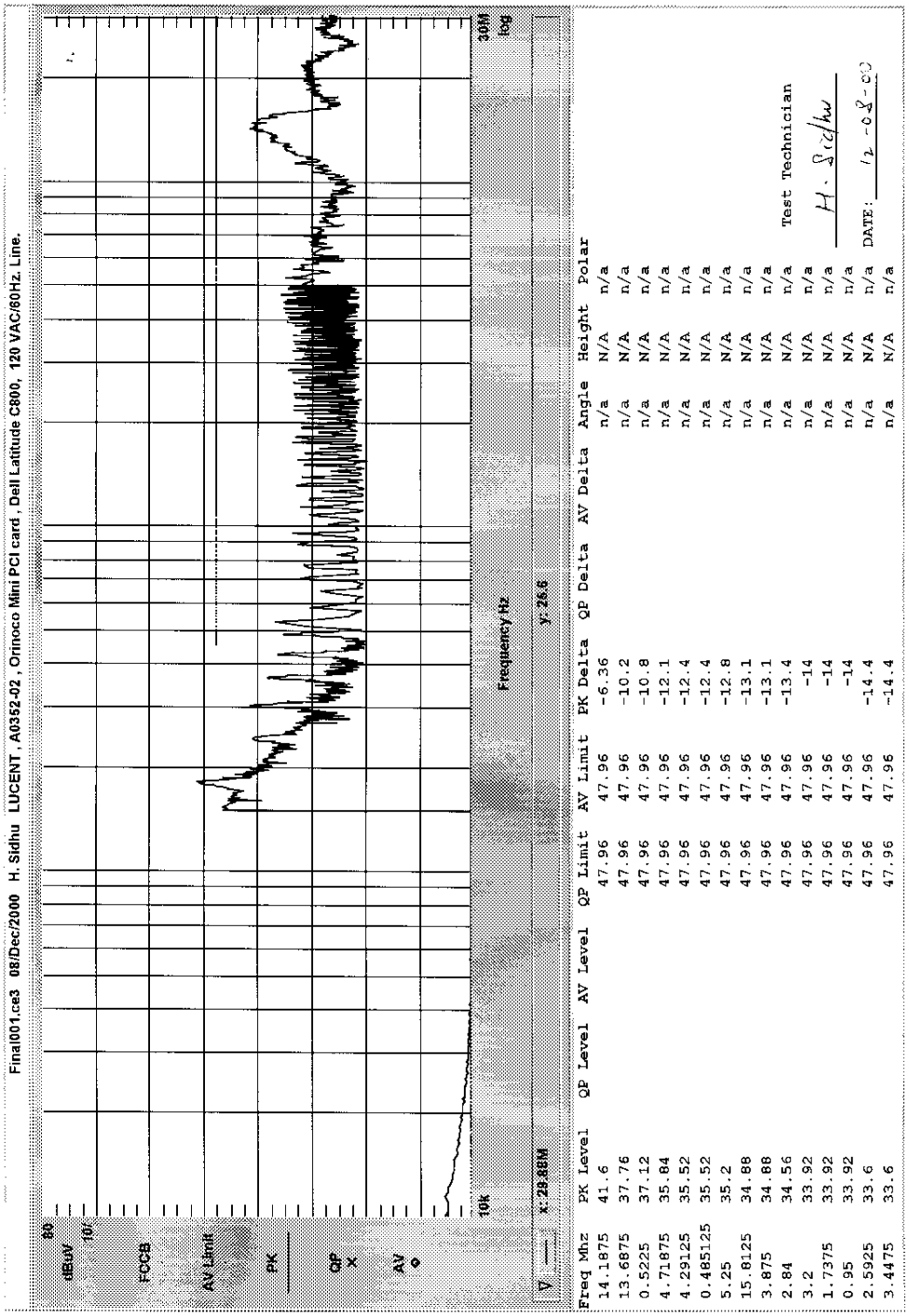
Freq Mhz	PK Level	QP Level	AV Level	QP Limit	AV Limit	PK Delta	QP Delta	AV Delta	Angle	Height	Polar
756.25	40.54			46		-5.46			14	103	V
753.75	38.25			46		-7.75			321	101	V
865	35.36			46		-10.6			14	252	V
66.75	26.38			40		-13.6			40	101	V
895	31.52			46		-14.5			216	251	V
72	24.66			40		-15.3			40	101	V
973.75	38.53			54		-15.5			216	403	H
433	30.2			46		-15.8			75	404	H
700	30.2			46		-15.8			181	101	V
63.425	23.18			40		-16.8			146	102	V
800	29.16			46		-16.8			75	102	V
79.35	23.16			40		-16.8			14	103	V
947.5	29.07			46		-16.9			40	251	V
142.5	26.53				43.5	-17			181	101	V
631.25	28.91			46		-17.1			14	103	V

Test Technician

H. Sidhu

DATE: 12-08-00

Radiated Emissions Data Sheets
Channel 1 / (30 MHz - 1 GHz)
Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X



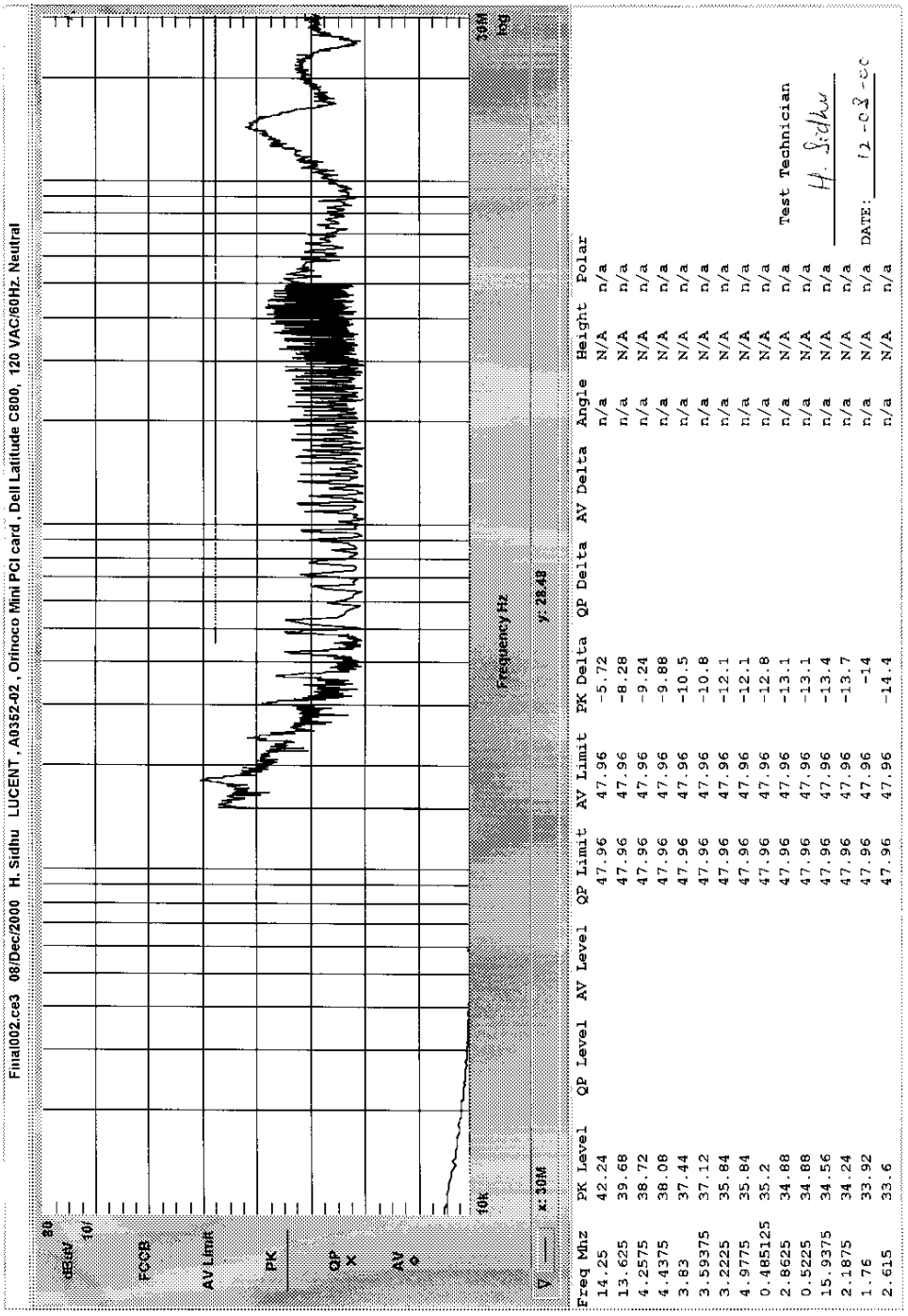
Freq Mhz	PK Level	QP Level	AV Level	QP Limit	AV Limit	PK Delta	QP Delta	AV Delta	Angle	Height	Polar
14.1875	41.6			47.96	47.96	-6.36			n/a	N/A	n/a
13.6875	37.76			47.96	47.96	-10.2			n/a	N/A	n/a
0.5225	37.12			47.96	47.96	-10.8			n/a	N/A	n/a
4.71875	35.84			47.96	47.96	-12.1			n/a	N/A	n/a
4.29125	35.52			47.96	47.96	-12.4			n/a	N/A	n/a
0.485125	35.52			47.96	47.96	-12.4			n/a	N/A	n/a
5.25	35.2			47.96	47.96	-12.8			n/a	N/A	n/a
15.8125	34.88			47.96	47.96	-13.1			n/a	N/A	n/a
3.875	34.88			47.96	47.96	-13.1			n/a	N/A	n/a
2.84	34.56			47.96	47.96	-13.4			n/a	N/A	n/a
3.2	33.92			47.96	47.96	-14			n/a	N/A	n/a
1.7375	33.92			47.96	47.96	-14			n/a	N/A	n/a
0.95	33.92			47.96	47.96	-14			n/a	N/A	n/a
2.5925	33.6			47.96	47.96	-14.4			n/a	N/A	n/a
3.4475	33.6			47.96	47.96	-14.4			n/a	N/A	n/a

Test Technician

H. Sidhu

DATE: 12-08-00

Conducted Emissions Data Sheets
Channel 1 / (450 kHz - 30 Mhz), Line
Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X



Conducted Emissions Data Sheets
Channel 1 / (450 kHz - 30 Mhz), Neutral

Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X

Emissions Results (1 – 24) GHz, FCC 15.247 and 15.205, Horizontal Polarization, CH1 ON

Freq (MHz)	Receiver Ampl (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/m)	Corrected Ampl (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1096	51.3 (PK)	45.8	24.7	30.2	53.98	-23.78
1297	45.6 (PK)	45.7	25.2	25.1	66.70	-41.60
1397	46.2 (PK)	45.8	25.6	26.0	53.98	-27.98
1408	51.4 (PK)	44.8	25.5	32.1	53.98	-21.88
1497	58.6 (PK)	46.0	26.6	39.2	53.98	-14.78
1807	47.4 (PK)	45.6	27.1	28.9	66.70	-37.80
2410	**102.7 (PK)**	**44.6**	**28.6**	**86.7**	**137.00**	**-50.30**
4825	58.6 (AV)	45.6	33.9	46.9	53.98	-7.08
7215	55.4 (PK)	45.3	37.5	47.6	66.70	-19.10

Emissions Results (1 – 24) GHz, FCC 15.247 and 15.205, Vertical Polarization,CH1 ON

Freq (MHz)	Receiver Ampl (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/m)	Corrected Ampl (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1097	49.2 (PK)	46.0	26.0	29.2	53.98	-24.78
1497	48.8 (PK)	45.8	24.7	27.7	53.98	-26.28
1806	56.7 (PK)	45.6	27.1	38.2	53.98	-15.78
2409	**104.9 (PK)**	**44.6**	**28.6**	**88.9**	**137.00**	**-48.10**
4824	61.4 (AV)	45.6	33.9	49.7	53.98	-4.28
7220	67.7 (PK)	45.3	37.5	59.9	66.7	-6.80
9620	63.7 (PK)	45.3	38.4	56.8	66.7	-9.90

Emissions Results (1 – 24) GHz, FCC 15.247 and 15.205, Horizontal Polarization,CH6 ON

Freq (MHz)	Receiver Ampl (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/m)	Corrected Ampl (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1408	59.0 (PK)	46.0	26.0	39.0	53.98	-14.98
1497	48.0 (PK)	44.8	25.5	28.7	53.98	-25.28
2434	**101.0 (PK)**	**44.6**	**28.7**	**85.1**	**137.00**	**-51.9**
4874	61.4 (AV)	45.6	34.0	49.8	53.98	-4.18
7290	54.6 (PK)	45.3	37.5	46.8	53.98	-7.18
9730	50.8 (PK)	45.3	38.4	43.9	65.10	-21.2

Emissions Results (1 – 24) GHz, FCC 15.247 and 15.205, Vertical Polarization, CH6 ON

Freq (MHz)	Receiver Ampl (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/m)	Corrected Ampl (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1000	50.6 (PK)	46.0	24.4	29.0	53.98	-24.98
1198	46.5 (PK)	46.0	24.9	25.4	53.98	-28.58
1843	50.8 (PK)	44.7	27.3	33.4	65.10	-31.70
2434	**104.6 (PK)**	**44.6**	**28.7**	**88.7**	**137.00**	**-48.3**
4874	58.8 (AV)	45.6	34.0	47.2	53.98	-6.78
7290	57.7 (AV)	45.3	37.5	49.9	53.98	-4.08
9720	63.2 (PK)	45.3	38.4	56.3	65.10	-8.80

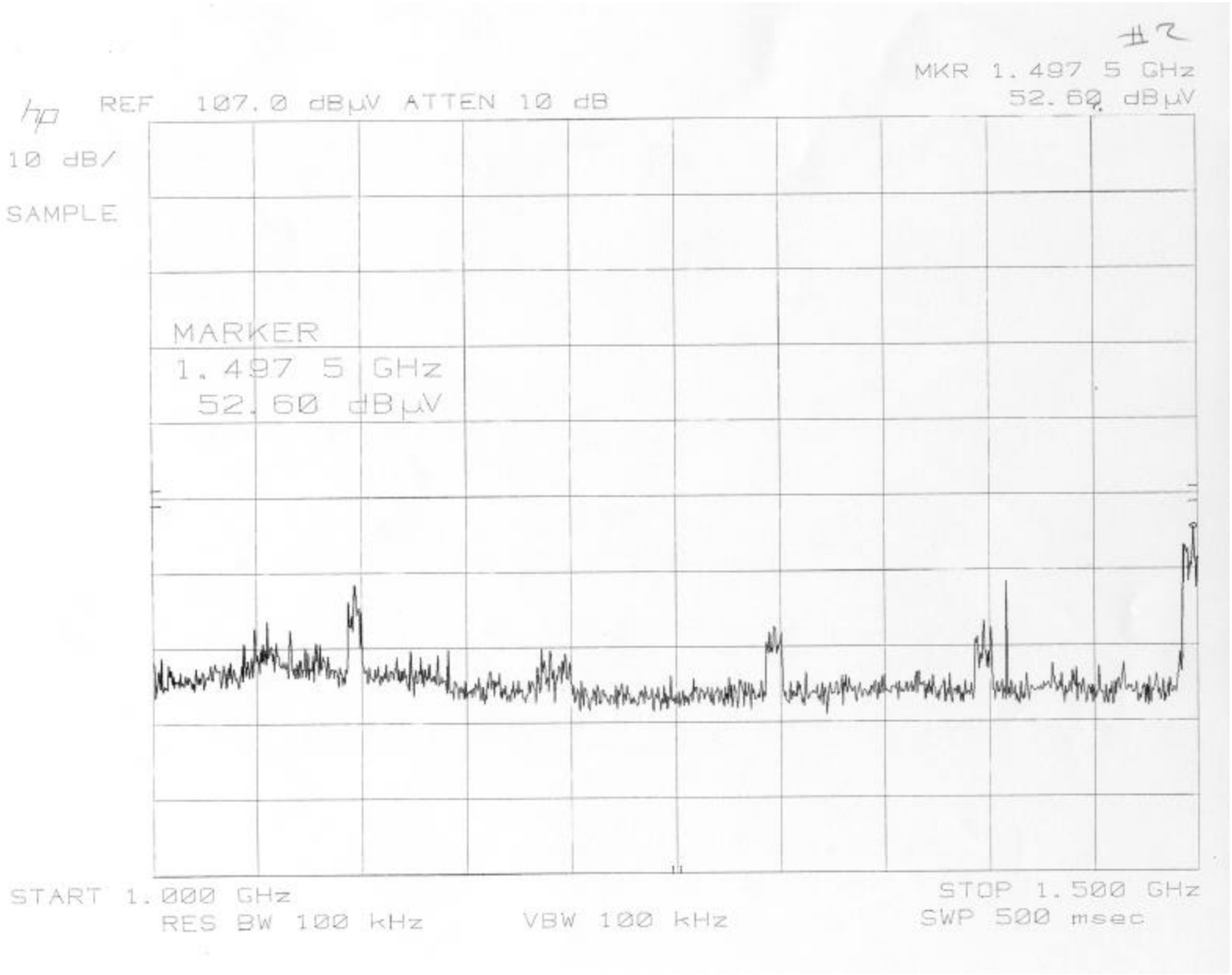
Emissions Results (1 – 24) GHz, FCC 15.247 and 15.205, Horizontal Polarization,CH11 ON

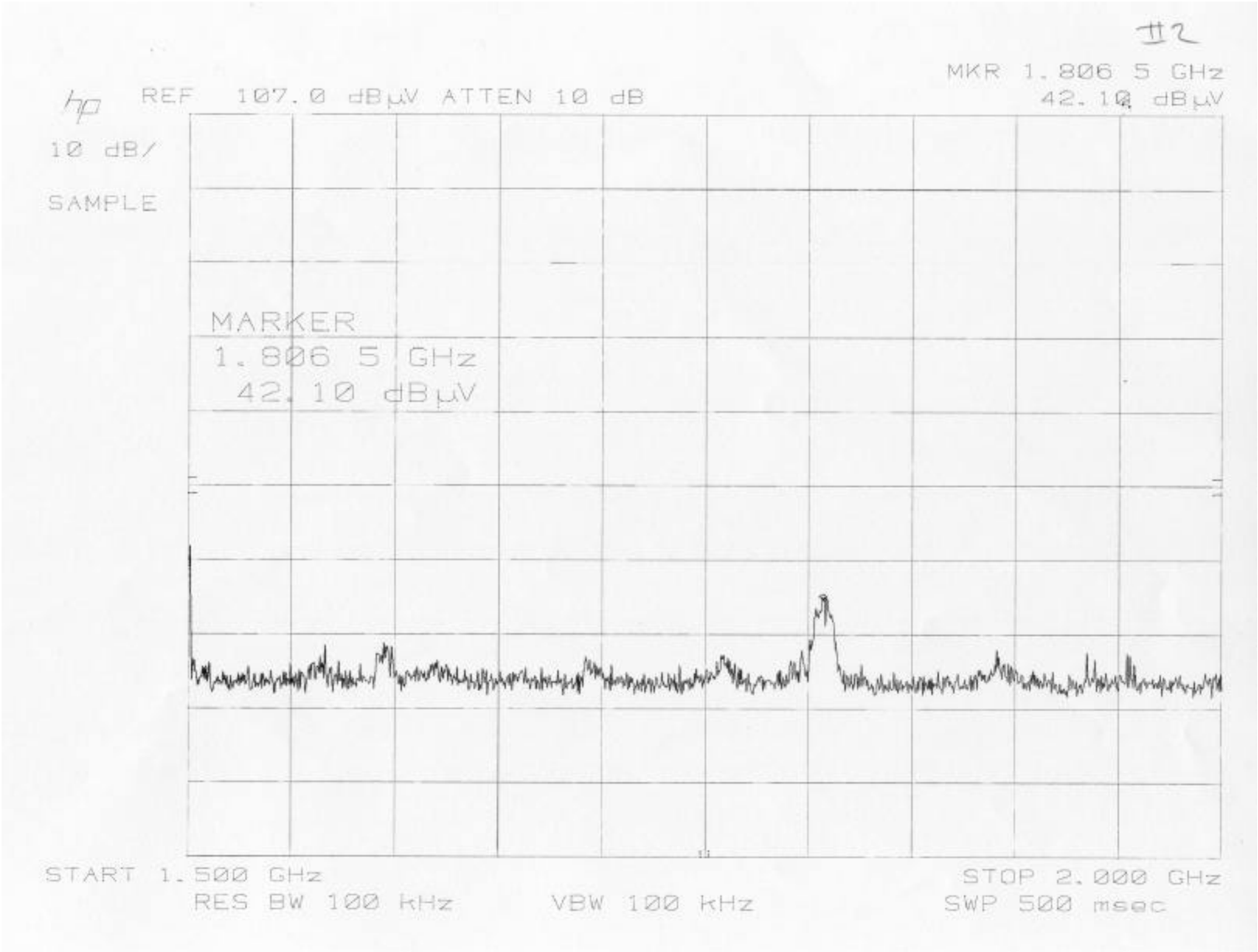
Freq (MHz)	Receiver Ampl (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/m)	Corrected Ampl (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1495	56.5 (PK)	46.0	25.6	36.1	53.98	-17.88
1725	46.7 (PK)	45.5	26.7	27.9	64.50	-36.60
1882	45.4 (PK)	45.3	27.4	27.5	64.50	-37.00
2462	**106.0 (PK)**	**44.7**	**28.7**	**90.0**	**137.00**	**-47.00**
3427	36.8 (PK)	44.6	31.9	24.1	64.50	-40.40
4924	62.1 (AV)	45.7	34.2	50.6	53.98	-3.38
7365	57.0 (PK)	45.3	37.5	49.2	53.98	-4.78
9820	53.1 (PK)	45.3	38.4	46.2	64.50	-18.30

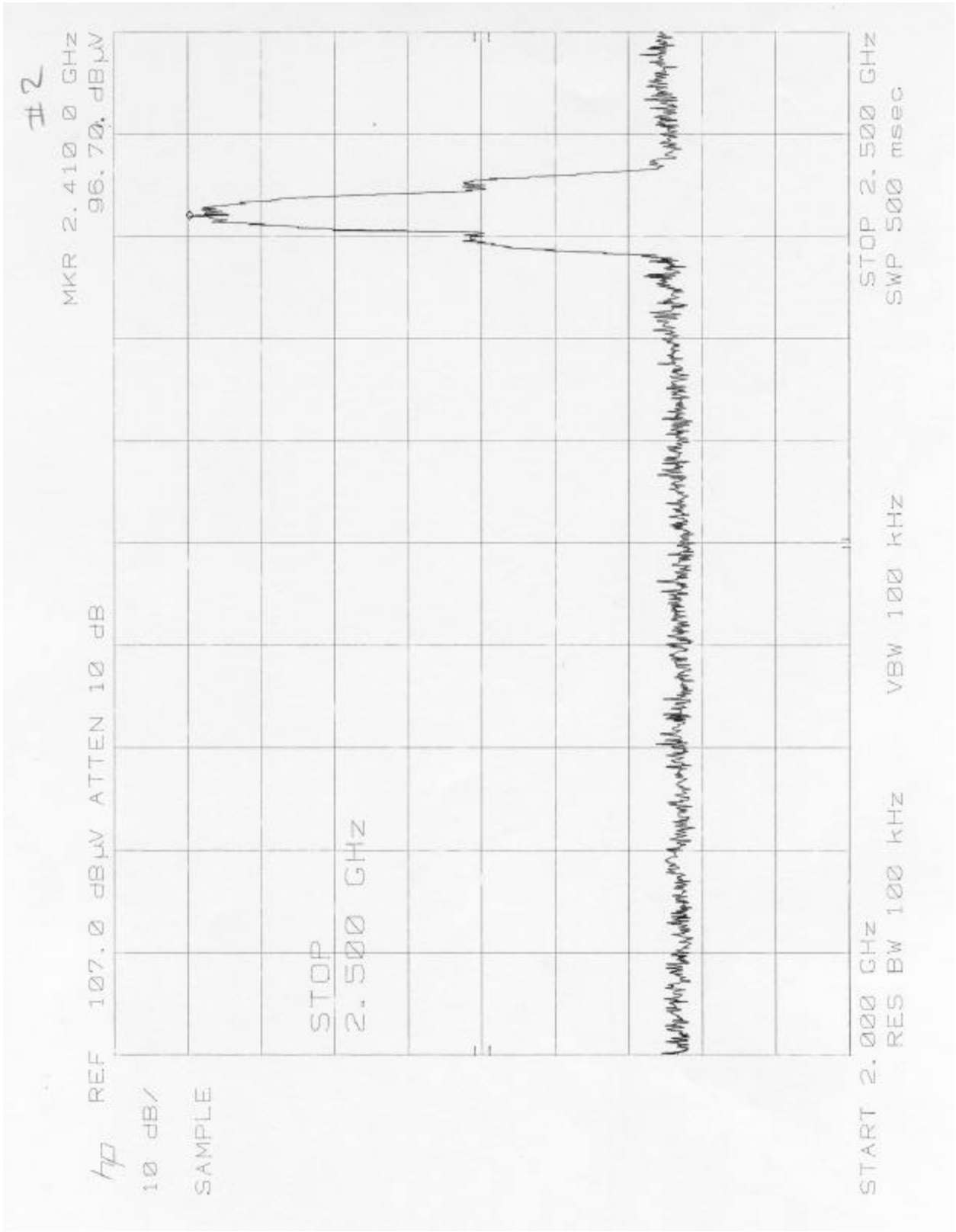
Emissions Results (1 – 24) GHz, FCC 15.247 and 15.205, Vertical Polarization,CH11 ON

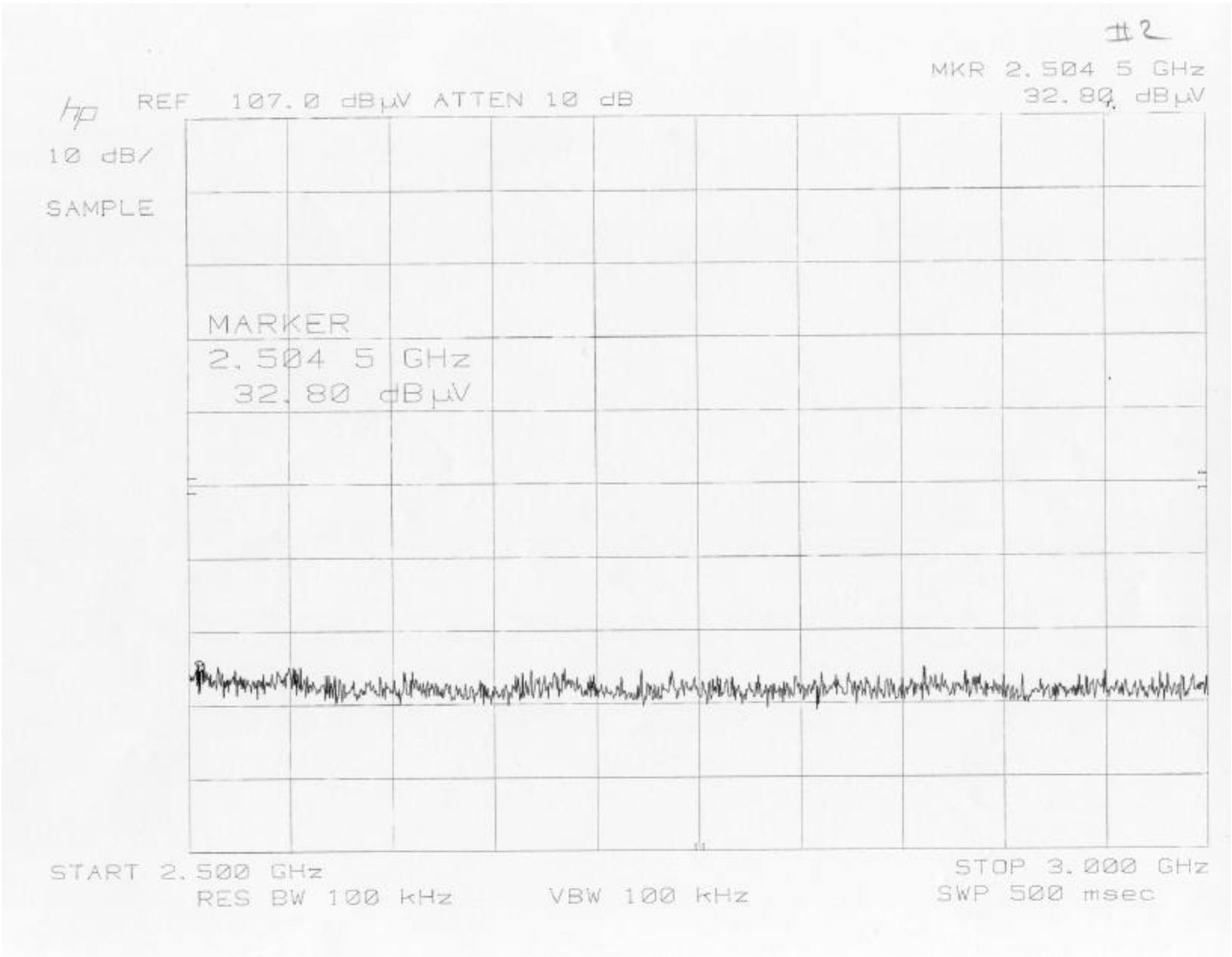
Freq (MHz)	Receiver Ampl (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/m)	Corrected Ampl (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1097	53.2	46.0	24.9	32.1	53.98	-21.88
1497	50.3	44.8	25.6	31.1	53.98	-22.88
1797	43.2	45.6	27.1	24.7	64.50	-39.80
2464	**100.5**	**44.7**	**28.7**	**84.5**	**137.00**	**-52.50**
2874	43.4	44.8	30.2	28.8	53.98	-25.18
4924	57.6	45.7	34.2	46.1	53.98	-7.88
7365	52.4	45.3	37.5	44.6	53.98	-9.38

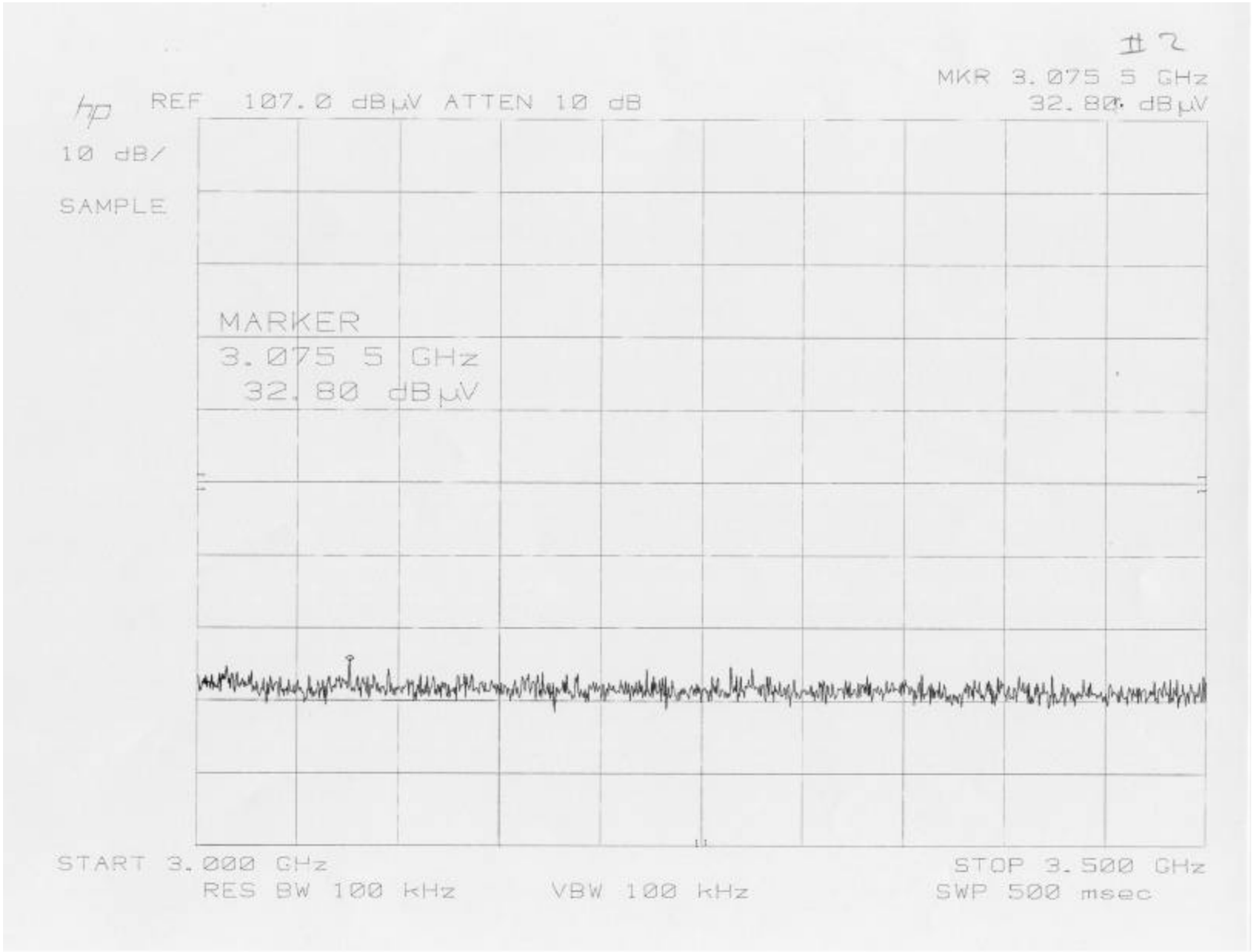
Radiated Emissions Plots
(1 - 24) GHz - Horizontal Polarization
Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X
Channel 1

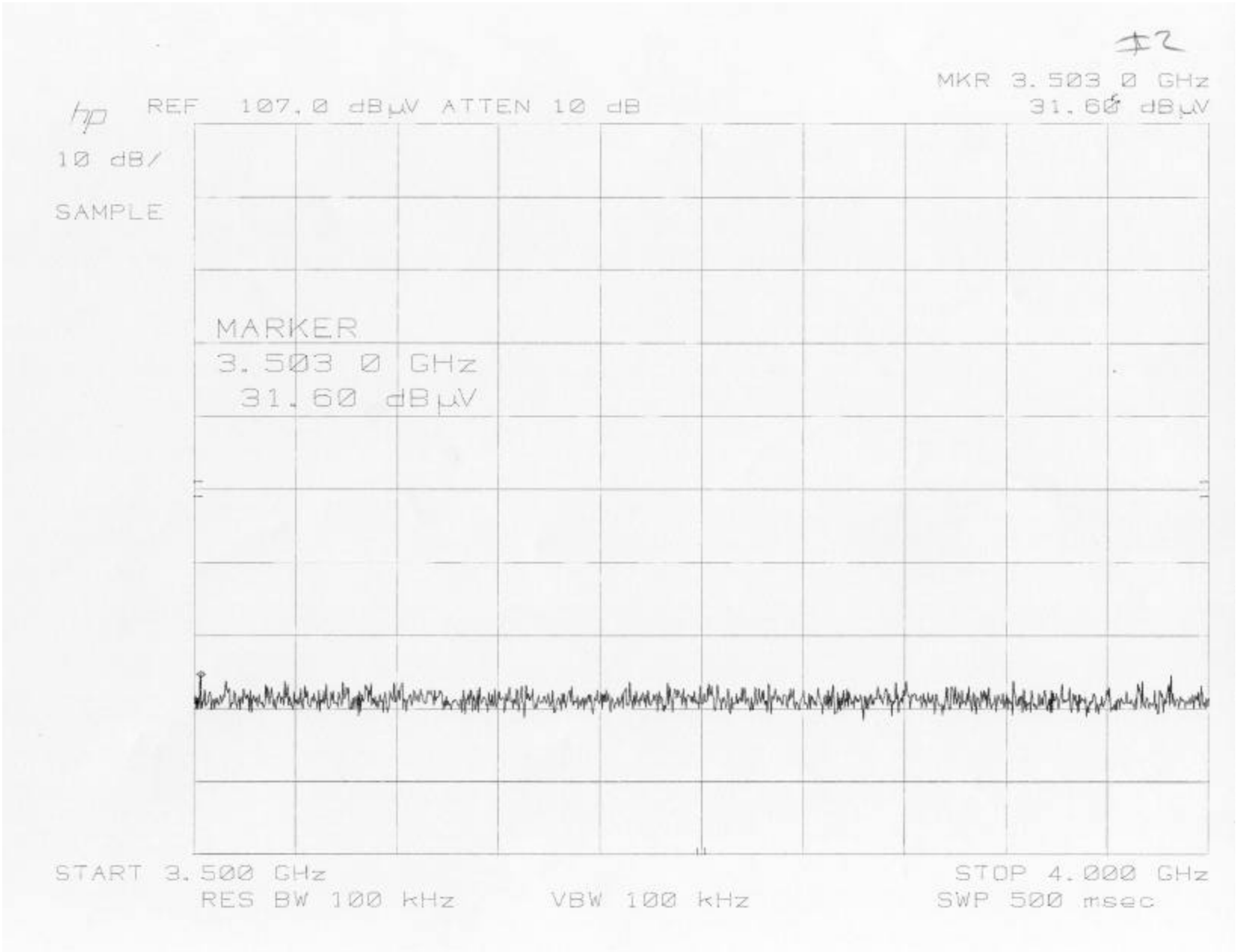

#2
MKR 1.497 5 GHz
52.60 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
1.497 5 GHz
52.60 dBµV
START 1.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 1.500 GHz
SWP 500 msec

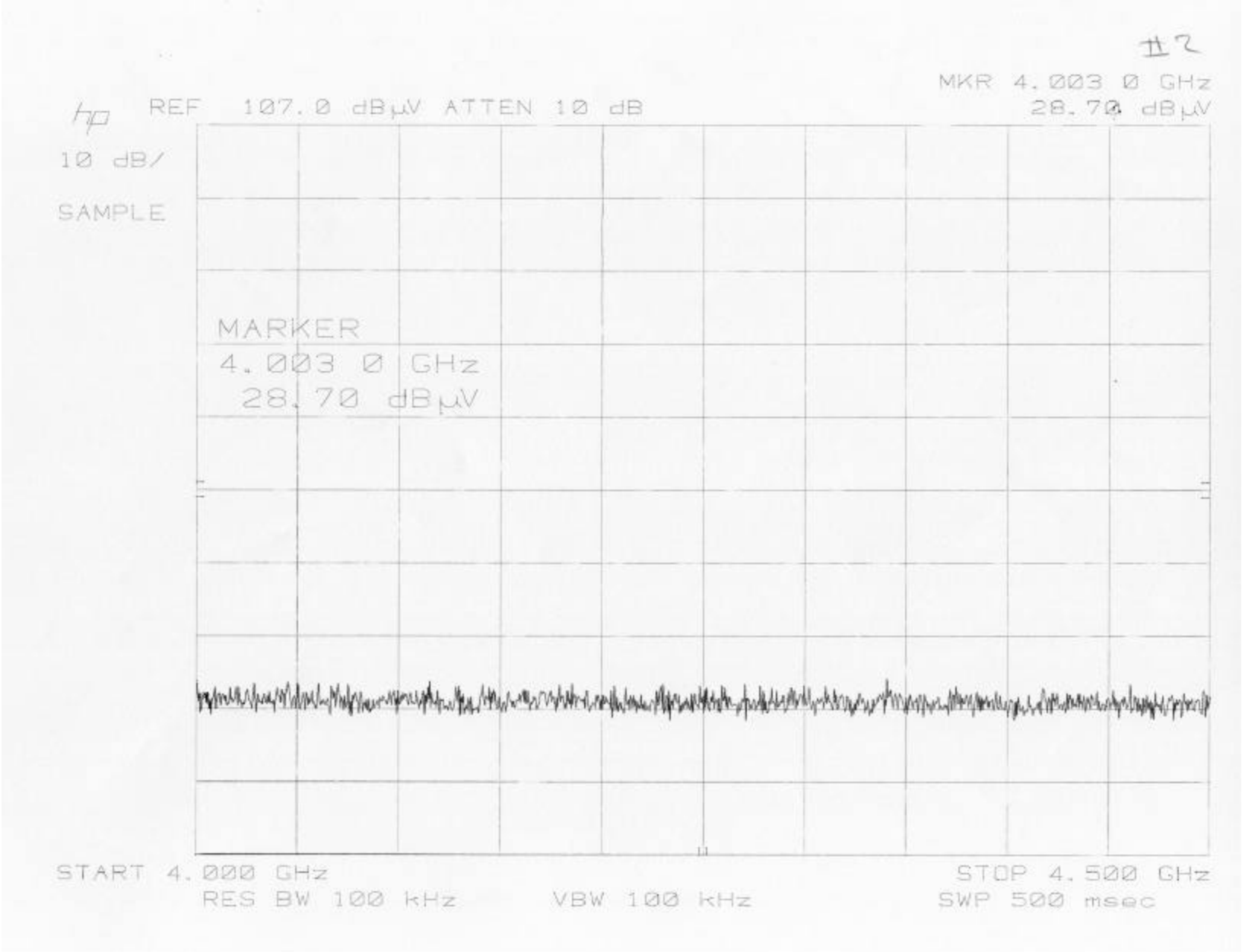

#2
MKR 1.806 5 GHz
42.10 dBµV
hp REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
1.806 5 GHz
42.10 dBµV
START 1.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.000 GHz
SWP 500 msec

