



Appendix A

Transmitter Output Power

According to FCC Part 2.1046 & FCC Part 27.50(c)



Conducted Power of Transmitter

Table 1 Measurement Results (LTE) BAND 17

TM1 & TM2 RF Output Power(Conducted) BAND 17				
Test Mode	TN/VN			
	Modulation	RB	Measured (dBm)	Limit (dBm)
Channel (B) 5MHz(BW)	QPSK	1RB#0	23.84	34.8
		1RB#max	23.58	34.8
		12RB#6	22.76	34.8
		Full	22.53	34.8
	16QAM	1RB#0	22.86	34.8
		1RB#max	22.72	34.8
		12RB#6	21.75	34.8
		Full	21.49	34.8
Channel (B) 10MHz(BW)	QPSK	1RB#0	23.68	34.8
		1RB#max	23.45	34.8
		25RB#13	22.54	34.8
		Full	22.42	34.8
	16QAM	1RB#0	22.86	34.8
		1RB#max	22.62	34.8
		25RB#13	21.47	34.8
		Full	21.34	34.8
Channel (M) 5MHz(BW)	QPSK	1RB#0	23.57	34.8
		1RB#max	23.78	34.8
		12RB#6	22.73	34.8
		Full	22.54	34.8
	16QAM	1RB#0	22.73	34.8
		1RB#max	22.80	34.8
		12RB#6	21.66	34.8
		Full	21.47	34.8
Channel (M) 10MHz(BW)	QPSK	1RB#0	23.67	34.8
		1RB#max	23.73	34.8
		25RB#13	22.52	34.8
		Full	22.40	34.8
	16QAM	1RB#0	22.82	34.8
		1RB#max	22.87	34.8
		25RB#13	21.48	34.8



		Full	21.31	34.8
Channel (T) 5MHz(BW)	QPSK	1RB#0	23.57	34.8
		1RB#max	23.69	34.8
		12RB#6	22.65	34.8
		Full	22.50	34.8
	16QAM	1RB#0	22.75	34.8
		1RB#max	22.78	34.8
		12RB#6	21.74	34.8
		Full	21.48	34.8
Channel (T) 10MHz(BW)	QPSK	1RB#0	23.70	34.8
		1RB#max	23.74	34.8
		25RB#13	22.58	34.8
		Full	22.45	34.8
	16QAM	1RB#0	22.83	34.8
		1RB#max	22.87	34.8
		25RB#13	21.51	34.8
		Full	21.30	34.8

Note: RBW > emission bandwidth, VBW > 3 x RBW.



Peak-to-Average Ratio

Table 2 Measurement Results (LTE) BAND 17

Peak-to-Average Ratio				
Test Mode	TN/VN			
	Modulation	RB	Measured (dB)	Limit (dB)
Channel (B) 5MHz(BW)	QPSK	1RB#0	5.32	13
		1RB#max	5.25	13
		12RB#6	5.16	13
		Full	5.35	13
	16QAM	1RB#0	6.05	13
		1RB#max	6.08	13
		12RB#6	6.13	13
		Full	6.28	13
Channel (B) 10MHz(BW)	QPSK	1RB#0	5.22	13
		1RB#max	5.26	13
		25RB#13	5.32	13
		Full	5.18	13
	16QAM	1RB#0	6.25	13
		1RB#max	6.38	13
		25RB#13	6.14	13
		Full	6.18	13
Channel (M) 5MHz(BW)	QPSK	1RB#0	5.35	13
		1RB#max	5.27	13
		12RB#6	5.16	13
		Full	5.31	13
	16QAM	1RB#0	6.07	13
		1RB#max	6.06	13
		12RB#6	6.17	13
		Full	6.28	13
Channel (M) 10MHz(BW)	QPSK	1RB#0	5.23	13
		1RB#max	5.27	13
		25RB#13	5.39	13
		Full	5.11	13
	16QAM	1RB#0	6.25	13
		1RB#max	6.37	13



		25RB#13	6.16	13
		Full	6.19	13
Channel (T) 5MHz(BW)	QPSK	1RB#0	5.32	13
		1RB#max	5.34	13
		12RB#6	5.37	13
		Full	5.23	13
	16QAM	1RB#0	6.24	13
		1RB#max	6.38	13
		12RB#6	6.11	13
		Full	6.16	13
Channel (T) 10MHz(BW)	QPSK	1RB#0	5.28	13
		1RB#max	5.27	13
		25RB#13	5.34	13
		Full	5.13	13
	16QAM	1RB#0	6.27	13
		1RB#max	6.33	13
		25RB#13	6.11	13
		Full	6.13	13

Effective Radiated Power of Transmitter (ERP)

Table 3 Substitution Results (LTE) BAND 17

Test Mode			Meas. Level [dBm]	Substitution Antenna Type	SGP[dBm]	Substitution Gain [dbd]	Cable Loss [dB]	Substitution Level (ERP) [dBm]	FCC limit [dBm]	Result
Channel	Modulation	RB								
Channel (B) 5MHz(BW)	QPSK	1 RB/#0	20.69	Horn Ant.	23.90	-2.75	0.6	20.55	34.8	Pass
		1 RB/#max	20.43	Horn Ant.	23.64	-2.75	0.6	20.29	34.8	Pass
		12 RB/#6	19.61	Horn Ant.	22.82	-2.75	0.6	19.47	34.8	Pass
		Full	19.38	Horn Ant.	22.59	-2.75	0.6	19.24	34.8	Pass
	16QAM	1 RB/#0	19.71	Horn Ant.	22.92	-2.75	0.6	19.57	34.8	Pass
		1 RB/#max	19.57	Horn Ant.	22.78	-2.75	0.6	19.43	34.8	Pass
		12 RB/#6	18.60	Horn Ant.	21.81	-2.75	0.6	18.46	34.8	Pass
		Full	18.34	Horn Ant.	21.55	-2.75	0.6	18.20	34.8	Pass
Channel (B) 10MHz(BW)	QPSK	1 RB/#0	20.53	Horn Ant.	23.74	-2.75	0.6	20.39	34.8	Pass
		1 RB/#max	20.30	Horn Ant.	23.51	-2.75	0.6	20.16	34.8	Pass
		25 RB/#13	19.39	Horn Ant.	22.60	-2.75	0.6	19.25	34.8	Pass
		Full	19.27	Horn Ant.	22.48	-2.75	0.6	19.13	34.8	Pass
	16QAM	1 RB/#0	19.71	Horn Ant.	22.92	-2.75	0.6	19.57	34.8	Pass
		1 RB/#max	19.47	Horn Ant.	22.68	-2.75	0.6	19.33	34.8	Pass
		25 RB/#13	18.32	Horn Ant.	21.53	-2.75	0.6	18.18	34.8	Pass



		Full	18.19	Horn Ant.	21.40	-2.75	0.6	18.05	34.8	Pass
Channel (M) 5MHz(BW)	QPSK	1 RB/#0	20.42	Horn Ant.	23.75	-2.87	0.6	20.28	34.8	Pass
		1 RB/#max	20.63	Horn Ant.	23.96	-2.87	0.6	20.49	34.8	Pass
		12 RB/#6	19.58	Horn Ant.	22.91	-2.87	0.6	19.44	34.8	Pass
		Full	19.39	Horn Ant.	22.72	-2.87	0.6	19.25	34.8	Pass
	16QAM	1 RB/#0	19.58	Horn Ant.	22.91	-2.87	0.6	19.44	34.8	Pass
		1 RB/#max	19.65	Horn Ant.	22.98	-2.87	0.6	19.51	34.8	Pass
		12 RB/#6	18.51	Horn Ant.	21.84	-2.87	0.6	18.37	34.8	Pass
		Full	18.32	Horn Ant.	21.65	-2.87	0.6	18.18	34.8	Pass
Channel (M) 10MHz(BW)	QPSK	1 RB/#0	20.52	Horn Ant.	23.85	-2.87	0.6	20.38	34.8	Pass
		1 RB/#max	20.58	Horn Ant.	23.91	-2.87	0.6	20.44	34.8	Pass
		25 RB/#13	19.37	Horn Ant.	22.70	-2.87	0.6	19.23	34.8	Pass
		Full	19.25	Horn Ant.	22.58	-2.87	0.6	19.11	34.8	Pass
	16QAM	1 RB/#0	19.67	Horn Ant.	23.00	-2.87	0.6	19.53	34.8	Pass
		1 RB/#max	19.72	Horn Ant.	23.05	-2.87	0.6	19.58	34.8	Pass
		25 RB/#13	18.33	Horn Ant.	21.66	-2.87	0.6	18.19	34.8	Pass
		Full	18.16	Horn Ant.	21.49	-2.87	0.6	18.02	34.8	Pass
Channel (T) 5MHz(BW)	QPSK	1 RB/#0	20.42	Horn Ant.	23.73	-2.85	0.6	20.28	34.8	Pass
		1 RB/#max	20.54	Horn Ant.	23.85	-2.85	0.6	20.40	34.8	Pass



		12 RB/#6	19.50	Horn Ant.	22.81	-2.85	0.6	19.36	34.8	Pass
		Full	19.35	Horn Ant.	22.66	-2.85	0.6	19.21	34.8	Pass
	16QAM	1 RB/#0	19.60	Horn Ant.	22.91	-2.85	0.6	19.46	34.8	Pass
		1 RB/#max	19.63	Horn Ant.	22.94	-2.85	0.6	19.49	34.8	Pass
		12 RB/#6	18.59	Horn Ant.	21.90	-2.85	0.6	18.45	34.8	Pass
		Full	18.33	Horn Ant.	21.64	-2.85	0.6	18.19	34.8	Pass
Channel (T) 10MHz(BW)	QPSK	1 RB/#0	20.55	Horn Ant.	23.86	-2.85	0.6	20.41	34.8	Pass
		1 RB/#max	20.59	Horn Ant.	23.90	-2.85	0.6	20.45	34.8	Pass
		25 RB/#13	19.43	Horn Ant.	22.74	-2.85	0.6	19.29	34.8	Pass
		Full	19.30	Horn Ant.	22.61	-2.85	0.6	19.16	34.8	Pass
	16QAM	1 RB/#0	19.68	Horn Ant.	22.99	-2.85	0.6	19.54	34.8	Pass
		1 RB/#max	19.72	Horn Ant.	23.03	-2.85	0.6	19.58	34.8	Pass
		25 RB/#13	18.36	Horn Ant.	21.67	-2.85	0.6	18.22	34.8	Pass
		Full	18.15	Horn Ant.	21.46	-2.85	0.6	18.01	34.8	Pass

Note1: a, For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dbd]}$$

b, SGP=Signal Generator Level

Note2: RBW > emission bandwidth, VBW > 3 x RBW.

-----END-----



Appendix B

Modulation Characteristics

According to FCC Part 2.1047& Part 27 Subpart C&M



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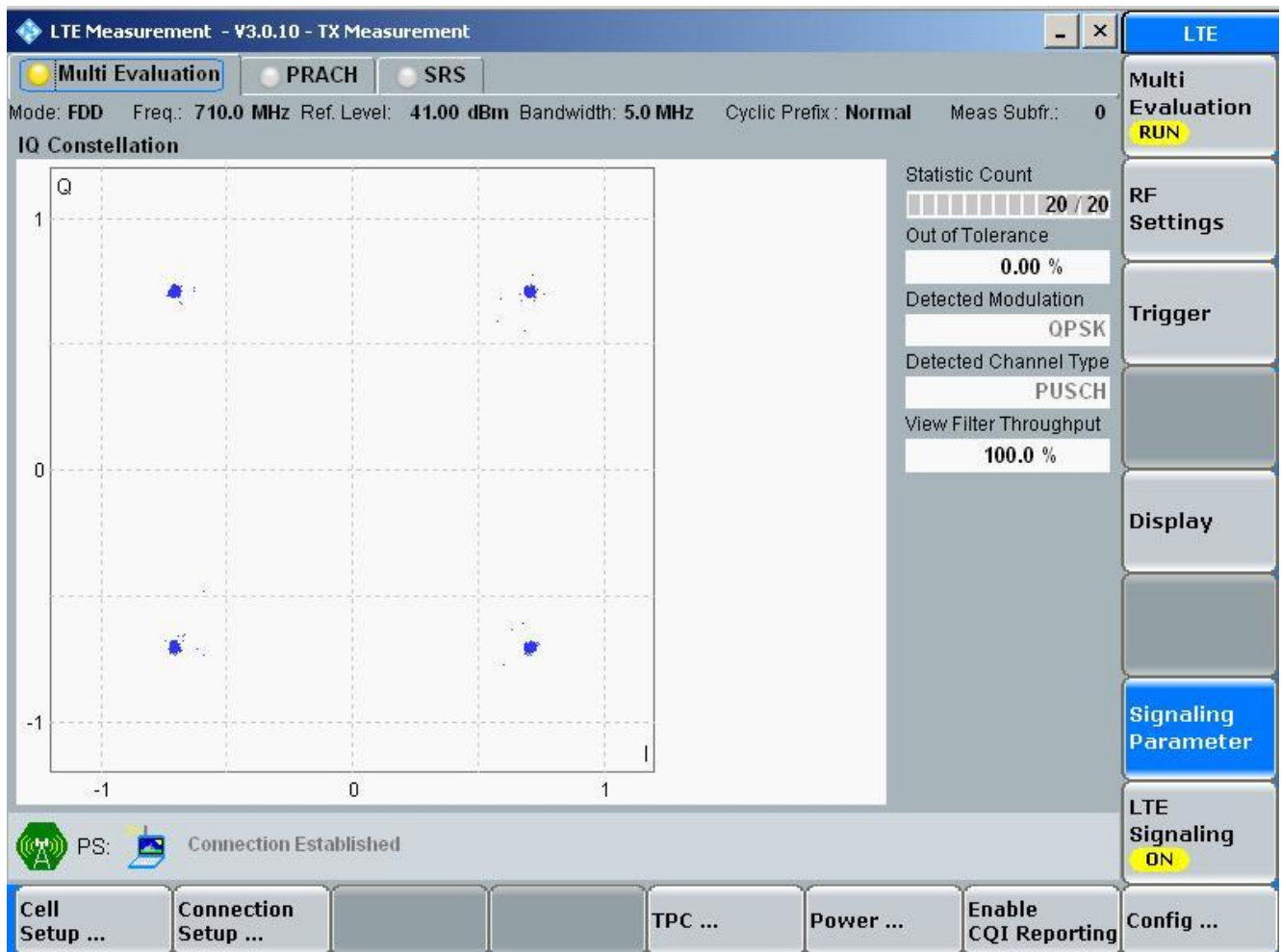
1 For Band 17

1.1 Test Mode=TM1

1.1.1 Channel Bandwidth = 5 MHz

1.1.1.1 Channel =M

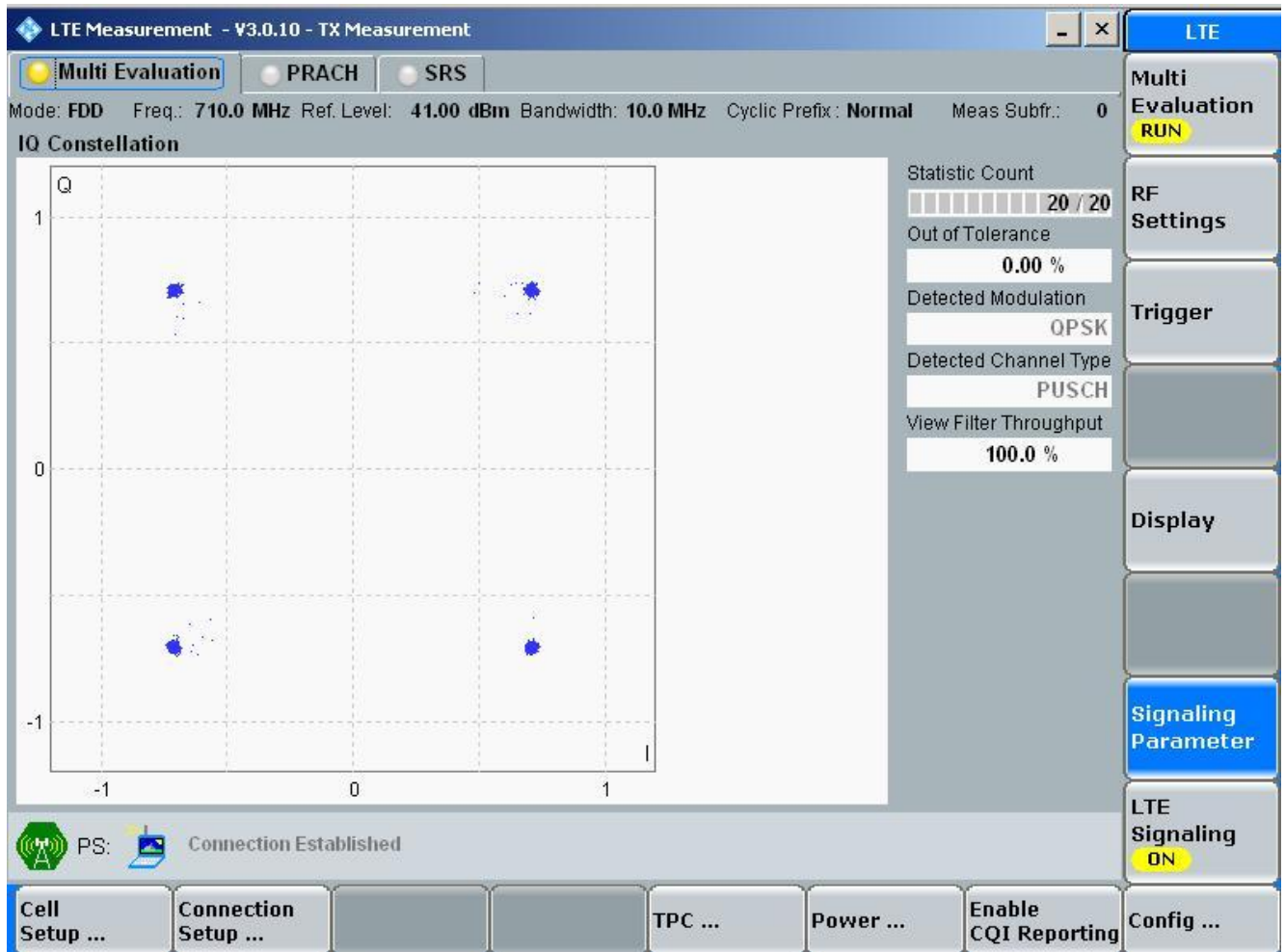
1.1.1.1.1 QPSK/full RBs



1.1.2 Channel Bandwidth = 10 MHz

1.1.2.1 Channel =M

1.1.2.1.1 QPSK/full RBs

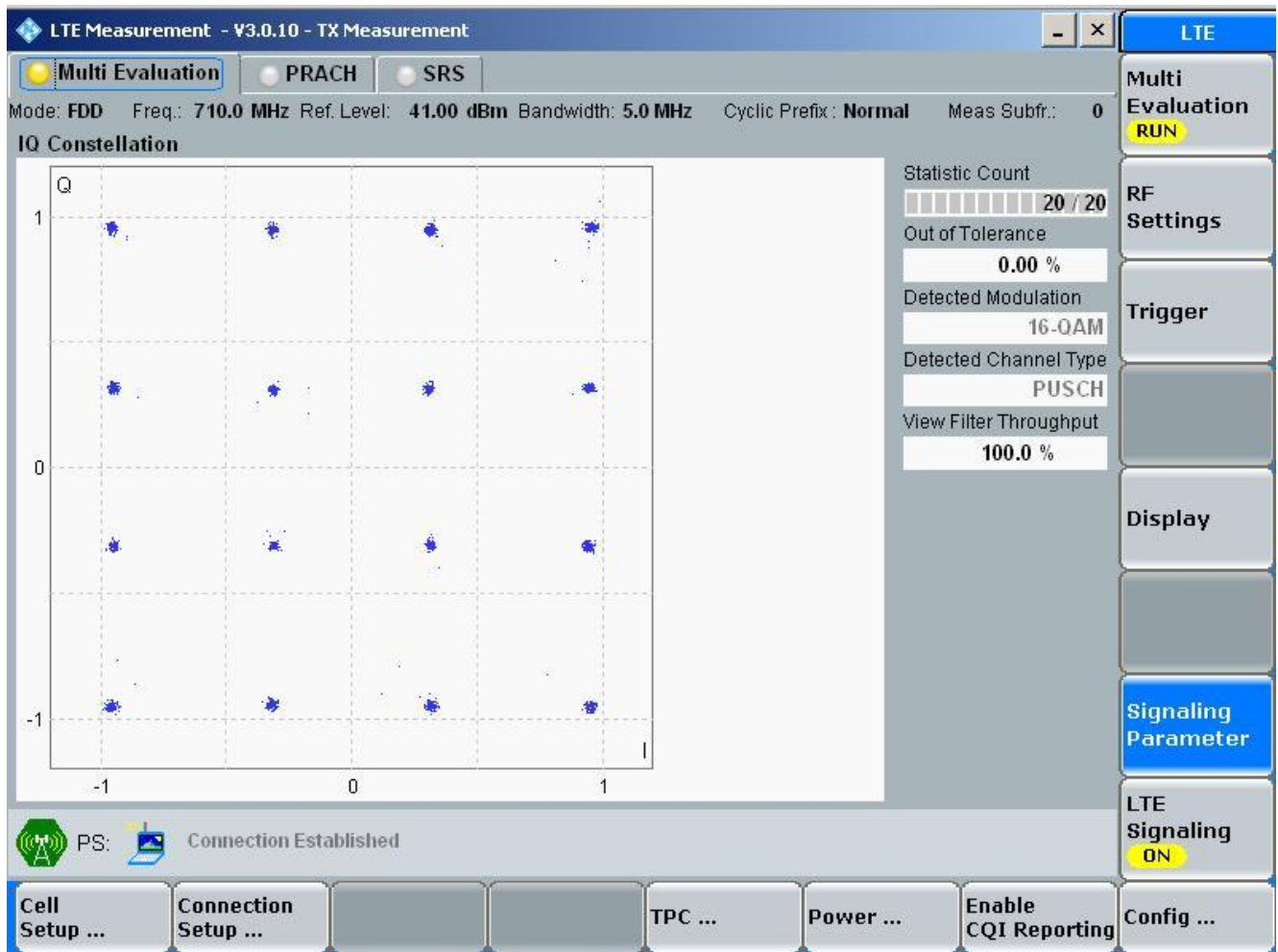


1.2 Test Mode=TM2

1.2.1 Channel Bandwidth = 5 MHz

1.2.1.1 Channel =M

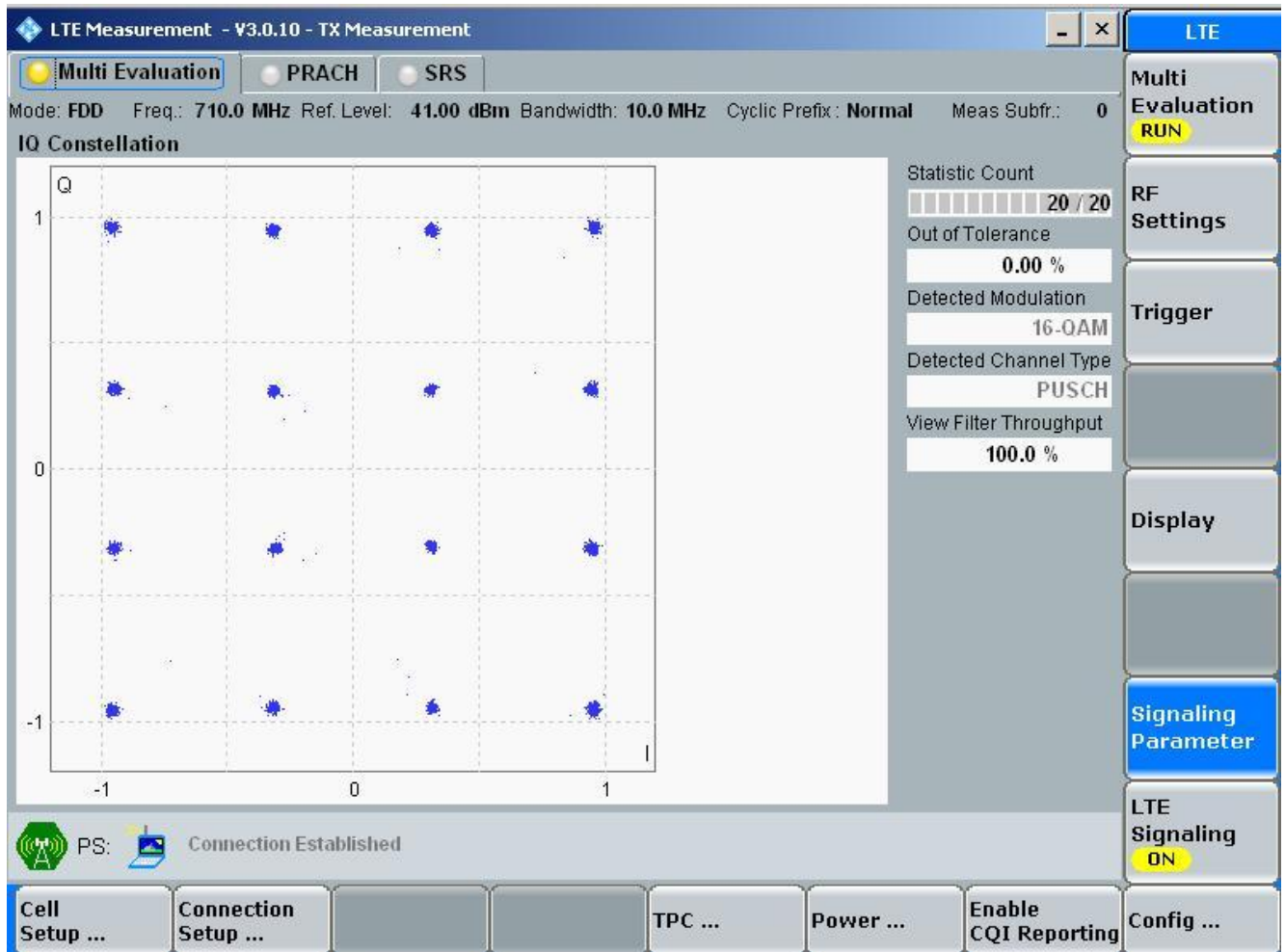
1.2.1.1.1 16QAM/full RBs



1.2.2 Channel Bandwidth = 10 MHz

1.2.2.1 Channel =M

1.2.2.1.1 16QAM/full RBs



-----END-----



Appendix C

Occupied Bandwidth

According to FCC part 2.1049 & Part 27 Subpart C&M



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Result Table

NOTE: All relevant operation modes have been tested, and the full RB data is included in this report.

Table 1 Measurement Results (LTE) BAND 17

Test Mode	Carrier Conf.	RF Ch.	Occupied Bandwidth [MHz]	Verdict
TM1	5 MHz	B	4.4634	Pass
		M	4.4677	Pass
		T	4.4603	Pass
	10 MHz	B	8.9376	Pass
		M	8.9573	Pass
		T	8.9378	Pass
TM2	5 MHz	B	4.4716	Pass
		M	4.4859	Pass
		T	4.4716	Pass
	10 MHz	B	8.9179	Pass
		M	8.9305	Pass
		T	8.9516	Pass



