

## ANNEX 1 - TEST DATA PLOTS

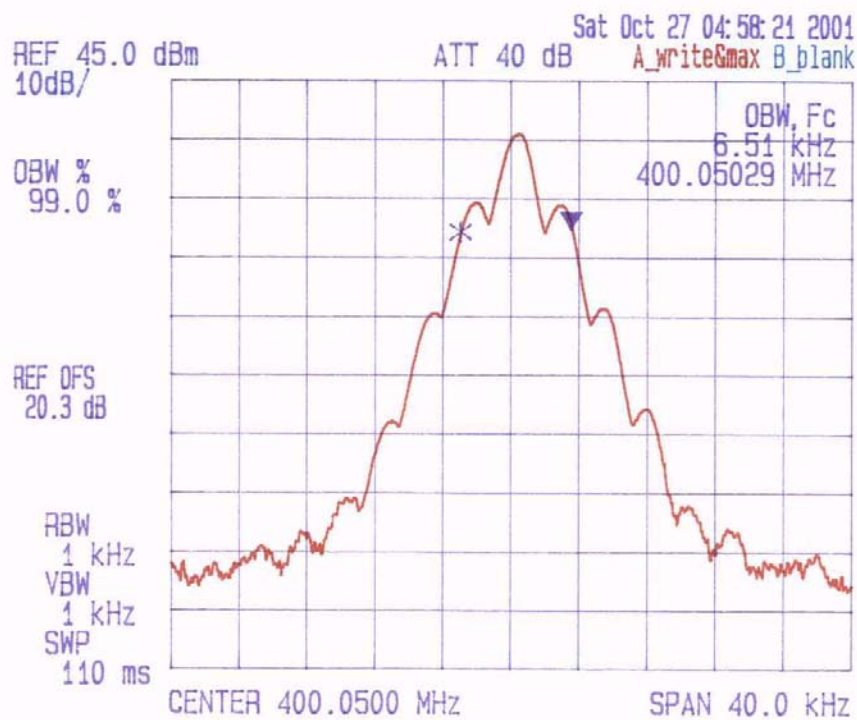
Plot # 1  
Occupied Bandwidth  
Carrier Frequency: 400.05 MHz  
Channel Spacing: 12.5 kHz  
Power: 4 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 1, Tx Freq.: 400.05 MHz, Output Power: 4 W Channel Spacing: 12.5 kHz  
Modulation: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.5 kHz  
99 % OBW

Date: Oct. 27, 2001  
Tested by: Hung Trinh

PLOT #1



## ANNEX 1 - TEST DATA PLOTS

Plot # 2

Occupied Bandwidth

Carrier Frequency: 415.05 MHz

Channel Spacing: 12.5 kHz

Power: 4 W

Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 2, Tx Freq: 415.05 MHz, Output Power: 4.1 W Channel Spacing: 12.5 kHz  
Modulation: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.3 kHz  
99 % OBW

Date: Oct. 27, 2001  
Tested by: Hung Trinh

PLOT # 2



## ANNEX 1 - TEST DATA PLOTS

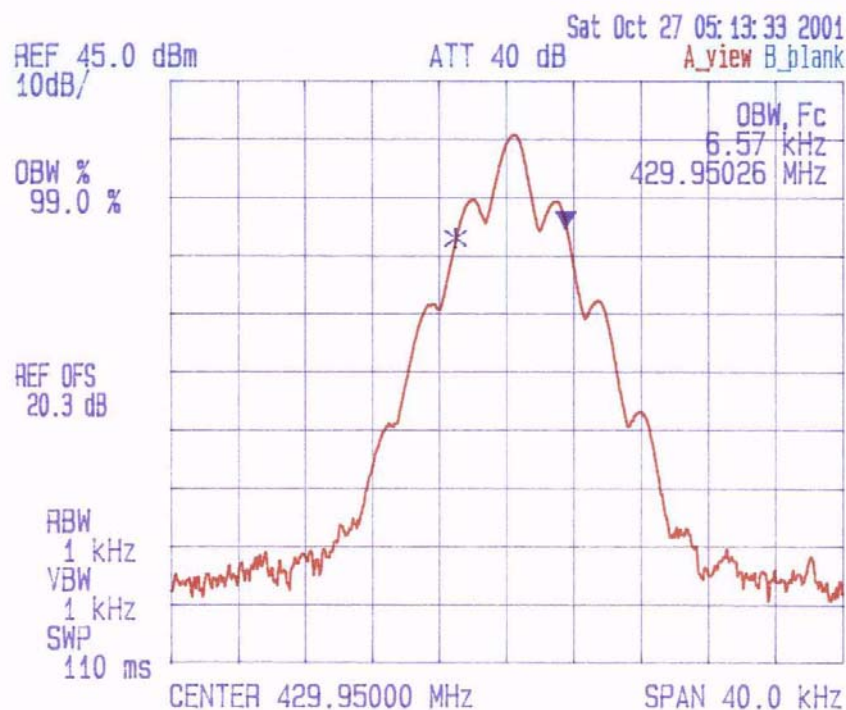
Plot # 3  
Occupied Bandwidth  
Carrier Frequency: 429.95 MHz  
Channel Spacing: 12.5 kHz  
Power: 4 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 3, Tx Freq: 429.95 MHz, Output Power: 4.1 W Channel Spacing: 12.5 kHz  
Modulation: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.5 kHz  
99 % OBW

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT # 3



## ANNEX 1 - TEST DATA PLOTS

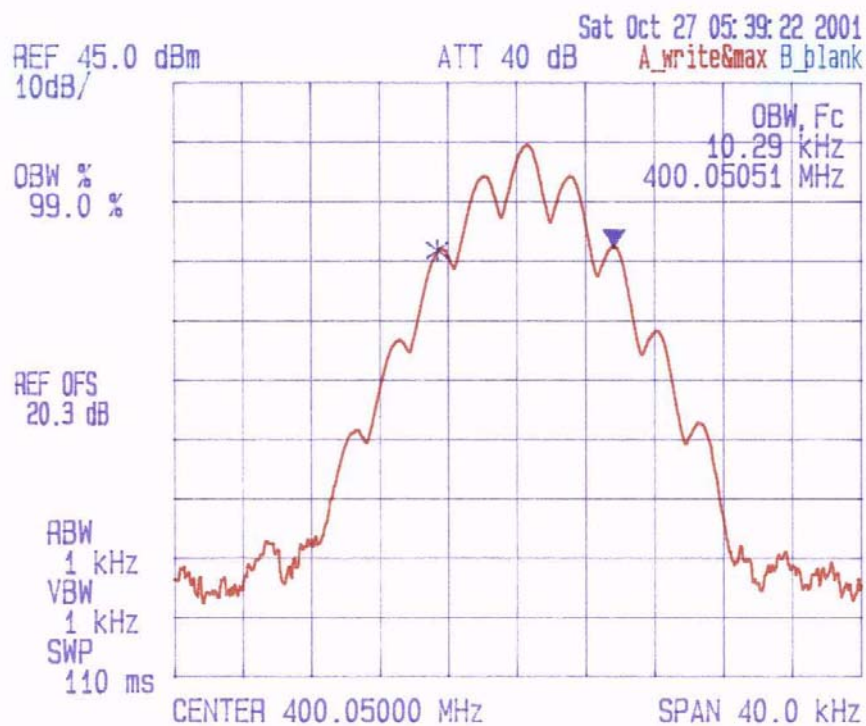
Plot # 4  
Occupied Bandwidth  
Carrier Frequency: 400.05 MHz  
Channel Spacing: 25 kHz  
Power: 4 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 4, Tx Freq.: 400.05 MHz, Output Power: 4.1 W Channel Spacing: 25 kHz  
Modulation: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 4.4 kHz  
99 % OBW

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT # 7



## ANNEX 1 - TEST DATA PLOTS

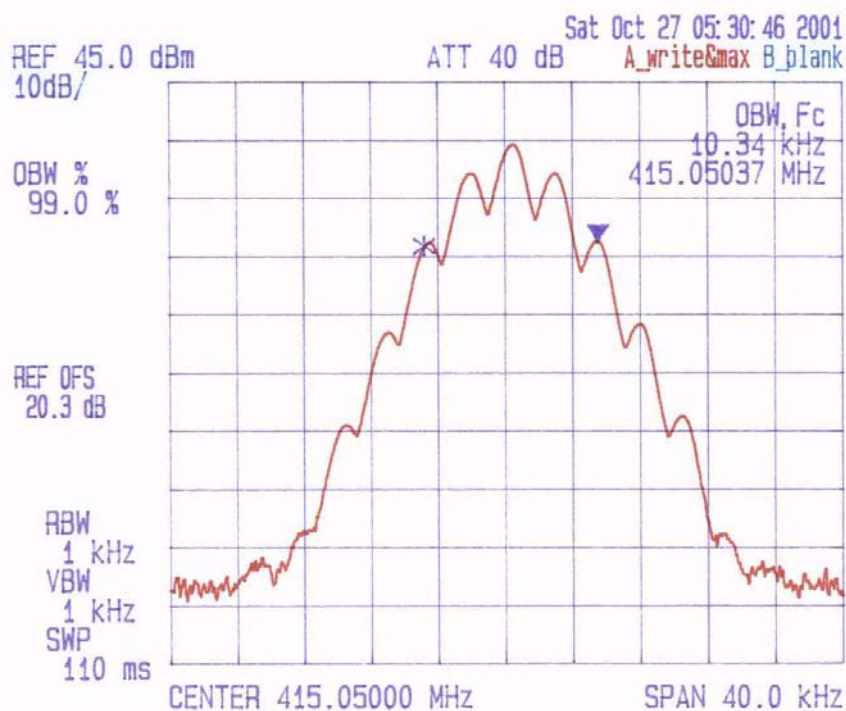
Plot # 5  
Occupied Bandwidth  
Carrier Frequency: 415.05 MHz  
Channel Spacing: 25 kHz  
Power: 4 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 5, Tx Freq.: 415.05 MHz, Output Power: 4.1 W Channel Spacing: 25 kHz  
Modulation: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 4.4 kHz  
99 % OBW