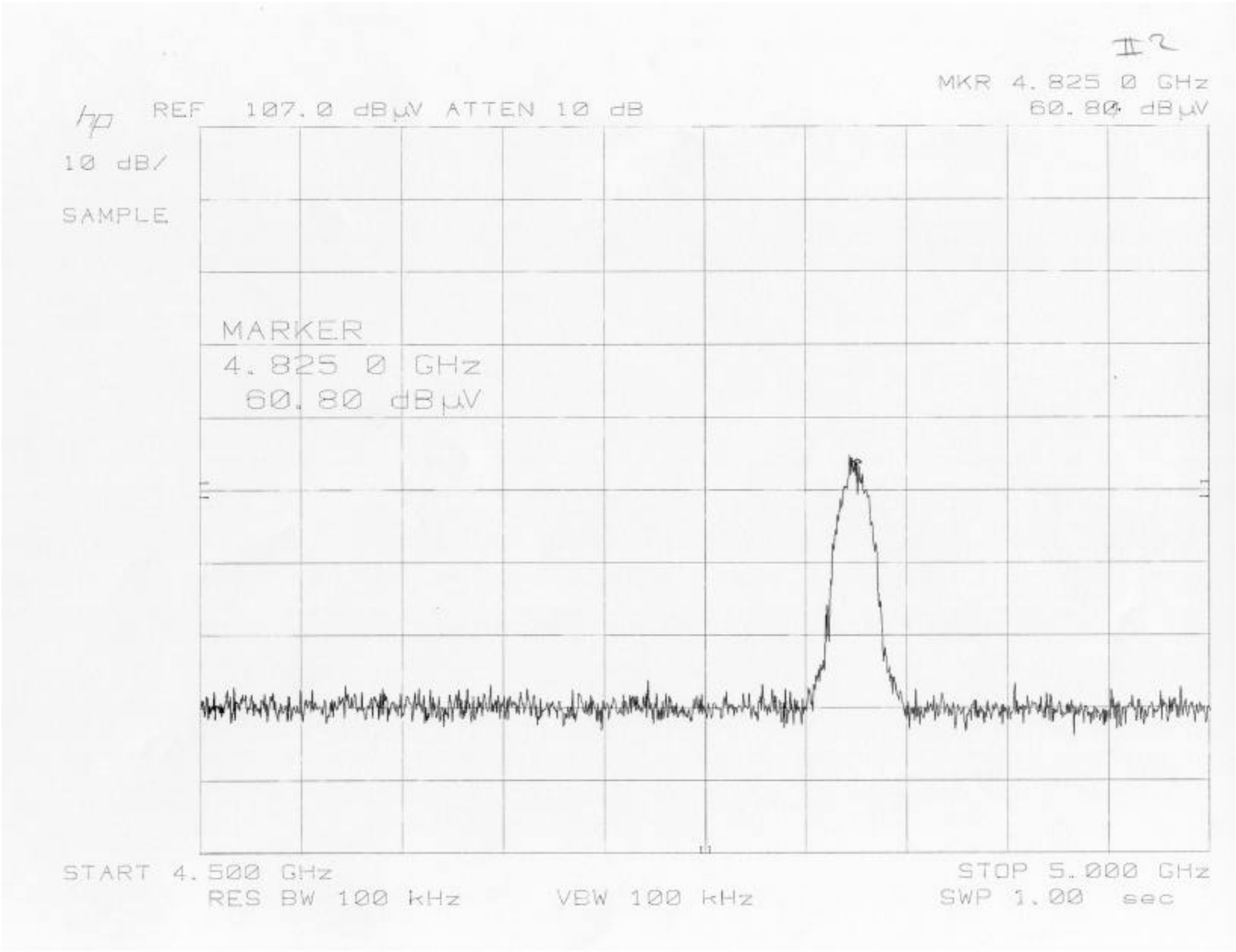

#2
MKR 2.410 0 GHz
96.70 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
STOP
2.500 GHz
START 2.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.500 GHz
SWP 500 msec

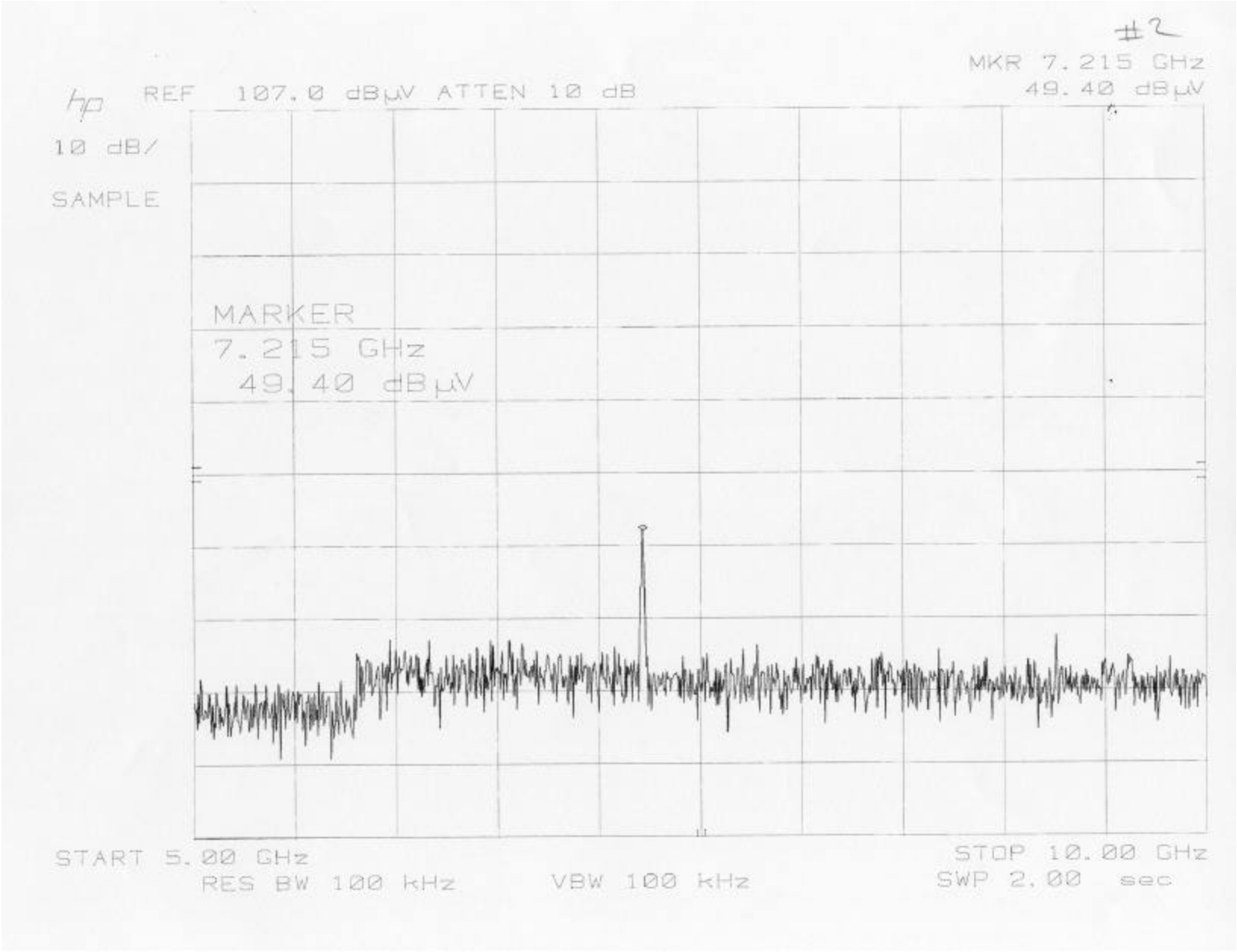

#2
MKR 2.504 5 GHz
32.80 dBμV
REF 107.0 dBμV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
2.504 5 GHz
32.80 dBμV
START 2.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.000 GHz
SWP 500 msec

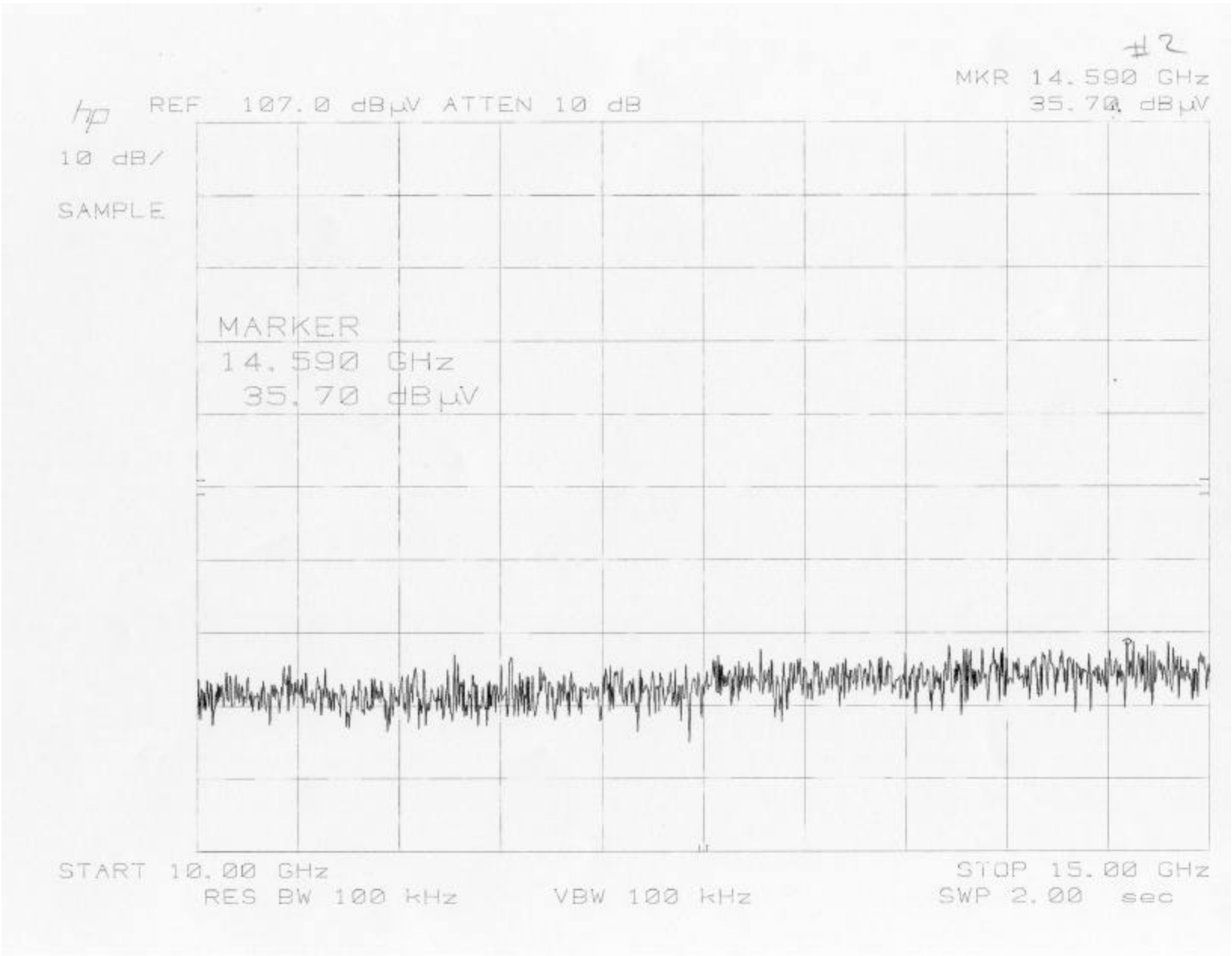

#2
MKR 3.075 5 GHz
32.80 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
3.075 5 GHz
32.80 dBµV
START 3.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.500 GHz
SWP 500 msec

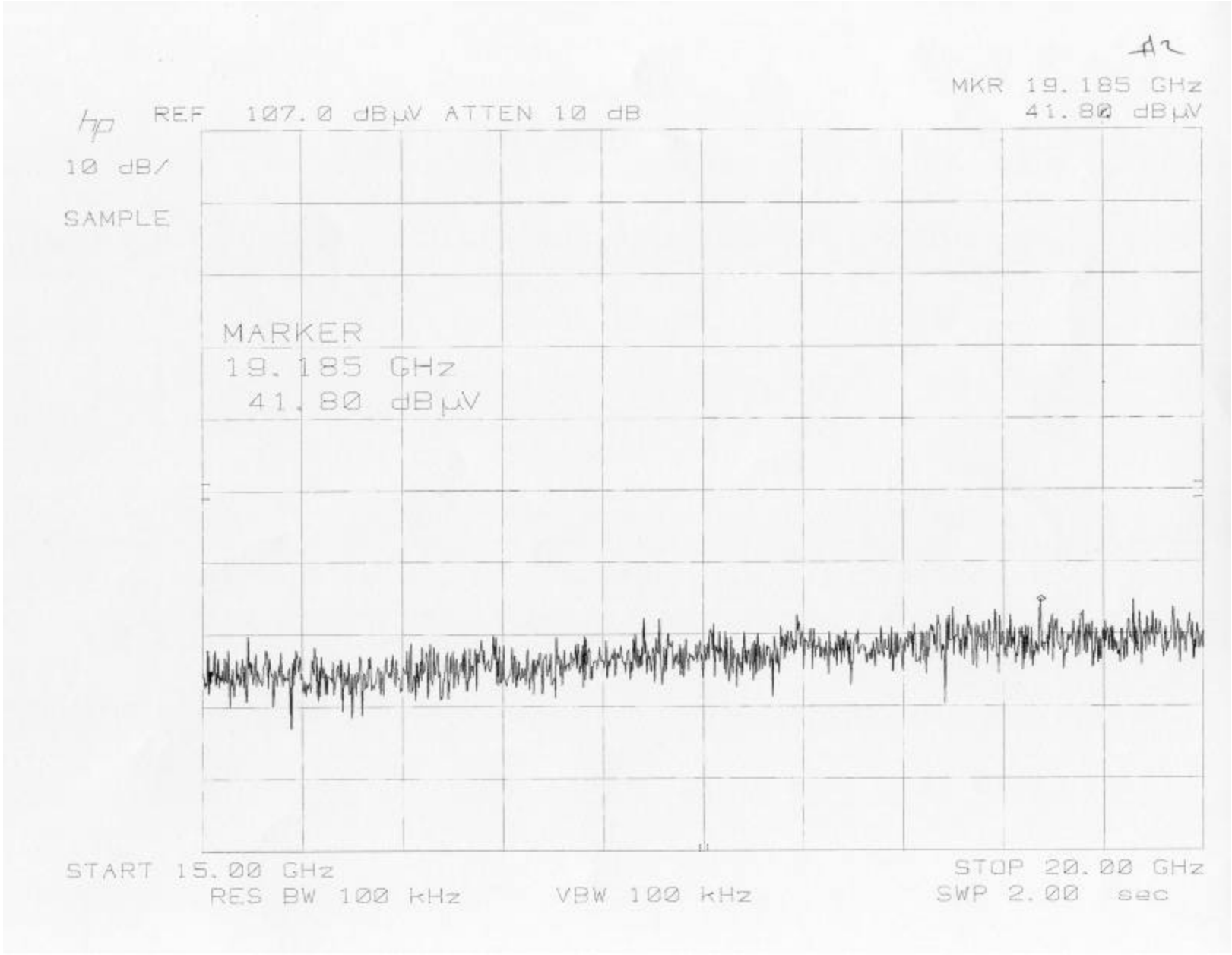

#2
MKR 3.503 0 GHz
31.60 dBµV
hp REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
3.503 0 GHz
31.60 dBµV
START 3.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 4.000 GHz
SWP 500 msec

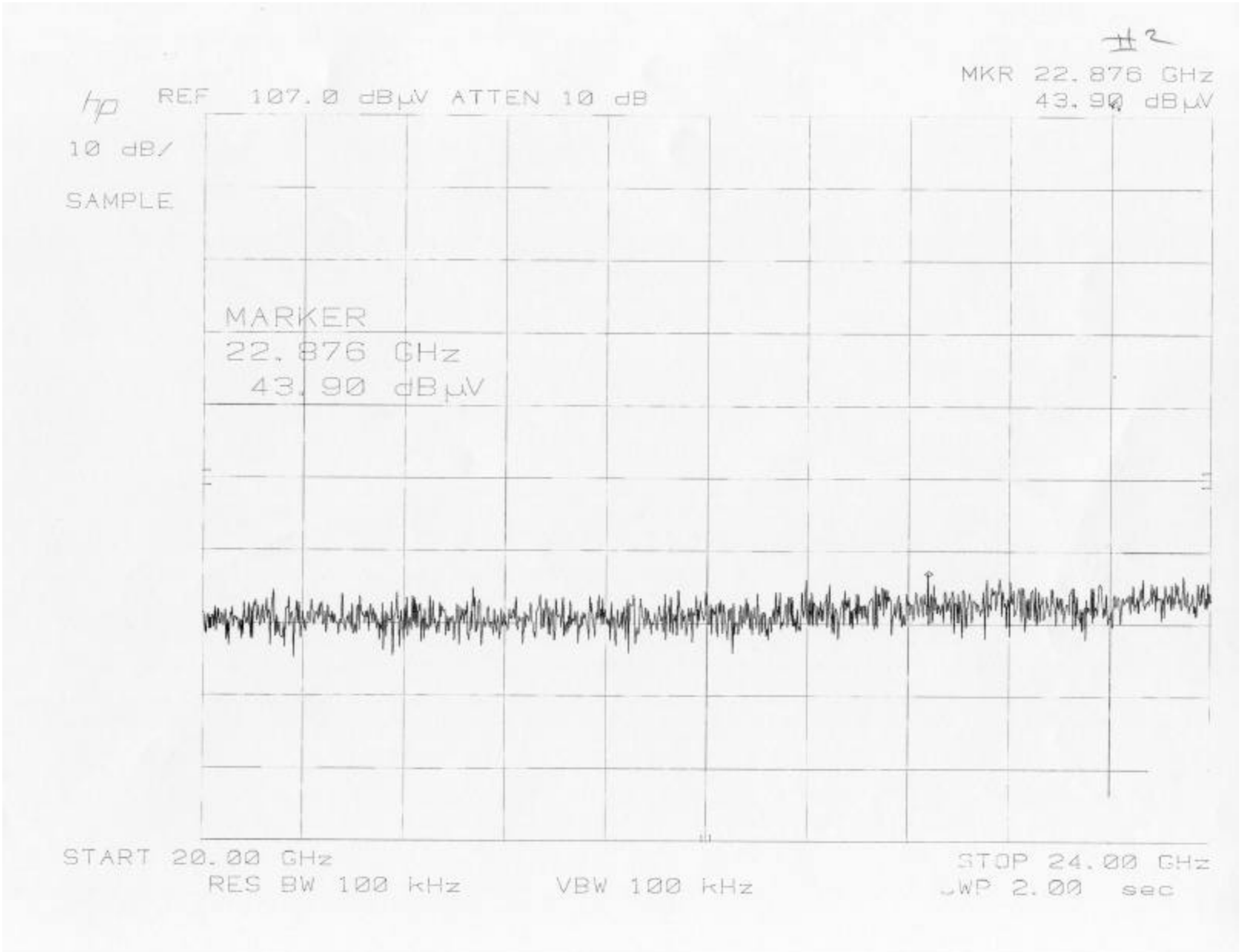

#2
MKR 4.003 0 GHz
28.70 dBμV
REF 107.0 dBμV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
4.003 0 GHz
28.70 dBμV
START 4.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 4.500 GHz
SWP 500 msec


H2
MKR 4.825 0 GHz
60.80 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
4.825 0 GHz
60.80 dBµV
START 4.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 5.000 GHz
SWP 1.00 sec

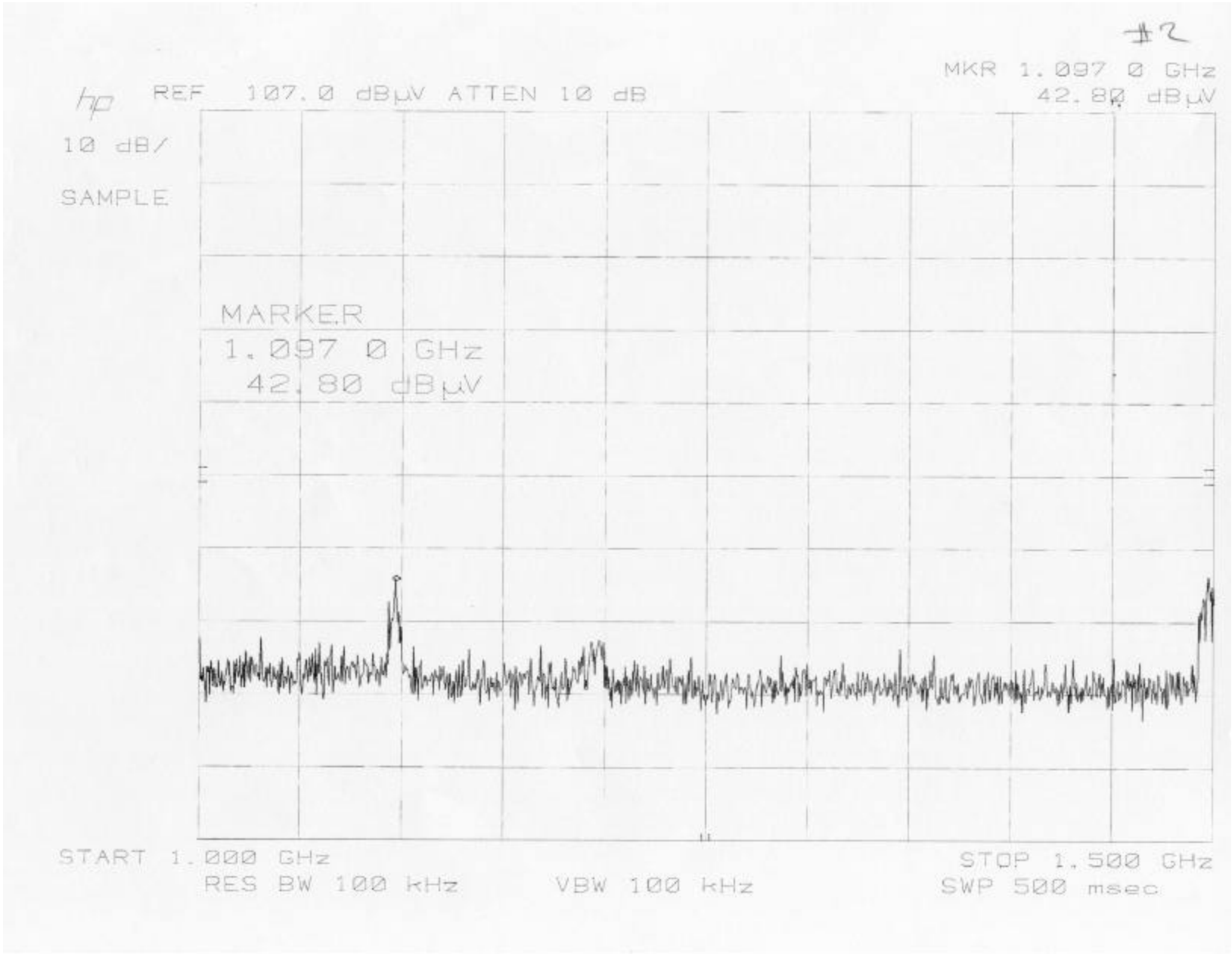

#2
MKR 7.215 GHz
49.40 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
7.215 GHz
49.40 dBµV
START 5.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 10.00 GHz
SWP 2.00 sec

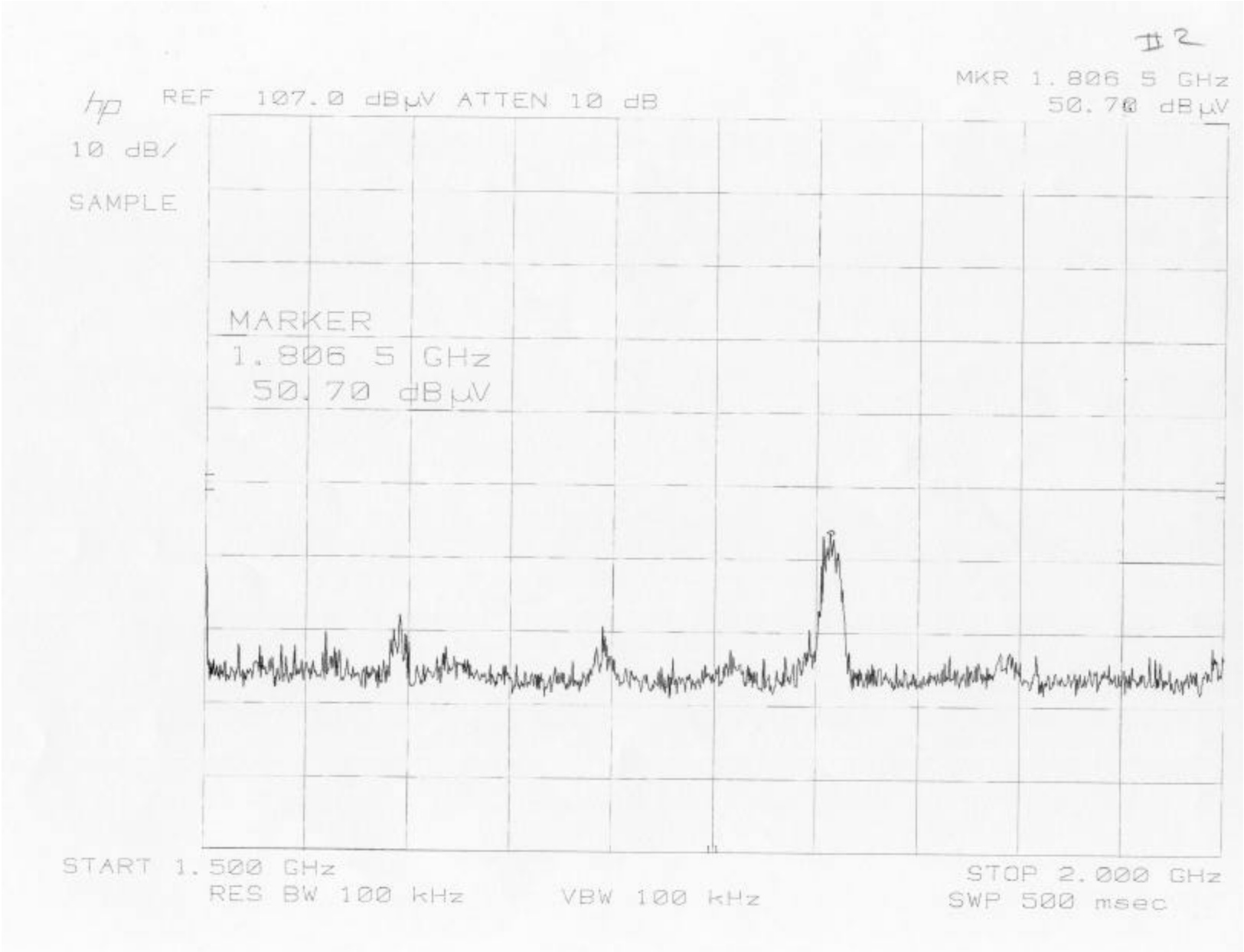

#2
MKR 14.590 GHz
35.70 dBµV
hp REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
14.590 GHz
35.70 dBµV
START 10.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 15.00 GHz
SWP 2.00 sec

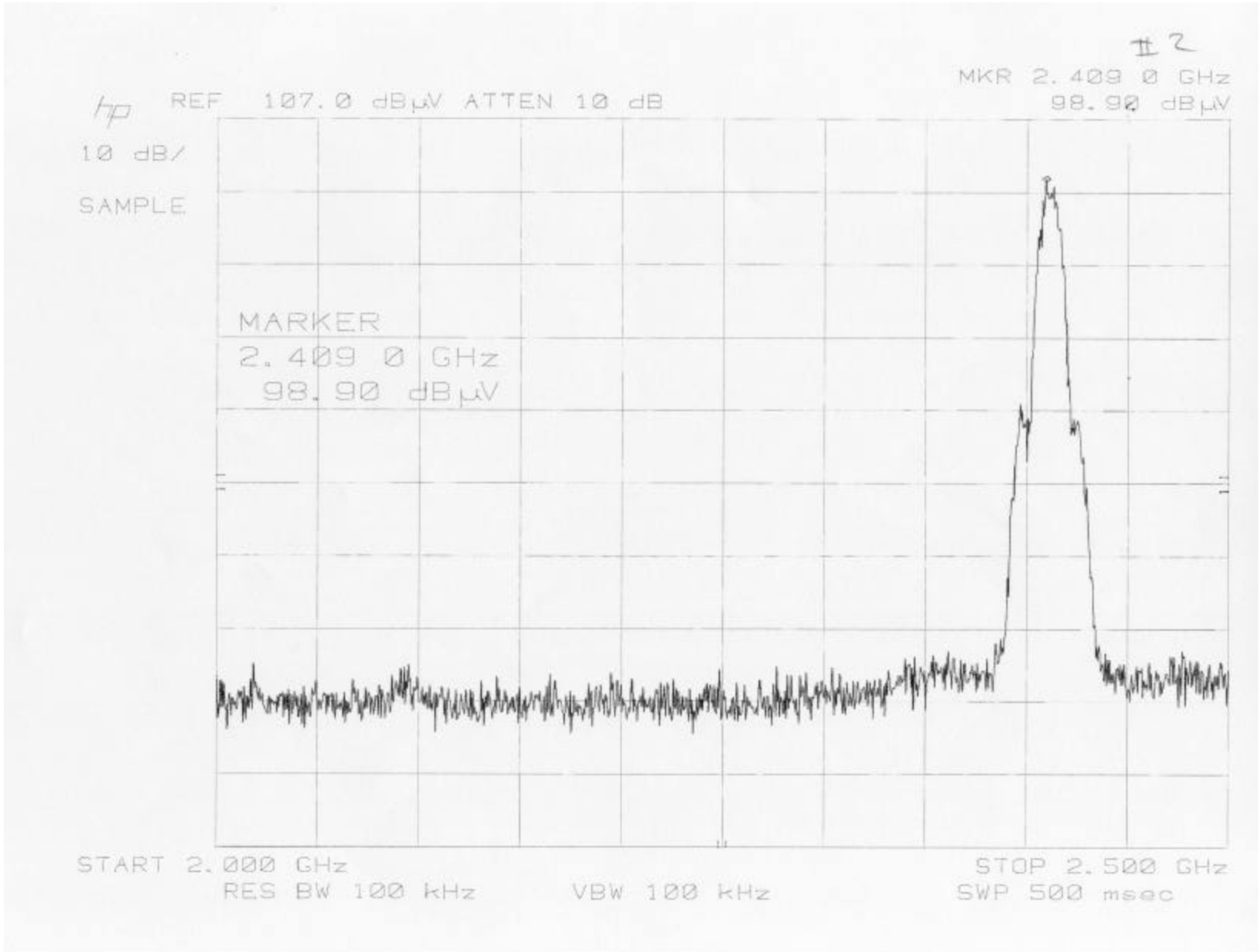

MKR 19.185 GHz
41.80 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
19.185 GHz
41.80 dBµV
START 15.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 20.00 GHz
SWP 2.00 sec

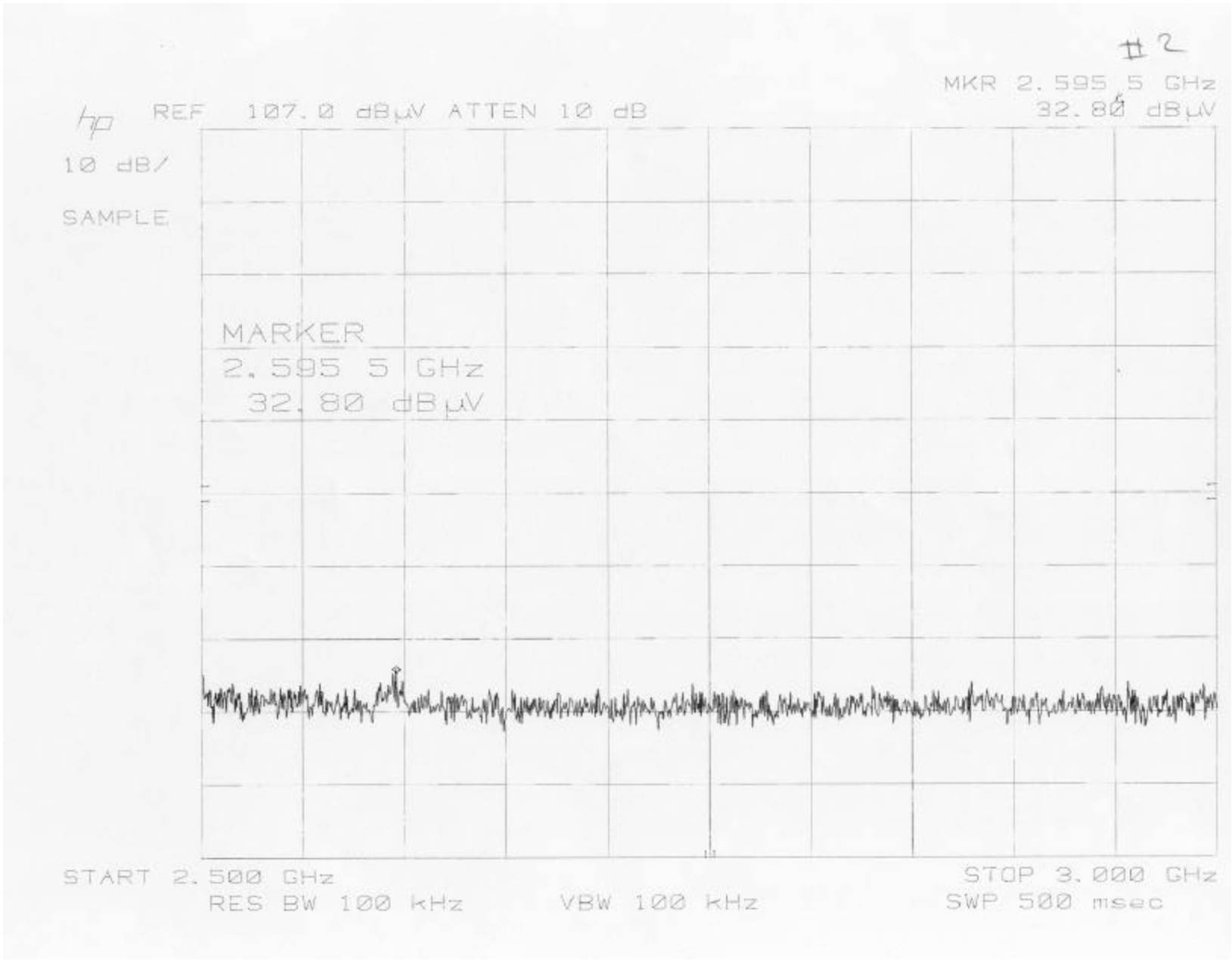

#2
MKR 22.876 GHz
43.90 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
22.876 GHz
43.90 dBµV
START 20.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 24.00 GHz
SWP 2.00 sec

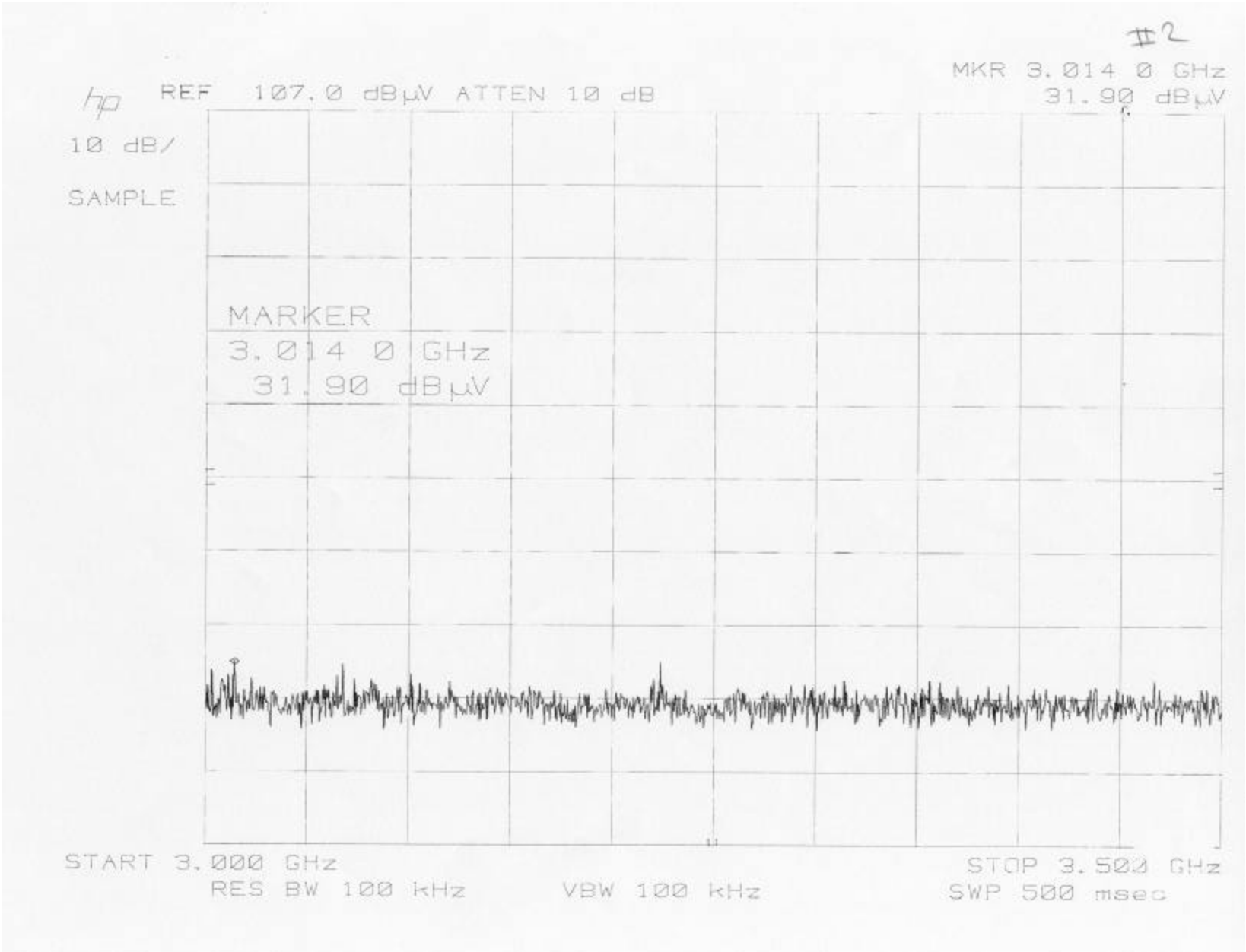
Radiated Emissions Plots
(1 - 24) GHz - Vertical Polarization
Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X
Channel 1

