Anderson

IDEM

Project:DK27139-DK 27140 & DK27151-DK27154

Environmental
Health Laboratories
The Nation's Drinking Water Laboratory
110 S. Hill Street
South Bend, IN 46617
219.233.4777
800.832.4345
Fax: 219.233.8207
Division of *MAS* Technology Corporation

BOOK 383

DMA
CONTINUING CALIBRATION CHECK

Lab Name: Environmental Health Laboratories
Contract: BAA 97-044
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
CCC Data File: CCC-100

Lab ID: unknown
Task: SAS
Case: n/a
Method: EHL Amines

Acq. File: BN022701
Data Directory: BN\022701
Instrument ID: GC/MS - BN

All concentrations are in ug/L

Compound	Target Conc	Observed Conc	Percent Recovery	Acceptance Limits	P / F	Q
DMA	100.0	124	124	70 - 130	Pass	

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

MAR 29 2001
Drinking Water Branch

DMA
DATA SHEET

Lab Name: Environmental Health Laboratories
Contract: BAA 97-044
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Matrix Code: WW
Data File/Smpl ID: 576022
Data File/Dupl ID:
Sample Number/Description: DK 27140

Lab ID: unknown
Task: SAS
Case: n/a
Method: EHL Amines

Acq. File: BN022701
Data Directory: BN\022701
Instrument ID: GC/MS - BN
Date Received: 02/17/01
Date Analyzed: 02/27/01

Compound	Sample Concentration	Units
DMA	29	ug/L

Duplicate Concentration	Units	Q

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

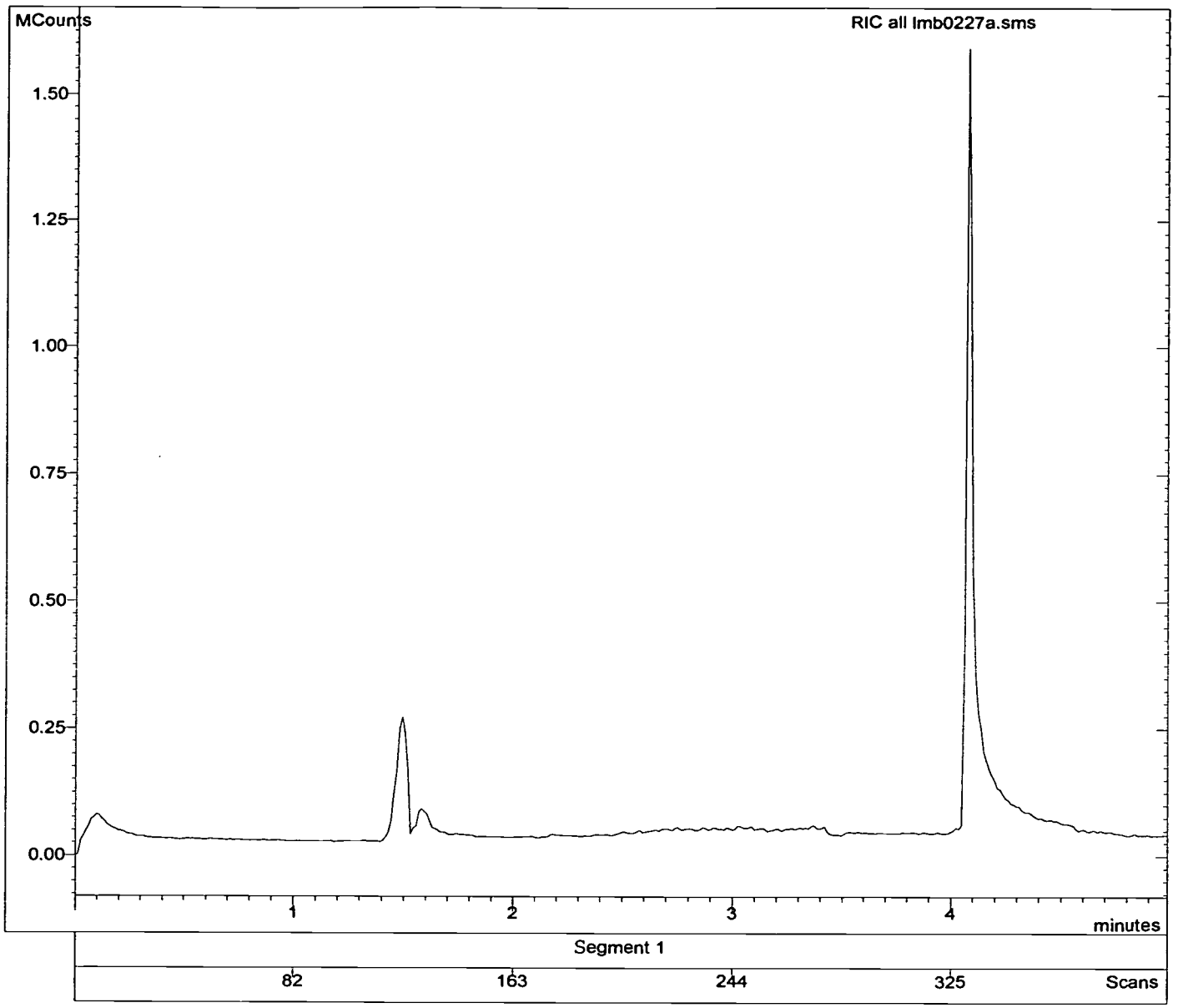
Print Date: 01 Mar 2001 16:11:07

000547

Log of File: LMB0227A.SMS

File: c:\bn\022701a\lmb0227a.sms
Sample: LMB0227A
Scan Range: 1 - 405 Time Range: 0.00 - 4.99 min.

Operator:
Date: 2/27/01 12:51 PM



Acquisition Segment Information

Segment	Time Range (min)	Scan Range	Ionization Mode	Ion Preparation	Scan Channels
1	0.000 to 4.986	1 to 405	EI Auto	None	1

MODULE ATTRIBUTES Printed: 3/1/01 4:11 PM
Module: Saturn 2000.40

Saturn GC/MS Workstation Version 5.51
Module Software Version: FF0E
Module Option Keys: EI SIS MS/MS
Setpoints
Trap Temperature: 200 degrees C
Manifold Temperature: 60 degrees C
Transfer Line Temperature: 200 degrees C
Filament Number: 1
Axial Modulation Voltage: 4.2 volts
Air/Water Check

Log of File: LMB0227A.SMS - Page 2

Last Checked:	12/13/00 9:21 AM
Air Level Test Result:	OK
Water Level Test Result:	OK
Mass 28 Peak Width:	0.8 m/z
Mass 19 to Mass 18 Ratio:	2.1%
Total Ion Count:	755 counts

Integrator Zero Set

Last Executed:	12/26/00 7:44 AM
Integrator Zero Set Result:	OK
DAC Setpoint:	124 DACs
Average Counts:	0.5 counts

Electron Multiplier Set

10^5 Gain Last Executed:	12/26/00 7:50 AM
10^5 Gain Value Set Result:	OK
10^5 Gain Value:	1350 volts
Final Gain Value Last Changed:	12/26/00 7:49 AM
Final Gain Value Set Result:	Marginal
Final Gain Value:	1650 volts

RF Full Scale Adjust

Last Executed:	2/16/01 2:32 PM
RF Full Scale Adjust Result:	OK
DAC Setpoint:	161 DACs
Calibration Ion Used:	614 m/z

Mass Calibration

Last Executed:	2/16/01 2:34 PM
Mass Calibration Method:	FC-43
Mass Calibration Result:	OK

Ion Mass	Apex DAC Location	Ion Intensity
28	173.3	3962
69	430.2	1651
131	820.1	670
264	1658.1	517
414	2604.2	175
464	2919.5	23
502	3158.7	119
614	3865.9	19

Average Calibration Slope:	6.255 DAC/m/z
Standard Deviation:	0.058

Trap Function Calibration

Last Executed:	2/16/01 2:36 PM
Trap Function Calibration Result:	OK
Mass 69 Frequency:	260.500 kHz
Mass 131 Frequency:	257.900 kHz

SIS Calibration

Last Set:	12/14/00 3:50 PM
SIS Calibration Set Result:	Specified By User
Amplitude Adjust Factor:	125%

Calibration Gas Adjust

Last Checked:	2/19/01 12:39 PM
Cal Gas Adjust Result:	OK
Ionization Time:	604 uSeconds
Total Ion Count:	3901 counts

CI Gas Adjust

Last Checked:	No Record
CI Gas Adjust Result:	INCOMPLETE
Reagent:	Methane
Ionization Time:	0 uSeconds
Total Ion Count:	0 counts

RF Tuning Adjust

Last Checked:	1/23/01 3:34 PM
RF Adjust Result:	OK
Highest Count:	851 counts
Average Count:	378 counts

Mass To Start DAC Table [(Mass)DACs]

(0) 0.0 (1) 3.1 (2) 9.3 (3) 15.5 (4) 21.7 (5) 27.8

Log of File: LMB0227A.SMS - Page 3

(6) 34.0	(7) 40.2	(8) 46.4	(9) 52.6	(10) 58.8	(11) 65.0
(12) 71.1	(13) 77.3	(14) 83.5	(15) 89.7	(16) 95.9	(17) 102.1
(18) 108.3	(19) 114.4	(20) 120.6	(21) 126.8	(22) 133.0	(23) 139.2
(24) 145.4	(25) 151.5	(26) 157.7	(27) 163.9	(28) 170.1	(29) 176.4
(30) 182.6	(31) 188.9	(32) 195.2	(33) 201.4	(34) 207.7	(35) 214.0
(36) 220.2	(37) 226.5	(38) 232.8	(39) 239.0	(40) 245.3	(41) 251.6
(42) 257.8	(43) 264.1	(44) 270.4	(45) 276.6	(46) 282.9	(47) 289.2
(48) 295.4	(49) 301.7	(50) 308.0	(51) 314.2	(52) 320.5	(53) 326.8
(54) 333.0	(55) 339.3	(56) 345.6	(57) 351.8	(58) 358.1	(59) 364.3
(60) 370.6	(61) 376.9	(62) 383.1	(63) 389.4	(64) 395.7	(65) 401.9
(66) 408.2	(67) 414.5	(68) 420.7	(69) 427.0	(70) 433.3	(71) 439.6
(72) 445.9	(73) 452.2	(74) 458.5	(75) 464.7	(76) 471.0	(77) 477.3
(78) 483.6	(79) 489.9	(80) 496.2	(81) 502.5	(82) 508.8	(83) 515.1
(84) 521.3	(85) 527.6	(86) 533.9	(87) 540.2	(88) 546.5	(89) 552.8
(90) 559.1	(91) 565.4	(92) 571.7	(93) 577.9	(94) 584.2	(95) 590.5
(96) 596.8	(97) 603.1	(98) 609.4	(99) 615.7	(100) 622.0	(101) 628.3
(102) 634.5	(103) 640.8	(104) 647.1	(105) 653.4	(106) 659.7	(107) 666.0
(108) 672.3	(109) 678.6	(110) 684.8	(111) 691.1	(112) 697.4	(113) 703.7
(114) 710.0	(115) 716.3	(116) 722.6	(117) 728.9	(118) 735.2	(119) 741.4
(120) 747.7	(121) 754.0	(122) 760.3	(123) 766.6	(124) 772.9	(125) 779.2
(126) 785.5	(127) 791.8	(128) 798.0	(129) 804.3	(130) 810.6	(131) 816.9
(132) 823.2	(133) 829.5	(134) 835.8	(135) 842.1	(136) 848.4	(137) 854.7
(138) 861.0	(139) 867.3	(140) 873.6	(141) 879.9	(142) 886.2	(143) 892.5
(144) 898.8	(145) 905.1	(146) 911.4	(147) 917.7	(148) 924.0	(149) 930.3
(150) 936.6	(151) 942.9	(152) 949.2	(153) 955.5	(154) 961.8	(155) 968.1
(156) 974.4	(157) 980.7	(158) 987.0	(159) 993.3	(160) 999.6	(161)1005.9
(162)1012.2	(163)1018.5	(164)1024.8	(165)1031.1	(166)1037.4	(167)1043.7
(168)1050.0	(169)1056.3	(170)1062.6	(171)1068.9	(172)1075.2	(173)1081.6
(174)1087.9	(175)1094.2	(176)1100.5	(177)1106.8	(178)1113.1	(179)1119.4
(180)1125.7	(181)1132.0	(182)1138.3	(183)1144.6	(184)1150.9	(185)1157.2
(186)1163.5	(187)1169.8	(188)1176.1	(189)1182.4	(190)1188.7	(191)1195.0
(192)1201.3	(193)1207.6	(194)1213.9	(195)1220.2	(196)1226.5	(197)1232.8
(198)1239.1	(199)1245.4	(200)1251.7	(201)1258.0	(202)1264.3	(203)1270.6
(204)1276.9	(205)1283.2	(206)1289.5	(207)1295.8	(208)1302.1	(209)1308.4
(210)1314.7	(211)1321.0	(212)1327.3	(213)1333.6	(214)1339.9	(215)1346.2
(216)1352.5	(217)1358.8	(218)1365.1	(219)1371.4	(220)1377.7	(221)1384.0
(222)1390.3	(223)1396.6	(224)1402.9	(225)1409.2	(226)1415.5	(227)1421.8
(228)1428.1	(229)1434.4	(230)1440.7	(231)1447.0	(232)1453.3	(233)1459.6
(234)1465.9	(235)1472.2	(236)1478.5	(237)1484.8	(238)1491.1	(239)1497.4
(240)1503.7	(241)1510.0	(242)1516.3	(243)1522.6	(244)1528.9	(245)1535.2
(246)1541.5	(247)1547.8	(248)1554.1	(249)1560.4	(250)1566.7	(251)1573.0
(252)1579.3	(253)1585.6	(254)1591.9	(255)1598.2	(256)1604.5	(257)1610.8
(258)1617.1	(259)1623.4	(260)1629.7	(261)1636.0	(262)1642.3	(263)1648.6
(264)1654.9	(265)1661.2	(266)1667.5	(267)1673.8	(268)1680.2	(269)1686.5
(270)1692.8	(271)1699.1	(272)1705.4	(273)1711.7	(274)1718.0	(275)1724.3
(276)1730.6	(277)1736.9	(278)1743.2	(279)1749.5	(280)1755.8	(281)1762.2
(282)1768.5	(283)1774.8	(284)1781.1	(285)1787.4	(286)1793.7	(287)1800.0
(288)1806.3	(289)1812.6	(290)1818.9	(291)1825.2	(292)1831.5	(293)1837.8
(294)1844.2	(295)1850.5	(296)1856.8	(297)1863.1	(298)1869.4	(299)1875.7
(300)1882.0	(301)1888.3	(302)1894.6	(303)1900.9	(304)1907.2	(305)1913.5
(306)1919.8	(307)1926.1	(308)1932.5	(309)1938.8	(310)1945.1	(311)1951.4
(312)1957.7	(313)1964.0	(314)1970.3	(315)1976.6	(316)1982.9	(317)1989.2
(318)1995.5	(319)2001.8	(320)2008.1	(321)2014.5	(322)2020.8	(323)2027.1
(324)2033.4	(325)2039.7	(326)2046.0	(327)2052.3	(328)2058.6	(329)2064.9
(330)2071.2	(331)2077.5	(332)2083.8	(333)2090.1	(334)2096.4	(335)2102.8
(336)2109.1	(337)2115.4	(338)2121.7	(339)2128.0	(340)2134.3	(341)2140.6
(342)2146.9	(343)2153.2	(344)2159.5	(345)2165.8	(346)2172.1	(347)2178.4
(348)2184.8	(349)2191.1	(350)2197.4	(351)2203.7	(352)2210.0	(353)2216.3
(354)2222.6	(355)2228.9	(356)2235.2	(357)2241.5	(358)2247.8	(359)2254.1
(360)2260.4	(361)2266.7	(362)2273.1	(363)2279.4	(364)2285.7	(365)2292.0
(366)2298.3	(367)2304.6	(368)2310.9	(369)2317.2	(370)2323.5	(371)2329.8
(372)2336.1	(373)2342.4	(374)2348.7	(375)2355.1	(376)2361.4	(377)2367.7
(378)2374.0	(379)2380.3	(380)2386.6	(381)2392.9	(382)2399.2	(383)2405.5
(384)2411.8	(385)2418.1	(386)2424.4	(387)2430.7	(388)2437.0	(389)2443.4
(390)2449.7	(391)2456.0	(392)2462.3	(393)2468.6	(394)2474.9	(395)2481.2
(396)2487.5	(397)2493.8	(398)2500.1	(399)2506.4	(400)2512.7	(401)2519.0
(402)2525.4	(403)2531.7	(404)2538.0	(405)2544.3	(406)2550.6	(407)2556.9

Log of File: LMB0227A.SMS - Page 4

(408)2563.2	(409)2569.5	(410)2575.8	(411)2582.1	(412)2588.4	(413)2594.7
(414)2601.0	(415)2607.3	(416)2613.7	(417)2620.0	(418)2626.3	(419)2632.6
(420)2638.9	(421)2645.2	(422)2651.5	(423)2657.8	(424)2664.1	(425)2670.4
(426)2676.7	(427)2683.0	(428)2689.3	(429)2695.6	(430)2701.9	(431)2708.2
(432)2714.6	(433)2720.9	(434)2727.2	(435)2733.5	(436)2739.8	(437)2746.1
(438)2752.4	(439)2758.7	(440)2765.0	(441)2771.3	(442)2777.6	(443)2783.9
(444)2790.2	(445)2796.5	(446)2802.8	(447)2809.1	(448)2815.4	(449)2821.8
(450)2828.1	(451)2834.4	(452)2840.7	(453)2847.0	(454)2853.3	(455)2859.6
(456)2865.9	(457)2872.2	(458)2878.5	(459)2884.8	(460)2891.1	(461)2897.4
(462)2903.7	(463)2910.0	(464)2916.3	(465)2922.6	(466)2928.9	(467)2935.2
(468)2941.5	(469)2947.8	(470)2954.1	(471)2960.4	(472)2966.7	(473)2973.0
(474)2979.3	(475)2985.6	(476)2991.9	(477)2998.2	(478)3004.5	(479)3010.8
(480)3017.1	(481)3023.4	(482)3029.7	(483)3035.9	(484)3042.2	(485)3048.5
(486)3054.8	(487)3061.1	(488)3067.4	(489)3073.7	(490)3080.0	(491)3086.3
(492)3092.6	(493)3098.9	(494)3105.2	(495)3111.5	(496)3117.8	(497)3124.1
(498)3130.4	(499)3136.7	(500)3143.0	(501)3149.3	(502)3155.5	(503)3161.9
(504)3168.2	(505)3174.5	(506)3180.8	(507)3187.1	(508)3193.4	(509)3199.8
(510)3206.1	(511)3212.4	(512)3218.7	(513)3225.0	(514)3231.3	(515)3237.6
(516)3244.0	(517)3250.3	(518)3256.6	(519)3262.9	(520)3269.2	(521)3275.5
(522)3281.8	(523)3288.2	(524)3294.5	(525)3300.8	(526)3307.1	(527)3313.4
(528)3319.7	(529)3326.0	(530)3332.4	(531)3338.7	(532)3345.0	(533)3351.3
(534)3357.6	(535)3363.9	(536)3370.2	(537)3376.6	(538)3382.9	(539)3389.2
(540)3395.5	(541)3401.8	(542)3408.1	(543)3414.4	(544)3420.8	(545)3427.1
(546)3433.4	(547)3439.7	(548)3446.0	(549)3452.3	(550)3458.6	(551)3465.0
(552)3471.3	(553)3477.6	(554)3483.9	(555)3490.2	(556)3496.5	(557)3502.8
(558)3509.2	(559)3515.5	(560)3521.8	(561)3528.1	(562)3534.4	(563)3540.7
(564)3547.0	(565)3553.4	(566)3559.7	(567)3566.0	(568)3572.3	(569)3578.6
(570)3584.9	(571)3591.2	(572)3597.6	(573)3603.9	(574)3610.2	(575)3616.5
(576)3622.8	(577)3629.1	(578)3635.4	(579)3641.8	(580)3648.1	(581)3654.4
(582)3660.7	(583)3667.0	(584)3673.3	(585)3679.6	(586)3686.0	(587)3692.3
(588)3698.6	(589)3704.9	(590)3711.2	(591)3717.5	(592)3723.8	(593)3730.2
(594)3736.5	(595)3742.8	(596)3749.1	(597)3755.4	(598)3761.7	(599)3768.0
(600)3774.4	(601)3780.7	(602)3787.0	(603)3793.3	(604)3799.6	(605)3805.9
(606)3812.2	(607)3818.6	(608)3824.9	(609)3831.2	(610)3837.5	(611)3843.8
(612)3850.1	(613)3856.4	(614)3862.8	(615)3869.0	(616)3875.3	(617)3881.6
(618)3887.9	(619)3894.1	(620)3900.4	(621)3906.7	(622)3913.0	(623)3919.3
(624)3925.5	(625)3931.8	(626)3938.1	(627)3944.4	(628)3950.7	(629)3956.9
(630)3963.2	(631)3969.5	(632)3975.8	(633)3982.0	(634)3988.3	(635)3994.6
(636)4000.9	(637)4007.2	(638)4013.4	(639)4019.7	(640)4026.0	(641)4032.3
(642)4038.5	(643)4044.8	(644)4051.1	(645)4057.4	(646)4063.7	(647)4069.9
(648)4076.2	(649)4082.5	(650)4088.8			

ACQUISITION EVENT LOG Printed: 03/01/01 04:11:04PM
Module: Saturn 2000.40

Pre-Acquisition Verification Tests

Pump Test:	Passed
Gate Off Voltage Test:	Passed
Gate On Voltage Test:	Passed
RF Voltage Test:	Passed
Axial Modulation Amplitude Test:	Passed
Trap Temperature Test:	Passed
Manifold Temperature Test:	Passed
Transfer Line Temperature Test:	Passed
Multiplier Voltage Test:	Passed
Filament Bias Voltage Test:	Passed
Selected Trap Filament Test:	Passed

Ion Gauge

Ion Gauge Filament Number:	1
Ion Gauge Reading:	14.1 uTorr

Air Flow Sampling

Number of Readings Taken:	None

Acquisition

Actual End Time:	5.00 minutes

Log of File: LMB0227A.SMS - Page 5

Segment Number 1:
Description: DMA

Last Modified:	2/27/01 8:24 AM
Emission Current:	20 microamps
Mass Defect:	0 mmu/100u
Count Threshold:	1 counts
Multiplier Offset:	150 volts
Cal Gas:	OFF
Scan Time:	0.750 seconds
Segment Start Time:	0.00 minutes
Segment End Time:	5.00 minutes
Segment Low Mass:	39 m/z
Segment High Mass:	100 m/z
Ionization Mode:	EI AGC
Ion Preparation Technique:	NONE

No Ion Preparation.

EI-Auto Mode:

Maximum Ionization Time: 25000 microseconds

	Mass Range	Ion. Storage Level	Ion. Time Factor
Scan Segment 1:	10 to 99	35.0 m/z	100%
Scan Segment 2:	100 to 249	35.0 m/z	100%
Scan Segment 3:	250 to 399	35.0 m/z	100%
Scan Segment 4:	400 to 650	35.0 m/z	100%

Target TIC:	10000 counts
Prescan Ionization Time:	100 microseconds
Background Mass:	38 m/z
RF Dump Value:	650.0 m/z

==========
Module 44 Information
==========
Module
Description = ?
Serial Number = ?
Date Installed = ?
Date Last Serviced = ?

****
3800 GC
****
Module Address: 44

Valve Table

Front Injector Type 1079

Oven Power:	On
Coolant:	On
Enable Coolant at:	250 C
Coolant Timeout:	20.00 min

Temp (C)	Rate (C/min)	Hold (min)	Total (min)
230	0	15.00	15.00
270	200	10.00	25.20

Log of File: LMB0227A.SMS - Page 6

Time (min)	Split State	Split Ratio
Initial	On	20
0.01	Off	Off
2.00	On	120

Front Injector EFC Type 1

Constant Column Flow: 1.0 ml/min
Pressure Pulse: none

Column Oven

Coolant: Off
Enable Coolant at: 50 C
Coolant Timeout: 20.00 min
Stabilization Time: 0.10 min

Temp (C)	Rate (C/min)	Hold (min)	Total (min)
50	0.0	1.00	1.00
90	10.0	1.00	6.00
260	15.0	8.00	25.33

Front ECD Detector

Oven Power: On
Temperature: 300 C
Electronics: On
Time Constant: Fast
Cell Current: CAP
Contact Potential: 50 mV

Time (min)	Range	Autozero
Initial	10	yes

Front Type 13 Detector EFC

Make up Flow: 15 ml/min

Output Port A

Time (min)	Signal Source	Attenuation
Initial	Front	1

Output Port B

Time (min)	Signal Source	Attenuation
Initial	Front	1

Output Port C

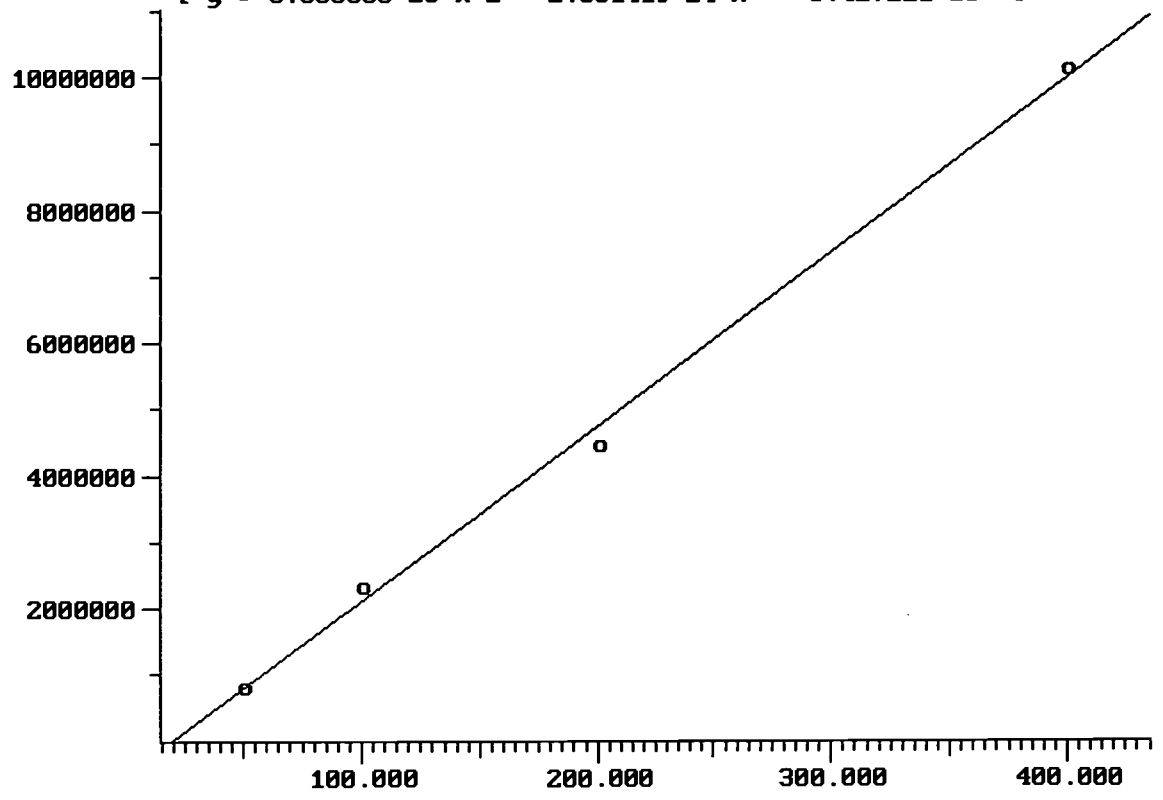
Time (min)	Signal Source	Attenuation
Initial	Front	1

****
3800 Runlog

Log of File: LMB0227A.SMS - Page 7

```
**********************
  0.00 min:  Column Oven Temperature: Setpoint 50 C
  0.00 min:   Front 1079 Injector Temperature: Setpoint 230 C
  0.00 min:   Front 1079 Injector Enable Coolant at: Setpoint 250 C
  0.00 min:   Front Injector EFC Type 1 Pressure:
             Setpoint   7.6 psi
  0.00 min:   Front Injector EFC Type 1 Split State: Setpoint On
  0.00 min:   Front Injector EFC Type 1 Split Ratio: Setpoint 20
  0.00 min:   Front ECD Temperature: Setpoint 300 C
  0.00 min:   Front ECD Range: Setpoint 10
  0.00 min:   Front ECD Time Constant: Setpoint Fast
  0.00 min:   Front ECD Cell Current: Setpoint CAP
  0.00 min:   Front ECD Contact Potential: Setpoint 50 mV
  0.00 min:  Output Port A Signal Source: Setpoint  Front
  0.00 min:  Output Port A Attenuation: Setpoint    1
  0.00 min:  Output Port B Signal Source: Setpoint  Front
  0.00 min:  Output Port B Attenuation: Setpoint    1
  0.00 min:  Output Port C Signal Source: Setpoint  Front
  0.00 min:  Output Port C Attenuation: Setpoint    1
  0.00 min:  Valve 1 Setpoint: Off
  0.00 min:  Valve 2 Setpoint: Off
  0.00 min:  Valve 3 Setpoint: Off
  0.00 min:  Valve 4 Setpoint: Off
  0.00 min:  Valve 5 Setpoint: Off
  0.00 min:  Valve 6 Setpoint: Off
  0.00 min:  Valve 7 Setpoint: Off
  0.01 min:   Front Injector EFC Type 1 Split State: Setpoint Off
  0.01 min:   Front Injector EFC Type 1 Split Ratio: Setpoint 100
  1.00 min:  Column Oven Temperature: Setpoint 90 C
  1.00 min:  Column Oven Ramp Rate: Setpoint  10.0 C/min
  1.00 min:   Front Injector EFC Type 1 Pressure:
             Setpoint   9.9 psi
  1.00 min:   Front Injector EFC Type 1 Ramp Rate:
             Setpoint   0.58 psi/min
  2.00 min:   Front Injector EFC Type 1 Split State: Setpoint On
  2.00 min:   Front Injector EFC Type 1 Split Ratio: Setpoint 120
```

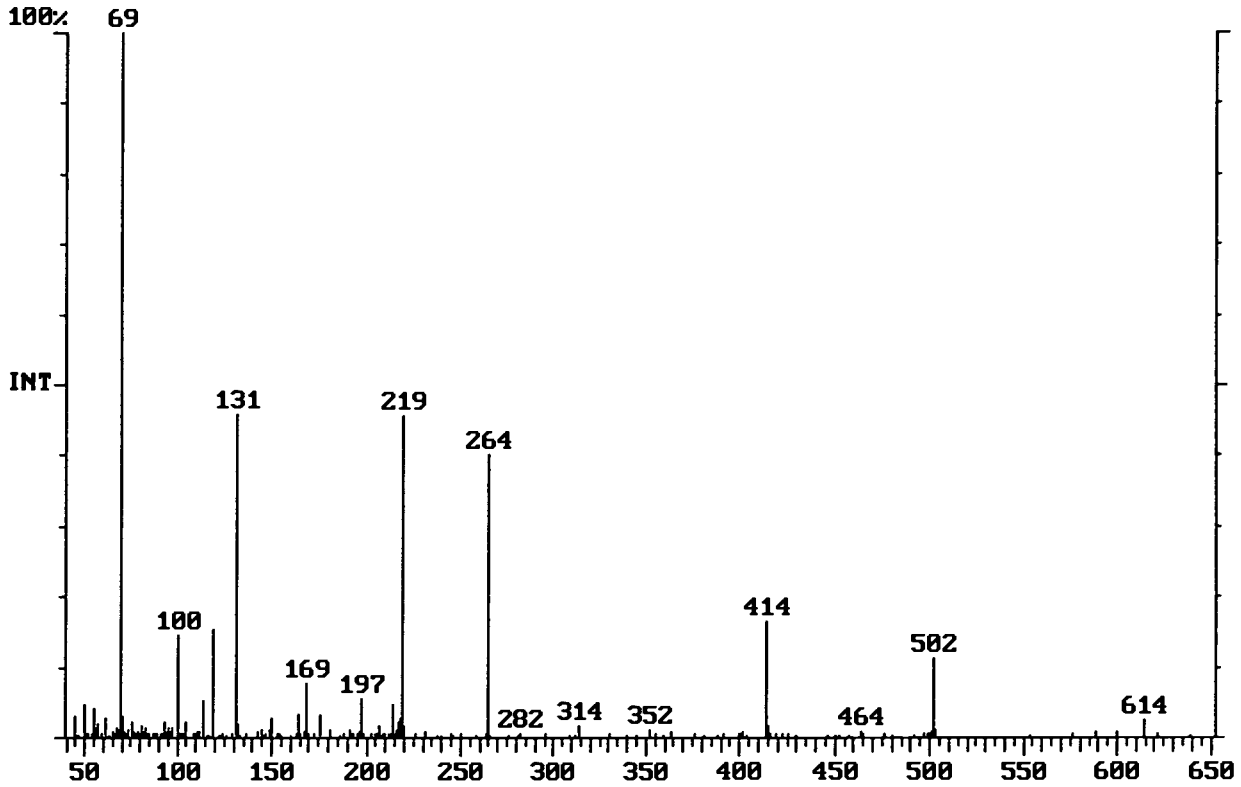
Calibration Plot (Ext Stds) Filename: 0227BN1 Correlation Coeff: 0.999
DMA Compound: 1 of 1 Standard Deviation: 192.504
(Peak Area of Sample) vs (Amount of Sample Injected) (Lin!Lin)
[y = 0.000000 E0 x^2 + 2.631419 E4 x + -5.427221 E5]



External Standards Report Filename: 0227BN1 Quan Mass: 44
DMA Compound: 1 of 1 Cali Pnts: 4
Sorted via: Entry Order ↑ Units: ug/L (S) = Standard

No	Ent Date	Time	Pk Area	Ret T.	Inj Amount	Ar/Amount
1	Feb-27-101	21:27	4,415,674	1:49	200.000	22078.370
2	Feb-27-101	21:27	2,301,935	1:50	100.000	23019.350
3	Feb-27-101	21:28	764,178	1:51	50.000	15283.560
4	Feb-27-101	21:56	10,082,965	1:49	400.000	25207.412

Spectrum Plot C:\BN\022701A\CALGAS Date: 02/27/01 07:34:48
Comment:
Scan: 30 Seg: 1 Group: 0 Retention: 0:28 RIC: 117755 Masses: 45-650
Pks: 174 Base Pk: 69 Int: 27512 100.00% = 27512



Mass List C:\BN\022701A\CALGAS Date: 02/27/01 07:34:48
Comment:
Scan: 30 Seg: 1 Group: 0 Retention: 0:28 RIC: 117755 Masses: 45-650
Peaks: 174 Mass of Base Peak: 69 Int: 27512 Threshold: 0.00%

Mass	Intensity	% Base	Mass	Intensity	% Base	Mass	Intensity	% Base
45	812	2.95	78	90	0.33	110	123	0.45
46	57	0.21	79	213	0.77	111	213	0.77
47	65	0.24	80	106	0.39	112	172	0.63
50	1,264	4.59	81	426	1.55	114	1,387	5.04
51	106	0.39	82	172	0.63	116	57	0.21
52	106	0.39	83	377	1.37	117	65	0.24
54	139	0.51	84	123	0.45	119	4,187	15.22
55	1,133	4.12	85	131	0.48	122	65	0.24
56	369	1.34	87	90	0.33	123	65	0.24
57	467	1.70	88	147	0.53	124	98	0.36
59	98	0.36	89	82	0.30	126	49	0.18
61	755	2.74	91	82	0.30	129	82	0.30
63	73	0.27	92	131	0.48	131	12,586	45.75
65	213	0.77	93	582	2.12	132	500	1.82
66	98	0.36	94	188	0.68	133	73	0.27
67	377	1.37	95	311	1.13	137	98	0.36
68	229	0.83	96	164	0.60	143	205	0.75
69	27,512	100.00	97	353	1.28	145	279	1.01
70	771	2.80	100	3,957	14.38	146	73	0.27
71	164	0.60	101	147	0.53	147	98	0.36
72	139	0.51	102	123	0.45	149	295	1.07
73	106	0.39	103	131	0.48	150	730	2.65
74	287	1.04	104	599	2.18	153	139	0.51
76	541	1.97	105	353	1.28	154	90	0.33
77	180	0.65	109	114	0.41	155	57	0.21

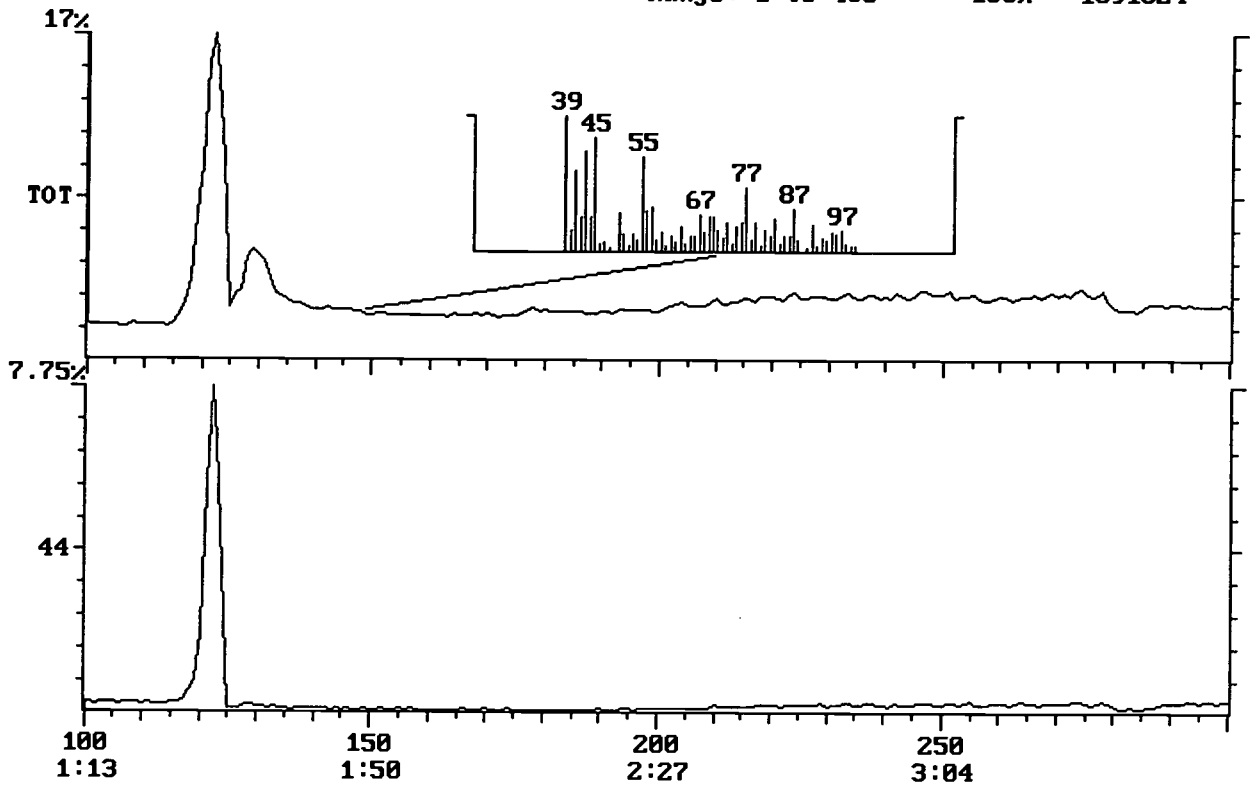
Mass List C:\BN\022701A\CALGAS Date: 02/27/01 07:34:48
Comment:
Scan: 30 Seg: 1 Group: 0 Retention: 0:28 RIC: 117755 Masses: 45-650
Peaks: 174 Mass of Base Peak: 69 Int: 27512 Threshold: 0.00%

Mass	Intensity	% Base	Mass	Intensity	% Base	Mass	Intensity	% Base
110	123	0.45	160	65	0.24	209	131	0.48
111	213	0.77	163	90	0.33	210	147	0.53
112	172	0.63	164	903	3.28	212	139	0.51
114	1,387	5.04	165	90	0.33	213	106	0.39
116	57	0.21	167	188	0.68	214	1,239	4.50
117	65	0.24	168	65	0.24	215	147	0.53
119	4,187	15.22	169	2,068	7.52	216	279	1.01
122	65	0.24	170	123	0.45	217	574	2.09
123	65	0.24	173	82	0.30	218	706	2.57
124	98	0.36	176	903	3.28	219	12,569	45.69
126	49	0.18	181	303	1.10	220	402	1.46
129	82	0.30	186	65	0.24	226	106	0.39
131	12,586	45.75	188	98	0.36	231	197	0.72
132	500	1.82	191	229	0.83	238	65	0.24
133	73	0.27	192	98	0.36	240	49	0.18
137	98	0.36	193	90	0.33	245	123	0.45
143	205	0.75	195	131	0.48	246	73	0.27
145	279	1.01	196	172	0.63	250	82	0.30
146	73	0.27	197	1,453	5.28	258	57	0.21
147	98	0.36	198	123	0.45	263	147	0.53
149	295	1.07	203	90	0.33	264	10,993	39.96
150	730	2.65	205	82	0.30	265	681	2.48
153	139	0.51	206	114	0.41	266	65	0.24
154	90	0.33	207	426	1.55	276	73	0.27
155	57	0.21	208	57	0.21	281	65	0.24

Mass List C:\BN\022701A\CALGAS Date: 02/27/01 07:34:48
Comment:
Scan: 30 Seg: 1 Group: 0 Retention: 0:28 RIC: 117755 Masses: 45-650
Peaks: 174 Mass of Base Peak: 69 Int: 27512 Threshold: 0.00%

Mass	Intensity	% Base	Mass	Intensity	% Base	Mass	Intensity	% Base
209	131	0.48	282	114	0.41	426	123	0.45
210	147	0.53	295	82	0.30	430	65	0.24
212	139	0.51	309	57	0.21	446	57	0.21
213	106	0.39	312	57	0.21	450	49	0.18
214	1,239	4.50	314	402	1.46	452	73	0.27
215	147	0.53	331	90	0.33	457	57	0.21
216	279	1.01	340	57	0.21	464	213	0.77
217	574	2.09	345	57	0.21	465	82	0.30
218	706	2.57	352	246	0.89	476	82	0.30
219	12,569	45.69	355	106	0.39	480	65	0.24
220	402	1.46	359	49	0.18	492	49	0.18
226	106	0.39	364	205	0.75	497	106	0.39
231	197	0.72	376	106	0.39	499	139	0.51
238	65	0.24	381	73	0.27	500	90	0.33
240	49	0.18	388	57	0.21	501	164	0.60
245	123	0.45	391	82	0.30	502	3,037	11.04
246	73	0.27	400	82	0.30	503	303	1.10
250	82	0.30	401	82	0.30	554	49	0.18
258	57	0.21	402	155	0.56	576	90	0.33
263	147	0.53	404	65	0.24	589	155	0.56
264	10,993	39.96	414	4,499	16.35	600	180	0.65
265	681	2.48	415	426	1.55	614	623	2.26
266	65	0.24	416	82	0.30	622	82	0.30
276	73	0.27	419	82	0.30	639	65	0.24
281	65	0.24	422	82	0.30			

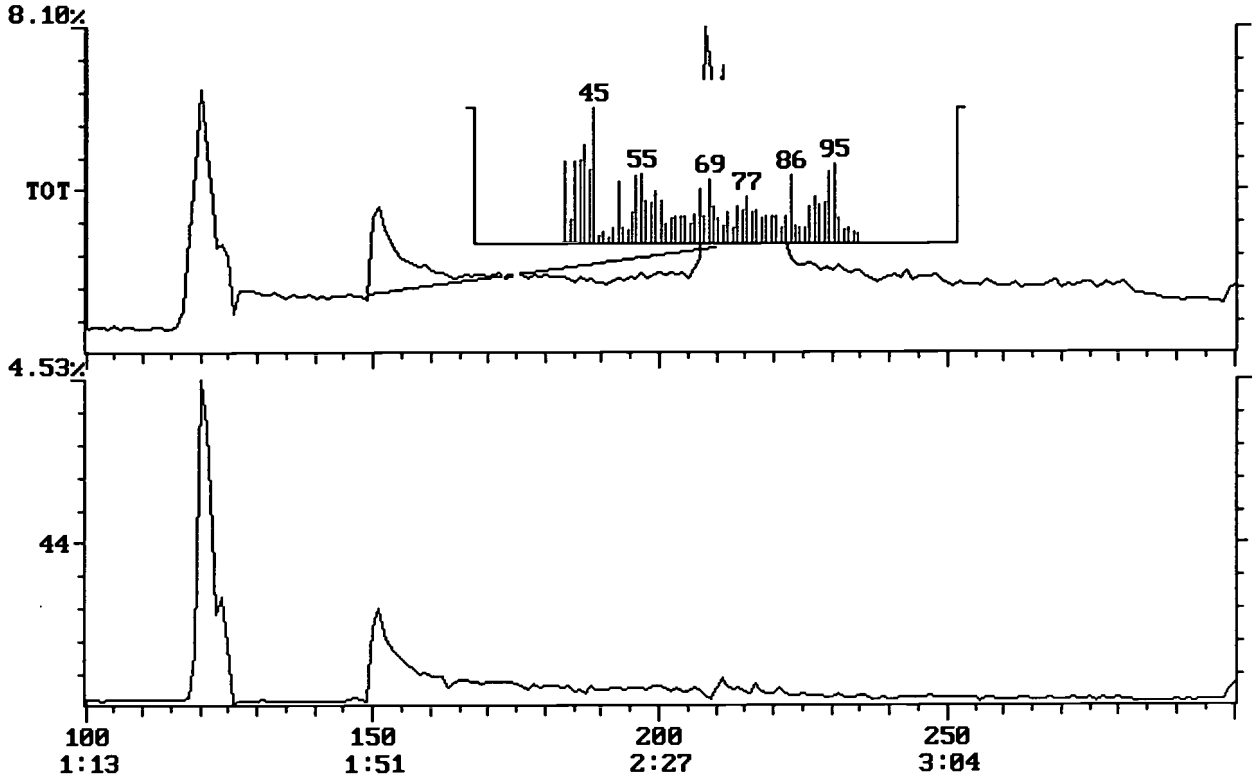
Chromatogram Plot C:\BN\022701A\LMB0227A Date: 02/27/01 12:51:09
Comment:
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 27922 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 405 100% = 1591324



Quantitation Report Quan File: LMB0227A Cali File: 0227BN1 Entries: 1
Comment:
Sorted via: Entry Number ↑ IS Factor: 0.000 Mult: 0.000 Div: 0.000

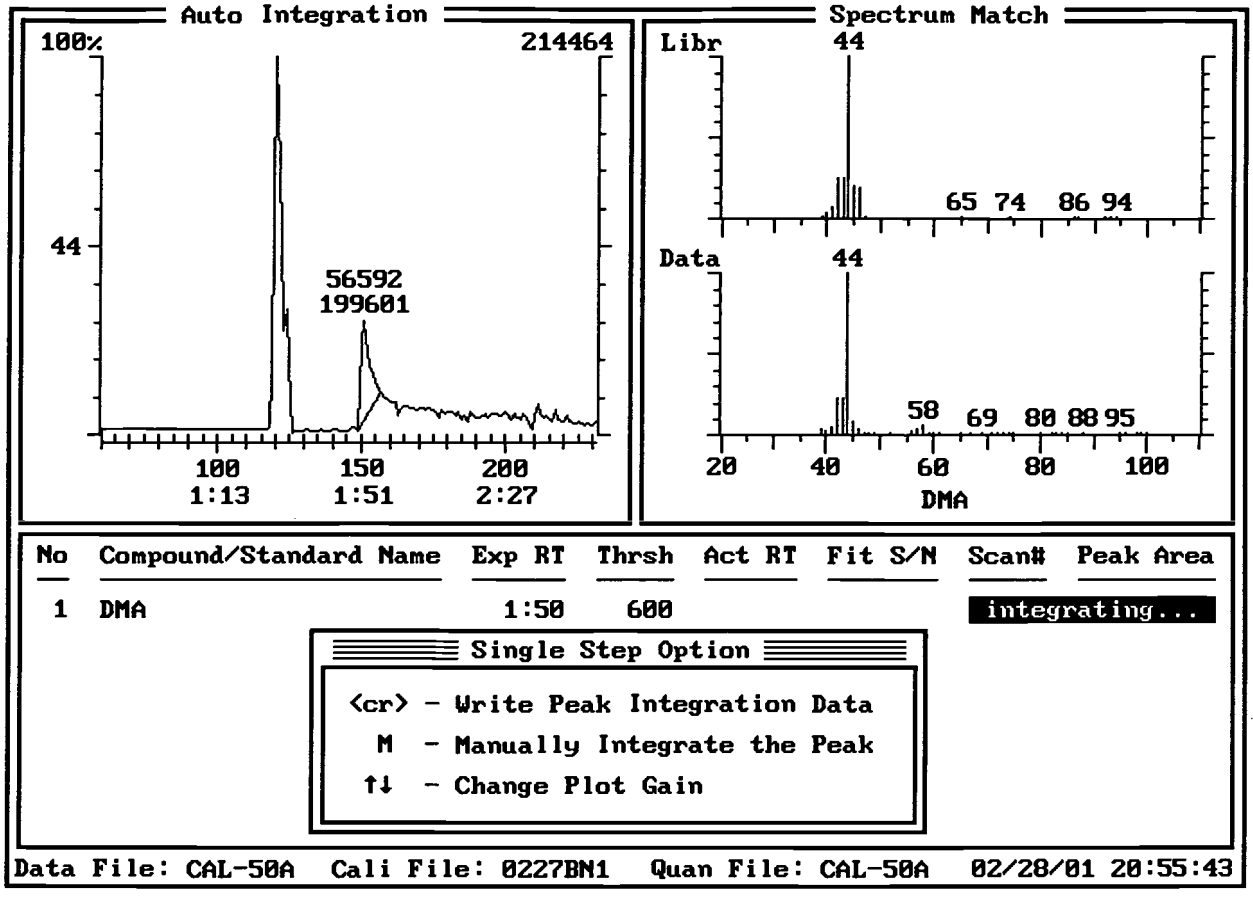
Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	?	?	?	ug/L

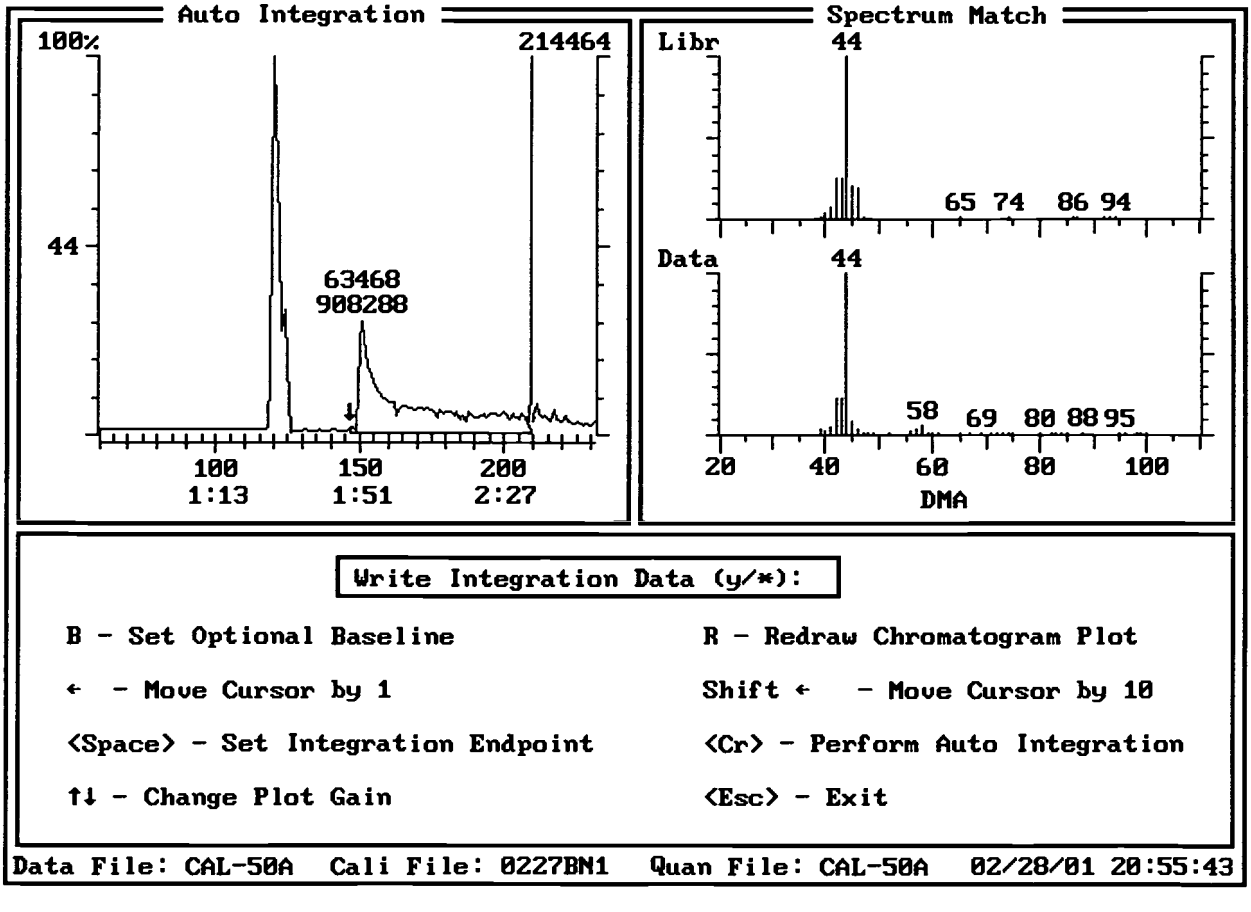
Chromatogram Plot C:\BN\022701A\CAL-50A Date: 02/27/01 14:28:43
Comment: DMA AT 50 PPB CALIBRATION STANDARD.
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 27496 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 4739000