Date: Oct. 27, 2001  
Tested by: Hung Trinh

PLOT # 8



## ANNEX 1 - TEST DATA PLOTS

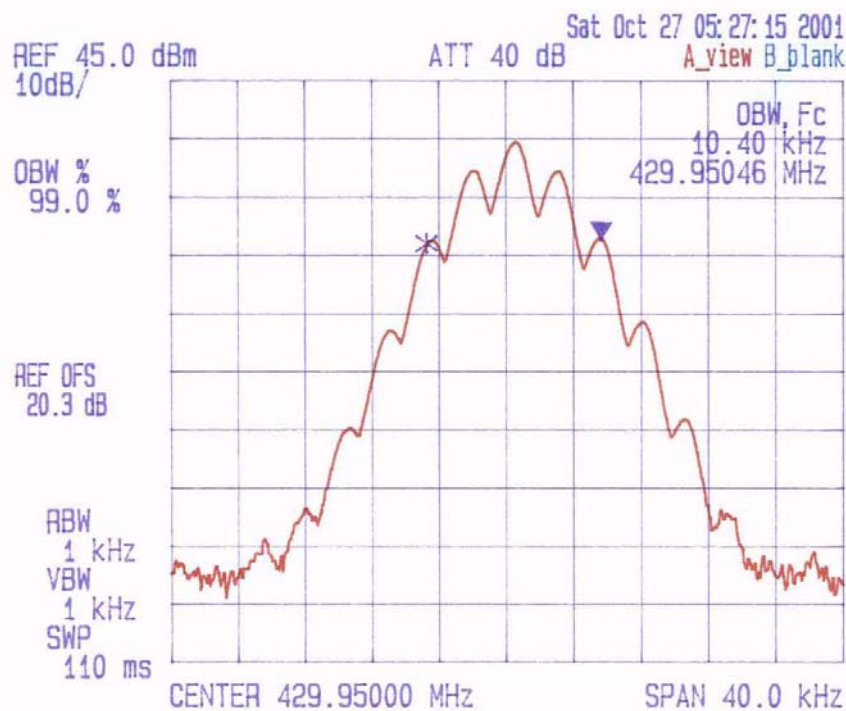
Plot # 6  
Occupied Bandwidth  
Carrier Frequency: 429.95 MHz  
Channel Spacing: 25 kHz  
Power: 4 Watt  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 6, Tx Freq.: 429.95 MHz, Output Power: 4.1 W Channel Spacing: 25 kHz  
Modulation.: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 4.5 kHz  
99 % OBW

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT # 9



## ANNEX 1 - TEST DATA PLOTS

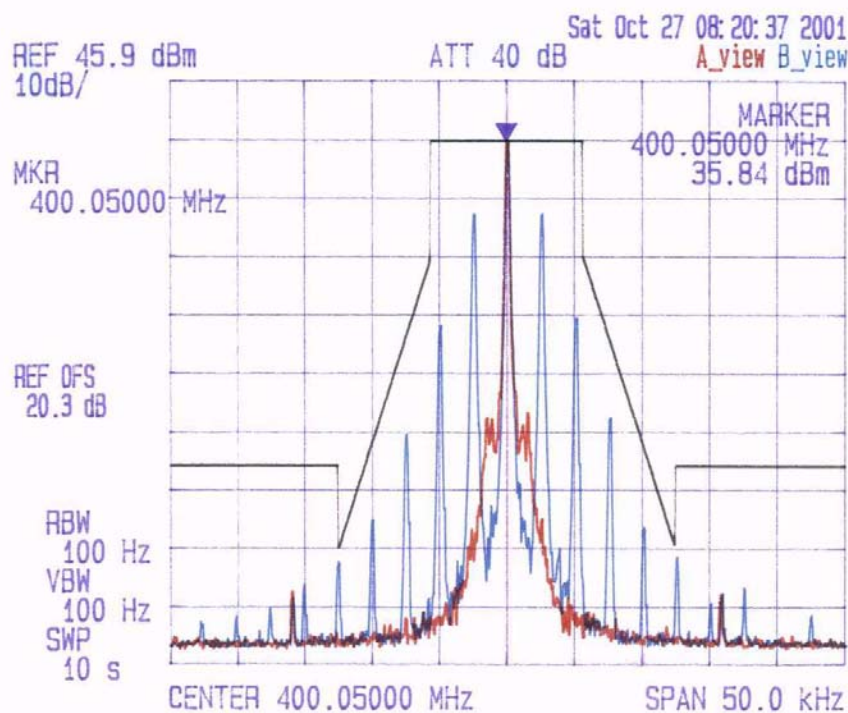
Plot # 7  
Emission Mask D  
Carrier Frequency: 400.05 MHz  
Channel Spacing: 12.5 kHz  
Power: 4 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 1, Tx Freq.: 400.05 MHz, Output Power: 4 W Channel Spacing: 12.5 kHz  
Modulation: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.5 kHz  
EMISSION MASK D

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT # 4



## ANNEX 1 - TEST DATA PLOTS

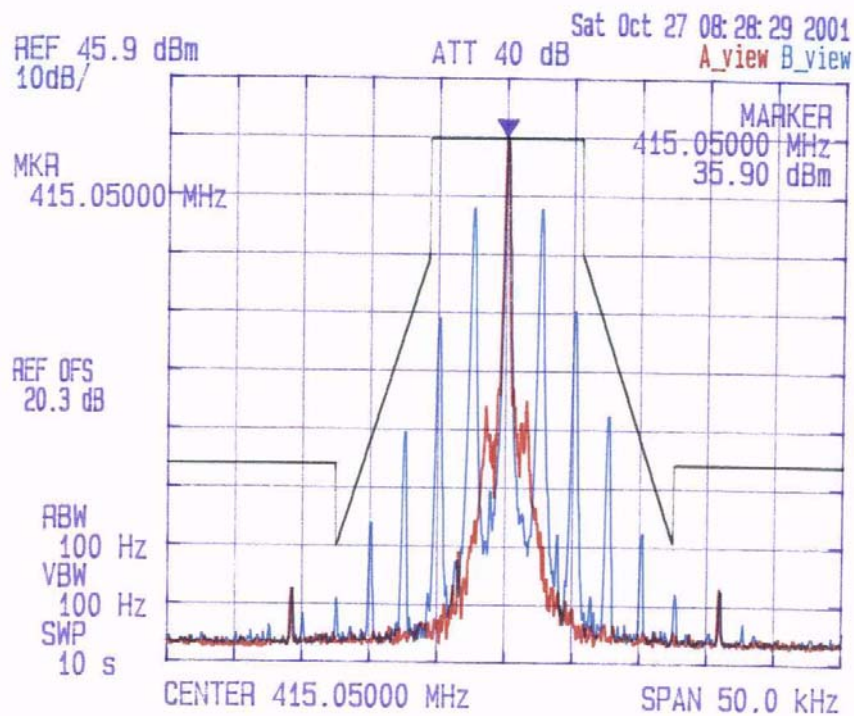
Plot # 8  
Emission Mask D  
Carrier Frequency: 415.05 MHz  
Channel Spacing: 12.5 kHz  
Power: 4 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 62, Tx Freq.: 415.05 MHz, Output Power: 4.1 W Channel Spacing: 12.5 kHz  
Modulation: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.5 kHz  
EMISSION MASK D

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT # 5



## ANNEX 1 - TEST DATA PLOTS

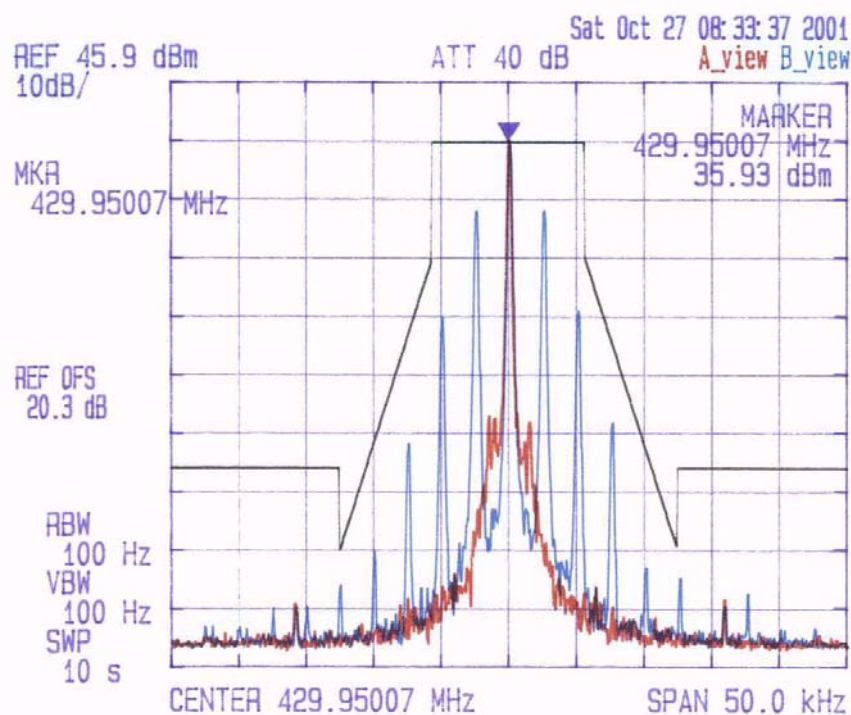
Plot # 9  
Emission Mask D  
Carrier Frequency: 429.95 MHz  
Channel Spacing: 12.5 kHz  
Power: 4 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 3, Tx Freq.: 429.95 MHz, Output Power: 4 W Channel Spacing: 12.5 kHz  
Modulation: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.5 kHz  
EMISSION MASK D

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT # 6



## ANNEX 1 - TEST DATA PLOTS

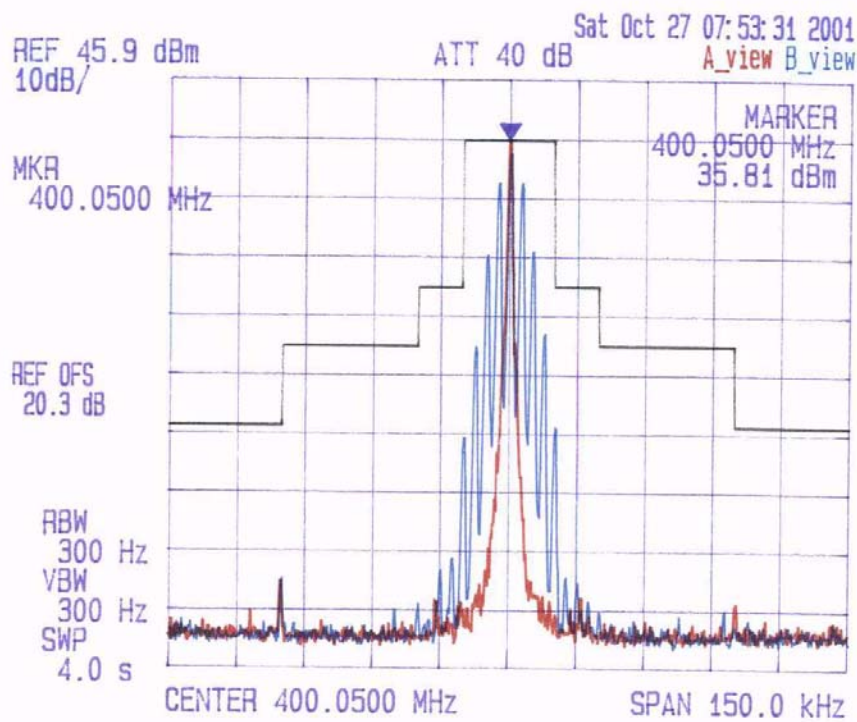
Plot # 10  
Emission Mask B  
Carrier Frequency: 400.05 MHz  
Channel Spacing: 25 kHz  
Power: 4 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 44, Tx Freq: 400.05 MHz, Output Power: 4.1 W Channel Spacing: 25 kHz  
Modulation: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 4.4 kHz  
EMISSION MASK B

