131793

"15:54:45"	13.77457	29.38045	11.43290
"15:55: 0"	13.88379	29.38045	11.32134
"15:55:15"	13.82918	16.44115	11.37712
"15:55:30"	13.88379	15.66368	11.43290
"15:55:45"	13.88379	15.33048	11.43290
"15:56: 0"	13.82918	15.05281	11.43290
"15:56:15"	13.88379	14.88621	11.43290
"15:56:30"	13.88379	14.71961	11.37712
"15:56:45"	13.82918	14.60854	11.43290
"15:57: 0"	13.82918	14.49748	11.43290
"15:57:15"	13.82918	14.44194	11.37712
"15:57:30"	13.82918	14.27534	11.43290
"15:57:45"	13.82918	14.21981	11.37712
"15:58: 0"	13.82918	14.16427	11.43290

"TEST START TIME: 9:05"
" TEST LOCATION: D&M/RECTICON PACERFORD"
" EMPLOYEE NAME: BIGAS,PAUL J"
"EMPLOYEE NUMBER: ----"
" DEPARTMENT: ----"
"COMMENT FIELD 1: DBR-2 ZN-3(150.5'-BOTTOM)"
"COMMENT FIELD 2: 24.25 GPM SAMPLED"
" NUMERIC CODES: ---- ---- ---- ---- ----"

"METROSONICS dl-714 SN 1623 V2.0 02/89"

"CURRENT DATE: 07/08/92"
"CURRENT TIME: 09:42:14"

"TEST STARTING DATE: 7/ 8/92"
"TEST STARTING TIME: 9: 3:50"

"ELAPSED TIME: 0 DAYS 0:33: 4"
"SAMPLE RATE: 4/min"

" " "TIME" " "	"AVG" "CHANNEL 1" "ft "	"AVG" "CHANNEL 2" "ft "
" 7/ 8/92"		
" 9: 3:50"	13.78240	13.83998
" 9: 4: 5"	13.84003	13.83998
" 9: 4:20"	13.78240	13.83998
" 9: 4:35"	13.78240	13.72865
" 9: 4:50"	13.72476	13.72865
" 9: 5: 5"	13.84003	12.94938
" 9: 5:20"	13.95530	12.39276
" 9: 5:35"	13.89767	12.28143
" 9: 5:50"	13.95530	12.22577
" 9: 6: 5"	13.95530	12.22577
" 9: 6:20"	13.95530	12.17010
" 9: 6:35"	13.89767	12.11444
" 9: 6:50"	13.95530	12.05878
" 9: 7: 5"	13.95530	12.05878
" 9: 7:20"	13.95530	12.05878
" 9: 7:35"	13.95530	12.00312
" 9: 7:50"	13.89767	12.00312
" 9: 8: 5"	13.89767	11.94746
" 9: 8:20"	13.89767	11.89179
" 9: 8:35"	13.89767	11.94746
" 9: 8:50"	13.89767	11.89179
" 9: 9: 5"	13.89767	11.89179
" 9: 9:20"	13.95530	11.89179
" 9: 9:35"	13.95530	11.89179
" 9: 9:50"	13.89767	11.89179
" 9:10: 5"	13.95530	11.89179
" 9:10:20"	13.89767	11.83613
" 9:10:35"	13.89767	11.89179
" 9:10:50"	13.89767	11.78047
" 9:11: 5"	13.89767	11.83613
" 9:11:20"	13.89767	11.66914
" 9:11:35"	13.89767	11.33517
" 9:11:50"	13.89767	11.78047
" 9:12: 5"	13.89767	11.78047
" 9:12:20"	13.89767	11.78047
" 9:12:35"	13.95530	11.72481
" 9:12:50"	13.95530	11.78047
" 9:13: 5"	13.89767	11.78047

" 9:13:50"	13.95530	11.78047
" 9:14: 5"	13.89767	11.72481
" 9:14:20"	13.95530	11.72481
" 9:14:35"	13.95530	11.78047
" 9:14:50"	13.95530	11.72481
" 9:15: 5"	13.95530	18.07033
" 9:15:20"	13.84003	17.73635
" 9:15:35"	13.78240	17.95901
" 9:15:50"	13.84003	18.23732
" 9:16: 5"	13.84003	18.40430
" 9:16:20"	13.84003	18.51563
" 9:16:35"	14.01293	18.73828
" 9:16:50"	13.95530	18.73828
" 9:17: 5"	13.95530	18.79394
" 9:17:20"	13.95530	19.01659
" 9:17:35"	13.84003	18.84960
" 9:17:50"	13.89767	19.01659
" 9:18: 5"	13.95530	19.12792
" 9:18:20"	13.84003	18.96093
" 9:18:35"	13.84003	19.07225
" 9:18:50"	13.95530	19.29490
" 9:19: 5"	14.01293	19.29490
" 9:19:20"	13.84003	19.18358
" 9:19:35"	13.84003	19.23924
" 9:19:50"	13.89767	19.35057
" 9:20: 5"	14.01293	19.51755
" 9:20:20"	14.01293	19.35057
" 9:20:35"	13.95530	19.35057
" 9:20:50"	13.84003	19.35057
" 9:21: 5"	13.84003	19.35057
" 9:21:20"	13.89767	19.46189
" 9:21:35"	14.01293	19.57322
" 9:21:50"	13.95530	19.57322
" 9:22: 5"	13.78240	19.40623
" 9:22:20"	13.84003	19.51755
" 9:22:35"	13.84003	19.51755
" 9:22:50"	13.84003	19.51755
" 9:23: 5"	13.78240	19.46189
" 9:23:20"	13.84003	19.51755
" 9:23:35"	13.84003	19.62888
" 9:23:50"	13.84003	19.57322
" 9:24: 5"	13.95530	19.62888
" 9:24:20"	13.95530	19.74020
" 9:24:35"	13.78240	19.62888
" 9:24:50"	14.01293	19.74020
" 9:25: 5"	13.89767	19.68454
" 9:25:20"	13.78240	19.68454
" 9:25:35"	14.07057	19.90719
" 9:25:50"	14.01293	19.85153
" 9:26: 5"	14.01293	19.85153
" 9:26:20"	13.78240	19.68454
" 9:26:35"	13.84003	19.68454
" 9:26:50"	13.84003	19.74020
" 9:27: 5"	13.84003	19.74020
" 9:27:20"	13.89767	19.85153
" 9:27:35"	13.89767	19.85153
" 9:27:50"	14.01293	20.07418
" 9:28: 5"	14.07057	19.96285
" 9:28:20"	14.07057	20.07418
" 9:28:35"	14.01293	19.90719
" 9:28:50"	14.07057	20.01852
" 9:29: 5"	14.01293	20.01852
" 9:29:20"	14.01293	20.01852
" 9:29:35"	13.89767	19.96285

" 9:30:20"	13.78240	19.96285
" 9:30:35"	13.84003	19.96285
" 9:30:50"	14.01293	20.12984
" 9:31: 5"	14.07057	20.12984
" 9:31:20"	14.07057	20.12984
" 9:31:35"	14.07057	20.07418
" 9:31:50"	13.89767	19.96285
" 9:32: 5"	13.95530	14.17395
" 9:32:20"	13.95530	13.78432
" 9:32:35"	13.95530	13.56167
" 9:32:50"	13.89767	13.33902
" 9:33: 5"	13.95530	13.22769
" 9:33:20"	13.89767	13.11637
" 9:33:35"	13.89767	13.06071
" 9:33:50"	13.89767	12.89372
" 9:34: 5"	13.89767	12.89372
" 9:34:20"	13.89767	12.78239
" 9:34:35"	13.89767	12.78239
" 9:34:50"	13.89767	12.72673
" 9:35: 5"	13.95530	12.72673
" 9:35:20"	13.89767	12.67107
" 9:35:35"	13.89767	12.55974
" 9:35:50"	13.95530	12.55974
" 9:36: 5"	13.95530	12.55974
" 9:36:20"	13.95530	12.50408
" 9:36:35"	13.89767	12.44842
" 9:36:50"	13.95530	12.44842

"TEST START DATE: 6-30-92"
"TEST START TIME: 16:21:44"
" TEST LOCATION: D&M Recticon Pottstown Pa"
" EMPLOYEE NAME: Sobelman, Joshua"
"EMPLOYEE NUMBER: ----"
" DEPARTMENT: ----"
"COMMENT FIELD 1: DBR11Z1 (swl-84.5)"
"COMMENT FIELD 2: rate 24.5gpm"
" NUMERIC CODES: ---- ---- ---- ---- ----"

"METROSONICS dl-714 SN 1623 V2.0 02/89"

"CURRENT DATE: 07/01/92"
"CURRENT TIME: 11:33:06"

"TEST STARTING DATE: 6/30/92"
"TEST STARTING TIME: 16:21:46"

"ELAPSED TIME: 0 DAYS 0:48:56"
"SAMPLE RATE: 4/min"

" "	"AVG"	"AVG"
"TIME"	"CHANNEL 2"	"CHANNEL 3"
" "	"ft "	"ft "
" 6/30/92"		
"16:21:46"	22.33590	22.44270
"16:22: 1"	22.38994	22.49545
"16:22:16"	22.44398	22.49545
"16:22:31"	22.38994	22.44270
"16:22:46"	22.38994	22.49545
"16:23: 1"	22.44398	22.49545
"16:23:16"	22.38994	22.44270
"16:23:31"	22.33590	22.44270
"16:23:46"	22.38994	22.44270
"16:24: 1"	22.38994	22.44270
"16:24:16"	22.44398	22.49545
"16:24:31"	22.38994	22.49545
"16:24:46"	22.01169	22.12622
"16:25: 1"	21.95765	22.12622
"16:25:16"	21.84958	22.60094
"16:25:31"	21.74151	22.65369
"16:25:46"	21.63343	22.70644
"16:26: 1"	21.52536	22.70644
"16:26:16"	21.41729	22.75919
"16:26:31"	21.30922	21.59874
"16:26:46"	21.25518	21.65149
"16:27: 1"	21.25518	21.86248
"16:27:16"	21.25518	22.33721
"16:27:31"	21.20114	22.49545
"16:27:46"	21.14711	22.38995
"16:28: 1"	21.20114	22.60094
"16:28:16"	21.14711	22.23171
"16:28:31"	21.09307	21.91523
"16:28:46"	21.09307	21.70424
"16:29: 1"	21.14711	21.70424
"16:29:16"	21.14711	21.70424
"16:29:31"	21.09307	21.65149
"16:29:46"	21.09307	21.65149
"16:30: 1"	21.03904	21.70424
"16:30:16"	20.98500	21.65149
"16:30:31"	21.03904	21.75698
"16:30:46"	20.98500	22.02072
"16:31: 1"	21.09307	22.44270
"16:31:16"	21.09307	22.70644

"16:31:31"	20.98500	22.81193
"16:31:46"	21.03904	22.75919
"16:32: 1"	21.09307	22.81193
"16:32:16"	20.98500	22.75919
"16:32:31"	21.03904	21.49325
"16:32:46"	21.09307	21.49325
"16:33: 1"	21.03904	21.49325
"16:33:16"	21.03904	21.49325
"16:33:31"	21.03904	21.49325
"16:33:46"	20.98500	21.49325
"16:34: 1"	21.03904	21.49325
"16:34:16"	21.03904	21.54600
"16:34:31"	21.03904	21.49325
"16:34:46"	21.03904	21.54600
"16:35: 1"	20.71482	21.54600
"16:35:16"	20.55271	21.54600
"16:35:31"	20.66078	21.54600
"16:35:46"	20.76885	21.54600
"16:36: 1"	20.82289	21.59874
"16:36:16"	20.82289	21.54600
"16:36:31"	20.87693	21.49325
"16:36:46"	20.87693	21.54600
"16:37: 1"	20.87693	21.54600
"16:37:16"	20.93096	21.54600
"16:37:31"	20.98500	21.54600
"16:37:46"	20.98500	21.54600
"16:38: 1"	20.98500	21.59874
"16:38:16"	20.98500	21.54600
"16:38:31"	20.93096	21.54600
"16:38:46"	20.98500	21.54600
"16:39: 1"	21.41729	21.65149
"16:39:16"	22.28187	21.70424
"16:39:31"	22.93030	21.65149
"16:39:46"	23.57874	21.70424
"16:40: 1"	23.68681	21.49325
"16:40:16"	24.11910	21.44050
"16:40:31"	24.44332	21.44050
"16:40:46"	24.82157	21.49325
"16:41: 1"	25.25386	21.70424
"16:41:16"	25.47000	21.70424
"16:41:31"	25.57808	21.75698
"16:41:46"	25.63211	22.60094
"16:42: 1"	25.84826	21.70424
"16:42:16"	26.17247	21.70424
"16:42:31"	26.01036	21.49325
"16:42:46"	26.11844	21.44050
"16:43: 1"	26.38862	21.65149
"16:43:16"	26.33458	21.96798
"16:43:31"	26.60476	22.70644
"16:43:46"	26.71284	22.33721
"16:44: 1"	26.76687	22.38995
"16:44:16"	26.60476	22.33721
"16:44:31"	26.60476	22.44270
"16:44:46"	26.71284	21.54600
"16:45: 1"	26.98302	21.70424
"16:45:16"	26.65880	21.44050
"16:45:31"	26.98302	21.54600
"16:45:46"	27.03705	21.59874
"16:46: 1"	27.09109	21.91523
"16:46:16"	26.98302	21.54600
"16:46:31"	26.92898	21.54600
"16:46:46"	26.98302	21.65149
"16:47: 1"	27.03705	21.59874
"16:47:16"	27.09109	23.02292
"16:47:31"	27.19916	23.02292
"16:47:46"	27.03705	22.70644

"16:48: 1"	27.84760	22.86468
"16:48:16"	28.33392	22.81193
"16:48:31"	29.03639	23.02292
"16:48:46"	29.46868	23.02292
"16:49: 1"	30.00904	23.02292
"16:49:16"	30.33326	22.86468
"16:49:31"	30.54941	22.60094
"16:49:46"	31.08977	22.86468
"16:50: 1"	31.35995	22.86468
"16:50:16"	31.63013	22.91743
"16:50:31"	31.90031	22.91743
"16:50:46"	32.17049	23.07567
"16:51: 1"	32.44067	22.75919
"16:51:16"	32.65682	22.49545
"16:51:31"	32.54874	22.81193
"16:51:46"	32.71085	22.75919
"16:52: 1"	33.14314	23.02292
"16:52:16"	33.30525	22.81193
"16:52:31"	33.41332	22.33721
"16:52:46"	33.57543	22.23171
"16:53: 1"	33.57543	22.33721
"16:53:16"	33.46736	22.23171
"16:53:31"	33.62947	22.12622
"16:53:46"	33.79158	22.23171
"16:54: 1"	33.84562	22.23171
"16:54:16"	34.00772	22.33721
"16:54:31"	34.00772	22.28446
"16:54:46"	34.11580	22.28446
"16:55: 1"	34.44001	22.65369
"16:55:16"	34.49405	22.97017
"16:55:31"	34.38597	22.91743
"16:55:46"	34.27790	22.97017
"16:56: 1"	34.27790	22.81193
"16:56:16"	34.60212	22.97017
"16:56:31"	34.49405	23.02292
"16:56:46"	34.44001	22.75919
"16:57: 1"	34.76423	22.97017
"16:57:16"	34.54808	22.91743
"16:57:31"	34.60212	22.70644
"16:57:46"	35.41266	23.12842
"16:58: 1"	35.79092	22.81193
"16:58:16"	36.43935	22.70644
"16:58:31"	36.87164	22.33721
"16:58:46"	37.41200	22.44270
"16:59: 1"	37.73622	22.38995
"16:59:16"	37.89833	22.23171
"16:59:31"	38.49273	22.44270
"16:59:46"	38.87098	22.38995
"17: 0: 1"	39.24923	22.33721
"17: 0:16"	39.46538	22.38995
"17: 0:31"	39.62749	22.02072
"17: 0:46"	39.73556	22.12622
"17: 1: 1"	40.11381	22.38995
"17: 1:16"	40.27592	22.28446
"17: 1:31"	40.70821	22.49545
"17: 1:46"	40.76225	22.44270
"17: 2: 1"	41.03243	22.33721
"17: 2:16"	41.30261	22.60094
"17: 2:31"	41.51875	22.65369
"17: 2:46"	41.62683	22.33721
"17: 3: 1"	41.73490	22.54819
"17: 3:16"	41.84297	22.70644
"17: 3:31"	42.11315	23.02292
"17: 3:46"	42.11315	22.49545
"17: 4: 1"	42.27526	22.54819
"17: 4:16"	40.43803	22.49545

"17: 4:31"	38.49273	22.49545
"17: 4:46"	36.70953	22.54819
"17: 5: 1"	35.14248	22.60094
"17: 5:16"	33.62947	22.44270
"17: 5:31"	32.27856	22.70644
"17: 5:46"	31.03573	22.49545
"17: 6: 1"	29.90097	22.65369
"17: 6:16"	28.92832	22.65369
"17: 6:31"	27.95567	22.54819
"17: 6:46"	27.09109	22.97017
"17: 7: 1"	26.38862	23.07567
"17: 7:16"	25.68615	23.12842
"17: 7:31"	25.03771	23.07567
"17: 7:46"	24.49735	23.02292
"17: 8: 1"	24.01103	23.02292
"17: 8:16"	23.63277	23.07567
"17: 8:31"	23.25452	22.60094
"17: 8:46"	22.98434	22.44270
"17: 9: 1"	22.71416	22.33721
"17: 9:16"	22.44398	22.38995
"17: 9:31"	22.22783	22.44270
"17: 9:46"	22.06572	22.54819
"17:10: 1"	22.01169	22.44270
"17:10:16"	21.84958	22.54819
"17:10:31"	21.74151	22.38995

