

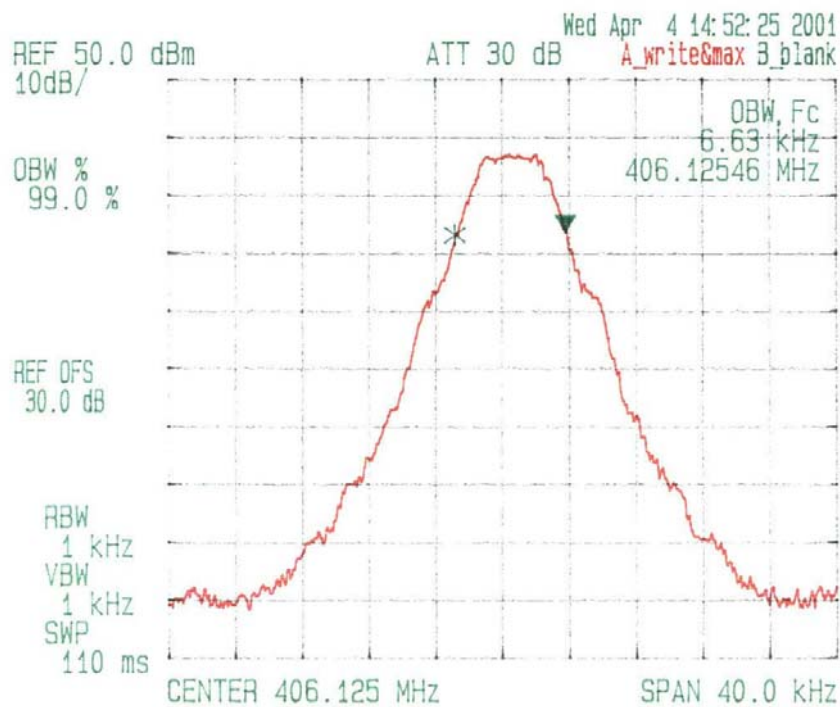
ANNEX 1 - TEST DATA PLOTS

Plot # 1
Occupied Bandwidth
Carrier Frequency: 406.125 MHz
Channel Spacing: 12.5 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 406.125 MHz, Power Output: 4.9 W, Channel Spacing: 12.5 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: 2.0 kHz
99 % OBW

Date: April 04 2001
Tested by: Hung Trinh



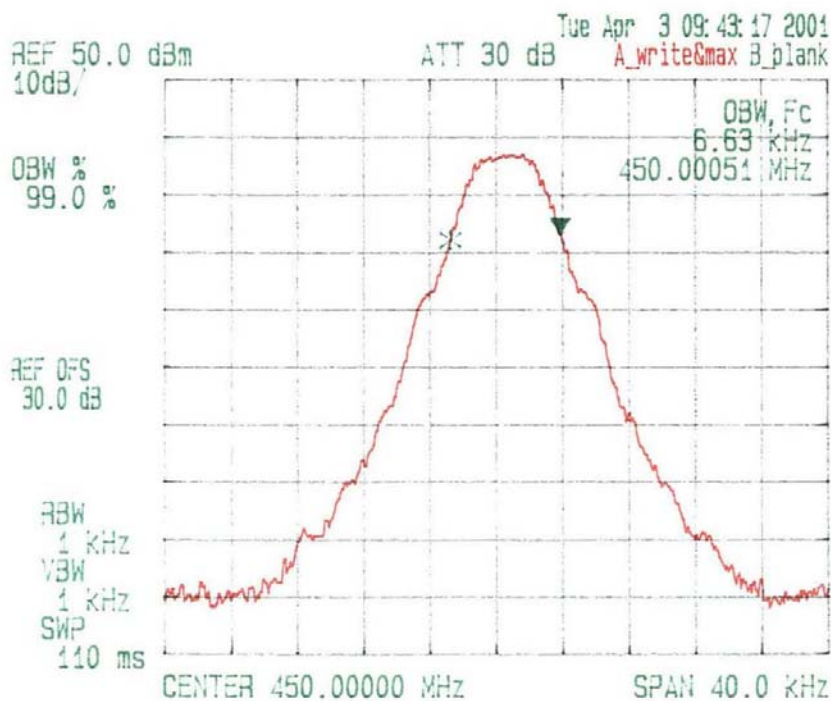
ANNEX 1 - TEST DATA PLOTS

Plot # 2
Occupied Bandwidth
Carrier Frequency: 450 MHz
Channel Spacing: 12.5 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 - 512 MHz
Frequency: 450 MHz, Power Output: 4.9 W, Channel Spacing: 12.5 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: 2.1 kHz
99 % OBW

Date: April 03, 2001
Tested by: Hung Trinh



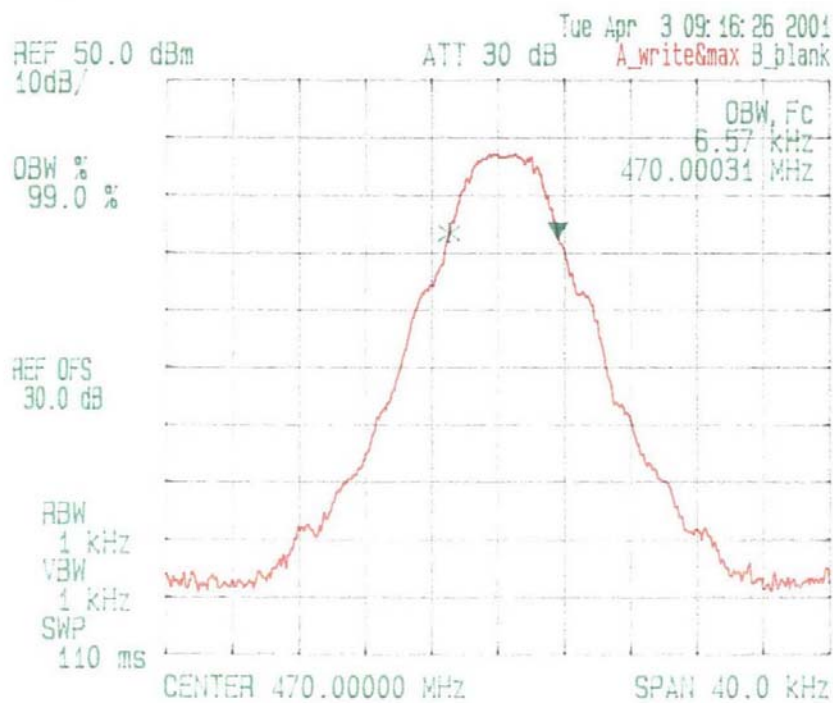
ANNEX 1 - TEST DATA PLOTS

Plot # 3
Occupied Bandwidth
Carrier Frequency: 470 MHz
Channel Spacing: 12.5 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 - 512 MHz
Frequency: 470 MHz, Power Output: 4.7 W, Channel Spacing: 12.5 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: 2 kHz
99 % OBW

Date: April 03 2001
Tested by: Hung Trinh



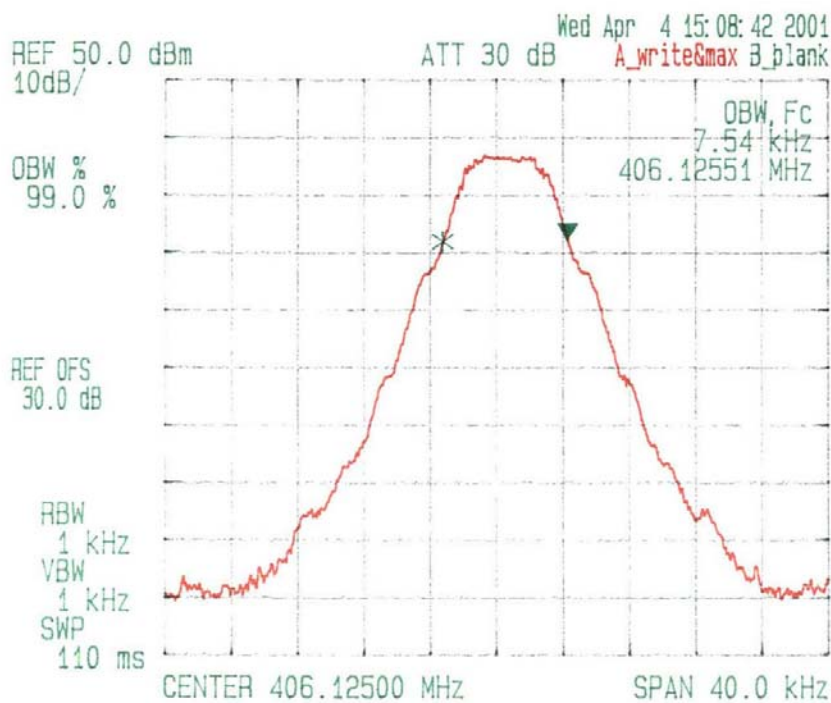
ANNEX 1 - TEST DATA PLOTS

Plot # 4
Occupied Bandwidth
Carrier Frequency: 406.125 MHz
Channel Spacing: 25 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 406.125 MHz, Power Output: 4.9 W, Channel Spacing: 25 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: 3.1 kHz
99 % OBW