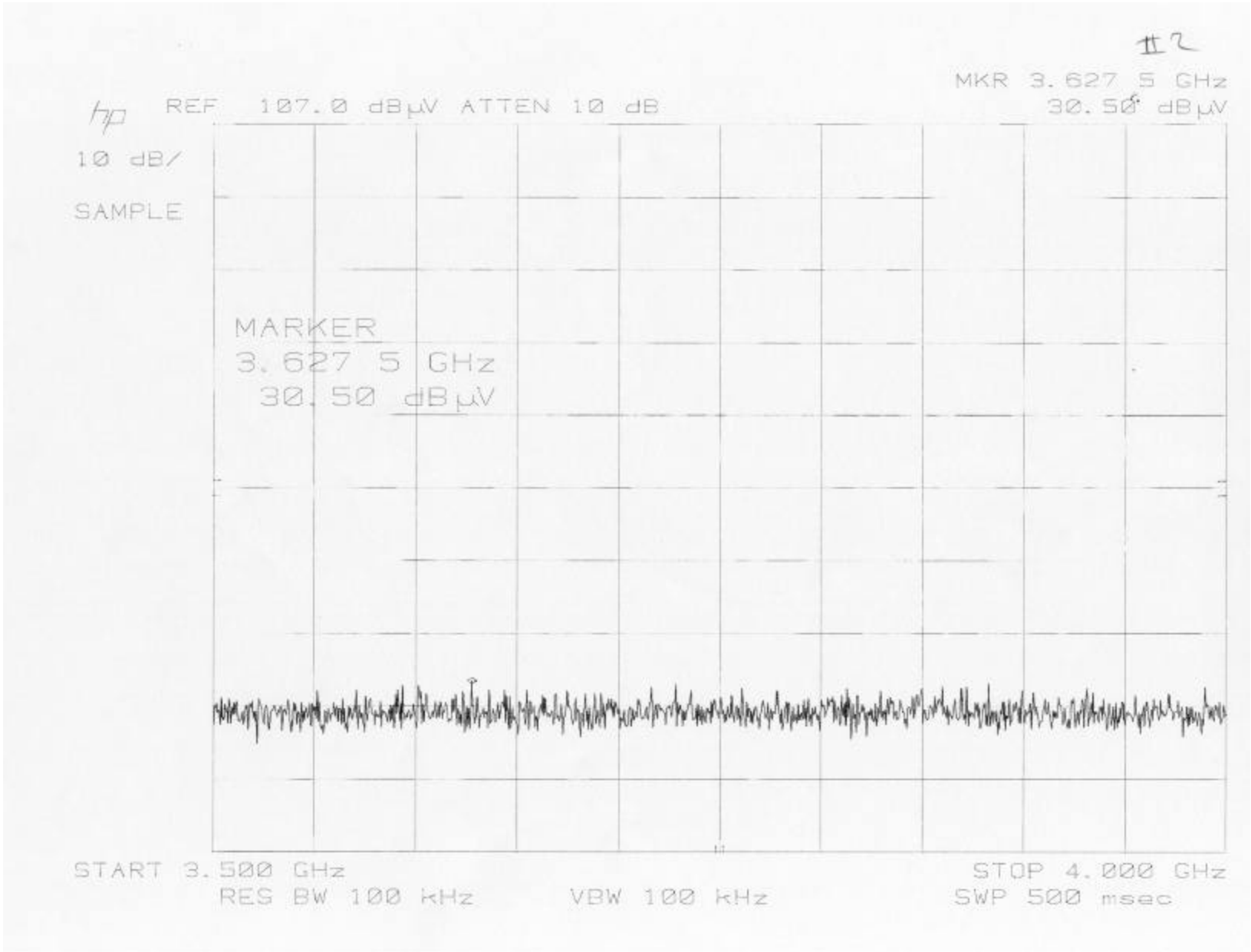

#2
MKR 1.097 0 GHz
42.80 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
1.097 0 GHz
42.80 dBµV
START 1.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 1.500 GHz
SWP 500 msec

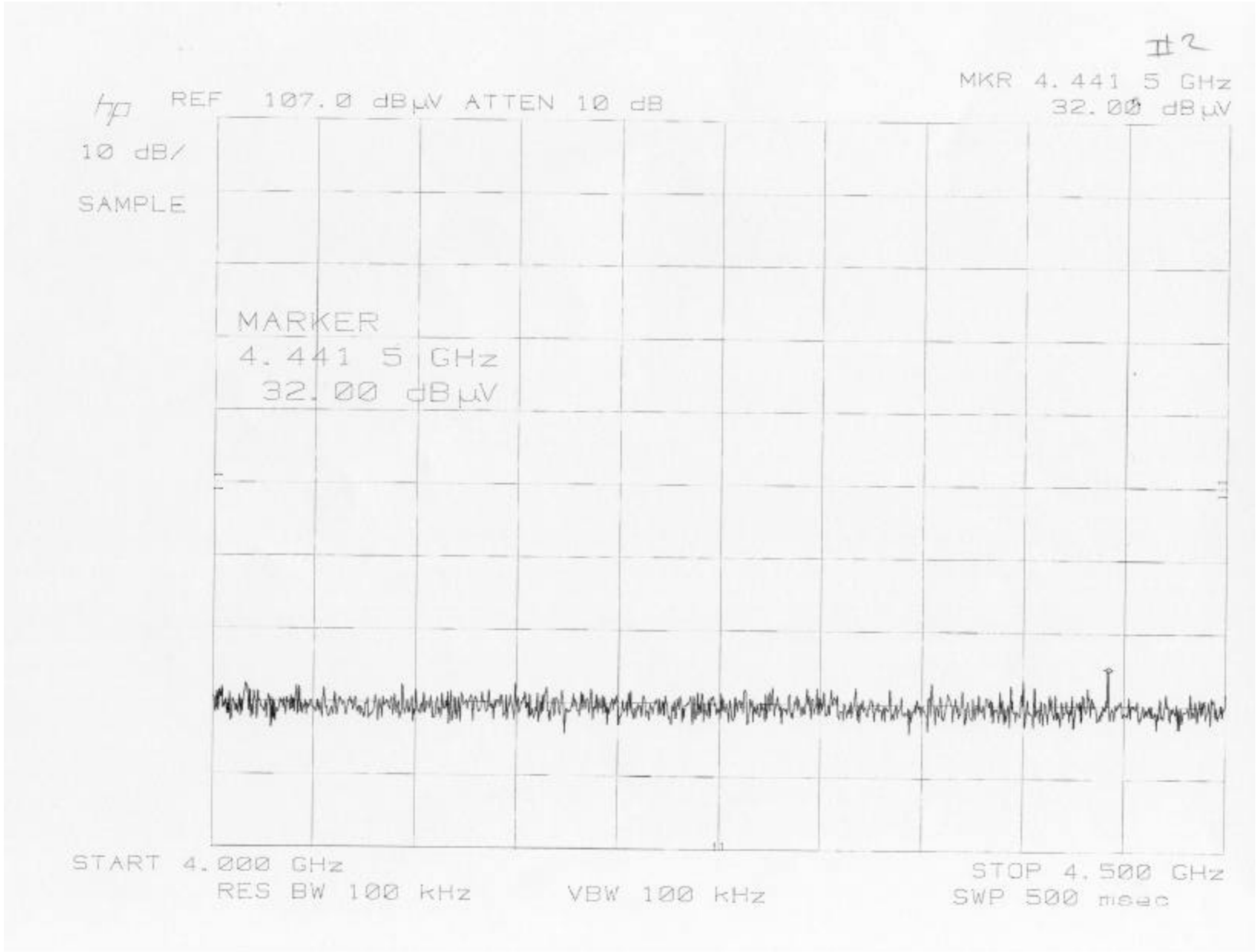

#2
MKR 1.806 5 GHz
50.70 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
1.806 5 GHz
50.70 dBµV
START 1.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.000 GHz
SWP 500 msec

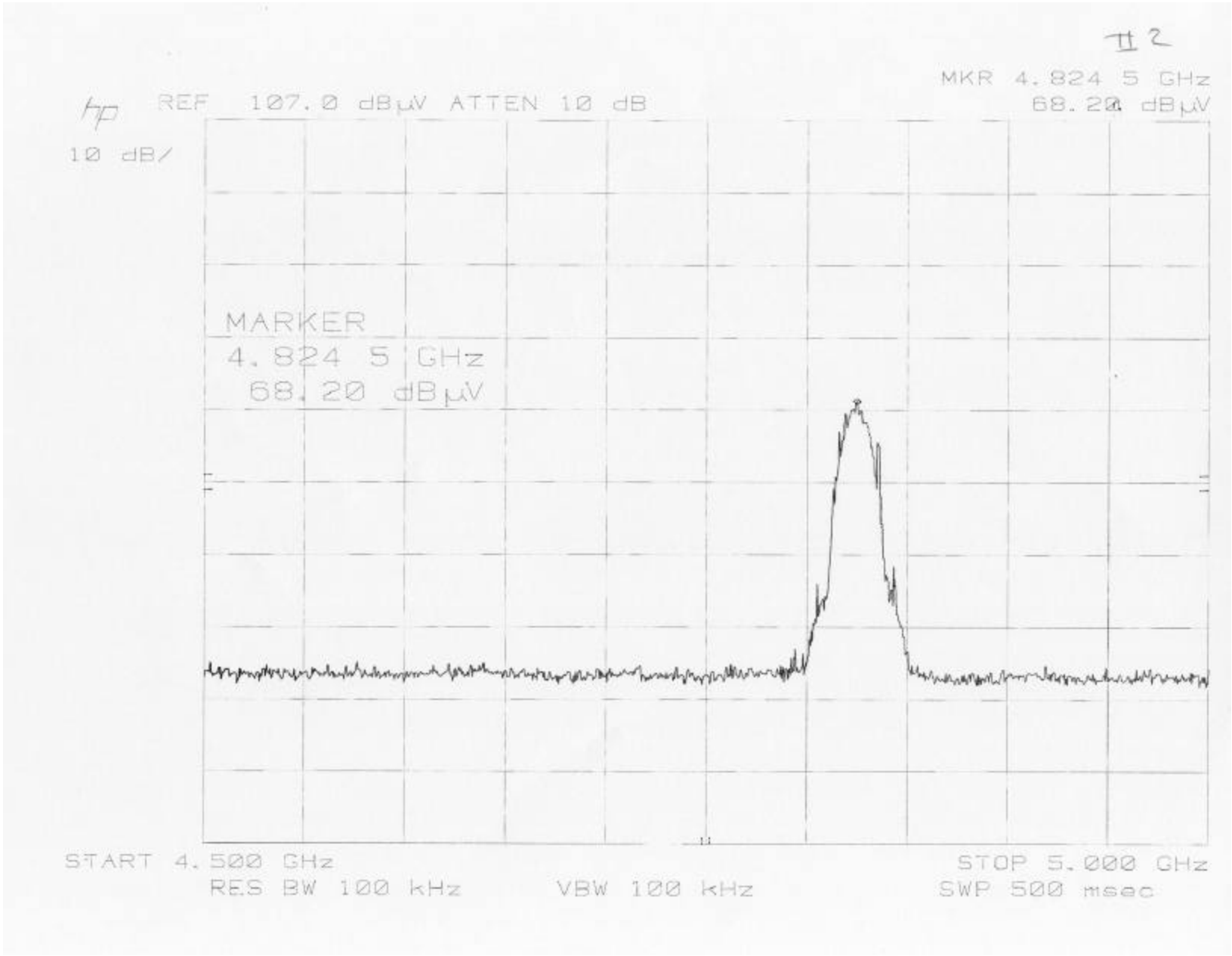

H 2
MKR 2.409 0 GHz
98.90 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
2.409 0 GHz
98.90 dBµV
START 2.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.500 GHz
SWP 500 msec

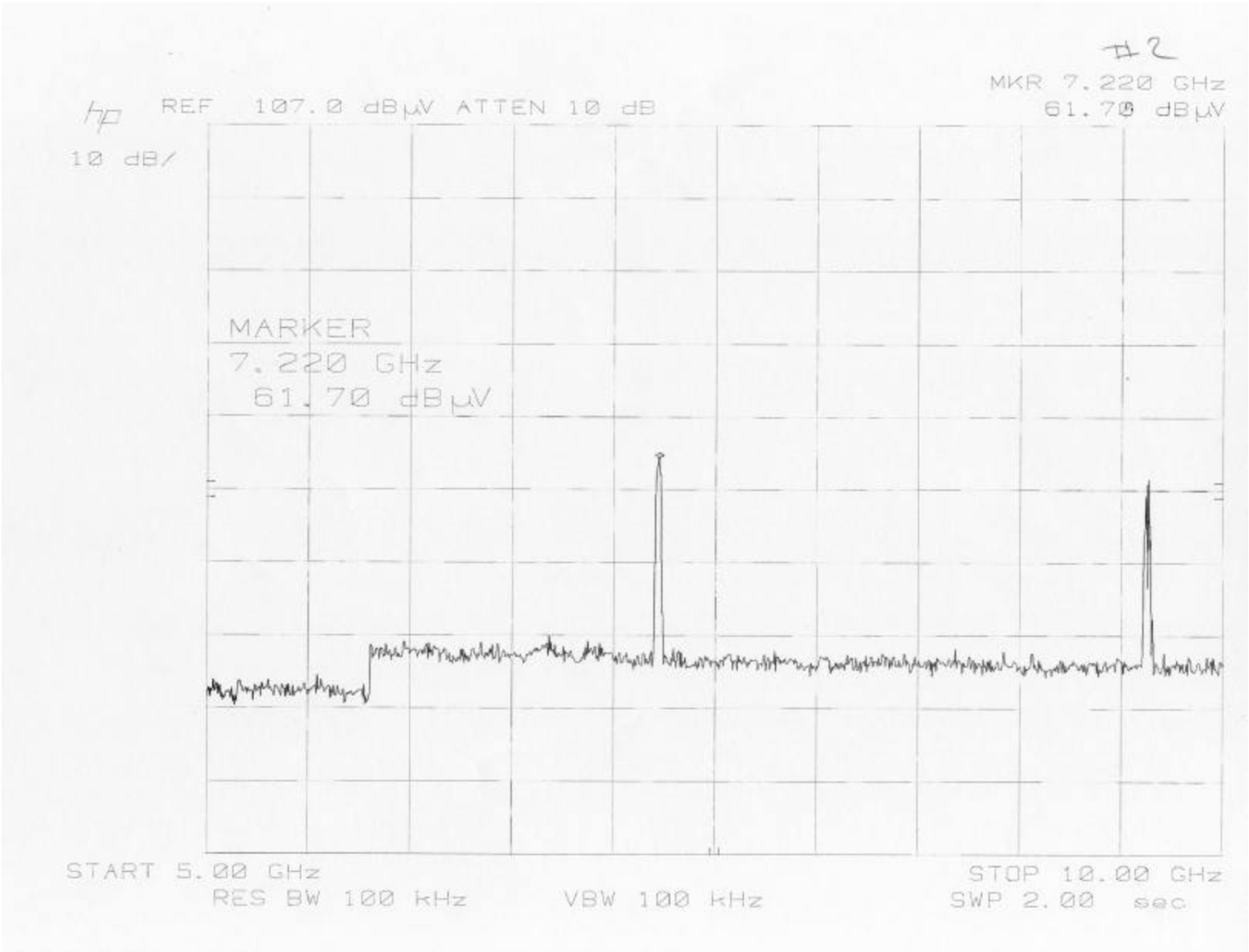

#2
MKR 2.595 5 GHz
32.80 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
2.595 5 GHz
32.80 dBµV
START 2.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.000 GHz
SWP 500 msec

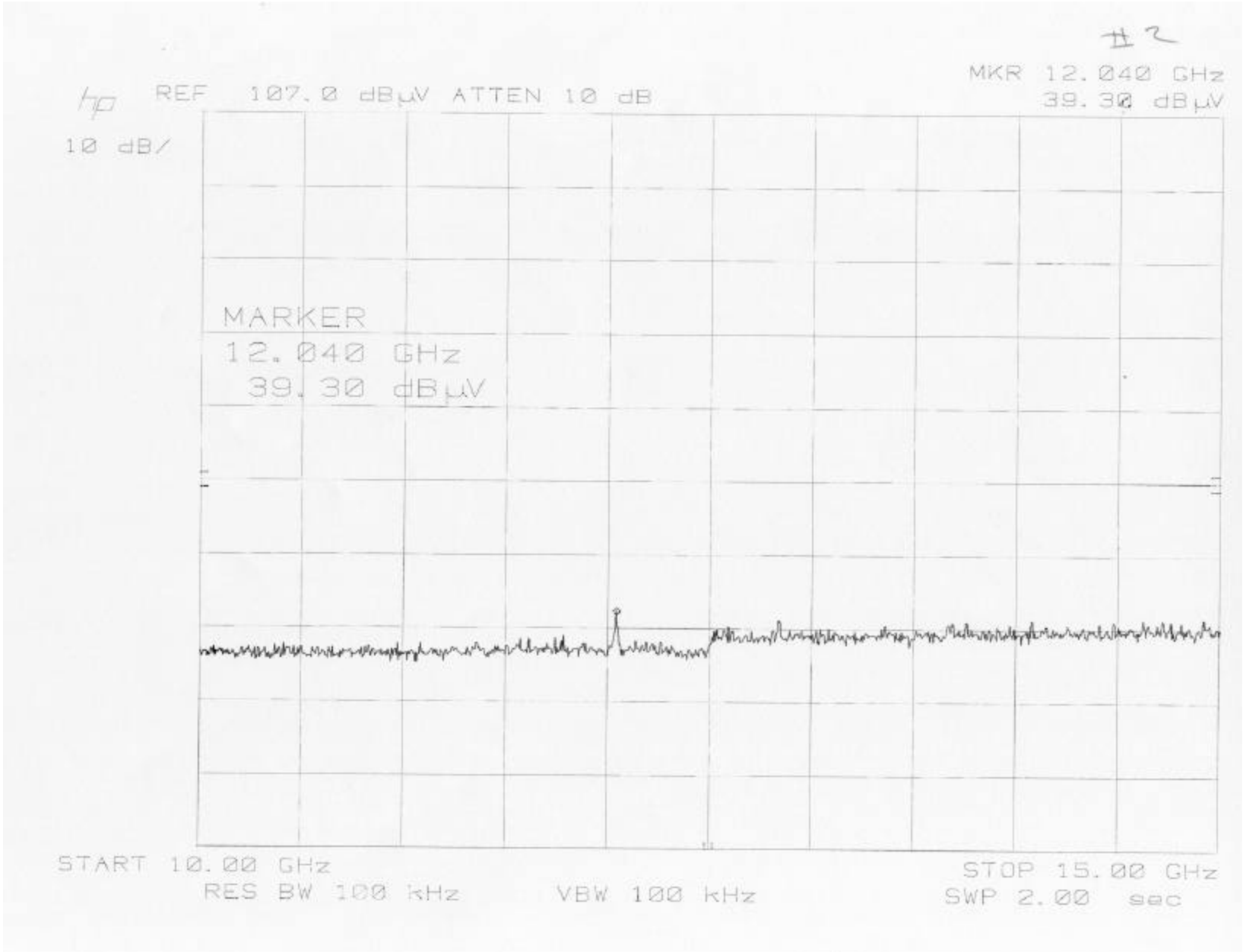

#2
MKR 3.014 0 GHz
31.90 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
3.014 0 GHz
31.90 dBµV
START 3.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.500 GHz
SWP 500 msec

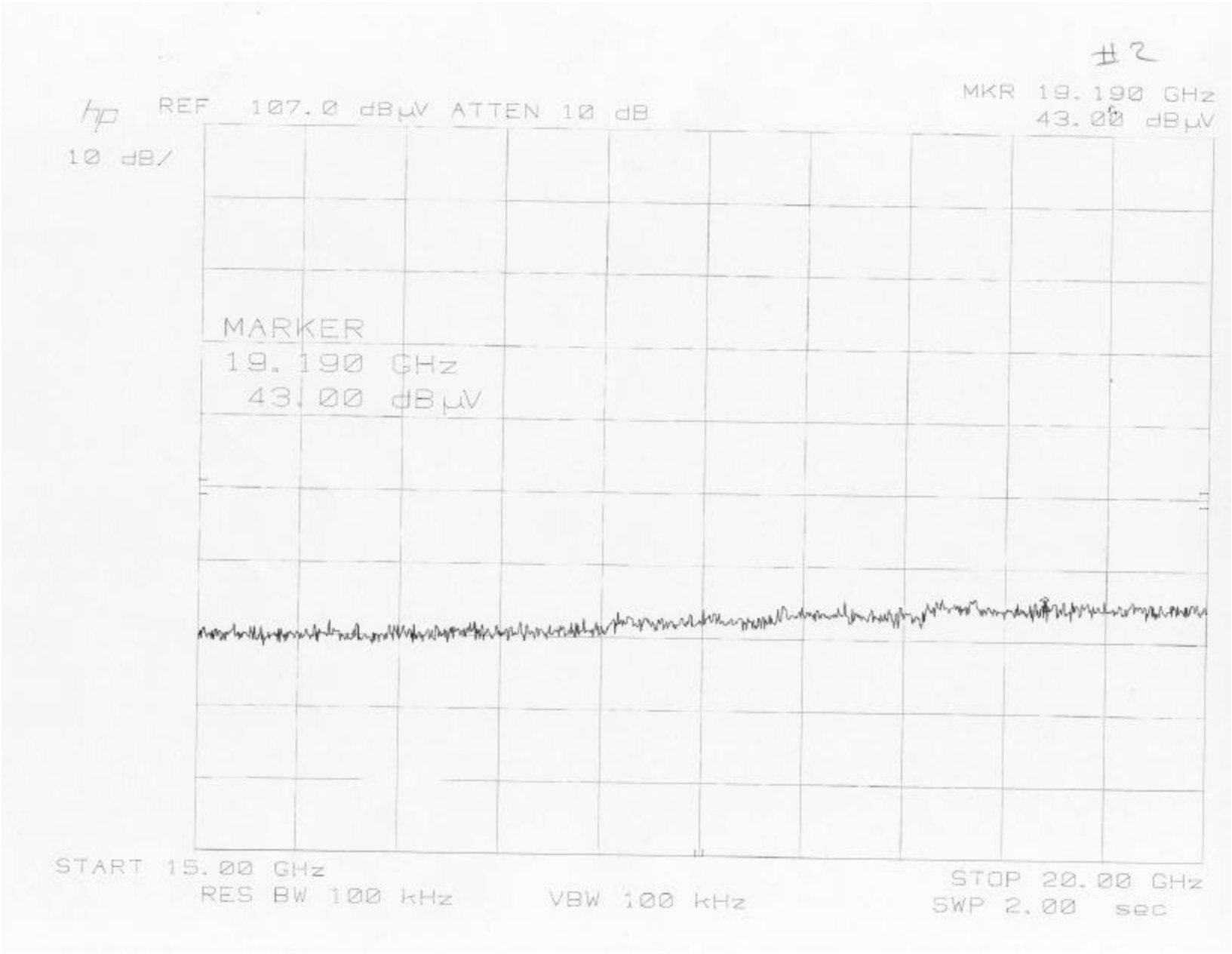

112
MKR 3.627 5 GHz
30.50 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
3.627 5 GHz
30.50 dBµV
START 3.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 4.000 GHz
SWP 500 msec

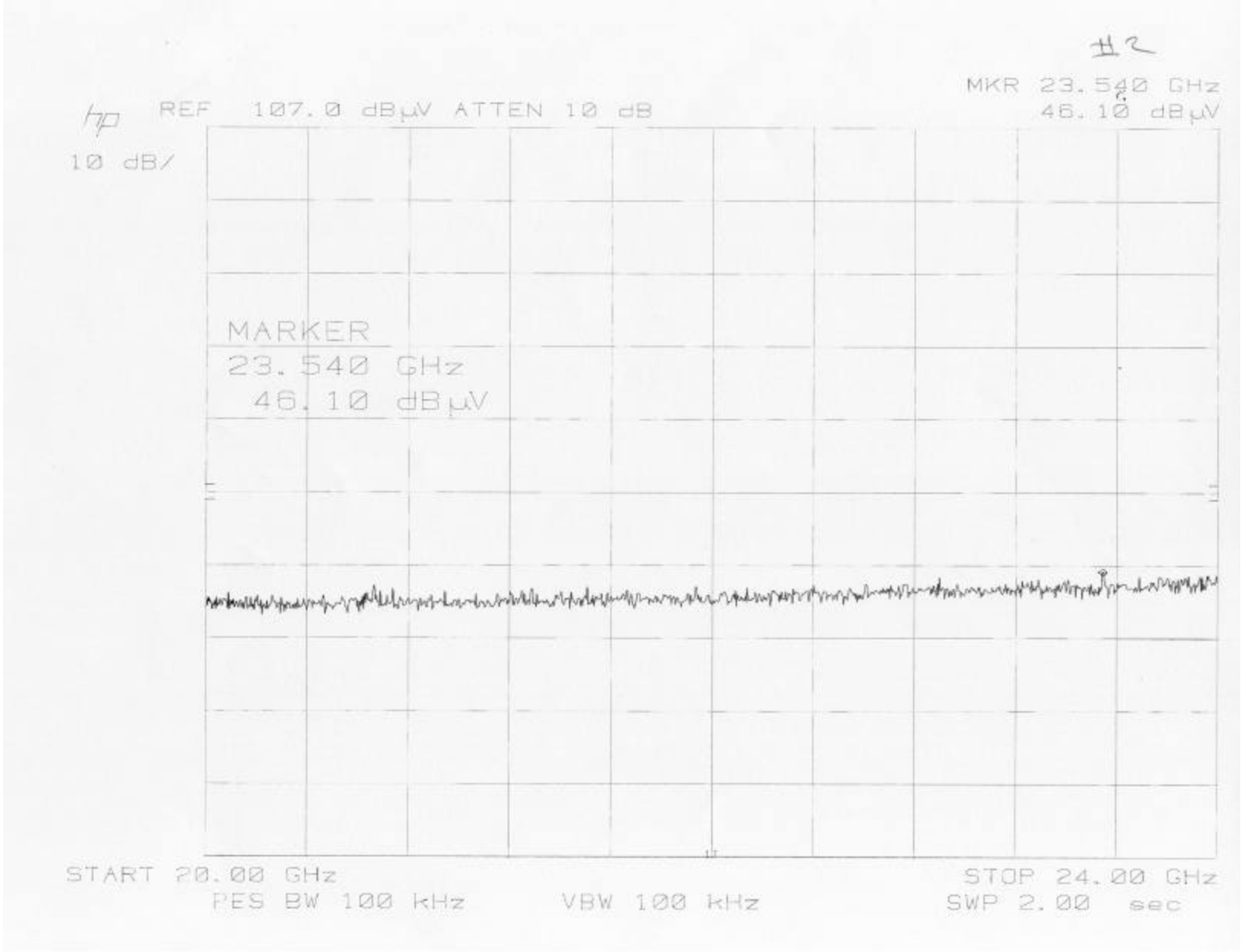

#2
MKR 4.441 5 GHz
32.00 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
SAMPLE
MARKER
4.441 5 GHz
32.00 dBµV
START 4.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 4.500 GHz
SWP 500 msec


H 2
MKR 4.824 5 GHz
68.20 dBμV
REF 107.0 dBμV ATTEN 10 dB
10 dB/
MARKER
4.824 5 GHz
68.20 dBμV
START 4.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 5.000 GHz
SWP 500 msec

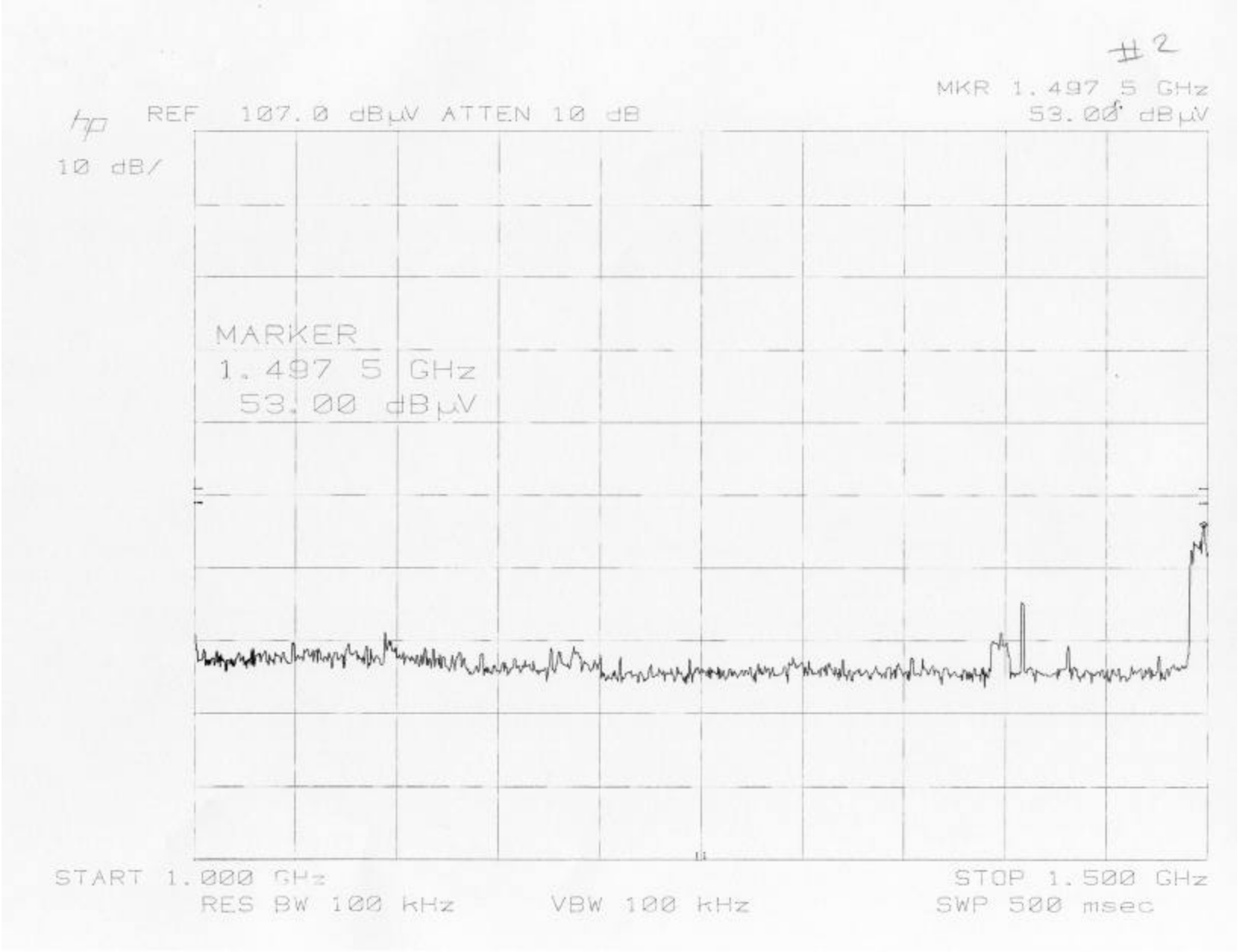

#2
MKR 7.220 GHz
61.70 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
7.220 GHz
61.70 dBµV
START 5.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 10.00 GHz
SWP 2.00 sec

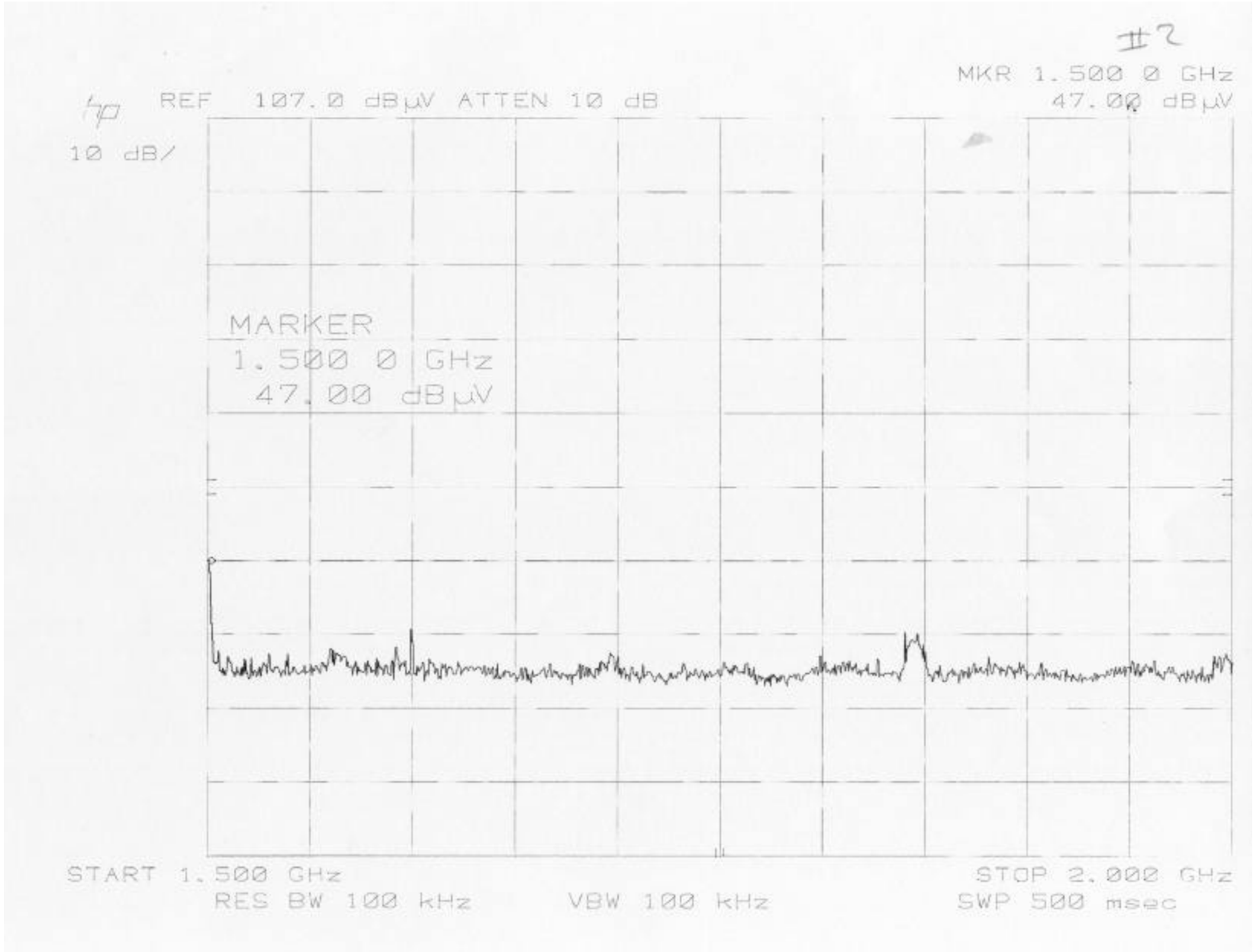

#2
MKR 12.040 GHz
39.30 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
12.040 GHz
39.30 dBµV
START 10.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 15.00 GHz
SWP 2.00 sec

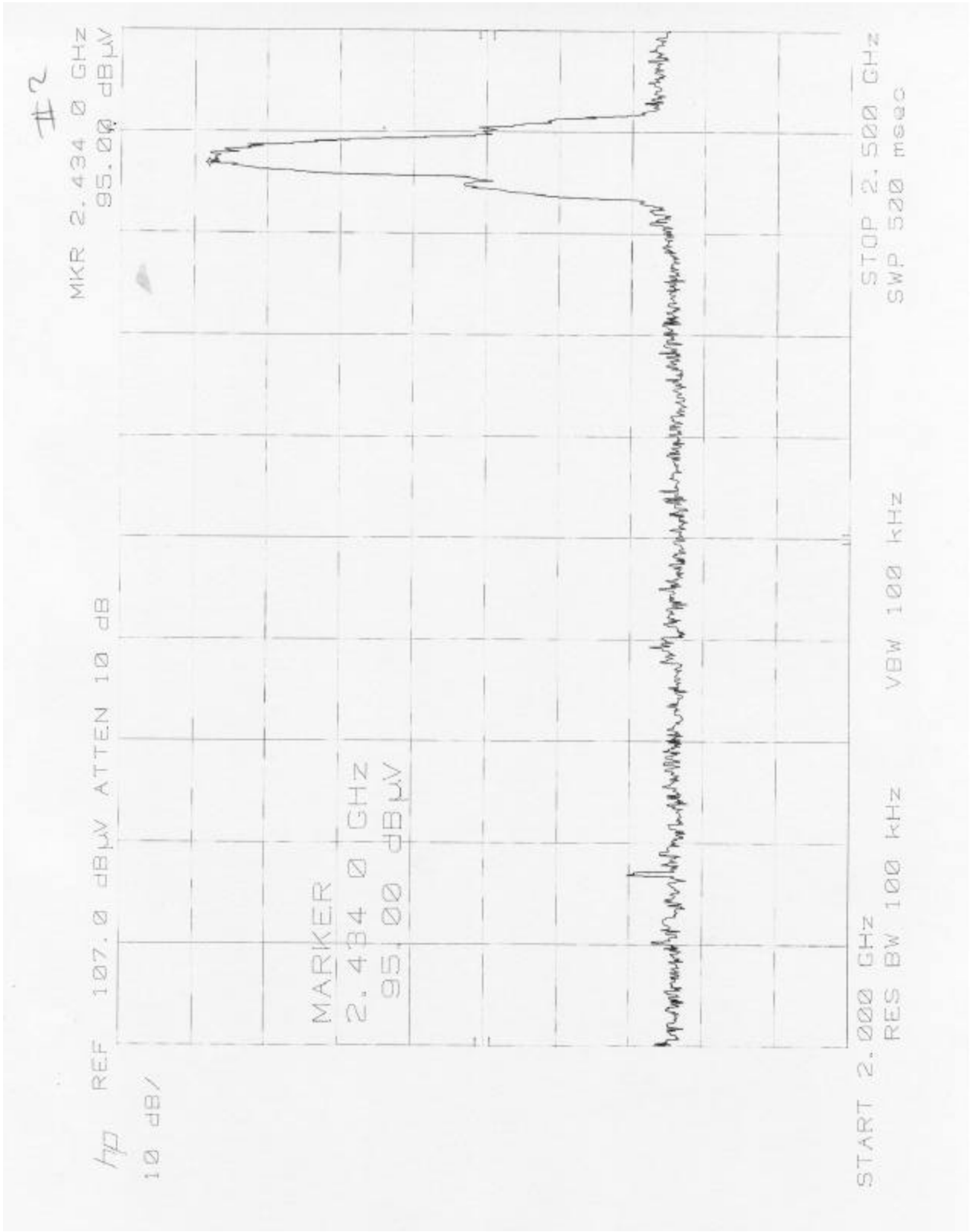

#2
MKR 19.190 GHz
43.00 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
19.190 GHz
43.00 dBµV
START 15.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 20.00 GHz
SWP 2.00 sec

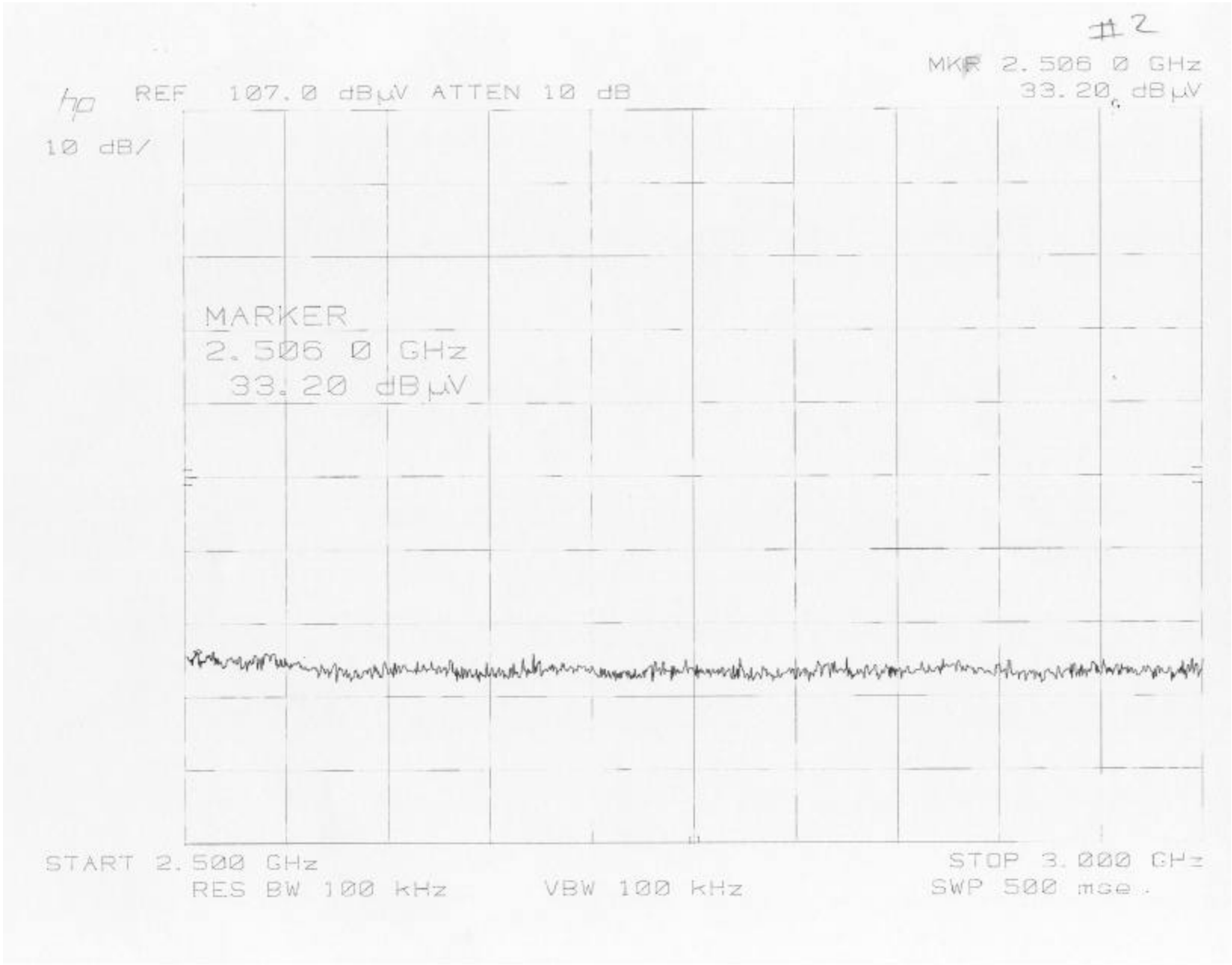

H2
MKR 23.540 GHz
46.10 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
23.540 GHz
46.10 dBµV
START 20.00 GHz
STOP 24.00 GHz
RES BW 100 kHz
VBW 100 kHz
SWP 2.00 sec