"TEST START DATE: 7-1-92"
"TEST START TIME: 9:02"
" TEST LOCATION: D&M Recticon Pottstown Pa"
" EMPLOYEE NAME: Sobelman, Joshua"
"EMPLOYEE NUMBER: ----"
" DEPARTMENT: ----"
"COMMENT FIELD 1: DBR11 Z2(84.5-119.5)"
"COMMENT FIELD 2: rate 17.25gpm"
" NUMERIC CODES: ---- ---- ---- ---- ----"

"METROSONICS dl-714 SN 1623 V2.0 02/89"

"CURRENT DATE: 07/01/92"
"CURRENT TIME: 11:30:09"

"TEST STARTING DATE: 7/ 1/92"
"TEST STARTING TIME: 9: 2:16"

"ELAPSED TIME: 0 DAYS 0:43:55"
"SAMPLE RATE: 4/min"

" " "TIME" " "	"AVG" "CHANNEL 1" "ft "	"AVG" "CHANNEL 2" "ft "	"AVG" "CHANNEL 3" "ft "
" 7/ 1/92"			
" 9: 2:16"	22.44004	22.32964	22.49496
" 9: 2:31"	22.44004	22.38480	22.43990
" 9: 2:46"	22.44004	22.43997	22.49496
" 9: 3: 1"	22.49735	22.38480	22.49496
" 9: 3:16"	22.44004	22.32964	22.43990
" 9: 3:31"	22.44004	22.38480	22.49496
" 9: 3:46"	22.32542	22.21931	22.32976
" 9: 4: 1"	21.46576	21.44703	21.55883
" 9: 4:16"	21.40845	21.66768	21.88923
" 9: 4:31"	21.23651	21.55736	22.66016
" 9: 4:46"	21.12189	21.66768	22.66016
" 9: 5: 1"	21.00727	21.77801	22.71523
" 9: 5:16"	20.94996	21.77801	22.71523
" 9: 5:31"	20.83534	21.77801	22.77030
" 9: 5:46"	20.77802	21.77801	22.77030
" 9: 6: 1"	20.72071	21.77801	22.77030
" 9: 6:16"	20.60609	21.72285	22.77030
" 9: 6:31"	20.60609	21.77801	22.77030
" 9: 6:46"	20.60609	21.77801	22.77030
" 9: 7: 1"	20.54878	21.77801	22.82537
" 9: 7:16"	20.54878	21.77801	22.77030
" 9: 7:31"	20.49147	21.77801	22.77030
" 9: 7:46"	20.54878	21.77801	22.82537
" 9: 8: 1"	20.49147	21.83317	22.77030
" 9: 8:16"	20.49147	21.77801	22.77030
" 9: 8:31"	20.43416	21.77801	22.82537
" 9: 8:46"	20.43416	21.77801	22.82537

" 9: 9: 1"	20.43416	21.72285	22.82537
" 9: 9:16"	20.43416	21.77801	22.77030
" 9: 9:31"	20.43416	21.72285	22.82537
" 9: 9:46"	20.43416	21.77801	22.82537
" 9:10: 1"	20.37685	21.77801	22.82537
" 9:10:16"	20.43416	21.77801	22.82537
" 9:10:31"	20.37685	21.77801	22.82537
" 9:10:46"	20.43416	21.77801	22.82537
" 9:11: 1"	20.37685	21.66768	22.82537
" 9:11:16"	20.37685	20.39893	22.77030
" 9:11:31"	20.37685	21.44703	22.77030
" 9:11:46"	20.37685	21.61252	22.82537
" 9:12: 1"	20.37685	21.66768	22.82537
" 9:12:16"	20.43416	21.72285	22.82537
" 9:12:31"	20.37685	21.72285	22.82537
" 9:12:46"	20.37685	21.72285	22.77030
" 9:13: 1"	20.43416	21.77801	22.88043
" 9:13:16"	20.37685	21.72285	22.88043
" 9:13:31"	20.37685	21.72285	22.82537
" 9:13:46"	20.37685	21.72285	22.88043
" 9:14: 1"	20.37685	21.72285	22.82537
" 9:14:16"	20.37685	21.72285	22.88043
" 9:14:31"	20.43416	21.77801	22.82537
" 9:14:46"	20.37685	21.72285	22.82537
" 9:15: 1"	20.43416	21.77801	22.88043
" 9:15:16"	20.37685	21.72285	22.82537
" 9:15:31"	20.43416	21.72285	22.82537
" 9:15:46"	20.37685	21.72285	22.82537
" 9:16: 1"	20.43416	21.77801	22.88043
" 9:16:16"	20.43416	21.77801	22.88043
" 9:16:31"	20.37685	21.77801	22.88043
" 9:16:46"	20.43416	21.72285	22.88043
" 9:17: 1"	20.43416	21.77801	22.82537
" 9:17:16"	20.37685	21.72285	22.82537
" 9:17:31"	20.31954	21.99866	22.82537
" 9:17:46"	20.43416	28.34243	22.66016
" 9:18: 1"	20.37685	28.61824	22.93550
" 9:18:16"	20.26223	28.61824	22.71523
" 9:18:31"	20.20492	28.67340	22.66016
" 9:18:46"	20.26223	28.72857	22.77030
" 9:19: 1"	20.49147	29.11471	22.93550
" 9:19:16"	20.37685	29.00438	22.88043
" 9:19:31"	20.20492	28.89406	22.71523
" 9:19:46"	20.49147	29.11471	22.93550
" 9:20: 1"	20.26223	29.00438	22.66016
" 9:20:16"	20.26223	29.00438	22.77030
" 9:20:31"	20.49147	29.16987	22.88043
" 9:20:46"	20.26223	29.00438	22.82537
" 9:21: 1"	20.49147	29.28020	22.99056
" 9:21:16"	20.37685	29.16987	22.93550
" 9:21:31"	20.54878	29.16987	22.77030
" 9:21:46"	20.49147	29.33536	22.88043
" 9:22: 1"	20.49147	29.16987	22.71523
" 9:22:16"	20.31954	45.05687	22.77030

" 9:22:31"	20.26223	51.95226	22.66016
" 9:22:46"	20.26223	54.10363	22.66016
" 9:23: 1"	20.54878	55.48270	22.66016
" 9:23:16"	20.60609	56.42048	22.82537
" 9:23:31"	20.31954	56.86179	22.66016
" 9:23:46"	20.37685	57.63407	22.88043
" 9:24: 1"	20.43416	58.02021	22.93550
" 9:24:16"	20.31954	58.29603	22.66016
" 9:24:31"	20.60609	58.90282	22.82537
" 9:24:46"	20.31954	58.73733	22.66016
" 9:25: 1"	20.54878	59.12347	22.88043
" 9:25:16"	20.49147	59.23380	22.88043
" 9:25:31"	20.54878	59.45445	22.77030
" 9:25:46"	20.60609	59.56478	22.88043
" 9:26: 1"	20.54878	59.45445	22.71523
" 9:26:16"	20.60609	59.84060	22.99056
" 9:26:31"	20.54878	59.67511	22.66016
" 9:26:46"	20.26223	59.67511	22.66016
" 9:27: 1"	20.31954	59.73027	22.77030
" 9:27:16"	20.49147	59.95092	22.93550
" 9:27:31"	20.26223	59.78543	22.77030
" 9:27:46"	20.49147	60.06125	22.93550
" 9:28: 1"	20.54878	60.22674	22.82537
" 9:28:16"	20.31954	60.06125	22.88043
" 9:28:31"	20.60609	60.28190	22.93550
" 9:28:46"	20.31954	60.11641	22.82537
" 9:29: 1"	20.60609	60.39223	22.99056
" 9:29:16"	20.31954	60.11641	22.77030
" 9:29:31"	20.60609	60.22674	22.88043
" 9:29:46"	20.49147	60.22674	22.99056
" 9:30: 1"	20.31954	60.17157	22.88043
" 9:30:16"	20.43416	60.28190	22.99056
" 9:30:31"	20.31954	60.22674	22.82537
" 9:30:46"	20.49147	60.22674	22.77030
" 9:31: 1"	20.49147	60.55772	23.04563
" 9:31:16"	20.54878	60.33707	22.82537
" 9:31:31"	20.60609	60.55772	22.99056
" 9:31:46"	20.49147	60.44739	22.99056
" 9:32: 1"	20.54878	60.44739	22.82537
" 9:32:16"	20.37685	60.55772	22.82537
" 9:32:31"	20.54878	60.61288	23.04563
" 9:32:46"	20.43416	60.44739	22.77030
" 9:33: 1"	20.31954	60.33707	22.82537
" 9:33:16"	20.49147	60.50256	22.82537
" 9:33:31"	20.31954	60.50256	22.88043
" 9:33:46"	20.49147	60.44739	22.77030
" 9:34: 1"	20.49147	60.55772	23.10070
" 9:34:16"	20.43416	60.55772	22.88043
" 9:34:31"	20.31954	60.66805	22.99056
" 9:34:46"	20.54878	60.39223	22.88043
" 9:35: 1"	20.60609	60.77837	23.10070
" 9:35:16"	20.43416	60.22674	22.82537
" 9:35:31"	20.31954	61.05419	22.99056
" 9:35:46"	20.37685	60.61288	23.10070

" 9:36: 1"	20.54878	60.83353	23.10070
" 9:36:16"	20.31954	60.50256	22.88043
" 9:36:31"	20.54878	60.88870	23.04563
" 9:36:46"	20.43416	60.83353	23.10070
" 9:37: 1"	20.26223	60.99902	22.93550
" 9:37:16"	20.49147	60.83353	22.88043
" 9:37:31"	20.49147	60.83353	22.88043
" 9:37:46"	20.31954	60.83353	22.93550
" 9:38: 1"	20.37685	60.55772	22.88043
" 9:38:16"	20.49147	60.72321	22.88043
" 9:38:31"	20.60609	60.99902	23.10070
" 9:38:46"	20.31954	60.66805	22.99056
" 9:39: 1"	20.31954	60.83353	22.99056
" 9:39:16"	20.37685	60.88870	23.15577
" 9:39:31"	20.26223	60.72321	22.99056
" 9:39:46"	20.43416	60.83353	23.15577
" 9:40: 1"	20.37685	60.88870	23.15577
" 9:40:16"	20.60609	60.88870	23.15577
" 9:40:31"	20.54878	60.94386	23.21083
" 9:40:46"	20.31954	60.77837	22.93550
" 9:41: 1"	20.60609	60.77837	22.99056
" 9:41:16"	20.49147	31.10058	23.04563
" 9:41:31"	20.43416	27.62531	23.10070
" 9:41:46"	20.43416	25.80492	23.10070
" 9:42: 1"	20.49147	24.75682	23.10070
" 9:42:16"	20.43416	24.20519	23.10070
" 9:42:31"	20.49147	23.81905	23.10070
" 9:42:46"	20.43416	23.54323	23.15577
" 9:43: 1"	20.49147	23.32258	23.10070
" 9:43:16"	20.43416	23.21225	23.10070
" 9:43:31"	20.49147	22.99160	23.15577
" 9:43:46"	20.43416	22.93644	23.10070
" 9:44: 1"	20.43416	22.82611	23.10070
" 9:44:16"	20.43416	22.77094	23.10070
" 9:44:31"	20.43416	22.71578	23.10070
" 9:44:46"	20.43416	22.66062	23.15577
" 9:45: 1"	20.43416	22.60546	23.15577
" 9:45:16"	20.43416	22.55029	23.10070
" 9:45:31"	20.43416	22.49513	23.15577
" 9:45:46"	20.43416	22.49513	23.15577
" 9:46: 1"	20.43416	22.43997	23.10070

"TEST START DATE: 7-1-92"
"TEST START TIME: 10:22"
" TEST LOCATION: D&M Recticon Pottstown Pa"
" EMPLOYEE NAME: Sobelman, Joshua"
"EMPLOYEE NUMBER: ----"
" DEPARTMENT: ----"
"COMMENT FIELD 1: DBR11 Z2(120.5-TD)"
"COMMENT FIELD 2: rate 25gpm"
" NUMERIC CODES: ---- ---- ---- ---- ----"

"METROSONICS dl-714 SN 1623 V2.0 02/89"

"CURRENT DATE: 07/01/92"
"CURRENT TIME: 11:28:24"

"TEST STARTING DATE: 7/ 1/92"
"TEST STARTING TIME: 10:22: 1"

"ELAPSED TIME: 0 DAYS 0:52:43"
"SAMPLE RATE: 4/min"

" " "TIME" " "	"AVG" "CHANNEL 1" "ft "	"AVG" "CHANNEL 2" "ft "
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"10:22:16"	22.38208	22.38387
"10:22:31"	22.38208	22.43995
"10:22:46"	22.44002	22.43995
"10:23: 1"	22.38208	22.38387
"10:23:16"	22.38208	22.38387
"10:23:31"	22.38208	22.38387
"10:23:46"	22.20826	22.21564
"10:24: 1"	22.09238	22.10348
"10:24:16"	21.97650	22.04741
"10:24:31"	22.03444	22.43995
"10:24:46"	21.74474	22.60818
"10:25: 1"	21.62886	22.66426
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"10:25:31"	21.39710	22.72033
"10:25:46"	21.33916	22.66426
"10:26: 1"	21.33916	22.72033
"10:26:16"	21.28122	22.66426
"10:26:31"	21.28122	22.72033
"10:26:46"	21.28122	22.72033
"10:27: 1"	21.16534	22.72033
"10:27:16"	21.22328	22.77641
"10:27:31"	21.16534	22.72033
"10:27:46"	21.22328	22.77641
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"10:28:16"	21.16534	22.72033
"10:28:31"	21.10740	22.72033

"10:28:46"	21.16534	22.72033
"10:29: 1"	21.16534	22.77641
"10:29:16"	21.10740	22.72033
"10:29:31"	21.16534	22.77641
"10:29:46"	21.10740	22.72033
"10:30: 1"	21.10740	22.77641
"10:30:16"	21.10740	22.77641
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"10:30:46"	21.04946	22.72033
"10:31: 1"	21.10740	22.77641
"10:31:16"	21.16534	22.77641
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"10:32: 1"	21.04946	22.72033
"10:32:16"	21.04946	22.72033
"10:32:31"	21.10740	22.77641
"10:32:46"	21.10740	22.77641
"10:33: 1"	21.10740	22.77641
"10:33:16"	21.04946	22.72033
"10:33:31"	21.04946	22.72033
"10:33:46"	21.04946	22.77641
"10:34: 1"	21.10740	22.77641
"10:34:16"	21.10740	22.77641
"10:34:31"	21.10740	22.72033
"10:34:46"	21.04946	22.72033
"10:35: 1"	21.04946	22.77641
"10:35:16"	21.04946	22.72033
"10:35:31"	21.04946	22.77641
"10:35:46"	21.04946	22.72033
"10:36: 1"	21.04946	22.72033
"10:36:16"	21.04946	22.72033
"10:36:31"	21.10740	22.49603
"10:36:46"	21.04946	22.60818
"10:37: 1"	21.04946	22.72033
"10:37:16"	21.04946	22.77641
"10:37:31"	21.04946	22.72033
"10:37:46"	21.10740	22.77641
"10:38: 1"	21.04946	22.77641
"10:38:16"	21.10740	22.77641
"10:38:31"	21.10740	22.72033
"10:38:46"	21.04946	22.77641
"10:39: 1"	21.04946	22.72033
"10:39:16"	21.04946	22.77641
"10:39:31"	21.10740	22.77641
"10:39:46"	21.04946	22.77641
"10:40: 1"	21.10740	22.77641
"10:40:16"	21.10740	22.77641
"10:40:31"	21.04946	22.77641
"10:40:46"	21.04946	22.72033
"10:41: 1"	21.04946	22.77641
"10:41:16"	21.04946	22.77641
"10:41:31"	21.10740	22.77641
"10:41:46"	21.04946	22.77641
"10:42: 1"	21.04946	22.72033

"10:42:16"	21.04946	22.72033
"10:42:31"	21.10740	22.72033
"10:42:46"	21.10740	22.72033
"10:43: 1"	21.10740	22.72033
"10:43:16"	21.04946	22.72033
"10:43:31"	21.04946	25.80458
"10:43:46"	20.99152	26.02889
"10:44: 1"	21.16534	26.36536
"10:44:16"	20.93358	26.25320
"10:44:31"	21.22328	26.53359
"10:44:46"	20.99152	26.36536
"10:45: 1"	20.99152	26.47751
"10:45:16"	21.04946	26.42143
"10:45:31"	20.93358	26.53359
"10:45:46"	21.10740	26.53359
"10:46: 1"	20.99152	26.47751
"10:46:16"	20.99152	26.64574
"10:46:31"	21.16534	26.64574
"10:46:46"	21.16534	26.81397
"10:47: 1"	21.16534	26.87005
"10:47:16"	21.16534	26.81397
"10:47:31"	21.10740	26.87005
"10:47:46"	20.93358	26.70182
"10:48: 1"	20.93358	26.70182
"10:48:16"	21.10740	26.81397
"10:48:31"	21.04946	26.81397
"10:48:46"	20.99152	26.70182
"10:49: 1"	21.04946	26.70182
"10:49:16"	21.22328	26.87005
"10:49:31"	21.04946	26.75790
"10:49:46"	21.22328	26.98221
"10:50: 1"	21.16534	26.92613
"10:50:16"	20.99152	26.75790
"10:50:31"	21.04946	26.75790
"10:50:46"	21.28122	27.03828
"10:51: 1"	21.16534	26.81397
"10:51:16"	20.93358	26.75790
"10:51:31"	21.22328	27.03828
"10:51:46"	21.22328	26.92613
"10:52: 1"	21.22328	27.03828
"10:52:16"	20.99152	26.75790
"10:52:31"	21.16534	26.81397
"10:52:46"	21.16534	26.87005
"10:53: 1"	21.16534	26.92613
"10:53:16"	21.22328	27.09436
"10:53:31"	21.10740	26.98221
"10:53:46"	21.22328	27.03828
"10:54: 1"	21.16534	27.03828
"10:54:16"	21.04946	26.98221
"10:54:31"	21.22328	26.98221
"10:54:46"	21.22328	26.98221
"10:55: 1"	21.28122	27.03828
"10:55:16"	21.16534	26.87005
"10:55:31"	21.10740	26.87005

