

ANNEX 1 - PLOTS - Power Density in 3 kHz BW

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 73

FCC ID: QC8-AN50S



UltraTech
Engineering Labs Inc.

REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

Channel: 1, Tx Frequency: 5735 MHz, Power Output: 24.56 dBm

Modulation: 64QAM (54 Mb/s)

Power Spectral Density

Date: February 15, 2003

Tested by: Hung Trinh

Sat Feb 15 08:48:33 2003

REF 20.0 dBm

ATT 20 dB

A_v i e w B _ b l a n k

10dB/

M K R

5.7337564 GHz

MARKER

5.7337564 GHz

-4.81 dBm

REF OFS

11.5 dB

RBW

3 kHz

VBW

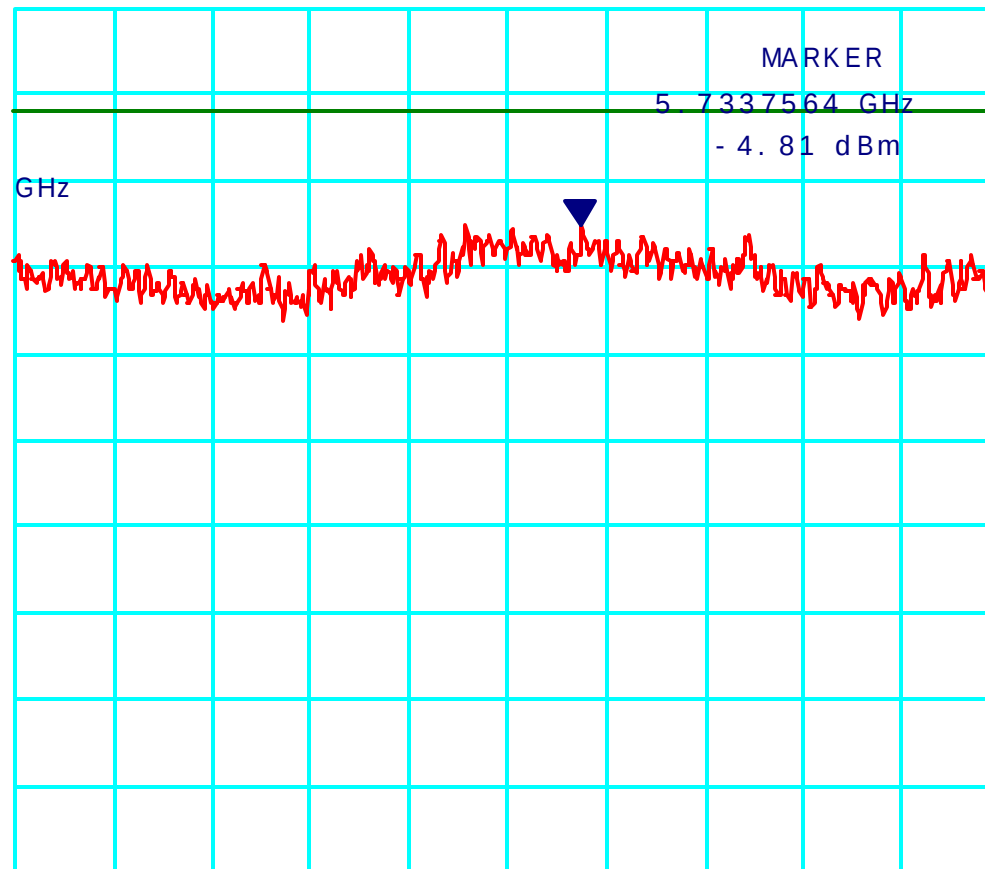
100 kHz

SWP

1000 s

CENTER 5.7337200 GHz

SPAN 500 kHz



ANNEX 1 - PLOTS - Power Density in 3 kHz BW

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 74

FCC ID: QC8-AN50S



UltraTech
Engineering Labs Inc.

REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

Channel: 3, Tx Frequency: 5775 MHz, Power Output: 25.44 dBm

Modulation: 64QAM (54 Mb/s)

