LE CARPENTER QUARTERLY REPORT

Summary of Groundwater Elevations
and
Product Thickness Observations

The water table surface contours for November and December 1990, and January 1991, Figures 1, 2, and 3 respectively, all show a consistent groundwater flow direction to the east and northeast away from the Washington Forge Pond Dam and towards the Air Products drainage ditch. From November to December, water levels increased by about 0.6 to 0.8 feet across the site thereby reversing the trend of the previous three months. In contrast water levels in December, 1990 and January, 1991 were similar.

Included for the first time in this quarterly report are surface water elevations along the Rockaway River (River Points #1, #2 and #3), the Infiltration Gallery on-site and the Air Products drainage ditch. These data are consistent with earlier observations of groundwater flow to the east and northeast towards the Air Products drainage ditch and away from the Rockaway River.

In addition, these new data suggest a localized groundwater mound, or high, produced by the infiltration gallery which receives surface runoff from the site.

Monitoring wells containing free-phase, floating product are indicated by a "P" on the figures and the product thickness is included on the monthly table. Water levels from these monitoring wells were not used in completing these maps because product depresses the water level in the well which is, therefore, not an accurately measurement of the water table elevation. During the previous three months, product was observed inconsistently in monitoring well MW-06. Product was observed in monitoring well MW-06 during November, December and January.

346110

WESTON

NOVEMBER 1990

WATER LEVEL AND PRODUCT THICKNESS DATA AND WATER LEVEL ELEVATION CONTOUR MAP

L.E. CARPENTER AND COMPANY, WHARTON, NEW JERSEY
WATER LEVEL MEASUREMENTS, DEPTH TO WATER AND PRODUCT THICKNESS DATA
21 NOVEMBER 1990

LOCATION	MEASURING POINT ELEV. (Ft. MSL)	DEPTH TO WATER (Ft.)	WATER LEVEL ELEV. (Ft. MSL)	DEPTH TO WATER IN GEOMON (Ft.)	WATER LEVEL ELEV. (Ft. MSL) IN GEOMON	THICKNESS OF PRODUCT (Ft.)
MW-01	639.18	13.98	625.20	13.40	625.78	0.76
MW-02	633.57	8.39	625.18	8.70	624.87	NO
MW-03	632.56	7.18	625.38	7.37	625.19	0.38
MW-04	632.50	7.14	625.36	7.17	625.33	NO
MW-05	632.42	6.67	625.75	6.77	625.65	NO
MW-06	632.00	7.55	624.45	NA	NA	0.55
MW-07	630.68	5.03	625.65	NA	NA	NO
MW-08	628.79	2.90	625.89	NA	NA	NO
MW-09	630.18	4.57	625.61	NA	NA	NO
MW-10	629.96	6.77	623.19	NA	NA	0.58
MW-11S	632.96	13.41	619.55	NA	NA	6.03
MW-11I	632.82	7.54	625.28	NA	NA	NO
MW-11D	632.42	4.53	627.89	NA	NA	NO
MW-12S	633.18	7.90	625.28	NA	NA	0.16
MW-12I	633.06	7.78	625.28	NA	NA	NO
MW-13S	631.23	NO ACCESS	631.23	NA	NA	NO
MW-13I	630.66	NO ACCESS	630.66	NA	NA	NO
MW-14S	628.41	3.67	624.74	NA	NA	NO
MW-14I	628.23	3.33	624.90	NA	NA	NO
MW-14D	628.53	0.76	627.77	NA	NA	NO
MW-15S	636.77	11.18	625.59	NA	NA	NO
MW-15I	636.66	11.08	625.58	NA	NA	NO
MW-16S	634.47	8.30	626.17	NA	NA	NO
MW-16I	634.96	8.84	626.12	NA	NA	NO
MW-17S	634.79	8.95	625.84	NA	NA	NO
MW-17D	634.86	9.00	625.86	NA	NA	NO
MW-18S	631.26	5.99	625.27	NA	NA	NO
MW-18I	631.04	5.58	625.46	NA	NA	NO

** 11-Mar-91**

L.E. CARPENTER AND COMPANY, WHARTON, NEW JERSEY
WATER LEVEL MEASUREMENTS, DEPTH TO WATER AND PRODUCT THICKNESS DATA
21 NOVEMBER 1990

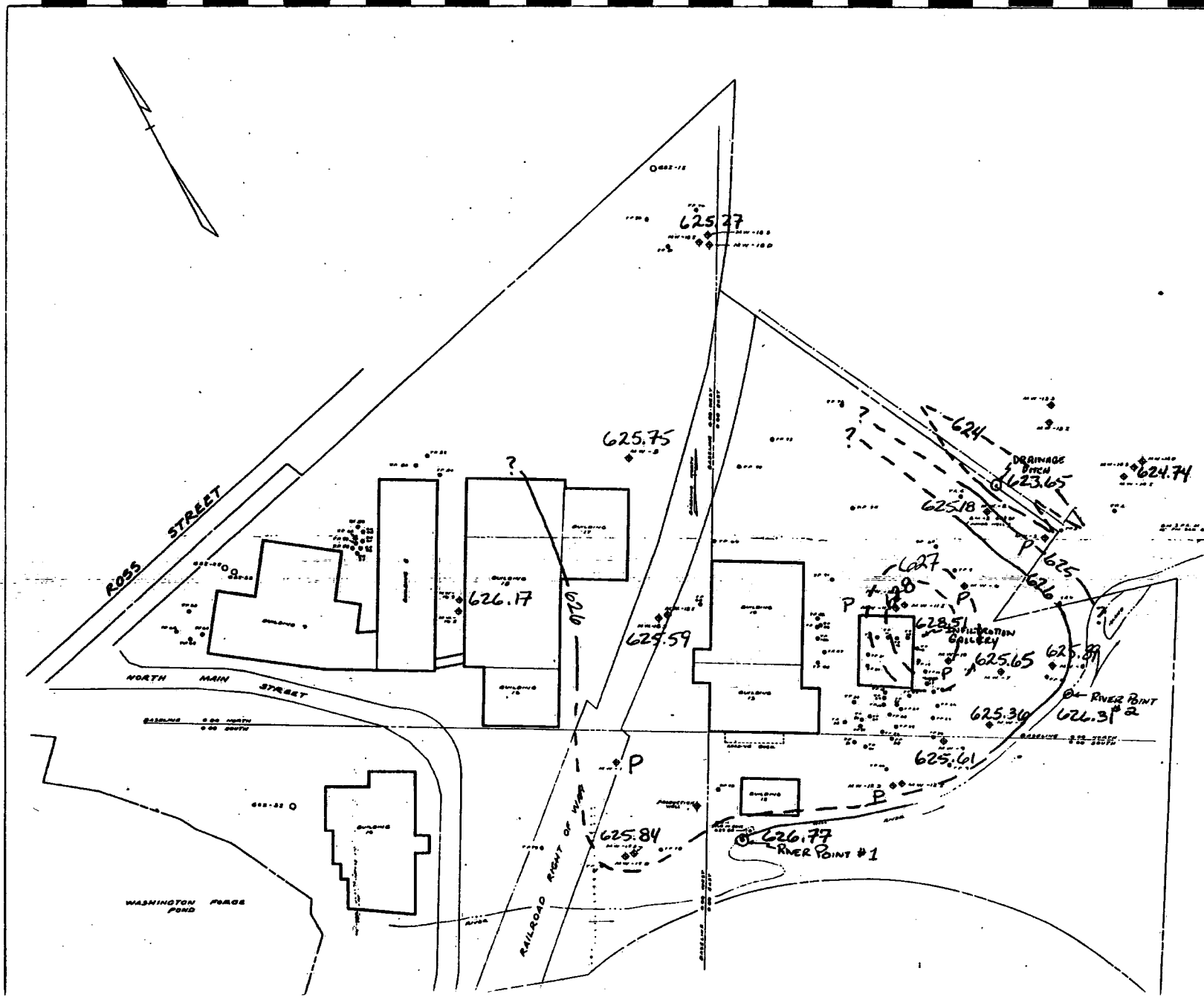
LOCATION	MEASURING POINT ELEV. (Ft. MSL)	DEPTH TO WATER (Ft.)	WATER LEVEL ELEV. (Ft. MSL)	DEPTH TO WATER IN GEOMON (Ft.)	WATER LEVEL ELEV. (Ft. MSL) IN GEOMON	THICKNESS OF PRODUCT (Ft.)
MW-18D	630.77	3.58	627.19	NA	NA	NO
PRODUCTION WELL	635.41	9.84	625.57	NA	NA	NO
GEI-01I	630.78	5.25	625.53	NA	NA	NO
GEI-02S	637.67	11.38	626.29	NA	NA	NO
GEI-02I	638.20	11.41	626.79	NA	NA	NO
GEI-03I	639.85	13.51	626.34	NA	NA	NO

SURVEY INFORMATION (Ft.): SURFACE WATER ELEVATIONS

LOCATION	FORESHOT READING	MINUS INSTRUMENT ELEVATION	BACKSHOT READING	PLUS TURNING POINT ELEV.	ELEVATION (Ft. MSL)
BM (BENCHMARK)-2					633.57
I (INSTRUMENT)-1			1.2	BM-2	634.77
DRAINAGE CHANNEL	11.12	I-1			623.65
INFILTRATION GALLERY	6.26	I-1			628.51
RIVER POINT #2	8.46	I-1			626.31
BM-3					626.47
I-2			3.83	BM-3	630.30
RIVER POINT #3	5.76	I-2			624.54
BM-1					629.85
I-3			5.17	BM-1	635.02
RIVER POINT #1	8.25	I-3			626.77

NR = NOT REPORTED
NA = NOT APPLICABLE, GEOMON IN MONITORING WELLS MW-01 THROUGH MW-05 ONLY
NO = NOT OBSERVED DURING WATER LEVEL MEASUREMENT
NO ACCESS = ACCESS TO WELL DENIED BY AIR PRODUCTS

** 11-Mar-91**



BASELINE LOCATION	WELL	GEOGRAPHIC LOCATION LATITUDE	LONGITUDE	ELEVATIONS GROUND	TOP OF PIPE	[illegible]
[illegible]	MW-1	40° 54' 13.8"	74° 34' 33.6"	[illegible]	[illegible]	[illegible]
[illegible]	MW-2	40° 54' 14.8"	74° 34' 33.2"	[illegible]	[illegible]	[illegible]
[illegible]	MW-3	40° 54' 14.6"	74° 34' 32.6"	[illegible]	[illegible]	[illegible]
[illegible]	MW-4	40° 54' 12.6"	74° 34' 34.0"	[illegible]	[illegible]	[illegible]
[illegible]	MW-5	40° 54' 14.7"	74° 34' 32.4"	[illegible]	[illegible]	[illegible]
[illegible]	MW-6	40° 54' 13.9"	74° 34' 33.9"	[illegible]	[illegible]	[illegible]
[illegible]	MW-7	40° 54' 12.9"	74° 34' 34.0"	[illegible]	[illegible]	[illegible]
[illegible]	MW-8	40° 54' 12.7"	74° 34' 33.3"	[illegible]	[illegible]	[illegible]
[illegible]	MW-9	40° 54' 12.8"	74° 34' 32.4"	[illegible]	[illegible]	[illegible]
[illegible]	MW-10	40° 54' 12.8"	74° 34' 34.6"	[illegible]	[illegible]	[illegible]
[illegible]	MW-11	40° 54' 14.0"	74° 34' 34.9"	[illegible]	[illegible]	[illegible]
[illegible]	MW-12	40° 54' 14.0"	74° 34' 34.0"	[illegible]	[illegible]	[illegible]
[illegible]	MW-13	40° 54' 14.1"	74° 34' 34.0"	[illegible]	[illegible]	[illegible]
[illegible]	MW-14	40° 54' 13.8"	74° 34' 34.6"	[illegible]	[illegible]	[illegible]
[illegible]	MW-15	40° 54' 13.3"	74° 34' 34.0"	[illegible]	[illegible]	[illegible]
[illegible]	MW-15.1	40° 54' 13.2"	74° 34' 33.9"	[illegible]	[illegible]	[illegible]
[illegible]	MW-15.2	40° 54' 13.3"	74° 34' 31.7"	[illegible]	[illegible]	[illegible]
[illegible]	MW-15.3	40° 54' 13.1"	74° 34' 31.9"	[illegible]	[illegible]	[illegible]
[illegible]	MW-16.1	40° 54' 14.3"	74° 34' 34.0"	[illegible]	[illegible]	[illegible]
[illegible]	MW-16.2	40° 54' 14.2"	74° 34' 34.1"	[illegible]	[illegible]	[illegible]
[illegible]	MW-16.3	40° 54' 14.1"	74° 34' 34.0"	[illegible]	[illegible]	[illegible]
[illegible]	MW-16.4	40° 54' 14.0"	74° 34' 33.0"	[illegible]	[illegible]	[illegible]
[illegible]	MW-16.5	40° 54' 14.0"	74° 34' 33.0"	[illegible]	[illegible]	[illegible]
[illegible]	MW-16.6	40° 54' 14.0"	74° 34' 33.1"	[illegible]	[illegible]	[illegible]
[illegible]	MW-16.7	40° 54' 14.0"	74° 34' 33.0"	[illegible]	[illegible]	[illegible]
[illegible]	MW-16.8	40° 54' 14.0"	74° 34' 33.1"	[illegible]	[illegible]	[illegible]
[illegible]	MW-17.1	40° 54' 13.9"	74° 34' 33.7"	[illegible]	[illegible]	[illegible]
[illegible]	MW-17.2	40° 54' 13.9"	74° 34' 33.7"	[illegible]	[illegible]	[illegible]
[illegible]	MW-17.3	40° 54' 13.9"	74° 34' 33.7"	[illegible]	[illegible]	[illegible]
[illegible]	MW-17.4	40° 54' 13.9"	74° 34' 33.8"	[illegible]	[illegible]	[illegible]
[illegible]	MW-18.1	40° 54' 13.6"	74° 34' 33.0"	[illegible]	[illegible]	[illegible]
[illegible]	MW-18.2	40° 54' 13.6"	74° 34' 33.1"	[illegible]	[illegible]	[illegible]
[illegible]	MW-18.3	40° 54' 13.6"	74° 34' 33.1"	[illegible]	[illegible]	[illegible]
[illegible]	MW-18.4	40° 54' 13.6"	74° 34' 33.1"	[illegible]	[illegible]	[illegible]
[illegible]	002-12	40° 54' 13.3"	74° 34' 33.3"	[illegible]	[illegible]	[illegible]
[illegible]	002-13	40° 54' 13.0"	74° 34' 33.0"	[illegible]	[illegible]	[illegible]
[illegible]	002-14	40° 54' 13.0"	74° 34' 33.1"	[illegible]	[illegible]	[illegible]
[illegible]	002-15	40° 54' 13.0"	74° 34' 33.0"	[illegible]	[illegible]	[illegible]
[illegible]	PRODUCTION WELL	40° 54' 13.0"	74° 34' 33.0"	[illegible]	[illegible]	—

SCALE (APPROX)

0 50 100 200

REVISIONS

SURVEY AT
BOROUGH OF WHARTON MORRIS COUNTY, N.J.

LOCATION AND ELEVATION OF MONITOR WELLS

Shallow Zone - Water Table Surface
November 21, 1990

P = Product Present

- - - - Water Table Surface Contour, Dashed where inferred

? Unknown

WESTON

DECEMBER 1990

WATER LEVEL AND PRODUCT THICKNESS DATA AND WATER LEVEL ELEVATION CONTOUR MAP

L.E. CARPENTER AND COMPANY, WHARTON, NEW JERSEY
WATER LEVEL MEASUREMENTS, DEPTH TO WATER AND PRODUCT THICKNESS DATA
18 DECEMBER 1990

LOCATION	MEASURING POINT ELEV. (Ft. MSL)	DEPTH TO WATER (Ft.)	WATER LEVEL ELEV. (Ft. MSL)	DEPTH TO WATER IN GEOMON (Ft.)	WATER LEVEL ELEV. (Ft. MSL) IN GEOMON	THICKNESS OF PRODUCT (Ft.)
MW-01	639.18	13.47	625.71	12.60	626.58	1.17
MW-02	633.57	7.72	625.85	7.52	626.05	NO
MW-03	632.56	7.64	624.92	6.60	625.96	2.00
MW-04	632.50	6.67	625.83	6.45	626.05	NO
MW-05	632.42	6.05	626.37	6.13	626.29	NO
MW-06	632.00	6.35	625.65	NA	NA	1.00
MW-07	630.68	4.14	626.54	NA	NA	NO
MW-08	628.79	1.98	626.81	NA	NA	NO
MW-09	630.18	3.96	626.22	NA	NA	NO
MW-10	629.96	6.30	623.66	NA	NA	1.00
MW-11S	632.96	12.36	620.60	NA	NA	5.98
MW-11I	632.82	6.78	626.04	NA	NA	NO
MW-11D	632.42	3.53	628.89	NA	NA	NO
MW-12S	633.18	7.33	625.85	NA	NA	0.55
MW-12I	633.06	6.96	626.10	NA	NA	NO
MW-13S	631.23	NO ACCESS	631.23	NA	NA	NO
MW-13I	630.66	NO ACCESS	630.66	NA	NA	NO
MW-14S	628.41	2.99	625.42	NA	NA	NO
MW-14I	628.23	2.65	625.58	NA	NA	NO
MW-14D	628.53	ARTESIAN	628.53	NA	NA	NO
MW-15S	636.77	10.45	626.32	NA	NA	NO
MW-15I	636.66	10.31	626.35	NA	NA	NO
MW-16S	634.47	7.44	627.03	NA	NA	NO
MW-16I	634.96	8.03	626.93	NA	NA	NO
MW-17S	634.79	8.13	626.66	NA	NA	NO
MW-17D	634.86	8.18	626.68	NA	NA	NO
MW-18S	631.26	5.52	625.74	NA	NA	NO
MW-18I	631.04	5.02	626.02	NA	NA	NO

** 11-Mar-91**

L.E. CARPENTER AND COMPANY, WHARTON, NEW JERSEY
WATER LEVEL MEASUREMENTS, DEPTH TO WATER AND PRODUCT THICKNESS DATA
18 DECEMBER 1990

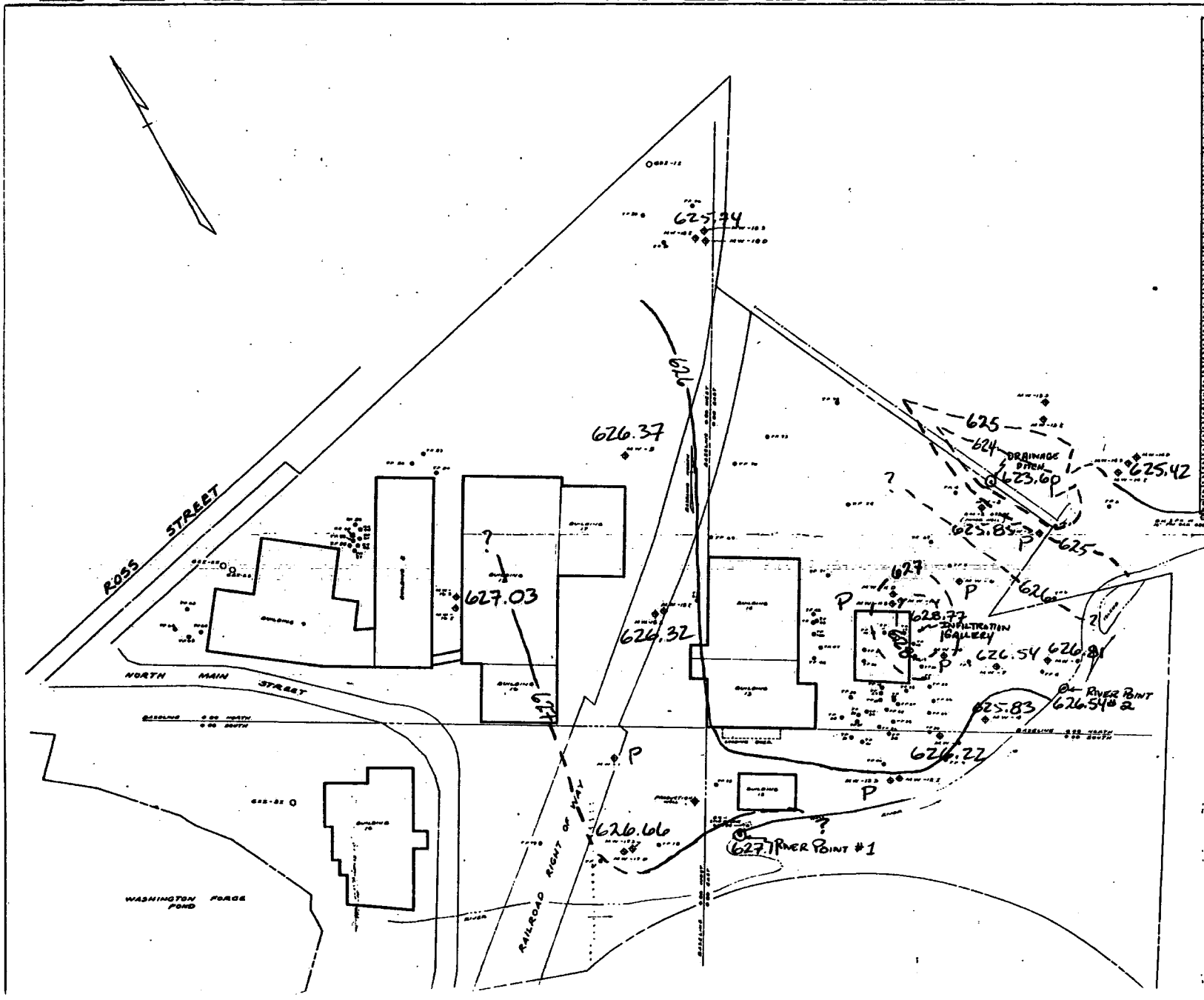
LOCATION	MEASURING POINT ELEV. (Ft. MSL)	DEPTH TO WATER (Ft.)	WATER LEVEL ELEV. (Ft. MSL)	DEPTH TO WATER IN GEOMON (Ft.)	WATER LEVEL ELEV. (Ft. MSL) IN GEOMON	THICKNESS OF PRODUCT (Ft.)
MW-18D	630.77	2.58	628.19	NA	NA	NO
PRODUCTION WELL	635.41	9.01	626.40	NA	NA	NO
GEI-01I	630.78	4.66	626.12	NA	NA	NO
GEI-02S	637.67	10.66	627.01	NA	NA	NO
GEI-02I	638.20	10.60	627.60	NA	NA	NO
GEI-03I	639.85	12.66	627.19	NA	NA	NO

SURVEY INFORMATION (Ft.): SURFACE WATER ELEVATIONS

LOCATION	FORESHOT READING	MINUS INSTRUMENT ELEVATION	BACKSHOT READING	PLUS TURNING POINT ELEV.	ELEVATION (Ft. MSL)
BM (BENCHMARK)-2					633.57
I (INSTRUMENT)-1			2.40	BM-2	635.97
DRAINAGE CHANNEL	12.37	I-1			623.60
INFILTRATION GALLERY	7.20	I-1			628.77
RIVER POINT #2	9.43	I-1			626.54
BM-3					626.47
I-2			3.88	BM-3	630.35
RIVER POINT #3	5.54	I-2			624.81
BM-1					629.85
I-3			5.26	BM-1	635.11
RIVER POINT #1	8.00	I-3			627.11

NR = NOT REPORTED
NA = NOT APPLICABLE, GEOMON IN MONITORING WELLS MW-01 THROUGH MW-05 ONLY
NO = NOT OBSERVED DURING WATER LEVEL MEASUREMENT
NO ACCESS = ACCESS TO WELL DENIED BY AIR PRODUCTS

** 11-Mar-91**



BASELINE LOCATION	WELL	GEOGRAPHIC LOCATION LATITUDE	LONGITUDE	ELEVATIONS GROUND	WATER LEVEL
NORTH 20.88' WEST 07.87'	MW-1	40° 56' 12.0"	74° 34' 29.4"	630.61	630.07
NORTH 243.99 EAST 274.87	MW-2	40° 56' 14.0"	74° 34' 28.8"	630.07	628.39
SOUTH 214.53 EAST 256.53	MW-3	40° 56' 14.0"	74° 34' 28.0"	628.69	628.27
NORTH 12.26' EAST 300.94	MW-4	40° 56' 12.4"	74° 34' 26.4"	628.86	628.21
NORTH 250.49 WEST 90.12	MW-5	40° 56' 16.7"	74° 34' 27.4"	629.81	628.80
NORTH 163.53 EAST 271.23	MW-6	40° 56' 15.9"	74° 34' 28.9"	630.84	628.77
NORTH 90.74 EAST 243.16	MW-7	40° 56' 12.9"	74° 34' 29.0"	629.99	628.16
NORTH 76.24 EAST 243.23	MW-8	40° 56' 12.7"	74° 34' 28.8"	629.99	628.06
SOUTH 4.71 EAST 232.10	MW-9	40° 56' 12.8	74° 34' 28.1"	629.81	627.49
NORTH 21.42 WEST 220.74	MW-10	40° 56' 13.6"	74° 34' 24.6"	630.88	631.88
NORTH 127.18 WEST 195.32	MW-11	40° 56' 14.0"	74° 34' 24.9"	631.83	632.26
NORTH 141.12 EAST 300.23	MW-12	40° 56' 14.0"	74° 34' 24.0"	631.00	633.08
NORTH 141.12 EAST 199.87	MW-13	40° 56' 14.1"	74° 34' 24.0"	631.00	633.60
SOUTH 23.32 WEST 250.04	MW-14	40° 56' 13.3"	74° 34' 26.0"	630.83	633.71
SOUTH 20.00 EAST 204.41	MW-15	40° 56' 13.3"	74° 34' 28.9"	629.90	633.83
NORTH 329.32 EAST 304.32	MW-16	40° 56' 13.3"	74° 34' 31.7"	630.34	634.00
NORTH 340.70 EAST 326.03	MW-17	40° 56' 12.1"	74° 34' 31.1"	630.86	630.88
NORTH 274.00 EAST 426.46	MW-18	40° 56' 13.3"	74° 34' 31.0"	628.78	630.63
NORTH 264.30 EAST 441.51	MW-19	40° 56' 13.3"	74° 34' 31.3"	628.93	630.35
NORTH 262.00 EAST 463.00	MW-20	40° 56' 12.3"	74° 34' 30.9"	628.08	630.80
NORTH 121.48 WEST 88.24	MW-21	40° 56' 15.0"	74° 34' 30.0"	629.82	627.03
NORTH 159.98 WEST 44.82	MW-22	40° 56' 15.0"	74° 34' 31.9"	629.79	630.88
NORTH 158.48 WEST 267.63	MW-23	40° 56' 13.9"	74° 34' 29.4"	630.87	630.69
NORTH 129.00 WEST 444.43	MW-24	40° 56' 15.0"	74° 34' 44.0"	628.43	630.98
SOUTH 121.41 WEST 77.94	MW-25	40° 56' 12.0"	74° 34' 28.7"	628.98	630.93
SOUTH 120.41 WEST 84.44	MW-26	40° 56' 12.0"	74° 34' 29.0"	628.83	630.86
NORTH 220.00 WEST 70.00	MW-27	40° 56' 15.0"	74° 34' 28.0"	628.33	630.48
NORTH 249.27 WEST 12.12	MW-28	40° 56' 12.4"	74° 34' 28.2"	633.38	631.19
NORTH 220.77 WEST 8.38	MW-29	40° 56' 12.0"	74° 34' 28.1"	630.81	631.00
NORTH 264.32 WEST 64.07	BG2-12	40° 56' 12.3"	74° 34' 28.3"	630.40	630.93
NORTH 264.32 WEST 264.40	BG2-13	40° 56' 12.3"	74° 34' 43.0"	631.96	631.07
NORTH 193.00 WEST 204.70	BG2-22	40° 56' 12.0"	74° 34' 43.1"	631.96	630.36
NORTH 204.32 WEST 42.12	BG2-32	40° 56' 12.0"	74° 34' 43.7"	631.84	630.99
NORTH 204.32 EAST 15.12	PRODUCTION WELL	40° 56' 12.0"	74° 34' 28.5"	631.48	630.41

SCALE (Approx)

0 50 100 200

REVISIONS	SURVEY AT BOROUGH OF WHARTON MORRIS COUNTY, N.J.
	LOCATION AND ELEVATION OF MONITOR WELLS

SHALLOW Zone – Water Table Surface
December 18, 1990

P = PRODUCT PRESENT

— — — Water Table Surface Contour Dashed where inferred

WESTON

JANUARY 1991

WATER LEVEL AND PRODUCT THICKNESS DATA
AND
WATER LEVEL ELEVATION CONTOUR MAP

L.E. CARPENTER AND COMPANY, WHARTON, NEW JERSEY
WATER LEVEL MEASUREMENTS, DEPTH TO WATER AND PRODUCT THICKNESS DATA
7 JANUARY 1991

LOCATION	MEASURING POINT ELEV. (Ft. MSL)	DEPTH TO WATER (Ft.)	WATER LEVEL ELEV. (Ft. MSL)	DEPTH TO WATER IN GEOMON (Ft.)	WATER LEVEL ELEV. (Ft. MSL) IN GEOMON	THICKNESS OF PRODUCT (Ft.)
MW-01	639.18	13.35	625.83	12.62	626.56	1.14
MW-02	633.57	7.58	625.99	7.42	626.15	NO
MW-03	632.56	7.58	624.98	6.92	625.64	1.08
MW-04	632.50	6.25	626.25	6.45	626.05	NO
MW-05	632.42	5.89	626.53	6.08	626.34	NO
MW-06	632.00	6.97	625.03	NA	NA	1.45
MW-07	630.68	4.42	626.26	NA	NA	NO
MW-08	628.79	2.65	626.14	NA	NA	NO
MW-09	630.18	3.86	626.32	NA	NA	NO
MW-10	629.96	6.70	623.26	NA	NA	1.50
MW-11S	632.96	13.75	619.21	NA	NA	7.29
MW-11I	632.82	6.65	626.17	NA	NA	NO
MW-11D	632.42	3.20	629.22	NA	NA	NO
MW-12S	633.18	7.04	626.14	NA	NA	1.02
MW-12I	633.06	6.82	626.24	NA	NA	NO
MW-13S	631.23	NO ACCESS	631.23	NA	NA	NO
MW-13I	630.66	NO ACCESS	630.66	NA	NA	NO
MW-14S	628.41	2.91	625.50	NA	NA	NO
MW-14I	628.23	2.51	625.72	NA	NA	NO
MW-14D	628.53	ARTESIAN	628.53	NA	NA	NO
MW-15S	636.77	10.28	626.49	NA	NA	NO
MW-15I	636.66	10.15	626.51	NA	NA	NO
MW-16S	634.47	7.32	627.15	NA	NA	NO
MW-16I	634.96	7.84	627.12	NA	NA	NO
MW-17S	634.79	7.93	626.86	NA	NA	NO
MW-17D	634.86	7.98	626.88	NA	NA	NO
MW-18S	631.26	5.41	625.85	NA	NA	NO
MW-18I	631.04	4.85	626.19	NA	NA	NO

** 11-Mar-91**

L.E. CARPENTER AND COMPANY, WHARTON, NEW JERSEY
WATER LEVEL MEASUREMENTS, DEPTH TO WATER AND PRODUCT THICKNESS DATA
7 JANUARY 1991

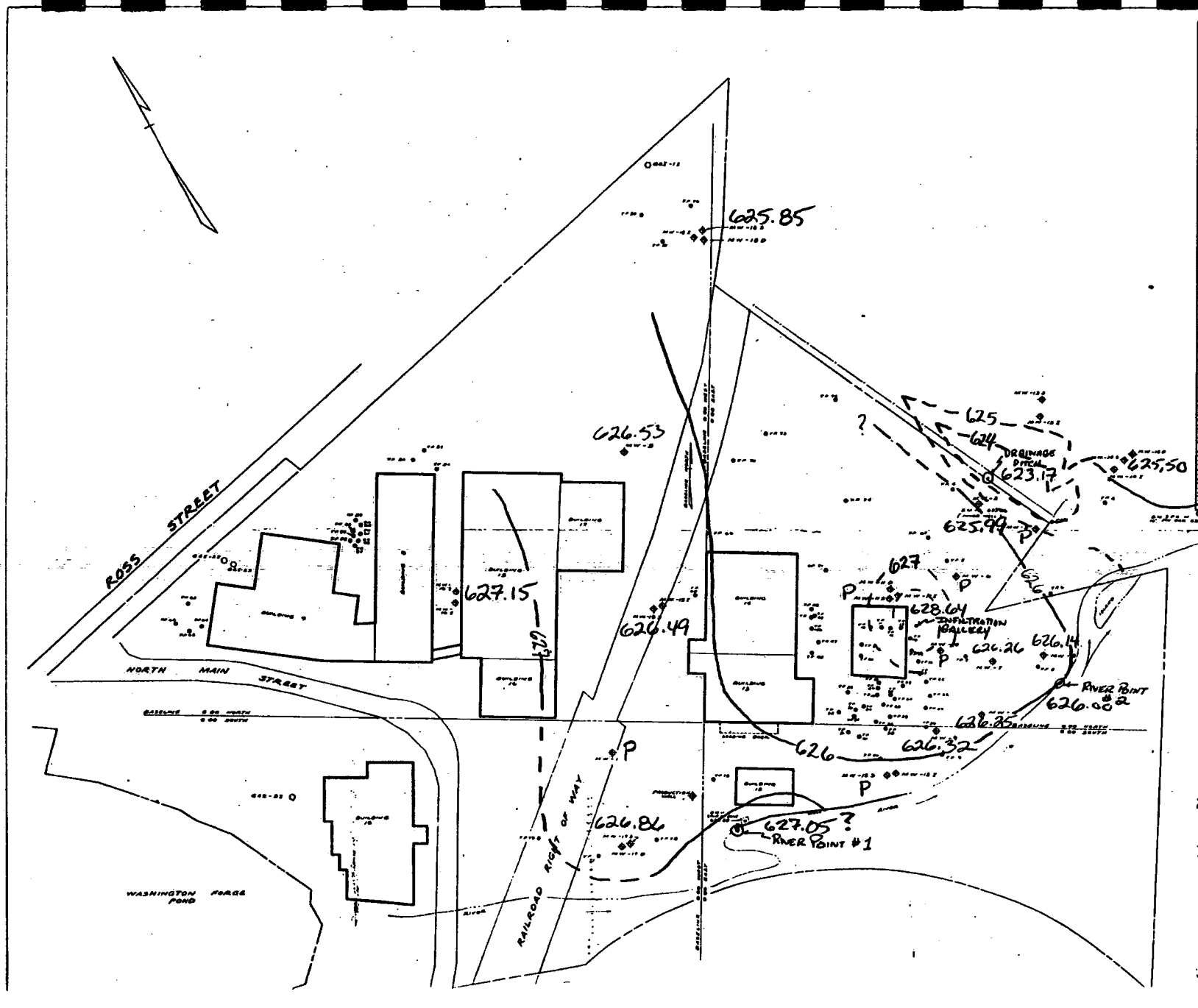
LOCATION	MEASURING POINT ELEV. (Ft. MSL)	DEPTH TO WATER (Ft.)	WATER LEVEL ELEV. (Ft. MSL)	DEPTH TO WATER IN GEOMON (Ft.)	WATER LEVEL ELEV. (Ft. MSL) IN GEOMON	THICKNESS OF PRODUCT (Ft.)
MW-18D	630.77	2.24	628.53	NA	NA	NO
PRODUCTION WELL	635.41	8.85	626.56	NA	NA	NO
GEI-01I	630.78	4.49	626.29	NA	NA	NO
GEI-02S	637.67	10.37	627.30	NA	NA	NO
GEI-02I	638.20	10.33	627.87	NA	NA	NO
GEI-03I	639.85	12.42	627.43	NA	NA	NO

SURVEY INFORMATION (Ft.): SURFACE WATER ELEVATIONS

LOCATION	FORESHOT READING	MINUS INSTRUMENT ELEVATION	BACKSHOT READING	PLUS TURNING POINT ELEV.	ELEVATION (Ft. MSL)
BM (BENCHMARK)-2					633.57
I (INSTRUMENT)-1			1.56	BM-2	635.13
DRAINAGE CHANNEL	11.96	I-1			623.17
INFILTRATION GALLERY	6.67	I-1			628.46
RIVER POINT #2	9.13	I-1			626.00
BM-3					626.47
I-2			3.91	BM-3	630.38
RIVER POINT #3	5.63	I-2			624.75
BM-1					629.85
I-3			4.58	BM-1	634.43
RIVER POINT #1	7.38	I-3			627.05

NR = NOT REPORTED
NA = NOT APPLICABLE, GEOMON IN MONITORING WELLS MW-01 THROUGH MW-05 ONLY
NO = NOT OBSERVED DURING WATER LEVEL MEASUREMENT
NO ACCESS = ACCESS TO WELL DENIED BY AIR PRODUCTS

** 11-Mar-91**



GASOLINE LOCATION	WELL	GEOGRAPHIC LOCATION LATITUDE	LONGITUDE	ELEVATIONS GROUND	TOP OF PIPE	[illegible]
SOUTH 33.83' EAST 57.83'	MW-1	40° 54' 15.8"	74° 34' 29.4"	638.41	638.97	63[illegible]
NORTH 283.50 EAST 494.87	MW-2	40° 54' 16.5"	74° 34' 33.2"	639.07	638.99	63[illegible]
NORTH 216.83 EAST 334.38	MW-3	40° 54' 16.0"	74° 34' 35.4"	638.64	638.57	63[illegible]
NORTH 12.94 EAST 300.72	MW-4	40° 54' 15.4"	74° 34' 34.4"	638.84	638.51	63[illegible]
NORTH 144.00 WEST 96.15	MW-5	40° 54' 16.7"	74° 34' 32.4"	639.81	638.80	63[illegible]
NORTH 145.13 EAST 321.23	MW-6	40° 54' 15.9"	74° 34' 33.9"	638.84	638.77	63[illegible]
NORTH 78.74 EAST 215.40	MW-7	40° 54' 15.9"	74° 34' 34.0"	639.99	638.18	63[illegible]
NORTH 75.25 EAST 349.23	MW-8	40° 54' 15.7"	74° 34' 33.5"	637.99	638.86	63[illegible]
SOUTH 4.33 EAST 552.41	MW-9	40° 54' 15.8	74° 34' 32.1"	639.81	638.69	63[illegible]
NORTH 81.43 EAST 455.12	MW-10	40° 54' 15.5"	74° 34' 34.6"	638.83	638.88	63[illegible]
NORTH 127.43 EAST 199.23	MW-11.1	40° 54' 14.0"	74° 34' 34.0"	637.83	638.86	63[illegible]
NORTH 145.13 EAST 200.23	MW-11.2	40° 54' 14.0"	74° 34' 34.0"	637.80	638.68	63[illegible]
NORTH 147.99 EAST 199.23	MW-11.0	40° 54' 14.1"	74° 34' 34.0"	638.00	638.66	63[illegible]
SOUTH 33.33 EAST 199.04	MW-12.5	40° 54' 15.5"	74° 34' 36.0"	639.43	638.71	63[illegible]
NORTH 30.00 EAST 209.9	MW-12.2	40° 54' 15.5"	74° 34' 35.9"	639.98	638.85	63[illegible]
NORTH 209.57 EAST 300.25	MW-13.5	40° 54' 15.5"	74° 34' 31.7"	638.34	638.46	63[illegible]
NORTH 300.94 EAST 336.03	MW-13.2	40° 54' 15.1"	74° 34' 31.9"	638.36	638.66	63[illegible]
NORTH 80.00 EAST 484.43	MW-14.2	40° 54' 15.9"	74° 34' 29.0"	638.70	638.68	63[illegible]
NORTH 283.30 EAST 484.43	MW-14.5	40° 54' 15.3"	74° 34' 31.5"	638.93	638.35	63[illegible]
NORTH 145.43 EAST 483.43	MW-14.0	40° 54' 14.5"	74° 34' 29.9"	639.08	638.88	63[illegible]
NORTH 121.43 WEST 88.72	MW-15.3	40° 54' 15.0"	74° 34' 28.0"	639.03	638.83	63[illegible]
NORTH 182.90 EAST 88.72	MW-15.2	40° 54' 15.0"	74° 34' 27.9"	638.70	638.60	63[illegible]
NORTH 182.90 EAST 483.43	MW-16.5	40° 54' 15.9"	74° 34' 46.4"	638.87	638.69	63[illegible]
NORTH 182.90 EAST 500.23	MW-16.2	40° 54' 15.0"	74° 34' 46.8"	638.40	638.68	63[illegible]
SOUTH 121.11 WEST 75.24	MW-17.5	40° 54' 15.0"	74° 34' 28.7"	638.98	638.98	63[illegible]
NORTH 123.41 EAST 88.43	MW-17.0	40° 54' 15.0"	74° 34' 29.0"	638.83	638.86	63[illegible]
NORTH 326.90 WEST 75.24	MW-18.3	40° 54' 15.0"	74° 34' 28.8"	638.88	638.48	63[illegible]
NORTH 349.37 WEST 75.24	MW-18.2	40° 54' 15.0"	74° 34' 28.8"	638.38	638.19	63[illegible]
NORTH 326.71 WEST 5.30	MW-18.0	40° 54' 15.0"	74° 34' 28.1"	638.81	638.09	63[illegible]
[illegible] EAST 94.87	662-12	40° 54' 15.5"	74° 34' 28.8"	638.44	638.83	63[illegible]
NORTH 140.00 EAST 527.40	662-13	40° 54' 15.5"	74° 34' 45.0"	638.46	638.87	63[illegible]
NORTH 200.00 EAST 200.00	662-12	40° 54' 17.0"	74° 34' 48.1"	638.98	638.38	63[illegible]
NORTH 200.00 EAST 12.12	662-12	40° 54' 14.0"	74° 34' 45.7"	637.86	638.99	63[illegible]
NORTH 80.00 EAST 12.12	WASHINGTON FORGE	40° 54' 13.0"	74° 34' 38.0"	638.41	638.41	—

SCALE (APPROX)

0 50 100 200

REVISIONS	SURVEY AT BOROUGH OF WHARTON MORRIS COUNTY, N.J.
	LOCATION AND ELEVATION OF MONITOR WELLS
	L.E. CARPENTER & COMPANY PROJ.

Shallow Zone - Water Table Surface
January 7, 1991

P = Product Present

---- Water Table Surface Contour, dashed where inferred.

? Unknown

L. E. CARPENTER AND COMPANY

WHARTON, NEW JERSEY FACILITY

GROUNDWATER SAMPLING RESULTS
AND
LABORATORY ANALYTICAL DATA REPEORT

NOVEMBER 1990 SAMPLING

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

DATE RECEIVED: 11/29/90 RFW LOT # :9011L775

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
MW1	001	W	90LVY242	11/28/90	N/A	12/05/90
MW2	002	W	90LVY242	11/28/90	N/A	12/05/90
MW3	003	W	90LVY243	11/28/90	N/A	12/06/90
MW3	003 D1	W	90LVY242	11/28/90	N/A	12/05/90
MW4	004	W	90LVY242	11/28/90	N/A	12/05/90
MW4	004 MS	W	90LVY242	11/28/90	N/A	12/05/90
MW4	004 MSD	W	90LVY242	11/28/90	N/A	12/05/90
MW5	005	W	90LVY242	11/28/90	N/A	12/05/90
FIELD BLANK	006	W	90LVY242	11/28/90	N/A	12/05/90
TRIP BLANK	007	W	90LVY242	11/28/90	N/A	12/05/90

LAB QC:

VBLK	MB1	W	90LVY242	N/A	N/A	12/05/90
VBLK	MB1	W	90LVY243	N/A	N/A	12/06/90

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b. HSL Spectra
c. TIC Spectra
d. GC/MS Library Search for TIC

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CHAIN OF CUSTODY

Custody Transfer Record/Lab Work Request

WESTON

WESTON Analytics Use Only
90115

Client: LE Carpenter
Work Order: 3600 04 90
Date Rec'd.: 11-28-90 Date Due: 12/29/90 (11/29/90)
RFW Contact:
Client Contact/Phone:

Refrigerator#	1										
#/Type Container	3/GL										
Volume	40ml										
Preservative	HCL										
ANALYSES REQUESTED	PP	Xylene									
	VOA	624P									

WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected	PP	Xylene						
001	WSI LE Carpenter MW 1	Water	11-28-90	X	X						
2	MW 2										
3	MW 3										
4	MW 4										
5	MW 5										
6	Field Blank										
7	Trip Blank										
	~~Field Blank~~										
	VOA = 624P + Xylene										

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

Special Instructions: Full CLP

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
	[illegible]	[illegible]	11-28-90	16:00					
CCC	[illegible]	[illegible]	11-29-90	7:30					

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed) Y N
NOTES:

4 Properly Preserved Y N
NOTES:

5 Received Within Holding Times Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

RFW 21-21-001/A-12/88 C#241 RH 38605

*only Received one Field Blank

7-115

DATA SUMMARY

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

RFW Batch Number: 9011L775 Client: WSI-LE CARPENTER Work Order: 3600-04-90-0000 Report Date: 01/03/91 15:25 Page: 1a

	Cust ID:	MW1		MW2		MW3		MW3		MW4		MW4	
Sample Information	RFW#:	001		002		003		003 DL		004		004 MS	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	100		1.00		25.0		100		1.00		1.00	
	Units:	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	Toluene-d8	102	%	100	%	103	%	100	%	99	%	99	%
	Bromofluorobenzene	103	%	103	%	99	%	103	%	98	%	101	%
	1,2-Dichloroethane-d4	110	%	96	%	101	%	101	%	88	%	99	%
			fl		fl		fl		fl		fl		fl
Chloromethane		1000	U	10	U	250	U	NA		10	U	10	U
Bromomethane		1000	U	10	U	250	U	NA		10	U	10	U
Vinyl Chloride		1000	U	10	U	250	U	NA		10	U	10	U
Chloroethane		1000	U	10	U	250	U	NA		10	U	10	U
Methylene Chloride		3200	B	25	B	830	B	NA		17	B	34	B
1,1-Dichloroethene		500	U	5	U	120	U	NA		5	U	101	%
1,1-Dichloroethane		500	U	5	U	120	U	NA		5	U	5	U
1,2-Dichloroethene (total)		500	U	5	U	120	U	NA		5	U	5	U
Chloroform		500	U	5	U	120	U	NA		5	U	5	U
1,2-Dichloroethane		500	U	5	U	120	U	NA		5	U	5	U
1,1,1-Trichloroethane		500	U	5	U	120	U	NA		5	U	5	U
Carbon Tetrachloride		500	U	5	U	120	U	NA		5	U	5	U
Bromodichloromethane		500	U	5	U	120	U	NA		5	U	5	U
1,2-Dichloropropane		500	U	5	U	120	U	NA		5	U	5	U
cis-1,3-Dichloropropene		500	U	5	U	120	U	NA		5	U	5	U
Trichloroethene		500	U	5	U	120	U	NA		5	U	90	%
Dibromochloromethane		500	U	5	U	120	U	NA		5	U	5	U
1,1,2-Trichloroethane		500	U	5	U	120	U	NA		5	U	5	U
Benzene		500	U	5	U	120	U	NA		5	U	96	%
Trans-1,3-Dichloropropene		500	U	5	U	120	U	NA		5	U	5	U
2-chloroethylvinylether		1000	U	10	U	250	U	NA		10	U	10	U
Bromoform		500	U	5	U	120	U	NA		5	U	5	U
Tetrachloroethene		500	U	5	U	120	U	NA		5	U	5	U
1,1,2,2-Tetrachloroethane		500	U	5	U	120	U	NA		5	U	5	U
Toluene		500	U	5	U	120	U	NA		5	U	87	%
Chlorobenzene		500	U	5	U	120	U	NA		5	U	89	%
Ethylbenzene		4700		5	U	3800		NA		5	U	5	U
1,2-Dichlorobenzene		500	U	5	U	120	U	NA		5	U	5	U
1,3-Dichlorobenzene		500	U	5	U	29	J	NA		5	U	5	U

*= Outside of EPA CLP QC limits.

Q 5

Cust ID:	MW1		MW2		MW3		MW3	MW4		MW4	
RFW#:	001		002		003		003 DL	004		004 MS	
1,4-Dichlorobenzene	500	U	5	U	120	U	NA	5	U	5	U
Acrolein	1000	U	10	U	250	U	NA	10	U	10	U
Acrylonitrile	1000	U	10	U	250	U	NA	10	U	10	U
Trichlorofluoromethane	500	U	5	U	120	U	NA	5	U	5	U
Xylene (total)	27000		22			E	15000	5	U	5	U

*= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Lionville Laboratory

Volatiles by GC/MS, Priority Pollutant List

RFW Batch Number: 9011L775 Client: WSI-LE CARPENTER Work Order: 3600-04-90-0000 Report Date: 01/03/91 15:25 Page: 2a

	Cust ID:	MW4	MW5	FIELD BLANK	TRIP BLANK	VBLK	VBLK
Sample Information	RFW#:	004 MSD	005	006	007	90LVY242-MB1	90LVY243-MB1
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Surrogate Recovery	Toluene-d8	99 %	100 %	100 %	101 %	101 %	101 %
	Bromofluorobenzene	100 %	102 %	99 %	102 %	101 %	101 %
	1,2-Dichloroethane-d4	98 %	97 %	91 %	98 %	94 %	105 %
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride		10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride		28 B	21 B	27 B	30 B	5	6
1,1-Dichloroethene		105 %	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)		5 U	5 U	5 U	5 U	5 U	5 U
Chloroform		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride		5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane		5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene		91 %	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane		5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
Benzene		96 %	5 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	5 U
2-chloroethylvinylether		10 U	10 U	10 U	10 U	10 U	10 U
Bromoform		5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene		5 U	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	5 U
Toluene		88 %	5 U	5 U	5 U	5 U	5 U
Chlorobenzene		89 %	5 U	5 U	5 U	5 U	5 U
Ethylbenzene		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene		5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene		5 U	5 U	5 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

Cust ID:	MW4		MW5		FIELD BLANK		TRIP BLANK		VBLK		VBLK	
RFW#:	004 MSD		005		006		007		90LVY242-MB1		90LVY243-MB1	
1,4-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U	5	U
Acrolein	10	U	10	U	10	U	10	U	10	U	10	U
Acrylonitrile	10	U	10	U	10	U	10	U	10	U	10	U
Trichlorofluoromethane	5	U	5	U	5	U	5	U	5	U	5	U
Xylene (total)	5	U	5	U	5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

CASE NARRATIVE

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WSI LE CARPENTER **SAMPLES RECEIVED:** 11-29-90
RFW #: 9011L775 GC/MS VOLATILE
W.O. #: 3600-04-90

NARRATIVE

The set of samples consisted of seven (7) water samples collected on 11-28-90.

The samples were analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for Priority Pollutant Volatile and Xylene target compounds on 12-05,06-90.

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

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

2. The following samples required dilutions because they contained high levels of target compounds:

Sample ID	Dilution Factor
MW-1	25 & 100
MW-3	100

3. All surrogate recoveries were within EPA QC limits.

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

5. The laboratory blanks contained the common contaminant methylene chloride at levels less than 2x the CRQL.

6. Internal standard area and retention time criteria were met for all samples and blanks.

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

1-28-91
Date

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)

2A
WATER VOLATILE SURROGATE RECOVERY

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

Case No.: WSI-LE CARPENTER

RFW Lot No.: 9011L775

	CLIENT SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	MW1	102	103	110		0
02	MW2	100	103	96		0
03	MW3	103	99	101		0
04	MW3DL	100	103	101		0
05	MW4	99	98	88		0
06	MW4MS	99	101	99		0
07	MW4MSD	99	100	98		0
08	MW5	100	102	97		0
09	FIELD BLANK	100	99	91		0
10	TRIP BLANK	101	102	98		0
11	VBLKLVY242-MB1	101	101	94		0
12	VBLKLVY243-MB1	101	101	105		0

	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.: 9011L775-004

MATRIX Spike - Sample No.: MW4

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	50.5	101	61-145
Trichloroethene	50.0	0	45.0	90	71-120
Benzene	50.0	0	48.0	96	76-127
Toluene	50.0	0	43.6	87	76-125
Chlorobenzene	50.0	0	44.7	89	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	52.4	105	3	14	61-145
Trichloroethene	50.0	45.5	91	1	14	71-120
Benzene	50.0	48.1	96	0	11	76-127
Toluene	50.0	43.8	88	1	13	76-125
Chlorobenzene	50.0	44.5	89	0	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:

VOLATILE METHOD BLANK SUMMARY

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

Case No.: WSI-LE CARPENTER

Lab File ID: Y120503 Lab Sample ID: 90LVY242-MB1

Date Analyzed: 12/05/90 Time Analyzed: 1053

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

Instrument ID: 5100Y

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW4	9011L775-004	Y120507	1504
02	MW5	9011L775-005	Y120508	1541
03	FIELD BLANK	9011L775-006	Y120509	1620
04	TRIP BLANK	9011L775-007	Y120510	1654
05	MW4MSD	9011L775-004T	Y120511	1732
06	MW4MS	9011L775-004S	Y120512	1815
07	MW2	9011L775-002	Y120513	1849
08	MW3DL	9011L775-003	Y120514	1923
09	MW1	9011L775-001	Y120515	2001

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: Y120604 Lab Sample ID: 90LVY243-MB1

Date Analyzed: 12/06/90 Time Analyzed: 1115

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

Instrument ID: 5100Y

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW3	9011L775-003	Y120609	1523

COMMENTS:

5A

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

015

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

Case No.: WSI-LE CARPENTER

Lab File ID: Y112901 BFB Injection Date: 11/29/90

Instrument ID: 5100Y BFB Injection Time: 1108

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	19.1
75	30.0 - 60.0% of mass 95	48.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.2(0.31)1
174	Greater than 50.0% of mass 95	64.2
175	5.0 - 9.0% of mass 174	3.8(5.9)1
176	Greater than 95.0% but less than 101.0% of mass 174	63.2(98.5)1
177	5.0 - 9.0% of mass 176	4.2(6.6)2

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

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	VSTD020	VSTD020	Y112902	11/29/90	1211
02	VSTD050	VSTD050	Y112903	11/29/90	1244
03	VSTD100	VSTD100	Y112904	11/29/90	1318
04	VSTD150	VSTD150	Y112905	11/29/90	1352
05	VSTD200	VSTD200	Y112906	11/29/90	1428
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

5A

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

016

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

Case No.: WSI-LE CARPENTER

Lab File ID: Y120501 BFB Injection Date: 12/05/90

Instrument ID: 5100Y BFB Injection Time: 920

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	26.4
75	30.0 - 60.0% of mass 95	58.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	54.9
175	5.0 - 9.0% of mass 174	3.9(7.0)1
176	Greater than 95.0% but less than 101.0% of mass 174	52.3(95.3)1
177	5.0 - 9.0% of mass 176	3.5(6.6)2

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

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	Y120502	12/05/90	0940
02	VBLKLVY242-MB1	90LVY242-MB1	Y120503	12/05/90	1053
03	MW4	9011L775-004	Y120507	12/05/90	1504
04	MW5	9011L775-005	Y120508	12/05/90	1541
05	FIELD BLANK	9011L775-006	Y120509	12/05/90	1620
06	TRIP BLANK	9011L775-007	Y120510	12/05/90	1654
07	MW4MSD	9011L775-004T	Y120511	12/05/90	1732
08	MW4MS	9011L775-004S	Y120512	12/05/90	1815
09	MW2	9011L775-002	Y120513	12/05/90	1849
10	MW3DL	9011L775-003	Y120514	12/05/90	1923
11	MW1	9011L775-001	Y120515	12/05/90	2001
12					
13					
14					
15					
16					
17					
18					
19					
20					

5A

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

017

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

Case No.: WSI-LE CARPENTER

Lab File ID: Y120602 BFB Injection Date: 12/06/90

Instrument ID: 5100Y BFB Injection Time: 959

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	19.1
75	30.0 - 60.0% of mass 95	52.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.4
173	Less than 2.0% of mass 174	0.3(0.42)1
174	Greater than 50.0% of mass 95	61.6
175	5.0 - 9.0% of mass 174	4.7(7.6)1
176	Greater than 95.0% but less than 101.0% of mass 174	58.7(95.3)1
177	5.0 - 9.0% of mass 176	4.6(7.8)2

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

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	Y120603	12/06/90	1014
02	VBLKLVY243-MB1	90LVY243-MB1	Y120604	12/06/90	1115
03	MW3	9011L775-003	Y120609	12/06/90	1523
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

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.