"10:55:46"	21.22328	27.03828
"10:56: 1"	21.10740	26.87005
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"10:57: 1"	21.22328	27.09436
"10:57:16"	21.22328	26.92613
"10:57:31"	20.99152	26.81397
"10:57:46"	20.93358	26.87005
"10:58: 1"	20.99152	26.87005
"10:58:16"	21.22328	26.98221
"10:58:31"	21.22328	27.09436
"10:58:46"	21.22328	26.98221
"10:59: 1"	21.22328	27.09436
"10:59:16"	21.22328	27.03828
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"10:59:46"	21.04946	26.92613
"11: 0: 1"	21.10740	26.98221
"11: 0:16"	20.99152	26.87005
"11: 0:31"	21.10740	26.87005
"11: 0:46"	21.16534	26.81397
"11: 1: 1"	21.04946	26.87005
"11: 1:16"	21.04946	26.87005
"11: 1:31"	20.99152	26.87005
"11: 1:46"	21.16534	26.87005
"11: 2: 1"	21.28122	27.09436
"11: 2:16"	21.10740	26.98221
"11: 2:31"	21.28122	27.09436
"11: 2:46"	21.16534	27.03828
"11: 3: 1"	20.99152	26.81397
"11: 3:16"	21.22328	27.09436
"11: 3:31"	21.22328	27.03828
"11: 3:46"	21.16534	27.03828
"11: 4: 1"	21.04946	26.92613
"11: 4:16"	21.04946	26.87005
"11: 4:31"	21.04946	26.98221
"11: 4:46"	21.28122	27.03828
"11: 5: 1"	20.99152	26.87005
"11: 5:16"	21.22328	27.09436
"11: 5:31"	21.04946	26.87005
"11: 5:46"	21.22328	27.09436
"11: 6: 1"	21.16534	26.87005
"11: 6:16"	21.04946	26.92613
"11: 6:31"	20.99152	26.87005
"11: 6:46"	20.99152	26.92613
"11: 7: 1"	21.22328	27.09436
"11: 7:16"	21.04946	26.98221
"11: 7:31"	21.16534	24.01011
"11: 7:46"	21.16534	23.67365
"11: 8: 1"	21.16534	23.50541
"11: 8:16"	21.16534	23.44934
"11: 8:31"	21.16534	23.33718
"11: 8:46"	21.16534	23.28111
"11: 9: 1"	21.16534	23.28111

"11: 9:16"	21.16534	23.28111
"11: 9:31"	21.16534	23.22503
"11: 9:46"	21.16534	23.16895
"11:10: 1"	21.16534	23.16895
"11:10:16"	21.16534	23.11287
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"11:10:46"	21.22328	23.16895
"11:11: 1"	21.16534	23.11287
"11:11:16"	21.16534	23.05680
"11:11:31"	21.16534	23.11287
"11:11:46"	21.16534	23.05680
"11:12: 1"	21.16534	23.05680
"11:12:16"	21.16534	23.00072
"11:12:31"	21.16534	23.00072
"11:12:46"	21.10740	23.00072
"11:13: 1"	21.16534	23.00072
"11:13:16"	21.10740	23.00072
"11:13:31"	21.16534	22.94464
"11:13:46"	21.16534	22.94464
"11:14: 1"	21.10740	22.94464
"11:14:16"	21.10740	22.94464
"11:14:31"	21.16534	23.00072

"TEST START TIME: 14:38"
" TEST LOCATION: D&M Recticon Pottstown Pa"
" EMPLOYEE NAME: Kirsch, Martin C."
"EMPLOYEE NUMBER: ----"
" DEPARTMENT: ----"
"COMMENT FIELD 1: Well DBR-12 Z1(SWL-73.3)"
"COMMENT FIELD 2: rate 15.5gpm "
" NUMERIC CODES: ---- ---- ---- ---- ----"

"METROSONICS dl-714 SN 1623 V2.0 02/89"

"CURRENT DATE: 06/29/92"
"CURRENT TIME: 16:01:21"

"TEST STARTING DATE: 6/29/92"
"TEST STARTING TIME: 14:38:23"

"ELAPSED TIME: 0 DAYS 1:14:54"
"SAMPLE RATE: 4/min"

" " "TIME" " "	"MIN" "CHANNEL 2" "ft "	"AVG" "CHANNEL 2" "ft "	"MAX" "CHANNEL 2" "ft "	"MIN" "CHANNEL 3' "ft "
" 6/29/92"				
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"15:48:38"	37.20486	37.20486	37.20486	30.85224
"15:48:53"	36.58741	36.58741	36.58741	30.85224
"15:49: 8"	36.23191	36.23191	36.23191	30.85224
"15:49:23"	35.95124	35.95124	35.95124	30.85224
"15:49:38"	35.61445	35.61445	35.61445	30.85224
"15:49:53"	35.35250	35.35250	35.35250	30.85224
"15:50: 8"	35.07184	35.07184	35.07184	30.83740
"15:50:23"	34.77247	34.77247	34.77247	30.85224
"15:50:38"	34.54794	34.54794	34.54794	30.83740
"15:50:53"	34.28599	34.28599	34.28599	30.83740
"15:51: 8"	34.02404	34.02404	34.02404	30.85224
"15:51:23"	33.81823	33.81823	33.81823	30.85224
"15:51:38"	33.59370	33.59370	33.59370	30.83740
"15:51:53"	33.40659	33.40659	33.40659	30.85224
"15:52: 8"	33.20077	33.20077	33.20077	30.85224
"15:52:23"	33.01367	33.01367	33.01367	30.83740
"15:52:38"	32.84527	32.84527	32.84527	30.85224
"15:52:53"	32.65816	32.65816	32.65816	30.83740
"15:53: 8"	32.52719	32.52719	32.52719	30.83740

"TEST START TIME: 16:32"
" TEST LOCATION: D&M Recticon Pottstown Pa"
" EMPLOYEE NAME: Kirsch, Martin C."
"EMPLOYEE NUMBER: ----"
" DEPARTMENT: ----"
"COMMENT FIELD 1: Well DBR-12 Z2(95.5-115.3"
"COMMENT FIELD 2: rate 14.5gpm"
" NUMERIC CODES: ---- ---- ---- ---- ----"

"METROSONICS dl-714 SN 1623 V2.0 02/89"

"CURRENT DATE: 06/29/92"
"CURRENT TIME: 17:53:48"

"TEST STARTING DATE: 6/29/92"
"TEST STARTING TIME: 16:32:51"

"ELAPSED TIME: 0 DAYS 1:11:25"
"SAMPLE RATE: 4/min"

" " "TIME" " "	"MIN" "CHANNEL 1" "ft "	"AVG" "CHANNEL 1" "ft "	"MAX" "CHANNEL 1" "ft "	"MIN" "CHANNEL 2" "ft "
" 6/29/92"				
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"16:58: 6"	30.05055	30.05055	30.05055	70.89558
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"17: 1:21"	30.25371	30.25371	30.25371	71.5[illegible]
"17: 1:36"	30.30449	30.30449	30.30449	71.5[illegible]
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"17: 8:36"	30.30449	30.30449	30.30449	91.9[illegible]
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"17:10: 6"	30.40607	30.40607	30.40607	92.58418
"17:10:21"	30.10134	30.10134	30.10134	92.58418
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"17:11:51"	30.30449	30.30449	30.30449	92.70500
"17:12: 6"	30.40607	30.40607	30.40607	92.70500
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"17:13: 6"	30.20292	30.20292	30.20292	92.28210
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"17:14:36"	30.35528	30.35528	30.35528	92.64458
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"17:15: 6"	30.45686	30.45686	30.45686	92.76542

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"17:25: 6"	30.45686	30.45686	30.45686	93.42997
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"17:25:36"	30.20292	30.20292	30.20292	92.94666
"17:25:51"	30.15213	30.15213	30.15213	92.88625
"17:26: 6"	30.15213	30.15213	30.15213	93.06748
"17:26:21"	30.45686	30.45686	30.45686	93.06748
"17:26:36"	30.30449	30.30449	30.30449	92.82583
"17:26:51"	30.35528	30.35528	30.35528	92.94666
"17:27: 6"	30.45686	30.45686	30.45686	93.30914
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"17:27:36"	30.20292	30.20292	30.20292	92.94666
"17:27:51"	30.45686	30.45686	30.45686	93.18832
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"17:34:36"	30.40607	30.40607	30.40607	107.[illegible]
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"17:37:21"	30.20292	30.20292	30.20292	108.1710
"17:37:36"	30.15213	30.15213	30.15213	108.1710
"17:37:51"	30.30449	30.30449	30.30449	108.2314
"17:38: 6"	30.25371	30.25371	30.25371	108.1710
"17:38:21"	30.45686	30.45686	30.45686	108.4730
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"17:38:51"	30.25371	30.25371	30.25371	108.2918
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"17:39:21"	30.50765	30.50765	30.50765	108.7147
"17:39:36"	30.50765	30.50765	30.50765	108.7147
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"17:40: 6"	30.45686	30.45686	30.45686	108.7751
"17:40:21"	30.20292	30.20292	30.20292	108.4126
"17:40:36"	30.50765	30.50765	30.50765	108.7147
"17:40:51"	30.50765	30.50765	30.50765	108.5334
"17:41: 6"	30.20292	30.20292	30.20292	108.4126
"17:41:21"	30.50765	30.50765	30.50765	108.[illegible]
"17:41:36"	30.50765	30.50765	30.50765	108.[illegible]
"17:41:51"	30.20292	30.20292	30.20292	108.5334
"17:42: 6"	30.35528	30.35528	30.35528	51.50272
"17:42:21"	30.35528	30.35528	30.35528	41.41360
"17:42:36"	30.35528	30.35528	30.35528	35.55346
"17:42:51"	30.35528	30.35528	30.35528	32.89524
"17:43: 6"	30.30449	30.30449	30.30449	31.74738
"17:43:21"	30.35528	30.35528	30.35528	31.20366
"17:43:36"	30.30449	30.30449	30.30449	30.84117
"17:43:51"	30.30449	30.30449	30.30449	30.65993
"17:44: 6"	30.30449	30.30449	30.30449	30.41827

"TEST START TIME: 9:27"
" TEST LOCATION: D&M Recticon Pottstown Pa"
" EMPLOYEE NAME: Sobelman, Joshua"
"EMPLOYEE NUMBER: ----"
" DEPARTMENT: ----"
"COMMENT FIELD 1: Well DBR12 Z3(146.5-166.3"
"COMMENT FIELD 2: rate 24.25gpm "
" NUMERIC CODES: ---- ---- ---- ---- ----"

"METROSONICS dl-714 SN 1623 V2.0 02/89"

"CURRENT DATE: 06/30/92"
"CURRENT TIME: 10:36:31"

"TEST STARTING DATE: 6/30/92"
"TEST STARTING TIME: 9:27: 2"

"ELAPSED TIME: 0 DAYS 1: 2:26"
"SAMPLE RATE: 4/min"

" " "TIME" " "	"MIN" "CHANNEL 1" "ft "	"AVG" "CHANNEL 1" "ft "	"MAX" "CHANNEL 1" "ft "	"MIN" "CHANNEL 2' "ft "
" 6/30/92"				
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" 9:27:17"	30.78369	30.78369	30.78369	30.67114
" 9:27:32"	30.78369	30.78369	30.78369	30.61234
" 9:27:47"	30.78369	30.78369	30.78369	30.67114
" 9:28: 2"	30.72998	30.72998	30.72998	30.61234
" 9:28:17"	30.83739	30.83739	30.83739	30.67114
" 9:28:32"	30.83739	30.83739	30.83739	30.67114
" 9:28:47"	30.78369	30.78369	30.78369	30.67114
" 9:29: 2"	30.78369	30.78369	30.78369	30.67114
" 9:29:17"	30.78369	30.78369	30.78369	30.61234
" 9:29:32"	30.83739	30.83739	30.83739	30.72995
" 9:29:47"	30.78369	30.78369	30.78369	30.67114
" 9:30: 2"	30.83739	30.83739	30.83739	30.67114
" 9:30:17"	30.78369	30.78369	30.78369	30.67114
" 9:30:32"	30.83739	30.83739	30.83739	30.67114
" 9:30:47"	30.78369	30.78369	30.78369	30.67114
" 9:31: 2"	30.78369	30.78369	30.78369	30.72995
" 9:31:17"	30.78369	30.78369	30.78369	30.67114
" 9:31:32"	30.78369	30.78369	30.78369	30.61234
" 9:31:47"	30.78369	30.78369	30.78369	30.67114
" 9:32: 2"	30.67628	30.67628	30.67628	30.49472
" 9:32:17"	30.13923	30.13923	30.13923	29.90665
" 9:32:32"	30.03181	30.03181	30.03181	29.84784
" 9:32:47"	30.08552	30.08552	30.08552	30.67114
" 9:33: 2"	30.13923	30.13923	30.13923	30.72995
" 9:33:17"	30.13923	30.13923	30.13923	30.72995
" 9:33:32"	30.19293	30.19293	30.19293	30.78876
" 9:33:47"	30.19293	30.19293	30.19293	30.84757
" 9:34: 2"	30.24664	30.24664	30.24664	30.78876
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" 9:34:32"	30.24664	30.24664	30.24664	30.78876
" 9:34:47"	30.19293	30.19293	30.19293	30.78876
" 9:35: 2"	30.24664	30.24664	30.24664	30.78876
" 9:35:17"	30.19293	30.19293	30.19293	30.72995
" 9:35:32"	30.24664	30.24664	30.24664	30.78876
" 9:35:47"	30.24664	30.24664	30.24664	30.78876
" 9:36: 2"	30.19293	30.19293	30.19293	30.78876
" 9:36:17"	30.19293	30.19293	30.19293	30.84757

" 9:37: 2"	30.19293	30.19293	30.19293	30.78876
" 9:37:17"	30.19293	30.19293	30.19293	30.78876
" 9:37:32"	30.24664	30.24664	30.24664	30.84757
" 9:37:47"	30.24664	30.24664	30.24664	30.78876
" 9:38: 2"	30.19293	30.19293	30.19293	30.84757
" 9:38:17"	30.24664	30.24664	30.24664	30.78876
" 9:38:32"	30.24664	30.24664	30.24664	30.78876
" 9:38:47"	30.19293	30.19293	30.19293	30.84[illegible]
" 9:39: 2"	30.24664	30.24664	30.24664	30.84[illegible]
" 9:39:17"	30.24664	30.24664	30.24664	30.84757
" 9:39:32"	30.19293	30.19293	30.19293	30.84757
" 9:39:47"	30.24664	30.24664	30.24664	30.84757
" 9:40: 2"	30.19293	30.19293	30.19293	30.61234
" 9:40:17"	30.19293	30.19293	30.19293	30.72995
" 9:40:32"	30.19293	30.19293	30.19293	30.78876
" 9:40:47"	30.24664	30.24664	30.24664	30.78876
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" 9:41:17"	30.24664	30.24664	30.24664	30.84757
" 9:41:32"	30.19293	30.19293	30.19293	30.78876
" 9:41:47"	30.24664	30.24664	30.24664	30.84757
" 9:42: 2"	30.19293	30.19293	30.19293	30.84757
" 9:42:17"	30.24664	30.24664	30.24664	30.84757
" 9:42:32"	30.19293	30.19293	30.19293	30.78876
" 9:42:47"	30.19293	30.19293	30.19293	30.78876
" 9:43: 2"	30.24664	30.24664	30.24664	30.84757
" 9:43:17"	30.19293	30.19293	30.19293	30.84757
" 9:43:32"	30.19293	30.19293	30.19293	30.78876
" 9:43:47"	30.19293	30.19293	30.19293	30.84757
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" 9:44:32"	30.19293	30.19293	30.19293	30.78876
" 9:44:47"	30.35405	30.35405	30.35405	35.31695
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" 9:45:17"	30.13923	30.13923	30.13923	35.43456
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" 9:45:47"	30.51516	30.51516	30.51516	35.43[illegible]
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" 9:46:17"	30.62257	30.62257	30.62257	35.49[illegible]
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" 9:47:32"	30.67628	30.67628	30.67628	35.96383
" 9:47:47"	30.72998	30.72998	30.72998	35.90503
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" 9:48:17"	30.40775	30.40775	30.40775	35.61098
" 9:48:32"	30.72998	30.72998	30.72998	35.96383
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" 9:49:47"	30.67628	30.67628	30.67628	35.84621
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" 9:51:32"	30.78369	30.78369	30.78369	36.02264
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" 9:52: 2"	30.78369	30.78369	30.78369	35.96383
" 9:52:17"	30.51516	30.51516	30.51516	35.78741
" 9:52:32"	30.62257	30.62257	30.62257	35.72860
" 9:52:47"	30.78369	30.78369	30.78369	36.02264

