Appendix A

Transmitter Output Power

According to FCC Part 2.1046 & Part 27 Subpart C&L

Conducted Power of Transmitter

TEST CONDITIONS		RF Output Power (Conducted)					
		Channel 1312(B)		Channel 1412(M)		Channel 1513(T)	
		1712.4MHz		1732.4MHz		1752.6MHz	
		dBm		dBm		dBm	
T_{nom} / V_{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM1		22.01	30	21.96	30	21.95	30
TM2	Case1	21.81	30	21.86	30	21.71	30
	Case2	21.21	30	21.61	30	21.13	30
	Case3	20.74	30	21.04	30	20.89	30
	Case4	19.92	30	20.14	30	20.05	30
TM3	Case1	20.98	30	21.13	30	20.92	30
	Case2	18.17	30	18.14	30	18.14	30
	Case3	20.07	30	20.03	30	20.01	30
	Case4	18.01	30	18.05	30	17.96	30
	Case5	20.96	30	21.11	30	20.94	30

Table 1 Measurement Results (LTE) BAND 4

TM4 & TM5 RF Output Power(Conducted) BAND 4				
Test Mode	TN/VN			
	Modulation	RB	Measured (dBm)	Limit (dBm)
Channel (B) 5MHz(BW)	QPSK	1RB#0	22.67	30.0
		1RB#max	22.79	30.0
		12RB#6	22.56	30.0
		Full	22.44	30.0
	16QAM	1RB#0	22.49	30.0
		1RB#max	22.62	30.0
		12RB#6	21.74	30.0
		Full	21.61	30.0
Channel (B) 10MHz(BW)	QPSK	1RB#0	22.46	30.0
		1RB#max	22.81	30.0
		25RB#13	22.49	30.0
		Full	22.38	30.0
	16QAM	1RB#0	22.63	30.0
		1RB#max	22.93	30.0
		25RB#13	21.78	30.0
		Full	21.53	30.0
Channel (B) 15MHz(BW)	QPSK	1RB#0	22.70	30.0
		1RB#max	22.92	30.0
		36RB#18	22.40	30.0
		Full	22.27	30.0
	16QAM	1RB#0	22.69	30.0
		1RB#max	22.92	30.0
		36RB#18	21.57	30.0
		Full	21.41	30.0
Channel (B) 20MHz(BW)	QPSK	1RB#0	22.73	30.0
		1RB#max	22.90	30.0
		50RB#25	22.33	30.0
		Full	22.29	30.0
	16QAM	1RB#0	22.74	30.0
		1RB#max	22.94	30.0
		50RB#25	21.50	30.0
		Full	21.45	30.0

Channel (M) 5MHz(BW)	QPSK	1RB#0	22.71	30.0
		1RB#max	22.66	30.0
		12RB#6	22.31	30.0
		Full	22.10	30.0
	16QAM	1RB#0	22.60	30.0
		1RB#max	22.55	30.0
		12RB#6	21.67	30.0
		Full	21.47	30.0
Channel (M) 10MHz(BW)	QPSK	1RB#0	22.42	30.0
		1RB#max	22.59	30.0
		25RB#13	22.01	30.0
		Full	21.80	30.0
	16QAM	1RB#0	22.53	30.0
		1RB#max	22.71	30.0
		25RB#13	21.50	30.0
		Full	21.28	30.0
Channel (M) 15MHz(BW)	QPSK	1RB#0	22.48	30.0
		1RB#max	22.64	30.0
		36RB#18	22.07	30.0
		Full	22.00	30.0
	16QAM	1RB#0	22.75	30.0
		1RB#max	22.95	30.0
		36RB#18	21.49	30.0
		Full	21.37	30.0
Channel (M) 20MHz(BW)	QPSK	1RB#0	22.64	30.0
		1RB#max	22.72	30.0
		50RB#25	21.98	30.0
		Full	21.91	30.0
	16QAM	1RB#0	22.64	30.0
		1RB#max	22.72	30.0
		50RB#25	21.35	30.0
		Full	21.29	30.0
Channel (T) 5MHz(BW)	QPSK	1RB#0	22.32	30.0
		1RB#max	22.11	30.0
		12RB#6	22.07	30.0
		Full	21.95	30.0
	16QAM	1RB#0	22.16	30.0
		1RB#max	21.92	30.0

		12RB#6	21.45	30.0
		Full	21.33	30.0
Channel (T) 10MHz(BW)	QPSK	1RB#0	22.38	30.0
		1RB#max	22.31	30.0
		25RB#13	21.98	30.0
		Full	21.77	30.0
	16QAM	1RB#0	22.48	30.0
		1RB#max	22.43	30.0
		25RB#13	21.37	30.0
		Full	21.13	30.0
Channel (T) 15MHz(BW)	QPSK	1RB#0	22.48	30.0
		1RB#max	22.31	30.0
		36RB#18	22.01	30.0
		Full	21.96	30.0
	16QAM	1RB#0	22.54	30.0
		1RB#max	22.38	30.0
		36RB#18	21.41	30.0
		Full	21.32	30.0
Channel (T) 20MHz(BW)	QPSK	1RB#0	22.53	30.0
		1RB#max	22.34	30.0
		50RB#25	22.09	30.0
		Full	21.96	30.0
	16QAM	1RB#0	22.58	30.0
		1RB#max	22.38	30.0
		50RB#25	21.47	30.0
		Full	21.31	30.0

Peak-to-Average Ratio

TEST CONDITIONS		Peak-to-Average Ratio					
		Channel 1312(B)		Channel 1412(M)		Channel 1513(T)	
		1712.4MHz		1732.4MHz		1752.6MHz	
		dB		dB		dB	
T_{nom} / V_{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM1		3.23	13	3.25	13	3.24	13
TM2	Case1	3.19	13	3.21	13	3.22	13
	Case2	3.06	13	3.08	13	3.03	13
	Case3	3.11	13	3.15	13	3.09	13
	Case4	3.01	13	2.99	13	3.13	13
TM3	Case1	3.16	13	3.12	13	2.95	13
	Case2	3.15	13	3.04	13	3.17	13
	Case3	3.07	13	2.97	13	3.05	13
	Case4	2.96	13	3.18	13	2.98	13
	Case5	3.14	13	3.02	13	3.11	13

Table 2 Measurement Results (LTE) BAND 4

Peak-to-Average Ratio				
Test Mode	TN/VN			
	Modulation	RB	Measured (dB)	Limit (dB)
Channel (B) 5MHz(BW)	QPSK	1RB#0	5.58	13
		1RB#max	5.61	13
		12RB#6	5.59	13
		Full	5.63	13
	16QAM	1RB#0	6.43	13
		1RB#max	6.41	13
		12RB#6	6.40	13
		Full	6.48	13
Channel (B) 10MHz(BW)	QPSK	1RB#0	5.40	13
		1RB#max	5.39	13
		25RB#13	5.38	13
		Full	5.41	13
	16QAM	1RB#0	6.30	13
		1RB#max	6.28	13
		25RB#13	6.29	13
		Full	6.32	13
Channel (B) 15MHz(BW)	QPSK	1RB#0	5.80	13
		1RB#max	5.82	13
		36RB#18	5.81	13
		Full	5.86	13
	16QAM	1RB#0	6.26	13
		1RB#max	6.26	13
		36RB#18	6.29	13
		Full	6.30	13
Channel (B) 20MHz(BW)	QPSK	1RB#0	5.58	13
		1RB#max	5.57	13
		50RB#25	5.60	13
		Full	5.62	13
	16QAM	1RB#0	6.33	13
		1RB#max	6.30	13
		50RB#25	6.33	13

		Full	6.35	13
Channel (M) 5MHz(BW)	QPSK	1RB#0	5.60	13
		1RB#max	5.62	13
		12RB#6	5.65	13
		Full	5.66	13
	16QAM	1RB#0	6.48	13
		1RB#max	6.45	13
		12RB#6	6.42	13
		Full	6.50	13
Channel (M) 10MHz(BW)	QPSK	1RB#0	5.40	13
		1RB#max	5.43	13
		25RB#13	5.38	13
		Full	5.42	13
	16QAM	1RB#0	6.30	13
		1RB#max	6.28	13
		25RB#13	6.27	13
		Full	6.32	13
Channel (M) 15MHz(BW)	QPSK	1RB#0	5.85	13
		1RB#max	5.83	13
		36RB#18	5.76	13
		Full	5.87	13
	16QAM	1RB#0	6.31	13
		1RB#max	6.26	13
		36RB#18	6.27	13
		Full	6.32	13
Channel (M) 20MHz(BW)	QPSK	1RB#0	5.58	13
		1RB#max	5.54	13
		50RB#25	5.59	13
		Full	5.64	13
	16QAM	1RB#0	6.31	13
		1RB#max	6.30	13
		50RB#25	6.33	13
		Full	6.35	13
Channel (T) 5MHz(BW)	QPSK	1RB#0	5.59	13
		1RB#max	5.59	13
		12RB#6	5.58	13
		Full	5.61	13
		1RB#0	6.39	13

	16QAM	1RB#max	6.44	13
		12RB#6	6.38	13
		Full	6.45	13
Channel (T) 10MHz(BW)	QPSK	1RB#0	5.38	13
		1RB#max	5.39	13
		25RB#13	5.37	13
		Full	5.40	13
	16QAM	1RB#0	6.31	13
		1RB#max	6.33	13
		25RB#13	6.28	13
		Full	6.33	13
Channel (T) 15MHz(BW)	QPSK	1RB#0	5.78	13
		1RB#max	5.80	13
		36RB#18	5.75	13
		Full	5.84	13
	16QAM	1RB#0	6.27	13
		1RB#max	6.25	13
		36RB#18	6.24	13
		Full	6.28	13
Channel (T) 20MHz(BW)	QPSK	1RB#0	5.60	13
		1RB#max	5.54	13
		50RB#25	5.58	13
		Full	5.61	13
	16QAM	1RB#0	6.28	13
		1RB#max	6.30	13
		50RB#25	6.29	13
		Full	6.32	13

Effective Isotropic Radiated Power of Transmitter (EIRP)

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBi]	Cable Loss [dB]	Substitution Level (EIRP) [dBm]	Limit [dBm]	Result
TM1	1712.4	25.11	Horn Ant.	21.64	4.5	1.0	25.14	30	Pass
TM1	1732.4	25.06	Horn Ant.	21.58	4.5	1.0	25.08	30	Pass
TM1	1752.6	25.05	Horn Ant.	21.27	4.8	1.0	25.07	30	Pass

Table 3 Substitution Results (LTE) BAND 4

Test Mode			Meas. Level [dBm]	Substitution Antenna Type	SGP[dBm]	Substitution Gain [dBi]	Cable Loss [dB]	Substitution Level (EIRP) [dBm]	FCC limit [dBm]	Result
Channel	Modulation	RB								
Channel (B) 5MHz(BW)	QPSK	1 RB/#0	25.77	Horn Ant.	22.29	4.5	1	25.79	30	Pass
		1 RB/#max	25.89	Horn Ant.	22.41	4.5	1	25.91	30	Pass
		12 RB/#6	25.66	Horn Ant.	22.18	4.5	1	25.68	30	Pass
		Full	25.54	Horn Ant.	22.06	4.5	1	25.56	30	Pass
	16QAM	1 RB/#0	25.59	Horn Ant.	22.11	4.5	1	25.61	30	Pass
		1 RB/#max	25.72	Horn Ant.	22.24	4.5	1	25.74	30	Pass
		12 RB/#6	24.84	Horn Ant.	21.36	4.5	1	24.86	30	Pass
		Full	24.71	Horn Ant.	21.23	4.5	1	24.73	30	Pass
Channel (B) 10MHz(BW)	QPSK	1 RB/#0	25.56	Horn Ant.	22.08	4.5	1	25.58	30	Pass
		1 RB/#max	25.91	Horn Ant.	22.43	4.5	1	25.93	30	Pass
		25 RB/#13	25.59	Horn Ant.	22.11	4.5	1	25.61	30	Pass
		Full	25.48	Horn Ant.	22.00	4.5	1	25.50	30	Pass
	16QAM	1 RB/#0	25.73	Horn Ant.	22.25	4.5	1	25.75	30	Pass
		1 RB/#max	26.03	Horn Ant.	22.55	4.5	1	26.05	30	Pass
		25 RB/#13	24.88	Horn Ant.	21.40	4.5	1	24.90	30	Pass

		Full	24.63	Horn Ant.	21.15	4.5	1	24.65	30	Pass
Channel (B) 15MHz(BW)	QPSK	1 RB/#0	25.80	Horn Ant.	22.32	4.5	1	25.82	30	Pass
		1 RB/#max	26.02	Horn Ant.	22.54	4.5	1	26.04	30	Pass
		36 RB/#18	25.50	Horn Ant.	22.02	4.5	1	25.52	30	Pass
		Full	25.37	Horn Ant.	21.89	4.5	1	25.39	30	Pass
	16QAM	1 RB/#0	25.79	Horn Ant.	22.31	4.5	1	25.81	30	Pass
		1 RB/#max	26.02	Horn Ant.	22.54	4.5	1	26.04	30	Pass
		36 RB/#18	24.67	Horn Ant.	21.19	4.5	1	24.69	30	Pass
		Full	24.51	Horn Ant.	21.03	4.5	1	24.53	30	Pass
Channel (B) 20MHz(BW)	QPSK	1 RB/#0	25.83	Horn Ant.	22.35	4.5	1	25.85	30	Pass
		1 RB/#max	26.00	Horn Ant.	22.52	4.5	1	26.02	30	Pass
		50 RB/#25	25.43	Horn Ant.	21.95	4.5	1	25.45	30	Pass
		Full	25.39	Horn Ant.	21.91	4.5	1	25.41	30	Pass
	16QAM	1 RB/#0	25.84	Horn Ant.	22.36	4.5	1	25.86	30	Pass
		1 RB/#max	26.04	Horn Ant.	22.56	4.5	1	26.06	30	Pass
		50 RB/#25	24.60	Horn Ant.	21.12	4.5	1	24.62	30	Pass
		Full	24.55	Horn Ant.	21.07	4.5	1	24.57	30	Pass
Channel (M) 5MHz(BW)	QPSK	1 RB/#0	25.81	Horn Ant.	22.33	4.5	1	25.83	30	Pass
		1 RB/#max	25.76	Horn Ant.	22.28	4.5	1	25.78	30	Pass

		12 RB/#6	25.41	Horn Ant.	21.93	4.5	1	25.43	30	Pass
		Full	25.20	Horn Ant.	21.72	4.5	1	25.22	30	Pass
	16QAM	1 RB/#0	25.70	Horn Ant.	22.22	4.5	1	25.72	30	Pass
		1 RB/#max	25.65	Horn Ant.	22.17	4.5	1	25.67	30	Pass
		12 RB/#6	24.77	Horn Ant.	21.29	4.5	1	24.79	30	Pass
		Full	24.57	Horn Ant.	21.09	4.5	1	24.59	30	Pass
Channel (M) 10MHz(BW)	QPSK	1 RB/#0	25.52	Horn Ant.	22.04	4.5	1	25.54	30	Pass
		1 RB/#max	25.69	Horn Ant.	22.21	4.5	1	25.71	30	Pass
		25 RB/#13	25.11	Horn Ant.	21.63	4.5	1	25.13	30	Pass
		Full	24.90	Horn Ant.	21.42	4.5	1	24.92	30	Pass
	16QAM	1 RB/#0	25.63	Horn Ant.	22.15	4.5	1	25.65	30	Pass
		1 RB/#max	25.81	Horn Ant.	22.33	4.5	1	25.83	30	Pass
		25 RB/#13	24.60	Horn Ant.	21.12	4.5	1	24.62	30	Pass
		Full	24.38	Horn Ant.	20.90	4.5	1	24.40	30	Pass
Channel (M) 15MHz(BW)	QPSK	1 RB/#0	25.58	Horn Ant.	22.10	4.5	1	25.60	30	Pass
		1 RB/#max	25.74	Horn Ant.	22.26	4.5	1	25.76	30	Pass
		36 RB/#18	25.17	Horn Ant.	21.69	4.5	1	25.19	30	Pass
		Full	25.10	Horn Ant.	21.62	4.5	1	25.12	30	Pass
	16QAM	1 RB/#0	25.85	Horn Ant.	22.37	4.5	1	25.87	30	Pass

		1 RB/#max	26.05	Horn Ant.	22.57	4.5	1	26.07	30	Pass
		36 RB/#18	24.59	Horn Ant.	21.11	4.5	1	24.61	30	Pass
		Full	24.47	Horn Ant.	20.99	4.5	1	24.49	30	Pass
Channel (M) 20MHz(BW)	QPSK	1 RB/#0	25.74	Horn Ant.	22.26	4.5	1	25.76	30	Pass
		1 RB/#max	25.82	Horn Ant.	22.34	4.5	1	25.84	30	Pass
		50 RB/#25	25.08	Horn Ant.	21.60	4.5	1	25.10	30	Pass
		Full	25.01	Horn Ant.	21.53	4.5	1	25.03	30	Pass
	16QAM	1 RB/#0	25.74	Horn Ant.	22.26	4.5	1	25.76	30	Pass
		1 RB/#max	25.82	Horn Ant.	22.34	4.5	1	25.84	30	Pass
		50 RB/#25	24.45	Horn Ant.	20.97	4.5	1	24.47	30	Pass
		Full	24.39	Horn Ant.	20.91	4.5	1	24.41	30	Pass
Channel (T) 5MHz(BW)	QPSK	1 RB/#0	25.42	Horn Ant.	21.64	4.8	1	25.44	30	Pass
		1 RB/#max	25.21	Horn Ant.	21.43	4.8	1	25.23	30	Pass
		12 RB/#6	25.17	Horn Ant.	21.39	4.8	1	25.19	30	Pass
		Full	25.05	Horn Ant.	21.27	4.8	1	25.07	30	Pass
	16QAM	1 RB/#0	25.26	Horn Ant.	21.48	4.8	1	25.28	30	Pass
		1 RB/#max	25.02	Horn Ant.	21.24	4.8	1	25.04	30	Pass
		12 RB/#6	24.55	Horn Ant.	20.77	4.8	1	24.57	30	Pass
		Full	24.43	Horn Ant.	20.65	4.8	1	24.45	30	Pass

Channel (T) 10MHz(BW)	QPSK	1 RB/#0	25.48	Horn Ant.	21.70	4.8	1	25.50	30	Pass
		1 RB/#max	25.41	Horn Ant.	21.63	4.8	1	25.43	30	Pass
		25 RB/#13	25.08	Horn Ant.	21.30	4.8	1	25.10	30	Pass
		Full	24.87	Horn Ant.	21.09	4.8	1	24.89	30	Pass
	16QAM	1 RB/#0	25.58	Horn Ant.	21.80	4.8	1	25.6	30	Pass
		1 RB/#max	25.53	Horn Ant.	21.75	4.8	1	25.55	30	Pass
		25 RB/#13	24.47	Horn Ant.	20.69	4.8	1	24.49	30	Pass
		Full	24.23	Horn Ant.	20.44	4.8	1	24.24	30	Pass
Channel (T) 15MHz(BW)	QPSK	1 RB/#0	25.58	Horn Ant.	21.79	4.8	1	25.59	30	Pass
		1 RB/#max	25.41	Horn Ant.	21.62	4.8	1	25.42	30	Pass
		36 RB/#18	25.11	Horn Ant.	21.32	4.8	1	25.12	30	Pass
		Full	25.06	Horn Ant.	21.27	4.8	1	25.07	30	Pass
	16QAM	1 RB/#0	25.64	Horn Ant.	21.85	4.8	1	25.65	30	Pass
		1 RB/#max	25.48	Horn Ant.	21.69	4.8	1	25.49	30	Pass
		36 RB/#18	24.51	Horn Ant.	20.72	4.8	1	24.52	30	Pass
		Full	24.42	Horn Ant.	20.63	4.8	1	24.43	30	Pass
Channel (T) 20MHz(BW)	QPSK	1 RB/#0	25.63	Horn Ant.	21.84	4.8	1	25.64	30	Pass
		1 RB/#max	25.44	Horn Ant.	21.65	4.8	1	25.45	30	Pass
		50 RB/#25	25.19	Horn Ant.	21.40	4.8	1	25.20	30	Pass

		Full	25.06	Horn Ant.	21.27	4.8	1	25.07	30	Pass
	16QAM	1 RB/#0	25.68	Horn Ant.	21.89	4.8	1	25.69	30	Pass
		1 RB/#max	25.48	Horn Ant.	21.69	4.8	1	25.49	30	Pass
		50 RB/#25	24.57	Horn Ant.	20.78	4.8	1	24.58	30	Pass
		Full	24.41	Horn Ant.	20.62	4.8	1	24.42	30	Pass

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

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]

b, SGP=Signal Generator Level

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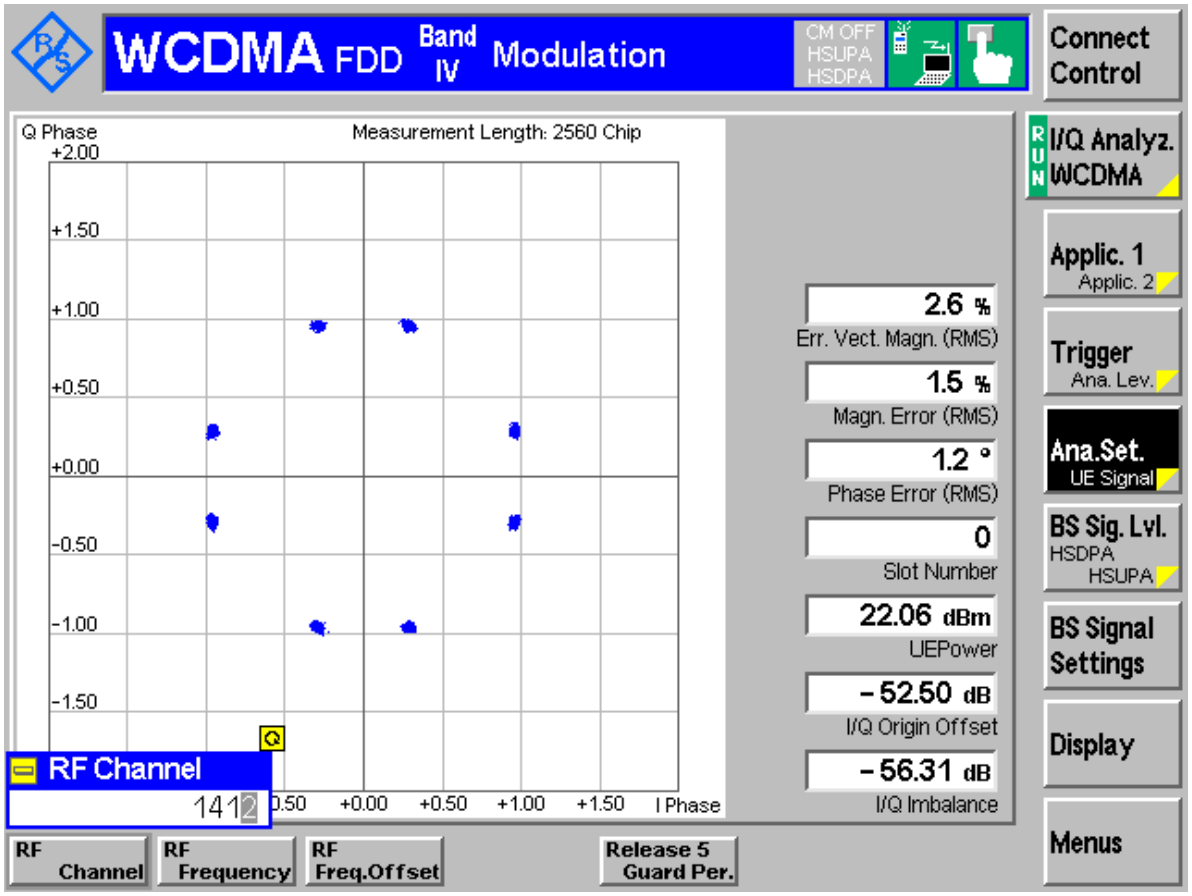
Appendix B

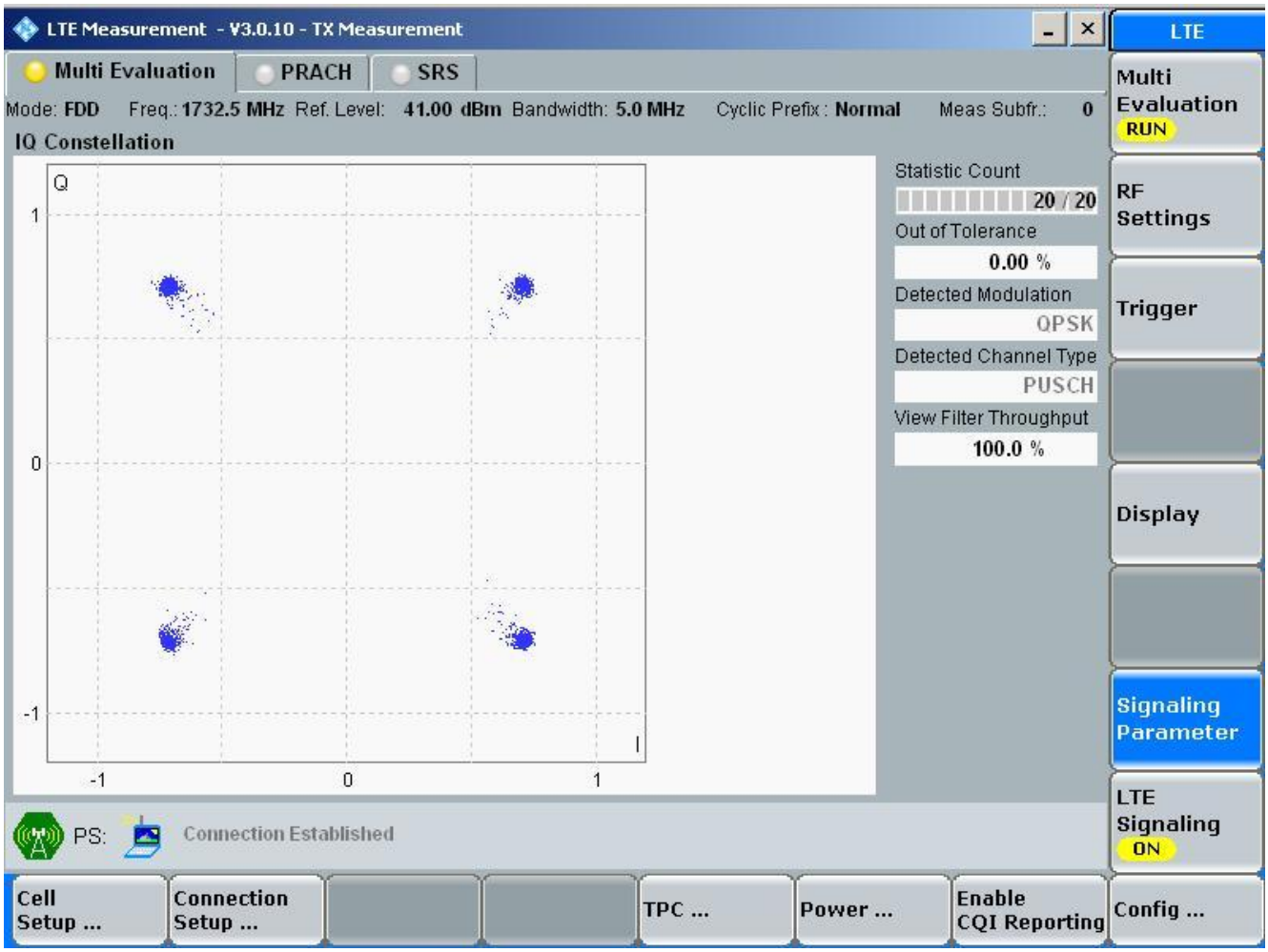
Modulation Characteristics

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

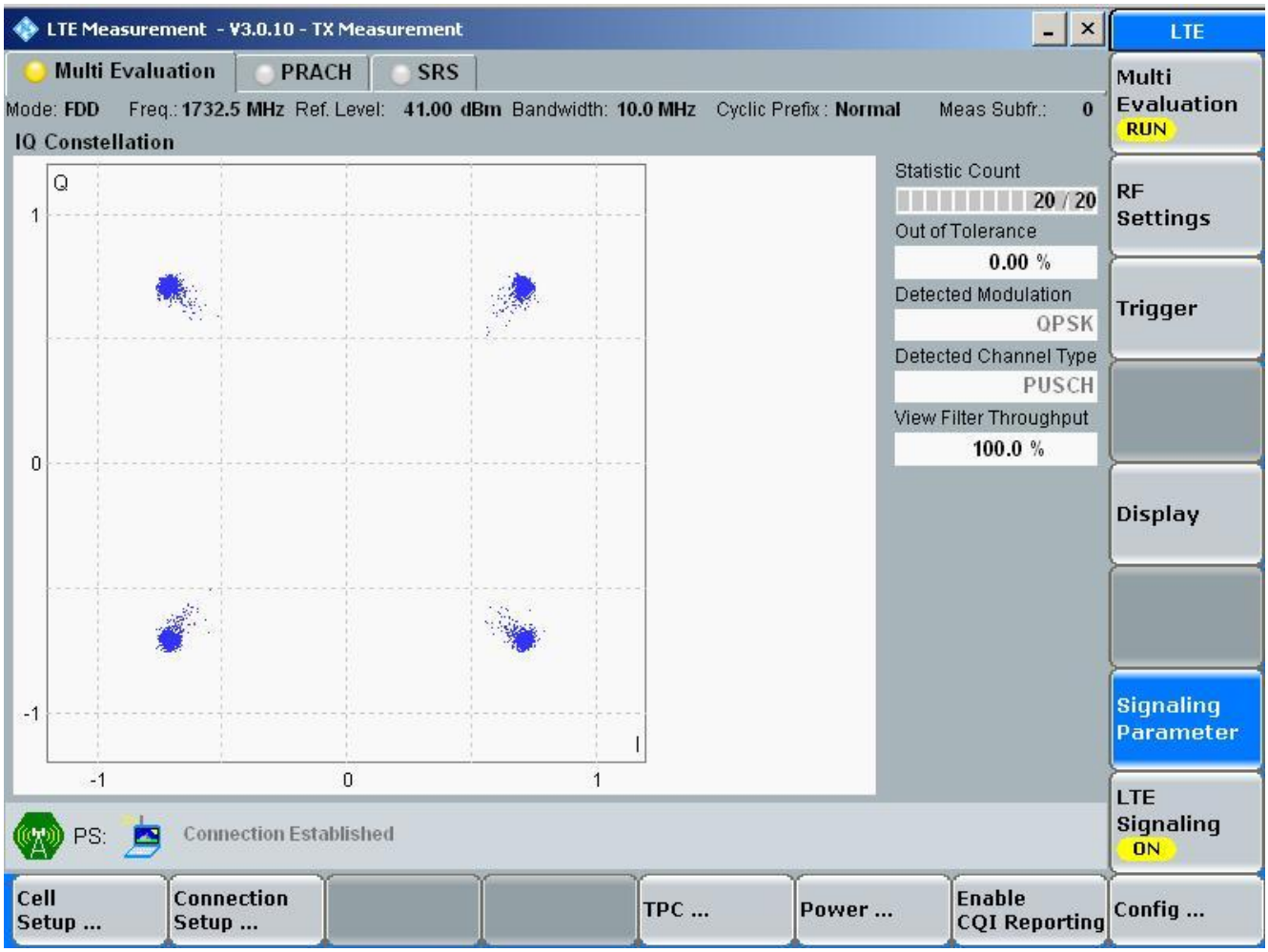
TM1: WCDMA
Channel 1412



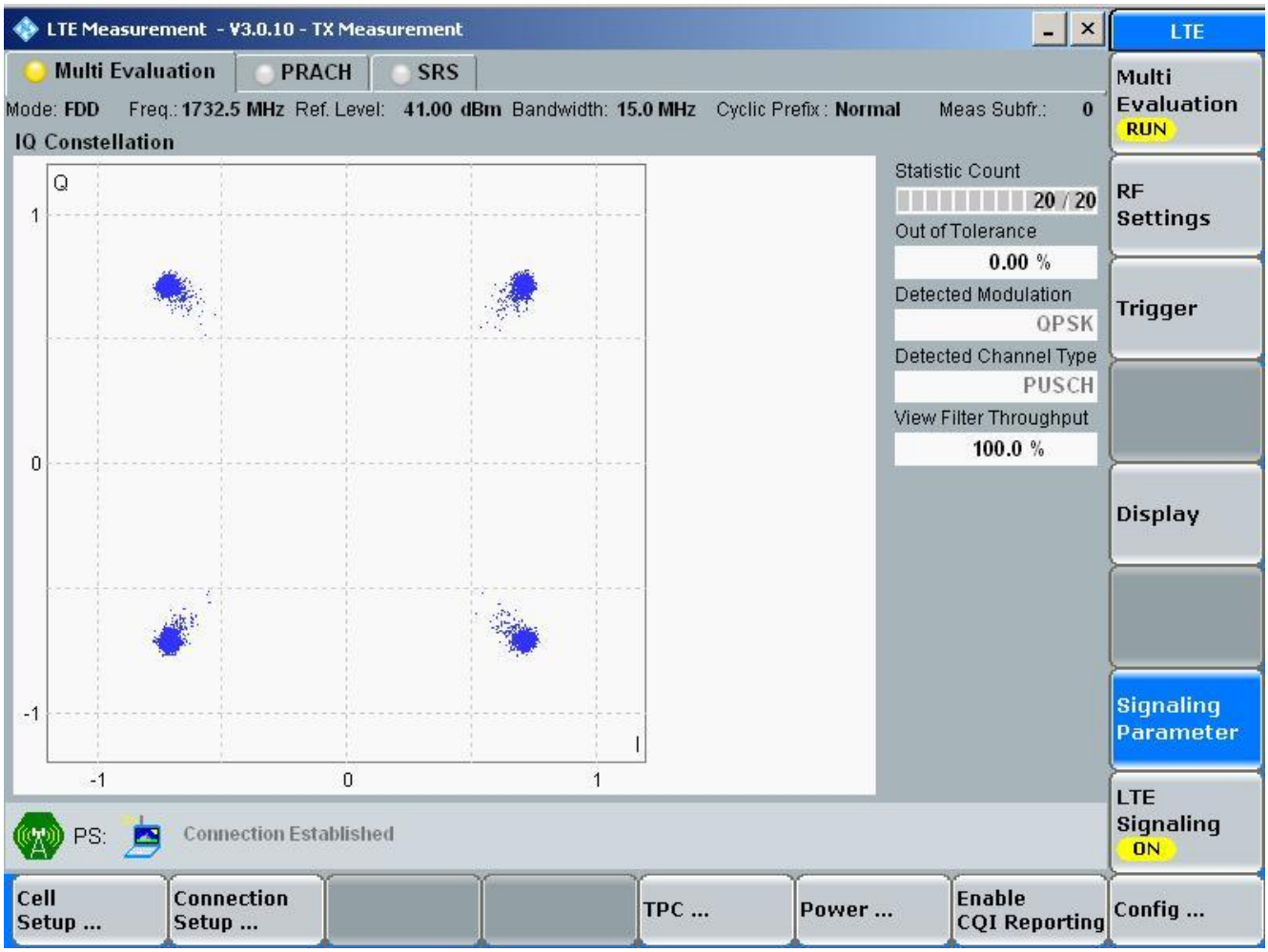
Test Mode = TM4
Channel Bandwidth = Lowest (5 MHz)
Channel = M
QPSK/full RBs



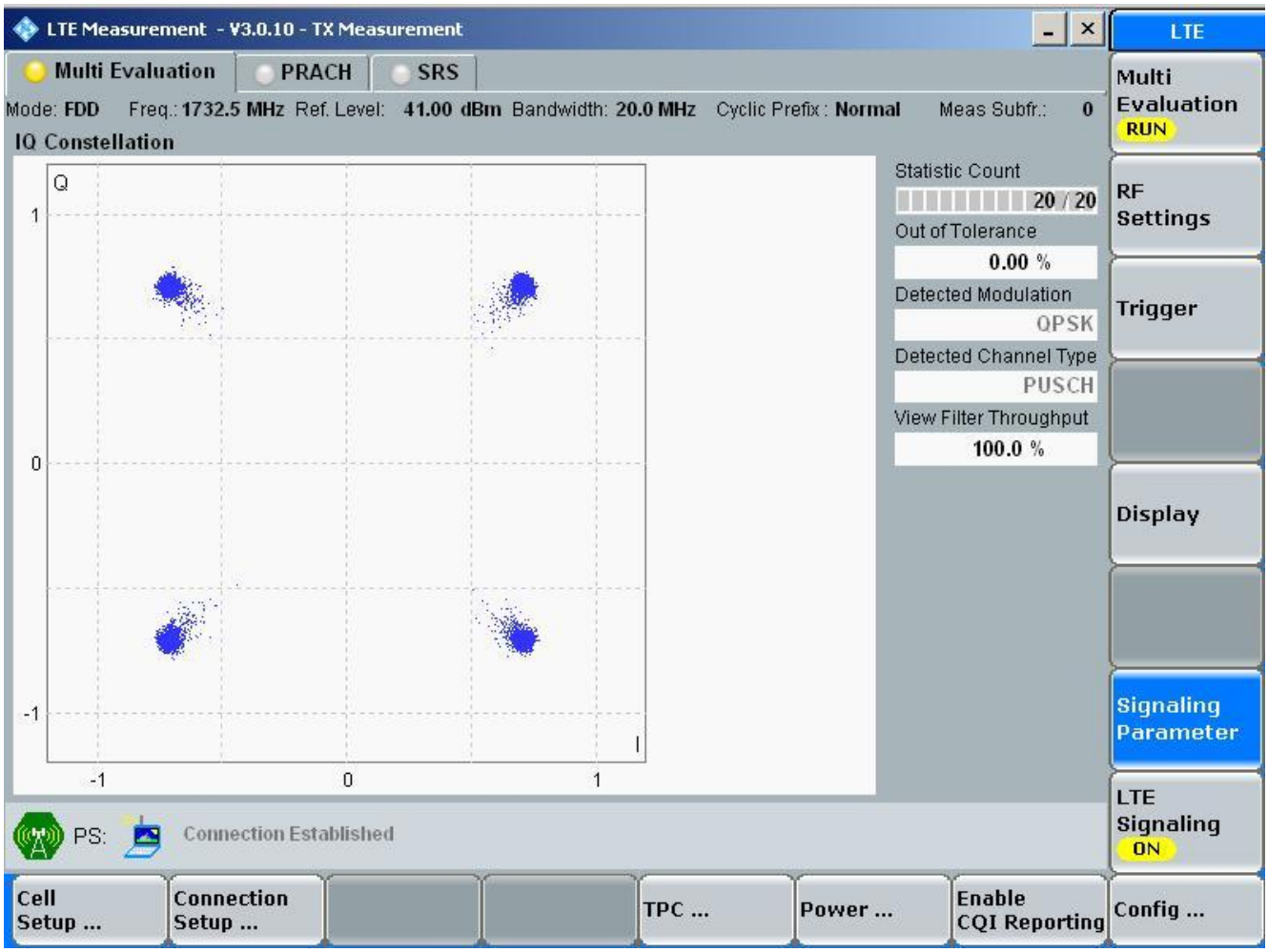
Channel Bandwidth = 10 MHz
Channel = M
QPSK/full RBs



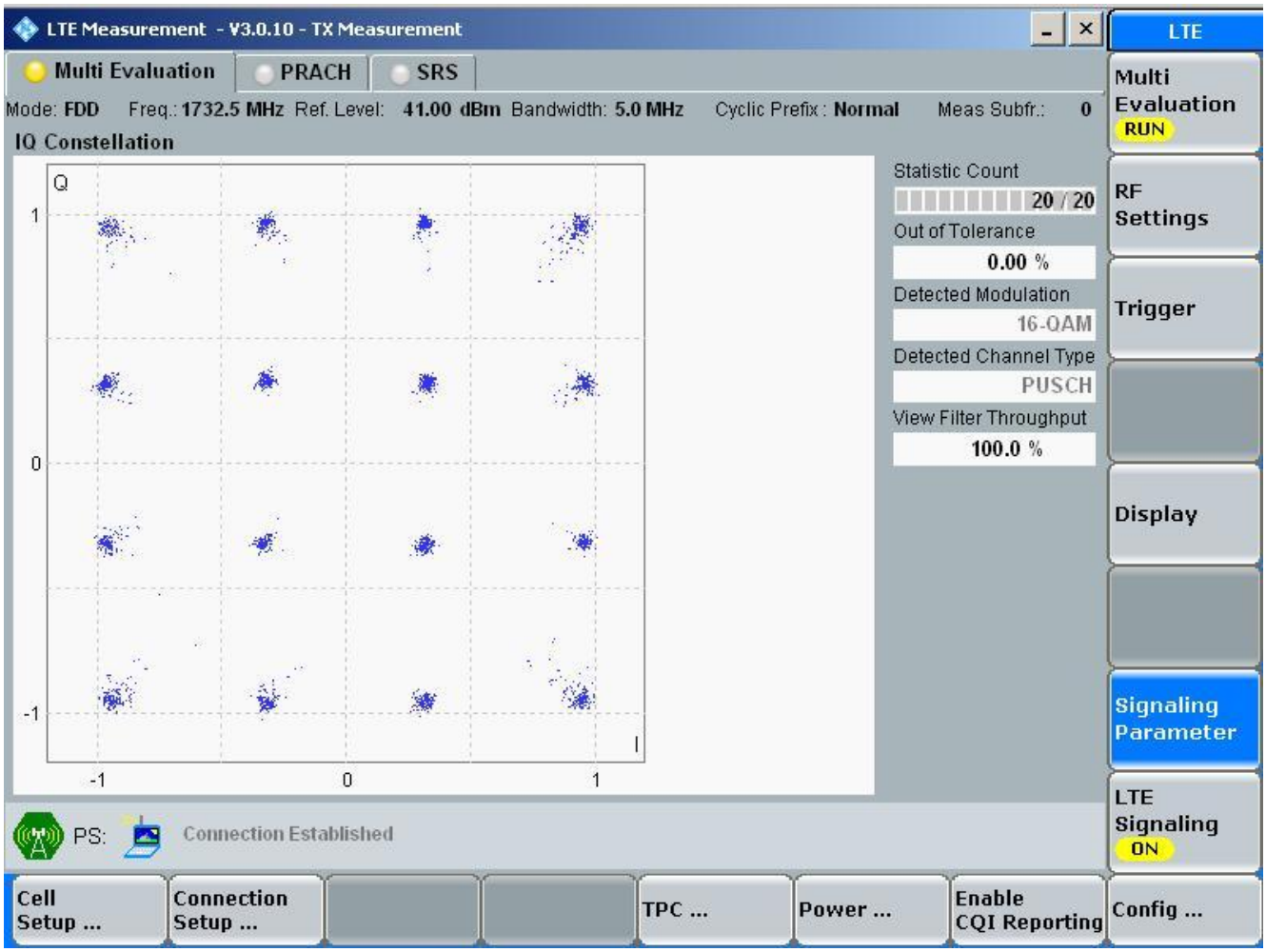
Channel Bandwidth = 15 MHz
Channel = M
QPSK/full RBs



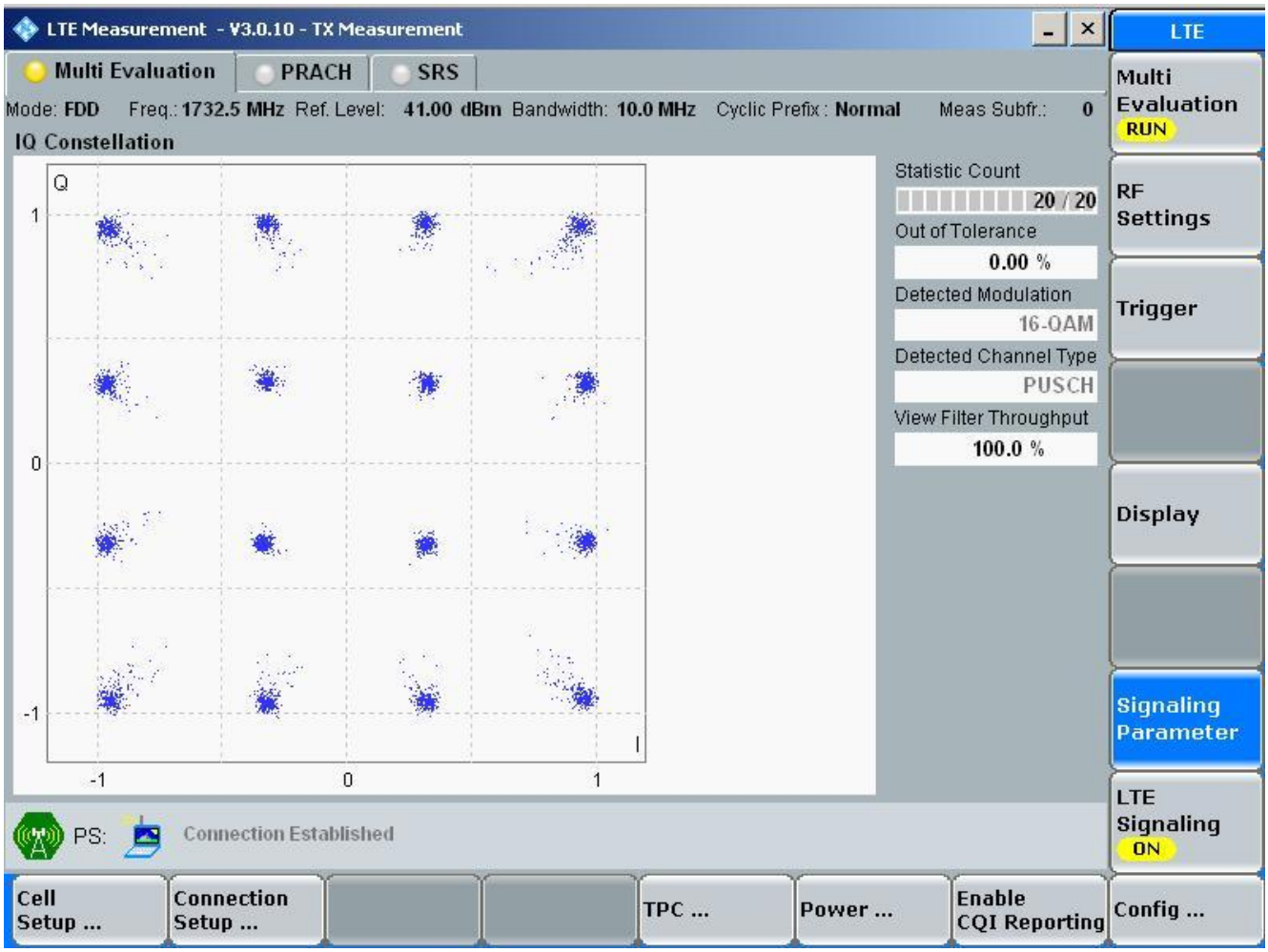
Channel Bandwidth = Highest (20 MHz)
Channel = M
QPSK/full RBs



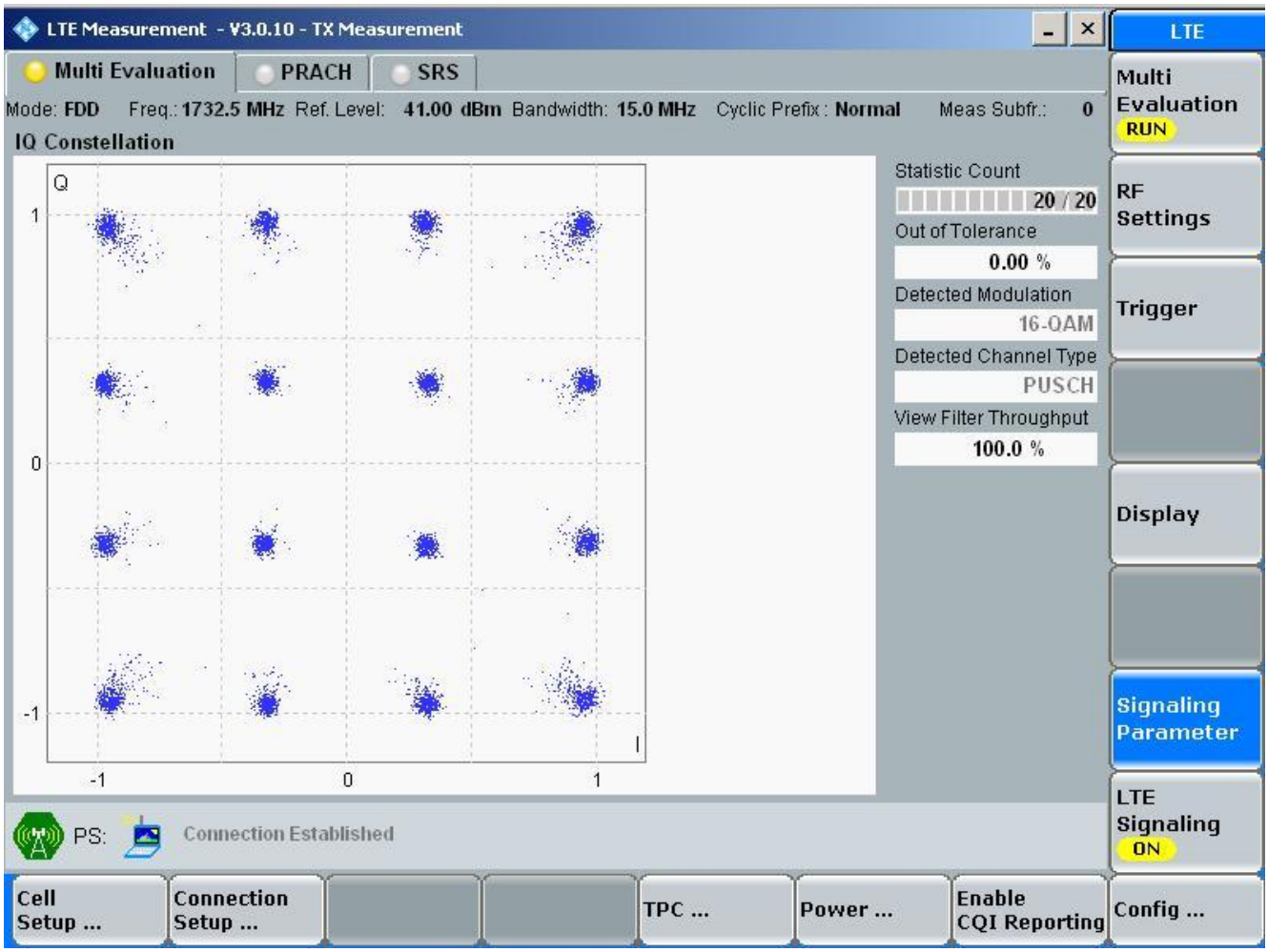
Test Mode = TM5
Channel Bandwidth = Lowest (5 MHz)
Channel = M
16QAM/full RBs



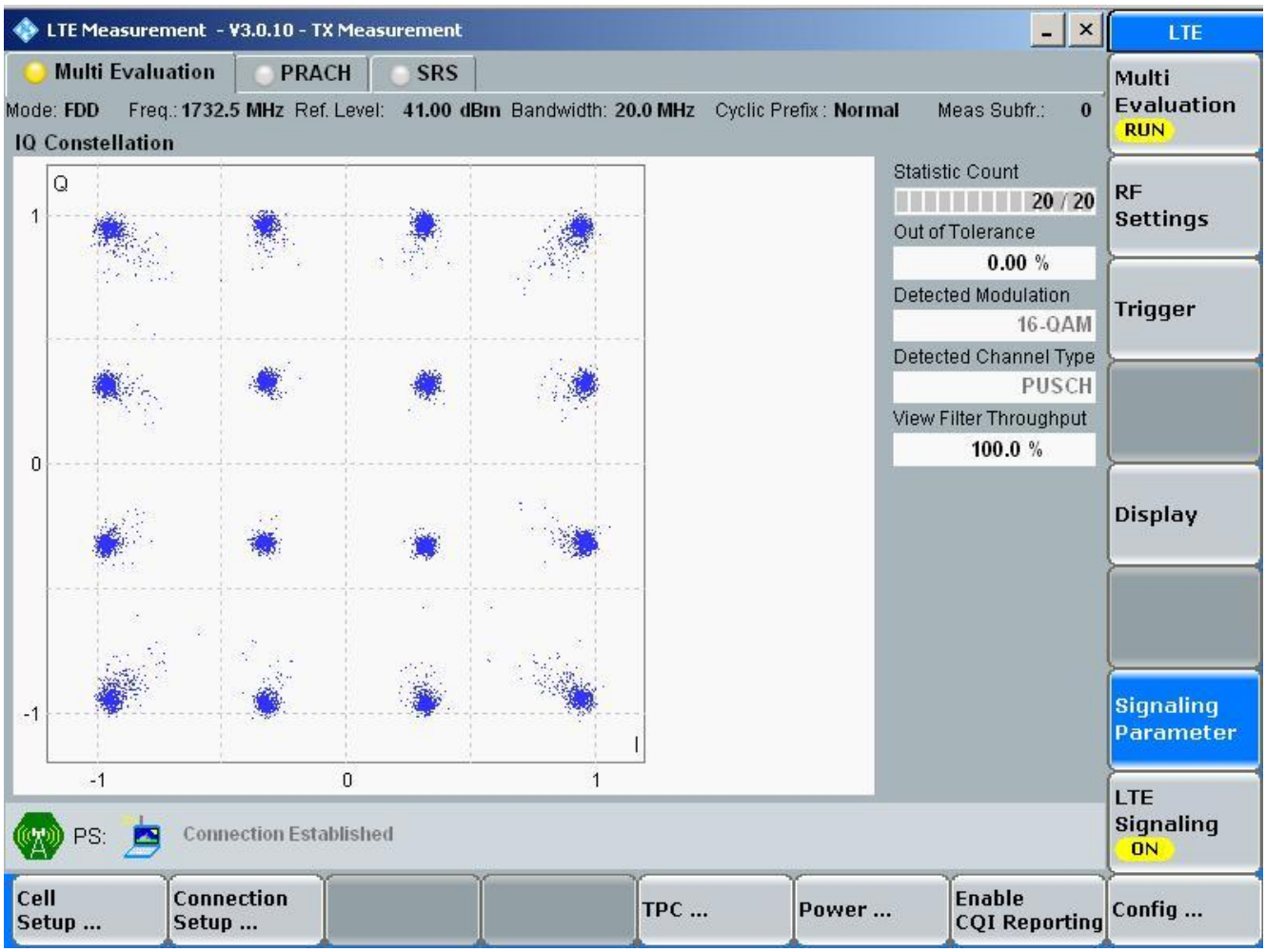
Channel Bandwidth = 10 MHz
Channel = M
16QAM/full RBs



Channel Bandwidth = 15 MHz
Channel = M
16QAM/full RBs



Channel Bandwidth = Highest (20 MHz)
Channel = M
16QAM/full RBs



----------END----------

Appendix C

Occupied Bandwidth

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

TABLE OF CONTENTS

Result Table

Table 1 Measurement Results

Test Mode	RF Channel	Occupied Bandwidth [MHz]	Verdict
TM1	1312	4.183	Pass
	1412	4.151	Pass
	1513	4.151	Pass

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

Table 2 Measurement Results (LTE) BAND 4

Test Mode	Carrier Conf.	RF Ch.	RB	Occupied Bandwidth [MHz]	-26dB BW [MHz]	Verdict
TM4	5 MHz	B	1RB#0	0.828	0.833	Pass
			1RB#max	0.799	0.840	Pass
			Partial RBs /RB #6	2.214	4.016	Pass
			Full RBs	4.479	4.906	Pass
		M	1RB#0	0.925	0.842	Pass
			1RB#max	0.835	0.865	Pass
			Partial RBs /RB #6	2.215	3.790	Pass
			Full RBs	4.465	4.928	Pass
		T	1RB#0	0.907	0.849	Pass
			1RB#0	0.881	0.843	Pass
			Partial RBs /RB #6	2.231	3.656	Pass
			Full RBs	4.476	4.884	Pass
	10 MHz	B	1RB#0	1.854	1.331	Pass
			1RB#max	1.698	1.485	Pass
			Partial RBs /RB #13	4.652	7.968	Pass
			Full RBs	8.921	9.734	Pass
		M	1RB#0	1.923	1.323	Pass
			1RB#max	1.887	1.477	Pass
			Partial RBs /RB #13	4.608	7.329	Pass
			Full RBs	8.923	9.750	Pass
		T	1RB#0	1.949	1.398	Pass
			1RB#max	1.867	1.430	Pass
			Partial RBs /RB #13	4.627	7.101	Pass
			Full RBs	8.935	9.750	Pass
	15 MHz	B	1RB#0	2.317	1.919	Pass
			1RB#max	2.329	2.060	Pass
			Partial RBs /RB #18	6.674	12.212	Pass
			Full RBs	13.428	14.896	Pass
		M	1RB#0	2.495	1.911	Pass
			1RB#max	2.469	2.248	Pass
			Partial RBs /RB #18	6.630	10.132	Pass
			Full RBs	13.394	14.618	Pass
		T	1RB#0	2.469	1.975	Pass
			1RB#max	2.858	1.924	Pass
			Partial RBs /RB #18	6.630	11.077	Pass
			Full RBs	13.407	14.861	Pass
	20 MHz	B	1RB#0	3.395	2.416	Pass
			1RB#max	3.452	2.187	Pass

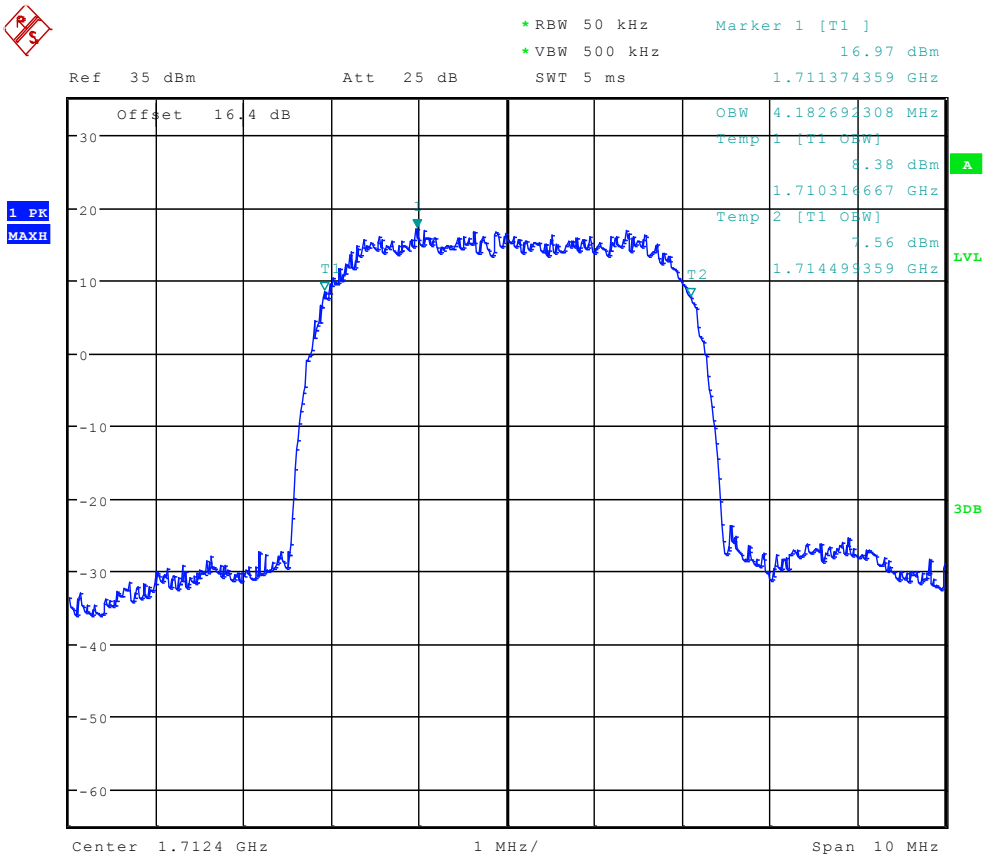
Test Mode	Carrier Conf.	RF Ch.	RB	Occupied Bandwidth [MHz]	-26dB BW [MHz]	Verdict
			Partial RBs /RB #25	9.160	15.560	Pass
			Full RBs	17.884	19.621	Pass
		M	1RB#0	3.703	2.542	Pass
			1RB#max	3.506	2.390	Pass
			Partial RBs /RB #25	9.120	13.680	Pass
			Full RBs	17.845	19.594	Pass
		T	1RB#0	3.666	2.548	Pass
			1RB#max	3.886	2.639	Pass
			Partial RBs /RB #25	9.160	14.063	Pass
			Full RBs	17.855	19.403	Pass
TM5	5 MHz	B	1RB#0	0.947	0.815	Pass
			1RB#max	0.832	0.883	Pass
			Partial RBs /RB #6	2.241	4.290	Pass
			Full RBs	4.474	4.878	Pass
		M	1RB#0	0.969	0.853	Pass
			1RB#max	0.929	0.909	Pass
			Partial RBs /RB #6	2.234	3.945	Pass
			Full RBs	4.463	4.928	Pass
		T	1RB#0	0.984	0.861	Pass
			1RB#max	0.933	0.821	Pass
			Partial RBs /RB #6	2.254	4.257	Pass
			Full RBs	4.464	4.909	Pass
	10 MHz	B	1RB#0	1.912	1.463	Pass
			1RB#max	1.921	1.379	Pass
			Partial RBs /RB #13	4.653	8.901	Pass
			Full RBs	8.934	9.757	Pass
		M	1RB#0	1.942	1.508	Pass
			1RB#max	1.817	1.475	Pass
			Partial RBs /RB #13	4.619	7.975	Pass
			Full RBs	8.934	9.776	Pass
		T	1RB#0	1.946	1.429	Pass
			1RB#max	1.897	1.490	Pass
			Partial RBs /RB #13	4.645	7.245	Pass
			Full RBs	8.938	9.751	Pass
	15 MHz	B	1RB#0	2.523	2.022	Pass
			1RB#max	2.513	2.200	Pass
			Partial RBs /RB #18	6.684	11.986	Pass
			Full RBs	13.444	14.691	Pass
		M	1RB#0	2.570	1.985	Pass
			1RB#max	2.467	2.004	Pass
			Partial RBs /RB #18	6.688	12.540	Pass
			Full RBs	13.431	14.959	Pass
		T	1RB#0	2.682	2.020	Pass
			1RB#max	2.435	2.068	Pass
			Partial RBs /RB #18	6.722	12.473	Pass
			Full RBs	13.413	14.638	Pass
	20 MHz	B	1RB#0	3.600	2.700	Pass
			1RB#max	3.376	2.555	Pass
			Partial RBs /RB #25	9.141	14.561	Pass
			Full RBs	17.905	19.487	Pass

Test Mode	Carrier Conf.	RF Ch.	RB	Occupied Bandwidth [MHz]	-26dB BW [MHz]	Verdict
		M	1RB#0	3.534	2.351	Pass
			1RB#max	3.910	2.414	Pass
			Partial RBs /RB #25	9.204	16.668	Pass
			Full RBs	17.869	19.337	Pass
		T	1RB#0	3.666	2.548	Pass
			1RB#max	4.033	2.614	Pass
			Partial RBs /RB #25	9.193	17.670	Pass
			Full RBs	17.886	19.490	Pass

1 For WCDMA Band 4

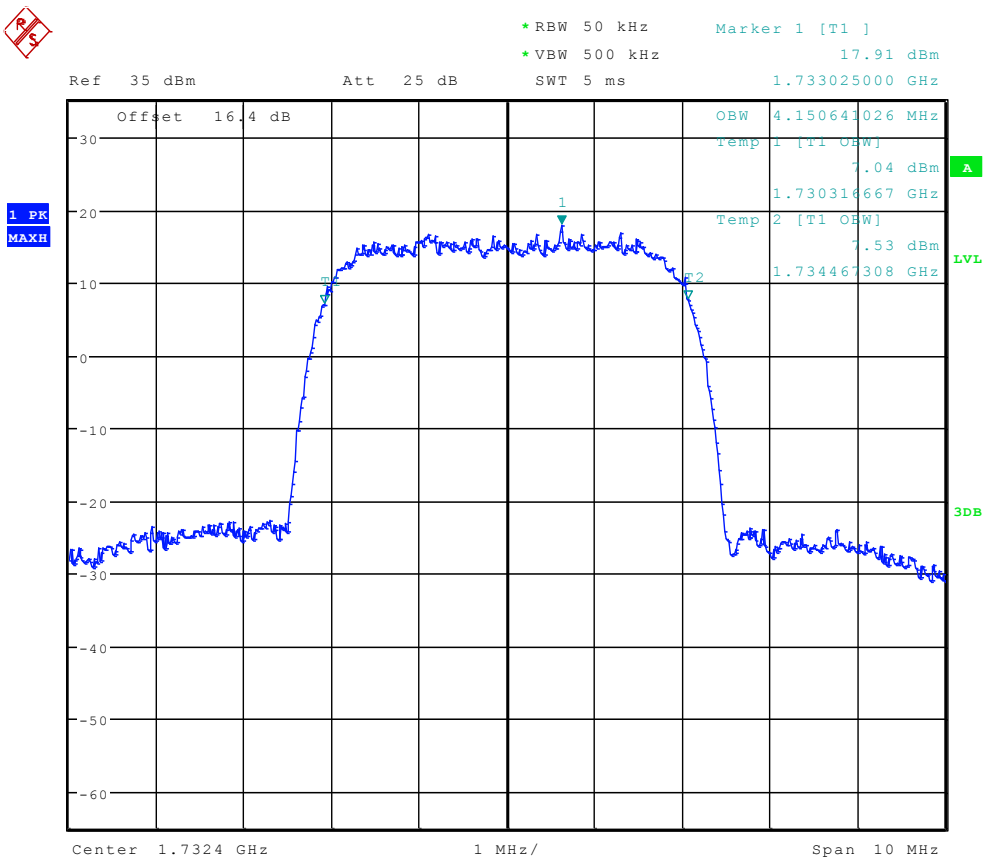
1.1 Test Mode=TM 1

1.1.1 Channel B



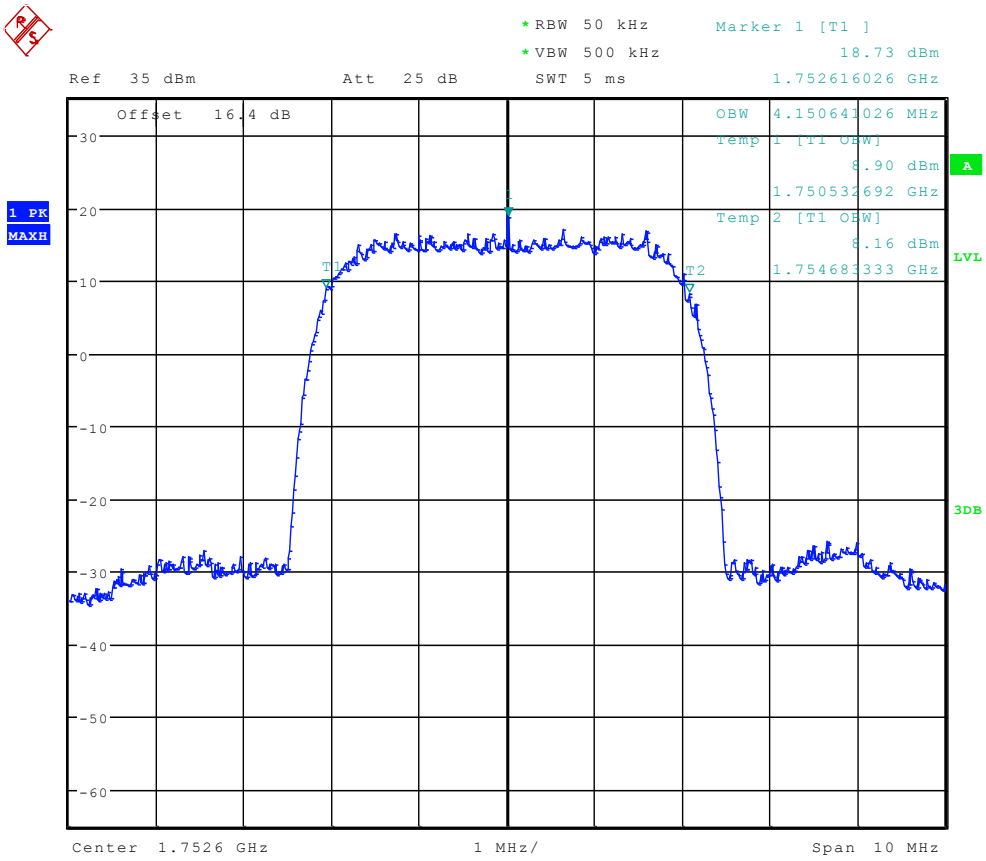
Date: 31.MAY.2012 11:55:20

1.1.2 Channel M



Date: 31.MAY.2012 11:55:33

1.1.3 Channel T



Date: 31.MAY.2012 11:55:47

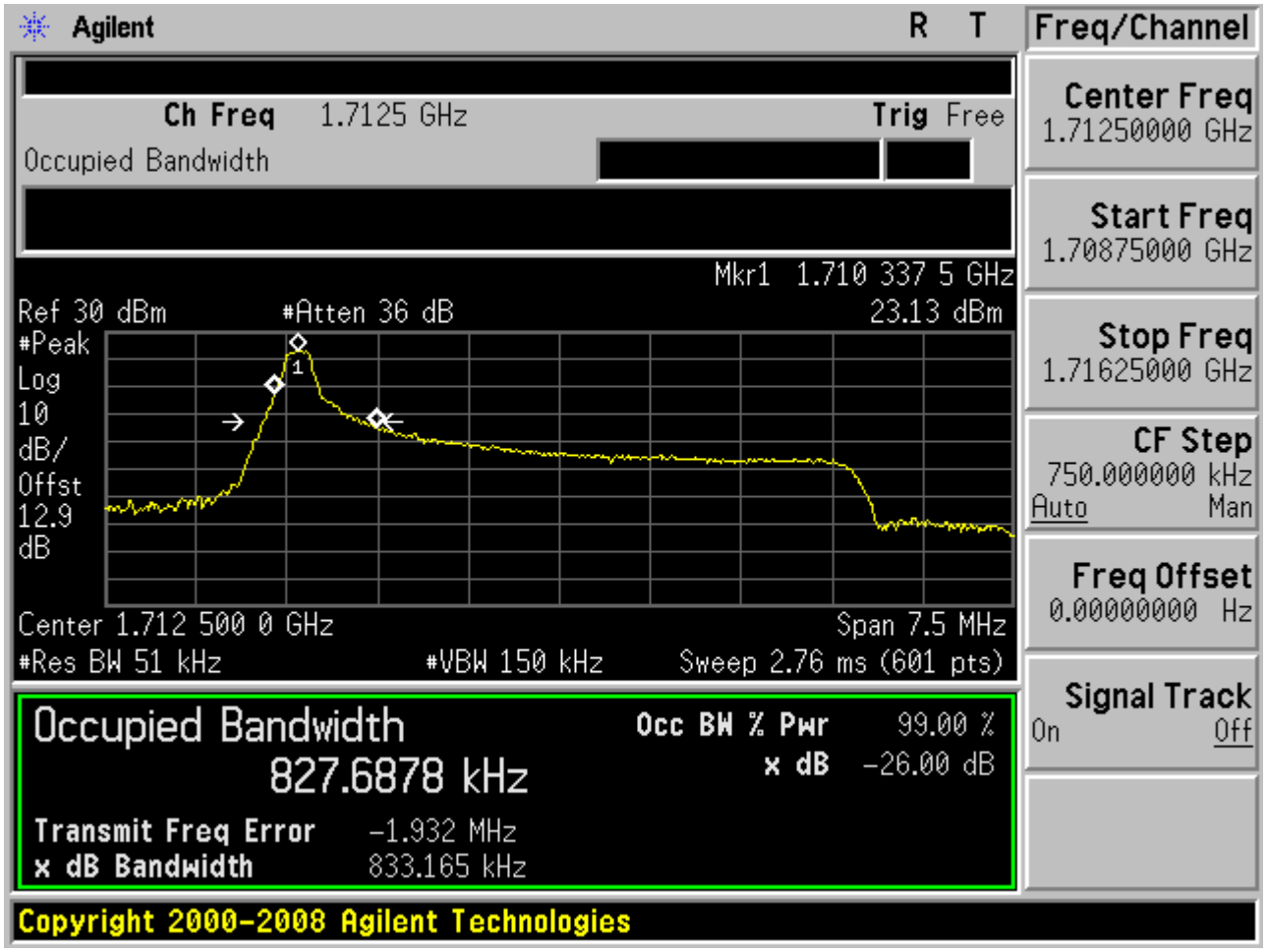
2 For Band 4

2.1 Test Mode=TM4

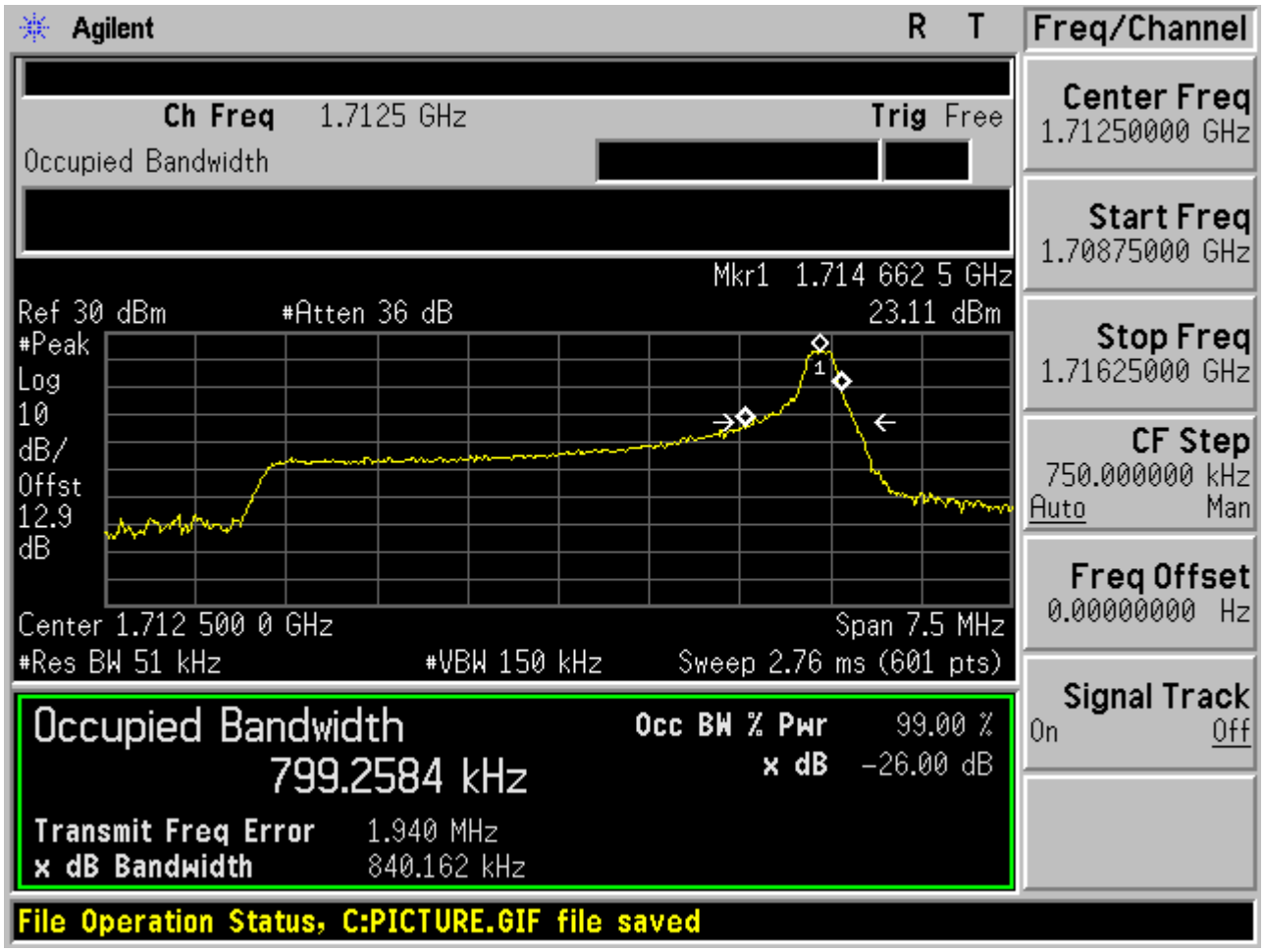
2.1.1 Channel Bandwidth = Lowest (5 MHz)