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT#10



## ANNEX 1 - TEST DATA PLOTS

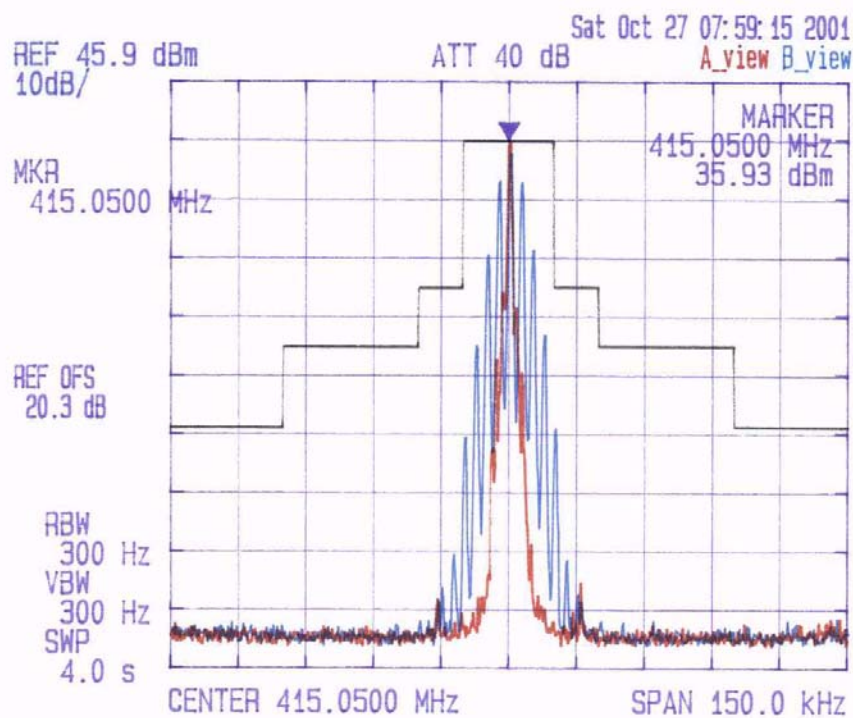
Plot # 11  
Emission Mask B  
Carrier Frequency: 415.05 MHz  
Channel Spacing: 25 kHz  
Power: 4 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 5, Tx Freq: 415.05 MHz, Output Power: 4.1 W Channel Spacing: 25 kHz  
Modulation: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 4.44 kHz  
EMISSION MASK B

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT # 11



## ANNEX 1 - TEST DATA PLOTS

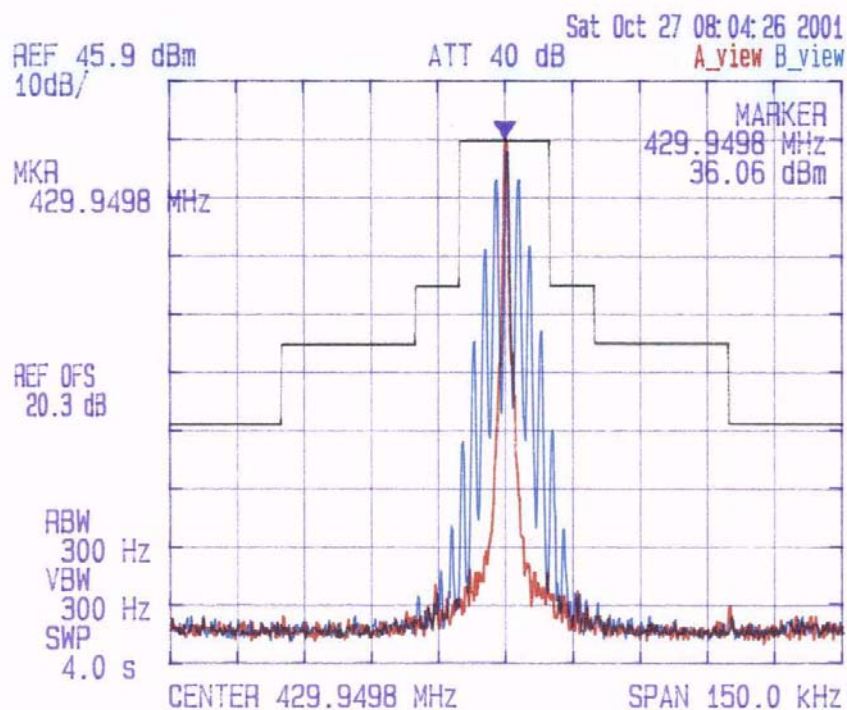
Plot # 12  
Emission Mask B  
Carrier Frequency: 429.95 MHz  
Channel Spacing: 25 kHz  
Power: 4 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: G, Tx Freq: 429.95 MHz, Output Power: 4.1 W Channel Spacing: 25 kHz  
Modulation: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 4.44 kHz  
EMISSION MASK B

Date: Oct. 27, 2001  
Tested by: Hung Trinh

PLOT# 12



## ANNEX 1 - TEST DATA PLOTS

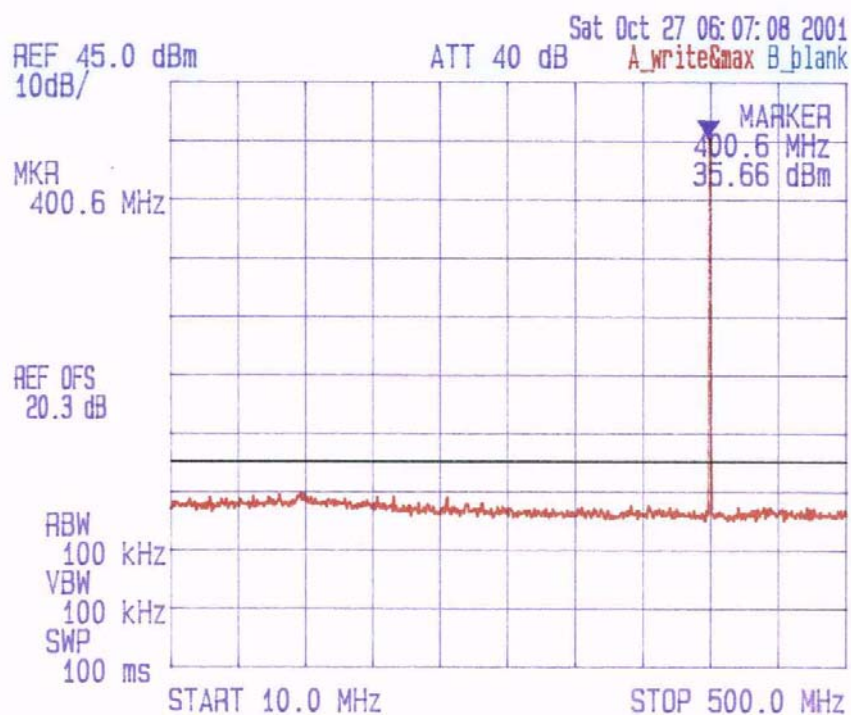
Plot # 13  
Spurious Emissions at Antenna Terminals  
Carrier Frequency: 400.05 MHz  
Channel Spacing: 12.5 kHz  
Power: 4 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 1, Tx Frequency: 400.05 MHz, Output Power: 4.1 W  
Mod.: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.5 kHz  
TRANSMITTER ANTENNA POWER CONDUCTED

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT # 13



## ANNEX 1 - TEST DATA PLOTS

Plot # 14

Spurious Emissions at Antenna Terminals

Carrier Frequency: 400.05 MHz

Channel Spacing: 12.5 kHz

Power: 4 W

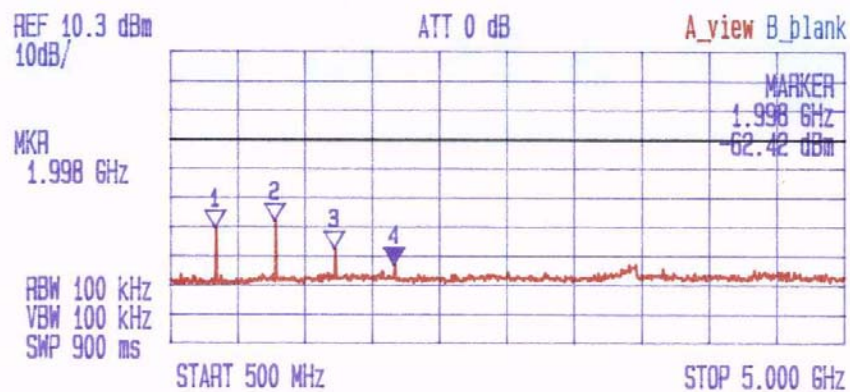
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 1, Tx Frequency: 400.05 MHz, Output Power: 4 W  
Mod.: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.5 kHz  
TRANSMITTER ANTENNA POWER CONDUCTED

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT#14



\*\*\* Multi Marker List \*\*\*

|       |           |            |   |
|-------|-----------|------------|---|
| No.1: | 802 MHz   | -49.86 dBm | A |
| No.2: | 1.201 GHz | -47.58 dBm | A |
| No.3: | 1.599 GHz | -56.92 dBm | A |
| No.4: | 1.998 GHz | -62.42 dBm | A |
| No.5: |           |            |   |
| No.6: |           |            |   |
| No.7: |           |            |   |
| No.8: |           |            |   |
| Δ:    |           |            |   |

## ANNEX 1 - TEST DATA PLOTS

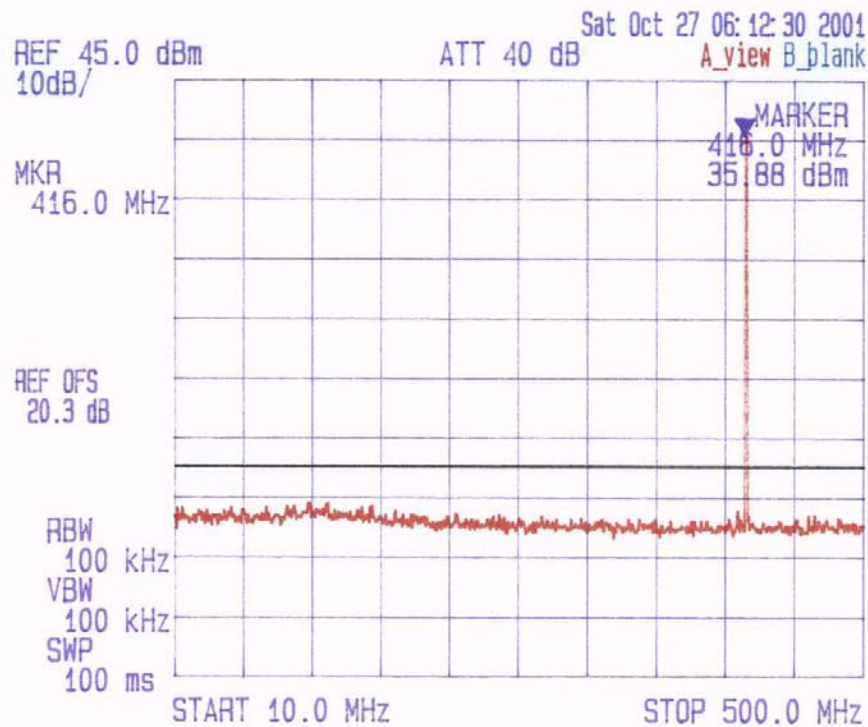
Plot # 15  
Spurious Emissions at Antenna Terminals  
Carrier Frequency: 415.05 MHz  
Channel Spacing: 12.5 kHz  
Power: 4 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: B, Tx Frequency: 415.05 MHz, Output Power: 4.1 W  
Mod.: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.5 kHz  
TRANSMITTER ANTENNA POWER CONDUCTED