" 9:53:32"	30.83739	30.83739	30.83739	36.14025
" 9:53:47"	30.51516	30.51516	30.51516	35.66979
" 9:54: 2"	30.72998	30.72998	30.72998	35.84621
" 9:54:17"	30.72998	30.72998	30.72998	36.02264
" 9:54:32"	30.62257	30.62257	30.62257	35.72860
" 9:54:47"	30.72998	30.72998	30.72998	35.96383
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" 9:55:17"	30.62257	30.62257	30.62257	35.72860
" 9:55:32"	30.83739	30.83739	30.83739	36.02264
" 9:55:47"	30.51516	30.51516	30.51516	35.78741
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" 9:56:32"	30.78369	30.78369	30.78369	36.02264
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" 9:57:17"	30.67628	30.67628	30.67628	35.72860
" 9:57:32"	30.67628	30.67628	30.67628	35.72860
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" 9:58:17"	30.51516	30.51516	30.51516	35.72860
" 9:58:32"	30.72998	30.72998	30.72998	36.02264
" 9:58:47"	30.83739	30.83739	30.83739	36.08145
" 9:59: 2"	30.51516	30.51516	30.51516	35.72860
" 9:59:17"	30.78369	30.78369	30.78369	35.96383
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" 9:59:47"	30.62257	30.62257	30.62257	35.72860
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"10: 1:32"	30.62257	30.62257	30.62257	35.84621
"10: 1:47"	30.62257	30.62257	30.62257	35.72860
"10: 2: 2"	30.89110	30.89110	30.89110	36.14025
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"10: 2:32"	30.56887	30.56887	30.56887	35.78741
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"10: 3:32"	30.67628	30.67628	30.67628	35.78741
"10: 3:47"	30.67628	30.67628	30.67628	35.96383
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"10: 4:32"	30.72998	30.72998	30.72998	35.84621
"10: 4:47"	30.83739	30.83739	30.83739	36.08145
"10: 5: 2"	30.72998	30.72998	30.72998	35.84621
"10: 5:17"	30.83739	30.83739	30.83739	36.19906
"10: 5:32"	30.56887	30.56887	30.56887	35.72860
"10: 5:47"	30.89110	30.89110	30.89110	36.08145
"10: 6: 2"	30.56887	30.56887	30.56887	35.78741
"10: 6:17"	30.83739	30.83739	30.83739	36.08145
"10: 6:32"	30.89110	30.89110	30.89110	36.08145
"10: 6:47"	30.62257	30.62257	30.62257	35.84621
"10: 7: 2"	30.62257	30.62257	30.62257	35.72860
"10: 7:17"	30.62257	30.62257	30.62257	35.72860
"10: 7:32"	30.83739	30.83739	30.83739	36.08145
"10: 7:47"	30.78369	30.78369	30.78369	35.84621
"10: 8: 2"	30.67628	30.67628	30.67628	35.78741
"10: 8:17"	30.56887	30.56887	30.56887	35.72860
"10: 8:32"	30.62257	30.62257	30.62257	35.72860
"10: 8:47"	30.67628	30.67628	30.67628	35.72860
"10: 9: 2"	30.72998	30.72998	30.72998	36.02264
"10: 9:17"	30.72998	30.72998	30.72998	36.02264

"10:10: 2"	30.83739	30.83739	30.83739	36.08145
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"10:10:32"	30.67628	30.67628	30.67628	35.96383
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"10:11: 2"	30.89110	30.89110	30.89110	35.90503
"10:11:17"	30.62257	30.62257	30.62257	35.84621
"10:11:32"	30.56887	30.56887	30.56887	35.78741
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"10:12: 2"	30.56887	30.56887	30.56887	35.7[illegible]
"10:12:17"	30.83739	30.83739	30.83739	36.02[illegible]
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"10:12:47"	30.72998	30.72998	30.72998	36.08145
"10:13: 2"	30.89110	30.89110	30.89110	36.19906
"10:13:17"	30.62257	30.62257	30.62257	35.84621
"10:13:32"	30.78369	30.78369	30.78369	36.19906
"10:13:47"	30.62257	30.62257	30.62257	35.84621
"10:14: 2"	30.83739	30.83739	30.83739	36.08145
"10:14:17"	30.83739	30.83739	30.83739	36.14025
"10:14:32"	30.62257	30.62257	30.62257	35.78741
"10:14:47"	30.89110	30.89110	30.89110	36.14025
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"10:15:17"	30.89110	30.89110	30.89110	36.14025
"10:15:32"	30.62257	30.62257	30.62257	35.84621
"10:15:47"	30.89110	30.89110	30.89110	36.02264
"10:16: 2"	30.89110	30.89110	30.89110	36.14025
"10:16:17"	30.89110	30.89110	30.89110	36.19906
"10:16:32"	30.72998	30.72998	30.72998	35.90503
"10:16:47"	30.83739	30.83739	30.83739	36.08145
"10:17: 2"	30.62257	30.62257	30.62257	35.78741
"10:17:17"	30.56887	30.56887	30.56887	35.84621
"10:17:32"	30.89110	30.89110	30.89110	36.14025
"10:17:47"	30.62257	30.62257	30.62257	35.78741
"10:18: 2"	30.56887	30.56887	30.56887	35.72860
"10:18:17"	30.67628	30.67628	30.67628	35.84621
"10:18:32"	30.89110	30.89110	30.89110	36.08145
"10:18:47"	30.83739	30.83739	30.83739	35.96383
"10:19: 2"	30.56887	30.56887	30.56887	35.7[illegible]
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"10:19:47"	30.89110	30.89110	30.89110	36.02264
"10:20: 2"	30.83739	30.83739	30.83739	36.14025
"10:20:17"	30.62257	30.62257	30.62257	35.96383
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"10:21: 2"	30.62257	30.62257	30.62257	35.84621
"10:21:17"	30.89110	30.89110	30.89110	36.14025
"10:21:32"	30.78369	30.78369	30.78369	35.90503
"10:21:47"	30.56887	30.56887	30.56887	35.84621
"10:22: 2"	30.78369	30.78369	30.78369	35.90503
"10:22:17"	30.62257	30.62257	30.62257	35.84621
"10:22:32"	30.72998	30.72998	30.72998	35.78741
"10:22:47"	30.67628	30.67628	30.67628	35.78741
"10:23: 2"	30.89110	30.89110	30.89110	36.08145
"10:23:17"	30.62257	30.62257	30.62257	35.90503
"10:23:32"	30.62257	30.62257	30.62257	35.78741
"10:23:47"	30.83739	30.83739	30.83739	36.14025
"10:24: 2"	30.83739	30.83739	30.83739	36.08145
"10:24:17"	30.89110	30.89110	30.89110	36.14025
"10:24:32"	30.56887	30.56887	30.56887	35.84621
"10:24:47"	30.89110	30.89110	30.89110	36.02264
"10:25: 2"	30.89110	30.89110	30.89110	36.08145
"10:25:17"	30.62257	30.62257	30.62257	35.78741
"10:25:32"	30.83739	30.83739	30.83739	36.14025
"10:25:47"	30.56887	30.56887	30.56887	35.84621

"10:26:32"	30.89110	30.89110	30.89110	36.14025
"10:26:47"	30.62257	30.62257	30.62257	35.78741
"10:27: 2"	30.56887	30.56887	30.56887	35.84621
"10:27:17"	30.89110	30.89110	30.89110	36.14025
"10:27:32"	30.62257	30.62257	30.62257	35.78741
"10:27:47"	30.56887	30.56887	30.56887	35.90503
"10:28: 2"	30.62257	30.62257	30.62257	35.78741
"10:28:17"	30.72998	30.72998	30.72998	31.67088
"10:28:32"	30.72998	30.72998	30.72998	31.43564
"10:28:47"	30.67628	30.67628	30.67628	31.37684
"10:29: 2"	30.62257	30.62257	30.62257	31.31803
"10:29:17"	30.67628	30.67628	30.67628	31.31803

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 7-8-92
PERSONNEL: M. Kirsch, P. Biggs

WELL/ZONE/TEST: OBR-5 / Zn 1
PROJECT: A+M Rectizon
W.O.: 1119

SETTING DEPTHS	
Point A	108.0'
Top Packer Top	111.3'
Top Packer Bottom	115.5'
Pump Intake	139.7'
Bottom Packer Top	145.4'
Bottom Packer Bottom	149.6'
Assembly Bottom	151.8'

PACKER INFLATION
Top 430 / Bottom 450

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval
current mA-static water level (FT)
4mA-transducer depth (FT)

CONFIGURATION FILENAME

Channel 1	Channel 2	Channel 3
TO	TO	TO
6.828 = 22.34'	6.338 = 22.34'	8.242 = 22.34'
3.8 = 108.0'	3.9 = 143.0'	3.9 = 143.0'

Additional Calibration Notes

TEST SEQUENCE	
Begin Logging -	15:30:00
End Logging -	17:04:03
Start Inflation -	15:31:57
Totalizer Prior -	60550
Totalizer Post -	61591
Begin Pumping -	15:45:00
End Pumping -	16:45:40

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level:

	Pre-inflation	Post-inflation	Pumping Level	Recovery
1	22.55	22.28	22.68	21.49
2	22.39	22.34	24.24	23.21
3	22.45	22.62	22.95	22.67
4				

PUMPING RECORD	
Pumping Zone	
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	
Rate Adjustments	Start 20 gpm / 15:45:59 Adj to 10.25 gpm

COMPUTER DATA RECORD
Test Code:
PRN Filename:
Copy to Client Date and Name:

SLUG TEST SEQUENCE		
Start		
Peak		
Recovery		

SUMMARY

Form 90a

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 7-9-92
PERSONNEL: M. Kinsel, P. Bigas

WELL/ZONE/TEST: OBR-5 / Zn 2
PROJECT: O+M Rectifier
W.O.: 1119

SETTING DEPTHS	
Point A	138.0'
Top Packer Top	141.3'
Top Packer Bottom	145.5'
Pump Intake	169.7'
Bottom Packer Top	175.4'
Bottom Packer Bottom	179.6'
Assembly Bottom	181.8'

PACKER INFLATION
Top: 460 / Bottom: XXX

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval
current mA=static water level (FT)
4mA=transducer depth (FT)

CONFIGURATION FILENAME

Channel 1	Channel 2	Channel 3
TO	TO	TO
7.858 = 22.29'	9.362 = 22.29'	XX = XX
3.8 = 138.00'	3.9 = 173.00'	XX = XX

Additional Calibration Notes

TEST SEQUENCE	
Begin Logging -	9:12:09
End Logging -	11:10:11
Start Inflation -	@9:15
Totalizer Prior -	61591
Totalizer Post -	63456
Begin Pumping -	9:30:00
End Pumping -	11:00:24

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level: 23.41

	Pre-inflation	Post-inflation	Pumping Level	Recovery
1	22.35	21.15	21.43	21.09
2	22.46	23.06	26.48	23.89
3				
4				

PUMPING RECORD	
Pumping Zone	145.5-TD.
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	
Rate Adjustments	Start 14.75 / Adj ↑ to 23.25 gpm at 10:00

COMPUTER DATA RECORD

Test Code:
PRN Filename:
Copy to Client Date and Name:

SLUG TEST SEQUENCE

Start	9:25:40	23.01
Peak	9:26:00	22.73
Recovery	@9:26:15	23.01

SUMMARY

21.26'
22.79
9.19

Form 90a

AR303391

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 7-1-92

PERSONNEL: M. Kusch, P. Bigao, J. Sobelman

WELL/ZONE/TEST: DBR-9/1

PROJECT: D+M Redrum

W.O.: 1119

SETTING DEPTHS	
Point A	42.0'
Top Packer Top	45.3'
Top Packer Bottom	49.5'
Pump Intake	88.8'
Bottom Packer Top	94.5'
Bottom Packer Bottom	98.7'
Assembly Bottom	100.7'
PACKER INFLATION Top	Bottom
X	X

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval

current mA-static water level (FT)

4mA=transducer depth (FT)

CONFIGURATION FILENAME

Channel 1	Channel 2	Channel 3
TO	TO	TO
~~= 7.85~~	6.970 = 7.85'	7.028 = 7.85
=	3.9 = 92.1'	3.9 = 92.1'

Additional Calibration Notes

TEST SEQUENCE

Begin Logging - 16:33:19

End Logging - 17:13.41

Start Inflation - 16:36

Totalizer Prior - 57208

Totalizer Post - 58362

Begin Pumping - 16:46:10

End Pumping - 17:11:42

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level:

	Pre-inflation	Post-inflation	Pumping Level	Recovery
1				
2	≈ 7.85'	8.25	9.39	8.40
3	≈ 7.85'	7.63	7.69	7.74
4				

PUMPING RECORD

Pumping Zone	
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	
Rate Adjustments	1648 2674

COMPUTER DATA RECORD

Test Code:

PRN Filename:

Copy to Client Date and Name:

SLUG TEST SEQUENCE

Start	16:43:40	8.23
Peak	16:44:16	8.01
Recovery	16: :	

SUMMARY

Form 90a

AR303392

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 7/2/92
PERSONNEL: Bigas / Moorehead

WELL/ZONE/TEST: DBR-9/2/1
PROJECT:
W.O.:

SETTING DEPTHS	
Point A	87
Top Packer Top	90.3
Top Packer Bottom	94.5
Pump Intake	133.8
Bottom Packer Top	139.5
Bottom Packer Bottom	143.7
Assembly Bottom	145.7

PACKER INFLATION

Top	Bottom
410	430

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval

current mA=static water level (FT)

4mA=transducer depth (FT)

CONFIGURATION FILENAME: DBR972

Channel 1	Channel 2	Channel 3
mA TO ft	mA TO ft	mA TO ft
6.566 = 7.8	8.546 = 7.8	8.566 = 7.8
3.8 = 87.0	3.9 = 137.1	3.9 = 137.1

Additional Calibration Notes

TEST SEQUENCE	
Begin Logging -	9:24:12
End Logging -	10:01
Start Inflation -	9:26
Totalizer Prior -	58362
Totalizer Post -	58787
Begin Pumping -	9:42
End Pumping -	9:59

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level:

	Pre-inflation	Post-inflation		Pumping Level	Recovery
1	7.74	8.09	8.60	8.49	8.54
2	7.80	7.74	7.69	11.92	7.86
3	7.74	7.36	7.36	7.63	7.52
4	9:24.12	9:31	9:42	9:59	10:01

PUMPING RECORD

Pumping Zone	
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	
Rate Adjustments	2.8GPM 9:50

COMPUTER DATA RECORD

Test Code: BIN 13.714

PRN Filename: DBR9202

Copy to Client Date and Name:

SLUG TEST SEQUENCE

Start	7.74	9:33:00
Peak	7.58	9:33:21
Recovery	7.74	9:33:57

SUMMARY

8.09
7.74
7.36

Form 90a

AR303393

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 7/2/92
PERSONNEL: Bigas/Moorhead

WELL/ZONE/TEST: DBR9/3/1
PROJECT: D&M
W.O.:

SETTING DEPTHS	
Point A	132
Top Packer Top	135.3
Top Packer Bottom	139.5
Pump Intake	178.8
Bottom Packer Top	184.5
Bottom Packer Bottom	188.7
Assembly Bottom	190.7
PACKER INFLATION Top	Bottom
460	

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval

current mA=static water level (FT)

4mA=transducer depth (FT)

CONFIGURATION FILENAME: DBR973.CFG

Channel 1	Channel 2	Channel 3
mA TO ~~ft~~	mA TO ~~ft~~	TO
8.094 = 7.87'	10.110 = 7.87'	=
3.8 = 132'	3.9 = 182.1'	=

Additional Calibration Notes

TEST SEQUENCE	
Begin Logging -	10:45
End Logging -	11:29
Start Inflation -	10:46
Totalizer Prior -	58787
Totalizer Post -	59423
Begin Pumping -	10:59
End Pumping -	11:24

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level:

	Pre-inflation	Post-inflation		Pumping Level	Recovery
1	7.93	8.27	8.33	8.68	8.62
2	7.81	7.42	7.42	8.49	7.53
3	—				
4	10 44.55	10:53	1059	11:24	11:29

PUMPING RECORD	
Pumping Zone	
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	
Rate Adjustments	26 GPM Bumped up packer to 480

COMPUTER DATA RECORD

Test Code: BIN14.714

PRN Filename:

Copy to Client Date and Name:

SLUG TEST SEQUENCE

Start	7.42	10:56:44
Peak	7.36	10:57:15
Recovery	7.42	10:57:44

SUMMARY

8.27
7.42
10:53

Form 90a

AR303394

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 7/6/97
PERSONNEL: Bigos / moorehead

WELL/ZONE/TEST: DBR 2/1
PROJECT: DFM Rectifier
W.O.: 1119

SETTING DEPTHS	
Point A	82.5
Top Packer Top	85.0
Top Packer Bottom	90.0
Pump Intake	114.2
Bottom Packer Top	119.9
Bottom Packer Bottom	124.1
Assembly Bottom	126.1
PACKER INFLATION Top	Bottom

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval

current mA=static water level (FT)

4mA=transducer depth (FT)

CONFIGURATION FILENAME: DBR0221.CFG

Channel 1	Channel 2	Channel 3
TO	TO	TO
= 14.00	7.644 = 14.00'	7.644 = 14.00'
=	3.9 = 117.5	3.9 = 117.5

Additional Calibration Notes

TEST SEQUENCE	
Begin Logging -	11:49
End Logging -	13:59
Start Inflation -	11:52
Totalizer Prior -	59423
Totalizer Post -	
Begin Pumping -	
End Pumping -	

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level:

	Pre-inflation	Post-inflation	Pumping Level	Recovery
1				
2	14.00	14.06		
3	14.06	12.51		
4				

PUMPING RECORD	
Pumping Zone	
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	
Rate Adjustments	

COMPUTER DATA RECORD

Test Code:

PRN Filename:

Copy to Client Date and Name:

SLUG TEST SEQUENCE

Start	14.11	12:00:13
Peak	14.00	12:00:27
Recovery	14.11	12:01:17

SUMMARY

Test Abandoned
Pump, malfunction.