2.1.1.1 Channel = B

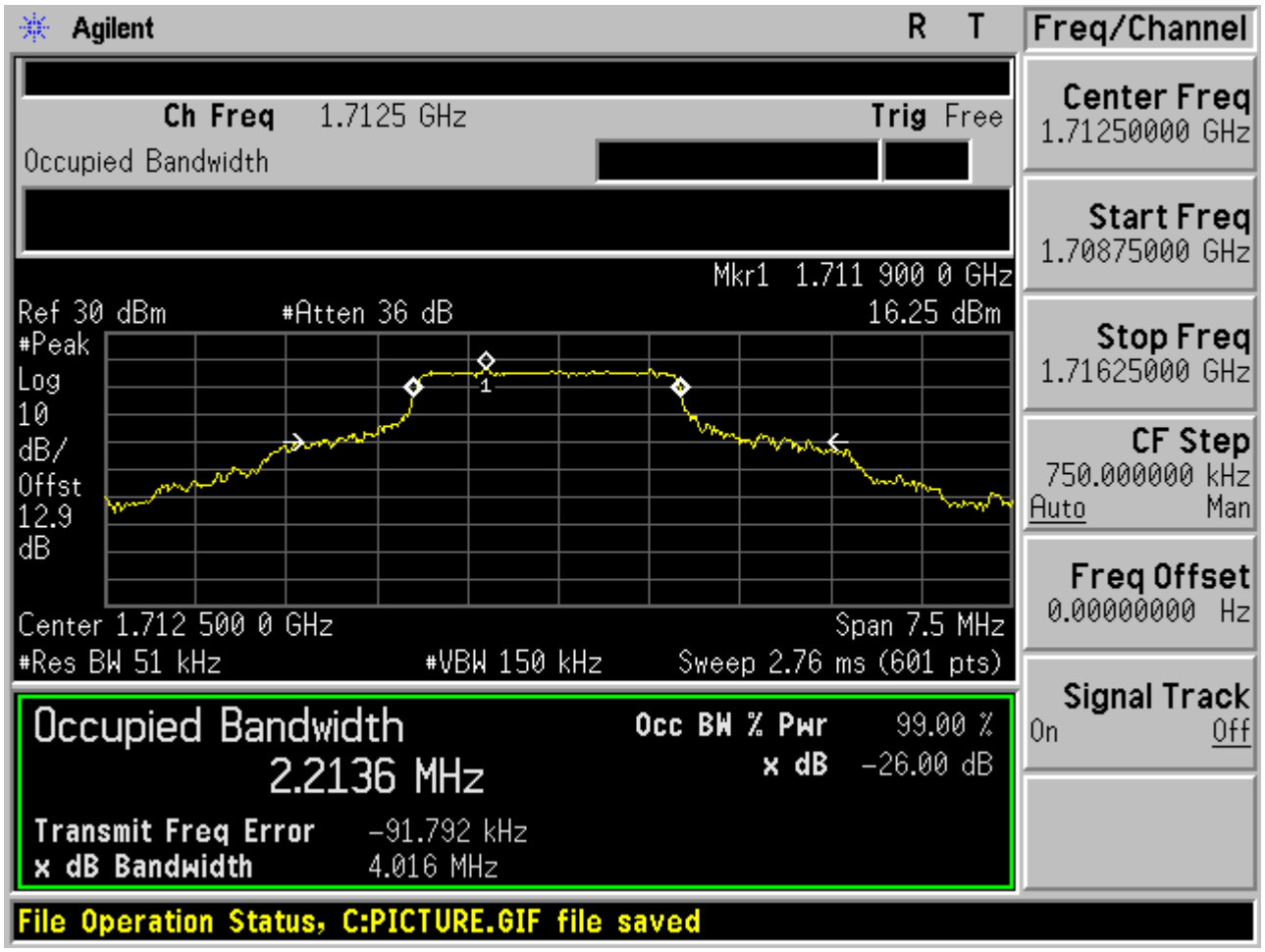
2.1.1.1.1 QPSK/1 RB#0



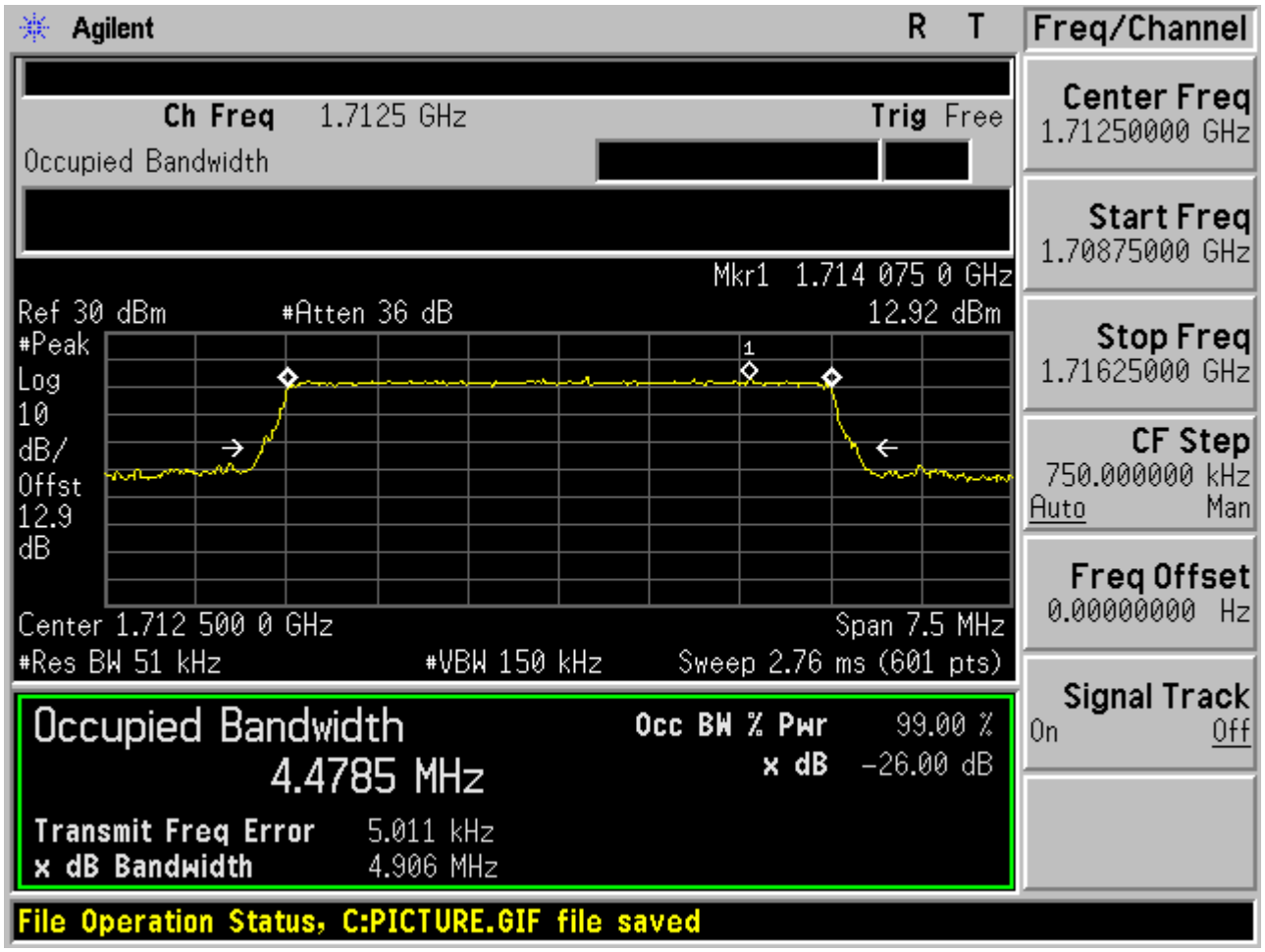
2.1.1.1.2 QPSK/1 RB#max



2.1.1.1.3 QPSK/ Partial RBs /RB #6

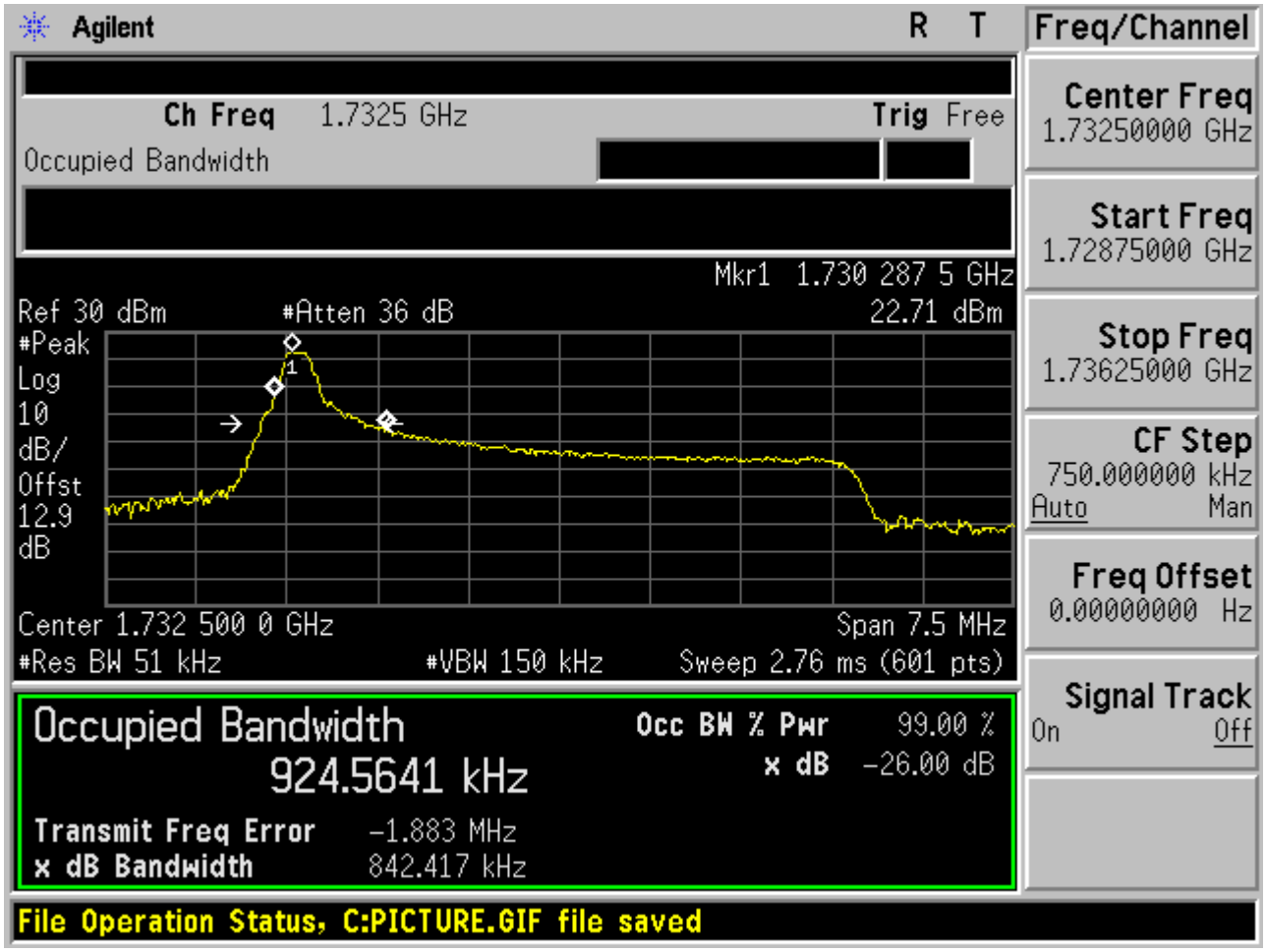


2.1.1.1.4 QPSK/full RBs

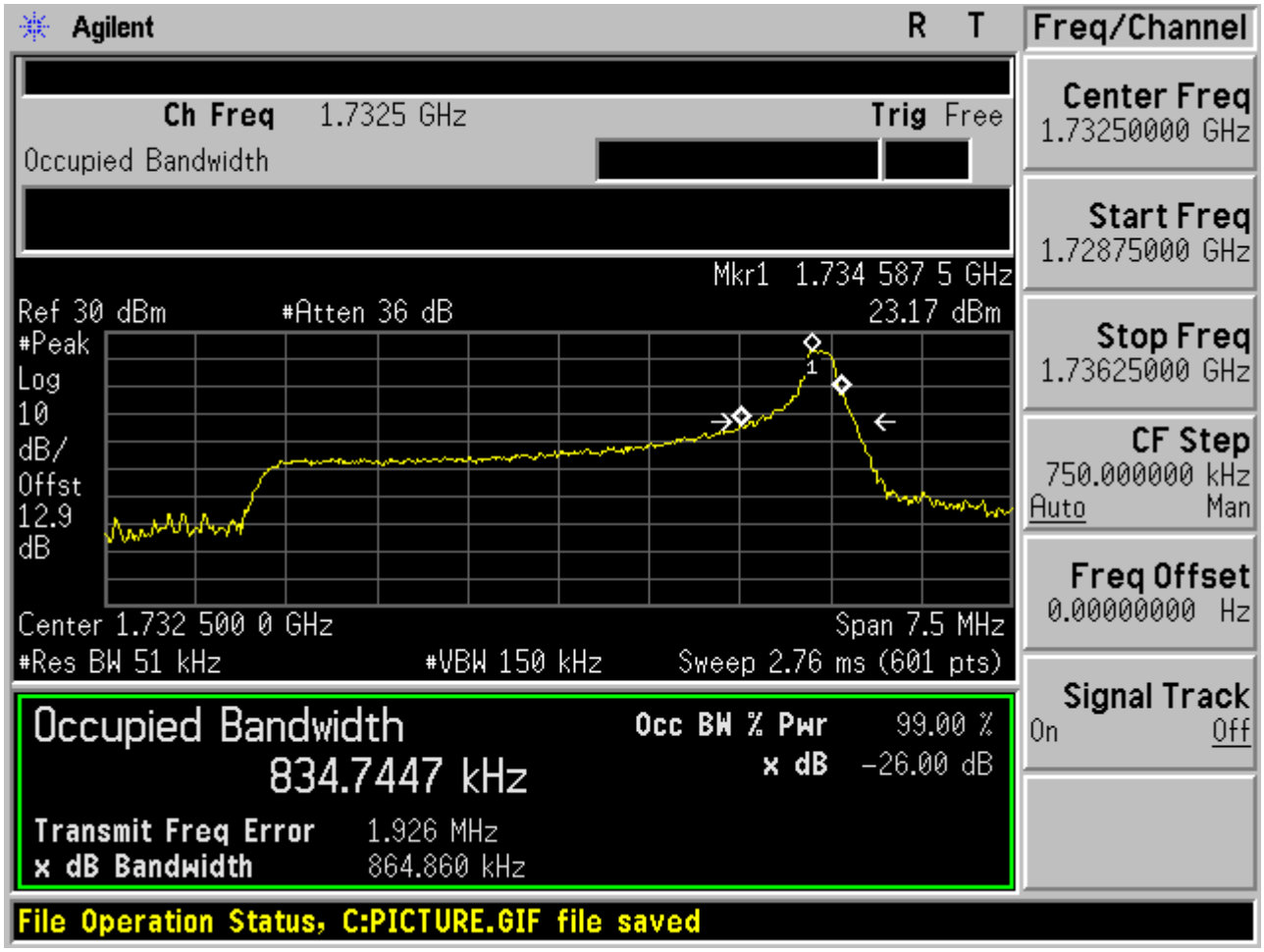


2.1.1.2 Channel =M

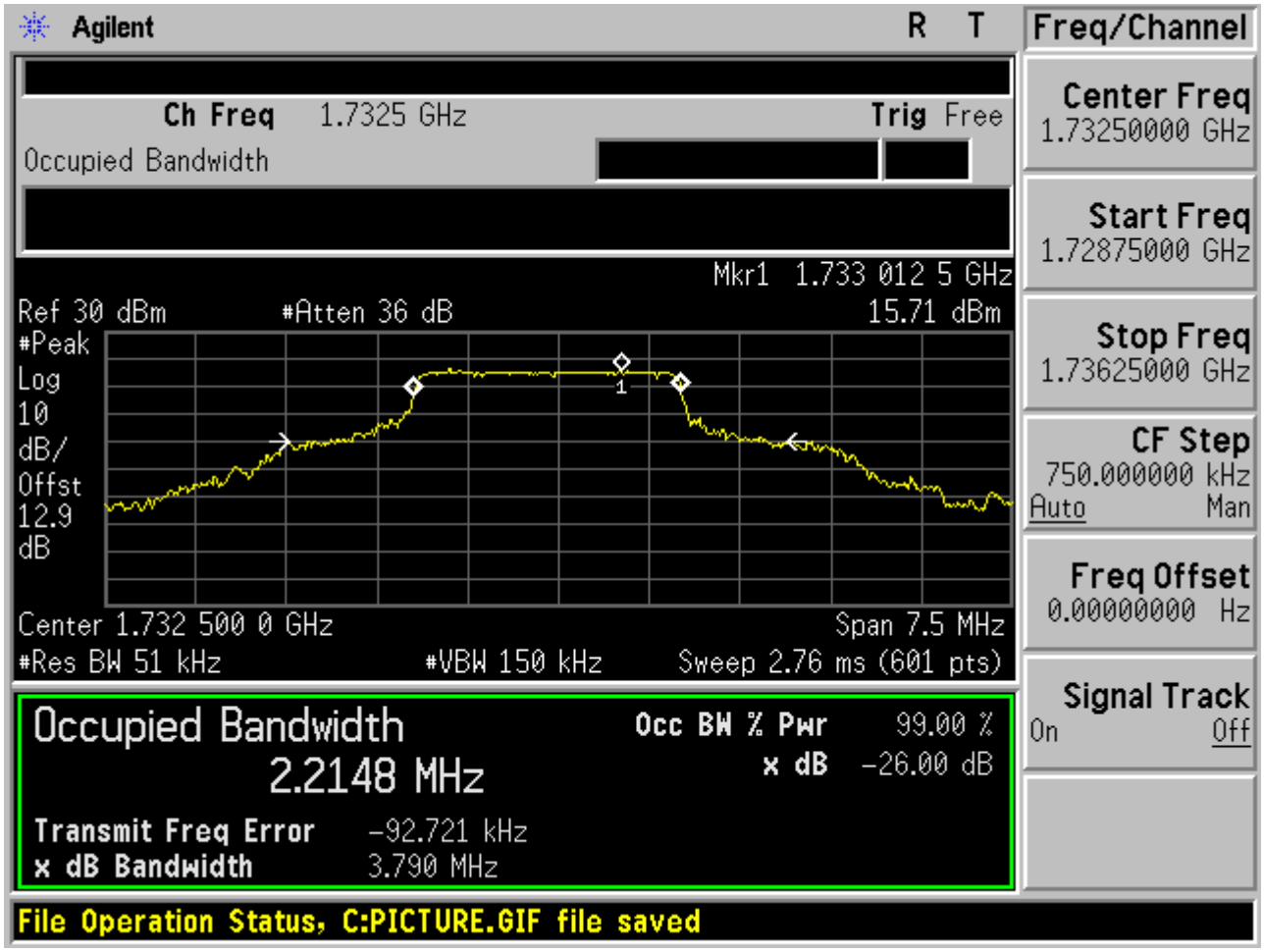
2.1.1.2.1 QPSK/1 RB#0



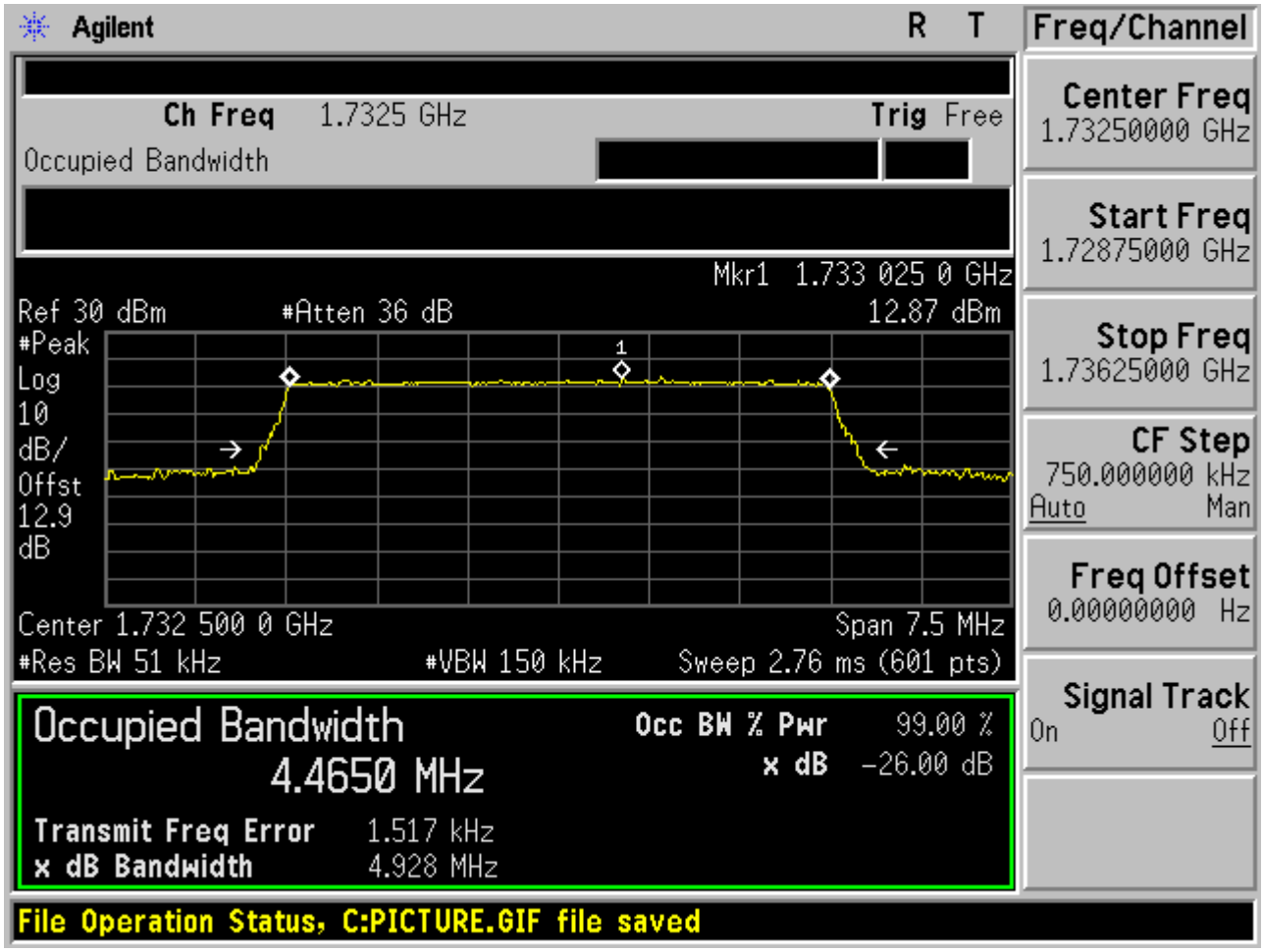
2.1.1.2.2 QPSK/1 RB#max



2.1.1.2.3 QPSK/ Partial RBs /RB #6

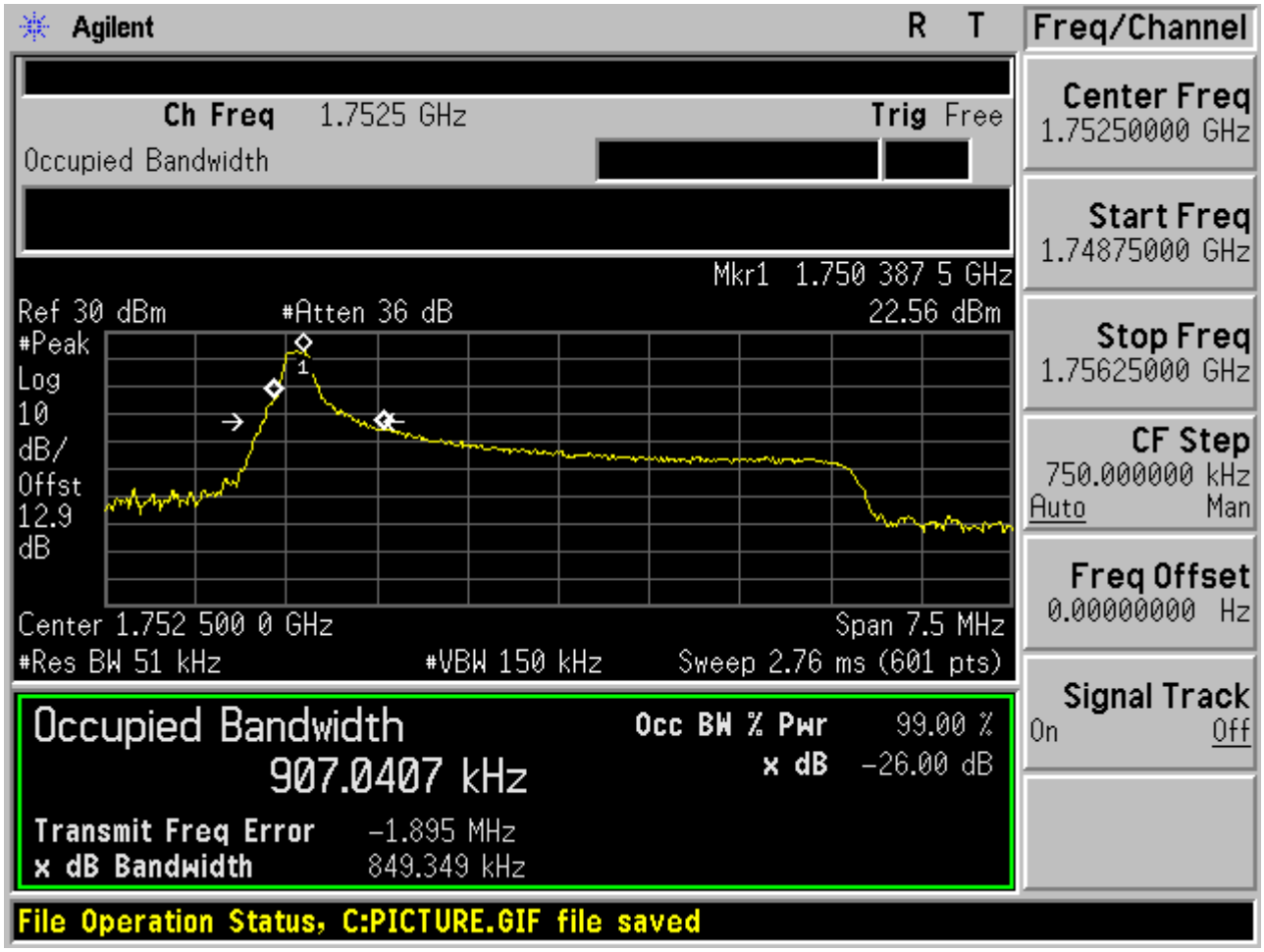


2.1.1.2.4 QPSK/full RBs

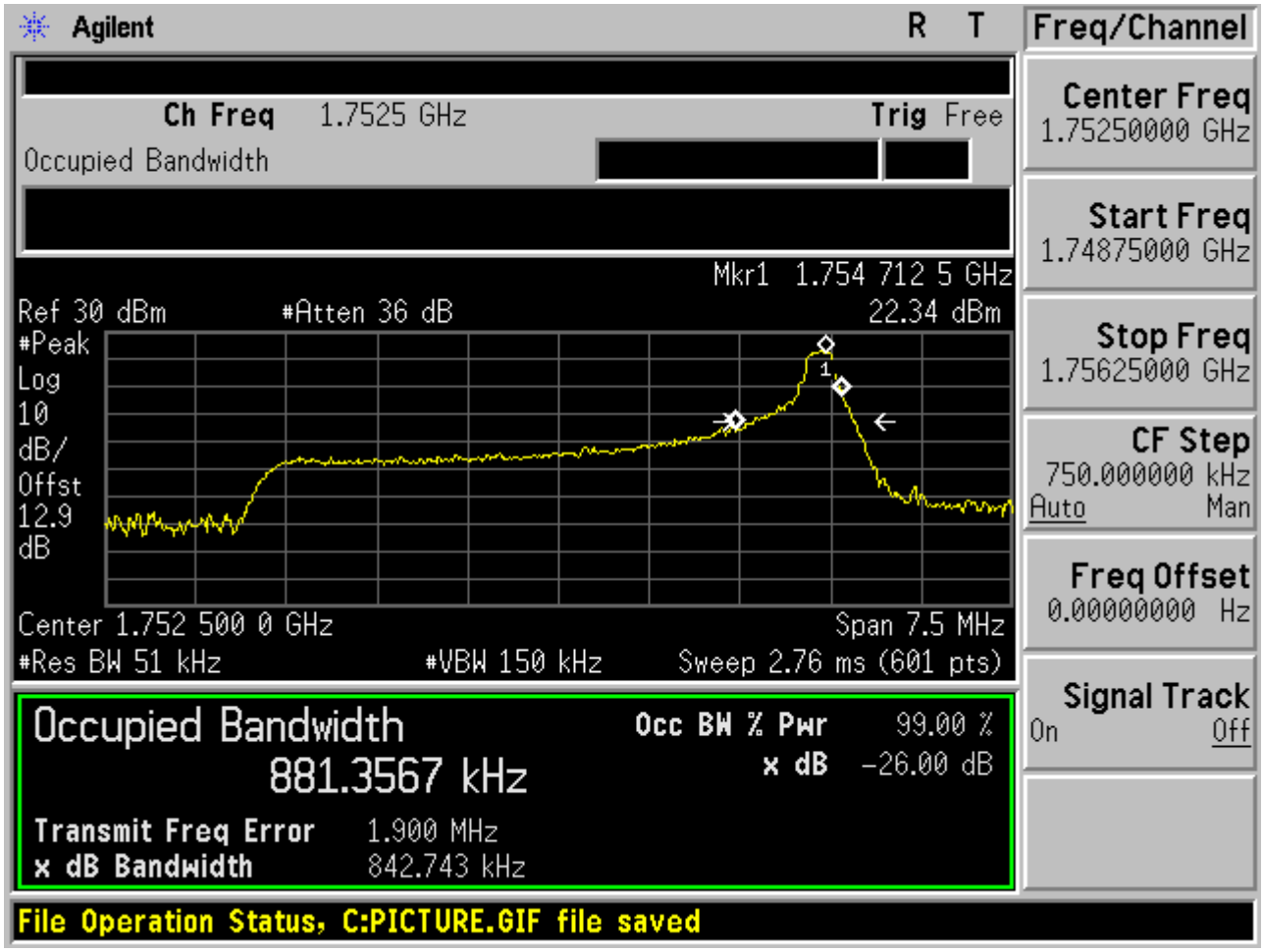


2.1.1.3 Channel =T

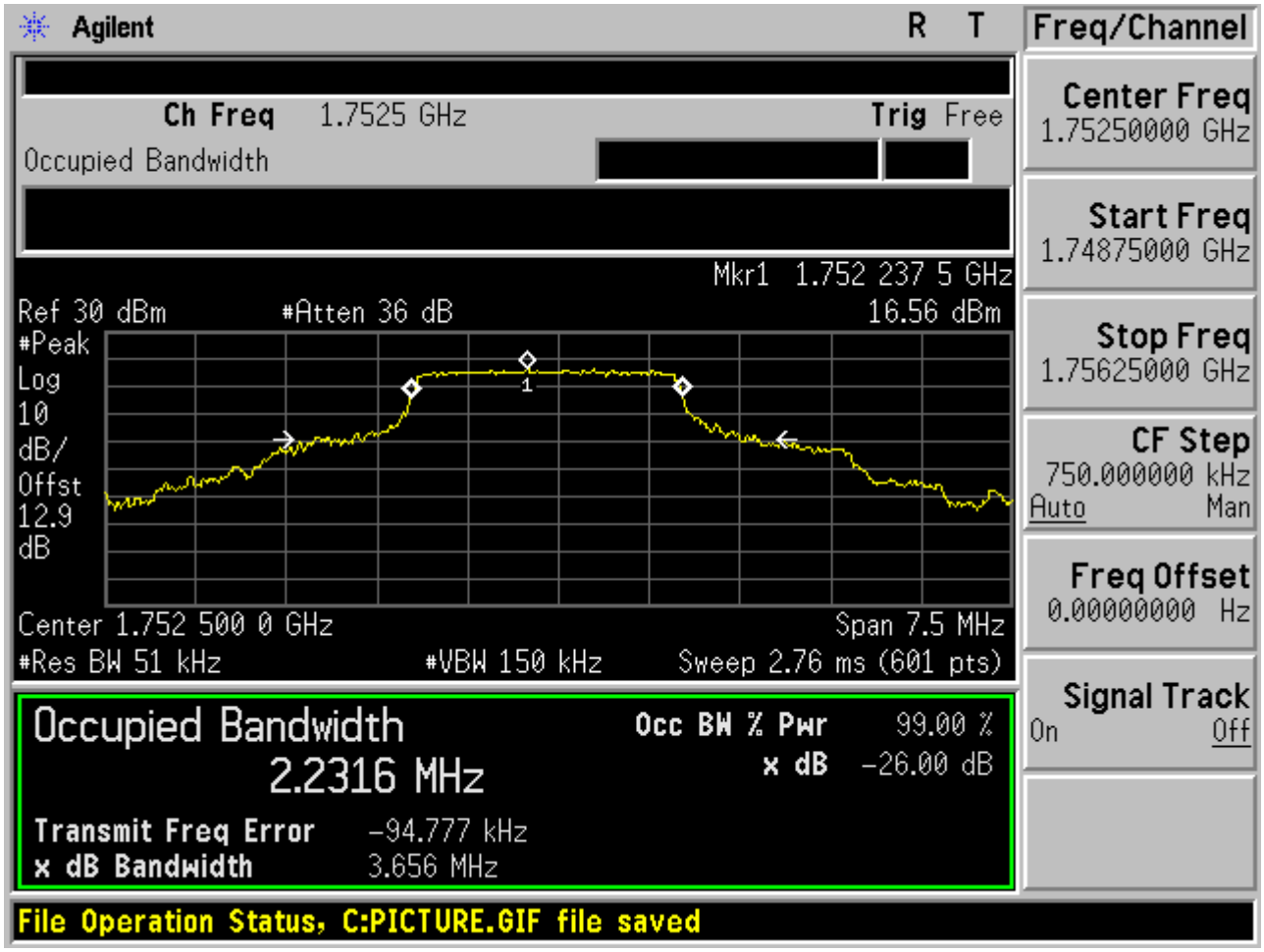
2.1.1.3.1 QPSK/1 RB#0



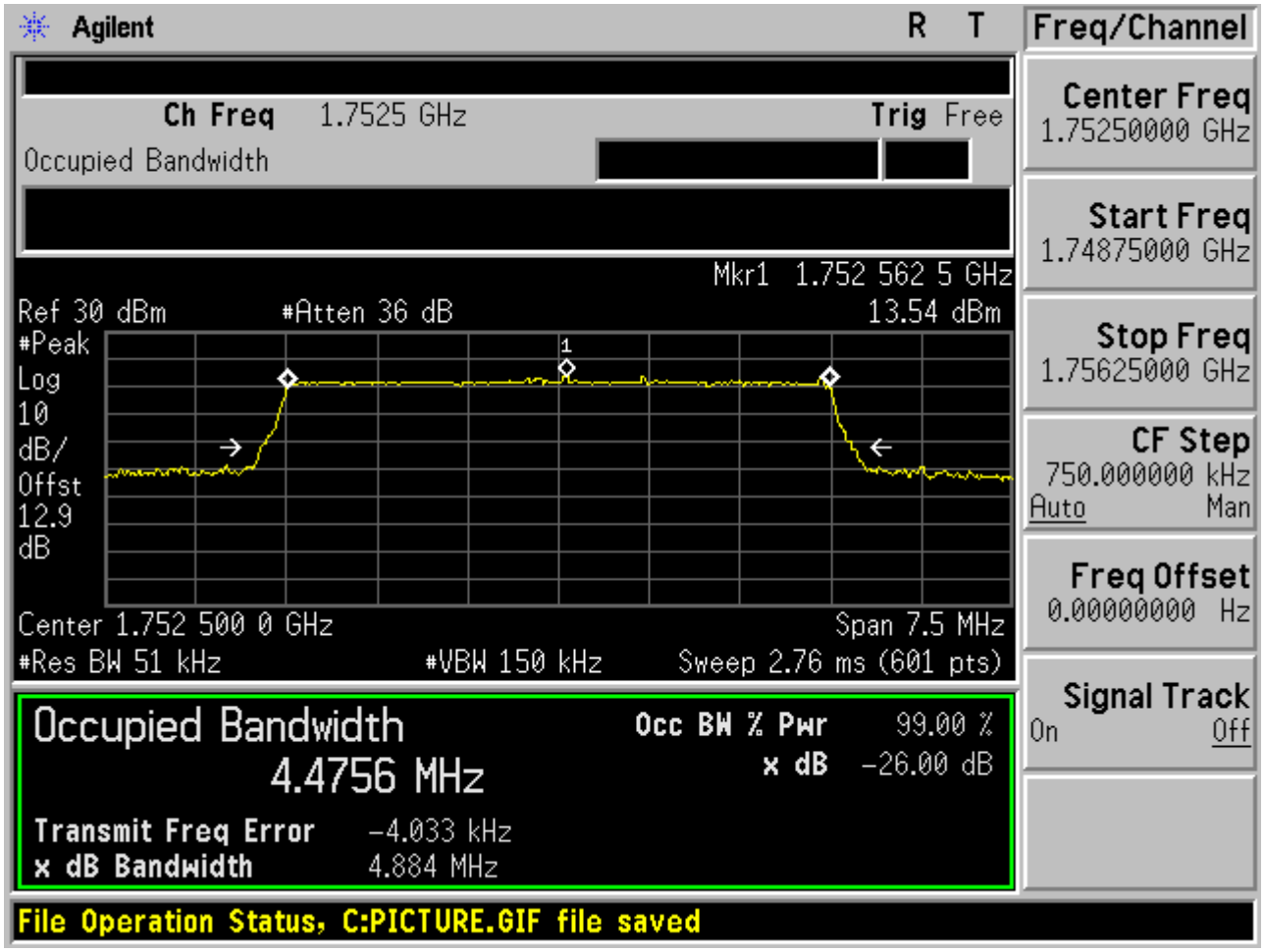
2.1.1.3.2 QPSK/1 RB#max



2.1.1.3.3 QPSK/ Partial RBs /RB #6



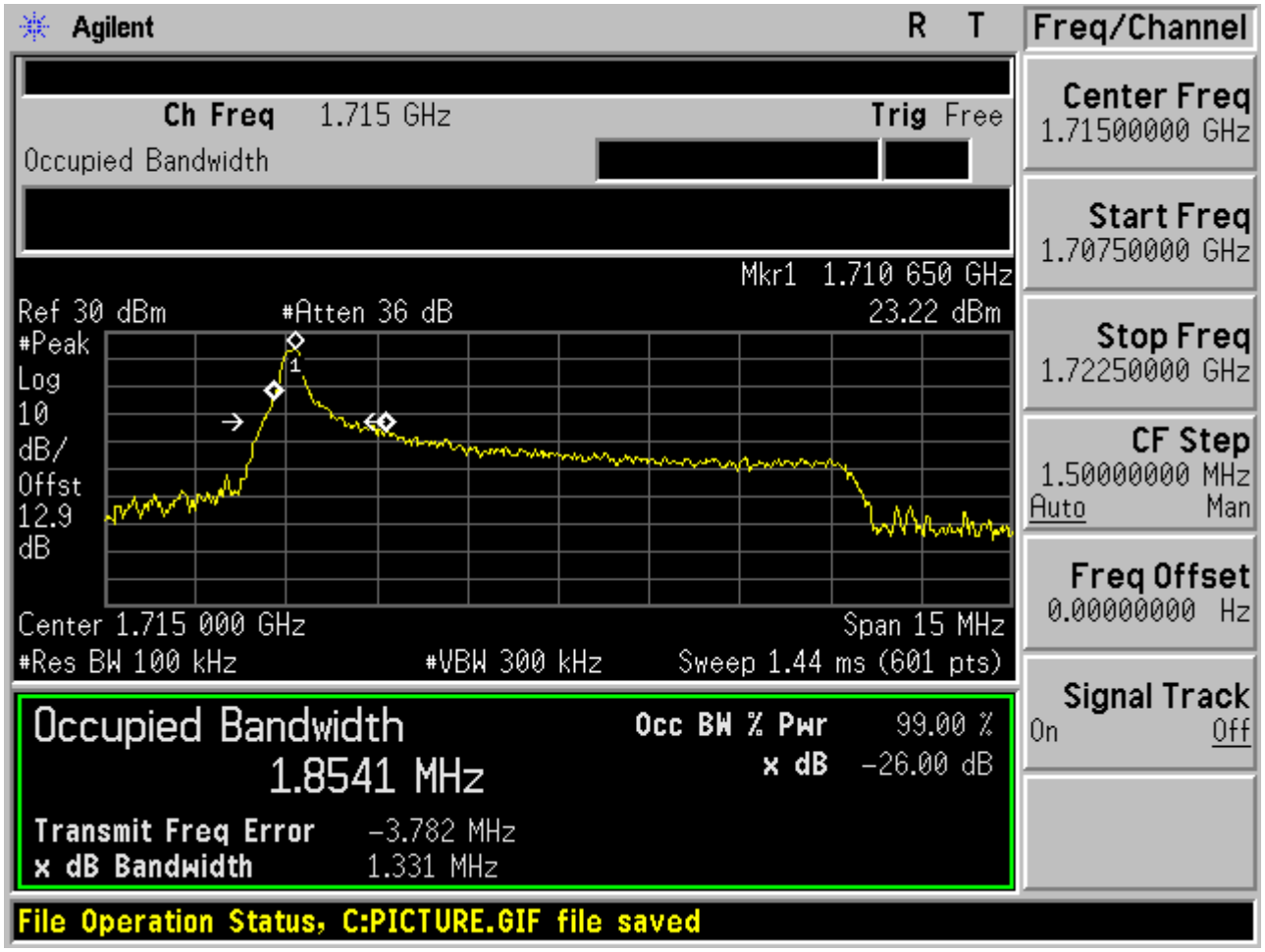
2.1.1.3.4 QPSK/full RBs


Agilent
R T
Freq/Channel
Ch Freq 1.7525 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.752 562 5 GHz
Ref 30 dBm
#Atten 36 dB
13.54 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.752 500 0 GHz
Span 7.5 MHz
#Res BW 51 kHz
#VBW 150 kHz
Sweep 2.76 ms (601 pts)
Occupied Bandwidth
4.4756 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error -4.033 kHz
x dB Bandwidth 4.884 MHz
Center Freq
1.75250000 GHz
Start Freq
1.74875000 GHz
Stop Freq
1.75625000 GHz
CF Step
750.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

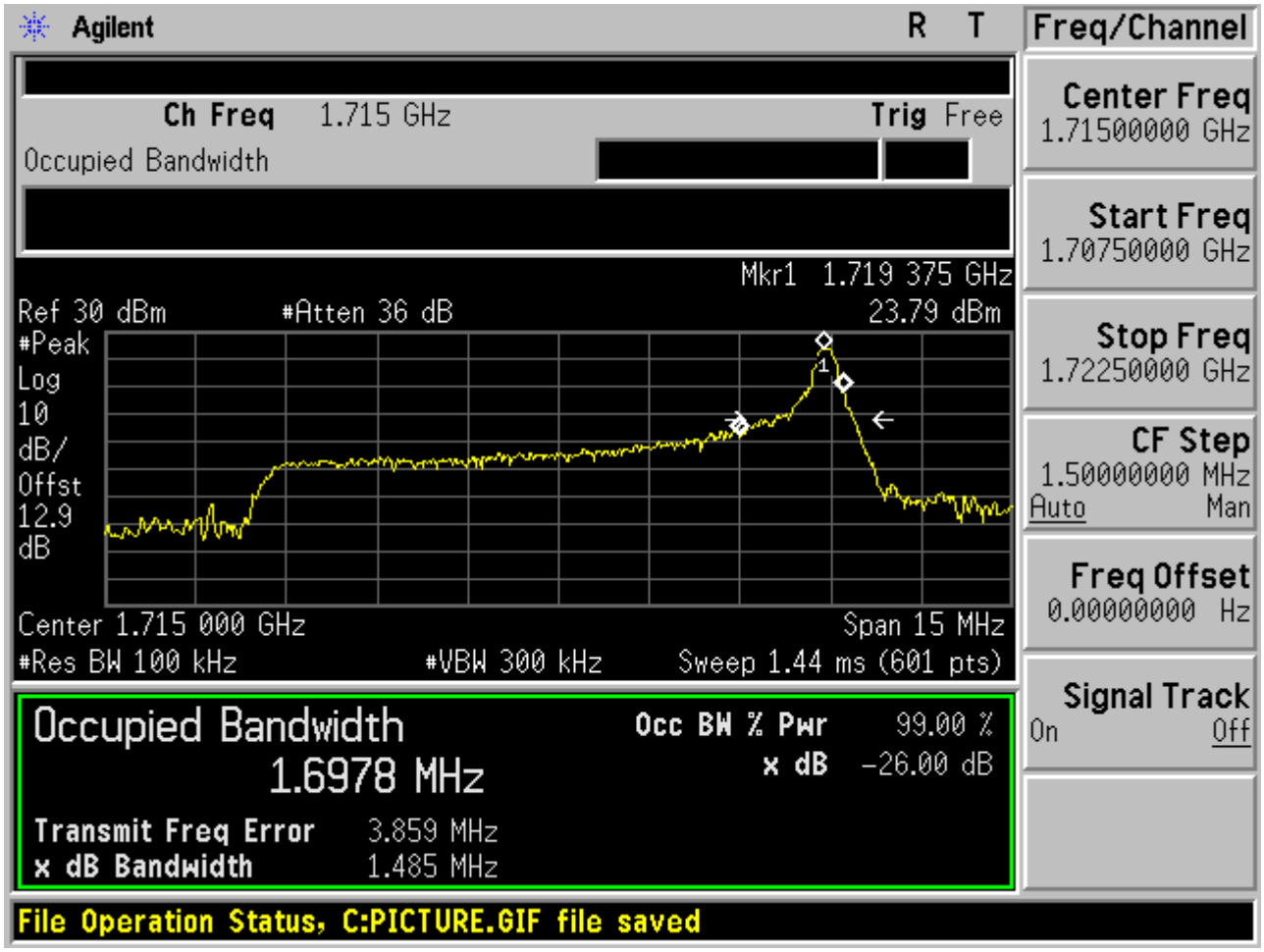
2.1.2 Channel Bandwidth = 10 MHz

2.1.2.1 Channel = B

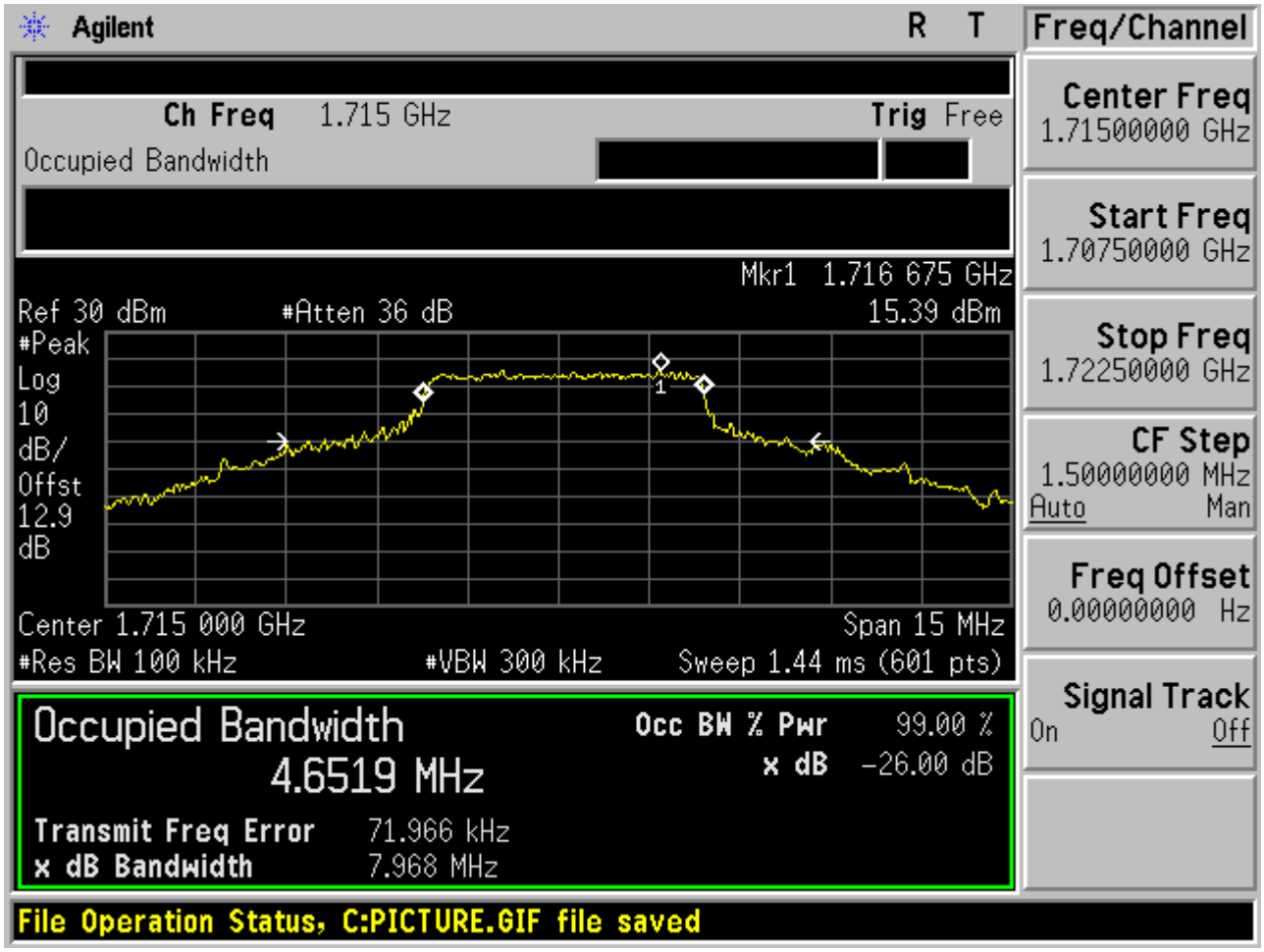
2.1.2.1.1 QPSK/1 RB#0



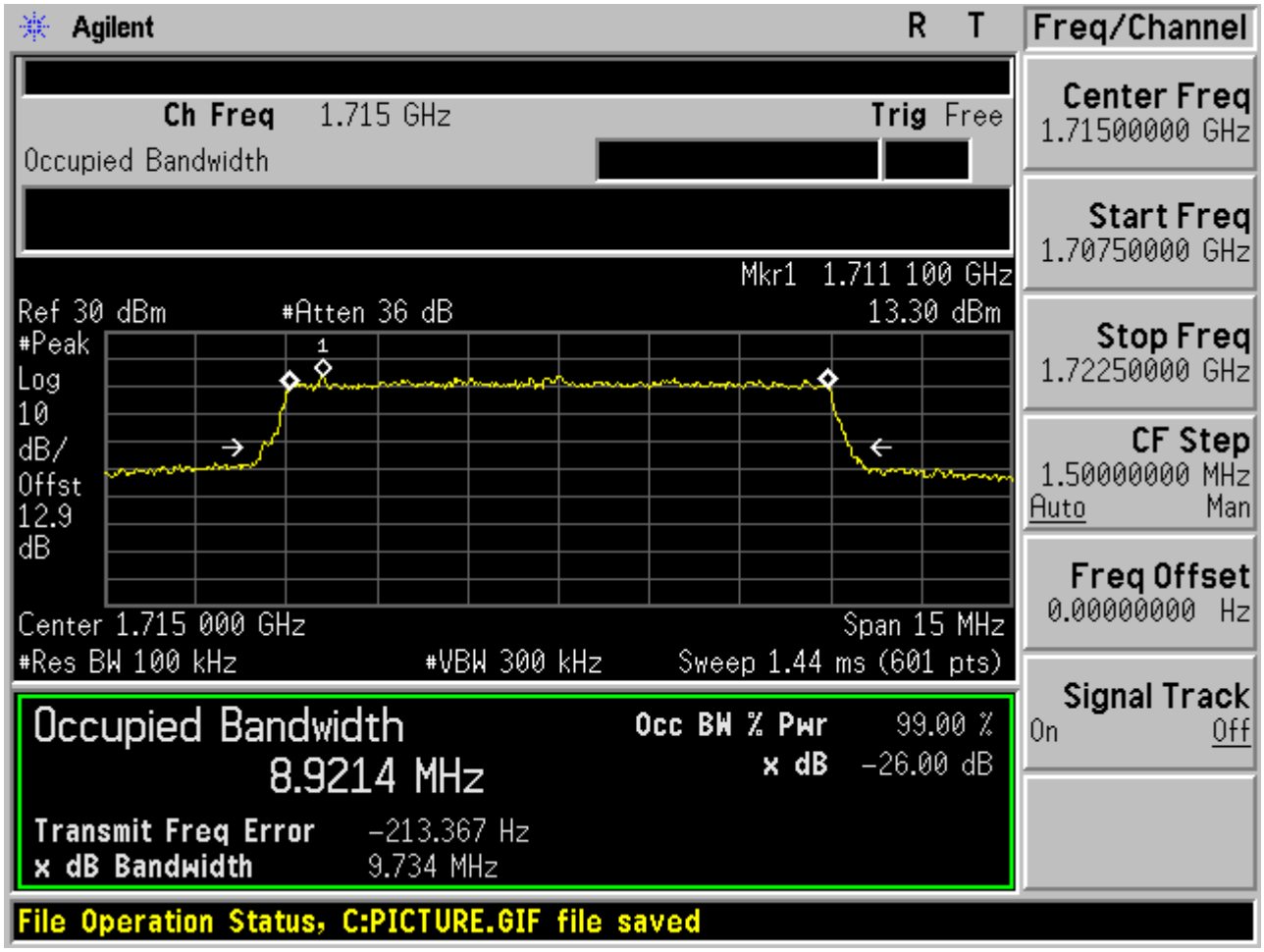
2.1.2.1.2 QPSK/1 RB#max



2.1.2.1.3 QPSK/ Partial RBs /RB #13

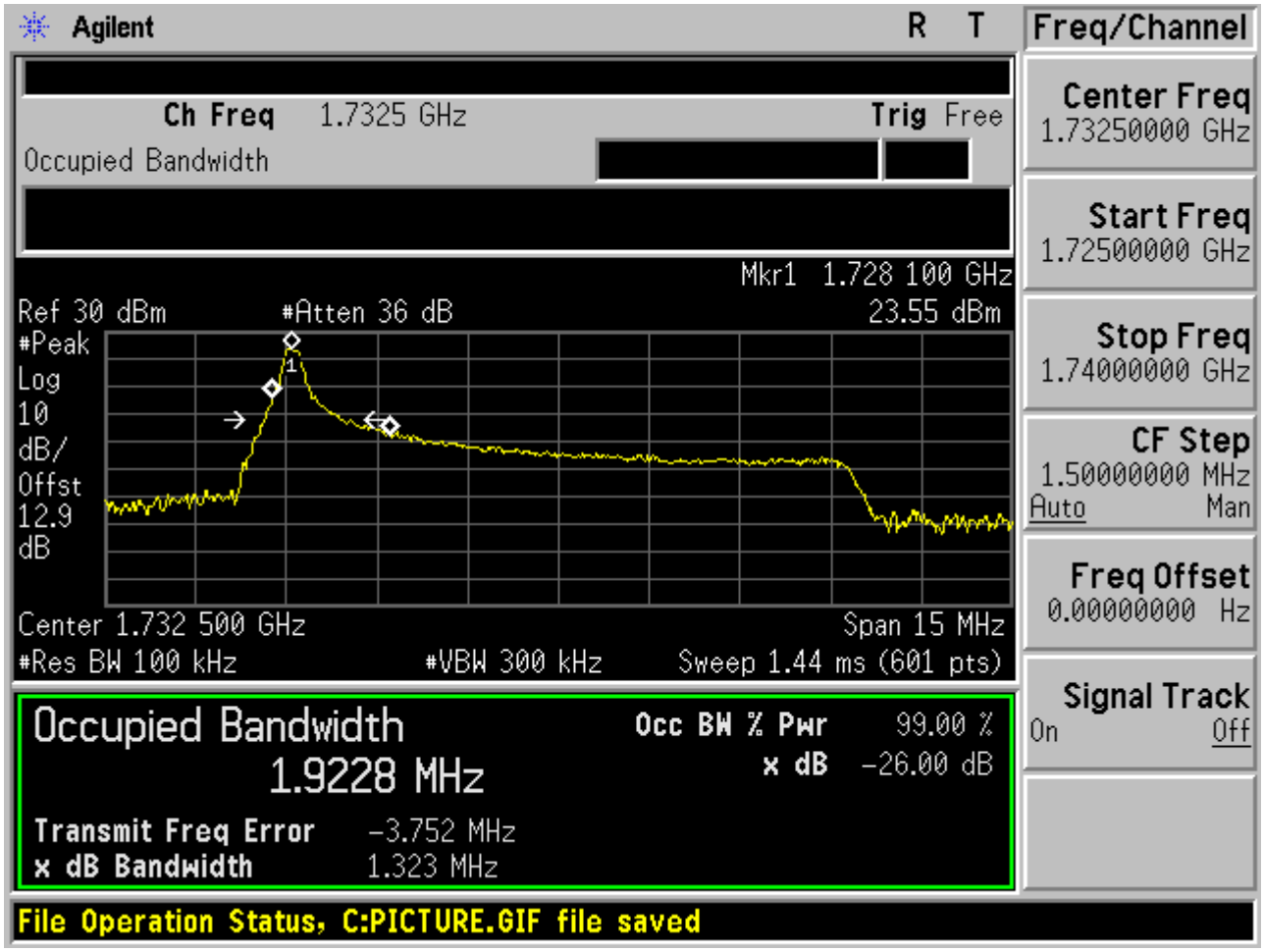


2.1.2.1.4 QPSK/full RBs

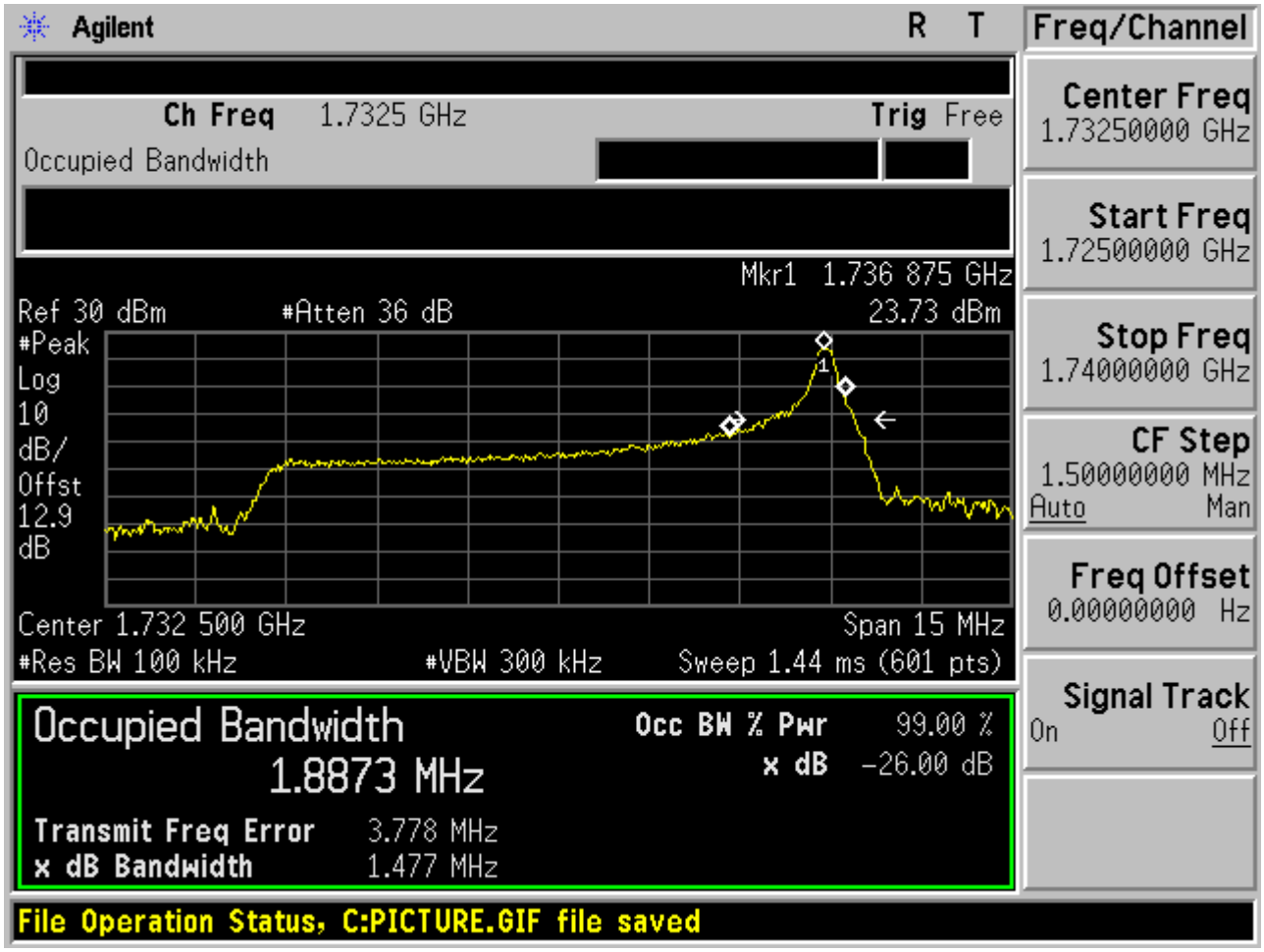


2.1.2.2 Channel = M

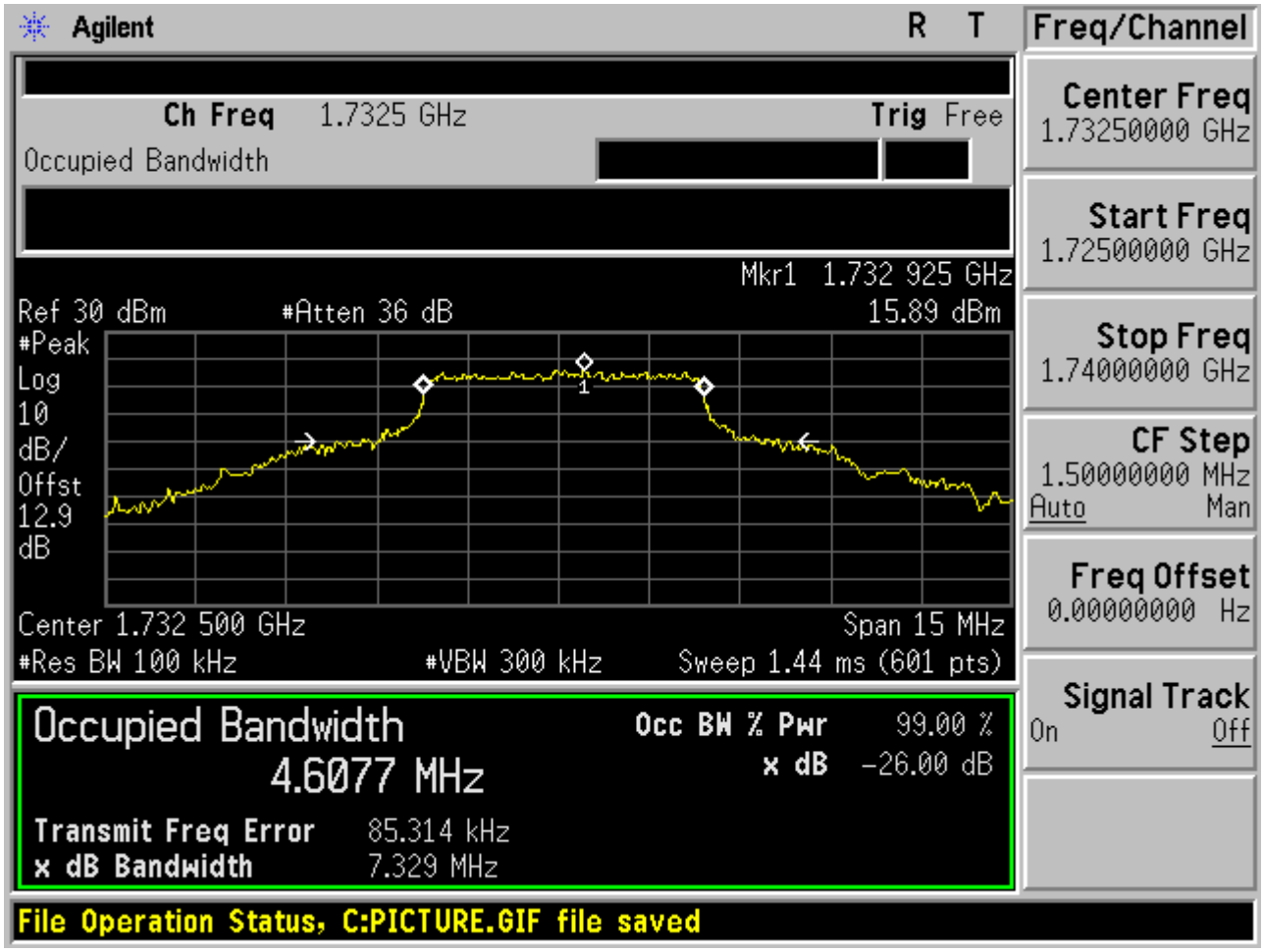
2.1.2.2.1 QPSK/1 RB#0



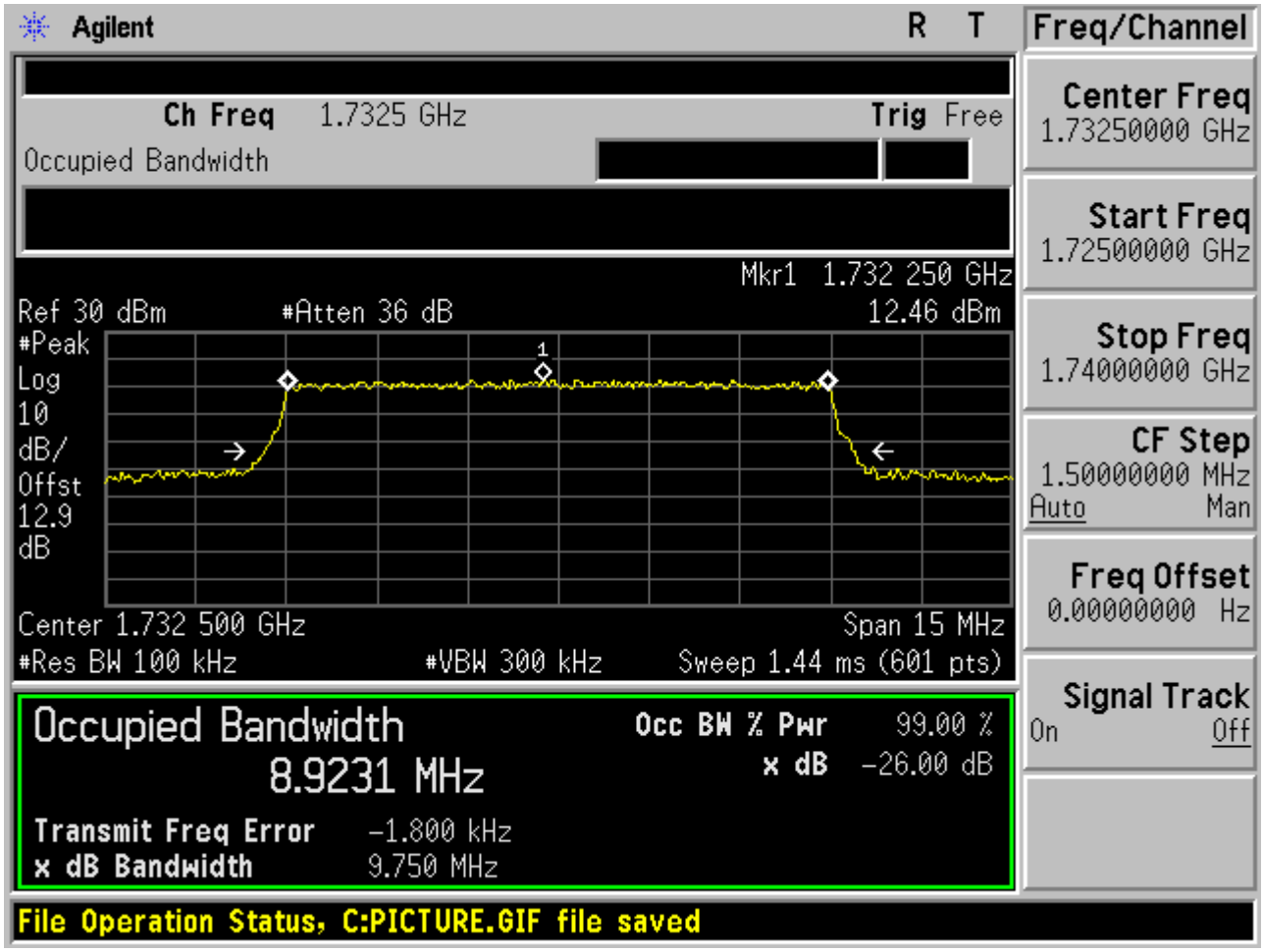
2.1.2.2.2 QPSK/1 RB#max



2.1.2.2.3 QPSK/ Partial RBs /RB #13

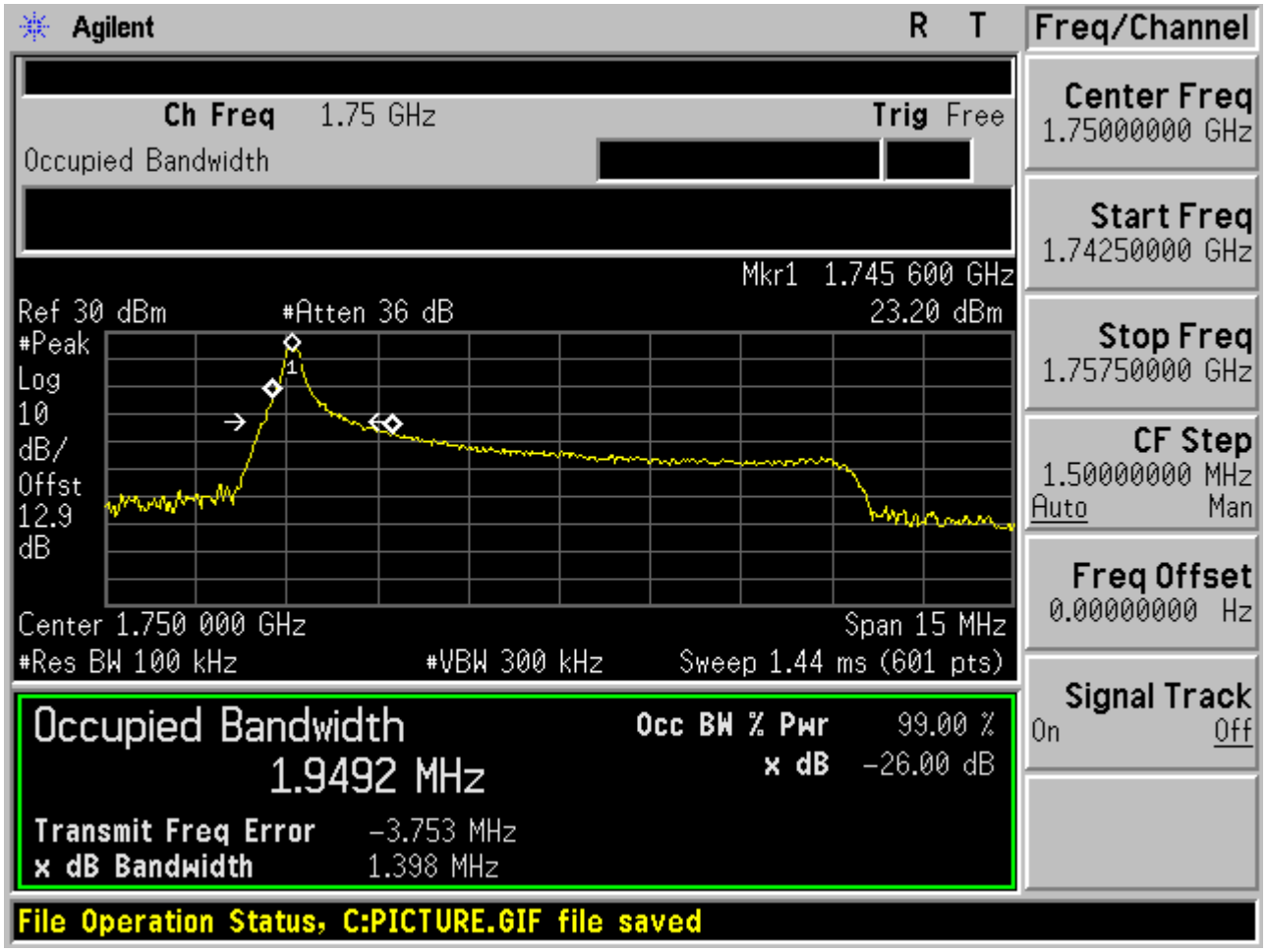


2.1.2.2.4 QPSK/full RBs

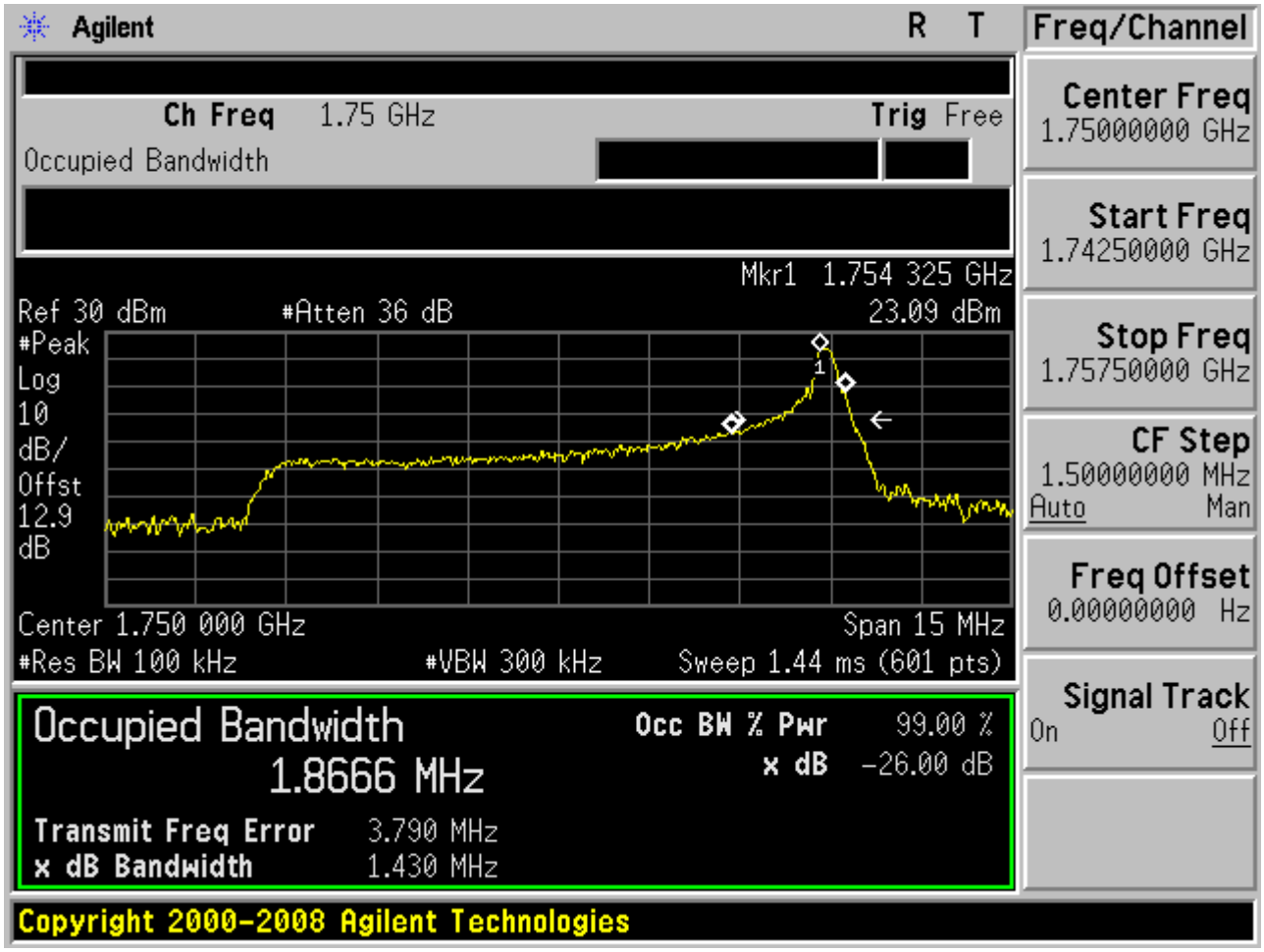

Agilent
R T
Freq/Channel
Ch Freq 1.7325 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.732 250 GHz
Ref 30 dBm
#Atten 36 dB
12.46 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.732 500 GHz
Span 15 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.44 ms (601 pts)
Occupied Bandwidth
8.9231 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error -1.800 kHz
x dB Bandwidth 9.750 MHz
Center Freq
1.73250000 GHz
Start Freq
1.72500000 GHz
Stop Freq
1.74000000 GHz
CF Step
1.50000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

2.1.2.3 Channel =T

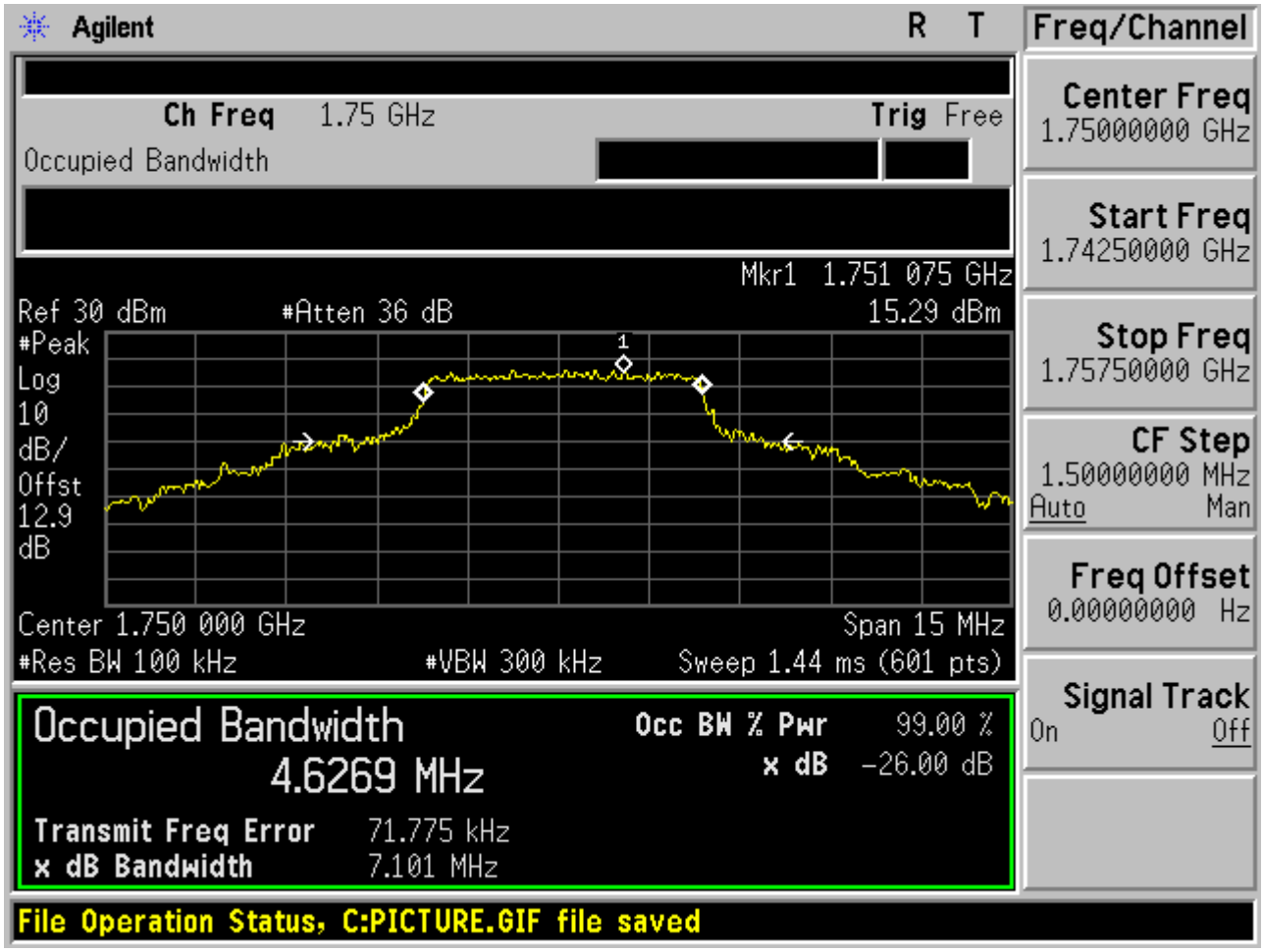
2.1.2.3.1 QPSK/1 RB#0



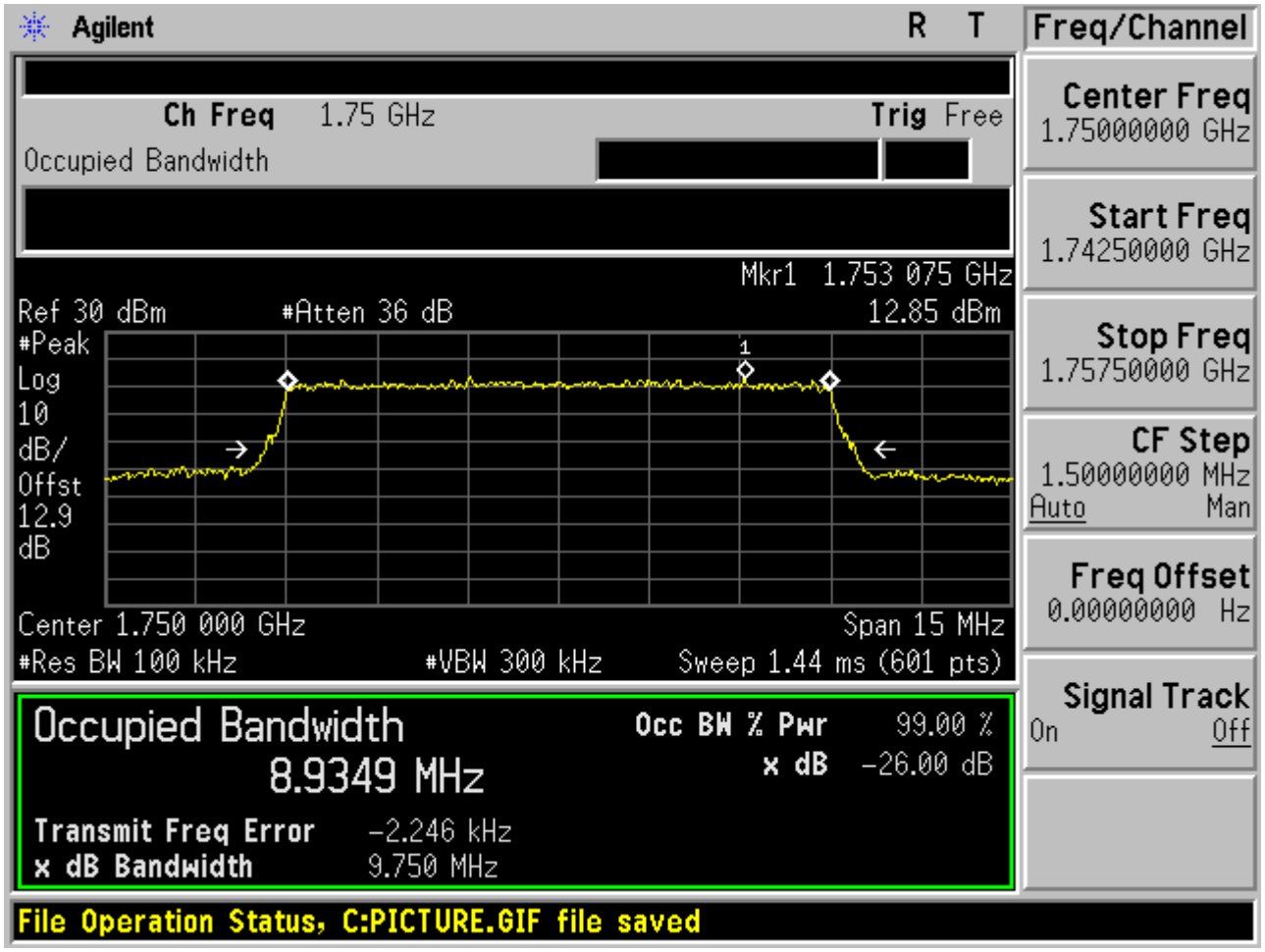
2.1.2.3.2 QPSK/1 RB#max



2.1.2.3.3 QPSK/ Partial RBs /RB #13



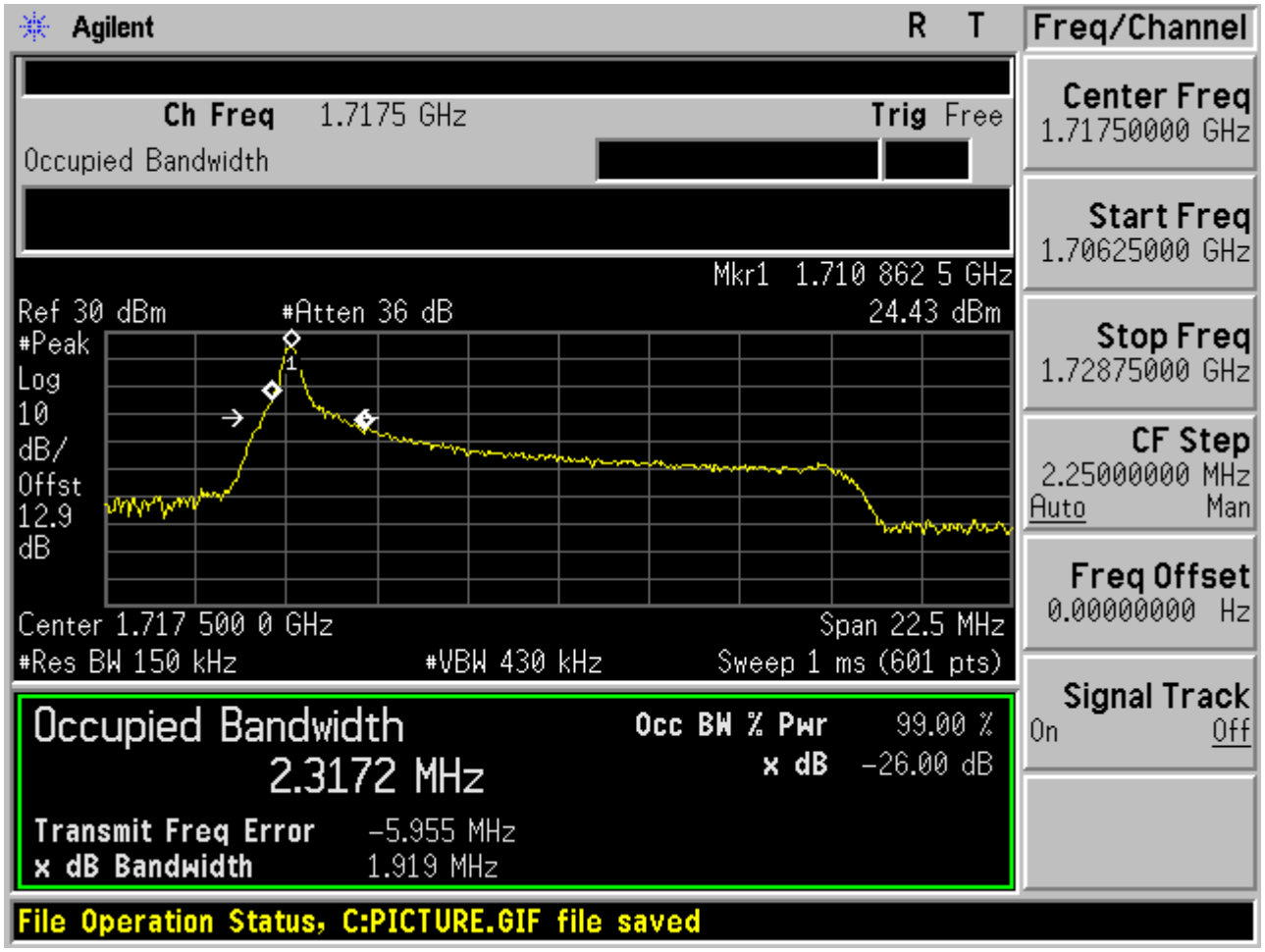
2.1.2.3.4 QPSK/full RBs


Agilent
R T
Freq/Channel
Ch Freq 1.75 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.753 075 GHz
Ref 30 dBm
#Atten 36 dB
12.85 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.750 000 GHz
Span 15 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.44 ms (601 pts)
Occupied Bandwidth
8.9349 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error -2.246 kHz
x dB Bandwidth 9.750 MHz
Center Freq
1.75000000 GHz
Start Freq
1.74250000 GHz
Stop Freq
1.75750000 GHz
CF Step
1.50000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

