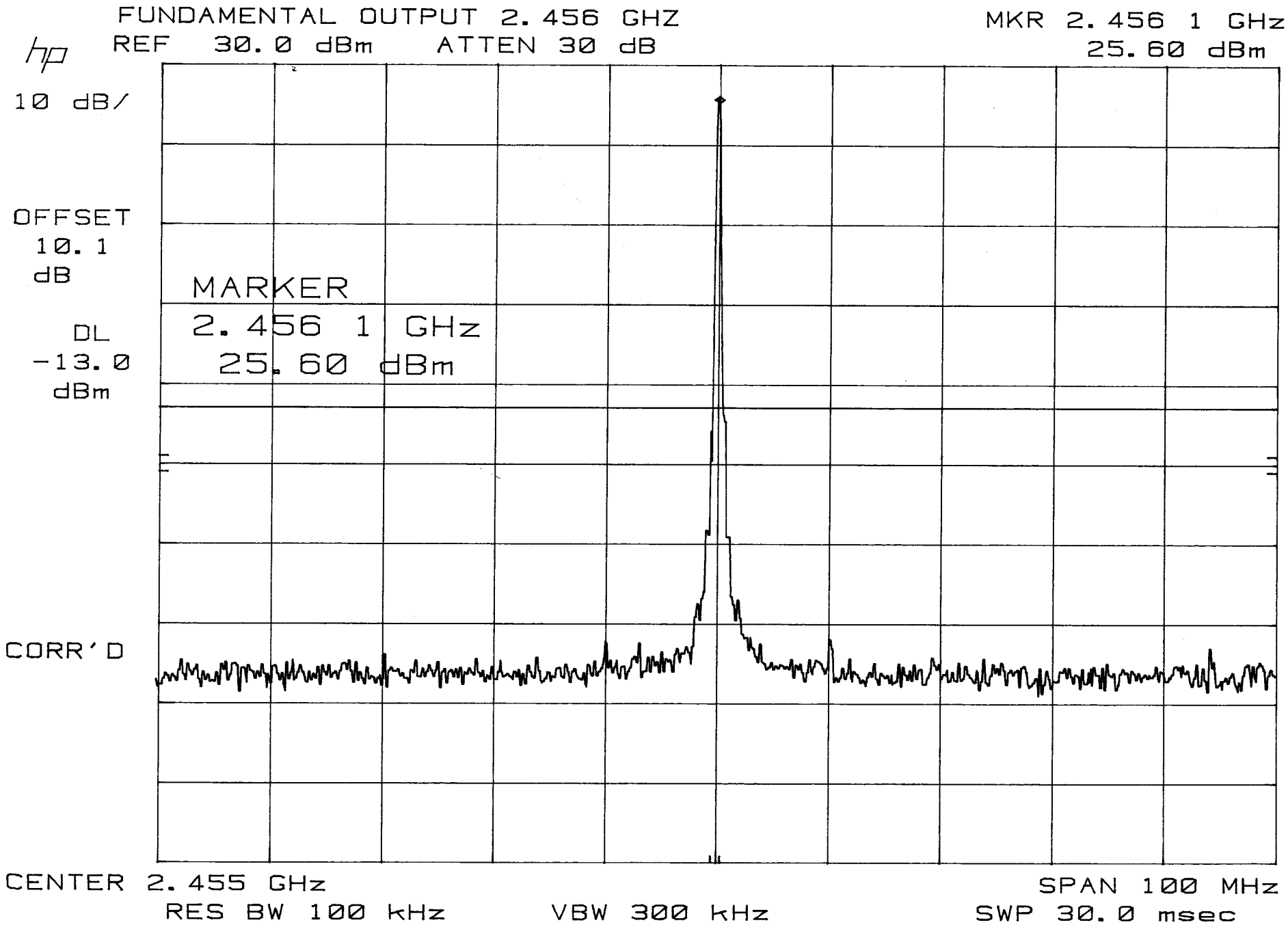