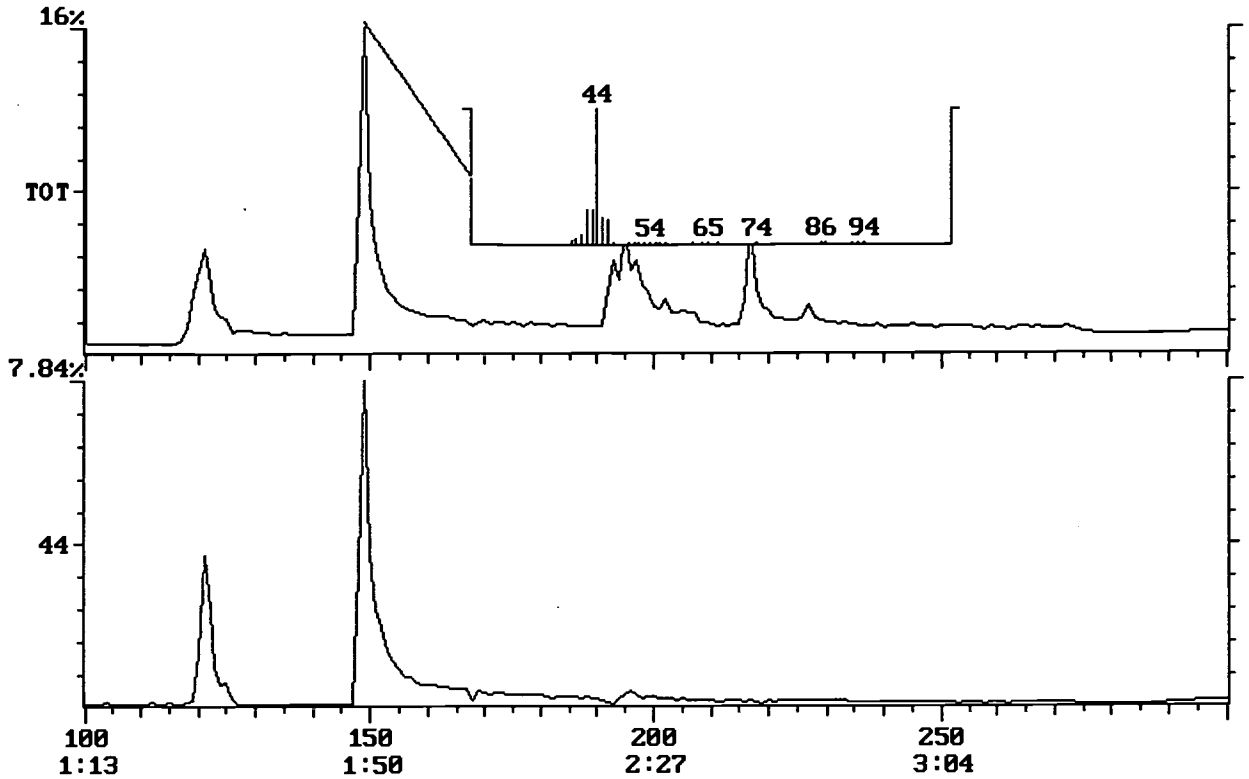
Quantitation Report Quan File: CAL-50A Cali File: 0227BN1 Entries: 1
Comment: DMA AT 50 PPB CALIBRATION STANDARD.
Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:51	908,288	45.515	ug/L


Auto Integration
100%
214464
44
56592
199601
100
150
200
1:13
1:51
2:27
Spectrum Match
Libr
44
65 74 86 94
Data
44
58 69 80 88 95
20 40 60 80 100
DMA
No Compound/Standard Name Exp RT Thrsh Act RT Fit S/N Scan# Peak Area
1 DMA 1:50 600
integrating...
Single Step Option
<cr> - Write Peak Integration Data
M - Manually Integrate the Peak
↑↓ - Change Plot Gain
Data File: CAL-50A Cali File: 0227BN1 Quan File: CAL-50A 02/28/01 20:55:43

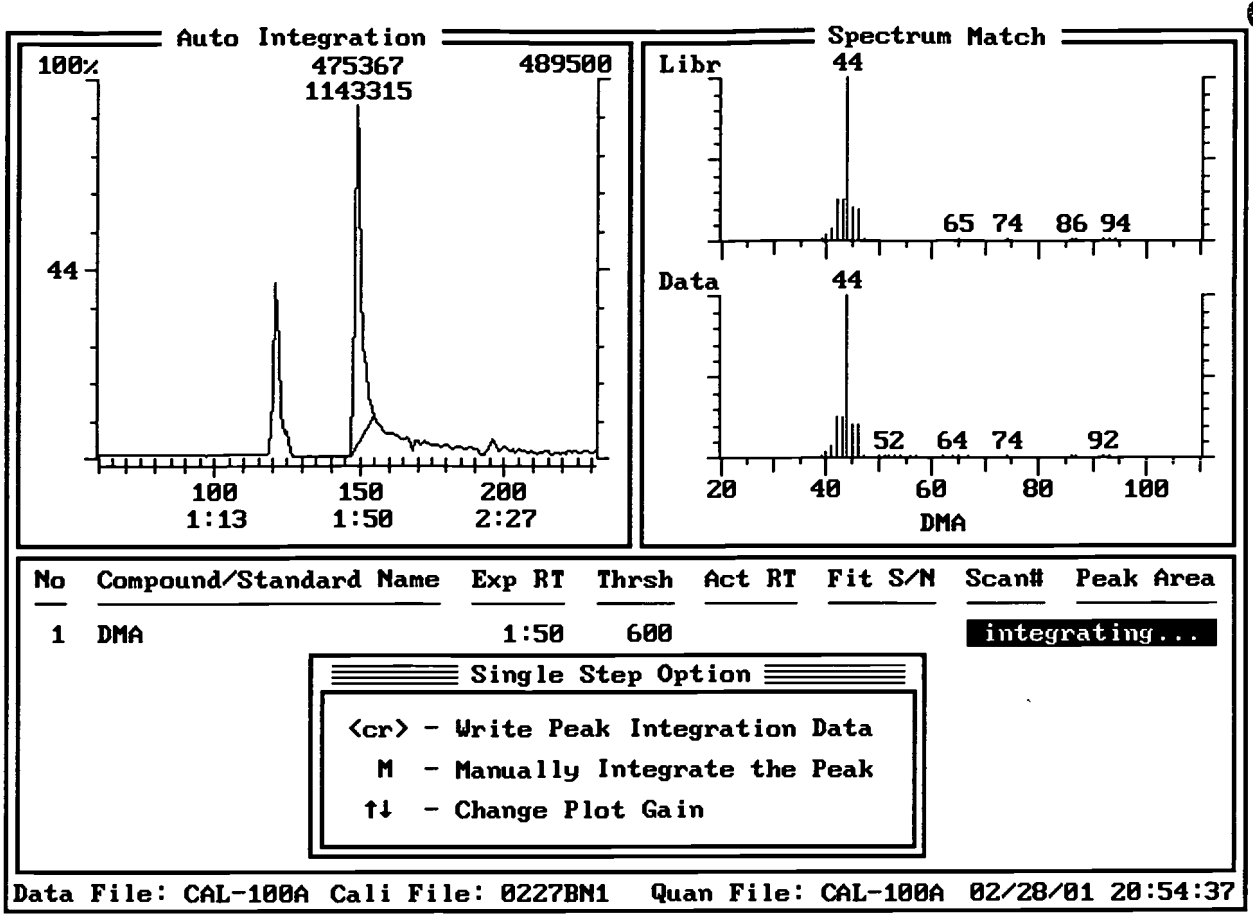

Auto Integration
100%
214464
44
63468
908288
100
150
200
1:13
1:51
2:27
Spectrum Match
Libr
44
65 74 86 94
Data
44
58 69 80 88 95
20 40 60 80 100
DMA
Write Integration Data (y/*):
B - Set Optional Baseline
R - Redraw Chromatogram Plot
← - Move Cursor by 1
Shift ← - Move Cursor by 10
<Space> - Set Integration Endpoint
<Cr> - Perform Auto Integration
↑↓ - Change Plot Gain
<Esc> - Exit
Data File: CAL-50A Cali File: 0227BN1 Quan File: CAL-50A 02/28/01 20:55:43

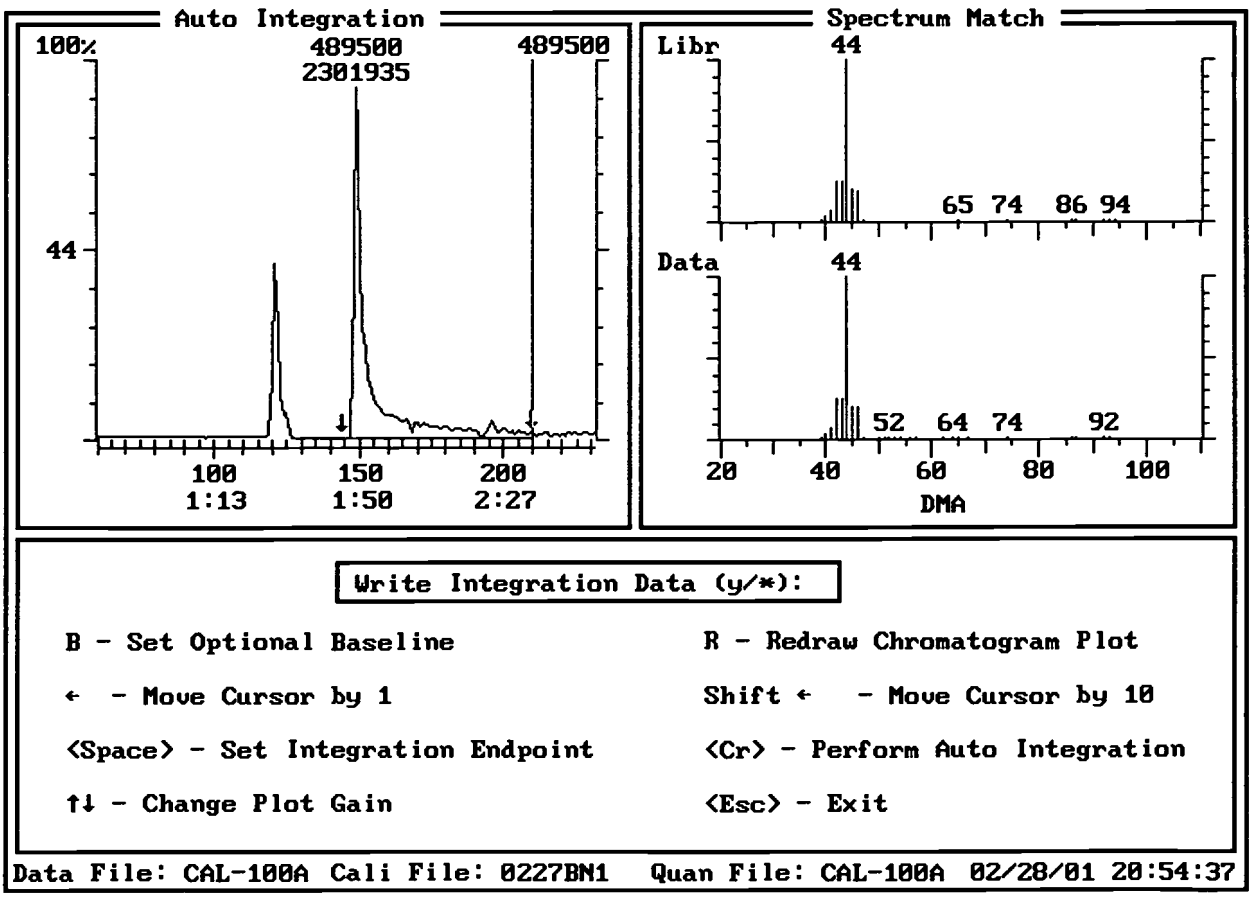
Chromatogram Plot C:\BN\022701A\CAL-100A Date: 02/27/01 15:12:39
Comment: CAL STD 100 PPB DMA.
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 27263 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 6245309



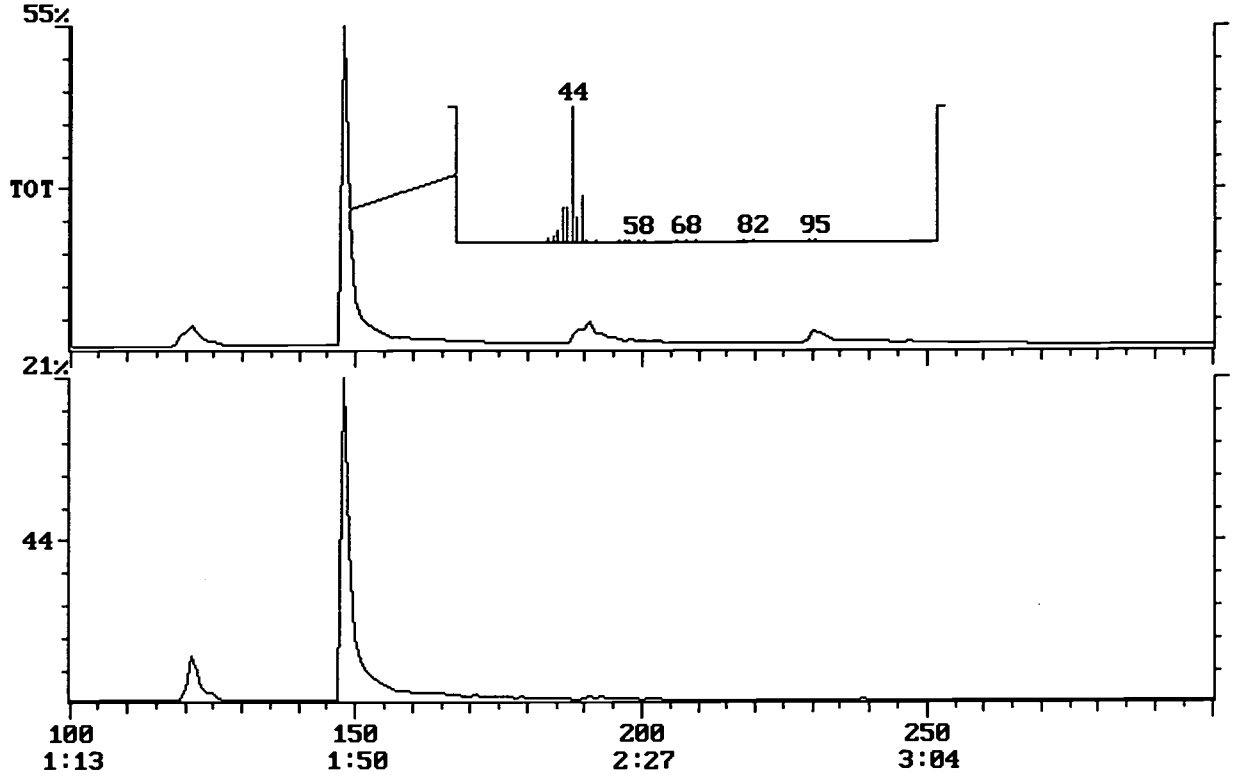
Quantitation Report Quan File: CAL-100A Cali File: 0227BN1 Entries: 1
Comment: CAL STD 100 PPB DMA.
Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:50	2,301,935	106.329	ug/L


Auto Integration
100%
475367
1143315
489500
44
100
150
200
1:13
1:50
2:27
Spectrum Match
Libr
44
65 74 86 94
Data
44
52 64 74 92
20 40 60 80 100
DMA
No Compound/Standard Name Exp RT Thrsh Act RT Fit S/N Scan# Peak Area
1 DMA 1:50 600
integrating...
Single Step Option
<cr> - Write Peak Integration Data
M - Manually Integrate the Peak
↑↓ - Change Plot Gain
Data File: CAL-100A Cali File: 0227BN1 Quan File: CAL-100A 02/28/01 20:54:37

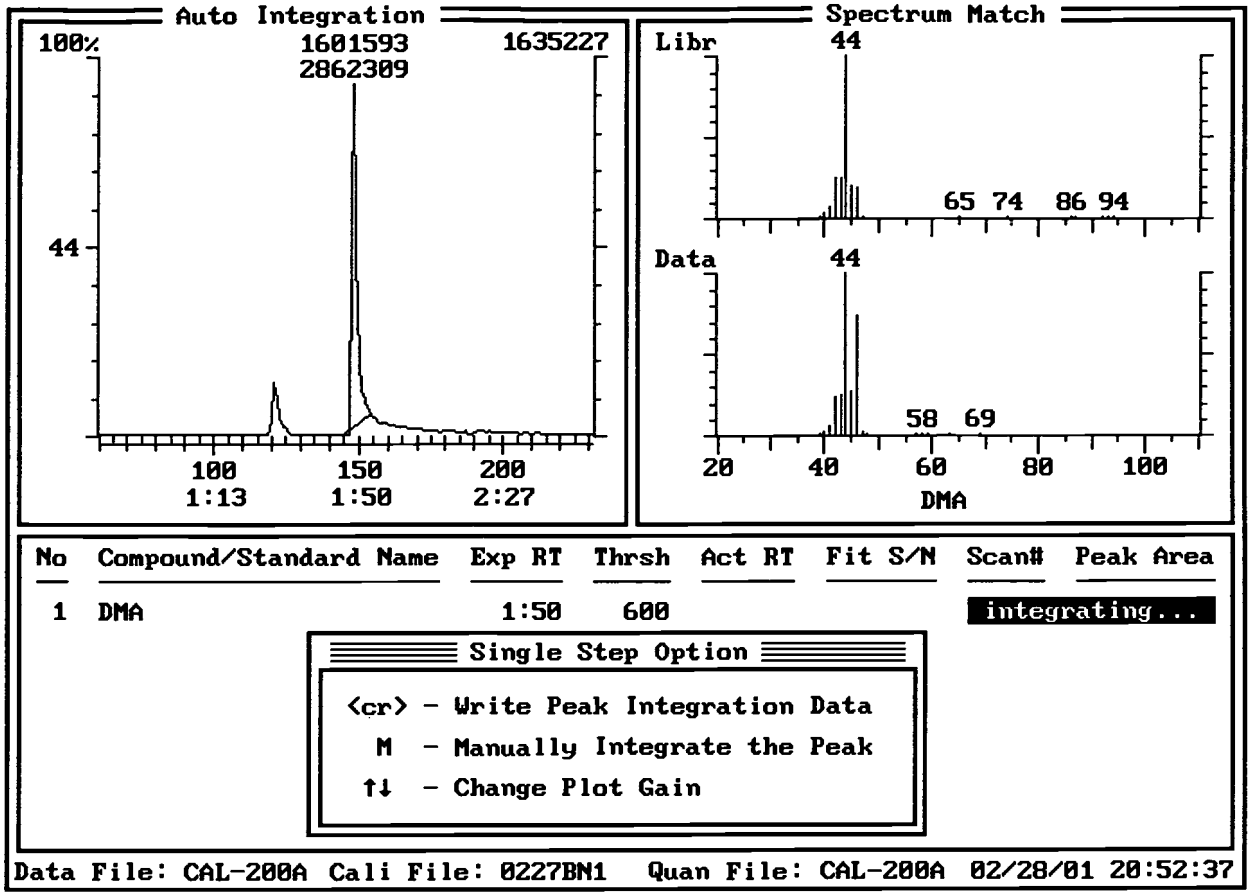

Auto Integration
100%
489500
2301935
489500
44
100
150
200
1:13
1:50
2:27
Spectrum Match
Libr
44
65 74 86 94
Data
44
52 64 74 92
20 40 60 80 100
DMA
Write Integration Data (y/*):
B - Set Optional Baseline
R - Redraw Chromatogram Plot
← - Move Cursor by 1
Shift ← - Move Cursor by 10
<Space> - Set Integration Endpoint
<Cr> - Perform Auto Integration
↑↓ - Change Plot Gain
<Esc> - Exit
Data File: CAL-100A Cali File: 0227BN1 Quan File: CAL-100A 02/28/01 20:54:37

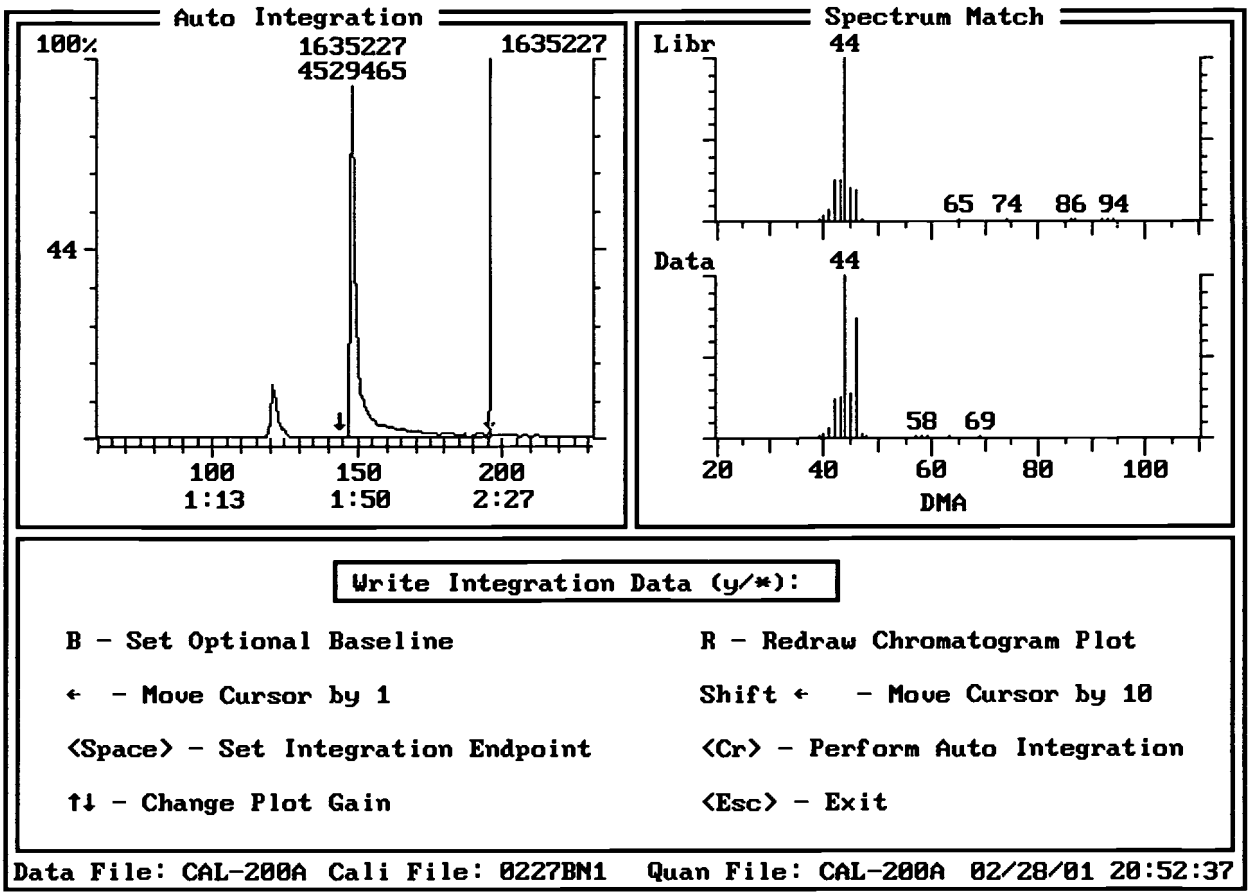
Chromatogram Plot C:\BN\022701A\CAL-200A Date: 02/27/01 15:57:28
Comment: CAL STD AT 200 PPB DMA.
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 29319 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 7616166



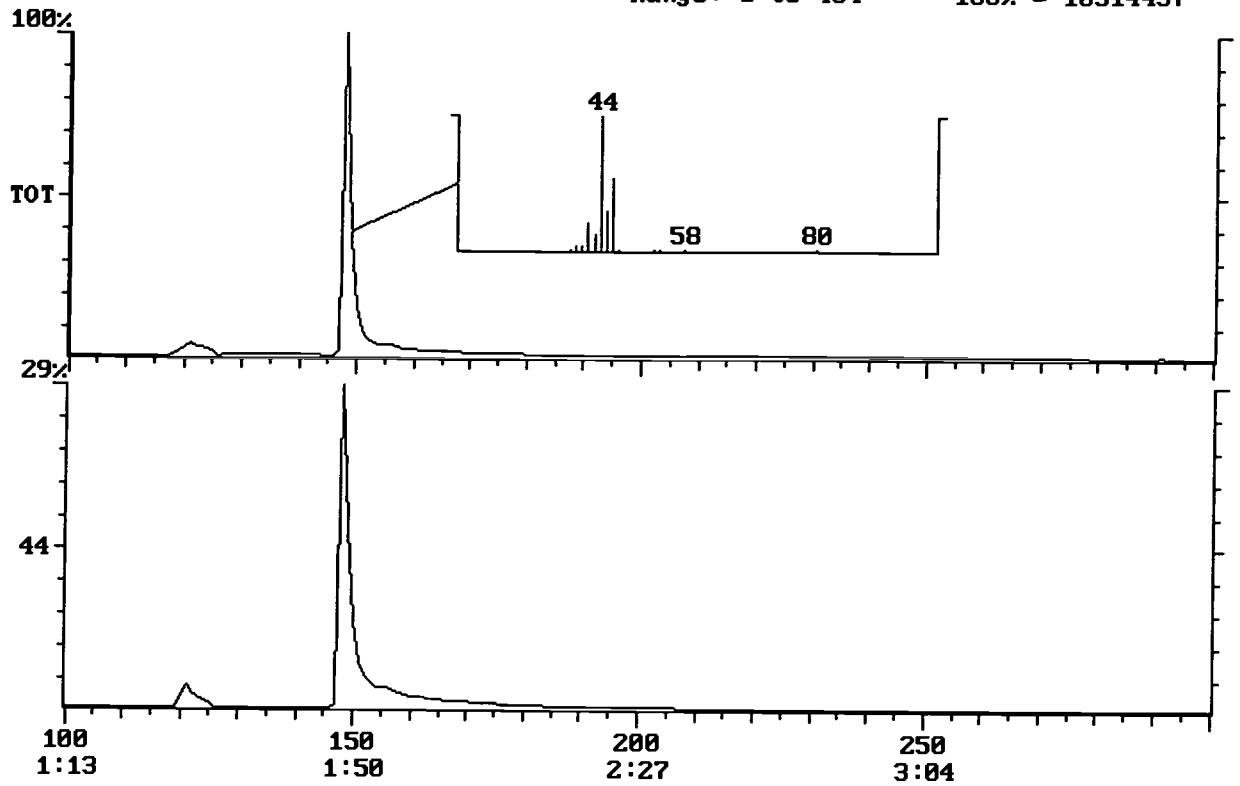
Quantitation Report Quan File: CAL-200A Cali File: 0227BN1 Entries: 1
Comment: CAL STD AT 200 PPB DMA.
Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:49	4,529,465	203.531	ug/L


Auto Integration
100%
1601593
1635227
2862309
44
100
150
200
1:13
1:50
2:27
Spectrum Match
Libr
44
65 74 86 94
Data
44
58 69
20
40
60
80
100
DMA
No Compound/Standard Name Exp RT Thrsh Act RT Fit S/N Scan# Peak Area
1 DMA 1:50 600
integrating...
Single Step Option
<cr> - Write Peak Integration Data
M - Manually Integrate the Peak
↑↓ - Change Plot Gain
Data File: CAL-200A Cali File: 0227BN1 Quan File: CAL-200A 02/28/01 20:52:37

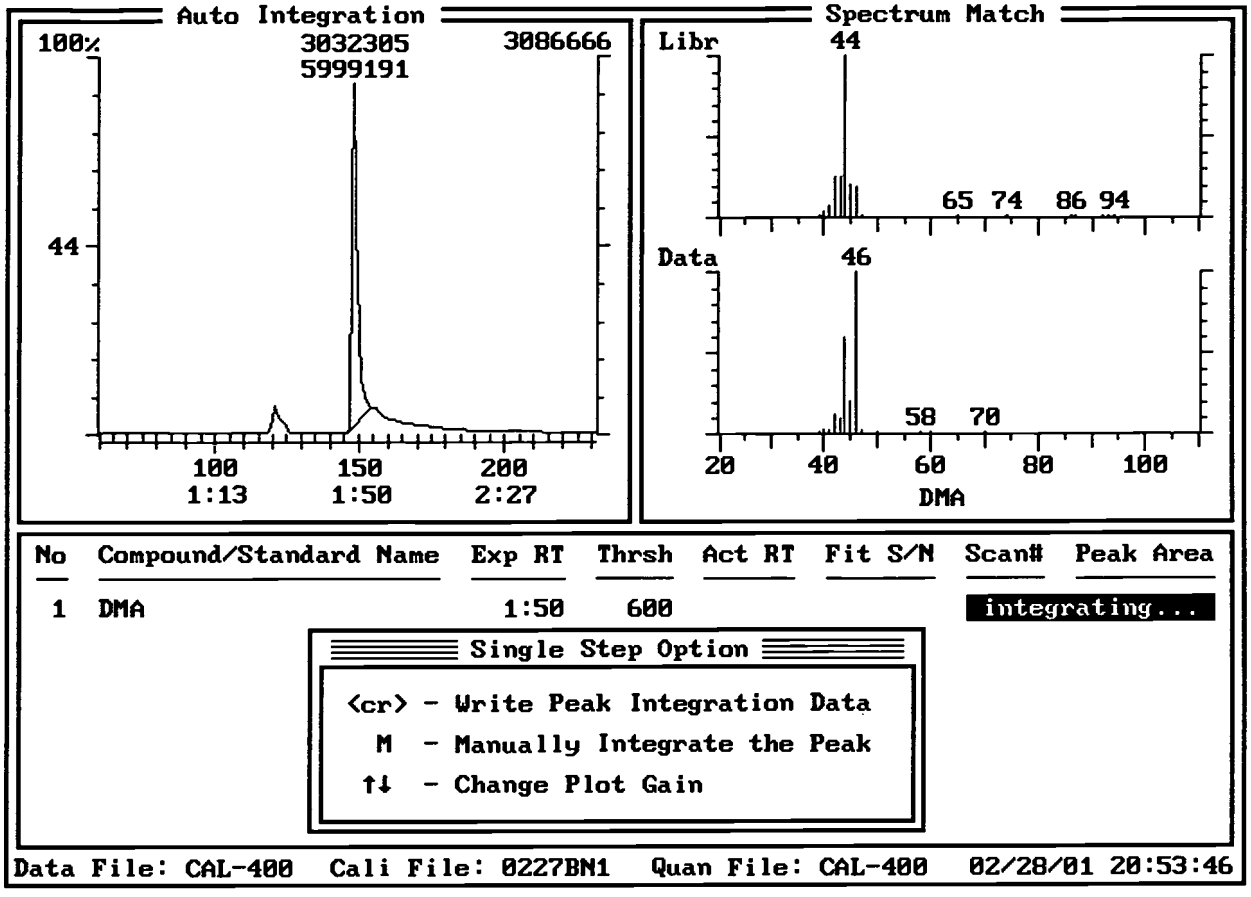

Auto Integration
100%
1635227
1635227
4529465
44
100
150
200
1:13
1:50
2:27
Spectrum Match
Libr
44
65 74 86 94
Data
44
58 69
20
40
60
80
100
DMA
Write Integration Data (y/*):
B - Set Optional Baseline
R - Redraw Chromatogram Plot
← - Move Cursor by 1
Shift ← - Move Cursor by 10
<Space> - Set Integration Endpoint
<Cr> - Perform Auto Integration
↑↓ - Change Plot Gain
<Esc> - Exit
Data File: CAL-200A Cali File: 0227BN1 Quan File: CAL-200A 02/28/01 20:52:37

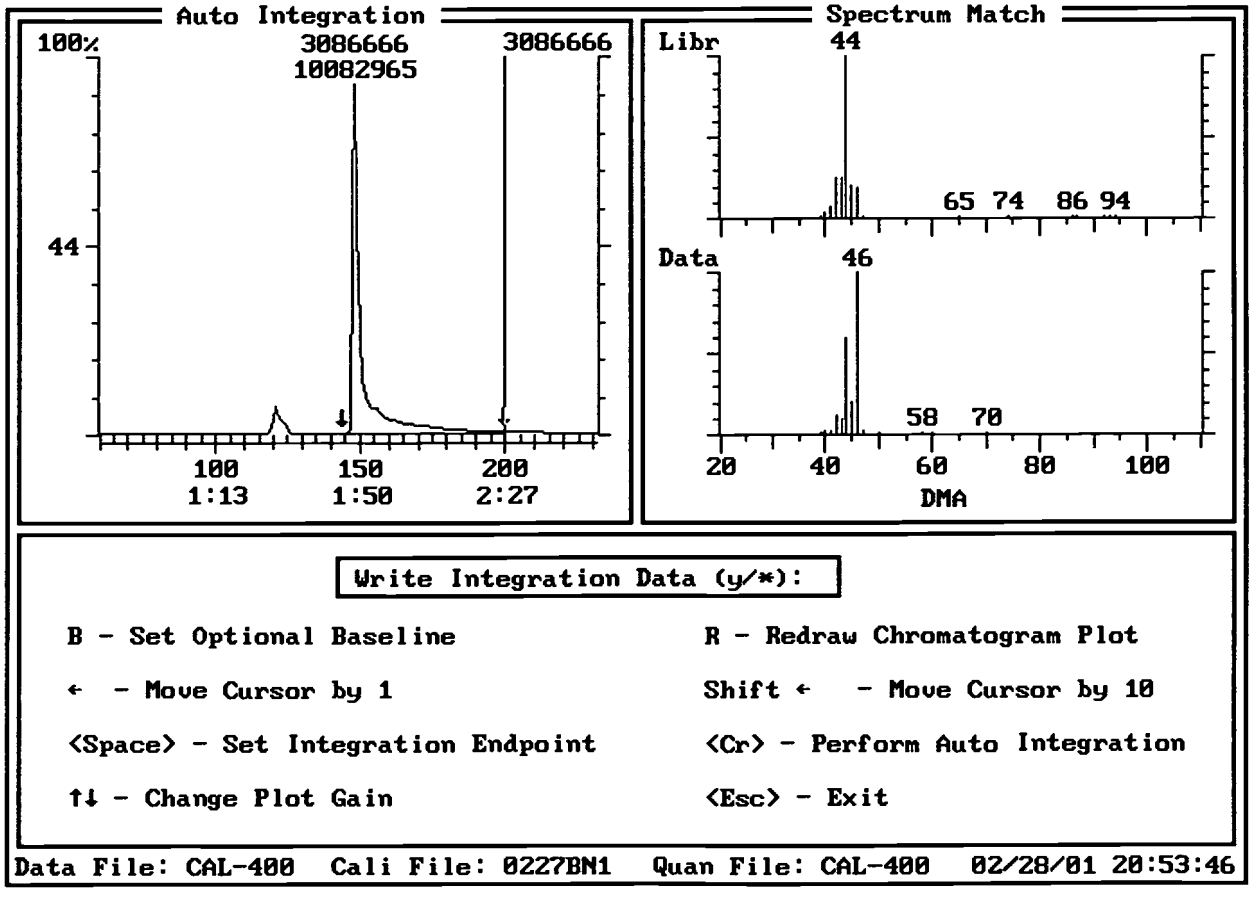
Chromatogram Plot C:\BN\022701A\CAL-400 Date: 02/27/01 16:43:48
Comment: CAL STD AT 400 PPB DMA.
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 34795 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 10514437



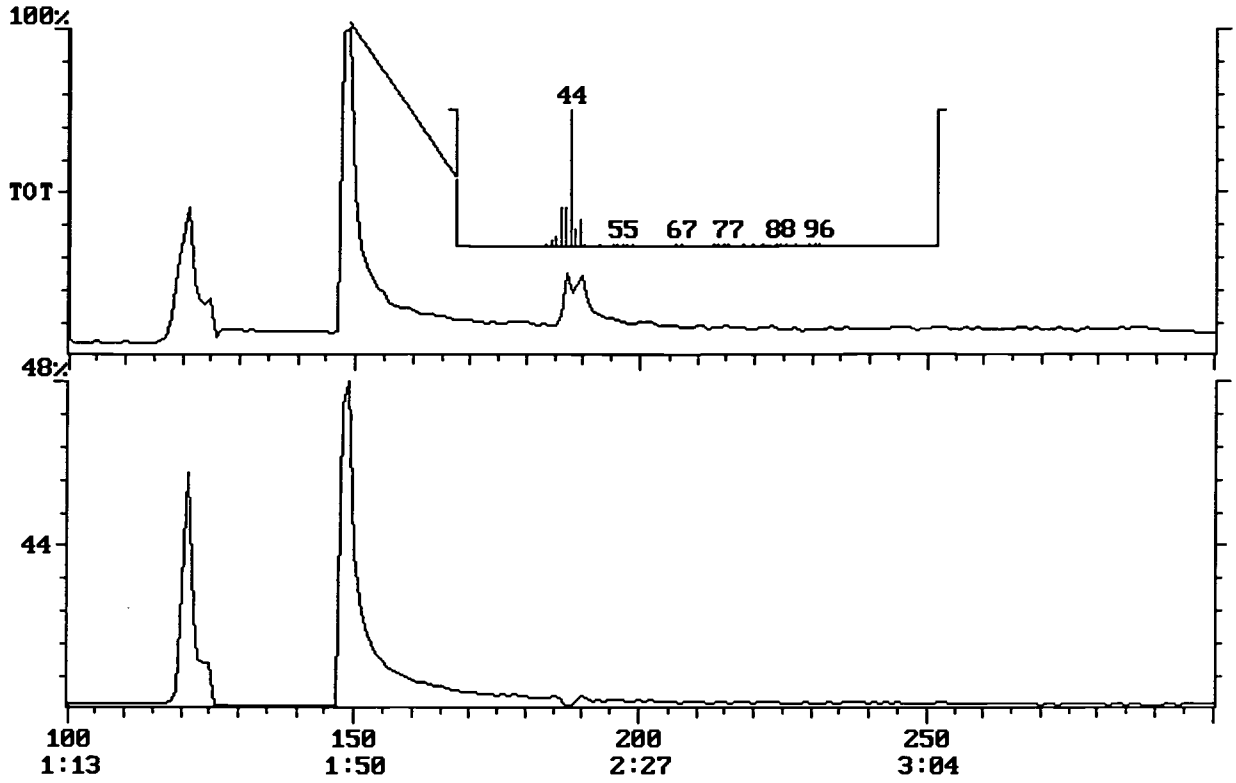
Quantitation Report Quan File: CAL-400 Cali File: 0227BN1 Entries: 1
Comment: CAL STD AT 400 PPB DMA.
Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:49	10,082,965	407.206	ug/L


Auto Integration
100%
3032305
5999191
3086666
44
100
150
200
1:13
1:50
2:27
Spectrum Match
Libr
44
65 74 86 94
Data
46
58 70
20 40 60 80 100
DMA
No Compound/Standard Name Exp RT Thrsh Act RT Fit S/N Scan# Peak Area
1 DMA 1:50 600
integrating...
Single Step Option
<cr> - Write Peak Integration Data
M - Manually Integrate the Peak
↑↓ - Change Plot Gain
Data File: CAL-400 Cali File: 0227BN1 Quan File: CAL-400 02/28/01 20:53:46

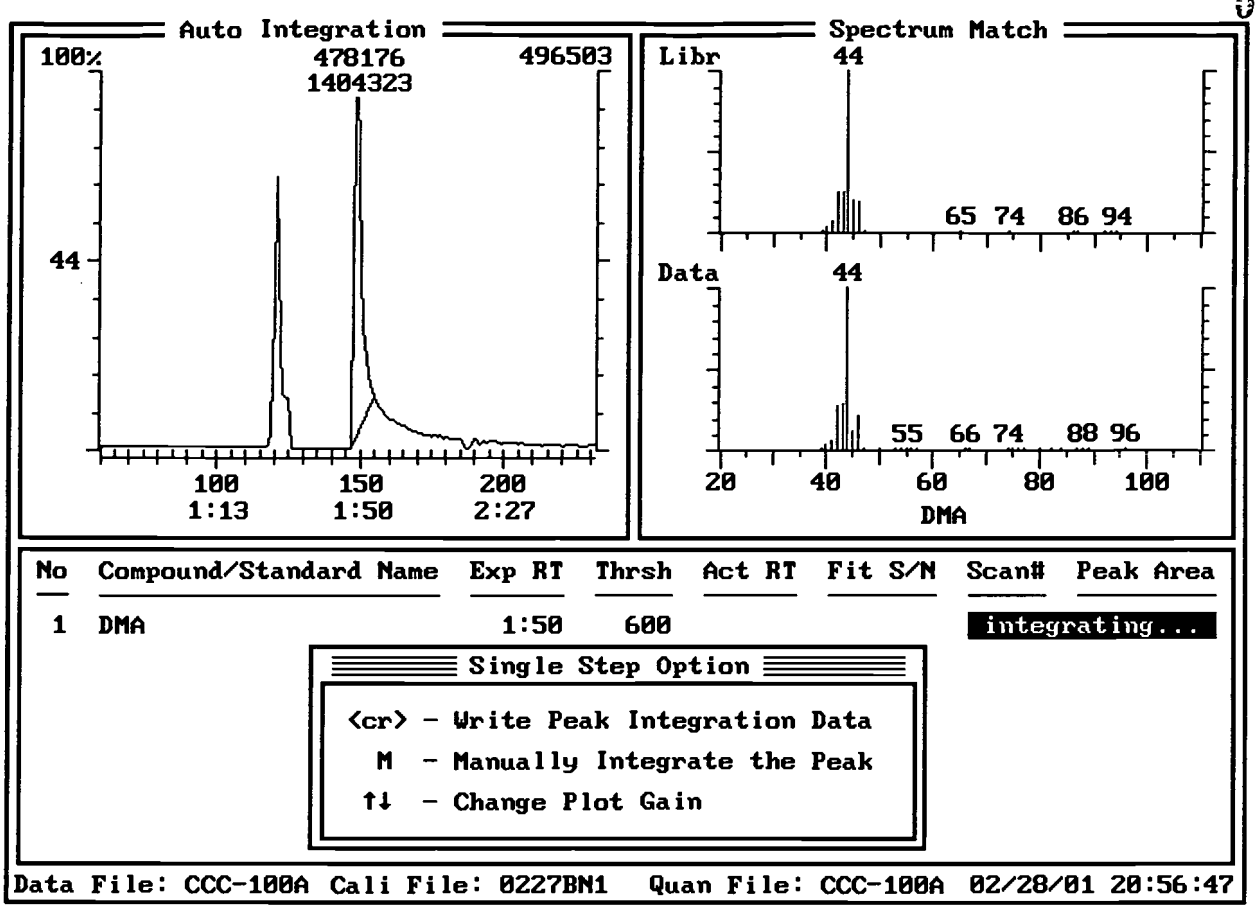

Auto Integration
100%
3086666
10082965
3086666
44
100
150
200
1:13
1:50
2:27
Spectrum Match
Libr
44
65 74 86 94
Data
46
58 70
20 40 60 80 100
DMA
Write Integration Data (y/*):
B - Set Optional Baseline
R - Redraw Chromatogram Plot
← - Move Cursor by 1
Shift ← - Move Cursor by 10
<Space> - Set Integration Endpoint
<Cr> - Perform Auto Integration
↑↓ - Change Plot Gain
<Esc> - Exit
Data File: CAL-400 Cali File: 0227BN1 Quan File: CAL-400 02/28/01 20:53:46

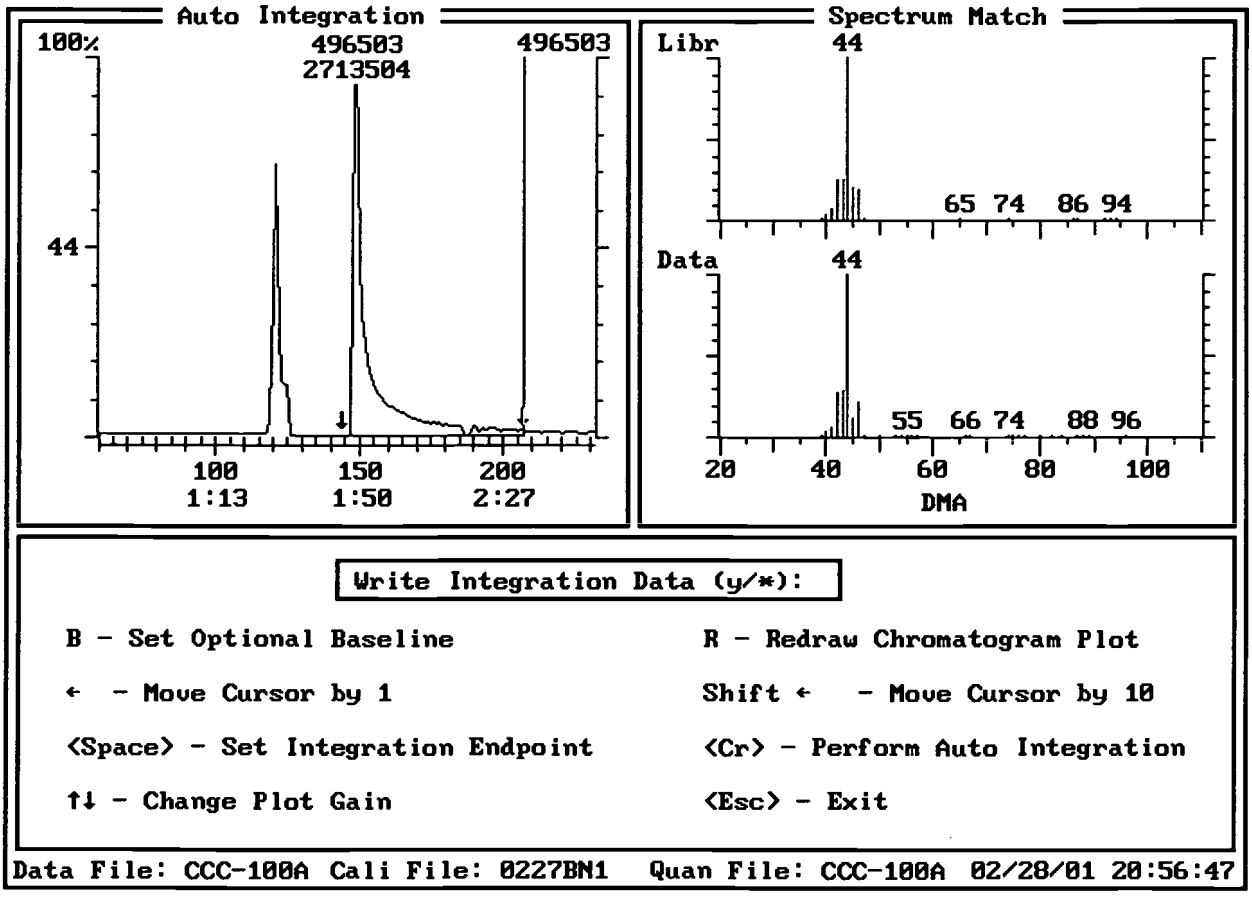
Chromatogram Plot C:\BN\022701A\CCC-100A Date: 02/27/01 17:28:25
Comment: CCC DMA AT 100 PPB.
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 37385 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 1034425



Quantitation Report Quan File: CCC-100A Cali File: 0227BN1 Entries: 1
Comment: CCC DMA AT 100 PPB.
Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:50	2,713,504	124.289	ug/L


Auto Integration
100%
478176
1404323
496503
44
100
150
200
1:13
1:50
2:27
Spectrum Match
Libr
44
65 74 86 94
Data
44
55 66 74 88 96
20
40
60
80
100
DMA
No Compound/Standard Name Exp RT Thrsh Act RT Fit S/N Scan# Peak Area
1 DMA 1:50 600
integrating...
Single Step Option
<cr> - Write Peak Integration Data
M - Manually Integrate the Peak
↑↓ - Change Plot Gain
Data File: CCC-100A Cali File: 0227BN1 Quan File: CCC-100A 02/28/01 20:56:47

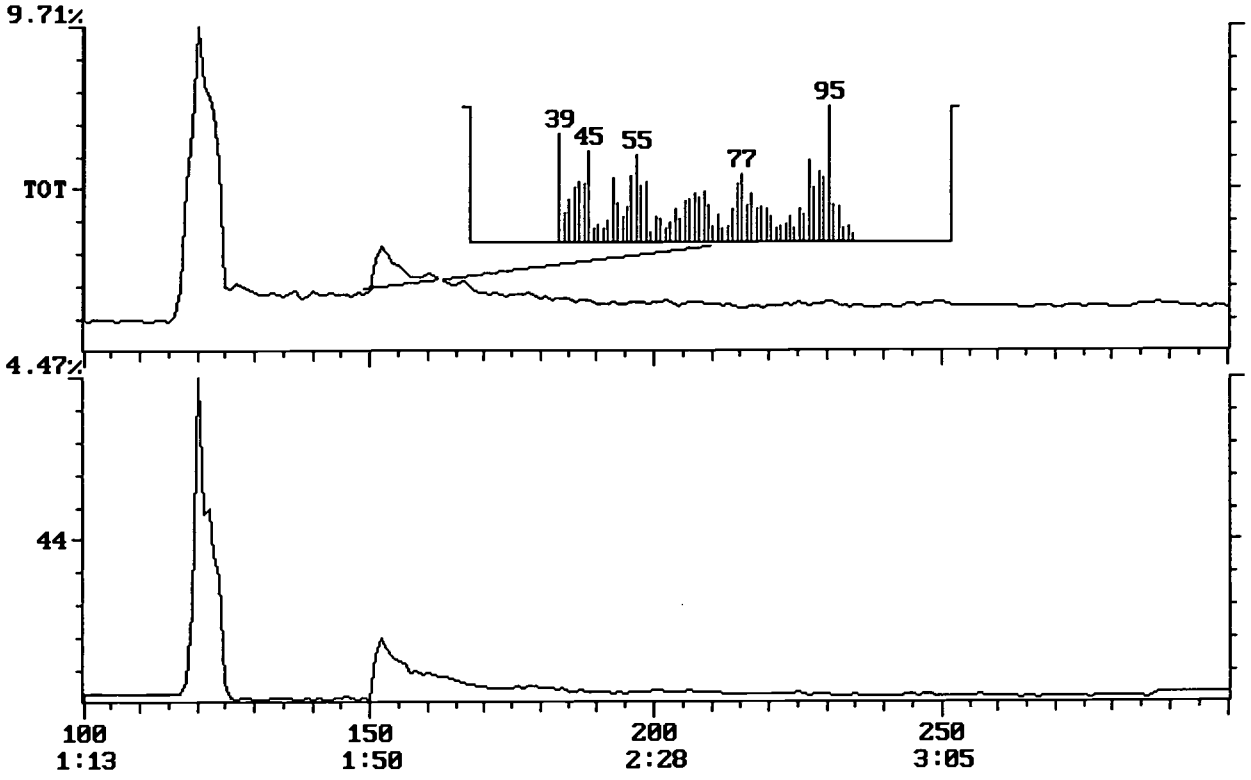

Auto Integration
100%
496503
2713504
496503
44
100
150
200
1:13
1:50
2:27
Spectrum Match
Libr
44
65 74 86 94
Data
44
55 66 74 88 96
20
40
60
80
100
DMA
Write Integration Data (y/*):
B - Set Optional Baseline
R - Redraw Chromatogram Plot
← - Move Cursor by 1
Shift ← - Move Cursor by 10
<Space> - Set Integration Endpoint
<Cr> - Perform Auto Integration
↑↓ - Change Plot Gain
<Esc> - Exit
Data File: CCC-100A Cali File: 0227BN1 Quan File: CCC-100A 02/28/01 20:56:47

Chromatogram Plot C:\BN\022701A\576020 Date: 02/27/01 18:22:22

Comment: 576020-DK27140.

Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 35821 Masses: 39-100

Plotted: 100 to 300 Range: 1 to 404 100% = 4184988

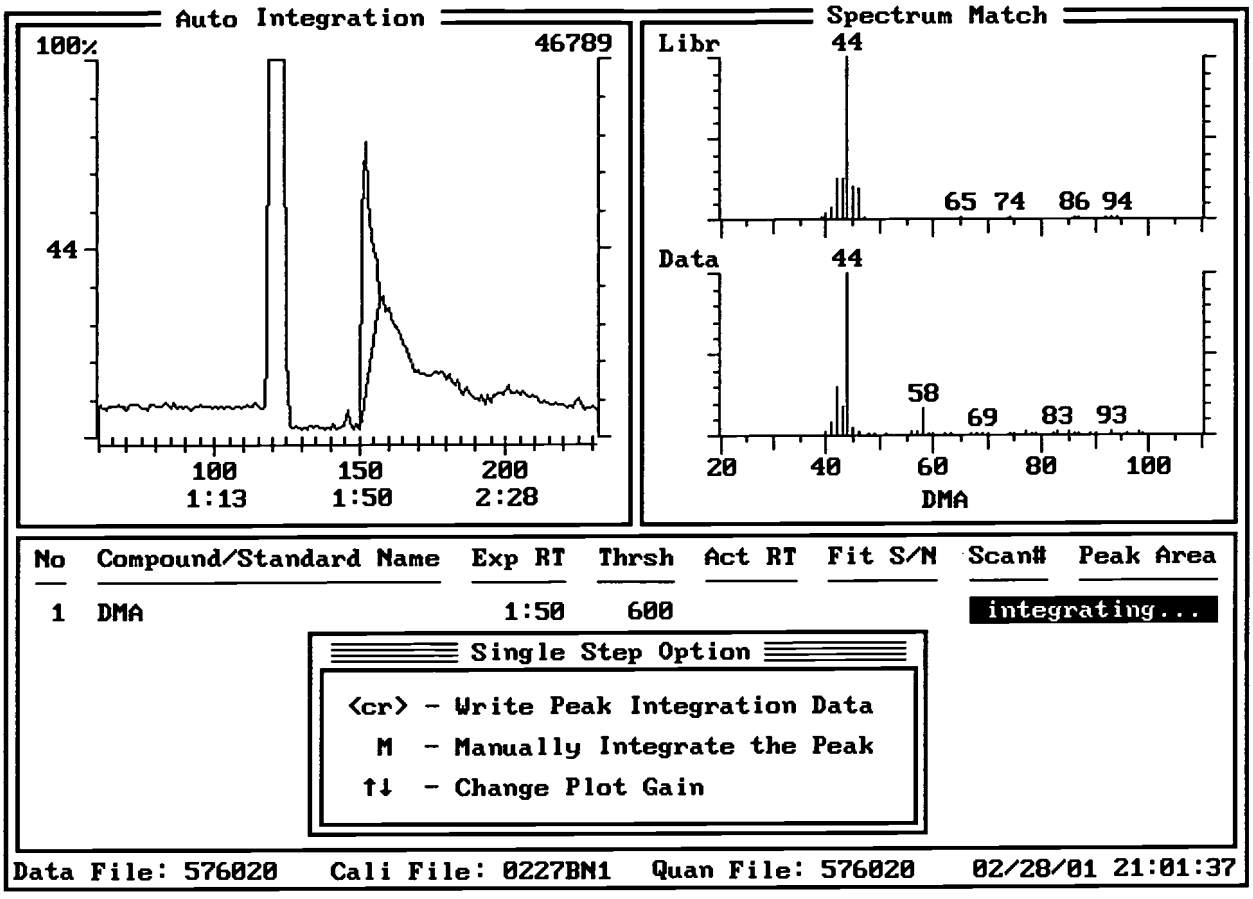


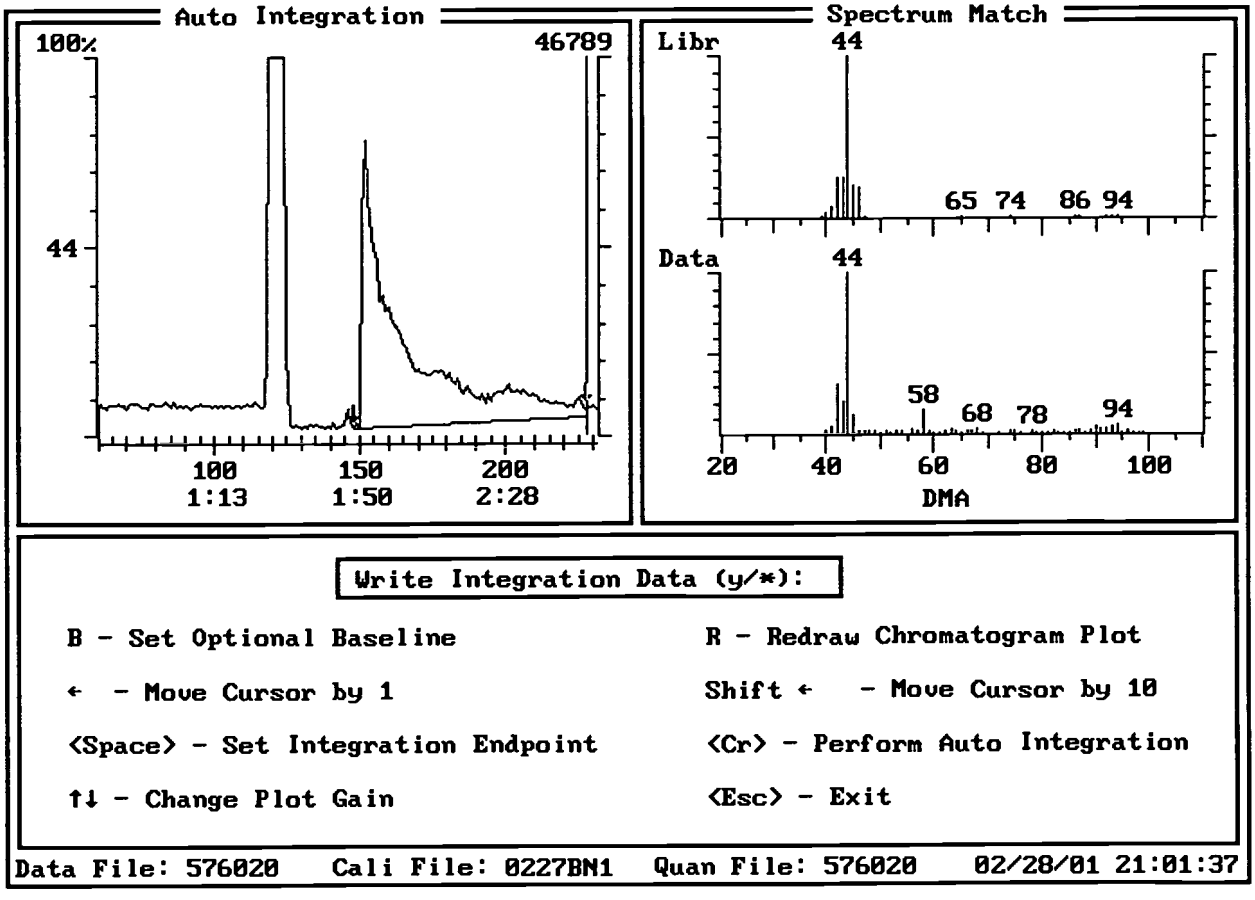
Quantitation Report Quan File: 576020 Cali File: 0227BN1 Entries: 1

Comment: 576020-DK27140.

Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:52	522,490	28.680	ug/L


Auto Integration
100%
46789
44
100
1:13
150
1:50
200
2:28
Spectrum Match
Libr
44
65 74 86 94
Data
44
58
69 83 93
20 40 60 80 100
DMA
No Compound/Standard Name Exp RT Thrsh Act RT Fit S/N Scan# Peak Area
1 DMA 1:50 600
integrating...
Single Step Option
<cr> - Write Peak Integration Data
M - Manually Integrate the Peak
↑↓ - Change Plot Gain
Data File: 576020 Cali File: 0227BN1 Quan File: 576020 02/28/01 21:01:37


Auto Integration
100%
46789
44
100
1:13
150
1:50
200
2:28
Spectrum Match
Libr
44
65 74 86 94
Data
44
58
68 78 94
20 40 60 80 100
DMA
Write Integration Data (y/*):
B - Set Optional Baseline
R - Redraw Chromatogram Plot
← - Move Cursor by 1
Shift ← - Move Cursor by 10
<Space> - Set Integration Endpoint
<Cr> - Perform Auto Integration
↑↓ - Change Plot Gain
<Esc> - Exit
Data File: 576020 Cali File: 0227BN1 Quan File: 576020 02/28/01 21:01:37

DMA
CONTINUING CALIBRATION CHECK

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Acq. File: BN022801
Contract: BAA 97-044
Task: SAS
Data Directory: BN\022801
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Instrument ID: GC/MS - BN
CCC Data File: CCC-100
Method: EHL Amines

All concentrations are in ug/L

Compound	Target Conc	Observed Conc	Percent Recovery	Acceptance Limits	P / F	Q
DMA	100.0	125	125	70 - 130	Pass	

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

DMA
CONTINUING CALIBRATION CHECK

Lab Name: Environmental Health Laboratories
Contract: BAA 97-044
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
CCC Data File: CCC-100B

Lab ID: unknown
Task: SAS
Case: n/a
Method: EHL Amines

Acq. File: BN022801
Data Directory: BN\022801
Instrument ID: GC/MS - BN

All concentrations are in ug/L

Compound	Target Conc	Observed Conc	Percent Recovery	Acceptance Limits	P / F	Q
DMA	100.0	186	186	70 - 130	Fail	*

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

DMA
CONTINUING CALIBRATION CHECK

Lab Name: Environmental Health Laboratories
Contract: BAA 97-044
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
CCC Data File: CCC-100C

Lab ID: unknown
Task: SAS
Case: n/a
Method: EHL Amines

Acq. File: BN022801
Data Directory: BN\022801
Instrument ID: GC/MS - BN

All concentrations are in ug/L

Compound	Target Conc	Observed Conc	Percent Recovery	Acceptance Limits	P / F	Q
DMA	100.0	173	173	70 - 130%	Fail	*

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

DMA
DATA SHEET

Lab Name: Environmental Health Laboratories
Contract: BAA 97-044
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Matrix Code: SW
Data File/Smpl ID: 576015
Data File/Dupl ID:
Sample Number/Description: DK 27139

Lab ID: unknown
Task: SAS
Case: n/a
Method: EHL Amines

Acq. File: BN022801
Data Directory: BN\022801
Instrument ID: GC/MS - BN
Date Received: 02/17/01
Date Analyzed: 02/28/01

Compound	Sample Concentration	Units
DMA	**30000**	ug/L

Duplicate Concentration	Units	Q

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

DMA
DATA SHEET

Lab Name: Environmental Health Laboratories
Contract: BAA 97-044
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Matrix Code: SW
Data File/Smpl ID: 576028
Data File/Dupl ID:
Sample Number/Description: DK 27151

Lab ID: unknown
Task: SAS
Case: n/a
Method: EHL Amines

Acq. File: BN022801
Data Directory: BN\022801
Instrument ID: GC/MS - BN
Date Received: 02/17/01
Date Analyzed: 02/28/01

Compound	Sample Concentration	Units
DMA	< 25	ug/L

Duplicate Concentration	Units	Q

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

DMA
DATA SHEET

Lab Name: Environmental Health Laboratories
Contract: BAA 97-044
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Matrix Code: SW
Data File/Smpl ID: 576034
Data File/Dupl ID:
Sample Number/Description: DK 27152

Lab ID: unknown
Task: SAS
Case: n/a
Method: EHL Amines

Acq. File: BN022801
Data Directory: BN\022801
Instrument ID: GC/MS - BN
Date Received: 02/17/01
Date Analyzed: 02/28/01

Compound	Sample Concentration	Units
DMA	< 25	ug/L

Duplicate Concentration	Units	Q

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

DMA
DATA SHEET

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Acq. File: BN022801
Contract: BAA 97-044
Task: SAS
Data Directory: BN\022801
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Instrument ID: GC/MS - BN
Matrix Code: SW
Method: EHL Amines
Date Received: 02/17/01
Data File/Smpl ID: 576040
Date Analyzed: 02/28/01
Data File/Dupl ID:
Sample Number/Description: DK 27153

Compound	Sample Concentration	Units
DMA	< 25	ug/L

Duplicate Concentration	Units	Q

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

DMA
DATA SHEET

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Acq. File: BN022801
Contract: BAA 97-044
Task: SAS
Data Directory: BN\022801
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Instrument ID: GC/MS - BN
Matrix Code: SW
Method: EHL Amines
Date Received: 02/17/01
Data File/Smpl ID: 576046
Date Analyzed: 02/28/01
Data File/Dupl ID:
Sample Number/Description: DK 27154

Compound	Sample Concentration	Units
DMA	< 25	ug/L

Duplicate Concentration	Units	Q

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

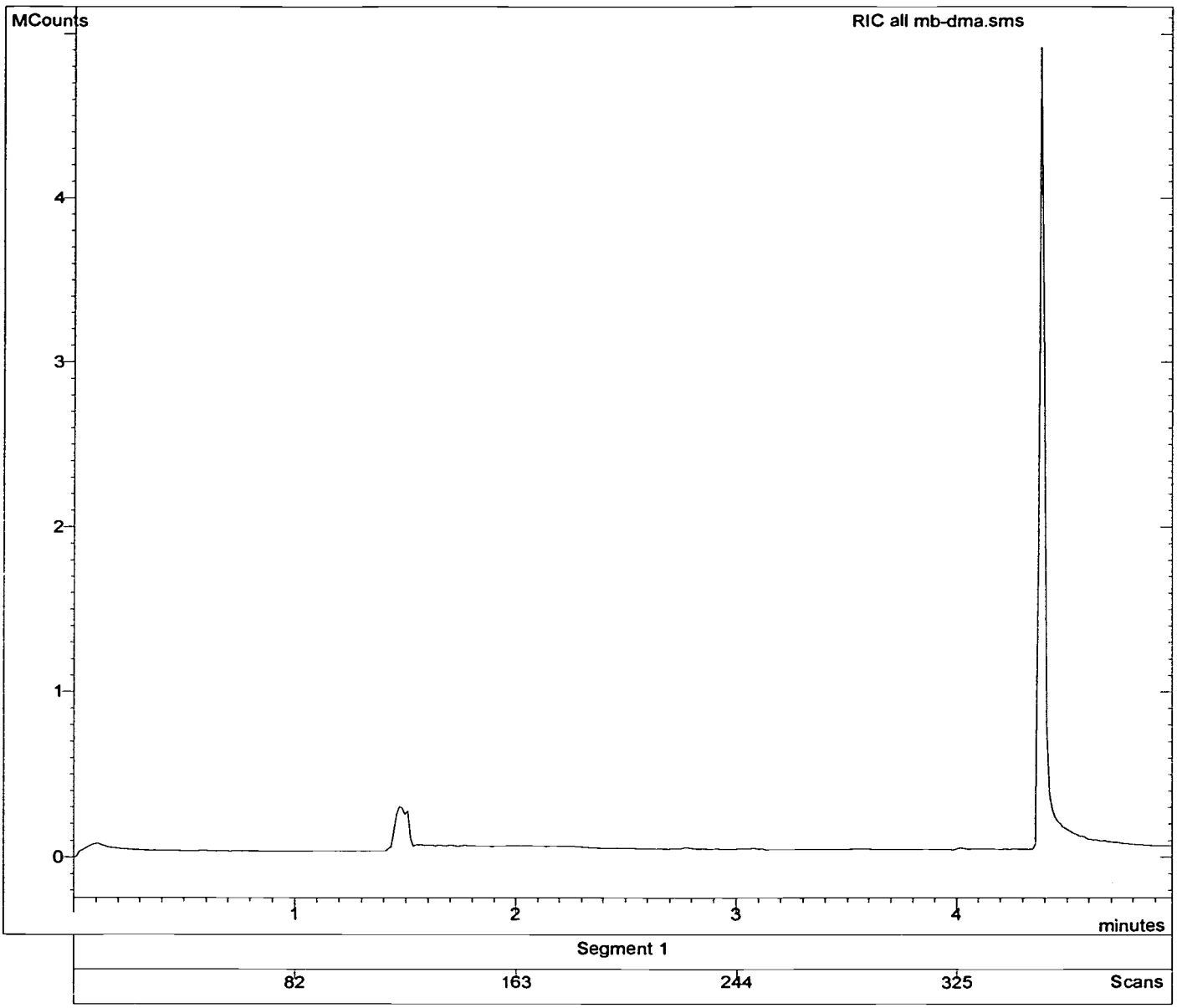
Print Date: 01 Mar 2001 16:01:13

Log of File: MB-DMA.SMS

000570

File: c:\bn\022801a\mb-dma.sms
Sample: MB-DMA
Scan Range: 1 - 404 Time Range: 0.00 - 4.98 min.
Sample Notes: LMB FOR DMA ANALYSIS, 2-28-01.

Operator:
Date: 2/28/01 8:24 AM



Acquisition Segment Information

Segment	Time Range (min)	Scan Range	Ionization Mode	Ion Preparation	Scan Channels
1	0.000 to 4.976	1 to 404	EI Auto	None	1

MODULE ATTRIBUTES Printed: 3/1/01 4:01 PM
Module: Saturn 2000.40

Saturn GC/MS Workstation Version 5.51

Module Software Version:	FF0E
Module Option Keys:	EI SIS MS/MS

Setpoints

Trap Temperature:	200 degrees C
Manifold Temperature:	60 degrees C
Transfer Line Temperature:	200 degrees C
Filament Number:	1
Axial Modulation Voltage:	4.2 volts

Log of File: MB-DMA.SMS - Page 2

Air/Water Check

Last Checked:	12/13/00 9:21 AM
Air Level Test Result:	OK
Water Level Test Result:	OK
Mass 28 Peak Width:	0.8 m/z
Mass 19 to Mass 18 Ratio:	2.1%
Total Ion Count:	755 counts

Integrator Zero Set

Last Executed:	12/26/00 7:44 AM
Integrator Zero Set Result:	OK
DAC Setpoint:	124 DACs
Average Counts:	0.5 counts

Electron Multiplier Set

10^5 Gain Last Executed:	12/26/00 7:50 AM
10^5 Gain Value Set Result:	OK
10^5 Gain Value:	1350 volts
Final Gain Value Last Changed:	12/26/00 7:49 AM
Final Gain Value Set Result:	Marginal
Final Gain Value:	1650 volts

RF Full Scale Adjust

Last Executed:	2/16/01 2:32 PM
RF Full Scale Adjust Result:	OK
DAC Setpoint:	161 DACs
Calibration Ion Used:	614 m/z

Mass Calibration

Last Executed:	2/16/01 2:34 PM
Mass Calibration Method:	FC-43
Mass Calibration Result:	OK

Ion Mass	Apex DAC Location	Ion Intensity
28	173.3	3962
69	430.2	1651
131	820.1	670
264	1658.1	517
414	2604.2	175
464	2919.5	23
502	3158.7	119
614	3865.9	19

Average Calibration Slope:	6.255 DAC/m/z
Standard Deviation:	0.058

Trap Function Calibration

Last Executed:	2/16/01 2:36 PM
Trap Function Calibration Result:	OK
Mass 69 Frequency:	260.500 kHz
Mass 131 Frequency:	257.900 kHz

SIS Calibration

Last Set:	12/14/00 3:50 PM
SIS Calibration Set Result:	Specified By User
Amplitude Adjust Factor:	125%

Calibration Gas Adjust

Last Checked:	2/19/01 12:39 PM
Cal Gas Adjust Result:	OK
Ionization Time:	604 uSeconds
Total Ion Count:	3901 counts

CI Gas Adjust

Last Checked:	No Record
CI Gas Adjust Result:	INCOMPLETE
Reagent:	Methane
Ionization Time:	0 uSeconds
Total Ion Count:	0 counts

RF Tuning Adjust

Last Checked:	1/23/01 3:34 PM
RF Adjust Result:	OK
Highest Count:	851 counts
Average Count:	378 counts

Mass To Start DAC Table [(Mass)DACs]

Log of File: MB-DMA.SMS - Page 3

(0)	0.0	(1)	3.1	(2)	9.3	(3)	15.5	(4)	21.7	(5)	27.8
(6)	34.0	(7)	40.2	(8)	46.4	(9)	52.6	(10)	58.8	(11)	65.0
(12)	71.1	(13)	77.3	(14)	83.5	(15)	89.7	(16)	95.9	(17)	102.1
(18)	108.3	(19)	114.4	(20)	120.6	(21)	126.8	(22)	133.0	(23)	139.2
(24)	145.4	(25)	151.5	(26)	157.7	(27)	163.9	(28)	170.1	(29)	176.4
(30)	182.6	(31)	188.9	(32)	195.2	(33)	201.4	(34)	207.7	(35)	214.0
(36)	220.2	(37)	226.5	(38)	232.8	(39)	239.0	(40)	245.3	(41)	251.6
(42)	257.8	(43)	264.1	(44)	270.4	(45)	276.6	(46)	282.9	(47)	289.2
(48)	295.4	(49)	301.7	(50)	308.0	(51)	314.2	(52)	320.5	(53)	326.8
(54)	333.0	(55)	339.3	(56)	345.6	(57)	351.8	(58)	358.1	(59)	364.3
(60)	370.6	(61)	376.9	(62)	383.1	(63)	389.4	(64)	395.7	(65)	401.9
(66)	408.2	(67)	414.5	(68)	420.7	(69)	427.0	(70)	433.3	(71)	439.6
(72)	445.9	(73)	452.2	(74)	458.5	(75)	464.7	(76)	471.0	(77)	477.3
(78)	483.6	(79)	489.9	(80)	496.2	(81)	502.5	(82)	508.8	(83)	515.1
(84)	521.3	(85)	527.6	(86)	533.9	(87)	540.2	(88)	546.5	(89)	552.8
(90)	559.1	(91)	565.4	(92)	571.7	(93)	577.9	(94)	584.2	(95)	590.5
(96)	596.8	(97)	603.1	(98)	609.4	(99)	615.7	(100)	622.0	(101)	628.3
(102)	634.5	(103)	640.8	(104)	647.1	(105)	653.4	(106)	659.7	(107)	666.0
(108)	672.3	(109)	678.6	(110)	684.8	(111)	691.1	(112)	697.4	(113)	703.7
(114)	710.0	(115)	716.3	(116)	722.6	(117)	728.9	(118)	735.2	(119)	741.4
(120)	747.7	(121)	754.0	(122)	760.3	(123)	766.6	(124)	772.9	(125)	779.2
(126)	785.5	(127)	791.8	(128)	798.0	(129)	804.3	(130)	810.6	(131)	816.9
(132)	823.2	(133)	829.5	(134)	835.8	(135)	842.1	(136)	848.4	(137)	854.7
(138)	861.0	(139)	867.3	(140)	873.6	(141)	879.9	(142)	886.2	(143)	892.5
(144)	898.8	(145)	905.1	(146)	911.4	(147)	917.7	(148)	924.0	(149)	930.3
(150)	936.6	(151)	942.9	(152)	949.2	(153)	955.5	(154)	961.8	(155)	968.1
(156)	974.4	(157)	980.7	(158)	987.0	(159)	993.3	(160)	999.6	(161)	1005.9
(162)	1012.2	(163)	1018.5	(164)	1024.8	(165)	1031.1	(166)	1037.4	(167)	1043.7
(168)	1050.0	(169)	1056.3	(170)	1062.6	(171)	1068.9	(172)	1075.2	(173)	1081.6
(174)	1087.9	(175)	1094.2	(176)	1100.5	(177)	1106.8	(178)	1113.1	(179)	1119.4
(180)	1125.7	(181)	1132.0	(182)	1138.3	(183)	1144.6	(184)	1150.9	(185)	1157.2
(186)	1163.5	(187)	1169.8	(188)	1176.1	(189)	1182.4	(190)	1188.7	(191)	1195.0
(192)	1201.3	(193)	1207.6	(194)	1213.9	(195)	1220.2	(196)	1226.5	(197)	1232.8
(198)	1239.1	(199)	1245.4	(200)	1251.7	(201)	1258.0	(202)	1264.3	(203)	1270.6
(204)	1276.9	(205)	1283.2	(206)	1289.5	(207)	1295.8	(208)	1302.1	(209)	1308.4
(210)	1314.7	(211)	1321.0	(212)	1327.3	(213)	1333.6	(214)	1339.9	(215)	1346.2
(216)	1352.5	(217)	1358.8	(218)	1365.1	(219)	1371.4	(220)	1377.7	(221)	1384.0
(222)	1390.3	(223)	1396.6	(224)	1402.9	(225)	1409.2	(226)	1415.5	(227)	1421.8
(228)	1428.1	(229)	1434.4	(230)	1440.7	(231)	1447.0	(232)	1453.3	(233)	1459.6
(234)	1465.9	(235)	1472.2	(236)	1478.5	(237)	1484.8	(238)	1491.1	(239)	1497.4
(240)	1503.7	(241)	1510.0	(242)	1516.3	(243)	1522.6	(244)	1528.9	(245)	1535.2
(246)	1541.5	(247)	1547.8	(248)	1554.1	(249)	1560.4	(250)	1566.7	(251)	1573.0
(252)	1579.3	(253)	1585.6	(254)	1591.9	(255)	1598.2	(256)	1604.5	(257)	1610.8
(258)	1617.1	(259)	1623.4	(260)	1629.7	(261)	1636.0	(262)	1642.3	(263)	1648.6
(264)	1654.9	(265)	1661.2	(266)	1667.5	(267)	1673.8	(268)	1680.2	(269)	1686.5
(270)	1692.8	(271)	1699.1	(272)	1705.4	(273)	1711.7	(274)	1718.0	(275)	1724.3
(276)	1730.6	(277)	1736.9	(278)	1743.2	(279)	1749.5	(280)	1755.8	(281)	1762.2
(282)	1768.5	(283)	1774.8	(284)	1781.1	(285)	1787.4	(286)	1793.7	(287)	1800.0
(288)	1806.3	(289)	1812.6	(290)	1818.9	(291)	1825.2	(292)	1831.5	(293)	1837.8
(294)	1844.2	(295)	1850.5	(296)	1856.8	(297)	1863.1	(298)	1869.4	(299)	1875.7
(300)	1882.0	(301)	1888.3	(302)	1894.6	(303)	1900.9	(304)	1907.2	(305)	1913.5
(306)	1919.8	(307)	1926.1	(308)	1932.5	(309)	1938.8	(310)	1945.1	(311)	1951.4
(312)	1957.7	(313)	1964.0	(314)	1970.3	(315)	1976.6	(316)	1982.9	(317)	1989.2
(318)	1995.5	(319)	2001.8	(320)	2008.1	(321)	2014.5	(322)	2020.8	(323)	2027.1
(324)	2033.4	(325)	2039.7	(326)	2046.0	(327)	2052.3	(328)	2058.6	(329)	2064.9
(330)	2071.2	(331)	2077.5	(332)	2083.8	(333)	2090.1	(334)	2096.4	(335)	2102.8
(336)	2109.1	(337)	2115.4	(338)	2121.7	(339)	2128.0	(340)	2134.3	(341)	2140.6
(342)	2146.9	(343)	2153.2	(344)	2159.5	(345)	2165.8	(346)	2172.1	(347)	2178.4
(348)	2184.8	(349)	2191.1	(350)	2197.4	(351)	2203.7	(352)	2210.0	(353)	2216.3
(354)	2222.6	(355)	2228.9	(356)	2235.2	(357)	2241.5	(358)	2247.8	(359)	2254.1
(360)	2260.4	(361)	2266.7	(362)	2273.1	(363)	2279.4	(364)	2285.7	(365)	2292.0
(366)	2298.3	(367)	2304.6	(368)	2310.9	(369)	2317.2	(370)	2323.5	(371)	2329.8
(372)	2336.1	(373)	2342.4	(374)	2348.7	(375)	2355.1	(376)	2361.4	(377)	2367.7
(378)	2374.0	(379)	2380.3	(380)	2386.6	(381)	2392.9	(382)	2399.2	(383)	2405.5
(384)	2411.8	(385)	2418.1	(386)	2424.4	(387)	2430.7	(388)	2437.0	(389)	2443.4
(390)	2449.7	(391)	2456.0	(392)	2462.3	(393)	2468.6	(394)	2474.9	(395)	2481.2
(396)	2487.5	(397)	2493.8	(398)	2500.1	(399)	2506.4	(400)	2512.7	(401)	2519.0

Log of File: MB-DMA.SMS - Page 4

(402)2525.4	(403)2531.7	(404)2538.0	(405)2544.3	(406)2550.6	(407)2556.9
(408)2563.2	(409)2569.5	(410)2575.8	(411)2582.1	(412)2588.4	(413)2594.7
(414)2601.0	(415)2607.3	(416)2613.7	(417)2620.0	(418)2626.3	(419)2632.6
(420)2638.9	(421)2645.2	(422)2651.5	(423)2657.8	(424)2664.1	(425)2670.4
(426)2676.7	(427)2683.0	(428)2689.3	(429)2695.6	(430)2701.9	(431)2708.2
(432)2714.6	(433)2720.9	(434)2727.2	(435)2733.5	(436)2739.8	(437)2746.1
(438)2752.4	(439)2758.7	(440)2765.0	(441)2771.3	(442)2777.6	(443)2783.9
(444)2790.2	(445)2796.5	(446)2802.8	(447)2809.1	(448)2815.4	(449)2821.8
(450)2828.1	(451)2834.4	(452)2840.7	(453)2847.0	(454)2853.3	(455)2859.6
(456)2865.9	(457)2872.2	(458)2878.5	(459)2884.8	(460)2891.1	(461)2897.4
(462)2903.7	(463)2910.0	(464)2916.3	(465)2922.6	(466)2928.9	(467)2935.2
(468)2941.5	(469)2947.8	(470)2954.1	(471)2960.4	(472)2966.7	(473)2973.0
(474)2979.3	(475)2985.6	(476)2991.9	(477)2998.2	(478)3004.5	(479)3010.8
(480)3017.1	(481)3023.4	(482)3029.7	(483)3035.9	(484)3042.2	(485)3048.5
(486)3054.8	(487)3061.1	(488)3067.4	(489)3073.7	(490)3080.0	(491)3086.3
(492)3092.6	(493)3098.9	(494)3105.2	(495)3111.5	(496)3117.8	(497)3124.1
(498)3130.4	(499)3136.7	(500)3143.0	(501)3149.3	(502)3155.5	(503)3161.9
(504)3168.2	(505)3174.5	(506)3180.8	(507)3187.1	(508)3193.4	(509)3199.8
(510)3206.1	(511)3212.4	(512)3218.7	(513)3225.0	(514)3231.3	(515)3237.6
(516)3244.0	(517)3250.3	(518)3256.6	(519)3262.9	(520)3269.2	(521)3275.5
(522)3281.8	(523)3288.2	(524)3294.5	(525)3300.8	(526)3307.1	(527)3313.4
(528)3319.7	(529)3326.0	(530)3332.4	(531)3338.7	(532)3345.0	(533)3351.3
(534)3357.6	(535)3363.9	(536)3370.2	(537)3376.6	(538)3382.9	(539)3389.2
(540)3395.5	(541)3401.8	(542)3408.1	(543)3414.4	(544)3420.8	(545)3427.1
(546)3433.4	(547)3439.7	(548)3446.0	(549)3452.3	(550)3458.6	(551)3465.0
(552)3471.3	(553)3477.6	(554)3483.9	(555)3490.2	(556)3496.5	(557)3502.8
(558)3509.2	(559)3515.5	(560)3521.8	(561)3528.1	(562)3534.4	(563)3540.7
(564)3547.0	(565)3553.4	(566)3559.7	(567)3566.0	(568)3572.3	(569)3578.6
(570)3584.9	(571)3591.2	(572)3597.6	(573)3603.9	(574)3610.2	(575)3616.5
(576)3622.8	(577)3629.1	(578)3635.4	(579)3641.8	(580)3648.1	(581)3654.4
(582)3660.7	(583)3667.0	(584)3673.3	(585)3679.6	(586)3686.0	(587)3692.3
(588)3698.6	(589)3704.9	(590)3711.2	(591)3717.5	(592)3723.8	(593)3730.2
(594)3736.5	(595)3742.8	(596)3749.1	(597)3755.4	(598)3761.7	(599)3768.0
(600)3774.4	(601)3780.7	(602)3787.0	(603)3793.3	(604)3799.6	(605)3805.9
(606)3812.2	(607)3818.6	(608)3824.9	(609)3831.2	(610)3837.5	(611)3843.8
(612)3850.1	(613)3856.4	(614)3862.8	(615)3869.0	(616)3875.3	(617)3881.6
(618)3887.9	(619)3894.1	(620)3900.4	(621)3906.7	(622)3913.0	(623)3919.3
(624)3925.5	(625)3931.8	(626)3938.1	(627)3944.4	(628)3950.7	(629)3956.9
(630)3963.2	(631)3969.5	(632)3975.8	(633)3982.0	(634)3988.3	(635)3994.6
(636)4000.9	(637)4007.2	(638)4013.4	(639)4019.7	(640)4026.0	(641)4032.3
(642)4038.5	(643)4044.8	(644)4051.1	(645)4057.4	(646)4063.7	(647)4069.9
(648)4076.2	(649)4082.5	(650)4088.8			

ACQUISITION EVENT LOG Printed: 03/01/01 04:01:08PM
Module: Saturn 2000.40

Pre-Acquisition Verification Tests

Pump Test:	Passed
Gate Off Voltage Test:	Passed
Gate On Voltage Test:	Passed
RF Voltage Test:	Passed
Axial Modulation Amplitude Test:	Passed
Trap Temperature Test:	Passed
Manifold Temperature Test:	Passed
Transfer Line Temperature Test:	Passed
Multiplier Voltage Test:	Passed
Filament Bias Voltage Test:	Passed
Selected Trap Filament Test:	Passed

Ion Gauge

Ion Gauge Filament Number:	1
Ion Gauge Reading:	14.1 uTorr

Air Flow Sampling

Number of Readings Taken:	None

Acquisition

Actual End Time:	5.00 minutes

Log of File: MB-DMA.SMS - Page 5

Segment Number 1:
Description: DMA

Last Modified: 2/27/01 8:24 AM

Emission Current:	20 microamps
Mass Defect:	0 mmu/100u
Count Threshold:	1 counts
Multiplier Offset:	150 volts
Cal Gas:	OFF
Scan Time:	0.750 seconds
Segment Start Time:	0.00 minutes
Segment End Time:	5.00 minutes
Segment Low Mass:	39 m/z
Segment High Mass:	100 m/z
Ionization Mode:	EI AGC
Ion Preparation Technique:	NONE

No Ion Preparation.

EI-Auto Mode:

Maximum Ionization Time: 25000 microseconds

	Mass Range	Ion. Storage Level	Ion. Time Factor
Scan Segment 1:	10 to 99	35.0 m/z	100%
Scan Segment 2:	100 to 249	35.0 m/z	100%
Scan Segment 3:	250 to 399	35.0 m/z	100%
Scan Segment 4:	400 to 650	35.0 m/z	100%

Target TIC:	10000 counts
Prescan Ionization Time:	100 microseconds
Background Mass:	38 m/z
RF Dump Value:	650.0 m/z

==========
Module 44 Information
==========
Module
Description = ?
Serial Number = ?
Date Installed = ?
Date Last Serviced = ?

****
3800 GC
****
Module Address: 44

Valve Table

Front Injector Type 1079

Oven Power:	On
Coolant:	On
Enable Coolant at:	250 C
Coolant Timeout:	20.00 min

Temp (C)	Rate (C/min)	Hold (min)	Total (min)
230	0	15.00	15.00
270	200	10.00	25.20

Log of File: MB-DMA.SMS - Page 6

Time (min)	Split State	Split Ratio
Initial	On	20
0.01	Off	Off
2.00	On	120

Front Injector EFC Type 1

Constant Column Flow: 1.0 ml/min
Pressure Pulse: none

Column Oven

Coolant: Off
Enable Coolant at: 50 C
Coolant Timeout: 20.00 min
Stabilization Time: 0.10 min

Temp (C)	Rate (C/min)	Hold (min)	Total (min)
50	0.0	1.00	1.00
90	10.0	1.00	6.00
260	15.0	8.00	25.33

Front ECD Detector

Oven Power: On
Temperature: 300 C
Electronics: On
Time Constant: Fast
Cell Current: CAP
Contact Potential: 50 mV

Time (min)	Range	Autozero
Initial	10	yes

Front Type 13 Detector EFC

Make up Flow: 15 ml/min

Output Port A

Time (min)	Signal Source	Attenuation
Initial	Front	1

Output Port B

Time (min)	Signal Source	Attenuation
Initial	Front	1

Output Port C

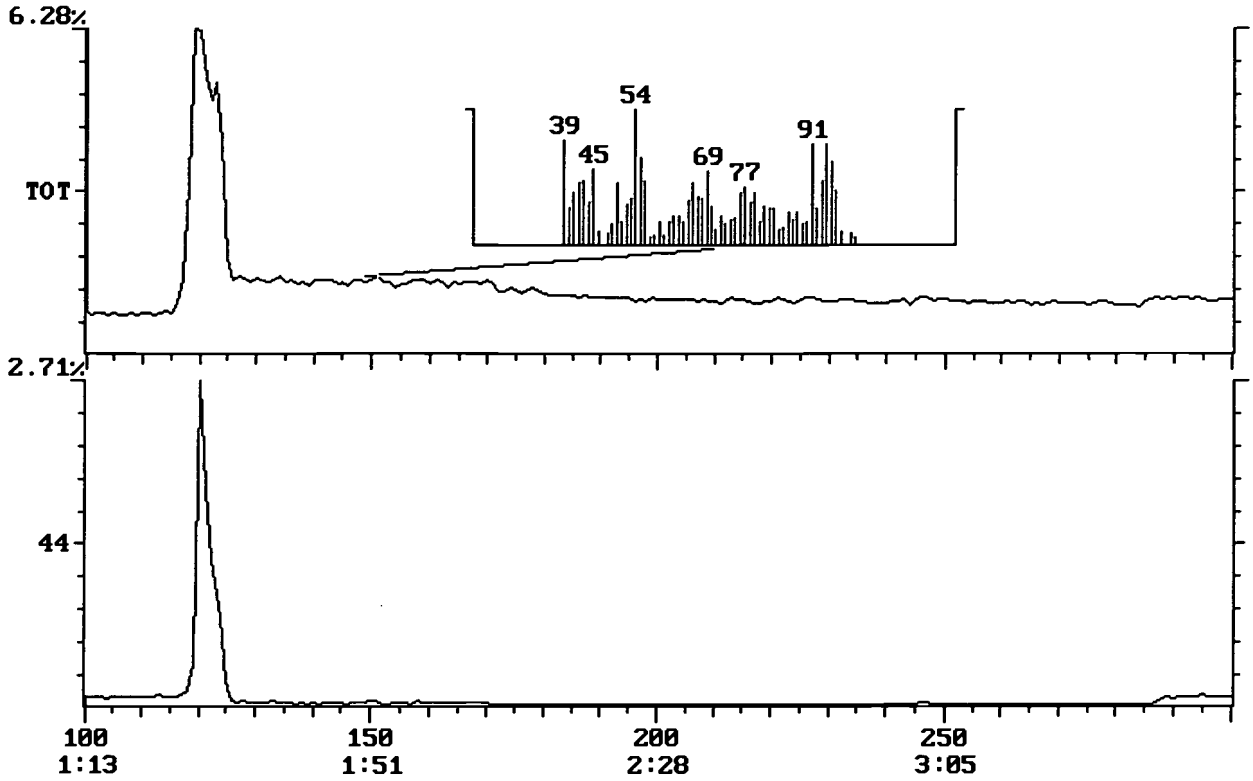
Time (min)	Signal Source	Attenuation
Initial	Front	1

****
3800 Runlog

Log of File: MB-DMA.SMS - Page 7

```
**********************
  0.00 min:  Column Oven Temperature: Setpoint 50 C
  0.00 min:   Front 1079 Injector Temperature: Setpoint 230 C
  0.00 min:   Front 1079 Injector Enable Coolant at: Setpoint 250 C
  0.00 min:   Front Injector EFC Type 1 Pressure:
             Setpoint   7.6 psi
  0.00 min:   Front Injector EFC Type 1 Split State: Setpoint On
  0.00 min:   Front Injector EFC Type 1 Split Ratio: Setpoint 20
  0.00 min:   Front ECD Temperature: Setpoint 300 C
  0.00 min:   Front ECD Range: Setpoint 10
  0.00 min:   Front ECD Time Constant: Setpoint Fast
  0.00 min:   Front ECD Cell Current: Setpoint CAP
  0.00 min:   Front ECD Contact Potential: Setpoint 50 mV
  0.00 min:  Output Port A Signal Source: Setpoint  Front
  0.00 min:  Output Port A Attenuation: Setpoint    1
  0.00 min:  Output Port B Signal Source: Setpoint  Front
  0.00 min:  Output Port B Attenuation: Setpoint    1
  0.00 min:  Output Port C Signal Source: Setpoint  Front
  0.00 min:  Output Port C Attenuation: Setpoint    1
  0.00 min:  Valve 1 Setpoint: Off
  0.00 min:  Valve 2 Setpoint: Off
  0.00 min:  Valve 3 Setpoint: Off
  0.00 min:  Valve 4 Setpoint: Off
  0.00 min:  Valve 5 Setpoint: Off
  0.00 min:  Valve 6 Setpoint: Off
  0.00 min:  Valve 7 Setpoint: Off
  0.01 min:   Front Injector EFC Type 1 Split State: Setpoint Off
  0.01 min:   Front Injector EFC Type 1 Split Ratio: Setpoint 100
  1.00 min:  Column Oven Temperature: Setpoint 90 C
  1.00 min:  Column Oven Ramp Rate: Setpoint  10.0 C/min
  1.00 min:   Front Injector EFC Type 1 Pressure:
             Setpoint   9.9 psi
  1.00 min:   Front Injector EFC Type 1 Ramp Rate:
             Setpoint   0.58 psi/min
  2.00 min:   Front Injector EFC Type 1 Split State: Setpoint On
  2.00 min:   Front Injector EFC Type 1 Split Ratio: Setpoint 120
```

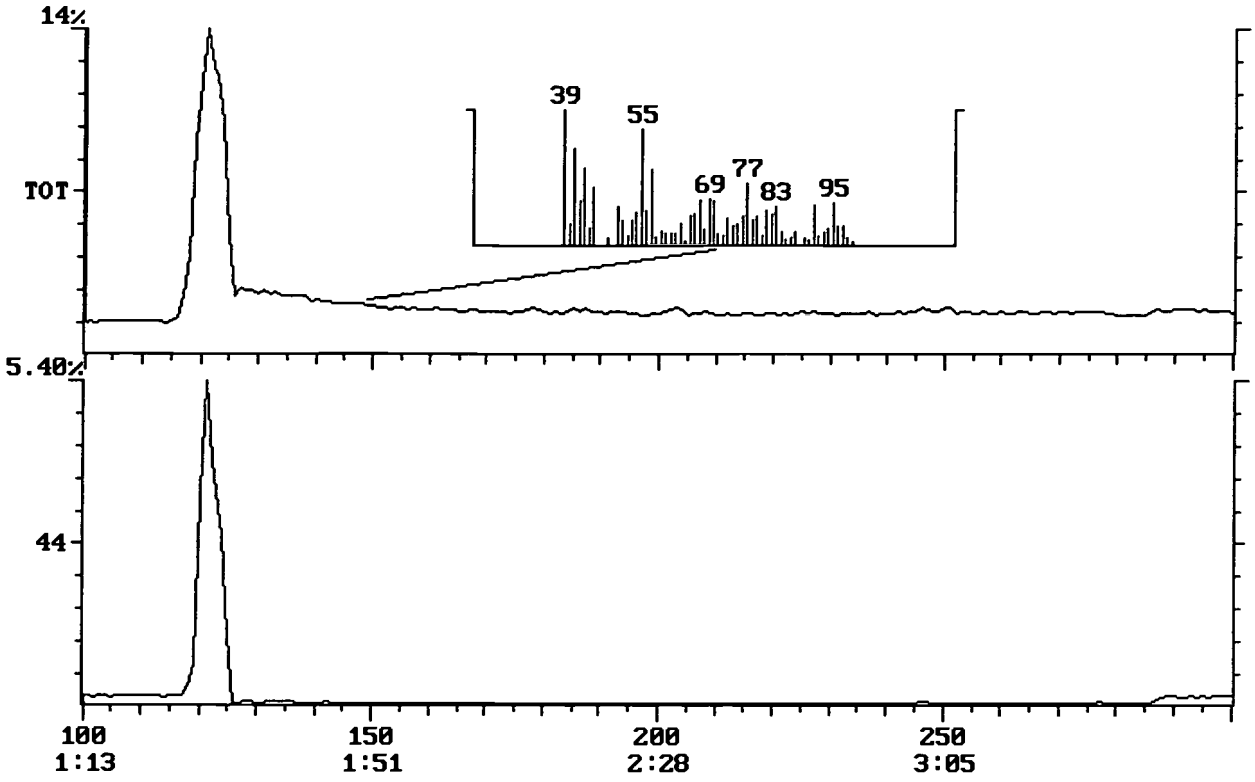
Chromatogram Plot C:\BN\022801A\576028 Date: 02/28/01 11:08:42
Comment: 576028 IDEM DK27151.
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 36176 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 4741397



Quantitation Report Quan File: 576028 Cali File: 0227BN1 Entries: 1
Comment: 576028 IDEM DK27151.
Sorted via: Entry Number ↑ IS Factor: 0.000 Mult: 0.000 Div: 0.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	?	?	?	ug/L

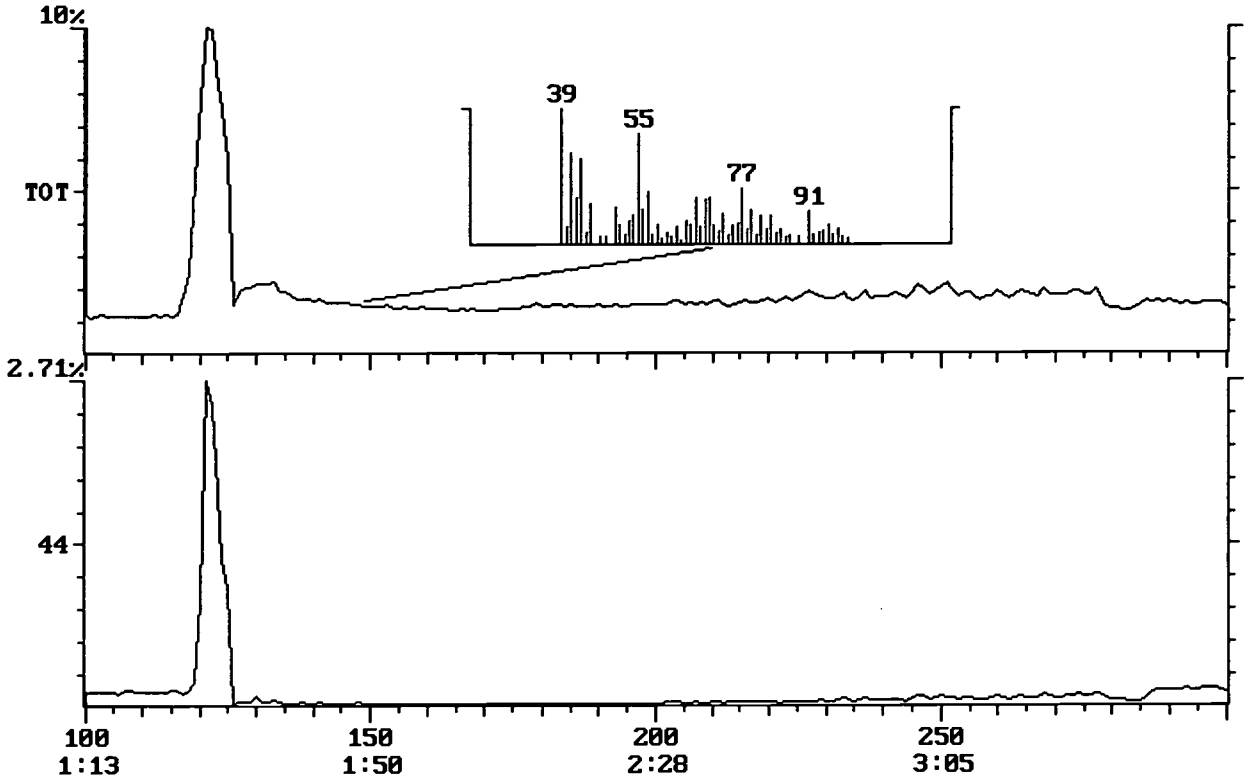
Chromatogram Plot C:\BN\022801A\576034 Date: 02/28/01 11:48:13
Comment: 576034-IDEM DK 27152.
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 35531 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 2627347



Quantitation Report Quan File: 576034 Cali File: 0227BN1 Entries: 1
Comment: 576034-IDEM DK 27152.
Sorted via: Entry Number ↑ IS Factor: 0.000 Mult: 0.000 Div: 0.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	?	?	?	ug/L

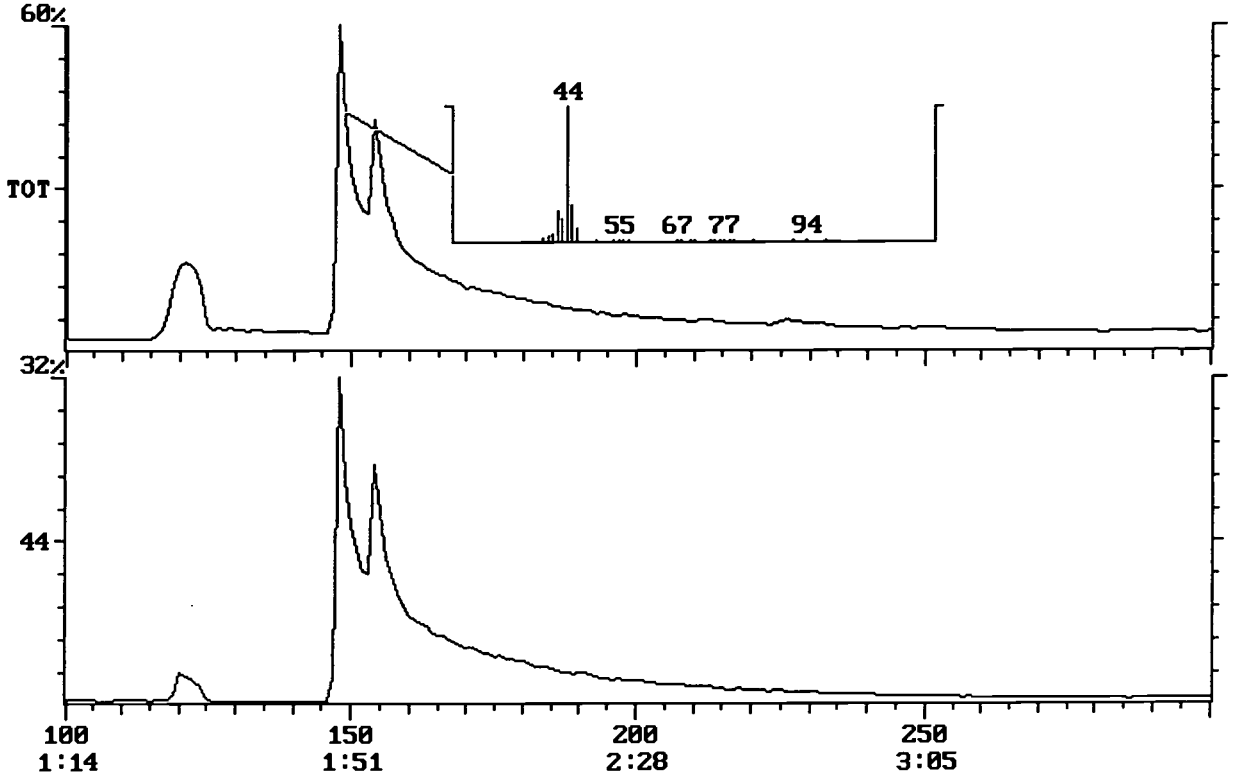
Chromatogram Plot C:\BN\022801A\576046 Date: 02/28/01 14:12:41
Comment: 576046- DK 27154
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 37536 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 3257942