MW1 019

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-001

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

Lab File ID: Y120515

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

Column: (pack/cap) PACK

Dilution Factor: 100

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	1000	U
74-83-9	Bromomethane	1000	U
75-01-4	Vinyl Chloride	1000	U
75-00-3	Chloroethane	1000	U
75-09-2	Methylene Chloride	3200	B
75-35-4	1,1-Dichloroethene	500	U
75-34-3	1,1-Dichloroethane	500	U
540-59-0	1,2-Dichloroethene (total)	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	500	U
10061-02-6	Trans-1,3-Dichloropropene	500	U
110-75-8	2-chloroethylvinylether	1000	U
75-25-2	Bromoform	500	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-88-3	Toluene	500	U
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	4700	
95-50-1	1,2-Dichlorobenzene	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
107-02-8	Acrolein	1000	U
107-13-1	Acrylonitrile	1000	U
75-69-4	Trichlorofluoromethane	500	U
1330-20-7	Xylene (total)	27000	

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW1 020

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-001

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

Lab File ID: Y120515

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

Column: (pack/cap) PACK

Dilution Factor: 100

Number TICs found: 0

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

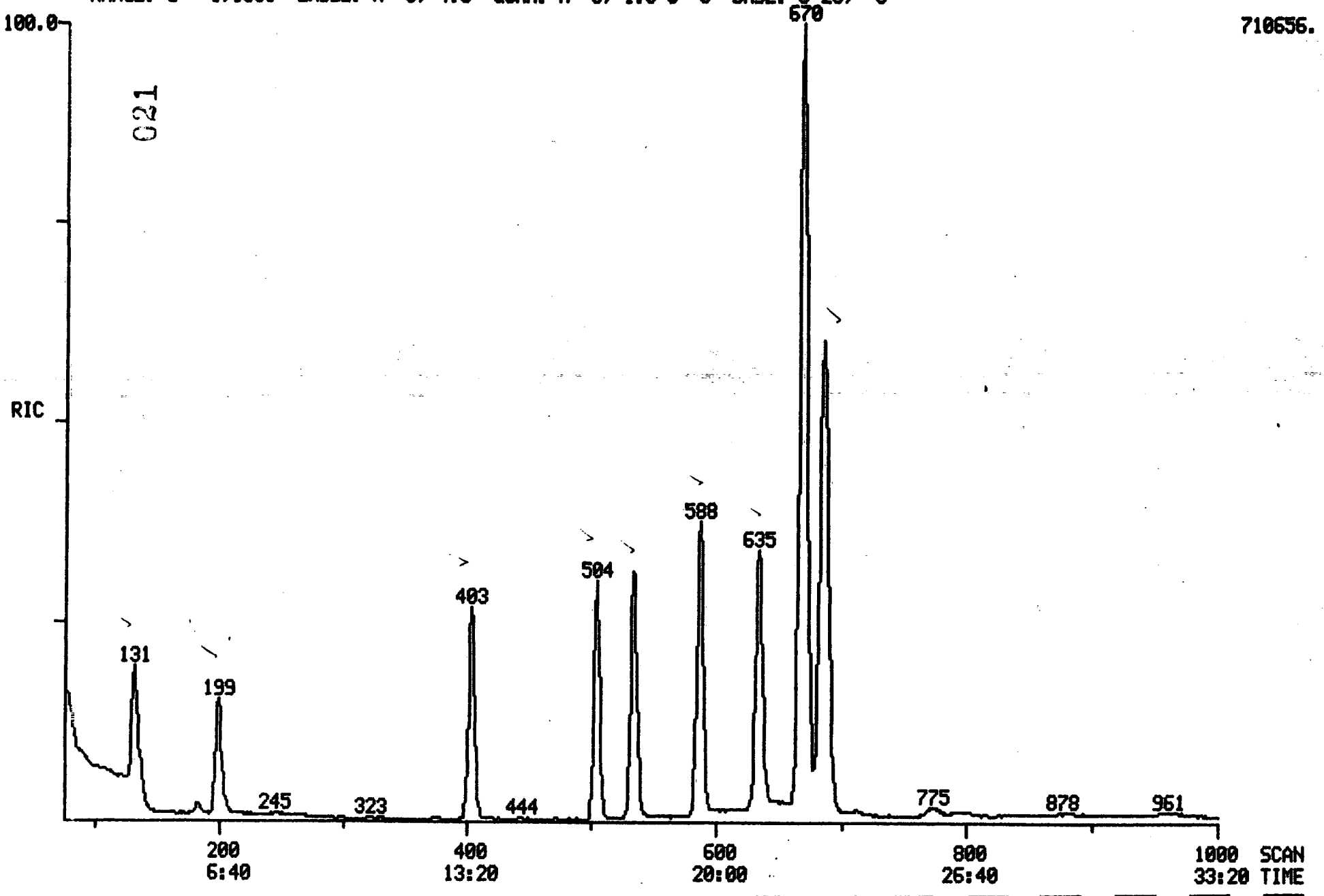
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

OK
NOTICE

RIC
12/05/90 20:01:00
SAMPLE: 9011L775-001/WSI LE CARPENTER/2.5 ML OF A 1:50
CONDS.: VO/5100Y DIL100
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: Y120515 #1
CALI: Y120515 #2

SCANS 75 TO 1000



021

Quantitation Report File: Y120515

Data: Y120515.TI
12/05/90 20:01:00
Sample: 9011L775-001/WSI LE CARPENTER/2.5 ML OF A 1:50
Conds.: VO/5100Y DIL100
Formula: Y120501 Instrument: 5100Y Weight: 0.007
Submitted by: Y120501 Analyst: JBD Acct. No.: 120590

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	
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		CIS-1,3-DICHLOROPROPENE	
26	87V	TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30		TRANS-1,3-DICHLOROPROPENE	
31	19V	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	XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	131	4:22	1	1.000	A BB	62182.	50.000 UG/L	7.38
2	65	199	6:38	1	1.519	A BB	244240.	55.103 UG/L	8.14
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	77	2:34	1	0.588	A BB	73937.	32.266 UG/L	4.76
8	43	89	2:58	1	0.679	A BV	23049.	21.775 UG/L	3.21 <10%
9	NOT FOUND								
10	76	109	3:38	1	0.832	A BB	14758.	2.774 UG/L	0.41 <10%
11	101	118	3:56	1	0.901	A BB	225.	0.043 UG/L	0.01
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	114	403	13:26	18	1.000	A BB	318229.	50.000 UG/L	7.38
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	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	117	534	17:48	33	1.000	A BB	303743.	50.000 UG/L	7.38
34	98	504	16:48	33	0.944	A BB	364989.	50.881 UG/L	7.51
35	95	635	21:10	33	1.189	A BB	277896.	51.548 UG/L	7.61
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	92	509	16:58	33	0.953	A BB	1994.	0.366 UG/L	0.05
41	NOT FOUND								
42	106	588	19:36	33	1.101	A BB	152318.	47.213 UG/L	6.97
43	NOT FOUND								
44	106	686	22:52	33	1.285	A BB	405292.	121.827 UG/L	17.99
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	106	670	22:20	33	1.255	A BB	611337.	143.545 UG/L	21.19

~~265.472~~

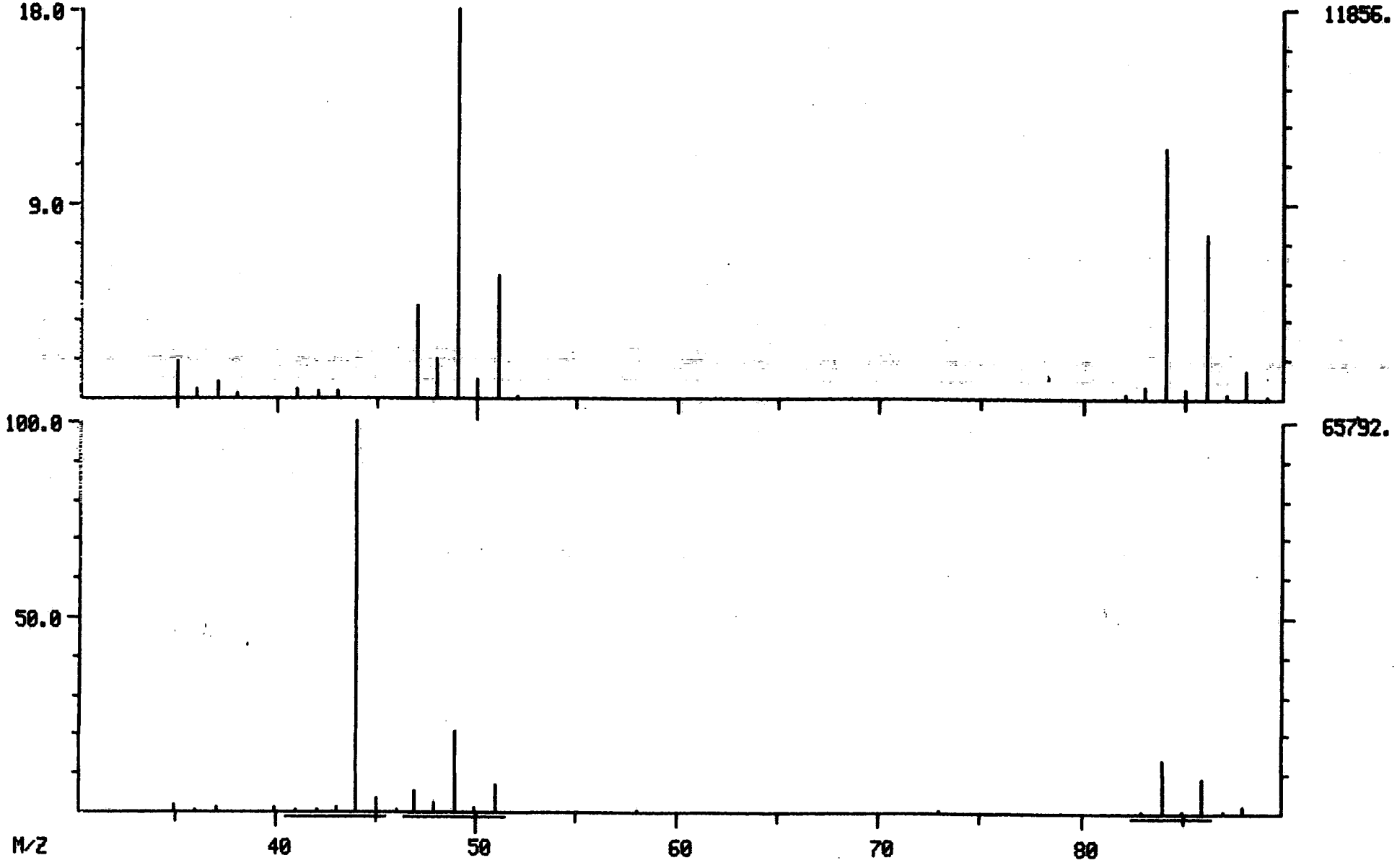
JGD 01/03/90

024

DUAL MASS SPECTRUM
12/05/90 20:01:00 + 2:34
SAMPLE: 9011L775-001/WSI LE CARPENTER/2.5 ML OF A 1:50
CONDS.: VO/5100Y DIL100
GC TEMP: 79 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120515 #77
CALI: Y120515 #2

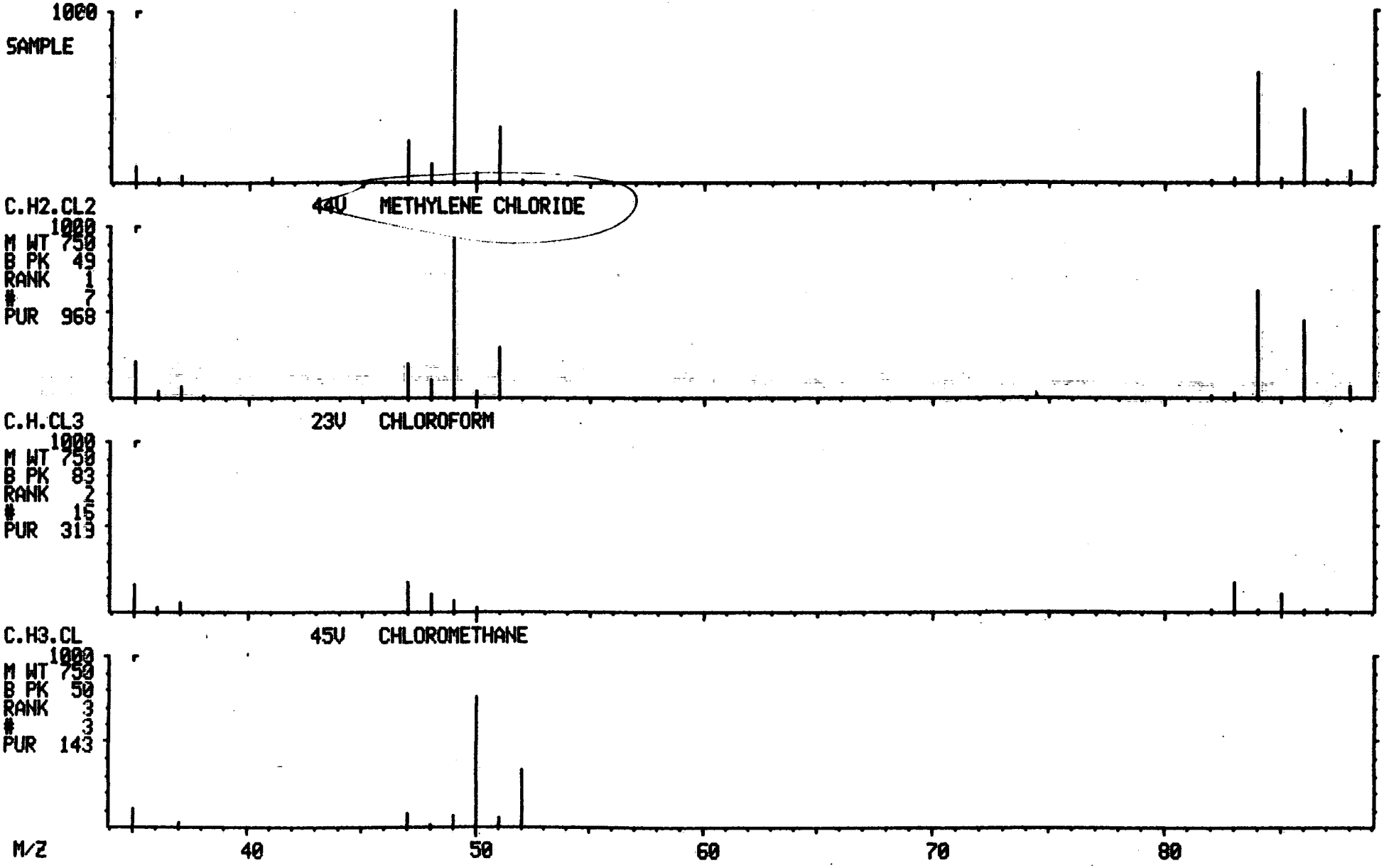
BASE M/Z: 49/ 44
RIC: 37695./ 115455.



LIBRARY SEARCH
12/05/90 20:01:00 + 2:34
SAMPLE: 9011L775-001/WSI LE CARPENTER/2.5 ML OF A 1:50
CONDS.: VO/5100Y DIL100
ENHANCED (S 15B 2N 0T)

DATA: Y120515 # 77
CALI: Y120515 # 2

BASE M/Z: 49
RIC: 36991.

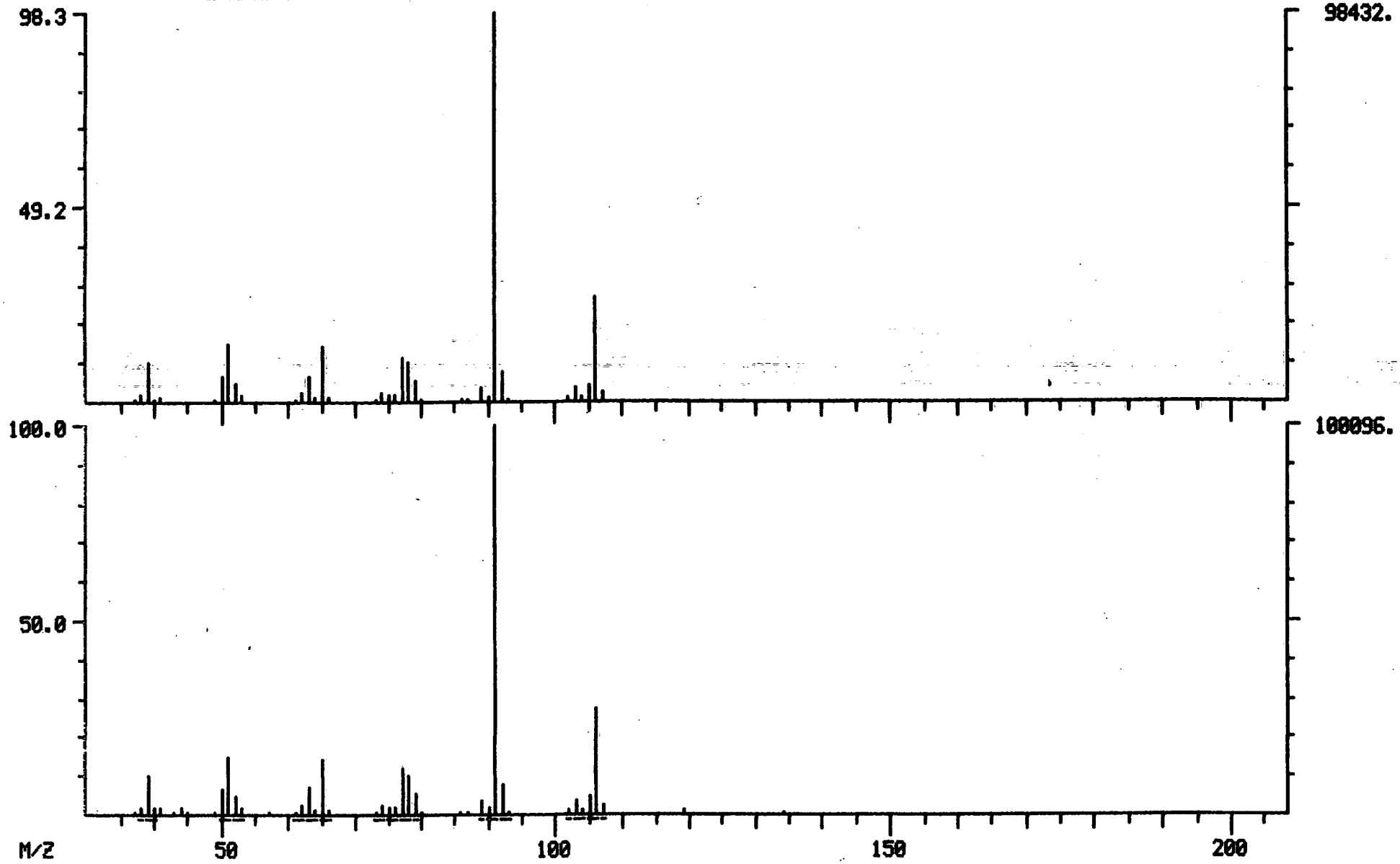


026

DUAL MASS SPECTRUM
12/05/90 20:01:00 + 19:36
SAMPLE: 9011L775-001/WSI LE CARPENTER/2.5 ML OF A 1:50
CONDS.: VO/5100Y DIL100
GC TEMP: 210 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120515 #588
CALI: Y120515 #2

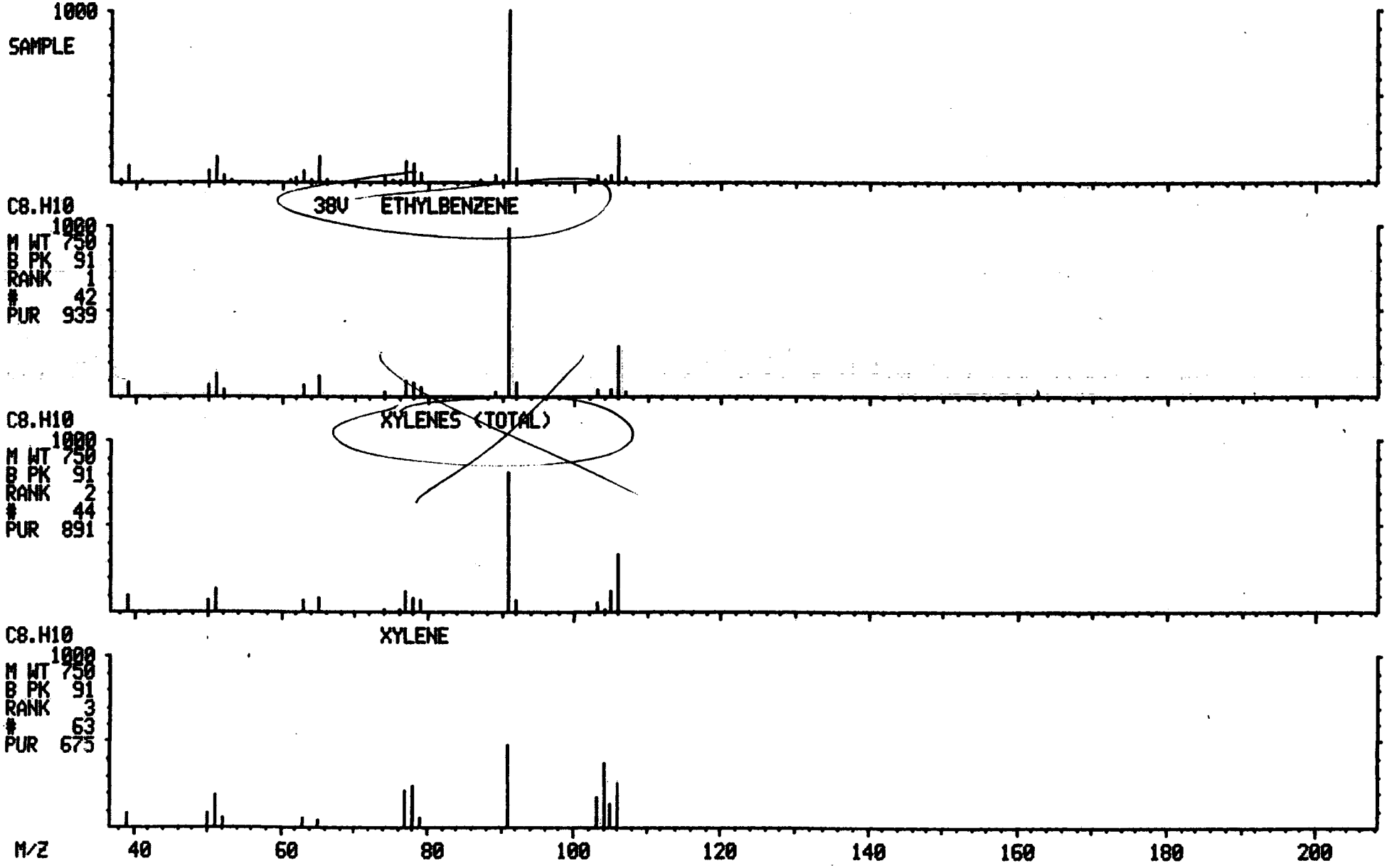
BASE M/Z: 91/ 91
RIC: 252671./ 266239.



LIBRARY SEARCH
*12/05/90 20:01:00 + 19:36
SAMPLE: 9011L775-001/WSI LE CARPENTER/2.5 ML OF A 1:50
CONDS.: VO/5100Y DIL100
ENHANCED (S 15B 2N 0T)

DATA: Y120515 # 588
CALI: Y120515 # 2

BASE M/Z: 91
RIC: 248063.

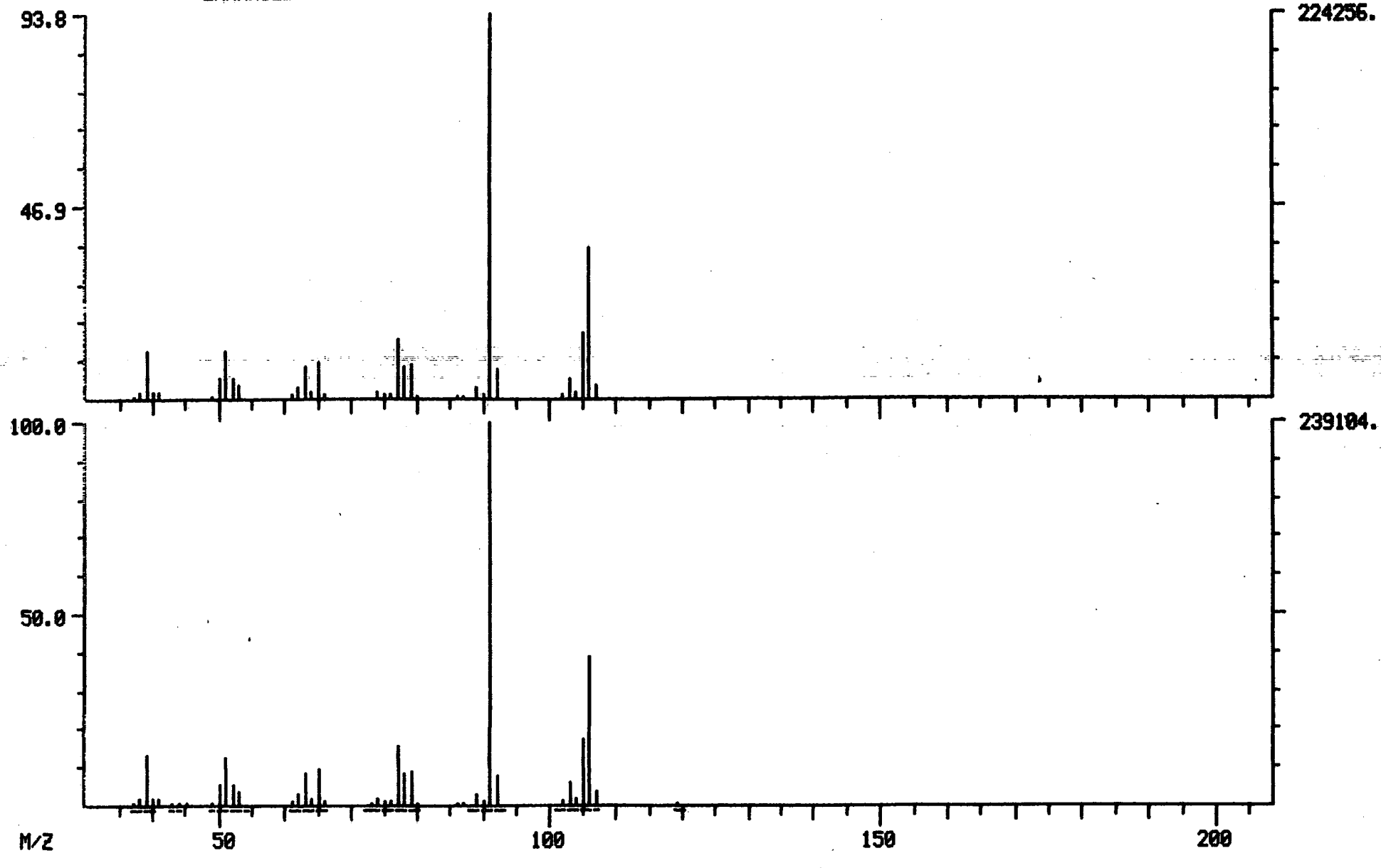


028

DUAL MASS SPECTRUM
12/05/90 20:01:00 + 22:20
SAMPLE: 9011L775-001/WSI LE CARPENTER/2.5 ML OF A 1:50
CONDS.: VO/5100Y DIL100
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120515 #670
CALI: Y120515 #2

BASE M/Z: 91/ 91
RIC: 654335./ 709631.

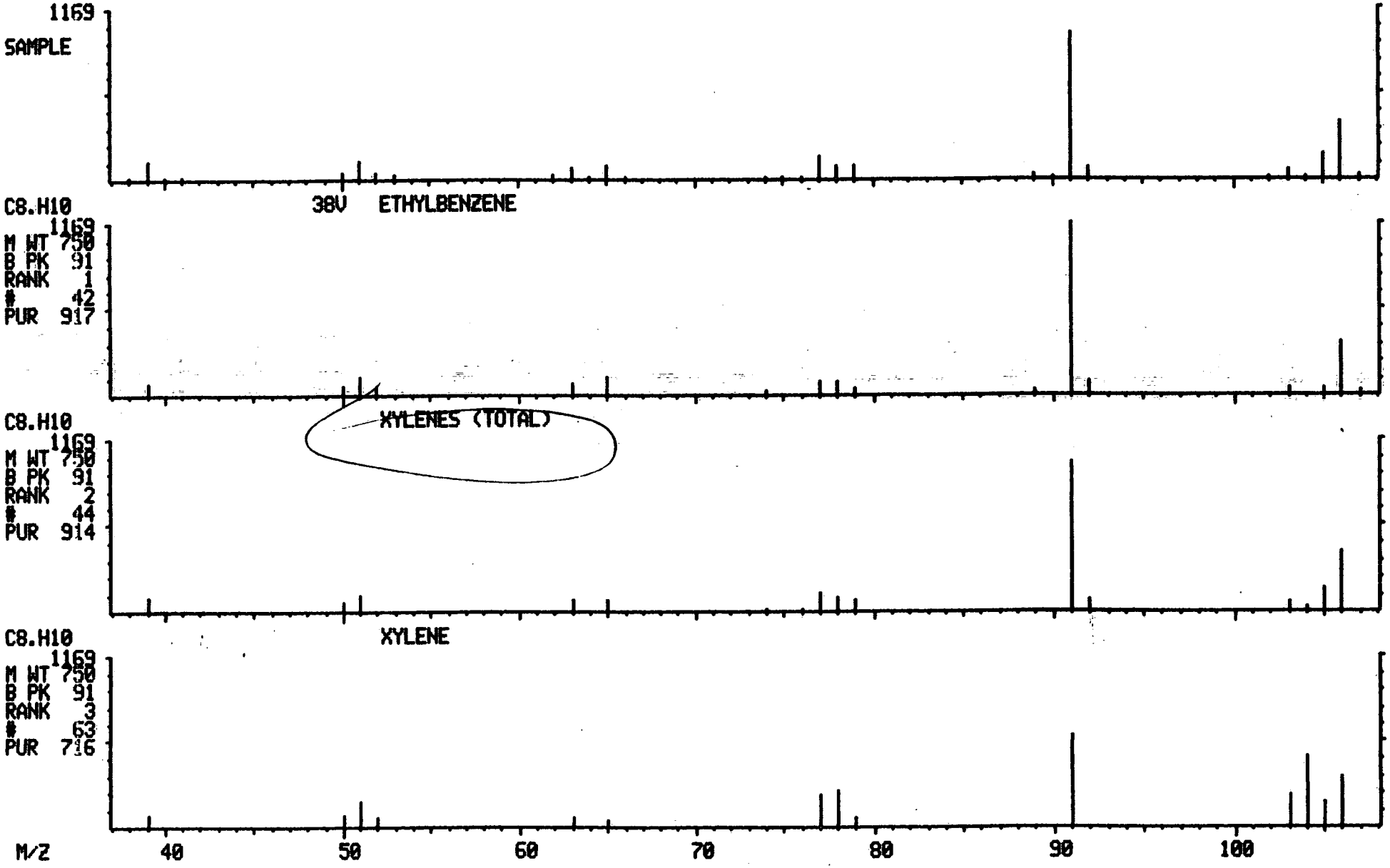


023

LIBRARY SEARCH
*12/05/90 20:01:00 + 22:20
SAMPLE: 9011L775-001/WSI LE CARPENTER/2.5 ML OF A 1:50
CONDS.: VO/5100Y DIL100
ENHANCED (S 15B 2N 0T)

DATA: Y120515 # 670
CALI: Y120515 # 2

BASE M/Z: 91
RIC: 641023.

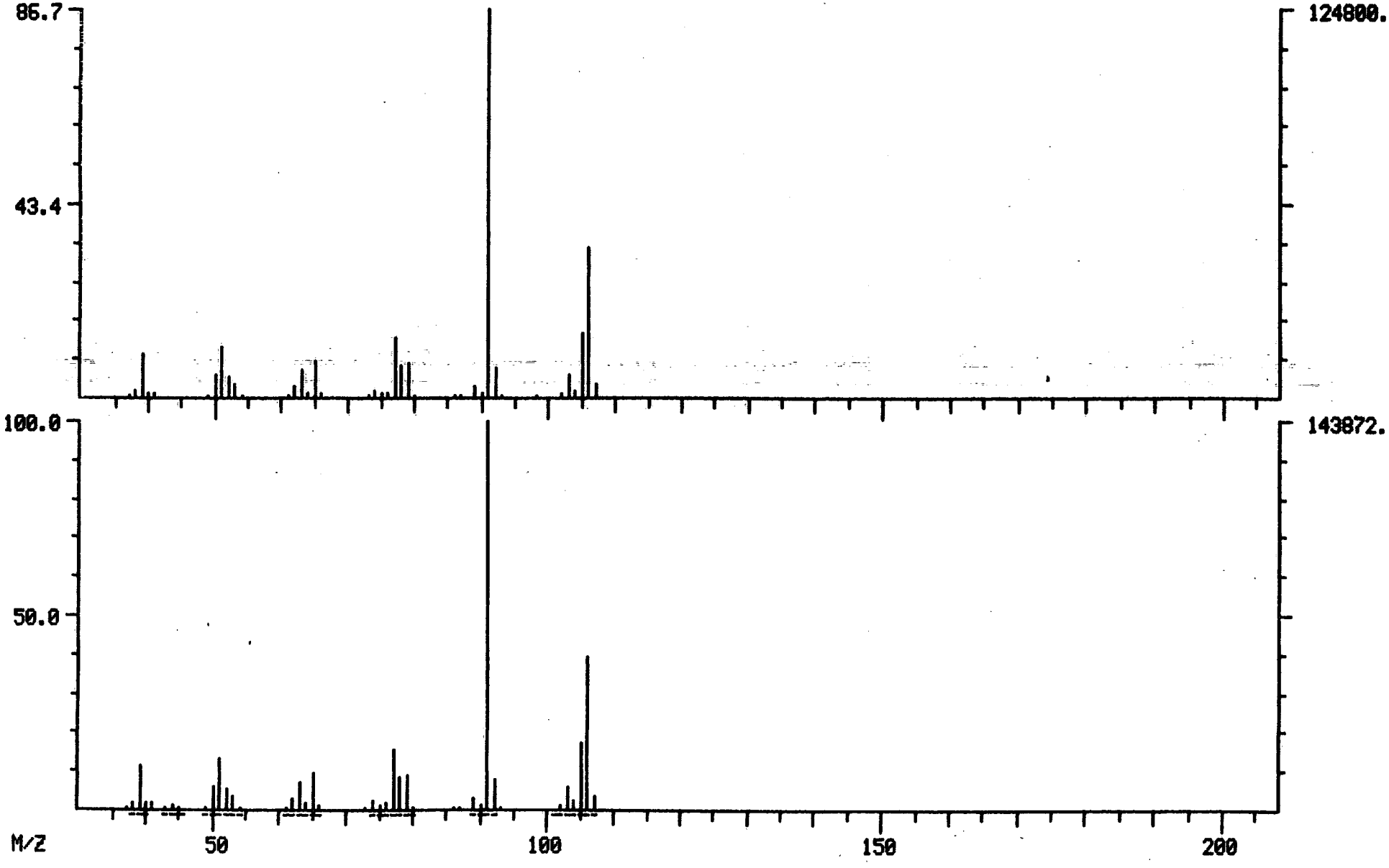


030

DUAL MASS SPECTRUM
12/05/90 20:01:00 + 22:52
SAMPLE: 9011L775-001/WSI LE CARPENTER/2.5 ML OF A 1:50
CONDS.: VO/5100Y DIL100
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120515 #686
CALI: Y120515 #2

BASE M/Z: 91/ 91
RIC: 361471./ 428031.

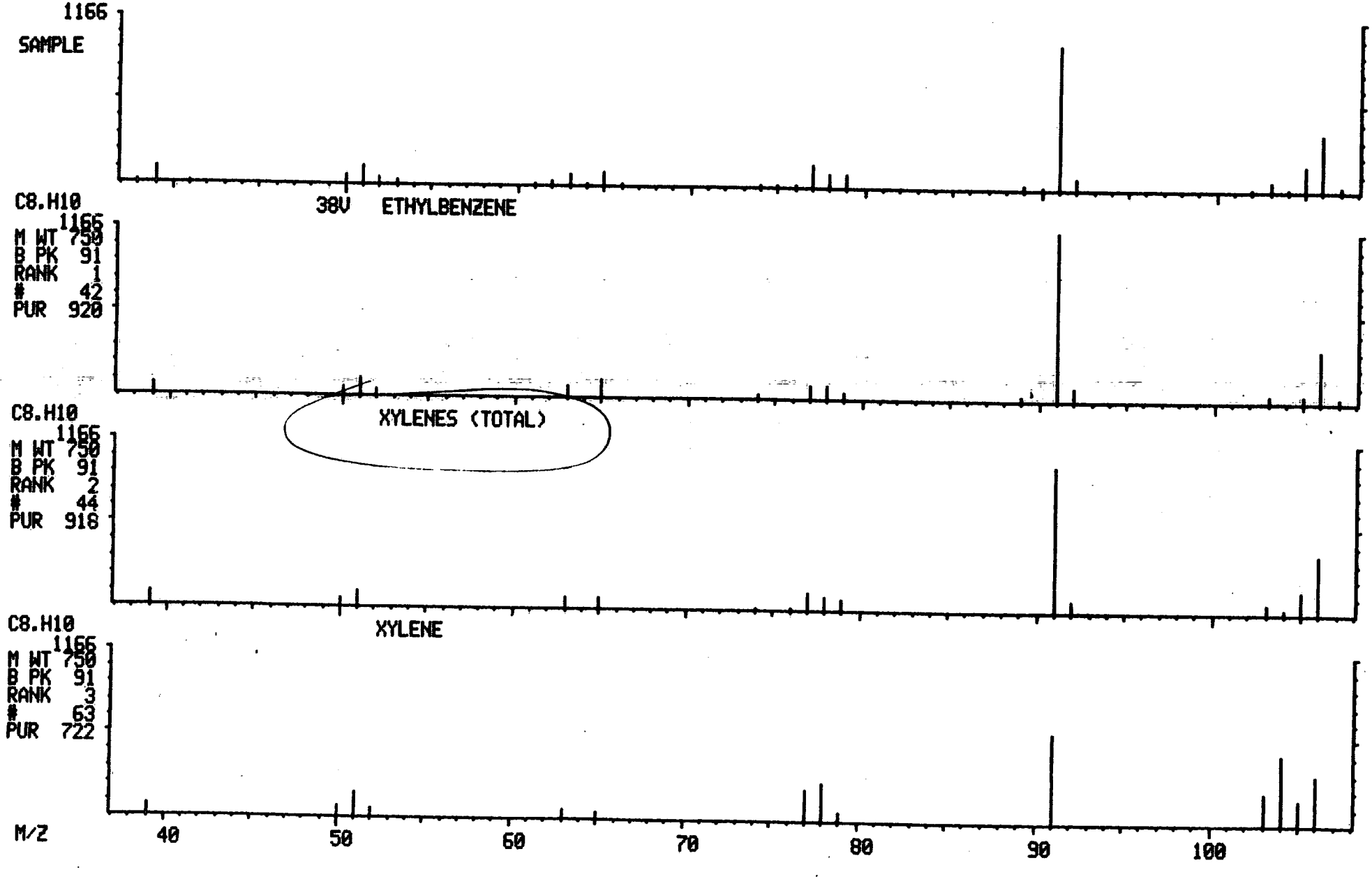


031

LIBRARY SEARCH
12/05/90 20:01:00 + 22:52
SAMPLE: 9011L775-001/WSI LE CARPENTER/2.5 ML OF A 1:50
CONDS.: VO/5100Y DIL100
ENHANCED (S 15B 2N 0T)

DATA: Y120515 # 686
CALI: Y120515 # 2

BASE M/Z: 91
RIC: 353279.



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW2 032

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-002

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

Lab File ID: Y120513

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

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	25	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)	22	

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW2 033

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-002

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

Lab File ID: Y120513

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

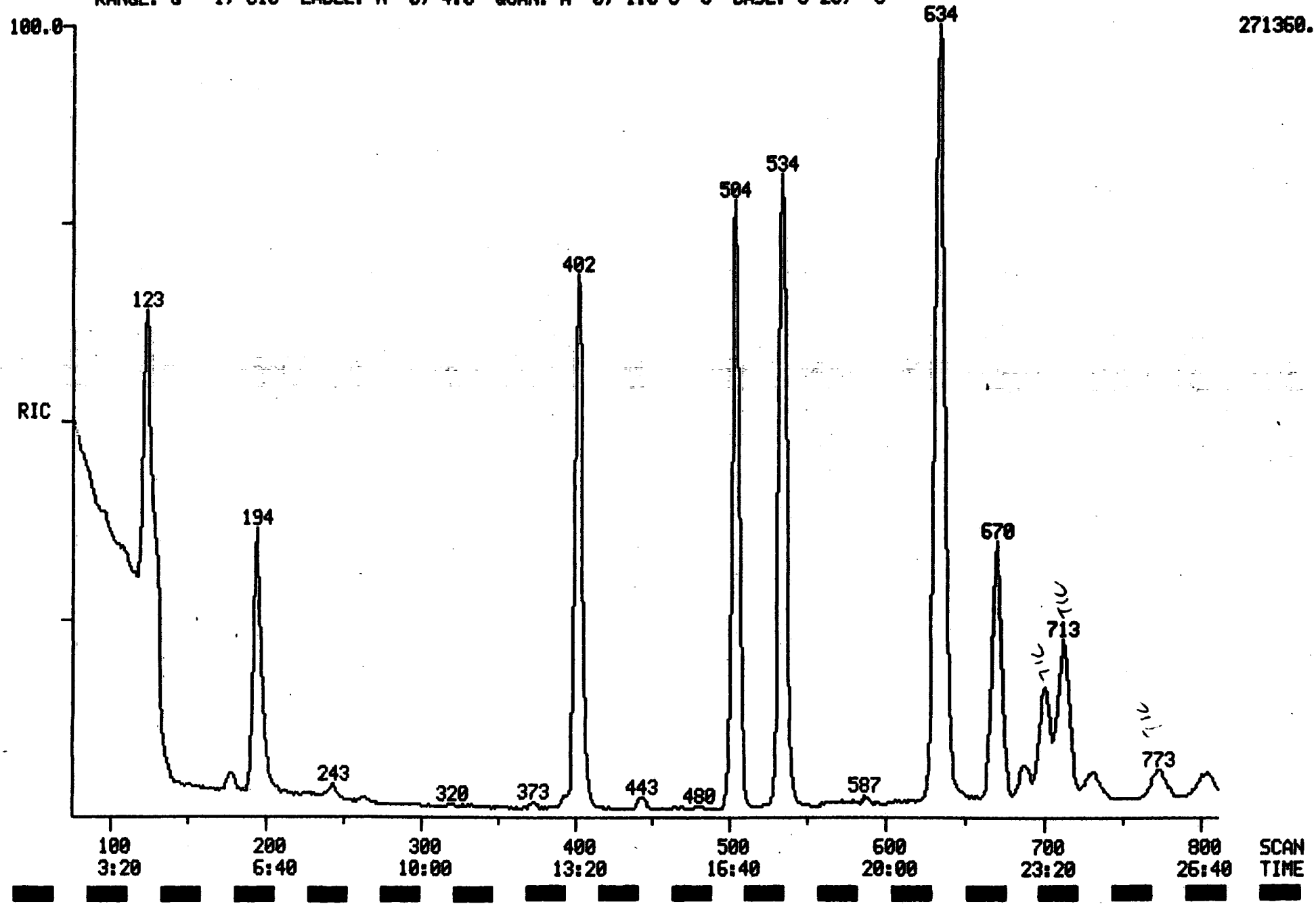
Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C3-BENZENE	23.37	10	J
2.	PROPYL BENZENE	23.77	20	J

034

RIC DATA: Y120513 #1 SCANS 75 TO 810
12/05/90 18:49:00 CALI: Y120513 #2
SAMPLE: 9011L775-002/WSI LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
RANGE: G 1, 810 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: Y120513

Data: Y120513.TI
12/05/90 18:49:00
Sample: 9011L775-002/WSI LE CARPENTER/5.0 ML
Conds.: VO/5100Y
Formula: Y120501 Instrument: 5100Y Weight: 0.009
Submitted by: Y120501 Analyst: JBD Acct. No.: 120590

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	
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		CIS-1,3-DICHLOROPROPENE	
26	87V	TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30		TRANS-1,3-DICHLOROPROPENE	
31	19V	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	XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	123	4:06	1	1.000	A BB	65430.	50.000 UG/L	13.51
2	65	194	6:28	1	1.577	A BB	224543.	48.144 UG/L	13.01
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	67	2:14	1	0.545	A BB	61147.	25.360 UG/L	6.85
8	43	79	2:38	1	0.642	A VV	20823.	18.695 UG/L	5.05 <10%
9	NOT FOUND								
10	76	100	3:20	1	0.813	A BB	13674.	2.443 UG/L	0.66 <10%
11	101	109	3:38	1	0.886	A BB	345.	0.063 UG/L	0.02
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	114	402	13:24	18	1.000	A BB	312784.	50.000 UG/L	13.51
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	43	248	8:16	18	0.617	A BV	755.	0.159 UG/L	0.04
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	78	333	11:06	18	0.828	A BB	1335.	0.184 UG/L	0.05
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	117	534	17:48	33	1.000	A BB	302246.	50.000 UG/L	13.51
34	98	504	16:48	33	0.944	A BB	357021.	50.017 UG/L	13.51
35	95	635	21:10	33	1.189	A BB	277034.	51.643 UG/L	13.95
36	43	417	13:54	33	0.781	A*BB	621.	0.212 UG/L	0.06
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	92	509	16:58	33	0.953	A BB	1503.	0.277 UG/L	0.07
41	112	537	17:54	33	1.006	A BB	3444.	0.535 UG/L	0.14
42	106	588	19:36	33	1.101	A BB	1709.	0.532 UG/L	0.14
43	NOT FOUND								
44	106	687	22:54	33	1.287	A BB	10764.	21.734 3.252 UG/L	0.88
45	NOT FOUND								
46	146	757	25:14	33	1.418	A BB	625.	0.117 UG/L	0.03
47	NOT FOUND								
48	106	670	22:20	33	1.255	A BB	78326.	18.482 UG/L	4.99

JBD 01/03/90

Quantitation Report File: Y120513TIC

Data: Y120513.TI
12/05/90 18:49:00
Sample: 9011L775-002/WSI LE CARPENTER/5.0 ML
Conds.: VO/5100Y
Formula: Y120501 Instrument: 5100Y Weight: 0.009
Submitted by: Y120501 Analyst: JBD Acct. No.: 120590

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

No	Name
1	IS3 CHLOROBENZENE D5
2	~~UNKNOWN~~ C3-Benzene
3	UNKNOWN propyl benzene

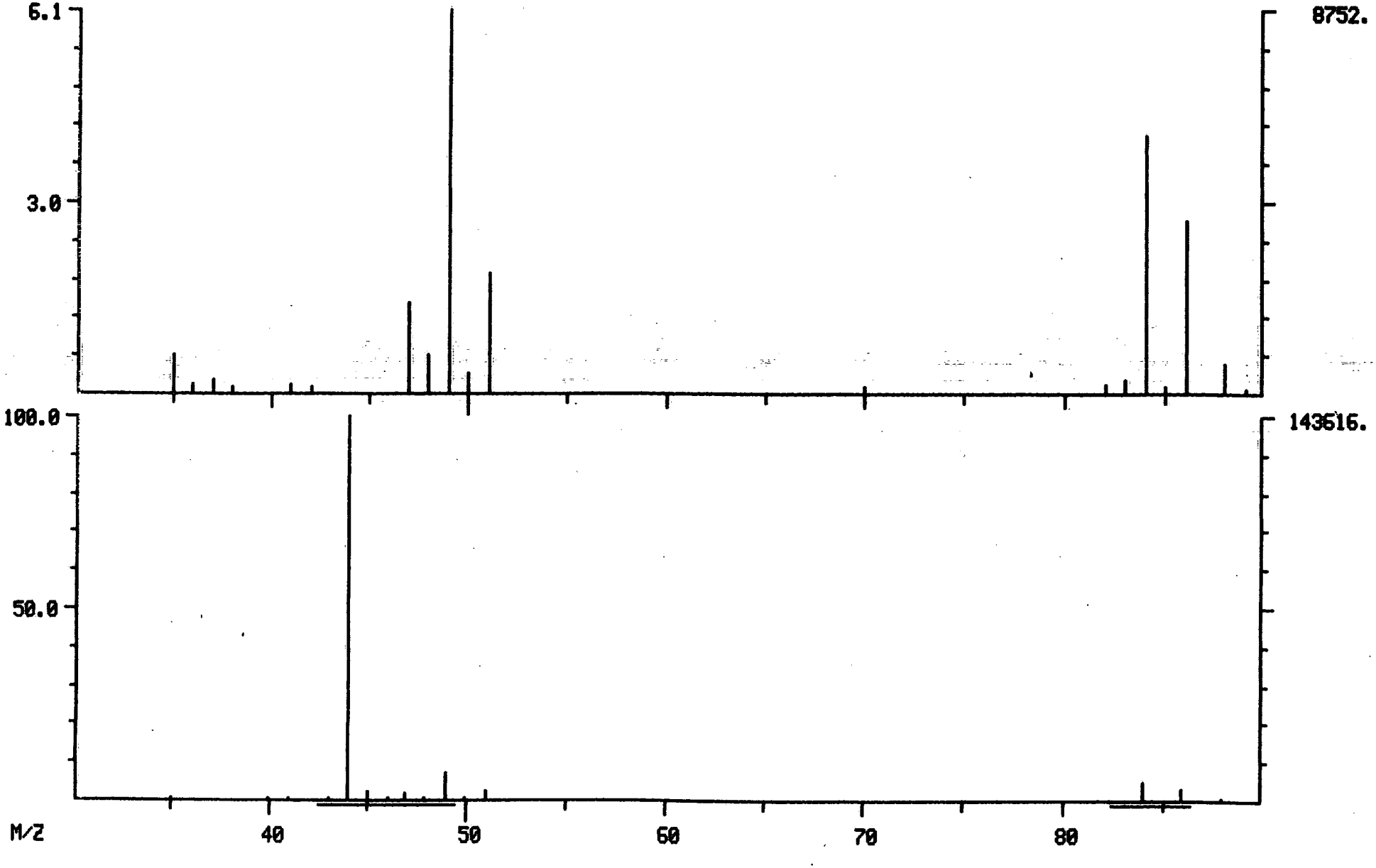
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	534	17:48	1	1.000	A BB	1243760.	50.000 UG/L	48.19
2	RIC	701	23:22	1	1.313	A BV	259488.	~~20.863~~ 11	20.11
3	RIC	713	23:46	1	1.335	A VB	409040.	~~32.887~~ 17	31.70

JAO 01/03/90

DUAL MASS SPECTRUM
12/05/90 18:49:00 + 2:14
SAMPLE: 9011L775-002/WSI LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
GC TEMP: 79 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120513 #67
CALI: Y120513 #2

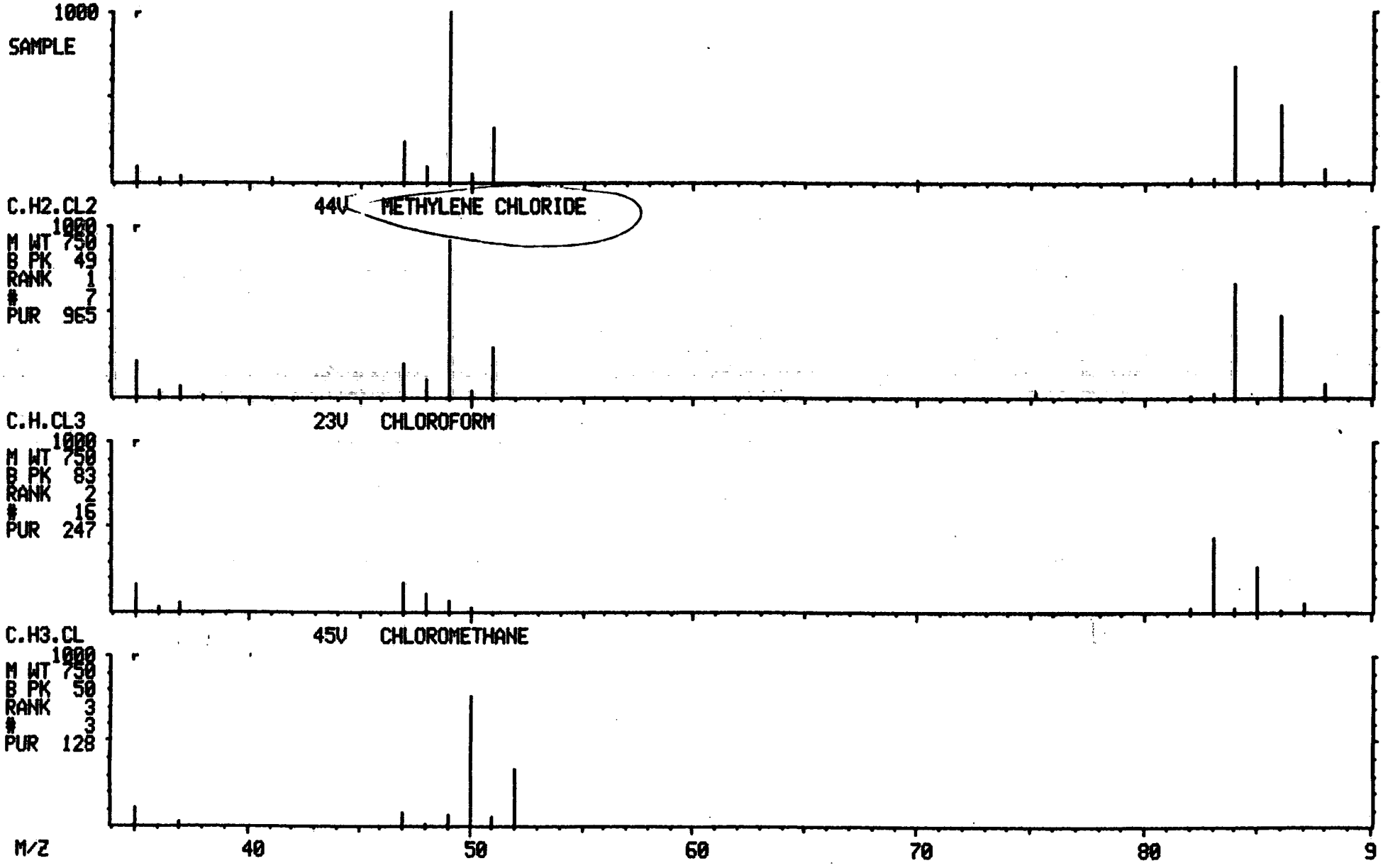
BASE M/Z: 49/ 44
RIC: 28255./ 185343.



