UltraTech Engineering Labs Inc.

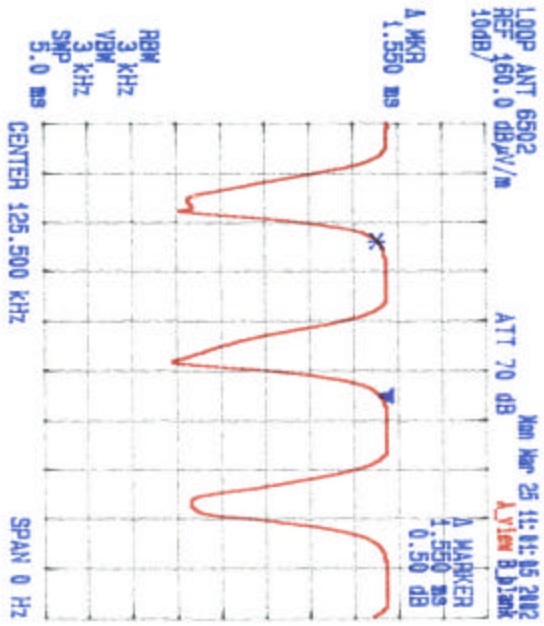
LYNGSOE INDUSTRIES LTD.
E95 TRANSMITTER TAG
Tx Freq.: 125 ~~kHz~~
DUTY CYCLE
MODULATION: OOK WITH 600 Hz

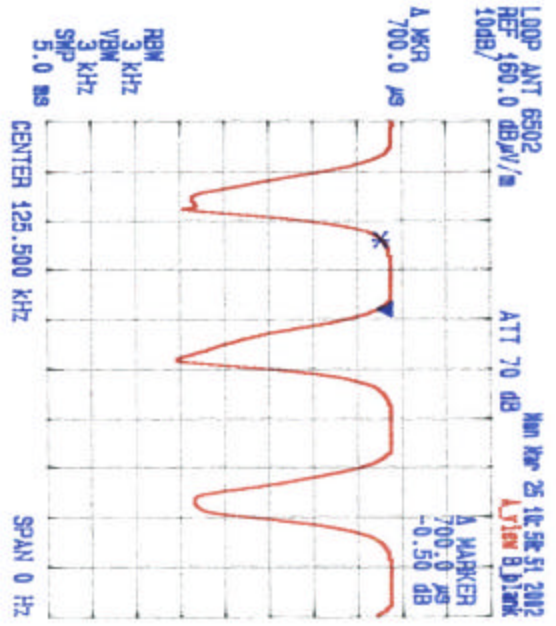
Date: March 25 2002
Tested by: Hung Trinh

PLOT #1

DUTY CYCLE = $\frac{700\ \mu s}{1.55\ ms} \times 100\ \% = 45.2\ \%$

20 log (0.452) = −6.9 dB

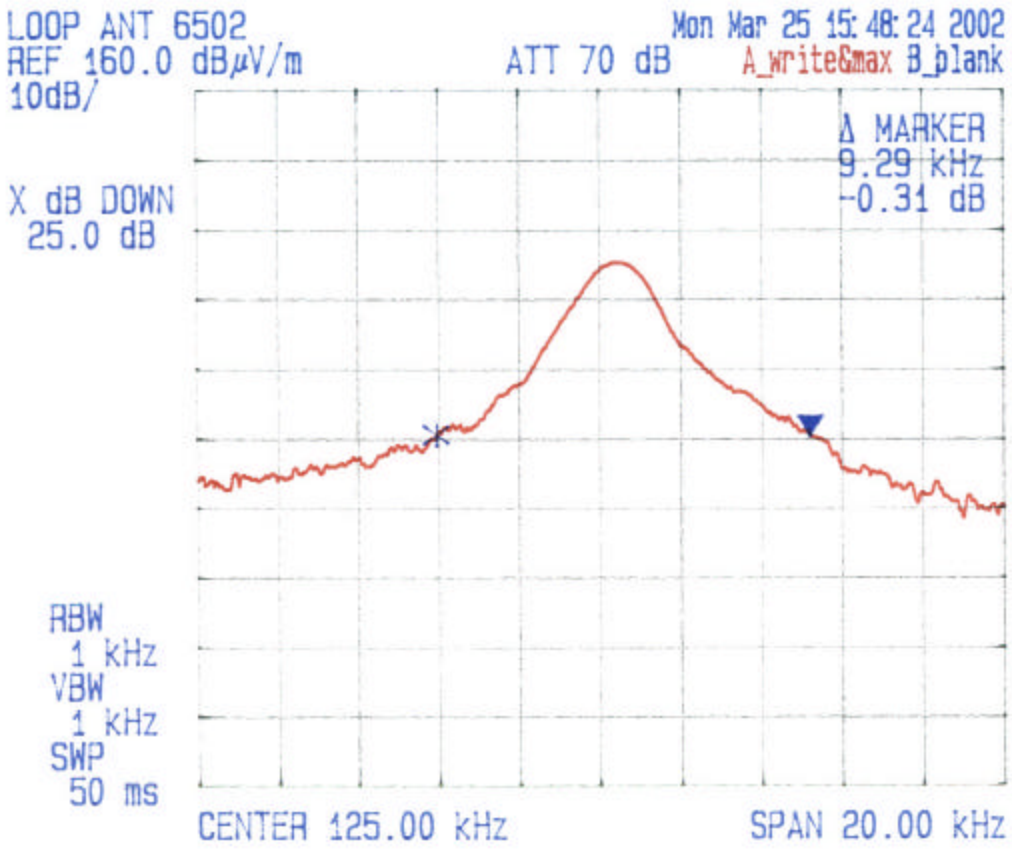




UltraTech Engineering Labs Inc.