Date: April 04 2001
Tested by: Hung Trinh



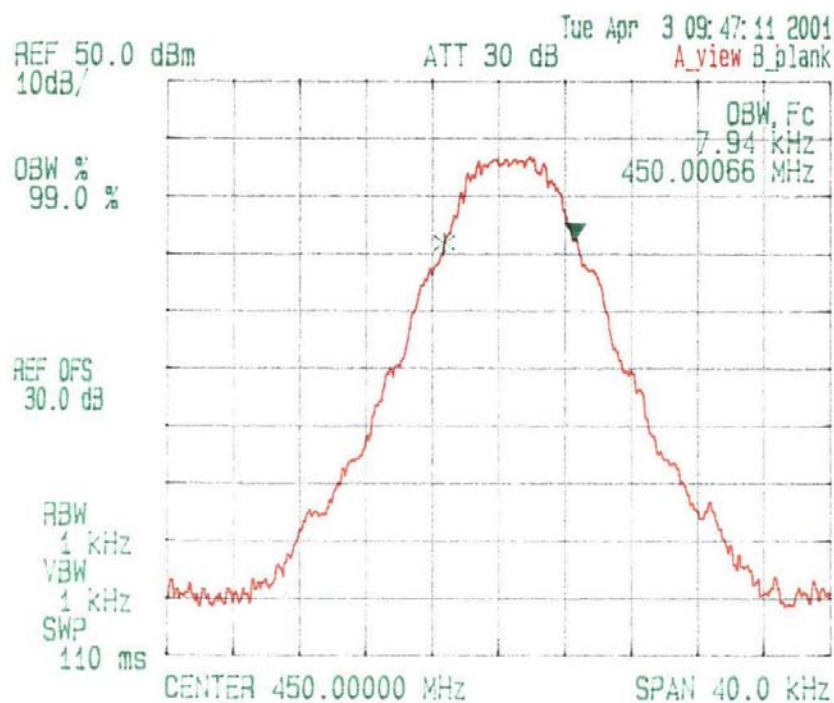
ANNEX 1 - TEST DATA PLOTS

Plot # 5
Occupied Bandwidth
Carrier Frequency: 450 MHz
Channel Spacing: 25 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 450 MHz, Power Output: 4.9 W, Channel Spacing: 25 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: 3.1 kHz
99 % OBW

Date: April 03 2001
Tested by: Hung Trinh



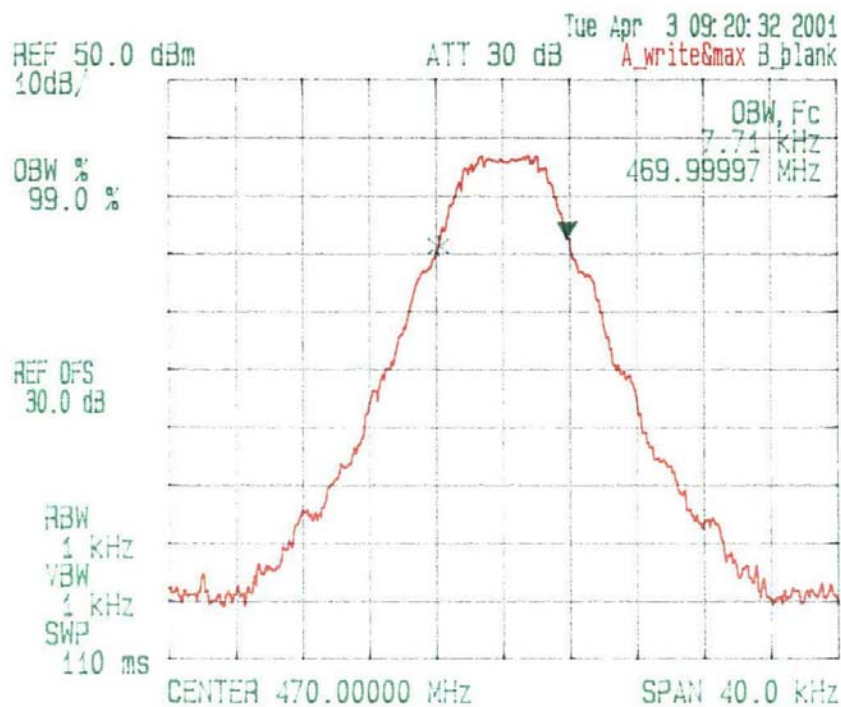
ANNEX 1 - TEST DATA PLOTS

Plot # 6
Occupied Bandwidth
Carrier Frequency: 470 MHz
Channel Spacing: 25 kHz
Power: 5 Watt
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 470 MHz, Power Output: 4.9 W, Channel Spacing: 25 kHz
Mod.: FM Modulation with an internal 9600 b/s random data. Freq. Dev.: 3.1 kHz
99 % OBW

Date: April 03 2001
Tested by: Hung Trinh



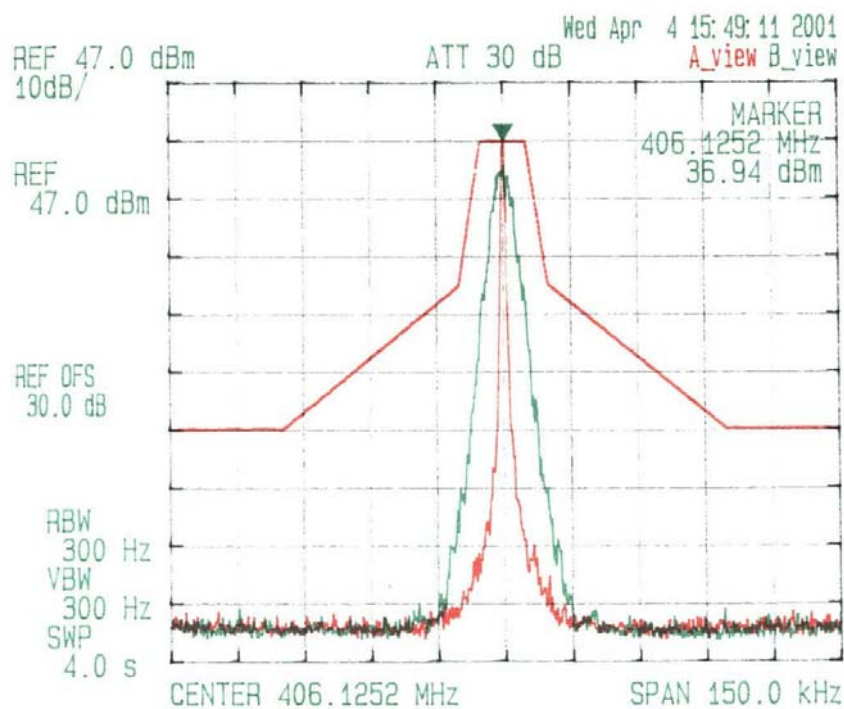
ANNEX 1 - TEST DATA PLOTS

Plot # 7
Emission Mask C
Carrier Frequency: 406.125 MHz
Channel Spacing: 25 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 406.125 MHz, Power Output: 4.9 W, Channel Spacing: 25 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: 2 kHz
MASK C

Date: April 04 2001
Tested by: Hung Trinh



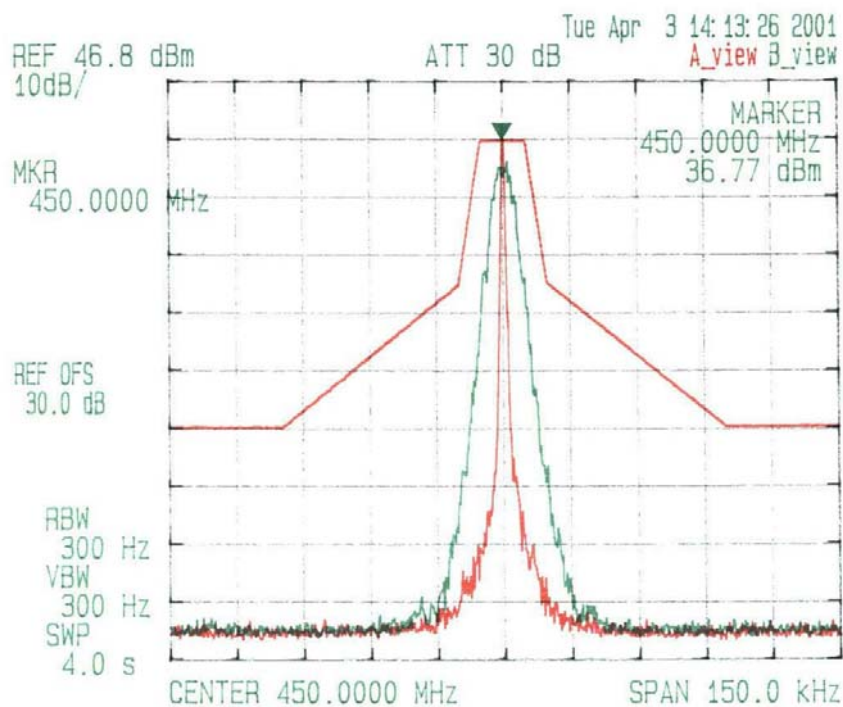
ANNEX 1 - TEST DATA PLOTS

Plot # 8
Emission Mask C
Carrier Frequency: 450 MHz
Channel Spacing: 25 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 450 MHz, Power Output: 4.9 W, Channel Spacing: 25 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: 7.1 kHz
MASK C