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT # 15



## ANNEX 1 - TEST DATA PLOTS

Plot # 16

Spurious Emissions at Antenna Terminals

Carrier Frequency: 415.05 MHz

Channel Spacing: 12.5 kHz

Power: 4 W

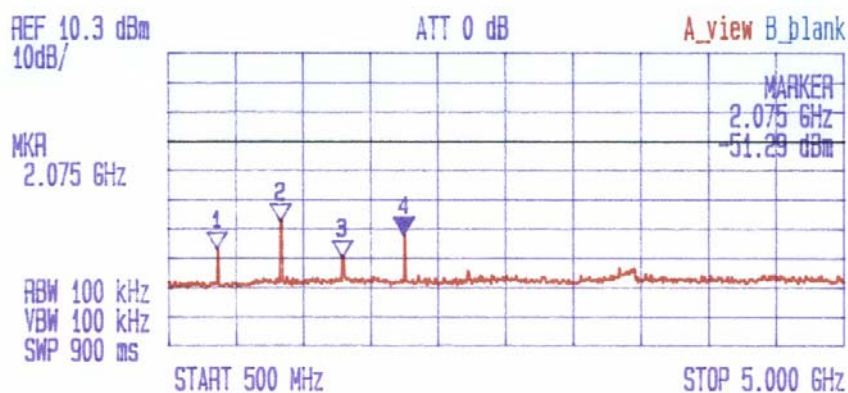
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: B, Tx Frequency: 415.05 MHz, Output Power: 4.1 W  
Mod.: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 0.3 kHz  
TRANSMITTER ANTENNA POWER CONDUCTED

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT #16



### \*\*\* Multi Marker List \*\*\*

|        |           |            |   |
|--------|-----------|------------|---|
| No. 1: | 828 MHz   | -56.29 dBm | A |
| No. 2: | 1.252 GHz | -46.76 dBm | A |
| No. 3: | 1.664 GHz | -59.70 dBm | A |
| No. 4: | 2.075 GHz | -51.29 dBm | A |
| No. 5: |           |            |   |
| No. 6: |           |            |   |
| No. 7: |           |            |   |
| No. 8: |           |            |   |
| Δ:     |           |            |   |

Icom Incorporated

UHF Hand Held Transceiver, Models IC-F21-1 or IC-F21S-1

FCC ID: AFJIC-F21-1

## ANNEX 1 - TEST DATA PLOTS

Plot #17

Spurious Emissions at Antenna Terminals

Carrier Frequency: 429.95 MHz

Channel Spacing: 12.5 kHz

Power: 4 W

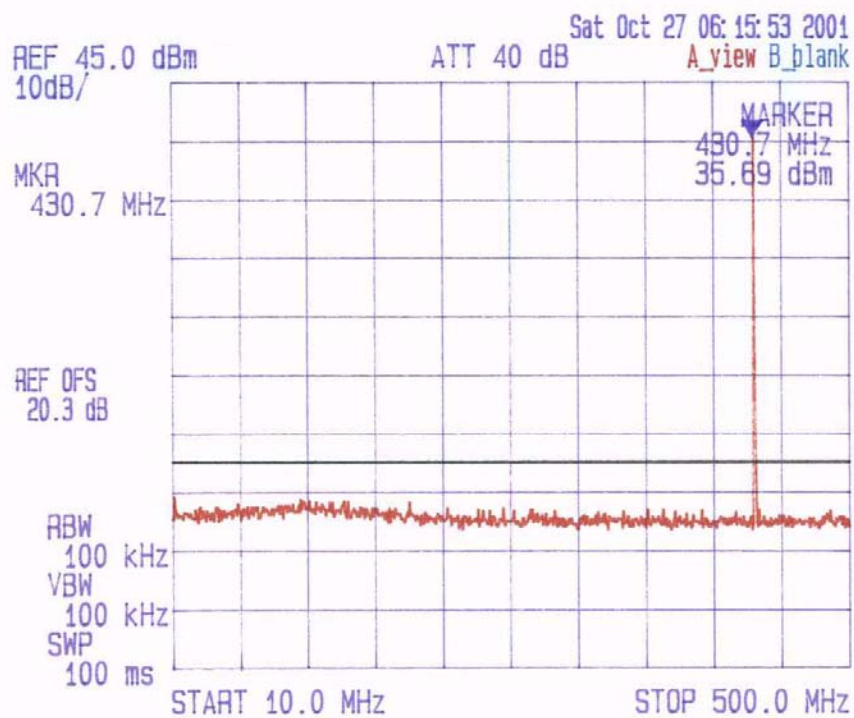
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 3, Tx Frequency: 429.95 MHz, Output Power: 4.1 W  
Mod.: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.5 kHz  
TRANSMITTER ANTENNA POWER CONDUCTED

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT #17



ANNEX 1 - TEST DATA PLOTS

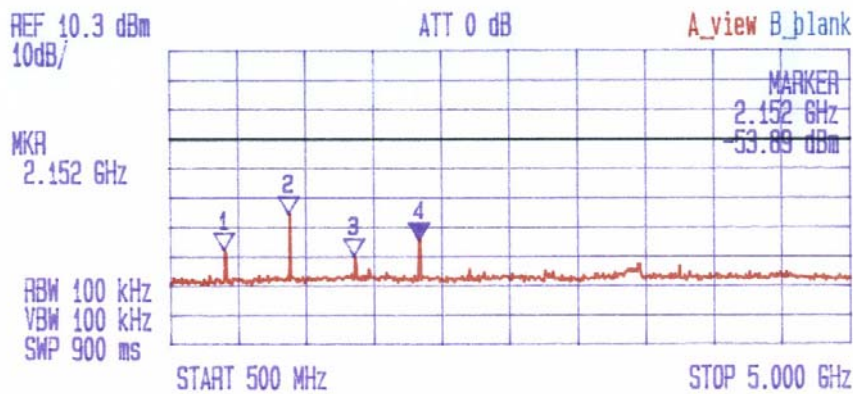
Plot # 18  
Spurious Emissions at Antenna Terminals  
Carrier Frequency: 429.95 MHz  
Channel Spacing: 12.5 kHz  
Power: 4 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 3, Tx Frequency: 429.95 MHz, Output Power: 4.1 W  
Mod.: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.5 kHz  
TRANSMITTER ANTENNA POWER CONDUCTED

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT # 18



\*\*\* Multi Marker List \*\*\*

|       |           |            |   |
|-------|-----------|------------|---|
| No.1: | 860 MHz   | -57.29 dBm | A |
| No.2: | 1.291 GHz | -45.14 dBm | A |
| No.3: | 1.721 GHz | -59.61 dBm | A |
| No.4: | 2.152 GHz | -53.89 dBm | A |
| No.5: |           |            |   |
| No.6: |           |            |   |
| No.7: |           |            |   |
| No.8: |           |            |   |
| Δ:    |           |            |   |

## ANNEX 1 - TEST DATA PLOTS

Plot # 19

Spurious Emissions at Antenna Terminals

Carrier Frequency: 400.05 MHz

Channel Spacing: 12.5 kHz

Power: 1 W

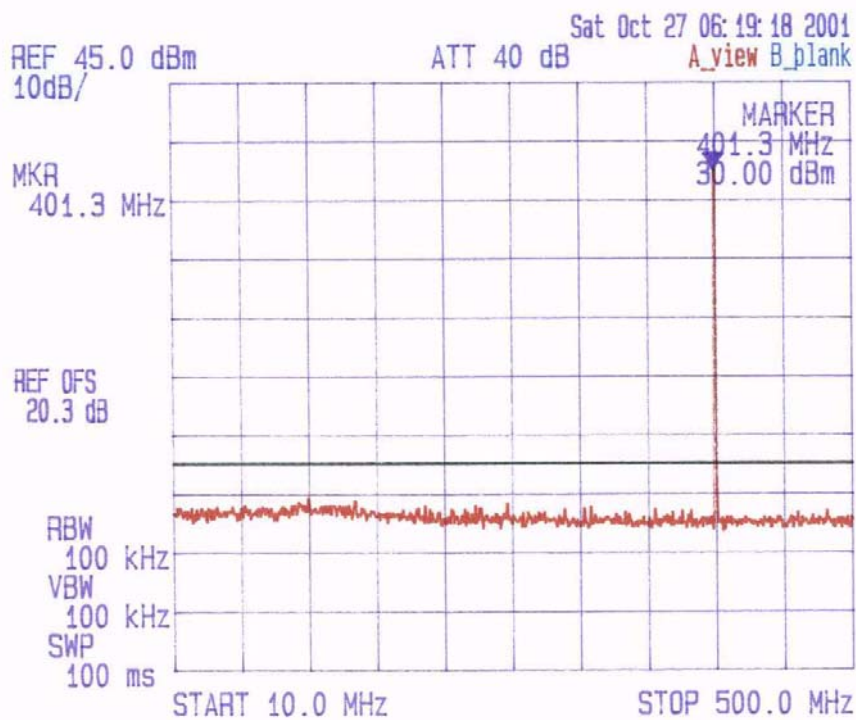
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 7, Tx Frequency: 400.05 MHz, Output Power: 1.1 W  
Mod.: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.5 kHz  
TRANSMITTER ANTENNA POWER CONDUCTED