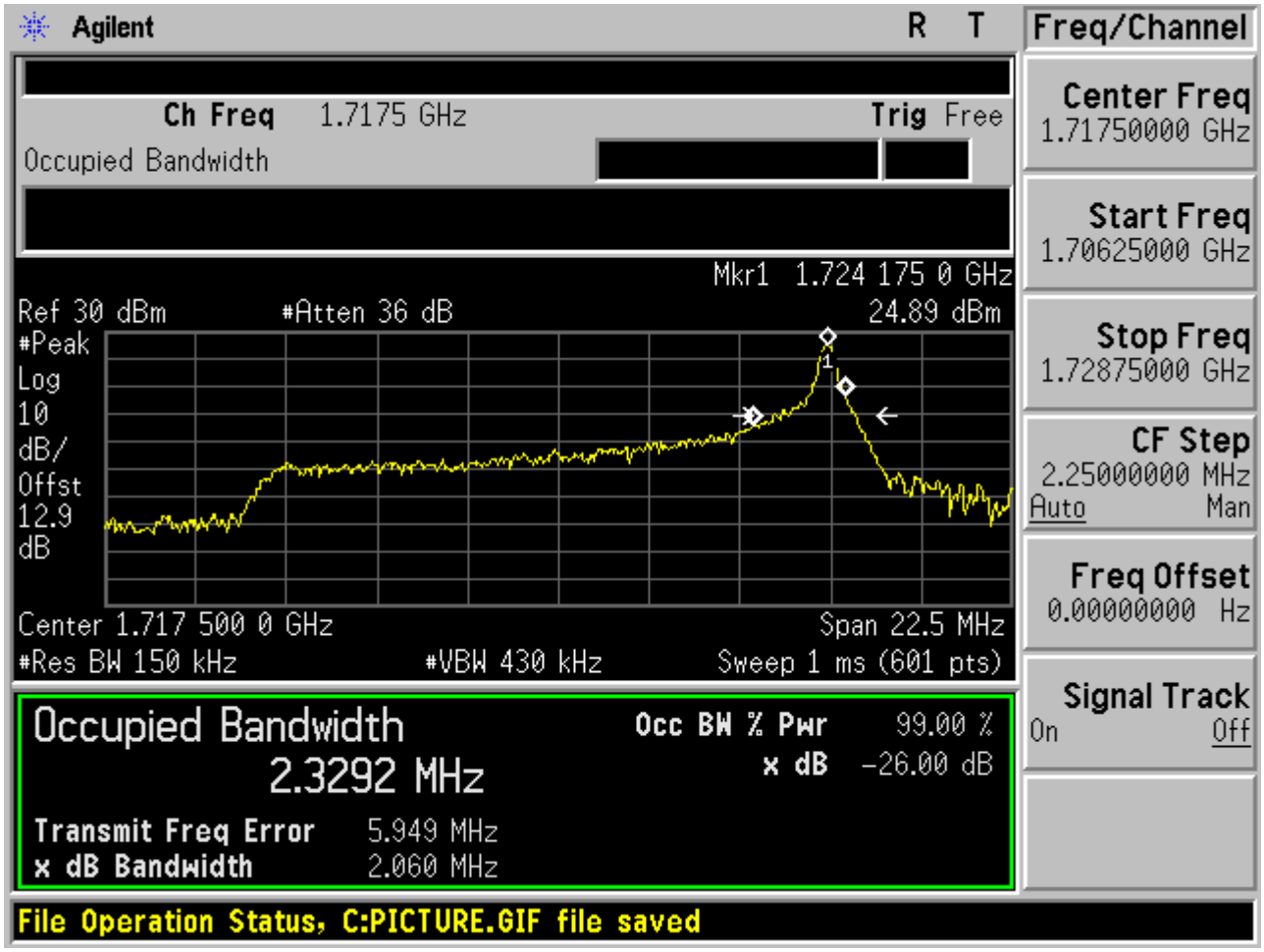
2.1.3 Channel Bandwidth = 15 MHz

2.1.3.1 Channel = B

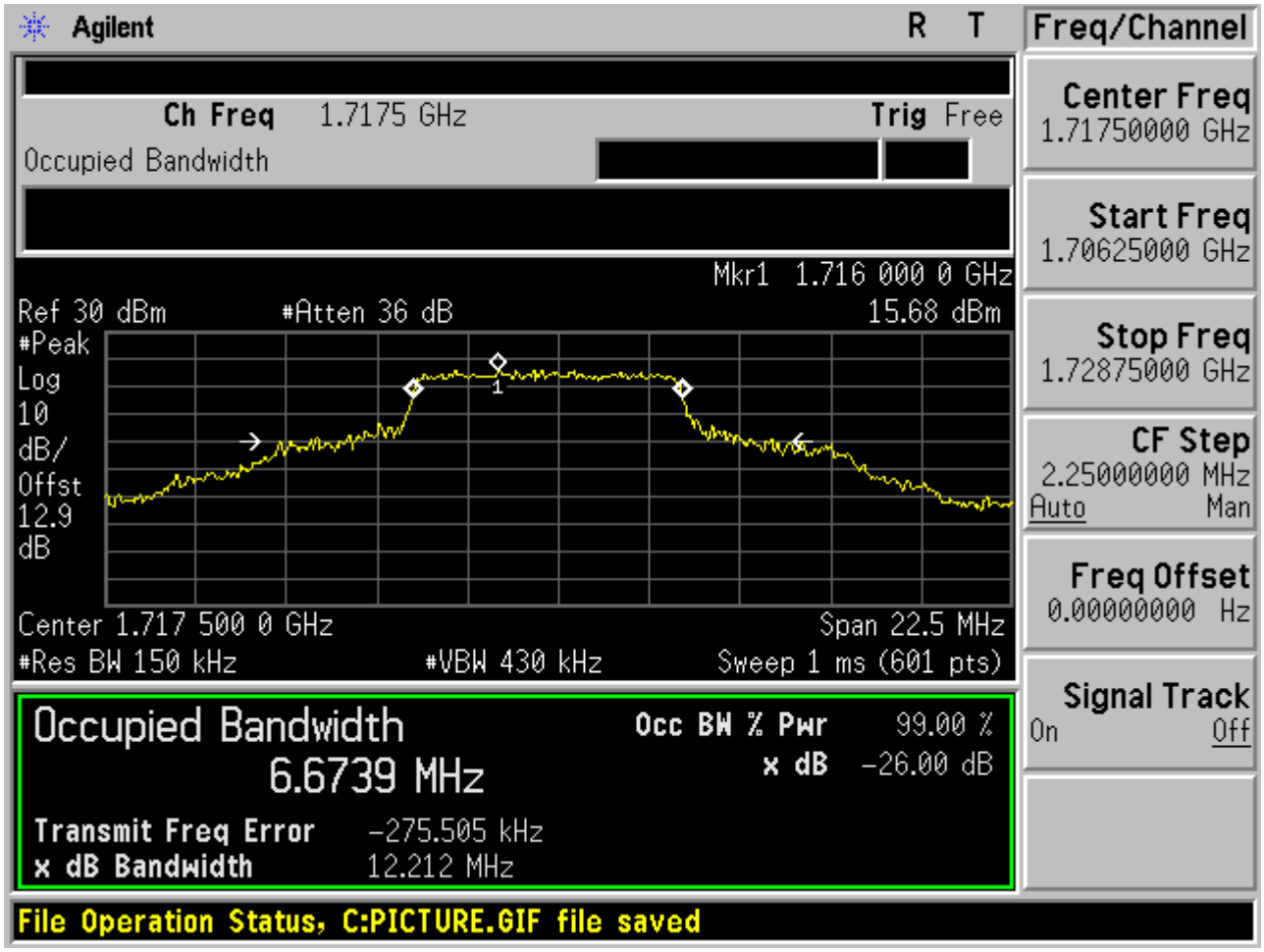
2.1.3.1.1 QPSK/1 RB#0



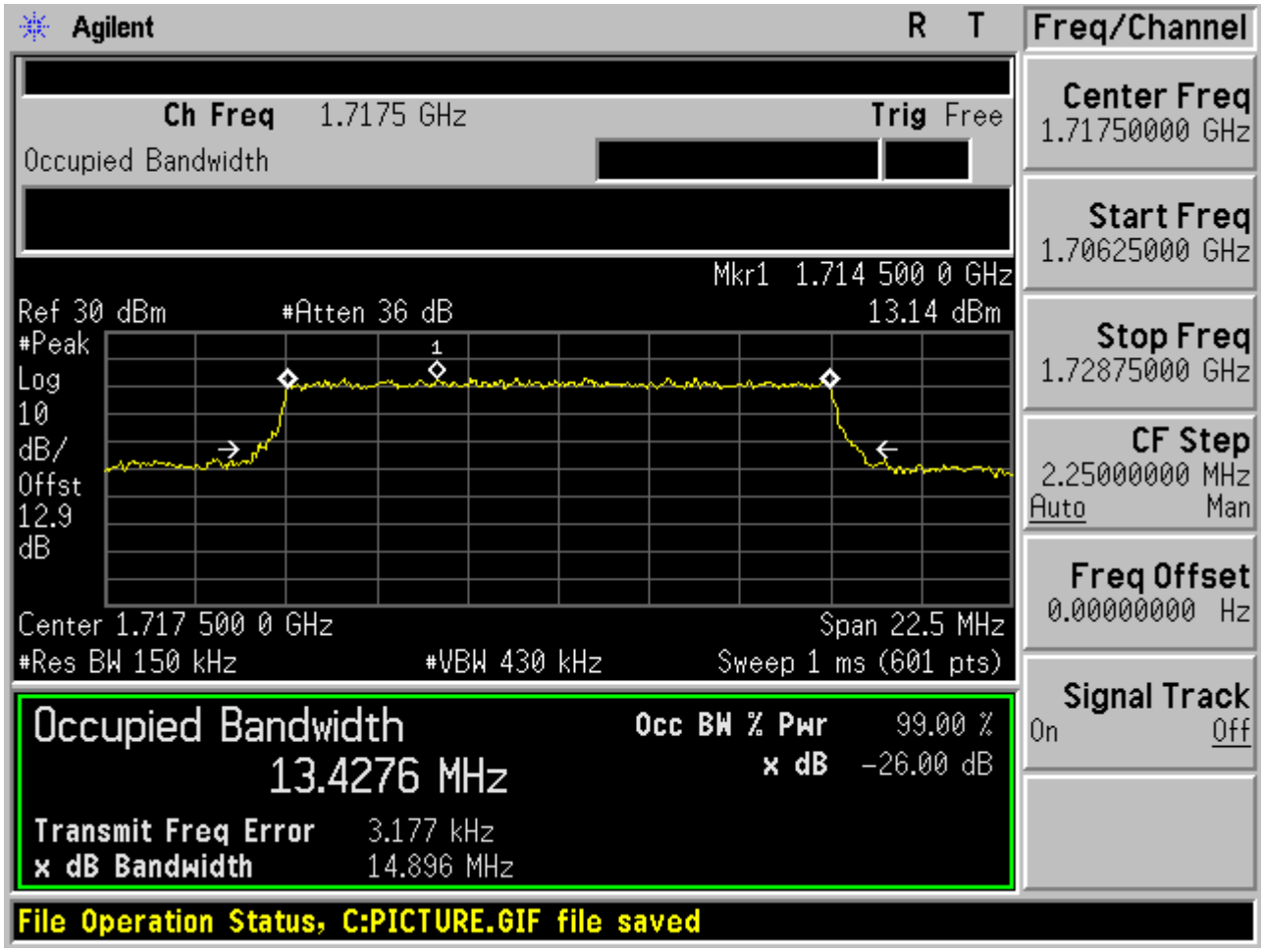
2.1.3.1.2 QPSK/1 RB#max



2.1.3.1.3 QPSK/ Partial RBs /RB #18

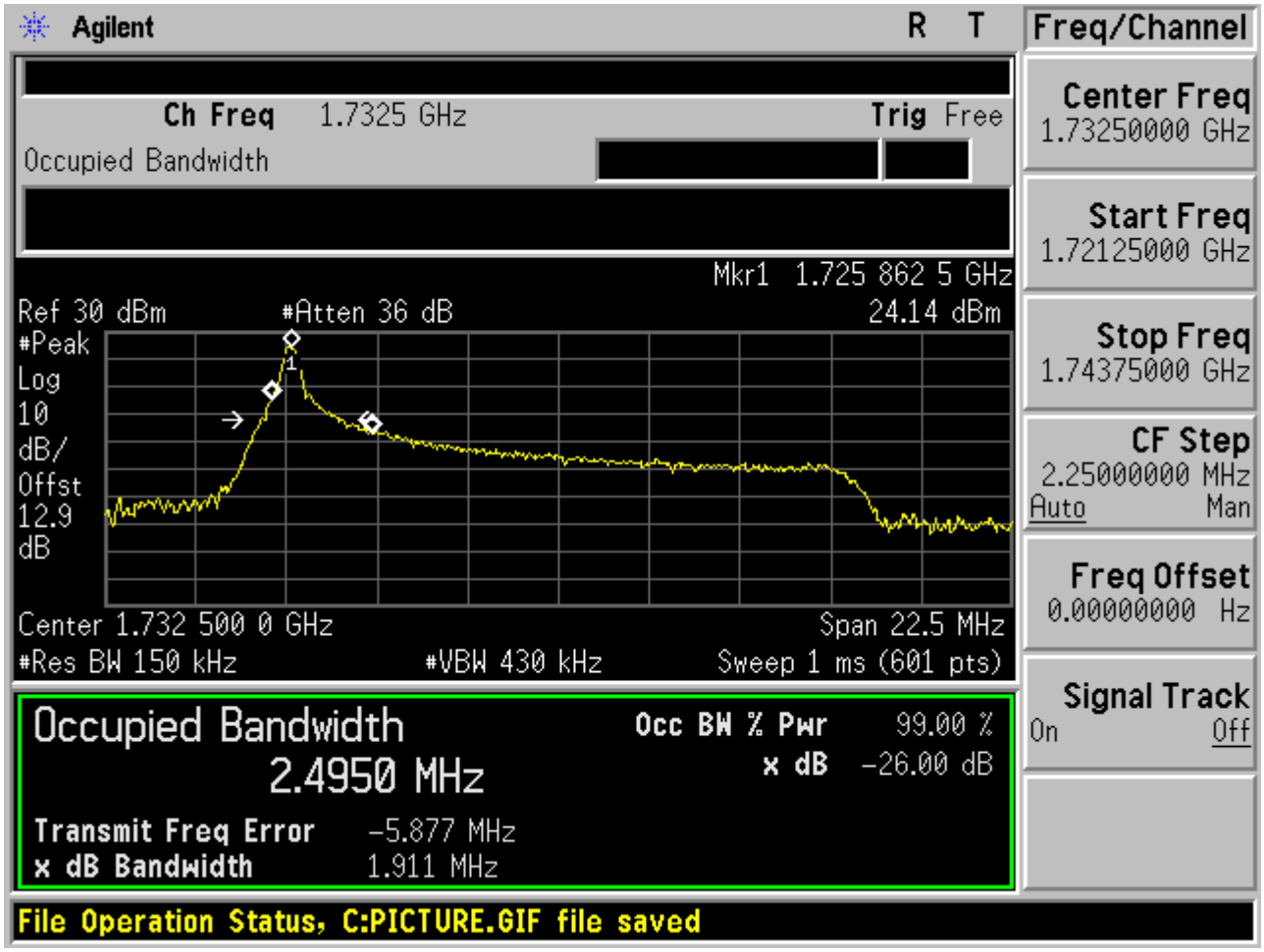


2.1.3.1.4 QPSK/full RBs

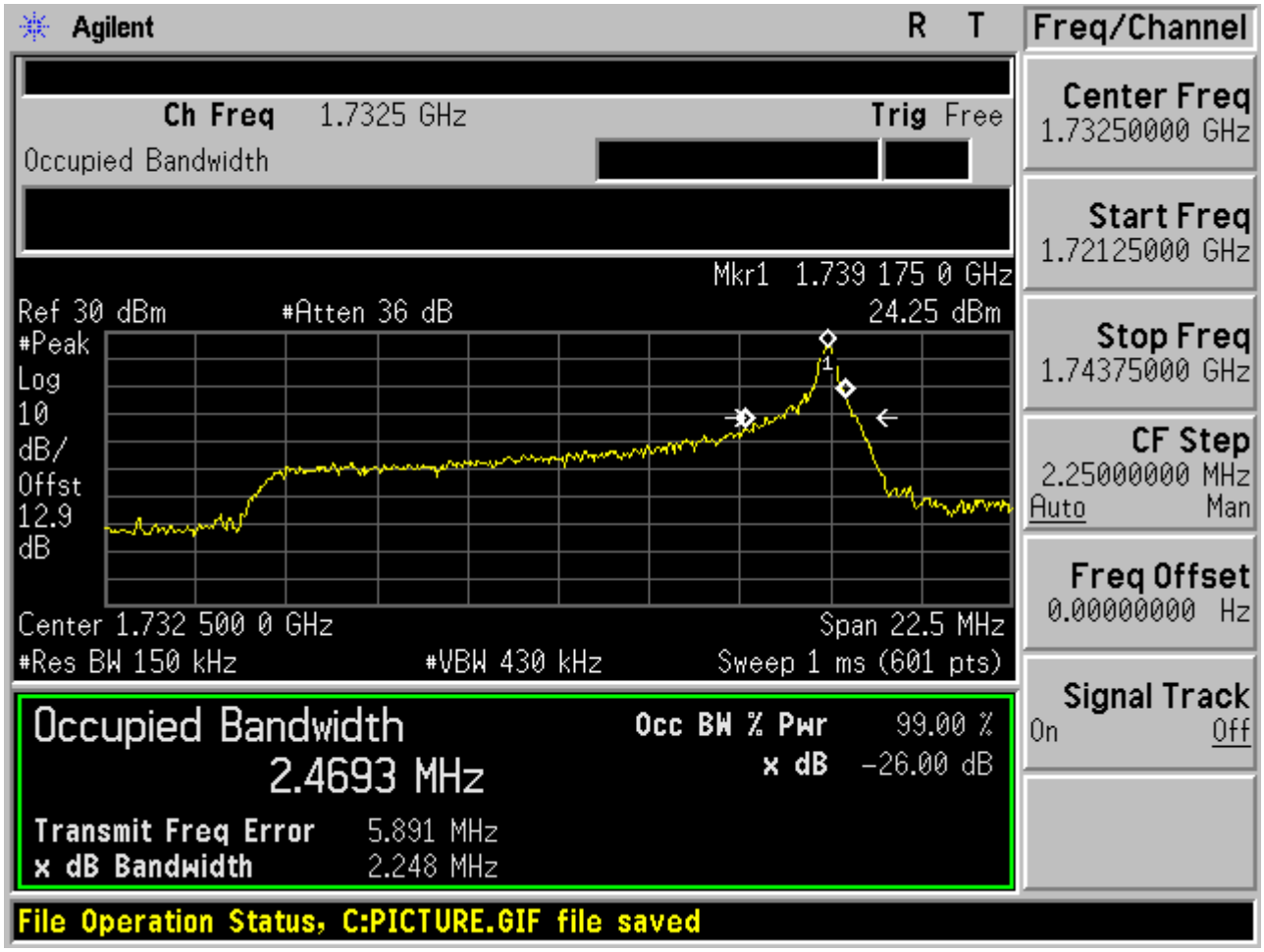


2.1.3.2 Channel = M

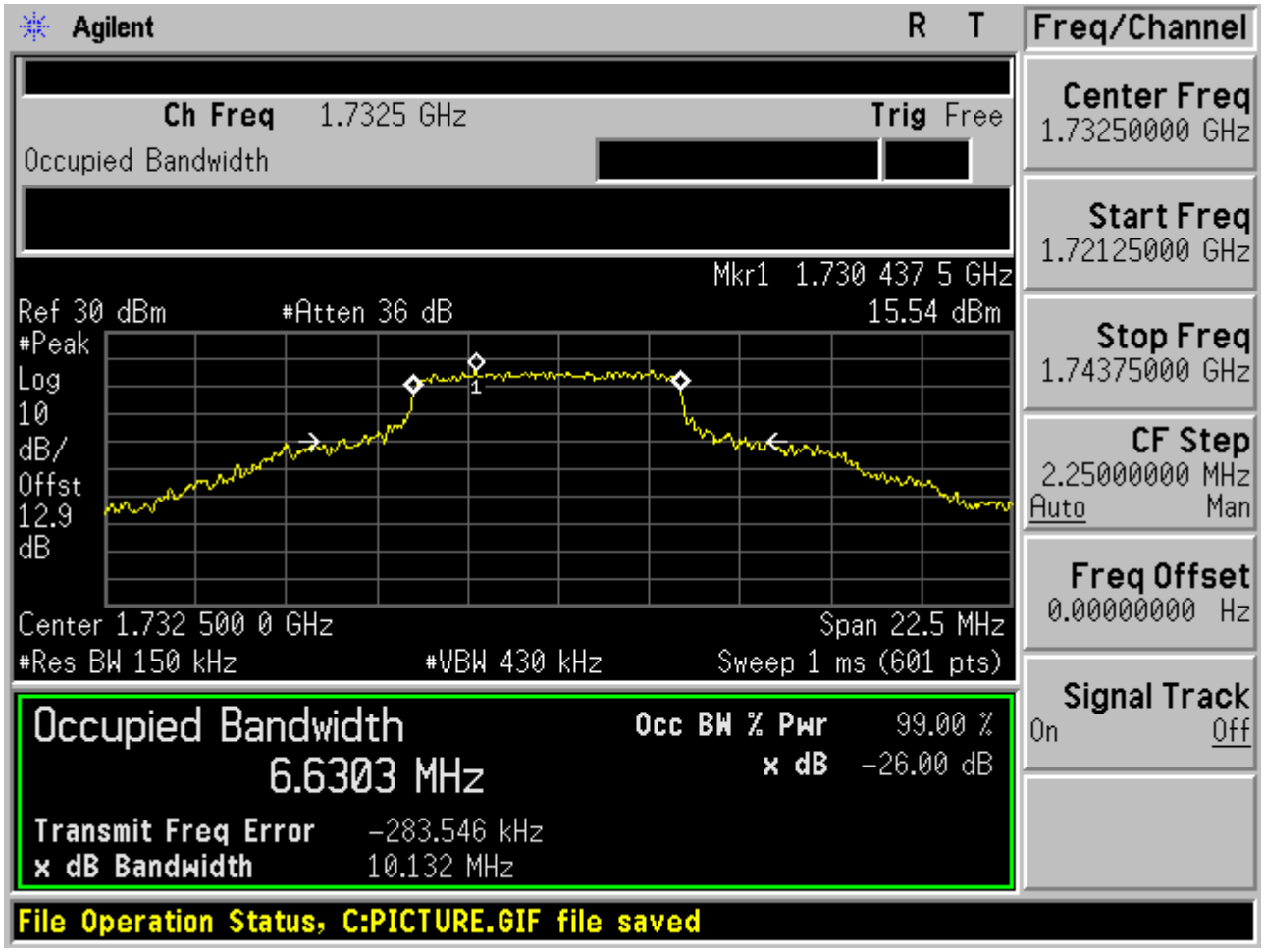
2.1.3.2.1 QPSK/1 RB#0



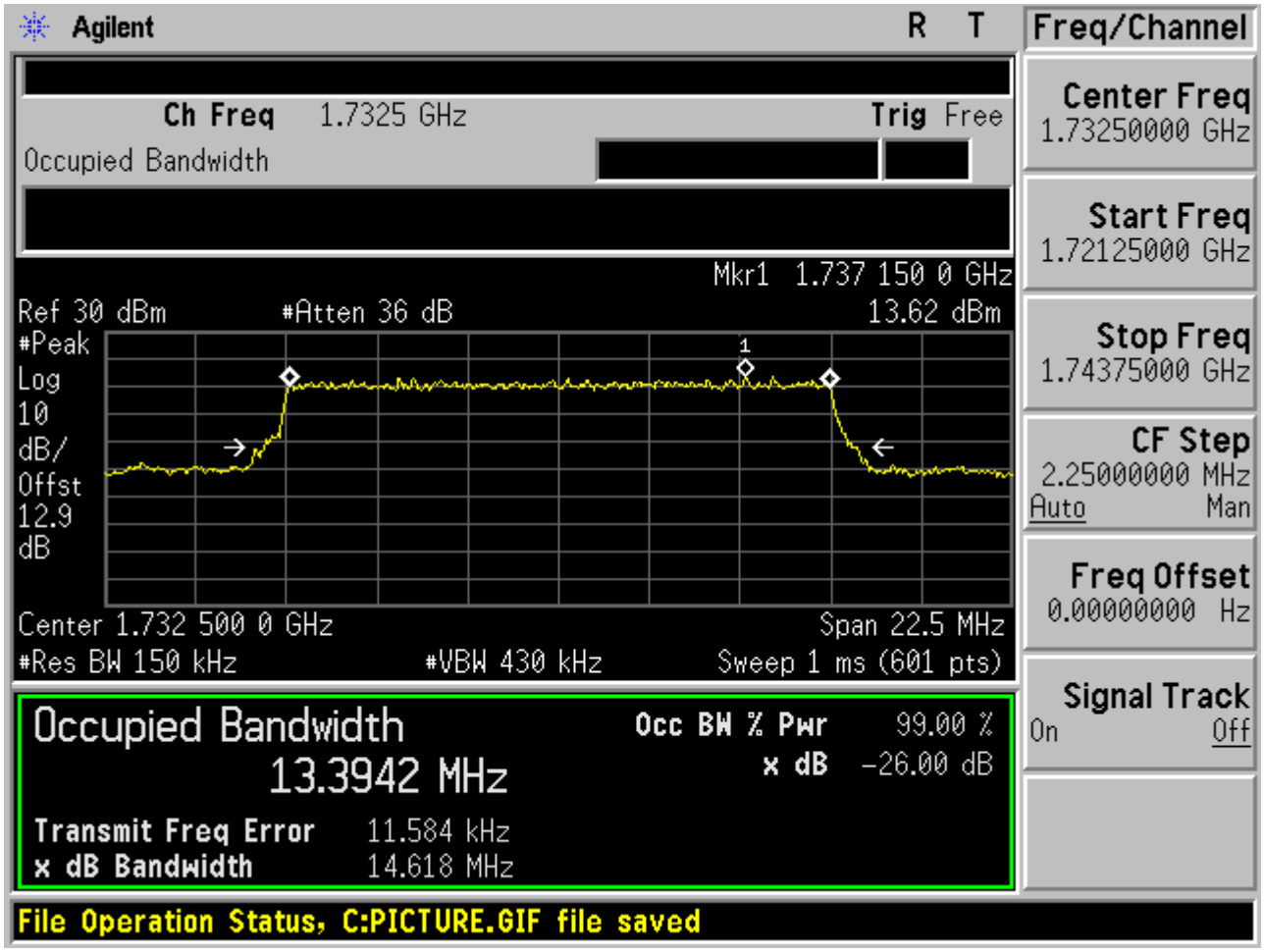
2.1.3.2.2 QPSK/1 RB#max



2.1.3.2.3 QPSK/ Partial RBs /RB #18

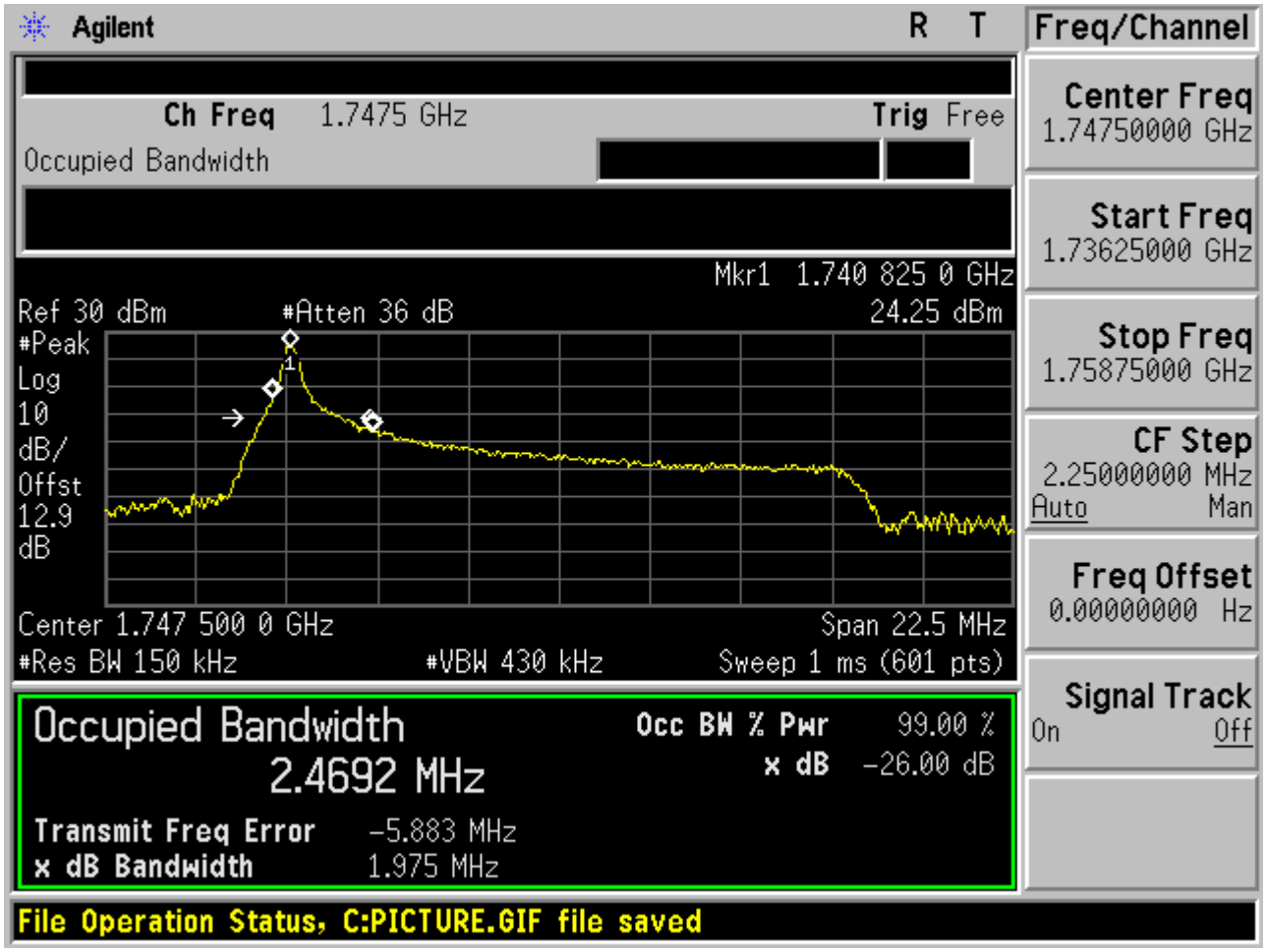


2.1.3.2.4 QPSK/full RBs

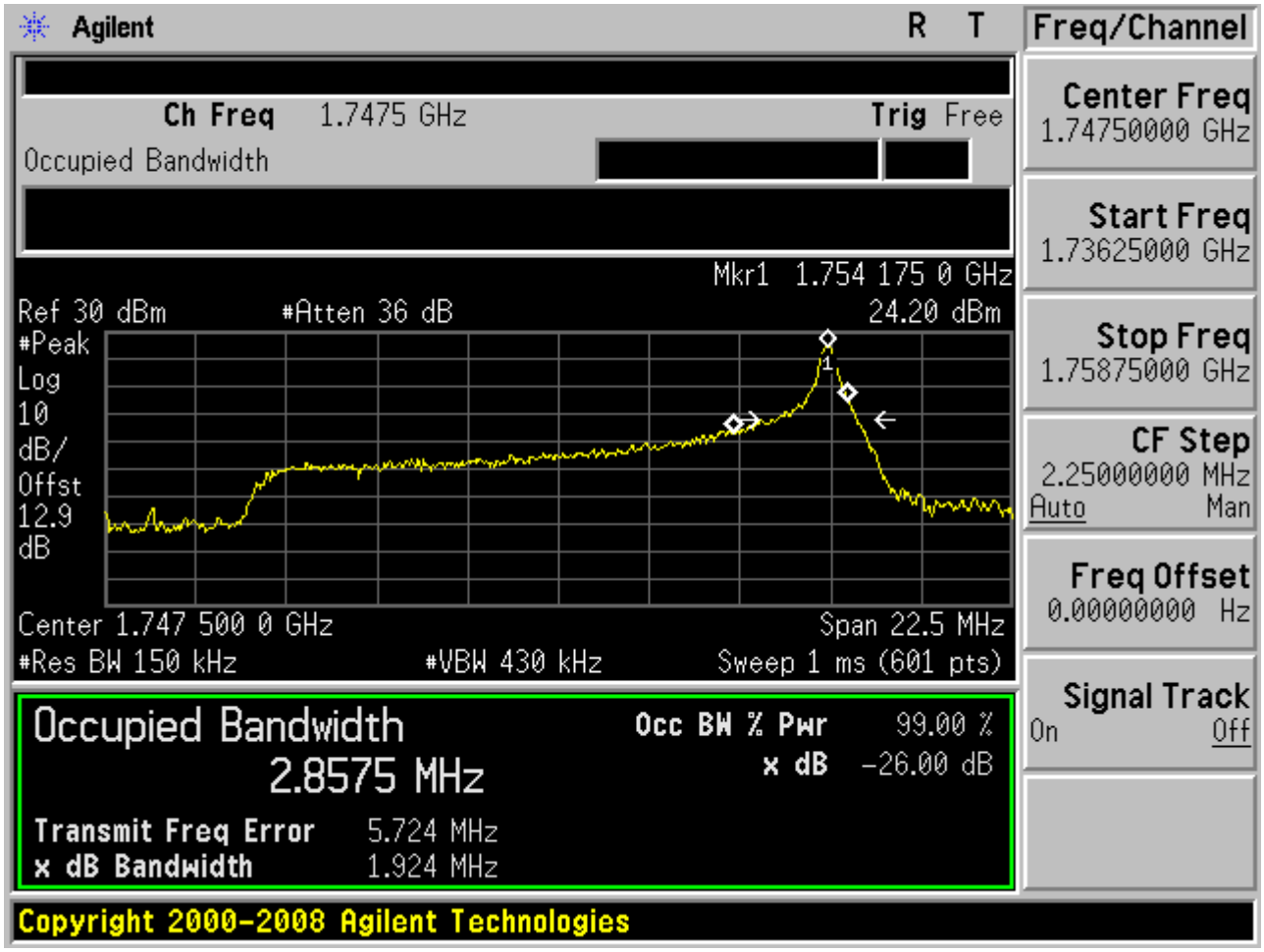

Agilent
R T
Freq/Channel
Ch Freq 1.7325 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.737 150 0 GHz
Ref 30 dBm
#Atten 36 dB
13.62 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.732 500 0 GHz
Span 22.5 MHz
#Res BW 150 kHz
#VBW 430 kHz
Sweep 1 ms (601 pts)
Occupied Bandwidth
13.3942 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 11.584 kHz
x dB Bandwidth 14.618 MHz
File Operation Status, C:PICTURE.GIF file saved
Center Freq
1.73250000 GHz
Start Freq
1.72125000 GHz
Stop Freq
1.74375000 GHz
CF Step
2.25000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

2.1.3.3 Channel =T

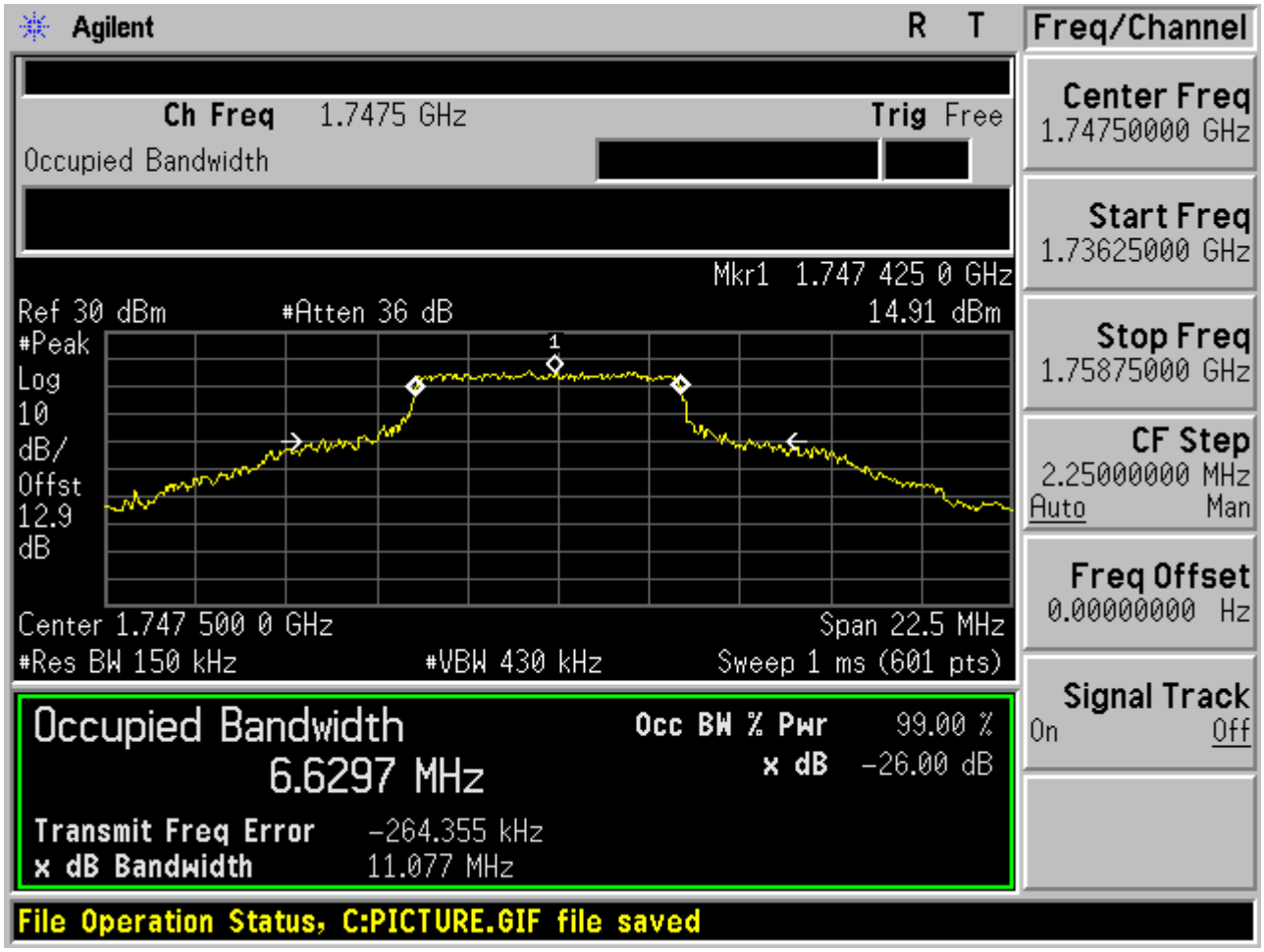
2.1.3.3.1 QPSK/1 RB#0



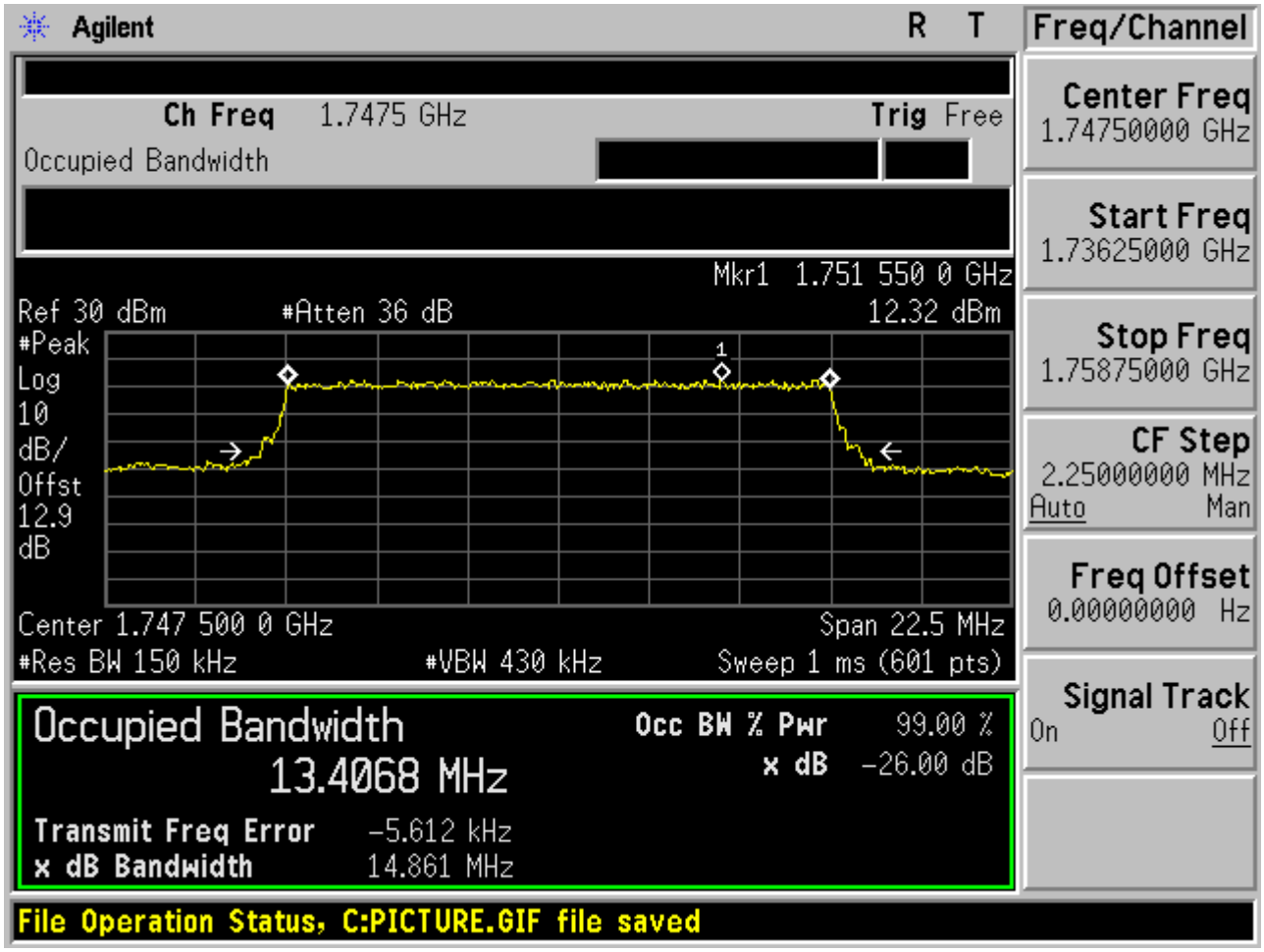
2.1.3.3.2 QPSK/1 RB#max



2.1.3.3.3 QPSK/ Partial RBs /RB #18



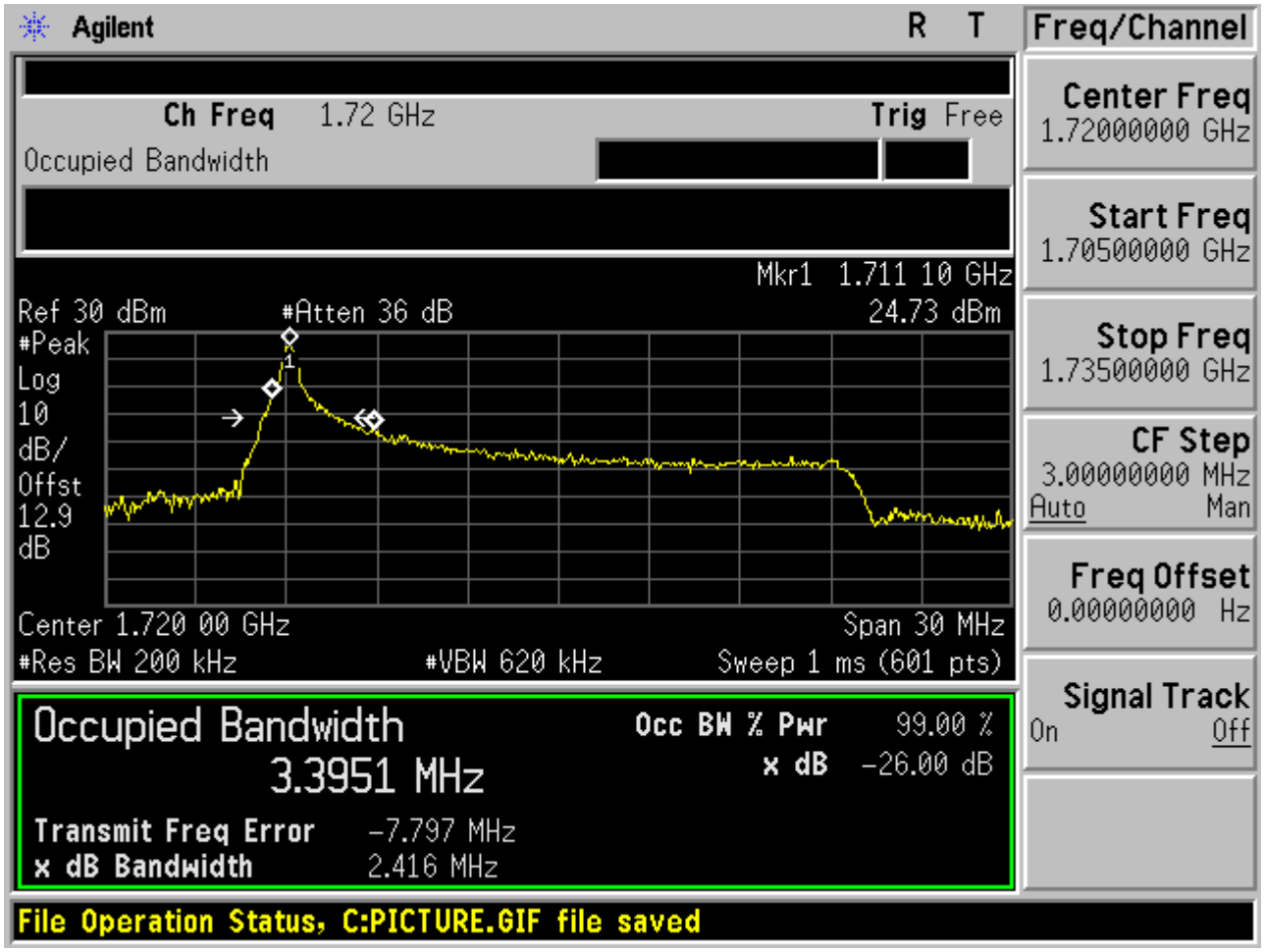
2.1.3.3.4 QPSK/full RBs


Agilent
R T
Freq/Channel
Ch Freq 1.7475 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.751 550 0 GHz
Ref 30 dBm
#Atten 36 dB
12.32 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.747 500 0 GHz
Span 22.5 MHz
#Res BW 150 kHz
#VBW 430 kHz
Sweep 1 ms (601 pts)
Occupied Bandwidth
13.4068 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error -5.612 kHz
x dB Bandwidth 14.861 MHz
Center Freq
1.74750000 GHz
Start Freq
1.73625000 GHz
Stop Freq
1.75875000 GHz
CF Step
2.25000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

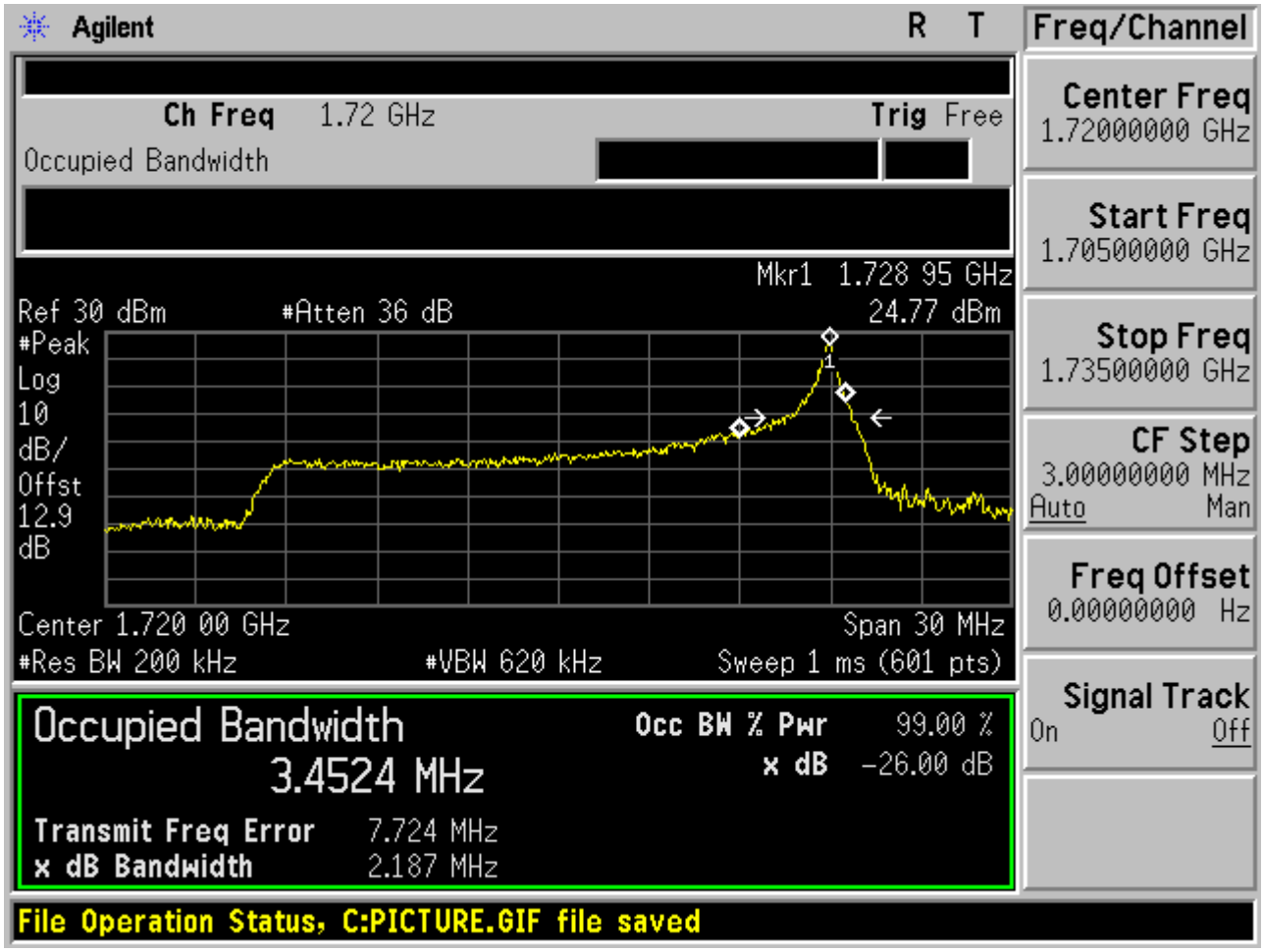
2.1.4 Channel Bandwidth = Highest (20 MHz)

2.1.4.1 Channel = B

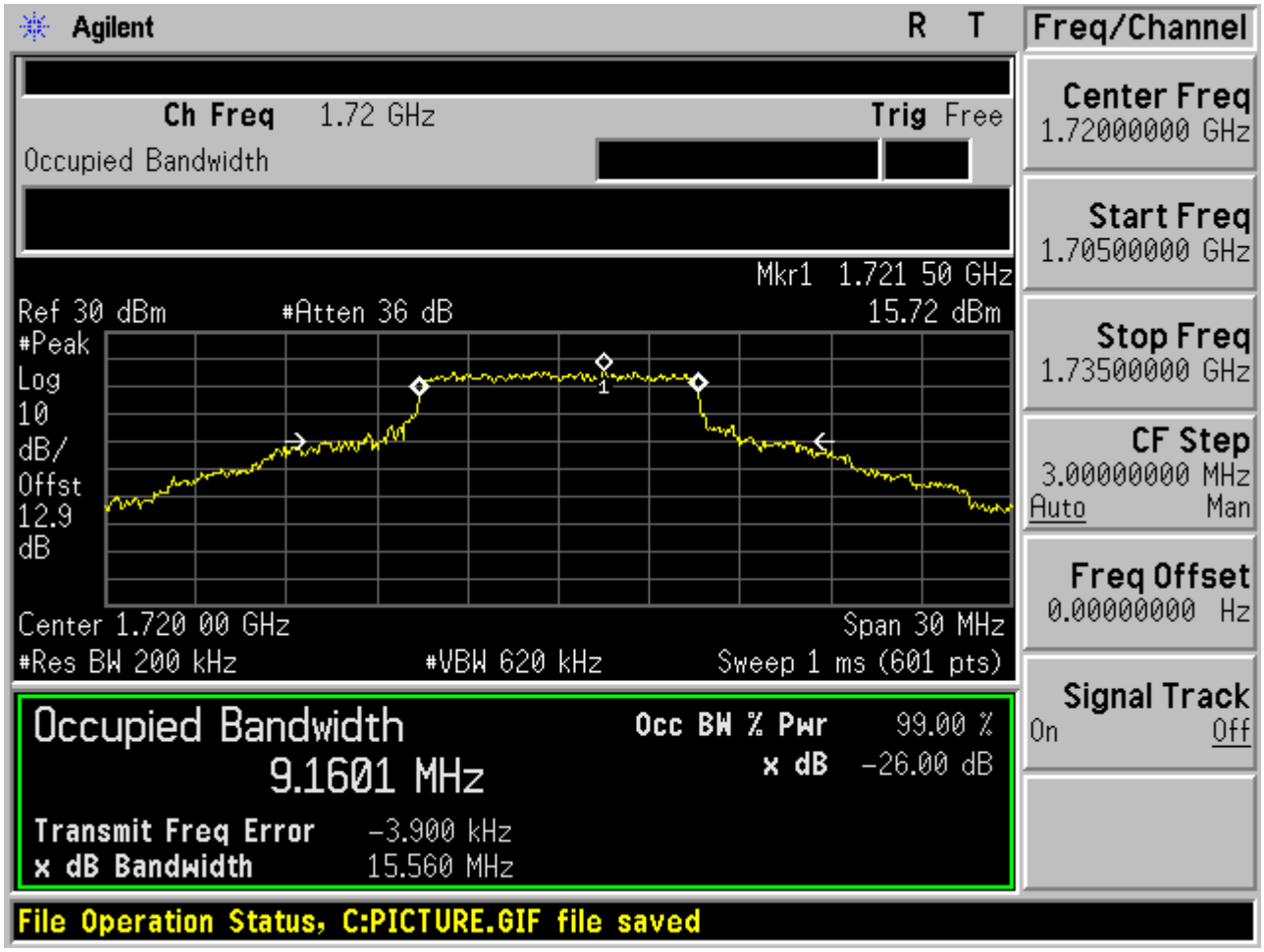
2.1.4.1.1 QPSK/1 RB#0



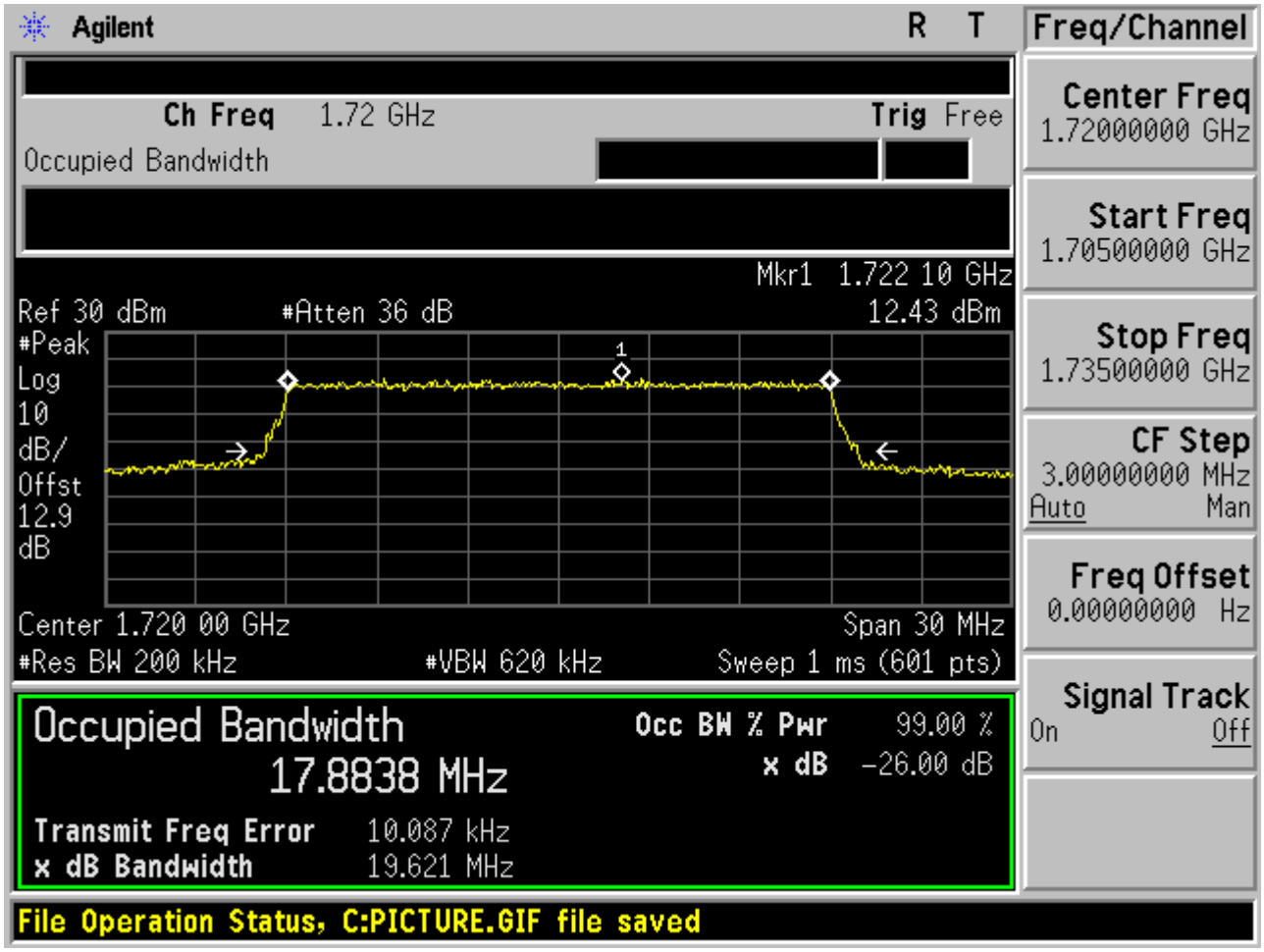
2.1.4.1.2 QPSK/1 RB#max



2.1.4.1.3 QPSK/ Partial RBs /RB #25

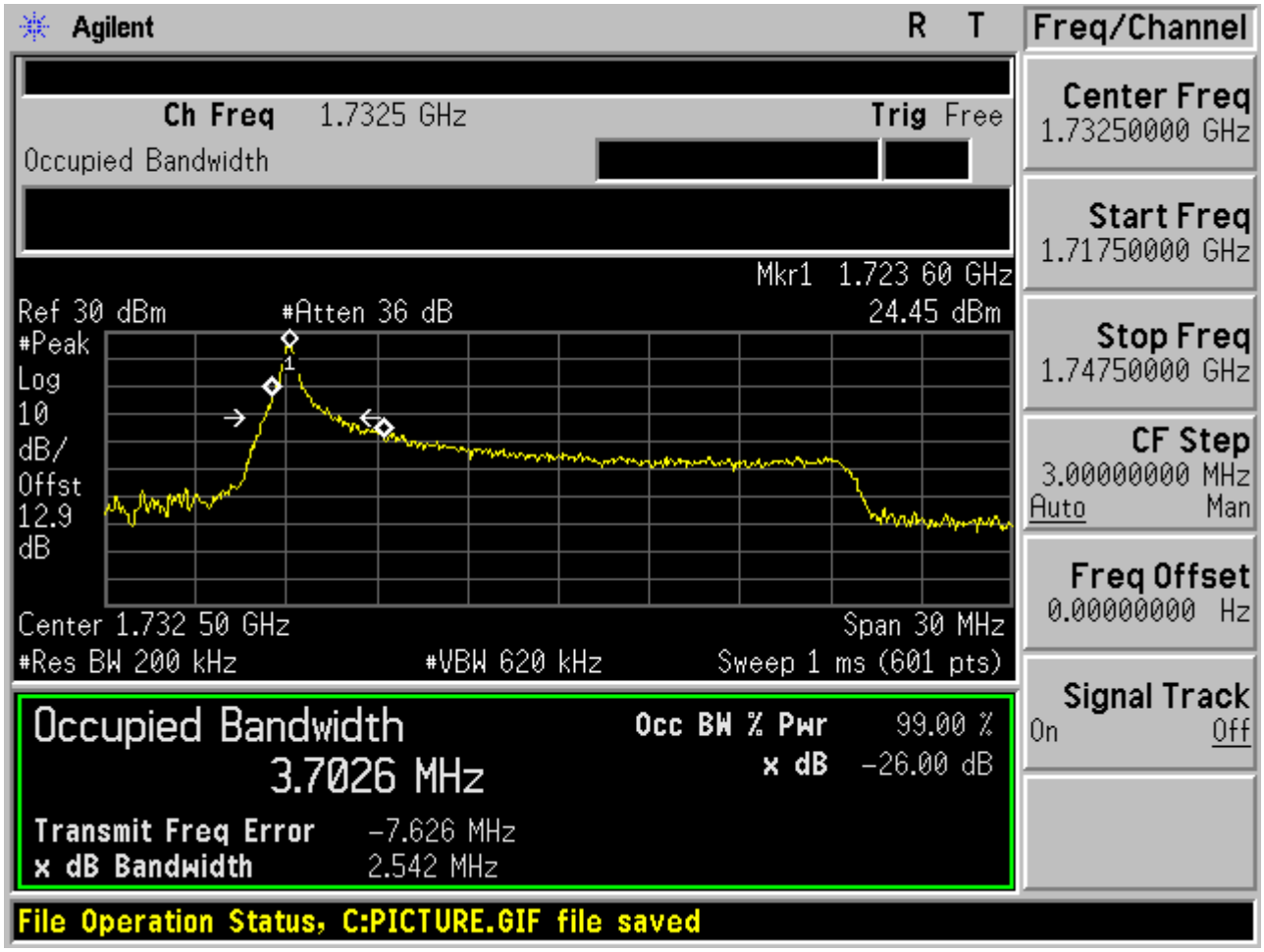


2.1.4.1.4 QPSK/full RBs

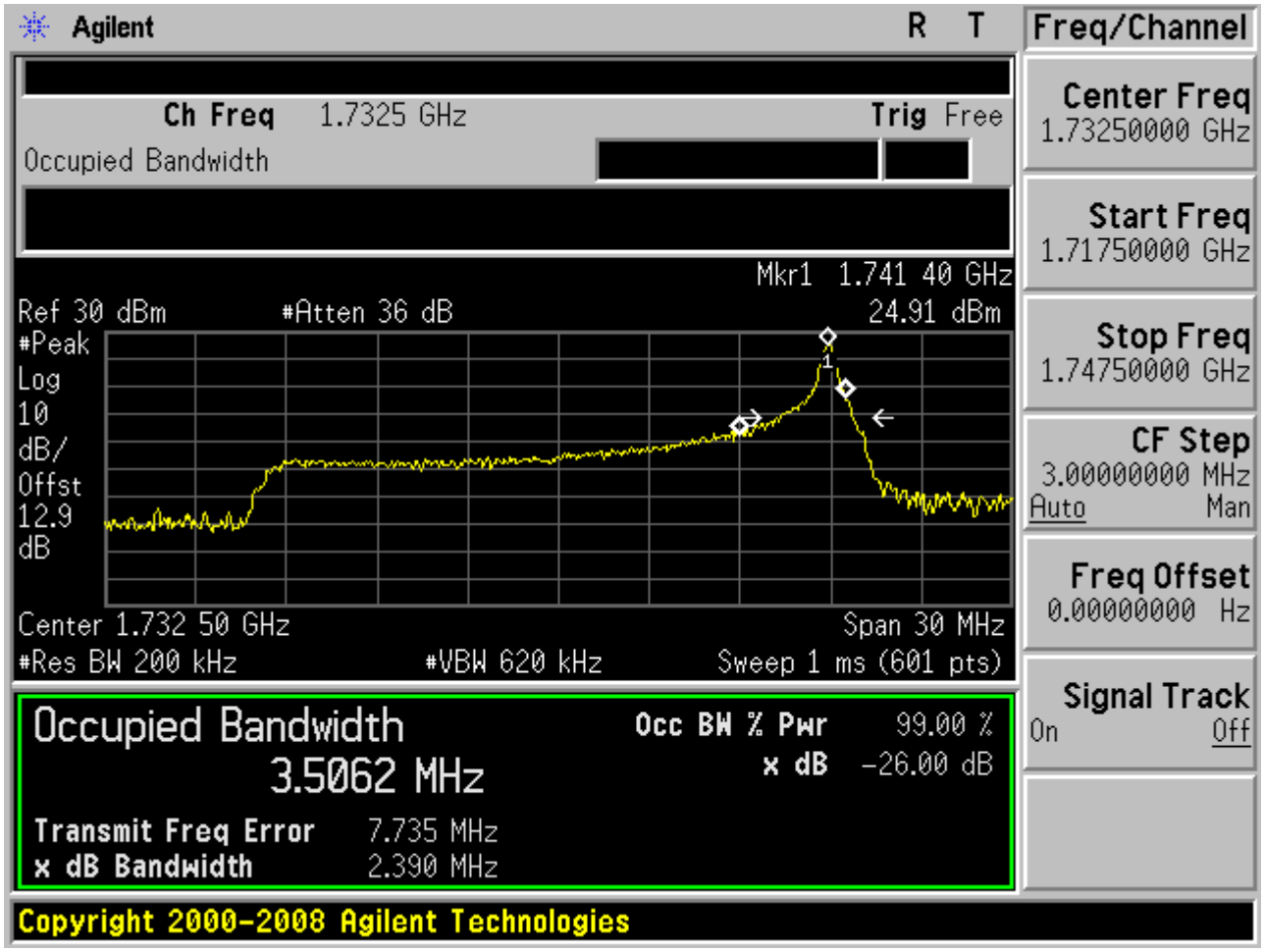


2.1.4.2 Channel = M

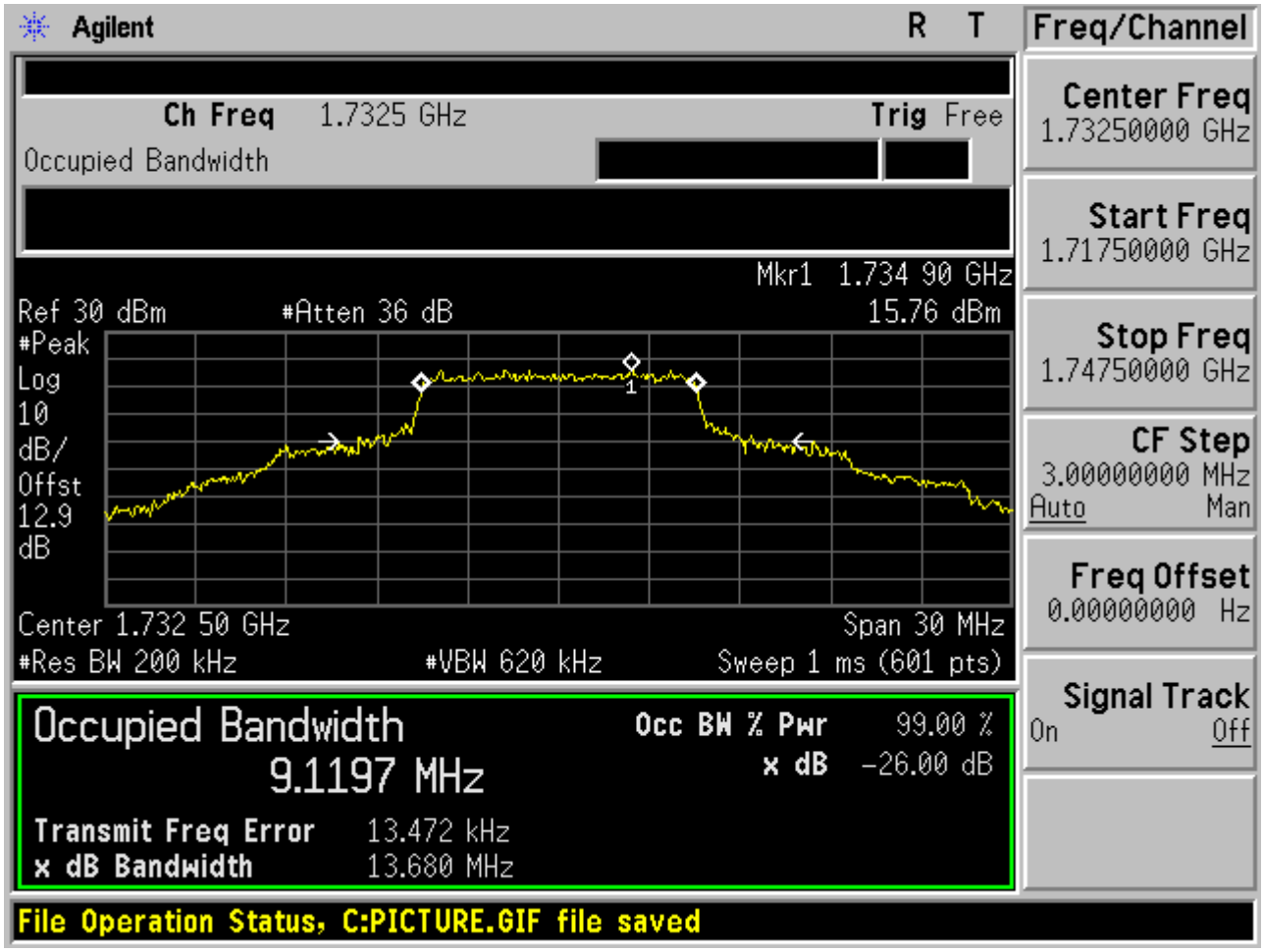
2.1.4.2.1 QPSK/1 RB#0



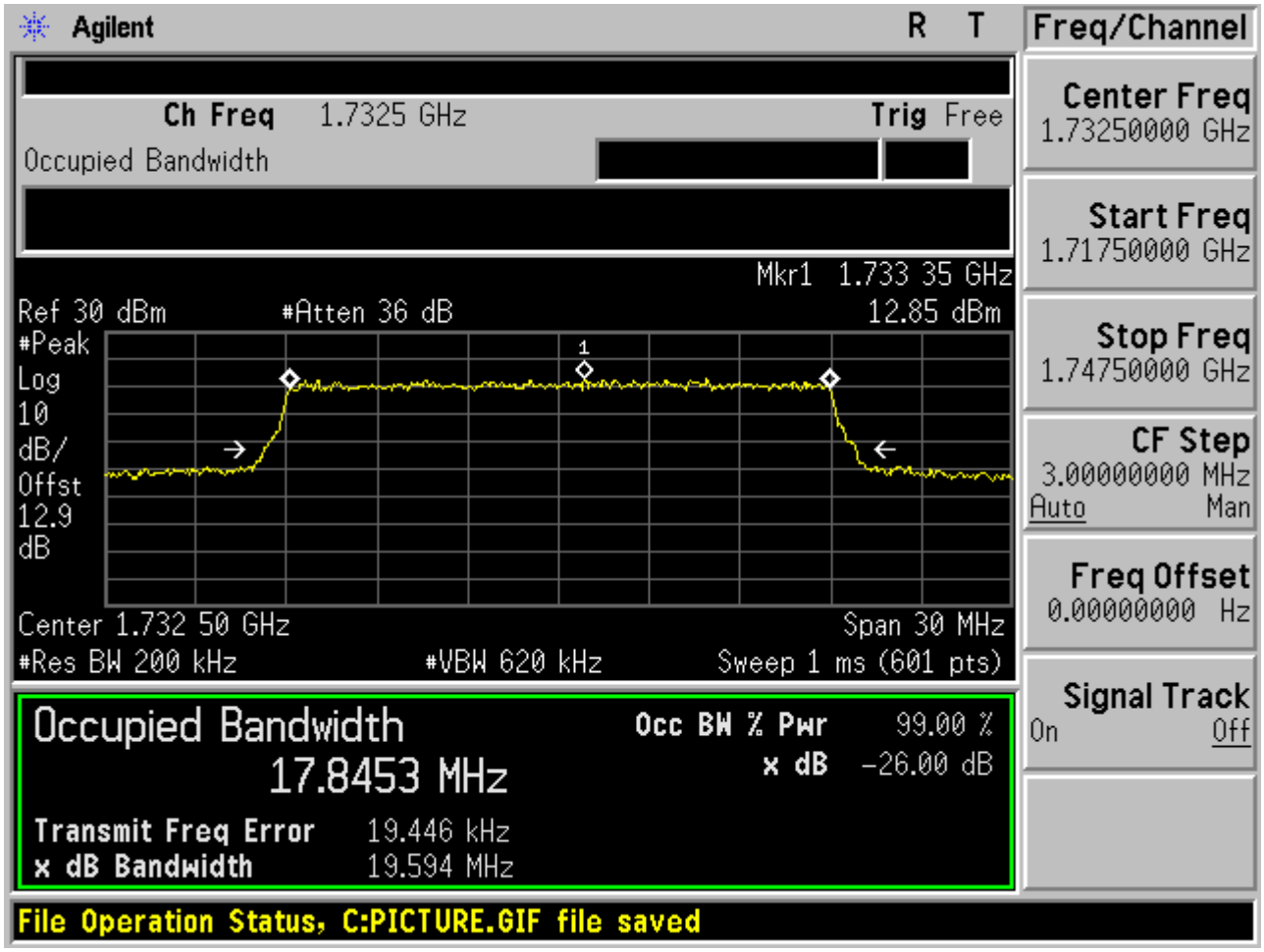
2.1.4.2.2 QPSK/1 RB#max



2.1.4.2.3 QPSK/ Partial RBs /RB #25

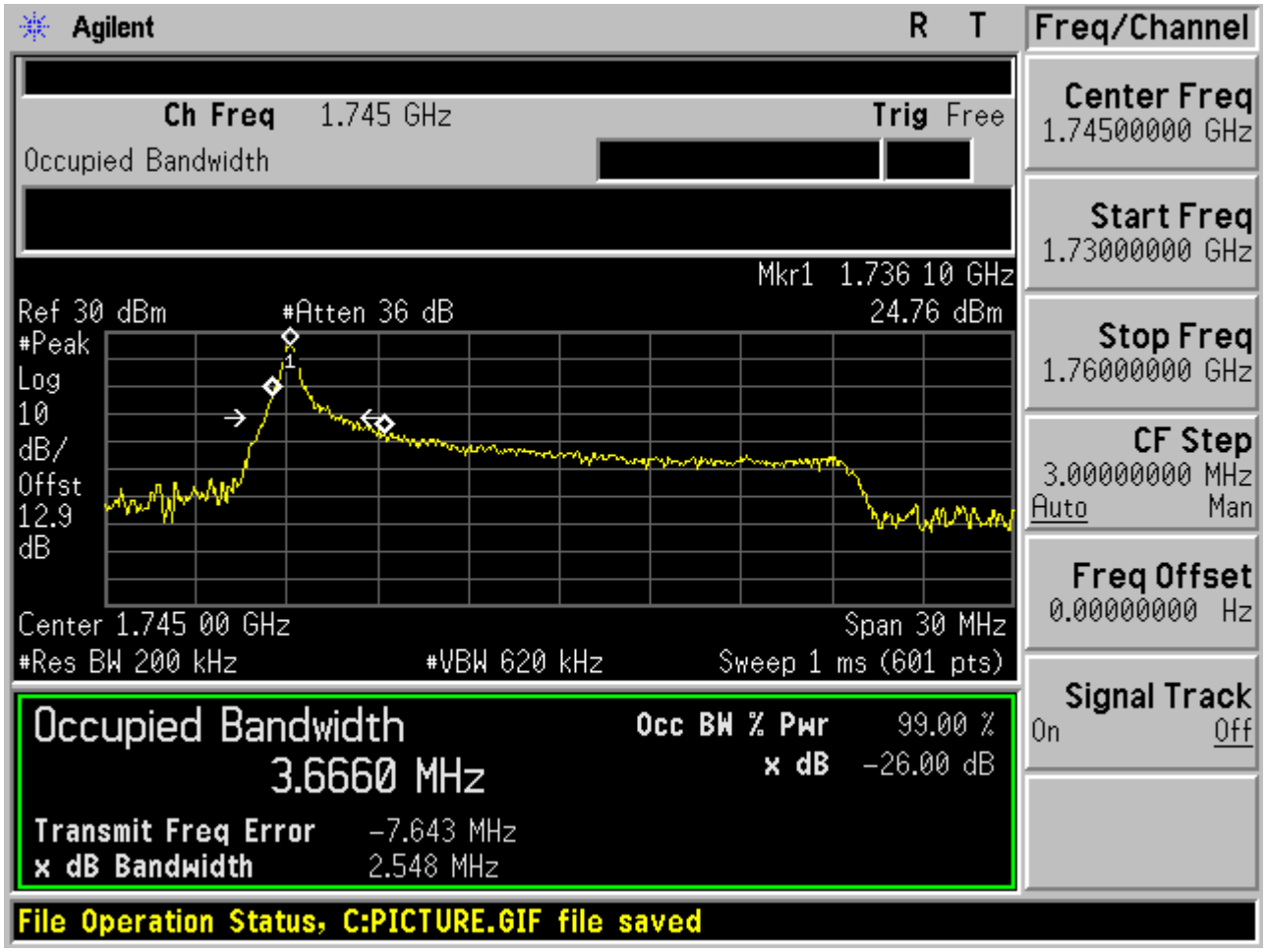


2.1.4.2.4 QPSK/full RBs

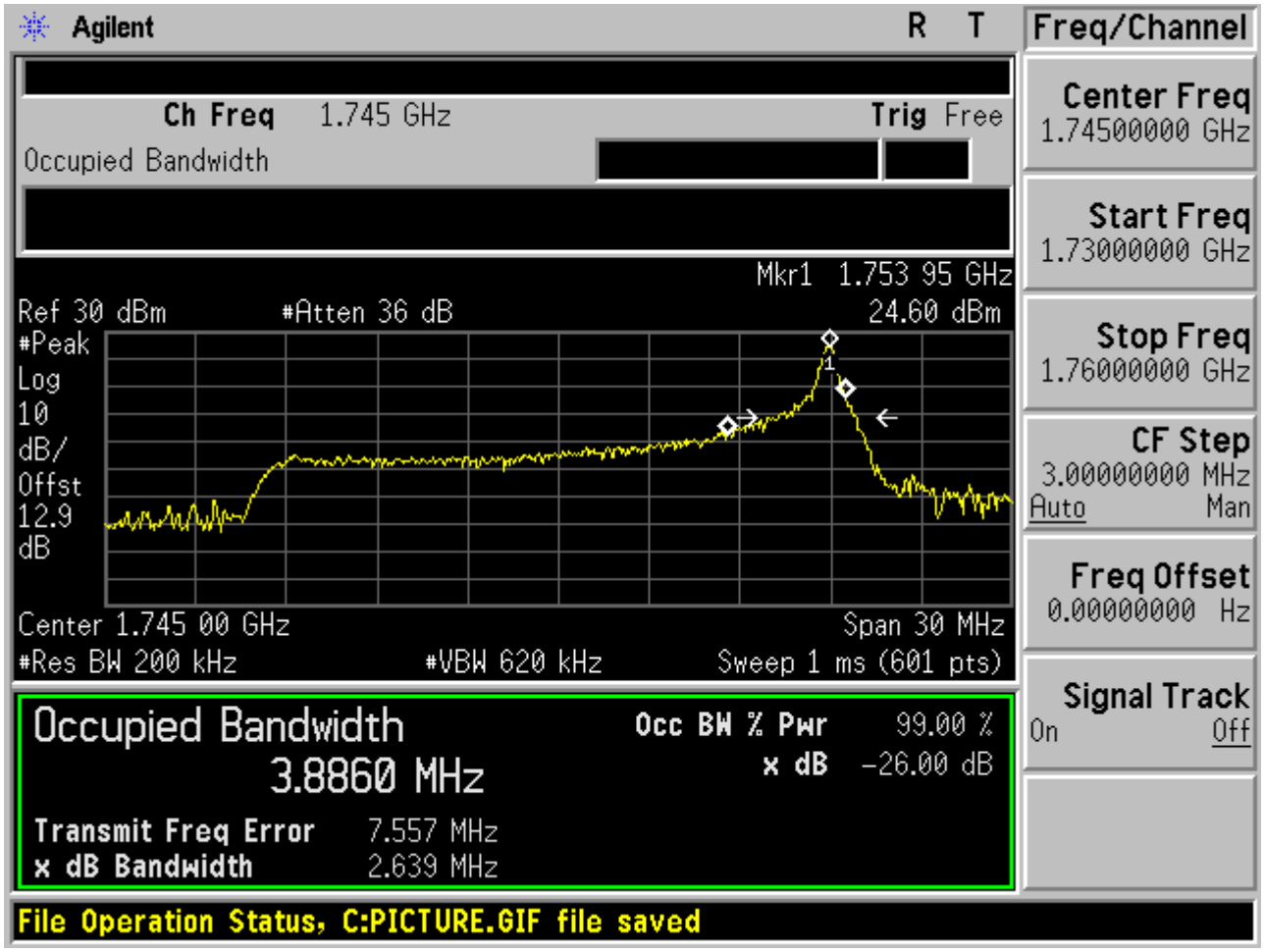

Agilent
R T
Freq/Channel
Ch Freq 1.7325 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.733 35 GHz
Ref 30 dBm
#Atten 36 dB
12.85 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.732 50 GHz
Span 30 MHz
#Res BW 200 kHz
#VBW 620 kHz
Sweep 1 ms (601 pts)
Occupied Bandwidth
17.8453 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 19.446 kHz
x dB Bandwidth 19.594 MHz
Center Freq
1.73250000 GHz
Start Freq
1.71750000 GHz
Stop Freq
1.74750000 GHz
CF Step
3.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

2.1.4.3 Channel =T

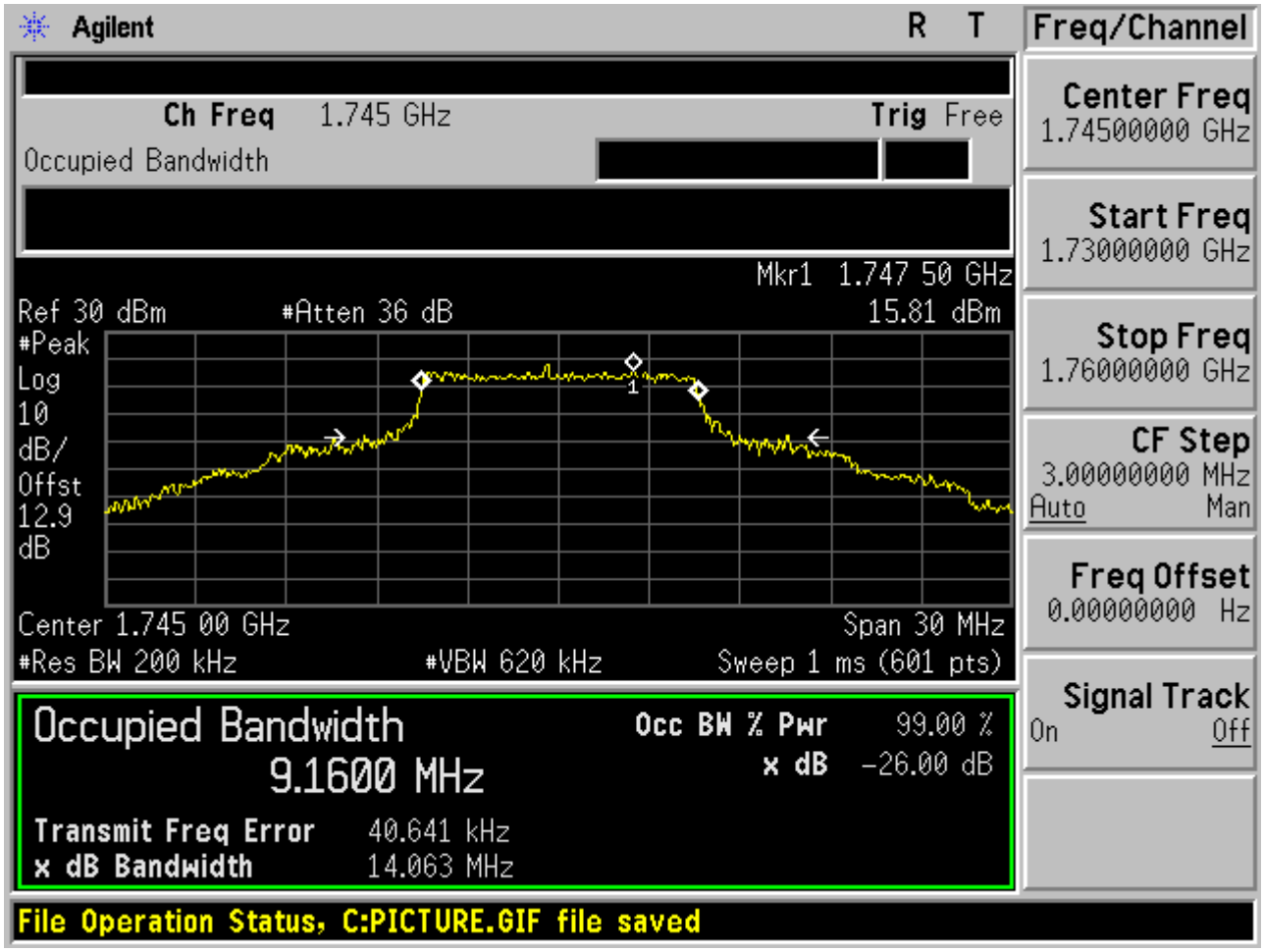
2.1.4.3.1 QPSK/1 RB#0



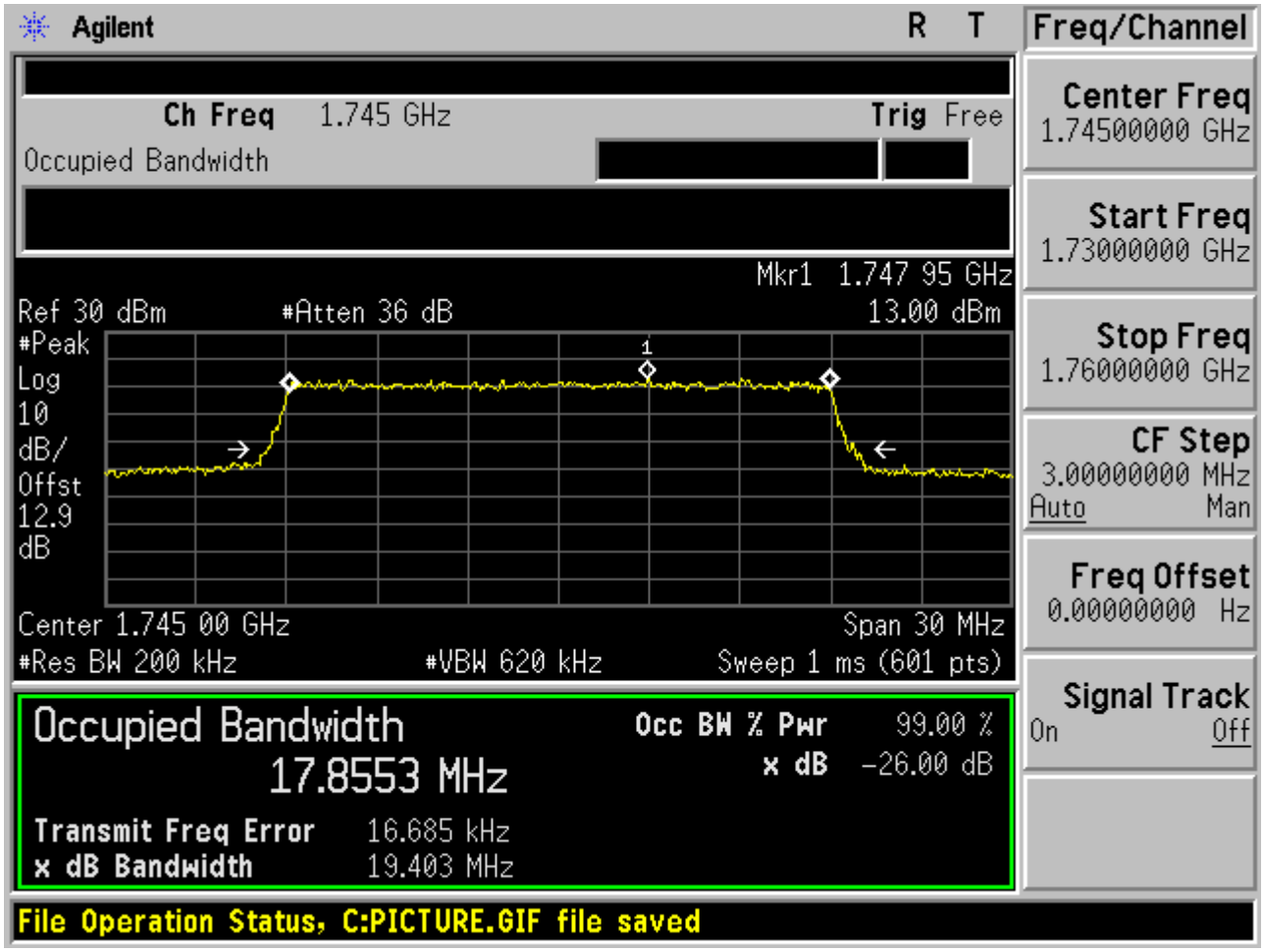
2.1.4.3.2 QPSK/1 RB#max



2.1.4.3.3 QPSK/ Partial RBs /RB #25



2.1.4.3.4 QPSK/full RBs

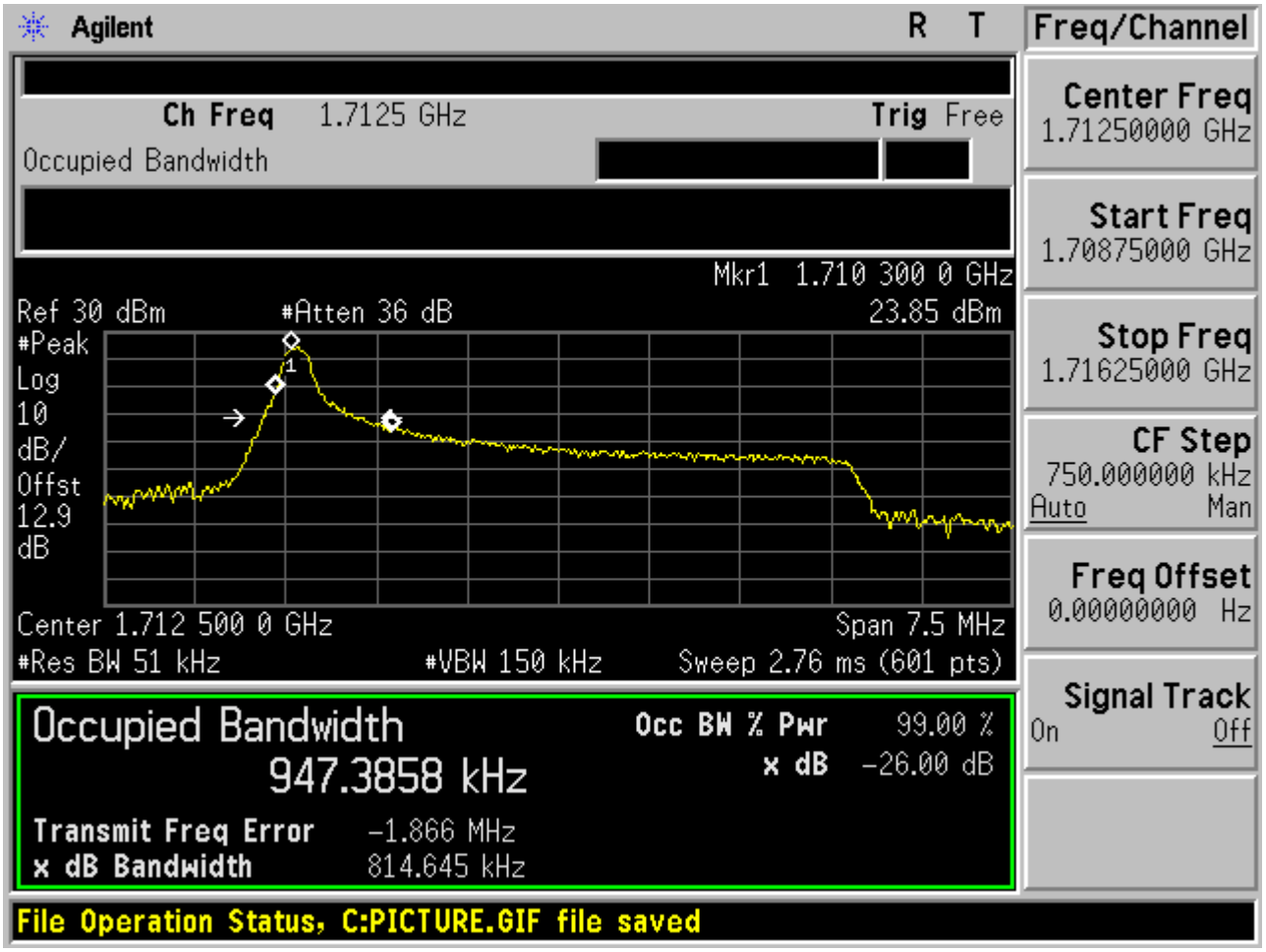

Agilent
R T
Freq/Channel
Ch Freq 1.745 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.747 95 GHz
Ref 30 dBm
#Atten 36 dB
13.00 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.745 00 GHz
Span 30 MHz
#Res BW 200 kHz
#VBW 620 kHz
Sweep 1 ms (601 pts)
Occupied Bandwidth
17.8553 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 16.685 kHz
x dB Bandwidth 19.403 MHz
Center Freq
1.74500000 GHz
Start Freq
1.73000000 GHz
Stop Freq
1.76000000 GHz
CF Step
3.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