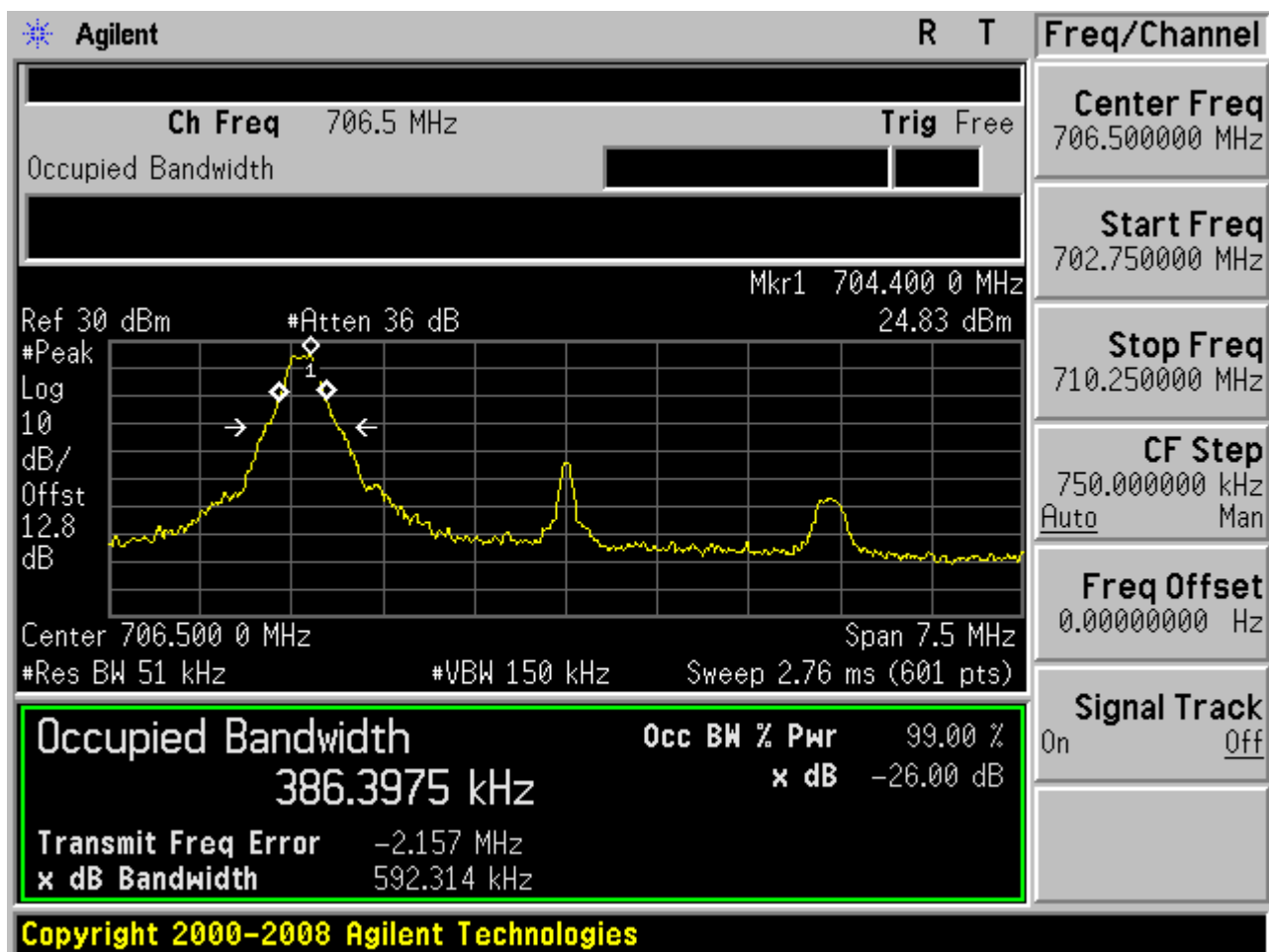
1 For Band 17

1.1 Test Mode=TM1

1.1.1 Channel Bandwidth = 5 MHz

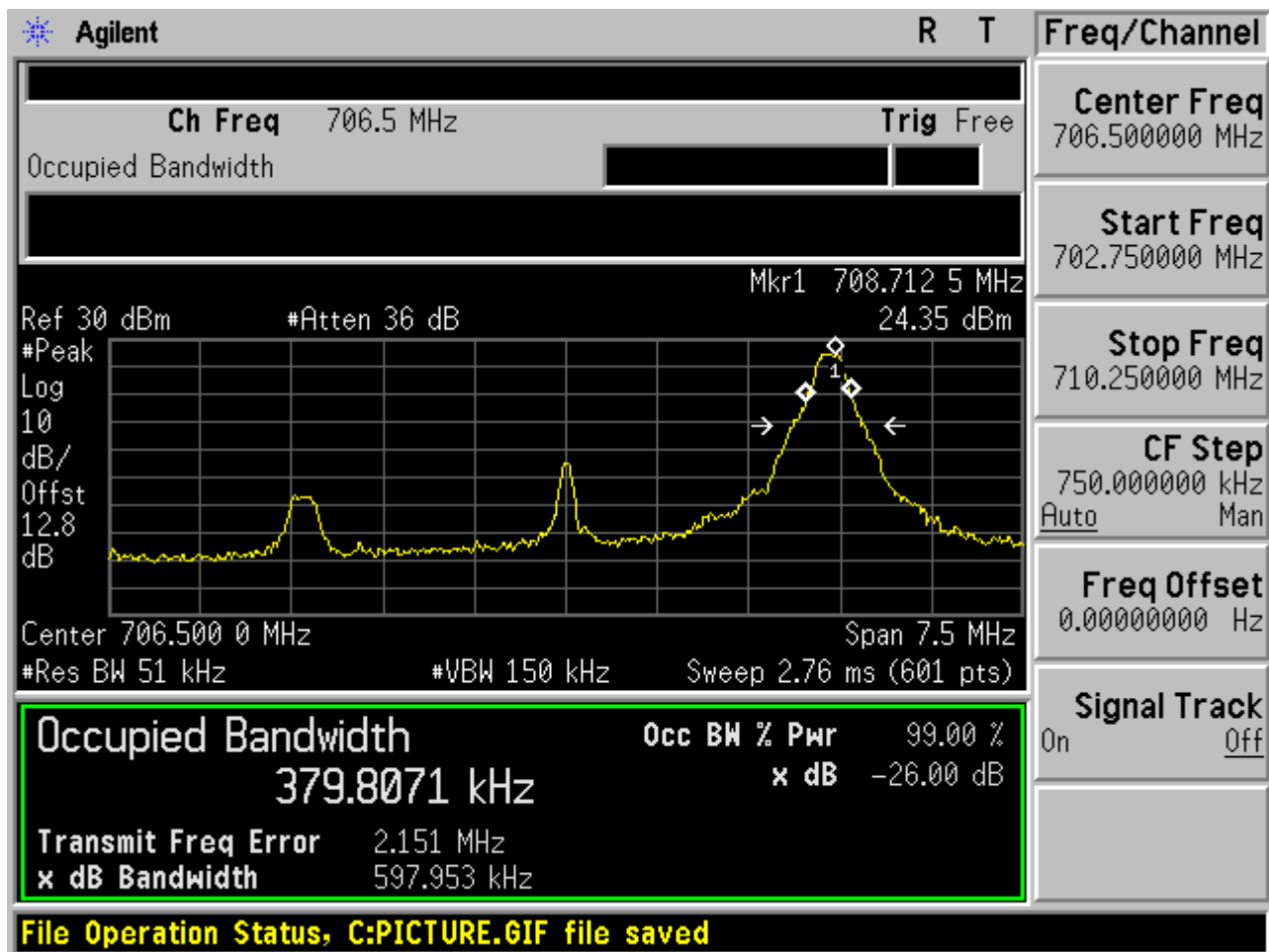
1.1.1.1 Channel = B

1.1.1.1.1 QPSK/1RB # 0



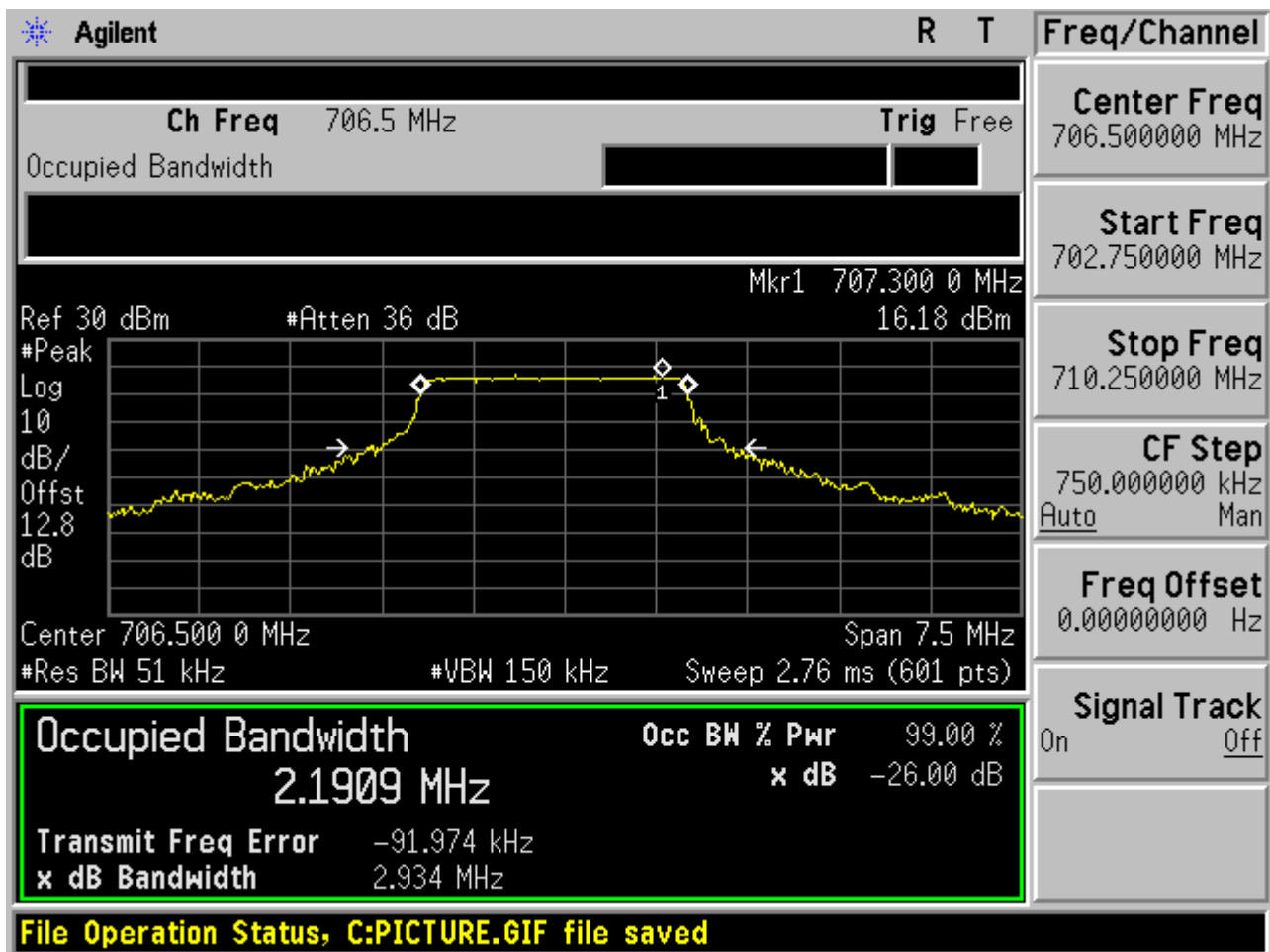


1.1.1.1.2 QPSK/1RB # max



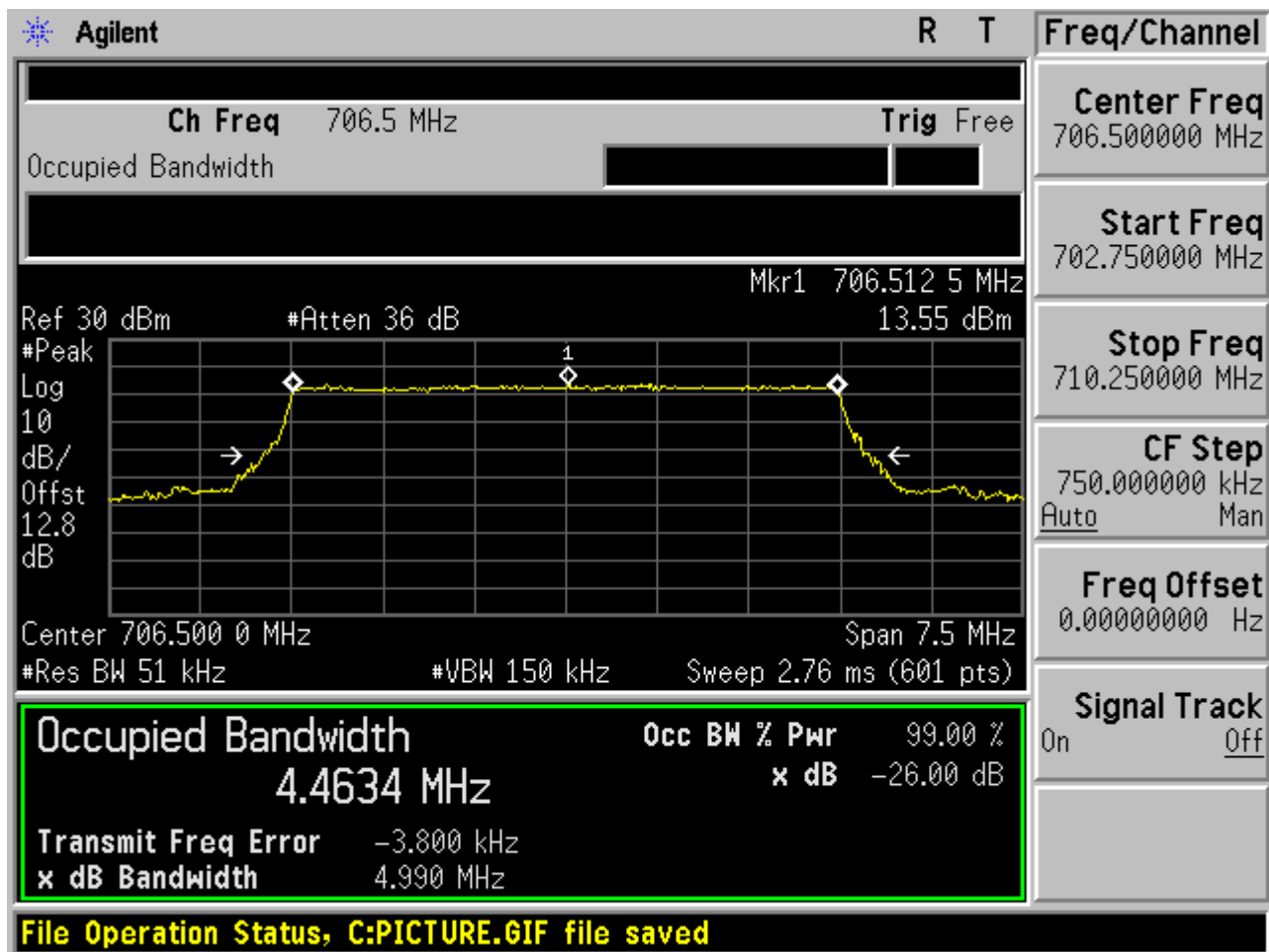


1.1.1.1.3 QPSK/non-1RB #mid/2





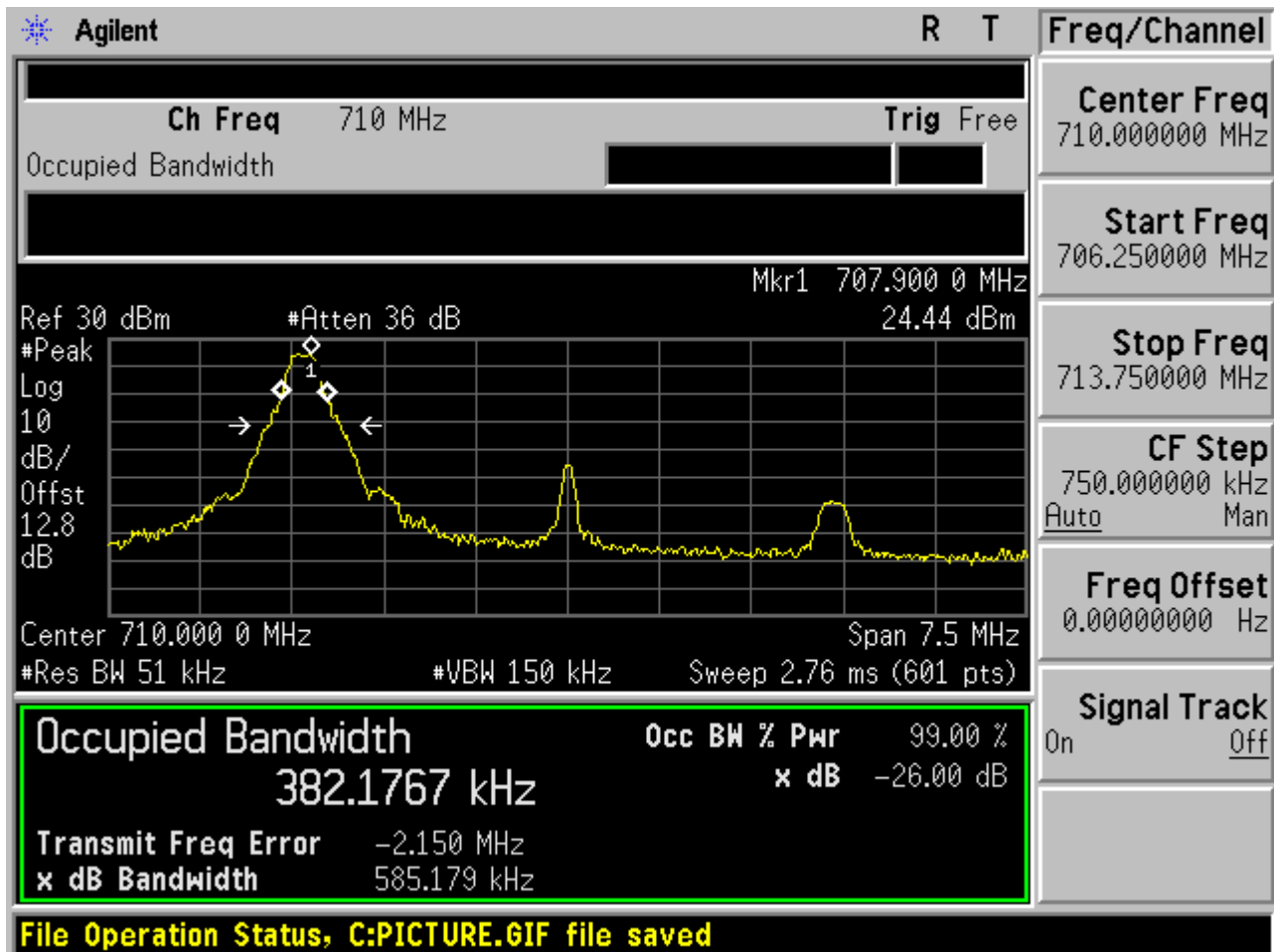
1.1.1.1.4 QPSK/full RBs





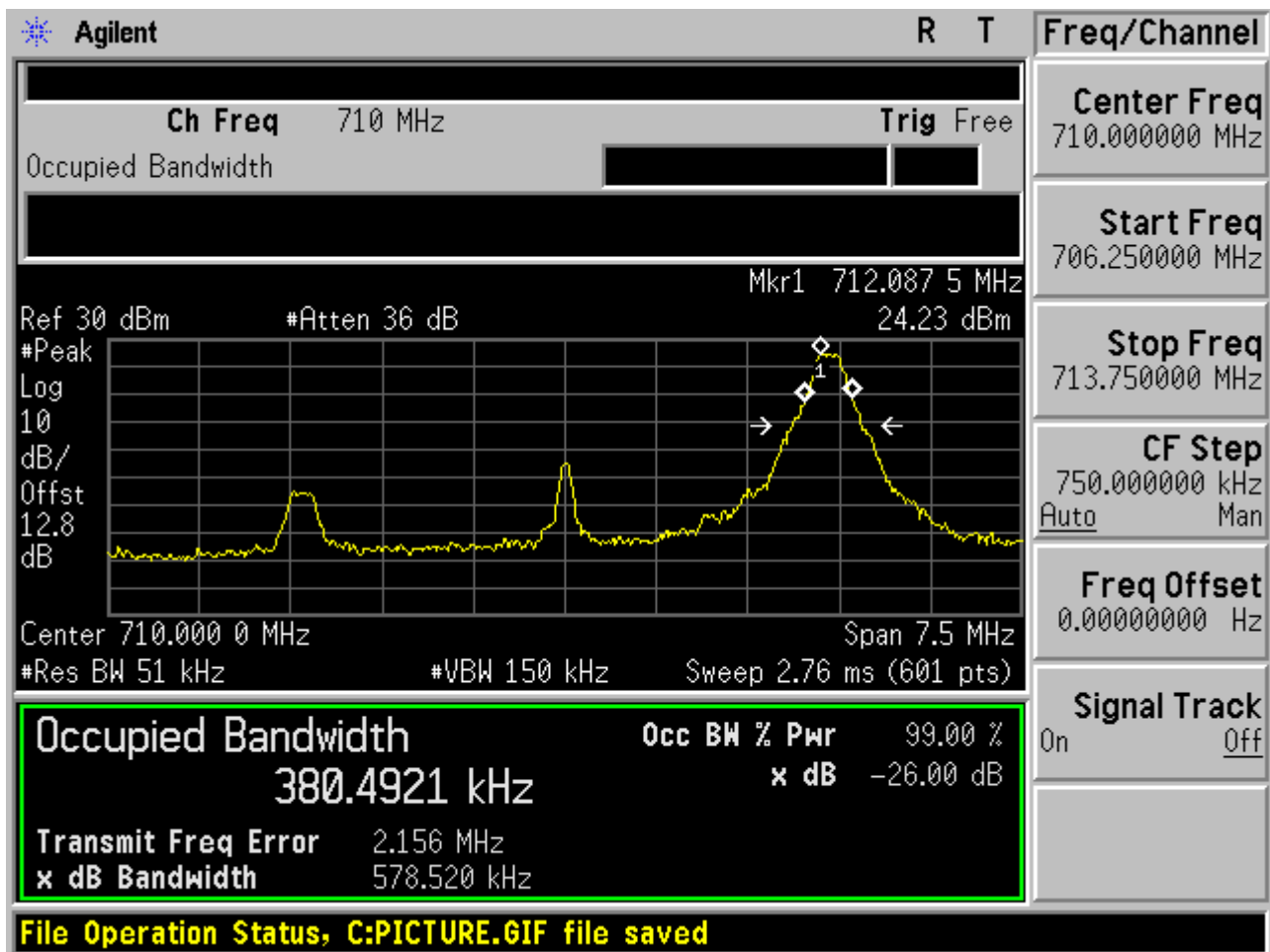
1.1.1.2 Channel =M

1.1.1.2.1 QPSK/1RB # 0

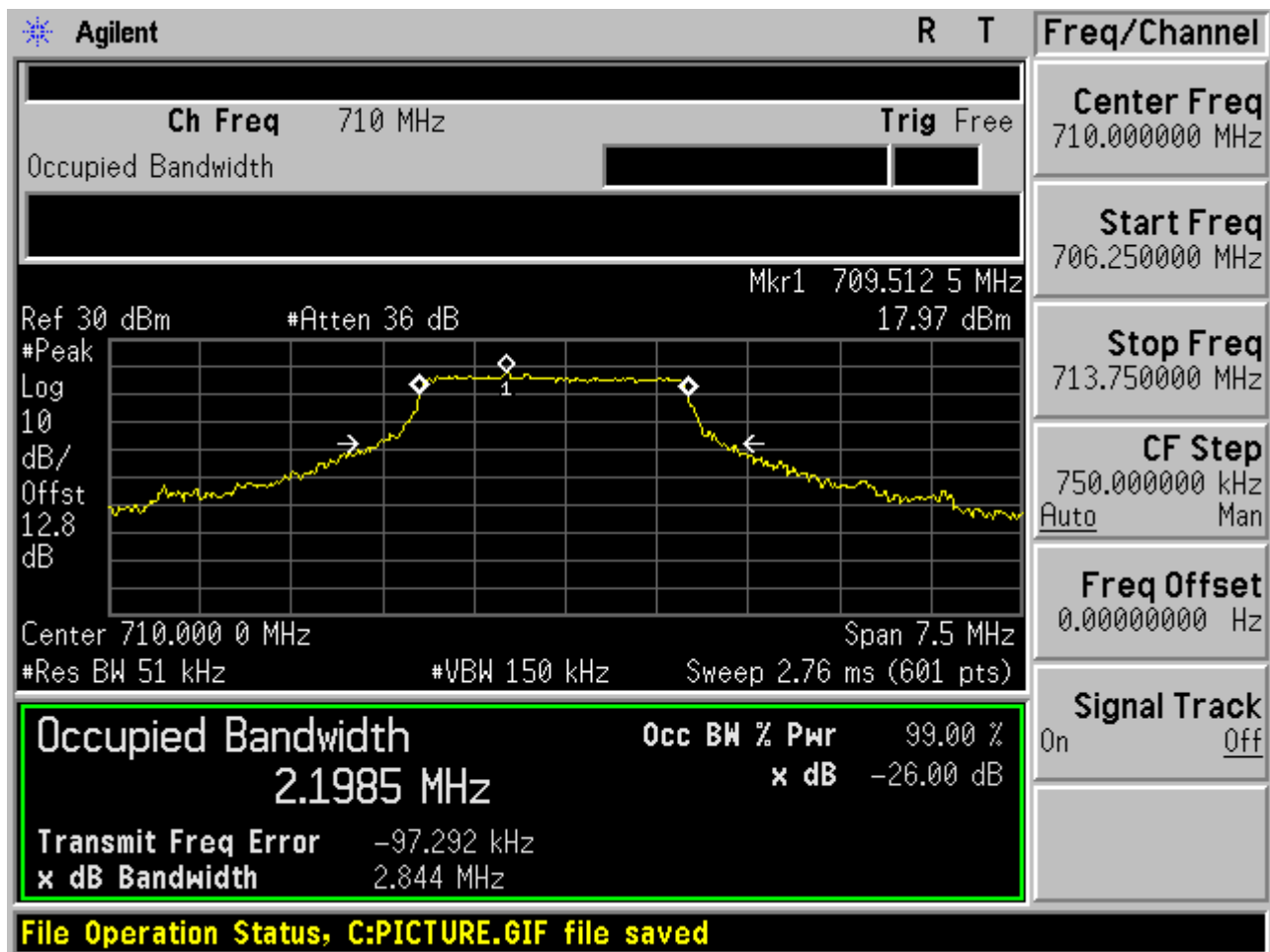




1.1.1.2.2 QPSK/1RB # max

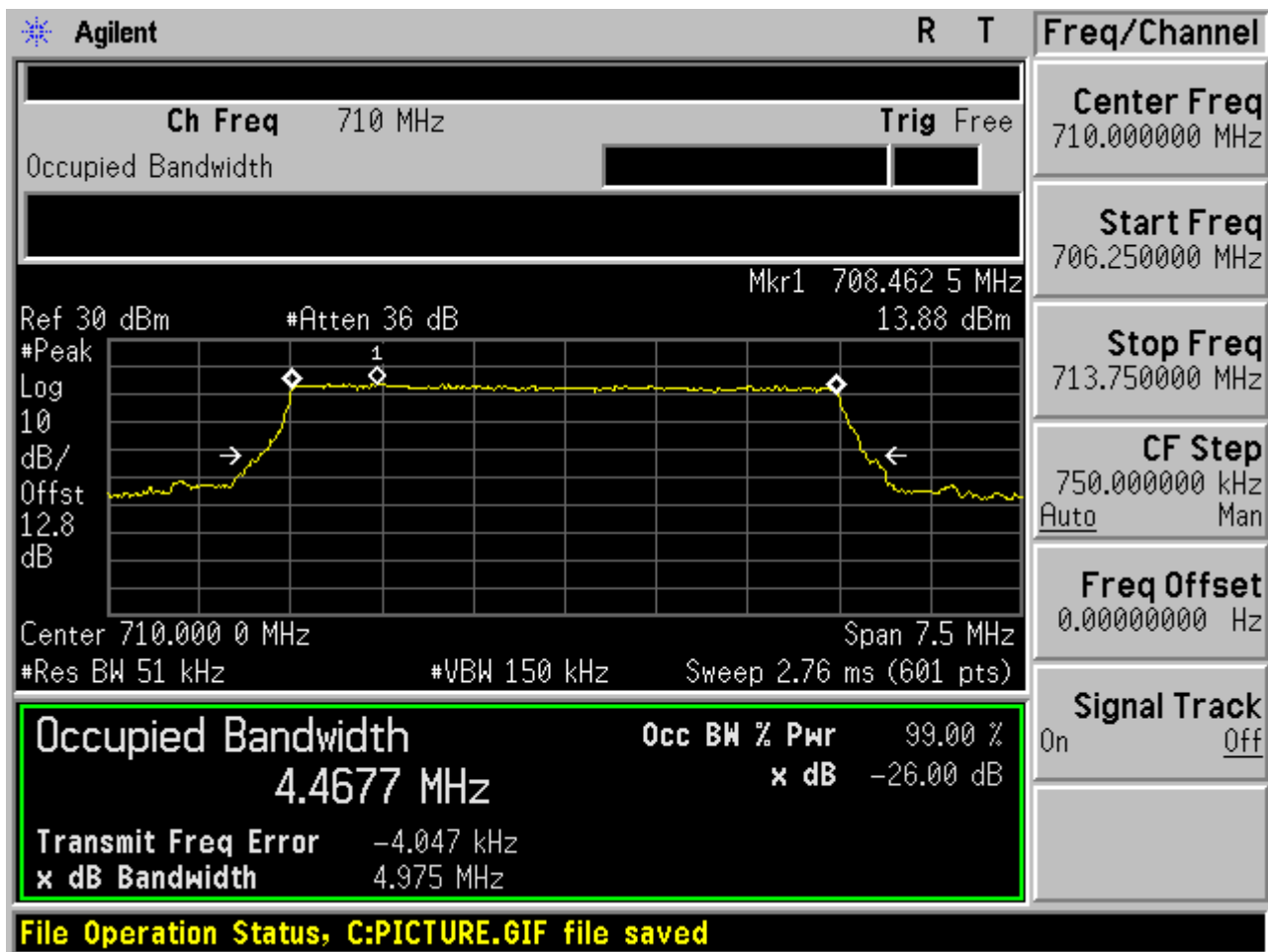


1.1.1.2.3 QPSK/non-1RB #mid/2





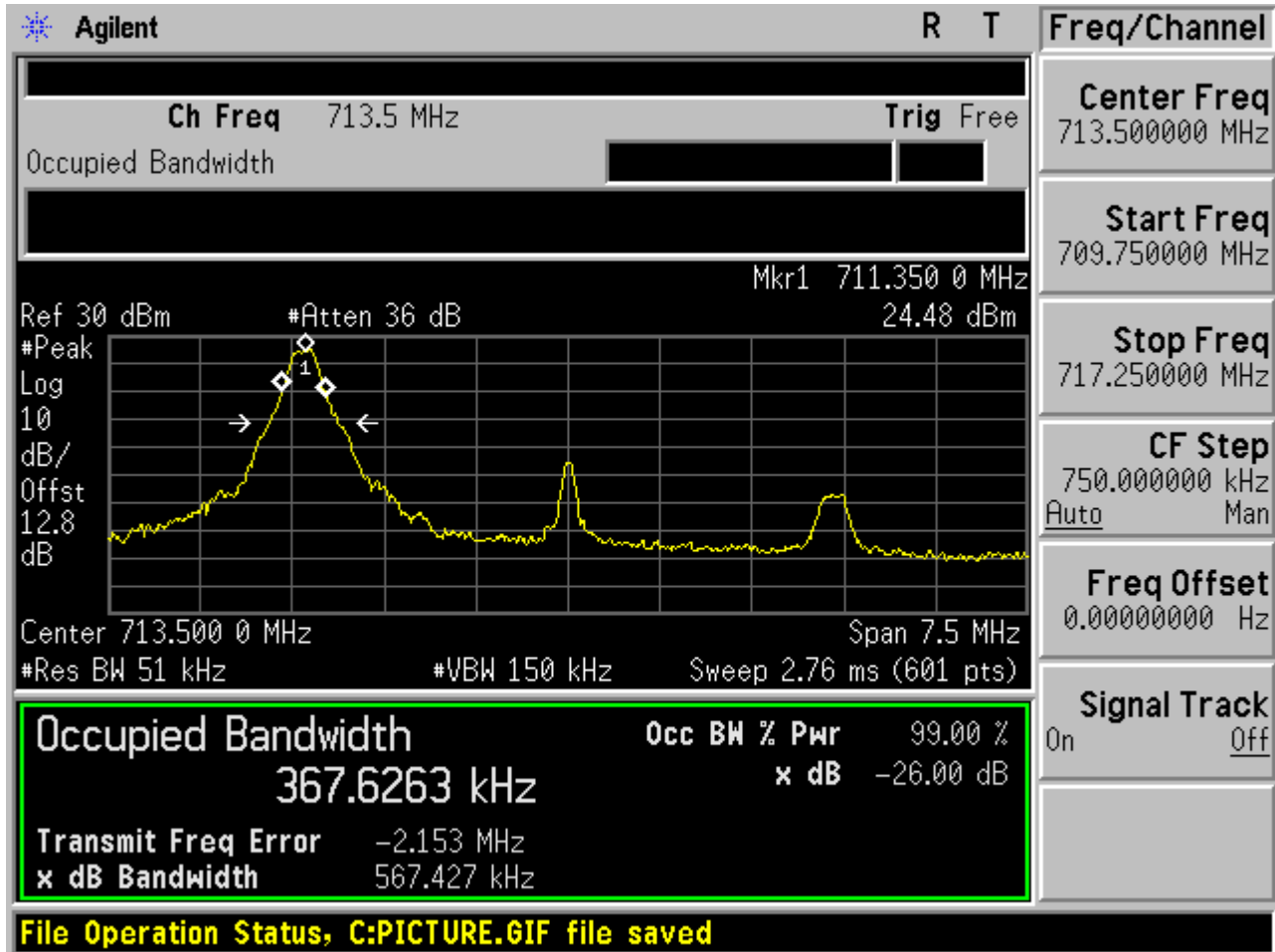
1.1.1.2.4 QPSK/full RBs





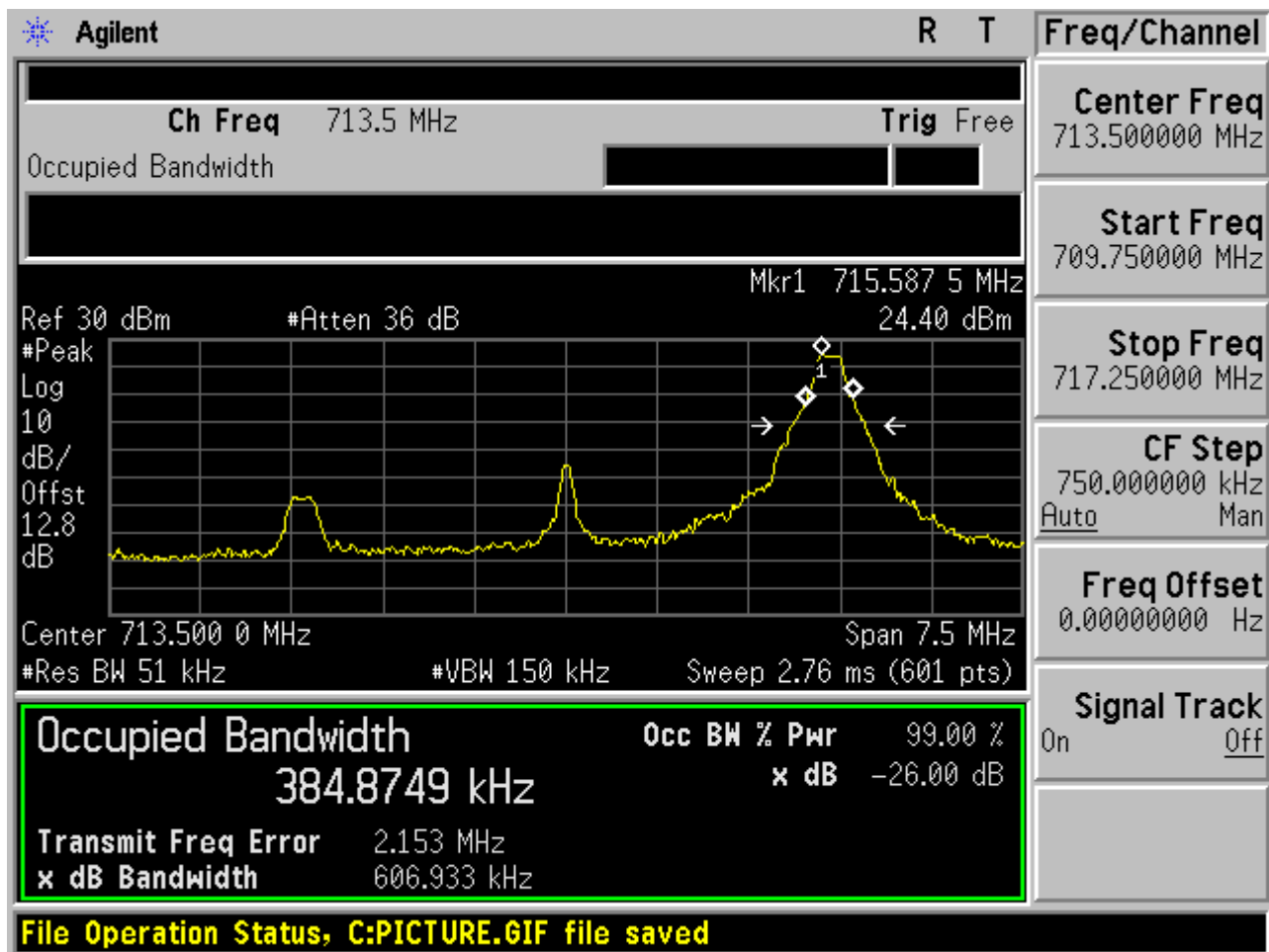
1.1.1.3 Channel =T

1.1.1.3.1 QPSK/1RB # 0

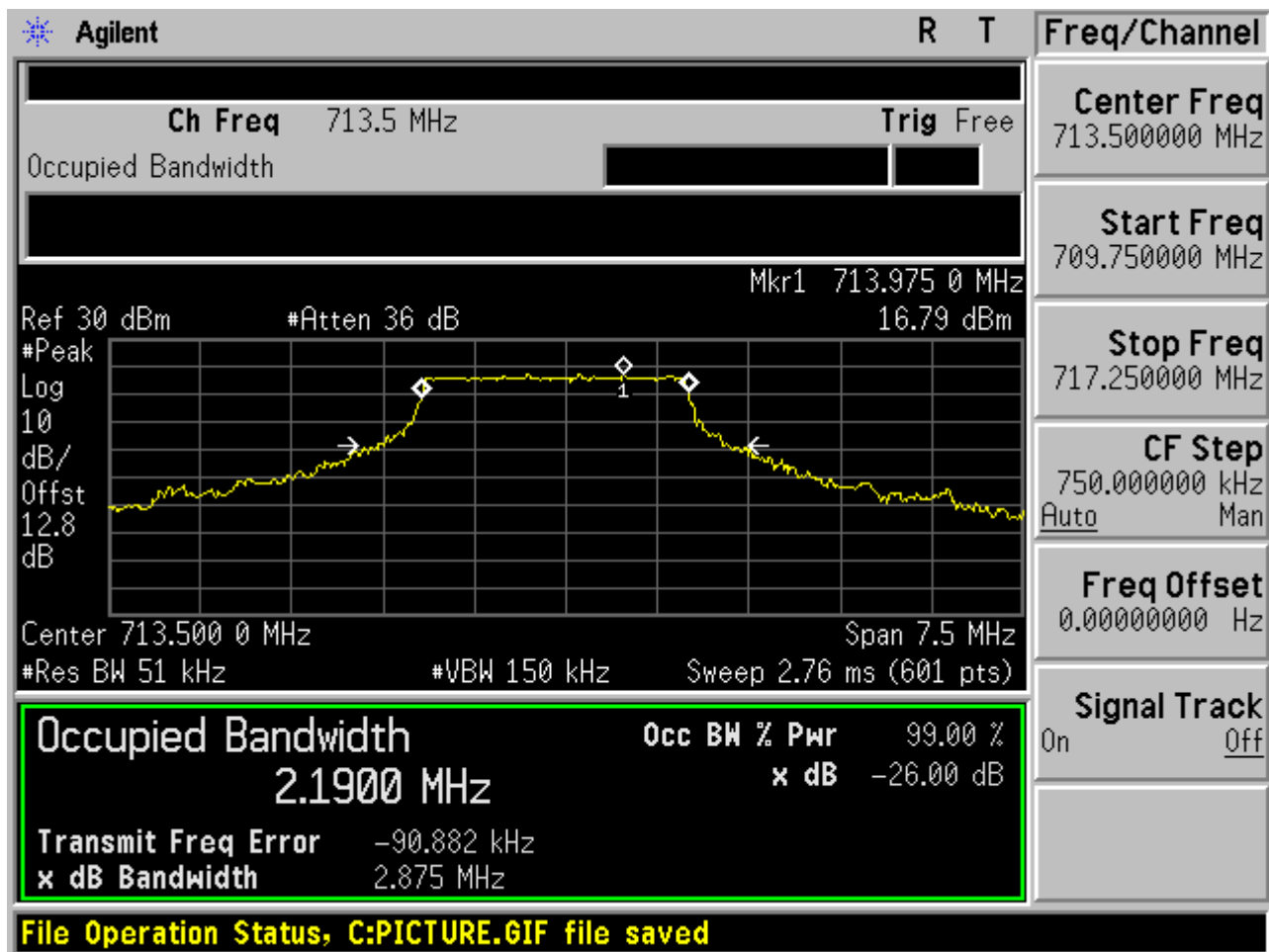




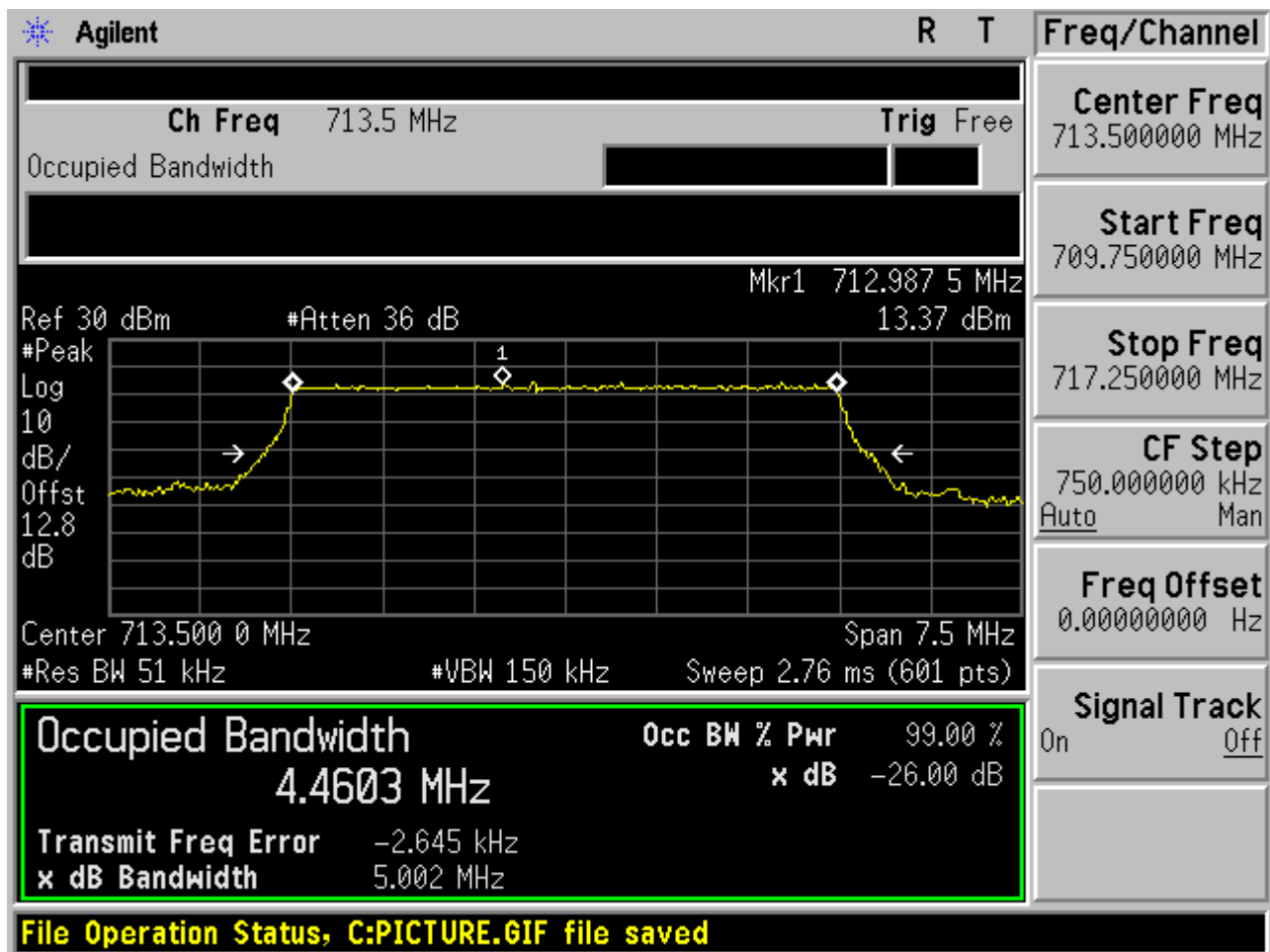
1.1.1.3.2 QPSK/1RB # max



1.1.1.3.3 QPSK/non-1RB #mid/2



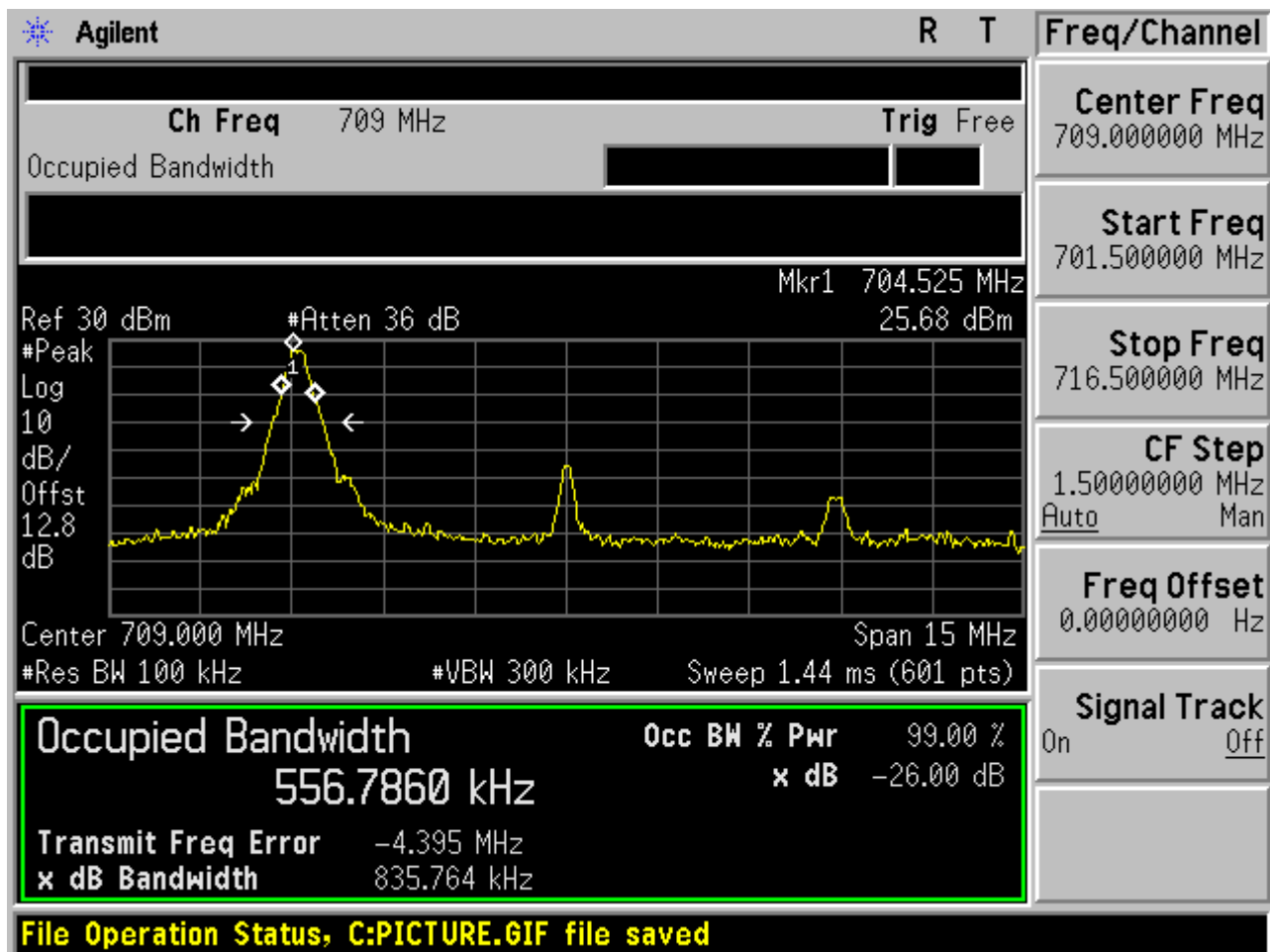
1.1.1.3.4 QPSK/full RBs



1.1.2 Channel Bandwidth = 10 MHz

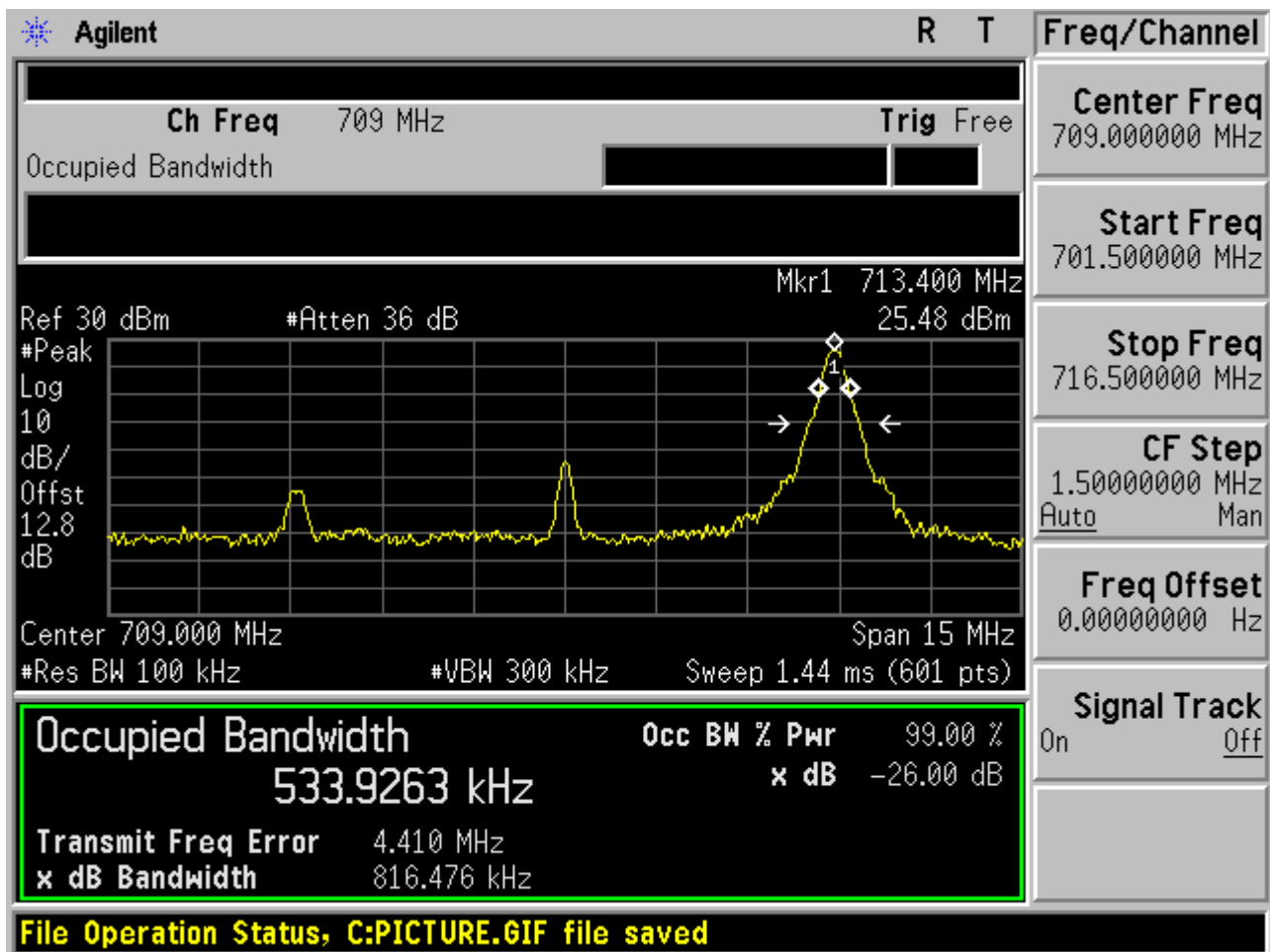
1.1.2.1 Channel = B

1.1.2.1.1 QPSK/1RB # 0



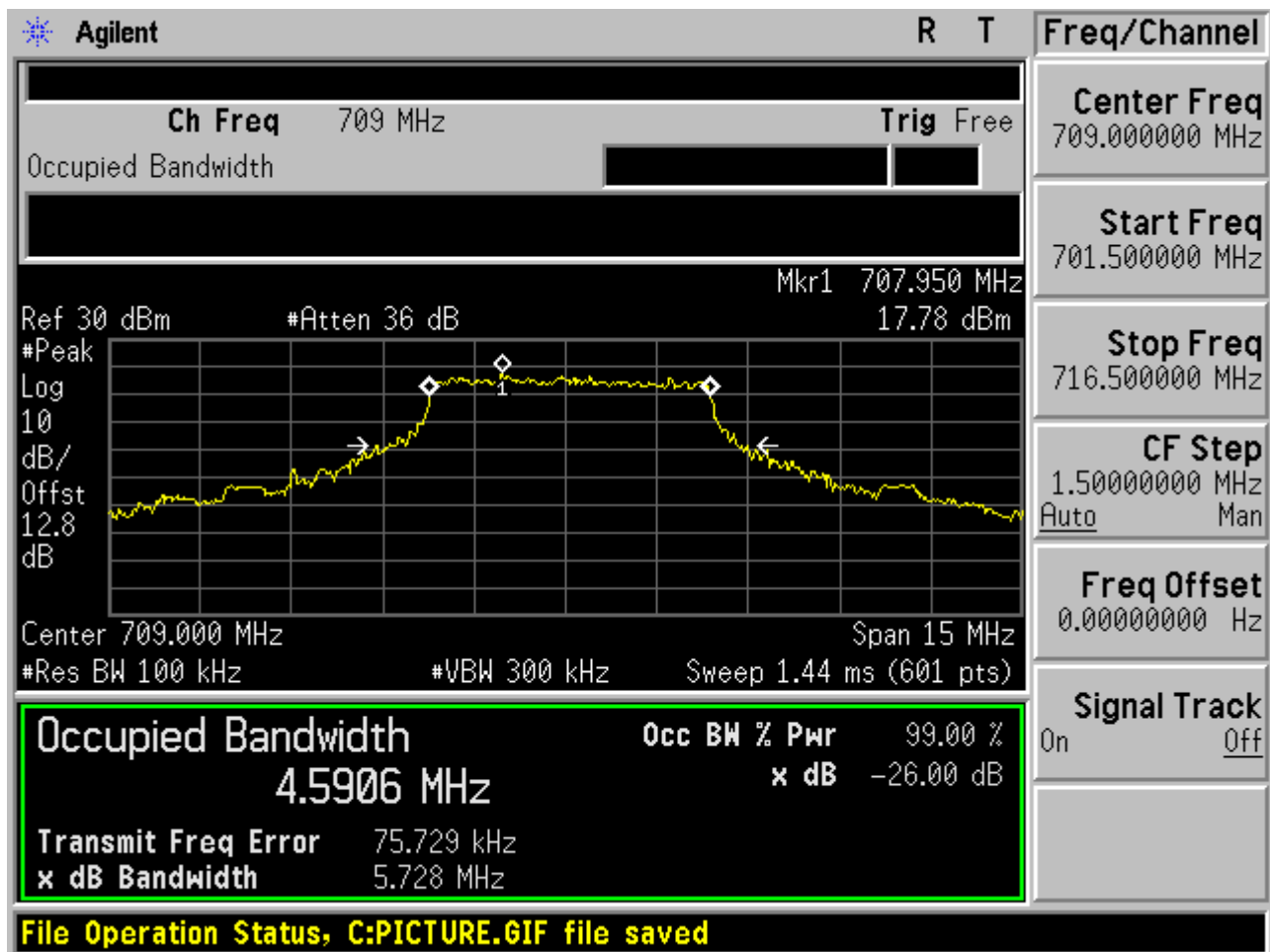


1.1.2.1.2 QPSK/1RB # max



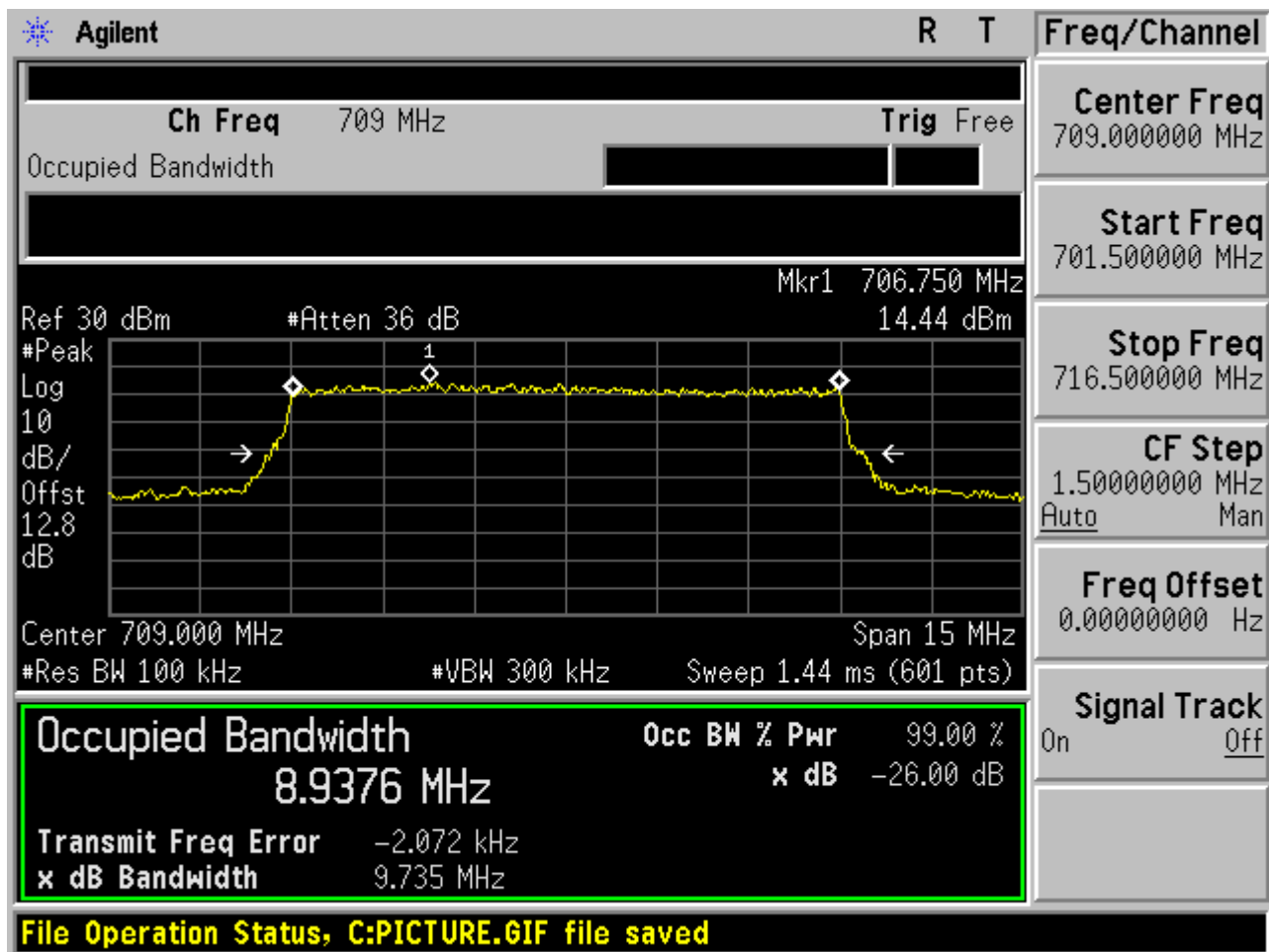


1.1.2.1.3 QPSK/non-1RB #mid/2





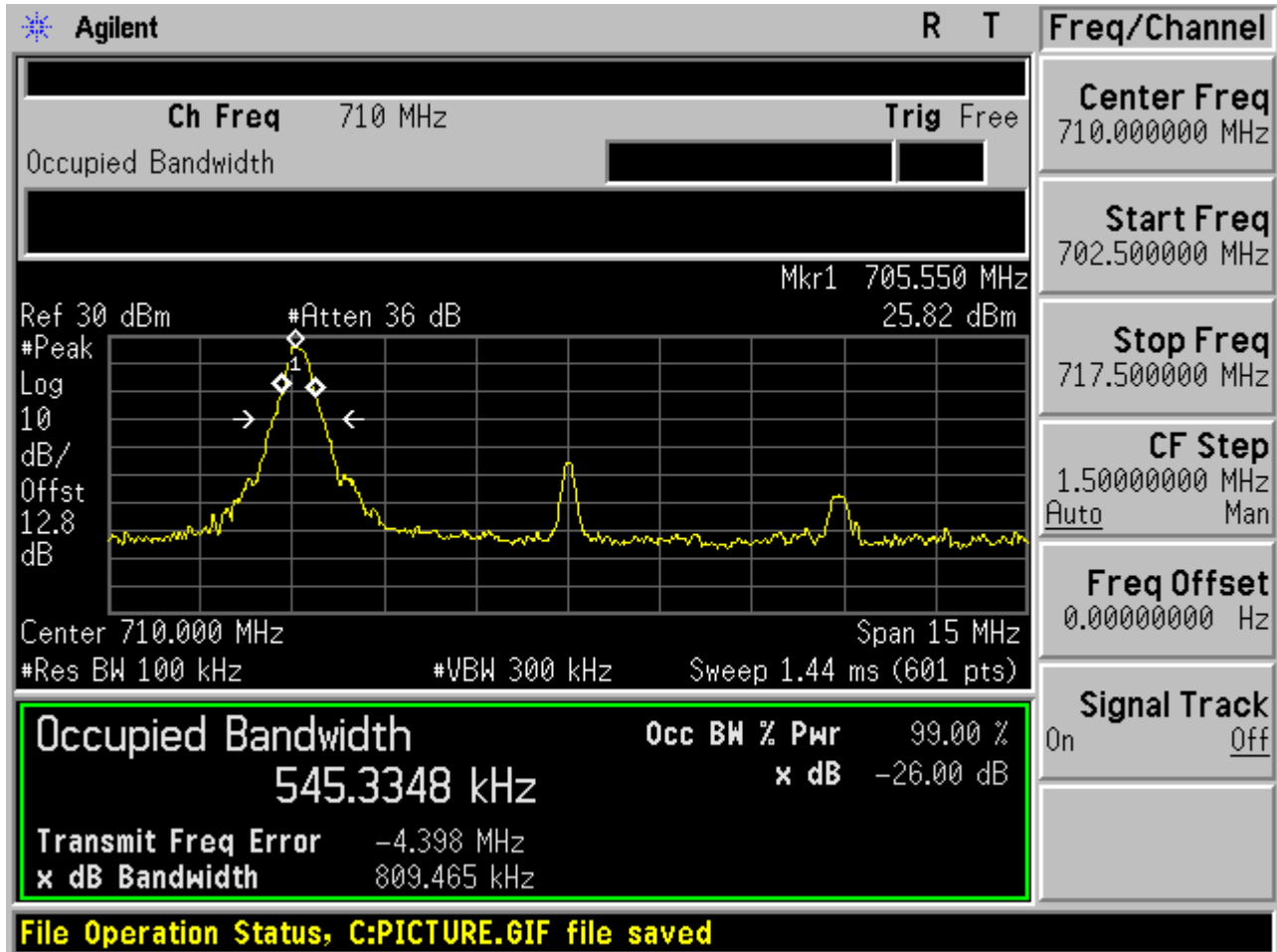
1.1.2.1.4 QPSK/full RBs





