FIRST QUARTER 1992 PROGRESS REPORT
L.E. CARPENTER SITE, WHARTON, NEW JERSEY

Prepared on behalf of L.E. Carpenter and Company
for the New Jersey Department of Environmental
Protection and Energy

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L.E. CARPENTER QUARTERLY REPORT

1.0 Groundwater Activities

1.1 Groundwater Level Measurement

Water level and product thickness measurements were made at all of the monitoring wells at the L.E. Carpenter site on 27 February, 7 April and 27 April, 1992. Water level measurements were also made at eight (8) staff gauges and at the RP-I measurement point. Surface water elevations were determined by measuring the vertical distance between the top of the staff gauge (or paint mark) and the water surface.

Water level and product thickness data could not be acquired for MW-12S during all three measurement rounds and for MW-11S on the 7 April, 1992 measurement round because the product thickness at these wells was found to be greater than the saturated screen thickness.

1.2 Groundwater Sampling

Groundwater monitoring wells MW-2 through MW-5 were sampled for volatile organic compounds plus xylene on 7 April, 1992. MW-1 could not be sampled do to internal casing damage.

1.3 Monitor Well Installation

One shallow monitoring well (MW-25) was installed in the Wharton Enterprizes property during February of 1992. The location of this new well is presented on the shallow aquifier zone equipotential maps in Appendix II. The geologic log for MW-25 is presented in Appendix IV.

1.4 Product Recovery

The EIPRS was down for maintenance between 26 February and 3 April,1992. A total of 478 gallons was recovered by the system during the remainder of the quarter.

2.0 Results

2.1 Groundwater Elevation Data

Groundwater level elevation data for all three measurement rounds are presented in Tables 1, 2 and 3 in Appendix I. For these data sets, water table depression caused by the floating product layer was corrected using the following equation:

$$DTW_c = DTW_o - \Delta h_{pr} (SG_{pr})$$ [1]

where:

DTW_c = depth to water corrected

DTW_o = depth to water observed

Δh_{pr} = thickness of product

SG_{pr} = specific gravity of product

A value for SG_{pr} of 0.86 was calculated by taking the weighed average specific gravity of the three main components of the product, bis (2-ethylhexyl) phthalate, ethylbenzene and xylene.

As described in Section 1.1, difficulty was encountered in obtaining accurate product thickness values at MW-11S during the 7 April measurement round (see Table 2, Appendix I), and at MW-12S during all three measurement rounds (see Tables 1, 2, and 3, Appendix I). The floating product at MW-12S may have actually coated the product/water interface probe used to make these measurements, resulting in product readings over the entire length of the well. The notation "All Product" was used to denote these readings in Tables 1, 2, and 3 (Appendix I). MW-11S is located near the primary organic compound source area for the site. Significant thicknesses of product have been observed at this well in the past. Since the EIPRS was not operational prior to the 7 April measurement round, the "All Product" observation at MW-11S for that measurement round is believed to be real. An approximate product thickness value was calculated by subtracting the bottom-of-screen elevation from the elevation of the top of the product in these wells so that they could be incorporated into the product thickness data set. The resulting product thickness estimates were used in the generation of the product thickness isopach maps (see Figures 2, 4 and 6, Appendix II).

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1 From Tests, S.M. and Weigardner, D.L., 1991. Restoration of Petroleum Contaminated Aquifers, p. 269 Lewis Publishers, Chelsey, Michigan

2.2 Volatile Organic Compound Analytical Results

Volatile organic compound plus xylene (VOC + xylene) analytical results for groundwater samples collected from MW-2 through MW-5 are presented in Appendix III. These data are summarized in Table 2-1. Toluene was detected at a concentration of 7 ug/L in MW-3. Ethylbenzene was detected at concentrations ranging from 6 ug/L in MW-2 to 200 J ug/L in MW-3. Concentrations of xylene ranged from 5 U ug/L in MW-5 to 15,000 ug/L in MW-3. The high organic compound concentration detected in MW-3 and MW-4 correlate to observations of floating product in these wells at the time of sampling (see Table 2, Appendix I).

WESTON

MANAGERS DESIGNERS/CONSULTANTS

Table 2-1

Summary of Detected Compounds
First Quarter 1992
L.E. Carpenter Site, Wharton, New Jersey

Parameter	Concentration (in ug/L)			
	MW-2	MW-3	MW-4	MW-5
Toluene	5 U	7	5 U	5 U
Ethylbenzene	6	200 J	100	5 U
Xylene	76	15,000	340	5 U

Data Qualifiers

U = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria, but the result is less than the specified detection limit but greater than zero; for example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

3.0 Discussion

Figures 1, 3 and 5 (Appendix II) show shallow groundwater levels which are similar to those presented in the **Forth Quarter 1991 Progress Report for L.E. Carpenter Site, Wharton, New Jersey**. These maps show that during this season, the Rockaway River is a losing stream and, as such, it acts as a recharge boundary along the southern perimeter of the site. Note that in Table 1 the water elevation at RP-2 is 626.15 feet above mean sea level (ft. MSL) and the water table elevation at MW-7 is 625.46 ft. MSL. In the area immediately adjacent to the river, the direction of the groundwater flow is toward the site.

A significant rain event occurred prior to the water level measurement activities on 27 February, 1992. The corresponding equipotential pattern presented in Figure 1 represents infiltration conditions. The presence of the infiltration gallery, as well as the lack of surrounding surface pavement, results in rainwater infiltration in the central portion of the site. This is indicated by the relatively elevated mound in the equipotential surface centered on MW-11S (see Figure 1). This mound is bordered on the west by a narrow trough in the equipotential surface which extends northward from MW-17S (see Figure 1). In the vicinity of former buildings 13 and 14, shallow groundwater flow is westward, towards this trough. Along the central axis of the trough, the direction of groundwater flow is northward, to the vicinity of MW-5, where the direction of shallow groundwater flow bends back toward the Air Products drainage ditch.
The equipotential patterns presented in Figures 3 and 5 are more representative of base flow conditions. Under these conditions, the mound in the equipotential surface at MW-11S is no longer present, and the general direction of groundwater flow across the central portion of the site is eastward, toward the Air Products drainage ditch.

The floating product isopach maps (Figures 2, 4 and 6, Appendix II) indicate that the operation of EIPRS has a dramatic affect on the thickness of floating product at the site. Figure 4, which was generated from data acquired while the EIPRS was down for maintenance, depicts a significant thickness of product centered on MW-11S and extending southward to MW-12S. Figures 2 and 6, which were generated from data acquired while the EIPRS was in operation, show that the floating product layer has been entirely removed by the operation of skimmer pumps in MW-6, MW-10 and MW-11S.

The equipotential maps presented in Figures 7, 8, and 9 (Appendix II) show that the general direction of groundwater flow is eastward in the intermediate aquifer zone. Figure 8 shows a fairly significant depression in the equipotential surface at MW-11I. Figures 10, 11 and 12 (Appendix II) show that the general direction of groundwater flow in the deep aquifer zone is westward, with slight depressions occurring at MW-11D in the 27 February and 7 April, 1992 data sets.

The shallow groundwater flows toward the Air Products drainage ditch in the northeastern area of the site. All three data sets show that the observed water levels in MW-13S, on Air Products side of the ditch, are consistently higher than those measured along the drainage ditch. This confirms that flow in the ditch is sustained by discharge from the shallow aquifer zone. These observations, in conjunction with the water level observations from previous quarterly reports, indicate that the Air Products drainage ditch is in hydraulic communication with the shallow aquifer zone. The ditch acts as a hydrodynamic interceptor prohibiting the flow of low density organic compounds off-site onto the Air Products property. It is WESTON's contention that this interpretation is most consistent with the hydrogeologic information and organic compound distribution patterns for the site.

4.0 Conclusions

These data continue to support several important conclusions for the site. First, discharge of groundwater to the Rockaway River is not possible because recharge occurs along that boundary. Shallow horizontal groundwater flow vectors along the river are oriented toward the site.

Second, the Air Products drainage ditch is a hydrodynamic barrier which receives shallow groundwater discharges. Shallow groundwater flow on either side of the ditch is oriented toward the ditch. Since the floating organics detected at the site are less dense than water, infiltration of the organics into the intermediate and deep aquifer zones is not likely. The intermediate and deep wells did not show elevated concentrations of organics in any of the sampling which has taken place to date. Therefore, the majority of the organic compounds at the site are confined to the shallow aquifer zone. The Air Product drainage ditch is acting as a hydrochemical interceptor, preventing the flow of organics onto the Air Products property. This interpretation is confirmed by the fact that none of the organic compounds found in monitoring wells installed on the L.E. Carpenter property were detected in well MW-13S (located on the Air Products property) during the remedial investigation sampling activities.

Third, all three deep aquifer zone equipotential maps (Figures 10, 11 and 12, Appendix II) show that direction of groundwater flow in this zone is southwesterly. There is no substantial data base to support the contention that dense organic compounds were released to the deep aquifer zone in the past. Even if such a release did occur, off-site flow of these organics onto the Wharton Enterprises or Air Products properties would not be possible because groundwater flow in the deep aquifer zone would carry these compounds back toward the central portion of the L.E. Carpenter property.

APPENDIX I

WATER LEVEL DATA TABLES

TABLE 1. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA, MEASURED ON FEBRUARY 27, 1992, L.E. CARPENTER SITE, WHARTON, NJ.

WELL	MEASURING PT. ELEVATION (FT MSL)	DEPTH TO PRODUCT (FT)	DEPTH TO WATER (FT)	PRODUCT THICKNESS OR SHEEN OBSERVATIONS (FT)	OBSERVED WATER LEVEL ELEVATION (FT MSL)	CORRECTED WATER LEVEL ELEVATION * (FT MSL)
MW-001	638.97	13.91	14.74	0.83	624.23	624.94
MW-002	633.39		9.32	0.00	624.07	624.07
MW-003	632.27		7.75	0.00	624.52	624.52
MW-004	632.31	7.60	7.85	0.25	624.46	624.68
MW-005	632.20		7.50	0.00	624.70	624.70
MW-006	632.00		7.95	0.00	624.05	630.89
MW-007	630.68		5.22	0.00	625.46	625.46
MW-008	628.79		2.95	0.00	625.84	625.84
MW-009	630.18		4.78	0.00	625.40	625.40
MW-010	633.65	8.90	9.45	0.55	624.20	624.20
MW-11S	632.96		8.55	0.00	624.41	631.76
MW-11I	632.82		8.21	0.00	624.61	624.61
MW-11D	632.42		5.25	0.00	627.17	627.17
MW-12S	633.18	7.88	ALL PRODUCT	6.53	ALL PRODUCT	ALL PRODUCT
MW-12I	633.06		8.62	0.00	624.44	624.44
MW-13S	631.23		6.55	0.00	624.68	624.68
MW-13I	630.66		6.20	0.00	624.46	624.46
MN-14S	628.51		4.16	0.00	624.35	624.35
MW-14I	628.23		3.91	0.00	624.32	624.32
MW-14D	628.53		1.90	0.00	626.63	626.63
MW-15S	636.77		11.79	0.00	624.98	624.98
MW-15I	636.66		11.62	0.00	625.04	625.04
MW-16S	634.47		8.93	0.00	625.54	625.54
MW-16I	634.96		9.92	0.00	625.04	625.04
MW-17S	634.74		9.90	0.00	624.84	624.84
MW-17D	634.86		9.80	0.00	625.06	625.06
MW-18S	631.26		6.41	0.00	624.85	624.85
MW-18I	631.04		6.00	0.00	625.04	625.04
MW-18D	630.77		4.92	0.00	625.85	625.85
MW-019	638.88		13.75	0.00	625.13	625.13
MW-020	636.77		11.26	0.00	625.51	625.51
MW-021	628.80		4.65	0.00	624.15	624.15
MW-022	628.74		4.40	0.00	624.34	624.34
MW-023	630.64		2.85	0.00	627.79	627.79
MW-024	629.03		3.45	0.00	625.58	625.58
MW-025	627.33		3.51	0.00	623.82	623.83
RW-001	637.38		13.25	0.00	624.13	624.13
RW-002	631.68		7.30	0.00	624.38	624.38
RW-003	631.99		7.06	0.00	624.93	624.93
GEI-1I	630.78		5.48	0.00	625.30	625.30
GEI-2S	637.27		11.94	0.00	625.33	625.33
GEI-2I	637.27		12.12	0.00	625.15	625.15
GEI-3I	639.85		14.38	0.00	625.47	625.47

* Estimated water level elevation calculated using a product specific gravity of 0.86.

** Measuring point elevation corrected to top of plastic cover casing.

TABLE 1 CONTINUED. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA MEASURED ON FEBRUARY 27, 1992, L.E. CARPENTER SITE, WHARTON, NJ.

MEASURING POINT	ELEVATION OF MEASURING POINT	DEPTH TO WATER	WATER LEVEL ELEVATION
DC-P0	625.73	2.50	623.23
DC-P1	625.26	2.00	623.26
DC-P2	626.79	2.20	624.59
DC-P3	625.22	2.00	623.22
DC-P4	625.10	2.10	623.00
DC-P5	625.16	3.45	621.71
RP-01	629.65	2.85	626.80
RP-02	627.75	1.60	626.15
RP-03	627.11	2.50	624.61

TABLE 2. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA, MEASURED ON APRIL 7, 1992, L.E. CARPENTER SITE, WHARTON, NJ.

WELL	MEASURING PT. ELEVATION (FT MSL)	DEPTH TO PRODUCT (FT)	DEPTH TO WATER (FT)	PRODUCT THICKNESS OR SHEEN OBSERVATIONS (FT)	OBSERVED WATER LEVEL ELEVATION (FT MSL)	CORRECTED WATER LEVEL ELEVATION * (FT MSL)
MW-001	638.97	12.64	14.40	1.76	624.57	626.08
MW-002	633.39		8.92	0.00	624.47	624.47
MW-003	632.27	6.90	7.20	0.30	625.07	625.07
MW-004	632.31	6.62	6.64	0.02	625.67	625.69
MW-005	632.20		6.18	0.00	626.02	626.02
MW-006	632.00		6.44	0.00	625.56	631.10
MW-007	630.68		4.84	0.00	625.84	625.84
MW-008	628.79		2.82	0.00	625.97	625.97
MW-009	630.18		5.62	0.00	624.56	624.56
MW-010	633.65	7.84	8.96	1.12	624.69	624.69
MW-11S	632.96	4.12	ALL PRODUCT	10.29	ALL PRODUCT	ALL PRODUCT
MW-11I	632.82		3.98	0.00	628.84	628.84
MW-11D	632.42		7.08	0.00	625.34	625.34
MW-12S	633.18	7.34	ALL PRODUCT	7.07	ALL PRODUCT	ALL PRODUCT
MW-12I	633.06		7.28	0.00	625.78	625.78
MW-13S	631.23		5.62	0.00	625.61	625.61
MW-13I	630.66		5.18	0.00	625.48	625.48
MW-14S	628.51		3.25	SHEEN	625.26	625.26
MW-14I	628.23		3.88	0.00	624.35	624.35
MW-14D	628.53		0.20	0.00	628.33	628.33
MW-15S	636.77		10.70	0.00	626.07	626.07
MW-15I	636.66		10.60	0.00	626.06	626.06
MW-16S	634.47		7.85	0.00	626.62	626.62
MW-16I	634.96		8.25	0.00	626.71	626.71
MW-17S	634.74		8.44	0.00	626.30	626.30
MW-17D	634.86		8.50	0.00	626.36	626.36
MW-18S	631.26		5.65	0.00	625.61	625.61
MW-18I	631.04		5.14	0.00	625.90	625.90
MW-18D	630.77		2.95	0.00	627.82	627.82
MW-019	638.88		11.90	0.00	626.98	626.98
MW-020	636.77		10.18	0.00	626.59	626.59
MW-021	628.80		3.72	0.00	625.08	625.08
MW-022	628.74		3.38	SHEEN	625.36	625.36
MW-023	630.64		3.48	0.00	627.16	627.16
MW-024	629.03		2.70	0.00	626.33	626.33
MW-025	627.33		2.12	0.00	625.21	625.21
RW-001	637.38		11.30	SHEEN	626.08	626.08
RW-002	631.68		6.30	SHEEN	625.38	625.38
RW-003	631.99		6.35	SHEEN	625.64	625.64
GEI-1I	630.78		4.78	0.00	626.00	626.00
GEI-2S	637.27		10.78	0.00	626.49	626.49
GEI-2I	637.27		10.75	0.00	626.52	626.52
GEI-3I	639.85		12.95	0.00	626.90	626.90

* Estimated water level elevation calculated using a product specific gravity of 0.86.

** Measuring point elevation corrected to top of plastic cover casing.

TABLE 2 CONTINUED. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA, MEASURED ON APRIL 7, 1992, L.E. CARPENTER SITE, WHARTON, NJ.

MEASURING POINT	ELEVATION OF MEASURING POINT	DEPTH TO WATER	WATER LEVEL ELEVATION
DC-P0	625.73	2.50	623.23
DC-P1	625.26	1.83	623.43
DC-P2	626.79	3.33	623.46
DC-P3	625.22	2.08	623.14
DC-P4	625.10	2.00	623.10
DC-P5	625.16	2.17	622.99
RP-01	629.65	2.90	626.75
RP-02	627.75	1.72	626.03
RP-03	627.11	2.46	624.65

TABLE 3. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA, MEASURED ON 21 APRIL, 1992, L.E. CARPENTER SITE, WHARTON, NJ.

WELL	MEASURING PT. ELEVATION (FT MSL)	DEPTH TO PRODUCT (FT)	DEPTH TO WATER (FT)	PRODUCT THICKNESS OR SHEEN OBSERVATIONS (FT)	OBSERVED WATER LEVEL ELEVATION (FT MSL)	CORRECTED WATER LEVEL ELEVATION * (FT MSL)
MW-001	638.97	13.15	14.65	1.50	624.32	625.61
MW-002	633.39		9.25	0.00	624.14	624.14
MW-003	632.27	7.20	7.70	0.50	624.57	625.00
MW-004	632.31	7.15	7.20	0.05	625.11	625.15
MW-005	632.20		6.55	0.00	625.65	625.65
MW-006	632.00		6.64	0.00	625.36	625.36
MW-007	630.68		5.40	0.00	625.28	625.28
MW-008	628.79		3.10	0.00	625.69	625.69
MW-009	630.18		4.35	0.00	625.83	625.83
MW-10	633.65		8.46	0.00	625.19	625.19
MW-11S	632.96		8.02	0.00	624.94	624.94
MW-11I	632.82		7.65	0.00	625.17	625.17
MW-11D	632.42		4.75	0.00	627.67	627.67
MW-12S	633.18	7.65	ALL PRODUCT	6.76	ALL PRODUCT	ALL PRODUCT
MW-12I	633.06		7.80	0.00	625.26	625.26
MW-13S	631.23		5.93	0.00	625.30	625.30
MW-13I	630.66		5.55	0.00	625.11	625.11
MW-14S	628.51		3.60	0.00	624.91	624.91
MW-14I	628.23		3.25	0.00	624.98	624.98
MW-14D	628.53		0.63	0.00	627.90	627.90
MW-15S	636.77		11.10	0.00	625.67	625.67
MW-15I	636.66		10.95	0.00	625.71	625.71
MW-16S	634.47		7.65	0.00	626.82	626.82
MW-16I	634.96		8.75	0.00	626.21	626.21
MW-17S	634.74		9.00	0.00	625.74	625.74
MW-17D	634.86		9.00	0.00	625.86	625.86
MW-18S	631.26		5.85	0.00	625.41	625.41
MW-18I	631.04		5.45	0.00	625.59	625.59
MW-18D	630.77		3.45	0.00	627.32	627.32
MW-19	638.88		12.30	0.00	626.58	626.58
MW-20	636.77		10.50	0.00	626.27	626.27
MW-21	628.80		4.04	0.00	624.76	624.76
MW-22	628.74		3.78	0.00	624.96	624.96
MW-23	630.64		3.35	0.00	627.29	627.29
MW-24	629.03		2.9	0.00	626.13	626.13
MW-25	627.33		2.85	0.00	624.48	624.48
RW-1	637.38		11.75	SHEEN	625.63	625.63
RW-2	631.68		6.65	SHEEN	625.03	625.03
RW-3	631.99		6.80	SHEEN	625.19	625.19
GEI-1I	630.78		5.15	0.00	625.63	625.63
GEI-2S	637.27		11.25	0.00	626.02	626.02
GEI-2I	637.27		11.30	0.00	625.97	625.97
GEI-3I	639.85		13.45	0.00	626.40	626.40

* Estimated water level elevation calculated using a product specific gravity of 0.86.

** Measuring point elevation corrected to top of plastic cover casing.

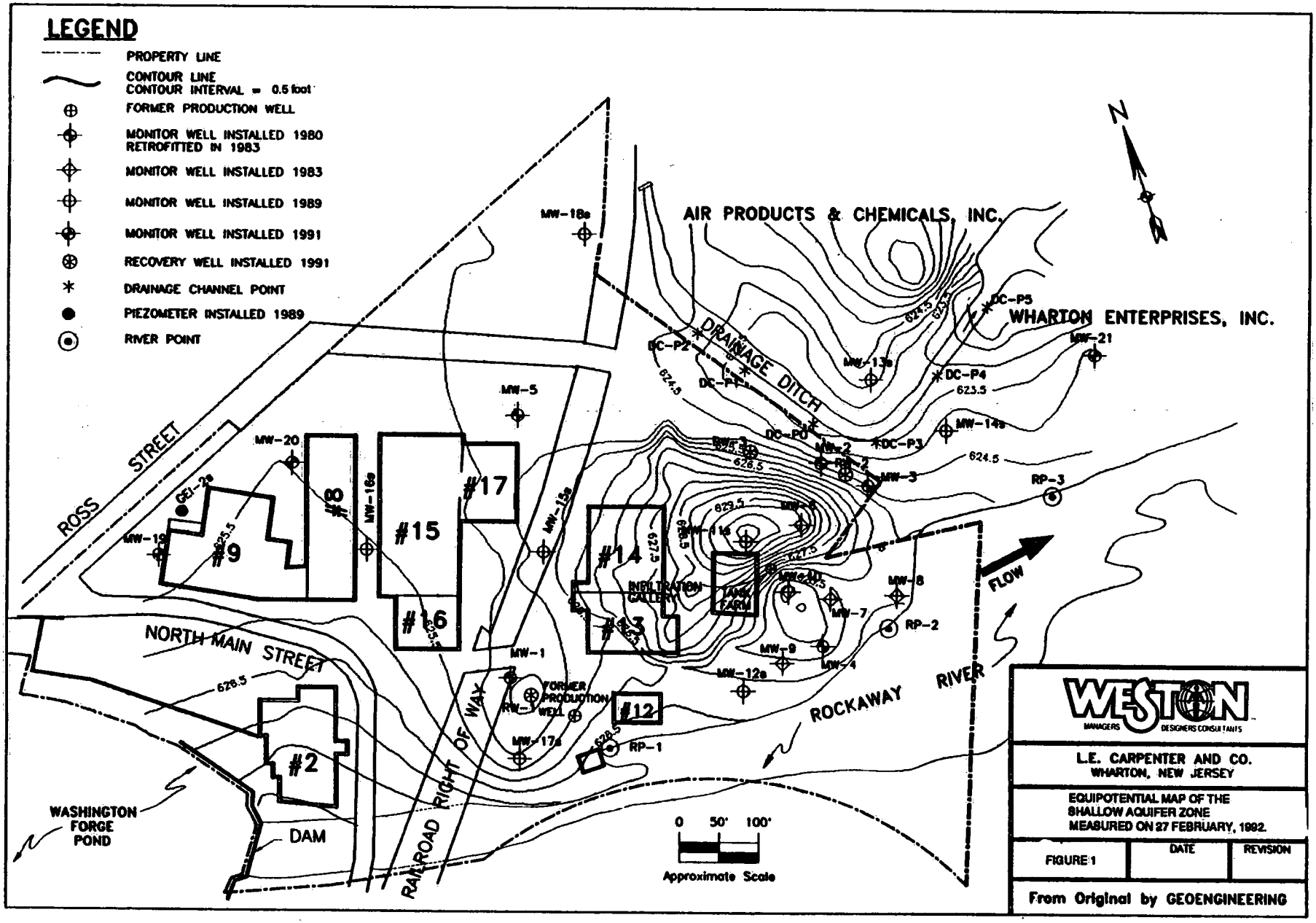
*** Product thickness value represents minimum estimate calculated by subtracting the bottom of well screen elevation fom the top of product elevation.

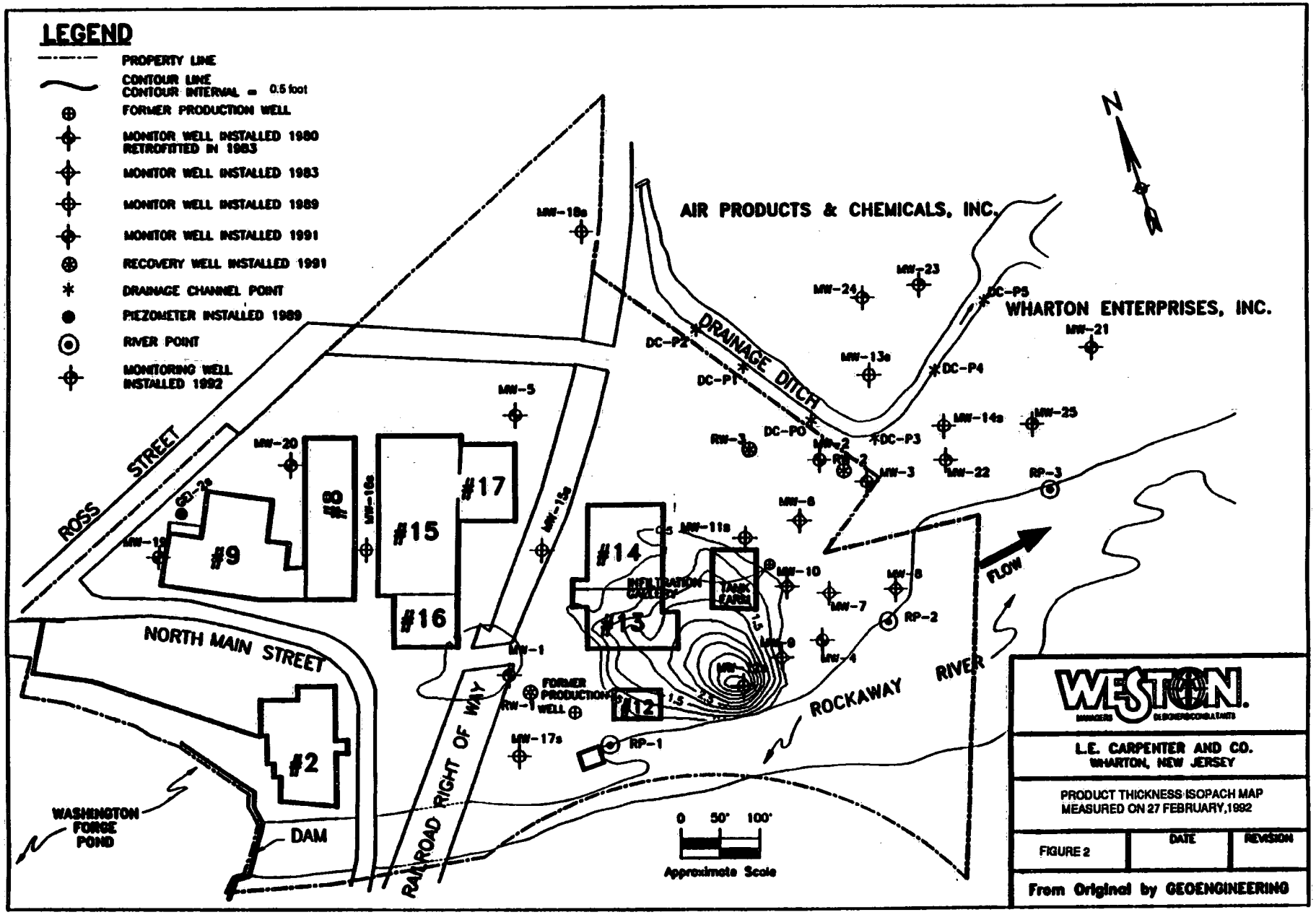
TABLE 3 CONTINUED. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA MEASURED ON 21 APRIL, 1992, L.E. CARPENTER SITE, WHARTON, NJ.

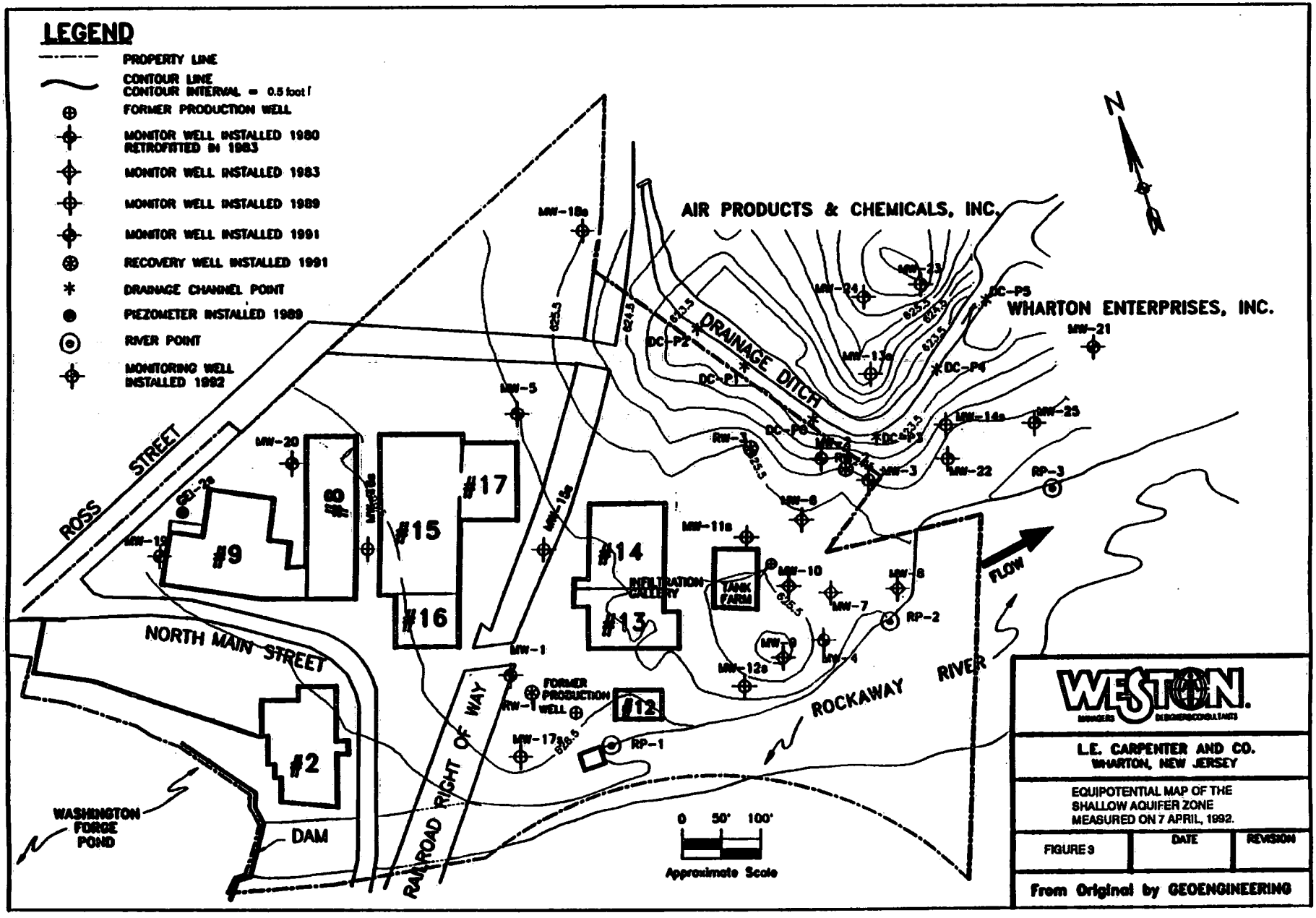
MEASURING POINT	ELEVATION OF MEASURING POINT	DEPTH TO WATER	WATER LEVEL ELEVATION
DC-P0	625.73	2.50	623.23
DC-P1	625.26	1.98	623.28
DC-P2	626.79	3.30	623.49
DC-P3	625.22	2.00	623.22
DC-P4	625.10	2.15	622.95
DC-P5	625.16	2.30	622.86
RP-1	629.65	3.00	626.65
RP-2	627.75	1.50	626.25
RP-3	627.11	2.48	624.63

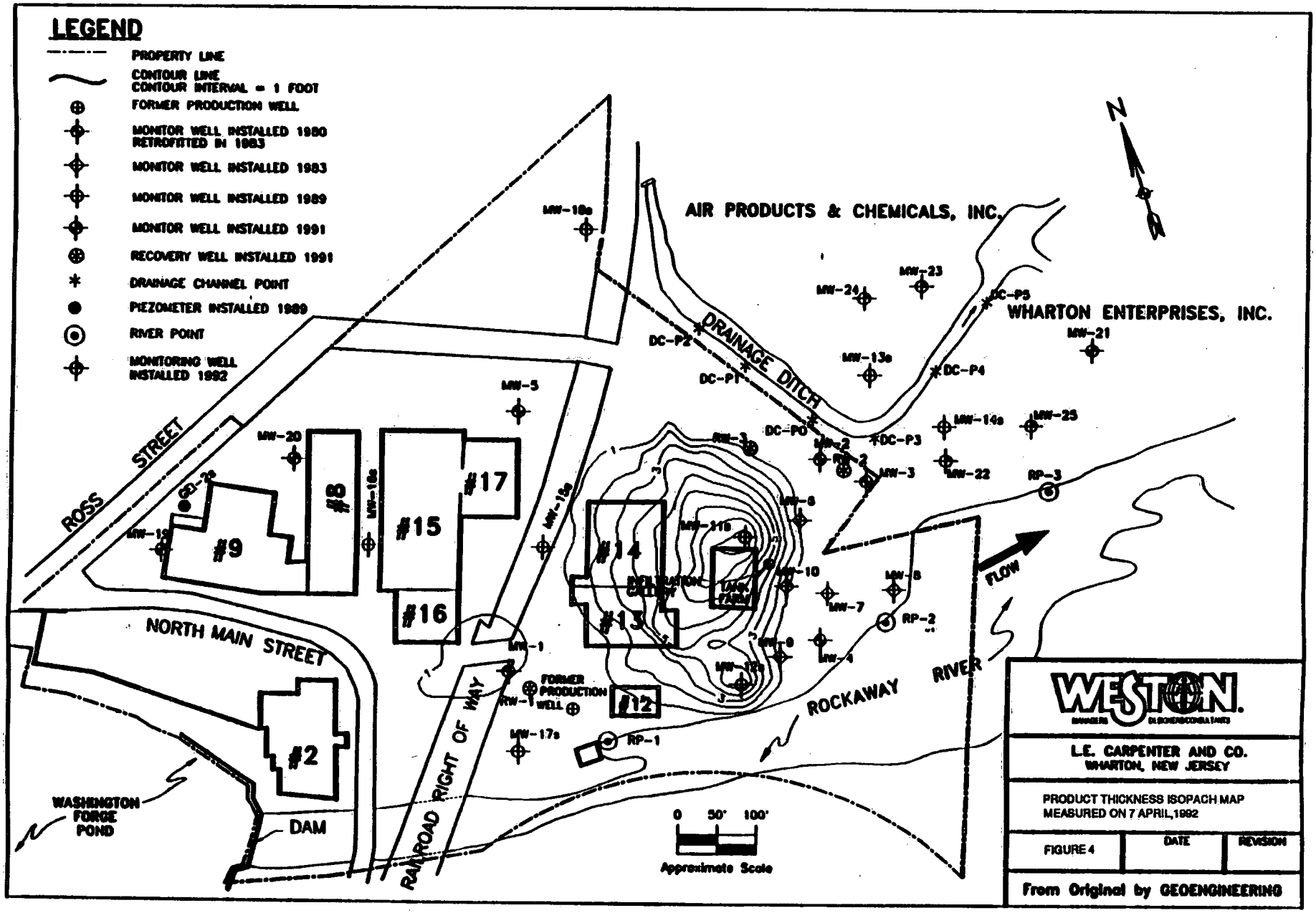
APPENDIX II

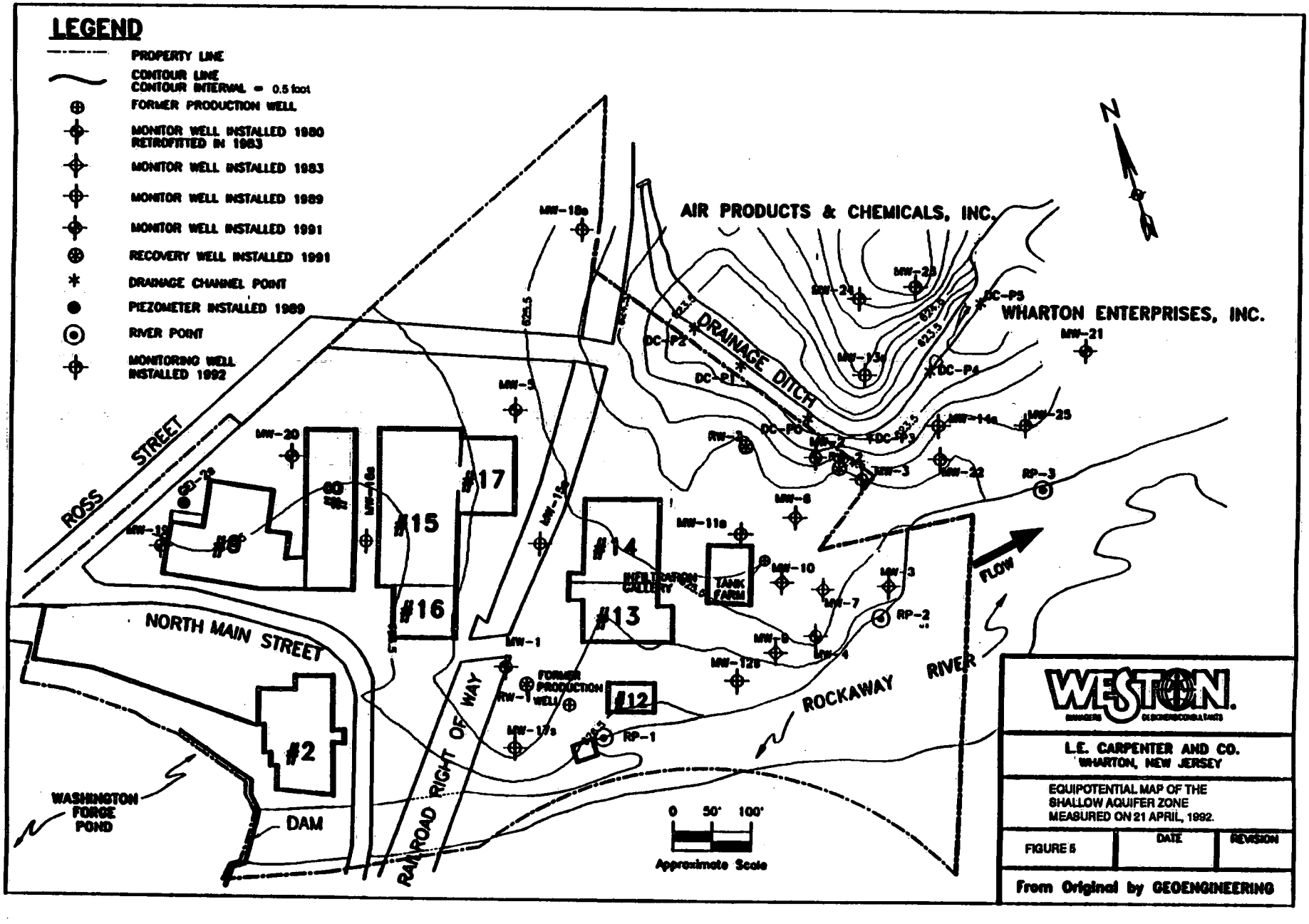
EQUIPOTENTIAL AND PRODUCT THICKNESS ISOPACH MAPS

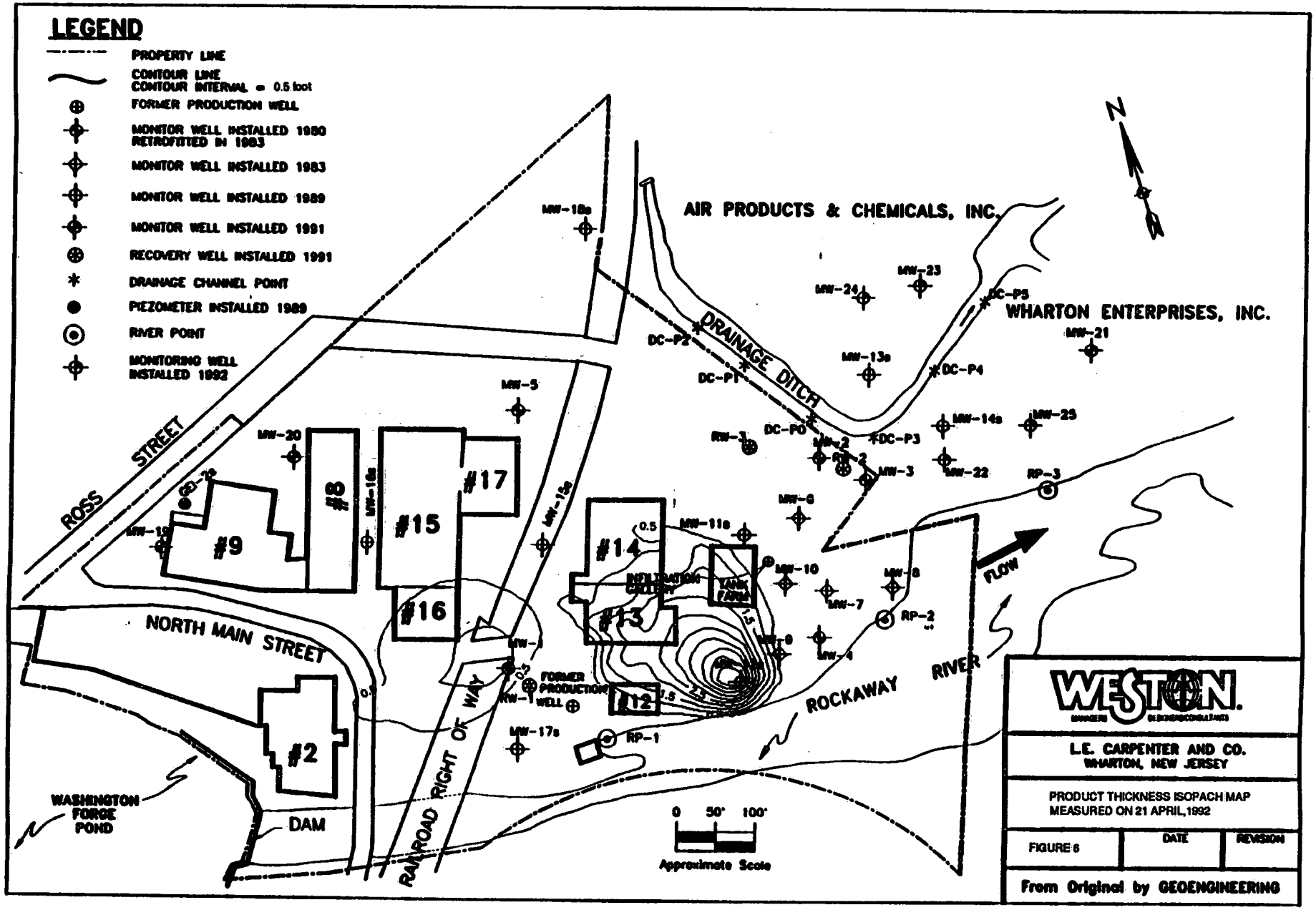

LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.5 foot
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980 RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
ROSS STREET
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
ROCKAWAY RIVER
WASHINGTON FORGE POND
DAM
FLOW
N
#2
#8
#9
#12
#13
#14
#15
#16
#17
INFILTRATION GALLERY
TANK FARM
FORMER PRODUCTION WELL
MW-1
MW-2
MW-3
MW-4
MW-5
MW-7
MW-8
MW-9
MW-12a
MW-13a
MW-14a
MW-15a
MW-16a
MW-17a
MW-18a
MW-19
MW-20
MW-21
DC-P1
DC-P2
DC-P3
DC-P4
DC-P5
RP-1
RP-2
RP-3
GEI-2a
624.5
623.5
625.5
626.5
627.5
628.5
629.5
0 50' 100'
Approximate Scale
WESTON
MANAGERS DESIGNERS CONSULTANTS
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP OF THE SHALLOW AQUIFER ZONE MEASURED ON 27 FEBRUARY, 1992.
FIGURE 1
DATE
REVISION
From Original by GEOENGINEERING

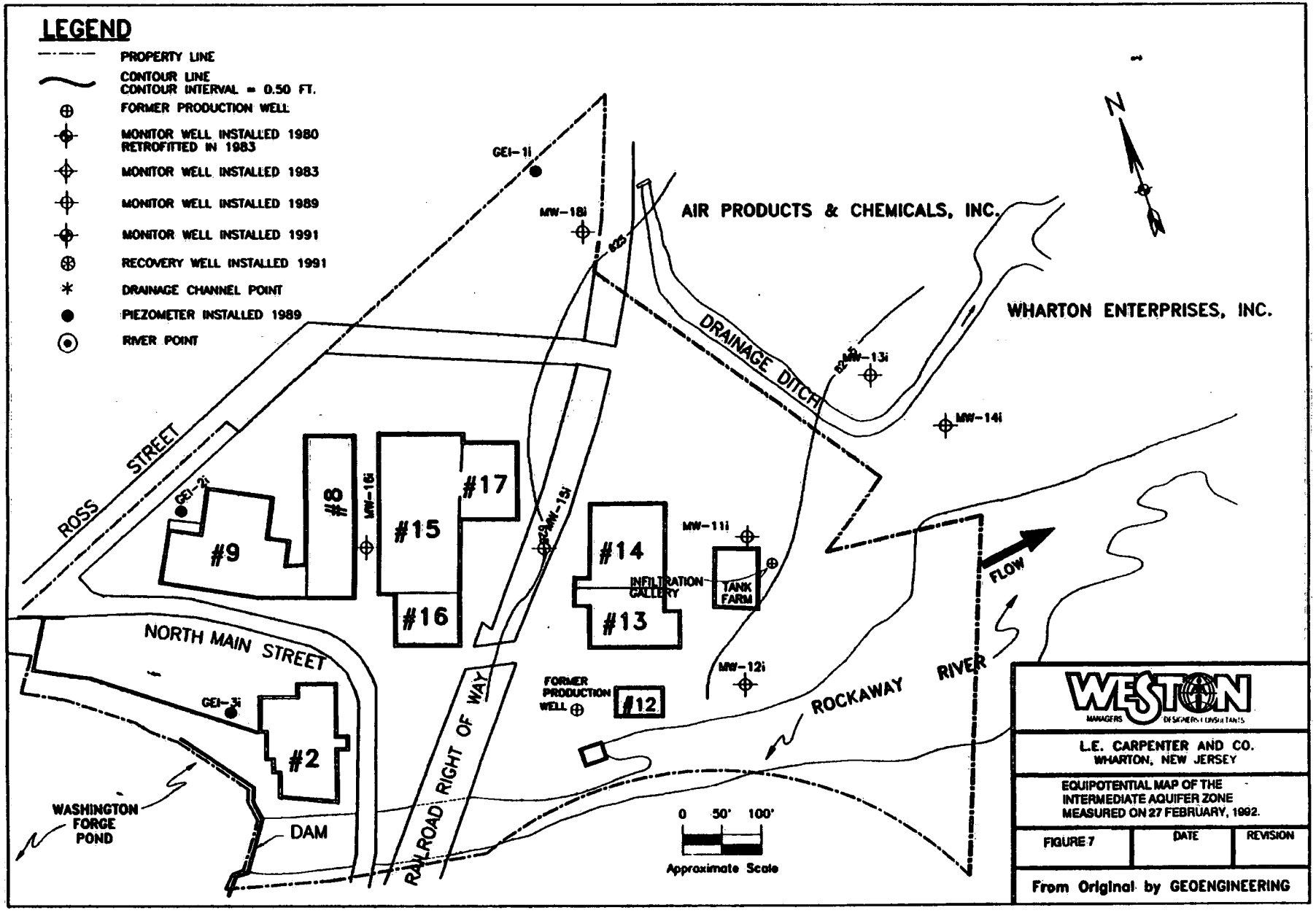

LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.5 foot
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980 RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
MONITORING WELL INSTALLED 1992
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
ROSS STREET
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
ROCKAWAY RIVER
FLOW
WASHINGTON FORGE POND
DAM
#2
#9
#13
#14
#15
#16
#17
INFILTRATION GALLERY
TANK FARM
FORMER PRODUCTION WELL
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11s
MW-13s
MW-14s
MW-15s
MW-16s
MW-17s
MW-18s
MW-19
MW-20
MW-21
MW-22
MW-23
MW-24
MW-25
RW-1
RW-2
RW-3
RP-1
RP-2
RP-3
DC-P1
DC-P2
DC-P3
DC-P4
DC-P5
DC-P6
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
PRODUCT THICKNESS ISOPACH MAP
MEASURED ON 27 FEBRUARY, 1992
FIGURE 2
DATE
REVISION
From Original by GEOENGINEERING

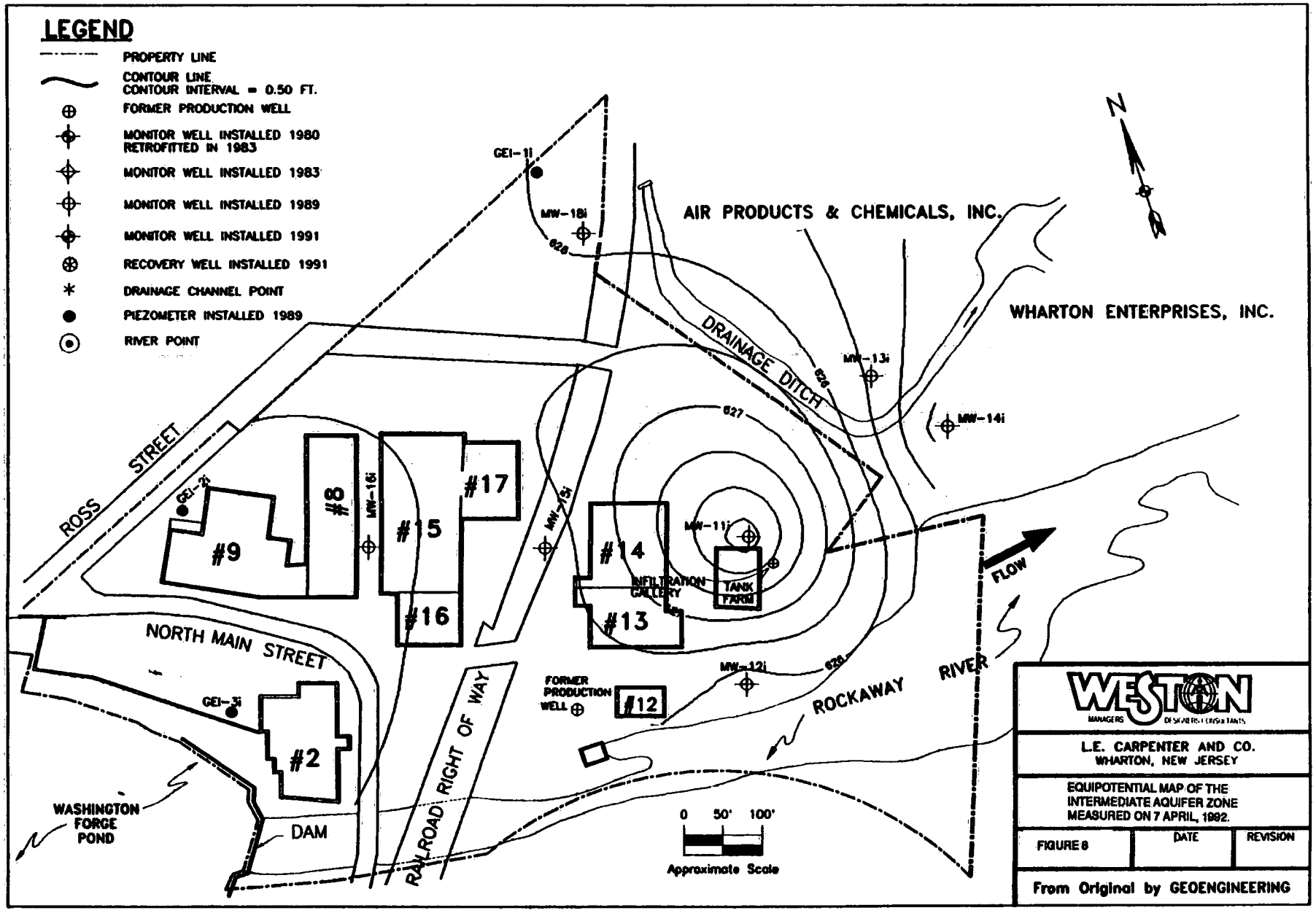

LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.5 foot
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980 RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
MONITORING WELL INSTALLED 1992
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
ROSS STREET
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
ROCKAWAY RIVER
FLOW
WASHINGTON FORGE POND
DAM
#2
#8
#9
#12
#13
#14
#15
#16
#17
INFILTRATION GALLERY
TANK FARM
FORMER PRODUCTION WELL
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11a
MW-12a
MW-13a
MW-14a
MW-15
MW-16a
MW-17a
MW-18a
MW-19
MW-20
MW-21
MW-22
MW-23
MW-24
MW-25
RW-1
RW-2
RW-3
RW-4
RP-1
RP-2
RP-3
DC-P1
DC-P2
DC-P3
DC-P4
DC-P5
DC-P6
0 50' 100'
Approximate Scale
N
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP OF THE SHALLOW AQUIFER ZONE MEASURED ON 7 APRIL, 1992.
FIGURE 9
DATE
REVISION
From Original by GEOENGINEERING

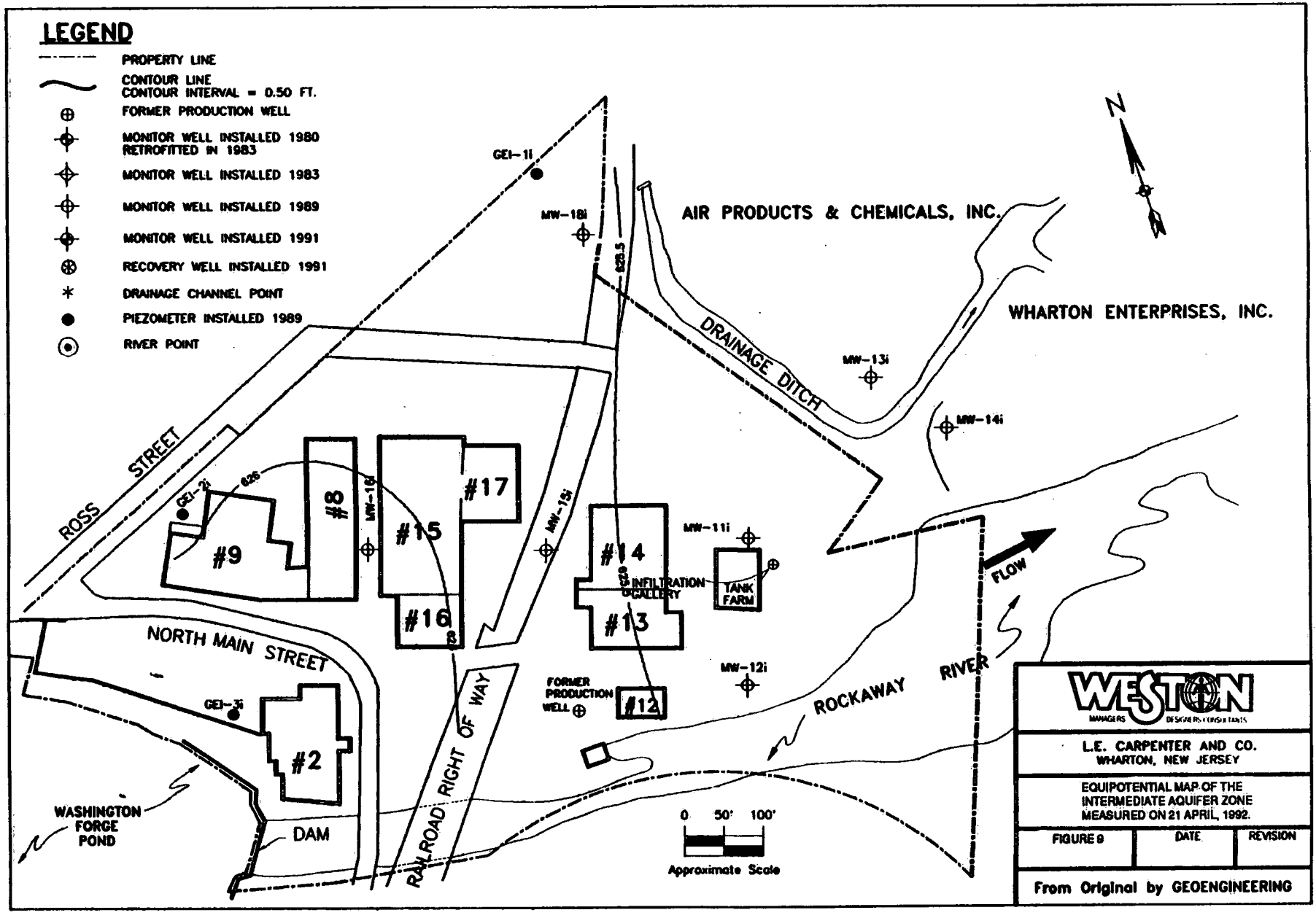

LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 1 FOOT
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980 RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
MONITORING WELL INSTALLED 1992
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
ROSS STREET
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
ROCKAWAY RIVER
FLOW
WASHINGTON FORGE POND
DAM
#2
#8
#9
#12
#13
#14
#15
#16
#17
FORMER PRODUCTION WELL
MW-1
MW-2
MW-3
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11a
MW-11b
MW-13a
MW-14a
MW-15a
MW-16a
MW-17a
MW-18a
MW-19
MW-20
MW-21
MW-22
MW-23
MW-24
MW-25
RW-1
RW-2
RW-3
RP-1
RP-2
RP-3
DC-P0
DC-P1
DC-P2
DC-P3
DC-P4
DC-P5
GEI-26
N
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
PRODUCT THICKNESS ISOPACH MAP
MEASURED ON 7 APRIL, 1992
FIGURE 4
DATE
REVISION
From Original by GEOENGINEERING

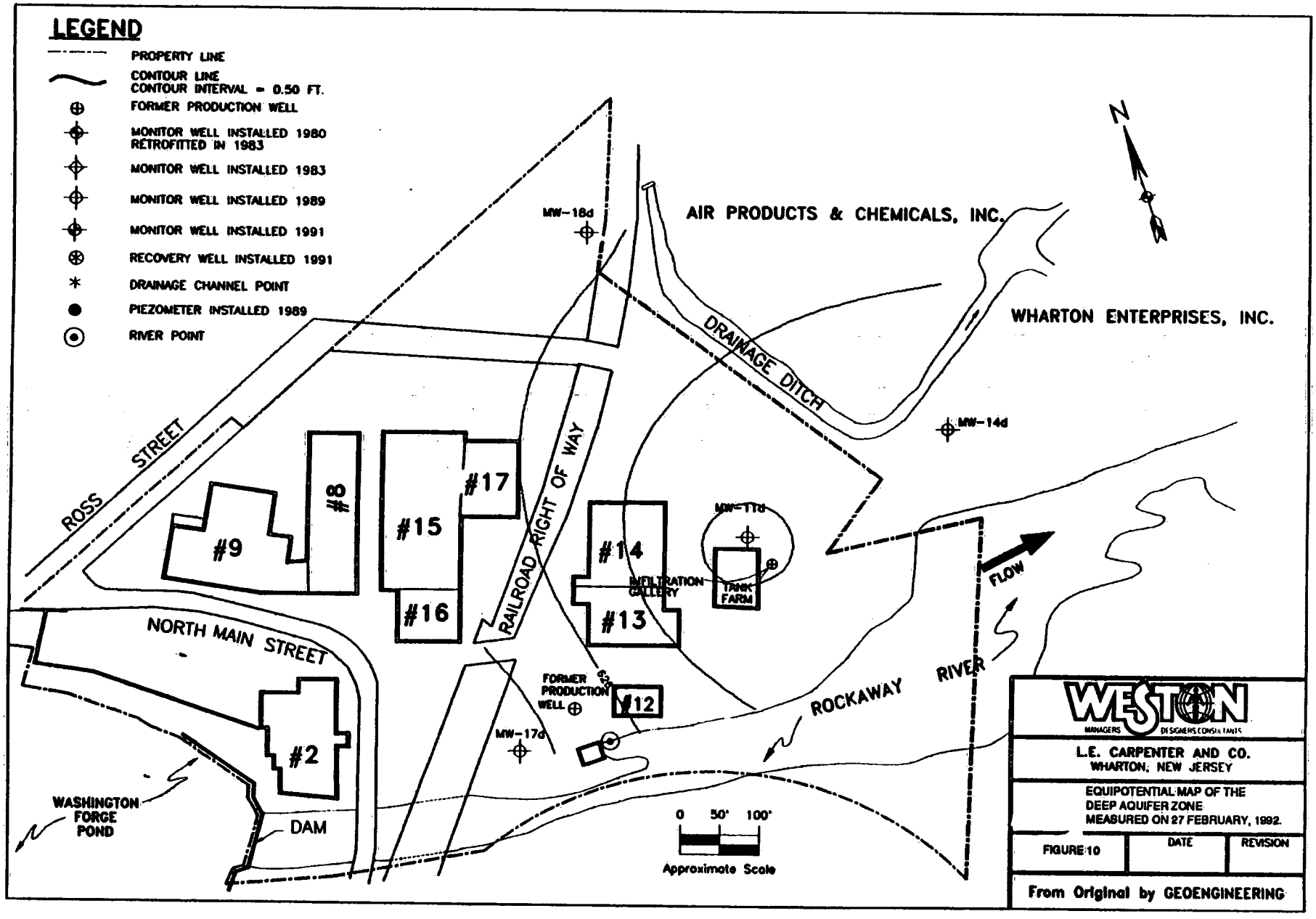

LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.5 foot
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980 RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
MONITORING WELL INSTALLED 1992
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
ROSS STREET
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
ROCKAWAY RIVER
FLOW
WASHINGTON FORGE POND
DAM
#2
#6
#12
#13
#14
#15
#16
#17
TANK FARM
FORMER PRODUCTION WELL
MW-1
MW-2
MW-3
MW-5
MW-6
MW-7
MW-8
MW-10
MW-11s
MW-12s
MW-13s
MW-14s
MW-15s
MW-16s
MW-17s
MW-18s
MW-20
MW-21
MW-22
MW-24
MW-25
DC-P1
DC-P2
DC-P3
DC-P4
DC-P5
RW-1
RW-2
RP-1
RP-2
RP-3
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP OF THE SHALLOW AQUIFER ZONE MEASURED ON 21 APRIL, 1992.
FIGURE 5
DATE
REVISION
From Original by GEOENGINEERING