LYNGSOE INDUSTRIES LTD.
E95 TRANSMITTER TAG
Tx Freq.: 162.5 MHz
25 % dB Bandwidth

Date: March 25 2002
Tested by: Hung Trinh
PLOT # 2

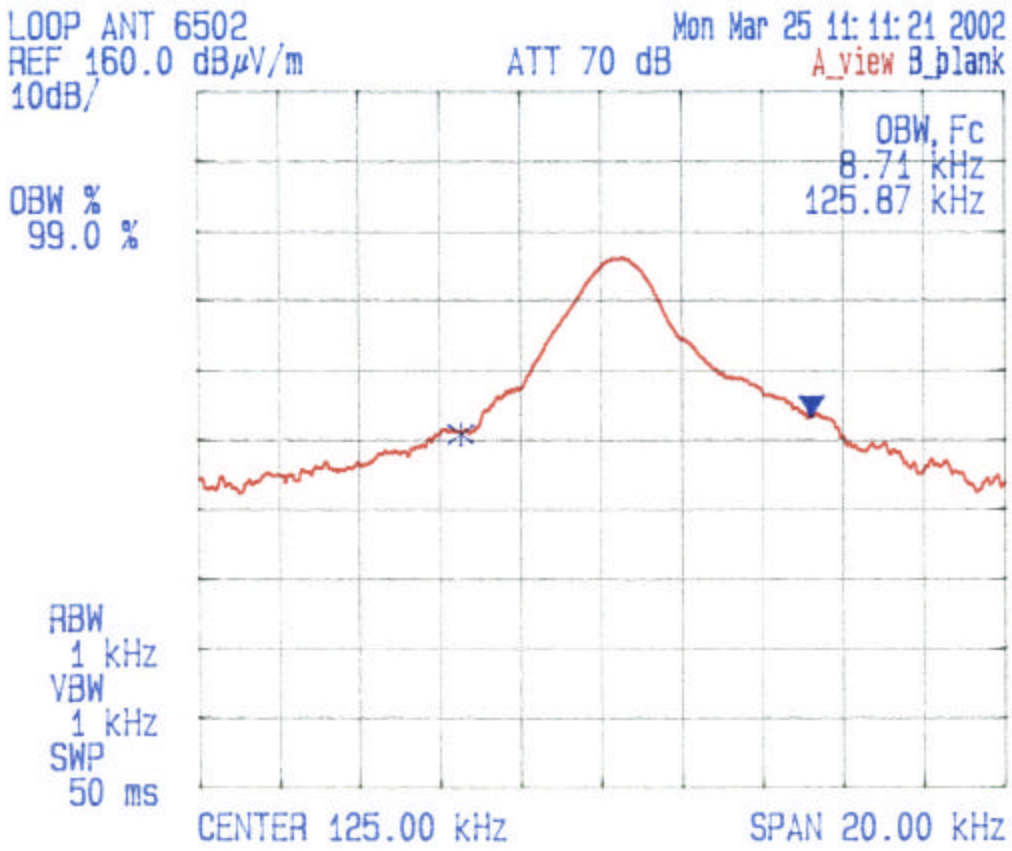


UltraTech Engineering Labs Inc.