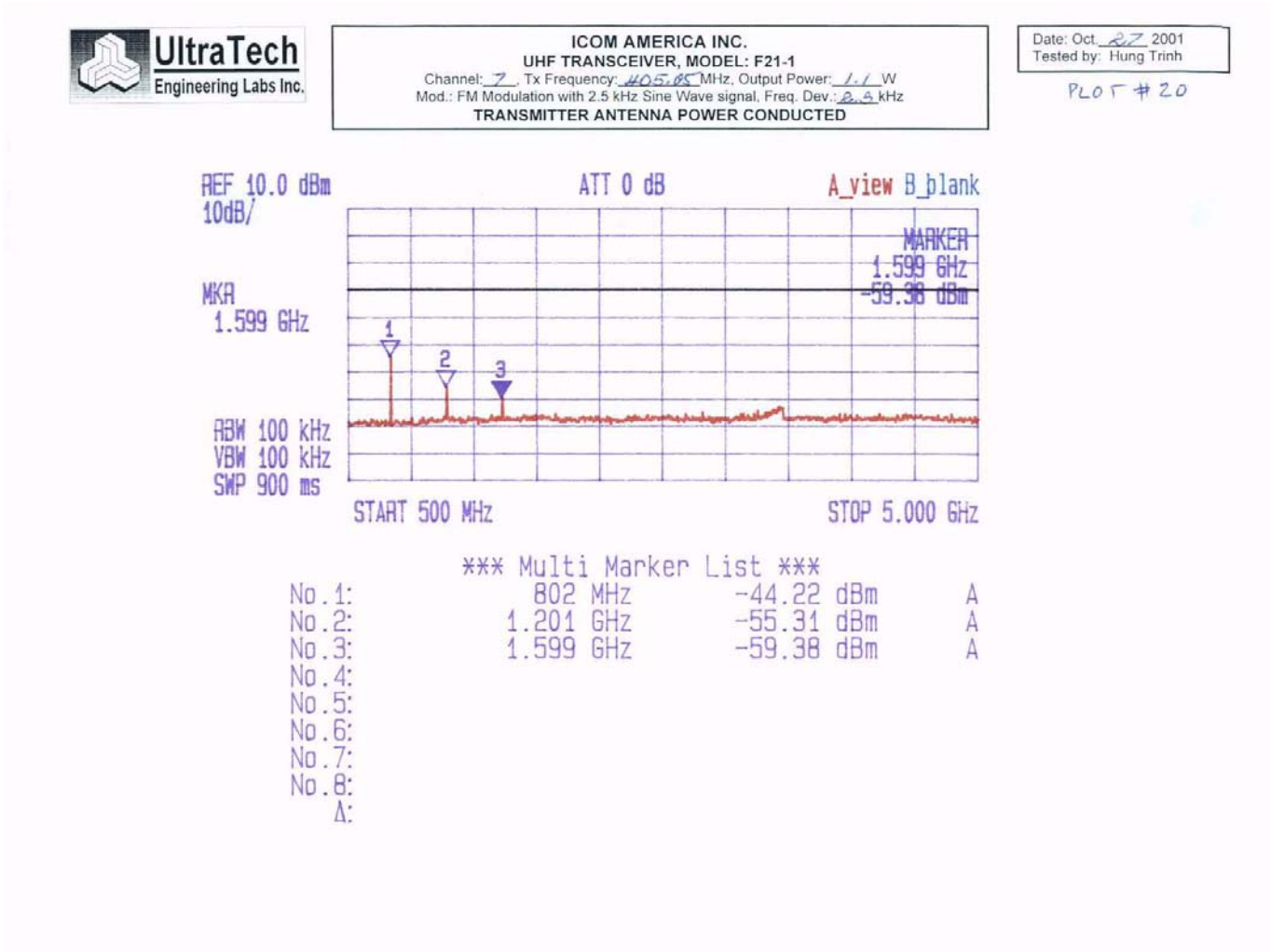
Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT # 19



ANNEX 1 - TEST DATA PLOTS

Plot # 20  
Spurious Emissions at Antenna Terminals  
Carrier Frequency: 400.05 MHz  
Channel Spacing: 12.5 kHz  
Power: 1 W  
Modulation: FM with 2.5 kHz Sine Wave



## ANNEX 1 - TEST DATA PLOTS

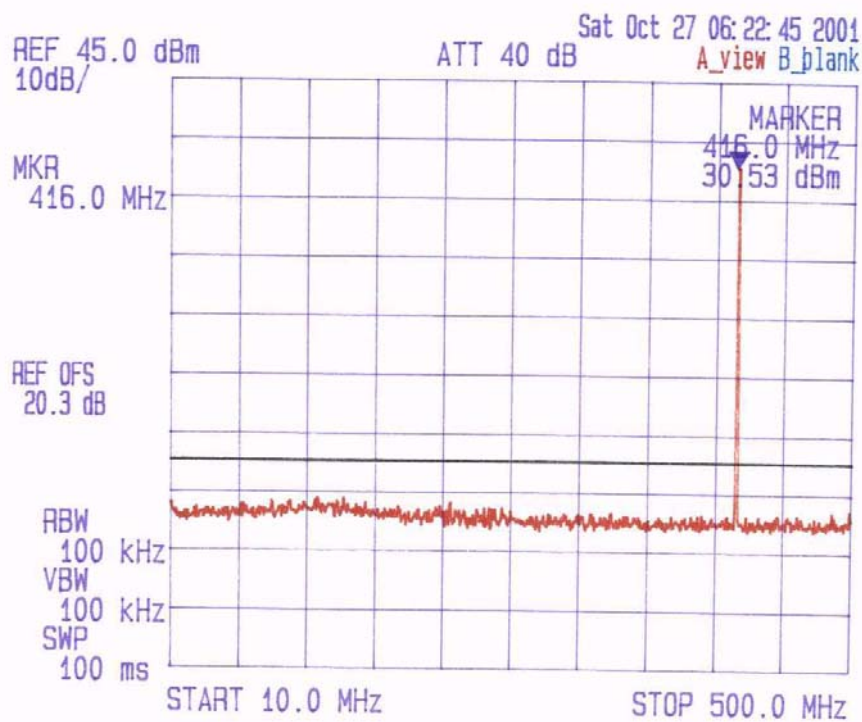
Plot # 21  
Spurious Emissions at Antenna Terminals  
Carrier Frequency: 415.05 MHz  
Channel Spacing: 12.5 kHz  
Power: 1 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 8, Tx Frequency: 415.05 MHz, Output Power: 1.1 W  
Mod.: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.5 kHz  
TRANSMITTER ANTENNA POWER CONDUCTED

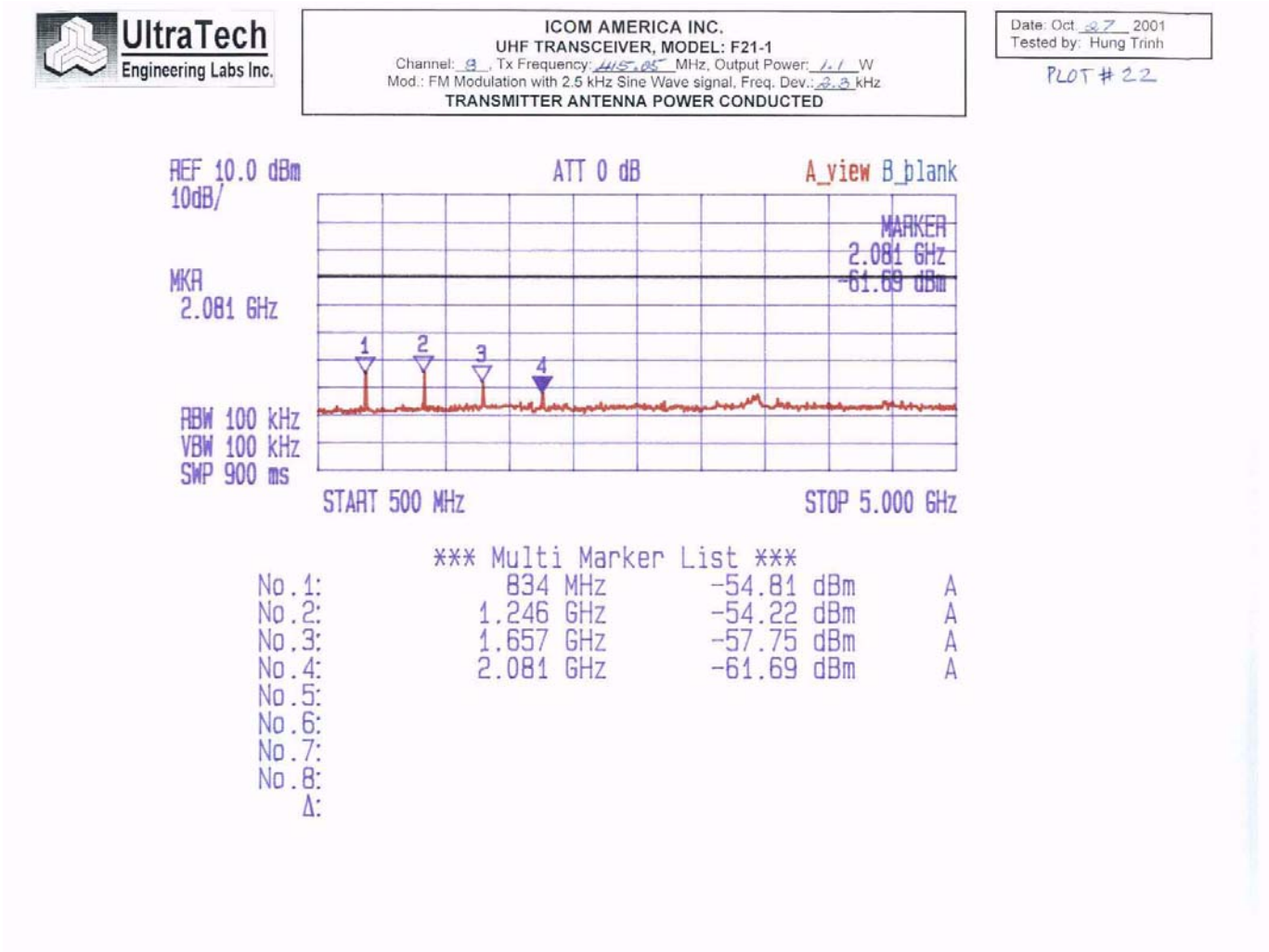
Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT # 21



ANNEX 1 - TEST DATA PLOTS

Plot # 22  
Spurious Emissions at Antenna Terminals  
Carrier Frequency: 415.05 MHz  
Channel Spacing: 12.5 kHz  
Power: 1 W  
Modulation: FM with 2.5 kHz Sine Wave