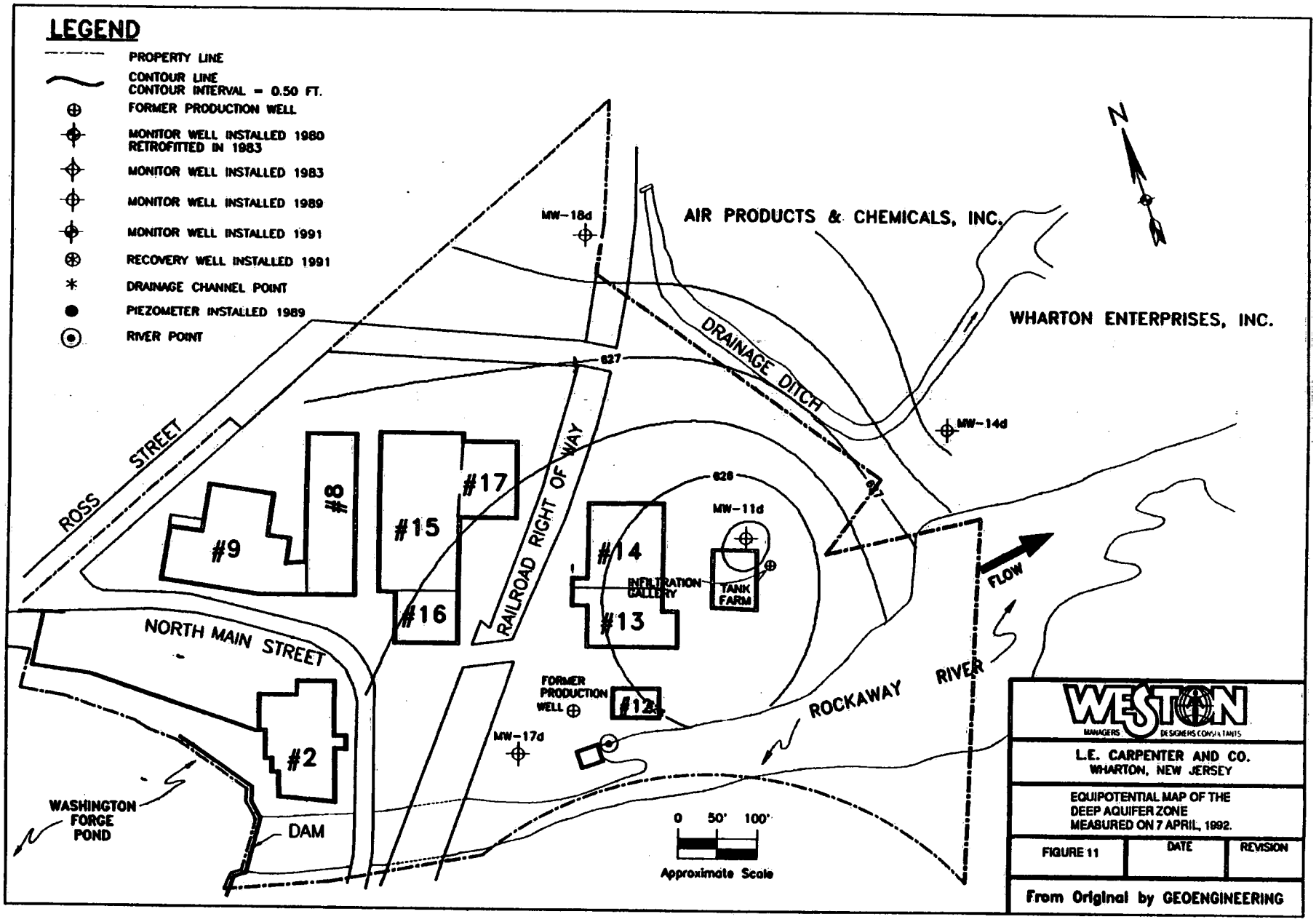

LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.5 foot
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980 RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
MONITORING WELL INSTALLED 1992
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
ROSS STREET
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
ROCKAWAY RIVER
FLOW
WASHINGTON FORGE POND
DAM
#2
#9
#8
#15
#16
#17
#14
#13
#12
INFILTRATION GALLERY
TANK FARM
FORMER PRODUCTION WELL
MW-18s
MW-5
MW-20
MW-19
MW-16s
MW-15s
MW-11s
MW-10
MW-7
MW-8
MW-9
MW-4
MW-6
MW-3
MW-2
MW-22
MW-14s
MW-25
MW-21
MW-23
MW-24
MW-13s
MW-17s
DC-P0
DC-P1
DC-P2
DC-P3
DC-P4
DC-P5
RW-1
RW-2
RW-3
RP-1
RP-2
RP-3
0.5
1.5
2.5
N
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
PRODUCT THICKNESS ISOPACH MAP
MEASURED ON 21 APRIL, 1992
FIGURE 6
DATE
REVISION
From Original by GEOENGINEERING

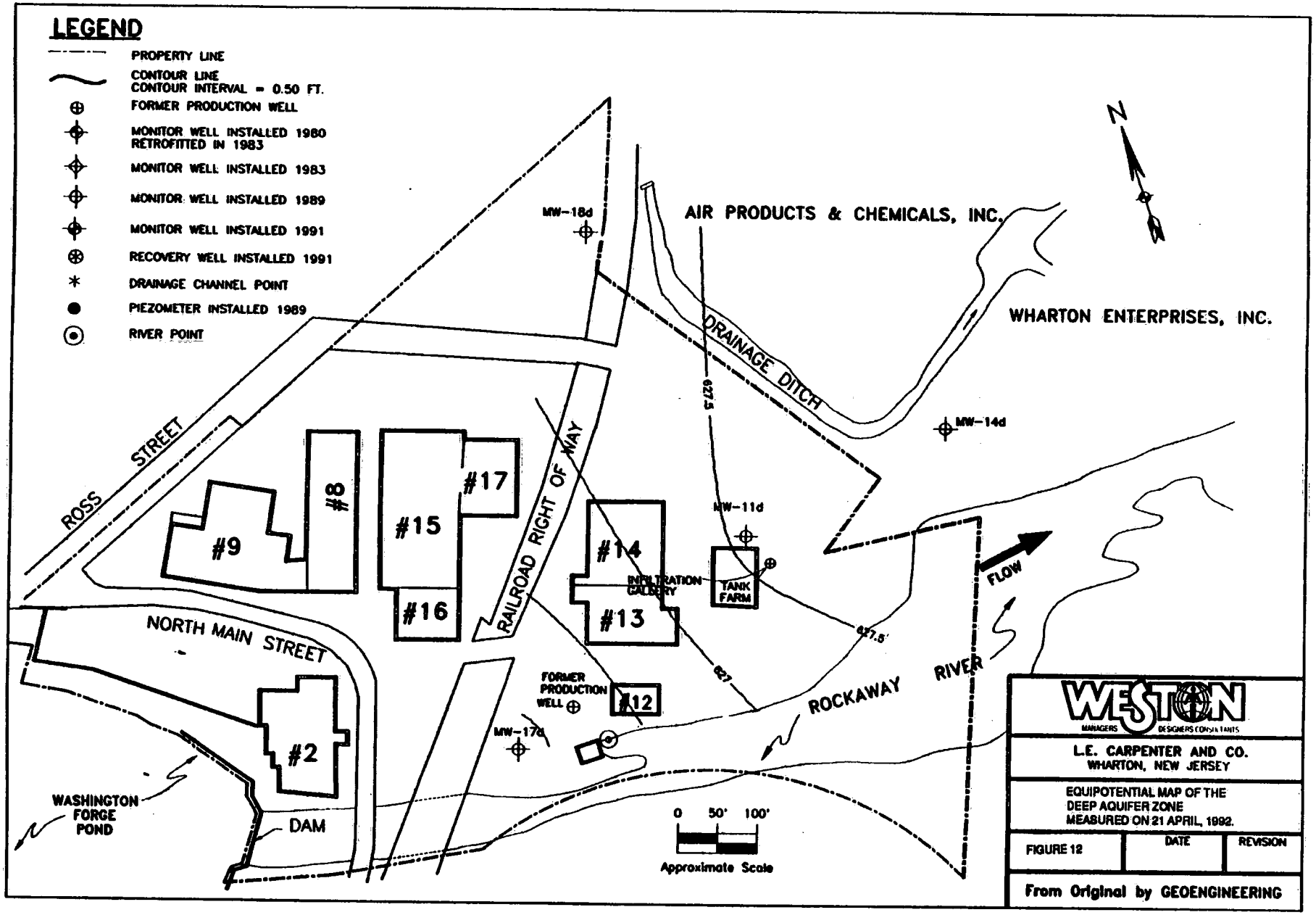

LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980 RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
GEI-1i
MW-18i
MW-13i
MW-14i
MW-11i
MW-12i
MW-16i
MW-15i
GEI-2i
GEI-3i
ROSS STREET
NORTH MAIN STREET
#9
#8
#15
#17
#16
#14
#13
#12
#2
INFILTRATION GALLERY
TANK FARM
FLOW
ROCKAWAY RIVER
RAILROAD RIGHT OF WAY
FORMER PRODUCTION WELL
WASHINGTON FORGE POND
DAM
0 50' 100'
Approximate Scale
WESTON
MANAGERS DESIGNERS CONSULTANTS
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP OF THE INTERMEDIATE AQUIFER ZONE MEASURED ON 27 FEBRUARY, 1992.
FIGURE 7
DATE
REVISION
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980
RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
ROSS STREET
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
ROCKAWAY RIVER
FLOW
DAM
WASHINGTON FORGE POND
FORMER PRODUCTION WELL
INFILTRATION GALLERY
TANK FARM
#2
#8
#9
#12
#13
#14
#15
#16
#17
GEI-1i
GEI-2i
GEI-3i
MW-11i
MW-12i
MW-13i
MW-14i
MW-15i
MW-16i
MW-18i
628
627
626
0 50' 100'
Approximate Scale
WESTON
MANAGERS DESIGNERS CONSULTANTS
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP OF THE INTERMEDIATE AQUIFER ZONE MEASURED ON 7 APRIL, 1992.
FIGURE 8
DATE
REVISION
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980
RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
ROSS STREET
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
ROCKAWAY RIVER
FLOW
WASHINGTON FORGE POND
DAM
GEI-1i
GEI-2i
GEI-3i
MW-18i
MW-16i
MW-15i
MW-13i
MW-14i
MW-11i
MW-12i
#2
#8
#9
#12
#13
#14
#15
#16
#17
INFILTRATION GALLERY
TANK FARM
FORMER PRODUCTION WELL
0 50' 100'
Approximate Scale
WESTON
MANAGERS DESIGNERS CONSULTANTS
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP OF THE INTERMEDIATE AQUIFER ZONE MEASURED ON 21 APRIL, 1992.
FIGURE 9
DATE
REVISION
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980 RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
MW-18d
MW-14d
MW-11d
MW-17d
DRAINAGE DITCH
RAILROAD RIGHT OF WAY
ROSS STREET
NORTH MAIN STREET
#9
#8
#15
#17
#16
#14
#13
#12
#2
INFILTRATION GALLERY
TANK FARM
FORMER PRODUCTION WELL
FLOW
ROCKAWAY RIVER
WASHINGTON FORGE POND
DAM
0 50' 100'
Approximate Scale
WESTON
MANAGERS DESIGNERS CONSULTANTS
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP OF THE DEEP AQUIFER ZONE MEASURED ON 27 FEBRUARY, 1992.
FIGURE 10
DATE
REVISION
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980 RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
MW-18d
MW-14d
MW-11d
MW-17d
DRAINAGE DITCH
RAILROAD RIGHT OF WAY
ROSS STREET
NORTH MAIN STREET
#9
#8
#15
#17
#16
#14
#13
#12
#2
INFILTRATION GALLERY
TANK FARM
FORMER PRODUCTION WELL
ROCKAWAY RIVER
FLOW
WASHINGTON FORGE POND
DAM
0 50' 100'
Approximate Scale
WESTON
MANAGERS DESIGNERS CONSULTANTS
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP OF THE DEEP AQUIFER ZONE MEASURED ON 7 APRIL, 1992.
FIGURE 11
DATE
REVISION
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980
RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
MW-18d
MW-14d
MW-11d
MW-17d
627.5
627.5
627
ROSS STREET
RAILROAD RIGHT OF WAY
NORTH MAIN STREET
#9
#8
#15
#17
#16
#14
#13
#12
#2
INFILTRATION GALLERY
TANK FARM
FORMER PRODUCTION WELL
FLOW
ROCKAWAY RIVER
WASHINGTON FORGE POND
DAM
0 50' 100'
Approximate Scale
WESTON
MANAGERS DESIGNERS CONSULTANTS
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP OF THE
DEEP AQUIFER ZONE
MEASURED ON 21 APRIL, 1992.
FIGURE 12
DATE
REVISION
From Original by GEOENGINEERING

APPENDIX III

VOLATILE ORGANIC COMPOUND PLUS XYLENE ANALYTICAL RESULTS

Roy F. Weston, Inc. - Lionville Laboratory
VOA ANALYTICAL DATA PACKAGE FOR
WSI-LE CARPENTER

DATE RECEIVED: 04/08/92 RFW LOT # :9204L922

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
MW-2	001	W	92LVW063	04/07/92	N/A	04/13/92
MW-2	001 MS	W	92LVW063	04/07/92	N/A	04/13/92
MW-2	001 MSD	W	92LVW063	04/07/92	N/A	04/13/92
MW-3	002	W	92LVW062	04/07/92	N/A	04/10/92
MW-3	002 D1	W	92LVW063	04/07/92	N/A	04/13/92
MW-4	003	W	92LVW062	04/07/92	N/A	04/10/92
MW-4	003 R1	W	92LVW063	04/07/92	N/A	04/13/92
MW-5	004	W	92LVW062	04/07/92	N/A	04/10/92
FB	005	W	92LVW062	04/07/92	N/A	04/10/92

LAB QC:

VBLK	MB1	W	92LVW063	N/A	N/A	04/13/92
VBLK	MB1	W	92LVW062	N/A	N/A	04/10/92

INTRO: PAGE

Chain Of Custody..... 1
Data Summary..... 3

I. Case Narrative..... 8

II. QC Summary..... 10
A. Surrogate % Recovery Summary (Form 2)
B. Matrix Spike (Form 3)
C. Reagent Blank Summary (Form 4)
D. GC/MS Tuning and Calibration Standard (Form 5)
E. Internal Standard Summary (Form 8) (if applicable)

III. Sample Data Package..... 20
A. Sample Data in order of RFW sample number
1. Tabulated Results (Form 1)
2. Tentatively identified compound (form 1E)
3. Raw Data in order:
a. Reconstructed Ion Chromatogram(s)
b. Quantitation Report(s)
c. HSL Mass Spectra
d. TIC Mass Spectra
e. GC/MS Library Search for TIC

IV. Standards Data Package..... 102
A. Initial Calibration Data:
1. Form 6
2. Reconstructed Ion Chromatogram(s) and Quantitation Report(s)

B. Continuing Calibration Data
1. Form 7
2. Reconstructed Ion Chromatogram(s) and Quantitation Report(s)

C. Internal Standard Summary (Form 8) (if applicable)

V. Raw QC Data Package..... 136
A. GC/MS Tuning and Calibration Standard: DFTPP
1. Bar Graph
2. Mass Listing

B. Blank Data
1. Tabulated Results (Form 1)
2. TIC Results (Form 1B)
3. Raw Data
a. Reconstructed Ion Chromatogram(s) and Quantitation Report(s)
b. HSL Spectra
c. TIC Spectra
d. GC/MS Library Search for TIC

C. Matrix Spike Data (if applicable)
1. Tabulated Results (Form 1)
2. Raw Data
a. Reconstructed Ion Chromatogram(s)
b. Quantitation Report(s)

VI. Additional Documentation..... 163
A. Extraction Record

CHAIN OF CUSTODY

WESTON Analytics Use Only

9204L922

Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: WSI - L. E. CARPENTER
Est. Final Proj. Sampling Date: 0000
Work Order #: 3600-04-90-0000
Project Contact/Phone #: KEN TYSON
AD Project Manager: M Young
QC: CLP Del: CLP TAT: 30 DAY
Date Rec'd: 4/8/92 Date Due: 5/8/92
Account #: WSI-LECARP

Refrigerator #
#/Type Container: Liquid / Solid
Volume: Liquid / Solid
Preservatives

ANALYSES REQUESTED →

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	ORGANIC VOA (VOC + XYLENE)	BNA	Pest/PCB	Herb	INORG Metal	CN
001	MW-2	✓	✓	W	4/7/92	15:00	✓				Reid 2 @ 40 ml	(No X-tra volume)
2	MW-3			W	4/7/92	15:30	✓				3 @ 40	
3	MW-4			W	4/7/92	14:30	✓				2 @ 40	
4	MW-5			W	4/7/92	13:30	✓				3 @ 40	
5	FB			W	4/7/92	14:00	✓				2 @ 40	

MATRIX CODES: S - Soil, SE - Sediment, SO - Solid, SL - Sludge, W - Water, O - Oil, A - Air, DS - Drum Solids, DL - Drum Liquids, L - EP/TCLP Leachate, WI - Wipe, X - Other, F - Fish

WESTON Analytics Use Only

88 CLP SOW

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
CLP VOC + XYLENE
STANDARD 30 DAY
T-A-T

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ✓ or Hand Delivered ___
Airbill # 3338274903
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

duct 4/8/92 Medical tape

Relinquished by	Received by	Date	Time
[illegible]	FED EX	3/7	16:44
[illegible]	[illegible]	4/8/92	9:30 AM

Relinquished by	Received by	Date	Time
	[illegible] 4/8/92		

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES: No date or time on VOAs

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# 6021 Cooler# [illegible] 381-596a

DATA SUMMARY

Roy F. Weston, Inc. - Lionville Laboratory
Volatiles by GC/MS, Priority Pollutant List

RFW Batch Number: 9204L922 Client: WSI-LE CARPENTER Work Order: 3600-04-90-0000 Report Date: 05/08/92 15:39 Page: 1a

	Cust ID:	MW-2		MW-2		MW-2		MW-3		MW-3		MW-4	
Sample Information	RFW#:	001		001 MS		001 MSD		002		002 DL		003	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1.00		1.00		1.00		1.00		100		1.00	
	Units:	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	Toluene-d8	99	%	99	%	104	%	102	%	101	%	99	%
	Bromofluorobenzene	100	%	101	%	102	%	108	%	100	%	104	%
	1,2-Dichloroethane-d4	102	%	110	%	112	%	100	%	110	%	101	%
			fl		fl		fl		fl		fl		fl
Chloromethane		10	U	10	U	10	U	10	U	NA		10	U
Bromomethane		10	U	10	U	10	U	10	U	NA		10	U
Vinyl Chloride		10	U	10	U	10	U	10	U	NA		10	U
Chloroethane		10	U	10	U	10	U	10	U	NA		10	U
Methylene Chloride		2	JB	1	JB	4	JB	7	B	NA		7	B
1,1-Dichloroethene		5	U	117	%	112	%	5	U	NA		5	U
1,1-Dichloroethane		5	U	5	U	5	U	5	U	NA		5	U
1,2-Dichloroethene (total)		5	U	5	U	5	U	5	U	NA		5	U
Chloroform		5	U	5	U	5	U	5	U	NA		5	U
1,2-Dichloroethane		5	U	5	U	5	U	5	U	NA		5	U
1,1,1-Trichloroethane		5	U	5	U	5	U	5	U	NA		5	U
Carbon Tetrachloride		5	U	5	U	5	U	5	U	NA		5	U
Bromodichloromethane		5	U	5	U	5	U	5	U	NA		5	U
1,2-Dichloropropane		5	U	5	U	5	U	5	U	NA		5	U
cis-1,3-Dichloropropene		5	U	5	U	5	U	5	U	NA		5	U
Trichloroethene		5	U	114	%	109	%	5	U	NA		5	U
Dibromochloromethane		5	U	5	U	5	U	5	U	NA		5	U
1,1,2-Trichloroethane		5	U	5	U	5	U	5	U	NA		5	U
Benzene		5	U	110	%	109	%	2	J	NA		5	U
Trans-1,3-Dichloropropene		5	U	5	U	5	U	5	U	NA		5	U
2-chloroethylvinylether		10	U	10	U	10	U	10	U	NA		10	U
Bromoform		5	U	5	U	5	U	5	U	NA		5	U
Tetrachloroethene		5	U	5	U	5	U	5	U	NA		5	U
1,1,2,2-Tetrachloroethane		5	U	5	U	5	U	5	U	NA		5	U
Toluene		5	U	113	%	112	%	7		NA		5	U
Chlorobenzene		5	U	117	%	114	%	5	U	NA		5	U
Ethylbenzene		6		6		6		1200	E	200	J	100	
1,2-Dichlorobenzene		5	U	5	U	5	U	5	U	NA		5	U
1,3-Dichlorobenzene		5	U	5	U	5	U	5	U	NA		5	U

*= Outside of EPA CLP QC limits.

000004

Cust ID:	MW-2	MW-2	MW-2	MW-3	MW-3	MW-4
RFW#:	001	001 MS	001 MSD	002	002 DL	003
1,4-Dichlorobenzene	5 U	5 U	5 U	5 U	NA	5 U
Acrolein	10 U	10 U	10 U	10 U	NA	10 U
Acrylonitrile	10 U	10 U	10 U	10 U	NA	10 U
Trichlorofluoromethane	5 U	5 U	5 U	5 U	NA	5 U
Xylene (total)	76	80	80	E	15000	340

*= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Lionville Laboratory
Volatiles by GC/MS, Priority Pollutant List

RFW Batch Number: 9204L922 Client: WSI-LE CARPENTER Work Order: 3600-04-90-0000 Report Date: 05/08/92 15:39 Page: 2a

	Cust ID:	MW-4		MW-5		FB		VBLK		VBLK	
Sample Information	RFW#:	003		004		005		92LVW063-MB1		92LVW062-MB1	
	Matrix:	WATER		WATER		WATER		WATER		WATER	
	D.F.:	1.00		1.00		1.00		1.00		1.00	
	Units:	UG/L		UG/L		UG/L		UG/L		UG/L	
		REP	REP								
Surrogate Recovery	Toluene-d8	101	%	99	%	100	%	99	%	100	%
	Bromofluorobenzene	102	%	97	%	111	%	99	%	97	%
	1,2-Dichloroethane-d4	114	%	98	%	98	%	102	%	92	%
			fl		fl		fl		fl		fl
Chloromethane		10	U	10	U	10	U	10	U	10	U
Bromomethane		10	U	10	U	10	U	10	U	10	U
Vinyl Chloride		10	U	10	U	10	U	10	U	10	U
Chloroethane		10	U	10	U	10	U	10	U	10	U
Methylene Chloride		9	B	6	B	11	B	1	J	2	J
1,1-Dichloroethene		5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane		5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)		5	U	5	U	5	U	5	U	5	U
Chloroform		5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane		5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane		5	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride		5	U	5	U	5	U	5	U	5	U
Bromodichloromethane		5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane		5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U
Trichloroethene		5	U	5	U	5	U	5	U	5	U
Dibromochloromethane		5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane		5	U	5	U	5	U	5	U	5	U
Benzene		5	U	5	U	5	U	5	U	5	U
Trans-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U
2-chloroethylvinylether		10	U	10	U	10	U	10	U	10	U
Bromoform		5	U	5	U	5	U	5	U	5	U
Tetrachloroethene		5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane		5	U	5	U	5	U	5	U	5	U
Toluene		5	U	5	U	5	U	5	U	5	U
Chlorobenzene		5	U	5	U	5	U	5	U	5	U
Ethylbenzene		5	U	5	U	5	U	5	U	5	U
1,2-Dichlorobenzene		5	U	5	U	5	U	5	U	5	U
1,3-Dichlorobenzene		5	U	5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

000006

Cust ID:	MW-4		MW-5		FB		VBLK		VBLK	
RFW#:	003 REP	REP	004		005		92LVW063-MB1		92LVW062-MB1	
1,4-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U
Acrolein	10	U	10	U	10	U	10	U	10	U
Acrylonitrile	10	U	10	U	10	U	10	U	10	U
Trichlorofluoromethane	5	U	5	U	5	U	5	U	5	U
Xylene (total)	190		5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

000007

CASE NARRATIVE

8A

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WSI-LE CARPENTER **SAMPLES RECEIVED:** 04-08-92
RFW #: 9204L922, GC/MS VOLATILE
W.O. #: 3600-04-90

NARRATIVE

The set of samples consisted of five (5) water samples collected on 04-07-92.

The samples were analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for Priority Pollutant Volatile target compounds on 04-10,13-92.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. Non-target compounds were detected in these samples.

2. Sample MW-3 required a 100-fold dilution because it contained high levels of target compounds.

3. The initial analysis of sample MW-4 yielded a result for xylene which slightly exceeded the calibration range at 340 ug/L. When the sample was diluted, much lower results were obtained (these results have not been reported). A second undiluted analysis was then performed. Results for ethylbenzene were inconsistent between the two undiluted analyses. The inconsistency of results may have been due to sample differences between the two vials.

4. All surrogate recoveries were within EPA QC limits.

5. All matrix spike recoveries were within EPA QC limits.

6. The laboratory blanks contained the common contaminant methylene chloride at a level less than the CRQL.

8B

WESTON
MANAGERS DESIGNERS/CONSULTANTS

7. All internal standard area and retention time criteria were met.

05.08.92

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

Date

kls/04-922v.cn

WESTON

GLOSSARY OF VOA DATA

DATA QUALIFIERS

U = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero; for example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I = Interference.

X = Additional qualifiers used as required are explained in the case narrative.

NQ = Result qualitatively confirmed but not able to quantify.

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA = Not applicable.

DF = Dilution factor.

NR = Not required.

II. QC SUMMARY

A. SURROGATE % RECOVERY SUMMARY
(FORM 2)

B. MATRIX SPIKE
(FORM 3)

C. REAGENT BLANK SUMMARY
(FORM 4)

D. GC/MS TUNING AND CALIBRATION STANDARD
(FORM 5)

E. INTERNAL STANDARD SUMMARY
(FORM 8) (IF APPLICABLE)

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

RFW Lot No.: 9204L922

	CLIENT SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	MW-2	99	100	102		0
02	MW-2MS	99	101	110		0
03	MW-2MSD	104	102	112		0
04	MW-3	102	108	100		0
05	MW-3DL	101	100	110		0
06	MW-4	99	104	101		0
07	MW-4RE	101	102	114		0
08	MW-5	99	97	98		0
09	FB	100	111	98		0
10	VBLKLVW063-MB1	99	99	102		0
11	VBLKLVW062-MB1	100	97	92		0

BKR 5/14/92

	QC LIMITS
S1 (TOL) = Toluene-d8	(88-110)
S2 (BFB) = Bromofluorobenzene	(86-115)
S3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot No.: 9204L922-001

MATRIX Spike - Sample No.: MW-2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	58.4	117	61 -145
Trichloroethene	50.0	0	56.8	114	71 -120
Benzene	50.0	0	54.8	110	76 -127
Toluene	50.0	0	56.4	113	76 -125
Chlorobenzene	50.0	0	58.4	117	75 -130

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50.0	55.8	112	4	14	61 -145
Trichloroethene	50.0	54.5	109	4	14	71 -120
Benzene	50.0	54.3	109	0	11	76 -127
Toluene	50.0	56.0	112	0	13	76 -125
Chlorobenzene	50.0	57.1	114	2	13	75 -130

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: W041003 Lab Sample ID: 92LVW062-MB1

Date Analyzed: 04/10/92 Time Analyzed: 1051

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: 1050W

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	FB	9204L922-005	W041010	1625
02	MW-5	9204L922-004	W041011	1710
03	MW-4	9204L922-003	W041012	1755
04	MW-3	9204L922-002	W041013	1840

COMMENTS:

BLA 5/4/92

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: W041303 Lab Sample ID: 92LVW063-MB1

Date Analyzed: 04/13/92 Time Analyzed: 1057

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: 1050W

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW-2	9204L922-001	W041304	1205
02	MW-2MS	9204L922-001S	W041305	1250
03	MW-2MSD	9204L922-001T	W041306	1335
04	MW-3DL	9204L922-002	W041308	1506
05	MW-4RE	9204L922-003	W041313	1853

COMMENTS:

BLR 5/14/92

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: W040201 BFB Injection Date: 04/02/92

Instrument ID: 1050W BFB Injection Time: 1119

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	34.0 ✓
75	30.0 - 60.0% of mass 95	51.3 ✓
95	Base peak, 100% relative abundance	100.0 ✓
96	5.0 - 9.0% of mass 95	7.2 ✓
173	Less than 2.0% of mass 174	0.0(✓ 0.0)1
174	Greater than 50.0% of mass 95	69.1 ✓
175	5.0 - 9.0% of mass 174	5.5(✓ 8.0)1
176	Greater than 95.0% but less than 101.0% of mass 174	67.9(✓ 98.4)1
177	5.0 - 9.0% of mass 176	5.8(✓ 8.5)2

1-Value is % mass 174 2-Value is % mass 176

BLL 5/4/92

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD20	VSTD20	W040207	04/02/92	1757 ✓
02	VSTD50	VSTD50	W040208	04/02/92	1842 ✓
03	VSTD100	VSTD100	W040209	04/02/92	1927 ✓
04	VSTD150	VSTD150	W040210	04/02/92	2013 ✓
05	VSTD200	VSTD200	W040211	04/02/92	2058 ✓
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: W041001 BFB Injection Date: 04/10/92

Instrument ID: 1050W BFB Injection Time: 910

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	34.3 ✓
75	30.0 - 60.0% of mass 95	59.1 ✓
95	Base peak, 100% relative abundance	100.0 ✓
96	5.0 - 9.0% of mass 95	6.9 ✓
173	Less than 2.0% of mass 174	0.0(✓ 0.0)1
174	Greater than 50.0% of mass 95	69.0 ✓
175	5.0 - 9.0% of mass 174	5.4(✓ 7.8)1
176	Greater than 95.0% but less than 101.0% of mass 174	67.3(✓ 97.4)1
177	5.0 - 9.0% of mass 176	5.6(✓ 8.4)2

1-Value is % mass 174 2-Value is % mass 176

BKR 5/4/92

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	W041002	04/10/92	1006✓
02	VBLKLVW062-MB1	92LVW062-MB1	W041003	04/10/92	1051✓
03	FB	9204L922-005	W041010	04/10/92	1625✓
04	MW-5	9204L922-004	W041011	04/10/92	1710✓
05	MW-4	9204L922-003	W041012	04/10/92	1755✓
06	MW-3	9204L922-002	W041013	04/10/92	1840✓
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

0 0 0 0 1 7
5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: W041301 BFB Injection Date: 04/13/92

Instrument ID: 1050W BFB Injection Time: 852

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	30.6
75	30.0 - 60.0% of mass 95	56.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	70.1
175	5.0 - 9.0% of mass 174	5.4(7.7)1
176	Greater than 95.0% but less than 101.0% of mass 174	67.1(95.7)1
177	5.0 - 9.0% of mass 176	3.8(5.7)2

1-Value is % mass 174 2-Value is % mass 176

BLR 5/14/92

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	W041302	04/13/92	1012
02	VBLKLVW063-MB1	92LVW063-MB1	W041303	04/13/92	1057
03	MW-2	9204L922-001	W041304	04/13/92	1205
04	MW-2MS	9204L922-001S	W041305	04/13/92	1250
05	MW-2MSD	9204L922-001T	W041306	04/13/92	1335
06	MW-3DL	9204L922-002	W041308	04/13/92	1506
07	MW-4RE	9204L922-003	W041313	04/13/92	1853
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9204L922

Lab File ID (Standard): W041002 Date Analyzed: 04/10/92

Instrument ID: 1050W Time Analyzed: 1006

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	49387	9.03	262783	19.50	248222	24.33
	UPPER LIMIT	98774	9.53	525566	20.00	496444	24.83
	LOWER LIMIT	24694	8.53	131392	19.00	124111	23.83
	CLIENT SAMPLE NO.						
01	MW-3	45240	8.97	246667	19.40	229798	24.20
02	MW-4	46140	9.13	248415	19.50	234327	24.30
03	MW-5	43797	9.17	237879	19.60	225055	24.47
04	FB	41882	9.20	228431	19.63	215596	24.47
05	VBLKLVW062-MB1	48399	9.13	255038	19.63	242055	24.47

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

BKR 5/14/92

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9204L922

Lab File ID (Standard): W041302 Date Analyzed: 04/13/92

Instrument ID: 1050W Time Analyzed: 1012

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	51187	9.00	264182	19.47	247197	24.33
	UPPER LIMIT	102374	9.50	528364	19.97	494394	24.83
	LOWER LIMIT	25594	8.50	132091	18.97	123599	23.83
	CLIENT SAMPLE NO.						
01	MW-2	43381	9.23	238280	19.60	226325	24.40
02	MW-2MS	42040	9.10	232903	19.57	223540	24.37
03	MW-2MSD	39795	9.03	226423	19.57	215518	24.37
04	MW-3DL	39110	9.17	221493	19.60	217707	24.40
05	MW-4RE	34886	9.20	205989	19.60	190208	24.40
06	VBLKLVW063-MB1	45223	9.13	240730	19.60	233662	24.43

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

BCR 5/14/92

Column used to flag internal standard area values with an asterisk

III. SAMPLE DATA PACKAGE

A. SAMPLE DATA IN ORDER OF RFW SAMPLE NUMBER

1. TABULATED RESULTS
   (FORM 1)

2. TENTATIVELY IDENTIFIED COMPOUND
   (FORM 1E)

3. RAW DATA IN ORDER:

   a. RECONSTRUCTED ION CHROMATOGRAM(S)
   b. QUANTITATION REPORT(S)
   c. HSL MASS SPECTRA
   d. TIC MASS SPECTRA
   e. GC/MS LIBRARY SEARCH FOR TIC

1A

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-2

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9204L922-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041304

Level: (low/med) LOW

Date Received: 04/08/92

% Moisture: not dec. _____

Date Analyzed: 04/13/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	JB
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	6	
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	76	

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-2

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9204L922-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041304

Level: (low/med) LOW

Date Received: 04/08/92

% Moisture: not dec. _____

Date Analyzed: 04/13/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

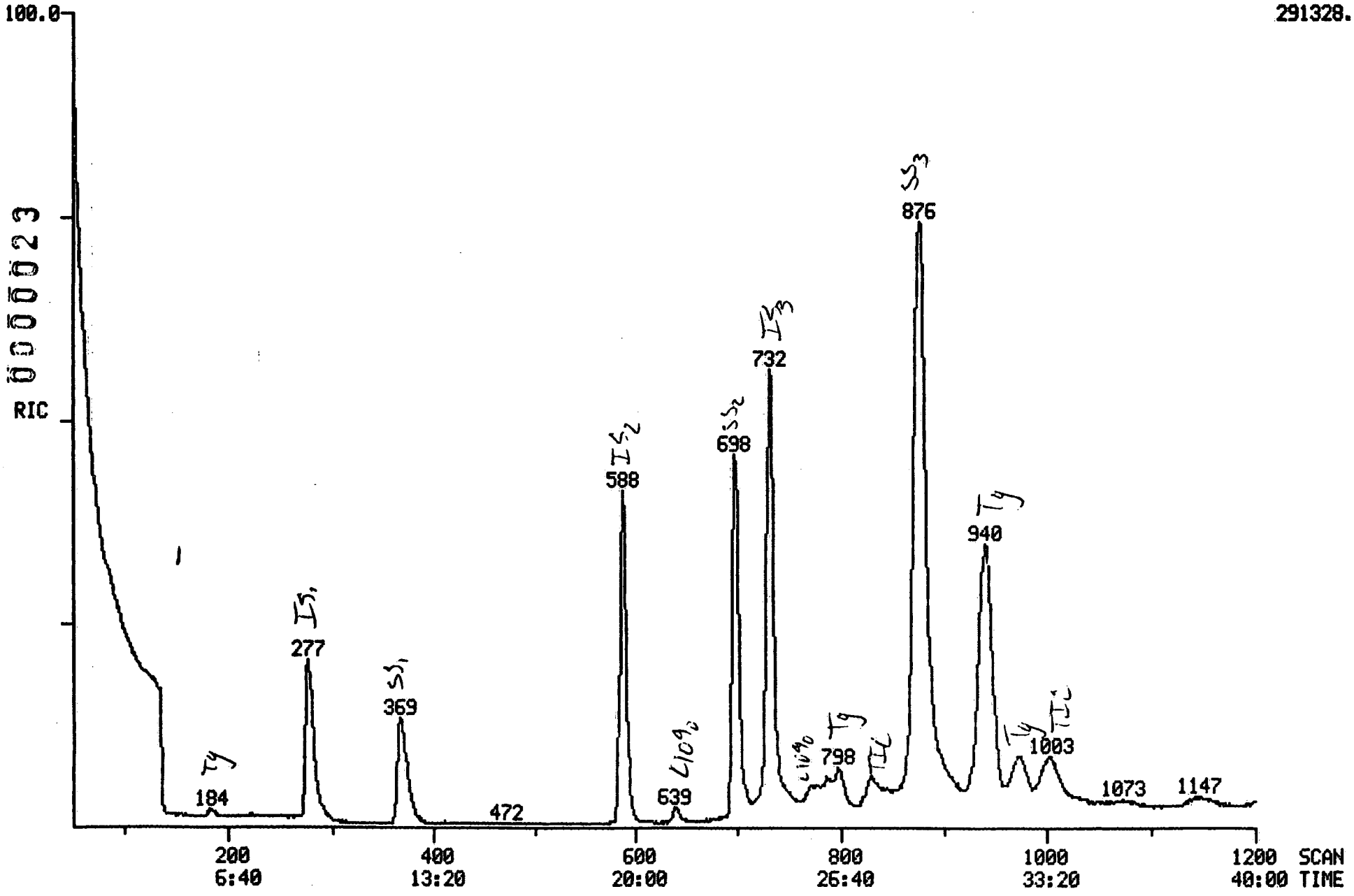
Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	27.67	5	J
2.	C4 BENZENE	33.43	8	J

ok

RIC DATA: W041304 #1 SCANS 50 TO 1200
04/13/92 12:05:00 CALI: W041304 #2
SAMPLE: 9204L922-001 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:17-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: W041304 0000024

Data: W041304.TI
04/13/92 12:05:00
Sample: 9204L922-001 WSI-LE CARPENTER 5.0 ML
Conds.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
Formula: W041301 Instrument: 1050W Weight: 0.015
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

0000025

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	277	9:14	1	1.000	A BB	43381.	50.000 UG/L	12.78
2	65	369	12:18	1	1.332	A BB	149047.	50.990 UG/L	13.03
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	184	6:08	1	0.664	A BB	2445.	2.427 UG/L	0.62
8	43	221	7:22	1	0.798	A BB	2680.	3.451 UG/L	0.88 NT
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	114	588	19:36	19	1.000	A BB	238280.	50.000 UG/L	12.78
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	117	732	24:24	33	1.000	A BB	226325.	50.000 UG/L	12.78
34	98	698	23:16	33	0.954	A BB	236591.	49.737 UG/L	12.71
35	95	876	29:12	33	1.197	A BB	239202.	50.101 UG/L	12.80
36	43	631	21:02	33	0.862	A BB	332.	0.224 UG/L	0.06
37	43	682	22:44	33	0.932	A BB	2115.	2.320 UG/L	0.59 NT
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	112	736	24:32	33	1.005	A VB	1720.	0.451 UG/L	0.12
42	106	799	26:38	33	1.092	A BB	9695.	5.587 UG/L	1.43
43	NOT FOUND								
44	106	940	31:20	33	1.284	A BB	123305.	65.400 UG/L	16.71
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	106	974	32:28	33	1.331	A BB	19545.	10.646 UG/L	2.72
49	NOT FOUND								
50	NOT FOUND								

76,046

4/29/92

Quantitation Report File: W043004TI 0000026

Data: W041304.TI
04/13/92 12:05:00
Sample: 9204L922-001 WSI-LE CARPENTER 5.0 ML
Conds.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
Formula: W041301 Instrument: 1050W Weight: 0.015
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name	
1	IS3 CHLOROBENZENE D5	INTERNAL STANDARD #3
2	UNKNOWN	
3	UNKNOWN	

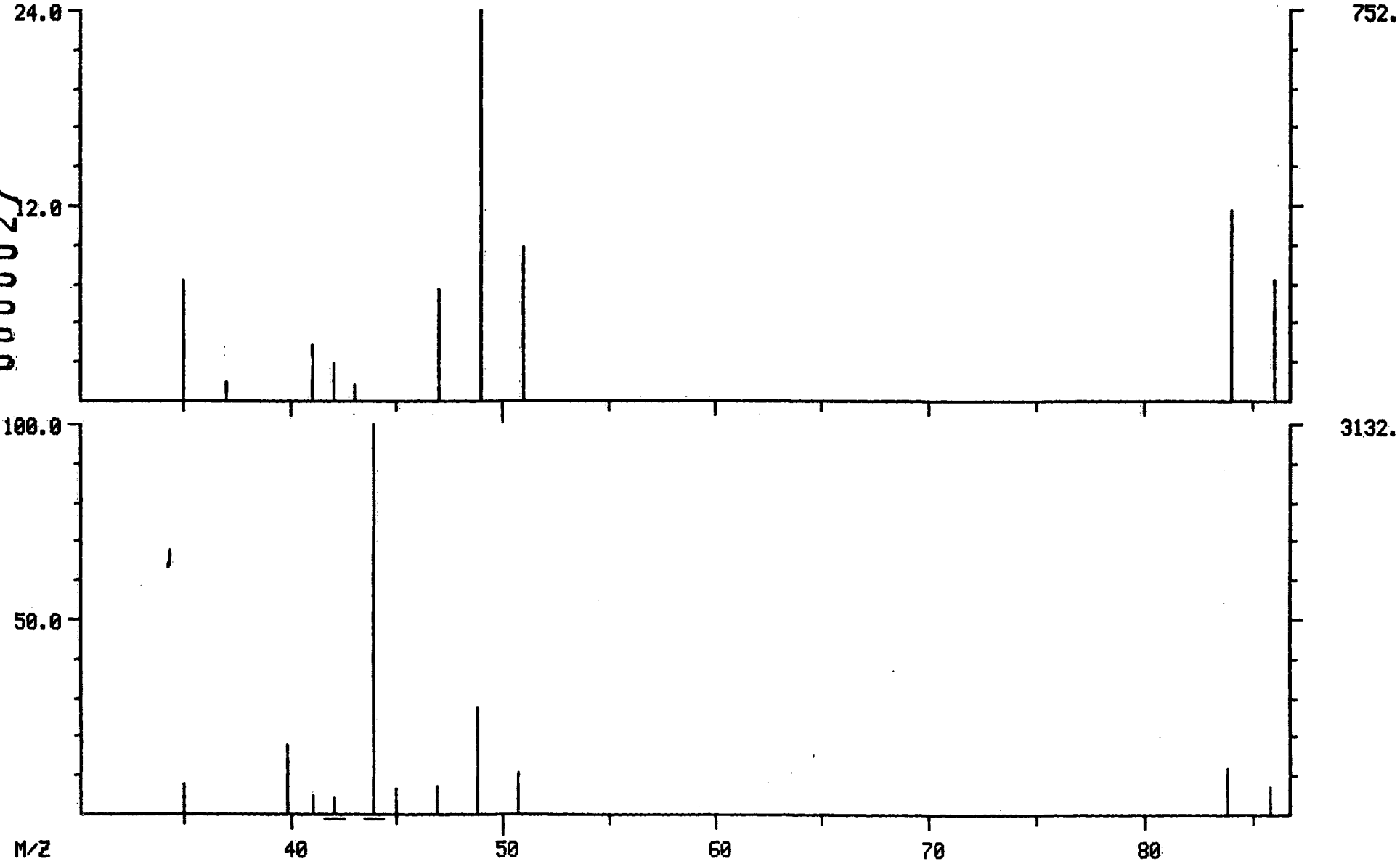
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	ug/L
1	RIC	732	24:24	1	1.000	A BB	1162570.	50.000	UG/L	64.88	
2	RIC	830	27:40	1	1.134	A BB	121264.	10.431		13.53	5.22
3	RIC	1003	33:26	1	1.370	A BB	193424.	16.638		21.59	8.32

JBS
4/30/92

DUAL MASS SPECTRUM
04/13/92 12:05:00 + 6:08
SAMPLE: 9204L922-001 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
GC TEMP: 72 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041304 #184
CALI: W041304 #2

BASE M/Z: 49/ 44
RIC: 2347./ 6439.

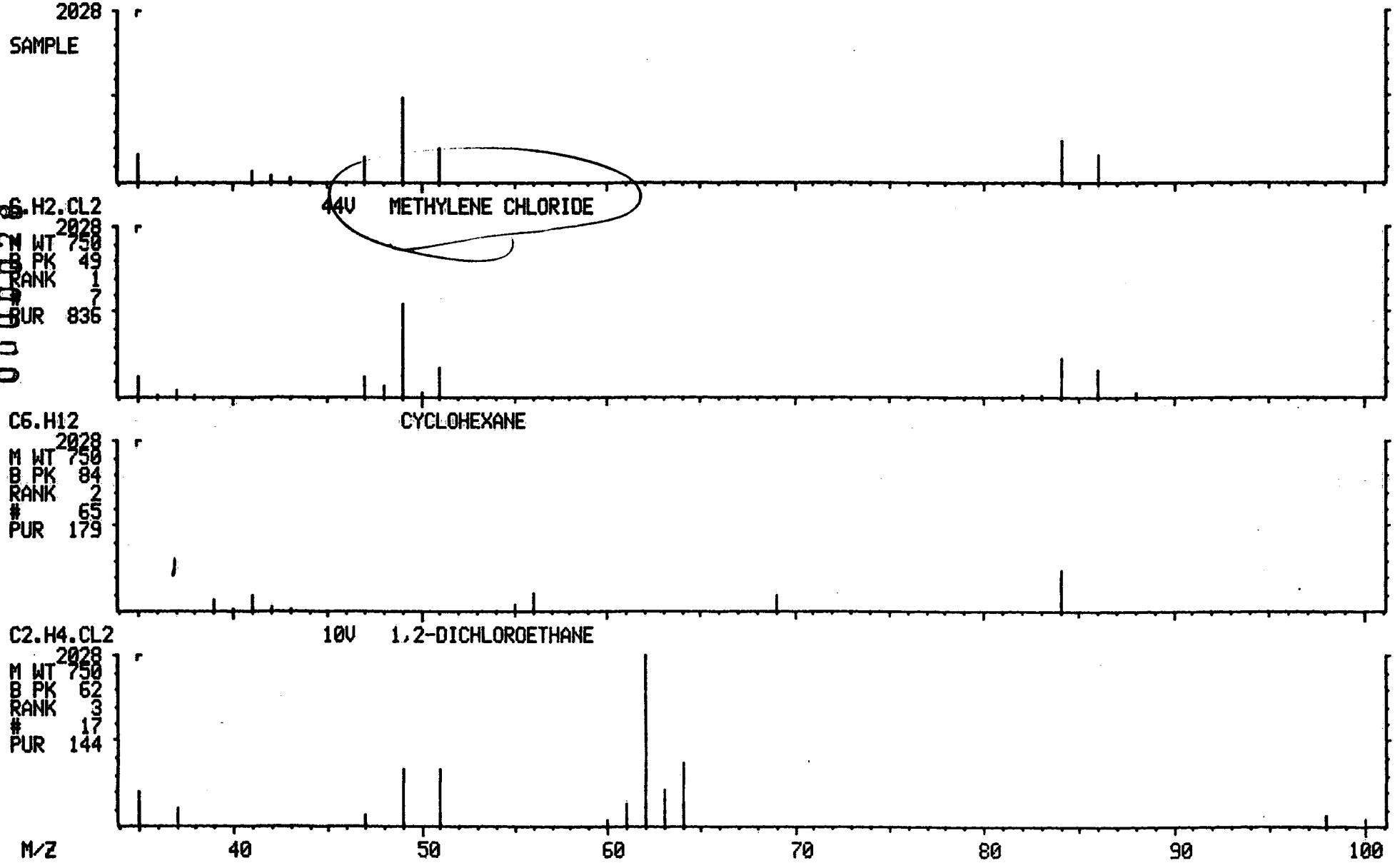


000027

LIBRARY SEARCH
04/13/92 12:05:00 + 6:08
SAMPLE: 9204L922-001 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041304 # 184
CALI: W041304 # 2

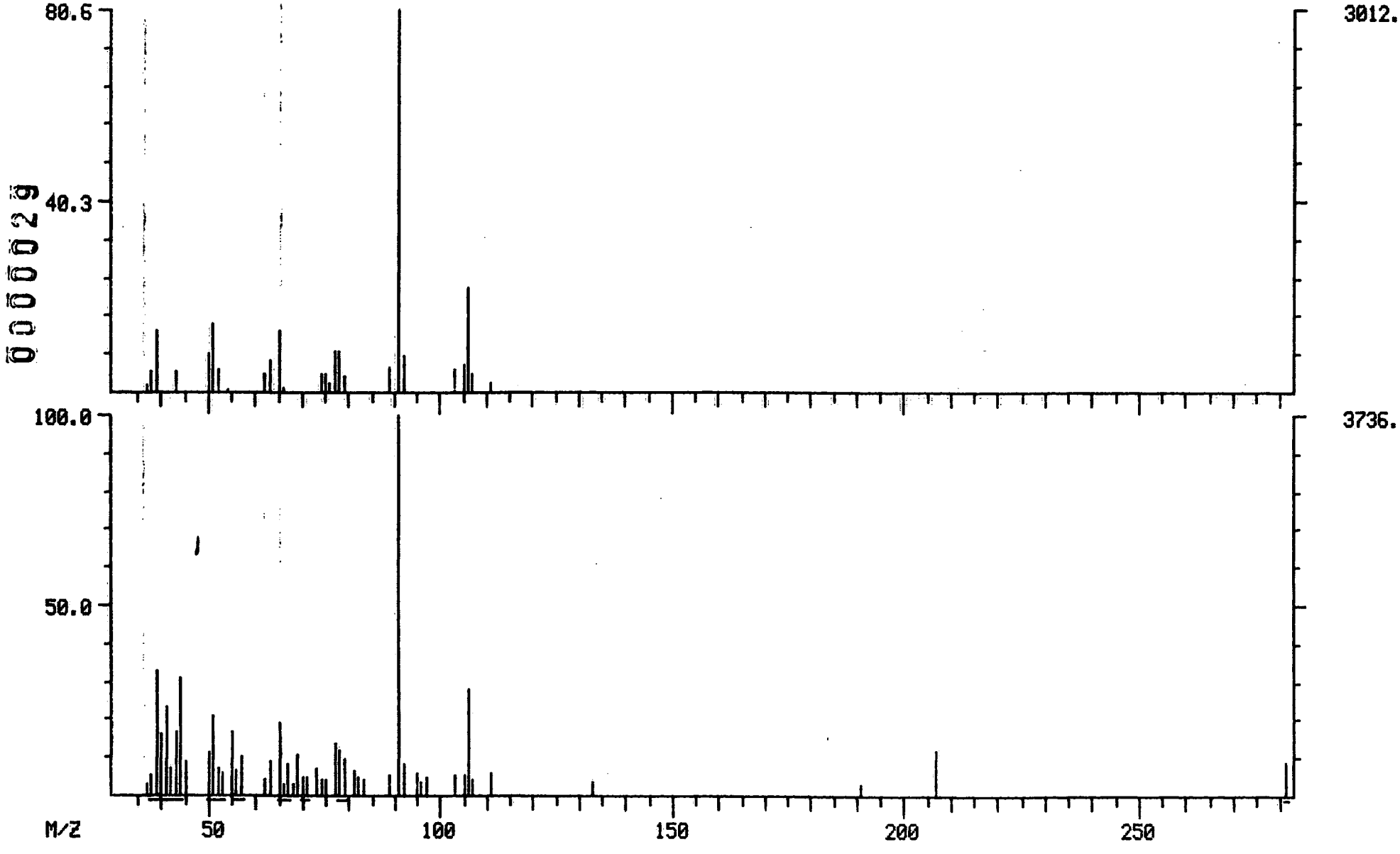
BASE M/Z: 49
RIC: 2347.



DUAL MASS SPECTRUM
04/13/92 12:05:00 + 26:38
SAMPLE: 9204L922-001 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
GC TEMP: 215 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041304 #799
CALI: W041304 #2

BASE M/Z: 91/ 91
RIC: 8879./ 20959.

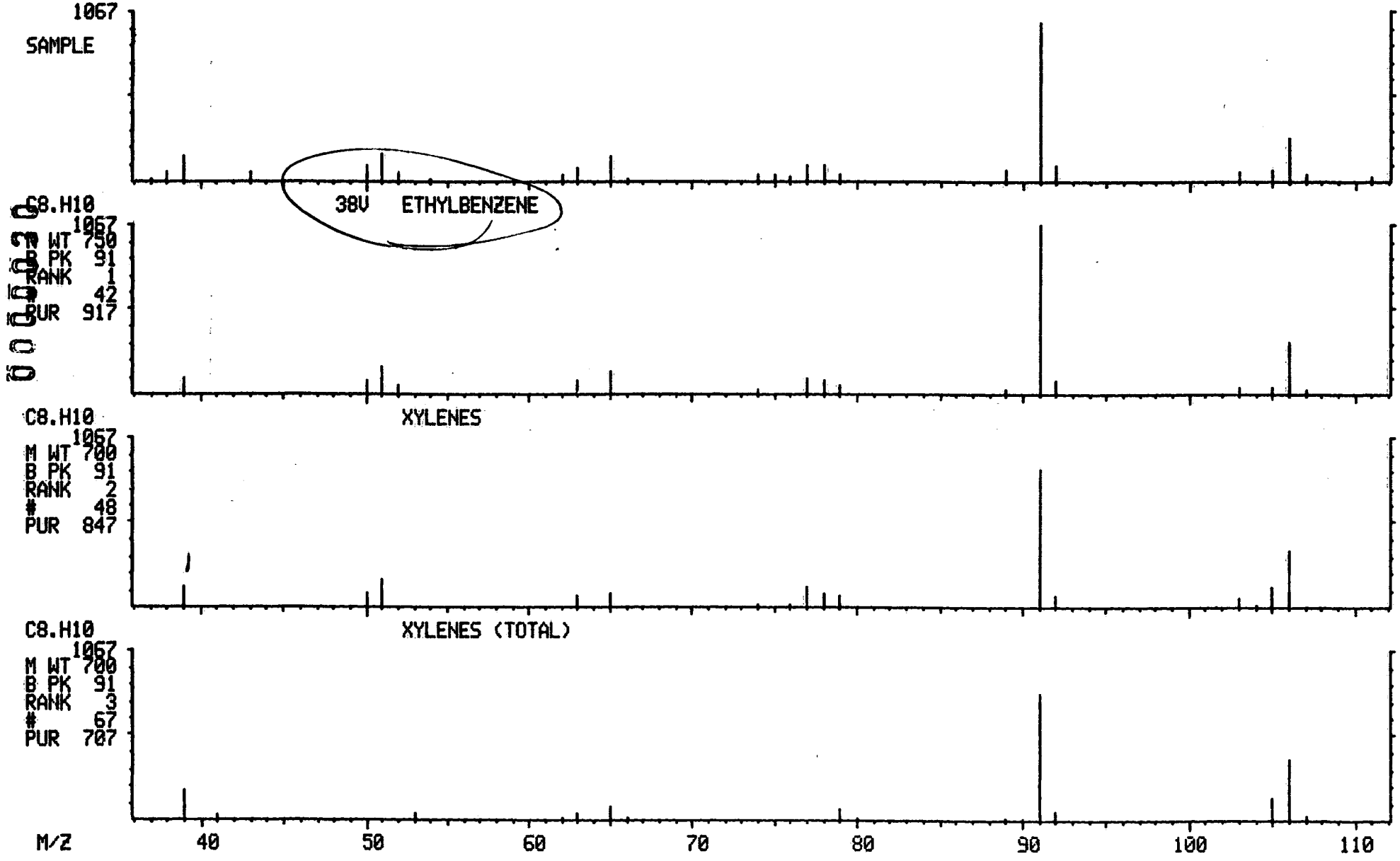


000029

LIBRARY SEARCH
04/13/92 12:05:00 + 26:38
SAMPLE: 9204L922-001 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041304 # 799
CALI: W041304 # 2

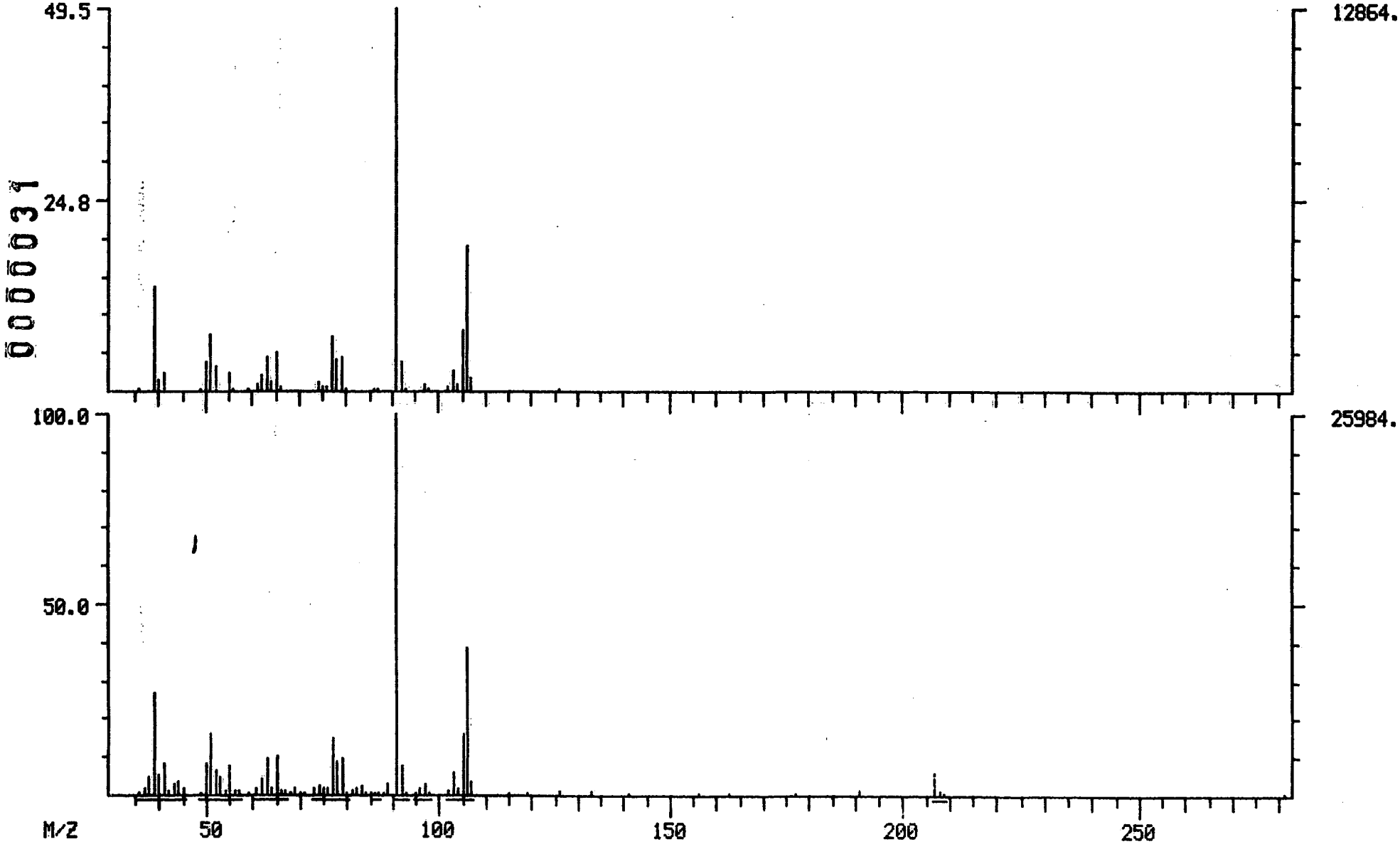
BASE M/Z: 91
RIC: 8879.



DUAL MASS SPECTRUM
04/13/92 12:05:00 + 31:20
SAMPLE: 9204L922-001 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
GC TEMP: 215 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041304 #940
CALI: W041304 #2

BASE M/Z: 91/ 91
RIC: 40639./ 101503.