Form 90a

AR303395

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 7/7/97
PERSONNEL: Bigos/Kirsch

WELL/ZONE/TEST: OBR2/2
PROJECT: D/M RCI Iron
W.O.: 1119

SETTING DEPTHS	
Point A	113.0
Top Packer Top	116.3
Top Packer Bottom	120.5
Pump Intake	141.7
Bottom Packer Top	150.4
Bottom Packer Bottom	154.6
Assembly Bottom	156.6

PACKER INFLATION
Top: 450 Bottom: 300

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval

current mA=static water level (FT)

4mA=transducer depth (FT)

CONFIGURATION FILENAME

Channel 1	Channel 2	Channel 3
mA TO Ft	mA TO Ft	mA TO Ft
7.336 = 13.72	8.736 = 13.72	8.728 = 13.72
3.7 = 113	3.9 = 148	3.9 = 148

Additional Calibration Notes

TEST SEQUENCE

Begin Logging - 15:28
End Logging -
Start Inflation - 15:30
Totalizer Prior - 60254
Totalizer Post - 60530
Begin Pumping - 1542
End Pumping - 1555

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level:

	Pre-inflation	Post-inflation	Pumping Level	Recovery
1	~13.71	13.77	13.77	13.88
2	~13.62	13.76	29.66	14.78
3	~13.71	11.54	11.38	11.49
4				

PUMPING RECORD

Pumping Zone	
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	
Rate Adjustments	24.50

COMPUTER DATA RECORD

Test Code: BM16
PRN Filename: OBR2ZU2.PRN
Copy to Client Date and Name:

SLUG TEST SEQUENCE

Start	13.22	15:38:13
Peak	12.22	15:38:34
Recovery	13.22	15:39:45

SUMMARY

7.338 13.83
8.732 13.72
8.720 11.66

Form 90a

AR303396

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 7/8/92
PERSONNEL: Byrns/Kirsch

WELL/ZONE/TEST: DBR2/3
PROJECT: OCM Recticon
W.O.: 1119

SETTING DEPTHS	
Point A	143.0
Top Packer Top	146.3
Top Packer Bottom	150.5
Pump Intake	174.7
Bottom Packer Top	180.4
Bottom Packer Bottom	184.6
Assembly Bottom	186.6

PACKER INFLATION
Top: 460
Bottom:

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval
current mA=static water level (FT)
4mA=transducer depth (FT)

CONFIGURATION FILENAME: DBR223

Channel 1	Channel 2	Channel 3
TO	TO	TO
8.382 = 13.84	9.802 = 13.84	9.760 = 13.84
3.9 = 143	= 178	= 178

Additional Calibration Notes

TEST SEQUENCE	
Begin Logging -	9:05
End Logging -	
Start Inflation -	9:07
Totalizer Prior -	60550
Totalizer Post -	60964
Begin Pumping -	9:14
End Pumping -	9:31

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level:

	Pre-inflation	Post-inflation	Pumping Level	Recovery
1	13.78	13.90	13.90	13.96
2	13.84	11.78	20.07	12.50
3				
4				

PUMPING RECORD	
Pumping Zone	
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	
Rate Adjustments	24.14

COMPUTER DATA RECORD

Test Code: BM 17
PRN Filename:
Copy to Client Date and Name:

SLUG TEST SEQUENCE

Start	11.89	09:11.13
Peak	11.34	9:11:43
Recovery	11.84	9:13.5

7.46

SUMMARY

13.70
11 89

Form 90a

AR303397

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 6-30-92
PERSONNEL: J. Sobehran, P. Bigas, M. Kirsch

WELL/ZONE/TEST: DBR-11/Zn 1
PROJECT: D&M Rectifier
W.O.:

SETTING DEPTHS	
Point A	42.0'
Top Packer Top	45.3'
Top Packer Bottom	49.5'
Pump Intake	78.8'
Bottom Packer Top	84.5'
Bottom Packer Bottom	88.7'
Assembly Bottom	90.7'
PACKER INFLATION Top	Bottom
XX	400

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval
current mA=static water level (FT)
4mA=transducer depth (FT)

CONFIGURATION FILENAME: 6.186

Channel 1	Channel 2	Channel 3
TO	TO	TO
=	6.110 = 22.39'	6.764 = 22.39'
=	3.9 = 82.1'	3.9 = 82.1'

Additional Calibration Notes

TEST SEQUENCE	
Begin Logging -	16:21:44
End Logging -	17:10:38
Start Inflation -	
Totalizer Prior -	56340
Totalizer Post -	
Begin Pumping -	16:38:58
End Pumping -	17:03:57

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level:

	Pre-inflation	Post-inflation	Pumping Level	Recovery
1				
2	22.39	20.98	42.17	21.85
3	C 22.44	21.81	22.71	22.44
4				

PUMPING RECORD	
Pumping Zone	SWL-
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	17:10:38
Rate Adjustments	start 10.5gpm / 16:48:00 adj ↑ to 18.25 / 16:57:34 adj ↑ to 24.5

COMPUTER DATA RECORD

Test Code:
PRN Filename:
Copy to Client Date and Name:

SLUG TEST SEQUENCE

Start	16:34:41	21.04
Peak	16:35:23	20.55
Recovery	16 C 36:00	20.98

SUMMARY

Form 90a

AR303398

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 7-1-92

PERSONNEL: S. Schelman, P. Biggs, M. Kirack

WELL/ZONE/TEST: DBR-11/Zn 2

PROJECT: D+M Restrcon

W.O.: 1119

SETTING DEPTHS	
Point A	77.0'
Top Packer Top	80.3'
Top Packer Bottom	84.5'
Pump Intake	113.8'
Bottom Packer Top	119.5'
Bottom Packer Bottom	123.7'
Assembly Bottom	125.7'

PACKER INFLATION
Top 400 410 / Bottom 420 430

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval

current mA=static water level (FT)

4mA=transducer depth (FT)

CONFIGURATION FILENAME

Channel 1	Channel 2	Channel 3
TO	TO	TO
5.704 = 22.44	7.332 = 22.44	7.338 = 22.44
3.9 = 77.0'	3.9 = 117.1'	3.9 = 117.1'

Additional Calibration Notes

TEST SEQUENCE

Begin Logging - 9:02:

End Logging - 9:46:08

Start Inflation - 9:03

Totalizer Prior - 56772

Totalizer Post - 57116

Begin Pumping - 9:17:35

End Pumping - 9:41:01

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level:

	Pre-inflation	Post-inflation	Pumping Level	Recovery
1	22.44	20.47	20.38	20.43'
2	22.44	21.63	61.05	22.44'
3	22.49	22.72	22.99	23.21'
4				

PUMPING RECORD

Pumping Zone	
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	9:46:08
Rate Adjustments	start 53/4 / adj ↑ at 9:22 to 7 1/4

COMPUTER DATA RECORD

Test Code:

PRN Filename:

Copy to Client Date and Name:

SLUG TEST SEQUENCE

Start	9:10:51	21.83
Peak	9:11:27	20.56
Recovery	9:13:24	21.78

① 5.704 ② 7.332 ③ 7.338

20.49
21.78
22.88
9:08:11

SUMMARY

Form 90a

AR303399

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 7-1-92

PERSONNEL: S. Sobelman, M. Kirsch, P. Bigas

WELL/ZONE/TEST: OBR-11/Zn 3

PROJECT: D&M Rechicon

W.O.: 1119

SETTING DEPTHS	
Point A	113.0'
Top Packer Top	116.3'
Top Packer Bottom	120.5'
Pump Intake	149.8'
Bottom Packer Top	155.5'
Bottom Packer Bottom	159.7'
Assembly Bottom	161.7'

PACKER INFLATION Top	Bottom
440	X X

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval

current mA-static water level (FT)

4mA=transducer depth (FT)

CONFIGURATION FILENAME

Channel 1	Channel 2	Channel 3
TO	TO	TO
6.926 = 22.44	8.560 = 22.44	X
3.8 = 113.0'	3.9 = 153.1'	=

Additional Calibration Notes

TEST SEQUENCE	
Begin Logging - 10:22:06	
End Logging - 11:14	
Start Inflation - 10:23	
Totalizer Prior - 57115	
Totalizer Post - 57708	
Begin Pumping - 10:43	
End Pumping - 11:07:23	

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level:

	Pre-inflation	Post-inflation	Pumping Level	Recovery
1	22.38	21.05	21.22	21.11
2	22.50	22.72	27.15	23.0
3				
4				

PUMPING RECORD	
Pumping Zone	
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	
Rate Adjustments	25 gpm open / 11:14 / 21.11 @ 23.0 /

COMPUTER DATA RECORD

Test Code:

PRN Filename:

Copy to Client Date and Name:

SLUG TEST SEQUENCE

Start	21.05/22.8 10:36:14	
Peak	21.11/22.56 10:37:	
Recovery	21.05/22.78 10:38:56	

SUMMARY

22.17 10:28:29
22.78

Form 90a

AR303400

M

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 6-29-92

PERSONNEL: M. Kirsch, P. Big

WELL/ZONE/TEST: PBR-12 / 21

PROJECT: D&M Recticon

W.O.:

SETTING DEPTHS	
Point A	46.0'
Top Packer Top	49.3
Top Packer Bottom	53.5
Pump Intake	67.6'
Bottom Packer Top	73.3'
Bottom Packer Bottom	77.5'
Assembly Bottom	79.5'

PACKER INFLATION

Top	Bottom
X	X

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval

current mA=static water level (FT)

4mA=transducer depth (FT)

CONFIGURATION FILENAME

Channel 1	Channel 2	Channel 3
TO	TO	TO
=	5.172 = 30.6'	5.504 = 30.6'
=	3.9 = 42.5'	3.9 = 66.9'

Additional Calibration Notes

TEST SEQUENCE	
Begin Logging -	14:38:23
End Logging -	15:53:15
Start Inflation -	14:41:39
Totalizer Prior -	53966
Totalizer Post -	54752
Begin Pumping -	14:59:13
End Pumping -	15:46:12

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level:

	Pre-inflation	Post-inflation	Pumping Level	Recovery
1				
2	30.77	30.53	42.95	32.28
3	30.61	30.66	30.87	30.85
4				

PUMPING RECORD	
Pumping Zone	SWL-73.3'
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	
Rate Adjustments	20 gpm start / 18.5 gpm 15:13 / 15.5 15:50

COMPUTER DATA RECORD

Test Code:

PRN Filename:

Copy to Client Date and Name:

SLUG TEST SEQUENCE

Start	14:52:10	30.51
Peak	14:52:48	30.34
Recovery	14:56:00	30.51

SUMMARY

30.39
30.59
14:49

* 42.5 in Chan #2 should be 70.4'
* 66.9' in Chan #3 should be 70.4'

Look at re-configuring

Form 90a

AR303401

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 6-29-92

PERSONNEL: M. Kirsch, P. Biggs, S.

WELL/ZONE/TEST: DBR-12 / Z2

PROJECT: D+M Rectifier

W.O.#:

SETTING DEPTHS	
Point A	88.0'
Top Packer Top	91.3'
Top Packer Bottom	95.5'
Pump Intake	109.6'
Bottom Packer Top	115.3'
Bottom Packer Bottom	119.5'
Assembly Bottom	121.5'

PACKER INFLATION
Top 410' / Bottom 440'

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval
current mA=static water level (FT)
4mA=transducer depth (FT)

CONFIGURATION FILENAME

Channel 1	Channel 2	Channel 3
TO	TO	TO
6.058 = 30.66'	6.606 = 30.66'	6.906 = 30.66'
3.8 = 88.0'	3.9 = 112.4'	3.9 = 112.4'

Additional Calibration Notes

TEST SEQUENCE	
Begin Logging -	16:32:52
End Logging -	17:44:15
Start Inflation -	@ 16:36
Totalizer Prior -	54752
Totalizer Post -	55303
Begin Pumping -	16:55:48
End Pumping -	@ 17:42:

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level:

	Pre-inflation	Post-inflation	Pumping Level	Recovery
1	30.71'	30.05	30.41'	30.30
2	30.72'	30.36	108.71'	30.48
3	30.66'	30.88	32.35'	32.13
4				

PUMPING RECORD	
Pumping Zone	
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	
Rate Adjustments	Start 9.5 / Adj ↑ to 12.25 at 17:06 / Adj ↑ to 14.50 at 17:30:47

COMPUTER DATA RECORD

Test Code:

PRN Filename:

Copy to Client Date and Name:

SLUG TEST SEQUENCE		
Start	16:50:55	30.30
Peak	16:51:50	28.60
Recovery	16:52:33	30.30

SUMMARY

71.0

Form 90a

AR303402

PACKER TESTING FIELD INFORMATION
EACH TEST

DATE: 6-30-92

WELL/ZONE/TEST: DBR-12 / 2 & 3

PERSONNEL: M. Kirsch, P. Bigas, J. Sabelman

PROJECT: D+M Recovery

W.O.:

SETTING DEPTHS	
Point A	139.0'
Top Packer Top	142.3'
Top Packer Bottom	146.5'
Pump Intake	160.6'
Bottom Packer Top	166.3'
Bottom Packer Bottom	170.5'
Assembly Bottom	172.5'
PACKER INFLATION Top 440 / Bottom 460	

DATA COLLECTION CALIBRATION

Top of interval TO bottom of interval

current mA=static water level (FT)

4mA=transducer depth (FT)

CONFIGURATION FILENAME

Channel 1	Channel 2	Channel 3
TO	TO	TO
7,832 = 30.73'	9,412 = 30.73'	8,624 = 30.73'
3.8mA = 139.0'	3.9mA = 163.4'	3.9mA = 163.4'

Additional Calibration Notes

Tom Brown

TEST SEQUENCE	
Begin Logging -	9:27:03
End Logging -	10:29:36
Start Inflation -	9:28
Totalizer Prior -	55302
Totalizer Post -	56340
Begin Pumping -	9:44:32
End Pumping -	10:28:08

HYDRAULIC HEAD DISTRIBUTION

Open Hole Static Water Level:

	Pre-inflation	Post-inflation	Pumping Level	Recovery
1	30.78	30.25	30.78	30.62
2	30.73	30.91	36.14	31.26
3	30.73	30.90	31.74	31.35
4				

PUMPING RECORD	
Pumping Zone	146.5-166.3'
Pumping Rate	
Pumping Duration	
Maximum Drawdown	
Specific Capacity	
Nature of Discharge	
Time of Recovery	
Rate Adjustments	Start @ / 9:45:36 adj ↑ to 21 / 9:46:26 adj ↑ to 24.25

COMPUTER DATA RECORD

Test Code:

PRN Filename:

Copy to Client Date and Name:

SLUG TEST SEQUENCE

Start	9:39:42	30.91
Peak	9:40:17	30.55
Recovery	9:40:54	30.91

SUMMARY

Form 90a

AR303403

APPENDIX R

EPA COMMENT LETTER CONCERNING WELL MODIFICATIONS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
841 Chestnut Building
Philadelphia, Pennsylvania 19107

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

In Reply Refer To: 3HW21

Dr. Richard Reisenweber (110-SG05)
Environmental Remediation
Rockwell International Corporation
2201 Seal Beach Boulevard
P.O. Box 2515
Seal Beach, California 90740

August 7, 1992

Re: Recticon/Allied Steel Site
Parkerford, PA

Dear Dr. Reisenweber:

We have completed our review of Dames & Moore's (D&M) facsimile letter of July 31, 1992, regarding your proposal for modifying the deep bedrock (DBR) monitoring wells for the referenced project. These comments were discussed with D&M during a teleconference on August 6, 1992.

The purpose of this letter is to forward the review comments provided by members of the EPA project team. These comments are based on our review of the July 31, 1992 letter and the tentative agreement reached during the discussion that ensued on August 6, 1992.

DBR-5: Since a well cluster exists (OB-5 and BR-5) at this location that monitors the upper zones, we agree with the plan to screen DBR-5 from 160-200 ft.

DBR-9: D&M recommended screening a large interval (110-170 ft) to monitor both the lower and middle zones. However, since Zone 2 has the highest TCE contamination and Zone 3 has the highest specific capacity with an upward vertical gradient, we recommend that these zones be monitored discreetly with screens placed at 115-125 ft and 150-175 ft, respectively.

DBR-10: Since this well is apparently on the edge of the plume and only the shallow zone was contaminated, the proposal to screen the upper zone only is acceptable.

