

hp CONDUCTED SPURIOUS 2.456 GHZ
REF 30.0 dBm ATTEN 30 dB

MKR 4.90 GHZ
-23.10 dBm

10 dB/

OFFSET
10.1
dB

DL
-13.0
dBm

MARKER

4.90 GHZ
-23.10 dBm

CORR'D

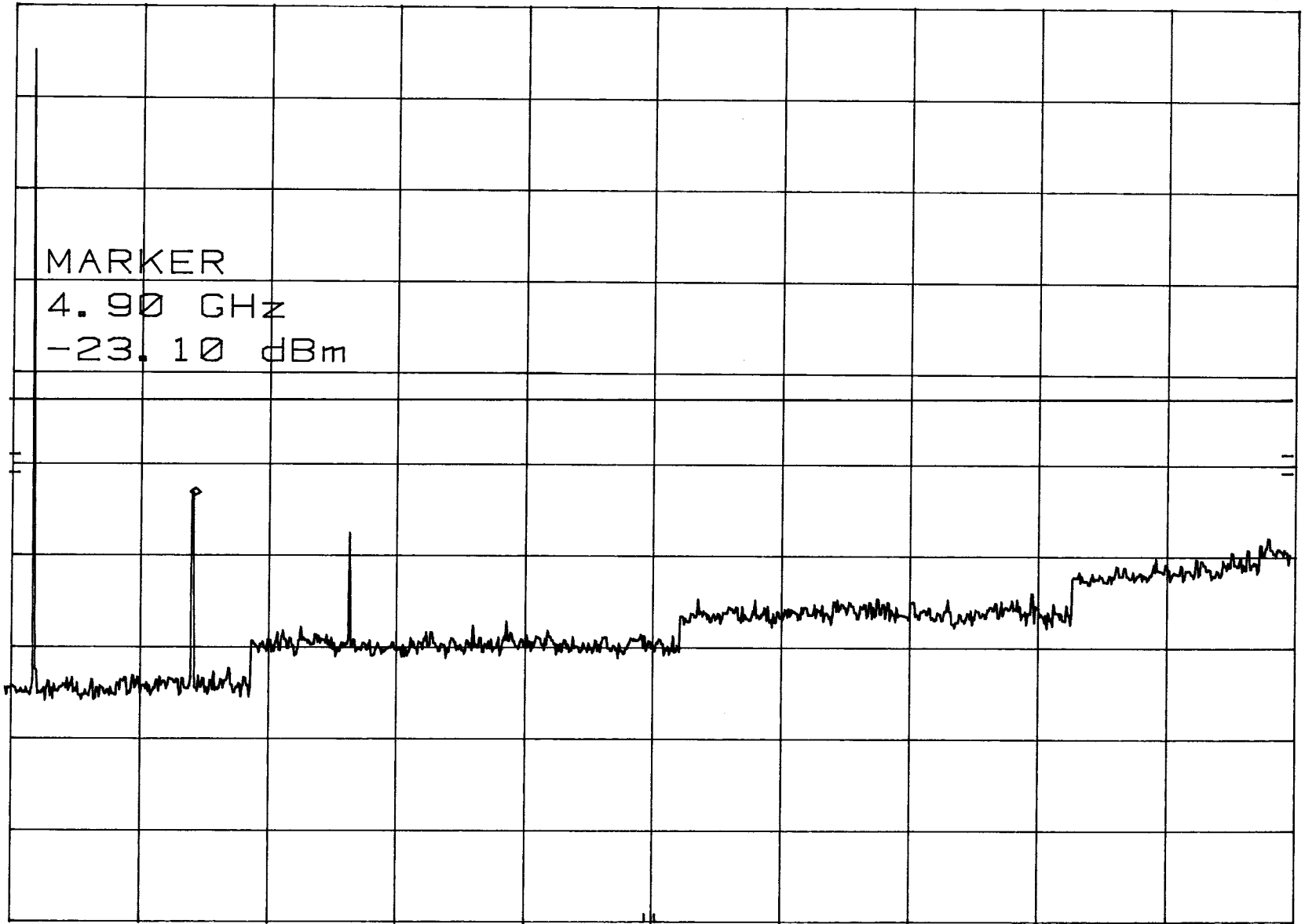
START 2.0 GHZ

RES BW 100 kHz

VBW 300 kHz

STOP 22.0 GHZ

SWP 6.00 sec



CONDUCTED SPURIOUS - 2.456 GHZ

MKR 22.135 GHz

hp

REF 0.0 dBm

HARMONIC 6L

-74.60 dBm

10 dB/

CNVLOSS

22.0

dB

DL

-13.0

dBm

MARKER

22.135 GHz

-74.60 dBm

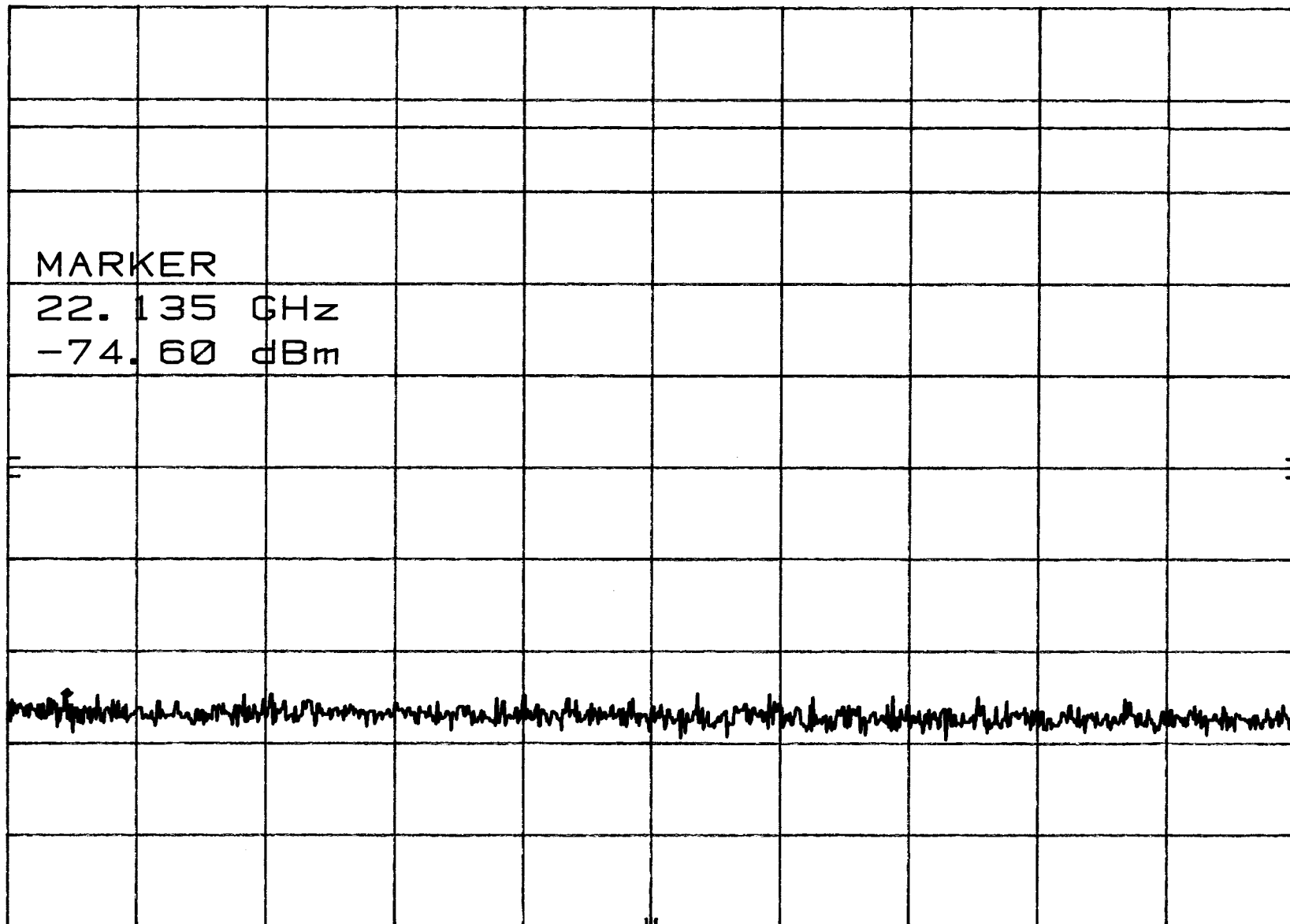
START 22.00 GHz

RES BW 100 kHz

VBW 300 kHz

STOP 25.00 GHz

SWP 900 msec



CONDUCTED SPURIOUS 2.470 GHz
REF 30.0 dBm ATTN 30 dB

MKR 1.892 GHz
-41.30 dBm

hp
10 dB/

OFFSET
10.1
dB

DL
-13.0
dBm

MARKER

1.892 GHz