Quantitation Report Quan File: 576046 Cali File: 0227BN1 Entries: 1
Comment: 576046- DK 27154
Sorted via: Entry Number ↑ IS Factor: 0.000 Mult: 0.000 Div: 0.000

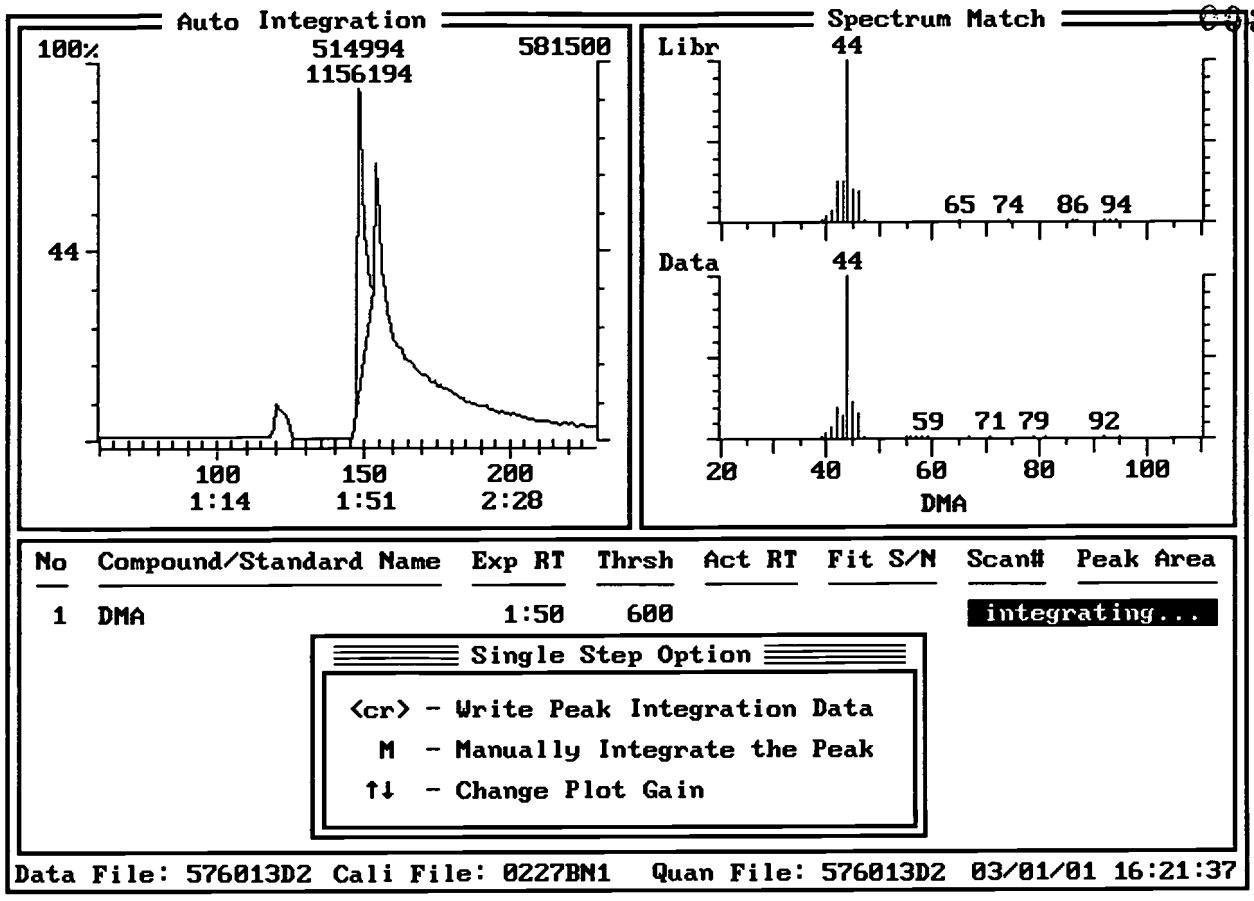
Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	?	?	?	ug/L

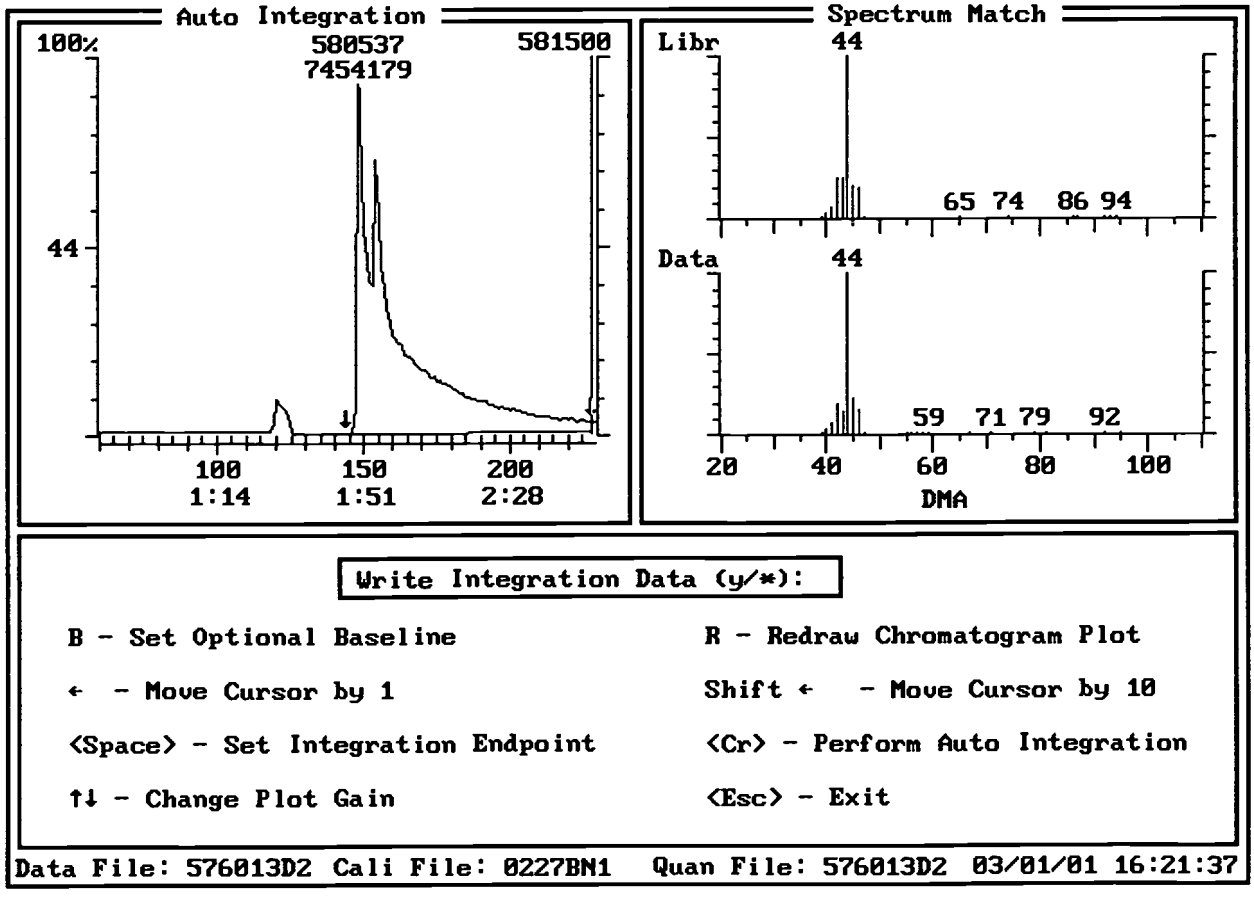
Chromatogram Plot C:\BN\022801A\576013D2 Date: 02/28/01 14:52:53
Comment: 1:100 DILUTION DK 27139.
Scan: 100 Seg: 1 Group: 0 Retention: 1:14 RIC: 36647 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 1836017



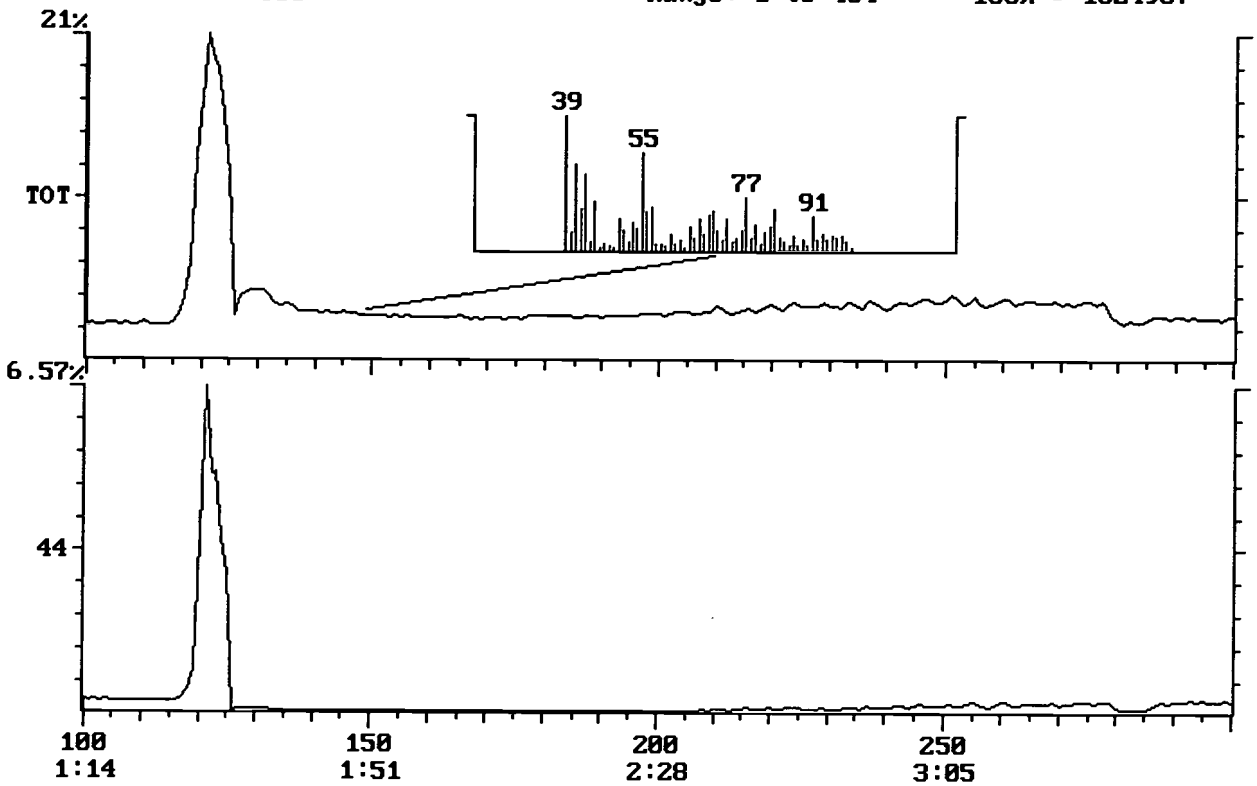
Quantitation Report Quan File: 576013D2 Cali File: 0227BN1 Entries: 1
Comment: 1:100 DILUTION DK 27139.
Sorted via: Entry Number ↑ IS Factor: 1.000 *Mult: 100.000 Div: 1.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:49	7,454,179	30344.323	ug/L


Auto Integration
100%
514994
1156194
581500
44
100
150
200
1:14
1:51
2:28
Spectrum Match
Libr
44
65 74 86 94
Data
44
59 71 79 92
20
40
60
80
100
DMA
No Compound/Standard Name Exp RT Thrsh Act RT Fit S/N Scan# Peak Area
1 DMA 1:50 600
integrating...
Single Step Option
<cr> - Write Peak Integration Data
M - Manually Integrate the Peak
↑↓ - Change Plot Gain
Data File: 576013D2 Cali File: 0227BN1 Quan File: 576013D2 03/01/01 16:21:37


Auto Integration
100%
580537
7454179
581500
44
100
150
200
1:14
1:51
2:28
Spectrum Match
Libr
44
65 74 86 94
Data
44
59 71 79 92
20
40
60
80
100
DMA
Write Integration Data (y/*):
B - Set Optional Baseline
R - Redraw Chromatogram Plot
← - Move Cursor by 1
Shift ← - Move Cursor by 10
<Space> - Set Integration Endpoint
<Cr> - Perform Auto Integration
↑↓ - Change Plot Gain
<Esc> - Exit
Data File: 576013D2 Cali File: 0227BN1 Quan File: 576013D2 03/01/01 16:21:37

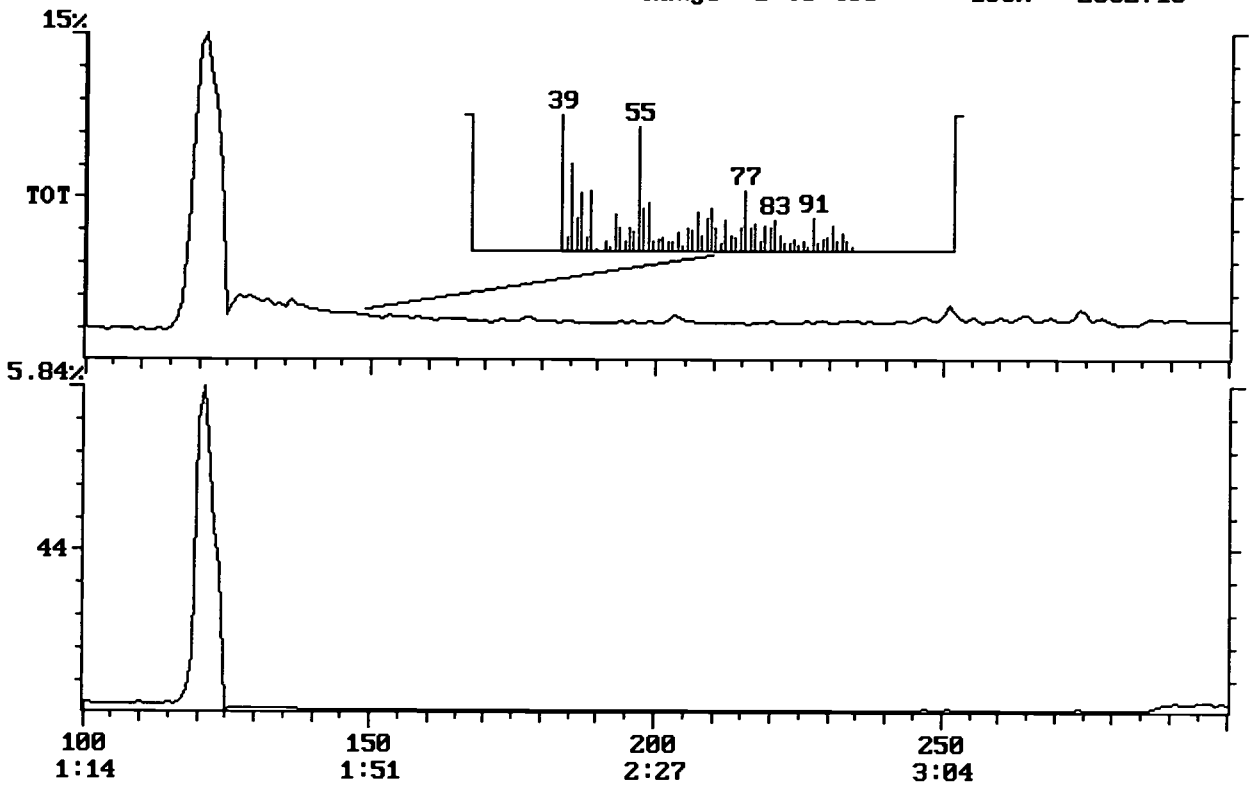
Chromatogram Plot C:\BN\022801A\576040 Date: 02/28/01 12:26:43
Comment: 576040-IDEM DK 27153.
Scan: 100 Seg: 1 Group: 0 Retention: 1:14 RIC: 36525 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 1624987



Quantitation Report Quan File: 576040 Cali File: 0227BN1 Entries: 1
Comment: 576040-IDEM DK 27153.
Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:22	1,458	5.944	ug/L

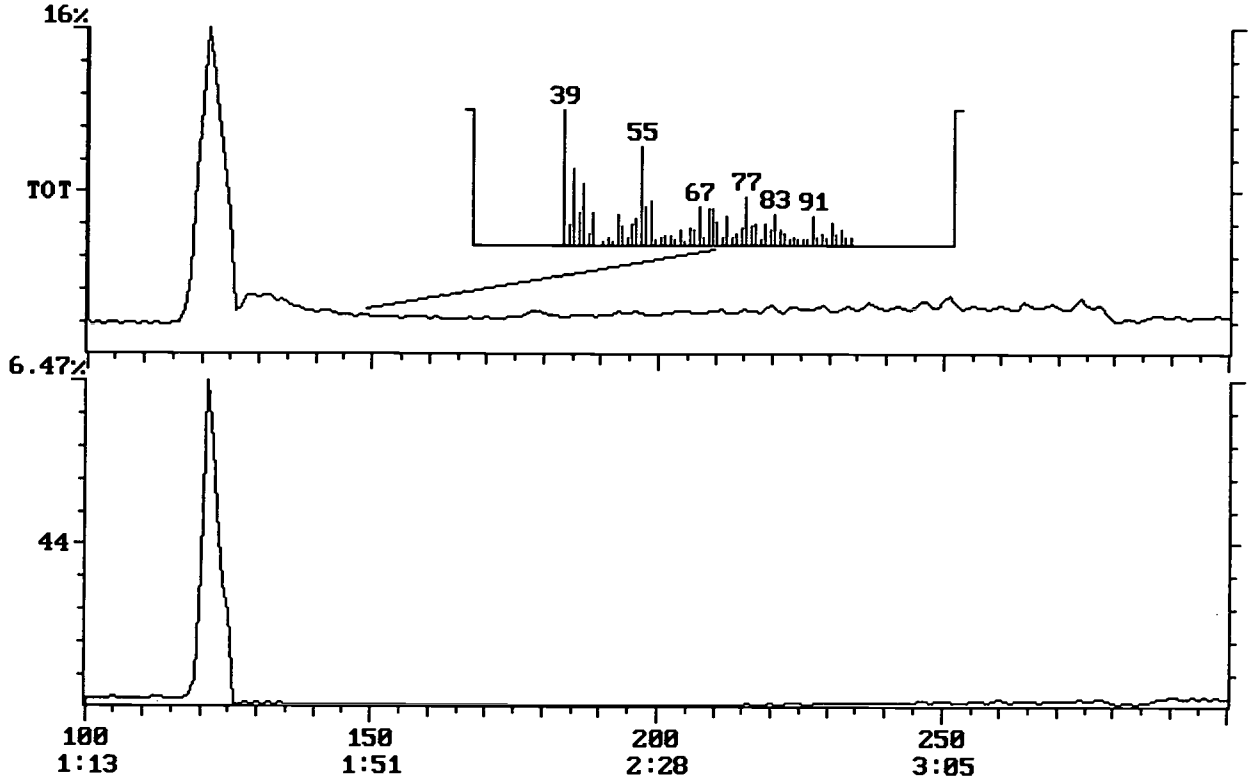
Chromatogram Plot C:\BN\022801A\574740 Date: 02/28/01 09:07:42
Comment: 574740-DK27116.
Scan: 100 Seg: 1 Group: 0 Retention: 1:14 RIC: 36152 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 405 100% = 2602716



Quantitation Report Quan File: 574740 Cali File: 0227BN1 Entries: 1
Comment: 574740-DK27116.
Sorted via: Entry Number ↑ IS Factor: 0.000 Mult: 0.000 Div: 0.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	?	?	?	ug/L

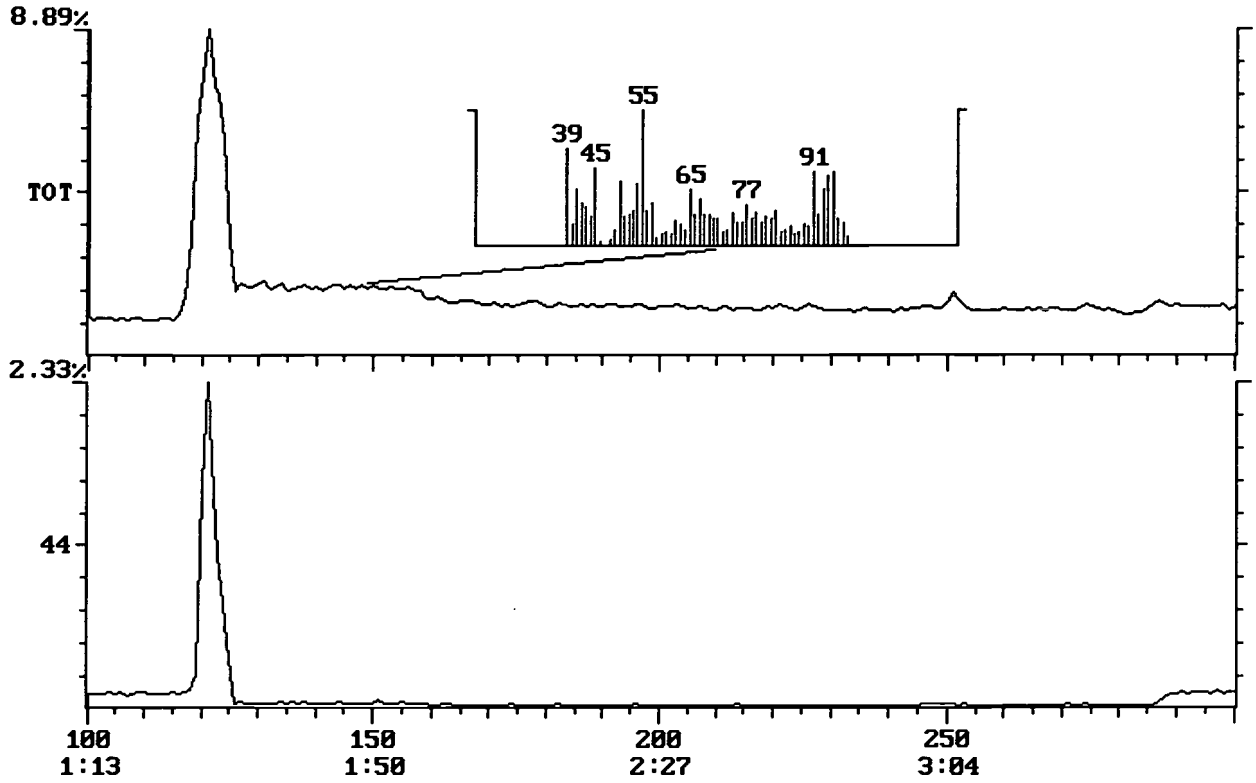
Chromatogram Plot C:\BN\022801A\574741 Date: 02/28/01 09:47:14
Comment: 574741-DK27117.
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 36853 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 2436829



Quantitation Report Quan File: 574741 Cali File: 0227BN1 Entries: 1
Comment: 574741-DK27117.
Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:23	1,871	5.962	ug/L

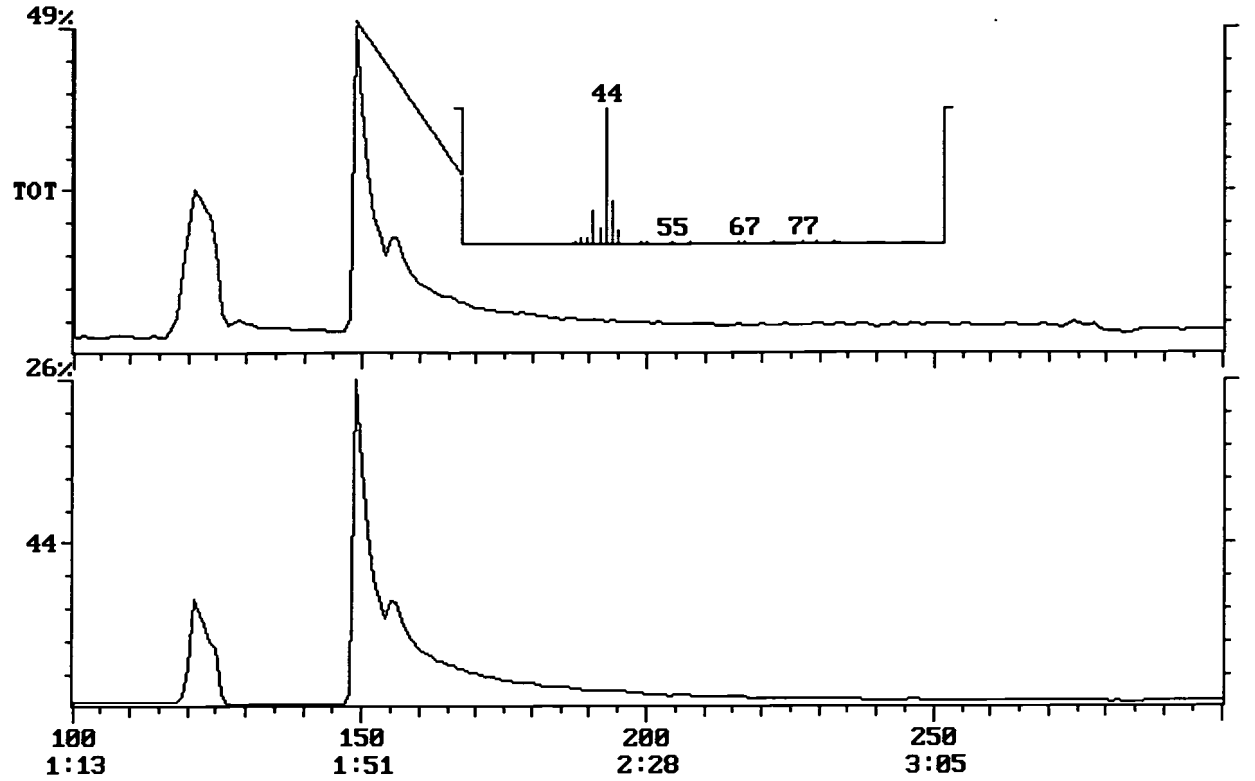
Chromatogram Plot C:\BN\022801A\574742 Date: 02/28/01 10:27:40
Comment: 574742-DK27118.
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 35133 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 3641250



Quantitation Report Quan File: 574742 Cali File: 0227BN1 Entries: 1
Comment: 574742-DK27118.
Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

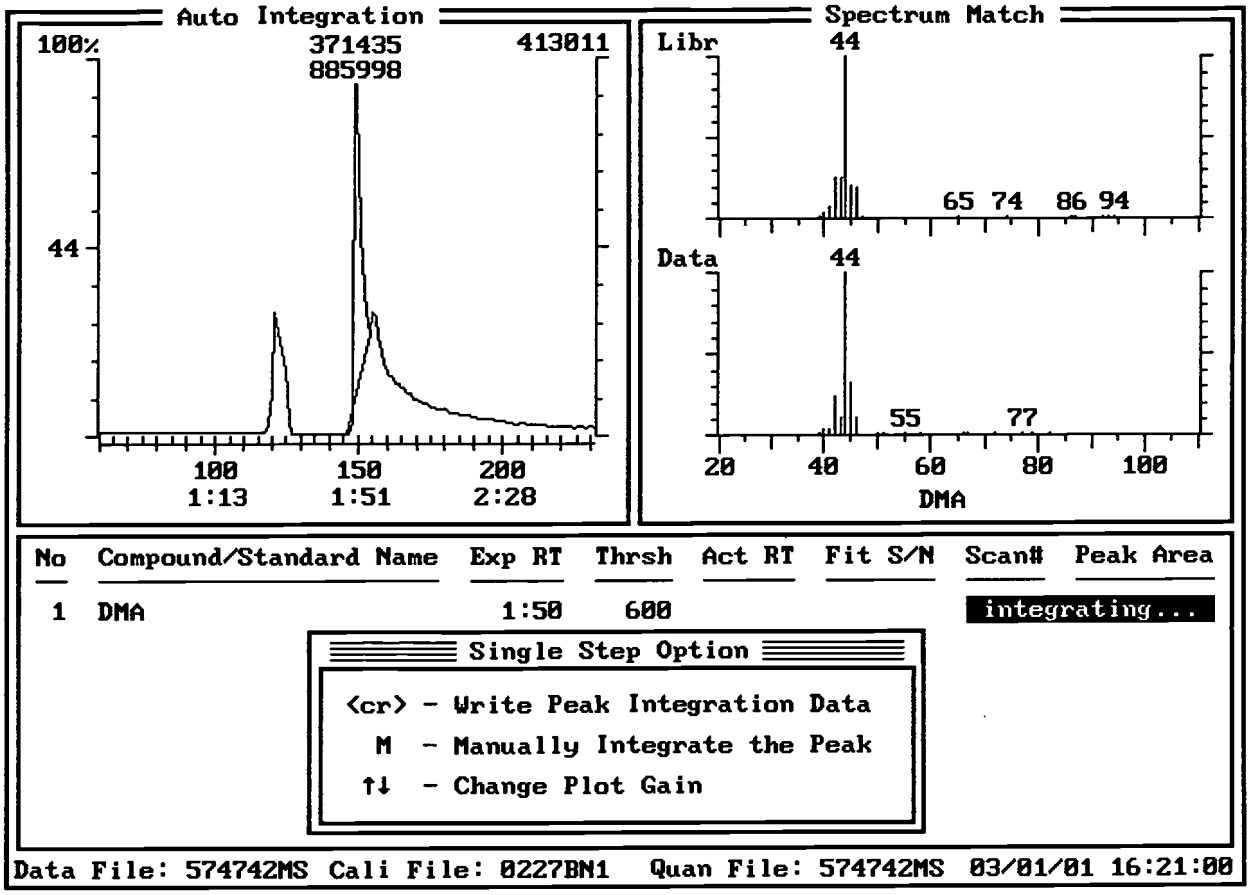
Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:24	157	5.887	ug/L

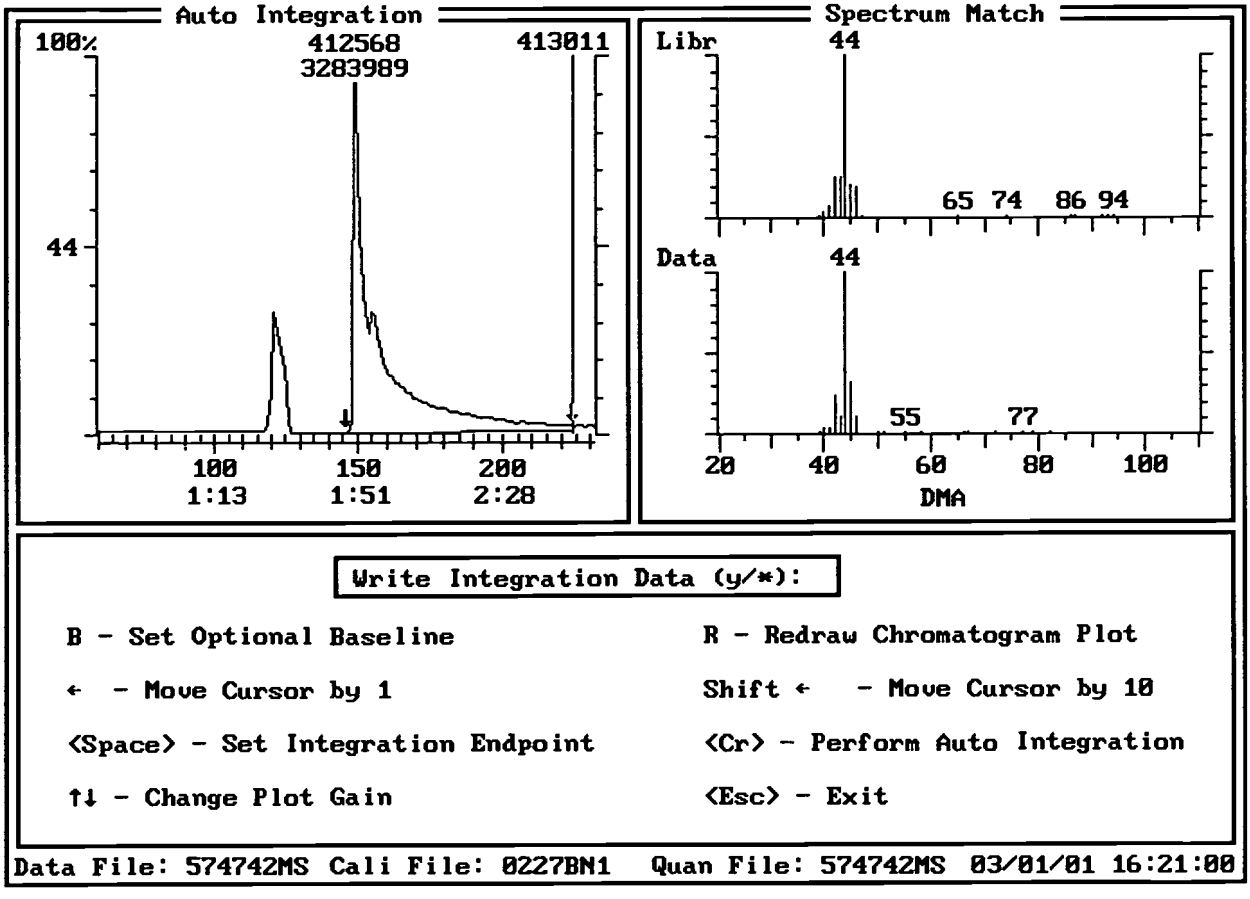
Chromatogram Plot C:\BN\022801A\574742MS Date: 02/28/01 15:37:05
Comment: 574742 MS 100 PPB SPIKE DK 27118.
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 37288 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 1591994



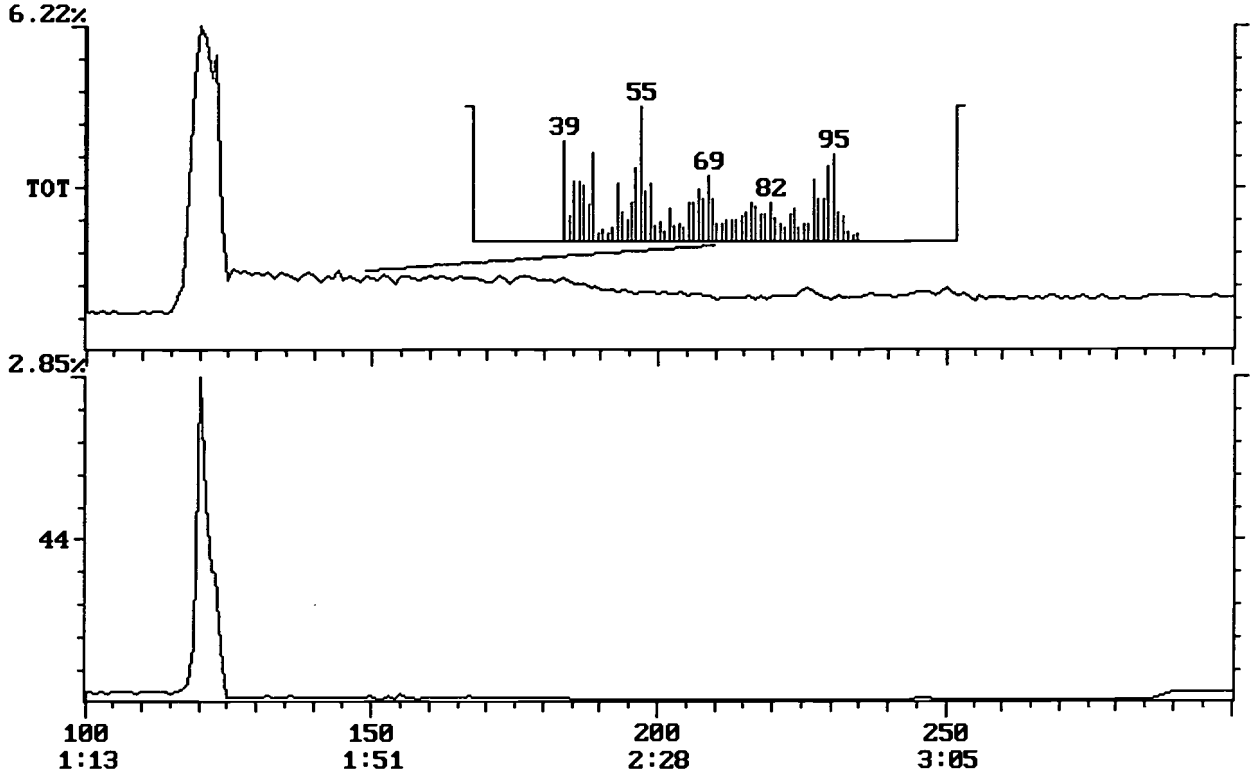
Quantitation Report Quan File: 574742MS Cali File: 0227BN1 Entries: 1
Comment: 574742 MS 100 PPB SPIKE DK 27118.
Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:50	3,283,989	149.183	ug/L


Auto Integration
100%
371435
885998
413011
44
100
150
200
1:13
1:51
2:28
Spectrum Match
Libr
44
65 74 86 94
Data
44
55
77
20
40
60
80
100
DMA
No Compound/Standard Name Exp RT Thrsh Act RT Fit S/N Scan# Peak Area
1 DMA 1:50 600
integrating...
Single Step Option
<cr> - Write Peak Integration Data
M - Manually Integrate the Peak
↑↓ - Change Plot Gain
Data File: 574742MS Cali File: 0227BN1 Quan File: 574742MS 03/01/01 16:21:00


Auto Integration
100%
412568
3283989
413011
44
100
150
200
1:13
1:51
2:28
Spectrum Match
Libr
44
65 74 86 94
Data
44
55
77
20
40
60
80
100
DMA
Write Integration Data (y/*):
B - Set Optional Baseline
R - Redraw Chromatogram Plot
← - Move Cursor by 1
Shift ← - Move Cursor by 10
<Space> - Set Integration Endpoint
<Cr> - Perform Auto Integration
↑↓ - Change Plot Gain
<Esc> - Exit
Data File: 574742MS Cali File: 0227BN1 Quan File: 574742MS 03/01/01 16:21:00

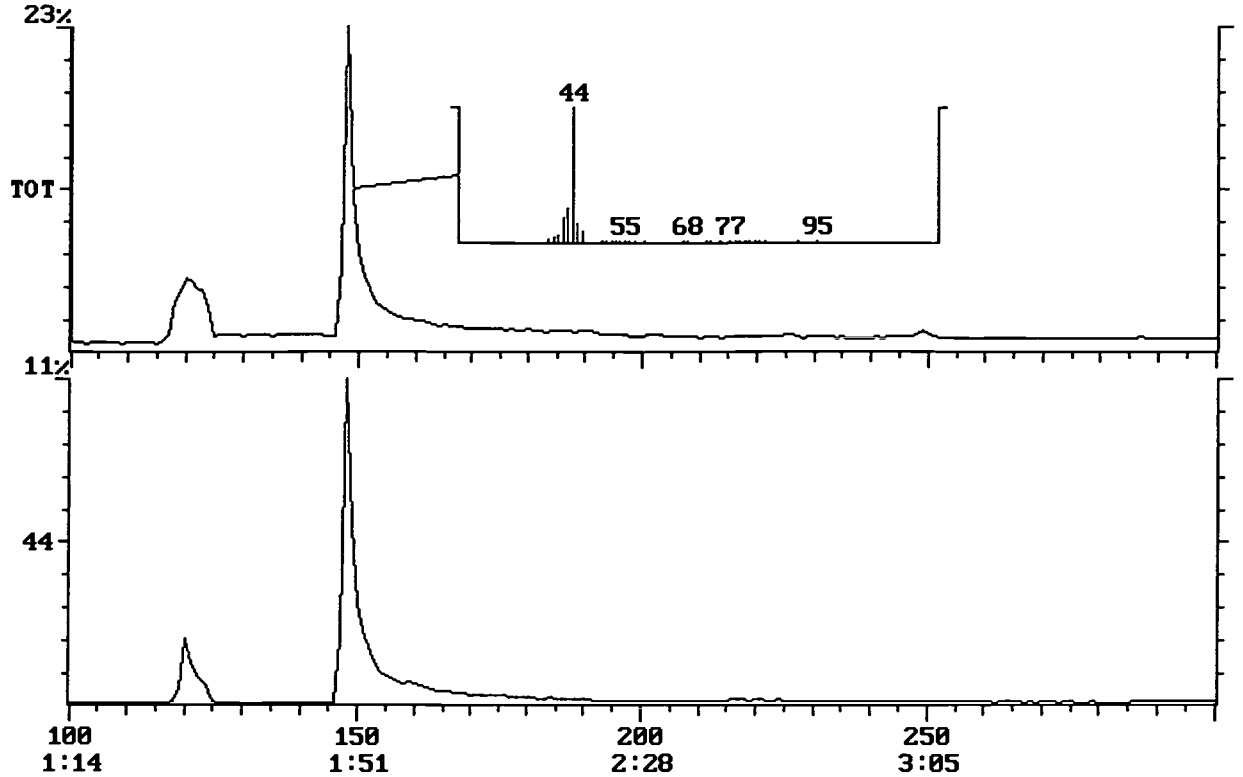
Chromatogram Plot C:\BN\022801A\MB-DMA Date: 02/28/01 08:24:23
Comment: LMB FOR DMA ANALYSIS, 2-28-01.
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 34798 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 4919990



Quantitation Report Quan File: MB-DMA Cali File: 0227BN1 Entries: 1
Comment: LMB FOR DMA ANALYSIS, 2-28-01.
Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

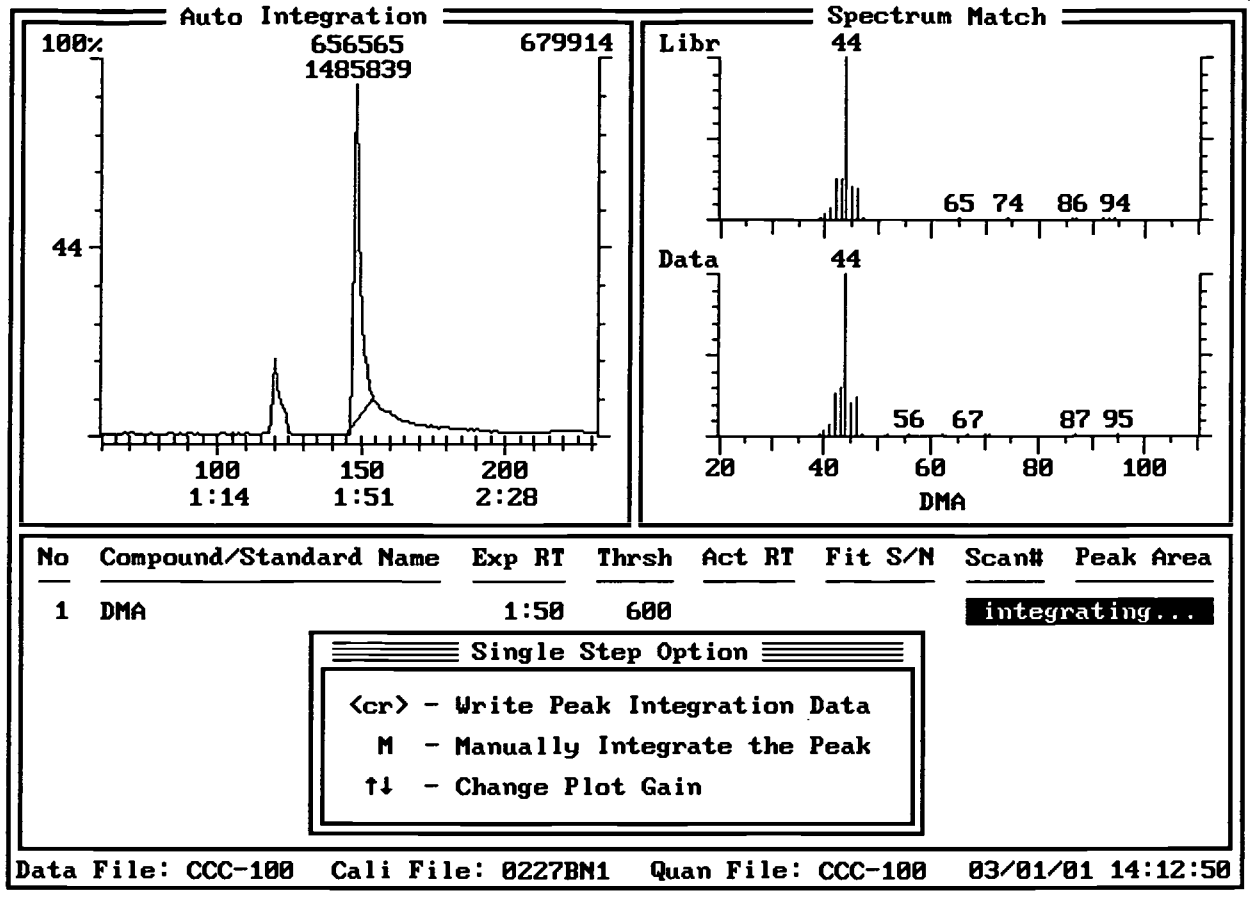
Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	2:03	1,208	5.933	ug/L

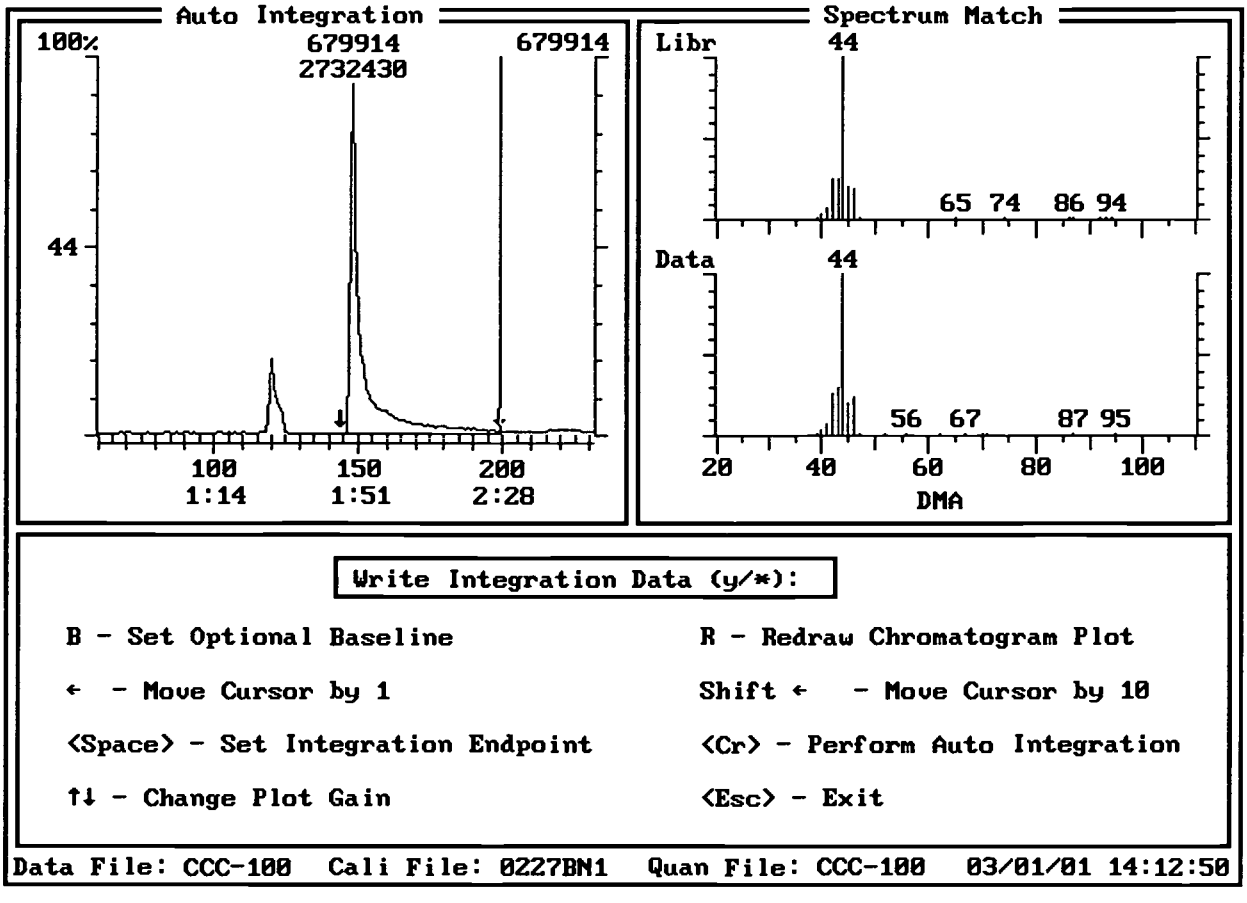
Chromatogram Plot C:\BN\022801A\CCC-100 Date: 02/28/01 07:41:19
Comment: CCC AT 100 PPB DMA.
Scan: 100 Seg: 1 Group: 0 Retention: 1:14 RIC: 36221 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 403 100% = 6455423



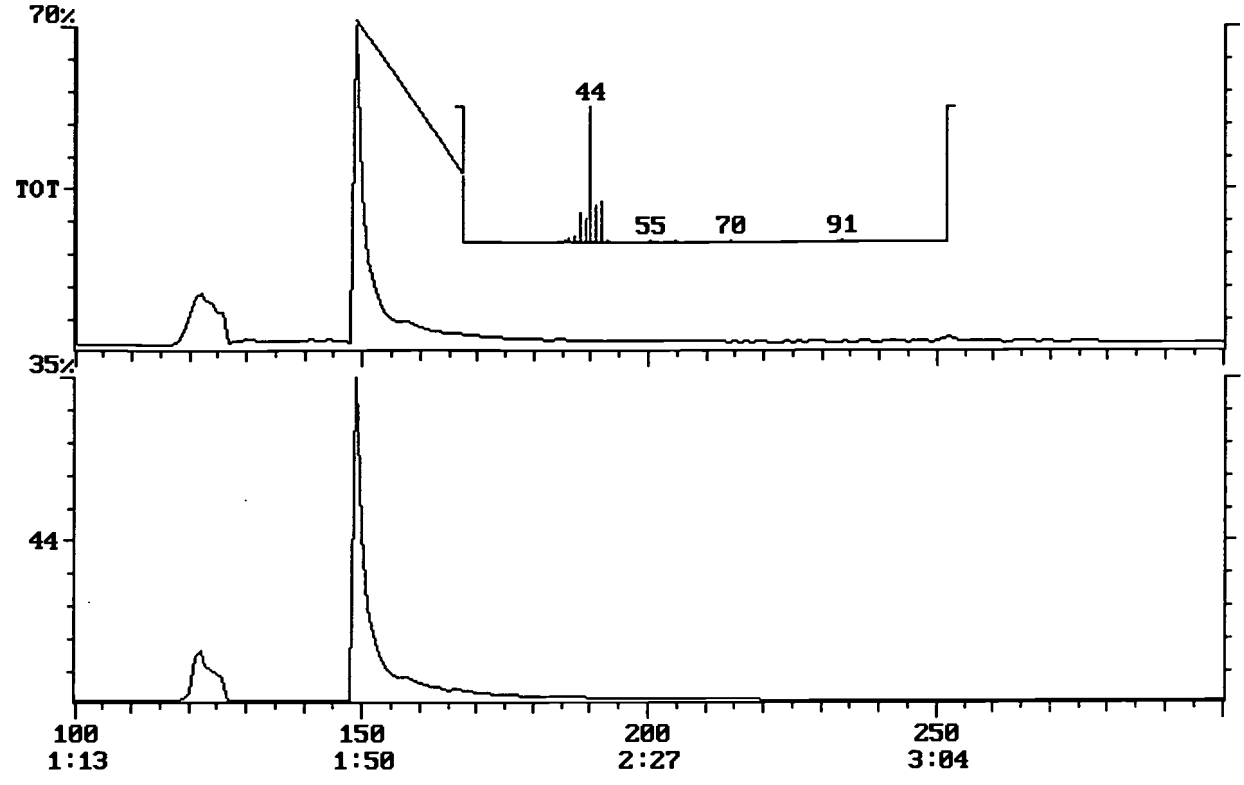
Quantitation Report Quan File: CCC-100 Cali File: 0227BN1 Entries: 1
Comment: CCC AT 100 PPB DMA.
Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:49	2,732,430	125.115	ug/L


