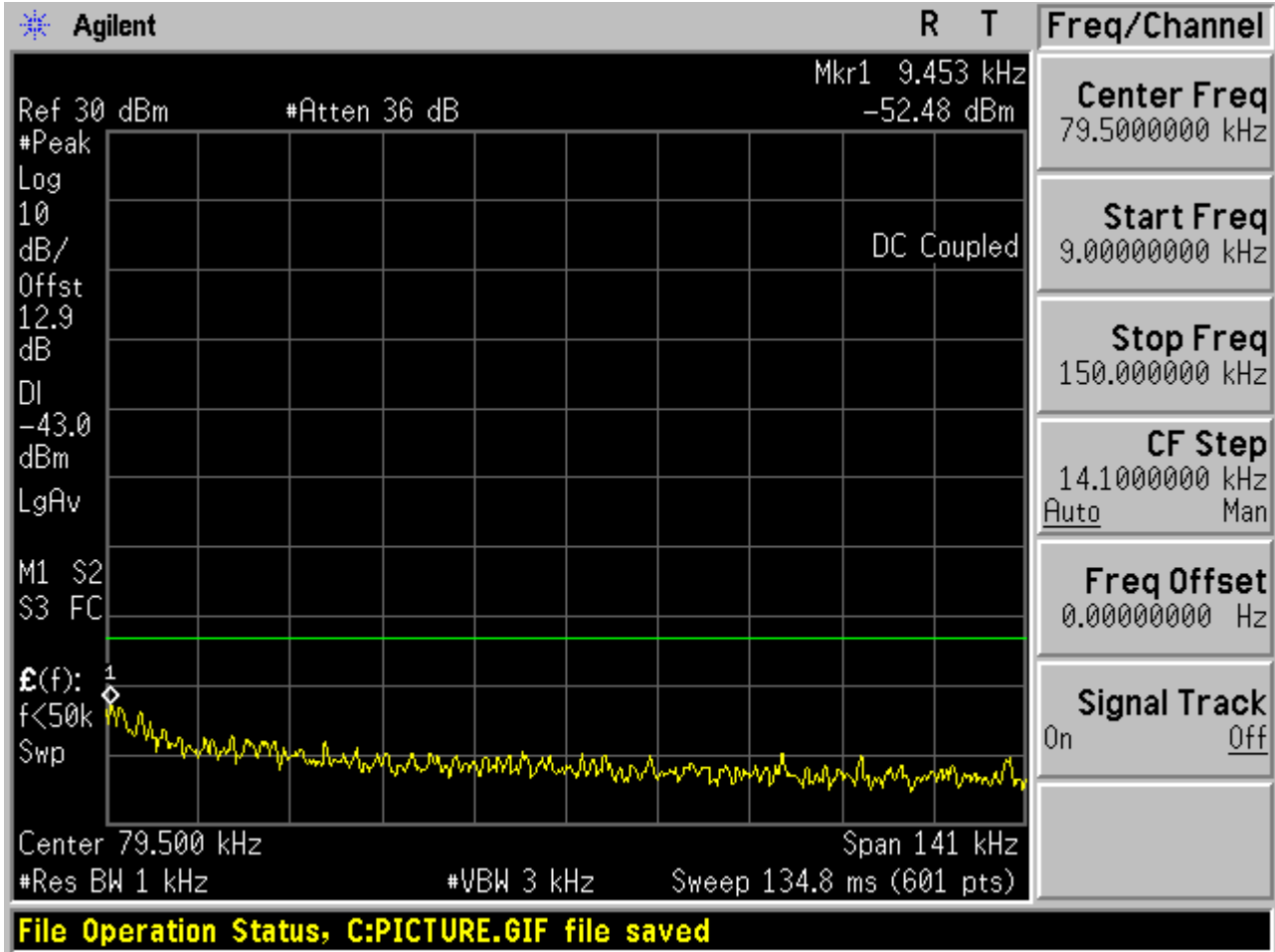


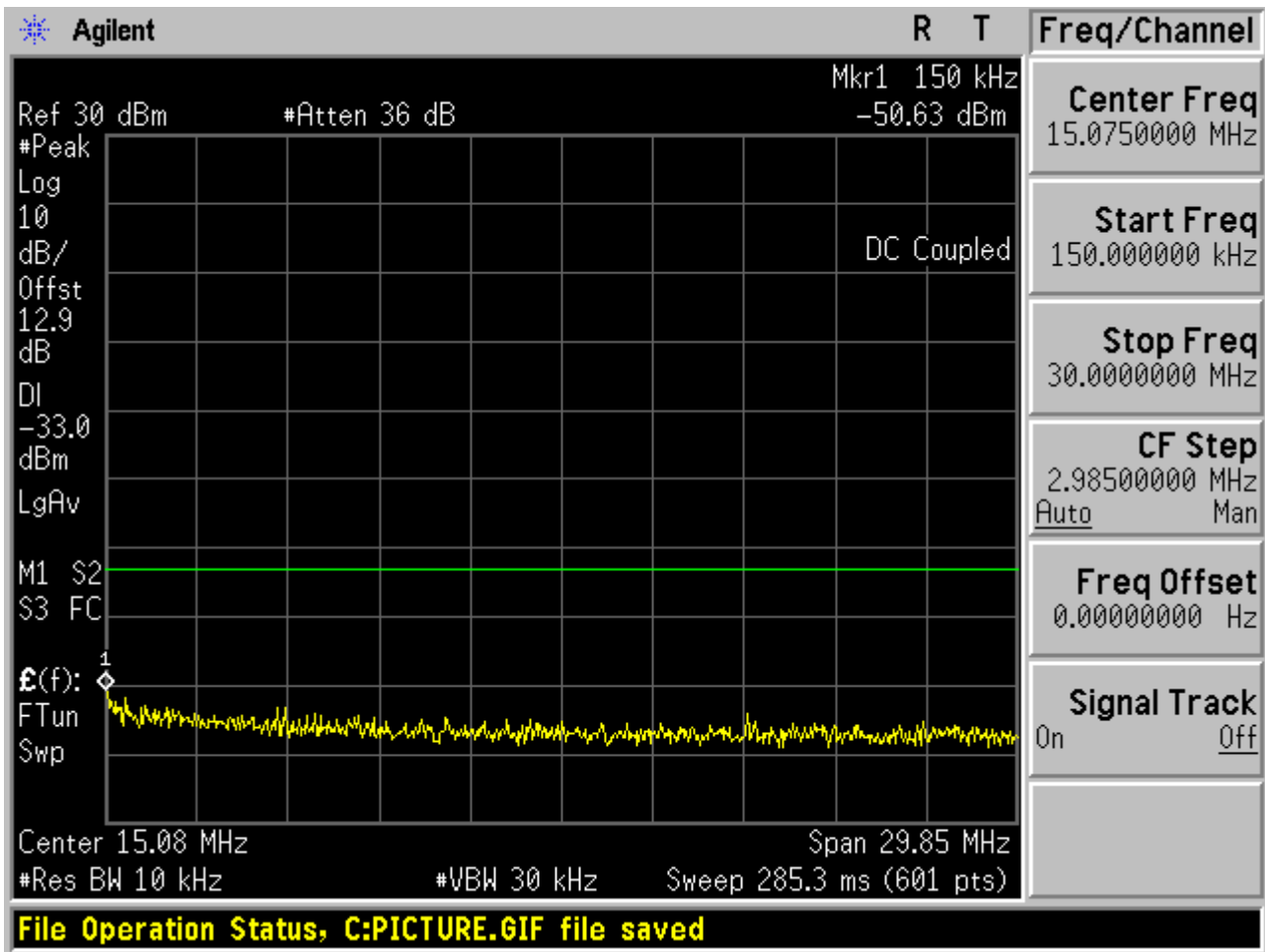


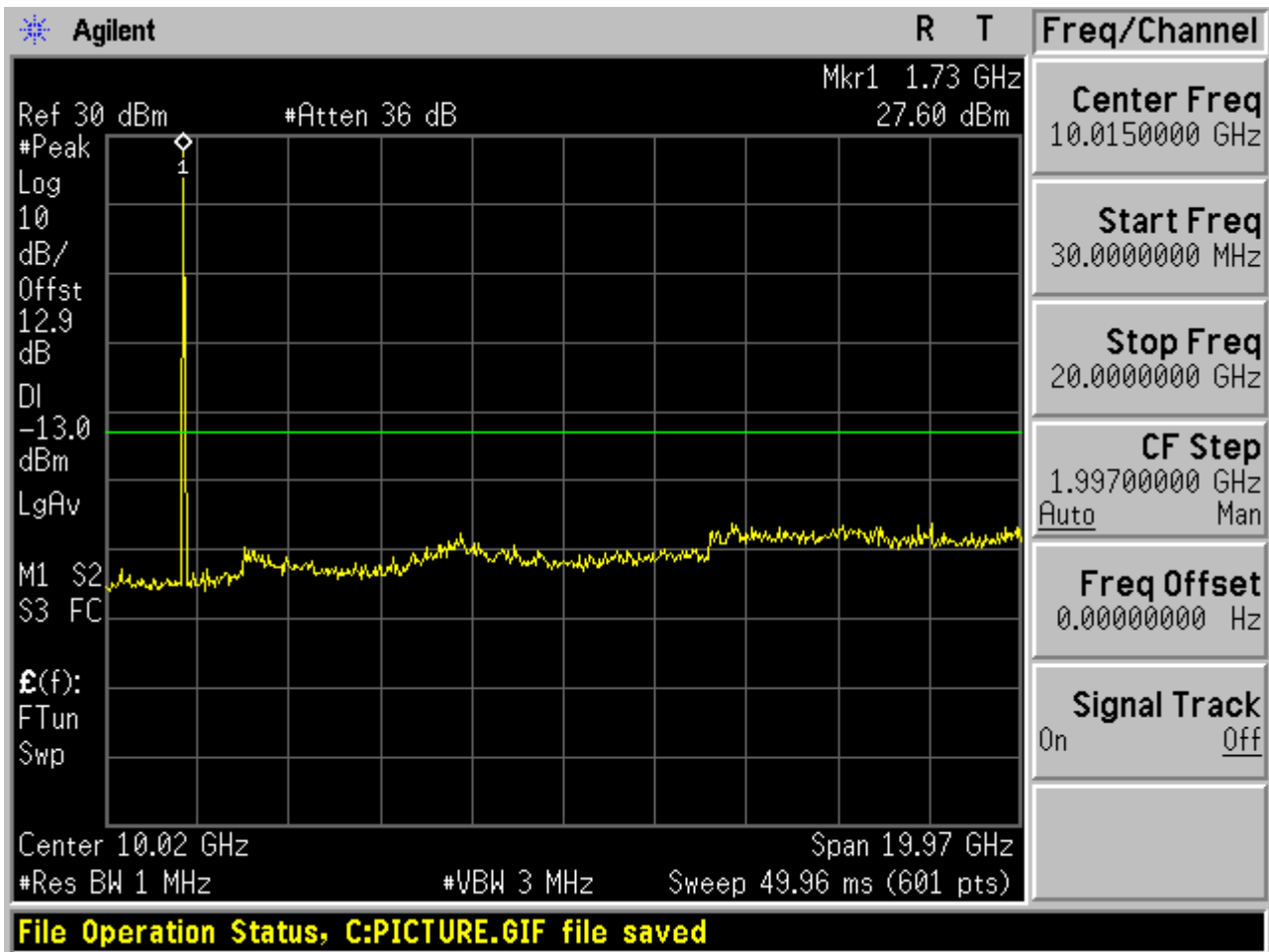


### 2.2.6.3 Channel= T

#### 2.2.6.3.1 16QAM/1RBs /RB #0







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FCC Test Report of B890-66  
FCC ID:QISB890  
IC: 6369A-B890