LIBRARY SEARCH
*12/05/90 18:49:00 + 2:14
SAMPLE: 9011L775-002/WSI LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
ENHANCED (S 15B 2N 0T)

DATA: Y120513 # 67
CALI: Y120513 # 2

BASE M/Z: 49
RIC: 27999.

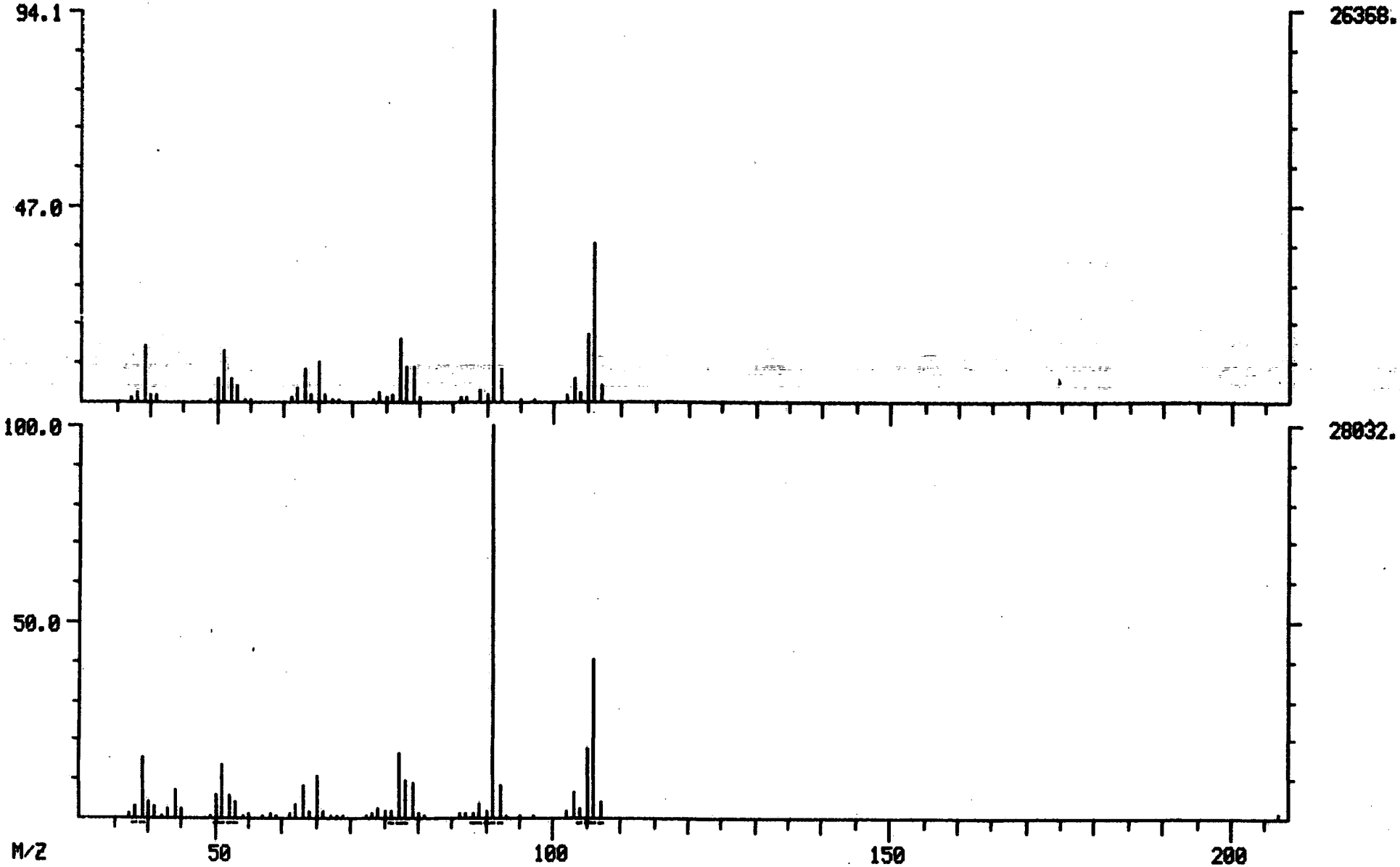


040

DUAL MASS SPECTRUM
12/05/90 18:49:00 + 22:20
SAMPLE: 9011L775-002/WSI LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120513 #670
CALI: Y120513 #2

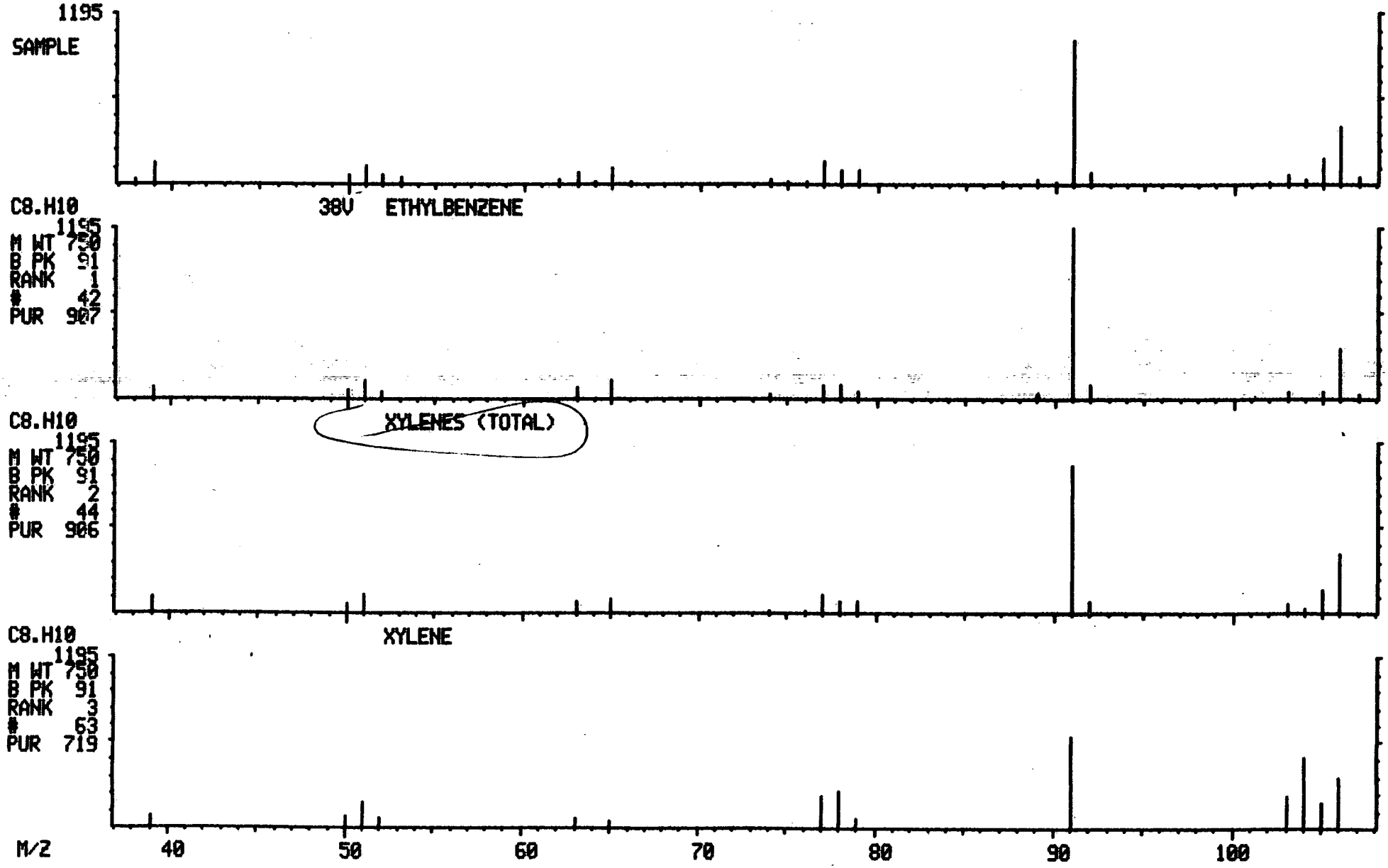
BASE M/Z: 91/ 91
RIC: 81791./ 94591.



LIBRARY SEARCH
12/05/90 18:49:00 + 22:20
SAMPLE: 9011L775-002/WSI LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
ENHANCED (S 15B 2N 0T)

DATA: Y120513 # 670
CALI: Y120513 # 2

BASE M/Z: 91
RIC: 78463.

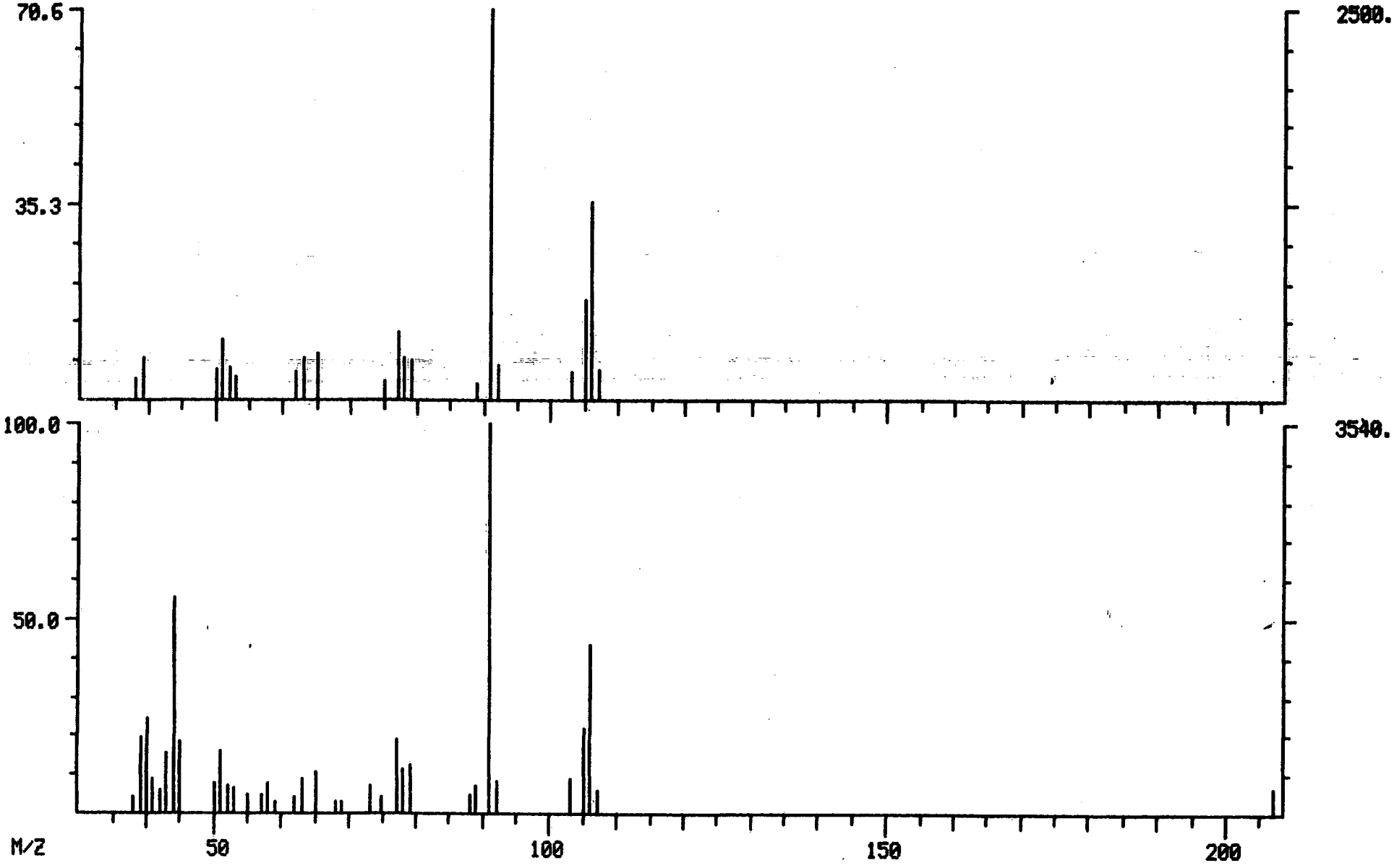


042

DUAL MASS SPECTRUM
12/05/90 18:49:00 + 22:54
SAMPLE: 9011L775-002/WSI LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120513 #687
CALI: Y120513 #2

BASE M/Z: 91/ 91
RIC: 8271./ 17727.

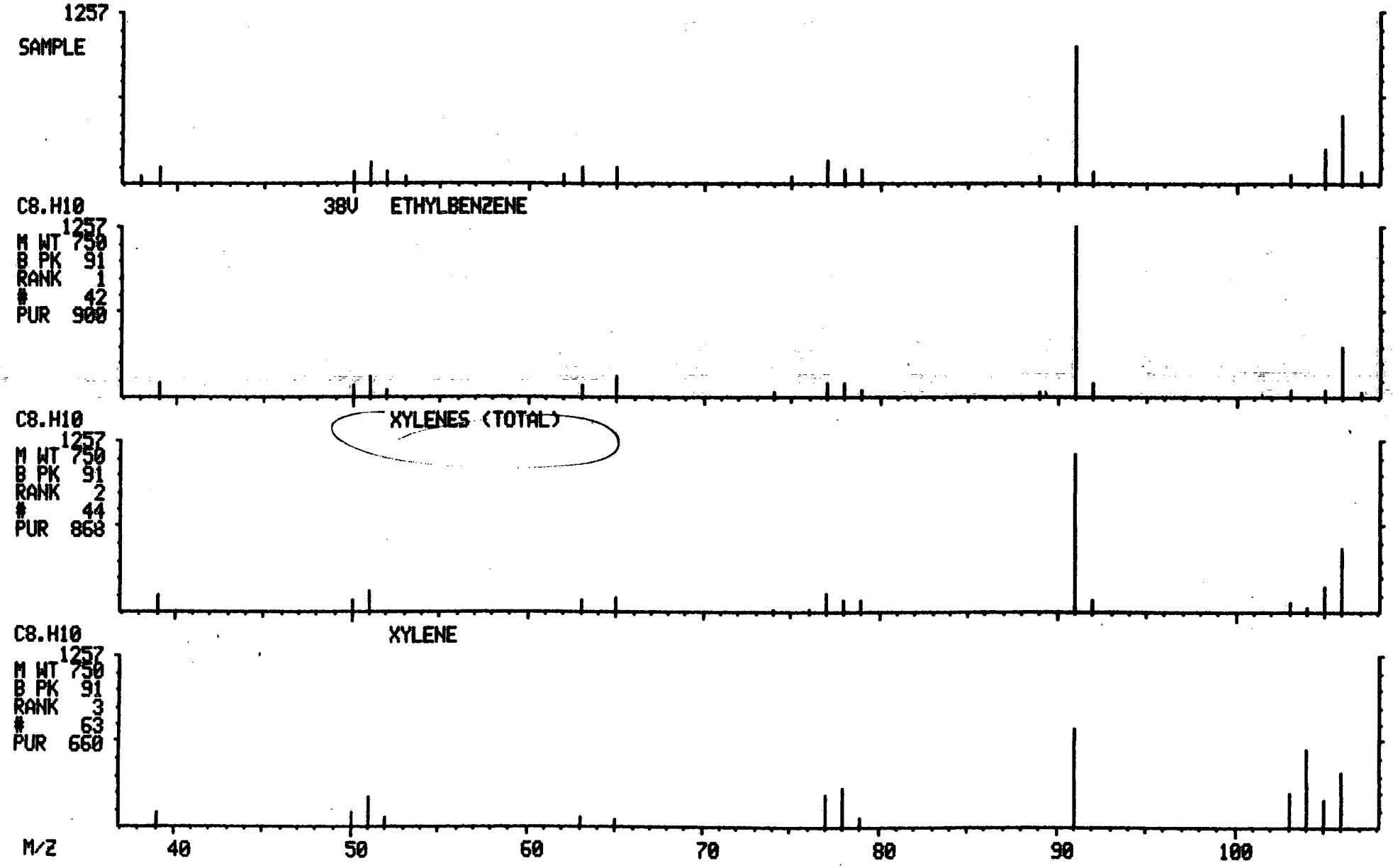


043

LIBRARY SEARCH
*12/05/90 18:49:00 + 22:54
SAMPLE: 9011L775-002/WSI LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
ENHANCED (S 15B 2N 0T)

DATA: Y120513 # 687
CALI: Y120513 # 2

BASE M/Z: 91
RIC: 8271.

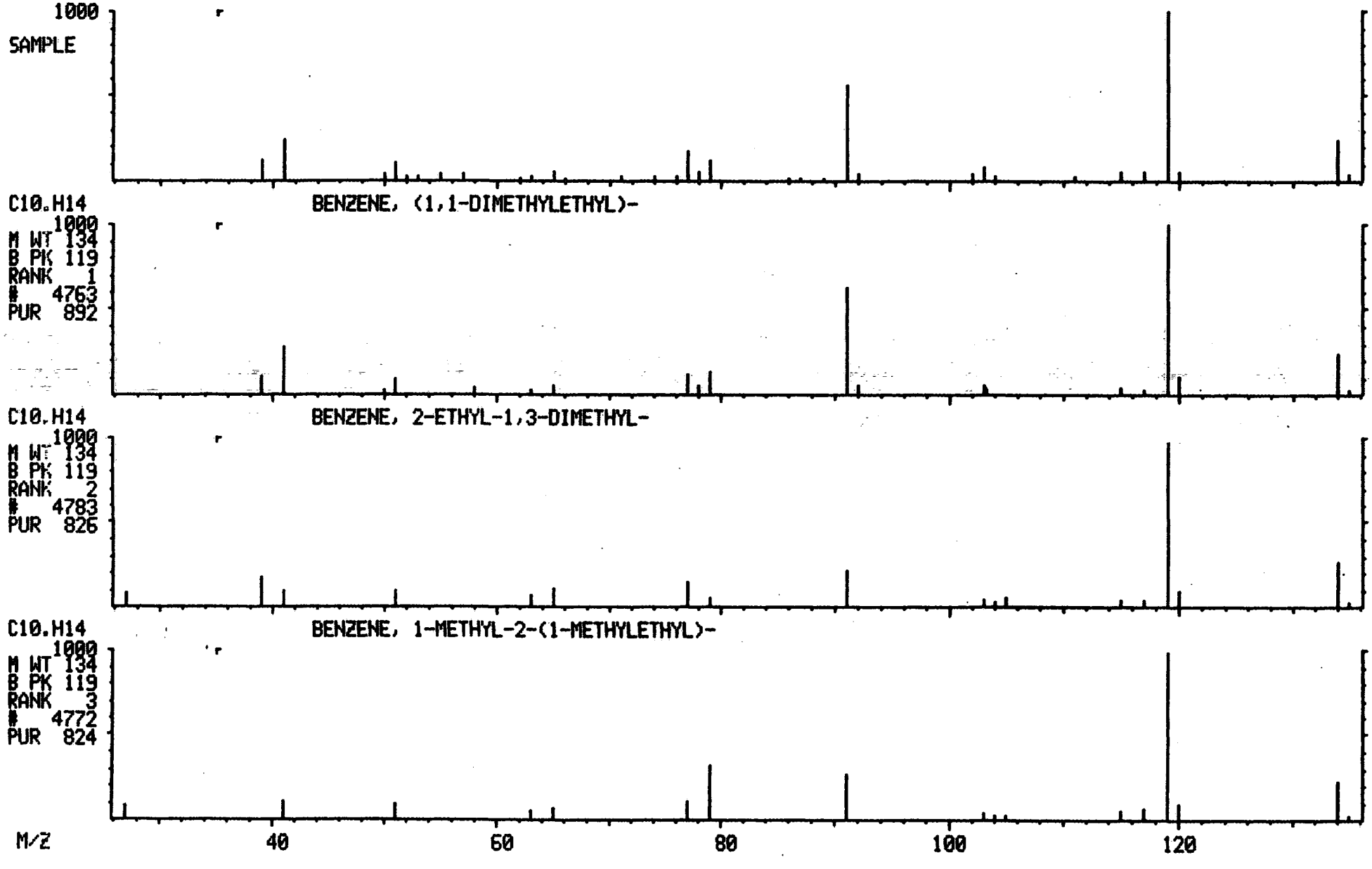


044

LIBRARY SEARCH
12/05/90 18:49:00 + 23:22
SAMPLE: 9011L775-002/WSI LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
ENHANCED (S 15B 2N 0T)

DATA: Y120513 # 701
CALI: Y120513 # 2

BASE M/Z: 119
RIC: 23743.

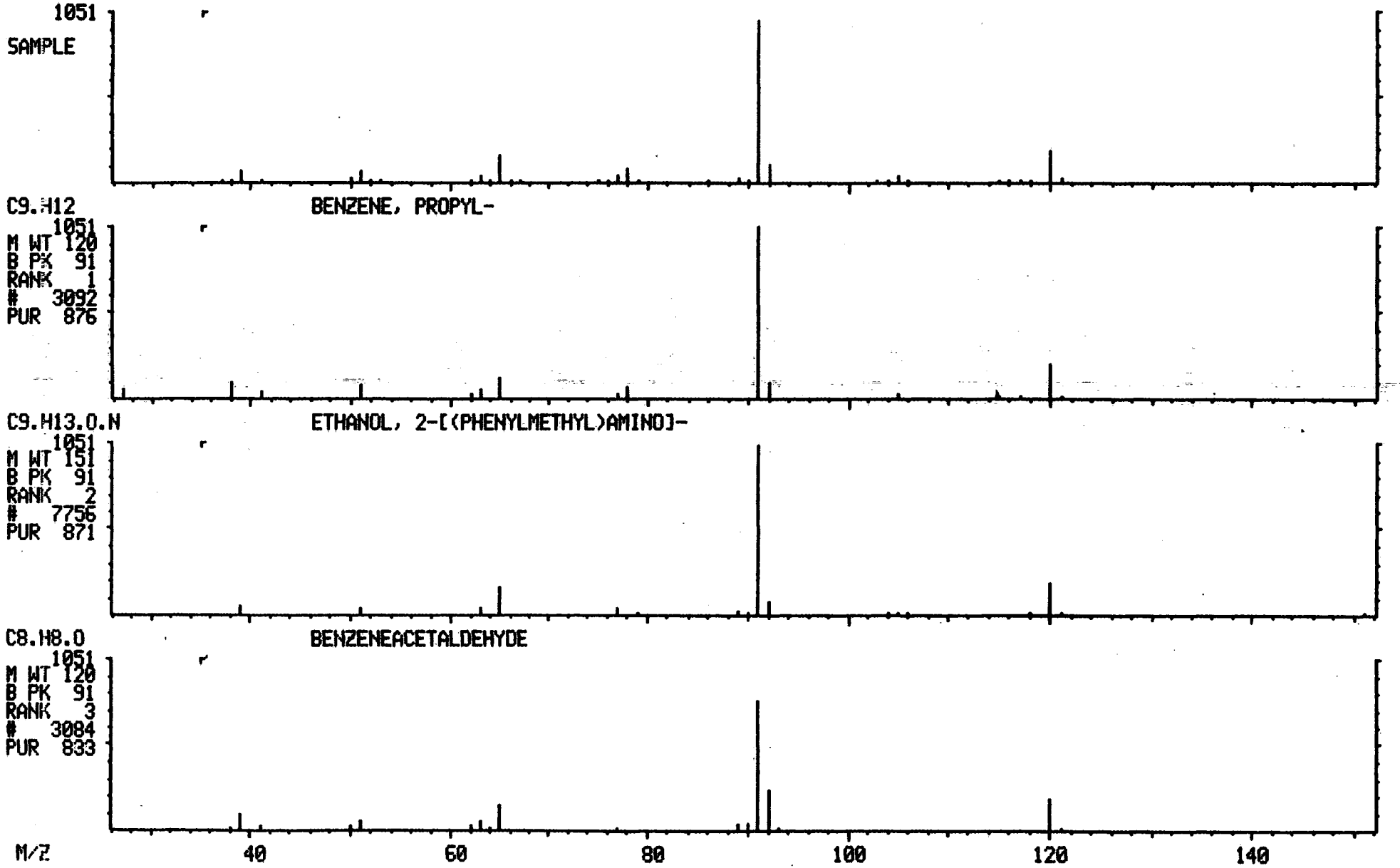


045

LIBRARY SEARCH
12/05/90 18:49:00 + 23:46
SAMPLE: 9011L775-002/WSI LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
ENHANCED (S 15B 2N 0T)

DATA: Y120513 # 713
CALI: Y120513 # 2

BASE M/Z: 91
RIC: 40319.



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW3

040

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-003

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

Lab File ID: Y120609

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/06/90

Column: (pack/cap) PACK

Dilution Factor: 25.0

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	250	U
74-83-9	Bromomethane	250	U
75-01-4	Vinyl Chloride	250	U
75-00-3	Chloroethane	250	U
75-09-2	Methylene Chloride	830	B
75-35-4	1,1-Dichloroethene	120	U
75-34-3	1,1-Dichloroethane	120	U
540-59-0	1,2-Dichloroethene (total)	120	U
67-66-3	Chloroform	120	U
107-06-2	1,2-Dichloroethane	120	U
71-55-6	1,1,1-Trichloroethane	120	U
56-23-5	Carbon Tetrachloride	120	U
75-27-4	Bromodichloromethane	120	U
78-87-5	1,2-Dichloropropane	120	U
10061-01-5	cis-1,3-Dichloropropene	120	U
79-01-6	Trichloroethene	120	U
124-48-1	Dibromochloromethane	120	U
79-00-5	1,1,2-Trichloroethane	120	U
71-43-2	Benzene	120	U
10061-02-6	Trans-1,3-Dichloropropene	120	U
110-75-8	2-chloroethylvinylether	250	U
75-25-2	Bromoform	120	U
127-18-4	Tetrachloroethene	120	U
79-34-5	1,1,2,2-Tetrachloroethane	120	U
108-88-3	Toluene	120	U
108-90-7	Chlorobenzene	120	U
100-41-4	Ethylbenzene	3800	
95-50-1	1,2-Dichlorobenzene	120	U
541-73-1	1,3-Dichlorobenzene	29	J
106-46-7	1,4-Dichlorobenzene	120	U
107-02-8	Acrolein	250	U
107-13-1	Acrylonitrile	250	U
75-69-4	Trichlorofluoromethane	120	U
1330-20-7	Xylene (total)		E

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW3 047

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-003

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

Lab File ID: Y120609

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/06/90

Column: (pack/cap) PACK

Dilution Factor: 25.0

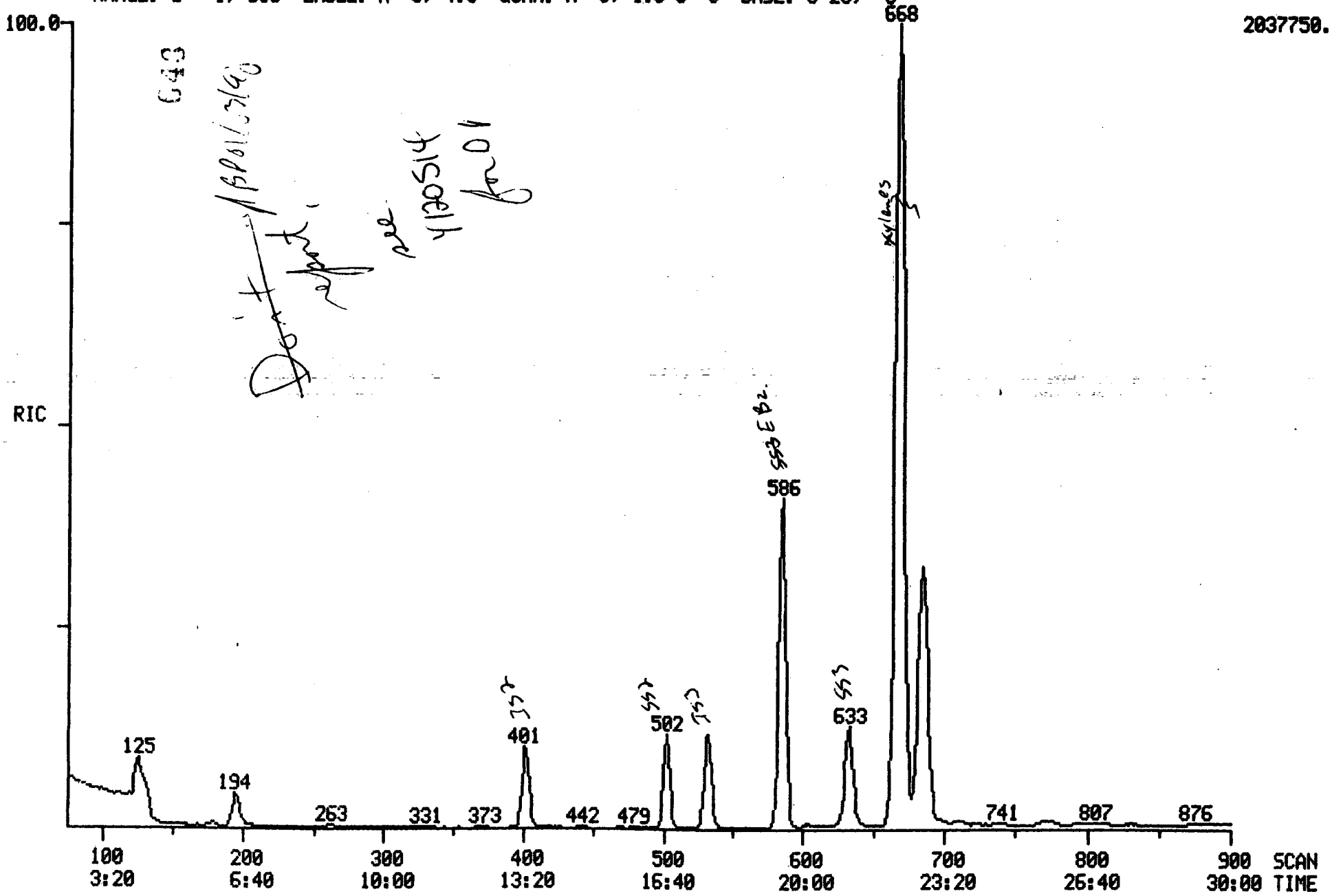
Number TICs found: 0

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

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

OK

RIC DATA: Y120609 #1 SCANS 75 TO 900
12/06/98 15:23:00 CALI: Y120609 #2
SAMPLE: 9011L775-03/WSI-LE CARPENTER/5.0 MLS OF A 1:25 DIL
CONDS.: VO/5100Y DIL25
RANGE: G 1, 900 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: Y120609

Data: Y120609.TI
12/06/90 15:23:00
Sample: 9011L775-03/WSI-LE CARPENTER/5.0 MLS OF A 1:25 DIL
Conds.: VO/5100Y DIL25
Formula: Y120602 Instrument: 5100Y Weight: 0.001
Submitted by: Y120602 Analyst: JBD Acct. No.: 120690

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	
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		CIS-1,3-DICHLOROPROPENE	
26	87V	TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30		TRANS-1,3-DICHLOROPROPENE	
31	19V	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	XYLENE

050

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	124	4:08	1	1.000	A BB	71566.	50.000 UG/L	3.99
2	65	194	6:28	1	1.565	A BB	190012.	50.488 UG/L	4.03
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	69	2:18	1	0.556	A BB	81996.	33.347 UG/L	2.66
8	43	81	2:42	1	0.653	A VV	27409.	29.549 UG/L	2.36 <10%
9	NOT FOUND								
10	76	101	3:22	1	0.815	A BB	15276.	2.773 UG/L	0.22 <10%
11	101	110	3:40	1	0.887	A BB	437.	0.091 UG/L	0.01
12	NOT FOUND								
13	96	124	4:08	1	1.000	A BB	216.	0.117 UG/L	0.01
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	114	401	13:22	18	1.000	A BB	381196.	50.000 UG/L	3.99
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	43	247	8:14	18	0.616	A BV	2803.	0.592 UG/L	0.05
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	78	331	11:02	18	0.825	A BB	1502.	0.160 UG/L	0.01
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	117	532	17:44	33	1.000	A BB	354911.	50.000 UG/L	3.99
34	98	502	16:44	33	0.944	A BB	444114.	51.708 UG/L	4.13
35	95	633	21:06	33	1.190	A BB	317111.	49.302 UG/L	3.94
36	43	420	14:00	33	0.789	A VB	553.	0.226 UG/L	0.02
37	43	461	15:22	33	0.867	A BB	940.	0.446 UG/L	0.04
38	NOT FOUND								
39	NOT FOUND								
40	92	507	16:54	33	0.953	A BB	2070.	0.330 UG/L	0.03
41	NOT FOUND								
42	106	586	19:32	33	1.102	A BB	523039.	153.474 UG/L	12.26 D
43	NOT FOUND								
44	106	685	22:50	33	1.288	A BB	689641.	173.795 UG/L	13.88 ~~NONTARGE~~
45	146	741	24:42	33	1.393	A BB	6693.	1.141 UG/L	0.09
46	146	757	25:14	33	1.423	A BB	225.	0.040 UG/L	0.00
47	NOT FOUND								
48	106	668	22:16	33	1.256	A BB	2294550.	554.595 UG/L E	44.29 ~~NONTARGE~~

728.39

1 glenisane targets -

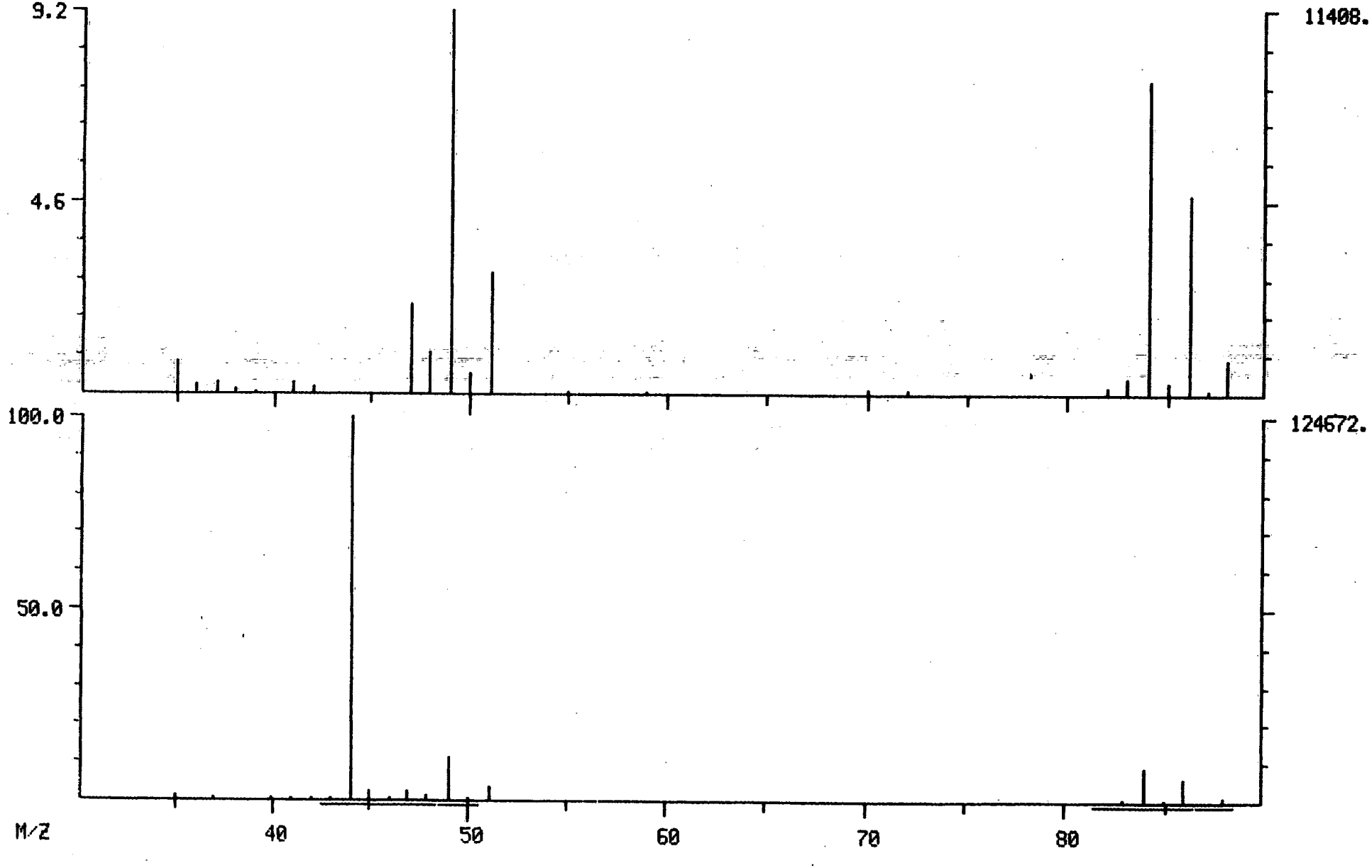
JBD 01/03/98

051

DUAL MASS SPECTRUM
12/06/90 15:23:00 + 2:18
SAMPLE: 9011L775-03/WSI-LE CARPENTER/5.0 MLS OF A 1:25 DIL
CONDS.: VO/5100Y DIL25
GC TEMP: 79 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120609 #69
CALI: Y120609 #2

BASE M/Z: 49/ 44
RIC: 39551./ 180223.

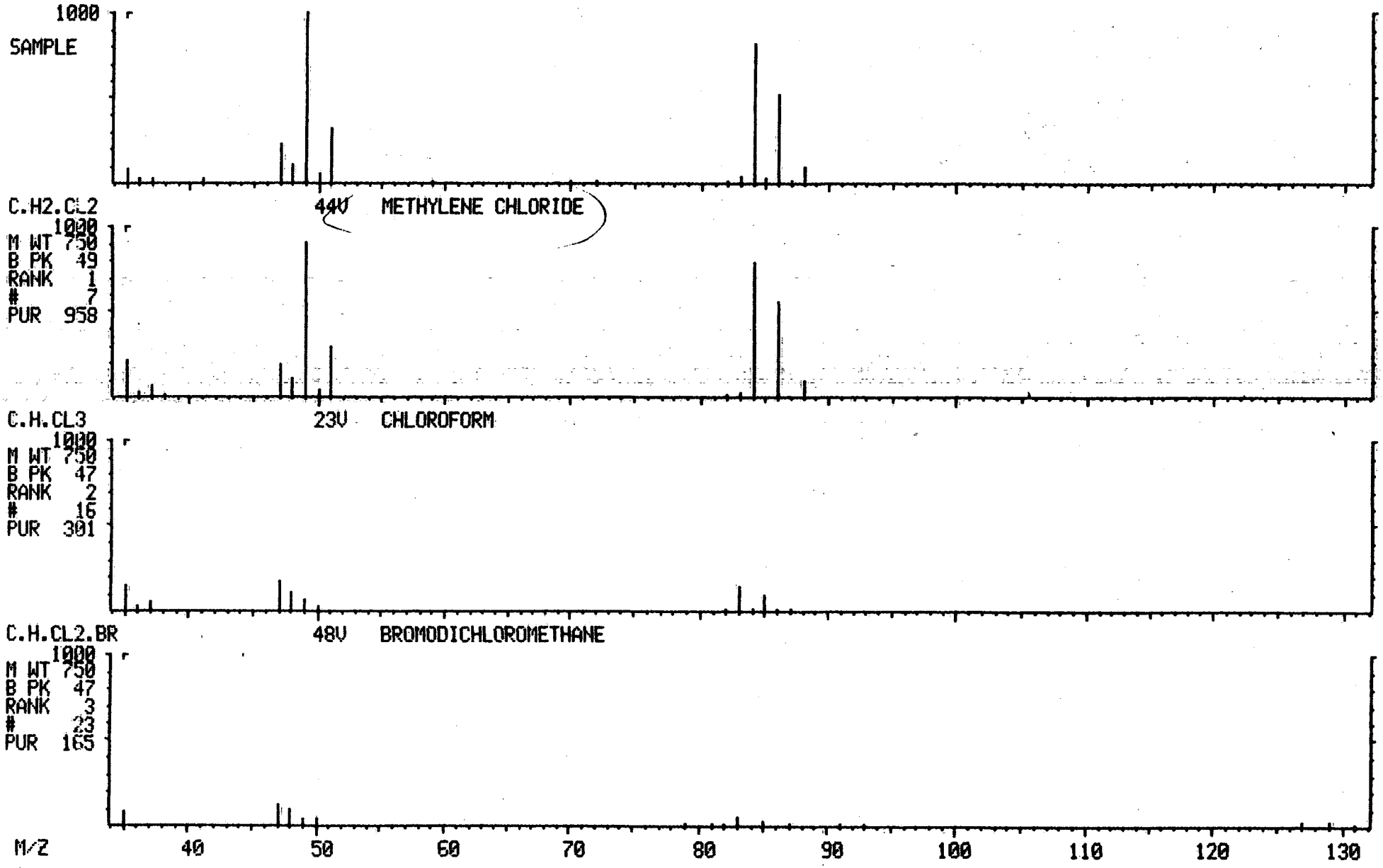


052

LIBRARY SEARCH
12/06/90 15:23:00 + 2:18
SAMPLE: 9011L775-03/WSI-LE CARPENTER/5.0 MLS OF A 1:25 DIL
CONDS.: VO/5100Y DIL25
ENHANCED (S 15B 2N 0T)

DATA: Y120609 # 69
CALI: Y120609 # 2

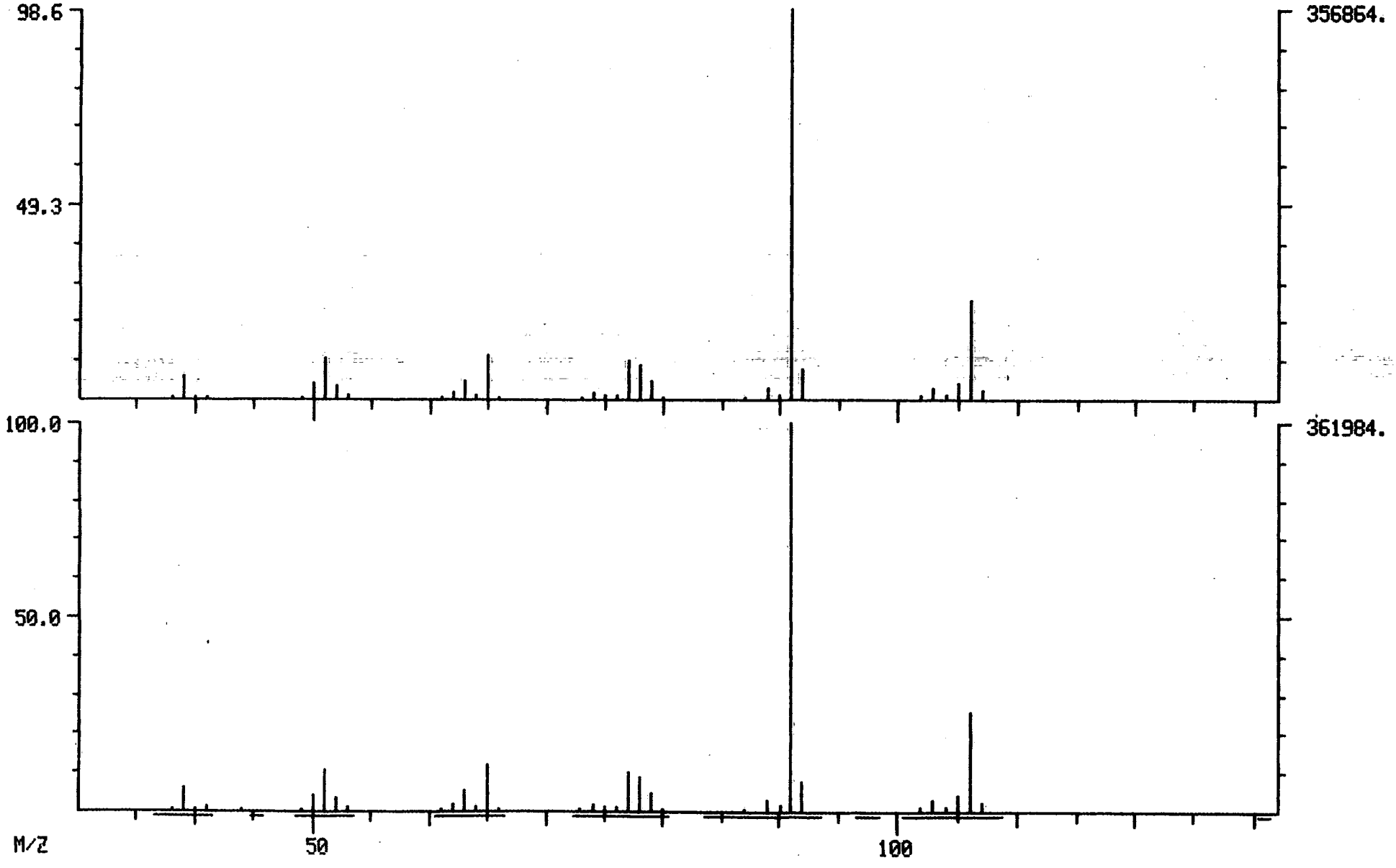
BASE M/Z: 49
RIC: 39103.



DUAL MASS SPECTRUM
12/06/90 15:23:00 + 19:32
SAMPLE: 9011L775-03/WSI-LE CARPENTER/5.0 MLS OF A 1:25 DIL
CONDS.: VO/5100Y DIL25
GC TEMP: 210 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120609 #586
CALI: Y120609 #2

BASE M/Z: 91/ 91
RIC: 819199./ 839679.

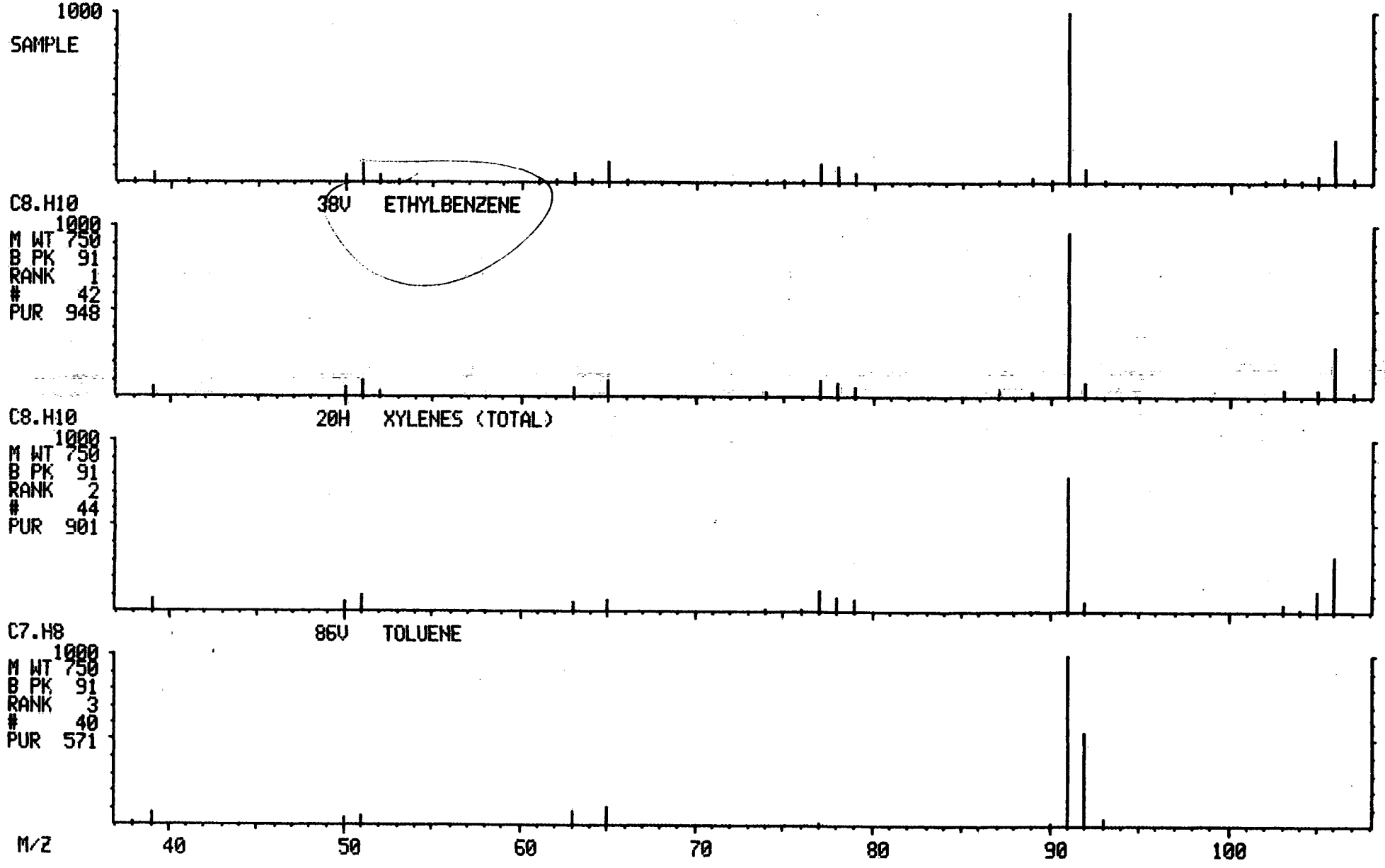


054

LIBRARY SEARCH
12/06/90 15:23:00 + 19:32
SAMPLE: 9011L775-03/WSI-LE CARPENTER/5.0 MLS OF A 1:25 DIL
CONDS.: VO/5100Y DIL25
ENHANCED (S 15B 2N 0T)

DATA: Y120609 # 586
CALI: Y120609 # 2

BASE M/Z: 91
RIC: 806911.

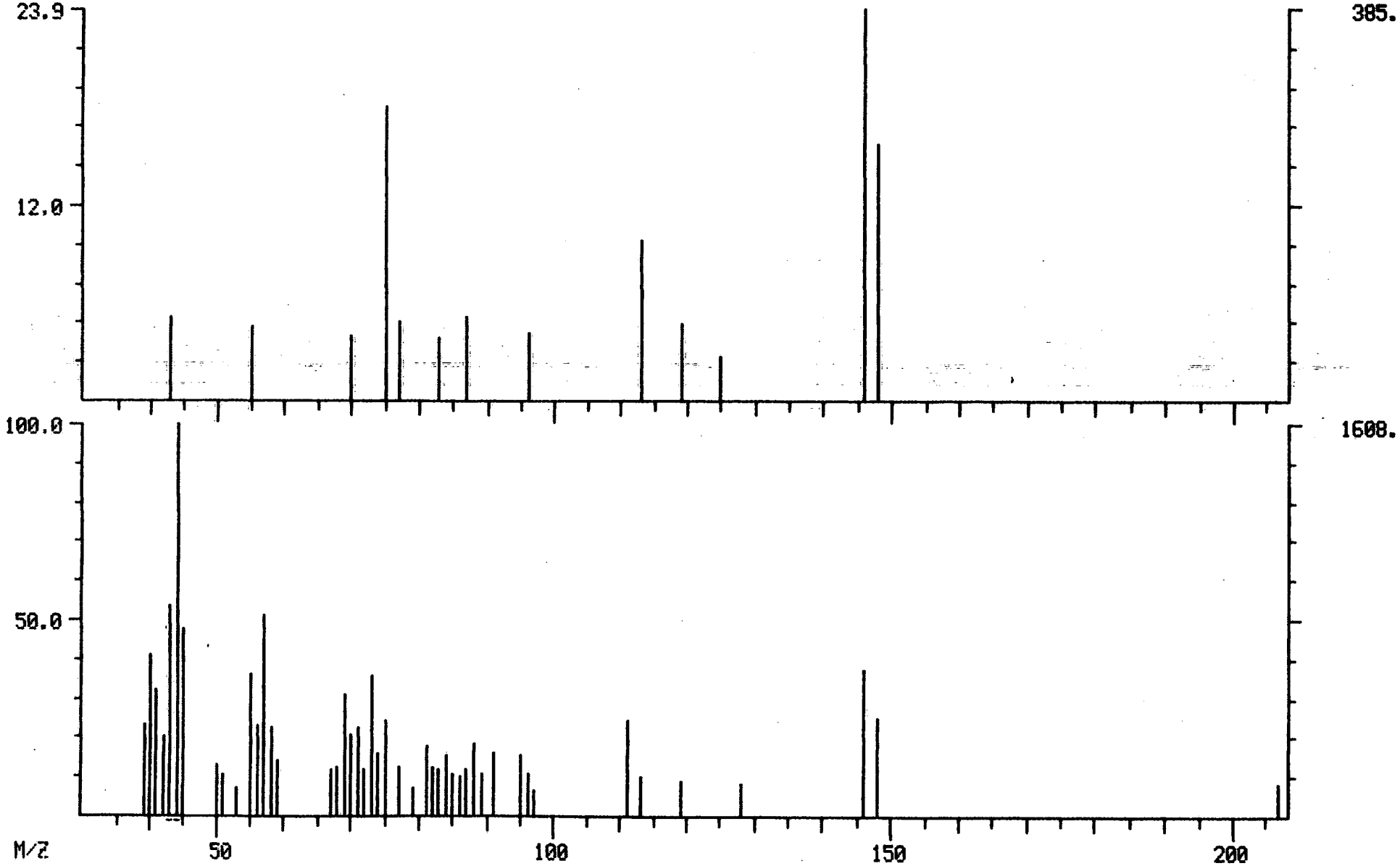


055

DUAL MASS SPECTRUM
12/06/90 15:23:00 + 24:42
SAMPLE: 9011L775-03/WSI-LE CARPENTER/5.0 MLS OF A 1:25 DIL
CONDS.: VO/5100Y DIL25
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120609 #741
CALI: Y120609 #2

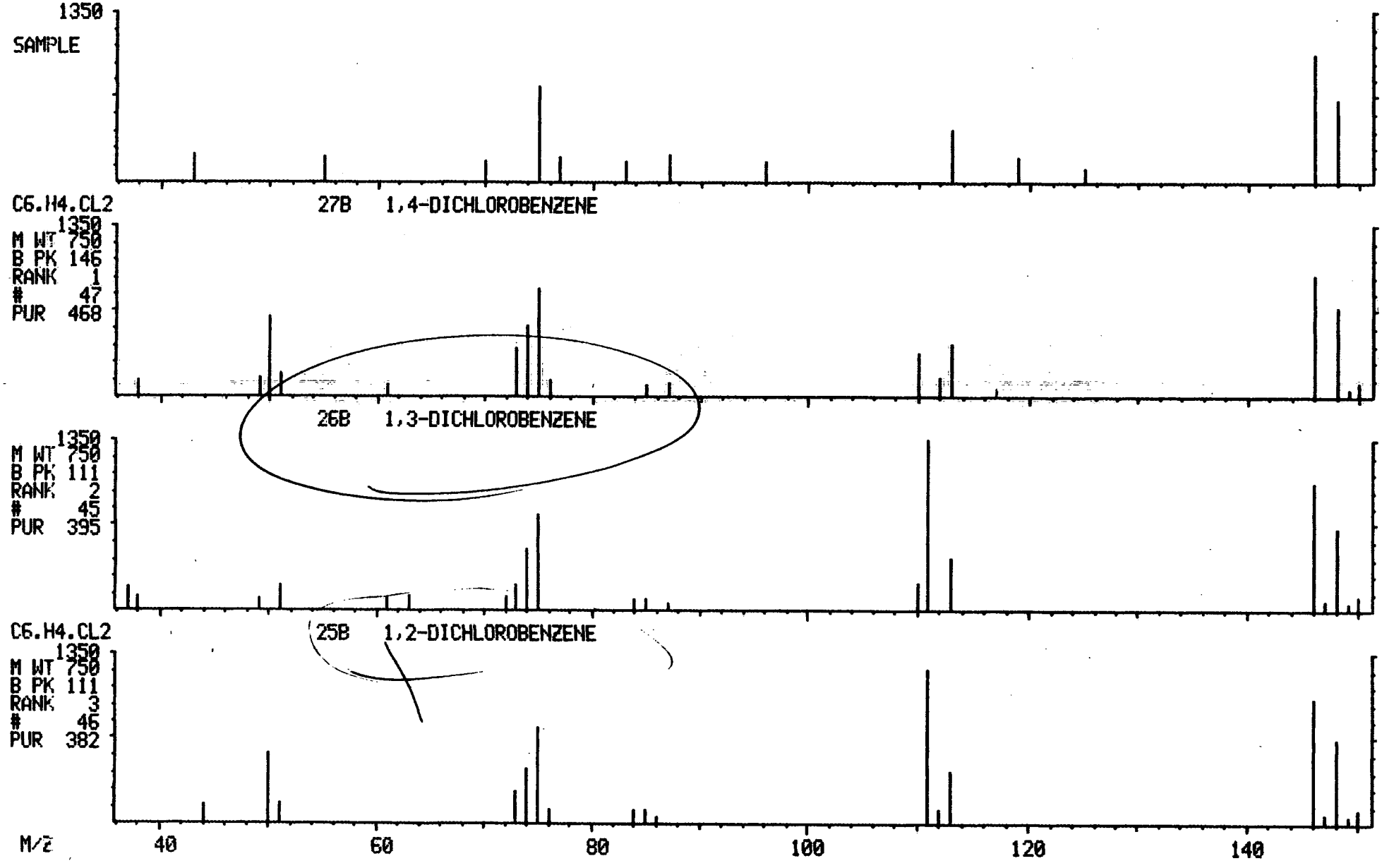
BASE M/Z: 146/ 44
RIC: 1717./ 16047.