Date: April 03, 2001
Tested by: Hung Trinh



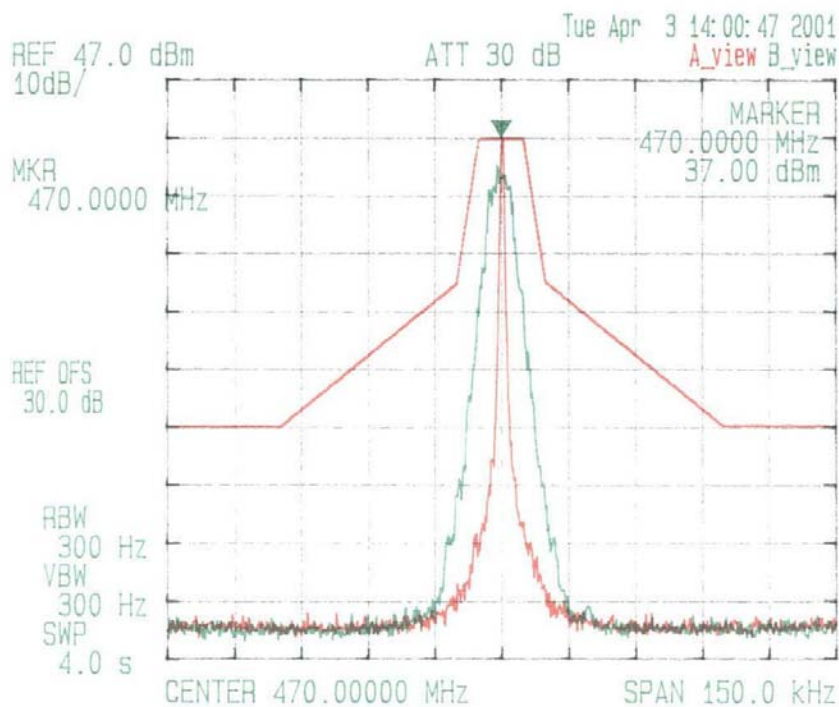
ANNEX 1 - TEST DATA PLOTS

Plot # 9
Emission Mask C
Carrier Frequency: 470 MHz
Channel Spacing: 25 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 470 MHz, Power Output: 4.9 W, Channel Spacing: 25 kHz
Mod: FM Modulation with an internal 9600 b/s random data, Freq. Dev: 3.1 kHz
MASK C

Date: April 23 2001
Tested by: Hung Trinh



ANNEX 1 - TEST DATA PLOTS

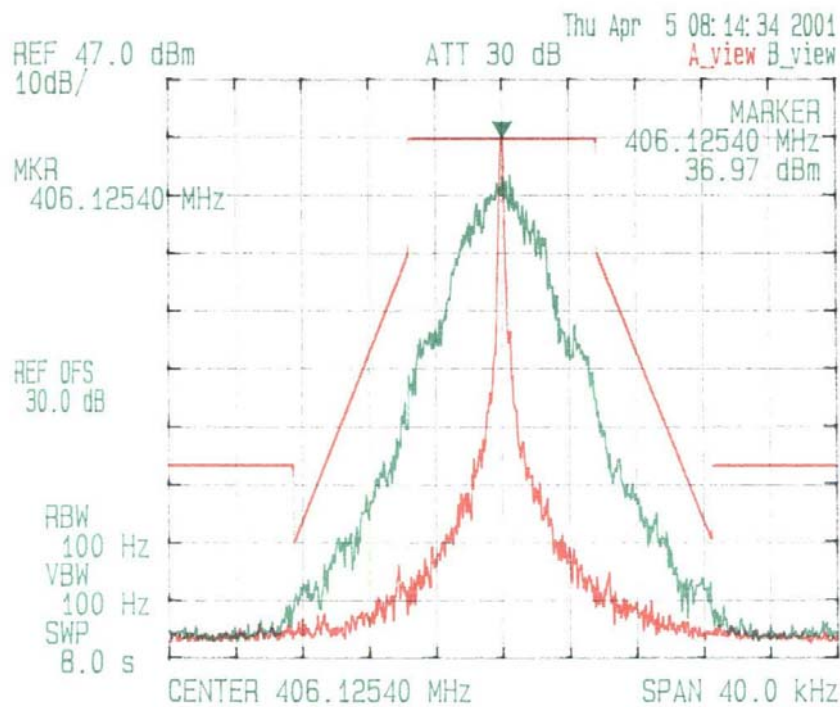
Plot # 10
Emission Mask D
Carrier Frequency: 406.125 MHz
Channel Spacing: 12.5 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



UltraTech
Engineering Labs Inc.

R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 406.125 MHz, Power Output: 4.9 W, Channel Spacing: 12.5 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: _____ kHz
MASK D

Date: April 04 2001
Tested by: Hung Trinh



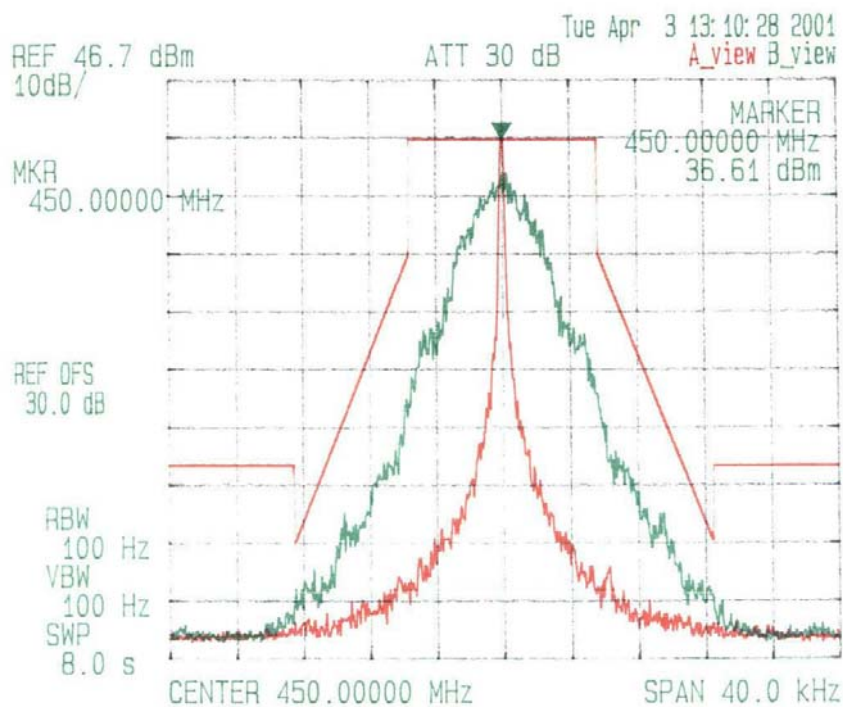
ANNEX 1 - TEST DATA PLOTS

Plot # 11
Emission Mask D
Carrier Frequency: 450 MHz
Channel Spacing: 12.5 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 450 MHz, Power Output: 44.9 W, Channel Spacing: 12.5 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev. 2.2 kHz
MASK D

Date: April 03 2001
Tested by: Hung Trinh



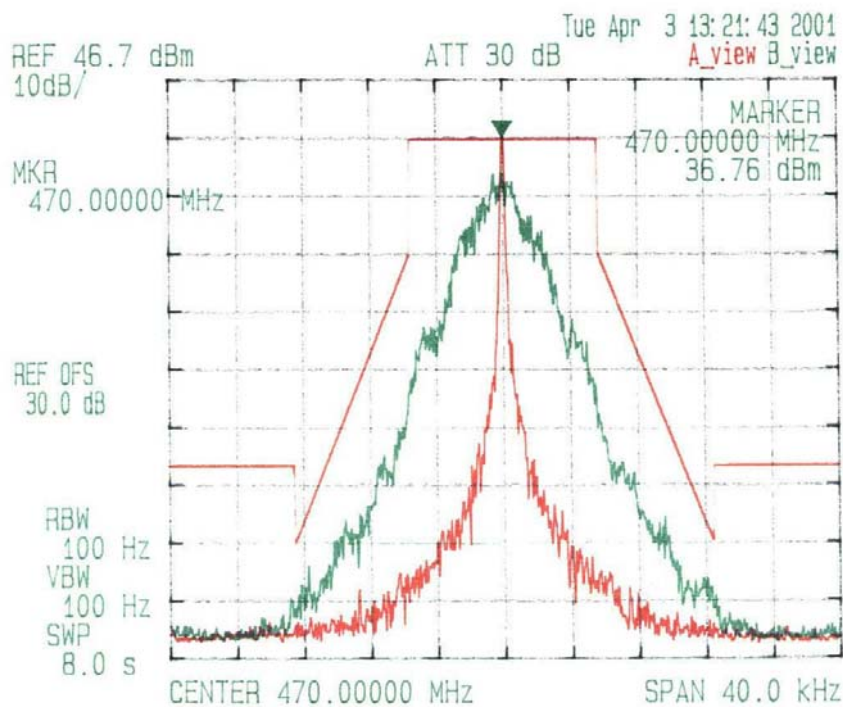
ANNEX 1 - TEST DATA PLOTS

Plot # 12
Emission Mask D
Carrier Frequency: 470 MHz
Channel Spacing: 12.5 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 470 MHz, Power Output: 4.9 W, Channel Spacing: 12.5 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: 7.2 kHz
MASK D