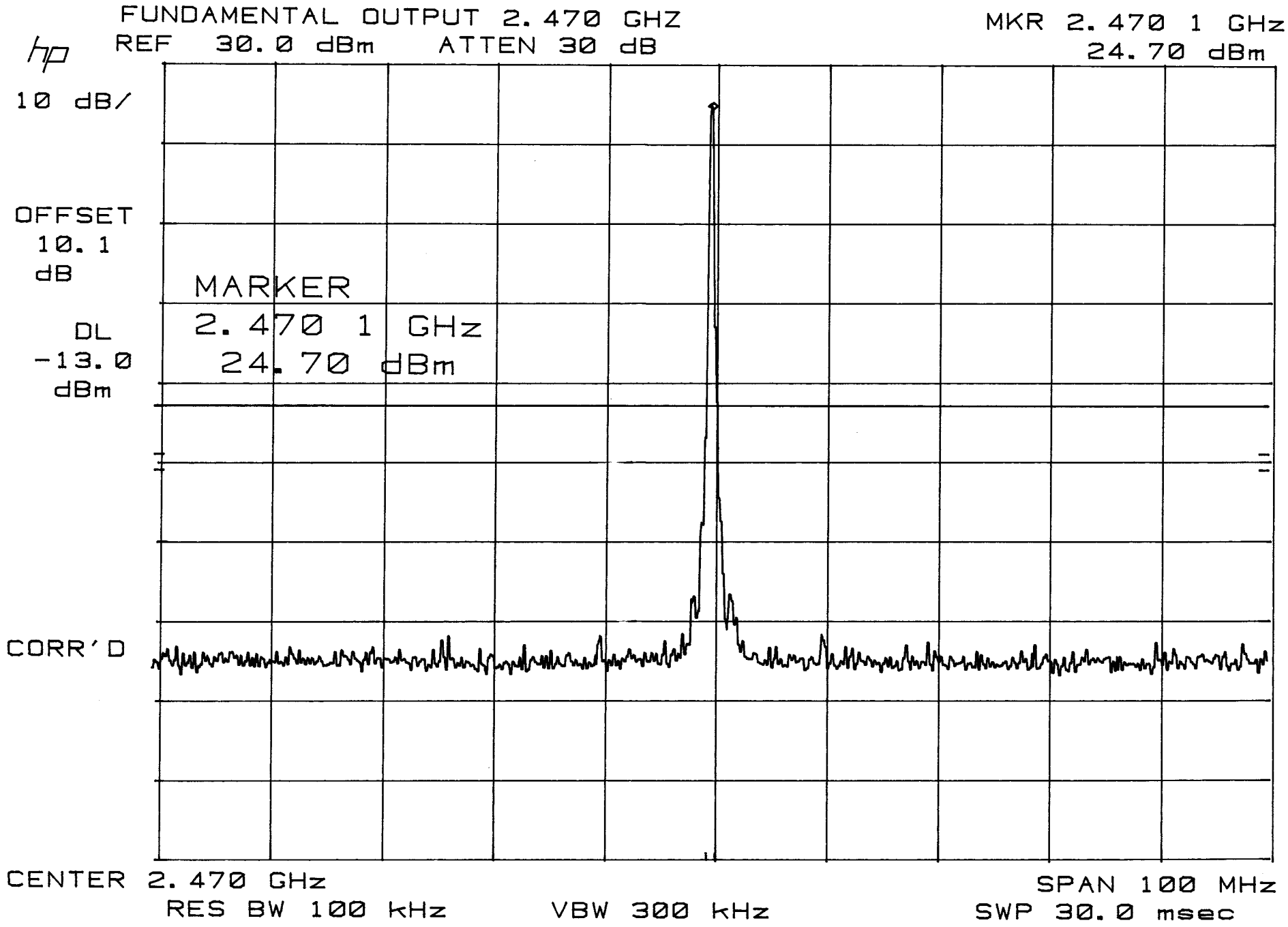
APPENDIX E