DBR-11: In addition to the lower zone chosen for screening by D&M, we also recommend that the interval from 40-90 ft be screened. This is because this well is near the upward edge of

the plume and since there is a downward vertical gradient, the contamination in the upper zone is real and consequently needs to be monitored.

DBR-12: For the same reasons as noted in DBR-11, the upper zone from 50-75 ft needs to be screened and monitored. In addition, the D&M contention that lower zone concentration will dissipate can not be proven without actual data. Consequently the lower zone also needs to be screened from 150-190 ft.

Since a number of above locations require two screening intervals, well completion can occur by either drilling additional boreholes or completing the existing boreholes with two smaller diameter risers. The suggestion by D&M to use a gravel pack and 30 slot screens is acceptable. If the above recommendations are acceptable to Rockwell, then this letter can serve as EPA approval to proceed with the well modifications as noted within the text of this letter.

To date, we have not received your response to EPA's letters dated June 19, 1992 and July 7, 1992 concerning D&M's report on soil contamination at the site and the need to characterize the pumping wells, respectively. Your timely response to these letters is critical.

Interpretation of data generated during the upcoming pump test will be complicated by the impacts from the open borehole pumping wells. Consequently, it is imperative that these wells be characterized to determine if they require modification or abandonment prior to the pump test. Similarly, the issue concerning the impacts of soil contamination to groundwater needs to be resolved to ensure the existing RI/FS schedule is met.

Please feel free to contact me at (215) 597-8309 if you have any questions concerning this correspondence.

Sincerely,

David G. Byro

David G. Byro, Project Manager
S.E. Pennsylvania Section (3HW21)

cc: J. Carmody, Rockwell
K. Hess, PADER
M. Edelman, Dames & Moore
R. Golia, Dames & Moore
T. Vellios, Dynamac

TOTAL P.003

APPENDIX T

GROUNDWATER SAMPLING ANALYTICAL DATA

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**fib > 5 um/ml**	fibers greater than 5 microns in length per ml

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TIC's only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

WARRANTY AND LIMITATION OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. We disclaim any other warranties, express or implied, including a Warranty of Fitness for Particular Purpose and Warranty of Merchantability. We accept no responsibilty for the purpose for which the client uses the test results. No purchase order or other order for work shall be accepted by the company with any conditions that vary from our Standard Terms and Conditions. If Lancaster Laboratories performs work requested by the client, conditions at variance to our Standard Terms and Conditions are not part of the contract.

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Analysis Request/Environmental Services

Chain of Custody

Lancaster Laboratories
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Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: PANGEA moore — Acct. #: 4085
Project Name/#: Rockwell / 10839-126
Project Manager: M. GOELMAN — P.O. #: 104/3445
Sampler: J. Volpe — Quote #:

For LLI use only
FSC:
SCR #:

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	Reg VOC	U VOC	Remarks
DBR-9D	9/10/92	1025	X			X		3	X	X	
DBR-11S		1110									
DBR-10		1230									
BR-1		1415									
~~OB-1~~											
BR-2		1535									
OB-2		1450									
OB-3		1730						2			
BR-3		1700						3			

(7)
Turnaround time requested (please circle): Normal Rush
(Rush TAT is subject to LLI approval and surcharge.)

Rush results requested by (please circle):
Fax — Fax #:
Phone — Phone #:

(8)
Data package options (please circle if requested):
QC Summary
Tier I (NJ)
Tier II (NJ)
EPA CLP

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)

Data Package Chain of Custody required? Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
Tom Mills	9/9/92	0915			
[illegible]	9/10/92	1000	Tom Mills	9/10/92	1155
Tom Mills	9/10/92	1905			
			Doug Hoffman	[illegible]	1900

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

Copies: White and Yellow copies accompany sample

Analysis Request/Environmental Services

1868474-488

Lancaster Laboratories
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Chain of Custody

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: DAMES & MOORE
Acct. #: 4085
Project Name/#: Rockwell / 10839-126
Project Manager: M. EDELMAN
P.O. #: 104/345
Sampler: J. Volpe
Quote #:

For LLI use only
FSC:
SCR #:

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Matrix (4) Soil	Water	Other	Total # of Containers	(5) Analyses Requested: Reg VOC	UVOC I							(6) Remarks
OB-5	9/9/92	1230	X			X		3	X	X							
BR-8		1455						3									
DBR-110		1615						3									
FB-1		1430						3									
BR-9S		1715						3									

AR303411

(7)
Turnaround time requested (please circle): Normal Rush
(Rush TAT is subject to LLI approval and surcharge.)

Rush results requested by (please circle):
Fax Fax #:
Phone Phone #:

(8)
Data package options (please circle if requested):
QC Summary
Tier I (NJ)
Tier II (NJ)
EPA CLP

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)

Data Package Chain of Custody required?
Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9-9-92	09:15			
Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/10/92	1000	[signature]	9/10/92	11:55
Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/10/92	1915			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received for LLI by:	Date	Time
			Doug Hoffman	9/10/92	1900

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LLI LAB CHRONICLE

Analysis		Trial	Analysis Date

LLI Sample # 1868474
Dames & Moore - PA

OB-5 Unspiked Grab Water Sample
Rockwell/10839-126
Collected 09/09/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/21/92
1033	Unregulated VOC's (List 1)	1	09/21/92

LLI Sample # 1868475
Dames & Moore - PA

OB-5 Matrix Spike Grab Water Sample
Rockwell/10839-126
Collected 09/09/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/21/92
1033	Unregulated VOC's (List 1)	1	09/21/92

LLI Sample # 1868476
Dames & Moore - PA

OB-5 Matrix Spike Duplicate Grab Water Sample
Rockwell/10839-126
Collected 09/09/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/21/92
1033	Unregulated VOC's (List 1)	1	09/21/92

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Lancaster, PA 17601-5994
717-656-2301

See reverse side for explanation of symbols and abbreviations

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LLI LAB CHRONICLE

Analysis		Trial	Analysis Date
LLI Sample # 1868477			
Dames & Moore - PA			
BR-8 Grab Water Sample			
Rockwell/10839-126			
Collected 09/09/92 by JV			
Receipt/Refrigeration: 09/15/92			
1032	Regulated Volatile Organics	1	09/22/92
1033	Unregulated VOC's (List 1)	1	09/22/92
LLI Sample # 1868478			
Dames & Moore - PA			
DBR-110 Grab Water Sample			
Rockwell/10839-126			
Collected 09/09/92 by JV			
Receipt/Refrigeration: 09/15/92			
1032	Regulated Volatile Organics	1	09/22/92
1033	Unregulated VOC's (List 1)	1	09/22/92
LLI Sample # 1868479			
Dames & Moore - PA			
FB-1 Grab Water Sample			
Rockwell/10839-126			
Collected 09/09/92 by JV			
Receipt/Refrigeration: 09/15/92			
1032	Regulated Volatile Organics	1	09/23/92
1033	Unregulated VOC's (List 1)	1	09/23/92

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2216
9 13 90

Analysis Report

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Analysis		Trial	Analysis Date

LLI Sample # 1868480
Dames & Moore - PA

DBR-9S Grab Water Sample
Rockwell/10839-126
Collected 09/09/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/23/92
1033	Unregulated VOC's (List 1)	1	09/23/92

LLI Sample # 1868481
Dames & Moore - PA

DBR-9D Grab Water Sample
Rockwell/10839-126
Collected 09/10/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/24/92
1033	Unregulated VOC's (List 1)	1	09/24/92

LLI Sample # 1868482
Dames & Moore - PA

DBR-11S Grab Water Sample
Rockwell/10839-126
Collected 09/10/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/24/92
1033	Unregulated VOC's (List 1)	1	09/24/92

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Lancaster PA 17601-5994

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Analysis		Trial	Analysis Date

LLI Sample # 1868483
Dames & Moore - PA

DBR-10 Grab Water Sample
Rockwell/10839-126
Collected 09/10/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/24/92
1033	Unregulated VOC's (List 1)	1	09/24/92

LLI Sample # 1868484
Dames & Moore - PA

BR-1 Grab Water Sample
Rockwell/10839-126
Collected 09/10/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/24/92
1033	Unregulated VOC's (List 1)	1	09/24/92

LLI Sample # 1868485
Dames & Moore - PA

BR-2 Grab Water Sample
Rockwell/10839-126
Collected 09/10/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/24/92
1033	Unregulated VOC's (List 1)	1	09/24/92

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Analysis		Trial	Analysis Date
LLI Sample # 1868486			
Dames & Moore - PA			
OB-2 Grab Water Sample			
Rockwell/10839-126			
Collected 09/10/92 by JV			
Receipt/Refrigeration: 09/15/92			
1032	Regulated Volatile Organics	1	09/24/92
1033	Unregulated VOC's (List 1)	1	09/24/92
LLI Sample # 1868487			
Dames & Moore - PA			
OB-3 Grab Water Sample			
Rockwell/10839-126			
Collected 09/10/92 by JV			
Receipt/Refrigeration: 09/15/92			
1032	Regulated Volatile Organics	1	09/24/92
1033	Unregulated VOC's (List 1)	1	09/24/92
LLI Sample # 1868488			
Dames & Moore - PA			
BR-3 Grab Water Sample			
Rockwell/10839-126			
Collected 09/10/92 by JV			
Receipt/Refrigeration: 09/15/92			
1032	Regulated Volatile Organics	1	09/24/92
1033	Unregulated VOC's (List 1)	1	09/24/92

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Lancaster, PA 17601-5994
717-656-2301

See reverse side for explanation of symbols and abbreviations

METHODOLOGY SUMMARY/REFERENCE

1032 Regulated VOCs (water)

Using a purge and trap device, the volatile compounds are transferred from the sample to a gas chromatograph where they are separated and detected by a photoionization and electrolytic conductivity detector in series.

Reference: 40 CFR Part 141-142, EPA Method 502.2

****

1033 Unregulated VOCs List 1 (water)

Using a purge and trap device, the volatile compounds are transferred from the sample to a gas chromatograph where they are separated and detected by a photoionization and electrolytic conductivity detector in series.

Reference: 40 CFR Part 141-142, EPA Method 502.2

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Analysis Report

Lancaster Laboratories
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12:02:38 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868474
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

OB-5 Unspiked Grab Water Sample
Rockwell/10839-126

OB-5- SDG# RAS13-01BK

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by ACH on 09/21/92.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 40.00 032000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

9

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303418

See reverse side for explanation of symbols and abbreviations

*2216

Lancaster Laboratories
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12:02:40 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868474
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

OB-5 Unspiked Grab Water Sample
Rockwell/10839-126

OB-5- SDG# RAS13-01BK Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000S
Vinyl chloride	N.D.	ug/l	0.5	313700000S
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000S
1,2-Dichloroethane	0.9	ug/l	0.5	313900000S
1,1,1-Trichloroethane	1.7	ug/l	0.5	314000000S
Carbon tetrachloride	N.D.	ug/l	0.5	314100000S
Trichloroethene	26.	ug/l	0.5	314200000S
p-Dichlorobenzene	N.D.	ug/l	0.5	103600000S

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

10

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303419

See reverse side for explanation of symbols and abbreviations.

Analysis Report

Lancaster Laboratories
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12:02:42 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868474
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

OB-5 Unspiked Grab Water Sample
Rockwell/10839-126

OB-5- SDG# RAS13-01BK Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000S
Bromodichloromethane	N.D.	ug/l	0.5	314600000S
Bromoform	N.D.	ug/l	0.5	315200000S
Bromomethane	N.D.	ug/l	0.5	314800000S
Chlorobenzene	N.D.	ug/l	0.5	103800000S
Dibromochloromethane	N.D.	ug/l	0.5	314700000S
Chloroethane	N.D.	ug/l	0.5	103900000S
Chloroform	N.D.	ug/l	0.5	314500000S
Chloromethane	N.D.	ug/l	0.5	104000000S
o-Chlorotoluene	N.D.	ug/l	0.5	104100000S
p-Chlorotoluene	N.D.	ug/l	0.5	104200000S
Dibromomethane	N.D.	ug/l	0.5	107400000S
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000S
Dichlorobenzene	N.D.	ug/l	0.5	107600000S
trans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000S
cis-1,2-Dichloroethylene	16.	ug/l	0.5	107800000S
Dichloromethane	N.D.	ug/l	0.5	107900000S
1,1-Dichloroethane	2.2	ug/l	0.5	314900000S
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000S
1,2-Dichloropropane	N.D.	ug/l	0.5	315000000S
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000S
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000S
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000S
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000S
Ethylbenzene	N.D.	ug/l	0.5	314400000S
Styrene	N.D.	ug/l	0.5	108400000S
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000S
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000S
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000S
Tetrachloroethene	N.D.	ug/l	0.5	315400000S
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000S
Toluene	0.5	ug/l	0.5	314300000S
o-Xylene	N.D.	ug/l	0.5	315500000S
m-Xylene	N.D.	ug/l	0.5	315600000S
p-Xylene	N.D.	ug/l	0.5	315700000S

Lancaster Laboratories is certified by Pennsylvania Department of

Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303420

Analysis Report

Lancaster Laboratories
Where quality is a science.

12:02:42 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868474
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

OB-5 Unspiked Grab Water Sample
Rockwell/10839-126

OB-5- SDG# RAS13-01BK	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

12

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303421

See reverse side for explanation of symbols and abbreviations.

2216

Analysis Report

Lancaster Laboratories
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12:02:46 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868475
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

OB-5 Matrix Spike Grab Water Sample
Rockwell/10839-126

OB-5- SDG# RAS13-01MS ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DWW on 09/21/92.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 028000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303422

See reverse side for explanation of symbols and abbreviations

2216

Analysis Report

Lancaster Laboratories
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12:02:48 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868475
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

OB-5 Matrix Spike Grab Water Sample
Rockwell/10839-126

OB-5- SDG# RAS13-01MS Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	6.8	ug/l	0.5	313600000S
Vinyl chloride	18.	ug/l	0.5	313700000S
1,1-Dichloroethene	6.5	ug/l	0.5	313800000S
1,2-Dichloroethane	7.6	ug/l	0.5	313900000N
1,1,1-Trichloroethane	11.	ug/l	0.5	314000000N
Carbon tetrachloride	7.7	ug/l	0.5	314100000N
Trichloroethene	34.	ug/l	0.5	314200000N
p-Dichlorobenzene	7.4	ug/l	0.5	103600000N

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994

Lancaster Laboratories
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12:02:51 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868475
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

OB-5 Matrix Spike Grab Water Sample
Rockwell/10839-126

OB-5- SDG# RAS13-01MS Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000S
Bromodichloromethane	8.6	ug/l	0.5	314600000S
Bromoform	8.0	ug/l	0.5	315200000S
Bromomethane	22.	ug/l	0.5	314800000N
Chlorobenzene	9.3	ug/l	0.5	103800000N
Dibromochloromethane	8.5	ug/l	0.5	314700000N
Chloroethane	15.	ug/l	0.5	103900000N
Chloroform	7.2	ug/l	0.5	314500000N
Chloromethane	25.	ug/l	0.5	104000000N
o-Chlorotoluene	6.2	ug/l	0.5	104100000N
p-Chlorotoluene	7.0	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	7.3	ug/l	0.5	107500000N
-Dichlorobenzene	8.1	ug/l	0.5	107600000N
.rans-1,2-Dichloroethylene	7.4	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	27.	ug/l	0.5	107800000N
Dichloromethane	10.	ug/l	0.5	107900000N
1,1-Dichloroethane	9.4	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	8.4	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	11.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	6.6	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	9.8	ug/l	0.5	314400000N
Styrene	9.9	ug/l	0.5	108400000N
1,1,2-Trichloroethane	7.4	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	8.8	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	6.9	ug/l	0.5	315300000N
Tetrachloroethene	7.6	ug/l	0.5	315400000N
1,2,3-Trichloropropane	6.3	ug/l	0.5	108600000N
Toluene	8.8	ug/l	0.5	314300000N
o-Xylene	8.9	ug/l	0.5	315500000N
m-Xylene	9.1	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
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12:02:51 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868475
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

OB-5 Matrix Spike Grab Water Sample
Rockwell/10839-126

OB-5- SDG# RAS13-01MS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1) Environmental Resources (#36-037) for water testing.			