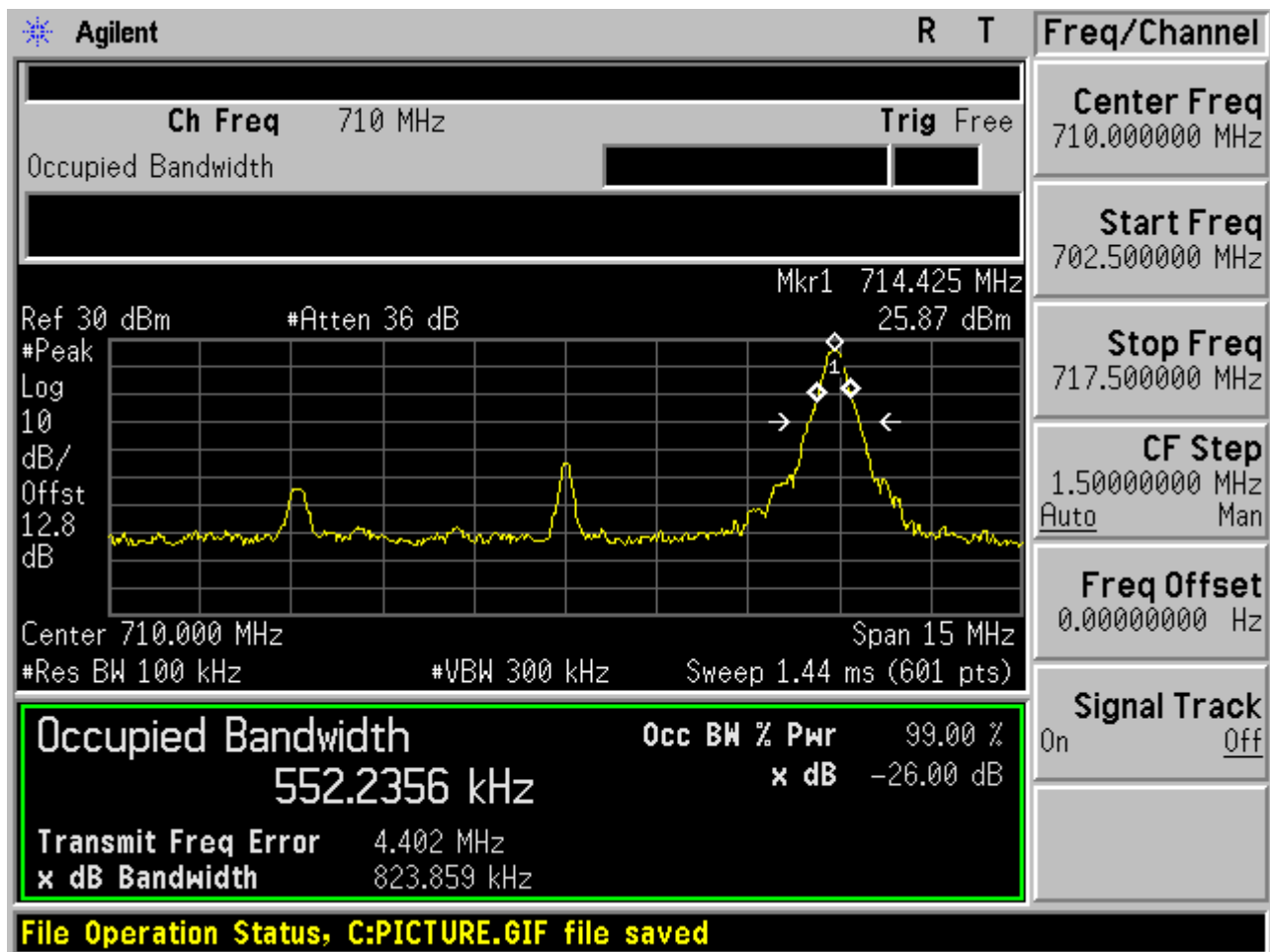
1.1.2.2 Channel =M

1.1.2.2.1 QPSK/1RB # 0



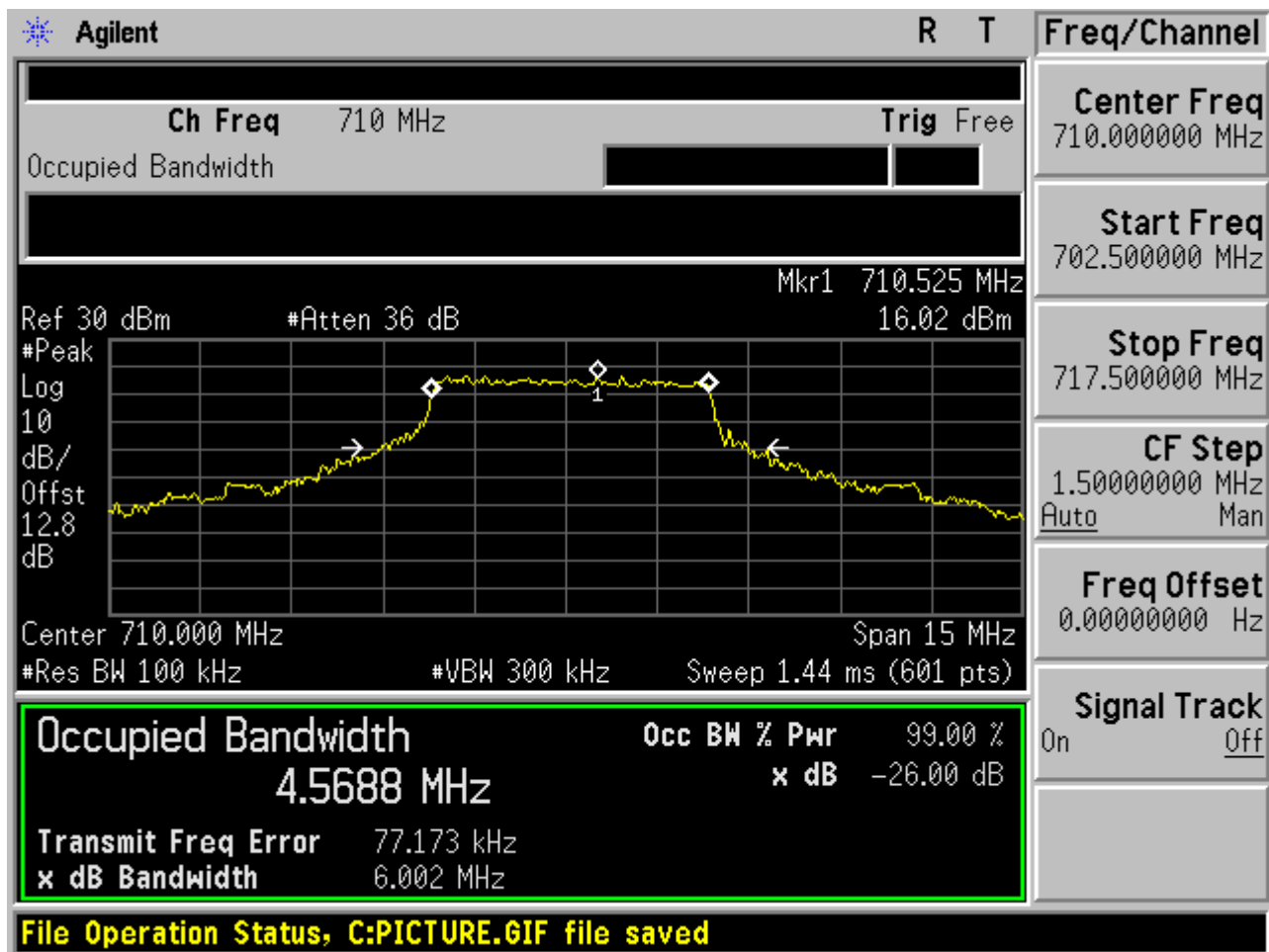


1.1.2.2.2 QPSK/1RB # max

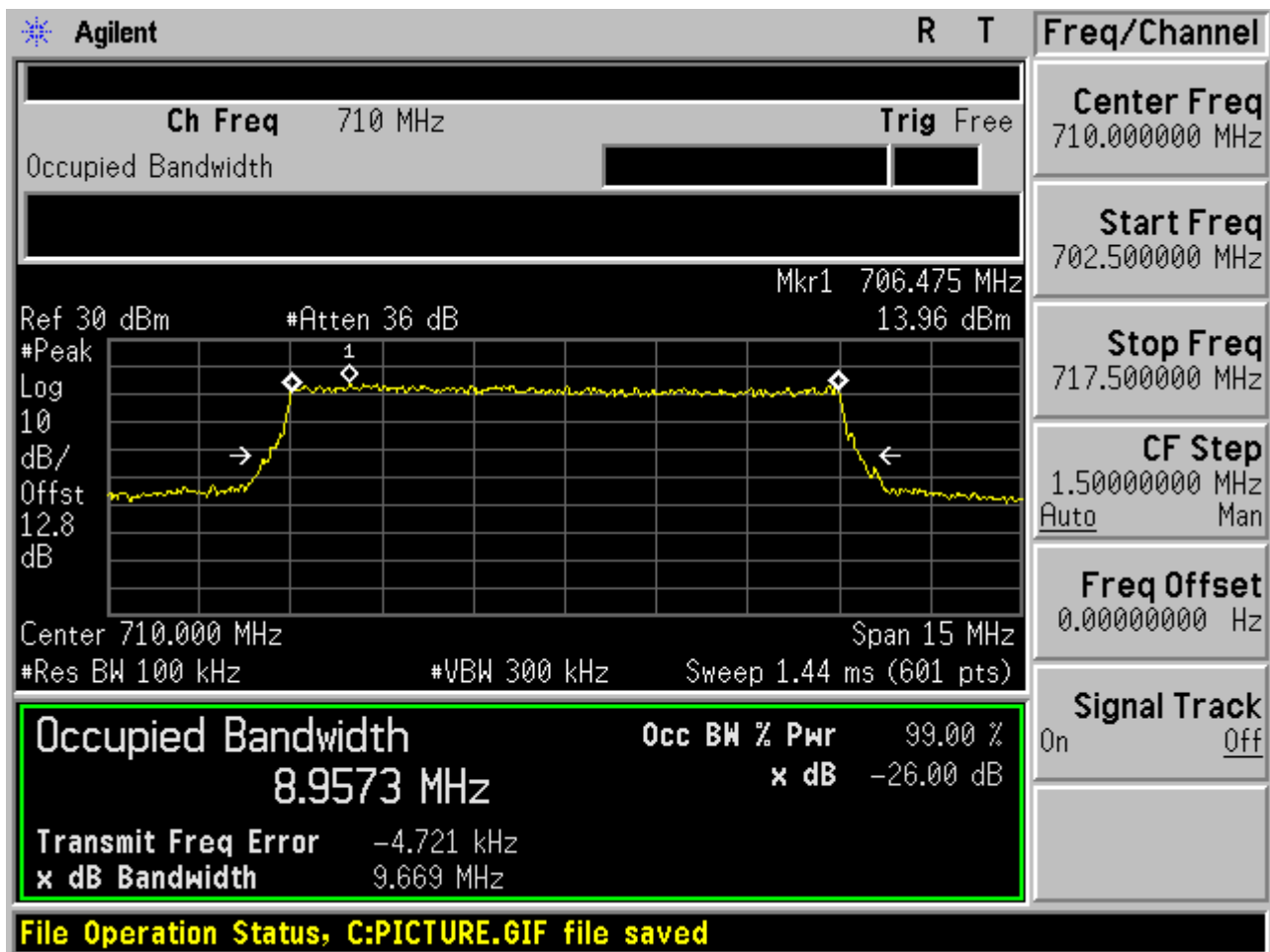




1.1.2.2.3 QPSK/non-1RB #mid/2



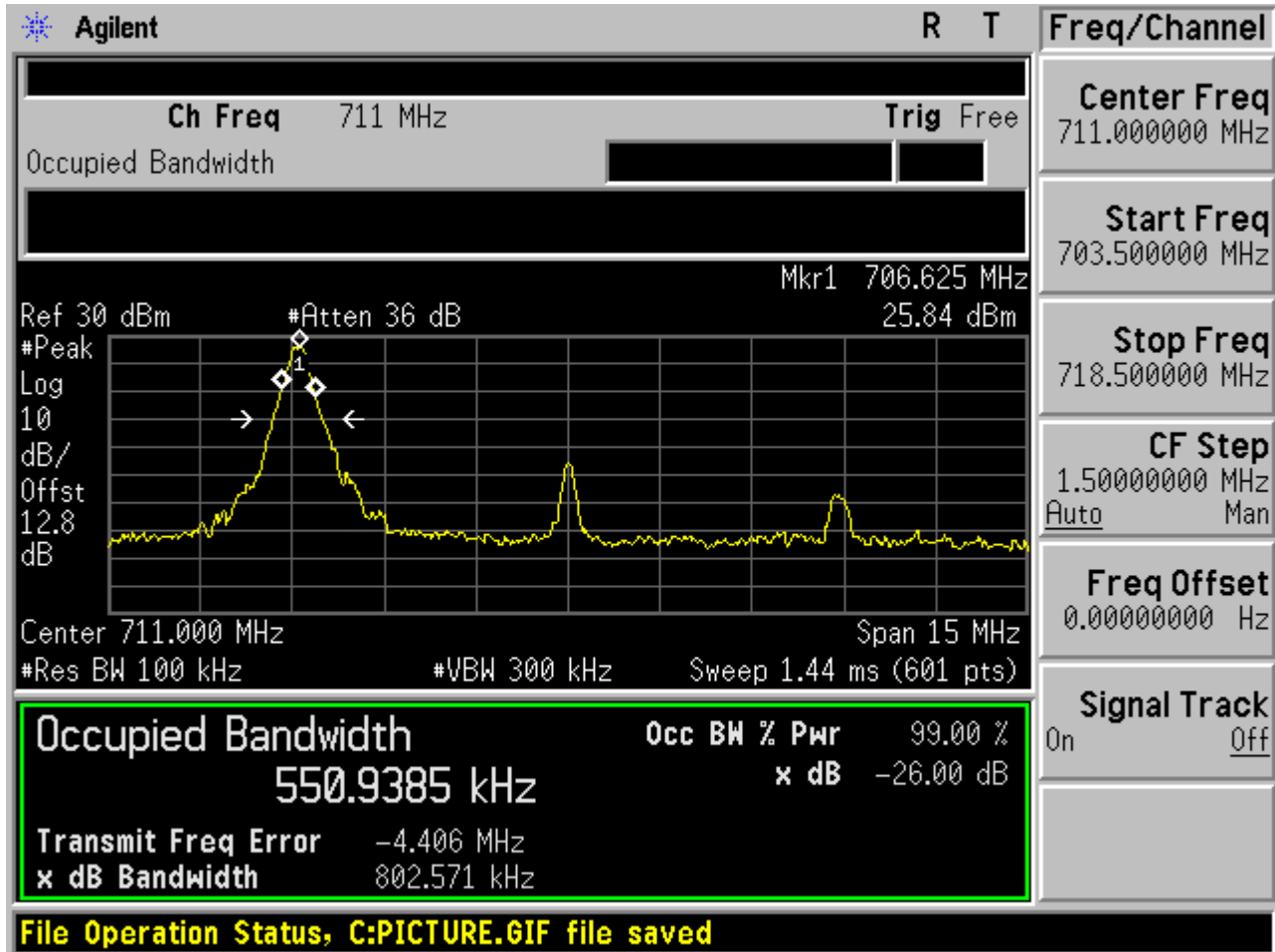
1.1.2.2.4 QPSK/full RBs





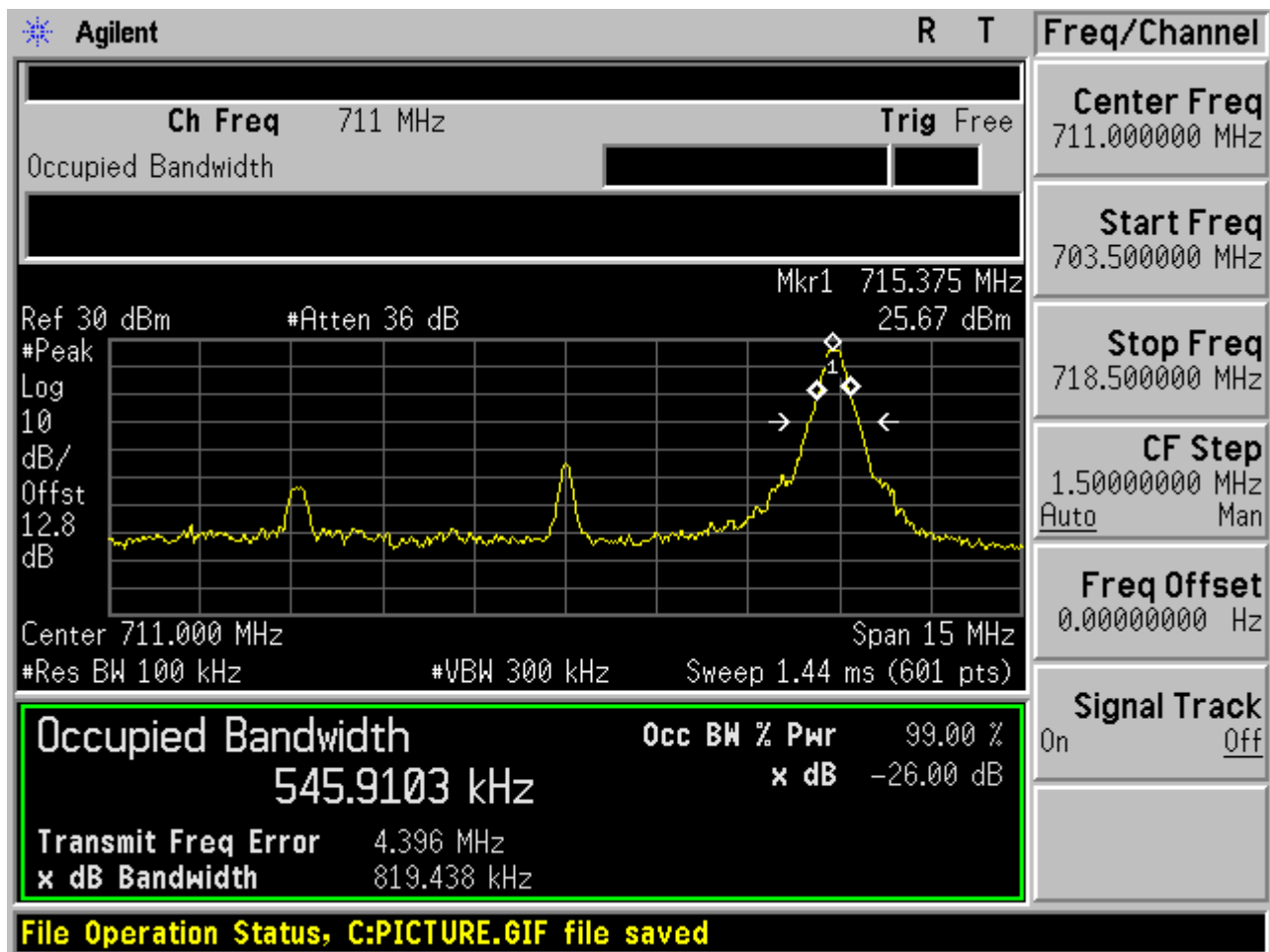
1.1.2.3 Channel =T

1.1.2.3.1 QPSK/1RB # 0



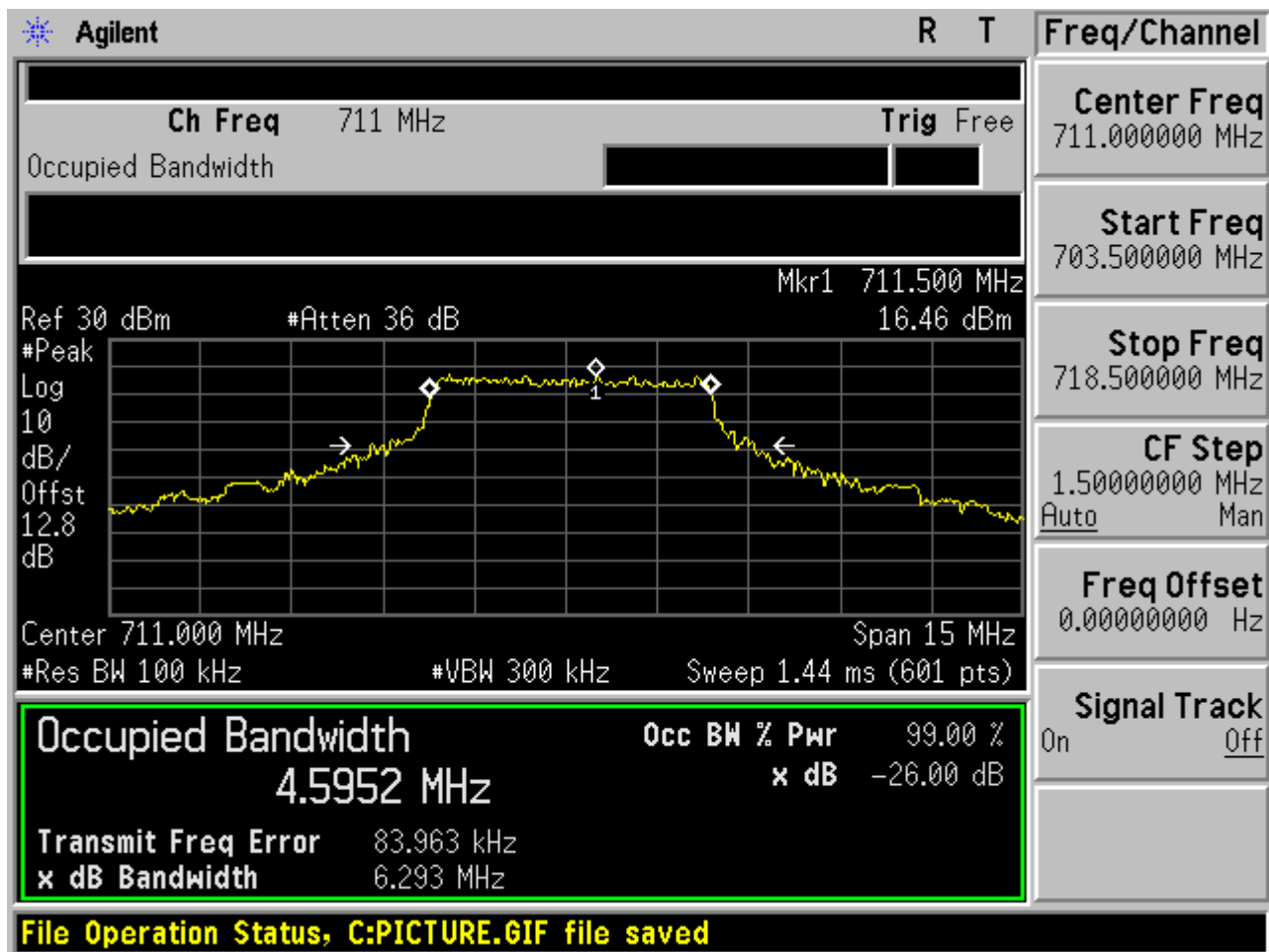


1.1.2.3.2 QPSK/1RB # max



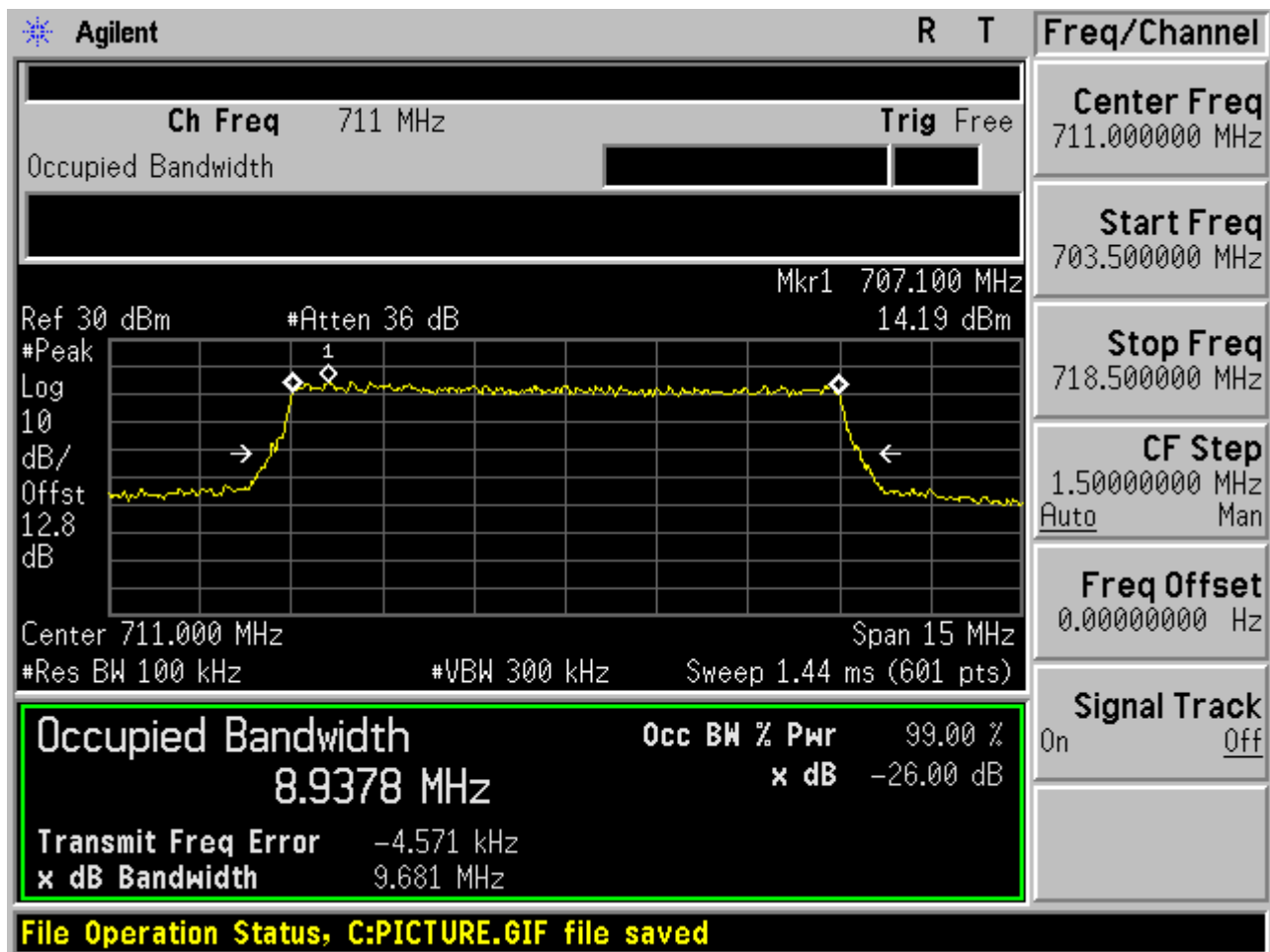


1.1.2.3.3 QPSK/non-1RB #mid/2





1.1.2.3.4 QPSK/full RBs

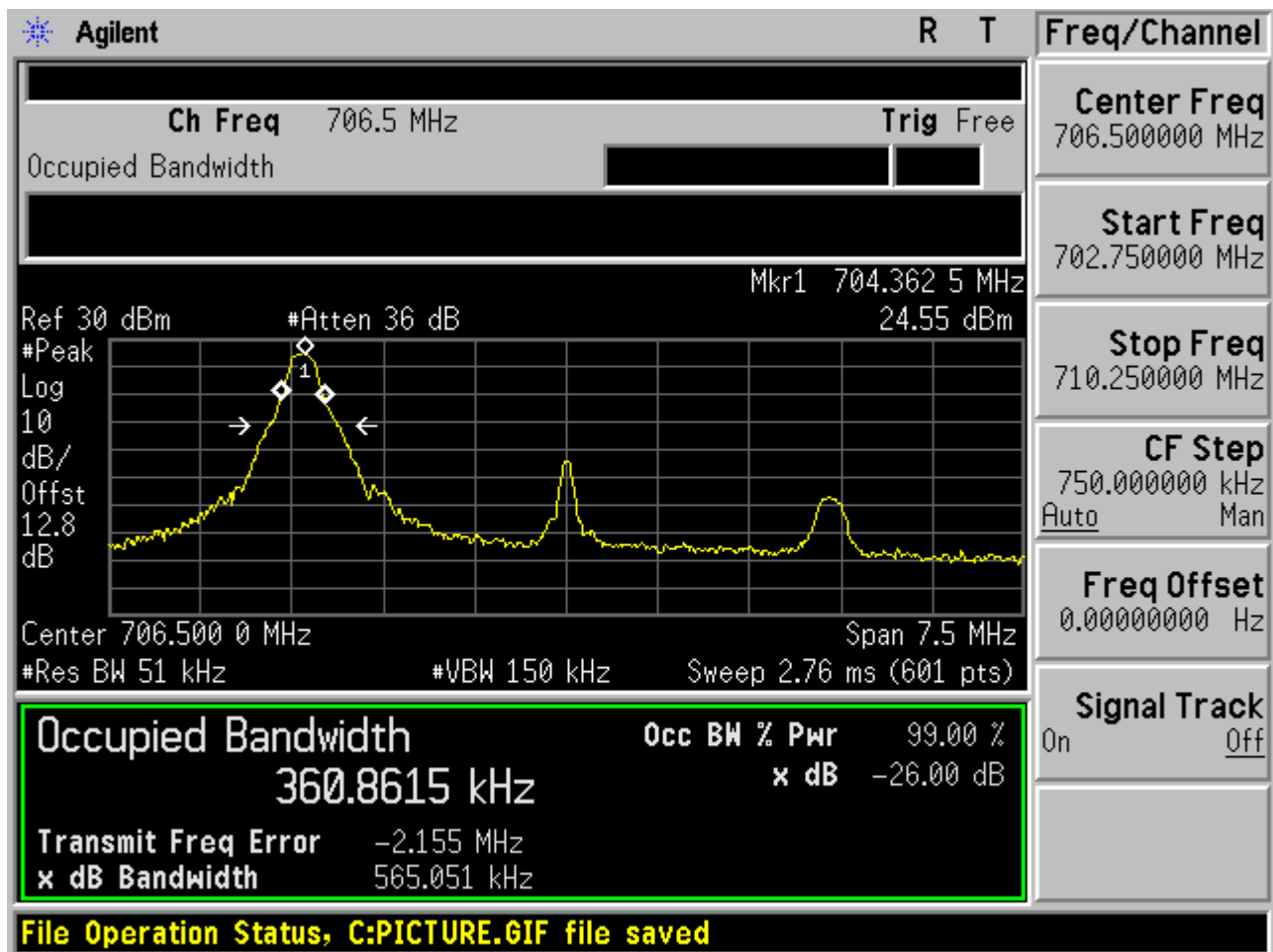


1.2 Test Mode=TM2

1.2.1 Channel Bandwidth = 5 MHz

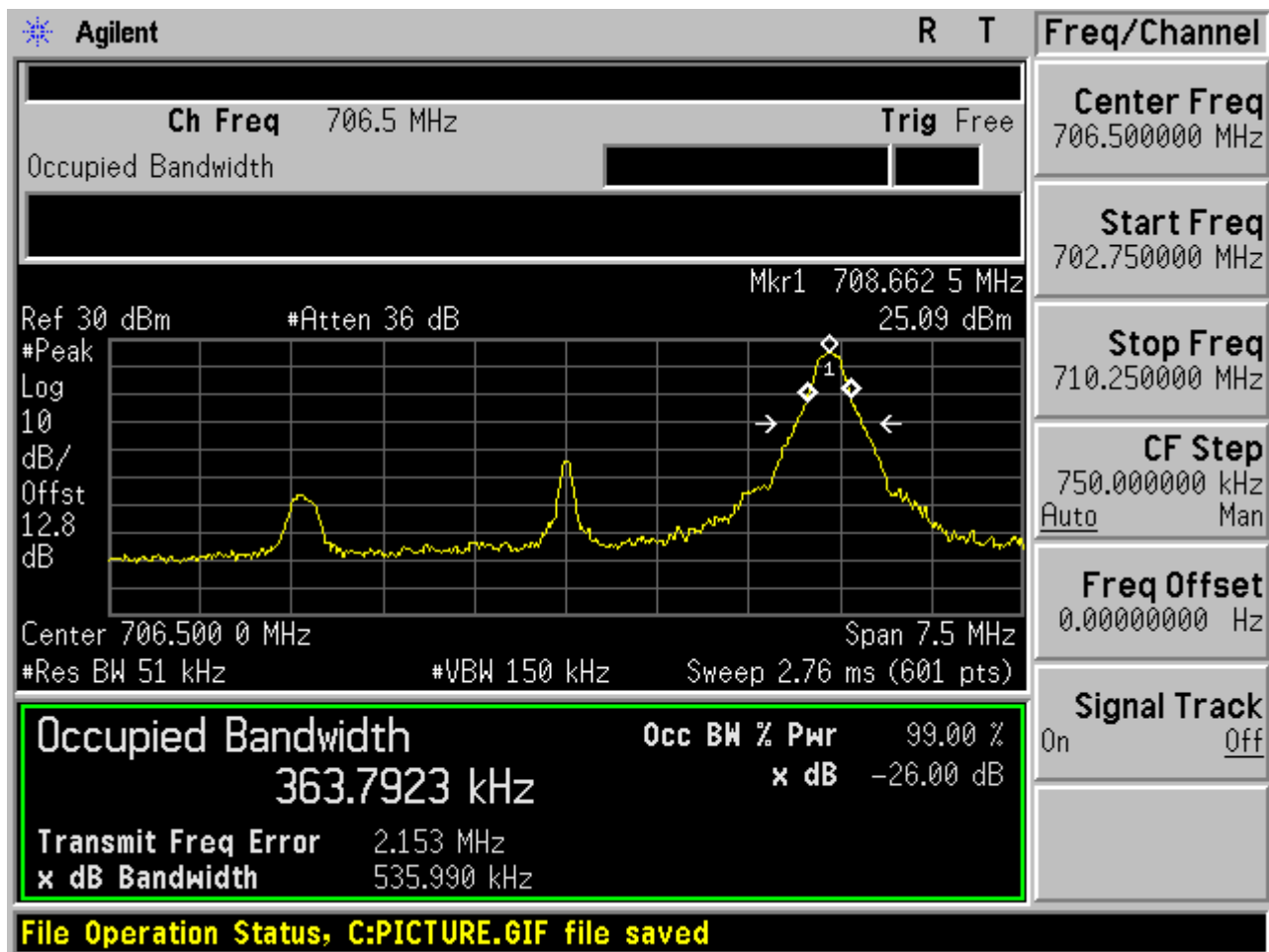
1.2.1.1 Channel =B

1.2.1.1.1 16QAM/1RB # 0

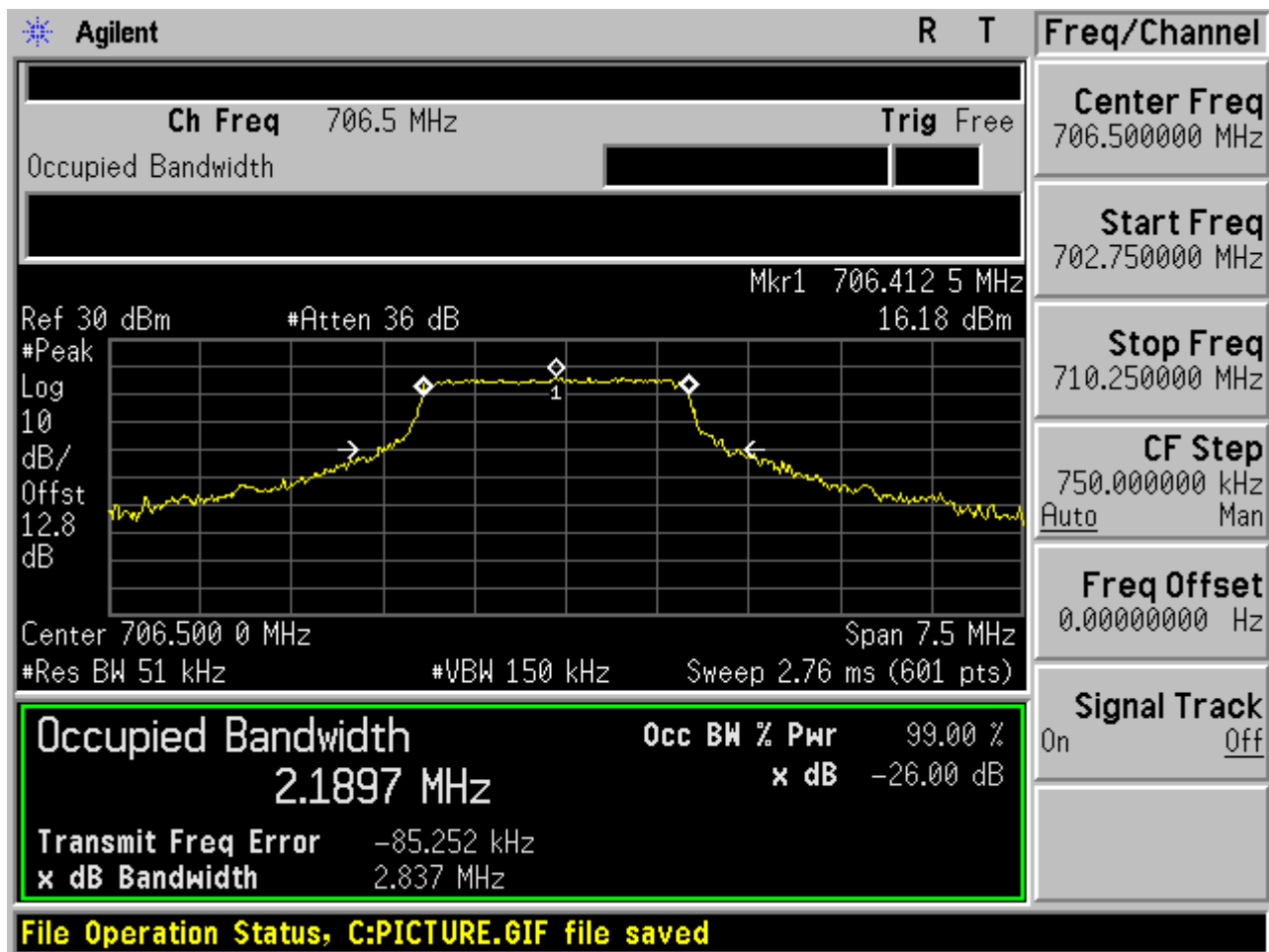




1.2.1.1.2 16QAM /1RB # max

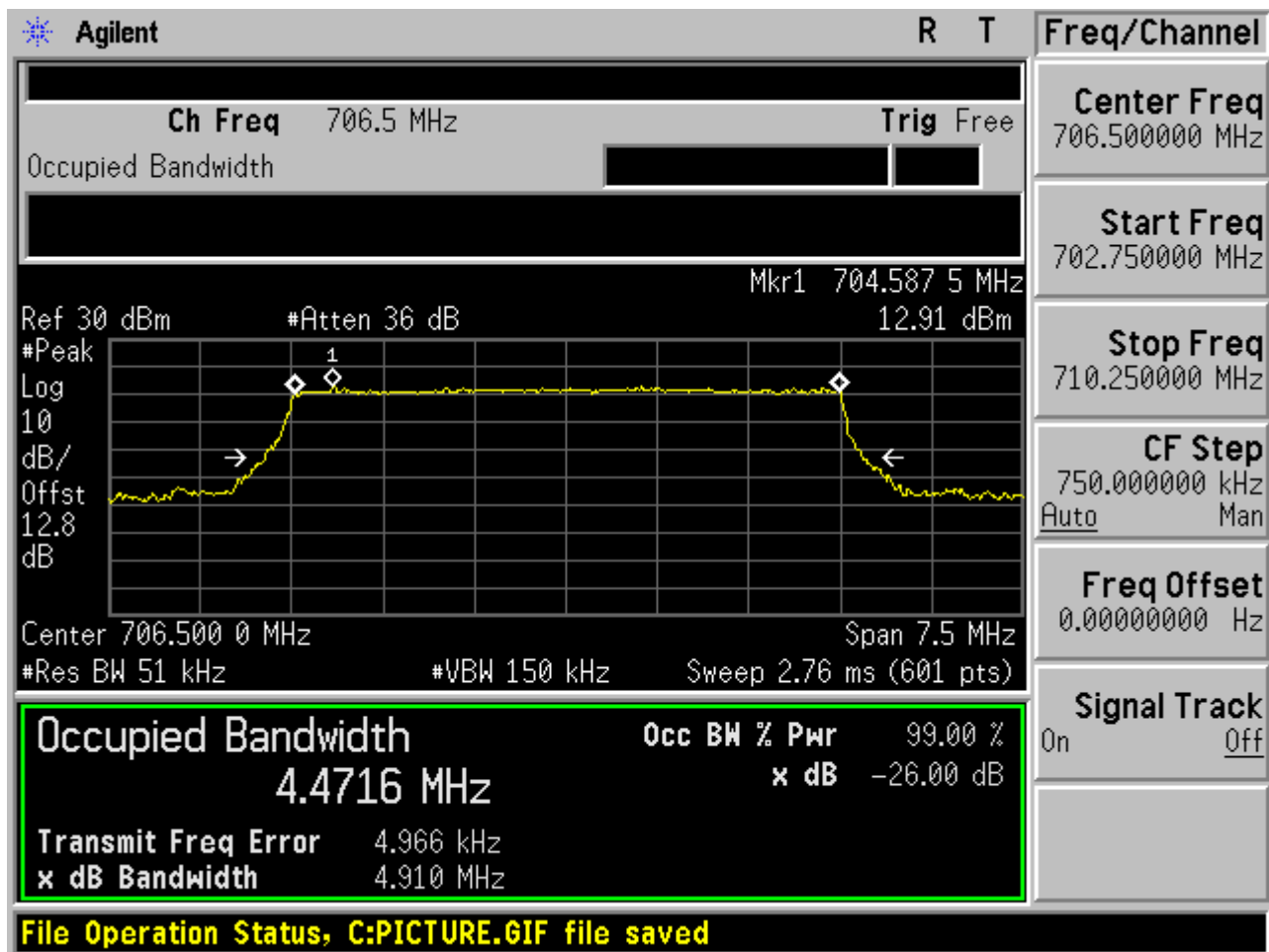


1.2.1.1.3 16QAM /non-1RB #mid/2





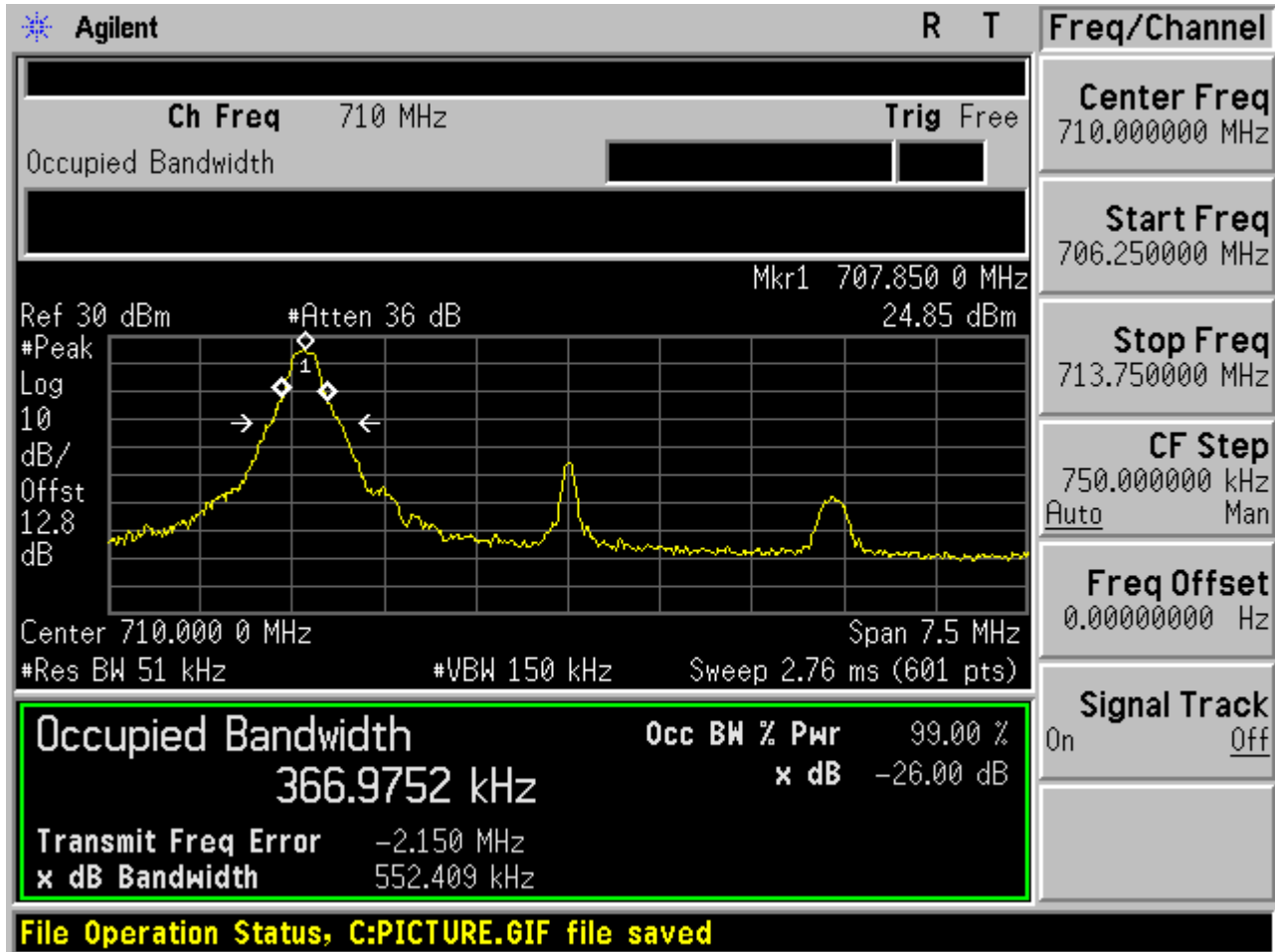
1.2.1.1.4 16QAM /full RBs





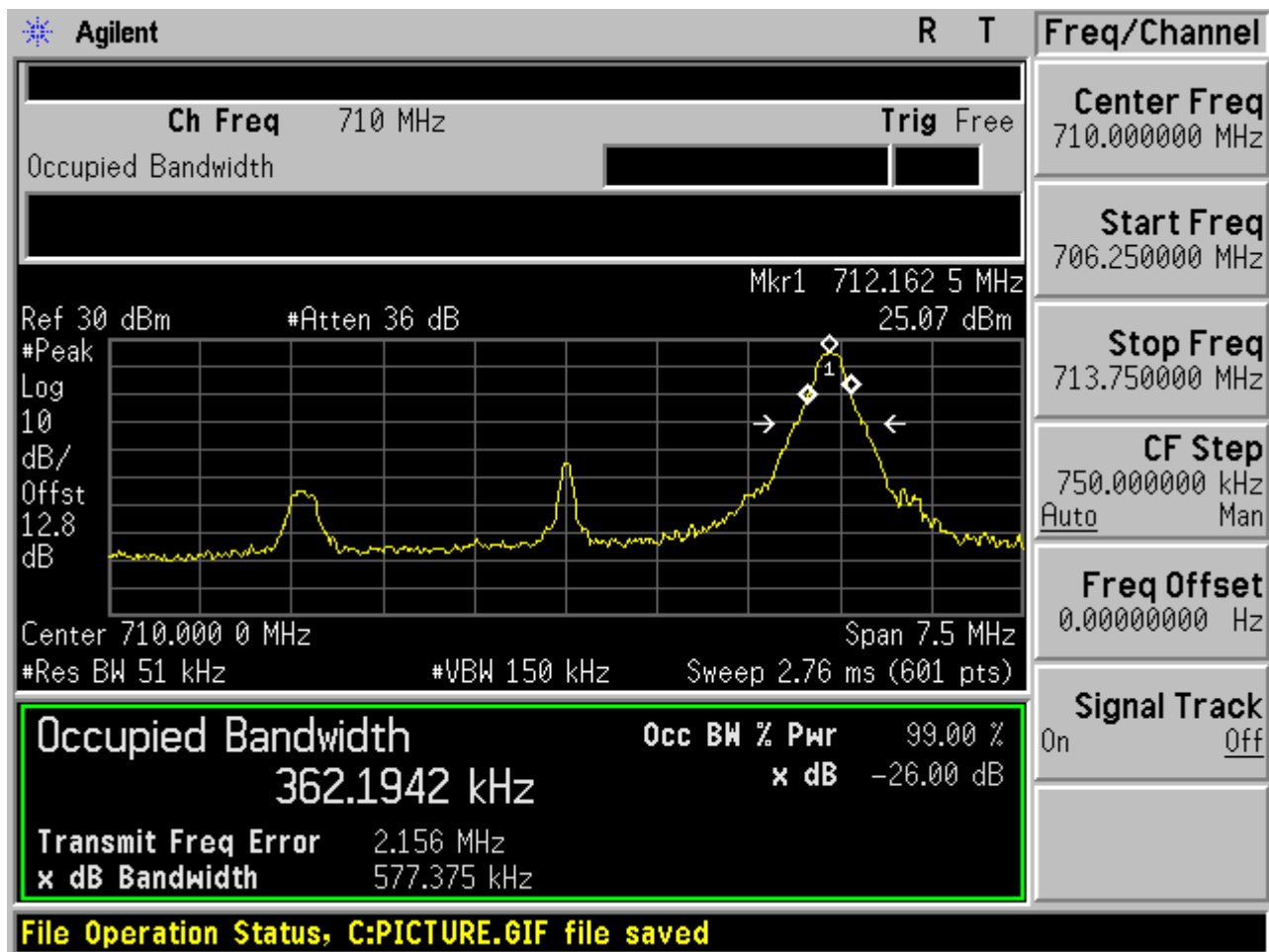
1.2.1.2 Channel =M

1.2.1.2.1 16QAM/1RB # 0



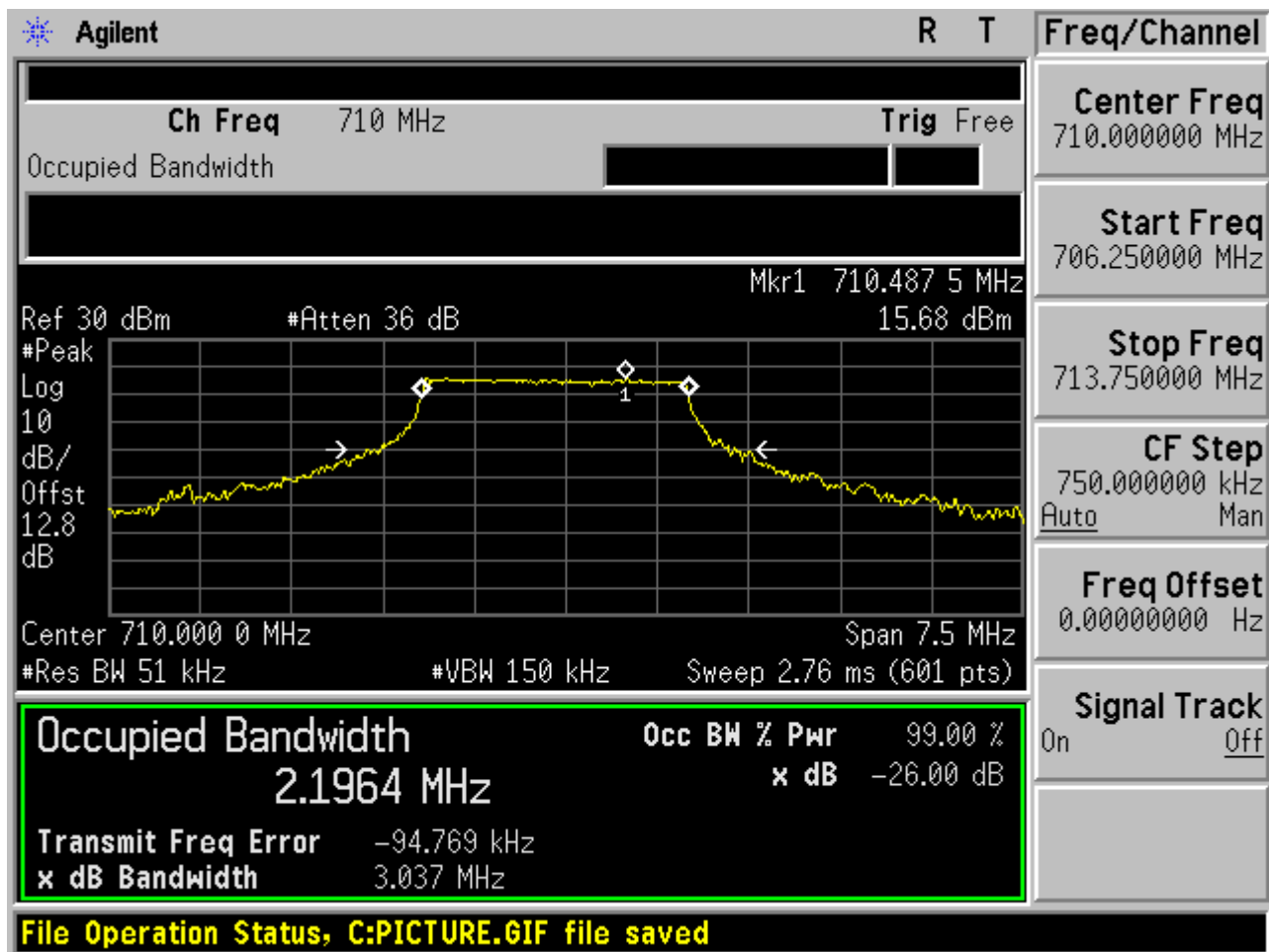


1.2.1.2.2 16QAM /1RB # max

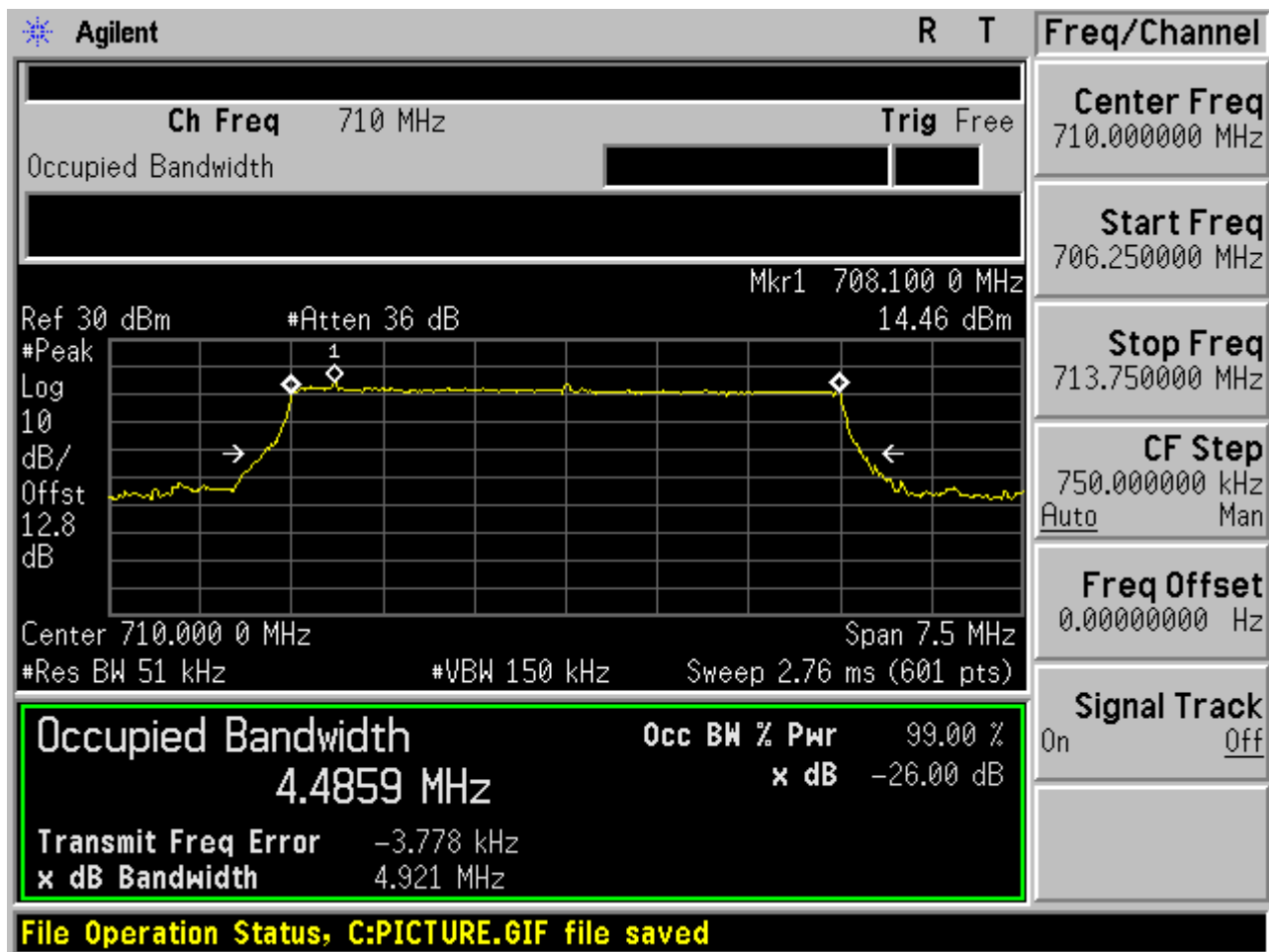




1.2.1.2.3 16QAM /non-1RB #mid/2



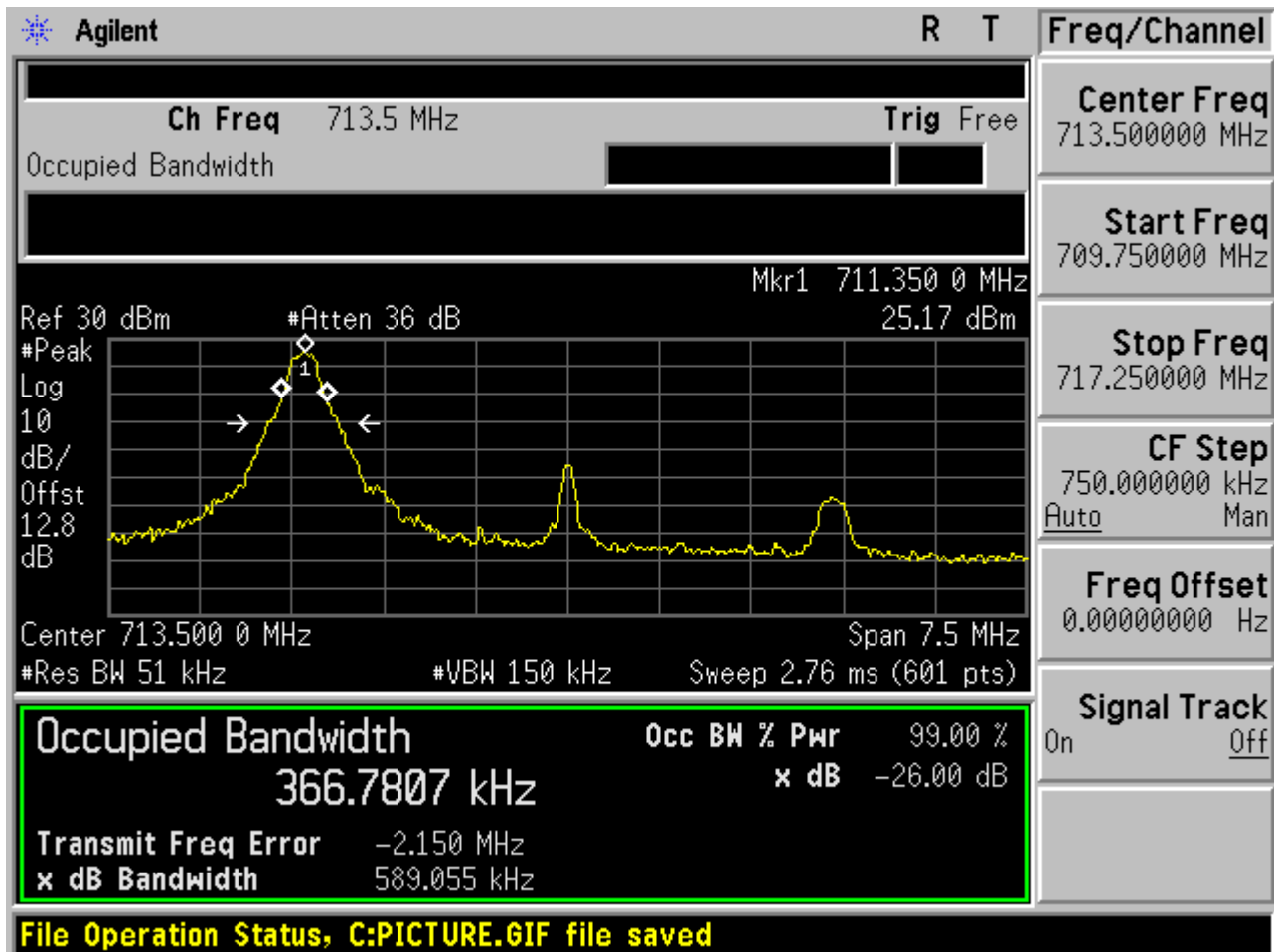
1.2.1.2.4 16QAM /full RBs

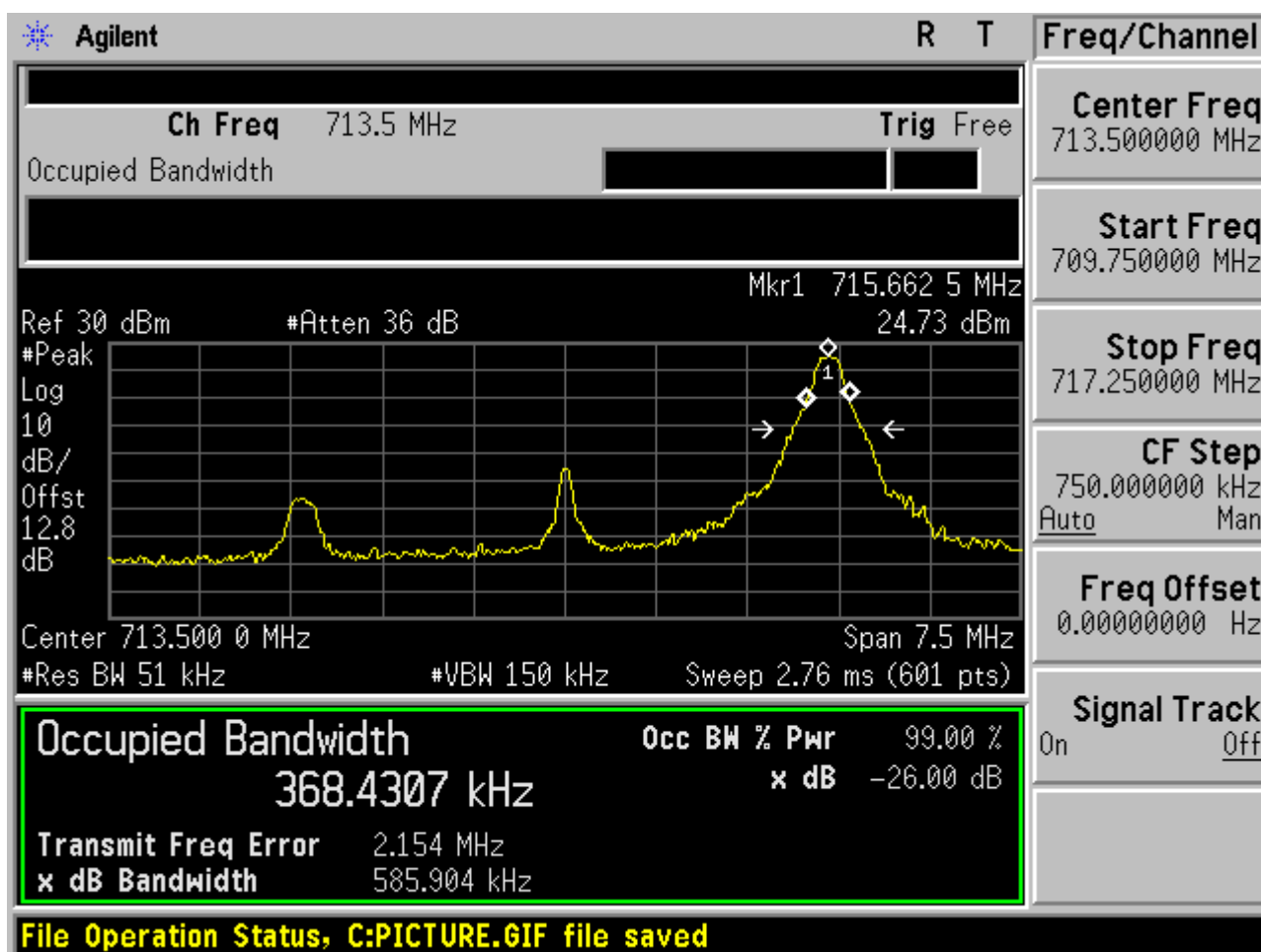




1.2.1.3 Channel =T