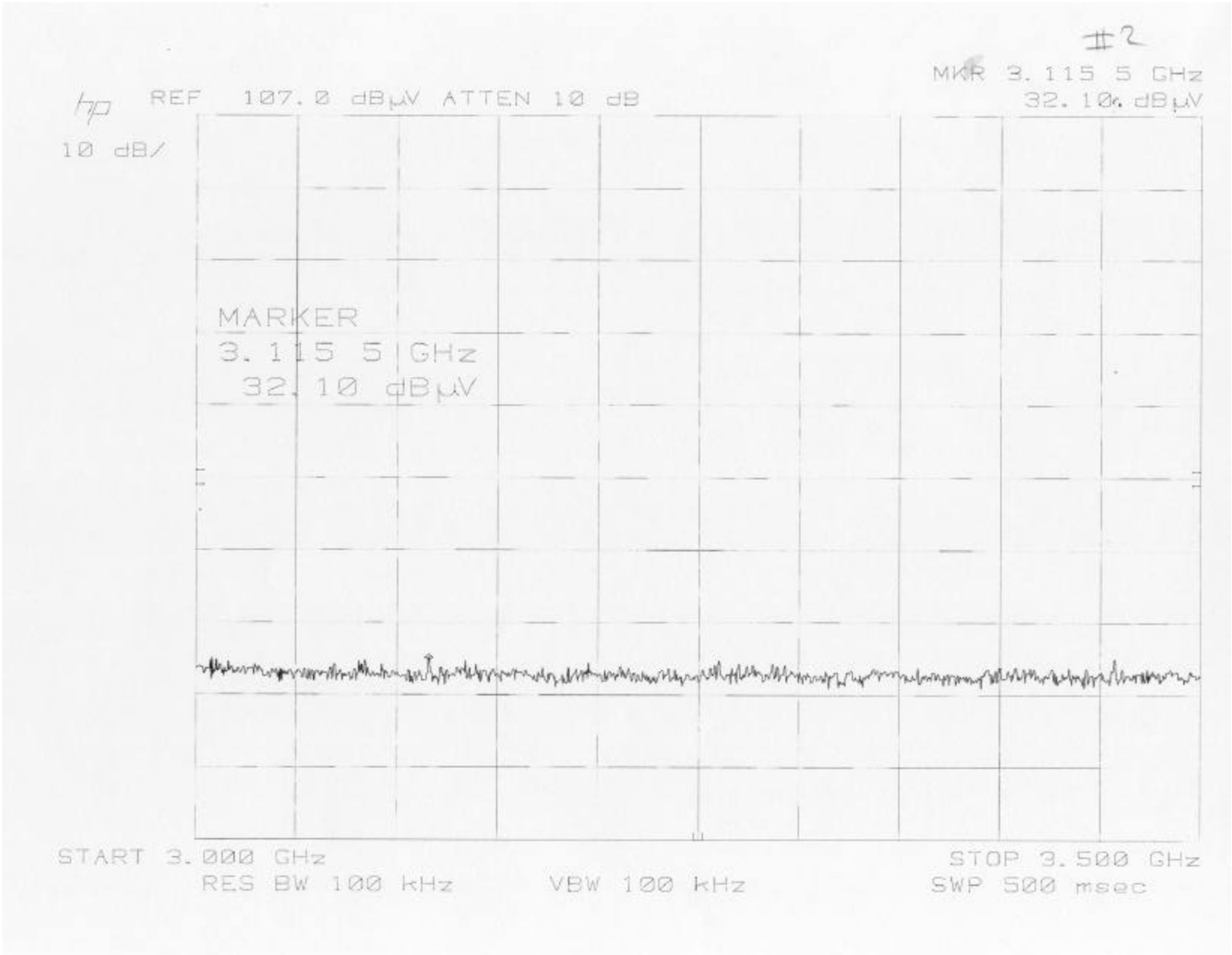
Radiated Emissions Plots
(1 - 24) GHz - Horizontal Polarization
Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X
Channel 6

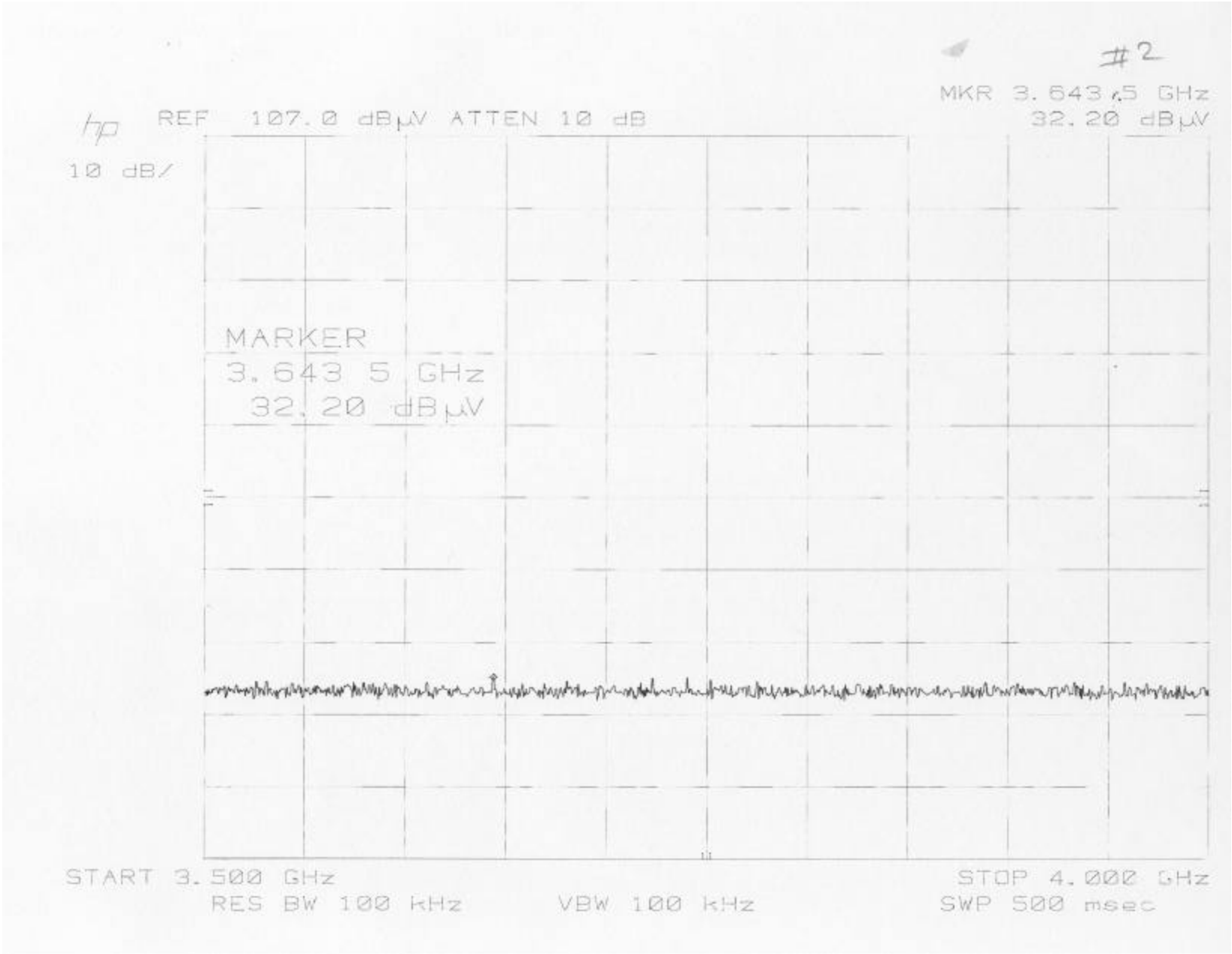

#2
MKR 1.497 5 GHz
53.00 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
1.497 5 GHz
53.00 dBµV
START 1.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 1.500 GHz
SWP 500 msec

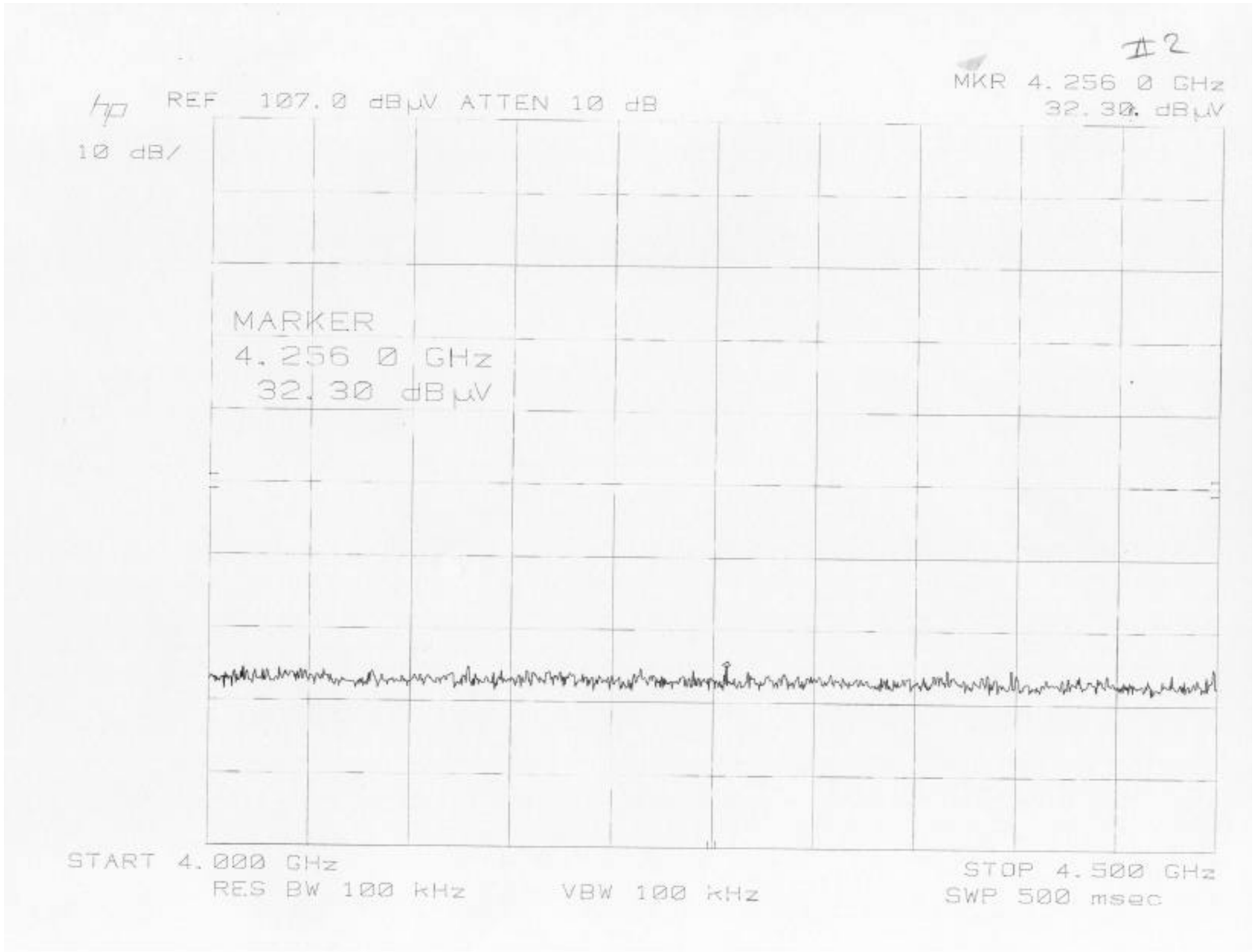

#2
MKR 1.500 0 GHz
47.00 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
1.500 0 GHz
47.00 dBµV
START 1.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.000 GHz
SWP 500 msec

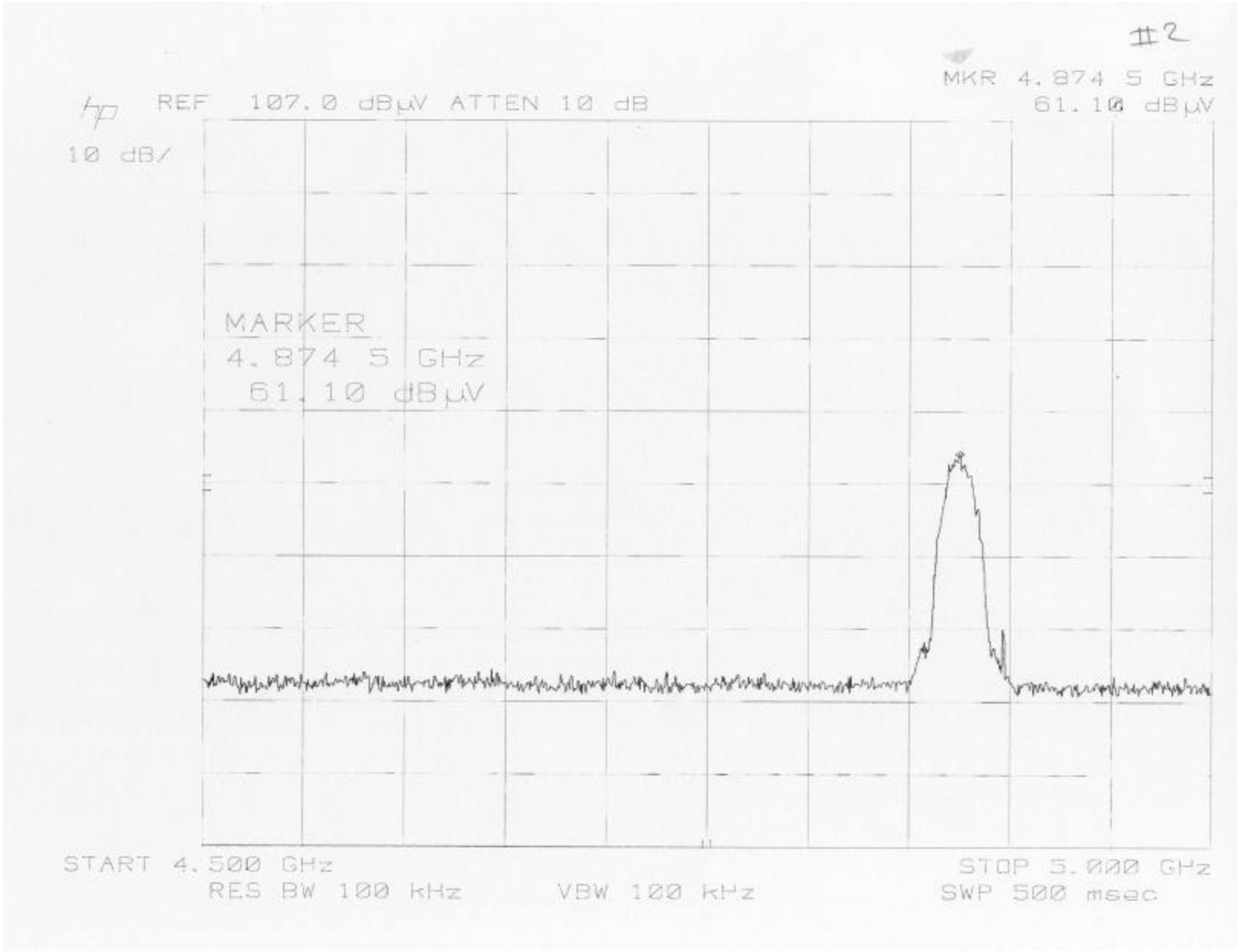

#2
MKR 2.434 0 GHz
95.00 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
2.434 0 GHz
95.00 dBµV
START 2.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.500 GHz
SWP 500 msec

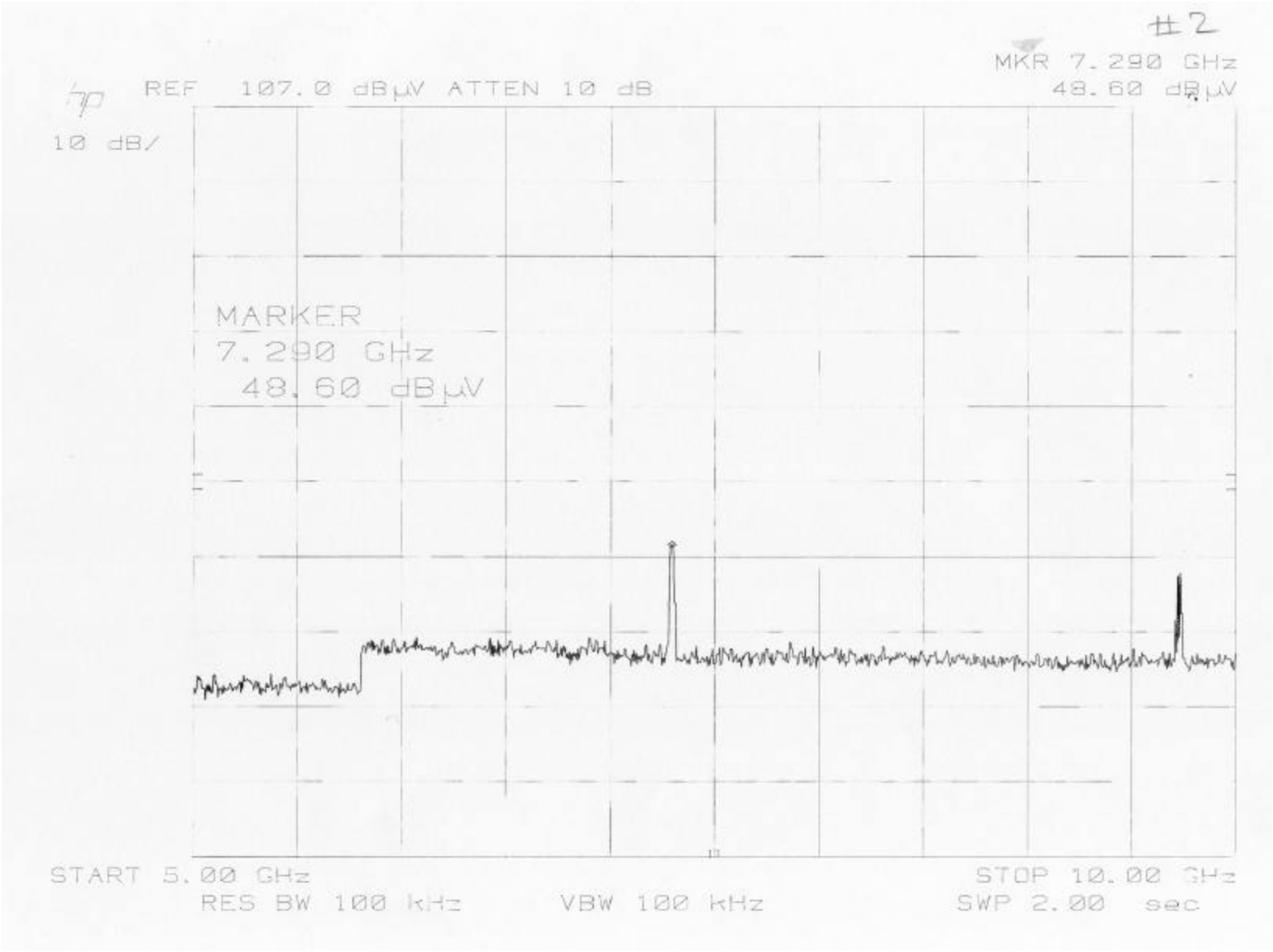

#2
MKR 2.506 0 GHz
33.20 dBµV
hp REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
2.506 0 GHz
33.20 dBµV
START 2.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.000 GHz
SWP 500 mse.

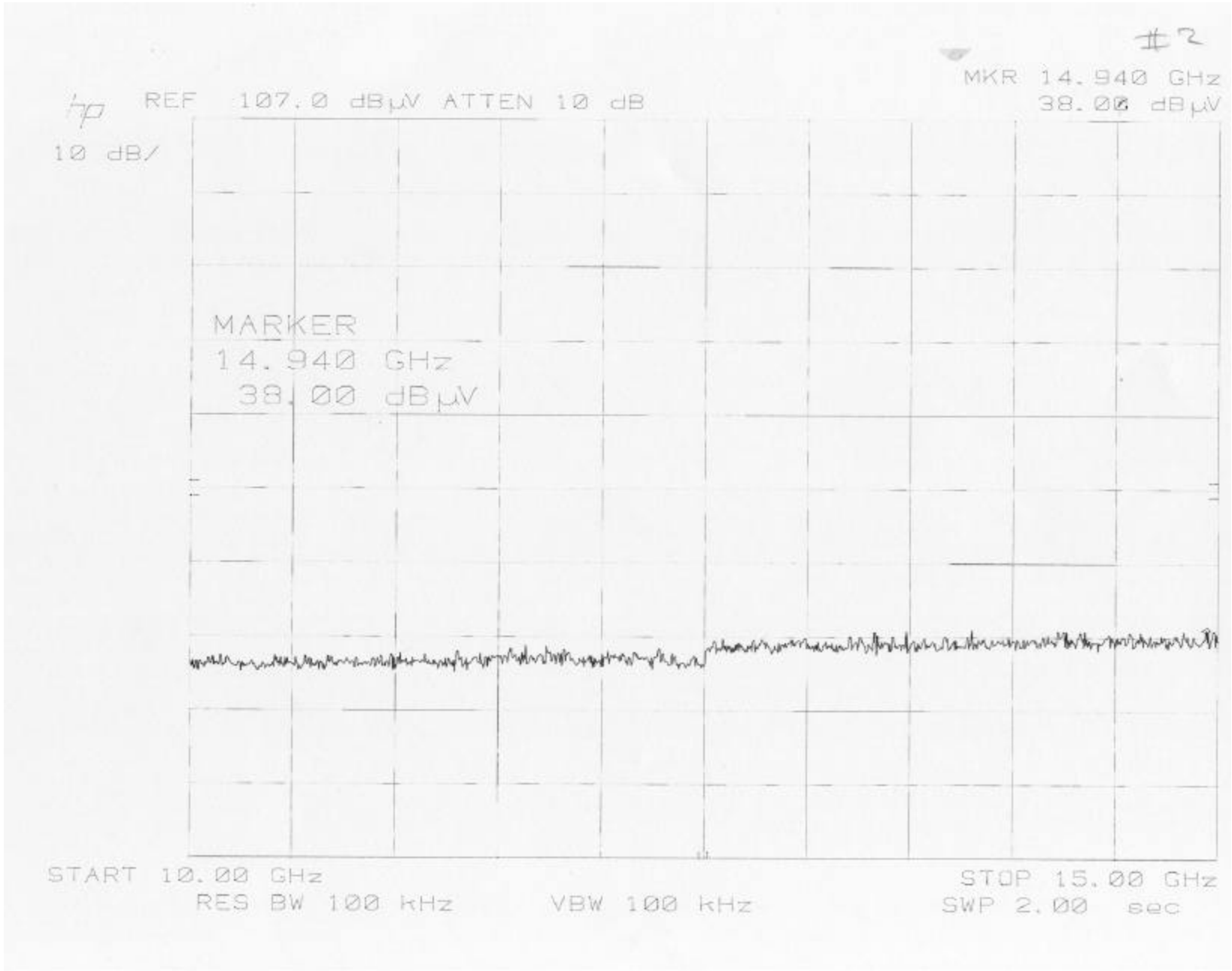

#2
MKR 3.115 5 GHz
32.10 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
3.115 5 GHz
32.10 dBµV
START 3.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.500 GHz
SWP 500 msec

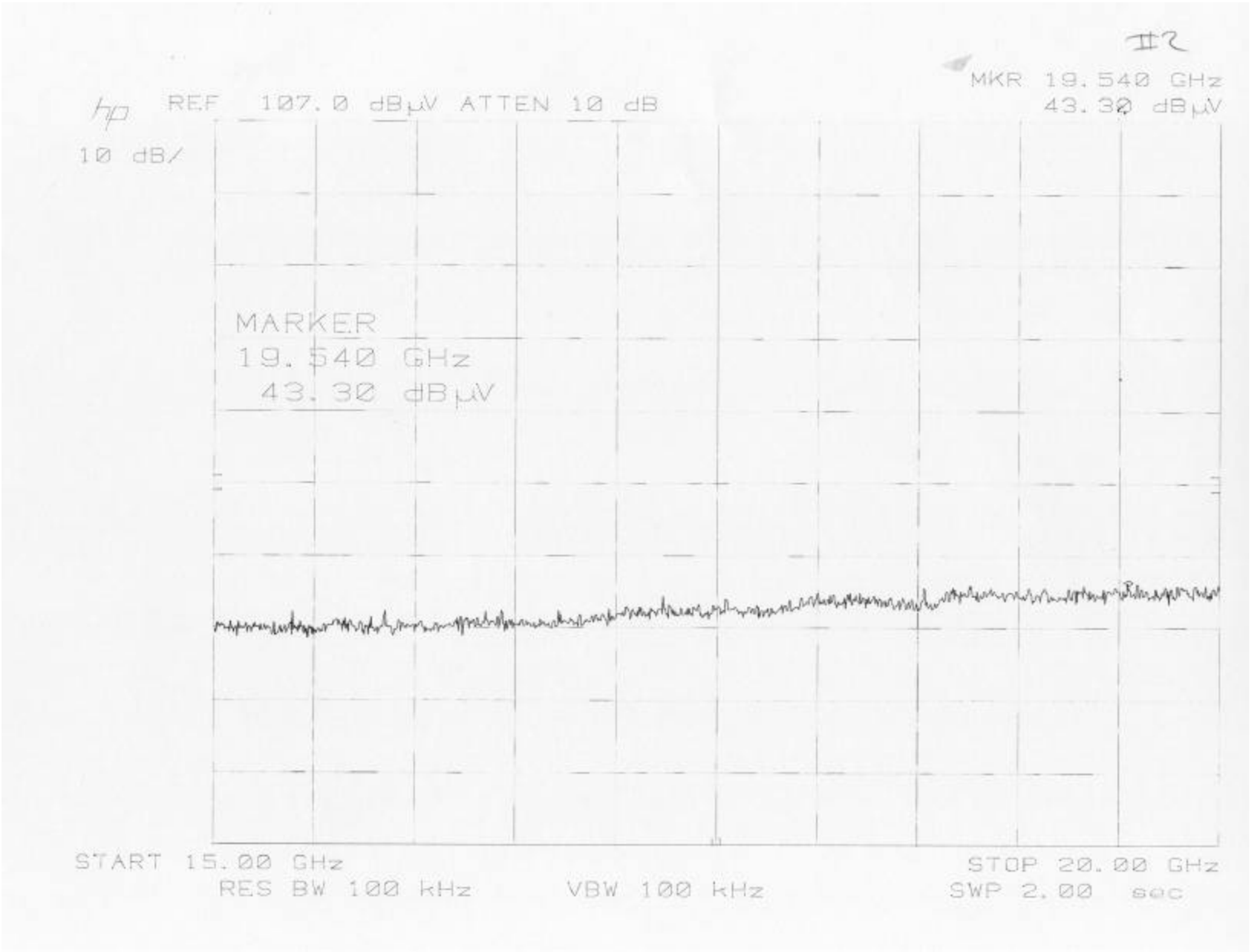

#2
MKR 3.643 5 GHz
32.20 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
3.643 5 GHz
32.20 dBµV
START 3.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 4.000 GHz
SWP 500 msec

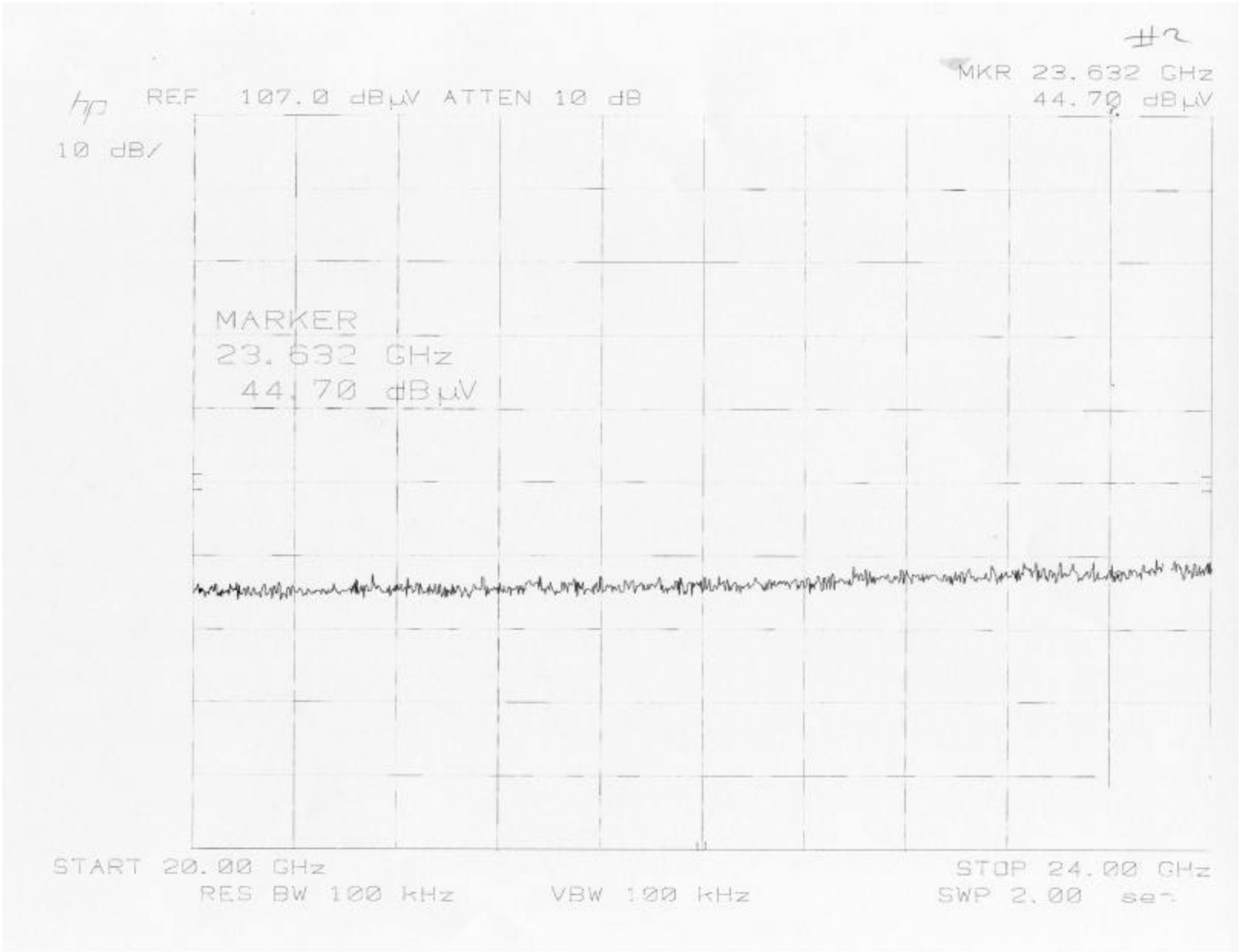

#2
MKR 4.256 0 GHz
32.30 dBμV
REF 107.0 dBμV ATTEN 10 dB
10 dB/
MARKER
4.256 0 GHz
32.30 dBμV
START 4.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 4.500 GHz
SWP 500 msec


#2
MKR 4.874 5 GHz
61.10 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
4.874 5 GHz
61.10 dBµV
START 4.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 5.000 GHz
SWP 500 msec

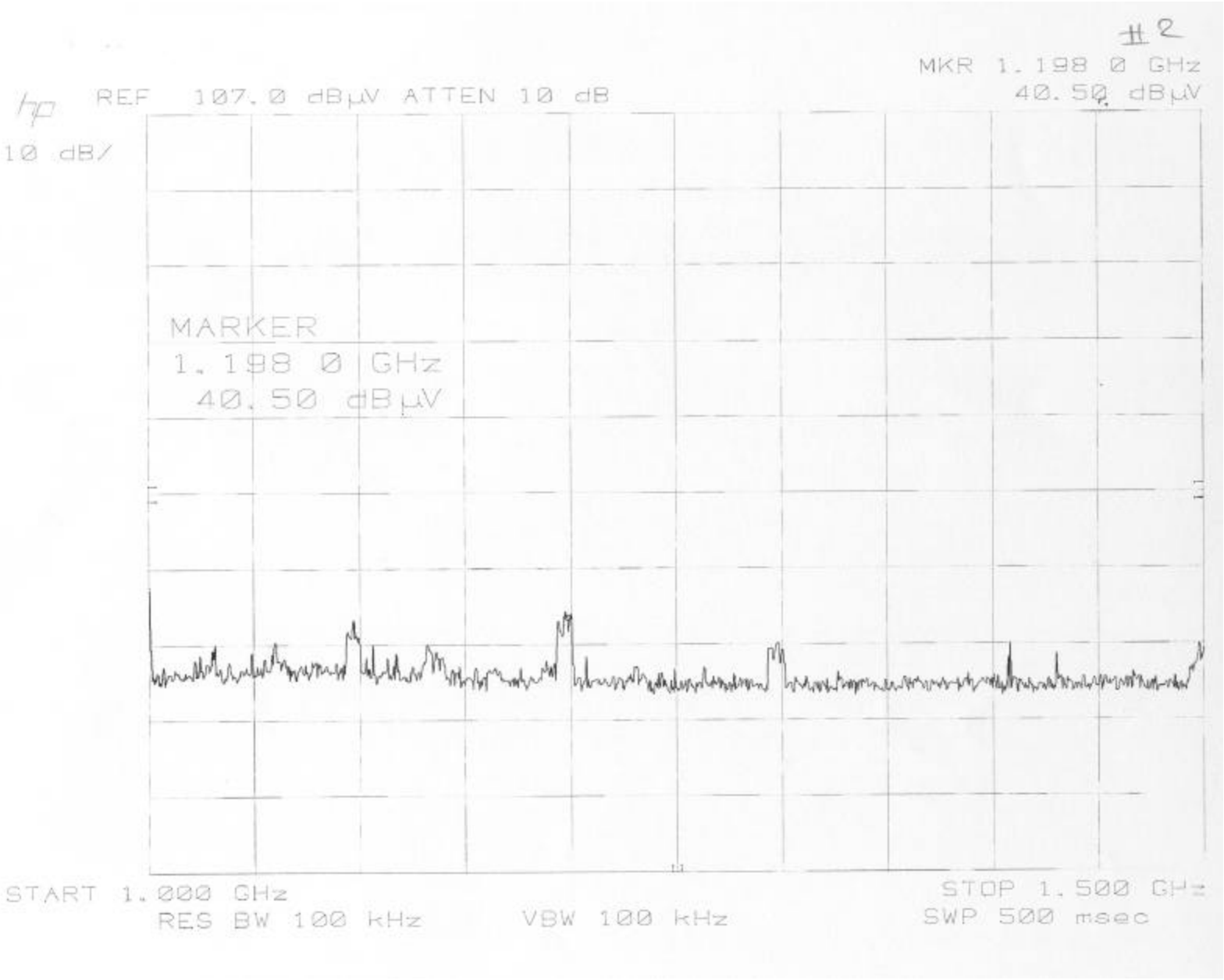

#2
MKR 7.290 GHz
48.60 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
7.290 GHz
48.60 dBµV
START 5.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 10.00 GHz
SWP 2.00 sec

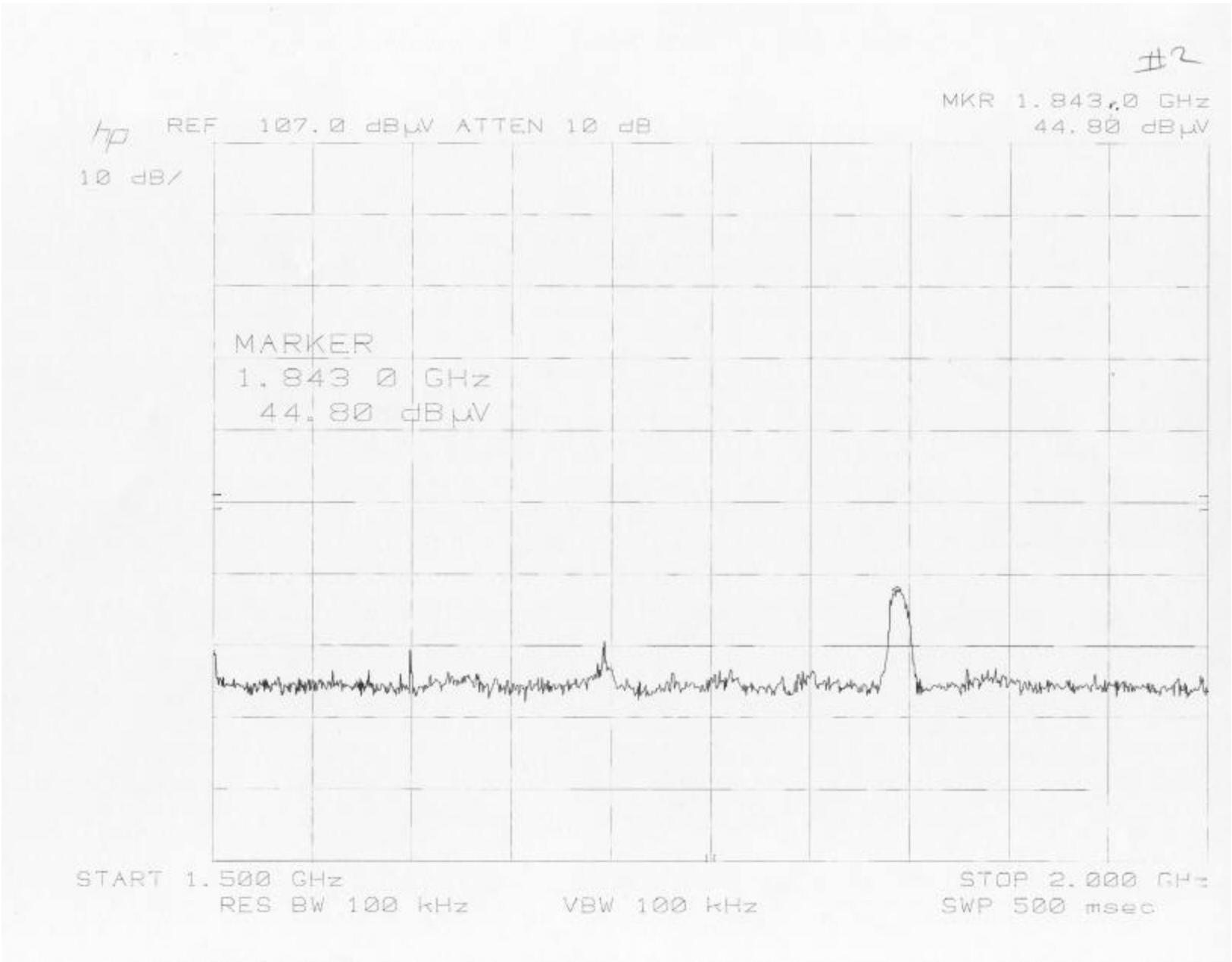

#2
MKR 14.940 GHz
38.00 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
14.940 GHz
38.00 dBµV
START 10.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 15.00 GHz
SWP 2.00 sec