Date: April 03 2001
Tested by: Hung Trinh



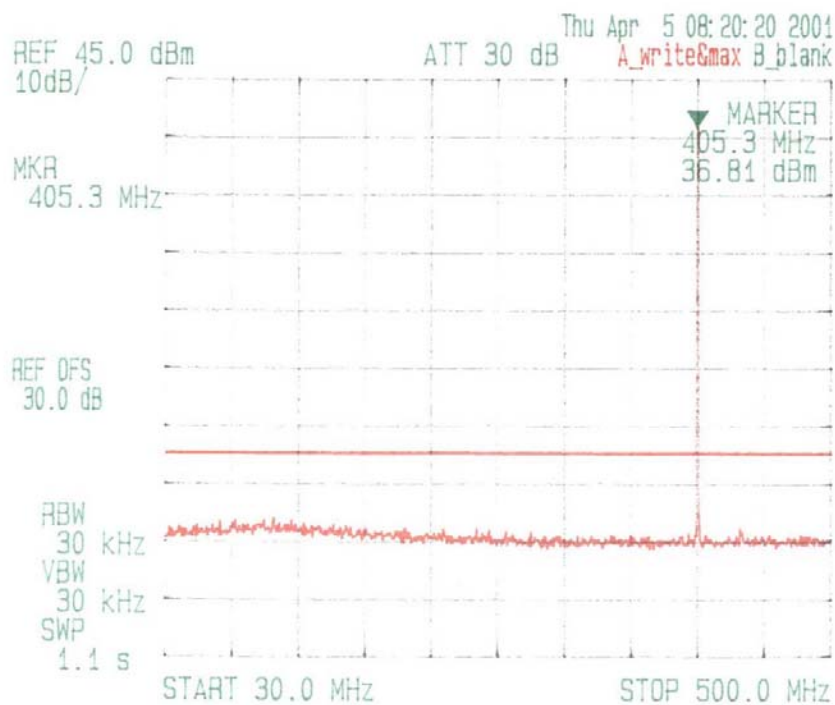
ANNEX 1 - TEST DATA PLOTS

Plot # 13
Spurious Emissions at Antenna Terminals
Carrier Frequency: 406.125 MHz
Channel Spacing: 12.5 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 406.125 MHz, Power Output: 4.5 W, Channel Spacing: 12.5 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: kHz
TRANSMITTER ANTENNA POWER CONDUCTED EMISSIONS

Date: April 04 2001
Tested by: Hung Trinh



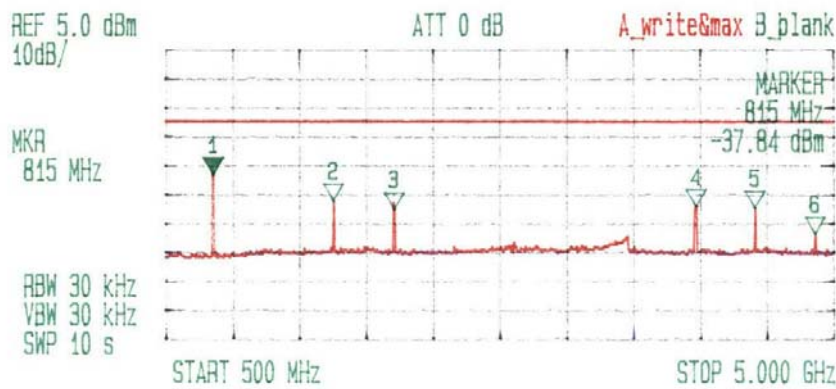
ANNEX 1 - TEST DATA PLOTS

Plot # 14
Spurious Emissions at Antenna Terminals
Carrier Frequency: 406.125 MHz
Channel Spacing: 12.5 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 406.125 MHz, Power Output: 4.9 W, Channel Spacing: 12.5 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: kHz
TRANSMITTER ANTENNA POWER CONDUCTED EMISSIONS

Date: April 2001
Tested by: Hung Trinh



*** Multi Marker List ***

No.1:	815 MHz	-37.84 dBm	A
No.2:	1.625 GHz	-46.66 dBm	A
No.3:	2.036 GHz	-49.72 dBm	A
No.4:	4.068 GHz	-48.63 dBm	A
No.5:	4.466 GHz	-49.34 dBm	A
No.6:	4.871 GHz	-58.19 dBm	A
No.7:			
No.8:			
Δ:			

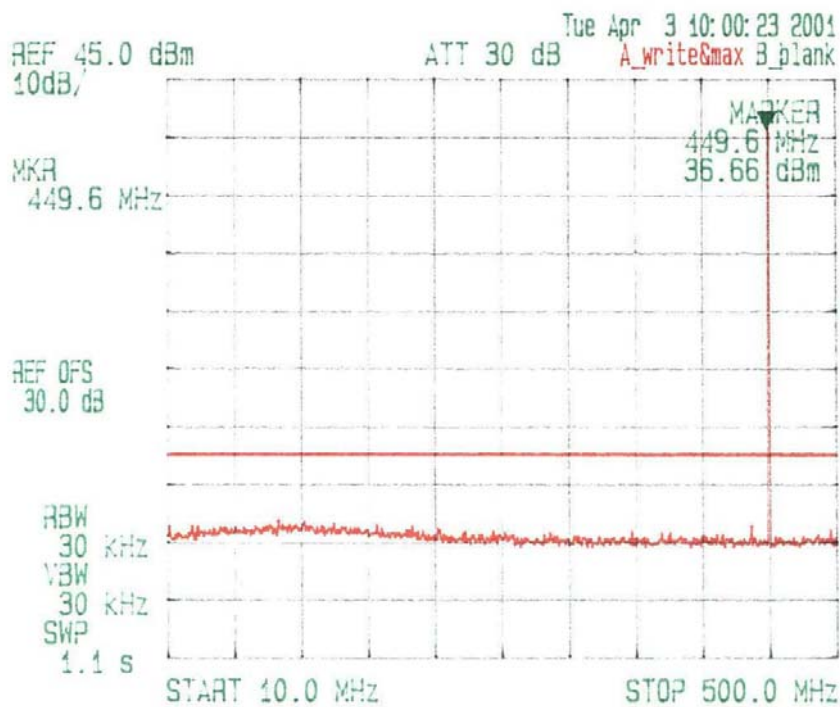
ANNEX 1 - TEST DATA PLOTS

Plot # 15
Spurious Emissions at Antenna Terminals
Carrier Frequency: 450 MHz
Channel Spacing: 12.5 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 450 MHz, Power Output: 4.9 W, Channel Spacing: 12.5 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: 3.2 kHz
TRANSMITTER ANTENNA POWER CONDUCTED EMISSIONS

Date: April 03 2001
Tested by: Hung Trinh



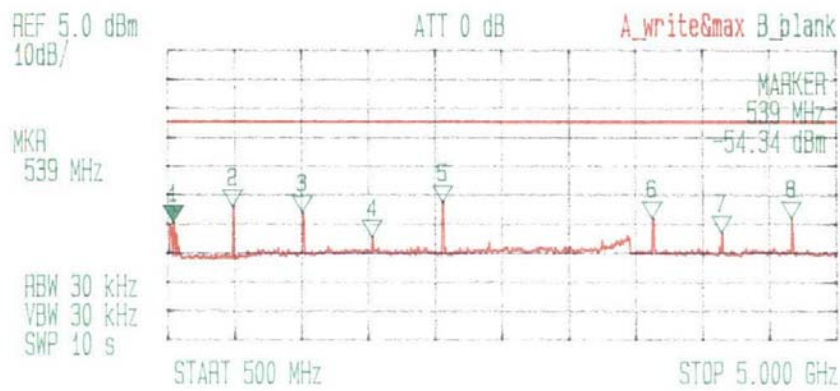
ANNEX 1 - TEST DATA PLOTS

Plot # 16
Spurious Emissions at Antenna Terminals
Carrier Frequency: 450 MHz
Channel Spacing: 12.5 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 450 MHz, Power Output: 4.7 W, Channel Spacing: 12.5 kHz
Mod: FM Modulation with an internal 9600 b/s random data, Freq. Dev: kHz
TRANSMITTER ANTENNA POWER CONDUCTED EMISSIONS