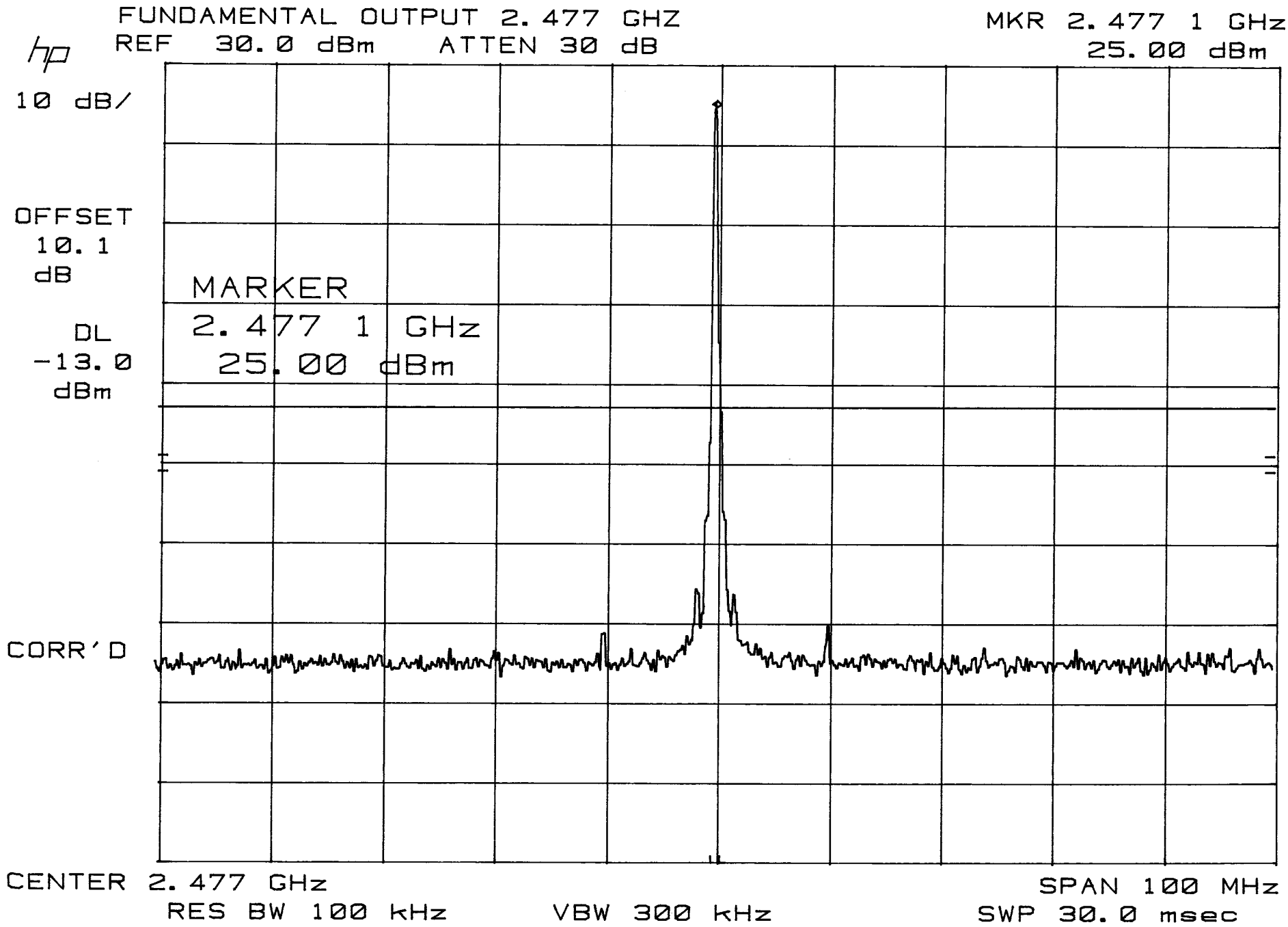
DATA SHEETS

RF OUTPUT POWER

DATA SHEETS


FUNDAMENTAL OUTPUT 2.456 GHZ
REF 30.0 dBm ATTEN 30 dB
MKR 2.456 1 GHz
25.60 dBm
10 dB/
OFFSET
10.1
dB
MARKER
2.456 1 GHz
25.60 dBm
DL
-13.0
dBm
CORR'D
CENTER 2.455 GHz
SPAN 100 MHz
RES BW 100 kHz
VBW 300 kHz
SWP 30.0 msec


FUNDAMENTAL OUTPUT 2.470 GHZ
REF 30.0 dBm ATTEN 30 dB
MKR 2.470 1 GHz
24.70 dBm
10 dB/
OFFSET
10.1
dB
MARKER
2.470 1 GHz
24.70 dBm
DL
-13.0
dBm
CORR'D
CENTER 2.470 GHz
RES BW 100 kHz
VBW 300 kHz
SPAN 100 MHz
SWP 30.0 msec


FUNDAMENTAL OUTPUT 2.477 GHZ
REF 30.0 dBm ATTEN 30 dB
MKR 2.477 1 GHz
25.00 dBm
10 dB/
OFFSET
10.1
dB
MARKER
2.477 1 GHz
25.00 dBm
DL
-13.0
dBm
CORR'D
CENTER 2.477 GHz
RES BW 100 kHz
VBW 300 kHz
SPAN 100 MHz
SWP 30.0 msec

PEAK OUTPUT POWER

MICROTEK ELECTRONICS, INC.

