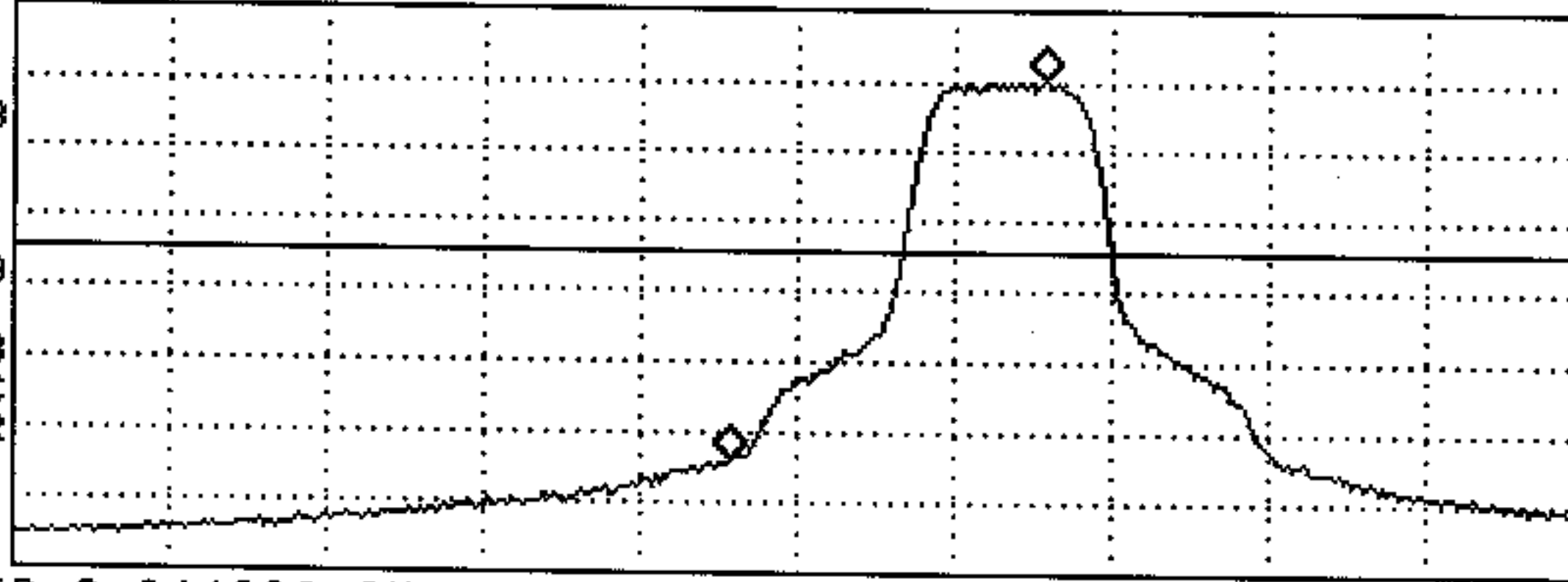


11:34:26 NOV 15, 2001
 TSI OUPP1804-2 QPSK 128K 2.64426GHz

ACTV DET: SMPL
 MEAS DET: PEAK QP AVG
 MKRΔ -250 kHz
 -53.76 dB

LOG REF OFFST 12.1 dB
 10 REF 18.1 dBm

dB/
 ATN
 20 dB
 AVG
 100
 DL
 -16.9
 dBm
 VA SB
 SC FC
 CORR



CENTER 2.644000 GHz SPAN 1.250 MHz
 #IF BW 10 kHz AVG BW 10 kHz SWP 37.5 msec

54

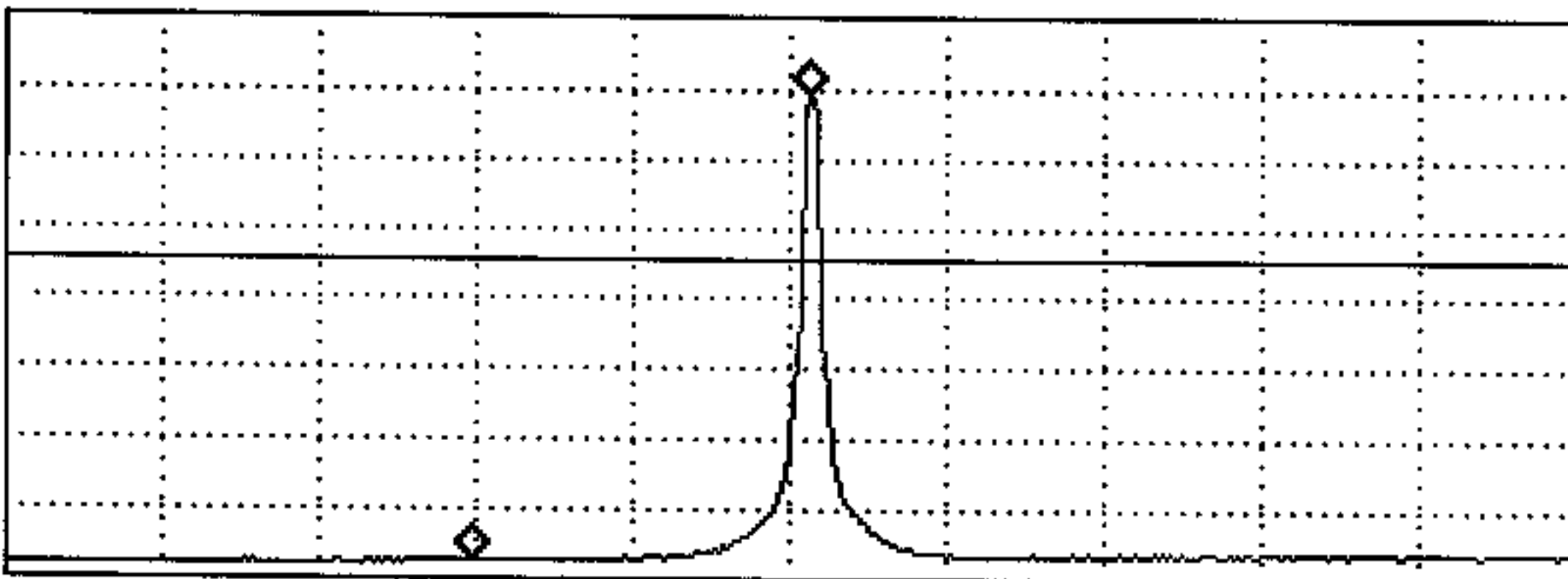
11:38:16 NOV 15, 2001
 TSI OUPP1804-2 QPSK 128K 2.64426GHz

MARKER Δ
 3.23 MHz
 66.16 dB

ACTV DET: SMPL
 MEAS DET: PEAK QP AVG
 MKRΔ 3.23 MHz
 66.16 dB

REF OFFST 12.1 dB
 REF 18.1 dBm

LOG
 10
 dB/
 ATN
 20 dB
 AVG
 100
 DL
 -16.9
 dBm
 VA SB
 SC FC
 CORR



CENTER 2.644000 GHz SPAN 15.00 MHz
 #IF BW 10 kHz AVG BW 10 kHz SWP 450 msec

MARKER
 NORMAL

MARKER
 Δ

MARKER
 AMPTD

SELECT
 1 2 3 4

MARKER 1
 ON OFF

More
 1 of 3

55

11:25:44 NOV 21, 2001

TS1 OUPP1804-2 QPSK 128K 2.68596Hz

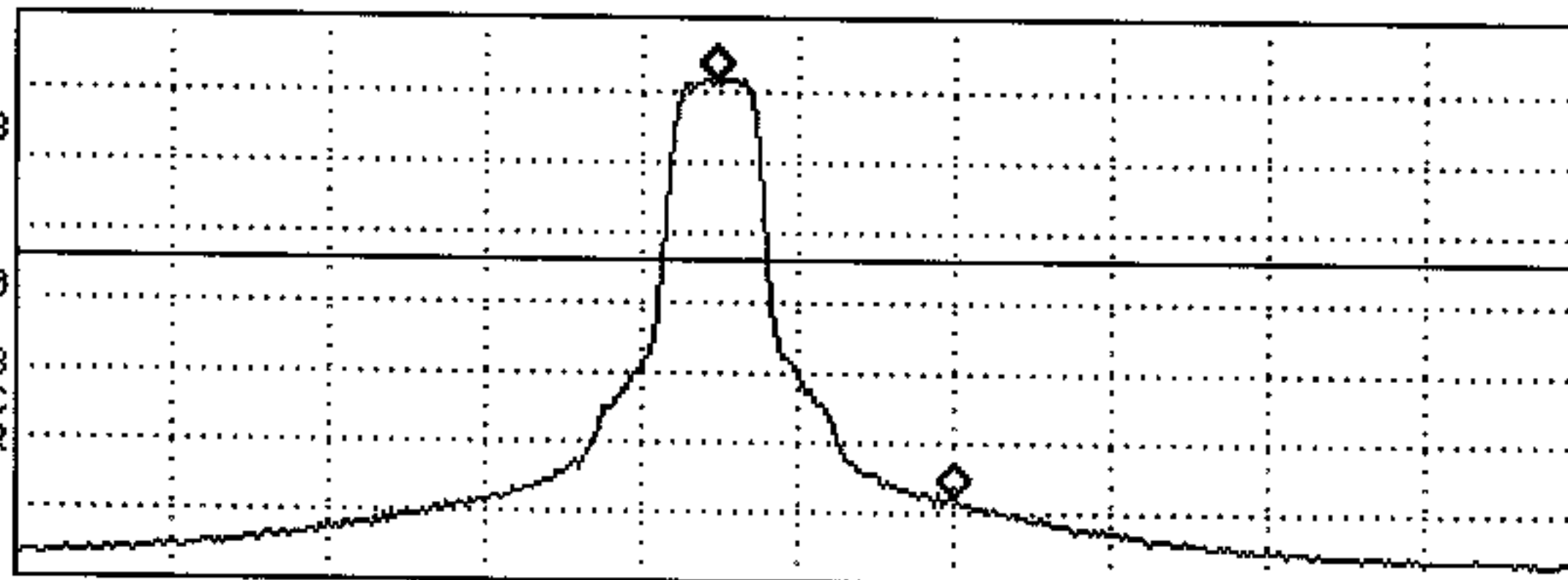
MARKER Δ
381 kHz
-59.16 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ 381 kHz
-59.16 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 16.1 dBm

LOG
10
dB/
ATN
20 dB
AVG
100
DL
-18.0
dBm
WA SB
SC FC
CORR



CENTER 2.686000 GHz
#IF BW 10 kHz

#AVG BW 10 kHz

SPAN 2.500 MHz
SWP 75.0 msec

MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

56

11:27:15 NOV 21, 2001

TS1 OUPP1804-2 QPSK 128K 2.68596Hz

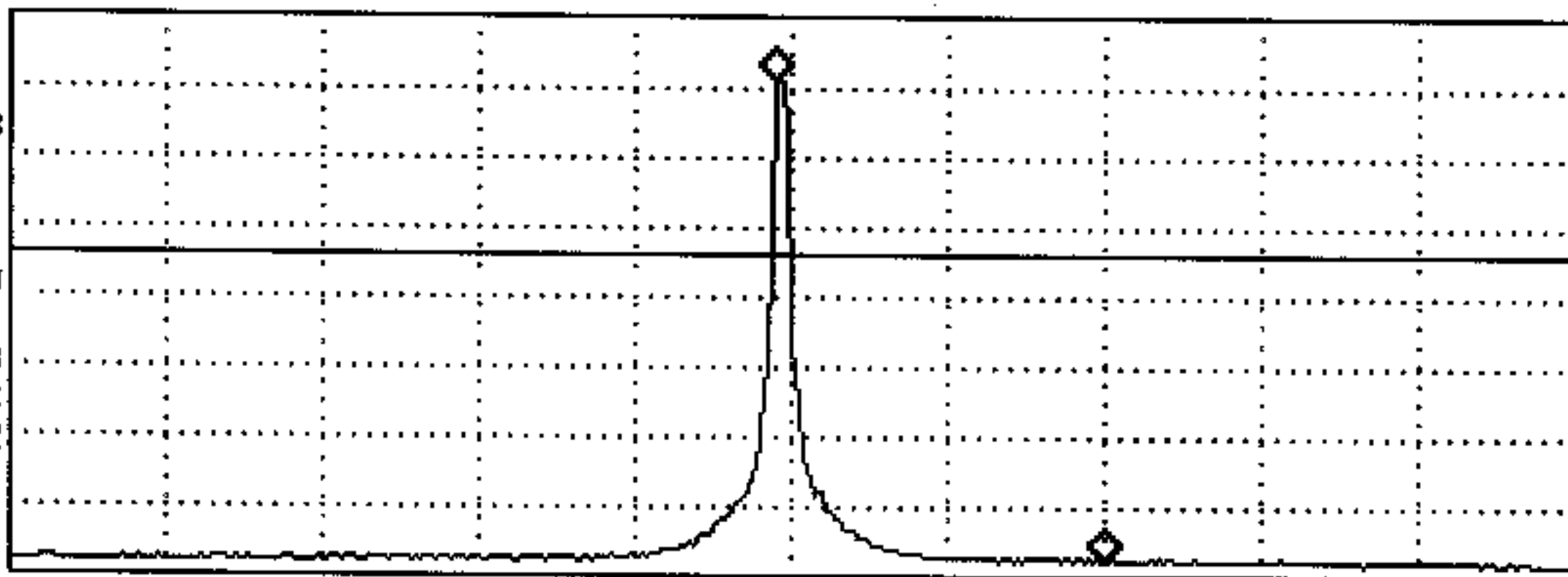
MARKER Δ
3.15 MHz
-68.39 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ 3.15 MHz
-68.39 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 16.1 dBm

LOG
10
dB/
ATN
20 dB
AVG
100
DL
-18.0
dBm
WA SB
SC FC
CORR



CENTER 2.686000 GHz
#IF BW 10 kHz

#AVG BW 10 kHz

SPAN 15.00 MHz
SWP 450 msec

MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

57

11:44:06 NOV 15, 2001
TSI OUPP1804-2 QPSK 160K 2.6442GHz

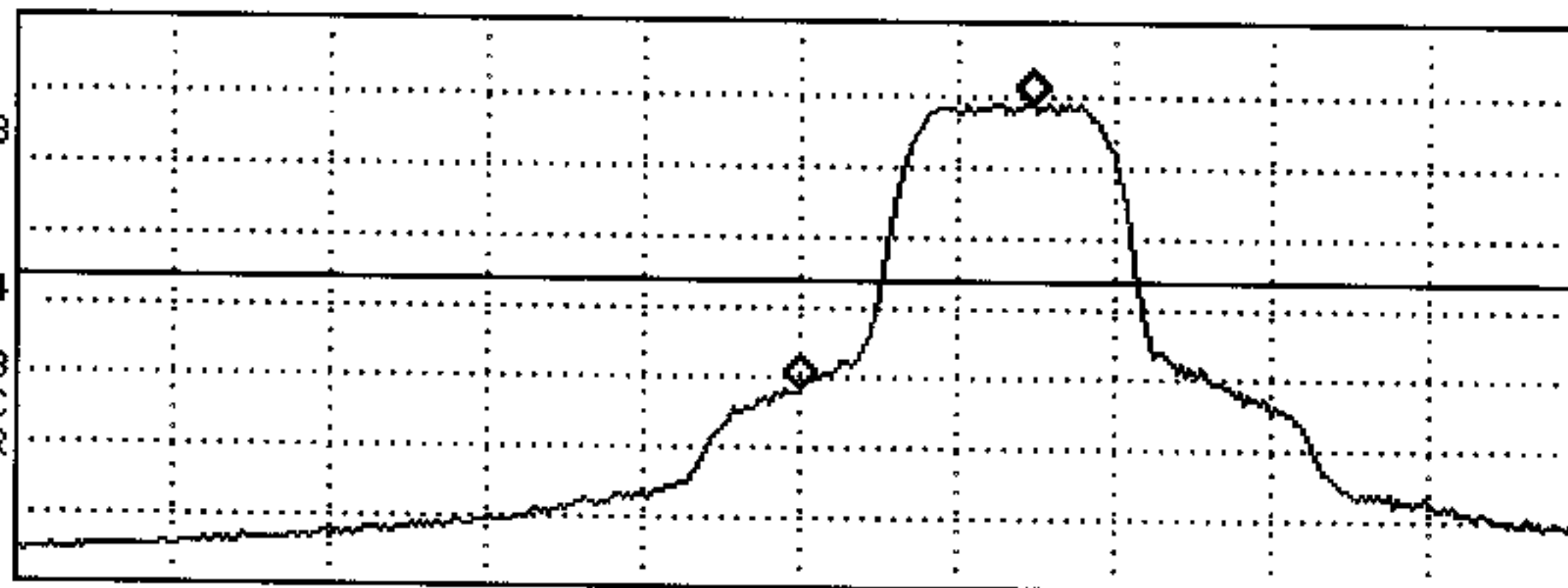
MARKER Δ
-184 kHz
-40.16 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ -184 kHz
-40.16 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 18.1 dBm