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# Appendix F

## Radiated spurious emission

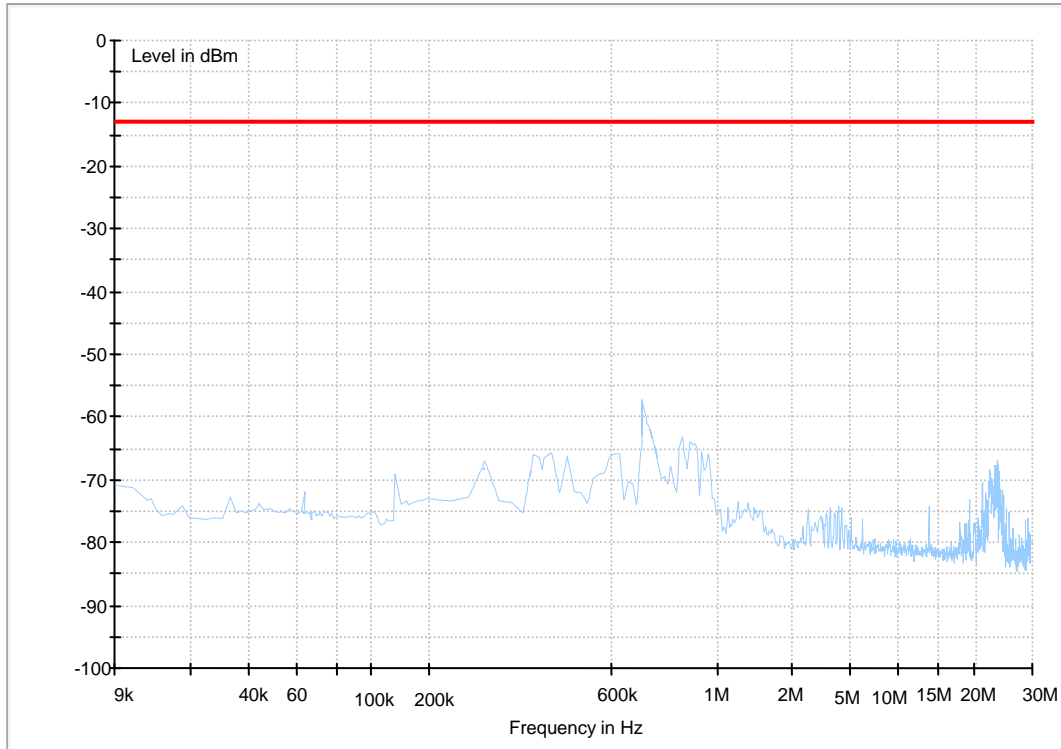
According to FCC Part 2.1053& Part 27.53(h) & RSS-139



Note: 1. Simultaneous transmission was investigated and no new emissions were found.  
2.  $RBW \geq 1\text{MHz}$ ,  $VBW > 3 \times RBW$ .

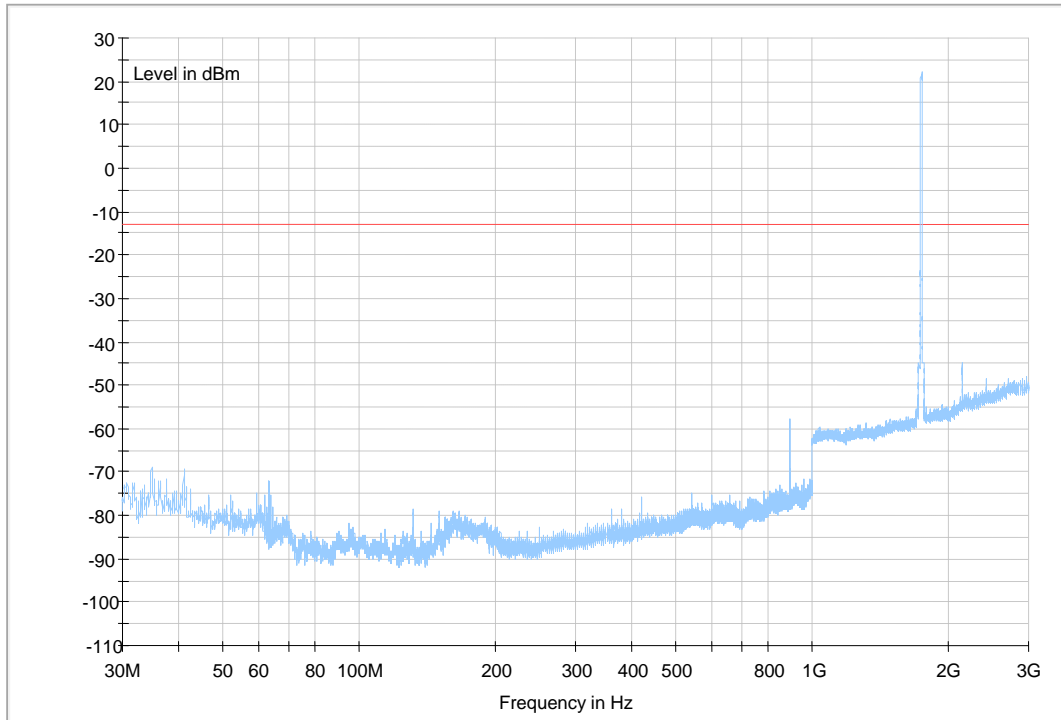
## WCDMA Band IV

(9KHz~30MHz)



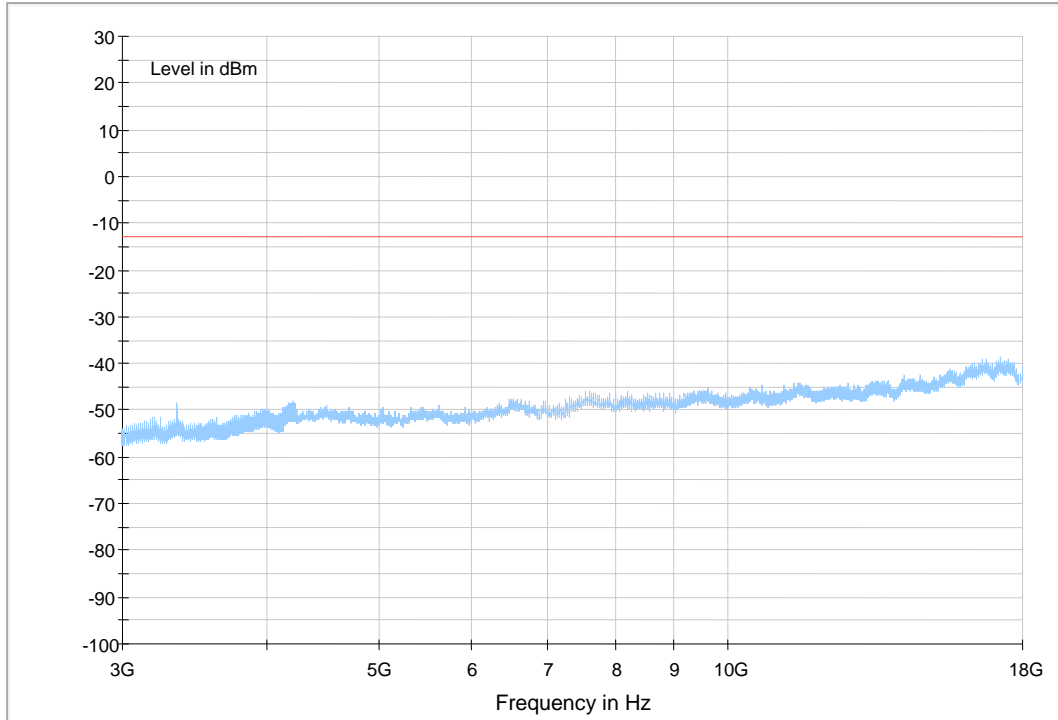


(30MHz~3GHz)



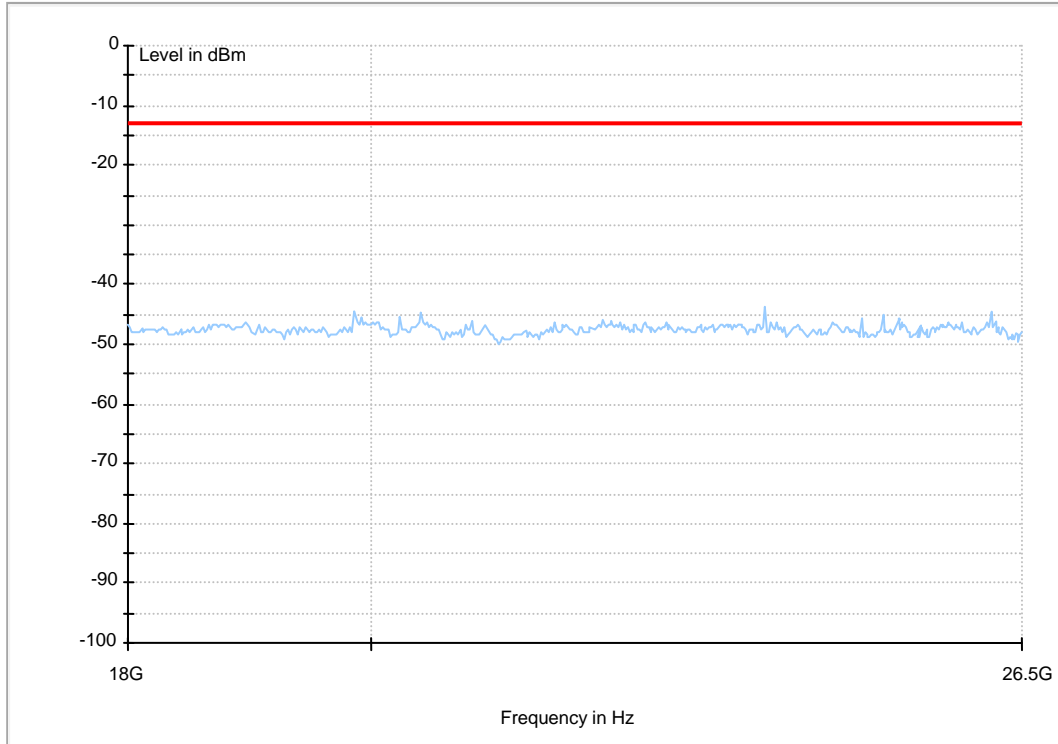


(3GHz~18GHz)