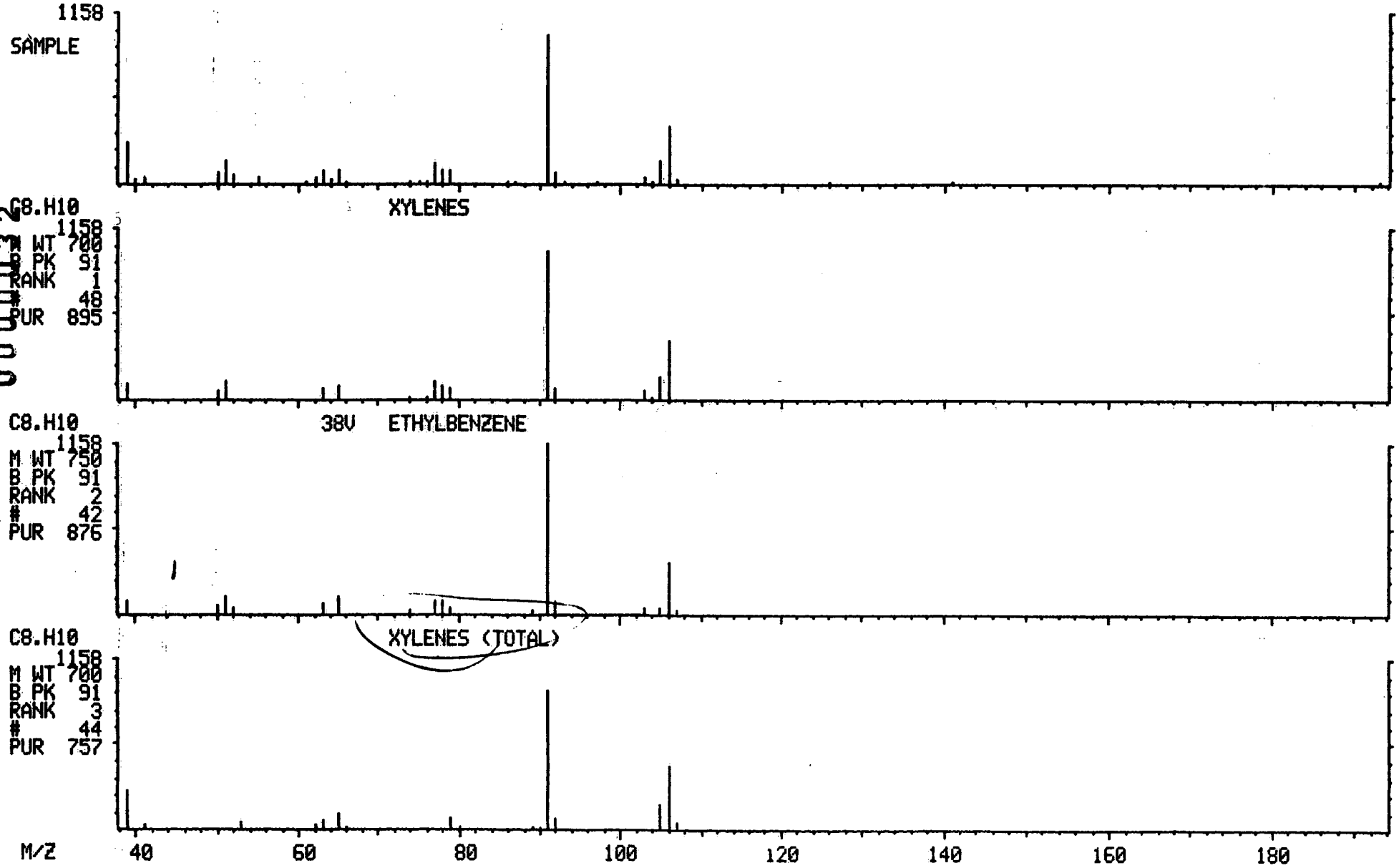


000031

LIBRARY SEARCH
04/13/92 12:05:00 + 31:20
SAMPLE: 9204L922-001 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041304 # 940
CALI: W041304 # 2

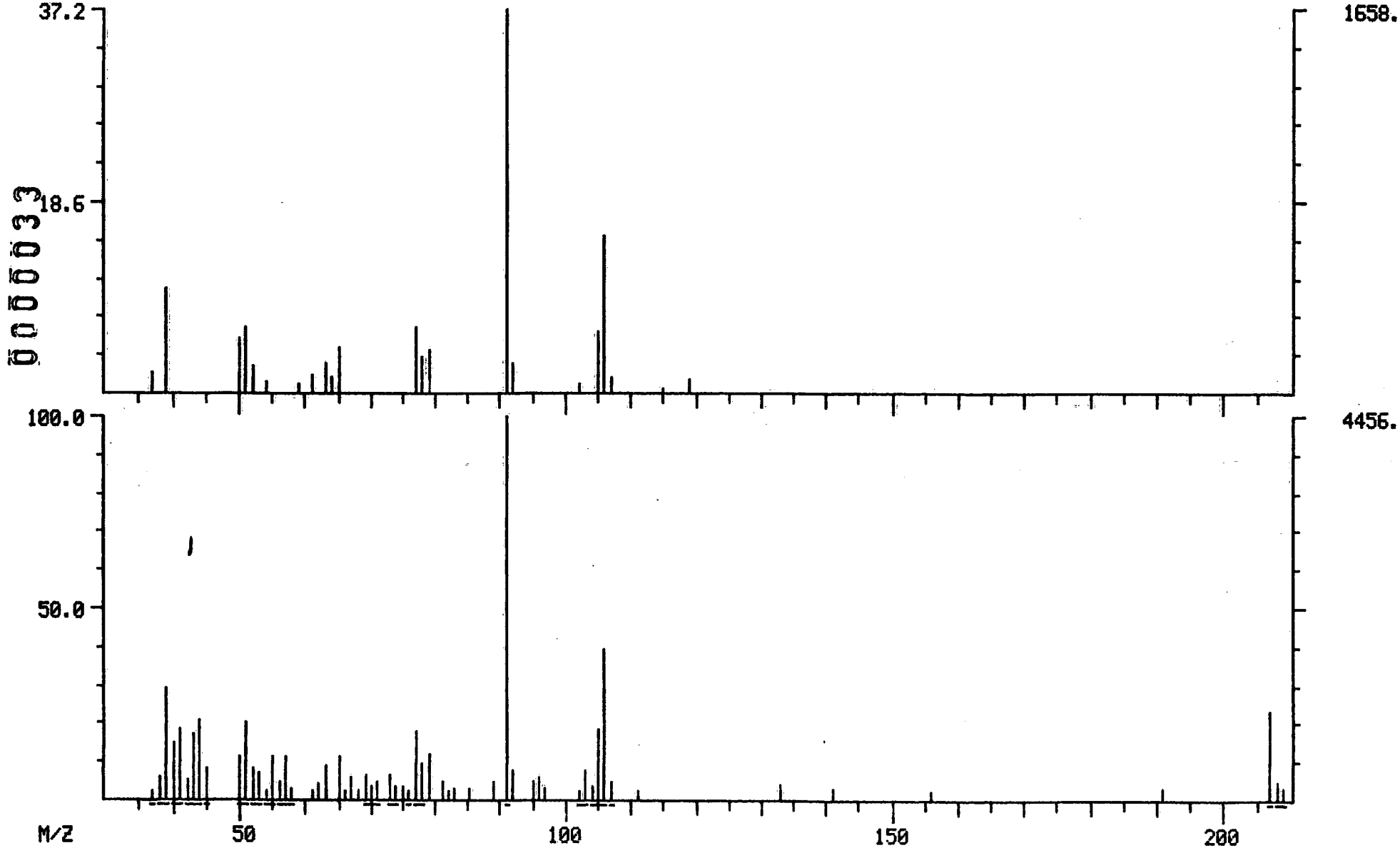
BASE M/Z: 91
RIC: 40063.



DUAL MASS SPECTRUM
04/13/92 12:05:00 + 32:28
SAMPLE: 9204L922-001 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
GC TEMP: 215 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041304 #974
CALI: W041304 #2

BASE M/Z: 91/ 91
RIC: 5335./ 25631.

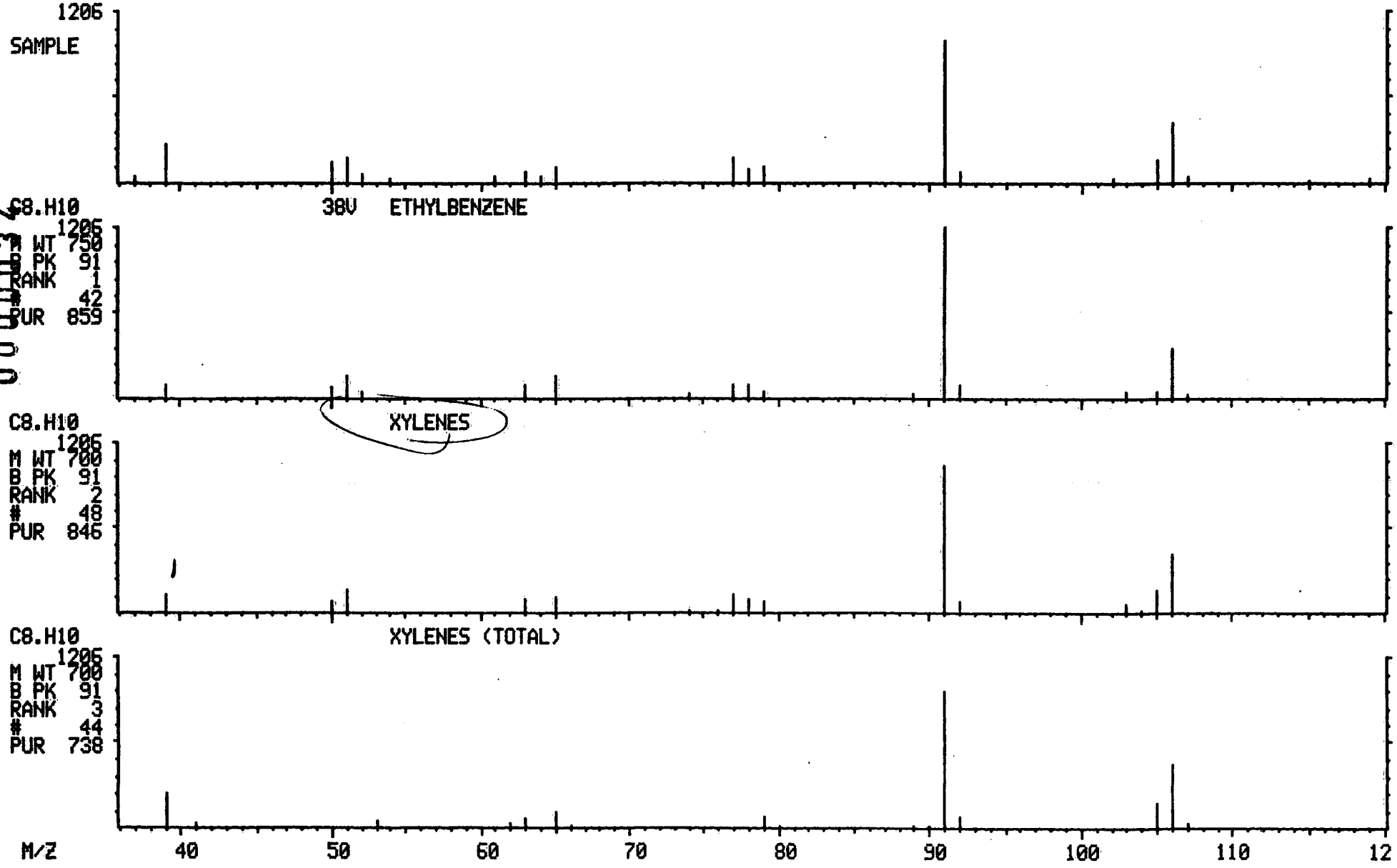


000033

LIBRARY SEARCH
04/13/92 12:05:00 + 32:28
SAMPLE: 9204L922-001 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041304 # 974
CALI: W041304 # 2

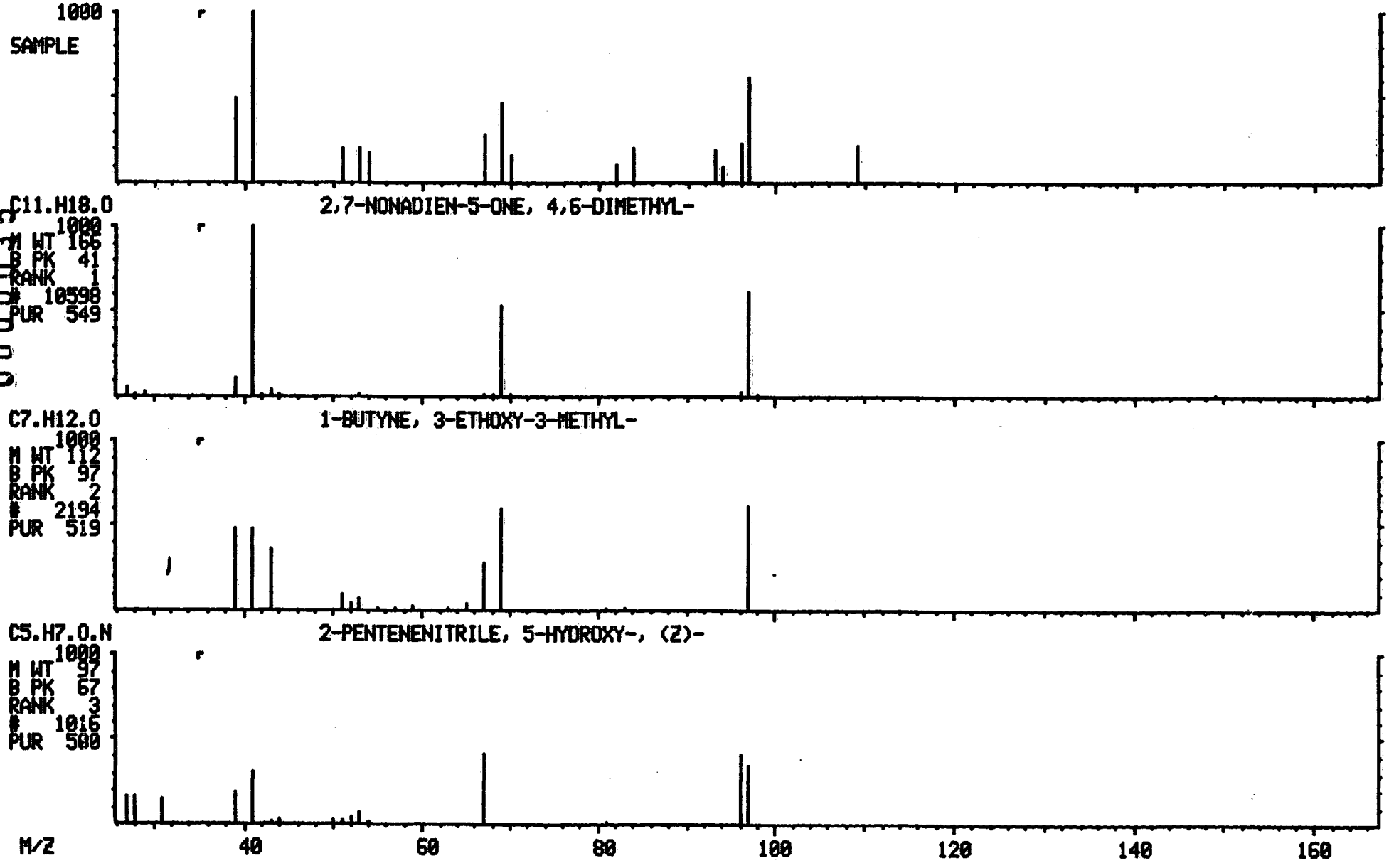
BASE M/Z: 91
RIC: 5287.



LIBRARY SEARCH
04/13/92 12:05:00 + 27:40
SAMPLE: 9204L922-001 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041304 # 830
CALI: W041304 # 2

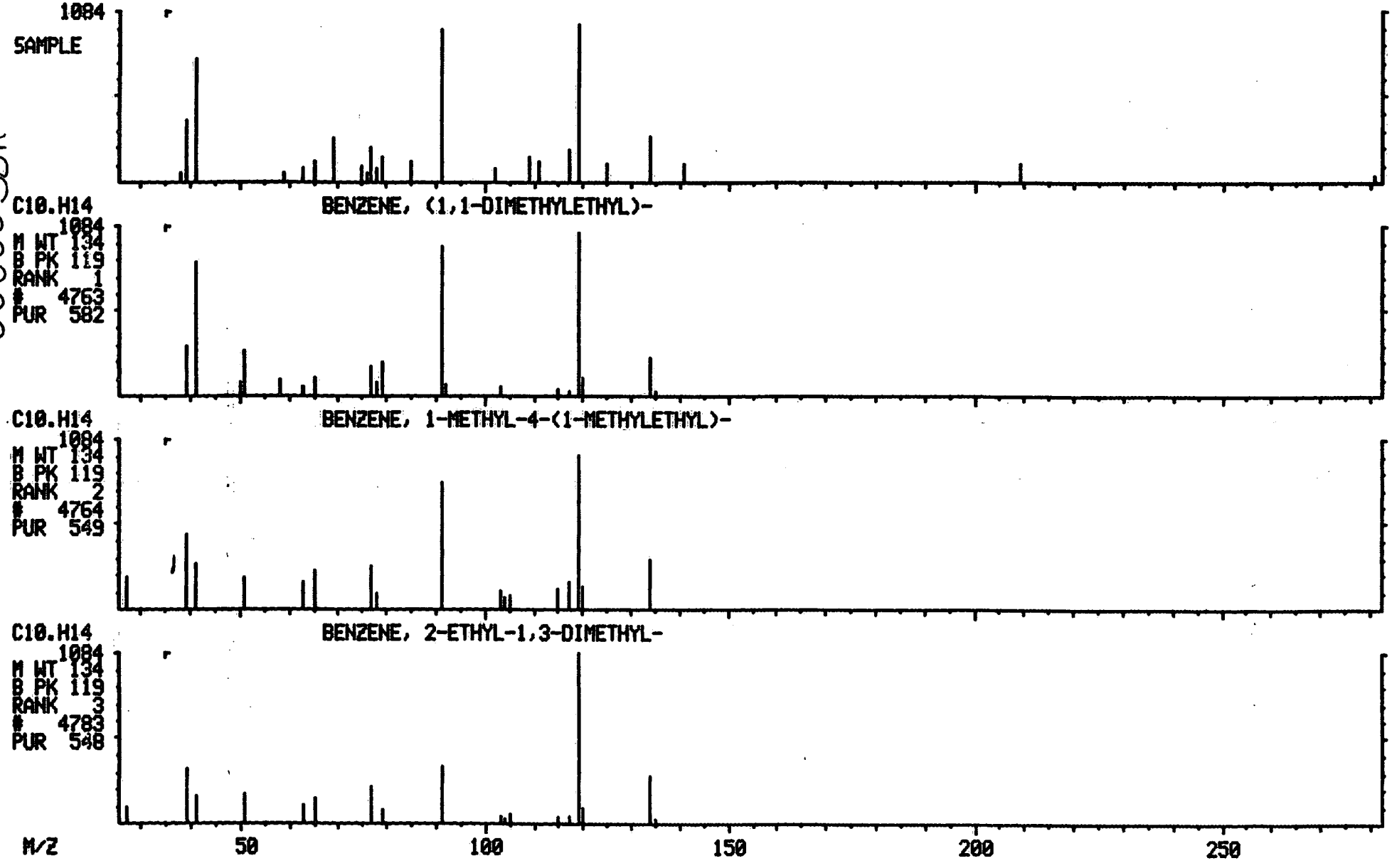
BASE M/Z: 41
RIC: 2807.



LIBRARY SEARCH
04/13/92 12:05:00 + 33:26
SAMPLE: 9204L922-001 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041304 #1003
CALI: W041304 # 2

BASE M/Z: 119
RIC: 3363.



00000354

1A

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-3

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9204L922-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041013

Level: (low/med) LOW

Date Received: 04/08/92

% Moisture: not dec. _____

Date Analyzed: 04/10/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	2	J
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	7	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	1200	E
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)		E

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-3

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9204L922-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041013

Level: (low/med) LOW

Date Received: 04/08/92

% Moisture: not dec. _____

Date Analyzed: 04/10/92

Column: (pack/cap) PACK

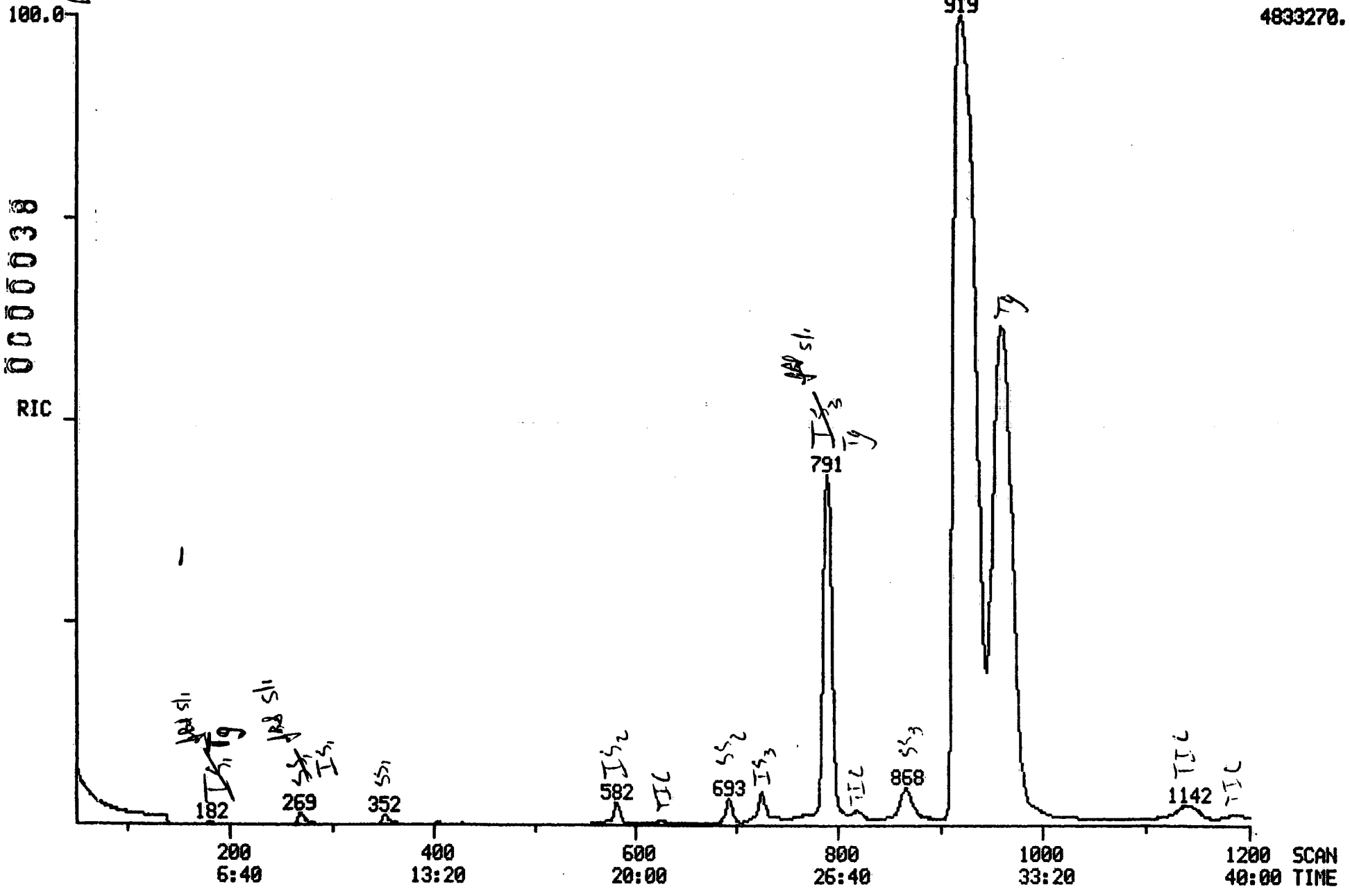
Dilution Factor: 1.00

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	METHYLCYCLOPENTENE	20.87	10	J
2.	UNKNOWN	27.33	10	J
3.	C3 BENZENE	38.07	50	J
4.	C3 BENZENE	39.50	9	J

RIC DATA: W041013 #1 SCANS 50 TO 1200
04/10/92 18:40:00 CALI: W041013 #2
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: W041013 0000039

Data: W041013.TI
04/10/92 18:40:00
Sample: 9204L922-002 WSI-LE CARPENTER 5.0 ML
Conds.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
Formula: W041001 Instrument: 1050W Weight: 0.014
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

0000040

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	269	8:58	T	1.000	A BB	45240.	50.000	UG/L	0.48
2	65	352	11:44	1	1.309	A BB	158829.	50.150	UG/L	0.48
3	NOT FOUND									
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	84	182	6:04	1	0.677	A BB	7346.	6.582	UG/L	0.06
8	43	214	7:08	1	0.796	A BB	6378.	7.268	UG/L	0.07 NT
9	NOT FOUND									
10	NOT FOUND									
11	101	241	8:02	1	0.896	A BB	783.	0.187	UG/L	0.00
12	NOT FOUND									
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
17	NOT FOUND									
18	114	582	19:24	18	1.000	A BB	246667.	50.000	UG/L	0.48
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	78	506	16:52	18	0.869	A BB	6946.	1.929	UG/L	0.02
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	117	726	24:12	33	1.000	A BB	229798.	50.000	UG/L	0.48
34	98	693	23:06	33	0.955	A BB	248479.	50.968	UG/L	0.49
35	95	867	28:54	33	1.194	A BB	267611.	54.038	UG/L	0.52
36	43	631	21:02	33	0.869	A BB	258.	0.173	UG/L	0.00
37	NOT FOUND									
38	NOT FOUND									
39	NOT FOUND									
40	92	699	23:18	33	0.963	A BB	18279.	7.191	UG/L	0.07
41	NOT FOUND									
42	106	790	26:20	33	1.088	A BB	2139510.	1222.300	UG/L	11.80 E
43	104	918	30:36	33	1.264	A BB	521828.	171.863	UG/L X	1.66 X NT
44	106	917	30:34	33	1.263	A BB	10718500.	5527.840	UG/L	53.36
45	NOT FOUND									
46	NOT FOUND									
47	NOT FOUND									
48	106	959	31:58	33	1.321	A BB	5934330.	3109.960	UG/L	30.02 E
49	NOT FOUND									
50	NOT FOUND									

8637.

4/30/92

Quantitation Report File: W041013TI 0000041

Data: W041013.TI
04/10/92 18:40:00
Sample: 9204L922-002 WSI-LE CARPENTER 5.0 ML
Conds.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
Formula: W041001 Instrument: 1050W Weight: 0.014
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name	
1	IS2 1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
2	UNKNOWN	
3	IS3 CHLOROBENZENE D5	INTERNAL STANDARD #3
4	UNKNOWN	
5	UNKNOWN	
6	UNKNOWN	

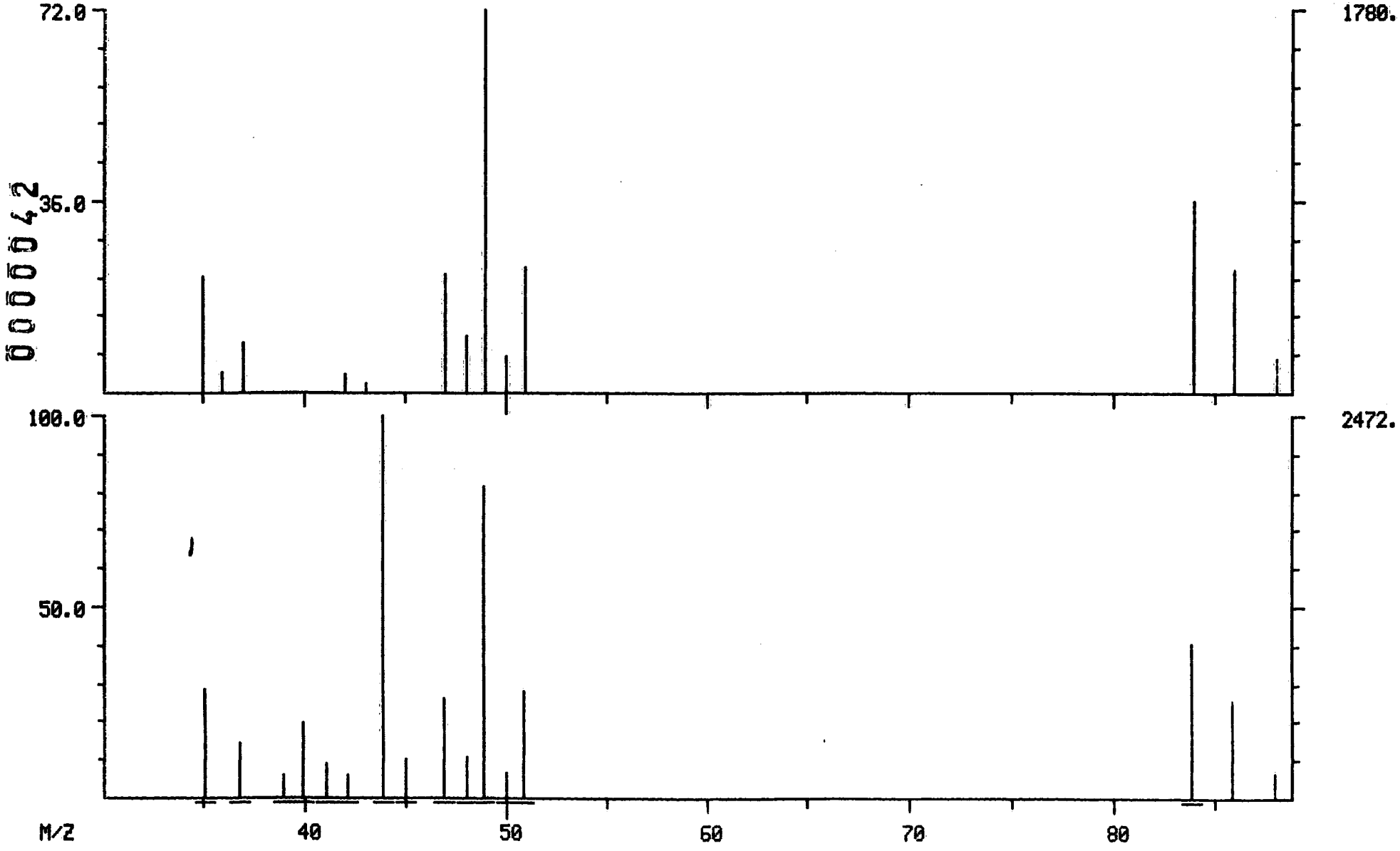
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	ug/L
1	RIC	582	19:24	1	1.000	A BB	923704.	50.000	UG/L	20.65	
2	RIC	626	20:52	3	0.862	A BB	179583.	12.754		5.27	9.72
3	RIC	726	24:12	3	1.000	A BV	1408060.	50.000	UG/L	20.65	
4	RIC	820	27:20	3	1.129	A BB	290752.	20.649		8.53	10.32
5	RIC	1142	38:04	3	1.573	A BB	1287100.	91.409		37.76	45.70
6	RIC	1185	39:30	3	1.632	A BB	243359.	17.283		7.14	8.64

JBL 5/1/92

DUAL MASS SPECTRUM
04/10/92 18:40:00 + 6:04
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
GC TEMP: 72 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041013 #182
CALI: W041013 #2

BASE M/Z: 49/ 44
RIC: 5967./ 10335.

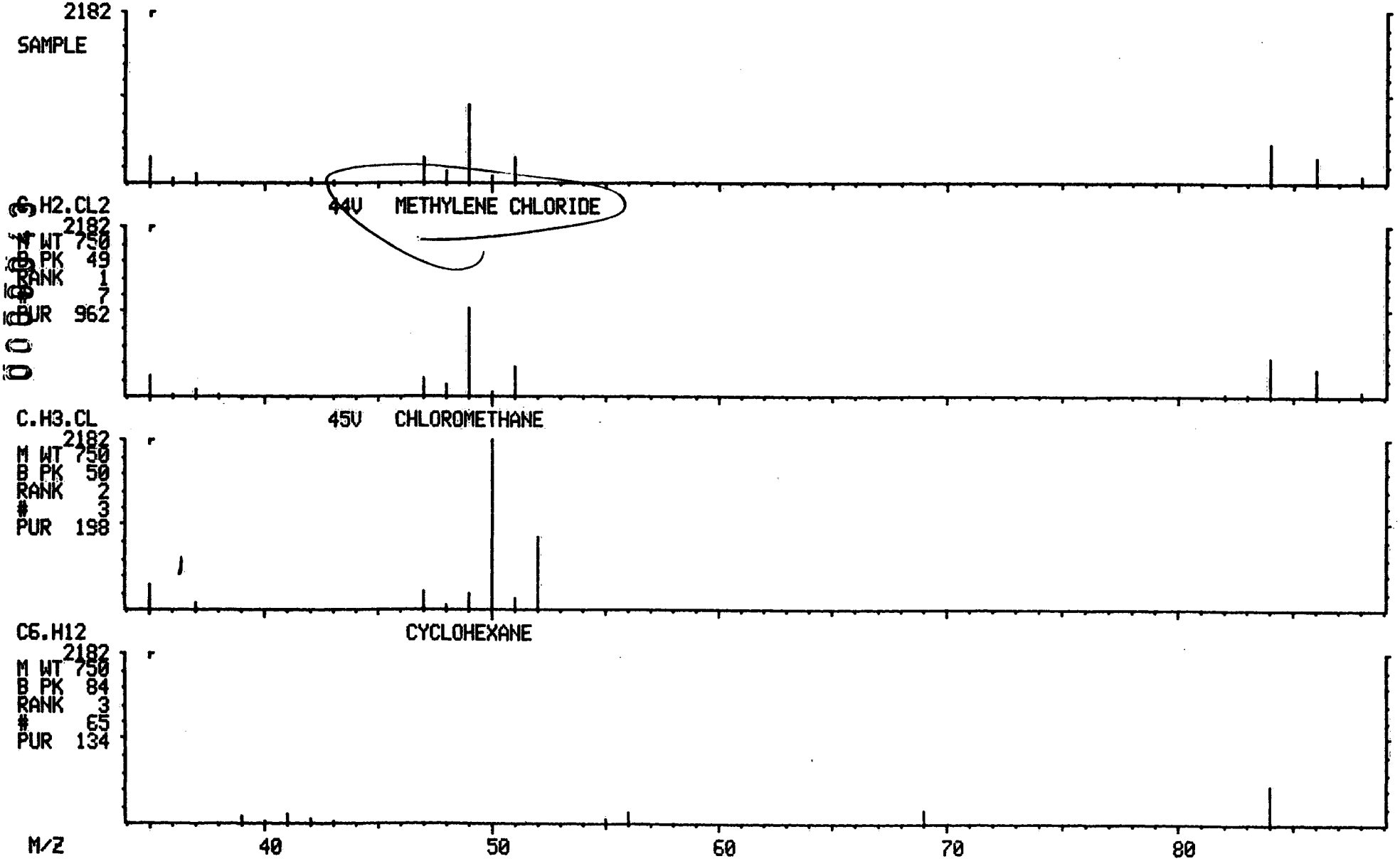


000042

LIBRARY SEARCH
04/10/92 18:40:00 + 6:04
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041013 # 182
CALI: W041013 # 2

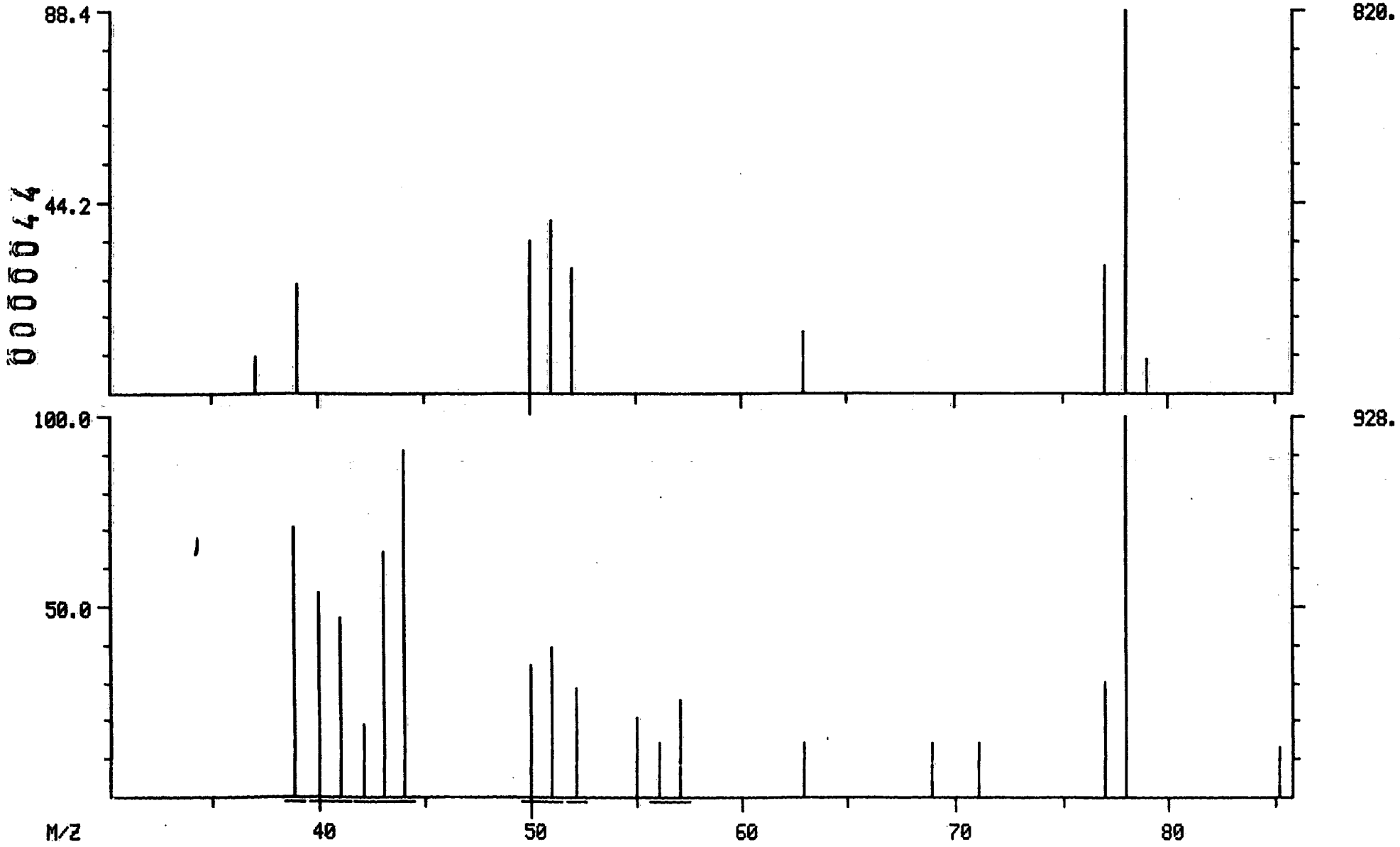
BASE M/Z: 49
RIC: 5967.



DUAL MASS SPECTRUM
04/10/92 18:40:00 + 16:52
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
GC TEMP: 156 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041013 #506
CALI: W041013 #2

BASE M/Z: 78/ 78
RIC: 2583./ 6463.

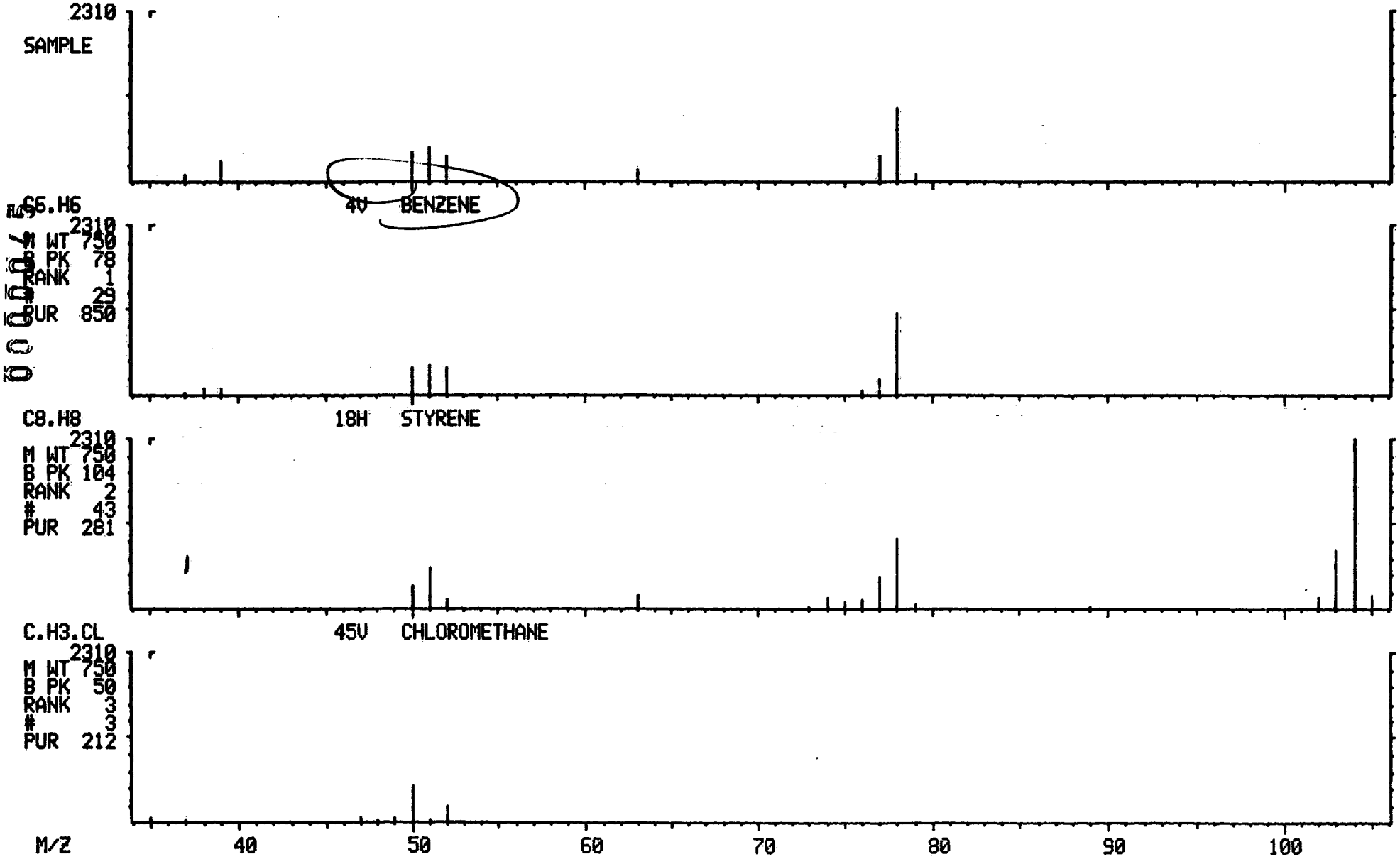


000044

LIBRARY SEARCH
04/10/92 18:40:00 + 16:52
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041013 # 506
CALI: W041013 # 2

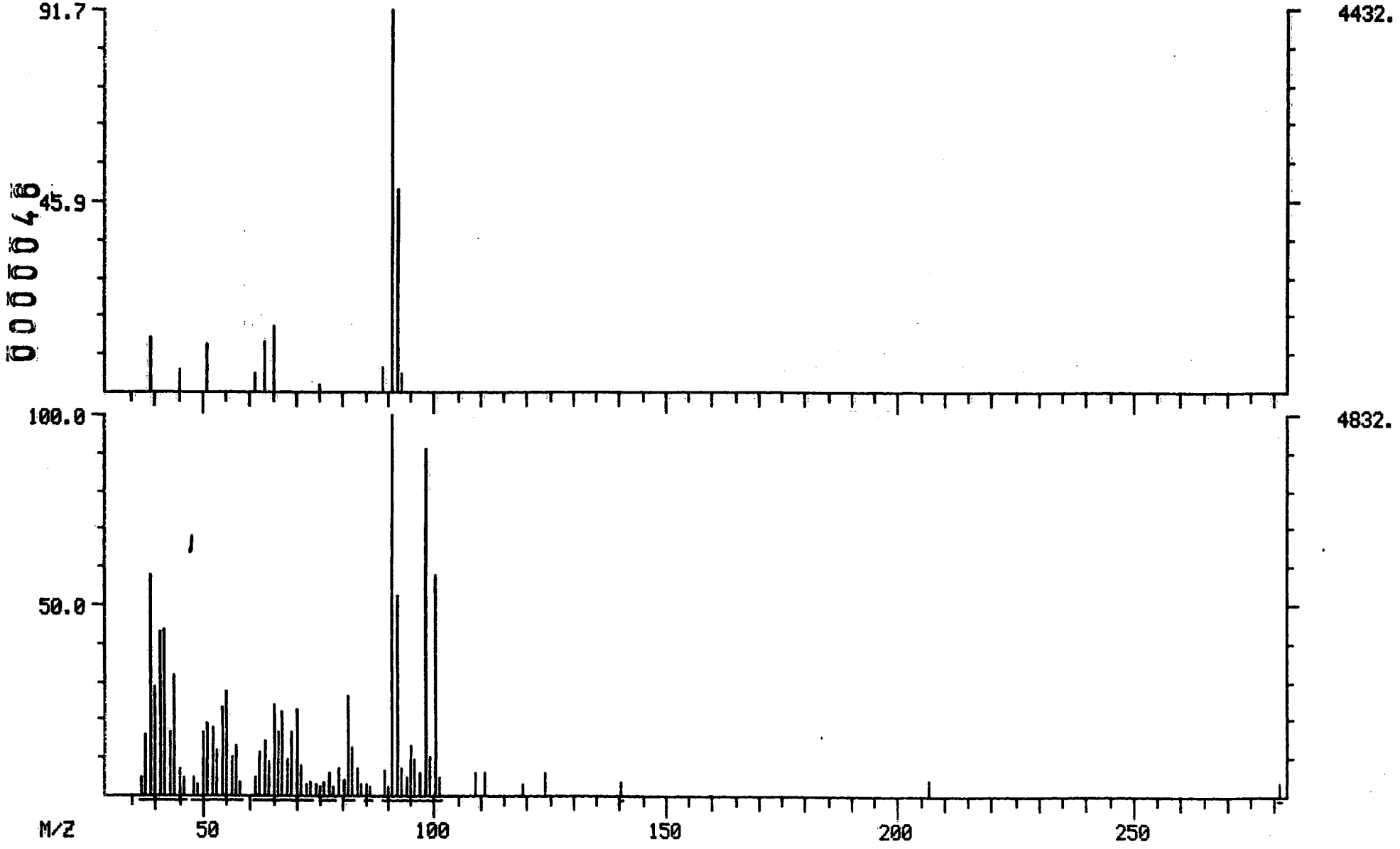
BASE M/Z: 78
RIC: 2583.



DUAL MASS SPECTRUM
04/10/92 18:40:00 + 23:18
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
GC TEMP: 206 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041013 #699
CALI: W041013 #2

BASE M/Z: 91/ 91
RIC: 10415./ 50751.

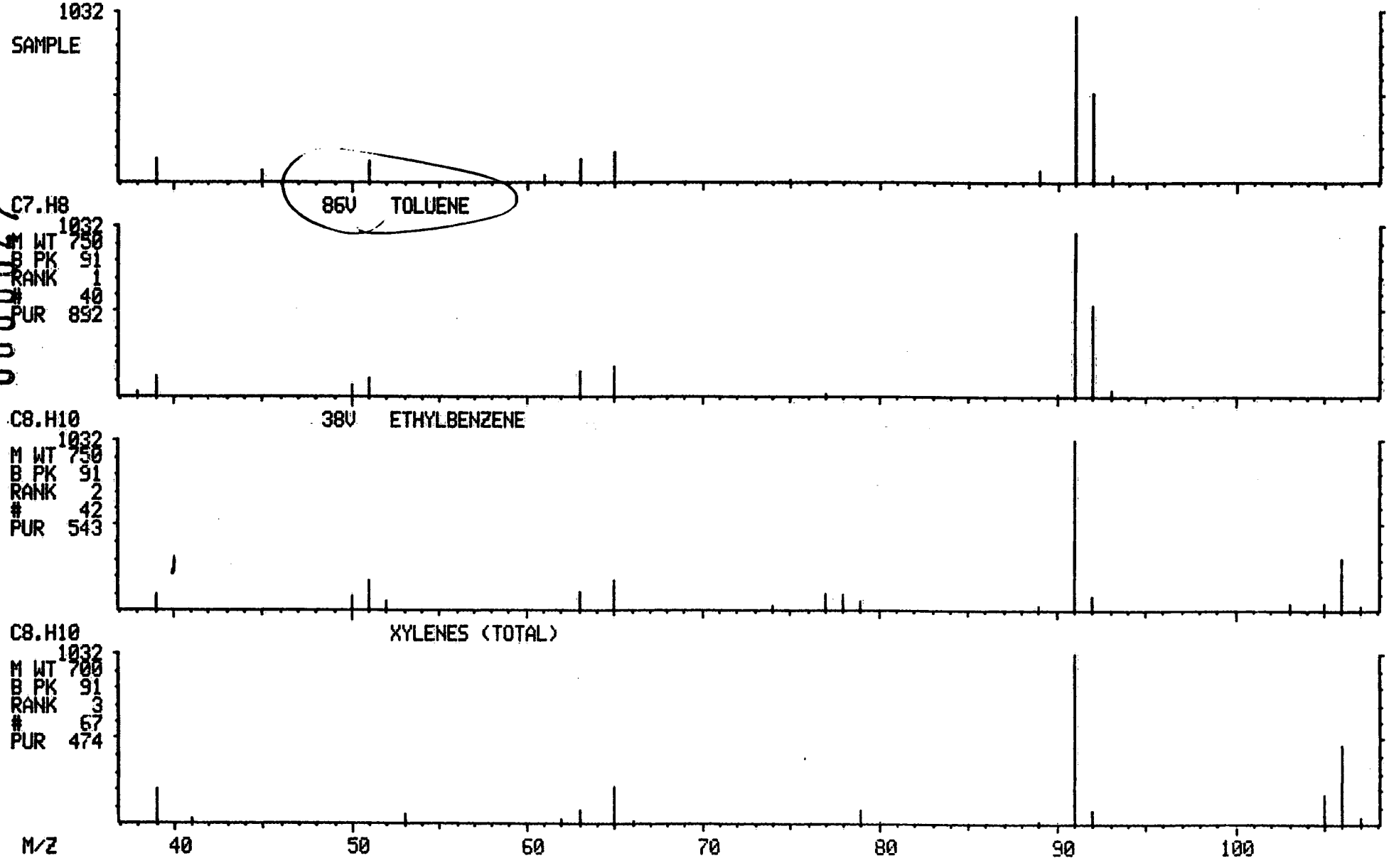


000046

LIBRARY SEARCH
04/10/92 18:40:00 + 23:18
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041013 # 699
CALI: W041013 # 2

BASE M/Z: 91
RIC: 10415.

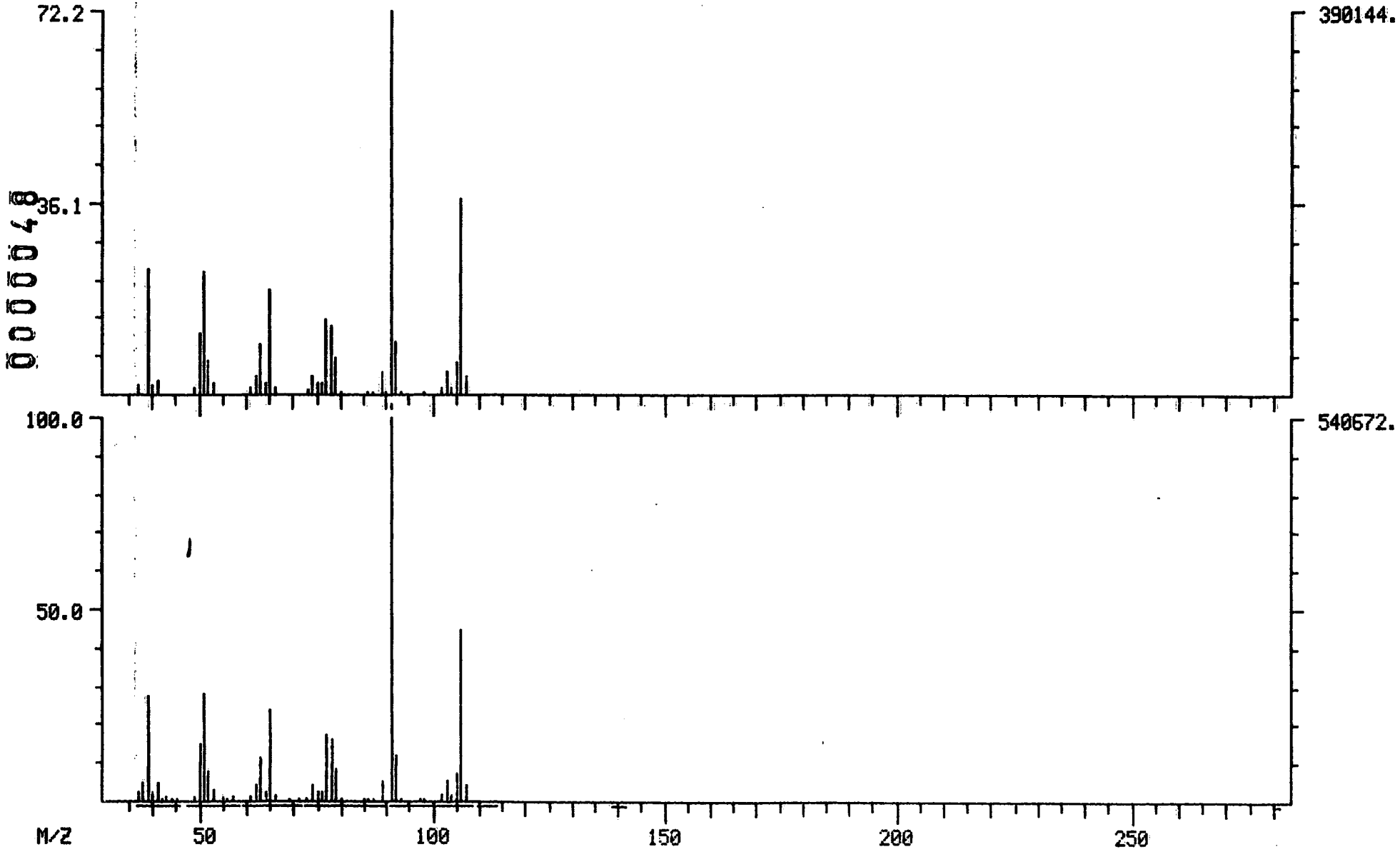


000047

DUAL MASS SPECTRUM
04/10/92 18:40:00 + 26:20
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
GC TEMP: 214 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041013 #790
CALI: W041013 #2

BASE M/Z: 91/ 91
RIC: 1601530./ 2074620.

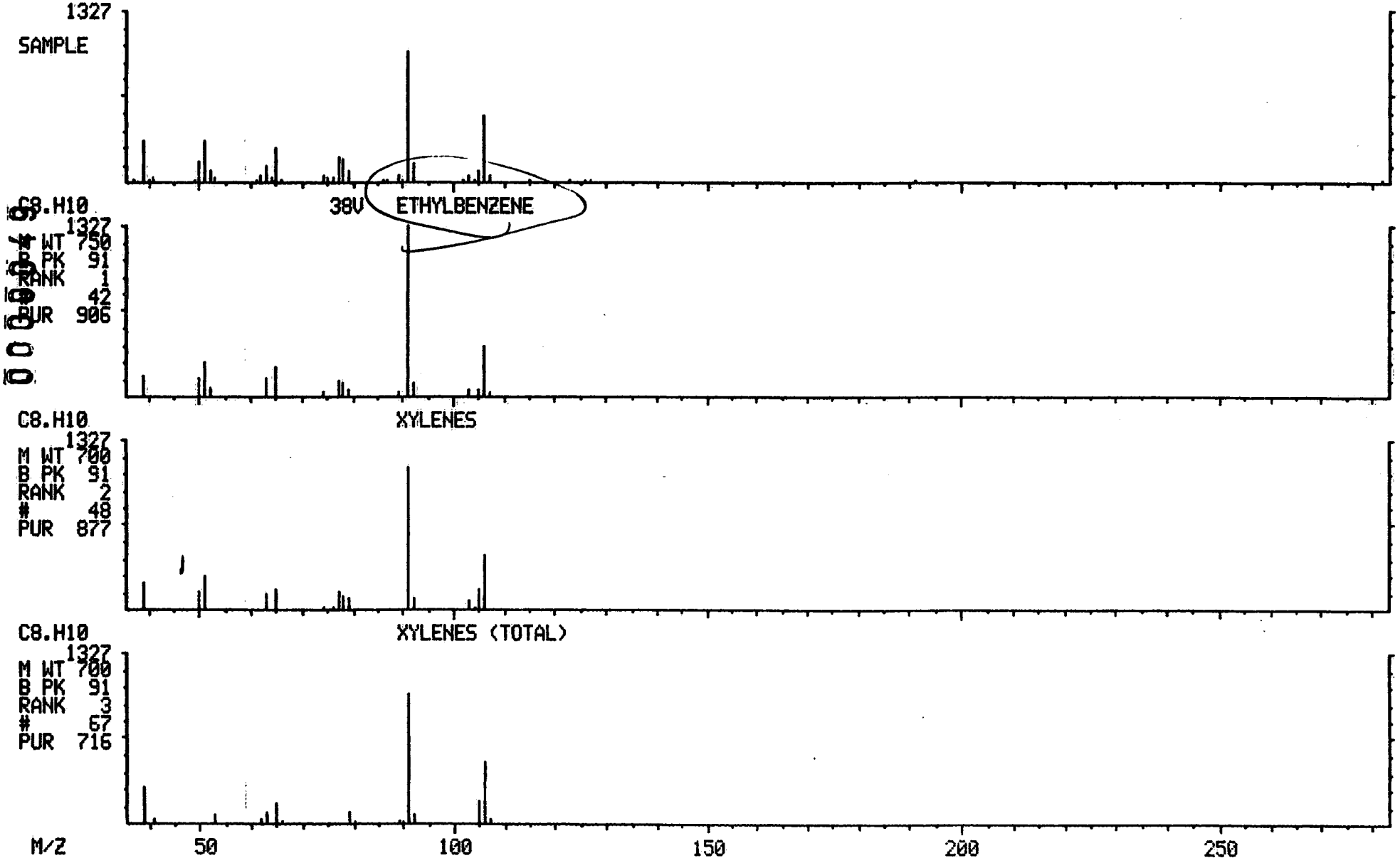


000004B

LIBRARY SEARCH
04/10/92 18:40:00 + 26:20
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041013 # 790
CALI: W041013 # 2

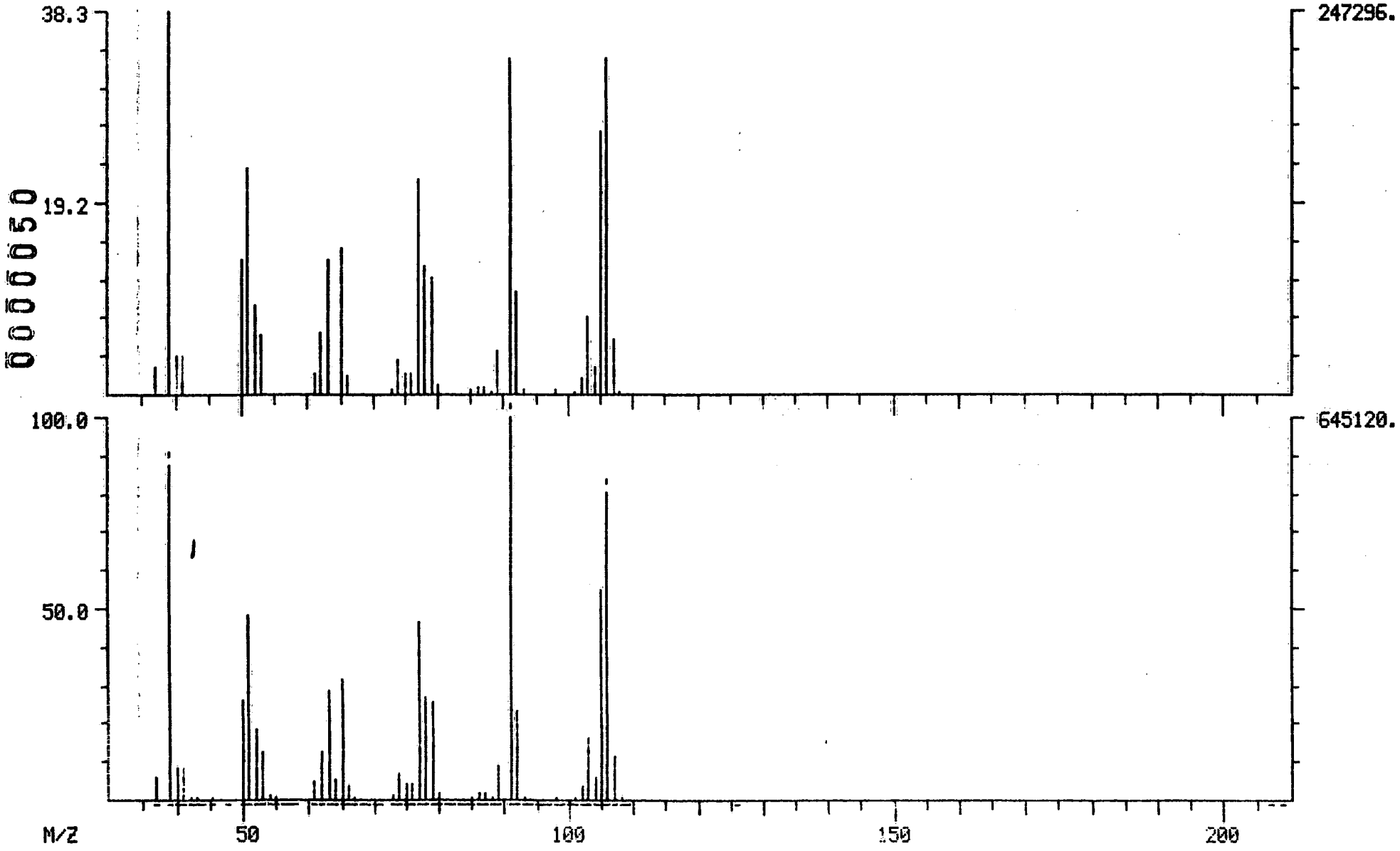
BASE M/Z: 91
RIC: 1585150.



DUAL MASS SPECTRUM
04/10/92 18:40:00 + 30:34
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
GC TEMP: 213 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041013 #917
CALI: W041013 #2

BASE M/Z: 39/ 91
RIC: 2068470./ 4743160.