LOG
10
dB/
ATN
20 dB
AVG
100
DL
-18.4
dBm
VA SB
SC FC
CORR



MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

58

11:46:57 NOV 15, 2001
TSI OUPP1804-2 QPSK 160K 2.6442GHz

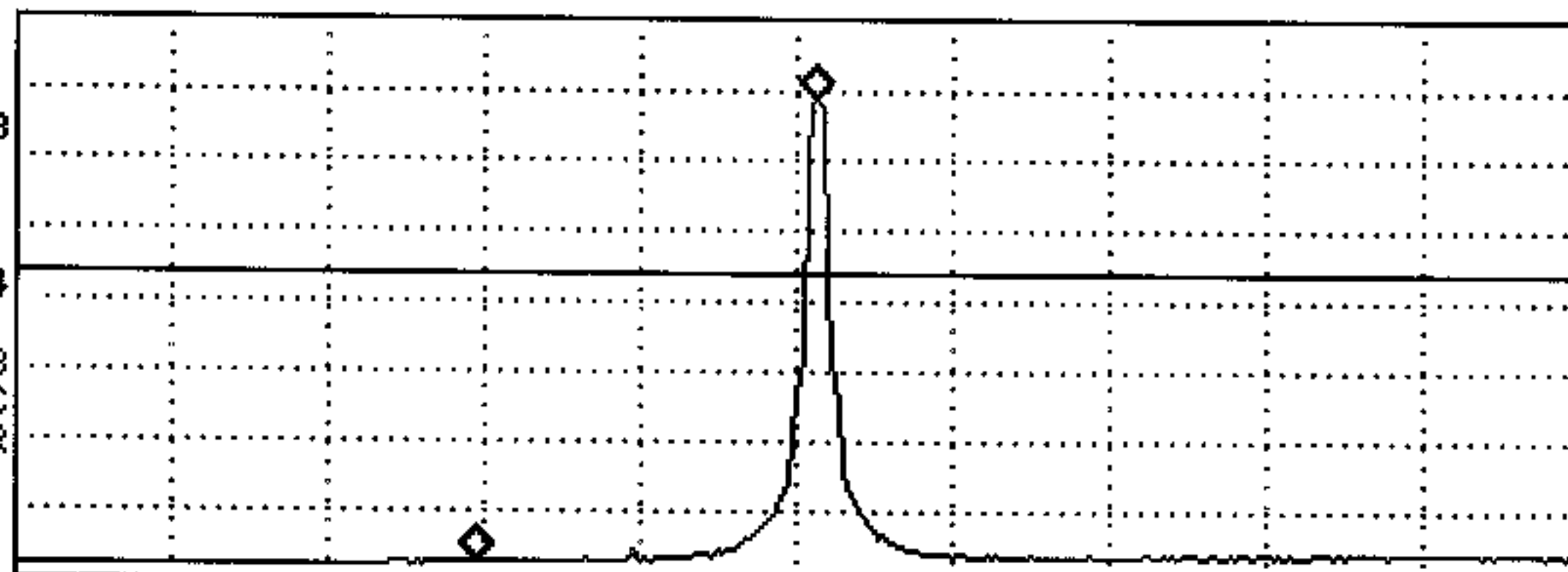
MARKER Δ
-3.26 MHz
-65.68 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ -3.26 MHz
-65.68 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 18.1 dBm

LOG
10
dB/
ATN
20 dB
AVG
100
DL
-18.4
dBm
VA SB
SC FC
CORR



MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

59

11:20:26 NOV 21, 2001
TSI OUPP1804-2 QPSK 160K 2.6859GHz

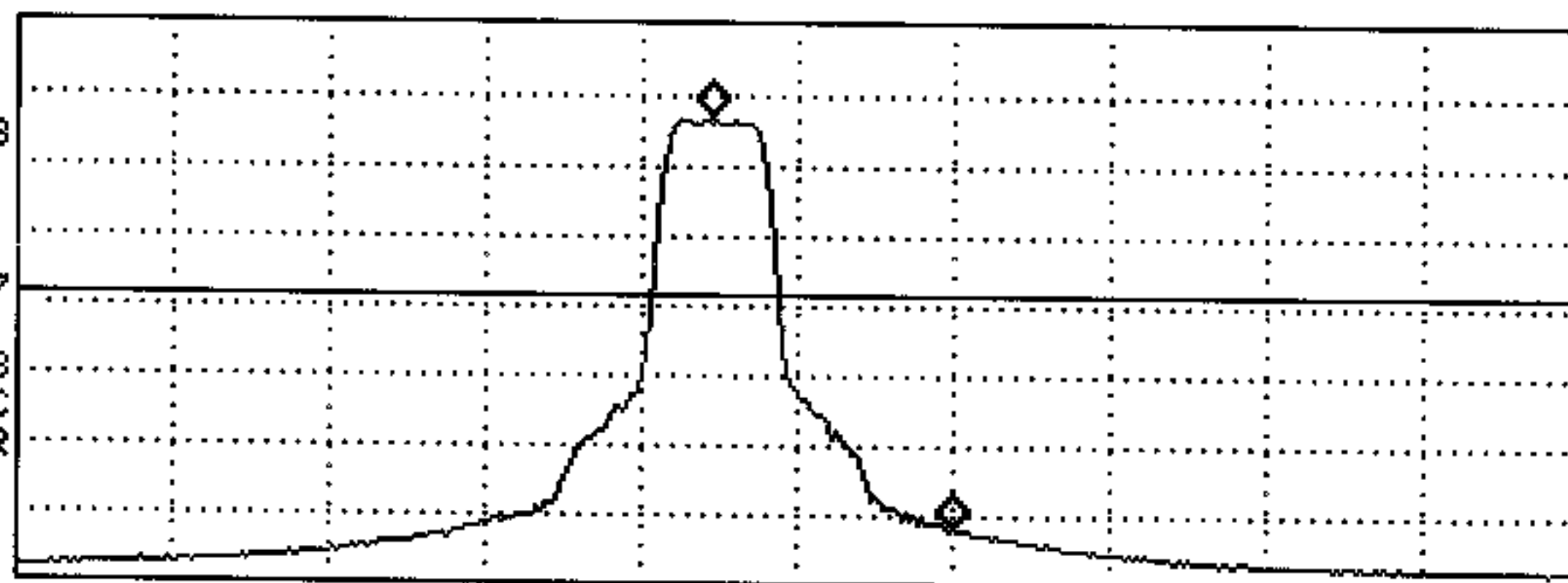
DISPLAY LINE
-18.7 dBm

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRΔ 388 kHz
-58.69 dB

HOLD

LOG REF OFFST 12.1 dB
10 REF 20.1 dBm
dB/
ATN

20 dB
AVG
100
DL
-18.7
dBm
WA SB
SC FC
CORR



CENTER 2.686000 GHz
#IF BW 10 kHz

#AVG BW 10 kHz

SPAN 2.500 MHz
SWP 75.0 msec

DSP LINE
ON OFF

Change
Title

Limit
Lines

ANALOG+
ON OFF

More
1 of 2

60

11:22:37 NOV 21, 2001
TSI OUPP1804-2 QPSK 160K 2.6859GHz

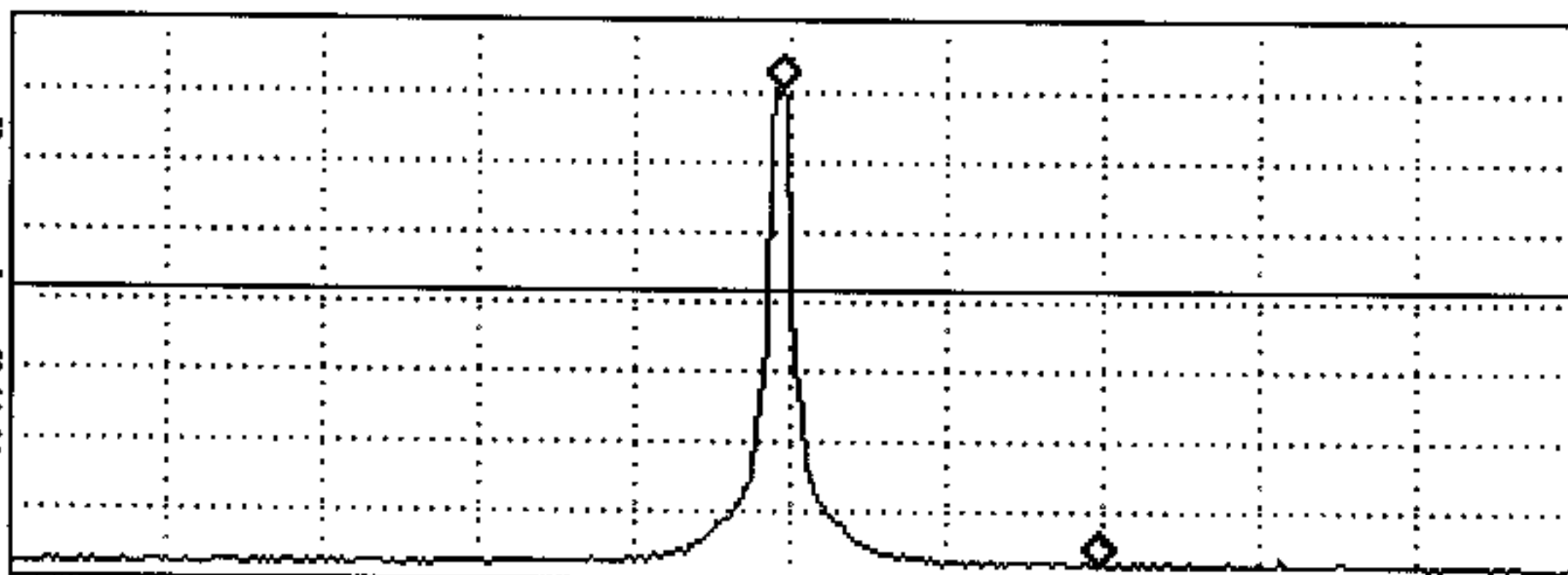
MARKER Δ
3.04 MHz
-67.44 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRΔ 3.04 MHz
-67.44 dB

MARKER
NORMAL

LOG REF OFFST 12.1 dB
10 REF 16.1 dBm
dB/
ATN

20 dB
AVG
100
DL
-22.7
dBm
WA SB
SC FC
CORR



CENTER 2.686000 GHz
#IF BW 10 kHz

#AVG BW 10 kHz

SPAN 15.00 MHz
SWP 450 msec

MARKER
Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

61

11:54:14 NOV 15, 2001

TS1 OUPP1804-2 QPSK 320K 2.6443GHz

MARKER Δ
-366 kHz
-36.15 dB

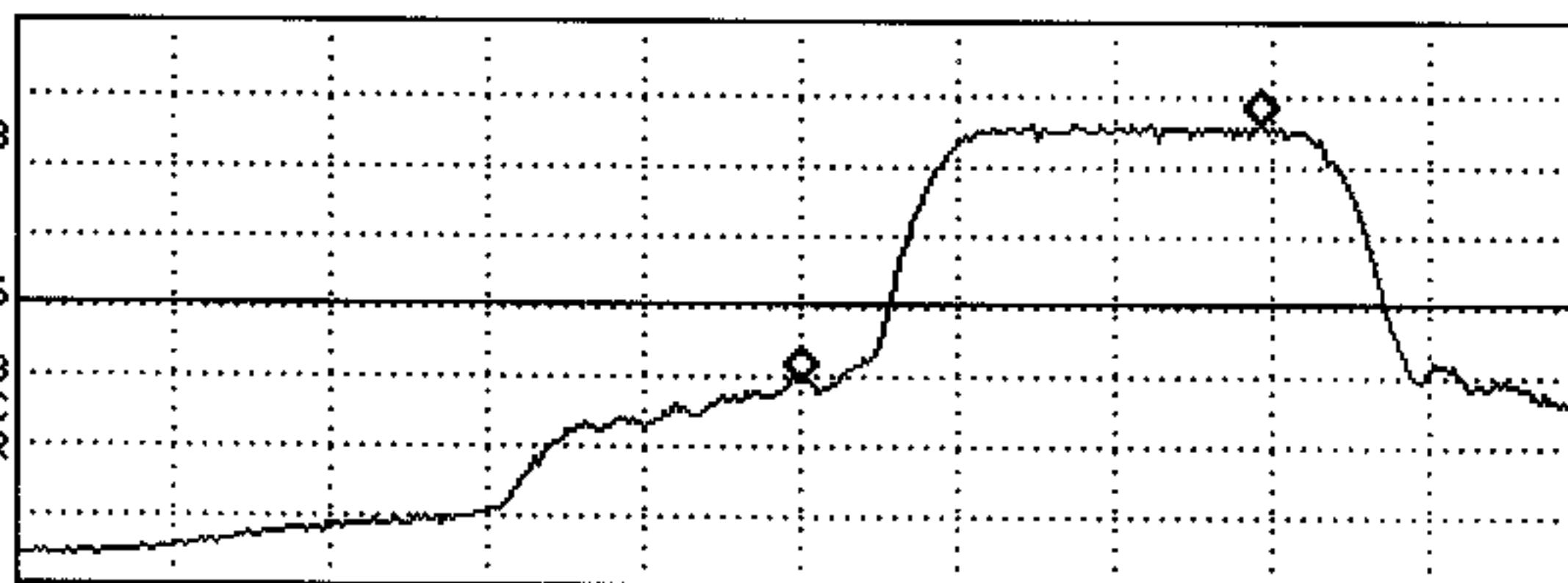
ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ -366 kHz
-36.15 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 18.1 dBm

MARKER
 Δ

LOG
10
dB/
ATN
20 dB
AVG
100
DL
-21.6
dBm
VA SB
SC FC
CORR



MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

CENTER 2.644000 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 1.250 MHz
SWP 37.5 msec

11:57:29 NOV 15, 2001
TSI OUPP1804-2 QPSK 320K 2.6443GHz

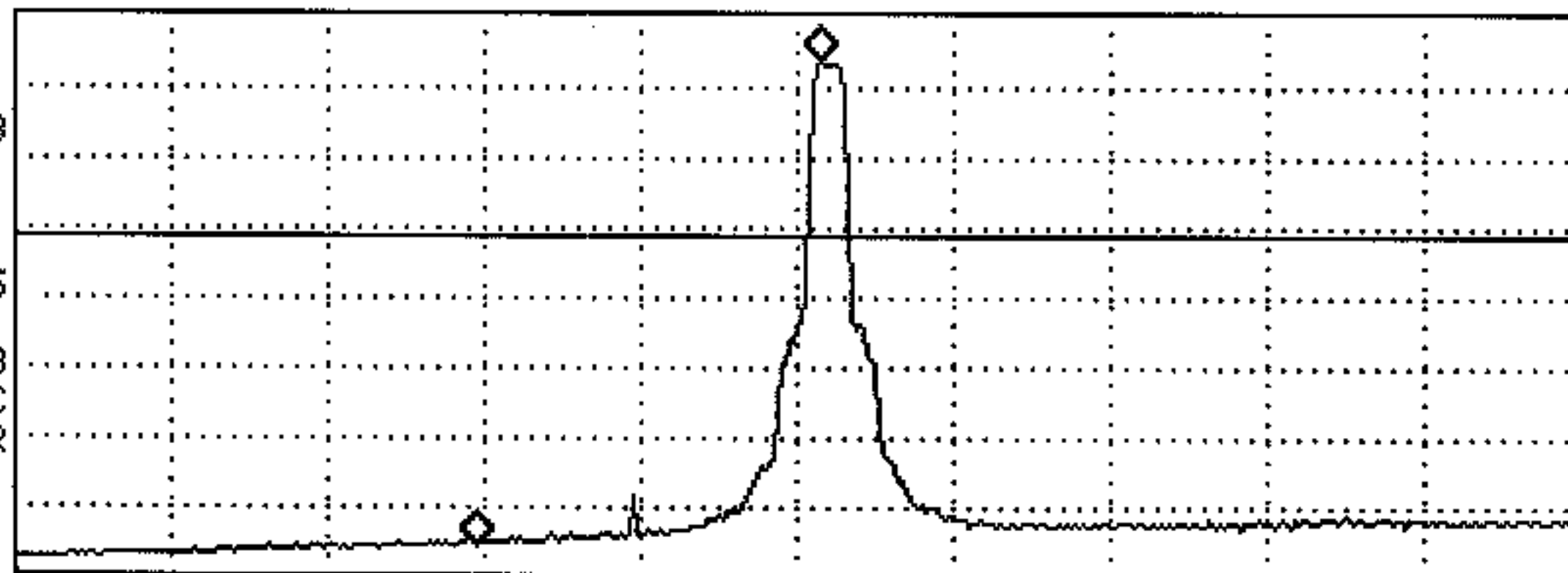
MARKER Δ
-3.30 MHz
-68.96 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA -3.30 MHz
-68.96 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 10.1 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-21.5
dBm
VA SB
SC FC
CORR



CENTER 2.64400 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 15.00 MHz
SWP 450 msec

MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

63

11:12:25 NOV 21, 2001
TSI OUPP1804-2 QPSK 320K 2.6858GHz

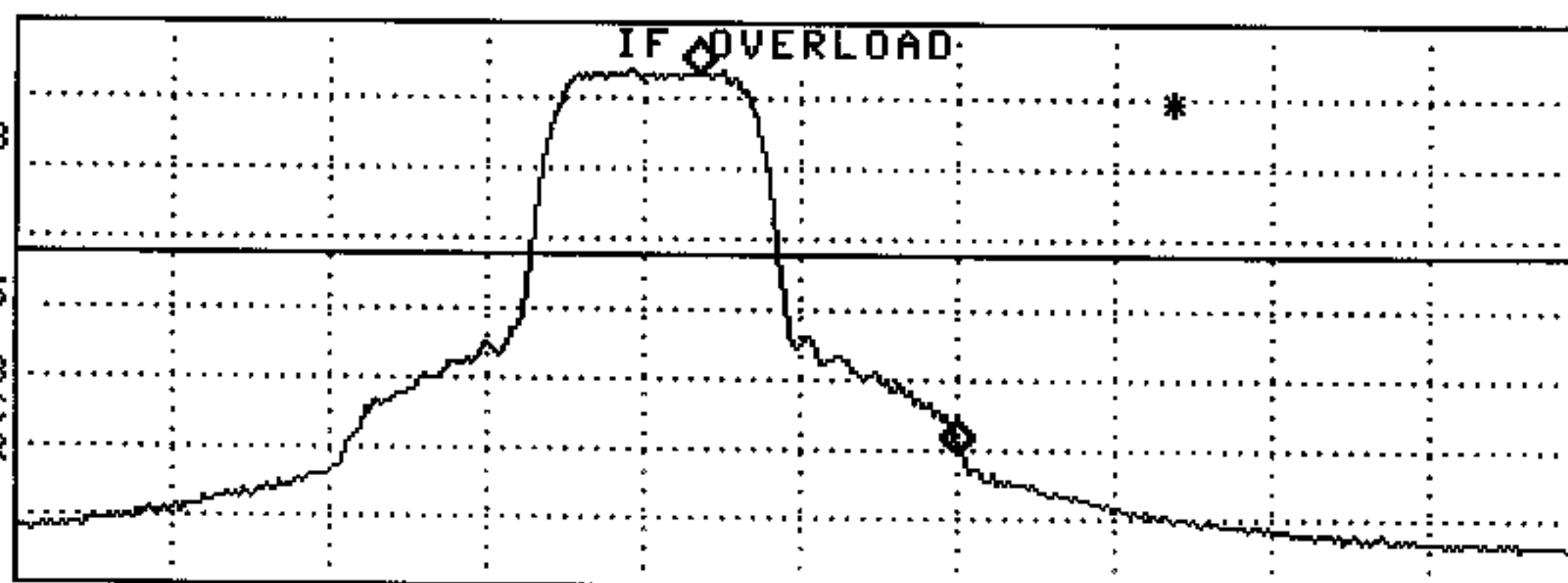
MARKER Δ
413 kHz
-53.66 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ 413 kHz
-53.66 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 10.1 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-22.5
dBm
WA SB
SC FC
CORR