(18GHz-26.5GHz)

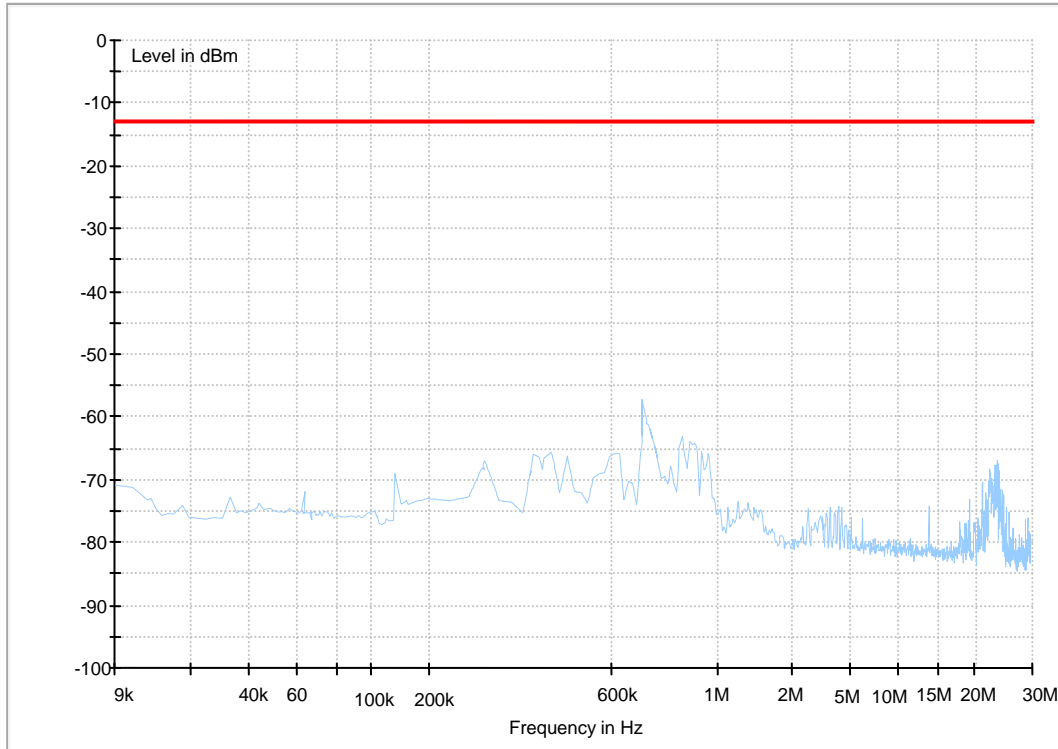






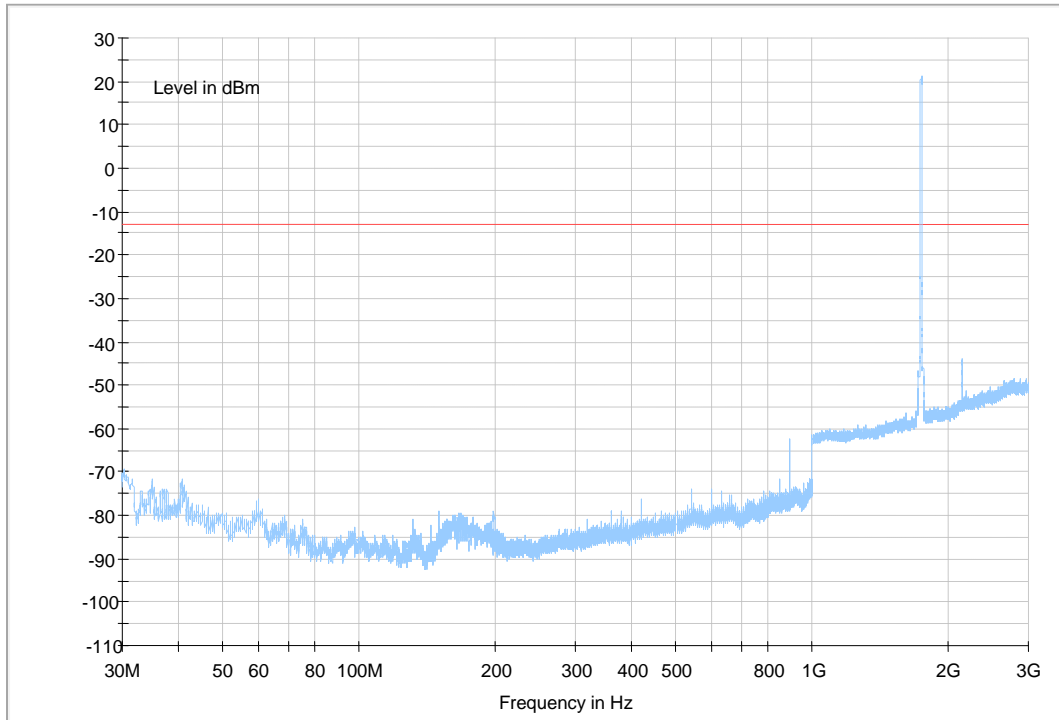
# HSDPA Band IV

(9KHz~30MHz)



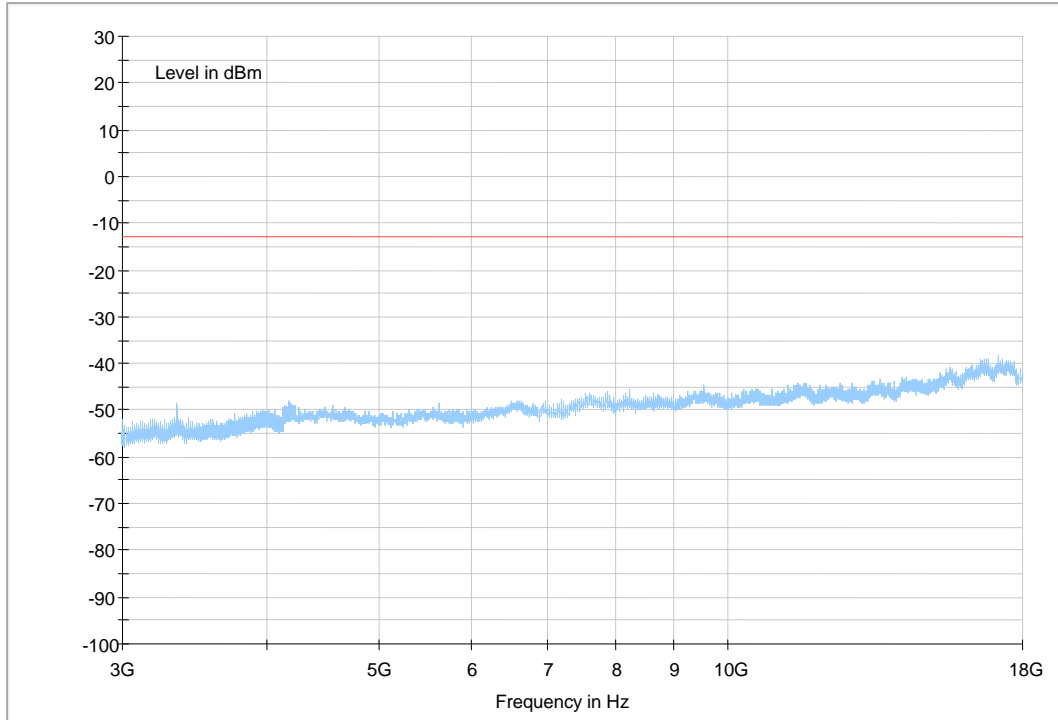


(30MHz~3GHz)



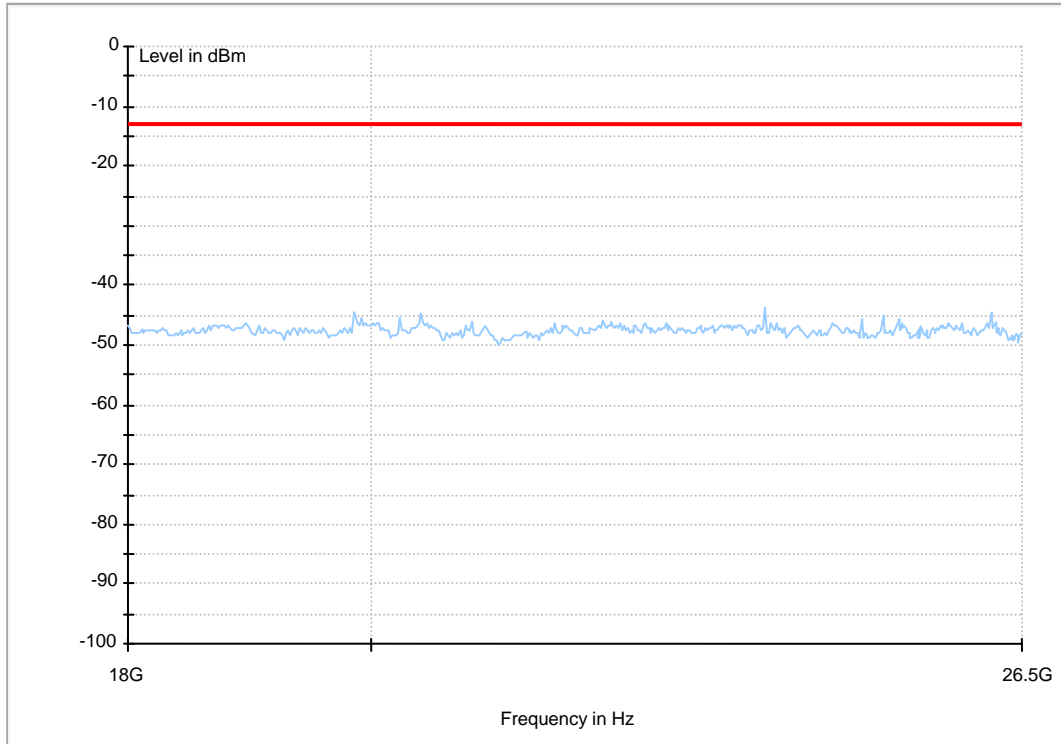


(3GHz~18GHz)