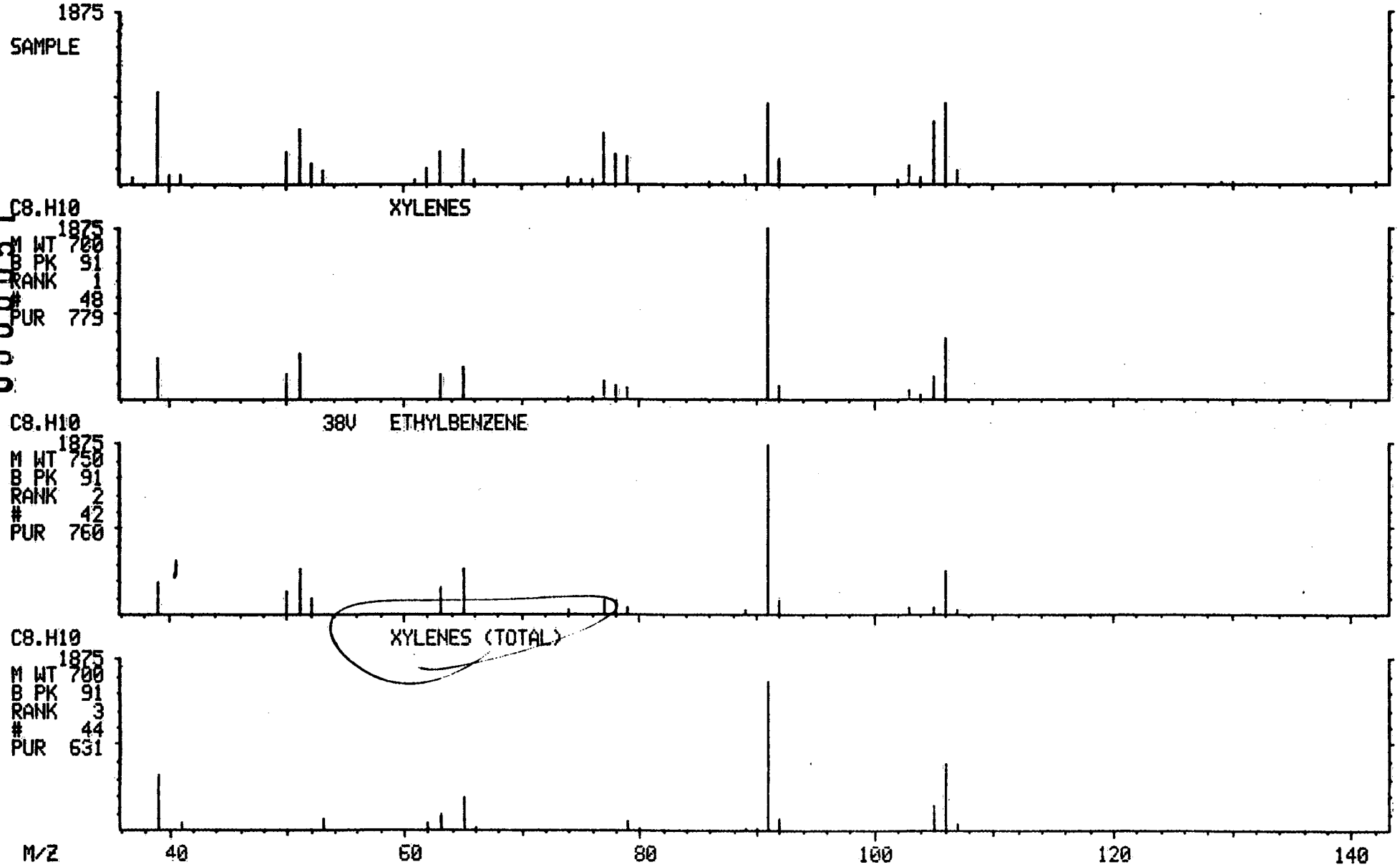


000050

LIBRARY SEARCH
04/10/92 18:40:00 + 30:34
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041013 # 917
CALI: W041013 # 2

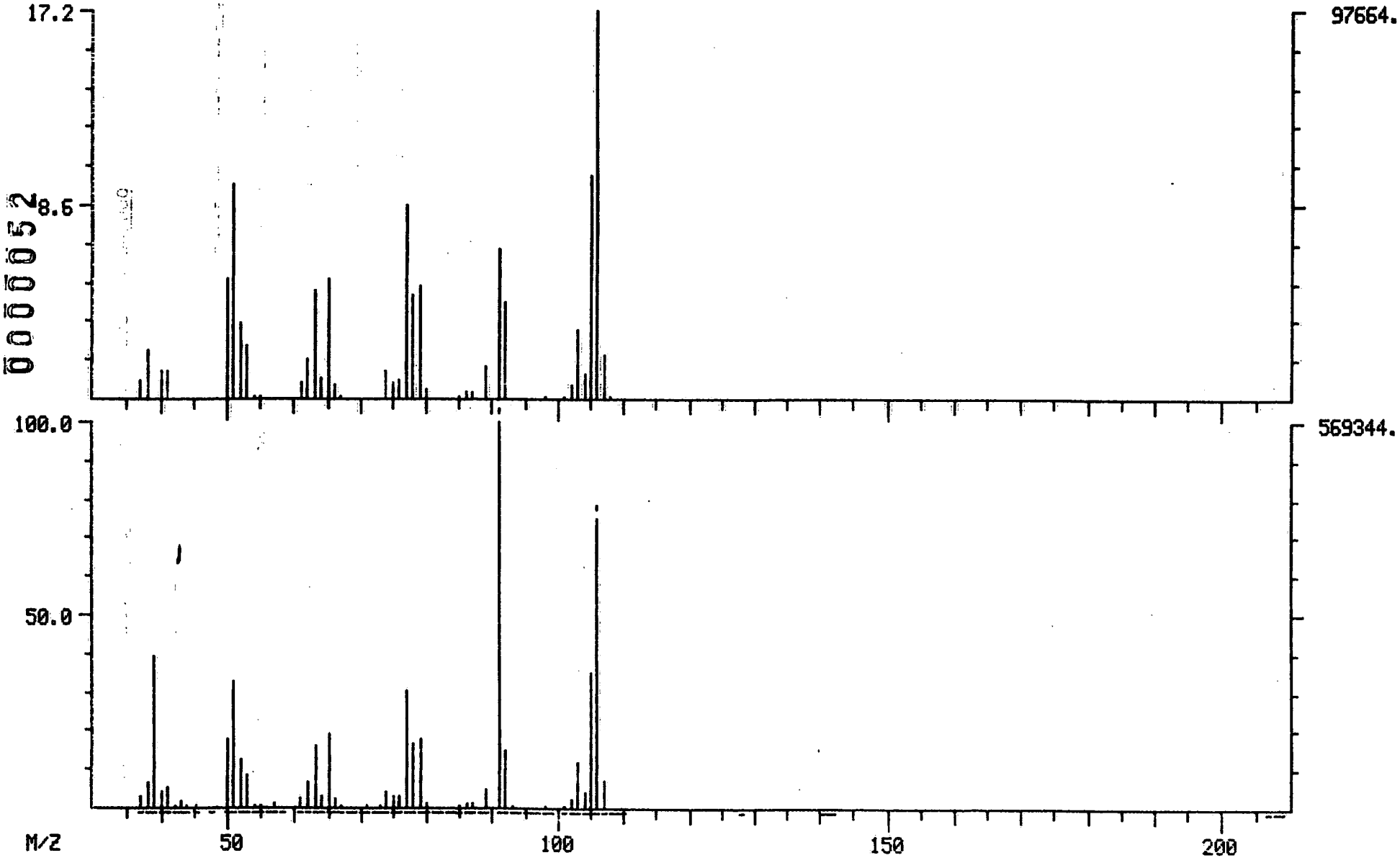
BASE M/Z: 39
RIC: 2045950.



DUAL MASS SPECTRUM
04/10/92 18:40:00 + 31:58
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
GC TEMP: 213 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041013 #959
CALI: W041013 #2

BASE M/Z: 106/ 91
RIC: 620543./ 2977790.

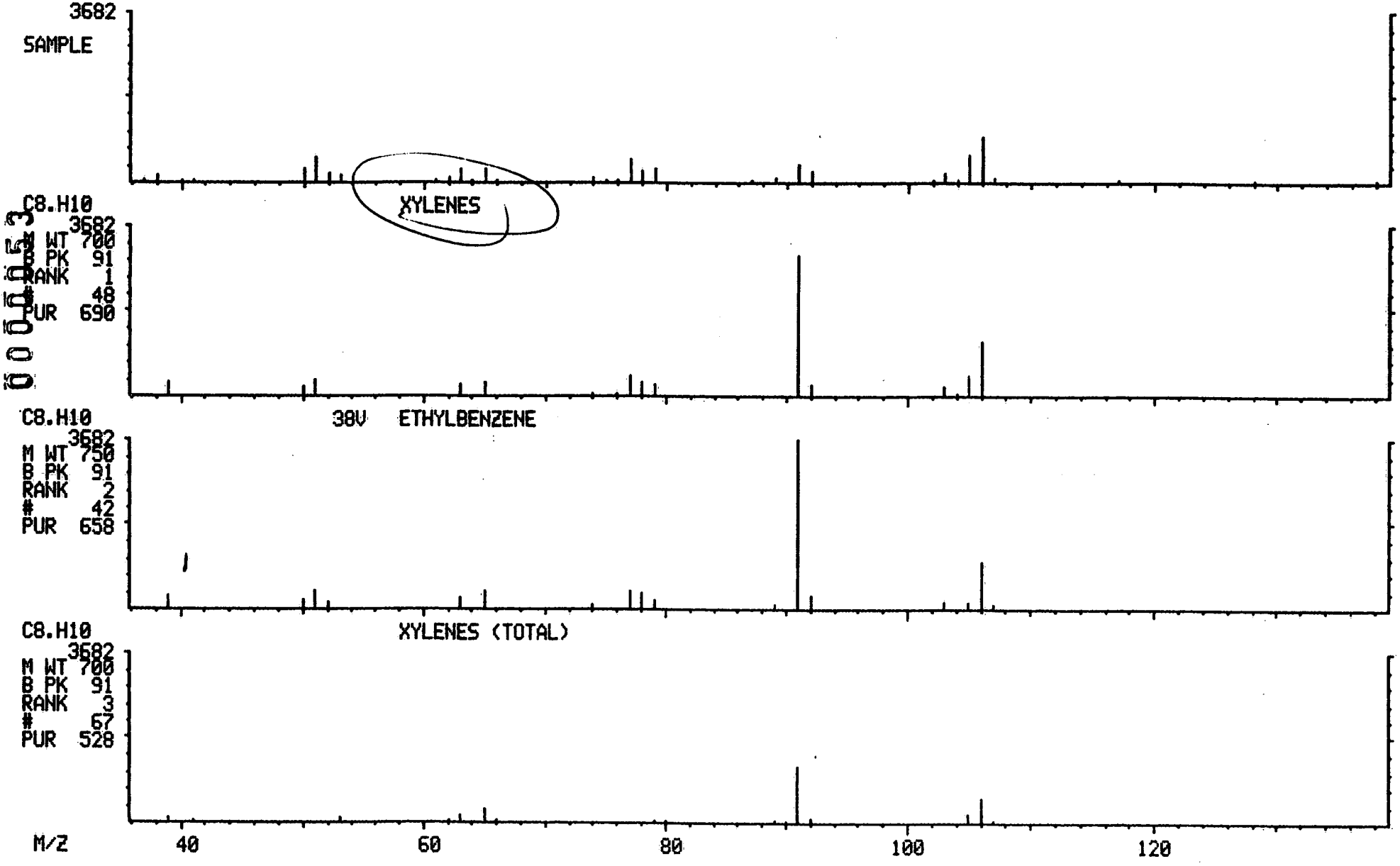


000052

LIBRARY SEARCH
04/10/92 18:40:00 + 31:58
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041013 # 959
CALI: W041013 # 2

BASE M/Z: 106
RIC: 612351.

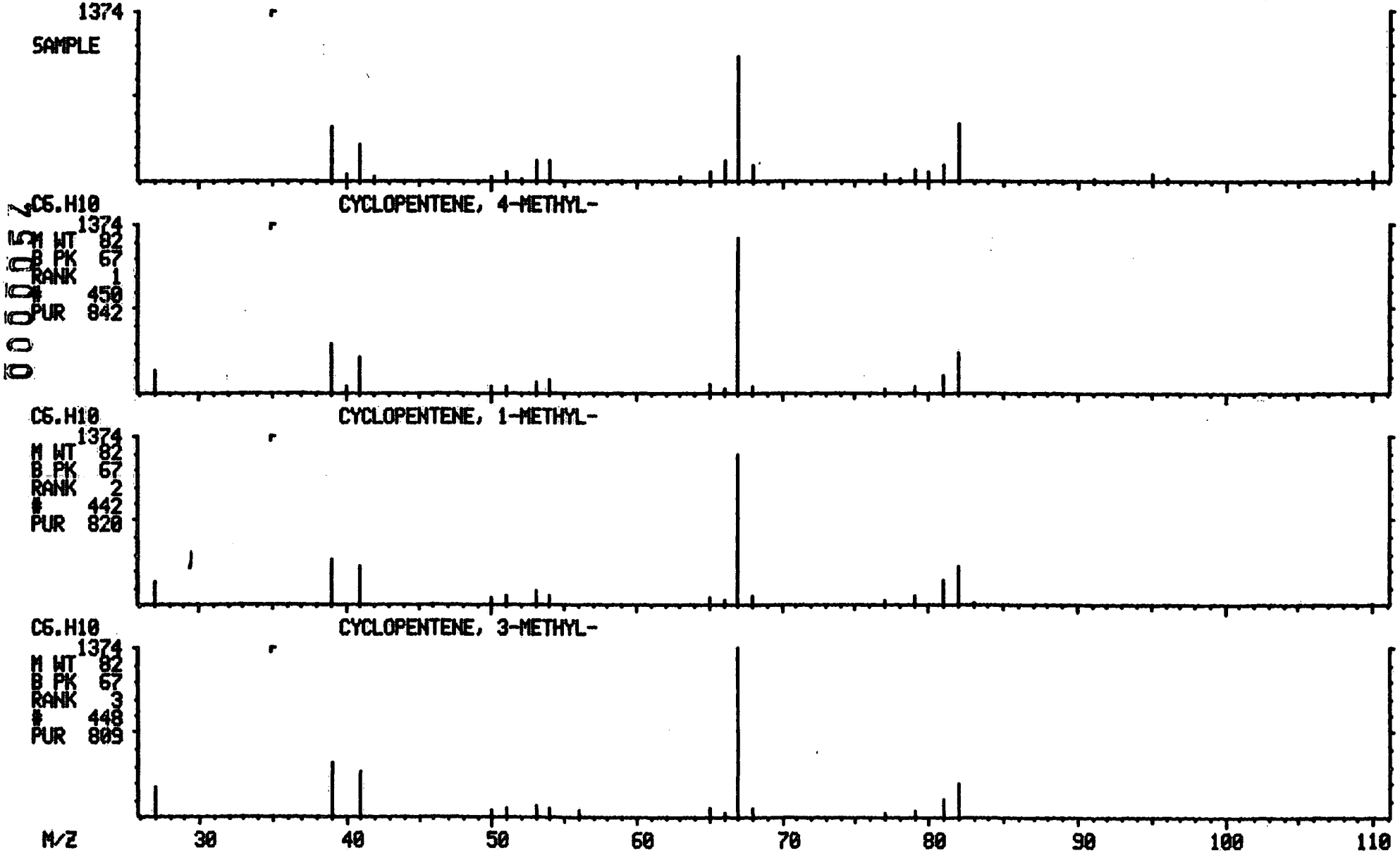


000053

LIBRARY SEARCH
04/10/92 18:40:00 + 20:52
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041013 # 626
CALI: W041013 # 2

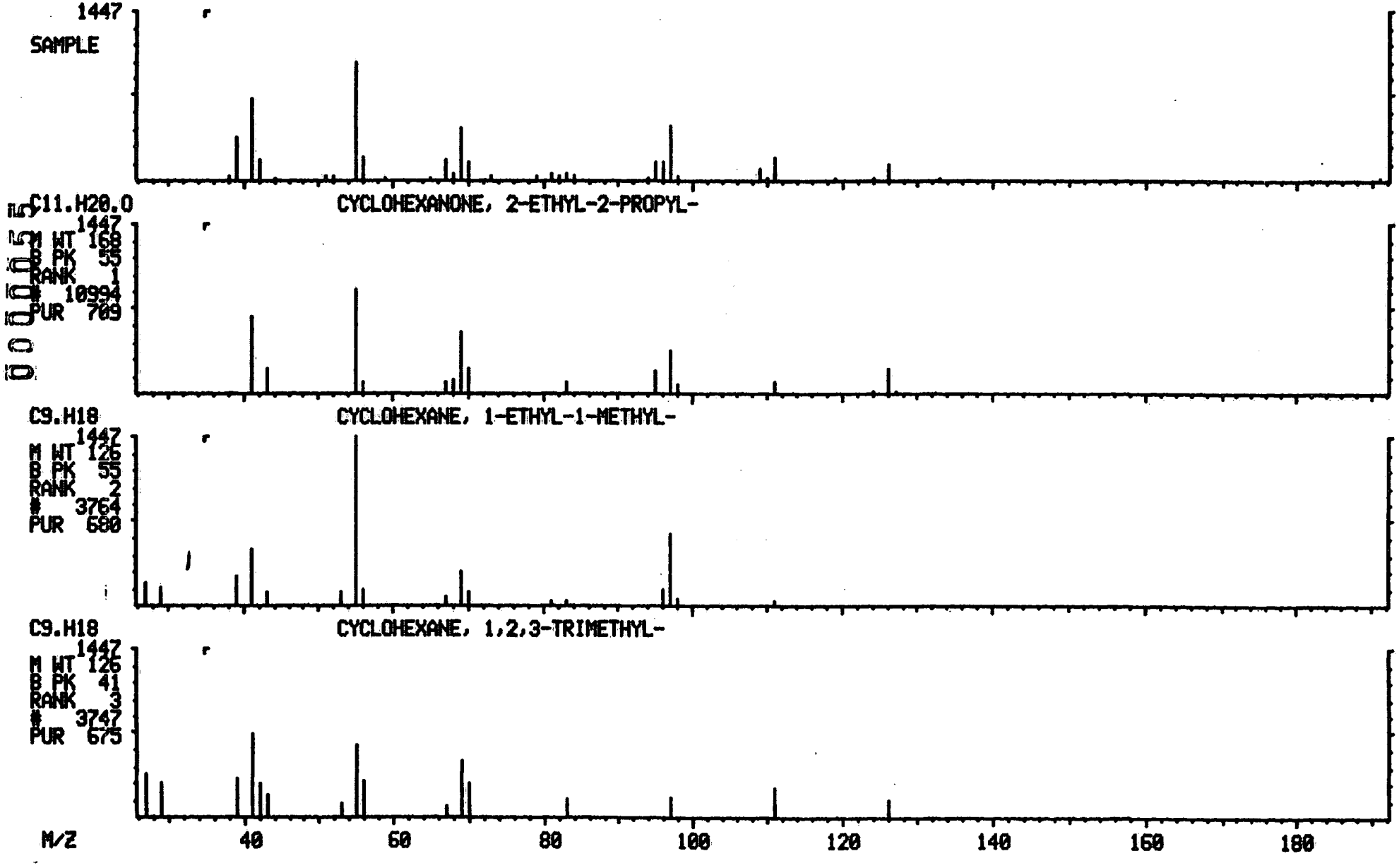
BASE M/Z: 67
RIC: 14559.



LIBRARY SEARCH
04/10/92 18:40:00 + 27:20
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041013 # 820
CALI: W041013 # 2

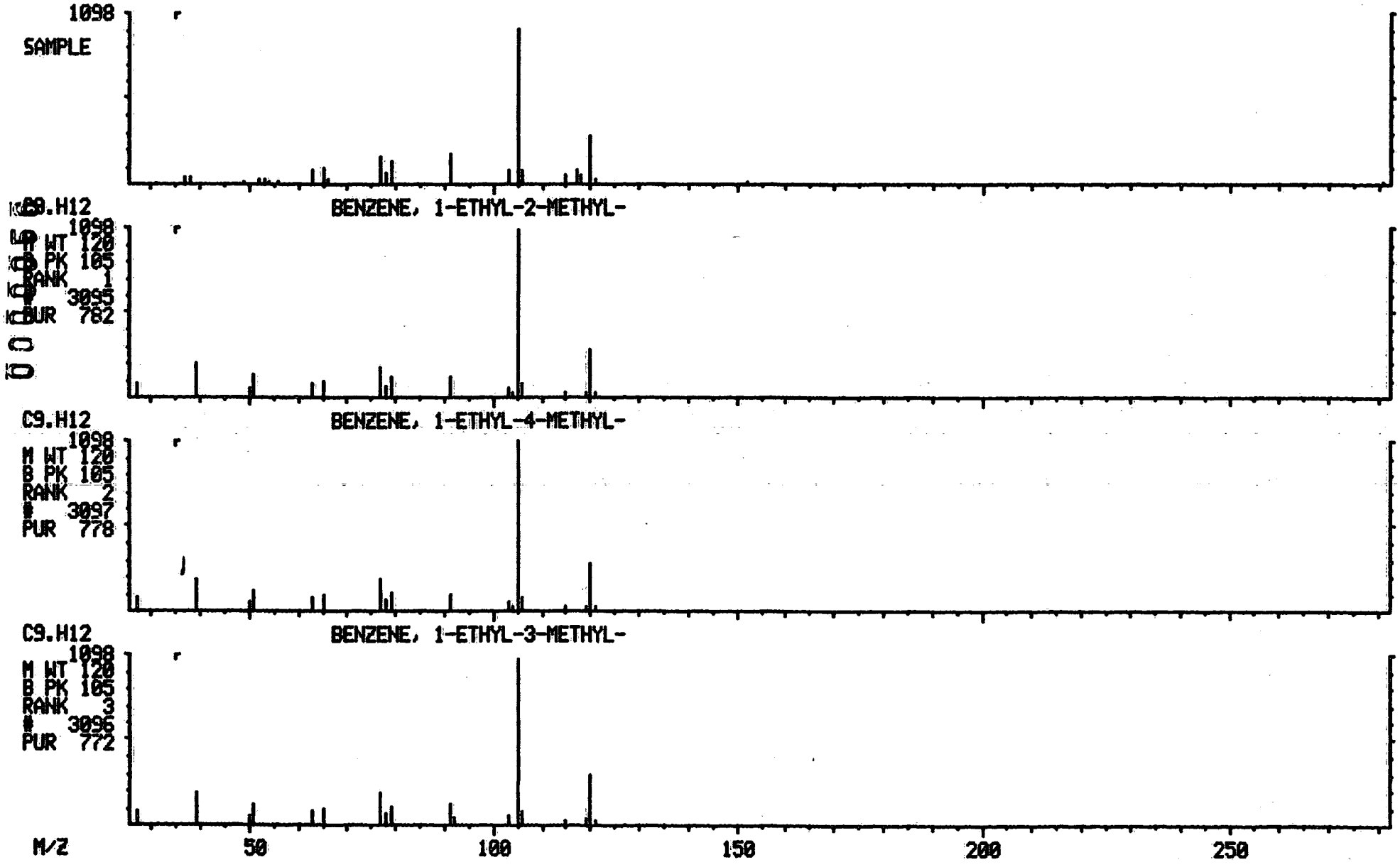
BASE M/Z: 55
RIC: 26815.



LIBRARY SEARCH
04/10/92 18:40:00 + 38:04
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041013 #1142
CALI: W041013 # 2

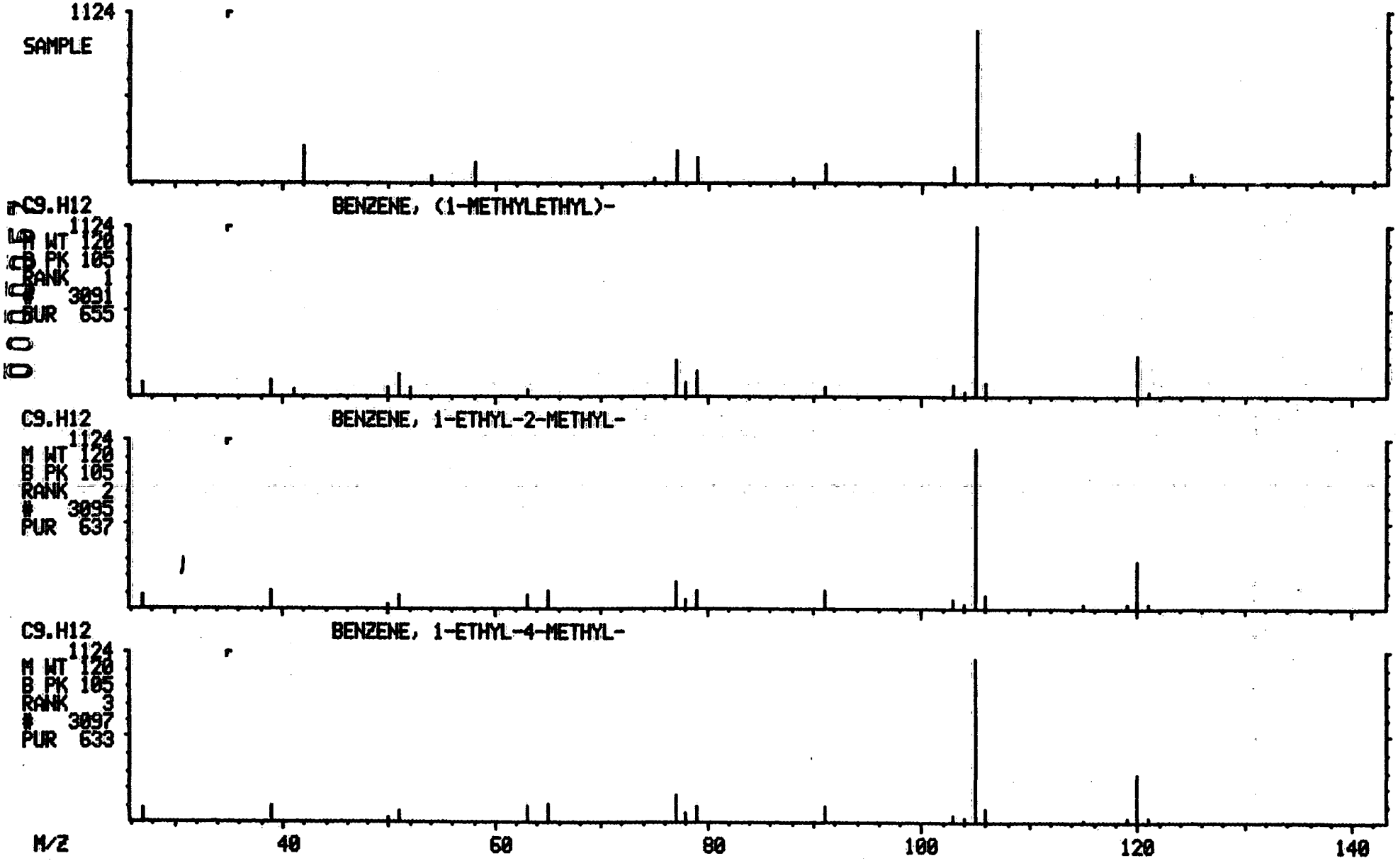
BASE M/Z: 105
RIC: 14111.



LIBRARY SEARCH
04/10/92 18:40:00 + 39:30
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1Z-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041013 #1185
CALI: W041013 # 2

BASE M/Z: 105
RIC: 4143.



1A

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-3DL

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9204L922-002 DL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041308

Level: (low/med) LOW

Date Received: 04/08/92

% Moisture: not dec. _____

Date Analyzed: 04/13/92

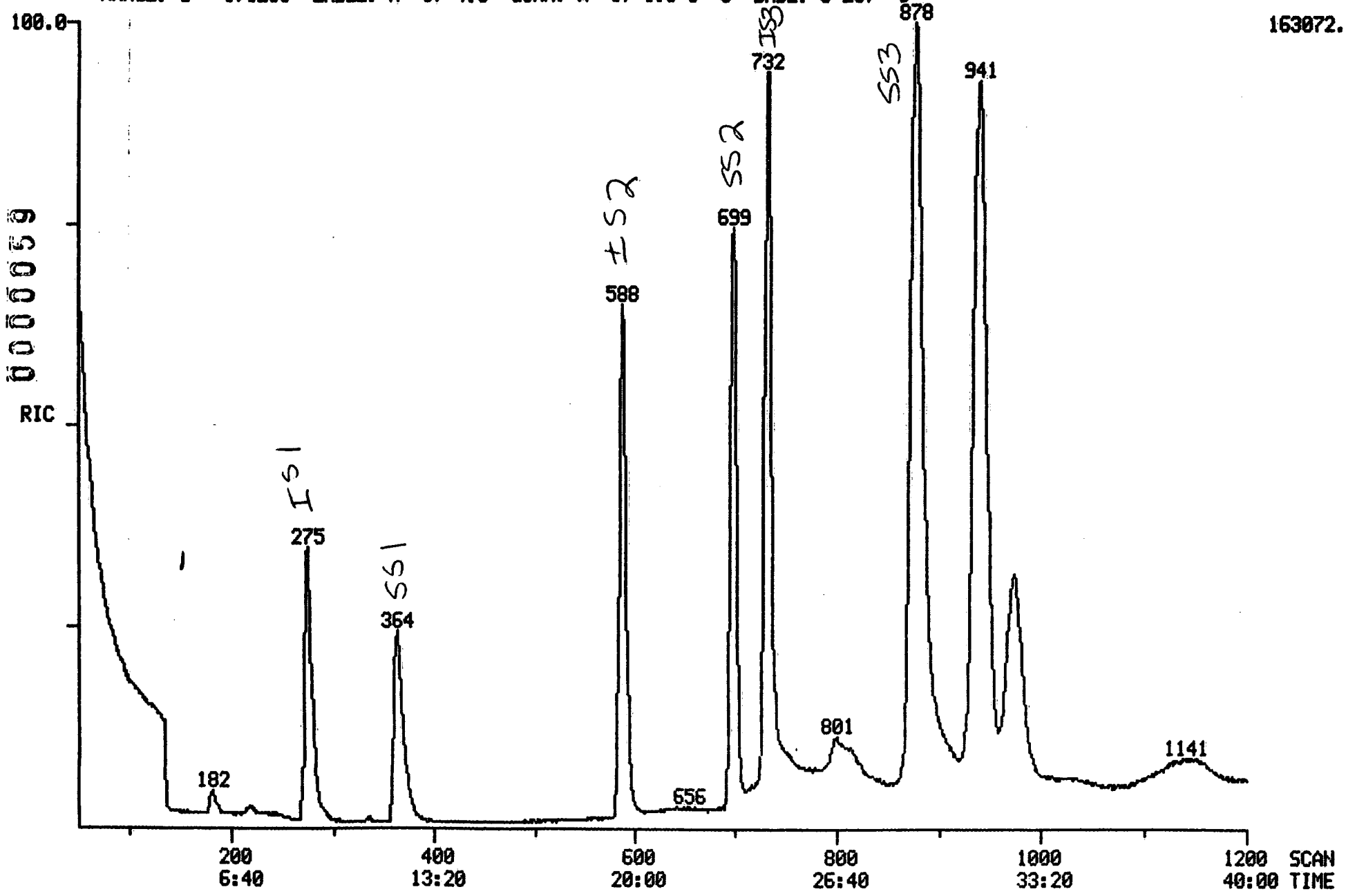
Column: (pack/cap) PACK

Dilution Factor: 100

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	Trans-1,3-Dichloropropene	NA	
110-75-8	2-chloroethylvinylether	NA	
75-25-2	Bromoform	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	200	J
95-50-1	1,2-Dichlorobenzene	NA	
541-73-1	1,3-Dichlorobenzene	NA	
106-46-7	1,4-Dichlorobenzene	NA	
107-02-8	Acrolein	NA	
107-13-1	Acrylonitrile	NA	
75-69-4	Trichlorofluoromethane	NA	
1330-20-7	Xylene (total)	15000	

RIC DATA: W041308 #1 SCANS 50 TO 1200
04/13/92 15:06:00 CALI: W041308 #2
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W COLUMN:1% DIL100
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: W041308 0000060

Data: W041308.TI
04/13/92 15:06:00
Sample: 9204L922-002 WSI-LE CARPENTER 5.0 ML
Conds.: INST:1050W COLUMN:1% DIL100
Formula: W041301 Instrument: 1050W Weight: 0.015
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

0000061

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

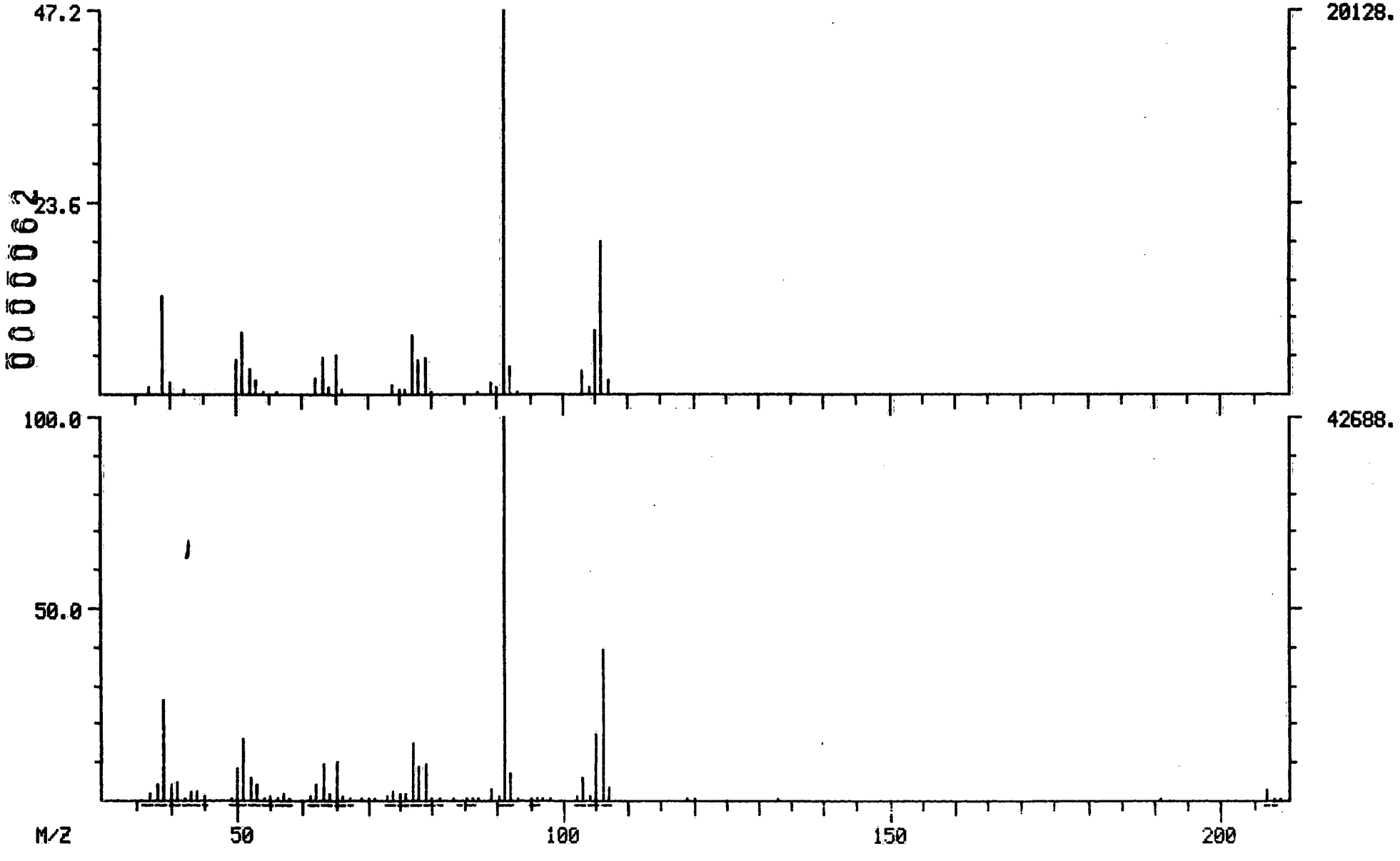
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	275	9:10	1	1.000	A BB	39110.	50.000 UG/L	10.41
2	65	364	12:08	1	1.324	A BB	144641.	54.885 UG/L	11.43
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	181	6:02	1	0.658	A BB	4873.	5.366 UG/L	1.12
8	43	219	7:18	1	0.796	A BB	11368.	16.239 UG/L	3.38 NT
9	NOT FOUND								
10	76	233	7:46	1	0.847	A BB	988.	0.543 UG/L	0.11
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	83	336	11:12	1	1.222	A BB	1083.	0.369 UG/L	0.08
17	NOT FOUND								
18	NOT FOUND								
19	114	588	19:36	19	1.000	A BB	221493.	50.000 UG/L	10.41
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	117	732	24:24	33	1.000	A BB	217707.	50.000 UG/L	10.41
34	98	699	23:18	33	0.955	A BB	231083.	50.502 UG/L	10.51
35	95	878	29:16	33	1.199	A BB	229237.	49.915 UG/L	10.39
36	43	633	21:06	33	0.865	A VB	4177.	2.925 UG/L	0.61 NT
37	43	681	22:42	33	0.930	A BV	1481.	1.689 UG/L	0.35 NT
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	106	799	26:38	33	1.092	A BB	3388.	2.030 UG/L	0.42
43	NOT FOUND								
44	106	940	31:20	33	1.284	A BB	208280.	114.844 UG/L	23.91
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	106	974	32:28	33	1.331	A BB	54879.	31.076 UG/L	6.47
49	NOT FOUND								
50	NOT FOUND								

145.92

DUAL MASS SPECTRUM
04/13/92 15:06:00 + 31:20
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W COLUMN:1% DIL100
GC TEMP: 215 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041308 #940
CALI: W041308 #2

BASE M/Z: 91/ 91
RIC: 63615./ 150783.

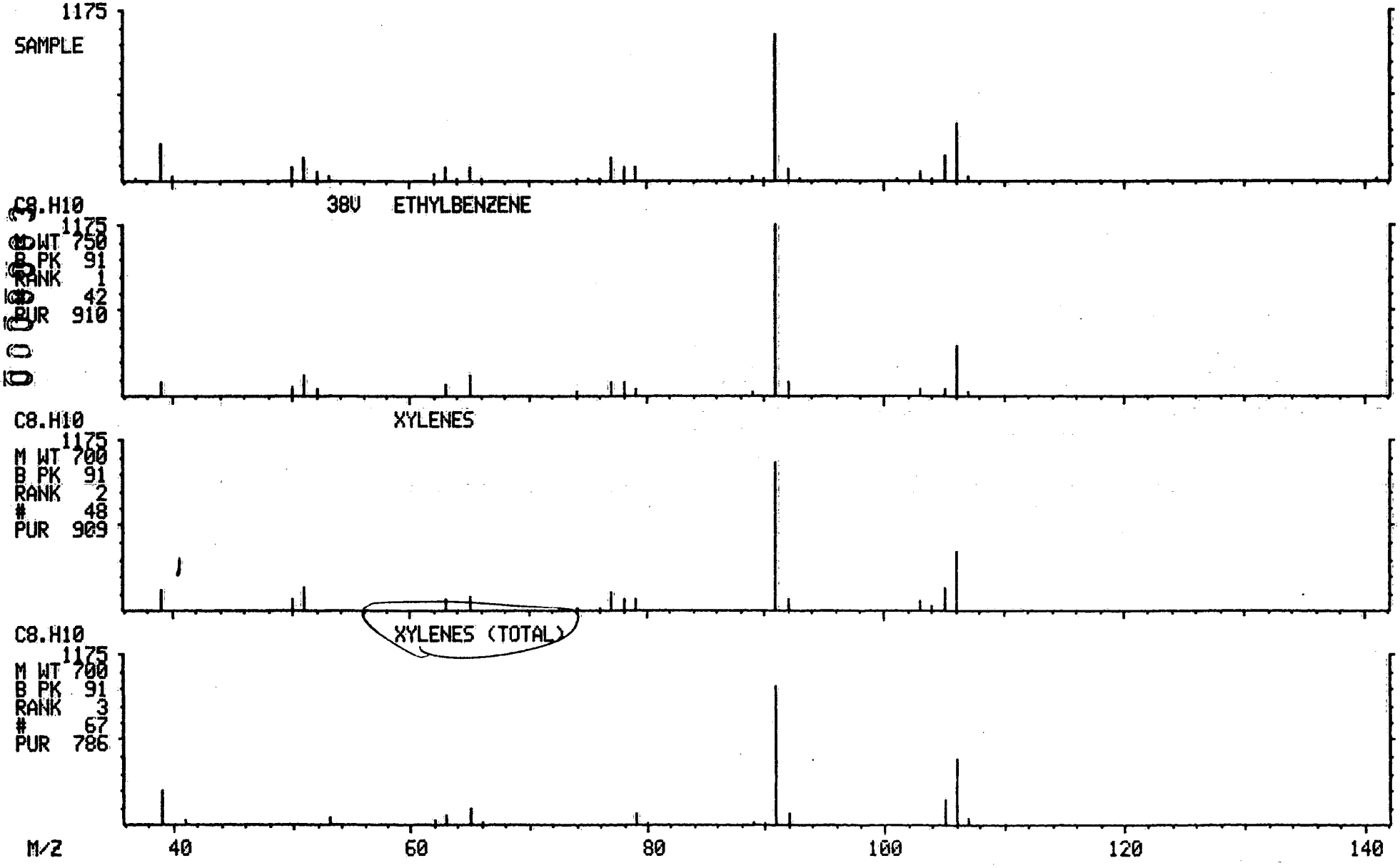


000062

LIBRARY SEARCH
04/13/92 15:06:00 + 31:20
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W COLUMN:1% DIL100
ENHANCED (S 15B 2N 0T)

DATA: W041308 # 940
CALI: W041308 # 2

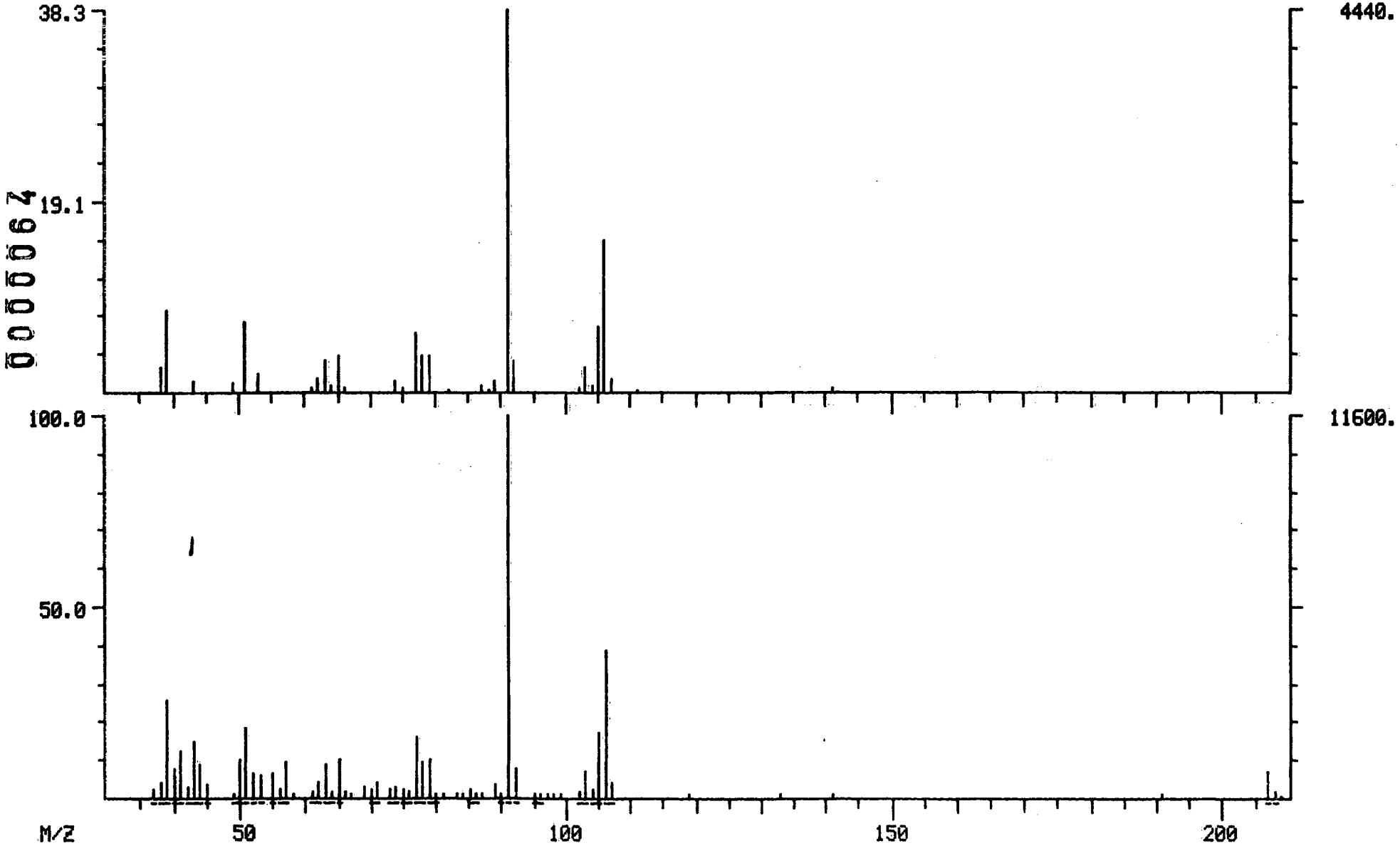
BASE M/Z: 91
RIC: 62911.



DUAL MASS SPECTRUM
04/13/92 15:06:00 + 32:28
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W COLUMN:1% DIL100
GC TEMP: 215 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041308 #974
CALI: W041308 #2

BASE M/Z: 91/ 91
RIC: 13679./ 51647.

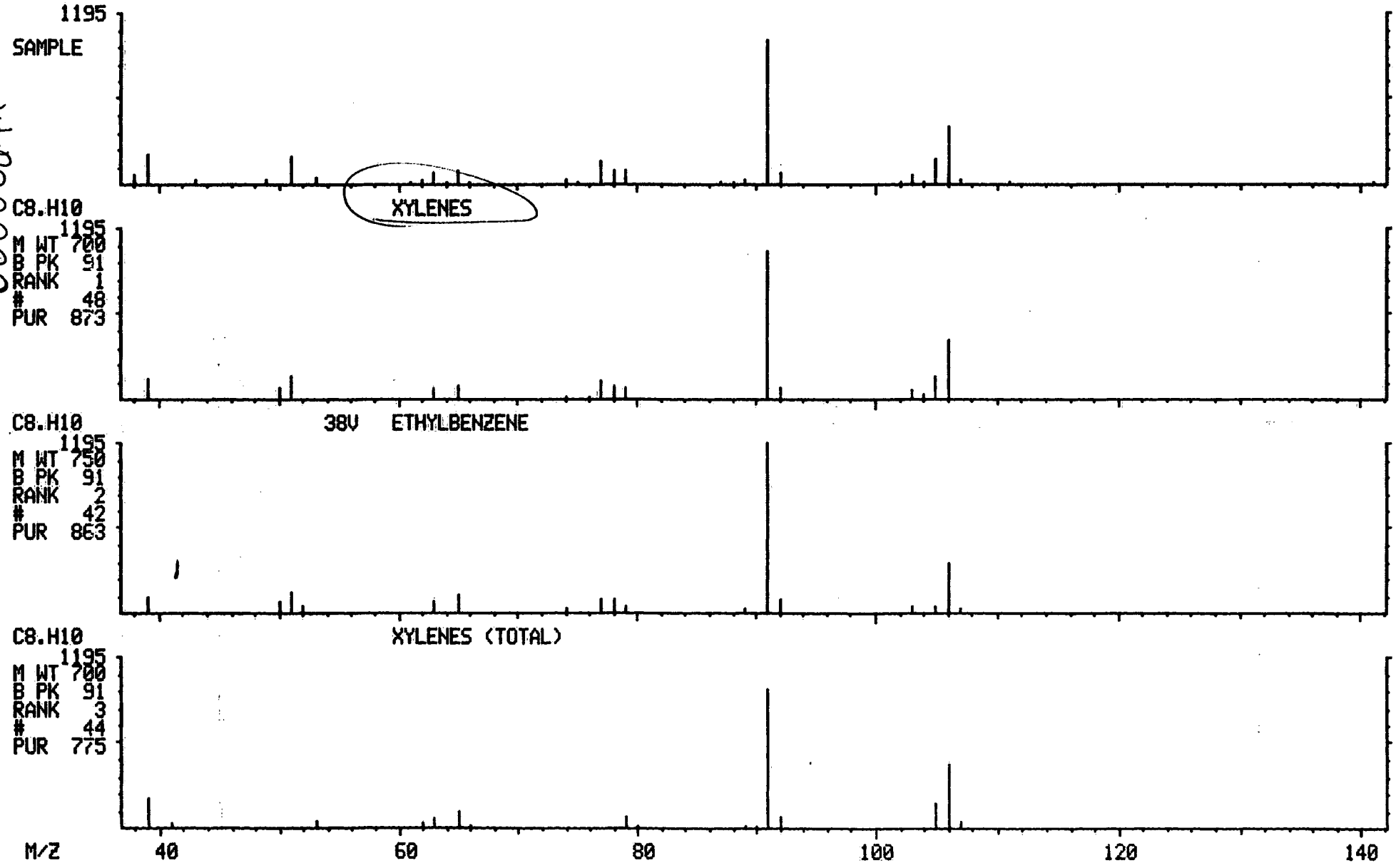


000006 4

LIBRARY SEARCH
04/13/92 15:06:00 + 32:28
SAMPLE: 9204L922-002 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W COLUMN:1% DIL100
ENHANCED (S 15B 2N 0T)

DATA: W041308 # 974
CALI: W041308 # 2

BASE M/Z: 91
RIC: 13647.



000000GAK

1A 0000065

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-4

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9204L922-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041012

Level: (low/med) LOW

Date Received: 04/08/92

% Moisture: not dec. ____

Date Analyzed: 04/10/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	100	
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	340	

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-4

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9204L922-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041012

Level: (low/med) LOW

Date Received: 04/08/92

% Moisture: not dec. _____

Date Analyzed: 04/10/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

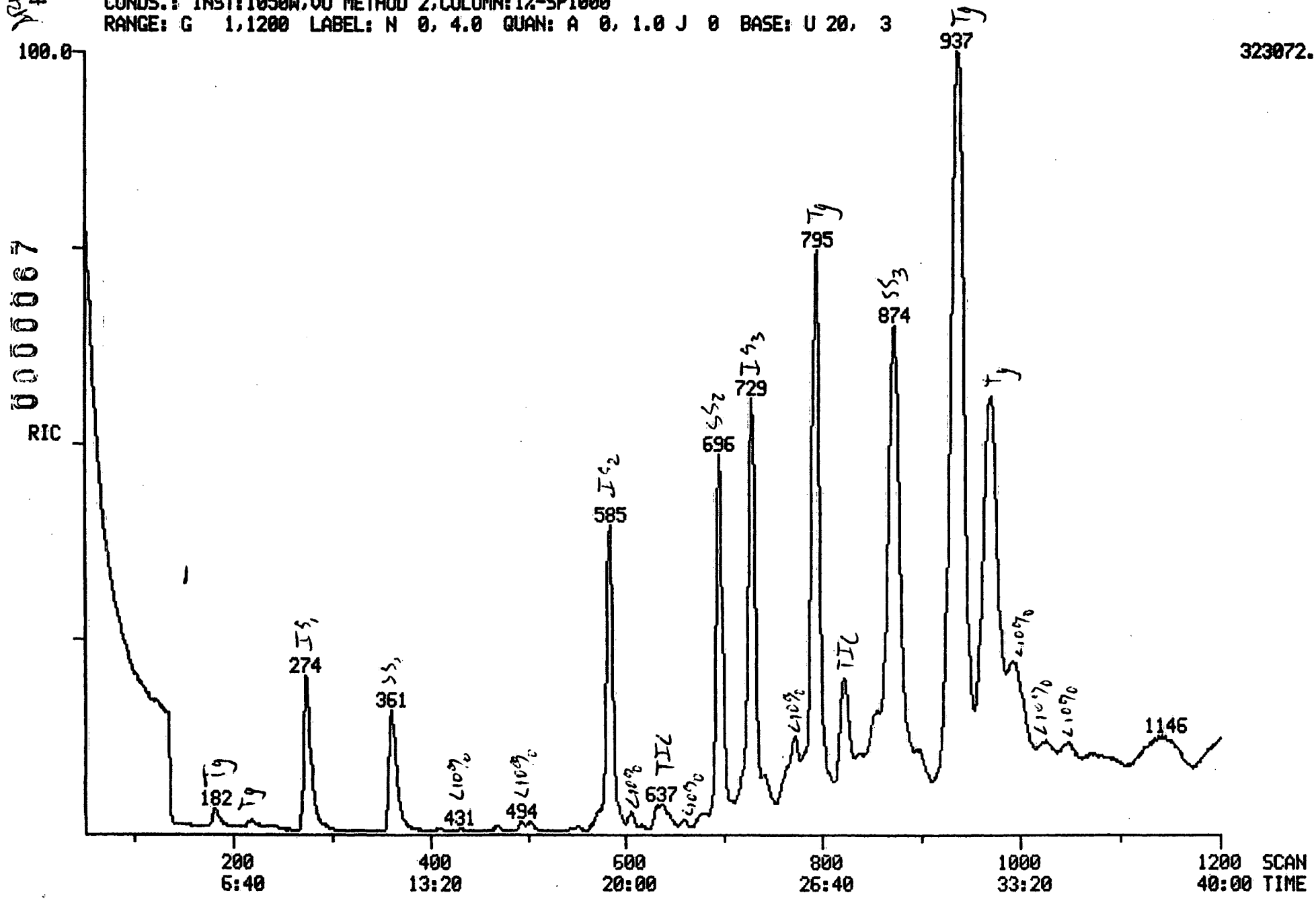
Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	21.20	7	J
2.	UNKNOWN	27.43	10	J

RIC
04/10/92 17:55:00
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W041012 #1 SCANS 50 TO 1200
CALI: W041012 #2



Quantitation Report File: W041012 0000068

Data: W041012.TI
04/10/92 17:55:00
Sample: 9204L922-003 WSI-LE CARPENTER 5.0 ML
Conds.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
Formula: W041001 Instrument: 1050W Weight: 0.014
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

0000069

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	274	9:08	1	1.000	A BB	46140.	50.000	UG/L	6.40
2	65	361	12:02	1	1.318	A BB	163311.	50.559	UG/L	6.47
3	NOT FOUND									
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	84	182	6:04	1	0.664	A BB	8358.	7.343	UG/L	0.94
8	43	218	7:16	1	0.796	A BB	17889.	19.986	UG/L	2.56 NT
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
17	NOT FOUND									
18	NOT FOUND									
19	114	585	19:30	19	1.000	A BB	248415.	50.000	UG/L	6.40
20	NOT FOUND									
21	NOT FOUND									
22	43	416	13:52	19	0.711	A BB	326.	0.161	UG/L	0.02
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	117	729	24:18	33	1.000	A BB	234327.	50.000	UG/L	6.40
34	98	696	23:12	33	0.955	A BB	247084.	49.703	UG/L	6.36
35	95	874	29:08	33	1.199	A BB	262714.	52.024	UG/L	6.66
36	NOT FOUND									
37	43	679	22:38	33	0.931	A BB	4905.	6.240	UG/L	0.80 NT
38	NOT FOUND									
39	NOT FOUND									
40	92	699	23:18	33	0.959	A BB	207.	0.080	UG/L	0.01
41	NOT FOUND									
42	106	795	26:30	33	1.091	A BB	187263.	104.916	UG/L	13.43
43	NOT FOUND									
44	106	938	31:16	33	1.287	A BB	416826.	210.813	UG/L	27.00
45	NOT FOUND									
46	NOT FOUND									
47	NOT FOUND									
48	106	970	32:20	33	1.331	A BB	251270.	129.136	UG/L	16.54
49	NOT FOUND									
50	NOT FOUND									

JBP
4/30/92

Quantitation Report File: W041012TI 0000070

Data: W041012.TI
04/10/92 17:55:00
Sample: 9204L922-003 WSI-LE CARPENTER 5.0 ML
Conds.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
Formula: W041001 Instrument: 1050W Weight: 0.014
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name	
1	IS2 1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
2	UNKNOWN	
3	IS3 CHLOROBENZENE D5	INTERNAL STANDARD #3
4	UNKNOWN	

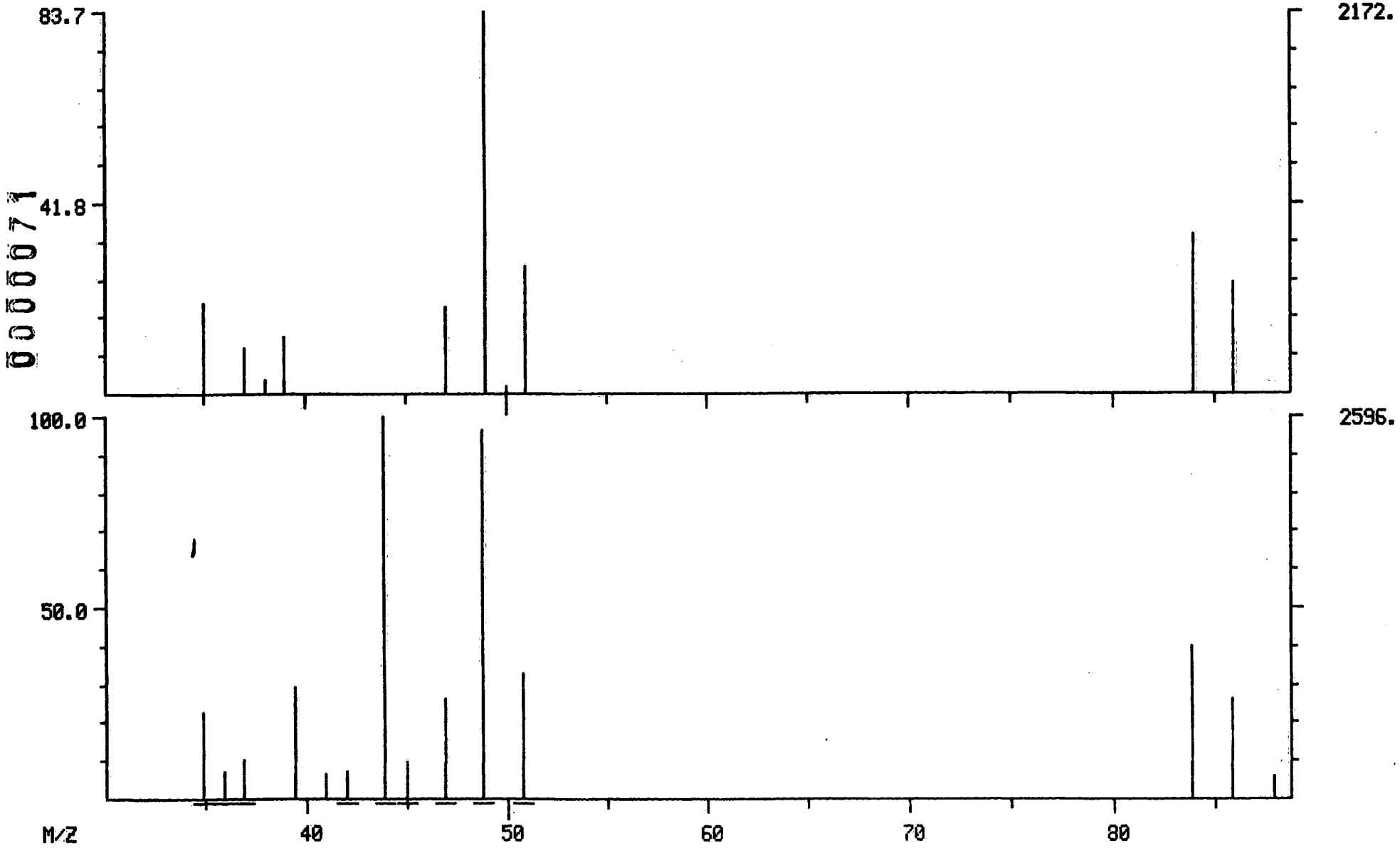
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	ug/L
1	RIC	585	19:30	1	1.000	A BB	925960.	50.000 UG/L	36.32	
2	RIC	636	21:12	3	0.872	A BB	134064.	10.031	7.29	7.24
3	RIC	729	24:18	3	1.000	A BV	1336510.	50.000 UG/L	36.32	
4	RIC	823	27:26	3	1.129	A BV	369115.	27.618	20.06	13.81

JBS 5/8/92

DUAL MASS SPECTRUM
04/10/92 17:55:00 + 6:04
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
GC TEMP: 72 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041012 #182
CALI: W041012 #2

BASE M/Z: 49/ 44
RIC: 6151./ 10895.

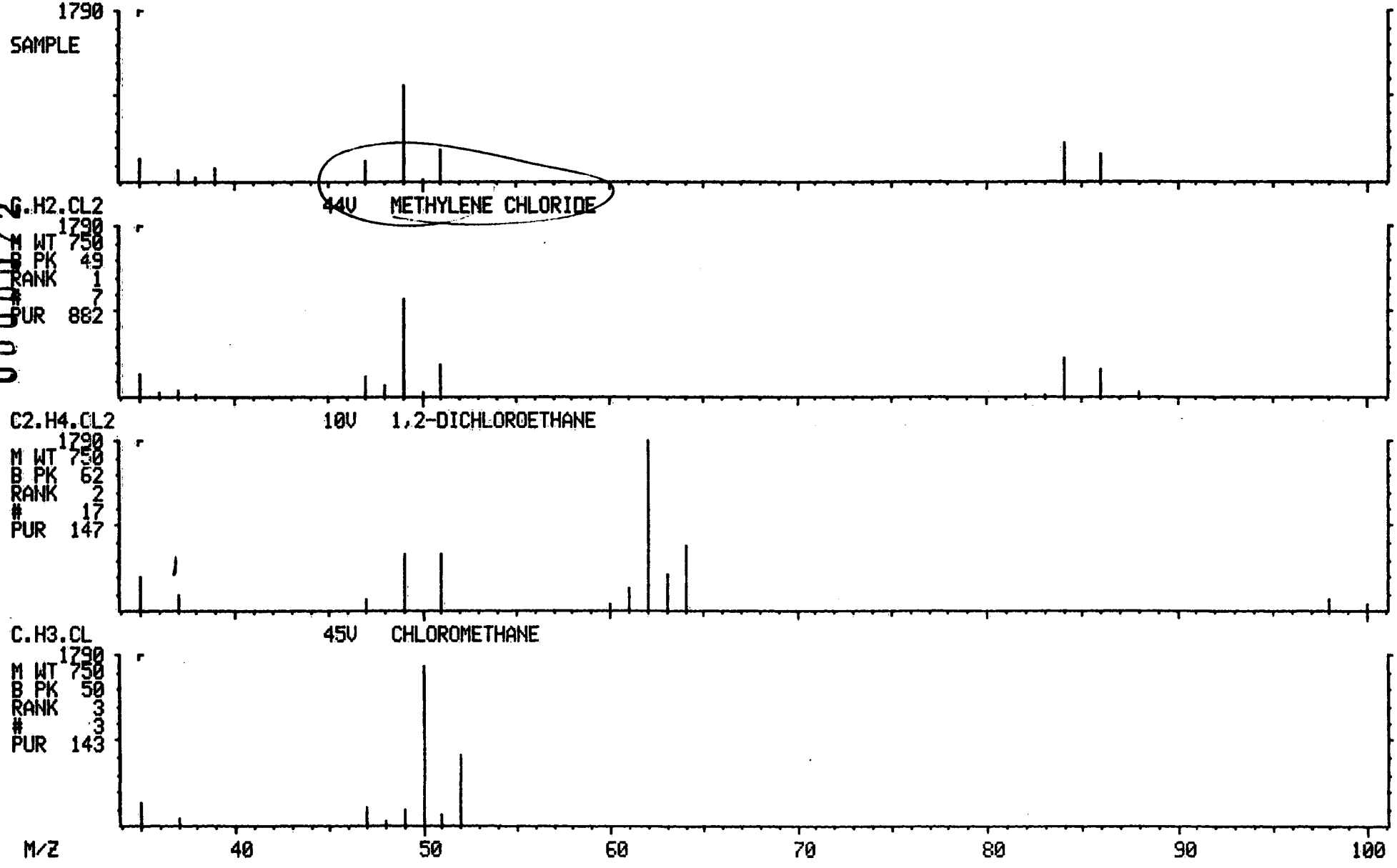


000071

LIBRARY SEARCH
04/10/92 17:55:00 + 6:04
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041012 # 182
CALI: W041012 # 2

BASE M/Z: 49
RIC: 6151.