Power Spectral Density

Date: February 15, 2003

Tested by: Hung Trinh

Sat Feb 15 08:32:39 2003

REF 20.0 dBm

ATT 20 dB

A_v i e w B _ b l a n k

10 dB /

M K R

5.7740371 GHz

MARKER

5.7740371 GHz

- 4.16 dBm

REF OFS

11.5 dB

RBW

3 kHz

VBW

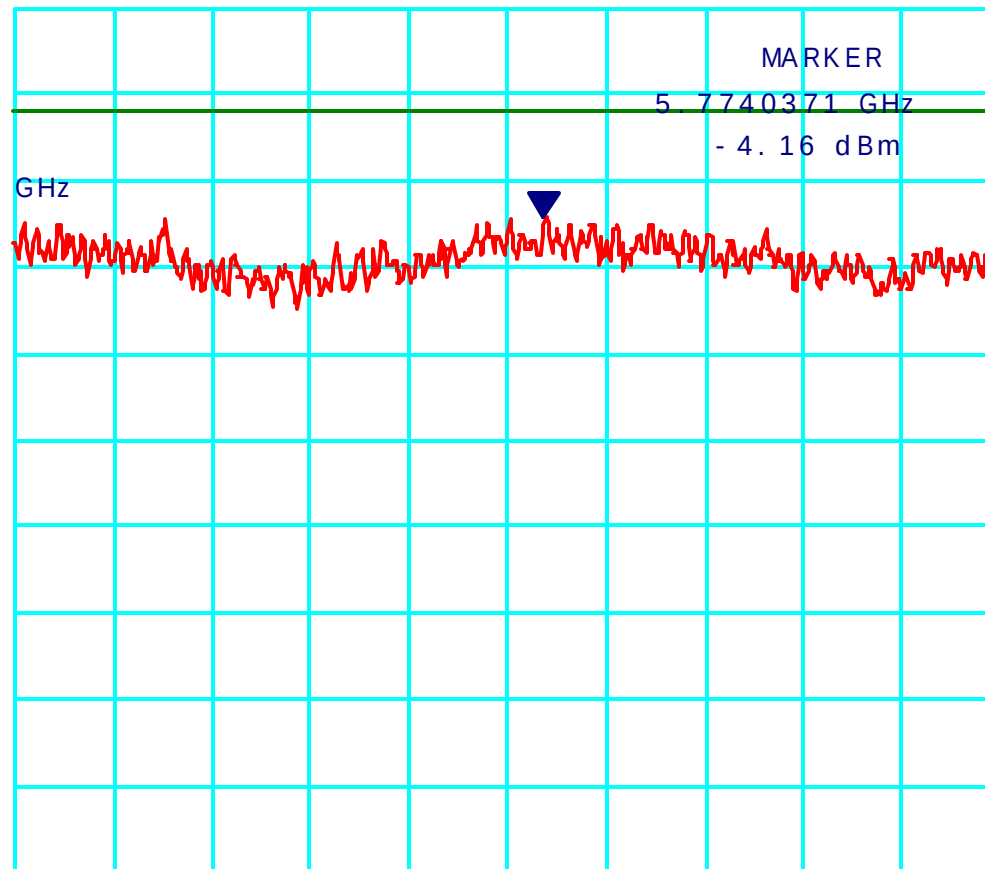
100 kHz

SWP

1000 s

CENTER 5.774019 GHz

SPAN 500 kHz



ANNEX 1 - PLOTS - Power Density in 3 kHz BW

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S



UltraTech
Engineering Labs Inc.

REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

Channel: 5, Tx Frequency: 5815 MHz, Power Output: 26.03 dBm

Modulation: 64QAM (54 Mb/s)

Power Spectral Density

PLOT # 75

FCC ID: QC8-AN50S

Date: February 15, 2003

Tested by: Hung Trinh

Sat Feb 15 08:06:28 2003

REF 20.0 dBm

ATT 20 dB

A_v i e w B _ l a n k

10 dB /

M K R

5.8137571 GHz

MARKER

5.8137571 GHz

- 2.19 dBm

REF OFS

11.5 dB

RBW

3 kHz

VBW

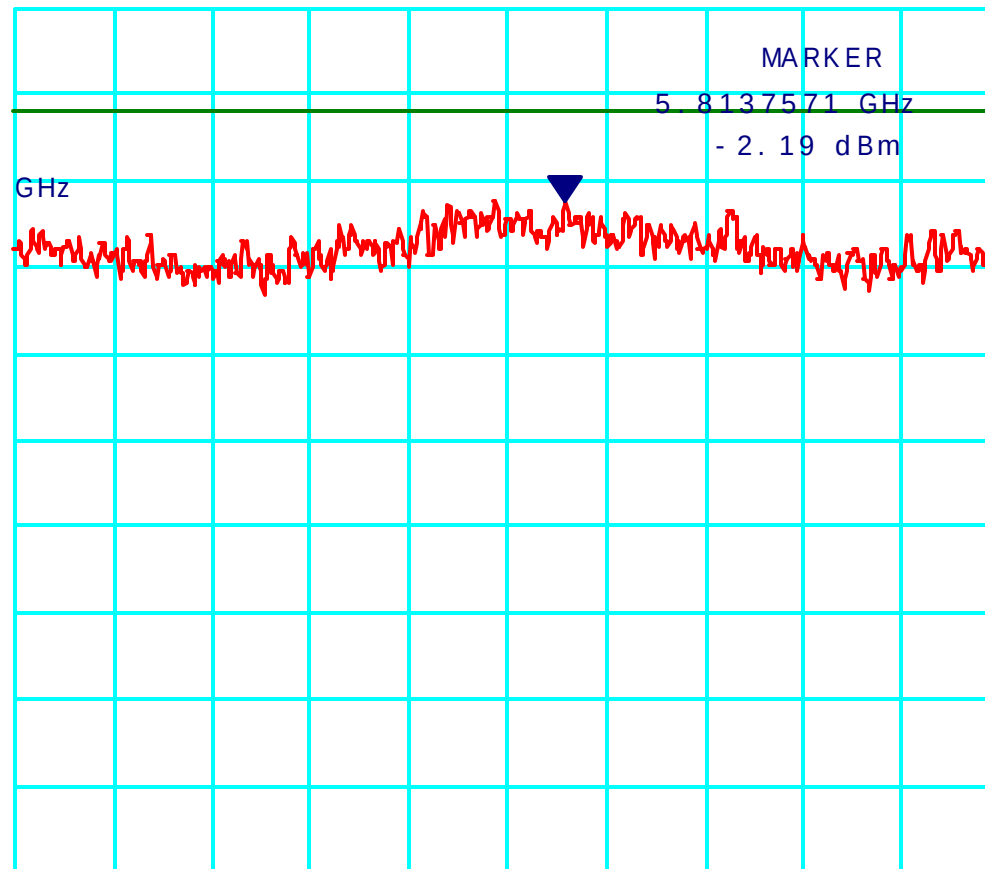
100 kHz

SWP

1000 s

CENTER 5.813729 GHz

SPAN 500 kHz



ANNEX 1 - PLOTS - Power Density in 3 kHz BW

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 76

FCC ID: QC8-AN50S



UltraTech
Engineering Labs Inc.

REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

Channel: 1, Tx Frequency: 5735 MHz, Power Output: 24.56 dBm

Modulation: 16QAM (36 Mb/s)

Power Spectral Density

Date: February 15, 2003

Tested by: Hung Trinh

Sat Feb 15 09:08:08 2003

REF 20.0 dBm

ATT 20 dB

A_v i e w B _ b l a n k

10 dB /

M K R

5.7337221 GHz

MARKER

5.7337221 GHz

- 5.31 dBm

REF OFS

11.5 dB

RBW

3 kHz

VBW

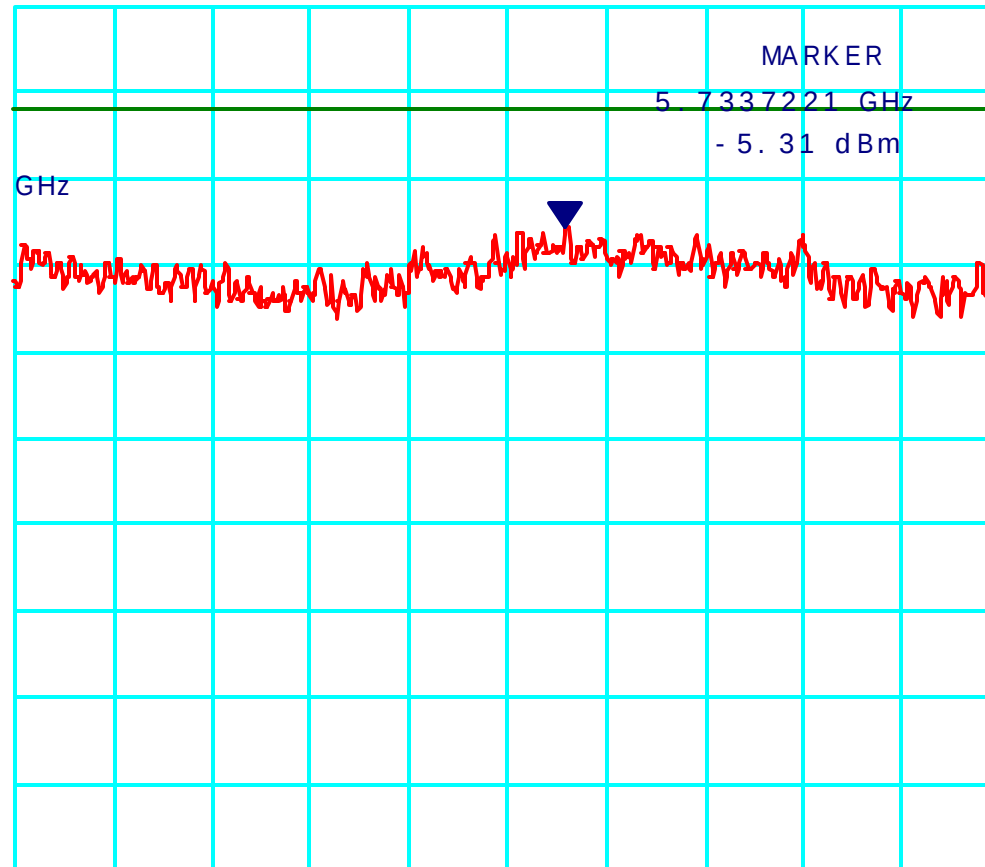
100 kHz

SWP

1000 s

CENTER 5.733693 GHz

SPAN 500 kHz



ANNEX 1 - PLOTS - Power Density in 3 kHz BW

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 77

FCC ID: QC8-AN50S



UltraTech
Engineering Labs Inc.

REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

Channel: 3, Tx Frequency: 5775 MHz, Power Output: 25.44 dBm

Modulation: 16QAM (36 Mb/s)