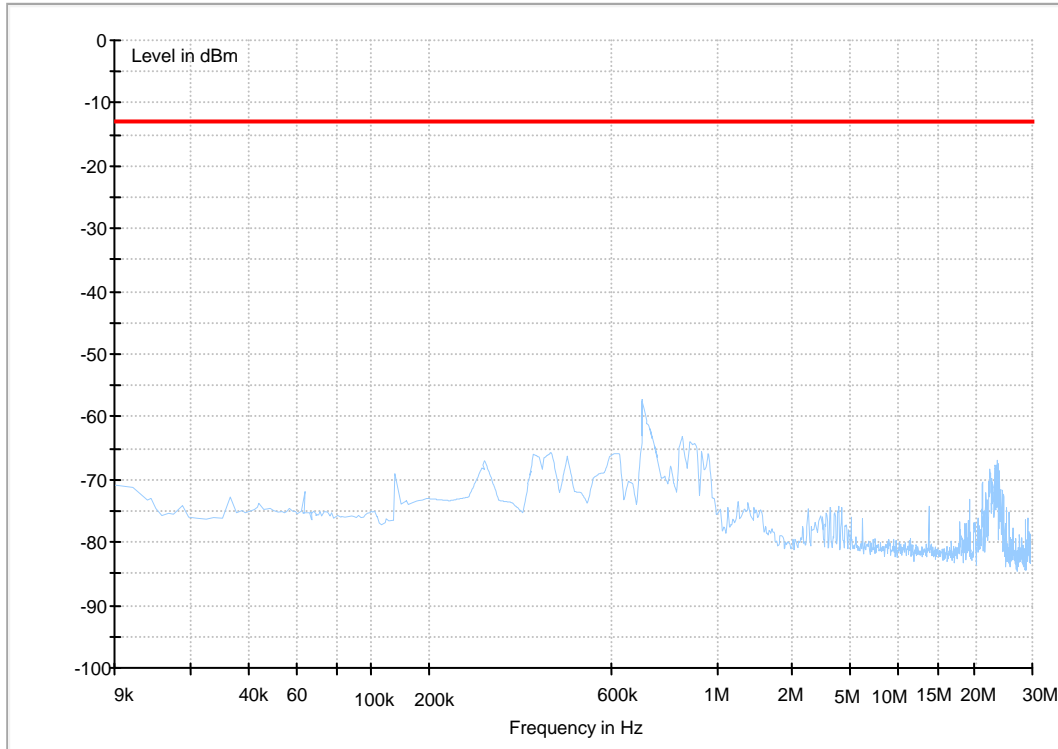
(18GHz-26.5GHz)





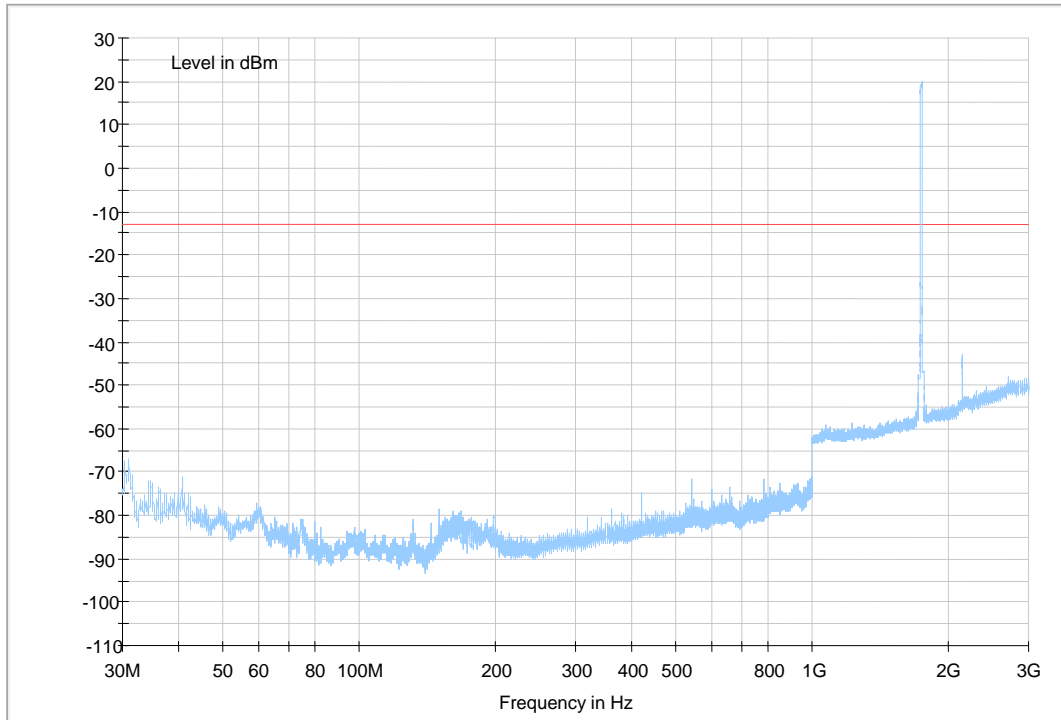
# HSUPA Band IV

(9KHz~30MHz)



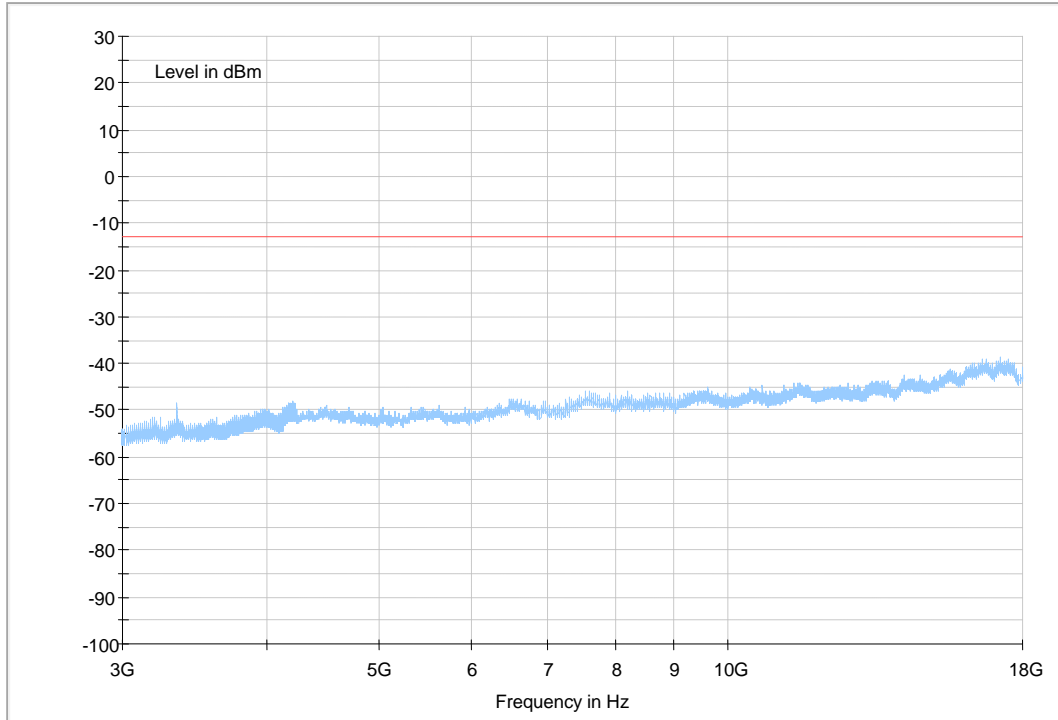


(30MHz~3GHz)



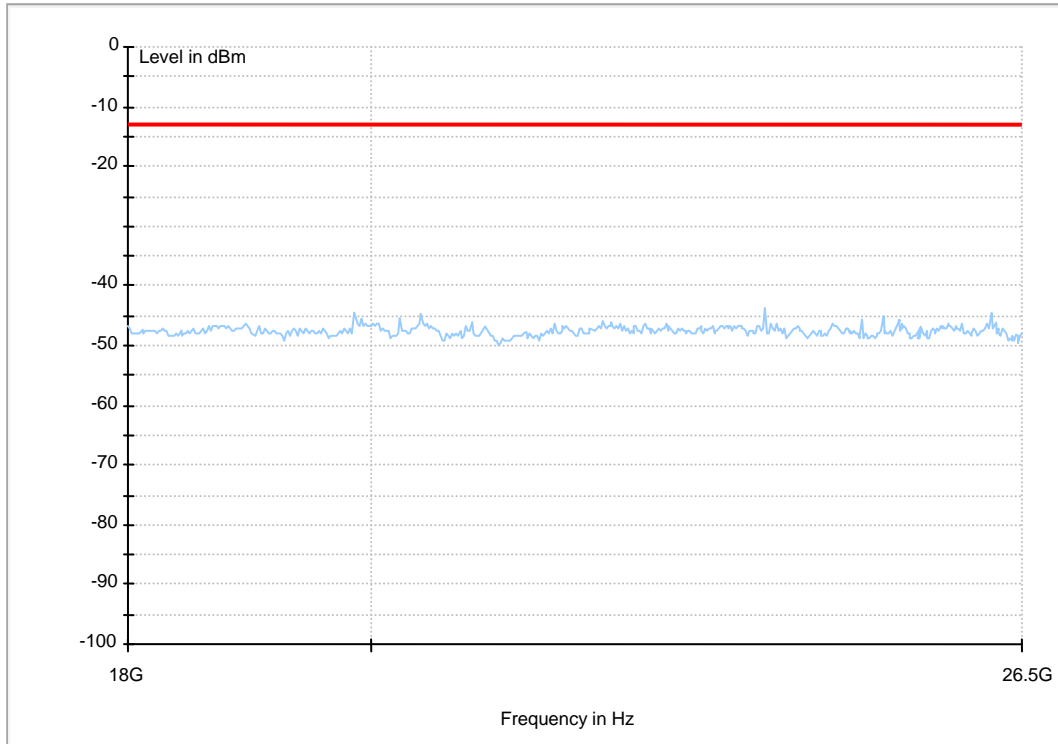


(3GHz~18GHz)





(18GHz-26.5GHz)