-41.30 dBm

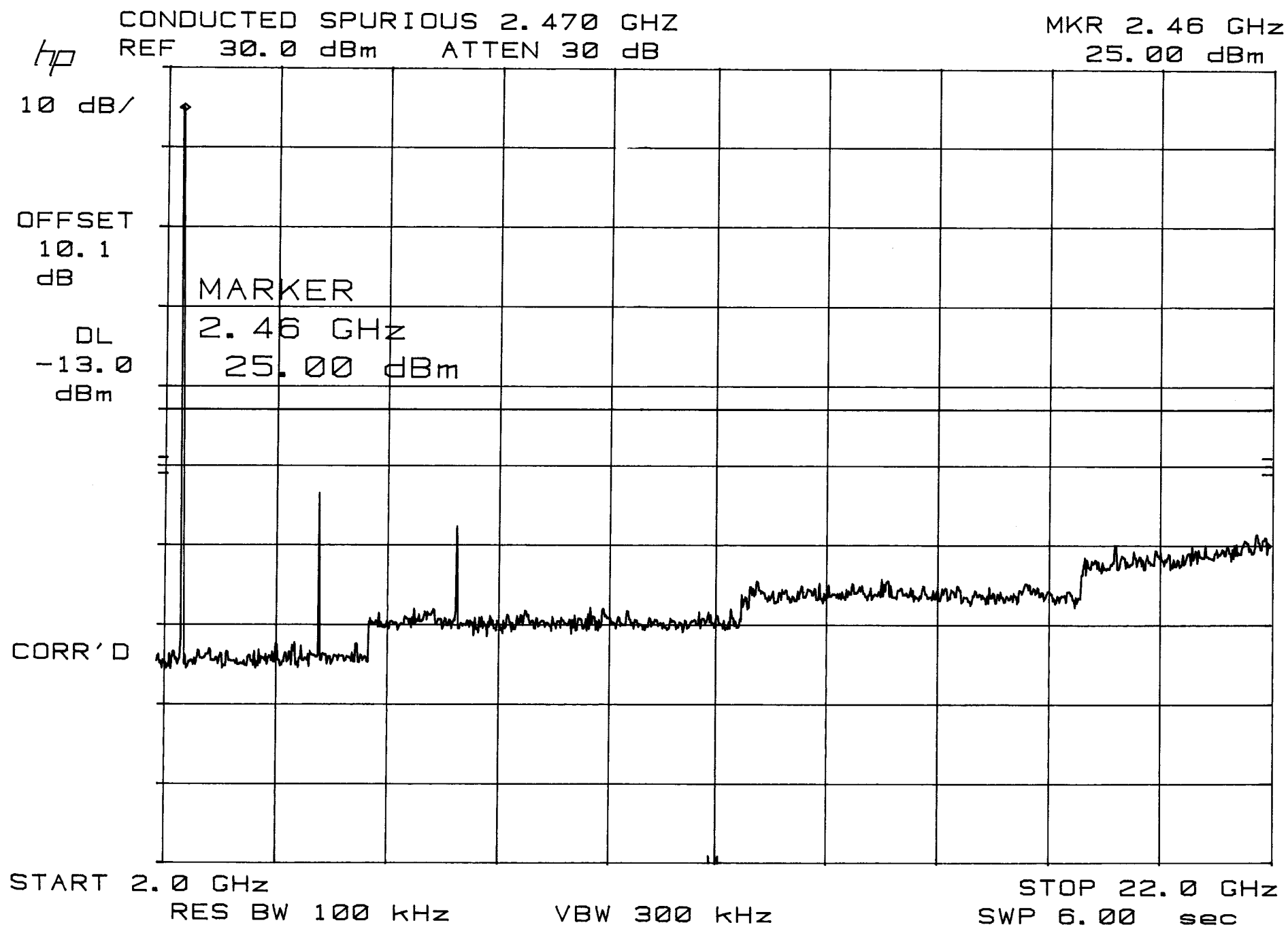
CORR'D

START 2 MHz

RES BW 100 kHz

VBW 300 kHz

STOP 2.00 GHz
SWP 599 msec

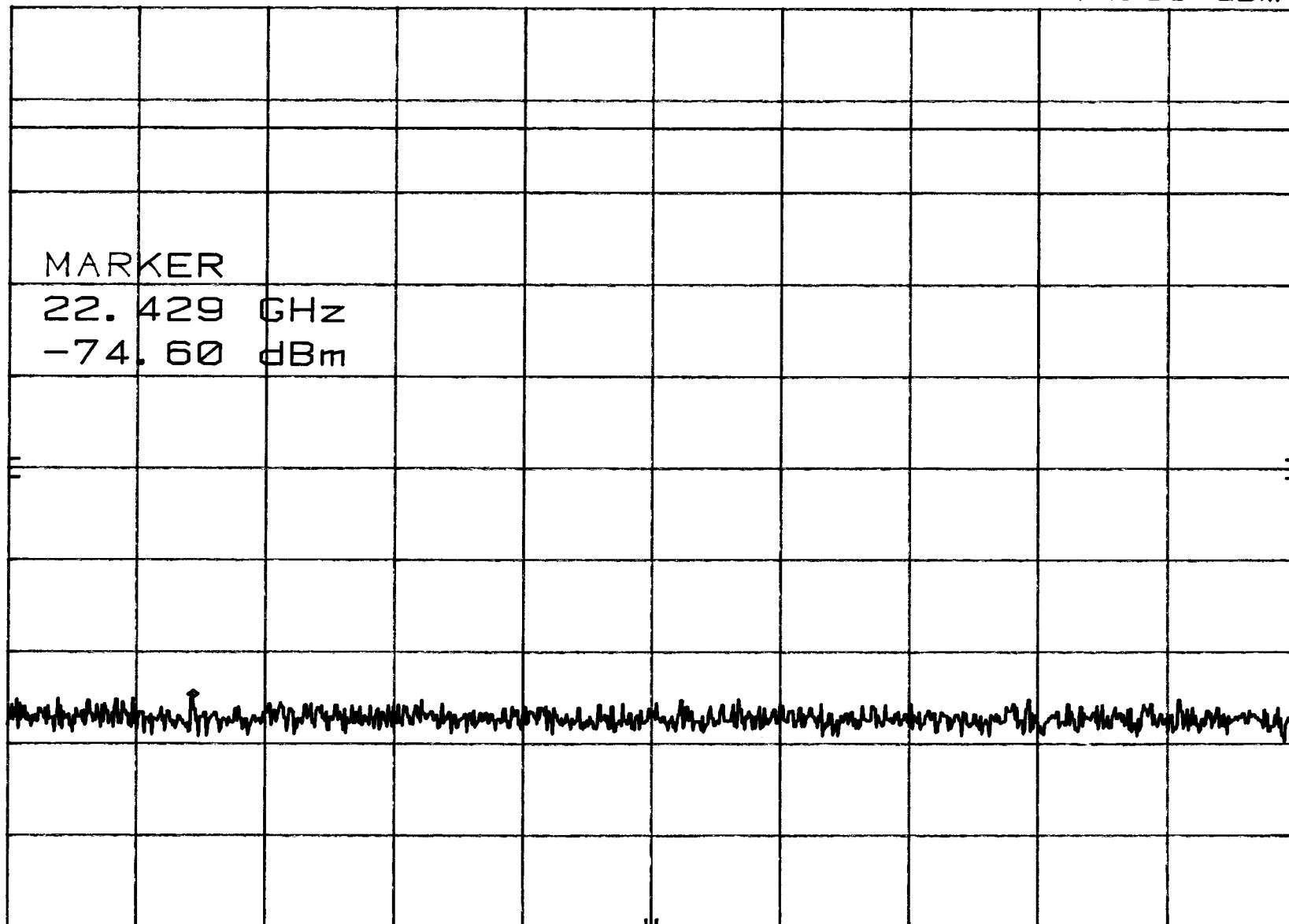


hp CONDUCTED SPURIOUS - 2.470 GHZ MKR 22.429 GHz
REF 0.0 dBm HARMONIC 6L -74.60 dBm

10 dB/

CNVLOSS
22.0
dB

DL
-13.0
dBm



START 22.00 GHz

RES BW 100 kHz

VBW 300 kHz

STOP 25.00 GHz
SWP 900 msec

hp CONDUCTED SPURIOUS 2.477 GHz
REF 30.0 dBm ATTN 30 dB

MKR 1.902 GHz
-40.60 dBm

10 dB/

OFFSET
10.1
dB

DL
-13.0
dBm

MARKER

1.902 GHz
-40.60 dBm

CORR'D

START 2 MHz

RES BW 100 kHz

VBW 300 kHz

STOP 2.00 GHz

SWP 599 msec

hp

CONDUCTED SPURIOUS 2.477 GHz

REF 30.0 dBm ATTEN 30 dB

MKR 4.96 GHz

-23.30 dBm