Date: April 23 2001
Tested by: Hung Trinh



*** Multi Marker List ***

No.1:	539 MHz	-54.34 dBm	A
No.2:	937 MHz	-48.75 dBm	A
No.3:	1.406 GHz	-50.81 dBm	A
No.4:	1.876 GHz	-59.13 dBm	A
No.5:	2.351 GHz	-47.31 dBm	A
No.6:	3.759 GHz	-52.94 dBm	A
No.7:	4.229 GHz	-57.94 dBm	A
No.8:	4.698 GHz	-52.88 dBm	A

Δ:

ANNEX 1 - TEST DATA PLOTS

Plot #17

Spurious Emissions at Antenna Terminals

Carrier Frequency: 470 MHz

Channel Spacing: 12.5 kHz

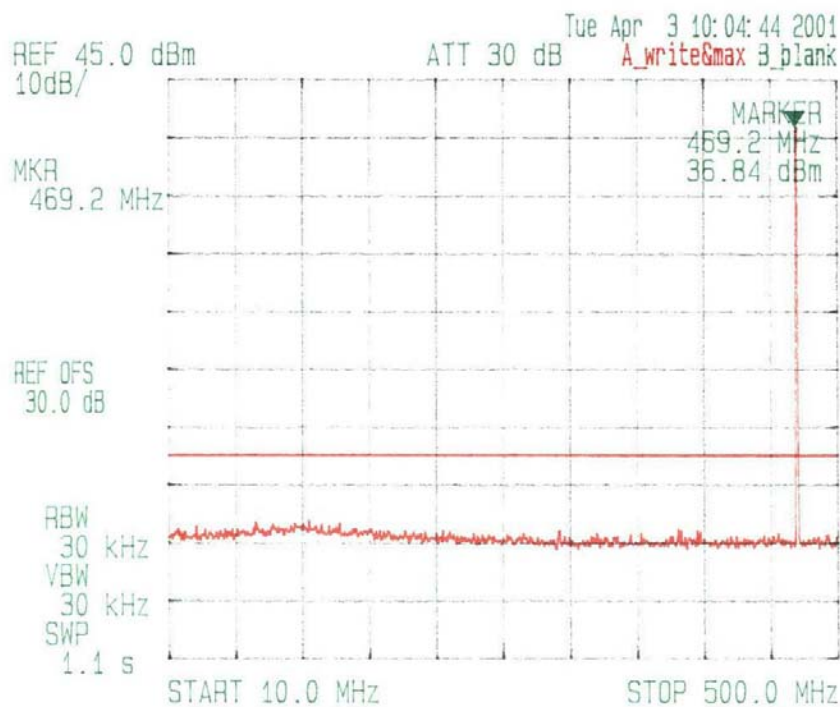
Power: 5 W

Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 470 MHz, Power Output: 4.9 W, Channel Spacing: 12.5 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: ± 2 kHz
TRANSMITTER ANTENNA POWER CONDUCTED EMISSIONS

Date: April 03 2001
Tested by: Hung Trinh



RF Data Tec

ART 400 Series Radio Modem, Model ART400TR, (400T), (400R)

FCC ID: P8W-ART400

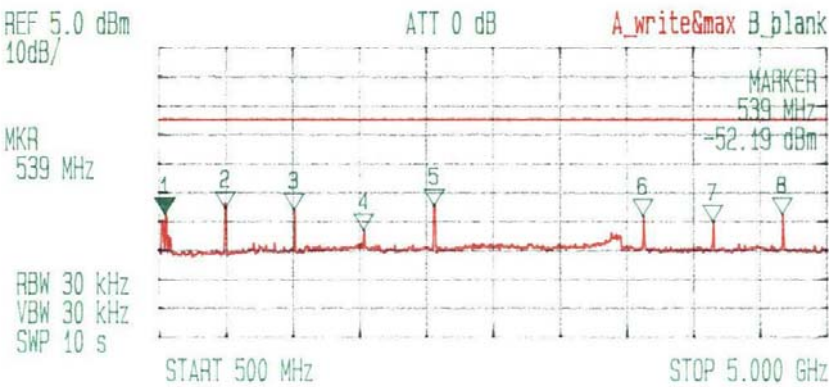
ANNEX 1 - TEST DATA PLOTS

Plot # 18
Spurious Emissions at Antenna Terminals
Carrier Frequency: 470 MHz
Channel Spacing: 12.5 kHz
Power: 5 W
Modulation: FM with 9600 baud random data rate



R.F. TECHNOLOGIES LTD.
ATR400 RADIO MODEMS, UHF 406 – 512 MHz
Frequency: 470 MHz, Power Output: 5 W, Channel Spacing: 12.5 kHz
Mod.: FM Modulation with an internal 9600 b/s random data, Freq. Dev.: 3 kHz
TRANSMITTER ANTENNA POWER CONDUCTED EMISSIONS

Date: April 23 2001
Tested by: Hung Trinh



*** Multi Marker List ***

No.1:	539 MHz	-52.19 dBm	A
No.2:	944 MHz	-50.28 dBm	A
No.3:	1.406 GHz	-50.75 dBm	A
No.4:	1.876 GHz	-57.81 dBm	A
No.5:	2.351 GHz	-49.38 dBm	A
No.6:	3.759 GHz	-52.75 dBm	A
No.7:	4.229 GHz	-54.97 dBm	A
No.8:	4.698 GHz	-52.47 dBm	A