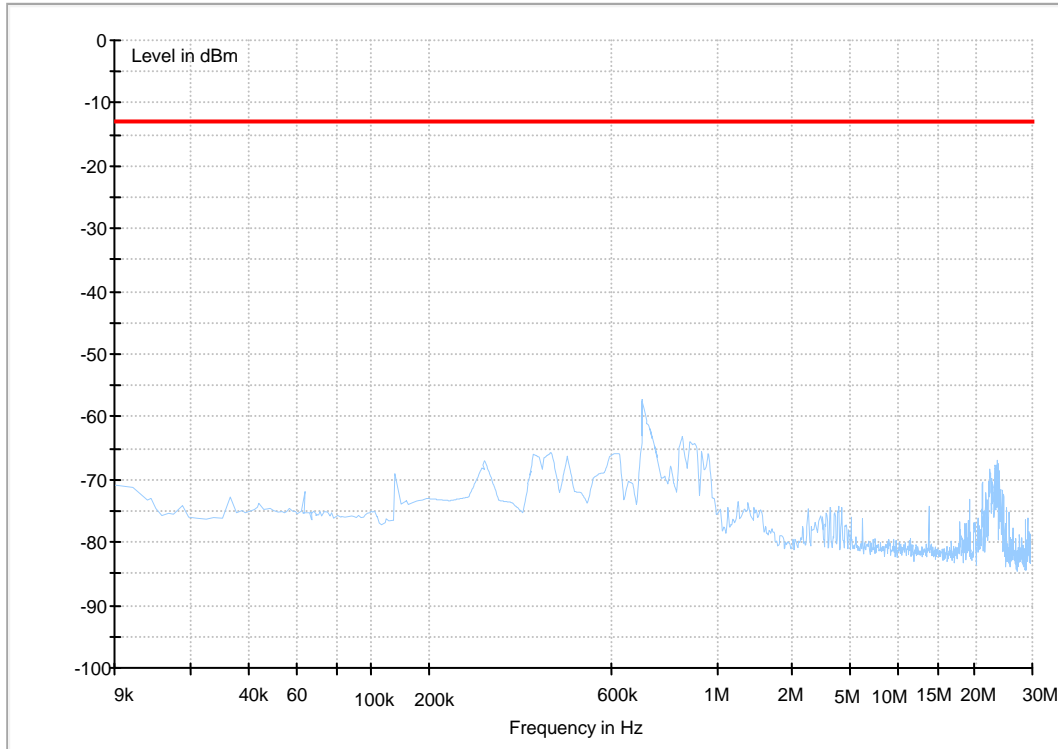






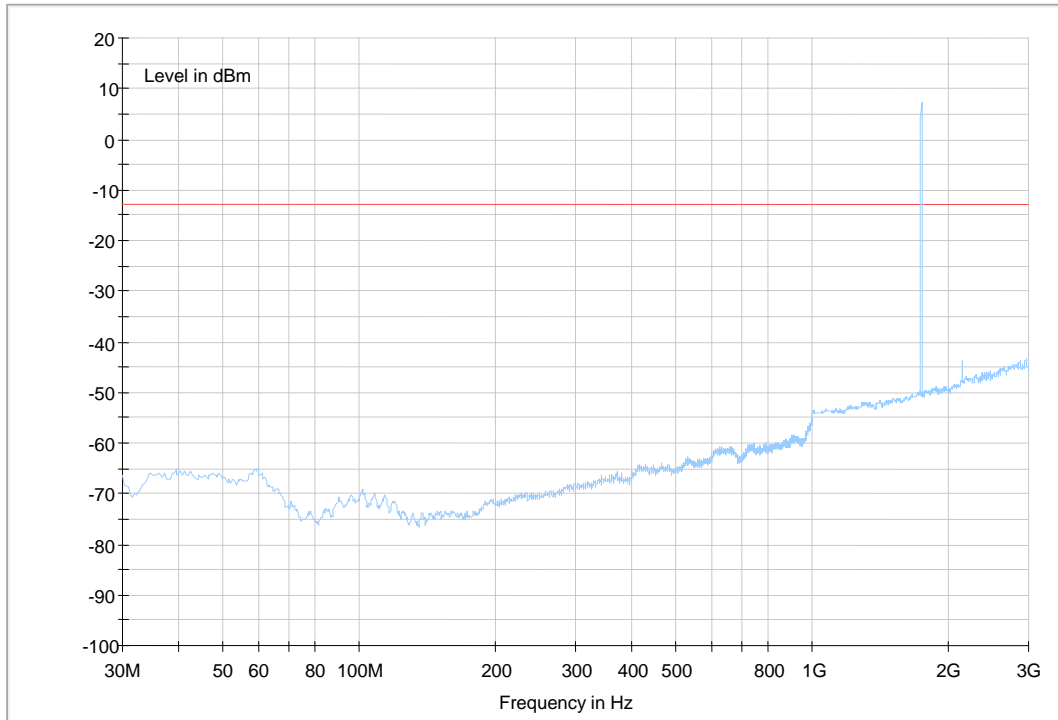
# LTE-Band4-1.4MHz

(9kHz~30MHz)





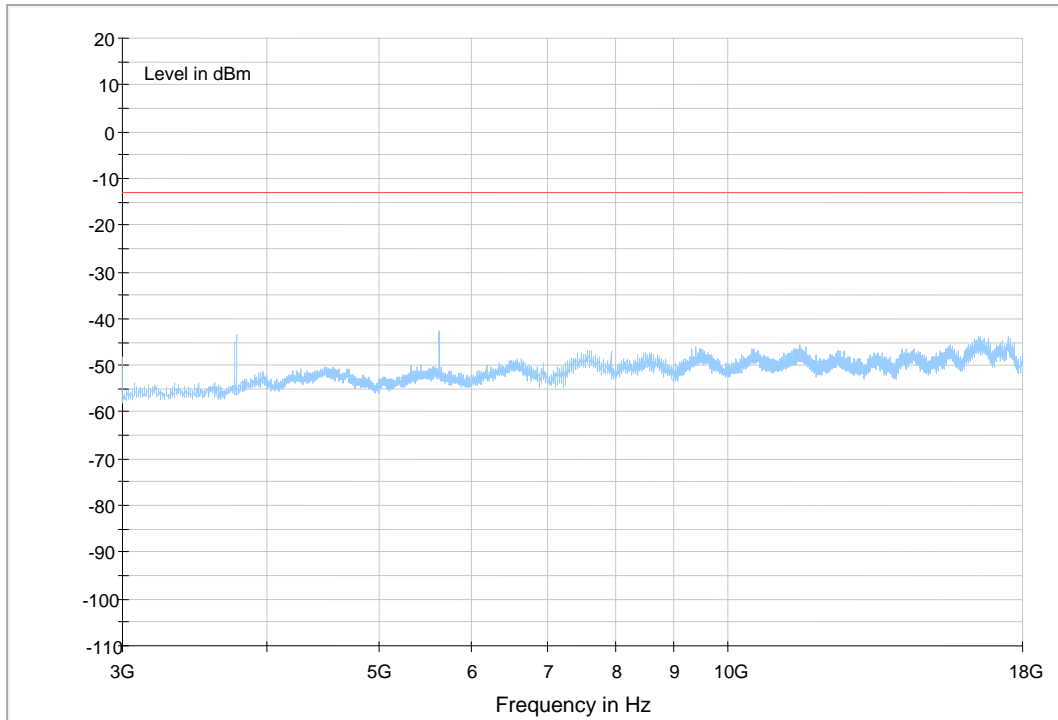
(30MHz~3GHz)





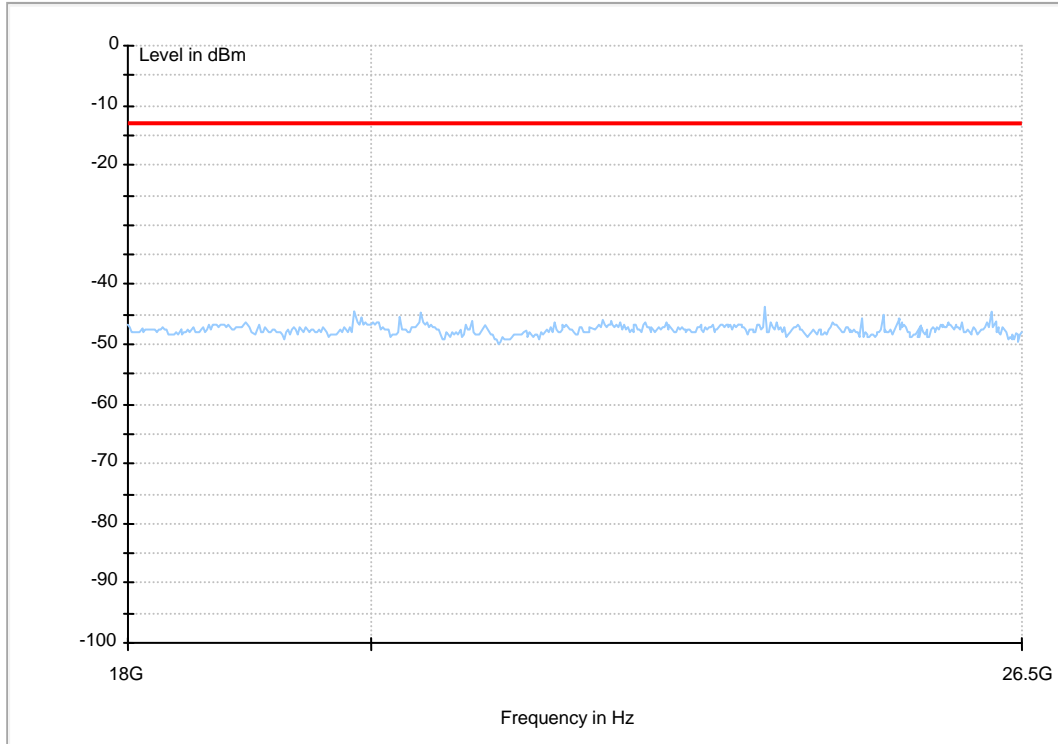
(3GHz~18GHz)

7





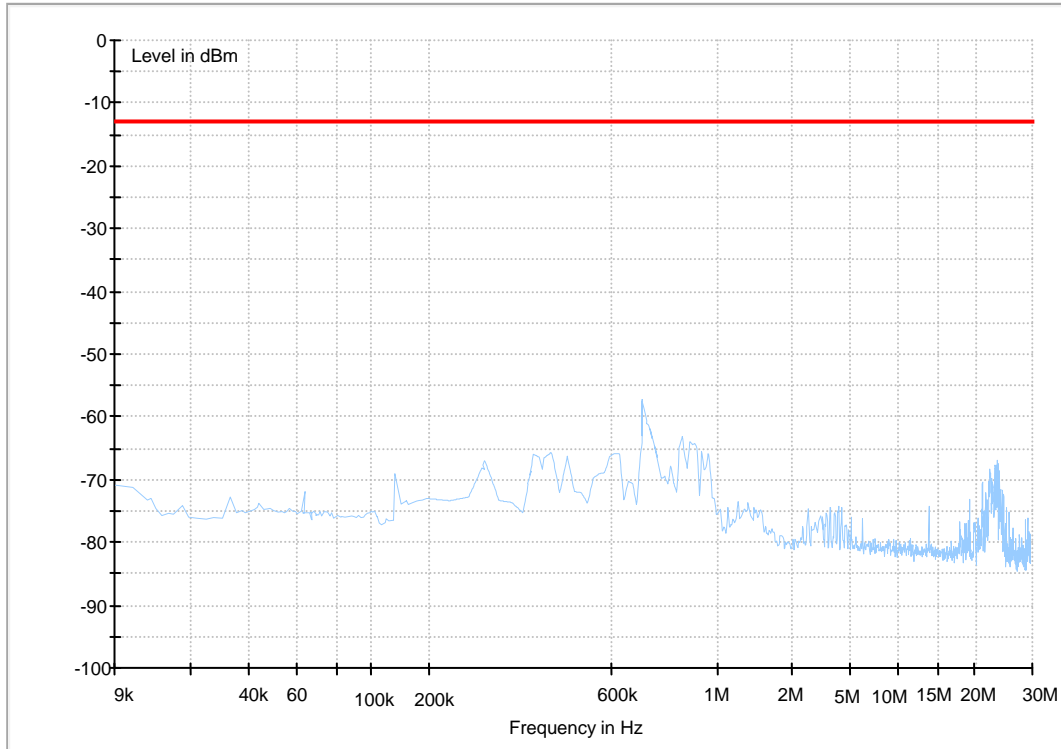
(18GHz~26.5GHz)