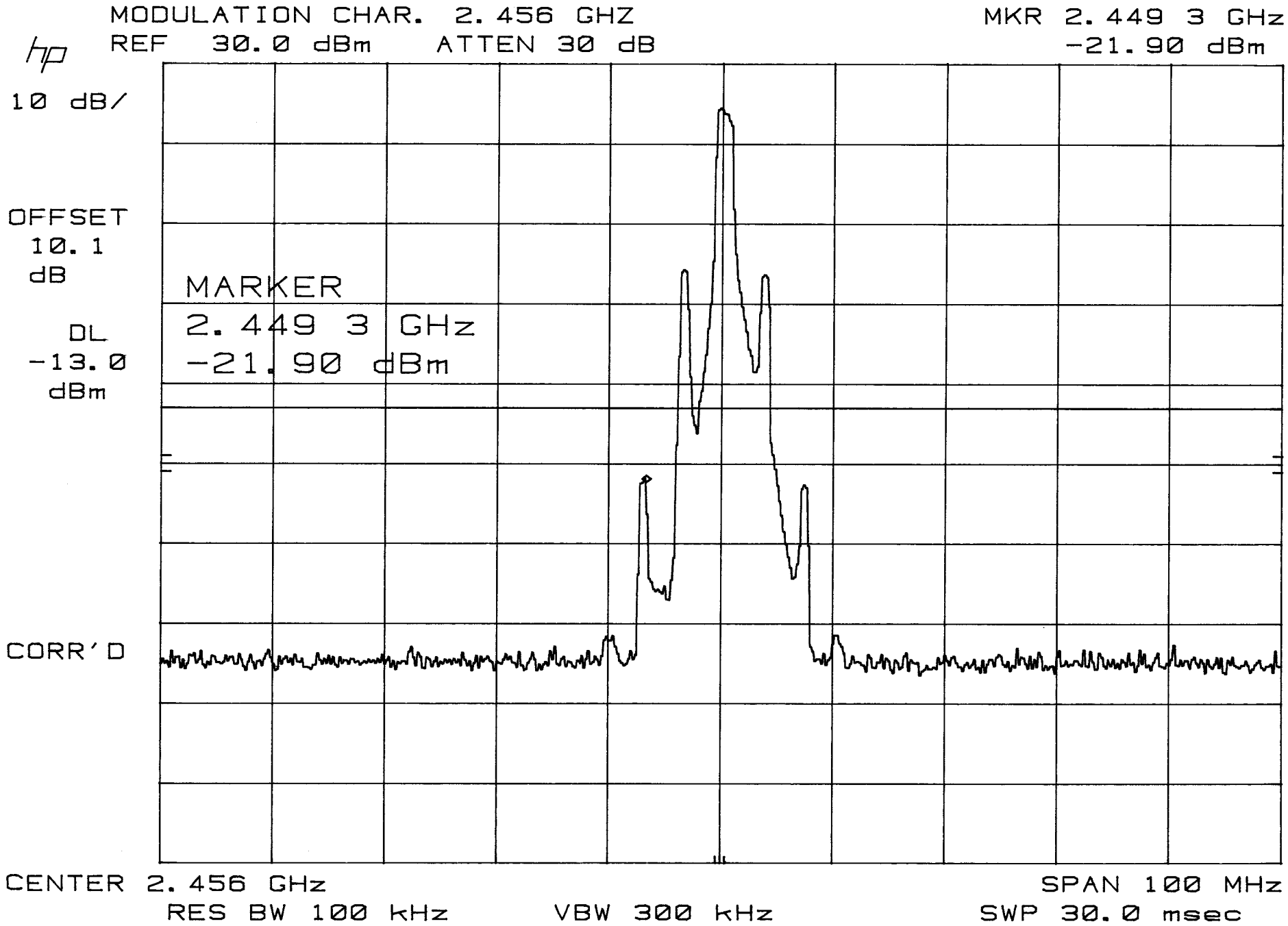
VIDEO TRANSMITTER

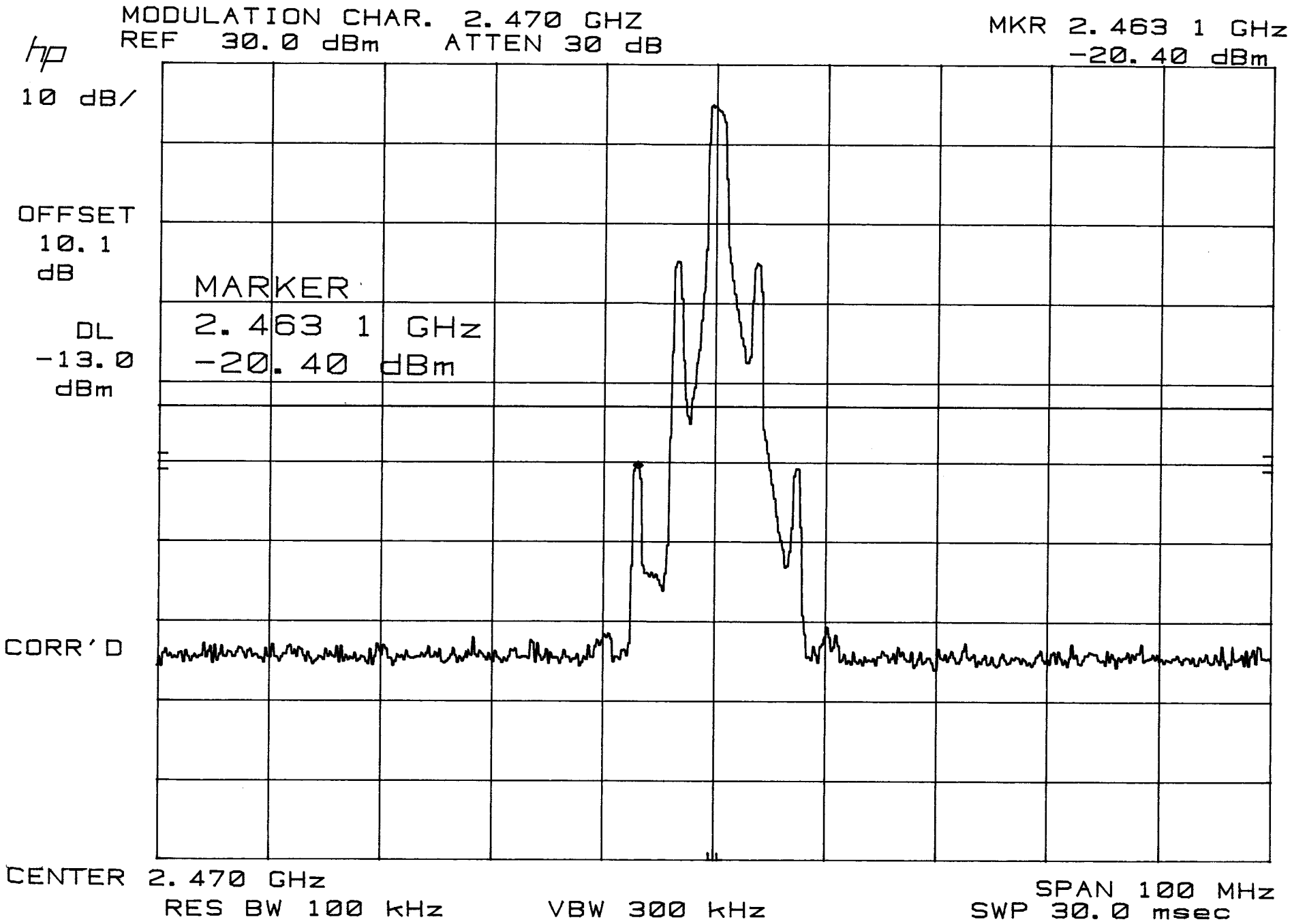
MODEL: 2.4THP-90

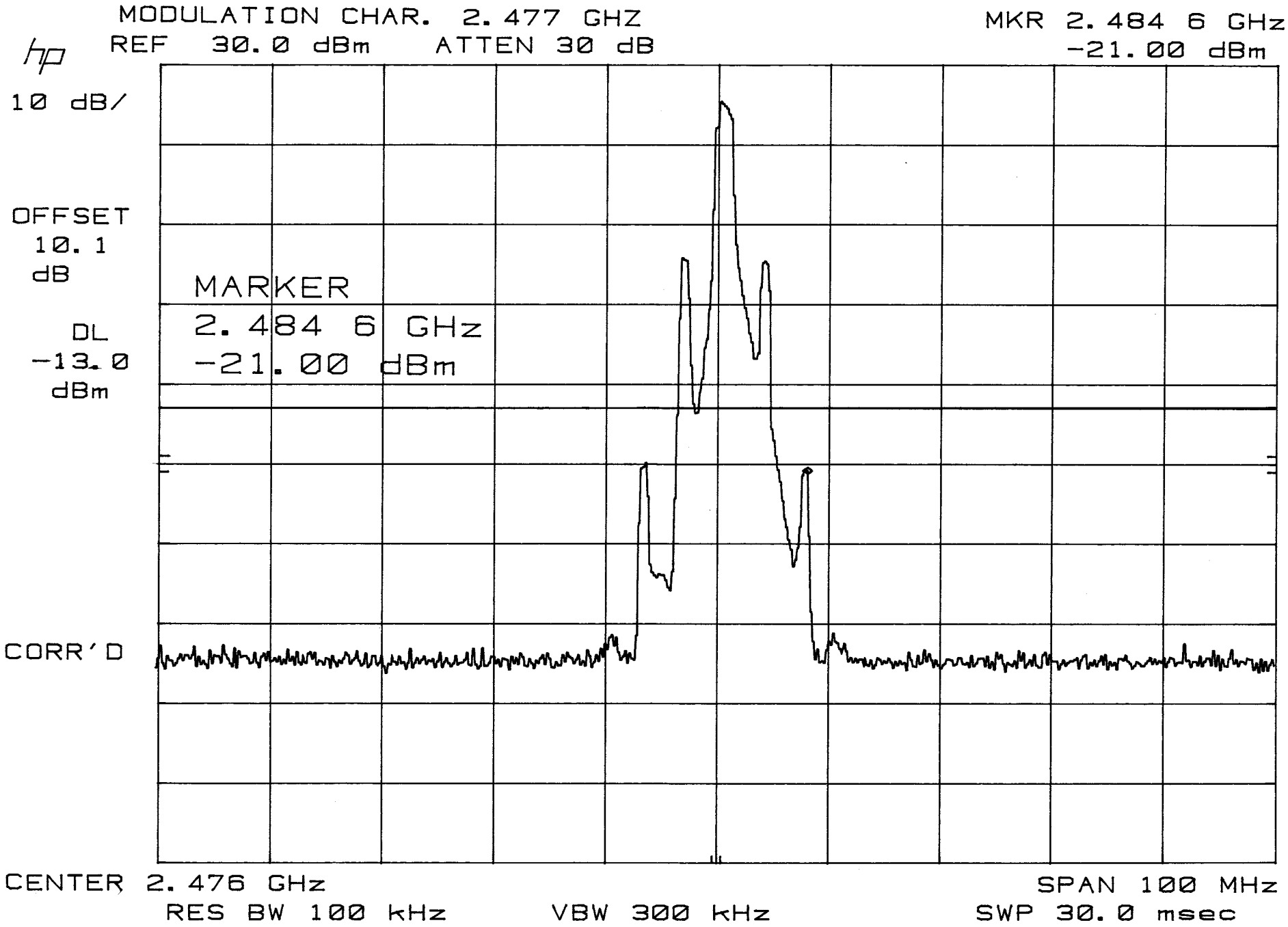
CHANNEL	PEAK POWER OUTPUT (Watts)
LOW	0.363
MIDDLE	0.295
HIGH	0.316

OCCUPIED BANDWIDTH

DATA SHEETS


MODULATION CHAR. 2.456 GHZ
REF 30.0 dBm ATTEN 30 dB
MKR 2.449 3 GHz
-21.90 dBm
10 dB/
OFFSET
10.1
dB
DL
-13.0
dBm
MARKER
2.449 3 GHz
-21.90 dBm
CORR'D
CENTER 2.456 GHz
SPAN 100 MHz
RES BW 100 kHz
VBW 300 kHz
SWP 30.0 msec


MODULATION CHAR. 2.470 GHZ
REF 30.0 dBm ATTEN 30 dB
MKR 2.463 1 GHz
-20.40 dBm
hp
10 dB/
OFFSET
10.1
dB
MARKER
2.463 1 GHz
-20.40 dBm
DL
-13.0
dBm
CORR'D
CENTER 2.470 GHz
RES BW 100 kHz
VBW 300 kHz
SPAN 100 MHz
SWP 30.0 msec


MODULATION CHAR. 2.477 GHZ
REF 30.0 dBm ATTEN 30 dB
MKR 2.484 6 GHz
-21.00 dBm
10 dB/
OFFSET
10.1
dB
DL
-13.0
dBm
MARKER
2.484 6 GHz
-21.00 dBm
CORR'D
CENTER 2.476 GHz
SPAN 100 MHz
RES BW 100 kHz
VBW 300 kHz
SWP 30.0 msec