CENTER 2.686000 GHz
#IF BW 10 kHz

#AVG BW 10 kHz

SPAN 2.500 MHz
SWP 75.0 msec

MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

64

11:14:00 NOV 21, 2001
TSI OUPP1804-2 QPSK 320K 2.6858GHz

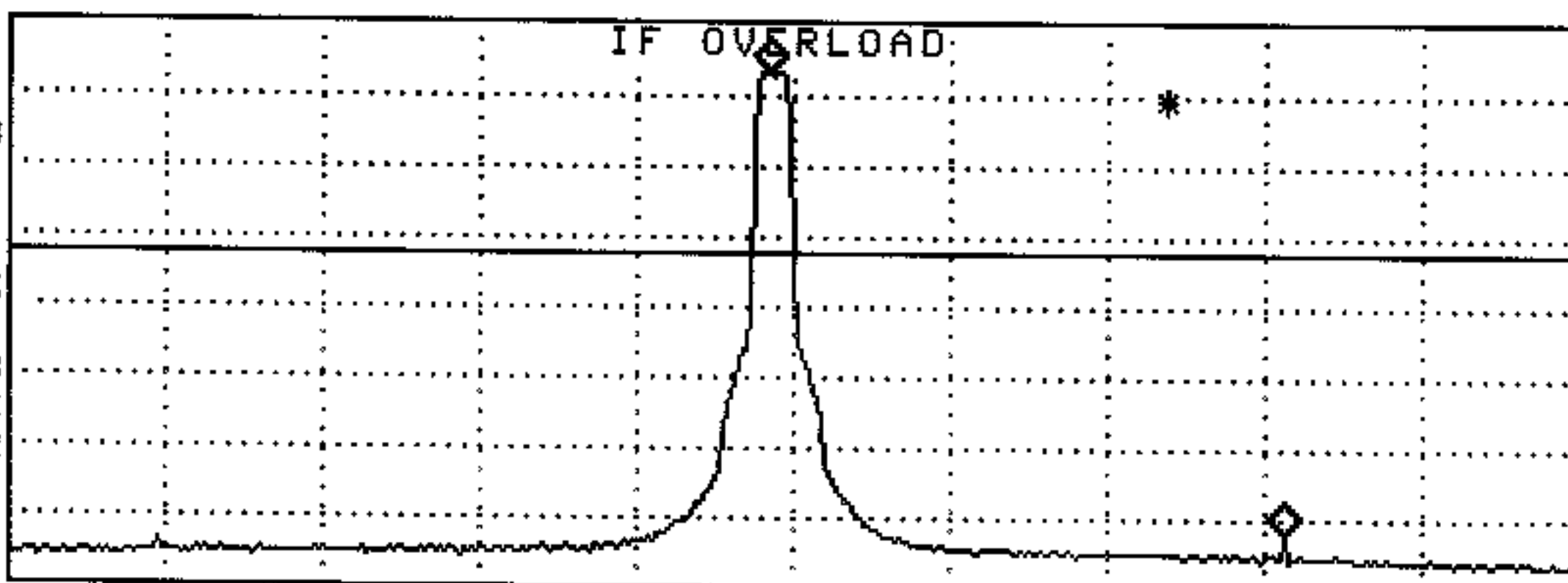
MARKER Δ
4.91 MHz
-65.35 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ 4.91 MHz
-65.35 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 10.1 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-22.5
dBm
WA SB
SC FC
CORR



CENTER 2.686000 GHz
#IF BW 10 kHz

#AVG BW 10 kHz

SPAN 15.00 MHz
SWP 450 msec

MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

65

12:04:15 NOV 15, 2001
TSI OUPP1804-2 QPSK 512K 2.6444GHz

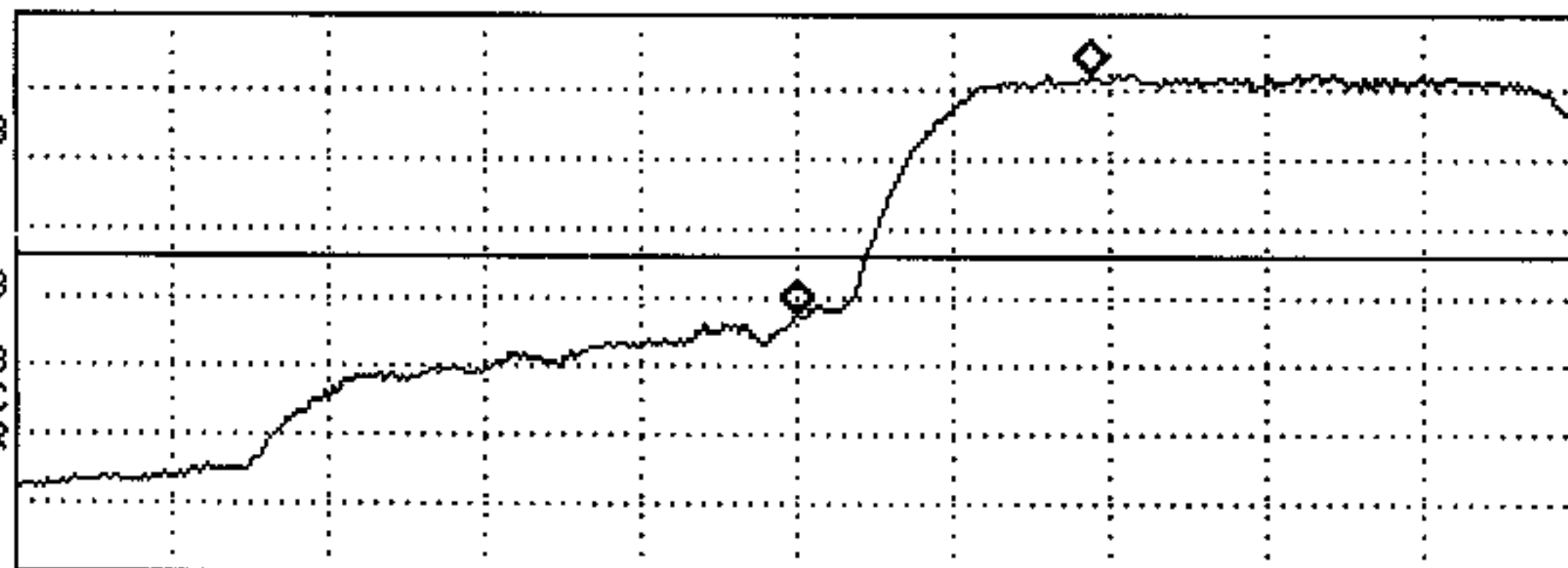
MARKER Δ
-234 kHz
-34.58 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ -234 kHz
-34.58 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 10.1 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-23.8
dBm
VA SB
SC FC
CORR



CENTER 2.644000 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 1.250 MHz
SWP 37.5 msec

MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

66

12:05:02 NOV 15, 2001
TSI OUPP1804-2 QPSK 512K 2.6444GHz

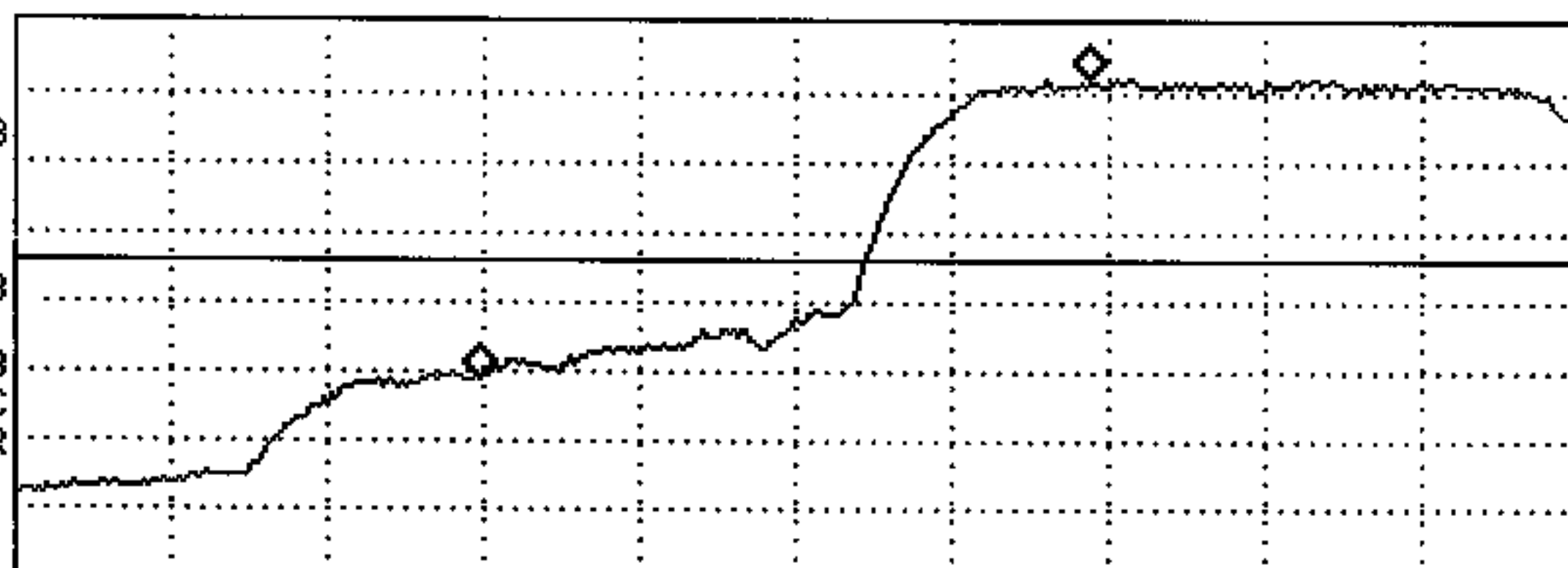
MARKER Δ
-488 kHz
-43.21 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ -488 kHz
-43.21 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 10.1 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-23.8
dBm
VA SB
SC FC
CORR



CENTER 2.644000 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 1.250 MHz
SWP 37.5 msec

MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

67

12:06:58 NOV 15, 2001
TSI OUPP1804-2 QPSK 512K 2.6444GHz

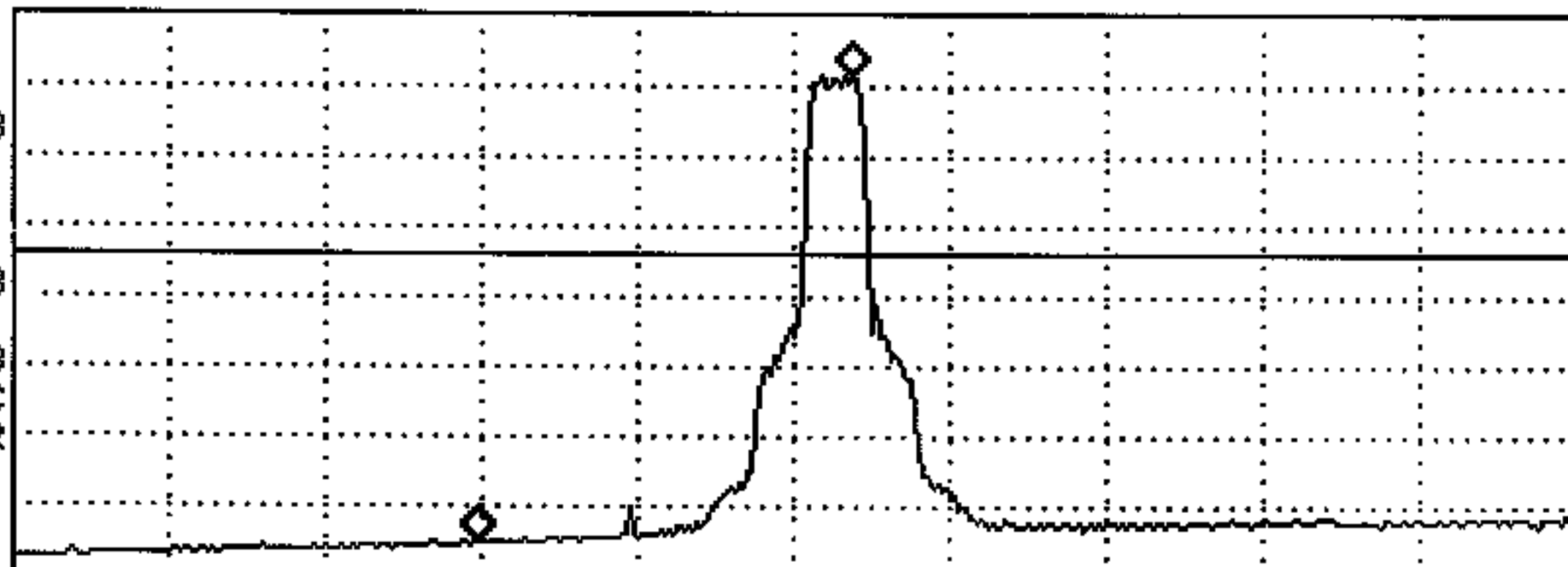
MARKER Δ
-3.60 MHz
-66.23 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ -3.60 MHz
-66.23 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 10.1 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-23.8
dBm
VA SB
SC FC
CORR



CENTER 2.64400 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 15.00 MHz
SWP 450 msec

MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

68

11:03:59 NOV 21, 2001

TSI OUPP1804-2 QPSK 512K 2.68570Hz

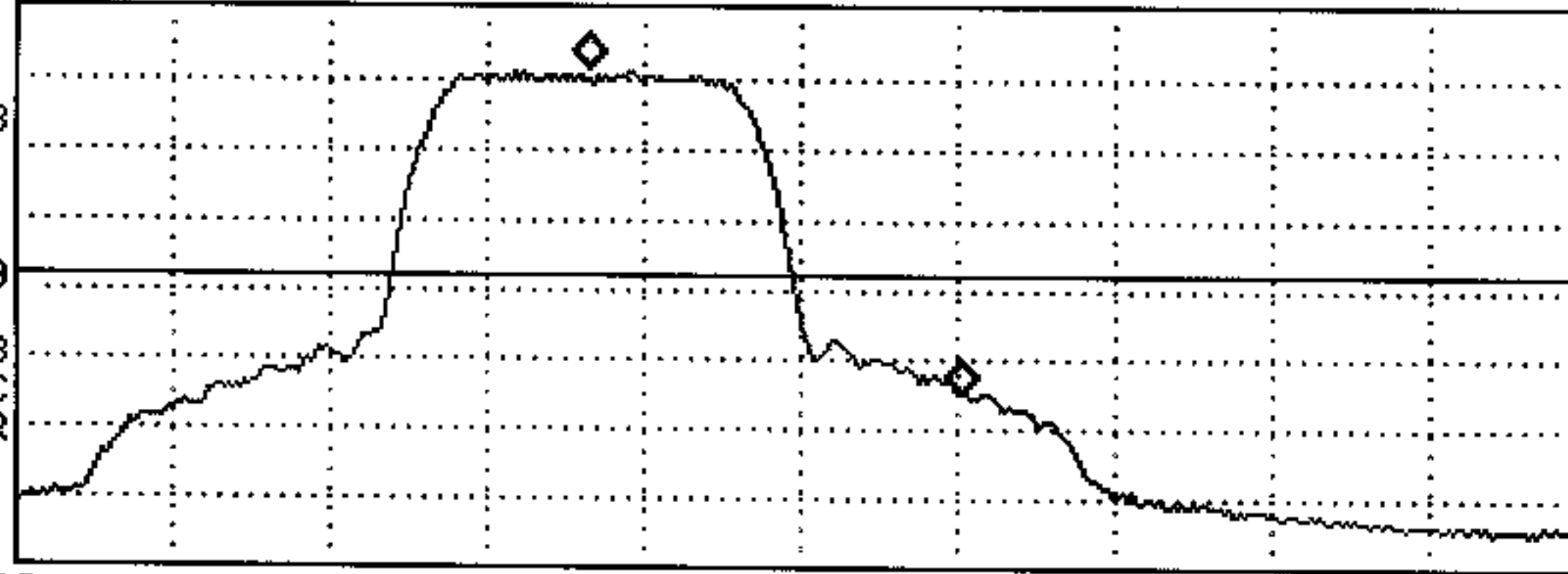
MARKER Δ
594 kHz
-46.26 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ 594 kHz
-46.26 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 10.1 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-27.9
dBm
WA SB
SC FC
CORR



MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

69

11:06:09 NOV 21, 2001

TSI OUPP1804-2 QPSK 512K 2.68570Hz

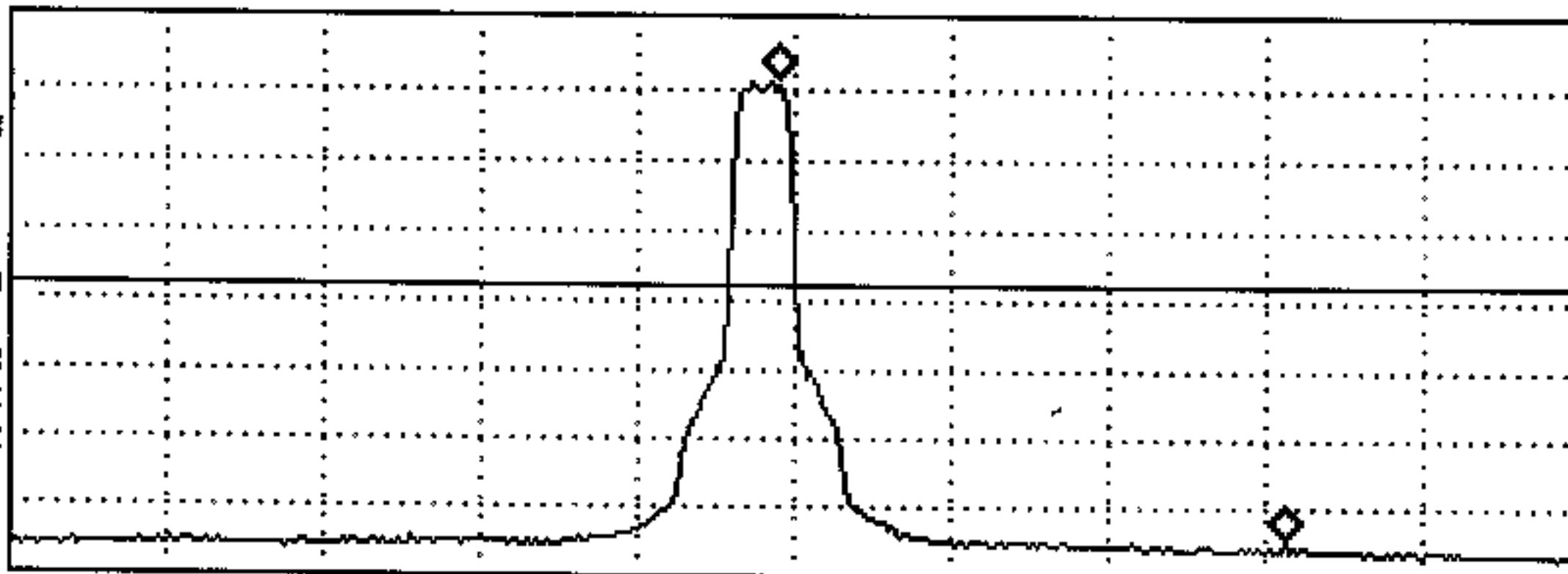
MARKER Δ
4.84 MHz
-65.24 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ 4.84 MHz
-65.24 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 10.1 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-27.9
dBm
WA SB
SC FC
CORR



MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

70

12:12:17 NOV 15, 2001
TSI OUPP1804-2 QPSK 640K 2.6446GHz

DISPLAY LINE
-24.5 dBm

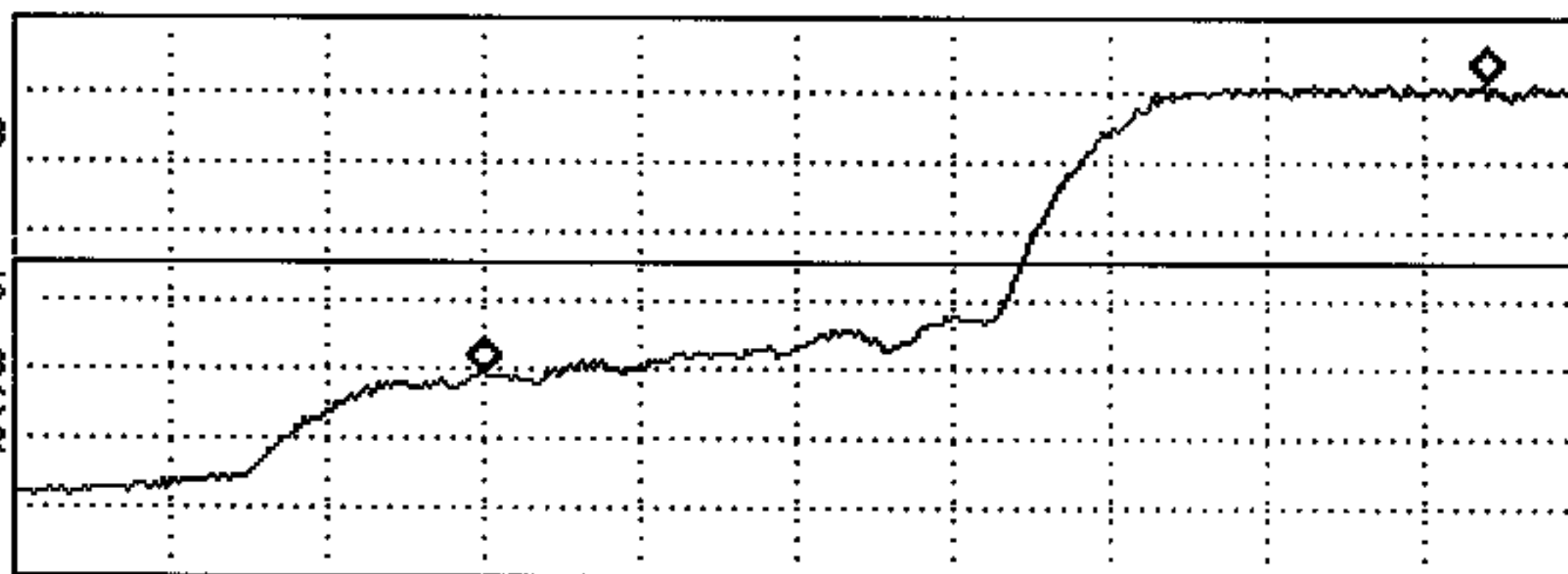
ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRΔ -800 kHz
-42.04 dB

HOLD

REF OFFST 12.1 dB
REF 10.1 dBm

DSP LINE
ON OFF

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-24.5
dBm
VA SB
SC FC
CORR



Change
Title

Limit
Lines

ANALOG+
ON OFF

More
1 of 2

CENTER 2.644000 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 1.250 MHz
SWP 37.5 msec

12:14:10 NOV 15, 2001
TSI OUPP1804-2 QPSK 640K 2.6446GHz

MARKER Δ
-3.71 MHz
-65.98 dB

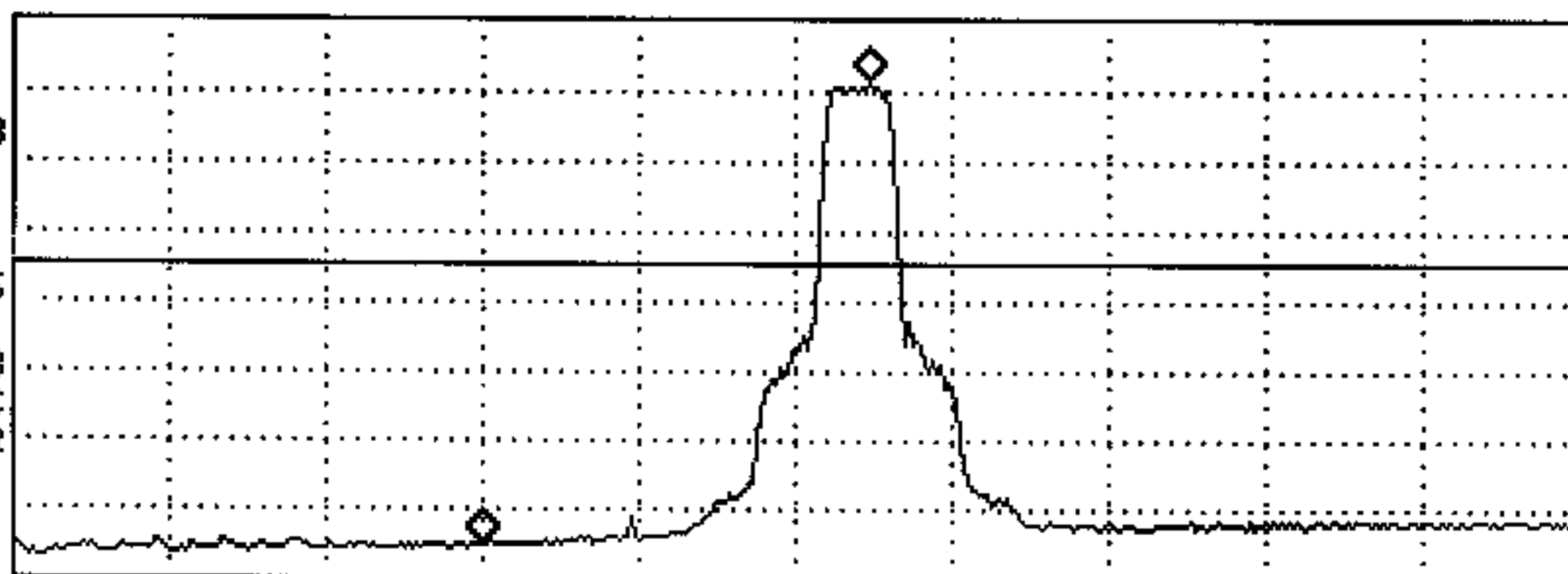
ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRΔ -3.71 MHz
-65.98 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 10.1 dBm

MARKER
Δ

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-24.5
dBm
VA SB
SC FC
CORR



MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

CENTER 2.64400 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 15.00 MHz
SWP 450 msec

10:56:12 NOV 21, 2001
TSI OUPP1804-2 QPSK 640K 2.6856GHz

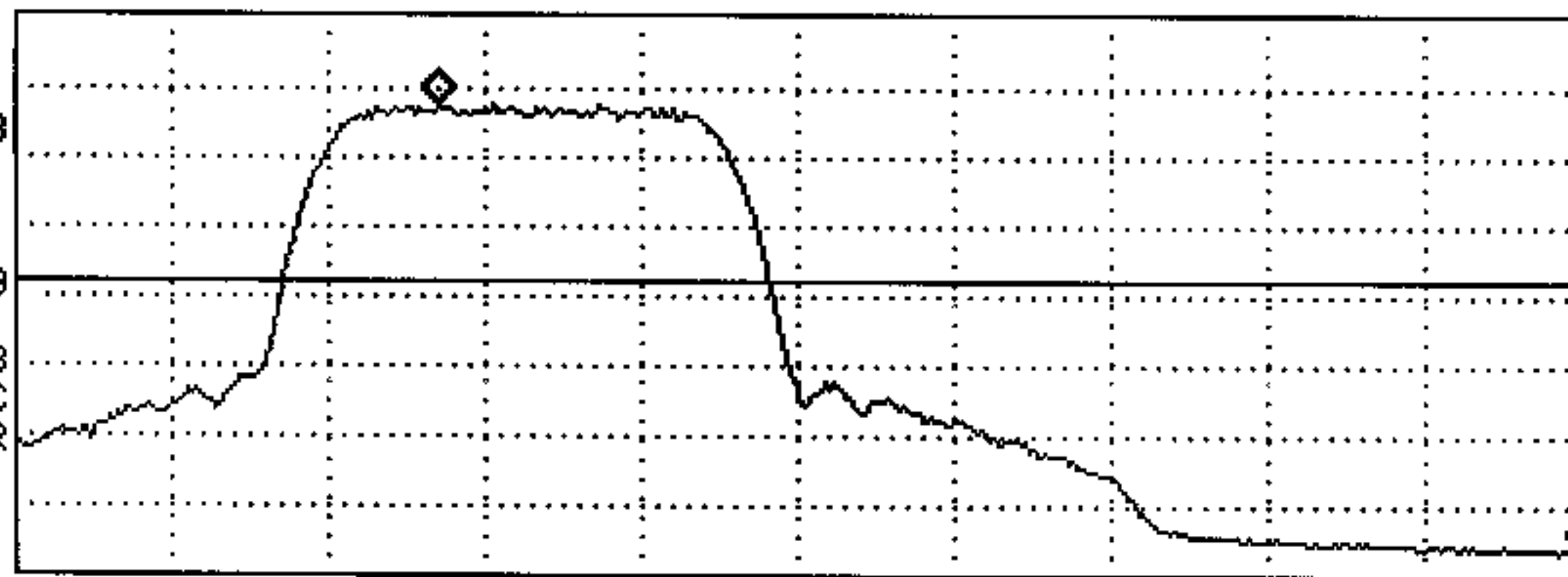
MARKER Δ
1.825 MHz
-63.29 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA 1.825 MHz
-63.29 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 12.1 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-25.9
dBm
WA SB
SC FC
CORR



CENTER 2.685600 GHz
#IF BW 10 kHz #AVG BW 10 kHz SPAN 2.500 MHz
SWP 75.0 msec

MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

73

10:59:18 NOV 21, 2001
TSI OUPP1804-2 QPSK 640K 2.6856GHz

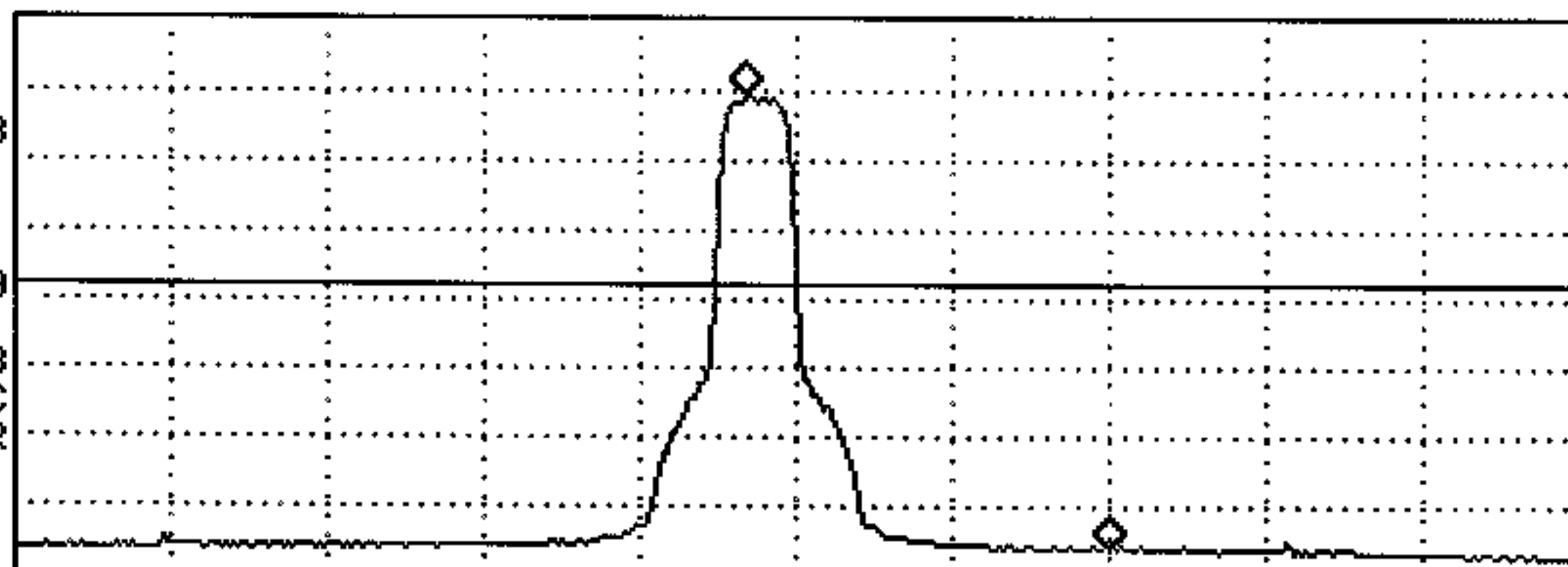
MARKER Δ
3.49 MHz
-65.13 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA 3.49 MHz
-65.13 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 10.1 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-27.9
dBm
WA SB
SC FC
CORR



CENTER 2.685600 GHz
#IF BW 10 kHz #AVG BW 10 kHz SPAN 15.00 MHz
SWP 450 msec

MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

74

12:21:53 NOV 15, 2001
TSI OUPP1804-2 QPSK 800K 2.64496Hz

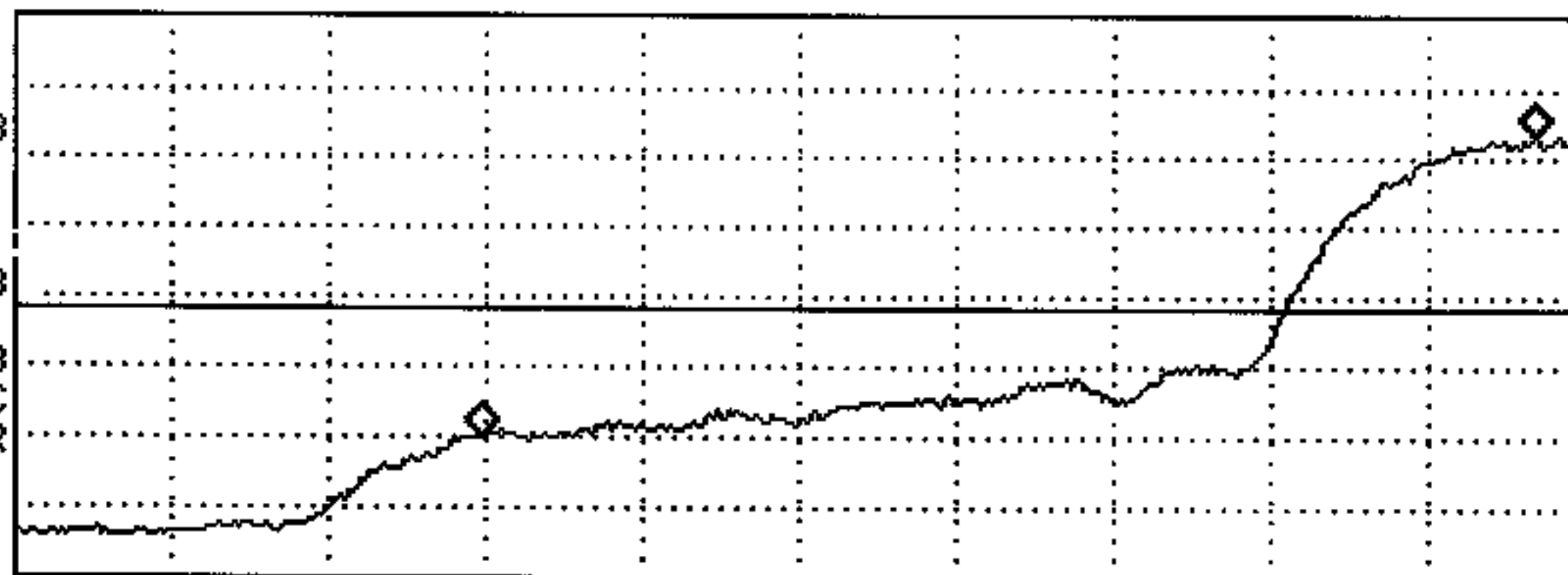
MARKER Δ
-838 kHz
-42.90 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ -838 kHz
-42.90 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 17.1 dBm