10 dB/

OFFSET

10.1

dB

DL

-13.0

dBm

MARKER

4.96 GHz

-23.30 dBm

CORR'D

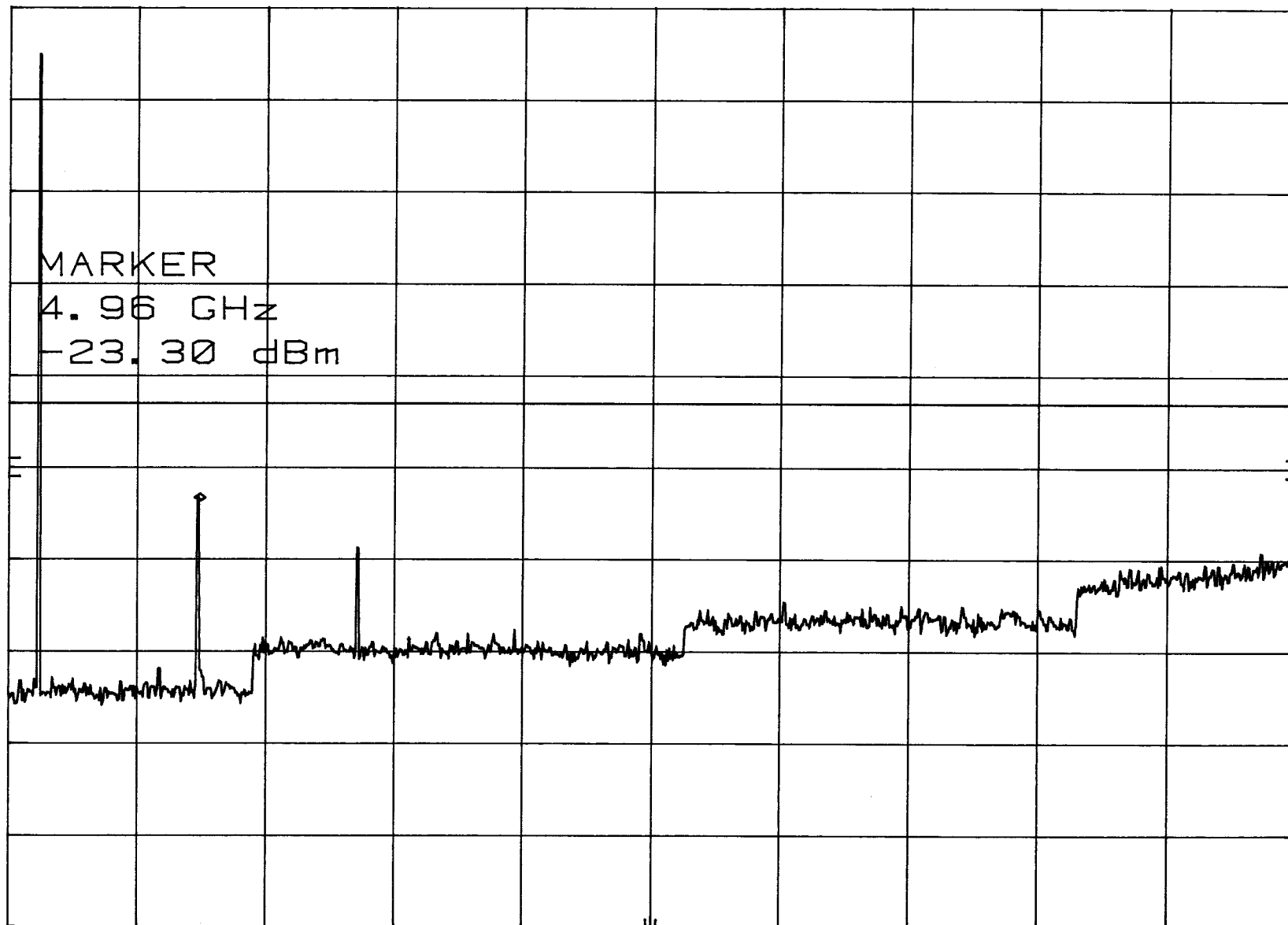
START 2.0 GHz

RES BW 100 kHz

VBW 300 kHz

STOP 22.0 GHz

SWP 6.00 sec



hp CONDUCTED SPURIOUS - 2.477 GHz
REF 0.0 dBm HARMONIC 6L

MKR 22.048 GHz
-74.00 dBm

10 dB/

CNVLOSS
22.0
dB

DL
-13.0
dBm

MARKER

22.048 GHz
-74.00 dBm

START 22.00 GHz

RES BW 100 kHz

VBW 300 kHz

STOP 25.00 GHz
SWP 900 msec

FREQUENCY STABILITY
DATA SHEETS



Frequency Stability over Temperature FCC 2.10555 and 90.213

Microtek Electronics, Inc.

Date: 1/29/03

Video Transmitter

Lab: Environment Assoc.

Model: 24.THP-90

Tested By: Kyle Fujimoto

Test Description: Low Channel - Center Frequency - 2.4560040 GHz

Temp Celsius	Voltage	FREQUENCY (GHz)	Deviation	% ERROR
-30	120 VAC	2.456001	0.0000030	0.0001221
-20	120 VAC	2.4560015	0.0000025	0.0001018
-10	120 VAC	2.4560018	0.0000022	0.0000896
0	120 VAC	2.4560019	0.0000021	0.0000855
10	120 VAC	2.456002	0.0000020	0.0000814
20	102 VAC (85%)	2.4560039	0.0000001	0.0000041
20	120 VAC (100%)	2.456004	0.0000000	0.0000000
20	138 VAC (115%)	2.4560041	-0.0000001	0.0000041
30	120 VAC	2.456001	0.0000030	0.0001221
40	120 VAC	2.4560005	0.0000035	0.0001425
50	120 VAC	2.4560002	0.0000038	0.0001547



Frequency Stability over Temperature FCC 2.10555 and 90.213

Microtek Electronics, Inc.

Date: 1/29/03

Video Transmitter

Lab: Environment Assoc.