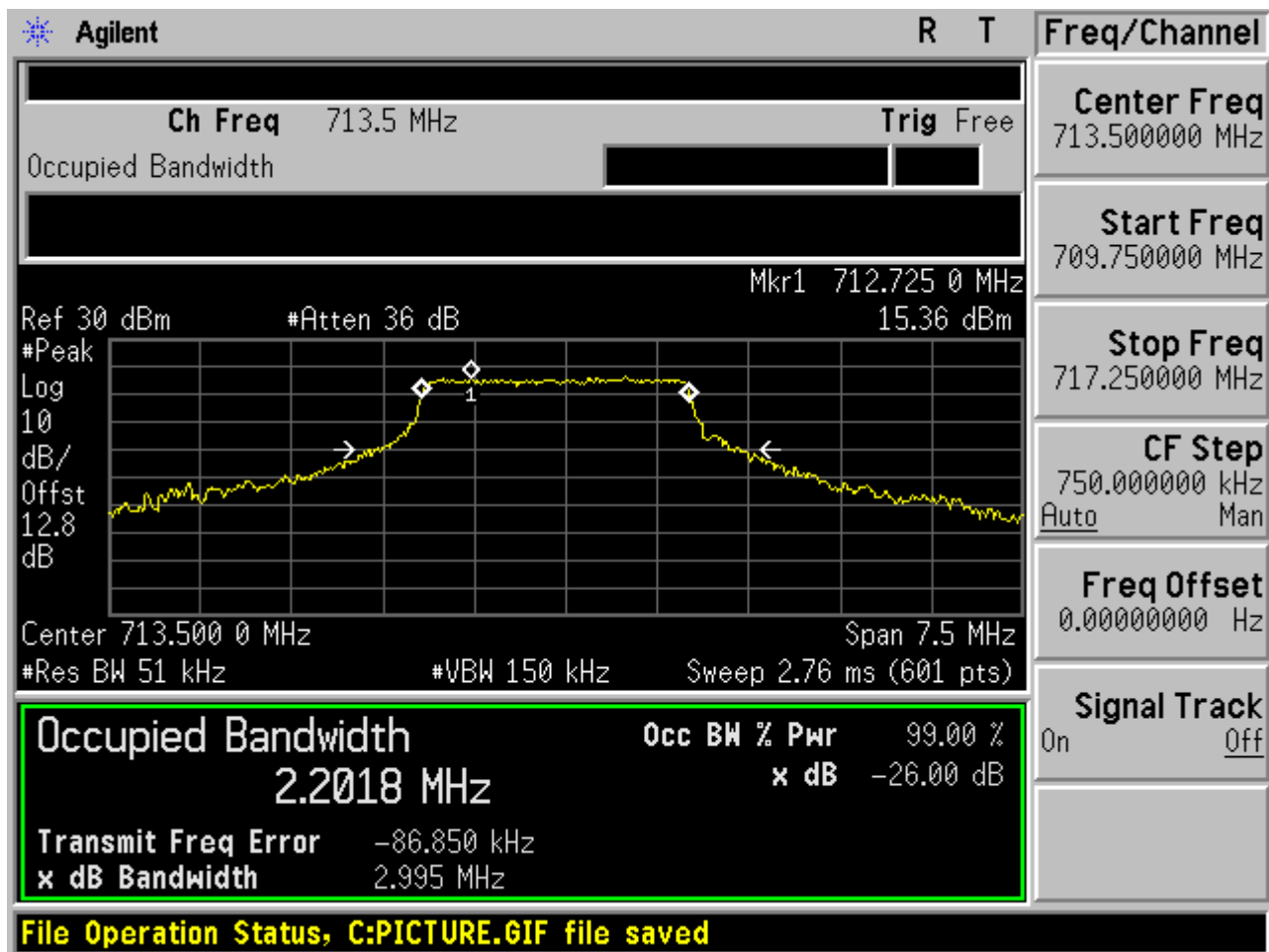
1.2.1.3.1 16QAM/1RB # 0





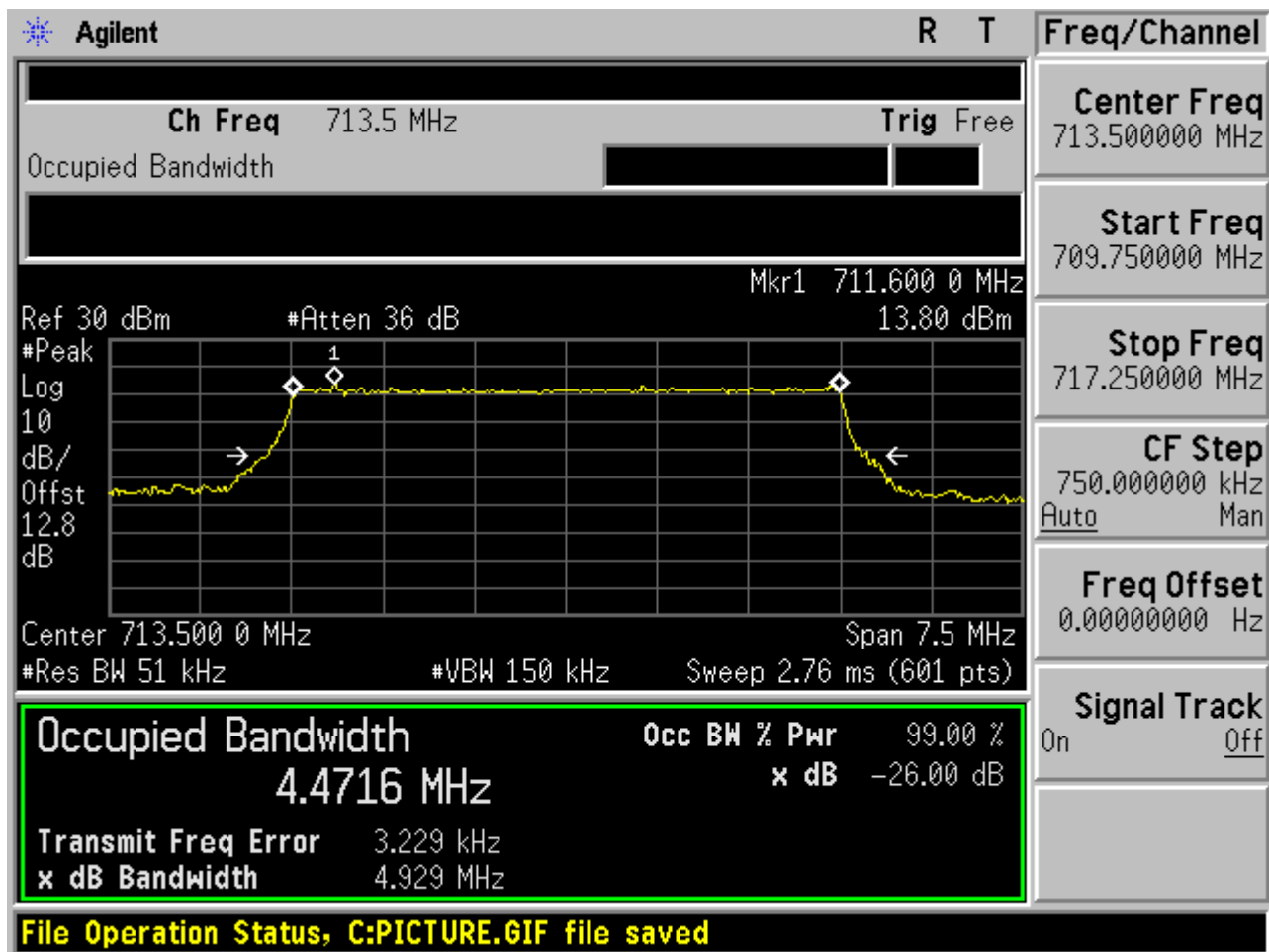


1.2.1.3.3 16QAM /non-1RB #mid/2





1.2.1.3.4 16QAM /full RBs

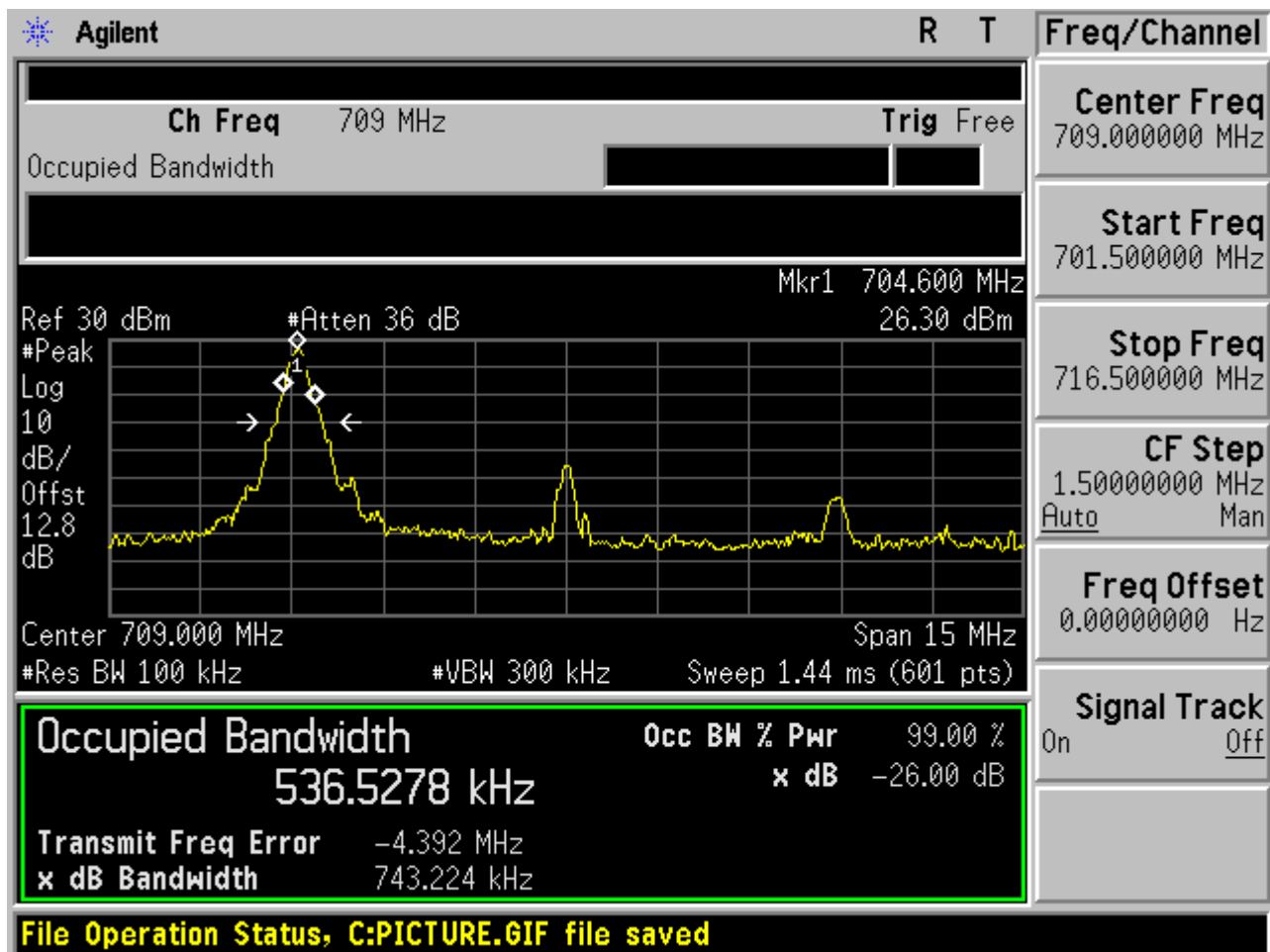




1.2.2 Channel Bandwidth = 10 MHz

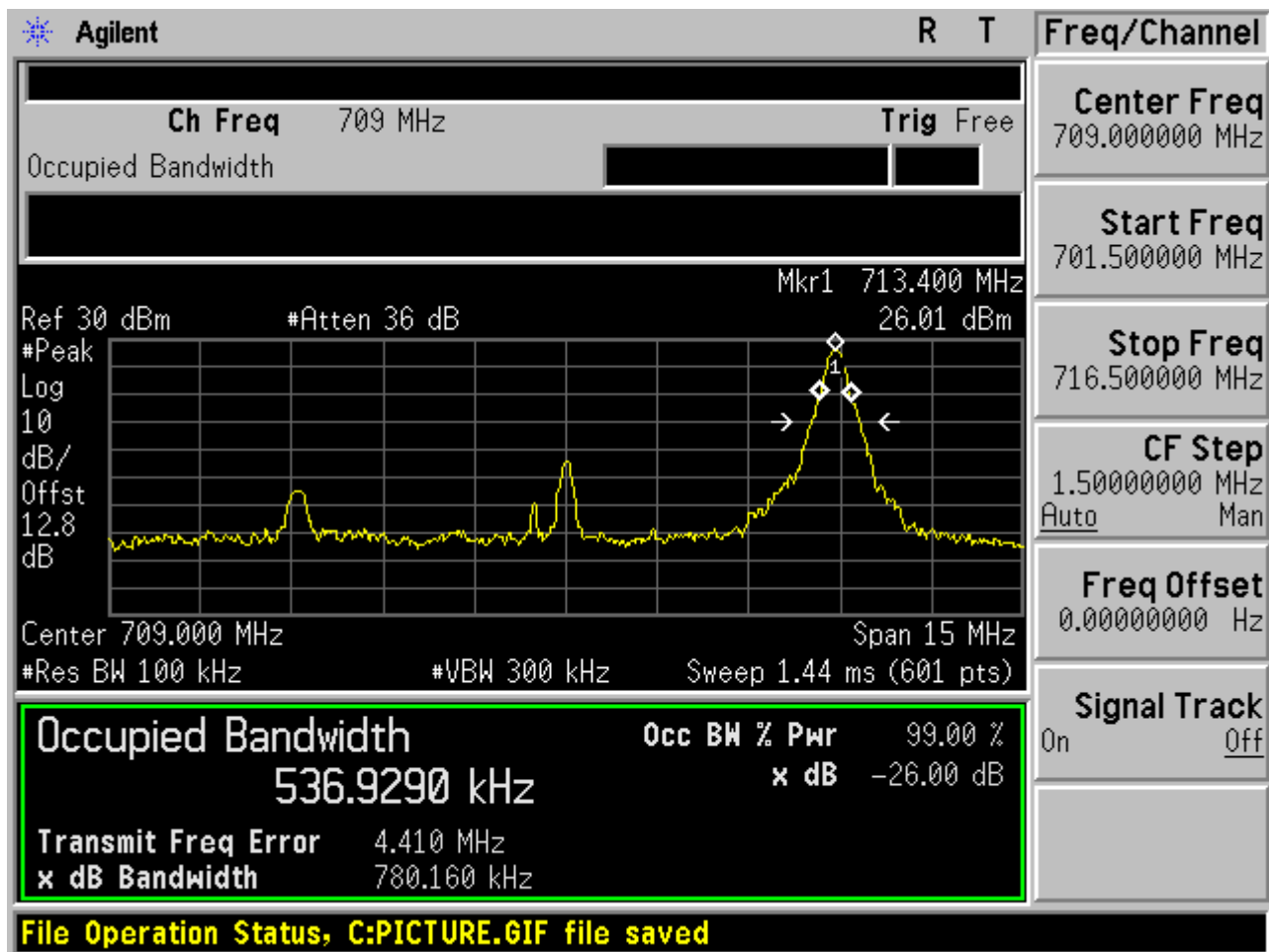
1.2.2.1 Channel =B

1.2.2.1.1 16QAM/1RB # 0



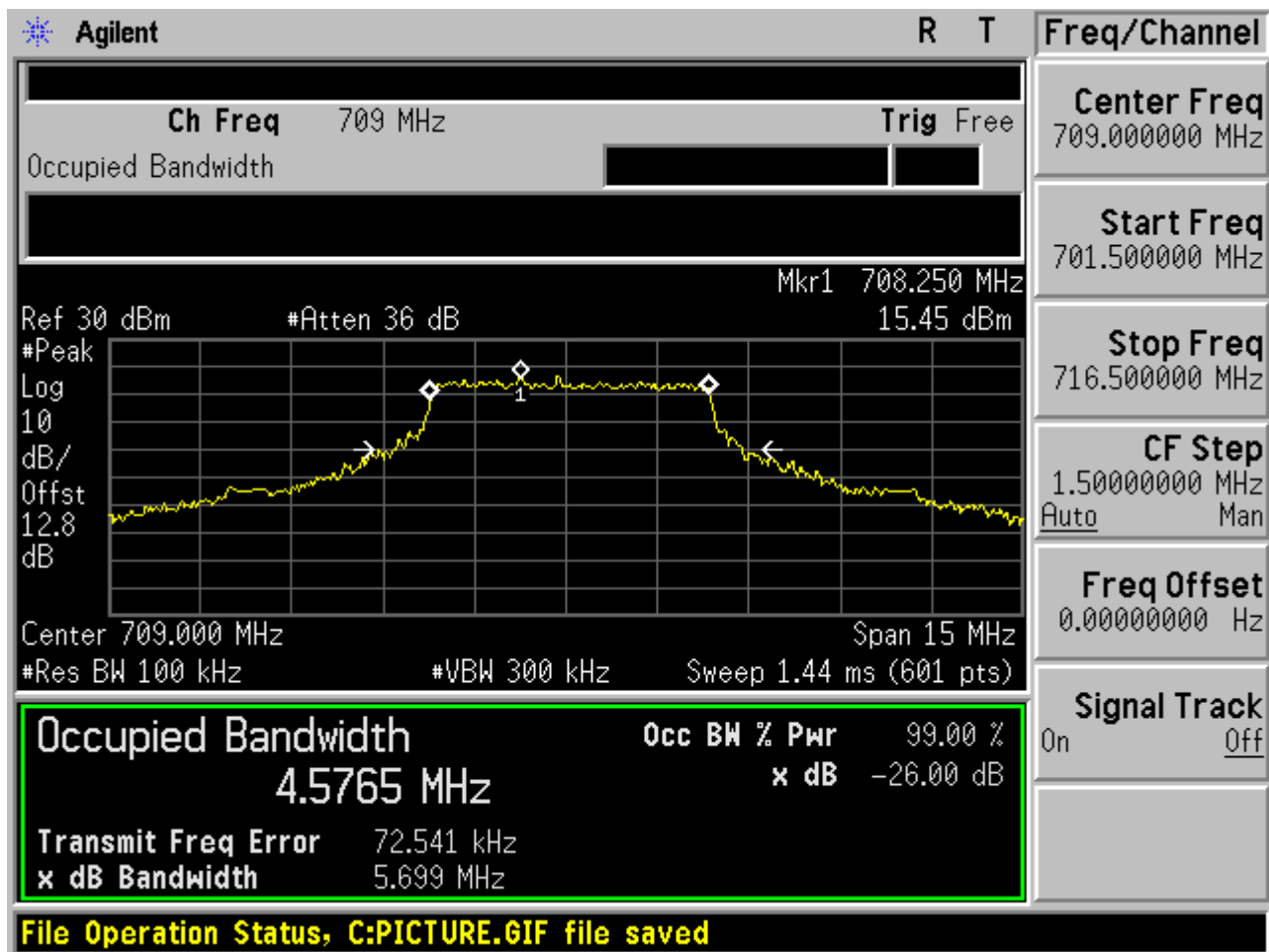


1.2.2.1.2 16QAM /1RB # max



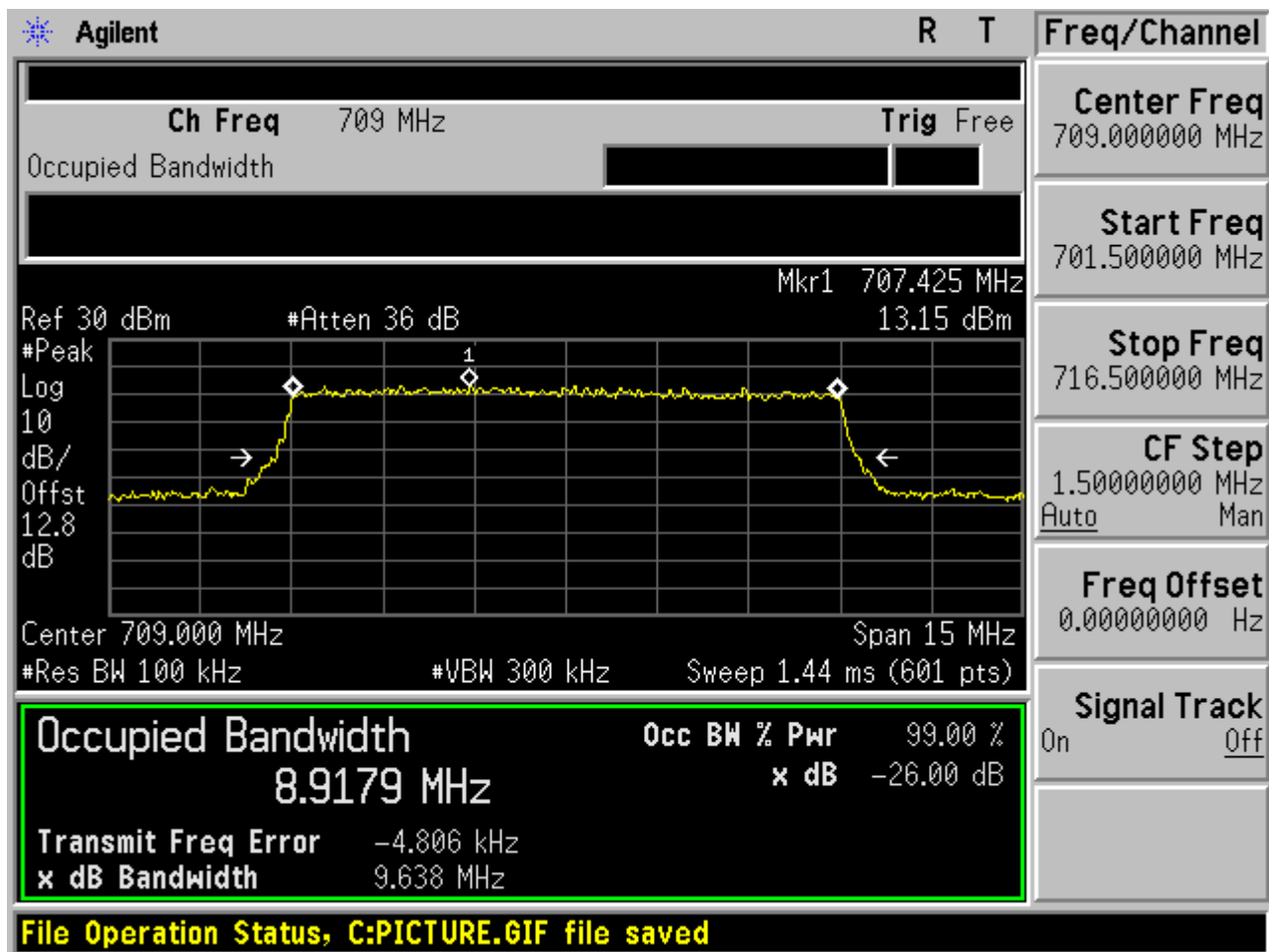


1.2.2.1.3 16QAM /non-1RB #mid/2





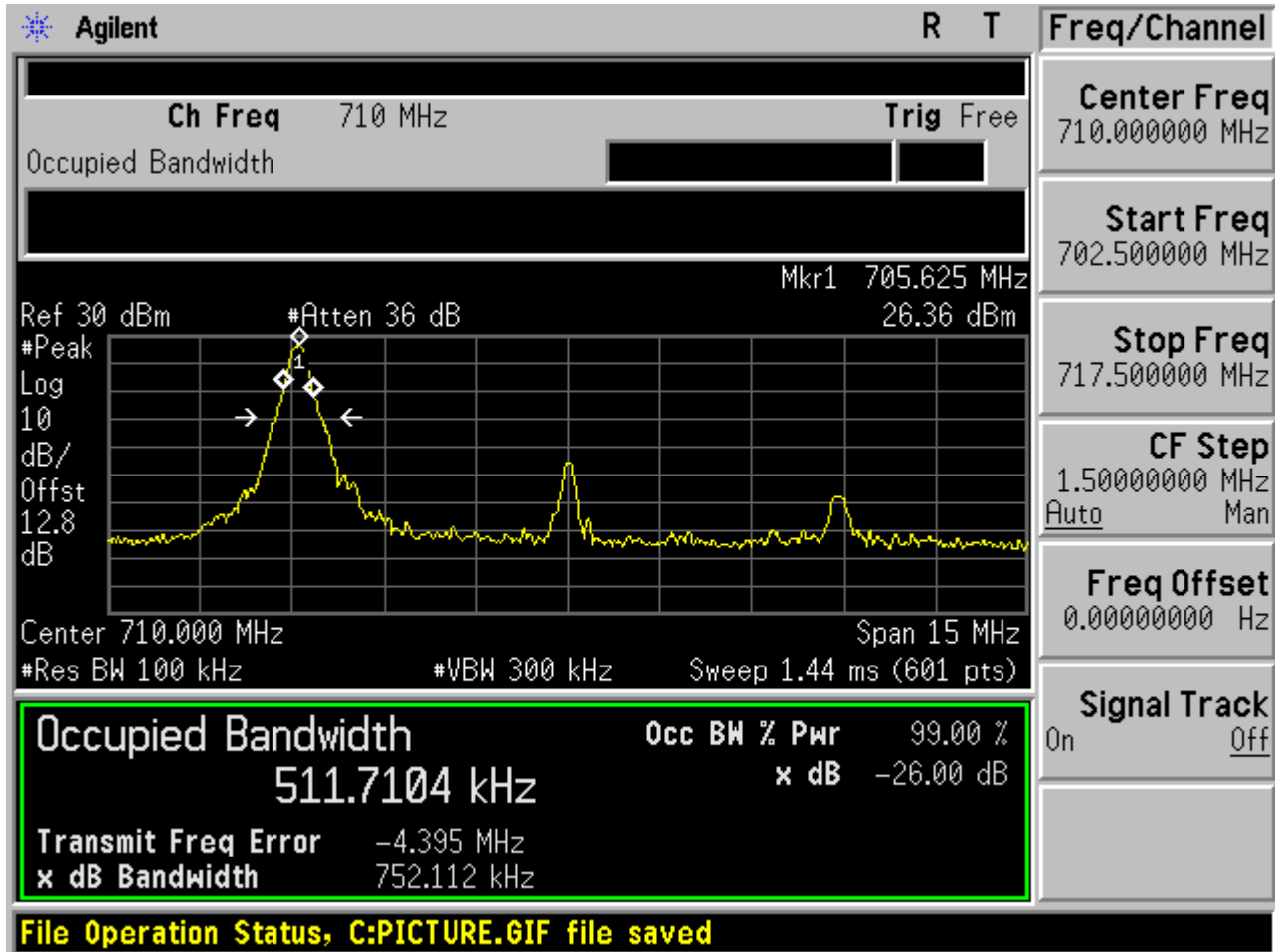
1.2.2.1.4 16QAM /full RBs





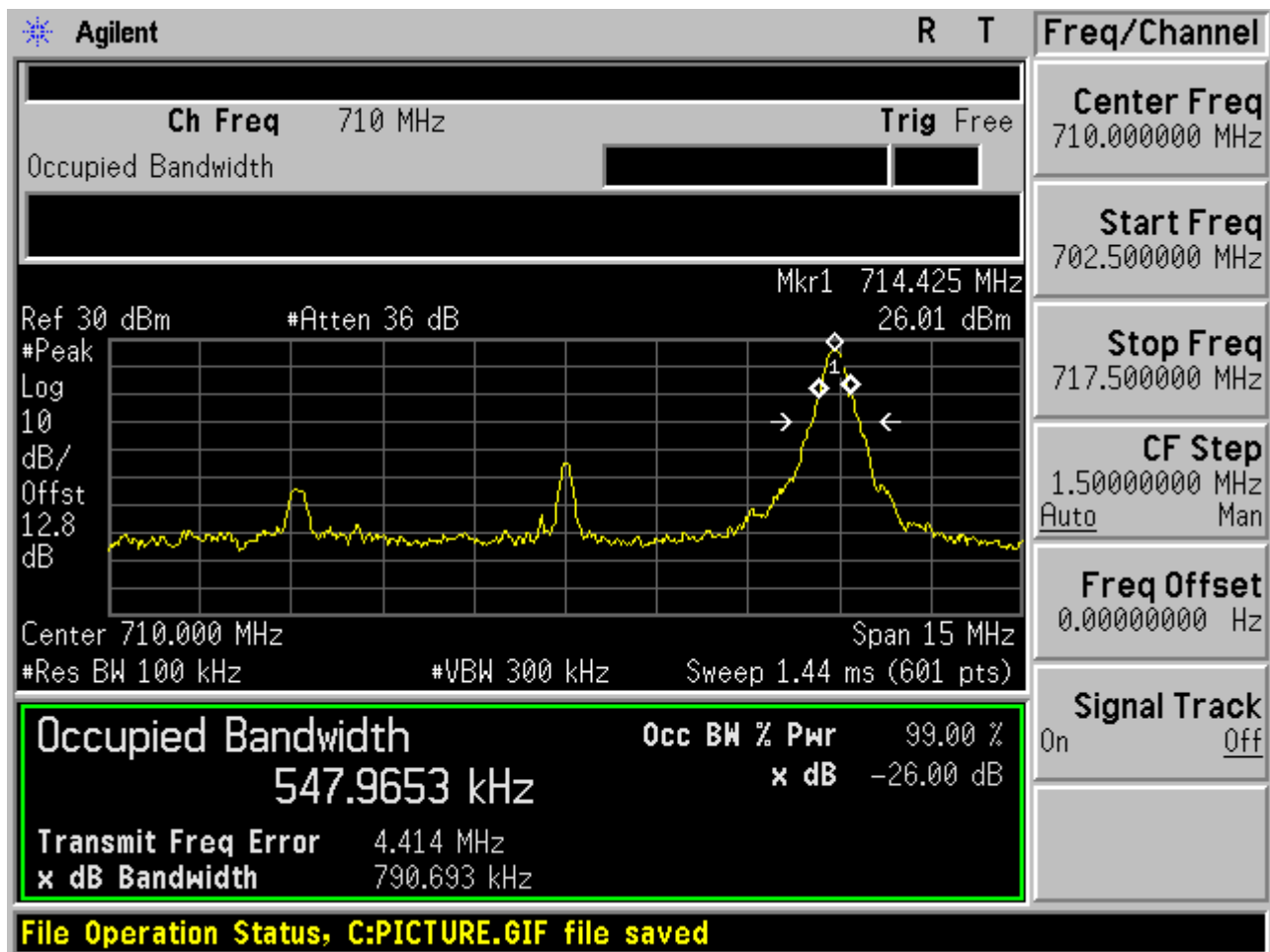
1.2.2.2 Channel =M

1.2.2.2.1 16QAM/1RB # 0



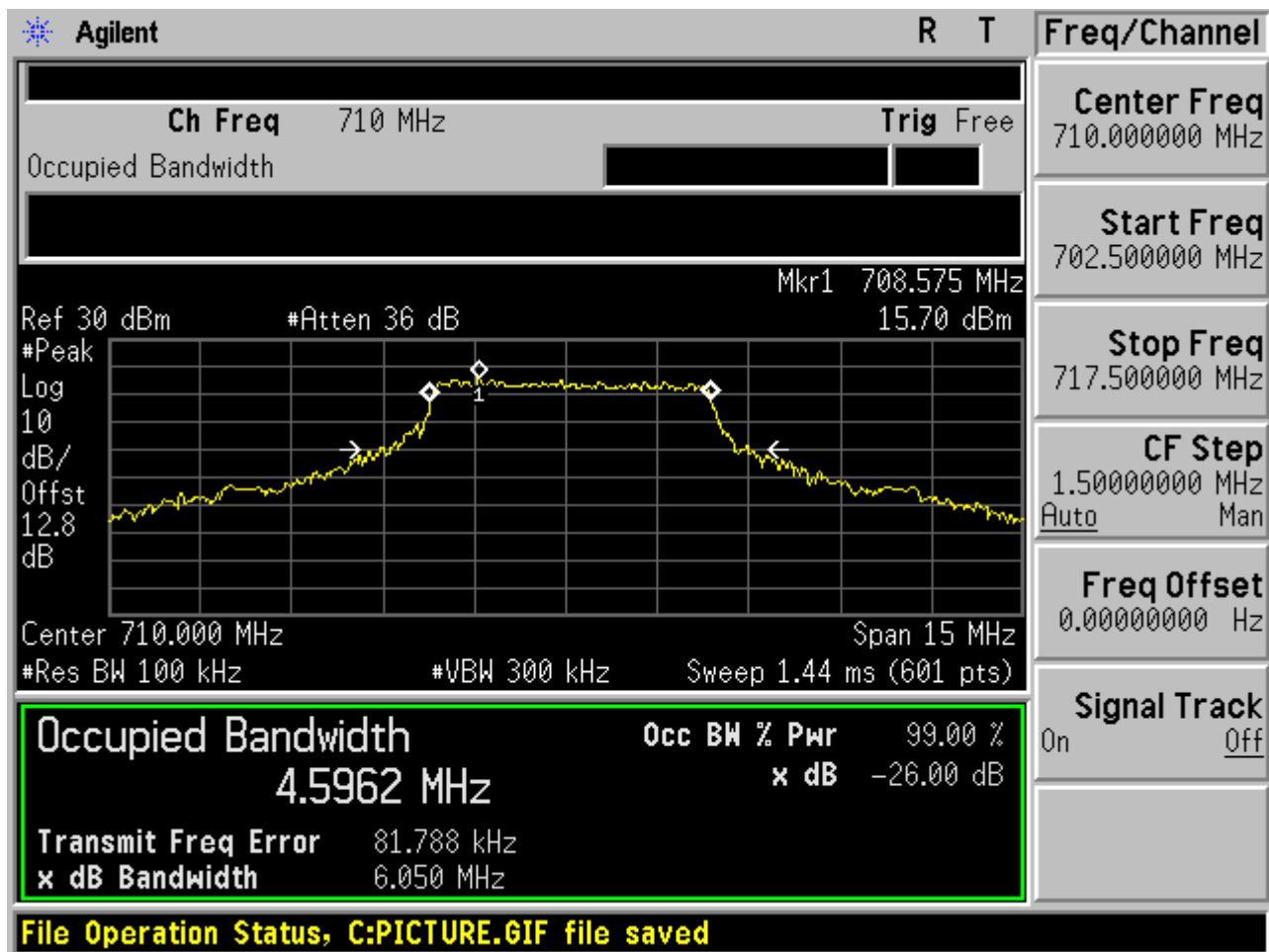


1.2.2.2.2 16QAM /1RB # max

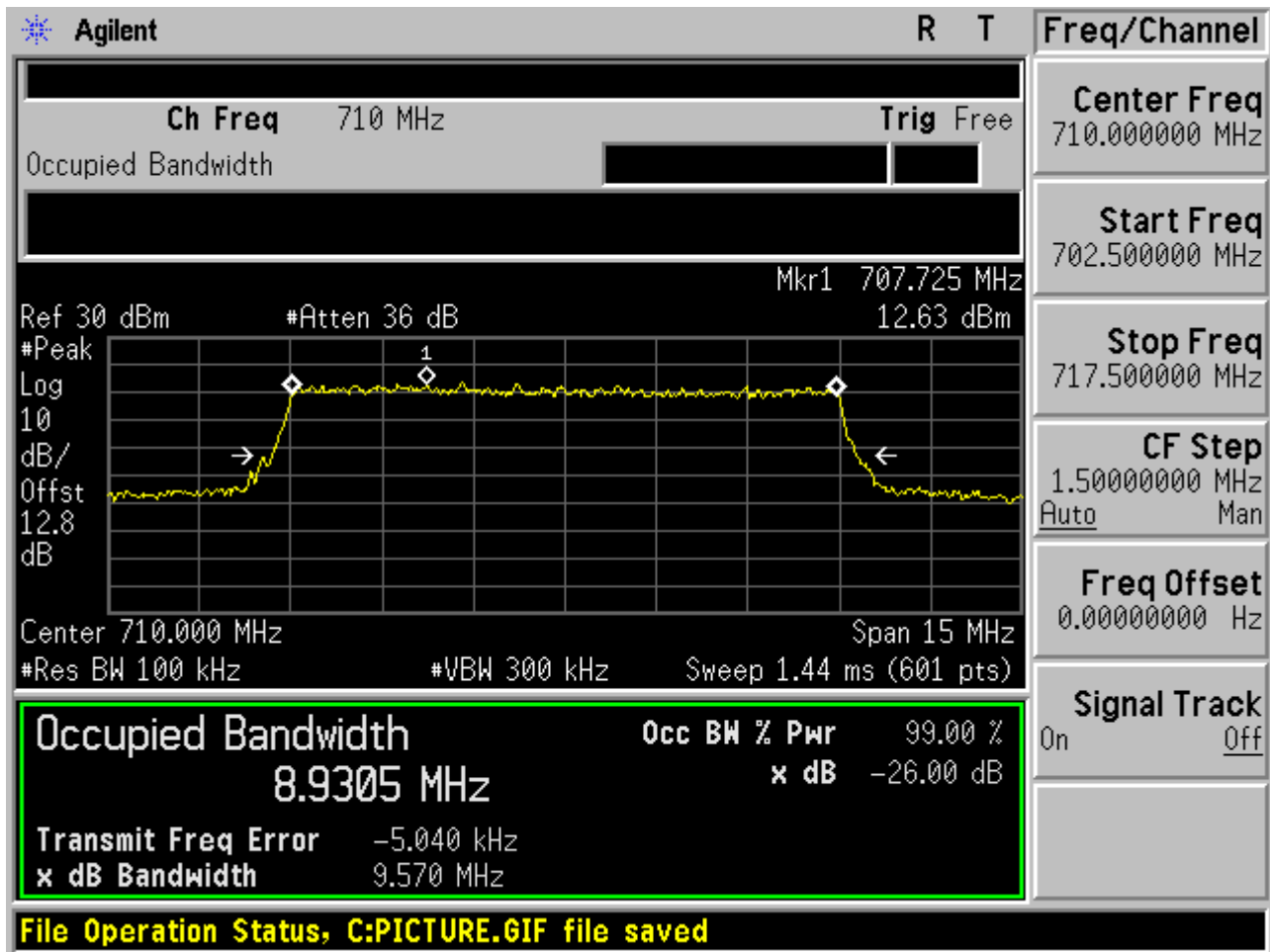




1.2.2.2.3 16QAM /non-1RB #mid/2



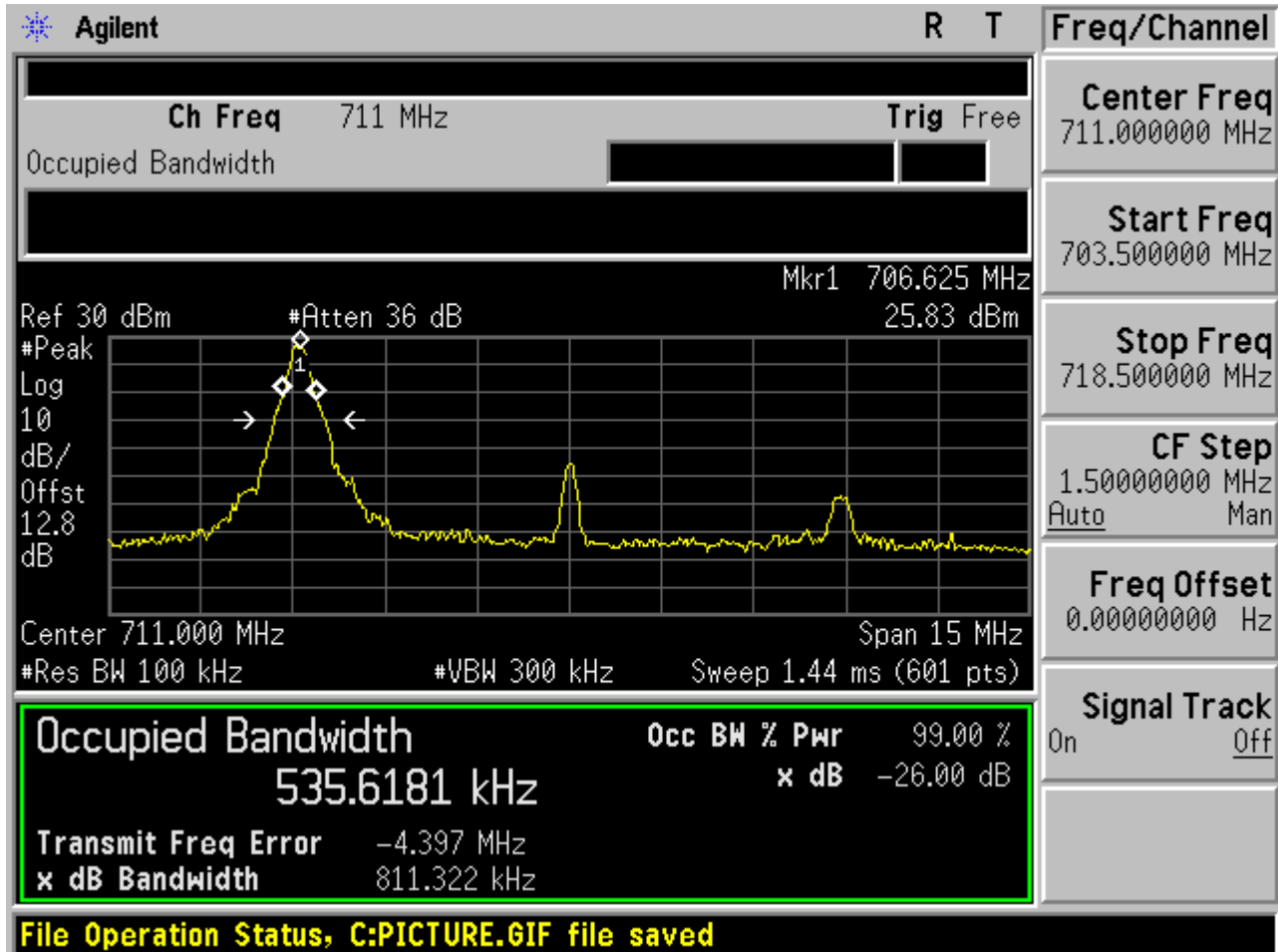
1.2.2.2.4 16QAM /full RBs





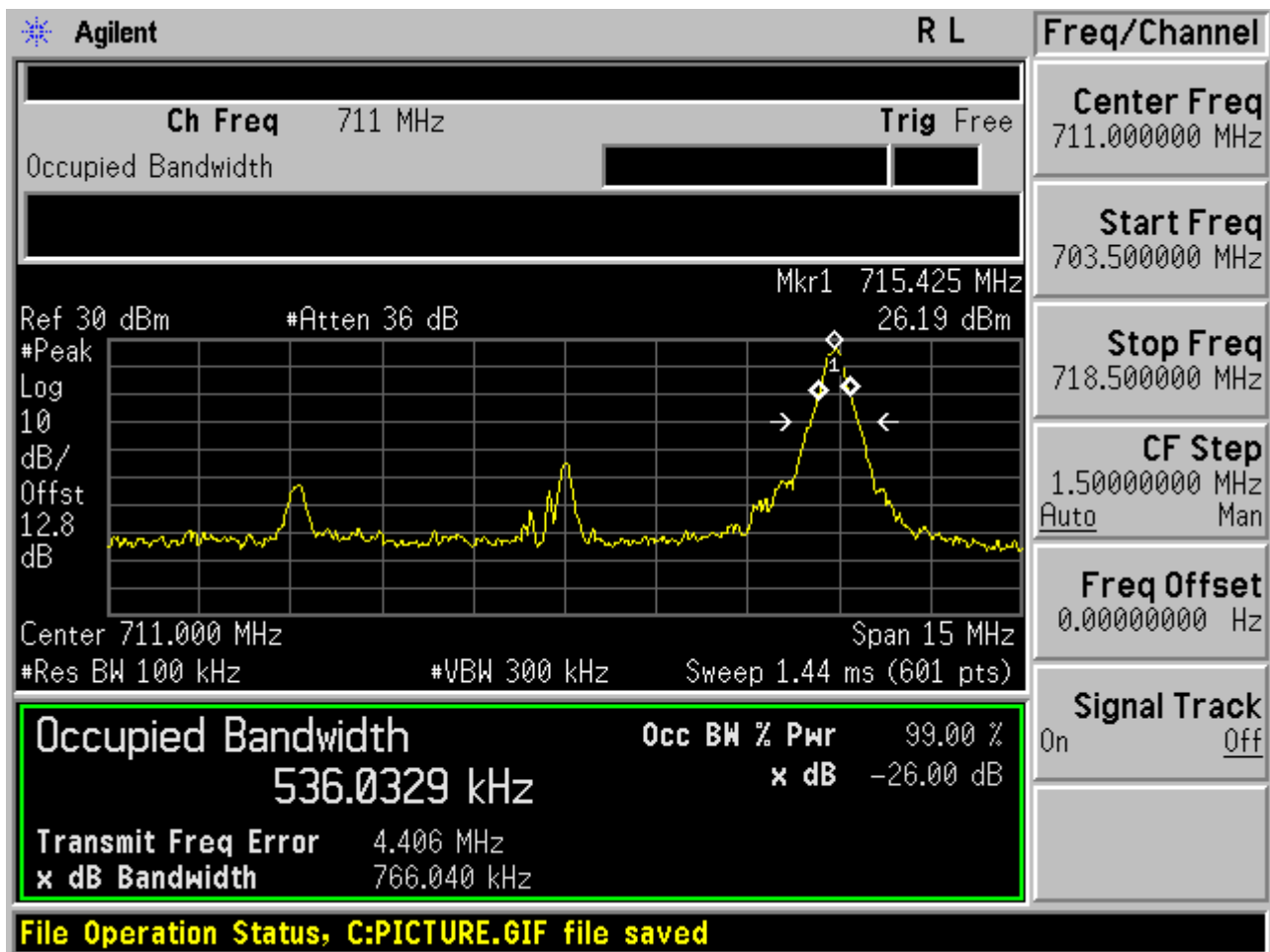
1.2.2.3 Channel =T

1.2.2.3.1 16QAM/1RB # 0



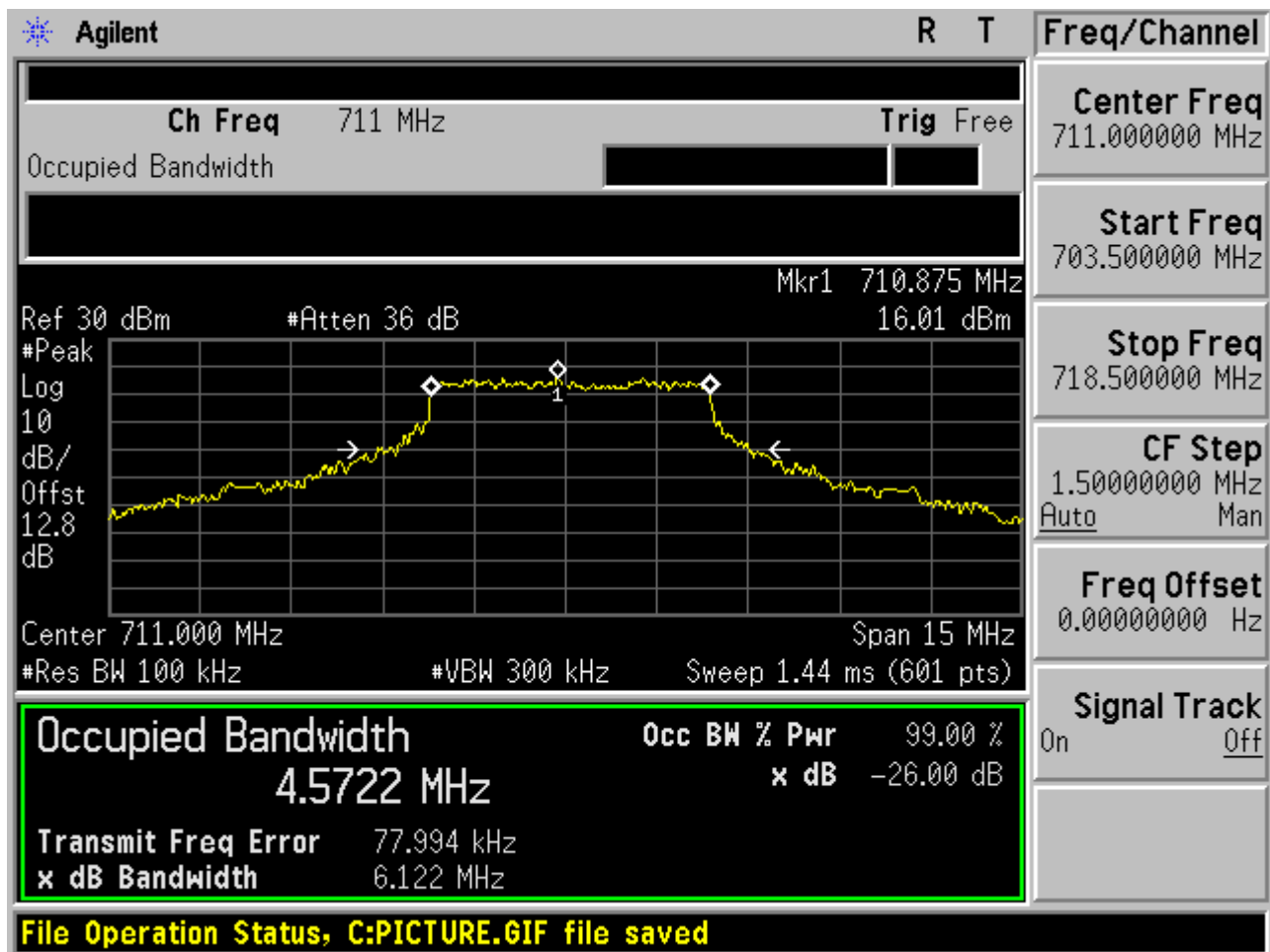


1.2.2.3.2 16QAM /1RB # max



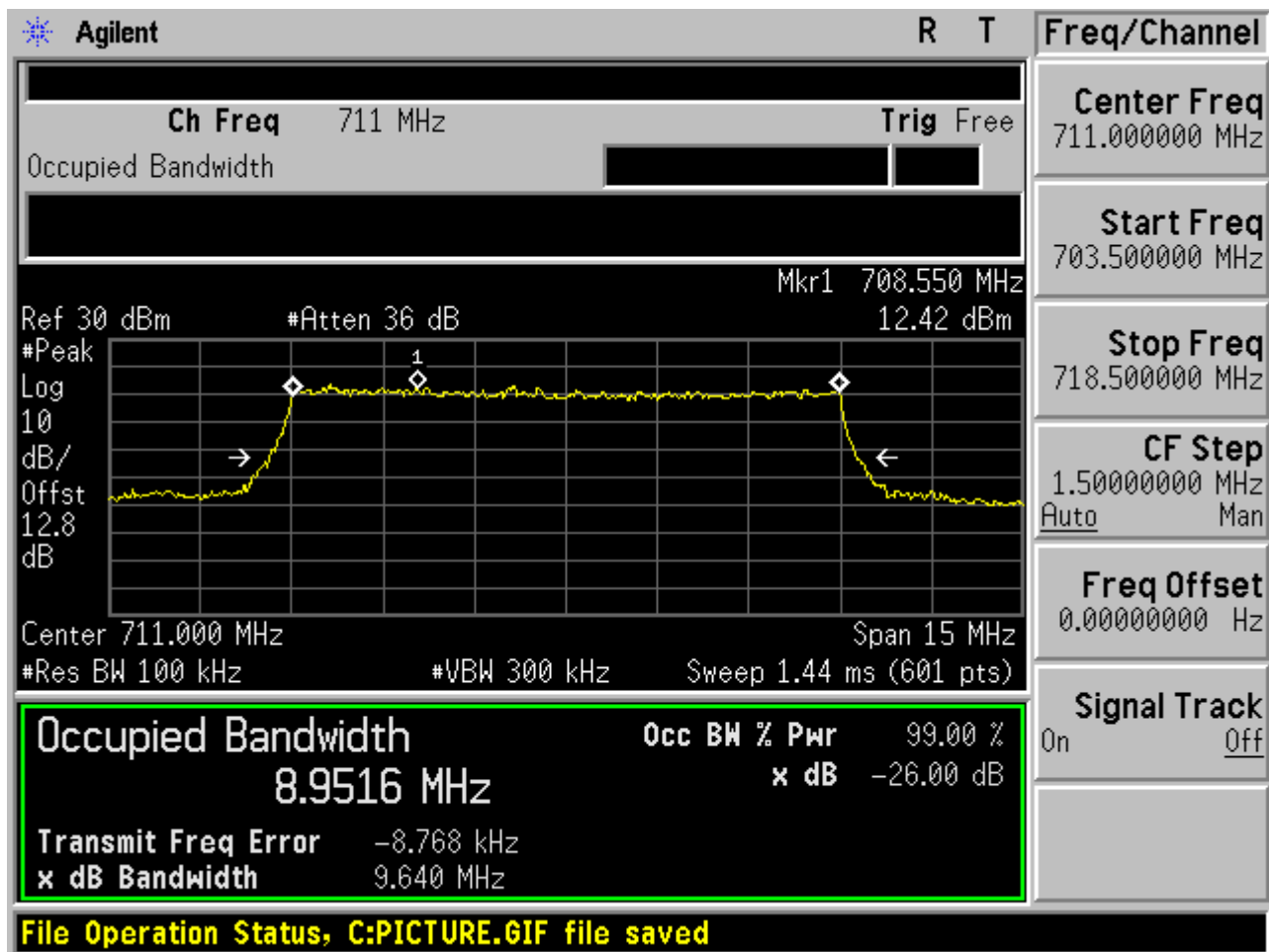


1.2.2.3.3 16QAM /non-1RB #mid/2





1.2.2.3.4 16QAM /full RBs



-----END-----



Appendix D

Band Edges Compliance According to FCC Part 2.1051 & 27.53(g)



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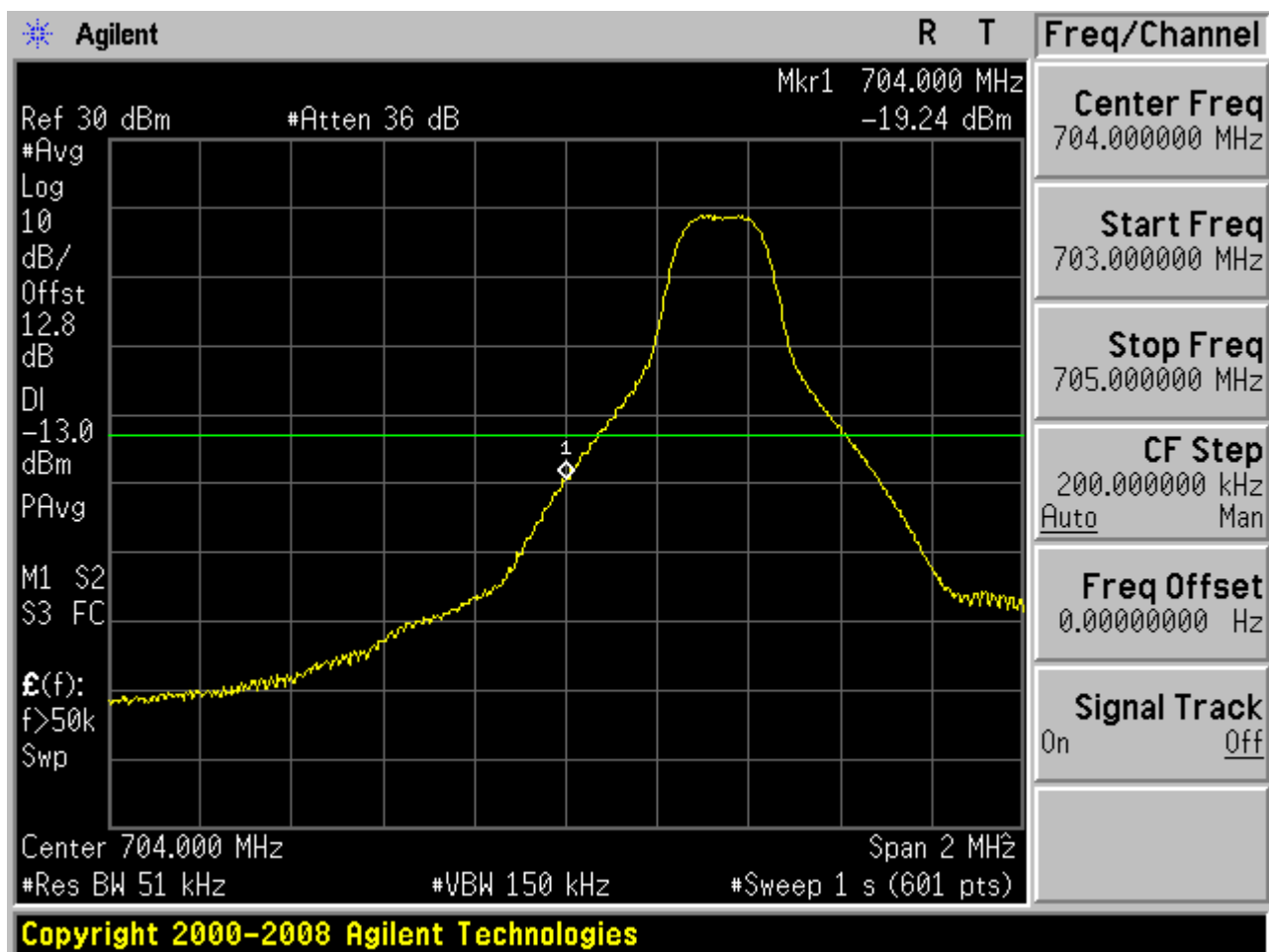
1 For Band 17