LOG
10
dB/
ATN
20 dB
AVG
100
DL
-24.8
dBm
WA SB
SC FC
CORR



CENTER 2.644000 GHz
#IF BW 10 kHz
AVG BW 10 kHz
SPAN 1.250 MHz
SWP 37.5 msec

MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

75

12:26:12 NOV 15, 2001
TSI OUPP1804-2 QPSK 800K 2.64496Hz

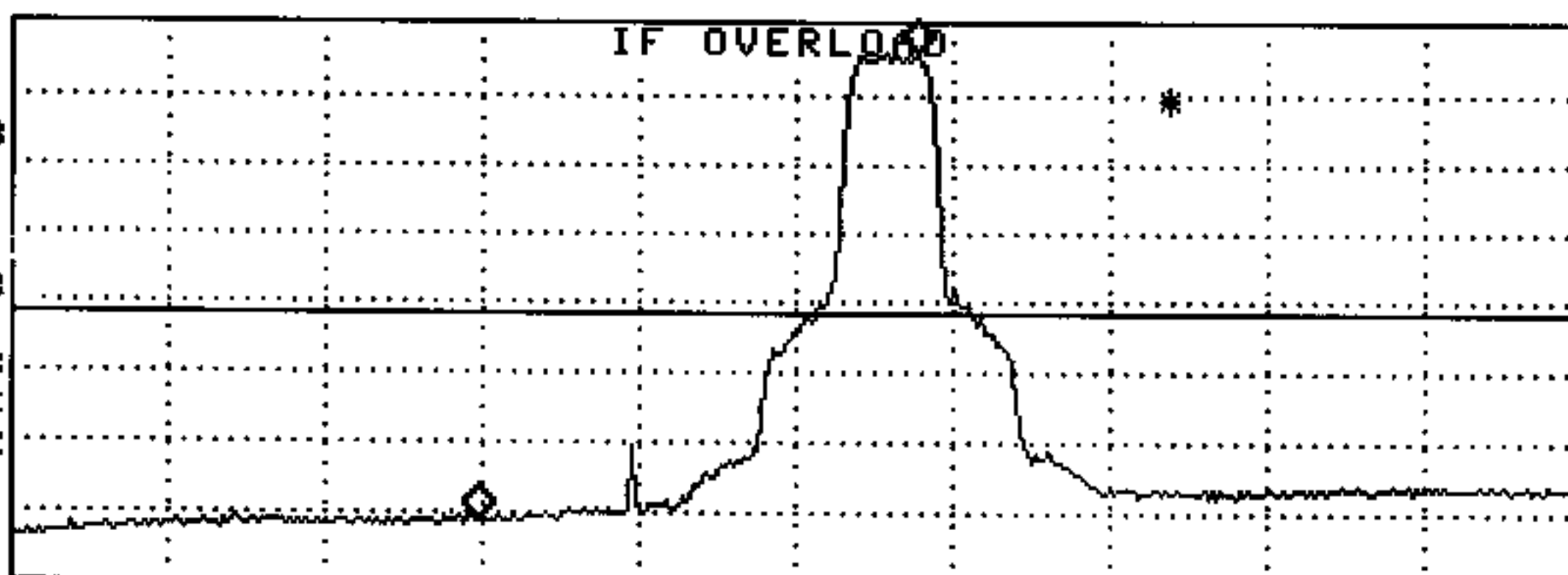
MARKER Δ
-4.20 MHz
-66.96 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ -4.20 MHz
-66.96 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 4.1 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-37.8
dBm
WA SB
SC FC
CORR



CENTER 2.644000 GHz
#IF BW 10 kHz
AVG BW 10 kHz
SPAN 15.00 MHz
SWP 450 msec

MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

76

14:43:22 NOV 15, 2001
TSI OUPP1804-2 QPSK 800K 2.6854GHz

DISPLAY LINE
-26.9 dBm

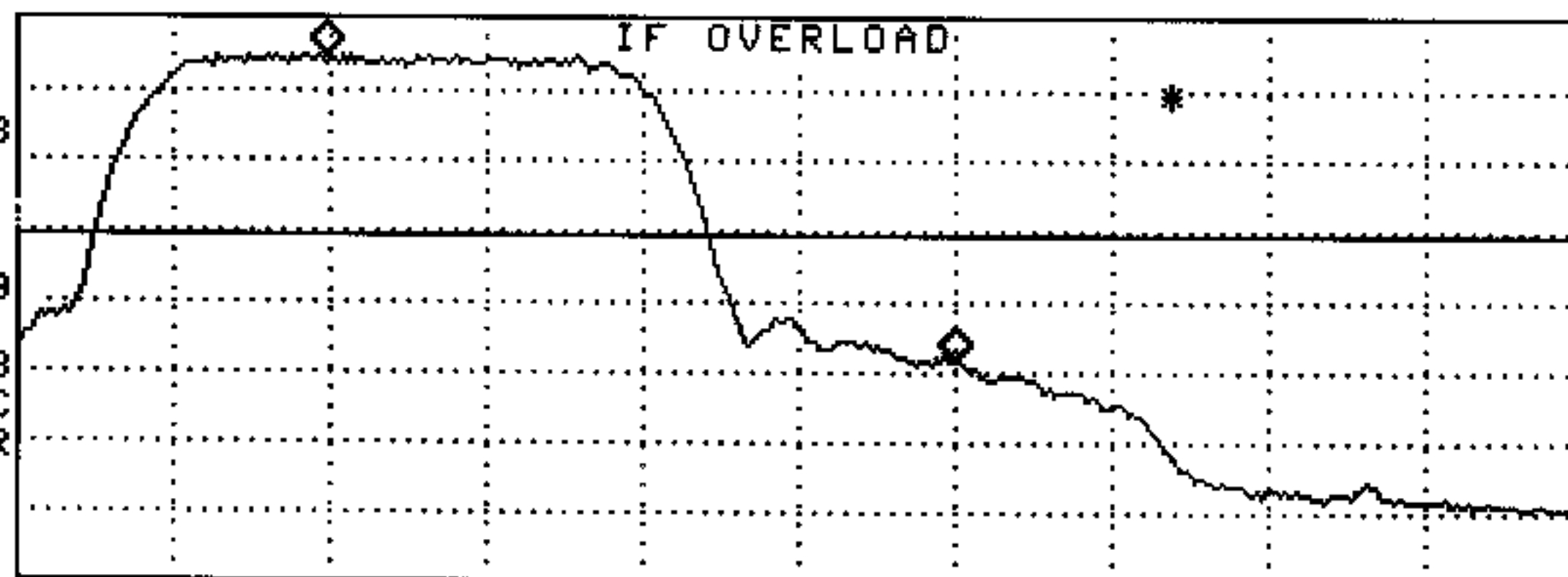
ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRΔ 1.006 MHz
-43.02 dB

HOLD

REF OFFST 12.1 dB
REF 4.1 dBm

DSP LINE
ON OFF

LOG
10
dB/
#ATN
10 dB
AVG
100
DL
-26.9
dBm
WA SB
SC FC
CORR



Change
Title

Limit
Lines

ANALOG+
ON OFF

More
1 of 2

CENTER 2.685000 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 2.500 MHz
SWP 75.0 msec

14:45:37 NOV 15, 2001
TSI OUPP1804-2 QPSK 800K 2.6854GHz

MARKER Δ
3.41 MHz
-65.90 dB

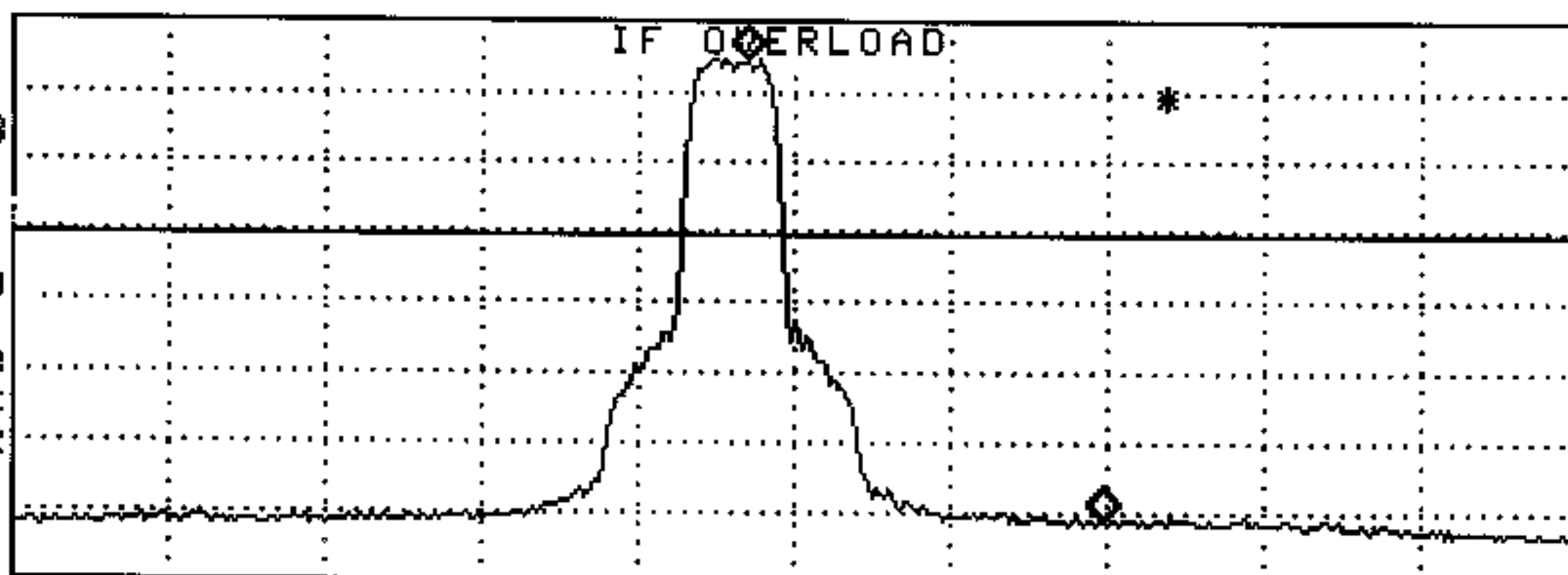
ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRΔ 3.41 MHz
-65.90 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 4.1 dBm

MARKER
Δ

LOG
10
dB/
#ATN
10 dB
AVG
100
DL
-26.9
dBm
WA SB
SC FC
CORR



MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

CENTER 2.685000 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 15.00 MHz
SWP 450 msec

13:05:34 NOV 15, 2001

TSI OUPP1804-2 QPSK 1280K 2.6449GHz

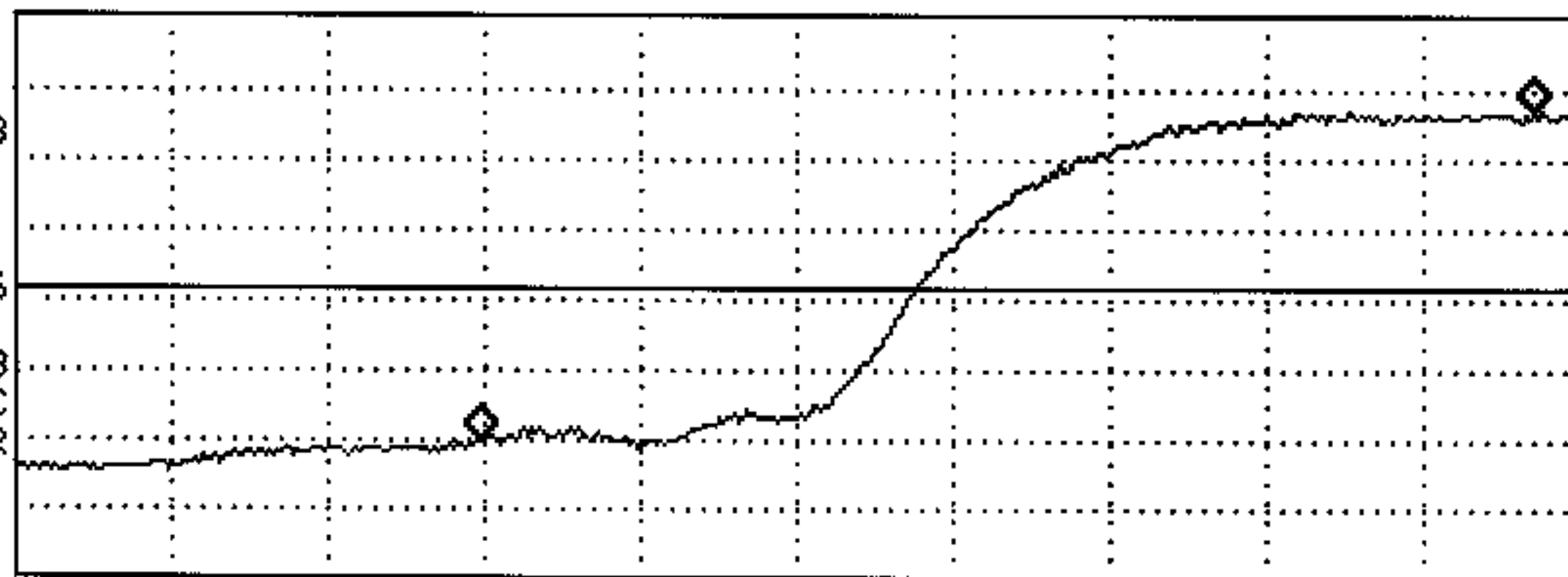
MARKER Δ
-841 kHz
-46.75 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ -841 kHz
-46.75 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF 4.1 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-34.6
dBm
VA SB
SC FC
CORR



MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

CENTER 2.644000 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 1.250 MHz
SWP 37.5 msec

13:10:33 NOV 15, 2001

TSI OUPP1804-2 QPSK 1280K 2.6449GHz

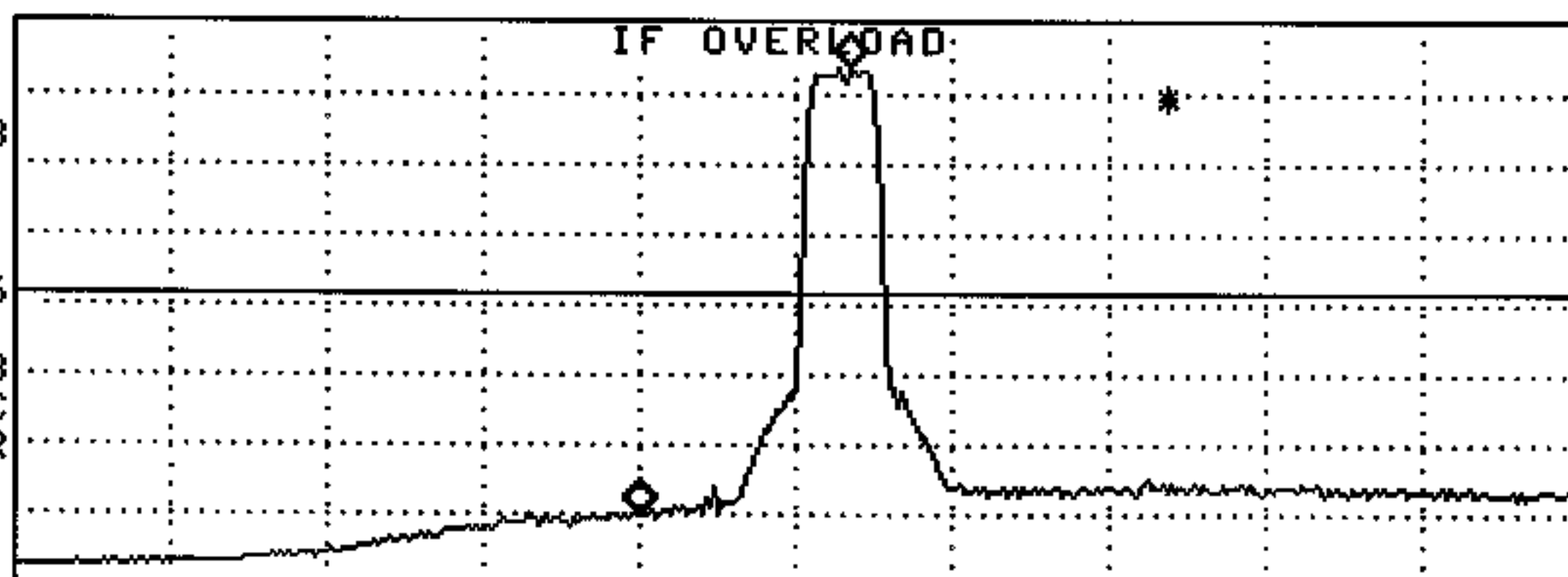
MARKER Δ
-4.05 MHz
-63.55 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ -4.05 MHz
-63.55 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF -2.9 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-41.6
dBm
VA SB
SC FC
CORR



MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

CENTER 2.64400 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 30.00 MHz
SWP 900 msec

13:12:14 NOV 15, 2001

TSI OUPP1804-2 QPSK 1280K 2.6449GHz

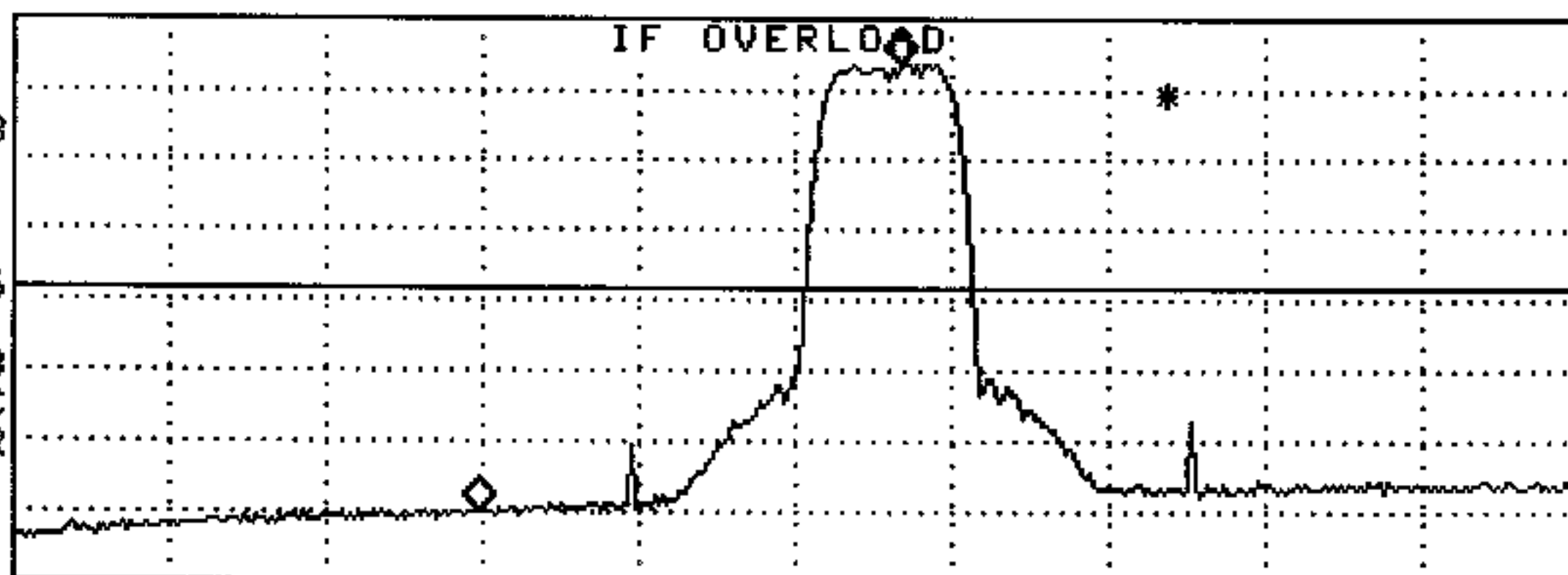
MARKER Δ
-4.05 MHz
-63.47 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKR Δ -4.05 MHz
-63.47 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF -2.9 dBm

LOG
10
dB/
ATN
10 dB
AVG
100
DL
-41.6
dBm
VA SB
SC FC
CORR



MARKER
 Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

CENTER 2.64400 GHz
#IF BW 10 kHz

AVG BW 10 kHz

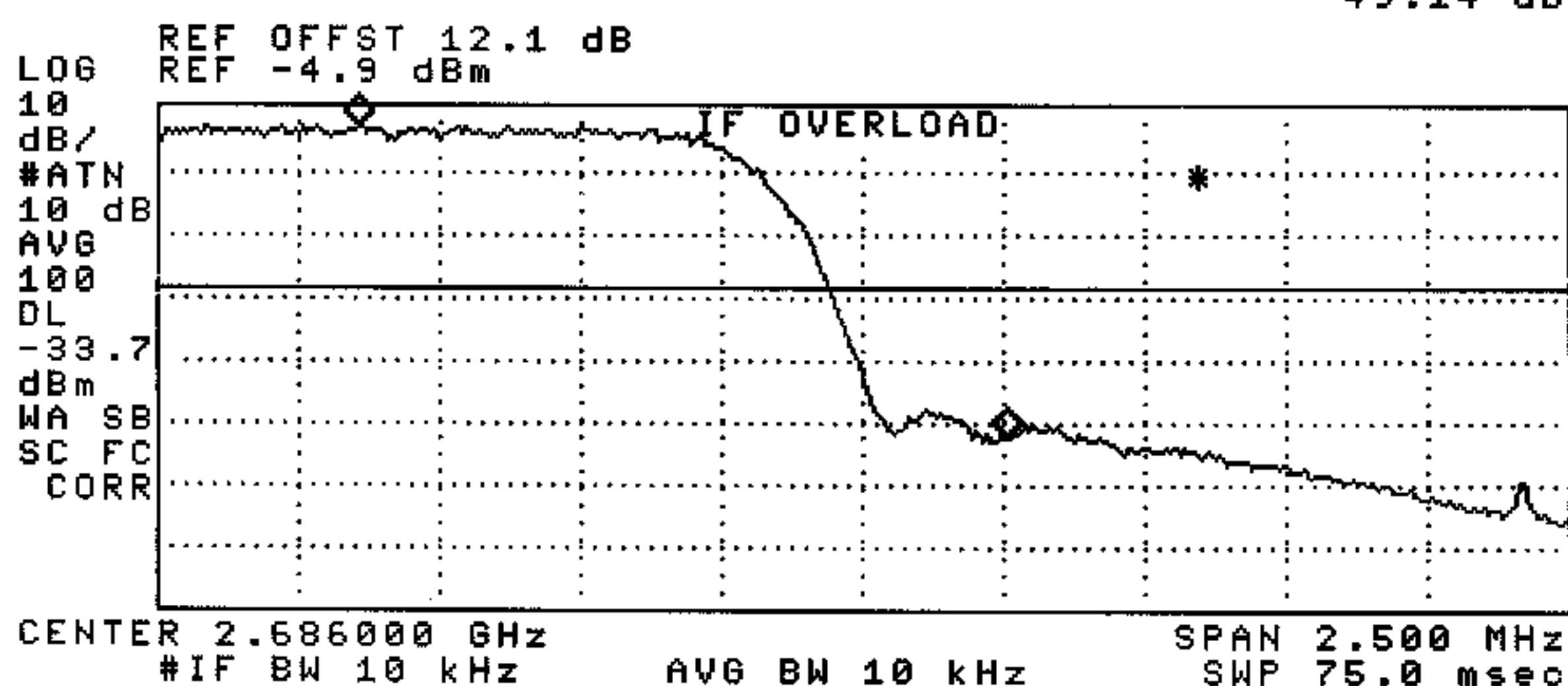
SPAN 15.00 MHz
SWP 450 msec

14:36:17 NOV 15, 2001
TSI OUPP1804-2 QPSK 1280K 2.68526Hz

DISPLAY LINE
-33.7 dBm

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRΔ 1.150 MHz
-49.14 dB

HOLD



DSF LINE
ON OFF

Change
Title

Limit
Lines

ANALOG+
ON OFF

More
1 of 2

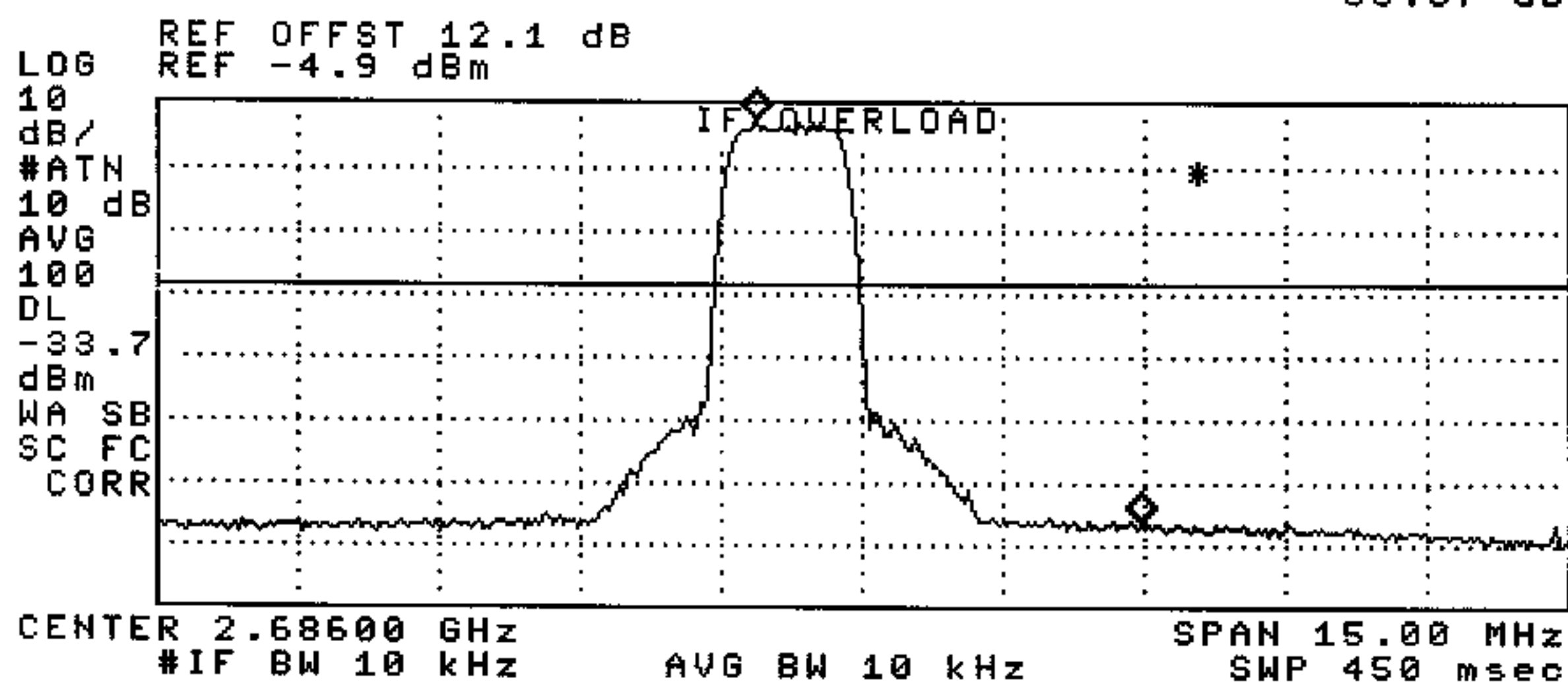
82

14:37:38 NOV 15, 2001
TSI OUPP1804-2 QPSK 1280K 2.68526Hz

MARKER Δ
4.09 MHz
-63.37 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRΔ 4.09 MHz
-63.37 dB

MARKER
NORMAL



MARKER
Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

83

13:41:28 NOV 15, 2001
TSI OUPP1804-2 QPSK 1544K 2.645GHz

DISPLAY LINE
-32.4 dBm

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA -1.463 MHz
-41.35 dB

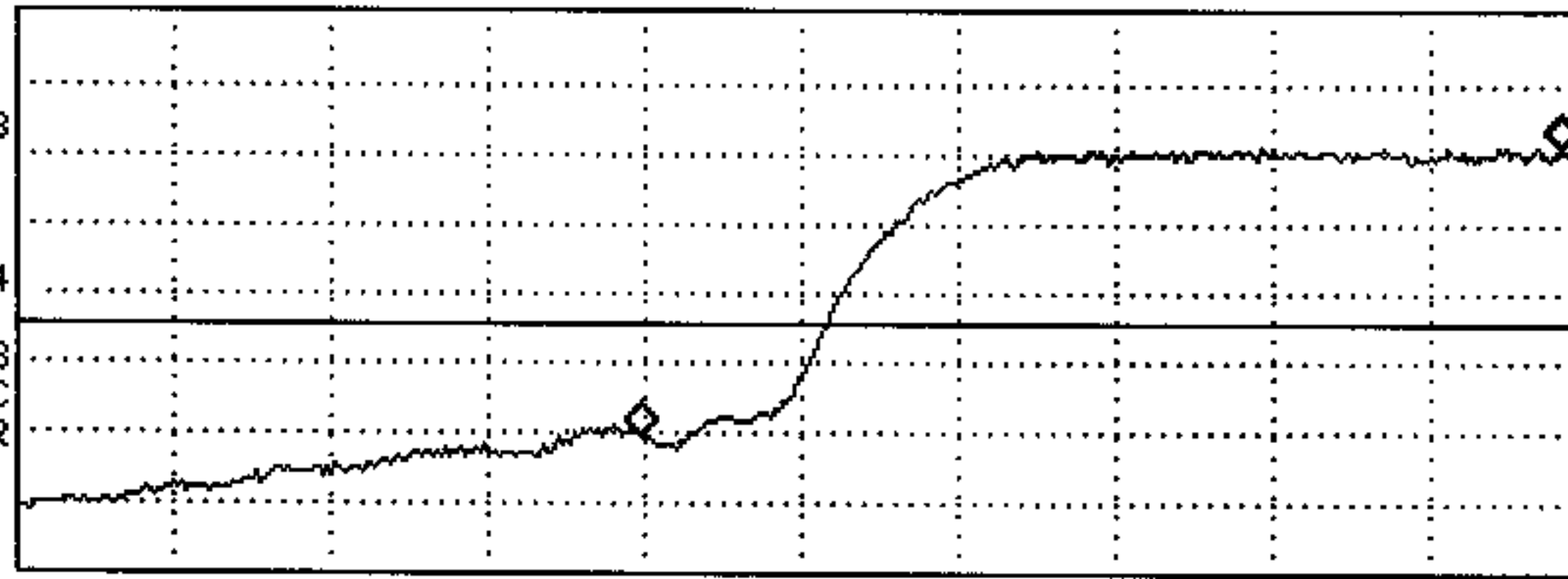
HOLD

LOG REF OFFST 12.1 dB
10 REF 12.1 dBm
dB/

AUTORANGE ON

OSP LINE
ON OFF

ATN
20 dB
AVG
100
DL
-32.4
dBm
WA SB
SC FC
CORR



Change
Title

Limit
Lines

ANALOG+
ON OFF

More
1 of 2

CENTER 2.644000 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 2.500 MHz
SWP 75.0 msec

13:49:01 NOV 15, 2001
TSI OUPP1804-2 QPSK 1544K 2.645GHz

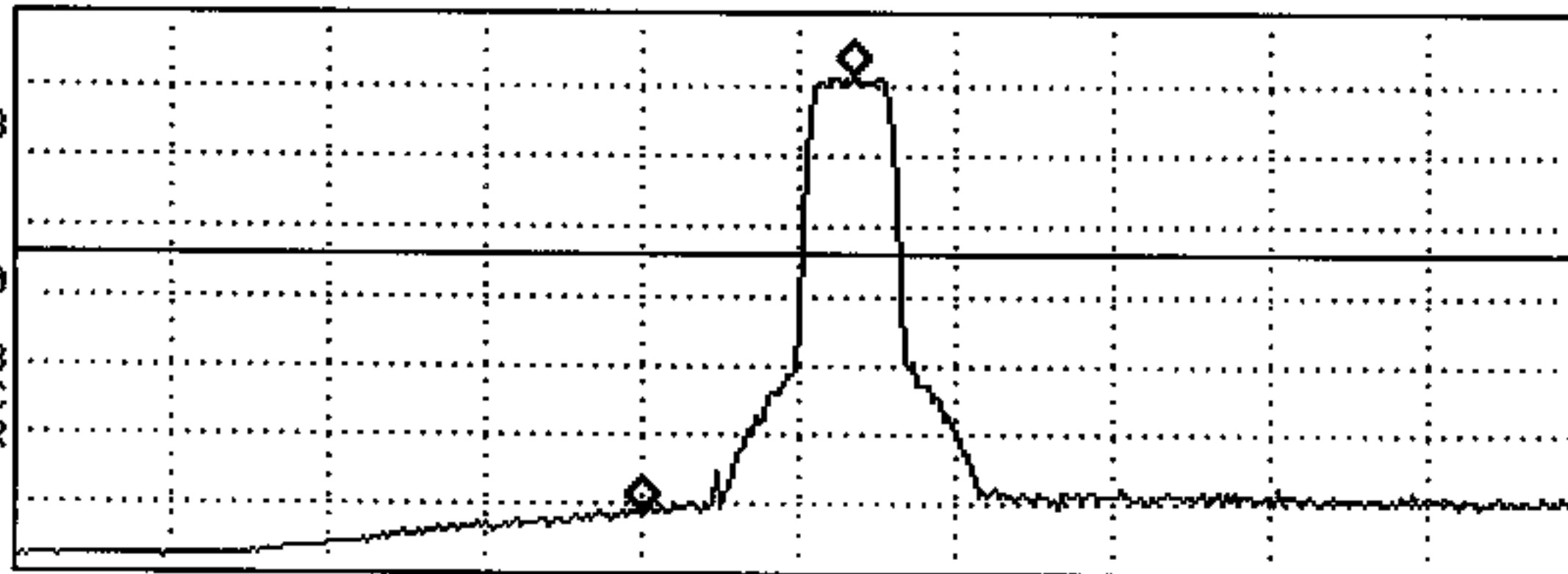
MARKER Δ
-4.05 MHz
-62.46 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA -4.05 MHz
-62.46 dB