Power Spectral Density

Date: February 15, 2003

Tested by: Hung Trinh

Sat Feb 15 09:21:06 2003

REF 20.0 dBm

ATT 20 dB

A_v i e w B _ b l a n k

10 dB /

M K R

5.7737221 GHz

MARKER

5.7737221 GHz

-4.06 dBm

REF OFS

11.5 dB

RBW

3 kHz

VBW

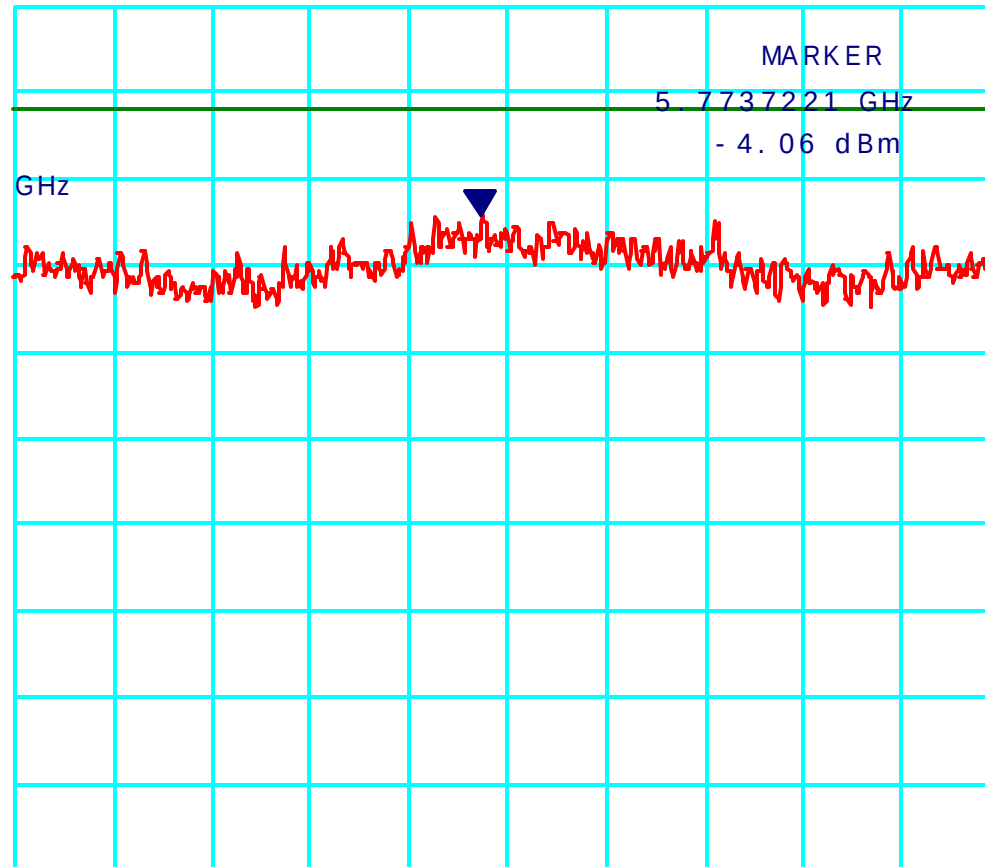
100 kHz

SWP

1000 s

CENTER 5.77374 GHz

SPAN 500 kHz



ANNEX 1 - PLOTS - Power Density in 3 kHz BW

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S



UltraTech
Engineering Labs Inc.

REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

Channel: 5, Tx Frequency: 5815 MHz, Power Output: 26.03 dBm

Modulation: 16QAM (36 Mb/s)

Power Spectral Density

PLOT # 78

FCC ID: QC8-AN50S

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 04:57:15 2003

REF 20.0 dBm

ATT 20 dB

A_v i e w B _ b l a n k

10 dB /

M K R

5.8144071 GHz

MARKER

5.8144071 GHz

- 0.03 dBm

REF OFS

11.5 dB

RBW

3 kHz

VBW

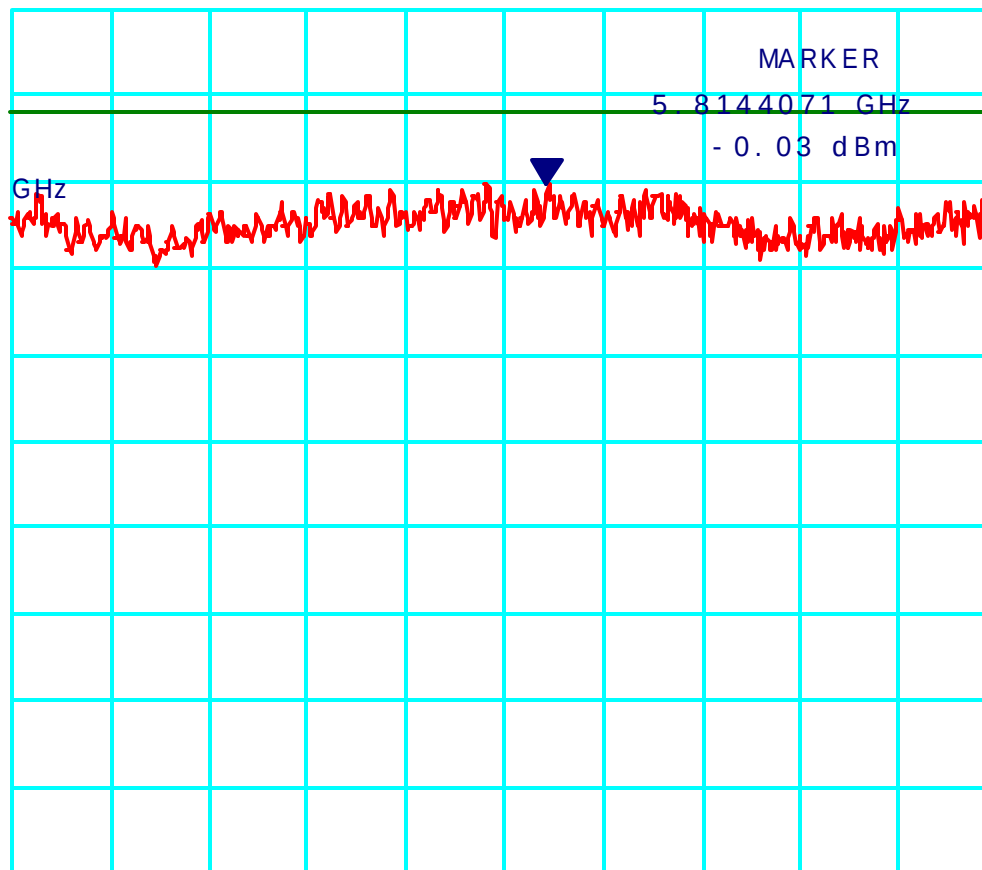
100 kHz

SWP

1000 s

CENTER 5.814386 GHz

SPAN 500 kHz



ANNEX 1 - PLOTS - Power Density in 3 kHz BW

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 79

FCC ID: QC8-AN50S



REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

Channel: 1, Tx Frequency: 5735 MHz, Power Output: 24.56 dBm

Modulation: QPSK (18 Mb/s)