LIBRARY SEARCH
12/06/90 15:23:00 + 24:42
SAMPLE: 9011L775-03/WSI-LE CARPENTER/5.0 MLS OF A 1:25 DIL
CONDS.: VO/5100Y DIL25
ENHANCED (S 15B 2N 0T)

DATA: Y120609 # 741
CALI: Y120609 # 2

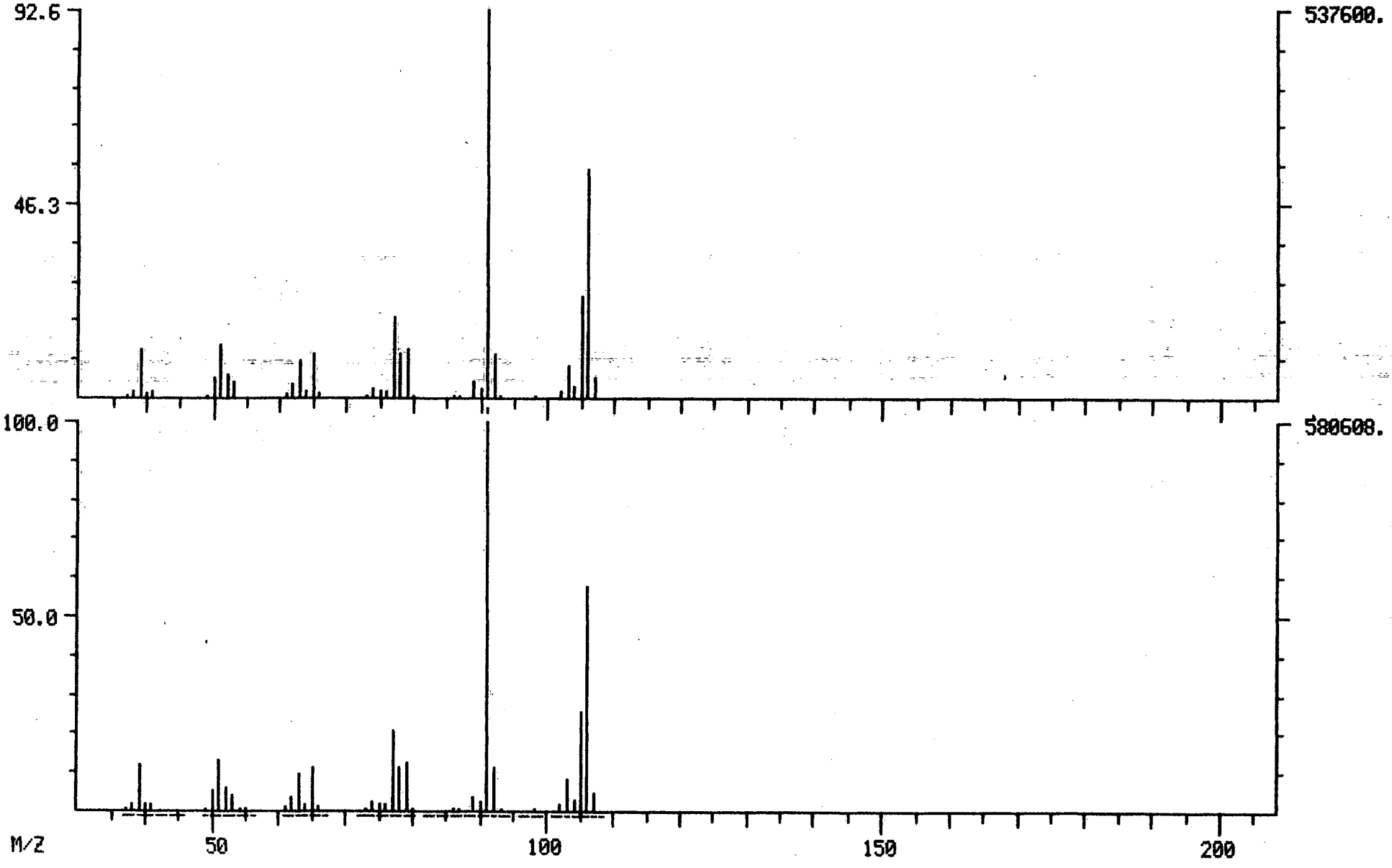
BASE M/Z: 146
RIC: 1717.



DUAL MASS SPECTRUM
12/06/90 15:23:00 + 22:16
SAMPLE: 9011L775-03/WSI-LE CARPENTER/5.0 MLS OF A 1:25 DIL
CONDS.: VO/5100Y DIL25
GC TEMP: 217 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120609 #668
CALI: Y120609 #2

BASE M/Z: 91/ 91
RIC: 1900540./ 2041850.

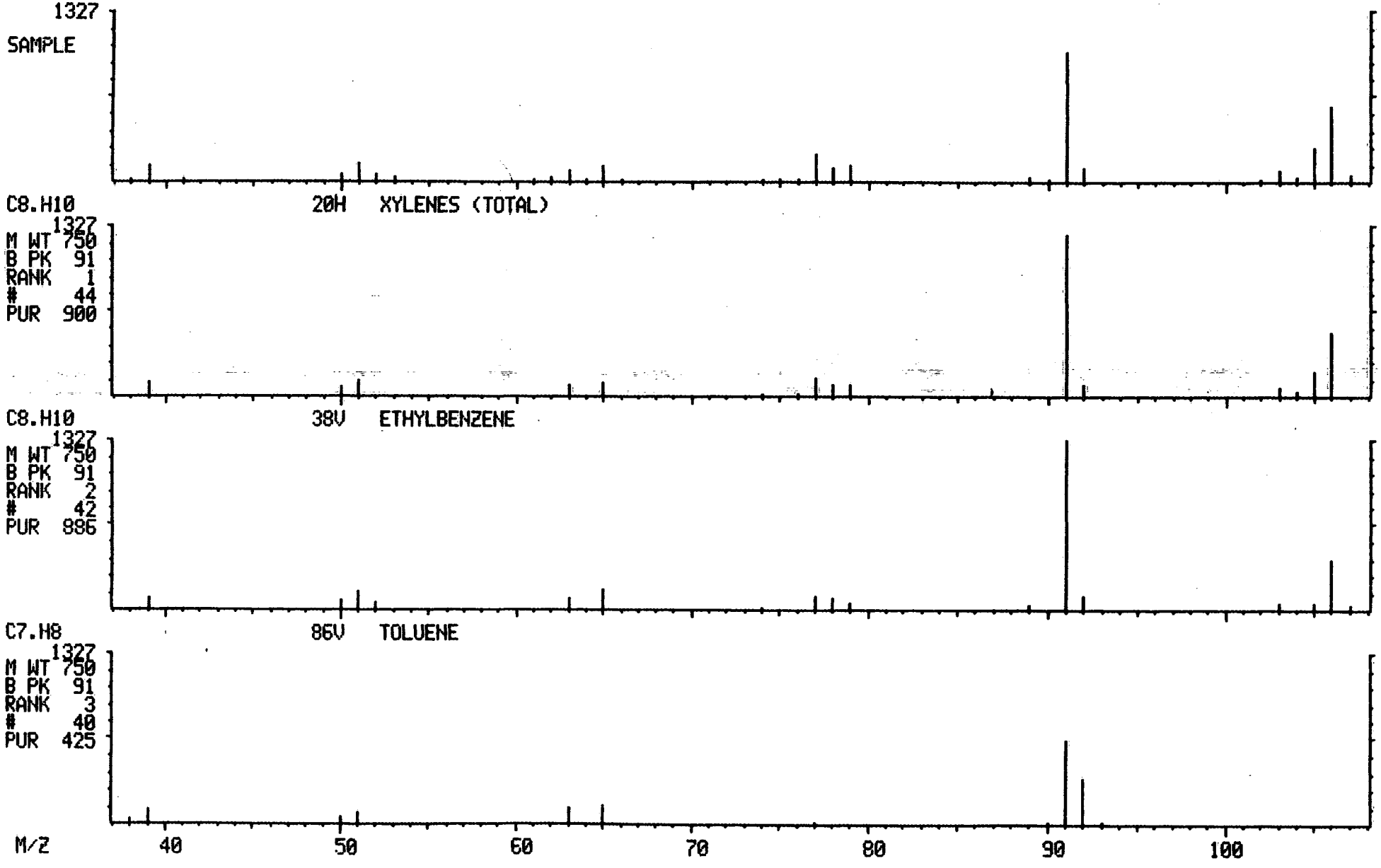


058

LIBRARY SEARCH
12/06/90 15:23:00 + 22:16
SAMPLE: 9011L775-03/WSI-LE CARPENTER/5.0 MLS OF A 1:25 DIL
CONDS.: VO/5100Y DIL25
ENHANCED (S 15B 2N 0T)

DATA: Y120609 # 668
CALI: Y120609 # 2

BASE M/Z: 91
RIC: 1857530.

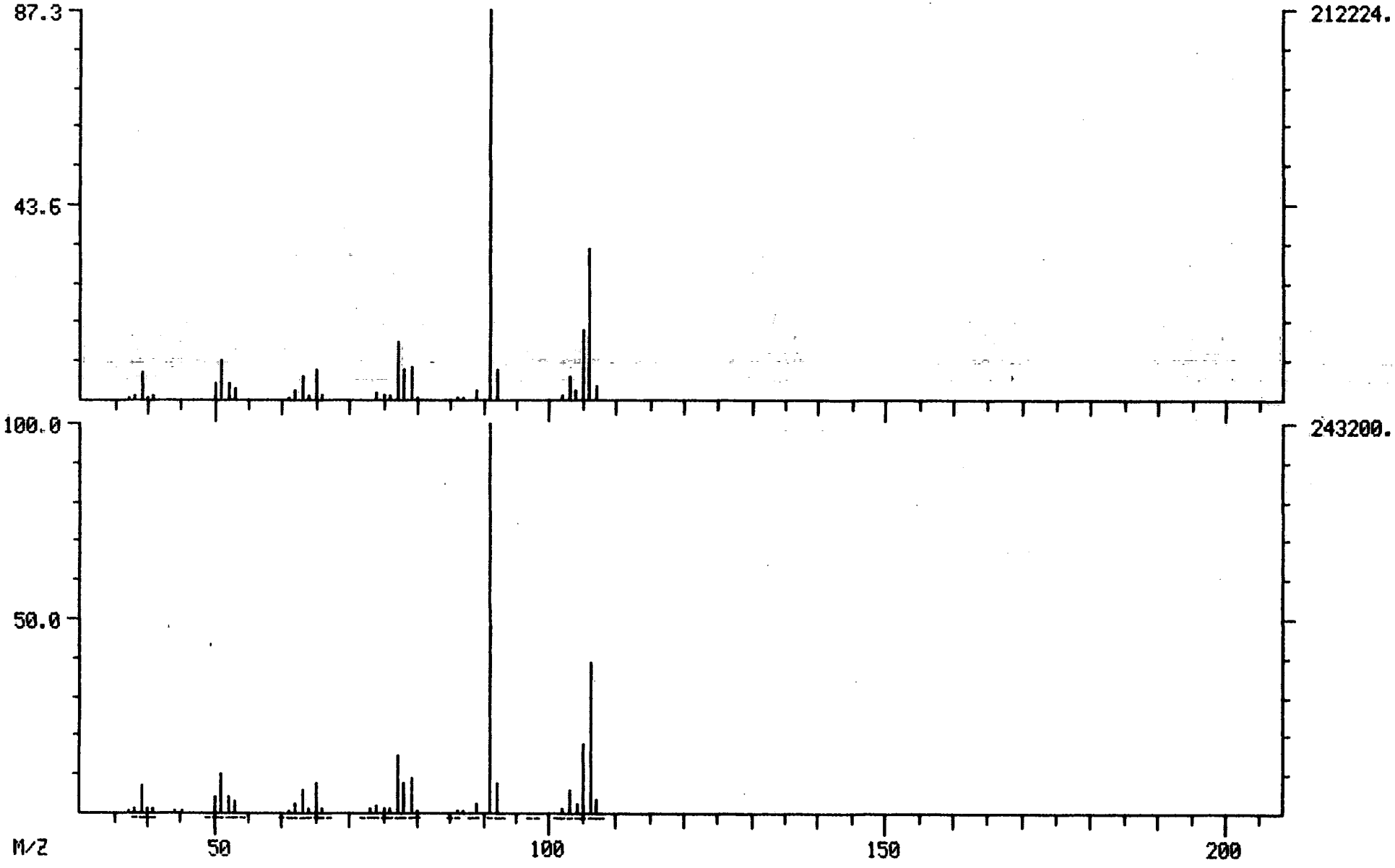


059

DUAL MASS SPECTRUM
12/06/90 15:23:00 + 22:50
SAMPLE: 9011L775-03/WSI-LE CARPENTER/5.0 MLS OF A 1:25 DIL
CONDS.: VO/5100Y DIL25
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120609 #685
CALI: Y120609 #2

BASE M/Z: 91/ 91
RIC: 567295./ 665599.

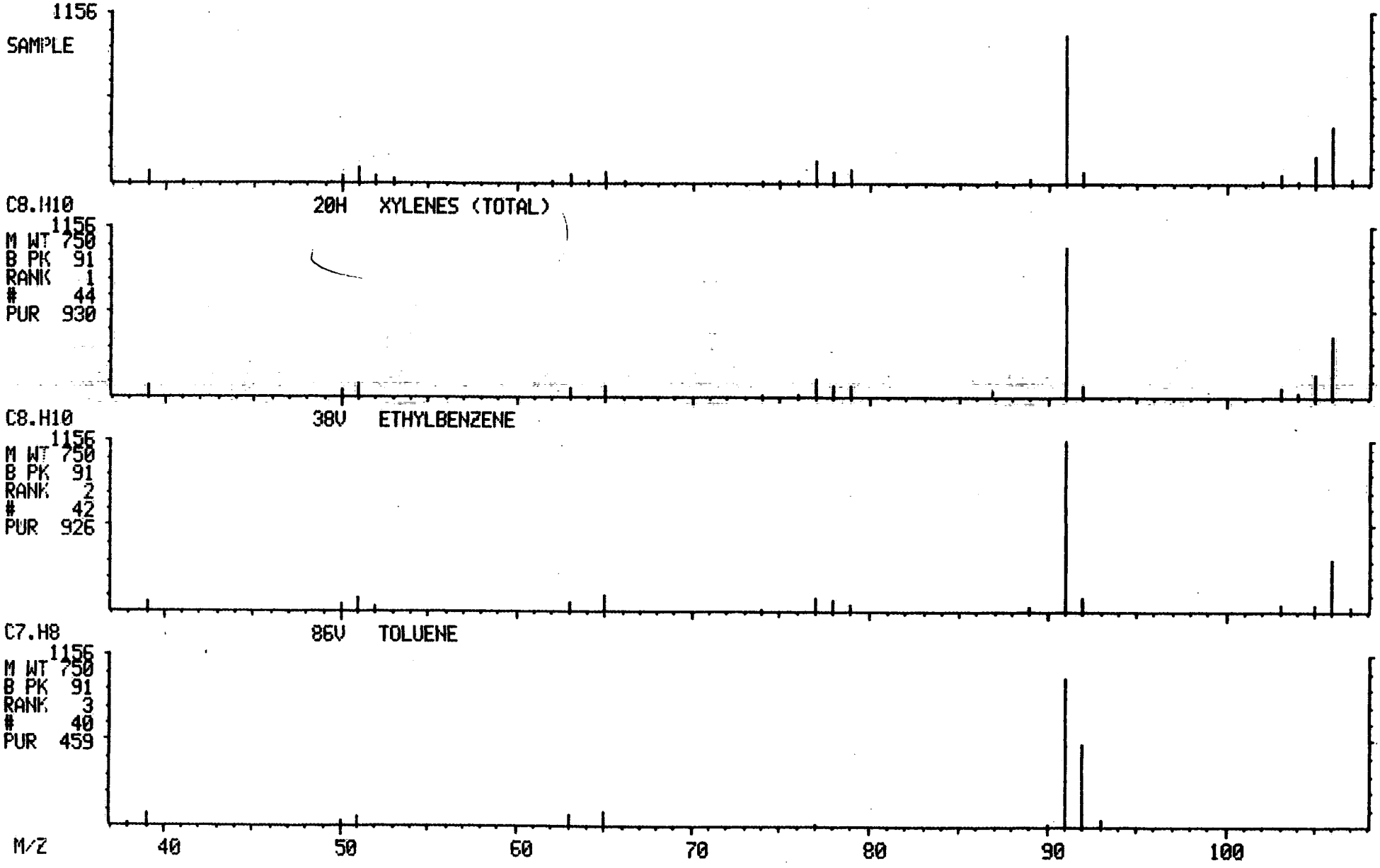


090

LIBRARY SEARCH
12/06/90 15:23:00 + 22:50
SAMPLE: 9011L775-03/WSI-LE CARPENTER/5.0 MLS OF A 1:25 DIL
CONDS.: VO/5100Y DIL25
ENHANCED (S 15B 2N 0T)

DATA: Y120609 # 685
CALI: Y120609 # 2

BASE M/Z: 91
RIC: 558079.



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW3DL

061

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-003 DL

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

Lab File ID: Y120514

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

Column: (pack/cap) PACK

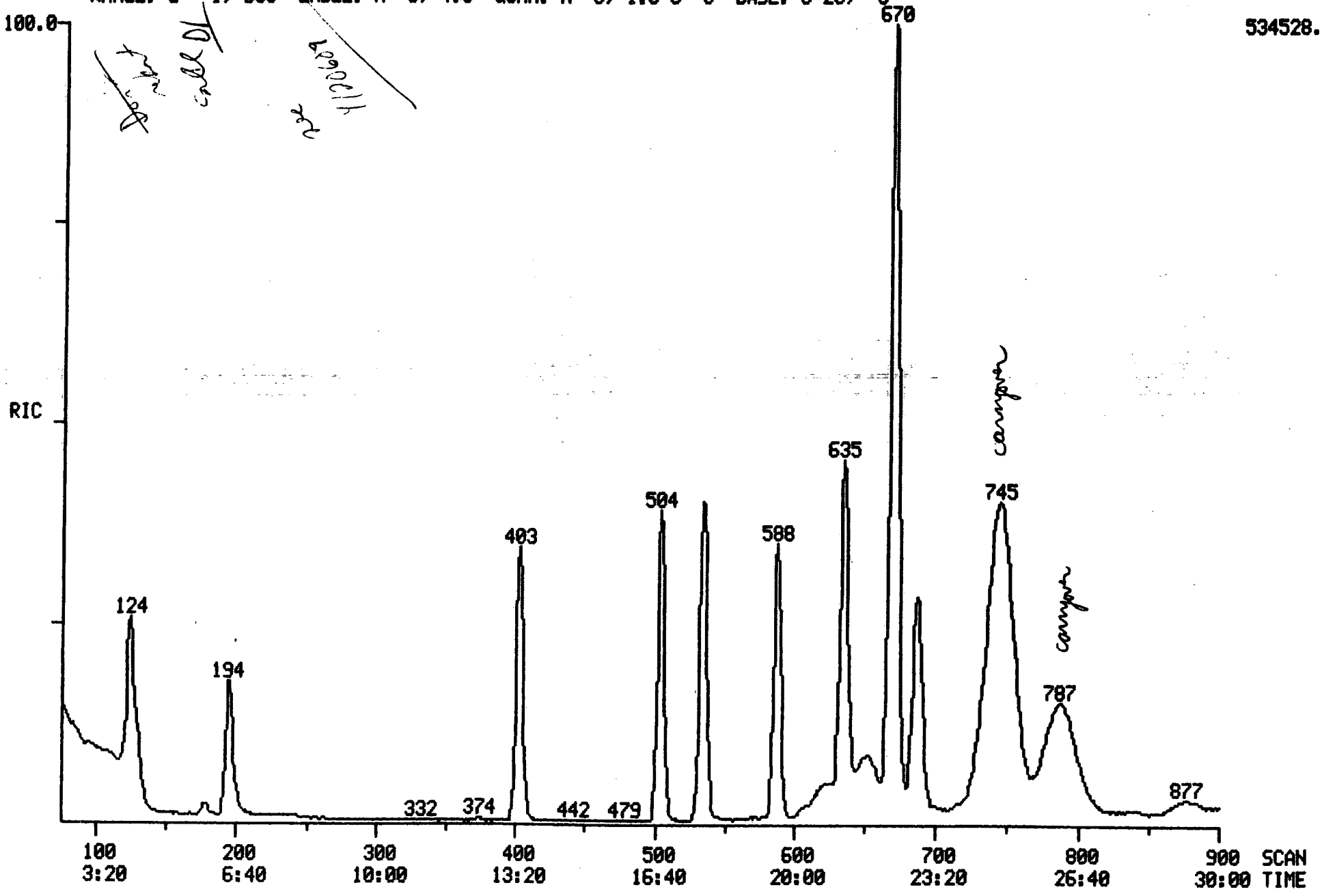
Dilution Factor: 100

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	NA	
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	

062

RIC DATA: Y120514 #1 SCANS 75 TO 900
12/05/90 19:23:00 CALI: Y120514 #2
SAMPLE: 9011L775-003/WSI LE CARPENTER/5.0 ML OF A 1:100
CONDS.: VO/5100Y DIL100
RANGE: G 1, 900 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: Y120514

003

Data: Y120514.TI
12/05/90 19:23:00
Sample: 9011L775-003/WSI LE CARPENTER/5.0 ML OF A 1:100
Conds.: VO/5100Y DIL100
Formula: Y120501 Instrument: 5100Y Weight: 0.007
Submitted by: Y120501 Analyst: JBD Acct. No.: 120590

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	
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		CIS-1,3-DICHLOROPROPENE	
26	87V	TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30		TRANS-1,3-DICHLOROPROPENE	
31	19V	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	XYLENE

064

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	128	124	4:08	1	1.000	A BB	63217.	50.000 UG/L	9.39	
2	65	194	6:28	1	1.565	A BB	228289.	50.661 UG/L	9.52	
3	NOT FOUND									
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	84	67	2:14	1	0.540	A BB	67207.	28.849 UG/L	5.42	U1
8	43	79	2:38	1	0.637	A BB	13716.	12.746 UG/L	2.39	U1
9	NOT FOUND									
10	76	101	3:22	1	0.815	A BB	14045.	2.597 UG/L	0.49	U1
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
17	NOT FOUND									
18	114	403	13:26	18	1.000	A BB	309420.	50.000 UG/L	9.39	
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	43	248	8:16	18	0.615	A VB	1783.	0.380 UG/L	0.07	
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	78	331	11:02	18	0.821	A BB	261.	0.036 UG/L	0.01	
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	117	534	17:48	33	1.000	A BB	302603.	50.000 UG/L	9.39	
34	98	504	16:48	33	0.944	A BB	357157.	49.977 UG/L	9.39	
35	95	635	21:10	33	1.189	A BB	276144.	51.416 UG/L	9.66	
36	43	418	13:56	33	0.783	A BB	868.	0.296 UG/L	0.06	
37	NOT FOUND									
38	NOT FOUND									
39	NOT FOUND									
40	92	509	16:58	33	0.953	A BB	829.	0.153 UG/L	0.03	
41	NOT FOUND									
42	106	588	19:36	33	1.101	A BB	107656.	33.495 UG/L	6.29	NA
43	NOT FOUND									
44	106	687	22:54	33	1.287	A BB	134659.	40.630 UG/L	7.63	
45	NOT FOUND									
46	NOT FOUND									
47	NOT FOUND									
48	106	670	22:20	33	1.255	A BB	471524.	111.133 UG/L	20.88	

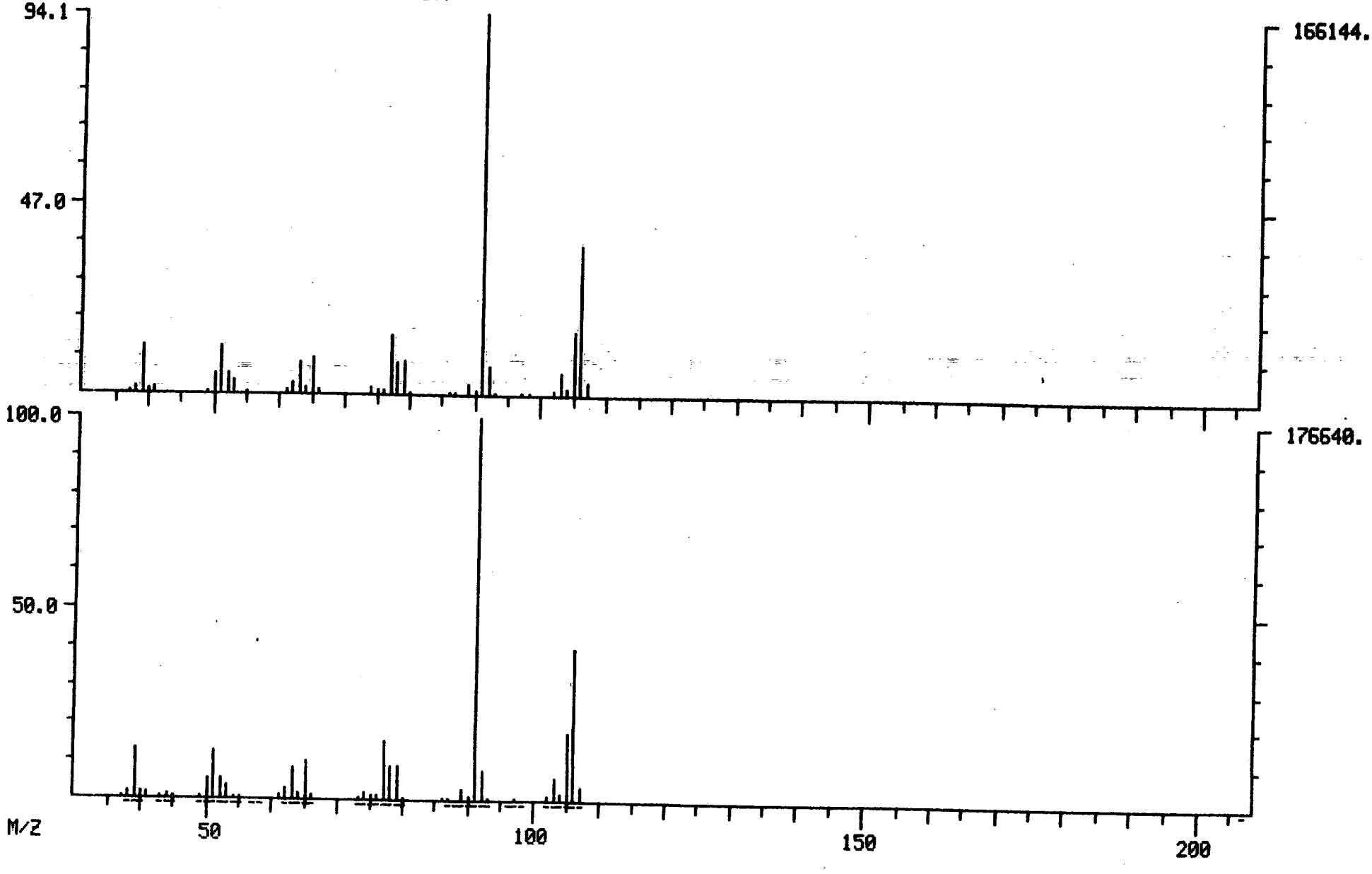
151.763

JBD 1/03/90

DUAL MASS SPECTRUM
12/05/90 19:23:00 + 22:20
SAMPLE: 9011L775-003/WSI LE CARPENTER/5.0 ML OF A 1:100
CONDS.: VO/5100Y DIL100
GC TEMP: 217 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120514 #670
CALI: Y120514 #2

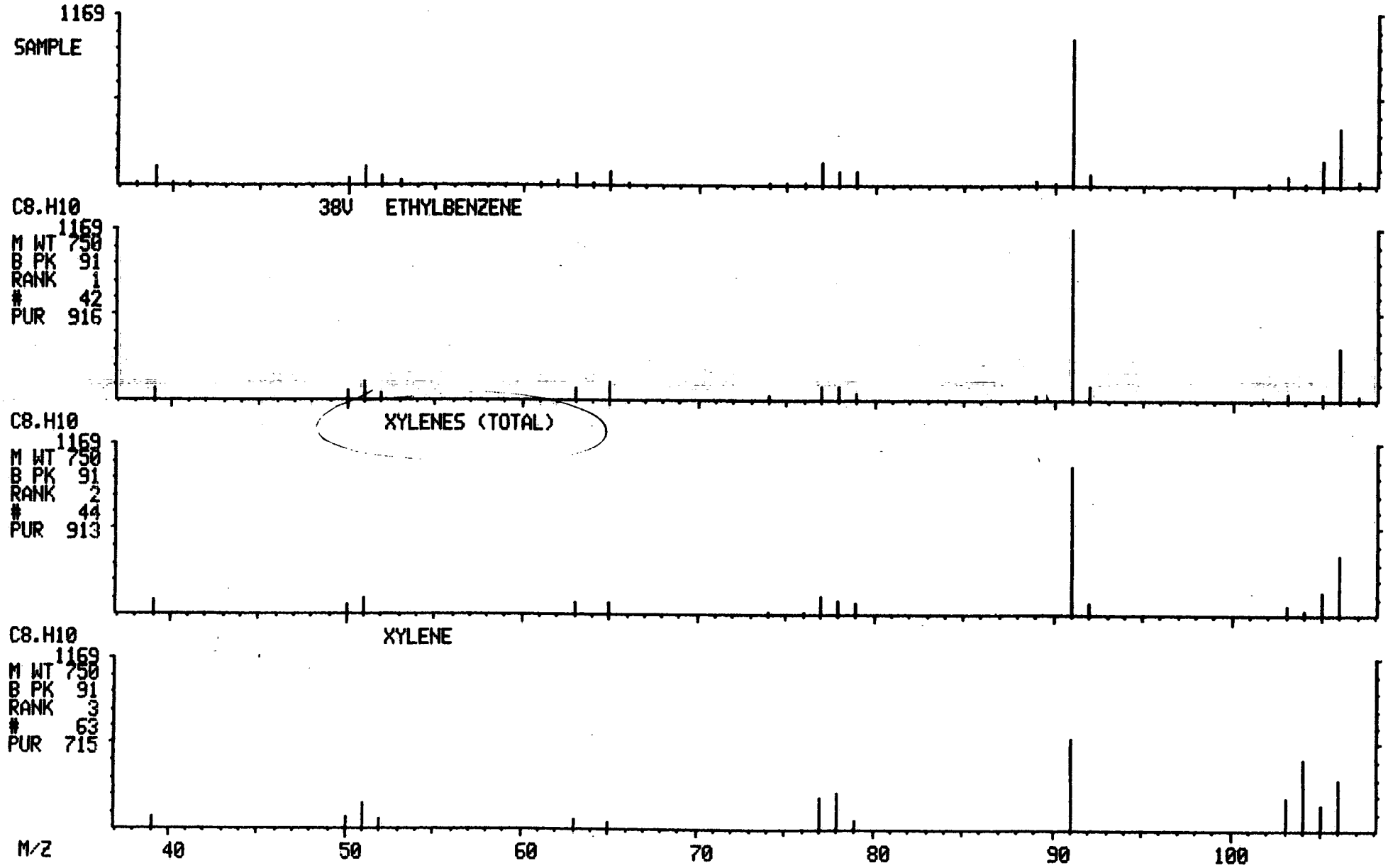
BASE M/Z: 91/ 91
RIC: 485887./ 533503.



LIBRARY SEARCH
12/05/90 19:23:00 + 22:20
SAMPLE: 9011L775-003/WSI LE CARPENTER/5.0 ML OF A 1:100
CONDS.: VO/5100Y DIL100
ENHANCED (S 15B 2N 0T)

DATA: Y120514 # 670
CALI: Y120514 # 2

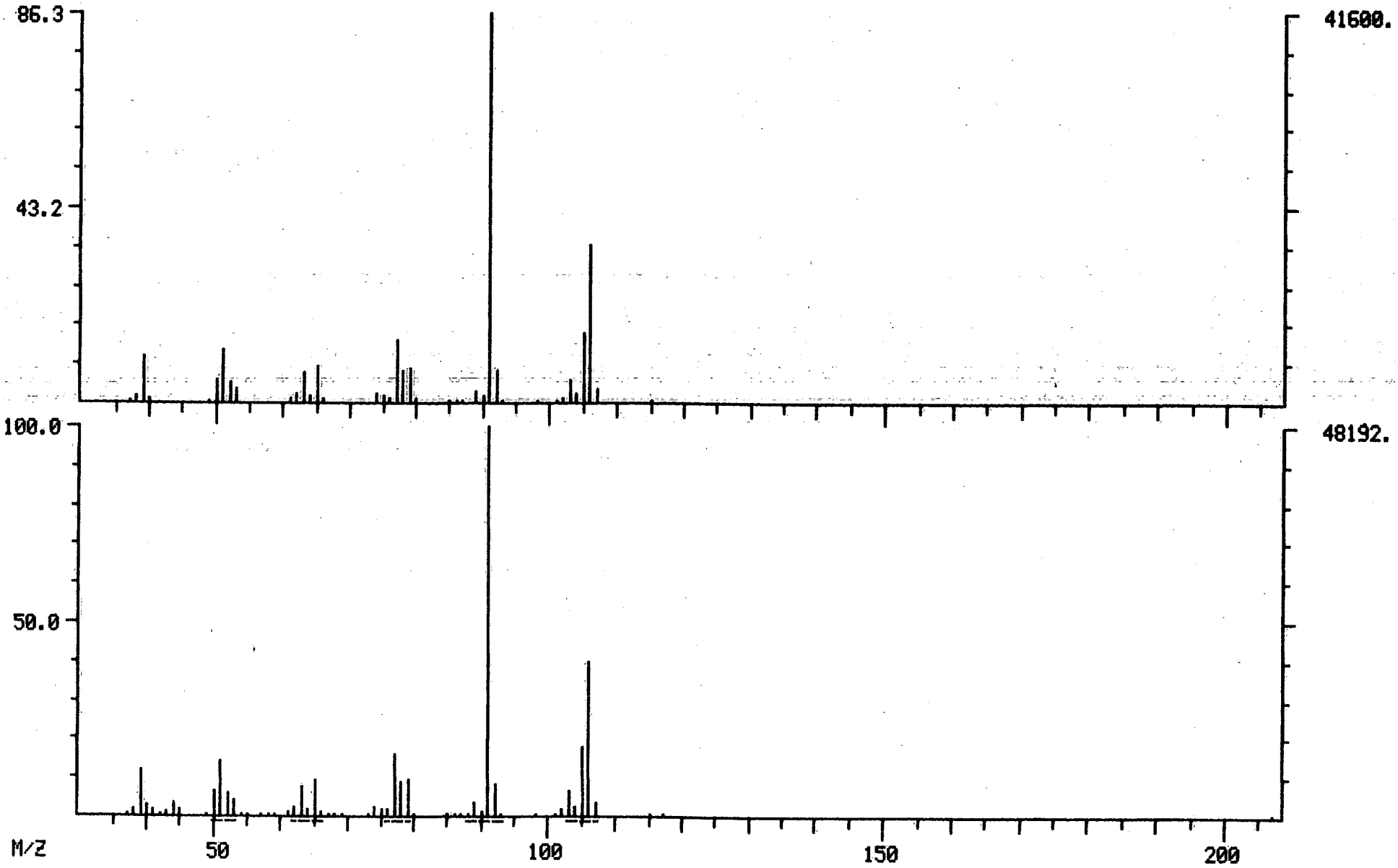
BASE M/Z: 91
RIC: 475135.



DUAL MASS SPECTRUM
12/05/90 19:23:00 + 22:54
SAMPLE: 9011L775-003/WSI LE CARPENTER/5.0 ML OF A 1:100
CONDS.: VO/5100Y DIL100
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120514 #687
CALI: Y120514 #2

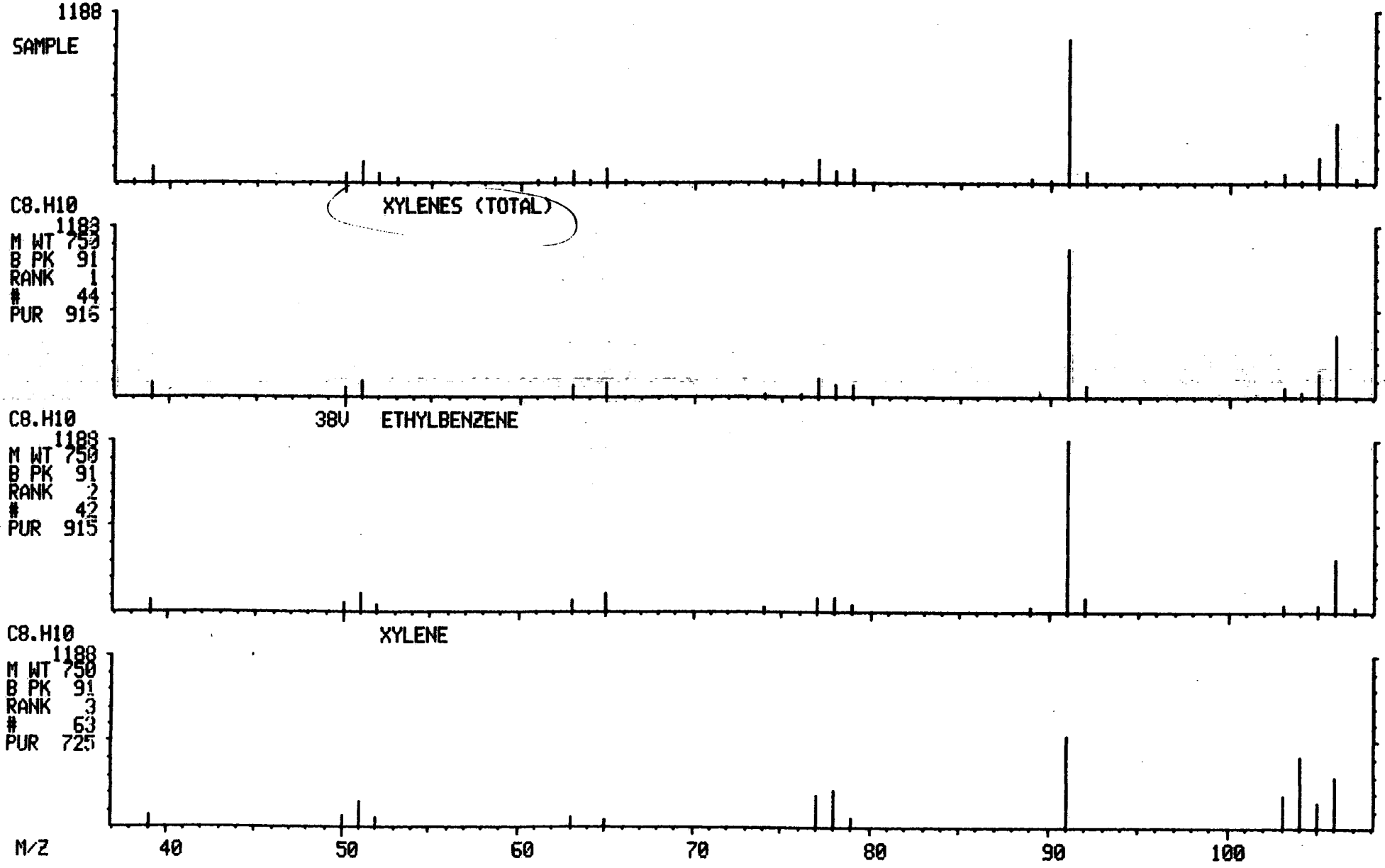
BASE M/Z: 91/ 91
RIC: 123647./ 153599.



LIBRARY SEARCH
12/05/90 19:23:00 + 22:54
SAMPLE: 9011L775-003/WSI LE CARPENTER/5.0 ML OF A 1:100
CONDS.: VO/5100Y DIL100
ENHANCED (S 15B 2N 0T)

DATA: Y120514 # 687
CALI: Y120514 # 2

BASE M/Z: 91
RIC: 120575.



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW4

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-004

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

Lab File ID: Y120507

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

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	17	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.

MW4 070

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-004

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

Lab File ID: Y120507

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

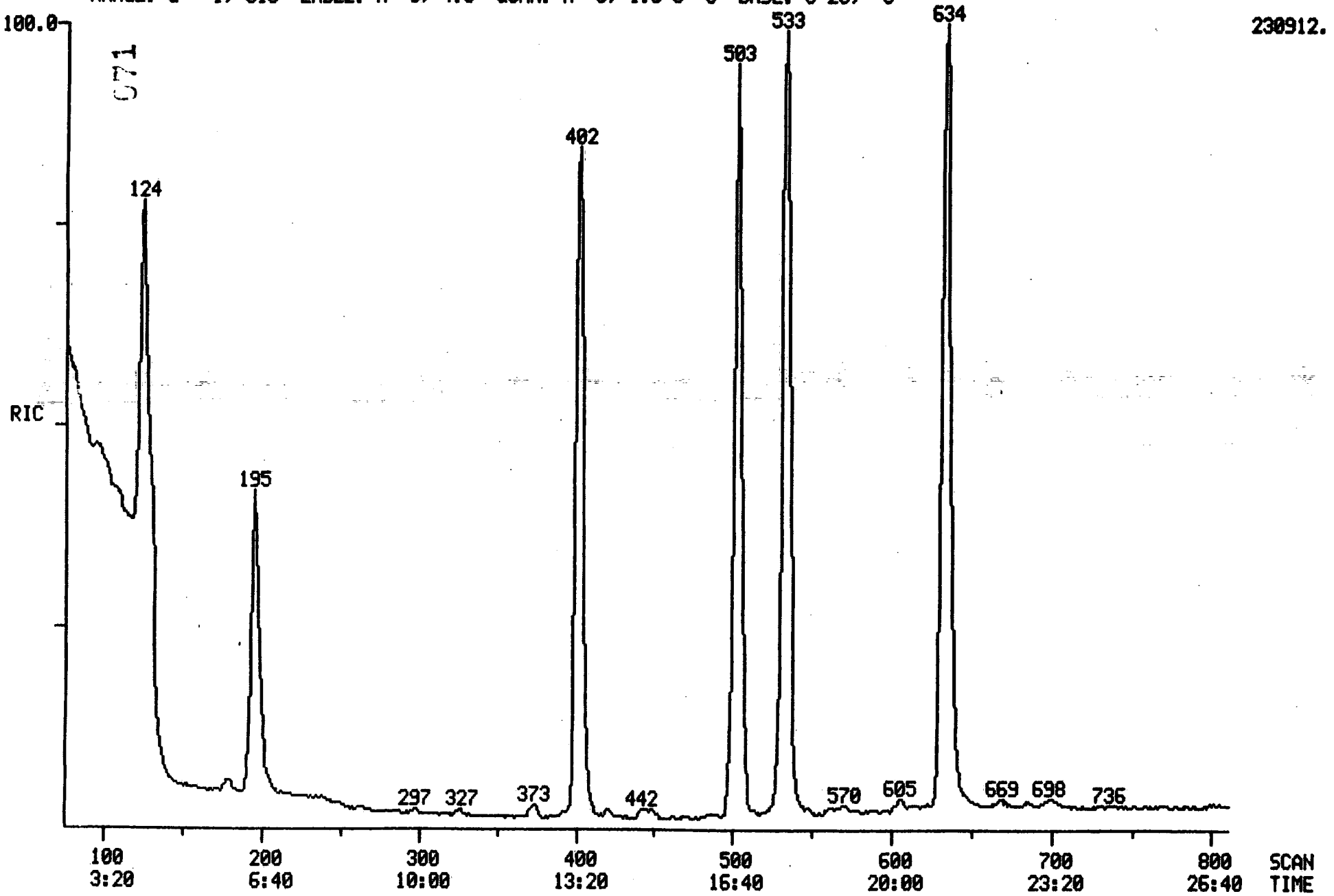
Number TICs found: 0

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

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

GK
NO TIC

RIC DATA: Y120507 #1 SCANS 75 TO 810
12/05/90 15:04:00 CALI: Y120507 #2
SAMPLE: 9011L775-004/LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
RANGE: G 1, 810 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: Y120507

Data: Y120507.TI
12/05/90 15:04:00
Sample: 9011L775-004/LE CARPENTER/5.0 ML
Conds.: VO/5100Y
Formula: Y120501 Instrument: 5100Y Weight: 0.002
Submitted by: Y120501 Analyst: JBD Acct. No.: 120590

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	
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5		ACETONITRILE	
6	88V	VINYL CHLORIDE	
7	16V	CHLOROETHANE	
8	44V	METHYLENE CHLORIDE	
9	13H	ACETONE	
10	21H	ACROLEIN	
11	15H	CARBON DISULFIDE	
12	24H	TRICHLOROFLUOROMETHANE	
13	22H	ACRYLONITRILE	
14	29V	1,1-DICHLOROETHYLENE	
15	13V	1,1-DICHLOROETHANE	
16		1,2-DICHLOROETHENE (TOTAL)	
17	23V	CHLOROFORM	
18	10V	1,2-DICHLOROETHANE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	14H	2-BUTANONE	
21	11V	1,1,1-TRICHLOROETHANE	
22	6V	CARBON TETRACHLORIDE	
23	19H	VINYL ACETATE	
24	48V	BROMODICHLOROMETHANE	
25	32V	1,2-DICHLOROPROPANE	
26		CIS-1,3-DICHLOROPROPENE	
27	87V	TRICHLOROETHYLENE	
28	51V	DIBROMOCHLOROMETHANE	
29	14V	1,1,2-TRICHLOROETHANE	
30	4V	BENZENE	
31		TRANS-1,3-DICHLOROPROPENE	
32	19V	2-CHLOROETHYLVINYLETHER	
33	47V	BROMOFORM	
34	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
35	SS2	TOLUENE D8	SURROGATE STANDARD #2
36	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
37	17H	4-METHYL-2-PENTANONE	
38	16H	2-HEXANONE	
39	85V	TETRACHLOROETHYLENE	
40	15V	1,1,2,2-TETRACHLOROETHANE	
41	86V	TOLUENE	
42	7V	CHLOROBENZENE	
43	38V	ETHYLBENZENE	
44	18H	STYRENE	
45		XYLENES (TOTAL)	
46	26B	1,3-DICHLOROBENZENE	
47	25B	1,2-DICHLOROBENZENE	

No	Name
48	27B 1,4-DICHLOROBENZENE

073

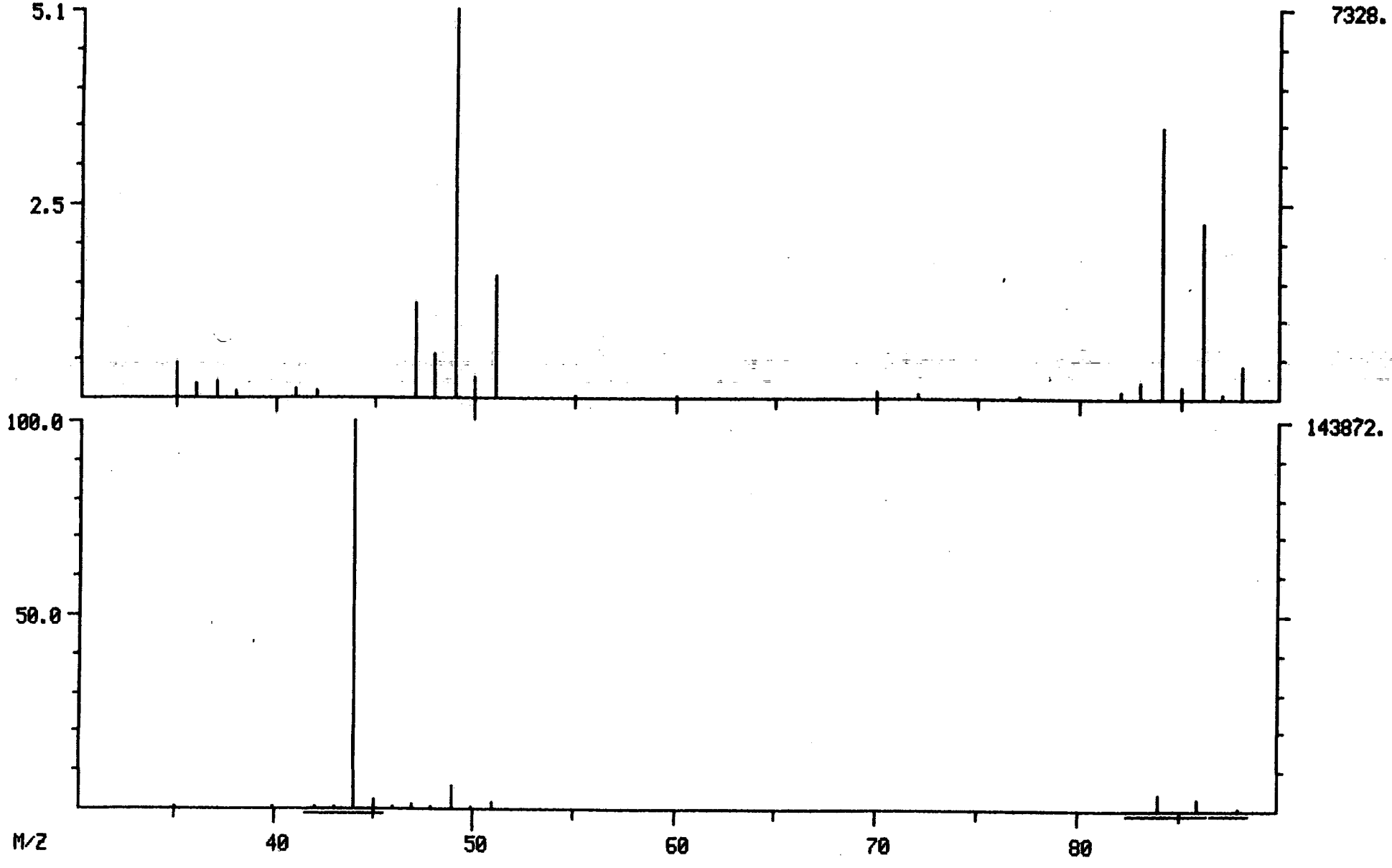
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	124	4:08	1	1.000	A BB	69498.	50.000 UG/L	14.94
2	65	195	6:30	1	1.573	A BB	216785.	43.760 UG/L	13.08
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	84	67	2:14	1	0.540	A BB	42942.	16.767 UG/L	5.01
9	43	80	2:40	1	0.645	A BB	24822.	20.981 UG/L	6.27 <10%
10	NOT FOUND								
11	76	99	3:18	1	0.798	A BB	19027.	3.200 UG/L	0.96 <10%
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	114	402	13:24	19	1.000	A BB	342606.	50.000 UG/L	14.94
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	43	249	8:18	19	0.619	A BB	852.	0.164 UG/L	0.05
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	NOT FOUND								
34	117	533	17:46	34	1.000	A BB	324446.	50.000 UG/L	14.94
35	98	503	16:46	34	0.944	A BB	379765.	49.563 UG/L	14.81
36	95	634	21:08	34	1.189	A BB	283310.	49.199 UG/L	14.70
37	NOT FOUND								
38	43	462	15:24	34	0.867	A BV	1028.	0.388 UG/L	0.12
39	NOT FOUND								
40	NOT FOUND								
41	92	508	16:56	34	0.953	A BB	736.	0.127 UG/L	0.04
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	106	686	22:52	34	1.287	A BB	1846.	0.519 UG/L	0.16
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								

JBD 1/3/90

DUAL MASS SPECTRUM
12/05/90 15:04:00 + 2:14
SAMPLE: 9011L775-004/LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
GC TEMP: 79 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120507 #67
CALI: Y120507 #2

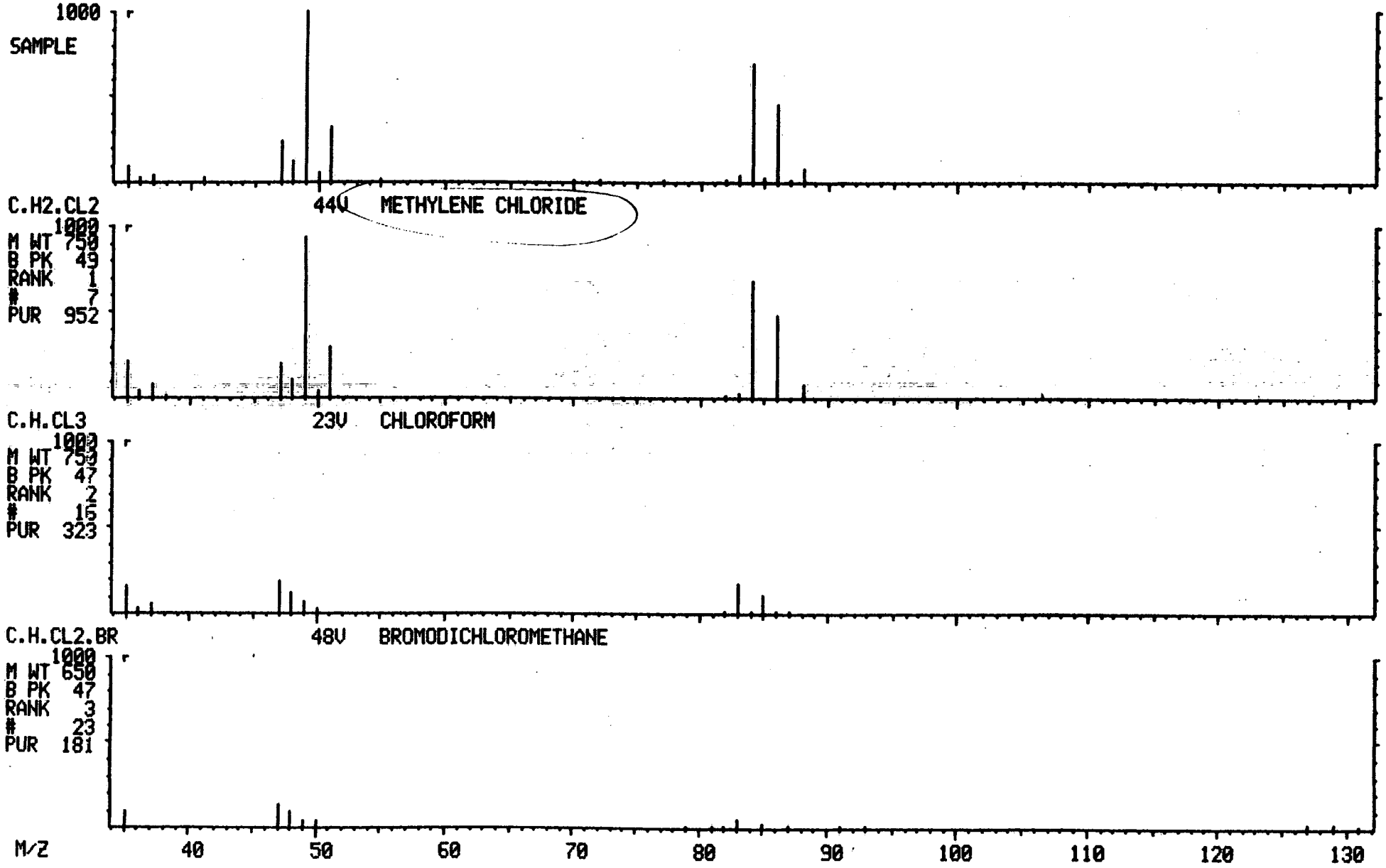
BASE M/Z: 49/ 44
RIC: 24447./ 180735.