MARKER
NORMAL

LOG REF OFFST 12.1 dB
10 REF .1 dBm
dB/

#ATN
10 dB
AVG
100
DL
-34.0
dBm
WA SB
SC FC
CORR



MARKER
Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

CENTER 2.64400 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 30.00 MHz
SWP 900 msec

14:31:43 NOV 15, 2001
TSI OUPP1804-2 QPSK 1544K 2.6848GHz

DISPLAY LINE
-34.8 dBm

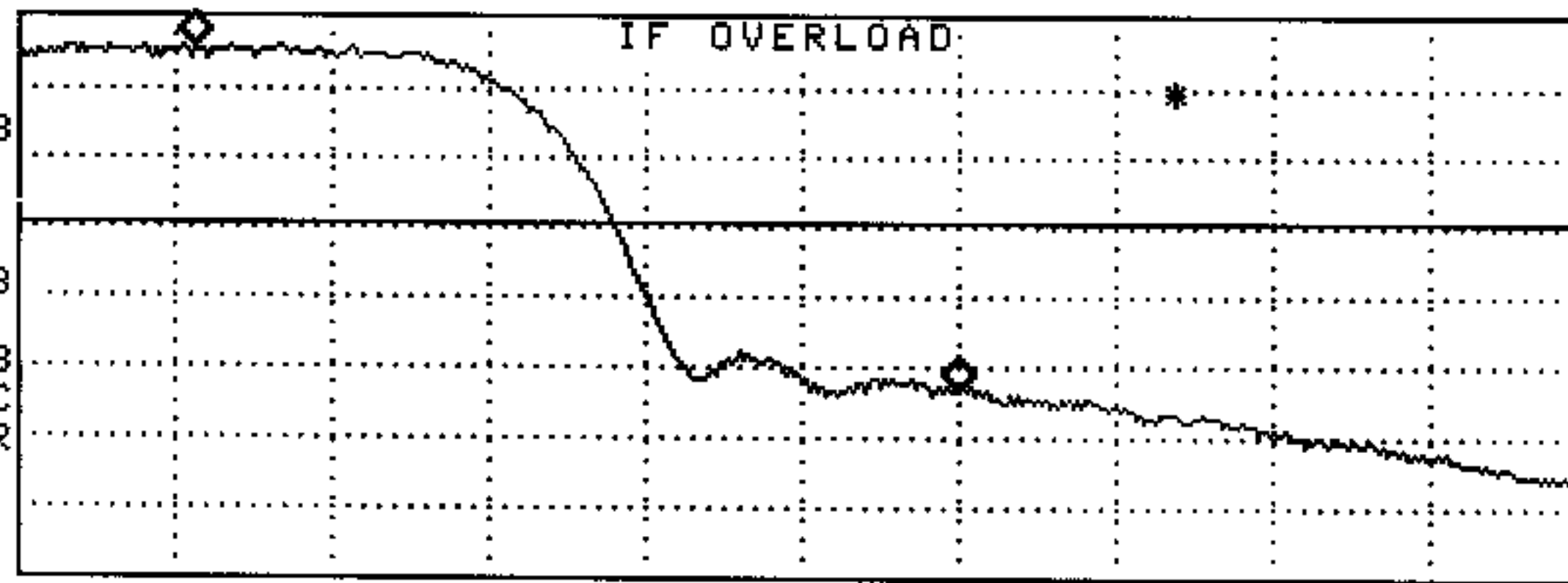
ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA 1.219 MHz
-48.80 dB

HOLD

LOG
10
dB/
#ATN
10 dB
AVG
100
DL
-34.8
dBm
WA SB
SC FC
CORR

REF OFFST 12.1 dB
REF -4.9 dBm

OSF LINE
ON OFF



Change
Title

Limit
Lines

ANALOG+
ON OFF

More
1 of 2

CENTER 2.686000 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 2.500 MHz
SWP 75.0 msec

14:33:19 NOV 15, 2001
TSI OUPP1804-2 QPSK 1544K 2.6848GHz

MARKER Δ
4.61 MHz
-63.19 dB

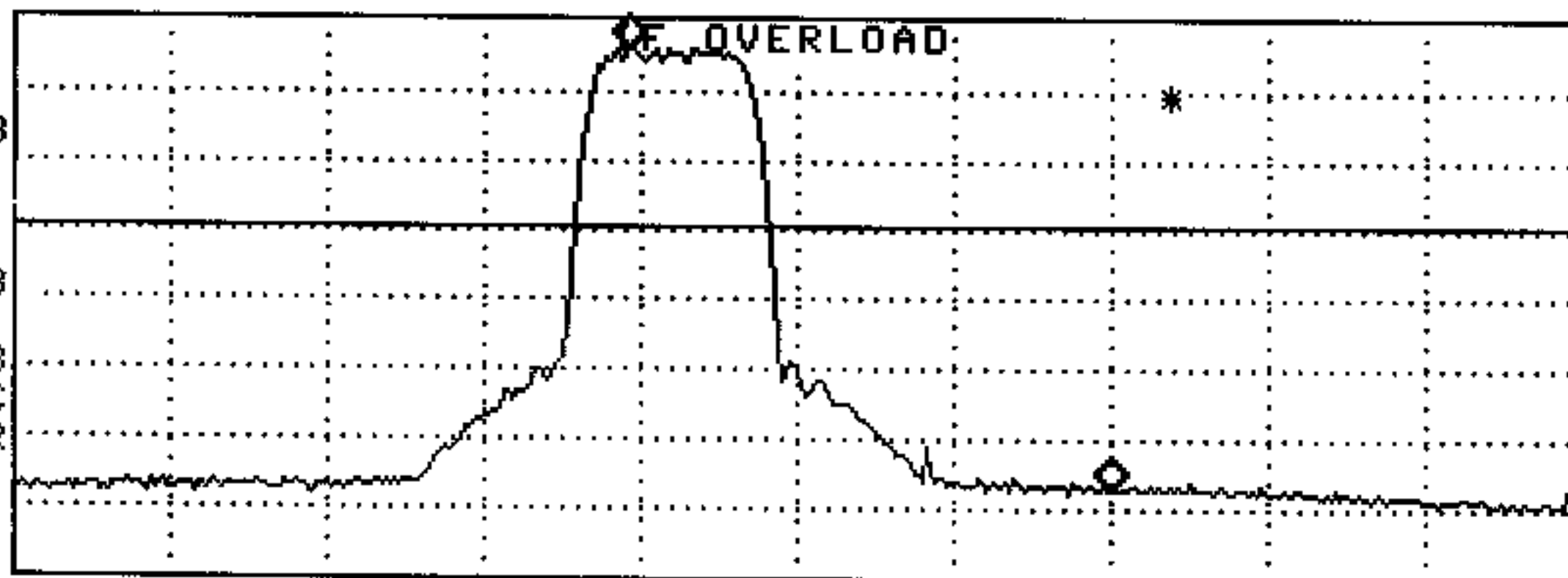
ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA 4.61 MHz
-63.19 dB

MARKER
NORMAL

LOG
10
dB/
#ATN
10 dB
AVG
100
DL
-34.8
dBm
WA SB
SC FC
CORR

REF OFFST 12.1 dB
REF -4.9 dBm

MARKER
Δ



MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

CENTER 2.686000 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 15.00 MHz
SWP 450 msec

13:53:28 NOV 15, 2001
TSI OUPP1804-2 QPSK 2048K 2.64536GHz

DISPLAY LINE
-34.9 dBm

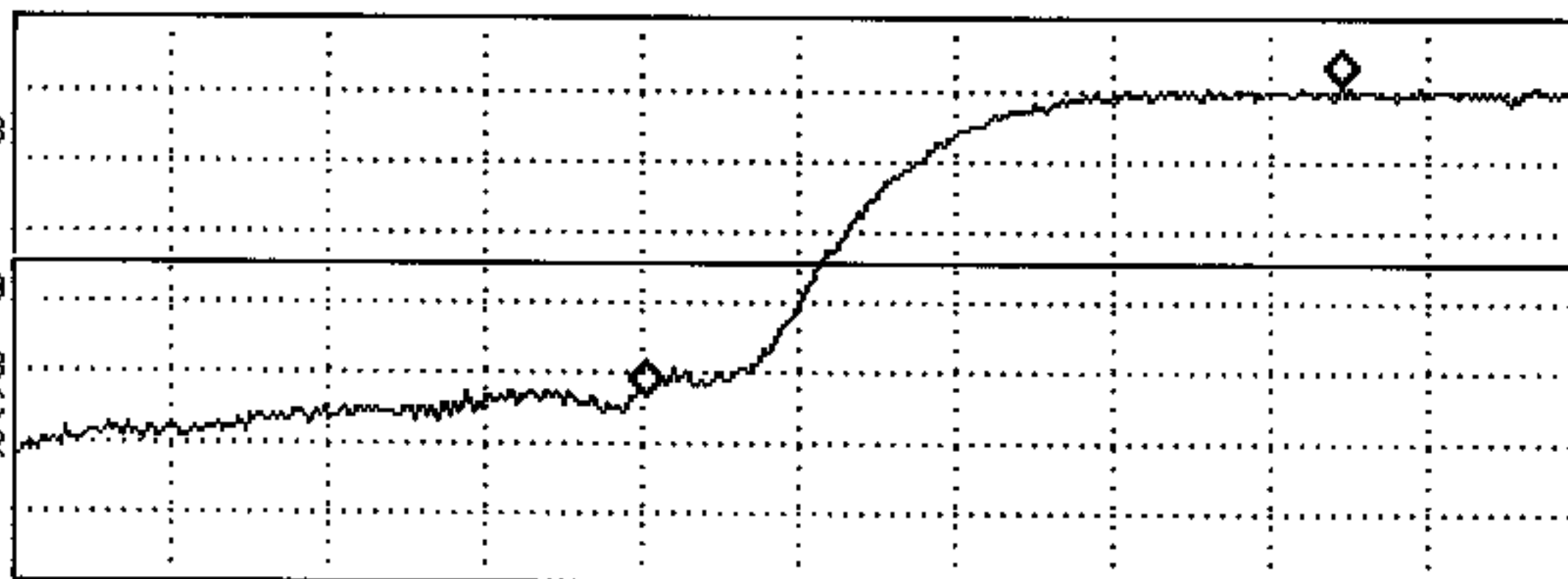
ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA -1.106 MHz
-43.78 dB

HOLD

REF OFFST 12.1 dB
REF .1 dBm

DSP LINE
ON OFF

LOG
10
dB/
#ATN
10 dB
AVG
100
DL
-34.9
dBm
VA SB
SC FC
CORR



Change
Title

Limit
Lines

ANALOG+
ON OFF

More
1 of 2

CENTER 2.644000 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 2.500 MHz
SWP 75.0 msec

13:56:34 NOV 15, 2001
TSI OUPP1804-2 QPSK 2048K 2.64536GHz

DISPLAY LINE
-34.9 dBm

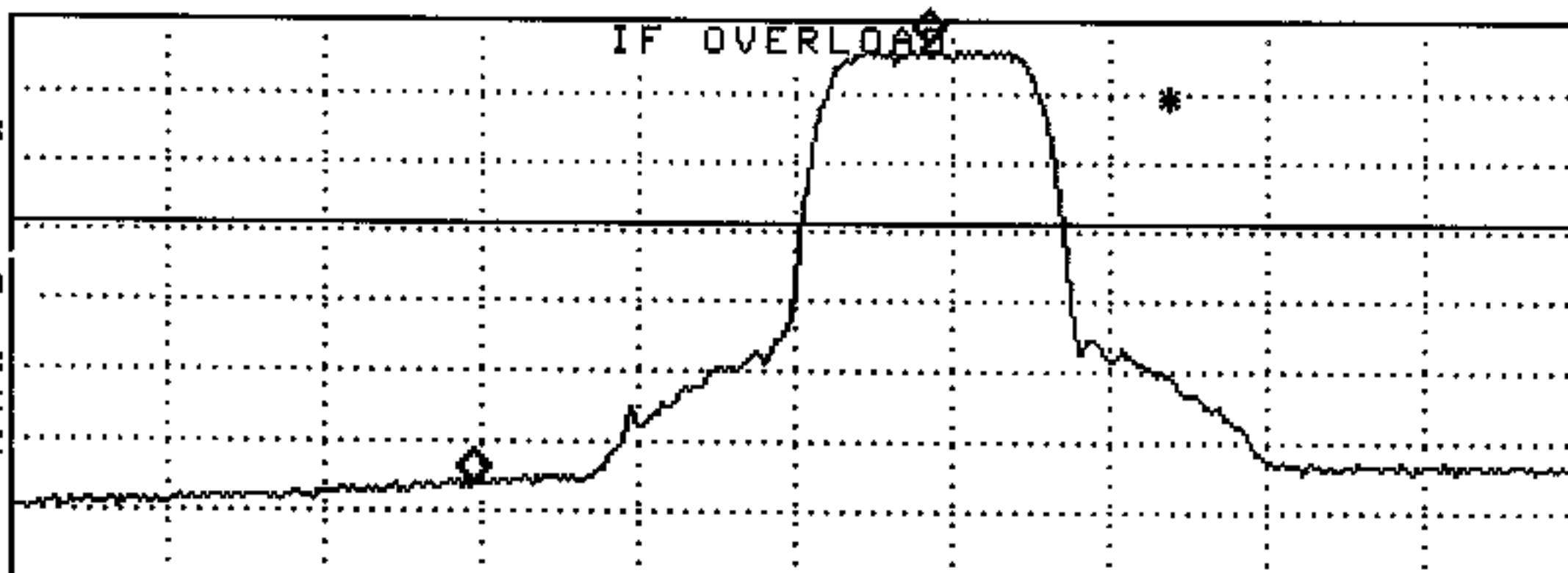
ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA -4.35 MHz
-62.69 dB