2.2 Test Mode=TM6

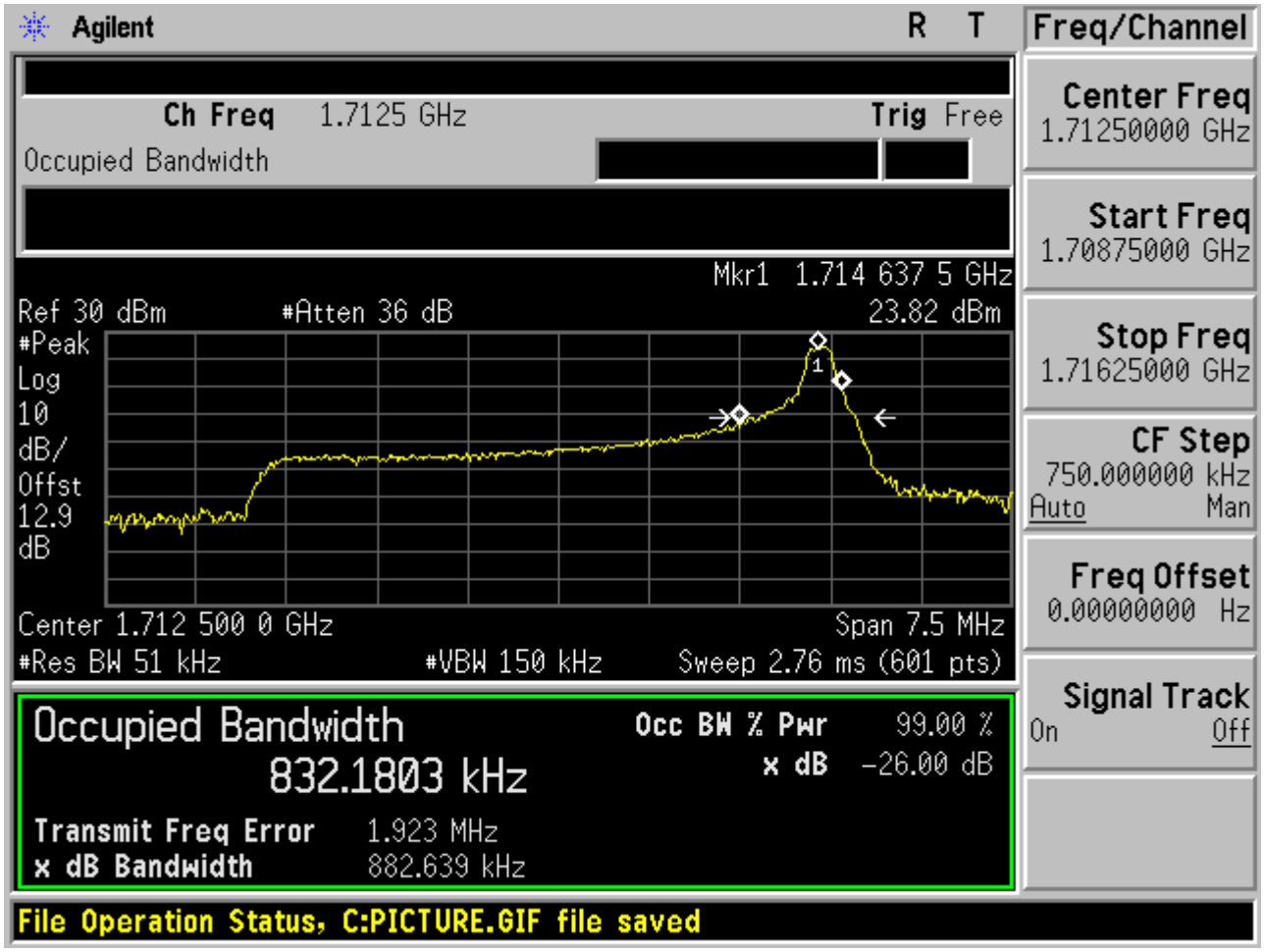
2.2.1 Channel Bandwidth = Lowest (5 MHz)

2.2.1.1 Channel = B

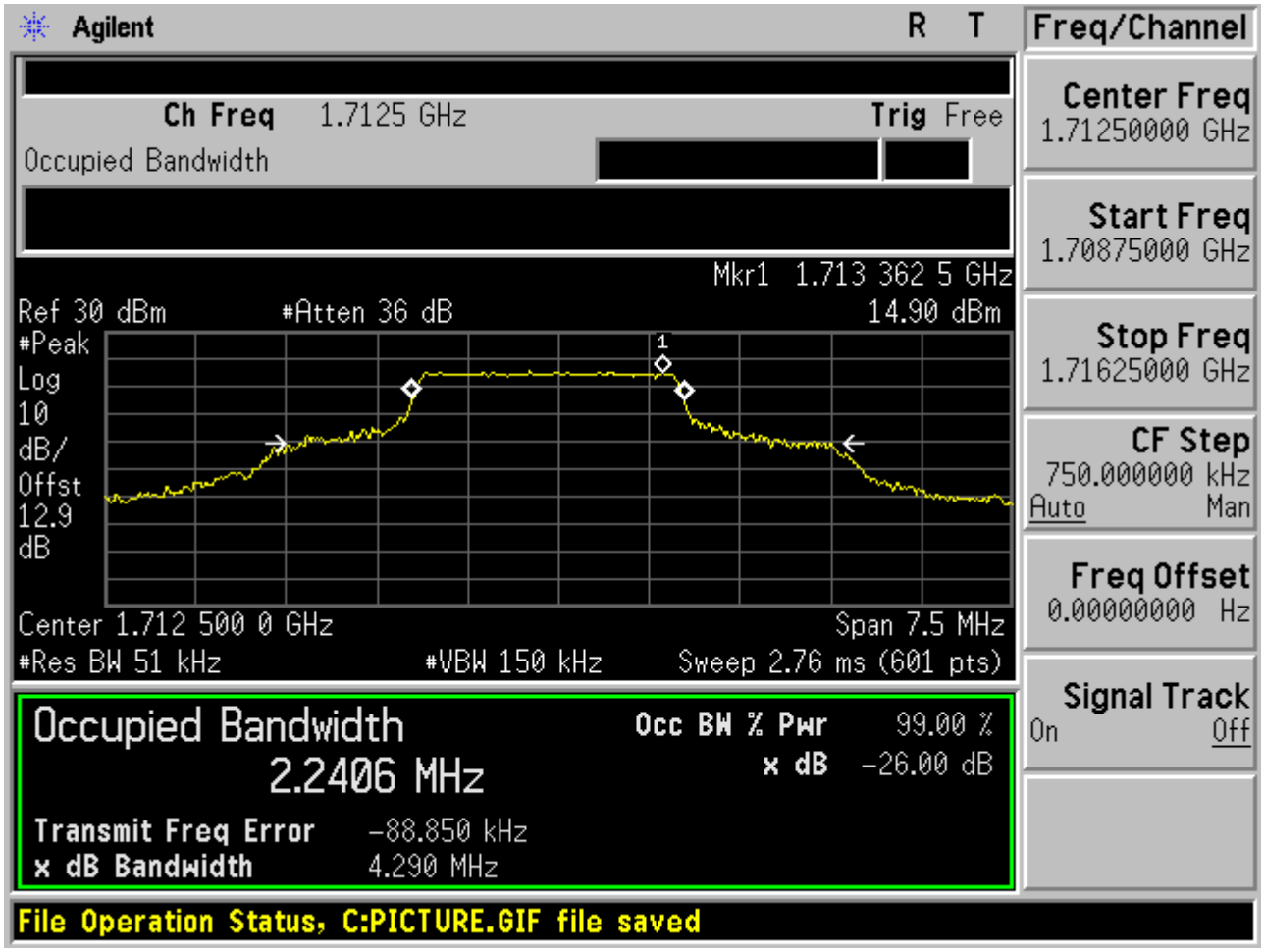
2.2.1.1.1 16QAM/1 RB#0



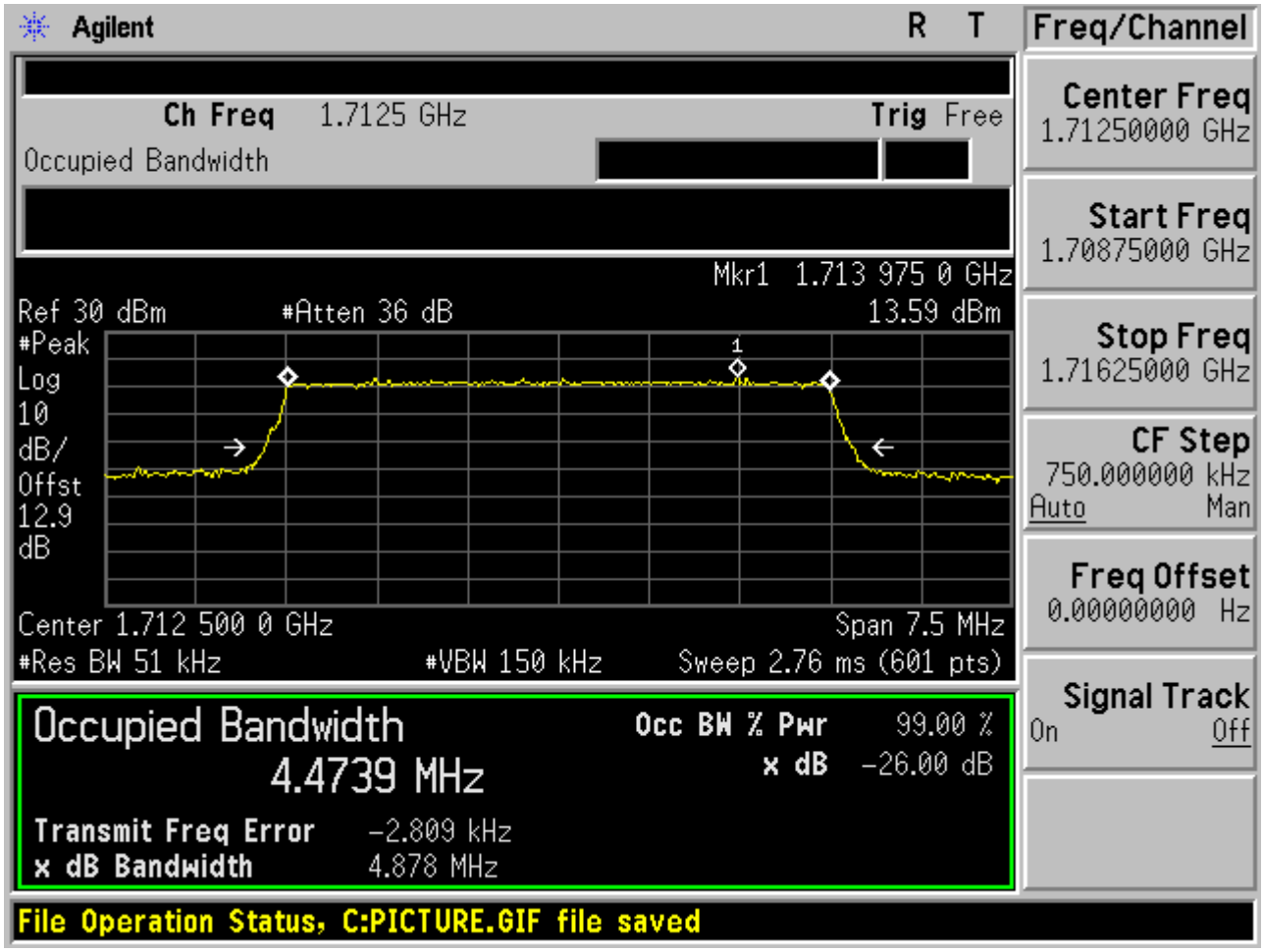
2.2.1.1.2 16QAM/1 RB#max



2.2.1.1.3 16QAM/ Partial RBs /RB #6

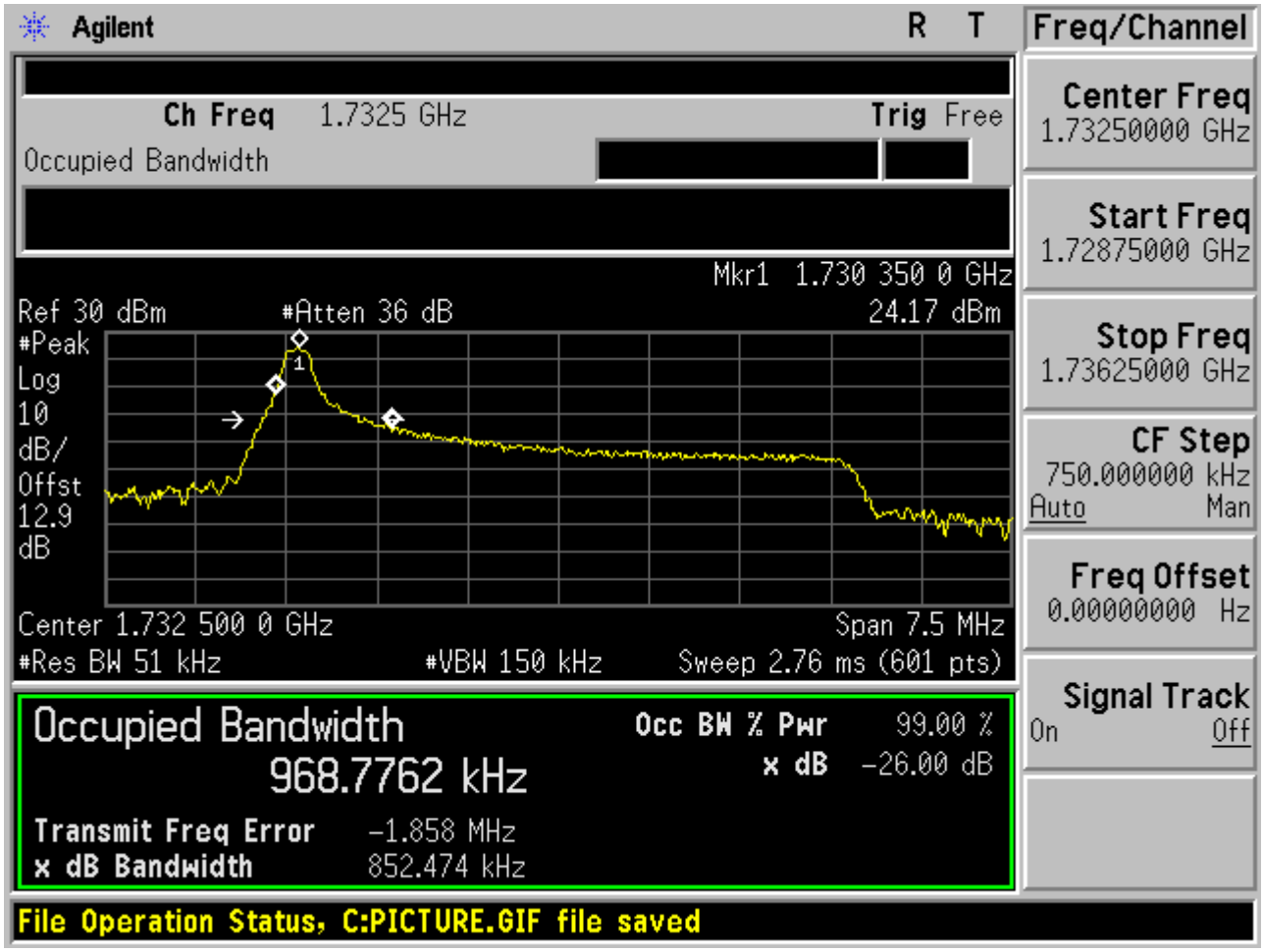


2.2.1.1.4 16QAM/full RBs

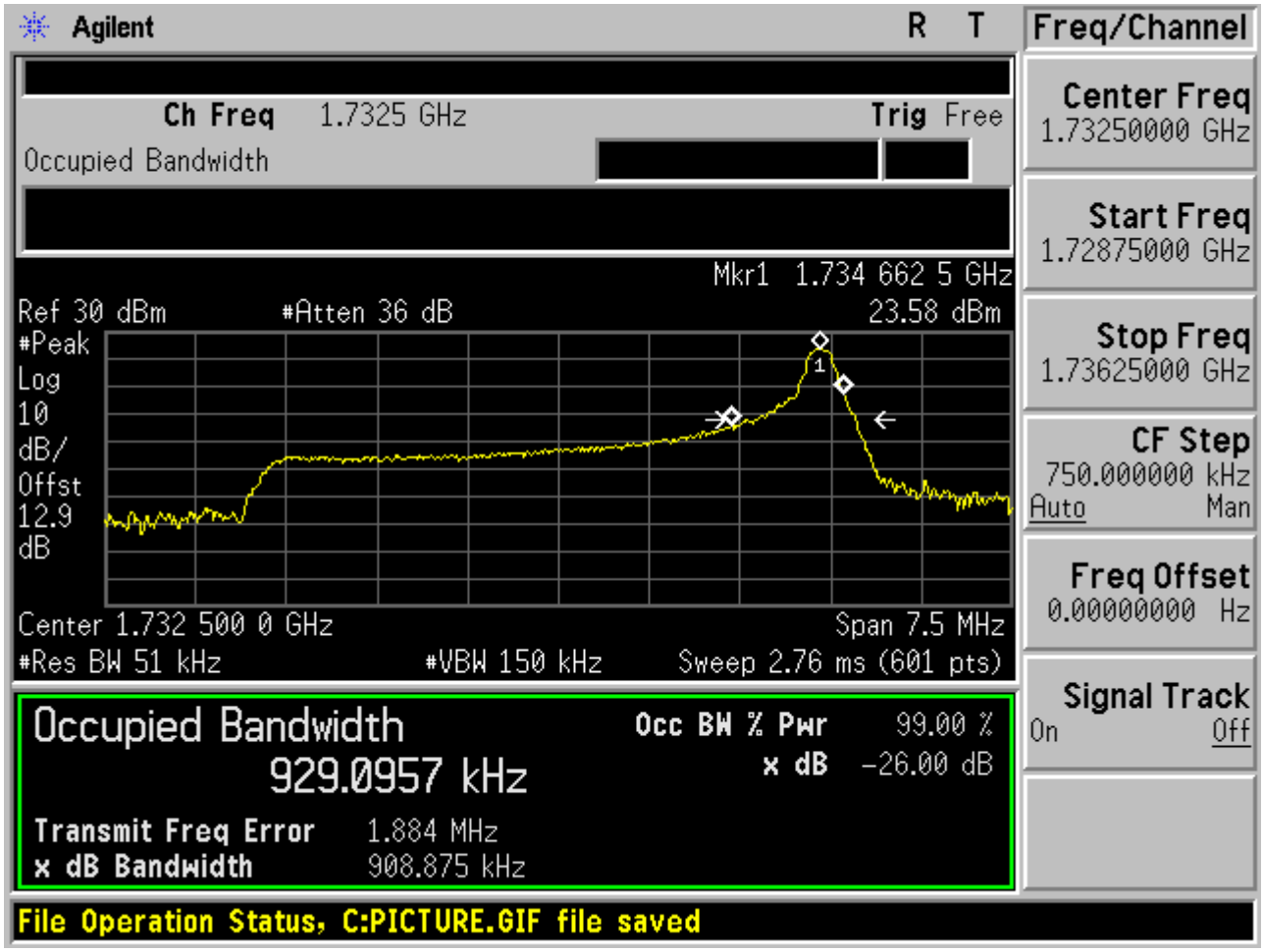


2.2.1.2 Channel = M

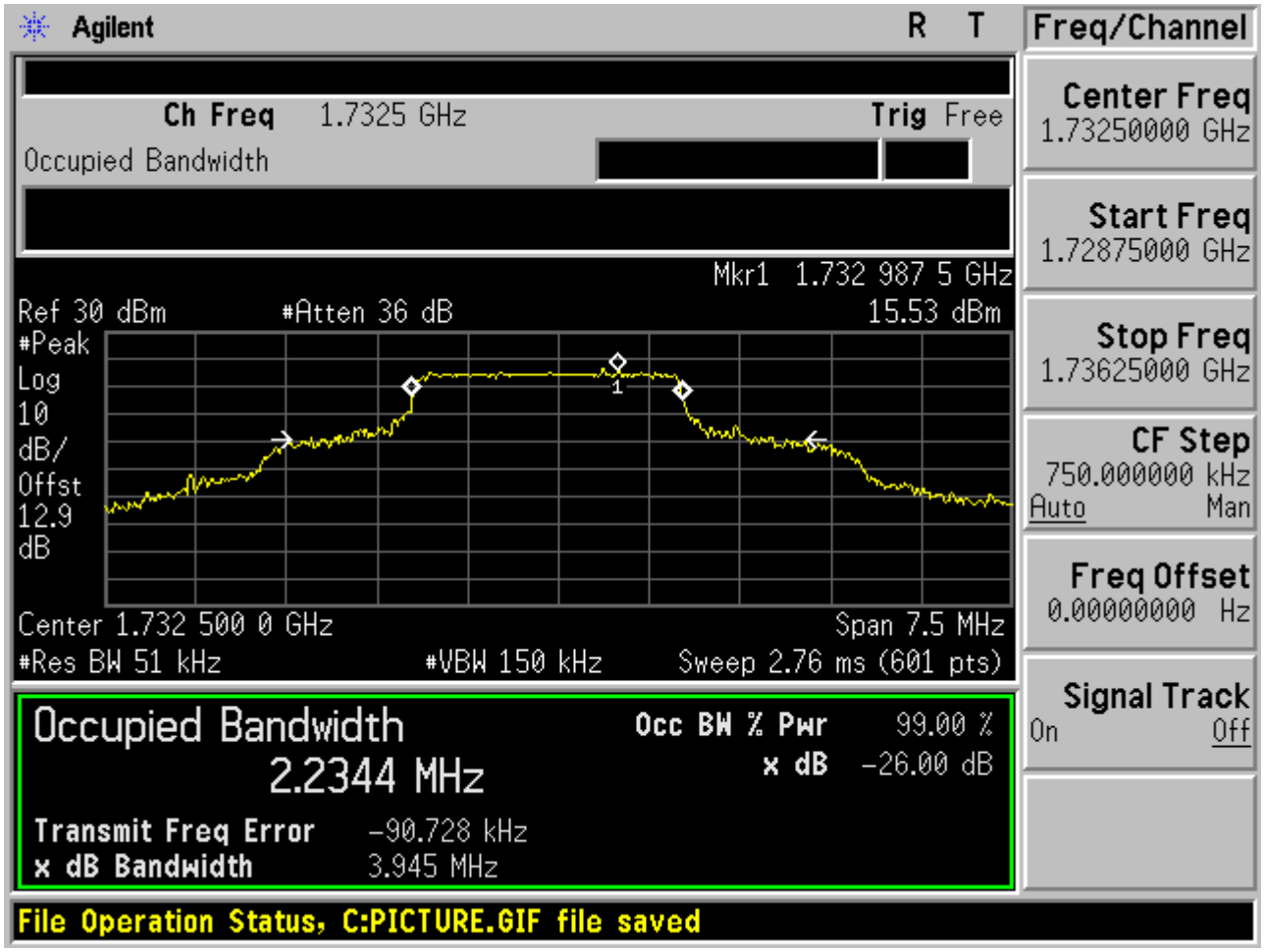
2.2.1.2.1 16QAM/1 RB#0



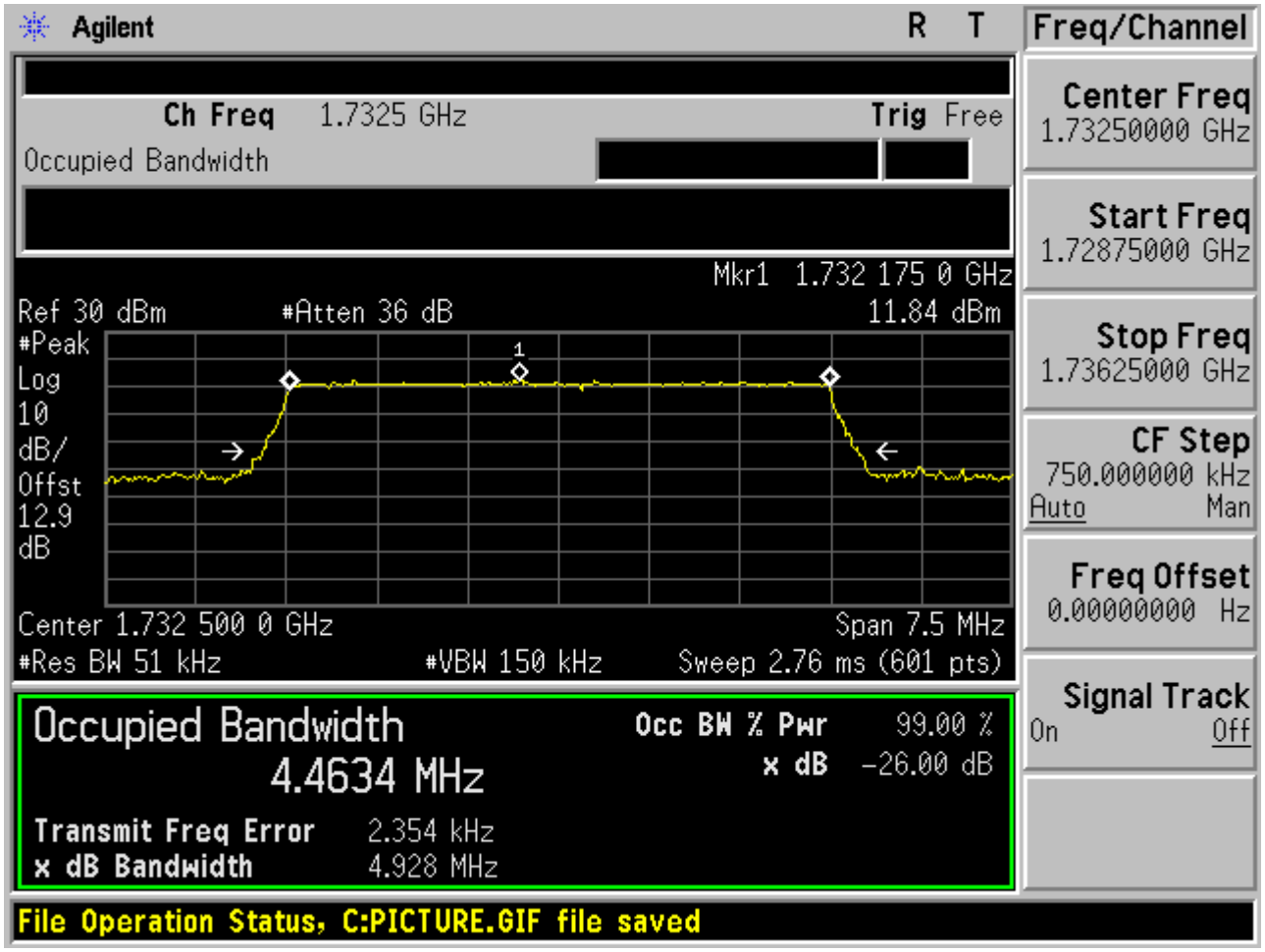
2.2.1.2.2 16QAM/1 RB#max



2.2.1.2.3 16QAM/ Partial RBs /RB #6

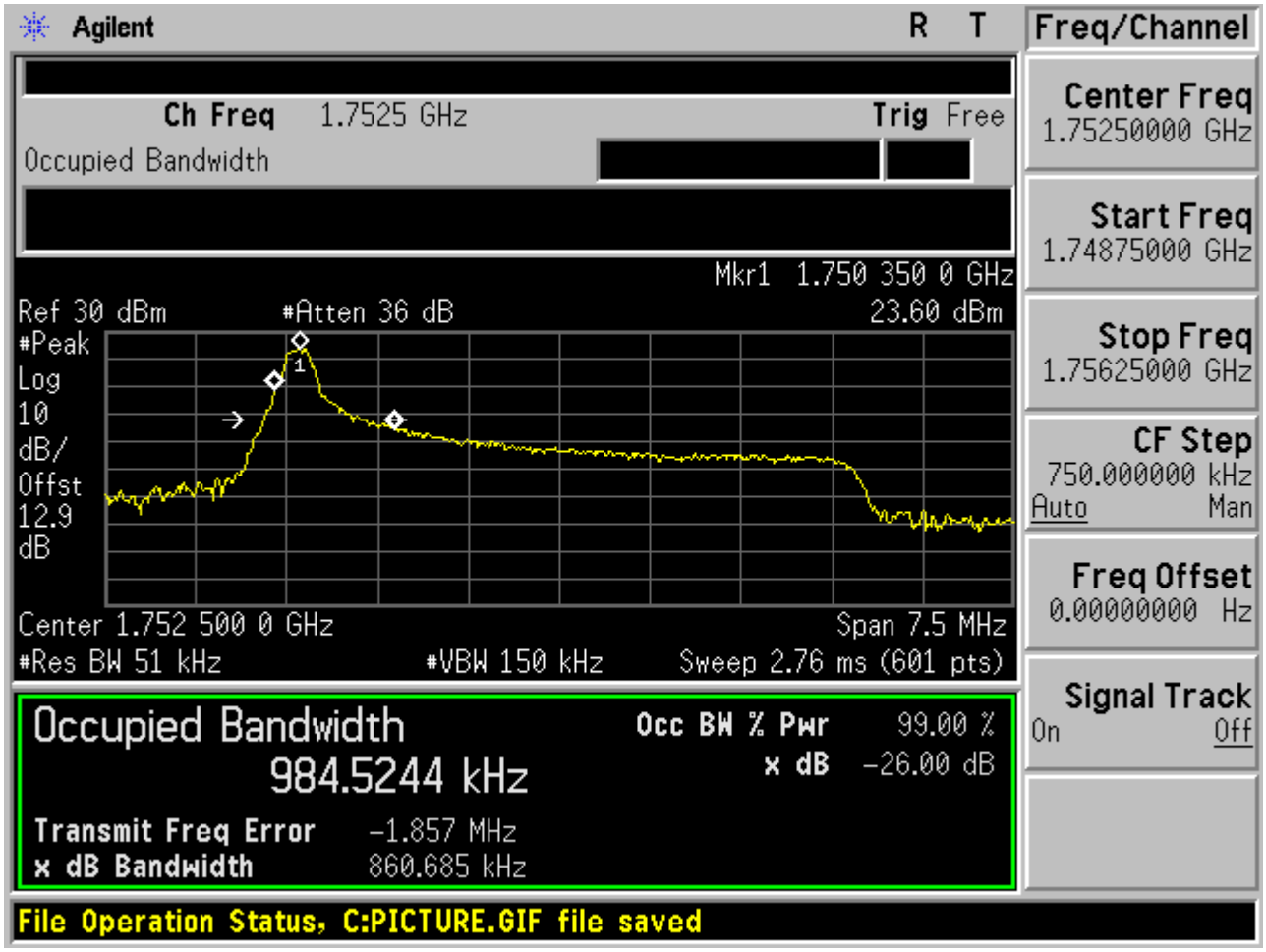


2.2.1.2.4 16QAM/full RBs

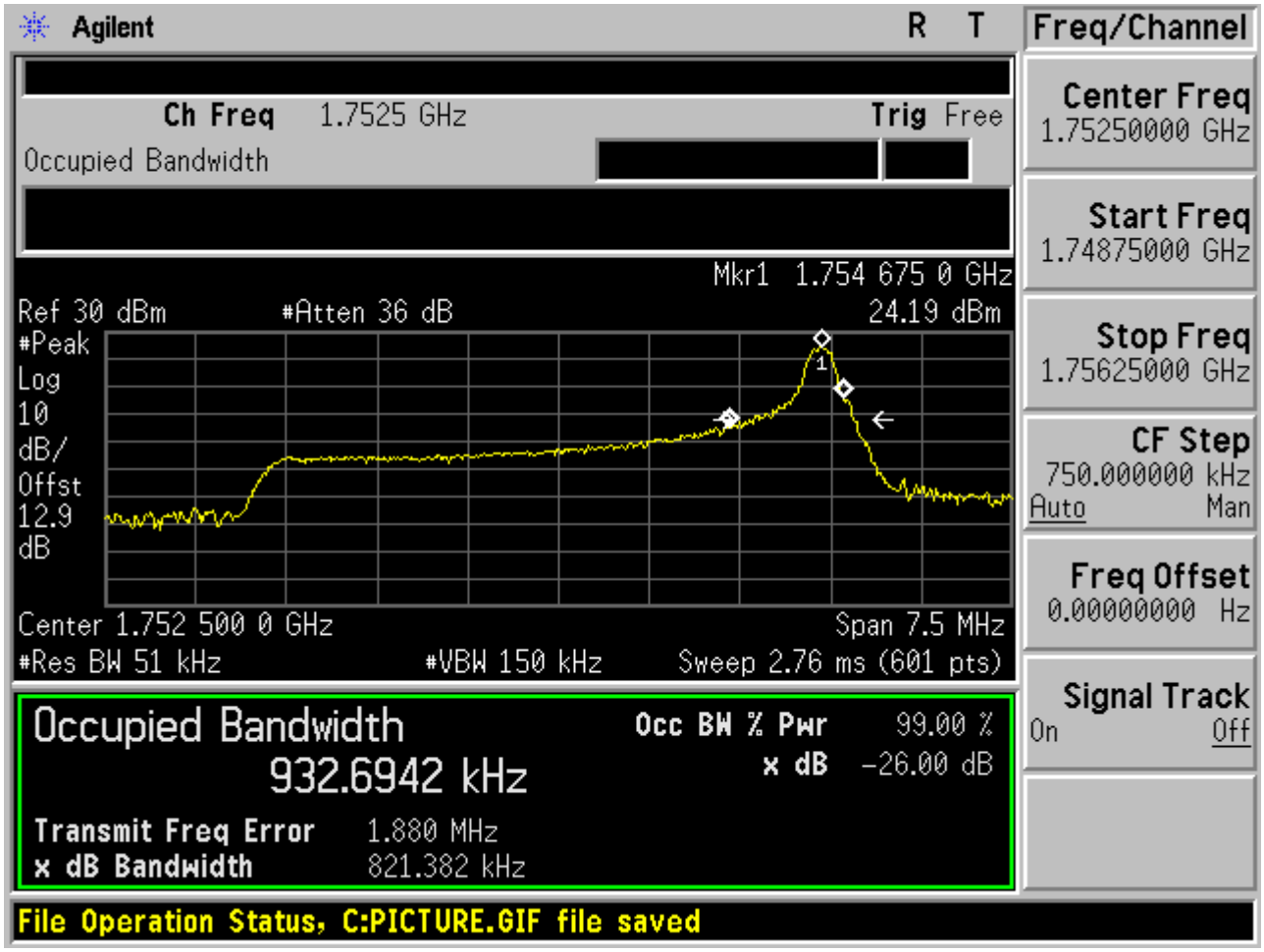

Agilent
R T
Freq/Channel
Ch Freq 1.7325 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.732 175 0 GHz
Ref 30 dBm
#Atten 36 dB
11.84 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.732 500 0 GHz
Span 7.5 MHz
#Res BW 51 kHz
#VBW 150 kHz
Sweep 2.76 ms (601 pts)
Occupied Bandwidth
4.4634 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 2.354 kHz
x dB Bandwidth 4.928 MHz
Center Freq
1.73250000 GHz
Start Freq
1.72875000 GHz
Stop Freq
1.73625000 GHz
CF Step
750.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

2.2.1.3 Channel =T

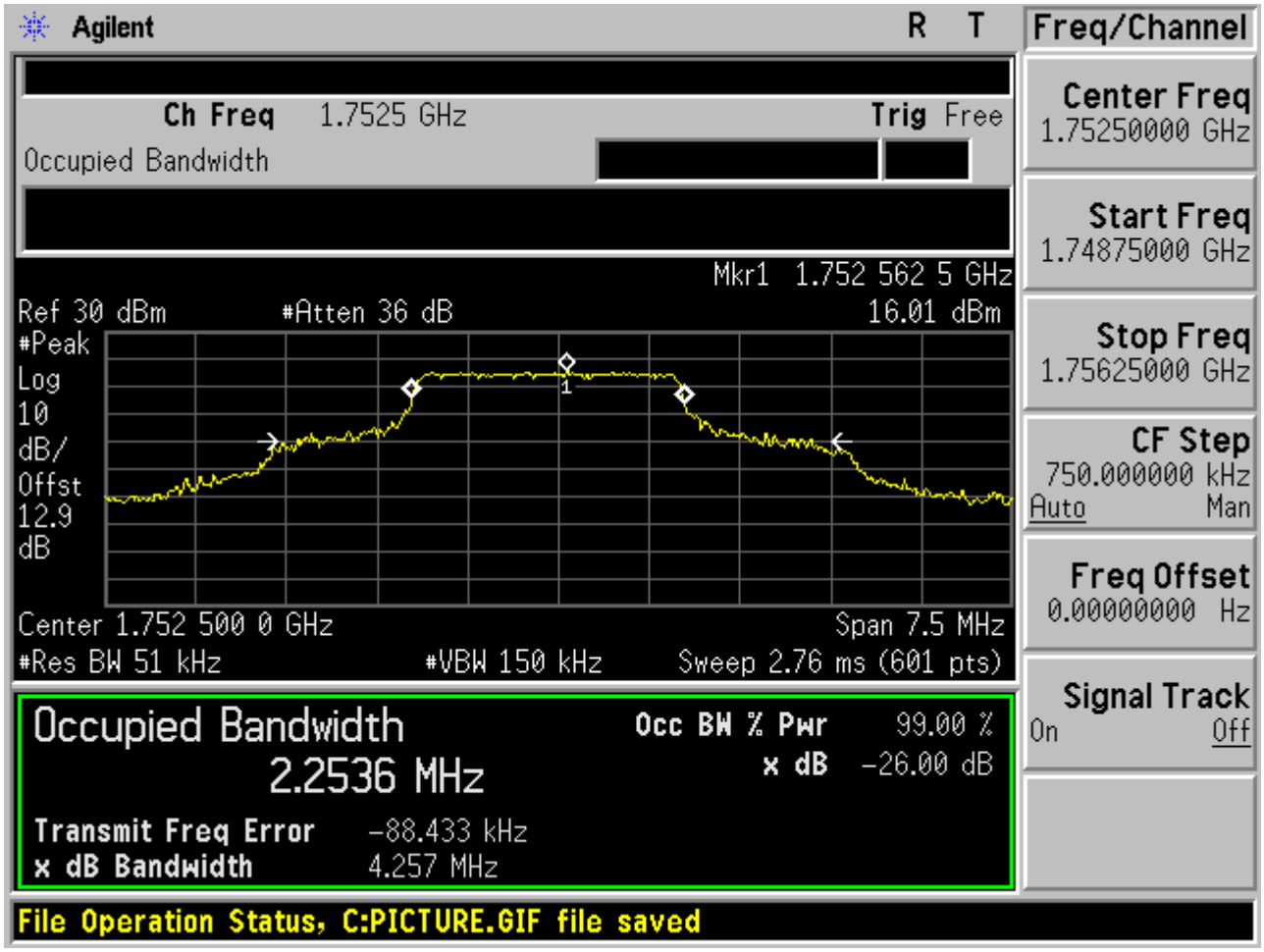
2.2.1.3.1 16QAM/1 RB#0



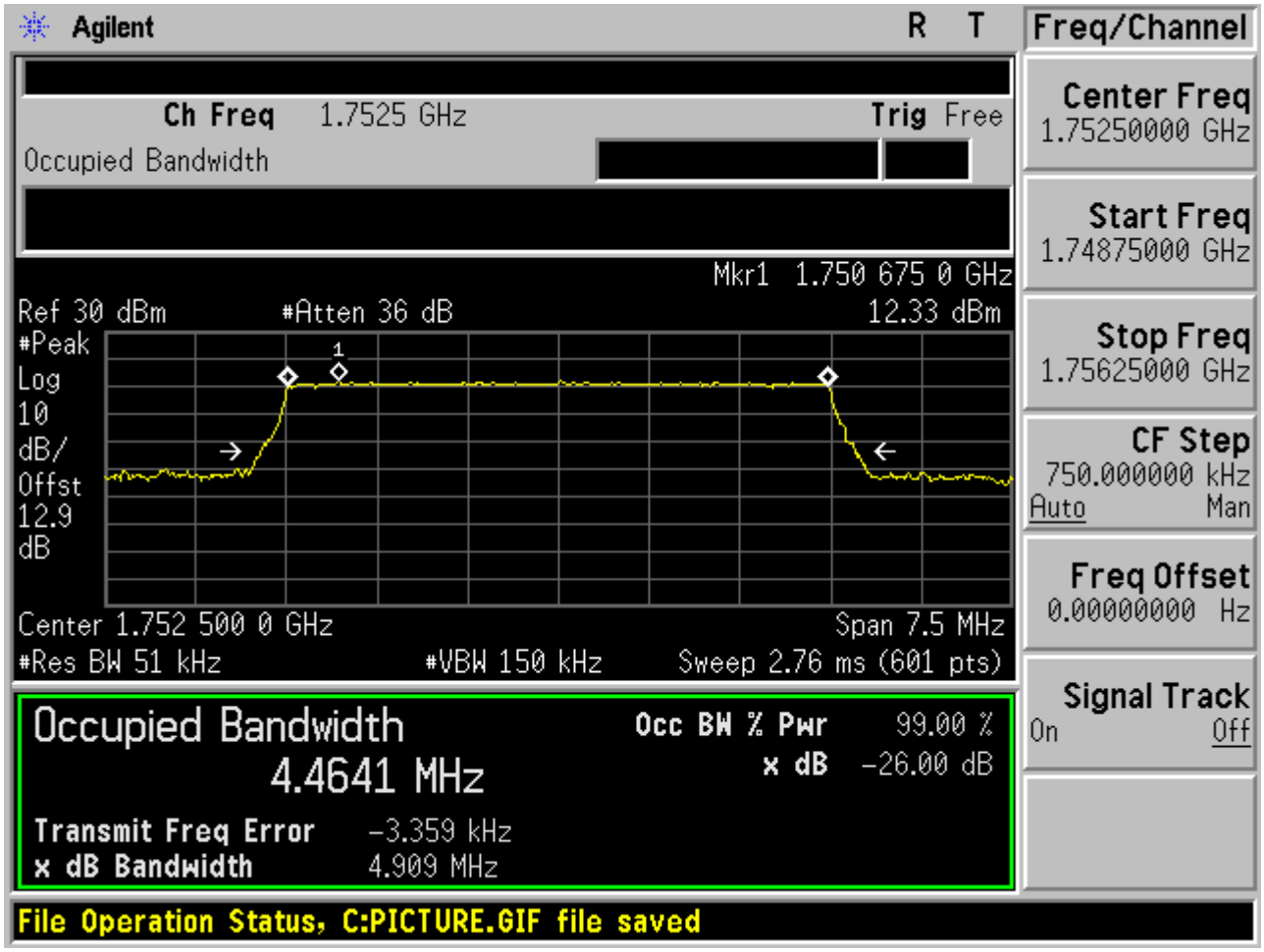
2.2.1.3.2 16QAM/1 RB#max



2.2.1.3.3 16QAM/ Partial RBs /RB #6



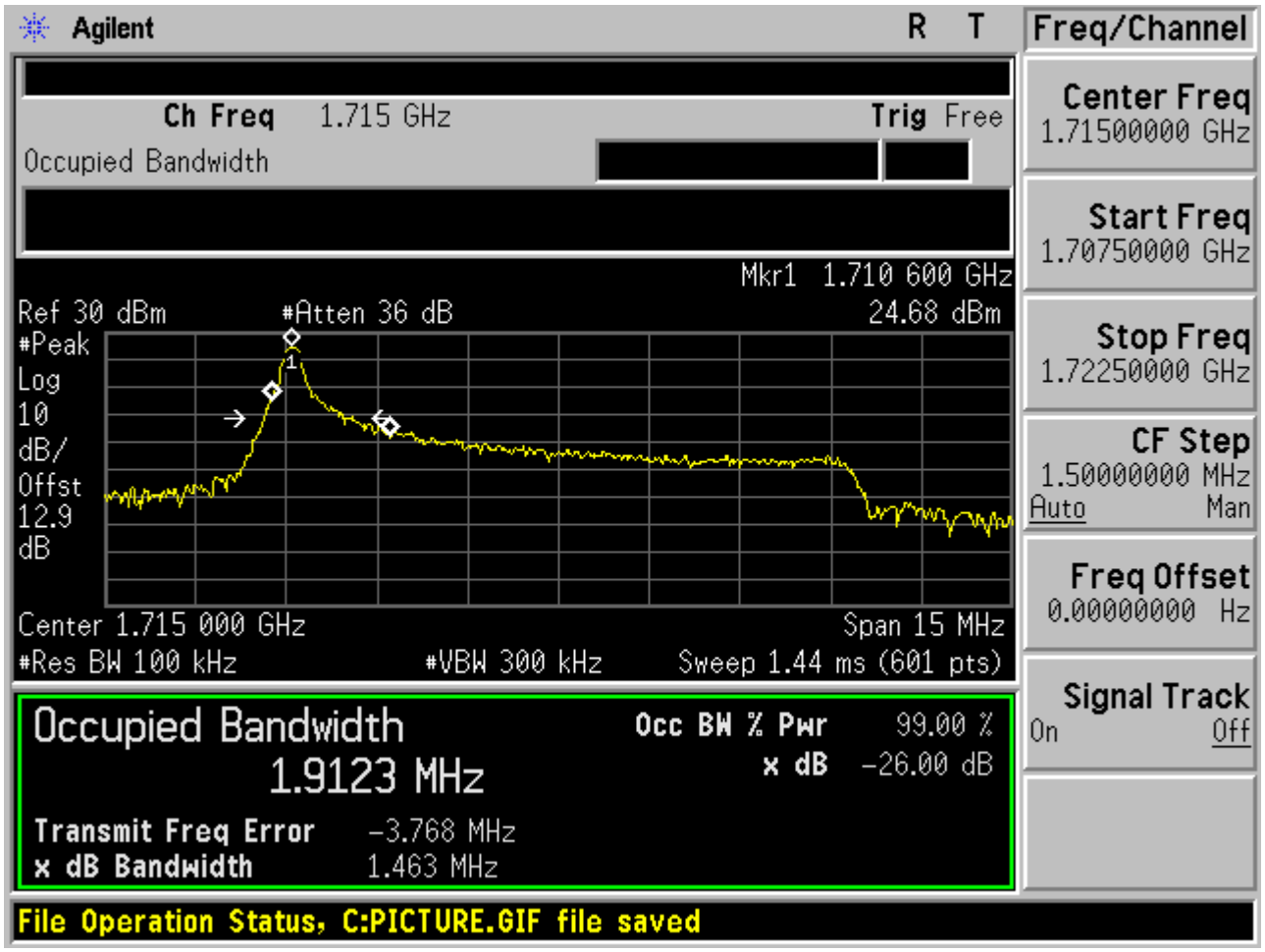
2.2.1.3.4 16QAM/full RBs


Agilent
R T
Freq/Channel
Ch Freq 1.7525 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.750 675 0 GHz
Ref 30 dBm
#Atten 36 dB
12.33 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.752 500 0 GHz
Span 7.5 MHz
#Res BW 51 kHz
#VBW 150 kHz
Sweep 2.76 ms (601 pts)
Occupied Bandwidth
4.4641 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error -3.359 kHz
x dB Bandwidth 4.909 MHz
Center Freq
1.75250000 GHz
Start Freq
1.74875000 GHz
Stop Freq
1.75625000 GHz
CF Step
750.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

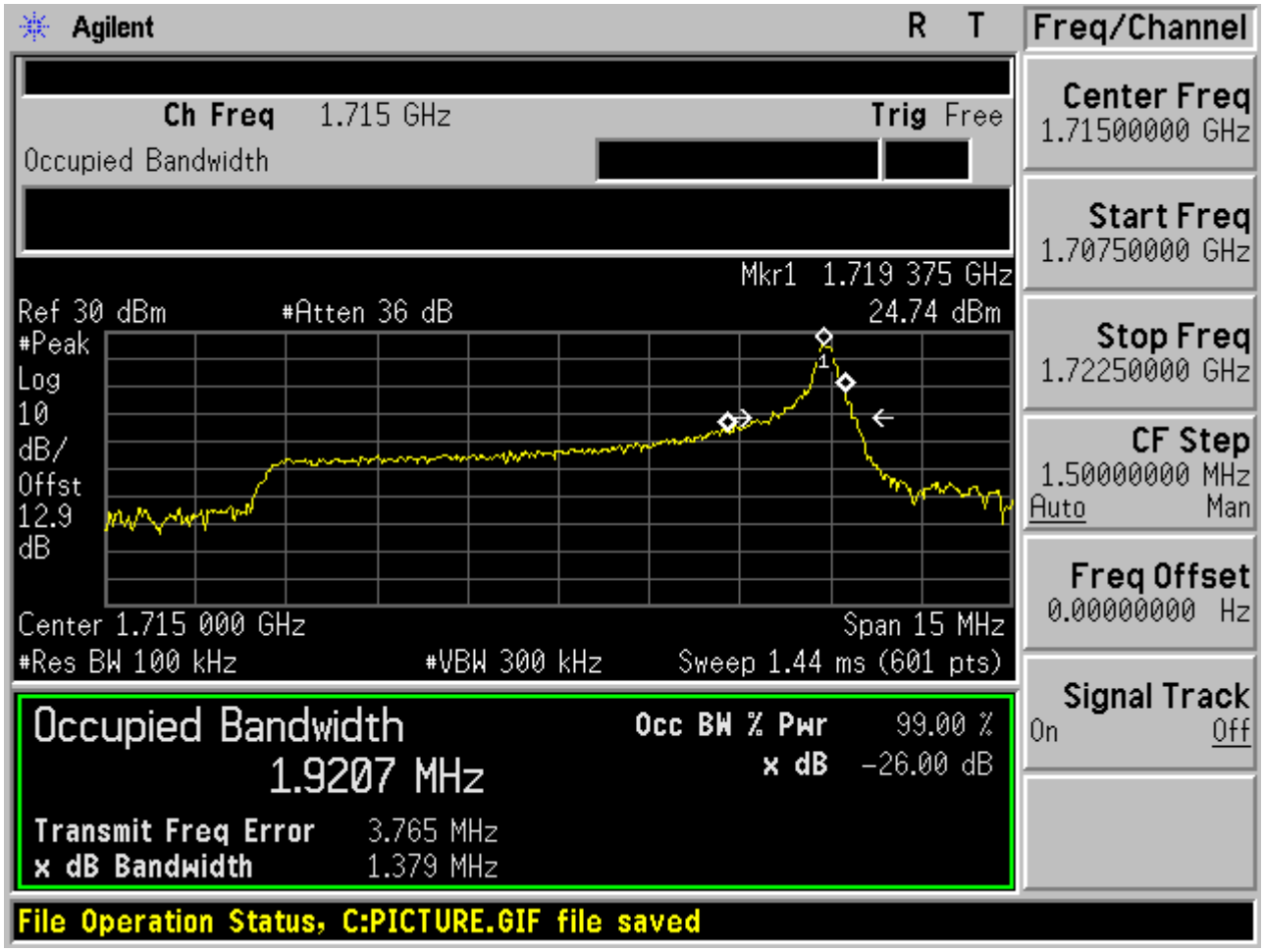
2.2.2 Channel Bandwidth = 10 MHz

2.2.2.1 Channel = B

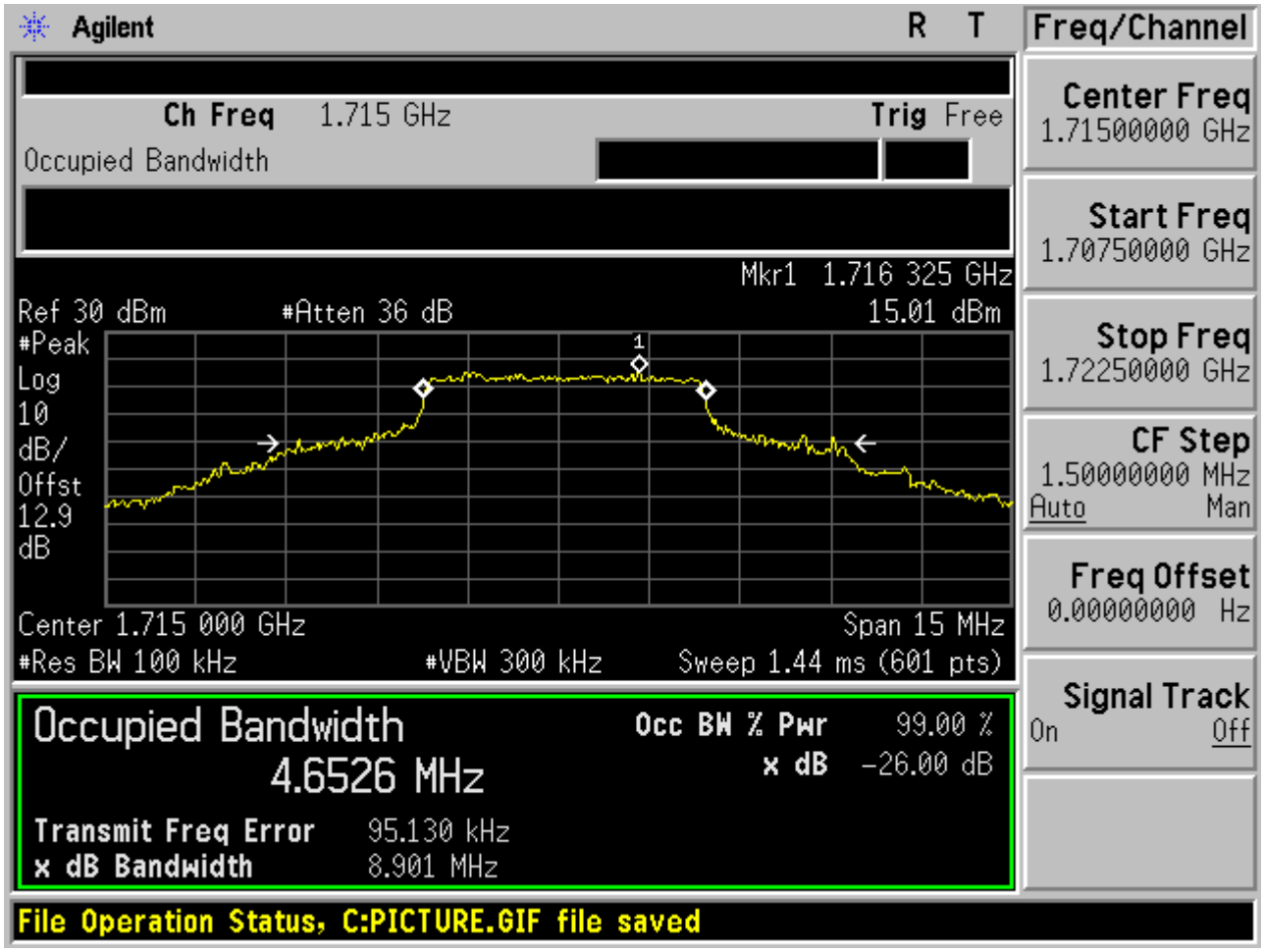
2.2.2.1.1 16QAM/1 RB#0



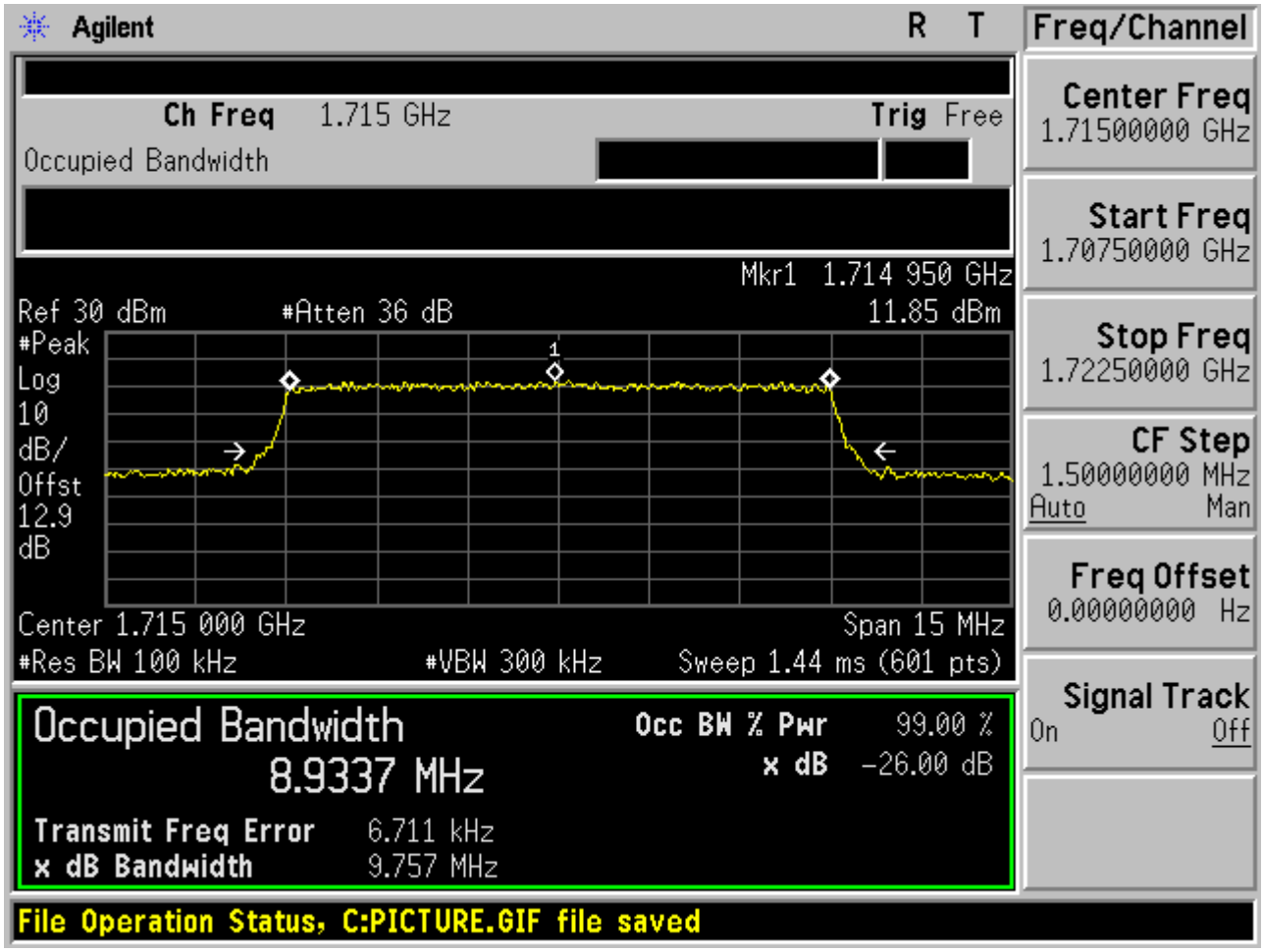
2.2.2.1.2 16QAM/1 RB#max



2.2.2.1.3 16QAM/ Partial RBs /RB #13

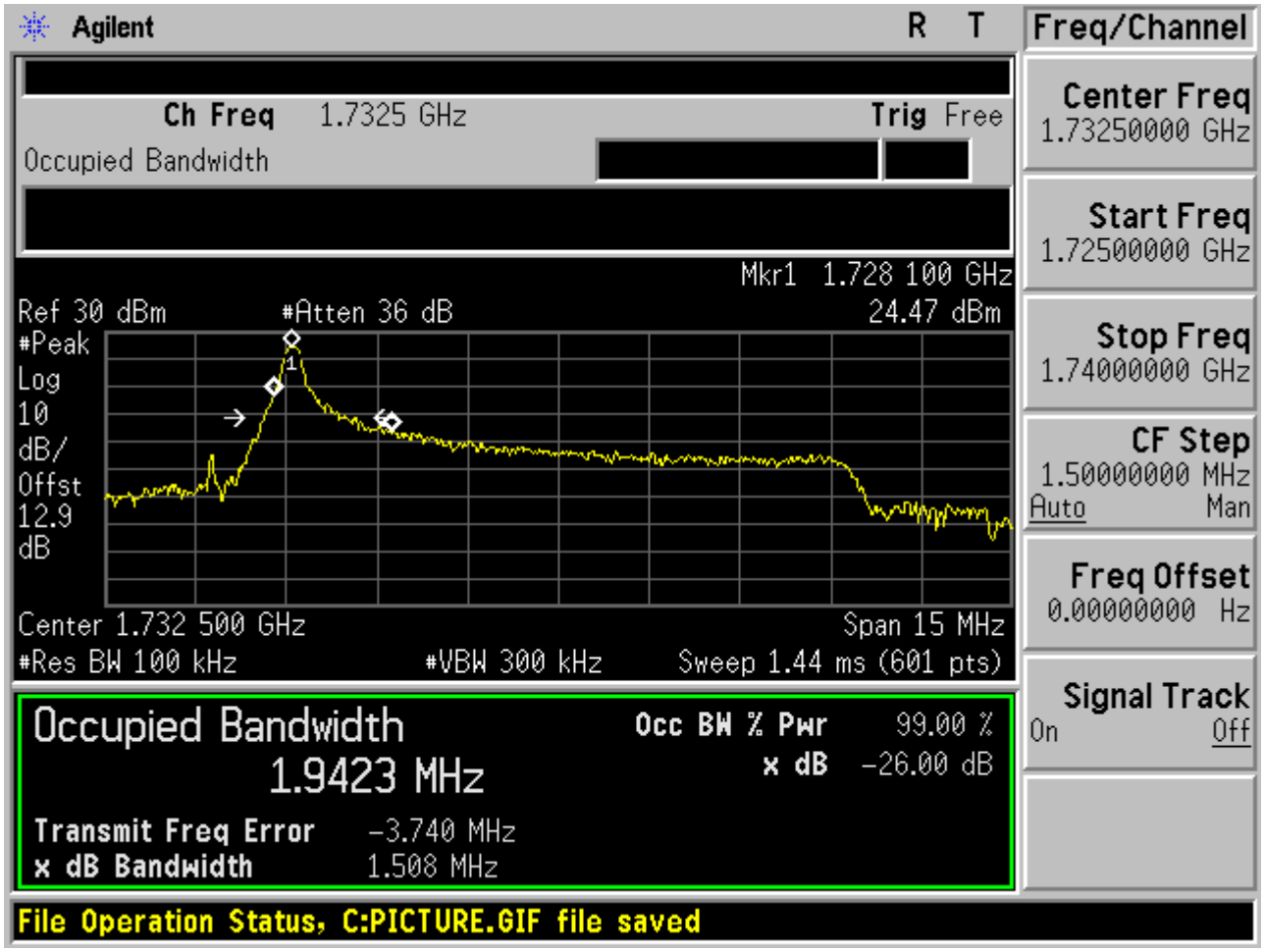


2.2.2.1.4 16QAM/full RBs

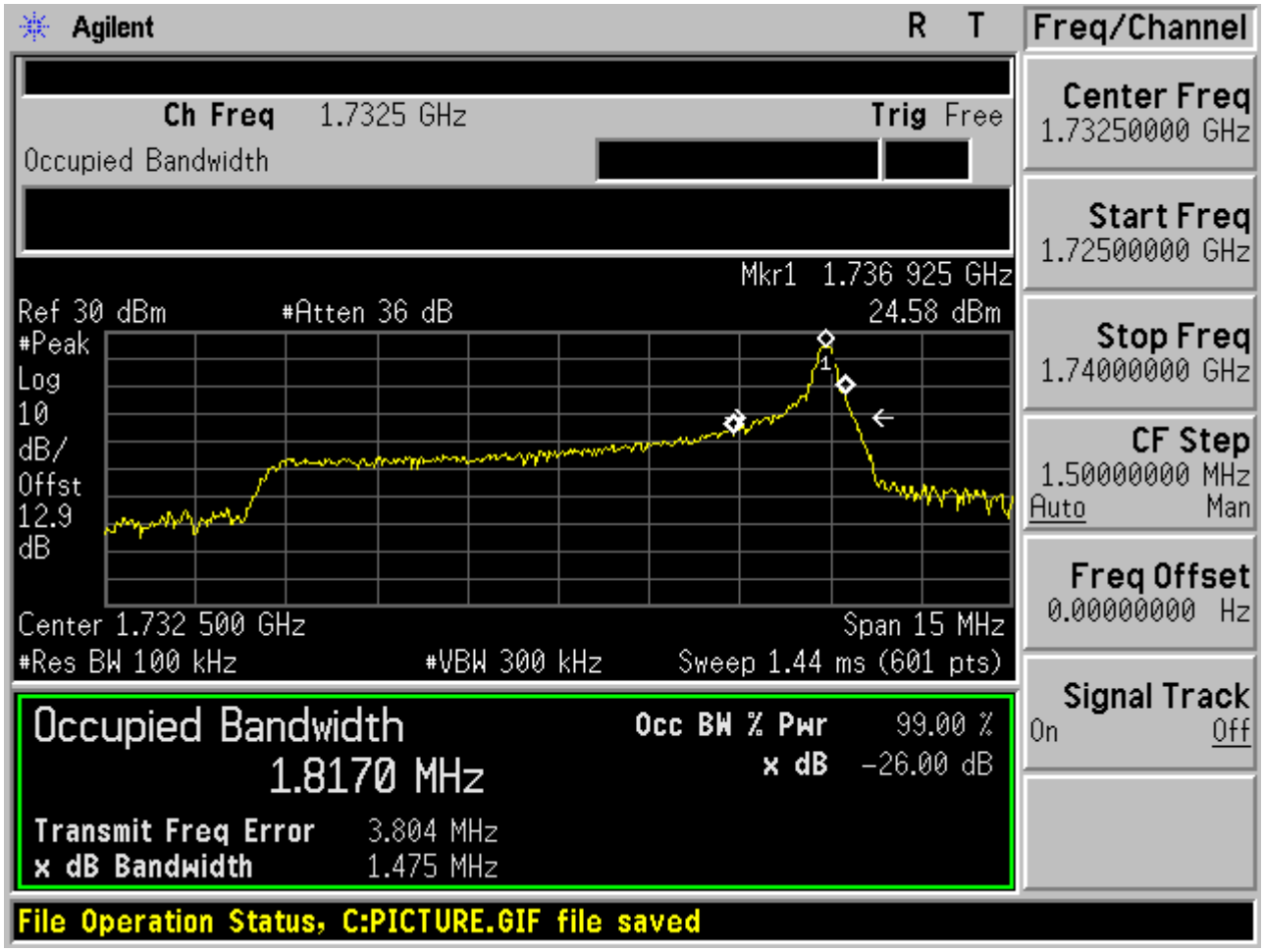


2.2.2.2 Channel = M

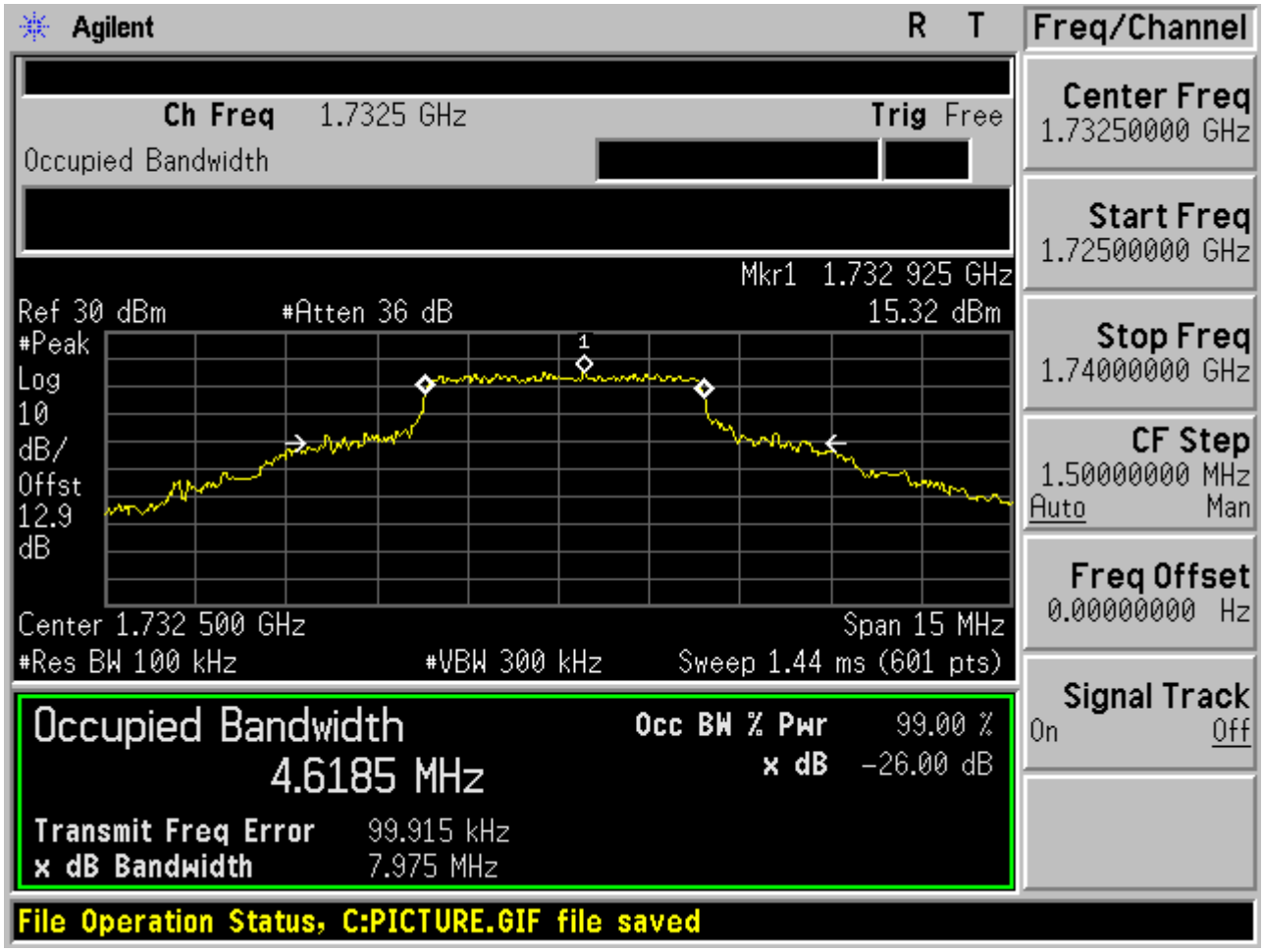
2.2.2.2.1 16QAM/1 RB#0



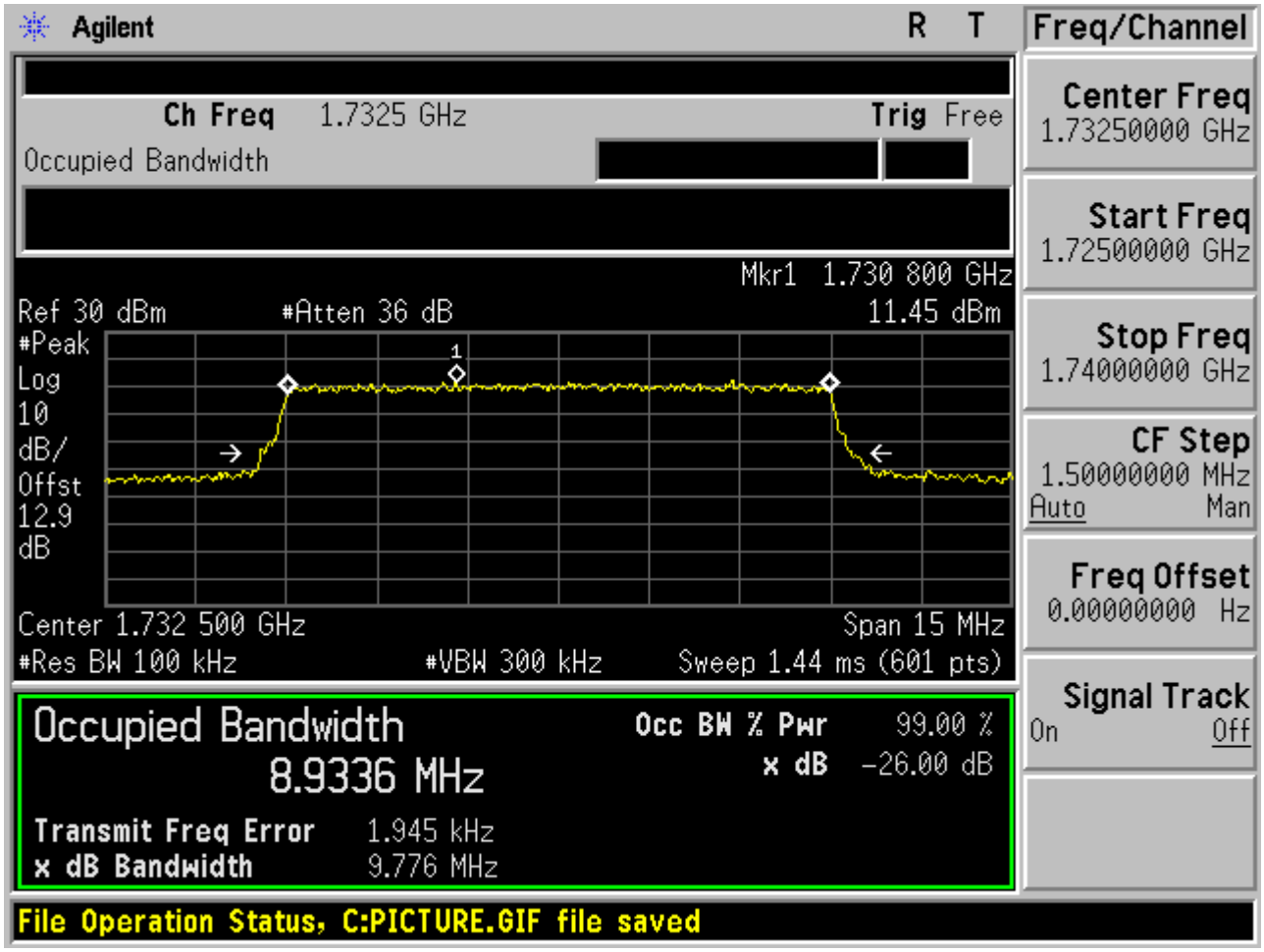
2.2.2.2.2 16QAM/1 RB#max



2.2.2.2.3 16QAM/ Partial RBs /RB #13

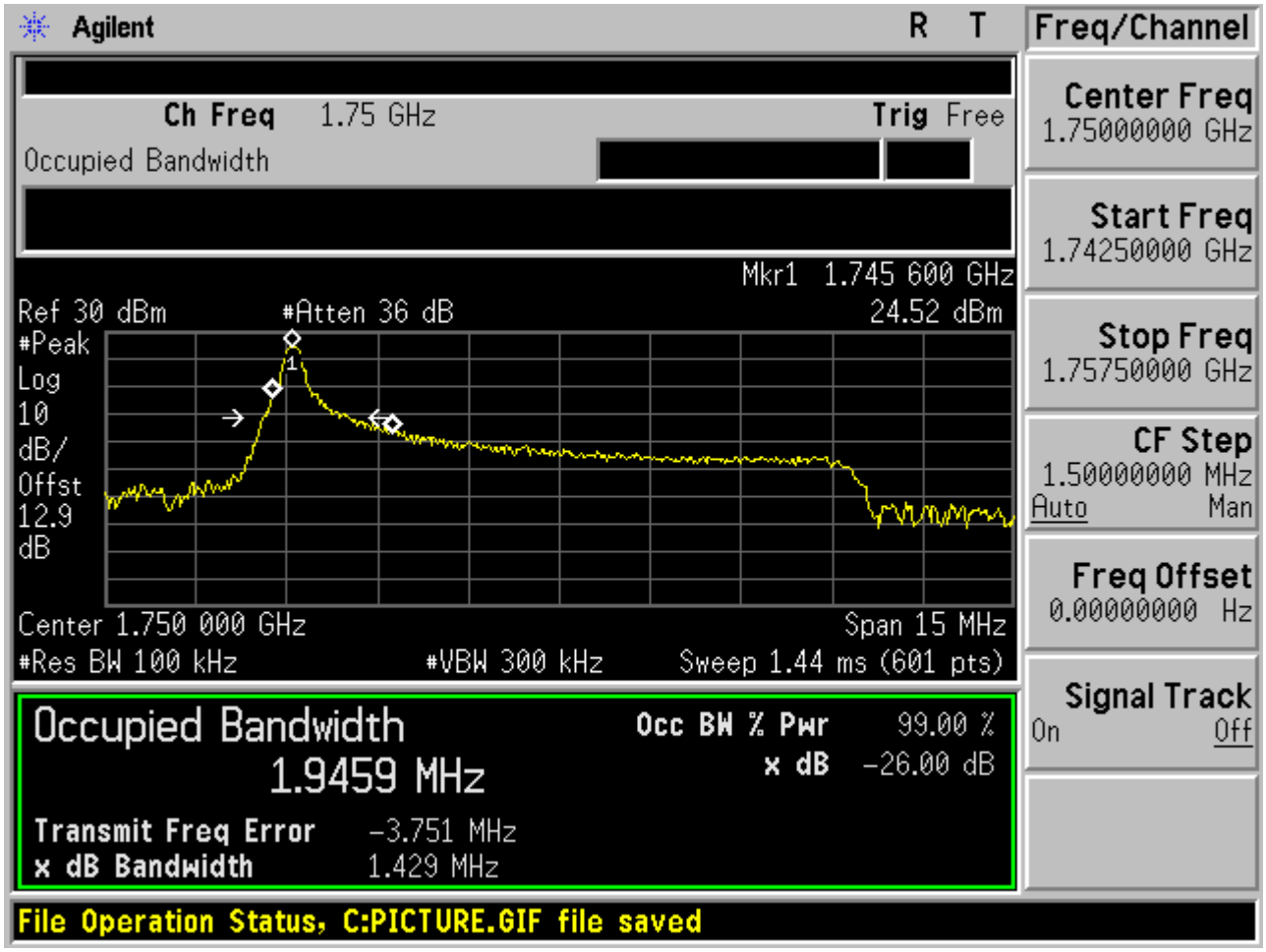


2.2.2.2.4 16QAM/full RBs

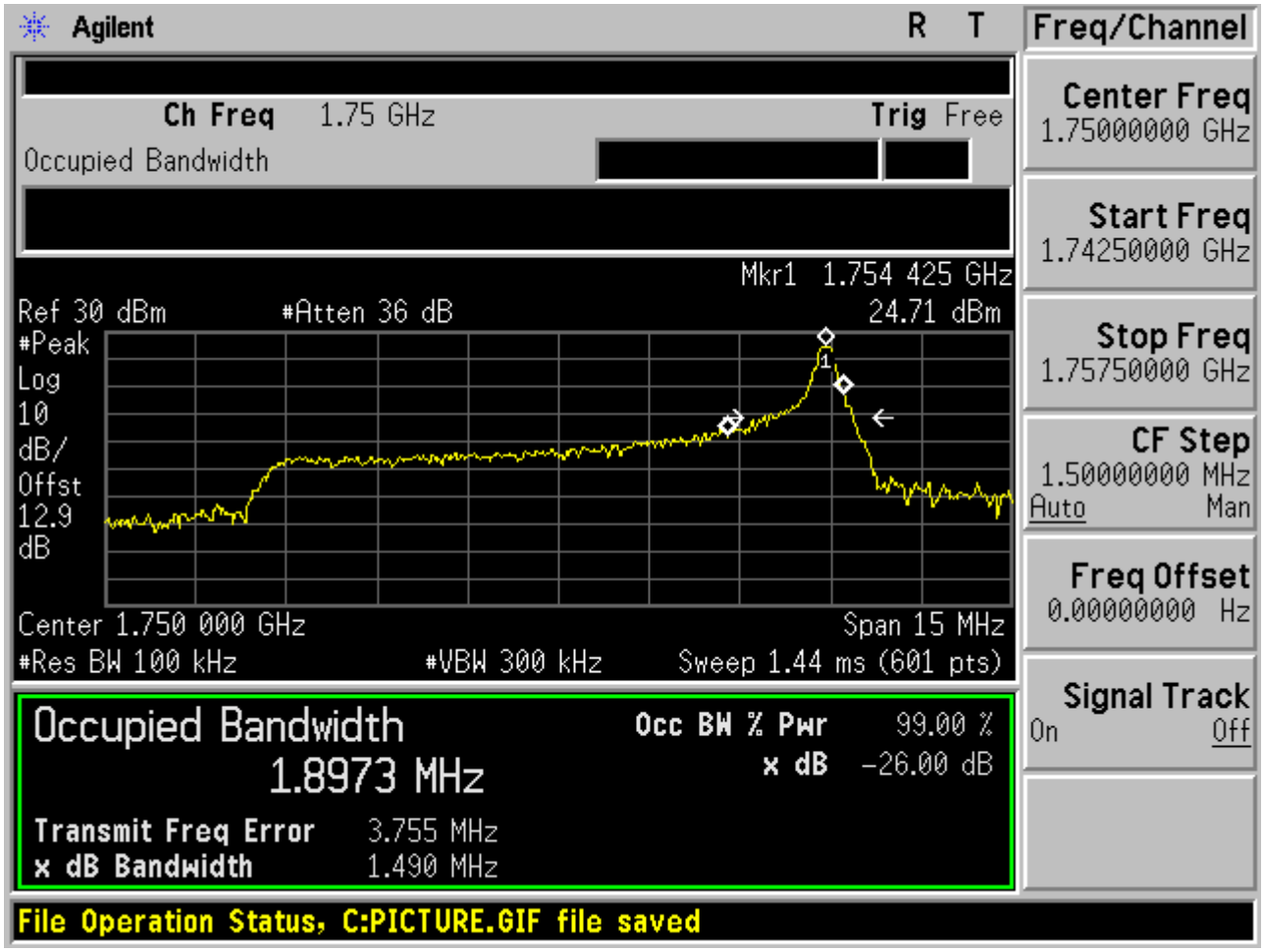

Agilent
R T
Freq/Channel
Ch Freq 1.7325 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.730 800 GHz
Ref 30 dBm
#Atten 36 dB
11.45 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.732 500 GHz
Span 15 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.44 ms (601 pts)
Occupied Bandwidth
8.9336 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 1.945 kHz
x dB Bandwidth 9.776 MHz
Center Freq
1.73250000 GHz
Start Freq
1.72500000 GHz
Stop Freq
1.74000000 GHz
CF Step
1.50000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