## ANNEX 1 - TEST DATA PLOTS

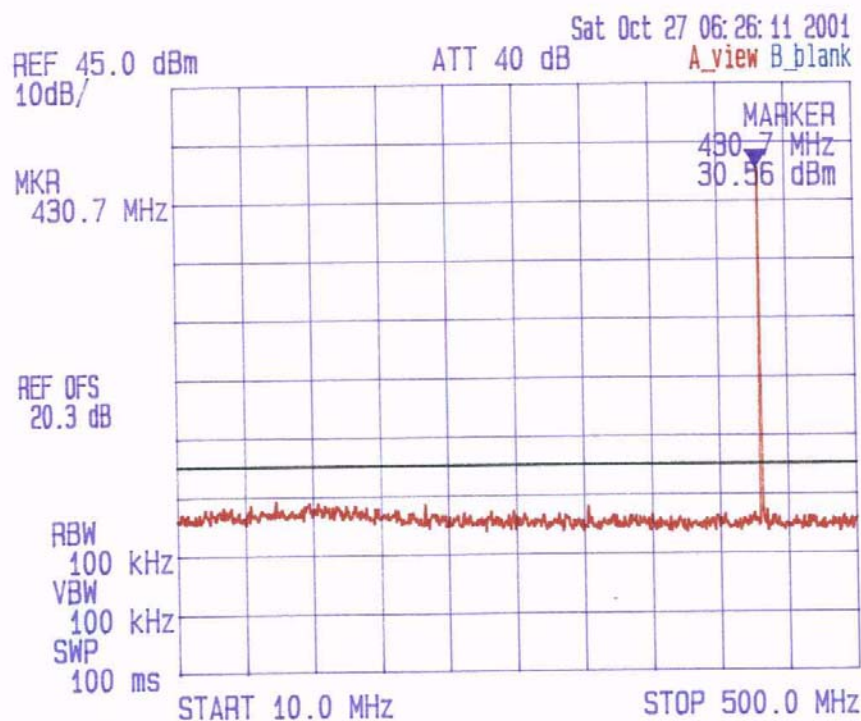
Plot # 23  
Spurious Emissions at Antenna Terminals  
Carrier Frequency: 429.95 MHz  
Channel Spacing: 12.5 kHz  
Power: 1 W  
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 9, Tx Frequency: 430.05 MHz, Output Power: 1.1 W  
Mod.: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.3 kHz  
TRANSMITTER ANTENNA POWER CONDUCTED

Date: Oct 27 2001  
Tested by: Hung Trinh

PLOT # 23



## ANNEX 1 - TEST DATA PLOTS

Plot # 24

Spurious Emissions at Antenna Terminals

Carrier Frequency: 429.95 MHz

Channel Spacing: 12.5 kHz

Power: 1 W

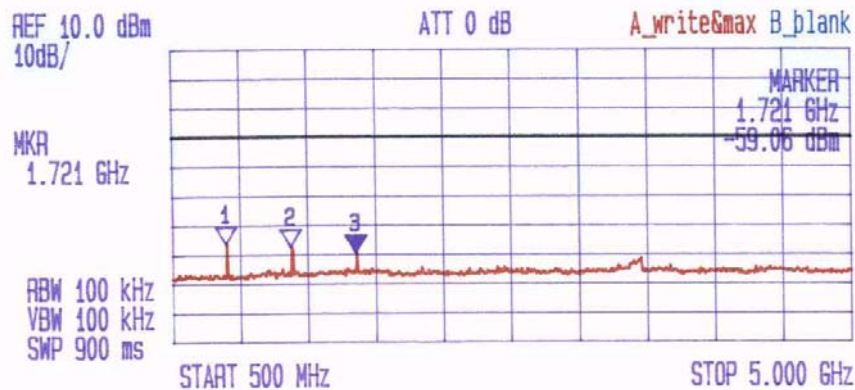
Modulation: FM with 2.5 kHz Sine Wave



ICOM AMERICA INC.  
UHF TRANSCEIVER, MODEL: F21-1  
Channel: 9, Tx Frequency: 429.95 MHz, Output Power: 1.1 W  
Mod.: FM Modulation with 2.5 kHz Sine Wave signal, Freq. Dev.: 2.5 kHz  
TRANSMITTER ANTENNA POWER CONDUCTED

Date: Oct. 27 2001  
Tested by: Hung Trinh

PLOT # 24



\*\*\* Multi Marker List \*\*\*

|       |           |            |   |
|-------|-----------|------------|---|
| No.1: | 860 MHz   | -56.47 dBm | A |
| No.2: | 1.291 GHz | -57.19 dBm | A |
| No.3: | 1.721 GHz | -59.06 dBm | A |
| No.4: |           |            |   |
| No.5: |           |            |   |
| No.6: |           |            |   |
| No.7: |           |            |   |
| No.8: |           |            |   |
| Δ:    |           |            |   |