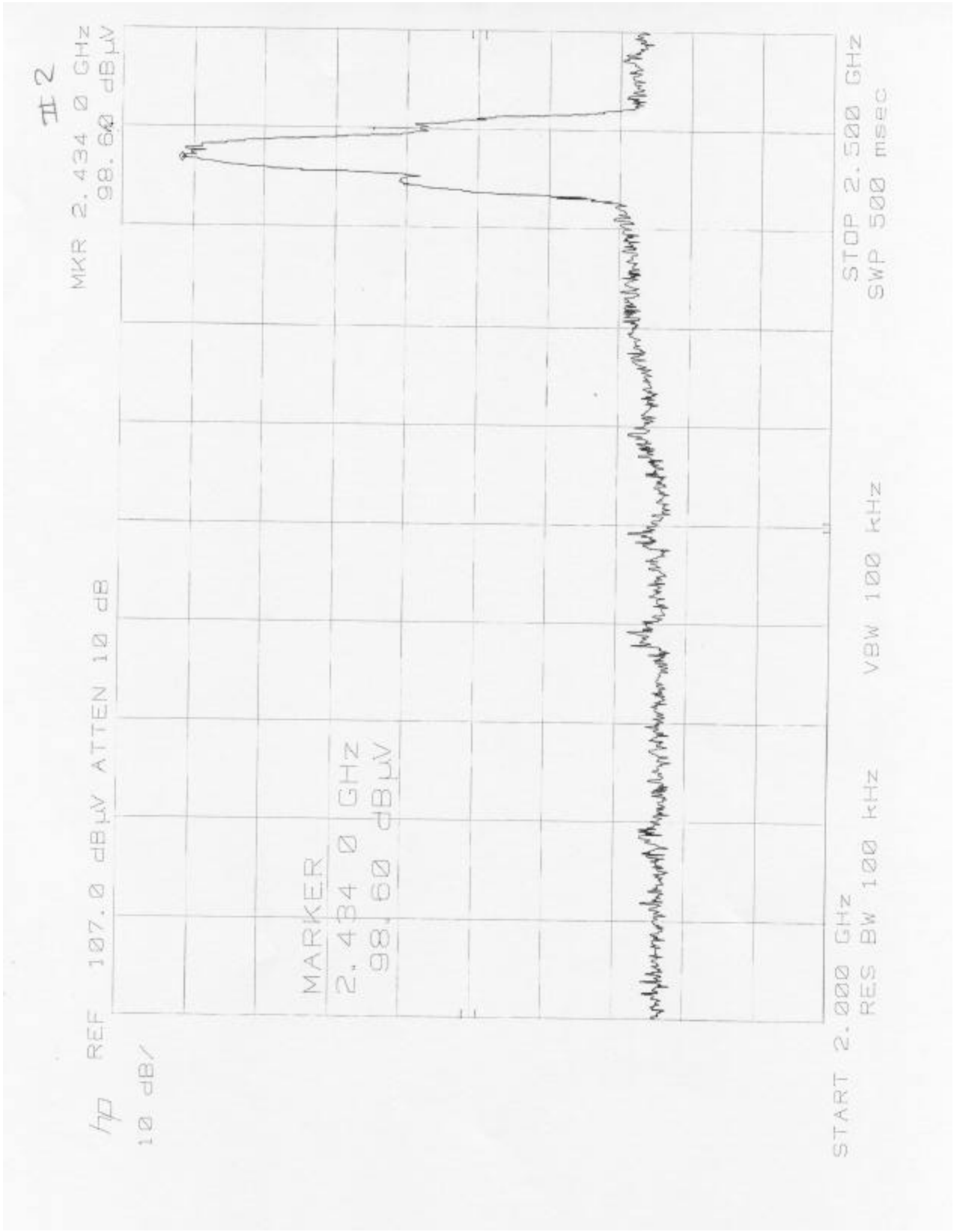

H2
MKR 19.540 GHz
43.30 dBµV
hp REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
19.540 GHz
43.30 dBµV
START 15.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 20.00 GHz
SWP 2.00 sec

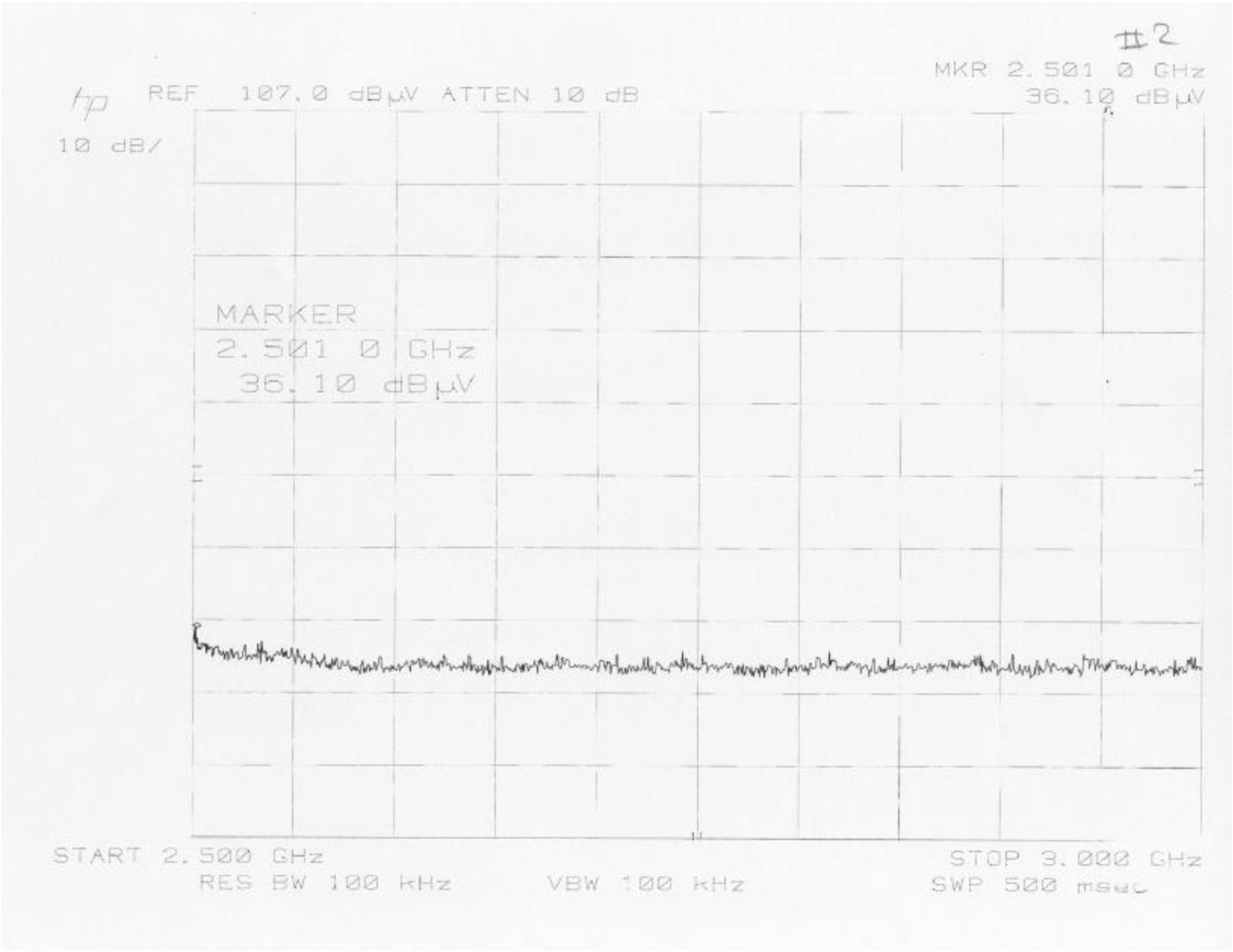

#2
MKR 23.632 GHz
44.70 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
23.632 GHz
44.70 dBµV
START 20.00 GHz
STOP 24.00 GHz
RES BW 100 kHz
VBW 100 kHz
SWP 2.00 sec

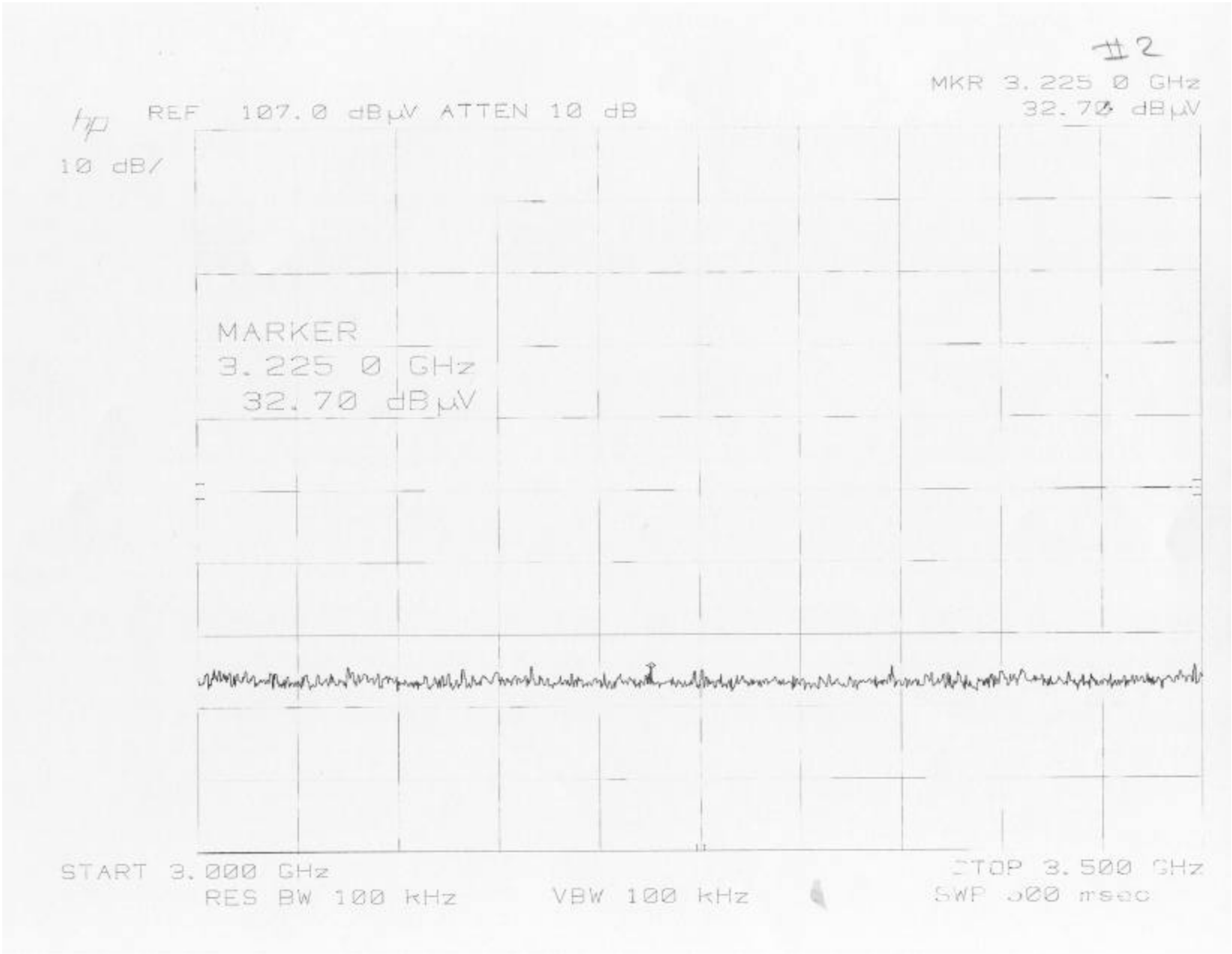
Radiated Emissions Plots
(1 - 24) GHz - Vertical Polarization
Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X
Channel 6

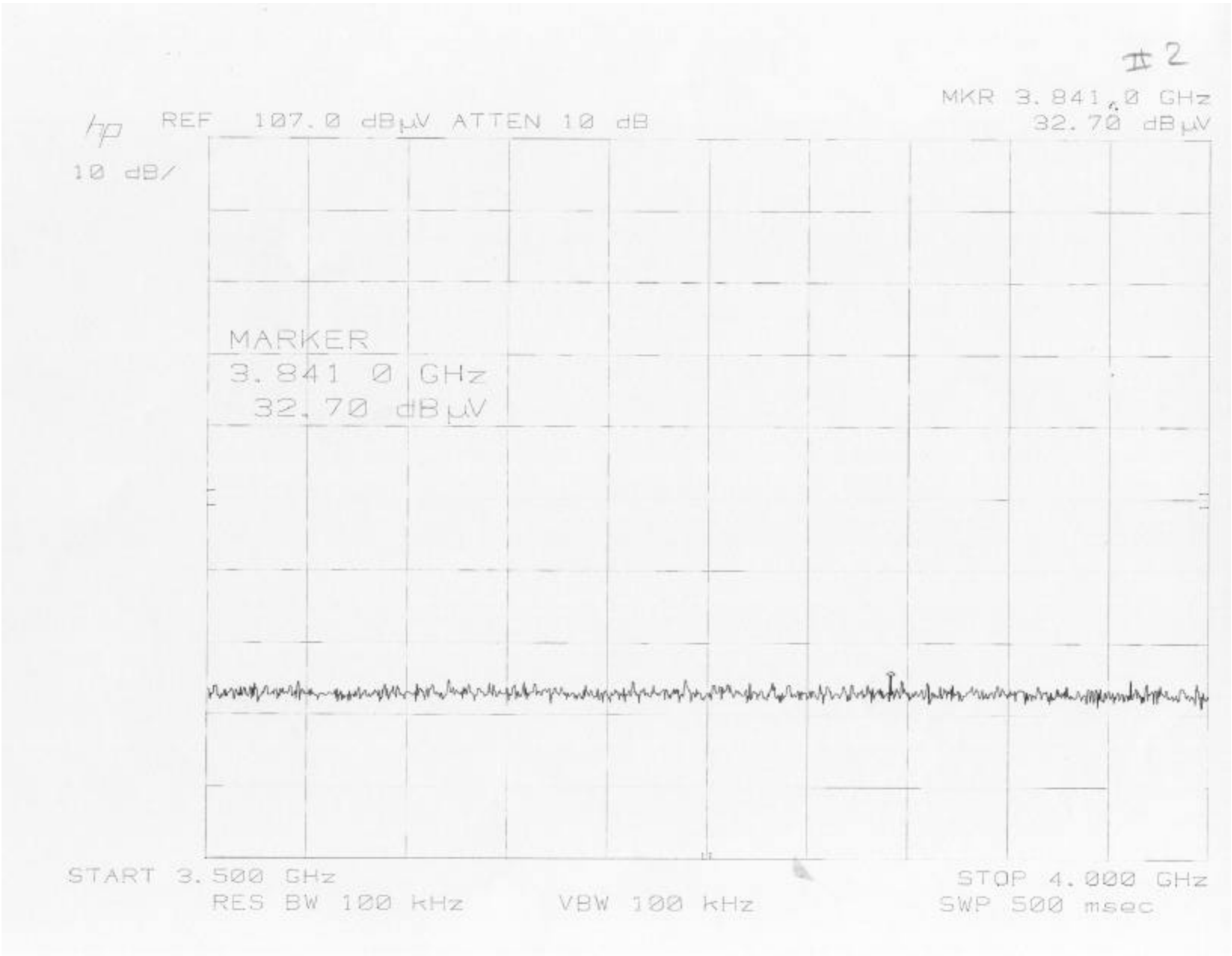

#2
MKR 1.198 0 GHz
40.50 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
1.198 0 GHz
40.50 dBµV
START 1.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 1.500 GHz
SWP 500 msec

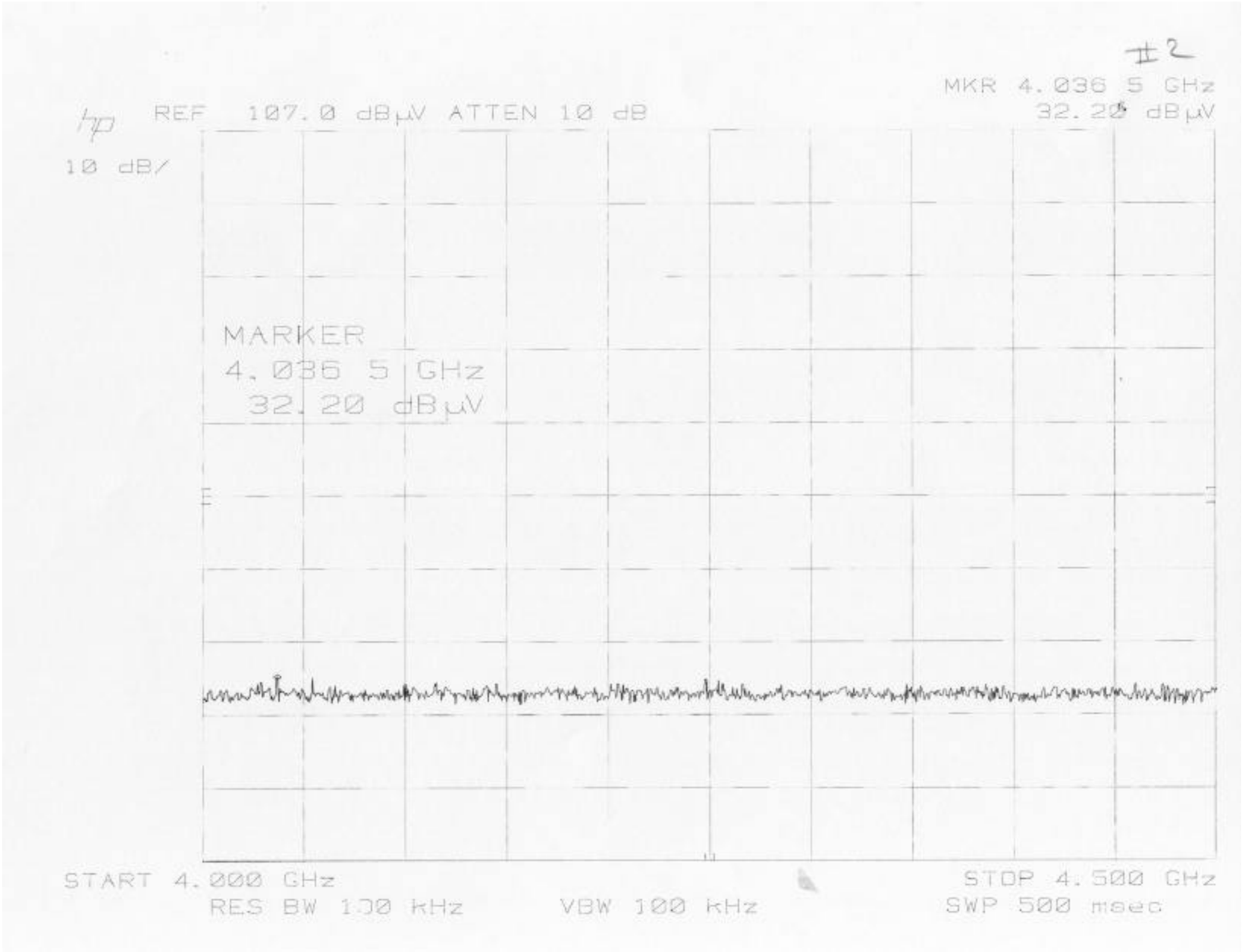

#2
MKR 1.843.0 GHz
44.80 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
1.843 0 GHz
44.80 dBµV
START 1.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.000 GHz
SWP 500 msec

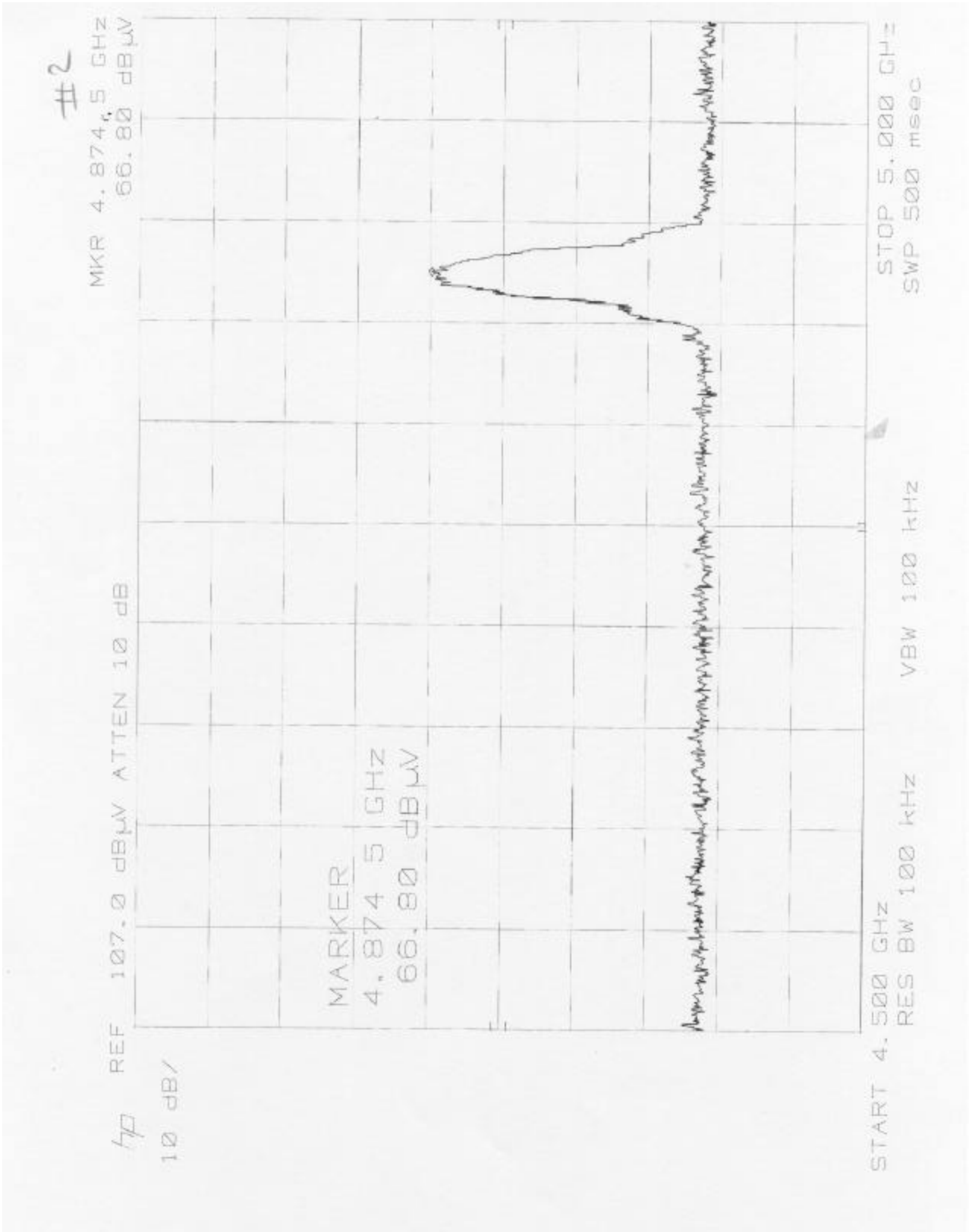

MKR 2.434 0 GHz
98.60 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
2.434 0 GHz
98.60 dBµV
START 2.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.500 GHz
SWP 500 msec

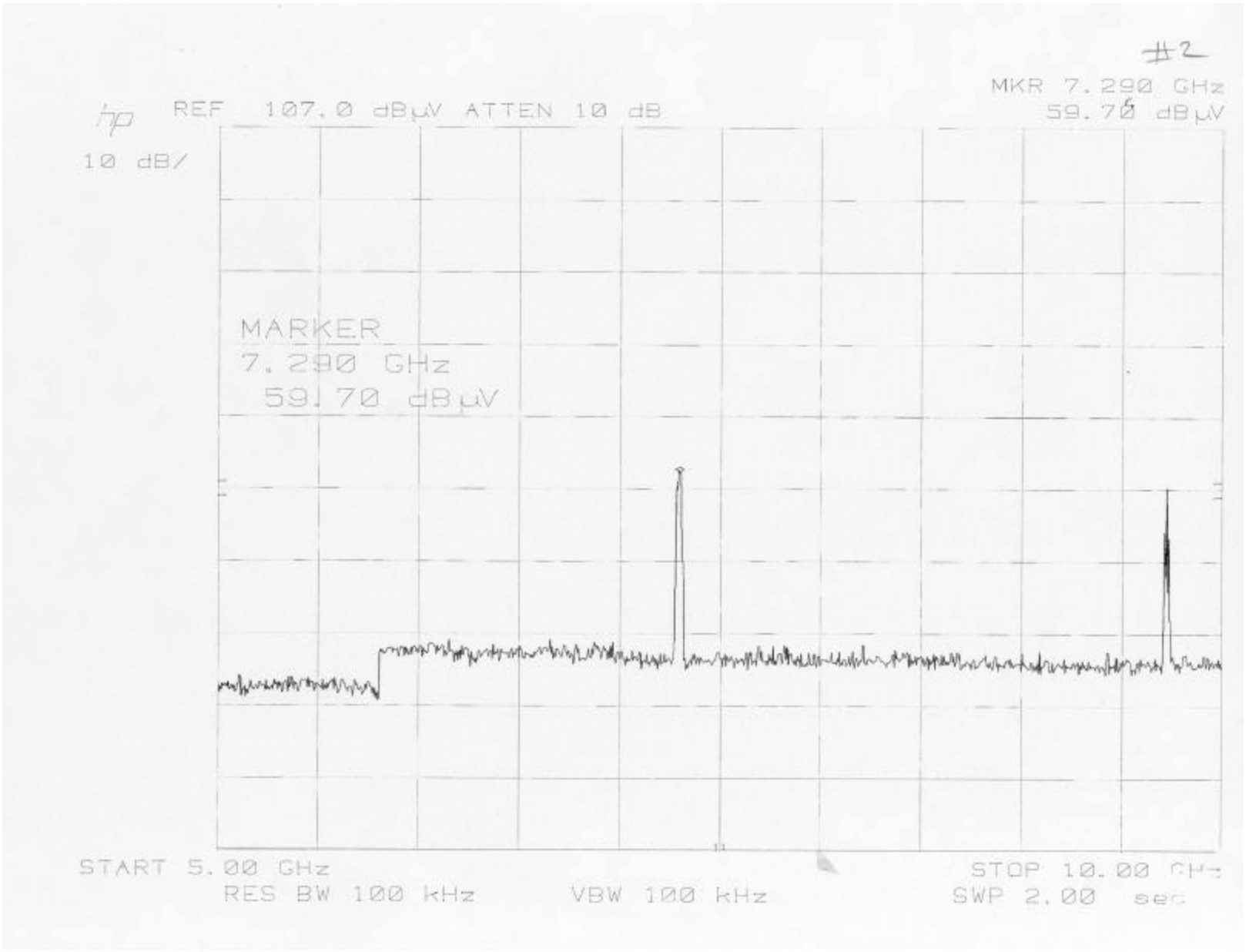

#2
MKR 2.501 0 GHz
36.10 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
2.501 0 GHz
36.10 dBµV
START 2.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.000 GHz
SWP 500 msec

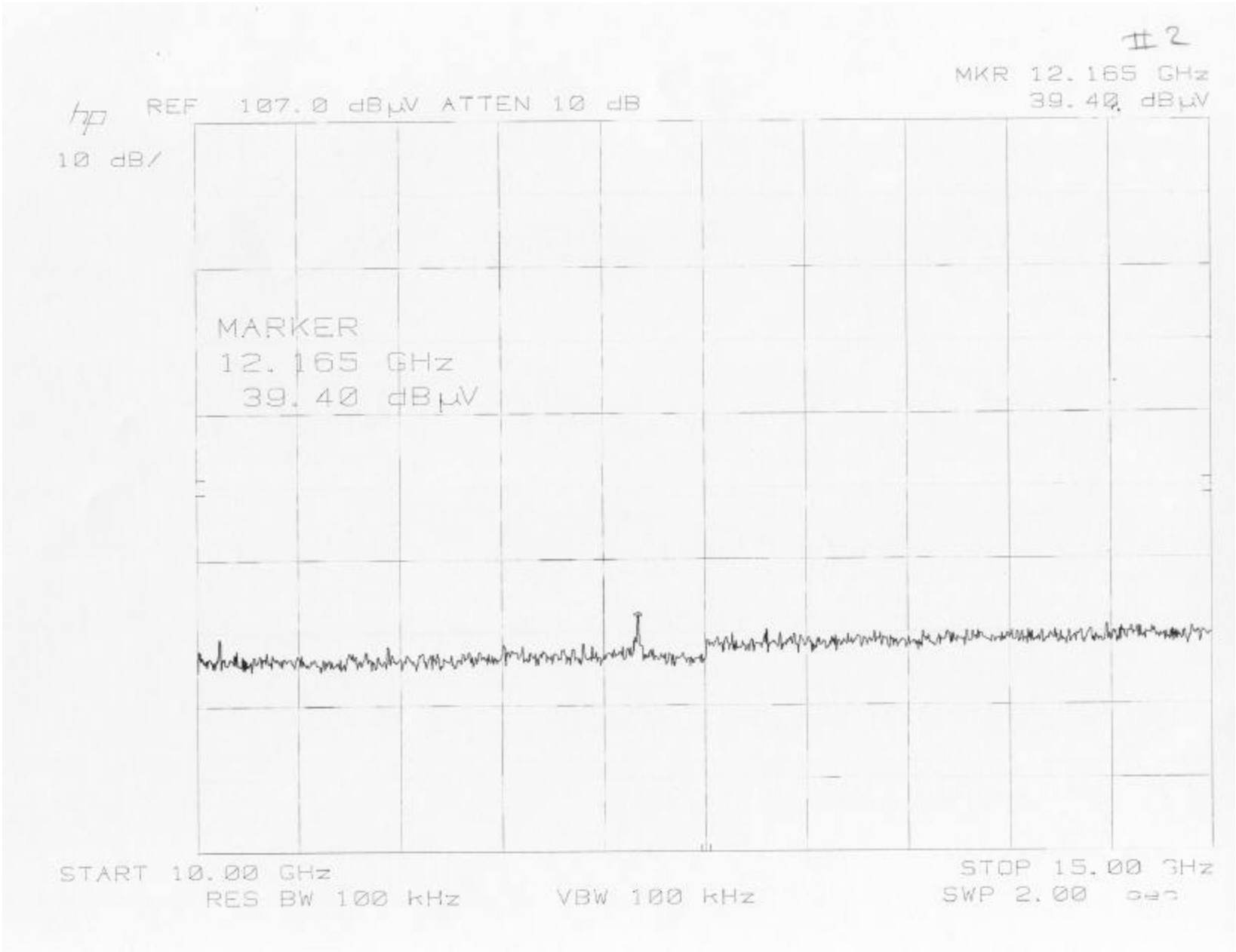

#2
MKR 3.225 0 GHz
32.70 dBμV
REF 107.0 dBμV ATTEN 10 dB
10 dB/
MARKER
3.225 0 GHz
32.70 dBμV
START 3.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.500 GHz
SWP 500 msec

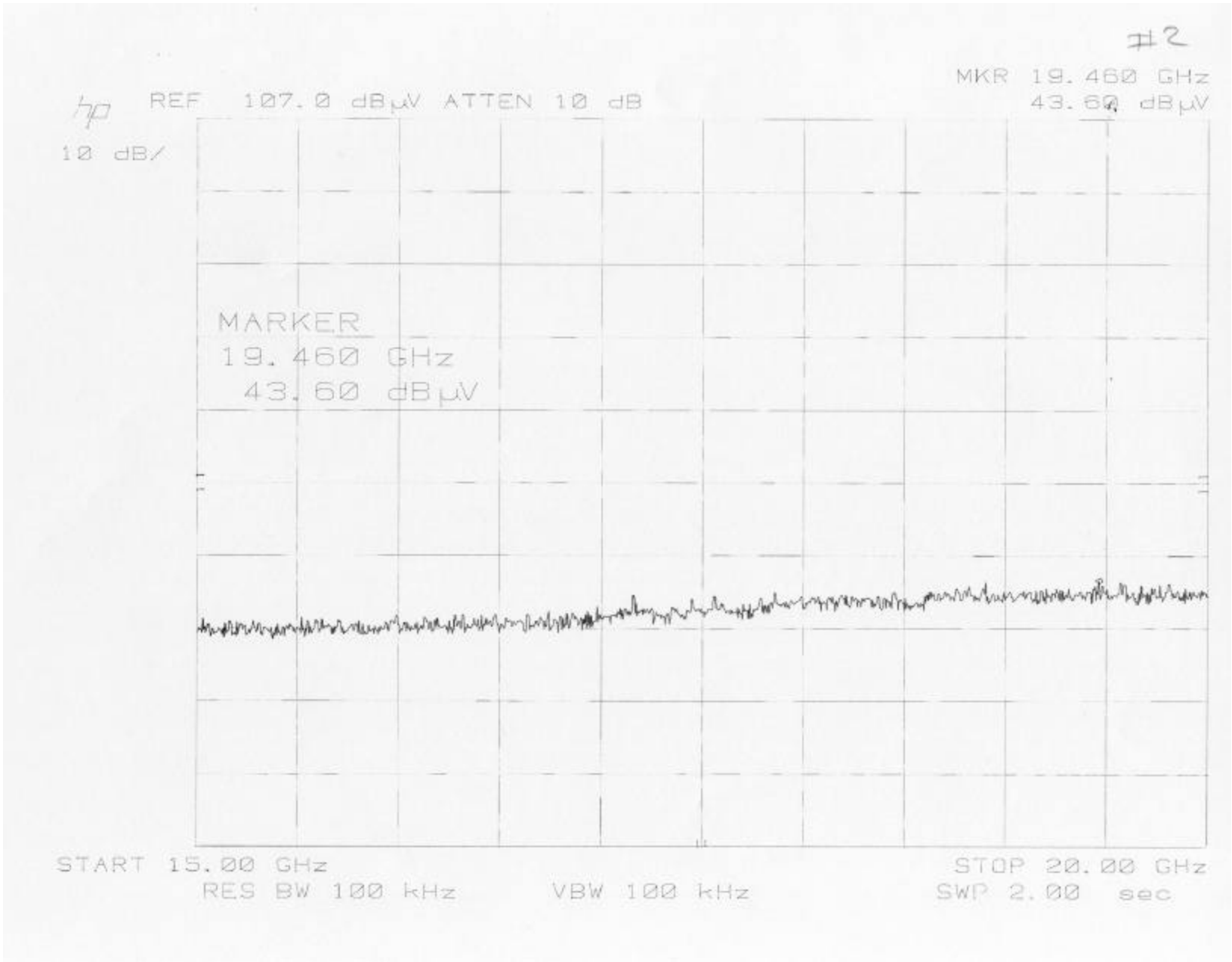

#2
MKR 3.841 0 GHz
32.70 dBμV
REF 107.0 dBμV ATTEN 10 dB
10 dB/
MARKER
3.841 0 GHz
32.70 dBμV
START 3.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 4.000 GHz
SWP 500 msec

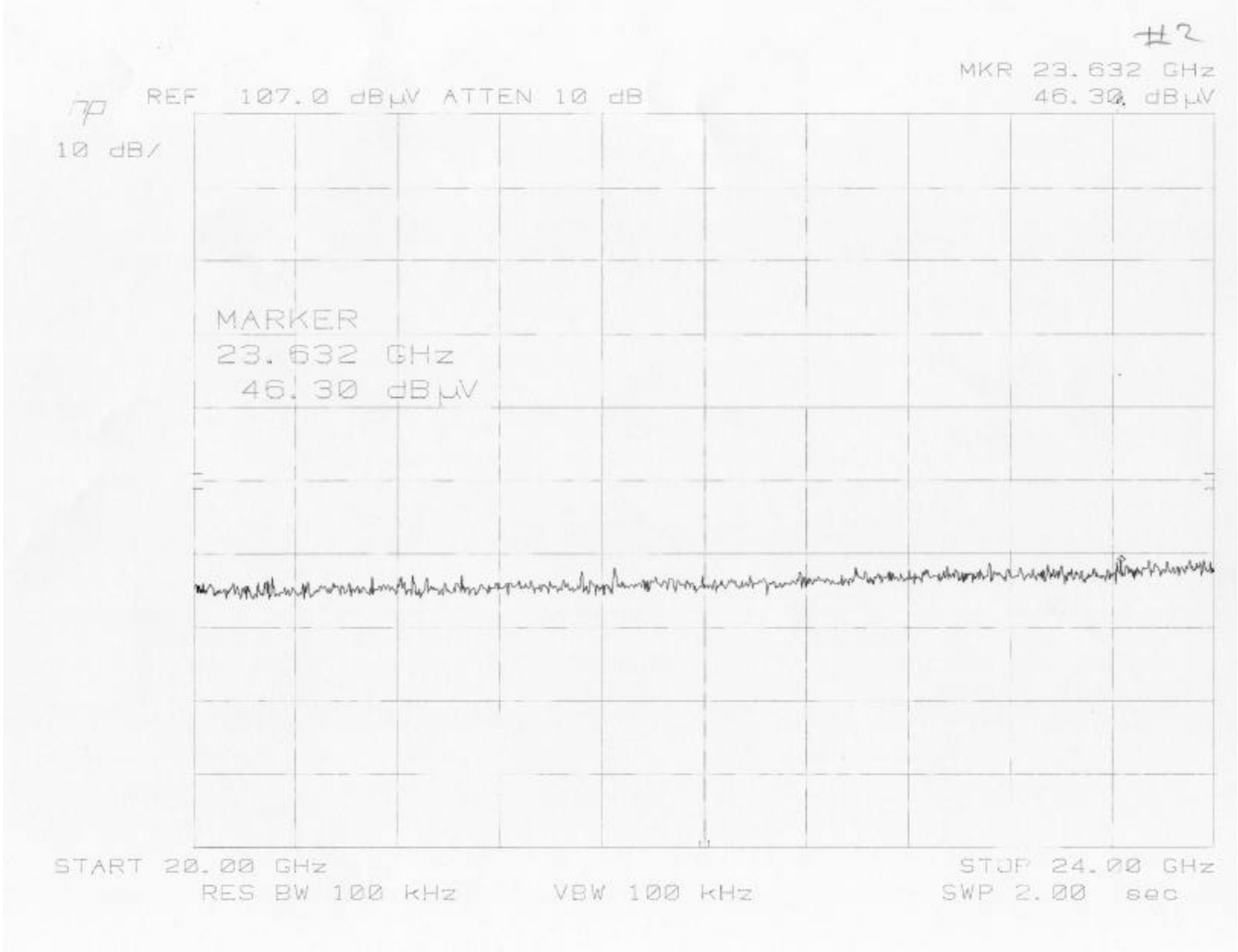

#2
MKR 4.036 5 GHz
32.20 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
4.036 5 GHz
32.20 dBµV
START 4.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 4.500 GHz
SWP 500 msec


#2
MKR 4.874 5 GHz
66.80 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
4.874 5 GHz
66.80 dBµV
START 4.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 5.000 GHz
SWP 500 msec

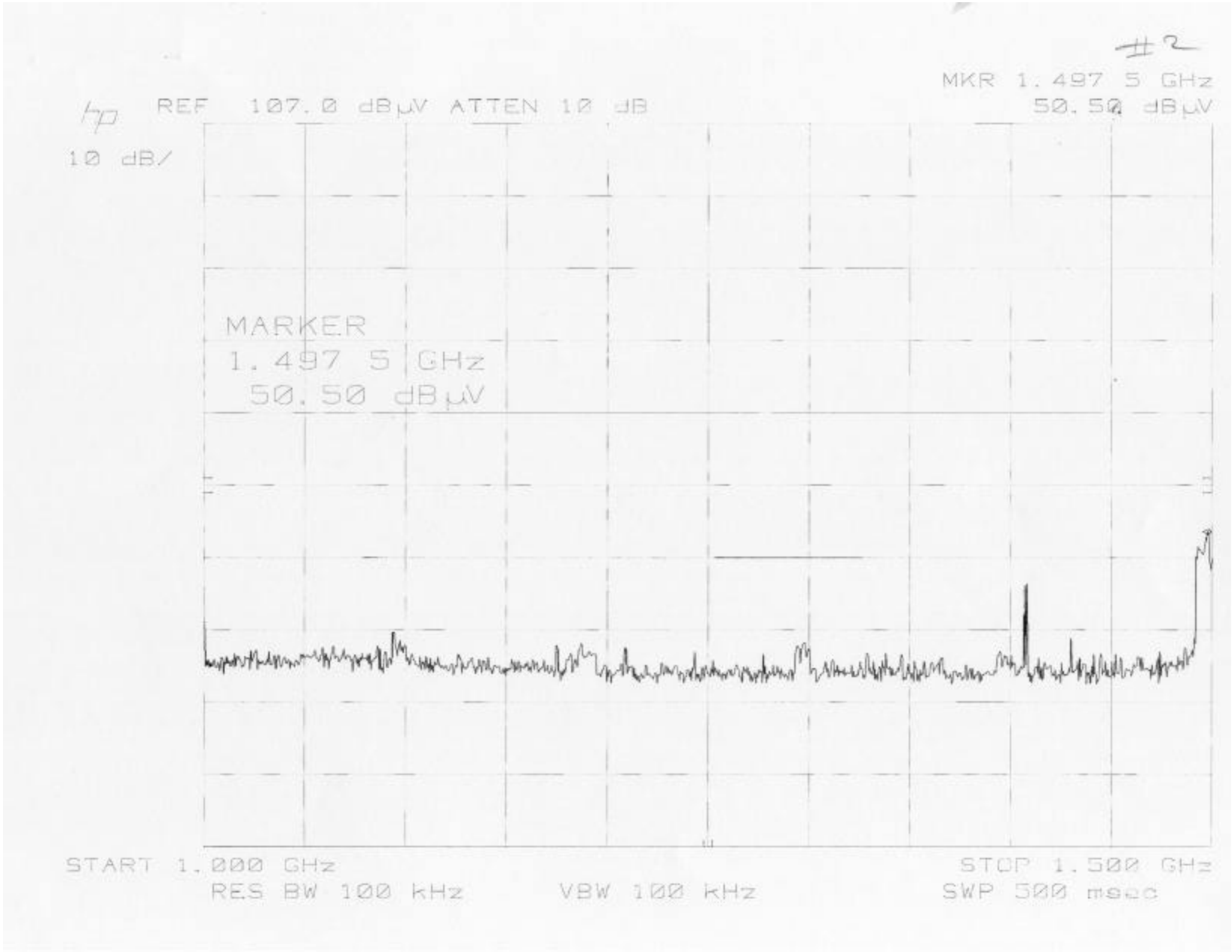

#2
MKR 7.290 GHz
59.70 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
7.290 GHz
59.70 dBµV
START 5.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 10.00 GHz
SWP 2.00 sec