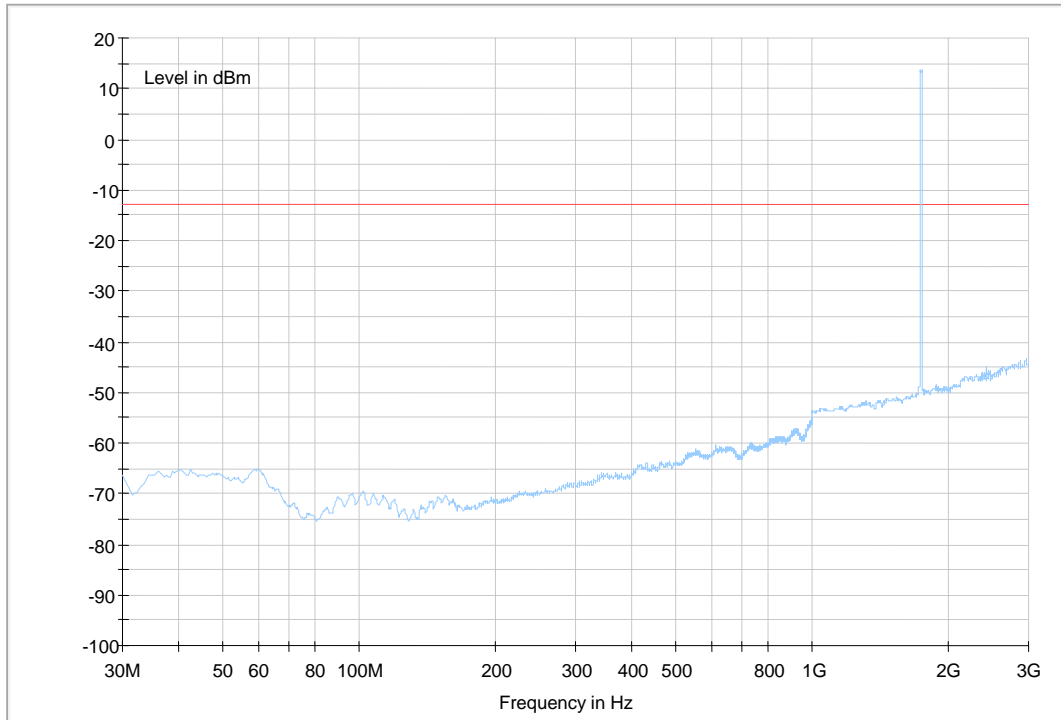
## LTE-Band4-5MHz

(9kHz~30MHz)



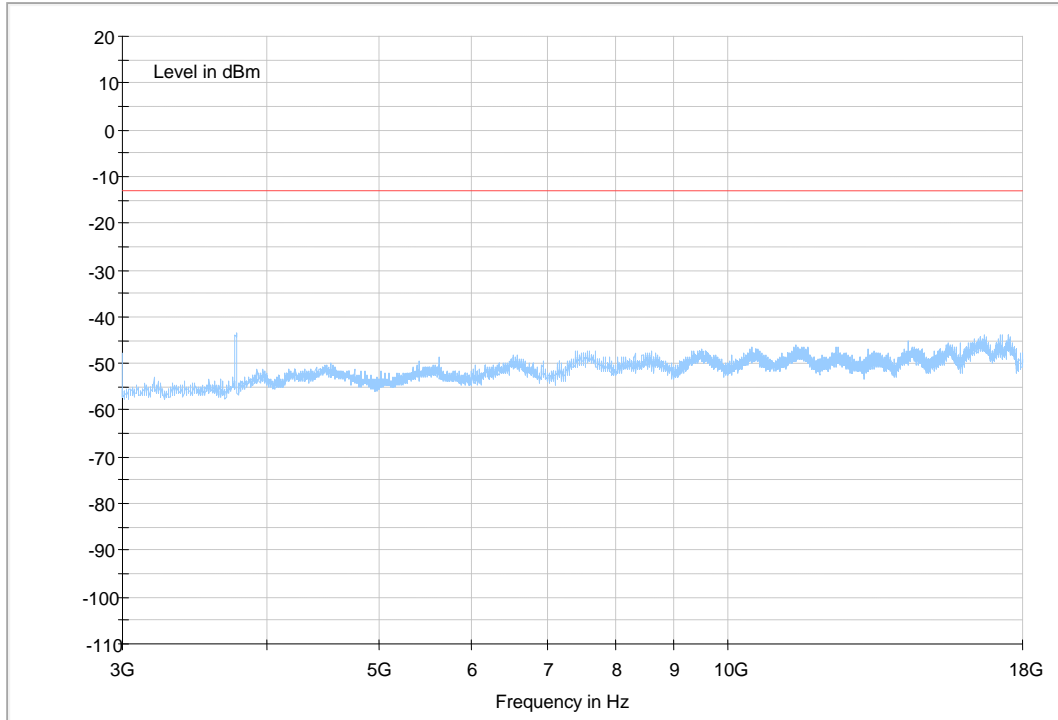


(30MHz~3GHz)



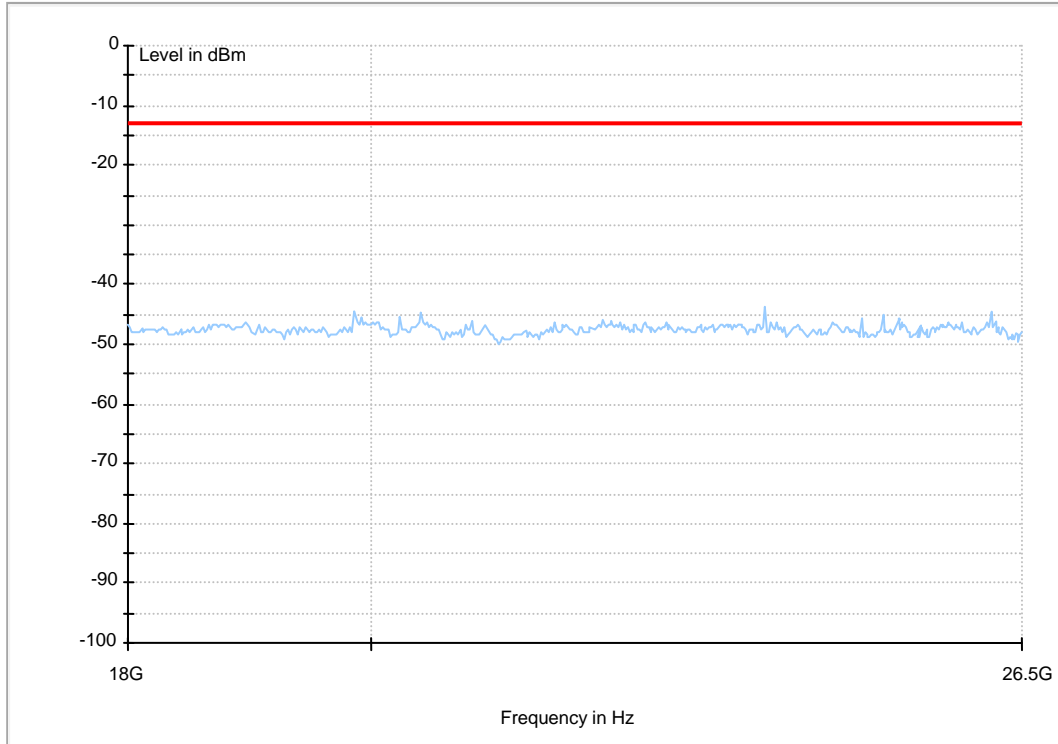


(3GHz~18GHz)





(18GHz~26.5GHz)