Power Spectral Density

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 05:29:01 2003

REF 20.0 dBm

ATT 20 dB

A_view B_blank

10 dB/

MKR

5.7336971 GHz

MARKER

5.7336971 GHz

-3.69 dBm

REF OFS

11.5 dB

RBW

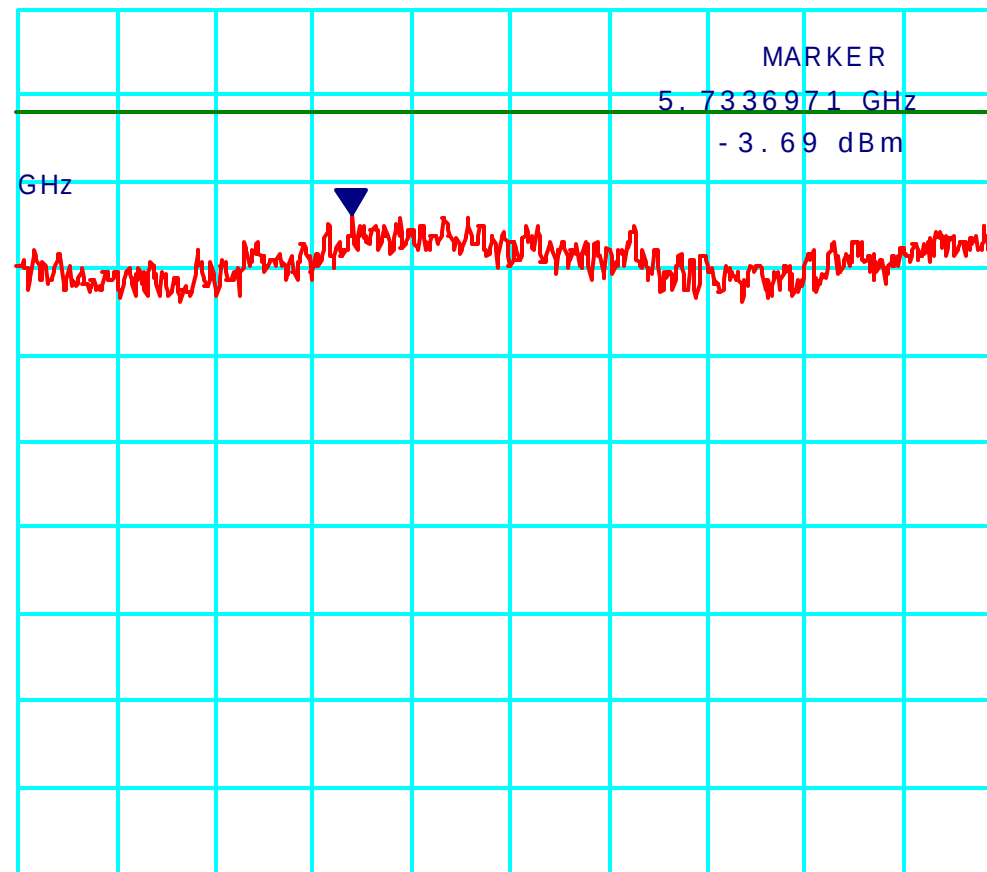
3 kHz

VBW

100 kHz

SWP

1000 s



CENTER 5.733779 GHz

SPAN 500 kHz

ANNEX 1 - PLOTS - Power Density in 3 kHz BW

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 80

FCC ID: QC8-AN50S



UltraTech
Engineering Labs Inc.

REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

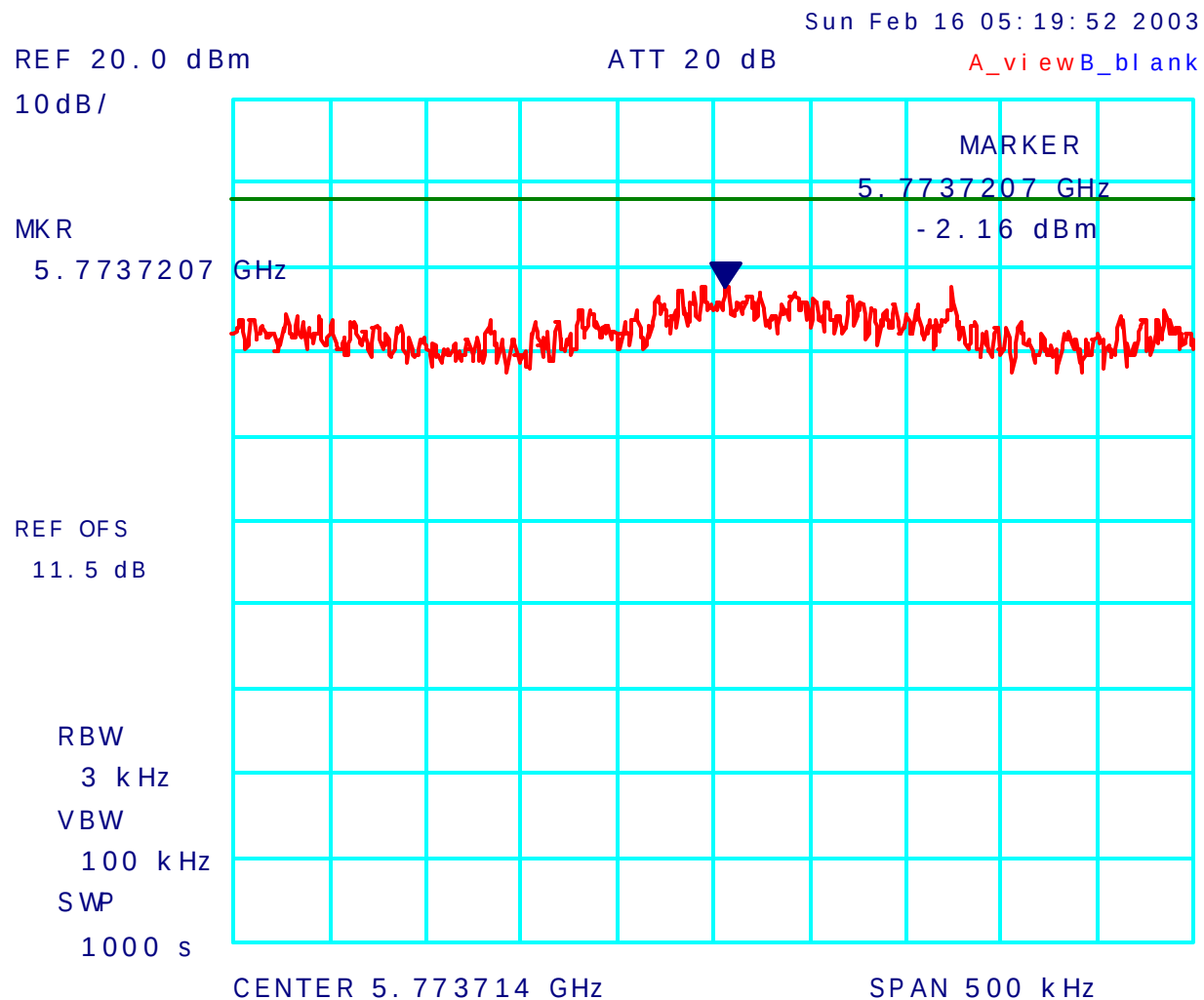
Channel: 3, Tx Frequency: 5775 MHz, Power Output: 25.44 dBm

Modulation: QPSK (18 Mb/s)

Power Spectral Density

Date: February 16, 2003

Tested by: Hung Trinh



ANNEX 1 - PLOTS - Power Density in 3 kHz BW

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 81

FCC ID: QC8-AN50S



UltraTech
Engineering Labs Inc.

REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

Channel: 5, Tx Frequency: 5815 MHz, Power Output: 26.03 dBm

Modulation: QPSK (18 Mb/s)

Power Spectral Density

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 05:08:59 2003

REF 20.0 dBm

ATT 20 dB

A_v i e w B _ b l a n k

10 dB /

MK R

5.8144043 GHz

MARKER

5.8144043 GHz

- 0.75 dBm

REF OFS

11.5 dB

RBW

3 kHz

VBW

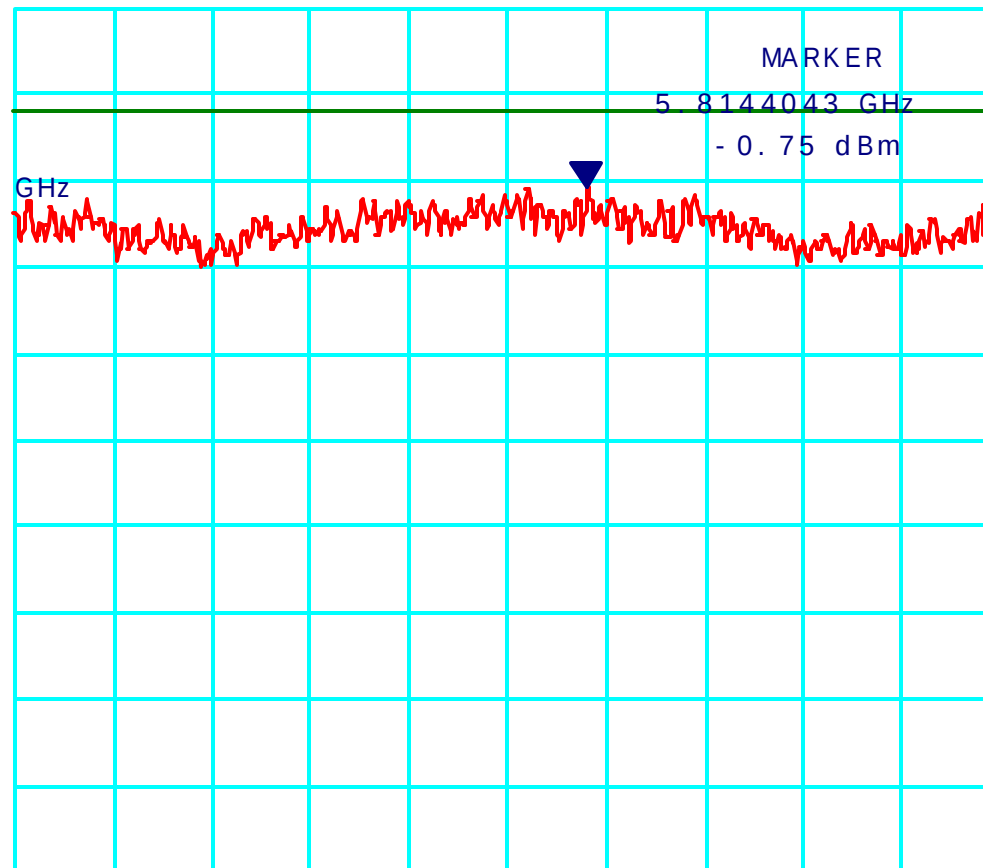
100 kHz

SWP

1000 s

CENTER 5.814364 GHz

SPAN 500 kHz



ANNEX 1 - PLOTS - Power Density in 3 kHz BW

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S



UltraTech
Engineering Labs Inc.

REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

Channel: 1, Tx Frequency: 5735 MHz, Power Output: 24.56 dBm

Modulation: BPSK (9 Mb/s)

Power Spectral Density

PLOT # 82

FCC ID: QC8-AN50S

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 05:39:53 2003

REF 20.0 dBm

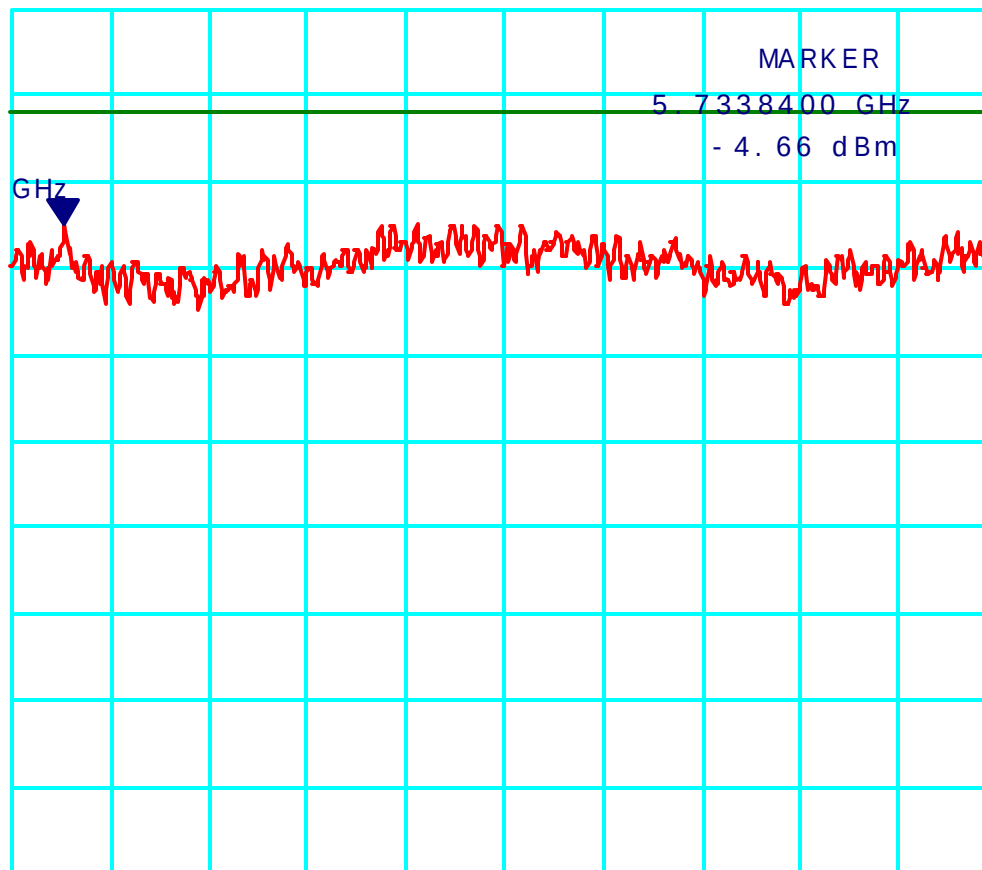
ATT 20 dB

A_v i e w B _ b l a n k

10 dB /

M K R

5.7338400 GHz



CENTER 5.734064 GHz

SPAN 500 kHz

ANNEX 1 - PLOTS - Power Density in 3 kHz BW

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 83

FCC ID: QC8-AN50S



UltraTech
Engineering Labs Inc.

REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

Channel: 3, Tx Frequency: 5775 MHz, Power Output: 25.44 dBm

Modulation: BPSK (9 Mb/s)