HOLD

REF OFFST 12.1 dB
REF -5.9 dBm

DSP LINE
ON OFF

LOG
10
dB/
#ATN
10 dB
AVG
100
DL
-34.9
dBm
VA SB
SC FC
CORR



Change
Title

Limit
Lines

ANALOG+
ON OFF

More
1 of 2

CENTER 2.64400 GHz
#IF BW 10 kHz

AVG BW 10 kHz

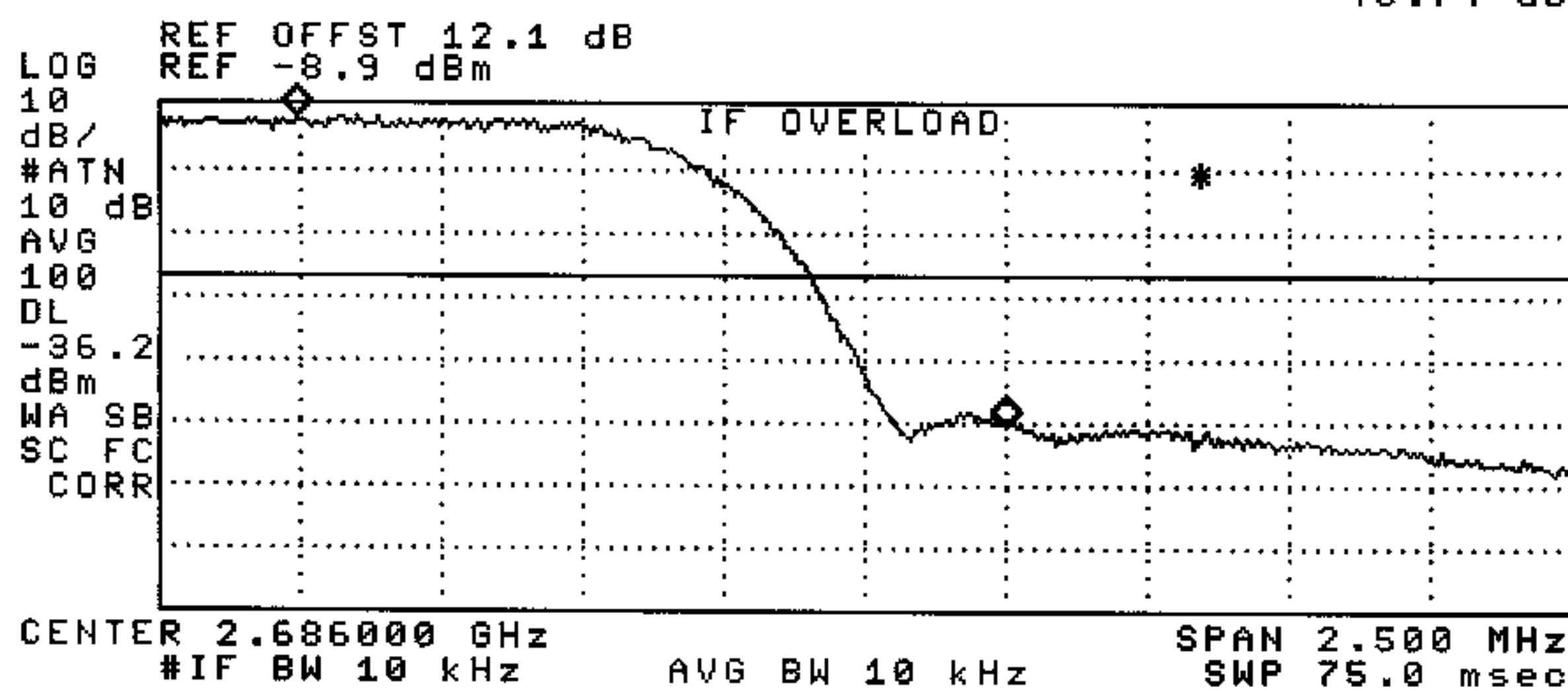
SPAN 15.00 MHz
SWP 450 msec

14:26:35 NOV 15, 2001
TS1 OUPP1804-2 QPSK 2048K 2.6847GHz

DISPLAY LINE
-36.2 dBm

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA 1.256 MHz
-48.74 dB

HOLD



OSP LINE
ON OFF

Change
Title

Limit
Lines

ANALOG+
ON OFF

More
1 of 2

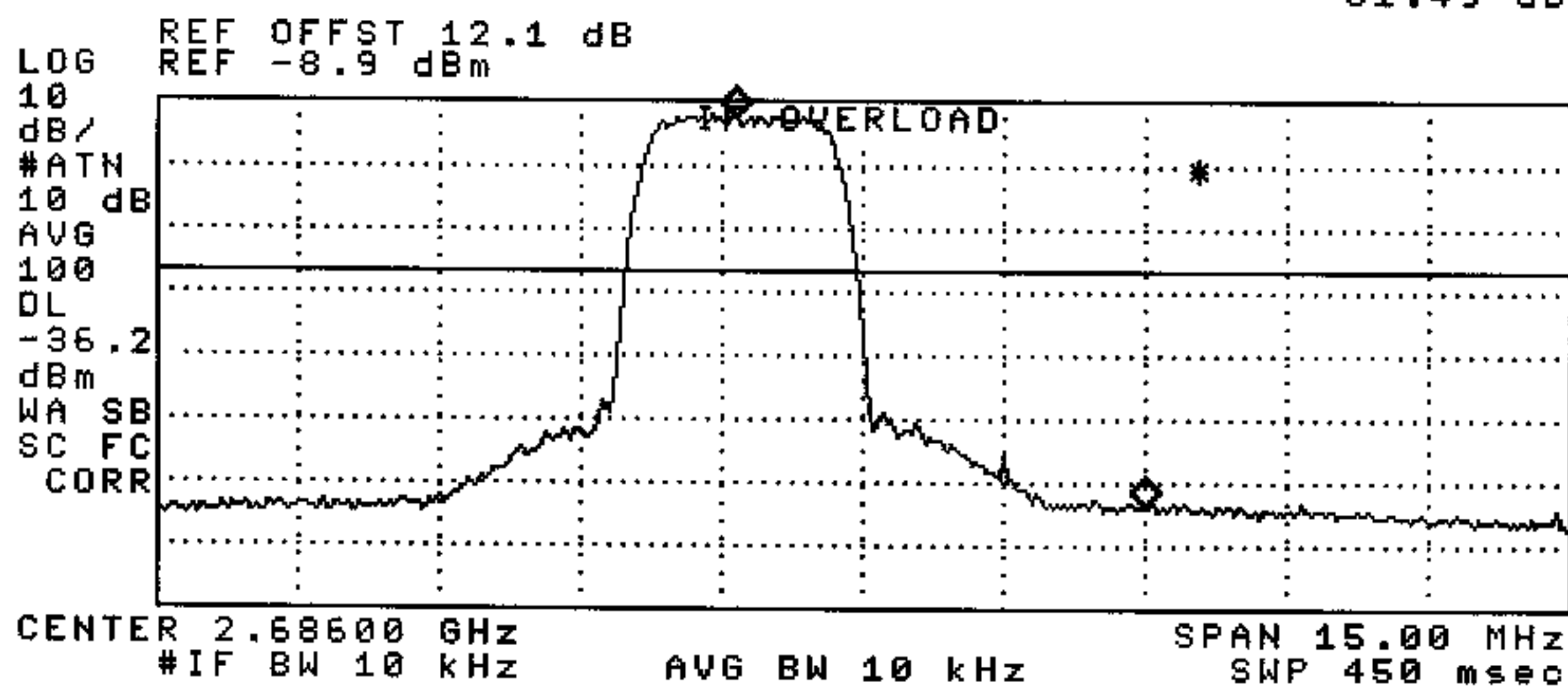
90

14:28:21 NOV 15, 2001
TS1 OUPP1804-2 QPSK 2048K 2.6847GHz

MARKER Δ
4.35 MHz
-61.49 dB

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA 4.35 MHz
-61.49 dB

MARKER
NORMAL



MARKER
Δ

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

91

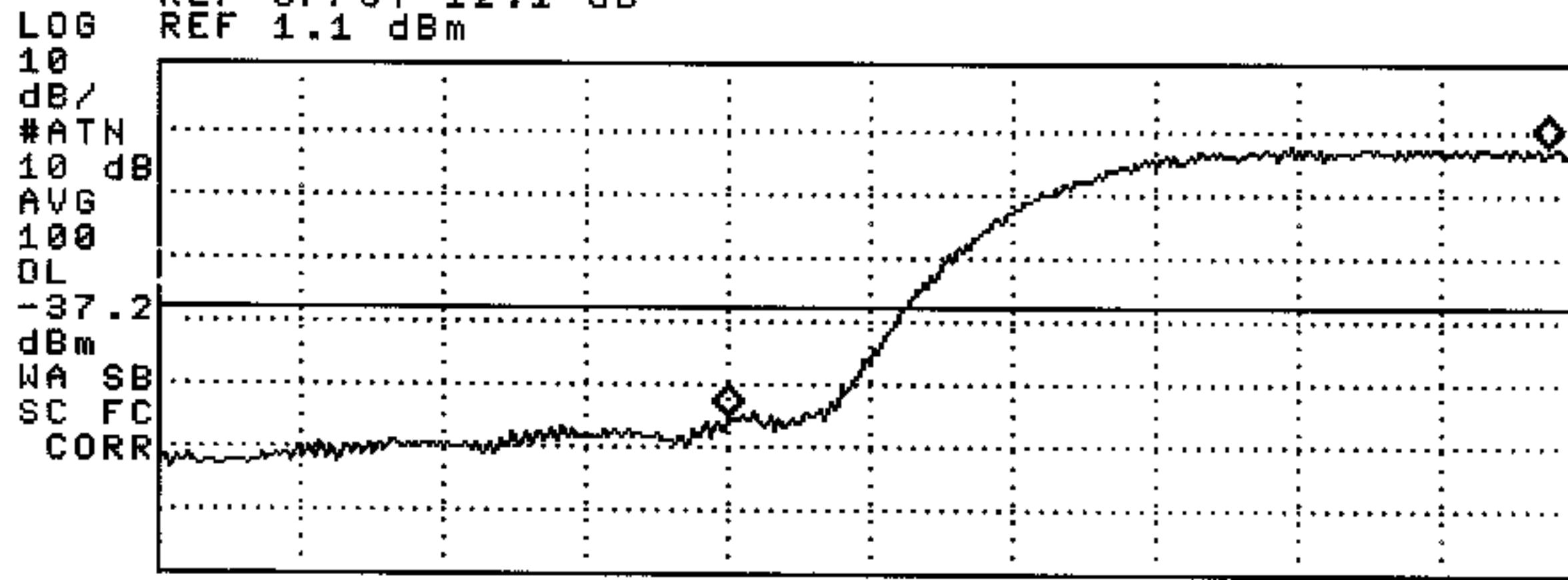
14:00:45 NOV 15, 2001
TSI OUPP1804-2 QPSK 2560K 2.6456GHz

DISPLAY LINE
-37.2 dBm

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA -1.438 MHz
-42.24 dB

HOLD

LOG REF OFFST 12.1 dB
10 REF 1.1 dBm



OSP LINE
ON OFF

Change
Title

Limit
Lines

ANALOG+
ON OFF

More
1 of 2

CENTER 2.644000 GHz
#IF BW 10 kHz
AVG BW 10 kHz
SPAN 2.500 MHz
SWP 75.0 msec

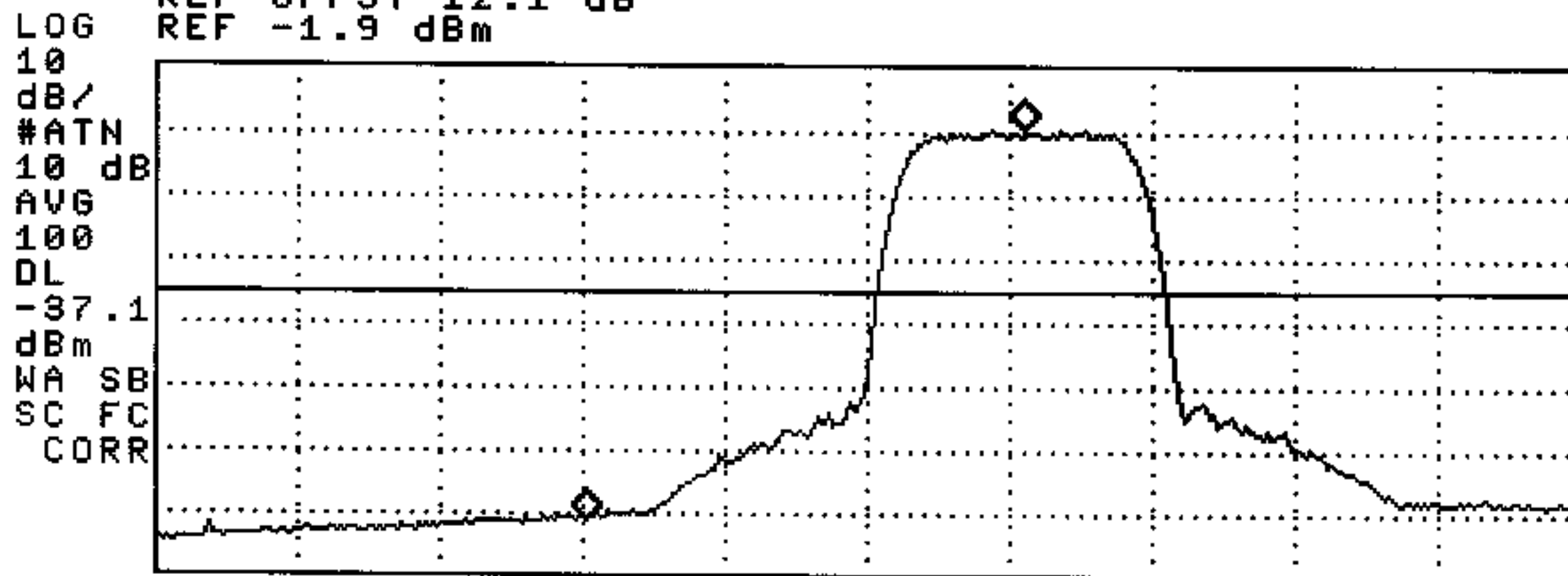
14:13:25 NOV 15, 2001
TSI OUPP1804-2 QPSK 2560K 2.6456GHz

DISPLAY LINE
-37.1 dBm

ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA -4.61 MHz
-61.28 dB

HOLD

LOG REF OFFST 12.1 dB
10 REF -1.9 dBm



OSP LINE
ON OFF

Change
Title

Limit
Lines

ANALOG+
ON OFF

More
1 of 2

CENTER 2.64400 GHz
#IF BW 10 kHz
AVG BW 10 kHz
SPAN 15.00 MHz
SWP 450 msec

14:17:48 NOV 15, 2001
TSI OUPP1804-2 QPSK 2560K 2.6844GHz

DISPLAY LINE
-37.1 dBm

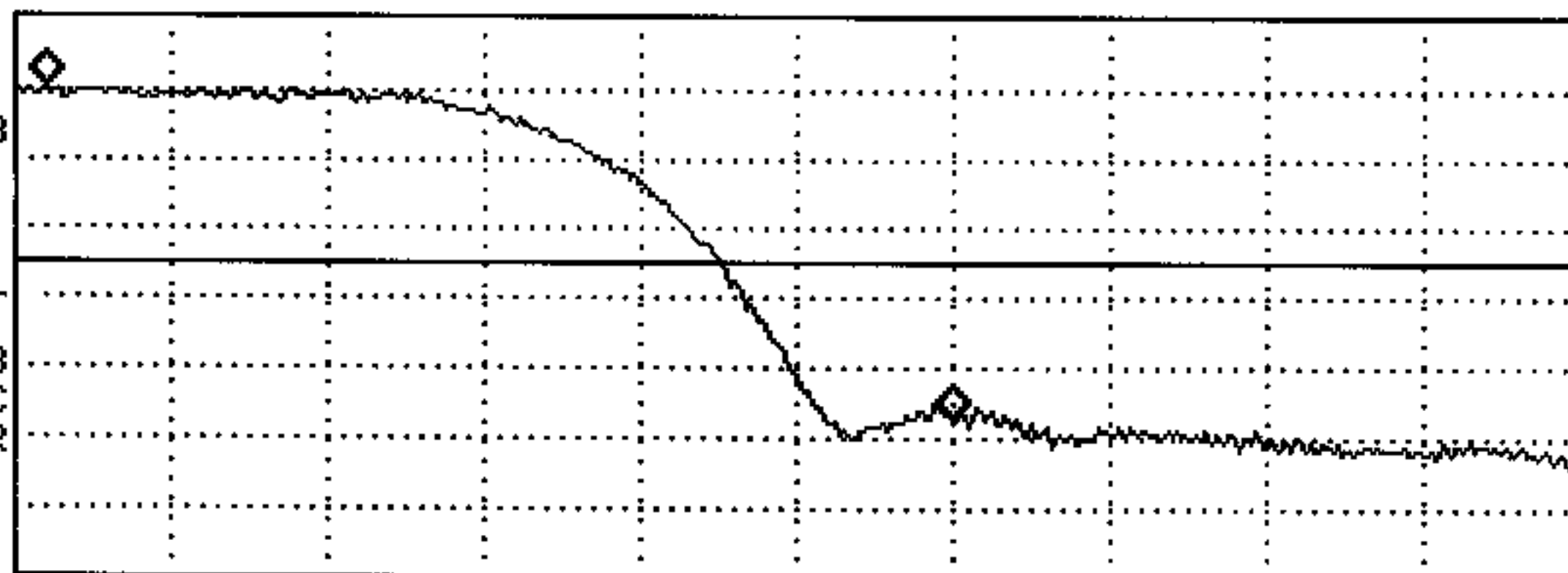
ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA 1.450 MHz
-47.06 dB

HOLD

REF OFFST 12.1 dB
REF -1.9 dBm

DSP LINE
ON OFF

LOG
10
dB/
#ATN
10 dB
AVG
100
DL
-37.1
dBm
WA SB
SC FC
CORR



Change
Title

Limit
Lines

ANALOG+
ON OFF

More
1 of 2

CENTER 2.686000 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 2.500 MHz
SWP 75.0 msec

14:20:34 NOV 15, 2001
TSI OUPP1804-2 QPSK 2560K 2.6844GHz

MARKER Δ
5.21 MHz
-60.76 dB

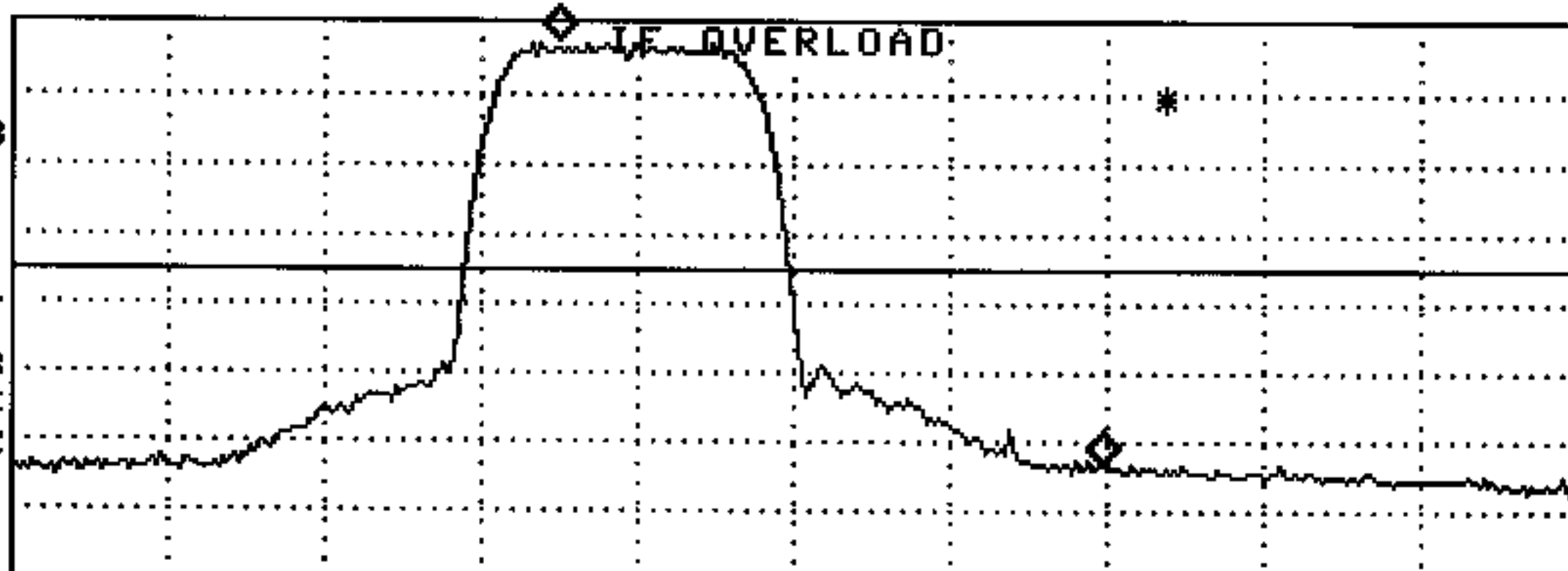
ACTV DET: SMPL
MEAS DET: PEAK QP AVG
MKRA 5.21 MHz
-60.76 dB

MARKER
NORMAL

REF OFFST 12.1 dB
REF -8.9 dBm

MARKER
Δ

LOG
10
dB/
#ATN
10 dB
AVG
100
DL
-44.1
dBm
WA SB
SC FC
CORR



MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

CENTER 2.686000 GHz
#IF BW 10 kHz

AVG BW 10 kHz

SPAN 15.00 MHz
SWP 450 msec