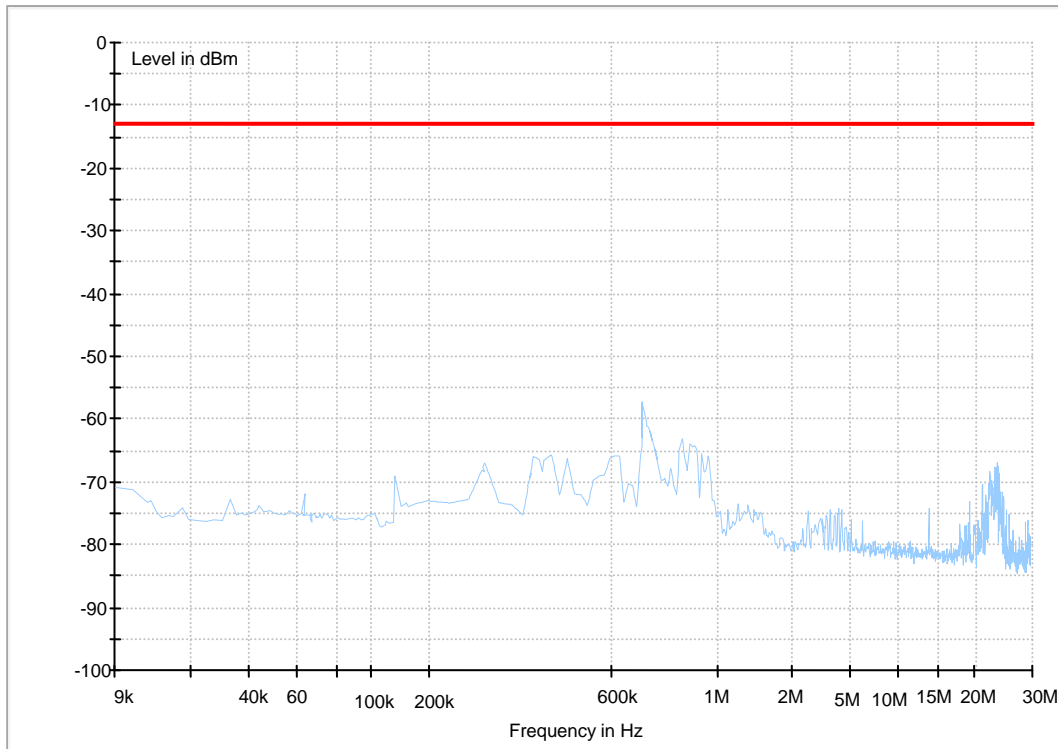






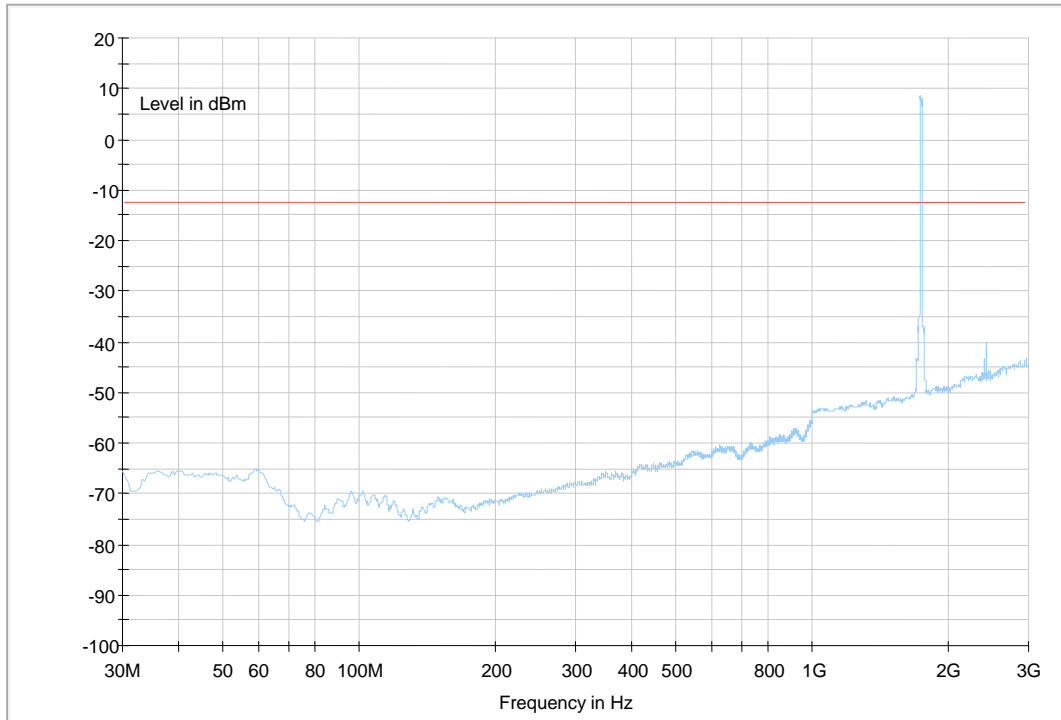
# LTE-Band4-20MHz

(9kHz~30MHz)



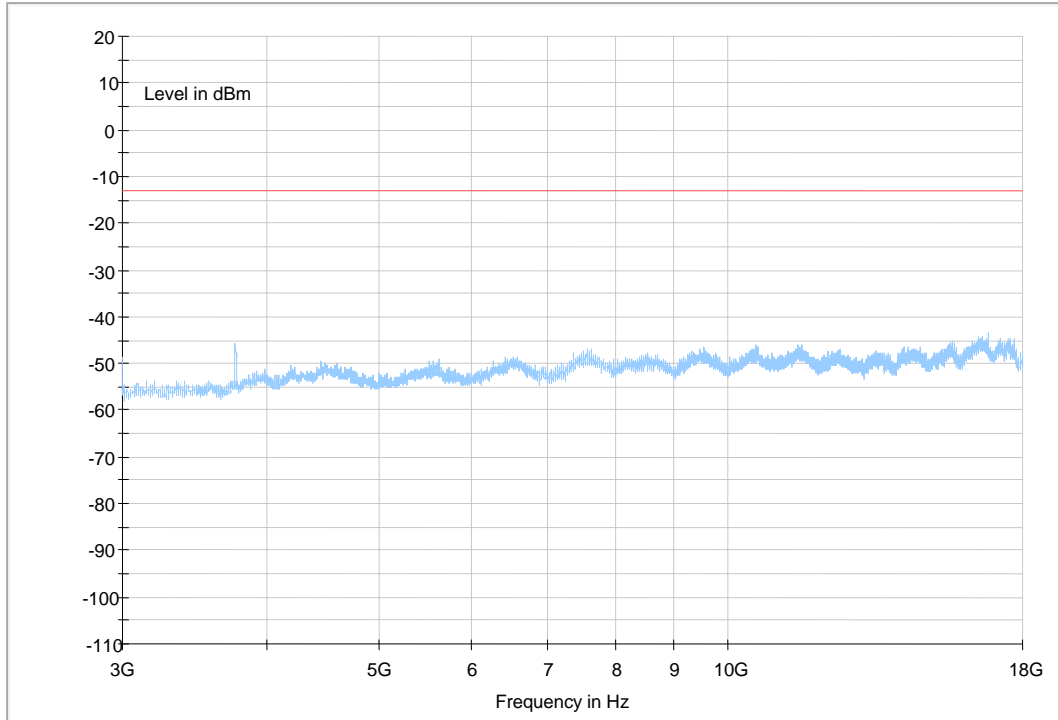


(30MHz~3GHz)



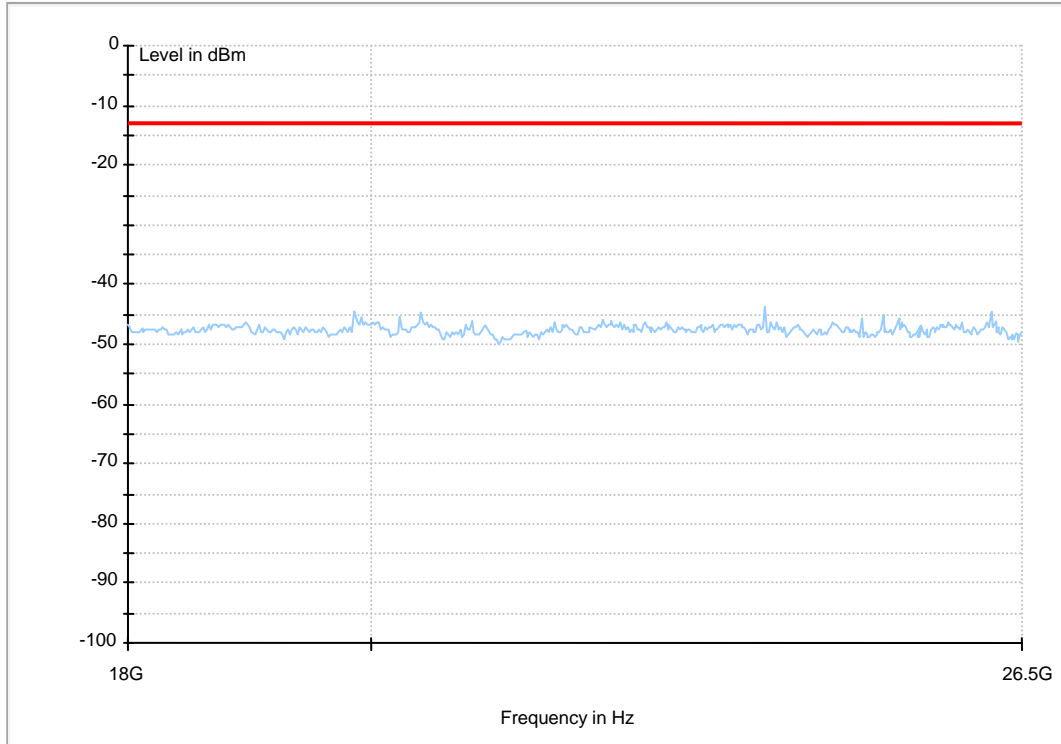


(3GHz~18GHz)





(18GHz~26.5GHz)



-----The END-----



FCC Test Report of B890-66  
FCC ID:QISB890  
IC: 6369A-B890



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# Appendix G

## Frequency Stability

According to FCC Part 2.1055 & Part 27.54 & RSS-139



## Frequency Error vs. Temperature:

Test Mode	RF Ch.	Volt.	Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM 1	M	VN	-30 °C	-24	-0.01385	---	±2.5	Pass
			-20 °C	23	0.01328	---	±2.5	Pass
			-10 °C	19	0.01097	---	±2.5	Pass
			0 °C	24	0.01385	---	±2.5	Pass
			10 °C	-18	-0.01039	---	±2.5	Pass
			20 °C	7	0.00404	---	±2.5	Pass
			30 °C	-12	-0.00693	---	±2.5	Pass
			40 °C	-18	-0.01039	---	±2.5	Pass
TM4(1.4 M)	M	VN	-30 °C	-14	-0.00808	---	±2.5	Pass
			-20 °C	25	0.01443	---	±2.5	Pass
			-10 °C	22	0.01270	---	±2.5	Pass
			0 °C	-25	-0.01443	---	±2.5	Pass
			10 °C	-8	-0.00462	---	±2.5	Pass
			20 °C	14	0.00808	---	±2.5	Pass
			30 °C	13	0.00750	---	±2.5	Pass
			40 °C	-7	-0.00404	---	±2.5	Pass
TM4(3M)	M	VN	-30 °C	-20	-0.01154	---	±2.5	Pass
			-20 °C	-12	-0.00693	---	±2.5	Pass
			-10 °C	27	0.01558	---	±2.5	Pass
			0 °C	8	0.00462	---	±2.5	Pass
			10 °C	28	0.01616	---	±2.5	Pass
			20 °C	-7	-0.00404	---	±2.5	Pass
			30 °C	-12	-0.00693	---	±2.5	Pass
			40 °C	-10	-0.00577	---	±2.5	Pass
TM4(5M)	M	VN	-30 °C	20	0.01154	---	±2.5	Pass
			-20 °C	24	0.01385	---	±2.5	Pass
			-10 °C	-16	-0.00924	---	±2.5	Pass
			0 °C	-17	-0.00981	---	±2.5	Pass
			10 °C	23	0.01328	---	±2.5	Pass
			20 °C	19	0.01097	---	±2.5	Pass
			30 °C	21	0.01212	---	±2.5	Pass
			40 °C	-25	-0.01443	---	±2.5	Pass
TM4(10)	M	VN	-30 °C	-22	-0.01270	---	±2.5	Pass