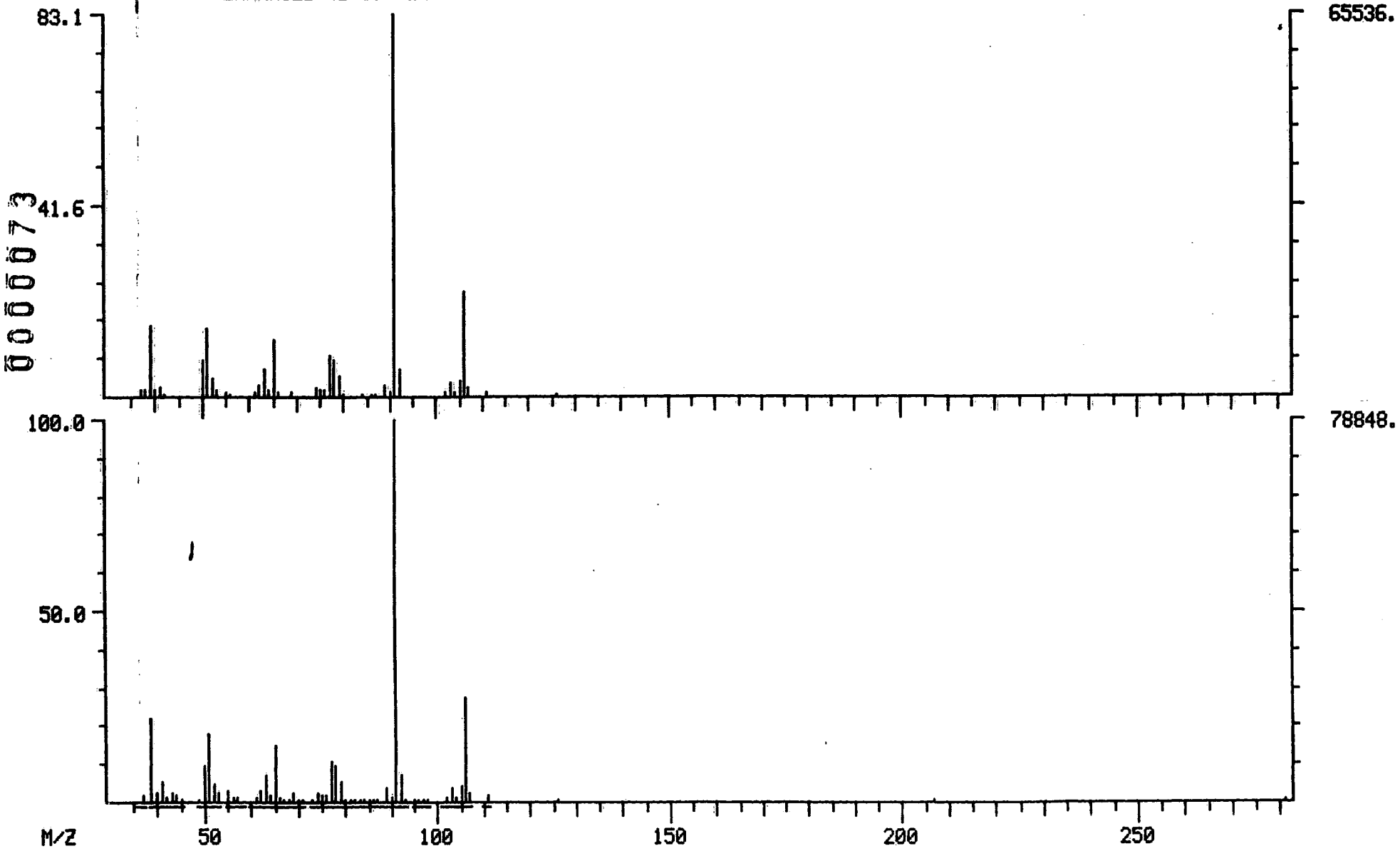


0000072

DUAL MASS SPECTRUM
04/10/92 17:55:00 + 26:30
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
GC TEMP: 214 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041012 #795
CALI: W041012 #2

BASE M/Z: 91/ 91
RIC: 183551./ 241151.

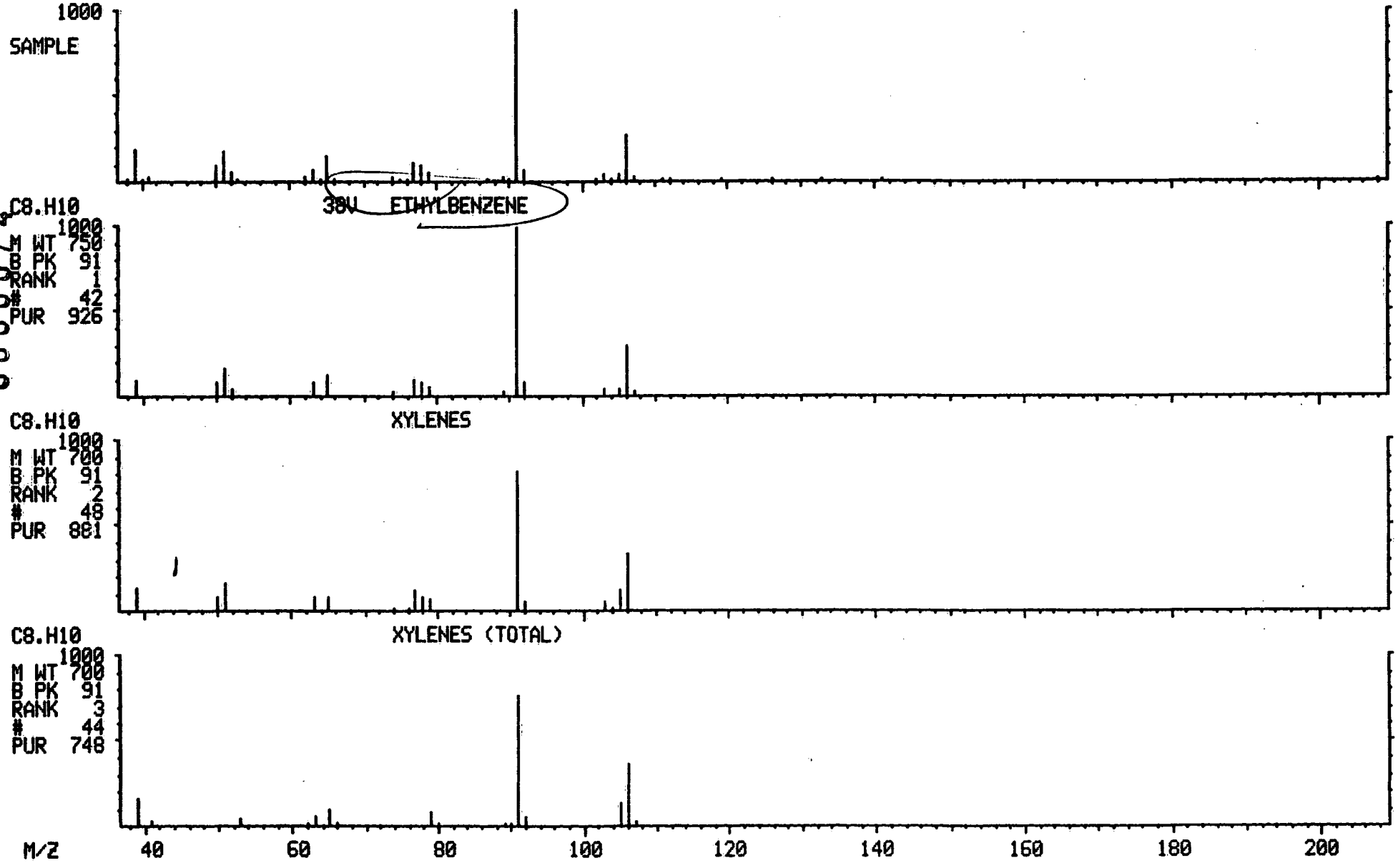


000073

LIBRARY SEARCH
04/10/92 17:55:00 + 26:30
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:17-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041012 # 795
CALI: W041012 # 2

BASE M/Z: 91
RIC: 177407.

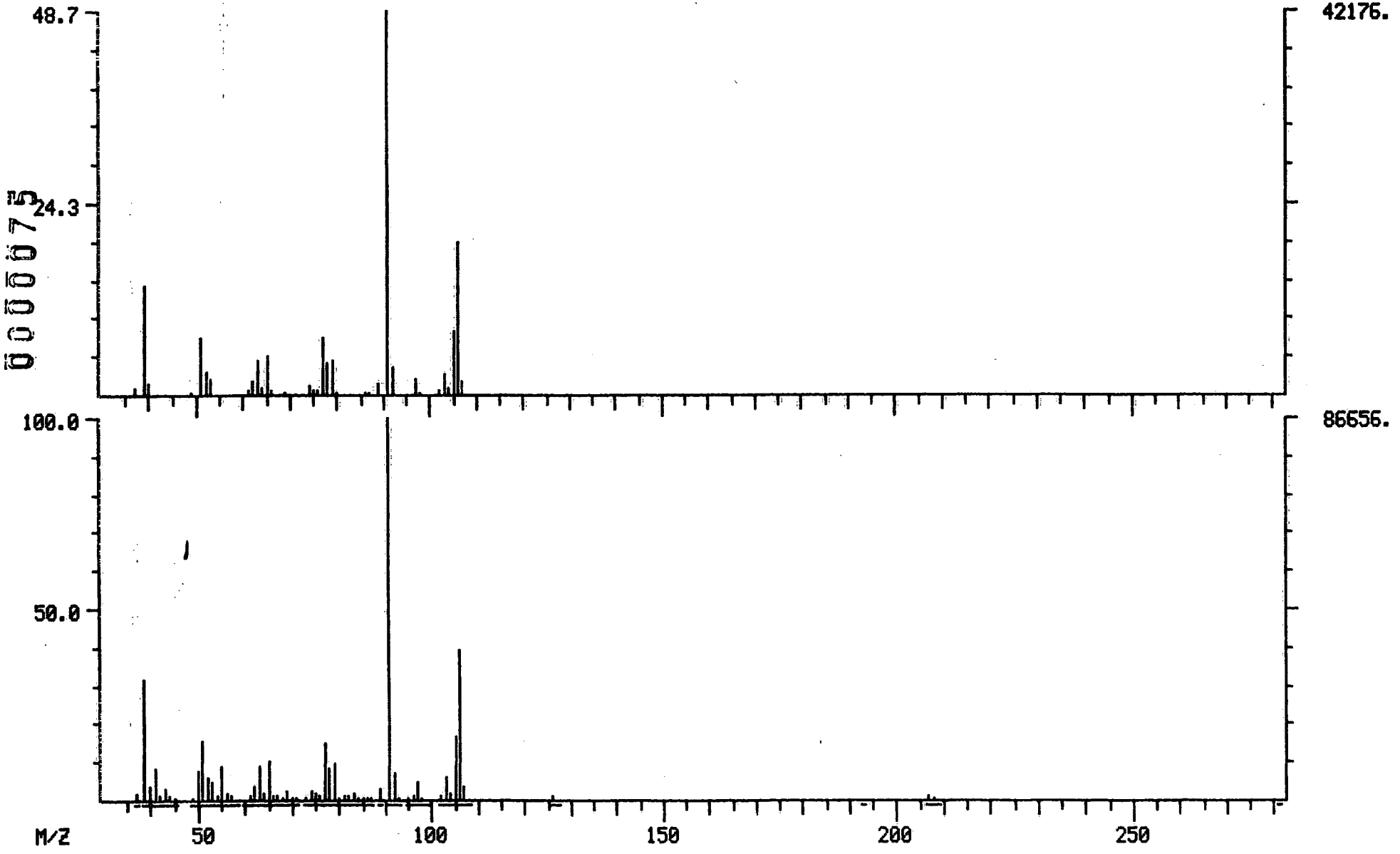


0000074

DUAL MASS SPECTRUM
04/10/92 17:55:00 + 31:16
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
GC TEMP: 214 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041012 #938
CALI: W041012 #2

BASE M/Z: 91/ 91
RIC: 131071./ 318463.

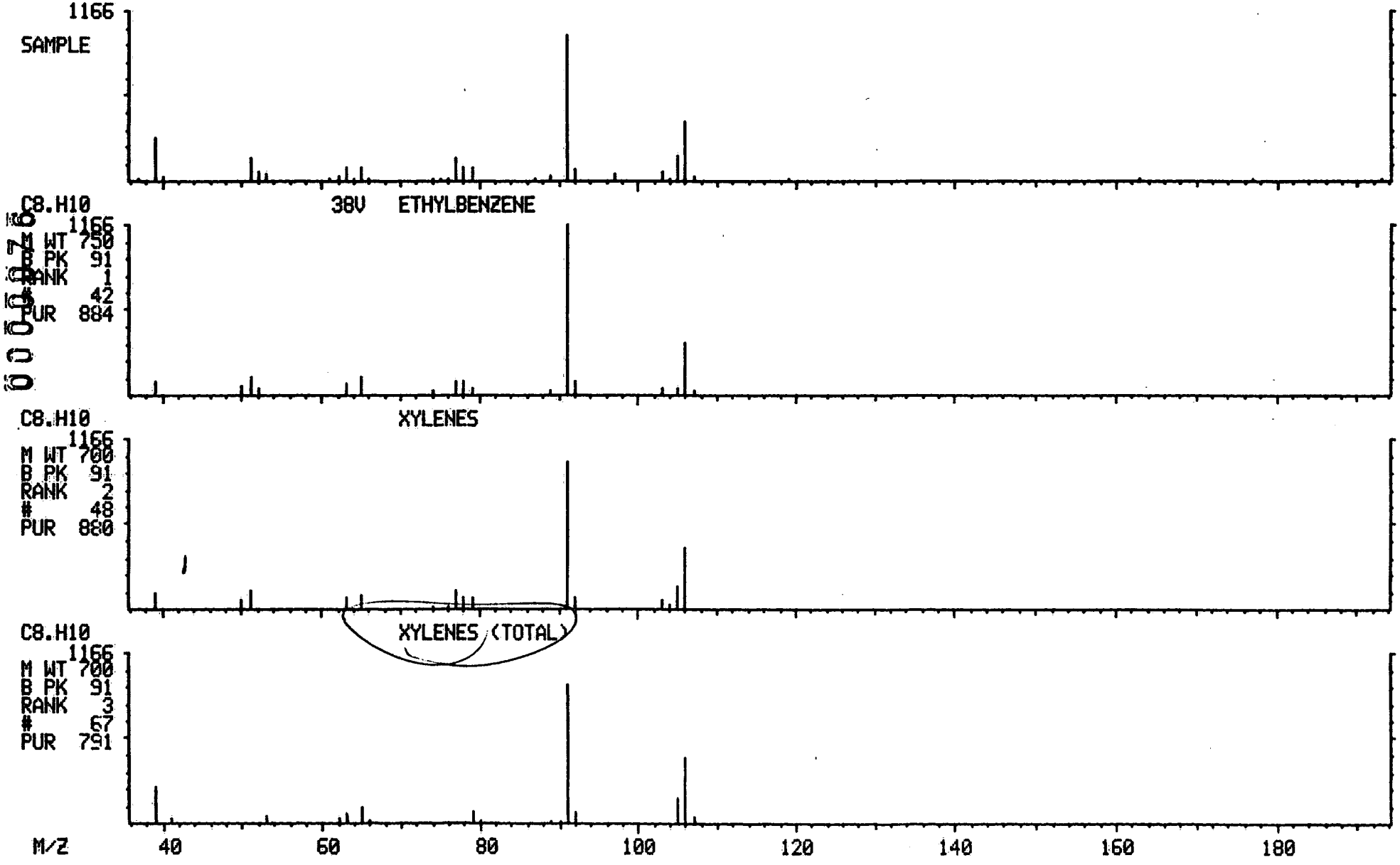


000075

LIBRARY SEARCH
04/10/92 17:55:00 + 31:16
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041012 # 938
CALI: W041012 # 2

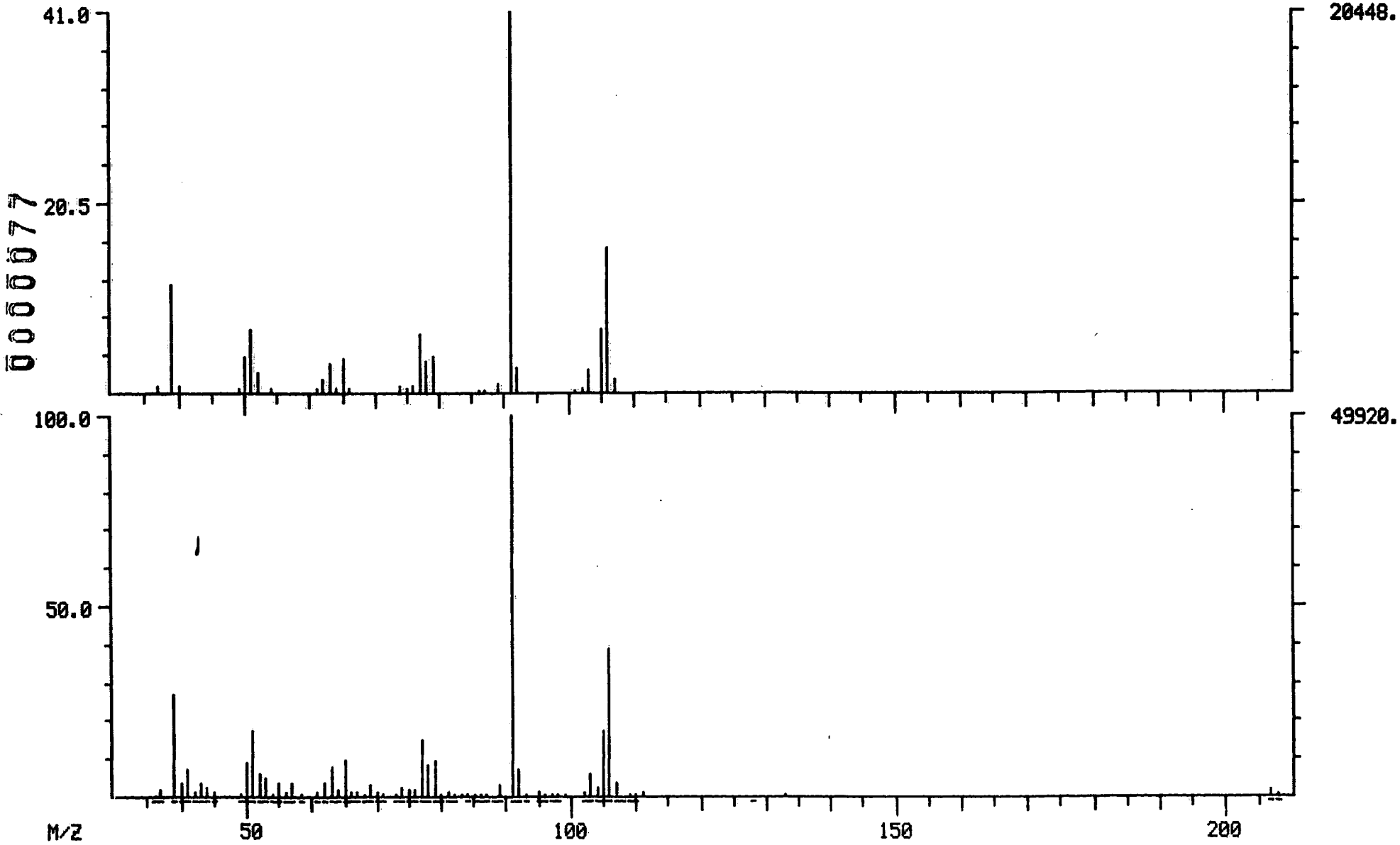
BASE M/Z: 91
RIC: 128757.



DUAL MASS SPECTRUM
04/10/92 17:55:00 + 32:20
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
GC TEMP: 214 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041012 #970
CALI: W041012 #2

BASE M/Z: 91/ 91
RIC: 62399./ 181503.

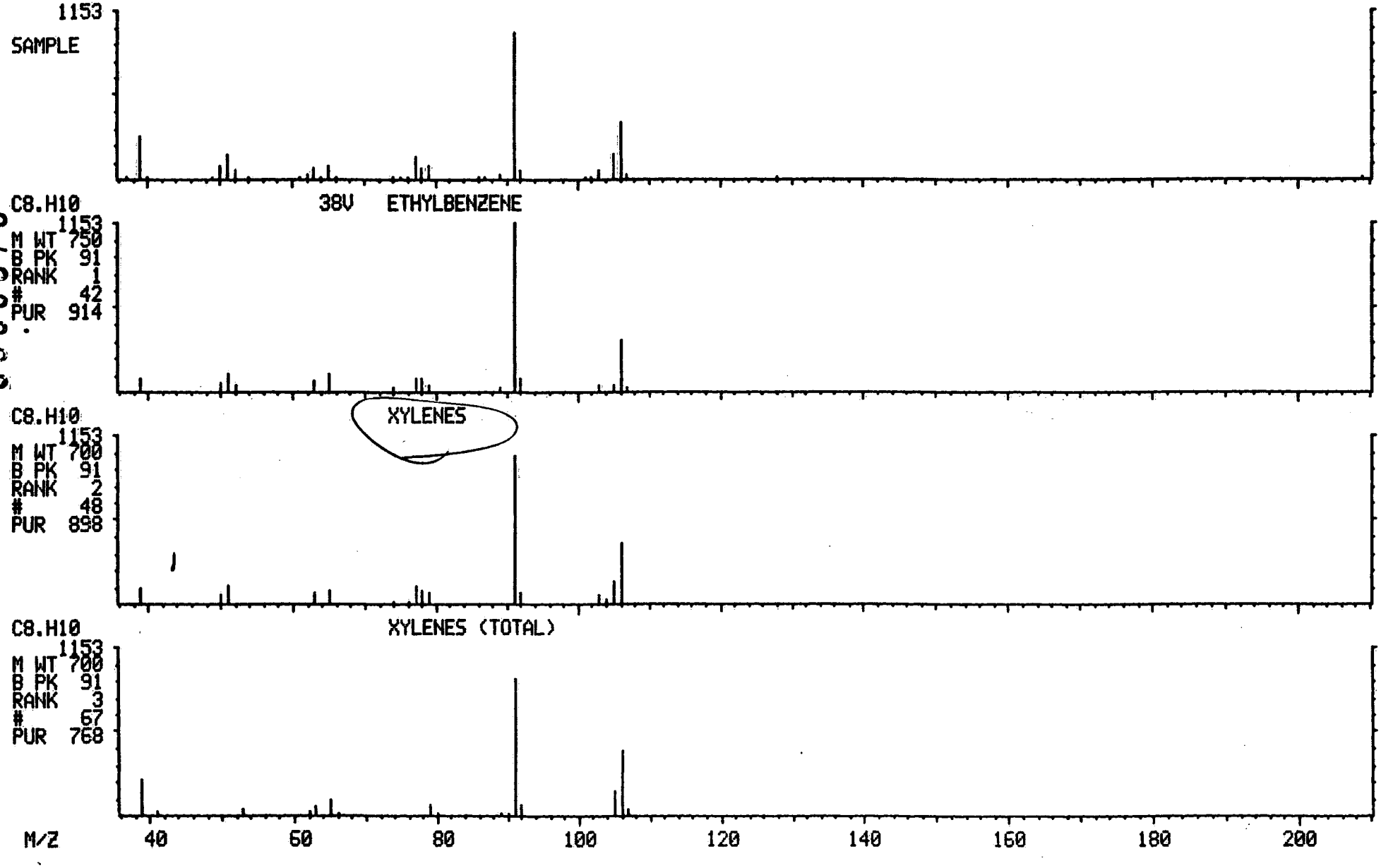


000077

LIBRARY SEARCH
04/10/92 17:55:00 + 32:20
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041012 # 970
CALI: W041012 # 2

BASE M/Z: 91
RIC: 52335.

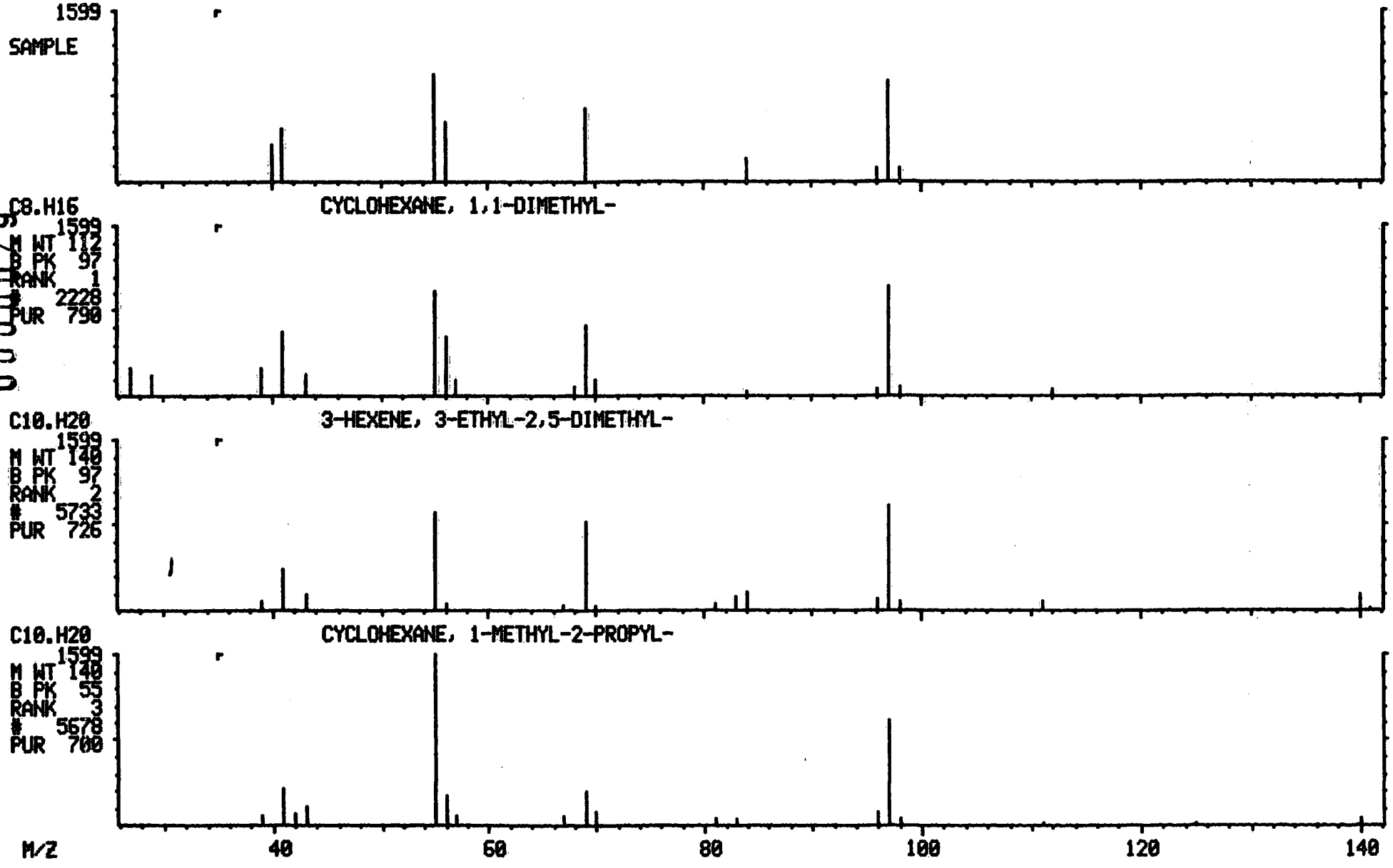


000078

LIBRARY SEARCH
04/10/92 17:55:00 + 21:12
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041012 # 636
CALI: W041012 # 2

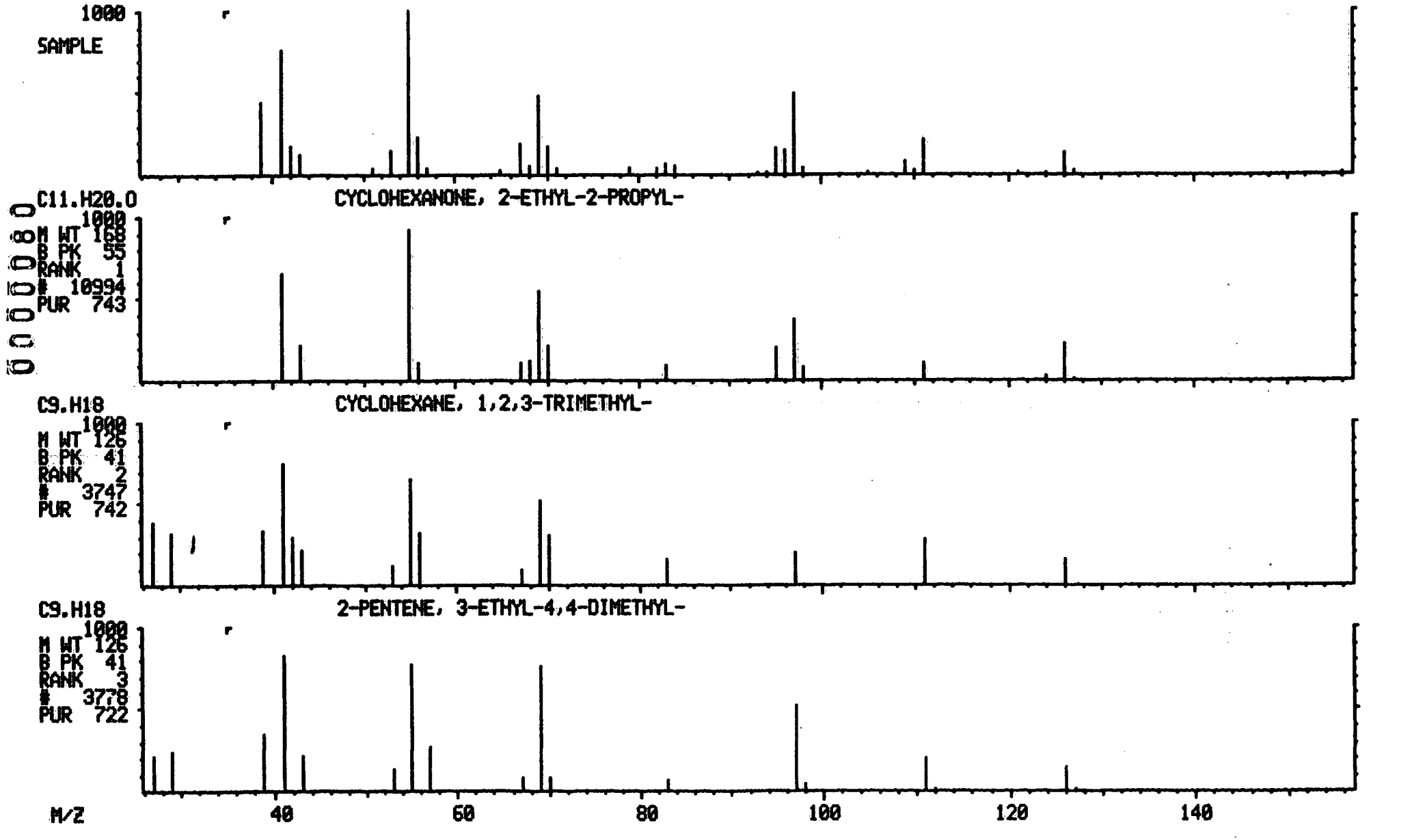
BASE M/Z: 55
RIC: 3435.



LIBRARY SEARCH
04/10/92 17:55:00 + 27:26
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041012 # 823
CALI: W041012 # 2

BASE M/Z: 55
RIC: 30527.



1A 0000081

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-4RE

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER Lab Sample ID: 9204L922-003

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W041313

Level: (low/med) LOW Date Received: 04/08/92

% Moisture: not dec. _____ Date Analyzed: 04/13/92

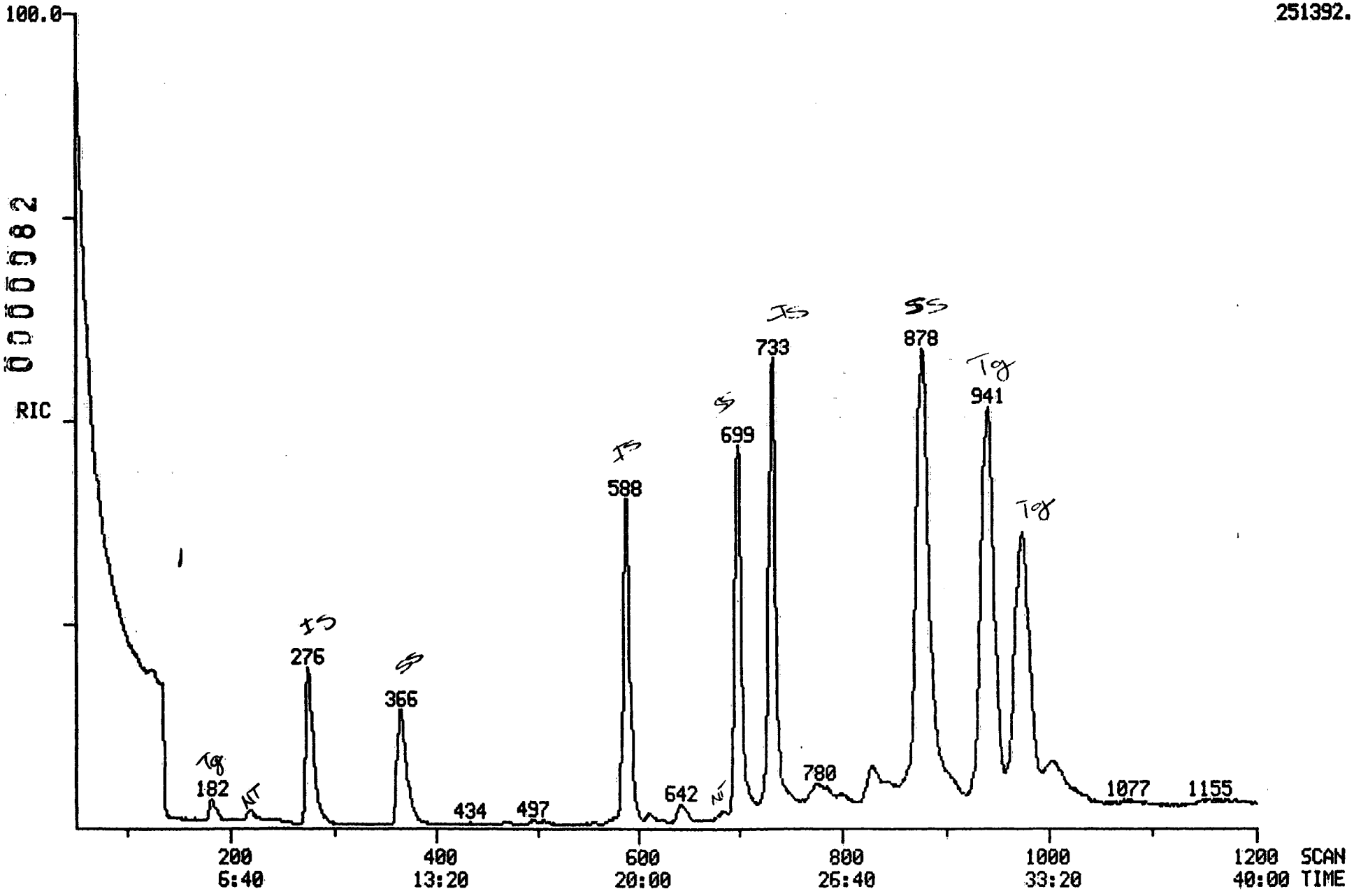
Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	9	B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	190	

R1

RIC DATA: W041313 #1 SCANS 50 TO 1200
04/13/92 18:53:00 CALI: W041313 #2
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



000082

Quantitation Report File: W041313 0000083

Data: W041313.TI
04/13/92 18:53:00
Sample: 9204L922-003 WSI-LE CARPENTER 5.0 ML
Conds.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
Formula: W041301 Instrument: 1050W Weight: 0.016
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

0000084

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

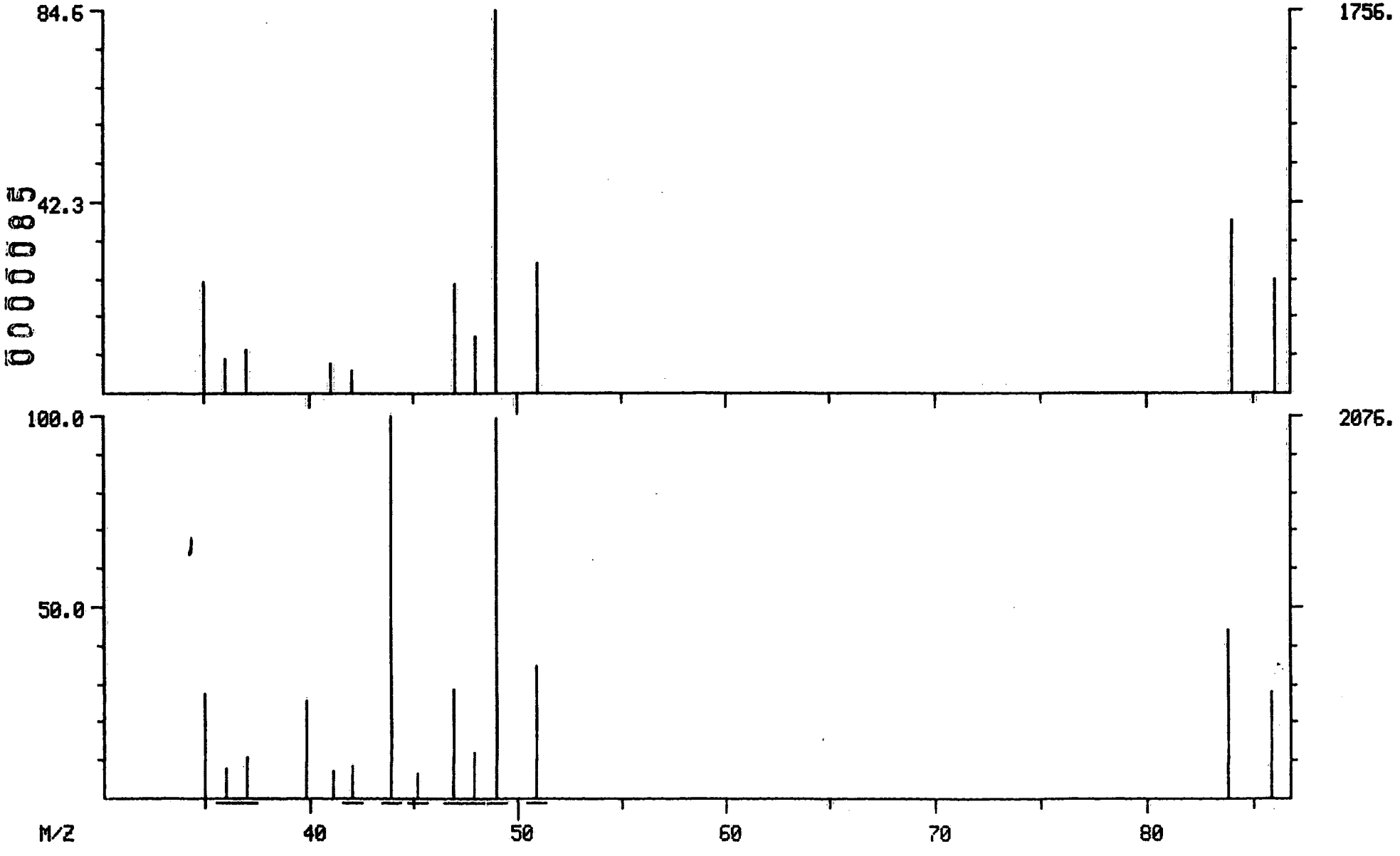
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	276	9:12	1	1.000	A BB	34886.	50.000 UG/L	9.10
2	65	366	12:12	1	1.326	A BB	133621.	56.843 UG/L	10.35
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	182	6:04	1	0.659	A BB	6917.	8.538 UG/L	1.55
8	43	219	7:18	1	0.793	A BB	22782.	36.484 UG/L	6.64 NT
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	114	588	19:36	19	1.000	A BB	205989.	50.000 UG/L	9.10
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	117	732	24:24	33	1.000	A BB	190208.	50.000 UG/L	9.10
34	98	699	23:18	33	0.955	A BB	202368.	50.621 UG/L	9.22
35	95	878	29:16	33	1.199	A BB	204724.	51.022 UG/L	9.29
36	43	632	21:04	33	0.863	A BB	762.	0.611 UG/L	0.11
37	43	685	22:50	33	0.936	A VB	1770.	2.311 UG/L	0.42 NT
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	106	940	31:20	33	1.284	A BB	179267.	113.137 UG/L	20.60
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	106	974	32:28	33	1.331	A BB	123021.	79.733 UG/L	14.52
49	NOT FOUND								
50	NOT FOUND								

fbl
4/30/92

DUAL MASS SPECTRUM
04/13/92 18:53:00 + 6:04
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
GC TEMP: 72 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041313 #182
CALI: W041313 #2

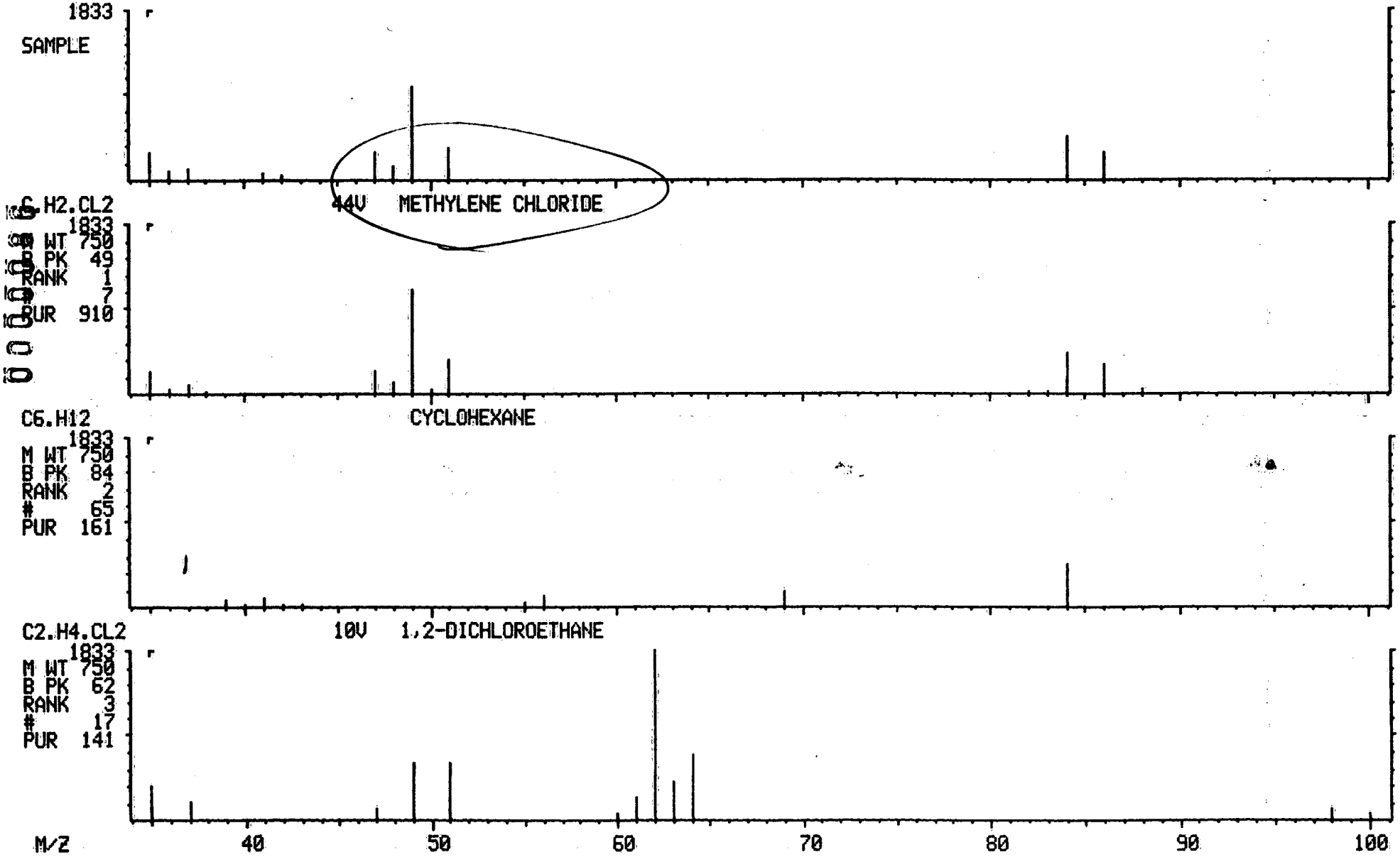
BASE M/Z: 49/ 44
RIC: 5543./ 9151.



LIBRARY SEARCH
04/13/92 18:53:00 + 6:04
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041313 # 182
CALI: W041313 # 2

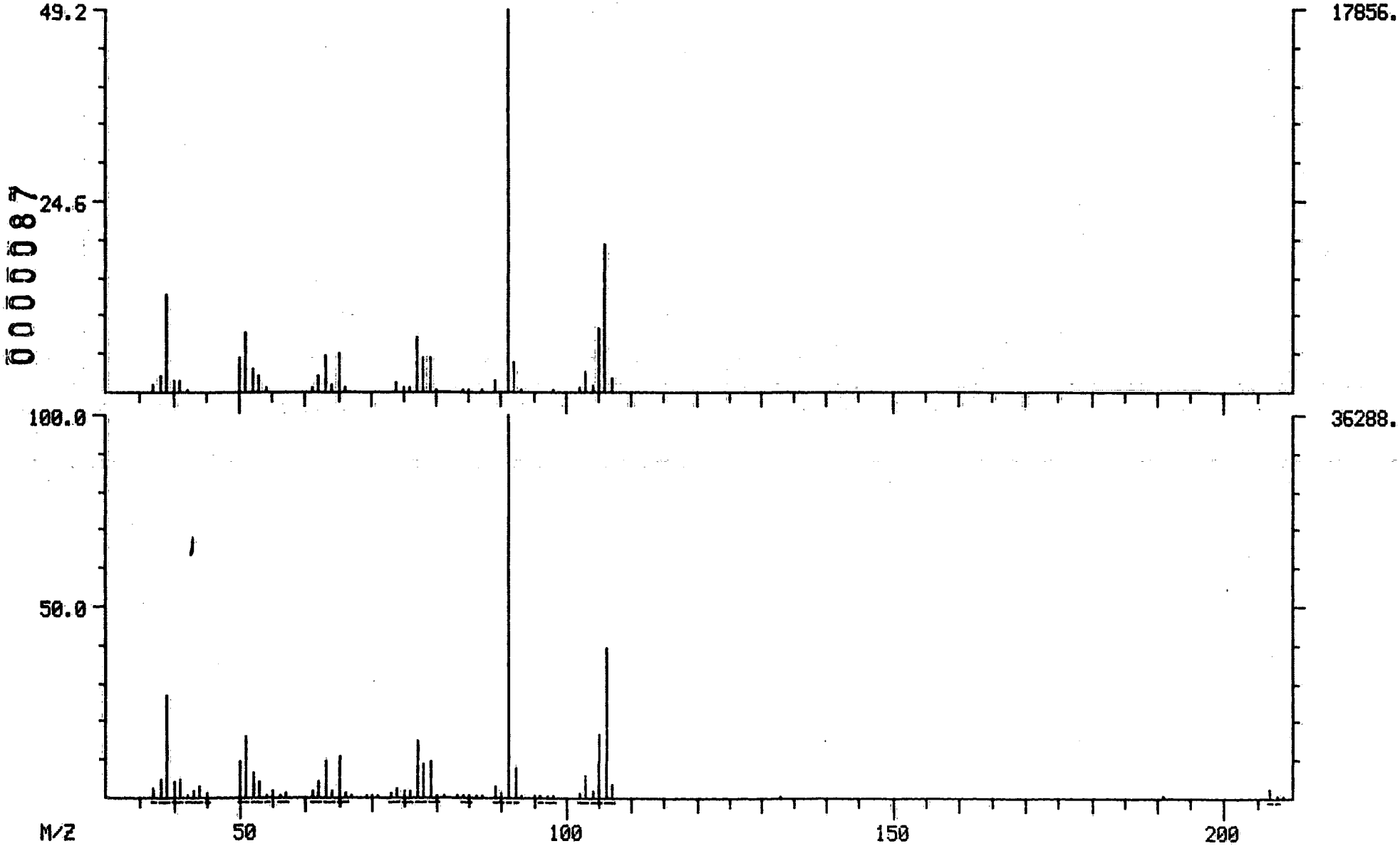
BASE M/Z: 49
RIC: 5535.



DUAL MASS SPECTRUM
04/13/92 18:53:00 + 31:20
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
GC TEMP: 215 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041313 #940
CALI: W041313 #2

BASE M/Z: 91/ 91
RIC: 57279./ 128895.

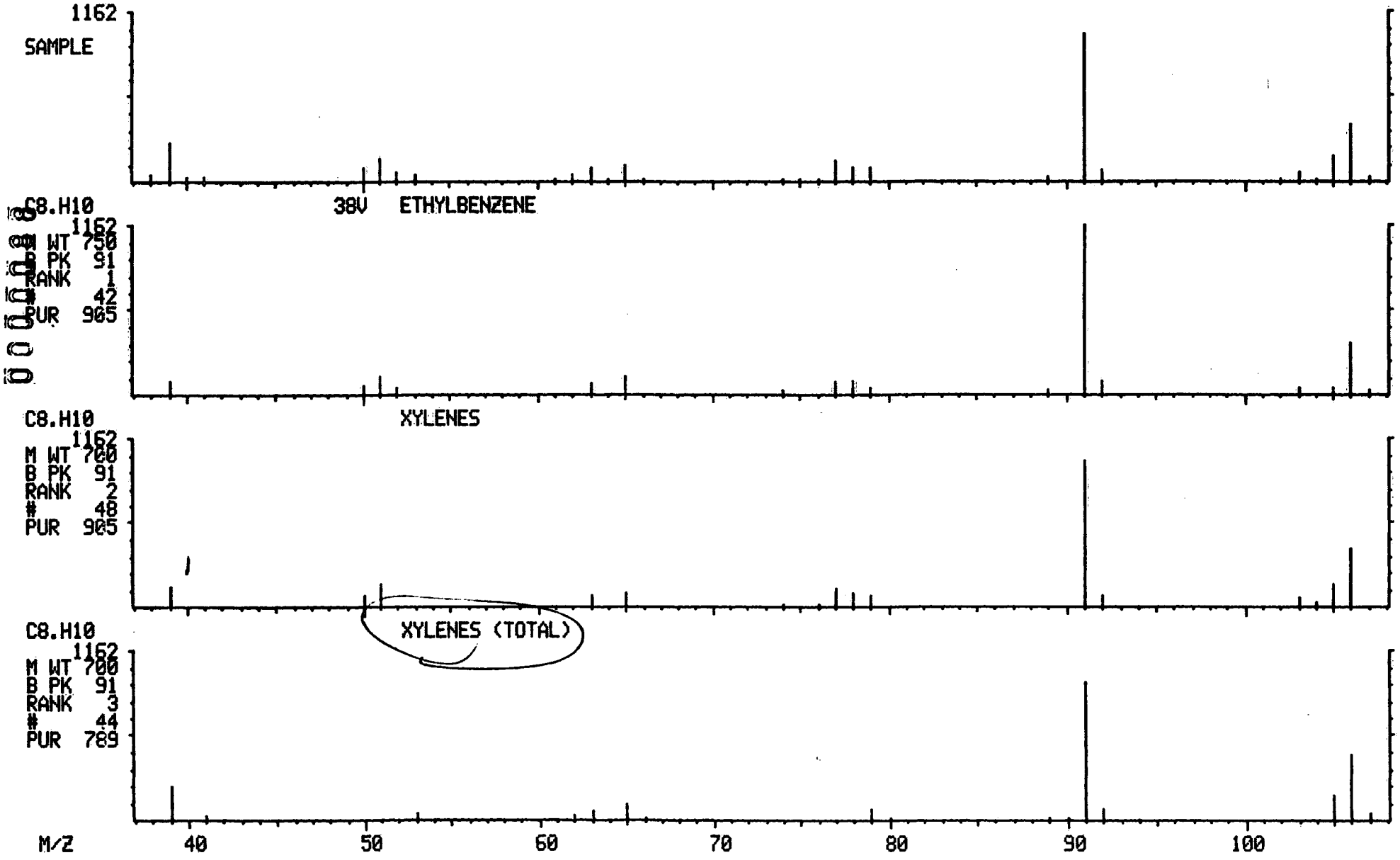


000087

LIBRARY SEARCH
04/13/92 18:53:00 + 31:20
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041313 # 940
CALI: W041313 # 2

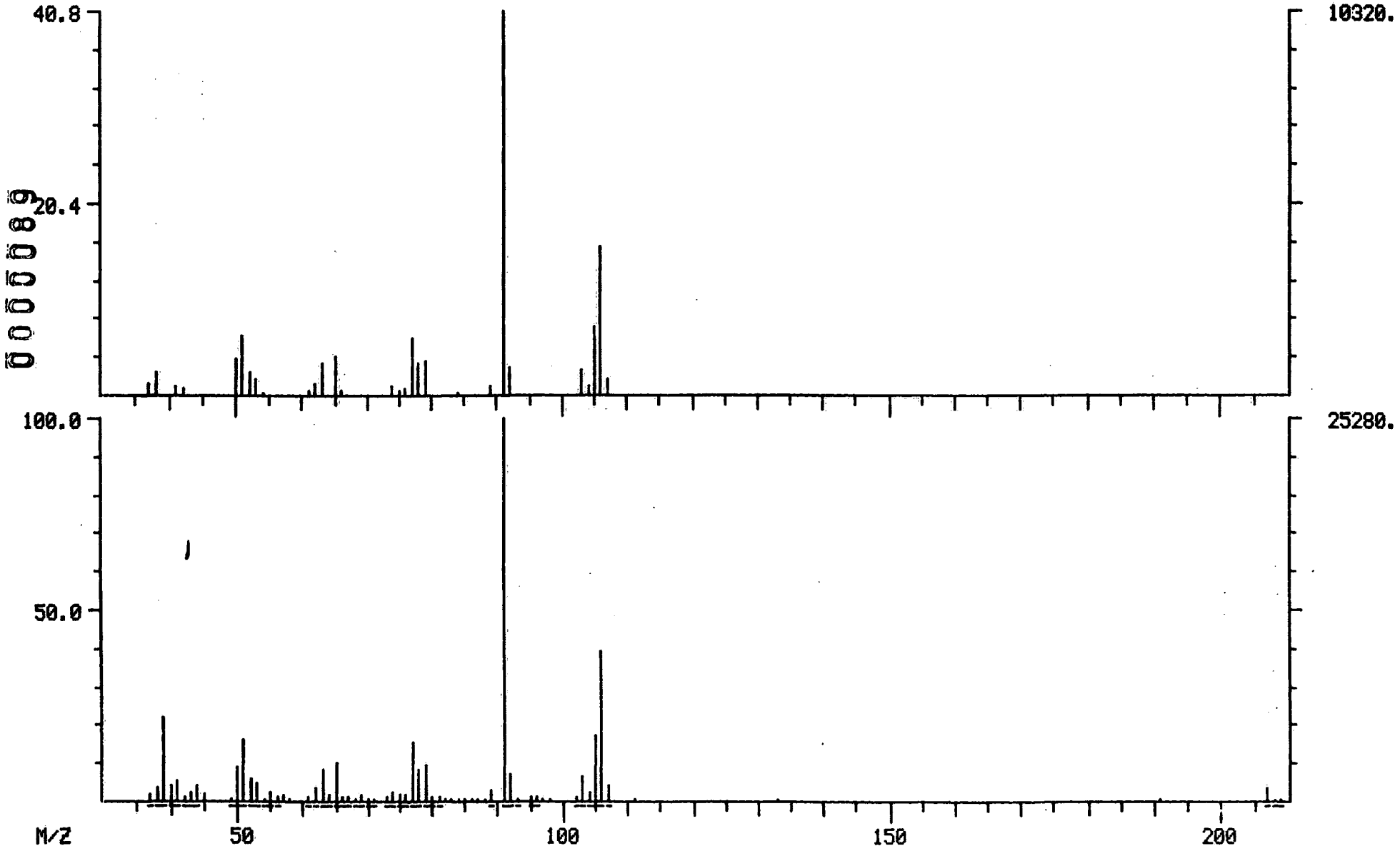
BASE M/Z: 91
RIC: 56063.



DUAL MASS SPECTRUM
04/13/92 18:53:00 + 32:28
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
GC TEMP: 215 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041313 #974
CALI: W041313 #2

BASE M/Z: 91/ 91
RIC: 30015./ 91135.

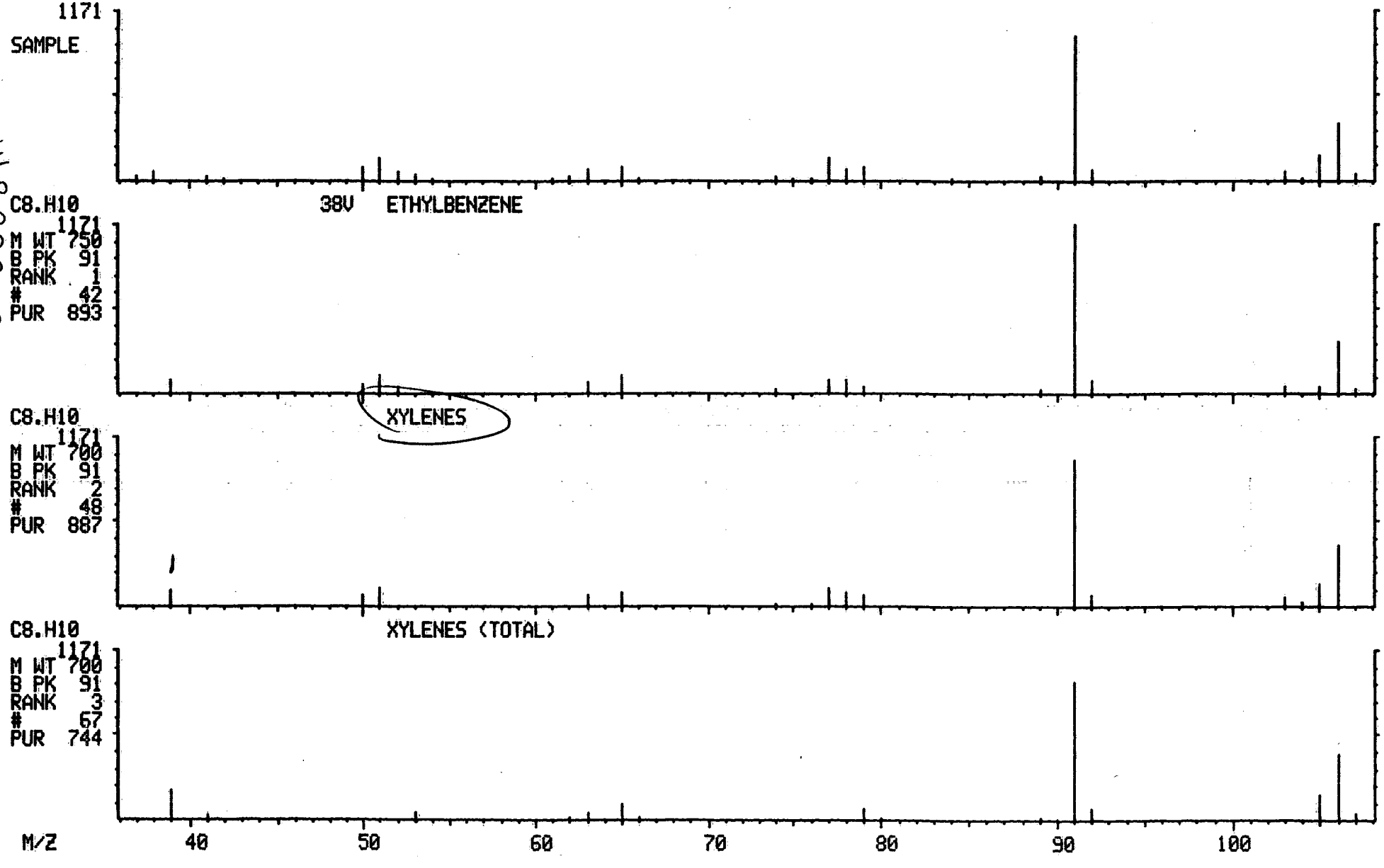


000089

LIBRARY SEARCH
04/13/92 18:53:00 + 32:28
SAMPLE: 9204L922-003 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041313 # 974
CALI: W041313 # 2

BASE M/Z: 91
RIC: 30015.