Model: 24.THP-90

Tested By: Kyle Fujimoto

Test Description: Middle Channel - Center Frequency - 2.4700050 GHz

Temp Celsius	Voltage	FREQUENCY (GHz)	Deviation	% ERROR
-30	120 VAC	2.4700005	0.0000045	0.0001822
-20	120 VAC	2.4700015	0.0000035	0.0001417
-10	120 VAC	2.4700012	0.0000038	0.0001538
0	120 VAC	2.4700014	0.0000036	0.0001457
10	120 VAC	2.4700004	0.0000010	0.0000405
20	102 VAC (85%)	2.4700049	0.0000001	0.0000040
20	120 VAC (100%)	2.4700005	0.0000000	0.0000000
20	138 VAC (115%)	2.4700051	-0.0000001	0.0000040
30	120 VAC	2.4700015	0.0000035	0.0001417
40	120 VAC	2.4700035	0.0000015	0.0000607
50	120 VAC	2.4700025	0.0000025	0.0001012



Frequency Stability over Temperature FCC 2.10555 and 90.213

Microtek Electronics, Inc.

Date: 1/29/03

Video Transmitter

Lab: Environment Assoc.

Model: 24.THP-90

Tested By: Kyle Fujimoto

Test Description: High Channel - Center Frequency - 2.4770030 GHz

Temp Celsius	Voltage	FREQUENCY (GHz)	Deviation	% ERROR
-30	120 VAC	2.477007	-0.0000040	0.0001615
-20	120 VAC	2.4770065	-0.0000035	0.0001413
-10	120 VAC	2.4770052	-0.0000022	0.0000888
0	120 VAC	2.4770021	0.0000009	0.0000363
10	120 VAC	2.4770025	0.0000005	0.0000202
20	102 VAC (85%)	2.477003	0.0000000	0.0000000
20	120 VAC (100%)	2.477003	0.0000000	0.0000000
20	138 VAC (115%)	2.4770031	-0.0000001	0.0000040
30	120 VAC	2.477001	0.0000020	0.0000807
40	120 VAC	2.477001	0.0000020	0.0000807
50	120 VAC	2.477003	0.0000000	0.0000000