1.1 Test Mode=TM1

1.1.1 Channel Bandwidth = 5 MHz

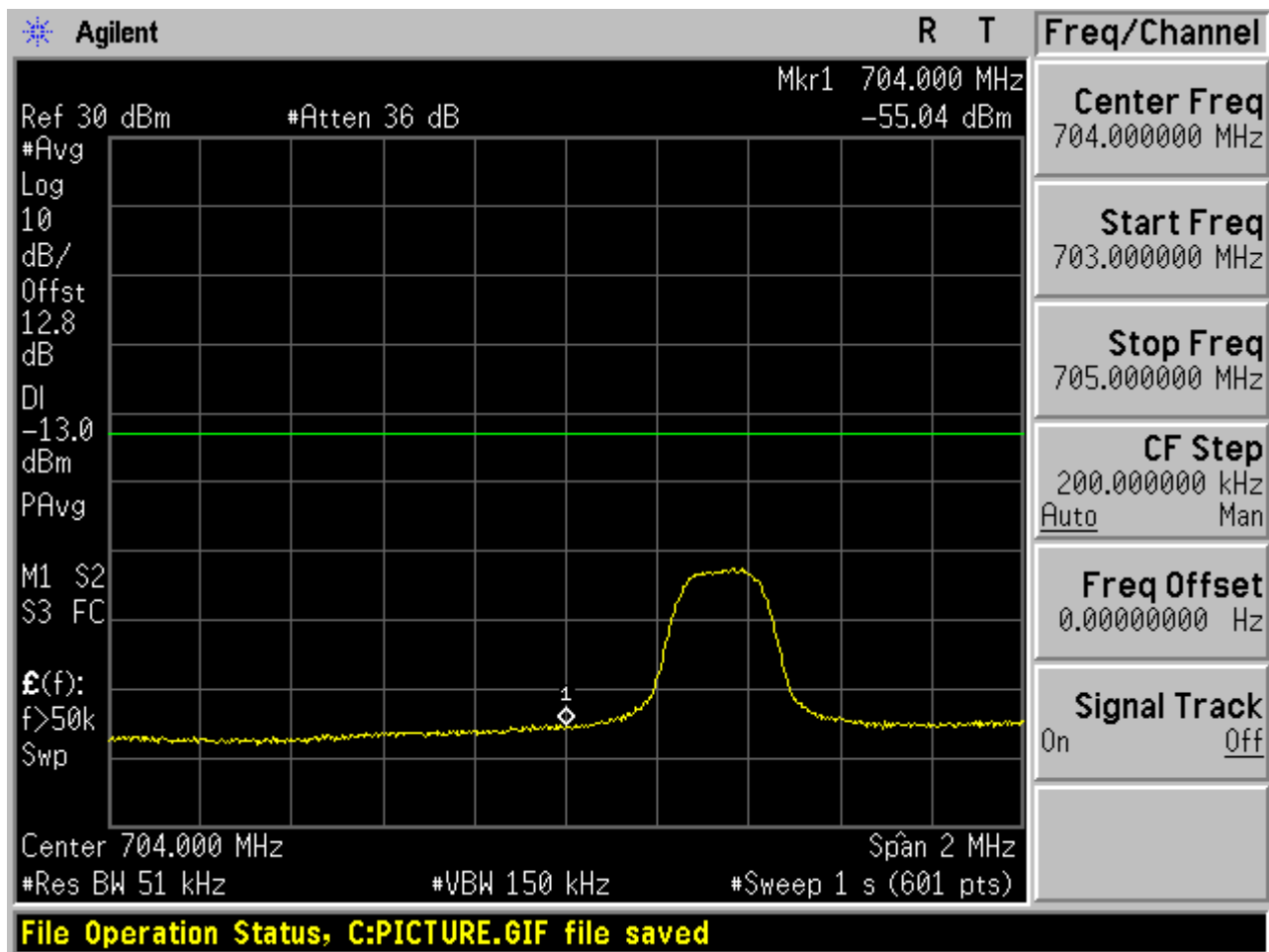
1.1.1.1 Channel= B

1.1.1.1.1 QPSK/1RB # 0



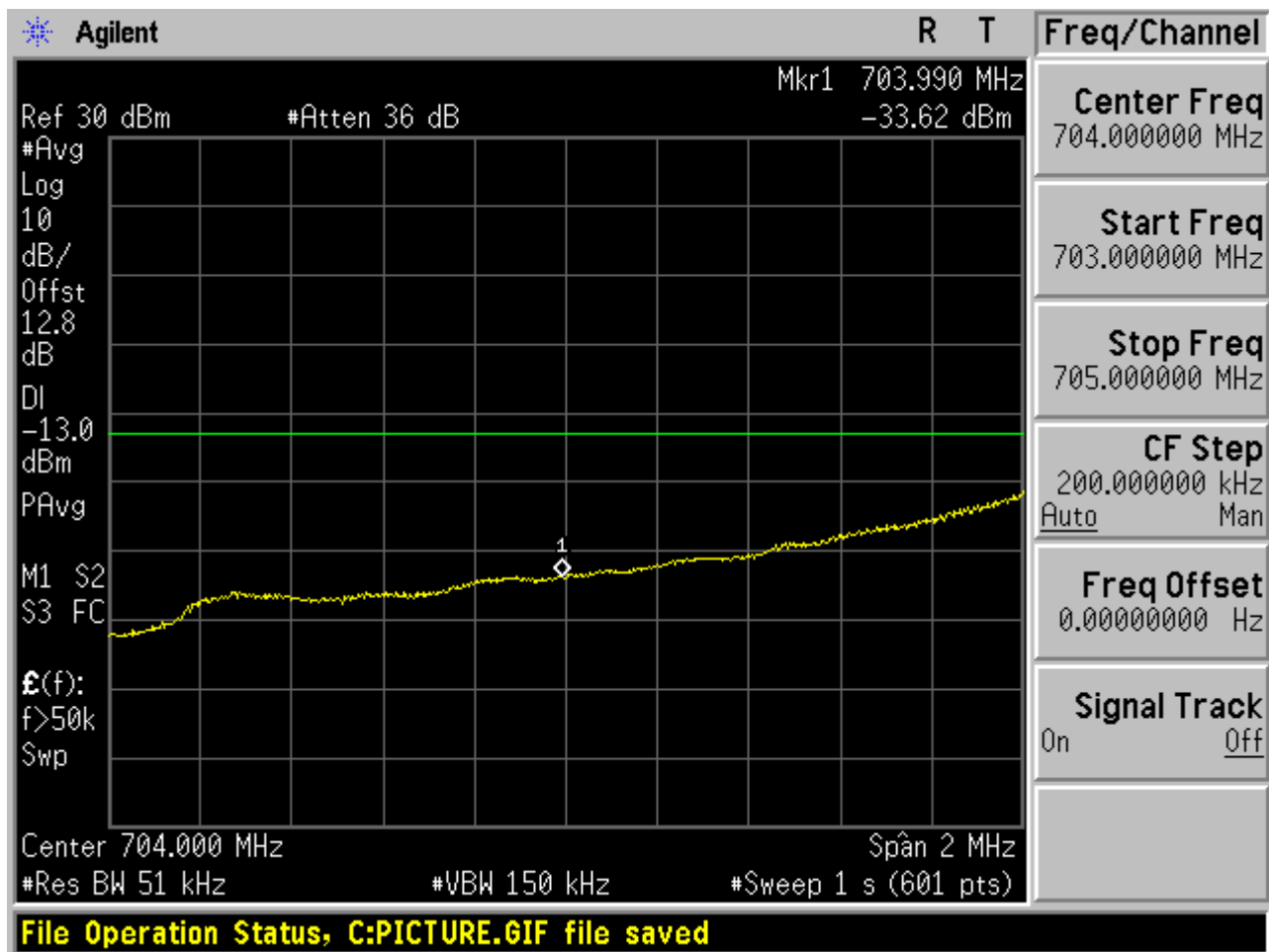


1.1.1.1.2 QPSK/1RB # max

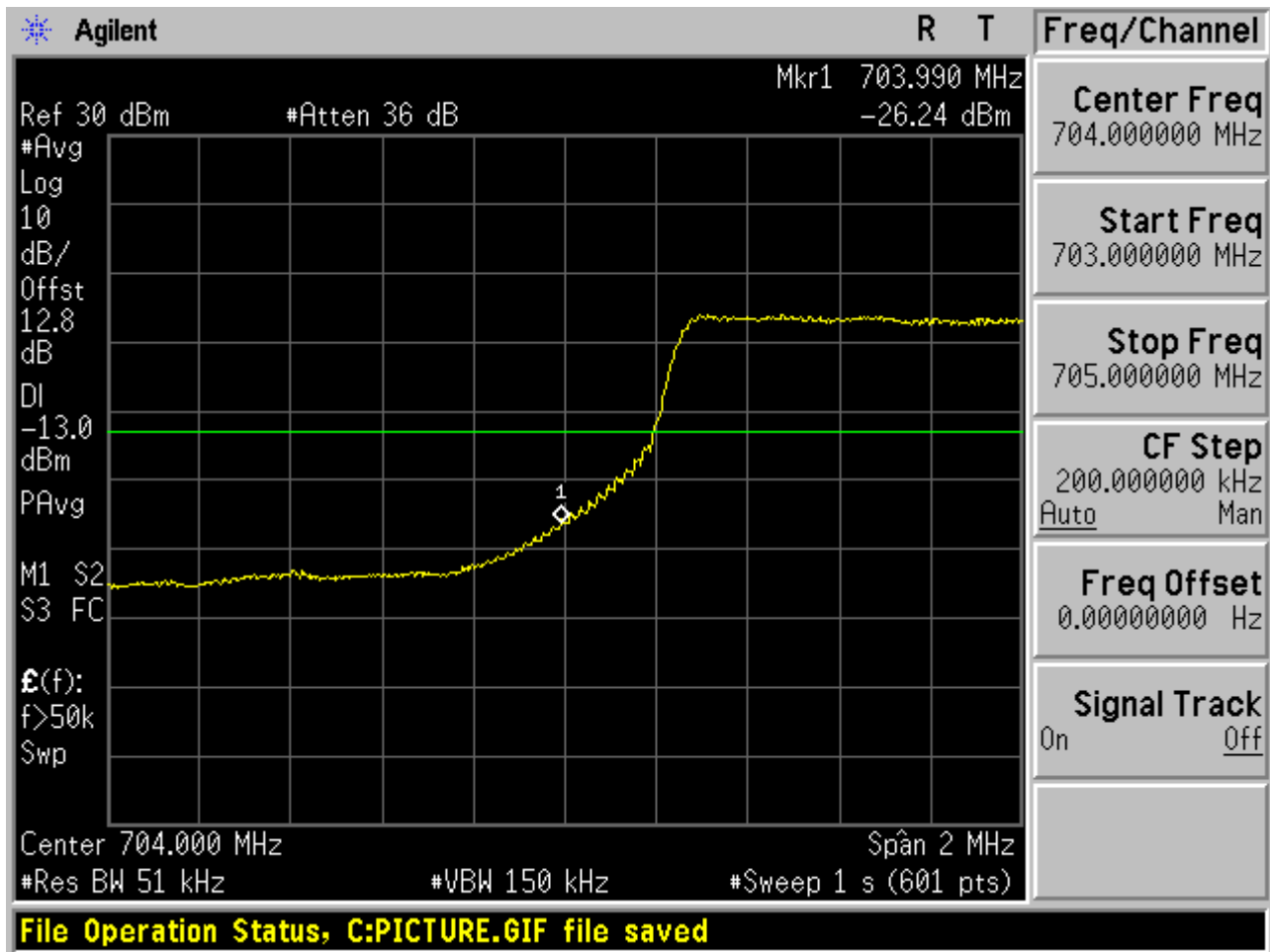




1.1.1.1.3 QPSK/non-1RB #mid/2



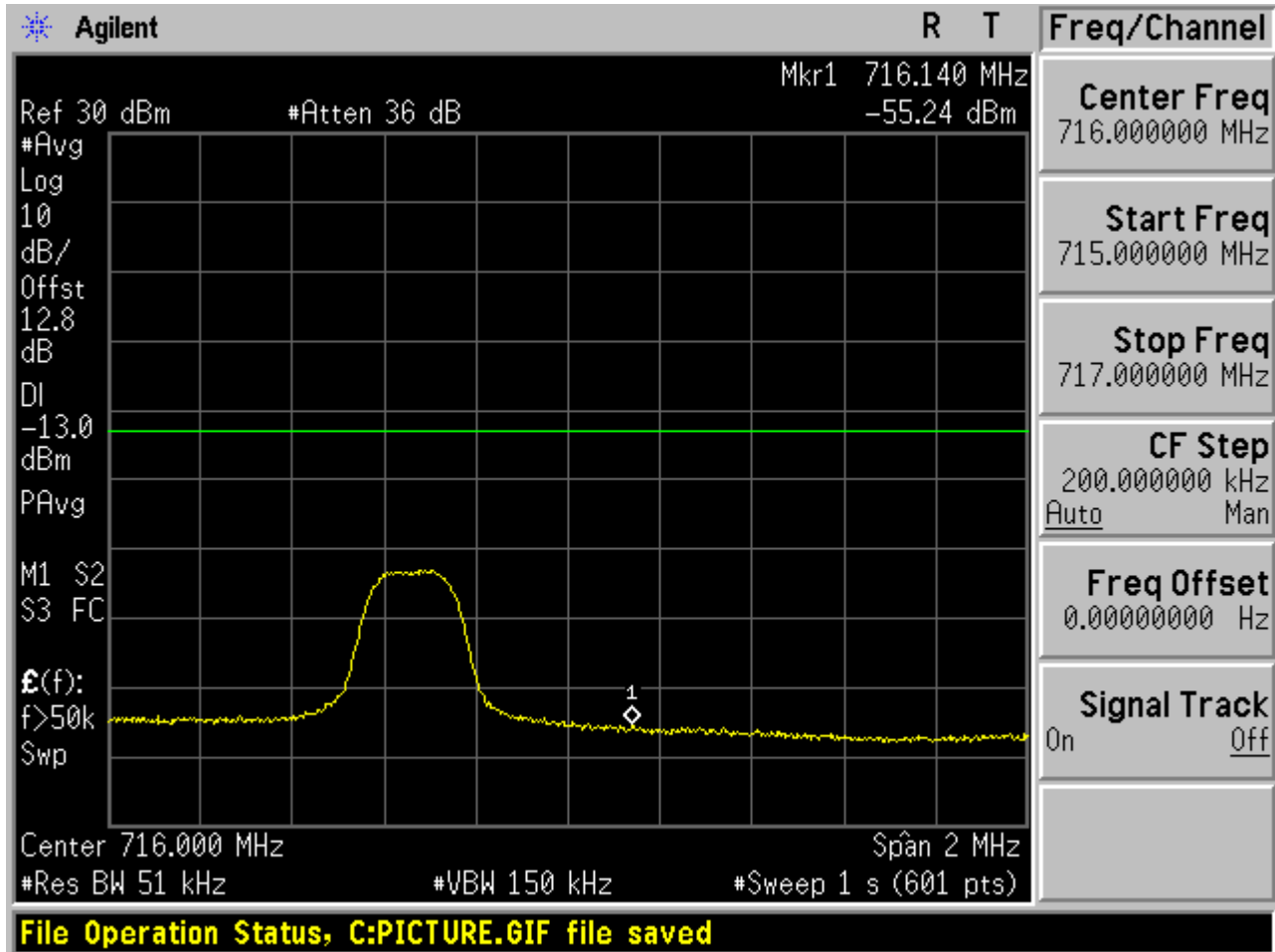
1.1.1.1.4 QPSK/full RBs





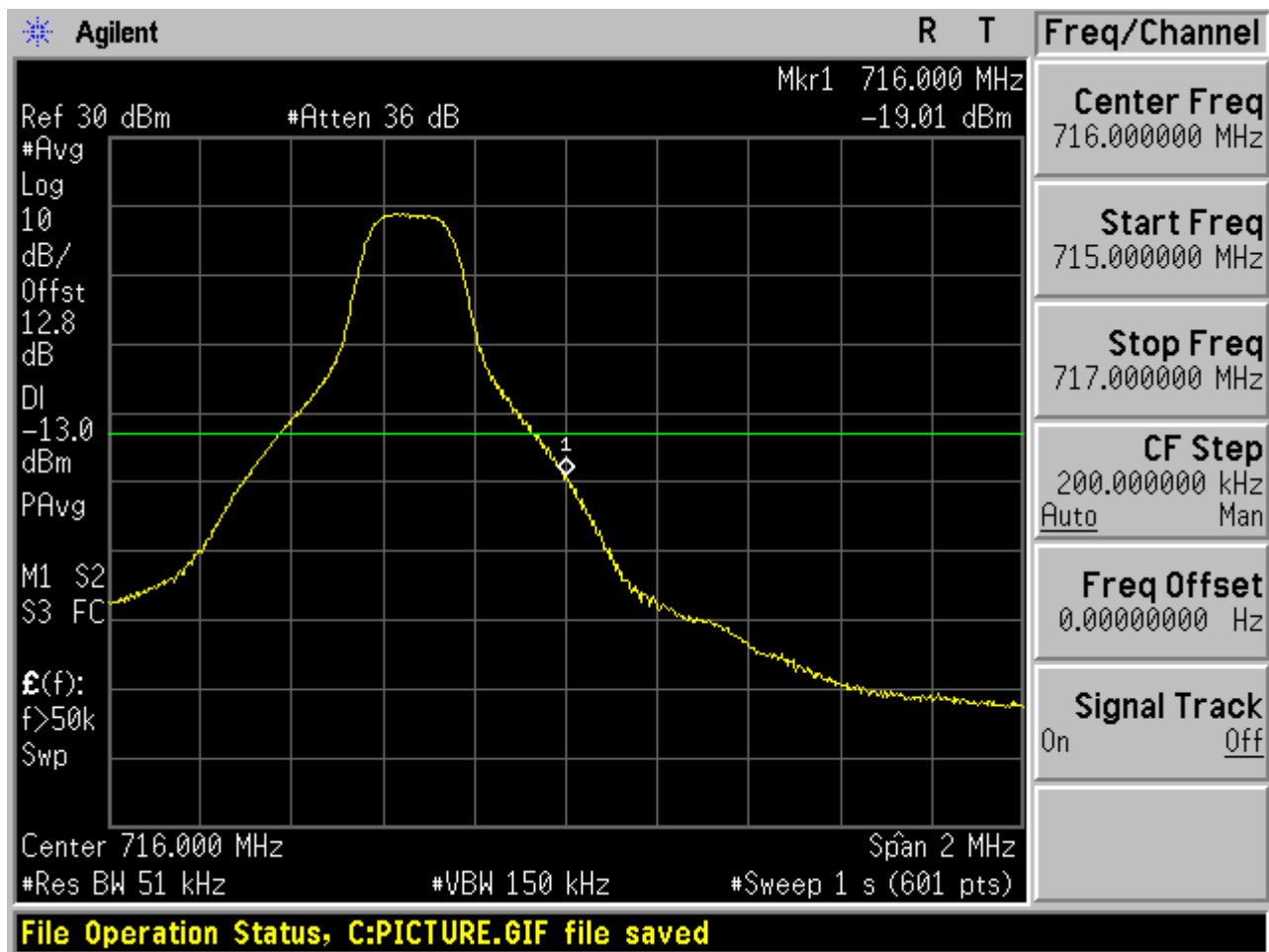
1.1.1.2 Channel= T

1.1.1.2.1 QPSK/1RB # 0



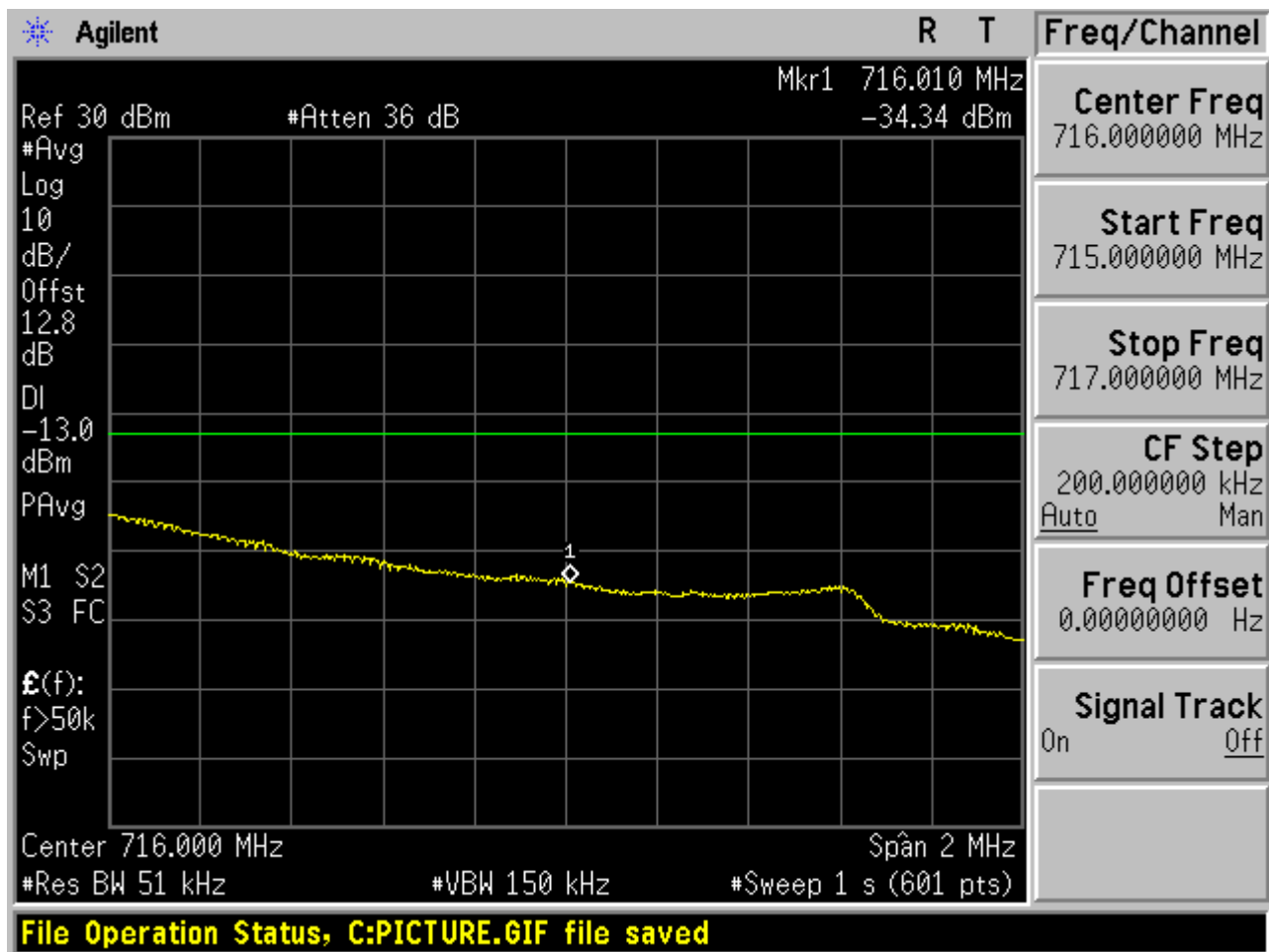


1.1.1.2.2 QPSK/1RB # max



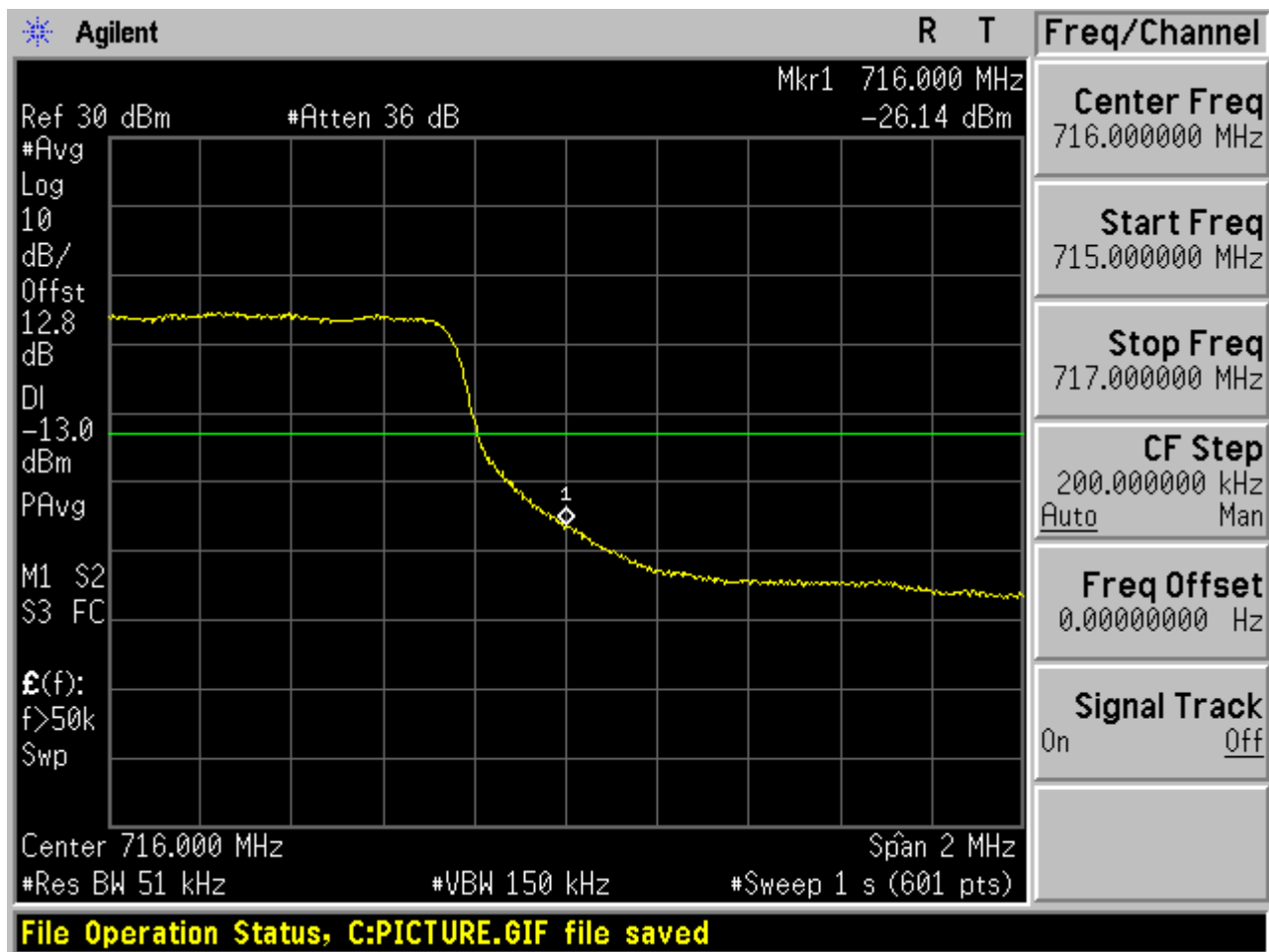


1.1.1.2.3 QPSK/non-1RB #mid/2





1.1.1.2.4 QPSK/full RBs

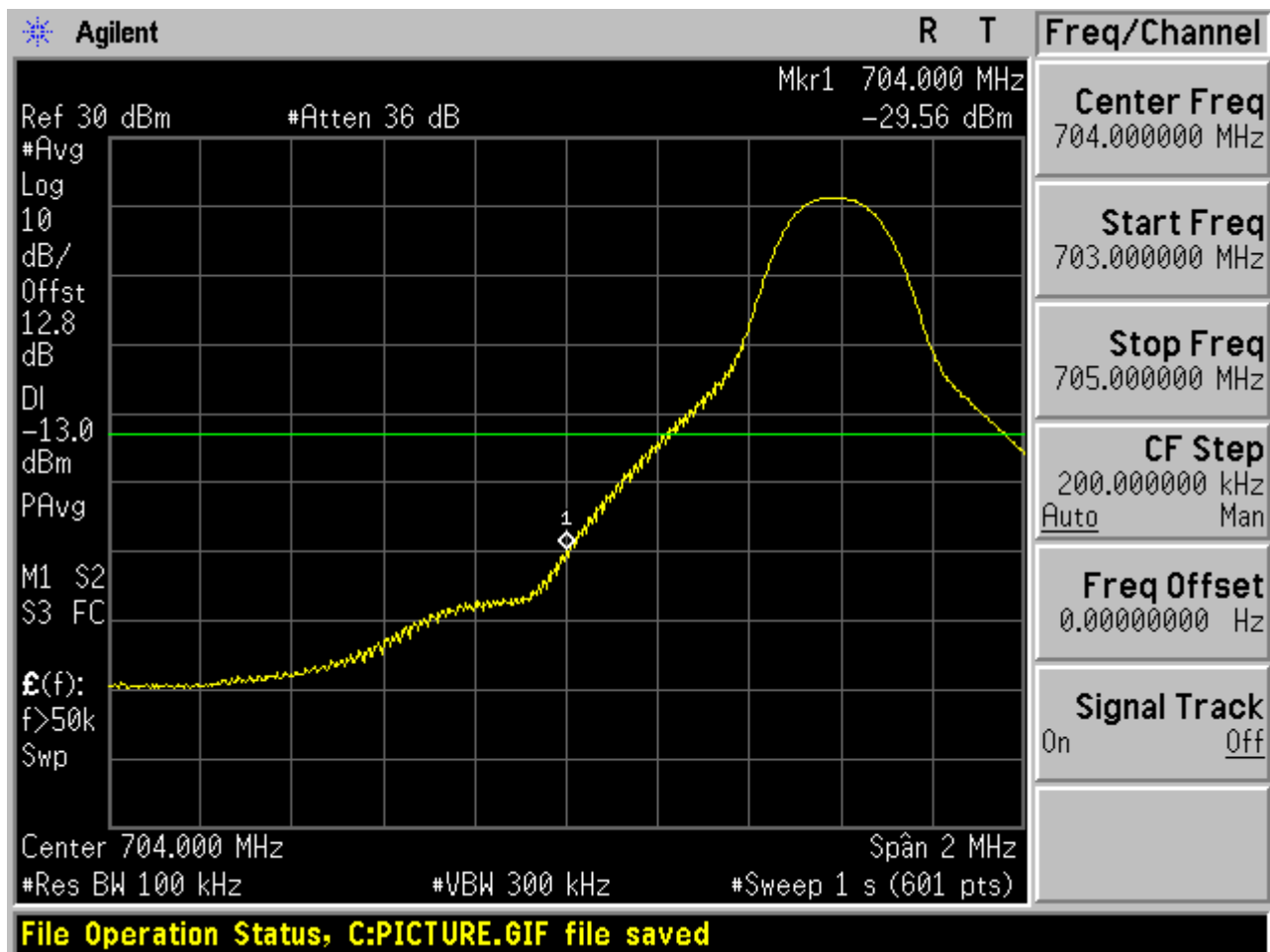




1.1.2 Channel Bandwidth = 10 MHz

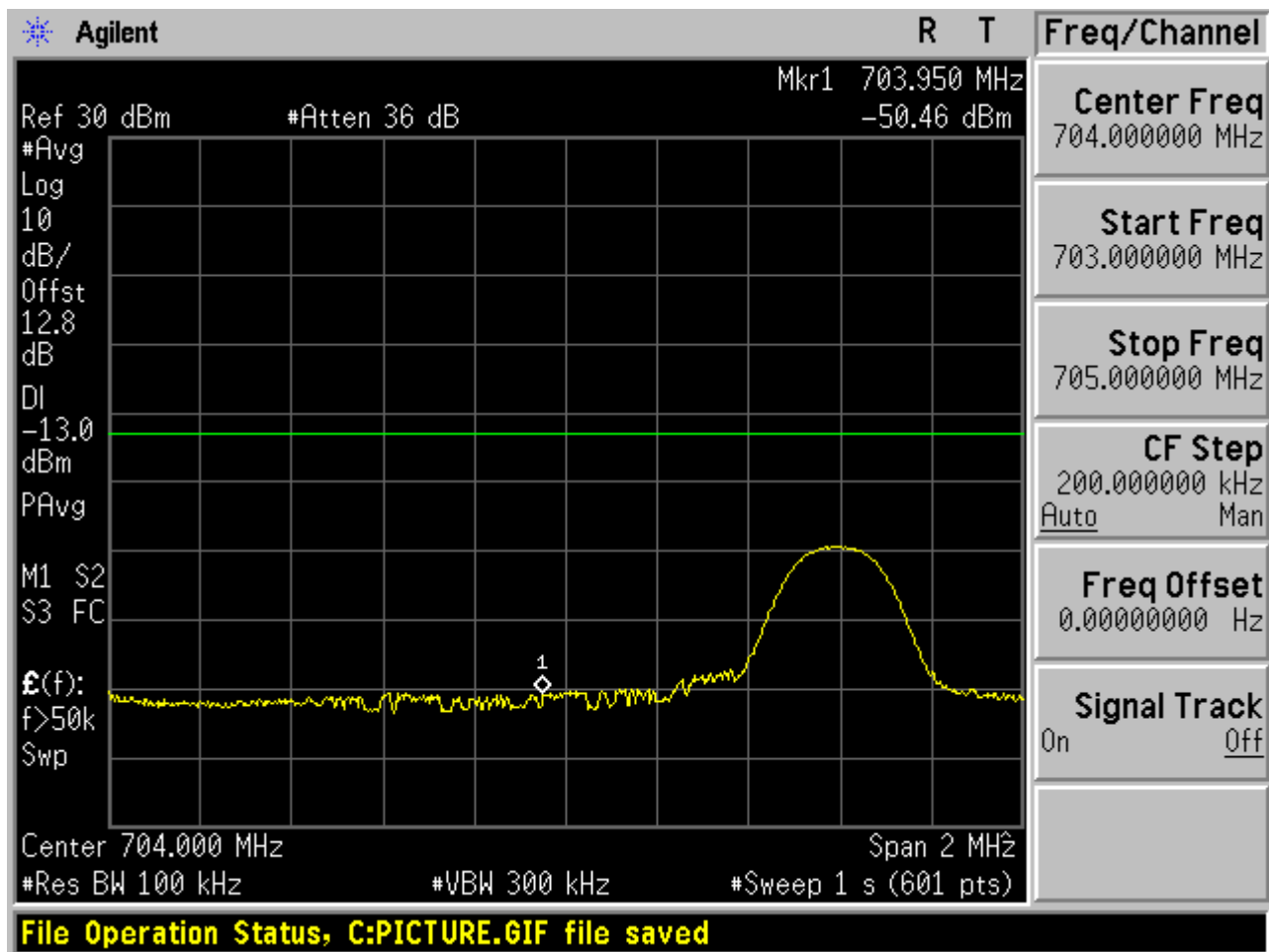
1.1.2.1 Channel= B

1.1.2.1.1 QPSK/1RB # 0



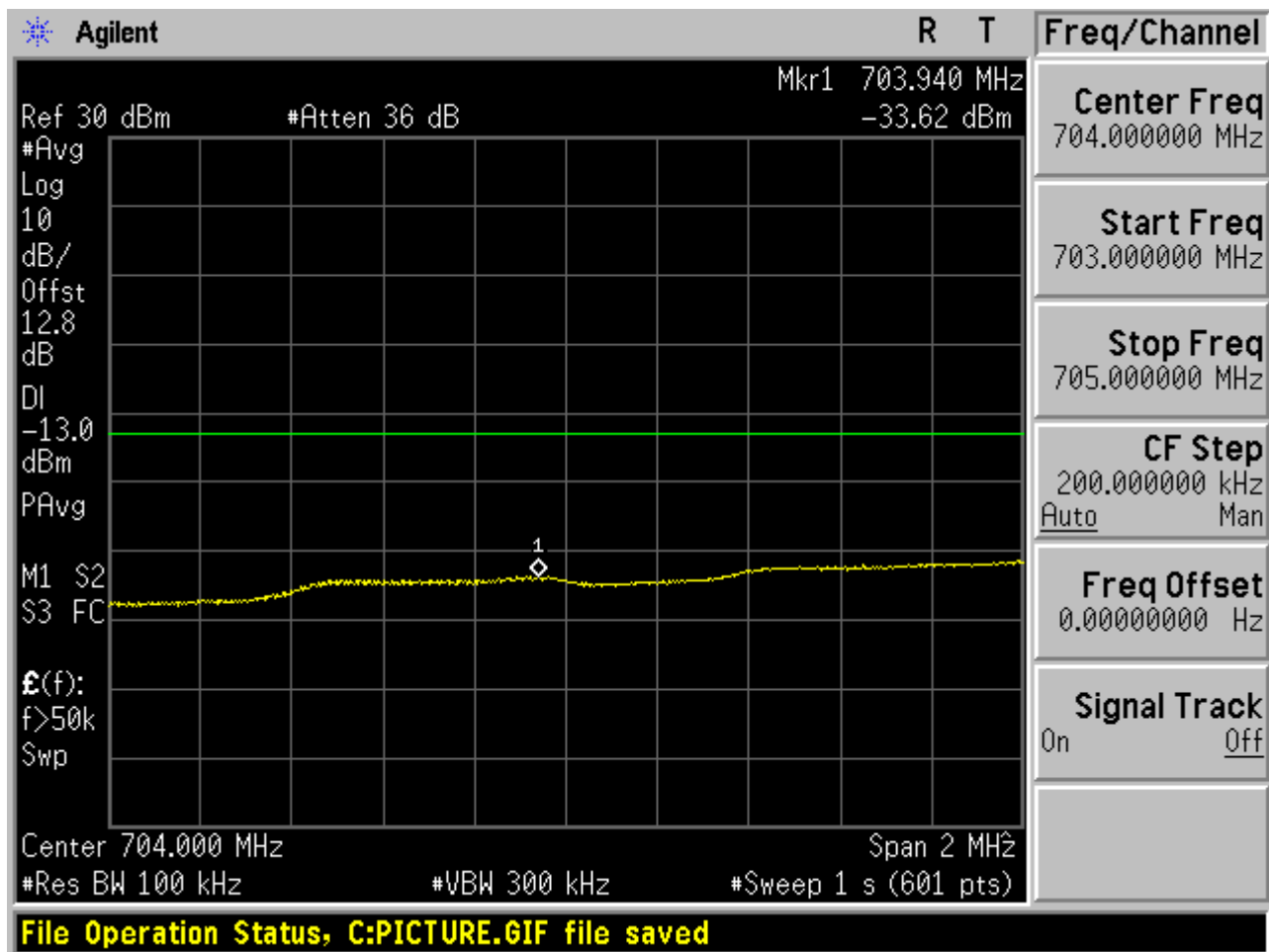


1.1.2.1.2 QPSK/1RB # max

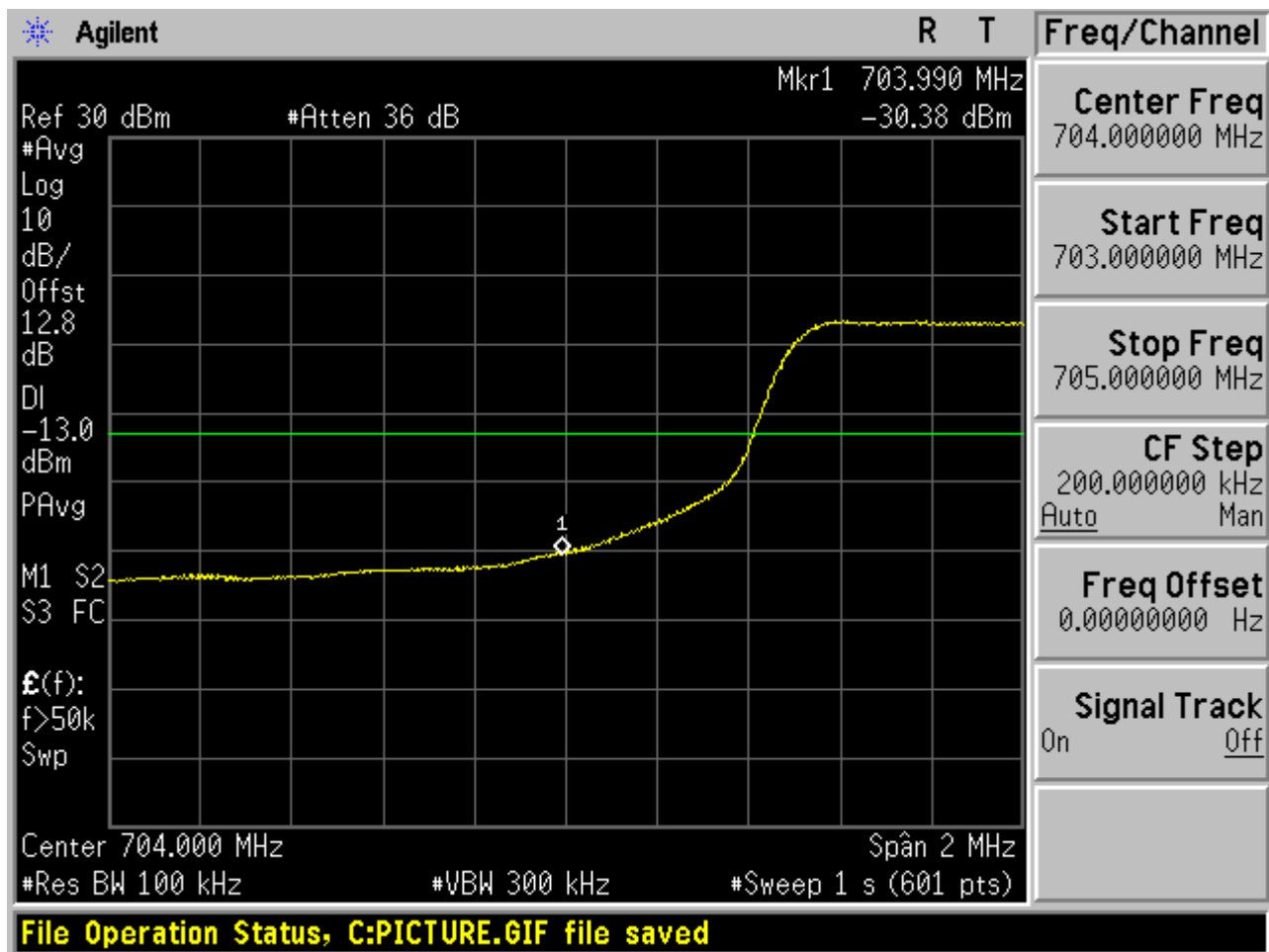




1.1.2.1.3 QPSK/non-1RB #mid/2



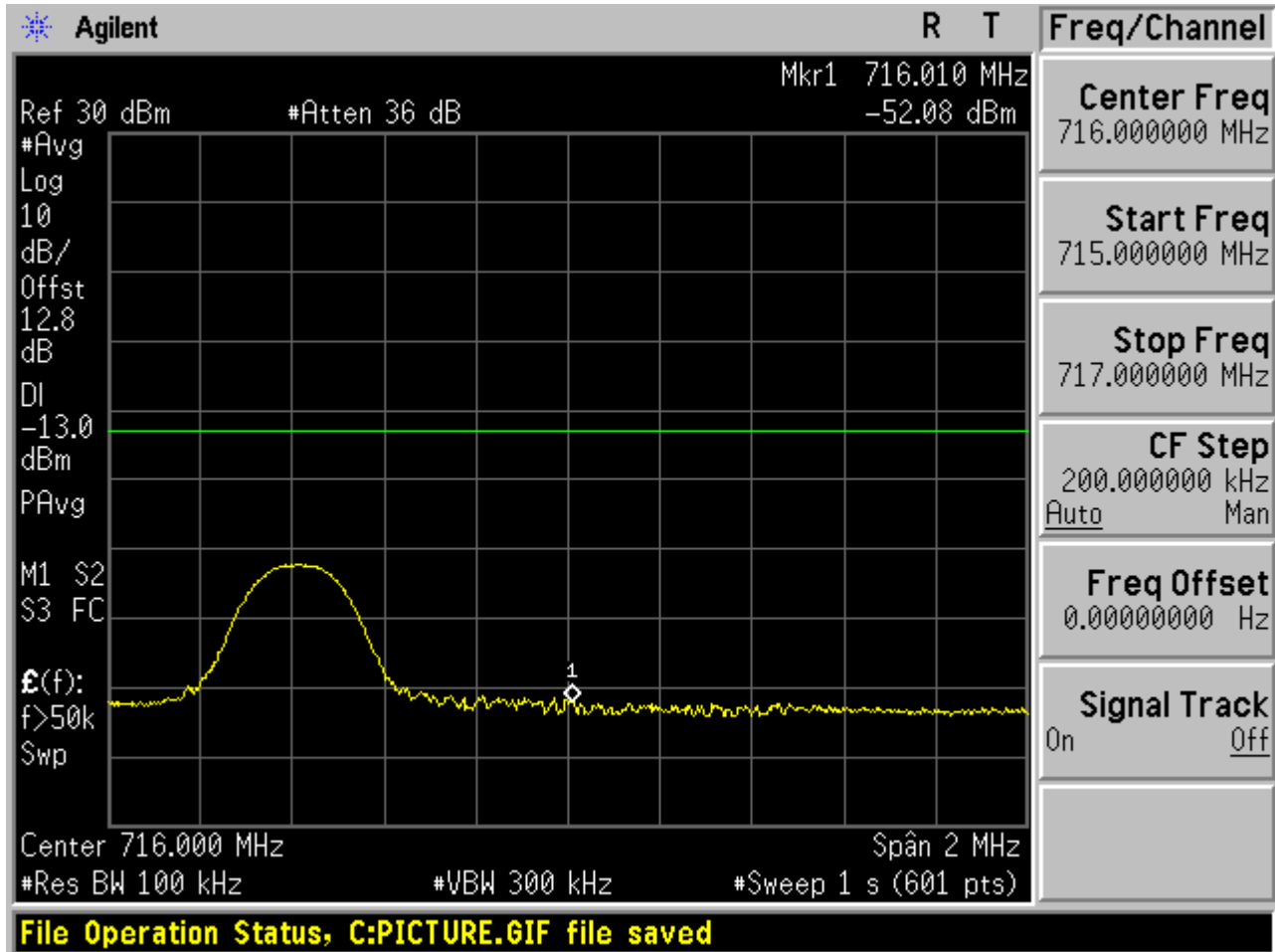
1.1.2.1.4 QPSK/full RBs





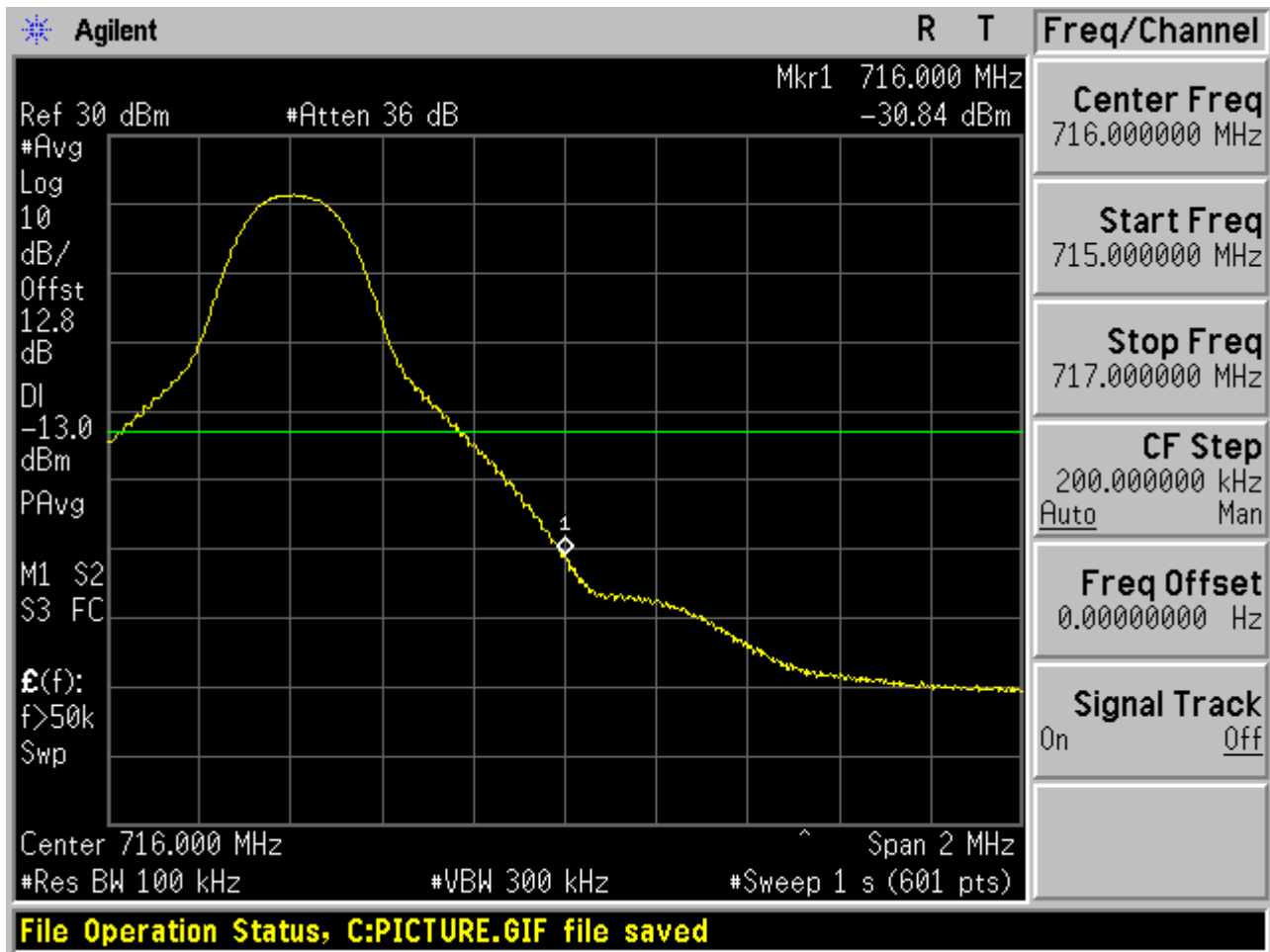
1.1.2.2 Channel= T

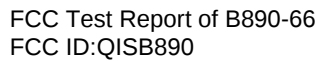
1.1.2.2.1 QPSK/1RB # 0



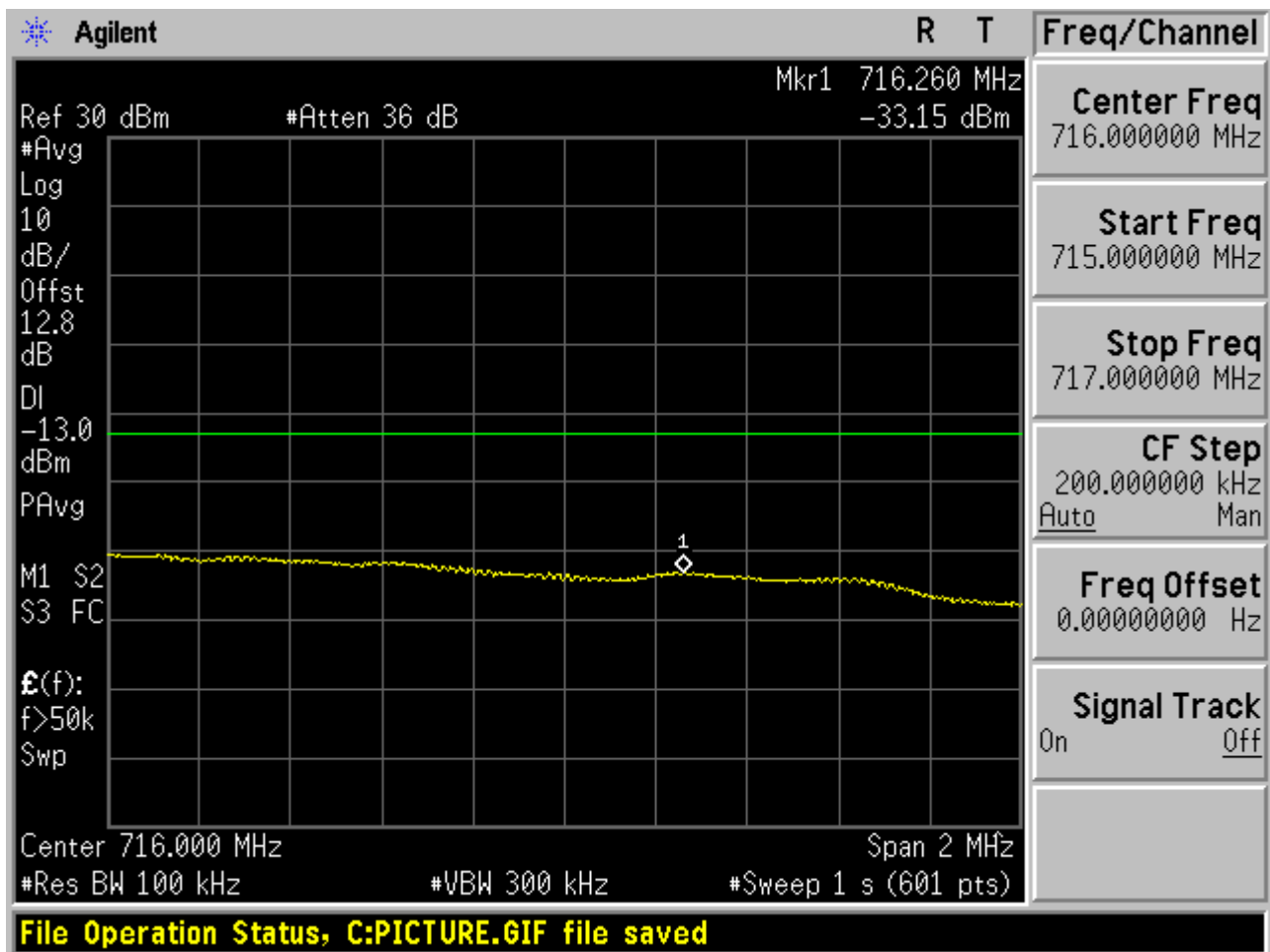


1.1.2.2.2 QPSK/1RB # max



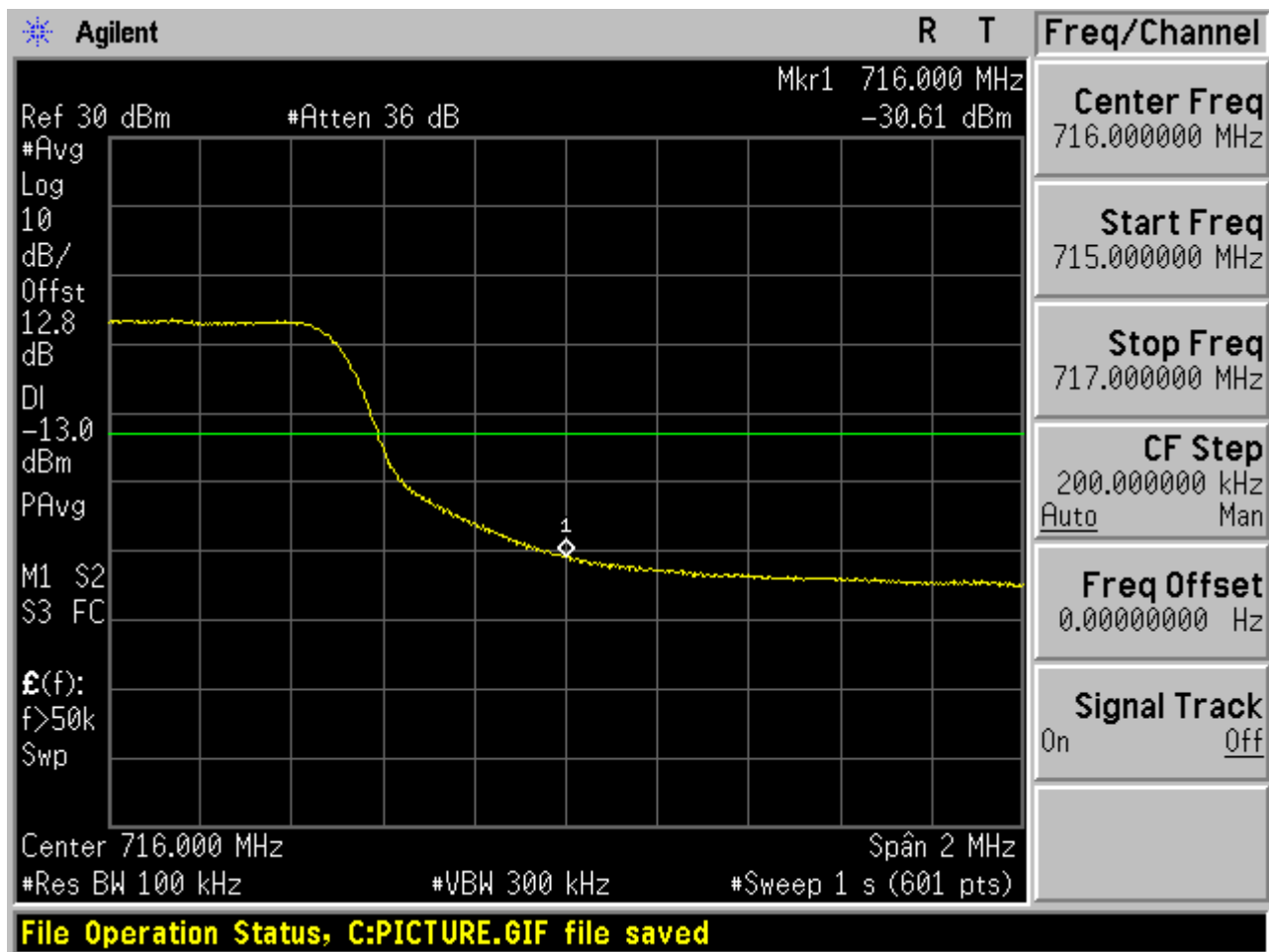


1.1.2.2.3 QPSK/non-1RB #mid/2





1.1.2.2.4 QPSK/full RBs

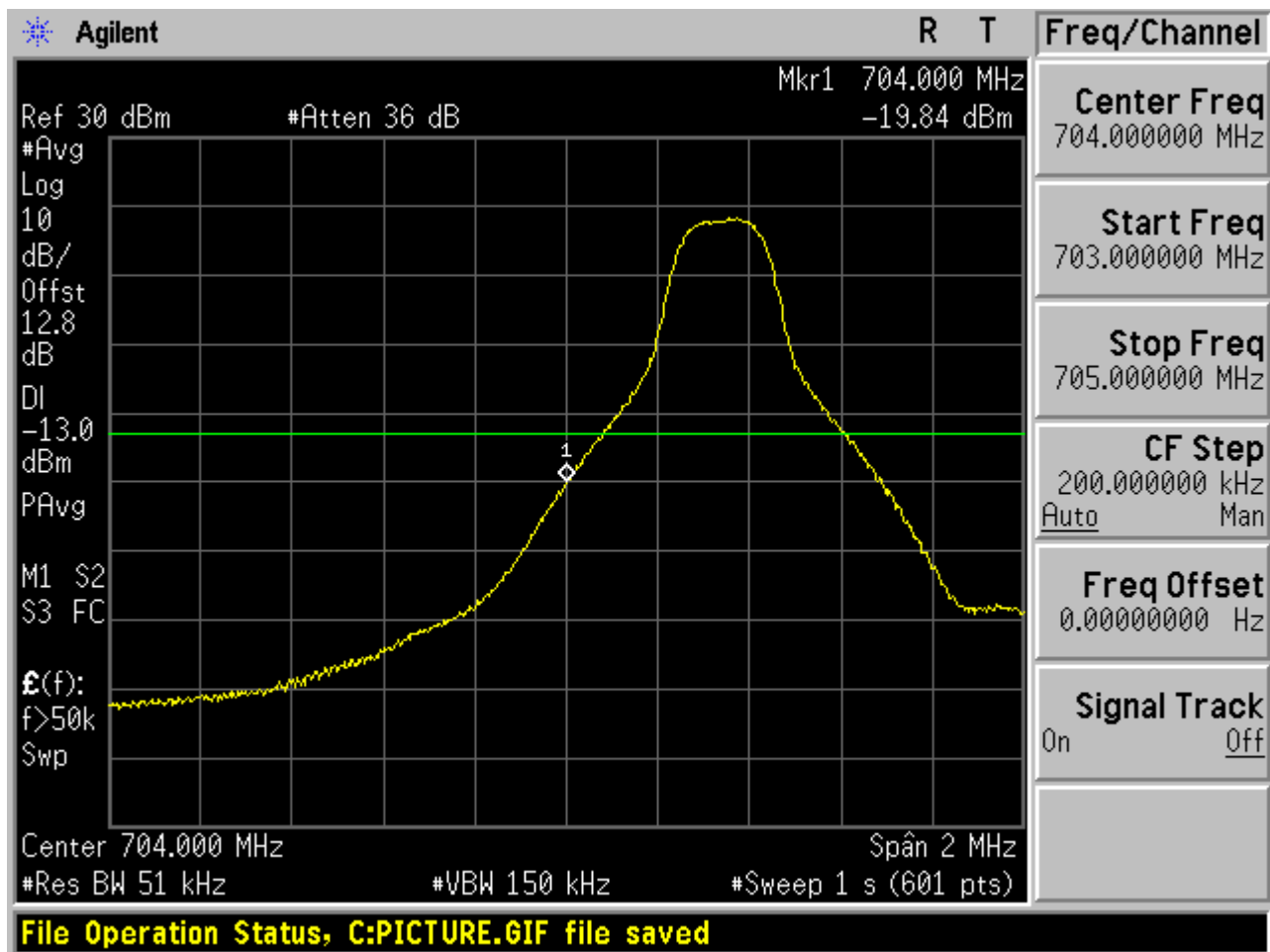


1.2 Test Mode=TM2

1.2.1 Channel Bandwidth = 5 MHz

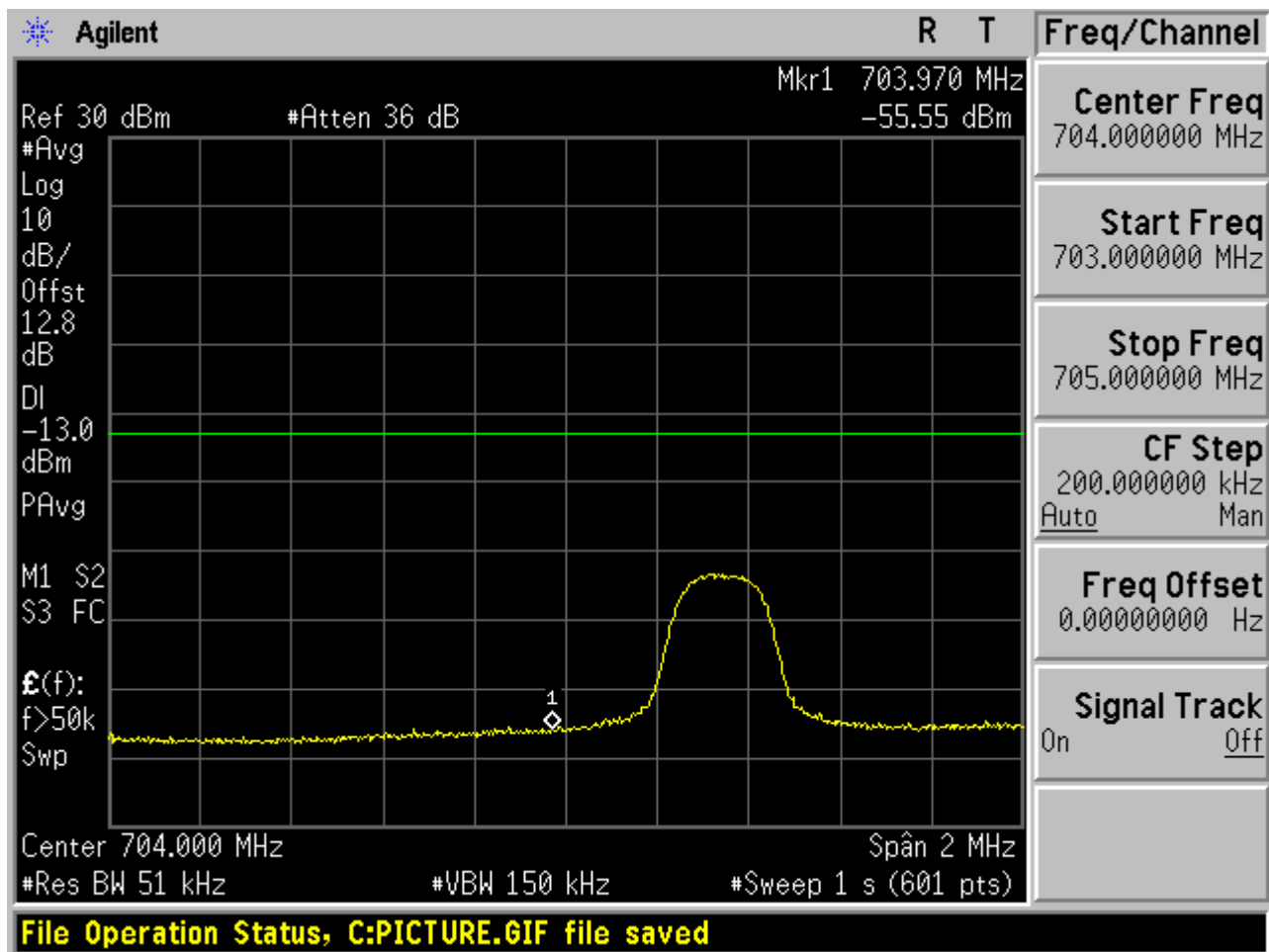
1.2.1.1 Channel= B

1.2.1.1.1 16QAM/1RB #0