0000089A

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-5

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER Lab Sample ID: 9204L922-004

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W041011

Level: (low/med) LOW Date Received: 04/08/92

% Moisture: not dec. _____ Date Analyzed: 04/10/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-5

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9204L922-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041011

Level: (low/med) LOW

Date Received: 04/08/92

% Moisture: not dec. _____

Date Analyzed: 04/10/92

Column: (pack/cap) PACK

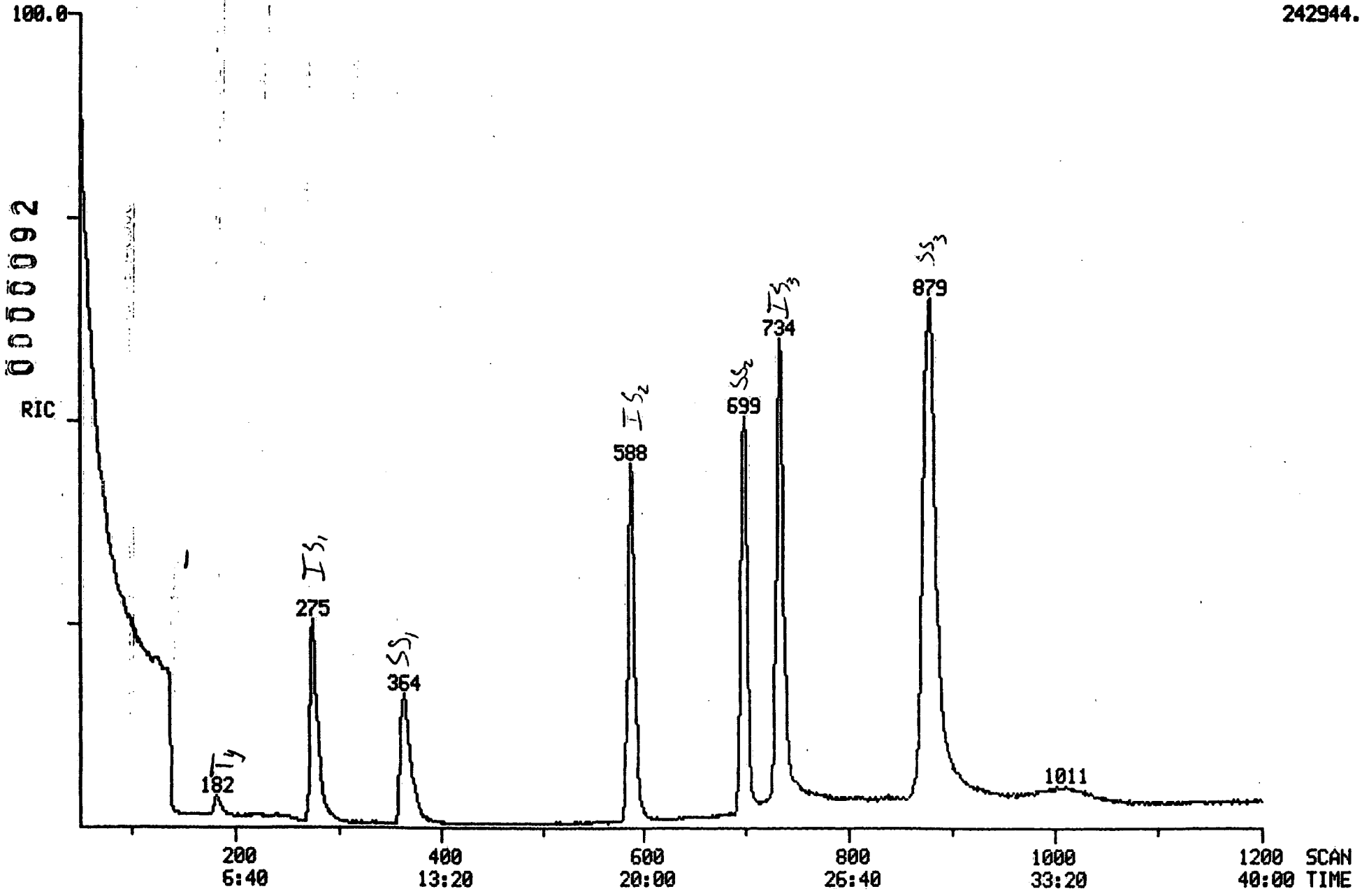
Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

RIC DATA: W041011 #1 SCANS 50 TO 1200
04/10/92 17:10:00 CALI: W041011 #2
SAMPLE: 9204L922-004 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: W041011 000093

Data: W041011.TI
04/10/92 17:10:00
Sample: 9204L922-004 WSI-LE CARPENTER 5.0 ML
Conds.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
Formula: W041001 Instrument: 1050W Weight: 0.014
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

0000094

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

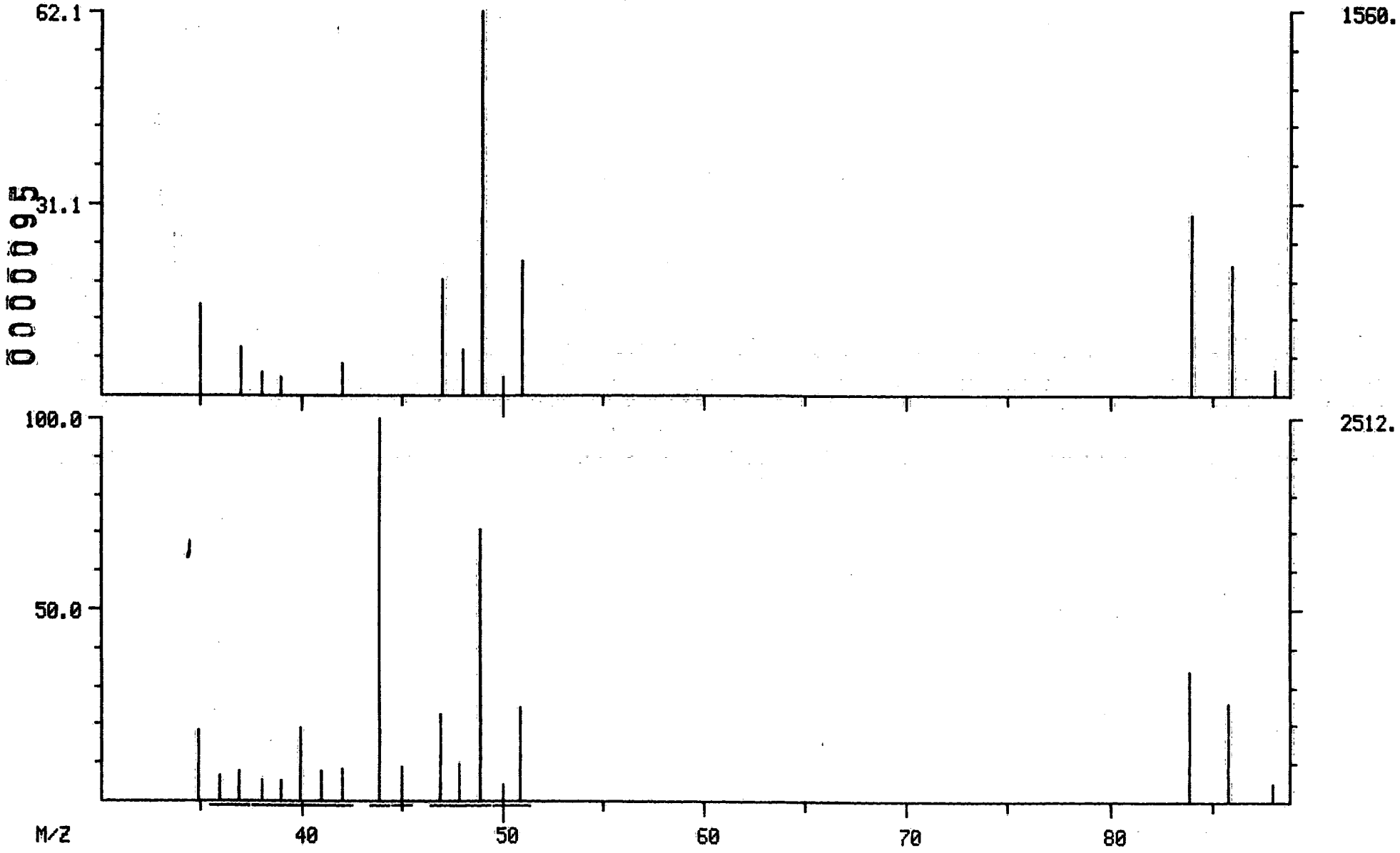
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	275	9:10	1	1.000	A BB	43797.	50.000 UG/L	16.37
2	65	364	12:08	1	1.324	A BB	149855.	48.875 UG/L	16.00
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	182	6:04	1	0.662	A BB	6656.	6.160 UG/L	2.02
8	43	220	7:20	1	0.800	A BB	1031.	1.214 UG/L	0.40 NT
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	83	337	11:14	1	1.225	A BB	210.	0.061 UG/L	0.02
17	NOT FOUND								
18	NOT FOUND								
19	114	588	19:36	19	1.000	A BB	237879.	50.000 UG/L	16.37
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	117	734	24:28	33	1.000	A BB	225055.	50.000 UG/L	16.37
34	98	699	23:18	33	0.952	A BB	236281.	49.488 UG/L	16.20
35	95	878	29:16	33	1.196	A BB	234617.	48.374 UG/L	15.84
36	NOT FOUND								
37	43	684	22:48	33	0.932	A BB	980.	1.298 UG/L	0.43 NT
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

JBd
4/30/92

DUAL MASS SPECTRUM
04/10/92 17:10:00 + 6:04
SAMPLE: 9204L922-004 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
GC TEMP: 72 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041011 #182
CALI: W041011 #2

BASE M/Z: 49/ 44
RIC: 5087./ 9615.

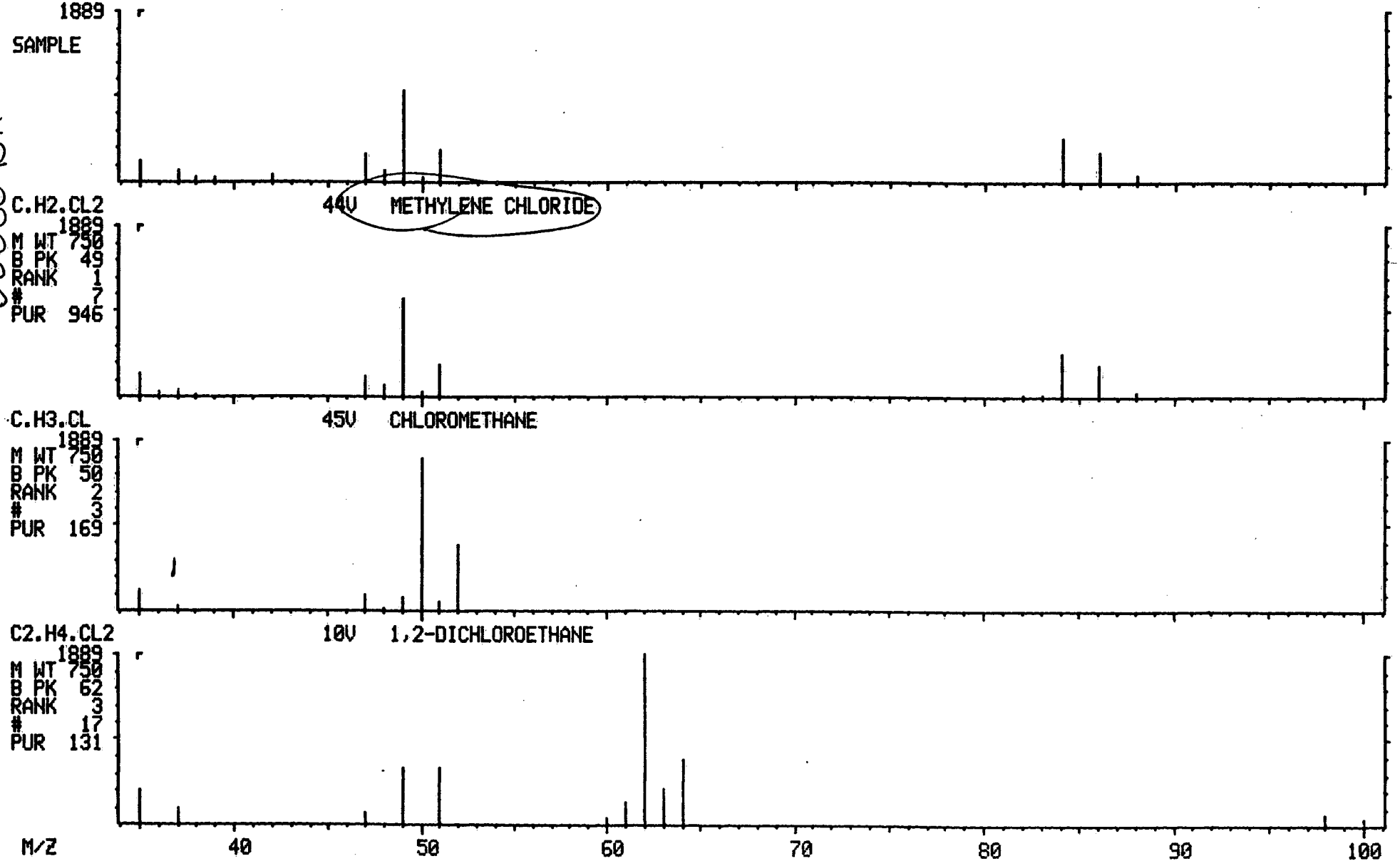


000009 5

LIBRARY SEARCH
04/10/92 17:10:00 + 6:04
SAMPLE: 9204L922-004 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041011 # 182
CALI: W041011 # 2

BASE M/Z: 49
RIC: 5087.



000095A

1A 0000096

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

FB

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER Lab Sample ID: 9204L922-005

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W041010

Level: (low/med) LOW Date Received: 04/08/92

% Moisture: not dec. _____ Date Analyzed: 04/10/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	11	B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	5	U

CLIENT SAMPLE NO.

FB

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9204L922-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041010

Level: (low/med) LOW

Date Received: 04/08/92

% Moisture: not dec. _____

Date Analyzed: 04/10/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

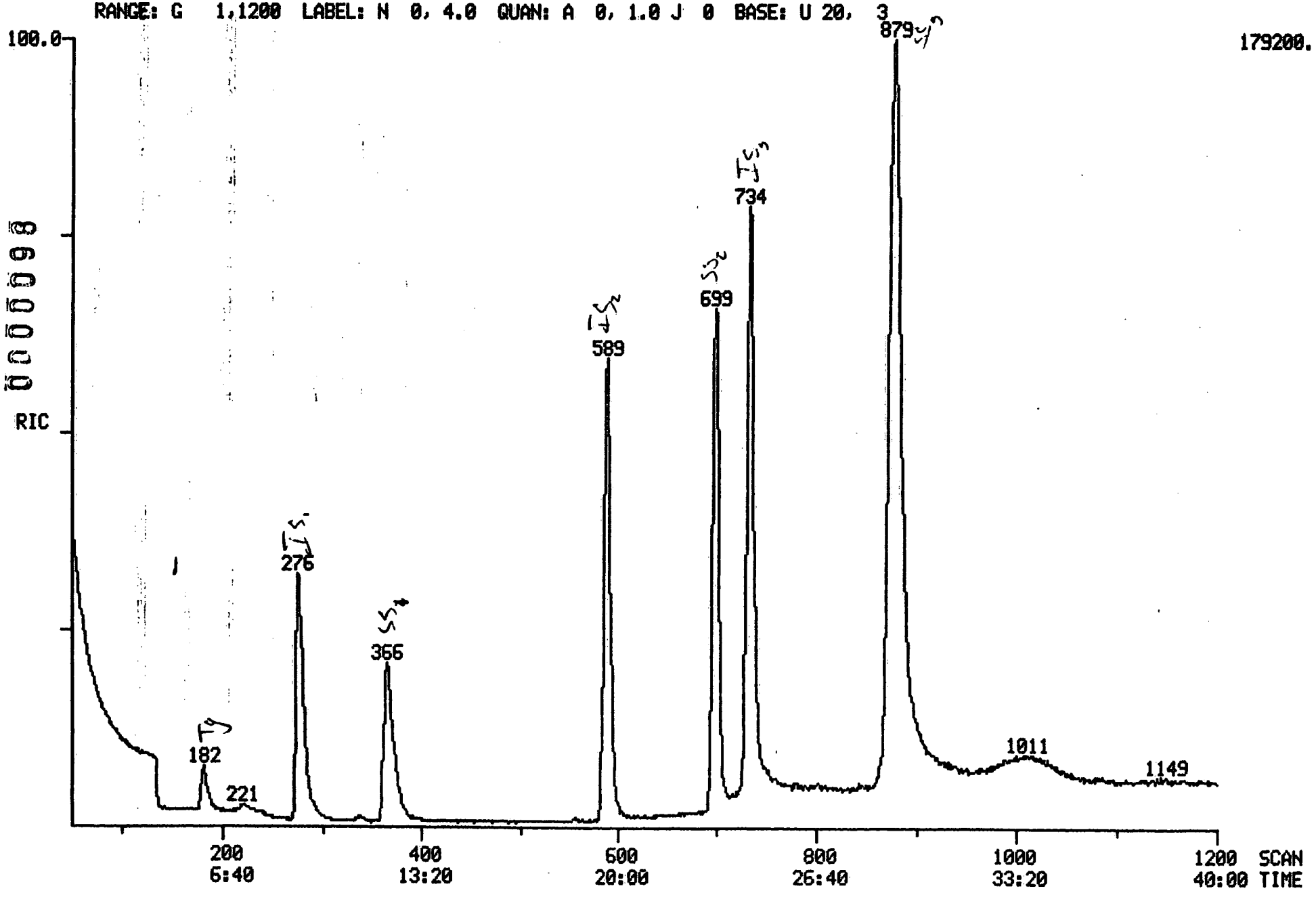
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

RIC
04/10/92 16:25:00
SAMPLE: 9204L922-005 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W041010 #1 SCANS 50 TO 1200
CALI: W041010 #2



Quantitation Report File: W041010 0000099

Data: W041010.TI
04/10/92 16:25:00
Sample: 9204L922-005 WSI-LE CARPENTER 5.0 ML
Conds.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
Formula: W041001 Instrument: 1050W Weight: 0.014
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

0000100

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

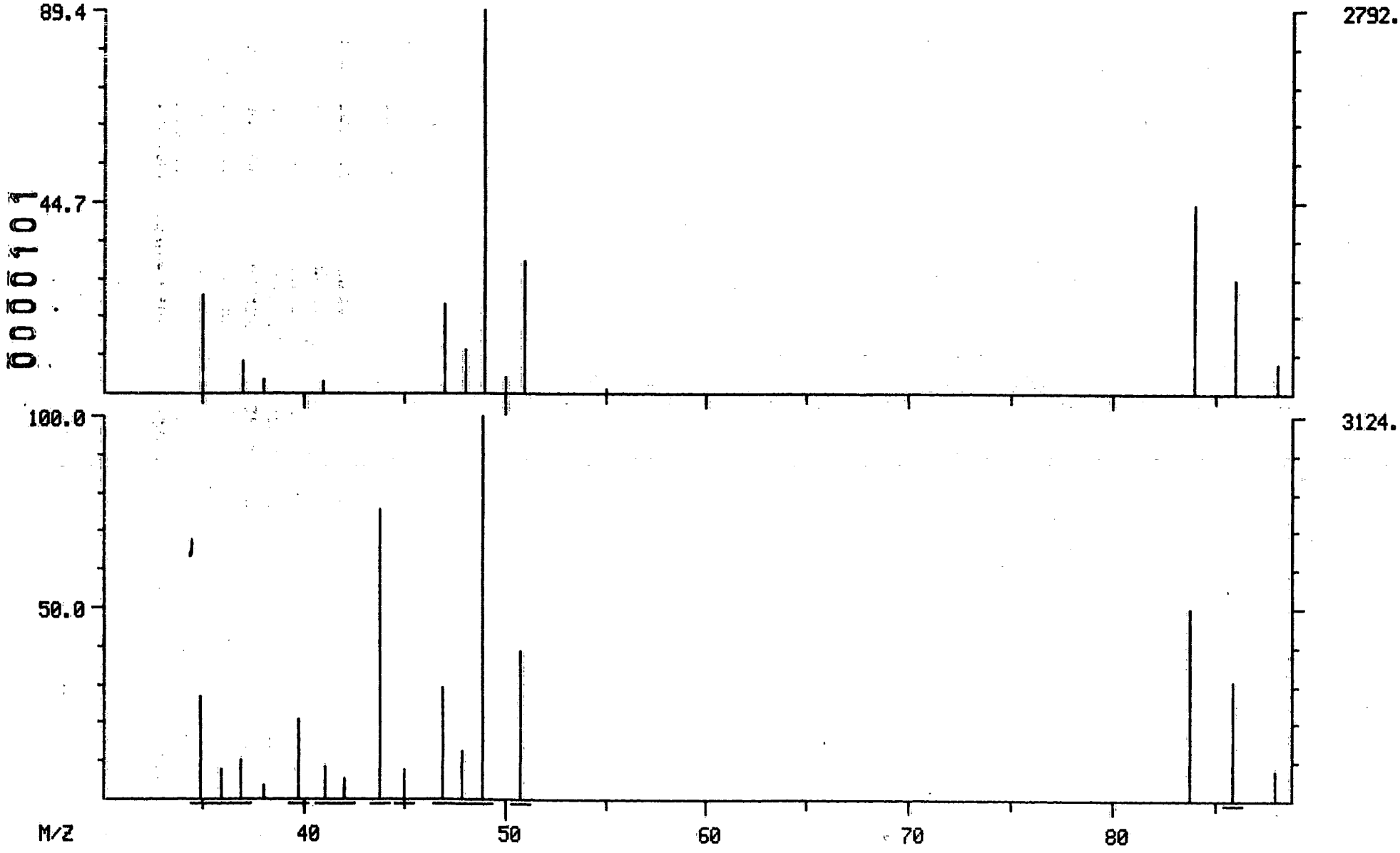
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	276	9:12	1	1.000	A BB	41882.	50.000 UG/L	14.99
2	65	366	12:12	1	1.326	A BB	142941.	48.752 UG/L	14.62
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	182	6:04	1	0.659	A BB	11337.	10.973 UG/L	3.29
8	43	222	7:24	1	0.804	A BB	12051.	14.833 UG/L	4.45 NT
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	83	340	11:20	1	1.232	A BB	1885.	0.577 UG/L	0.17
17	NOT FOUND								
18	NOT FOUND								
19	114	589	19:38	19	1.000	A BB	228431.	50.000 UG/L	14.99
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	117	734	24:28	33	1.000	A BB	215596.	50.000 UG/L	14.99
34	98	699	23:18	33	0.952	A BB	228982.	50.063 UG/L	15.01
35	95	879	29:18	33	1.198	A BB	258949.	55.734 UG/L	16.71
36	43	632	21:04	33	0.861	A VB	1038.	0.741 UG/L	0.22
37	43	683	22:46	33	0.931	A BB	1212.	1.676 UG/L	0.50 NT
38	NOT FOUND								
39	NOT FOUND								
40	92	706	23:32	33	0.962	A BB	527.	0.221 UG/L	0.07
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

JBS 4/30/92

DUAL MASS SPECTRUM
04/10/92 16:25:00 + 6:04
SAMPLE: 9204L922-005 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
GC TEMP: 72 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041010 #182
CALI: W041010 #2

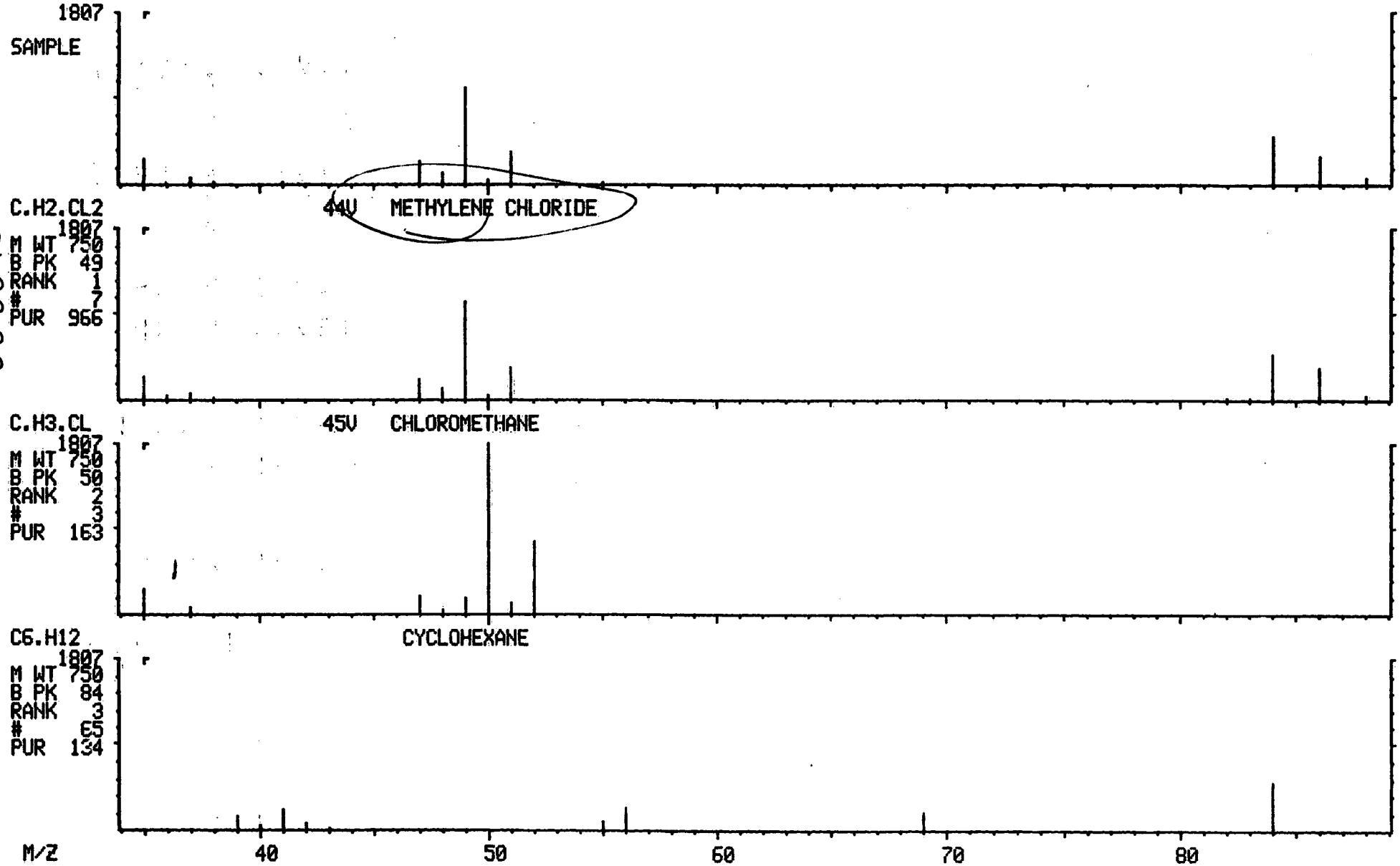
BASE M/Z: 49/ 49
RIC: 8431./ 13583.



LIBRARY SEARCH
04/10/92 16:25:00 + 6:04
SAMPLE: 9204L922-005 WSI-LE CARPENTER 5.0 ML
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041010 # 182
CALI: W041010 # 2

BASE M/Z: 49
RIC: 8431.



A101000

IV. Standards Data Package

A. Initial Calibration Data:

1. Form 6
2. Reconstructed Ion Chromatogram(s) and Quantitation Report(s)

B. Continuing Calibration Data

1. Form 7
2. Reconstructed Ion Chromatogram(s) and Quantitation Report(s)

C. Internal Standard Summary (Form 8) (if applicable)

6A

VOLATILE ORGANICS INTITIAL CALIBRATION DATA

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9204L922

Instrument ID: 1050W Calibration Date(s): 04/02/92 04/02/92

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

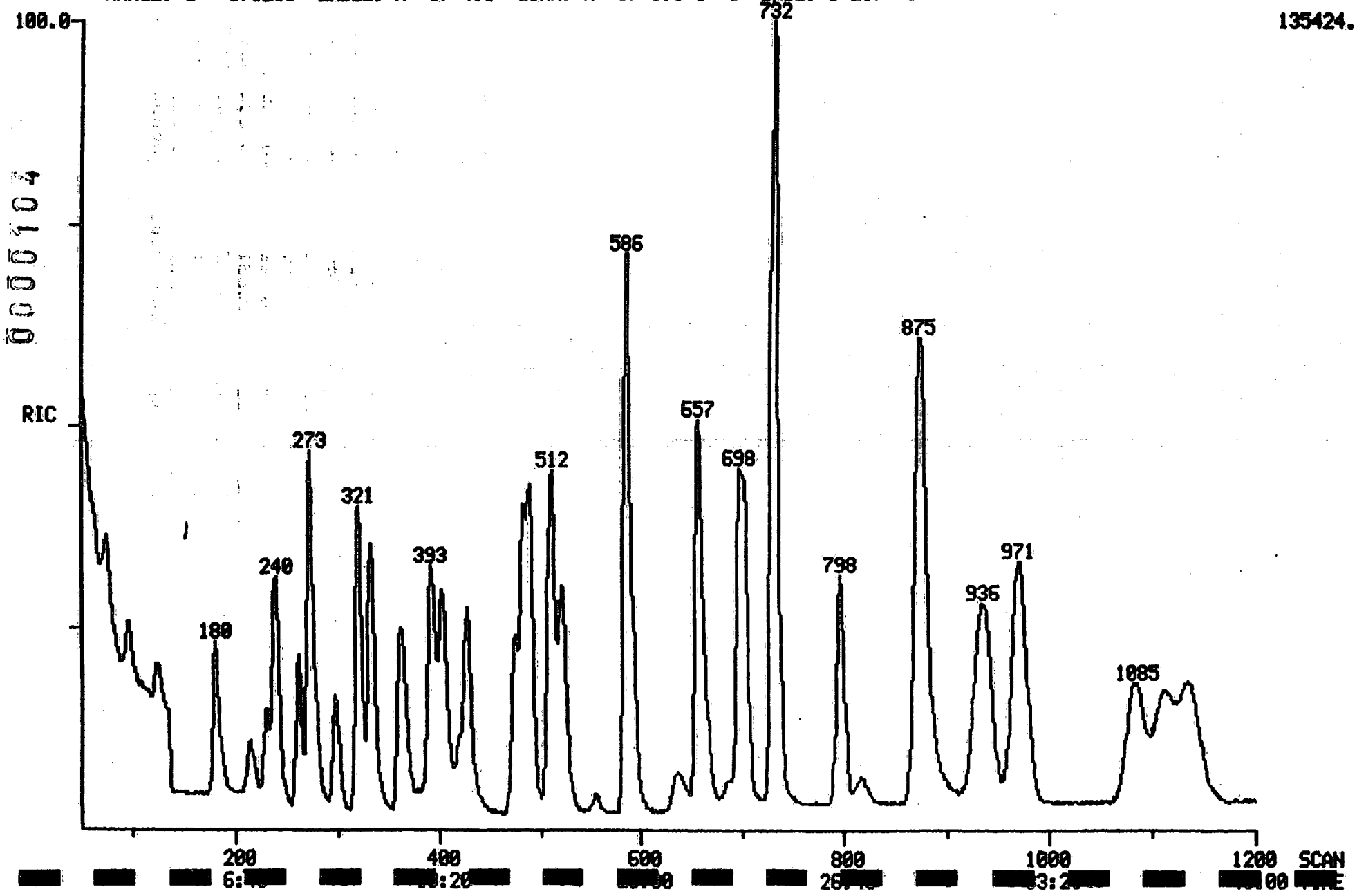
Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = W040207 RRF50 = W040208
RRF100= W040209 RRF150= W040210 RRF200= W040211

BLL 5/4/92

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	1.523	0.889	0.728	0.652	0.604	0.879	42.7#
Bromomethane	1.580	1.106	0.971	0.908	0.850	1.083	27.1
Vinyl Chloride *	1.665	1.246	1.088	1.060	0.978	1.207	22.7*
Chloroethane	1.028	0.728	0.646	0.648	0.627	0.735	22.9
Methylene Chloride	1.633	1.180	1.042	0.999	0.986	1.168	23.2
1,1-Dichloroethene *	1.471	1.230	1.095	1.051	1.028	1.175	15.6*
1,1-Dichloroethane #	3.181	2.806	2.722	2.642	2.650	2.800	8.0#
1,2-Dichloroethene (total)	1.614	1.356	1.292	1.237	1.237	1.347	11.7
Chloroform *	3.861	3.343	3.222	3.161	3.148	3.347	8.9*
1,2-Dichloroethane	3.174	2.814	2.649	2.639	2.691	2.793	8.0
1,1,1-Trichloroethane	0.715	0.658	0.649	0.640	0.669	0.666	4.4
Carbon Tetrachloride	0.746	0.636	0.630	0.635	0.660	0.661	7.4
Bromodichloromethane	0.939	0.770	0.764	0.788	0.829	0.818	8.8
1,2-Dichloropropane *	0.428	0.363	0.366	0.375	0.400	0.386	7.1*
cis-1,3-Dichloropropene	0.617	0.528	0.538	0.545	0.580	0.562	6.5
Trichloroethene	0.485	0.399	0.382	0.389	0.403	0.412	10.2
Dibromochloromethane	0.818	0.703	0.712	0.719	0.761	0.743	6.4
1,1,2-Trichloroethane	0.363	0.293	0.291	0.296	0.305	0.310	9.8
Benzene	1.021	0.838	0.817	0.806	0.819	0.860	10.5
Trans-1,3-Dichloropropene	0.513	0.434	0.514	0.534	0.565	0.512	9.5
2-chloroethylvinylether	0.054	.0080	0.141	0.169	0.187	0.112	69.1
Bromoform #	0.550	0.494	0.535	0.559	0.578	0.543	5.8#
Tetrachloroethene	0.619	0.510	0.466	0.463	0.431	0.498	14.7
1,1,2,2-Tetrachloroethane #	0.624	0.570	0.583	0.578	0.576	0.586	3.7#
Toluene *	0.792	0.660	0.613	0.611	0.592	0.654	12.4*
Chlorobenzene #	1.026	0.866	0.825	0.823	0.799	0.868	10.6#
Ethylbenzene *	0.487	0.394	0.378	0.381	0.377	0.403	11.7*
1,2-Dichlorobenzene	1.094	0.874	0.828	0.839	0.804	0.888	13.3
1,3-Dichlorobenzene	1.115	0.983	0.919	0.927	0.879	0.965	9.5
1,4-Dichlorobenzene	1.234	1.109	1.056	1.068	0.997	1.093	8.1
Acrolein		0.174	0.202	0.202	0.212	0.158	26.6
Acrylonitrile	0.495	0.348	0.320	0.310	0.305	0.356	22.4
Trichlorofluoromethane	4.739	3.970	3.597	3.482	3.314	3.820	14.8
Xylene (total)	0.519	0.420	0.408	0.407	0.394	0.430	11.8
Toluene-d8	1.402	1.086	1.135	1.118	1.061	1.160	11.9
Bromofluorobenzene	1.178	0.959	1.035	1.018	0.997	1.037	8.1
1,2-Dichloroethane-d4	3.158	2.663	2.809	2.685	2.687	2.800	7.4

RIC DATA: W040207 #1 SCANS 50 TO 1200
04/02/92 17:57:00 CALI: W040207 #2
SAMPLE: VSTD20 LOW WATER ICAL
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



000010 4

Quantitation Report File: W040207 0006105

Data: W040207.TI
04/02/92 17:57:00
Sample: VSTD20 LOW WATER ICAL
Conds.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
Formula: W040201 Instrument: 1050W Weight: 0.016
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

0000108

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	273	9:06	1	1.000	A BB	47818.	50.000 UG/L	4.42
2	65	362	12:04	1	1.326	A BB	60407.	20.000 UG/L	1.77
3	50	47	1:34	1	0.172	A BB	29139.	20.000 UG/L	1.77
4	94	75	2:30	1	0.275	A BB	30214.	20.000 UG/L	1.77
5	62	96	3:12	1	0.352	A BB	31840.	20.000 UG/L	1.77
6	64	124	4:08	1	0.454	A BB	19658.	20.000 UG/L	1.77
7	84	180	6:00	1	0.659	A BB	31233.	20.000 UG/L	1.77
8	43	215	7:10	1	0.788	A BB	54548.	20.000 UG/L	1.77
9	NOT	FOUND							
10	76	231	7:42	1	0.846	A BB	77862.	20.000 UG/L	1.77
11	101	240	8:00	1	0.879	A BB	90638.	20.000 UG/L	1.77
12	53	239	7:58	1	0.875	A BB	9476.	20.000 UG/L	1.77
13	96	262	8:44	1	0.960	A BB	28139.	20.000 UG/L	1.77
14	63	297	9:54	1	1.088	A BB	60835.	20.000 UG/L	1.77
15	96	320	10:40	1	1.172	A BB	61725.	40.000 UG/L	3.54
16	83	334	11:08	1	1.223	A BB	73851.	20.000 UG/L	1.77
17	62	365	12:10	1	1.337	A BB	60714.	20.000 UG/L	1.77
18	114	586	19:32	18	1.000	A BB	205786.	50.000 UG/L	4.42
19	72	383	12:46	1	1.403	A BB	3000.	20.000 UG/L	1.77
20	97	394	13:08	18	0.672	A BB	58837.	20.000 UG/L	1.77
21	117	404	13:28	18	0.689	A BB	61446.	20.000 UG/L	1.77
22	43	420	14:00	18	0.717	A BB	53630.	20.000 UG/L	1.77
23	83	428	14:16	18	0.730	A BB	77254.	20.000 UG/L	1.77
24	63	476	15:52	18	0.812	A BB	35246.	20.000 UG/L	1.77
25	75	484	16:08	18	0.826	A BB	82279.	32.400 UG/L	2.87
26	130	491	16:22	18	0.838	A BB	39906.	20.000 UG/L	1.77
27	129	513	17:06	18	0.875	A BB	67314.	20.000 UG/L	1.77
28	97	522	17:24	18	0.891	A BB	29863.	20.000 UG/L	1.77
29	78	509	16:58	18	0.869	A BB	84053.	20.000 UG/L	1.77
30	75	523	17:26	18	0.892	A BB	16039.	7.600 UG/L	0.67
31	63	556	18:32	18	0.949	A BB	4481.	20.000 UG/L	1.77
32	173	593	19:46	18	1.012	A BB	45254.	20.000 UG/L	1.77
33	117	731	24:22	33	1.000	A BB	177359.	50.000 UG/L	4.42
34	98	697	23:14	33	0.953	A BB	99451.	20.000 UG/L	1.77
35	95	875	29:10	33	1.197	A BB	83589.	20.000 UG/L	1.77
36	43	637	21:14	33	0.871	A BB	39991.	20.000 UG/L	1.77
37	43	687	22:54	33	0.940	A BV	12958.	20.000 UG/L	1.77
38	164	656	21:52	33	0.897	A BB	43932.	20.000 UG/L	1.77
39	83	662	22:04	33	0.906	A BB	44286.	20.000 UG/L	1.77
40	92	703	23:26	33	0.962	A BB	56187.	20.000 UG/L	1.77
41	112	735	24:30	33	1.005	A BB	72812.	20.000 UG/L	1.77
42	106	798	26:36	33	1.092	A BB	34572.	20.000 UG/L	1.77
43	104	931	31:02	33	1.274	A BB	52789.	20.000 UG/L	1.77
44	106	939	31:18	33	1.285	A BB	36801.	20.000 UG/L	1.77
45	146	1083	36:06	33	1.482	M XX	79109.	20.000 UG/L	1.77
46	146	1113	37:06	33	1.523	M XX	77632.	20.000 UG/L	1.77
47	146	1134	37:48	33	1.551	M XX	87510.	20.000 UG/L	1.77
48	106	971	32:22	33	1.328	A BB	66548.	40.000 UG/L	3.54
49	73	391	13:02	1	1.432	A BB	62716.	20.000 UG/L	1.77
50	59	333	11:06	1	1.220	A VB	29934.	20.000 UG/L	1.77

0000107

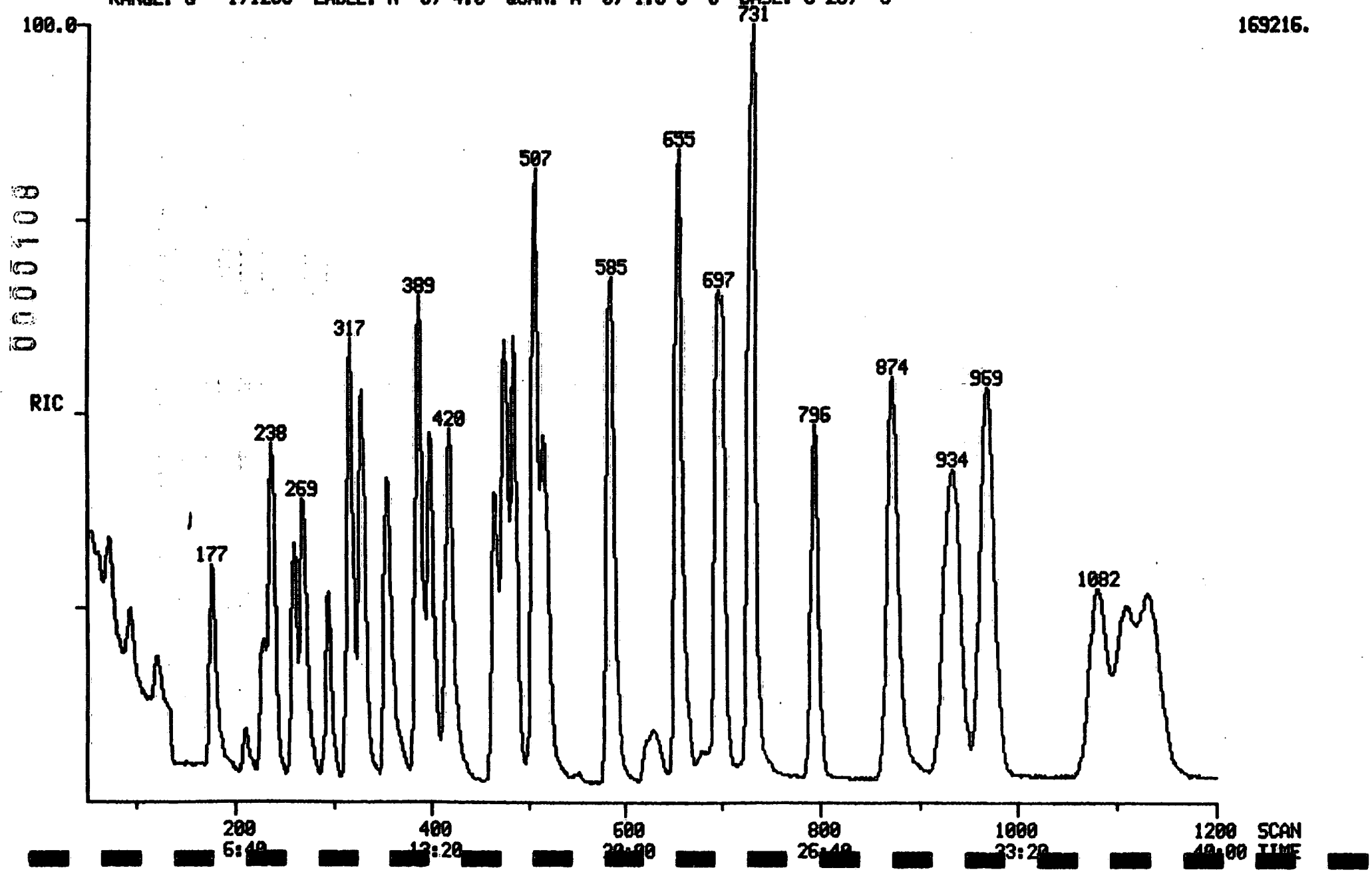
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:06	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	12:04	1.00	1.326	1.00	20.00	20.00	3.158	3.158	1.00
3	1:34	1.00	0.172	1.00	20.00	20.00	1.523	1.523	1.00
4	2:30	1.00	0.275	1.00	20.00	20.00	1.580	1.580	1.00
5	3:12	1.00	0.352	1.00	20.00	20.00	1.665	1.665	1.00
6	4:08	1.00	0.454	1.00	20.00	20.00	1.028	1.028	1.00
7	6:00	1.00	0.659	1.00	20.00	20.00	1.633	1.633	1.00
8	7:10	1.00	0.788	1.00	20.00	20.00	2.852	2.852	1.00
9	7:12		0.803						
10	7:42	1.00	0.846	1.00	20.00	20.00	4.071	4.071	1.00
11	8:00	1.00	0.879	1.00	20.00	20.00	4.739	4.739	1.00
12	7:58	1.00	0.875	1.00	20.00	20.00	0.495	0.495	1.00
13	8:44	1.00	0.960	1.00	20.00	20.00	1.471	1.471	1.00
14	9:54	1.00	1.088	1.00	20.00	20.00	3.181	3.181	1.00
15	10:40	1.00	1.172	1.00	40.00	40.00	1.614	1.614	1.00
16	11:08	1.00	1.223	1.00	20.00	20.00	3.861	3.861	1.00
17	12:10	1.00	1.337	1.00	20.00	20.00	3.174	3.174	1.00
18	19:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	12:46	1.00	1.403	1.00	20.00	20.00	0.157	0.157	1.00
20	13:08	1.00	0.672	1.00	20.00	20.00	0.715	0.715	1.00
21	13:28	1.00	0.689	1.00	20.00	20.00	0.746	0.746	1.00
22	14:00	1.00	0.717	1.00	20.00	20.00	0.652	0.652	1.00
23	14:16	1.00	0.730	1.00	20.00	20.00	0.939	0.939	1.00
24	15:52	1.00	0.812	1.00	20.00	20.00	0.428	0.428	1.00
25	16:08	1.00	0.826	1.00	32.40	32.40	0.617	0.617	1.00
26	16:22	1.00	0.838	1.00	20.00	20.00	0.485	0.485	1.00
27	17:06	1.00	0.875	1.00	20.00	20.00	0.818	0.818	1.00
28	17:24	1.00	0.891	1.00	20.00	20.00	0.363	0.363	1.00
29	16:58	1.00	0.869	1.00	20.00	20.00	1.021	1.021	1.00
30	17:26	1.00	0.892	1.00	7.60	7.60	0.513	0.513	1.00
31	18:32	1.00	0.949	1.00	20.00	20.00	0.054	0.054	1.00
32	19:46	1.00	1.012	1.00	20.00	20.00	0.550	0.550	1.00
33	24:22	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	23:14	1.00	0.953	1.00	20.00	20.00	1.402	1.402	1.00
35	29:10	1.00	1.197	1.00	20.00	20.00	1.178	1.178	1.00
36	21:14	1.00	0.871	1.00	20.00	20.00	0.564	0.564	1.00
37	22:54	1.00	0.940	1.00	20.00	20.00	0.183	0.183	1.00
38	21:52	1.00	0.897	1.00	20.00	20.00	0.619	0.619	1.00
39	22:04	1.00	0.906	1.00	20.00	20.00	0.624	0.624	1.00
40	23:26	1.00	0.962	1.00	20.00	20.00	0.792	0.792	1.00
41	24:30	1.00	1.005	1.00	20.00	20.00	1.026	1.026	1.00
42	26:36	1.00	1.092	1.00	20.00	20.00	0.487	0.487	1.00
43	31:02	1.00	1.274	1.00	20.00	20.00	0.744	0.744	1.00
44	31:18	1.00	1.285	1.00	20.00	20.00	0.519	0.519	1.00
45	36:06	1.00	1.482	1.00	20.00	20.00	1.115	1.115	1.00
46	37:06	1.00	1.523	1.00	20.00	20.00	1.094	1.094	1.00
47	37:48	1.00	1.551	1.00	20.00	20.00	1.234	1.234	1.00
48	32:22	1.00	1.328	1.00	40.00	40.00	0.469	0.469	1.00
49	13:02	1.00	1.432	1.00	20.00	20.00	3.279	3.279	1.00
50	11:06	1.00	1.220	1.00	20.00	20.00	1.565	1.565	1.00

BLK
SHAKE

RIC
04/02/92 18:42:00
SAMPLE: VSTD50 LOW WATER ICAL
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:12-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W040208 #1
CALI: W040208 #2

SCANS 50 TO 1200



000108

Quantitation Report File: W040208 0000109

Data: W040208.TI
04/02/92 18:42:00
Sample: VSTD50 LOW WATER ICAL
Conds.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
Formula: W040201 Instrument: 1050W Weight: 0.016
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	269	8:58	1	1.000	A BB	44279.	50.000 UG/L	1.89
2	65	355	11:50	1	1.320	A BB	117932.	50.000 UG/L	1.89
3	50	46	1:32	1	0.171	A BB	39372.	50.000 UG/L	1.89
4	94	73	2:26	1	0.271	A BB	48981.	50.000 UG/L	1.89
5	62	94	3:08	1	0.349	A BB	55158.	50.000 UG/L	1.89
6	64	121	4:02	1	0.450	A BB	32224.	50.000 UG/L	1.89
7	84	177	5:54	1	0.658	A BB	52239.	50.000 UG/L	1.89
8	43	211	7:02	1	0.784	A BB	43629.	50.000 UG/L	1.89
9	56	215	7:10	1	0.799	A BB	7697.	50.000 UG/L	1.89
10	76	229	7:38	1	0.851	A BB	150344.	50.000 UG/L	1.89
11	101	238	7:56	1	0.885	A BB	175797.	50.000 UG/L	1.89
12	53	234	7:48	1	0.870	A BB	15407.	50.000 UG/L	1.89
13	96	260	8:40	1	0.967	A BB	54482.	50.000 UG/L	1.89
14	63	295	9:50	1	1.097	A BB	124239.	50.000 UG/L	1.89
15	96	317	10:34	1	1.178	A BB	120105.	100.000 UG/L	3.77
16	83	328	10:56	1	1.219	A BB	148026.	50.000 UG/L	1.89
17	62	358	11:56	1	1.331	A BB	124610.	50.000 UG/L	1.89
18	114	584	19:28	18	1.000	A BB	199018.	50.000 UG/L	1.89
19	72	371	12:22	1	1.379	A BB	5199.	50.000 UG/L	1.89
20	97	389	12:58	18	0.666	A BB	130919.	50.000 UG/L	1.89
21	117	400	13:20	18	0.685	A VB	126586.	50.000 UG/L	1.89
22	43	416	13:52	18	0.712	A BV	121578.	50.000 UG/L	1.89
23	83	420	14:00	18	0.719	A BB	153332.	50.000 UG/L	1.89
24	63	466	15:32	18	0.798	A BB	72304.	50.000 UG/L	1.89
25	75	477	15:54	18	0.817	A BB	170277.	81.000 UG/L	3.06
26	130	486	16:12	18	0.832	A BB	79483.	50.000 UG/L	1.89
27	129	508	16:56	18	0.870	A BB	139875.	50.000 UG/L	1.89
28	97	516	17:12	18	0.884	A BB	58284.	50.000 UG/L	1.89
29	78	506	16:52	18	0.866	A BB	166816.	50.000 UG/L	1.89
30	75	518	17:16	18	0.887	A BB	32817.	19.000 UG/L	0.72
31	63	552	18:24	18	0.945	A BB	1522.	50.000 UG/L	1.89
32	173	588	19:36	18	1.007	A BB	98228.	50.000 UG/L	1.89
33	117	729	24:18	33	1.000	A BB	170923.	50.000 UG/L	1.89
34	98	696	23:12	33	0.955	A BB	185566.	50.000 UG/L	1.89
35	95	873	29:06	33	1.198	A BB	163951.	50.000 UG/L	1.89
36	43	629	20:58	33	0.863	A BB	69963.	50.000 UG/L	1.89
37	43	680	22:40	33	0.933	A BV	19571.	50.000 UG/L	1.89
38	164	654	21:48	33	0.897	A BB	87222.	50.000 UG/L	1.89
39	83	659	21:58	33	0.904	A BB	97488.	50.000 UG/L	1.89
40	92	701	23:22	33	0.962	A BB	112893.	50.000 UG/L	1.89
41	112	733	24:26	33	1.005	A BB	148016.	50.000 UG/L	1.89
42	106	795	26:30	33	1.091	A BB	67384.	50.000 UG/L	1.89
43	104	929	30:58	33	1.274	A BB	114961.	50.000 UG/L	1.89
44	106	938	31:16	33	1.287	A BB	71720.	50.000 UG/L	1.89
45	146	1081	36:02	33	1.483	M XX	168015.	50.000 UG/L	1.89
46	146	1109	36:58	33	1.521	M XX	149396.	50.000 UG/L	1.89
47	146	1132	37:44	33	1.553	M XX	189542.	50.000 UG/L	1.89
48	106	969	32:18	33	1.329	A BB	139118.	100.000 UG/L	3.77
49	73	387	12:54	1	1.439	A BB	130765.	50.000 UG/L	1.89
50	59	331	11:02	1	1.230	A VB	49642.	50.000 UG/L	1.89

0000111

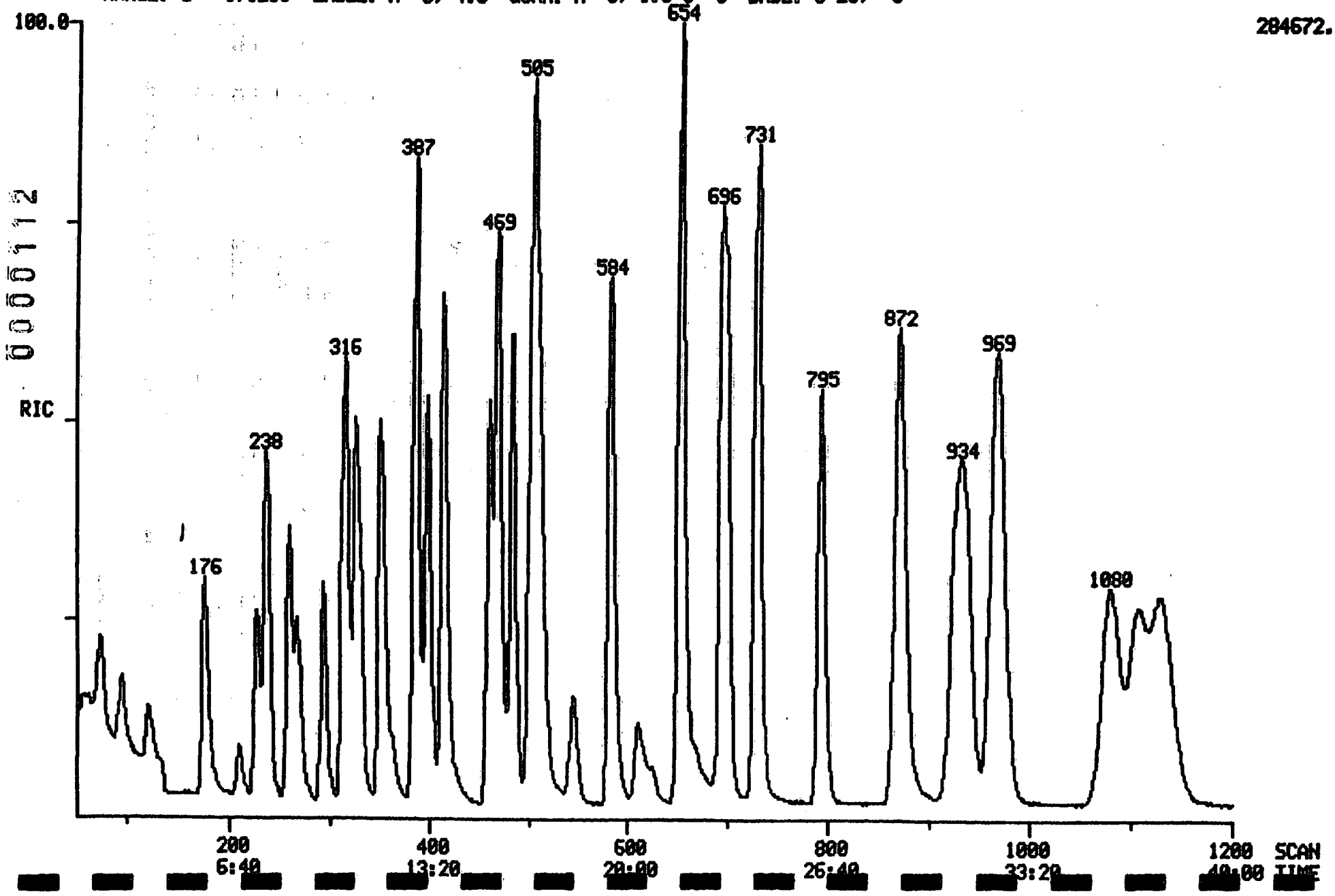
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:58	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	11:50	1.00	1.320	1.00	50.00	50.00	2.663	2.663	1.00
3	1:32	1.00	0.171	1.00	50.00	50.00	0.889	0.889	1.00
4	2:26	1.00	0.271	1.00	50.00	50.00	1.106	1.106	1.00
5	3:08	1.00	0.349	1.00	50.00	50.00	1.246	1.246	1.00
6	4:02	1.00	0.450	1.00	50.00	50.00	0.728	0.728	1.00
7	5:54	1.00	0.658	1.00	50.00	50.00	1.180	1.180	1.00
8	7:02	1.00	0.784	1.00	50.00	50.00	0.985	0.985	1.00
9	7:10	1.00	0.799	1.00	50.00	50.00	0.174	0.174	1.00
10	7:38	1.00	0.851	1.00	50.00	50.00	3.395	3.395	1.00
11	7:56	1.00	0.885	1.00	50.00	50.00	3.970	3.970	1.00
12	7:48	1.00	0.870	1.00	50.00	50.00	0.348	0.348	1.00
13	8:40	1.00	0.967	1.00	50.00	50.00	1.230	1.230	1.00
14	9:50	1.00	1.097	1.00	50.00	50.00	2.806	2.806	1.00
15	10:34	1.00	1.178	1.00	100.00	100.00	1.356	1.356	1.00
16	10:56	1.00	1.219	1.00	50.00	50.00	3.343	3.343	1.00
17	11:56	1.00	1.331	1.00	50.00	50.00	2.814	2.814	1.00
18	19:28	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	12:22	1.00	1.379	1.00	50.00	50.00	0.117	0.117	1.00
20	12:58	1.00	0.666	1.00	50.00	50.00	0.658	0.658	1.00
21	13:20	1.00	0.685	1.00	50.00	50.00	0.636	0.636	1.00
22	13:52	1.00	0.712	1.00	50.00	50.00	0.611	0.611	1.00
23	14:00	1.00	0.719	1.00	50.00	50.00	0.770	0.770	1.00
24	15:32	1.00	0.798	1.00	50.00	50.00	0.363	0.363	1.00
25	15:54	1.00	0.817	1.00	81.00	81.00	0.528	0.528	1.00
26	16:12	1.00	0.832	1.00	50.00	50.00	0.399	0.399	1.00
27	16:56	1.00	0.870	1.00	50.00	50.00	0.703	0.703	1.00
28	17:12	1.00	0.884	1.00	50.00	50.00	0.293	0.293	1.00
29	16:52	1.00	0.866	1.00	50.00	50.00	0.838	0.838	1.00
30	17:16	1.00	0.887	1.00	19.00	19.00	0.434	0.434	1.00
31	18:24	1.00	0.945	1.00	50.00	50.00	0.008	0.008	1.00
32	19:36	1.00	1.007	1.00	50.00	50.00	0.494	0.494	1.00
33	24:18	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	23:12	1.00	0.955	1.00	50.00	50.00	1.086	1.086	1.00
35	29:06	1.00	1.198	1.00	50.00	50.00	0.959	0.959	1.00
36	20:58	1.00	0.863	1.00	50.00	50.00	0.409	0.409	1.00
37	22:40	1.00	0.933	1.00	50.00	50.00	0.114	0.114	1.00
38	21:48	1.00	0.897	1.00	50.00	50.00	0.510	0.510	1.00
39	21:58	1.00	0.904	1.00	50.00	50.00	0.570	0.570	1.00
40	23:22	1.00	0.962	1.00	50.00	50.00	0.660	0.660	1.00
41	24:26	1.00	1.005	1.00	50.00	50.00	0.866	0.866	1.00
42	26:30	1.00	1.091	1.00	50.00	50.00	0.394	0.394	1.00
43	30:58	1.00	1.274	1.00	50.00	50.00	0.673	0.673	1.00
44	31:16	1.00	1.287	1.00	50.00	50.00	0.420	0.420	1.00
45	36:02	1.00	1.483	1.00	50.00	50.00	0.983	0.983	1.00
46	36:58	1.00	1.521	1.00	50.00	50.00	0.874	0.874	1.00
47	37:44	1.00	1.553	1.00	50.00	50.00	1.109	1.109	1.00
48	32:18	1.00	1.329	1.00	100.00	100.00	0.407	0.407	1.00
49	12:54	1.00	1.439	1.00	50.00	50.00	2.953	2.953	1.00
50	11:02	1.00	1.230	1.00	50.00	50.00	1.121	1.121	1.00

BLR 5/14/92

RIC
04/02/92 19:27:00
SAMPLE: VSTD100 LOW WATER ICAL
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W040209 #1
CALI: W040209 #2

SCANS 50 TO 1200



00001112

Quantitation Report File: W040207 0000113

Data: W040209.TI
04/02/92 19:27:00
Sample: VSTD100 LOW WATER ICAL
Conds.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
Formula: W040201 Instrument: 1050W Weight: 0.016
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	268	8:56	1	1.000	A BB	43608.	50.000	UG/L	0.97
2	65	351	11:42	1	1.310	A BB	245031.	100.000	UG/L	1.94
3	50	46	1:32	1	0.172	A BB	63525.	100.000	UG/L	1.94
4	94	73	2:26	1	0.272	A BB	84713.	100.000	UG/L	1.94
5	62	94	3:08	1	0.351	A BB	94912.	100.000	UG/L	1.94
6	64	121	4:02	1	0.451	A BB	56355.	100.000	UG/L	1.94
7	84	176	5:52	1	0.657	A BB	90837.	100.000	UG/L	1.94
8	43	210	7:00	1	0.784	A BV	59915.	100.000	UG/L	1.94
9	56	213	7:06	1	0.795	A BB	17631.	100.000	UG/L	1.94
10	76	228	7:36	1	0.851	A BB	289296.	100.000	UG/L	1.94
11	101	238	7:56	1	0.888	A BB	313677.	100.000	UG/L	1.94
12	53	230	7:40	1	0.858	A BB	27892.	100.000	UG/L	1.94
13	96	260	8:40	1	0.970	A BB	95544.	100.000	UG/L	1.94
14	63	294	9:48	1	1.097	A BB	237362.	100.000	UG/L	1.94
15	96	316	10:32	1	1.179	A BB	225327.	200.000	UG/L	3.88
16	83	326	10:52	1	1.216	A BB	281029.	100.000	UG/L	1.94
17	62	354	11:48	1	1.321	A BB	231077.	100.000	UG/L	1.94
18	114	583	19:26	18	1.000	A BB	193804.	50.000	UG/L	0.97
19	72	365	12:10	1	1.362	A BB	9527.	100.000	UG/L	1.94
20	97	388	12:56	18	0.666	A BB	251674.	100.000	UG/L	1.94
21	117	399	13:18	18	0.684	A VB	244276.	100.000	UG/L	1.94
22	43	415	13:50	18	0.712	A BB	271365.	100.000	UG/L	1.94
23	83	415	13:50	18	0.712	A BB	296247.	100.000	UG/L	1.94
24	63	461	15:22	18	0.791	A BB	141965.	100.000	UG/L	1.94
25	75	469	15:38	18	0.804	A BB	337605.	162.000	UG/L	3.15
26	130	484	16:08	18	0.830	A BB	147882.	100.000	UG/L	1.94
27	129	503	16:46	18	0.863	A BB	275873.	100.000	UG/L	1.94
28	97	511	17:02	18	0.877	A BB	112747.	100.000	UG/L	1.94
29	78	505	16:50	18	0.866	A BB	316686.	100.000	UG/L	1.94
30	75	512	17:04	18	0.878	A BB	75691.	38.000	UG/L	0.74
31	63	546	18:12	18	0.937	A BB	54519.	100.000	UG/L	1.94
32	173	584	19:28	18	1.002	A BB	207311.	100.000	UG/L	1.94
33	117	729	24:18	33	1.000	A BB	171605.	50.000	UG/L	0.97
34	98	695	23:10	33	0.953	A BB	389396.	100.000	UG/L	1.94
35	95	872	29:04	33	1.196	A BB	355291.	100.000	UG/L	1.94
36	43	611	20:22	33	0.838	A BB	161145.	100.000	UG/L	1.94
37	43	670	22:20	33	0.919	A BB	61750.	100.000	UG/L	1.94
38	164	653	21:46	33	0.896	A BB	159933.	100.000	UG/L	1.94
39	83	657	21:54	33	0.901	A BB	200020.	100.000	UG/L	1.94
40	92	701	23:22	33	0.962	A BB	210273.	100.000	UG/L	1.94
41	112	732	24:24	33	1.004	A BB	282996.	100.000	UG/L	1.94
42	106	795	26:30	33	1.091	A BB	129633.	100.000	UG/L	1.94
43	104	927	30:54	33	1.272	A BB	234872.	100.000	UG/L	1.94
44	106	937	31:14	33	1.285	A BB	140100.	100.000	UG/L	1.94
45	146	1078	35:56	33	1.479	M XX	315274.	100.000	UG/L	1.94
46	146	1109	36:58	33	1.521	M XX	284072.	100.000	UG/L	1.94
47	146	1131	37:42	33	1.551	M XX	362268.	100.000	UG/L	1.94
48	106	968	32:16	33	1.328	A BB	278762.	200.000	UG/L	3.88
49	73	387	12:54	1	1.444	A BB	258562.	100.000	UG/L	1.94
50	59	332	11:04	1	1.239	A BB	88909.	100.000	UG/L	1.94