ANNEX 1 - TEST DATA PLOTS

Plot # 19

Transient Frequency Behavior

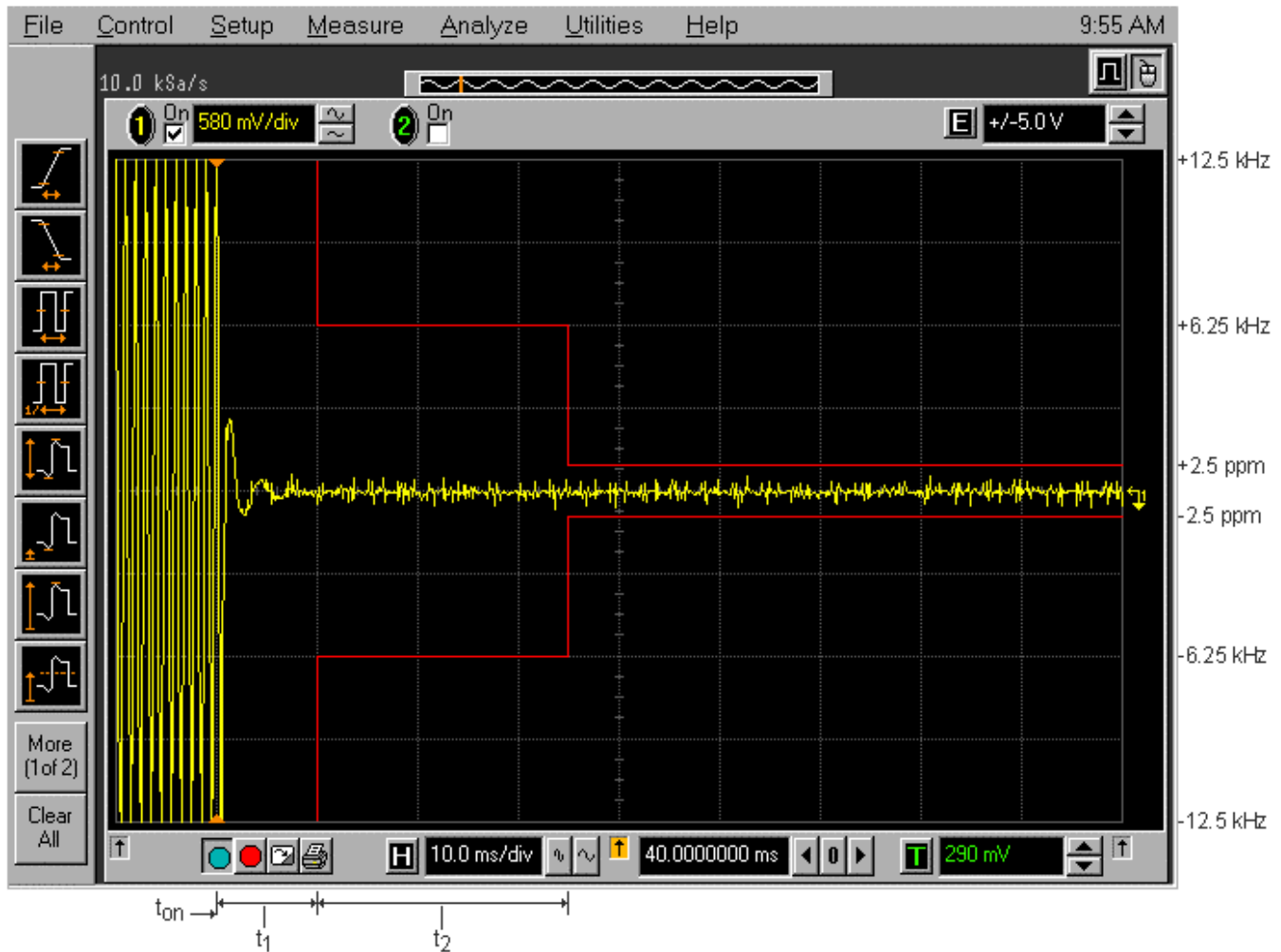
Carrier Frequency: 406.125 MHz

Channel Spacing: 12.5 kHz

Power: 5 W

Modulation: Unmodulated

Description: Switch on condition t_{on} , t_1 , and t_2



ANNEX 1 - TEST DATA PLOTS

Plot # 20

Transient Frequency Behavior

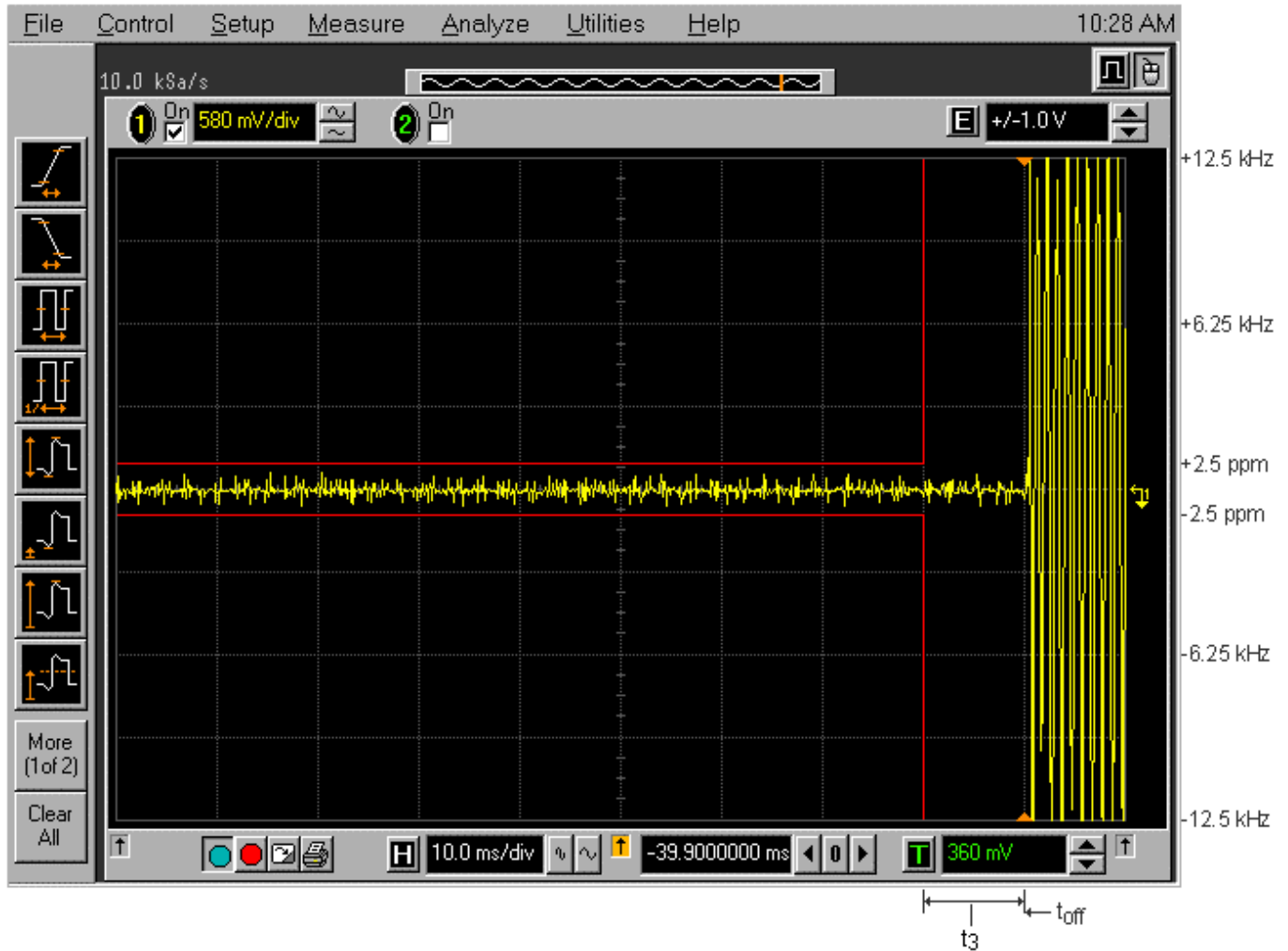
Carrier Frequency: 406.125 MHz

Channel Spacing: 12.5 kHz

Power: 5 W

Modulation: Unmodulated

Description: Switch off condition t_3 , t_{off}



RF Data Tec

ART 400 Series Radio Modem, Model ART400TR, (400T), (400R)

FCC ID: P8W-ART400

ANNEX 1 - TEST DATA PLOTS

Plot # 21

Transient Frequency Behavior

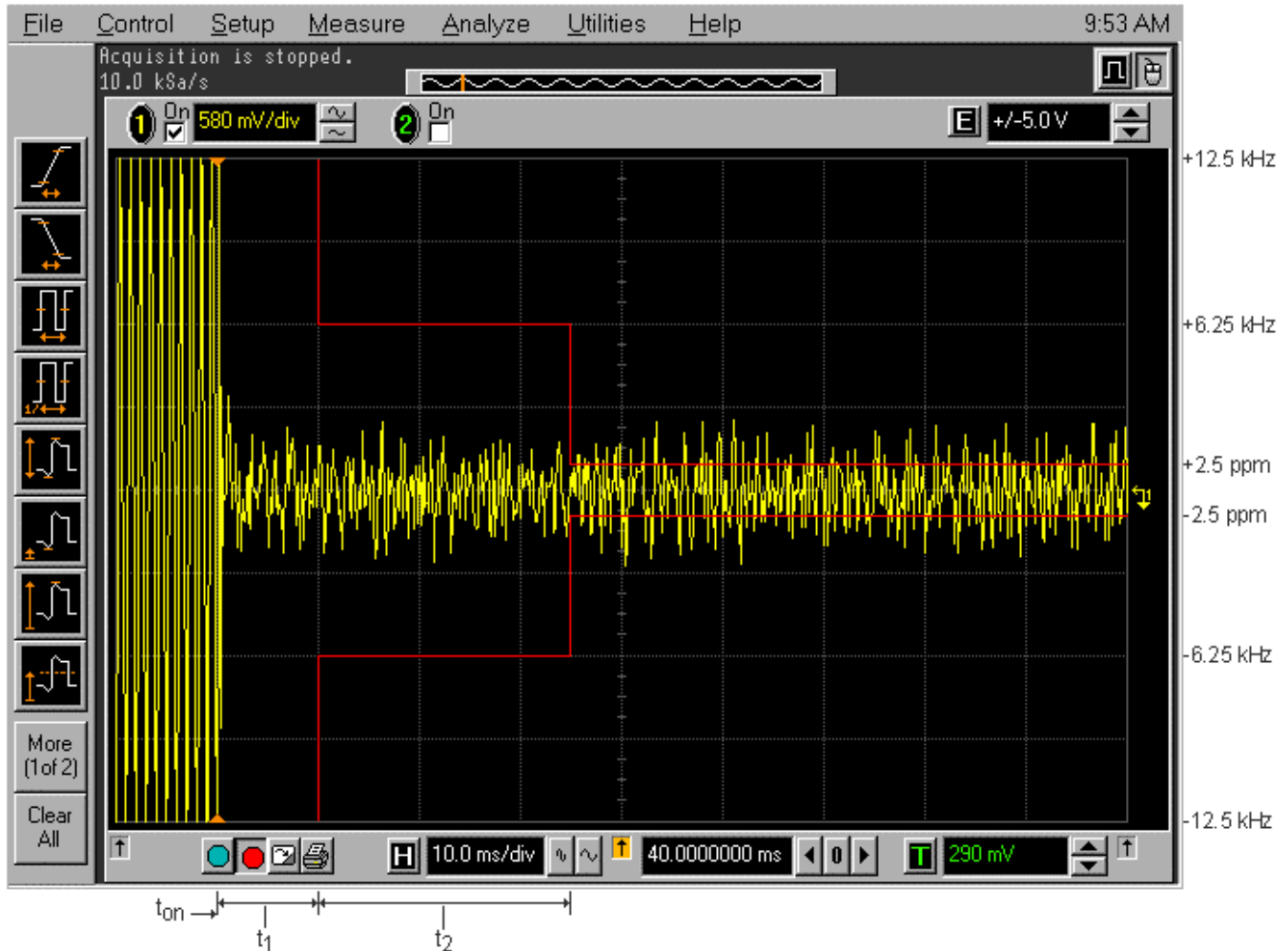
Carrier Frequency: 406.125 MHz

Channel Spacing: 12.5 kHz

Power: 5 W

Modulation: FM with 9600 baud random data rate

Description: Switch on condition t_{on} , t_1 , and t_2



RF Data Tec

ART 400 Series Radio Modem, Model ART400TR, (400T), (400R)