## ANNEX 1 - TEST DATA PLOTS

Plot # 25

Transient Frequency Behavior

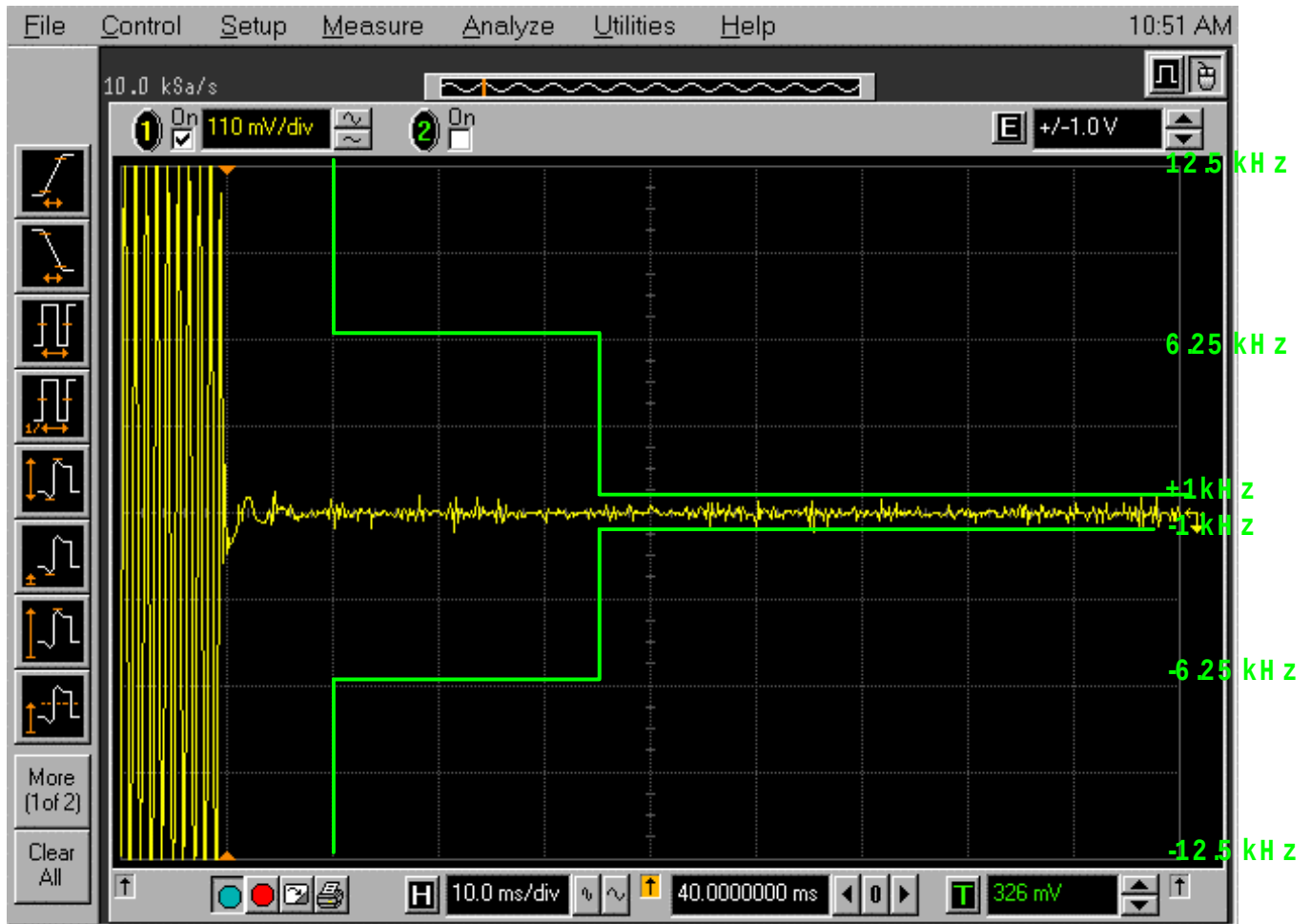
Carrier Frequency: 400.05 MHz

Channel Spacing: 12.5 kHz

Power: 4 W

Modulation: Unmodulated

Description: Carrier On Time



## ANNEX 1 - TEST DATA PLOTS

Plot # 26

Transient Frequency Behavior

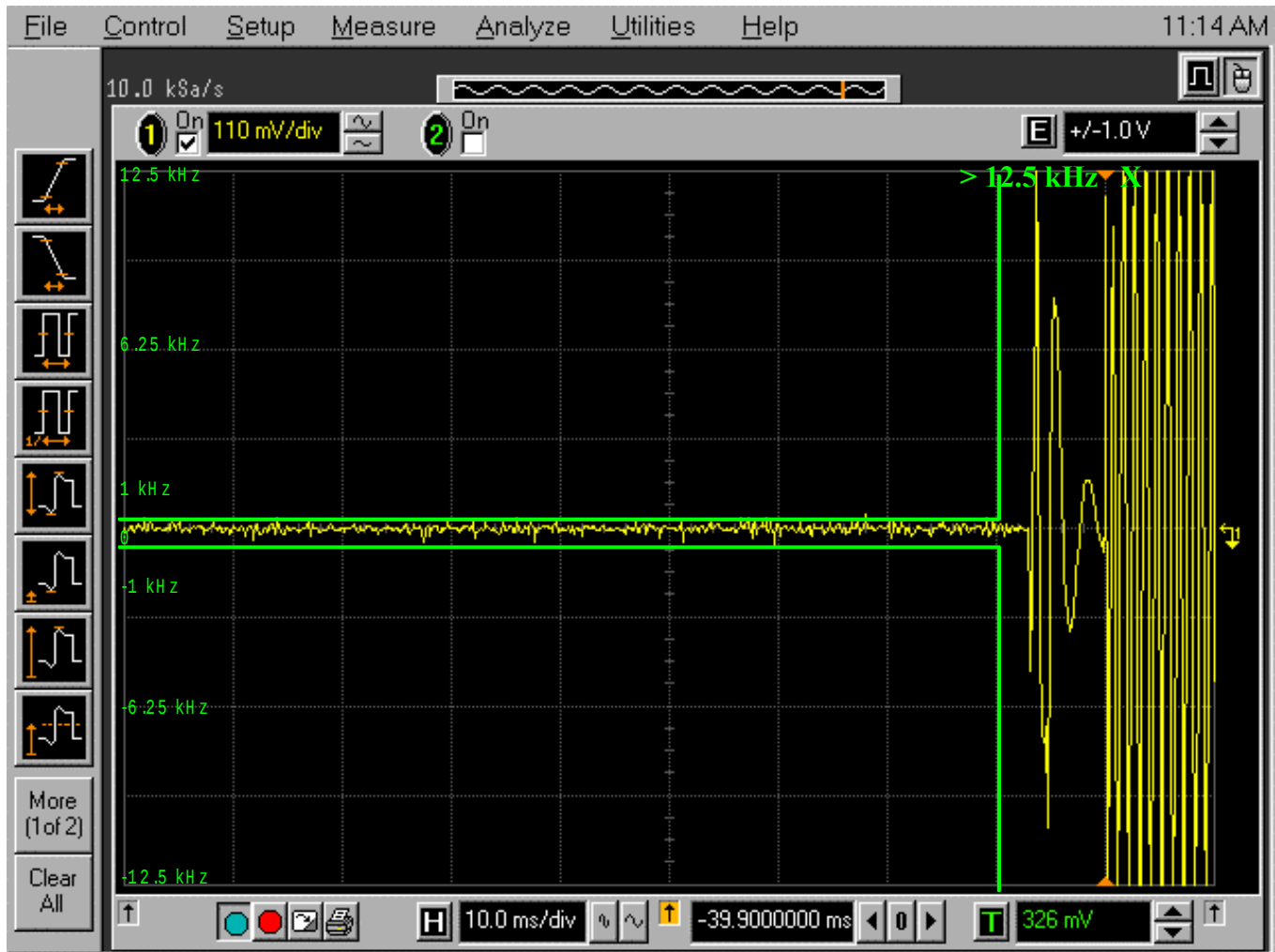
Carrier Frequency: 400.05 MHz

Channel Spacing: 12.5 kHz

Power: 4 W

Modulation: Unmodulated

Description: Carrier Off Time



## ANNEX 1 - TEST DATA PLOTS

Plot # 27

Transient Frequency Behavior

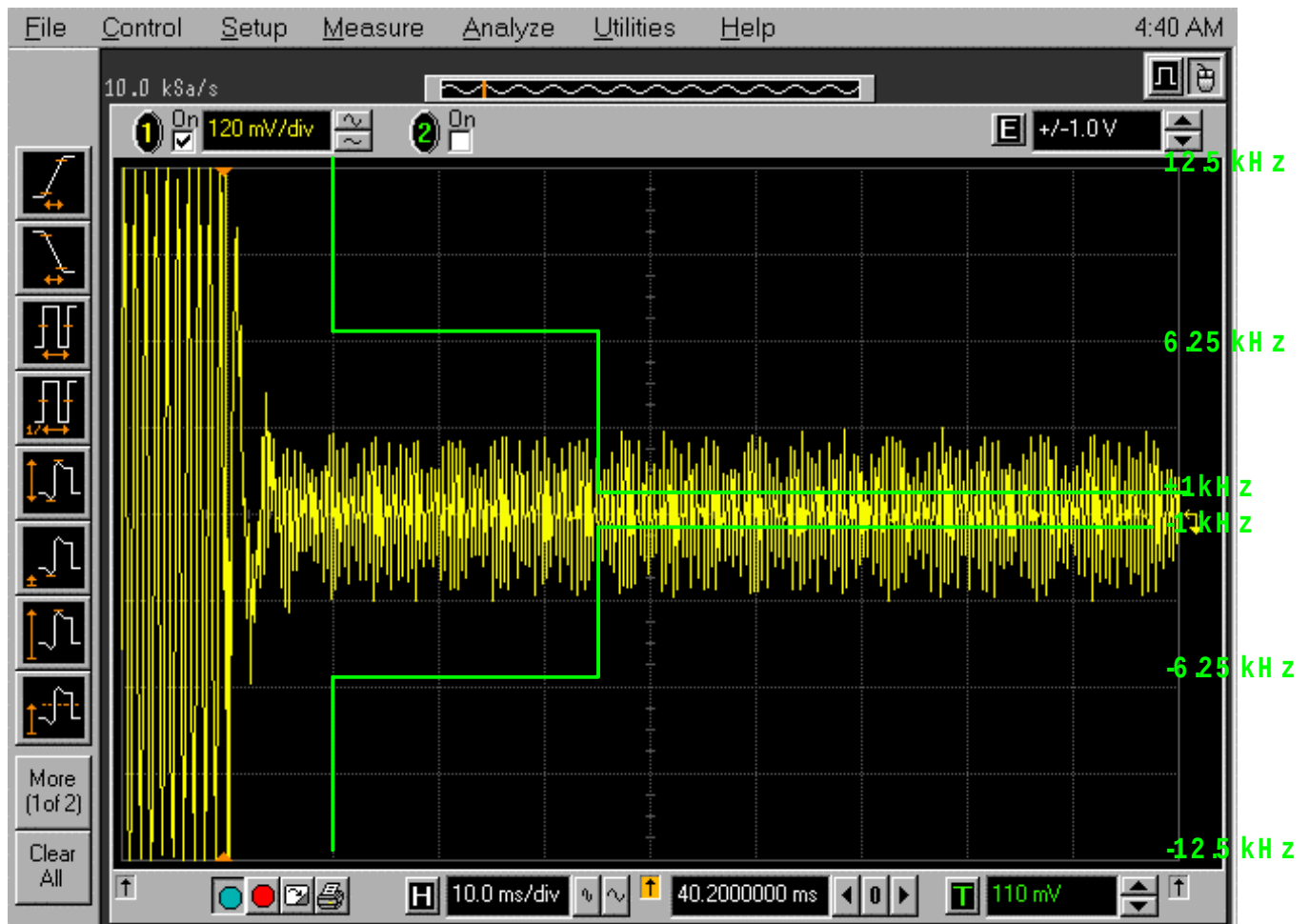
Carrier Frequency: 400.05 MHz

Channel Spacing: 12.5 kHz

Power: 4 W

Modulation: FM with 2.5 kHz Sine Wave

Description: Carrier On Time



## ANNEX 1 - TEST DATA PLOTS

Plot # 28

Transient Frequency Behavior

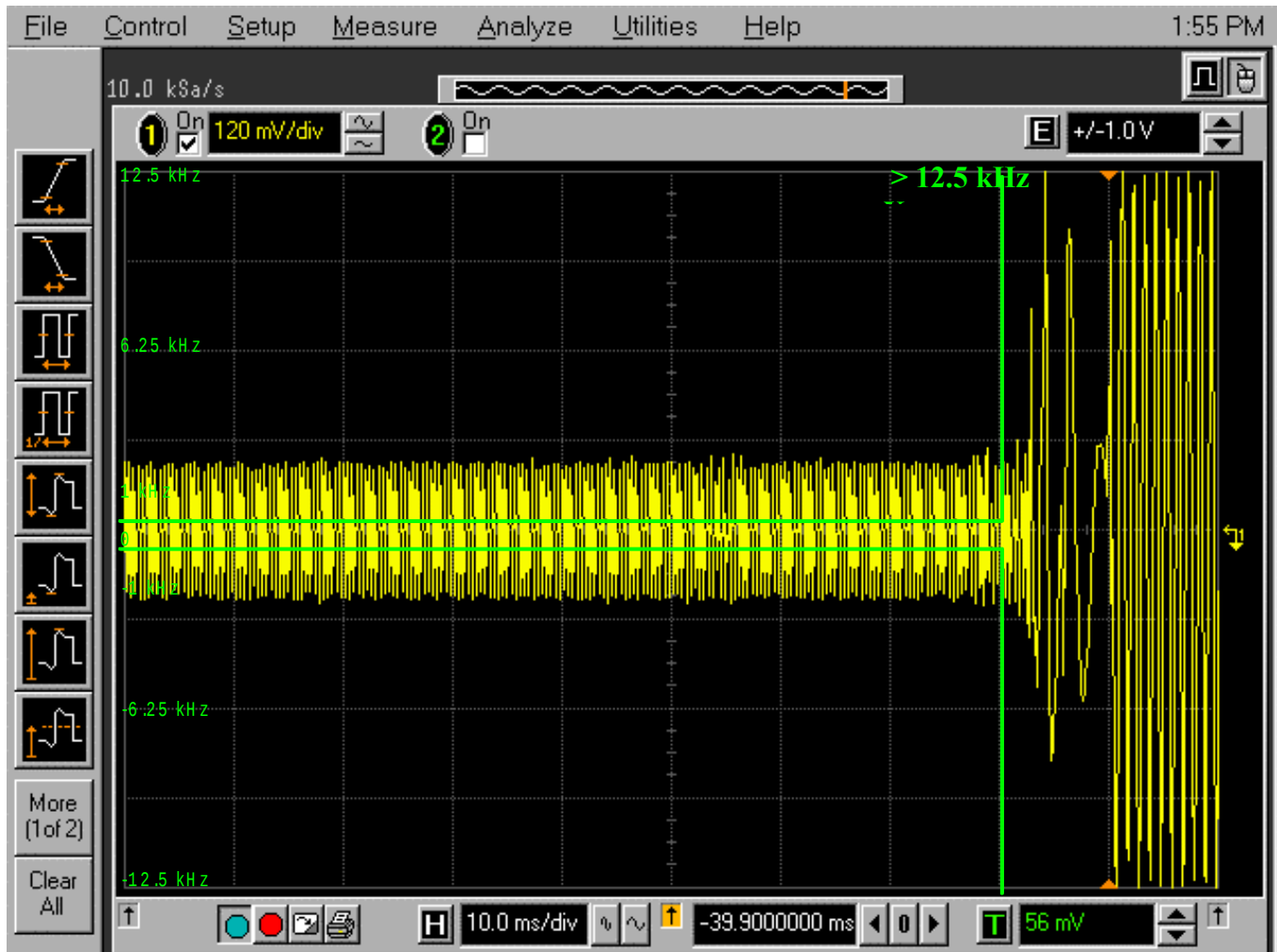
Carrier Frequency: 400.05 MHz

Channel Spacing: 12.5 kHz

Power: 4 W

Modulation: FM with 2.5 kHz Sine Wave