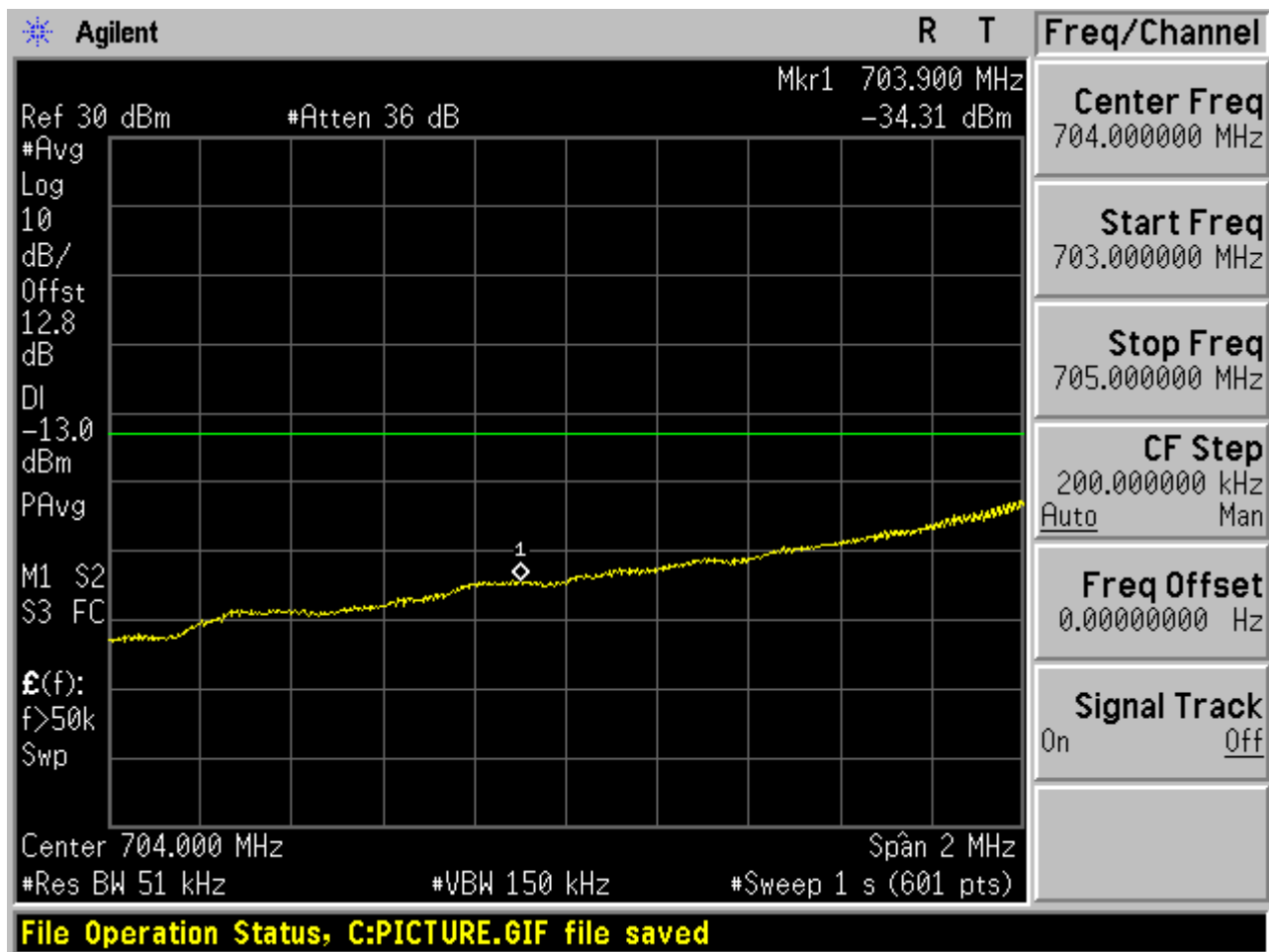


1.2.1.1.2 16QAM/1RB #max



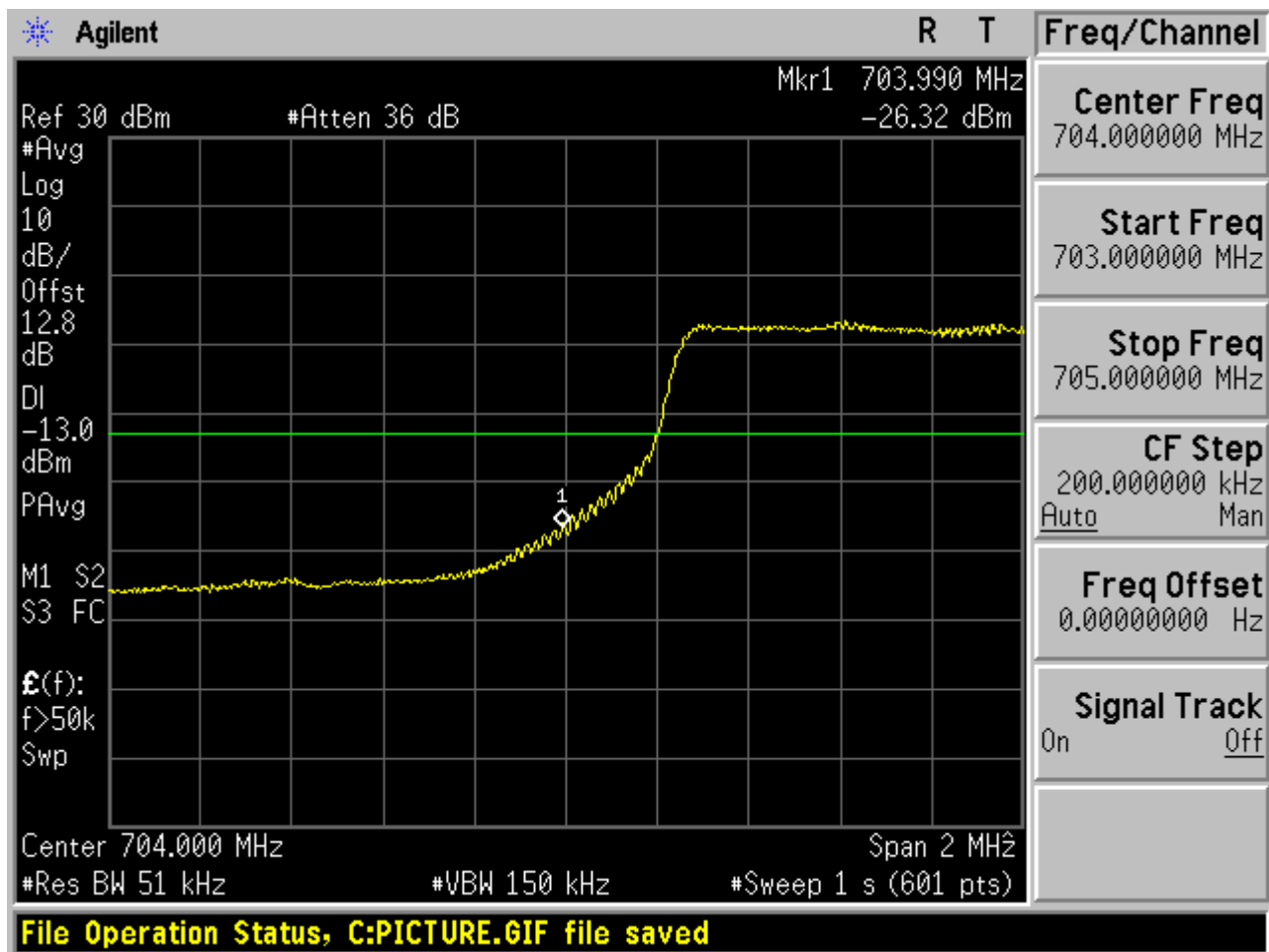


1.2.1.1.3 16QAM / non-1RB #mid/2





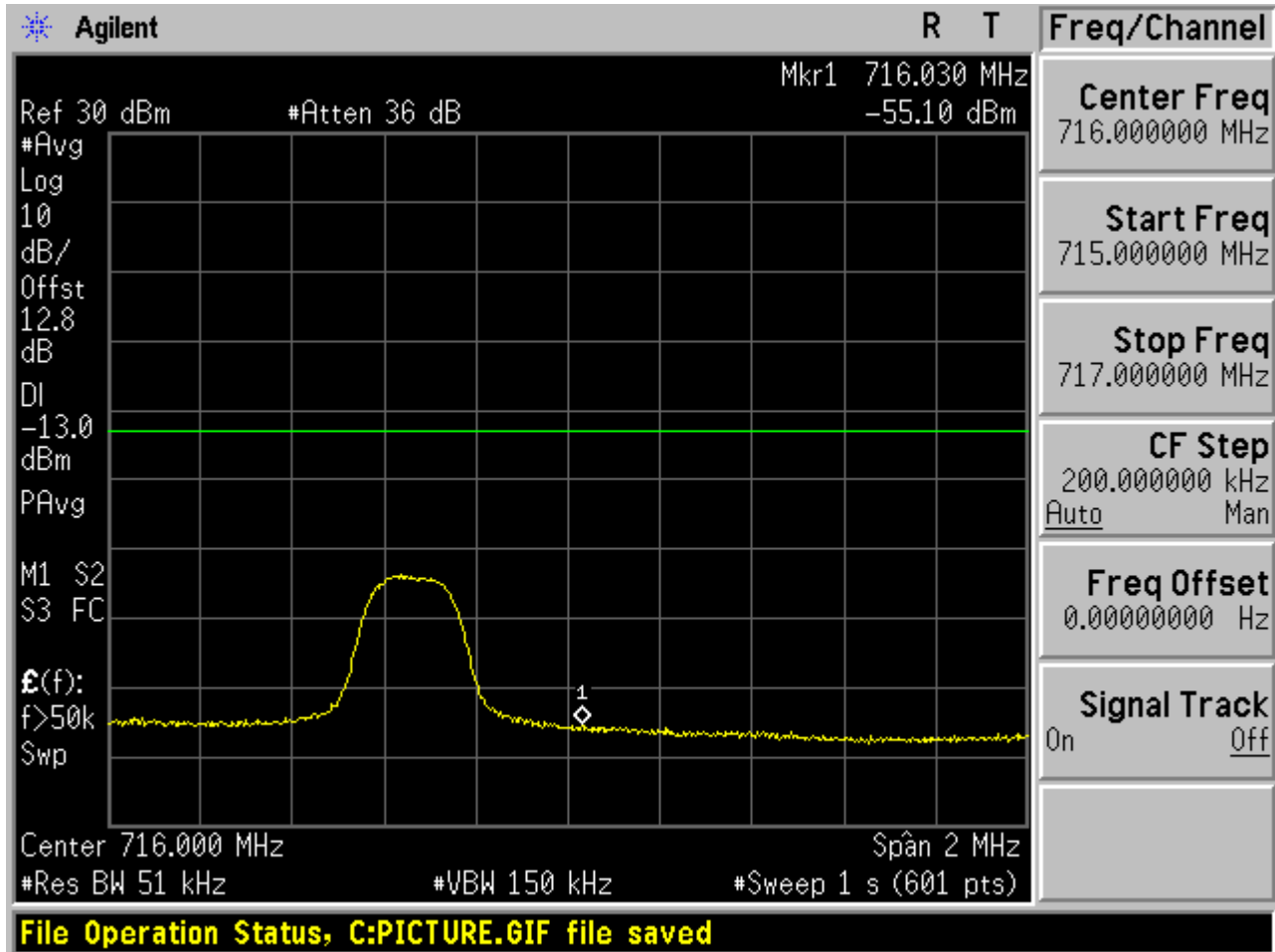
1.2.1.1.4 16QAM /full RBs





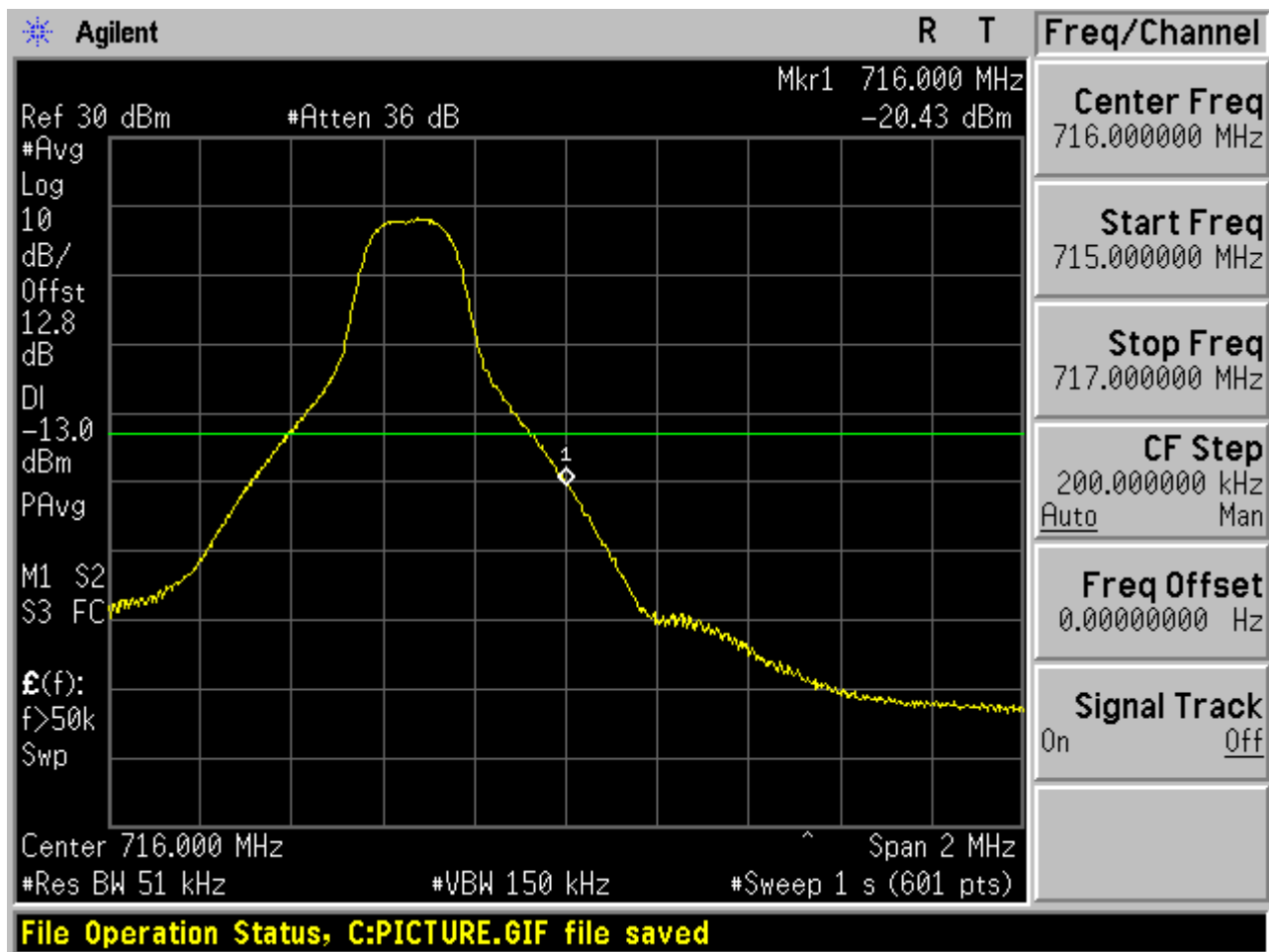
1.2.1.2 Channel= T

1.2.1.2.1 16QAM /1RB #0



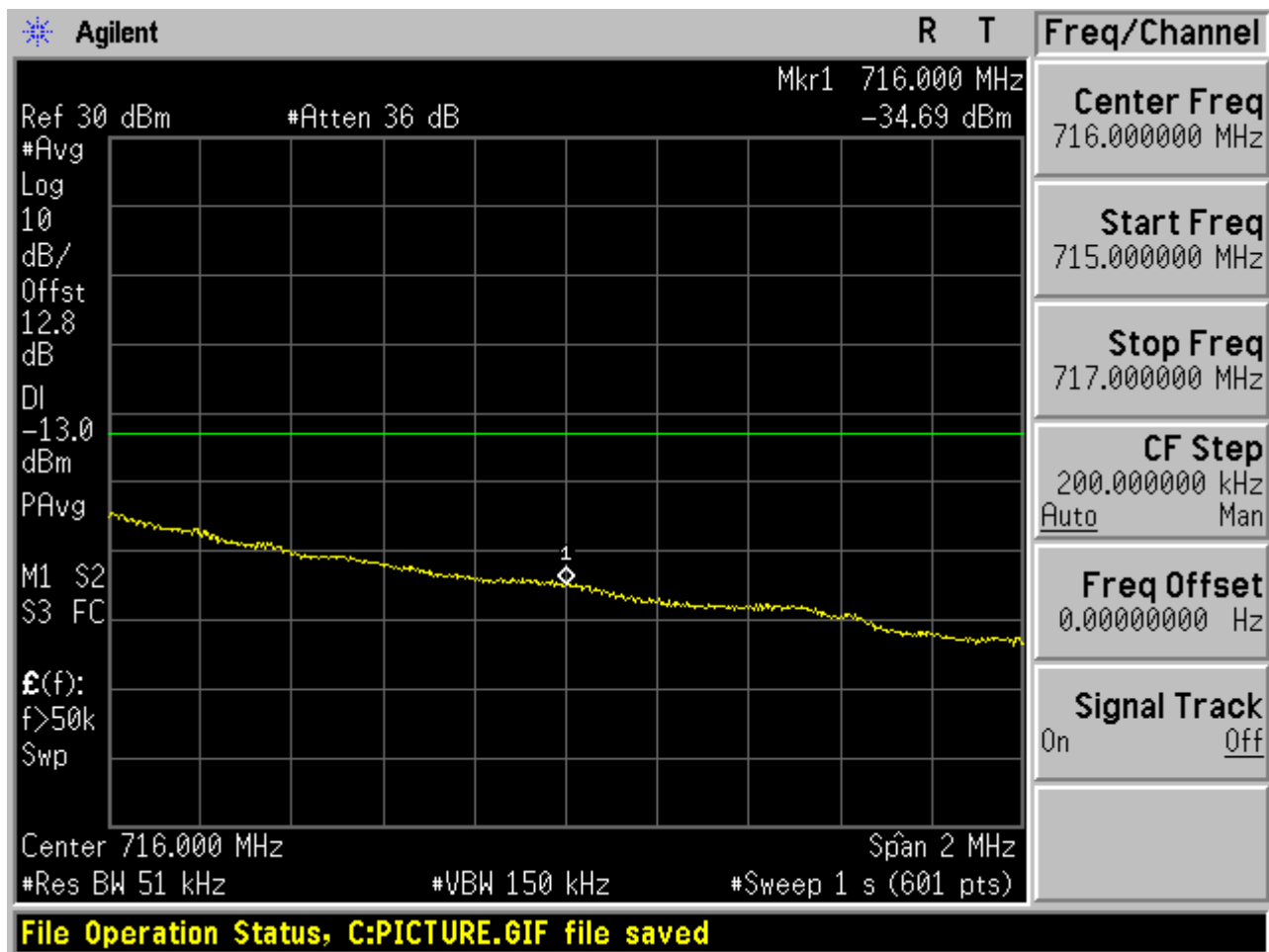


1.2.1.2.2 16QAM /1RB #max



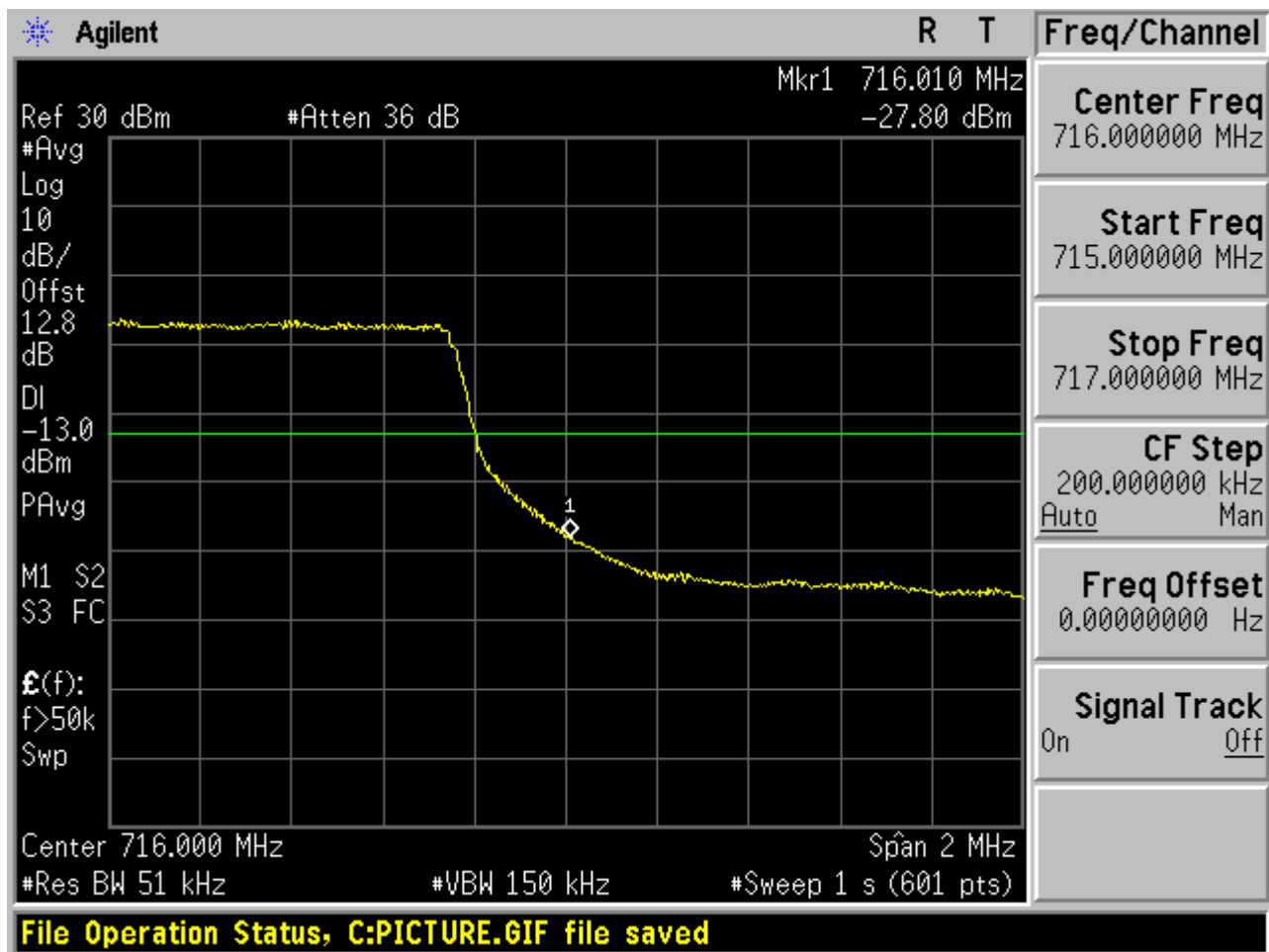


1.2.1.2.3 16QAM / non-1RB #mid/2





1.2.1.2.4 16QAM /full RBs

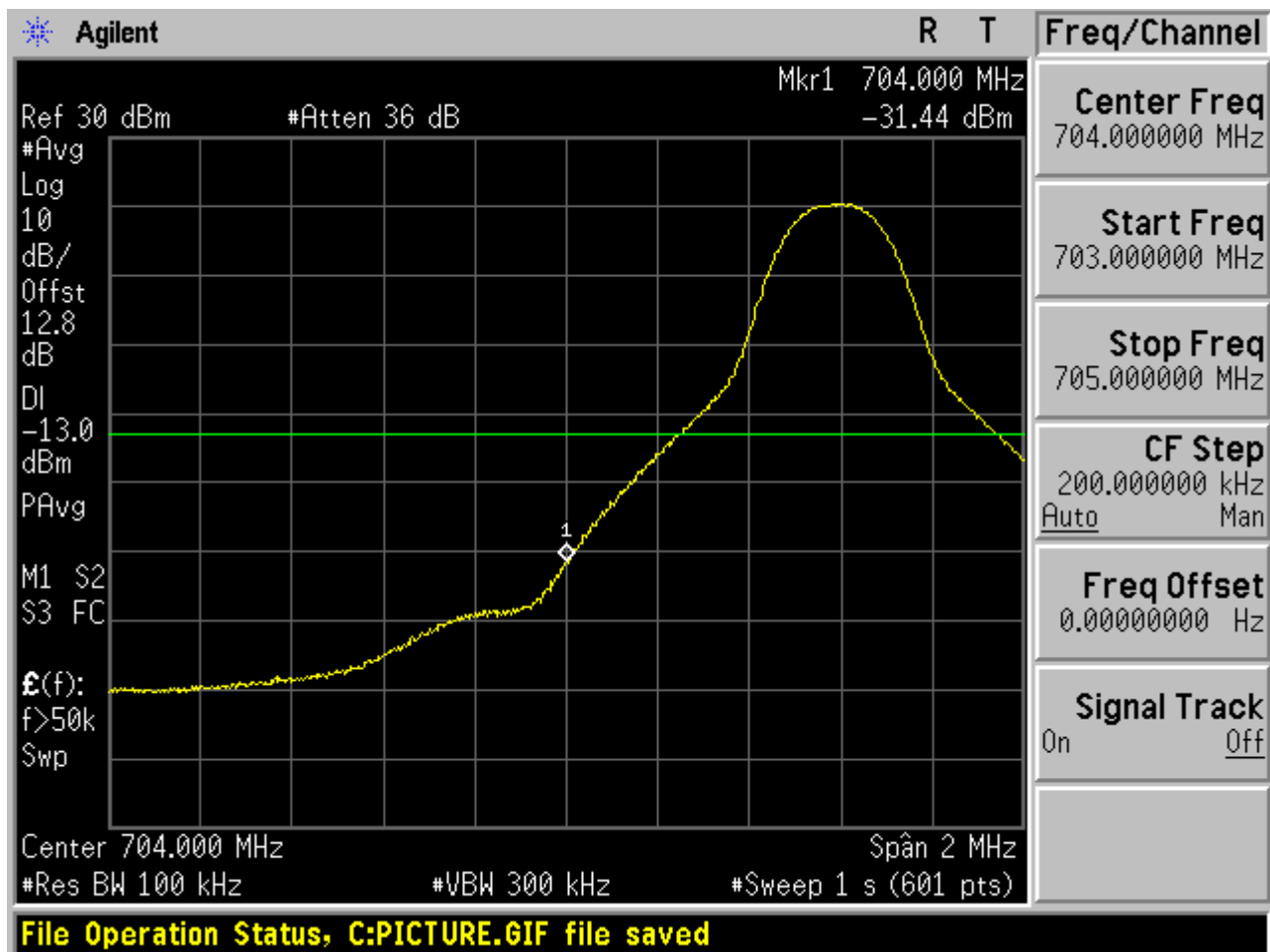




1.2.2 Channel Bandwidth = 10 MHz

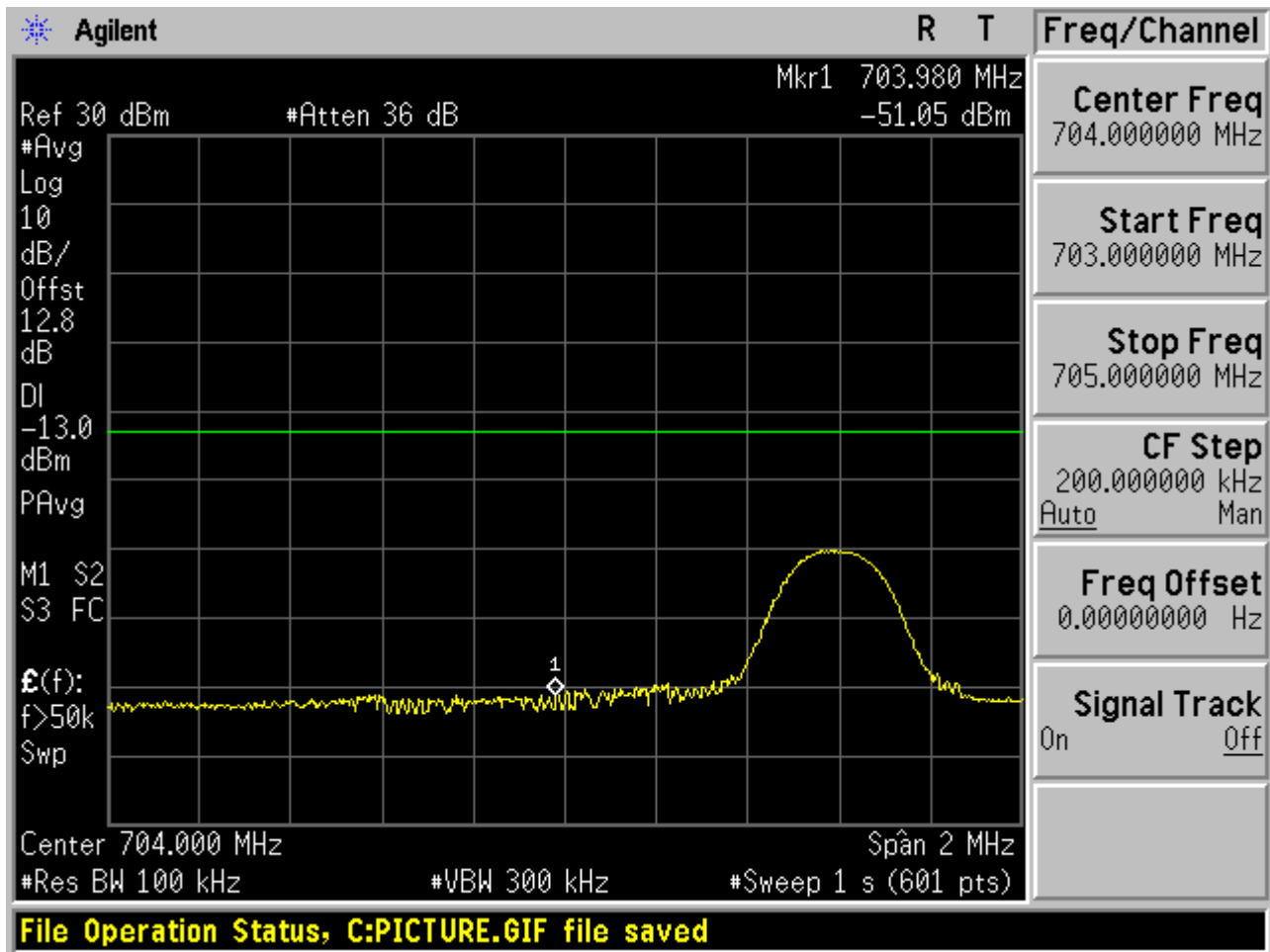
1.2.2.1 Channel= B

1.2.2.1.1 16QAM/1RB #0



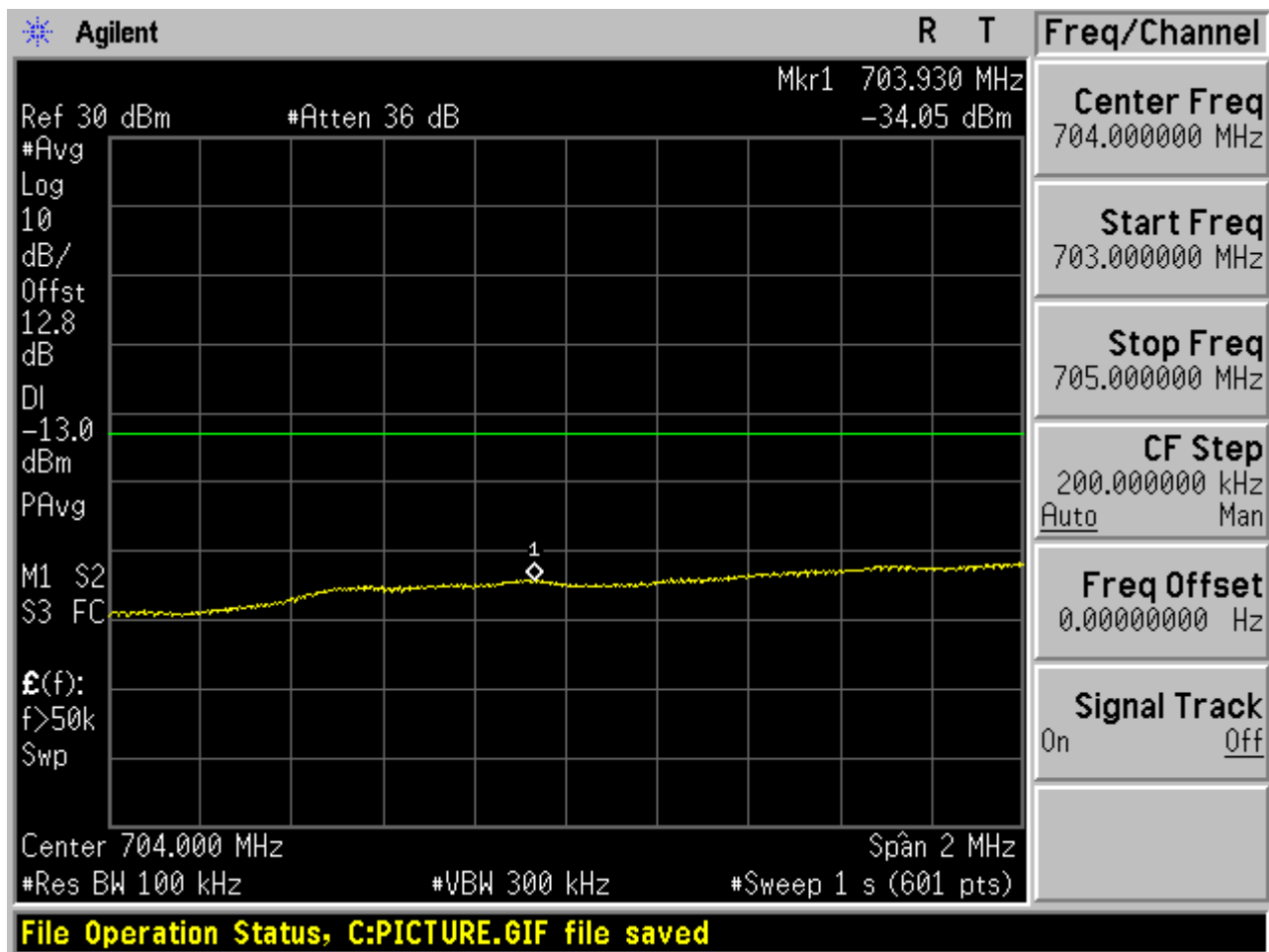


1.2.2.1.2 16QAM/1RB #max



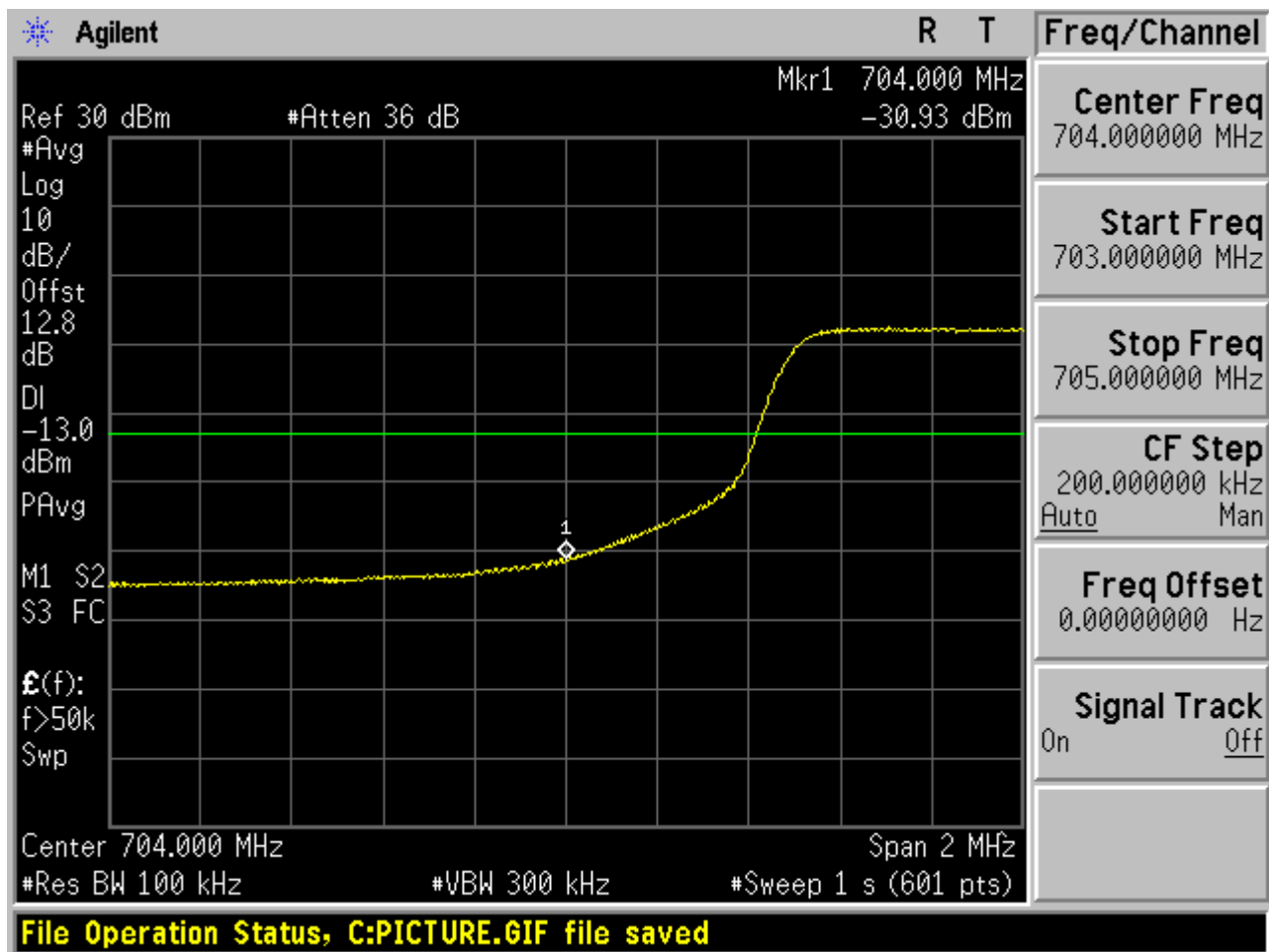


1.2.2.1.3 16QAM / non-1RB #mid/2





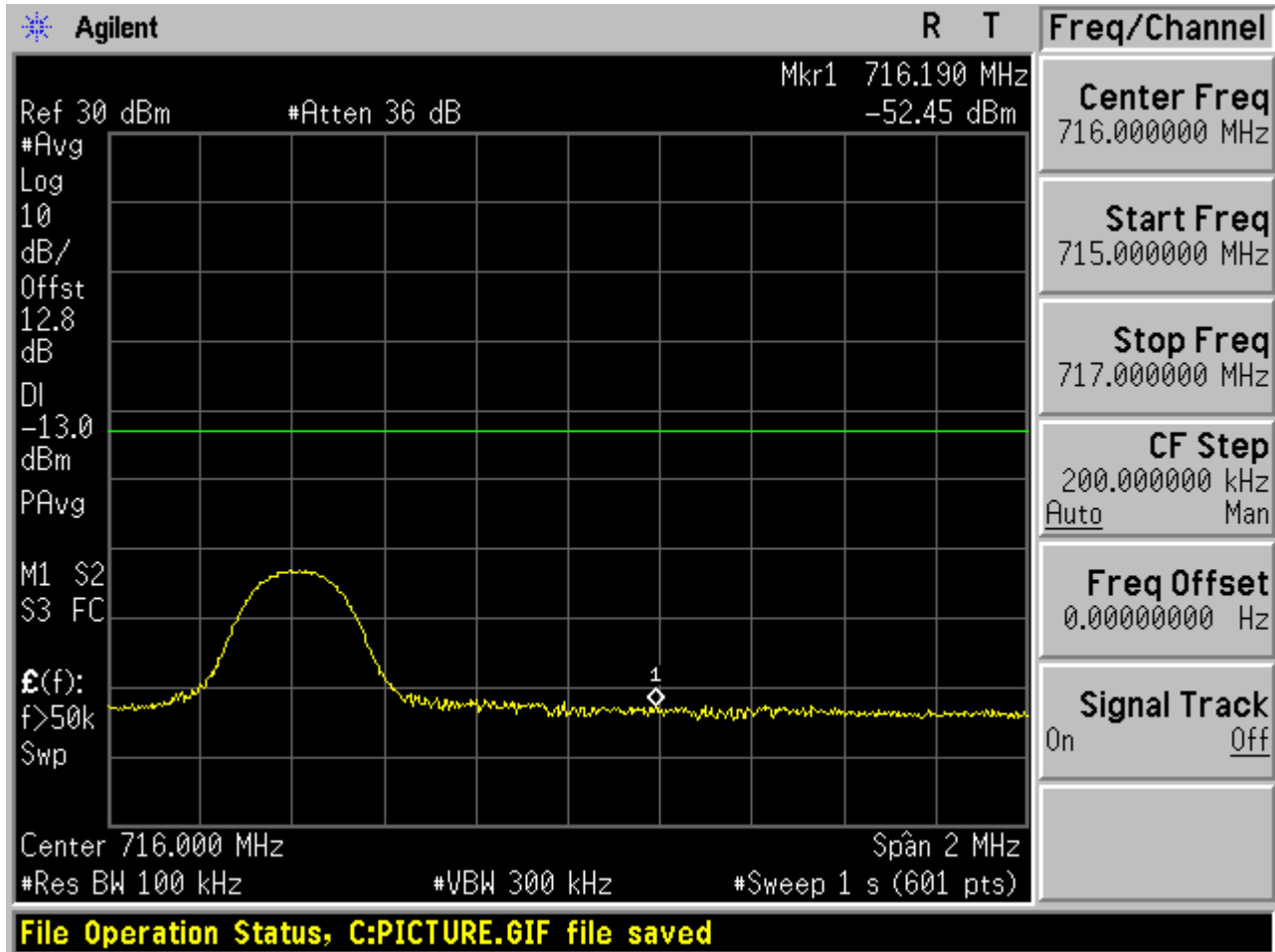
1.2.2.1.4 16QAM /full RBs





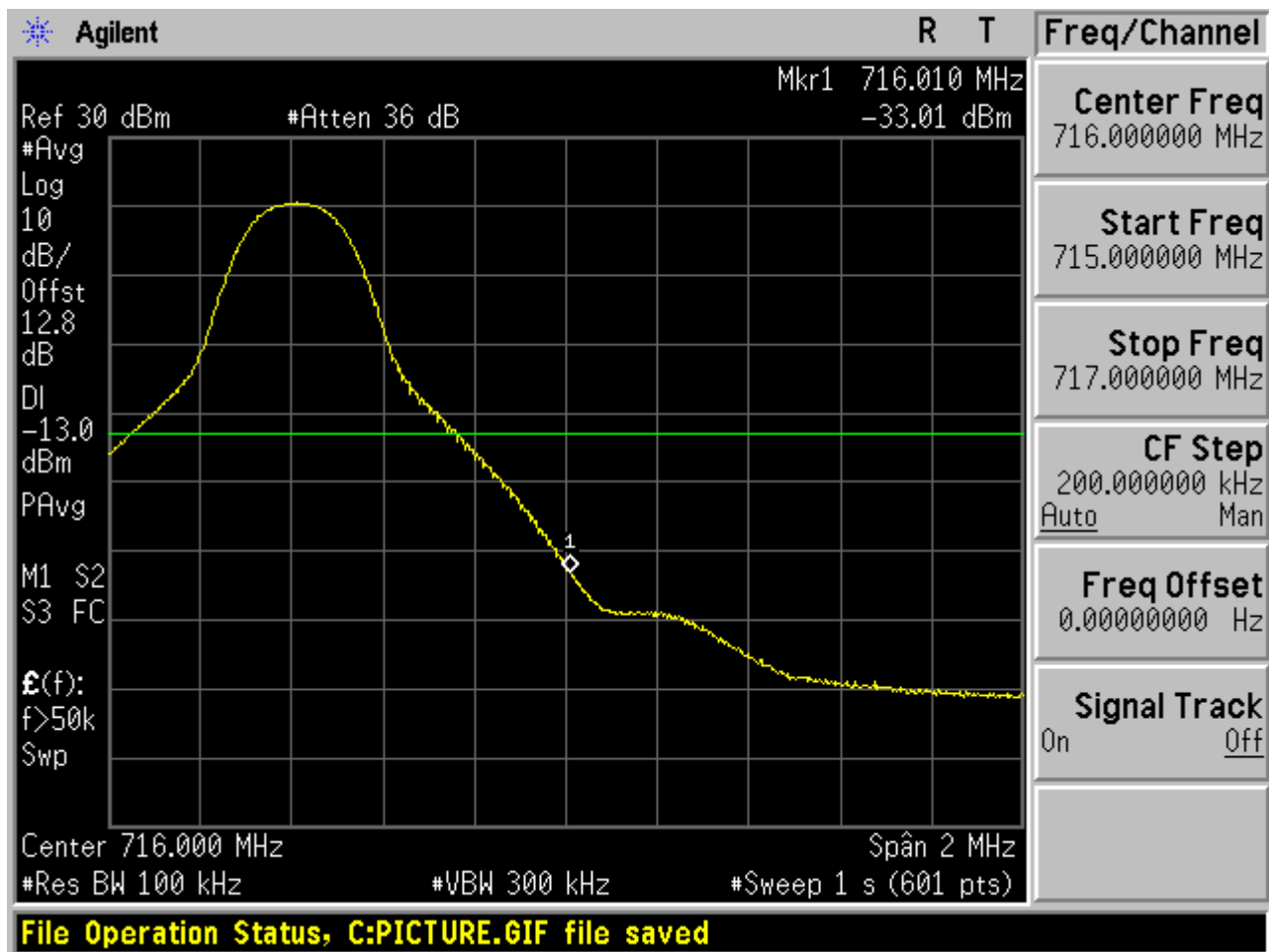
1.2.2.2 Channel= T

1.2.2.2.1 16QAM /1RB #0



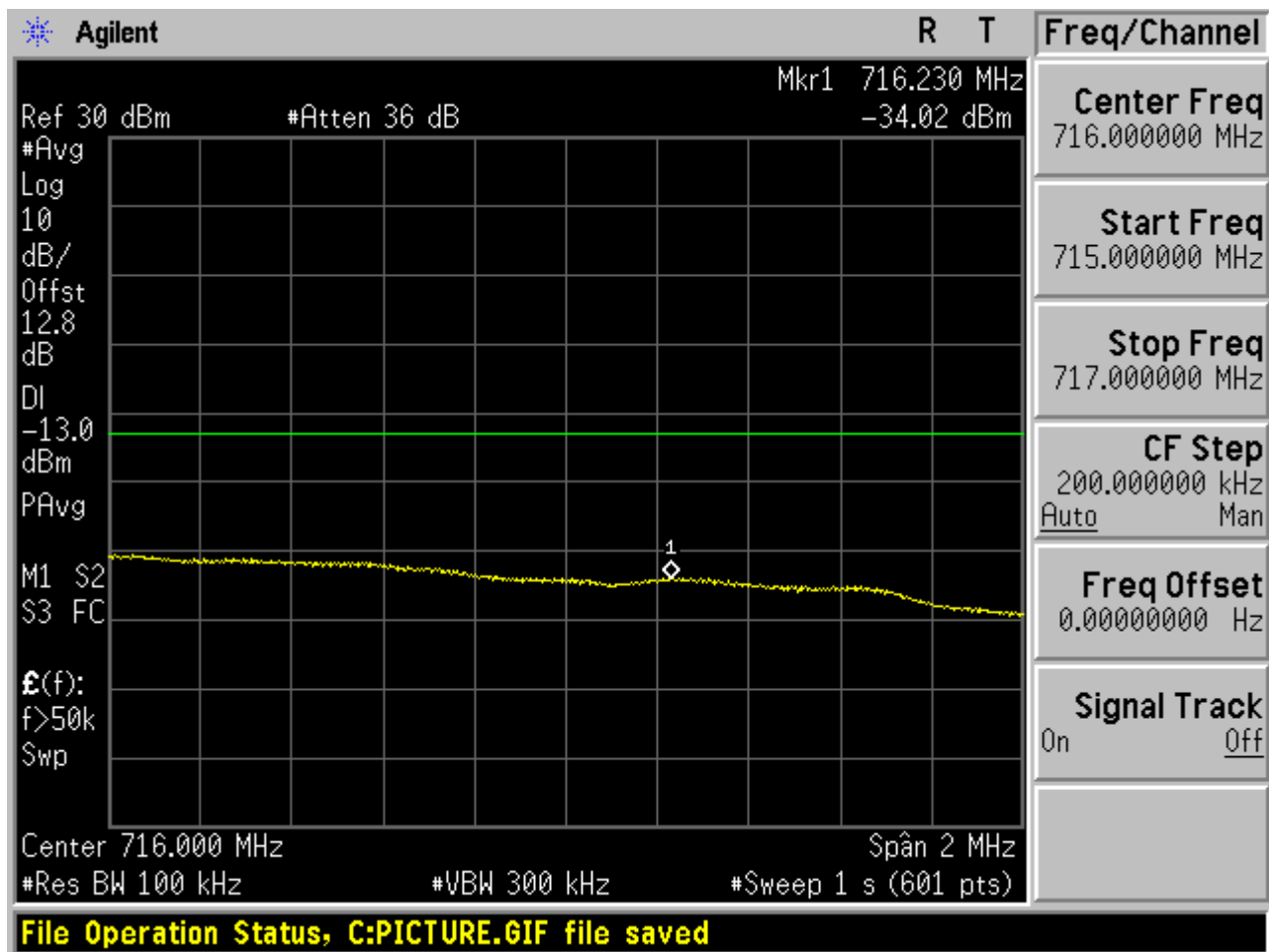


1.2.2.2.2 16QAM /1RB #max



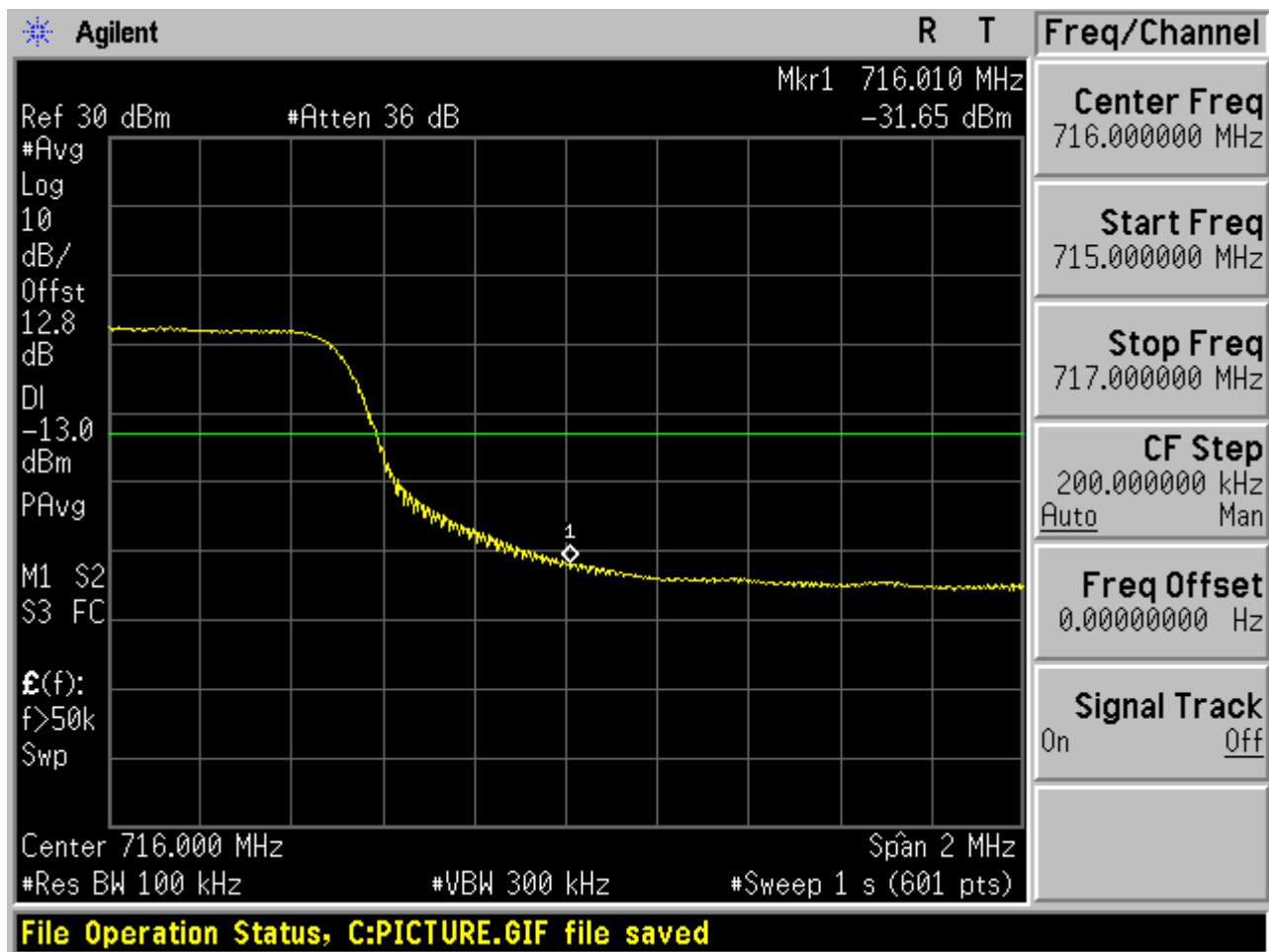


1.2.2.2.3 16QAM / non-1RB #mid/2





1.2.2.2.4 16QAM /full RBs



-----END-----



Appendix E

Spurious Emission at Antenna Terminal

According to FCC Part 2.1051 & Part 27.53(g)



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1 For Band 17

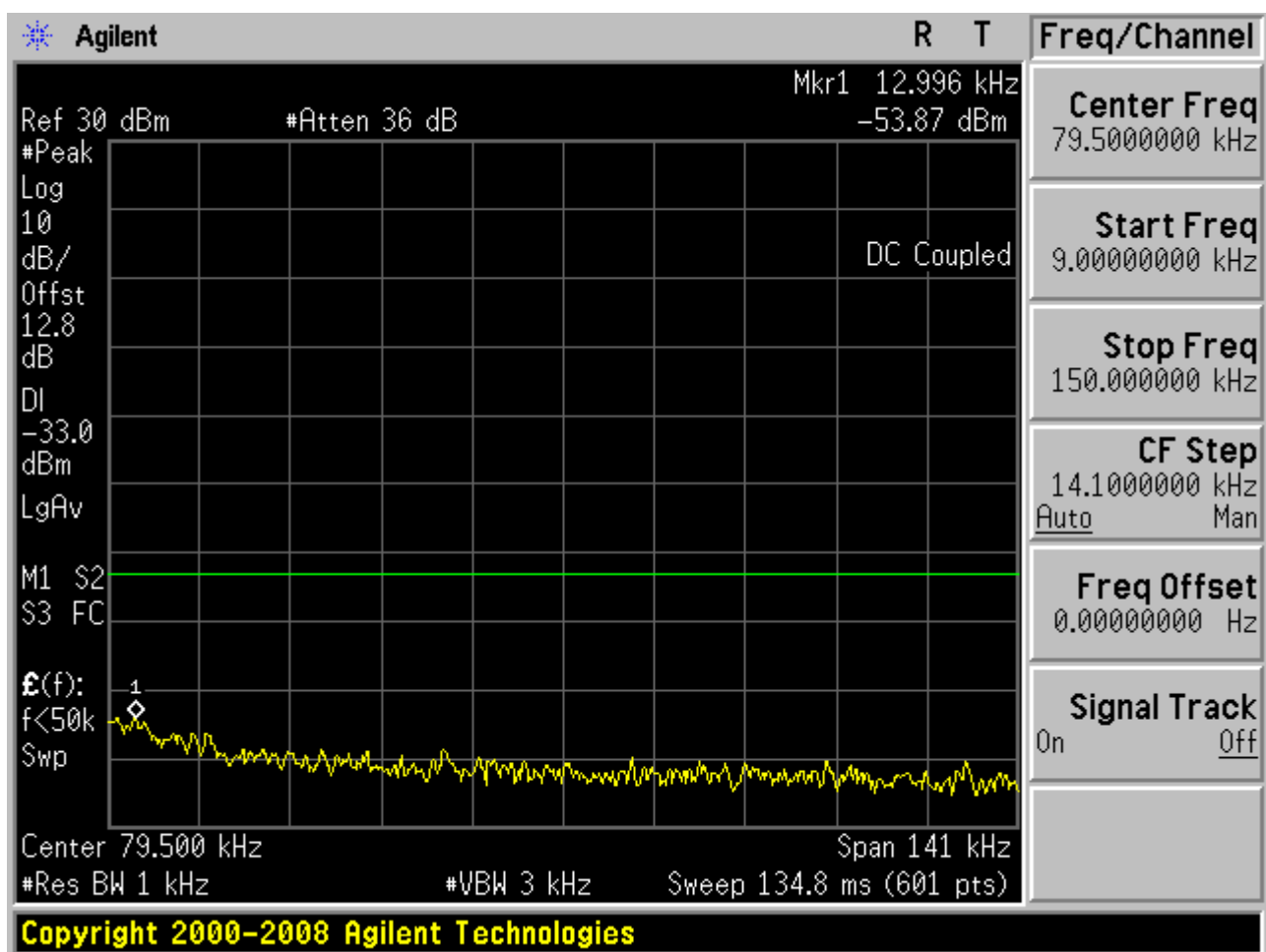
NOTE1: All relevant operation modes have been tested, and the 1RBs /RB#0 case data is included in this report.