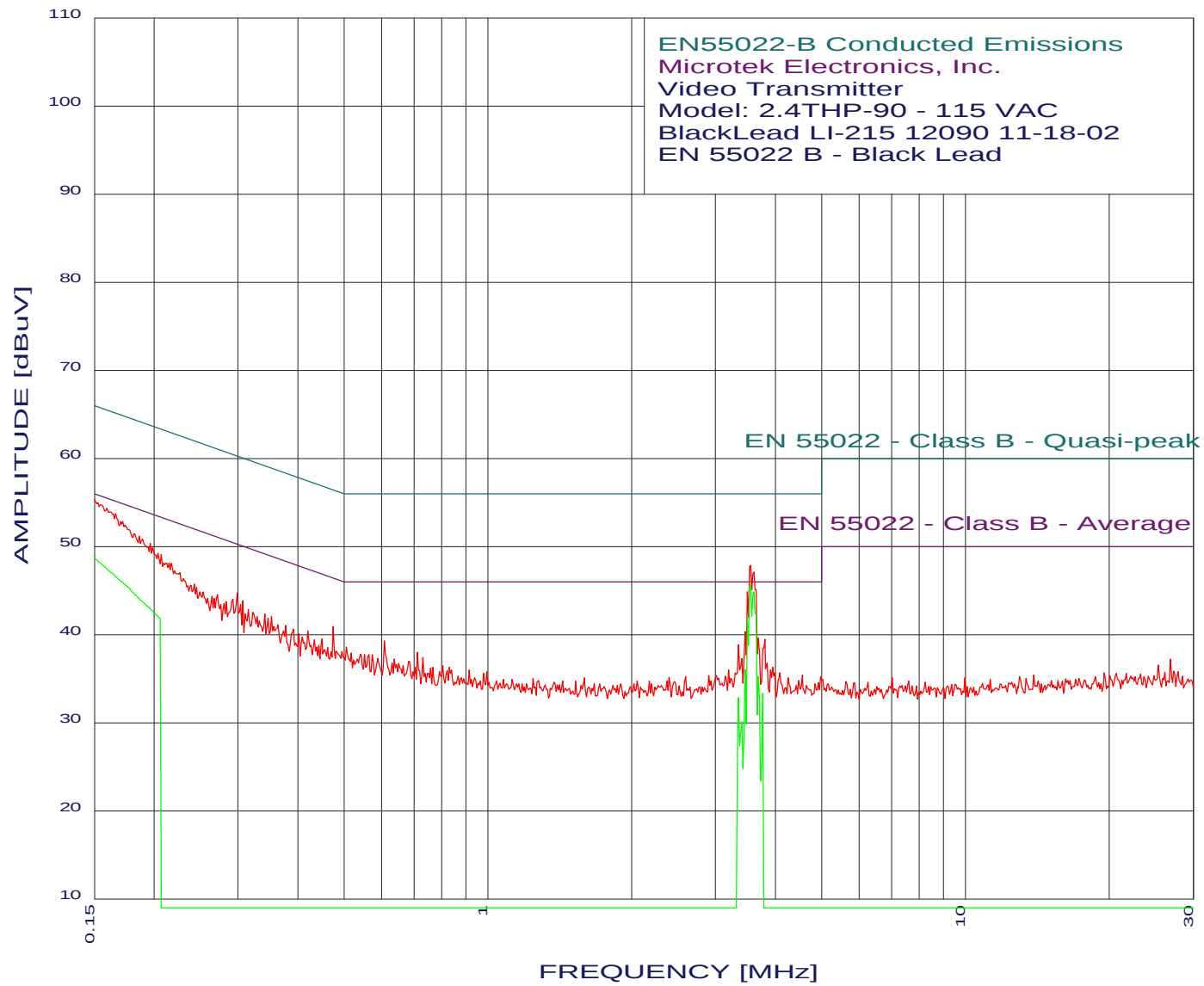


CONDUCTED EMISSIONS
DATA SHEETS



EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

1/15/2003 9:48:46



COMPATIBLE
ELECTRONICS



**COMPATIBLE
ELECTRONICS**

1/15/2003 9:48:46

Microtek Electronics, Inc.
Video Transmitter
Model: 2.4THP-90 - 115 VAC
EN 55022 B - Black Lead
TEST ENGINEER : Kyle Fujimoto

31 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	3.547	47.87	46.00	1.87*
2	3.605	47.07	46.00	1.07*
3	0.150	55.34	56.00	-0.66*
4	0.154	54.74	55.78	-1.04*
5	3.492	44.86	46.00	-1.14*
6	0.159	54.33	55.51	-1.18*
7	0.166	53.73	55.16	-1.43*
8	0.172	52.83	54.86	-2.03*
9	0.170	52.83	54.94	-2.11*
10	0.174	52.43	54.77	-2.34*
11	0.182	51.43	54.41	-2.99*
12	0.186	51.13	54.19	-3.07*
13	0.189	50.83	54.06	-3.23*
14	0.197	50.33	53.75	-3.43*