LIBRARY SEARCH
12/05/90 15:04:00 + 2:14
SAMPLE: 9011L775-004/LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
ENHANCED (S 158 2N 0T)

DATA: Y120507 # 67
CALI: Y120507 # 2

BASE M/Z: 49
RIC: 24159.



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW5 076

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-005

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

Lab File ID: Y120508

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

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	21	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.

MW5

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-005

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

Lab File ID: Y120508

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

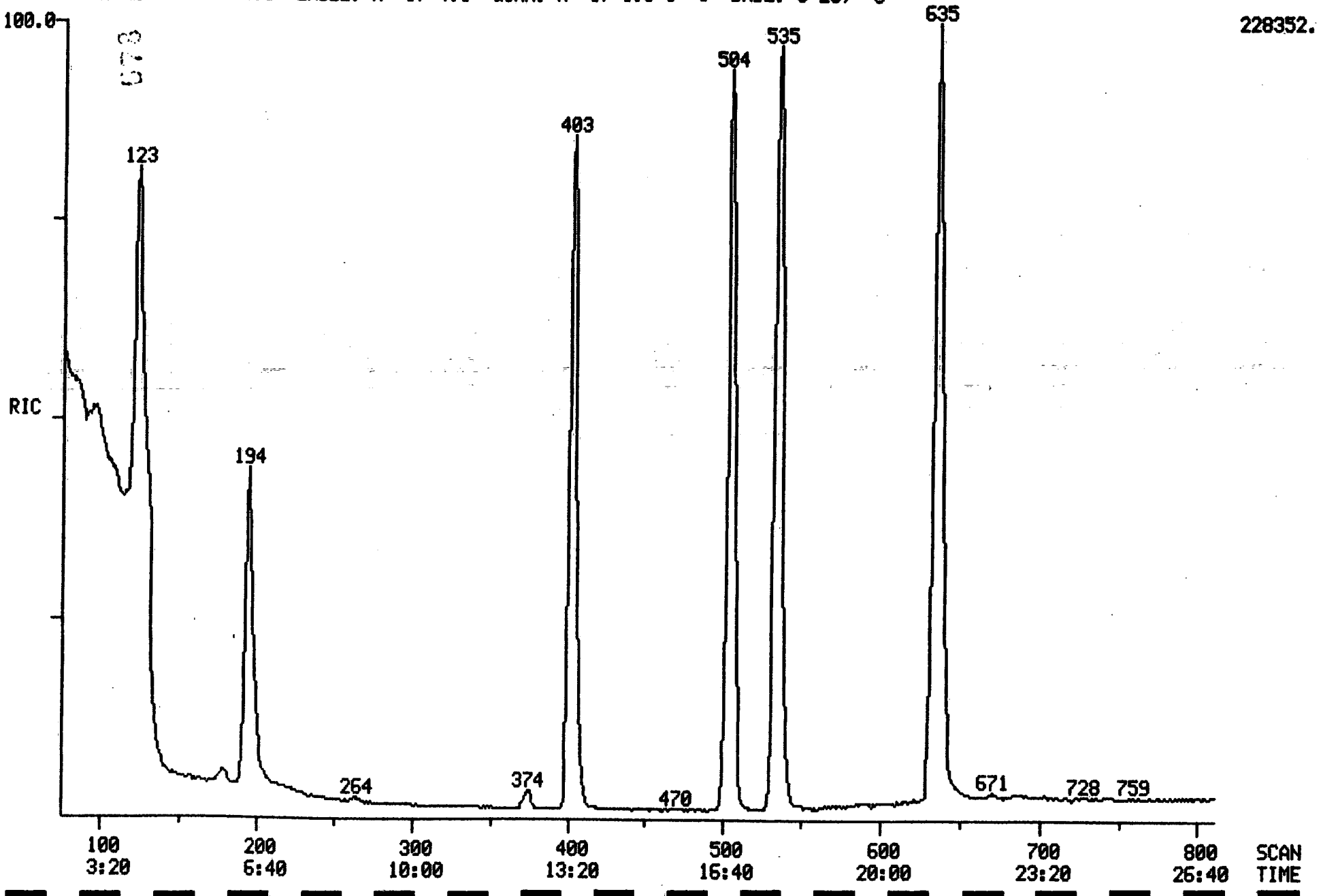
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

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

RIC
12/05/96 15:41:00
SAMPLE: 9011L775-005/WSI LE CARPENTER(MW5)/5.0 ML
CONDS.: VO/5100Y
RANGE: G 1, 810 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: Y120508 #1
CALI: Y120508 #2

SCANS 75 TO 810



Quantitation Report File: Y120508

Data: Y120508.TI
12/05/90 15:41:00
Sample: 9011L775-005/WSI LE CARPENTER(MW5)/5.0 ML
Conds.: VO/5100Y
Formula: Y120501 Instrument: 5100Y Weight: 0.002
Submitted by: Y120501 Analyst: JBD Acct. No.: 120590

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	
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5		ACETONITRILE	
6	88V	VINYL CHLORIDE	
7	16V	CHLOROETHANE	
8	44V	METHYLENE CHLORIDE	
9	13H	ACETONE	
10	21H	ACROLEIN	
11	15H	CARBON DISULFIDE	
12	24H	TRICHLOROFLUOROMETHANE	
13	22H	ACRYLONITRILE	
14	29V	1,1-DICHLOROETHYLENE	
15	13V	1,1-DICHLOROETHANE	
16		1,2-DICHLOROETHENE (TOTAL)	
17	23V	CHLOROFORM	
18	10V	1,2-DICHLOROETHANE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	14H	2-BUTANONE	
21	11V	1,1,1-TRICHLOROETHANE	
22	6V	CARBON TETRACHLORIDE	
23	19H	VINYL ACETATE	
24	48V	BROMODICHLOROMETHANE	
25	32V	1,2-DICHLOROPROPANE	
26		CIS-1,3-DICHLOROPROPENE	
27	87V	TRICHLOROETHYLENE	
28	51V	DIBROMOCHLOROMETHANE	
29	14V	1,1,2-TRICHLOROETHANE	
30	4V	BENZENE	
31		TRANS-1,3-DICHLOROPROPENE	
32	19V	2-CHLOROETHYLVINYLETHER	
33	47V	BROMOFORM	
34	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
35	SS2	TOLUENE D8	SURROGATE STANDARD #2
36	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
37	17H	4-METHYL-2-PENTANONE	
38	16H	2-HEXANONE	
39	85V	TETRACHLOROETHYLENE	
40	15V	1,1,2,2-TETRACHLOROETHANE	
41	86V	TOLUENE	
42	7V	CHLOROBENZENE	
43	38V	ETHYLBENZENE	
44	18H	STYRENE	
45		XYLENES (TOTAL)	
46	26B	1,3-DICHLOROBENZENE	
47	25B	1,2-DICHLOROBENZENE	

No	Name
48	27B 1,4-DICHLOROBENZENE

080

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	123	4:06	1	1.000	A BB	66463.	50.000 UG/L	14.83
2	65	194	6:28	1	1.577	A BB	229164.	48.372 UG/L	14.35
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	64	48	1:36	1	0.390	A BB	3153.	1.615 UG/L	0.48
8	84	66	2:12	1	0.537	A BB	50431.	20.590 UG/L	6.11
9	43	79	2:38	1	0.642	A BB	12631.	11.165 UG/L	3.31
10	NOT FOUND								
11	76	99	3:18	1	0.805	A BB	15586.	2.741 UG/L	0.81
12	101	108	3:36	1	0.878	A BB	924.	0.166 UG/L	0.05
13	NOT FOUND								
14	96	123	4:06	1	1.000	A BB	269.	0.133 UG/L	0.04
15	63	147	4:54	1	1.195	A BB	662.	0.121 UG/L	0.04
16	NOT FOUND								
17	NOT FOUND								
18	62	198	6:36	1	1.610	A BB	1290.	0.217 UG/L	0.06
19	114	403	13:26	19	1.000	A BB	341690.	50.000 UG/L	14.83
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	43	247	8:14	19	0.613	A*BB	1844.	0.355 UG/L	0.11
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	NOT FOUND								
34	117	534	17:48	34	1.000	A BB	316688.	50.000 UG/L	14.83
35	98	504	16:48	34	0.944	A BB	375516.	50.209 UG/L	14.89
36	95	635	21:10	34	1.189	A BB	285874.	50.860 UG/L	15.09
37	43	419	13:58	34	0.785	A BB	1000.	0.326 UG/L	0.10
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	106	686	22:52	34	1.285	A BB	948.	0.273 UG/L	0.08
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								

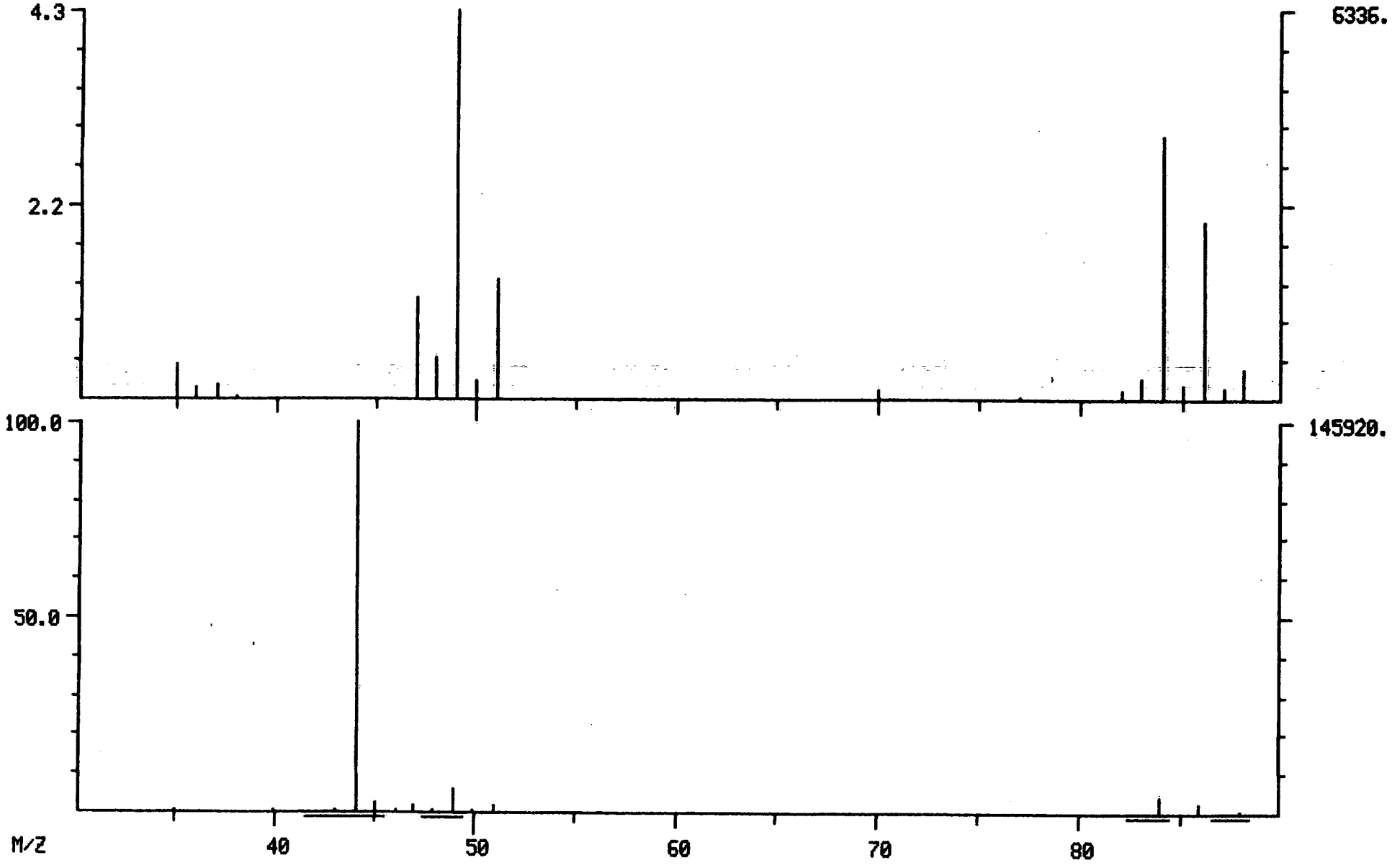
JSO 1/3/90

081

DUAL MASS SPECTRUM
12/05/90 15:41:00 + 2:12
SAMPLE: 9011L775-005/WSI LE CARPENTER(MW5)/5.0 ML
CONDS.: VO/5100Y
GC TEMP: 79 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120508 #66
CALI: Y120508 #2

BASE M/Z: 49/ 44
RIC: 20735./ 182015.

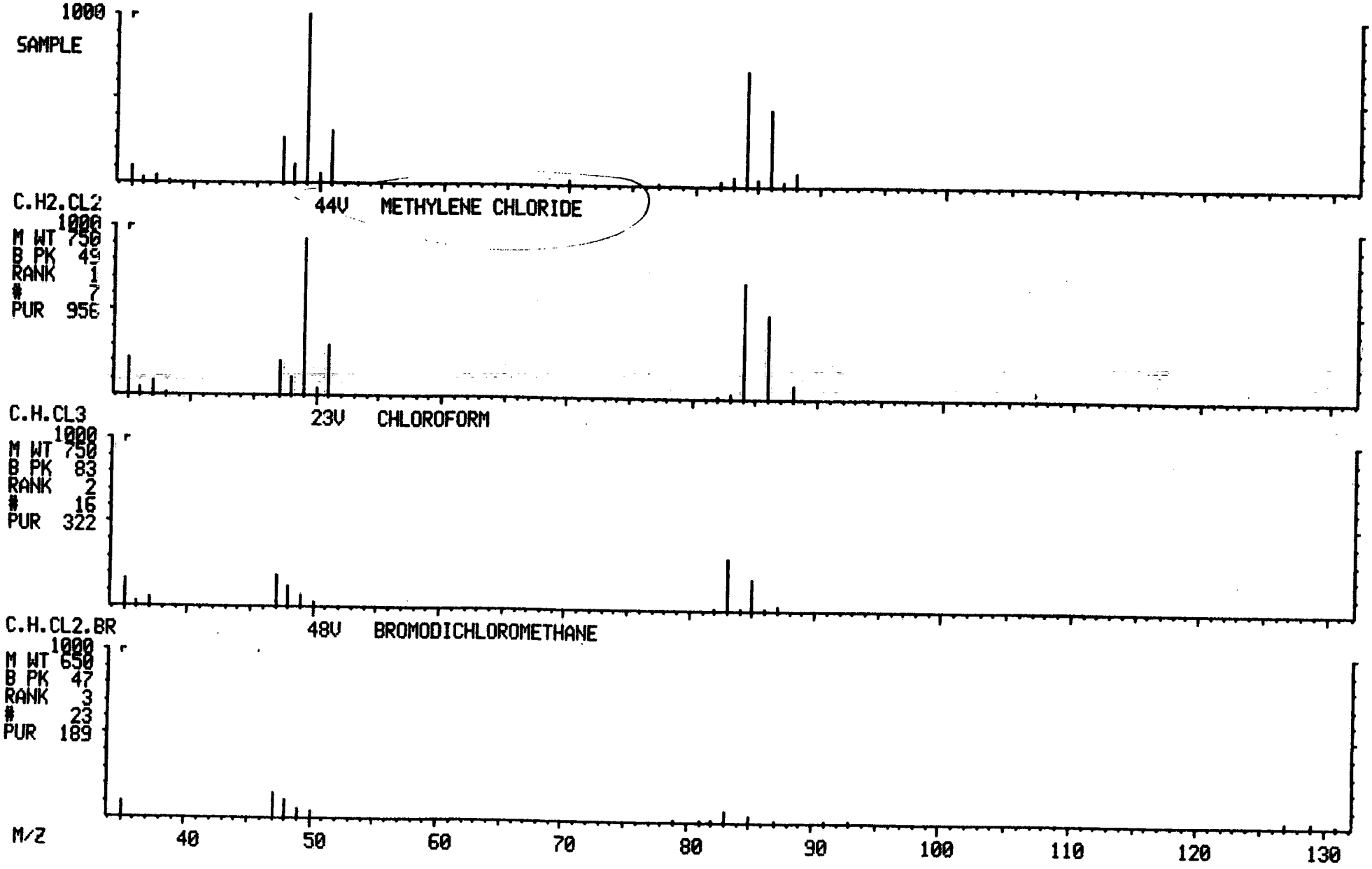


082

LIBRARY SEARCH
12/05/90 15:41:00 + 2:12
SAMPLE: 9011L775-005/WSI LE CARPENTER(MW5)/5.0 ML
CONDS.: VO/5100Y
ENHANCED (S 15B 2N 0T)

DATA: Y120508 # 66
CALI: Y120508 # 2

BASE M/Z: 49
RIC: 20735.



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.
083

FIELD BLANK

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-006

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

Lab File ID: Y120509

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

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	27	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.

FIELD BLANK 084

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-006

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

Lab File ID: Y120509

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. ____

Date Analyzed: 12/05/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

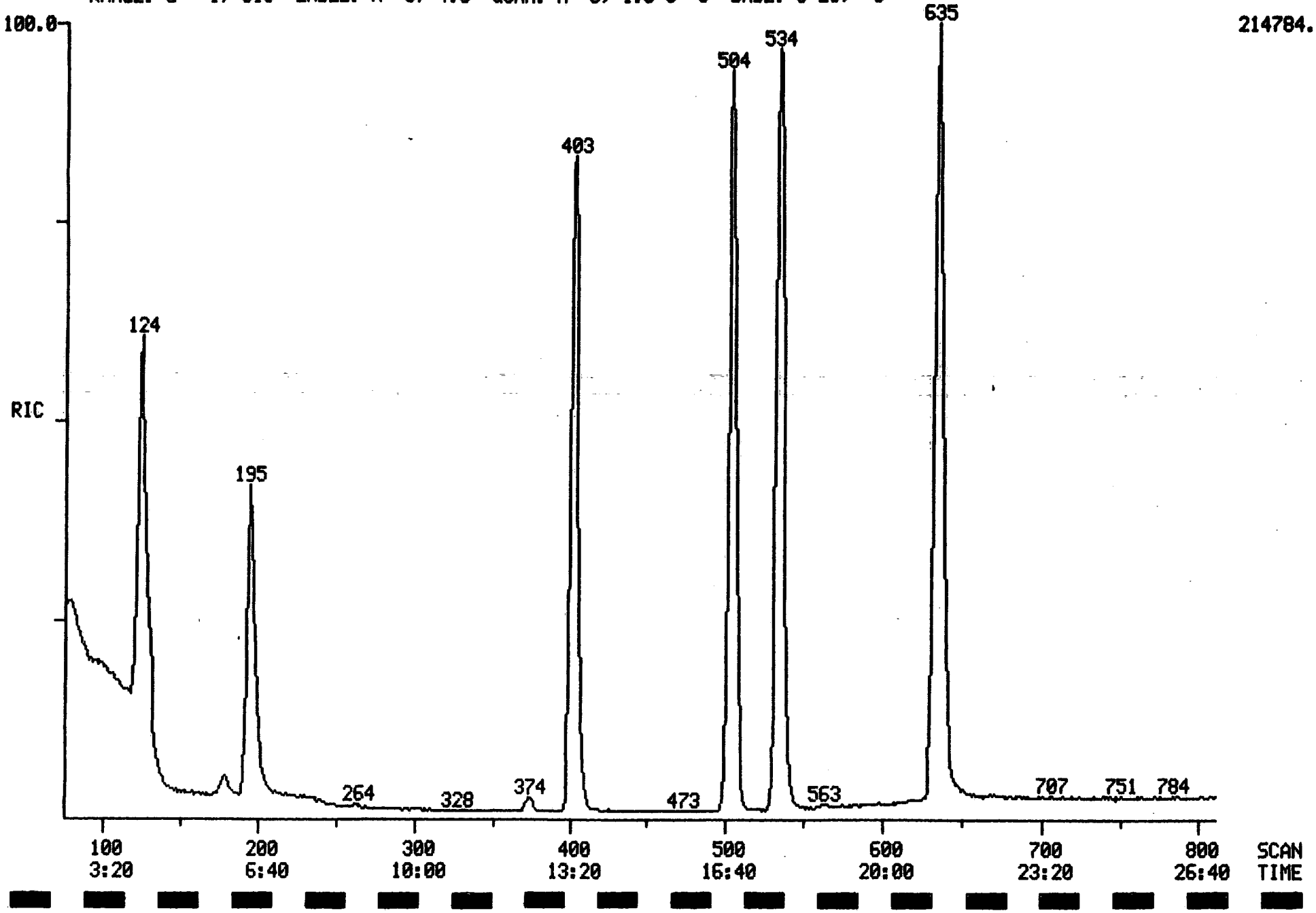
Number TICs found: 0

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

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

085 96

RIC DATA: Y120509 #1 SCANS 75 TO 810
12/05/90 16:20:00 CALI: Y120509 #2
SAMPLE: 9011L775-006/WSI LE CARPENTER(FIELD BLK)/5.0 ML
CONDS.: VO/5100Y
RANGE: G 1, 810 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: Y120509

Data: Y120509.TI
12/05/90 16:20:00
Sample: 9011L775-006/WSI LE CARPENTER(FIELD BLK)/5.0 ML
Conds.: VO/5100Y
Formula: Y120501 Instrument: 5100Y Weight: 0.002
Submitted by: Y120501 Analyst: JBD Acct. No.: 120590

086

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	
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5		ACETONITRILE	
6	88V	VINYL CHLORIDE	
7	16V	CHLOROETHANE	
8	44V	METHYLENE CHLORIDE	
9	13H	ACETONE	
10	21H	ACROLEIN	
11	15H	CARBON DISULFIDE	
12	24H	TRICHLOROFLUOROMETHANE	
13	22H	ACRYLONITRILE	
14	29V	1,1-DICHLOROETHYLENE	
15	13V	1,1-DICHLOROETHANE	
16		1,2-DICHLOROETHENE (TOTAL)	
17	23V	CHLOROFORM	
18	10V	1,2-DICHLOROETHANE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	14H	2-BUTANONE	
21	11V	1,1,1-TRICHLOROETHANE	
22	6V	CARBON TETRACHLORIDE	
23	19H	VINYL ACETATE	
24	48V	BROMODICHLOROMETHANE	
25	32V	1,2-DICHLOROPROPANE	
26		CIS-1,3-DICHLOROPROPENE	
27	87V	TRICHLOROETHYLENE	
28	51V	DIBROMOCHLOROMETHANE	
29	14V	1,1,2-TRICHLOROETHANE	
30	4V	BENZENE	
31		TRANS-1,3-DICHLOROPROPENE	
32	19V	2-CHLOROETHYLVINYLETHER	
33	47V	BROMOFORM	
34	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
35	SS2	TOLUENE D8	SURROGATE STANDARD #2
36	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
37	17H	4-METHYL-2-PENTANONE	
38	16H	2-HEXANONE	
39	85V	TETRACHLOROETHYLENE	
40	15V	1,1,2,2-TETRACHLOROETHANE	
41	86V	TOLUENE	
42	7V	CHLOROBENZENE	
43	38V	ETHYLBENZENE	
44	18H	STYRENE	
45		XYLENES (TOTAL)	
46	26B	1,3-DICHLOROBENZENE	
47	25B	1,2-DICHLOROBENZENE	

No	Name
48	27B 1,4-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	124	4:08	1	1.000	A BB	65460.	50.000 UG/L	14.54
2	65	195	6:30	1	1.573	A BB	212141.	45.465 UG/L	13.22
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	84	67	2:14	1	0.540	A BB	64973.	26.934 UG/L	7.83
9	43	79	2:38	1	0.637	A BB	20404.	18.311 UG/L	5.33 <10%
10	NOT FOUND								
11	76	100	3:20	1	0.806	A BB	13738.	2.453 UG/L	0.71 <10%
12	101	109	3:38	1	0.879	A BB	909.	0.166 UG/L	0.05
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	83	176	5:52	1	1.419	A BB	596.	0.089 UG/L	0.03
18	NOT FOUND								
19	114	402	13:24	19	1.000	A BB	311310.	50.000 UG/L	14.54
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	NOT FOUND								
34	117	534	17:48	34	1.000	A BB	294299.	50.000 UG/L	14.54
35	98	504	16:48	34	0.944	A BB	348462.	50.136 UG/L	14.58
36	95	635	21:10	34	1.189	A BB	259306.	49.643 UG/L	14.44
37	43	420	14:00	34	0.787	A BB	1494.	0.524 UG/L	0.15
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	92	509	16:58	34	0.953	A BB	585.	0.111 UG/L	0.03
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								

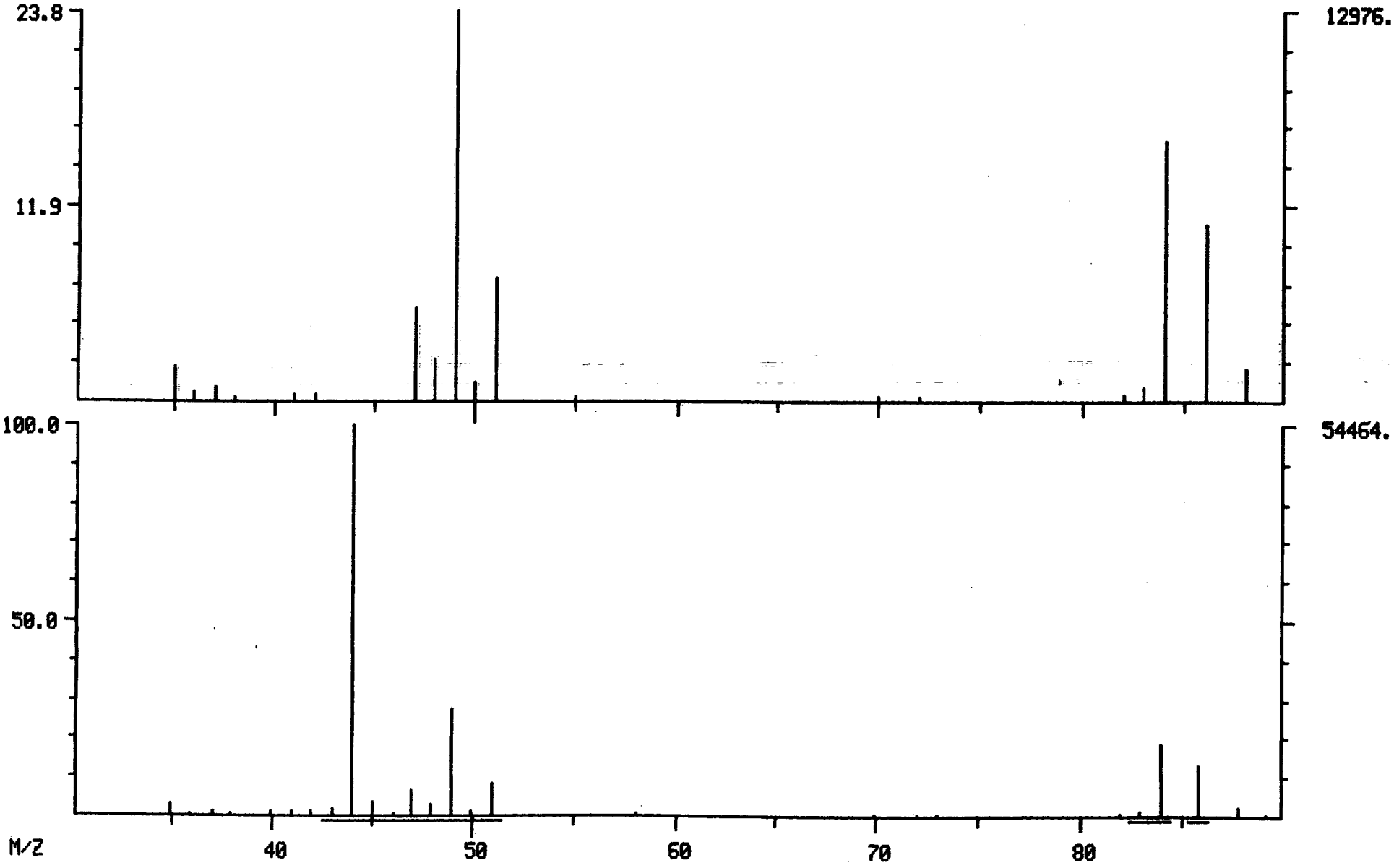
JB 08/03/90

080

DUAL MASS SPECTRUM
12/05/90 16:20:00 + 2:14
SAMPLE: 9011L775-006/WSI LE CARPENTER(FIELD BLK)/5.0 ML
CONDS.: VO/5100Y
GC TEMP: 79 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120509 #67
CALI: Y120509 #2

BASE M/Z: 49/ 44
RIC: 41407./ 107775.

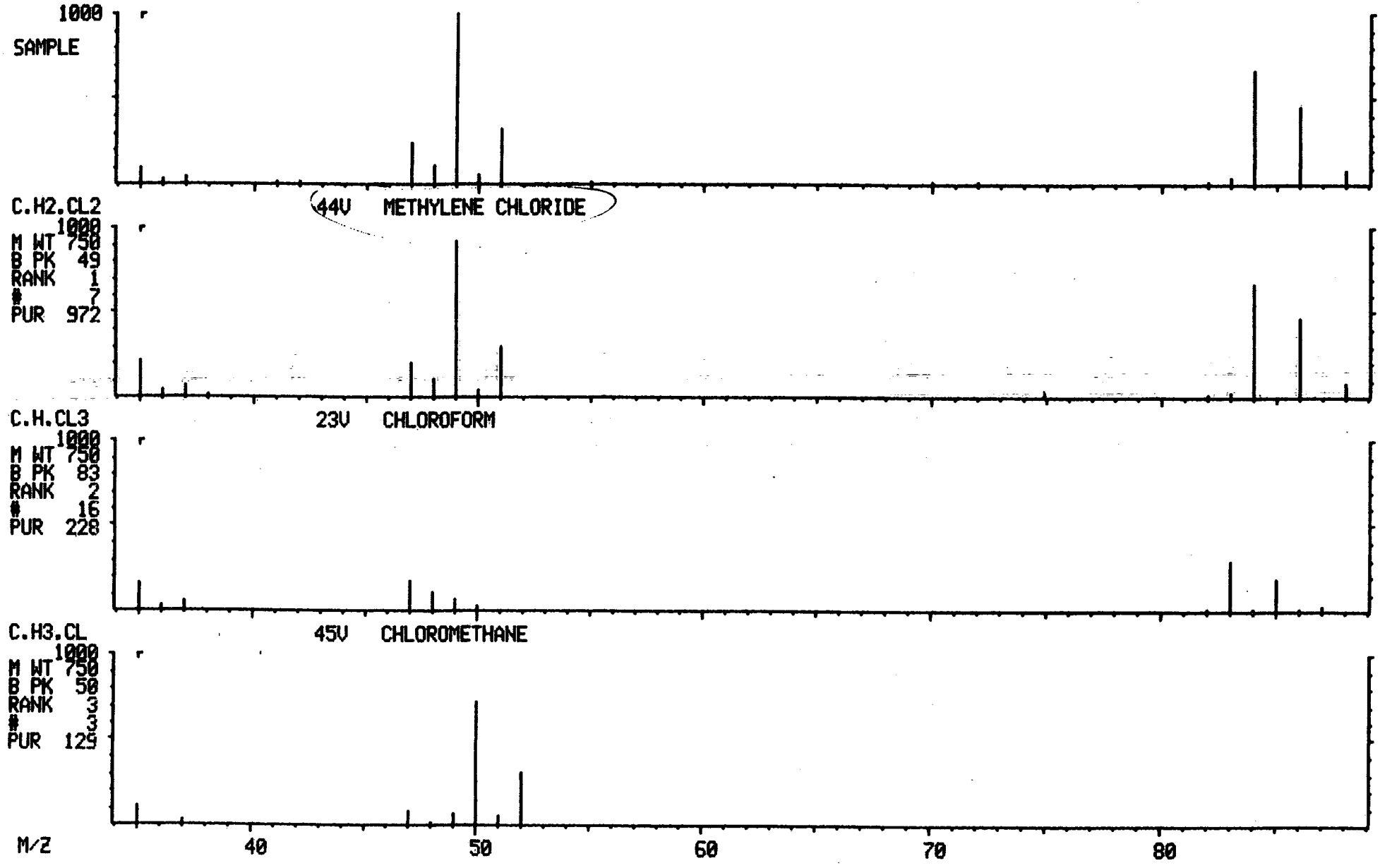


089

LIBRARY SEARCH
12/05/90 16:20:00 + 2:14
SAMPLE: 9011L775-006/WSI LE CARPENTER(FIELD BLK)/5.0 ML
CONDS.: VO/5100Y
ENHANCED (S 15B 2N 0T)

DATA: Y120509 # 67
CALI: Y120509 # 2

BASE M/Z: 49
RIC: 41279.



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TRIP BLANK 090

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-007

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

Lab File ID: Y120510

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

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	30	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.

TRIP BLANK 091

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-007

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

Lab File ID: Y120510

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

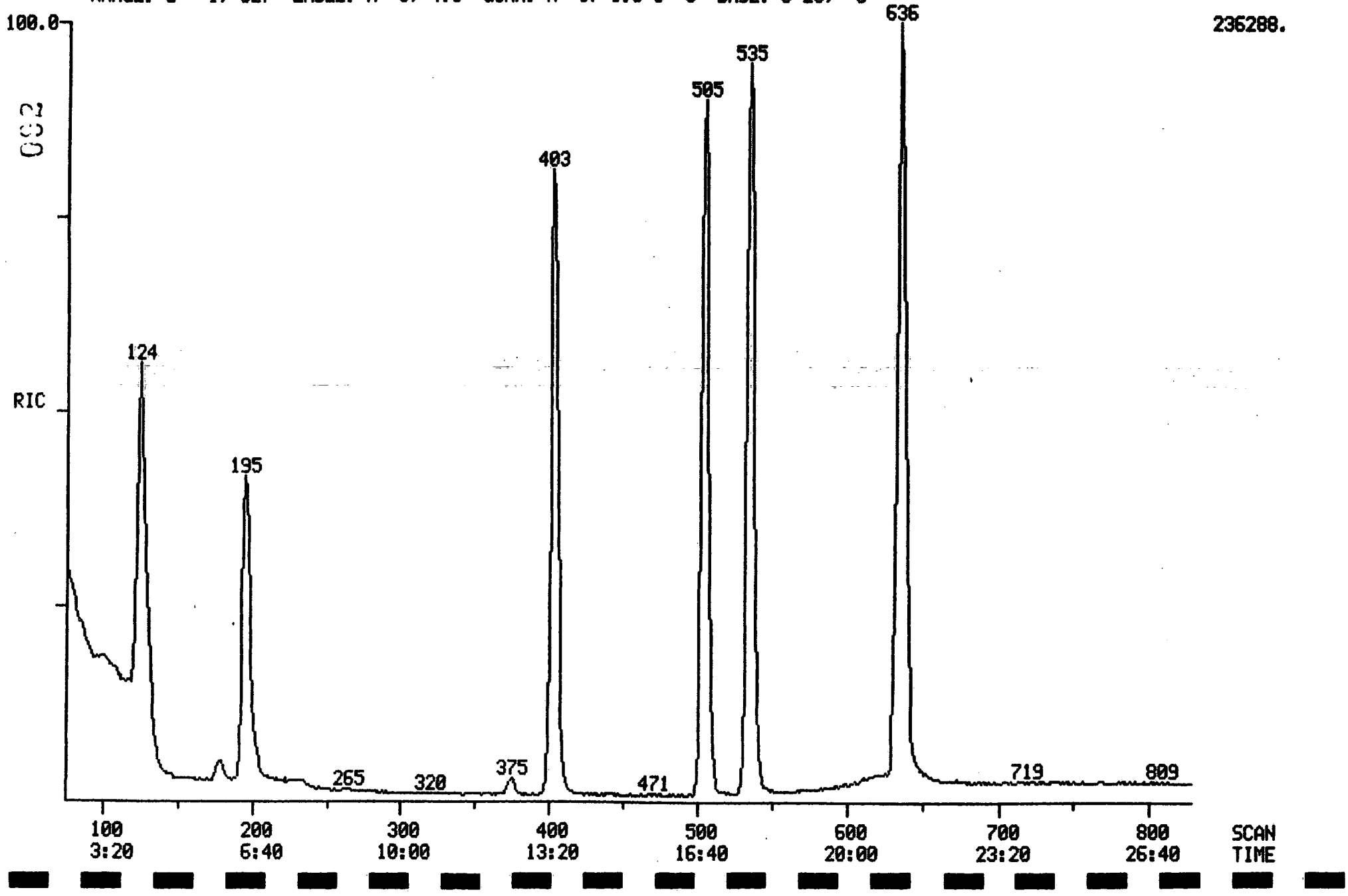
Number TICs found: 0

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

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

OK
No TICs

RIC DATA: Y120510 #1 SCANS 75 TO 827
12/05/96 16:54:00 CALI: Y120510 #2
SAMPLE: 9011L775-007/WSI LE CARPENTER(TRIP BLK)/5.0 ML
CONDS.: VO/5100Y
RANGE: G 1, 827 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: Y120510

Data: Y120510.TI
12/05/90 16:54:00
Sample: 9011L775-007/WSI LE CARPENTER(TRIP BLK)/5.0 ML
Conds.: VO/5100Y
Formula: Y120501 Instrument: 5100Y Weight: 0.002
Submitted by: Y120501 Analyst: JBD Acct. No.: 120590

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	
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5		ACETONITRILE	
6	88V	VINYL CHLORIDE	
7	16V	CHLOROETHANE	
8	44V	METHYLENE CHLORIDE	
9	13H	ACETONE	
10	21H	ACROLEIN	
11	15H	CARBON DISULFIDE	
12	24H	TRICHLOROFLUOROMETHANE	
13	22H	ACRYLONITRILE	
14	29V	1,1-DICHLOROETHYLENE	
15	13V	1,1-DICHLOROETHANE	
16		1,2-DICHLOROETHENE (TOTAL)	
17	23V	CHLOROFORM	
18	10V	1,2-DICHLOROETHANE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	14H	2-BUTANONE	
21	11V	1,1,1-TRICHLOROETHANE	
22	6V	CARBON TETRACHLORIDE	
23	19H	VINYL ACETATE	
24	48V	BROMODICHLOROMETHANE	
25	32V	1,2-DICHLOROPROPANE	
26		CIS-1,3-DICHLOROPROPENE	
27	87V	TRICHLOROETHYLENE	
28	51V	DIBROMOCHLOROMETHANE	
29	14V	1,1,2-TRICHLOROETHANE	
30	4V	BENZENE	
31		TRANS-1,3-DICHLOROPROPENE	
32	19V	2-CHLOROETHYLVINYLETHER	
33	47V	BROMOFORM	
34	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
35	SS2	TOLUENE D8	SURROGATE STANDARD #2
36	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
37	17H	4-METHYL-2-PENTANONE	
38	16H	2-HEXANONE	
39	85V	TETRACHLOROETHYLENE	
40	15V	1,1,2,2-TETRACHLOROETHANE	
41	86V	TOLUENE	
42	7V	CHLOROBENZENE	
43	38V	ETHYLBENZENE	
44	18H	STYRENE	
45		XYLENES (TOTAL)	
46	26B	1,3-DICHLOROBENZENE	
47	25B	1,2-DICHLOROBENZENE	

No	Name
48	27B 1,4-DICHLOROBENZENE

094

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	124	4:08	1	1.000	A BB	66518.	50.000 UG/L	14.29
2	65	195	6:30	1	1.573	A BB	232227.	48.978 UG/L	14.00
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	84	68	2:16	1	0.548	A BB	73627.	30.036 UG/L	8.59
9	43	80	2:40	1	0.645	A BB	17966.	15.866 UG/L	4.54 <10%
10	NOT FOUND								
11	76	102	3:24	1	0.823	A BB	13777.	2.421 UG/L	0.69 <10%
12	101	109	3:38	1	0.879	A*BB	1069.	0.192 UG/L	0.05
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	83	176	5:52	1	1.419	A BB	523.	0.077 UG/L	0.02
18	NOT FOUND								
19	114	403	13:26	19	1.000	A BB	330394.	50.000 UG/L	14.29
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	43	252	8:24	19	0.625	A BB	808.	0.161 UG/L	0.05
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	NOT FOUND								
34	117	535	17:50	34	1.000	A BB	313860.	50.000 UG/L	14.29
35	98	505	16:50	34	0.944	A BB	372724.	50.285 UG/L	14.38
36	95	636	21:12	34	1.189	A BB	285333.	51.221 UG/L	14.64
37	43	421	14:02	34	0.787	A BB	764.	0.251 UG/L	0.07
38	43	464	15:28	34	0.867	A VV	408.	0.159 UG/L	0.05
39	NOT FOUND								
40	NOT FOUND								
41	92	509	16:58	34	0.951	A BB	874.	0.155 UG/L	0.04
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								

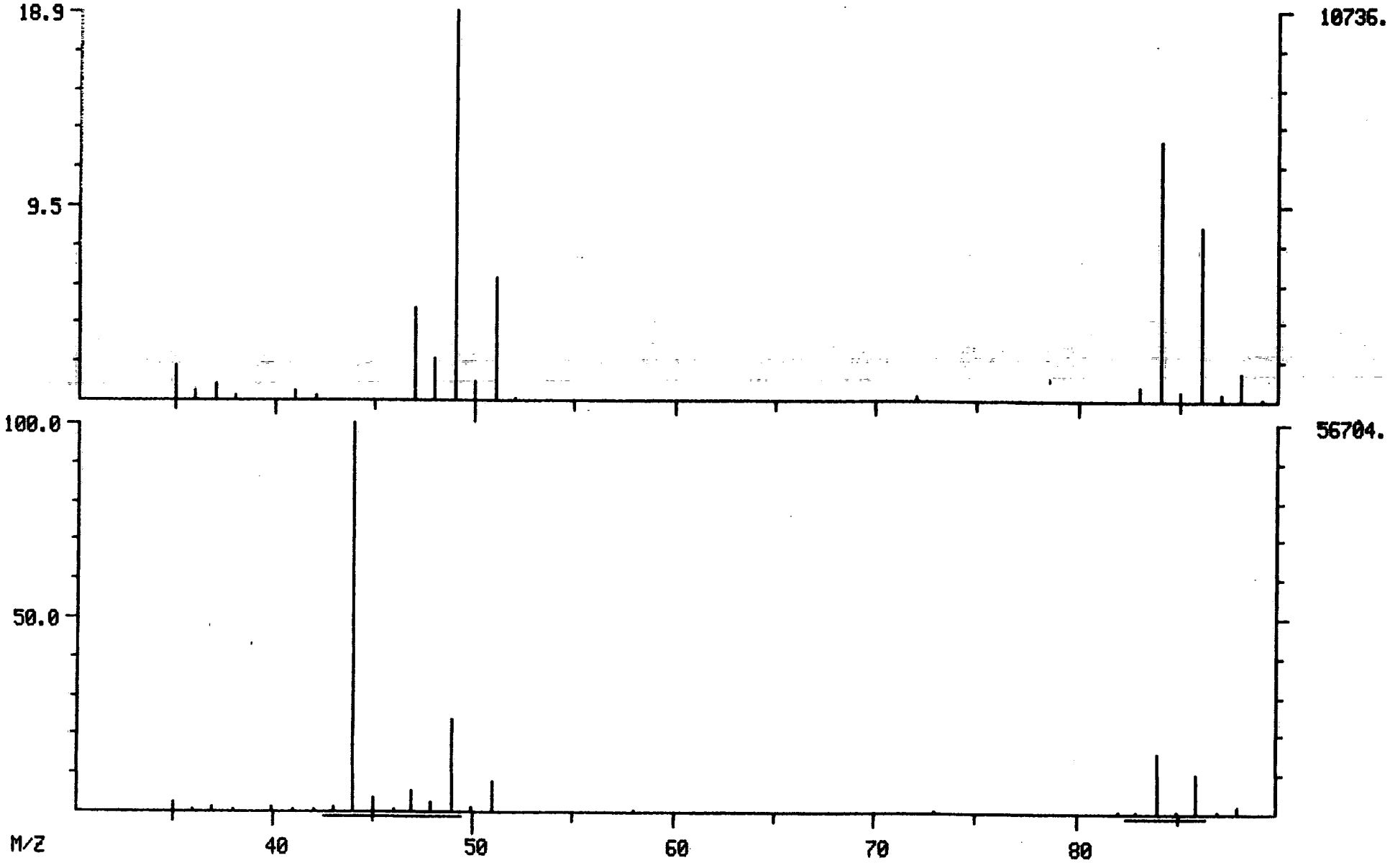
JBD 01/03/98

095

DUAL MASS SPECTRUM
12/05/90 16:54:00 + 2:16
SAMPLE: 9011L775-007/WSI LE CARPENTER(TRIP BLK)/5.0 ML
CONDS.: VO/5100Y
GC TEMP: 79 DEG. C
ENHANCED (5 15B 2N 0T)

DATA: Y120510 #68
CALI: Y120510 #2

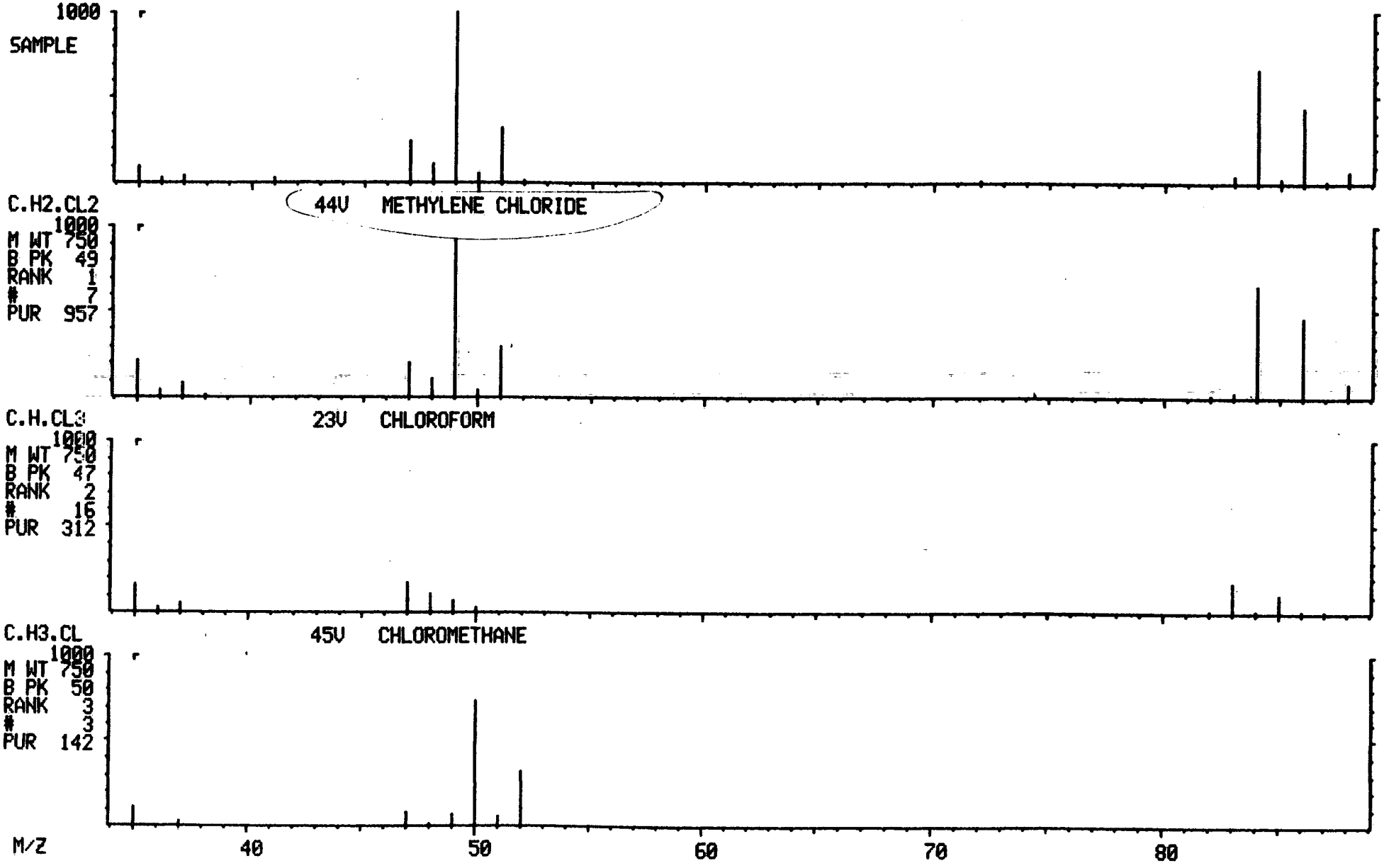
BASE M/Z: 49/ 44
RIC: 34303./ 104703.



LIBRARY SEARCH
12/05/90 16:54:00 + 2:16
SAMPLE: 9011L775-007/WSI LE CARPENTER(TRIP BLK)/5.0 ML
CONDS.: VO/5100Y
ENHANCED (S 15B 2N 0T)

DATA: Y120510 # 68
CALI: Y120510 # 2

BASE M/Z: 49
RIC: 33983.