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

16

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303425

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Analysis Report

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12:02:55 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868476
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

OB-5 Matrix Spike Duplicate Grab Water Sample
Rockwell/10839-126

OB-5- SDG# RAS13-01MS ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DWW on 09/21/92.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 028000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

17

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303426

See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
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12:02:57 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868476
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

OB-5 Matrix Spike Duplicate Grab Water Sample
Rockwell/10839-126

OB-5- SDG# RAS13-01MS Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	6.6	ug/l	0.5	313600000S
Vinyl chloride	10.	ug/l	0.5	313700000S
1,1-Dichloroethene	5.7	ug/l	0.5	313800000S
1,2-Dichloroethane	8.7	ug/l	0.5	313900000N
1,1,1-Trichloroethane	8.8	ug/l	0.5	314000000N
Carbon tetrachloride	7.6	ug/l	0.5	314100000N
Trichloroethene	35.	ug/l	0.5	314200000N
p-Dichlorobenzene	7.4	ug/l	0.5	103600000N

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

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COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

18

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303427

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Analysis Report

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12:03:00 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868476
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

OB-5 Matrix Spike Duplicate Grab Water Sample
Rockwell/10839-126

OB-5- SDG# RAS13-01MS Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000S
Bromodichloromethane	6.9	ug/l	0.5	314600000S
Bromoform	6.2	ug/l	0.5	315200000S
Bromomethane	24.	ug/l	0.5	314800000N
Chlorobenzene	8.4	ug/l	0.5	103800000N
Dibromochloromethane	5.9	ug/l	0.5	314700000N
Chloroethane	21.	ug/l	0.5	103900000N
Chloroform	7.6	ug/l	0.5	314500000N
Chloromethane	14.	ug/l	0.5	104000000N
o-Chlorotoluene	6.2	ug/l	0.5	104100000N
p-Chlorotoluene	6.8	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	7.2	ug/l	0.5	107500000N
·Dichlorobenzene	8.8	ug/l	0.5	107600000N
trans-1,2-Dichloroethylene	7.1	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	25.	ug/l	0.5	107800000N
Dichloromethane	5.3	ug/l	0.5	107900000N
1,1-Dichloroethane	9.2	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	8.1	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	10.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	6.0	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	9.8	ug/l	0.5	314400000N
Styrene	9.8	ug/l	0.5	108400000N
1,1,2-Trichloroethane	7.4	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	7.4	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	7.2	ug/l	0.5	315300000N
Tetrachloroethene	7.1	ug/l	0.5	315400000N
1,2,3-Trichloropropane	6.7	ug/l	0.5	108600000N
Toluene	8.8	ug/l	0.5	314300000N
o-Xylene	8.8	ug/l	0.5	315500000N
m-Xylene	9.0	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303428

See reverse side for explanation of symbols and abbreviations.

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12:03:00 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868476
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

OB-5 Matrix Spike Duplicate Grab Water Sample
Rockwell/10839-126

OB-5- SDG# RAS13-01MS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1) Environmental Resources (#36-037) for water testing.			

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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2216
9 10 90

Analysis Report

Lancaster Laboratories
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12:03:06 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868477
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1455
P.O. 1041343
Rel.

BR-8 Grab Water Sample
Rockwell/10839-126

BR-8- SDG# RAS13-02

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by KLB on 09/22/92.

Due to dilution of the sample made necessary by the high level of trichloroethene, normal quantitation limits were not attained.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 028000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303430

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
Where quality is a science.

12:03:08 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868477
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1455
P.O. 1041343
Rel.

BR-8 Grab Water Sample
Rockwell/10839-126

BR-8- SDG# RAS13-02 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	10.	313600000S
Vinyl chloride	N.D.	ug/l	10.	313700000S
1,1-Dichloroethene	N.D.	ug/l	10.	313800000S
1,2-Dichloroethane	N.D.	ug/l	10.	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	10.	314000000N
Carbon tetrachloride	N.D.	ug/l	10.	314100000N
Trichloroethene	670.	ug/l	10.	314200000N
p-Dichlorobenzene	N.D.	ug/l	10.	103600000N

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994

AR303431

Analysis Report

Lancaster Laboratories
Where quality is a science.

12:03:10 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868477
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1455
P.O. 1041343
Rel.

BR-8 Grab Water Sample
Rockwell/10839-126

BR-8- SDG# RAS13-02 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	10.	103700000S
Bromodichloromethane	N.D.	ug/l	10.	314600000S
Bromoform	N.D.	ug/l	10.	315200000S
Bromomethane	N.D.	ug/l	10.	314800000N
Chlorobenzene	N.D.	ug/l	10.	103800000N
Dibromochloromethane	N.D.	ug/l	10.	314700000N
Chloroethane	N.D.	ug/l	10.	103900000N
Chloroform	N.D.	ug/l	10.	314500000N
Chloromethane	N.D.	ug/l	10.	104000000N
o-Chlorotoluene	N.D.	ug/l	10.	104100000N
p-Chlorotoluene	N.D.	ug/l	10.	104200000N
Dibromomethane	N.D.	ug/l	10.	107400000N
m-Dichlorobenzene	N.D.	ug/l	10.	107500000N
o-Dichlorobenzene	N.D.	ug/l	10.	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	10.	107700000N
cis-1,2-Dichloroethylene	500.	ug/l	10.	107800000N
Dichloromethane	N.D.	ug/l	10.	107900000N
1,1-Dichloroethane	N.D.	ug/l	10.	314900000N
1,1-Dichloropropene	N.D.	ug/l	10.	108000000N
1,2-Dichloropropane	N.D.	ug/l	10.	315000000N
1,3-Dichloropropane	N.D.	ug/l	10.	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	10.	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	10.	453100000N
2,2-Dichloropropane	N.D.	ug/l	10.	108300000N
Ethylbenzene	N.D.	ug/l	10.	314400000N
Styrene	N.D.	ug/l	10.	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	10.	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	10.	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	10.	315300000N
Tetrachloroethene	N.D.	ug/l	10.	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	10.	108600000N
Toluene	N.D.	ug/l	10.	314300000N
o-Xylene	N.D.	ug/l	10.	315500000N
m-Xylene	N.D.	ug/l	10.	315600000N
p-Xylene	N.D.	ug/l	10.	315700000N

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303432

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
Where quality is a science.

12:03:10 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868477
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1455
P.O. 1041343
Rel.

BR-8 Grab Water Sample
Rockwell/10839-126

BR-8- SDG# RAS13-02	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1) Environmental Resources (#36-037) for water testing.			

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

24

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303433

See reverse side for explanation of symbols and abbreviations.

Analysis Report

Lancaster Laboratories
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12:03:16 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868478
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1615
P.O. 1041343
Rel.

DBR-110 Grab Water Sample
Rockwell/10839-126

110-- SDG# RAS13-03 ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DWW on 09/22/92.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 028000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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AR303434

* 2216
9 13 90

Analysis Report

Lancaster Laboratories
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12:03:18 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868478
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1615
P.O. 1041343
Rel.

DBR-110 Grab Water Sample
Rockwell/10839-126

110-- SDG# RAS13-03 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000S
Vinyl chloride	N.D.	ug/l	0.5	313700000S
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000S
1,2-Dichloroethane	N.D.	ug/l	0.5	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	0.5	314000000N
Carbon tetrachloride	N.D.	ug/l	0.5	314100000N
Trichloroethene	78.	ug/l	3.	314200000N
p-Dichlorobenzene	N.D.	ug/l	0.5	103600000N

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

26

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

See reverse side for explanation of symbols and abbreviations.

AR303435

2216

Analysis Report

Lancaster Laboratories
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12:03:21 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868478
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1615
P.O. 1041343
Rel.

DBR-110 Grab Water Sample
Rockwell/10839-126

110-- SDG# RAS13-03 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000S
Bromodichloromethane	N.D.	ug/l	0.5	314600000S
Bromoform	N.D.	ug/l	0.5	315200000S
Bromomethane	N.D.	ug/l	0.5	314800000N
Chlorobenzene	N.D.	ug/l	0.5	103800000N
Dibromochloromethane	N.D.	ug/l	0.5	314700000N
Chloroethane	N.D.	ug/l	0.5	103900000N
Chloroform	N.D.	ug/l	0.5	314500000N
Chloromethane	N.D.	ug/l	0.5	104000000N
o-Chlorotoluene	N.D.	ug/l	0.5	104100000N
p-Chlorotoluene	N.D.	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000N
o-Dichlorobenzene	N.D.	ug/l	0.5	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	17.	ug/l	0.5	107800000N
Dichloromethane	N.D.	ug/l	0.5	107900000N
1,1-Dichloroethane	N.D.	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	N.D.	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	N.D.	ug/l	0.5	314400000N
Styrene	N.D.	ug/l	0.5	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000N
Tetrachloroethene	N.D.	ug/l	0.5	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000N
Toluene	N.D.	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	N.D.	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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AR303436

2216

Analysis Report

Lancaster Laboratories
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12:03:21 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868478
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1615
P.O. 1041343
Rel.

DBR-110 Grab Water Sample
Rockwell/10839-126

110-- SDG# RAS13-03	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			
Environmental Resources (#36-037) for water testing.			

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

28

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303437

See reverse side for explanation of symbols and abbreviations.

2216
9 13 90

Analysis Report

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12:03:27 352735.
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868479
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1430
P.O. 1041343
Rel.

FB-1 Grab Water Sample
Rockwell/10839-126

FB-1R SDG# RAS13-04

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by KLB on 09/23/92.

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 028000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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12:03:29 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868479
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1430
P.O. 1041343
Rel.

FB-1 Grab Water Sample
Rockwell/10839-126

FB-1R SDG# RAS13-04 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000S
Vinyl chloride	N.D.	ug/l	0.5	313700000S
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000S
1,2-Dichloroethane	N.D.	ug/l	0.5	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	0.5	314000000N
Carbon tetrachloride	N.D.	ug/l	0.5	314100000N
Trichloroethene	N.D.	ug/l	0.5	314200000N
p-Dichlorobenzene	< 0.5	ug/l	0.5	103600000N

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

30

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303439

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Analysis Report

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12:03:32 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868479
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1430
P.O. 1041343
Rel.

FB-1 Grab Water Sample
Rockwell/10839-126

FB-1R SDG# RAS13-04 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000S
Bromodichloromethane	< 0.5	ug/l	0.5	314600000S
Bromoform	N.D.	ug/l	0.5	315200000S
Bromomethane	N.D.	ug/l	0.5	314800000N
Chlorobenzene	N.D.	ug/l	0.5	103800000N
Dibromochloromethane	N.D.	ug/l	0.5	314700000N
Chloroethane	N.D.	ug/l	0.5	103900000N
Chloroform	5.4	ug/l	0.5	314500000N
Chloromethane	N.D.	ug/l	0.5	104000000N
o-Chlorotoluene	N.D.	ug/l	0.5	104100000N
p-Chlorotoluene	N.D.	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000N
o-Dichlorobenzene	N.D.	ug/l	0.5	107600000N
rans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	N.D.	ug/l	0.5	107800000N
Dichloromethane	1.6	ug/l	0.5	107900000N
1,1-Dichloroethane	N.D.	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	N.D.	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	N.D.	ug/l	0.5	314400000N
Styrene	N.D.	ug/l	0.5	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000N
Tetrachloroethene	N.D.	ug/l	0.5	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000N
Toluene	1.5	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	N.D.	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

31

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303440

See reverse side for explanation of symbols and abbreviations

Analysis Report

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12:03:32 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868479
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1430
P.O. 1041343
Rel.

FB-1 Grab Water Sample
Rockwell/10839-126

FB-1R SDG# RAS13-04	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303441

See reverse side for explanation of symbols and abbreviations.

Analysis Report

Lancaster Laboratories
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12:03:40 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868480
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1715
P.O. 1041343
Rel.

DBR-9S Grab Water Sample
Rockwell/10839-126

9S--- SDG# RAS13-05 ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DWW on 09/23/92.

Due to dilution of the sample made necessary by the high level of trichloroethene, normal quantitation limits were not attained.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

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Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 028000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303442

See reverse side for explanation of symbols and abbreviations.

2216
9 13 90

Analysis Report

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12:03:42 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868480
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1715
P.O. 1041343
Rel.

DBR-9S Grab Water Sample
Rockwell/10839-126

9S--- SDG# RAS13-05 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	10.	313600000S
Vinyl chloride	N.D.	ug/l	10.	313700000S
1,1-Dichloroethene	N.D.	ug/l	10.	313800000S
1,2-Dichloroethane	N.D.	ug/l	10.	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	10.	314000000N
Carbon tetrachloride	N.D.	ug/l	10.	314100000N
Trichloroethene	860.	ug/l	10.	314200000N
p-Dichlorobenzene	N.D.	ug/l	10.	103600000N

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303443

See reverse side for explanation of symbols and abbreviations.

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12:03:47 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868480
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1715
P.O. 1041343
Rel.

DBR-9S Grab Water Sample
Rockwell/10839-126

9S--- SDG# RAS13-05 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	10.	103700000S
Bromodichloromethane	N.D.	ug/l	10.	314600000S
Bromoform	N.D.	ug/l	10.	315200000S
Bromomethane	N.D.	ug/l	10.	314800000N
Chlorobenzene	N.D.	ug/l	10.	103800000N
Dibromochloromethane	N.D.	ug/l	10.	314700000N
Chloroethane	N.D.	ug/l	10.	103900000N
Chloroform	N.D.	ug/l	10.	314500000N
Chloromethane	N.D.	ug/l	10.	104000000N
o-Chlorotoluene	N.D.	ug/l	10.	104100000N
p-Chlorotoluene	N.D.	ug/l	10.	104200000N
Dibromomethane	N.D.	ug/l	10.	107400000N
m-Dichlorobenzene	N.D.	ug/l	10.	107500000N
o-Dichlorobenzene	N.D.	ug/l	10.	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	10.	107700000N
cis-1,2-Dichloroethylene	220.	ug/l	10.	107800000N
Dichloromethane	N.D.	ug/l	10.	107900000N
1,1-Dichloroethane	N.D.	ug/l	10.	314900000N
1,1-Dichloropropene	N.D.	ug/l	10.	108000000N
1,2-Dichloropropane	N.D.	ug/l	10.	315000000N
1,3-Dichloropropane	N.D.	ug/l	10.	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	10.	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	10.	453100000N
2,2-Dichloropropane	N.D.	ug/l	10.	108300000N
Ethylbenzene	N.D.	ug/l	10.	314400000N
Styrene	N.D.	ug/l	10.	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	10.	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	10.	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	10.	315300000N
Tetrachloroethene	N.D.	ug/l	10.	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	10.	108600000N
Toluene	N.D.	ug/l	10.	314300000N
o-Xylene	N.D.	ug/l	10.	315500000N
m-Xylene	N.D.	ug/l	10.	315600000N
p-Xylene	N.D.	ug/l	10.	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

See reverse side for explanation of symbols and abbreviations.

Analysis Report

Lancaster Laboratories
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12:03:47 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868480
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/ 9/92 by JV
Time Collected 1715
P.O. 1041343
Rel.

DBR-9S Grab Water Sample
Rockwell/10839-126

9S--- SDG# RAS13-05	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1) Environmental Resources (#36-037) for water testing.			

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

36

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303445

See reverse side for explanation of symbols and abbreviations.

Analysis Report

Lancaster Laboratories
Where quality is a science.

12:03:57 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868481
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1025
P.O. 1041343
Rel.

DBR-9D Grab Water Sample
Rockwell/10839-126

9D--- SDG# RAS13-06

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DWW on 09/24/92.

Due to dilution of the sample made necessary by the high level of trichloroethene, normal quantitation limits were not attained.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 028000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

37

Lancaster Laboratories Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303446

See reverse side for explanation of symbols and abbreviations

2216

Analysis Report

Lancaster Laboratories
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12:04:01 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868481
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1025
P.O. 1041343
Rel.

DBR-9D Grab Water Sample
Rockwell/10839-126

9D--- SDG# RAS13-06 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	5.	313600000S
Vinyl chloride	N.D.	ug/l	5.	313700000S
1,1-Dichloroethene	N.D.	ug/l	5.	313800000S
1,2-Dichloroethane	N.D.	ug/l	5.	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	5.	314000000N
Carbon tetrachloride	N.D.	ug/l	5.	314100000N
Trichloroethene	350.	ug/l	5.	314200000N
p-Dichlorobenzene	N.D.	ug/l	5.	103600000N

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

38

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

See reverse side for explanation of symbols and abbreviations

2216
9 13 90

Analysis Report

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12:04:07 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868481
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1025
P.O. 1041343
Rel.

DBR-9D Grab Water Sample
Rockwell/10839-126

9D--- SDG# RAS13-06 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	5.	103700000S
Bromodichloromethane	N.D.	ug/l	5.	314600000S
Bromoform	N.D.	ug/l	5.	315200000S
Bromomethane	N.D.	ug/l	5.	314800000N
Chlorobenzene	N.D.	ug/l	5.	103800000N
Dibromochloromethane	N.D.	ug/l	5.	314700000N
Chloroethane	N.D.	ug/l	5.	103900000N
Chloroform	N.D.	ug/l	5.	314500000N
Chloromethane	N.D.	ug/l	5.	104000000N
o-Chlorotoluene	N.D.	ug/l	5.	104100000N
p-Chlorotoluene	N.D.	ug/l	5.	104200000N
Dibromomethane	N.D.	ug/l	5.	107400000N
m-Dichlorobenzene	N.D.	ug/l	5.	107500000N
o-Dichlorobenzene	N.D.	ug/l	5.	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	5.	107700000N
cis-1,2-Dichloroethylene	94.	ug/l	5.	107800000N
Dichloromethane	N.D.	ug/l	5.	107900000N
1,1-Dichloroethane	N.D.	ug/l	5.	314900000N
1,1-Dichloropropene	N.D.	ug/l	5.	108000000N
1,2-Dichloropropane	N.D.	ug/l	5.	315000000N
1,3-Dichloropropane	N.D.	ug/l	5.	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	5.	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	5.	453100000N
2,2-Dichloropropane	N.D.	ug/l	5.	108300000N
Ethylbenzene	N.D.	ug/l	5.	314400000N
Styrene	N.D.	ug/l	5.	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	5.	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	5.	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	5.	315300000N
Tetrachloroethene	N.D.	ug/l	5.	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	5.	108600000N
Toluene	N.D.	ug/l	5.	314300000N
o-Xylene	N.D.	ug/l	5.	315500000N
m-Xylene	N.D.	ug/l	5.	315600000N
p-Xylene	N.D.	ug/l	5.	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
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12:04:07 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868481
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1025
P.O. 1041343
Rel.