M)			-20 °C	-16	-0.00924	---	±2.5	Pass
			-10 °C	-18	-0.01039	---	±2.5	Pass
			0 °C	20	0.01154	---	±2.5	Pass
			10 °C	13	0.00750	---	±2.5	Pass
			20 °C	26	0.01501	---	±2.5	Pass
			30 °C	10	0.00577	---	±2.5	Pass
			40 °C	-9	-0.00519	---	±2.5	Pass
			50 °C	24	0.01385	---	±2.5	Pass
TM4(15 M)	M	VN	-30 °C	-7	-0.00404	---	±2.5	Pass
			-20 °C	21	0.01212	---	±2.5	Pass
			-10 °C	19	0.01097	---	±2.5	Pass
			0 °C	-22	-0.01270	---	±2.5	Pass
			10 °C	-9	-0.00519	---	±2.5	Pass
			20 °C	10	0.00577	---	±2.5	Pass
			30 °C	8	0.00462	---	±2.5	Pass
			40 °C	10	0.00577	---	±2.5	Pass
TM4(20 M)	M	VN	50 °C	-19	-0.01097	---	±2.5	Pass
			-30 °C	-14	-0.00808	---	±2.5	Pass
			-20 °C	-24	-0.01385	---	±2.5	Pass
			-10 °C	19	0.01097	---	±2.5	Pass
			0 °C	25	0.01443	---	±2.5	Pass
			10 °C	10	0.00577	---	±2.5	Pass
			20 °C	22	0.01270	---	±2.5	Pass
			30 °C	25	0.01443	---	±2.5	Pass
40 °C	-15	-0.00866	---	±2.5	Pass			
			50 °C	-21	-0.01212	---	±2.5	Pass



## Frequency Error vs. Voltage:

Test Mode	RF Ch.	Temp.	Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM 1	M	20 °C	VL	-15	-0.00866	---	±2.5	Pass
			VN	-15	-0.00866	---	±2.5	Pass
			VH	15	0.00866	---	±2.5	Pass
TM4(1.4 M)	M	20 °C	VL	14	0.00808	---	±2.5	Pass
			VN	9	0.00519	---	±2.5	Pass
			VH	15	0.00866	---	±2.5	Pass
TM4(3M)	M	20 °C	VL	-23	-0.01328	---	±2.5	Pass
			VN	-15	-0.00866	---	±2.5	Pass
			VH	-19	-0.01097	---	±2.5	Pass
TM4(5M)	M	20 °C	VL	-11	-0.00635	---	±2.5	Pass
			VN	11	0.00635	---	±2.5	Pass
			VH	17	0.00981	---	±2.5	Pass
TM4(10 M)	M	20 °C	VL	-12	-0.00693	---	±2.5	Pass
			VN	14	0.00808	---	±2.5	Pass
			VH	23	0.01328	---	±2.5	Pass
TM4(15 M)	M	20 °C	VL	-24	-0.01385	---	±2.5	Pass
			VN	16	0.00924	---	±2.5	Pass
			VH	-13	-0.00750	---	±2.5	Pass
TM4(20 M)	M	20 °C	VL	-11	-0.00635	---	±2.5	Pass
			VN	-16	-0.00924	---	±2.5	Pass
			VH	-12	-0.00693	---	±2.5	Pass

-----The END-----





FCC Test Report of B890-66  
FCC ID:QISB890  
IC: 6369A-B890



# Appendix H

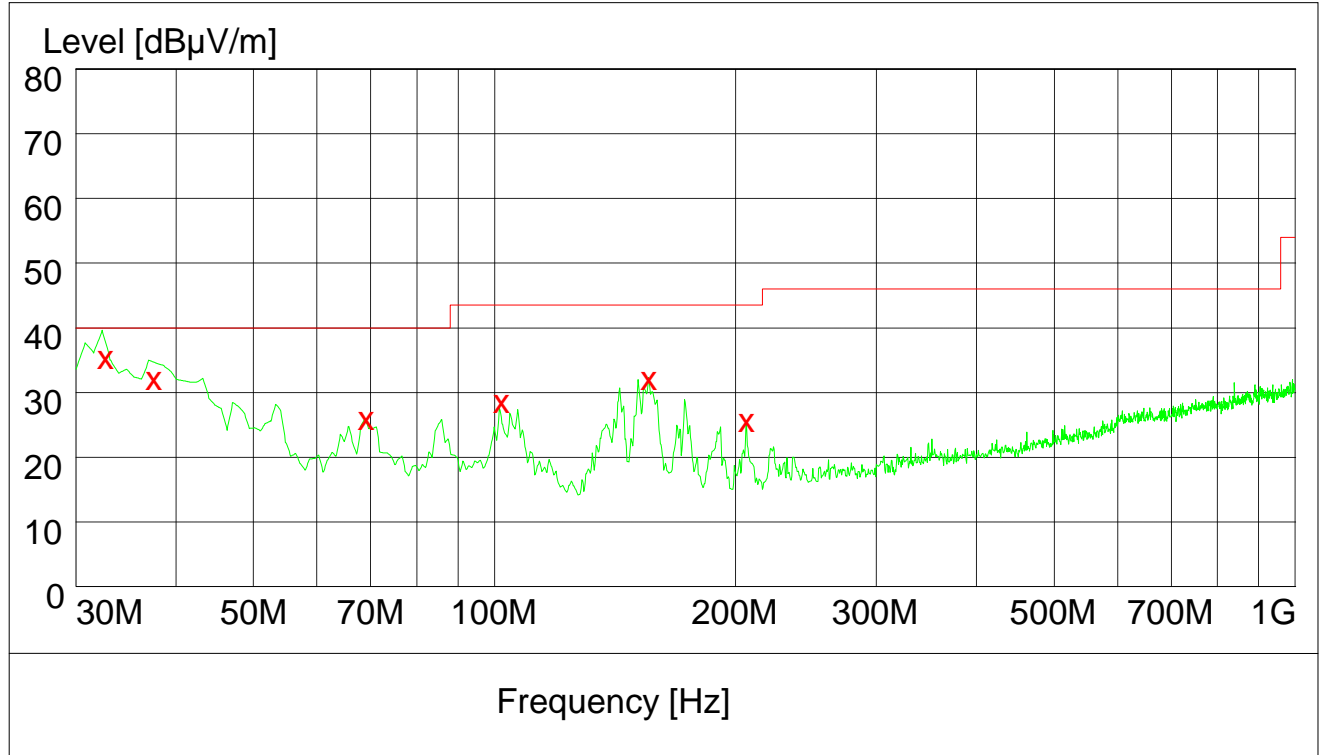
## Receiver Spurious Emissions

According to RSS-139



This test was carried out in all the test modes, Here only the worst test result was shown.

**30MHz-1GHz**

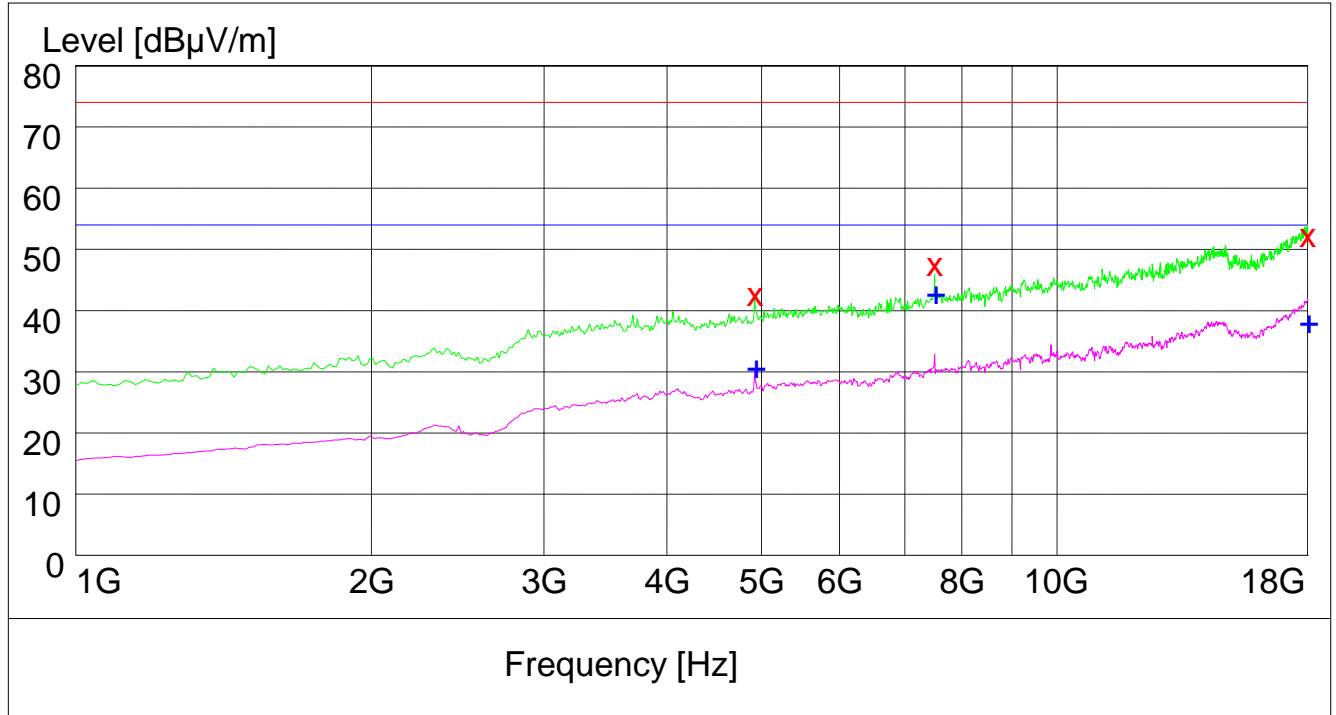


**MEASUREMENT RESULT: QP Detector**

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
32.640000	35.80	14.7	40.0	4.2	100.0	359.00	VERTICAL
37.500000	32.50	15.2	40.0	7.5	114.0	341.00	VERTICAL
69.120000	26.60	11.1	40.0	13.4	136.0	85.00	VERTICAL
101.880000	28.00	13.4	43.5	15.5	109.0	263.00	VERTICAL
155.640000	31.90	10.0	43.5	11.6	100.0	84.00	VERTICAL
206.220000	26.30	12.4	43.5	17.2	163.0	326.00	HORIZONTAL



**1GHz-18GHz**



**MEASUREMENT RESULT: PK Detector**

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
4923.800000	42.80	-2.5	74.0	31.2	100.0	46.00	VERTICAL
7500.300000	48.00	3.7	74.0	26.0	100.0	318.00	HORIZONTAL
17992.400000	52.00	19.4	74.0	22.0	100.0	280.00	HORIZONTAL

**MEASUREMENT RESULT: AV Detector**

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
4923.800000	31.20	-2.5	54.0	22.8	100.0	24.00	VERTICAL
7500.300000	43.60	3.7	54.0	10.4	100.0	316.00	HORIZONTAL
17993.500000	38.20	19.4	54.0	15.8	100.0	216.00	VERTICAL

-----The END-----