Auto Integration
100%
656565
679914
1485839
44
100
150
200
1:14
1:51
2:28
Spectrum Match
Libr
44
65 74 86 94
Data
44
56 67 87 95
20 40 60 80 100
DMA
No Compound/Standard Name Exp RT Thrsh Act RT Fit S/N Scan# Peak Area
1 DMA 1:50 600 integrating...
Single Step Option
<cr> - Write Peak Integration Data
M - Manually Integrate the Peak
↑↓ - Change Plot Gain
Data File: CCC-100 Cali File: 0227BN1 Quan File: CCC-100 03/01/01 14:12:50

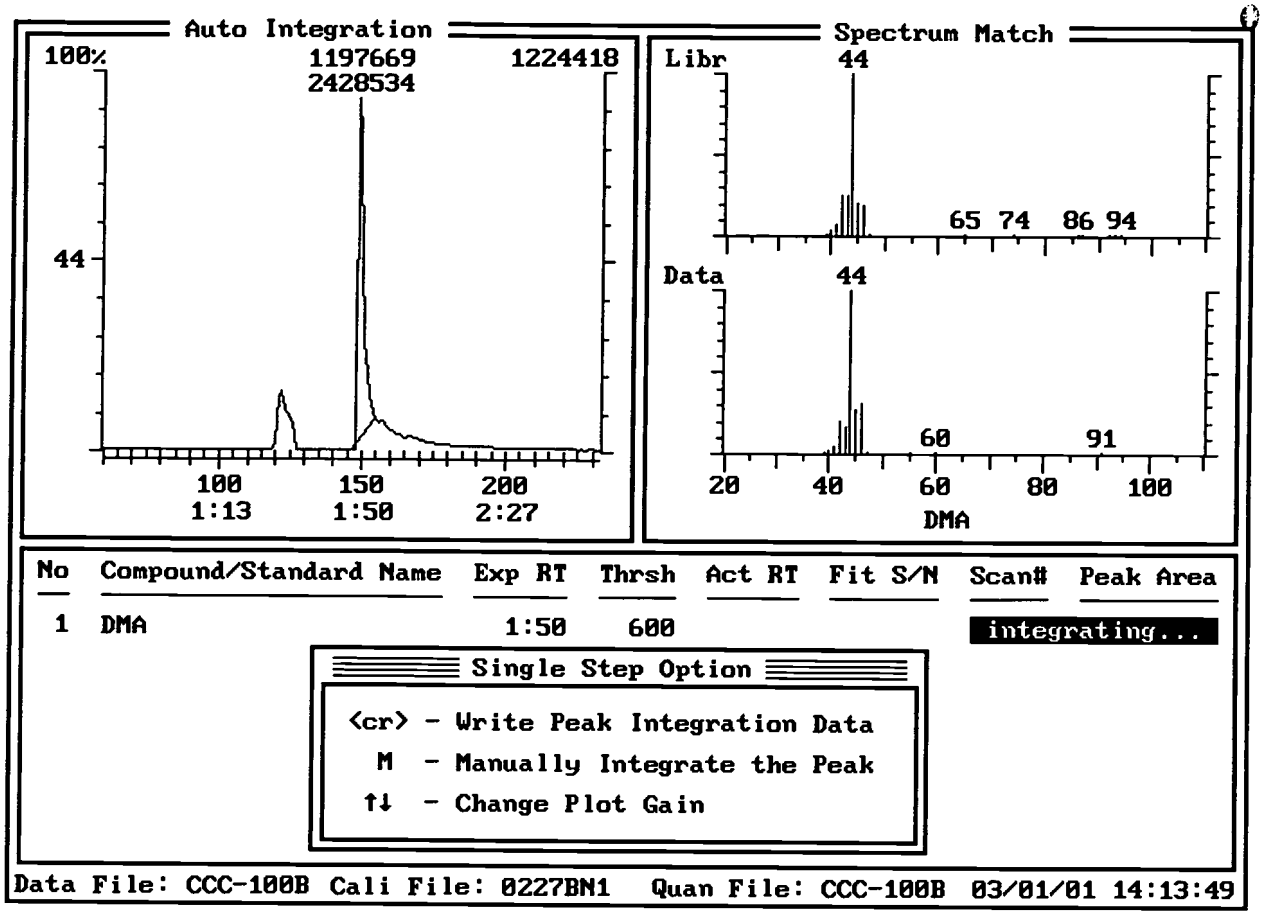

Auto Integration
100%
679914
679914
2732430
44
100
150
200
1:14
1:51
2:28
Spectrum Match
Libr
44
65 74 86 94
Data
44
56 67 87 95
20 40 60 80 100
DMA
Write Integration Data (y/*):
B - Set Optional Baseline
R - Redraw Chromatogram Plot
← - Move Cursor by 1
Shift ← - Move Cursor by 10
<Space> - Set Integration Endpoint
<Cr> - Perform Auto Integration
↑↓ - Change Plot Gain
<Esc> - Exit
Data File: CCC-100 Cali File: 0227BN1 Quan File: CCC-100 03/01/01 14:12:50

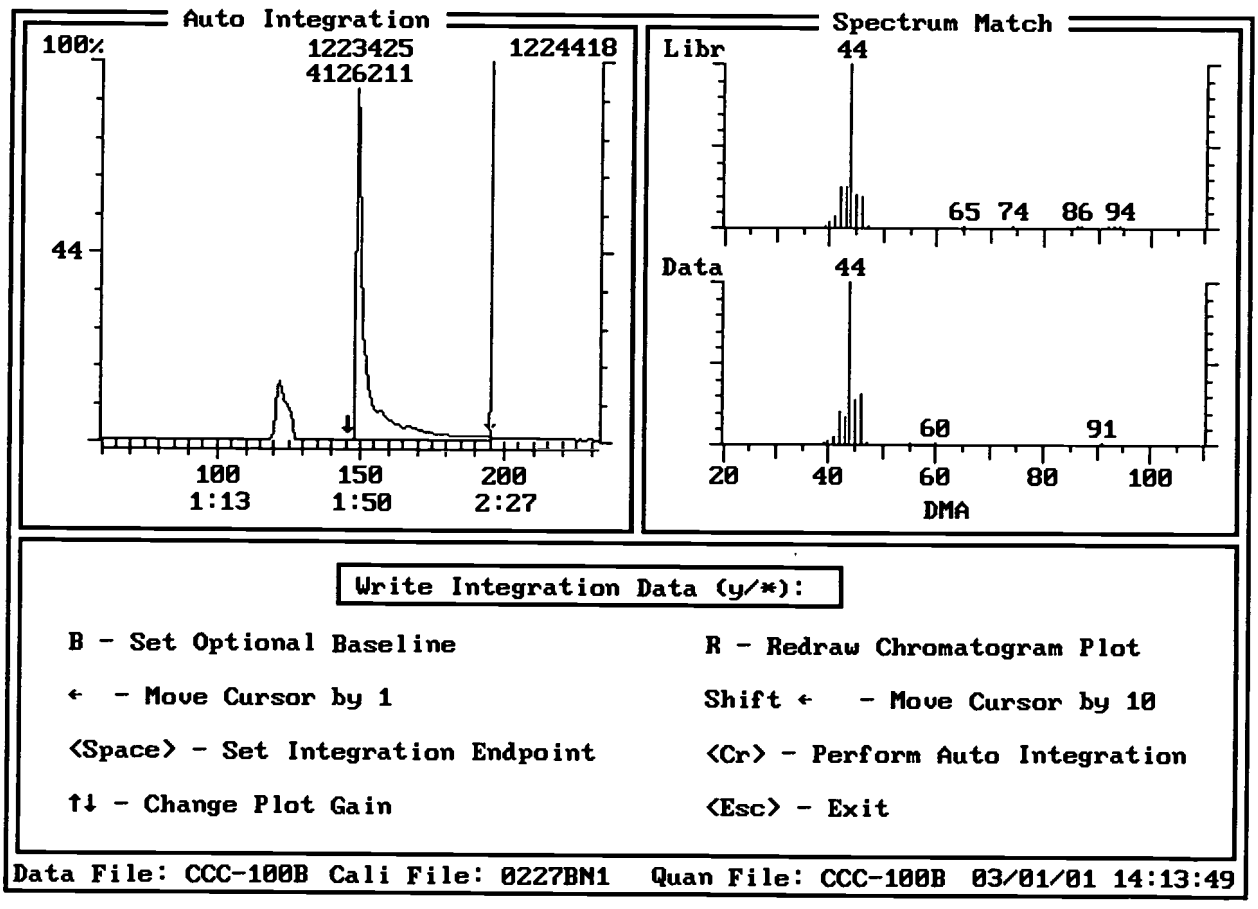
Chromatogram Plot C:\BN\022801A\CCC-100B Date: 02/28/01 16:19:28
Comment: CCC AT 100 PPB DMA.
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 37282 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 3542672



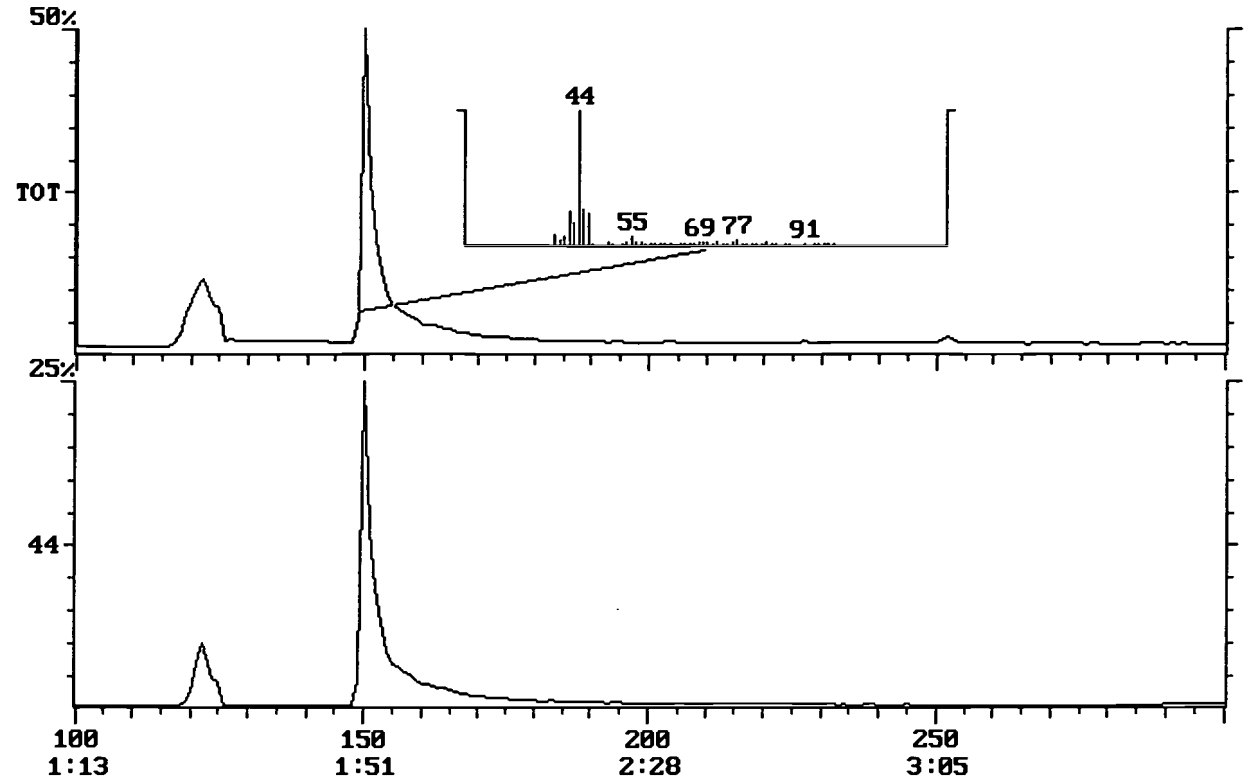
Quantitation Report Quan File: CCC-100B Cali File: 0227BN1 Entries: 1
Comment: CCC AT 100 PPB DMA.
Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:49	4,126,211	185.935	ug/L


Auto Integration
100%
1197669
1224418
2428534
44
100
150
200
1:13
1:50
2:27
Spectrum Match
Libr
44
65 74 86 94
Data
44
60
91
20
40
60
80
100
DMA
No
Compound/Standard Name
Exp RT
Thrsh
Act RT
Fit S/N
Scan#
Peak Area
1
DMA
1:50
600
integrating...
Single Step Option
<cr> - Write Peak Integration Data
M - Manually Integrate the Peak
↑↓ - Change Plot Gain
Data File: CCC-100B Cali File: 0227BN1 Quan File: CCC-100B 03/01/01 14:13:49

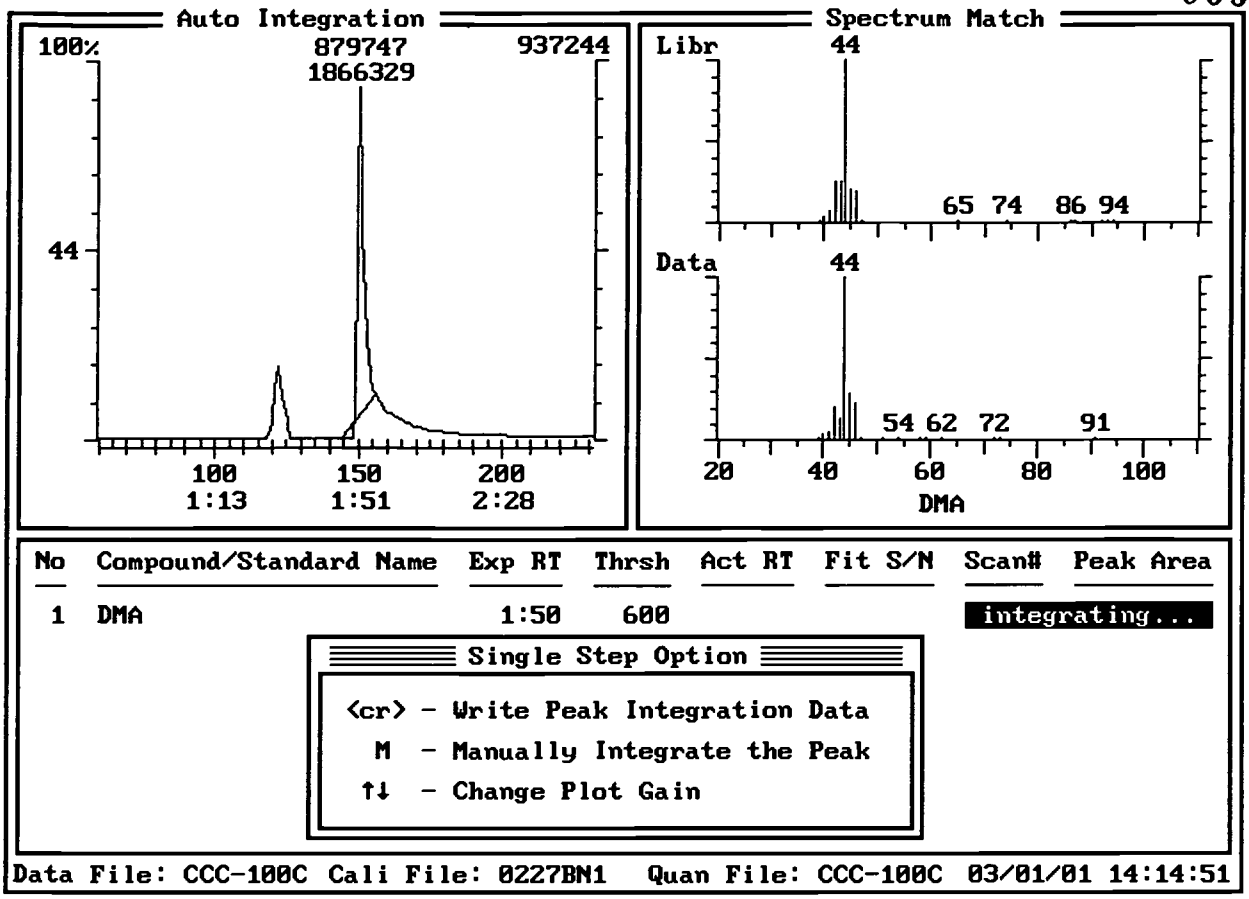

Auto Integration
100%
1223425
1224418
4126211
44
100
150
200
1:13
1:50
2:27
Spectrum Match
Libr
44
65 74 86 94
Data
44
60
91
20
40
60
80
100
DMA
Write Integration Data (y/*):
B - Set Optional Baseline
R - Redraw Chromatogram Plot
← - Move Cursor by 1
Shift ← - Move Cursor by 10
<Space> - Set Integration Endpoint
<Cr> - Perform Auto Integration
↑↓ - Change Plot Gain
<Esc> - Exit
Data File: CCC-100B Cali File: 0227BN1 Quan File: CCC-100B 03/01/01 14:13:49

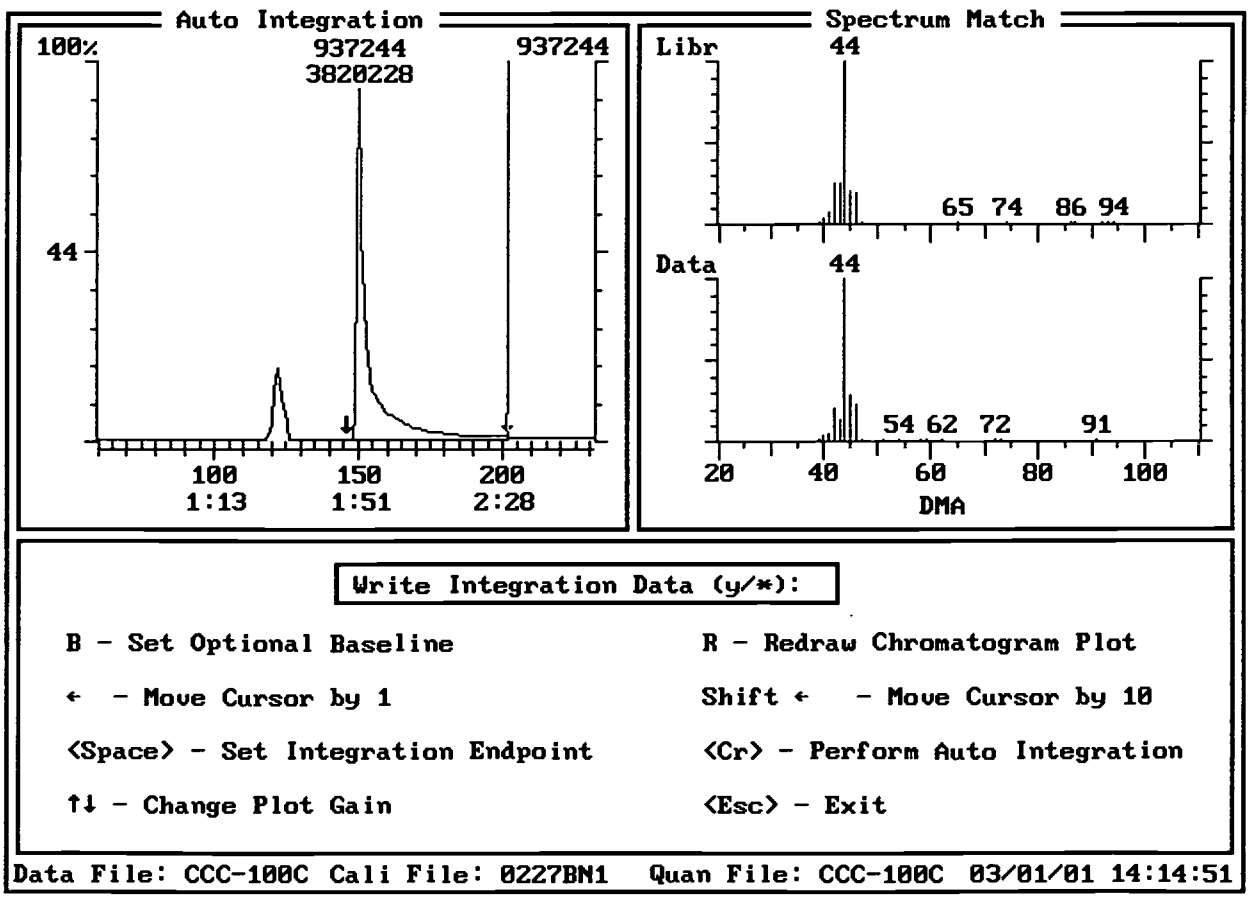
Chromatogram Plot C:\BN\022801A\CCC-100C Date: 02/28/01 16:56:29
Comment: CCC AT 100 PPB DMA.
Scan: 100 Seg: 1 Group: 0 Retention: 1:13 RIC: 37930 Masses: 39-100
Plotted: 100 to 300 Range: 1 to 404 100% = 3684747



Quantitation Report Quan File: CCC-100C Cali File: 0227BN1 Entries: 1
Comment: CCC AT 100 PPB DMA.
Sorted via: Entry Number ↑ IS Factor: 1.000 Mult: 1.000 Div: 1.000

Cal	Name of Compound	R Time	Peak Area	Calc Amt(A)	Units
1	DMA	1:51	3,820,228	172.583	ug/L


Auto Integration
100%
879747
1866329
937244
44
100
150
200
1:13
1:51
2:28
Spectrum Match
Libr
44
65 74 86 94
Data
44
54 62 72 91
20 40 60 80 100
DMA
No Compound/Standard Name Exp RT Thrsh Act RT Fit S/N Scan# Peak Area
1 DMA 1:50 600
integrating...
Single Step Option
<cr> - Write Peak Integration Data
M - Manually Integrate the Peak
↑↓ - Change Plot Gain
Data File: CCC-100C Cali File: 0227BN1 Quan File: CCC-100C 03/01/01 14:14:51


Auto Integration
100%
937244
3820228
937244
44
100
150
200
1:13
1:51
2:28
Spectrum Match
Libr
44
65 74 86 94
Data
44
54 62 72 91
20 40 60 80 100
DMA
Write Integration Data (y/*):
B - Set Optional Baseline
R - Redraw Chromatogram Plot
← - Move Cursor by 1
Shift ← - Move Cursor by 10
<Space> - Set Integration Endpoint
<Cr> - Perform Auto Integration
↑↓ - Change Plot Gain
<Esc> - Exit
Data File: CCC-100C Cali File: 0227BN1 Quan File: CCC-100C 03/01/01 14:14:51

THIRAM / THIURAM
CONTINUING CALIBRATION CHECK

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Contract: BAA 97-044
Task: SAS
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm
CCC Data File: CCC-5a

All concentrations are in ug/L

Compound	Target Conc	Observed Conc	Percent Recovery	Acceptance Limits	P / F	Q
Thiram	5.0	4.986	99.2	70 - 130	Pass	
Thiuram	5.0	4.845	96.9	70 - 130	Pass	

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

THIRAM / THIURAM
CONTINUING CALIBRATION CHECK

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Contract: BAA 97-044
Task: SAS
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm
CCC Data File: CCC-5b

All concentrations are in ug/L

Compound	Target Conc	Observed Conc	Percent Recovery	Acceptance Limits	P / F	Q
Thiram	5.0	4.667	93.3	70 - 130	Pass	
Thiuram	5.0	8.122	162	70 - 130	Fail	*

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

THIRAM / THIURAM
LABORATORY FORTIFIED BLANK

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Contract: BAA 97-044
Task: SAS
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm

All concentrations are in ug/L

Compound	Target Conc	Observed Conc	Percent Recovery	Acceptance Limits	P / F	Q
Thiram	5.0	3.986	79.7	70 - 130	Pass	
Thiuram	5.0	4.430	88.6	70 - 130	Pass	

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

THIRAM
QUALITY CONTROL SAMPLE

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Contract: BAA 97-044
Task: SAS
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm

All concentrations are in ug/L

Compound	Target Conc	Observed Conc	Percent Recovery	Acceptance Limits	P / F	Q
Thiram	5.0	2.580	51.6	70 - 130	Fail	*

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

THIRAM / THIURAM
DATA SHEET

Lab Name: Environmental Health Laboratories Lab ID: unknown Date Received: 02/17/01
Contract: BAA 97-044 Task: SAS Date Analyzed: 02/20/01
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154 Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm
Matrix Code: SW
Data File/Smpl ID: 576026
Data File/Dupl ID:
Sample Number/Description: DK 27151

Compound	Sample Concentration	Units
Thiram	< 0.5	ug/L
Thiuram	< 0.5	ug/L

Duplicate Concentration	Units	Q

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

THIRAM / THIURAM
DATA SHEET

Lab Name: Environmental Health Laboratories Lab ID: unknown Date Received: 02/17/01
Contract: BAA 97-044 Task: SAS Date Analyzed: 02/20/01
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154 Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm
Matrix Code: SW
Data File/Smpl ID: 576032
Data File/Dupl ID:
Sample Number/Description: DK 27152

Compound	Sample Concentration	Units
Thiram	< 0.5	ug/L
Thiuram	< 0.5	ug/L

Duplicate Concentration	Units	Q

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

THIRAM / THIURAM
DATA SHEET

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Date Received: 02/17/01
Contract: BAA 97-044
Task: SAS
Date Analyzed: 02/20/01
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm
Matrix Code: SW
Data File/Smpl ID: 576038
Data File/Dupl ID:
Sample Number/Description: DK 27153

Compound	Sample Concentration	Units
Thiram	< 0.5	ug/L
Thiuram	< 0.5	ug/L

Duplicate Concentration	Units	Q

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

THIRAM / THIURAM
DATA SHEET

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Date Received: 02/17/01
Contract: BAA 97-044
Task: SAS
Date Analyzed: 02/20/01
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm
Matrix Code: SW
Data File/Smpl ID: 576044
Data File/Dupl ID:
Sample Number/Description: DK 27154

Compound	Sample Concentration	Units
Thiram	< 0.5	ug/L
Thiuram	< 0.5	ug/L

Duplicate Concentration	Units	Q

Q = A flag **or** qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

DETERMINATION OF METHOD DETECTION LIMITS
Thiram and Thiuram by Electrospray(+) LC/MS

Lab Name: Environmental Health Laboratories
Contract: NA
Project: Routine MDLs
Column: XTerra MS, C18, 2.1mm x 4.6cm
Matrix Code: RW

Analyst: EG
Extractionist EG
Case : NA
Date: 19-Sep-00

Acq. File: C:\BI\IDEM-WR
Data Directory: C:\BI\IDEM-WR.PRO\Sample DB
Initial Cali Data: C:\BI\IDEM-WR.PRO\Sample DB
Instrument ID: LC/MS BI

EHL ID#		NA	NA	NA	NA	NA	NA	NA				
Data File		0919MDLA	0919MDLB	0919MDLC	0919MDLD	0919MDLE	0919MDLF	0919MDLG				
Analysis Date		09/19/00	09/19/00	09/19/00	09/19/00	09/19/00	09/19/00	09/19/00				
Parameter	Target 1.0 ppb	Rep-1	Rep-2	Rep-3	Rep-4	Rep-5	Rep-6	Rep-7	Average Recovery	Average %Recovery	Std. Deviation	Calc. MDL	Q
Thiram	1.0000	0.8100	0.8400	0.8100	0.7800	0.7100	0.8500	0.7700	0.7957	79.6	0.0476	0.1495	
Thiuram	1.0000	1.0400	1.1800	1.2500	1.1500	1.1700	1.2300	1.2500	1.1814	118.1	0.0740	0.2327	

Q = The calculated MDL is not valid according to 40 CFR Part 136 appendix B

PURPOSE OF THE STUDY: MDLs--100 ml sample analyzed using EHL SOP.

DETERMINATION OF METHOD DETECTION LIMITS
Thiram and Thiuram by Electrospray(+) LC/MS

Lab Name: Environmental Health Laboratories
Contract: NA
Project: Routine MDLs
Column: XTerra MS, C18, 2.1mm x 4.6cm
Matrix Code: RW

Analyst: EG
Extractionist EG
Case : NA
Date: 19-Sep-00

Acq. File: C:\BI\IDEM-WR
Data Directory: C:\BI\IDEM-WR.PRO\Sample DB
Initial Cali Data: C:\BI\IDEM-WR.PRO\Sample DB
Instrument ID: LC/MS BI

EHL ID#		NA	NA	NA	NA	NA	NA	NA				
Data File		0919MDLA	0919MDLB	0919MDLC	0919MDLD	0919MDLE	0919MDLF	0919MDLG				
Analysis Date		09/19/00	09/19/00	09/19/00	09/19/00	09/19/00	09/19/00	09/19/00				
Parameter	Target 1.0 ppb	Rep - 1	Rep - 2	Rep - 3	Rep - 4	Rep - 5	Rep - 6	Rep - 7	Average Recovery	Average %Recovery	Std. Deviation	Calc. MDL	Q
Thiram	1.0000	0.8100	0.8400	0.8100	0.7800	0.7100	0.8500	0.7700	0.7957	79.6	0.0476	0.1495	
Thiuram	1.0000	1.0400	1.1800	1.2500	1.1500	1.1700	1.2300	1.2500	1.1814	118.1	0.0740	0.2327	

Q = The calculated MDL is not valid according to 40 CFR Part 136 appendix B

PURPOSE OF THE STUDY: MDLs--100 ml sample analyzed using EHL SOP.

Quantify Sample Summary Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:36 2001

Sample Name: 0220-LIB-A Sample ID: LIB FOR IDEM THIRAM/THIURAM SAMPLES

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

Sample Name: 0220-CAL-0_5 Sample ID: CAL STD AT 0.5 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	767	13.07	583	583	bb	0.522
2	Thiram	87	16.50	9820	9820	bb	0.520

Sample Name: 0220-CAL-1 Sample ID: CAL STD AT 1.0 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	767	13.07	1619	1619	bb	1.026
2	Thiram	90	16.55	18661	18661	bb	0.981

Sample Name: 0220-CAL-2_5 Sample ID: CAL STD AT 2.5 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	766	13.05	3870	3870	bb	2.129
2	Thiram	85	16.47	46158	46158	bb	2.426

Sample Name: 0220-CAL-5 Sample ID: CAL STD AT 5 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	764	13.02	9418	9418	bb	4.900
2	Thiram	84	16.45	95801	95801	bb	5.092

Quantify Sample Summary Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:36 2001

Sample Name: 0220-CAL-10 Sample ID: CAL STD AT 10 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	765	13.03	19626	19626	bb	10.214
2	Thiram	89	16.54	183068	183068	bb	9.967

Sample Name: 0220-CAL-25 Sample ID: CAL STD AT 25 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	762	12.98	45000	45000	bb	24.969
2	Thiram	84	16.45	423411	423411	bb	25.003

Sample Name: 0220-LIB-B Sample ID: LIB B

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	766	13.05	379	379	bb	0.424
2	Thiram	91	16.57	14433	14433	bb	0.760

Sample Name: 0220-CCC-5A Sample ID: CCC AT 5 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	761	12.97	9308	9308	bb	4.845
2	Thiram	86	16.49	93866	93866	bb	4.986

Sample Name: 0220-LMB-A Sample ID: LMB EXT 2/20/01 IDEM WR

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

Quantify Sample Summary Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:36 2001

Sample Name: 0220-LFB-5A **Sample ID: LFB AT 5 PPB THIO MIX, EXT 2/20/01**

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	768	13.08	8487	8487	bb	4.430
2	Thiram	90	16.55	75382	75382	bb	3.986

Sample Name: 0220-QCS-5A **Sample ID: QCS WITH THIRAM ONLY, 5 PPB, EXT 2/20/01**

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	762	12.98	197	197	bb	0.335
2	Thiram	84	16.45	49009	49009	bb	2.577

Sample Name: 0220-574742 **Sample ID: IDEM DK 27118**

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

Sample Name: 0220-574742-MS **Sample ID: IDEM DK 27118, MS WITH THIO MIX 5 PPB.**

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	764	13.02	10310	10310	bb	5.353
2	Thiram	85	16.47	16057	16057	bb	0.845

Sample Name: 0220-574742-MSD **Sample ID: IDEM DK 27118, MSD WITH THIO MIX 5 PPB.**

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	766	13.05	11090	11090	bb	5.751
2	Thiram	89	16.54	35237	35237	bb	1.850

Quantify Sample Summary Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:36 2001

Sample Name: 0220-574740 Sample ID: IDEM DK DK 27116

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

Sample Name: 0220-574741 Sample ID: IDEM DK 27117

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

Sample Name: 0220-576013 Sample ID: IDEM DK 27139

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	763	13.00	73175	73175	bb	45.612
2	Thiram	85	16.47	4517458	4517458	bbI	

Sample Name: 0220-576020 Sample ID: IDEM DK 27140

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	766	13.05	272	272	bb	0.372
2	Thiram	90	16.55	9084	9084	bb	0.482

Sample Name: 0220-576026 Sample ID: IDEM DK 27151

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram	86	16.49	298	298	bb	0.027

Quantify Sample Summary Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:36 2001

Sample Name: 0220-576032 Sample ID: IDEM DK 27152

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

Sample Name: 0220-576038 Sample ID: IDEM DK 27153

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

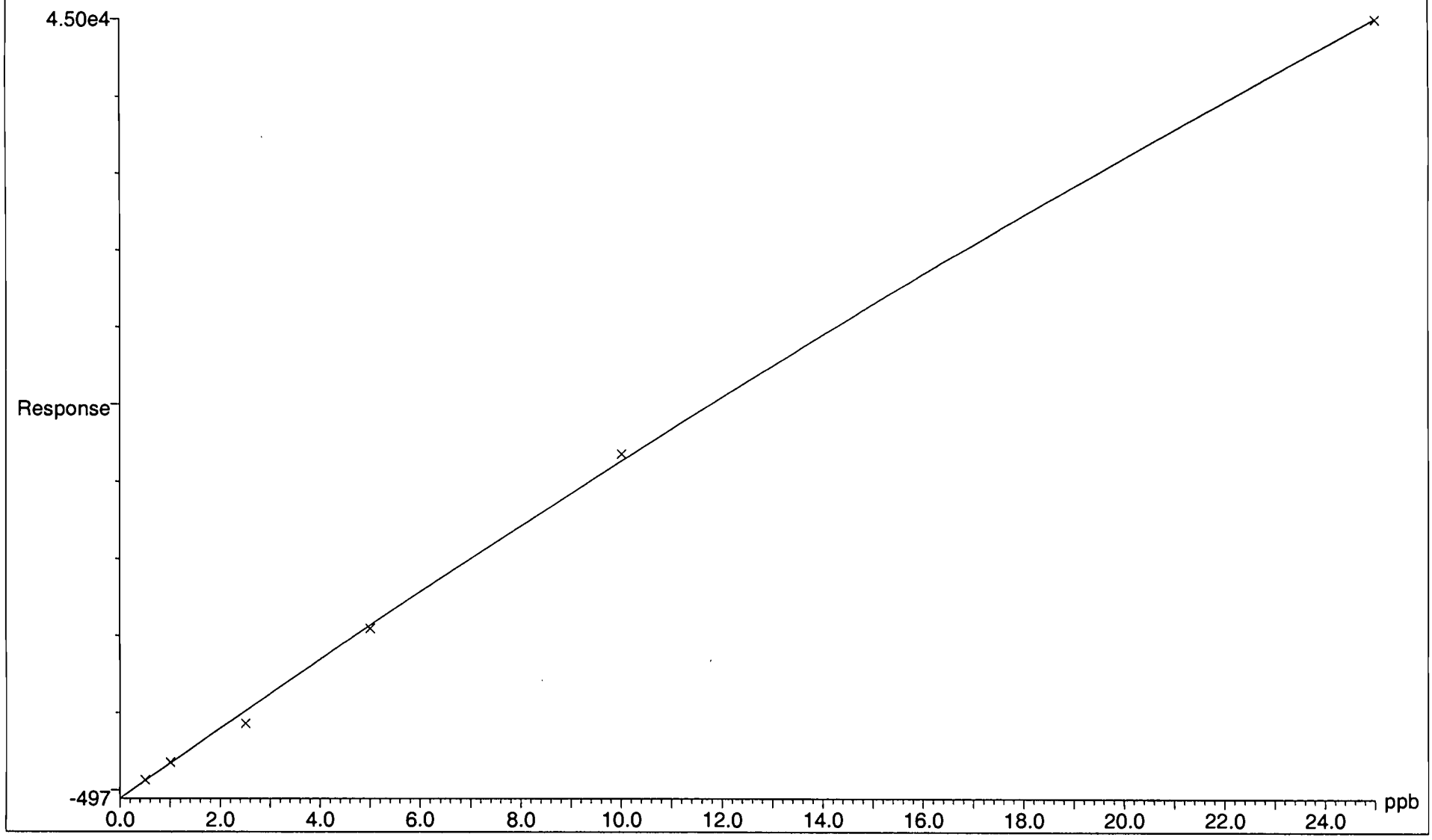
Sample Name: 0220-576044 Sample ID: IDEM DK 27154

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

Sample Name: 0220-CCC-5B Sample ID: CCC THIO MIX, 5 PPB.

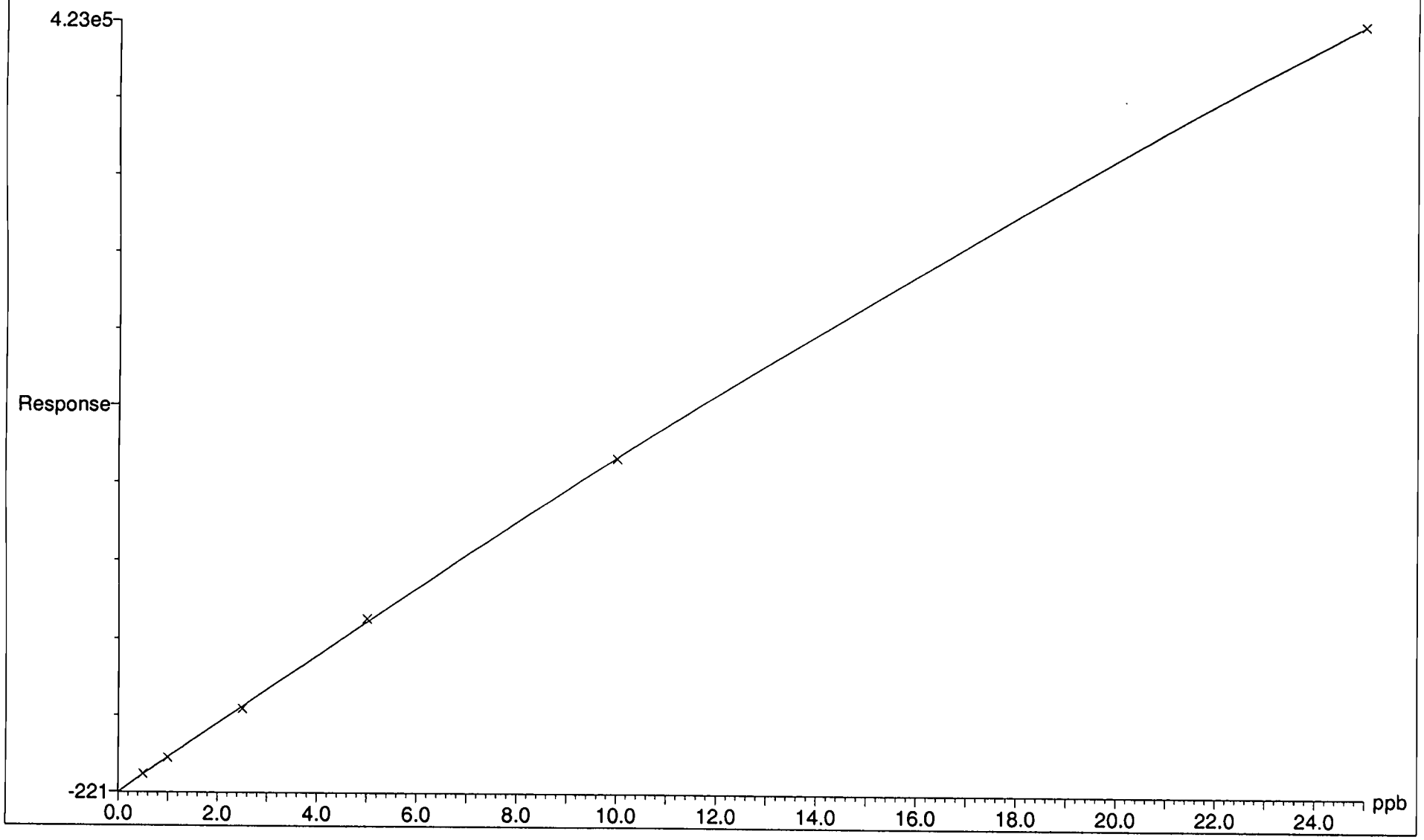
#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	780	13.29	15674	15674	bb	8.122
2	Thiram	102	16.76	87987	87987	bb	4.667

Compound 1 name: Thiuram
Coefficient of Determination: 0.999363
Calibration curve: -10.0257 * x^2 + 2072.48 * x + -496.766
Response type: External Std, Area
Curve type: 2nd Order, Origin: Include, Weighting: Null, Axis trans: None



Quantify Calibration Report
Thiram and Thiuram by LC/MS

Compound 2 name: Thiram
Coefficient of Determination: 0.999961
Calibration curve: -96.1769 * x^2 + 19348.1 * x + -220.688
Response type: External Std, Area
Curve type: 2nd Order, Origin: Include, Weighting: Null, Axis trans: None



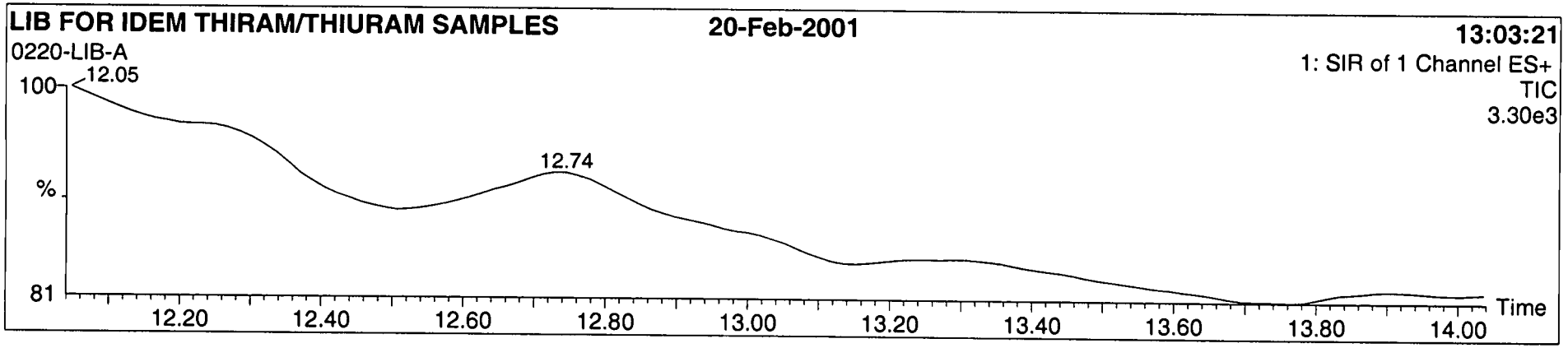
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

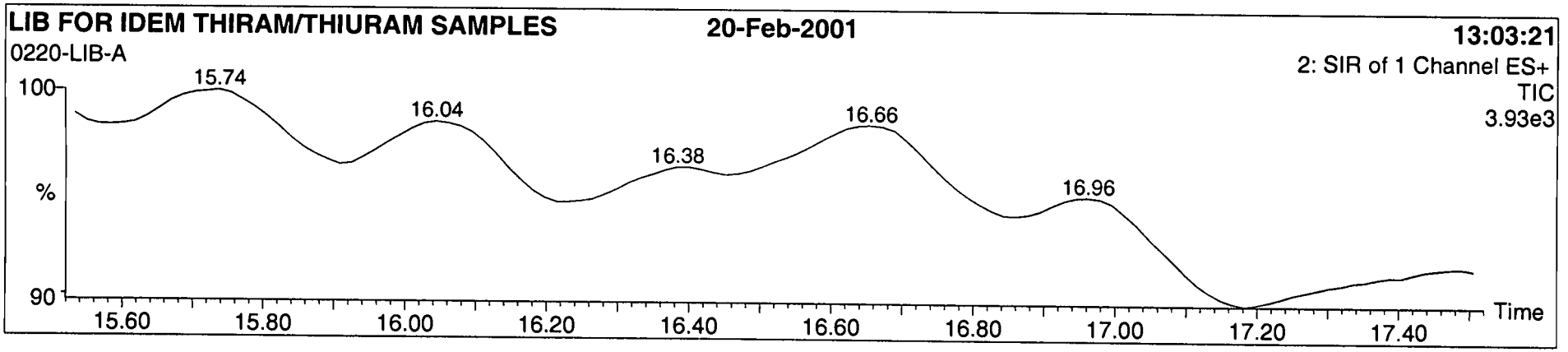
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-LIB-A
Text: 07-18-00 LIB A

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-LIB-A
Text: 07-18-00 LIB A

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

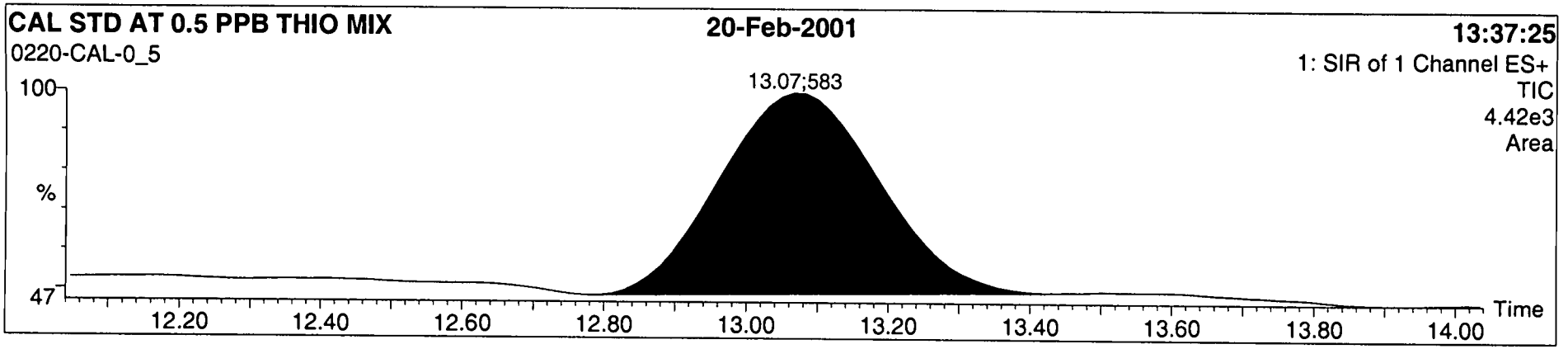
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

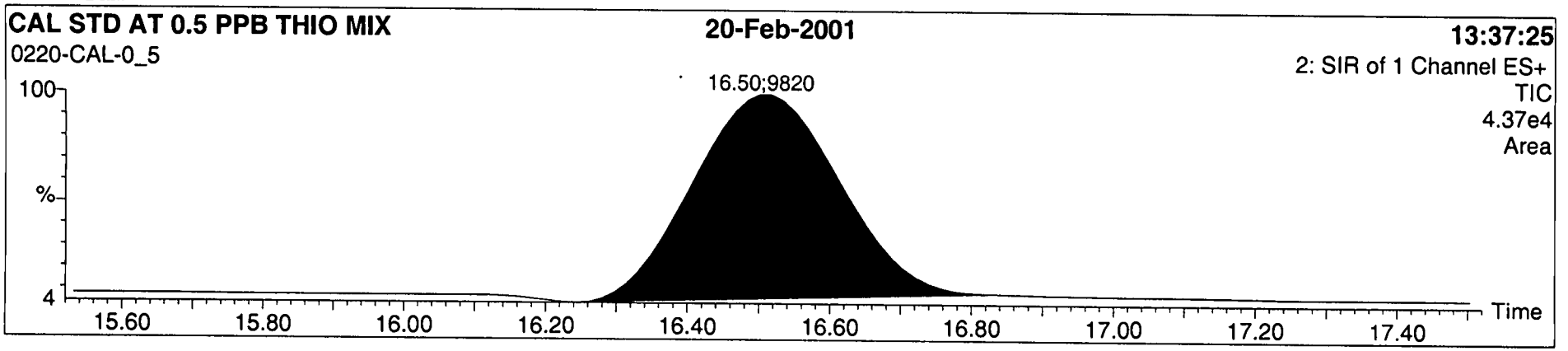
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CAL-0_5
Text: BUFFERED W/MCAA 0.5 PPB

1: Thiuram



2: Thiram



000605

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CAL-0_5
Text: BUFFERED W/MCAA 0.5 PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	767	13.07	583	583	bb	0.522
2	Thiram	87	16.50	9820	9820	bb	0.520

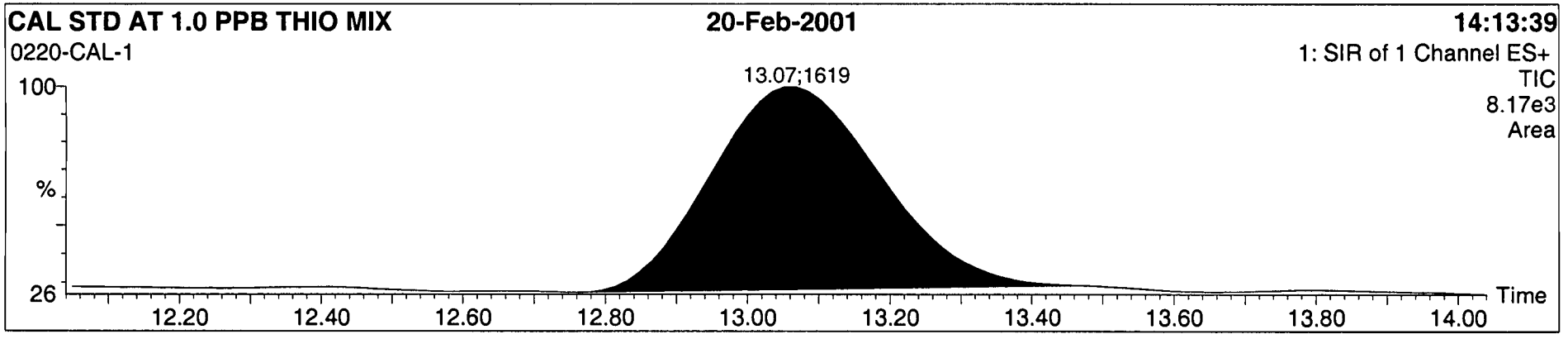
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

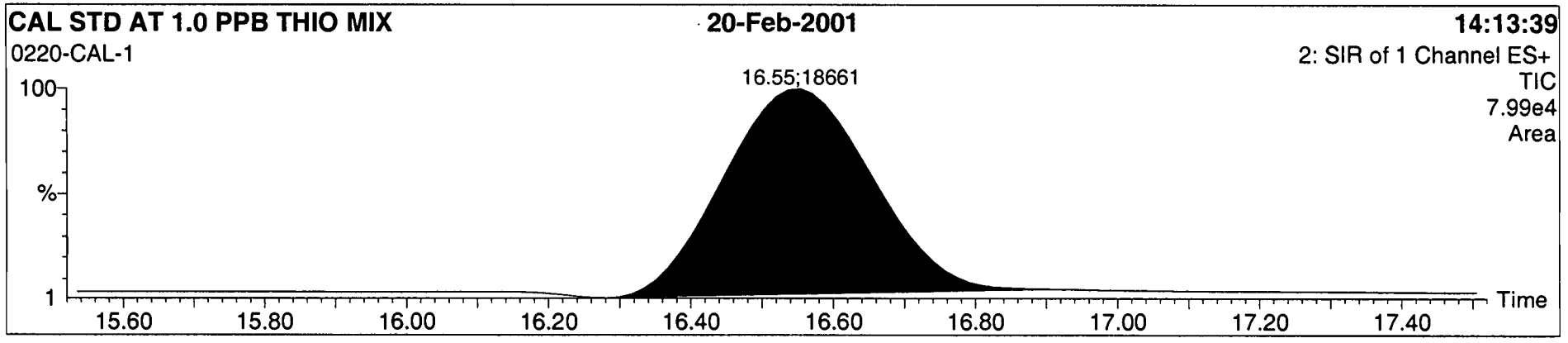
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CAL-1
Text: BUFFERED W/MCAA 1.0 PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CAL-1
Text: BUFFERED W/MCAA 1.0 PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	767	13.07	1619	1619	bb	1.026
2	Thiram	90	16.55	18661	18661	bb	0.981