15	0.199	49.82	53.67	-3.84*
16	0.207	49.12	53.31	-4.19*
17	0.204	49.22	53.44	-4.22*
18	0.217	48.12	52.91	-4.79*
19	0.215	48.12	53.00	-4.88*
20	0.212	48.12	53.14	-5.02*
21	0.210	48.12	53.23	-5.10*
22	0.474	40.91	46.45	-5.54
23	0.227	47.02	52.57	-5.55
24	0.221	47.22	52.78	-5.56
25	0.299	44.72	50.28	-5.56
26	3.456	40.36	46.00	-5.64*
27	0.230	46.32	52.43	-6.11
28	0.307	43.82	50.05	-6.24
29	0.243	45.72	52.00	-6.28
30	3.683	39.57	46.00	-6.43*
31	0.293	44.02	50.45	-6.43

*Please See the Average Readings on the Next Page and on the Plot

**COMPATIBLE
ELECTRONICS**

1/15/2003 9:48:46

Microtek Electronics, Inc.
Video Transmitter
Model: 2.4THP-90 - 115 VAC
EN 55022 B - Black Lead
TEST ENGINEER : Kyle Fujimoto

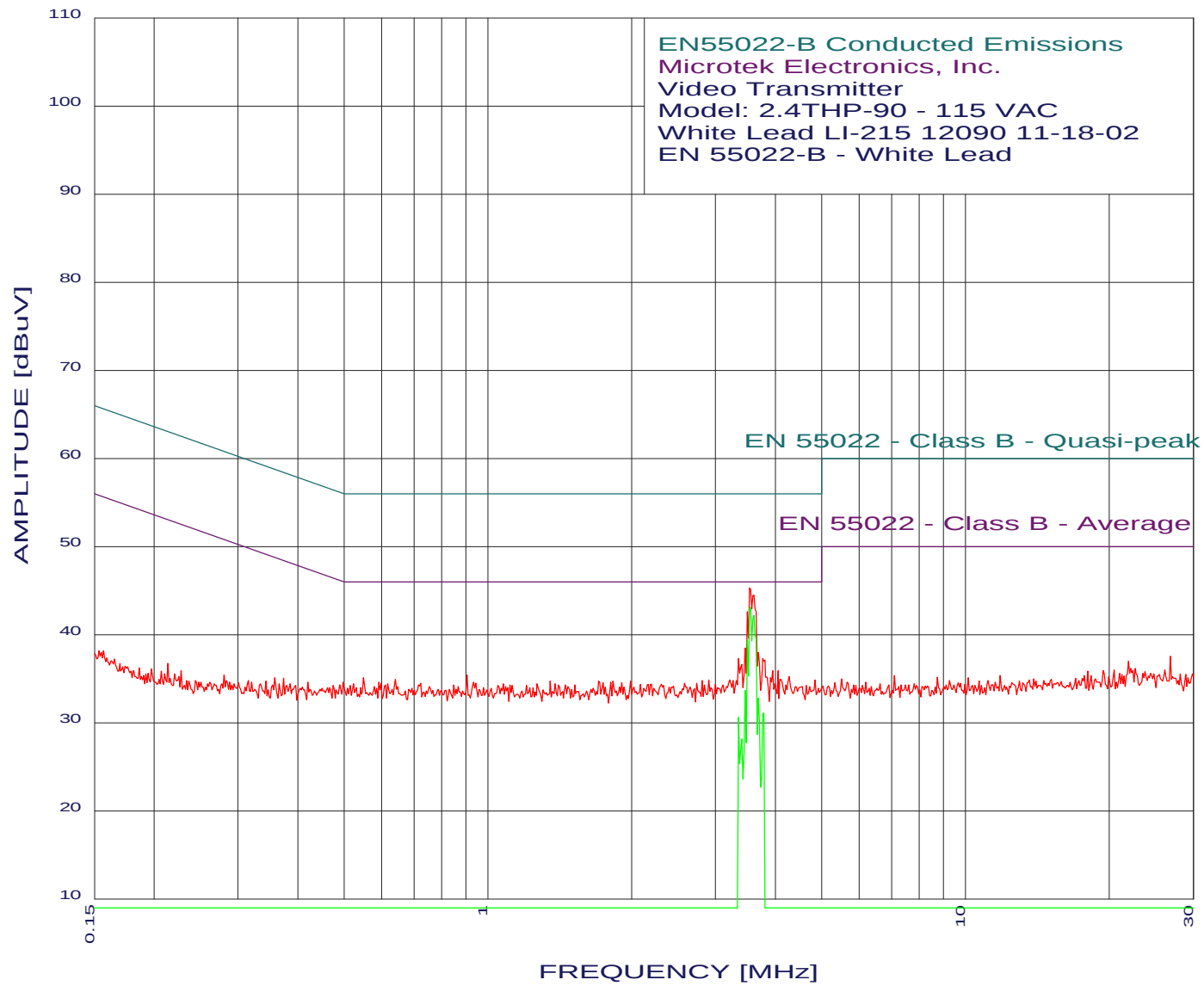
9 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line

Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	3.547	45.73	46.00	-0.27
2	3.605	44.83	46.00	-1.17
3	3.492	41.80	46.00	-4.20
4	0.150	48.68	56.00	-7.32
5	3.456	36.01	46.00	-9.99
6	3.683	35.23	46.00	-10.77
7	3.761	33.36	46.00	-12.64
8	3.346	32.82	46.00	-13.18
9	3.401	30.10	46.00	-15.90

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

1/15/2003 10:01:44



COMPATIBLE
ELECTRONICS



**COMPATIBLE
ELECTRONICS**

1/15/2003 10:01:44

Microtek Electronics, Inc.
Video Transmitter
Model: 2.4THP-90 - 115 VAC
EN 55022-B - White Lead
TEST ENGINEER : Kyle Fujimoto

30 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	3.529	45.28	46.00	-0.72*
2	3.605	44.48	46.00	-1.52*
3	3.492	42.57	46.00	-3.43*
4	3.456	38.47	46.00	-7.53*
5	3.683	37.98	46.00	-8.02*
6	3.761	37.28	46.00	-8.72*
7	3.346	37.27	46.00	-8.73*
8	3.800	37.09	46.00	-8.91
9	3.401	36.57	46.00	-9.43*
10	4.050	35.89	46.00	-10.11
11	3.945	35.89	46.00	-10.11
12	0.904	35.38	46.00	-10.62
13	4.272	35.20	46.00	-10.80
14	0.550	35.09	46.00	-10.91
15	3.903	35.09	46.00	-10.91
16	4.114	34.90	46.00	-11.10
17	0.641	34.89	46.00	-11.11
18	3.209	34.86	46.00	-11.14
19	2.900	34.85	46.00	-11.15
20	4.851	34.83	46.00	-11.17
21	3.311	34.77	46.00	-11.23
22	3.260	34.77	46.00	-11.23
23	2.811	34.75	46.00	-11.25
24	1.992	34.72	46.00	-11.28
25	1.830	34.72	46.00	-11.28
26	1.708	34.71	46.00	-11.29
27	1.352	34.70	46.00	-11.30
28	1.810	34.62	46.00	-11.38
29	0.592	34.59	46.00	-11.41
30	0.934	34.59	46.00	-11.41

*Please See the Average Readings on the Next Page and on the Plot

**COMPATIBLE
ELECTRONICS**

1/15/2003 10:01:44

Microtek Electronics, Inc.
Video Transmitter
Model: 2.4THP-90 - 115 VAC
EN 55022-B - White Lead
TEST ENGINEER : Kyle Fujimoto

9 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line

Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	3.547	43.12	46.00	-2.88
2	3.605	42.18	46.00	-3.82
3	3.492	39.26	46.00	-6.74
4	3.456	33.68	46.00	-12.32
5	3.683	32.79	46.00	-13.21
6	3.781	31.11	46.00	-14.89
7	3.346	30.59	46.00	-15.41
8	3.401	28.13	46.00	-17.87
9	0.150	0.00	56.00	-56.00