Description: Carrier Off Time



## ANNEX 1 - TEST DATA PLOTS

Plot # 29

Transient Frequency Behavior

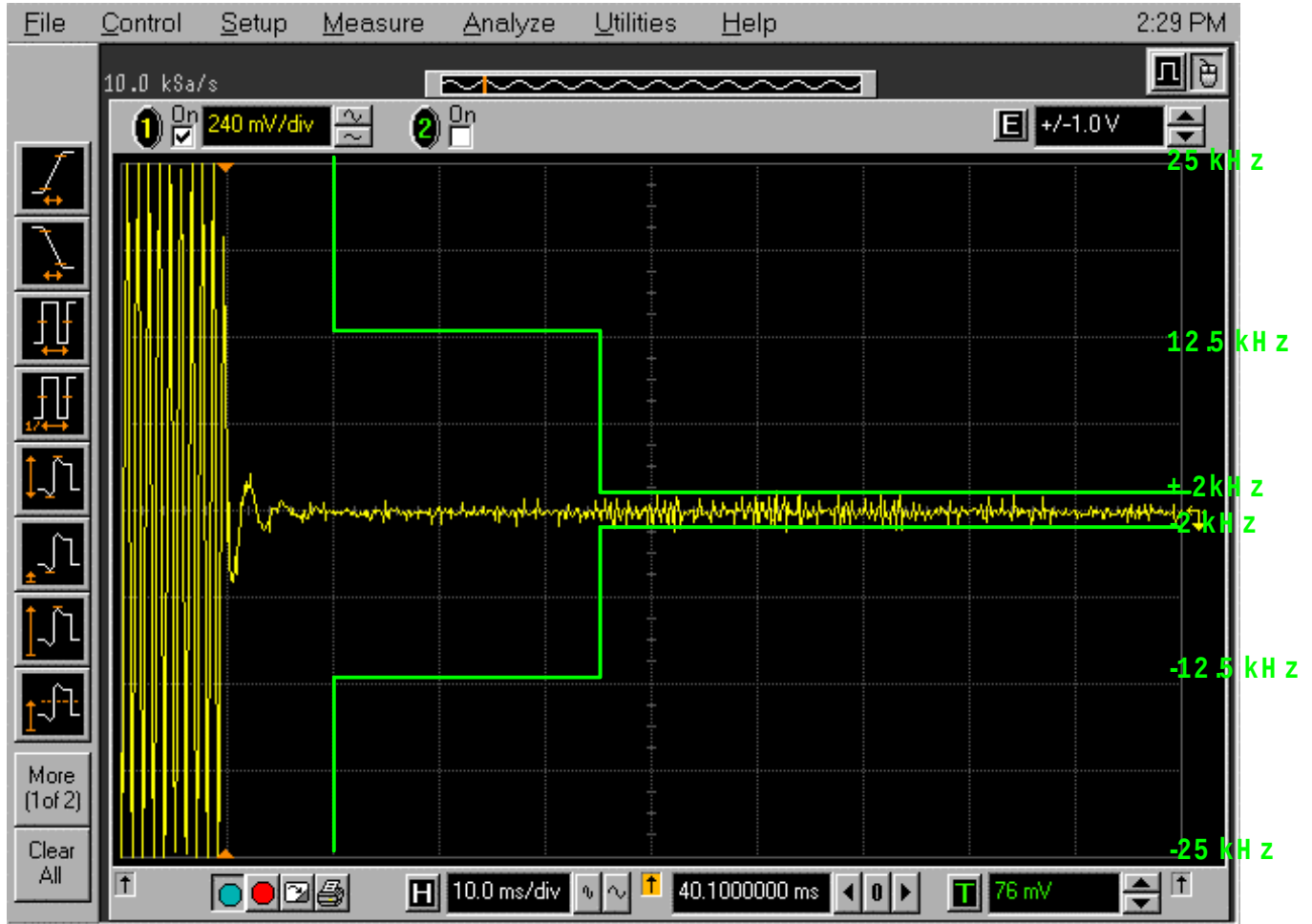
Carrier Frequency: 400.05 MHz

Channel Spacing: 25 kHz

Power: 4 W

Modulation: Unmodulated

Description: Carrier On Time



## ANNEX 1 - TEST DATA PLOTS

Plot # 30

Transient Frequency Behavior

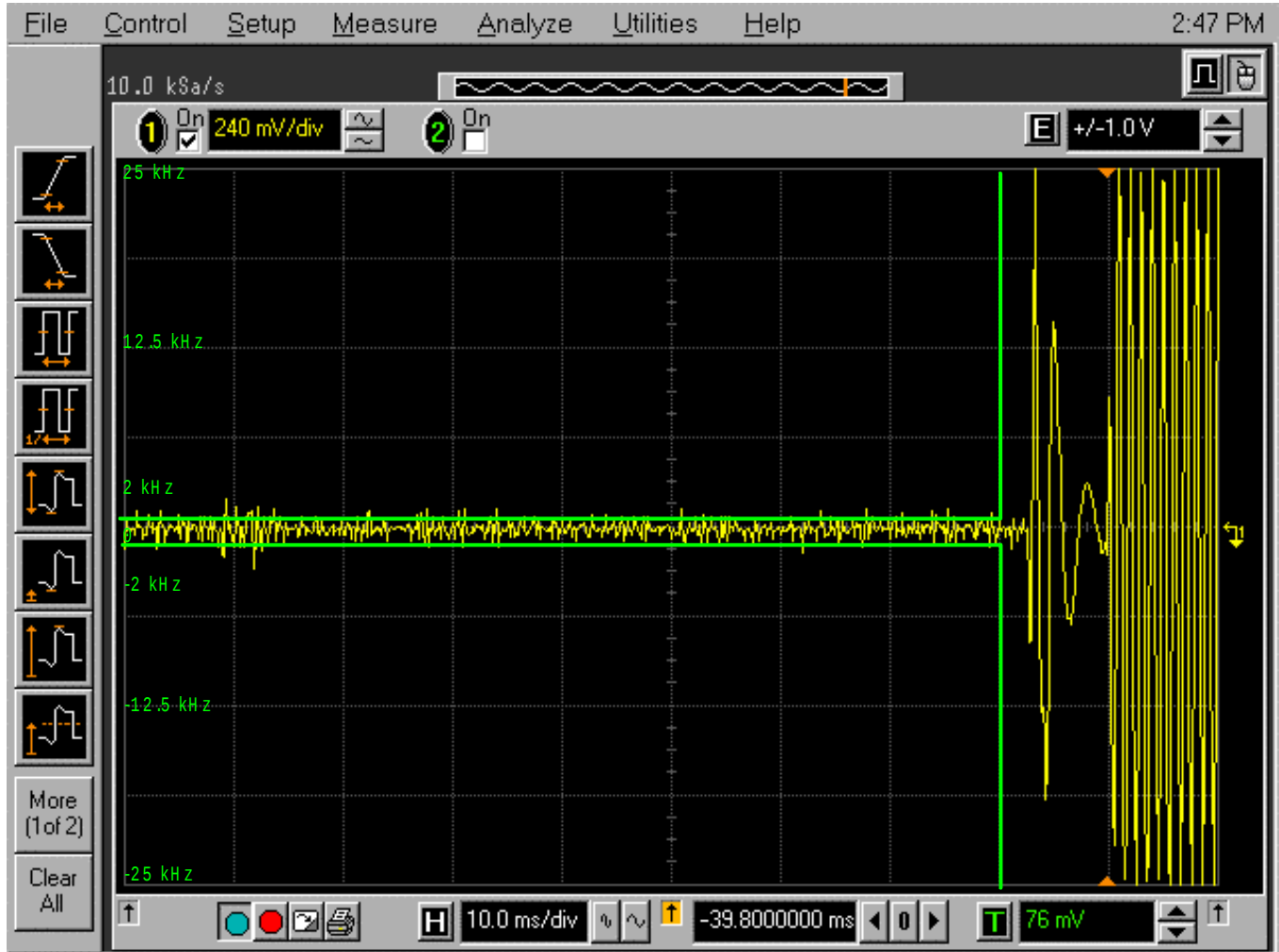
Carrier Frequency: 400.05 MHz

Channel Spacing: 25 kHz

Power: 4 W

Modulation: Unmodulated

Description: Carrier Off Time



## ANNEX 1 - TEST DATA PLOTS

Plot # 31

Transient Frequency Behavior

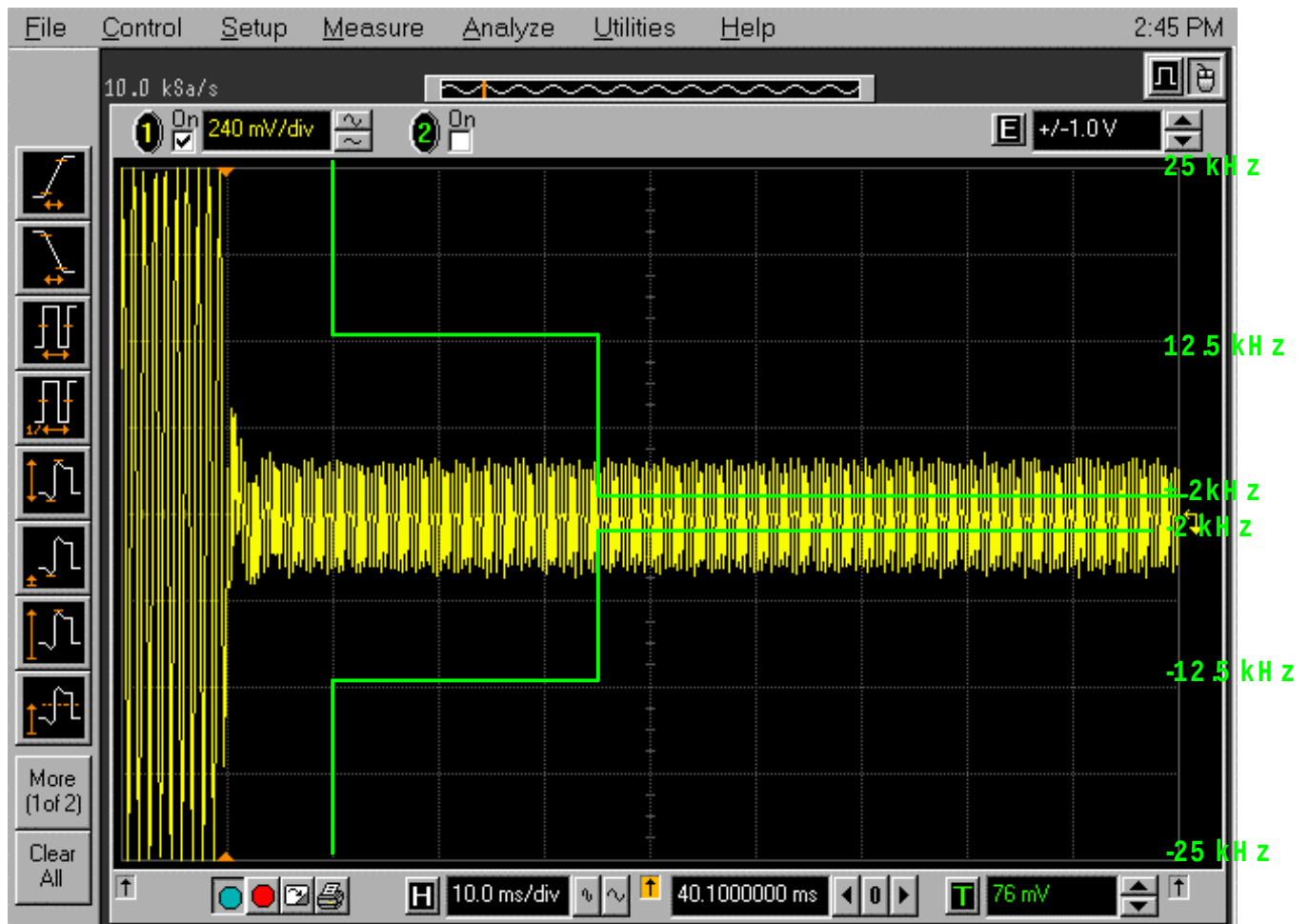
Carrier Frequency: 400.05 MHz

Channel Spacing: 25 kHz

Power: 4 W

Modulation: FM with 2.5 kHz Sine Wave

Description: Carrier On Time



## ANNEX 1 - TEST DATA PLOTS

Plot # 32

Transient Frequency Behavior

Carrier Frequency: 400.05 MHz

Channel Spacing: 25 kHz

Power: 4 W

Modulation: FM with 2.5 kHz Sine Wave

Description: Carrier Off Time