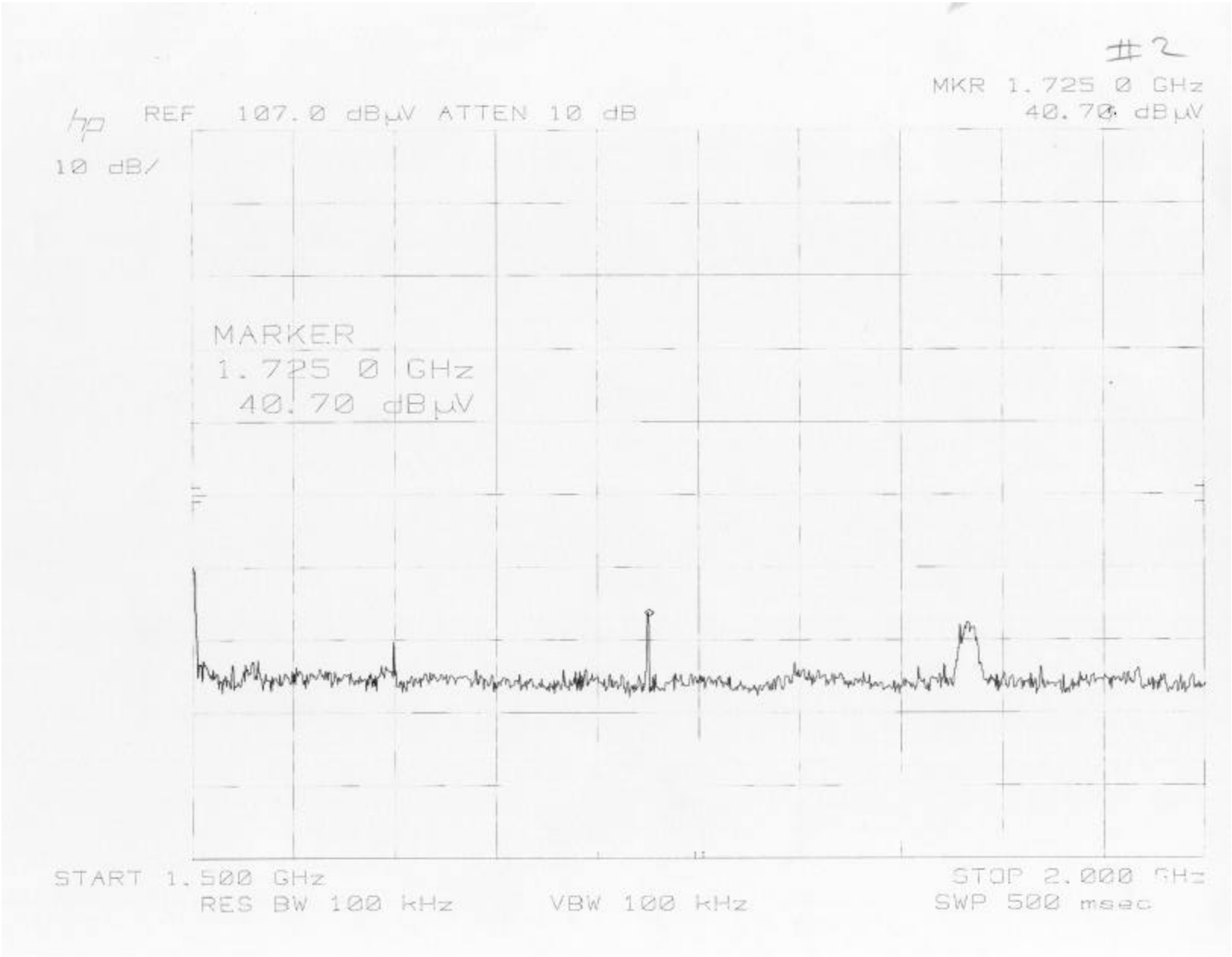

#2
MKR 12.165 GHz
39.40 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
12.165 GHz
39.40 dBµV
START 10.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 15.00 GHz
SWP 2.00 sec

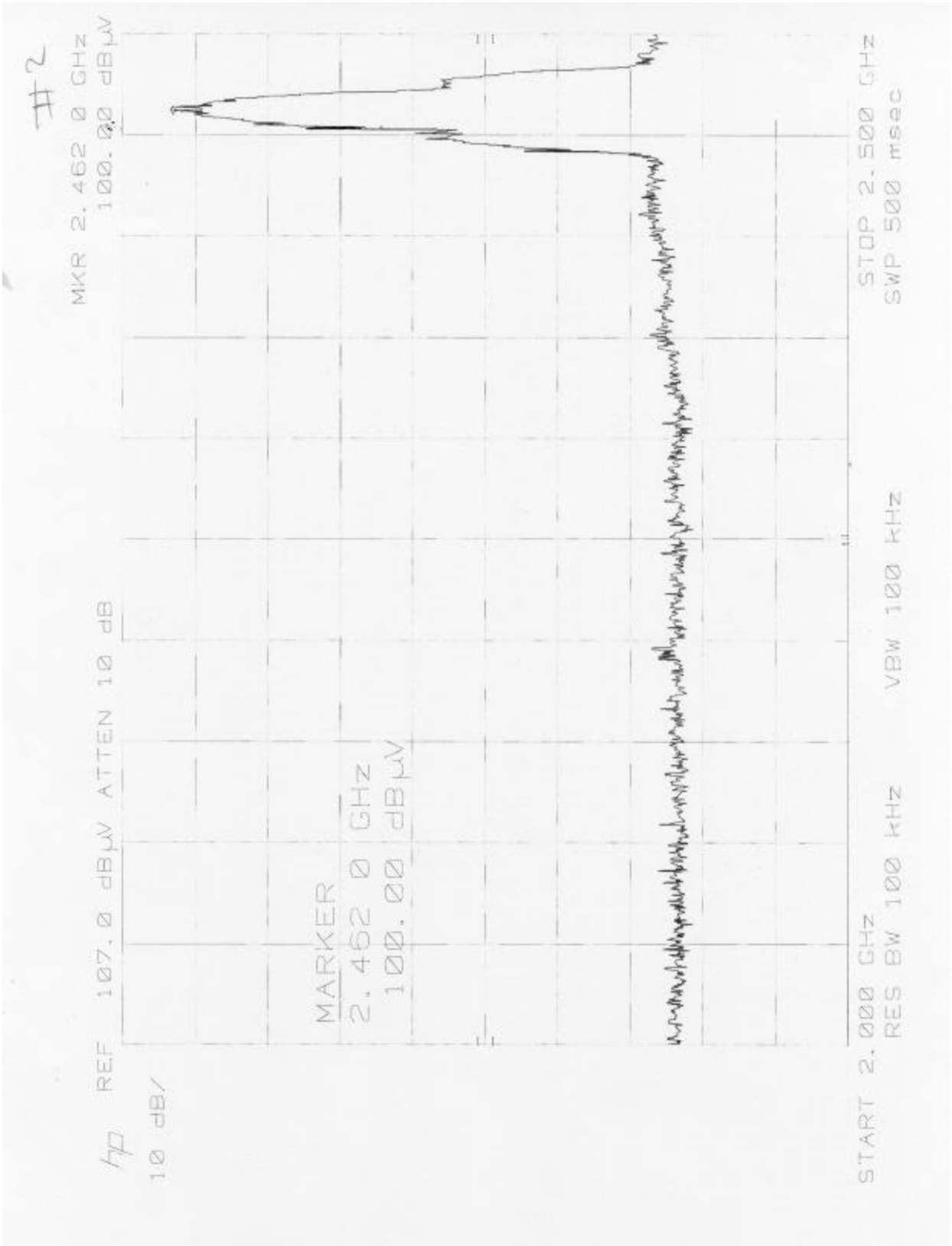

#2
MKR 19.460 GHz
43.60 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
19.460 GHz
43.60 dBµV
START 15.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 20.00 GHz
SWP 2.00 sec

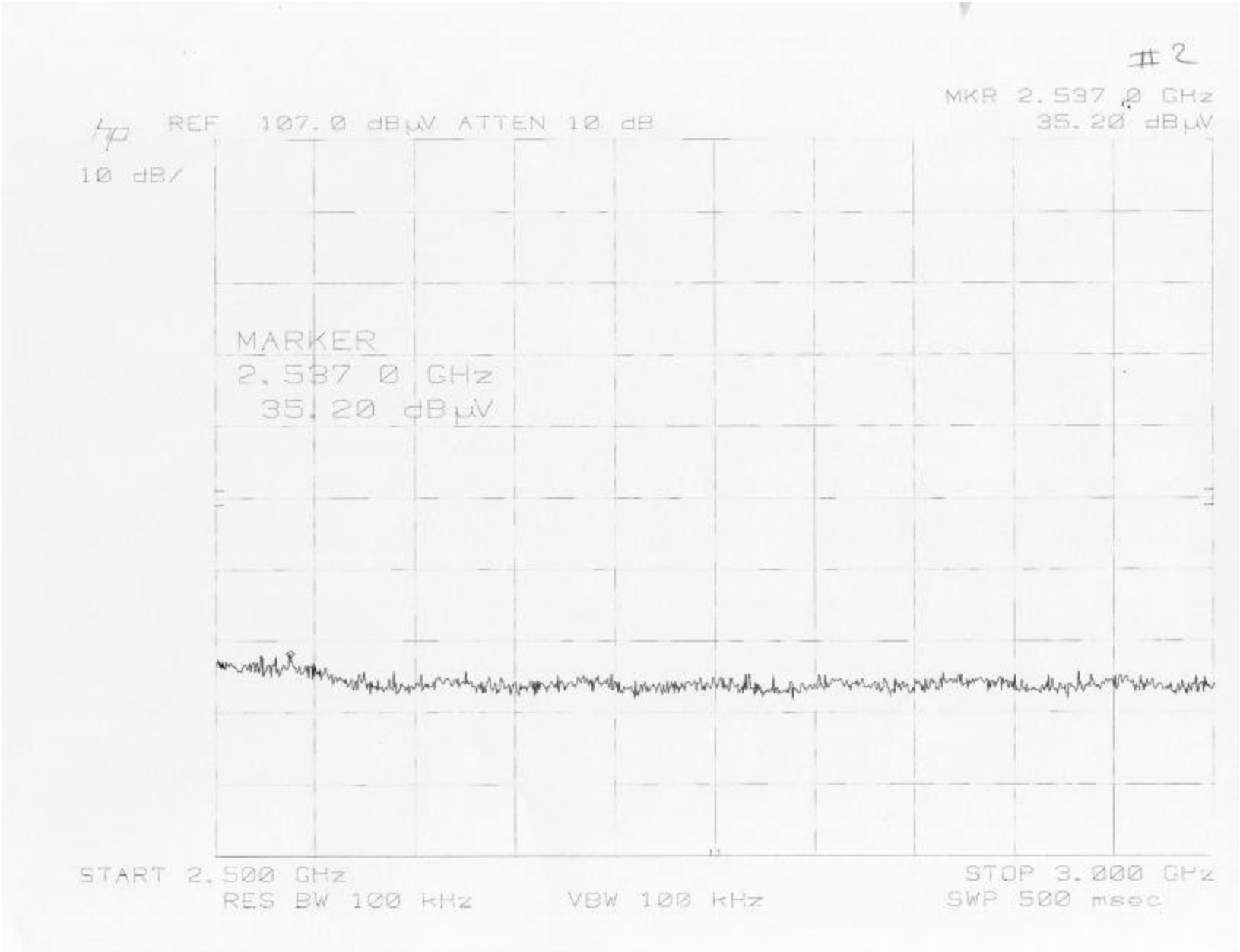

#2
MKR 23.632 GHz
REF 107.0 dBμV ATTEN 10 dB
46.30 dBμV
10 dB/
MARKER
23.632 GHz
46.30 dBμV
START 20.00 GHz
STOP 24.00 GHz
RES BW 100 kHz
VBW 100 kHz
SWP 2.00 sec

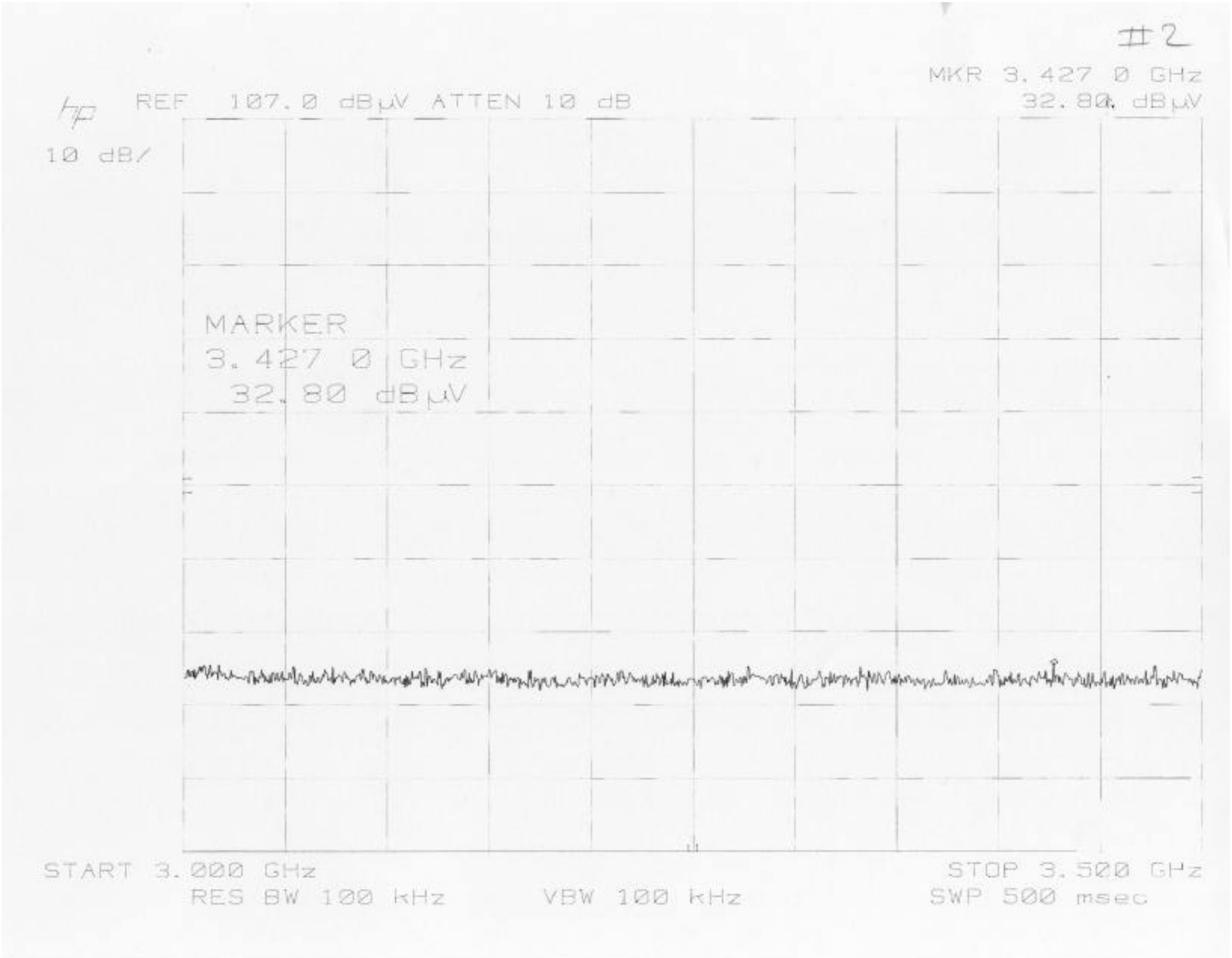
Radiated Emissions Plots
(1 - 24) GHz - Horizontal Polarization
Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X
Channel 11

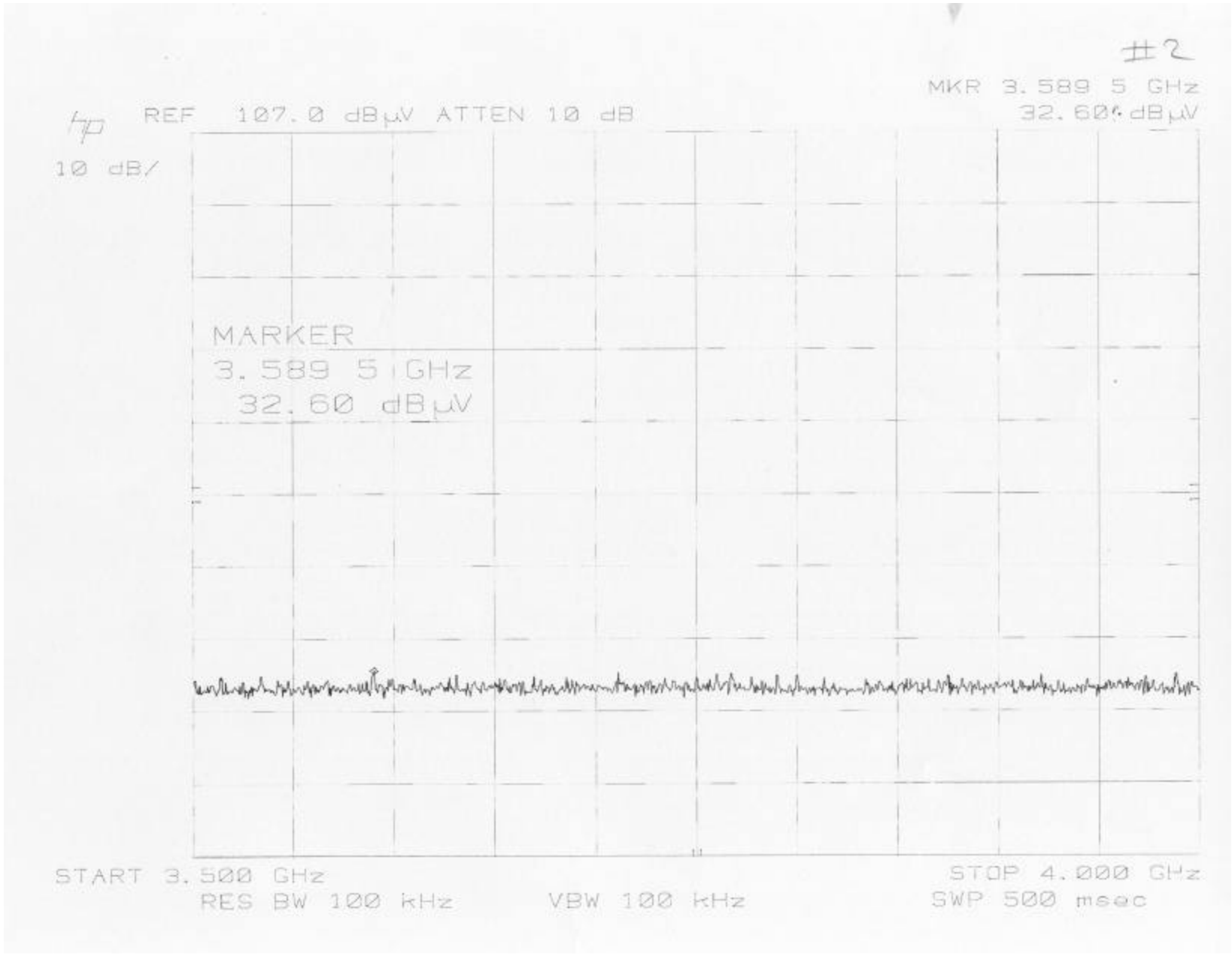

#2
MKR 1.497 5 GHz
50.50 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
1.497 5 GHz
50.50 dBµV
START 1.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 1.500 GHz
SWP 500 msec

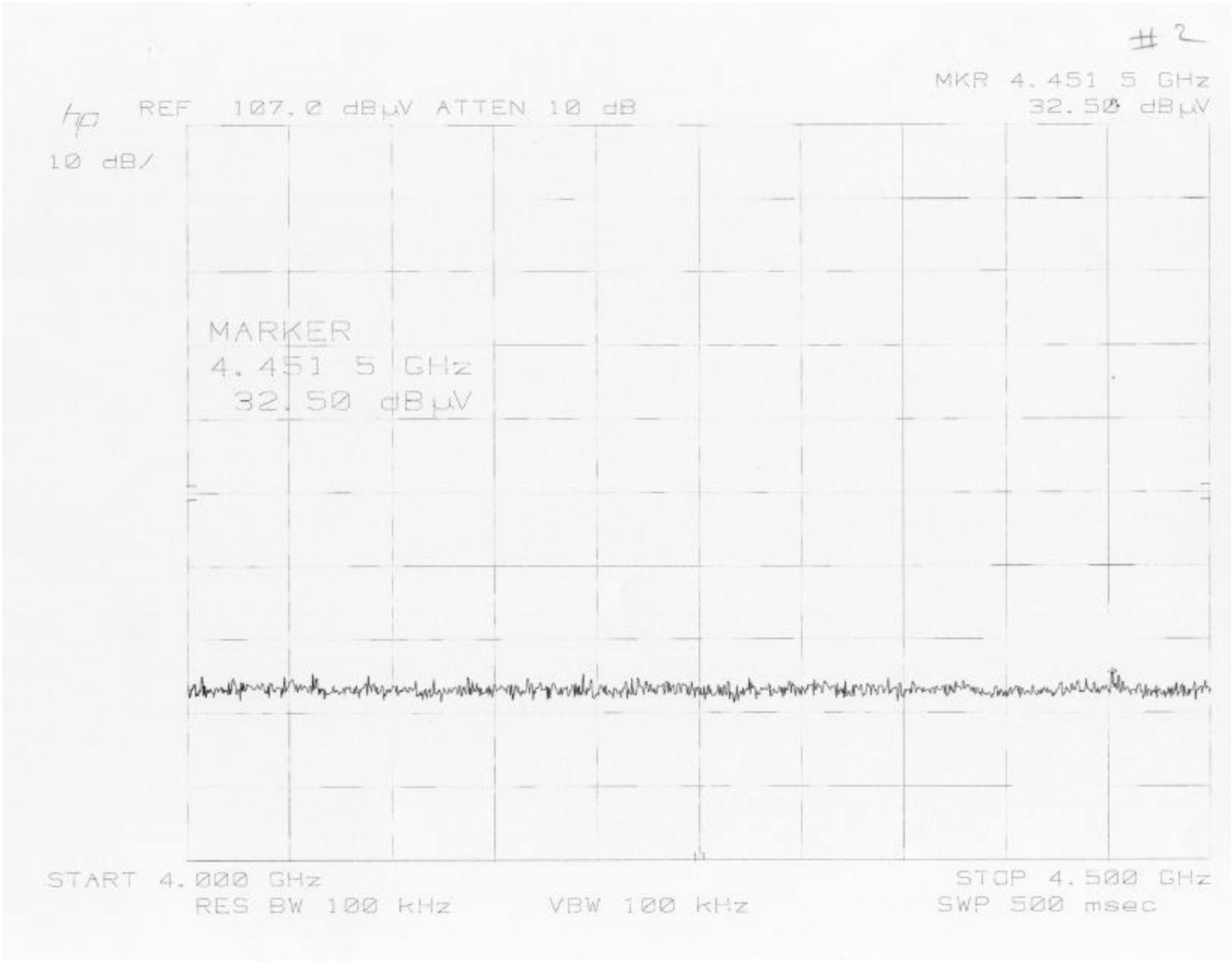

#2
MKR 1.725 0 GHz
40.70 dBµV
hp REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
1.725 0 GHz
40.70 dBµV
START 1.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.000 GHz
SWP 500 msec

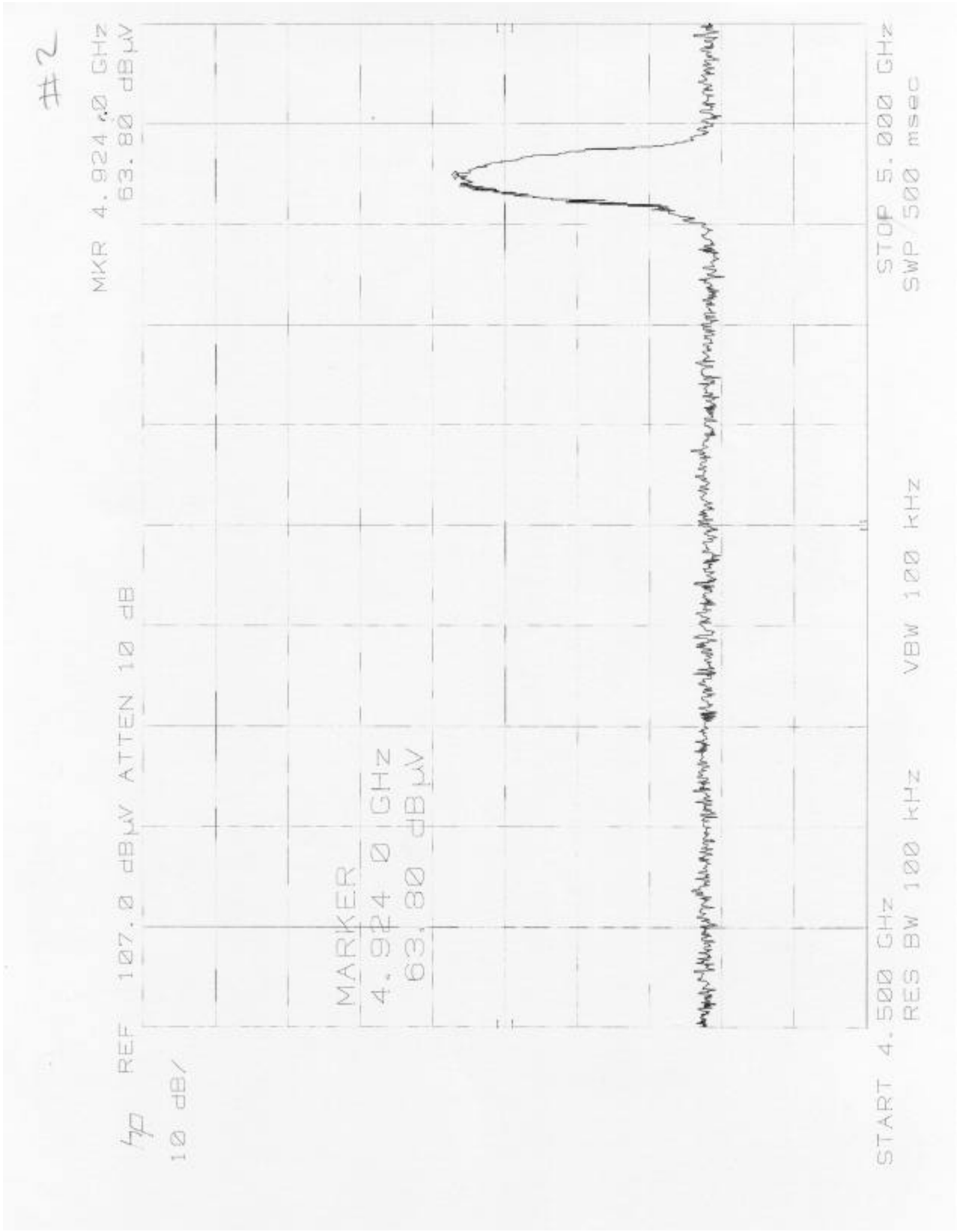

#2
MKR 2.462 0 GHz
100.00 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
2.462 0 GHz
100.00 dBµV
START 2.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.500 GHz
SWP 500 msec


#2
MKR 2.537 0 GHz
35.20 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
2.537 0 GHz
35.20 dBµV
START 2.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.000 GHz
SWP 500 msec

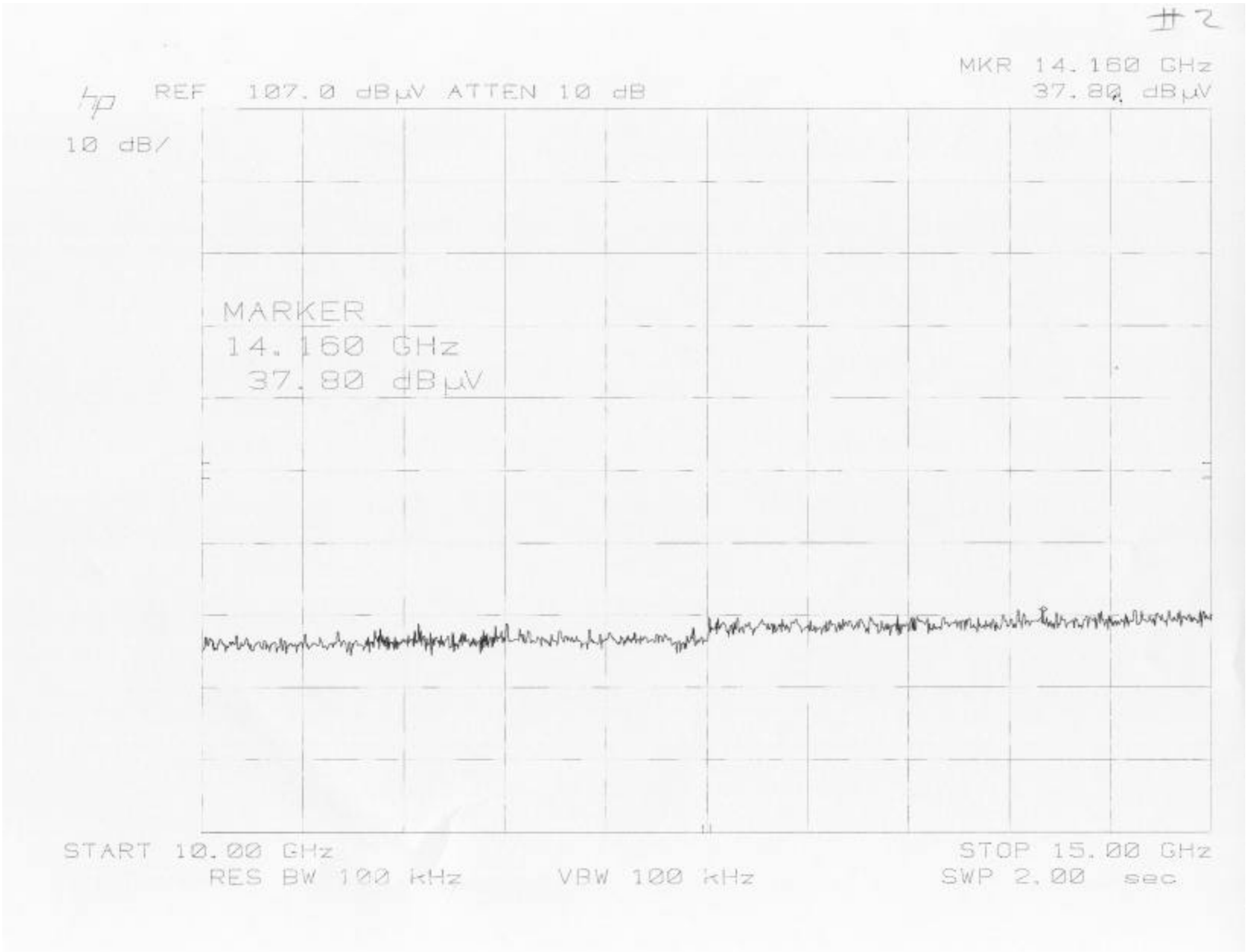

#2
MKR 3.427 0 GHz
32.80 dBμV
REF 107.0 dBμV ATTEN 10 dB
10 dB/
MARKER
3.427 0 GHz
32.80 dBμV
START 3.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.500 GHz
SWP 500 msec

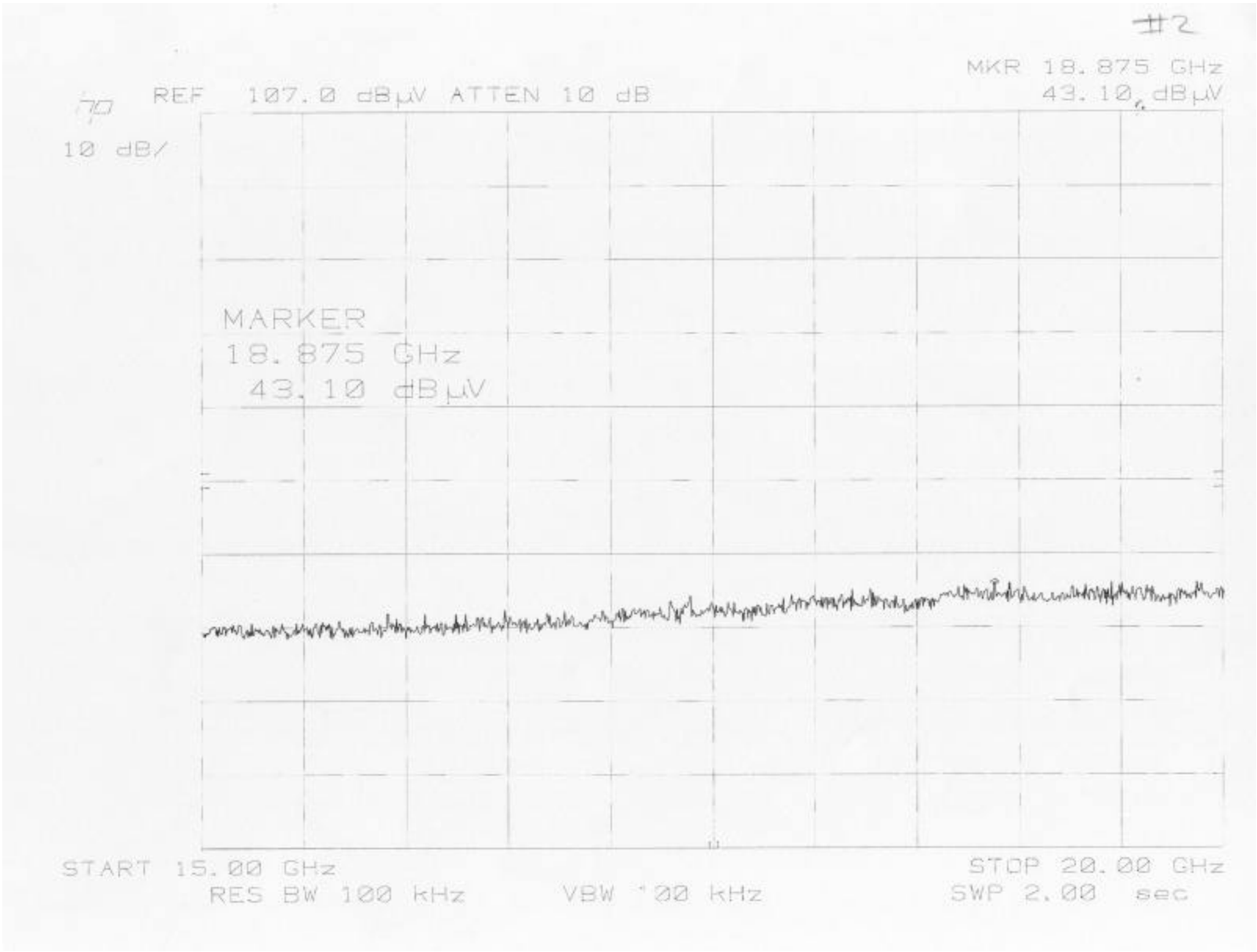

#2
MKR 3.589 5 GHz
32.60 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
3.589 5 GHz
32.60 dBµV
START 3.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 4.000 GHz
SWP 500 msec

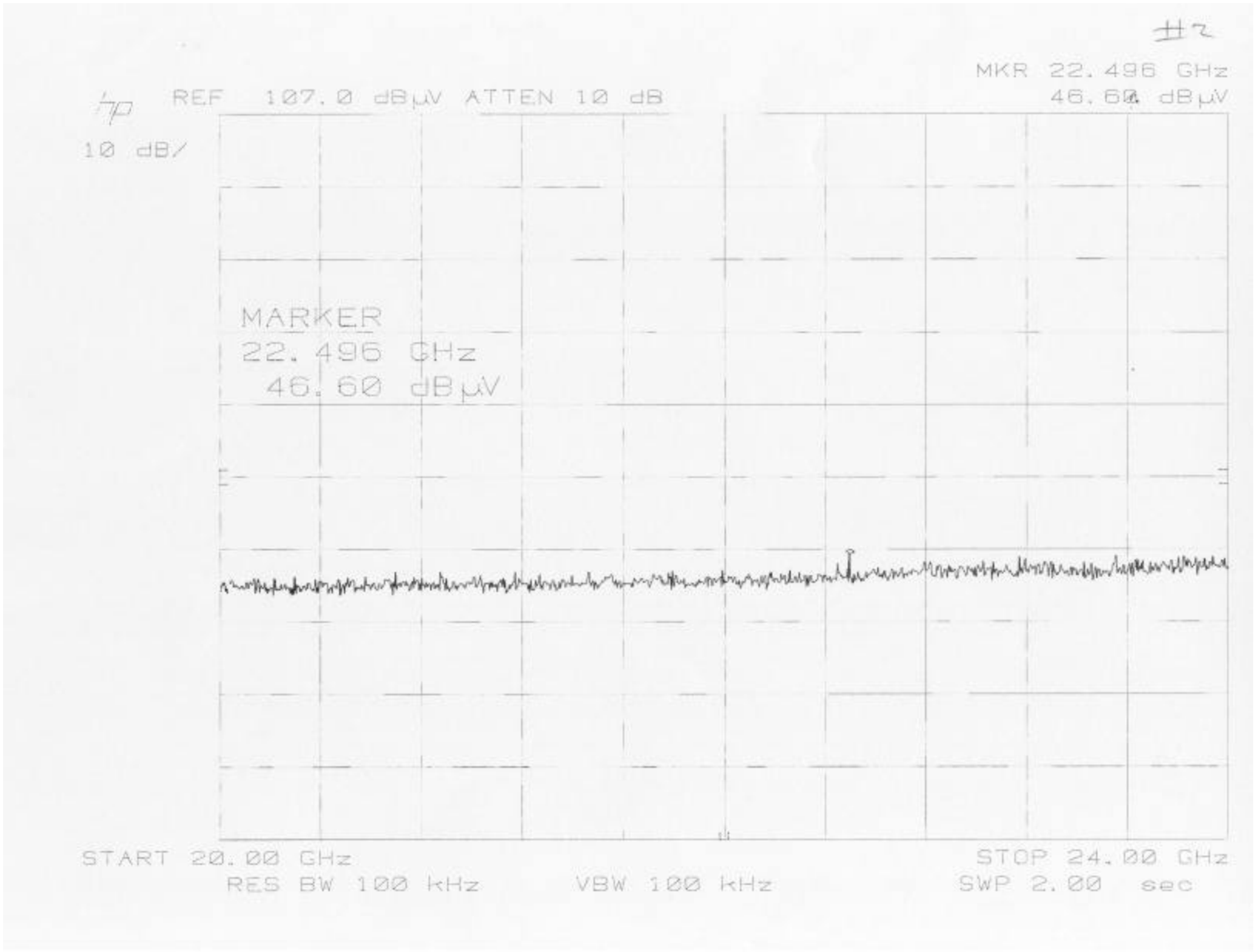

#2
MKR 4.451 5 GHz
32.50 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
4.451 5 GHz
32.50 dBµV
START 4.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 4.500 GHz
SWP 500 msec