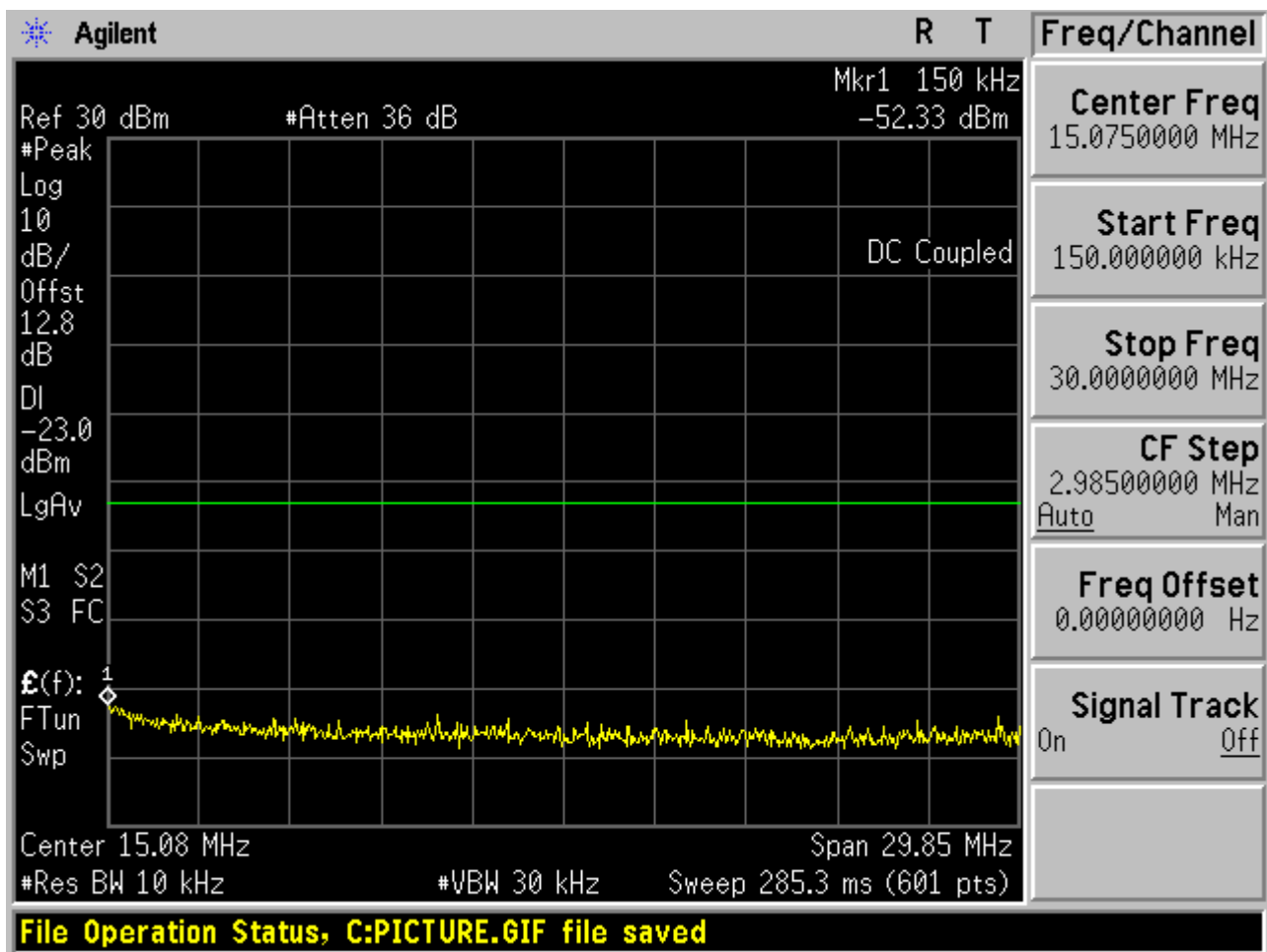
1.1 Test Mode=TM1

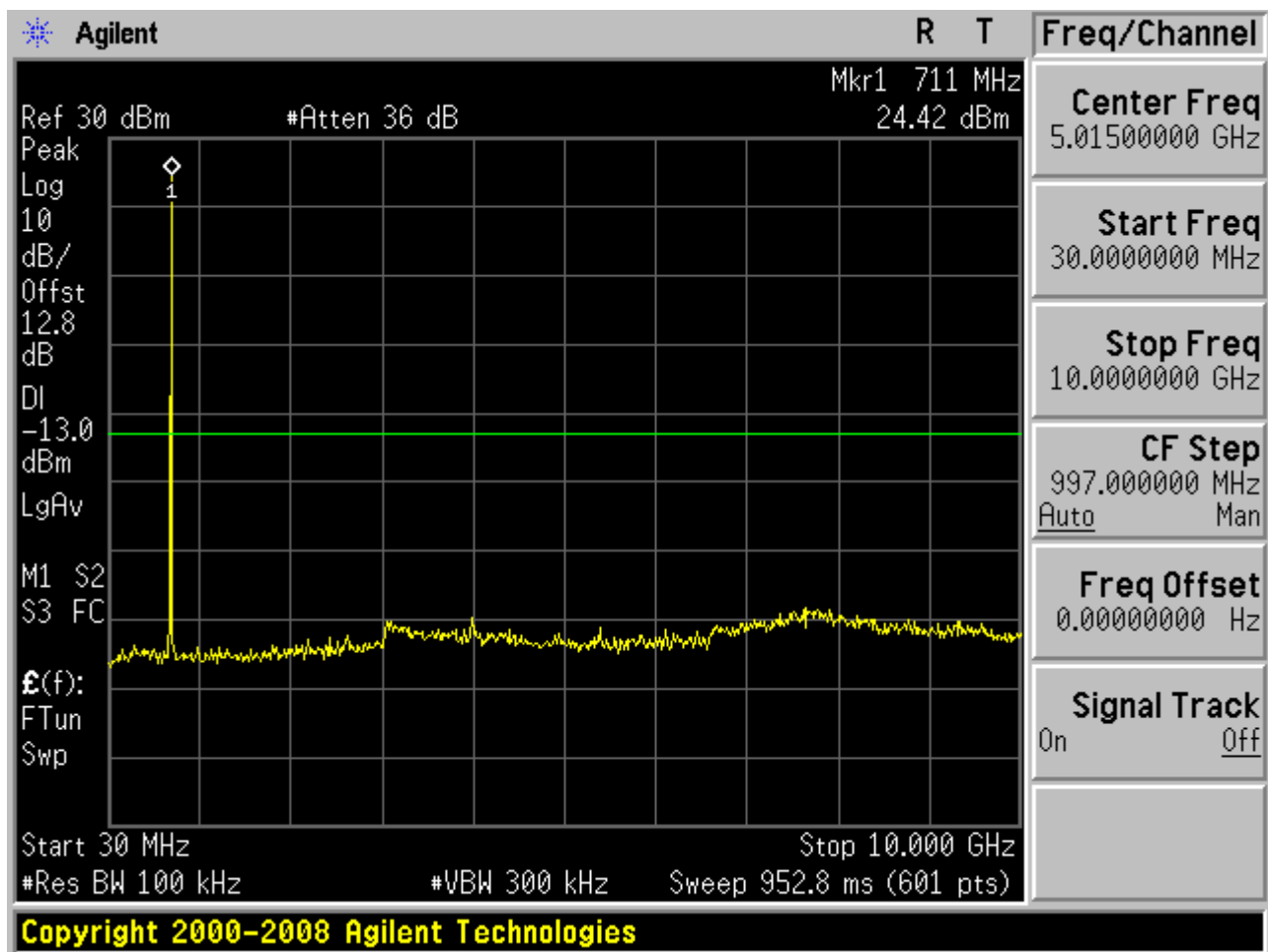
1.1.1 Channel Bandwidth = 5 MHz

1.1.1.1 Channel = B

1.1.1.1.1 QPSK/1RBs /RB #0



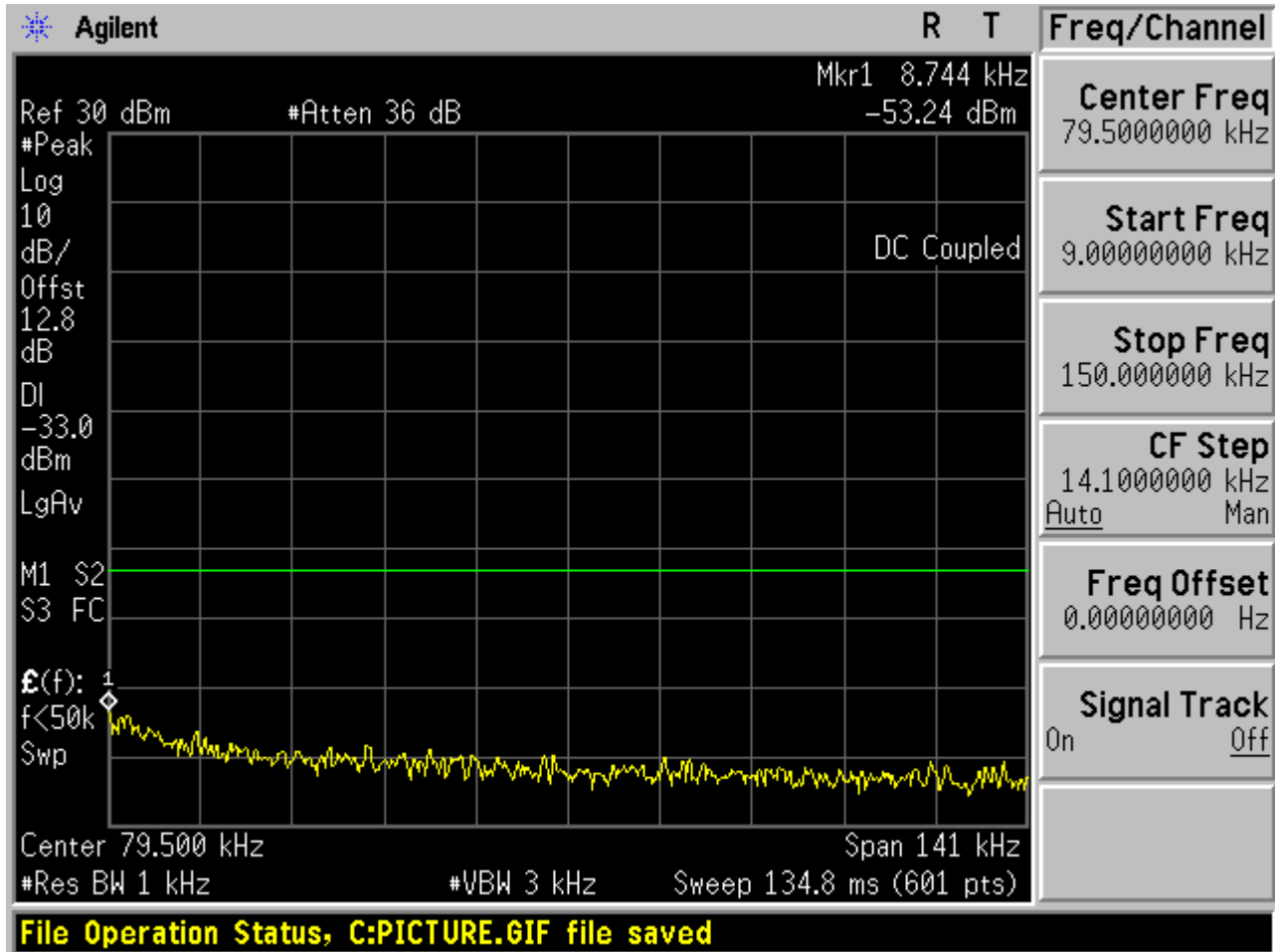


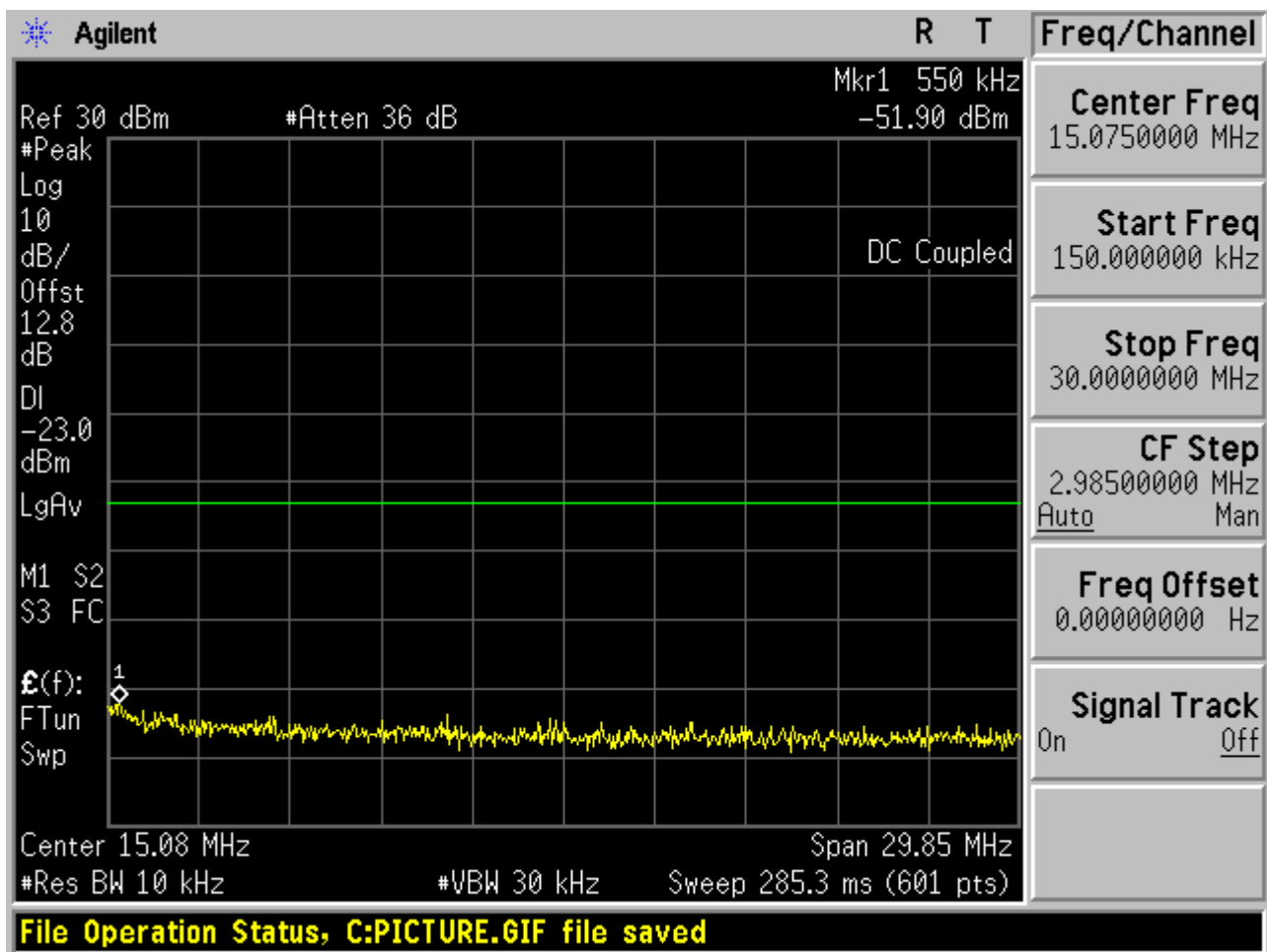


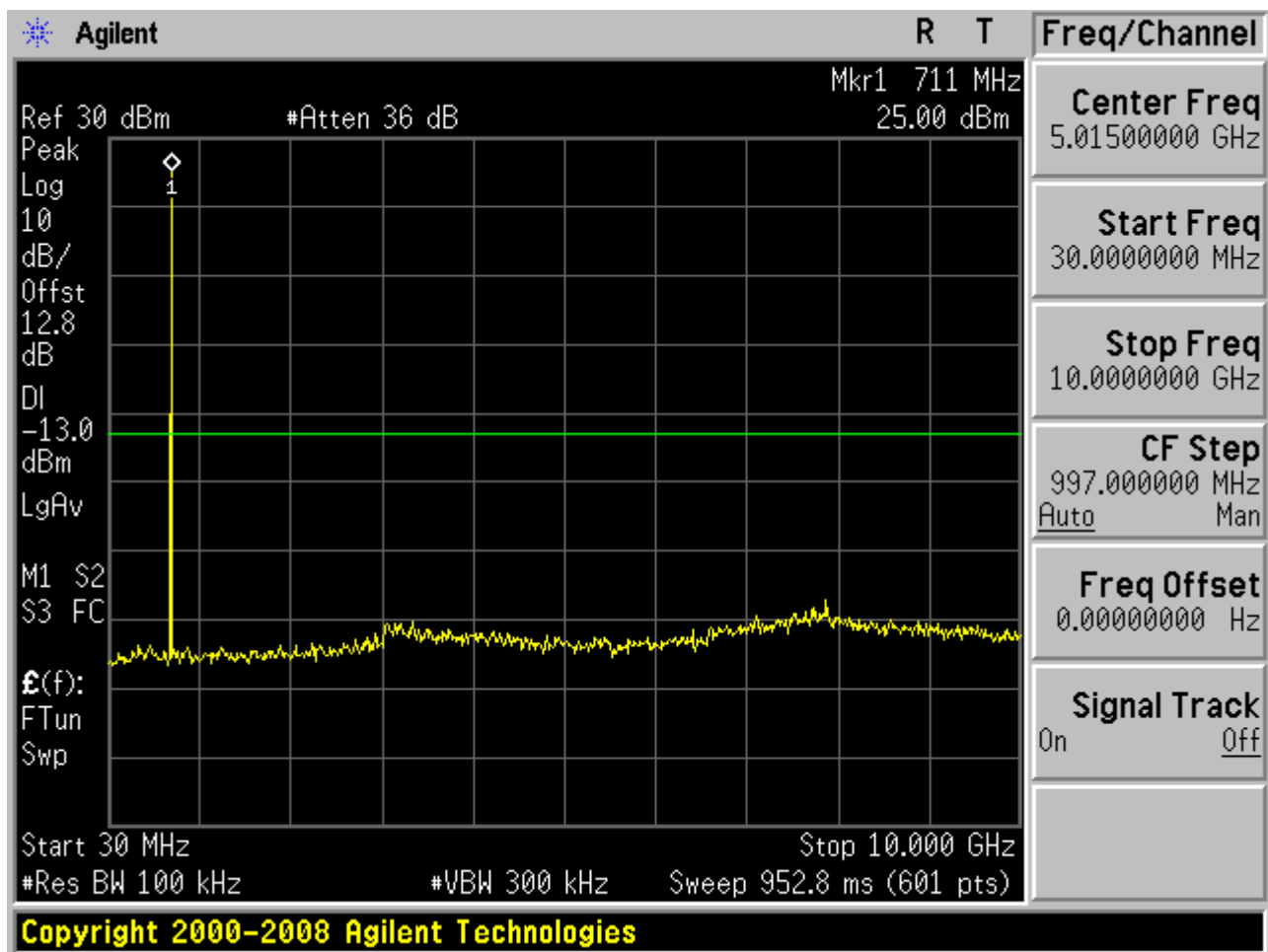


1.1.1.2 Channel = M

1.1.1.2.1 QPSK/1RBs /RB #0



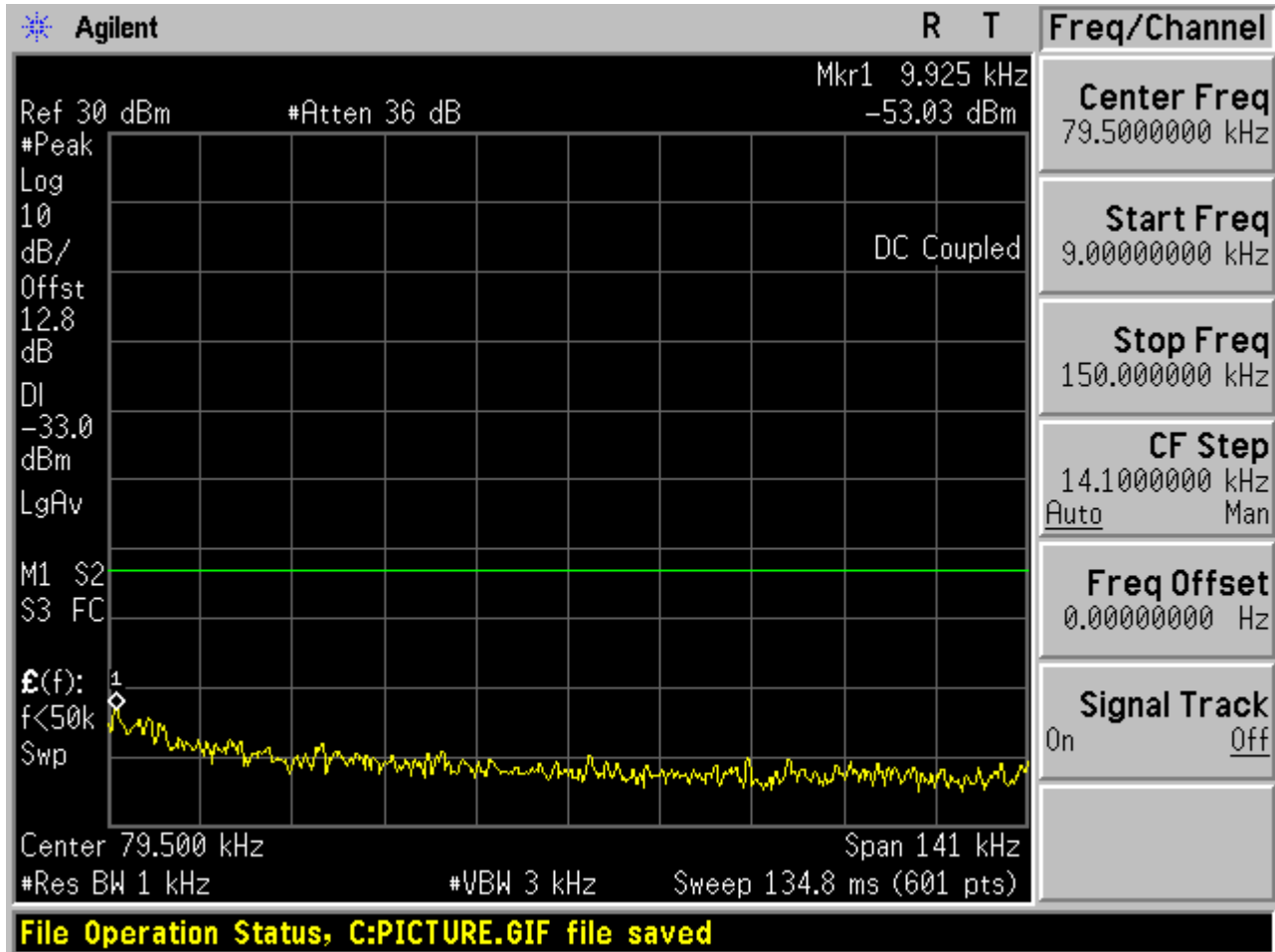


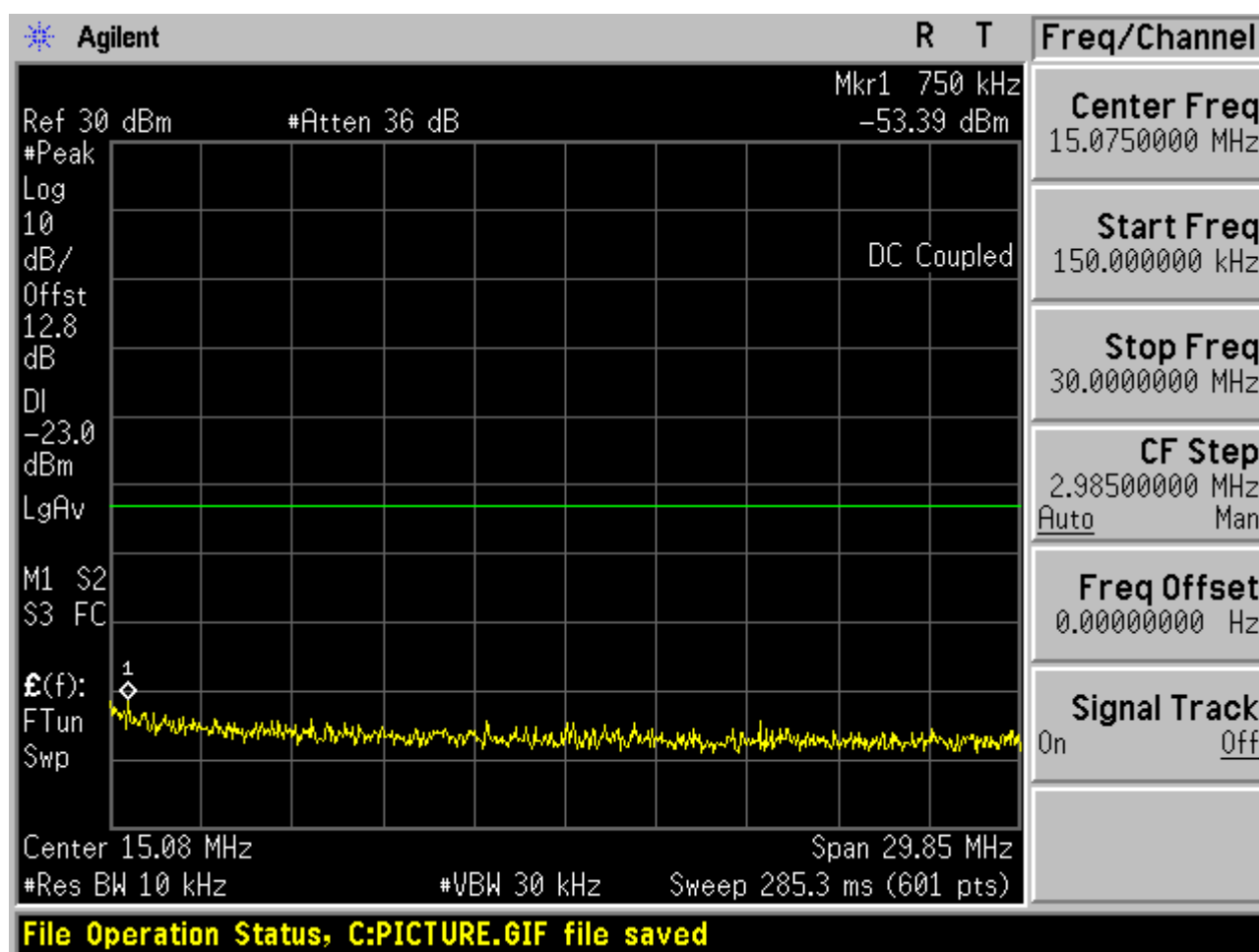


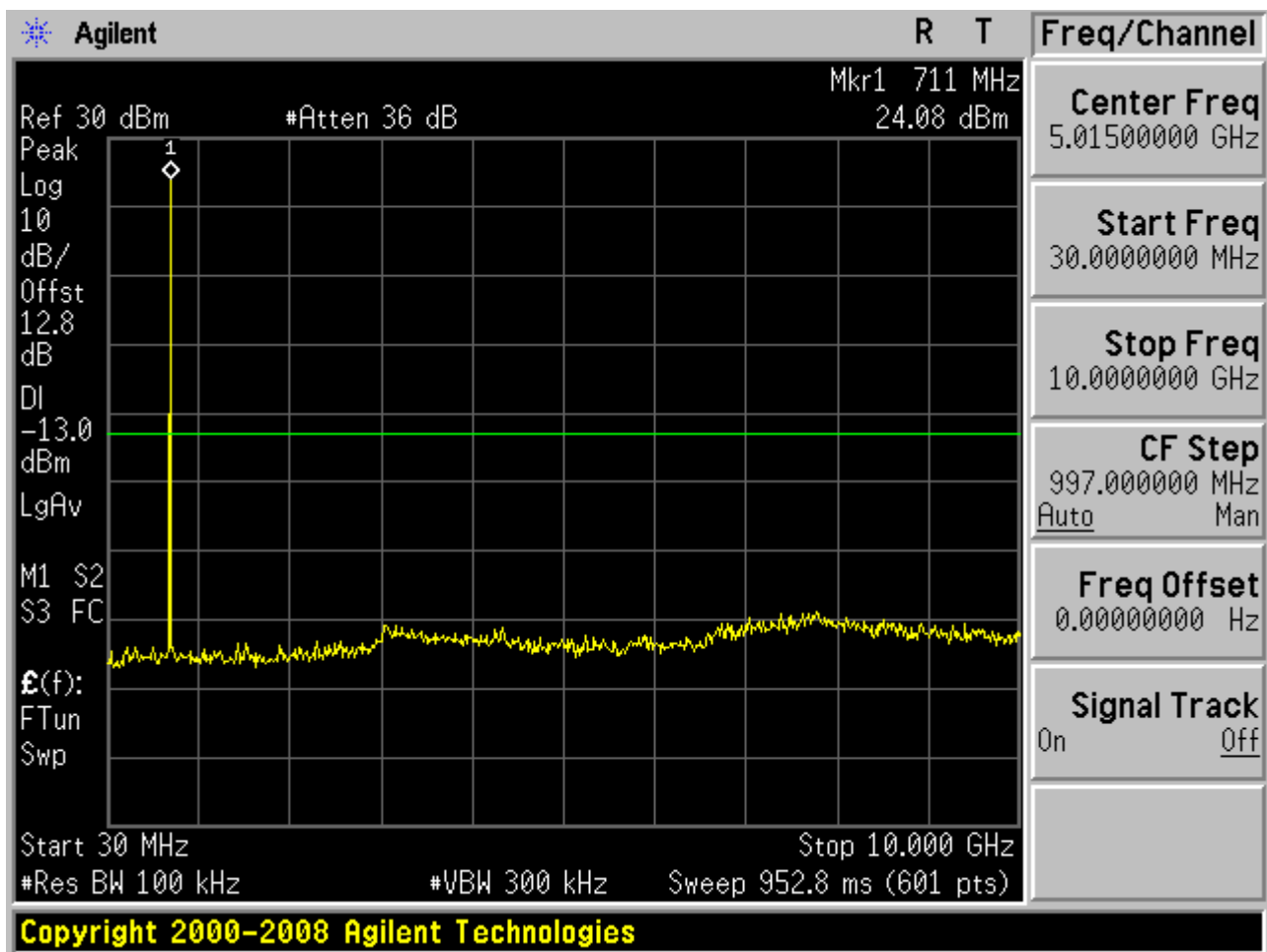


1.1.1.3 Channel = T

1.1.1.3.1 QPSK/1RBs /RB #0





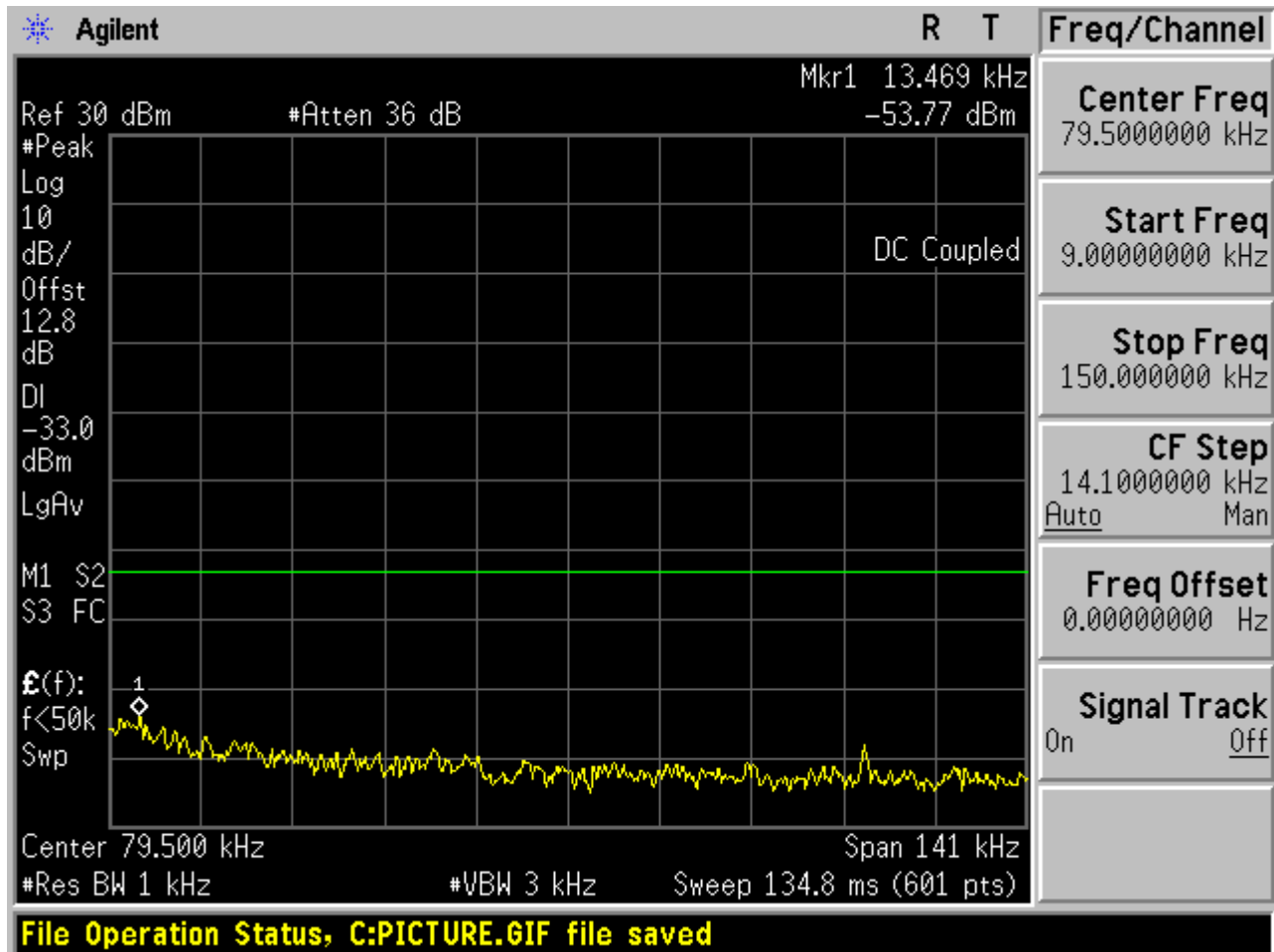


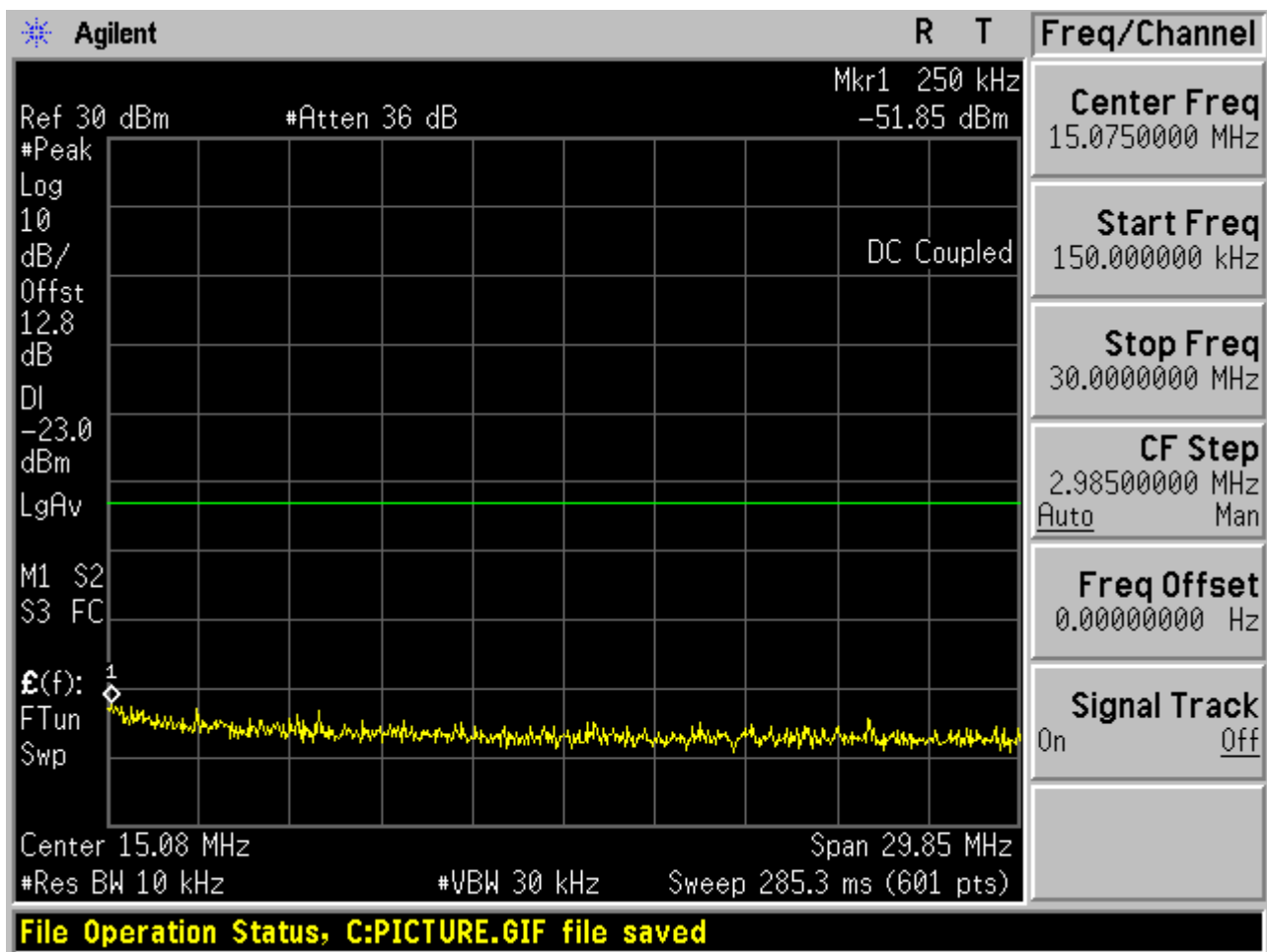


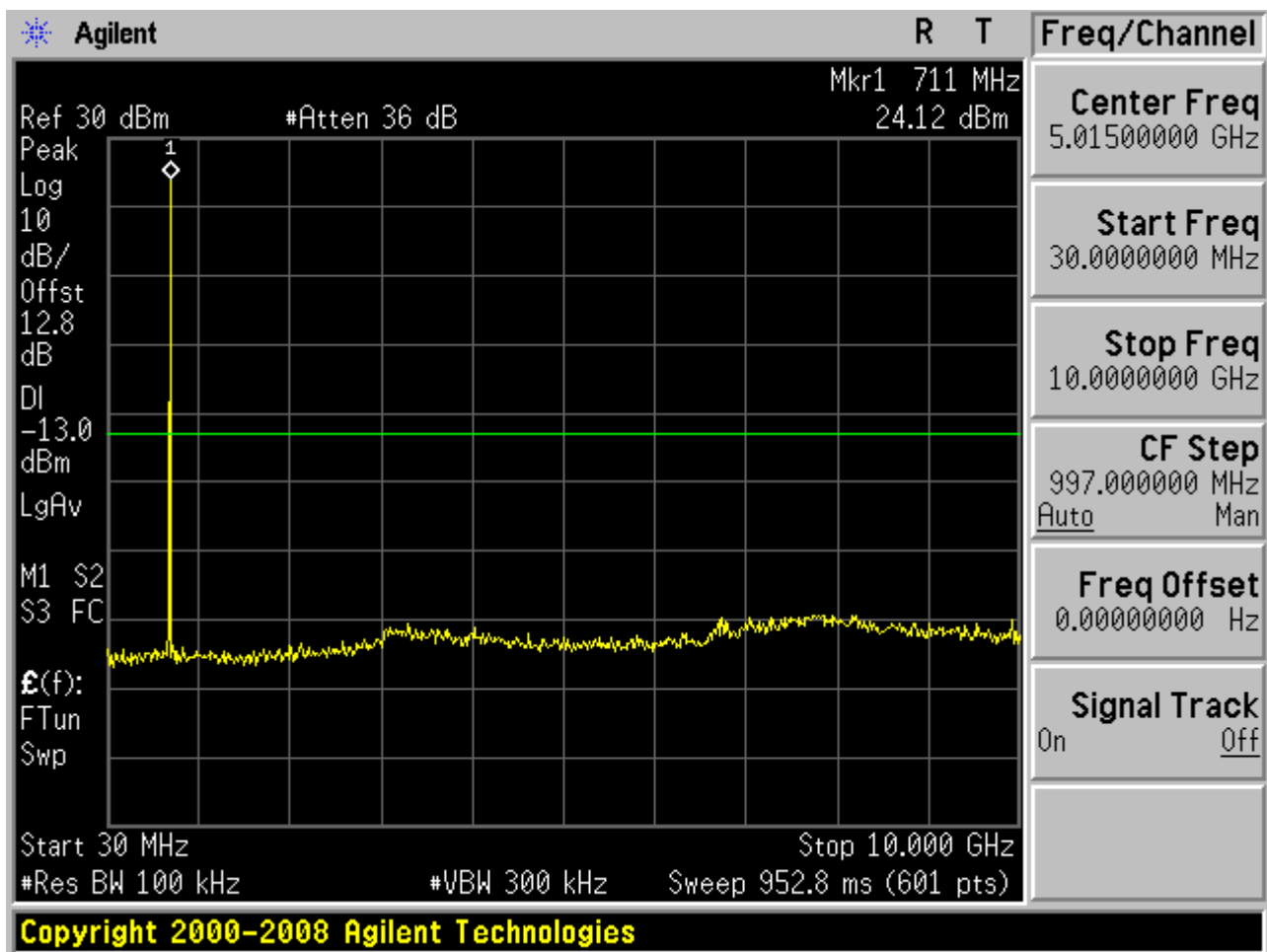
1.1.2 Channel Bandwidth = 10 MHz

1.1.2.1 Channel = B

1.1.2.1.1 QPSK/1RBs /RB #0



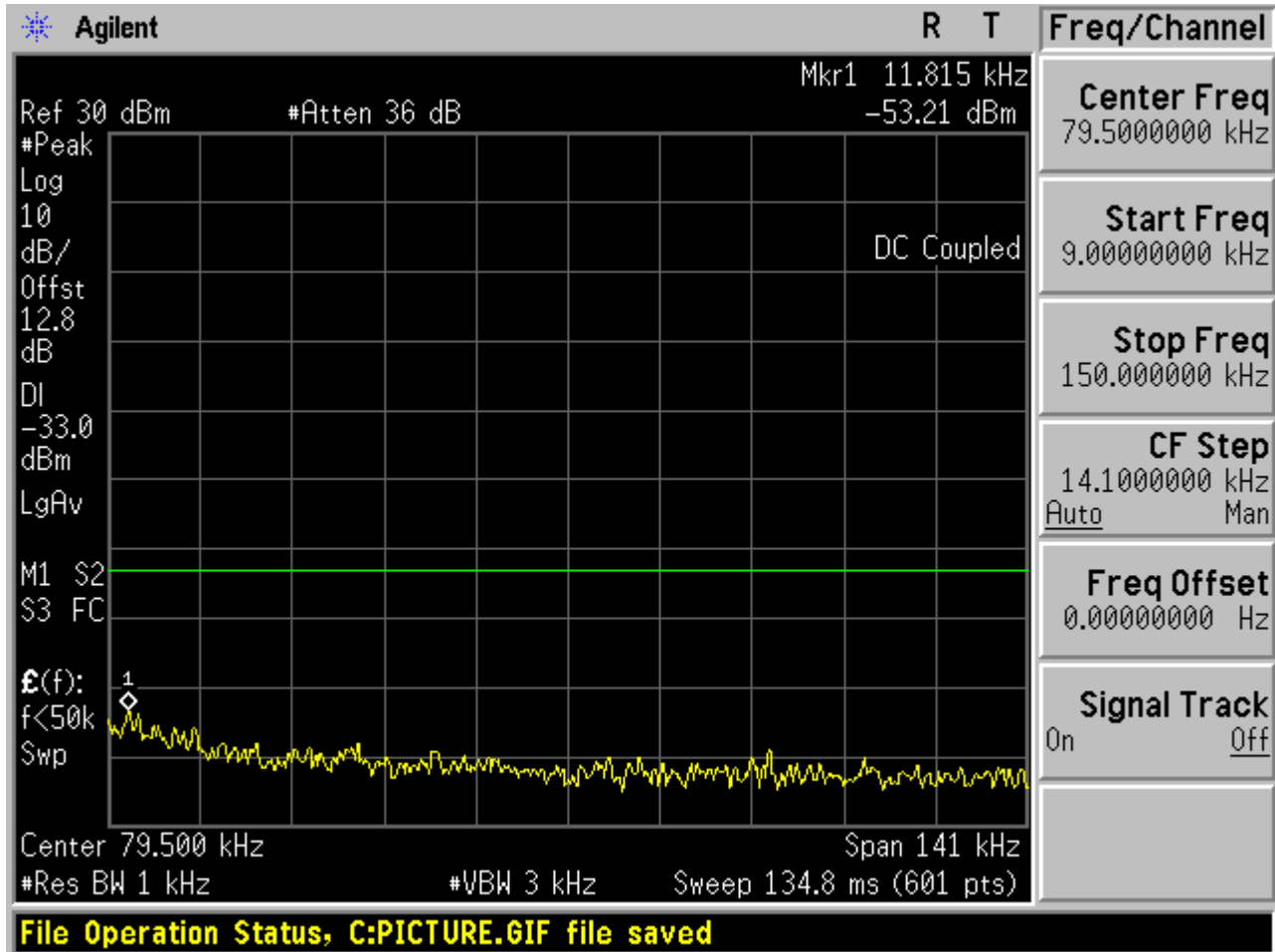


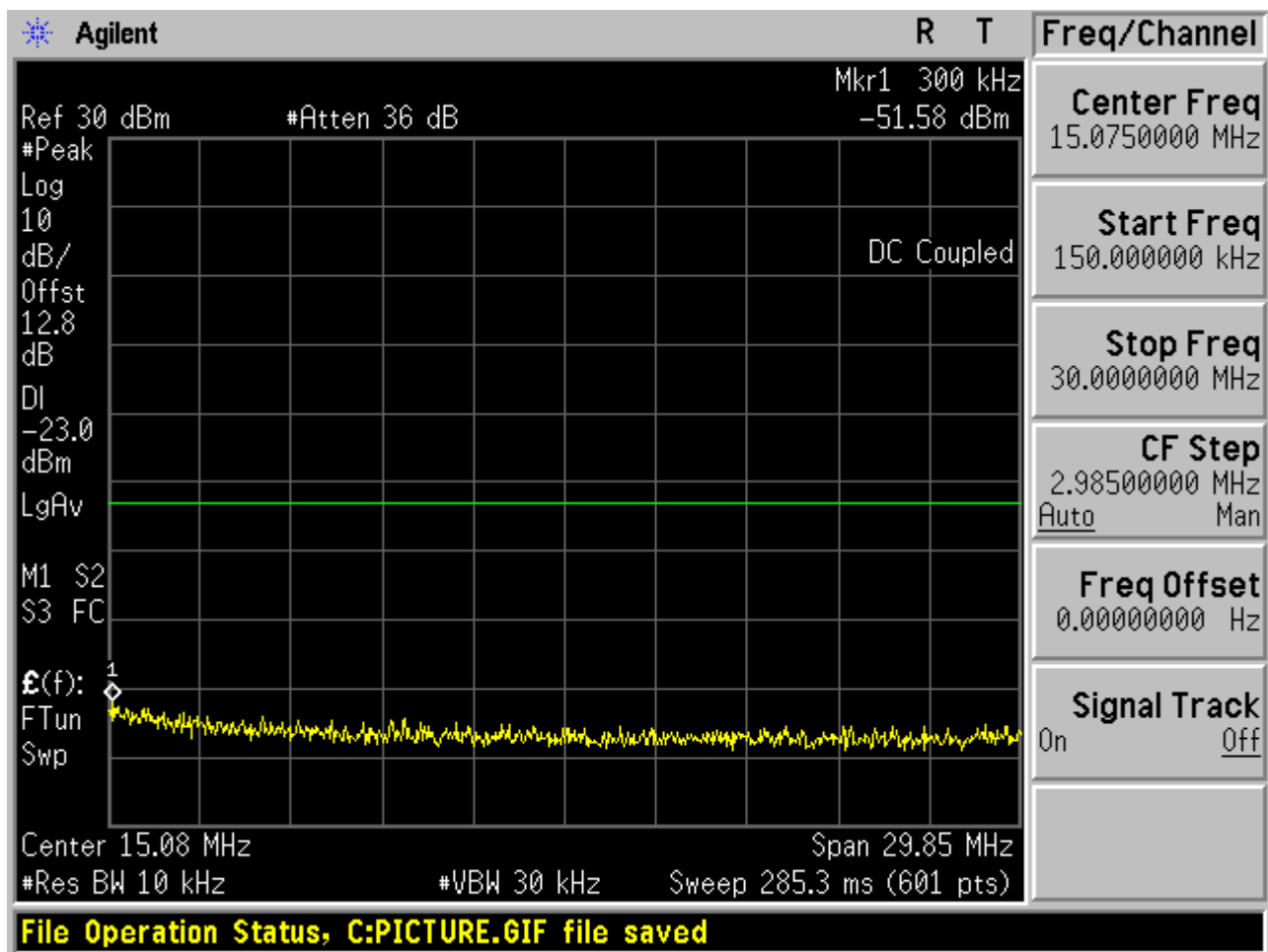


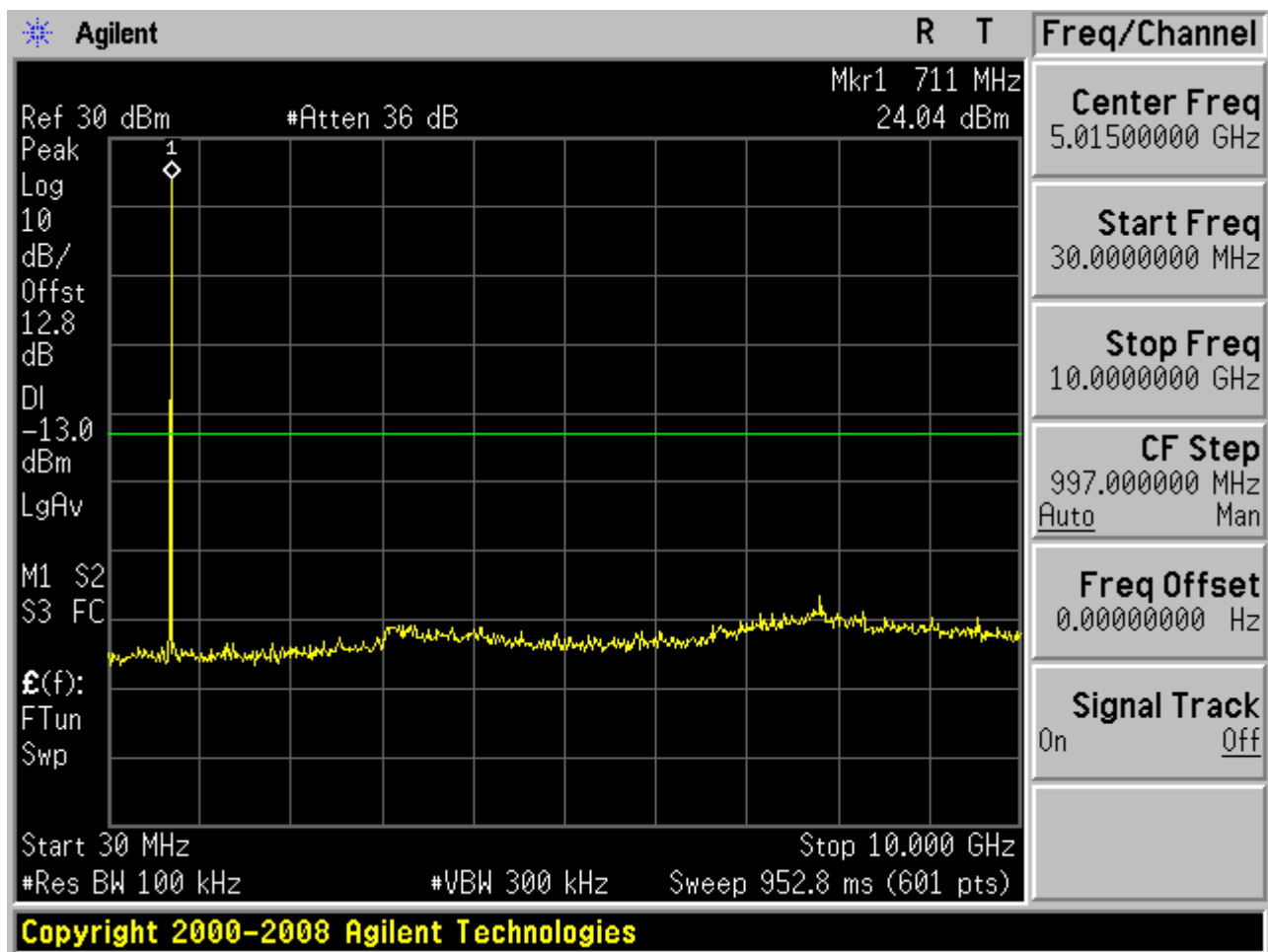


1.1.2.2 Channel = M

1.1.2.2.1 QPSK/1RBs /RB #0



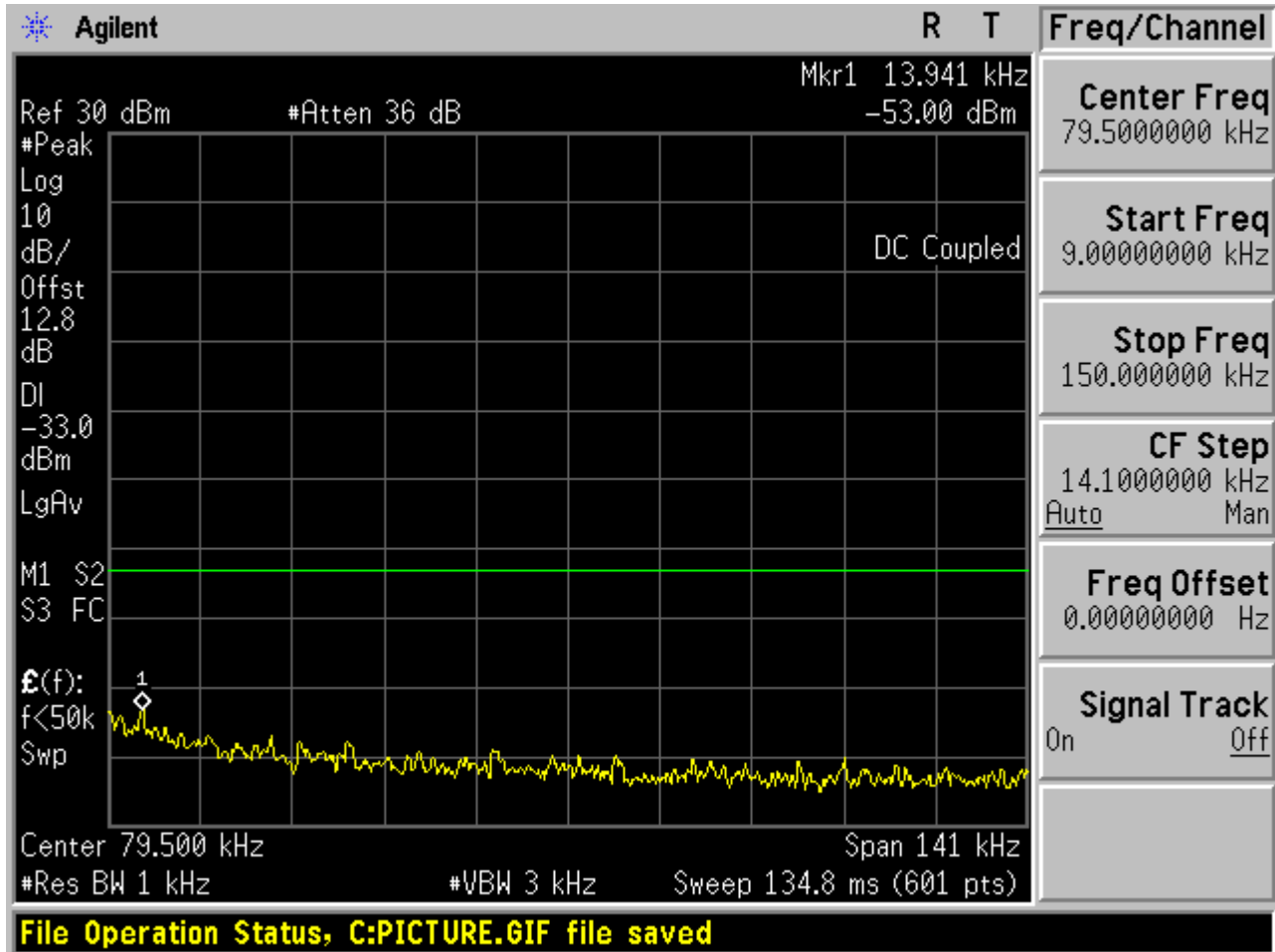


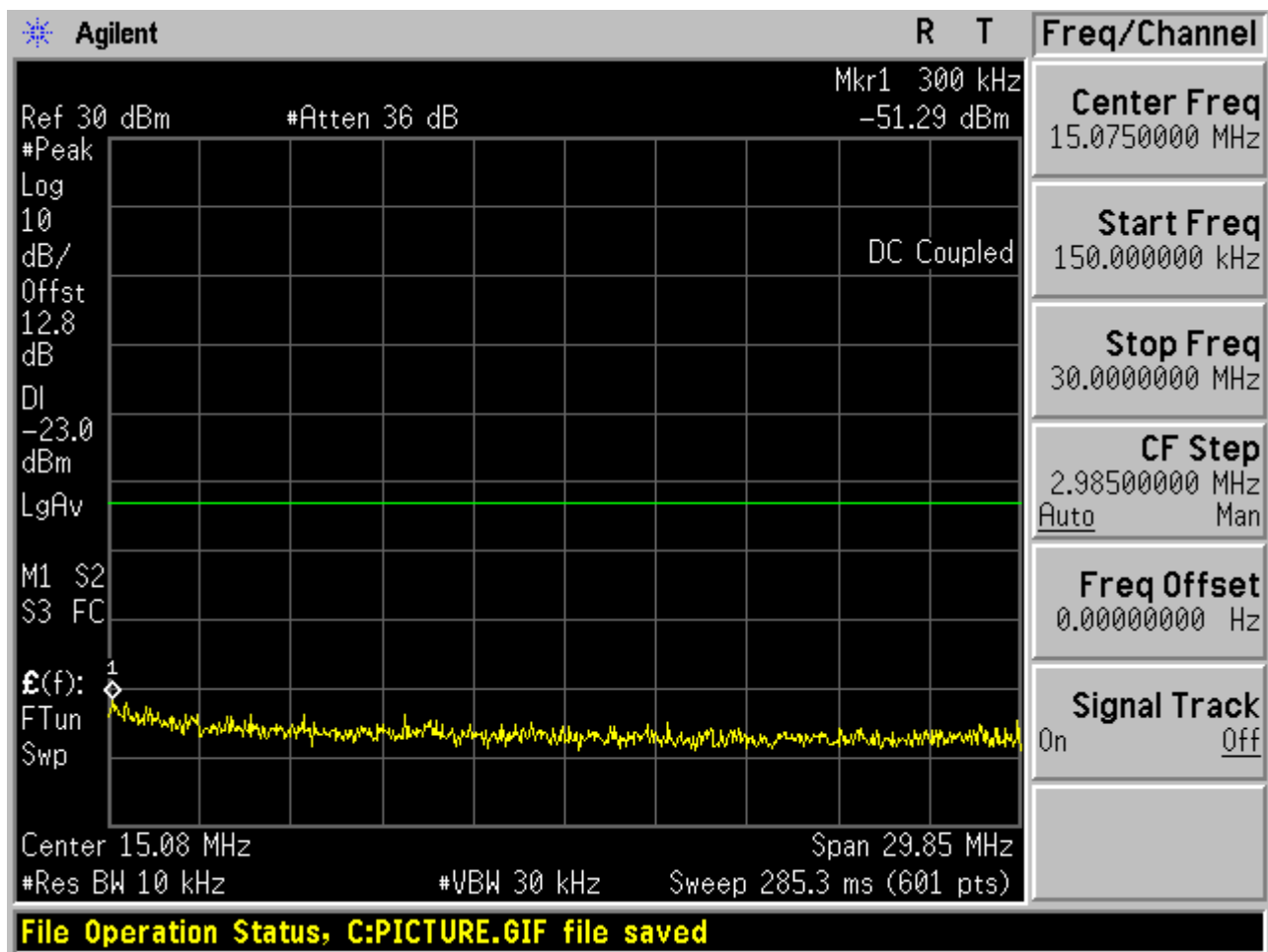


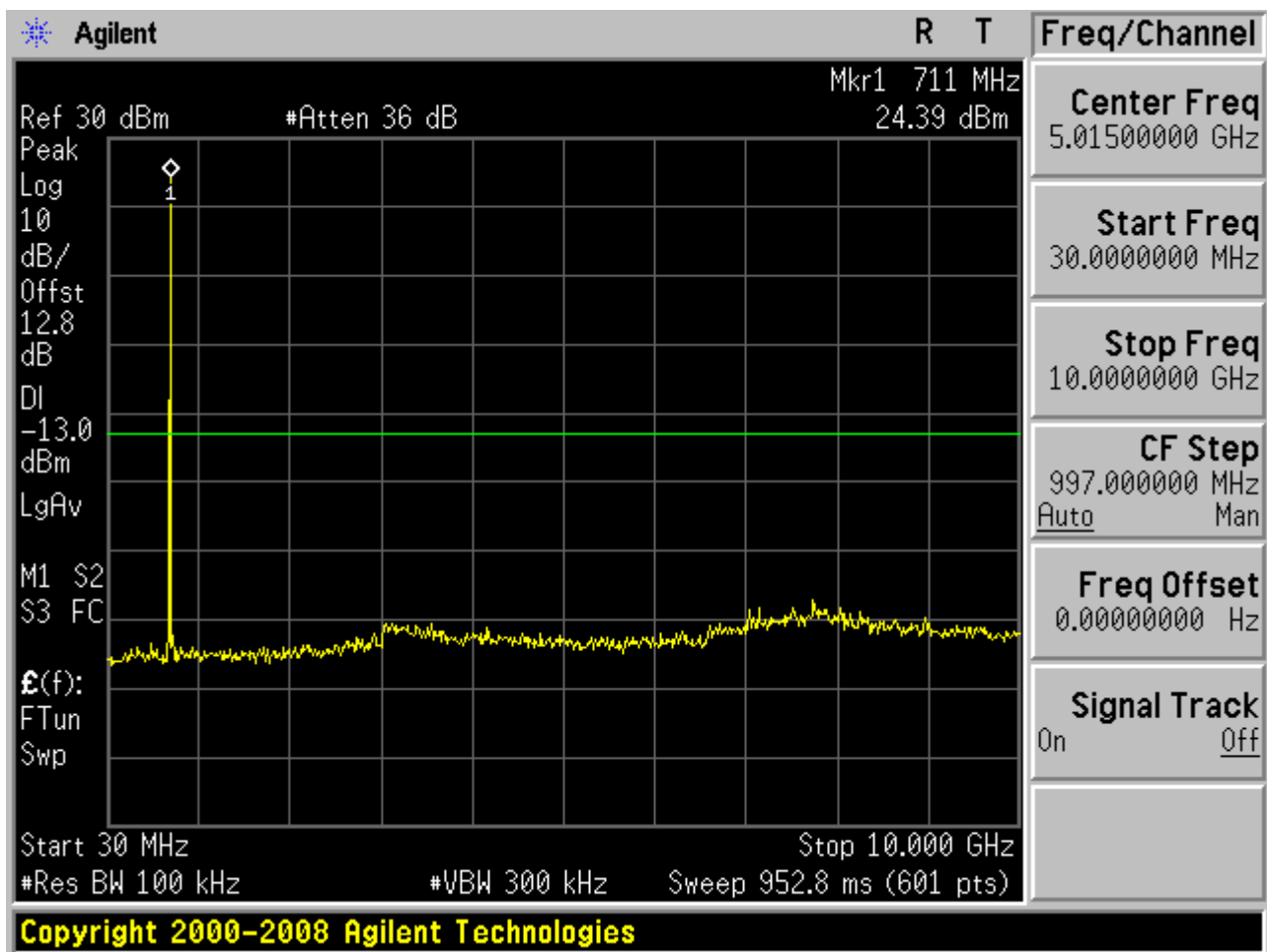


1.1.2.3 Channel = T

1.1.2.3.1 QPSK/1RBs /RB #0





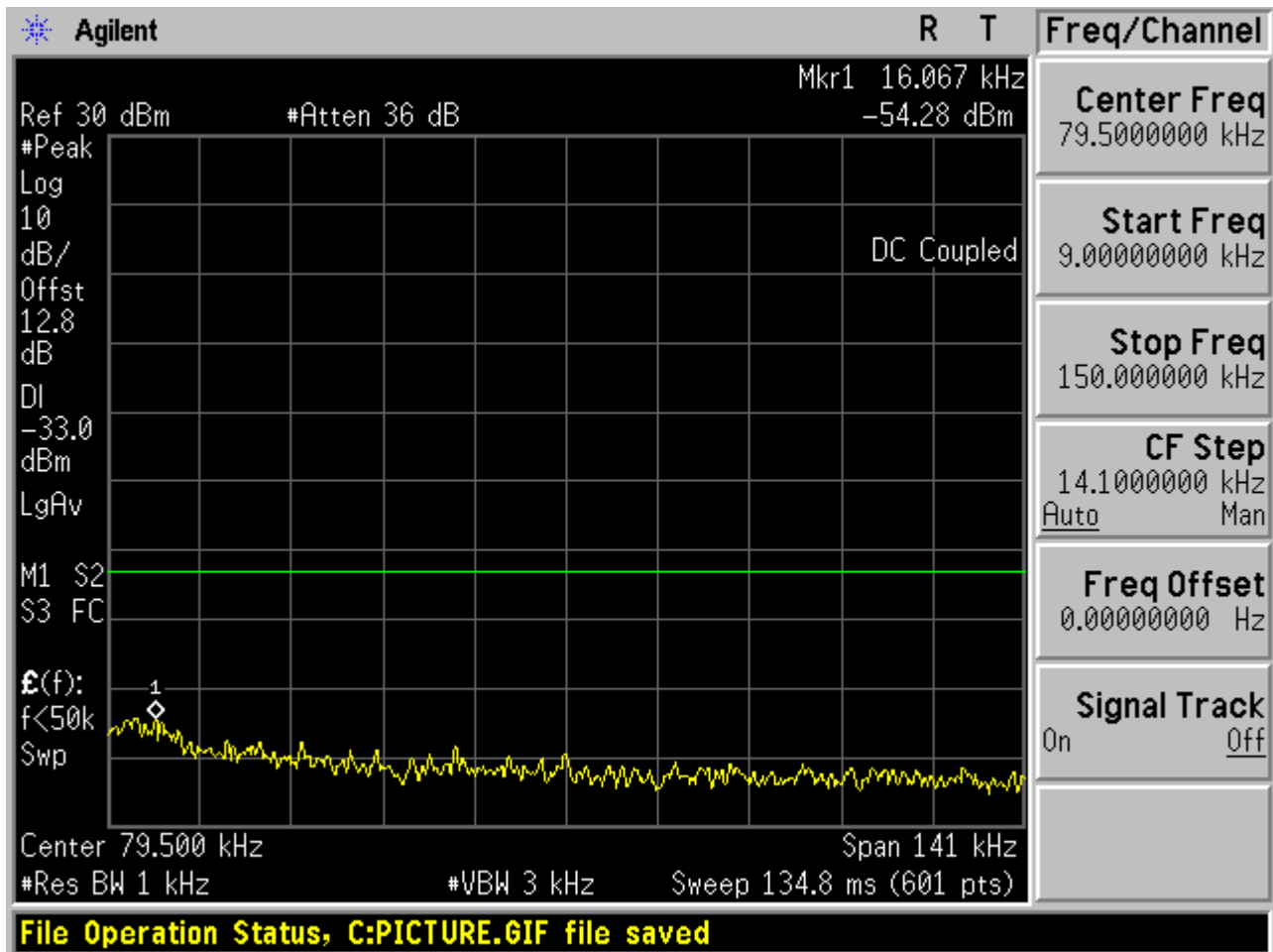


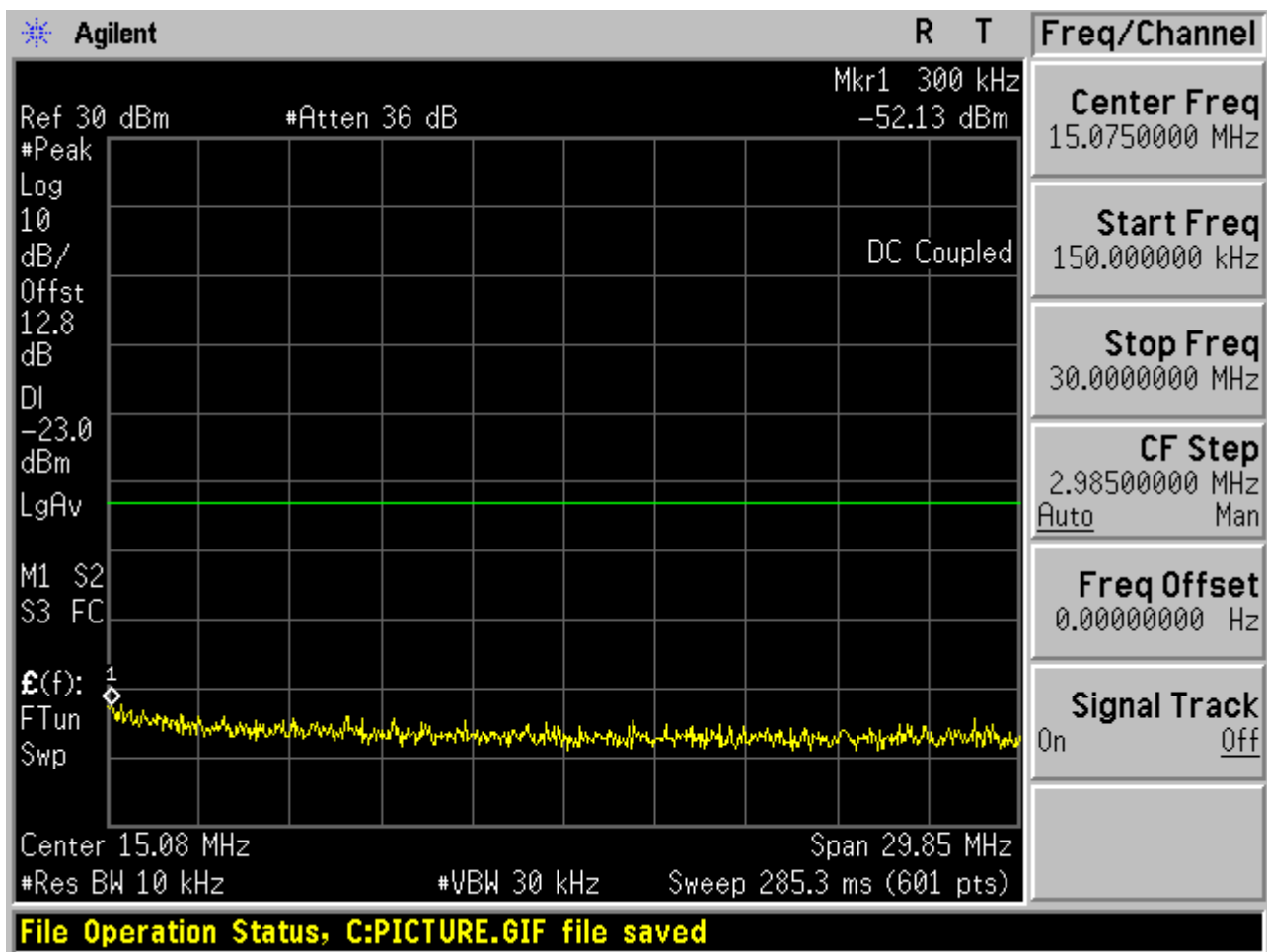
1.2 Test Mode=TM2

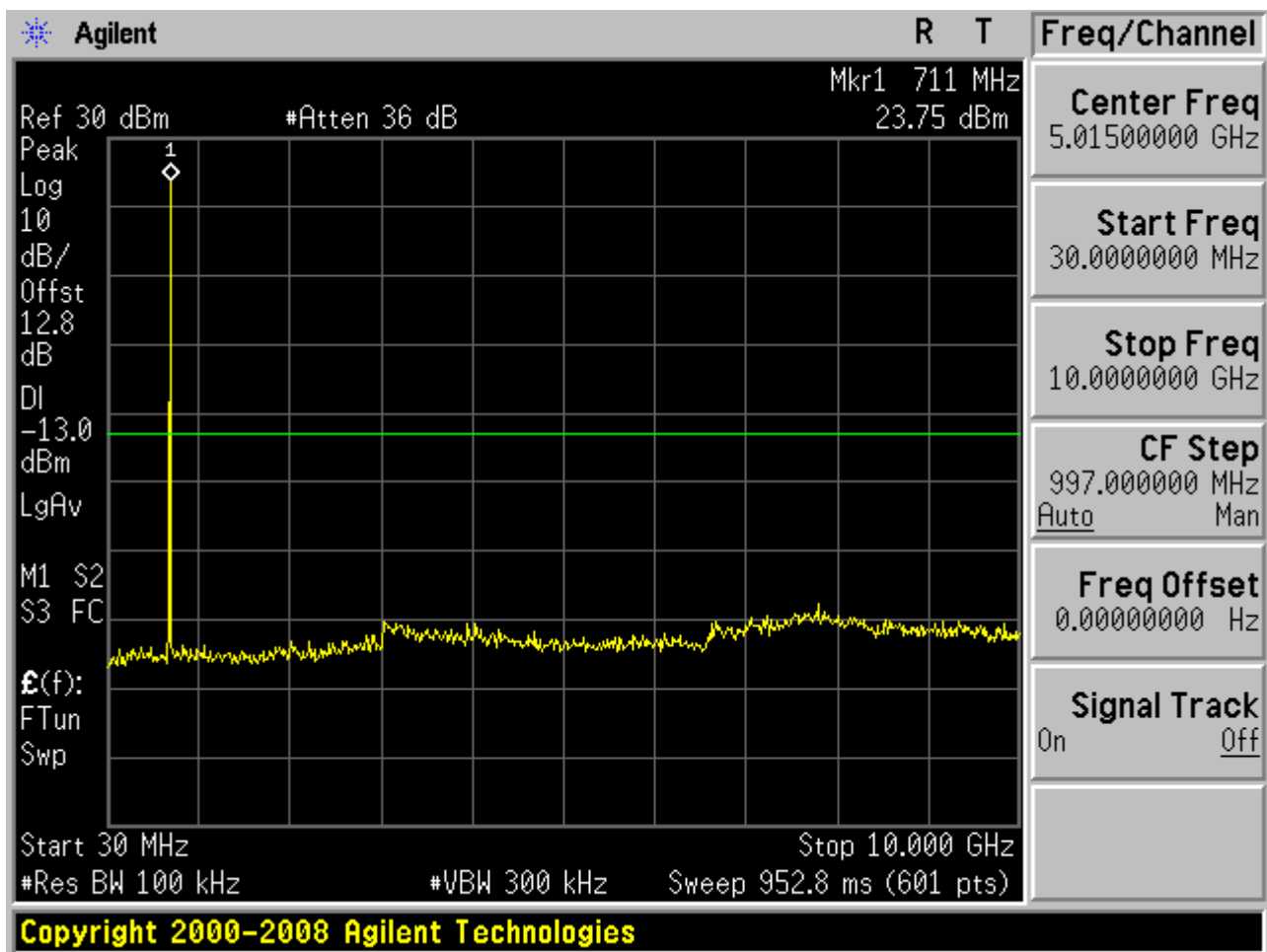
1.2.1 Channel Bandwidth = 5 MHz

1.2.1.1 Channel = B

1.2.1.1.1 16QAM/1RBs /RB #0



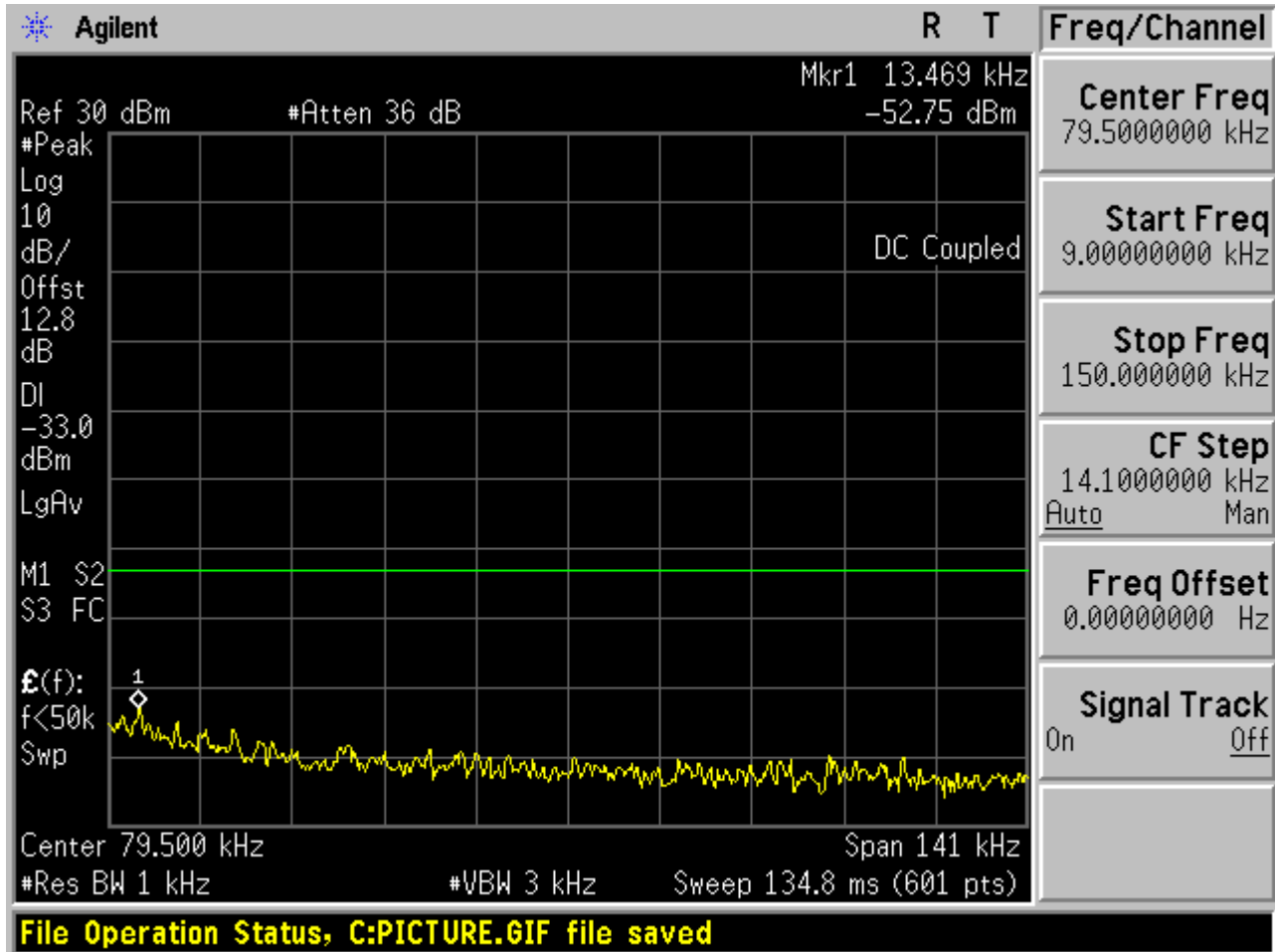


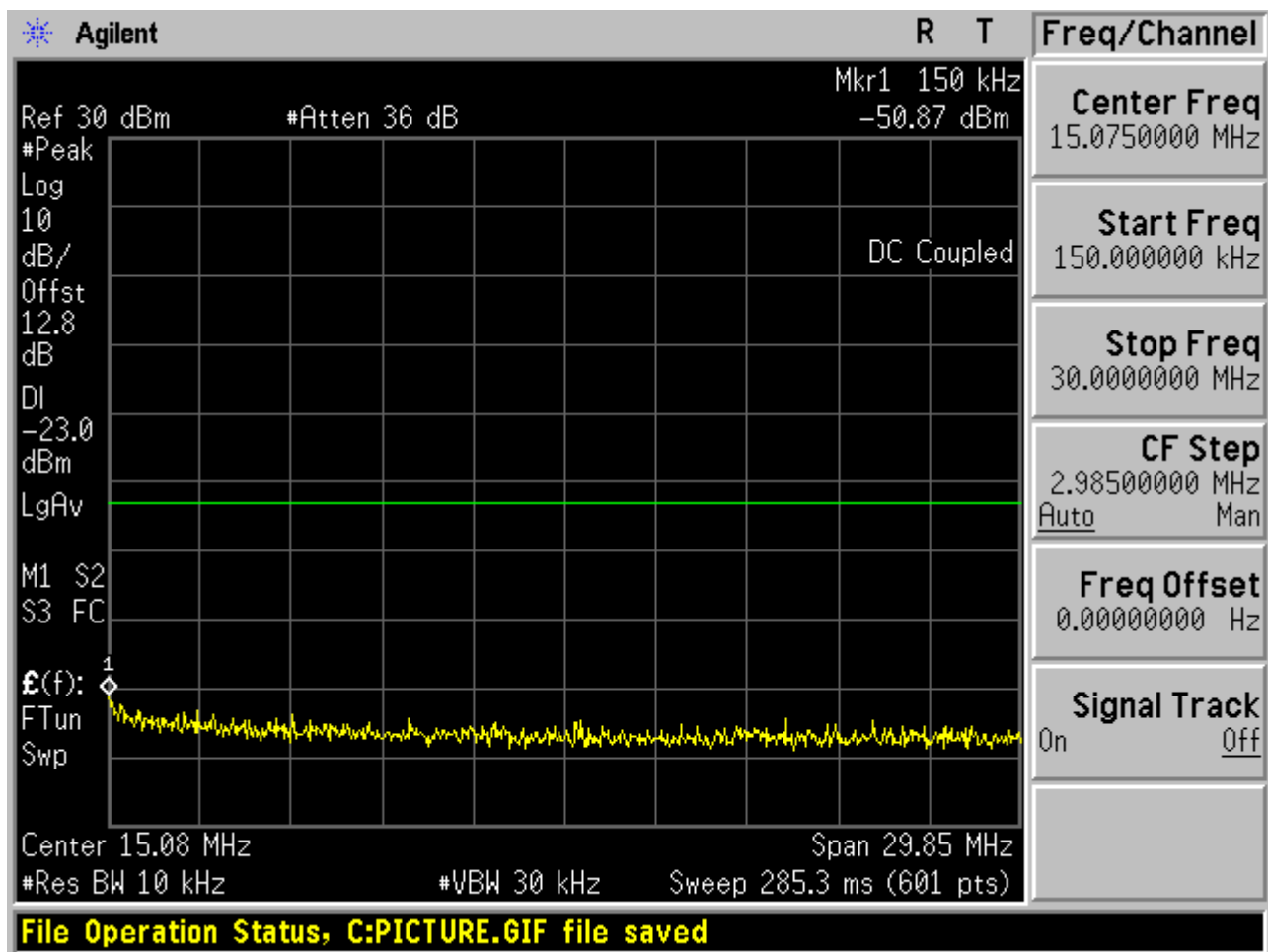


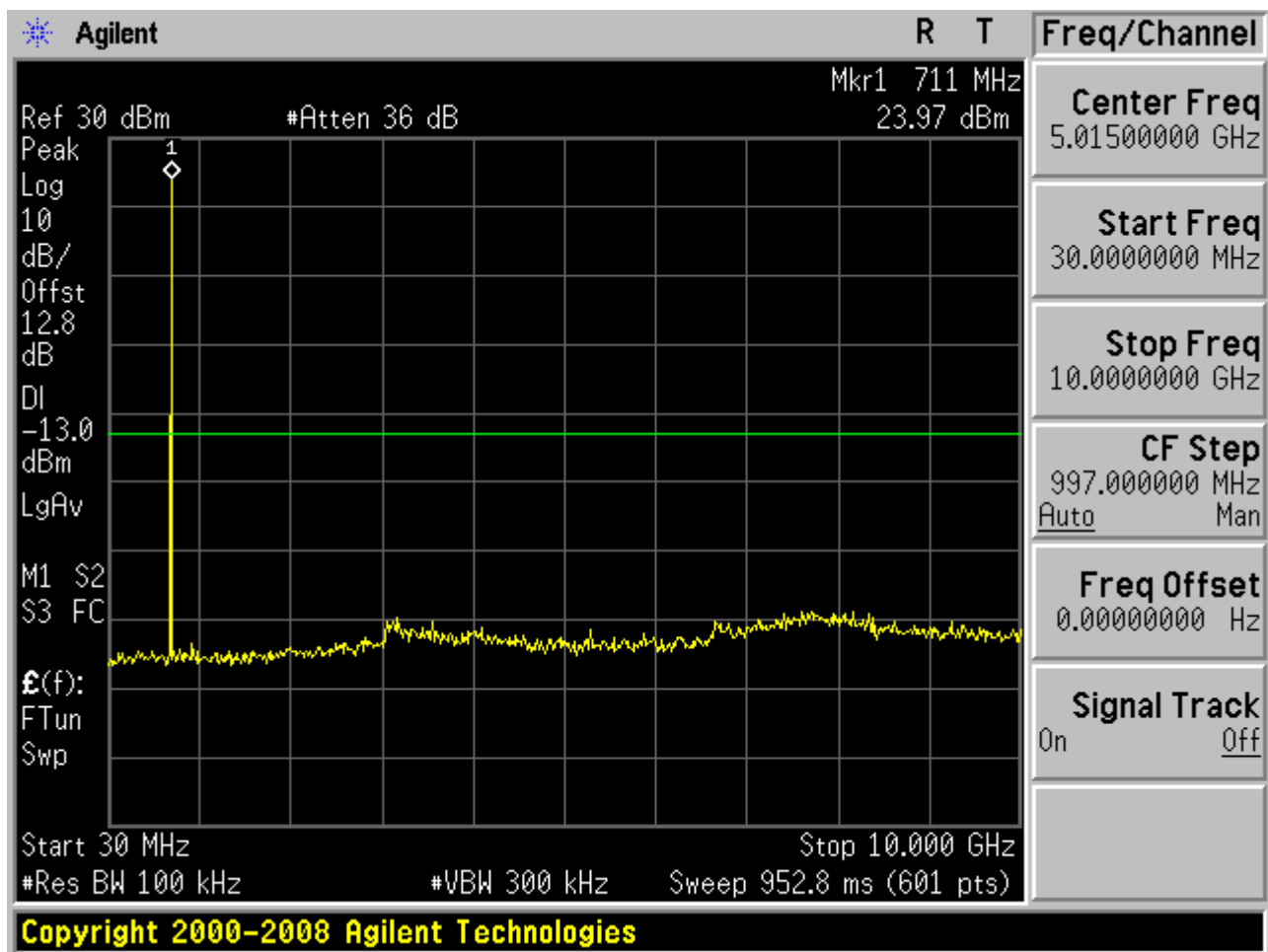


1.2.1.2 Channel = M

1.2.1.2.1 16QAM/1RBs /RB #0



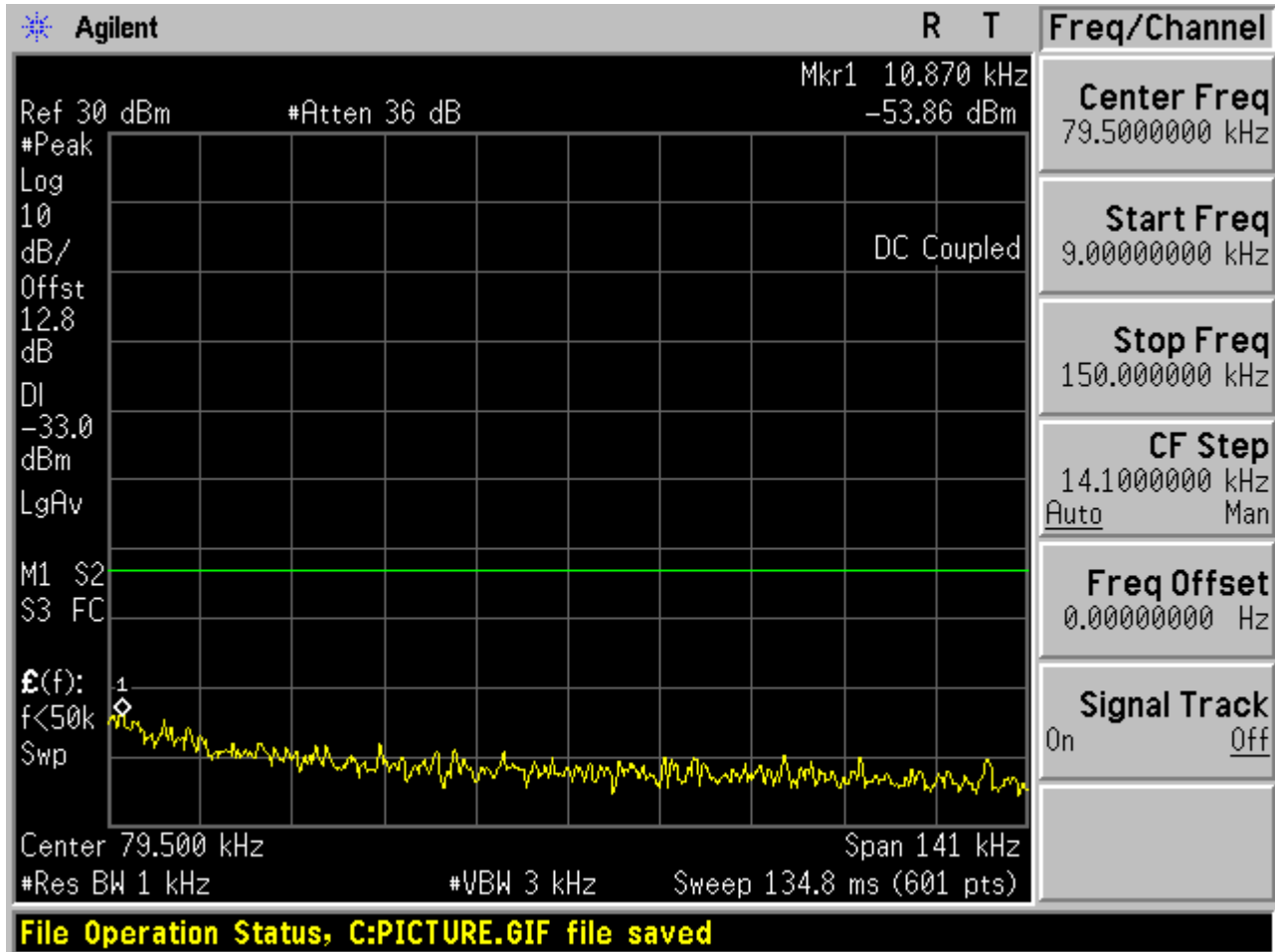


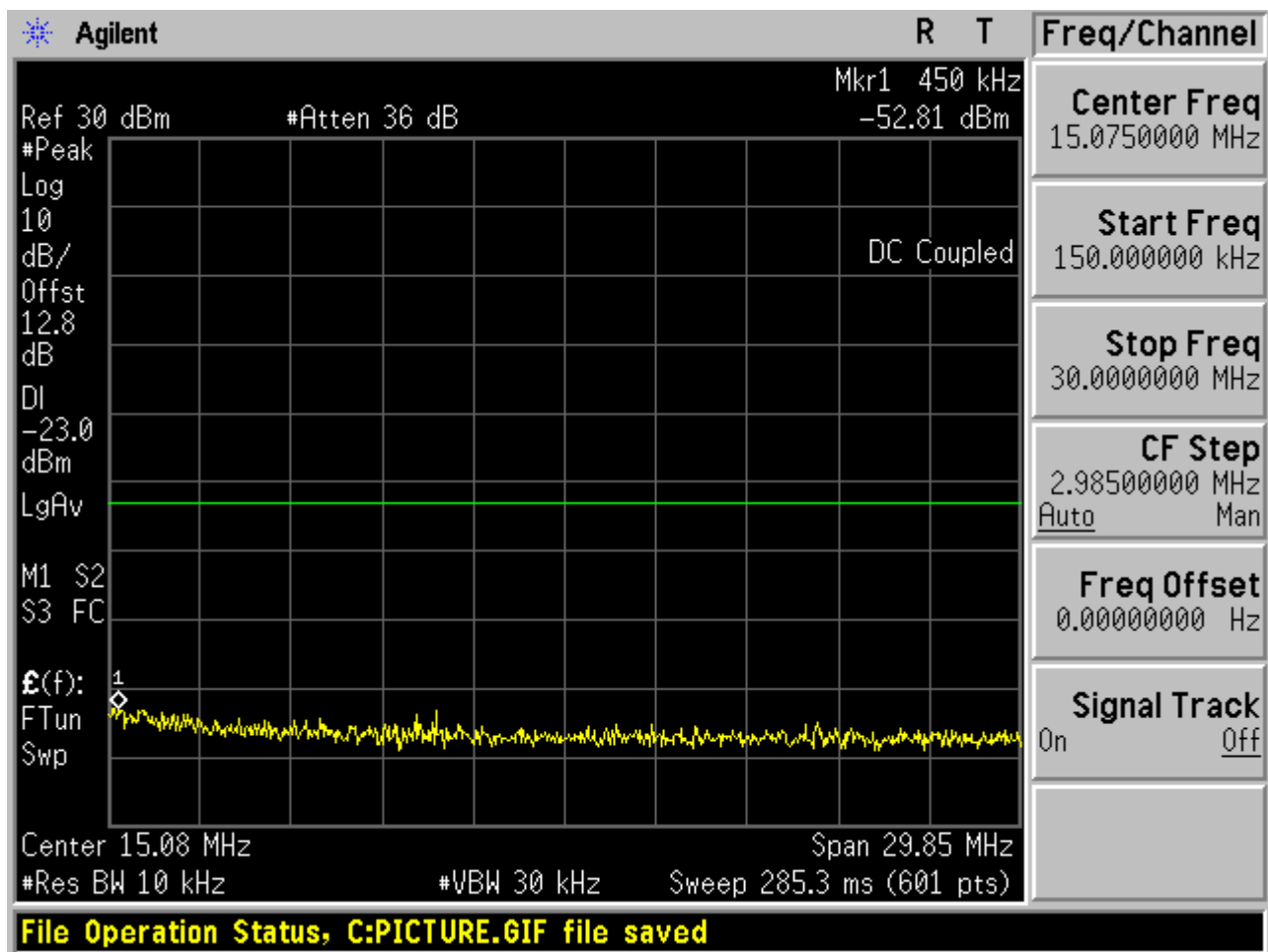


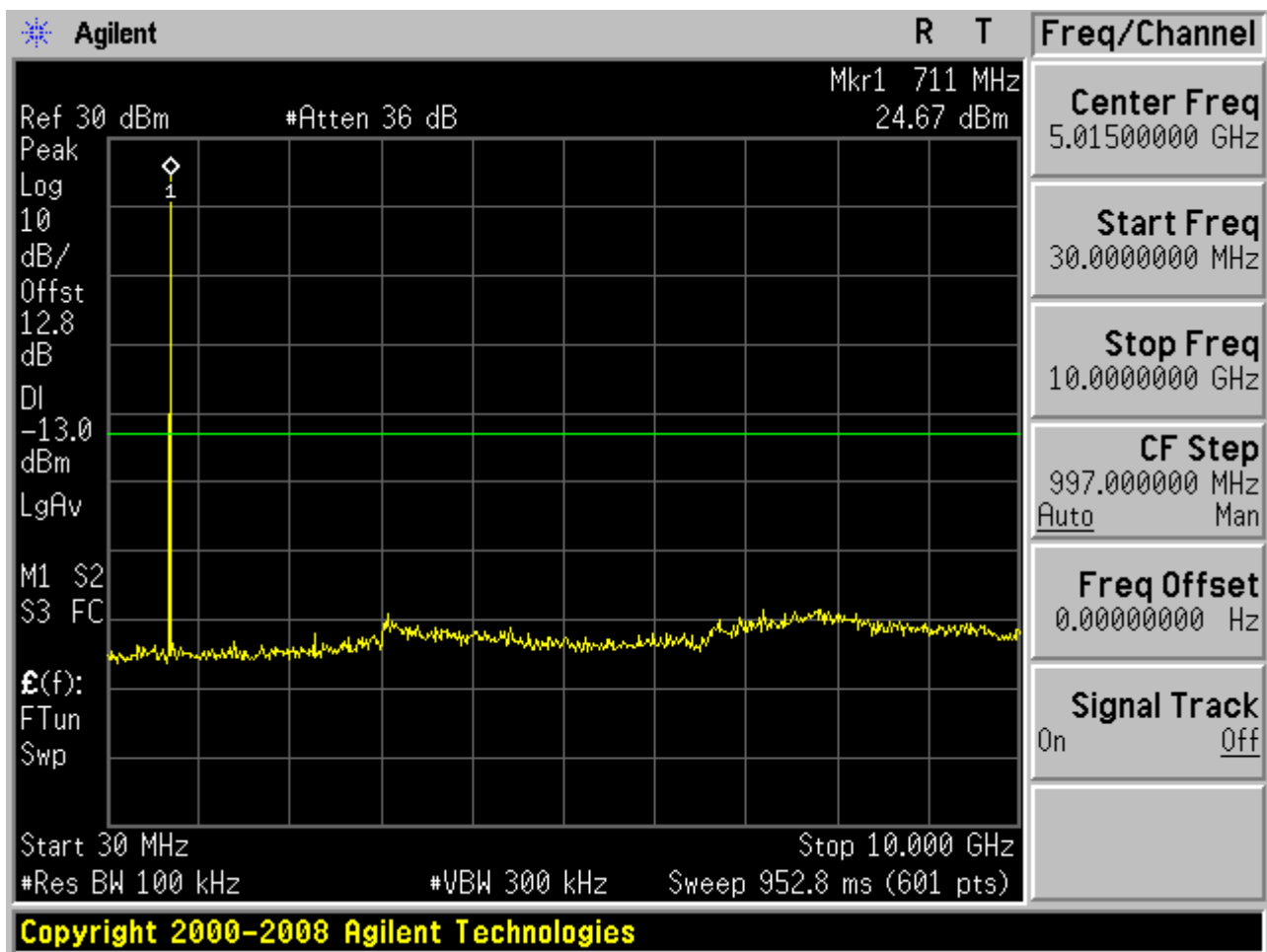


1.2.1.3 Channel = T

1.2.1.3.1 16QAM/1RBs /RB #0





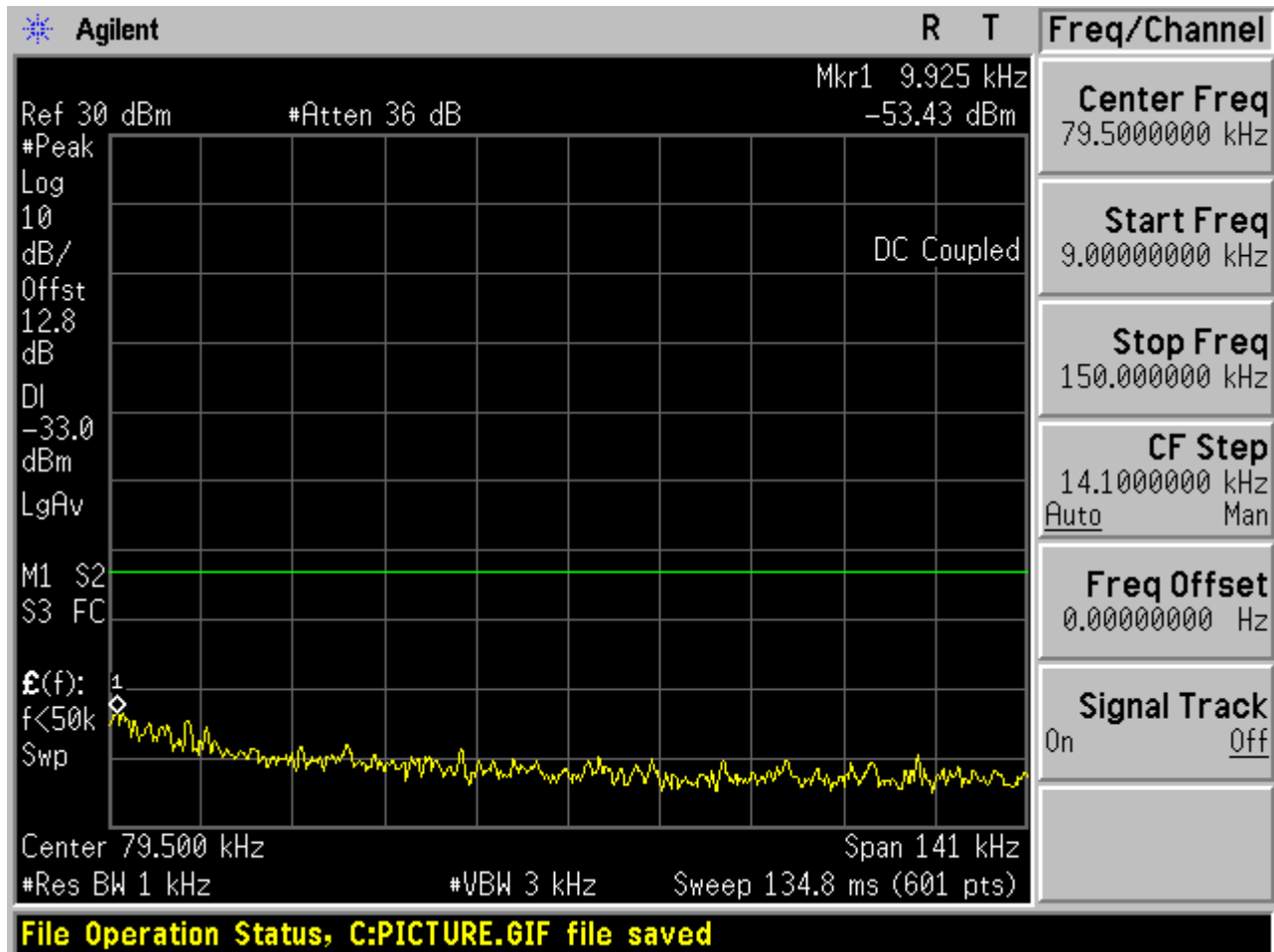


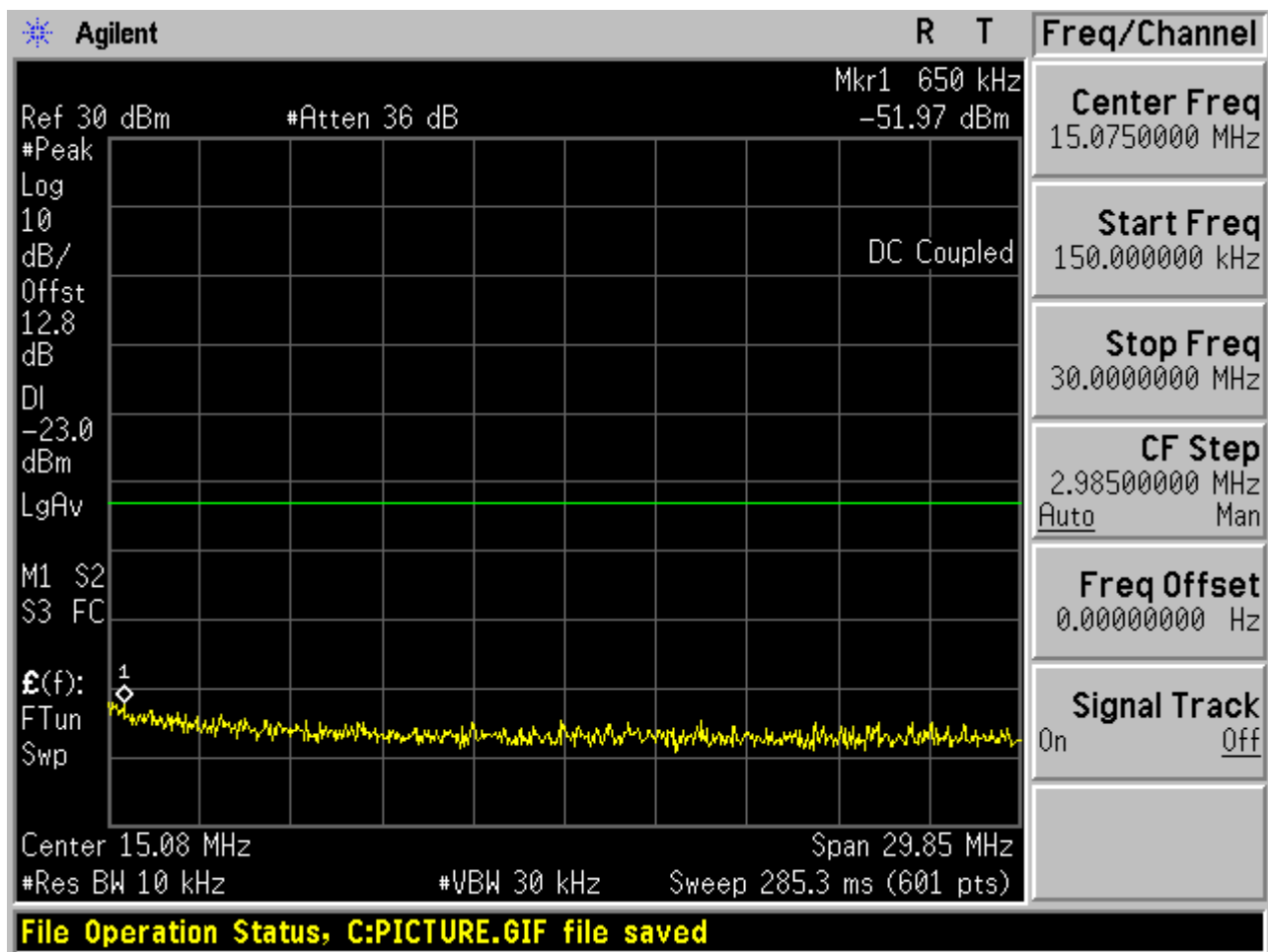


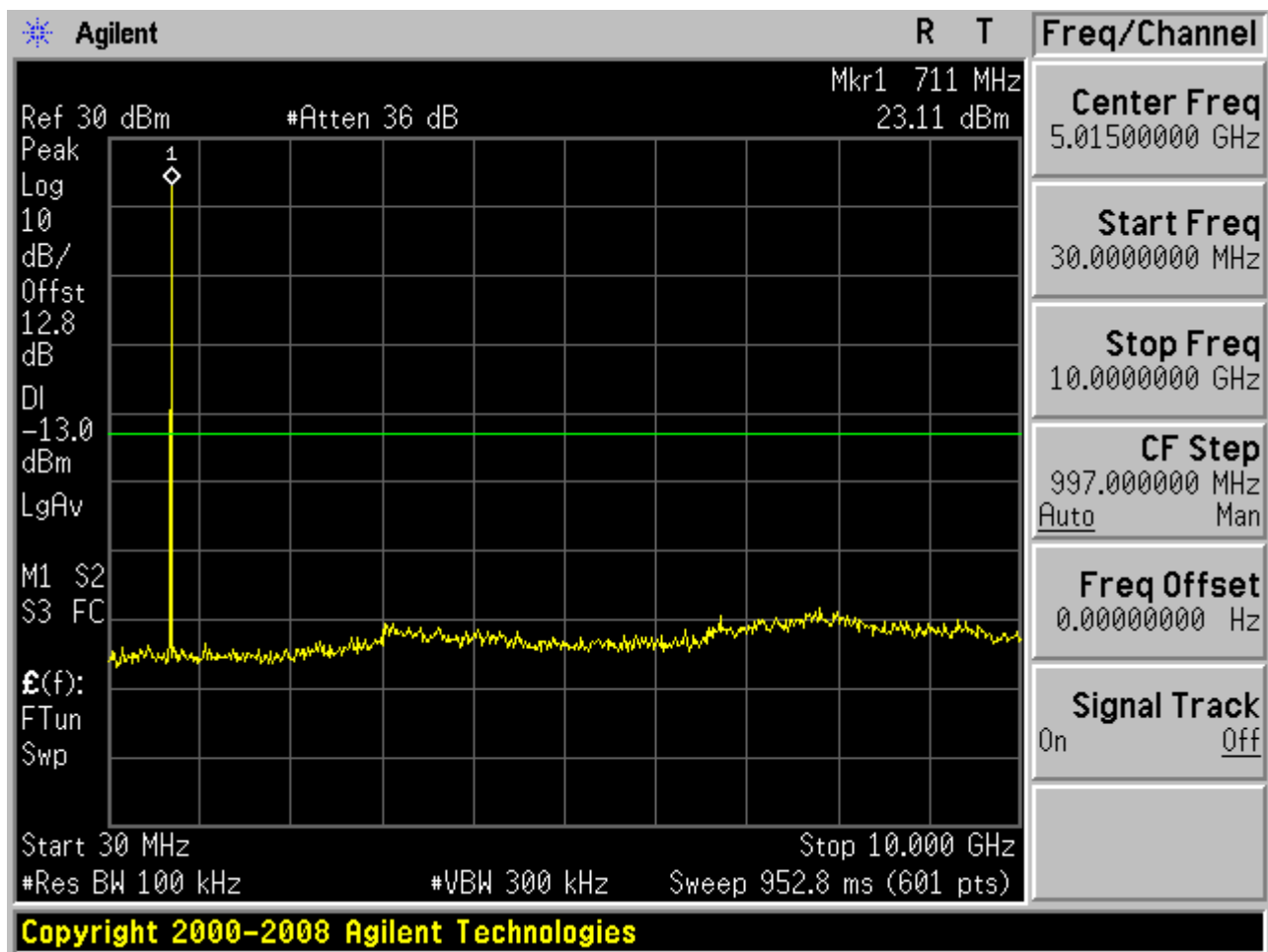
1.2.2 Channel Bandwidth = 10 MHz

1.2.2.1 Channel = B

1.2.2.1.1 16QAM/1RBs /RB #0



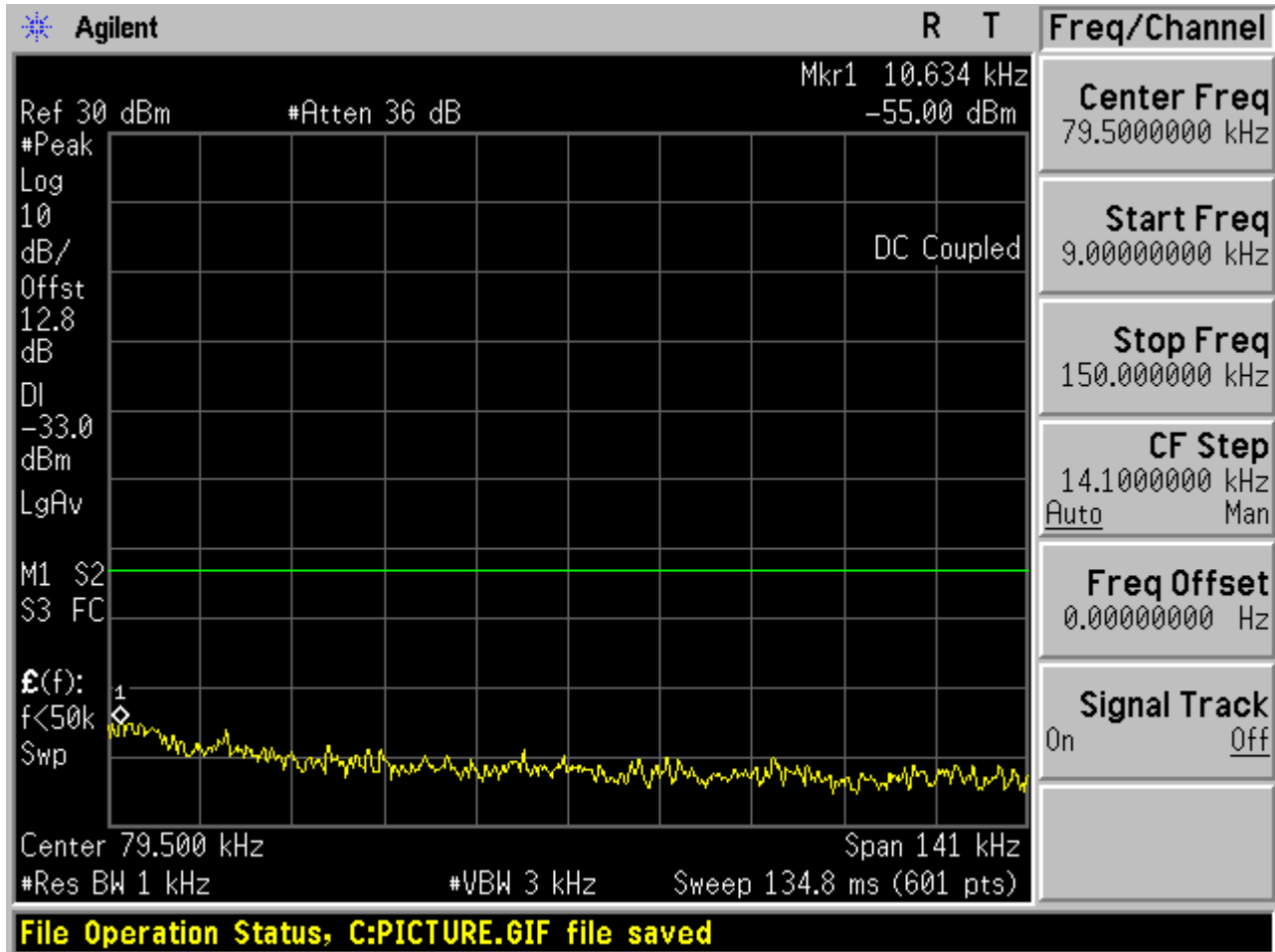


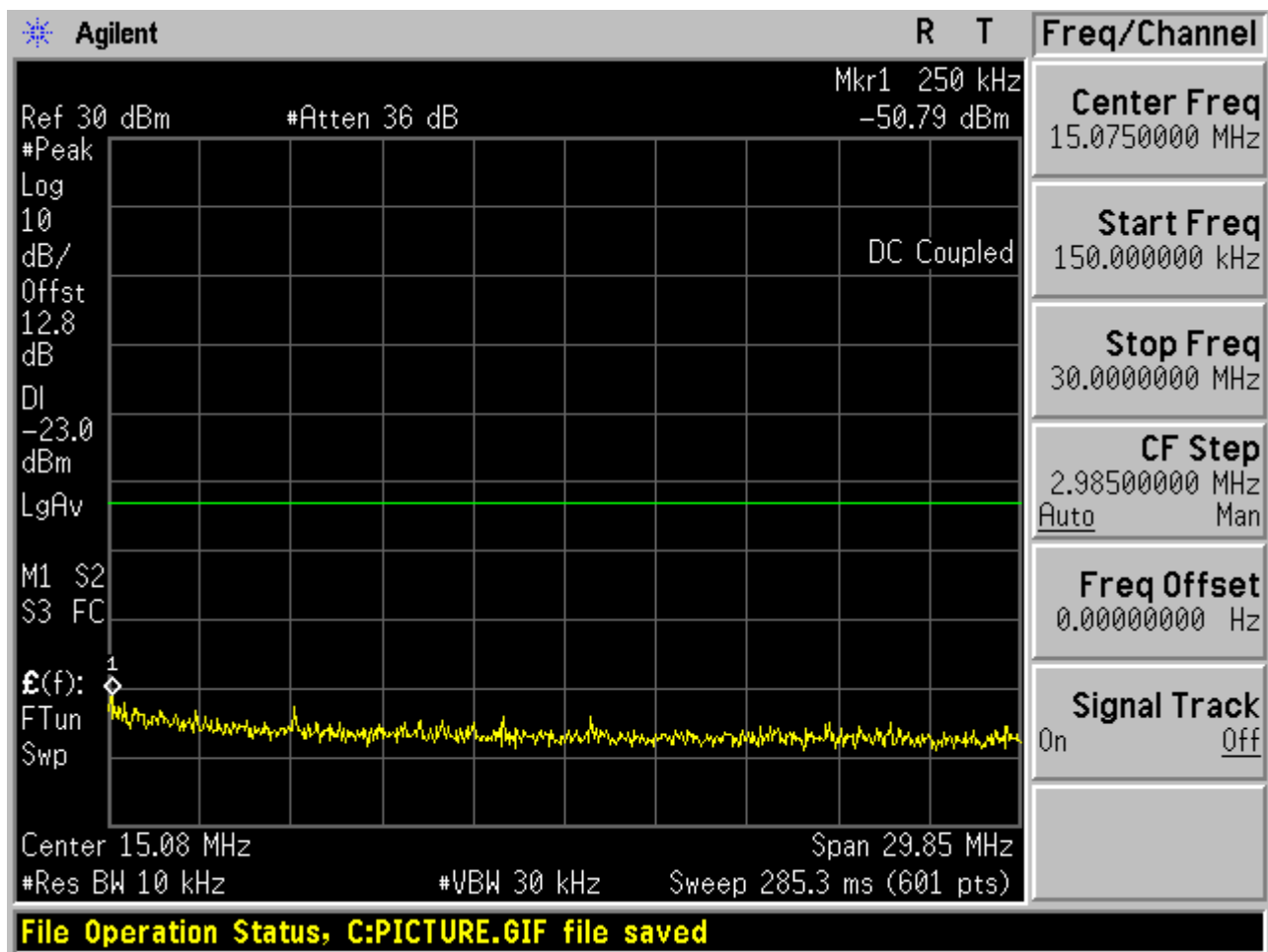


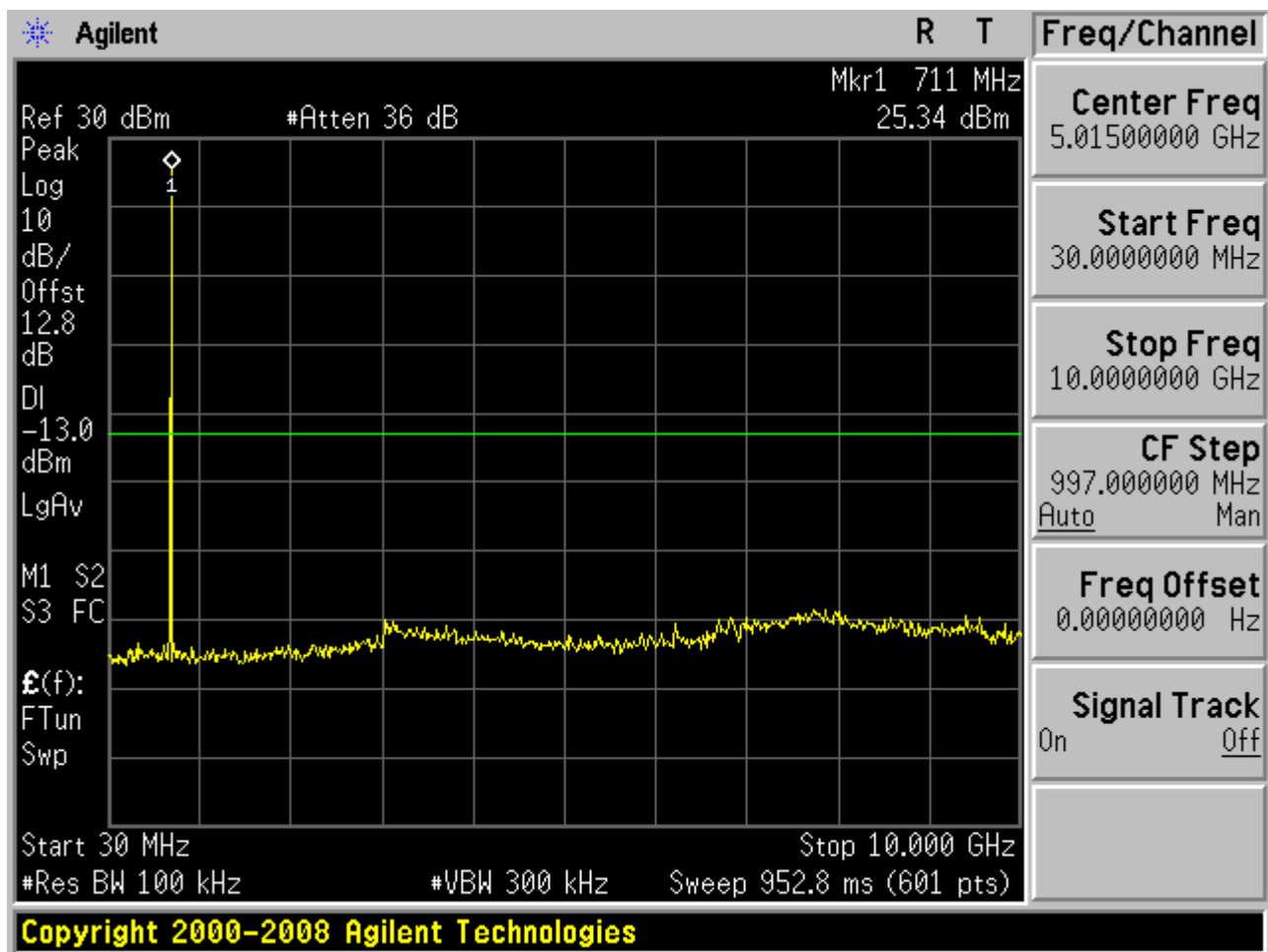


1.2.2.2 Channel = M

1.2.2.2.1 16QAM/1RBs /RB #0



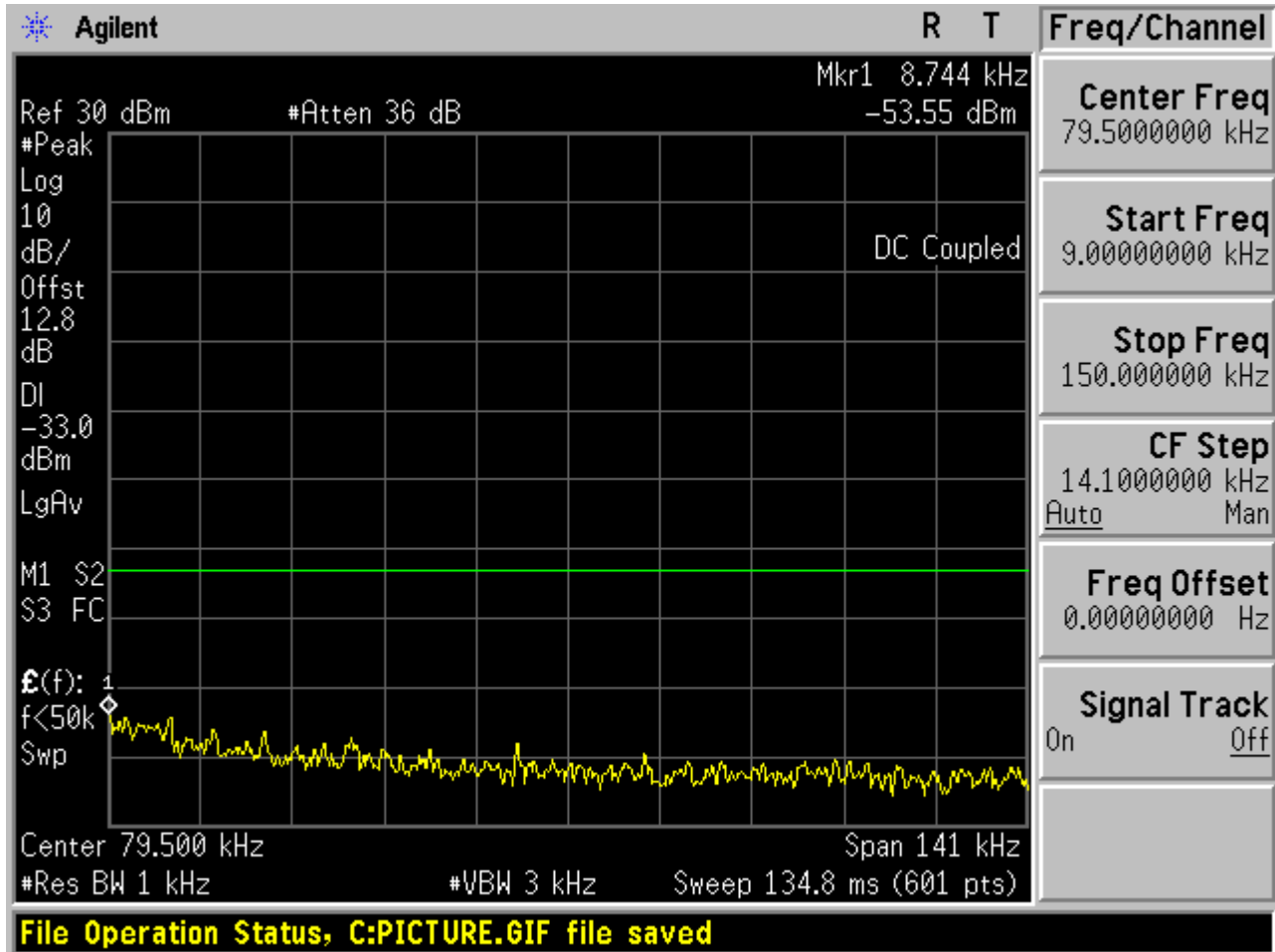


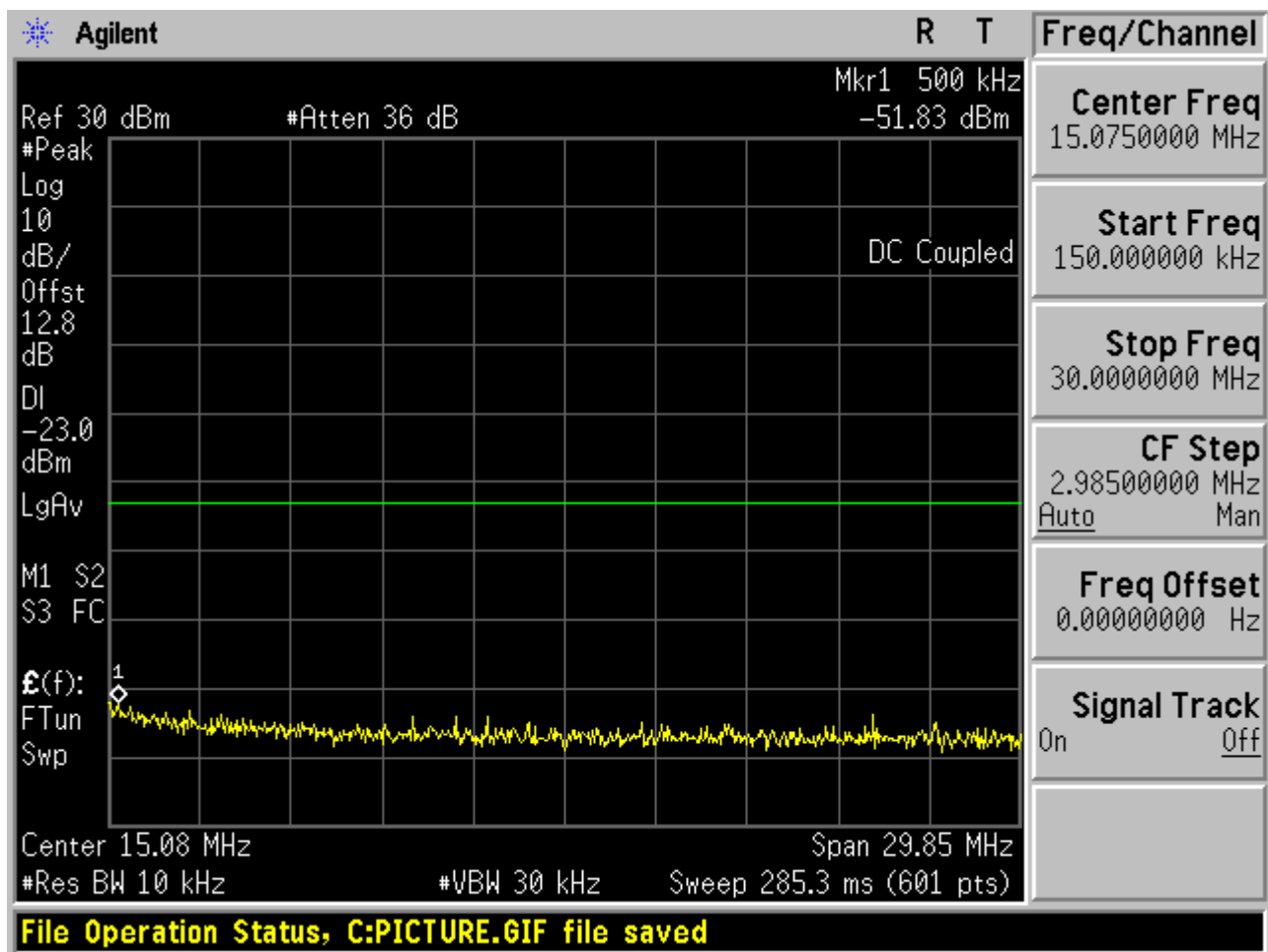


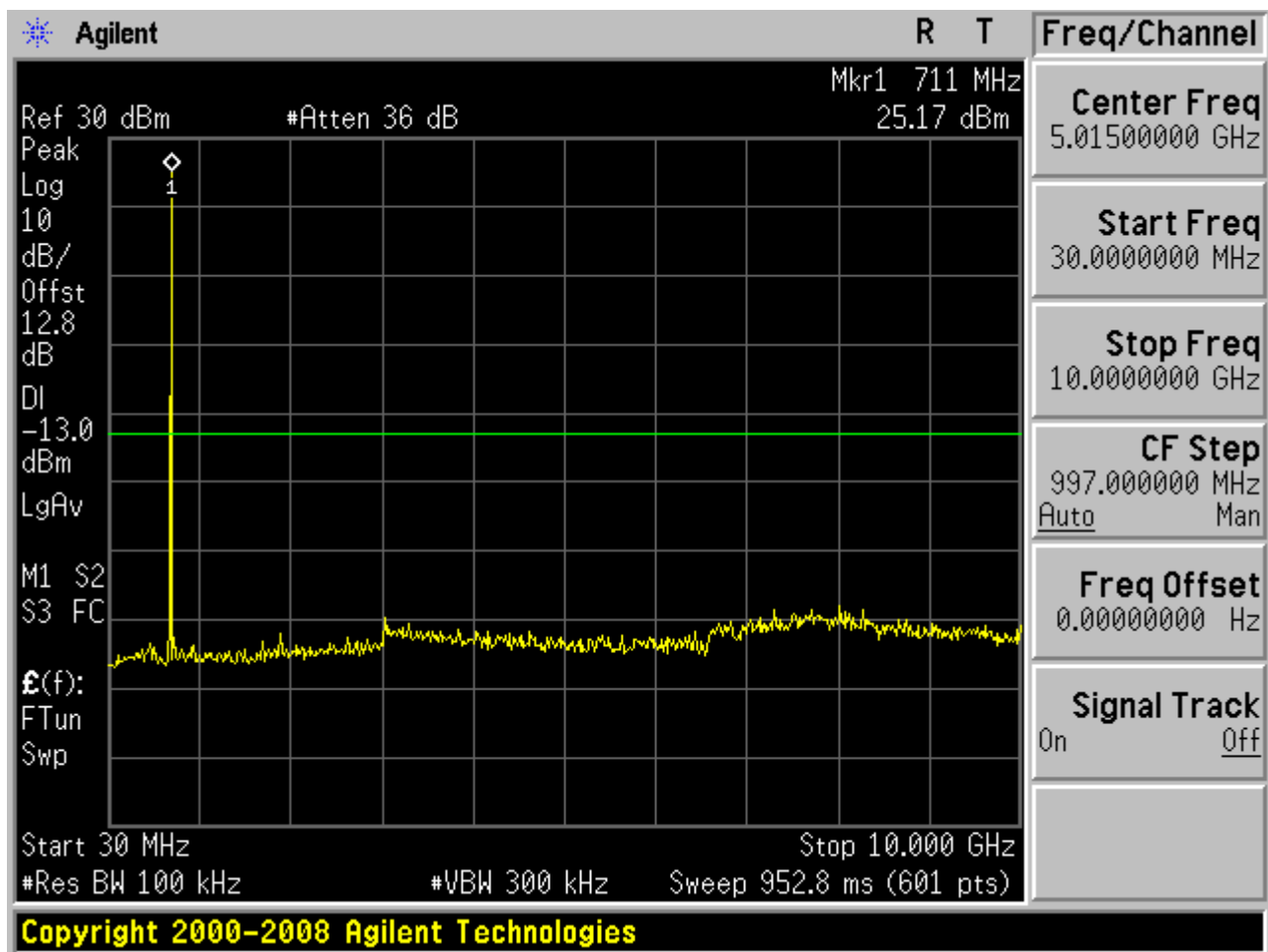


1.2.2.3 Channel = T

1.2.2.3.1 16QAM/1RBs /RB #0







END



Appendix F

Radiated spurious emission

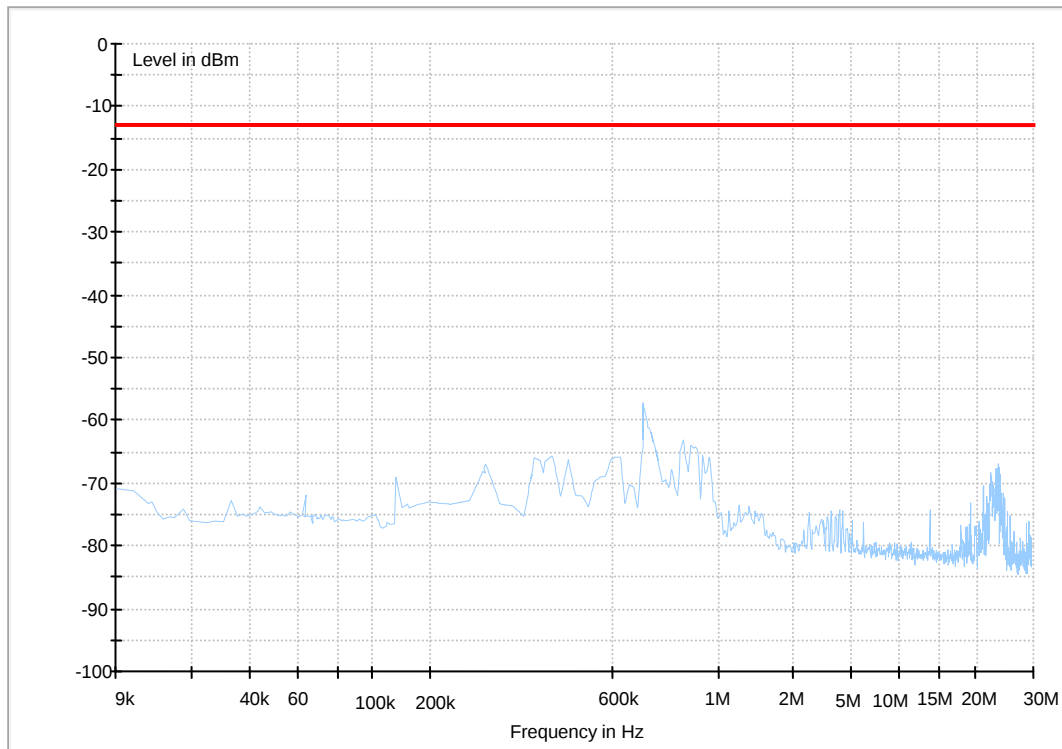
According to FCC Part 2.1053& 27.53(g)



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