FCC ID: P8W-ART400

ANNEX 1 - TEST DATA PLOTS

Plot # 22

Transient Frequency Behavior

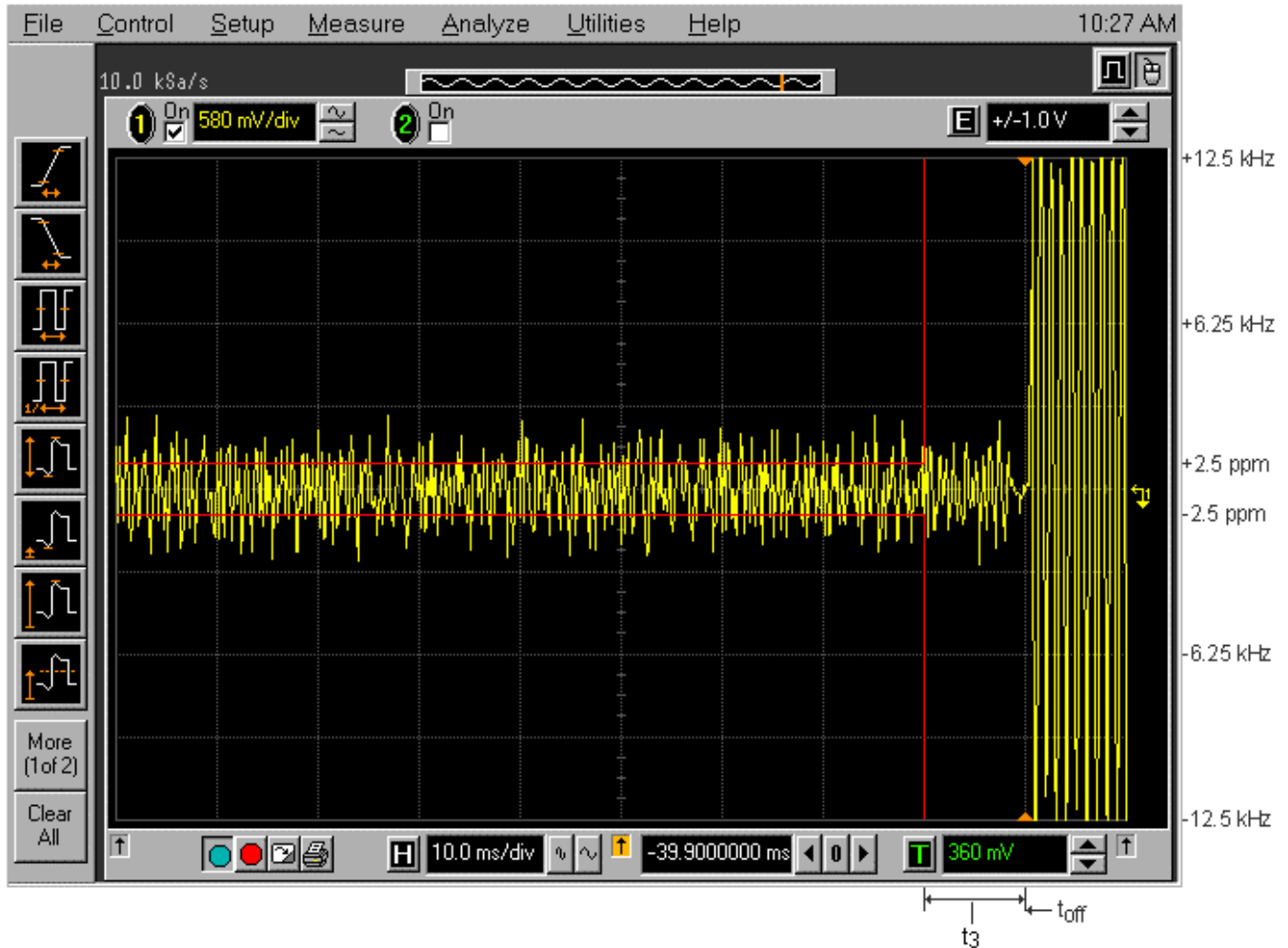
Carrier Frequency: 406.125 MHz

Channel Spacing: 12.5 kHz

Power: 5 W

Modulation: FM with 9600 baud random data rate

Description: Switch off condition t_3 , t_{off}



RF Data Tec

ART 400 Series Radio Modem, Model ART400TR, (400T), (400R)

FCC ID: P8W-ART400

ANNEX 1 - TEST DATA PLOTS

Plot # 23

Transient Frequency Behavior

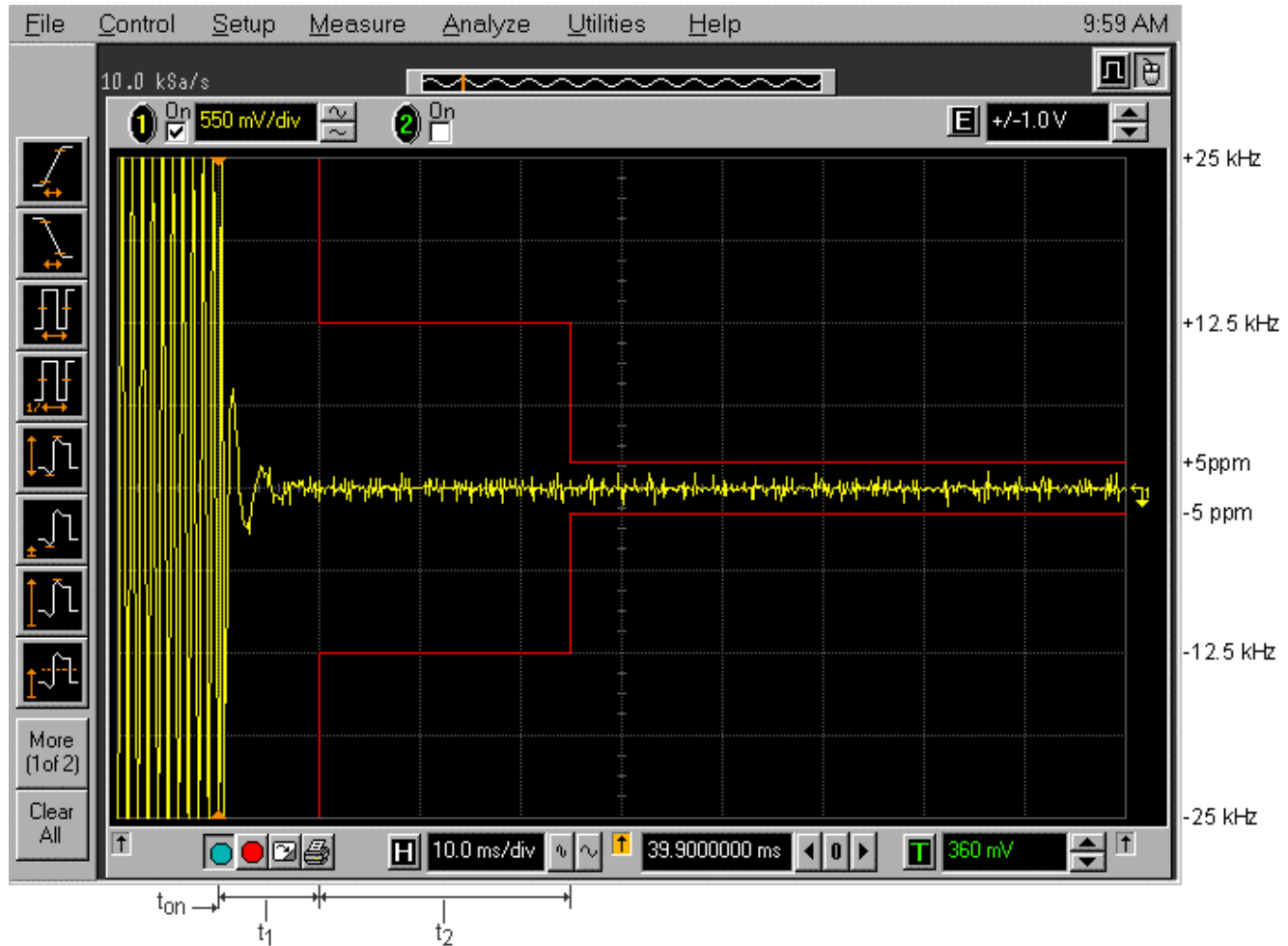
Carrier Frequency: 406.125 MHz

Channel Spacing: 25 kHz

Power: 5 W

Modulation: Unmodulated

Description: Switch on condition t_{on} , t_1 , and t_2



RF Data Tec

ART 400 Series Radio Modem, Model ART400TR, (400T), (400R)