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)

6A

VOLATILE ORGANICS INTITIAL CALIBRATION DATA

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

Case No.: WSI-LE CARPENTER RFW Lot: 9011L775

Instrument ID: 5100Y Calibration Date(s): 11/29/90 11/29/90

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

Min RRF for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF020= Y112902 RRF050= Y112903
RRF100= Y112904 RRF150= Y112905 RRF200= Y112906

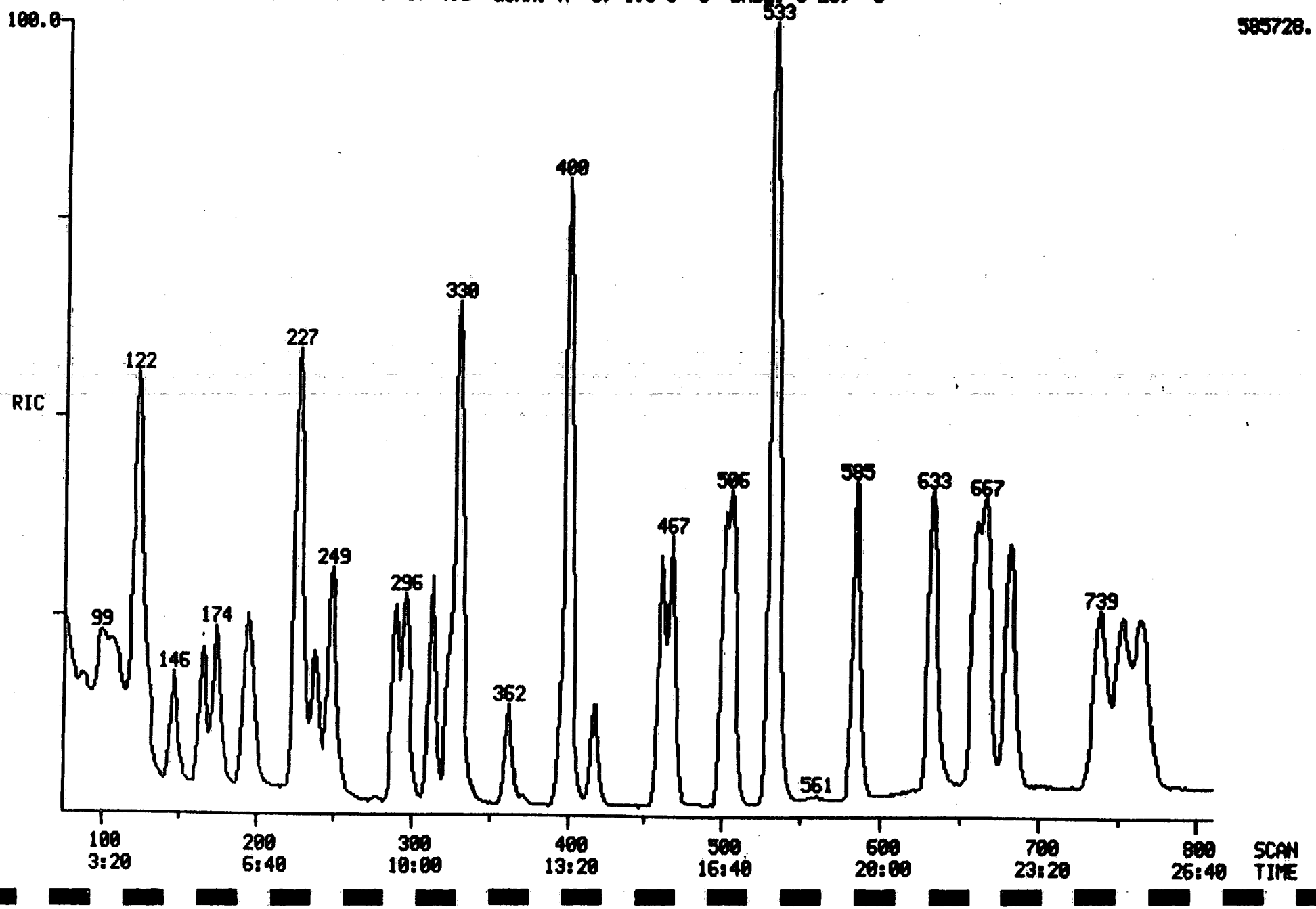
COMPOUND		RRF020	RRF050	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane	#	0.649	0.487	0.281	0.182	0.137	0.347	62.2#
Bromomethane		1.437	1.323	0.997	0.737	0.640	1.027	34.1
Vinyl Chloride	*	1.755	1.716	1.393	1.139	1.059	1.412	22.7*
Chloroethane		1.193	1.535	1.289	1.055	1.043	1.223	16.5
Methylene Chloride		4.464	3.396	2.278	1.872	1.906	2.783	40.4
1,1-Dichloroethene	*	1.446	1.432	1.403	1.588	1.650	1.504	7.2*
1,1-Dichloroethane	#	3.667	3.696	3.624	4.033	4.240	3.852	7.0#
1,2-Dichloroethene (total)		1.702	1.730	1.717	1.954	2.035	1.828	8.5
Chloroform	*	4.074	4.099	4.133	4.531	4.752	4.318	7.1*
1,2-Dichloroethane		3.004	3.025	3.071	3.228	3.395	3.145	5.3
1,1,1-Trichloroethane		0.603	0.661	0.635	0.578	0.577	0.611	6.0
Carbon Tetrachloride		0.430	0.488	0.485	0.494	0.501	0.480	5.9
Bromodichloromethane		0.721	0.744	0.726	0.744	0.745	0.736	1.6
1,2-Dichloropropane	*	0.479	0.488	0.477	0.469	0.477	0.478	1.4*
cis-1,3-Dichloropropene		0.673	0.689	0.699	0.686	0.669	0.683	1.8
Trichloroethene		0.437	0.434	0.430	0.435	0.439	0.435	0.8
Dibromochloromethane		0.489	0.524	0.532	0.533	0.554	0.526	4.5
1,1,2-Trichloroethane		0.367	0.371	0.368	0.358	0.365	0.366	1.3
Benzene		1.165	1.186	1.151	1.041	0.936	1.096	9.6
Trans-1,3-Dichloropropene		0.508	0.541	0.539	0.535	0.544	0.533	2.7
2-chloroethylvinylether		0.284	0.288	0.298	0.293	0.295	0.292	1.9
Bromoform	#	0.298	0.341	0.367	0.367	0.391	0.353	10.0#
Tetrachloroethene		0.412	0.417	0.410	0.397	0.400	0.407	2.1
1,1,2,2-Tetrachloroethane	#	0.699	0.713	0.724	0.674	0.704	0.703	2.7#
Toluene	*	0.857	0.858	0.855	0.817	0.800	0.837	3.2*
Chlorobenzene	#	0.998	1.000	0.992	0.947	0.902	0.968	4.4#
Ethylbenzene	*	0.489	0.501	0.499	0.483	0.486	0.492	1.6*
1,2-Dichlorobenzene		0.777	0.778	0.794	0.804	0.822	0.795	2.4
1,3-Dichlorobenzene		0.848	0.808	0.856	0.813	0.825	0.830	2.6
1,4-Dichlorobenzene		0.839	0.805	0.841	0.738	0.750	0.795	6.1
Acrolein		0.198	0.202	0.194	0.178	0.188	0.192	4.9
Acrylonitrile		0.527	0.569	0.562	0.579	0.613	0.570	5.4
Trichlorofluoromethane		3.015	3.013	2.867	3.120	3.300	3.063	5.2
Xylene (total)		0.538	0.556	0.539	0.530	0.538	0.540	1.8
Toluene-d8		1.195	1.245	1.175	1.064	0.986	1.133	9.3
Bromofluorobenzene		0.857	0.876	0.820	0.801	0.810	0.833	3.9
1,2-Dichloroethane-d4		2.624	2.645	2.555	2.744	2.925	2.699	5.3

060

RIC
11/29/90 12:11:00
SAMPLE: VSTD020/STD 20PPB
CONDS.: VO/5100Y
RANGE: G 1, 810 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: Y112902 #1
CALI: Y112902 #2

SCANS 75 TO 810



Quantitation Report File: Y112902

Data: Y112902.TI
11/29/90 12:11:00
Sample: VSTD020/STD 20PPB
Conds.: VO/5100Y
Formula: Y112901 Instrument: 5100Y Weight: 0.003
Submitted by: Y112901 Analyst: KAB Acct. No.: 112990

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	
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		CIS-1,3-DICHLOROPROPENE	
26	87V	TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30		TRANS-1,3-DICHLOROPROPENE	
31	19V	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	ACETONITRILE

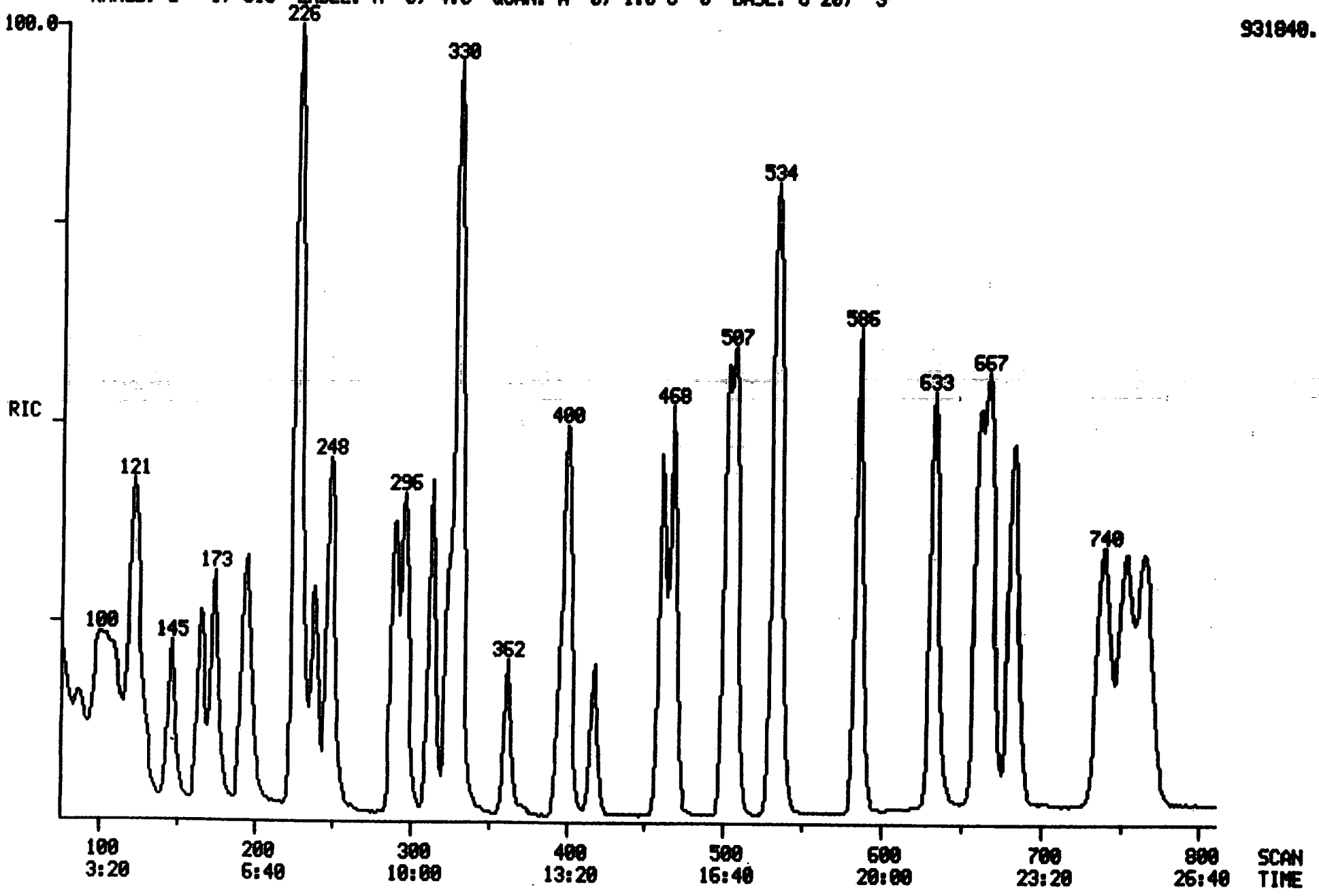
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	122	4:04	1	1.000	A BB	157287.	50.000 UG/L	4.76
2	65	193	6:26	1	1.582	A BB	165097.	20.000 UG/L	1.90
3	50	26	0:52	1	0.213	A BB	40862.	20.000 UG/L	1.90
4	94	34	1:08	1	0.279	A BB	90416.	20.000 UG/L	1.90
5	62	42	1:24	1	0.344	A BB	110415.	20.000 UG/L	1.90
6	64	47	1:34	1	0.385	A VB	75064.	20.000 UG/L	1.90
7	84	66	2:12	1	0.541	A BB	280862.	20.000 UG/L	1.90
8	43	77	2:34	1	0.631	A BB	91449.	20.000 UG/L	1.90
9	56	79	2:38	1	0.648	A BB	12474.	20.000 UG/L	1.90
10	76	99	3:18	1	0.811	A BB	323069.	20.000 UG/L	1.90
11	101	108	3:36	1	0.885	A BB	189705.	20.000 UG/L	1.90
12	53	88	2:56	1	0.721	A VB	33143.	20.000 UG/L	1.90
13	96	120	4:00	1	0.984	A BB	91002.	20.000 UG/L	1.90
14	63	146	4:52	1	1.197	A BB	230731.	20.000 UG/L	1.90
15	96	165	5:30	1	1.352	A BB	107064.	20.000 UG/L	1.90
16	83	174	5:48	1	1.426	A BB	256305.	20.000 UG/L	1.90
17	62	196	6:32	1	1.607	A BB	188995.	20.000 UG/L	1.90
18	114	400	13:20	18	1.000	A BB	866654.	50.000 UG/L	4.76
19	72	199	6:38	18	0.497	A VB	18788.	20.000 UG/L	1.90
20	97	228	7:36	18	0.570	A BB	209062.	20.000 UG/L	1.90
21	117	238	7:56	18	0.595	A VB	149056.	20.000 UG/L	1.90
22	43	247	8:14	18	0.618	A BB	249553.	20.000 UG/L	1.90
23	83	249	8:18	18	0.623	A BB	249927.	20.000 UG/L	1.90
24	63	290	9:40	18	0.725	A BB	166074.	20.000 UG/L	1.90
25	75	296	9:52	18	0.740	A BB	279763.	24.000 UG/L	2.29
26	130	313	10:26	18	0.782	A BB	151559.	20.000 UG/L	1.90
27	129	324	10:48	18	0.810	A BB	169582.	20.000 UG/L	1.90
28	97	329	10:58	18	0.823	A BB	127164.	20.000 UG/L	1.90
29	78	330	11:00	18	0.825	A BB	403991.	20.000 UG/L	1.90
30	75	332	11:04	18	0.830	A BB	140962.	16.000 UG/L	1.52
31	63	362	12:04	18	0.905	A BB	98510.	20.000 UG/L	1.90
32	173	397	13:14	18	0.992	A BB	103459.	20.000 UG/L	1.90
33	117	532	17:44	33	1.000	A BB	789379.	50.000 UG/L	4.76
34	98	502	16:44	33	0.944	A BB	377406.	20.000 UG/L	1.90
35	95	633	21:06	33	1.190	A BB	270652.	20.000 UG/L	1.90
36	43	418	13:56	33	0.786	A BB	157316.	20.000 UG/L	1.90
37	43	461	15:22	33	0.867	A BB	135756.	20.000 UG/L	1.90
38	164	467	15:34	33	0.878	A BB	130090.	20.000 UG/L	1.90
39	83	461	15:22	33	0.867	A BB	220768.	20.000 UG/L	1.90
40	92	507	16:54	33	0.953	A BB	270641.	20.000 UG/L	1.90
41	112	535	17:50	33	1.006	A BB	315057.	20.000 UG/L	1.90
42	106	585	19:30	33	1.100	A BB	154246.	20.000 UG/L	1.90
43	104	661	22:02	33	1.242	A BB	321622.	20.000 UG/L	1.90
44	106	682	22:44	33	1.282	A BB	169991.	20.000 UG/L	1.90
45	146	739	24:38	33	1.389	A BV	267610.	20.000 UG/L	1.90
46	146	753	25:06	33	1.415	A VV	245392.	20.000 UG/L	1.90
47	146	764	25:28	33	1.436	A VB	264852.	20.000 UG/L	1.90
48	41	41	1:22	1	0.336	A BB	9274.	20.000 UG/L	1.90

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:04	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	6:26	1.00	1.582	1.00	20.00	20.00	2.624	2.624	1.00
3	0:52	1.00	0.213	1.00	20.00	20.00	0.649	0.649	1.00
4	1:08	1.00	0.279	1.00	20.00	20.00	1.437	1.437	1.00
5	1:24	1.00	0.344	1.00	20.00	20.00	1.755	1.755	1.00
6	1:34	1.00	0.385	1.00	20.00	20.00	1.193	1.193	1.00
7	2:12	1.00	0.541	1.00	20.00	20.00	4.464	4.464	1.00
8	2:34	1.00	0.631	1.00	20.00	20.00	1.454	1.454	1.00
9	2:38	1.00	0.648	1.00	20.00	20.00	0.198	0.198	1.00
10	3:18	1.00	0.811	1.00	20.00	20.00	5.135	5.135	1.00
11	3:36	1.00	0.885	1.00	20.00	20.00	3.015	3.015	1.00
12	2:56	1.00	0.721	1.00	20.00	20.00	0.527	0.527	1.00
13	4:00	1.00	0.984	1.00	20.00	20.00	1.446	1.446	1.00
14	4:52	1.00	1.197	1.00	20.00	20.00	3.667	3.667	1.00
15	5:30	1.00	1.352	1.00	20.00	20.00	1.702	1.702	1.00
16	5:48	1.00	1.426	1.00	20.00	20.00	4.074	4.074	1.00
17	6:32	1.00	1.607	1.00	20.00	20.00	3.004	3.004	1.00
18	13:20	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	6:38	1.00	0.497	1.00	20.00	20.00	0.054	0.054	1.00
20	7:36	1.00	0.570	1.00	20.00	20.00	0.603	0.603	1.00
21	7:56	1.00	0.595	1.00	20.00	20.00	0.430	0.430	1.00
22	8:14	1.00	0.618	1.00	20.00	20.00	0.720	0.720	1.00
23	8:18	1.00	0.623	1.00	20.00	20.00	0.721	0.721	1.00
24	9:40	1.00	0.725	1.00	20.00	20.00	0.479	0.479	1.00
25	9:52	1.00	0.740	1.00	24.00	24.00	0.673	0.673	1.00
26	10:26	1.00	0.782	1.00	20.00	20.00	0.437	0.437	1.00
27	10:48	1.00	0.810	1.00	20.00	20.00	0.489	0.489	1.00
28	10:58	1.00	0.822	1.00	20.00	20.00	0.367	0.367	1.00
29	11:00	1.00	0.825	1.00	20.00	20.00	1.165	1.165	1.00
30	11:04	1.00	0.830	1.00	16.00	16.00	0.508	0.508	1.00
31	12:04	1.00	0.905	1.00	20.00	20.00	0.284	0.284	1.00
32	13:14	1.00	0.992	1.00	20.00	20.00	0.298	0.298	1.00
33	17:44	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	16:44	1.00	0.944	1.00	20.00	20.00	1.195	1.195	1.00
35	21:06	1.00	1.190	1.00	20.00	20.00	0.857	0.857	1.00
36	13:56	1.00	0.786	1.00	20.00	20.00	0.498	0.498	1.00
37	15:22	1.00	0.867	1.00	20.00	20.00	0.430	0.430	1.00
38	15:34	1.00	0.878	1.00	20.00	20.00	0.412	0.412	1.00
39	15:22	1.00	0.867	1.00	20.00	20.00	0.699	0.699	1.00
40	16:54	1.00	0.953	1.00	20.00	20.00	0.857	0.857	1.00
41	17:50	1.00	1.006	1.00	20.00	20.00	0.998	0.998	1.00
42	19:30	1.00	1.100	1.00	20.00	20.00	0.489	0.489	1.00
43	22:02	1.00	1.242	1.00	20.00	20.00	1.019	1.019	1.00
44	22:44	1.00	1.282	1.00	20.00	20.00	0.538	0.538	1.00
45	24:38	1.00	1.389	1.00	20.00	20.00	0.848	0.848	1.00
46	25:06	1.00	1.415	1.00	20.00	20.00	0.777	0.777	1.00
47	25:28	1.00	1.436	1.00	20.00	20.00	0.839	0.839	1.00
48	1:22	1.00	0.336	1.00	20.00	20.00	0.147	0.147	1.00

RIC
11/29/90 12:44:00
SAMPLE: VSTD050/STD 50PPB
CONDS.: VO/5100Y
RANGE: G 1, 810 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: Y112903 #1
CALI: Y112903 #2

SCANS 75 TO 810



Quantitation Report File: Y112903

104

Data: Y112903.TI
11/29/90 12:44:00
Sample: VSTD050/STD 50PPB
Conds.: VO/5100Y
Formula: Y112901 Instrument: 5100Y Weight: 0.003
Submitted by: Y112901 Analyst: KAB Acct. No.: 112990

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	
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		CIS-1,3-DICHLOROPROPENE	
26	87V	TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30		TRANS-1,3-DICHLOROPROPENE	
31	19V	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	ACETONITRILE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	121	4:02	1	1.000	A BB	144007.	50.000 UG/L	2.08
2	65	192	6:24	1	1.587	A BB	380885.	50.000 UG/L	2.08
3	50	26	0:52	1	0.215	A BV	70134.	50.000 UG/L	2.08
4	94	35	1:10	1	0.289	A BB	190553.	50.000 UG/L	2.08
5	62	42	1:24	1	0.347	A BB	247179.	50.000 UG/L	2.08
6	64	47	1:34	1	0.388	A BB	221092.	50.000 UG/L	2.08
7	84	65	2:10	1	0.537	A BB	489016.	50.000 UG/L	2.08
8	43	76	2:32	1	0.628	A BB	115029.	50.000 UG/L	2.08
9	56	78	2:36	1	0.645	A BB	29051.	50.000 UG/L	2.08
10	76	99	3:18	1	0.818	A BB	730145.	50.000 UG/L	2.08
11	101	108	3:36	1	0.893	A BB	433822.	50.000 UG/L	2.08
12	53	86	2:52	1	0.711	A BB	81975.	50.000 UG/L	2.08
13	96	119	3:58	1	0.983	A BB	206223.	50.000 UG/L	2.08
14	63	145	4:50	1	1.198	A BB	532199.	50.000 UG/L	2.08
15	96	164	5:28	1	1.355	A BB	249179.	50.000 UG/L	2.08
16	83	173	5:46	1	1.430	A BB	590284.	50.000 UG/L	2.08
17	62	195	6:30	1	1.612	A BB	435597.	50.000 UG/L	2.08
18	114	401	13:22	18	1.000	A BB	818039.	50.000 UG/L	2.08
19	72	197	6:34	18	0.491	A BB	32188.	50.000 UG/L	2.08
20	97	228	7:36	18	0.569	A BB	540677.	50.000 UG/L	2.08
21	117	238	7:56	18	0.594	A VB	399339.	50.000 UG/L	2.08
22	43	247	8:14	18	0.616	A BB	627658.	50.000 UG/L	2.08
23	83	249	8:18	18	0.621	A BB	608955.	50.000 UG/L	2.08
24	63	289	9:38	18	0.721	A BB	399206.	50.000 UG/L	2.08
25	75	296	9:52	18	0.738	A BB	676581.	60.000 UG/L	2.50
26	130	313	10:26	18	0.781	A BB	354719.	50.000 UG/L	2.08
27	129	324	10:48	18	0.808	A BB	428469.	50.000 UG/L	2.08
28	97	329	10:58	18	0.820	A BB	303362.	50.000 UG/L	2.08
29	78	330	11:00	18	0.823	A BB	970056.	50.000 UG/L	2.08
30	75	331	11:02	18	0.825	A BB	353923.	40.000 UG/L	1.67
31	63	362	12:04	18	0.903	A BB	235225.	50.000 UG/L	2.08
32	173	396	13:12	18	0.988	A BB	279031.	50.000 UG/L	2.08
33	117	532	17:44	33	1.000	A BB	753088.	50.000 UG/L	2.08
34	98	502	16:44	33	0.944	A BB	937501.	50.000 UG/L	2.08
35	95	633	21:06	33	1.190	A BB	659434.	50.000 UG/L	2.08
36	43	418	13:56	33	0.786	A BB	367639.	50.000 UG/L	2.08
37	43	461	15:22	33	0.867	A BB	260564.	50.000 UG/L	2.08
38	164	468	15:36	33	0.880	A BB	313962.	50.000 UG/L	2.08
39	83	461	15:22	33	0.867	A BB	536707.	50.000 UG/L	2.08
40	92	507	16:54	33	0.953	A BB	646190.	50.000 UG/L	2.08
41	112	535	17:50	33	1.006	A BB	753199.	50.000 UG/L	2.08
42	106	586	19:32	33	1.102	A BB	377331.	50.000 UG/L	2.08
43	104	661	22:02	33	1.242	A BB	782659.	50.000 UG/L	2.08
44	106	683	22:46	33	1.284	A BB	418489.	50.000 UG/L	2.08
45	146	740	24:40	33	1.391	A BV	608168.	50.000 UG/L	2.08
46	146	753	25:06	33	1.415	A VV	605952.	50.000 UG/L	2.08
47	146	765	25:30	33	1.438	A VB	585744.	50.000 UG/L	2.08
48	41	40	1:20	1	0.331	A BB	20730.	50.000 UG/L	2.08

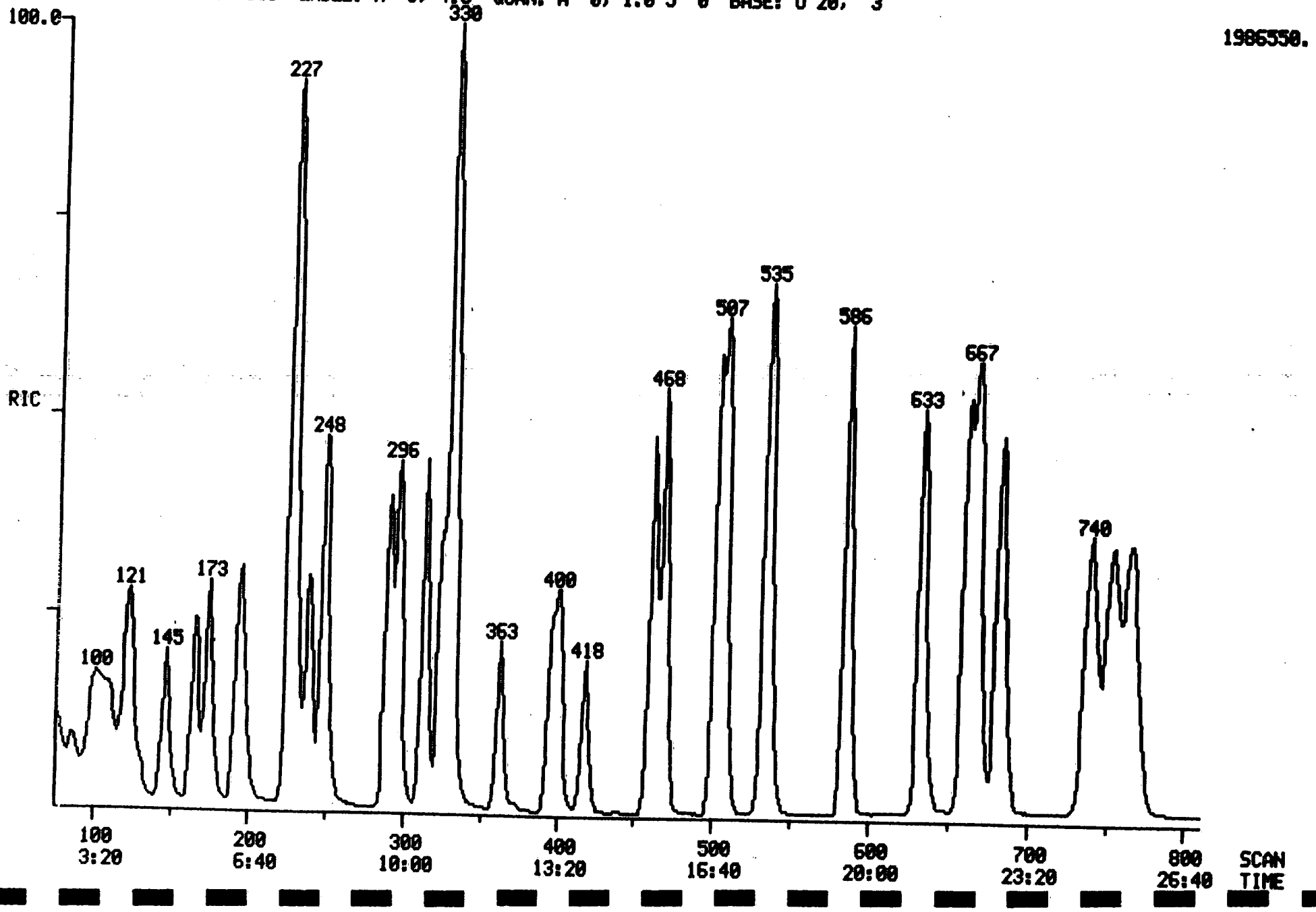
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	4:02	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	6:24	1.00	1.587	1.00	50.00	50.00	2.645	2.645	1.00
3	0:52	1.00	0.215	1.00	50.00	50.00	0.487	0.487	1.00
4	1:10	1.00	0.289	1.00	50.00	50.00	1.323	1.323	1.00
5	1:24	1.00	0.347	1.00	50.00	50.00	1.716	1.716	1.00
6	1:34	1.00	0.388	1.00	50.00	50.00	1.535	1.535	1.00
7	2:10	1.00	0.537	1.00	50.00	50.00	3.396	3.396	1.00
8	2:32	1.00	0.628	1.00	50.00	50.00	0.799	0.799	1.00
9	2:36	1.00	0.645	1.00	50.00	50.00	0.202	0.202	1.00
10	3:18	1.00	0.818	1.00	50.00	50.00	5.070	5.070	1.00
11	3:36	1.00	0.893	1.00	50.00	50.00	3.013	3.013	1.00
12	2:52	1.00	0.711	1.00	50.00	50.00	0.569	0.569	1.00
13	3:58	1.00	0.983	1.00	50.00	50.00	1.432	1.432	1.00
14	4:50	1.00	1.198	1.00	50.00	50.00	3.696	3.696	1.00
15	5:28	1.00	1.355	1.00	50.00	50.00	1.730	1.730	1.00
16	5:46	1.00	1.430	1.00	50.00	50.00	4.099	4.099	1.00
17	6:30	1.00	1.612	1.00	50.00	50.00	3.025	3.025	1.00
18	13:22	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	6:34	1.00	0.491	1.00	50.00	50.00	0.039	0.039	1.00
20	7:36	1.00	0.569	1.00	50.00	50.00	0.661	0.661	1.00
21	7:56	1.00	0.594	1.00	50.00	50.00	0.488	0.488	1.00
22	8:14	1.00	0.616	1.00	50.00	50.00	0.767	0.767	1.00
23	8:18	1.00	0.621	1.00	50.00	50.00	0.744	0.744	1.00
24	9:38	1.00	0.721	1.00	50.00	50.00	0.488	0.488	1.00
25	9:52	1.00	0.738	1.00	60.00	60.00	0.689	0.689	1.00
26	10:26	1.00	0.781	1.00	50.00	50.00	0.434	0.434	1.00
27	10:48	1.00	0.808	1.00	50.00	50.00	0.524	0.524	1.00
28	10:58	1.00	0.820	1.00	50.00	50.00	0.371	0.371	1.00
29	11:00	1.00	0.823	1.00	50.00	50.00	1.186	1.186	1.00
30	11:02	1.00	0.825	1.00	40.00	40.00	0.541	0.541	1.00
31	12:04	1.00	0.903	1.00	50.00	50.00	0.288	0.288	1.00
32	13:12	1.00	0.988	1.00	50.00	50.00	0.341	0.341	1.00
33	17:44	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	16:44	1.00	0.944	1.00	50.00	50.00	1.245	1.245	1.00
35	21:06	1.00	1.190	1.00	50.00	50.00	0.876	0.876	1.00
36	13:56	1.00	0.786	1.00	50.00	50.00	0.488	0.488	1.00
37	15:22	1.00	0.867	1.00	50.00	50.00	0.346	0.346	1.00
38	15:36	1.00	0.880	1.00	50.00	50.00	0.417	0.417	1.00
39	15:22	1.00	0.867	1.00	50.00	50.00	0.713	0.713	1.00
40	16:54	1.00	0.953	1.00	50.00	50.00	0.858	0.858	1.00
41	17:50	1.00	1.006	1.00	50.00	50.00	1.000	1.000	1.00
42	19:32	1.00	1.102	1.00	50.00	50.00	0.501	0.501	1.00
43	22:02	1.00	1.242	1.00	50.00	50.00	1.039	1.039	1.00
44	22:46	1.00	1.284	1.00	50.00	50.00	0.556	0.556	1.00
45	24:40	1.00	1.391	1.00	50.00	50.00	0.808	0.808	1.00
46	25:06	1.00	1.415	1.00	50.00	50.00	0.805	0.805	1.00
47	25:30	1.00	1.438	1.00	50.00	50.00	0.778	0.778	1.00
48	1:20	1.00	0.331	1.00	50.00	50.00	0.144	0.144	1.00

107

RIC
11/29/90 13:18:00
SAMPLE: VSTD100/STD 100PPB
CONDS.: VO/5100Y
RANGE: G 1, 810 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: Y112904 #1
CALI: Y112904 #2

SCANS 75 TO 810



Quantitation Report File: Y112904

Data: Y112904.TI
11/29/90 13:18:00
Sample: VSTD100/STD 100PPB
Conds.: VO/5100Y
Formula: Y112901 Instrument: 5100Y Weight: 0.003
Submitted by: Y112901 Analyst: KAB Acct. No.: 112990

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	
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		CIS-1,3-DICHLOROPROPENE	
26	87V	TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30		TRANS-1,3-DICHLOROPROPENE	
31	19V	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	ACETONITRILE

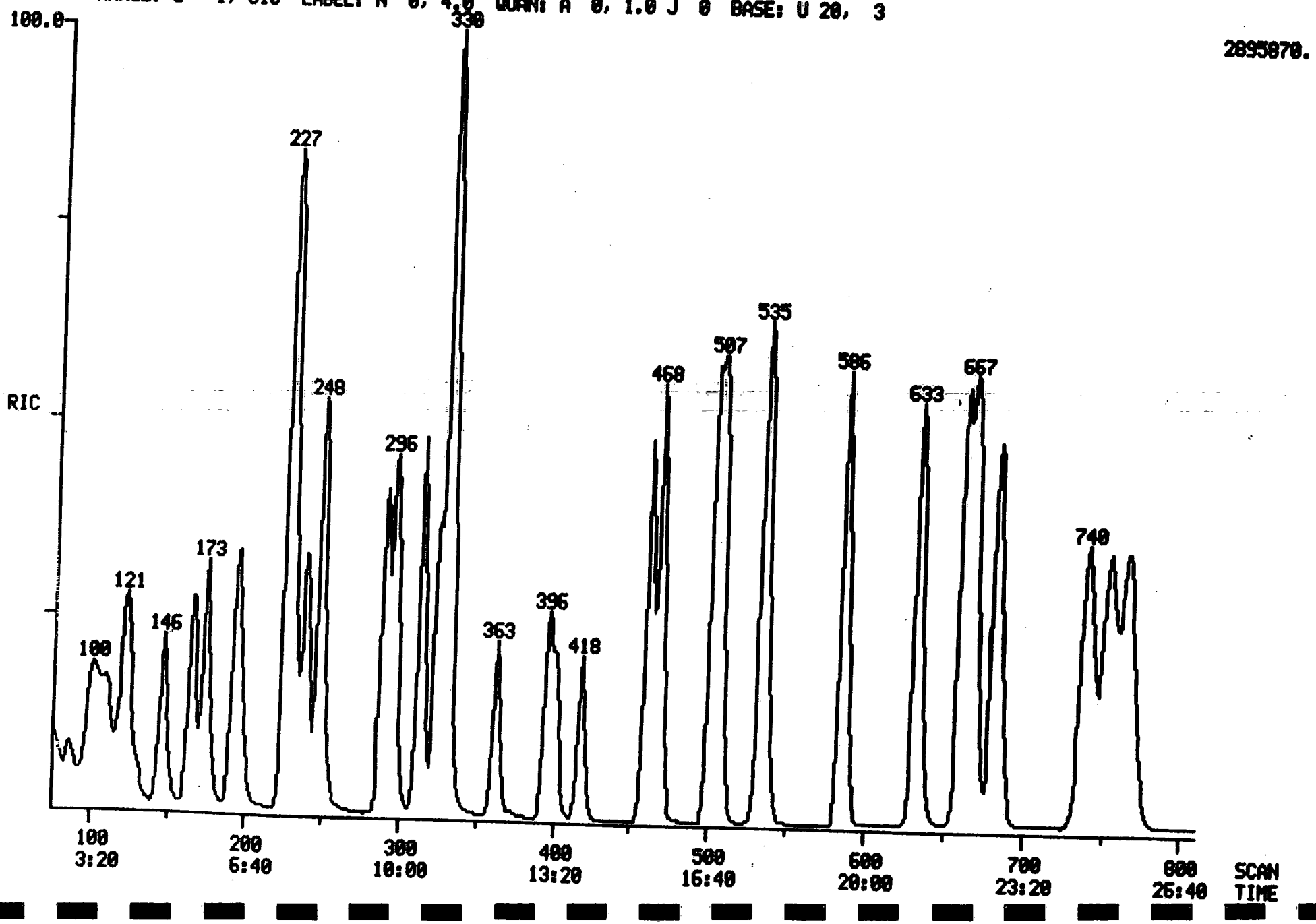
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	122	4:04	1	1.000	A BB	152290.	50.000 UG/L	1.08
2	65	192	6:24	1	1.574	A BB	778252.	100.000 UG/L	2.15
3	50	27	0:54	1	0.221	A BV	85517.	100.000 UG/L	2.15
4	94	35	1:10	1	0.287	A BB	303604.	100.000 UG/L	2.15
5	62	42	1:24	1	0.344	A BB	424223.	100.000 UG/L	2.15
6	64	47	1:34	1	0.385	A BB	392601.	100.000 UG/L	2.15
7	84	66	2:12	1	0.541	A BB	693790.	100.000 UG/L	2.15
8	43	77	2:34	1	0.631	A BB	174234.	100.000 UG/L	2.15
9	56	77	2:34	1	0.631	A BB	58986.	100.000 UG/L	2.15
10	76	99	3:18	1	0.811	A BB	1430940.	100.000 UG/L	2.15
11	101	108	3:36	1	0.885	A BB	873386.	100.000 UG/L	2.15
12	53	86	2:52	1	0.705	A VB	171214.	100.000 UG/L	2.15
13	96	119	3:58	1	0.975	A BB	427293.	100.000 UG/L	2.15
14	63	145	4:50	1	1.189	A BB	1103660.	100.000 UG/L	2.15
15	96	164	5:28	1	1.344	A BB	522833.	100.000 UG/L	2.15
16	83	173	5:46	1	1.418	A BB	1258820.	100.000 UG/L	2.15
17	62	195	6:30	1	1.598	A BB	935497.	100.000 UG/L	2.15
18	114	401	13:22	18	1.000	A BB	953375.	50.000 UG/L	1.08
19	72	197	6:34	18	0.491	A BB	67417.	100.000 UG/L	2.15
20	97	228	7:36	18	0.569	A BB	1211200.	100.000 UG/L	2.15
21	117	238	7:56	18	0.594	A VB	925722.	100.000 UG/L	2.15
22	43	247	8:14	18	0.616	A BB	1352760.	100.000 UG/L	2.15
23	83	249	8:18	18	0.621	A BB	1383460.	100.000 UG/L	2.15
24	63	290	9:40	18	0.723	A BB	909061.	100.000 UG/L	2.15
25	75	296	9:52	18	0.738	A BB	1599240.	120.000 UG/L	2.58
26	130	313	10:26	18	0.781	A BB	819909.	100.000 UG/L	2.15
27	129	324	10:48	18	0.808	A BB	1013710.	100.000 UG/L	2.15
28	97	329	10:58	18	0.820	A BB	702421.	100.000 UG/L	2.15
29	78	330	11:00	18	0.823	A BB	2195020.	100.000 UG/L	2.15
30	75	331	11:02	18	0.825	A BB	821930.	80.000 UG/L	1.72
31	63	363	12:06	18	0.905	A BB	568530.	100.000 UG/L	2.15
32	173	396	13:12	18	0.988	A BB	699733.	100.000 UG/L	2.15
33	117	532	17:44	33	1.000	A BB	880587.	50.000 UG/L	1.08
34	98	502	16:44	33	0.944	A BB	2070120.	100.000 UG/L	2.15
35	95	633	21:06	33	1.190	A BB	1444820.	100.000 UG/L	2.15
36	43	418	13:56	33	0.786	A BB	796627.	100.000 UG/L	2.15
37	43	461	15:22	33	0.867	A BB	554341.	100.000 UG/L	2.15
38	164	468	15:36	33	0.880	A BB	722881.	100.000 UG/L	2.15
39	83	461	15:22	33	0.867	A BB	1274480.	100.000 UG/L	2.15
40	92	507	16:54	33	0.953	A BB	1506170.	100.000 UG/L	2.15
41	112	536	17:52	33	1.008	A BB	1747040.	100.000 UG/L	2.15
42	106	586	19:32	33	1.102	A BB	878876.	100.000 UG/L	2.15
43	104	661	22:02	33	1.242	A BB	1789400.	100.000 UG/L	2.15
44	106	683	22:46	33	1.284	A BB	949404.	100.000 UG/L	2.15
45	146	740	24:40	33	1.391	A BV	1506770.	100.000 UG/L	2.15
46	146	754	25:08	33	1.417	A VV	1397880.	100.000 UG/L	2.15
47	146	765	25:30	33	1.438	A VB	1480710.	100.000 UG/L	2.15
48	41	41	1:22	1	0.336	A BB	33142.	100.000 UG/L	2.15

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	4:04	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	6:24	1.00	1.574	1.00	100.00	100.00	2.555	2.555	1.00
3	0:54	1.00	0.221	1.00	100.00	100.00	0.281	0.281	1.00
4	1:10	1.00	0.287	1.00	100.00	100.00	0.997	0.997	1.00
5	1:24	1.00	0.344	1.00	100.00	100.00	1.393	1.393	1.00
6	1:34	1.00	0.385	1.00	100.00	100.00	1.289	1.289	1.00
7	2:12	1.00	0.541	1.00	100.00	100.00	2.278	2.278	1.00
8	2:34	1.00	0.631	1.00	100.00	100.00	0.572	0.572	1.00
9	2:34	1.00	0.631	1.00	100.00	100.00	0.194	0.194	1.00
10	3:18	1.00	0.811	1.00	100.00	100.00	4.698	4.698	1.00
11	3:36	1.00	0.885	1.00	100.00	100.00	2.867	2.867	1.00
12	2:52	1.00	0.705	1.00	100.00	100.00	0.562	0.562	1.00
13	3:58	1.00	0.975	1.00	100.00	100.00	1.403	1.403	1.00
14	4:50	1.00	1.189	1.00	100.00	100.00	3.624	3.624	1.00
15	5:28	1.00	1.344	1.00	100.00	100.00	1.717	1.717	1.00
16	5:46	1.00	1.418	1.00	100.00	100.00	4.133	4.133	1.00
17	6:30	1.00	1.598	1.00	100.00	100.00	3.071	3.071	1.00
18	13:22	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	6:34	1.00	0.491	1.00	100.00	100.00	0.035	0.035	1.00
20	7:36	1.00	0.569	1.00	100.00	100.00	0.635	0.635	1.00
21	7:56	1.00	0.594	1.00	100.00	100.00	0.485	0.485	1.00
22	8:14	1.00	0.616	1.00	100.00	100.00	0.709	0.709	1.00
23	8:18	1.00	0.621	1.00	100.00	100.00	0.726	0.726	1.00
24	9:40	1.00	0.723	1.00	100.00	100.00	0.477	0.477	1.00
25	9:52	1.00	0.738	1.00	120.00	120.00	0.699	0.699	1.00
26	10:26	1.00	0.781	1.00	100.00	100.00	0.430	0.430	1.00
27	10:48	1.00	0.808	1.00	100.00	100.00	0.532	0.532	1.00
28	10:58	1.00	0.820	1.00	100.00	100.00	0.368	0.368	1.00
29	11:00	1.00	0.823	1.00	100.00	100.00	1.151	1.151	1.00
30	11:02	1.00	0.825	1.00	80.00	80.00	0.539	0.539	1.00
31	12:06	1.00	0.905	1.00	100.00	100.00	0.298	0.298	1.00
32	13:12	1.00	0.988	1.00	100.00	100.00	0.367	0.367	1.00
33	17:44	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	16:44	1.00	0.944	1.00	100.00	100.00	1.175	1.175	1.00
35	21:06	1.00	1.190	1.00	100.00	100.00	0.820	0.820	1.00
36	13:56	1.00	0.786	1.00	100.00	100.00	0.452	0.452	1.00
37	15:22	1.00	0.867	1.00	100.00	100.00	0.315	0.315	1.00
38	15:36	1.00	0.880	1.00	100.00	100.00	0.410	0.410	1.00
39	15:22	1.00	0.867	1.00	100.00	100.00	0.724	0.724	1.00
40	16:54	1.00	0.953	1.00	100.00	100.00	0.855	0.855	1.00
41	17:52	1.00	1.008	1.00	100.00	100.00	0.992	0.992	1.00
42	19:32	1.00	1.102	1.00	100.00	100.00	0.499	0.499	1.00
43	22:02	1.00	1.242	1.00	100.00	100.00	1.016	1.016	1.00
44	22:46	1.00	1.284	1.00	100.00	100.00	0.539	0.539	1.00
45	24:40	1.00	1.391	1.00	100.00	100.00	0.856	0.856	1.00
46	25:08	1.00	1.417	1.00	100.00	100.00	0.794	0.794	1.00
47	25:30	1.00	1.438	1.00	100.00	100.00	0.841	0.841	1.00
48	1:22	1.00	0.336	1.00	100.00	100.00	0.109	0.109	1.00

RIC
11/29/90 13:52:00
SAMPLE: VSTD150/STD 150PPB
CONDS.: VO/5100Y
RANGE: G 1, 810 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: Y112905 #1
CALI: Y112905 #2

SCANS 75 TO 810



Quantitation Report File: Y112905

Data: Y112905.TI
11/29/90 13:52:00
Sample: VSTD150/STD 150PPB
Conds.: VO/5100Y
Formula: Y112901 Instrument: 5100Y Weight: 0.003
Submitted by: Y112901 Analyst: KAB Acct. No.: 112990

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	
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		CIS-1,3-DICHLOROPROPENE	
26	87V	TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30		TRANS-1,3-DICHLOROPROPENE	
31	19V	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	ACETONITRILE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	121	4:02	1	1.000	A BB	150818.	50.000 UG/L	0.72
2	65	192	6:24	1	1.587	A BB	1241620.	150.000 UG/L	2.17
3	50	27	0:54	1	0.223	A BV	82211.	150.000 UG/L	2.17
4	94	35	1:10	1	0.289	A BB	333312.	150.000 UG/L	2.17
5	62	43	1:26	1	0.355	A BB	515330.	150.000 UG/L	2.17
6	64	47	1:34	1	0.388	A BB	477167.	150.000 UG/L	2.17
7	84	66	2:12	1	0.545	A BB	847084.	150.000 UG/L	2.17
8	43	77	2:34	1	0.636	A BB	229538.	150.000 UG/L	2.17
9	56	77	2:34	1	0.636	A BB	80496.	150.000 UG/L	2.17
10	76	100	3:20	1	0.826	A BB	2376940.	150.000 UG/L	2.17
11	101	108	3:36	1	0.893	A BB	1411450.	150.000 UG/L	2.17
12	53	86	2:52	1	0.711	A VB	262140.	150.000 UG/L	2.17
13	96	120	4:00	1	0.992	A BB	718446.	150.000 UG/L	2.17
14	63	146	4:52	1	1.207	A BB	1824900.	150.000 UG/L	2.17
15	96	164	5:28	1	1.355	A BB	883959.	150.000 UG/L	2.17
16	83	173	5:46	1	1.430	A BB	2050170.	150.000 UG/L	2.17
17	62	195	6:30	1	1.612	A BB	1460310.	150.000 UG/L	2.17
18	114	401	13:22	18	1.000	A BB	991111.	50.000 UG/L	0.72
19	72	198	6:36	18	0.494	A BB	112987.	150.000 UG/L	2.17
20	97	229	7:38	18	0.571	A BB	1719630.	150.000 UG/L	2.17
21	117	238	7:56	18	0.594	A VB	1468300.	150.000 UG/L	2.17
22	43	247	8:14	18	0.616	A BB	2093600.	150.000 UG/L	2.17
23	83	249	8:18	18	0.621	A BB	2213210.	150.000 UG/L	2.17
24	63	290	9:40	18	0.723	A BB	1395750.	150.000 UG/L	2.17
25	75	296	9:52	18	0.738	A BB	2447900.	180.000 UG/L	2.61
26	130	313	10:26	18	0.781	A BB	1293520.	150.000 UG/L	2.17
27	129	323	10:46	18	0.805	A BB	1583340.	150.000 UG/L	2.17
28	97	329	10:58	18	0.820	A BB	1065260.	150.000 UG/L	2.17
29	78	330	11:00	18	0.823	A BB	3095590.	150.000 UG/L	2.17
30	75	331	11:02	18	0.825	A BB	1271880.	120.000 UG/L	1.74
31	63	363	12:06	18	0.905	A BB	871338.	150.000 UG/L	2.17
32	173	396	13:12	18	0.988	A BB	1092340.	150.000 UG/L	2.17
33	117	532	17:44	33	1.000	A BB	926690.	50.000 UG/L	0.72
34	98	502	16:44	33	0.944	A BB	2957400.	150.000 UG/L	2.17
35	95	633	21:06	33	1.190	A BB	2227150.	150.000 UG/L	2.17
36	43	418	13:56	33	0.786	A BB	1252230.	150.000 UG/L	2.17
37	43	461	15:22	33	0.867	A BB	866908.	150.000 UG/L	2.17
38	164	468	15:36	33	0.880	A BB	1102850.	150.000 UG/L	2.17
39	83	461	15:22	33	0.867	A BB	1872400.	150.000 UG/L	2.17
40	92	507	16:54	33	0.953	A BB	2271000.	150.000 UG/L	2.17
41	112	536	17:52	33	1.008	A BB	2632470.	150.000 UG/L	2.17
42	106	586	19:32	33	1.102	A BB	1341420.	150.000 UG/L	2.17
43	104	661	22:02	33	1.242	A BB	2797480.	150.000 UG/L	2.17
44	106	683	22:46	33	1.284	A BB	1474280.	150.000 UG/L	2.17
45	146	740	24:40	33	1.391	A BV	2259530.	150.000 UG/L	2.17
46	146	754	25:08	33	1.417	A VV	2234360.	150.000 UG/L	2.17
47	146	765	25:30	33	1.438	A VB	2052310.	150.000 UG/L	2.17
48	41	41	1:22	1	0.339	A BB	35499.	150.000 UG/L	2.17

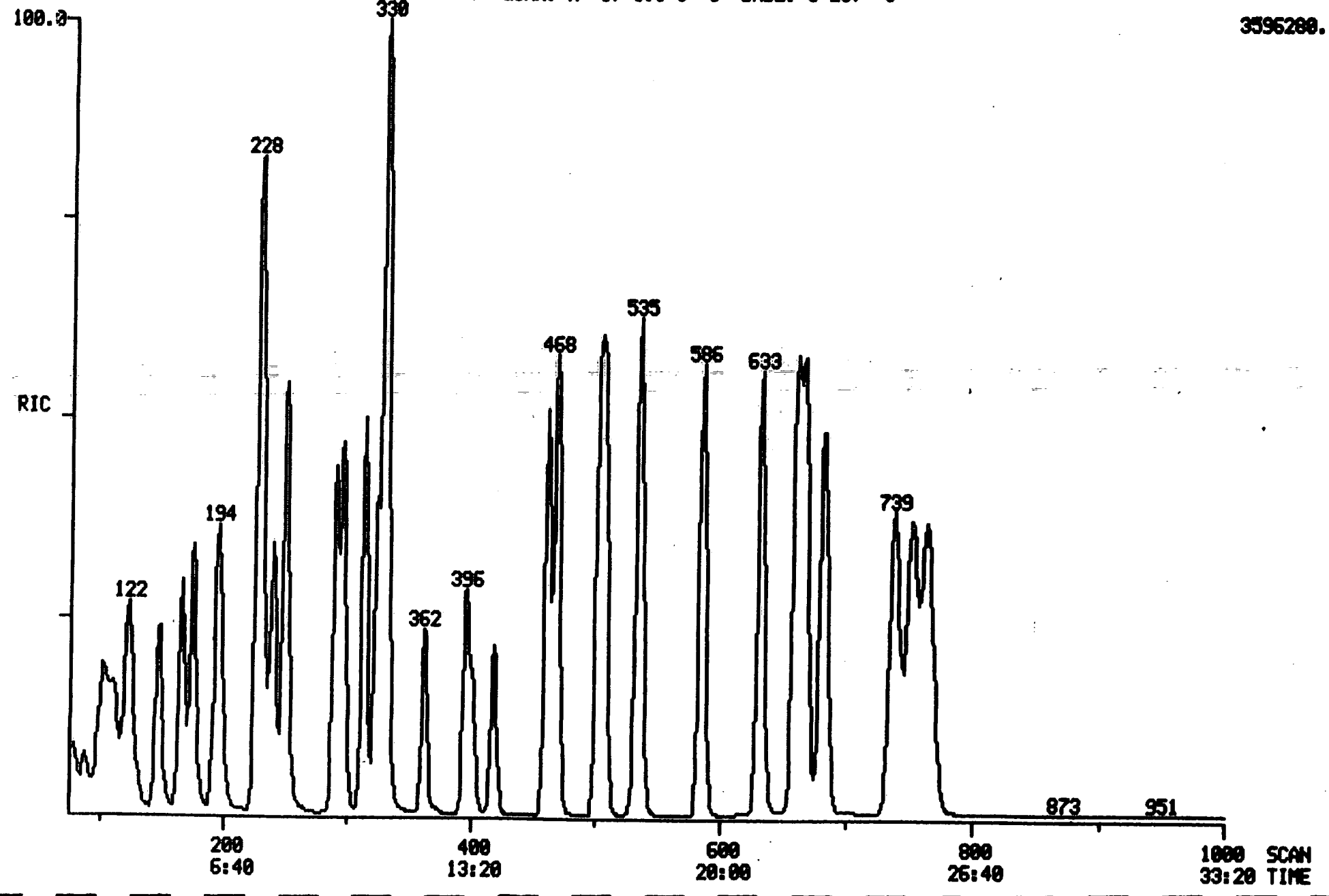
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	4:02	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	6:24	1.00	1.587	1.00	150.00	150.00	2.744	2.744	1.00
3	0:54	1.00	0.223	1.00	150.00	150.00	0.182	0.182	1.00
4	1:10	1.00	0.289	1.00	150.00	150.00	0.737	0.737	1.00
5	1:26	1.00	0.355	1.00	150.00	150.00	1.139	1.139	1.00
6	1:34	1.00	0.388	1.00	150.00	150.00	1.055	1.055	1.00
7	2:12	1.00	0.545	1.00	150.00	150.00	1.872	1.872	1.00
8	2:34	1.00	0.636	1.00	150.00	150.00	0.507	0.507	1.00
9	2:34	1.00	0.636	1.00	150.00	150.00	0.178	0.178	1.00
10	3:20	1.00	0.826	1.00	150.00	150.00	5.253	5.253	1.00
11	3:36	1.00	0.893	1.00	150.00	150.00	3.120	3.120	1.00
12	2:52	1.00	0.711	1.00	150.00	150.00	0.579	0.579	1.00
13	4:00	1.00	0.992	1.00	150.00	150.00	1.588	1.588	1.00
14	4:52	1.00	1.207	1.00	150.00	150.00	4.033	4.033	1.00
15	5:28	1.00	1.355	1.00	150.00	150.00	1.954	1.954	1.00
16	5:46	1.00	1.430	1.00	150.00	150.00	4.531	4.531	1.00
17	6:30	1.00	1.612	1.00	150.00	150.00	3.228	3.228	1.00
18	13:22	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	6:36	1.00	0.494	1.00	150.00	150.00	0.038	0.038	1.00
20	7:38	1.00	0.571	1.00	150.00	150.00	0.578	0.578	1.00
21	7:56	1.00	0.594	1.00	150.00	150.00	0.494	0.494	1.00
22	8:14	1.00	0.616	1.00	150.00	150.00	0.704	0.704	1.00
23	8:18	1.00	0.621	1.00	150.00	150.00	0.744	0.744	1.00
24	9:40	1.00	0.723	1.00	150.00	150.00	0.469	0.469	1.00
25	9:52	1.00	0.738	1.00	180.00	180.00	0.686	0.686	1.00
26	10:26	1.00	0.781	1.00	150.00	150.00	0.435	0.435	1.00
27	10:46	1.00	0.805	1.00	150.00	150.00	0.533	0.533	1.00
28	10:58	1.00	0.820	1.00	150.00	150.00	0.358	0.358	1.00
29	11:00	1.00	0.823	1.00	150.00	150.00	1.041	1.041	1.00
30	11:02	1.00	0.825	1.00	120.00	120.00	0.535	0.535	1.00
31	12:06	1.00	0.905	1.00	150.00	150.00	0.293	0.293	1.00
32	13:12	1.00	0.988	1.00	150.00	150.00	0.367	0.367	1.00
33	17:44	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	16:44	1.00	0.944	1.00	150.00	150.00	1.064	1.064	1.00
35	21:06	1.00	1.190	1.00	150.00	150.00	0.801	0.801	1.00
36	13:56	1.00	0.786	1.00	150.00	150.00	0.450	0.450	1.00
37	15:22	1.00	0.867	1.00	150.00	150.00	0.312	0.312	1.00
38	15:36	1.00	0.880	1.00	150.00	150.00	0.397	0.397	1.00
39	15:22	1.00	0.867	1.00	150.00	150.00	0.674	0.674	1.00
40	16:54	1.00	0.953	1.00	150.00	150.00	0.817	0.817	1.00
41	17:52	1.00	1.008	1.00	150.00	150.00	0.947	0.947	1.00
42	19:32	1.00	1.102	1.00	150.00	150.00	0.483	0.483	1.00
43	22:02	1.00	1.242	1.00	150.00	150.00	1.006	1.006	1.00
44	22:46	1.00	1.284	1.00	150.00	150.00	0.530	0.530	1.00
45	24:40	1.00	1.391	1.00	150.00	150.00	0.813	0.813	1.00
46	25:08	1.00	1.417	1.00	150.00	150.00	0.804	0.804	1.00
47	25:30	1.00	1.438	1.00	150.00	150.00	0.738	0.738	1.00
48	1:22	1.00	0.339	1.00	150.00	150.00	0.078	0.078	1.00

11

RIC
11/29/90 14:28:00
SAMPLE: V5TD200/STD 200PPB
CONDS.: V0/5100Y
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: Y112906 #1
CALI: Y112906 #2

SCANS 75 TO 1000



Quantitation Report File: Y112906

Data: Y112906.TI
11/29/90 14:28:00
Sample: VSTD200/STD 200PPB
Conds.: VO/5100Y
Formula: Y112901 Instrument: 5100Y Weight: 0.003
Submitted by: Y112901 Analyst: KAB Acct. No.: 112990