2.2.2.3 Channel =T

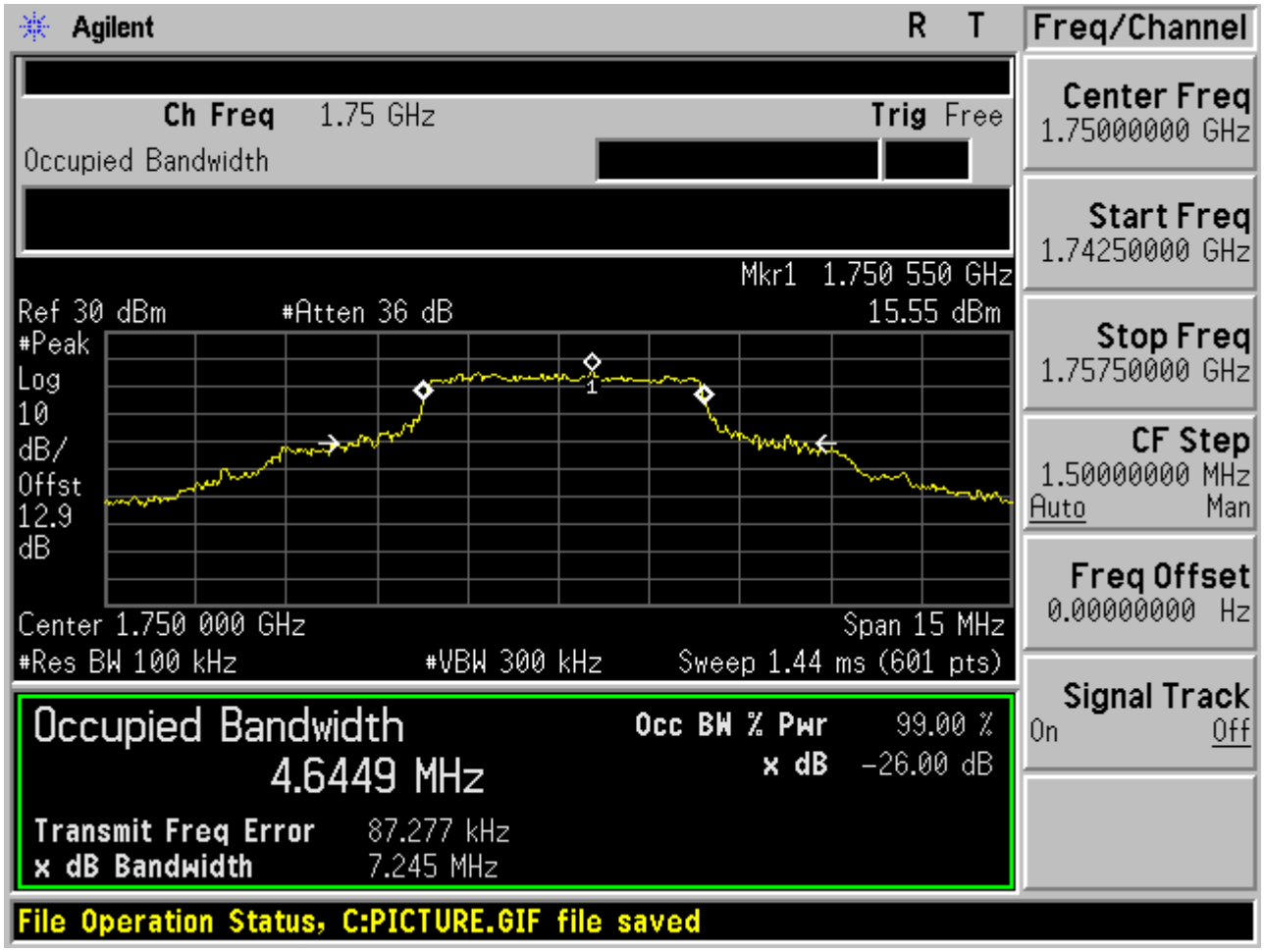
2.2.2.3.1 16QAM/1 RB#0



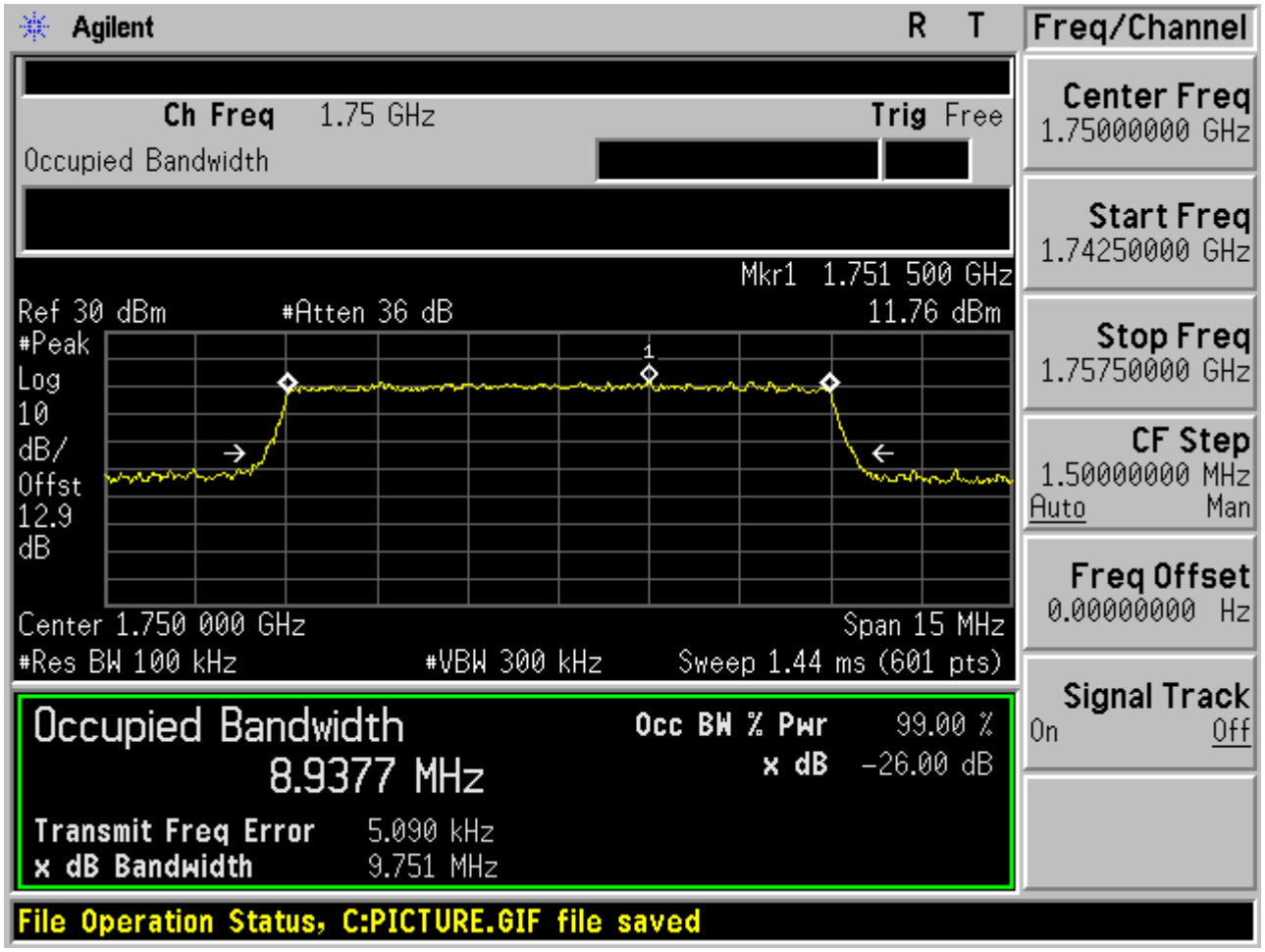
2.2.2.3.2 16QAM/1 RB#max



2.2.2.3.3 16QAM/ Partial RBs /RB #13



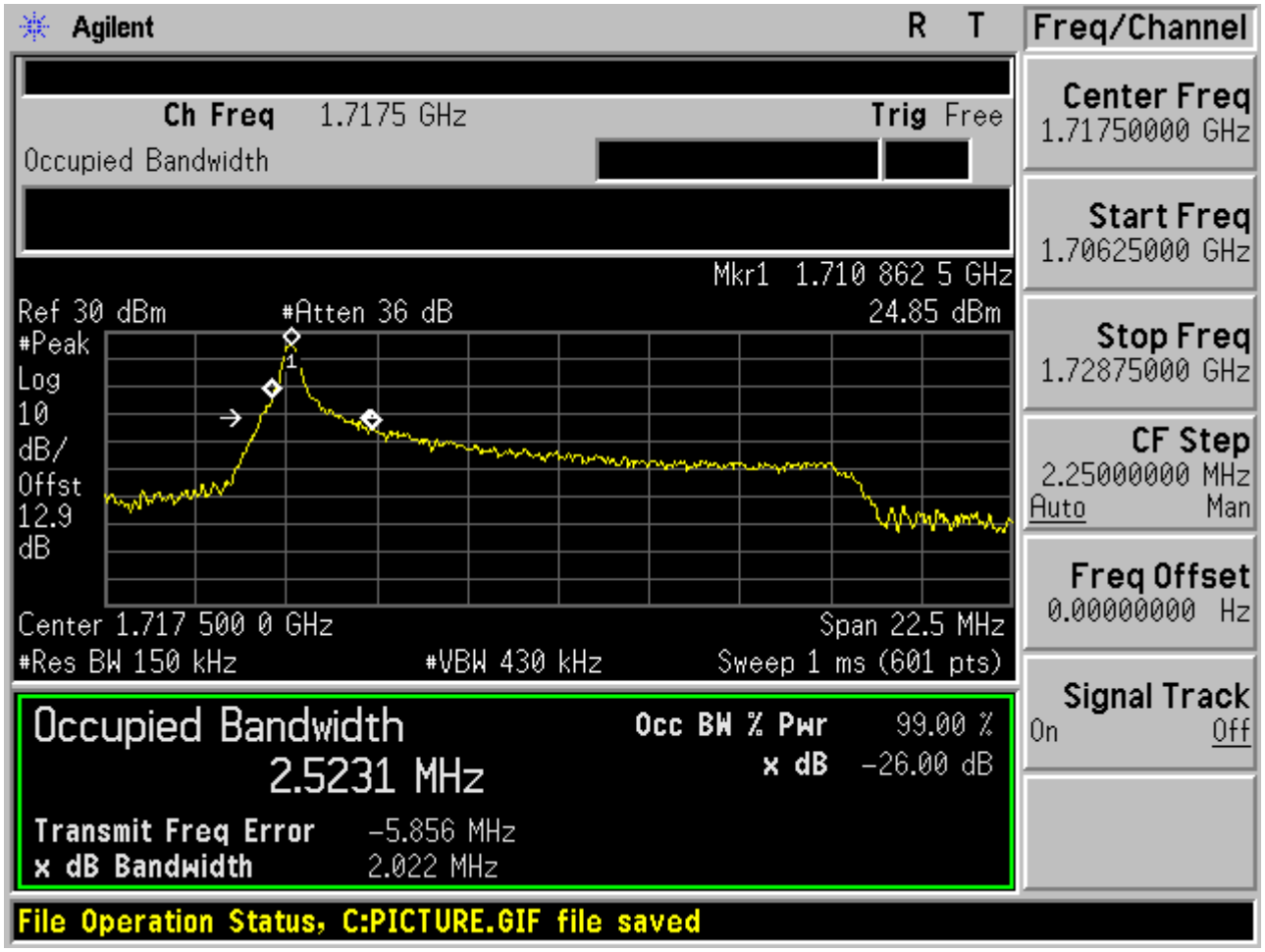
2.2.2.3.4 16QAM/full RBs


Agilent
R T
Freq/Channel
Ch Freq 1.75 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.751 500 GHz
Ref 30 dBm
#Atten 36 dB
11.76 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.750 000 GHz
Span 15 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.44 ms (601 pts)
Occupied Bandwidth
8.9377 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 5.090 kHz
x dB Bandwidth 9.751 MHz
Center Freq
1.75000000 GHz
Start Freq
1.74250000 GHz
Stop Freq
1.75750000 GHz
CF Step
1.50000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

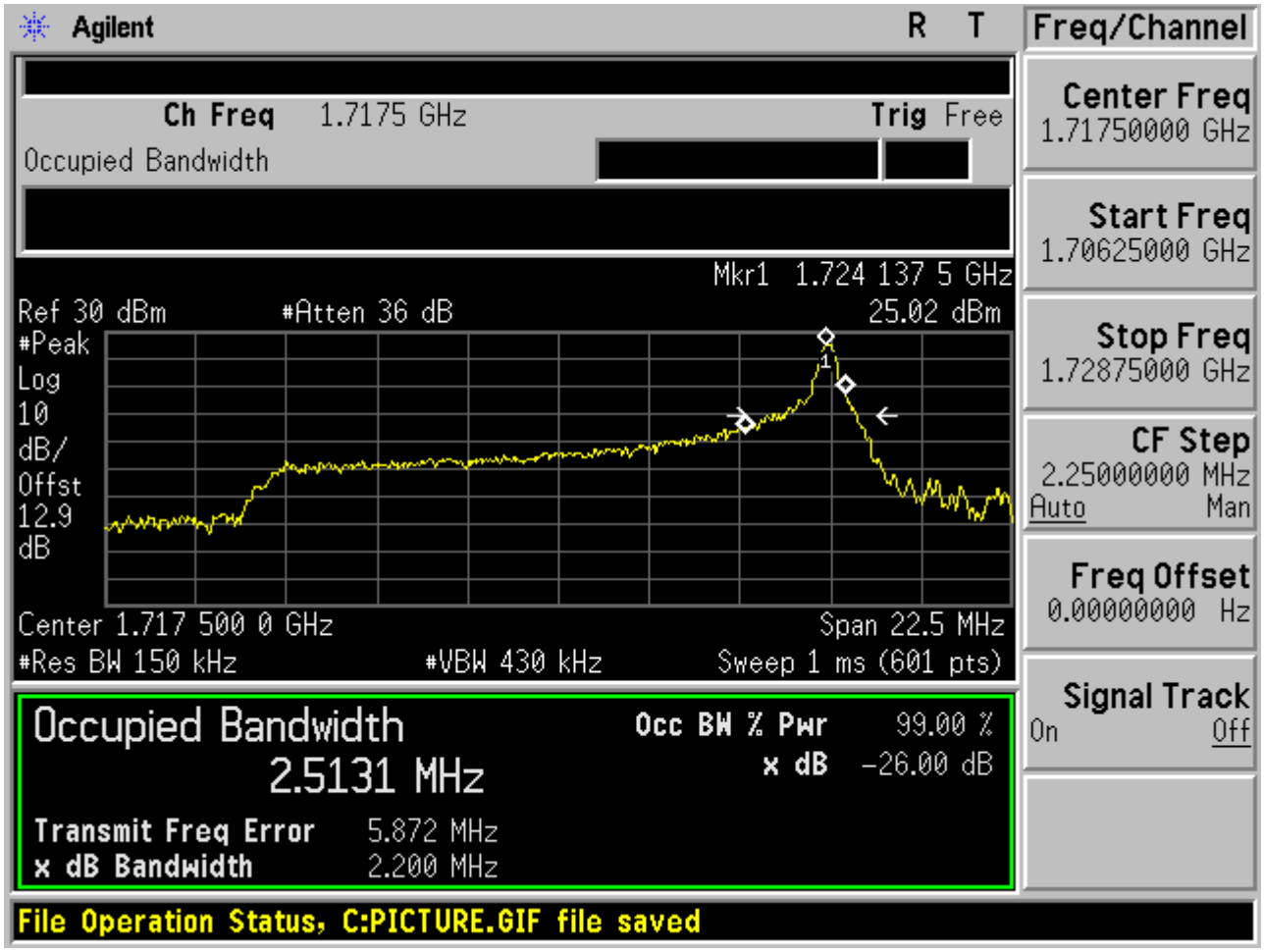
2.2.3 Channel Bandwidth = 15 MHz

2.2.3.1 Channel = B

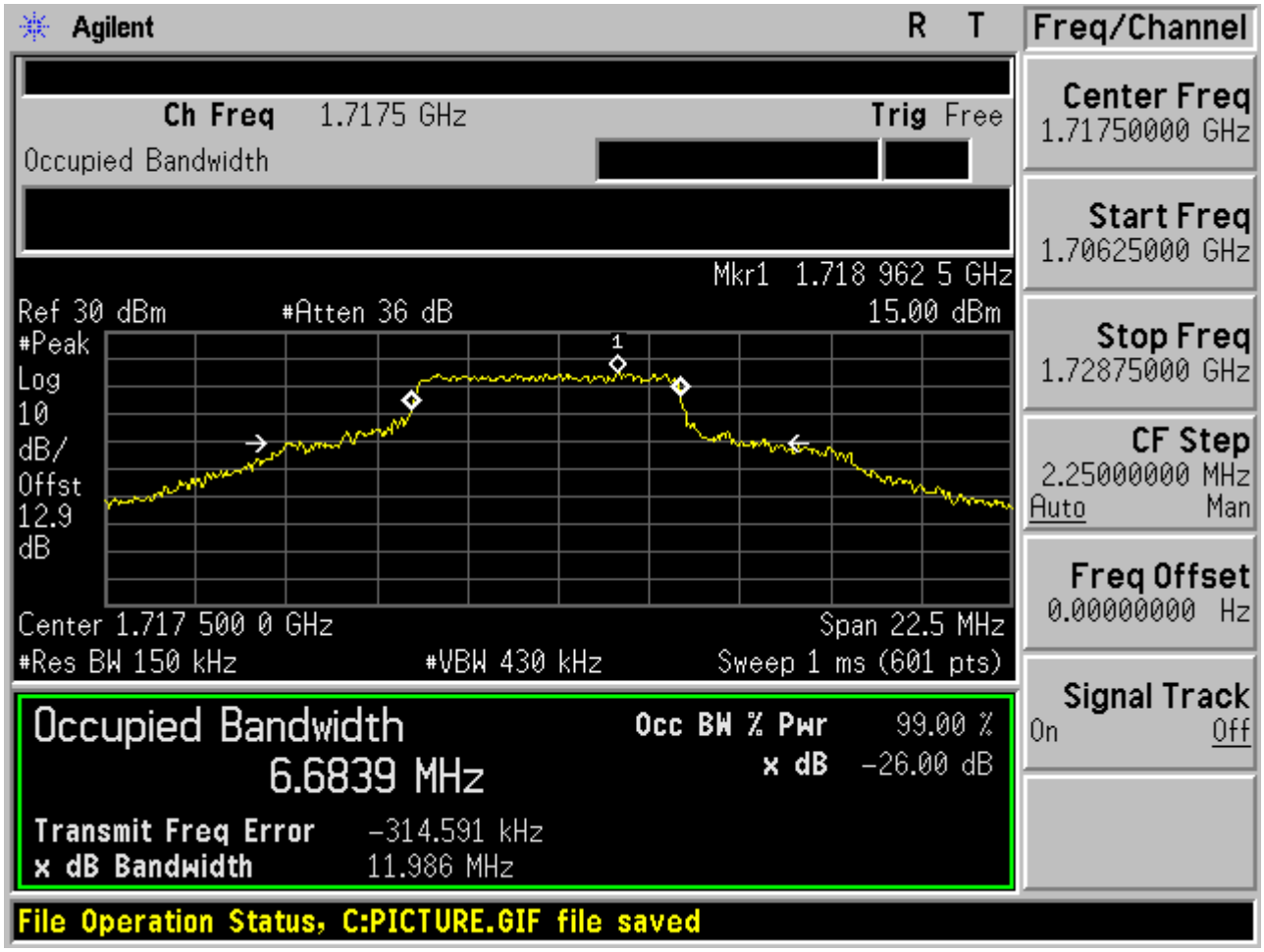
2.2.3.1.1 16QAM/1 RB#0



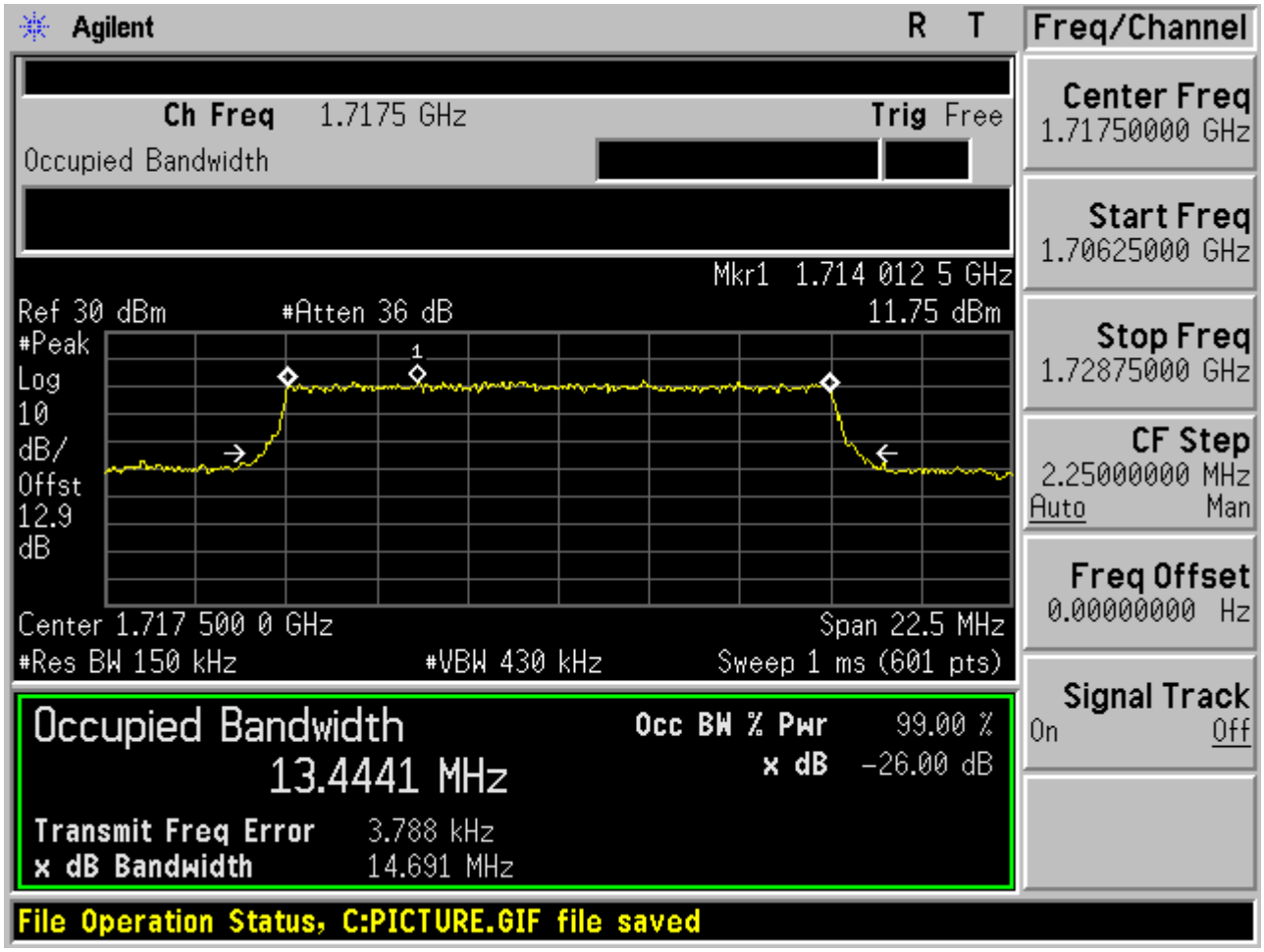
2.2.3.1.2 16QAM/1 RB#max



2.2.3.1.3 16QAM/ Partial RBs /RB #18

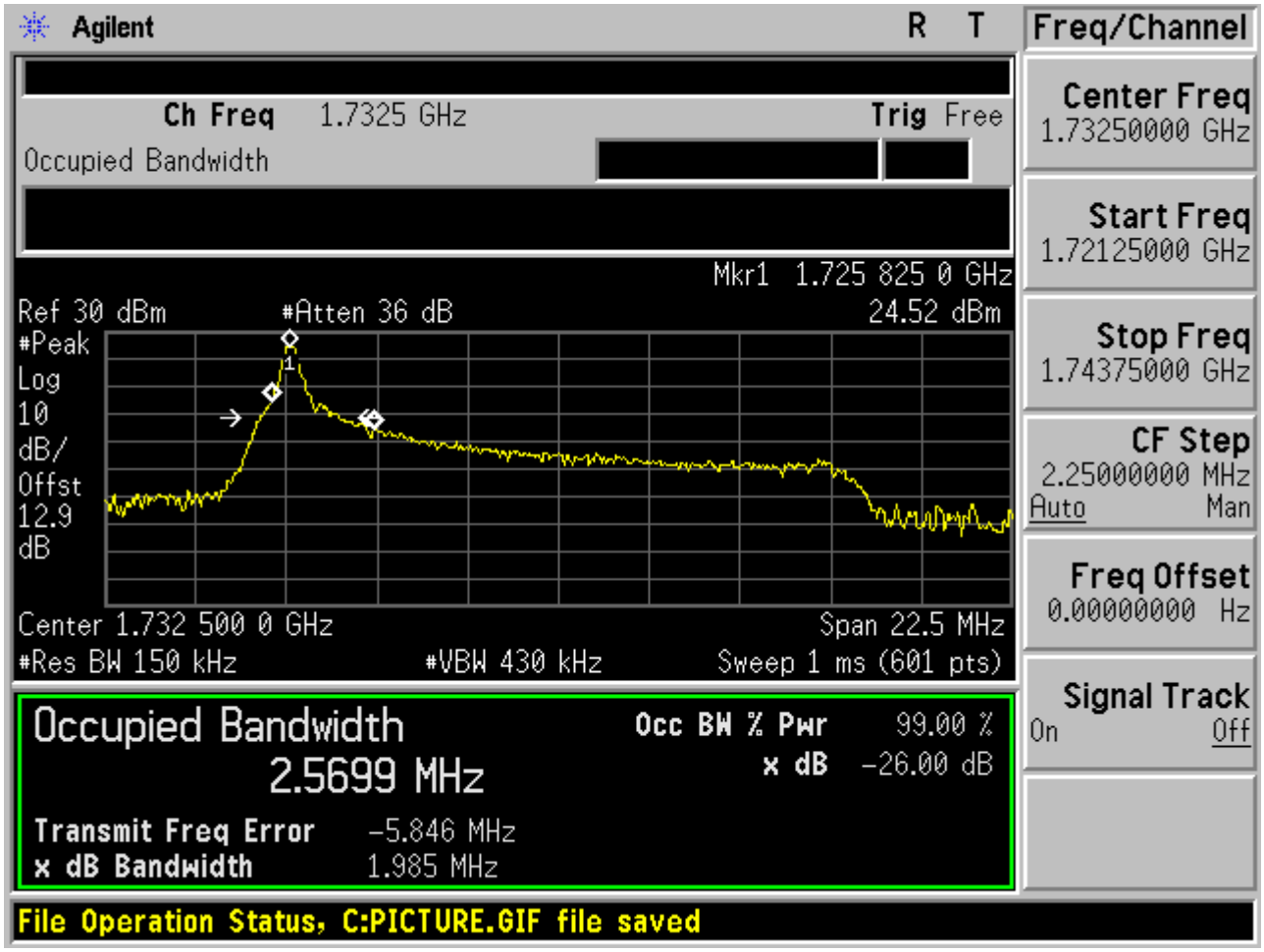


2.2.3.1.4 16QAM/full RBs

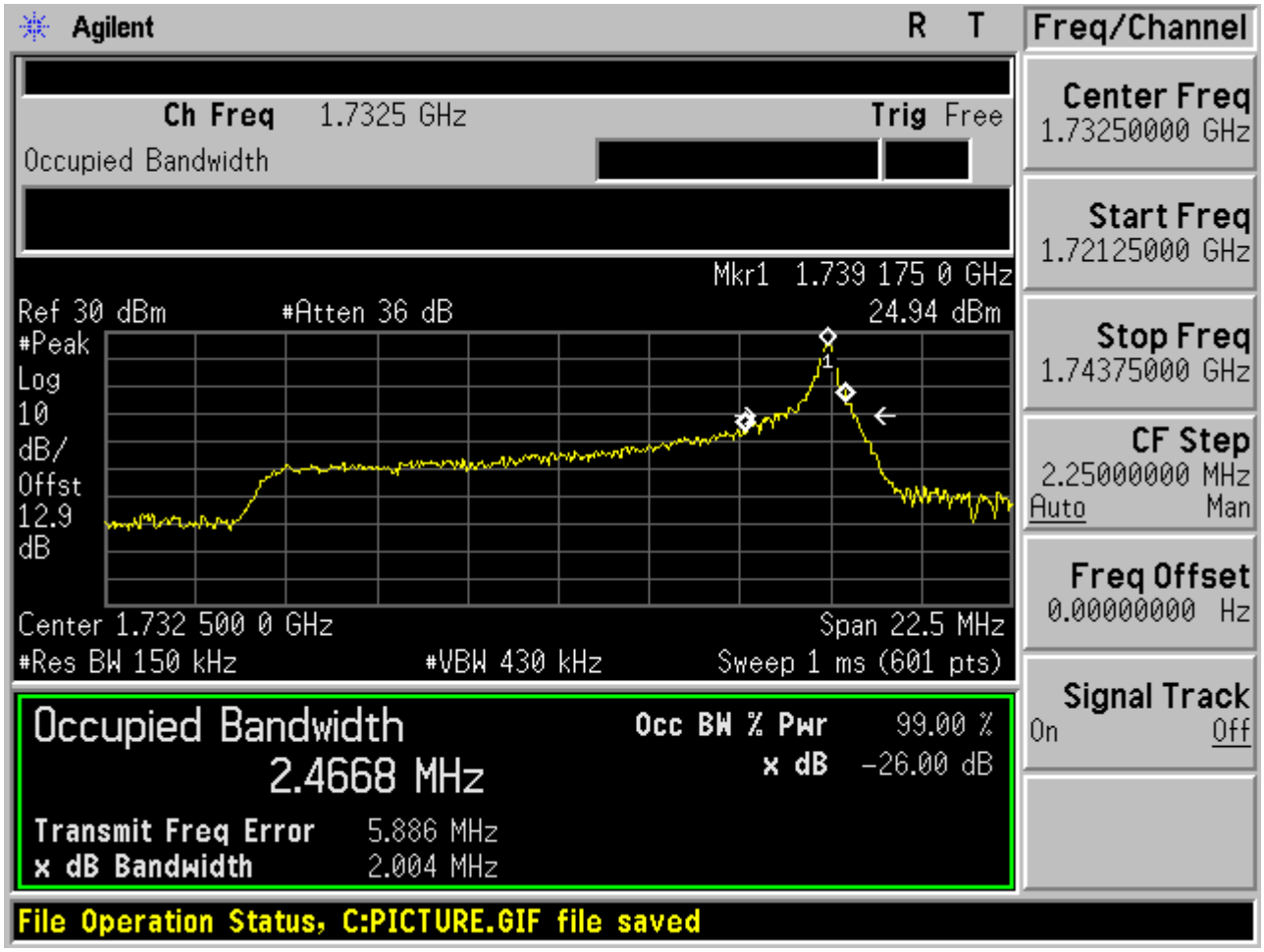


2.2.3.2 Channel = M

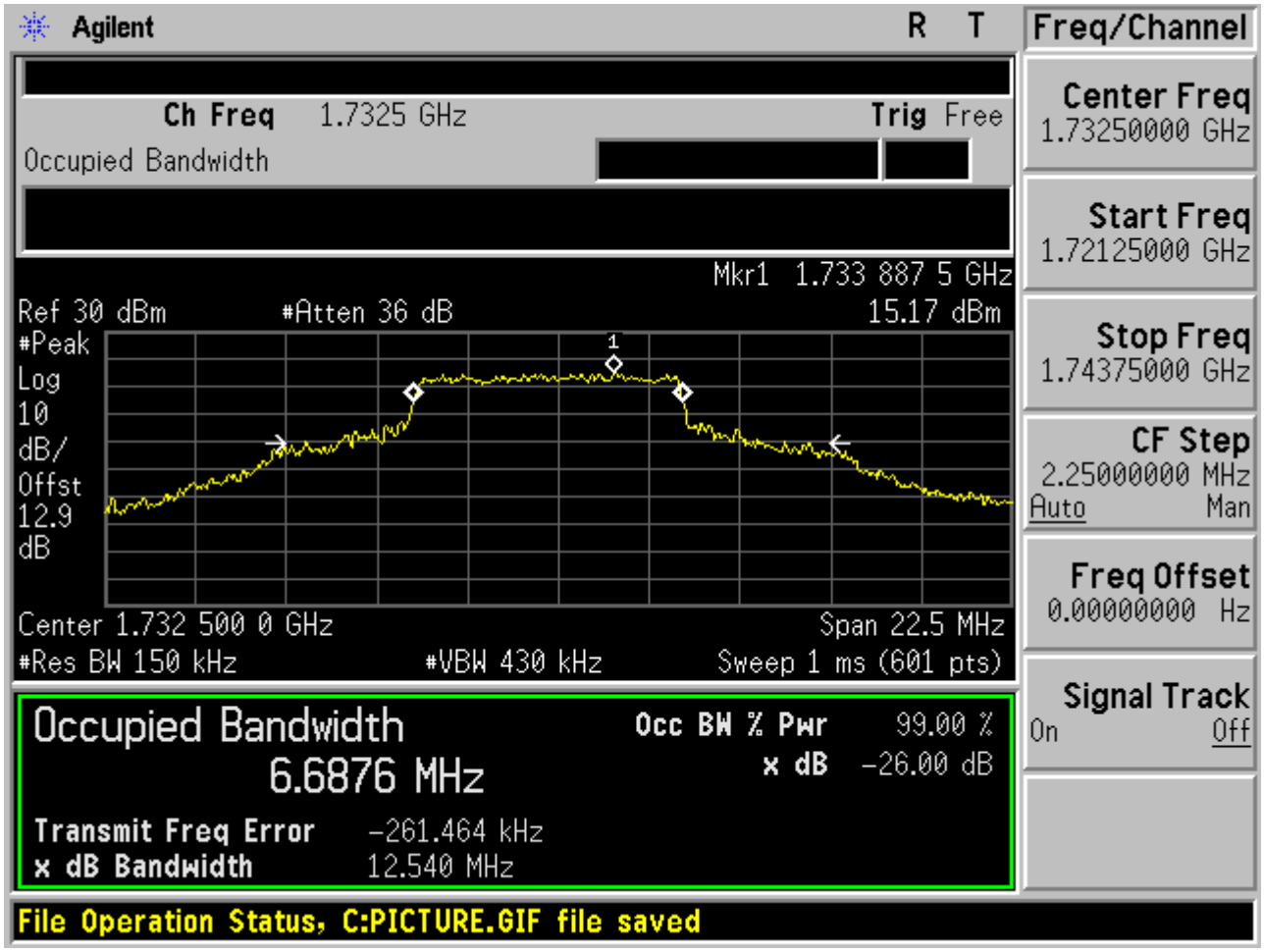
2.2.3.2.1 16QAM/1 RB#0



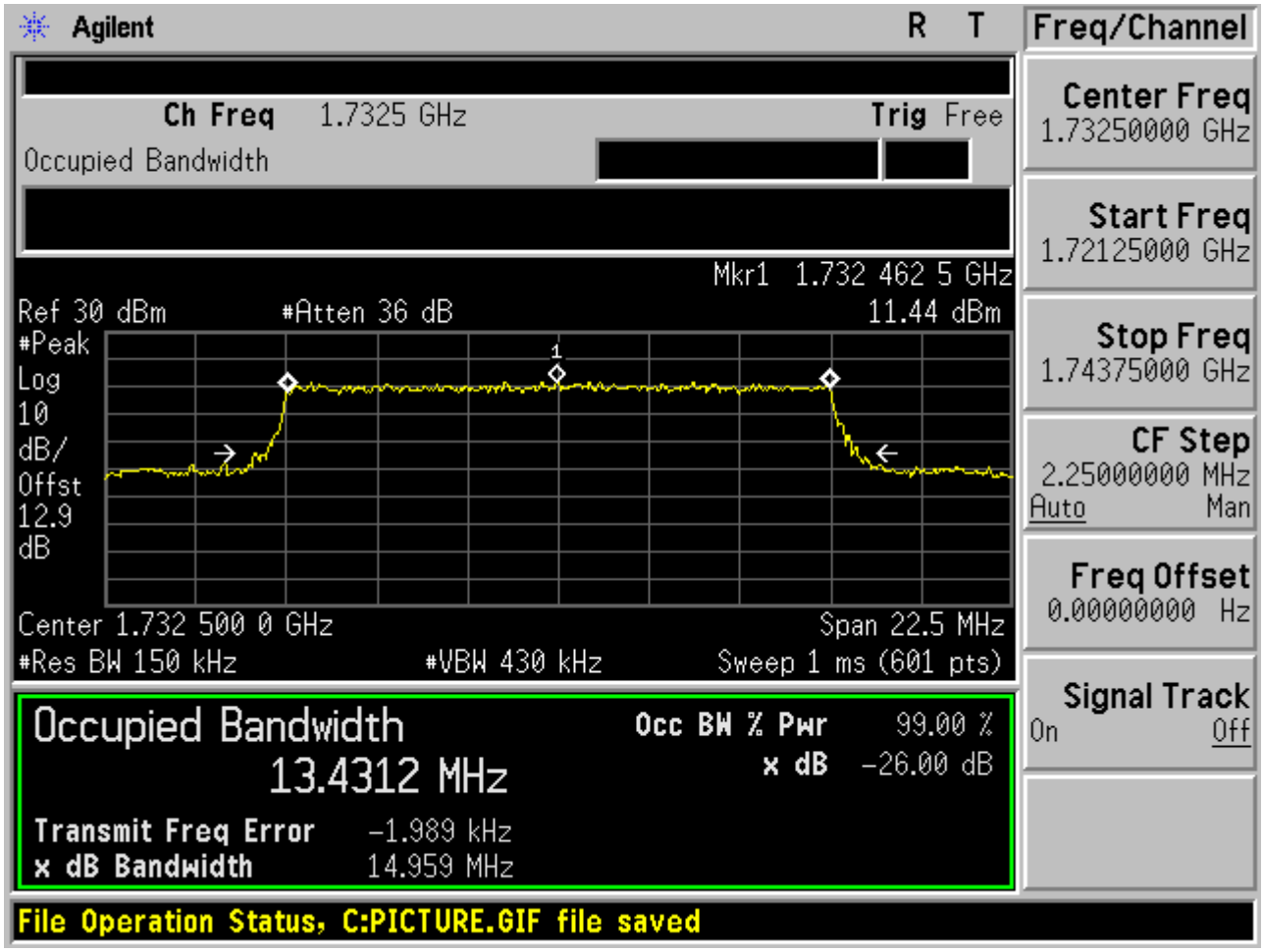
2.2.3.2.2 16QAM/1 RB#max



2.2.3.2.3 16QAM/ Partial RBs /RB #18

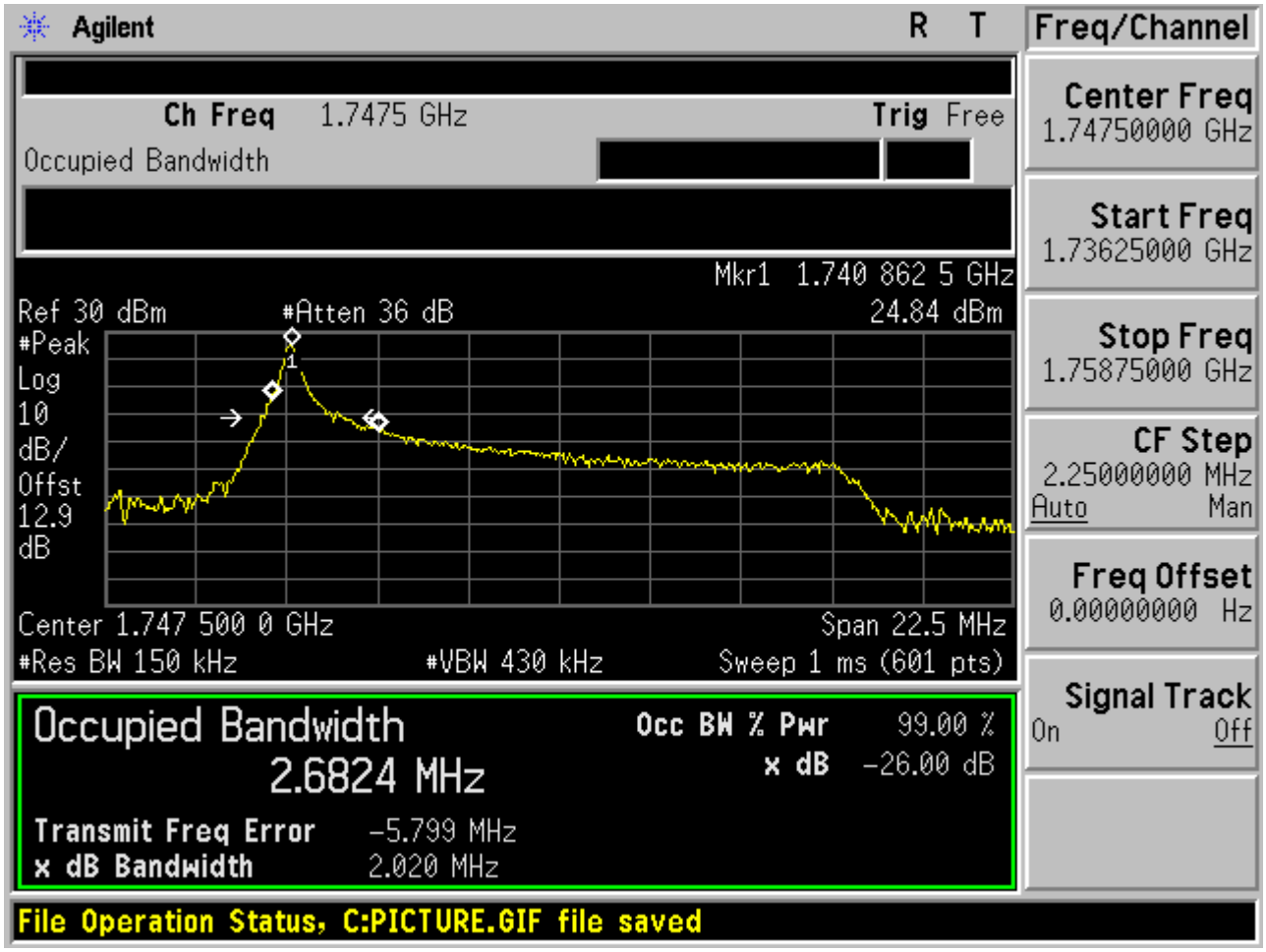


2.2.3.2.4 16QAM/full RBs

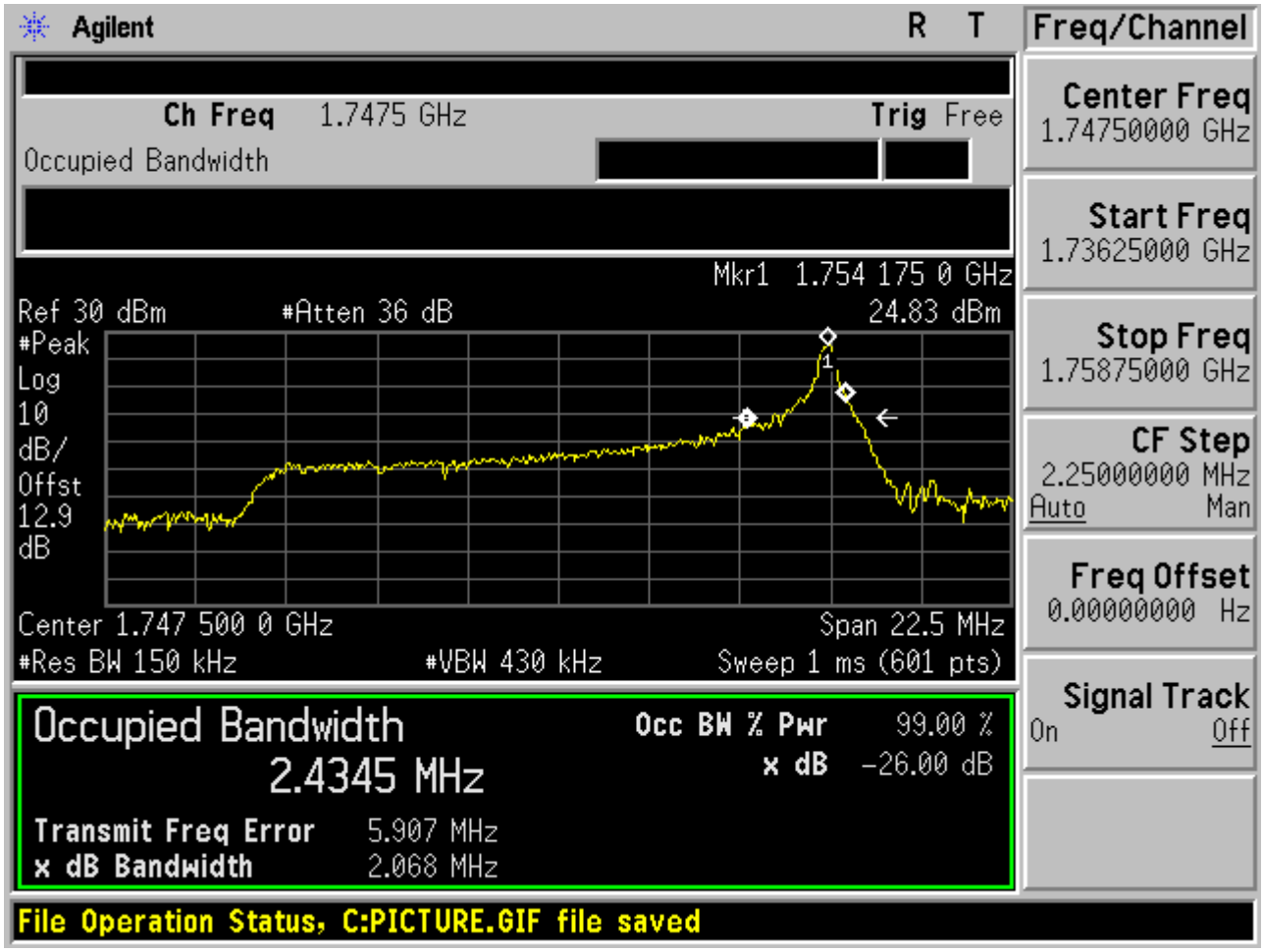

Agilent
R T
Freq/Channel
Ch Freq 1.7325 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.732 462 5 GHz
Ref 30 dBm
#Atten 36 dB
11.44 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.732 500 0 GHz
Span 22.5 MHz
#Res BW 150 kHz
#VBW 430 kHz
Sweep 1 ms (601 pts)
Occupied Bandwidth
13.4312 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error -1.989 kHz
x dB Bandwidth 14.959 MHz
Center Freq
1.73250000 GHz
Start Freq
1.72125000 GHz
Stop Freq
1.74375000 GHz
CF Step
2.25000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

2.2.3.3 Channel =T

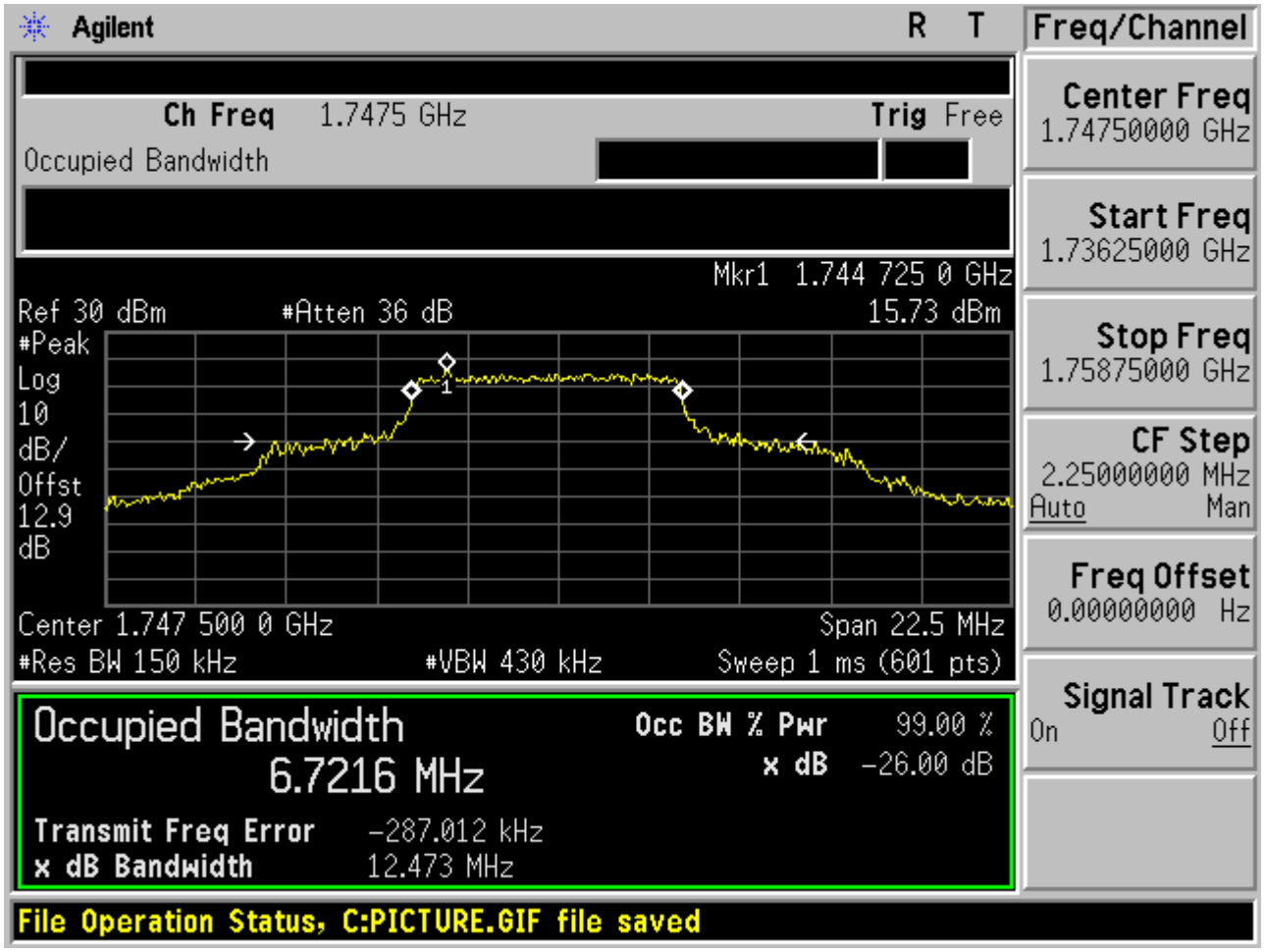
2.2.3.3.1 16QAM/1 RB#0



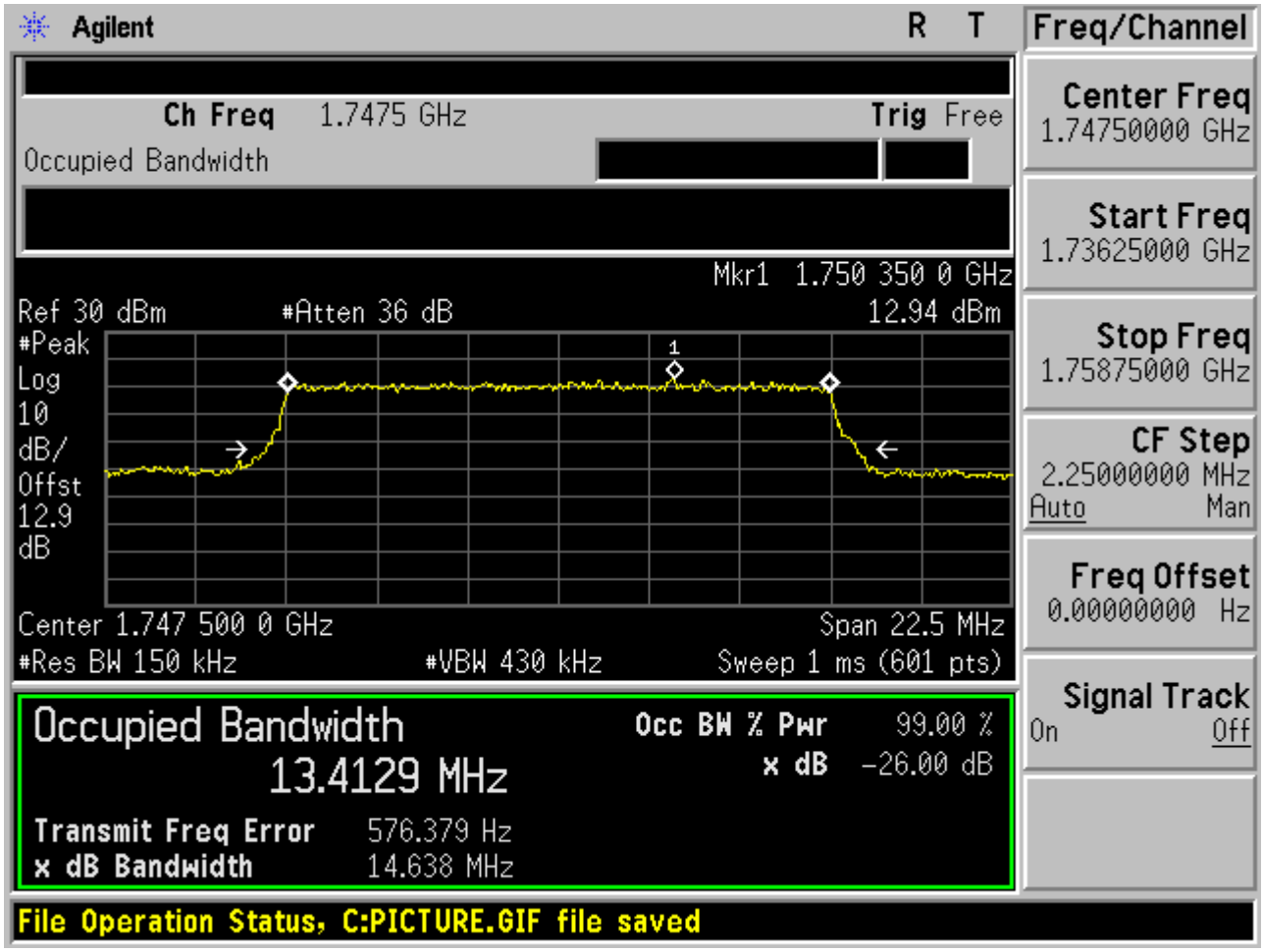
2.2.3.3.2 16QAM/1 RB#max



2.2.3.3.3 16QAM/ Partial RBs /RB #18



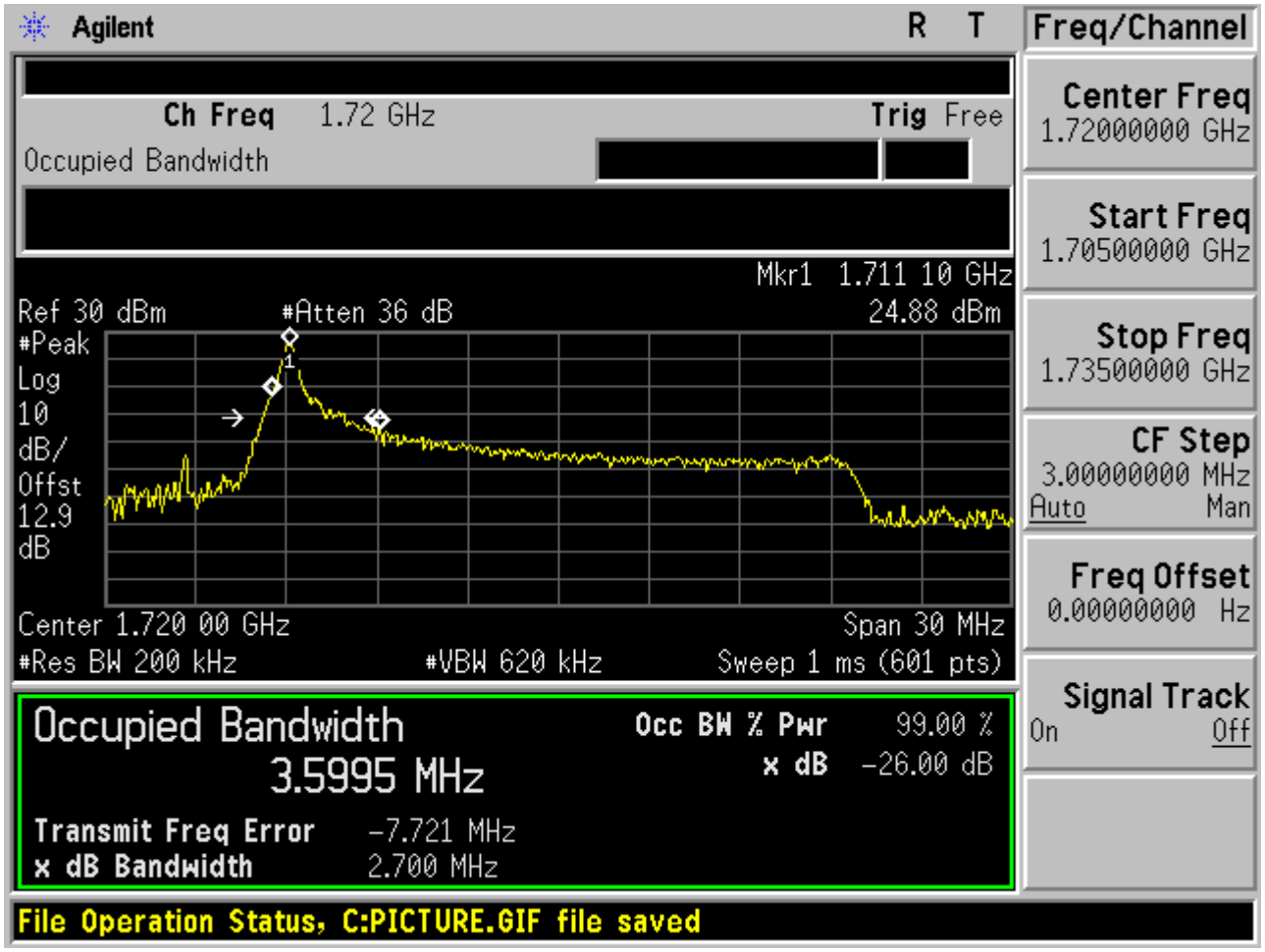
2.2.3.3.4 16QAM/full RBs


Agilent
R T
Freq/Channel
Ch Freq 1.7475 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.750 350 0 GHz
Ref 30 dBm
#Atten 36 dB
12.94 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.747 500 0 GHz
Span 22.5 MHz
#Res BW 150 kHz
#VBW 430 kHz
Sweep 1 ms (601 pts)
Occupied Bandwidth
13.4129 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 576.379 Hz
x dB Bandwidth 14.638 MHz
Center Freq
1.74750000 GHz
Start Freq
1.73625000 GHz
Stop Freq
1.75875000 GHz
CF Step
2.25000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

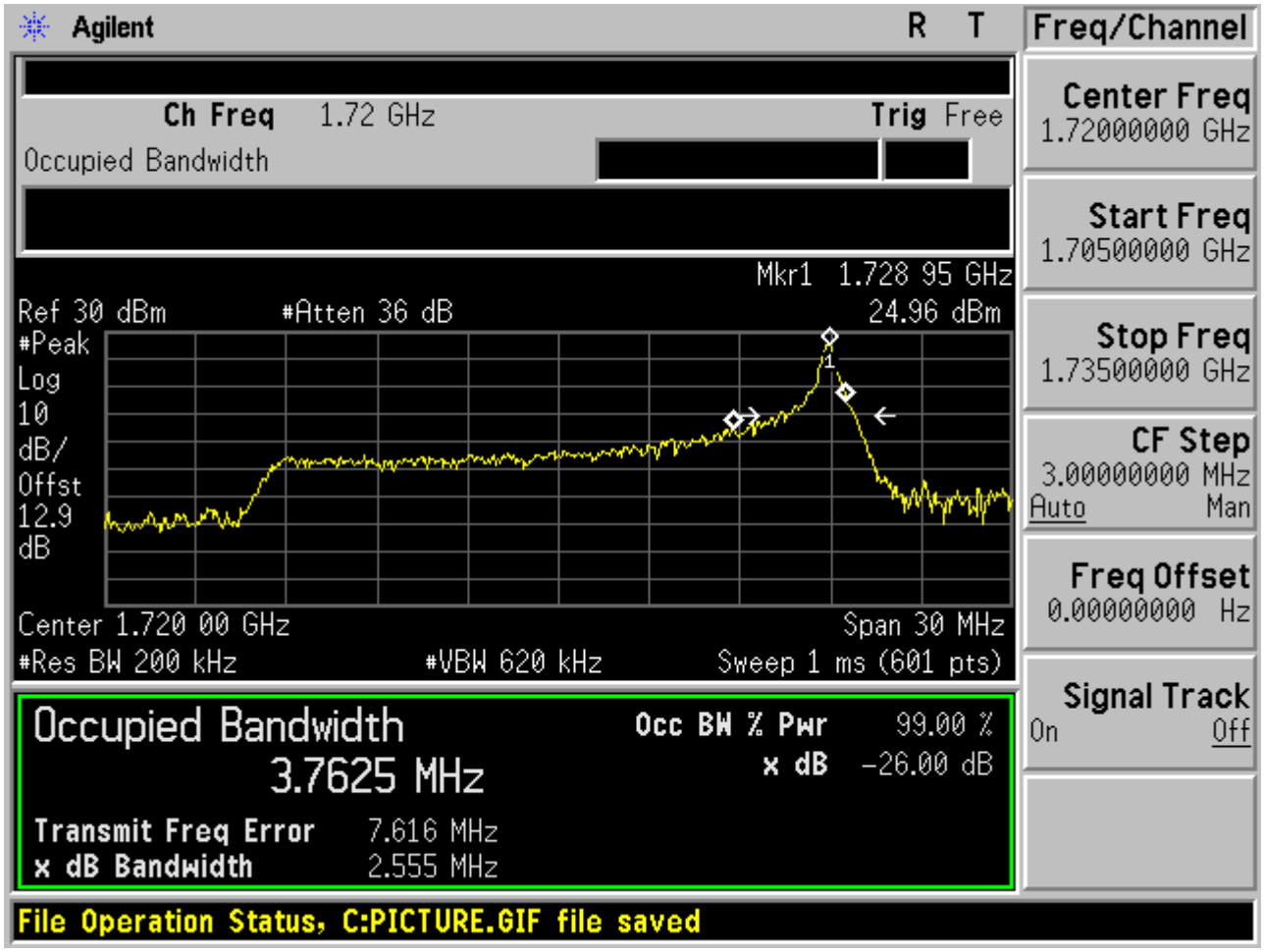
2.2.4 Channel Bandwidth = Highest (20 MHz)

2.2.4.1 Channel = B

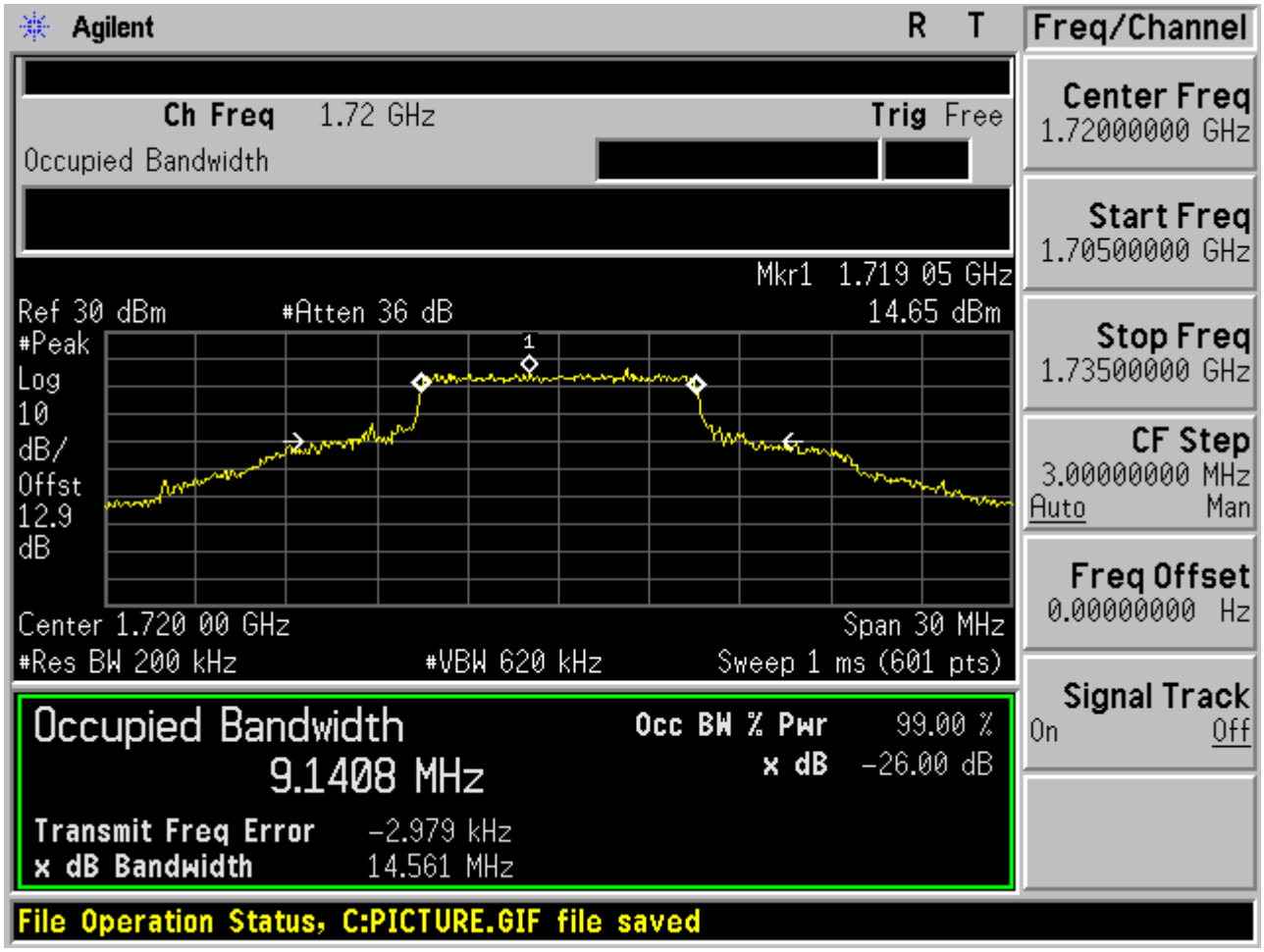
2.2.4.1.1 16QAM/1 RB#0



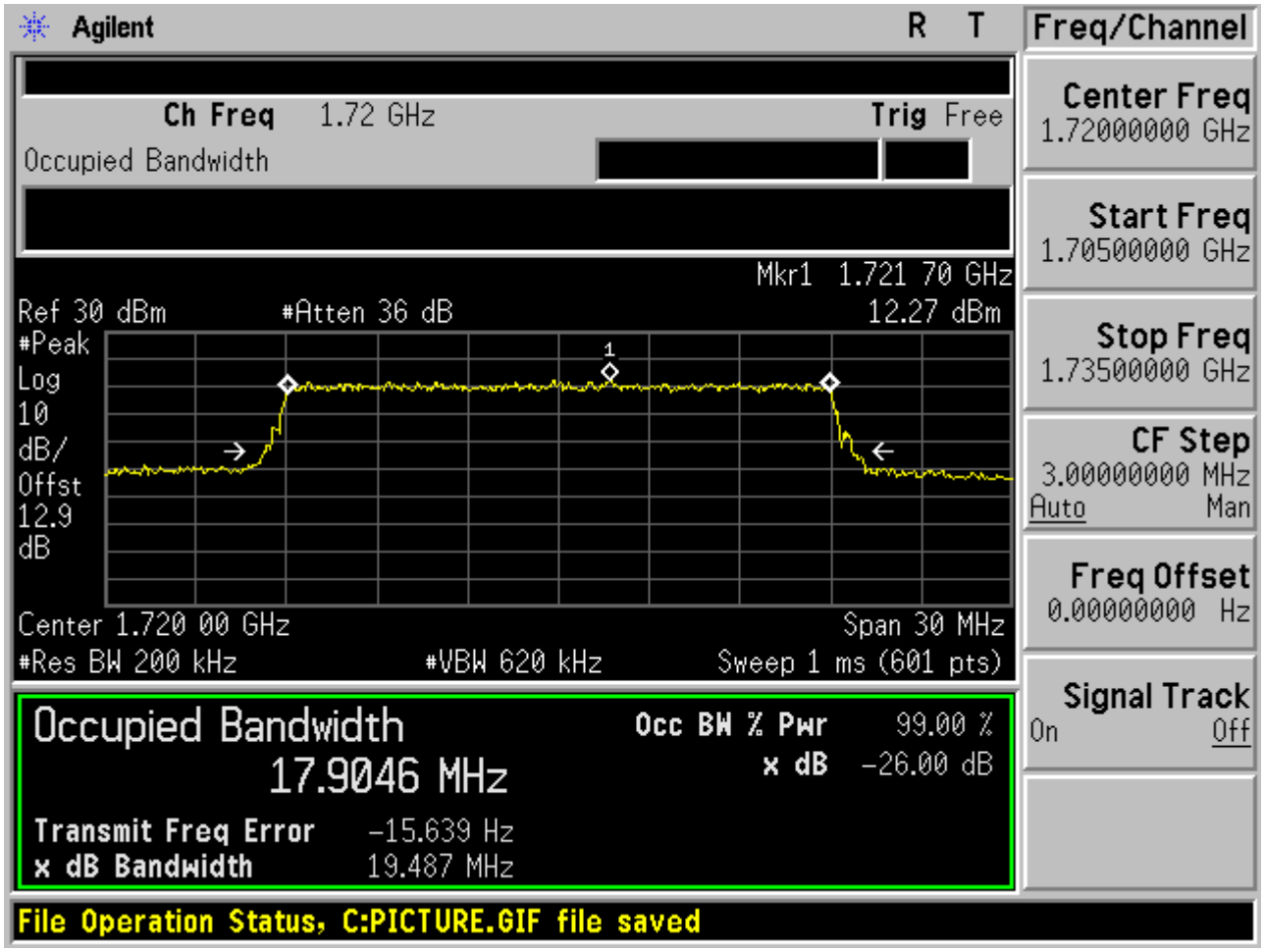
2.2.4.1.2 16QAM/1 RB#max



2.2.4.1.3 16QAM/ Partial RBs /RB #25

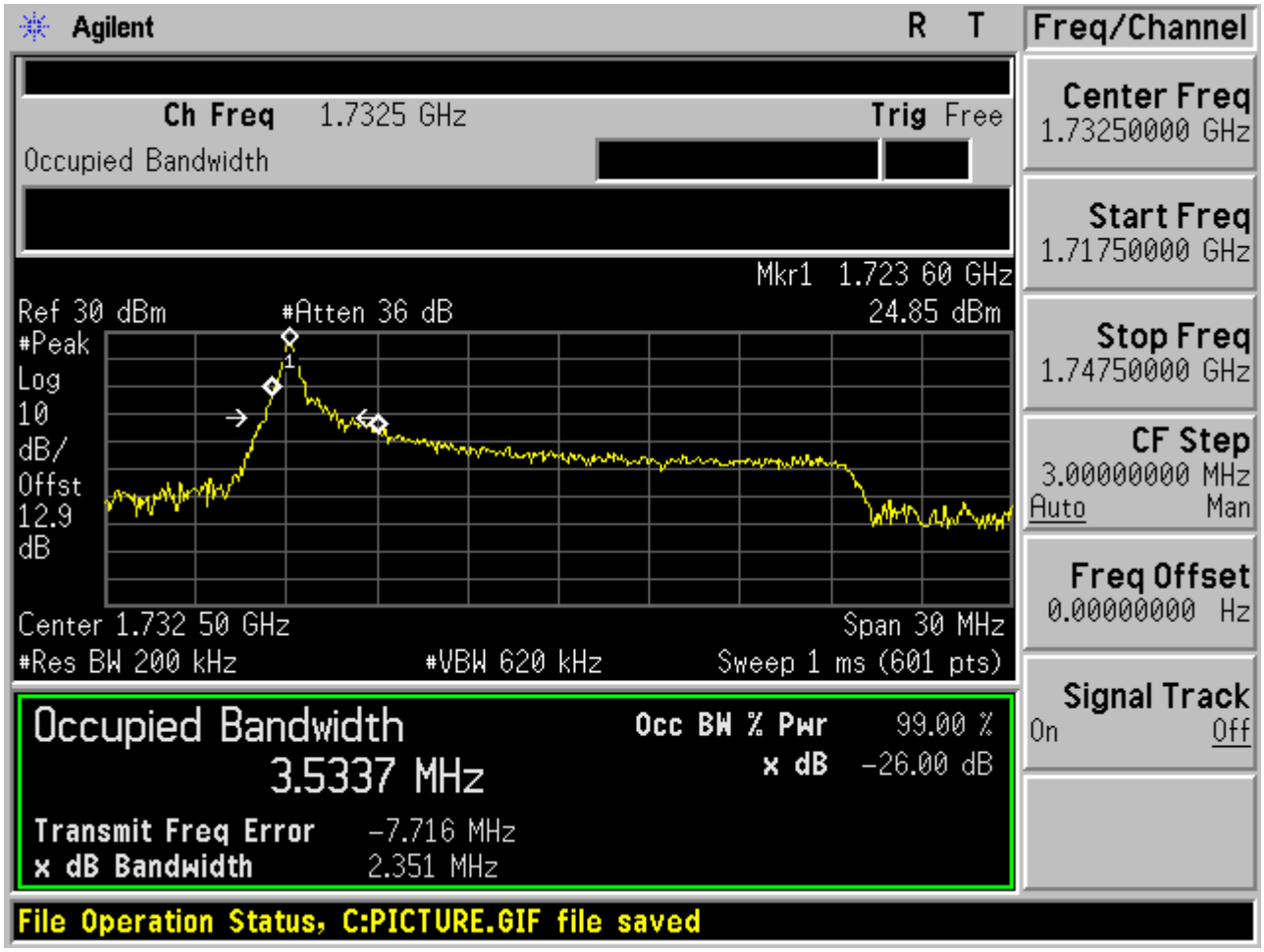


2.2.4.1.4 16QAM/full RBs

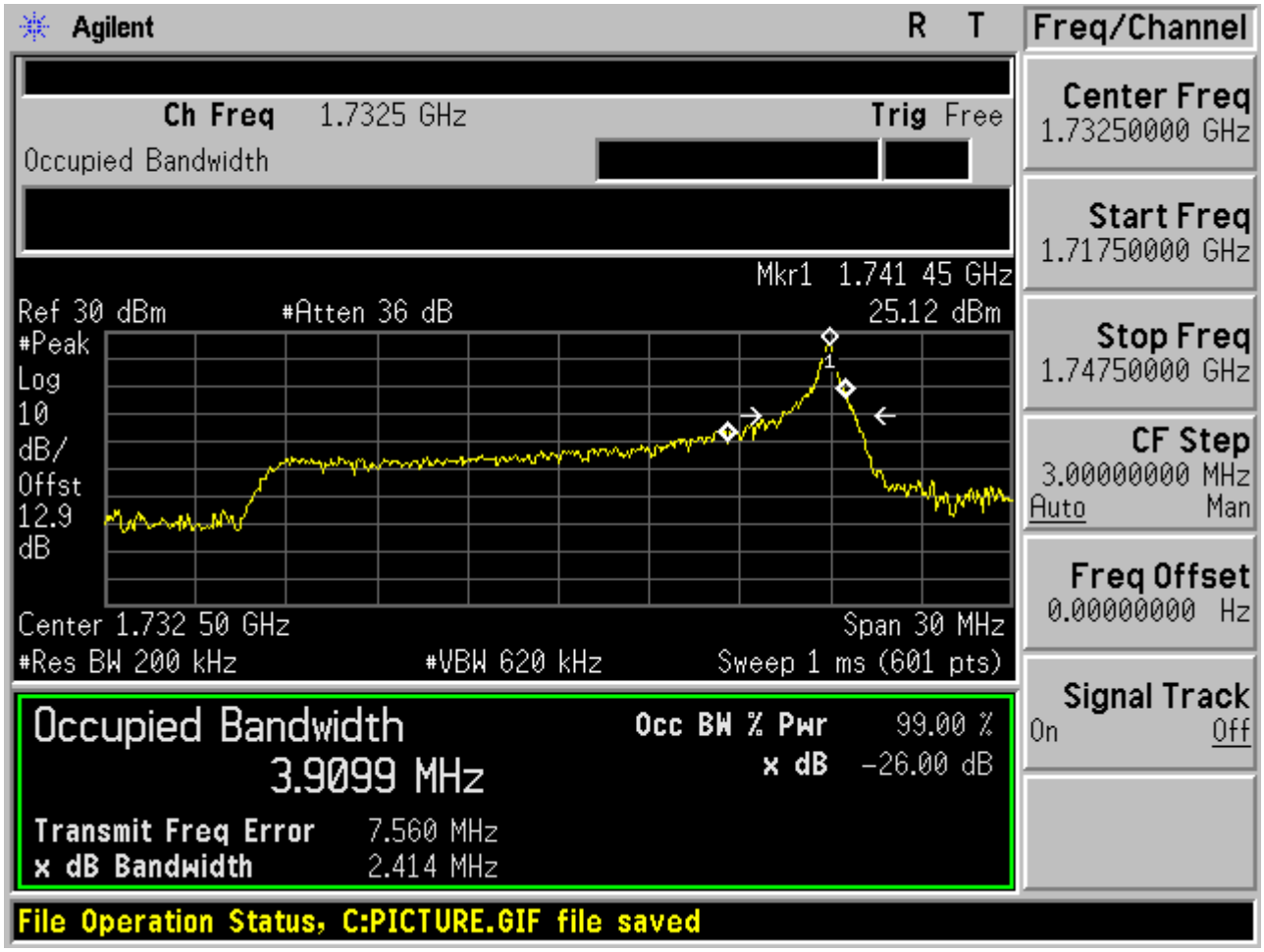


2.2.4.2 Channel = M

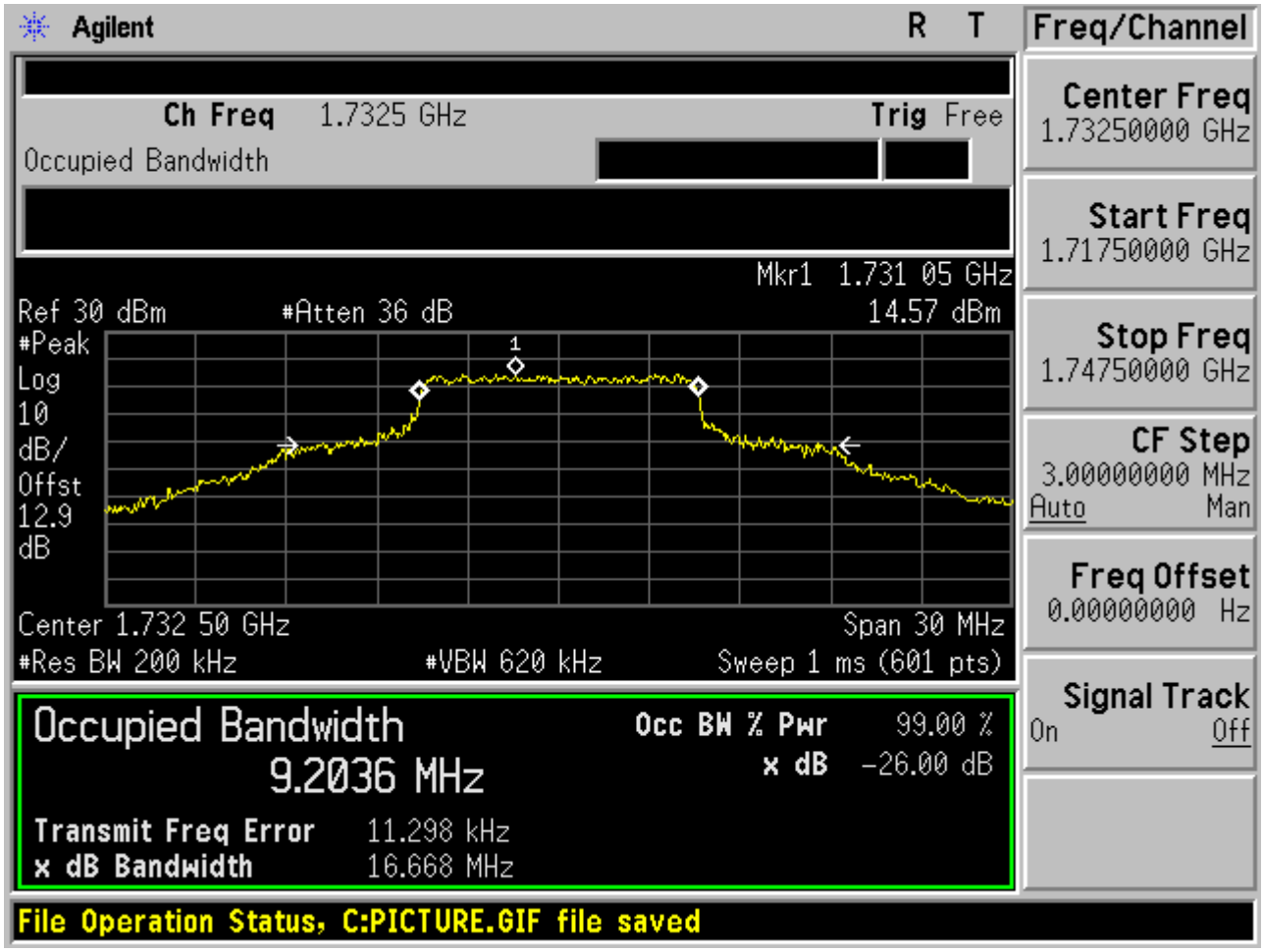
2.2.4.2.1 16QAM/1 RB#0



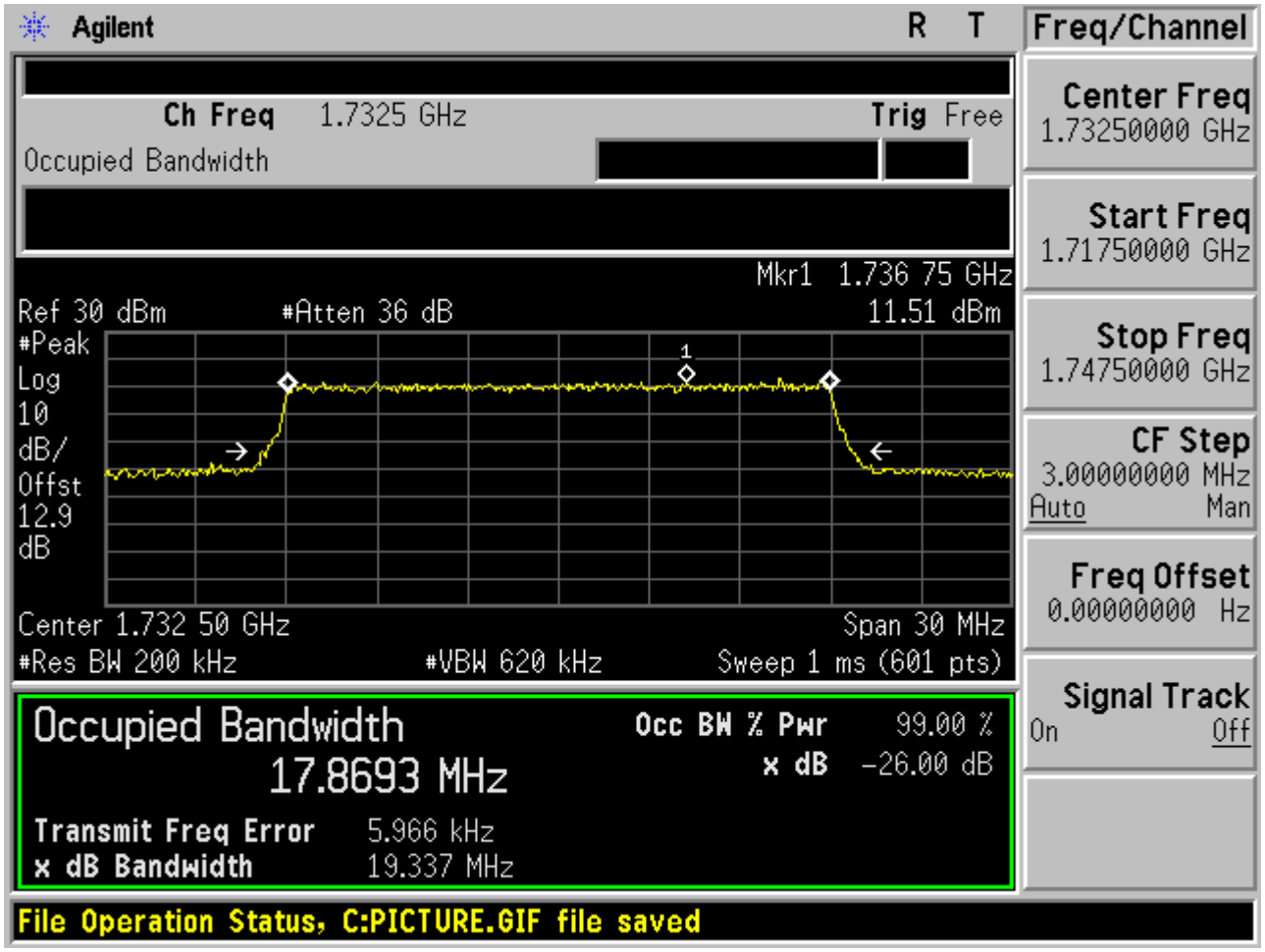
2.2.4.2.2 16QAM/1 RB#max



2.2.4.2.3 16QAM/ Partial RBs /RB #25

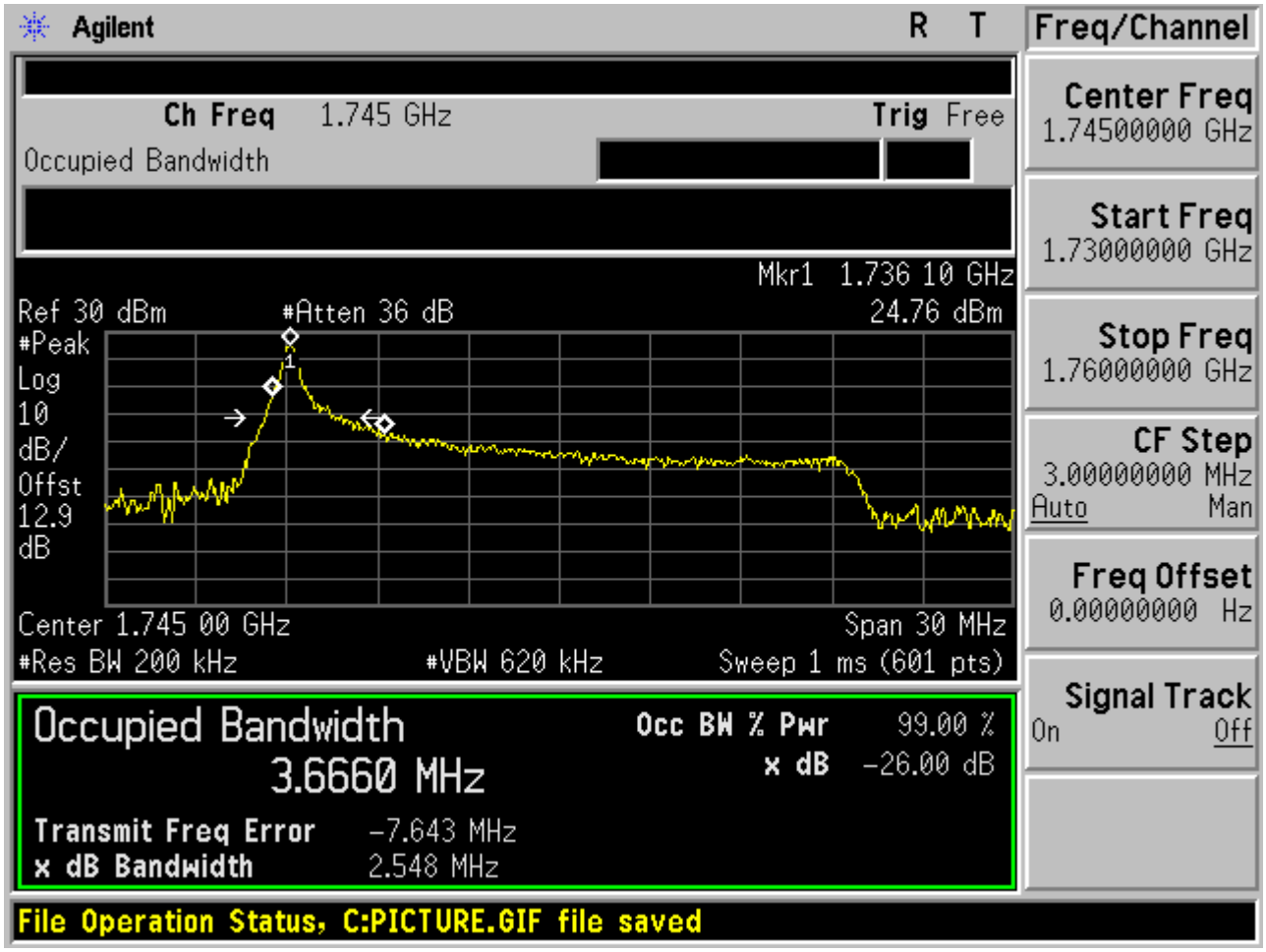


2.2.4.2.4 16QAM/full RBs

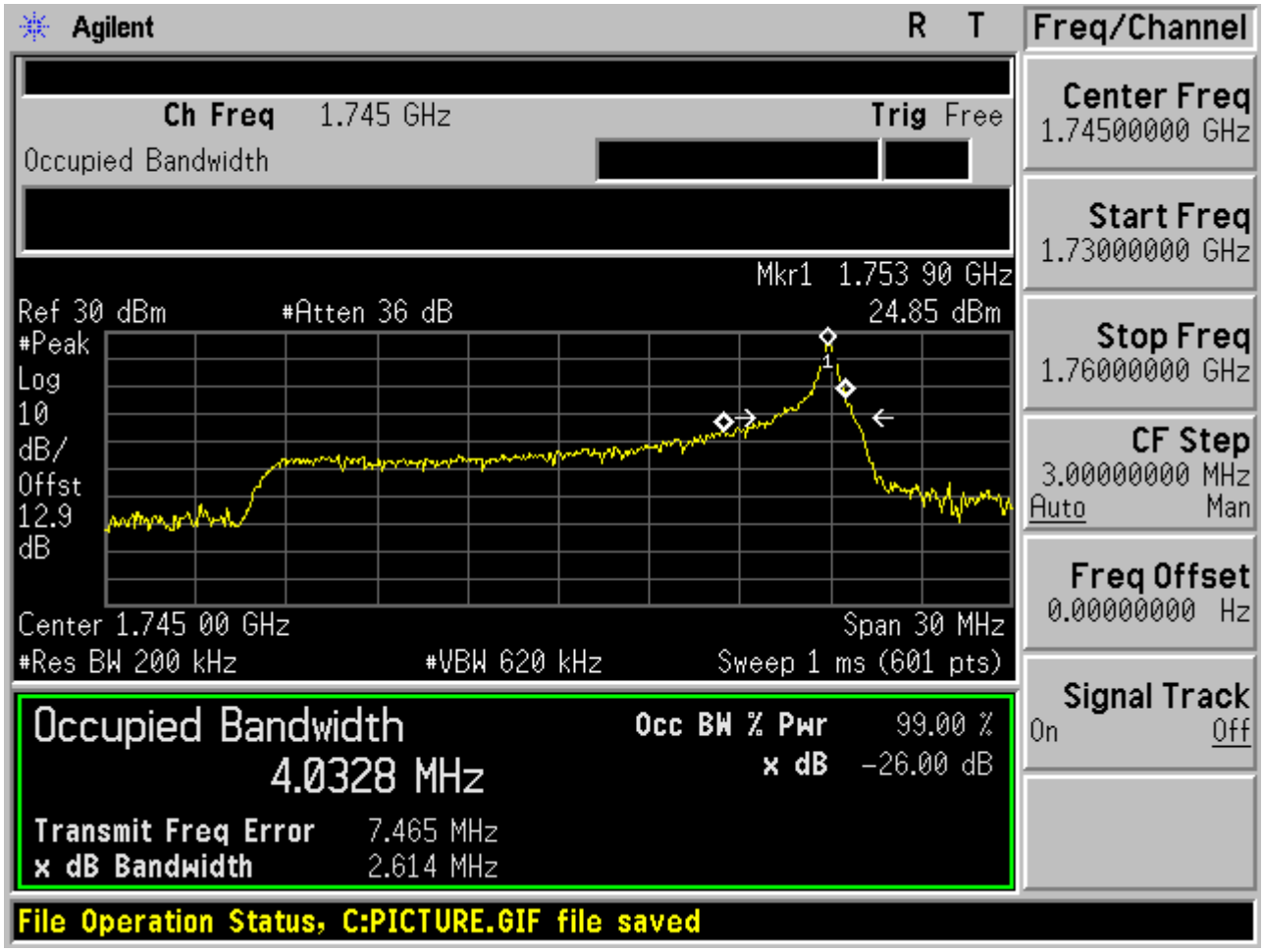

Agilent
R T
Freq/Channel
Ch Freq 1.7325 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.736 75 GHz
Ref 30 dBm
#Atten 36 dB
11.51 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.732 50 GHz
Span 30 MHz
#Res BW 200 kHz
#VBW 620 kHz
Sweep 1 ms (601 pts)
Occupied Bandwidth
17.8693 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 5.966 kHz
x dB Bandwidth 19.337 MHz
Center Freq
1.73250000 GHz
Start Freq
1.71750000 GHz
Stop Freq
1.74750000 GHz
CF Step
3.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