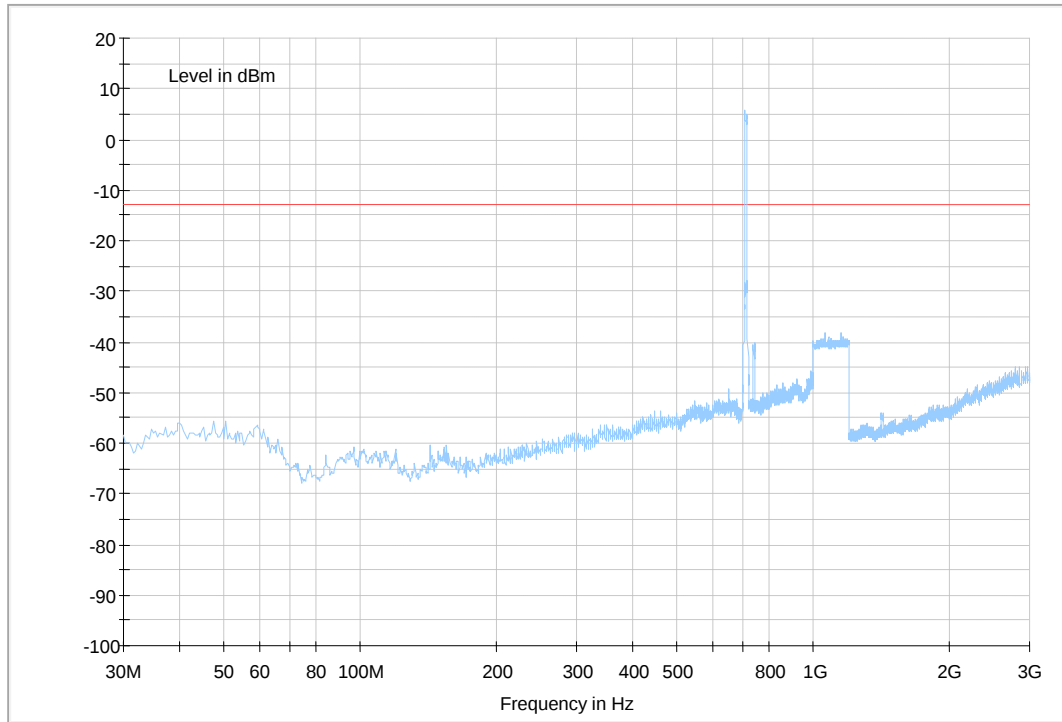
LTE-Band17-5MHz

(9kHz~30MHz)



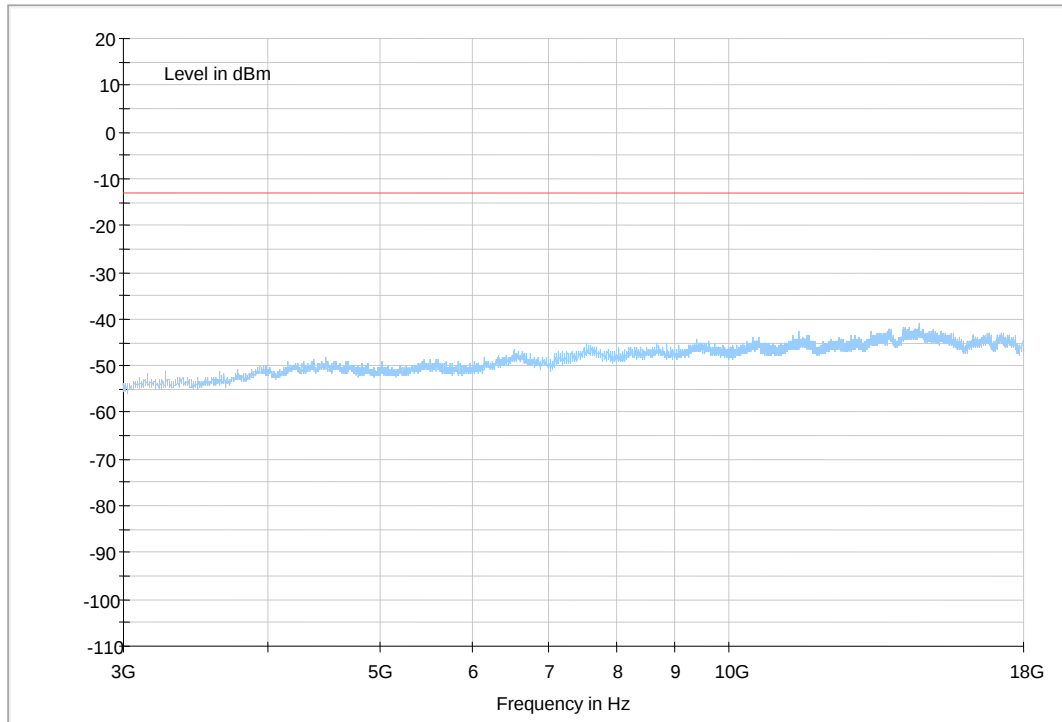


(30MHz~3GHz)



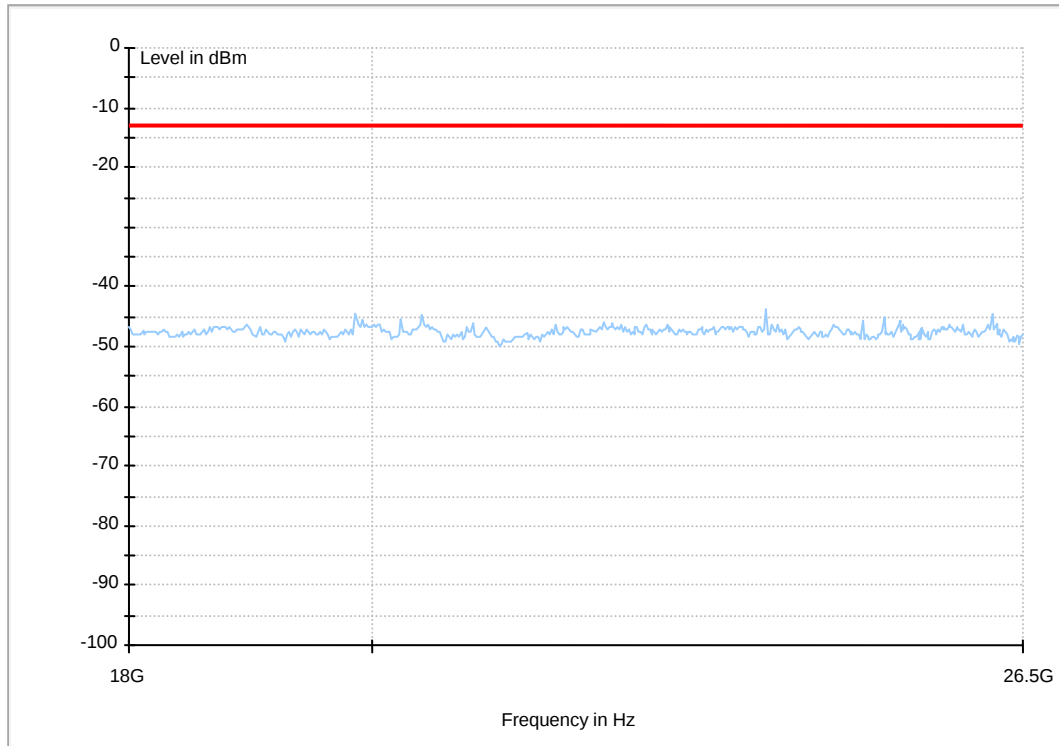


(3GHz~18GHz)





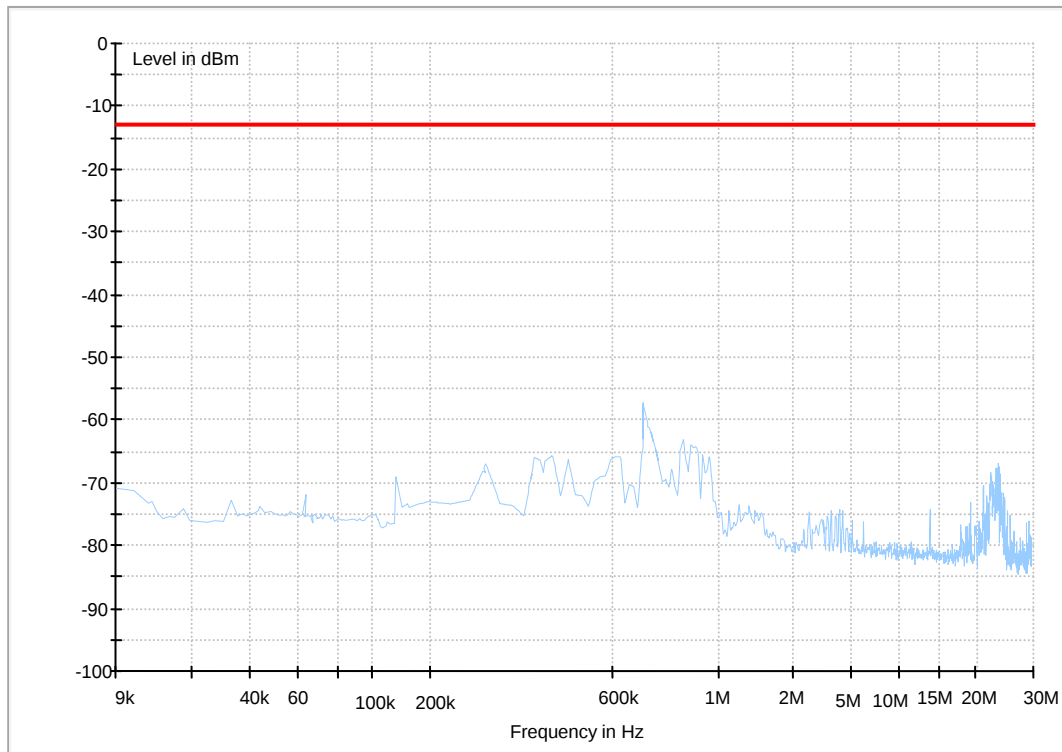
(18GHz~26.5GHz)





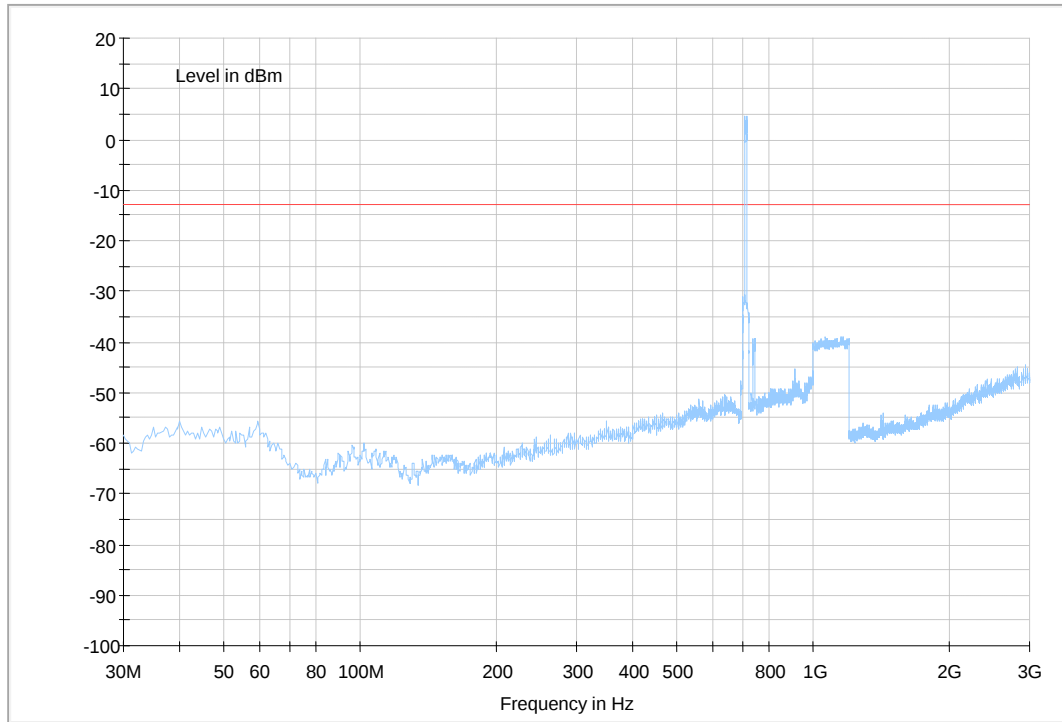
LTE-Band17-10MHz

(9kHz~30MHz)



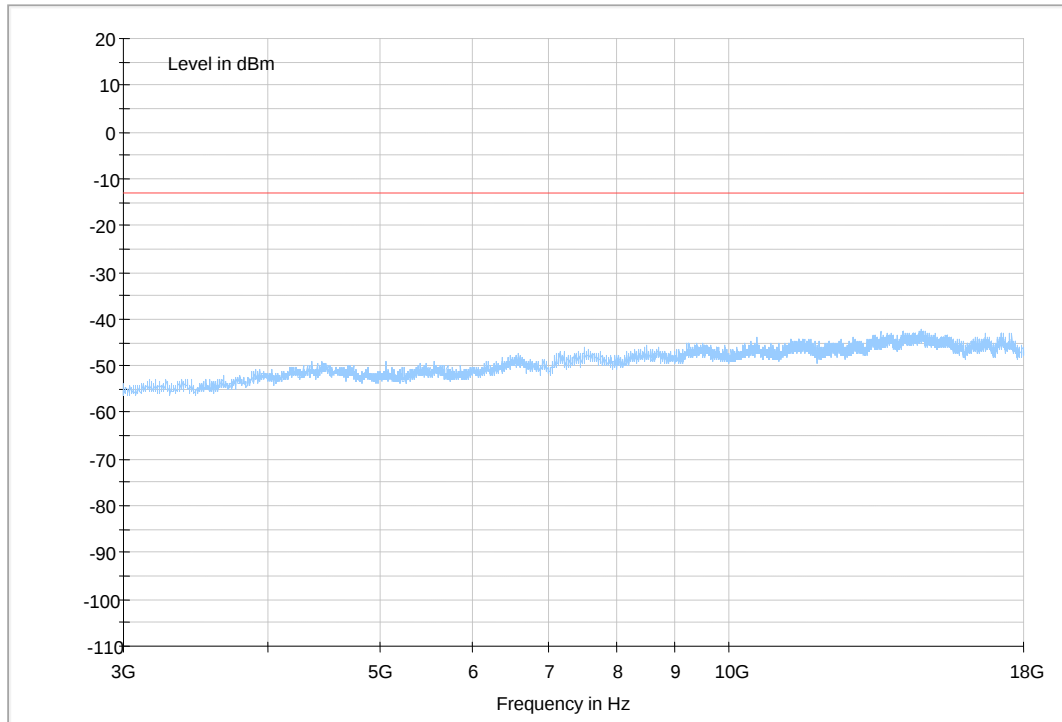


(30MHz~3GHz)



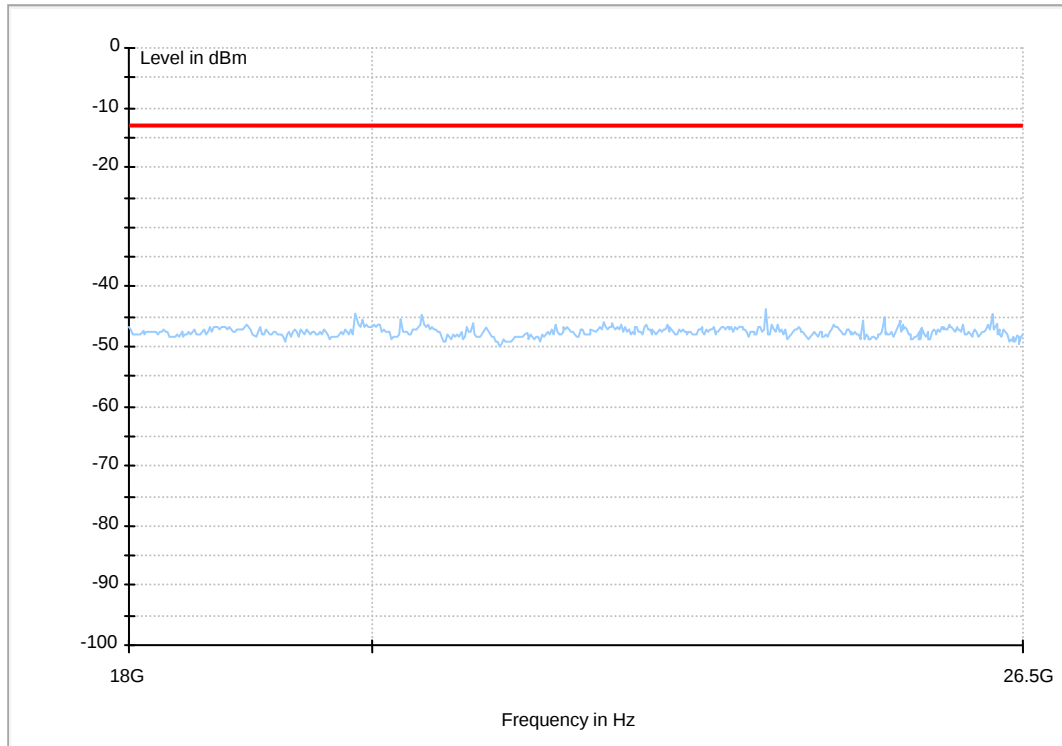


(3GHz~18GHz)





(18GHz~26.5GHz)



-----END-----



Appendix G

Frequency Stability

According to FCC Part 2.1055 & Part 27.54



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
TM1(5M)	M	VN	-30 °C	-10	-0.01408	---	±2.5	Pass
			-20 °C	27	0.03803	---	±2.5	Pass
			-10 °C	-12	-0.01690	---	±2.5	Pass
			0 °C	-10	-0.01408	---	±2.5	Pass
			10 °C	18	0.02535	---	±2.5	Pass
			20 °C	-19	-0.02676	---	±2.5	Pass
			30 °C	13	0.01831	---	±2.5	Pass
			40 °C	11	0.01549	---	±2.5	Pass
TM1(10 M)	M	VN	50 °C	16	0.02254	---	±2.5	Pass
			-30 °C	-15	-0.02113	---	±2.5	Pass
			-20 °C	21	0.02958	---	±2.5	Pass
			-10 °C	-24	-0.03380	---	±2.5	Pass
			0 °C	-20	-0.02817	---	±2.5	Pass
			10 °C	-14	-0.01972	---	±2.5	Pass
			20 °C	-15	-0.02113	---	±2.5	Pass
			30 °C	-8	-0.01127	---	±2.5	Pass
TM2(5M)	M	VN	40 °C	-19	-0.02676	---	±2.5	Pass
			50 °C	7	0.00986	---	±2.5	Pass
			-30 °C	-6	-0.00319	---	±2.5	Pass
			-20 °C	-5	-0.00266	---	±2.5	Pass
			-10 °C	12	0.00638	---	±2.5	Pass
			0 °C	12	0.00638	---	±2.5	Pass
			10 °C	-11	-0.00585	---	±2.5	Pass
			20 °C	14	0.00745	---	±2.5	Pass
TM2(10 M)	M	VN	30 °C	-5	-0.00266	---	±2.5	Pass
			40 °C	13	0.00691	---	±2.5	Pass
			50 °C	6	0.00319	---	±2.5	Pass
			-30 °C	12	0.00638	---	±2.5	Pass
			-20 °C	-6	-0.00319	---	±2.5	Pass
			-10 °C	-16	-0.00851	---	±2.5	Pass
			0 °C	12	0.00638	---	±2.5	Pass
			10 °C	11	0.00585	---	±2.5	Pass
			20 °C	15	0.00798	---	±2.5	Pass
			30 °C	12	0.00638	---	±2.5	Pass
			40 °C	-9	-0.00479	---	±2.5	Pass
			50 °C	11	0.00585	---	±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
TM1(5M)	M	20 °C	VL	14	0.01972	---	±2.5	Pass
			VN	16	0.02254	---	±2.5	Pass
			VH	-24	-0.03380	---	±2.5	Pass
TM1(10 M)	M	20 °C	VL	-10	-0.01408	---	±2.5	Pass
			VN	12	0.01690	---	±2.5	Pass
			VH	-17	-0.02394	---	±2.5	Pass
TM2(5M)	M	20 °C	VL	13	0.00691	---	±2.5	Pass
			VN	9	0.00479	---	±2.5	Pass
			VH	12	0.00638	---	±2.5	Pass
TM2(10 M)	M	20 °C	VL	-7	-0.00372	---	±2.5	Pass
			VN	-12	-0.00638	---	±2.5	Pass
			VH	15	0.00798	---	±2.5	Pass

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