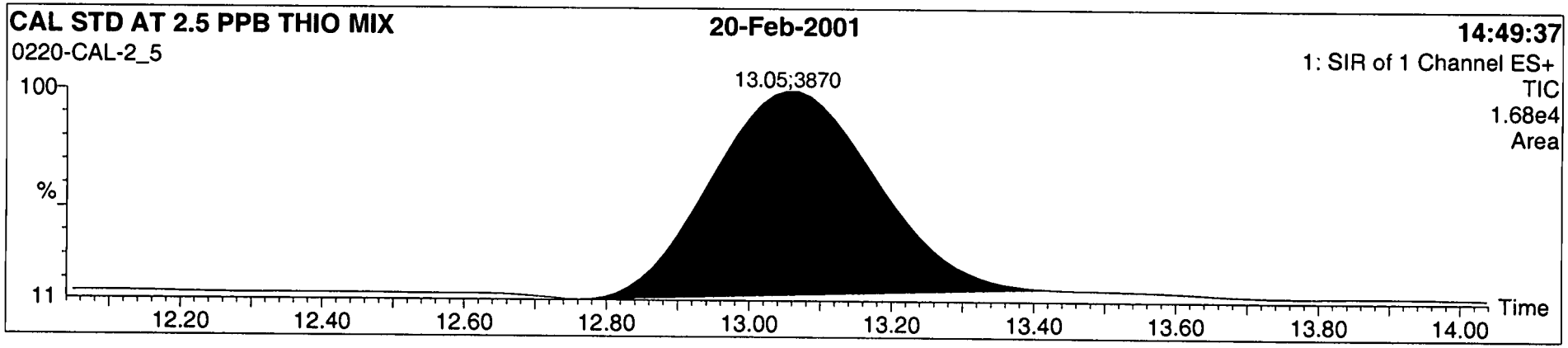
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

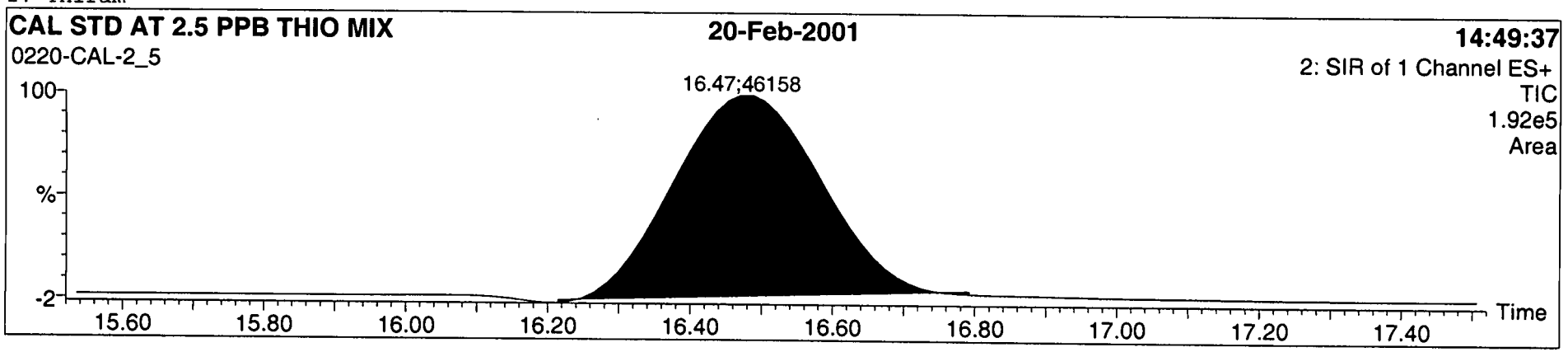
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CAL-2_5
Text: BUFFERED W/MCAA 2.5 PPB

1: Thiuram



2: Thiram



Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CAL-2_5
Text: BUFFERED W/MCAA 2.5 PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	766	13.05	3870	3870	bb	2.129
2	Thiram	85	16.47	46158	46158	bb	2.426

000610

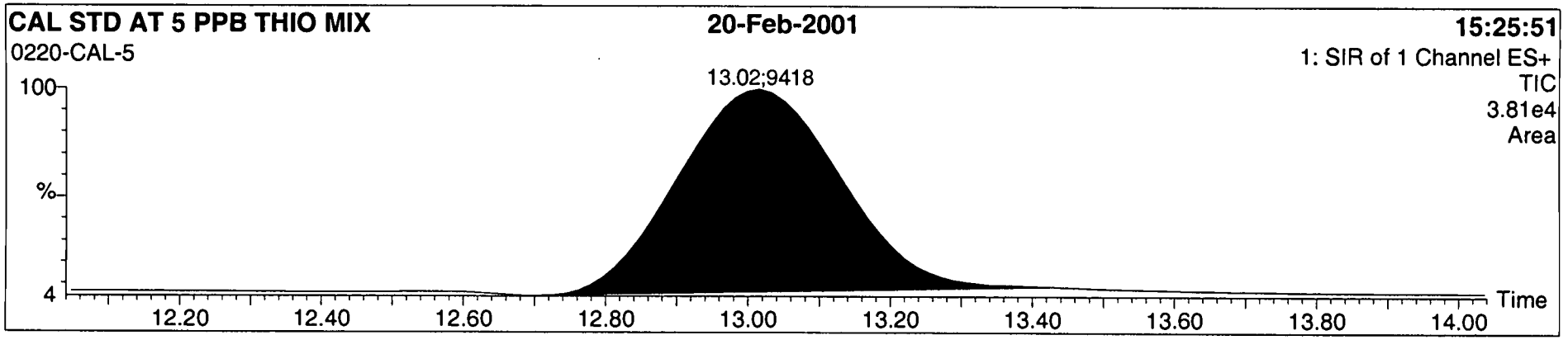
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

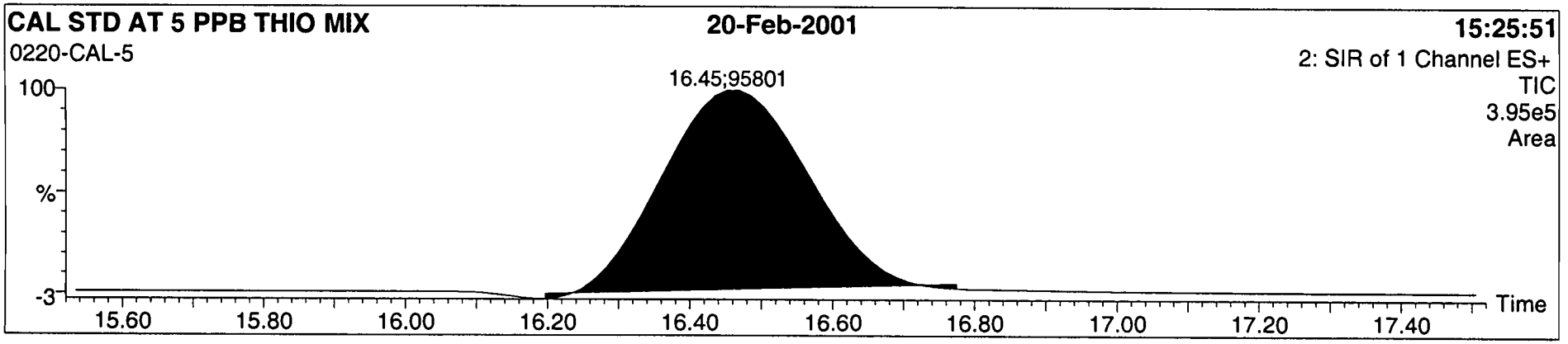
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CAL-5
Text: BUFFERED W/MCAA 5.0 PPB 60:40

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CAL-5
Text: BUFFERED W/MCAA 5.0 PPB 60:40

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	764	13.02	9418	9418	bb	4.900
2	Thiram	84	16.45	95801	95801	bb	5.092

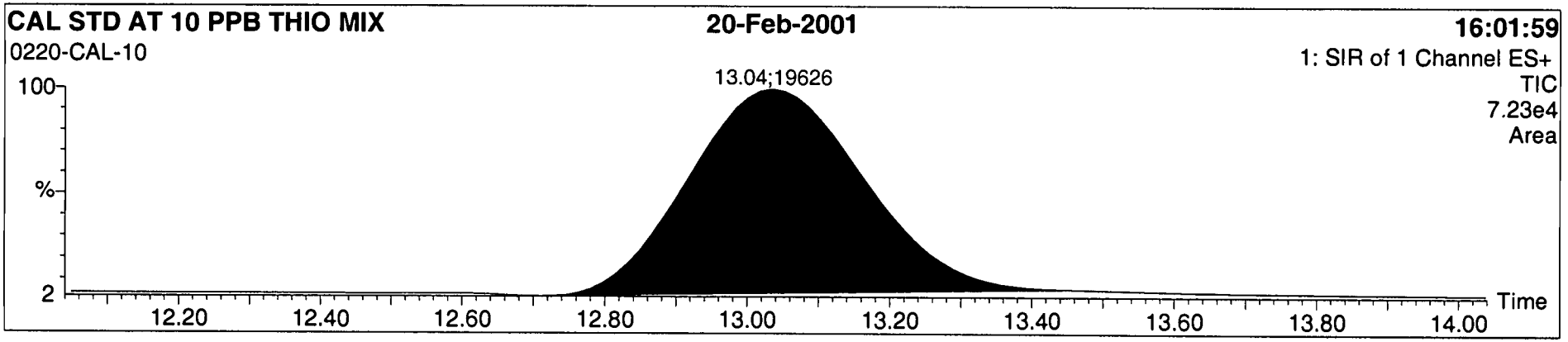
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

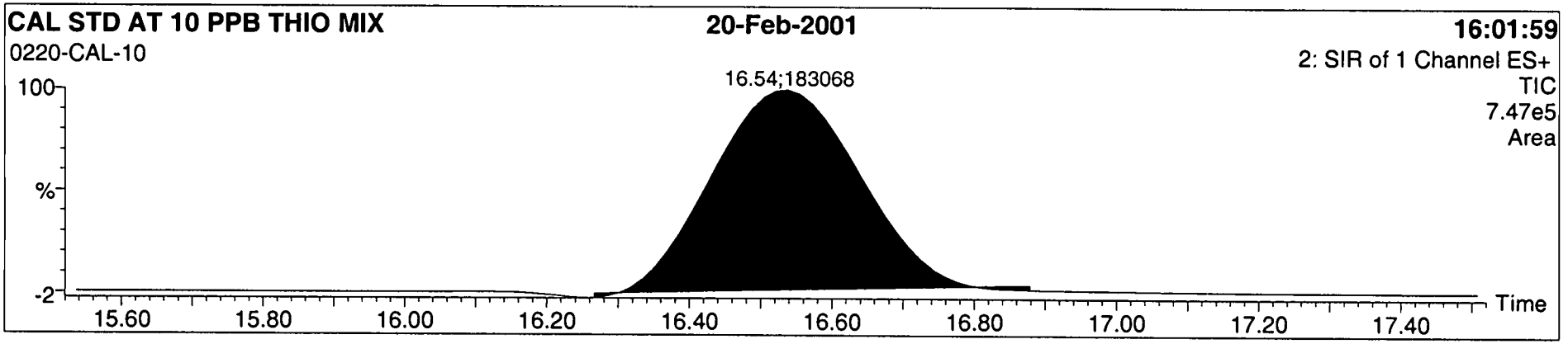
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CAL-10
Text: BUFFERED W/MCAA 10 PPB 60:40

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CAL-10
Text: BUFFERED W/MCAA 10 PPB 60:40

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	765	13.03	19626	19626	bb	10.214
2	Thiram	89	16.54	183068	183068	bb	9.967

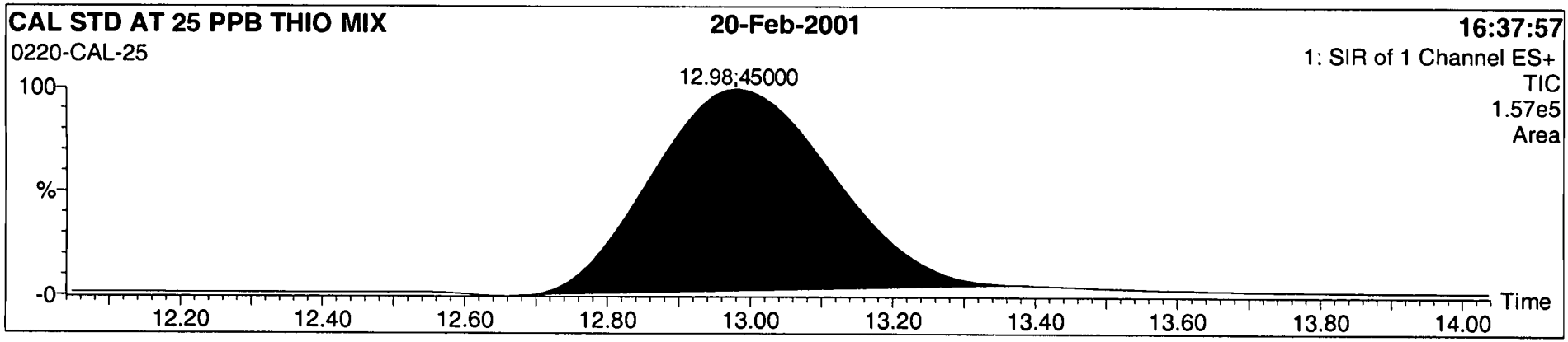
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

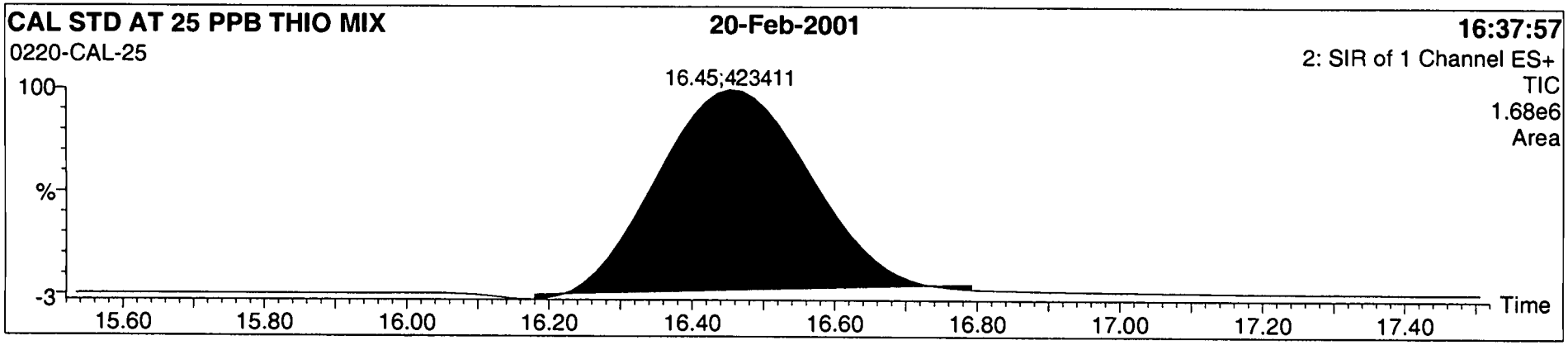
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CAL-25
Text: BUFFERED W/MCAA 25 PPB 60:40

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CAL-25
Text: BUFFERED W/MCAA 25 PPB 60:40

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	762	12.98	45000	45000	bb	24.969
2	Thiram	84	16.45	423411	423411	bb	25.003

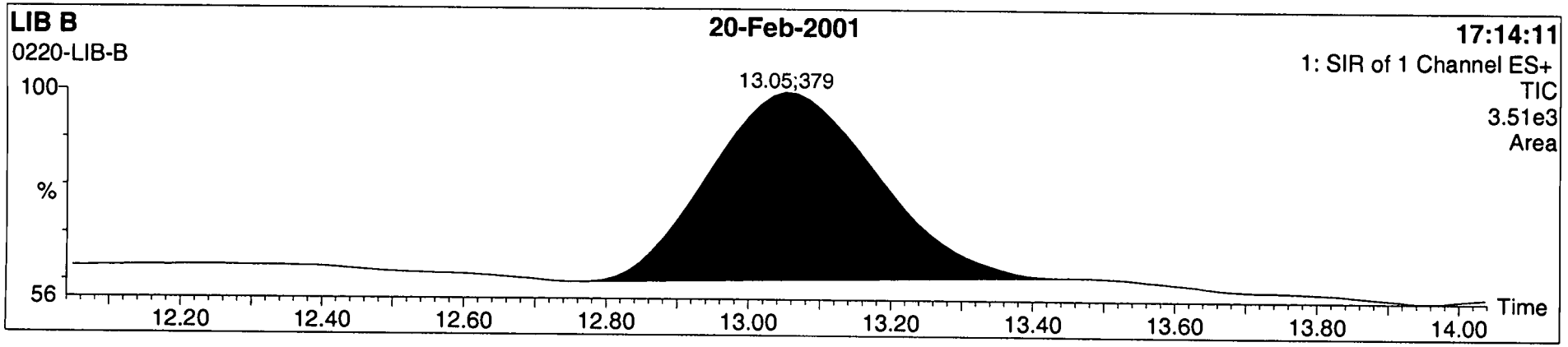
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

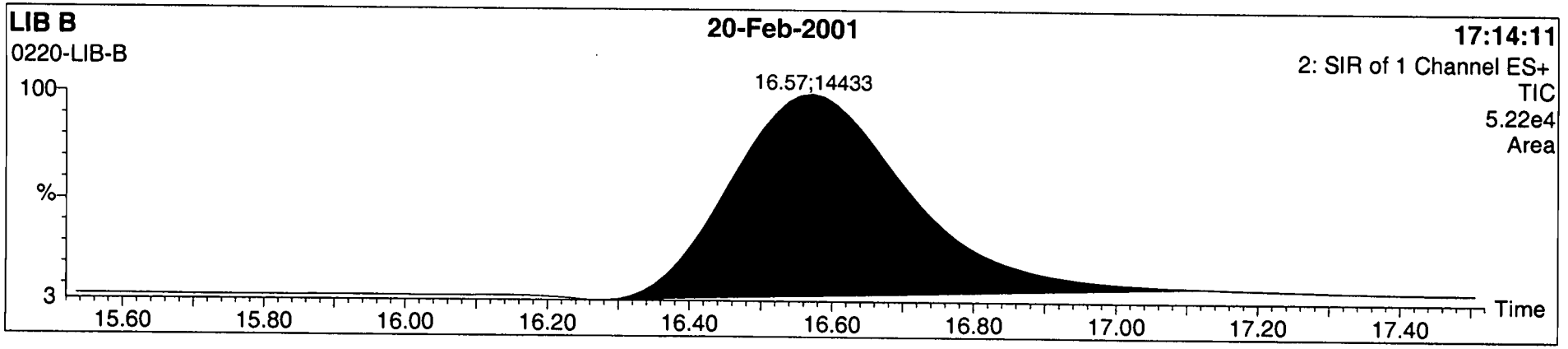
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-LIB-B
Text: 07-18-00 LIB B

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-LIB-B
Text: 07-18-00 LIB B

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	766	13.05	379	379	bb	0.424
2	Thiram	91	16.57	14433	14433	bb	0.760

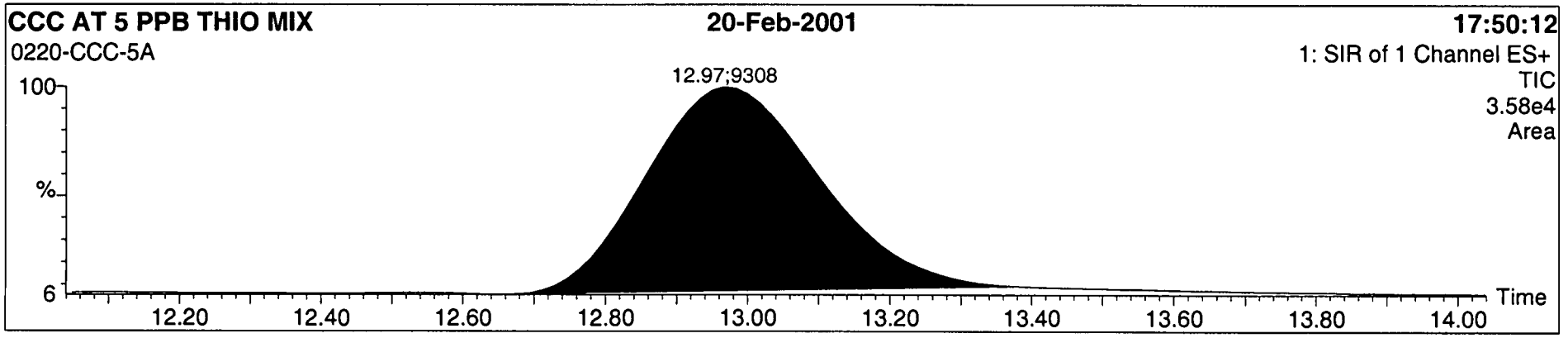
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

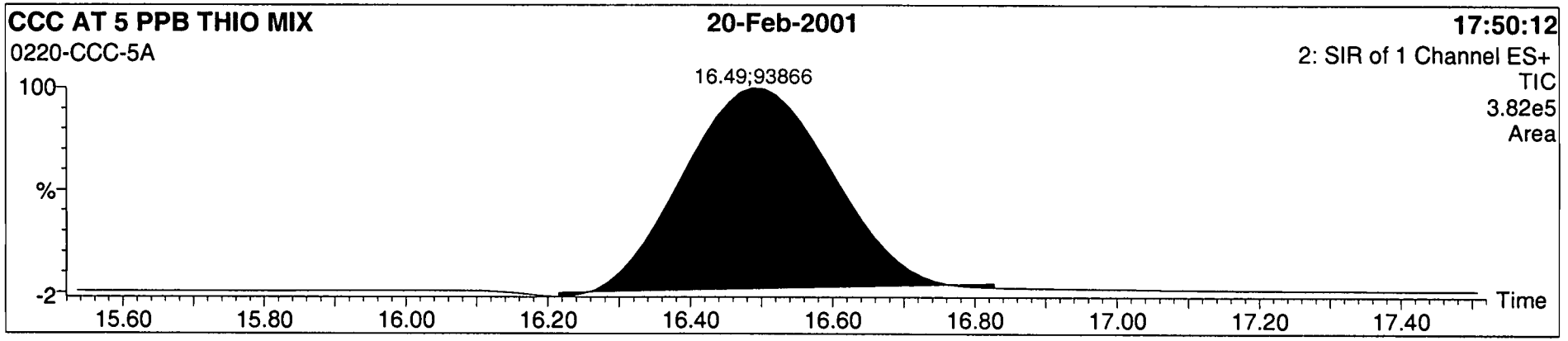
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CCC-5A
Text: BUFFERED W/MCAA & DILUTED 1:1 0.5 PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CCC-5A
Text: BUFFERED W/MCAA & DILUTED 1:1 0.5 PPB

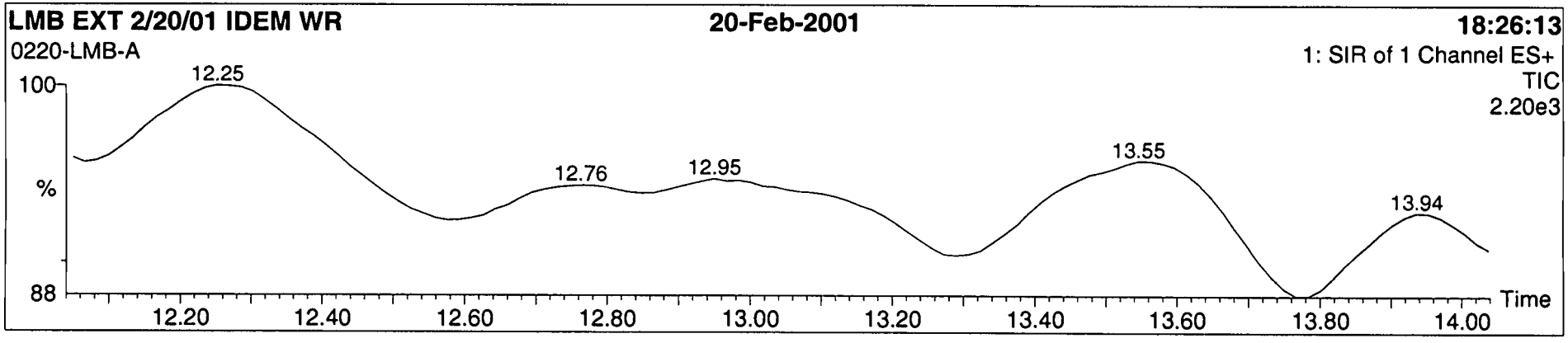
#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	761	12.97	9308	9308	bb	4.845
2	Thiram	86	16.49	93866	93866	bb	4.986

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

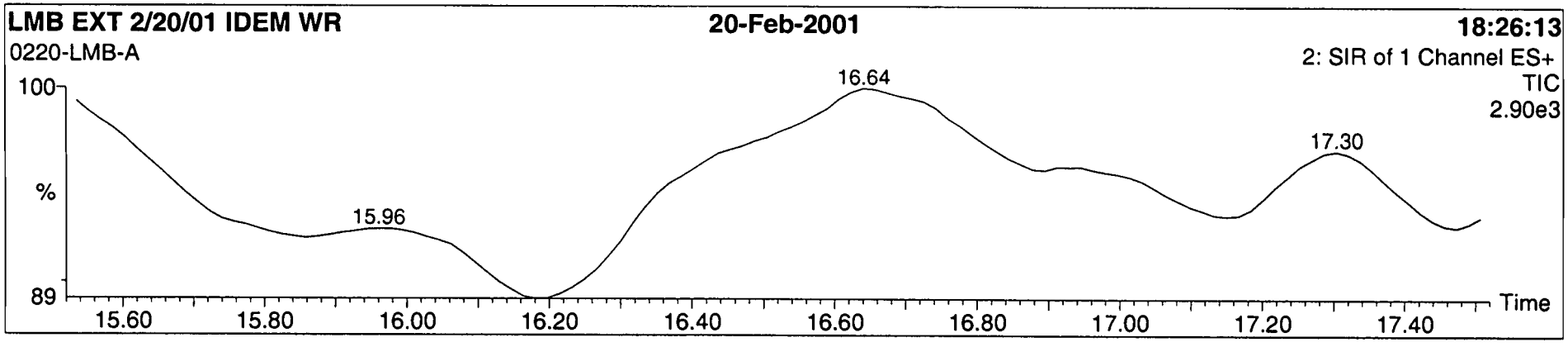
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-LMB-A
Text: BUFFERED W/MCAA & DILUTED 1:1 1.0 PPB

1: Thiuram



2: Thiram



000621

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-LMB-A
Text: BUFFERED W/MCAA & DILUTED 1:1 1.0 PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

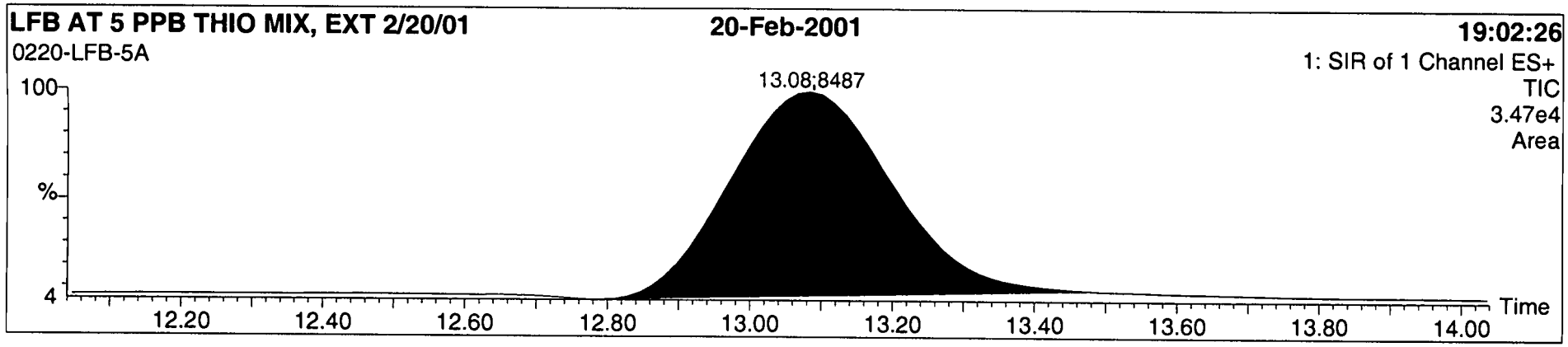
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

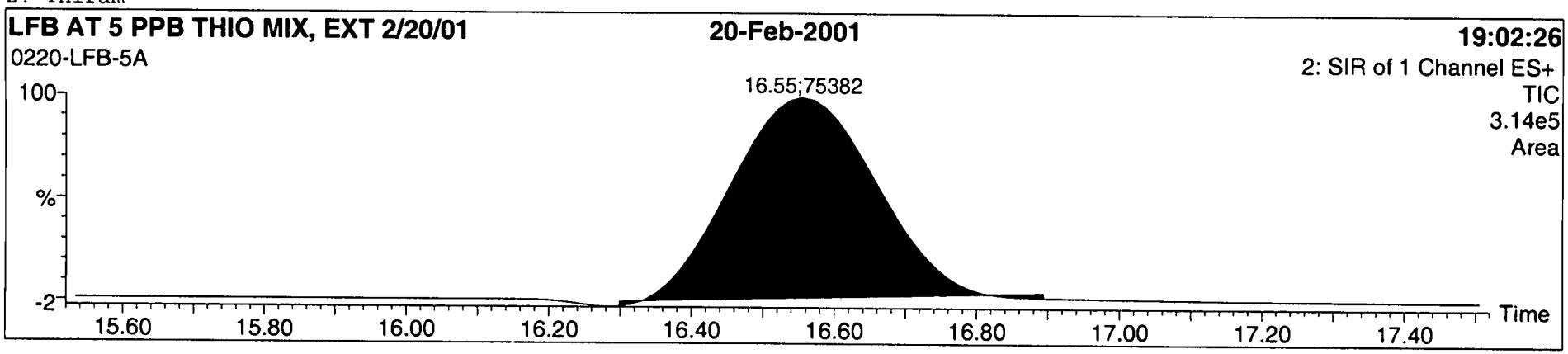
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-LFB-5A
Text: BUFFERED W/MCAA_DILUTED 1:1 2.5 PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-LFB-5A
Text: BUFFERED W/MCAA_DILUTED 1:1 2.5 PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	768	13.08	8487	8487	bb	4.430
2	Thiram	90	16.55	75382	75382	bb	3.986

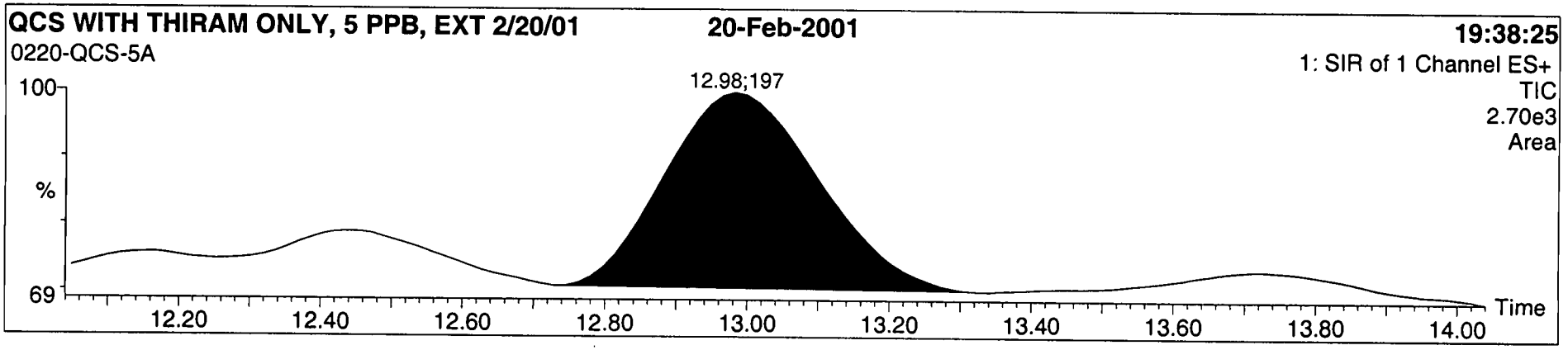
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

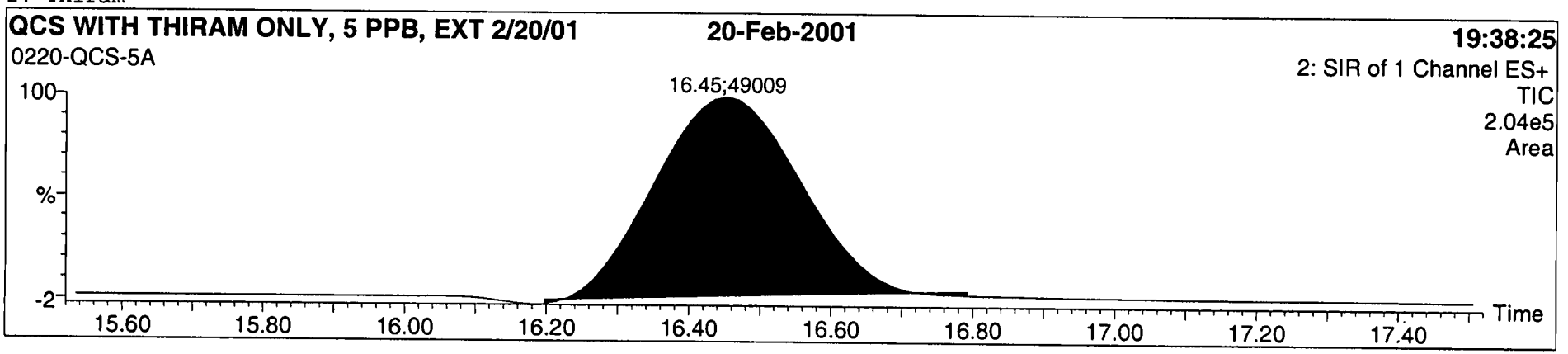
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-QCS-5A
Text: BUFFERED W/MCAA_DILUTED 1:1 5.0 PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-QCS-5A
Text: BUFFERED W/MCAA_DILUTED 1:1 5.0 PPB

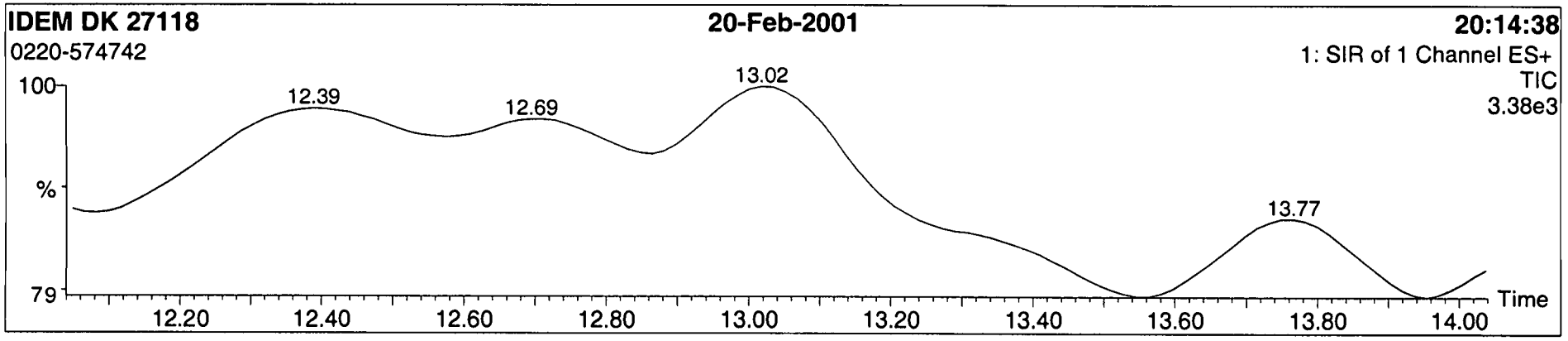
#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	762	12.98	197	197	bb	0.335
2	Thiram	84	16.45	49009	49009	bb	2.577

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

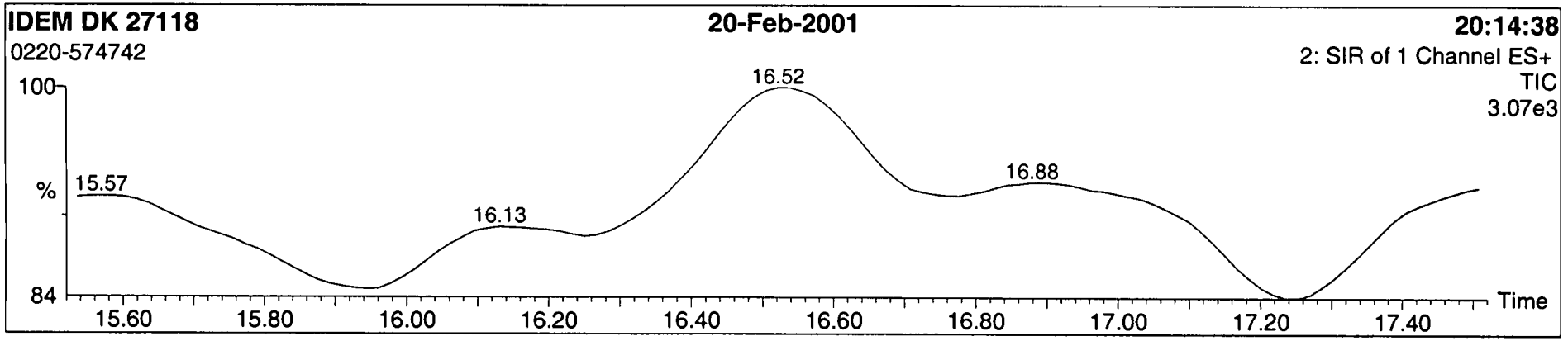
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-574742
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

1: Thiuram



2: Thiram



Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-574742
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

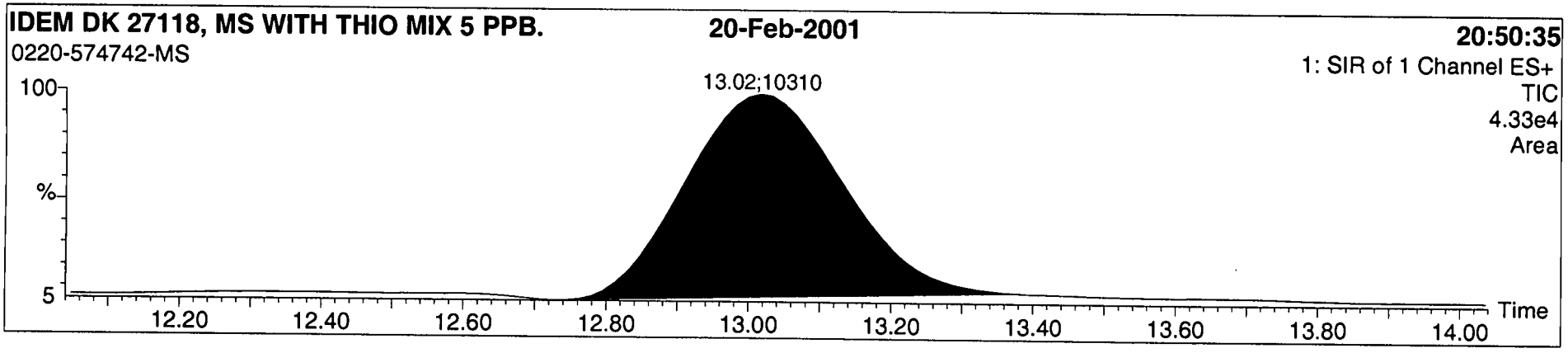
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

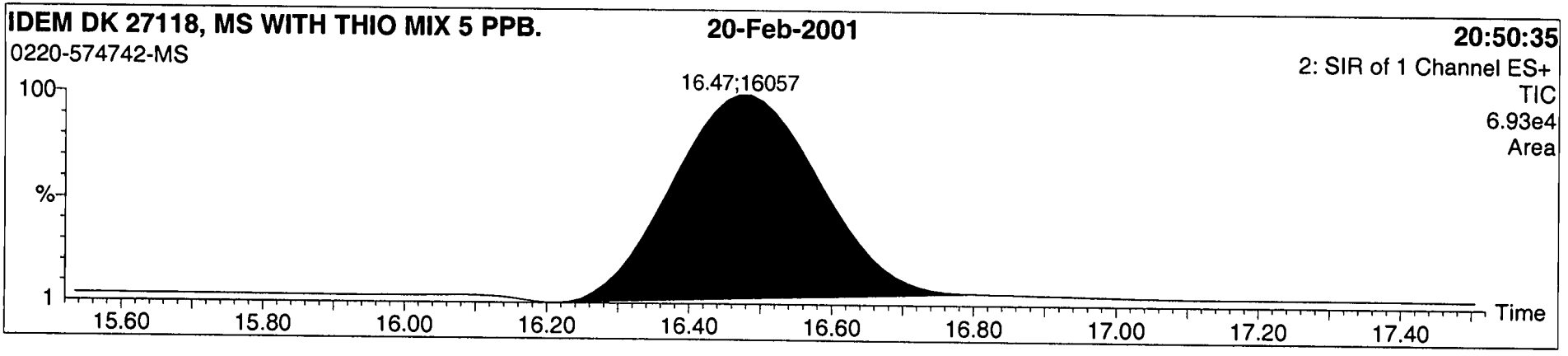
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-574742-MS
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-574742-MS
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	764	13.02	10310	10310	bb	5.353
2	Thiram	85	16.47	16057	16057	bb	0.845

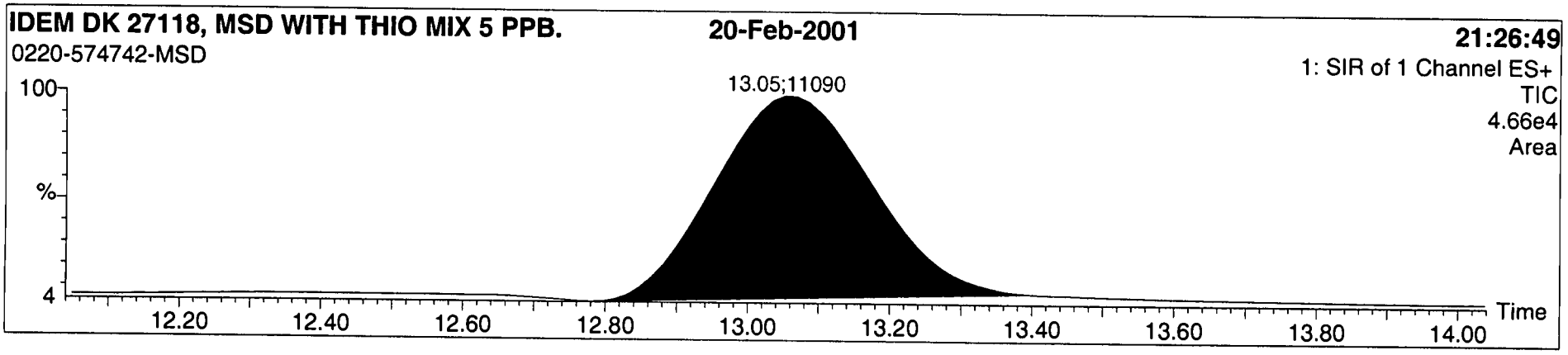
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

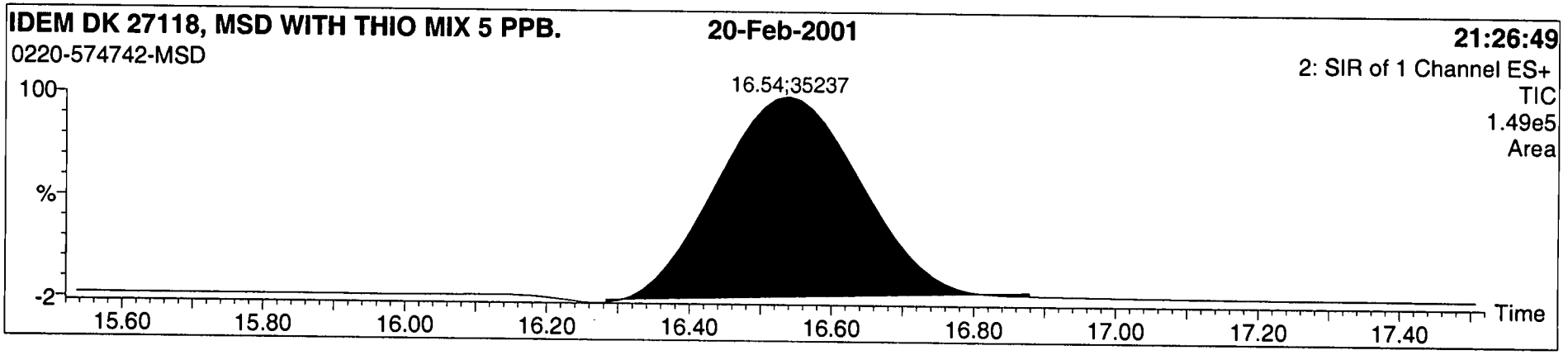
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-574742-MSD
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-574742-MSD
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	766	13.05	11090	11090	bb	5.751
2	Thiram	89	16.54	35237	35237	bb	1.850

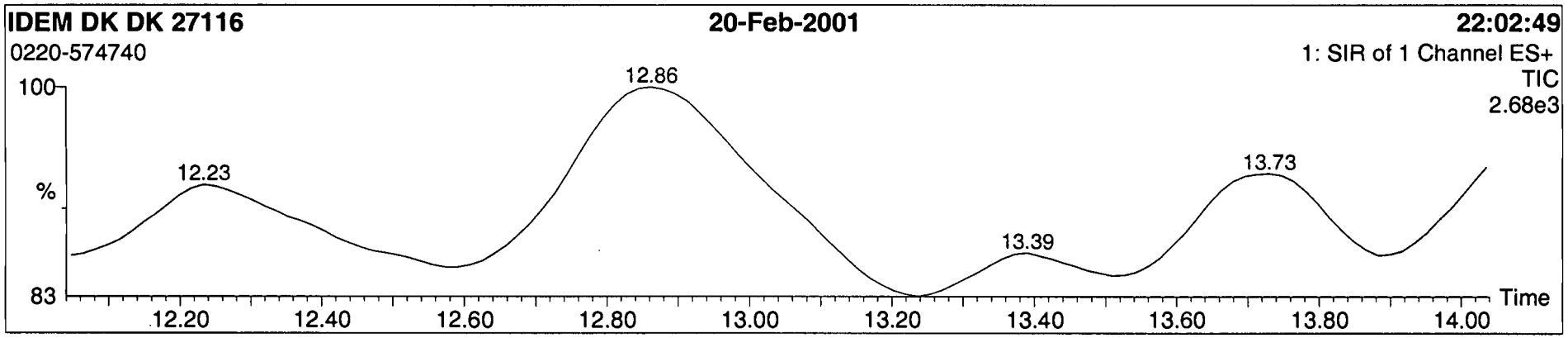
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

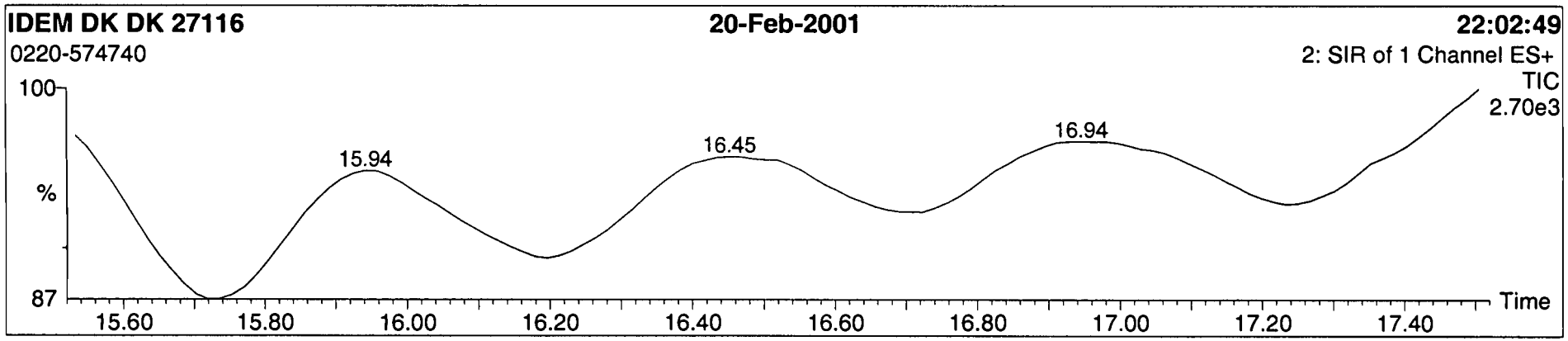
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-574740
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-574740
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

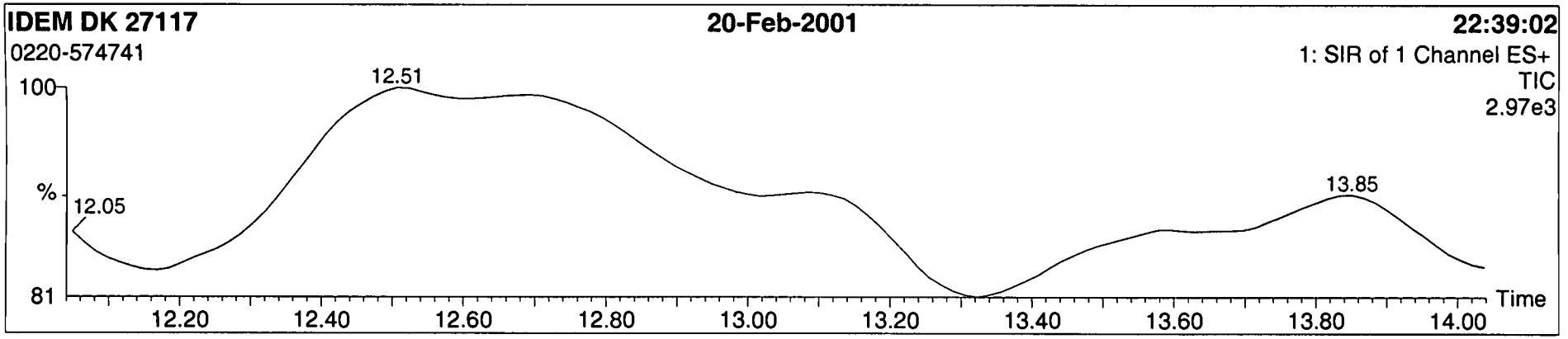
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

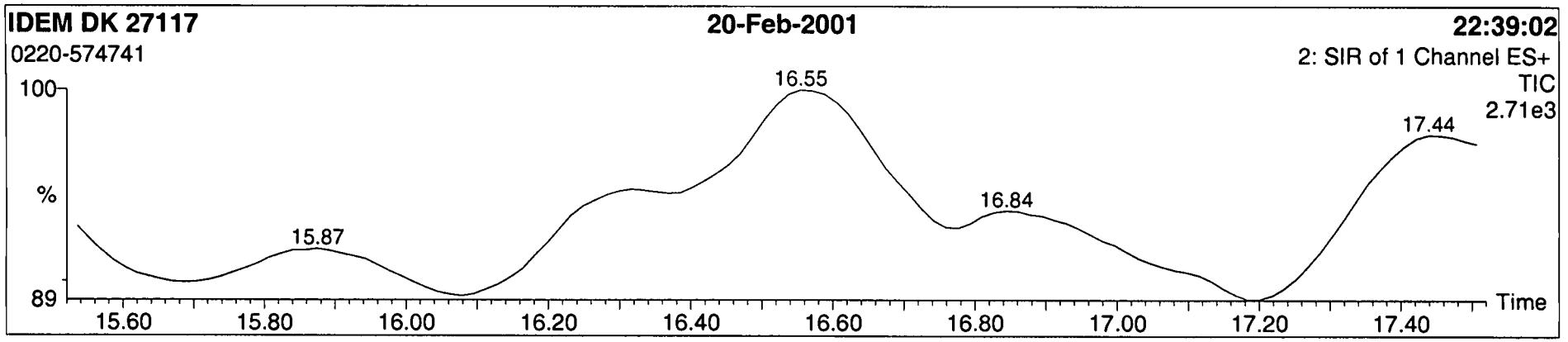
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-574741
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-574741
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