2.2.4.3 Channel =T

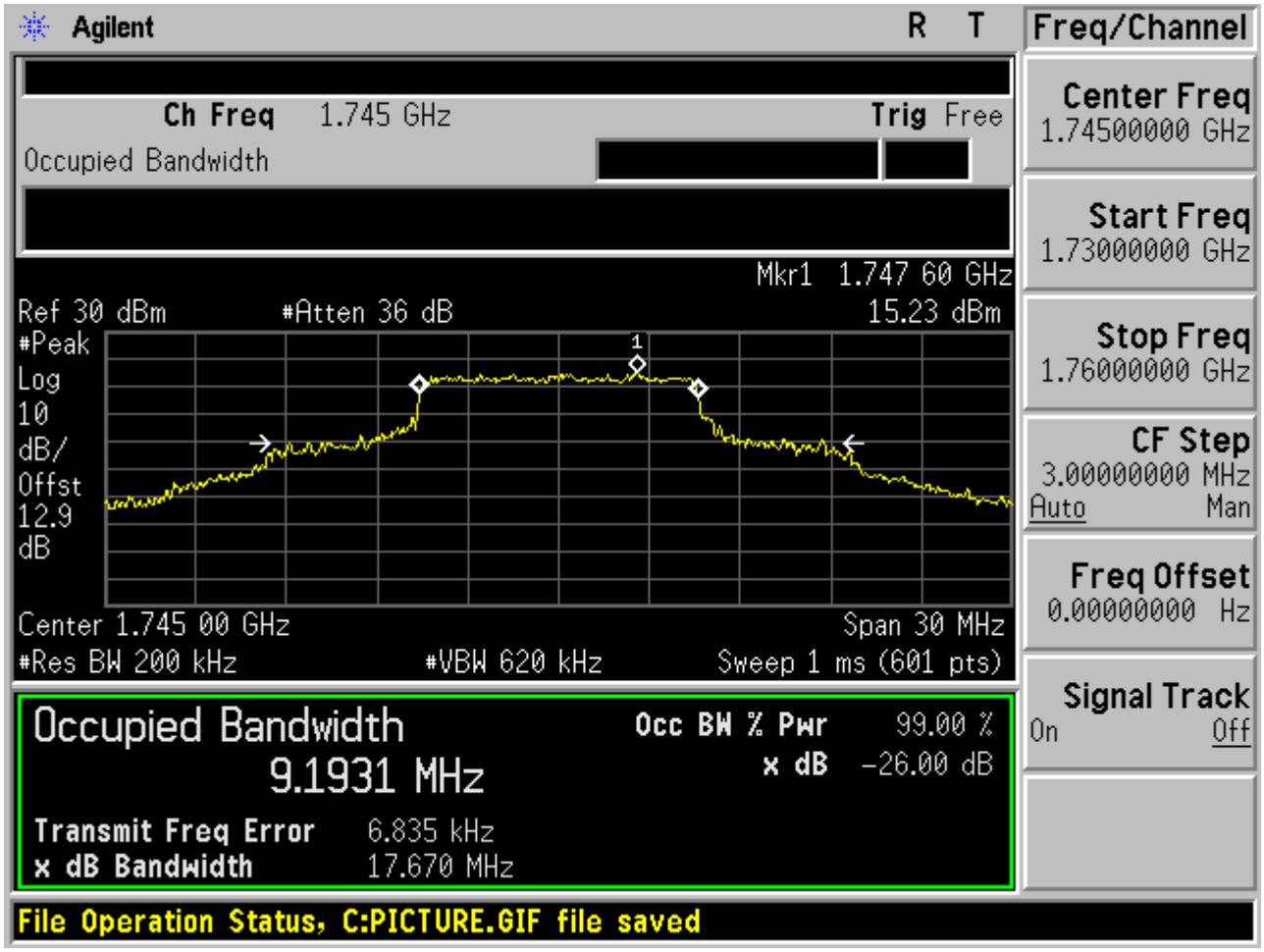
2.2.4.3.1 16QAM/1 RB#0



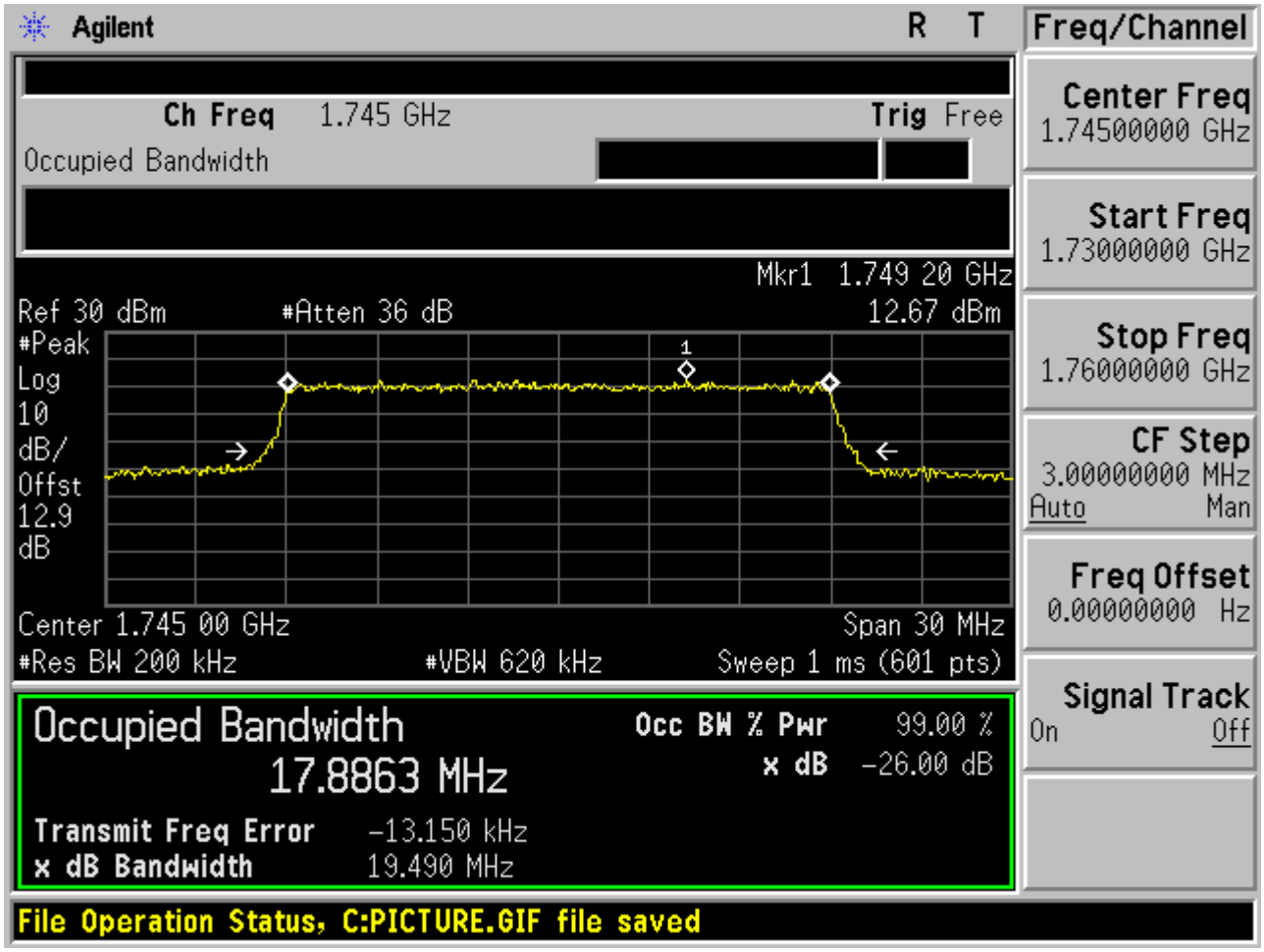
2.2.4.3.2 16QAM/1 RB#max



2.2.4.3.3 16QAM/ Partial RBs /RB #25



2.2.4.3.4 16QAM/full RBs


Agilent
R T
Freq/Channel
Ch Freq 1.745 GHz
Trig Free
Occupied Bandwidth
Mkr1 1.749 20 GHz
Ref 30 dBm
#Atten 36 dB
12.67 dBm
#Peak
Log
10
dB/
Offst
12.9
dB
1
Center 1.745 00 GHz
Span 30 MHz
#Res BW 200 kHz
#VBW 620 kHz
Sweep 1 ms (601 pts)
Occupied Bandwidth
17.8863 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error -13.150 kHz
x dB Bandwidth 19.490 MHz
Center Freq
1.74500000 GHz
Start Freq
1.73000000 GHz
Stop Freq
1.76000000 GHz
CF Step
3.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

----------END----------

Appendix D

Band Edges Compliance

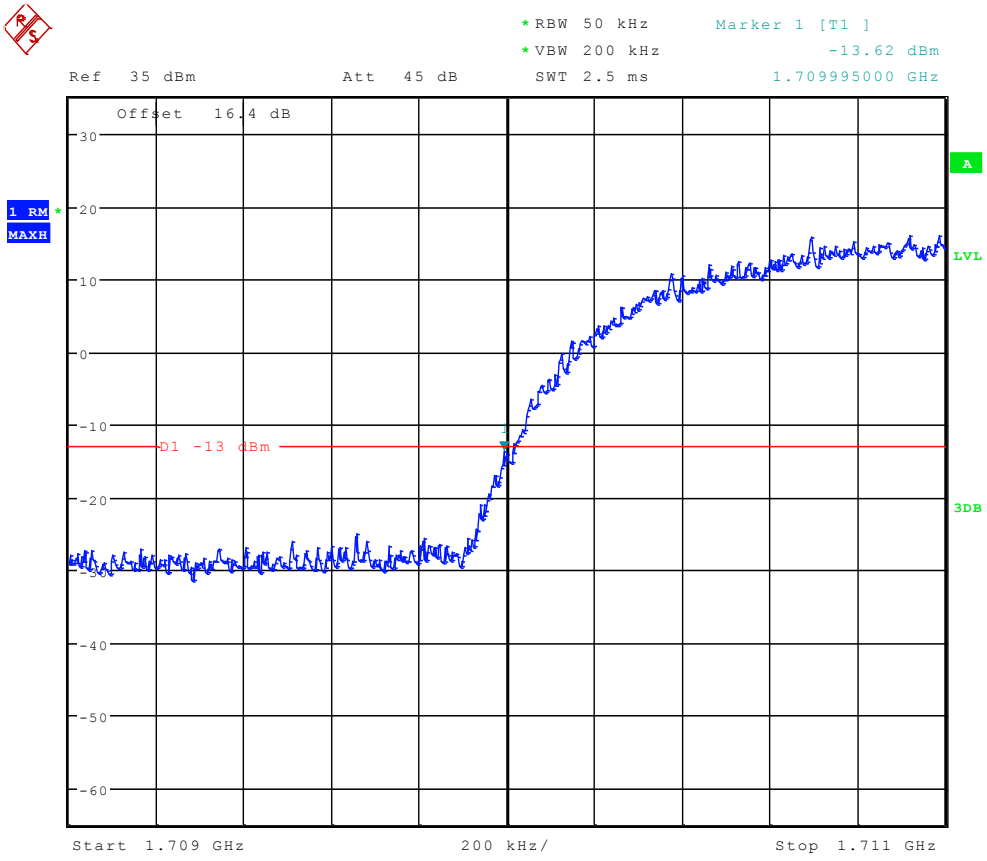
According to FCC Part 2.1051 & 27 Subpart C&L

TABLE OF CONTENTS

1 For WCDMA Band 4

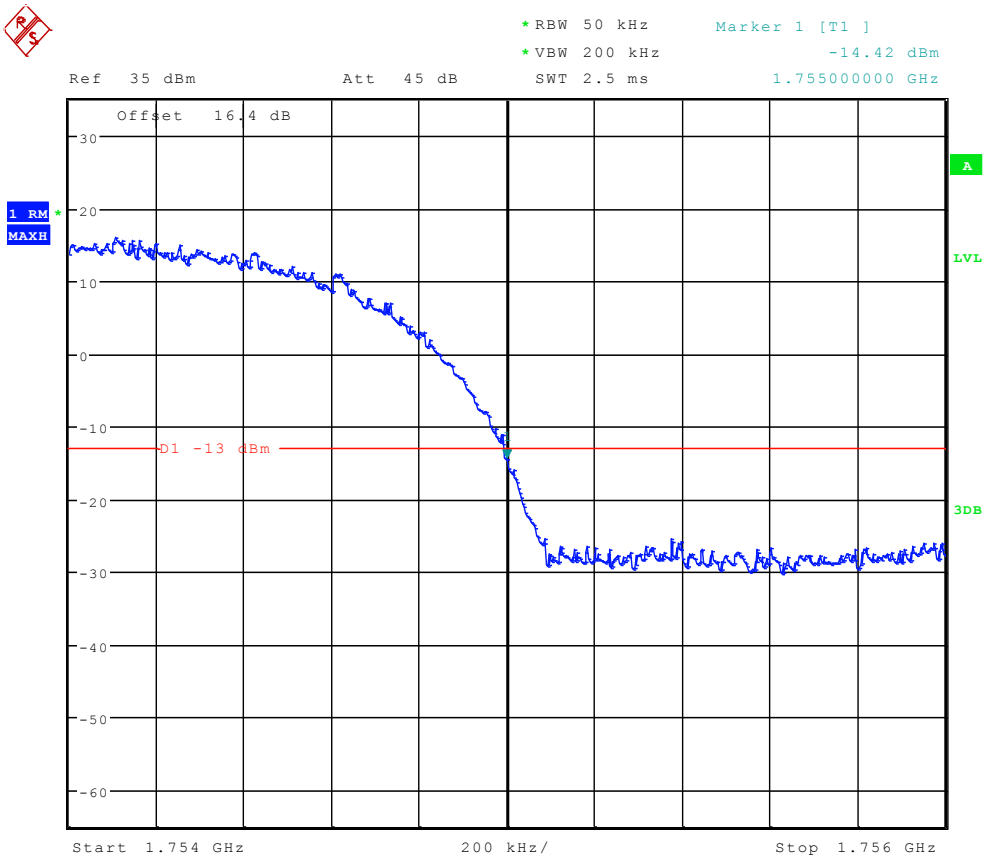
1.1 Test Mode=TM1

1.1.1 Channel B



Date: 31.MAY.2012 11:56:01

1.1.2 Channel T



Date: 31.MAY.2012 11:56:15

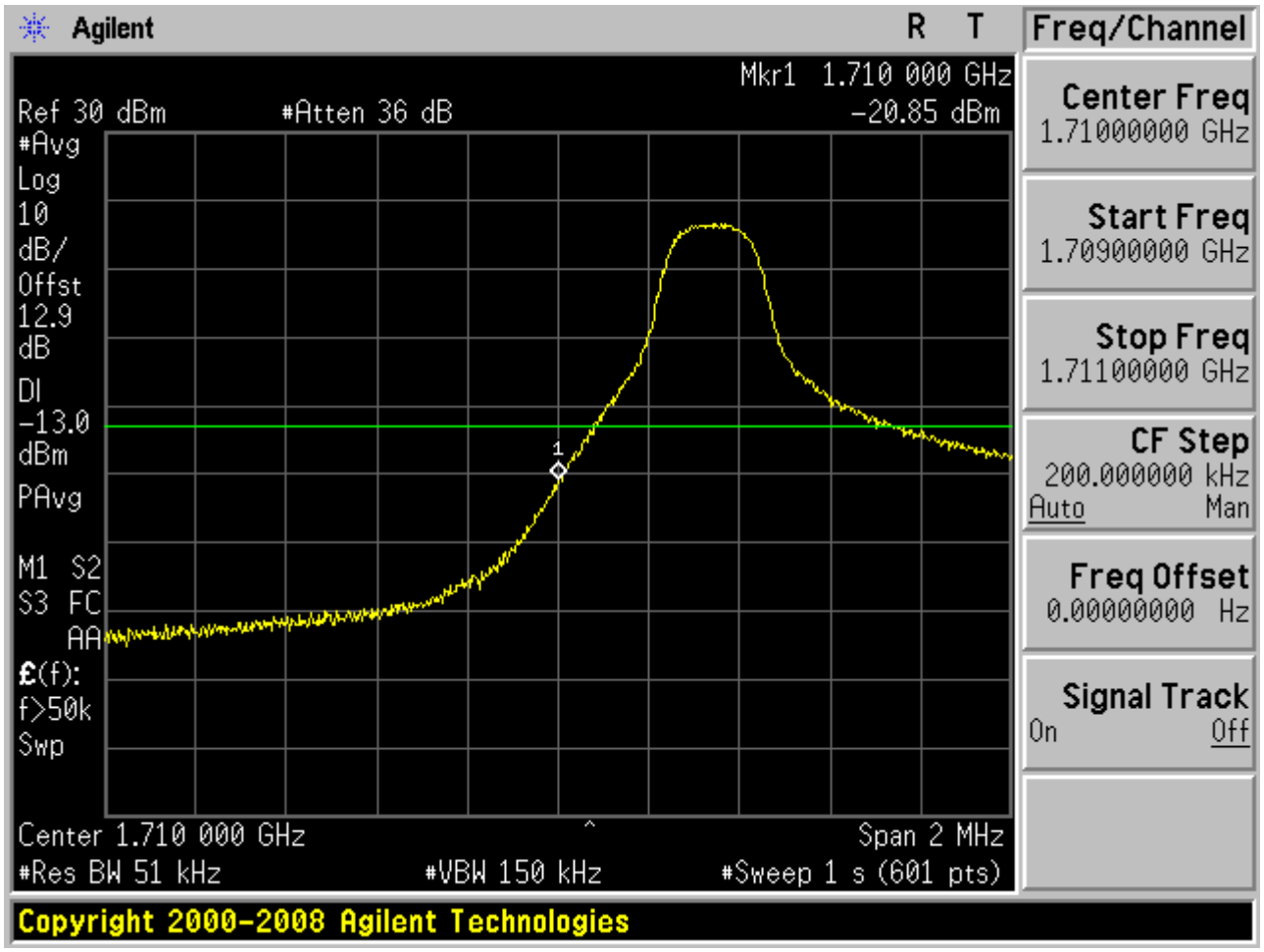
2 For LTE Band 4

2.1 Test Mode=TM5

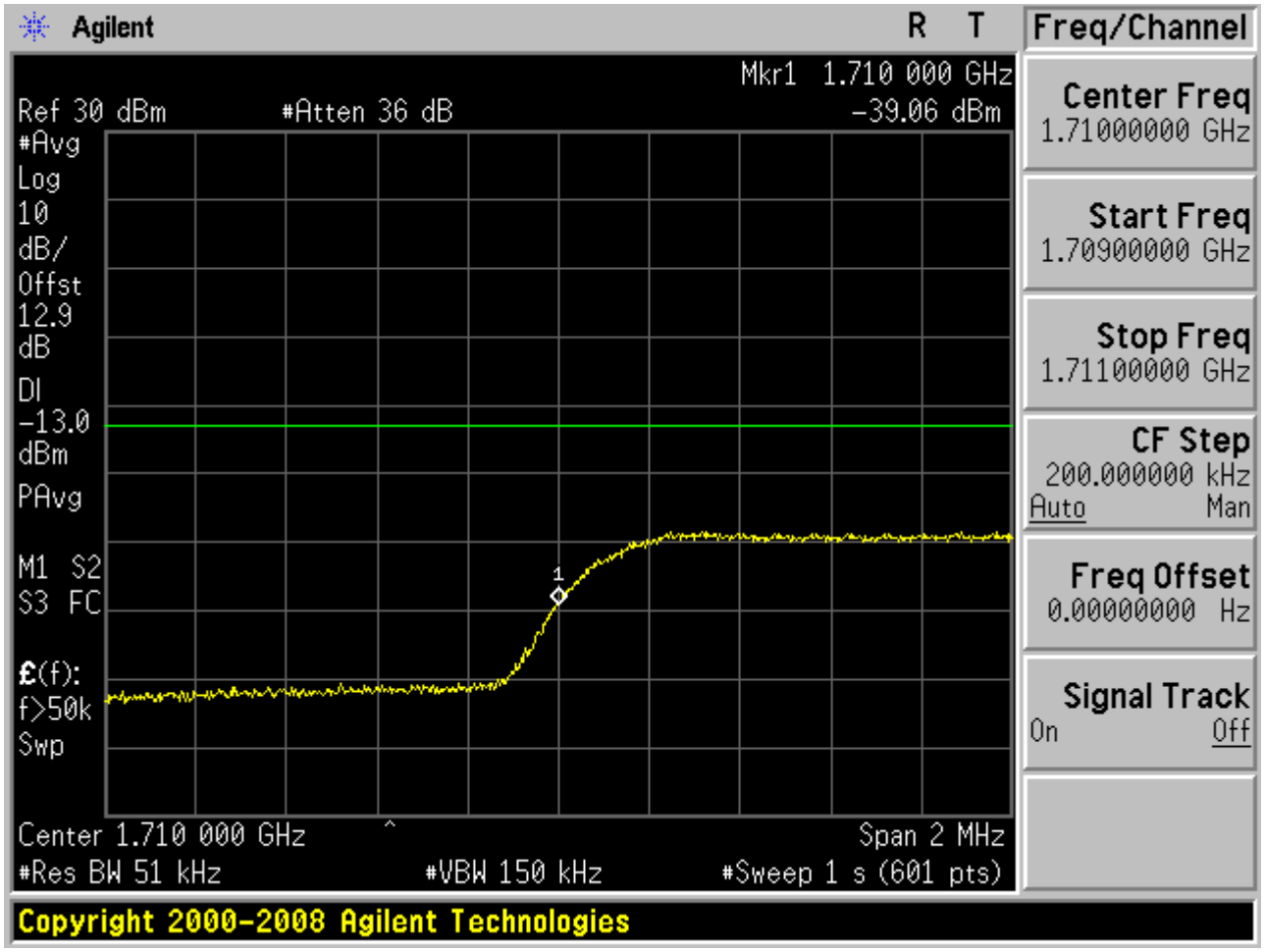
2.1.1 Channel Bandwidth = Lowest (5 MHz)

2.1.1.1 Channel= B

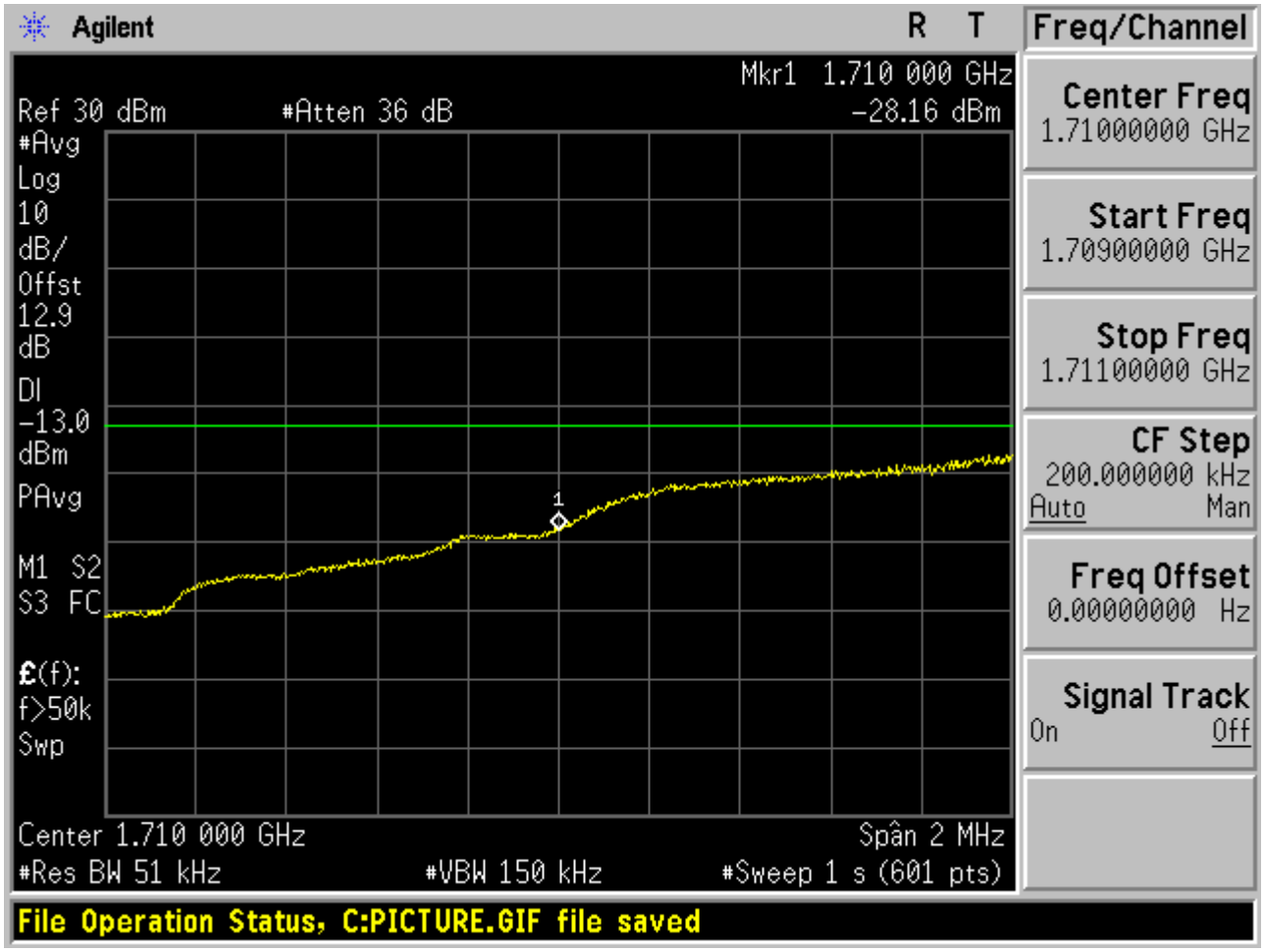
2.1.1.1.1 QPSK/1RB #0



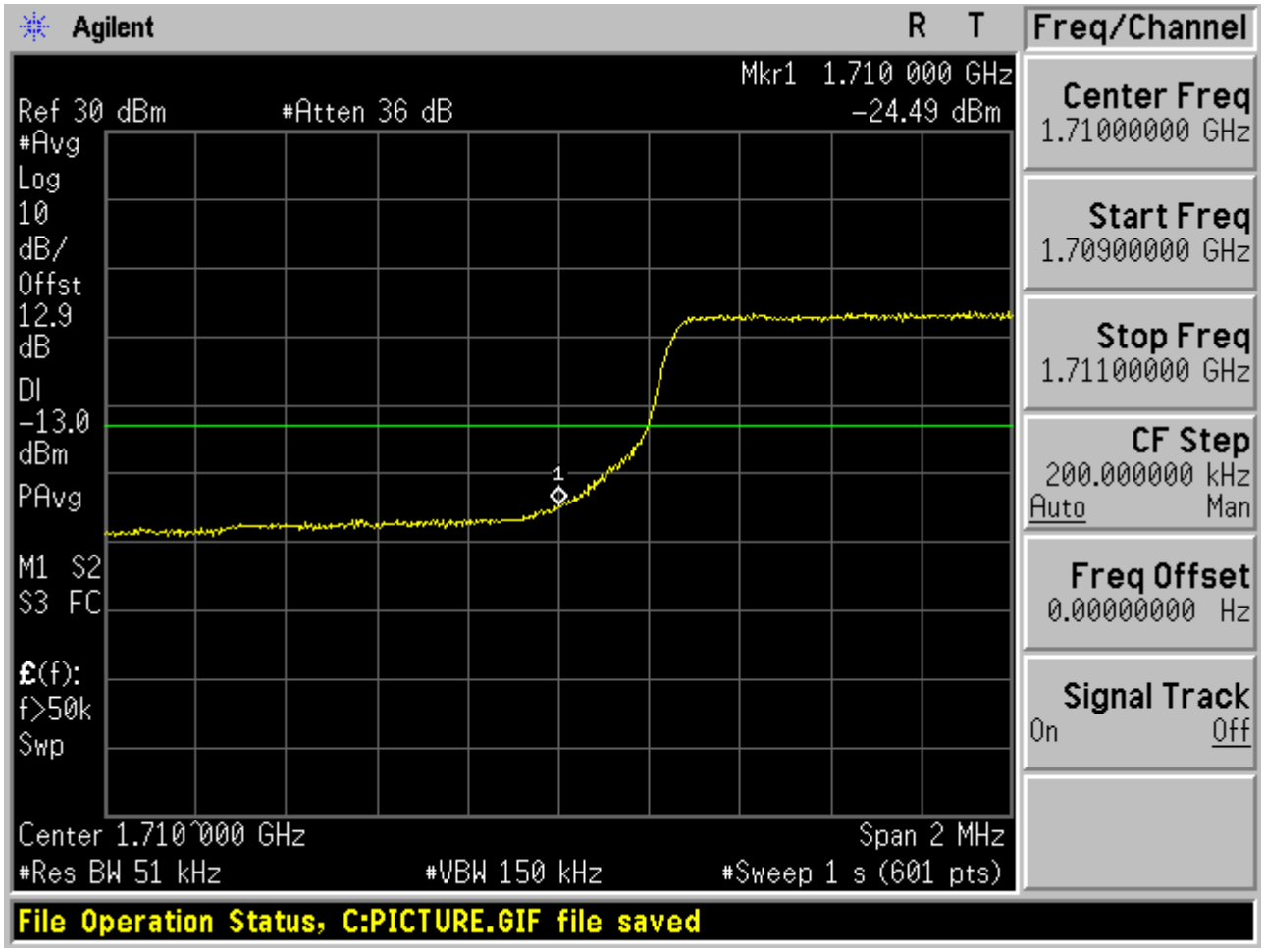
2.1.1.1.2 QPSK/1RB #max



2.1.1.1.3 QPSK/Partial RBs /RB #6

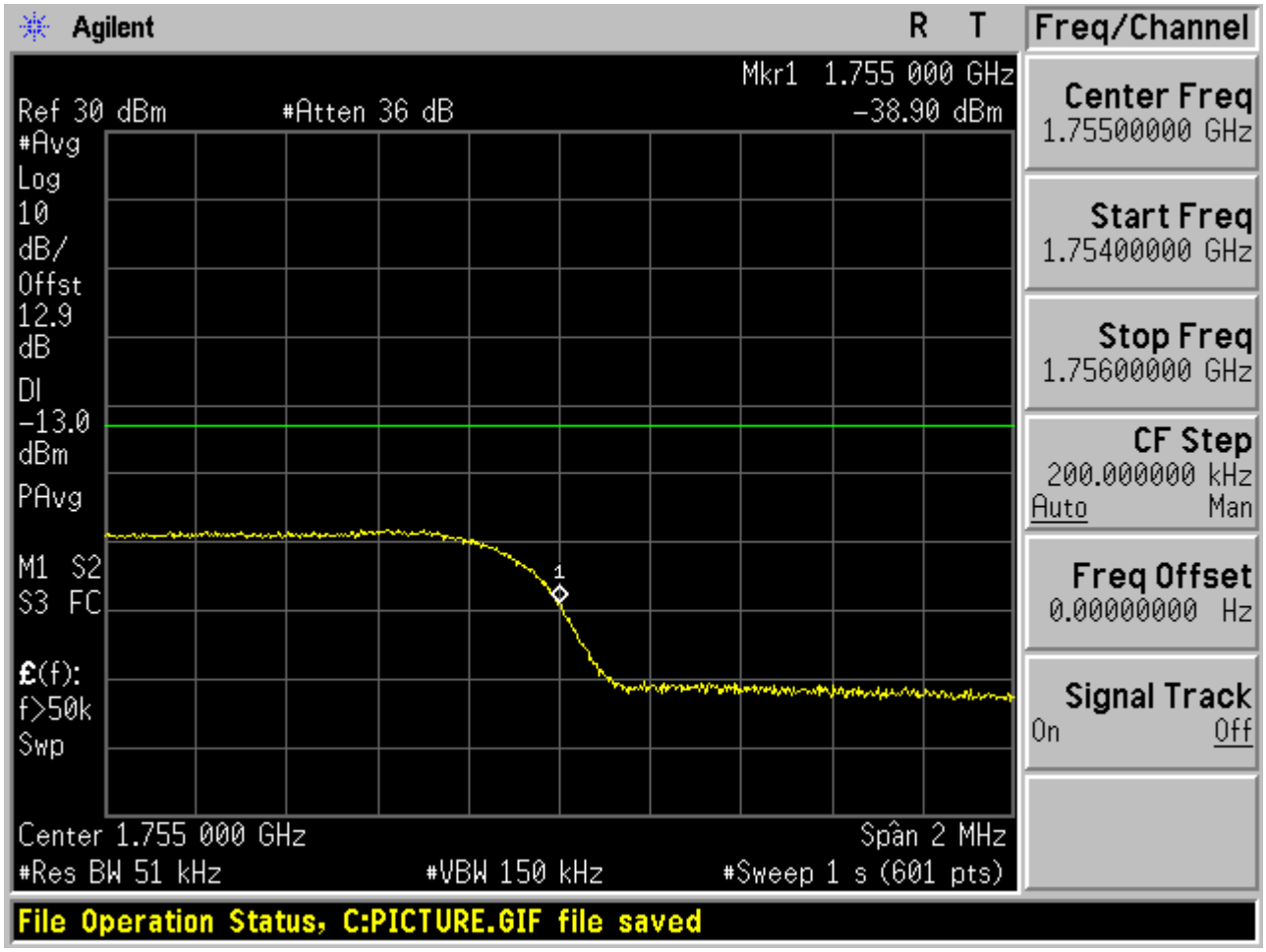


2.1.1.1.4 QPSK/full RBs

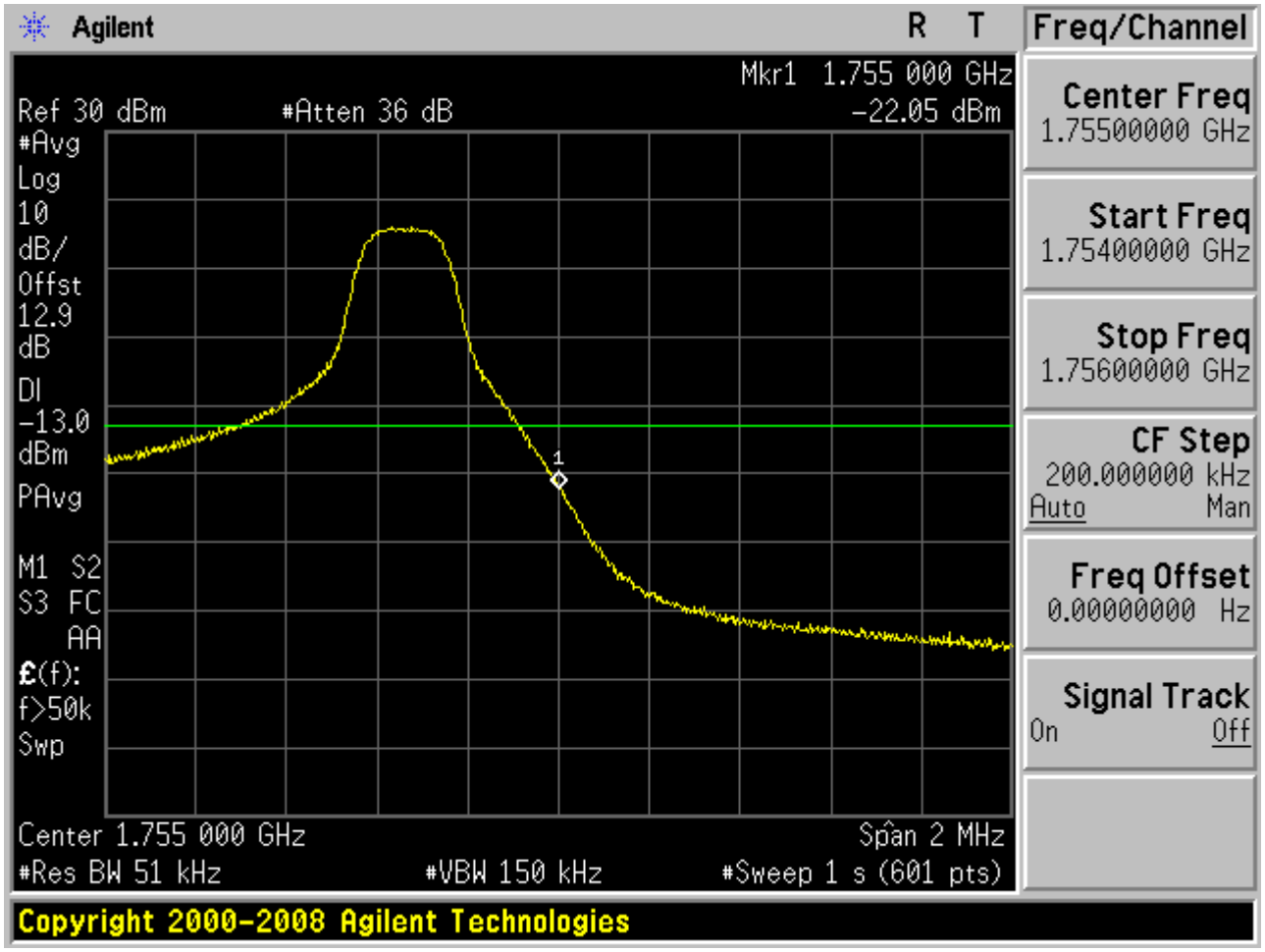

Agilent
R T
Freq/Channel
Mkr1 1.710 000 GHz
Ref 30 dBm
#Atten 36 dB
-24.49 dBm
#Avg
Log
10
dB/
Offst
12.9
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
1
Center 1.710 000 GHz
Span 2 MHz
#Res BW 51 kHz
#VBW 150 kHz
#Sweep 1 s (601 pts)
Center Freq
1.71000000 GHz
Start Freq
1.70900000 GHz
Stop Freq
1.71100000 GHz
CF Step
200.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

2.1.1.2 Channel= T

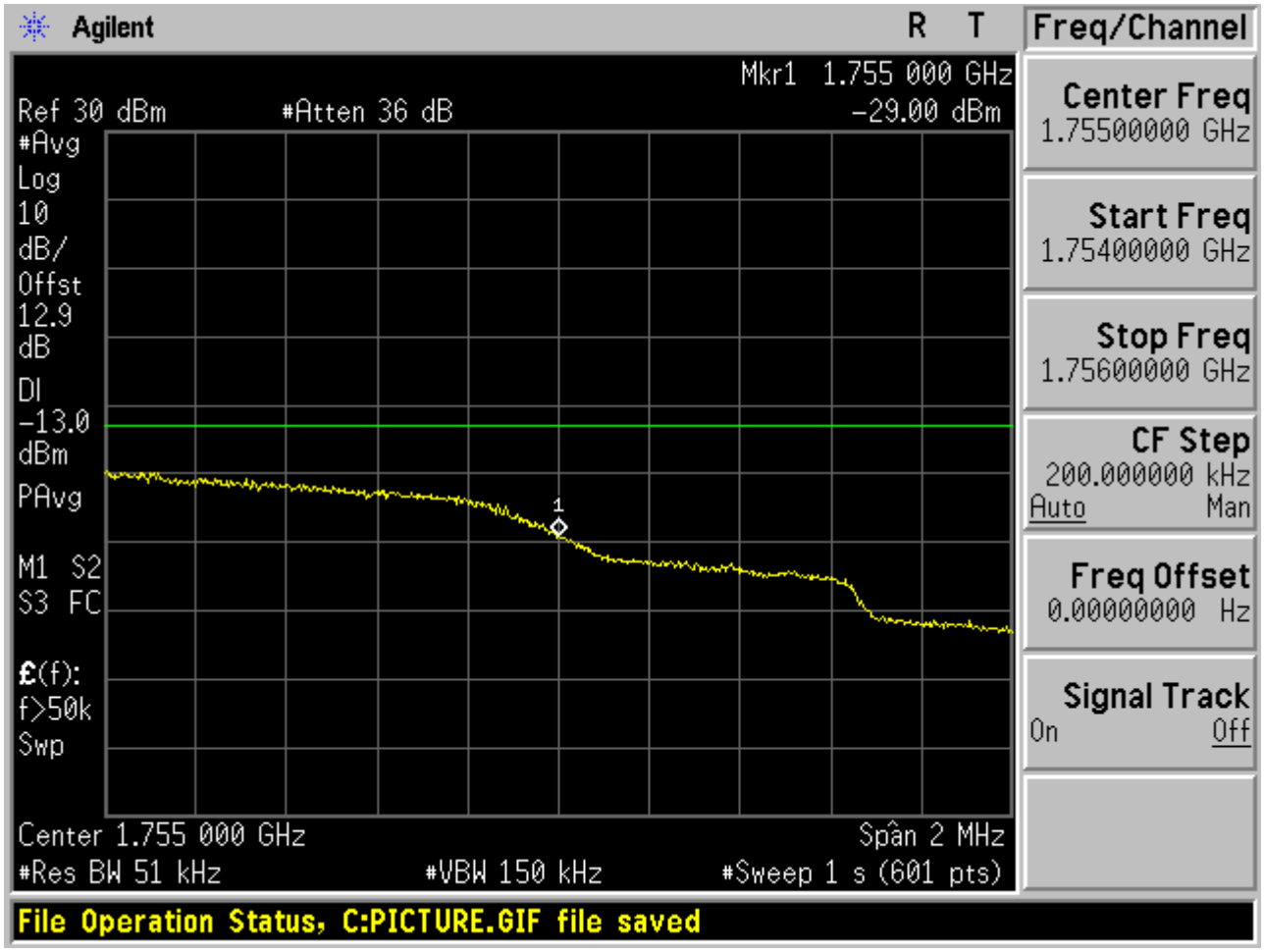
2.1.1.2.1 QPSK/1RB #0



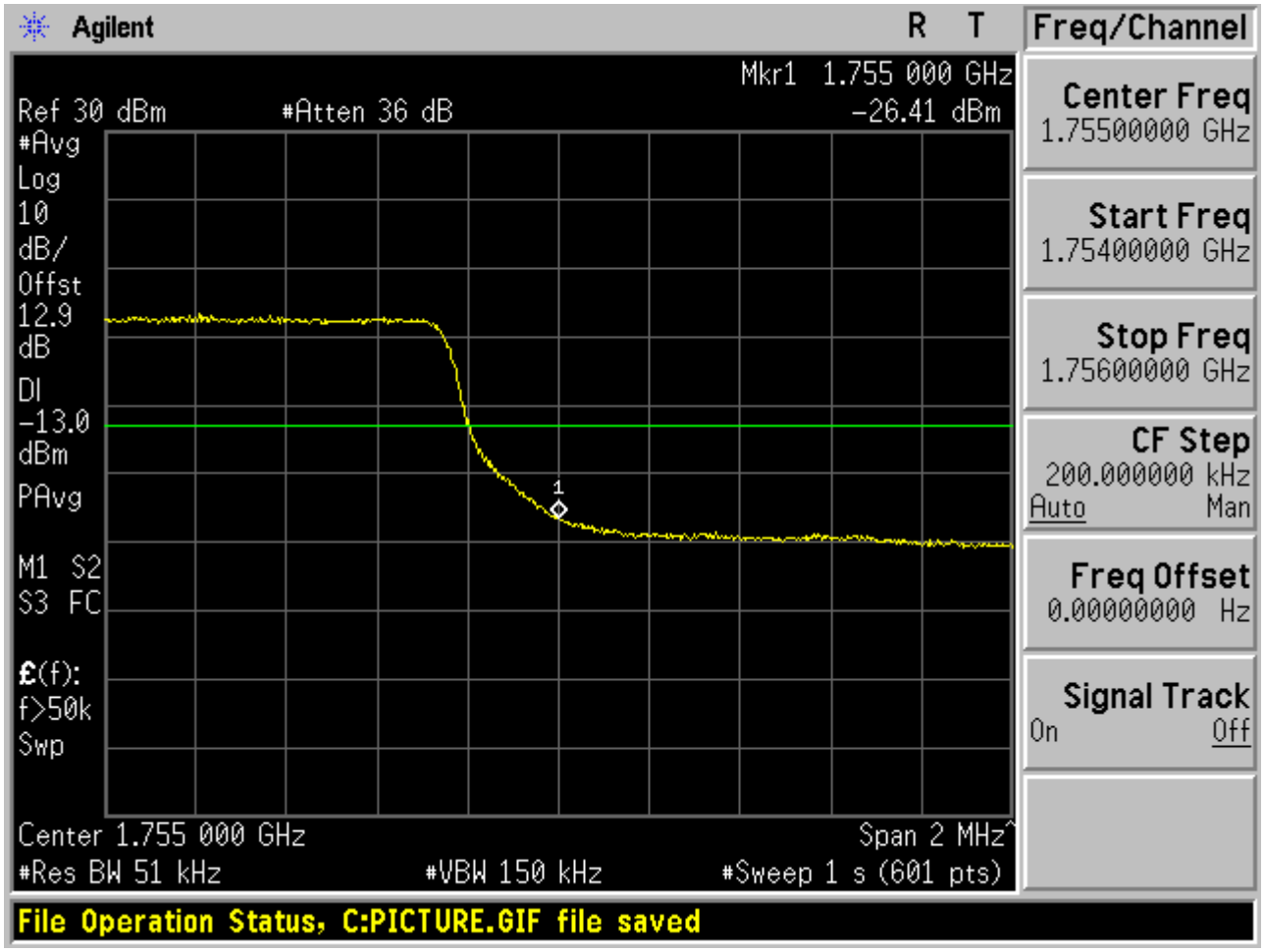
2.1.1.2.2 QPSK/1RB #max



2.1.1.2.3 QPSK/Partial RBs /RB #6



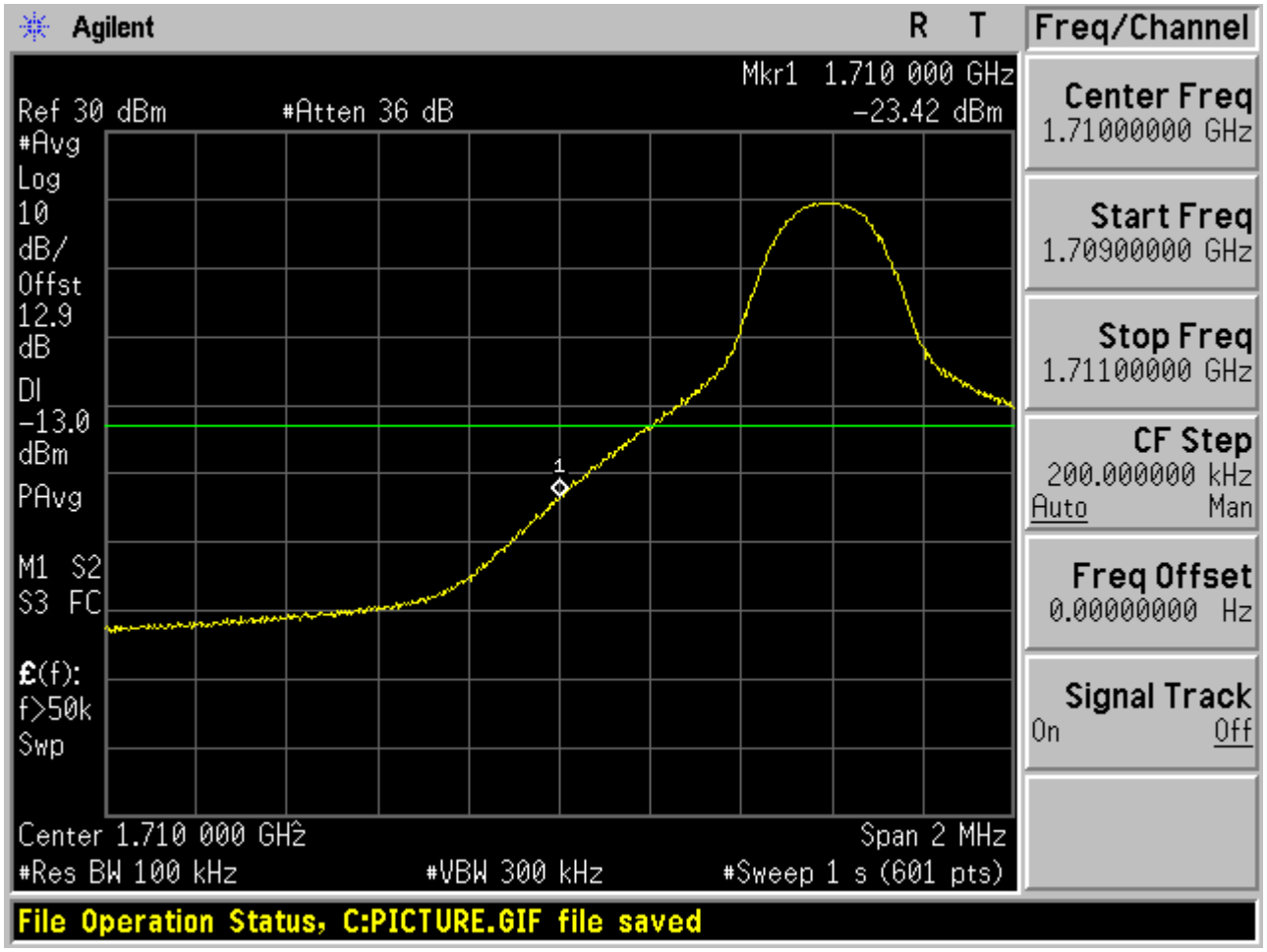
2.1.1.2.4 QPSK/full RBs


Agilent
R T
Freq/Channel
Mkr1 1.755 000 GHz
Ref 30 dBm
#Atten 36 dB
-26.41 dBm
#Avg
Log
10
dB/
Offst
12.9
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
1
Center Freq
1.75500000 GHz
Start Freq
1.75400000 GHz
Stop Freq
1.75600000 GHz
CF Step
200.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 1.755 000 GHz
Span 2 MHz
#Res BW 51 kHz
#VBW 150 kHz
#Sweep 1 s (601 pts)
File Operation Status, C:PICTURE.GIF file saved

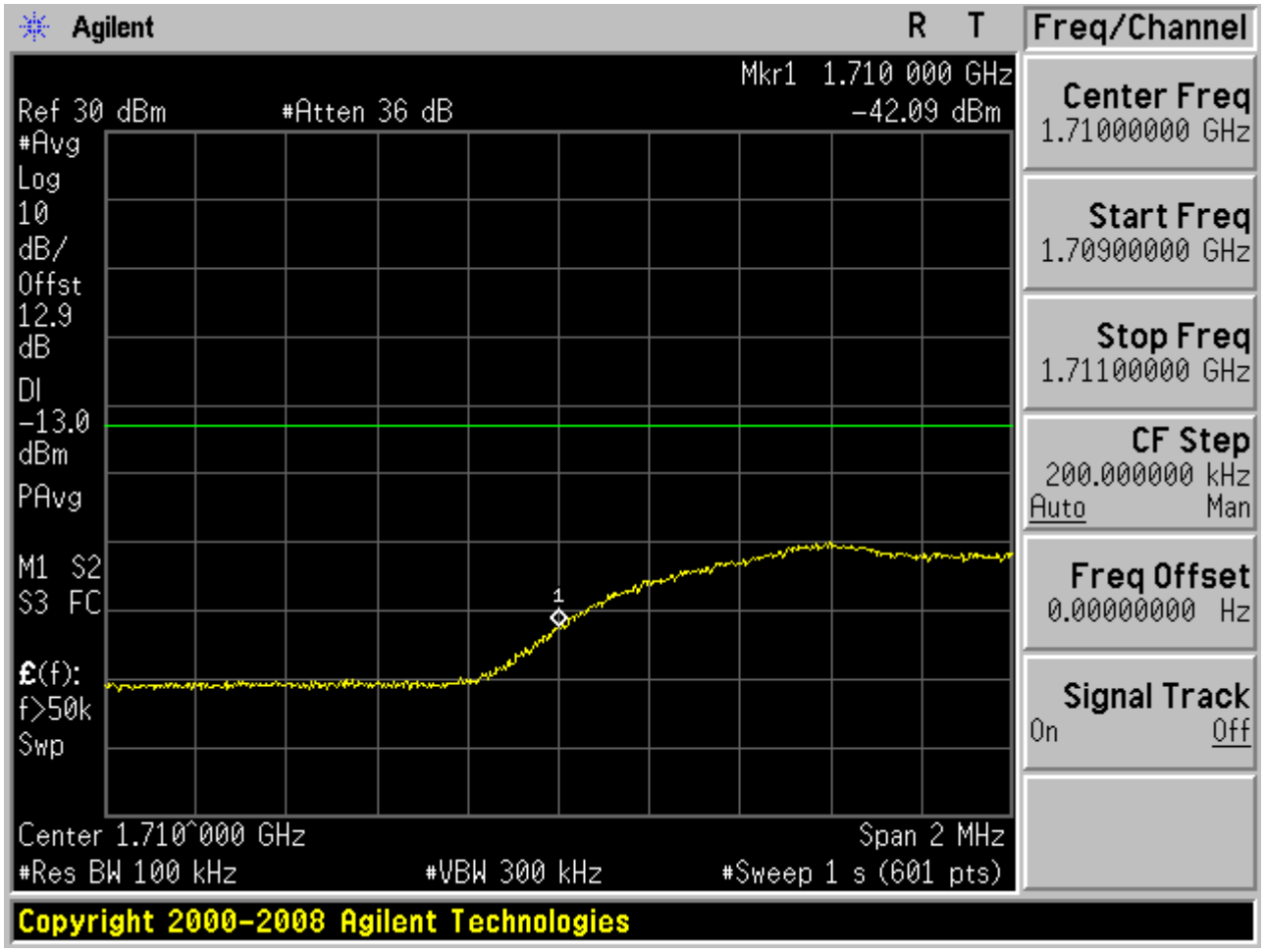
2.1.2 Channel Bandwidth = 10 MHz

2.1.2.1 Channel= B

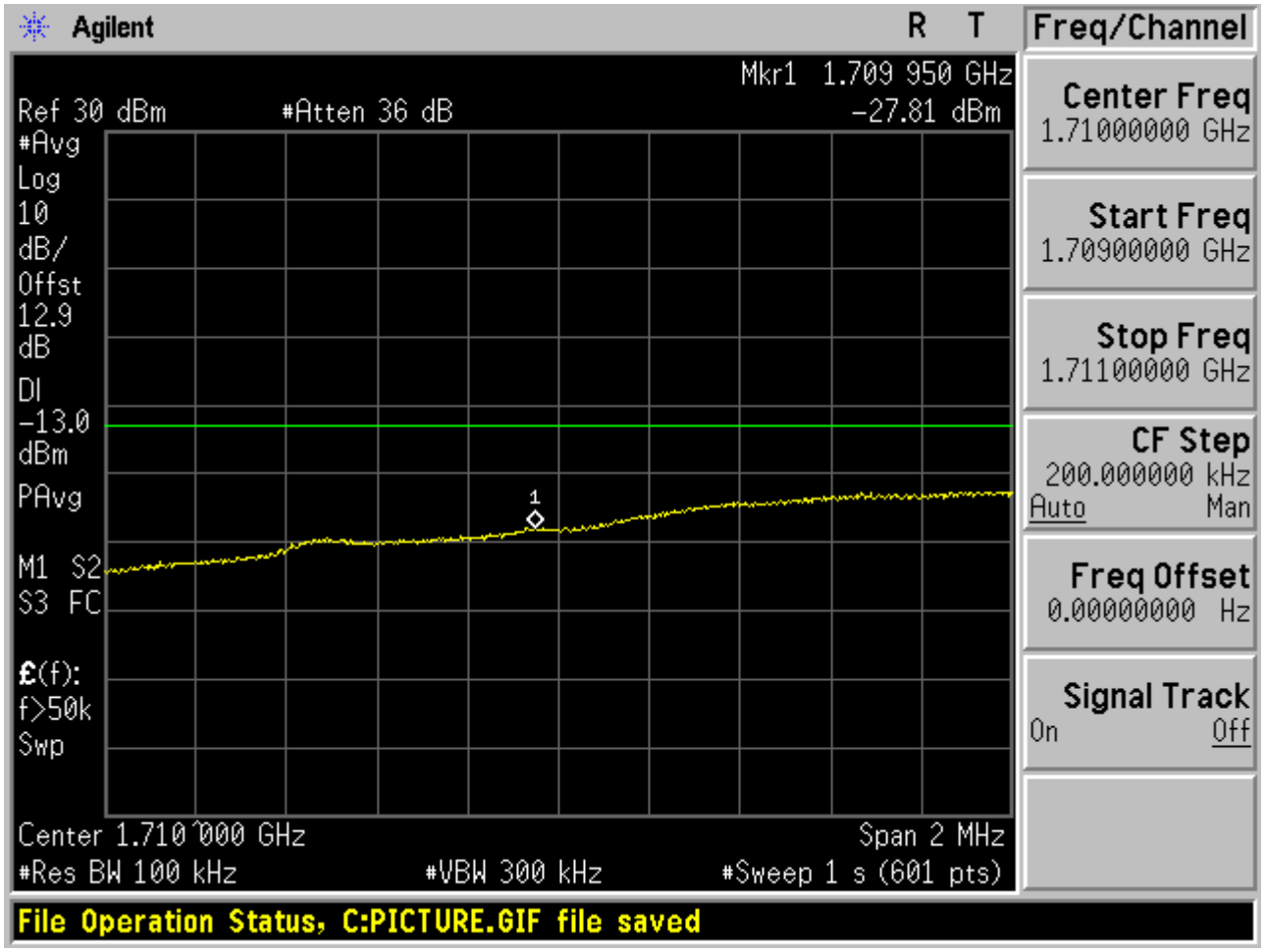
2.1.2.1.1 QPSK/1RB #0



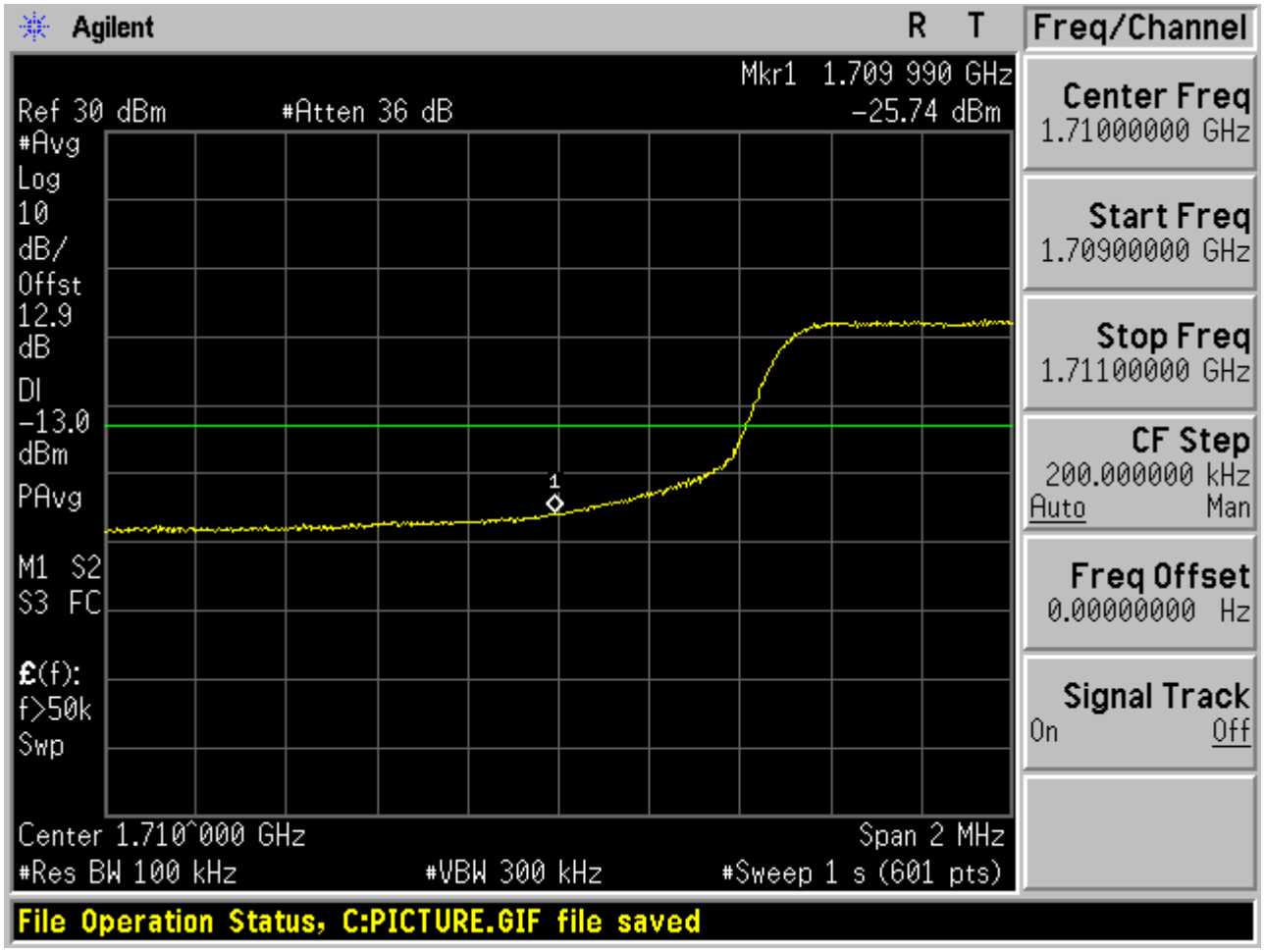
2.1.2.1.2 QPSK/1RB #max



2.1.2.1.3 QPSK/Partial RBs /RB #13

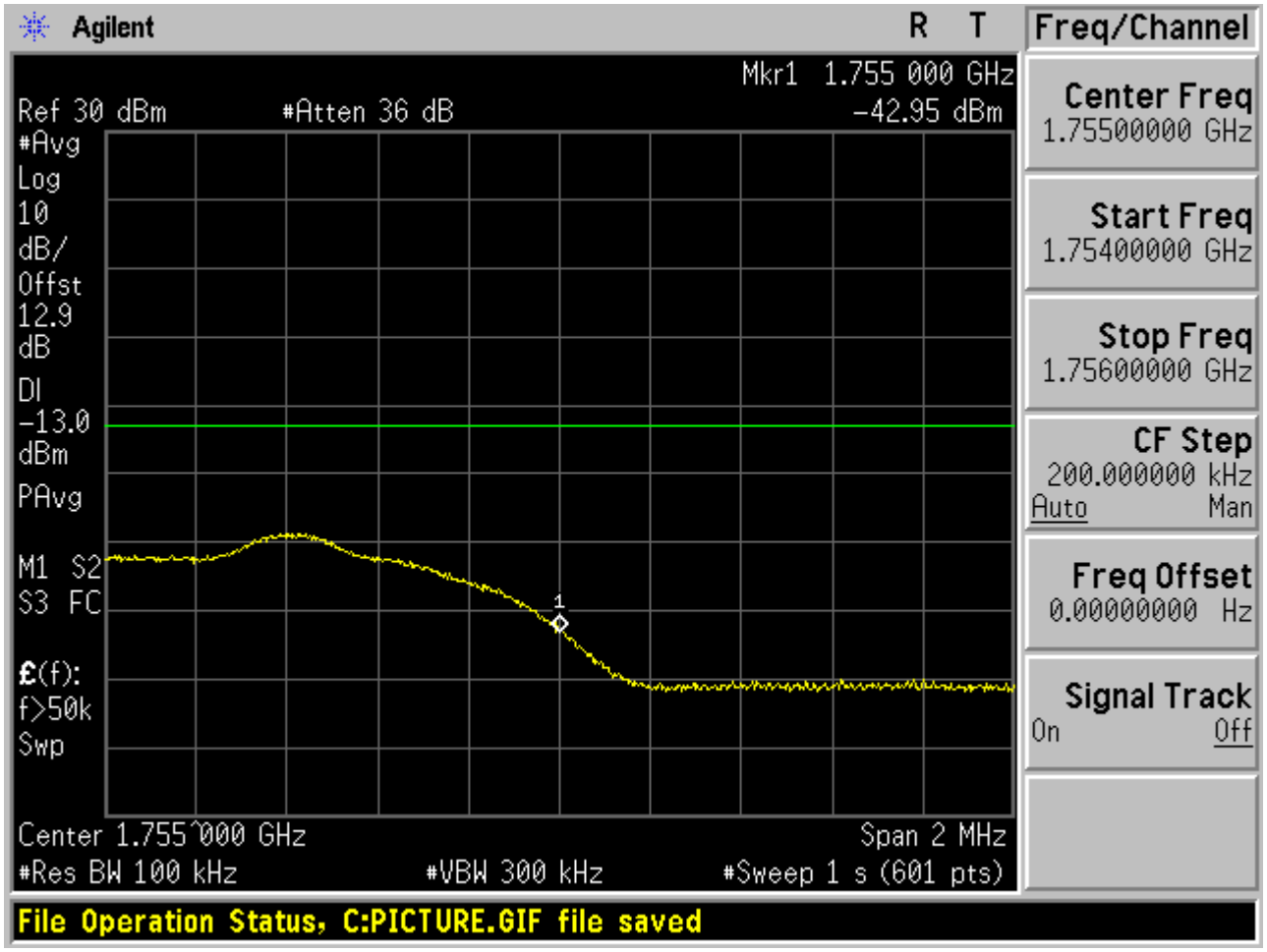


2.1.2.1.4 QPSK/full RBs

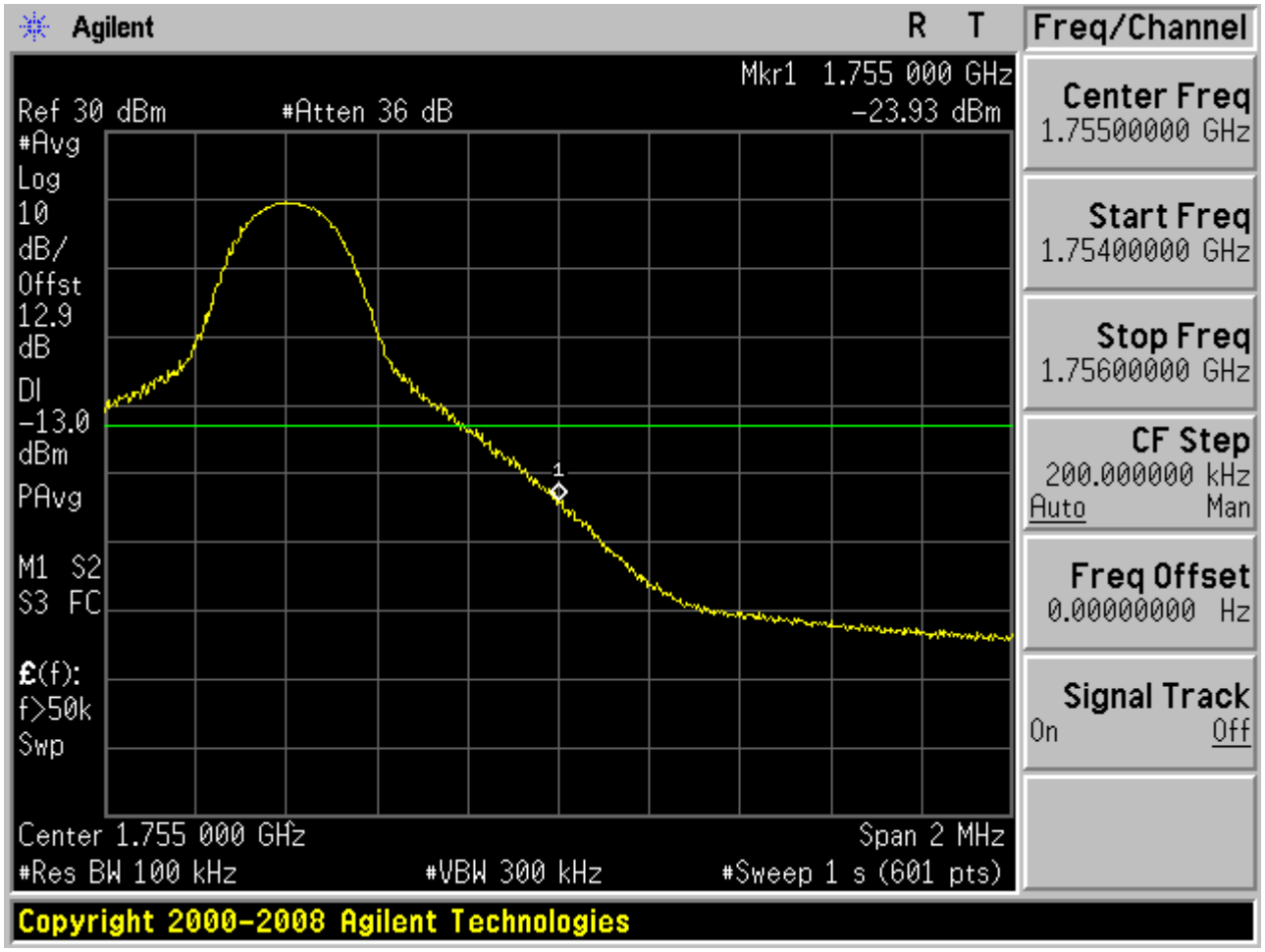

Agilent
R T
Freq/Channel
Mkr1 1.709 990 GHz
Ref 30 dBm
#Atten 36 dB
-25.74 dBm
#Avg
Log
10
dB/
Offst
12.9
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
1
Center 1.710^000 GHz
Span 2 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 1 s (601 pts)
Center Freq
1.71000000 GHz
Start Freq
1.70900000 GHz
Stop Freq
1.71100000 GHz
CF Step
200.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

2.1.2.2 Channel= T

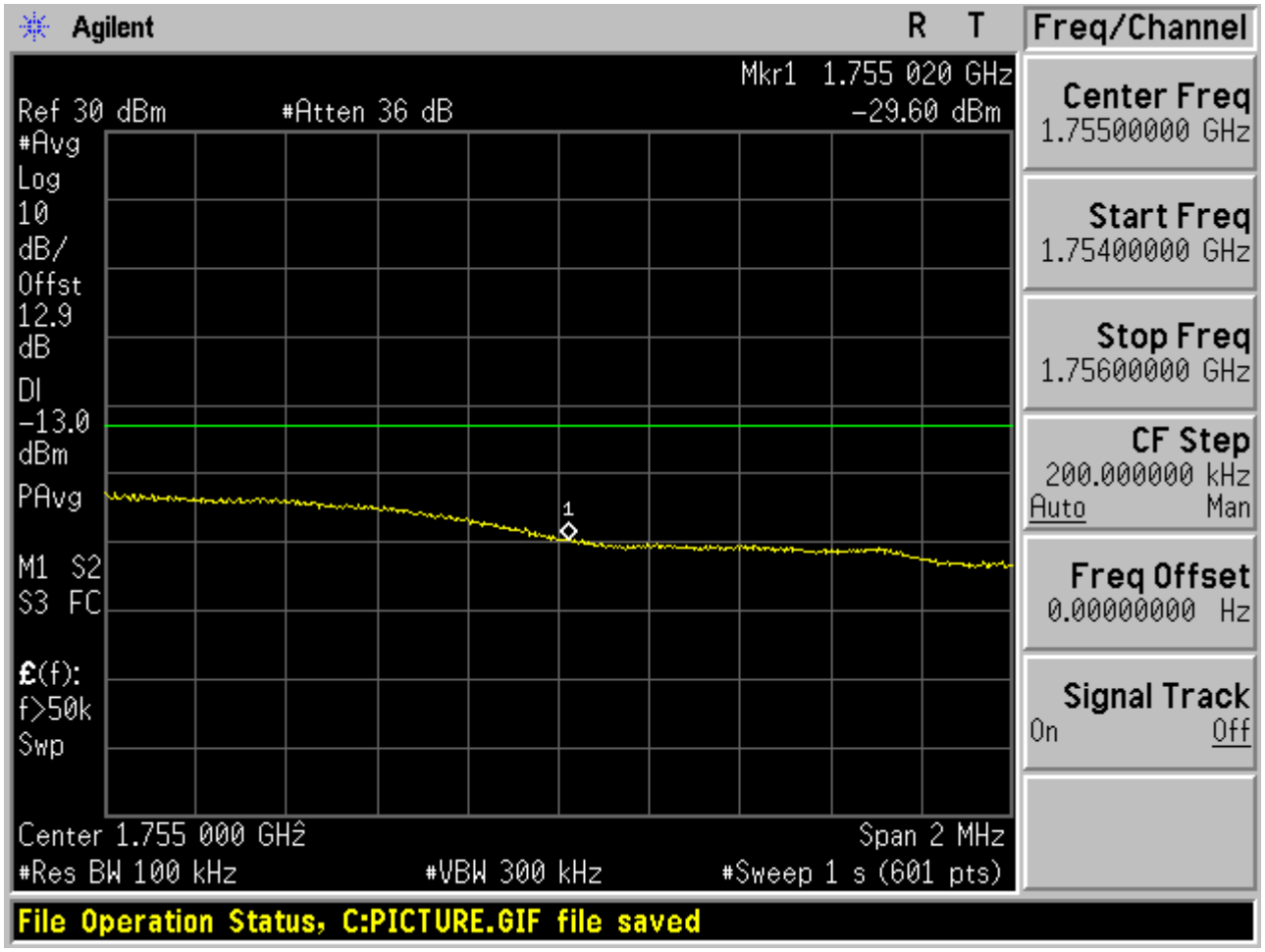
2.1.2.2.1 QPSK/1RB #0



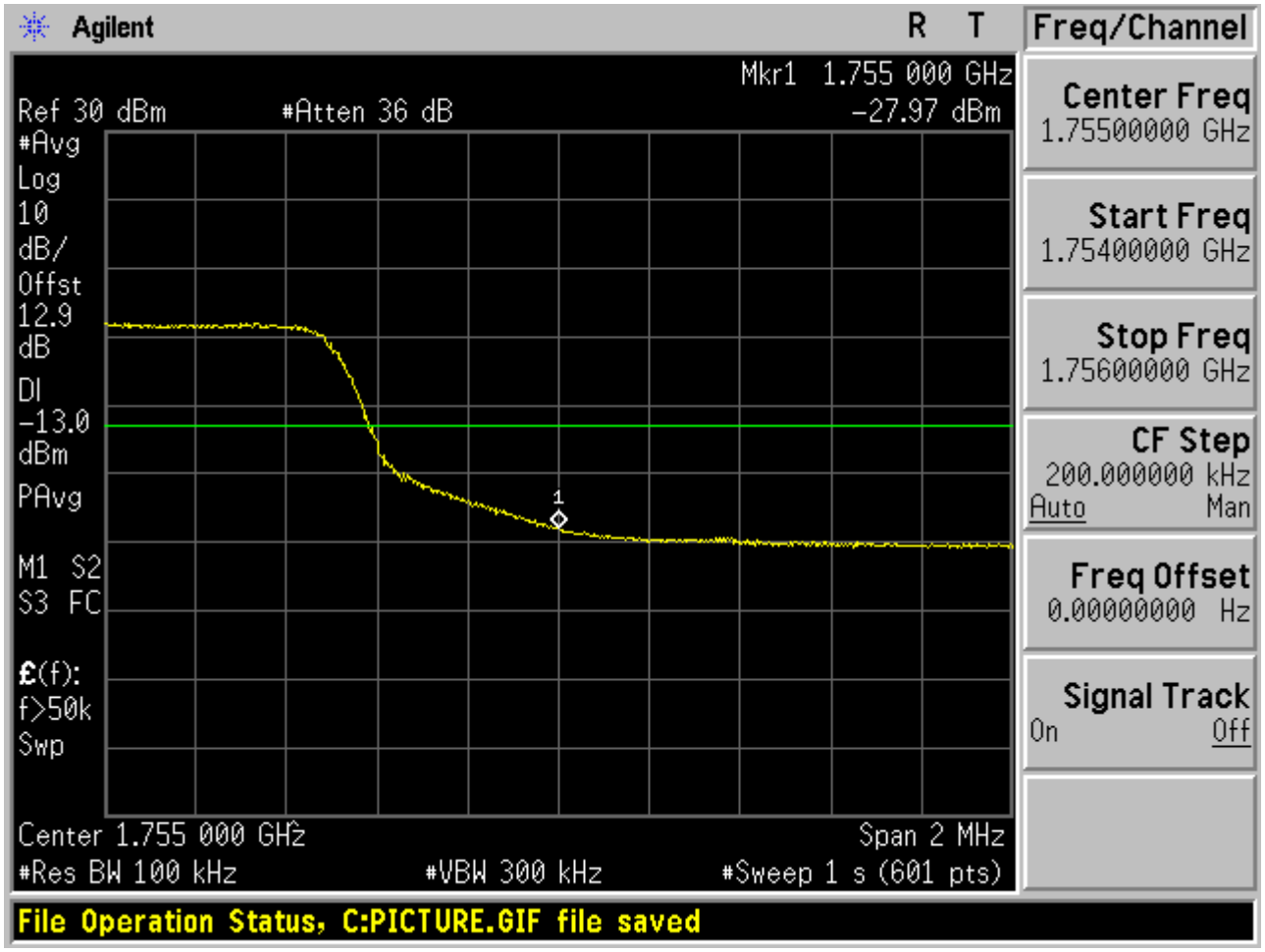
2.1.2.2.2 QPSK/1RB #max



2.1.2.2.3 QPSK/Partial RBs /RB #13



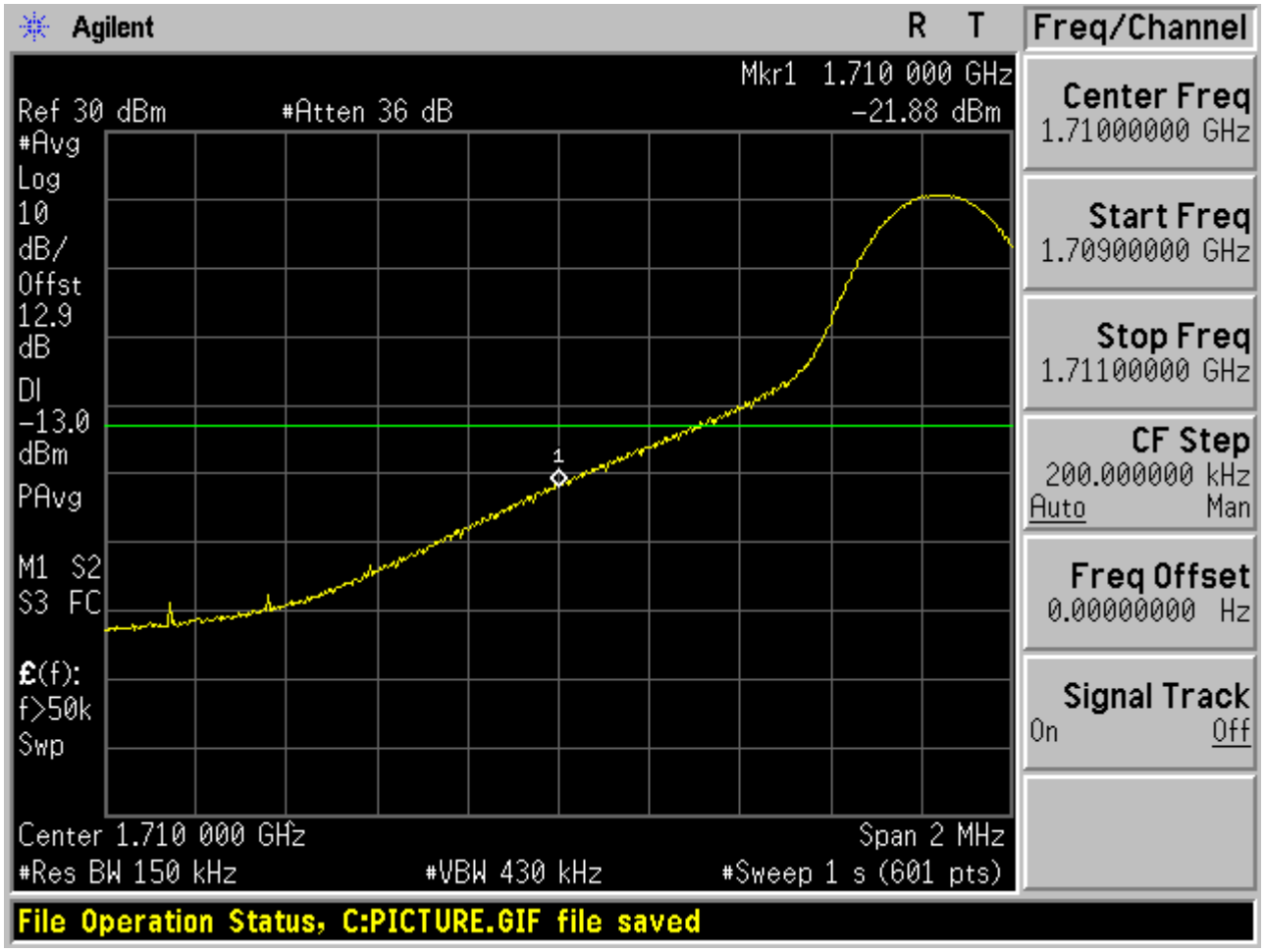
2.1.2.2.4 QPSK/full RBs


Agilent
R T
Freq/Channel
Mkr1 1.755 000 GHz
Ref 30 dBm
#Atten 36 dB
-27.97 dBm
#Avg
Log
10
dB/
Offst
12.9
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
1
Center Freq
1.75500000 GHz
Start Freq
1.75400000 GHz
Stop Freq
1.75600000 GHz
CF Step
200.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 1.755 000 GHz
Span 2 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 1 s (601 pts)
File Operation Status, C:PICTURE.GIF file saved