#2
MKR 4.924 Ø GHz
63.80 dBµV
REF 107.Ø dBµV ATTEN 10 dB
10 dB/
MARKER
4.924 Ø GHz
63.80 dBµV
START 4.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 5.000 GHz
SWP 500 msec

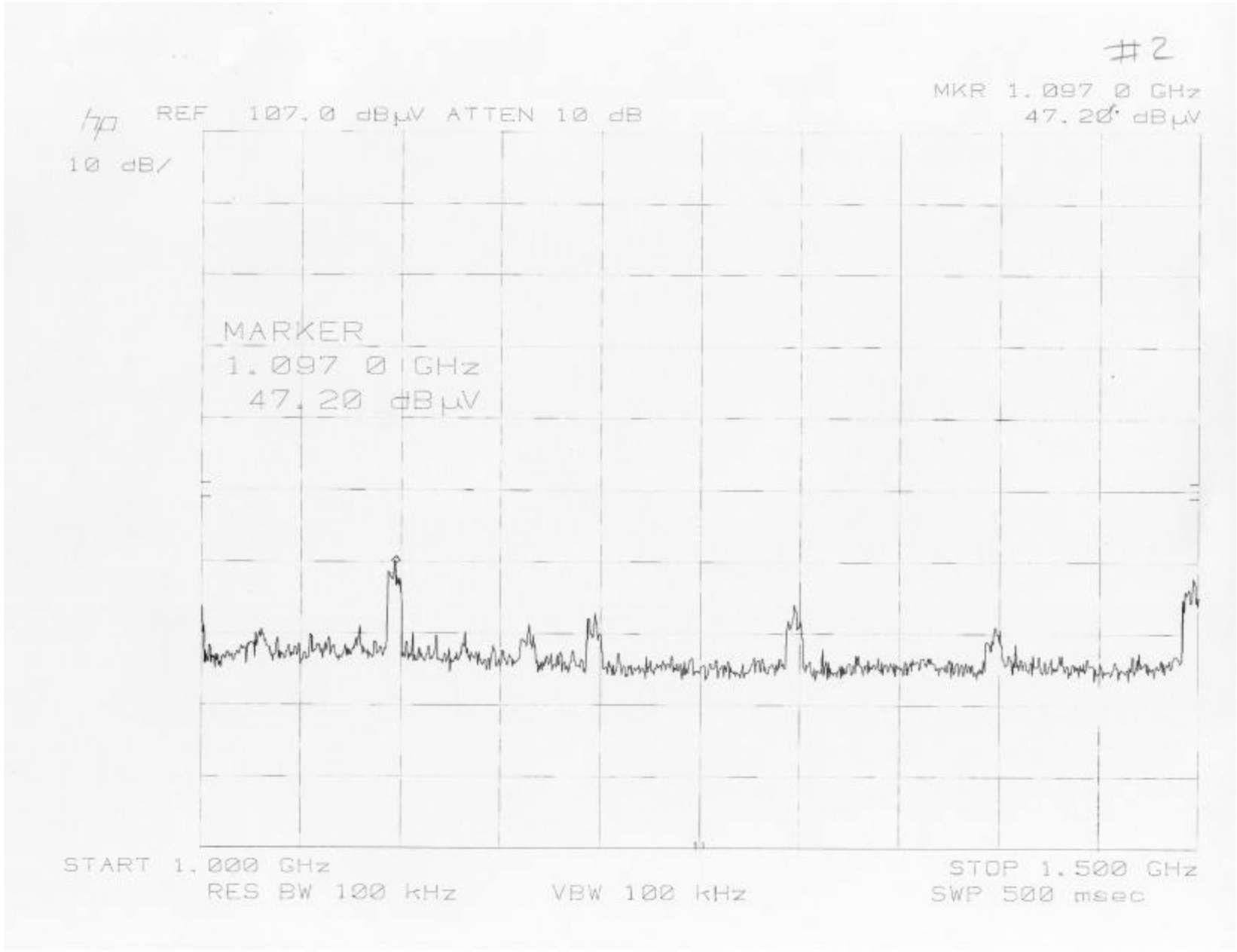
#2
MKR 7.365 GHz
51.00 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
7.365 GHz
51.00 dBµV
START 5.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 10.00 GHz
SWP 2.00 sec

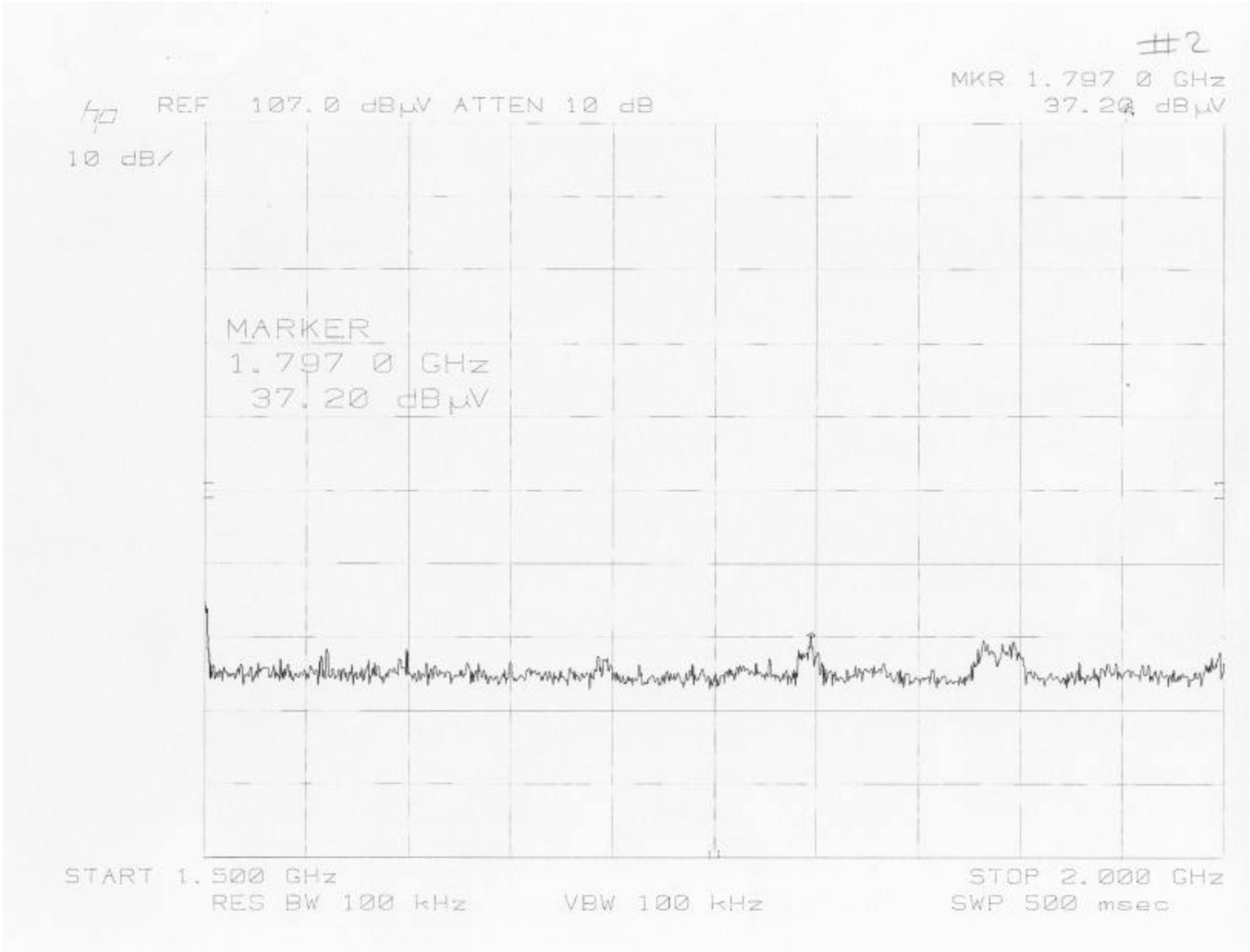

#2
MKR 14.160 GHz
REF 107.0 dBμV ATTEN 10 dB
37.80 dBμV
10 dB/
MARKER
14.160 GHz
37.80 dBμV
START 10.00 GHz
STOP 15.00 GHz
RES BW 100 kHz
VBW 100 kHz
SWP 2.00 sec

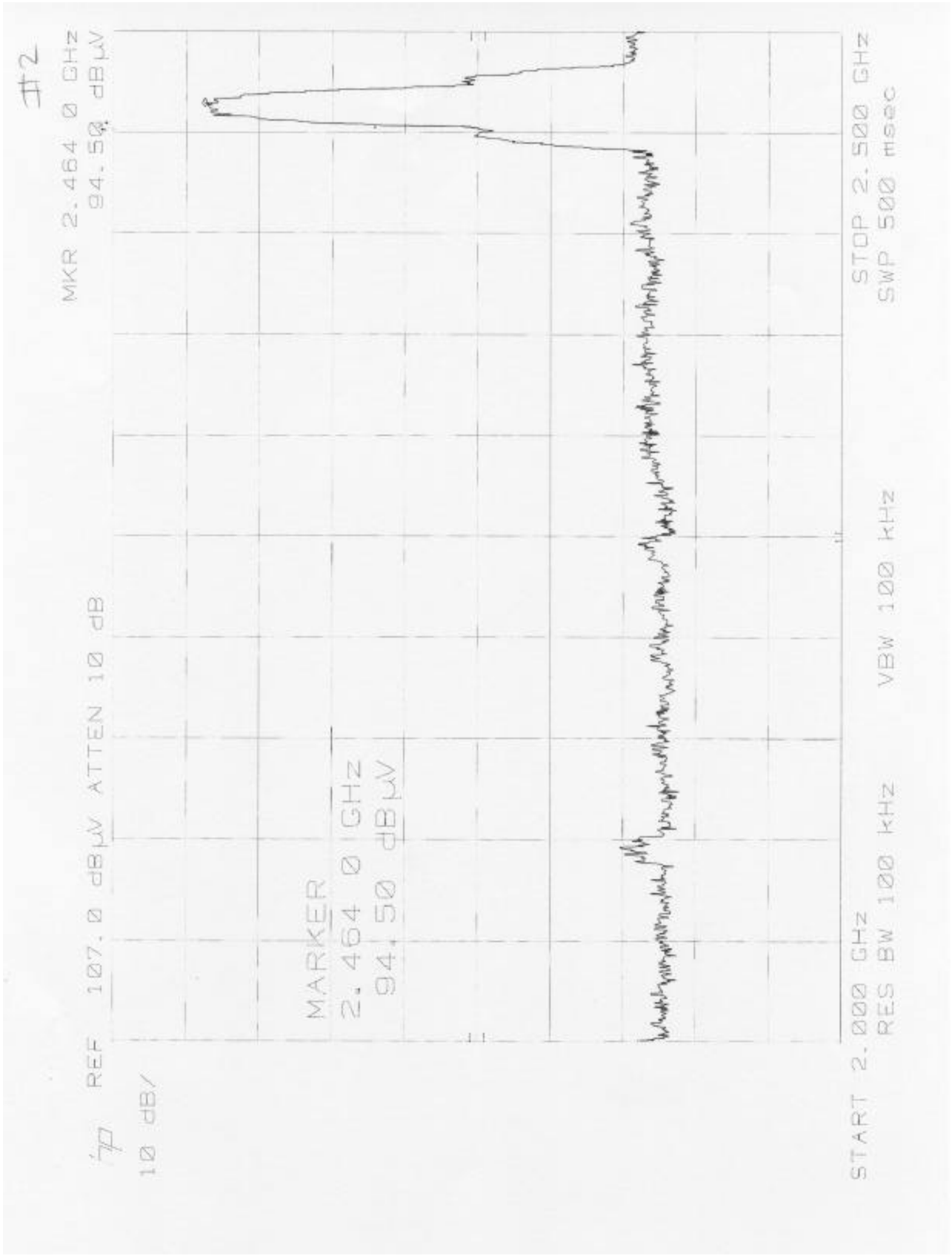

#2
MKR 18.875 GHz
43.10 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
18.875 GHz
43.10 dBµV
START 15.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 20.00 GHz
SWP 2.00 sec

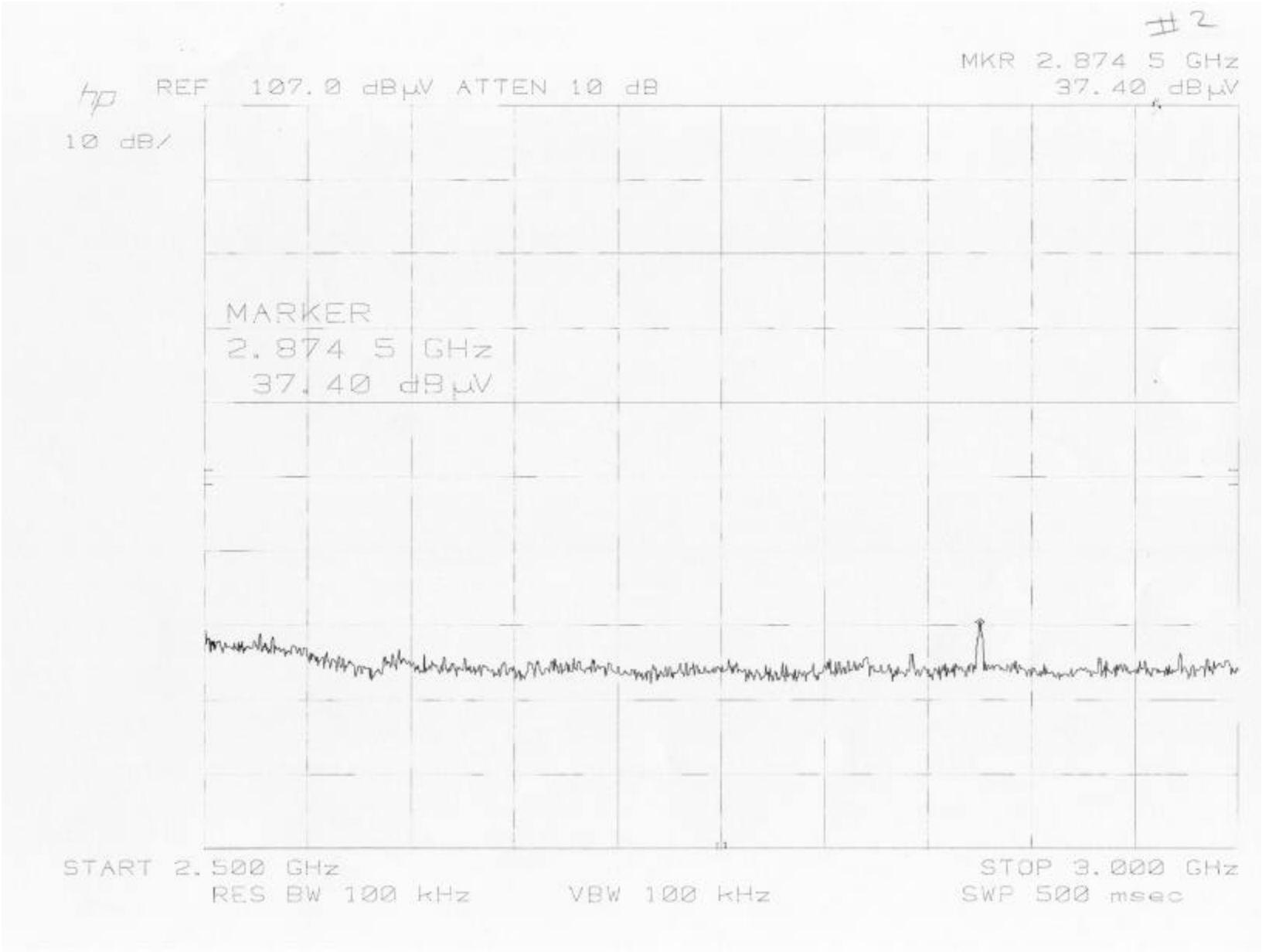

#2
MKR 22.496 GHz
46.60 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
22.496 GHz
46.60 dBµV
START 20.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 24.00 GHz
SWP 2.00 sec

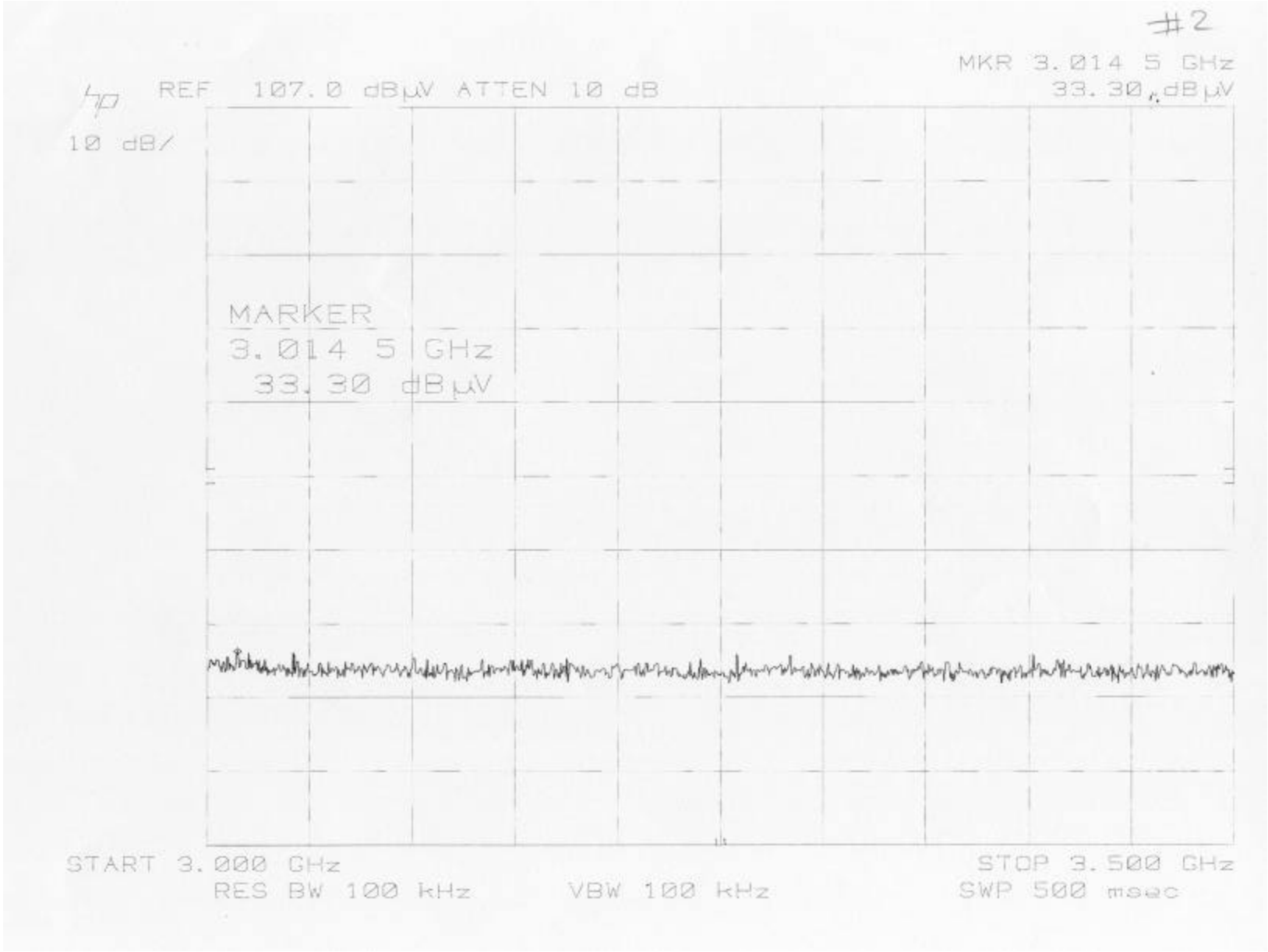
Radiated Emissions Plots
(1 - 24) GHz - Vertical Polarization
Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X
Channel 11

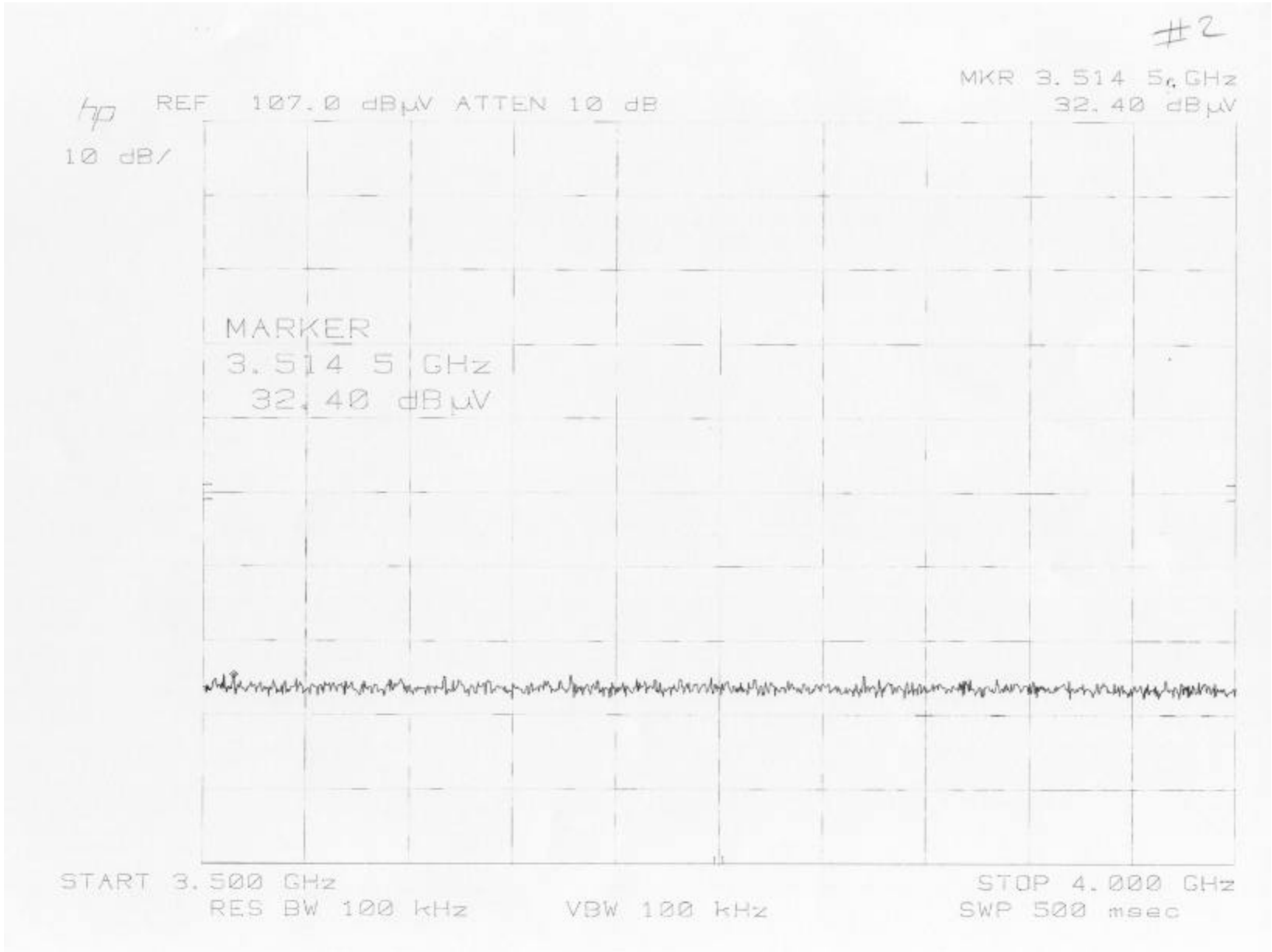

#2
MKR 1.097 0 GHz
47.20 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
1.097 0 GHz
47.20 dBµV
START 1.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 1.500 GHz
SWP 500 msec

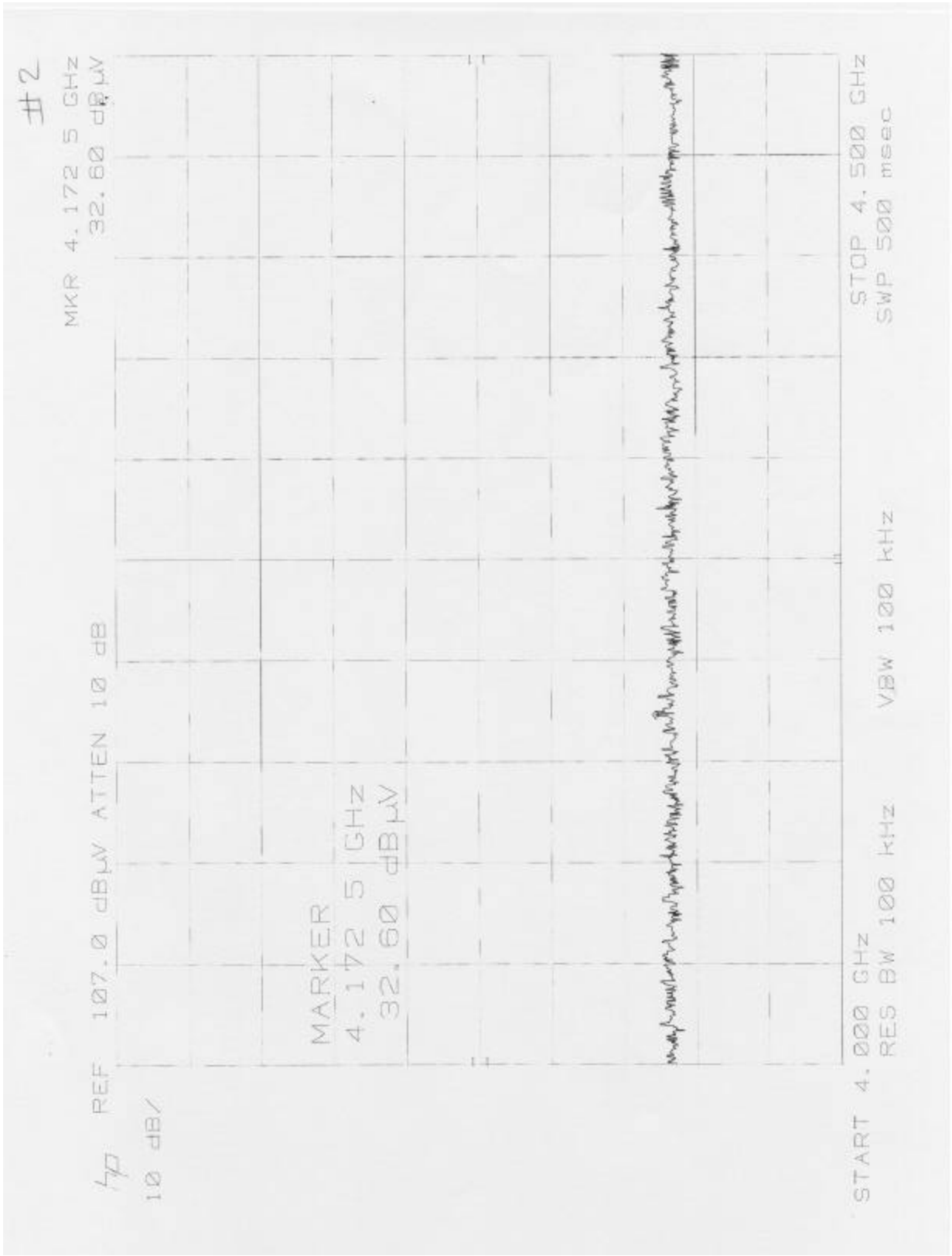

#2
MKR 1.797 0 GHz
37.20 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
1.797 0 GHz
37.20 dBµV
START 1.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.000 GHz
SWP 500 msec

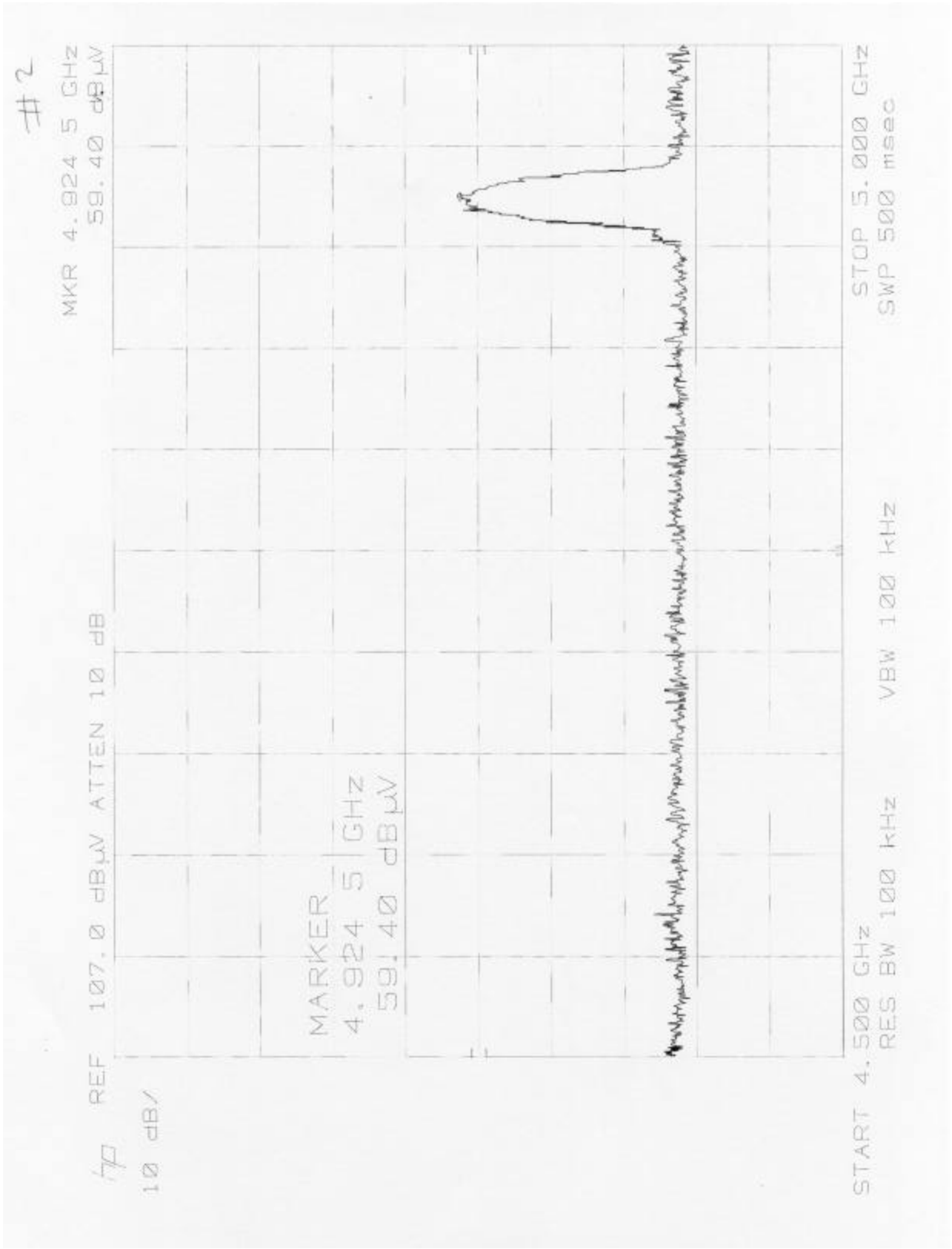

#2
MKR 2.464 0 GHz
94.50 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
2.464 0 GHz
94.50 dBµV
START 2.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.500 GHz
SWP 500 msec

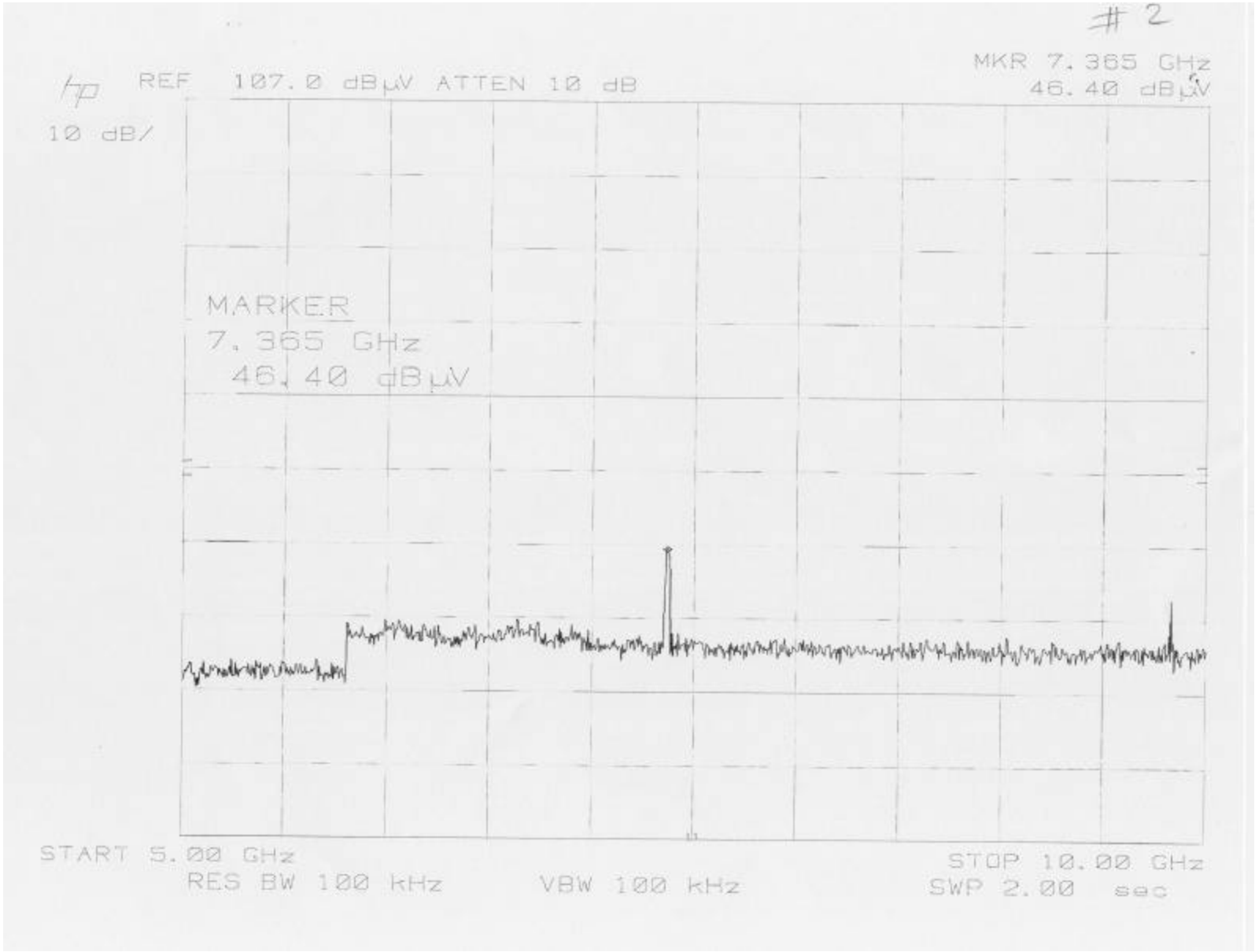

#2
MKR 2.874 5 GHz
37.40 dBμV
REF 107.0 dBμV ATTEN 10 dB
10 dB/
MARKER
2.874 5 GHz
37.40 dBμV
START 2.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.000 GHz
SWP 500 msec

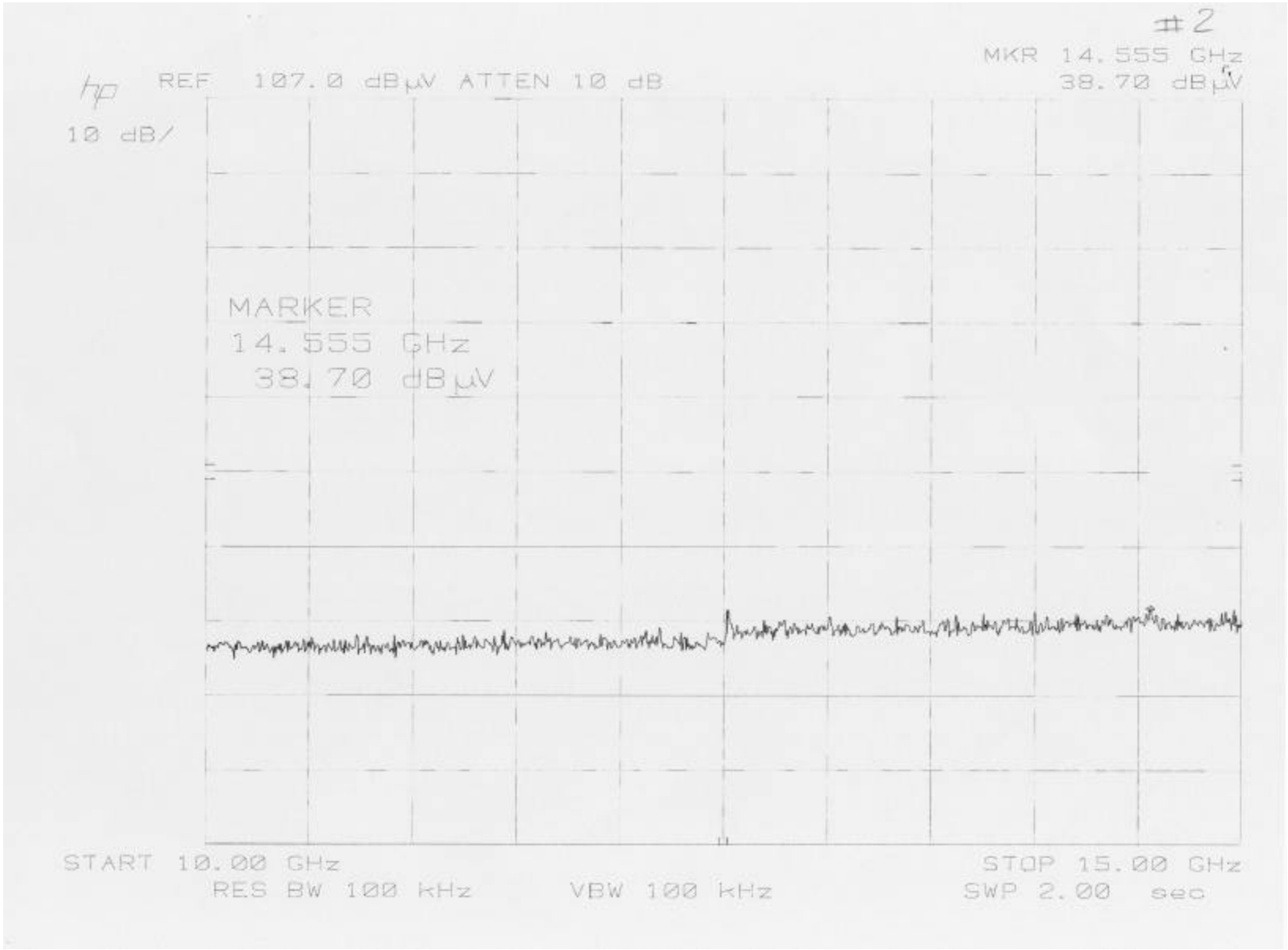

#2
MKR 3.014 5 GHz
33.30 dBμV
REF 107.0 dBμV ATTEN 10 dB
10 dB/
MARKER
3.014 5 GHz
33.30 dBμV
START 3.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.500 GHz
SWP 500 msec