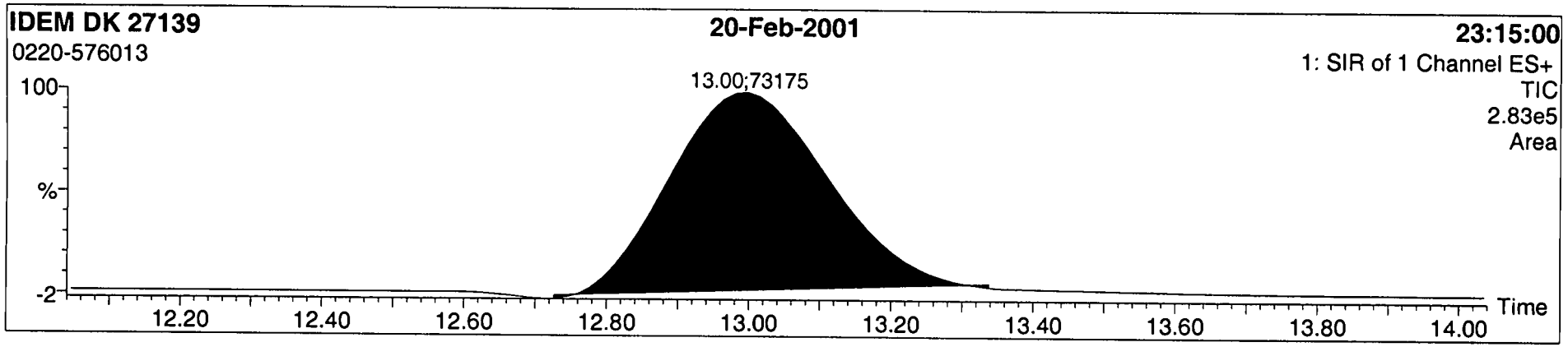
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

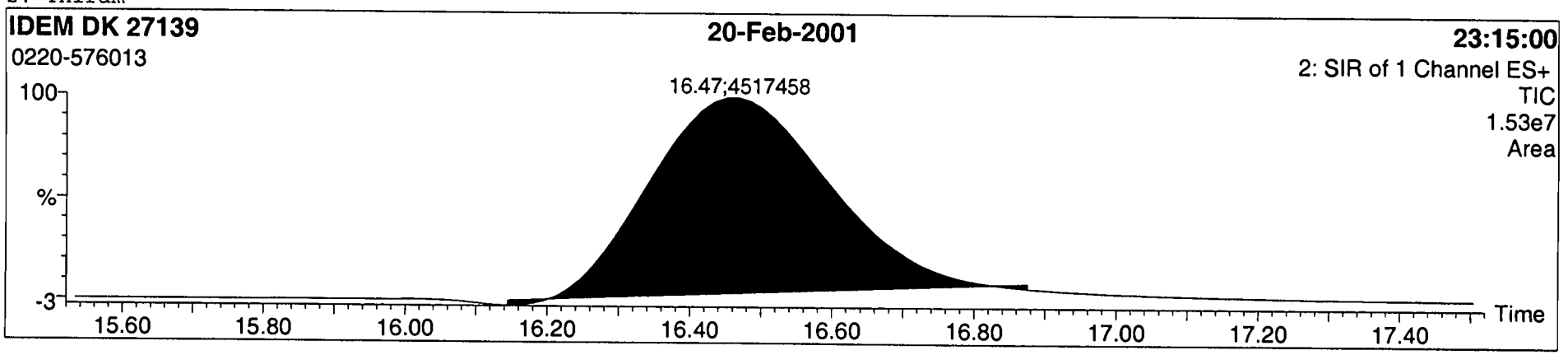
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-576013
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-576013
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

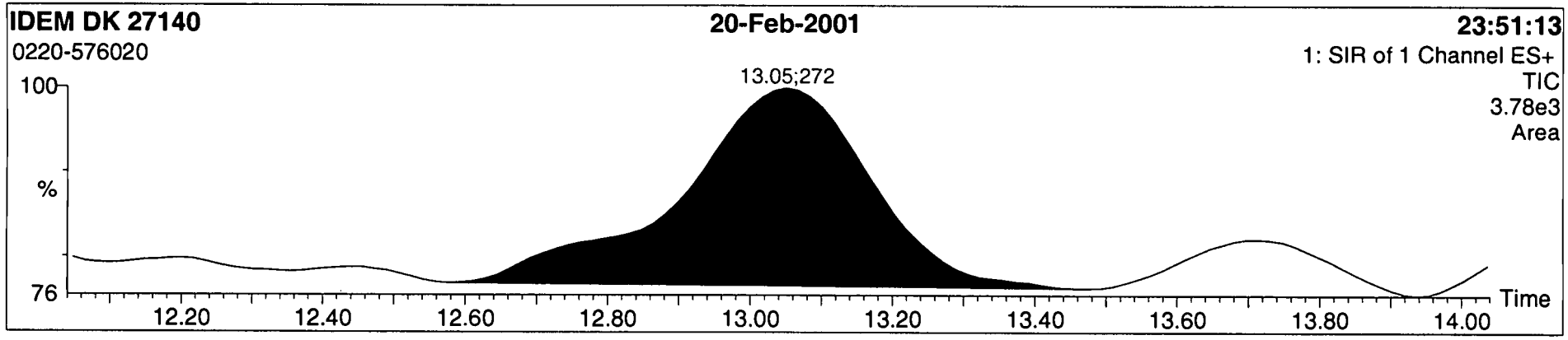
#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	763	13.00	73175	73175	bb	45.612
2	Thiram	85	16.47	4517458	4517458	bbI	

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

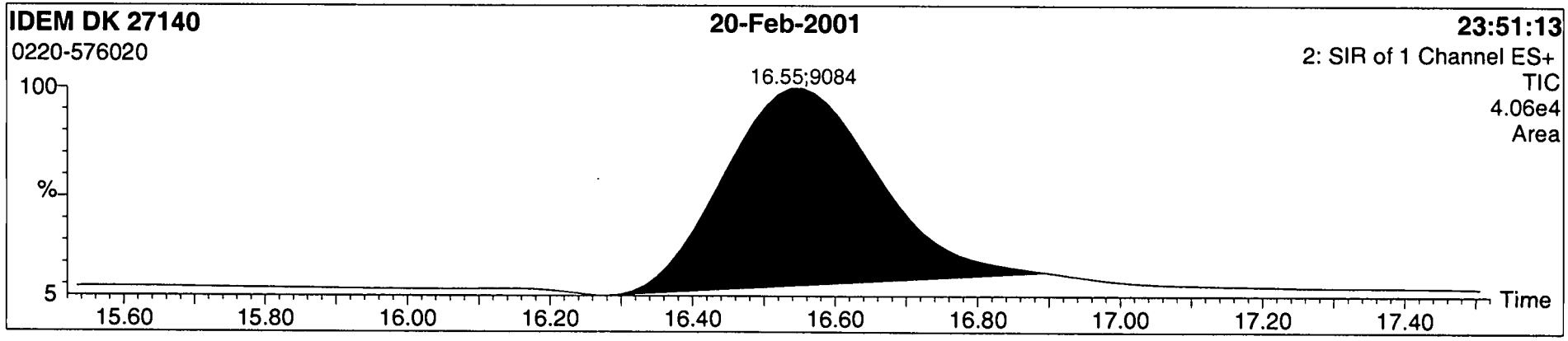
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-576020
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

1: Thiuram



2: Thiram



000639

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-576020
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	766	13.05	272	272	bb	0.372
2	Thiram	90	16.55	9084	9084	bb	0.482

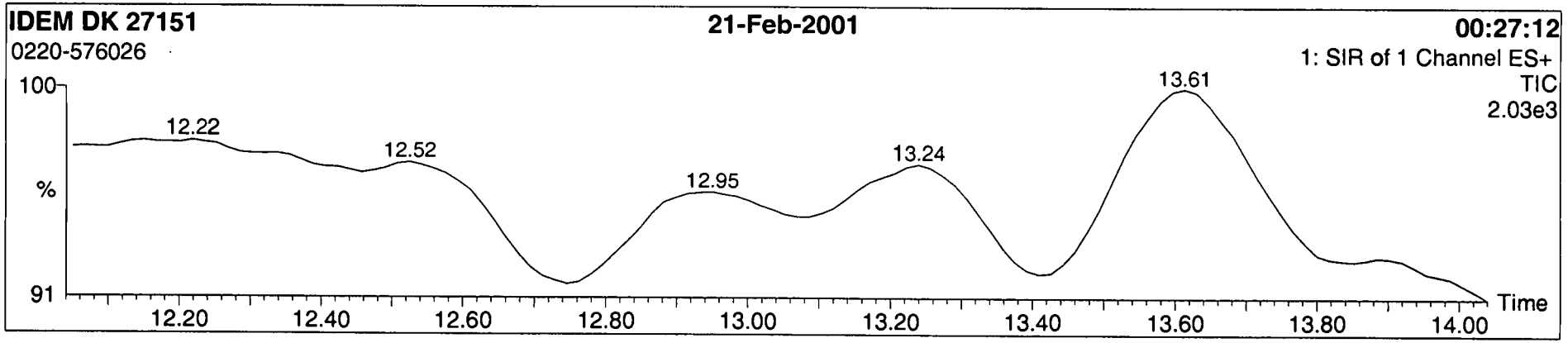
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

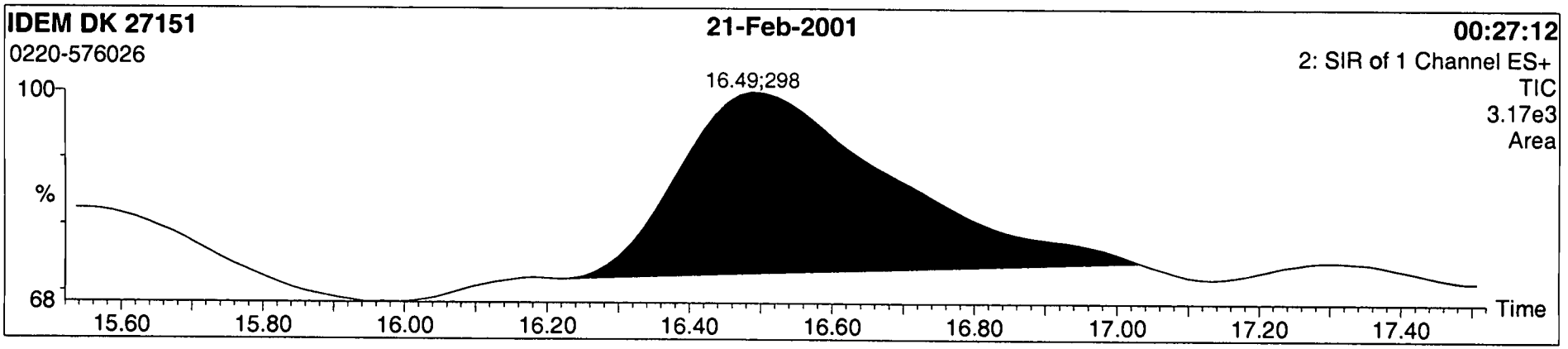
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-576026
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-576026
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram	86	16.49	298	298	bb	0.027

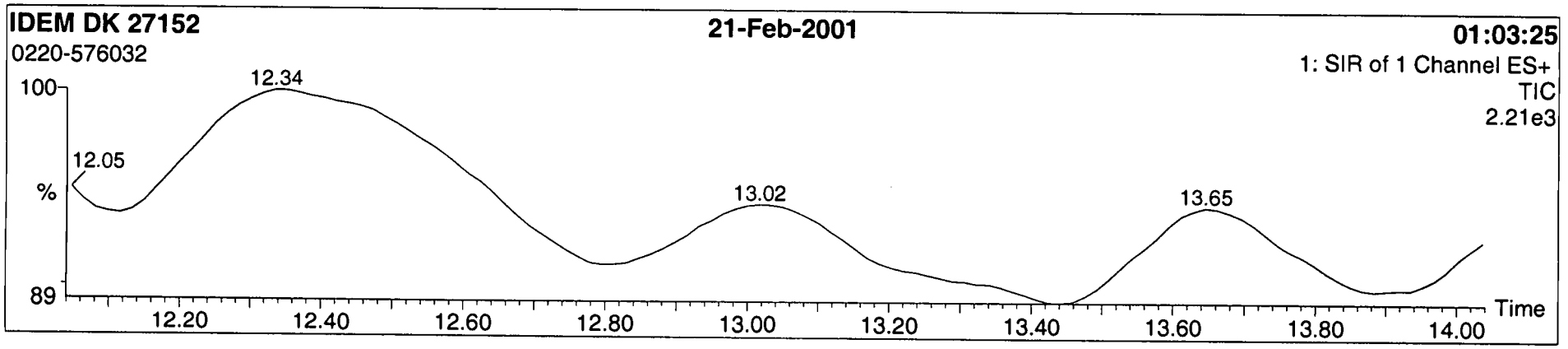
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

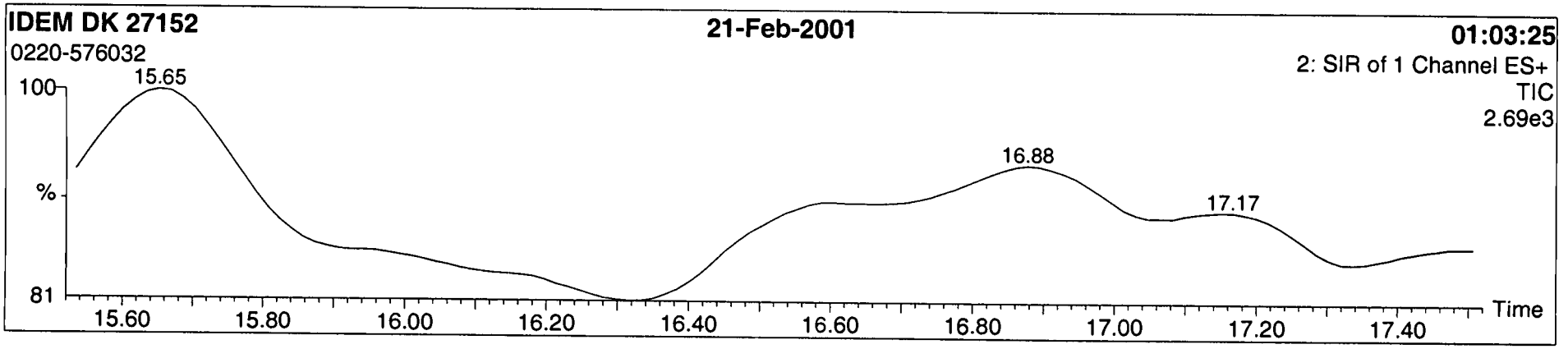
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-576032
Text: BUFFERED W/MCAA_DILUTED 1:1 25 PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-576032
Text: BUFFERED W/MCAA_DILUTED 1:1 25 PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

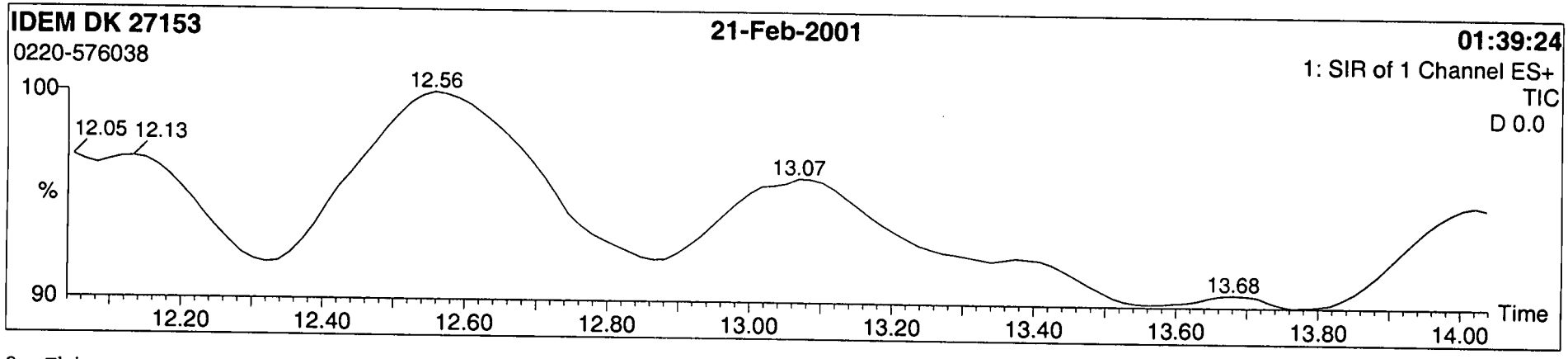
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

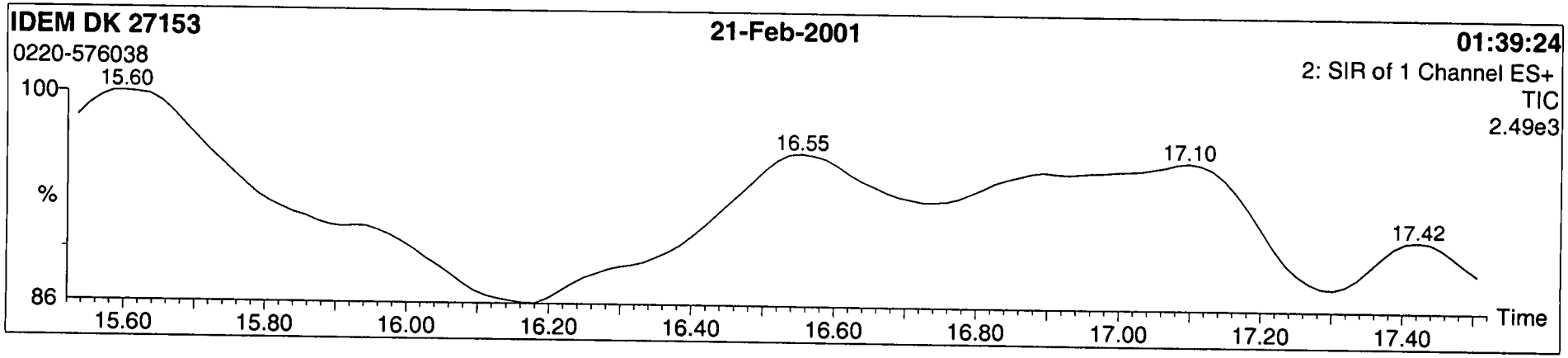
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-576038
Text: 512857 EXT SPK AT 5 PPB THIOMIX

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-576038
Text: 512857 EXT SPK AT 5 PPB THIOMIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

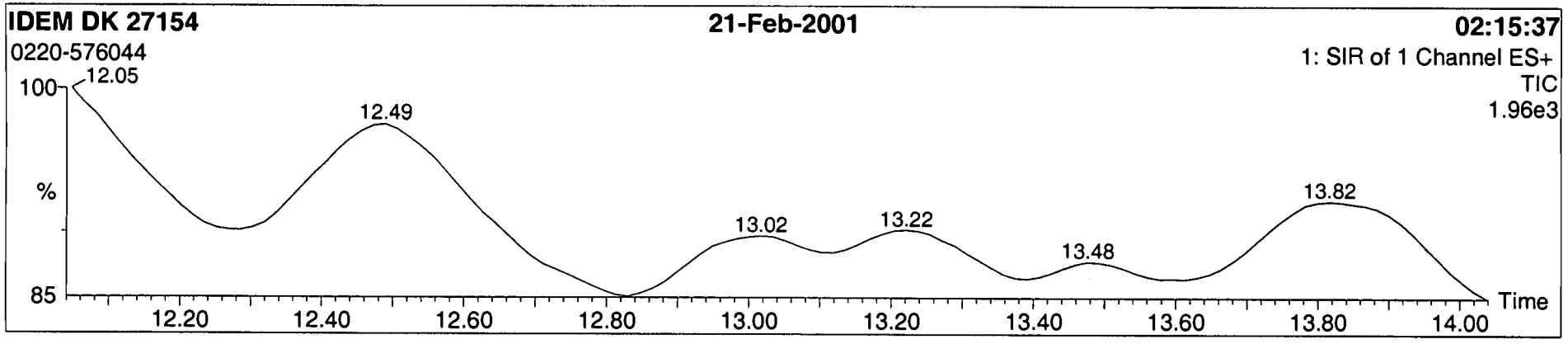
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

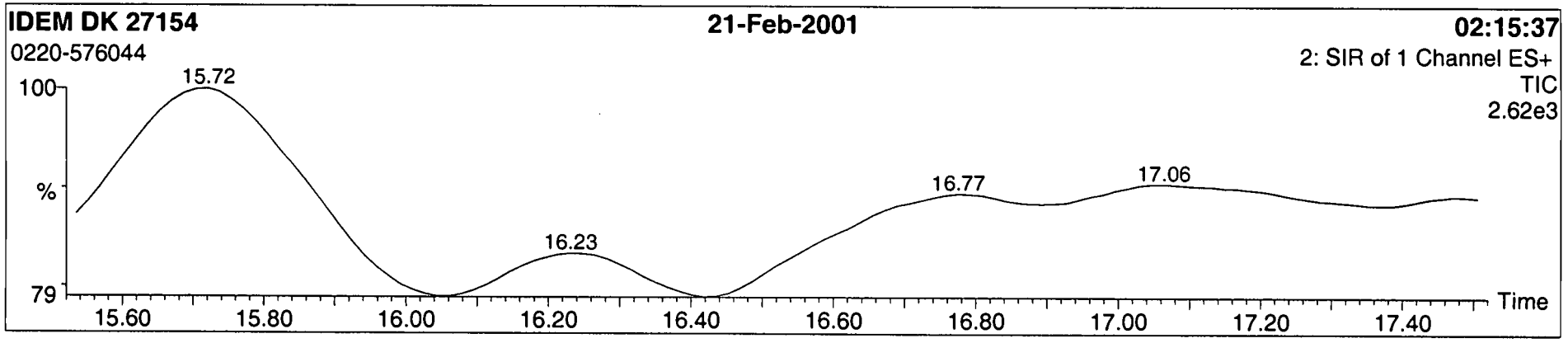
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-576044
Text: 512857 EXT SPK AT 5 PPB THIOMIX

1: Thiuram



2: Thiram



000647

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-576044
Text: 512857 EXT SPK AT 5 PPB THIOMIX

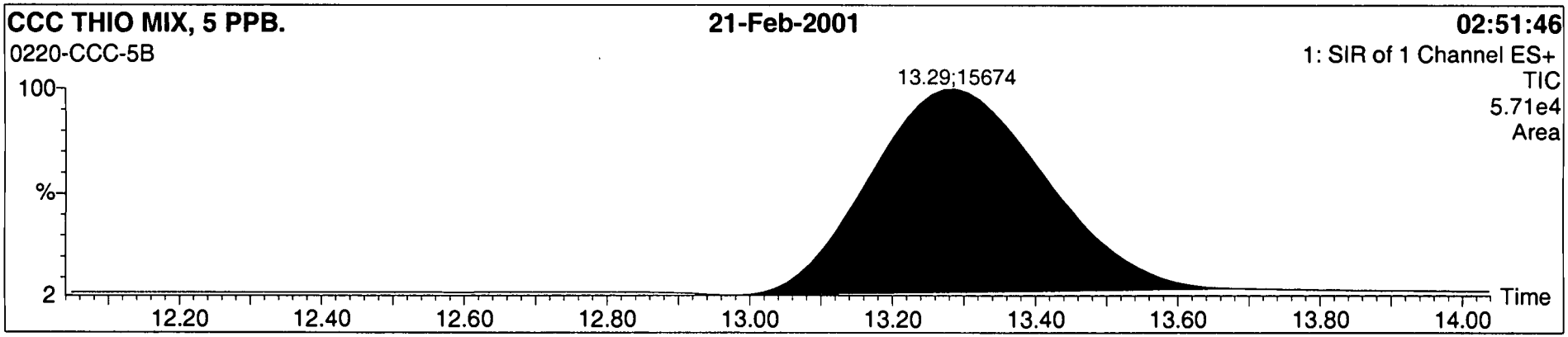
#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

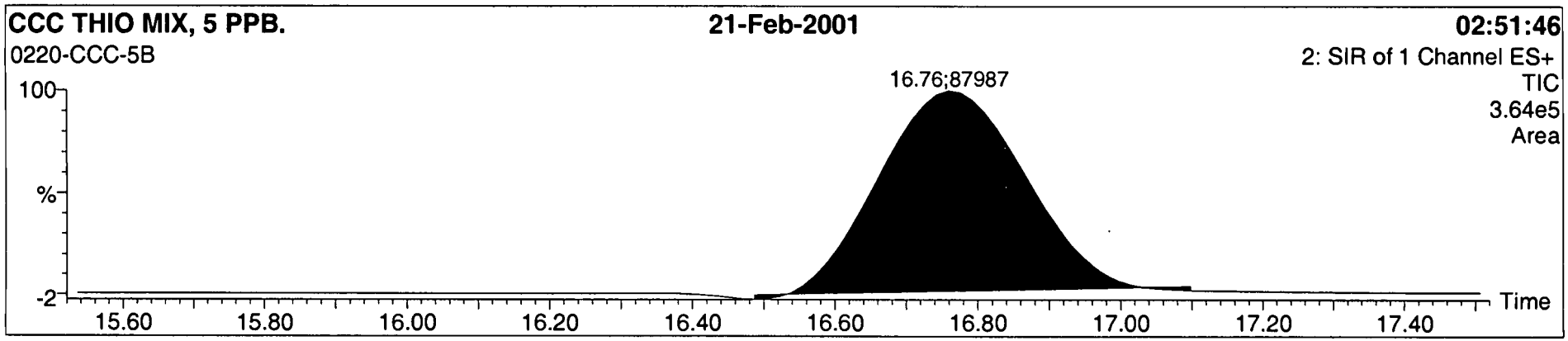
Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CCC-5B
Text: 512857 EXT SPK AT 5 PPB THIOMIX

1: Thiuram



2: Thiram



Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022001a
Last modified: Tue Feb 20 12:54:25 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Wed Feb 21 07:33:52 2001
Job Code:

Printed: Wed Feb 21 07:44:38 2001

Name: 0220-CCC-5B
Text: 512857 EXT SPK AT 5 PPB THIOMIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	780	13.29	15674	15674	bb	8.122
2	Thiram	102	16.76	87987	87987	bb	4.667

THIRAM / THIURAM
CONTINUING CALIBRATION CHECK

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Contract: BAA 97-044
Task: SAS
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm
CCC Data File: CCC-5a

All concentrations are in ug/L

Compound	Target Conc	Observed Conc	Percent Recovery	Acceptance Limits	P / F	Q
Thiram	5.0	4.582	91.6	70 - 130	Pass	
Thiuram	5.0	5.238	105	70 - 130	Pass	

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

THIRAM / THIURAM
CONTINUING CALIBRATION CHECK

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Contract: BAA 97-044
Task: SAS
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm
CCC Data File: CCC-5b

All concentrations are in ug/L

Compound	Target Conc	Observed Conc	Percent Recovery	Acceptance Limits	P / F	Q
Thiram	5.0	4.321	86.4	70 - 130	Pass	
Thiuram	5.0	5.662	113	70 - 130	Pass	

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

THIRAM / THIURAM
LABORATORY FORTIFIED BLANK

Lab Name: Environmental Health Laboratories
Contract: BAA 97-044
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Column: XTerra MS, C18, 2.1mm x 4.6cm

Lab ID: unknown
Task: SAS
Case: n/a

All concentrations are in ug/L

Compound	Target Conc	Observed Conc	Percent Recovery	Acceptance Limits	P / F	Q
Thiram	5.0	3.498	70.0	70 - 130	Pass	
Thiuram	5.0	4.076	81.5	70 - 130	Pass	

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

THIRAM
QUALITY CONTROL SAMPLE

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Contract: BAA 97-044
Task: SAS
Project: OK 27139 - OK 27140 & OK 27151 - OK 27154
Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm

All concentrations are in ug/L

Compound	Target Conc	Observed Conc	Percent Recovery	Acceptance Limits	P / F	Q
Thiram	5.0	4.291	85.8	70 - 130	Pass	

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments: _____

THIRAM / THIURAM
DATA SHEET

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Date Received: 02/17/01
Contract: BAA 97-044
Task: SAS
Date Analyzed: 02/21/01
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm
Dilution Factor: 10
Matrix Code: WW
Data File/Smpl ID: 576013D1
Data File/Dupl ID:
Sample Number/Description: DK 27139

Compound	Sample Concentration	Units
Thiuram	33	ug/L

Duplicate Concentration	Units	Q

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

THIRAM / THIURAM
DATA SHEET

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Date Received: 02/17/01
Contract: BAA 97-044
Task: SAS
Date Analyzed: 02/21/01
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm
Dilution Factor: 100
Matrix Code: WW
Data File/Smpl ID: 576013D2
Data File/Dupl ID:
Sample Number/Description: DK 27139

Compound	Sample Concentration	Units
Thiram	194	ug/L

Duplicate Concentration	Units	Q

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

THIRAM / THIURAM
DATA SHEET

Lab Name: Environmental Health Laboratories
Lab ID: unknown
Date Received: 02/17/01
Contract: BAA 97-044
Task: SAS
Date Analyzed: 02/21/01
Project: DK 27139 - DK 27140 & DK 27151 - DK 27154
Case: n/a
Column: XTerra MS, C18, 2.1mm x 4.6cm
Matrix Code: WW
Data File/Smpl ID: 576020
Data File/Dupl ID:
Sample Number/Description: DK 27140

Compound	Sample Concentration	Units
Thiram	**0.6**	**ug/L**
Thiuram	< 0.5	ug/L

Duplicate Concentration	Units	Q

Q = A flag or qualifier indicating possible cause(s) for an out of range or failed result.

Comments:

DETERMINATION OF METHOD DETECTION LIMITS
Thiram and Thiuram by Electrospray(+) LC/MS

Lab Name: Environmental Health Laboratories
Contract: NA
Project: Routine MDLs
Column: XTerra MS, C18, 2.1mm x 4.6cm
Matrix Code: RW

Analyst: EG
Extractionist EG
Case : NA
Date: 19-Sep-00

Acq. File: C:\BI\IDEM-WR
Data Directory: C:\BI\IDEM-WR.PRO\Sample DB
Initial Cali Data: C:\BI\IDEM-WR.PRO\Sample DB
Instrument ID: LC/MS BI

EHL ID#		NA	NA	NA	NA	NA	NA	NA				
Data File		0919MDLA	0919MDLB	0919MDLC	0919MDLD	0919MDLE	0919MDLF	0919MDLG				
Analysis Date		09/19/00	09/19/00	09/19/00	09/19/00	09/19/00	09/19/00	09/19/00				
Parameter	Target 1.0 ppb	Rep - 1	Rep - 2	Rep - 3	Rep - 4	Rep - 5	Rep - 6	Rep - 7	Average Recovery	Average %Recovery	Std. Deviation	Calc. MDL	Q
Thiram	1.0000	0.8100	0.8400	0.8100	0.7800	0.7100	0.8500	0.7700	0.7957	79.6	0.0476	0.1495	
Thiuram	1.0000	1.0400	1.1800	1.2500	1.1500	1.1700	1.2300	1.2500	1.1814	118.1	0.0740	0.2327	

Q = The calculated MDL is not valid according to 40 CFR Part 136 appendix B

PURPOSE OF THE STUDY: MDLs--100 ml sample analyzed using EHL SOP.

Quantify Sample Summary Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:55 2001

Sample Name: 0221-LIB-A Sample ID: LIB FOR IDEM THIRAM/THIURAM SAMPLES

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

Sample Name: 0221-CAL-0_5 Sample ID: CAL STD AT 0.5 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	761	12.97	87	87	bb	0.336
2	Thiram	83	16.43	3839	3839	bb	0.377

Sample Name: 0221-CAL-1 Sample ID: CAL STD AT 1.0 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	768	13.08	895	895	bb	0.961
2	Thiram	91	16.57	16825	16825	bb	0.900

Sample Name: 0221-CAL-2_5 Sample ID: CAL STD AT 2.5 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	768	13.08	2922	2922	bb	2.521
2	Thiram	90	16.55	58485	58485	MM	2.622

Sample Name: 0221-CAL-5 Sample ID: CAL STD AT 5 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	772	13.15	5869	5869	bb	4.767
2	Thiram	96	16.66	106940	106940	MM	4.715

Quantify Sample Summary Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:55 2001

Sample Name: 0221-CAL-10 Sample ID: CAL STD AT 10 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	769	13.10	13095	13095	bb	10.162
2	Thiram	91	16.57	222343	222343	MM	10.195

Sample Name: 0221-CAL-25 Sample ID: CAL STD AT 25 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	771	13.14	33984	33984	bb	24.984
2	Thiram	96	16.66	451081	451081	MM	24.967

Sample Name: 0221-LIB-B Sample ID: LIB B

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	772	13.15	159	159	bb	0.392
2	Thiram	97	16.67	4957	4957	bb	0.421

Sample Name: 0221-CCC-5A Sample ID: CCC AT 5 PPB THIO MIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	769	13.10	6492	6492	bb	5.238
2	Thiram	95	16.64	103922	103922	MM	4.582

Sample Name: 0221-LMB-A Sample ID: LMB EXT 2/20/01 IDEM WR

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	731	12.46	46	46	bb	0.304
2	Thiram						

Quantify Sample Summary Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:55 2001

Sample Name: 0221-LFB-5A Sample ID: LFB AT 5 PPB THIO MIX, EXT 2/20/01

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	777	13.24	4959	4959	bb	4.076
2	Thiram	100	16.72	79059	79059	MM	3.498

Sample Name: 0221-QCS-5A Sample ID: QCS WITH THIRAM ONLY, UNEXTRACTED.

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	770	13.12	174	174	MM	0.403
2	Thiram	92	16.59	97310	97310	MM	4.291

Sample Name: 0221-576020R Sample ID: IDEM DK 27140, REPEAT INJECTION

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	767	13.07	36	36	MM	0.296
2	Thiram	92	16.59	8192	8192	bb	0.551

Sample Name: 0221-576013-D2 Sample ID: IDEM DK 27139, 1:100 DILUTION.

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	764	13.02	1039	1039	bb	1.072
2	Thiram	86	16.49	42263	42263	bb	1.943

Sample Name: 0221-576013-D1 Sample ID: IDEM DK 27139, 1:10 DILUTION

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	766	13.05	3884	3884	bb	3.257
2	Thiram	90	16.55	509836	509836	MM	30.985

Quantify Sample Summary Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

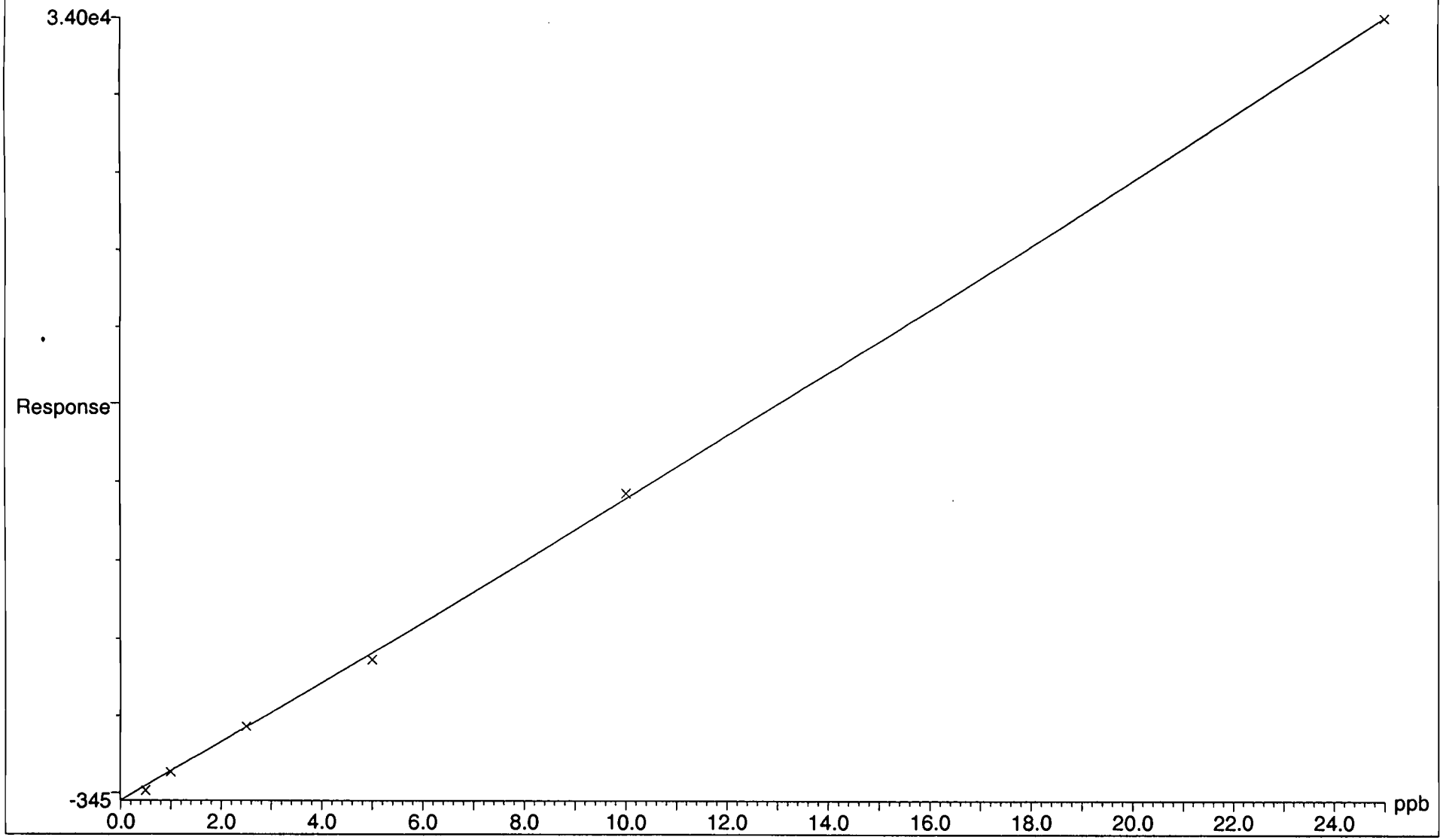
Printed: Fri Feb 23 08:57:55 2001

Sample Name: 0221-CCC-5B Sample ID: CCC THIO MIX, 5 PPB.

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	767	13.07	7054	7054	bb	5.662
2	Thiram	89	16.54	97993	97993	MM	4.321

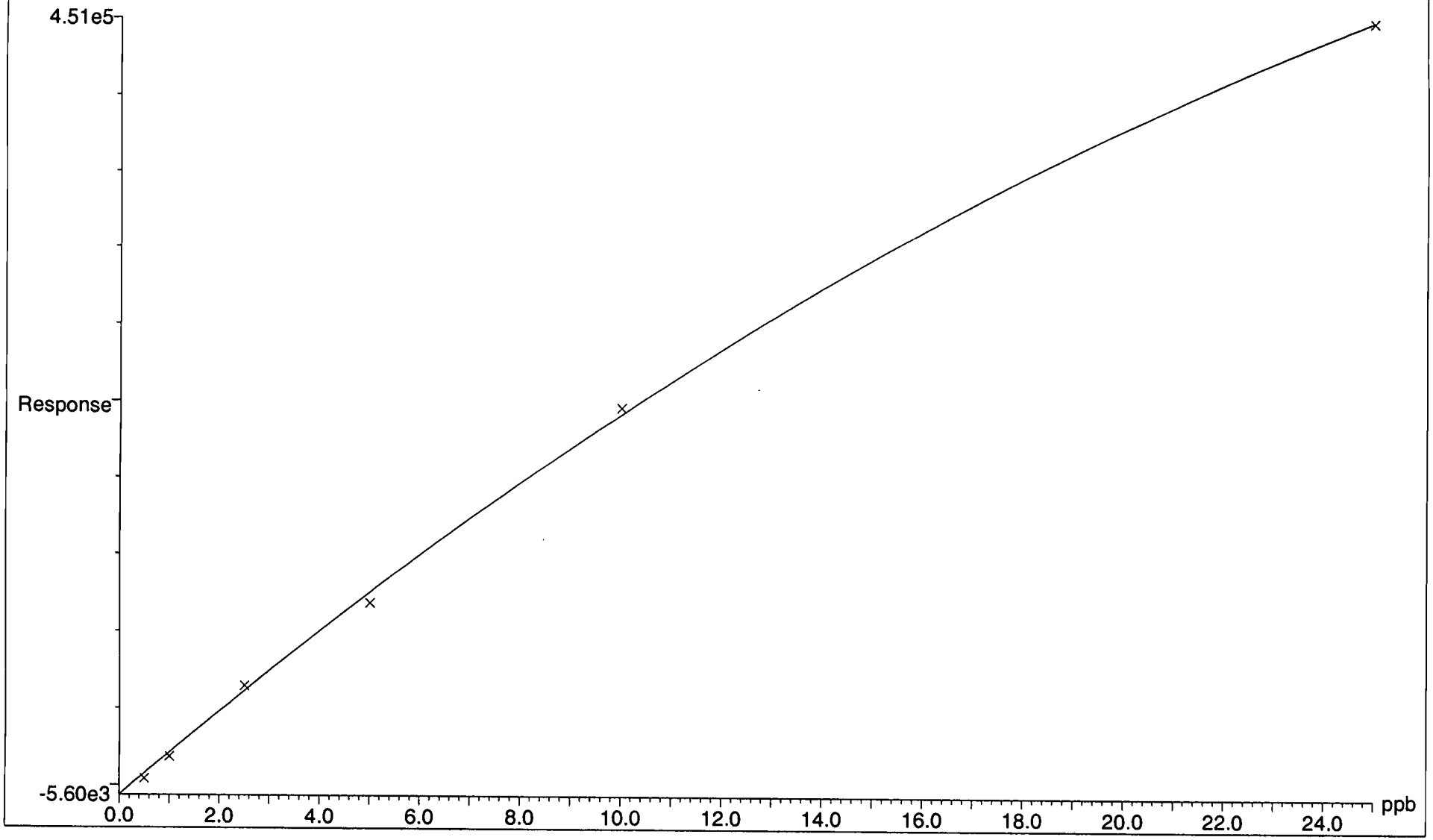
Quantify Calibration Report
Thiram and Thiuram by LC/MS

Compound 1 name: Thiuram
Coefficient of Determination: 0.999657
Calibration curve: 3.47580 * x^2 + 1287.20 * x + -345.375
Response type: External Std, Area
Curve type: 2nd Order, Origin: Include, Weighting: Null, Axis trans: None



Quantify Calibration Report
Thiram and Thiuram by LC/MS

Compound 2 name: Thiram
Coefficient of Determination: 0.999317
Calibration curve: -275.275 * x^2 + 25164.3 * x + -5599.45
Response type: External Std, Area
Curve type: 2nd Order, Origin: Include, Weighting: Null, Axis trans: None



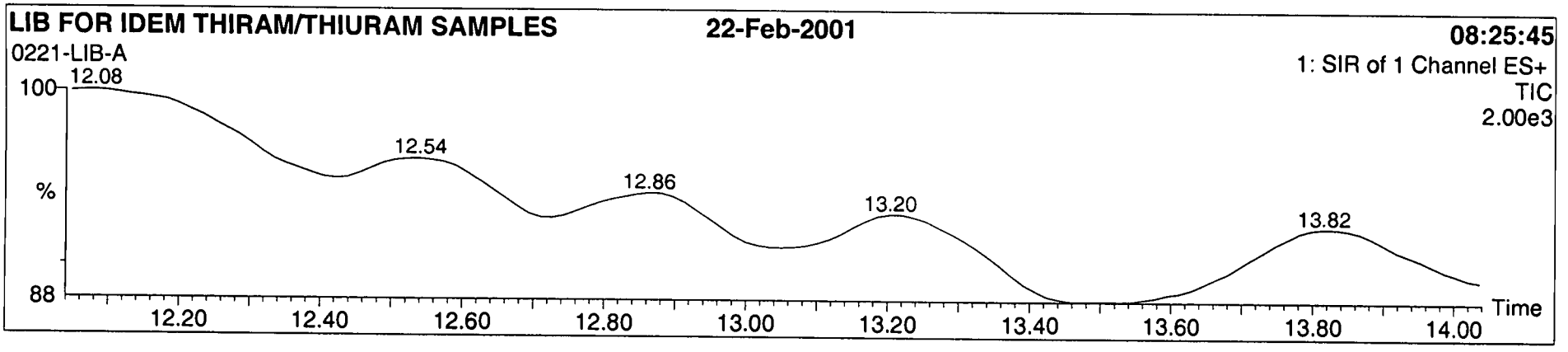
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

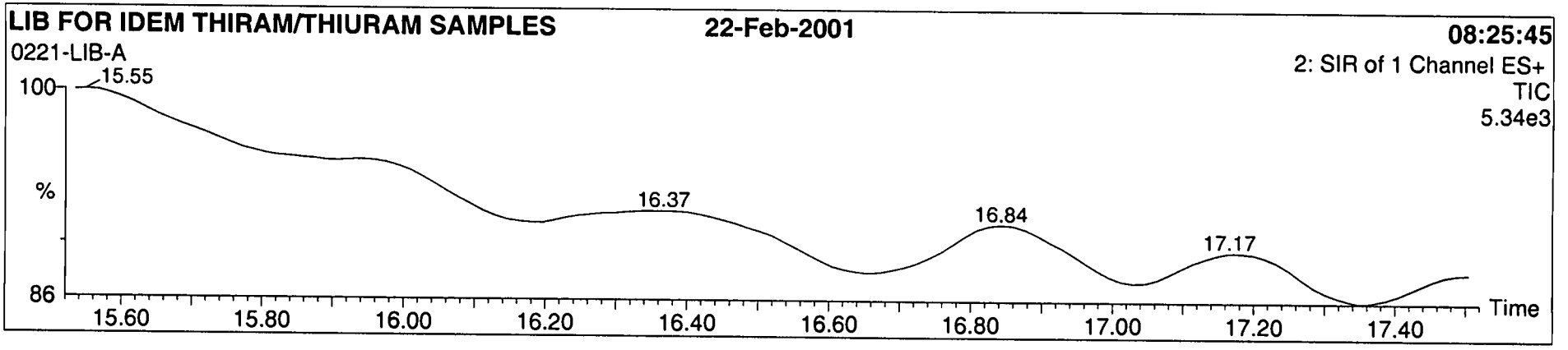
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-LIB-A
Text: 07-18-00 LIB A

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-LIB-A
Text: 07-18-00 LIB A

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram						
2	Thiram						

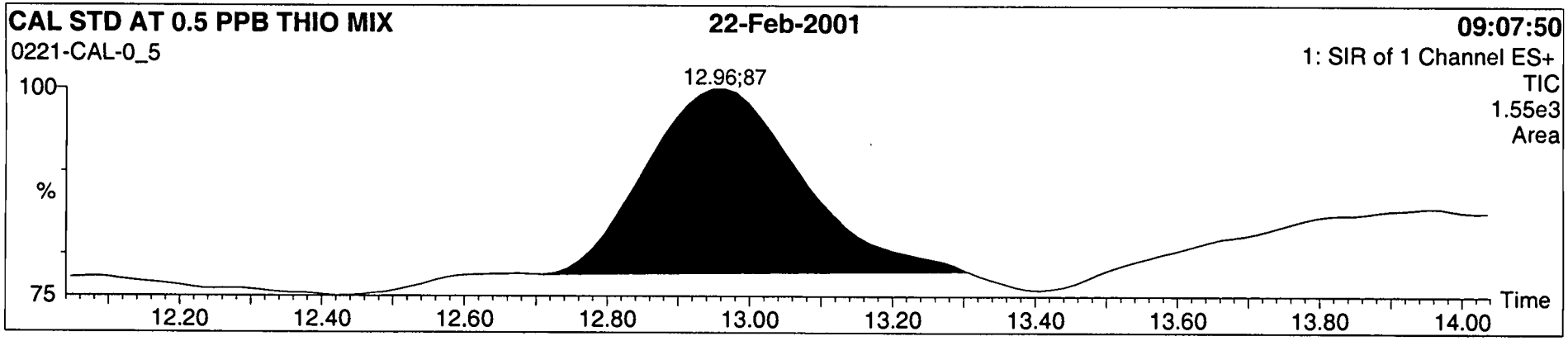
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

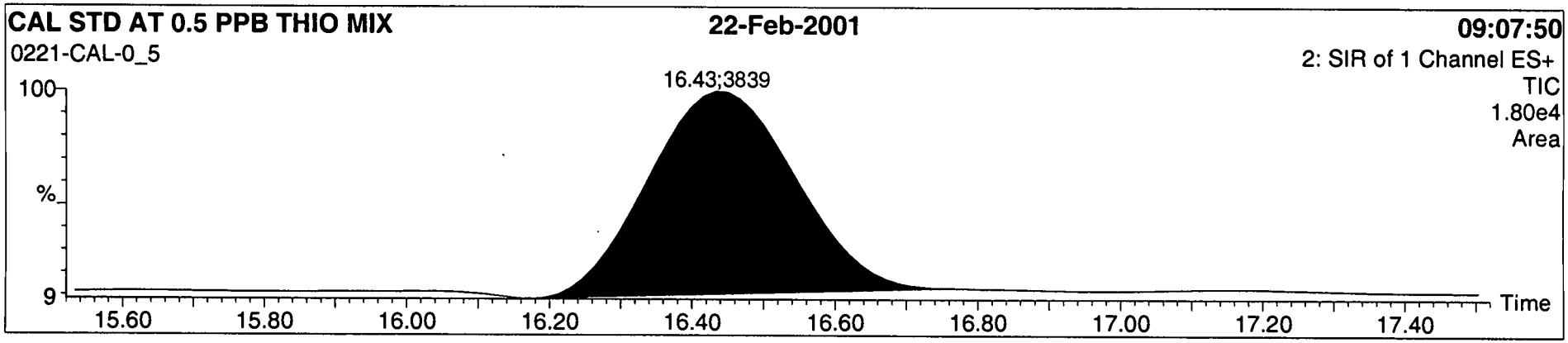
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CAL-0_5
Text: BUFFERED W/MCAA 0.5 PPB

1: Thiuram



2: Thiram



000659

Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CAL-0_5
Text: BUFFERED W/MCAA 0.5 PPB

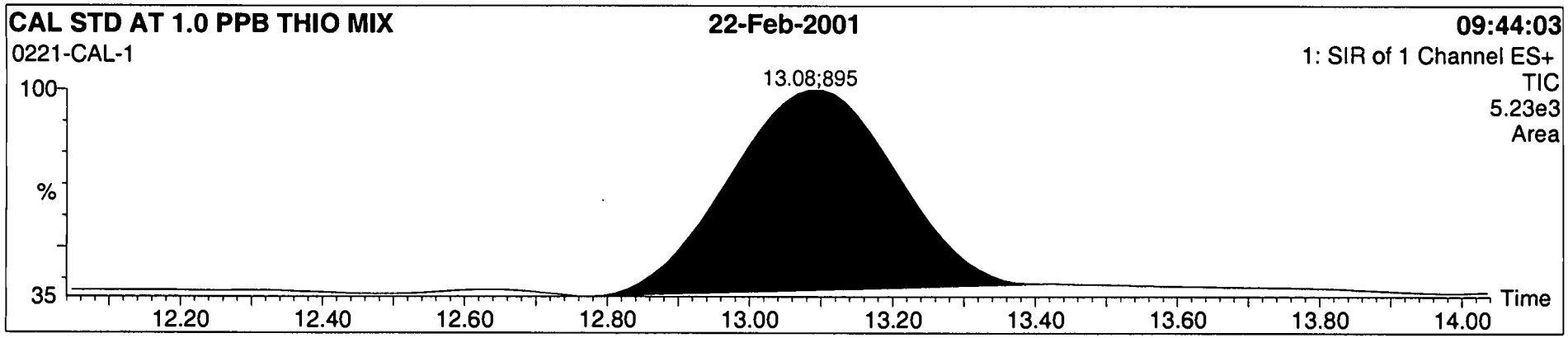
#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	761	12.97	87	87	bb	0.336
2	Thiram	83	16.43	3839	3839	bb	0.377