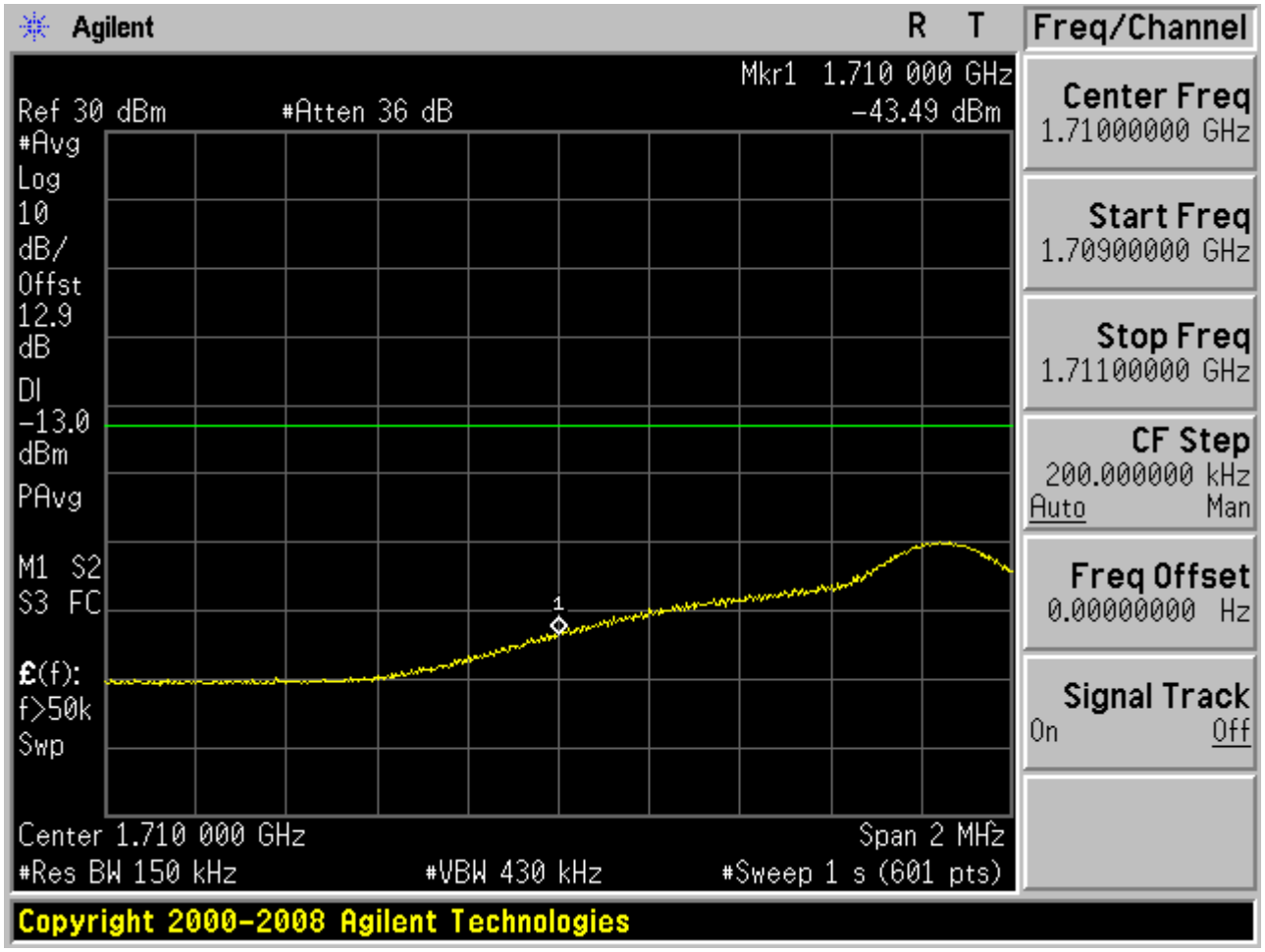
2.1.3 Channel Bandwidth = 15 MHz

2.1.3.1 Channel= B

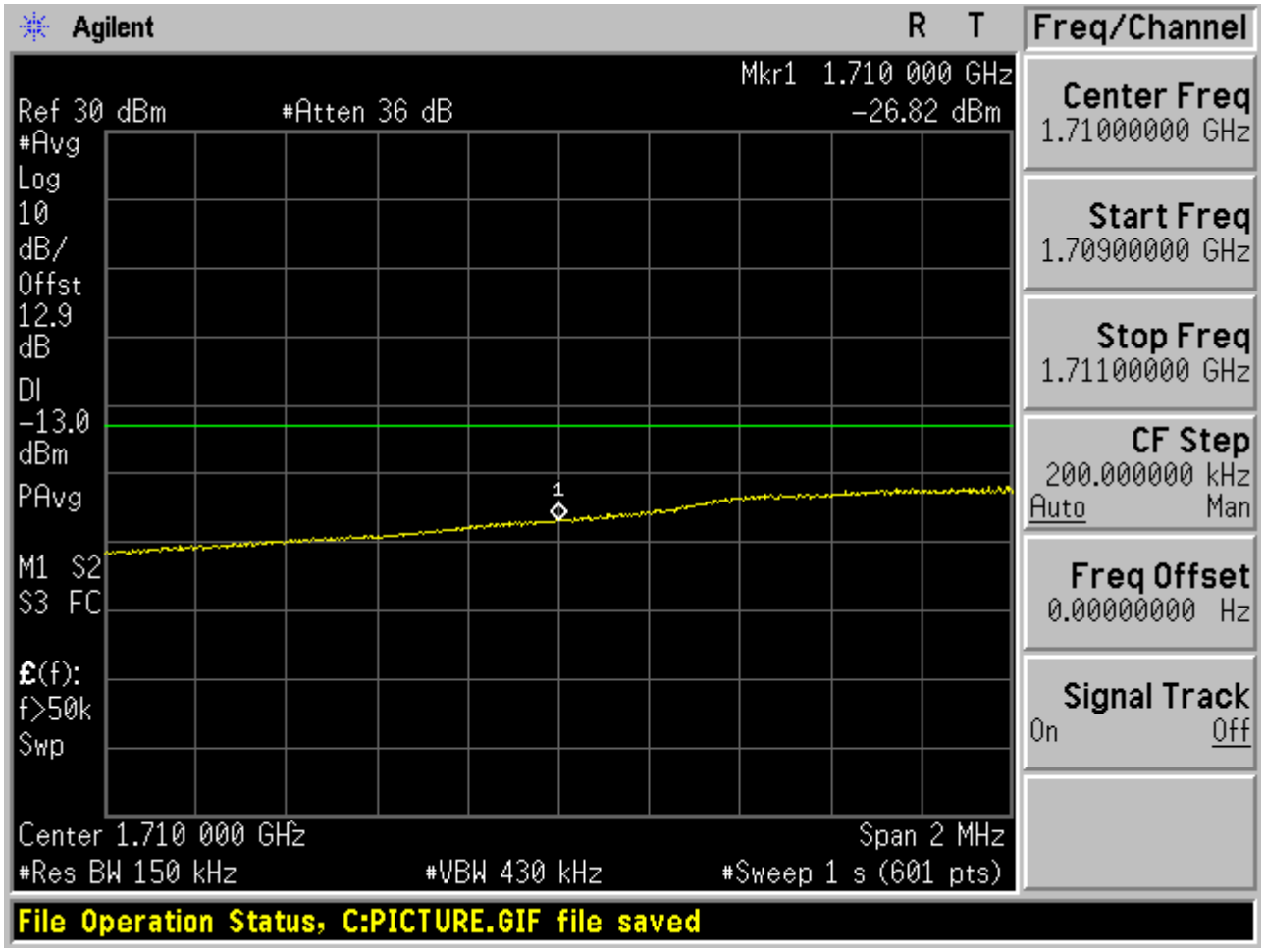
2.1.3.1.1 QPSK/1RB #0



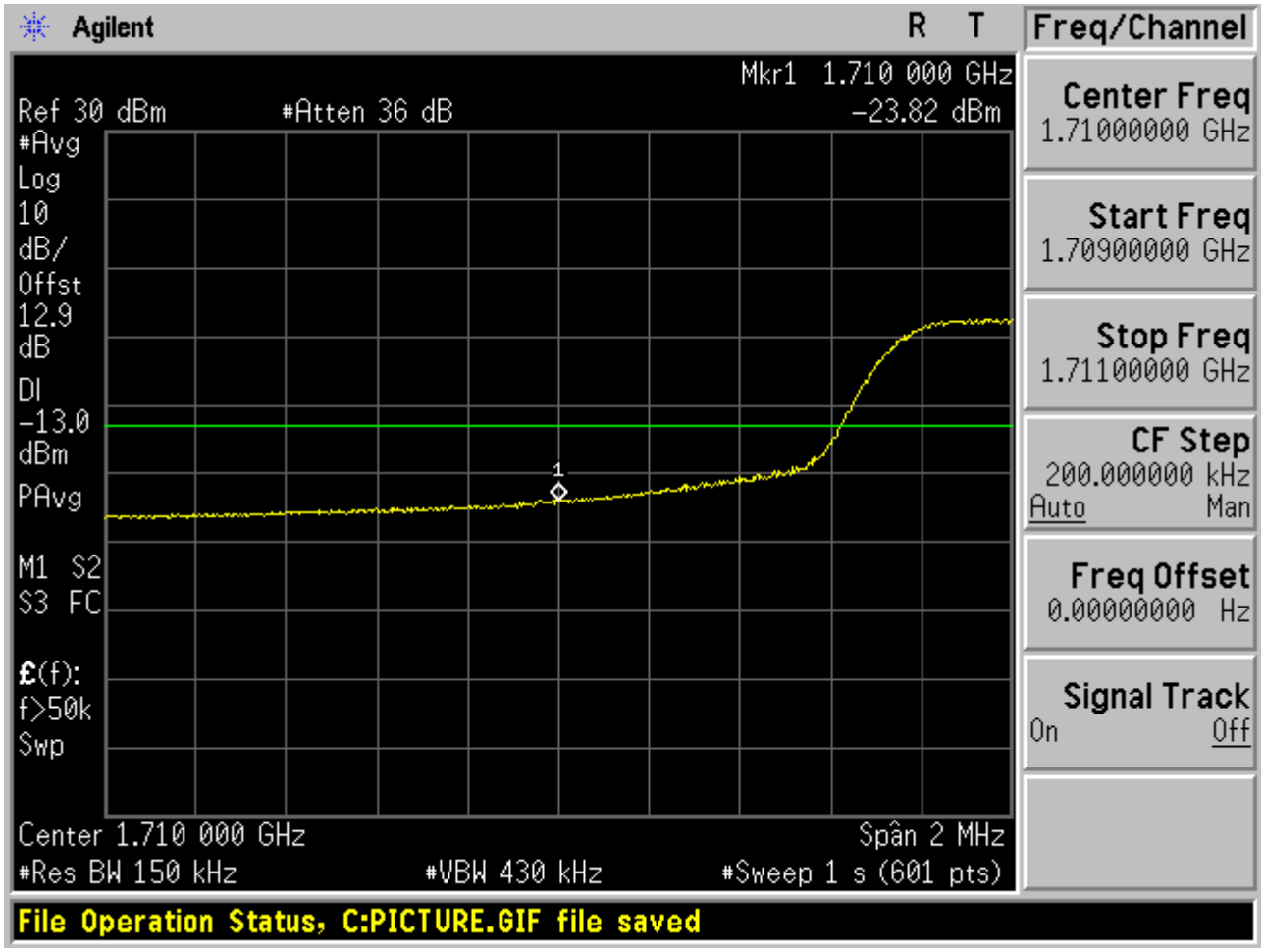
2.1.3.1.2 QPSK/1RB #max



2.1.3.1.3 QPSK/Partial RBs /RB #18

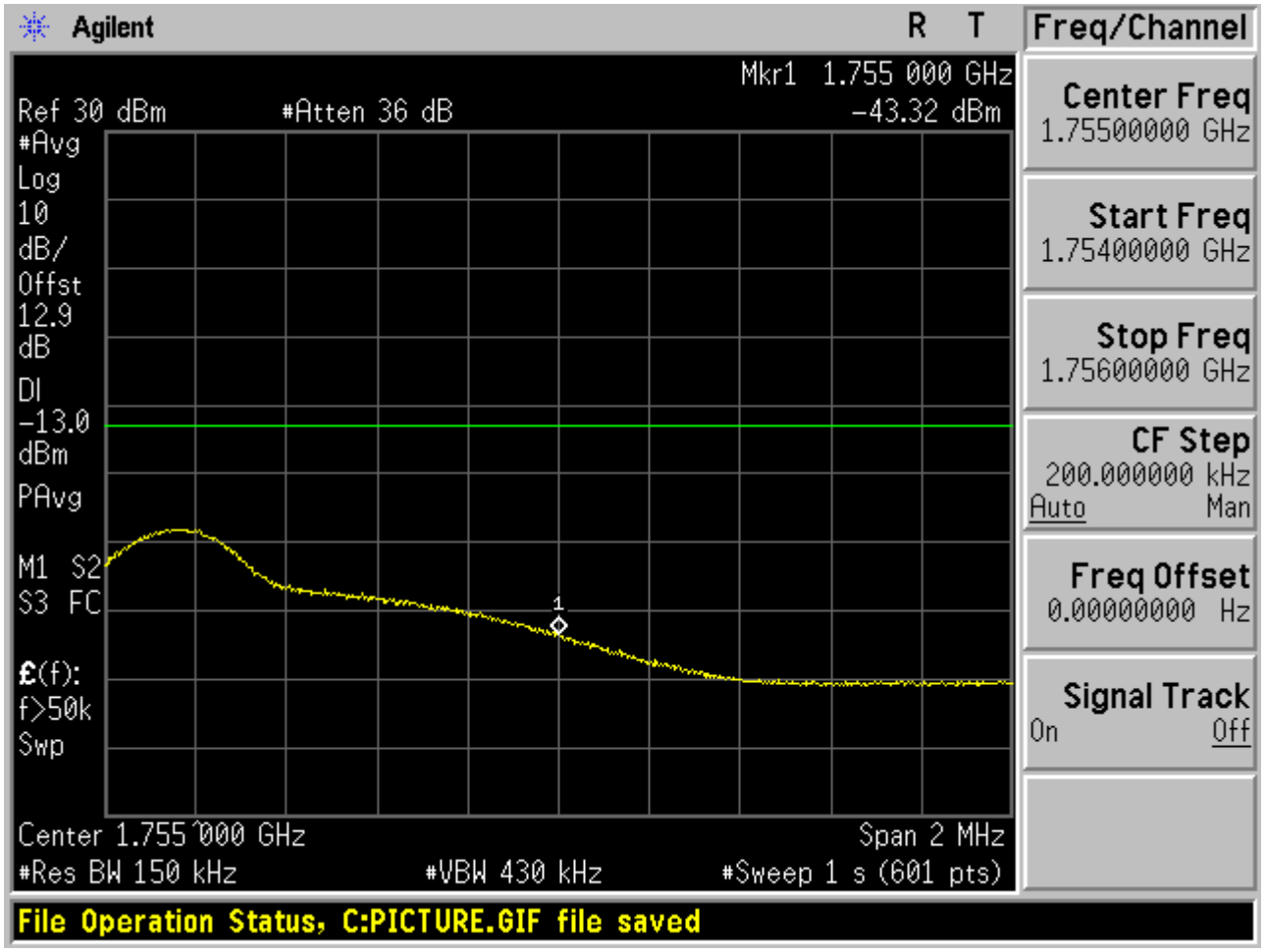


2.1.3.1.4 QPSK/full RBs

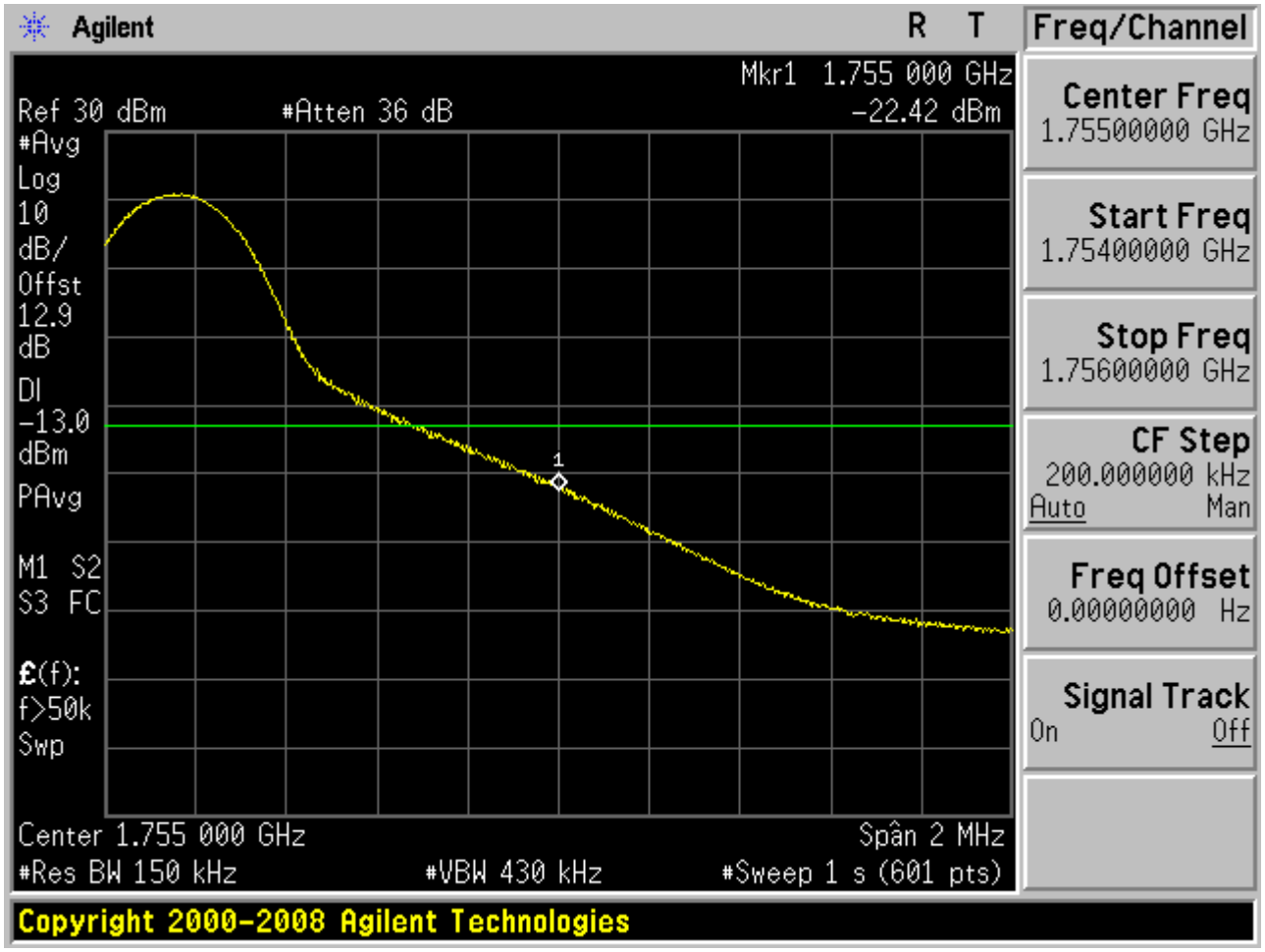


2.1.3.2 Channel= T

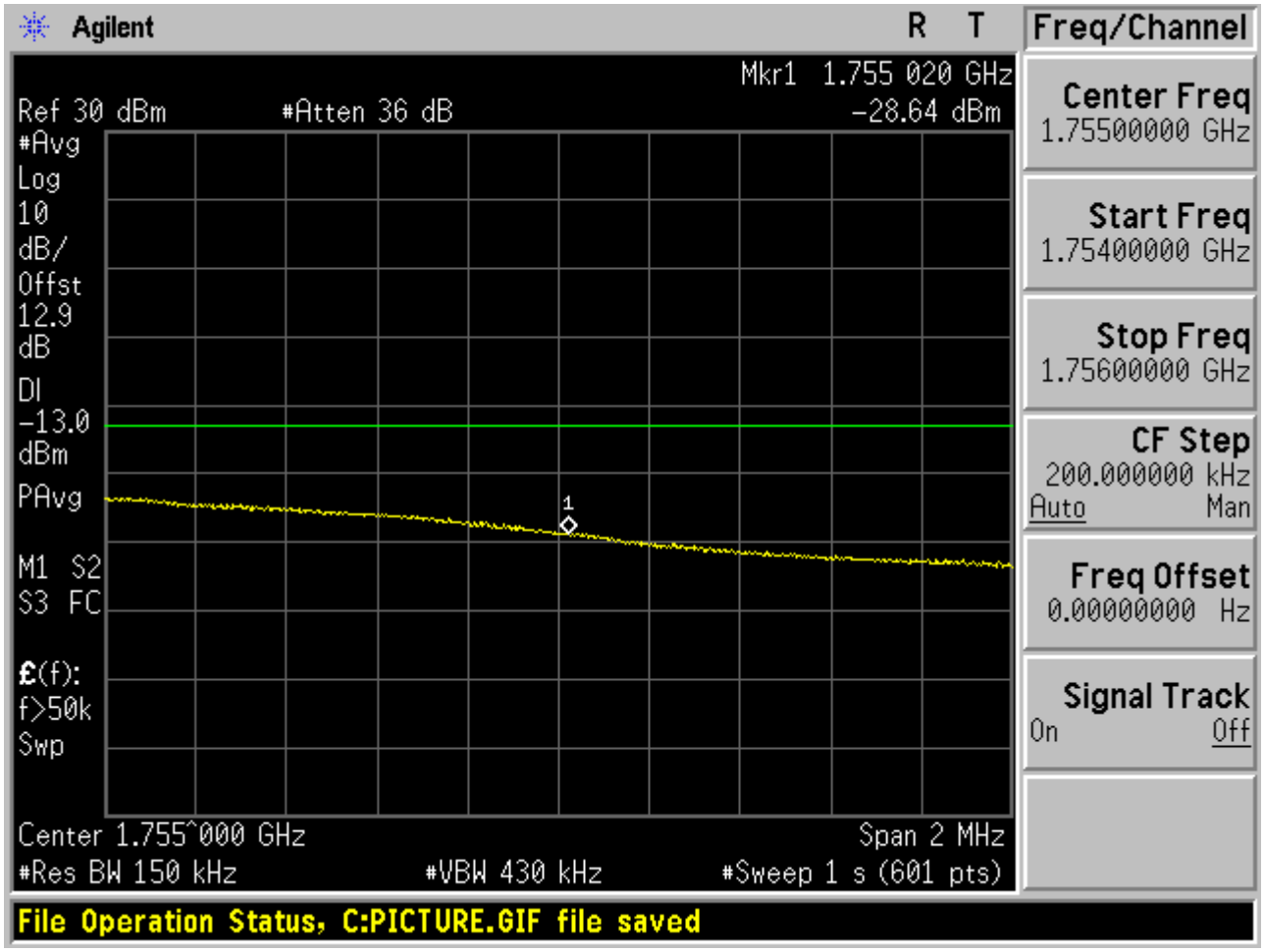
2.1.3.2.1 QPSK/1RB #0



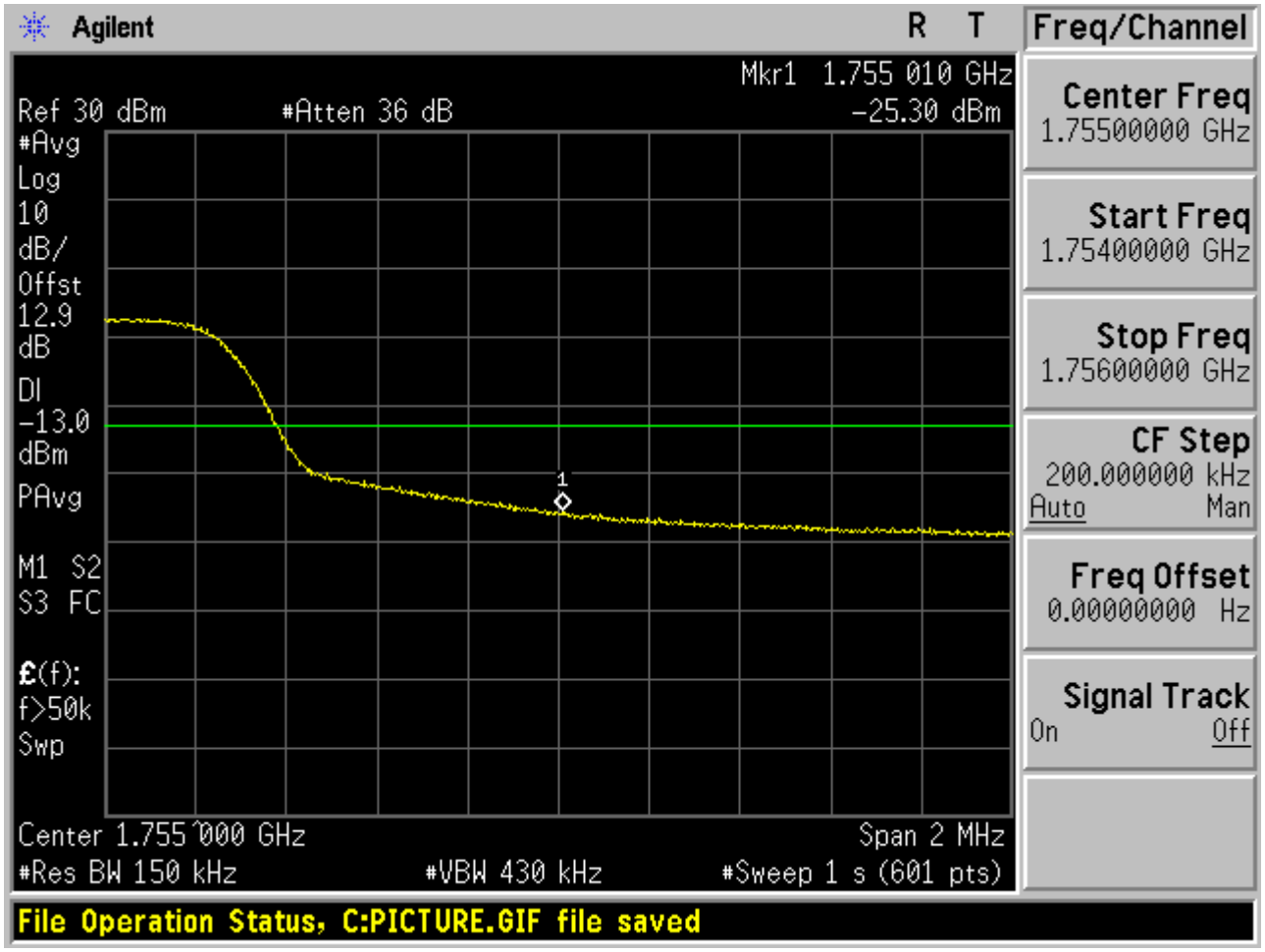
2.1.3.2.2 QPSK/1RB #max



2.1.3.2.3 QPSK/Partial RBs /RB #18



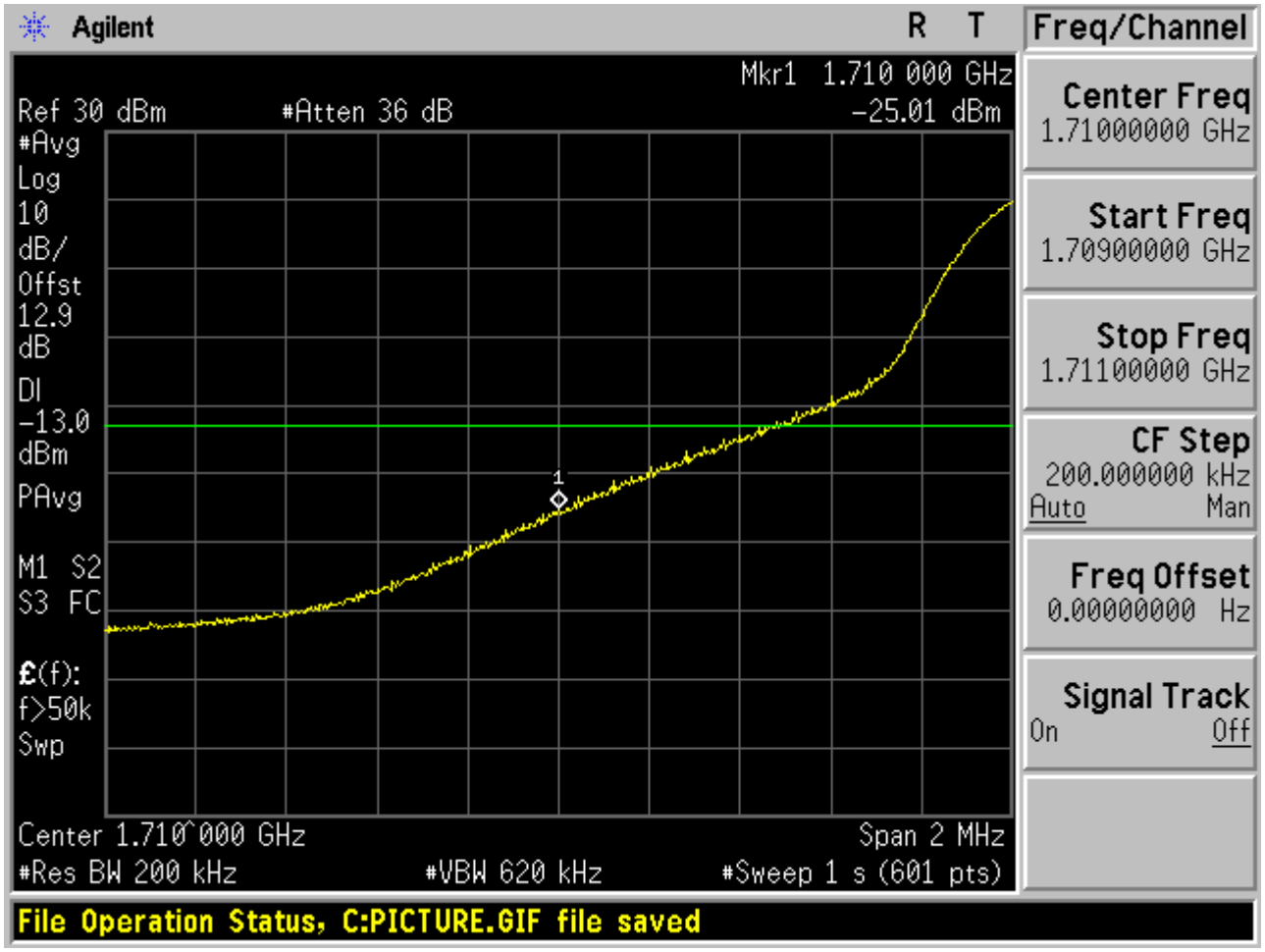
2.1.3.2.4 QPSK/full RBs



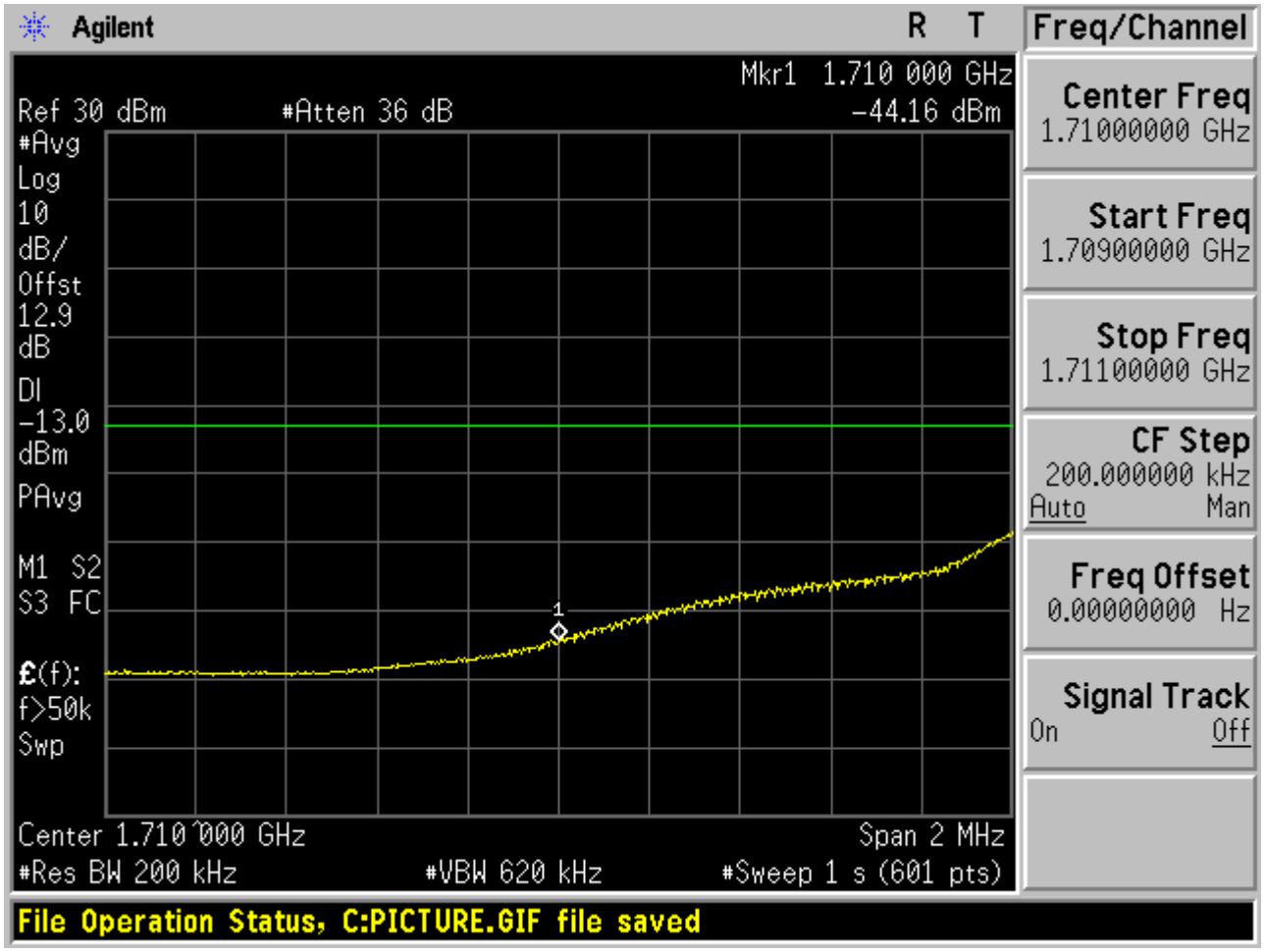
2.1.4 Channel Bandwidth = Highest (20 MHz)

2.1.4.1 Channel= B

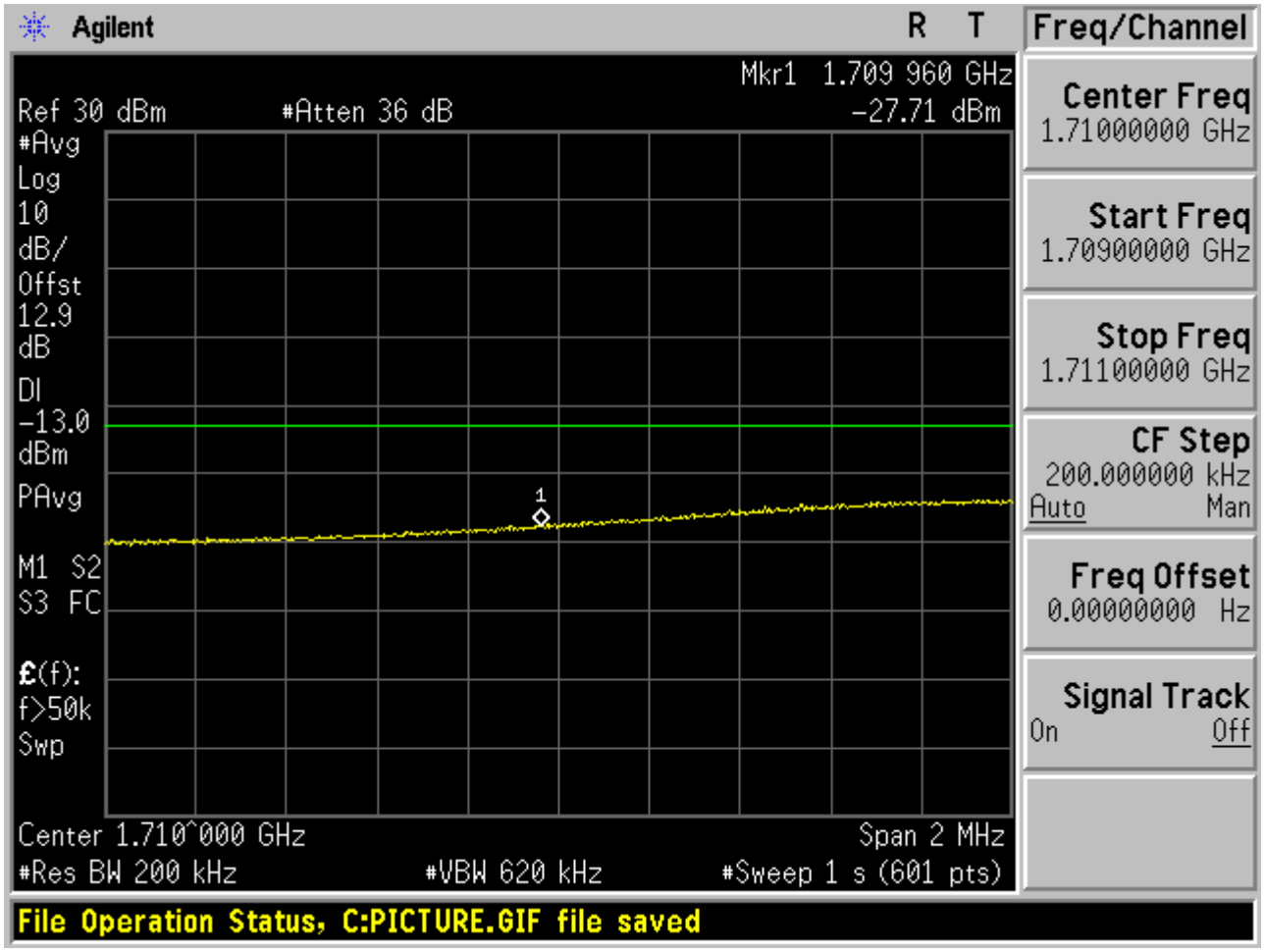
2.1.4.1.1 QPSK/1RB #0



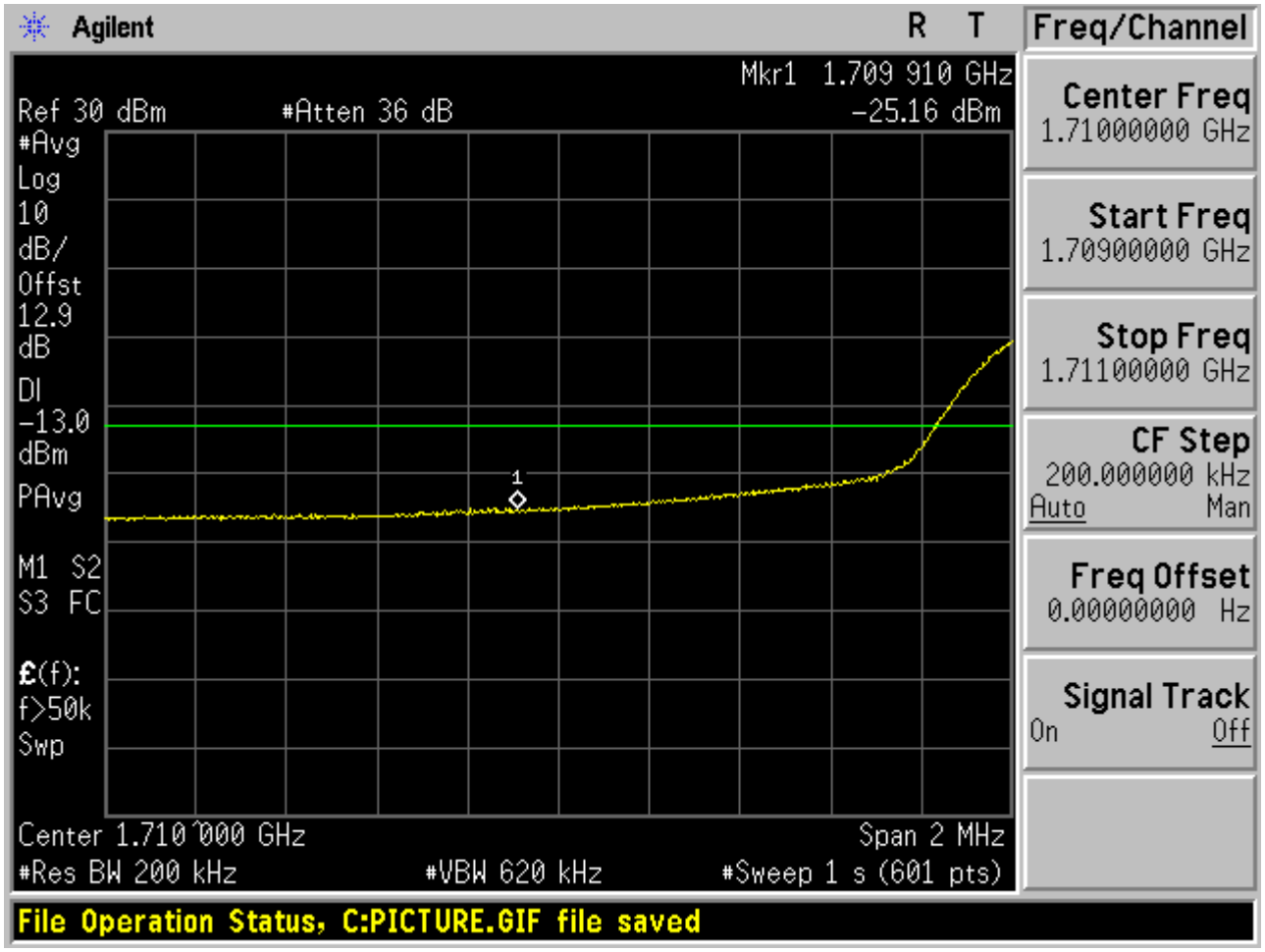
2.1.4.1.2 QPSK/1RB #max



2.1.4.1.3 QPSK/Partial RBs /RB #25

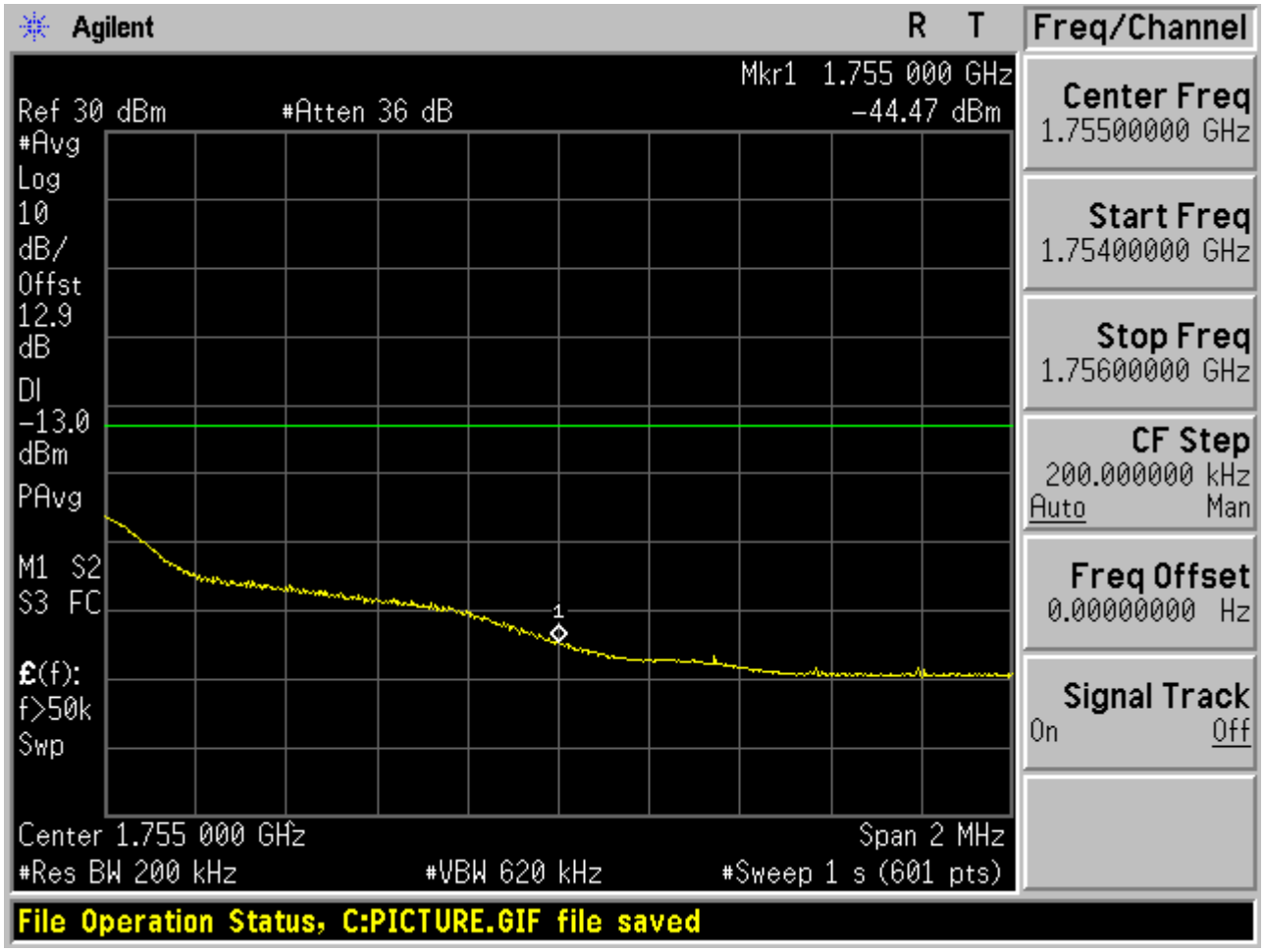


2.1.4.1.4 QPSK/full RBs

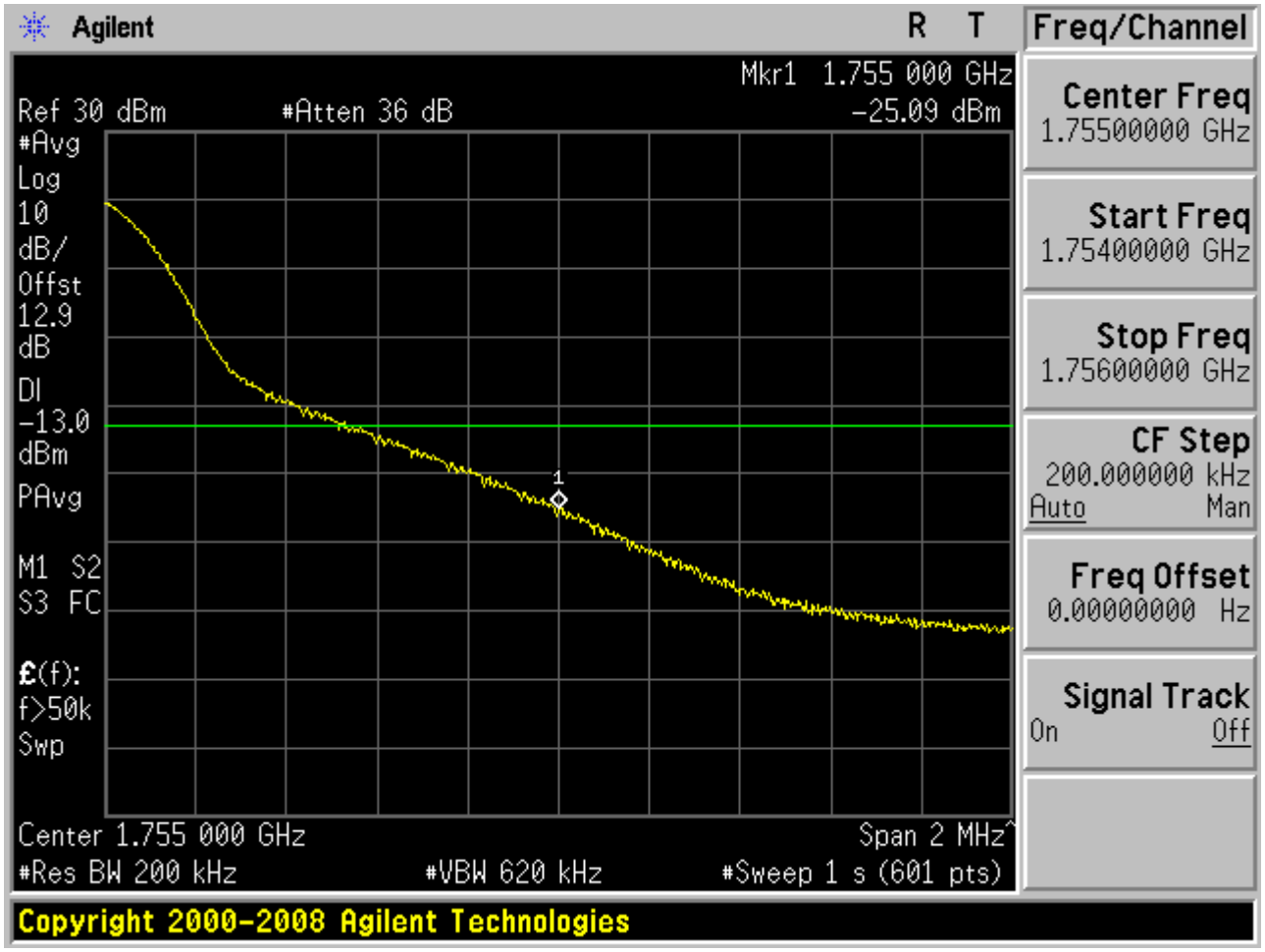


2.1.4.2 Channel= T

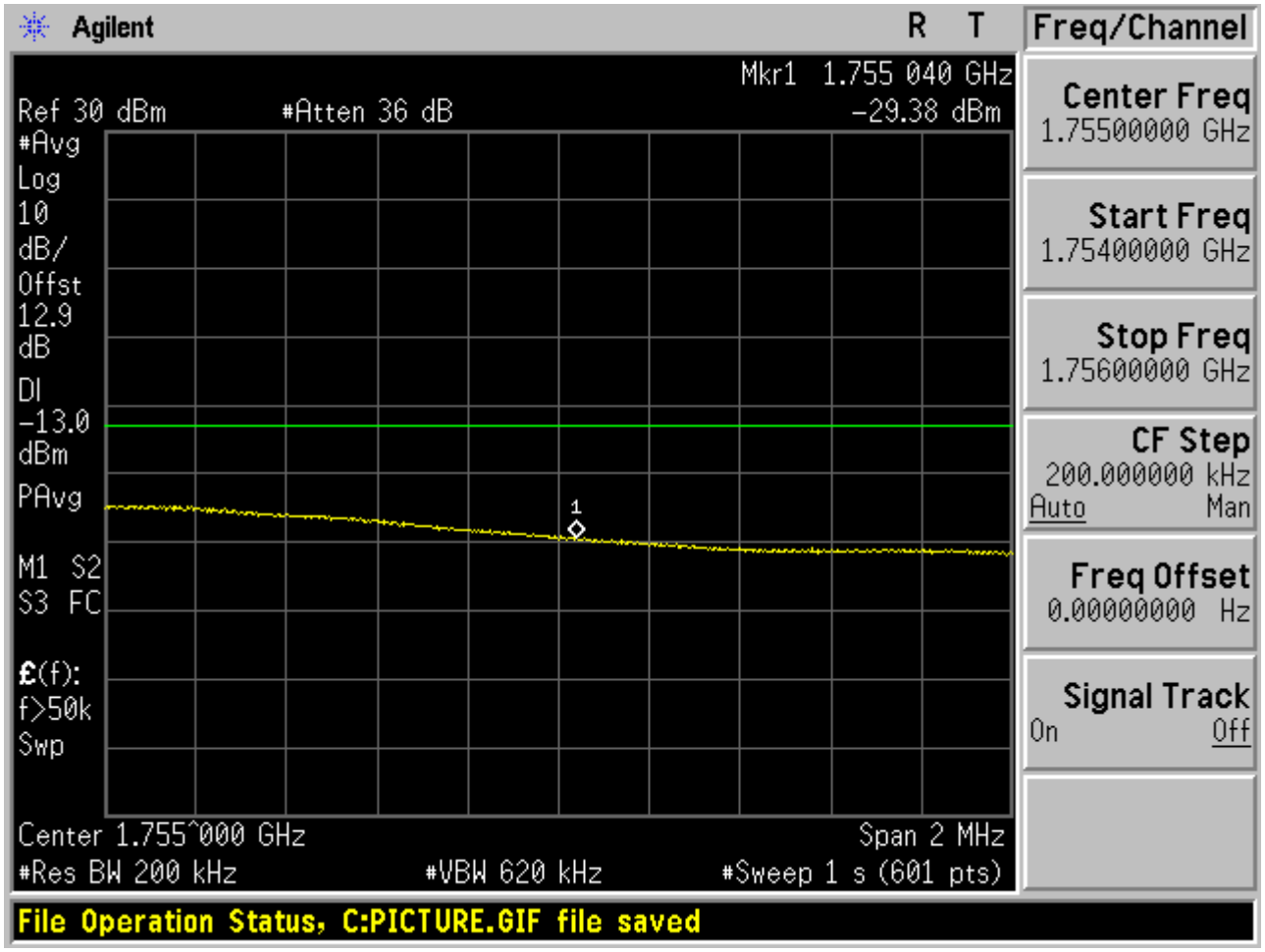
2.1.4.2.1 QPSK/1RB #0



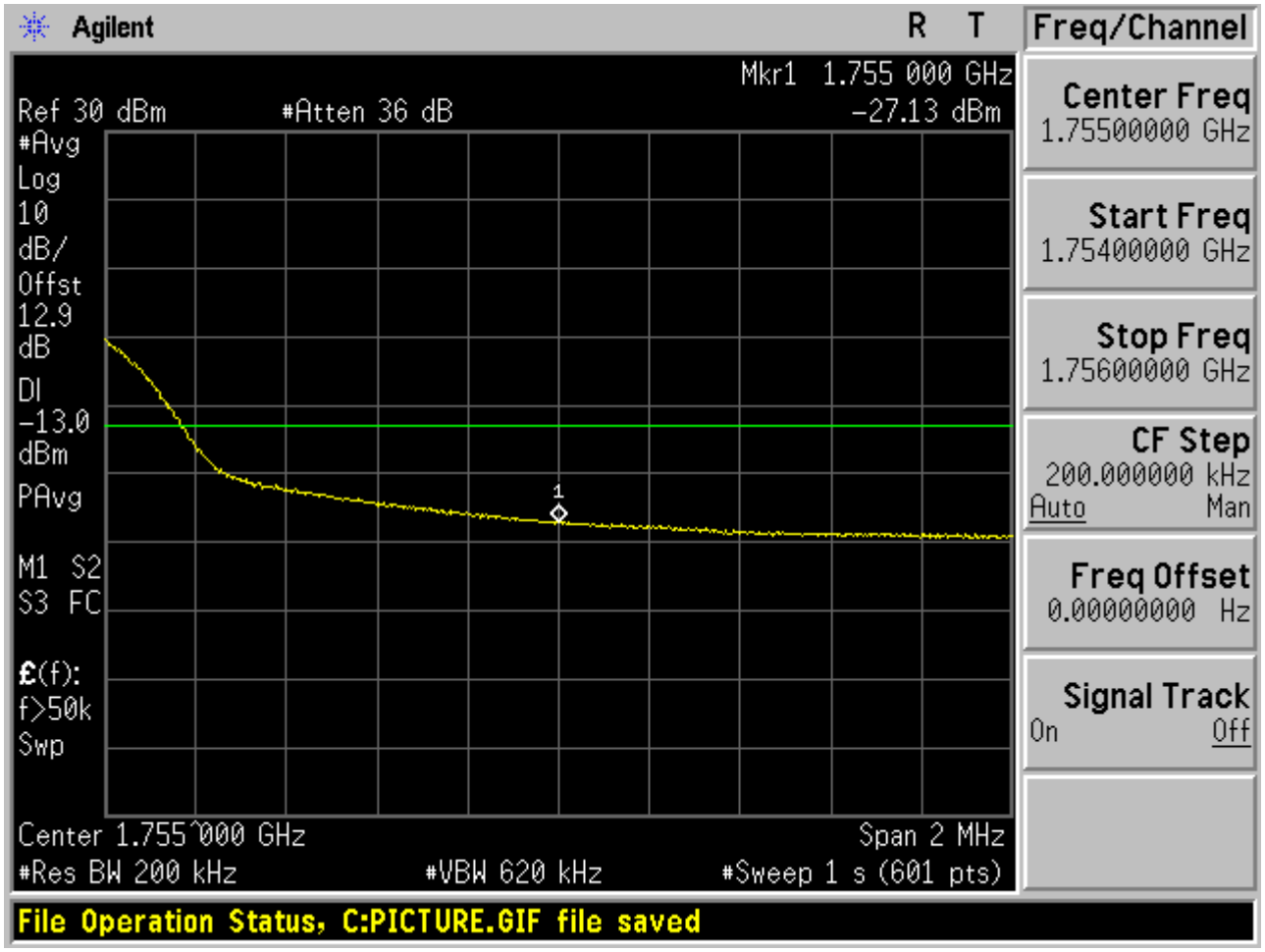
2.1.4.2.2 QPSK/1RB #max



2.1.4.2.3 QPSK/Partial RBs /RB #25



2.1.4.2.4 QPSK/full RBs

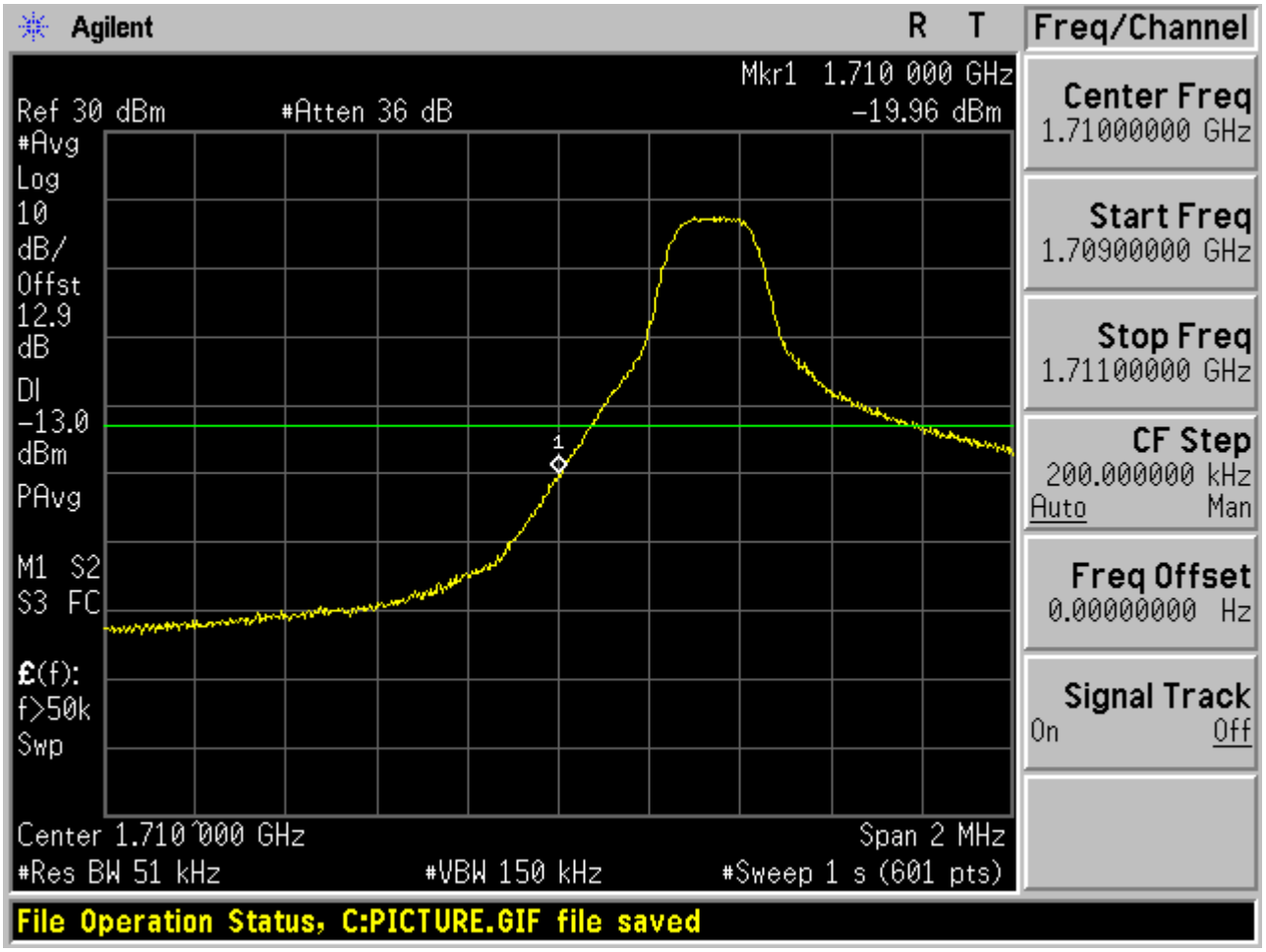

Agilent
R T
Freq/Channel
Mkr1 1.755 000 GHz
-27.13 dBm
Ref 30 dBm
#Atten 36 dB
#Avg
Log
10
dB/
Offst
12.9
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
Center 1.755 000 GHz
Span 2 MHz
#Res BW 200 kHz
#VBW 620 kHz
#Sweep 1 s (601 pts)
Center Freq
1.75500000 GHz
Start Freq
1.75400000 GHz
Stop Freq
1.75600000 GHz
CF Step
200.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

2.2 Test Mode=TM5

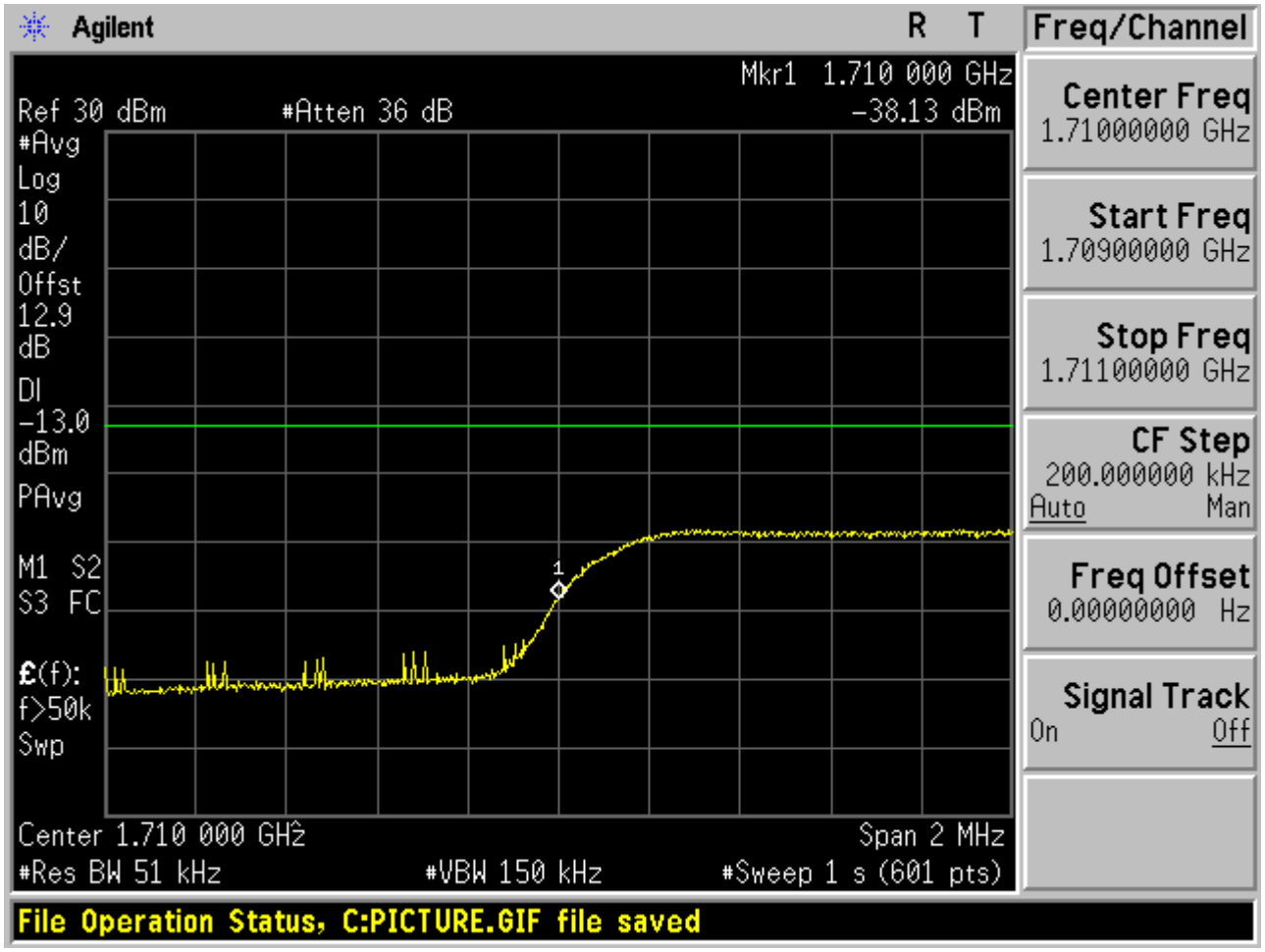
2.2.1 Channel Bandwidth = Lowest (5 MHz)