RADIATED EMISSIONS ON THE DIGITAL PORTION

DATA SHEETS

Page: 1 of 1

Test location: Compatible Electronics
Customer : MICROTEK ELECTRONICS, INC. Date : 1/14/2003
Manufacturer : MICROTEK ELECTRONICS, INC. Time : 17.56
EUT name : VIDEO TRANSMITTER Model: 2.4THP-90
Specification: Fcc_B Test distance: 3.0 mtrs Lab: D
Distance correction factor(20*log(test/spec)) : 0.00
Test Mode :

SPURIOUS EMISSIONS FROM THE DIGITAL PORTION 10 kHz to 25000 MHz
VERTICAL and HORIZONTAL POLARIZATIONS
TEMPERATURE 69 DEGREES F., RELATIVE HUMIDITY 42%
TESTED BY: KYLE FUJIMOTO

NO SPURIOUS EMISSIONS FOUND FROM THE DIGITAL PORTION BETWEEN 10 kHz AND 25000 MHz IN EITHER POLARIZATION FOR THE EUT FROM THE DIGITAL PORTION

RADIATED SPURIOUS EMISSIONS ON THE TRANSMITTER PORTION DATA SHEETS

FCC Part 90
Microtek Electronics, Inc. Date: 01/14/03
Video Transmitter Lab: D
Model: 2.4THP-90 Tested By: Kyle Fujimoto
Temperature: 16 Degrees Celsisus, Relative Humidity 65%
Test Description: Operating Mode - Spurious Emissions
Vertical Polarization - Using the Substitution Method

Freq. (MHz)	Reference Level (dBm)*	Power** (dBm)	Antenna Gain*** (dBi)	Corr'd Power^ (dBm)	Delta (dB)	Power Limit (dBm)
4912.02	-45.9	-34.6	9.55	-25.05	-12.05	-13
7368.03	-59.8	-48.3	8.76	-39.54	-26.54	-13
9824.04	-70.4	-44.9	10.54	-34.36	-21.36	-13
4940	-50.1	-38.2	9.5	-28.7	-15.7	-13
7410	-60.5	-48.6	8.81	-39.79	-26.79	-13
9880	-71.2	-48	10.55	-37.45	-24.45	-13
4954.1	-50.3	-37.7	9.47	-28.23	-15.23	-13
7431	-61.7	-48.6	8.83	-39.77	-26.77	-13
9908	-71.5	-49.5	10.5	-39	-26	-13

*The Reference Level is the meter reading off the Spectrum Analyzer after maximizing the EUT for Field Strength.

** Power = Output of Signal Generator where the signal is injected into the Subsitution Ant. The Output of the Signal Generator is obtained when the output matches the Reference Level

*** The gain of the subsitution antenna

^ The Corr'd Power (dBm) = Power (dBm) + Antenna Gain (dBi).

No Emissions were Found after the 3rd Harmonic

FCC Part 90
Microtek Electronics, Inc. Date: 01/14/03
Video Transmitter Lab: D
Model: 2.4THP-90 Tested By: Kyle Fujimoto
Temperature: 16 Degrees Celsisus, Relative Humidity 65%
Test Description: Operating Mode - Spurious Emissions
Horizontal Polarization - Using the Substitution Method

Freq. (MHz)	Reference Level (dBm)*	Power** (dBm)	Antenna Gain*** (dBi)	Corr'd Power^ (dBm)	Delta (dB)	Power Limit (dBm)
4912.02	-50.5	-35.8	9.55	-26.25	-13.25	-13
7368.03	-59.7	-45.1	8.76	-36.34	-23.34	-13
9824.04	-68.1	-43.7	10.54	-33.16	-20.16	-13
4940	-50.4	-36.9	9.5	-27.4	-14.4	-13
7410	-59.8	-45.3	8.81	-36.49	-23.49	-13
9880	-69.9	-43.5	10.55	-32.95	-19.95	-13
4954.1	-50.7	-36.3	9.47	-26.83	-13.83	-13
7431	-59.5	-43.8	8.83	-34.97	-21.97	-13
9908	-69.4	-43.5	10.5	-33	-20	-13

*The Reference Level is the meter reading off the Spectrum Analyzer after maximizing the EUT for Field Strength.