0 0 0 0 1 1 5

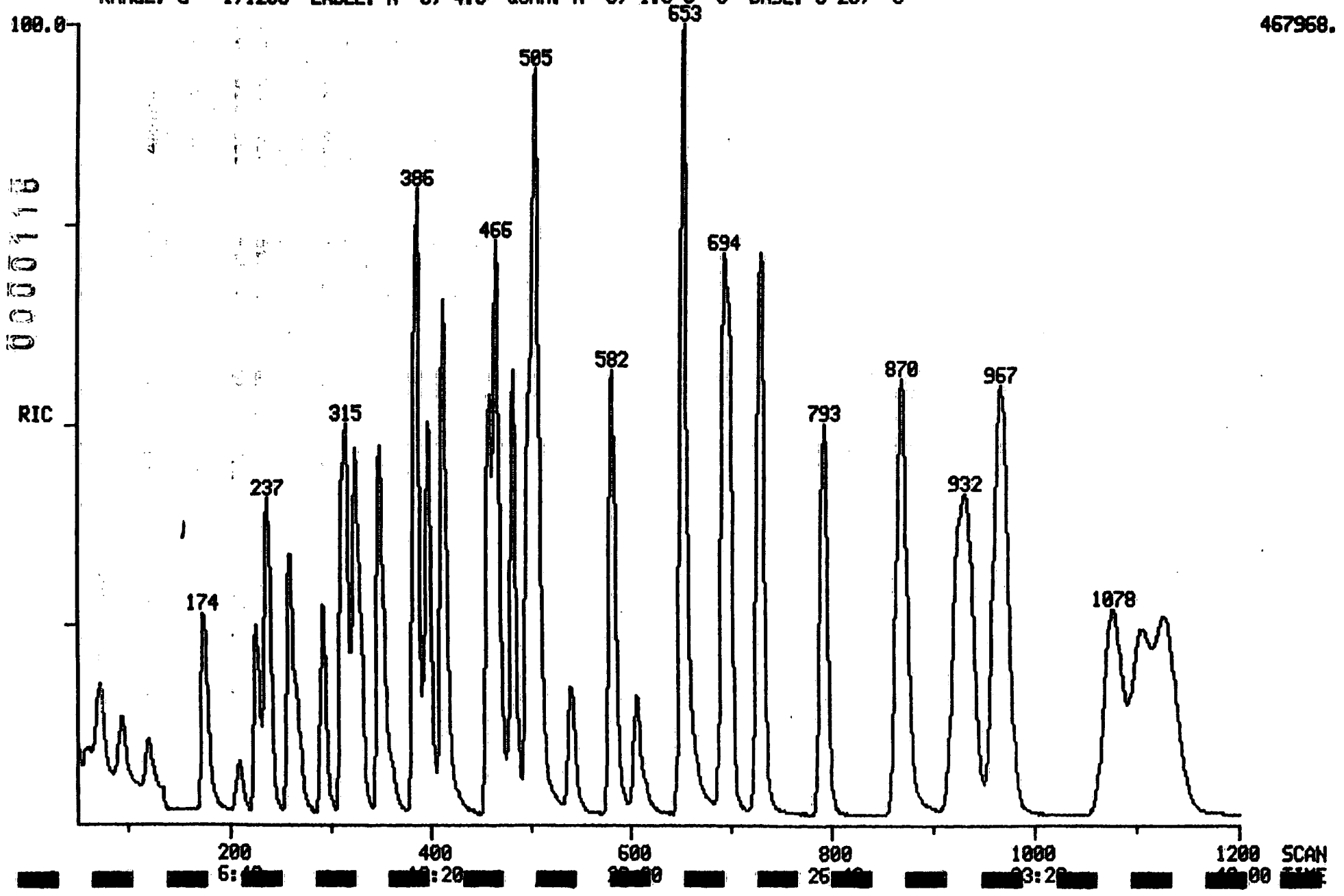
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:56	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	11:42	1.00	1.310	1.00	100.00	100.00	2.809	2.809	1.00
3	1:32	1.00	0.172	1.00	100.00	100.00	0.728	0.728	1.00
4	2:26	1.00	0.272	1.00	100.00	100.00	0.971	0.971	1.00
5	3:08	1.00	0.351	1.00	100.00	100.00	1.088	1.088	1.00
6	4:02	1.00	0.451	1.00	100.00	100.00	0.646	0.646	1.00
7	5:52	1.00	0.657	1.00	100.00	100.00	1.042	1.042	1.00
8	7:00	1.00	0.784	1.00	100.00	100.00	0.687	0.687	1.00
9	7:06	1.00	0.795	1.00	100.00	100.00	0.202	0.202	1.00
10	7:36	1.00	0.851	1.00	100.00	100.00	3.317	3.317	1.00
11	7:56	1.00	0.888	1.00	100.00	100.00	3.597	3.597	1.00
12	7:40	1.00	0.858	1.00	100.00	100.00	0.320	0.320	1.00
13	8:40	1.00	0.970	1.00	100.00	100.00	1.095	1.095	1.00
14	9:48	1.00	1.097	1.00	100.00	100.00	2.722	2.722	1.00
15	10:32	1.00	1.179	1.00	200.00	200.00	1.292	1.292	1.00
16	10:52	1.00	1.216	1.00	100.00	100.00	3.222	3.222	1.00
17	11:48	1.00	1.321	1.00	100.00	100.00	2.649	2.649	1.00
18	19:26	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	12:10	1.00	1.362	1.00	100.00	100.00	0.109	0.109	1.00
20	12:56	1.00	0.666	1.00	100.00	100.00	0.649	0.649	1.00
21	13:18	1.00	0.684	1.00	100.00	100.00	0.630	0.630	1.00
22	13:50	1.00	0.712	1.00	100.00	100.00	0.700	0.700	1.00
23	13:50	1.00	0.712	1.00	100.00	100.00	0.764	0.764	1.00
24	15:22	1.00	0.791	1.00	100.00	100.00	0.366	0.366	1.00
25	15:38	1.00	0.804	1.00	162.00	162.00	0.538	0.538	1.00
26	16:08	1.00	0.830	1.00	100.00	100.00	0.382	0.382	1.00
27	16:46	1.00	0.863	1.00	100.00	100.00	0.712	0.712	1.00
28	17:02	1.00	0.877	1.00	100.00	100.00	0.291	0.291	1.00
29	16:50	1.00	0.866	1.00	100.00	100.00	0.817	0.817	1.00
30	17:04	1.00	0.878	1.00	38.00	38.00	0.514	0.514	1.00
31	18:12	1.00	0.937	1.00	100.00	100.00	0.141	0.141	1.00
32	19:28	1.00	1.002	1.00	100.00	100.00	0.535	0.535	1.00
33	24:18	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	23:10	1.00	0.953	1.00	100.00	100.00	1.135	1.135	1.00
35	29:04	1.00	1.196	1.00	100.00	100.00	1.035	1.035	1.00
36	20:22	1.00	0.838	1.00	100.00	100.00	0.470	0.470	1.00
37	22:20	1.00	0.919	1.00	100.00	100.00	0.180	0.180	1.00
38	21:46	1.00	0.896	1.00	100.00	100.00	0.466	0.466	1.00
39	21:54	1.00	0.901	1.00	100.00	100.00	0.583	0.583	1.00
40	23:22	1.00	0.962	1.00	100.00	100.00	0.613	0.613	1.00
41	24:24	1.00	1.004	1.00	100.00	100.00	0.825	0.825	1.00
42	26:30	1.00	1.091	1.00	100.00	100.00	0.378	0.378	1.00
43	30:54	1.00	1.272	1.00	100.00	100.00	0.684	0.684	1.00
44	31:14	1.00	1.285	1.00	100.00	100.00	0.408	0.408	1.00
45	35:56	1.00	1.479	1.00	100.00	100.00	0.919	0.919	1.00
46	36:58	1.00	1.521	1.00	100.00	100.00	0.828	0.828	1.00
47	37:42	1.00	1.551	1.00	100.00	100.00	1.056	1.056	1.00
48	32:16	1.00	1.328	1.00	200.00	200.00	0.406	0.406	1.00
49	12:54	1.00	1.444	1.00	100.00	100.00	2.965	2.965	1.00
50	11:04	1.00	1.239	1.00	100.00	100.00	1.019	1.019	1.00

BLR 5/14/92

RIC
04/02/92 20:13:00
SAMPLE: VSTD150 LOW WATER ICAL
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:12-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W040210 #1
CALI: W040210 #2

SCANS 50 TO 1200



Quantitation Report File: W040210 0000117

Data: W040210.TI
04/02/92 20:13:00
Sample: VSTD150 LOW WATER ICAL
Cond.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
Formula: W040201 Instrument: 1050W Weight: 0.017
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

34

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

0000118

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	267	8:54	1	1.000	A BB	46079.	50.000 UG/L	0.65
2	65	349	11:38	1	1.307	A BB	371200.	150.000 UG/L	1.96
3	50	46	1:32	1	0.172	A BB	90127.	150.000 UG/L	1.96
4	94	73	2:26	1	0.273	A BB	125538.	150.000 UG/L	1.96
5	62	94	3:08	1	0.352	A BB	146474.	150.000 UG/L	1.96
6	64	120	4:00	1	0.449	A BB	89572.	150.000 UG/L	1.96
7	84	174	5:48	1	0.652	A BB	138055.	150.000 UG/L	1.96
8	43	208	6:56	1	0.779	A BB	81994.	150.000 UG/L	1.96
9	56	211	7:02	1	0.790	A BB	27964.	150.000 UG/L	1.96
10	76	226	7:32	1	0.846	A BB	448663.	150.000 UG/L	1.96
11	101	237	7:54	1	0.888	A BB	481274.	150.000 UG/L	1.96
12	53	226	7:32	1	0.846	A BB	42899.	150.000 UG/L	1.96
13	96	259	8:38	1	0.970	A BB	145327.	150.000 UG/L	1.96
14	63	292	9:44	1	1.094	A BB	365154.	150.000 UG/L	1.96
15	96	315	10:30	1	1.180	A BB	341967.	300.000 UG/L	3.92
16	83	325	10:50	1	1.217	A BB	436900.	150.000 UG/L	1.96
17	62	352	11:44	1	1.318	A BB	364790.	150.000 UG/L	1.96
18	114	582	19:24	18	1.000	A BB	200509.	50.000 UG/L	0.65
19	72	362	12:04	1	1.356	A BB	14984.	150.000 UG/L	1.96
20	97	387	12:54	18	0.665	A BB	385275.	150.000 UG/L	1.96
21	117	398	13:16	18	0.684	A VB	381990.	150.000 UG/L	1.96
22	43	413	13:46	18	0.710	A BB	445520.	150.000 UG/L	1.96
23	83	413	13:46	18	0.710	A BB	474221.	150.000 UG/L	1.96
24	63	459	15:18	18	0.789	A BB	225852.	150.000 UG/L	1.96
25	75	466	15:32	18	0.801	A BB	531285.	243.000 UG/L	3.18
26	130	483	16:06	18	0.830	A BV	234205.	150.000 UG/L	1.96
27	129	498	16:36	18	0.856	A BB	432766.	150.000 UG/L	1.96
28	97	505	16:50	18	0.868	A BB	178177.	150.000 UG/L	1.96
29	78	504	16:48	18	0.866	A BB	484580.	150.000 UG/L	1.96
30	75	508	16:56	18	0.873	A BB	122068.	57.000 UG/L	0.75
31	63	542	18:04	18	0.931	A BB	101410.	150.000 UG/L	1.96
32	173	582	19:24	18	1.000	A BB	336039.	150.000 UG/L	1.96
33	117	727	24:14	33	1.000	A BB	177380.	50.000 UG/L	0.65
34	98	693	23:06	33	0.953	A BB	594901.	150.000 UG/L	1.96
35	95	870	29:00	33	1.197	A BB	541633.	150.000 UG/L	1.96
36	43	606	20:12	33	0.834	A BB	256560.	150.000 UG/L	1.96
37	43	664	22:08	33	0.913	A BB	112778.	150.000 UG/L	1.96
38	164	652	21:44	33	0.897	A BB	246412.	150.000 UG/L	1.96
39	83	654	21:48	33	0.900	A BB	307438.	150.000 UG/L	1.96
40	92	699	23:18	33	0.961	A BB	325103.	150.000 UG/L	1.96
41	112	731	24:22	33	1.006	A BB	438145.	150.000 UG/L	1.96
42	106	793	26:26	33	1.091	A BB	202784.	150.000 UG/L	1.96
43	104	926	30:52	33	1.274	A BB	368473.	150.000 UG/L	1.96
44	106	936	31:12	33	1.287	A BB	216655.	150.000 UG/L	1.96
45	146	1078	35:56	33	1.483	M XX	493214.	150.000 UG/L	1.96
46	146	1106	36:52	33	1.521	M XX	446544.	150.000 UG/L	1.96
47	146	1126	37:32	33	1.549	M XX	568274.	150.000 UG/L	1.96
48	106	967	32:14	33	1.330	A BB	424032.	300.000 UG/L	3.92
49	73	386	12:52	1	1.446	A BB	387513.	150.000 UG/L	1.96
50	59	331	11:02	1	1.240	A BB	135537.	150.000 UG/L	1.96

0000119

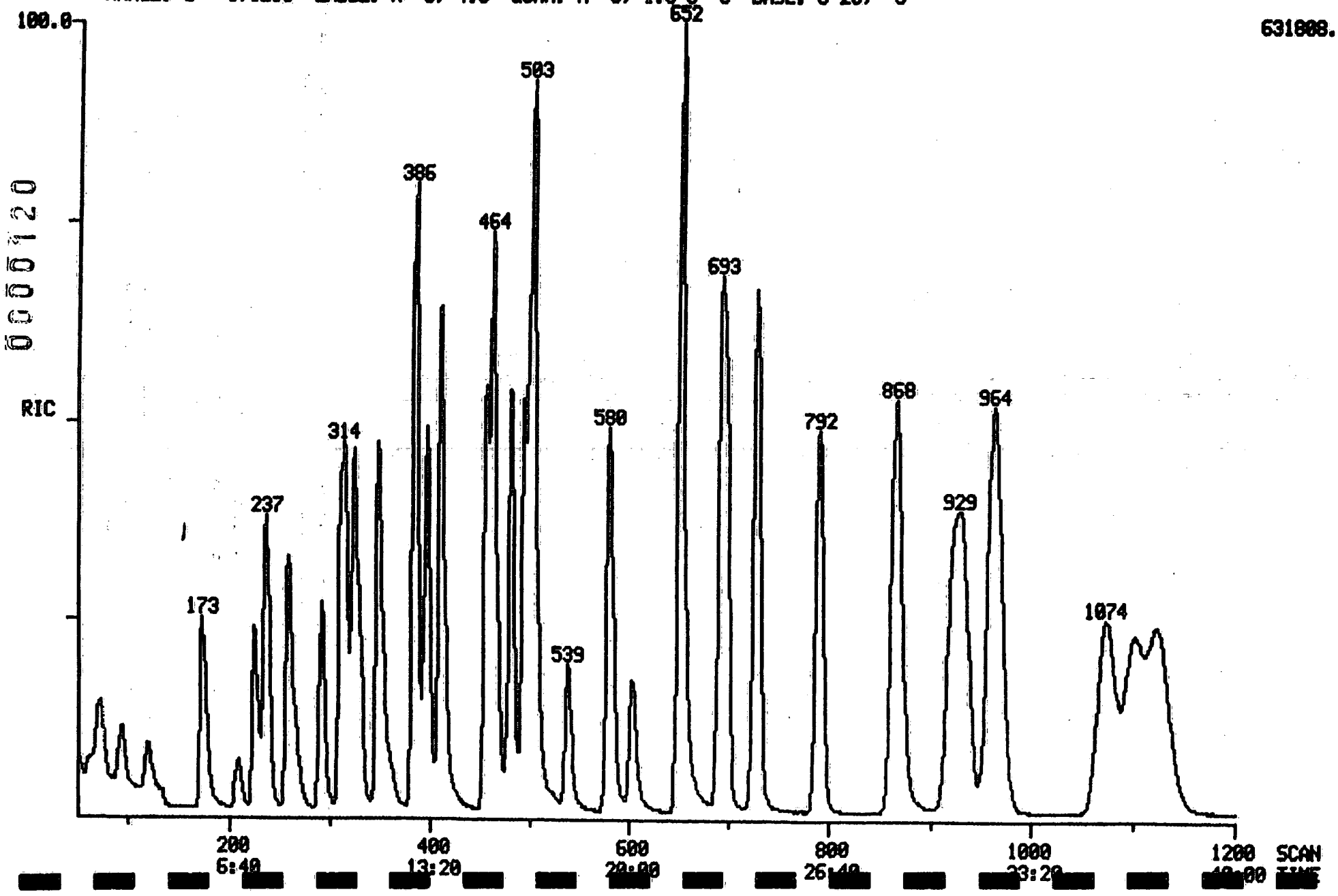
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:54	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	11:38	1.00	1.307	1.00	150.00	150.00	2.685	2.685	1.00
3	1:32	1.00	0.172	1.00	150.00	150.00	0.652	0.652	1.00
4	2:26	1.00	0.273	1.00	150.00	150.00	0.908	0.908	1.00
5	3:08	1.00	0.352	1.00	150.00	150.00	1.060	1.060	1.00
6	4:00	1.00	0.449	1.00	150.00	150.00	0.648	0.648	1.00
7	5:48	1.00	0.652	1.00	150.00	150.00	0.999	0.999	1.00
8	6:56	1.00	0.779	1.00	150.00	150.00	0.593	0.593	1.00
9	7:02	1.00	0.790	1.00	150.00	150.00	0.202	0.202	1.00
10	7:32	1.00	0.846	1.00	150.00	150.00	3.246	3.246	1.00
11	7:54	1.00	0.888	1.00	150.00	150.00	3.482	3.482	1.00
12	7:32	1.00	0.846	1.00	150.00	150.00	0.310	0.310	1.00
13	8:38	1.00	0.970	1.00	150.00	150.00	1.051	1.051	1.00
14	9:44	1.00	1.094	1.00	150.00	150.00	2.642	2.642	1.00
15	10:30	1.00	1.180	1.00	300.00	300.00	1.237	1.237	1.00
16	10:50	1.00	1.217	1.00	150.00	150.00	3.161	3.161	1.00
17	11:44	1.00	1.318	1.00	150.00	150.00	2.639	2.639	1.00
18	19:24	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	12:04	1.00	1.356	1.00	150.00	150.00	0.108	0.108	1.00
20	12:54	1.00	0.665	1.00	150.00	150.00	0.640	0.640	1.00
21	13:16	1.00	0.684	1.00	150.00	150.00	0.635	0.635	1.00
22	13:46	1.00	0.710	1.00	150.00	150.00	0.741	0.741	1.00
23	13:46	1.00	0.710	1.00	150.00	150.00	0.788	0.788	1.00
24	15:18	1.00	0.789	1.00	150.00	150.00	0.375	0.375	1.00
25	15:32	1.00	0.801	1.00	243.00	243.00	0.545	0.545	1.00
26	16:06	1.00	0.830	1.00	150.00	150.00	0.389	0.389	1.00
27	16:36	1.00	0.856	1.00	150.00	150.00	0.719	0.719	1.00
28	16:50	1.00	0.868	1.00	150.00	150.00	0.296	0.296	1.00
29	16:48	1.00	0.866	1.00	150.00	150.00	0.806	0.806	1.00
30	16:56	1.00	0.873	1.00	57.00	57.00	0.534	0.534	1.00
31	18:04	1.00	0.931	1.00	150.00	150.00	0.169	0.169	1.00
32	19:24	1.00	1.000	1.00	150.00	150.00	0.559	0.559	1.00
33	24:14	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	23:06	1.00	0.953	1.00	150.00	150.00	1.118	1.118	1.00
35	29:00	1.00	1.197	1.00	150.00	150.00	1.018	1.018	1.00
36	20:12	1.00	0.834	1.00	150.00	150.00	0.482	0.482	1.00
37	22:08	1.00	0.913	1.00	150.00	150.00	0.212	0.212	1.00
38	21:44	1.00	0.897	1.00	150.00	150.00	0.463	0.463	1.00
39	21:48	1.00	0.900	1.00	150.00	150.00	0.578	0.578	1.00
40	23:18	1.00	0.961	1.00	150.00	150.00	0.611	0.611	1.00
41	24:22	1.00	1.006	1.00	150.00	150.00	0.823	0.823	1.00
42	26:26	1.00	1.091	1.00	150.00	150.00	0.381	0.381	1.00
43	30:52	1.00	1.274	1.00	150.00	150.00	0.692	0.692	1.00
44	31:12	1.00	1.287	1.00	150.00	150.00	0.407	0.407	1.00
45	35:56	1.00	1.483	1.00	150.00	150.00	0.927	0.927	1.00
46	36:52	1.00	1.521	1.00	150.00	150.00	0.839	0.839	1.00
47	37:32	1.00	1.549	1.00	150.00	150.00	1.068	1.068	1.00
48	32:14	1.00	1.330	1.00	300.00	300.00	0.398	0.398	1.00
49	12:52	1.00	1.446	1.00	150.00	150.00	2.803	2.803	1.00
50	11:02	1.00	1.240	1.00	150.00	150.00	0.980	0.980	1.00

BKR 5/14/92

RIC
04/02/92 20:58:00
SAMPLE: VSTD200 LOW WATER ICAL
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W040211 #1
CALI: W040211 #2

SCANS 50 TO 1200



000120

Quantitation Report File: W040211 0000121

Data: W040211.TI
04/02/92 20:58:00
Sample: VSTD200 LOW WATER ICAL
Conds.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
Formula: W040201 Instrument: 1050W Weight: 0.017
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	266	8:52	1	1.000	A BB	45953.	50.000	UG/L	0.49
2	65	348	11:36	1	1.308	A BB	493814.	200.000	UG/L	1.97
3	50	46	1:32	1	0.173	A BV	111072.	200.000	UG/L	1.97
4	94	72	2:24	1	0.271	A BB	156316.	200.000	UG/L	1.97
5	62	93	3:06	1	0.350	A BB	179749.	200.000	UG/L	1.97
6	64	120	4:00	1	0.451	A BB	115248.	200.000	UG/L	1.97
7	84	173	5:46	1	0.650	A BB	181179.	200.000	UG/L	1.97
8	43	207	6:54	1	0.778	A VB	107663.	200.000	UG/L	1.97
9	56	210	7:00	1	0.789	A BB	38912.	200.000	UG/L	1.97
10	76	225	7:30	1	0.846	A BB	581960.	200.000	UG/L	1.97
11	101	237	7:54	1	0.891	A BB	609196.	200.000	UG/L	1.97
12	53	225	7:30	1	0.846	A BB	56077.	200.000	UG/L	1.97
13	96	259	8:38	1	0.974	A BB	188956.	200.000	UG/L	1.97
14	63	292	9:44	1	1.098	A BB	487076.	200.000	UG/L	1.97
15	96	314	10:28	1	1.180	A BB	454805.	400.001	UG/L	3.94
16	83	324	10:48	1	1.218	A BB	578568.	200.000	UG/L	1.97
17	62	351	11:42	1	1.320	A BB	494721.	200.000	UG/L	1.97
18	114	581	19:22	18	1.000	A BB	193601.	50.000	UG/L	0.49
19	72	362	12:04	1	1.361	A BB	21164.	200.000	UG/L	1.97
20	97	386	12:52	18	0.664	A BB	517931.	200.000	UG/L	1.97
21	117	398	13:16	18	0.685	A VB	511352.	200.000	UG/L	1.97
22	43	412	13:44	18	0.709	A BB	633386.	200.000	UG/L	1.97
23	83	411	13:42	18	0.707	A BB	642336.	200.000	UG/L	1.97
24	63	458	15:16	18	0.788	A BB	309851.	200.000	UG/L	1.97
25	75	464	15:28	18	0.799	A BB	727023.	324.000	UG/L	3.19
26	130	482	16:04	18	0.830	A BB	311893.	200.000	UG/L	1.97
27	129	495	16:30	18	0.852	A BB	589511.	200.000	UG/L	1.97
28	97	502	16:44	18	0.864	A BB	236498.	200.000	UG/L	1.97
29	78	504	16:48	18	0.867	A BB	634614.	200.000	UG/L	1.97
30	75	505	16:50	18	0.869	A BB	166261.	76.000	UG/L	0.75
31	63	539	17:58	18	0.928	A BB	144944.	200.000	UG/L	1.97
32	173	579	19:18	18	0.997	A BB	447802.	200.000	UG/L	1.97
33	117	726	24:12	33	1.000	A BB	180038.	50.000	UG/L	0.49
34	98	692	23:04	33	0.953	A BB	764202.	200.000	UG/L	1.97
35	95	868	28:56	33	1.196	A BB	717842.	200.000	UG/L	1.97
36	43	603	20:06	33	0.831	A BB	374902.	200.000	UG/L	1.97
37	43	657	21:54	33	0.905	A BB	160132.	200.000	UG/L	1.97
38	164	651	21:42	33	0.897	A BB	310578.	200.000	UG/L	1.97
39	83	653	21:46	33	0.899	A BB	414946.	200.000	UG/L	1.97
40	92	698	23:16	33	0.961	A BB	426437.	200.000	UG/L	1.97
41	112	729	24:18	33	1.004	A BB	575090.	200.000	UG/L	1.97
42	106	792	26:24	33	1.091	A BB	271723.	200.000	UG/L	1.97
43	104	922	30:44	33	1.270	A BB	491311.	200.000	UG/L	1.97
44	106	932	31:04	33	1.284	A BB	284005.	200.000	UG/L	1.97
45	146	1075	35:50	33	1.481	M XX	633001.	200.000	UG/L	1.97
46	146	1104	36:48	33	1.521	M XX	579008.	200.000	UG/L	1.97
47	146	1124	37:28	33	1.548	M XX	718154.	200.000	UG/L	1.97
48	106	963	32:06	33	1.326	A BB	554996.	400.000	UG/L	3.94
49	73	385	12:50	1	1.447	A BB	520877.	200.000	UG/L	1.97
50	59	330	11:00	1	1.241	A BB	184248.	200.000	UG/L	1.97

0000123

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:52	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	11:36	1.00	1.308	1.00	200.00	200.00	2.687	2.687	1.00
3	1:32	1.00	0.173	1.00	200.00	200.00	0.604	0.604	1.00
4	2:24	1.00	0.271	1.00	200.00	200.00	0.850	0.850	1.00
5	3:06	1.00	0.350	1.00	200.00	200.00	0.978	0.978	1.00
6	4:00	1.00	0.451	1.00	200.00	200.00	0.627	0.627	1.00
7	5:46	1.00	0.650	1.00	200.00	200.00	0.986	0.986	1.00
8	6:54	1.00	0.778	1.00	200.00	200.00	0.586	0.586	1.00
9	7:00	1.00	0.789	1.00	200.00	200.00	0.212	0.212	1.00
10	7:30	1.00	0.846	1.00	200.00	200.00	3.166	3.166	1.00
11	7:54	1.00	0.891	1.00	200.00	200.00	3.314	3.314	1.00
12	7:30	1.00	0.846	1.00	200.00	200.00	0.305	0.305	1.00
13	8:38	1.00	0.974	1.00	200.00	200.00	1.028	1.028	1.00
14	9:44	1.00	1.098	1.00	200.00	200.00	2.650	2.650	1.00
15	10:28	1.00	1.180	1.00	400.00	400.00	1.237	1.237	1.00
16	10:48	1.00	1.218	1.00	200.00	200.00	3.148	3.148	1.00
17	11:42	1.00	1.320	1.00	200.00	200.00	2.691	2.691	1.00
18	19:22	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	12:04	1.00	1.361	1.00	200.00	200.00	0.115	0.115	1.00
20	12:52	1.00	0.664	1.00	200.00	200.00	0.669	0.669	1.00
21	13:16	1.00	0.685	1.00	200.00	200.00	0.660	0.660	1.00
22	13:44	1.00	0.709	1.00	200.00	200.00	0.818	0.818	1.00
23	13:42	1.00	0.707	1.00	200.00	200.00	0.829	0.829	1.00
24	15:16	1.00	0.788	1.00	200.00	200.00	0.400	0.400	1.00
25	15:28	1.00	0.799	1.00	324.00	324.00	0.580	0.580	1.00
26	16:04	1.00	0.830	1.00	200.00	200.00	0.403	0.403	1.00
27	16:30	1.00	0.852	1.00	200.00	200.00	0.761	0.761	1.00
28	16:44	1.00	0.864	1.00	200.00	200.00	0.305	0.305	1.00
29	16:48	1.00	0.867	1.00	200.00	200.00	0.819	0.819	1.00
30	16:50	1.00	0.869	1.00	76.00	76.00	0.565	0.565	1.00
31	17:58	1.00	0.928	1.00	200.00	200.00	0.187	0.187	1.00
32	19:18	1.00	0.997	1.00	200.00	200.00	0.578	0.578	1.00
33	24:12	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	23:04	1.00	0.953	1.00	200.00	200.00	1.061	1.061	1.00
35	28:56	1.00	1.196	1.00	200.00	200.00	0.997	0.997	1.00
36	20:06	1.00	0.831	1.00	200.00	200.00	0.521	0.521	1.00
37	21:54	1.00	0.905	1.00	200.00	200.00	0.222	0.222	1.00
38	21:42	1.00	0.897	1.00	200.00	200.00	0.431	0.431	1.00
39	21:46	1.00	0.899	1.00	200.00	200.00	0.576	0.576	1.00
40	23:16	1.00	0.961	1.00	200.00	200.00	0.592	0.592	1.00
41	24:18	1.00	1.004	1.00	200.00	200.00	0.799	0.799	1.00
42	26:24	1.00	1.091	1.00	200.00	200.00	0.377	0.377	1.00
43	30:44	1.00	1.270	1.00	200.00	200.00	0.682	0.682	1.00
44	31:04	1.00	1.284	1.00	200.00	200.00	0.394	0.394	1.00
45	35:50	1.00	1.481	1.00	200.00	200.00	0.879	0.879	1.00
46	36:48	1.00	1.521	1.00	200.00	200.00	0.804	0.804	1.00
47	37:28	1.00	1.548	1.00	200.00	200.00	0.997	0.997	1.00
48	32:06	1.00	1.326	1.00	400.00	400.00	0.385	0.385	1.00
49	12:50	1.00	1.447	1.00	200.00	200.00	2.834	2.834	1.00
50	11:00	1.00	1.241	1.00	200.00	200.00	1.002	1.002	1.00

BLK
94Pm

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9204L922

Instrument ID: 1050W Calibration Date: 04/10/92 Time: 1006

Lab File ID: W041002 Init. Calib. Date(s): 04/02/92 04/02/92

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

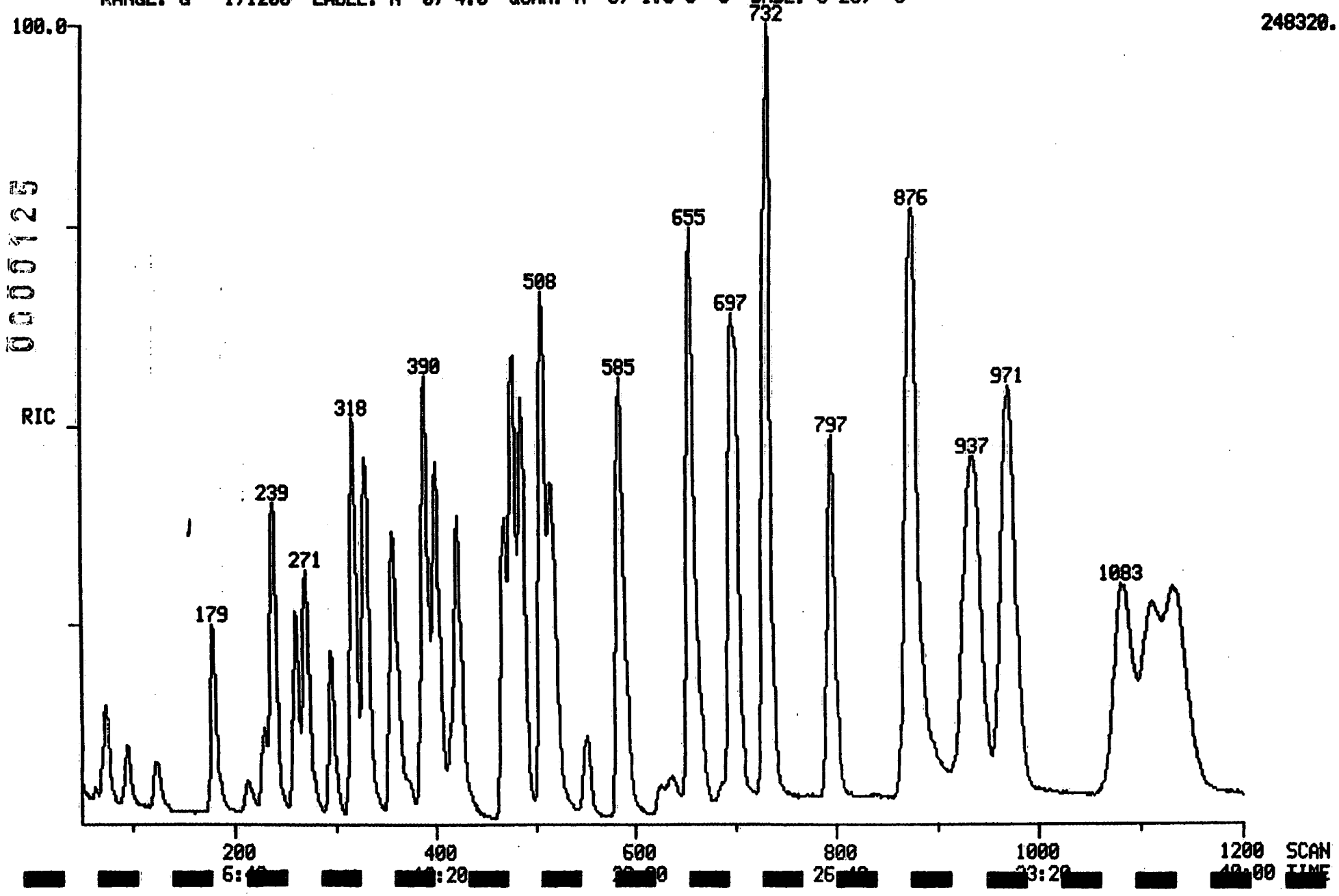
COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.879	0.998	-13.5	#
Bromomethane		1.083	1.357	-25.3	
Vinyl Chloride	*	1.207	1.218	-0.9	*
Chloroethane		0.735	0.765	-4.1	
Methylene Chloride		1.168	1.233	-5.6	
1,1-Dichloroethene	*	1.175	1.089	7.3	*
1,1-Dichloroethane	#	2.800	2.991	-6.8	#
1,2-Dichloroethene (total)		1.347	1.445	-7.3	
Chloroform	*	3.347	3.903	-16.6	*
1,2-Dichloroethane		2.793	3.676	-31.6	
1,1,1-Trichloroethane		0.666	0.665	0.2	
Carbon Tetrachloride		0.661	0.692	-4.7	
Bromodichloromethane		0.818	0.747	8.7	
1,2-Dichloropropane	*	0.386	0.344	10.9	*
cis-1,3-Dichloropropene		0.562	0.495	11.9	
Trichloroethene		0.412	0.387	6.1	
Dibromochloromethane		0.743	0.617	17.0	
1,1,2-Trichloroethane		0.310	0.286	7.7	
Benzene		0.860	0.730	15.1	
Trans-1,3-Dichloropropene		0.512	0.433	15.4	
2-chloroethylvinylether		0.112	0.123	-9.8	
Bromoform	#	0.543	0.334	38.5	#
Tetrachloroethene		0.498	0.454	8.8	
1,1,2,2-Tetrachloroethane	#	0.586	0.462	21.2	#
Toluene	*	0.654	0.553	15.4	*
Chlorobenzene	#	0.868	0.838	3.5	#
Ethylbenzene	*	0.403	0.381	5.5	*
1,2-Dichlorobenzene		0.888	0.899	-1.2	
1,3-Dichlorobenzene		0.965	1.006	-4.2	
1,4-Dichlorobenzene		1.093	1.200	-9.8	
Acrolein		0.158	0.128	19.0	
Acrylonitrile		0.356	0.310	12.9	
Trichlorofluoromethane		3.820	4.619	-20.9	
Xylene (total)		0.430	0.422	1.9	
Toluene-d8		1.160	1.061	8.5	
Bromofluorobenzene		1.037	1.078	-4.0	
1,2-Dichloroethane-d4		2.800	3.500	-25.0	

BKR 5/14/92

RIC
04/10/92 10:06:00
SAMPLE: VSTD50 LOW WATER CCL
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W041002 #1
CALI: W041002 #2

SCANS 50 TO 1200



000125

Quantitation Report File: W041002 0000126

Data: W041002.TI
04/10/92 10:06:00
Sample: VSTD50 LOW WATER CCL
Conds.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
Formula: W041001 Instrument: 1050W Weight: 0.012
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	271	9:02	1	1.000	A BB	49387.	50.000 UG/L	1.89
2	65	357	11:54	1	1.317	A BB	172870.	50.000 UG/L	1.89
3	50	47	1:34	1	0.173	A BB	49300.	50.000 UG/L	1.89
4	94	74	2:28	1	0.273	A BB	67003.	50.000 UG/L	1.89
5	62	95	3:10	1	0.351	A BB	60130.	50.000 UG/L	1.89
6	64	124	4:08	1	0.458	A BB	37776.	50.000 UG/L	1.89
7	84	179	5:58	1	0.661	A BB	60918.	50.000 UG/L	1.89
8	43	214	7:08	1	0.790	A BB	47902.	50.000 UG/L	1.89
9	56	218	7:16	1	0.804	A VB	6320.	50.000 UG/L	1.89
10	76	230	7:40	1	0.849	A BB	116430.	50.000 UG/L	1.89
11	101	239	7:58	1	0.882	A BB	228122.	50.000 UG/L	1.89
12	53	236	7:52	1	0.871	A BB	15320.	50.000 UG/L	1.89
13	96	261	8:42	1	0.963	A BB	53777.	50.000 UG/L	1.89
14	63	296	9:52	1	1.092	A BB	147696.	50.000 UG/L	1.89
15	96	318	10:36	1	1.173	A BB	142692.	100.000 UG/L	3.77
16	83	330	11:00	1	1.218	A BB	192778.	50.000 UG/L	1.89
17	62	360	12:00	1	1.328	A BB	181553.	50.000 UG/L	1.89
18	114	585	19:30	18	1.000	A BB	262783.	50.000 UG/L	1.89
19	72	374	12:28	1	1.380	A BV	6289.	50.000 UG/L	1.89
20	97	391	13:02	18	0.668	A BB	174728.	50.000 UG/L	1.89
21	117	401	13:22	18	0.685	A VB	181795.	50.000 UG/L	1.89
22	43	417	13:54	18	0.713	A BB	106964.	50.000 UG/L	1.89
23	83	423	14:06	18	0.723	A BB	196270.	50.000 UG/L	1.89
24	63	470	15:40	18	0.803	A BB	90529.	50.000 UG/L	1.89
25	75	479	15:58	18	0.819	A BB	210746.	81.000 UG/L	3.06
26	130	488	16:16	18	0.834	A BB	101674.	50.000 UG/L	1.89
27	129	509	16:58	18	0.870	A BB	162160.	50.000 UG/L	1.89
28	97	517	17:14	18	0.884	A BB	75157.	50.000 UG/L	1.89
29	78	507	16:54	18	0.867	A BB	191817.	50.000 UG/L	1.89
30	75	519	17:18	18	0.887	A VB	43224.	19.000 UG/L	0.72
31	63	552	18:24	18	0.944	A BB	32402.	50.000 UG/L	1.89
32	173	590	19:40	18	1.009	A BB	87718.	50.000 UG/L	1.89
33	117	730	24:20	33	1.000	A BB	248222.	50.000 UG/L	1.89
34	98	696	23:12	33	0.953	A BB	263302.	50.000 UG/L	1.89
35	95	875	29:10	33	1.199	A BB	267466.	50.000 UG/L	1.89
36	43	637	21:14	33	0.873	A*BB	80657.	50.000 UG/L	1.89
37	43	686	22:52	33	0.940	A BB	41634.	50.000 UG/L	1.89
38	164	655	21:50	33	0.897	A BB	112727.	50.000 UG/L	1.89
39	83	661	22:02	33	0.905	A BB	114800.	50.000 UG/L	1.89
40	92	702	23:24	33	0.962	A BB	137282.	50.000 UG/L	1.89
41	112	734	24:28	33	1.005	A BB	208060.	50.000 UG/L	1.89
42	106	797	26:34	33	1.092	A BB	94537.	50.000 UG/L	1.89
43	104	931	31:02	33	1.275	A BB	163987.	50.000 UG/L	1.89
44	106	939	31:18	33	1.286	A BB	104724.	50.000 UG/L	1.89
45	146	1085	36:10	33	1.486	M XX	249641.	50.000 UG/L	1.89
46	146	1114	37:08	33	1.526	M XX	223264.	50.000 UG/L	1.89
47	146	1135	37:50	33	1.555	M XX	297876.	50.000 UG/L	1.89
48	106	971	32:22	33	1.330	A BB	206116.	100.000 UG/L	3.77
49	73	389	12:58	1	1.435	A BB	149767.	50.000 UG/L	1.89
50	59	332	11:04	1	1.225	A VB	52283.	50.000 UG/L	1.89

0000128

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	9:02	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	11:54	1.00	1.317	1.00	50.00	50.00	3.500	3.500	1.00
3	1:34	1.00	0.173	1.00	50.00	50.00	0.998	0.998	1.00
4	2:28	1.00	0.273	1.00	50.00	50.00	1.357	1.357	1.00
5	3:10	1.00	0.351	1.00	50.00	50.00	1.218	1.218	1.00
6	4:08	1.00	0.458	1.00	50.00	50.00	0.765	0.765	1.00
7	5:58	1.00	0.661	1.00	50.00	50.00	1.233	1.233	1.00
8	7:08	1.00	0.790	1.00	50.00	50.00	0.970	0.970	1.00
9	7:16	1.00	0.804	1.00	50.00	50.00	0.128	0.128	1.00
10	7:40	1.00	0.849	1.00	50.00	50.00	2.357	2.357	1.00
11	7:58	1.00	0.882	1.00	50.00	50.00	4.619	4.619	1.00
12	7:52	1.00	0.871	1.00	50.00	50.00	0.310	0.310	1.00
13	8:42	1.00	0.963	1.00	50.00	50.00	1.089	1.089	1.00
14	9:52	1.00	1.092	1.00	50.00	50.00	2.991	2.991	1.00
15	10:36	1.00	1.173	1.00	100.00	100.00	1.445	1.445	1.00
16	11:00	1.00	1.218	1.00	50.00	50.00	3.903	3.903	1.00
17	12:00	1.00	1.328	1.00	50.00	50.00	3.676	3.676	1.00
18	19:30	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	12:28	1.00	1.380	1.00	50.00	50.00	0.127	0.127	1.00
20	13:02	1.00	0.668	1.00	50.00	50.00	0.665	0.665	1.00
21	13:22	1.00	0.685	1.00	50.00	50.00	0.692	0.692	1.00
22	13:54	1.00	0.713	1.00	50.00	50.00	0.407	0.407	1.00
23	14:06	1.00	0.723	1.00	50.00	50.00	0.747	0.747	1.00
24	15:40	1.00	0.803	1.00	50.00	50.00	0.344	0.344	1.00
25	15:58	1.00	0.819	1.00	81.00	81.00	0.495	0.495	1.00
26	16:16	1.00	0.834	1.00	50.00	50.00	0.387	0.387	1.00
27	16:58	1.00	0.870	1.00	50.00	50.00	0.617	0.617	1.00
28	17:14	1.00	0.884	1.00	50.00	50.00	0.286	0.286	1.00
29	16:54	1.00	0.867	1.00	50.00	50.00	0.730	0.730	1.00
30	17:18	1.00	0.887	1.00	19.00	19.00	0.433	0.433	1.00
31	18:24	1.00	0.944	1.00	50.00	50.00	0.123	0.123	1.00
32	19:40	1.00	1.009	1.00	50.00	50.00	0.334	0.334	1.00
33	24:20	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	23:12	1.00	0.953	1.00	50.00	50.00	1.061	1.061	1.00
35	29:10	1.00	1.199	1.00	50.00	50.00	1.078	1.078	1.00
36	21:14	1.00	0.873	1.00	50.00	50.00	0.325	0.325	1.00
37	22:52	1.00	0.940	1.00	50.00	50.00	0.168	0.168	1.00
38	21:50	1.00	0.897	1.00	50.00	50.00	0.454	0.454	1.00
39	22:02	1.00	0.905	1.00	50.00	50.00	0.462	0.462	1.00
40	23:24	1.00	0.962	1.00	50.00	50.00	0.553	0.553	1.00
41	24:28	1.00	1.005	1.00	50.00	50.00	0.838	0.838	1.00
42	26:34	1.00	1.092	1.00	50.00	50.00	0.381	0.381	1.00
43	31:02	1.00	1.275	1.00	50.00	50.00	0.661	0.661	1.00
44	31:18	1.00	1.286	1.00	50.00	50.00	0.422	0.422	1.00
45	36:10	1.00	1.486	1.00	50.00	50.00	1.006	1.006	1.00
46	37:08	1.00	1.526	1.00	50.00	50.00	0.899	0.899	1.00
47	37:50	1.00	1.555	1.00	50.00	50.00	1.200	1.200	1.00
48	32:22	1.00	1.330	1.00	100.00	100.00	0.415	0.415	1.00
49	12:58	1.00	1.435	1.00	50.00	50.00	3.033	3.033	1.00
50	11:04	1.00	1.225	1.00	50.00	50.00	1.059	1.059	1.00

BLL 5/4/92

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9204L922

Instrument ID: 1050W Calibration Date: 04/13/92 Time: 1012

Lab File ID: W041302 Init. Calib. Date(s): 04/02/92 04/02/92

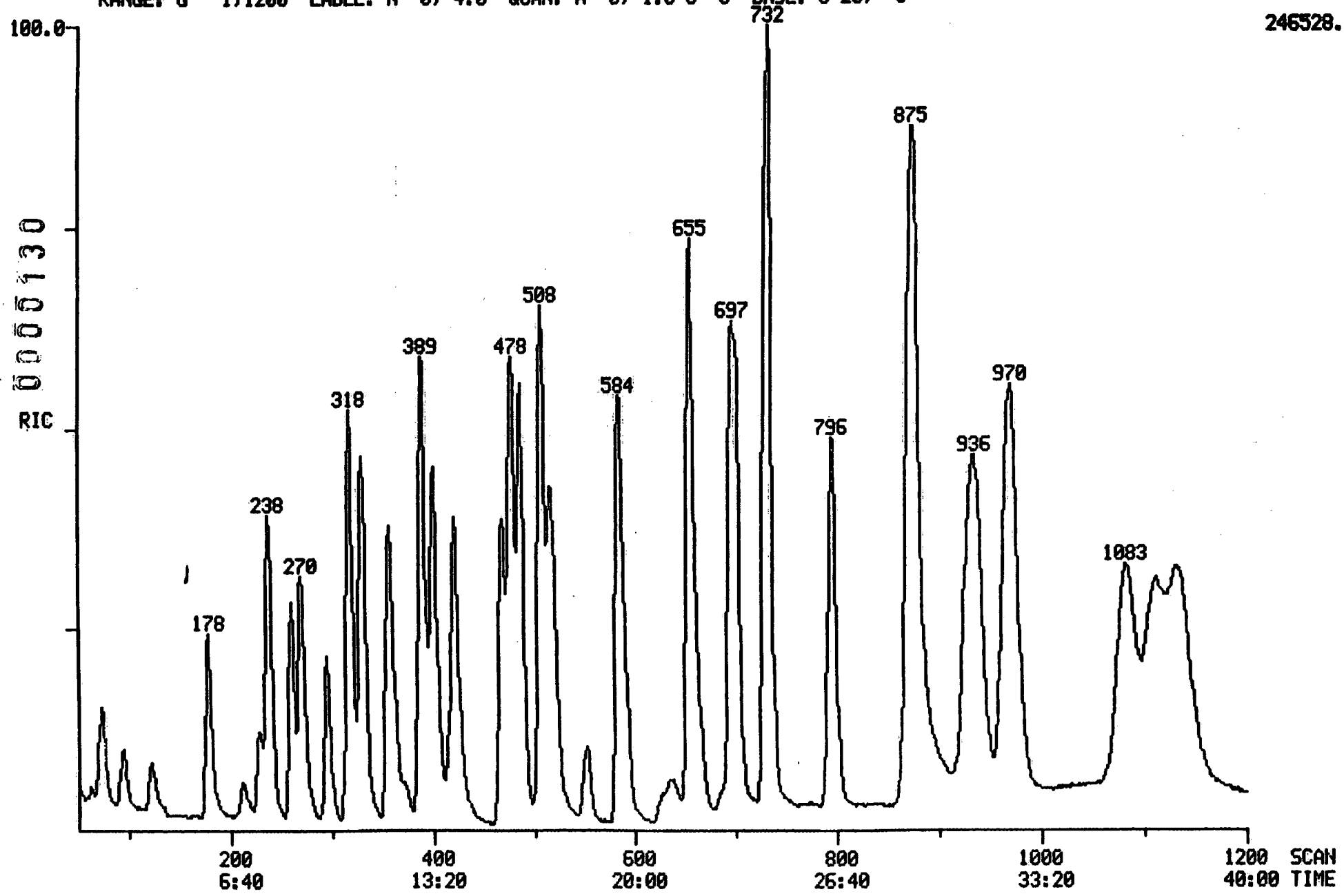
Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.879	0.959	-9.1	#
Bromomethane		1.083	1.347	-24.4	
Vinyl Chloride	*	1.207	1.231	-2.0	*
Chloroethane		0.735	0.752	-2.3	
Methylene Chloride		1.168	1.161	0.6	
1,1-Dichloroethene	*	1.175	1.181	-0.5	*
1,1-Dichloroethane	#	2.800	2.975	-6.3	#
1,2-Dichloroethene (total)		1.347	1.413	-4.9	
Chloroform	*	3.347	3.755	-12.2	*
1,2-Dichloroethane		2.793	3.509	-25.6	
1,1,1-Trichloroethane		0.666	0.688	-3.3	
Carbon Tetrachloride		0.661	0.694	-5.0	
Bromodichloromethane		0.818	0.746	8.8	
1,2-Dichloropropane	*	0.386	0.364	5.7	*
cis-1,3-Dichloropropene		0.562	0.513	8.7	
Trichloroethene		0.412	0.398	3.4	
Dibromochloromethane		0.743	0.605	18.6	
1,1,2-Trichloroethane		0.310	0.296	4.5	
Benzene		0.860	0.763	11.3	
Trans-1,3-Dichloropropene		0.512	0.435	15.0	
2-chloroethylvinylether		0.112	0.115	-2.7	
Bromoform	#	0.543	0.319	41.3	#
Tetrachloroethene		0.498	0.445	10.6	
1,1,2,2-Tetrachloroethane	#	0.586	0.465	20.6	#
Toluene	*	0.654	0.580	11.3	*
Chlorobenzene	#	0.868	0.842	3.0	#
Ethylbenzene	*	0.403	0.383	5.0	*
1,2-Dichlorobenzene		0.888	0.982	-10.6	
1,3-Dichlorobenzene		0.965	0.995	-3.1	
1,4-Dichlorobenzene		1.093	1.146	-4.8	
Acrolein		0.158	0.129	18.4	
Acrylonitrile		0.356	0.290	18.5	
Trichlorofluoromethane		3.820	4.350	-13.9	
Xylene (total)		0.430	0.417	3.0	
Toluene-d8		1.160	1.051	9.4	
Bromofluorobenzene		1.037	1.055	-1.7	
1,2-Dichloroethane-d4		2.800	3.369	-20.3	

BKR 5/4/92

RIC DATA: W041302 #1 SCANS 50 TO 1200
04/13/92 10:12:00 CALI: W041302 #2
SAMPLE: VSTD50 LOW WATER CCL
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: W041302 0000131

Data: W041302.TI
04/13/92 10:12:00
Sample: VSTD50 LOW WATER CCL
Conds.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
Formula: W041301 Instrument: 1050W Weight: 0.014
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	270	9:00	1	1.000	A BB	51187.	50.000 UG/L	1.89
2	65	356	11:52	1	1.319	A BB	172453.	50.000 UG/L	1.89
3	50	46	1:32	1	0.170	A BB	49066.	50.000 UG/L	1.89
4	94	73	2:26	1	0.270	A BB	68936.	50.000 UG/L	1.89
5	62	94	3:08	1	0.348	A BB	63002.	50.000 UG/L	1.89
6	64	122	4:04	1	0.452	A BB	38483.	50.000 UG/L	1.89
7	84	178	5:56	1	0.659	A BB	59431.	50.000 UG/L	1.89
8	43	212	7:04	1	0.785	A BB	45810.	50.000 UG/L	1.89
9	56	216	7:12	1	0.800	A VB	6583.	50.000 UG/L	1.89
10	76	228	7:36	1	0.844	A BB	119101.	50.000 UG/L	1.89
11	101	238	7:56	1	0.881	A BB	222664.	50.000 UG/L	1.89
12	53	235	7:50	1	0.870	A BB	14819.	50.000 UG/L	1.89
13	96	260	8:40	1	0.963	A BB	60469.	50.000 UG/L	1.89
14	63	295	9:50	1	1.093	A BB	152291.	50.000 UG/L	1.89
15	96	318	10:36	1	1.178	A BB	144689.	100.000 UG/L	3.77
16	83	330	11:00	1	1.222	A BB	192206.	50.000 UG/L	1.89
17	62	359	11:58	1	1.330	A BB	179593.	50.000 UG/L	1.89
18	114	584	19:28	18	1.000	A BB	264182.	50.000 UG/L	1.89
19	72	372	12:24	1	1.378	A BB	6304.	50.000 UG/L	1.89
20	97	390	13:00	18	0.668	A BB	181681.	50.000 UG/L	1.89
21	117	401	13:22	18	0.687	A VB	183240.	50.000 UG/L	1.89
22	43	417	13:54	18	0.714	A BB	101901.	50.000 UG/L	1.89
23	83	422	14:04	18	0.723	A BB	197203.	50.000 UG/L	1.89
24	63	469	15:38	18	0.803	A BB	96130.	50.000 UG/L	1.89
25	75	478	15:56	18	0.818	A BB	219587.	81.000 UG/L	3.06
26	130	487	16:14	18	0.834	A BB	105218.	50.000 UG/L	1.89
27	129	508	16:56	18	0.870	A BB	159909.	50.000 UG/L	1.89
28	97	518	17:16	18	0.887	A BB	78190.	50.000 UG/L	1.89
29	78	507	16:54	18	0.868	A BB	201476.	50.000 UG/L	1.89
30	75	519	17:18	18	0.889	A VB	43652.	19.000 UG/L	0.72
31	63	553	18:26	18	0.947	A BB	30413.	50.000 UG/L	1.89
32	173	590	19:40	18	1.010	A BB	84366.	50.000 UG/L	1.89
33	117	730	24:20	33	1.000	A BB	247197.	50.000 UG/L	1.89
34	98	696	23:12	33	0.953	A BB	259776.	50.000 UG/L	1.89
35	95	874	29:08	33	1.197	A BB	260733.	50.000 UG/L	1.89
36	43	636	21:12	33	0.871	A BB	81082.	50.000 UG/L	1.89
37	43	687	22:54	33	0.941	A*BB	49778.	50.000 UG/L	1.89
38	164	655	21:50	33	0.897	A BB	109955.	50.000 UG/L	1.89
39	83	661	22:02	33	0.905	A BB	114841.	50.000 UG/L	1.89
40	92	702	23:24	33	0.962	A BB	143269.	50.000 UG/L	1.89
41	112	734	24:28	33	1.005	A BB	208243.	50.000 UG/L	1.89
42	106	797	26:34	33	1.092	A BB	94770.	50.000 UG/L	1.89
43	104	930	31:00	33	1.274	A BB	157647.	50.000 UG/L	1.89
44	106	939	31:18	33	1.286	A BB	102963.	50.000 UG/L	1.89
45	146	1083	36:06	33	1.484	M XX	246069.	50.000 UG/L	1.89
46	146	1113	37:06	33	1.525	M XX	242768.	50.000 UG/L	1.89
47	146	1135	37:50	33	1.555	M XX	283334.	50.000 UG/L	1.89
48	106	970	32:20	33	1.329	A BB	200518.	100.000 UG/L	3.77
49	73	388	12:56	1	1.437	A BB	156275.	50.000 UG/L	1.89
50	59	332	11:04	1	1.230	A VB	52310.	50.000 UG/L	1.89

0000133

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:00	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	11:52	1.00	1.319	1.00	50.00	50.00	3.369	3.369	1.00
3	1:32	1.00	0.170	1.00	50.00	50.00	0.959	0.959	1.00
4	2:26	1.00	0.270	1.00	50.00	50.00	1.347	1.347	1.00
5	3:08	1.00	0.348	1.00	50.00	50.00	1.231	1.231	1.00
6	4:04	1.00	0.452	1.00	50.00	50.00	0.752	0.752	1.00
7	5:56	1.00	0.659	1.00	50.00	50.00	1.161	1.161	1.00
8	7:04	1.00	0.785	1.00	50.00	50.00	0.895	0.895	1.00
9	7:12	1.00	0.800	1.00	50.00	50.00	0.129	0.129	1.00
10	7:36	1.00	0.844	1.00	50.00	50.00	2.327	2.327	1.00
11	7:56	1.00	0.881	1.00	50.00	50.00	4.350	4.350	1.00
12	7:50	1.00	0.870	1.00	50.00	50.00	0.290	0.290	1.00
13	8:40	1.00	0.963	1.00	50.00	50.00	1.181	1.181	1.00
14	9:50	1.00	1.093	1.00	50.00	50.00	2.975	2.975	1.00
15	10:36	1.00	1.178	1.00	100.00	100.00	1.413	1.413	1.00
16	11:00	1.00	1.222	1.00	50.00	50.00	3.755	3.755	1.00
17	11:58	1.00	1.330	1.00	50.00	50.00	3.509	3.509	1.00
18	19:28	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	12:24	1.00	1.378	1.00	50.00	50.00	0.123	0.123	1.00
20	13:00	1.00	0.668	1.00	50.00	50.00	0.688	0.688	1.00
21	13:22	1.00	0.687	1.00	50.00	50.00	0.694	0.694	1.00
22	13:54	1.00	0.714	1.00	50.00	50.00	0.386	0.386	1.00
23	14:04	1.00	0.723	1.00	50.00	50.00	0.746	0.746	1.00
24	15:38	1.00	0.803	1.00	50.00	50.00	0.364	0.364	1.00
25	15:56	1.00	0.818	1.00	81.00	81.00	0.513	0.513	1.00
26	16:14	1.00	0.834	1.00	50.00	50.00	0.398	0.398	1.00
27	16:56	1.00	0.870	1.00	50.00	50.00	0.605	0.605	1.00
28	17:16	1.00	0.887	1.00	50.00	50.00	0.296	0.296	1.00
29	16:54	1.00	0.868	1.00	50.00	50.00	0.763	0.763	1.00
30	17:18	1.00	0.889	1.00	19.00	19.00	0.435	0.435	1.00
31	18:26	1.00	0.947	1.00	50.00	50.00	0.115	0.115	1.00
32	19:40	1.00	1.010	1.00	50.00	50.00	0.319	0.319	1.00
33	24:20	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	23:12	1.00	0.953	1.00	50.00	50.00	1.051	1.051	1.00
35	29:08	1.00	1.197	1.00	50.00	50.00	1.055	1.055	1.00
36	21:12	1.00	0.871	1.00	50.00	50.00	0.328	0.328	1.00
37	22:54	1.00	0.941	1.00	50.00	50.00	0.201	0.201	1.00
38	21:50	1.00	0.897	1.00	50.00	50.00	0.445	0.445	1.00
39	22:02	1.00	0.905	1.00	50.00	50.00	0.465	0.465	1.00
40	23:24	1.00	0.962	1.00	50.00	50.00	0.580	0.580	1.00
41	24:28	1.00	1.005	1.00	50.00	50.00	0.842	0.842	1.00
42	26:34	1.00	1.092	1.00	50.00	50.00	0.383	0.383	1.00
43	31:00	1.00	1.274	1.00	50.00	50.00	0.638	0.638	1.00
44	31:18	1.00	1.286	1.00	50.00	50.00	0.417	0.417	1.00
45	36:06	1.00	1.484	1.00	50.00	50.00	0.995	0.995	1.00
46	37:06	1.00	1.525	1.00	50.00	50.00	0.982	0.982	1.00
47	37:50	1.00	1.555	1.00	50.00	50.00	1.146	1.146	1.00
48	32:20	1.00	1.329	1.00	100.00	100.00	0.406	0.406	1.00
49	12:56	1.00	1.437	1.00	50.00	50.00	3.053	3.053	1.00
50	11:04	1.00	1.230	1.00	50.00	50.00	1.022	1.022	1.00

BKL 5/14/92

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9204L922

Lab File ID (Standard): W041002 Date Analyzed: 04/10/92

Instrument ID: 1050W Time Analyzed: 1006

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	49387	9.03	262783	19.50	248222	24.33
	UPPER LIMIT	98774	9.53	525566	20.00	496444	24.83
	LOWER LIMIT	24694	8.53	131392	19.00	124111	23.83
	CLIENT SAMPLE NO.						
01	MW-3	45240	8.97	246667	19.40	229798	24.20
02	MW-4	46140	9.13	248415	19.50	234327	24.30
03	MW-5	43797	9.17	237879	19.60	225055	24.47
04	FB	41882	9.20	228431	19.63	215596	24.47
05	VBLKLVW062-MB1	48399	9.13	255038	19.63	242055	24.47

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

BLR 5/14/92

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9204L922

Lab File ID (Standard): W041302 Date Analyzed: 04/13/92

Instrument ID: 1050W Time Analyzed: 1012

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	51187	9.00	264182	19.47	247197	24.33
	UPPER LIMIT	102374	9.50	528364	19.97	494394	24.83
	LOWER LIMIT	25594	8.50	132091	18.97	123599	23.83
	CLIENT SAMPLE NO.						
01	MW-2	43381	9.23	238280	19.60	226325	24.40
02	MW-2MS	42040	9.10	232903	19.57	223540	24.37
03	MW-2MSD	39795	9.03	226423	19.57	215518	24.37
04	MW-3DL	39110	9.17	221493	19.60	217707	24.40
05	MW-4RE	34886	9.20	205989	19.60	190208	24.40
06	VBLKLVW063-MB1	45223	9.13	240730	19.60	233662	24.43

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

BCR 5/14/92

Column used to flag internal standard area values with an asterisk

V. **Raw QC Data Package**

A. GC/MS Tuning and Calibration Standard: DFTPP

1. Bar Graph
2. Mass Listing

B. Blank Data

1. Tabulated Results (Form 1)
2. TIC Results (Form 1B)
3. Raw Data
   a. Reconstructed Ion Chromatogram(s) and Quantitation Report(s)
   b. HSL Spectra
   c. TIC Spectra
   d. GC/MS Library Search for TIC

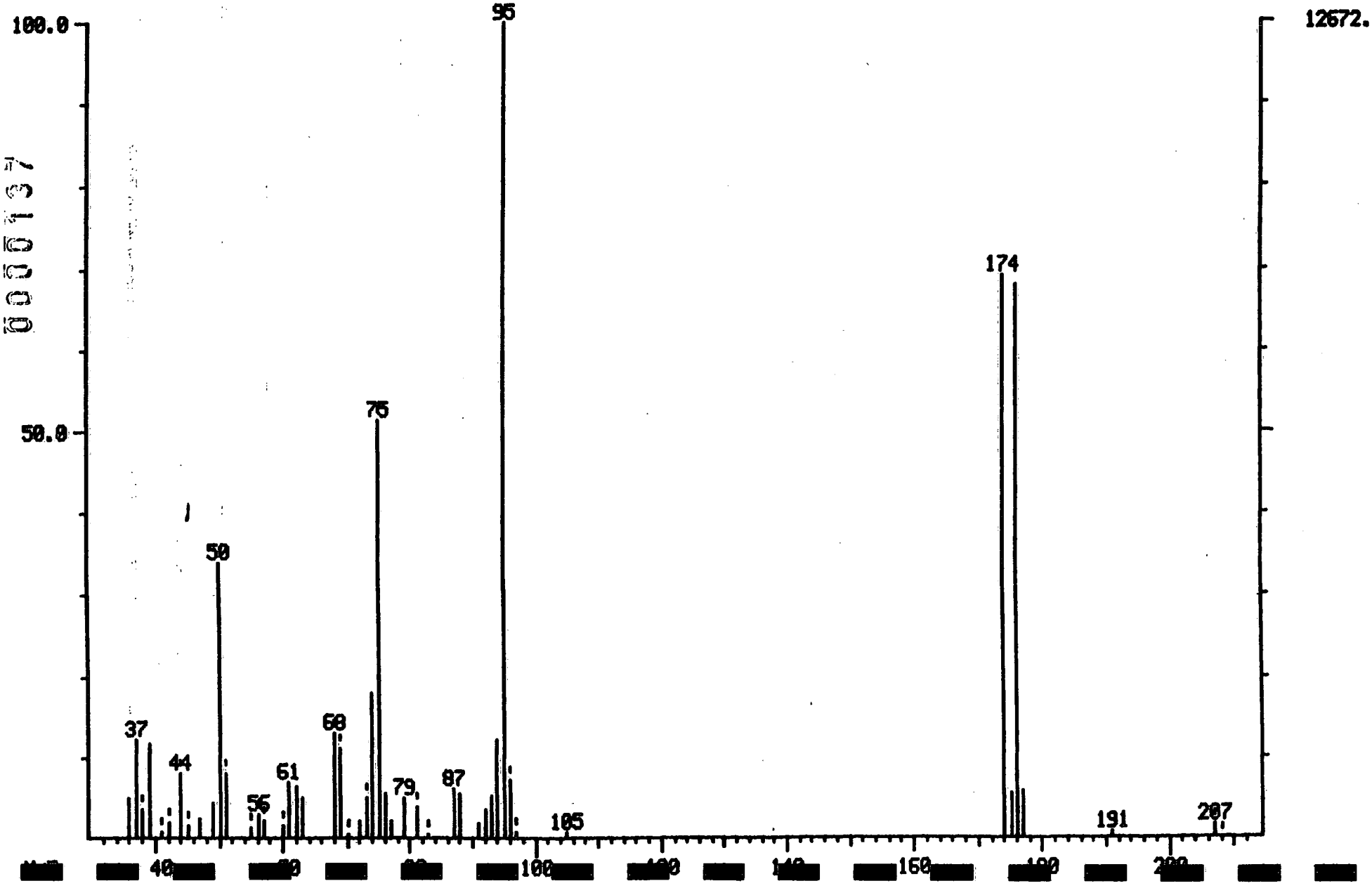
C. Matrix Spike Data (if applicable)

1. Tabulated Results (Form 1)
2. Raw Data
   a. Reconstructed Ion Chromatogram(s)
   b. Quantitation Report(s)

MASS SPECTRUM
04/02/92 11:19:00 + 8:22
SAMPLE: BFB 50NG TUNE
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
GC TEMP: 213 DEG. C
#250 TO #252 SUMMED - #200

DATA: W040201 #251
CALI: W040201 #2

BASE M/Z: 95
RIC: 67712.