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	
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		CIS-1,3-DICHLOROPROPENE	
26	87V	TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30		TRANS-1,3-DICHLOROPROPENE	
31	19V	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	ACETONITRILE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	123	4:06	1	1.000	A BB	142368.	50.000 UG/L	0.55
2	65	193	6:26	1	1.569	A BB	1665860.	200.000 UG/L	2.19
3	50	28	0:56	1	0.228	A BB	77829.	200.000 UG/L	2.19
4	94	37	1:14	1	0.301	A BB	364319.	200.000 UG/L	2.19
5	62	44	1:28	1	0.358	A BB	603054.	200.000 UG/L	2.19
6	64	49	1:38	1	0.398	A BB	593864.	200.000 UG/L	2.19
7	84	68	2:16	1	0.553	A BB	1085430.	200.000 UG/L	2.19
8	43	79	2:38	1	0.642	A BB	297362.	200.000 UG/L	2.19
9	56	79	2:38	1	0.642	A BB	107018.	200.000 UG/L	2.19
10	76	101	3:22	1	0.821	A BB	3168880.	200.000 UG/L	2.19
11	101	110	3:40	1	0.894	A BB	1879510.	200.000 UG/L	2.19
12	53	87	2:54	1	0.707	A VB	348992.	200.000 UG/L	2.19
13	96	121	4:02	1	0.984	A BB	939746.	200.000 UG/L	2.19
14	63	147	4:54	1	1.195	A BB	2414440.	200.000 UG/L	2.19
15	96	165	5:30	1	1.341	A BB	1158770.	200.000 UG/L	2.19
16	83	174	5:48	1	1.415	A BB	2705980.	200.000 UG/L	2.19
17	62	195	6:30	1	1.585	A BB	1933380.	200.000 UG/L	2.19
18	114	401	13:22	18	1.000	A BB	956867.	50.000 UG/L	0.55
19	72	199	6:38	18	0.496	A BB	149136.	200.000 UG/L	2.19
20	97	229	7:38	18	0.571	A BB	2210300.	200.000 UG/L	2.19
21	117	239	7:58	18	0.596	A VB	1916770.	200.000 UG/L	2.19
22	43	248	8:16	18	0.618	A BB	2606330.	200.000 UG/L	2.19
23	83	249	8:18	18	0.621	A VB	2851450.	200.000 UG/L	2.19
24	63	290	9:40	18	0.723	A BB	1826940.	200.000 UG/L	2.19
25	75	296	9:52	18	0.738	A BB	3072780.	240.000 UG/L	2.62
26	130	313	10:26	18	0.781	A BB	1679970.	200.000 UG/L	2.19
27	129	323	10:46	18	0.805	A BB	2120240.	200.000 UG/L	2.19
28	97	329	10:58	18	0.820	A BB	1398740.	200.000 UG/L	2.19
29	78	330	11:00	18	0.823	A BB	3581380.	200.000 UG/L	2.19
30	75	331	11:02	18	0.825	A BB	1665500.	160.000 UG/L	1.75
31	63	362	12:04	18	0.903	A BB	1130090.	200.000 UG/L	2.19
32	173	395	13:10	18	0.985	A BB	1496730.	200.000 UG/L	2.19
33	117	532	17:44	33	1.000	A BB	894920.	50.000 UG/L	0.55
34	98	502	16:44	33	0.944	A BB	3528570.	200.000 UG/L	2.19
35	95	633	21:06	33	1.190	A BB	2899960.	200.000 UG/L	2.19
36	43	418	13:56	33	0.786	A BB	1602080.	200.000 UG/L	2.19
37	43	461	15:22	33	0.867	A BB	1104600.	200.000 UG/L	2.19
38	164	468	15:36	33	0.880	A BB	1433260.	200.000 UG/L	2.19
39	83	460	15:20	33	0.865	A BB	2519350.	200.000 UG/L	2.19
40	92	507	16:54	33	0.953	A BB	2862730.	200.000 UG/L	2.19
41	112	535	17:50	33	1.006	A BB	3230120.	200.000 UG/L	2.19
42	106	586	19:32	33	1.102	A BB	1741270.	200.000 UG/L	2.19
43	104	661	22:02	33	1.242	A BB	3543030.	200.000 UG/L	2.19
44	106	682	22:44	33	1.282	A BB	1925630.	200.000 UG/L	2.19
45	146	739	24:38	33	1.389	A BV	2952970.	200.000 UG/L	2.19
46	146	753	25:06	33	1.415	A VV	2941690.	200.000 UG/L	2.19
47	146	764	25:28	33	1.436	A VB	2684990.	200.000 UG/L	2.19
48	41	42	1:24	1	0.341	A BB	45092.	200.000 UG/L	2.19

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	4:06	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	6:26	1.00	1.569	1.00	200.00	200.00	2.925	2.925	1.00
3	0:56	1.00	0.228	1.00	200.00	200.00	0.137	0.137	1.00
4	1:14	1.00	0.301	1.00	200.00	200.00	0.640	0.640	1.00
5	1:28	1.00	0.358	1.00	200.00	200.00	1.059	1.059	1.06
6	1:38	1.00	0.398	1.00	200.00	200.00	1.043	1.043	1.00
7	2:16	1.00	0.553	1.00	200.00	200.00	1.906	1.906	1.00
8	2:38	1.00	0.642	1.00	200.00	200.00	0.522	0.522	1.00
9	2:38	1.00	0.642	1.00	200.00	200.00	0.188	0.188	1.00
10	3:22	1.00	0.821	1.00	200.00	200.00	5.565	5.565	1.00
11	3:40	1.00	0.894	1.00	200.00	200.00	3.300	3.300	1.00
12	2:54	1.00	0.707	1.00	200.00	200.00	0.613	0.613	1.00
13	4:02	1.00	0.984	1.00	200.00	200.00	1.650	1.650	1.00
14	4:54	1.00	1.195	1.00	200.00	200.00	4.240	4.240	1.00
15	5:30	1.00	1.341	1.00	200.00	200.00	2.035	2.035	1.00
16	5:48	1.00	1.415	1.00	200.00	200.00	4.752	4.752	1.00
17	6:30	1.00	1.585	1.00	200.00	200.00	3.395	3.395	1.00
18	13:22	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	6:38	1.00	0.496	1.00	200.00	200.00	0.039	0.039	1.00
20	7:38	1.00	0.571	1.00	200.00	200.00	0.577	0.577	1.00
21	7:58	1.00	0.596	1.00	200.00	200.00	0.501	0.501	1.00
22	8:16	1.00	0.618	1.00	200.00	200.00	0.681	0.681	1.00
23	8:18	1.00	0.621	1.00	200.00	200.00	0.745	0.745	1.00
24	9:40	1.00	0.723	1.00	200.00	200.00	0.477	0.477	1.00
25	9:52	1.00	0.738	1.00	240.00	240.00	0.669	0.669	1.00
26	10:26	1.00	0.781	1.00	200.00	200.00	0.439	0.439	1.00
27	10:46	1.00	0.805	1.00	200.00	200.00	0.554	0.554	1.00
28	10:58	1.00	0.820	1.00	200.00	200.00	0.365	0.365	1.00
29	11:00	1.00	0.823	1.00	200.00	200.00	0.936	0.936	1.00
30	11:02	1.00	0.825	1.00	160.00	160.00	0.544	0.544	1.00
31	12:04	1.00	0.903	1.00	200.00	200.00	0.295	0.295	1.00
32	13:10	1.00	0.985	1.00	200.00	200.00	0.391	0.391	1.00
33	17:44	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	16:44	1.00	0.944	1.00	200.00	200.00	0.986	0.986	1.00
35	21:06	1.00	1.190	1.00	200.00	200.00	0.810	0.810	1.00
36	13:56	1.00	0.786	1.00	200.00	200.00	0.448	0.448	1.00
37	15:22	1.00	0.867	1.00	200.00	200.00	0.309	0.309	1.00
38	15:36	1.00	0.880	1.00	200.00	200.00	0.400	0.400	1.00
39	15:20	1.00	0.865	1.00	200.00	200.00	0.704	0.704	1.00
40	16:54	1.00	0.953	1.00	200.00	200.00	0.800	0.800	1.00
41	17:50	1.00	1.006	1.00	200.00	200.00	0.902	0.902	1.00
42	19:32	1.00	1.102	1.00	200.00	200.00	0.486	0.486	1.00
43	22:02	1.00	1.242	1.00	200.00	200.00	0.990	0.990	1.00
44	22:44	1.00	1.282	1.00	200.00	200.00	0.538	0.538	1.00
45	24:38	1.00	1.389	1.00	200.00	200.00	0.825	0.825	1.00
46	25:06	1.00	1.415	1.00	200.00	200.00	0.822	0.822	1.00
47	25:28	1.00	1.436	1.00	200.00	200.00	0.750	0.750	1.00
48	1:24	1.00	0.341	1.00	200.00	200.00	0.079	0.079	1.00

7A

VOLATILE CONTINUING CALIBRATION CHECK

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

Case No.: WSI-LE CARPENTER RFW Lot: 9011L775

Instrument ID: 5100Y Calibration Date: 12/05/90 Time: 0940

Lab File ID: Y120502 Init. Calib. Date(s): 11/29/90 11/29/90

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

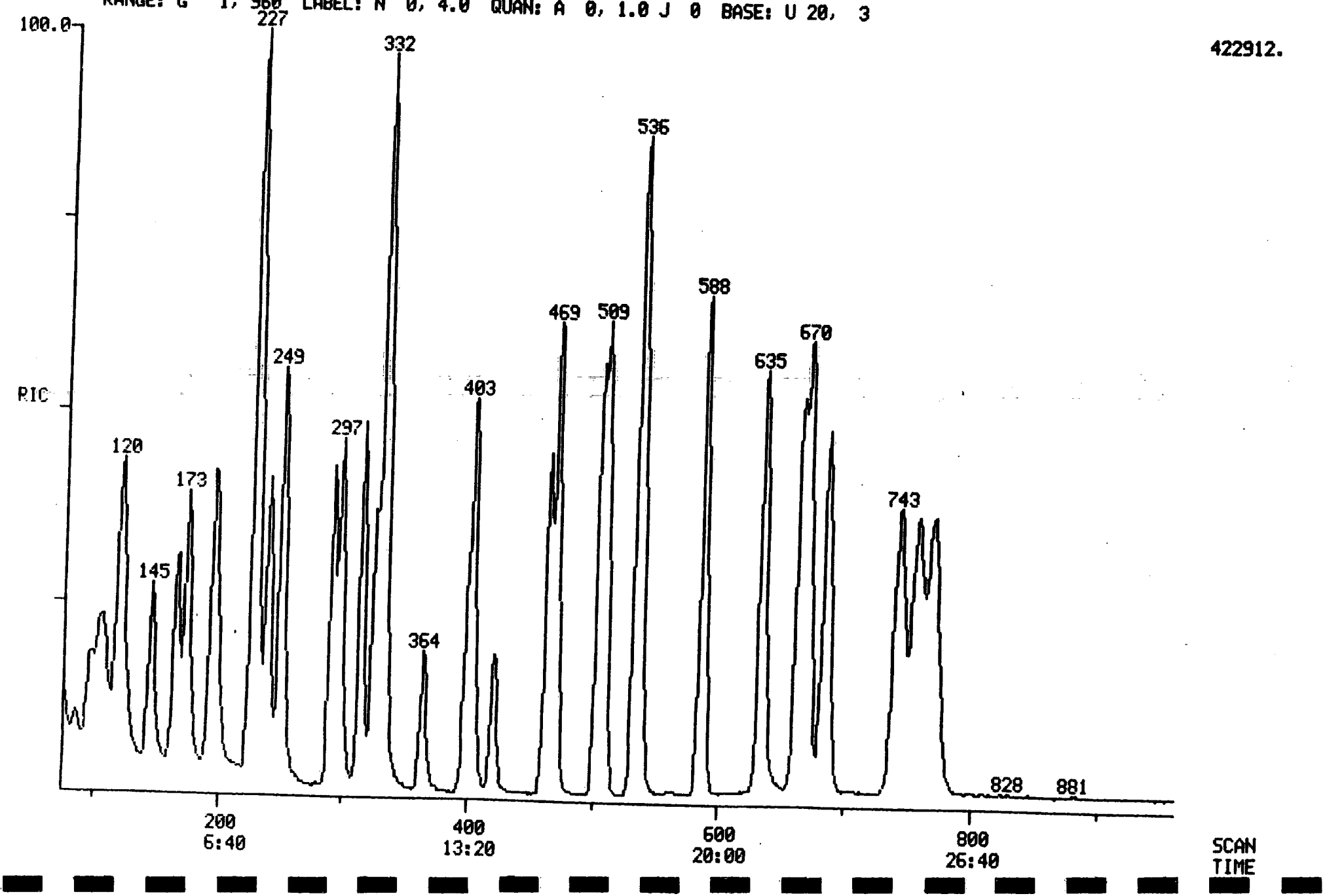
Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	0.347	0.546	-57.3	#
Bromomethane		1.027	1.485	-44.6	
Vinyl Chloride	*	1.412	1.625	-15.1	*
Chloroethane		1.223	1.469	-20.1	
Methylene Chloride		2.783	1.843	33.8	
1,1-Dichloroethene	*	1.504	1.522	-1.2	*
1,1-Dichloroethane	#	3.852	4.108	-6.6	#
1,2-Dichloroethene (total)		1.828	1.786	2.3	
Chloroform	*	4.318	5.118	-18.5	*
1,2-Dichloroethane		3.145	4.463	-41.9	
1,1,1-Trichloroethane		0.611	0.909	-48.8	
Carbon Tetrachloride		0.480	0.756	-57.5	
Bromodichloromethane		0.736	0.995	-35.2	
1,2-Dichloropropane	*	0.478	0.480	-0.4	*
cis-1,3-Dichloropropene		0.683	0.911	-33.4	
Trichloroethene		0.435	0.477	-9.7	
Dibromochloromethane		0.526	0.619	-17.7	
1,1,2-Trichloroethane		0.366	0.372	-1.6	
Benzene		1.096	1.162	-6.0	
Trans-1,3-Dichloropropene		0.533	0.510	4.3	
2-chloroethylvinylether		0.292	0.271	7.2	
Bromoform	#	0.353	0.382	-8.2	#
Tetrachloroethene		0.407	0.472	-16.0	
1,1,2,2-Tetrachloroethane	#	0.703	0.636	9.5	#
Toluene	*	0.837	0.896	-7.0	*
Chlorobenzene	#	0.968	1.065	-10.0	#
Ethylbenzene	*	0.492	0.531	-7.9	*
1,2-Dichlorobenzene		0.795	0.884	-11.2	
1,3-Dichlorobenzene		0.830	0.884	-6.5	
1,4-Dichlorobenzene		0.795	0.898	-13.0	
Acrolein		0.192	0.250	-30.2	
Acrylonitrile		0.570	0.492	13.7	
Trichlorofluoromethane		3.063	4.188	-36.7	
Xylene (total)		0.540	0.548	-1.5	
Toluene-d8		1.133	1.181	-4.2	
Bromofluorobenzene		0.833	0.887	-6.5	
1,2-Dichloroethane-d4		2.699	3.564	-32.0	

RIC
12/05/90 9:40:00
SAMPLE: VSTD50 /50PPB WATER
CONDS.: VO/5100Y
RANGE: G 1, 960 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: Y120502 #1
CALI: Y120502 #2

SCANS 75 TO 960



Quantitation Report File: Y120502

Data: Y120502.TI
12/05/90 9:40:00
Sample: VSTD50 /50PPB WATER
Conds.: VO/5100Y
Formula: Y120501
Submitted by: Y120501

Instrument: 5100Y
Analyst: JBD

Weight: 0.001
Acct. No.: 120590

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

No	Name		
1	IS1	BROMOCHLOROMETHANE	
2	SS1	1,2-DICHLOROETHANE D4	INTERNAL 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		CIS-1,3-DICHLOROPROPENE	
26	87V	TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30		TRANS-1,3-DICHLOROPROPENE	
31	19V	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	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	120	4:00	1	1.000	A BB	65594.	50.000 UG/L	2.13
2	65	193	6:26	1	1.608	A BB	233781.	50.000 UG/L	2.13
3	50	24	0:48	1	0.200	A BB	35795.	50.000 UG/L	2.13
4	94	32	1:04	1	0.267	A BB	97419.	50.000 UG/L	2.13
5	62	39	1:18	1	0.325	A BB	106610.	50.000 UG/L	2.13
6	64	45	1:30	1	0.375	A BB	96337.	50.000 UG/L	2.13
7	84	63	2:06	1	0.525	A BB	120861.	50.000 UG/L	2.13
8	43	76	2:32	1	0.633	A BB	55830.	50.000 UG/L	2.13
9	56	77	2:34	1	0.642	A BB	16404.	50.000 UG/L	2.13
10	76	97	3:14	1	0.808	A BB	280558.	50.000 UG/L	2.13
11	101	106	3:32	1	0.883	A BB	274714.	50.000 UG/L	2.13
12	53	86	2:52	1	0.717	A VB	32291.	50.000 UG/L	2.13
13	96	118	3:56	1	0.983	A BB	99814.	50.000 UG/L	2.13
14	63	145	4:50	1	1.208	A BB	269443.	50.000 UG/L	2.13
15	96	164	5:28	1	1.367	A BB	117141.	50.000 UG/L	2.13
16	83	173	5:46	1	1.442	A BB	335716.	50.000 UG/L	2.13
17	62	195	6:30	1	1.625	A BB	292723.	50.000 UG/L	2.13
18	114	403	13:26	18	1.000	A BB	343449.	50.000 UG/L	2.13
19	72	199	6:38	18	0.494	A BB	18140.	50.000 UG/L	2.13
20	97	228	7:36	18	0.566	A BB	312355.	50.000 UG/L	2.13
21	117	239	7:58	18	0.593	A VB	259711.	50.000 UG/L	2.13
22	43	249	8:18	18	0.618	A BB	260701.	50.000 UG/L	2.13
23	83	250	8:20	18	0.620	A BB	341661.	50.000 UG/L	2.13
24	63	291	9:42	18	0.722	A BB	164857.	50.000 UG/L	2.13
25	75	297	9:54	18	0.737	A BB	313035.	50.000 UG/L	2.13
26	130	315	10:30	18	0.782	A BB	163869.	50.000 UG/L	2.13
27	129	325	10:50	18	0.806	A BB	212525.	50.000 UG/L	2.13
28	97	330	11:00	18	0.819	A BB	127618.	50.000 UG/L	2.13
29	78	332	11:04	18	0.824	A BB	398967.	50.000 UG/L	2.13
30	75	333	11:06	18	0.826	A BB	175157.	50.000 UG/L	2.13
31	63	364	12:08	18	0.903	A BB	93212.	50.000 UG/L	2.13
32	173	398	13:16	18	0.988	A BB	131339.	50.000 UG/L	2.13
33	117	534	17:48	33	1.000	A BB	323664.	50.000 UG/L	2.13
34	98	504	16:48	33	0.944	A BB	382190.	50.000 UG/L	2.13
35	95	635	21:10	33	1.189	A BB	287230.	50.000 UG/L	2.13
36	43	420	14:00	33	0.787	A BB	156792.	50.000 UG/L	2.13
37	43	463	15:26	33	0.867	A BB	132079.	50.000 UG/L	2.13
38	164	469	15:38	33	0.878	A BB	152877.	50.000 UG/L	2.13
39	83	463	15:26	33	0.867	A BB	205826.	50.000 UG/L	2.13
40	92	509	16:58	33	0.953	A BB	290081.	50.000 UG/L	2.13
41	112	537	17:54	33	1.006	A BB	344719.	50.000 UG/L	2.13
42	106	587	19:34	33	1.099	A BB	171888.	50.000 UG/L	2.13
43	104	663	22:06	33	1.242	A BB	332841.	50.000 UG/L	2.13
44	106	685	22:50	33	1.283	A BB	177248.	50.000 UG/L	2.13
45	146	742	24:44	33	1.390	A BV	286052.	50.000 UG/L	2.13
46	146	756	25:12	33	1.416	A VV	286240.	50.000 UG/L	2.13
47	146	768	25:36	33	1.438	A VB	290572.	50.000 UG/L	2.13

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:00	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	6:26	1.00	1.608	1.00	50.00	50.00	3.564	3.564	1.00
3	0:48	1.00	0.200	1.00	50.00	50.00	0.546	0.546	1.00
4	1:04	1.00	0.267	1.00	50.00	50.00	1.485	1.485	1.00
5	1:18	1.00	0.325	1.00	50.00	50.00	1.625	1.625	1.00
6	1:30	1.00	0.375	1.00	50.00	50.00	1.469	1.469	1.00
7	2:06	1.00	0.525	1.00	50.00	50.00	1.843	1.843	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	2:32	1.00	0.633	1.00	50.00	50.00	0.851	0.851	1.00
9	2:34	1.00	0.642	1.00	50.00	50.00	0.250	0.250	1.00
10	3:14	1.00	0.808	1.00	50.00	50.00	4.277	4.277	1.00
11	3:32	1.00	0.883	1.00	50.00	50.00	4.188	4.188	1.00
12	2:52	1.00	0.717	1.00	50.00	50.00	0.492	0.492	1.00
13	3:56	1.00	0.983	1.00	50.00	50.00	1.522	1.522	1.00
14	4:50	1.00	1.208	1.00	50.00	50.00	4.108	4.108	1.00
15	5:28	1.00	1.367	1.00	50.00	50.00	1.786	1.786	1.00
16	5:46	1.00	1.442	1.00	50.00	50.00	5.118	5.118	1.00
17	6:30	1.00	1.625	1.00	50.00	50.00	4.463	4.463	1.00
18	13:26	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	6:38	1.00	0.494	1.00	50.00	50.00	0.053	0.053	1.00
20	7:36	1.00	0.566	1.00	50.00	50.00	0.909	0.909	1.00
21	7:58	1.00	0.593	1.00	50.00	50.00	0.756	0.756	1.00
22	8:18	1.00	0.618	1.00	50.00	50.00	0.759	0.759	1.00
23	8:20	1.00	0.620	1.00	50.00	50.00	0.995	0.995	1.00
24	9:42	1.00	0.722	1.00	50.00	50.00	0.480	0.480	1.00
25	9:54	1.00	0.737	1.00	50.00	50.00	0.911	0.911	1.00
26	10:30	1.00	0.782	1.00	50.00	50.00	0.477	0.477	1.00
27	10:50	1.00	0.806	1.00	50.00	50.00	0.619	0.619	1.00
28	11:00	1.00	0.819	1.00	50.00	50.00	0.372	0.372	1.00
29	11:04	1.00	0.824	1.00	50.00	50.00	1.162	1.162	1.00
30	11:06	1.00	0.826	1.00	50.00	50.00	0.510	0.510	1.00
31	12:08	1.00	0.903	1.00	50.00	50.00	0.271	0.271	1.00
32	13:16	1.00	0.988	1.00	50.00	50.00	0.382	0.382	1.00
33	17:48	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	16:48	1.00	0.944	1.00	50.00	50.00	1.181	1.181	1.00
35	21:10	1.00	1.189	1.00	50.00	50.00	0.887	0.887	1.00
36	14:00	1.00	0.787	1.00	50.00	50.00	0.484	0.484	1.00
37	15:26	1.00	0.867	1.00	50.00	50.00	0.408	0.408	1.00
38	15:38	1.00	0.878	1.00	50.00	50.00	0.472	0.472	1.00
39	15:26	1.00	0.867	1.00	50.00	50.00	0.636	0.636	1.00
40	16:58	1.00	0.953	1.00	50.00	50.00	0.896	0.896	1.00
41	17:54	1.00	1.006	1.00	50.00	50.00	1.065	1.065	1.00
42	19:34	1.00	1.099	1.00	50.00	50.00	0.531	0.531	1.00
43	22:06	1.00	1.242	1.00	50.00	50.00	1.028	1.028	1.00
44	22:50	1.00	1.283	1.00	50.00	50.00	0.548	0.548	1.00
45	24:44	1.00	1.390	1.00	50.00	50.00	0.884	0.884	1.00
46	25:12	1.00	1.416	1.00	50.00	50.00	0.884	0.884	1.00
47	25:36	1.00	1.438	1.00	50.00	50.00	0.898	0.898	1.00

7A

VOLATILE CONTINUING CALIBRATION CHECK

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

Case No.: WSI-LE CARPENTER RFW Lot: 9011L775

Instrument ID: 5100Y Calibration Date: 12/06/90 Time: 1014

Lab File ID: Y120603 Init. Calib. Date(s): 11/29/90 11/29/90

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

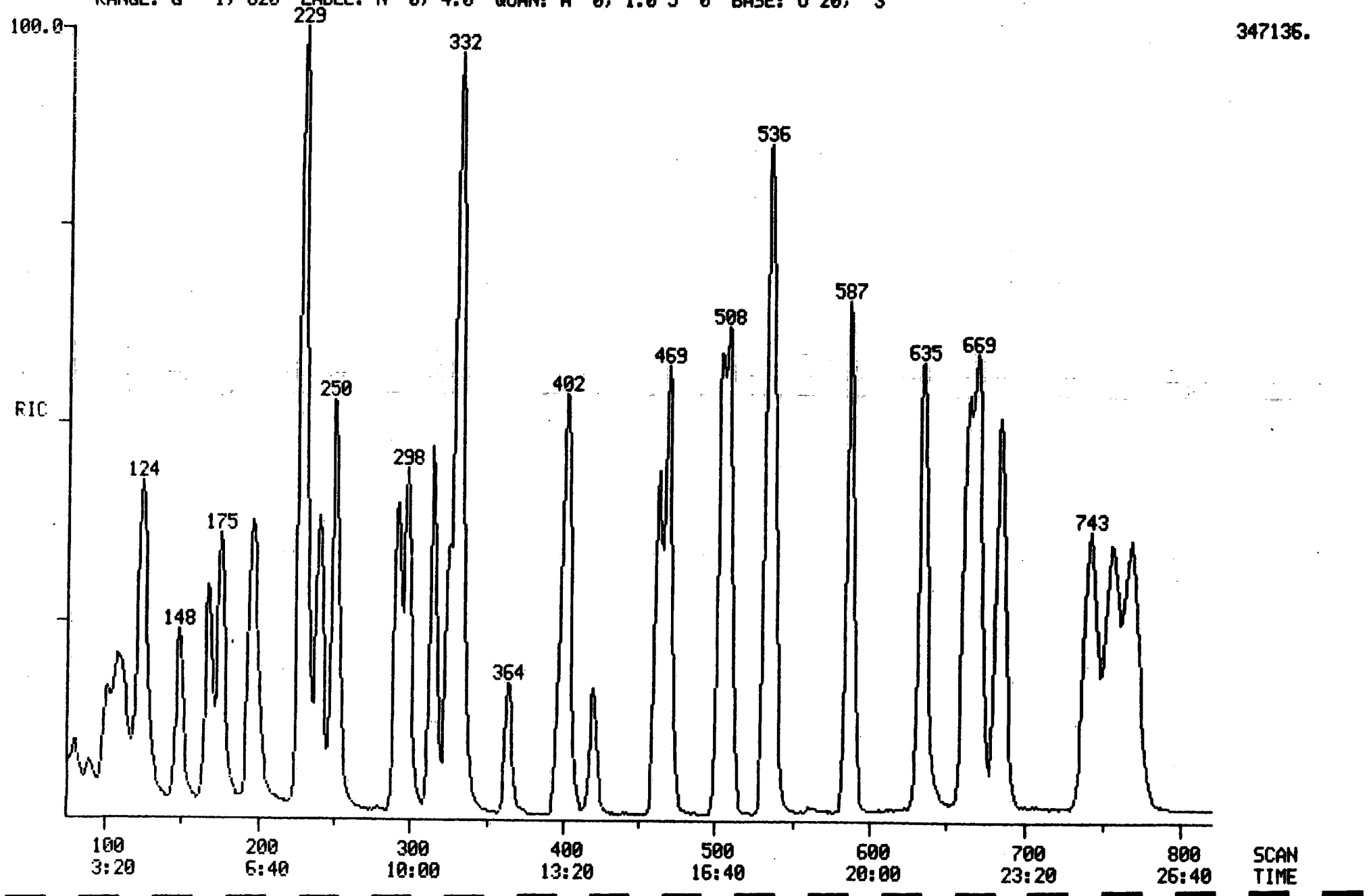
Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.347	0.443	-27.7	#
Bromomethane		1.027	1.332	-29.7	
Vinyl Chloride	*	1.412	1.278	9.5	*
Chloroethane		1.223	1.208	1.2	
Methylene Chloride		2.783	1.718	38.3	
1,1-Dichloroethene	*	1.504	1.290	14.2	*
1,1-Dichloroethane	#	3.852	2.921	24.2	#
1,2-Dichloroethene (total)		1.828	1.559	14.7	
Chloroform	*	4.318	3.964	8.2	*
1,2-Dichloroethane		3.145	3.014	4.2	
1,1,1-Trichloroethane		0.611	0.822	-34.5	
Carbon Tetrachloride		0.480	0.634	-32.1	
Bromodichloromethane		0.736	0.890	-20.9	
1,2-Dichloropropane	*	0.478	0.459	4.0	*
cis-1,3-Dichloropropene		0.683	0.751	-10.0	
Trichloroethene		0.435	0.427	1.8	
Dibromochloromethane		0.526	0.520	1.1	
1,1,2-Trichloroethane		0.366	0.361	1.4	
Benzene		1.096	1.235	-12.7	
Trans-1,3-Dichloropropene		0.533	0.589	-10.5	
2-chloroethylvinylether		0.292	0.249	14.7	
Bromoform	#	0.353	0.326	7.6	#
Tetrachloroethene		0.407	0.398	2.2	
1,1,2,2-Tetrachloroethane	#	0.703	0.645	8.3	#
Toluene	*	0.837	0.885	-5.7	*
Chlorobenzene	#	0.968	0.973	-0.5	#
Ethylbenzene	*	0.492	0.480	2.4	*
1,2-Dichlorobenzene		0.795	0.796	-0.1	
1,3-Dichlorobenzene		0.830	0.826	0.5	
1,4-Dichlorobenzene		0.795	0.767	3.5	
Acrolein		0.192	0.175	8.9	
Acrylonitrile		0.570	0.388	31.9	
Trichlorofluoromethane		3.063	3.370	-10.0	
Xylene (total)		0.540	0.559	-3.5	
Toluene-d8		1.133	1.210	-6.8	
Bromofluorobenzene		0.833	0.906	-8.8	
1,2-Dichloroethane-d4		2.699	2.629	2.6	

RIC
12/06/99 10:14:00
SAMPLE: VSTD50 /50PPB
CONDS.: VO/5100Y
RANGE: G 1, 820 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: Y120603 #1
CALI: Y120603 #2

SCANS 75 TO 820



Quantitation Report File: Y120603

Data: Y120603.TI
12/06/90 10:14:00
Sample: VSTD50 /50PPB
Conds.: VO/5100Y
Formula: Y120602 Instrument: 5100Y Weight: 0.001
Submitted by: Y120602 Analyst: JBD Acct. No.: 120690

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	
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		CIS-1,3-DICHLOROPROPENE	
26	87V	TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30		TRANS-1,3-DICHLOROPROPENE	
31	19V	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	XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	125	4:10	1	1.000	A BB	64005.	50.000 UG/L	2.08
2	65	195	6:30	1	1.560	A BB	168296.	50.000 UG/L	2.08
3	50	29	0:58	1	0.232	A BB	28348.	50.000 UG/L	2.08
4	94	37	1:14	1	0.296	A BB	85272.	50.000 UG/L	2.08
5	62	45	1:30	1	0.360	A BB	81799.	50.000 UG/L	2.08
6	64	49	1:38	1	0.392	A BB	77311.	50.000 UG/L	2.08
7	84	68	2:16	1	0.544	A BB	109954.	50.000 UG/L	2.08
8	43	80	2:40	1	0.640	A BB	41479.	50.000 UG/L	2.08
9	56	82	2:44	1	0.656	A BB	11207.	50.000 UG/L	2.08
10	76	101	3:22	1	0.808	A BB	246310.	50.000 UG/L	2.08
11	101	110	3:40	1	0.880	A BB	215715.	50.000 UG/L	2.08
12	53	90	3:00	1	0.720	A VB	24829.	50.000 UG/L	2.08
13	96	122	4:04	1	0.976	A BB	82544.	50.000 UG/L	2.08
14	63	148	4:56	1	1.184	A BB	186951.	50.000 UG/L	2.08
15	96	167	5:34	1	1.336	A BB	99770.	50.000 UG/L	2.08
16	83	175	5:50	1	1.400	A BB	253727.	50.000 UG/L	2.08
17	62	197	6:34	1	1.576	A BB	192899.	50.000 UG/L	2.08
18	114	403	13:26	18	1.000	A BB	305502.	50.000 UG/L	2.08
19	72	201	6:42	18	0.499	A BB	14710.	50.000 UG/L	2.08
20	97	230	7:40	18	0.571	A BB	251235.	50.000 UG/L	2.08
21	117	240	8:00	18	0.596	A VB	193764.	50.000 UG/L	2.08
22	43	250	8:20	18	0.620	A BB	189650.	50.000 UG/L	2.08
23	83	251	8:22	18	0.623	A BB	271938.	50.000 UG/L	2.08
24	63	292	9:44	18	0.725	A BB	140317.	50.000 UG/L	2.08
25	75	298	9:56	18	0.739	A BB	275201.	60.000 UG/L	2.50
26	130	315	10:30	18	0.782	A BB	130341.	50.000 UG/L	2.08
27	129	325	10:50	18	0.806	A BB	158861.	50.000 UG/L	2.08
28	97	331	11:02	18	0.821	A BB	110228.	50.000 UG/L	2.08
29	78	332	11:04	18	0.824	A BB	377345.	50.000 UG/L	2.08
30	75	333	11:06	18	0.826	A BB	143866.	40.000 UG/L	1.67
31	63	364	12:08	18	0.903	A BB	76130.	50.000 UG/L	2.08
32	173	398	13:16	18	0.988	A BB	99724.	50.000 UG/L	2.08
33	117	534	17:48	33	1.000	A BB	288347.	50.000 UG/L	2.08
34	98	504	16:48	33	0.944	A BB	348899.	50.000 UG/L	2.08
35	95	634	21:08	33	1.187	A BB	261282.	50.000 UG/L	2.08
36	43	420	14:00	33	0.787	A BB	99198.	50.000 UG/L	2.08
37	43	463	15:26	33	0.867	A BB	85602.	50.000 UG/L	2.08
38	164	469	15:38	33	0.878	A BB	114632.	50.000 UG/L	2.08
39	83	463	15:26	33	0.867	A BB	185977.	50.000 UG/L	2.08
40	92	509	16:58	33	0.953	A BB	255120.	50.000 UG/L	2.08
41	112	537	17:54	33	1.006	A BB	280615.	50.000 UG/L	2.08
42	106	587	19:34	33	1.099	A BB	138441.	50.000 UG/L	2.08
43	104	663	22:06	33	1.242	A BB	301729.	50.000 UG/L	2.08
44	106	685	22:50	33	1.283	A BB	161195.	50.000 UG/L	2.08
45	146	742	24:44	33	1.390	A BV	238218.	50.000 UG/L	2.08
46	146	756	25:12	33	1.416	A VV	229616.	50.000 UG/L	2.08
47	146	768	25:36	33	1.438	A VB	221052.	50.000 UG/L	2.08
48	106	670	22:20	33	1.255	A BB	168069.	50.000 UG/L	2.08

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:10	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	6:30	1.00	1.560	1.00	50.00	50.00	2.629	2.629	1.00
3	0:58	1.00	0.232	1.00	50.00	50.00	0.443	0.443	1.00
4	1:14	1.00	0.296	1.00	50.00	50.00	1.332	1.332	1.00
5	1:30	1.00	0.360	1.00	50.00	50.00	1.278	1.278	1.00
6	1:38	1.00	0.392	1.00	50.00	50.00	1.208	1.208	1.00
7	2:16	1.00	0.544	1.00	50.00	50.00	1.718	1.718	1.00
8	2:40	1.00	0.640	1.00	50.00	50.00	0.648	0.648	1.00
9	2:44	1.00	0.656	1.00	50.00	50.00	0.175	0.175	1.00
10	3:22	1.00	0.808	1.00	50.00	50.00	3.848	3.848	1.00
11	3:40	1.00	0.880	1.00	50.00	50.00	3.370	3.370	1.00
12	3:00	1.00	0.720	1.00	50.00	50.00	0.388	0.388	1.00
13	4:04	1.00	0.976	1.00	50.00	50.00	1.290	1.290	1.00
14	4:56	1.00	1.184	1.00	50.00	50.00	2.921	2.921	1.00
15	5:34	1.00	1.336	1.00	50.00	50.00	1.559	1.559	1.00
16	5:50	1.00	1.400	1.00	50.00	50.00	3.964	3.964	1.00
17	6:34	1.00	1.576	1.00	50.00	50.00	3.014	3.014	1.00
18	13:26	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	6:42	1.00	0.499	1.00	50.00	50.00	0.048	0.048	1.00
20	7:40	1.00	0.571	1.00	50.00	50.00	0.822	0.822	1.00
21	8:00	1.00	0.596	1.00	50.00	50.00	0.634	0.634	1.00
22	8:20	1.00	0.620	1.00	50.00	50.00	0.621	0.621	1.00
23	8:22	1.00	0.623	1.00	50.00	50.00	0.890	0.890	1.00
24	9:44	1.00	0.725	1.00	50.00	50.00	0.459	0.459	1.00
25	9:56	1.00	0.739	1.00	60.00	60.00	0.751	0.751	1.00
26	10:30	1.00	0.782	1.00	50.00	50.00	0.427	0.427	1.00
27	10:50	1.00	0.806	1.00	50.00	50.00	0.520	0.520	1.00
28	11:02	1.00	0.821	1.00	50.00	50.00	0.361	0.361	1.00
29	11:04	1.00	0.824	1.00	50.00	50.00	1.235	1.235	1.00
30	11:06	1.00	0.826	1.00	40.00	40.00	0.589	0.589	1.00
31	12:08	1.00	0.903	1.00	50.00	50.00	0.249	0.249	1.00
32	13:16	1.00	0.988	1.00	50.00	50.00	0.326	0.326	1.00
33	17:48	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	16:48	1.00	0.944	1.00	50.00	50.00	1.210	1.210	1.00
35	21:08	1.00	1.187	1.00	50.00	50.00	0.906	0.906	1.00
36	14:00	1.00	0.787	1.00	50.00	50.00	0.344	0.344	1.00
37	15:26	1.00	0.867	1.00	50.00	50.00	0.297	0.297	1.00
38	15:38	1.00	0.878	1.00	50.00	50.00	0.398	0.398	1.00
39	15:26	1.00	0.867	1.00	50.00	50.00	0.645	0.645	1.00
40	16:58	1.00	0.953	1.00	50.00	50.00	0.885	0.885	1.00
41	17:54	1.00	1.006	1.00	50.00	50.00	0.973	0.973	1.00
42	19:34	1.00	1.099	1.00	50.00	50.00	0.480	0.480	1.00
43	22:06	1.00	1.242	1.00	50.00	50.00	1.046	1.046	1.00
44	22:50	1.00	1.283	1.00	50.00	50.00	0.559	0.559	1.00
45	24:44	1.00	1.390	1.00	50.00	50.00	0.826	0.826	1.00
46	25:12	1.00	1.416	1.00	50.00	50.00	0.796	0.796	1.00
47	25:36	1.00	1.438	1.00	50.00	50.00	0.767	0.767	1.00
48	22:20	1.00	1.255	1.00	50.00	50.00	0.583	0.583	1.00

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

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

Case No.: WSI-LE CARPENTER RFW Lot: 9011L775

Lab File ID (Standard): Y120502 Date Analyzed: 12/05/90

Instrument ID: 5100Y Time Analyzed: 0940

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	65594	4.00	343449	13.43	323664	17.80
	UPPER LIMIT	131188	4.50	686898	13.93	647328	18.30
	LOWER LIMIT	32797	3.50	171725	12.93	161832	17.30
	CLIENT SAMPLE NO.						
01	MW1	62182	4.37	318229	13.43	303743	17.80
02	MW2	65430	4.10	312784	13.40	302246	17.80
03	MW3DL	63217	4.13	309420	13.43	302603	17.80
04	MW4	69498	4.13	342606	13.40	324446	17.77
05	MW4MS	63597	4.03	304399	13.40	301799	17.80
06	MW4MSD	65326	4.13	329493	13.40	320954	17.80
07	MW5	66463	4.10	341690	13.43	316688	17.80
08	FIELD BLANK	65460	4.13	311310	13.40	294299	17.80
09	TRIP BLANK	66518	4.13	330394	13.43	313860	17.83
10	VBLKLVY242-MB1	67238	4.10	344267	13.40	313954	17.80

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.

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: 9011L775

Lab File ID (Standard): Y120603 Date Analyzed: 12/06/90

Instrument ID: 5100Y Time Analyzed: 1014

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	64005	4.17	305502	13.43	288347	17.80
	UPPER LIMIT	128010	4.67	611004	13.93	576694	18.30
	LOWER LIMIT	32003	3.67	152751	12.93	144174	17.30
	CLIENT SAMPLE NO.						
01	MW3	71566	4.13	381196	13.37	354911	17.73
02	VBLKLVY243-MB1	58904	4.17	311497	13.40	297061	17.77

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.

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

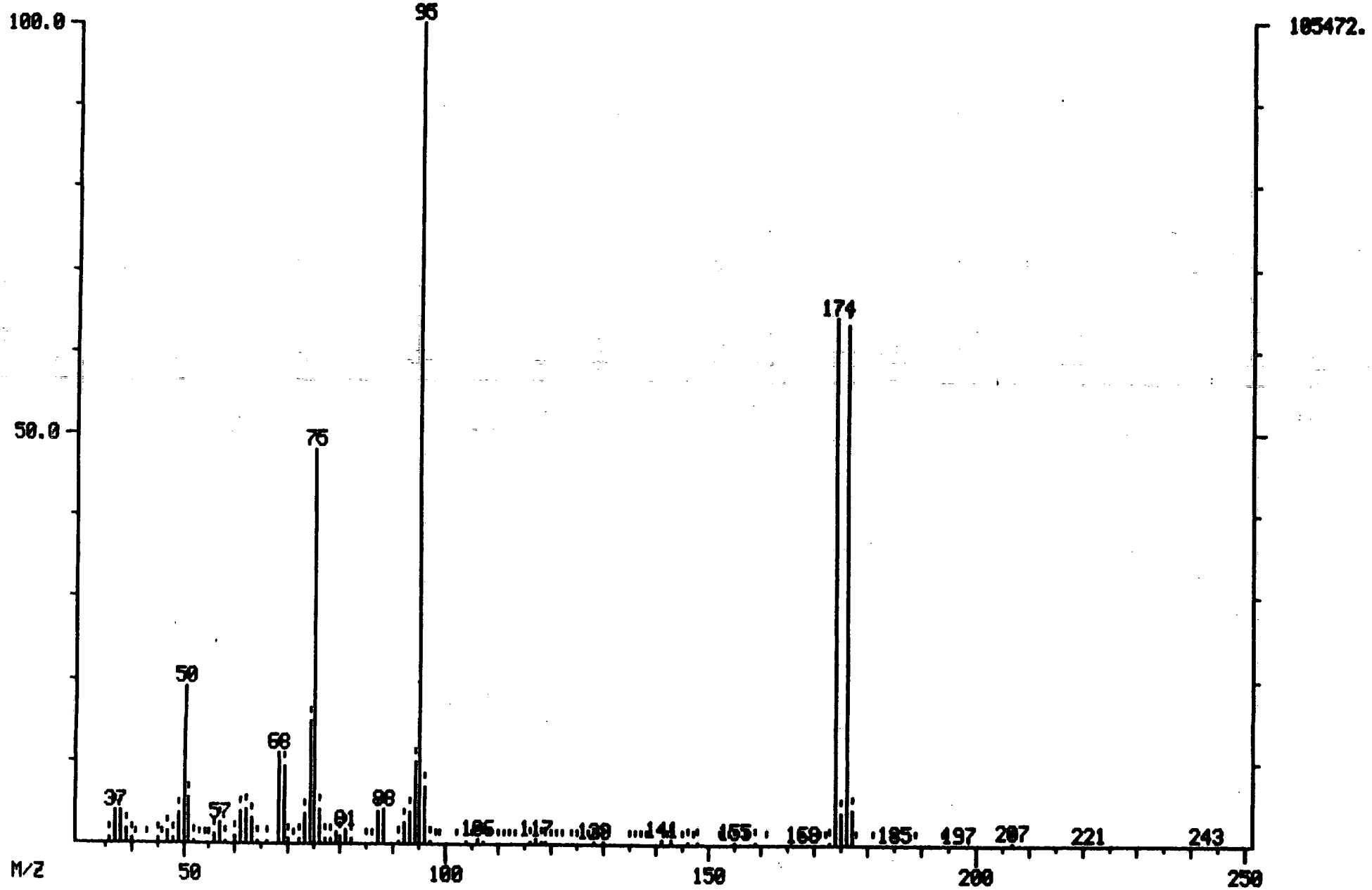
1. Tabulated Results (Form 1)
2. Raw Data
   a. Reconstructed Ion Chromatogram(s)
   b. Quantitation Report(s)

132

MASS SPECTRUM
11/29/90 11:08:00 + 4:30
SAMPLE: BFB 50NG
CONDS.: BF/5100Y
GC TEMP: 218 DEG. C
#132 TO #139 SUMMED - #144 TO #147 - #115 TO #124

DATA: Y112901 #135
CALI: Y112901 #2

BASE M/Z: 95
RIC: 451072.



Mass List
11/29/90 11:08:00 + 4:30
Sample: BFB 50NG
Conds.: BF/5100Y

Data: Y112901 # 135
Cali: Y112901 # 2

Base m/z: 95
RIC: 451072.

133

#132 to #139 Summed - #144 to #147 - #115 to #124

36 0.00 0.00 0. Minima Min inten: 29.
243 # 0 Maxima

Mass		% RA	% RIC	Inten.
36.00?	S	0.66	0.15	693.
37.00?	S	3.90	0.91	4112.
38.00?	S	3.80	0.89	4012.
39.00?	S	1.57	0.37	1654.
40.00?	S	0.46	0.11	485.
41.00?	S	0.04	0.01	42.
45.00?	S	0.42	0.10	439.
46.00?	S	0.12	0.03	130.
47.00?	S	1.35	0.32	1424.
48.00?	S	0.51	0.12	543.
49.00?	S	3.71	0.87	3916.
50.00?	S	19.14	4.48	20192.
51.00?	S	5.62	1.31	5928.
52.00?	S	0.18	0.04	189.
53.00?	S	0.12	0.03	127.
54.00?	S	0.08	0.02	83.
55.00?	S	0.11	0.03	121.
56.00?	S	1.11	0.26	1172.
57.00?	S	2.37	0.55	2500.
58.00?	S	0.22	0.05	235.
60.00?	S	0.75	0.18	792.
61.00?	S	3.85	0.90	4064.
62.00?	S	4.04	0.94	4256.
63.00?	S	3.00	0.70	3164.
64.00?	S	0.36	0.08	377.
66.00?	S	0.20	0.05	209.
68.00?	S	10.92	2.55	11520.
69.00	S	9.31	2.18	9824.
70.00	S	0.67	0.16	702.
71.00	S	0.07	0.02	79.
72.00	S	0.57	0.13	597.
73.00	S	3.71	0.87	3908.
74.00	S	14.79	3.46	15600.
75.00	S	48.18	11.27	50816.
76.00	S	4.18	0.98	4408.
77.00	S	0.53	0.12	559.
78.00	S	0.60	0.14	633.
79.00	S	1.49	0.35	1576.
80.00	S	0.74	0.17	783.
81.00	S	1.66	0.39	1750.
82.00	S	0.46	0.11	488.
85.00	S	0.13	0.03	141.
86.00	S	0.12	0.03	125.
87.00	S	3.88	0.91	4088.
88.00	S	4.04	0.95	4264.
91.00	S	0.35	0.08	369.
92.00	S	2.56	0.60	2704.
93.00	S	3.78	0.88	3988.
94.00	S	10.01	2.34	10560.
95.00	S	100.00	23.38	105472.

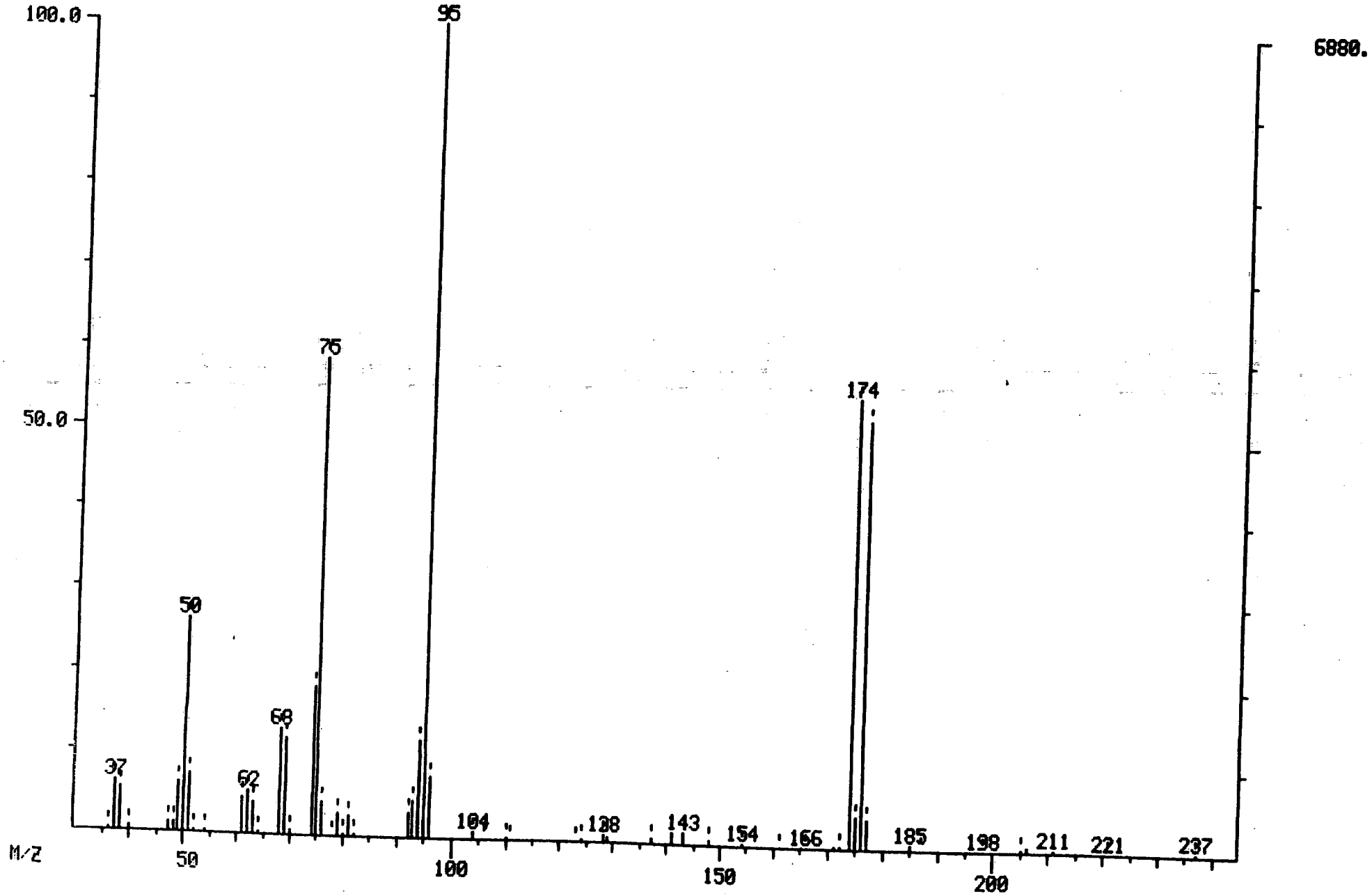
Mass		% RA	% RIC	Inten.
96.00	S	6.81	1.59	7184.
97.00	S	0.24	0.06	258.
99.00	S	0.08	0.02	85.
102.00	S	0.09	0.02	99.
104.00	S	0.36	0.08	381.
105.00	S	0.04	0.01	37.
106.00	S	0.42	0.10	441.
107.00	S	0.15	0.03	156.
108.00	S	0.04	0.01	40.
110.00	S	0.03	0.01	36.
111.00	S	0.07	0.02	73.
113.00	S	0.04	0.01	45.
116.00	S	0.30	0.07	321.
117.00	S	0.45	0.11	475.
118.00	S	0.27	0.06	288.
119.00	S	0.21	0.05	223.
122.00	S	0.07	0.02	73.
124.00	S	0.13	0.03	135.
125.00	S	0.04	0.01	43.
127.00	S	0.06	0.01	62.
128.00	S	0.32	0.07	335.
129.00	S	0.10	0.02	109.
130.00	S	0.29	0.07	307.
131.00	S	0.05	0.01	51.
135.00	S	0.03	0.01	34.
137.00	S	0.10	0.02	102.
139.00	S	0.13	0.03	141.
141.00	S	0.56	0.13	593.
143.00	S	0.45	0.10	471.
145.00	S	0.09	0.02	91.
146.00	S	0.17	0.04	177.
147.00	S	0.09	0.02	94.
148.00	S	0.17	0.04	176.
152.00	S	0.05	0.01	57.
153.00	S	0.04	0.01	40.
154.00	S	0.04	0.01	43.
155.00	S	0.19	0.04	197.
156.00		0.04	0.01	37.
157.00	S	0.13	0.03	139.
159.00	S	0.14	0.03	151.
161.00	S	0.11	0.03	116.
168.00	S	0.04	0.01	47.
171.00	S	0.03	0.01	32.
173.00	S	0.20	0.05	211.
174.00	S	64.20	15.01	67712.
175.00	S	3.82	0.89	4024.
176.00	S	63.23	14.78	66688.
177.00	S	4.18	0.98	4408.
178.00	S	0.04	0.01	41.
207.00	S	0.15	0.04	159.

134

MASS SPECTRUM
12/05/90 9:20:00 + 4:24
SAMPLE: BFB 50NG
CONDS.: BF/5100Y
GC TEMP: 218 DEG. C
#132 - #100

DATA: Y120501 #132
CALI: Y120501 #2

BASE M/Z: 95
RIC: 29664.



Mass List
12/05/90 9:20:00 + 4:24
Sample: BFB 50NG
Conds.: BF/5100Y
#132 - #100

Data: Y120501 # 132
Cali: Y120501 # 2

Base m/z: 95
RIC: 29664.

135

36 0.00 0.00 0. Minima Min inten: 0.
237 # 0 Maxima

Mass		% RA	% RIC	Inten.
36.00?	S	0.33	0.08	23.
37.00?	S	6.02	1.40	414.
38.00?	S	5.13	1.19	353.
40.00?	S	0.52	0.12	36.
47.00?	S	1.15	0.27	79.
48.00?	S	1.16	0.27	80.
49.00?	S	5.94	1.38	409.
50.00?	S	26.37	6.12	1814.
51.00?	S	7.09	1.65	488.
52.00?	S	0.35	0.08	24.
54.00?	S	0.33	0.08	23.
61.00?	S	4.51	1.05	310.
62.00?	S	5.17	1.20	356.
63.00?	S	3.95	0.92	272.
64.00?	S	0.25	0.06	17.
68.00?	S	12.94	3.00	890.
69.00	S	11.95	2.77	822.
70.00	S	0.60	0.14	41.
74.00	S	18.31	4.25	1260.
75.00	S	58.60	13.59	4032.
76.00	S	4.14	0.96	285.
78.00	S	0.06	0.01	4.
79.00	S	2.72	0.63	187.
80.00	S	0.26	0.06	18.
81.00	S	2.59	0.60	178.
82.00	S	0.16	0.04	11.
92.00	S	3.02	0.70	208.
93.00	S	4.43	1.03	305.
94.00	S	11.92	2.76	820.
95.00	S	100.00	23.19	6880.
96.00	S	7.47	1.73	514.
104.00	S	0.70	0.16	48.
106.00	S	0.12	0.03	8.
110.00	S	0.32	0.07	22.
111.00	S	0.04	0.01	3.
123.00	S	0.04	0.01	3.
124.00	S	0.20	0.05	14.
128.00	S	0.80	0.19	55.
129.00	S	0.44	0.10	30.
137.00	S	0.65	0.15	45.
141.00	S	1.28	0.30	88.
143.00		1.42	0.33	98.
148.00	S	0.44	0.10	30.
154.00	S	0.32	0.07	22.
161.00	S	0.13	0.03	9.
166.00	S	0.07	0.02	5.
171.00		0.25	0.06	17.
172.00	S	0.16	0.04	11.
174.00	S	54.88	12.73	3776.
175.00	S	3.87	0.90	266.