** Power = Output of Signal Generator where the signal is injected into the Subsitution Ant. The Output of the Signal Generator is obtained when the output matches the Reference Level

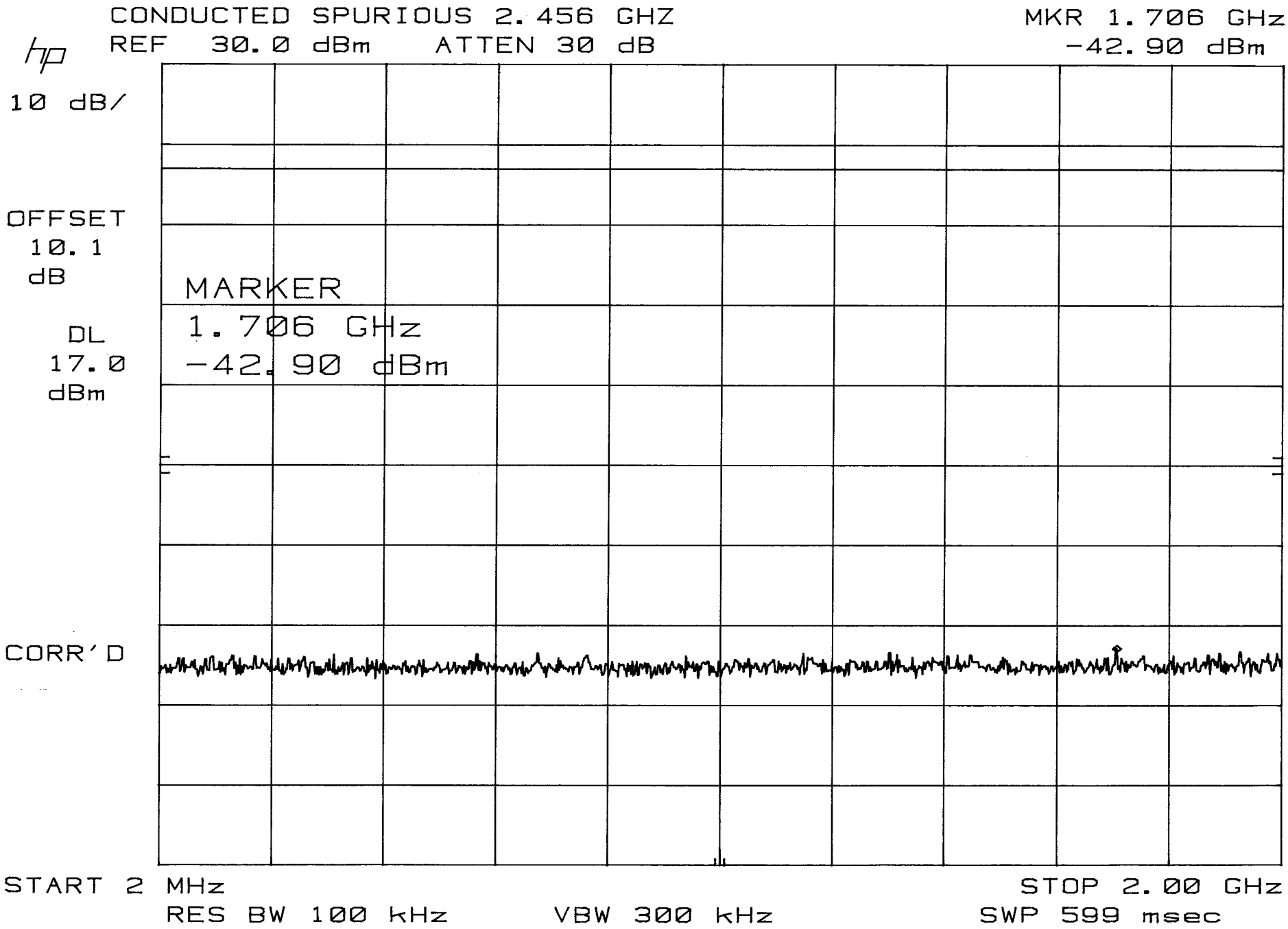
*** The gain of the subsitution antenna

^ The Corr'd Power (dBm) = Power (dBm) + Antenna Gain (dBi).

No Emissions were Found after the 3rd Harmonic

SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL

DATA SHEETS


CONDUCTED SPURIOUS 2.456 GHZ
MKR 1.706 GHz
REF 30.0 dBm ATTEN 30 dB
-42.90 dBm
10 dB/
OFFSET
10.1
dB
MARKER
1.706 GHz
-42.90 dBm
DL
17.0
dBm
CORR'D
START 2 MHz
STOP 2.00 GHz
RES BW 100 kHz
VBW 300 kHz
SWP 599 msec