FCC ID: P8W-ART400

ANNEX 1 - TEST DATA PLOTS

Plot # 24

Transient Frequency Behavior

Carrier Frequency: 406.125 MHz

Channel Spacing: 25 kHz

Power: 5 W

Modulation: Unmodulated

Description: Switch off condition t_3 , t_{off}



RF Data Tec

ART 400 Series Radio Modem, Model ART400TR, (400T), (400R)

FCC ID: P8W-ART400

ANNEX 1 - TEST DATA PLOTS

Plot # 25

Transient Frequency Behavior

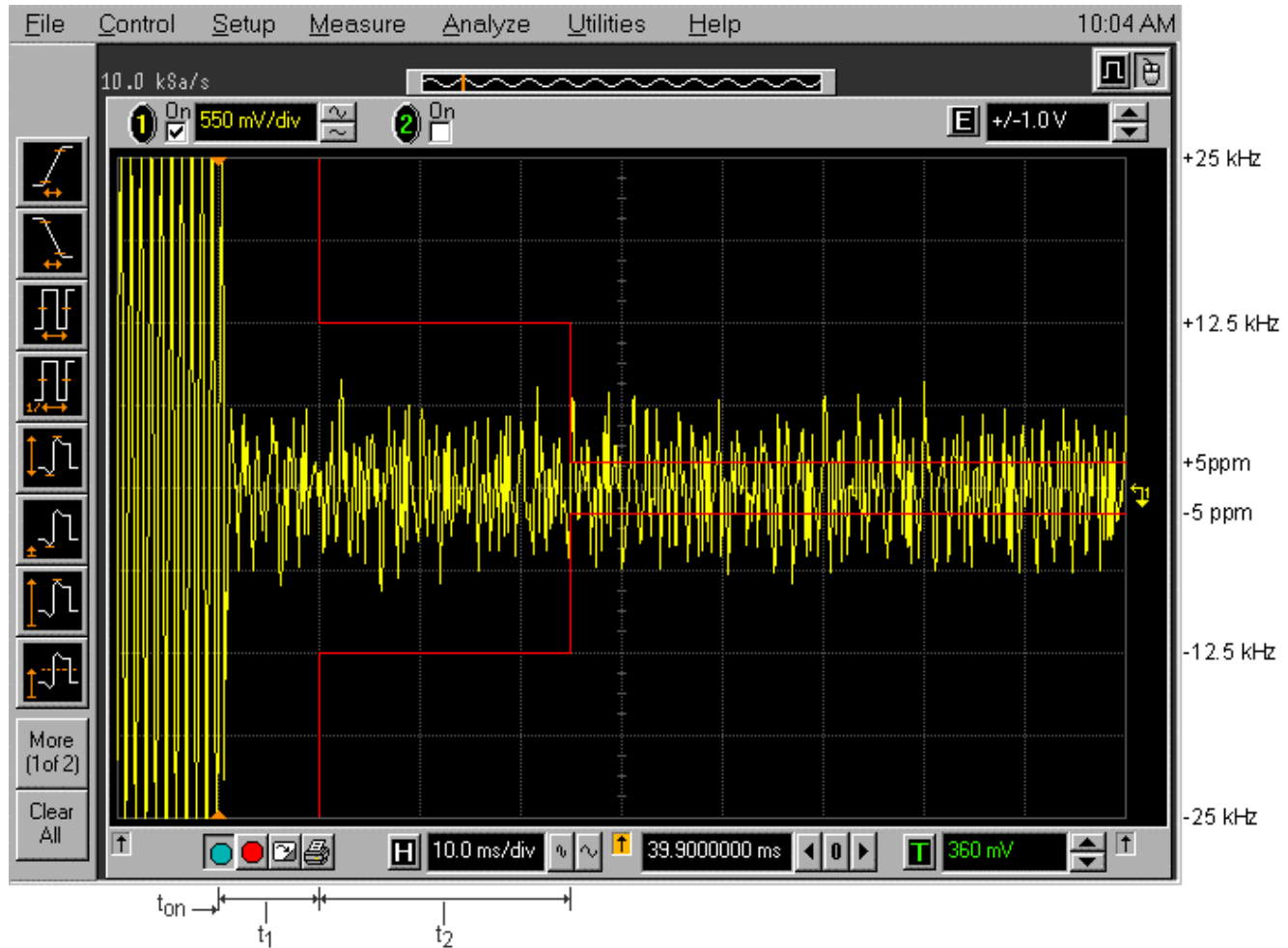
Carrier Frequency: 406.125 MHz

Channel Spacing: 25 kHz

Power: 5 W

Modulation: FM with 9600 baud random data rate

Description: Switch on condition t_{on} , t_1 , and t_2



RF Data Tec

ART 400 Series Radio Modem, Model ART400TR, (400T), (400R)

FCC ID: P8W-ART400

ANNEX 1 - TEST DATA PLOTS

Plot # 26

Transient Frequency Behavior

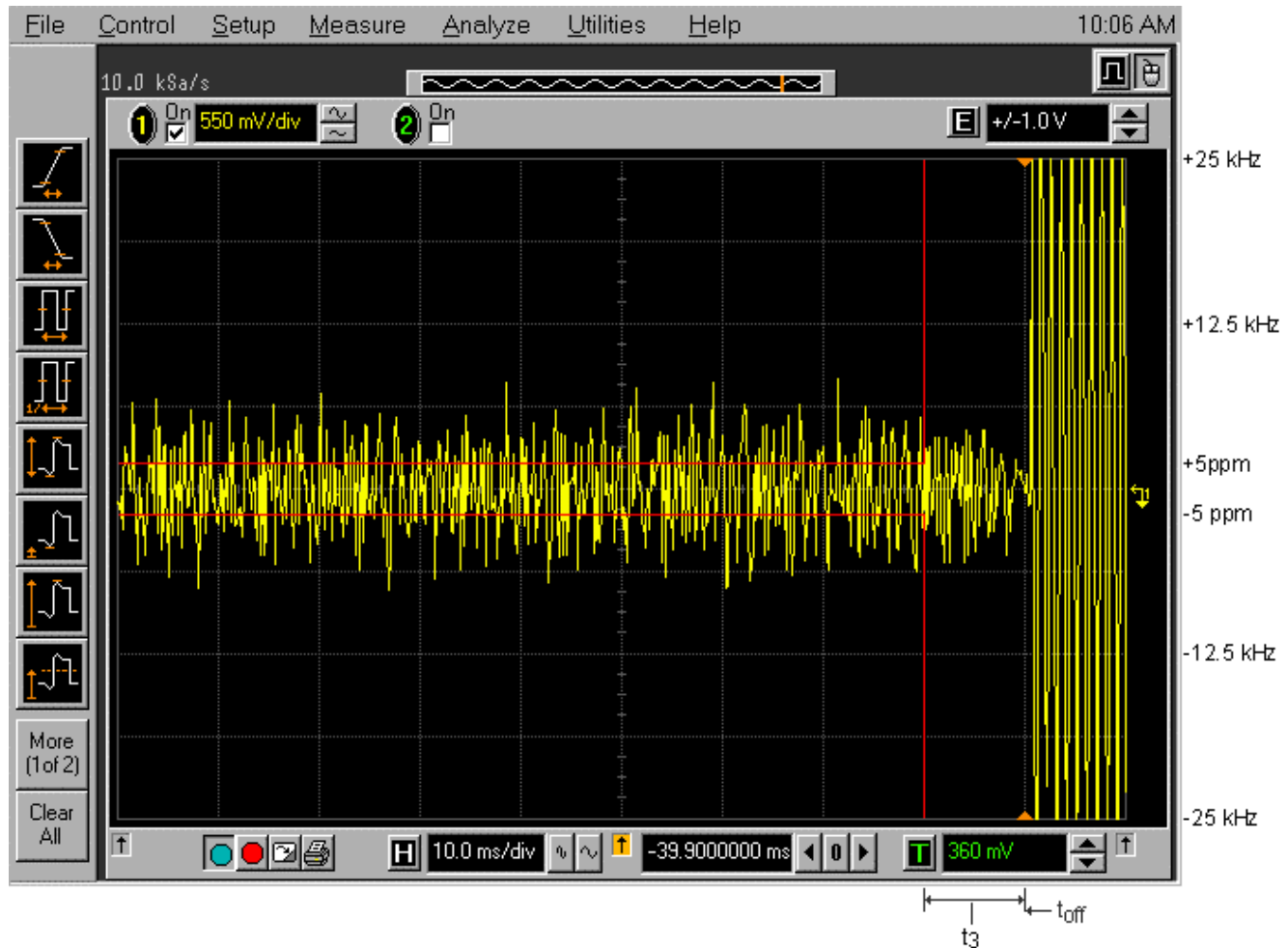
Carrier Frequency: 406.125 MHz

Channel Spacing: 25 kHz

Power: 5 W

Modulation: FM with 9600 baud random data rate

Description: Switch off condition t_3 , t_{off}



RF Data Tec

ART 400 Series Radio Modem, Model ART400TR, (400T), (400R)

FCC ID: P8W-ART400