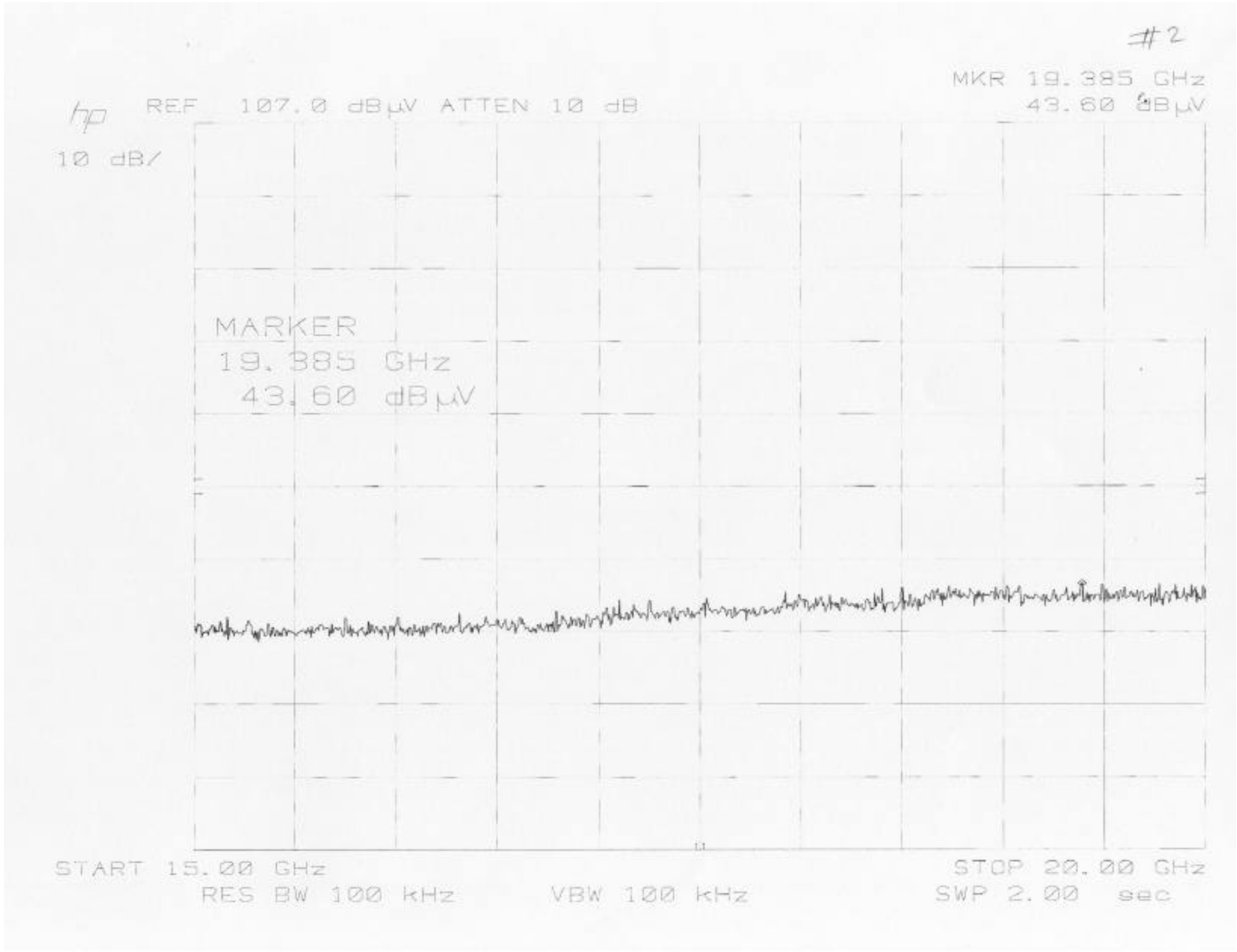

#2
MKR 3.514 5 GHz
32.40 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
3.514 5 GHz
32.40 dBµV
START 3.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 4.000 GHz
SWP 500 msec


#2
MKR 4.172 5 GHz
32.60 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
4.172 5 GHz
32.60 dBµV
START 4.000 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 4.500 GHz
SWP 500 msec


#2
MKR 4.924 5 GHz
59.40 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
4.924 5 GHz
59.40 dBµV
START 4.500 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 5.000 GHz
SWP 500 msec

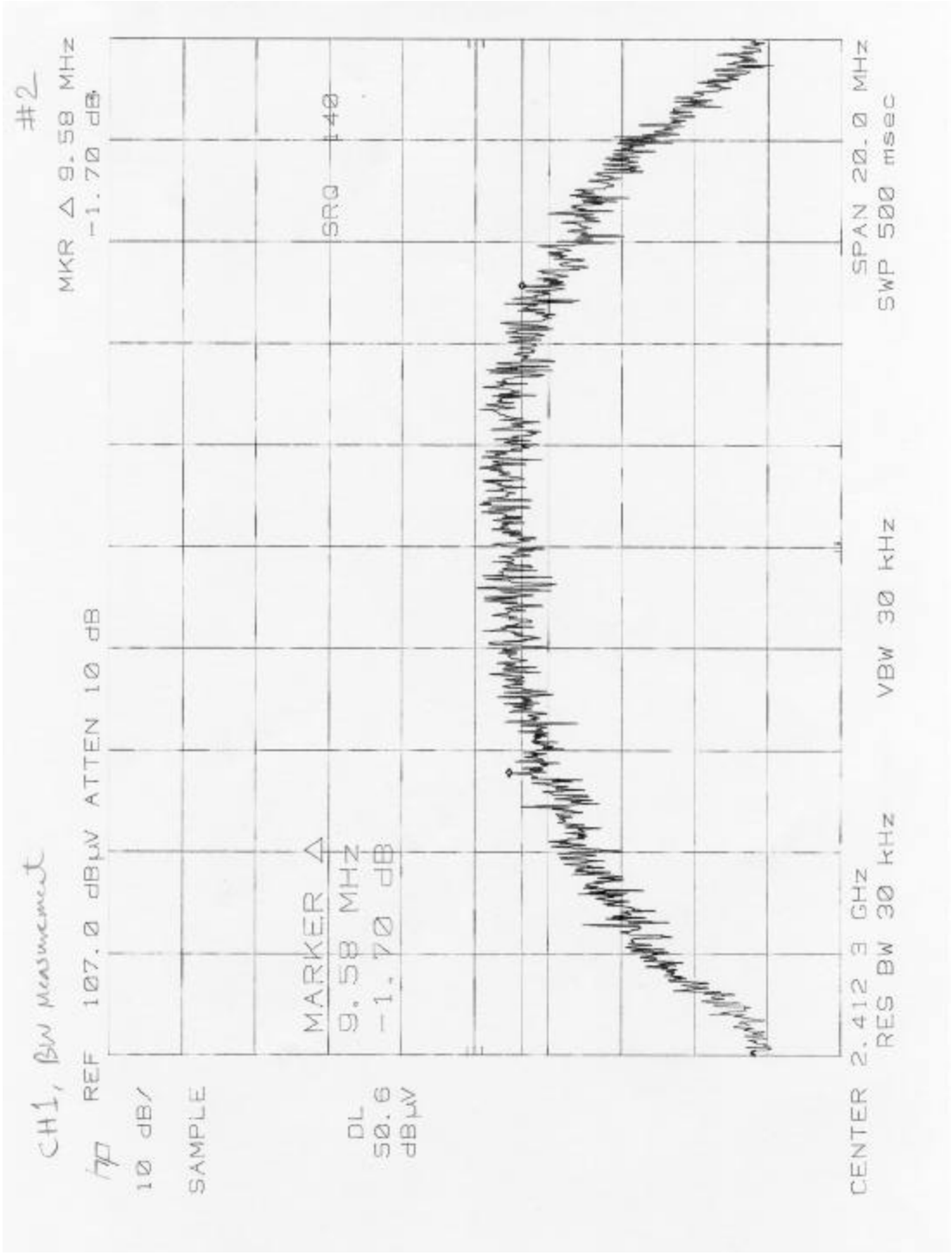

#2
REF 107.0 dBμV ATTEN 10 dB
MKR 7.365 GHz
46.40 dBμV
10 dB/
MARKER
7.365 GHz
46.40 dBμV
START 5.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 10.00 GHz
SWP 2.00 sec


#2
MKR 14.555 GHz
38.70 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
14.555 GHz
38.70 dBµV
START 10.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 15.00 GHz
SWP 2.00 sec

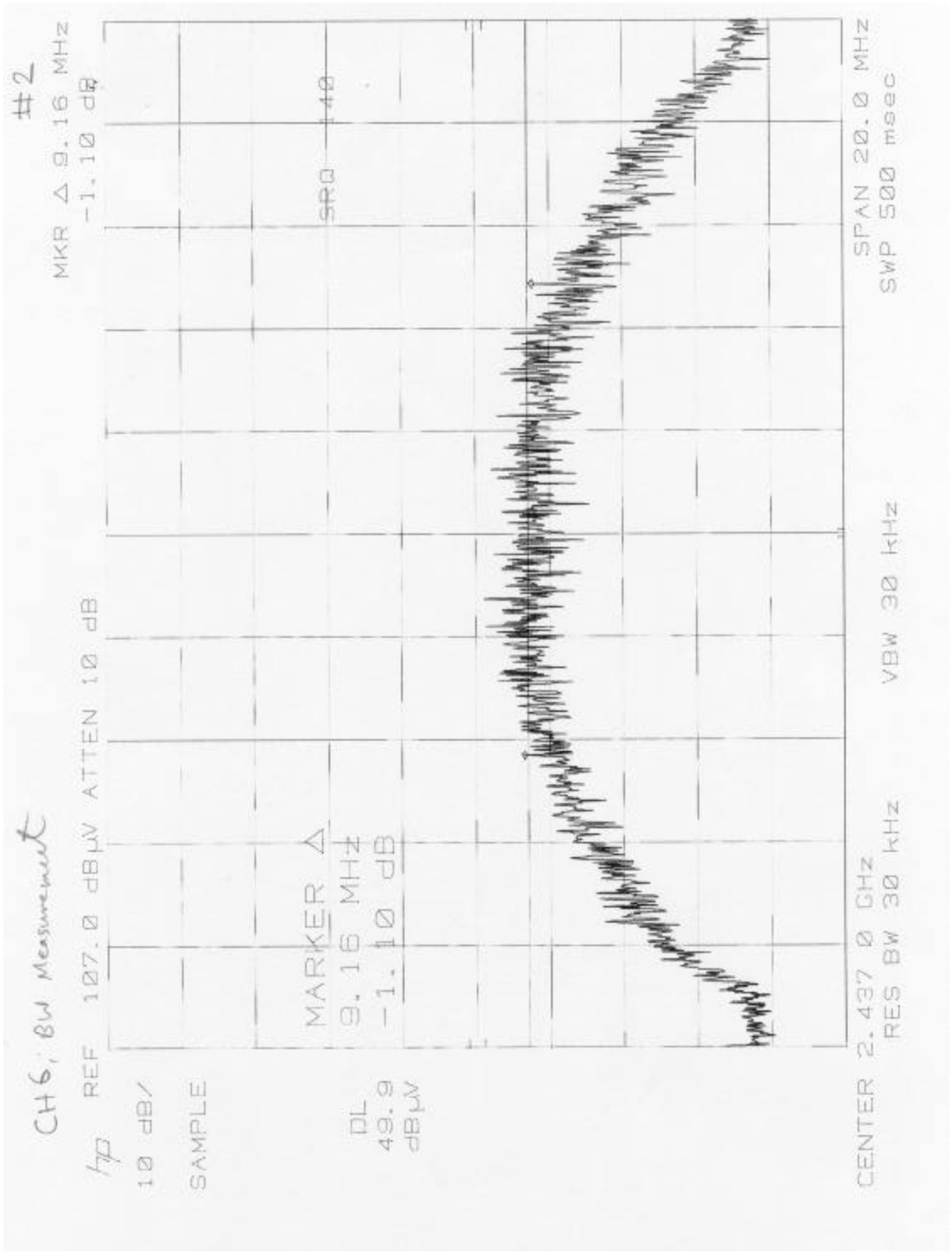

#2
MKR 19.385 GHz
43.60 dBµV
hp REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
19.385 GHz
43.60 dBµV
START 15.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 20.00 GHz
SWP 2.00 sec

MKR 23.984 GHz
46.30 dBµV
REF 107.0 dBµV ATTEN 10 dB
10 dB/
MARKER
23.984 GHz
46.30 dBµV
START 20.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 24.00 GHz
SWP 2.00 sec

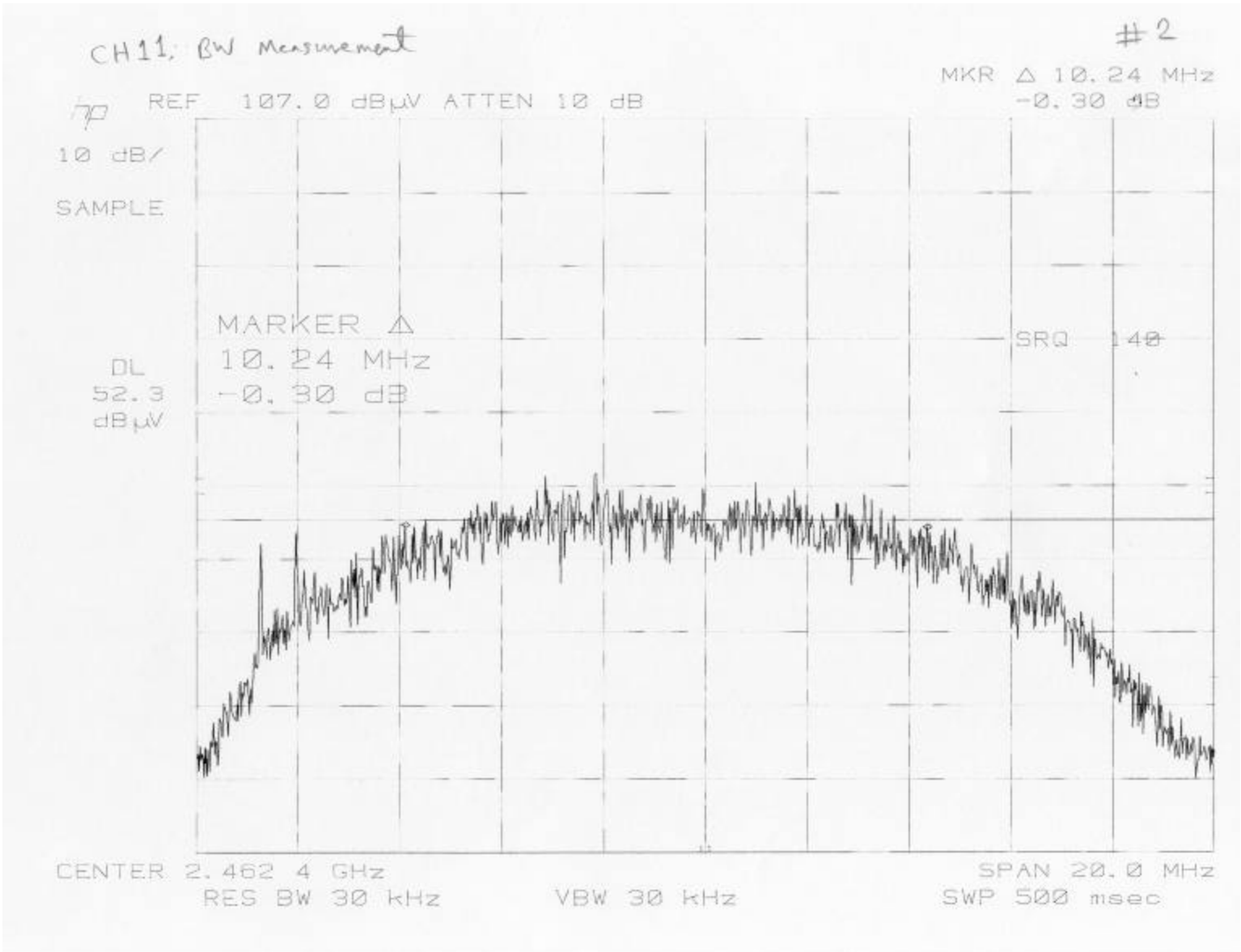
6 dB Bandwidth Measurement - Channel 1
Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X
BW = 9.58 MHz

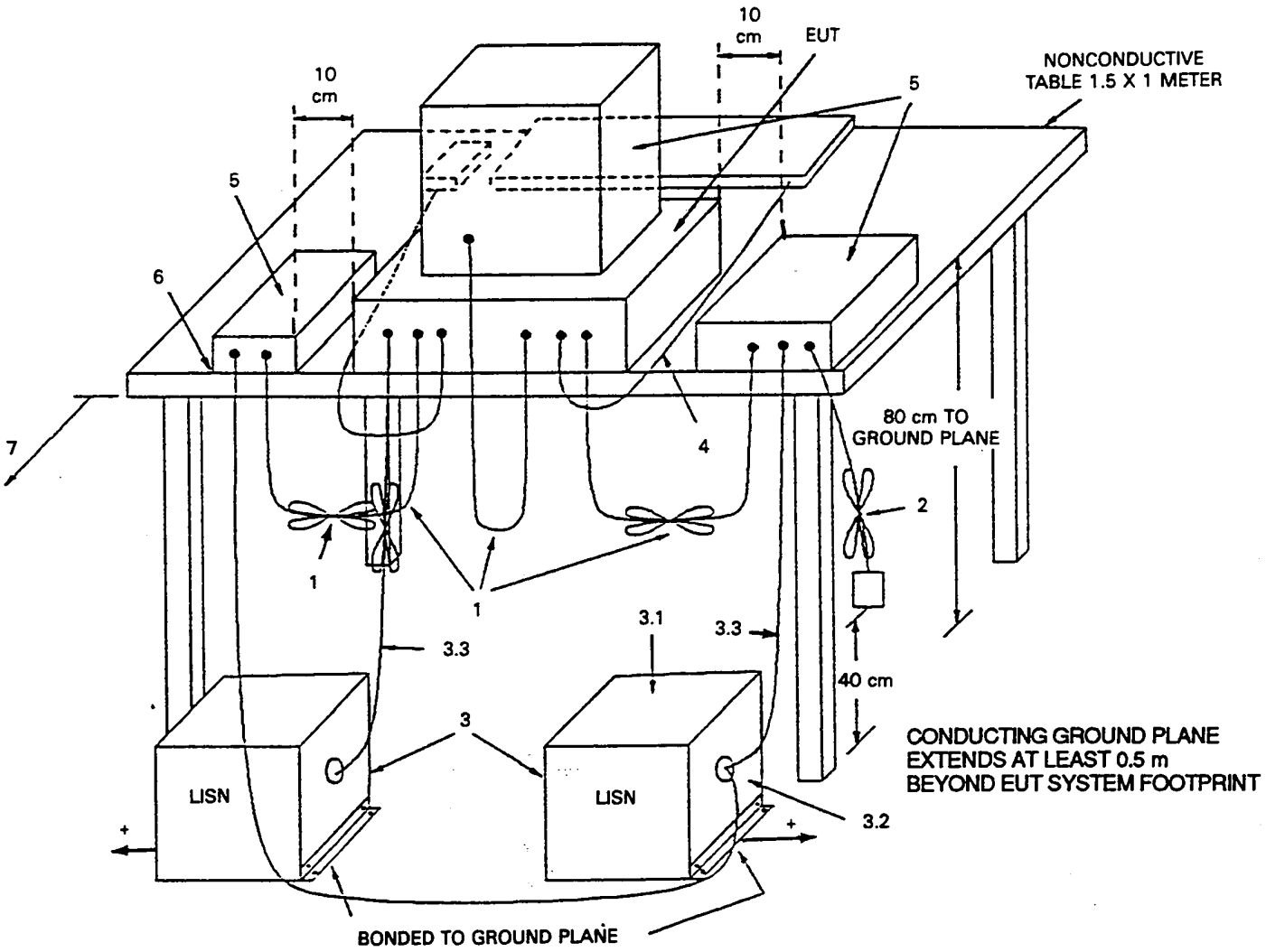


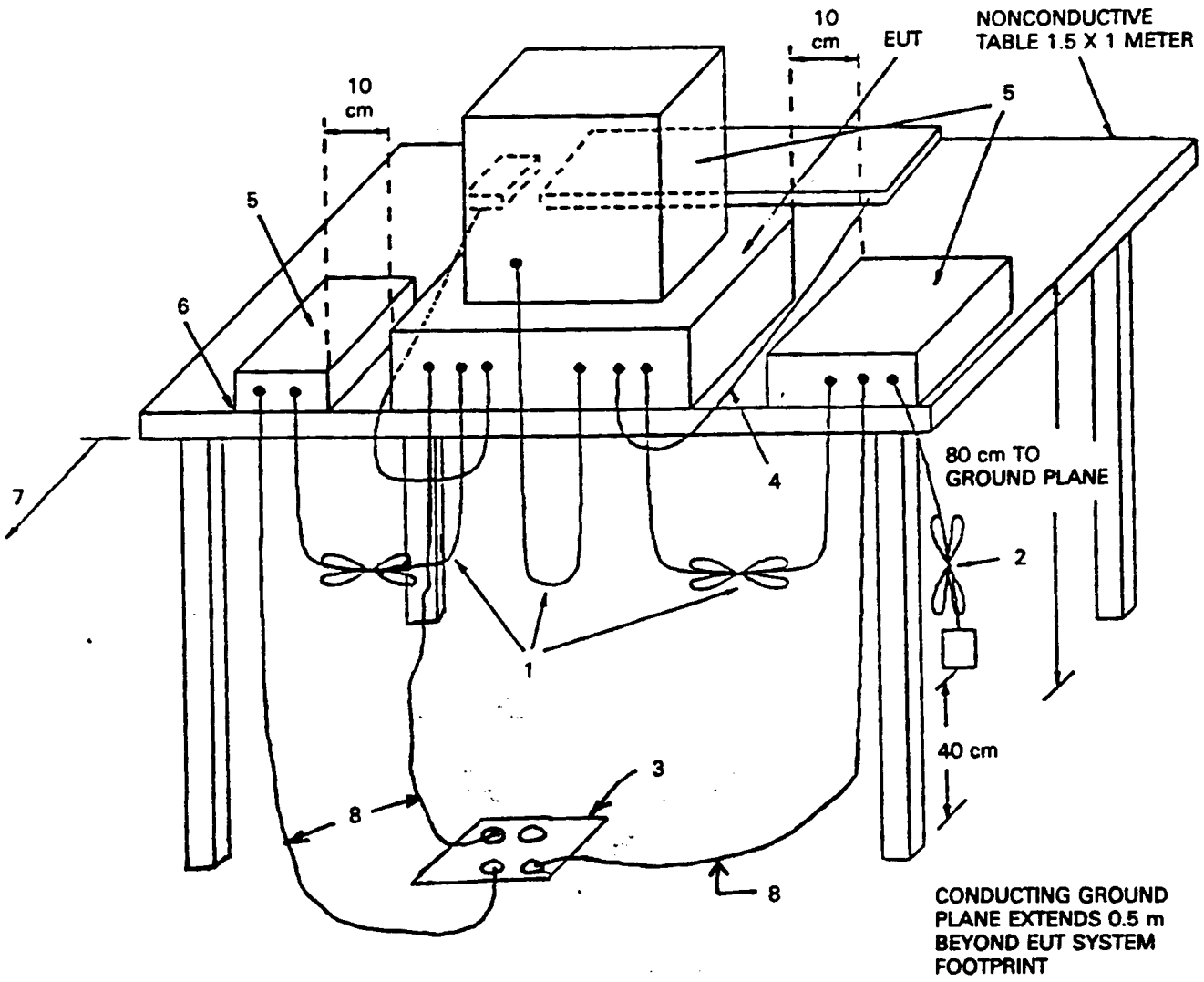
6 dB Bandwidth Measurement - Channel 6
Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X
BW = 9.16 MHz



6 dB Bandwidth Measurement - Channel 11
Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X
BW = 10.24 MHz


CH11, BW Measurement
#2
MKR Δ 10.24 MHz
-0.30 dB
REF 107.0 dBμV ATTEN 10 dB
10 dB/
SAMPLE
MARKER Δ
10.24 MHz
-0.30 dB
SRQ 140
DL
52.3
dBμV
CENTER 2.462 4 GHz
RES BW 30 kHz
VBW 30 kHz
SPAN 20.0 MHz
SWP 500 msec


10
cm
EUT
10
cm
NONCONDUCTIVE
TABLE 1.5 X 1 METER
5
5
6
7
4
80 cm TO
GROUND PLANE
2
1
1
3.1
3.3
3.3
40 cm
3
LISN
LISN
CONDUCTING GROUND PLANE
EXTENDS AT LEAST 0.5 m
BEYOND EUT SYSTEM FOOTPRINT
3.2
+
+
BONDED TO GROUND PLANE


10
cm
EUT
NONCONDUCTIVE
TABLE 1.5 X 1 METER
10
cm
5
5
6
7
4
80 cm TO
GROUND PLANE
2
1
40 cm
3
8
8
CONDUCTING GROUND
PLANE EXTENDS 0.5 m
BEYOND EUT SYSTEM
FOOTPRINT

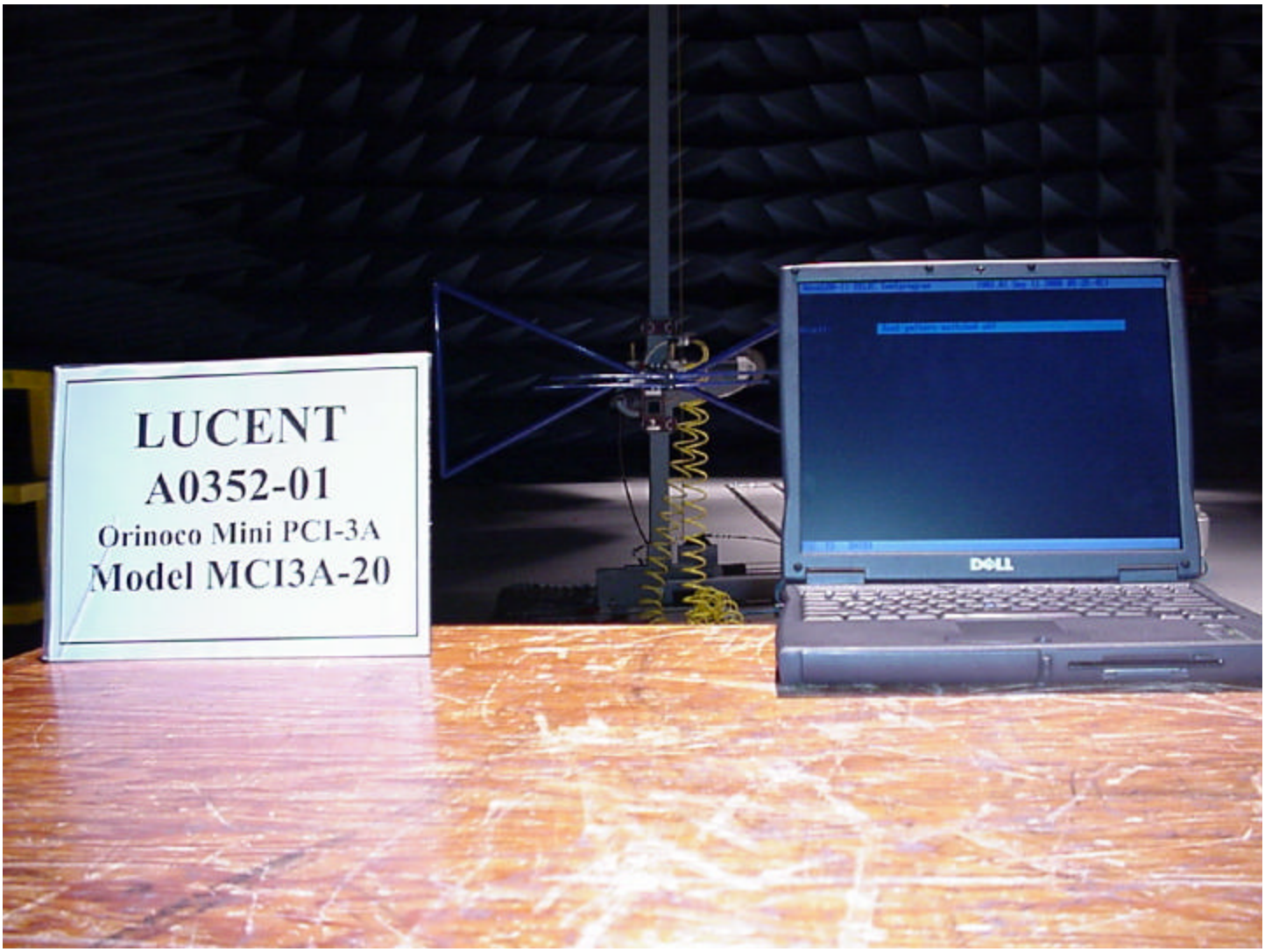
Appendix A

Test Setups
(Photographs)

Photograph of Test Setup:
Conducted Emissions 10/150/450 kHz - 30 MHz

Radio Card installed in Dell Laptop Latitude C600, Model No. PP01L

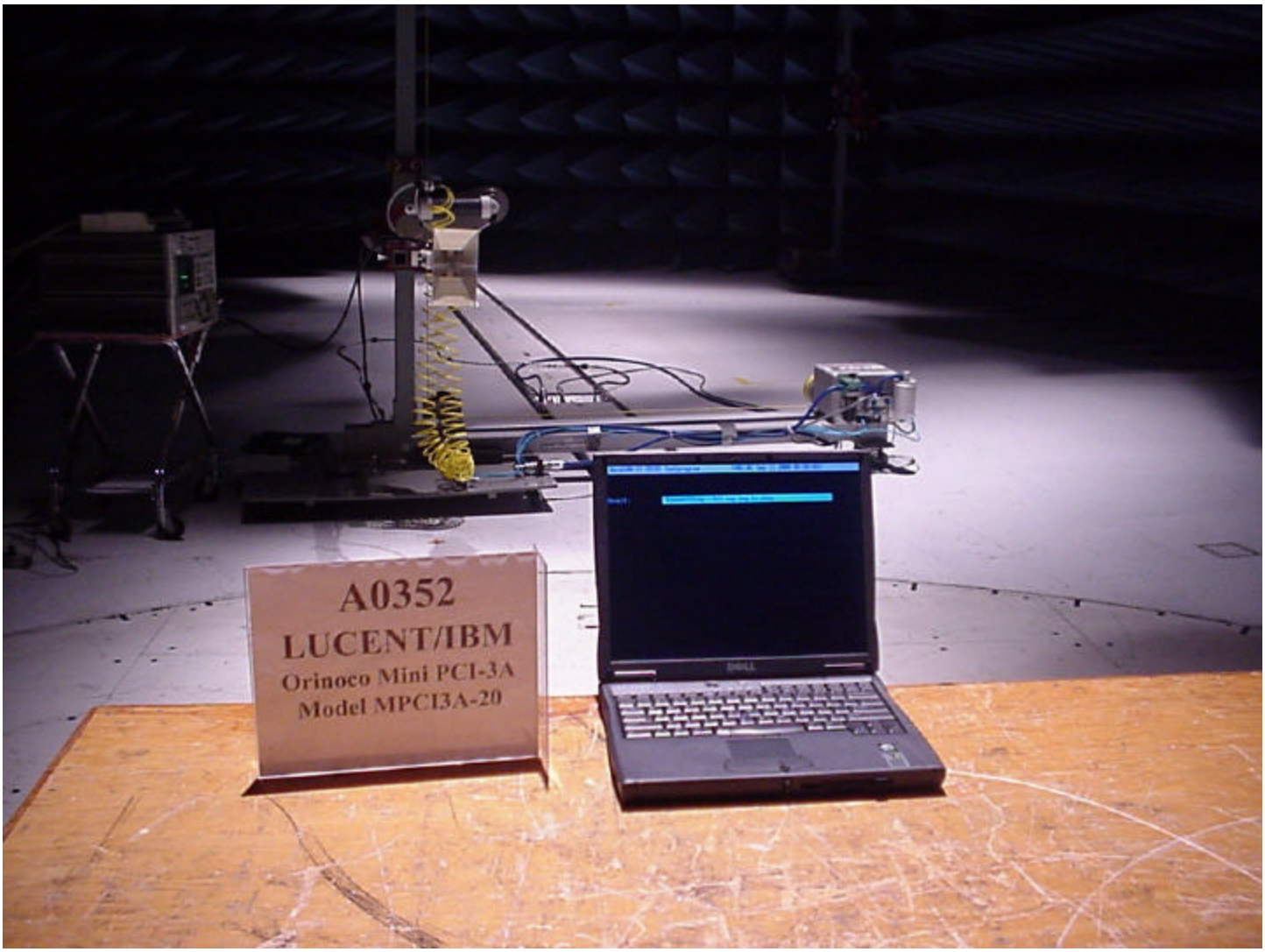
Photograph of Test Setup:
Radiated Emissions 30 MHz - 1000 MHz



Radio Card installed in Dell Laptop Latitude C600, Model No. PP01L

Photograph of Test Setup:

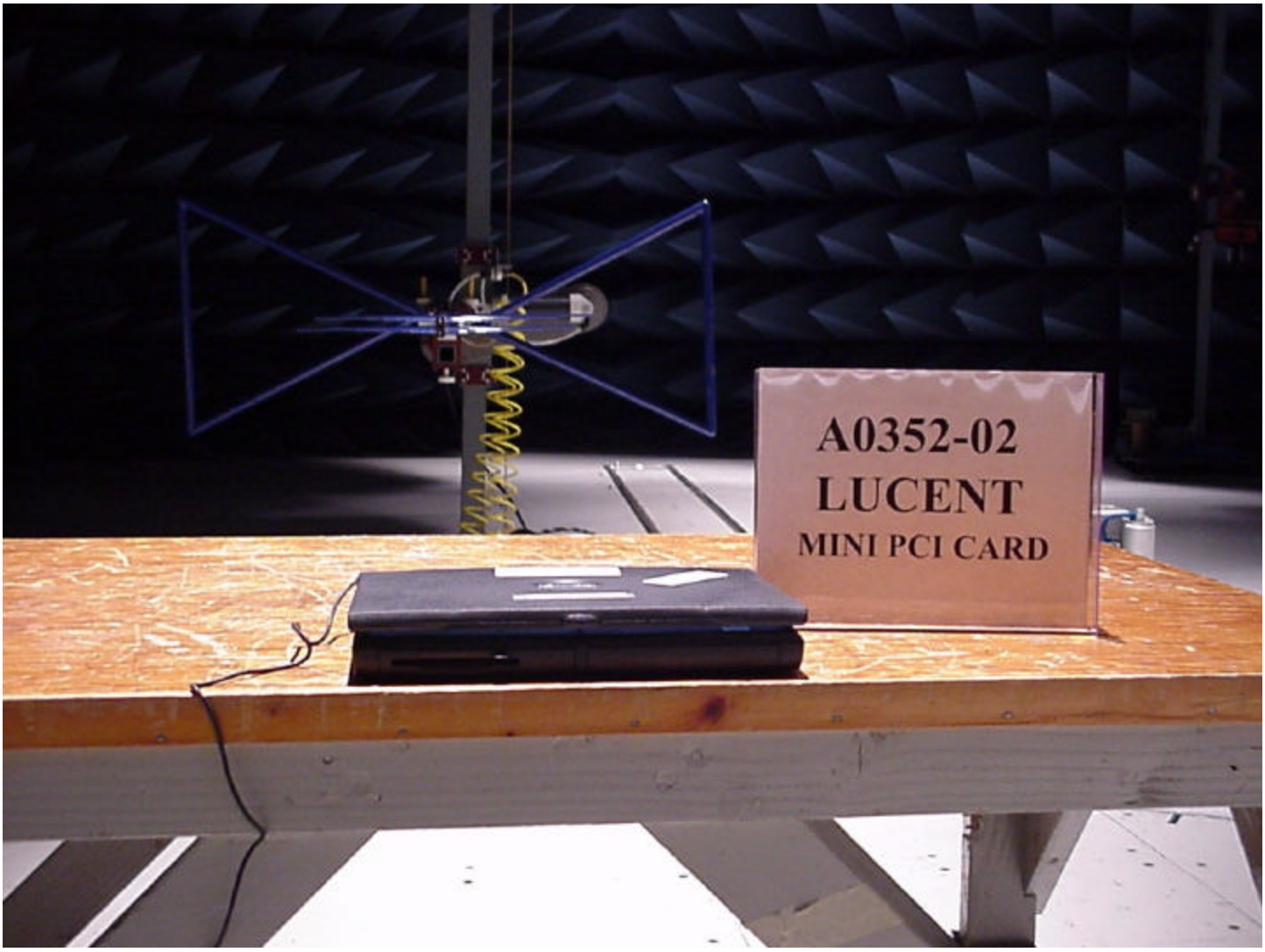
Radiated Emissions 1 GHz - 24 GHz



Radio Card installed in Dell Laptop Latitude C600, Model No. PP01L

Photograph of Test Setup:
Conducted Emissions 10/150/450 kHz - 30 MHz

Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X



Photograph of Test Setup:
Radiated Emissions 30 MHz - 1000 MHz

Radio Card installed in Dell Laptop Latitude C800, Model No. PP01X

Appendix B

Product Information Form(s)

CUSTOMER INFORMATION	
COMPANY NAME:	Lucent Technologies Nederland B.V.
COMPANY ADDRESS:	Zadelstede 1-10 , Nieuwegein
	Zip: 3431 JZ , The Netherlands
PHONE NUMBER:	(512) 725-2767
FAX NUMBER/E-MAIL ADDRESS:	(512) 728-5278, Edward_Barnes@dell.com
CUSTOMER CONTACT:	Edward Barnes
PRODUCT DESCRIPTION	
NAME, MODEL, SERIAL # OF EUT:	Orinoco Mini PCI-3A, MPCI3A-20, 00UT36470058
DESCRIPTION OF EUT:	The ORiNOCO MiniPCI radio module in combination with antennas connected externally to the unit provides a wireless connection for portable and mobile computers in accordance with IEEE standard 802.11 Direct Sequence Spread Spectrum. Operation is in the 2.4 GHz frequency band at 11 sub channels, 2412 thru 2462 MHz. The data rate is 11 Mbps with fallback rates of 5.5 Mbps, 2Mbps and 1 Mbps. The operation is in accordance with IEEE 802.11. The radio module will be installed in a standard Mini PCI card slot located inside the PC. Two antennas are factory installed in the screen of the PC. One of the antennas is used as TX/RX antenna. The other is used as RX antenna. By diversity switching the best receiving antenna is selected.

Components of EUT			
Description	Model Number	Serial Number	FCC ID Number
Mini PCI radio module	MPCI3A-20	00UT36470058	N/A
Antenna Assembly (H2), Foxconn	P/N: FX01L03-P1	N/A	N/A
Antenna Assembly (L2)	N/A	N/A	N/A
OPERATING MODE(S):	**Refer to EUT description**		

I/O CABLES (N/A)	
CONNECTION	
SHIELD	
CONNECTORS	
TERMINATION TYPE	
LENGTH	
REMOVABLE	
CONNECTION	
SHIELD	
CONNECTORS	
TERMINATION TYPE	
LENGTH	
REMOVABLE	

POWER CORDS			
UNIT:	Power Supply, model: AA20031	UNIT:	
MANUFACTURER:	Dell	MANUFACTURER:	

SHIELDED:		SHIELDED:	
LENGTH:		LENGTH:	

POWER INTERFACE	
VOLTAGE / FREQUENCY	120 VAC / 60 Hz
PHASES/CURRENT:	single phase, 1.5 A input / 3.5 A output

OSCILLATOR FREQUENCIES		
FREQUENCY	EUT LOCATION	DESCRIPTION OF USE
22 MHz X-tal		
704 MHz VCO		
352 Mhz (704/2)		
2050 - 2150 Mhz (VCO)		

POWER SUPPLY (N/A for the MiniPCI); IT GETS POWER FROM HOST PC				
DESCRIPTION	MANUFACTURER	MODEL #	SERIAL #	SWITCHING/LINEAR FREQ.
Power Supply for the host laptop	Dell	AA20031	CN-09364U-12761-08F-1331	

POWER LINE FILTERS			
MANUFACTURER	MODEL NO.	QTY.	LOCATION ON EUT

CRITICAL EMI COMPONENTS (N/A)				
DESCRIPTION	MANUFACTURER	PART # OR VALUE	QTY.	LOCATION ON EUT

DESCRIPTION OF ENCLOSURE:	Plastic with metal shielded and gasketed back panel extending over Mini PCI board (EUT)

INTERFACING AND/OR SIMULATORS PERIPHERAL EQUIPMENT:				
DESCRIPTION	MANUFACTURER	MODEL #	SERIAL #	FCC ID
Laptop computer (500 Mhz Pentium) (64 RAM @ 100 Mhz FSB)	Dell	C600 , C800	000791UH-128000-07J-0255	N/A
Power Supply	Dell	AA20031	CN-09364U-12761-08F-1331	N/A

BLOCK DIAGRAM:	

Appendix C

Change History

Not Applicable

Appendix D

Supplemental Information

Compliance Information

Labeling

Equipment subject to Declaration of Conformity procedures shall be labeled in accordance with Part 2 of the Regulations.

Compliance Statement

Equipment subject to Declaration of Conformity authorization procedures must be accompanied by a compliance information statement when placed on the market, which must contain the following information:-

1) Equipment identification

2) Statement of compliance with Part 15:-

> “This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.”

3) Identification and contact details of the responsible party located in the United States.

This statement can either be printed in the user guide or alternatively as an addendum.

The following warning statement must also be included in the equipment manual:-

> “Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate this equipment.”