Power Spectral Density

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 05:47:17 2003

REF 20.0 dBm

ATT 20 dB

A_v i e w B _ l a n k

10 dB /

M K R

5.7740386 GHz

MARKER

5.7740386 GHz

- 3.75 dBm

REF OFS

11.5 dB

RBW

3 kHz

VBW

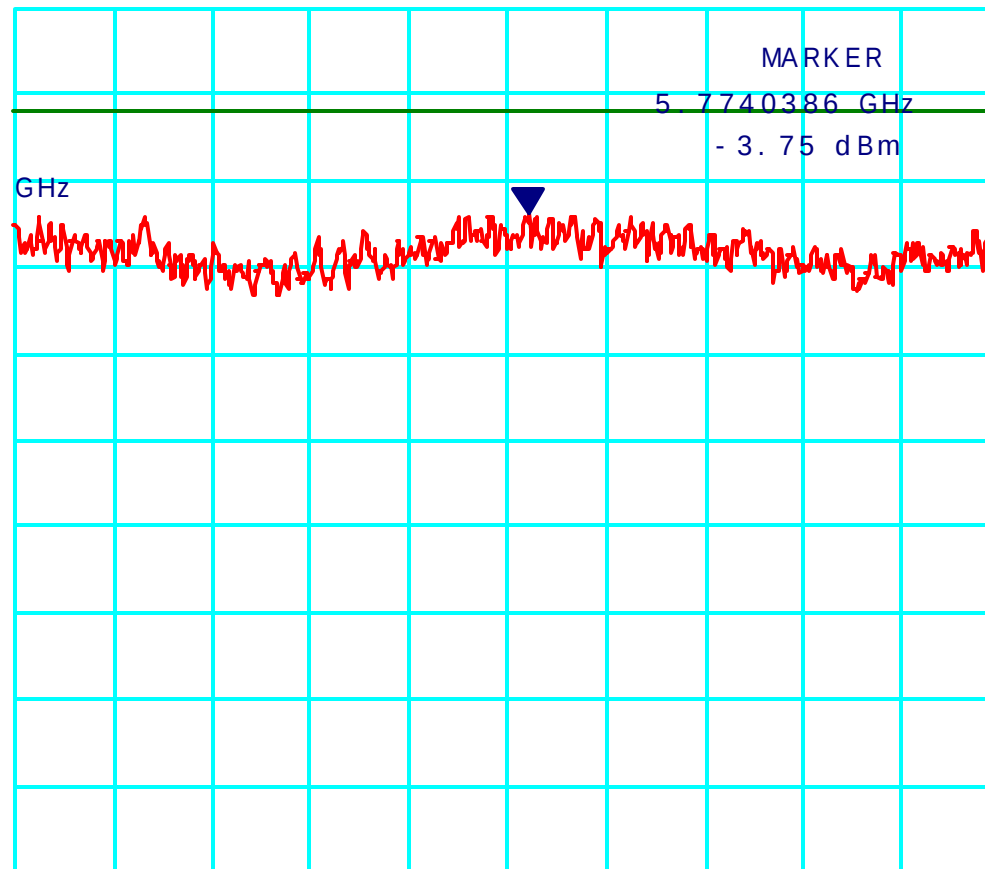
100 kHz

SWP

1000 s

CENTER 5.774029 GHz

SPAN 500 kHz



ANNEX 1 - PLOTS - Power Density in 3 kHz BW

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 84

FCC ID: QC8-AN50S



UltraTech
Engineering Labs Inc.

REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

Channel: 5, Tx Frequency: 5815 MHz, Power Output: 26.03 dBm

Modulation: BPSK (9 Mb/s)

Power Spectral Density

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 06:00:39 2003

REF 20.0 dBm

ATT 20 dB

A_view B_blank

10 dB/

MKR

5.8138386 GHz

MARKER

5.8138386 GHz

-2.78 dBm

REF OFS

11.5 dB

RBW

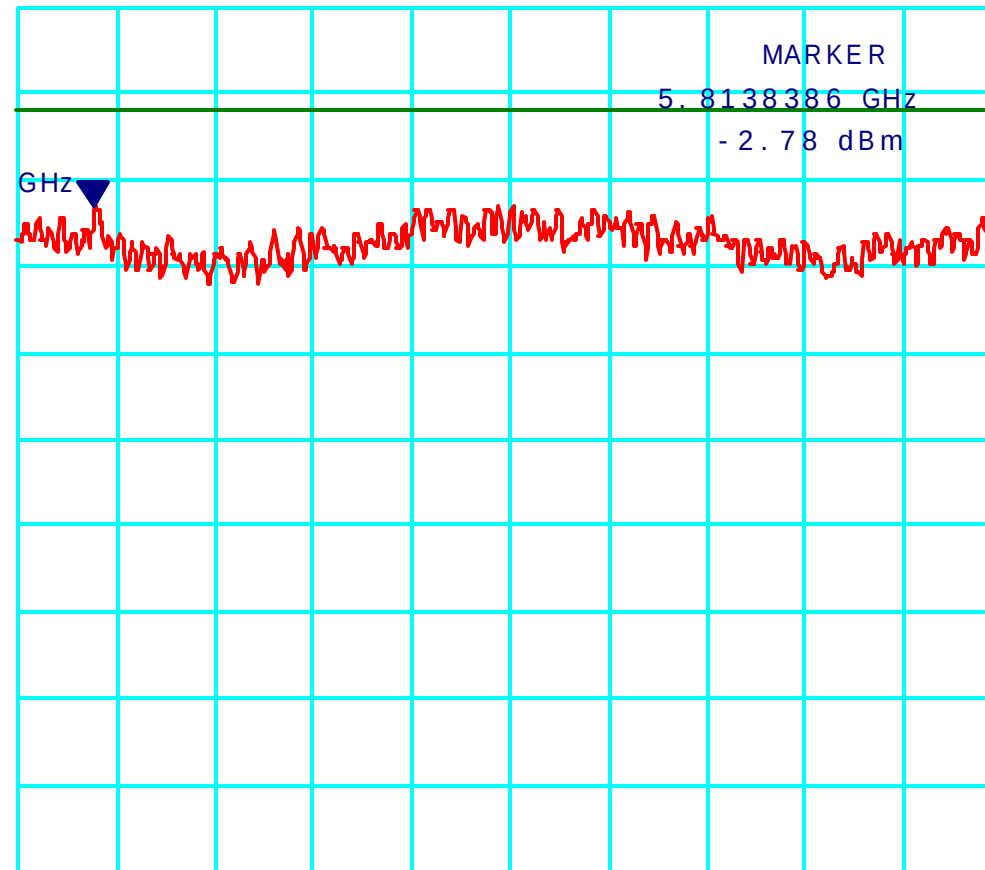
3 kHz

VBW

100 kHz

SWP

1000 s



CENTER 5.814050 GHz

SPAN 500 kHz