LYNGSOE INDUSTRIES LTD.
E95 TRANSMITTER TAG
Tx Freq: 125 kHz
99 % OBW
OOK MODULATION WITH 2400 HZ

Date: March 25 2002
Tested by: Hung Trinh

PLOT # 3

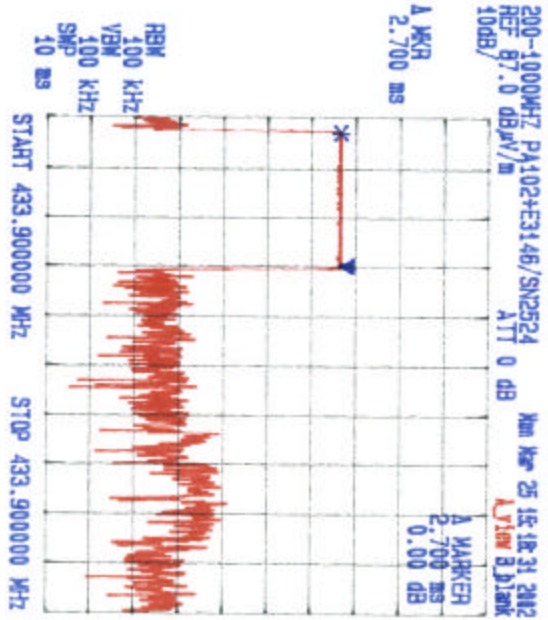


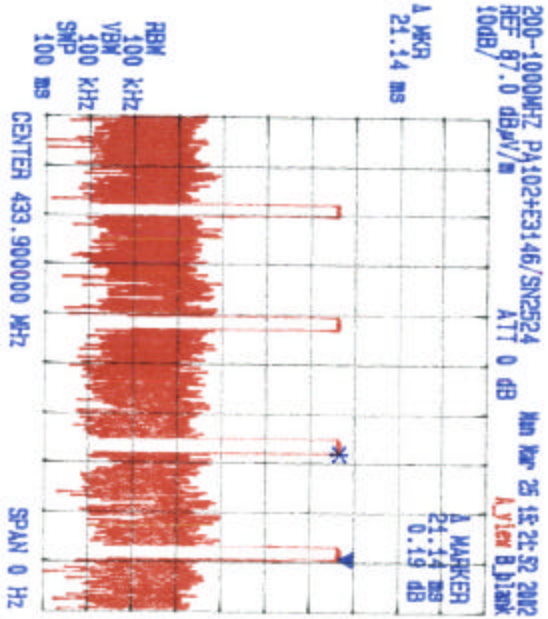
UltraTech Engineering Labs Inc.

LYNGSOE INDUSTRIES LTD.
E95 TRANSMITTER TAG
Tx Freq.: 433.9 MHz
DUTY CYCLE
FSK MODULATION

Date: March 25 2002
Tested by: Hung Trinh

PLOT #4



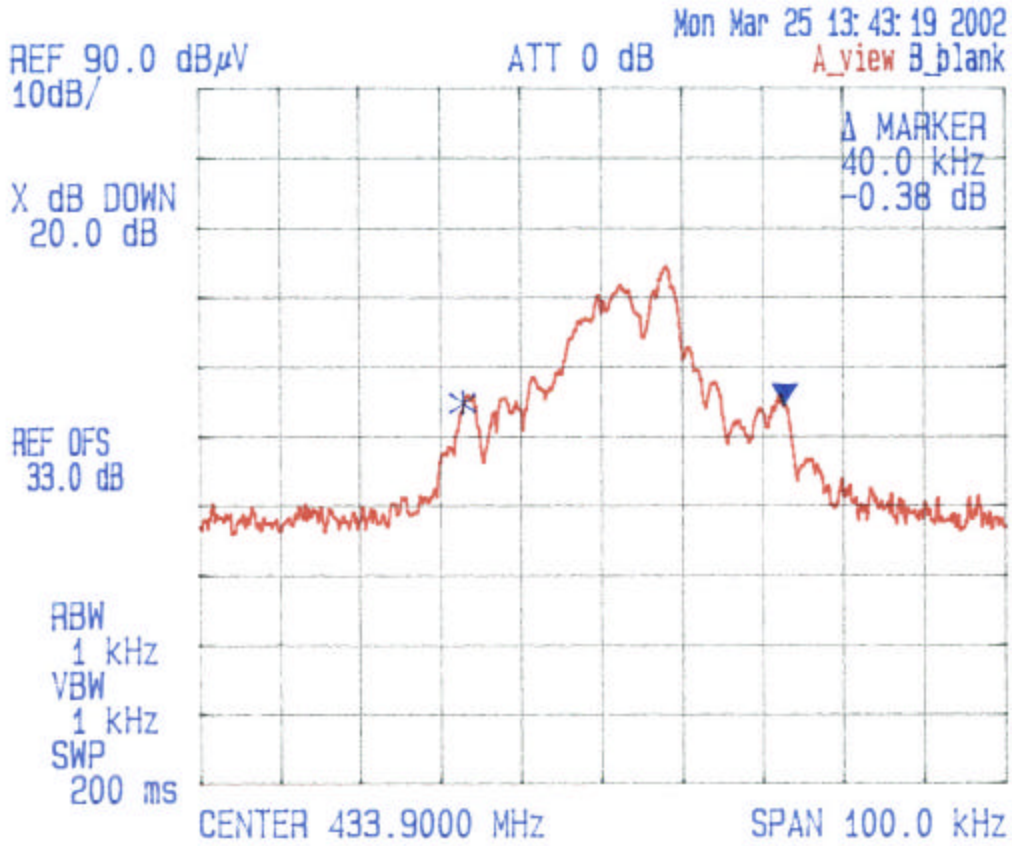


Duty cycle = $\frac{2.7ms \times 4}{160ms}$ = 0.108 or -19.3dB

UltraTech Engineering Labs Inc.

LYNGSOE INDUSTRIES LTD.
E95 TRANSMITTER TAG
Tx Freq.: 433.9 MHz
20 dB Bandwidth

Date: March 25 2002
Tested by: Hung Trinh
PLOT # 5



UltraTech Engineering Labs Inc.

LYNGSOE INDUSTRIES LTD.
E95 TRANSMITTER TAG
Tx Freq.: 433.9 MHz
99 % OBW

Date: March 25 2002
Tested by: Hung Trinh

PLOT #6