Mass List Data: W040200 # 252 Base m/z: 95
3/02/92 11:19:00 + 8:22 Cali: W040201 # 2 RIC: 67712.
Sample: BFB 50NG TUNE
Conds.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
#250 to #252 Summed - #200

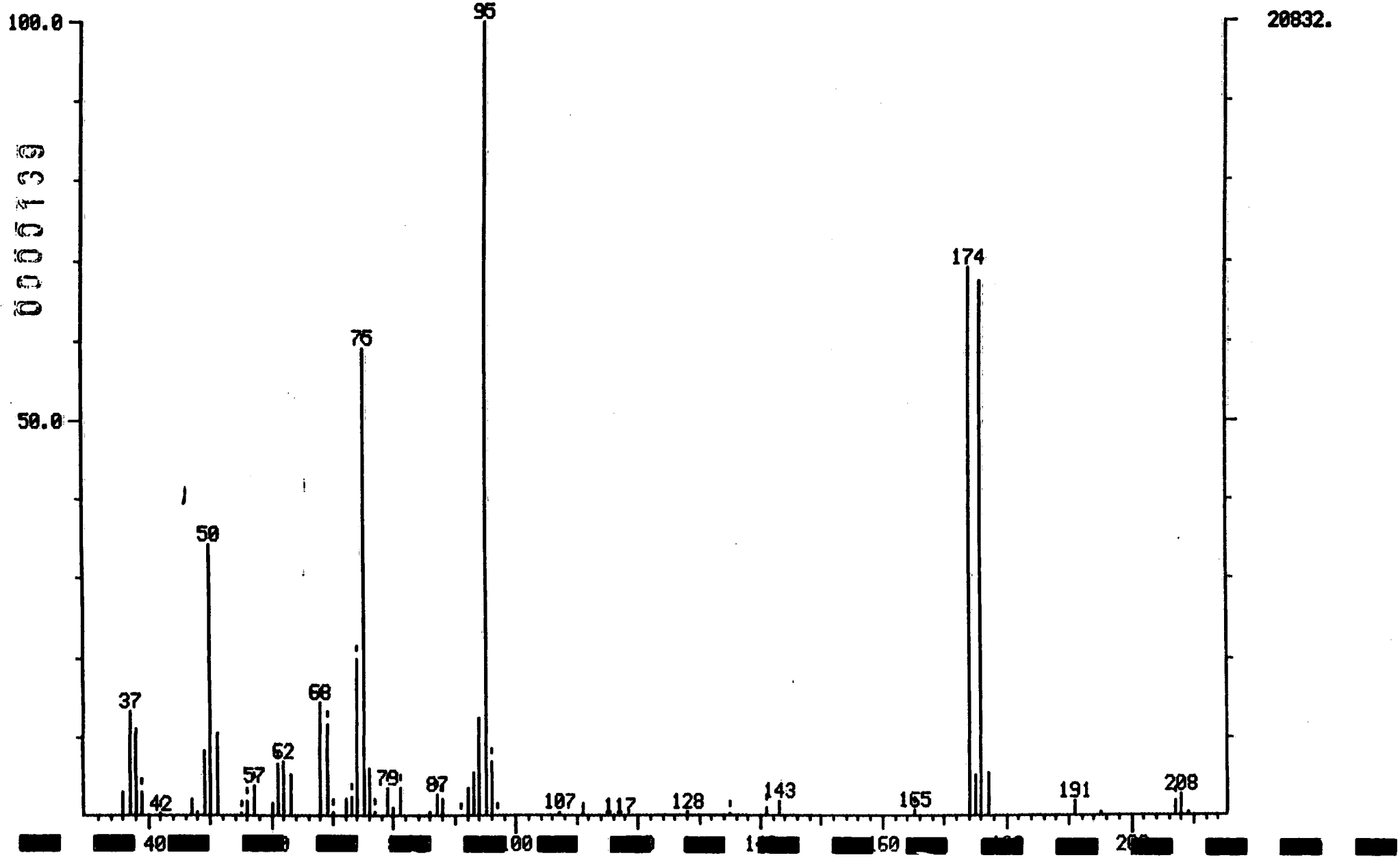
36 0.00 0.00 0. Minima Min inten: 0.
208 # 0 Maxima

Mass		% RA	% RIC	Inten.
36.00?		4.96	0.93	628.
37.00?		12.25	2.29	1552.
38.00?	S	3.68	0.69	466.
39.00?		11.70	2.19	1482.
41.00?	S	0.74	0.14	94.
42.00?	S	1.91	0.36	242.
44.00?	S	8.02	1.50	1016.
45.00?	S	1.61	0.30	204.
47.00?		2.39	0.45	303.
49.00?		4.36	0.82	552.
50.00?		34.03	6.37	4312.
51.00?	S	7.88	1.48	999.
55.00?	S	1.47	0.27	186.
56.00?	S	3.17	0.59	402.
57.00?	S	2.24	0.42	284.
60.00?	S	1.57	0.29	199.
61.00?		6.90	1.29	874.
62.00?		6.22	1.16	788.
63.00?		4.99	0.93	632.
68.00?	S	13.08	2.45	1658.
69.00	S	11.11	2.08	1408.
70.00	S	0.43	0.08	55.
72.00		2.30	0.43	291.
73.00	S	5.08	0.95	644.
74.00		17.90	3.35	2268.
75.00	S	51.26	9.59	6496.
76.00		5.47	1.02	693.
77.00		2.16	0.40	274.
79.00		5.07	0.95	642.
81.00	S	3.78	0.71	479.
83.00	S	0.51	0.09	64.
87.00		6.20	1.16	786.
88.00		5.46	1.02	692.
91.00		1.91	0.36	242.
92.00		3.50	0.65	443.
93.00		5.32	1.00	674.
94.00		12.04	2.25	1526.
95.00	S	100.00	18.71	12672.
96.00	S	7.15	1.34	906.
97.00	S	0.93	0.17	118.
105.00		0.79	0.15	100.
174.00		69.07	12.93	8752.
175.00		5.52	1.03	700.
176.00		67.93	12.71	8608.
177.00		5.76	1.08	730.
191.00		0.81	0.15	103.
207.00	S	1.73	0.32	219.
208.00	S	0.11	0.02	14.

MASS SPECTRUM
04/10/92 9:10:00 + 8:20
SAMPLE: BFB 50 NG TUNE
CONDS.: INST:1050W,METHOD 1,BF,COLUMN:1%-SP1000
GC TEMP: 214 DEG. C
#249 TO #251 SUMMED - #200

DATA: W041001 #250
CALI: W041001 #2

BASE M/Z: 95
RIC: 111232.



Mass List Data: W041001 # 250 Base m/z: 95
04/10/92 9:10:00 + 8:20 Cali: W041001 RIC: 111232.
Sample: BFB 50 NG TUNE
Conds.: INST: 1050W, METHOD 1, BF, COLUMN: 1%-SP1000
#249 to #251 Summed - #200

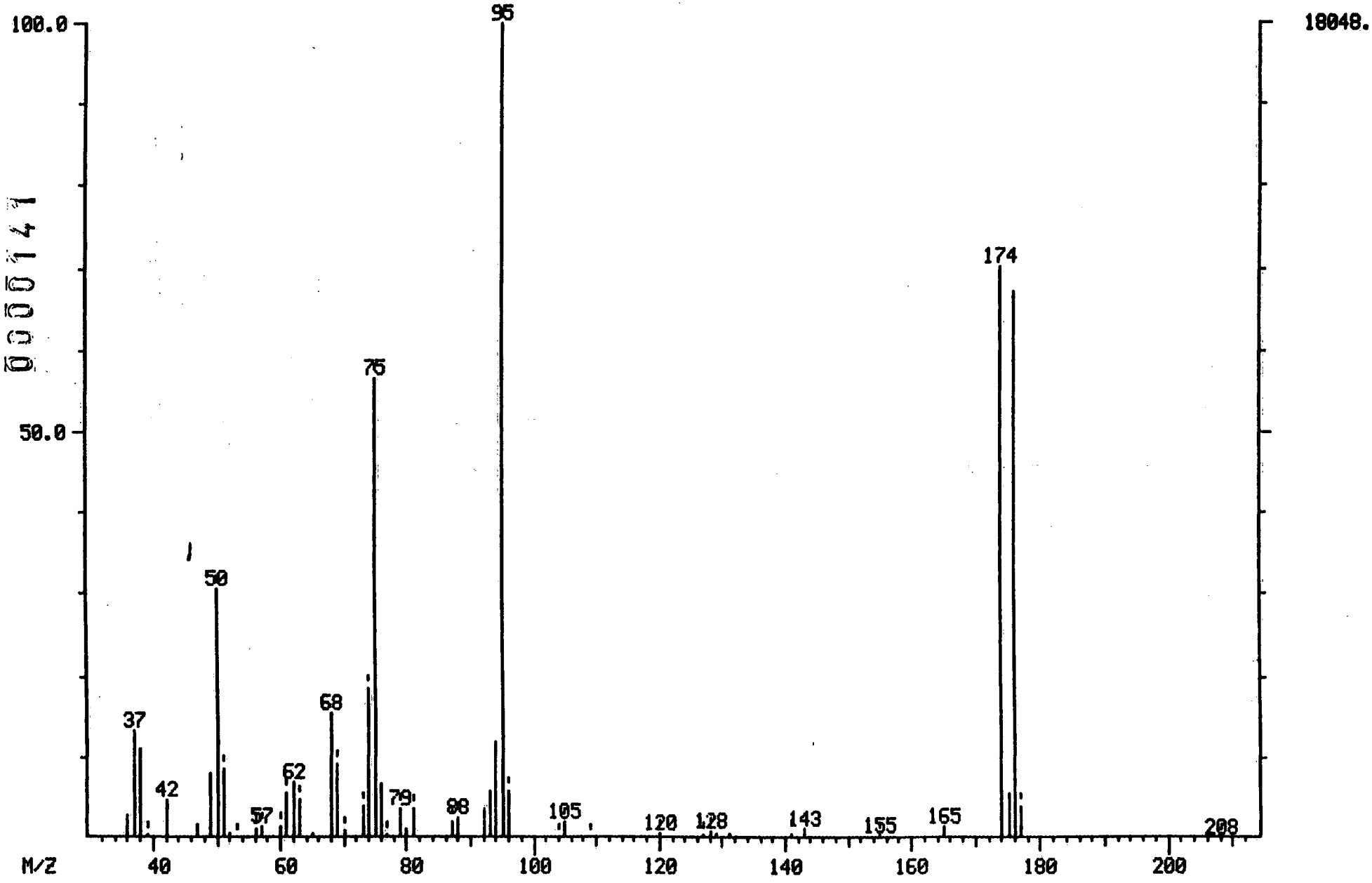
36 0.00 0.00 0. Minima Min inten: 0.
209 # 0 Maxima

Mass		% RA	% RIC	Inten.	Mass		% RA	% RIC	Inten.
36.00?		2.94	0.55	613.	177.00		5.65	1.06	1176.
37.00?		13.36	2.50	2784.	191.00		1.82	0.34	379.
38.00?		10.94	2.05	2280.	195.00		0.52	0.10	108.
39.00?	S	2.97	0.56	618.	207.00	S	2.00	0.37	416.
42.00?	S	0.24	0.05	51.	208.00		2.70	0.51	563.
47.00?		2.15	0.40	447.	209.00		0.62	0.12	130.
48.00?		0.55	0.10	115.					
49.00?		8.21	1.54	1710.					
50.00?		34.29	6.42	7144.					
51.00?		10.46	1.96	2180.					
55.00?	S	0.35	0.07	73.					
56.00?	S	1.90	0.36	395.					
57.00?	S	3.81	0.71	794.					
60.00?		1.58	0.30	330.					
61.00?	S	6.60	1.24	1374.					
62.00?		6.90	1.29	1438.					
63.00?		5.35	1.00	1114.					
68.00?	S	14.42	2.70	3004.					
69.00	S	11.67	2.19	2432.					
70.00	S	0.50	0.09	104.					
72.00		2.15	0.40	447.					
73.00	S	2.48	0.46	516.					
74.00	S	19.93	3.73	4152.					
75.00	S	59.14	11.08	12320.					
76.00		6.18	1.16	1288.					
77.00	S	0.57	0.11	118.					
79.00	S	3.61	0.68	752.					
80.00		1.10	0.21	229.					
81.00	S	3.48	0.65	724.					
86.00		0.50	0.09	104.					
87.00	S	2.88	0.54	599.					
88.00	S	2.29	0.43	477.					
91.00	S	0.08	0.01	16.					
92.00		3.63	0.68	757.					
93.00		5.65	1.06	1178.					
94.00		12.48	2.34	2600.					
95.00	S	100.00	18.73	20832.					
96.00	S	6.91	1.29	1440.					
97.00	S	0.11	0.02	23.					
107.00		0.50	0.09	105.					
111.00		1.54	0.29	320.					
117.00	S	0.07	0.01	15.					
128.00		0.63	0.12	132.					
135.00	S	0.25	0.05	53.					
141.00	S	1.07	0.20	222.					
143.00		1.89	0.35	394.					
165.00	S	0.76	0.14	159.					
174.00		69.05	12.93	14384.					
175.00		5.36	1.00	1116.					
176.00		67.28	12.60	14016.					

MASS SPECTRUM
04/13/92 8:52:00 + 8:16
SAMPLE: BFB 50 NG TUNE
CONDS.: INST:1050W,BF,METHOD 1,COLUMN:12-SP1000
GC TEMP: 215 DEG. C
#247 TO #249 SUMMED - #200

DATA: W041301 #248
CALI: W041301 #2

BASE M/Z: 95
RIC: 92032.



000014

Mass List Data: W041301 #248 Base m/z: 95
04/13/92 8:52:00 + 8:16 Cali: W041301 # 2 RIC: 92032.
Sample: BFB 50 NG TUNE
Conds.: INST: 1050W, BF, METHOD 1, COLUMN: 1%-SP1000
#247 to #249 Summed - #200

36 0.00 0.00 0. Minima Min inten: 0.
208 # 0 Maxima

Mass		% RA	% RIC	Inten.	Mass		% RA	% RIC	Inten.
36.00?		2.68	0.53	484.	176.00		67.11	13.16	12112.
37.00?		13.16	2.58	2376.	177.00	S	3.84	0.75	693.
38.00?		11.14	2.18	2010.	208.00	S	0.02	0.00	4.
39.00?	S	0.19	0.04	34.					
42.00?		4.74	0.93	856.					
47.00?		1.75	0.34	316.					
49.00?		8.07	1.58	1456.					
50.00?	S	30.59	6.00	5520.					
51.00?	S	8.62	1.69	1556.					
52.00?		0.66	0.13	119.					
53.00?	S	0.06	0.01	11.					
56.00?	S	1.03	0.20	185.					
57.00?	S	1.41	0.28	254.					
60.00?	S	1.27	0.25	229.					
61.00?	S	5.51	1.08	994.					
62.00?		7.01	1.38	1266.					
63.00?	S	4.63	0.91	836.					
65.00?		0.61	0.12	110.					
68.00?		15.58	3.06	2812.					
69.00	S	9.25	1.81	1670.					
70.00	S	0.89	0.17	160.					
73.00	S	3.85	0.76	695.					
74.00	S	18.62	3.65	3360.					
75.00	S	56.65	11.11	10224.					
76.00		6.73	1.32	1214.					
77.00	S	0.24	0.05	44.					
79.00	S	3.65	0.72	659.					
80.00		1.24	0.24	224.					
81.00	S	3.65	0.71	658.					
87.00	S	2.02	0.40	364.					
88.00	S	2.39	0.47	432.					
92.00		3.56	0.70	643.					
93.00		5.74	1.13	1036.					
94.00		11.86	2.33	2140.					
95.00	S	100.00	19.61	18048.					
96.00	S	5.87	1.15	1060.					
104.00	S	0.11	0.02	19.					
105.00	S	1.91	0.37	344.					
109.00	S	0.03	0.01	5.					
120.00	S	0.61	0.12	110.					
127.00	S	0.27	0.05	49.					
128.00	S	0.79	0.16	143.					
129.00		0.58	0.11	104.					
131.00		0.58	0.11	104.					
141.00	S	0.47	0.09	85.					
143.00		1.19	0.23	214.					
155.00	S	0.25	0.05	46.					
165.00		1.32	0.26	238.					
174.00		70.12	13.75	12656.					
175.00		5.39	1.06	973.					

1A 0000143

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER Lab Sample ID: 92LVW062-MB1

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W041003

Level: (low/med) LOW Date Received: 04/10/92

% Moisture: not dec. _____ Date Analyzed: 04/10/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 92LVW062-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041003

Level: (low/med) LOW

Date Received: 04/10/92

% Moisture: not dec. _____

Date Analyzed: 04/10/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

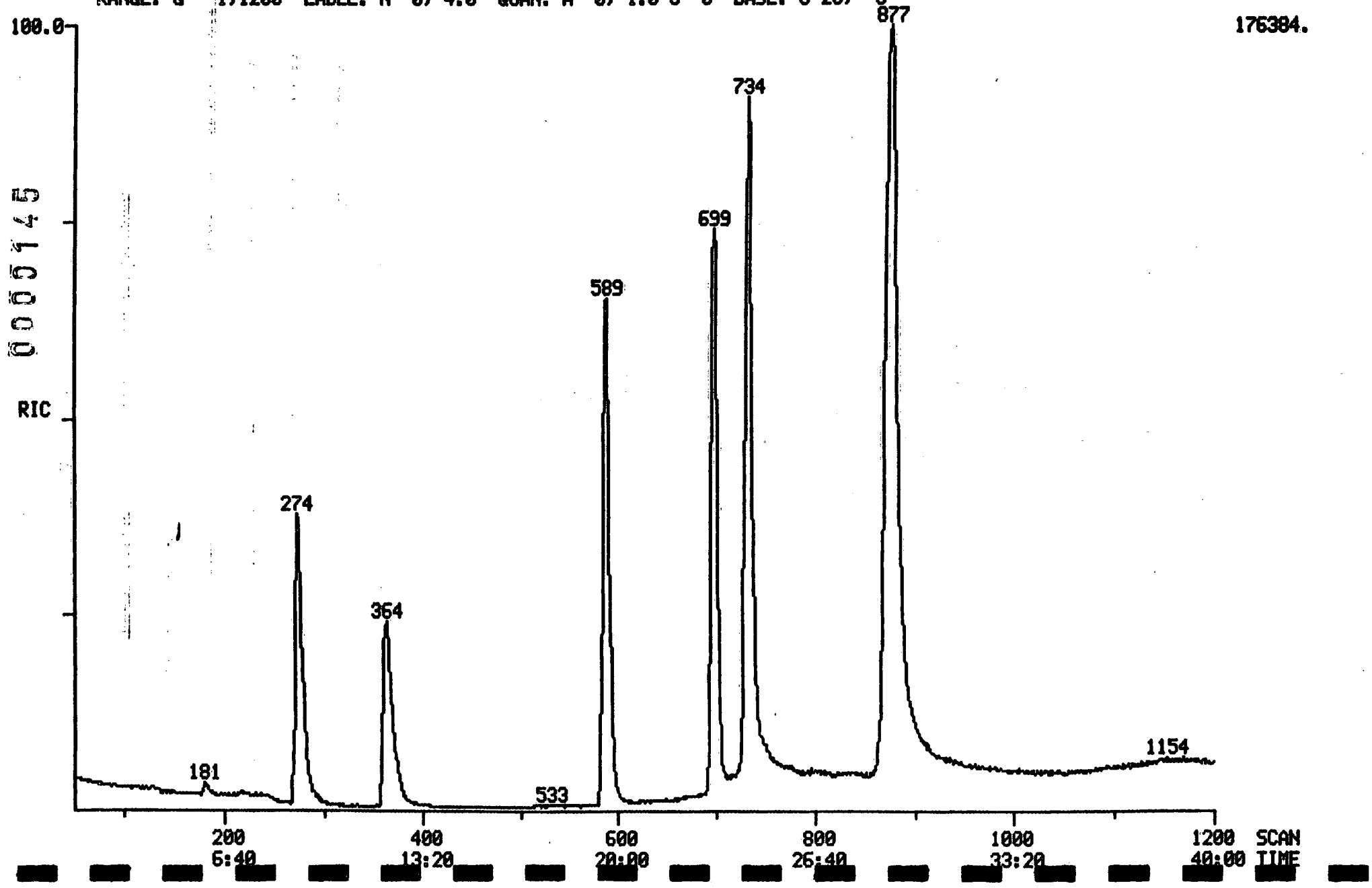
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

OK

RIC
04/10/92 10:51:00
SAMPLE: 92LVW062-MB1 VOA BLANK
CONDS.: INST:1050W,VO METHOD 2,COLUMN:12-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W041003 #1
CALI: W041003 #2

SCANS 50 TO 1200



00005145

Quantitation Report File: W041003 0000146

Data: W041003.TI
04/10/92 10:51:00
Sample: 92LVW062-MB1 VOA BLANK
Conds.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
Formula: W041001 Instrument: 1050W Weight: 0.012
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

0000147

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

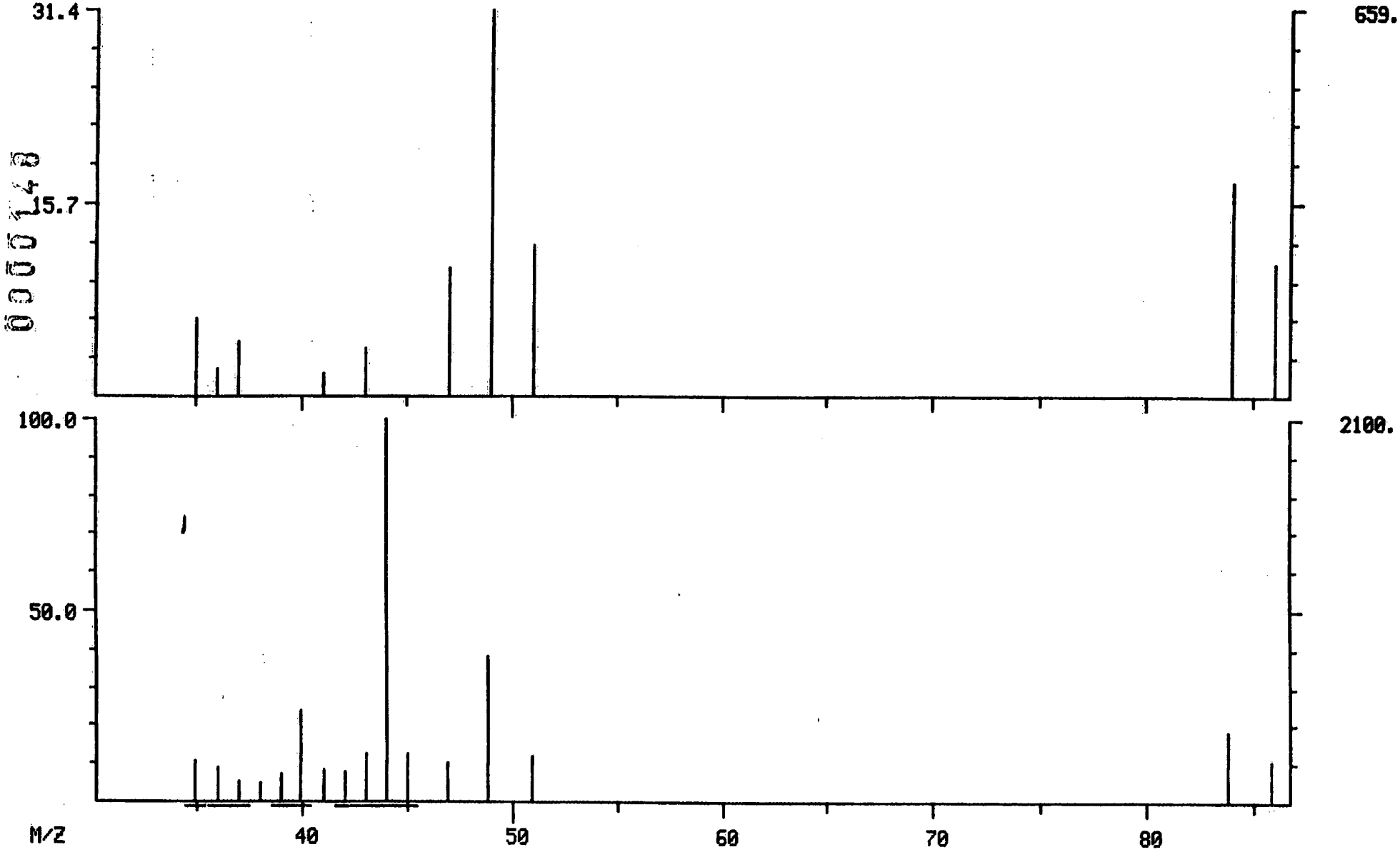
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	274	9:08	1	1.000	A BB	48399.	50.000 UG/L	16.72
2	65	364	12:08	1	1.328	A BB	155430.	45.873 UG/L	15.34
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	181	6:02	1	0.661	A BB	2491.	2.086 UG/L	0.70
8	43	221	7:22	1	0.807	A BB	2140.	2.279 UG/L	0.76 NT
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	114	589	19:38	19	1.000	A BB	255038.	50.000 UG/L	16.72
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	117	734	24:28	33	1.000	A BB	242055.	50.000 UG/L	16.72
34	98	699	23:18	33	0.952	A BB	256580.	49.965 UG/L	16.71
35	95	877	29:14	33	1.195	A BB	253285.	48.555 UG/L	16.24
36	43	633	21:06	33	0.862	A BB	510.	0.324 UG/L	0.11
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

4/29/92

DUAL MASS SPECTRUM
04/10/92 10:51:00 + 6:02
SAMPLE: 92LVW062-MB1 VOA BLANK
CONDS.: INST:1050W,VO METHOD 2,COLUMN:12-SP1000
GC TEMP: 71 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041003 #181
CALI: W041003 #2

BASE M/Z: 49/ 44
RIC: 2127./ 6119.

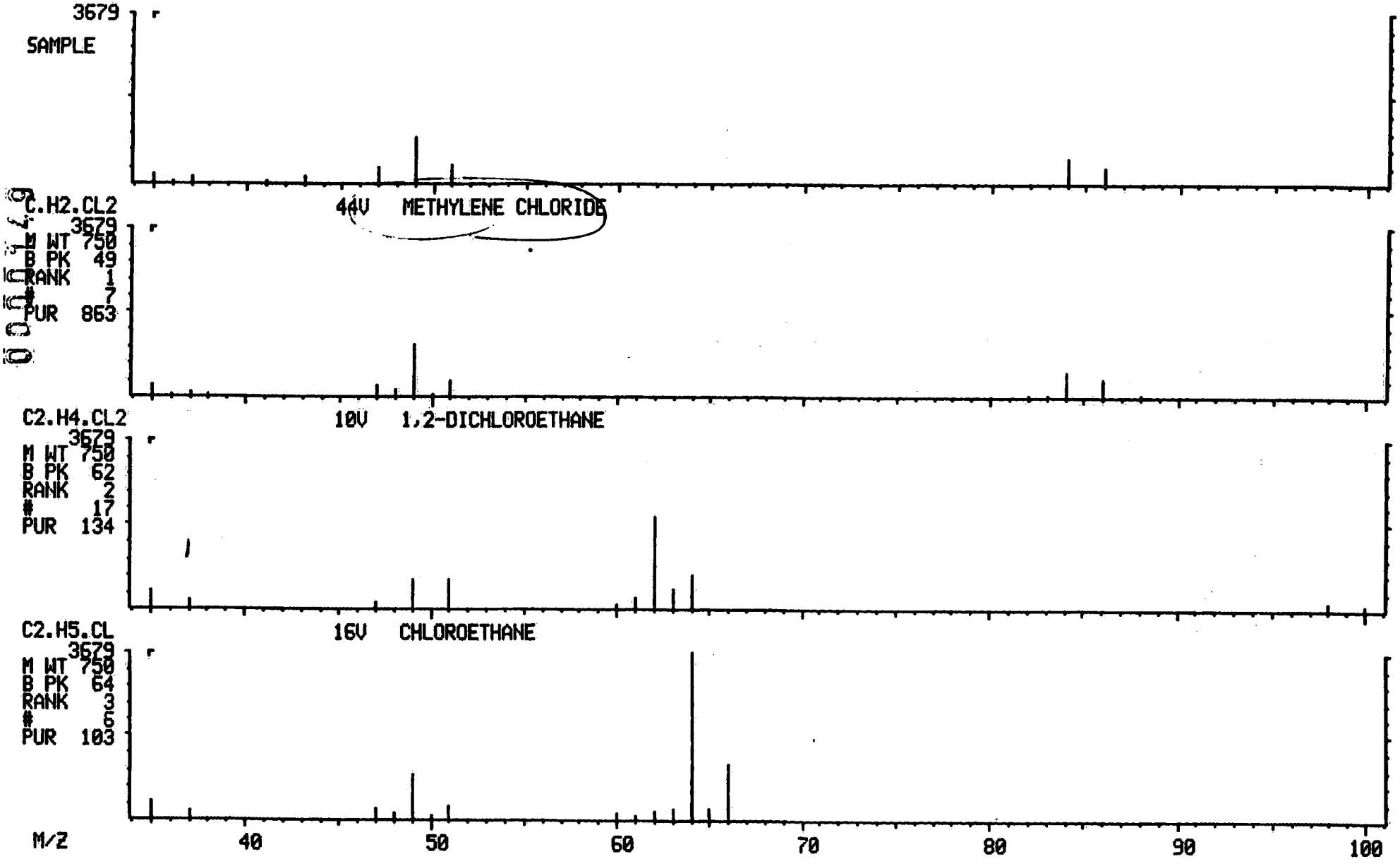


000148

LIBRARY SEARCH
04/10/92 10:51:00 + 6:02
SAMPLE: 92LVW062-MB1 VOA BLANK
CONDS.: INST:1050W,VO METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041003 # 181
CALI: W041003 # 2

BASE M/Z: 49
RIC: 2127.



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER Lab Sample ID: 92LVW063-MB1

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W041303

Level: (low/med) LOW Date Received: 04/13/92

% Moisture: not dec. _____ Date Analyzed: 04/13/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	5	U

00001504

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 92LVW063-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041303

Level: (low/med) LOW

Date Received: 04/13/92

% Moisture: not dec. _____

Date Analyzed: 04/13/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

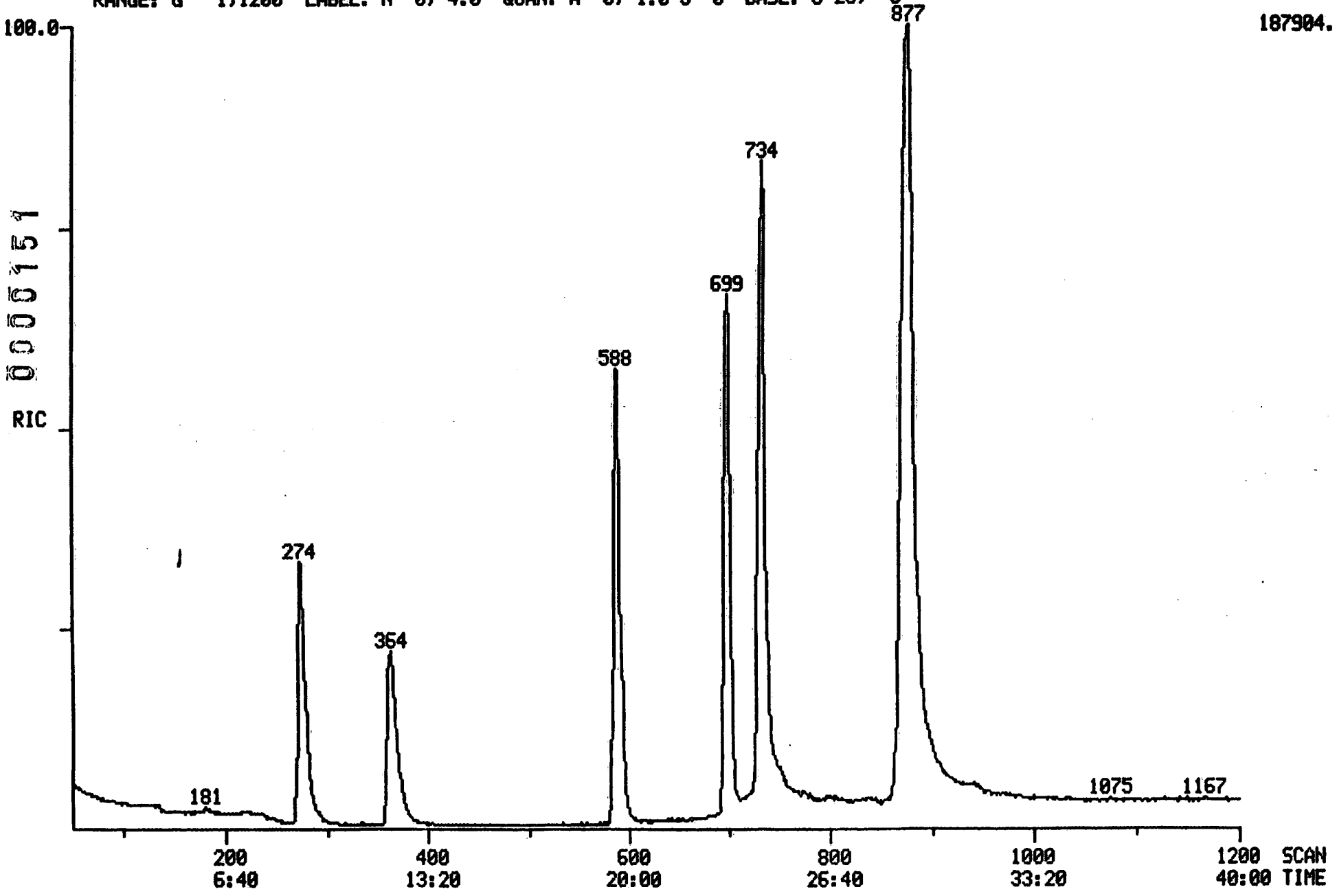
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

RIC
04/13/92 10:57:00
SAMPLE: 92LVW063-MB1 VOA BLANK
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W041303 #1
CALI: W041303 #2

SCANS 50 TO 1200



Quantitation Report File: W041303 0000152

Data: W041303.TI
04/13/92 10:57:00
Sample: 92LVW063-MB1 VOA BLANK
Conds.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
Formula: W041301 Instrument: 1050W Weight: 0.014
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

0000153

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

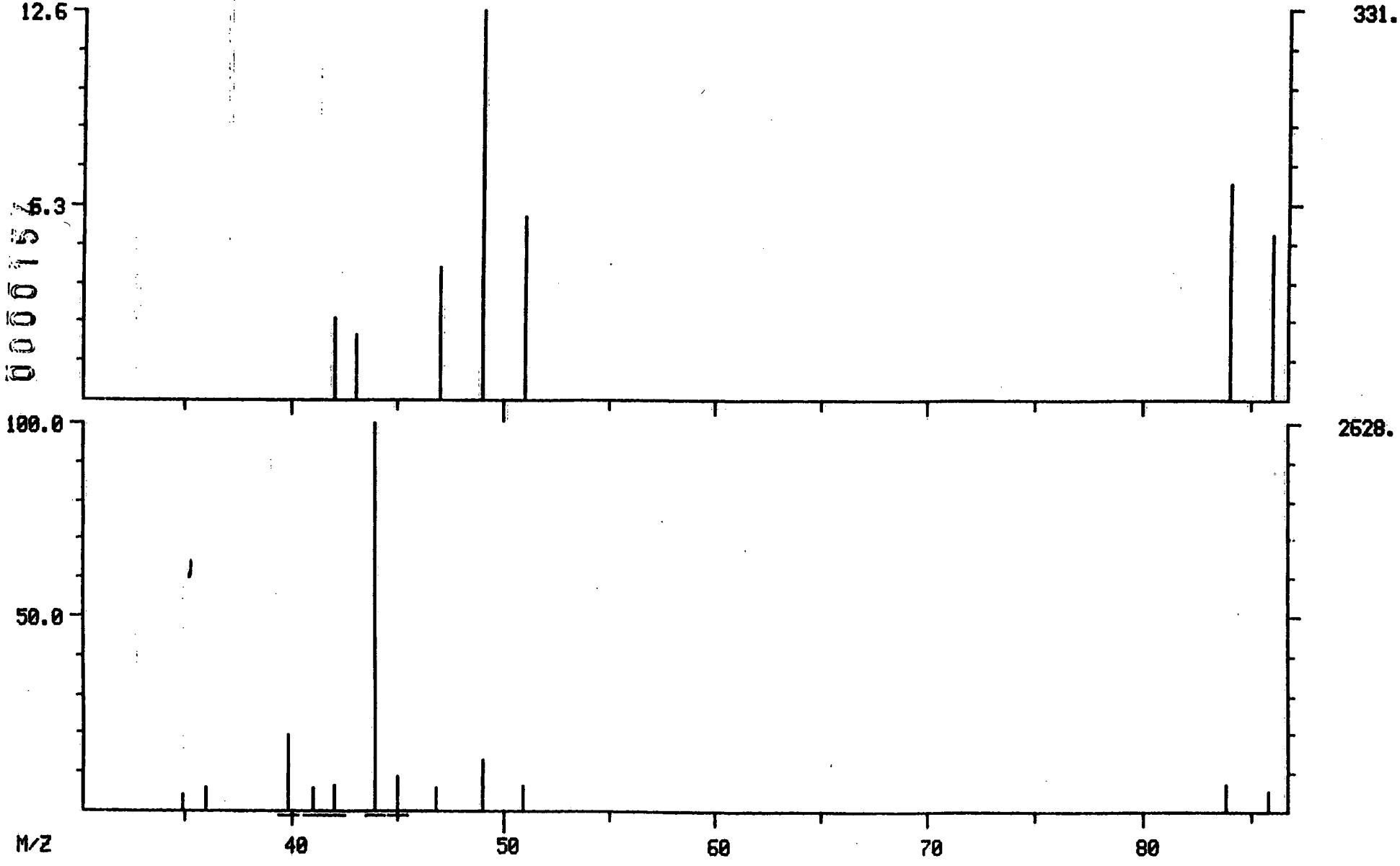
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	274	9:08	1	1.000	A BB	45223.	50.000 UG/L	16.48
2	65	364	12:08	1	1.328	A BB	155687.	51.092 UG/L	16.84
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	181	6:02	1	0.661	A BB	1186.	1.129 UG/L	0.37
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	114	588	19:36	19	1.000	A BB	240730.	50.000 UG/L	16.48
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	117	733	24:26	33	1.000	A BB	233662.	50.000 UG/L	16.48
34	98	699	23:18	33	0.954	A BB	243247.	49.531 UG/L	16.33
35	95	877	29:14	33	1.196	A BB	245154.	49.736 UG/L	16.40
36	43	632	21:04	33	0.862	A BV	1480.	0.966 UG/L	0.32
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	106	940	31:20	33	1.282	A BB	1810.	0.930 UG/L	0.31
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

JR 4/14/92

DUAL MASS SPECTRUM
04/13/92 10:57:00 + 6:02
SAMPLE: 92LVW063-MB1 VOA BLANK
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
GC TEMP: 72 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W041303 #181
CALI: W041303 #2

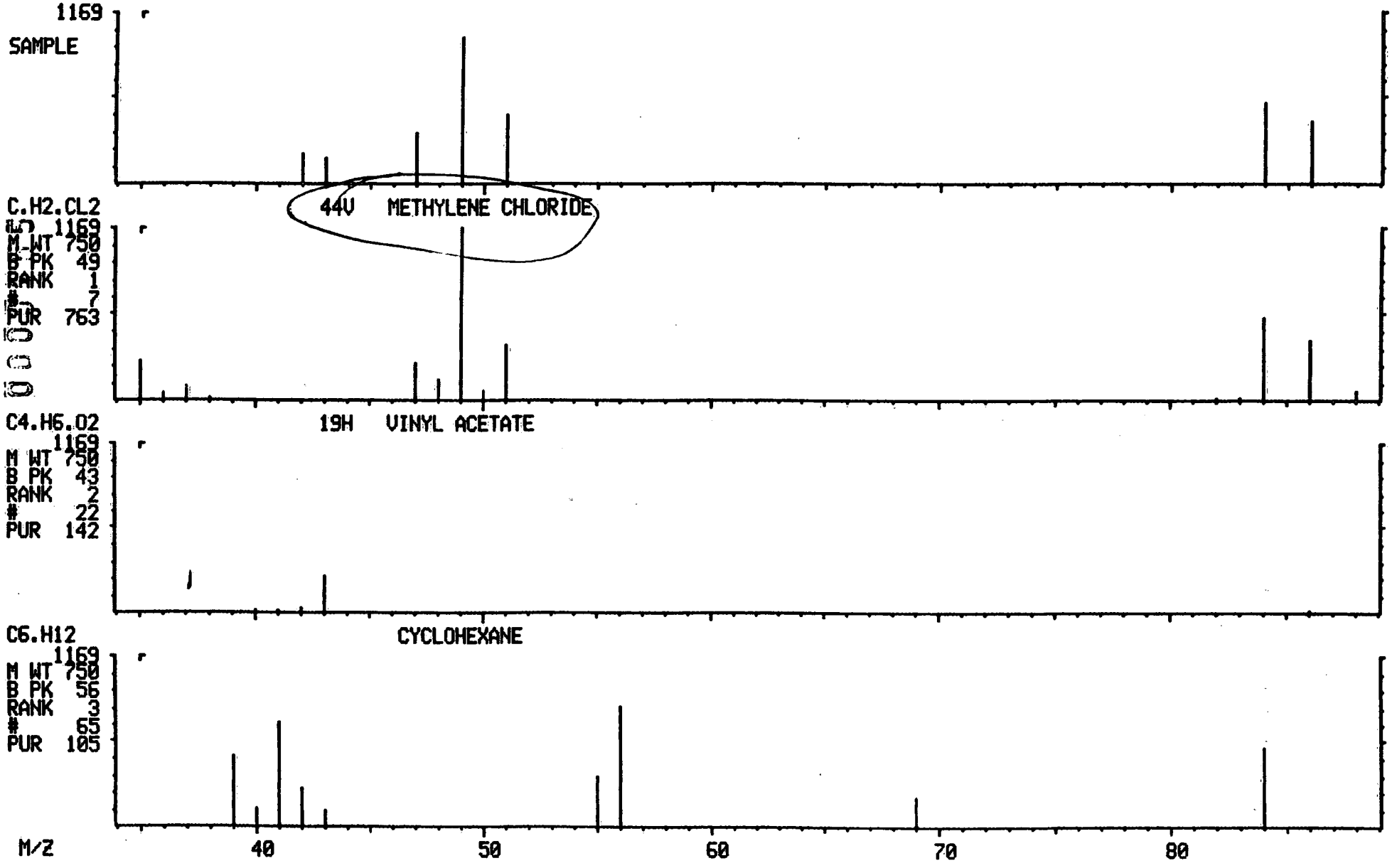
BASE M/Z: 49/ 44
RIC: 1043./ 4975.



LIBRARY SEARCH
04/13/92 10:57:00 + 6:02
SAMPLE: 92LVW063-MB1 VOA BLANK
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
ENHANCED (S 15B 2N 0T)

DATA: W041303 # 181
CALI: W041303 # 2

BASE M/Z: 49
RIC: 1043.



1A

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-2MS

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9204L922-001 MS

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041305

Level: (low/med) LOW

Date Received: 04/08/92

% Moisture: not dec. _____

Date Analyzed: 04/13/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

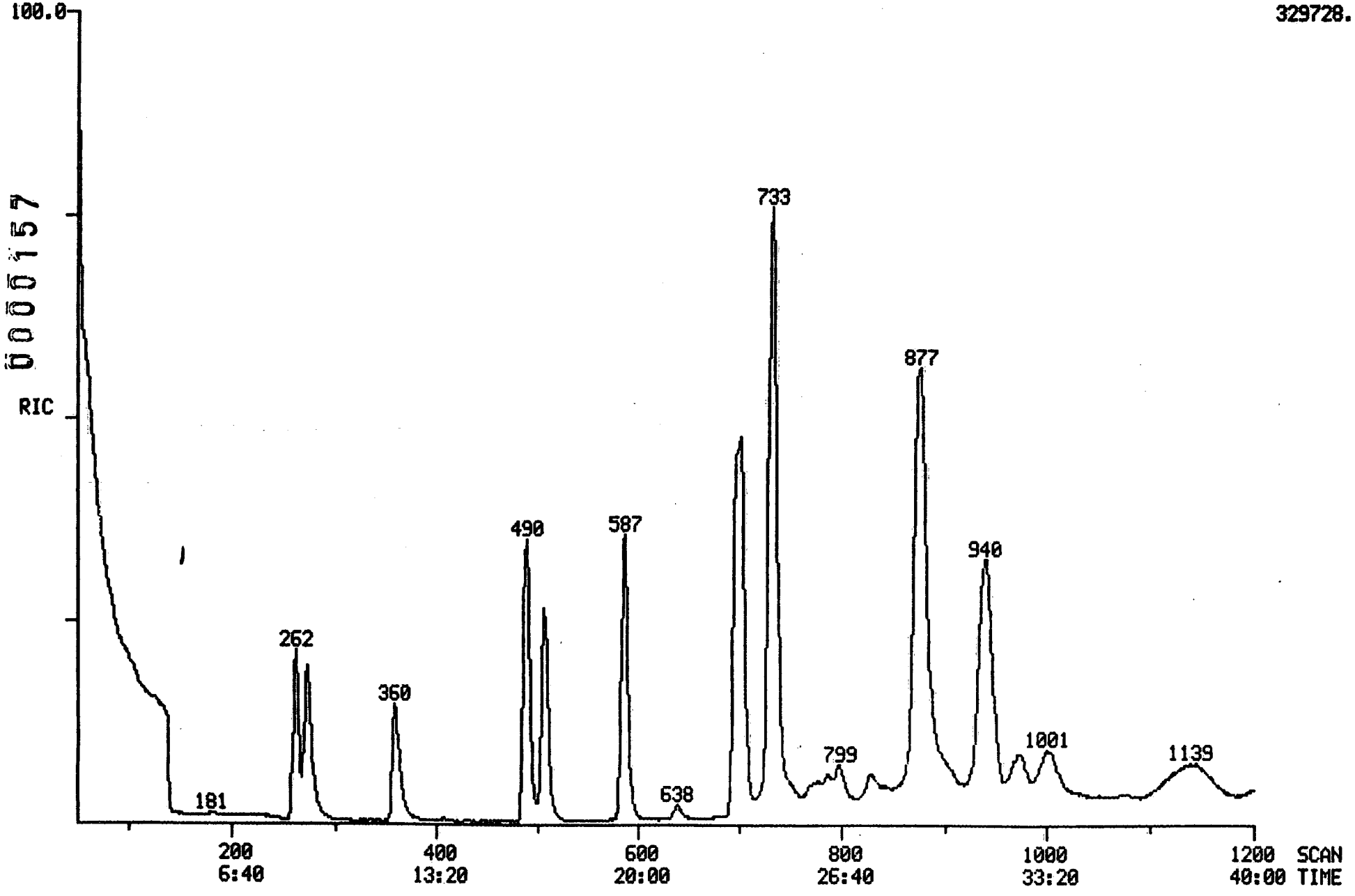
CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	JB
75-35-4	1,1-Dichloroethene		SP
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		SP
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		SP
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		SP
108-90-7	Chlorobenzene		SP
100-41-4	Ethylbenzene	6	
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	80	

SP: SPIKE COMPOUND

RIC
04/13/92 12:50:00
SAMPLE: 9204L922-001S
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W041305 #1
CALI: W041305 #2
WSI-LE CARPENTER 5.0 ML

SCANS 50 TO 1200



0000157

Quantitation Report File: W041305 0000157A

Data: W041305.TI
04/13/92 12:50:00
Sample: 9204L922-001S WSI-LE CARPENTER 5.0 ML
Conds.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
Formula: W041301 Instrument: 1050W Weight: 0.015
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

0000158

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	273	9:06	1	1.000	A BB	42040.	50.000 UG/L	7.36
2	65	360	12:00	1	1.319	A BB	155682.	54.958 UG/L	8.09
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	182	6:04	1	0.667	A BB	1089.	1.116 UG/L	0.16
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	96	262	8:44	1	0.960	A BB	57975.	58.368 UG/L	8.59
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	114	587	19:34	19	1.000	A BB	232903.	50.000 UG/L	7.36
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	130	490	16:20	19	0.835	A BB	105361.	56.792 UG/L	8.36
27	NOT FOUND								
28	NOT FOUND								
29	78	508	16:56	19	0.865	A BB	194724.	54.815 UG/L	8.07
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	117	731	24:22	33	1.000	A BB	223540.	50.000 UG/L	7.36
34	98	697	23:14	33	0.953	A BB	232711.	49.531 UG/L	7.29
35	95	876	29:12	33	1.198	A BB	237596.	50.385 UG/L	7.42
36	NOT FOUND								
37	43	681	22:42	33	0.932	A*BB	2240.	2.488 UG/L	0.37 NT
38	NOT FOUND								
39	NOT FOUND								
40	92	703	23:26	33	0.962	A BB	146086.	56.379 UG/L	8.30
41	112	735	24:30	33	1.005	A BB	219761.	58.350 UG/L	8.59
42	106	799	26:38	33	1.093	A BB	10270.	5.992 UG/L	0.88
43	NOT FOUND								
44	106	940	31:20	33	1.286	A BB	127507.	68.472 UG/L	10.08
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	106	973	32:26	33	1.331	A BB	21001.	11.582 UG/L	1.71
49	NOT FOUND								
50	NOT FOUND								

RBS 4/21/92

1A

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-2MSD

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9204L922-001 MSD

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W041306

Level: (low/med) LOW

Date Received: 04/08/92

% Moisture: not dec. _____

Date Analyzed: 04/13/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

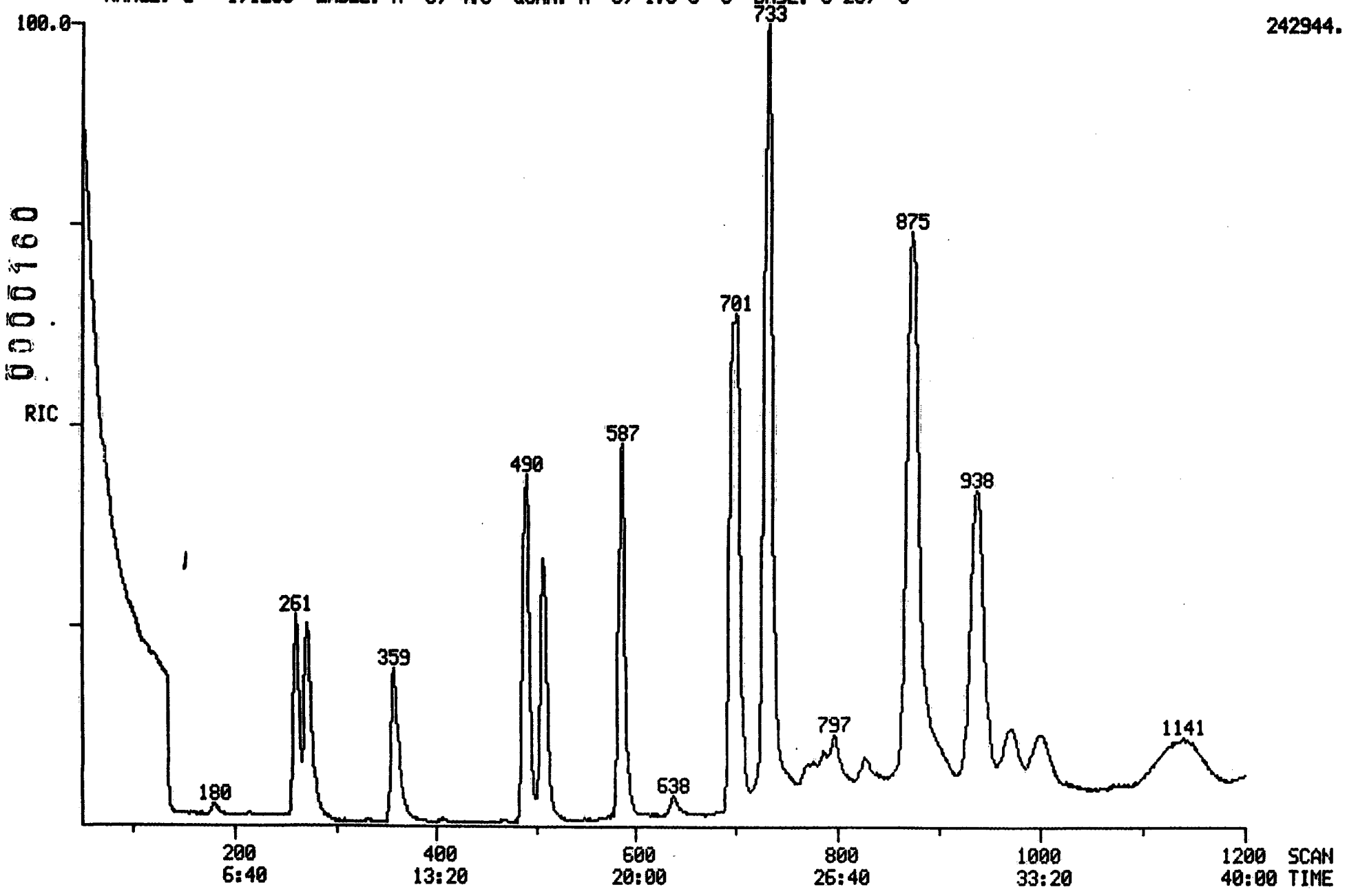
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	JB
75-35-4	1,1-Dichloroethene		SP
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		SP
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		SP
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		SP
108-90-7	Chlorobenzene		SP
100-41-4	Ethylbenzene	6	
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	80	

SP: SPIKE COMPOUND

RIC
04/13/92 13:35:00
SAMPLE: 9204L922-001T
CONDS.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W041306 #1
CALI: W041306 #2
WSI-LE CARPENTER 5.0 ML
SCANS 50 TO 1200



Quantitation Report File: W041306 0000161

Data: W041306.TI
04/13/92 13:35:00
Sample: 9204L922-001T WSI-LE CARPENTER 5.0 ML
Conds.: INST:1050W,VO,METHOD 2,COLUMN:1%-SP1000
Formula: W041301 Instrument: 1050W Weight: 0.015
Submitted by: Analyst: JBS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

0000162

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	271	9:02	1	1.000	A BB	39795.	50.000 UG/L	7.34
2	65	359	11:58	1	1.325	A BB	149854.	55.885 UG/L	8.20
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	180	6:00	1	0.664	A BB	3598.	3.894 UG/L	0.57
8	43	211	7:02	1	0.779	A BB	571.	0.802 UG/L	0.12
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	96	261	8:42	1	0.963	A BB	52424.	55.757 UG/L	8.18
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	114	587	19:34	19	1.000	A BB	226423.	50.000 UG/L	7.34
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	130	490	16:20	19	0.835	A BB	98373.	54.543 UG/L	8.01
27	NOT FOUND								
28	NOT FOUND								
29	78	508	16:56	19	0.865	A BB	187517.	54.296 UG/L	7.97
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	117	731	24:22	33	1.000	A BB	215518.	50.000 UG/L	7.34
34	98	697	23:14	33	0.953	A BB	235499.	51.990 UG/L	7.63
35	95	874	29:08	33	1.196	A BB	232430.	51.124 UG/L	7.50
36	43	630	21:00	33	0.862	A BB	1334.	0.944 UG/L	0.14
37	43	682	22:44	33	0.933	A VV	1898.	2.187 UG/L	0.32 NT
38	NOT FOUND								
39	NOT FOUND								
40	92	702	23:24	33	0.960	A BB	139858.	55.984 UG/L	8.22
41	112	734	24:28	33	1.004	A BB	207313.	57.093 UG/L	8.38
42	106	798	26:36	33	1.092	A BB	9861.	5.967 UG/L	0.88
43	NOT FOUND								
44	106	938	31:16	33	1.283	A BB	119543.	66.585 UG/L	9.77
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	106	972	32:24	33	1.330	A BB	23207.	13.275 UG/L	1.95
49	NOT FOUND								
50	59	334	11:08	1	1.232	A BB	804.	0.988 UG/L	0.15

4/29/92

VI. Additional Documentation

A. Extraction Record

SAMPLE PREP RECORD

Sheet no.: 1

Extract. Date: 04/13/92 Extraction Batch No: 92LVW063 Analyst: JR Method: N/A

Test: 0624 Cleanup Date: Analyst: Client: WSI-LE CARPENTER

LIMS Report Date: 05/08/92 Solvent: Adsorbent:

Sample No:	Client Name / Client ID	pH	Initial WT/VOL	Surr. Mult.	Spike Mult.	Final VOL	Final VOL	Split Mult.	GPC Y/N	% Solids	C/D FACTOR
9204L922-	WSI-LE CARPENTER										
001 P	MW-2	7.00	5	1.0		5		1.0	N		1.0
001 PS	MW-2	7.00	5	1.0	1.0	5		1.0	N		1.0
001 PT	MW-2	7.00	5	1.0	1.0	5		1.0	N		1.0
002 P D1	MW-3	7.00	5	1.0		5		1.0	N		1.0
003 P R1	MW-4	7.00	5	1.0		5		1.0	N		1.0
9204L953-	MK FERGUSON-WSSRAP										
001 H	WM-1690-040992	7.00	5	1.0		5		1.0	N		1.0
002 H	WM-0000-040992	7.00	5	1.0		5		1.0	N		1.0
92LVW063-MB1 H		7.00	5	1.0		5		1.0	N		1.0
92LVW063-MB1 P		7.00	5	1.0		5		1.0	N		1.0

Comments:
Surrogate:
Spike:

Extracts Transferred	Relinquished By	Date Time	Received By	Date Time	Reason for Transfer

000164

SAMPLE PREP RECORD

Sheet no.: 1

Extract. Date: 04/10/92 Extraction Batch No: 92LVW062 Analyst: JS Method: N/A

Test: 0624 Cleanup Date: Analyst: Client: WSI-LE CARPENTER

LIMS Report Date: 05/08/92 Solvent: Adsorbent:

Sample No:	Client Name / Client ID	pH	Initial WT/VOL	Surr. Mult.	Spike Mult.	Final VOL	Final VOL	Split Mult.	GPC Y/N	% Solids	C/D FACTOR
9204L922-	WSI-LE CARPENTER										
002 P	MW-3	7.00	5	1.0		5		1.0	N		1.0
003 P	MW-4	7.00	5	1.0		5		1.0	N		1.0
004 P	MW-5	7.00	5	1.0		5		1.0	N		1.0
005 P	FB	7.00	5	1.0		5		1.0	N		1.0
92LVW062-MB1 P		7.00	5	1.0		5		1.0	N		1.0

Comments:
Surrogate:
Spike:

Extracts Transferred	Relinquished By	Date Time	Received By	Date Time	Reason for Transfer

000165

END OF DATA PACKAGE