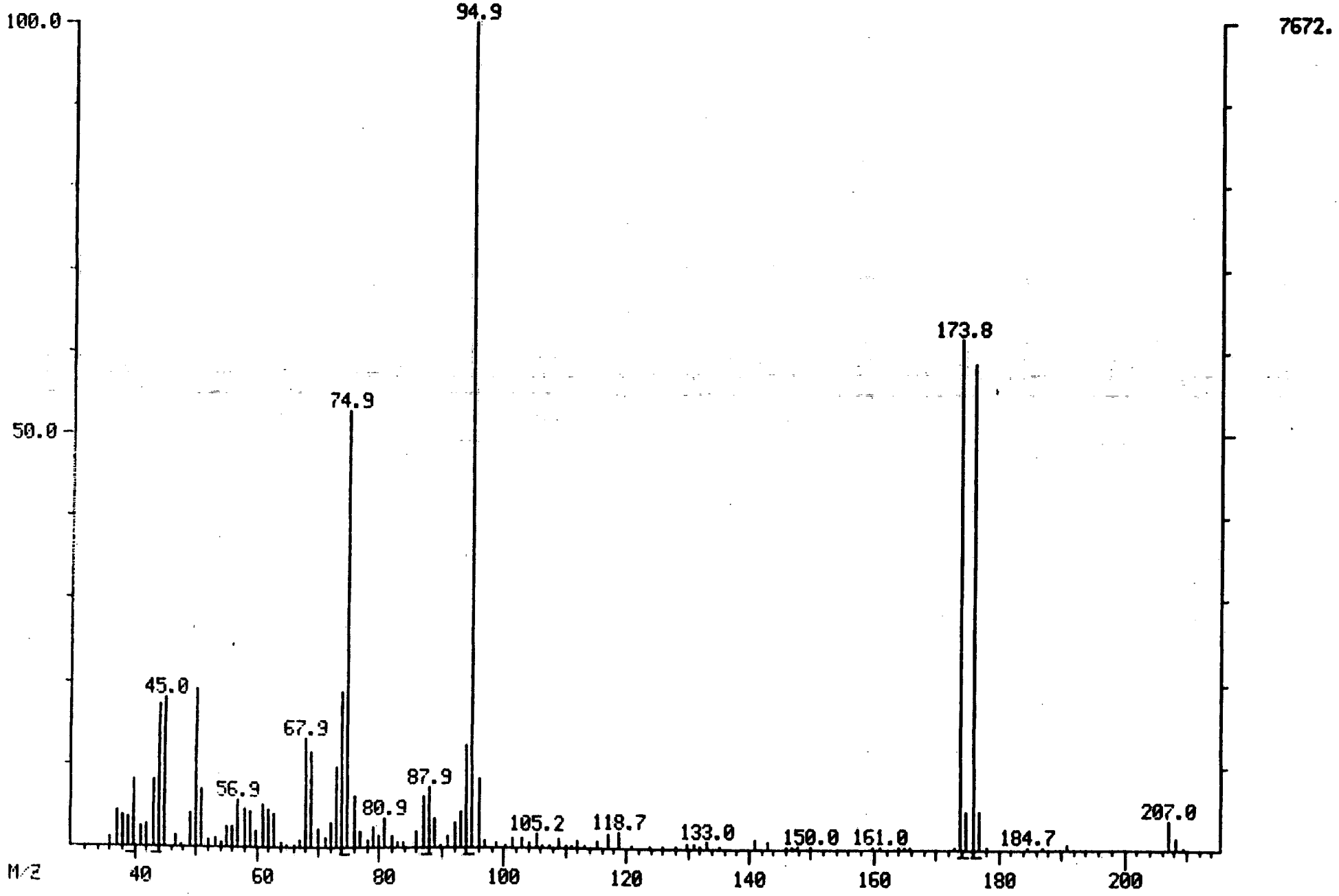
Mass		% RA	% RIC	Inten.
176.00	S	52.33	12.14	3600.
177.00	S	3.46	0.80	238.
185.00		0.49	0.11	34.
187.00	S	0.04	0.01	3.
198.00	S	0.04	0.01	3.
205.00	S	0.35	0.08	24.
206.00		0.54	0.12	37.
211.00		0.16	0.04	11.
221.00	S	0.06	0.01	4.
237.00	S	0.15	0.03	10.

13C

MASS SPECTRUM
12/06/90 9:59:00 + 4:22
SAMPLE: BFB 50NG
CONDS.: BF/5100Y
GC TEMP: 218 DEG. C

DATA: Y120602 #131
CALI: Y120602 #2

BASE M/Z: 95
RIC: 43968.



Mass List
12/06/90 9:59:00 + 4:22
Sample: BFB 50NG
Conds.: BF/5100Y

Data: Y120602 # 131
Cali: Y120602 # 2

Base m/z: 95
RIC: 43968.

36 0.00 0.00 0. Minima Min inten: 13.
209 # 0 Maxima

Mass	% RA	% RIC	Inten.	Mass	% RA	% RIC	Inten.
35.98? M	0.98	0.17	75.	88.95	3.56	0.62	273.
37.00? M	4.28	0.75	328.	89.81 M	0.35	0.06	27.
38.00?	3.88	0.68	298.	90.97 M	1.34	0.23	103.
38.99?F	3.44	0.60	264.	91.98	3.01	0.53	231.
39.92?F	8.08	1.41	620.	92.93	4.38	0.76	336.
41.02? M	2.48	0.43	190.	93.94 F	12.34	2.15	947.
42.03?	2.74	0.48	210.	94.95 F	100.00	17.45	7672.
42.98?F	8.08	1.41	620.	95.95	8.42	1.47	646.
43.96?F	17.13	2.99	1314.	96.99 M	0.69	0.12	53.
44.98?	18.09	3.16	1388.	98.64 M	0.47	0.08	36.
46.68? M	1.45	0.25	111.	100.15	0.18	0.03	14.
47.66?	0.17	0.03	13.	101.37 M	0.99	0.17	76.
48.98?	4.05	0.71	311.	102.91	1.08	0.19	83.
49.96?	19.08	3.33	1464.	103.95 M	0.63	0.11	48.
50.94?	7.00	1.22	537.	105.24 M	1.73	0.30	133.
52.07? M	0.80	0.14	61.	107.43 M	0.35	0.06	27.
53.16? M	1.04	0.18	80.	109.01 M	0.98	0.17	75.
54.03? M	0.46	0.08	35.	110.04	0.17	0.03	13.
54.93?	2.29	0.40	176.	111.01 M	0.34	0.06	26.
55.96?	2.40	0.42	184.	112.02 M	0.77	0.13	59.
56.93?	5.62	0.98	431.	113.02	0.18	0.03	14.
57.95?	4.67	0.81	358.	115.27 M	0.91	0.16	70.
58.97?	4.43	0.77	340.	116.93 M	1.73	0.30	133.
59.92?	1.98	0.35	152.	118.73 M	1.94	0.34	149.
60.96? M	5.19	0.91	398.	120.98	0.17	0.03	13.
61.95?	4.54	0.79	348.	123.71	0.18	0.03	14.
62.93?	4.08	0.71	313.	125.94	0.20	0.03	15.
63.97? M	0.60	0.10	46.	127.91	0.33	0.06	25.
65.03?	0.23	0.04	18.	129.75 M	0.61	0.11	47.
66.05?	0.27	0.05	21.	130.89 M	0.63	0.11	48.
67.04? M	0.94	0.16	72.	133.00 M	0.68	0.12	52.
67.92?	13.18	2.30	1011.	135.28 M	0.35	0.06	27.
68.92	11.56	2.02	887.	140.91 M	1.00	0.18	77.
70.09 M	2.09	0.36	160.	142.89 M	0.72	0.13	55.
71.06	1.12	0.20	86.	146.98	0.22	0.04	17.
71.98 M	2.97	0.52	228.	147.87	0.23	0.04	18.
72.96	9.80	1.71	752.	149.95 M	0.34	0.06	26.
73.93 F	18.74	3.27	1438.	161.00	0.20	0.03	15.
74.94 F	52.66	9.19	4040.	164.89	0.17	0.03	13.
75.97 M	6.27	1.09	481.	165.78	0.17	0.03	13.
76.98	1.84	0.32	141.	172.81	0.26	0.05	20.
78.10 M	0.86	0.15	66.	173.81 F	61.63	10.75	4728.
78.86	2.48	0.43	190.	174.84 F	4.68	0.82	359.
79.97 M	1.46	0.25	112.	175.81 F	58.71	10.24	4504.
80.88	3.48	0.61	267.	176.84 F	4.59	0.80	352.
81.88 M	1.46	0.25	112.	177.92 M	0.30	0.05	23.
82.99 M	0.63	0.11	48.	184.72	0.17	0.03	13.
83.83 M	0.53	0.09	41.	190.89 M	0.50	0.09	38.
85.97	1.80	0.31	138.	206.95 M	3.44	0.60	264.
86.93 F	6.15	1.07	472.	208.34 M	1.26	0.22	97.
87.92 F	7.36	1.29	565.	209.25	0.17	0.03	13.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK 138

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 90LVY242-MB1

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

Lab File ID: Y120503

Level: (low/med) LOW

Date Received: 12/05/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

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	5	
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 130

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 90LVY242-MB1

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

Lab File ID: Y120503

Level: (low/med) LOW

Date Received: 12/05/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

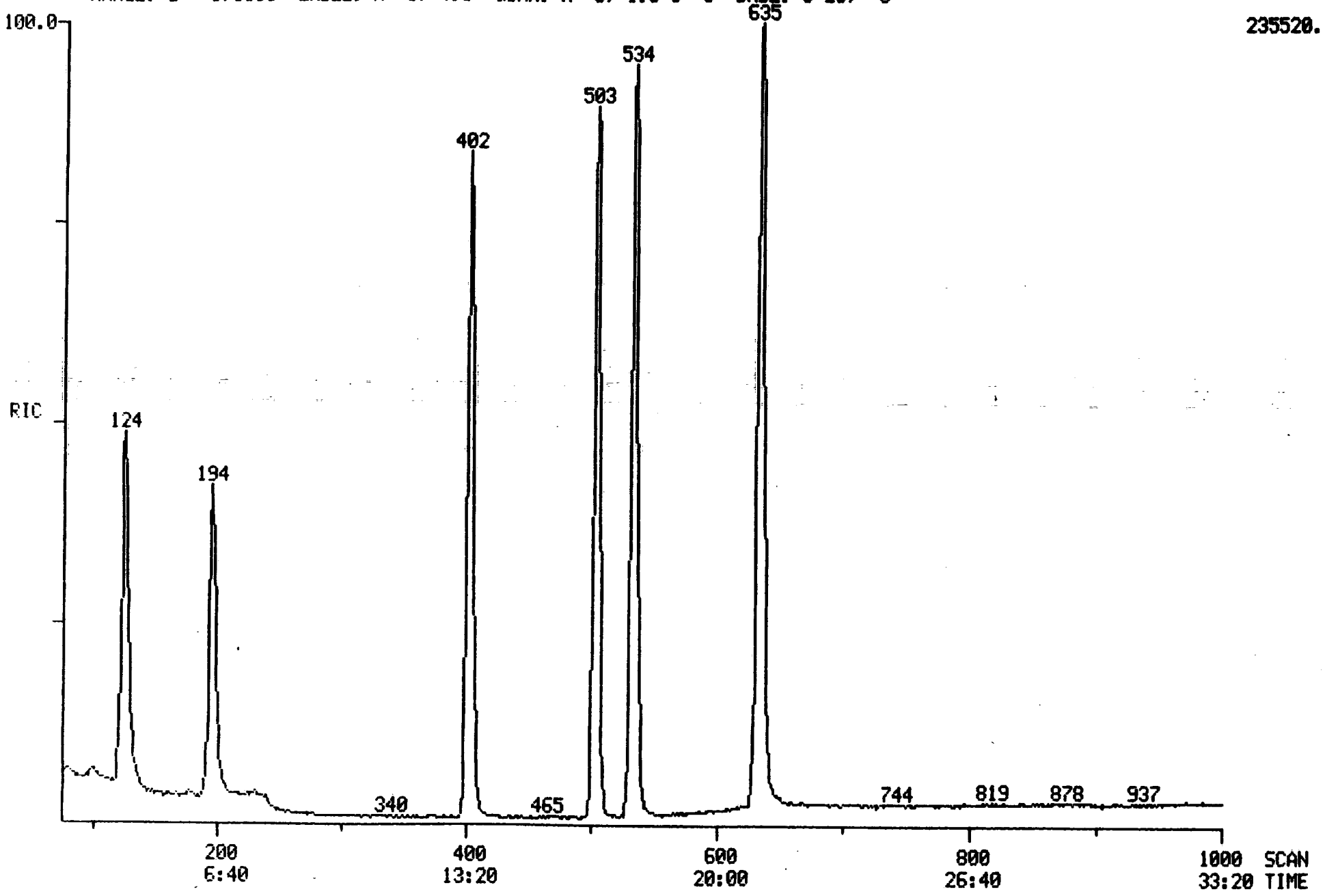
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

140

RIC
12/05/90 10:53:00
SAMPLE: 90LVY242-MB1/VYBK/5.0 ML
CONDS.: VO/5100Y
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: Y120503 #1
CALI: Y120503 #2

SCANS 75 TO 1000



Quantitation Report File: Y120503

Data: Y120503.TI
12/05/90 10:53:00
Sample: 90LVY242-MB1/VYBK/5.0 ML
Conds.: VO/5100Y
Formula: Y120501 Instrument: 5100Y Weight: 0.001
Submitted by: Y120501 Analyst: JBD Acct. No.: 120590

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	
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		CIS-1,3-DICHLOROPROPENE	
26	87V	TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30		TRANS-1,3-DICHLOROPROPENE	
31	19V	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	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	123	4:06	1	1.000	A BB	67238.	50.000 UG/L	15.95
2	65	194	6:28	1	1.577	A BB	224501.	46.841 UG/L	14.94
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	67	2:14	1	0.545	A BB	13453.	5.429 UG/L	1.73
8	43	79	2:38	1	0.642	A BB	3761.	3.286 UG/L	1.05 <10%
9	56	82	2:44	1	0.667	A BB	325.	0.966 UG/L	0.31
10	76	100	3:20	1	0.813	A BB	17186.	2.988 UG/L	0.95 <10%
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	62	197	6:34	1	1.602	A BB	391.	0.065 UG/L	0.02
18	114	402	13:24	18	1.000	A BB	344267.	50.000 UG/L	15.95
19	72	202	6:44	18	0.502	A VB	1117.	3.072 UG/L	0.98
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	534	17:48	33	1.000	A BB	313954.	50.000 UG/L	15.95
34	98	503	16:46	33	0.942	A BB	373600.	50.388 UG/L	16.08
35	95	634	21:08	33	1.187	A BB	280897.	50.410 UG/L	16.08
36	NOT FOUND								
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								

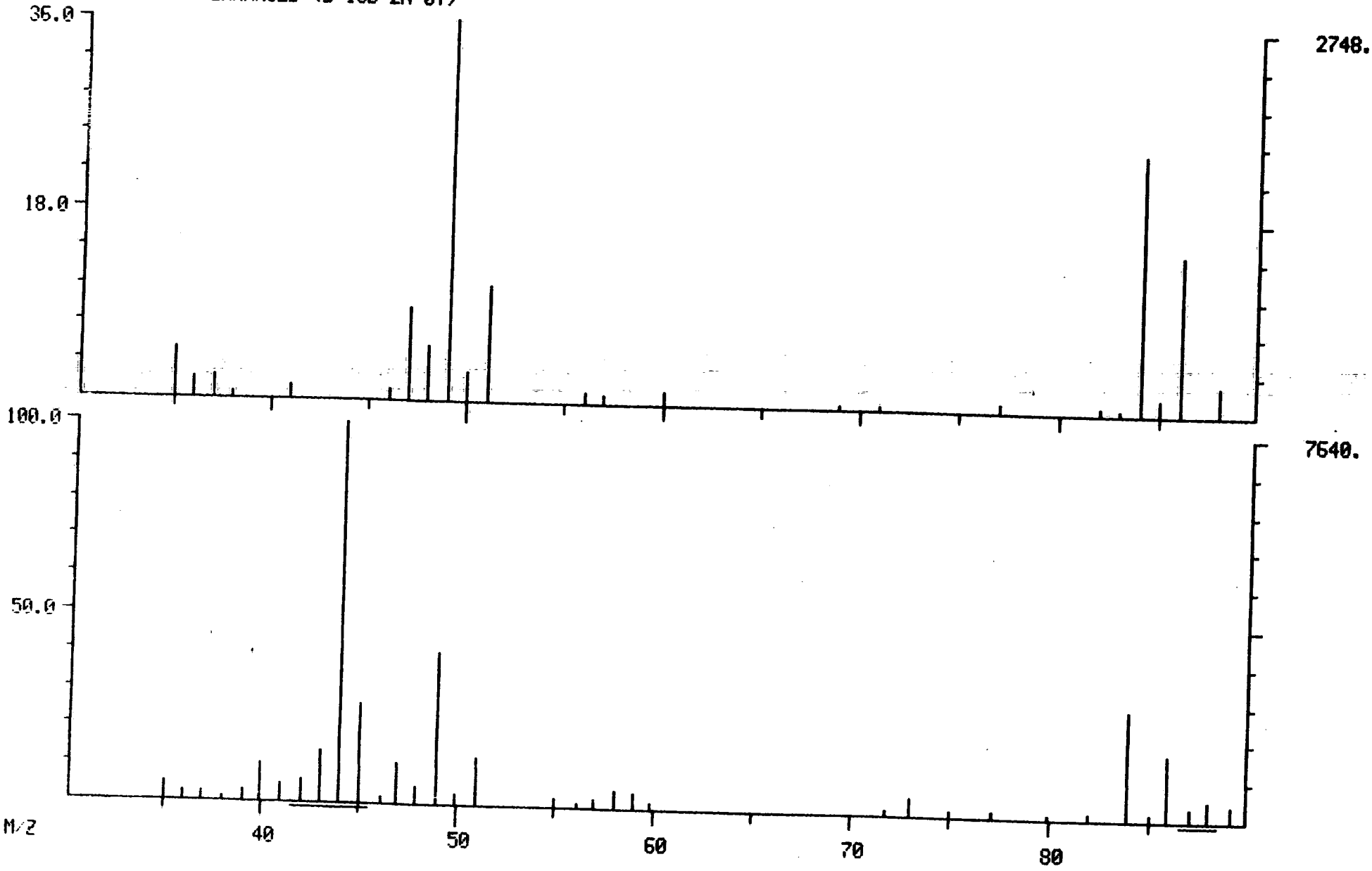
142

JBD 01/03/90

DUAL MASS SPECTRUM
12/05/90 10:53:00 + 2:14
SAMPLE: 90LVY242-MB1/VYBK/5.0 ML
CONDS.: VO/5100Y
GC TEMP: 79 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120503 #67
CALI: Y120503 #2

BASE M/Z: 49/ 44
RIC: 9583./ 25951.

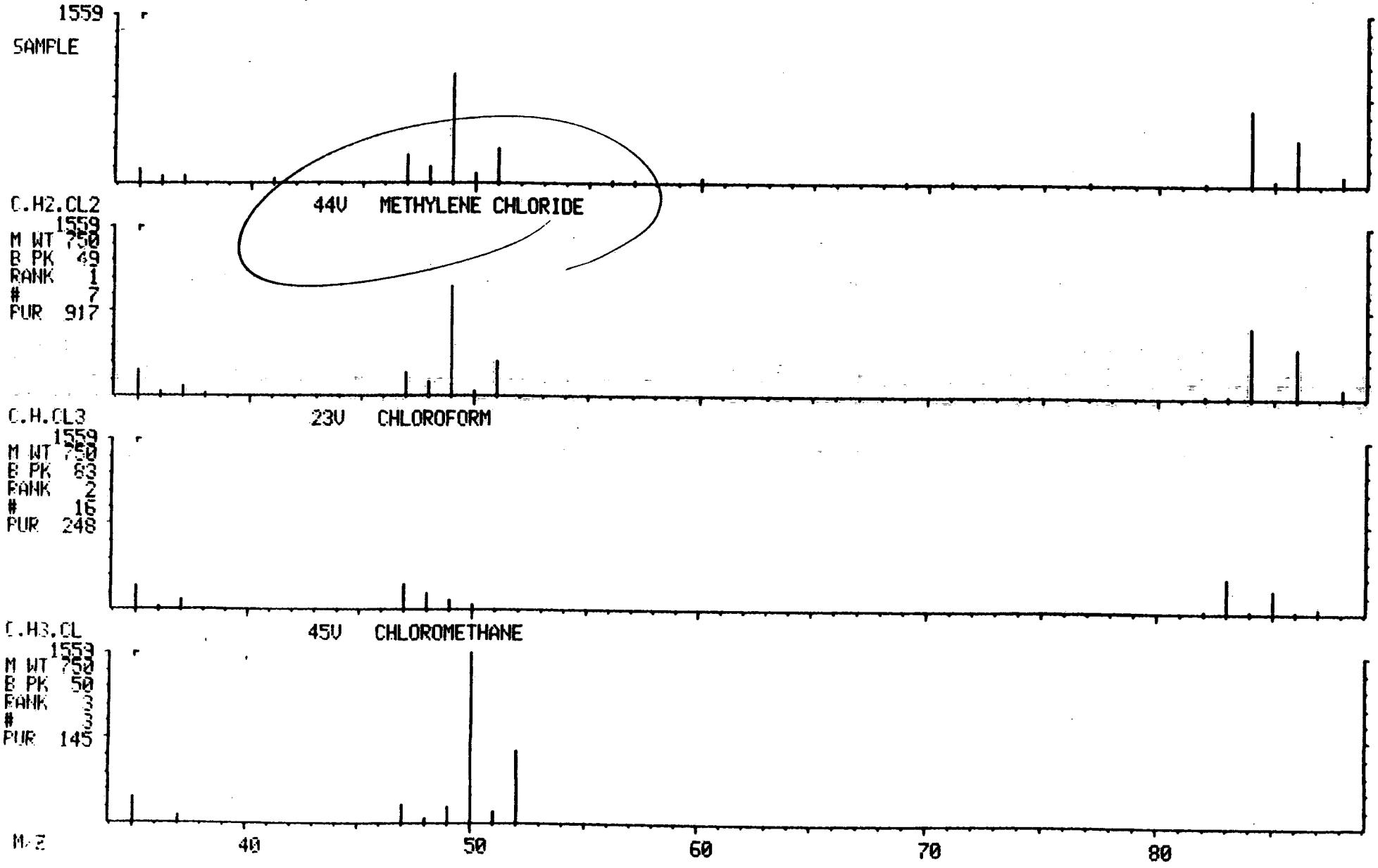


141

LIBRARY SEARCH
12/05/90 10:53:00 + 2:14
SAMPLE: 90LVY242-MB1/VYBK/5.0 ML
CONDS.: VO/5100Y
ENHANCED (S 15B 2N 0T)

DATA: Y120503 # 67
CALI: Y120503 # 2

BASE M/Z: 49
RIC: 9391.



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK 145

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 90LVY243-MB1

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

Lab File ID: Y120604

Level: (low/med) LOW

Date Received: 12/06/90

% Moisture: not dec. _____

Date Analyzed: 12/06/90

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	
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 146

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 90LVY243-MB1

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

Lab File ID: Y120604

Level: (low/med) LOW

Date Received: 12/06/90

% Moisture: not dec. _____

Date Analyzed: 12/06/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

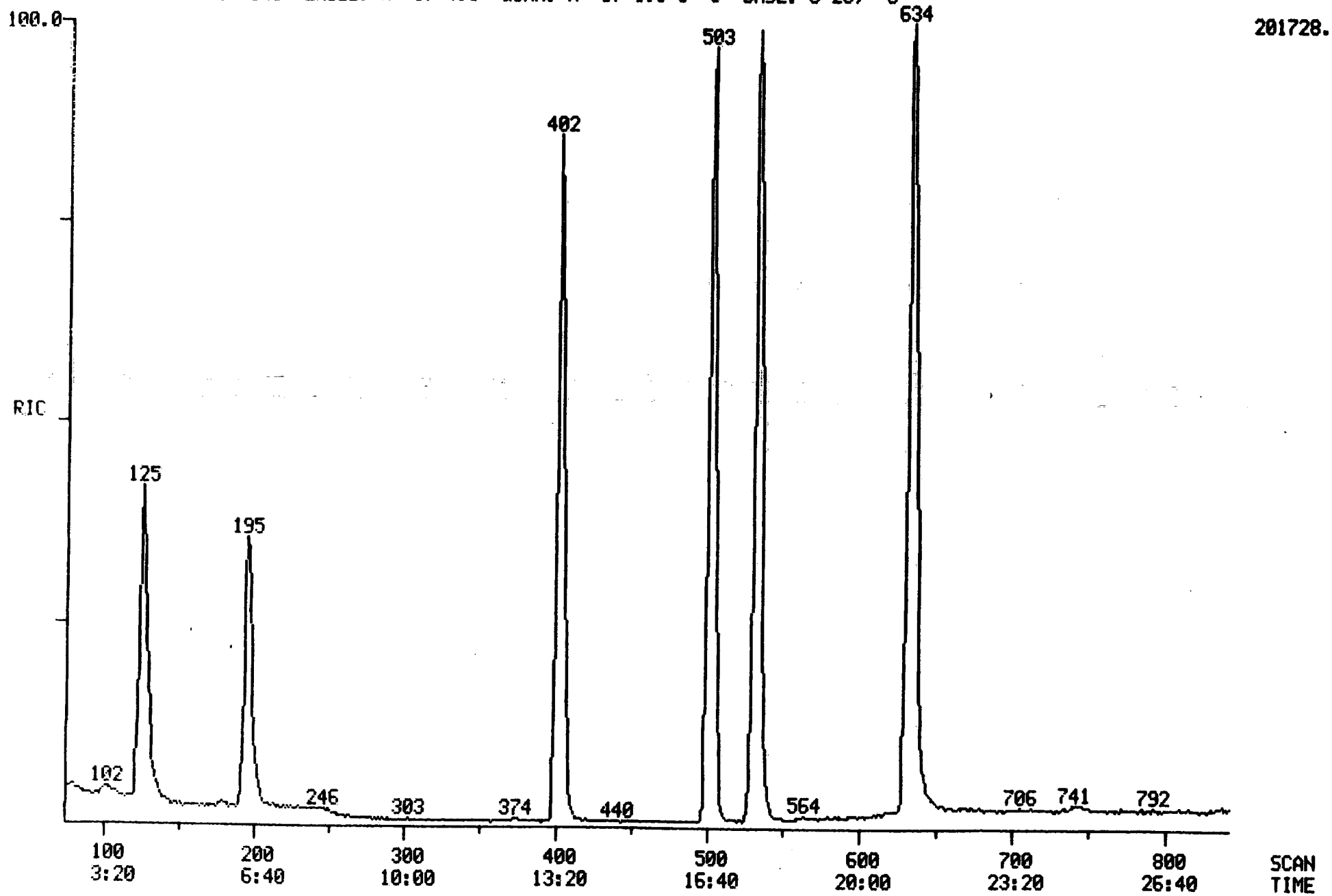
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

147

RIC
12/06/99 11:15:00
SAMPLE: 90LVY243-MB1/VYBK/5.0 ML
CONDS.: VO/5100Y
RANGE: G 1, 841 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: Y120604 #1
CALI: Y120604 #2

SCANS 75 TO 841



Quantitation Report File: Y120604

Data: Y120604.TI
12/06/90 11:15:00
Sample: 90LVY243-MB1/VYBK/5.0 ML
Conds.: VO/5100Y
Formula: Y120602 Instrument: 5100Y Weight: 0.001
Submitted by: Y120602 Analyst: JBD Acct. No.: 120690

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	
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		CIS-1,3-DICHLOROPROPENE	
26	87V	TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30		TRANS-1,3-DICHLOROPROPENE	
31	19V	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	XYLENE

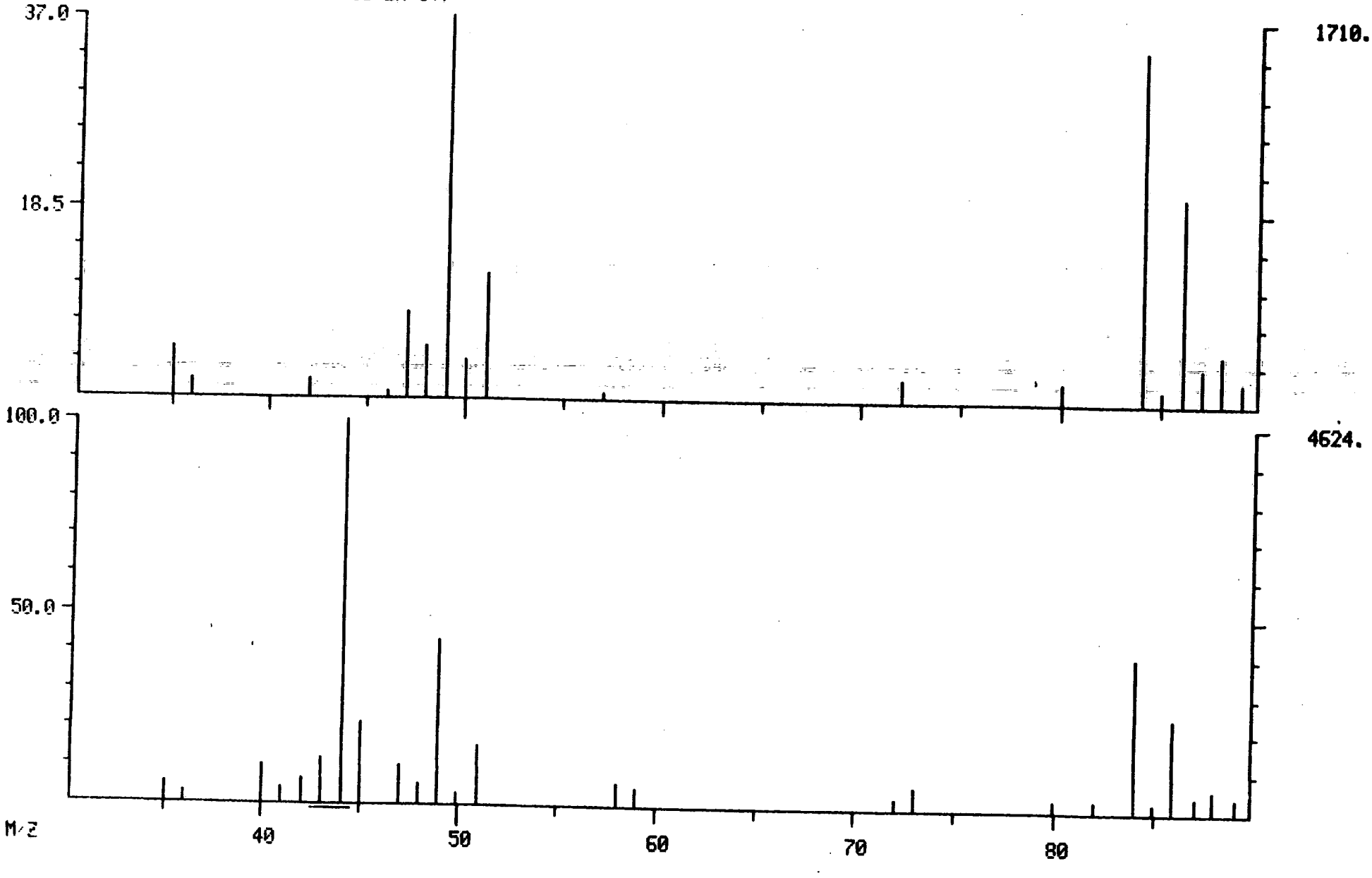
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	125	4:10	1	1.000	A BB	58904.	50.000 UG/L	15.71
2	65	195	6:30	1	1.560	A BB	163338.	52.729 UG/L	16.57
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	68	2:16	1	0.544	A BB	11825.	5.843 UG/L	1.84
8	43	81	2:42	1	0.648	A BB	3837.	5.026 UG/L	1.58 <10%
9	NOT FOUND								
10	76	101	3:22	1	0.808	A BB	12228.	2.697 UG/L	0.85 <10%
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	114	402	13:24	18	1.000	A BB	311497.	50.000 UG/L	15.71
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	43	245	8:10	18	0.609	A*VB	732.	0.189 UG/L	0.06
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	533	17:46	33	1.000	A BB	297061.	50.000 UG/L	15.71
34	98	503	16:46	33	0.944	A BB	363795.	50.605 UG/L	15.90
35	95	634	21:08	33	1.189	A BB	271815.	50.490 UG/L	15.86
36	43	420	14:00	33	0.788	A BB	1392.	0.681 UG/L	0.21
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	92	507	16:54	33	0.951	A BB	221.	0.042 UG/L	0.01
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								

J 60 01/03/90

DUAL MASS SPECTRUM
12/06/90 11:15:00 + 2:16
SAMPLE: 90LVY243-MB1/VYBK/5.0 ML
CONDS.: VO/5100Y
GC TEMP: 79 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: Y120604 #68
CALI: Y120604 #2

BASE M/Z: 49/ 44
RIC: 6759./ 15999.

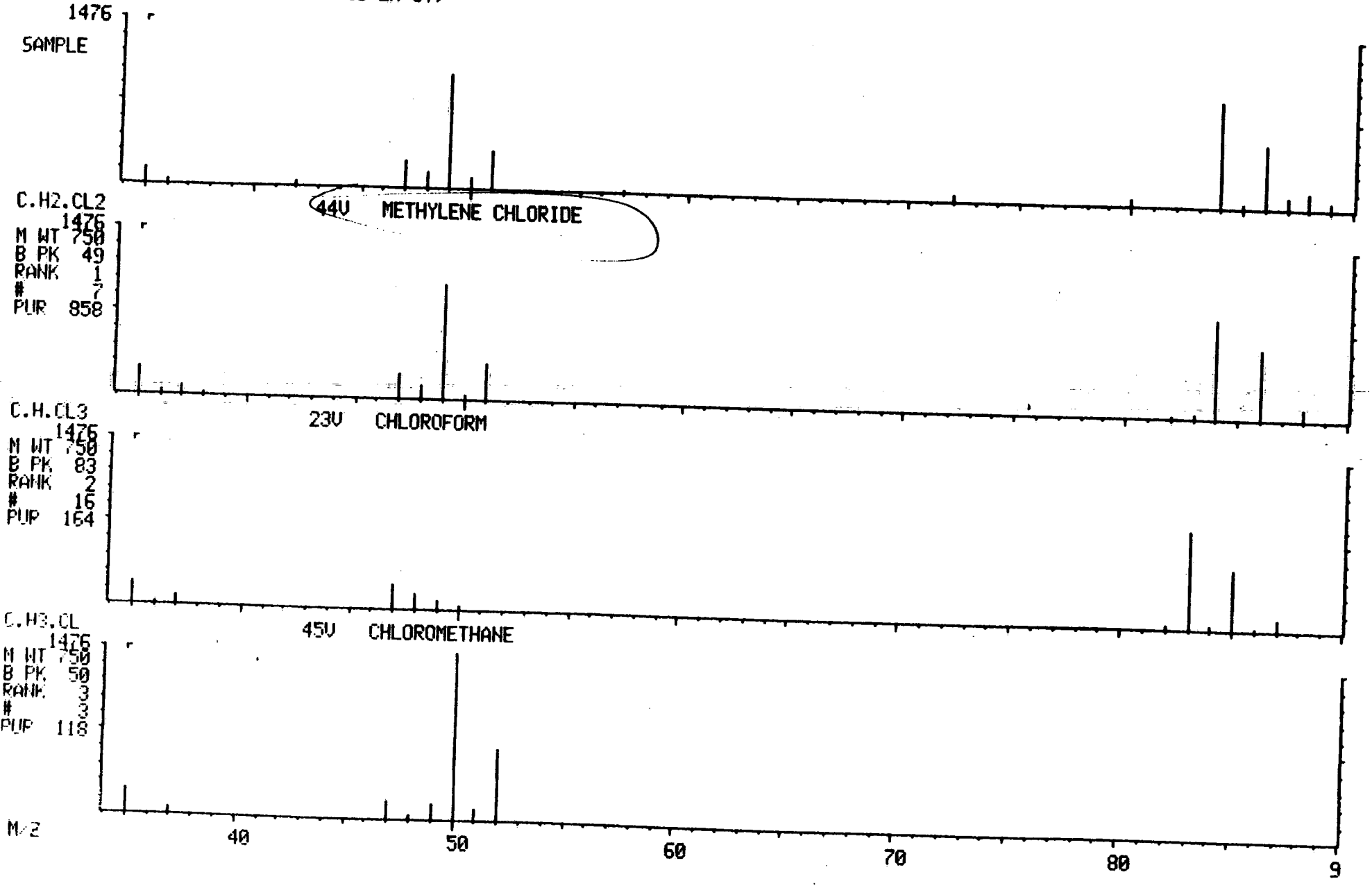


151

LIBRARY SEARCH
12/06/90 11:15:00 + 2:16
SAMPLE: 90LVY243-MB1/VYBK/5.0 ML
CONDS.: VO/5100Y
ENHANCED (S 15B 2N 0T)

DATA: Y120604 # 68
CALI: Y120604 # 2

BASE M/Z: 49
RIC: 6727.



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

~~152~~

MW4MS

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-004 MS

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

Lab File ID: Y120512

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

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	34	B
75-35-4	1,1-Dichloroethene		S
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		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
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		S
108-90-7	Chlorobenzene		S
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

S: SPIKE COMPOUND

FORM 1 V-1

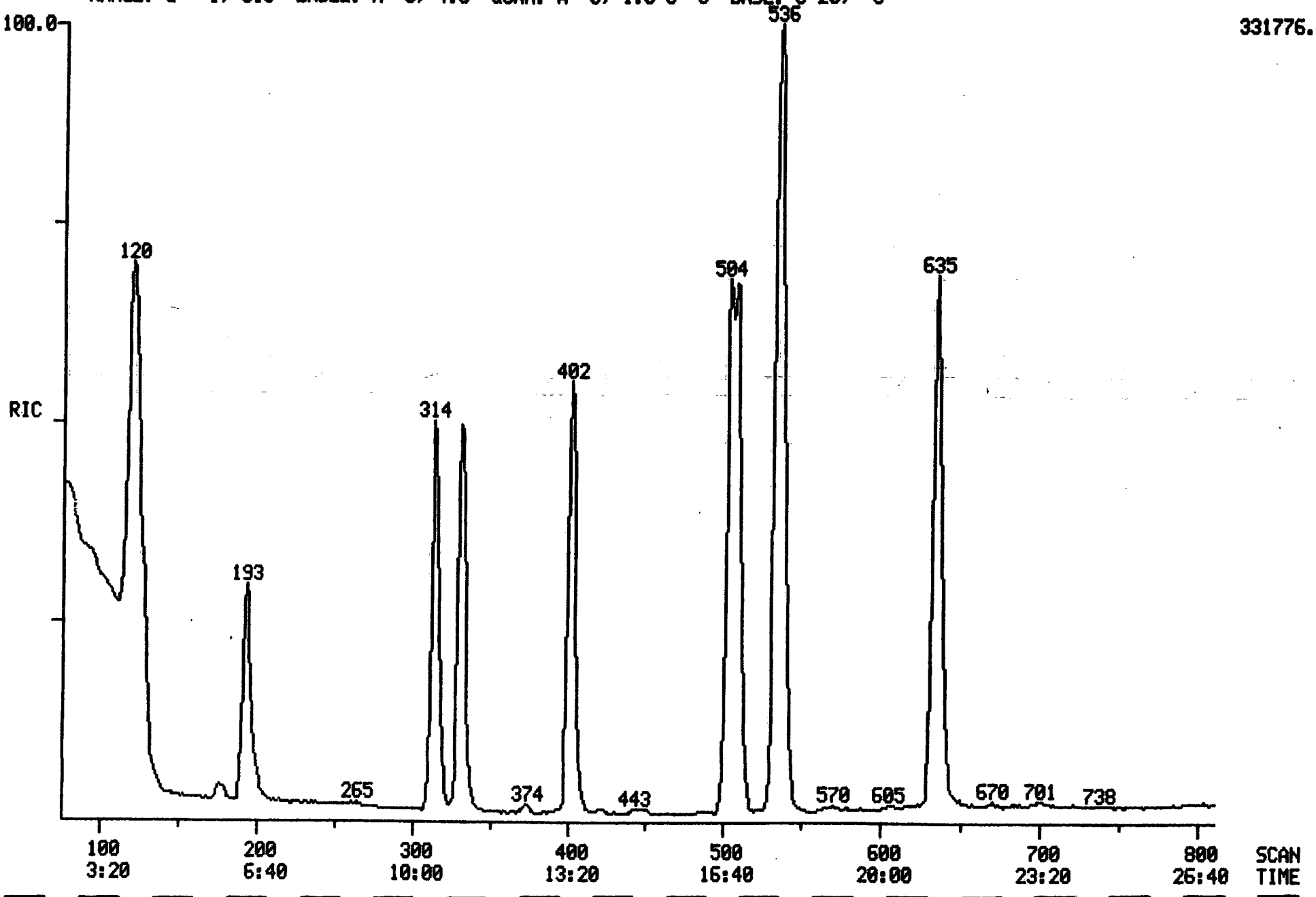
12/88 Rev.

153

RIC
12/05/96 18:15:00 S 160 113MD
SAMPLE: 9011L775-004T/WSI LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
RANGE: G 1, 810 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: Y120512 #1
CALI: Y120512 #2

SCANS 75 TO 810



Quantitation Report File: Y120512

Data: Y120512.TI
12/05/90 18:15:00
Sample: 9011L775-004T/WSI LE CARPENTER/5.0 ML
Conds.: VO/5100Y
Formula: Y120501 Instrument: 5100Y Weight: 0.002
Submitted by: Y120501 Analyst: JBD Acct. No.: 120590

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	
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5		ACETONITRILE	
6	88V	VINYL CHLORIDE	
7	16V	CHLOROETHANE	
8	44V	METHYLENE CHLORIDE	
9	13H	ACETONE	
10	21H	ACROLEIN	
11	15H	CARBON DISULFIDE	
12	24H	TRICHLOROFLUOROMETHANE	
13	22H	ACRYLONITRILE	
14	29V	1,1-DICHLOROETHYLENE	
15	13V	1,1-DICHLOROETHANE	
16		1,2-DICHLOROETHENE (TOTAL)	
17	23V	CHLOROFORM	
18	10V	1,2-DICHLOROETHANE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	14H	2-BUTANONE	
21	11V	1,1,1-TRICHLOROETHANE	
22	6V	CARBON TETRACHLORIDE	
23	19H	VINYL ACETATE	
24	48V	BROMODICHLOROMETHANE	
25	32V	1,2-DICHLOROPROPANE	
26		CIS-1,3-DICHLOROPROPENE	
27	87V	TRICHLOROETHYLENE	
28	51V	DIBROMOCHLOROMETHANE	
29	14V	1,1,2-TRICHLOROETHANE	
30	4V	BENZENE	
31		TRANS-1,3-DICHLOROPROPENE	
32	19V	2-CHLOROETHYLVINYLETHER	
33	47V	BROMOFORM	
34	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
35	SS2	TOLUENE D8	SURROGATE STANDARD #2
36	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
37	17H	4-METHYL-2-PENTANONE	
38	16H	2-HEXANONE	
39	85V	TETRACHLOROETHYLENE	
40	15V	1,1,2,2-TETRACHLOROETHANE	
41	86V	TOLUENE	
42	7V	CHLOROBENZENE	
43	38V	ETHYLBENZENE	
44	18H	STYRENE	
45		XYLENES (TOTAL)	
46	26B	1,3-DICHLOROBENZENE	
47	25B	1,2-DICHLOROBENZENE	

No	Name
48	27B 1,4-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	121	4:02	1	1.000	A BB	63597.	50.000 UG/L	8.38
2	65	193	6:26	1	1.595	A BB	224467.	49.515 UG/L	8.29
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	84	64	2:08	1	0.529	A BB	80489.	34.344 UG/L	5.75
9	43	77	2:34	1	0.636	A BB	26314.	24.306 UG/L	4.07
10	NOT FOUND								
11	76	97	3:14	1	0.802	A BB	17232.	3.167 UG/L	0.53
12	101	107	3:34	1	0.884	A BB	1254.	0.235 UG/L	0.04
13	NOT FOUND								
14	96	118	3:56	1	0.975	A BB	97665.	50.460 UG/L	8.45
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	114	402	13:24	19	1.000	A BB	304399.	50.000 UG/L	8.38
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	130	314	10:28	19	0.781	A BB	130743.	45.010 UG/L	7.54
28	NOT FOUND								
29	NOT FOUND								
30	78	331	11:02	19	0.823	A BB	339220.	47.966 UG/L	8.04
31	75	331	11:02	19	0.823	A BB	8504.	2.739 UG/L	0.46
32	NOT FOUND								
33	NOT FOUND								
34	117	534	17:48	34	1.000	A BB	301799.	50.000 UG/L	8.38
35	98	504	16:48	34	0.944	A BB	351156.	49.268 UG/L	8.25
36	95	635	21:10	34	1.189	A BB	270139.	50.432 UG/L	8.45
37	43	421	14:02	34	0.788	A VB	2621.	0.896 UG/L	0.15
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	92	509	16:58	34	0.953	A BB	235946.	43.615 UG/L	7.31
42	112	537	17:54	34	1.006	A BB	287646.	44.744 UG/L	7.50
43	NOT FOUND								
44	NOT FOUND								
45	106	686	22:52	34	1.285	A BB	937.	0.283 UG/L	0.05
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								

JSD 01/03/90

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW4MSD 156

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

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9011L775-004 MSD

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

Lab File ID: Y120511

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/05/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

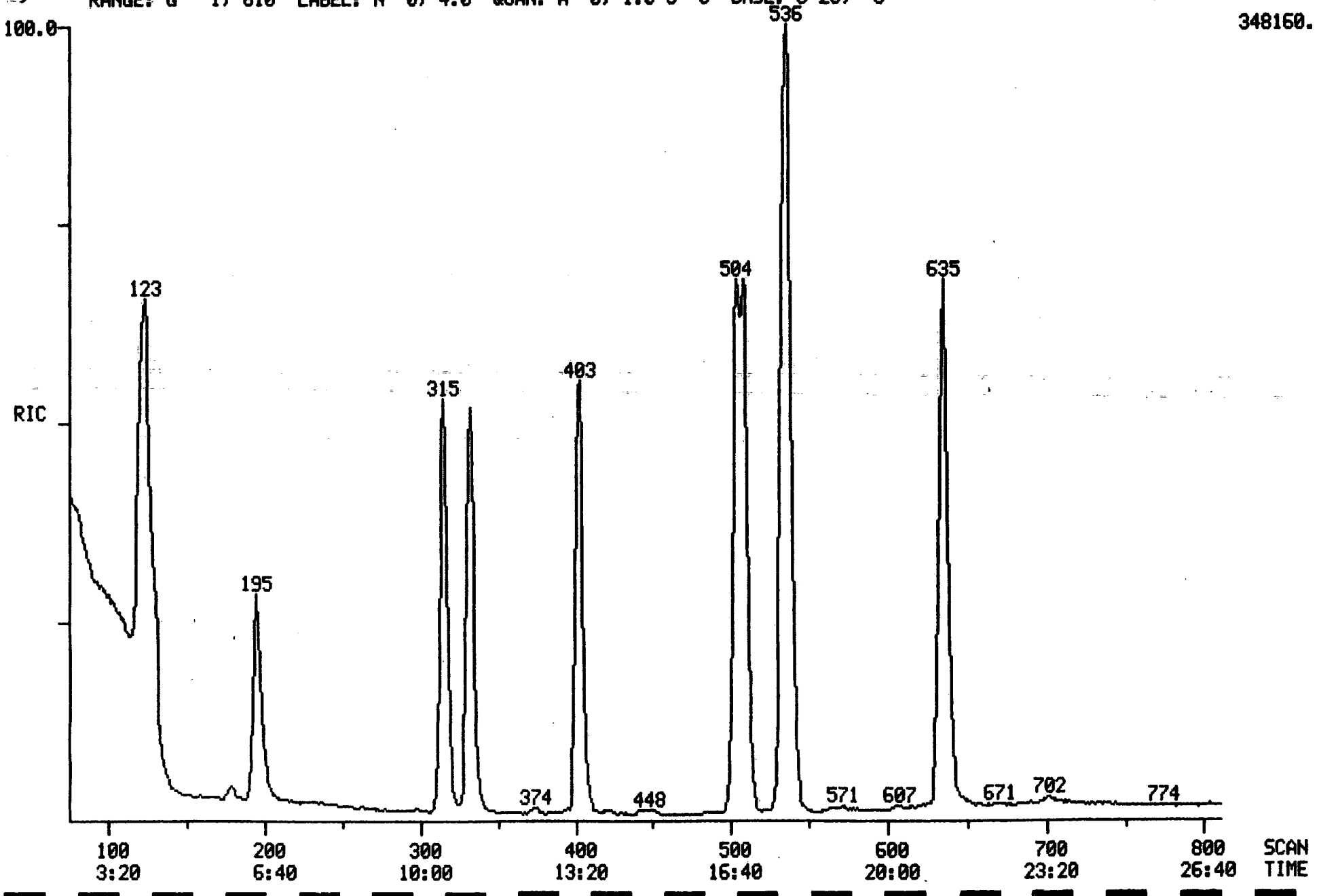
CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	28	B
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	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		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
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		S
108-90-7	Chlorobenzene		S
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

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

RIC DATA: Y120511 #1 SCANS 75 TO 810
12/05/90 17:32:00 CALI: Y120511 #2
SAMPLE: 9011L775-004T/WSI LE CARPENTER/5.0 ML
CONDS.: VO/5100Y
RANGE: G 1, 810 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: Y120511

Data: Y120511.TI
12/05/90 17:32:00
Sample: 9011L775-004T/WSI LE CARPENTER/5.0 ML
Conds.: VO/5100Y
Formula: Y120501 Instrument: 5100Y Weight: 0.002
Submitted by: Y120501 Analyst: JBD Acct. No.: 120590

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	
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5		ACETONITRILE	
6	88V	VINYL CHLORIDE	
7	16V	CHLOROETHANE	
8	44V	METHYLENE CHLORIDE	
9	13H	ACETONE	
10	21H	ACROLEIN	
11	15H	CARBON DISULFIDE	
12	24H	TRICHLOROFLUOROMETHANE	
13	22H	ACRYLONITRILE	
14	29V	1,1-DICHLOROETHYLENE	
15	13V	1,1-DICHLOROETHANE	
16		1,2-DICHLOROETHENE (TOTAL)	
17	23V	CHLOROFORM	
18	10V	1,2-DICHLOROETHANE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	14H	2-BUTANONE	
21	11V	1,1,1-TRICHLOROETHANE	
22	6V	CARBON TETRACHLORIDE	
23	19H	VINYL ACETATE	
24	48V	BROMODICHLOROMETHANE	
25	32V	1,2-DICHLOROPROPANE	
26		CIS-1,3-DICHLOROPROPENE	
27	87V	TRICHLOROETHYLENE	
28	51V	DIBROMOCHLOROMETHANE	
29	14V	1,1,2-TRICHLOROETHANE	
30	4V	BENZENE	
31		TRANS-1,3-DICHLOROPROPENE	
32	19V	2-CHLOROETHYLVINYLETHER	
33	47V	BROMOFORM	
34	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
35	SS2	TOLUENE D8	SURROGATE STANDARD #2
36	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
37	17H	4-METHYL-2-PENTANONE	
38	16H	2-HEXANONE	
39	85V	TETRACHLOROETHYLENE	
40	15V	1,1,2,2-TETRACHLOROETHANE	
41	86V	TOLUENE	
42	7V	CHLOROBENZENE	
43	38V	ETHYLBENZENE	
44	18H	STYRENE	
45		XYLENES (TOTAL)	
46	26B	1,3-DICHLOROBENZENE	
47	25B	1,2-DICHLOROBENZENE	

No	Name
48	27B 1,4-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	124	4:08	1	1.000	A BB	65326.	50.000 UG/L	8.24
2	65	195	6:30	1	1.573	A BB	227855.	48.933 UG/L	8.07
3	NOT FOUND								
4	NOT FOUND								
5	41	43	1:26	1	0.347	A VB	975.	5.912 UG/L	0.97
6	NOT FOUND								
7	NOT FOUND								
8	84	68	2:16	1	0.548	A BB	66347.	27.560 UG/L	4.54
9	43	80	2:40	1	0.645	A BB	36390.	32.724 UG/L	5.40
10	NOT FOUND								
11	76	100	3:20	1	0.806	A BB	18485.	3.308 UG/L	0.55
12	101	110	3:40	1	0.887	A BB	269.	0.049 UG/L	0.01
13	NOT FOUND								
14	96	120	4:00	1	0.968	A BB	104116.	52.369 UG/L	8.63
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	114	402	13:24	19	1.000	A BB	329493.	50.000 UG/L	8.24
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	130	315	10:30	19	0.784	A BB	143076.	45.505 UG/L	7.50
28	NOT FOUND								
29	NOT FOUND								
30	78	332	11:04	19	0.826	A BB	368311.	48.113 UG/L	7.93
31	75	332	11:04	19	0.826	A BB	9063.	2.697 UG/L	0.44
32	NOT FOUND								
33	NOT FOUND								
34	117	534	17:48	34	1.000	A BB	320954.	50.000 UG/L	8.24
35	98	504	16:48	34	0.944	A BB	375470.	49.536 UG/L	8.17
36	95	635	21:10	34	1.189	A BB	284709.	49.980 UG/L	8.24
37	43	421	14:02	34	0.788	A VB	2946.	0.947 UG/L	0.16
38	43	464	15:28	34	0.869	A BV	1519.	0.580 UG/L	0.10
39	NOT FOUND								
40	NOT FOUND								
41	92	509	16:58	34	0.953	A BB	251788.	43.766 UG/L	7.22
42	112	537	17:54	34	1.006	A BB	304479.	44.536 UG/L	7.34
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								

JGP 01/03/90

VI. Addition Documentation

A. Extraction Record

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SAMPLE PREP RECORD

Sheet no.: 1

Extract. Date: 12/05/90 Extraction Batch No: 90LVY242 Analyst: JD Method: N/A

Test: O624 Cleanup Date: Analyst: Client: WSI-LE CARPENTER

LIMS Report Date: 01/24/91 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
9011L775-	WSI-LE CARPENTER										
001 P	MW1	7.00	5	1.0		5		1.0	N		1.0
002 P	MW2	7.00	5	1.0		5		1.0	N		1.0
003 P D1	MW3	7	5	1.0		5		1.0	N		1.0
004 P	MW4	7.00	5	1.0		5		1.0	N		1.0
004 PS	MW4	7.00	5	1.0	1.0	5		1.0	N		1.0
004 PT	MW4	7.00	5	1.0	1.0	5		1.0	N		1.0
005 P	MW5	7.00	5	1.0		5		1.0	N		1.0
006 P	FIELD BLANK	7.00	5	1.0		5		1.0	N		1.0
007 P	TRIP BLANK	7.00	5	1.0		5		1.0	N		1.0
90LVY242-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

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SAMPLE PREP RECORD

Sheet no.: 1

Extract. Date: 12/06/90 Extraction Batch No: 90LVY243 Analyst: JD Method: N/A

Test: 0624 Cleanup Date: Analyst: Client: TEXAS WATER COMMISSION

LIMS Report Date: 01/24/91 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
9011L756-	TEXAS WATER COMMISSION										
001 P	TR1-MW5-15	7.00	5	1.0		5		1.0	N		1.0
001 P D1	TR1-MW5-15	7.00	3	1.0		5		1.0	N		1.7
002 P	TR1-MW6-15	7.00	5	1.0		5		1.0	N		1.0
003 P	TR1-MW10-15	7.00	5	1.0		5		1.0	N		1.0
003 PS	TR1-MW10-15	7.00	5	1.0	1.0	5		1.0	N		1.0
004 P	TR1-MW11-15	7.00	5	1.0		5		1.0	N		1.0
005 P	TR1-FLD-BLK	7.00	5	1.0		5		1.0	N		1.0
9011L775-	WSI-LE CARPENTER										
003 P	MW3	7	5	1.0		5		1.0	N		1.0
9011L789-	BECHTEL-386										
019 H	118-VP-0055	7	5	1.0		5		1.0	N		1.0
020 H	118-VP-0056	7	5	1.0		5		1.0	N		1.0
90LVY243-MB1 H		7	5	1.0		5		1.0	N		1.0
90LVY243-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

END OF DATA PACKAGE