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

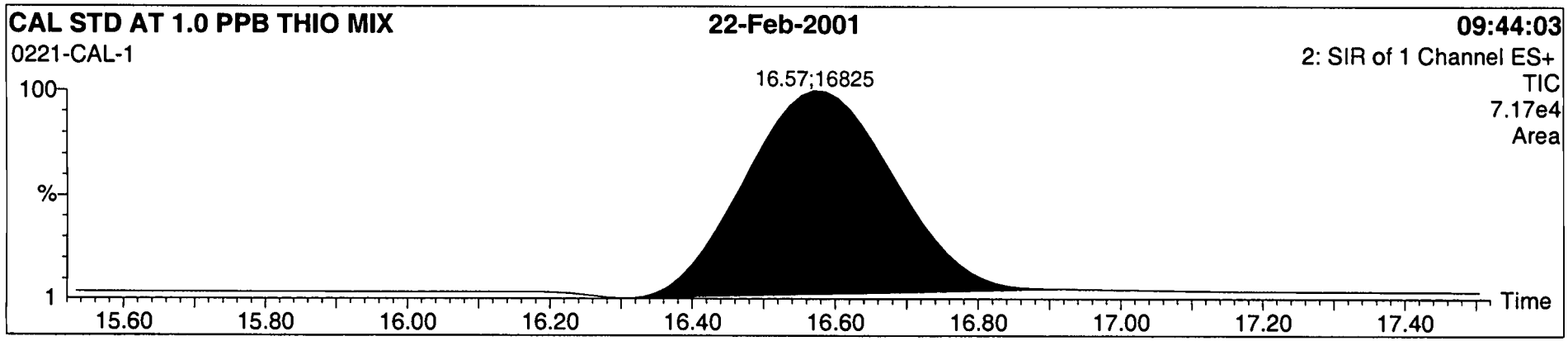
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CAL-1
Text: BUFFERED W/MCAA 1.0 PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CAL-1
Text: BUFFERED W/MCAA 1.0 PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	768	13.08	895	895	bb	0.961
2	Thiram	91	16.57	16825	16825	bb	0.900

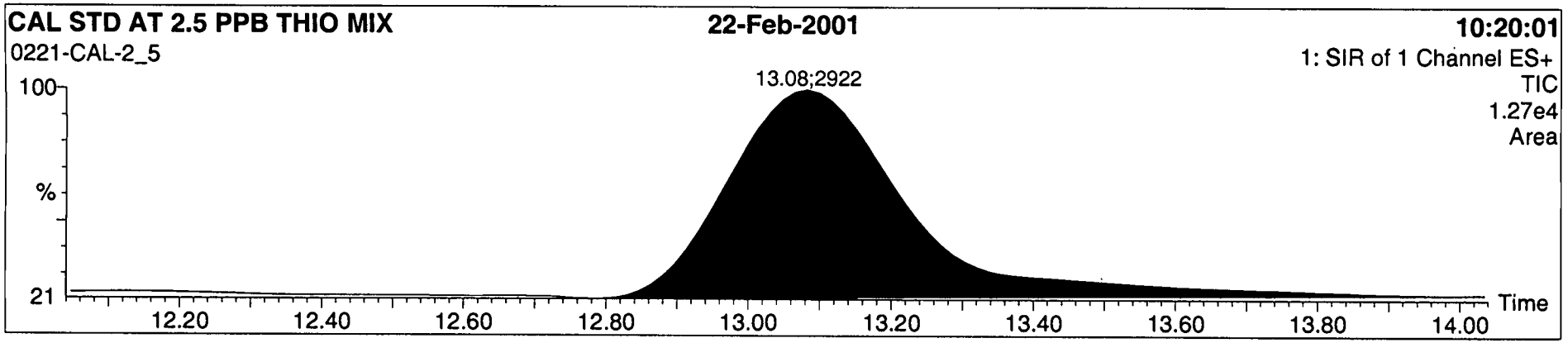
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

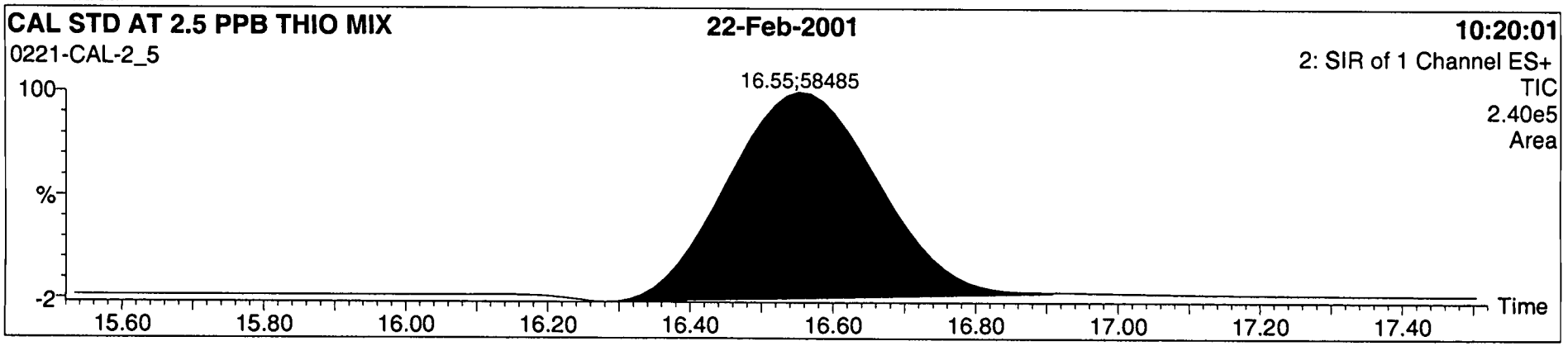
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CAL-2_5
Text: BUFFERED W/MCAA 2.5 PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CAL-2_5
Text: BUFFERED W/MCAA 2.5 PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	768	13.08	2922	2922	bb	2.521
2	Thiram	90	16.55	58485	58485	MM	2.622

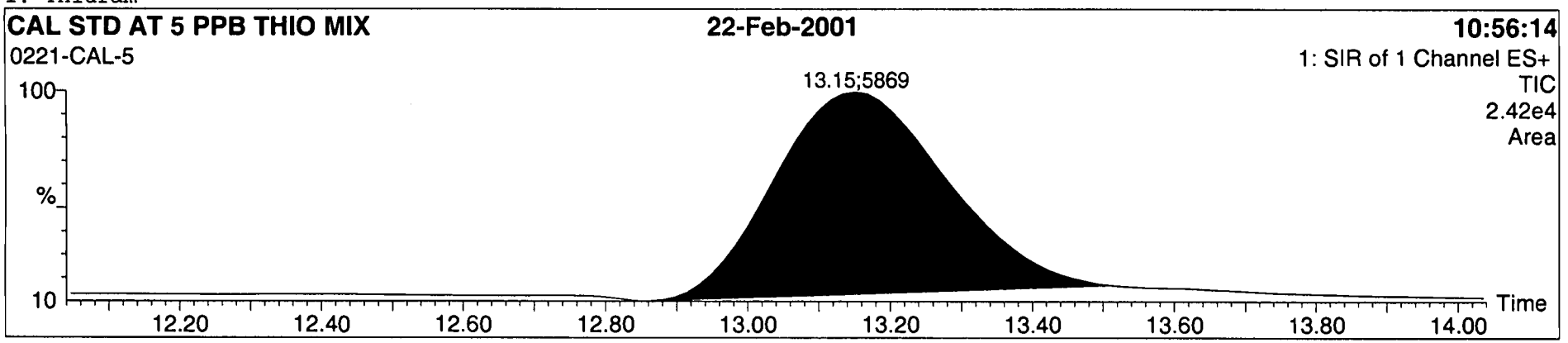
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

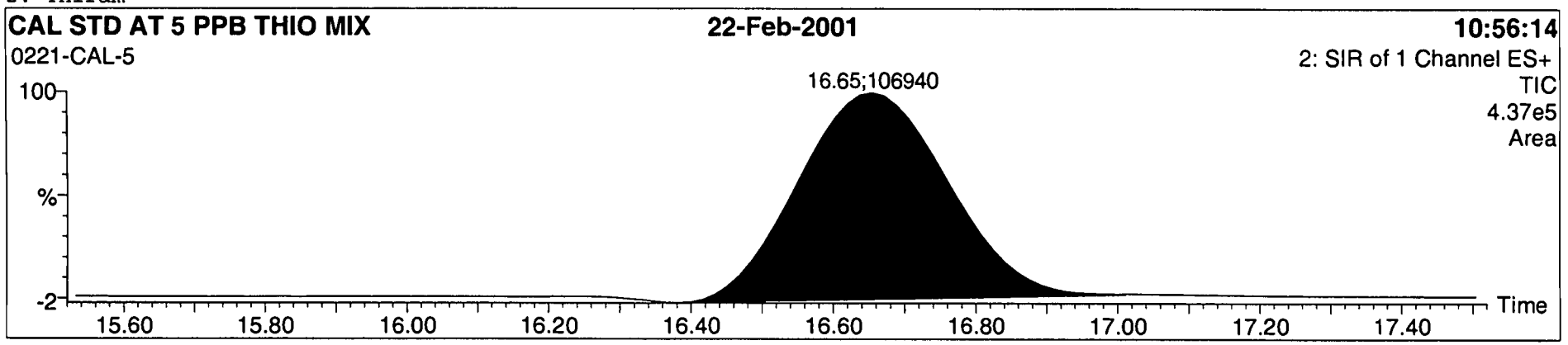
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CAL-5
Text: BUFFERED W/MCAA 5.0 PPB 60:40

1: Thiuram



2: Thiram



00635

Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CAL-5
Text: BUFFERED W/MCAA 5.0 PPB 60:40

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	772	13.15	5869	5869	bb	4.767
2	Thiram	96	16.66	106940	106940	MM	4.715

000636

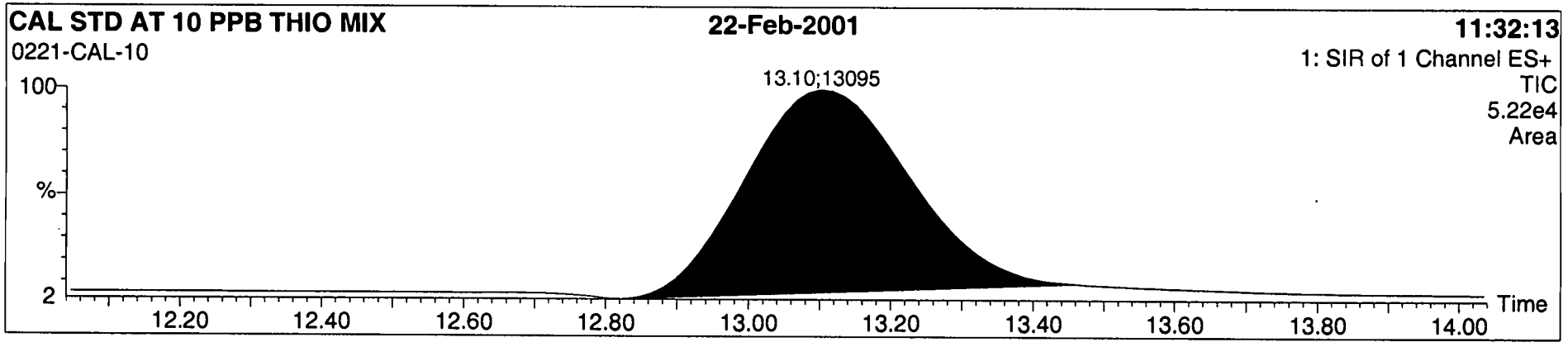
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

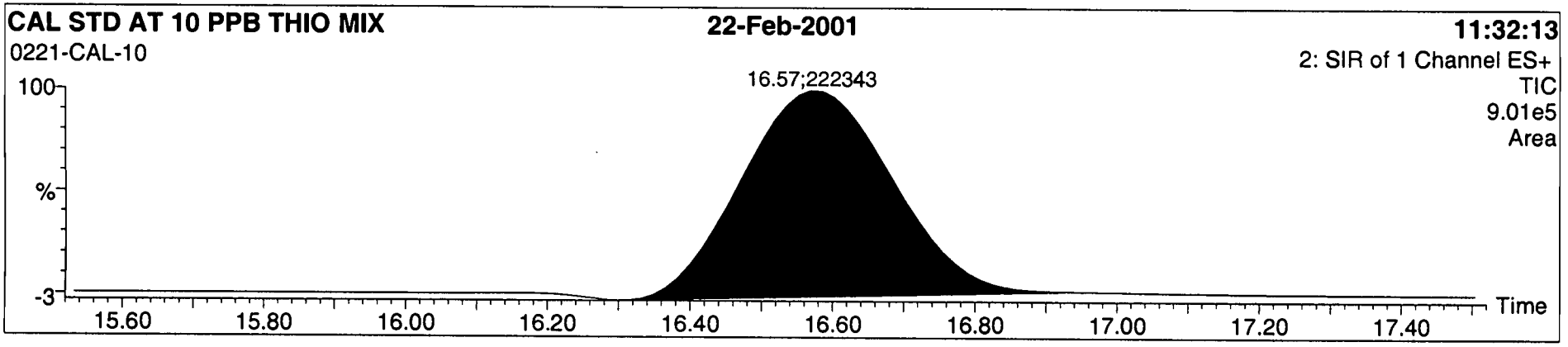
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CAL-10
Text: BUFFERED W/MCAA 10 PPB 60:40

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CAL-10
Text: BUFFERED W/MCAA 10 PPB 60:40

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	769	13.10	13095	13095	bb	10.162
2	Thiram	91	16.57	222343	222343	MM	10.195

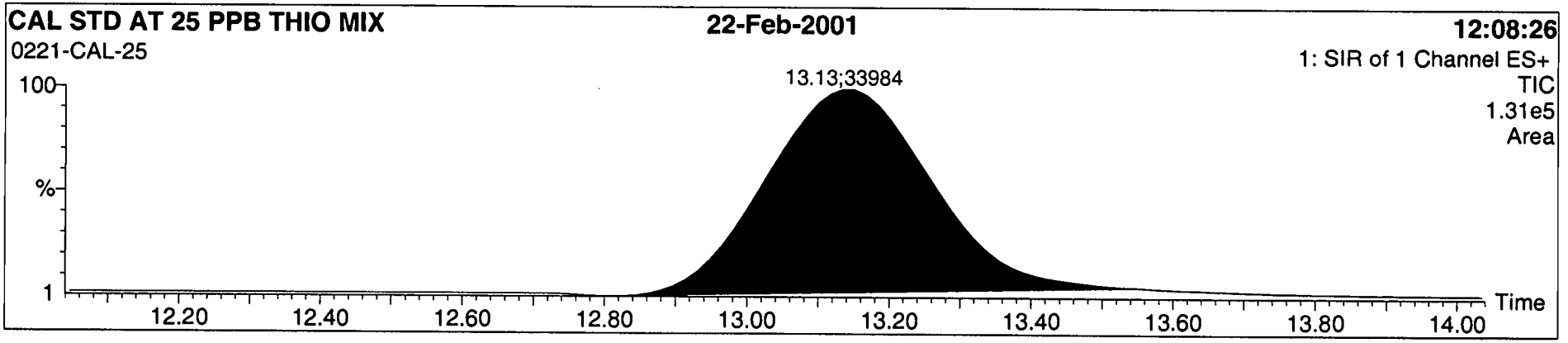
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

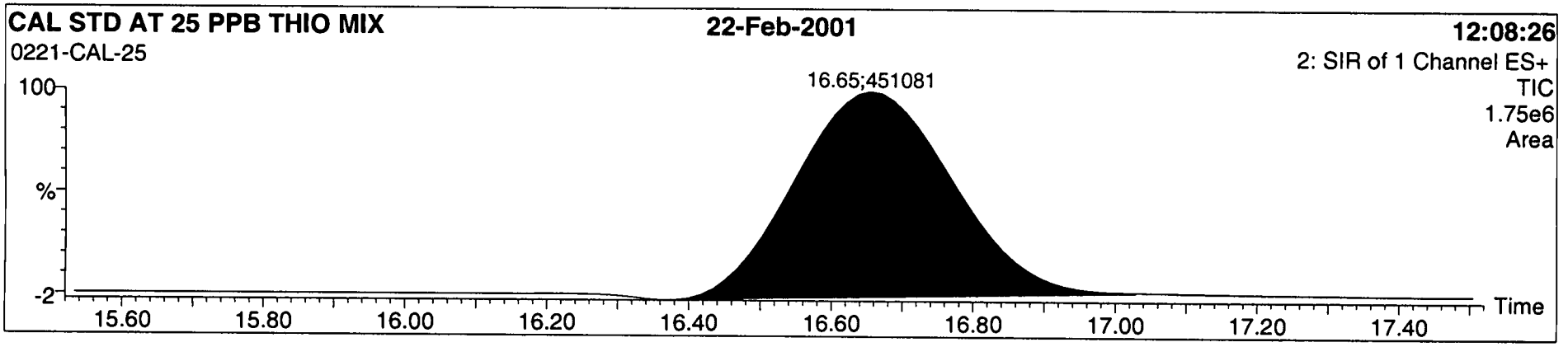
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CAL-25
Text: BUFFERED W/MCAA 25 PPB 60:40

1: Thiuram



2: Thiram



Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CAL-25
Text: BUFFERED W/MCAA 25 PPB 60:40

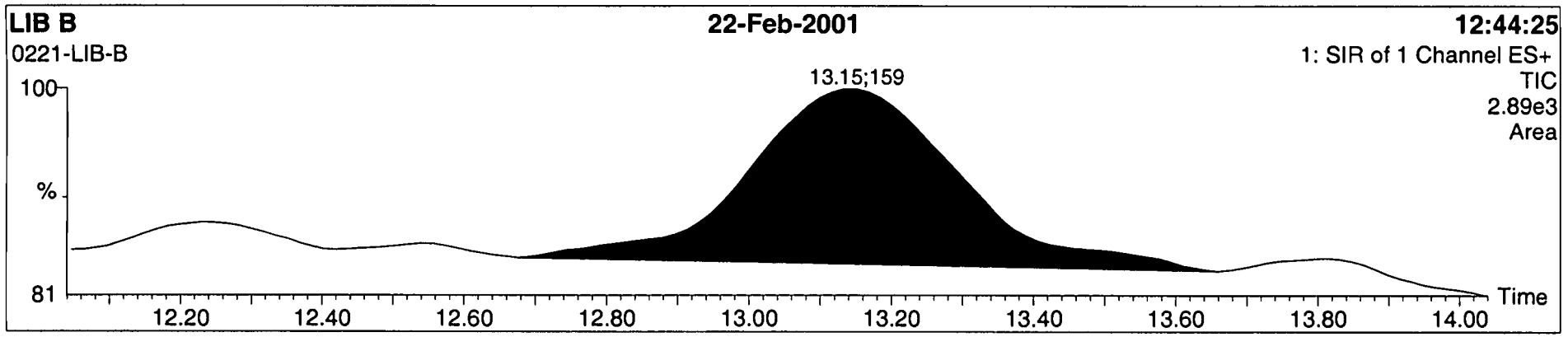
#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	771	13.14	33984	33984	bb	24.984
2	Thiram	96	16.66	451081	451081	MM	24.967

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

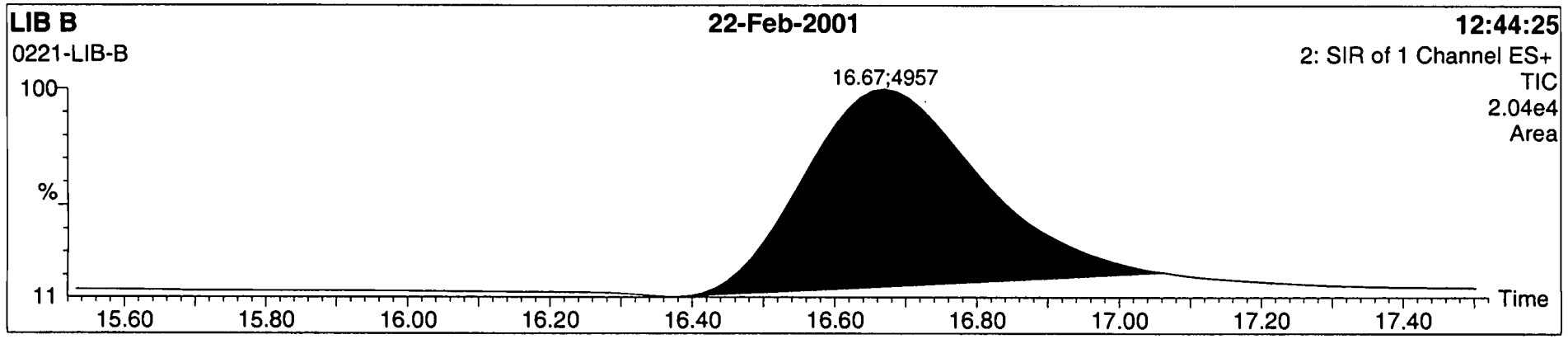
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-LIB-B
Text: 07-18-00 LIB B

1: Thiuram



2: Thiram



000671

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-LIB-B
Text: 07-18-00 LIB B

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	772	13.15	159	159	bb	0.392
2	Thiram	97	16.67	4957	4957	bb	0.421

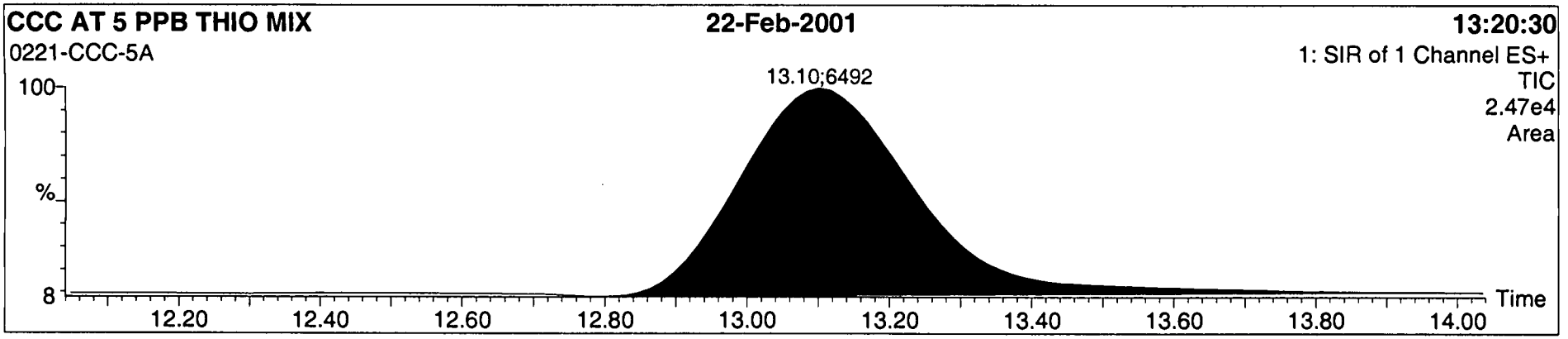
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

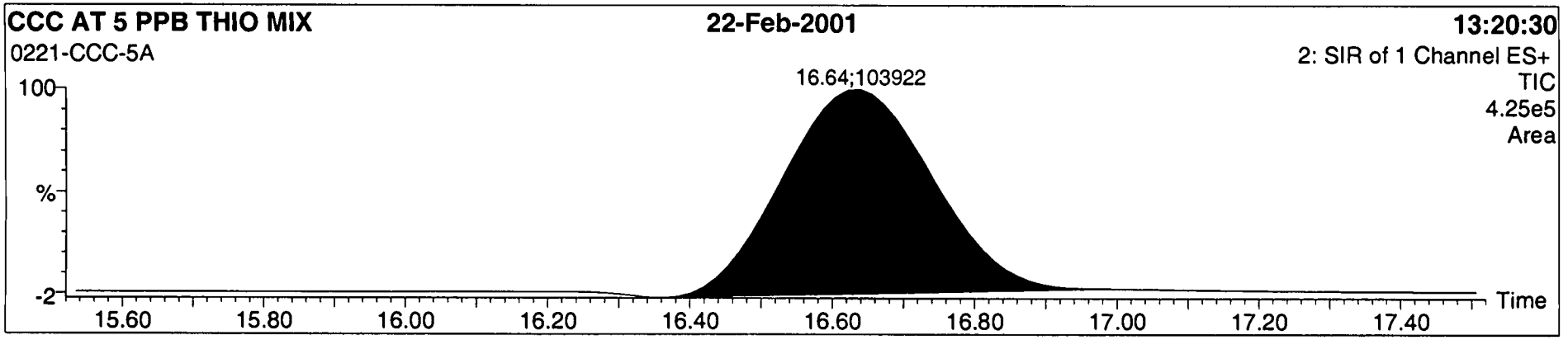
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CCC-5A
Text: BUFFERED W/MCAA & DILUTED 1:1 0.5 PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CCC-5A
Text: BUFFERED W/MCAA & DILUTED 1:1 0.5 PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	769	13.10	6492	6492	bb	5.238
2	Thiram	95	16.64	103922	103922	MM	4.582

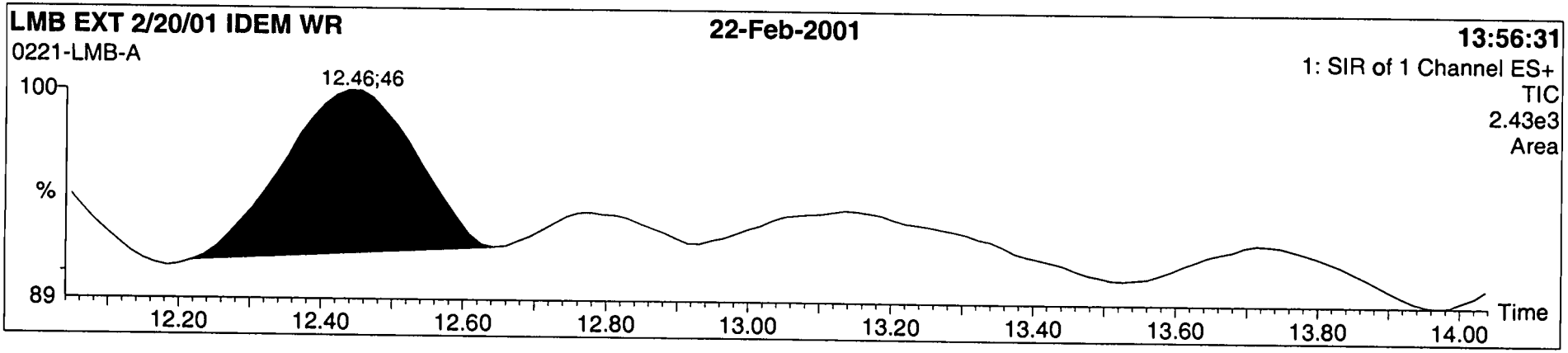
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

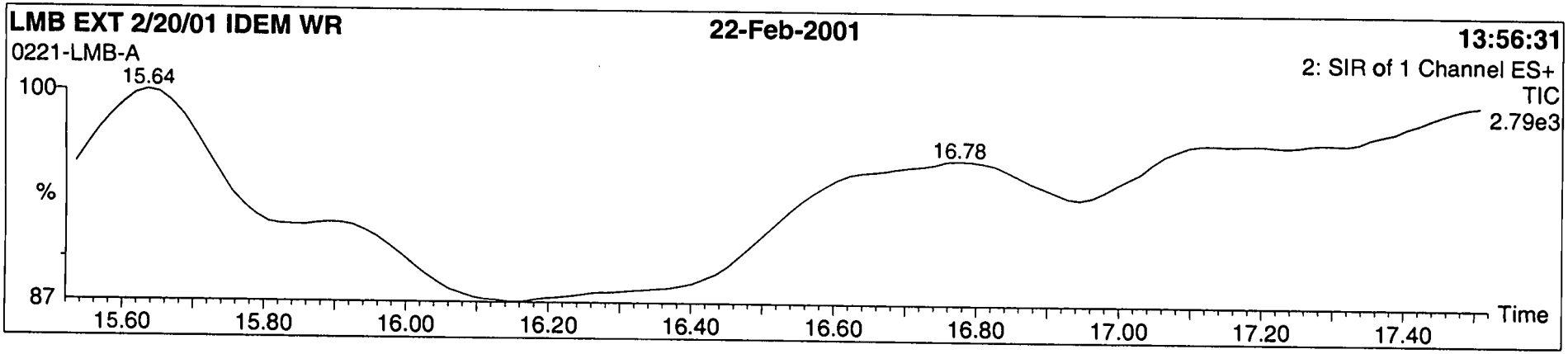
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-LMB-A
Text: BUFFERED W/MCAA & DILUTED 1:1 1.0 PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-LMB-A
Text: BUFFERED W/MCAA & DILUTED 1:1 1.0 PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	731	12.46	46	46	bb	0.304
2	Thiram						

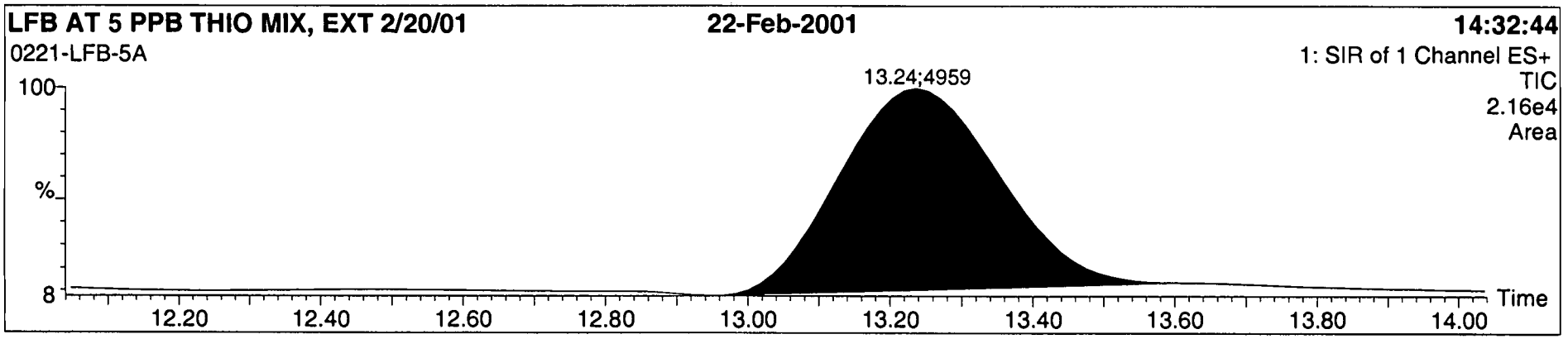
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

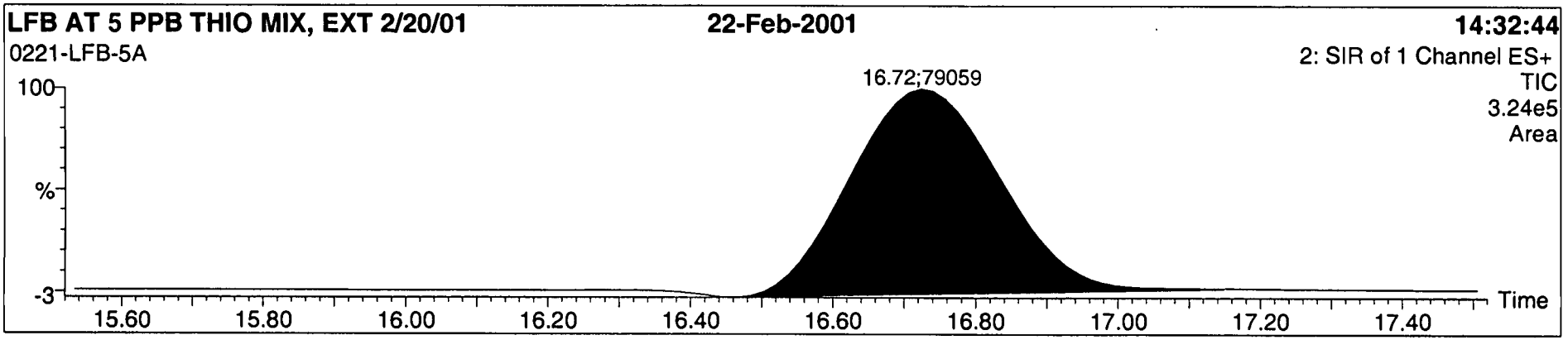
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-LFB-5A
Text: BUFFERED W/MCAA_DILUTED 1:1 2.5 PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-LFB-5A
Text: BUFFERED W/MCAA_DILUTED 1:1 2.5 PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	777	13.24	4959	4959	bb	4.076
2	Thiram	100	16.72	79059	79059	MM	3.498

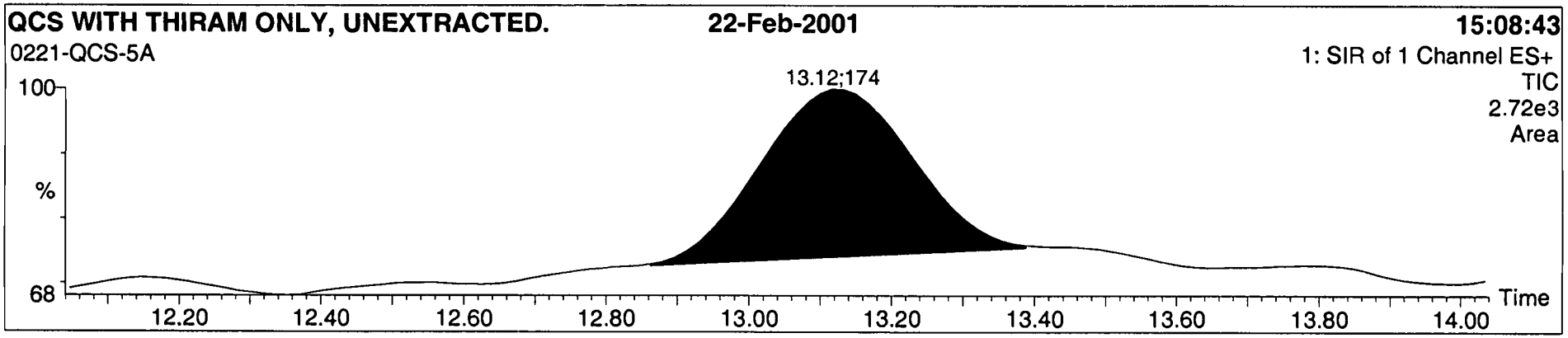
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

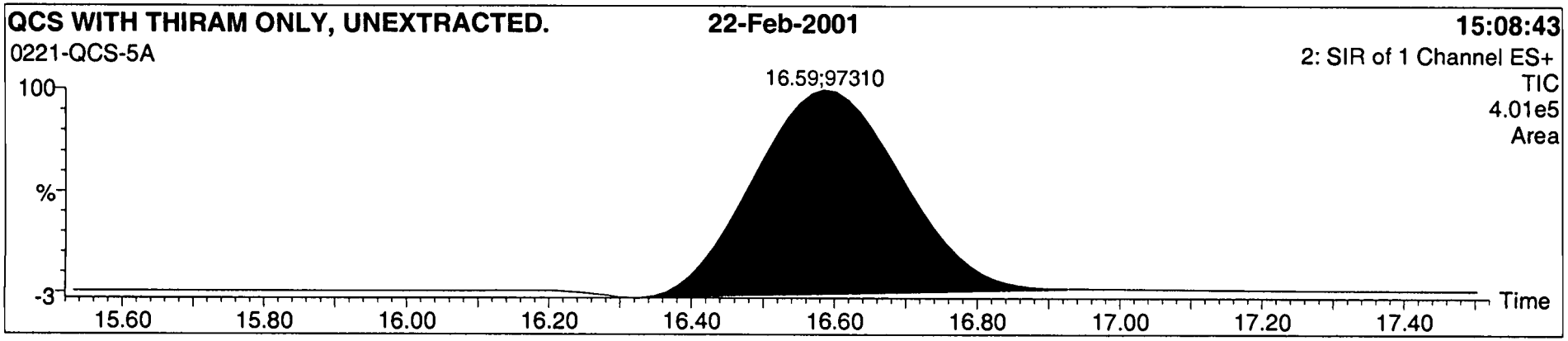
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-QCS-5A
Text: BUFFERED W/MCAA_DILUTED 1:1 5.0 PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-QCS-5A
Text: BUFFERED W/MCAA_DILUTED 1:1 5.0 PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	770	13.12	174	174	MM	0.403
2	Thiram	92	16.59	97310	97310	MM	4.291

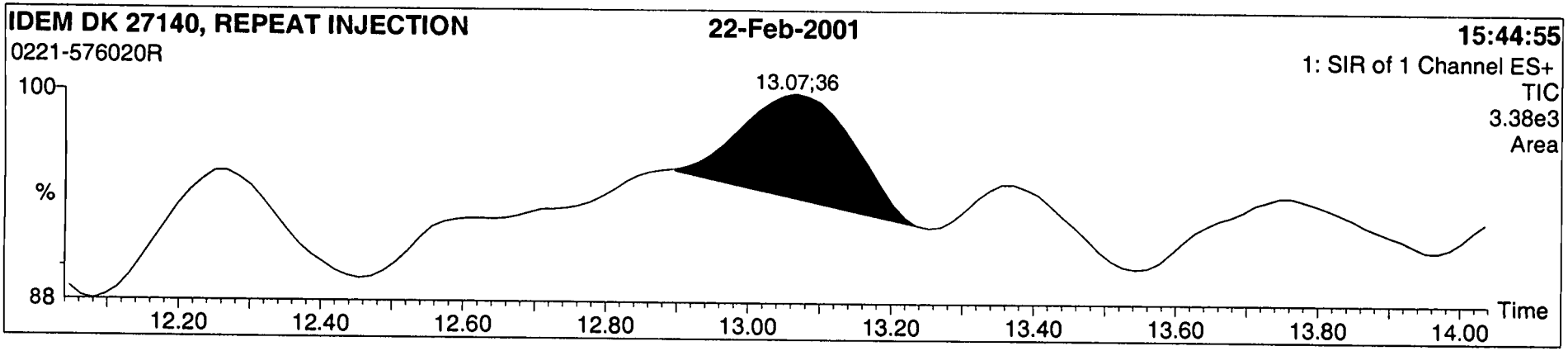
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

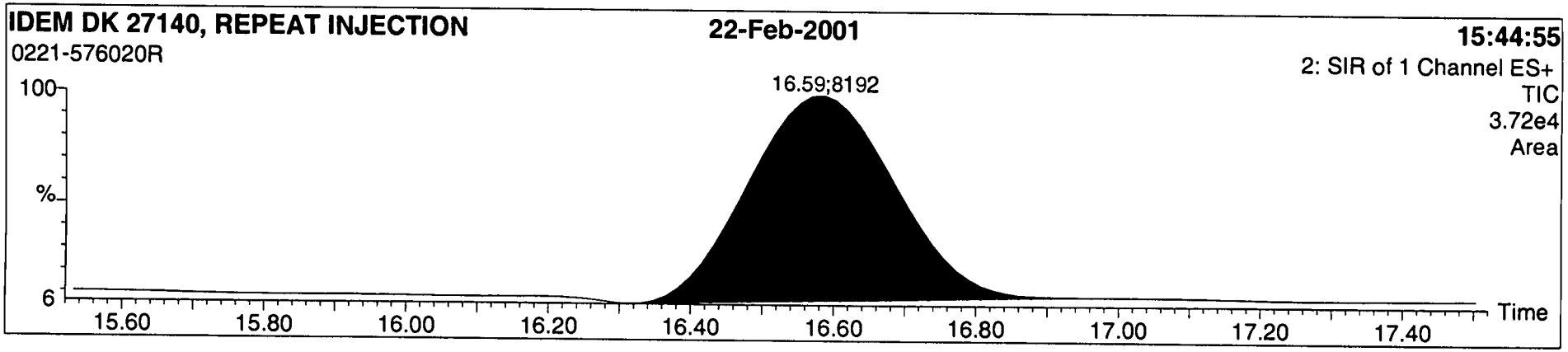
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-576020R
Text: BUFFERED W/MCAA_DILUTED 1:1 5.0 PPB

1: Thiuram



2: Thiram



000691

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-576020R
Text: BUFFERED W/MCAA_DILUTED 1:1 5.0 PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	767	13.07	36	36	MM	0.296
2	Thiram	92	16.59	8192	8192	bb	0.551

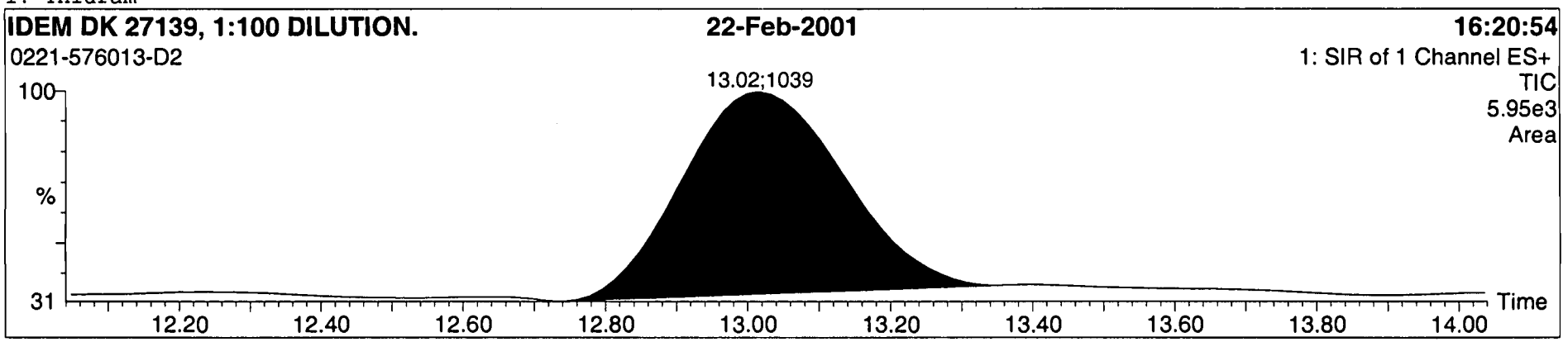
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

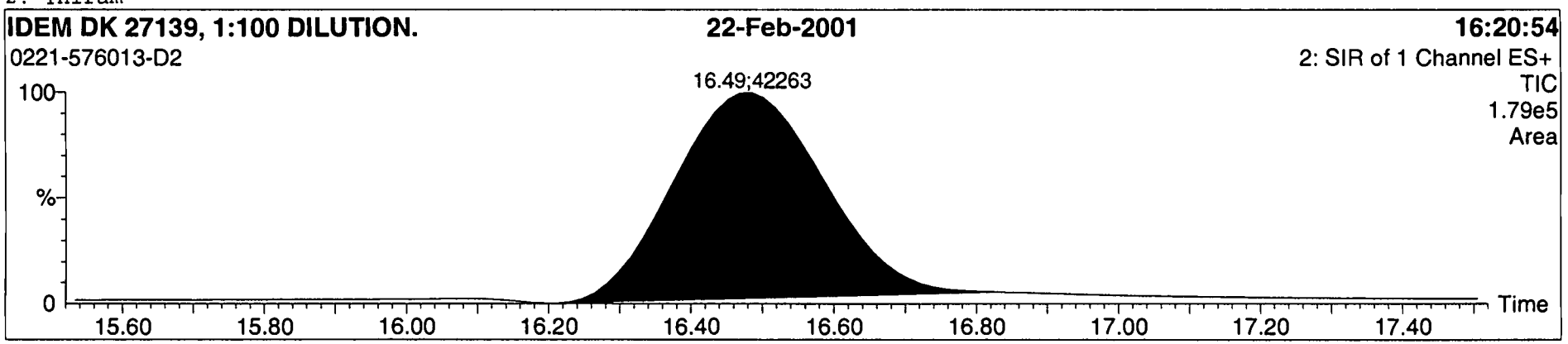
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-576013-D2
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-576013-D2
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	764	13.02	1039	1039	bb	1.072
2	Thiram	86	16.49	42263	42263	bb	1.943

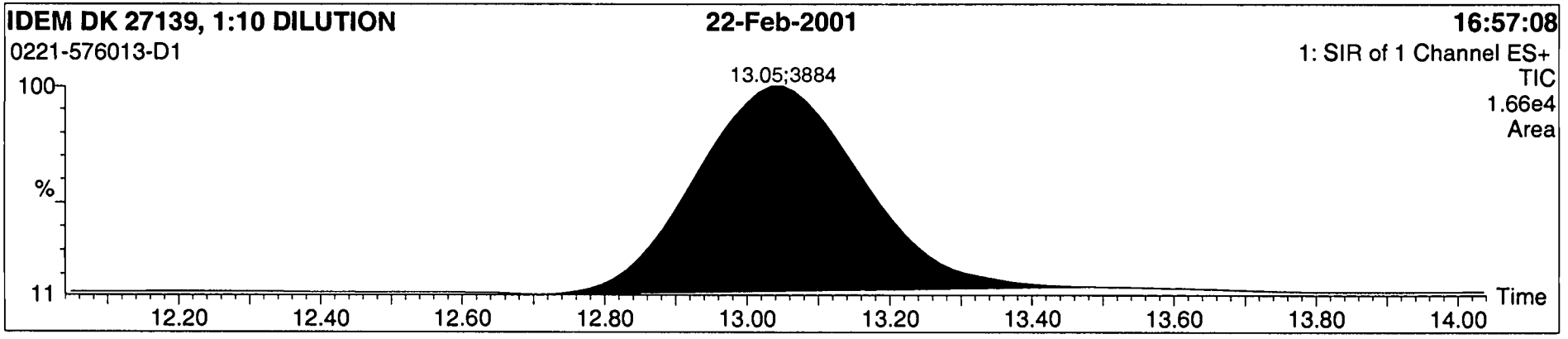
Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

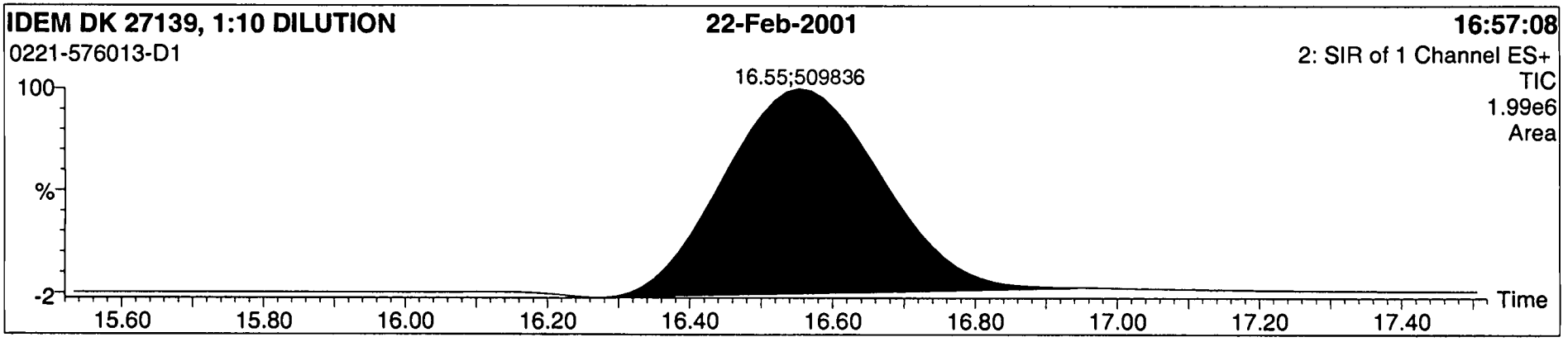
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-576013-D1
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-576013-D1
Text: BUFFERED W/MCAA_DILUTED 1:1 10PPB

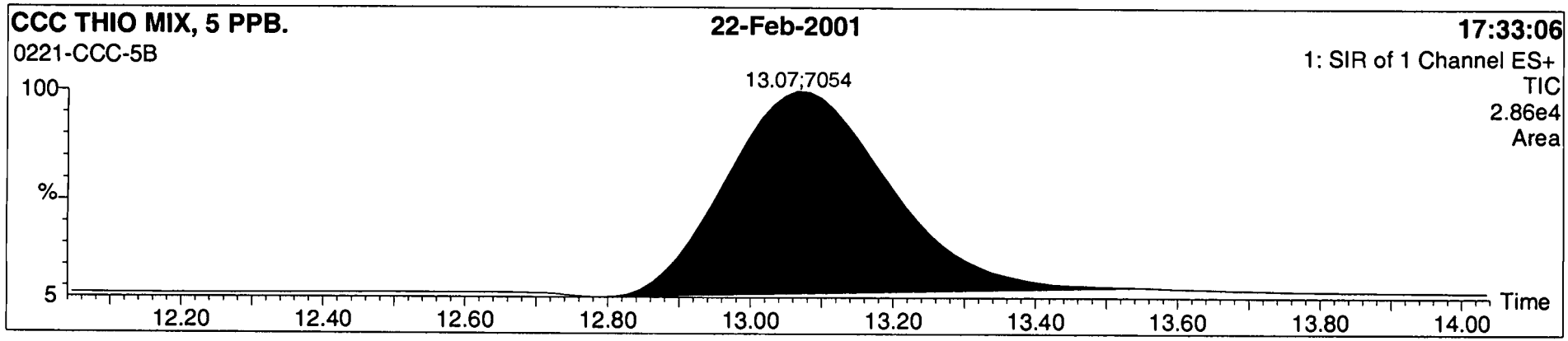
#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	766	13.05	3884	3884	bb	3.257
2	Thiram	90	16.55	509836	509836	MM	30.985

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

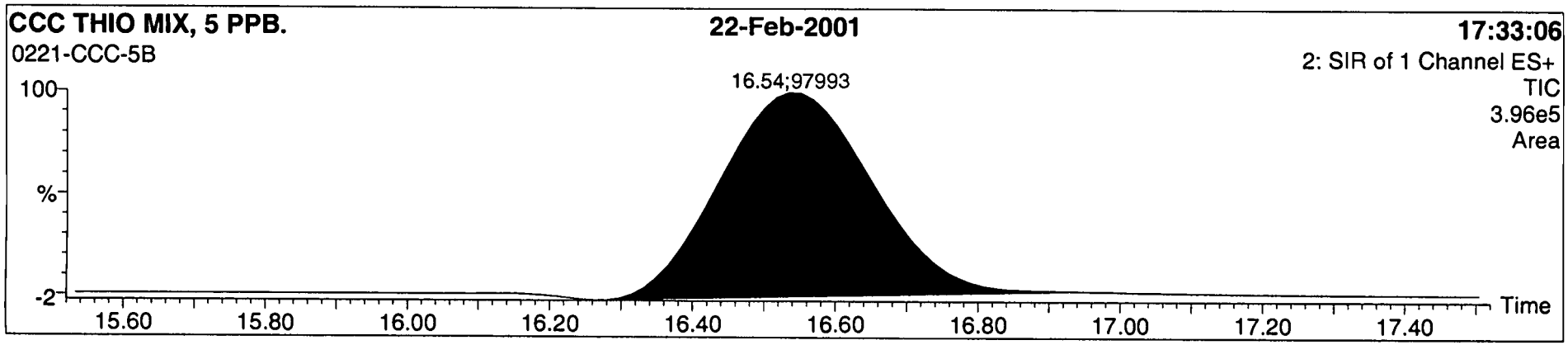
Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CCC-5B
Text: 512857 EXT SPK AT 5 PPB THIOMIX

1: Thiuram



2: Thiram



Quantify Sample Report
Thiram and Thiuram by LC/MS

Sample List: C:\BI\022001a\IDEM-White River.PRO\SampleDB\022101a
Last modified: Thu Feb 22 08:30:13 2001
Method: C:\BI\022001a\IDEM-White River.PRO\MethDB\Thio022001a
Last modified: Fri Feb 23 08:47:38 2001
Job Code:

Printed: Fri Feb 23 08:57:56 2001

Name: 0221-CCC-5B
Text: 512857 EXT SPK AT 5 PPB THIOMIX

#	Name	Scan	RT	Area	Response	Flags	ppb
1	Thiuram	767	13.07	7054	7054	bb	5.662
2	Thiram	89	16.54	97993	97993	MM	4.321