2.2.1.1 Channel= B

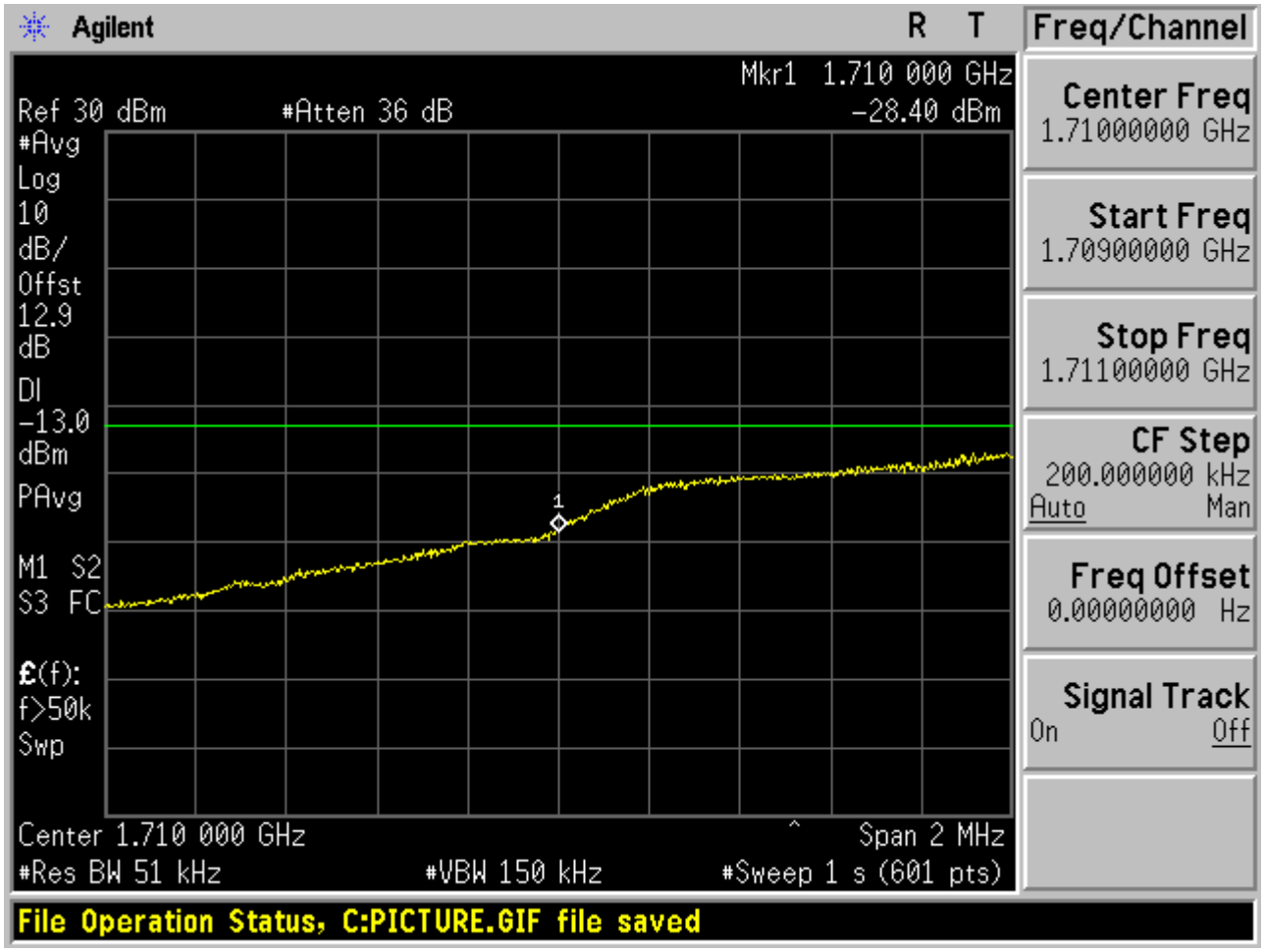
2.2.1.1.1 QPSK/1RB #0



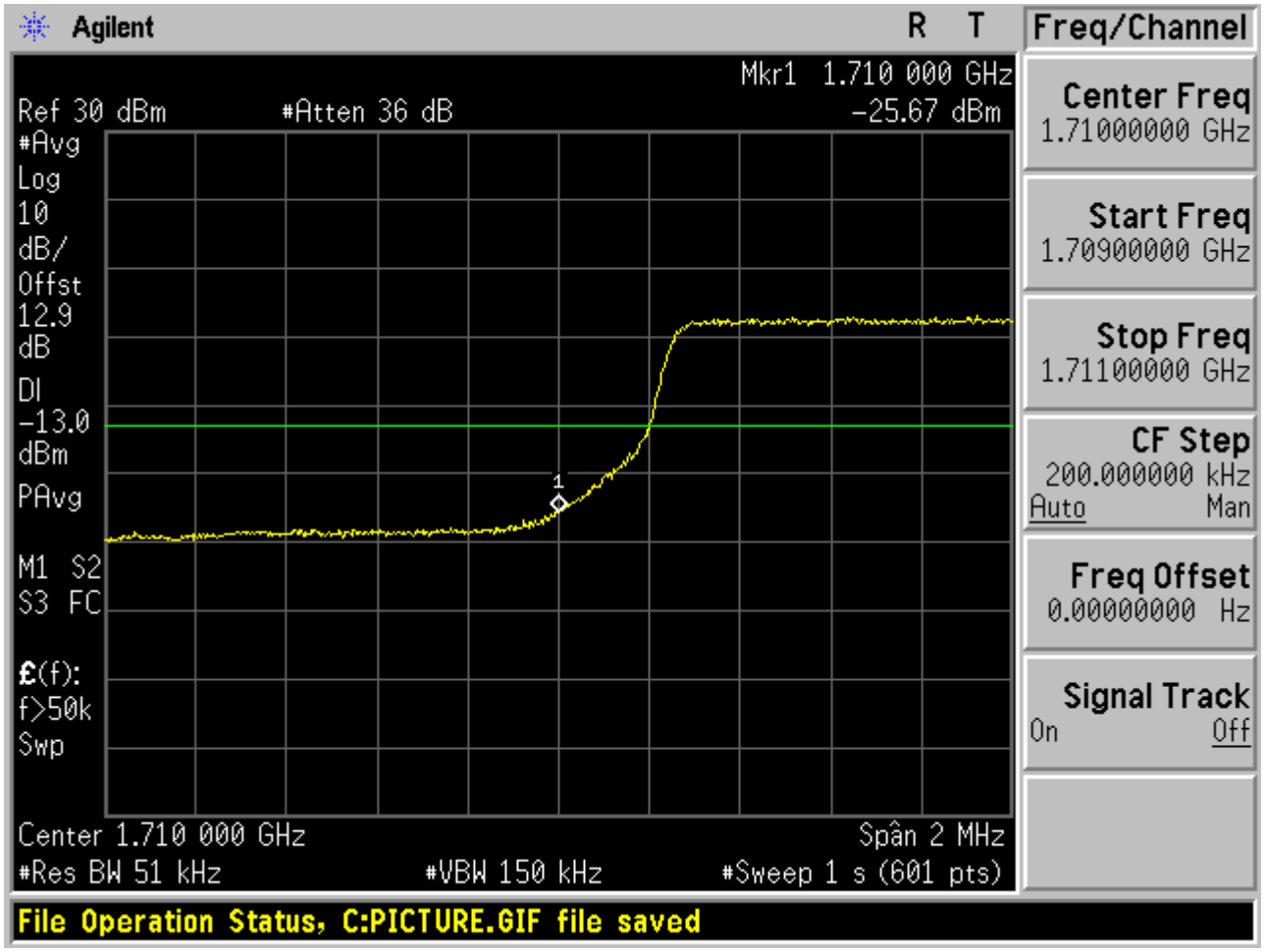
2.2.1.1.2 QPSK/1RB #max



2.2.1.1.3 QPSK/Partial RBs /RB #6

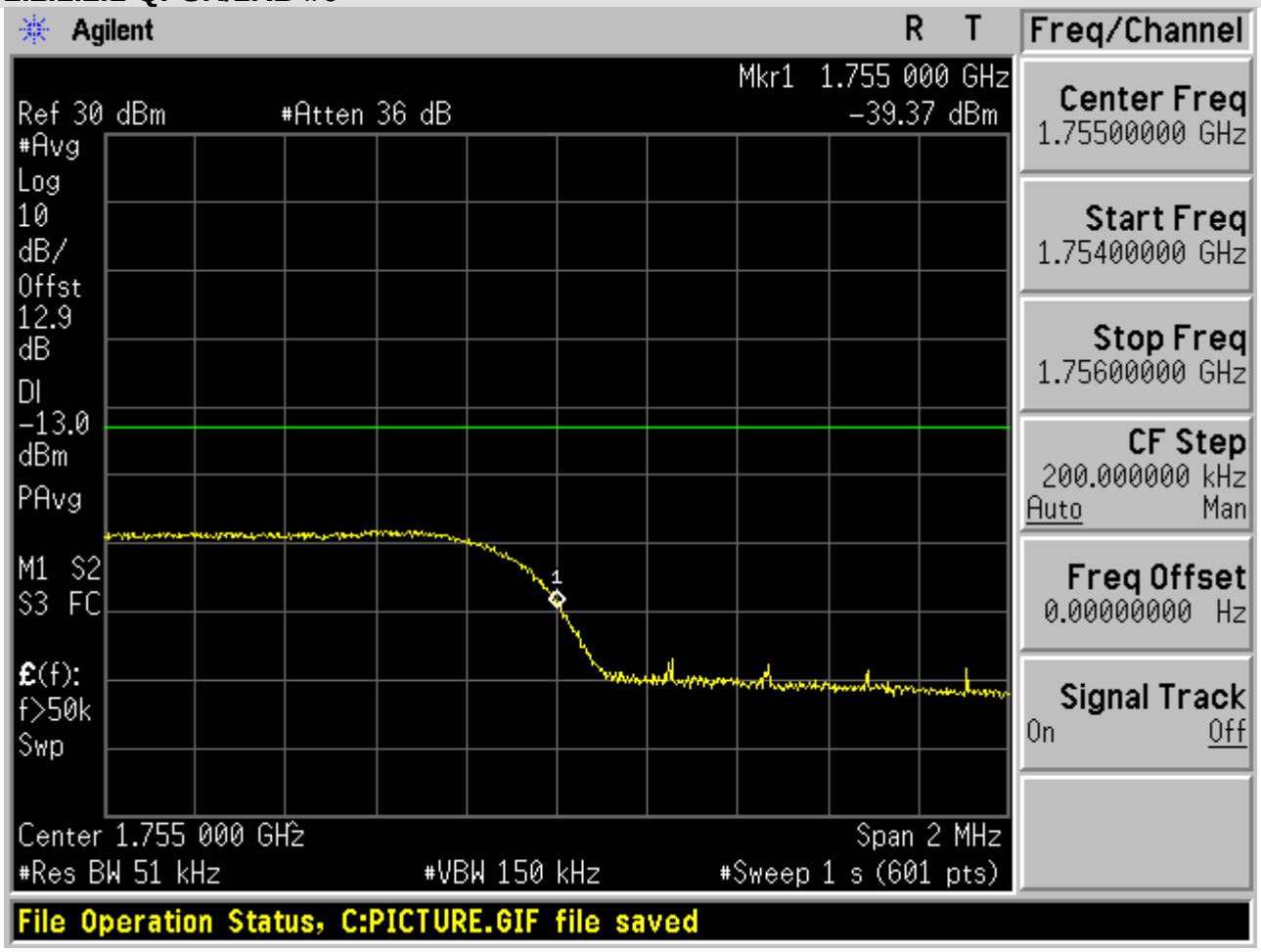


2.2.1.1.4 QPSK/full RBs

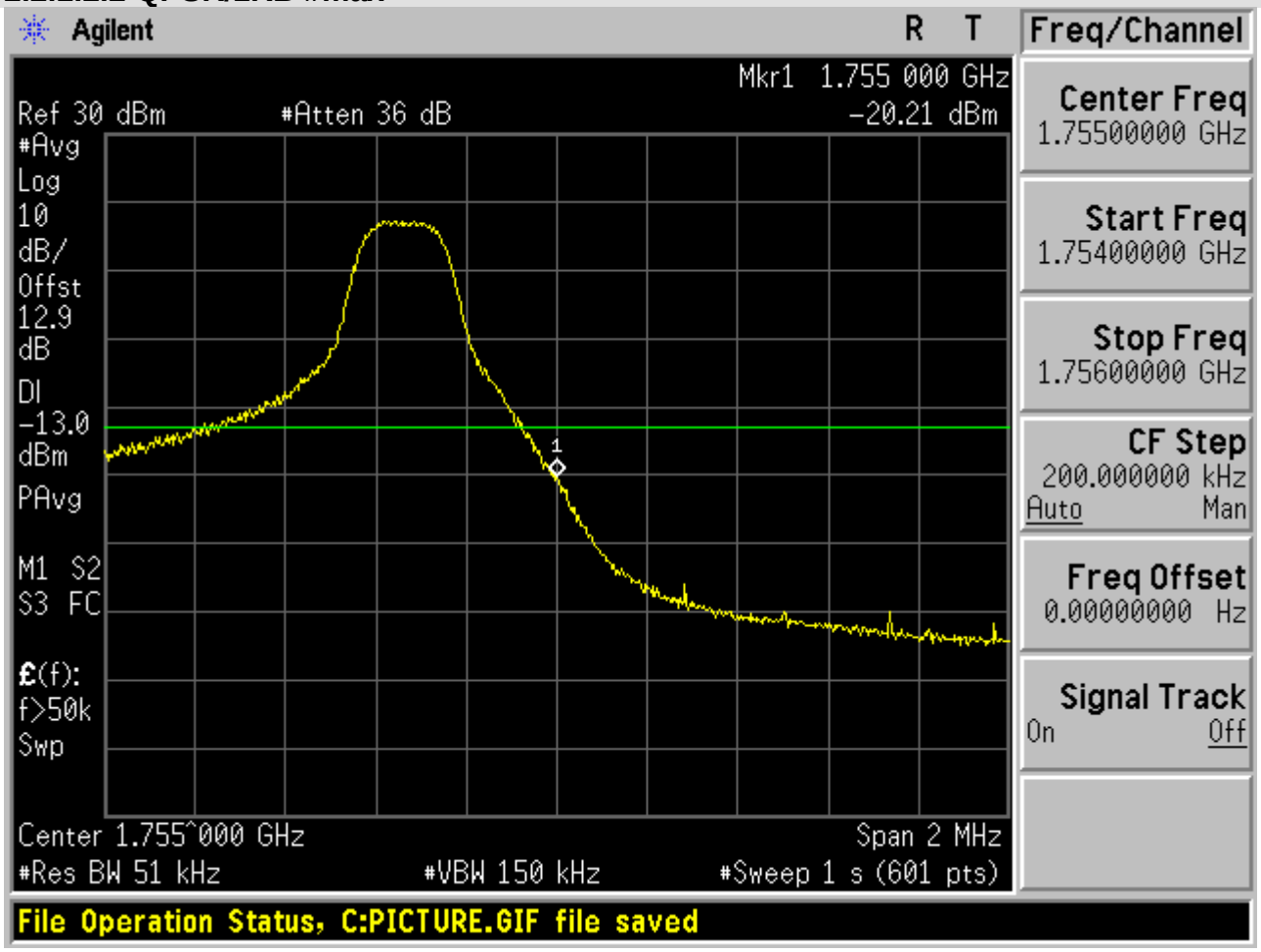


2.2.1.2 Channel= T

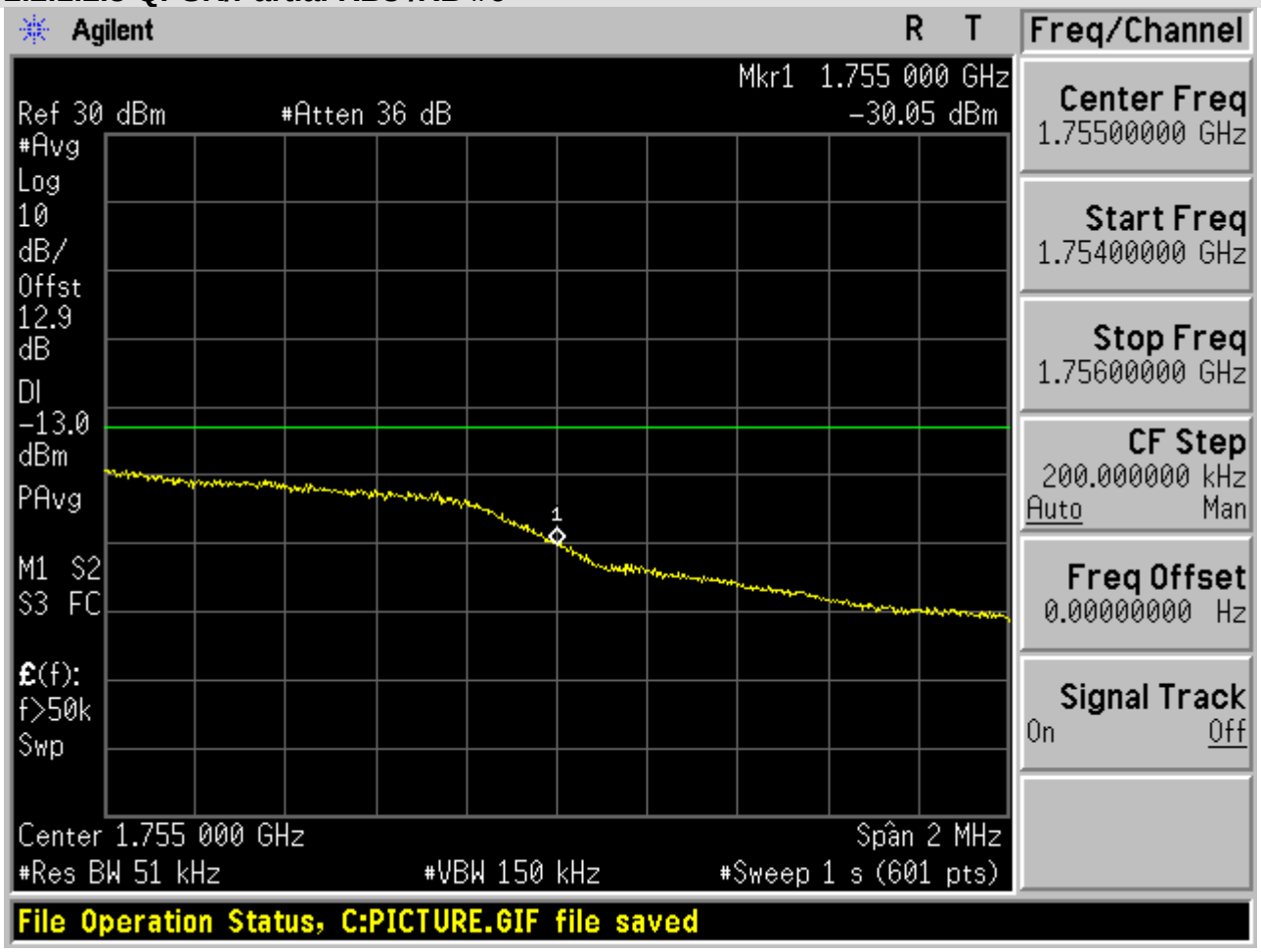
2.2.1.2.1 QPSK/1RB #0



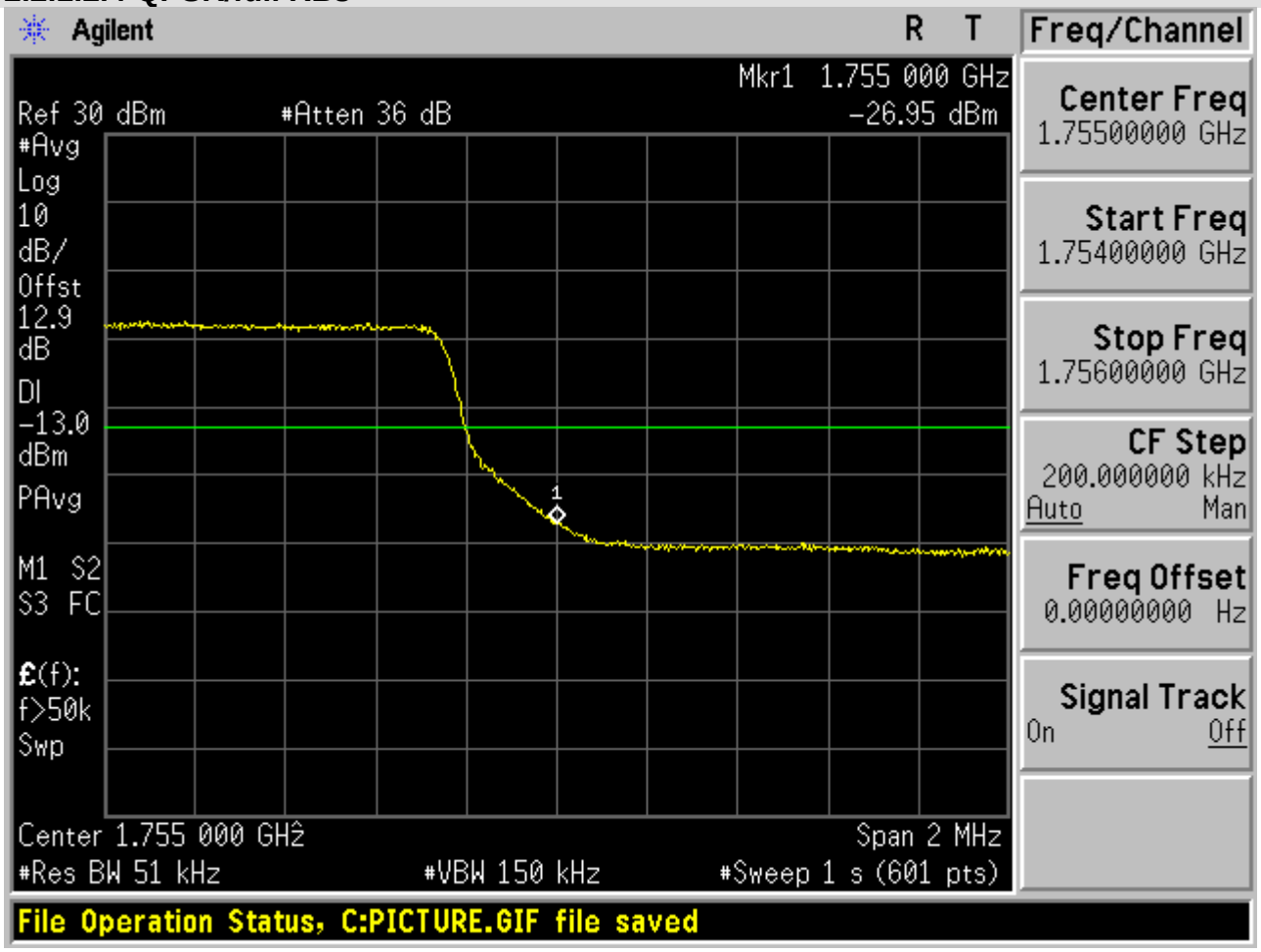
2.2.1.2.2 QPSK/1RB #max



2.2.1.2.3 QPSK/Partial RBs /RB #6



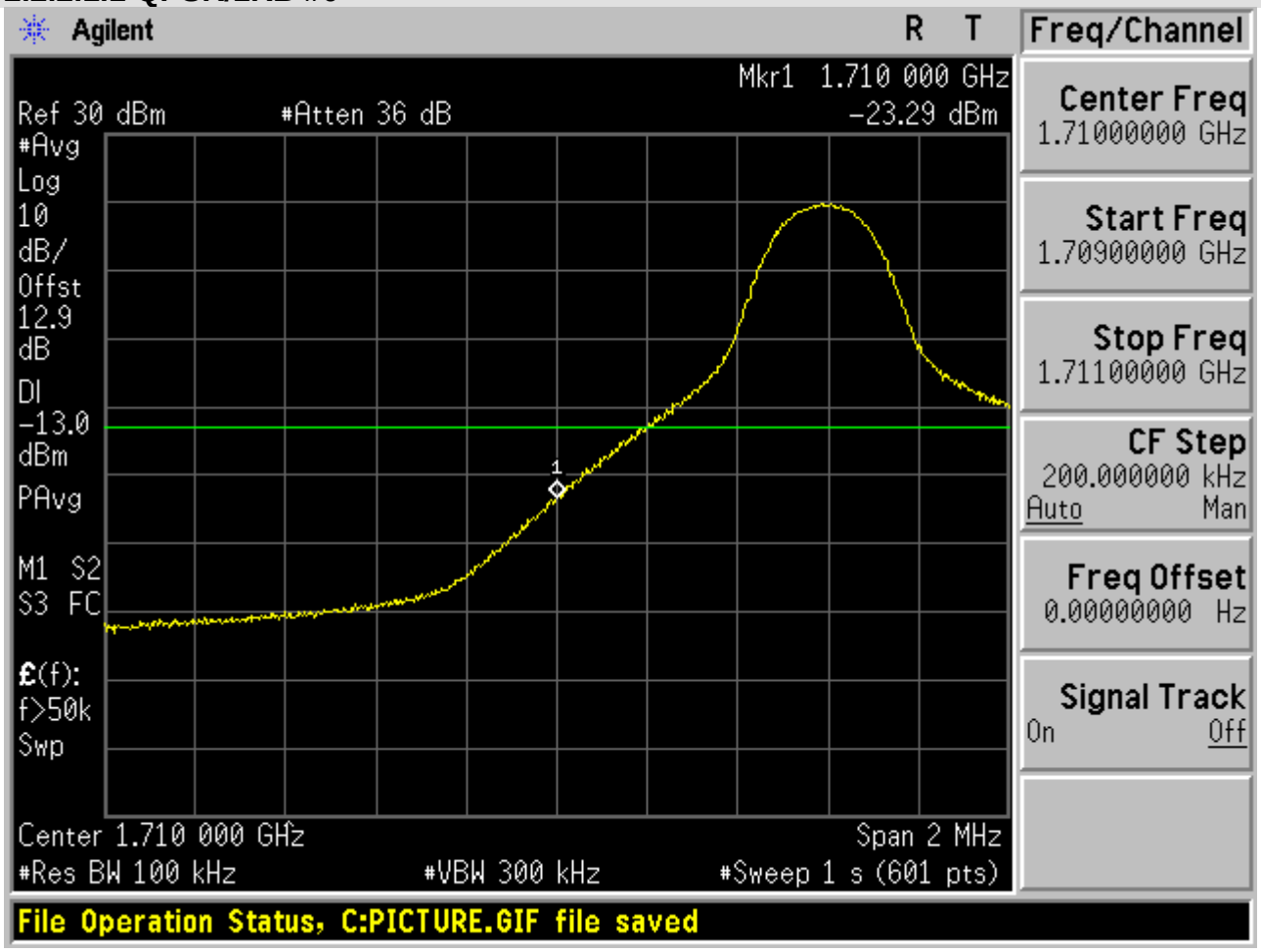
2.2.1.2.4 QPSK/full RBs



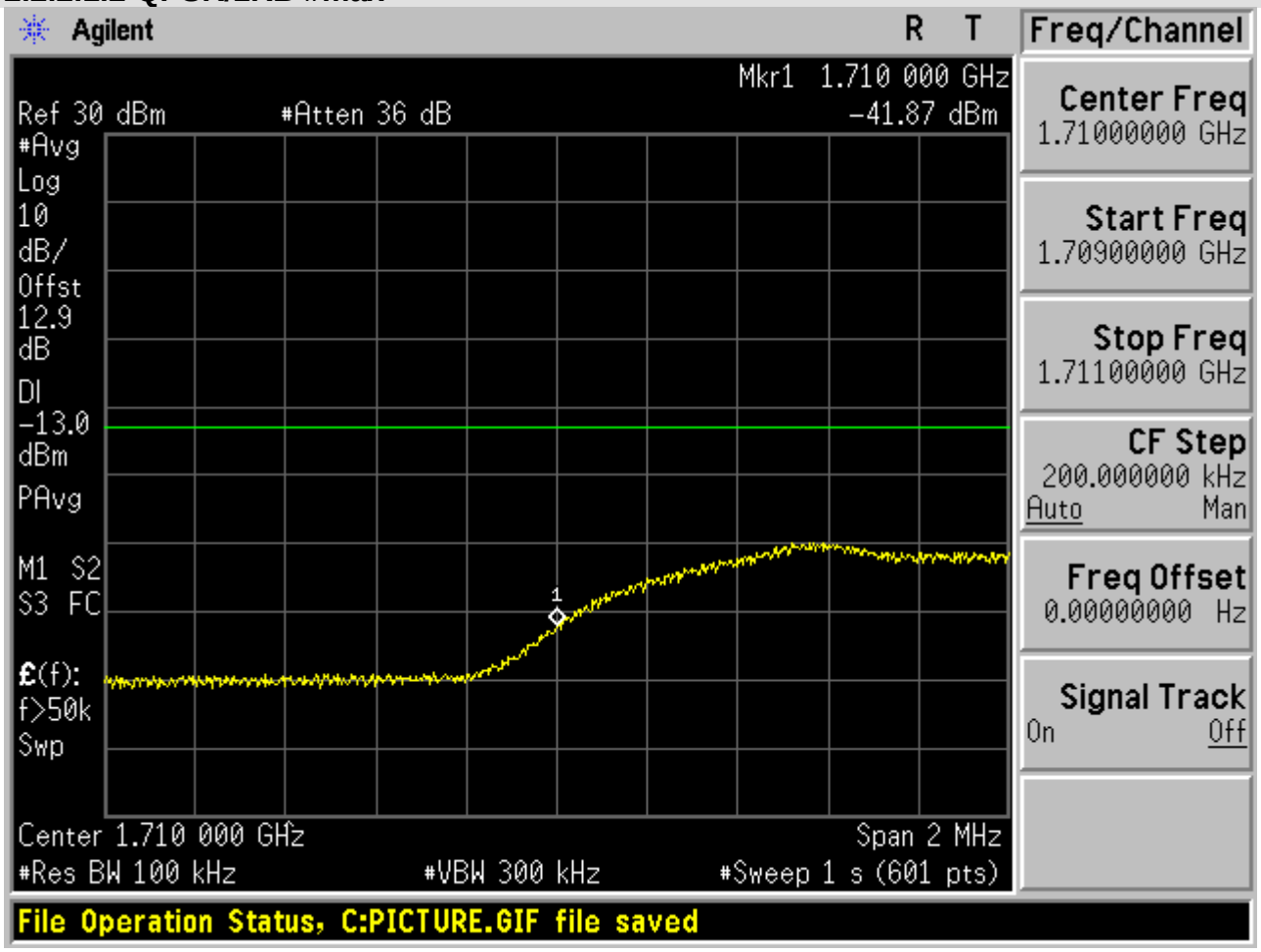
2.2.2 Channel Bandwidth = 10 MHz

2.2.2.1 Channel= B

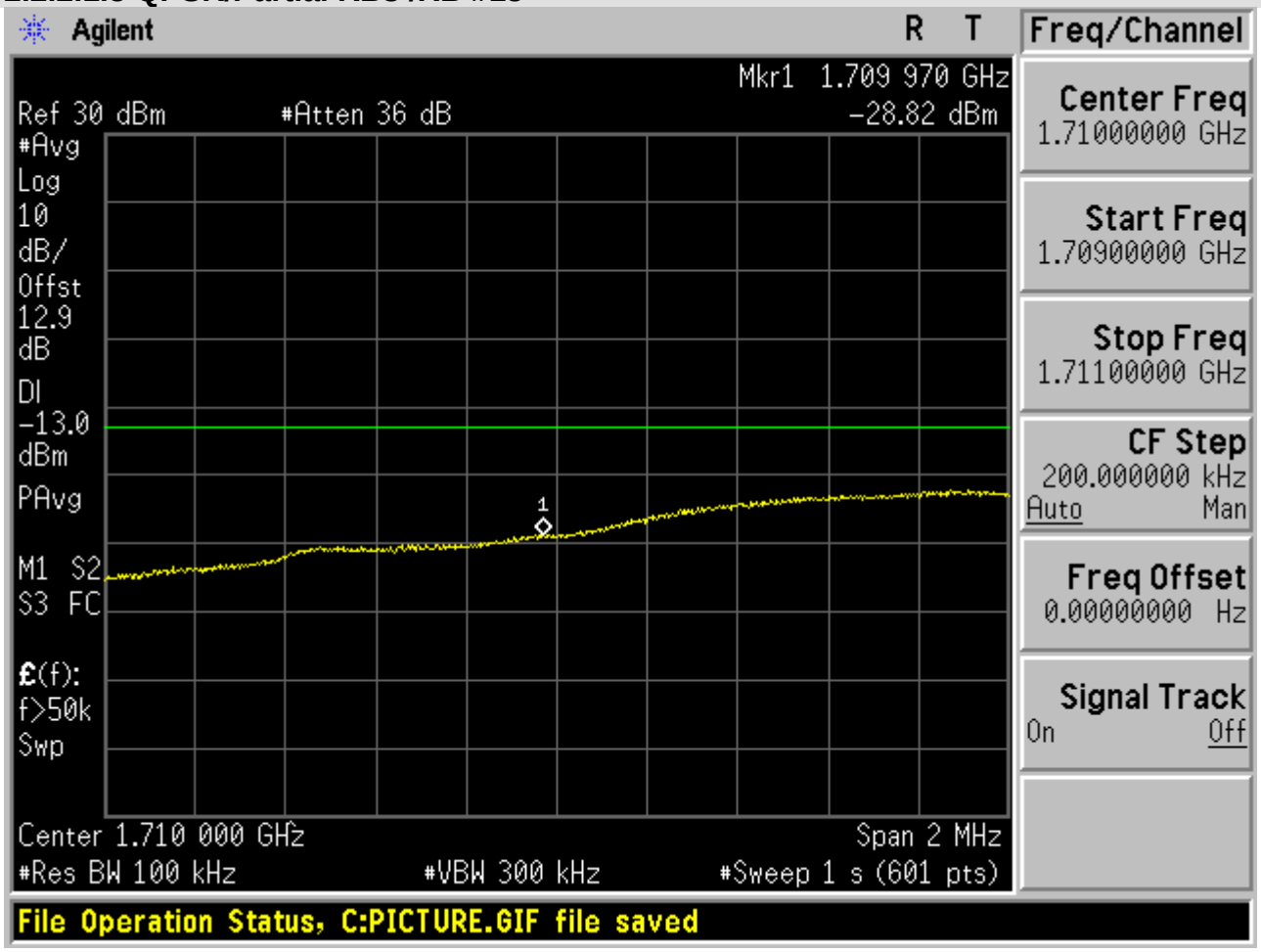
2.2.2.1.1 QPSK/1RB #0



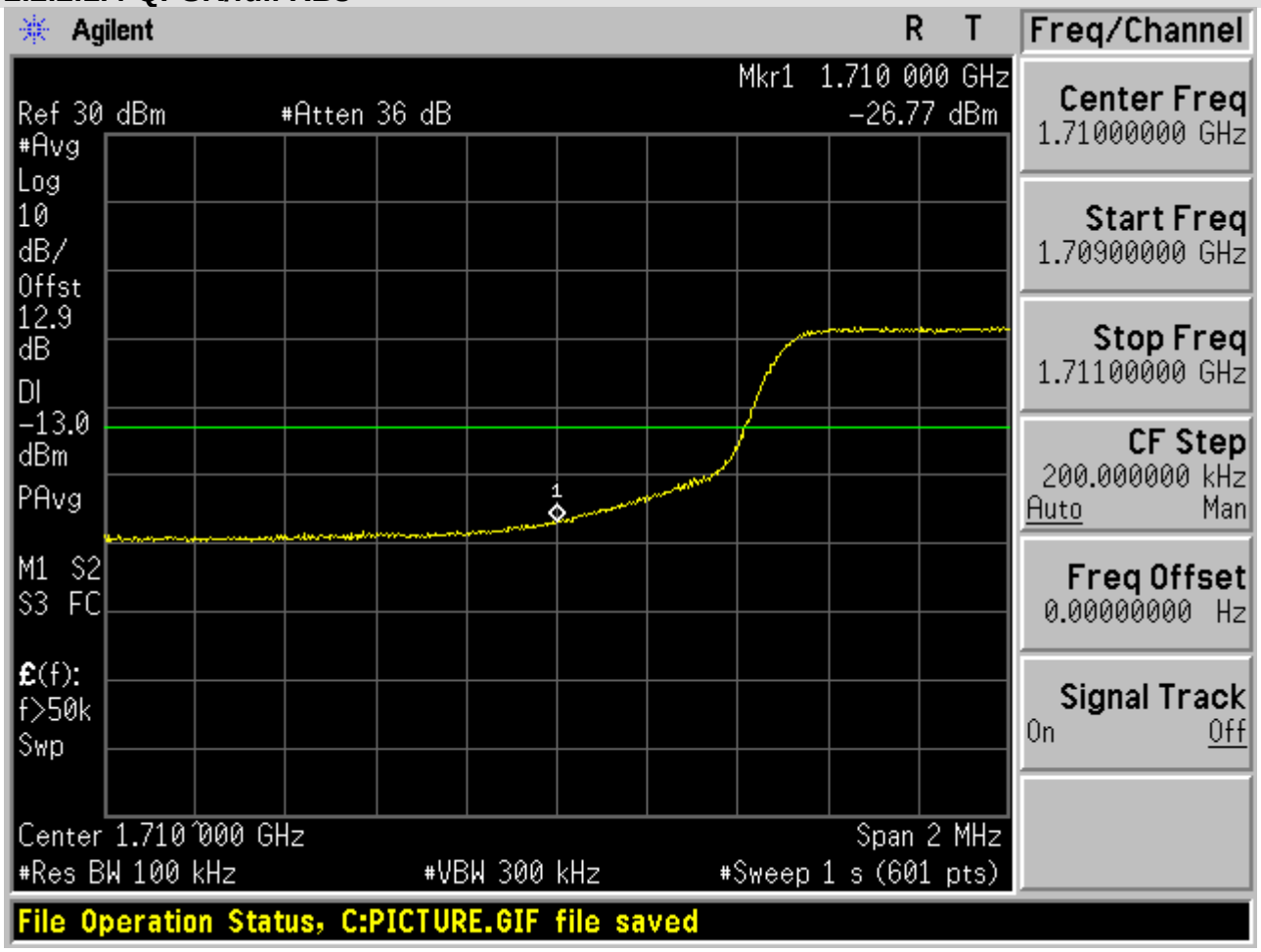
2.2.2.1.2 QPSK/1RB #max



2.2.2.1.3 QPSK/Partial RBs /RB #13

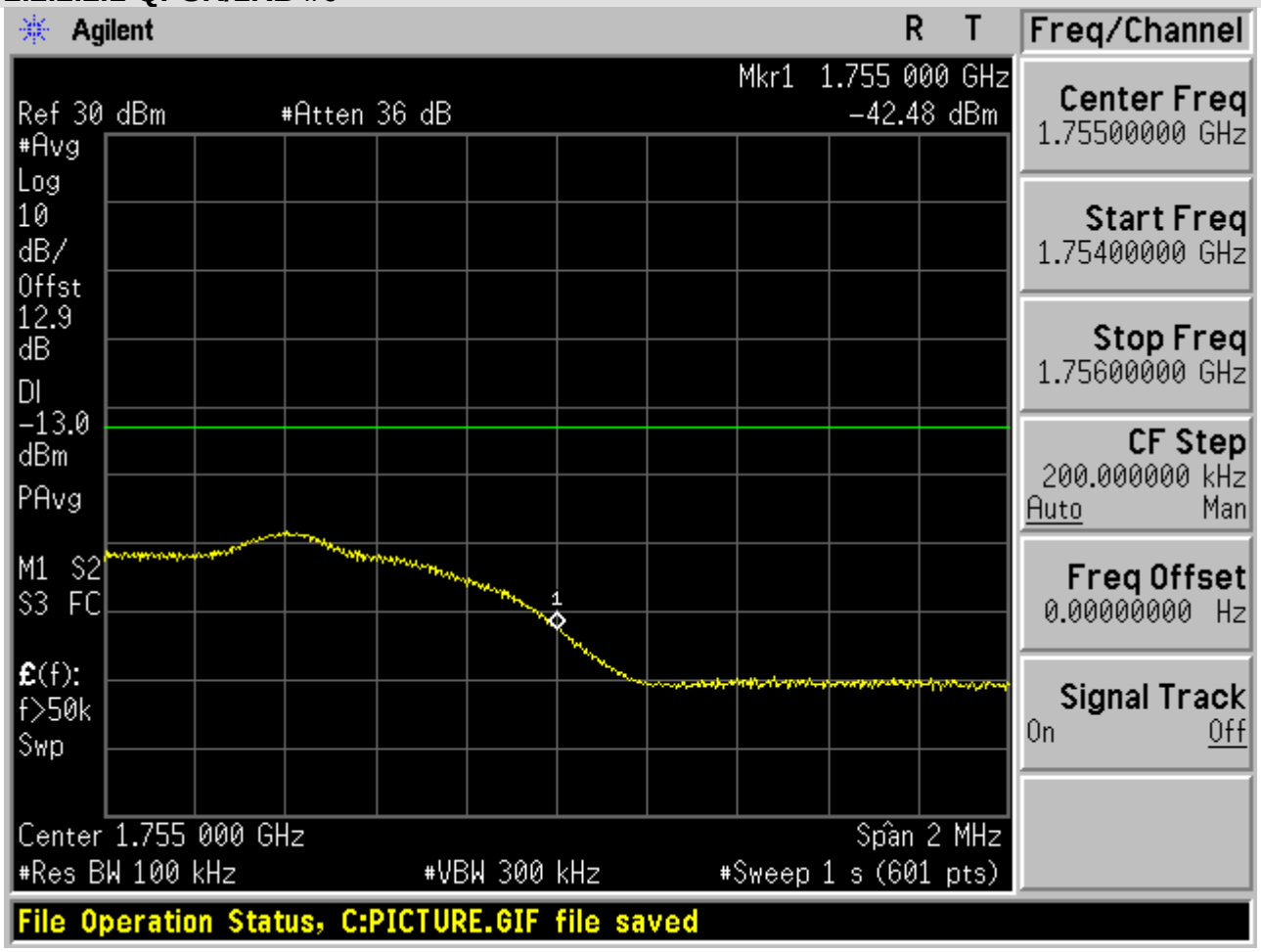


2.2.2.1.4 QPSK/full RBs

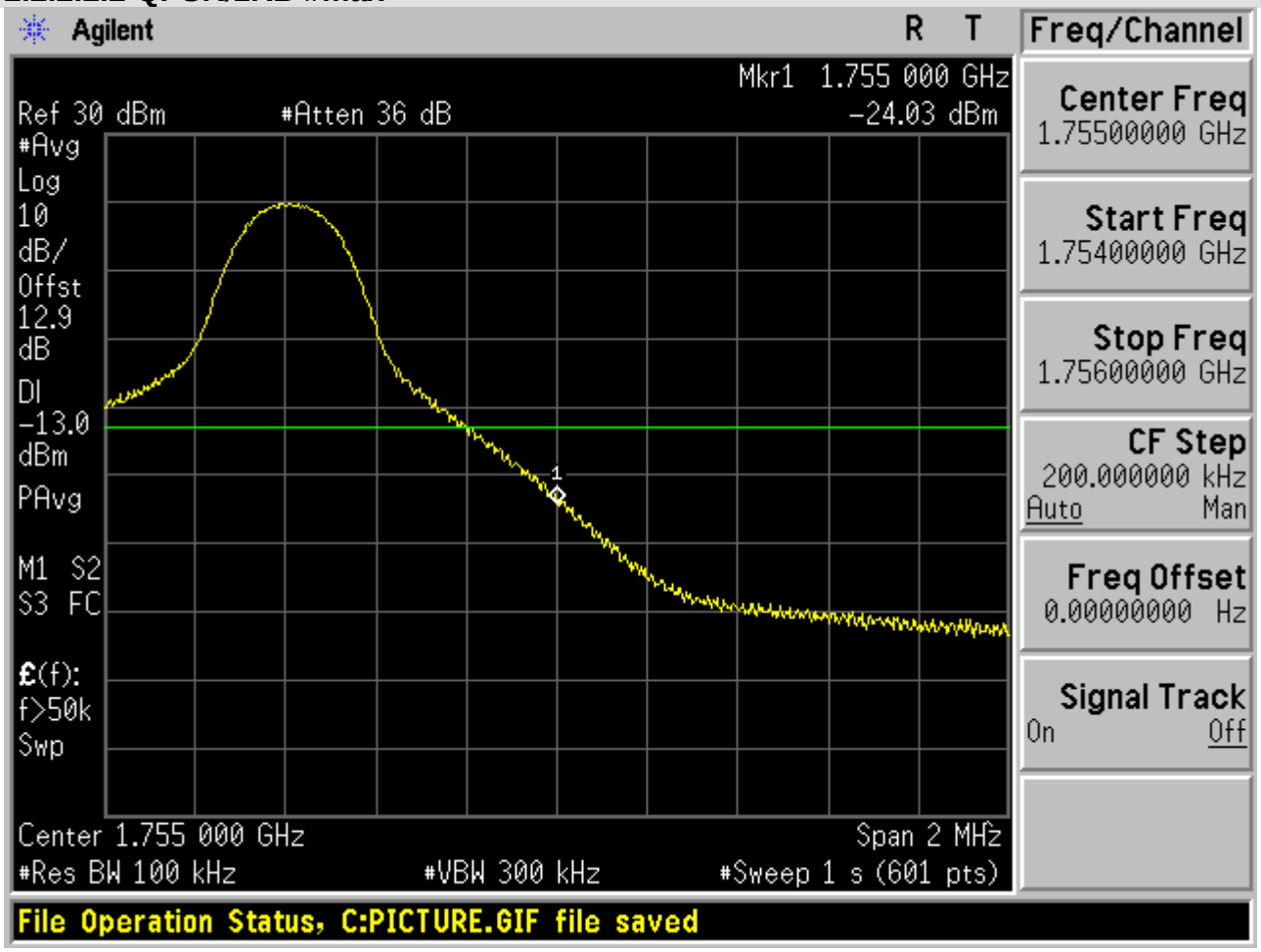


2.2.2.2 Channel= T

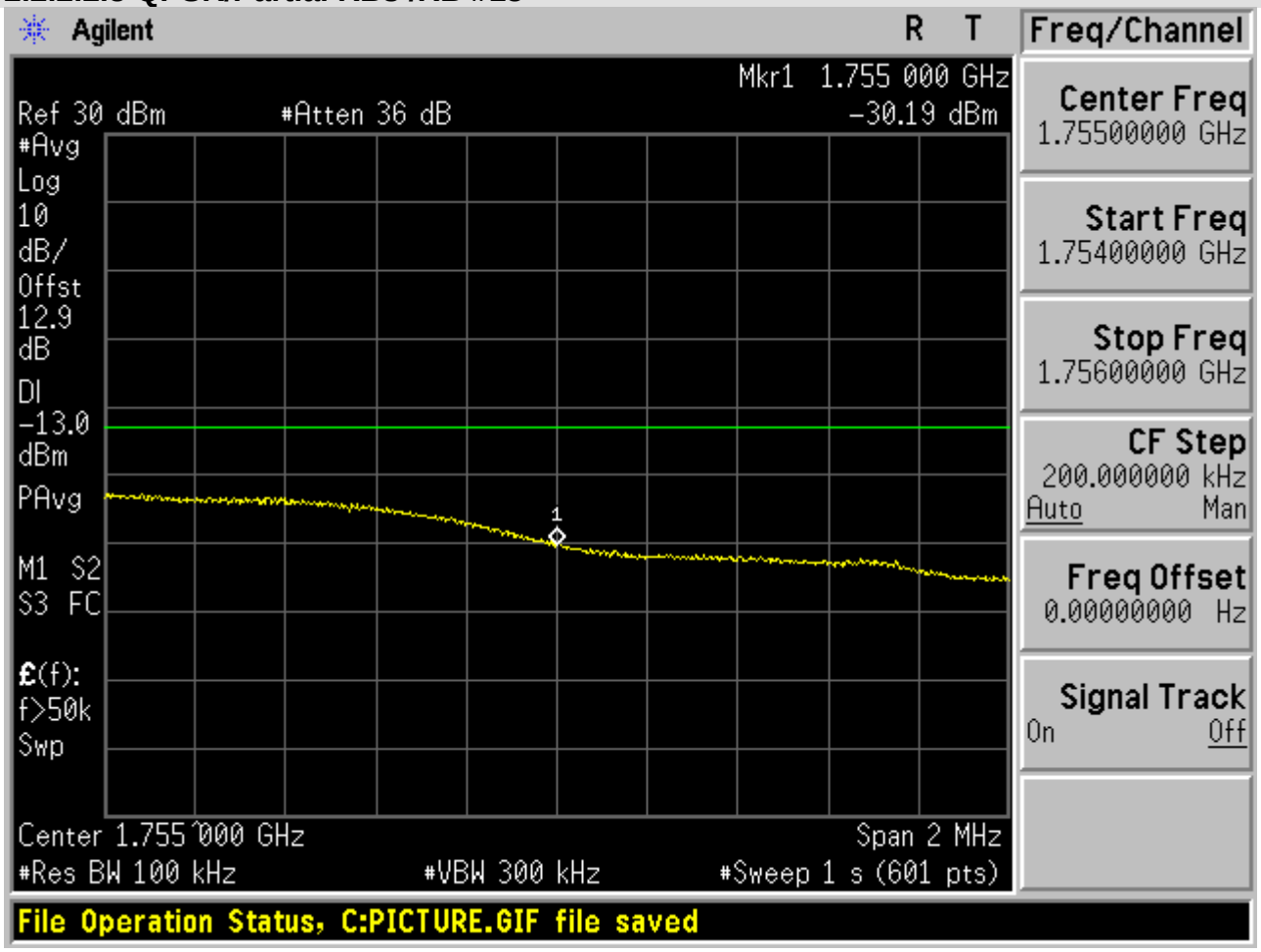
2.2.2.2.1 QPSK/1RB #0



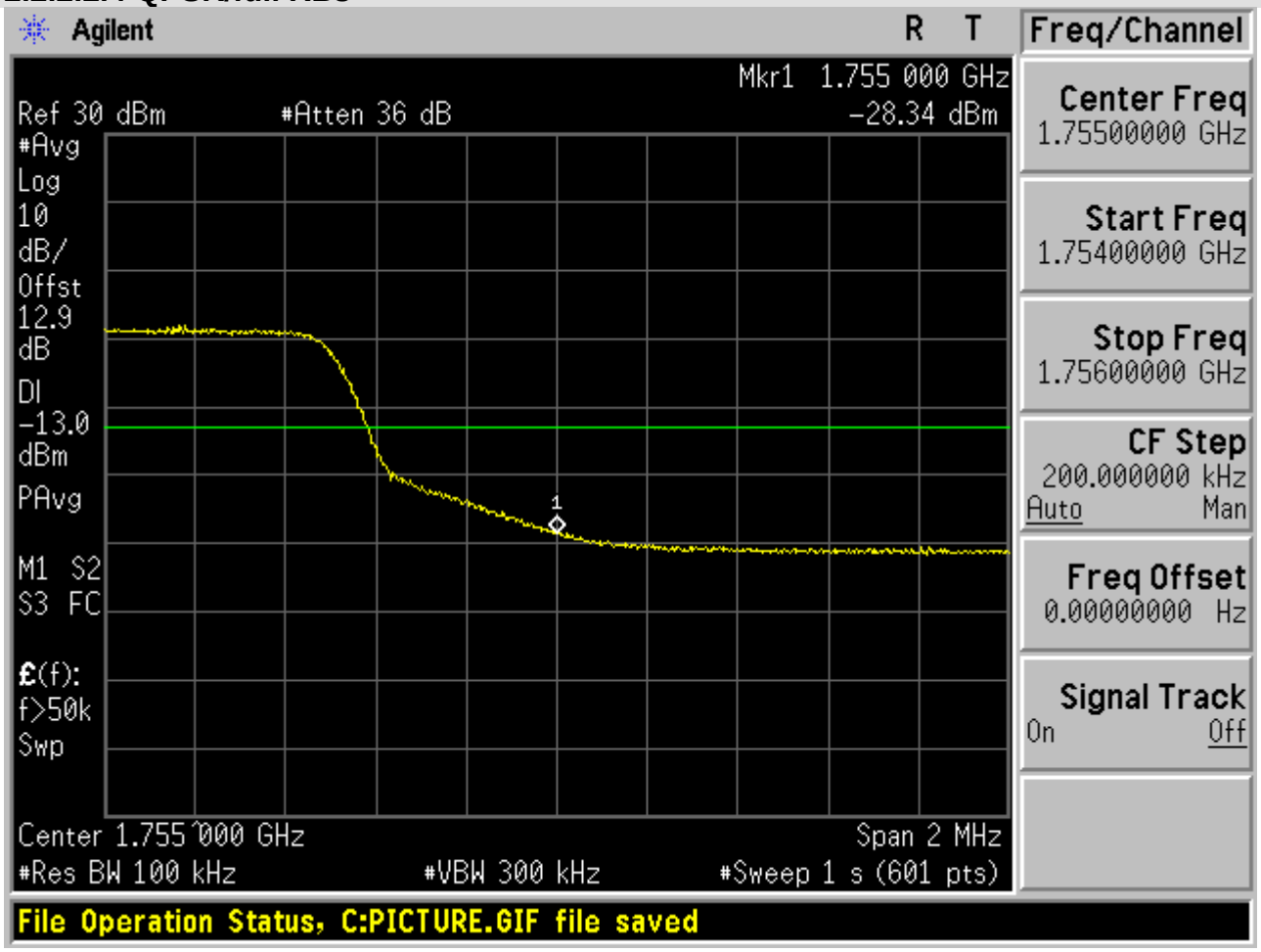
2.2.2.2.2 QPSK/1RB #max



2.2.2.2.3 QPSK/Partial RBs /RB #13



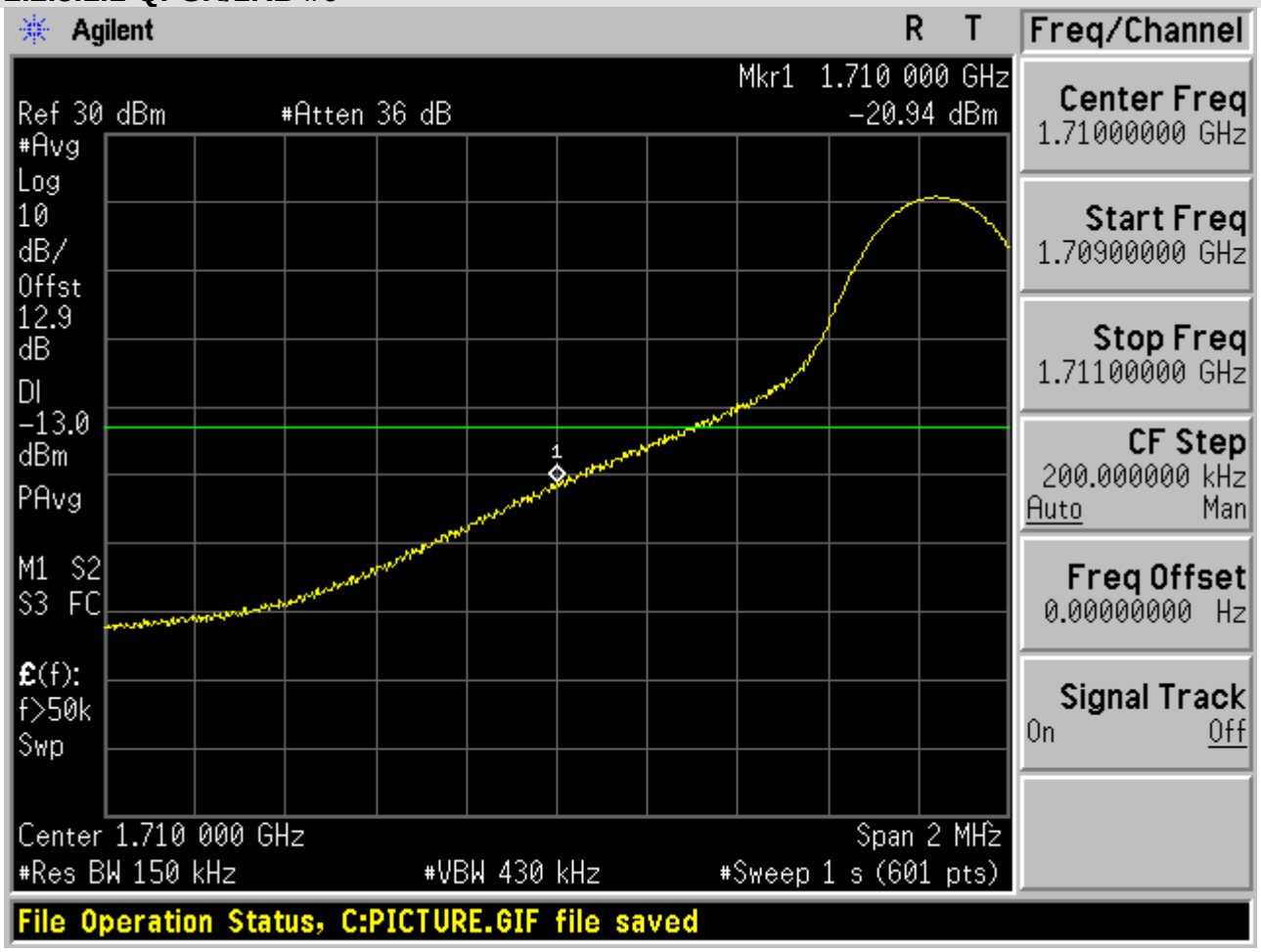
2.2.2.2.4 QPSK/full RBs



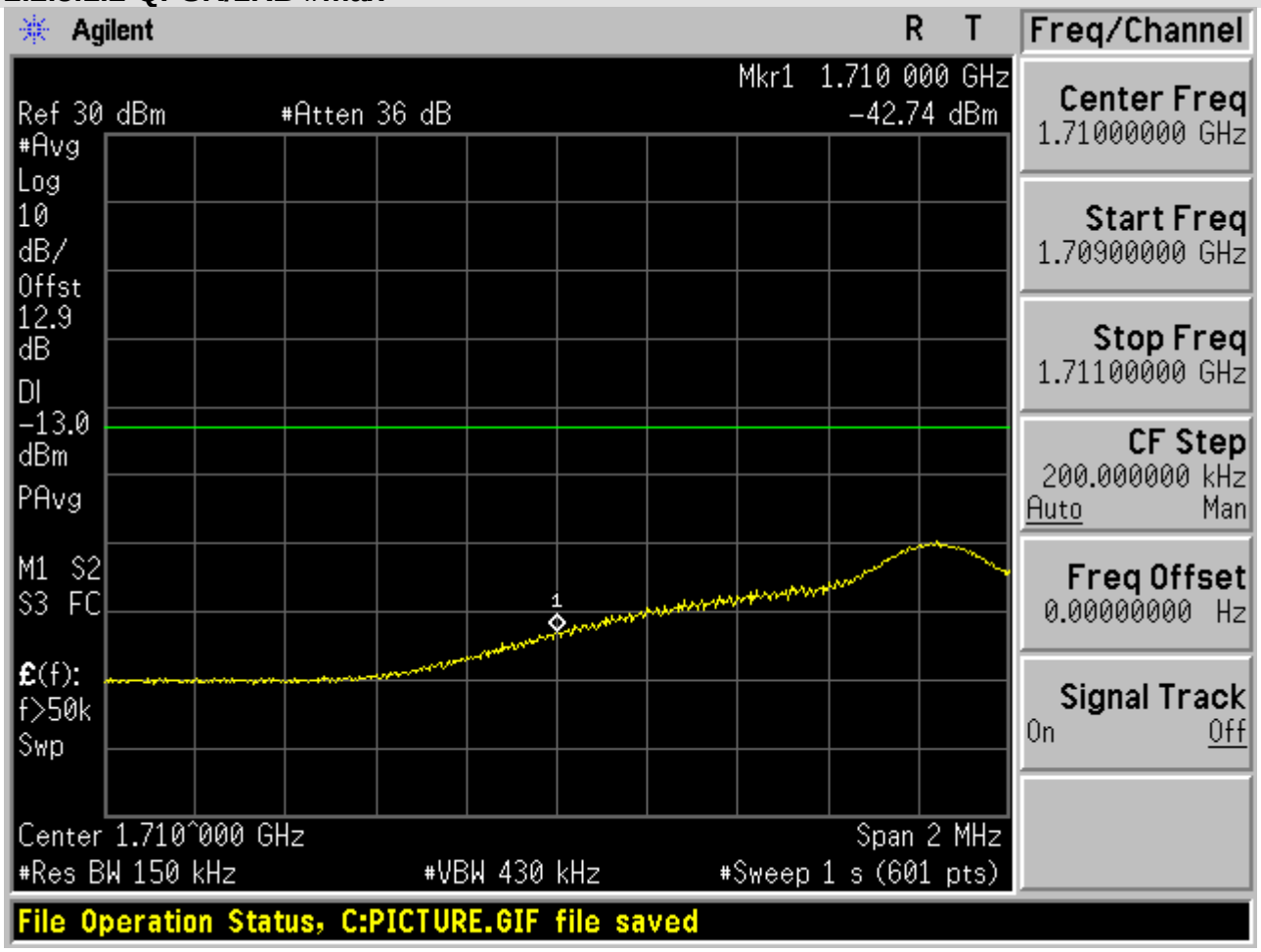
2.2.3 Channel Bandwidth = 15 MHz

2.2.3.1 Channel= B

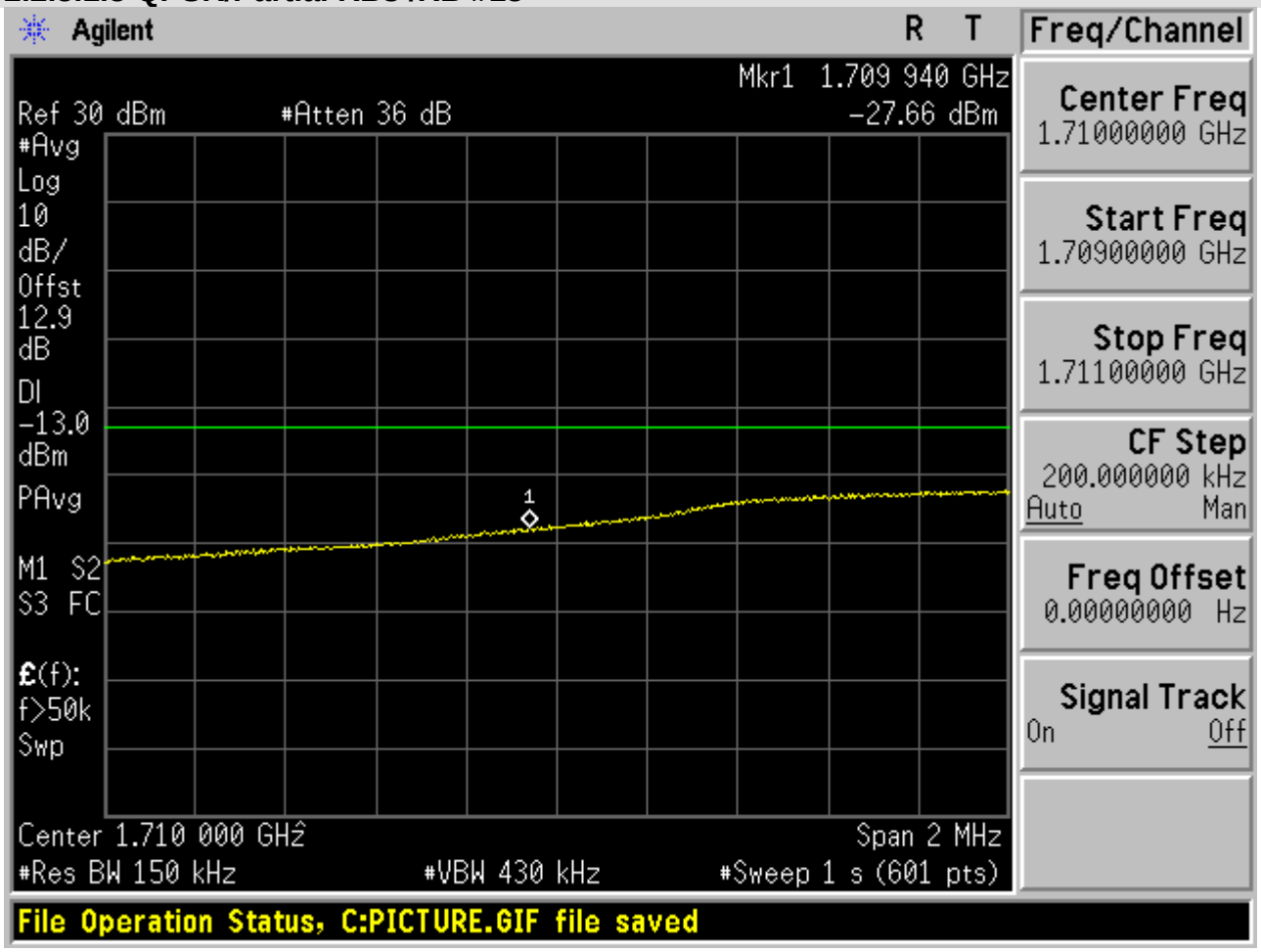
2.2.3.1.1 QPSK/1RB #0



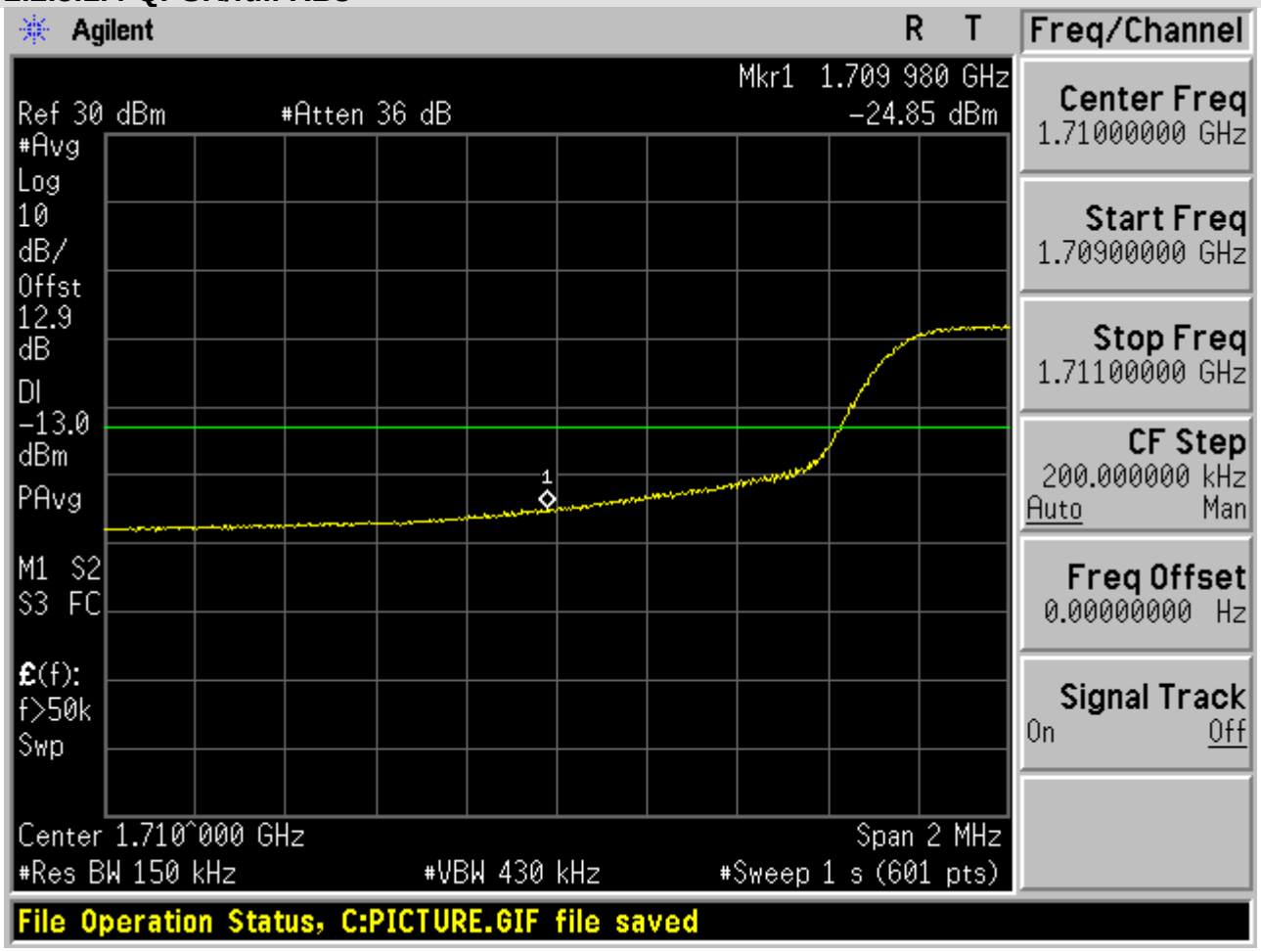
2.2.3.1.2 QPSK/1RB #max



2.2.3.1.3 QPSK/Partial RBs /RB #18

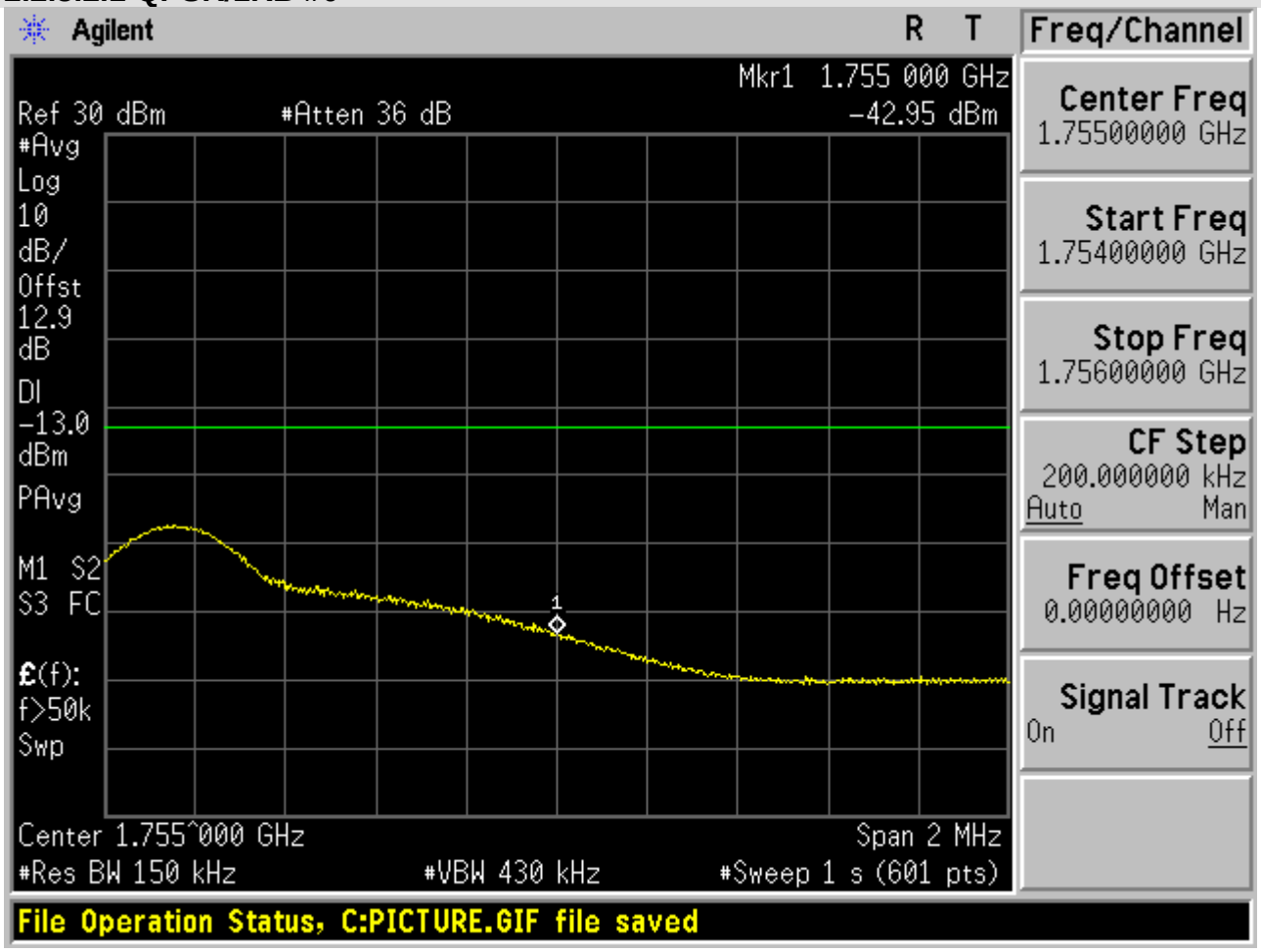


2.2.3.1.4 QPSK/full RBs

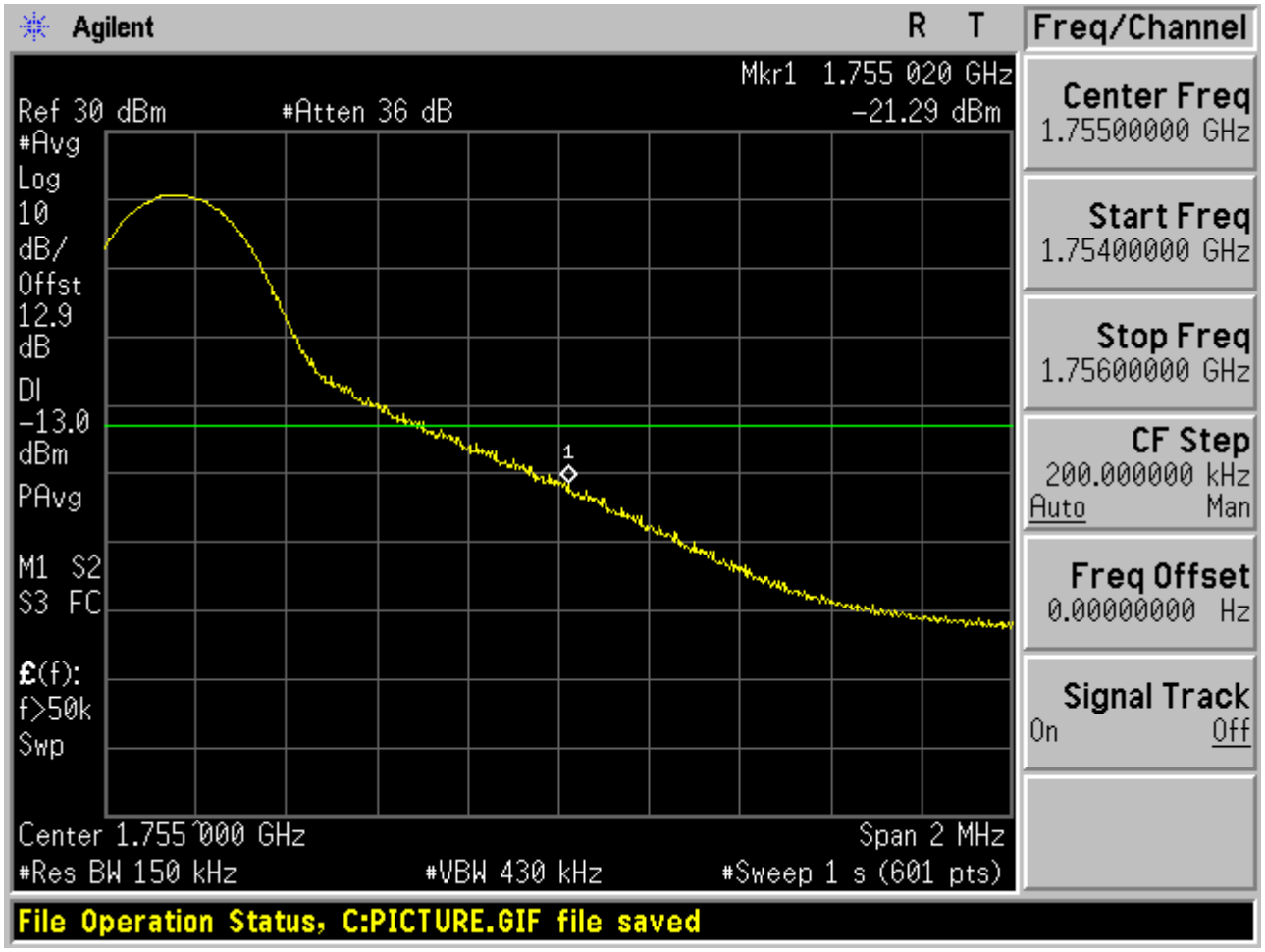


2.2.3.2 Channel= T

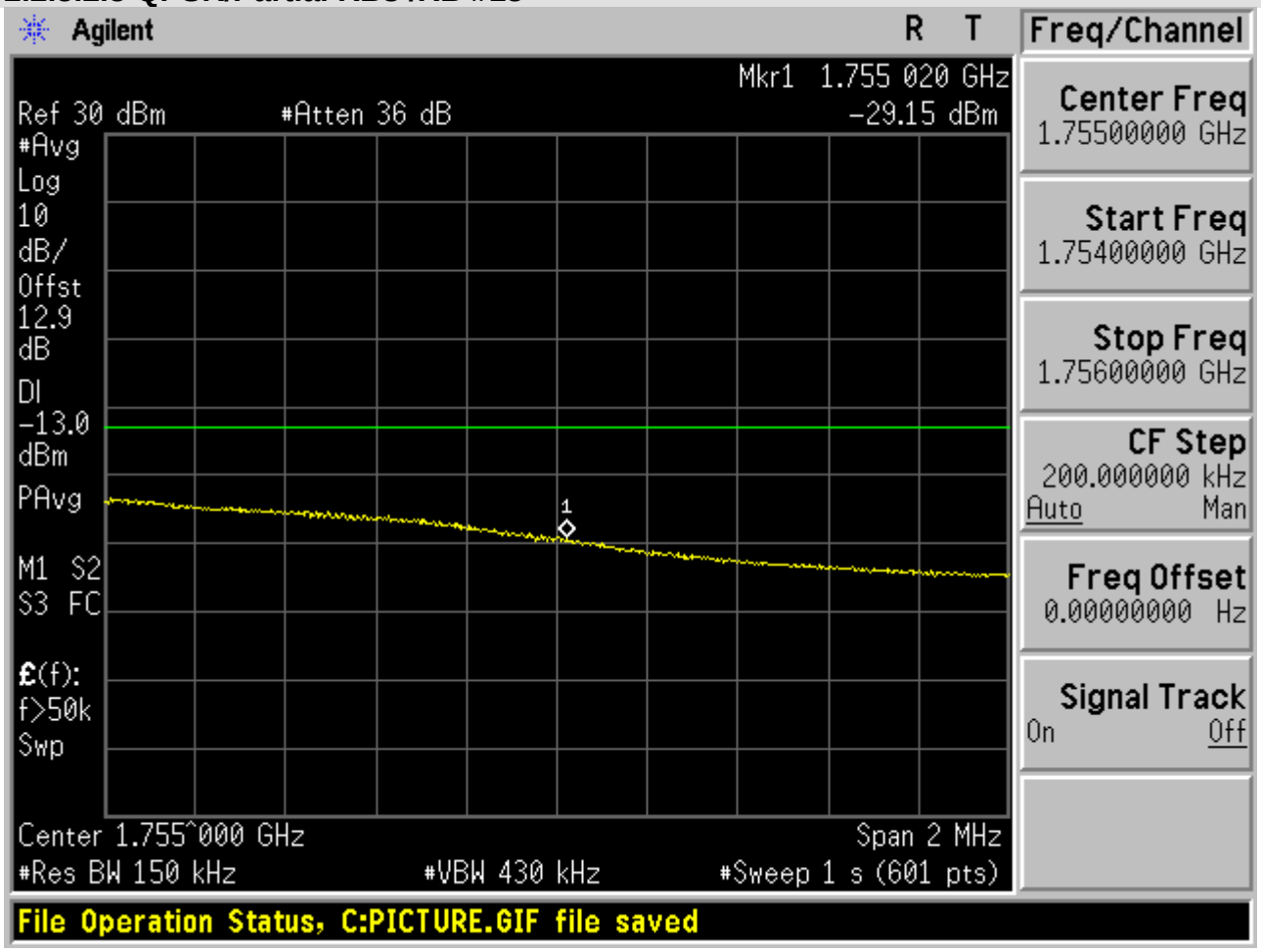
2.2.3.2.1 QPSK/1RB #0



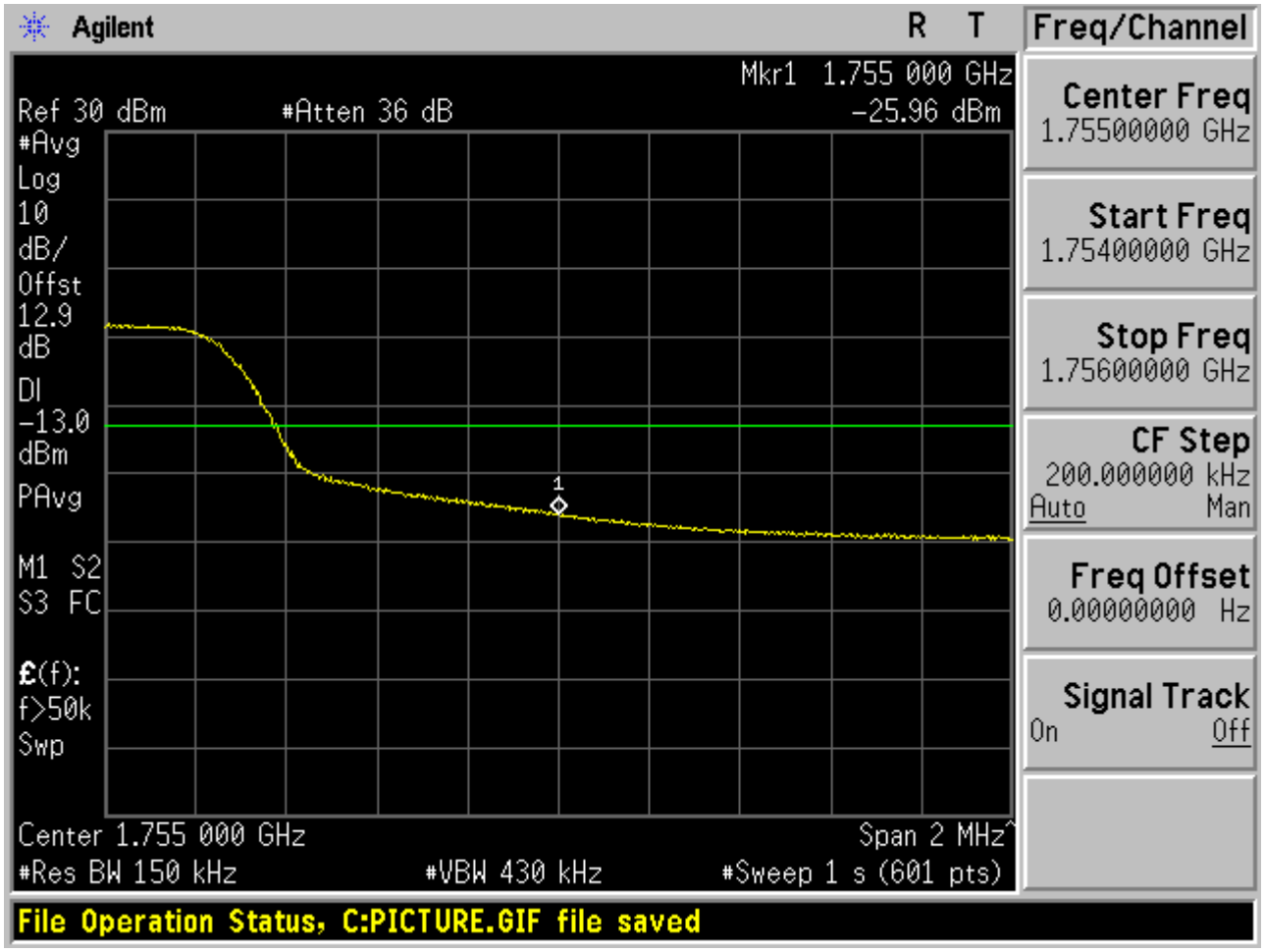
2.2.3.2.2 QPSK/1RB #max


Agilent
R T
Freq/Channel
Mkr1 1.755 020 GHz
Ref 30 dBm
#Atten 36 dB
-21.29 dBm
#Avg
Log
10
dB/
Offst
12.9
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
1
Center 1.755 000 GHz
Span 2 MHz
#Res BW 150 kHz
#VBW 430 kHz
#Sweep 1 s (601 pts)
Center Freq
1.75500000 GHz
Start Freq
1.75400000 GHz
Stop Freq
1.75600000 GHz
CF Step
200.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

2.2.3.2.3 QPSK/Partial RBs /RB #18



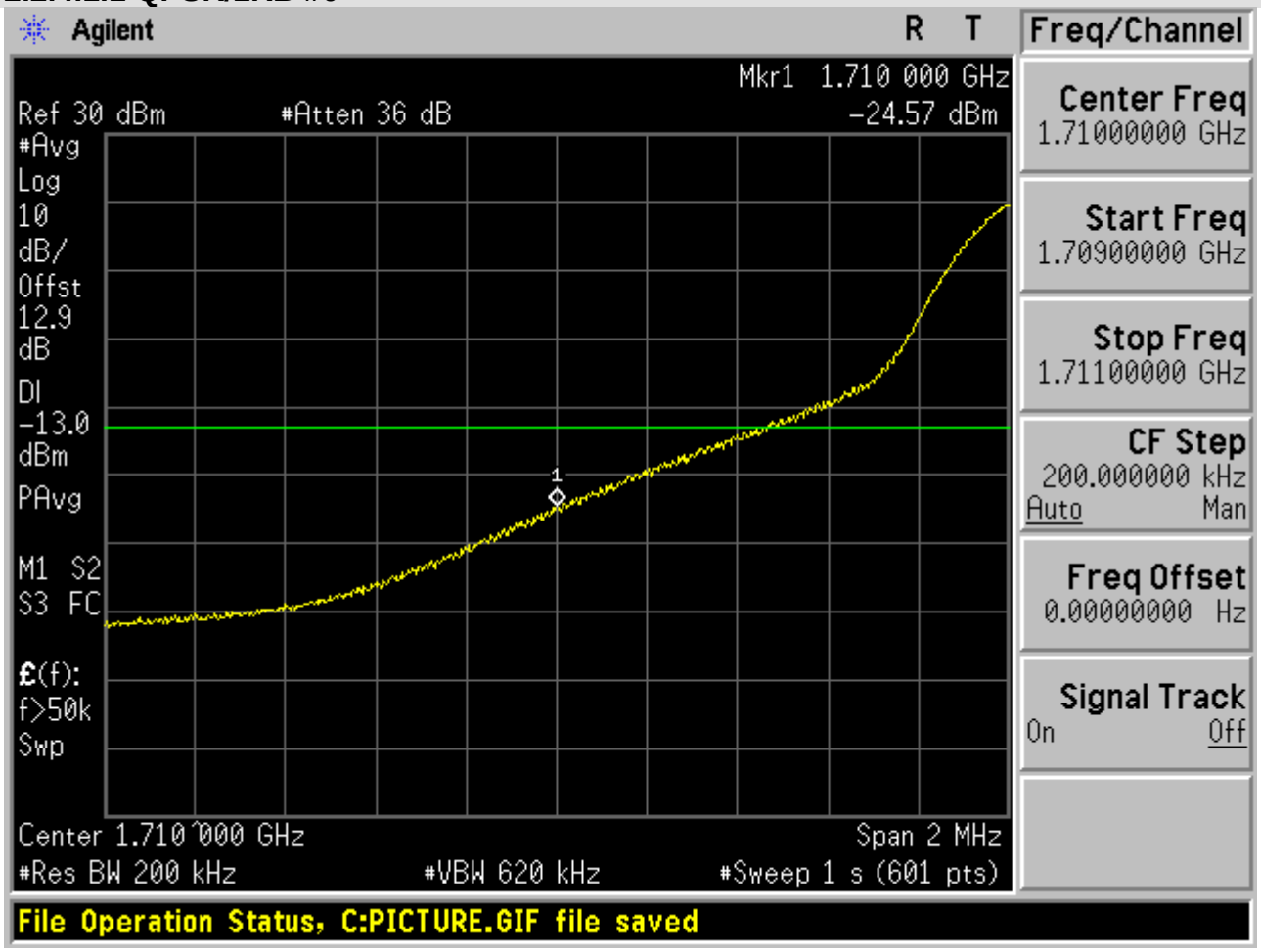
2.2.3.2.4 QPSK/full RBs



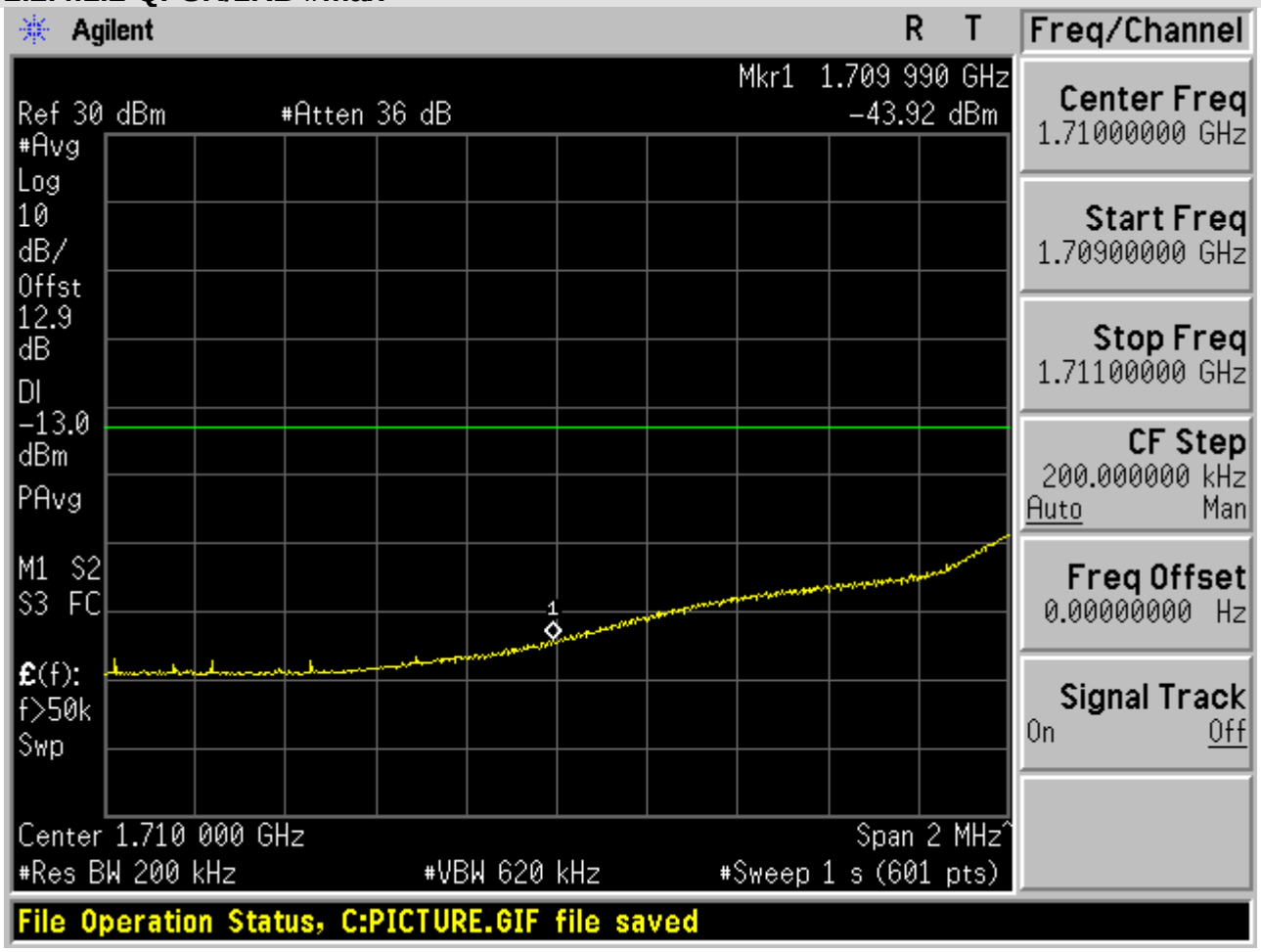
2.2.4 Channel Bandwidth = Highest (20 MHz)

2.2.4.1 Channel= B

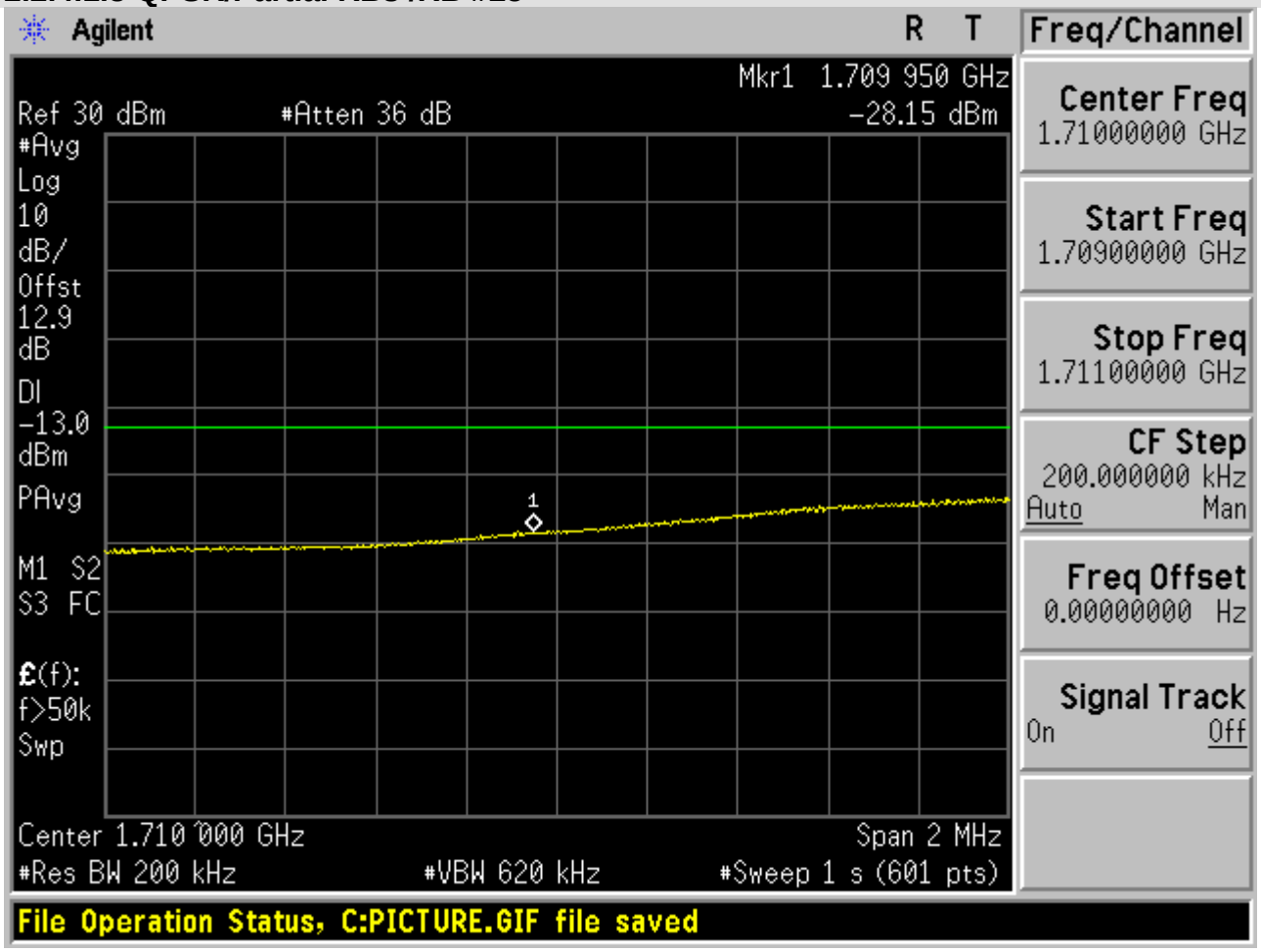
2.2.4.1.1 QPSK/1RB #0



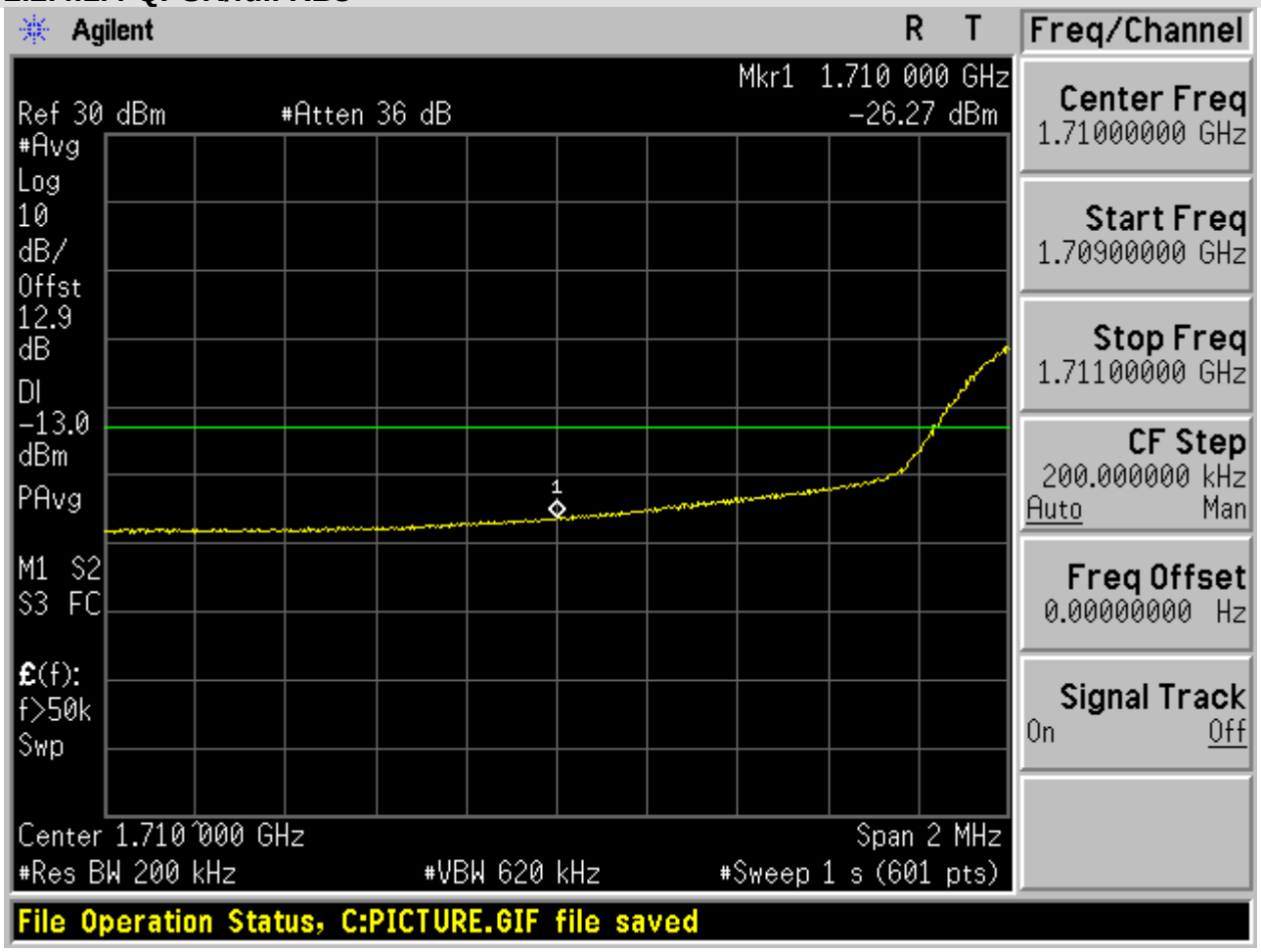
2.2.4.1.2 QPSK/1RB #max



2.2.4.1.3 QPSK/Partial RBs /RB #25

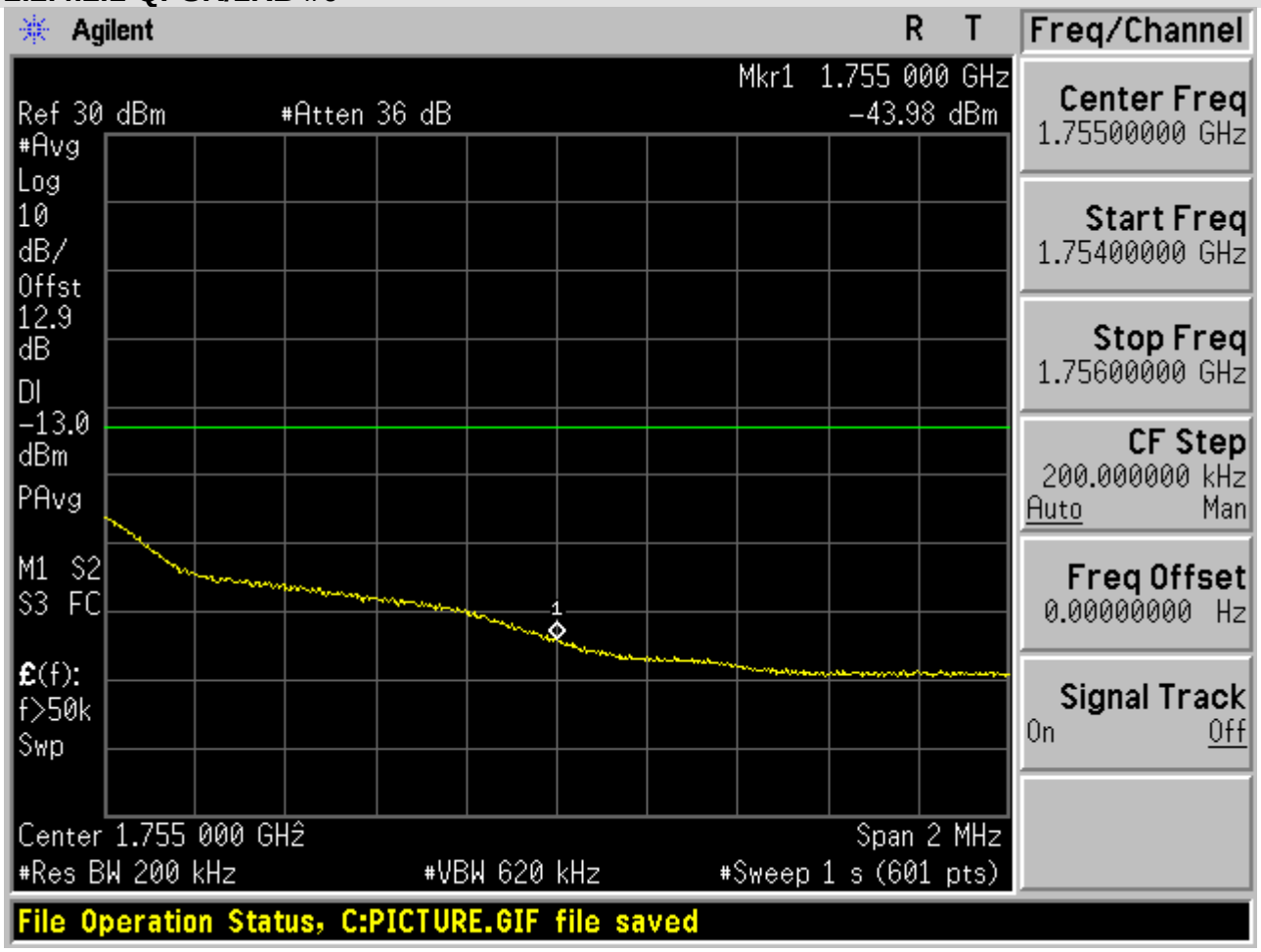


2.2.4.1.4 QPSK/full RBs



2.2.4.2 Channel= T

2.2.4.2.1 QPSK/1RB #0



2.2.4.2.2 QPSK/1RB #max