DBR-9D Grab Water Sample
Rockwell/10839-126

9D--- SDG# RAS13-06	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994

See back for explanation of symbols and abbreviations

22'6

Analysis Report

Lancaster Laboratories
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12:04:17 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868482
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1110
P.O. 1041343
Rel.

DBR-11S Grab Water Sample
Rockwell/10839-126

11S-- SDG# RAS13-07

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DWW on 09/24/92.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 028000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

41

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303450

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2216
9 13 90

Analysis Report

Lancaster Laboratories
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12:04:19 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868482
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1110
P.O. 1041343
Rel.

DBR-11S Grab Water Sample
Rockwell/10839-126

11S-- SDG# RAS13-07 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000S
Vinyl chloride	N.D.	ug/l	0.5	313700000S
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000S
1,2-Dichloroethane	N.D.	ug/l	0.5	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	0.5	314000000N
Carbon tetrachloride	N.D.	ug/l	0.5	314100000N
Trichloroethene	6.9	ug/l	0.5	314200000N
p-Dichlorobenzene	N.D.	ug/l	0.5	103600000N

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories Inc.
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

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*2216

Analysis Report

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12:04:22 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868482
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1110
P.O. 1041343
Rel.

DBR-11S Grab Water Sample
Rockwell/10839-126

11S-- SDG# RAS13-07 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000S
Bromodichloromethane	N.D.	ug/l	0.5	314600000S
Bromoform	N.D.	ug/l	0.5	315200000S
Bromomethane	N.D.	ug/l	0.5	314800000N
Chlorobenzene	N.D.	ug/l	0.5	103800000N
Dibromochloromethane	N.D.	ug/l	0.5	314700000N
Chloroethane	N.D.	ug/l	0.5	103900000N
Chloroform	N.D.	ug/l	0.5	314500000N
Chloromethane	N.D.	ug/l	0.5	104000000N
o-Chlorotoluene	N.D.	ug/l	0.5	104100000N
p-Chlorotoluene	N.D.	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000N
o-Dichlorobenzene	N.D.	ug/l	0.5	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	1.8	ug/l	0.5	107800000N
Dichloromethane	N.D.	ug/l	0.5	107900000N
1,1-Dichloroethane	N.D.	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	N.D.	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	N.D.	ug/l	0.5	314400000N
Styrene	N.D.	ug/l	0.5	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000N
Tetrachloroethene	N.D.	ug/l	0.5	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000N
Toluene	N.D.	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	N.D.	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

43

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303452

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Analysis Report

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12:04:22 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868482
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1110
P.O. 1041343
Rel.

DBR-11S Grab Water Sample
Rockwell/10839-126

11S-- SDG# RAS13-07	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

44

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2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303453

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Analysis Report

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12:04:27 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868483
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

DBR-10 Grab Water Sample
Rockwell/10839-126

10DBR SDG# RAS13-08 ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by KLB on 09/24/92.

Due to dilution of the sample made necessary by the high level of trichloroethene, normal quantitation limits were not attained.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

COPY TO Dames & Moore ATTN: Mr. Mike Edelman
COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 028000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

45

Lancaster Laboratories Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303454

See reverse side for explanation of symbols and abbreviations.

Analysis Report

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12:04:28 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868483
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

DBR-10 Grab Water Sample
Rockwell/10839-126

10DBR SDG# RAS13-08 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	3.	313600000S
Vinyl chloride	N.D.	ug/l	3.	313700000S
1,1-Dichloroethene	N.D.	ug/l	3.	313800000S
1,2-Dichloroethane	N.D.	ug/l	3.	313900000S
1,1,1-Trichloroethane	N.D.	ug/l	3.	314000000S
Carbon tetrachloride	N.D.	ug/l	3.	314100000S
Trichloroethene	190.	ug/l	3.	314200000S
p-Dichlorobenzene	N.D.	ug/l	3.	103600000S

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

COPY TO Dames & Moore ATTN: Mr. Mike Edelman
COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303455

See reverse side for explanation of

Analysis Report

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12:04:30 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868483
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

DBR-10 Grab Water Sample
Rockwell/10839-126

10DBR SDG# RAS13-08 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	3.	103700000S
Bromodichloromethane	N.D.	ug/l	3.	314600000S
Bromoform	N.D.	ug/l	3.	315200000S
Bromomethane	N.D.	ug/l	3.	314800000S
Chlorobenzene	N.D.	ug/l	3.	103800000S
Dibromochloromethane	N.D.	ug/l	3.	314700000S
Chloroethane	N.D.	ug/l	3.	103900000S
Chloroform	N.D.	ug/l	3.	314500000S
Chloromethane	N.D.	ug/l	3.	104000000S
o-Chlorotoluene	N.D.	ug/l	3.	104100000S
p-Chlorotoluene	N.D.	ug/l	3.	104200000S
Dibromomethane	N.D.	ug/l	3.	107400000S
m-Dichlorobenzene	N.D.	ug/l	3.	107500000S
o-Dichlorobenzene	N.D.	ug/l	3.	107600000S
trans-1,2-Dichloroethylene	N.D.	ug/l	3.	107700000S
cis-1,2-Dichloroethylene	31.	ug/l	3.	107800000S
Dichloromethane	N.D.	ug/l	3.	107900000S
1,1-Dichloroethane	N.D.	ug/l	3.	314900000S
1,1-Dichloropropene	N.D.	ug/l	3.	108000000S
1,2-Dichloropropane	N.D.	ug/l	3.	315000000S
1,3-Dichloropropane	N.D.	ug/l	3.	108100000S
cis-1,3-Dichloropropene	N.D.	ug/l	3.	108200000S
trans-1,3-Dichloropropene	N.D.	ug/l	3.	453100000S
2,2-Dichloropropane	N.D.	ug/l	3.	108300000S
Ethylbenzene	N.D.	ug/l	3.	314400000S
Styrene	N.D.	ug/l	3.	108400000S
1,1,2-Trichloroethane	N.D.	ug/l	3.	315100000S
1,1,1,2-Tetrachloroethane	N.D.	ug/l	3.	108500000S
1,1,2,2-Tetrachloroethane	N.D.	ug/l	3.	315300000S
Tetrachloroethene	N.D.	ug/l	3.	315400000S
1,2,3-Trichloropropane	N.D.	ug/l	3.	108600000S
Toluene	N.D.	ug/l	3.	314300000S
o-Xylene	N.D.	ug/l	3.	315500000S
m-Xylene	N.D.	ug/l	3.	315600000S
p-Xylene	N.D.	ug/l	3.	315700000S

Lancaster Laboratories is certified by Pennsylvania Department of

Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

47

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303456

See reverse side for explanation of symbols and abbreviations.

Analysis Report

Lancaster Laboratories
Where quality is a science.

12:04:30 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868483
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1230
P.O. 1041343
Rel.

DBR-10 Grab Water Sample
Rockwell/10839-126

10DBR SDG# RAS13-08	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
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12:04:34 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868484
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1415
P.O. 1041343
Rel.

BR-1 Grab Water Sample
Rockwell/10839-126

BR-1- SDG# RAS13-09 ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by KLB on 09/24/92.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 028000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

See reverse side for explanation of symbols and abbreviations.

* 2216
9 13 90

Analysis Report

Lancaster Laboratories
Where quality is a science.

12:04:36 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868484
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1415
P.O. 1041343
Rel.

BR-1 Grab Water Sample
Rockwell/10839-126

BR-1- SDG# RAS13-09 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000S
Vinyl chloride	N.D.	ug/l	0.5	313700000S
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000S
1,2-Dichloroethane	N.D.	ug/l	0.5	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	0.5	314000000N
Carbon tetrachloride	N.D.	ug/l	0.5	314100000N
Trichloroethene	< 0.5	ug/l	0.5	314200000N
p-Dichlorobenzene	N.D.	ug/l	0.5	103600000N

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COPY TO Dames & Moore ATTN: Mr. Mike Edelman
COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303459

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2216

Analysis Report

Lancaster Laboratories
Where quality is a science.

12:04:38 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868484
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1415
P.O. 1041343
Rel.

BR-1 Grab Water Sample
Rockwell/10839-126

BR-1- SDG# RAS13-09 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000S
Bromodichloromethane	N.D.	ug/l	0.5	314600000S
Bromoform	N.D.	ug/l	0.5	315200000S
Bromomethane	N.D.	ug/l	0.5	314800000N
Chlorobenzene	N.D.	ug/l	0.5	103800000N
Dibromochloromethane	N.D.	ug/l	0.5	314700000N
Chloroethane	N.D.	ug/l	0.5	103900000N
Chloroform	N.D.	ug/l	0.5	314500000N
Chloromethane	N.D.	ug/l	0.5	104000000N
o-Chlorotoluene	N.D.	ug/l	0.5	104100000N
p-Chlorotoluene	N.D.	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000N
-Dichlorobenzene	N.D.	ug/l	0.5	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	N.D.	ug/l	0.5	107800000N
Dichloromethane	N.D.	ug/l	0.5	107900000N
1,1-Dichloroethane	N.D.	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	N.D.	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	N.D.	ug/l	0.5	314400000N
Styrene	N.D.	ug/l	0.5	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000N
Tetrachloroethene	N.D.	ug/l	0.5	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000N
Toluene	N.D.	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	N.D.	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303460

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2216

Analysis Report

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12:04:38 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868484
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1415
P.O. 1041343
Rel.

BR-1 Grab Water Sample
Rockwell/10839-126

BR-1- SDG# RAS13-09	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

52

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303461

See reverse side for explanation of symbols and abbreviations.

*2216

Lancaster Laboratories
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12:04:44 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868485
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1535
P.O. 1041343
Rel.

BR-2 Grab Water Sample
Rockwell/10839-126

BR-2- SDG# RAS13-10 ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by KLB on 09/24/92.

Due to dilution of the sample made necessary by the high level of trichloroethene, normal quantitation limits were not attained.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

COPY TO Dames & Moore ATTN: Mr. Mike Edelman
COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 028000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

53

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303462

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
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12:04:47 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868485
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1535
P.O. 1041343
Rel.

BR-2 Grab Water Sample
Rockwell/10839-126

BR-2- SDG# RAS13-10 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	5.	313600000S
Vinyl chloride	N.D.	ug/l	5.	313700000S
1,1-Dichloroethene	N.D.	ug/l	5.	313800000S
1,2-Dichloroethane	N.D.	ug/l	5.	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	5.	314000000N
Carbon tetrachloride	N.D.	ug/l	5.	314100000N
Trichloroethene	230.	ug/l	5.	314200000N
p-Dichlorobenzene	N.D.	ug/l	5.	103600000N

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

54

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303463

See reverse side for explanation of symbols and abbreviations

Analysis Report

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12:04:50 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868485
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1535
P.O. 1041343
Rel.

BR-2 Grab Water Sample
Rockwell/10839-126

BR-2- SDG# RAS13-10 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	5.	103700000S
Bromodichloromethane	N.D.	ug/l	5.	314600000S
Bromoform	N.D.	ug/l	5.	315200000S
Bromomethane	N.D.	ug/l	5.	314800000N
Chlorobenzene	N.D.	ug/l	5.	103800000N
Dibromochloromethane	N.D.	ug/l	5.	314700000N
Chloroethane	N.D.	ug/l	5.	103900000N
Chloroform	N.D.	ug/l	5.	314500000N
Chloromethane	N.D.	ug/l	5.	104000000N
o-Chlorotoluene	N.D.	ug/l	5.	104100000N
p-Chlorotoluene	N.D.	ug/l	5.	104200000N
Dibromomethane	N.D.	ug/l	5.	107400000N
m-Dichlorobenzene	N.D.	ug/l	5.	107500000N
o-Dichlorobenzene	N.D.	ug/l	5.	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	5.	107700000N
cis-1,2-Dichloroethylene	110.	ug/l	5.	107800000N
Dichloromethane	N.D.	ug/l	5.	107900000N
1,1-Dichloroethane	N.D.	ug/l	5.	314900000N
1,1-Dichloropropene	N.D.	ug/l	5.	108000000N
1,2-Dichloropropane	N.D.	ug/l	5.	315000000N
1,3-Dichloropropane	N.D.	ug/l	5.	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	5.	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	5.	453100000N
2,2-Dichloropropane	N.D.	ug/l	5.	108300000N
Ethylbenzene	N.D.	ug/l	5.	314400000N
Styrene	N.D.	ug/l	5.	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	5.	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	5.	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	5.	315300000N
Tetrachloroethene	N.D.	ug/l	5.	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	5.	108600000N
Toluene	N.D.	ug/l	5.	314300000N
o-Xylene	N.D.	ug/l	5.	315500000N
m-Xylene	N.D.	ug/l	5.	315600000N
p-Xylene	N.D.	ug/l	5.	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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Analysis Report

Lancaster Laboratories
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12:04:50 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868485
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1535
P.O. 1041343
Rel.

BR-2 Grab Water Sample
Rockwell/10839-126

BR-2- SDG# RAS13-10	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1) Environmental Resources (#36-037) for water testing.			

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

56

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303465

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Analysis Report

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12:04:55 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868486
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1450
P.O. 1041343
Rel.

OB-2 Grab Water Sample
Rockwell/10839-126

OB-2- SDG# RAS13-11 ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by KLB on 09/24/92.

Due to dilution of the sample made necessary by the high level of trichloroethene, normal quantitation limits were not attained.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 028000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994

Analysis Report

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12:04:57 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868486
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1450
P.O. 1041343
Rel.

OB-2 Grab Water Sample
Rockwell/10839-126

OB-2- SDG# RAS13-11 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	3.	313600000S
Vinyl chloride	N.D.	ug/l	3.	313700000S
1,1-Dichloroethene	N.D.	ug/l	3.	313800000S
1,2-Dichloroethane	< 3.	ug/l	3.	313900000N
1,1,1-Trichloroethane	6.	ug/l	3.	314000000N
Carbon tetrachloride	N.D.	ug/l	3.	314100000N
Trichloroethene	110.	ug/l	3.	314200000N
p-Dichlorobenzene	N.D.	ug/l	3.	103600000N

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

58

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303467

See reverse side for explanation of symbols and abbreviations

2216

Lancaster Laboratories
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12:05:01 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868486
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1450
P.O. 1041343
Rel.

OB-2 Grab Water Sample
Rockwell/10839-126

OB-2- SDG# RAS13-11 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	3.	103700000S
Bromodichloromethane	N.D.	ug/l	3.	314600000S
Bromoform	N.D.	ug/l	3.	315200000S
Bromomethane	N.D.	ug/l	3.	314800000N
Chlorobenzene	N.D.	ug/l	3.	103800000N
Dibromochloromethane	N.D.	ug/l	3.	314700000N
Chloroethane	N.D.	ug/l	3.	103900000N
Chloroform	N.D.	ug/l	3.	314500000N
Chloromethane	N.D.	ug/l	3.	104000000N
o-Chlorotoluene	N.D.	ug/l	3.	104100000N
p-Chlorotoluene	N.D.	ug/l	3.	104200000N
Dibromomethane	N.D.	ug/l	3.	107400000N
m-Dichlorobenzene	N.D.	ug/l	3.	107500000N
o-Dichlorobenzene	N.D.	ug/l	3.	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	3.	107700000N
cis-1,2-Dichloroethylene	55.	ug/l	3.	107800000N
Dichloromethane	< 3.	ug/l	3.	107900000N
1,1-Dichloroethane	14.	ug/l	3.	314900000N
1,1-Dichloropropene	N.D.	ug/l	3.	108000000N
1,2-Dichloropropane	N.D.	ug/l	3.	315000000N
1,3-Dichloropropane	N.D.	ug/l	3.	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	3.	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	3.	453100000N
2,2-Dichloropropane	N.D.	ug/l	3.	108300000N
Ethylbenzene	N.D.	ug/l	3.	314400000N
Styrene	N.D.	ug/l	3.	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	3.	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	3.	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	3.	315300000N
Tetrachloroethene	N.D.	ug/l	3.	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	3.	108600000N
Toluene	N.D.	ug/l	3.	314300000N
o-Xylene	N.D.	ug/l	3.	315500000N
m-Xylene	N.D.	ug/l	3.	315600000N
p-Xylene	N.D.	ug/l	3.	315700000N

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Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

59

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2300

See back side for explanation of symbols and abbreviations

2216
9-13-90

Analysis Report

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12:05:01 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868486
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1450
P.O. 1041343
Rel.

OB-2 Grab Water Sample
Rockwell/10839-126

OB-2- SDG# RAS13-11	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1) Environmental Resources (#36-037) for water testing.			

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories Inc
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303469

See reverse side for explanation of symbols and abbreviations

Analysis Report

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12:05:08 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868487
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1730
P.O. 1041343
Rel.

OB-3 Grab Water Sample
Rockwell/10839-126

OB-3- SDG# RAS13-12 ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DWW on 09/24/92.

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 028000

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by: 61

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303470

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
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12:05:13 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868487
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1730
P.O. 1041343
Rel.

OB-3 Grab Water Sample
Rockwell/10839-126

OB-3- SDG# RAS13-12 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000S
Vinyl chloride	N.D.	ug/l	0.5	313700000S
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000S
1,2-Dichloroethane	N.D.	ug/l	0.5	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	0.5	314000000N
Carbon tetrachloride	N.D.	ug/l	0.5	314100000N
Trichloroethene	5.8	ug/l	0.5	314200000N
p-Dichlorobenzene	N.D.	ug/l	0.5	103600000N

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COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

62

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303471

See reverse side for explanation of symbols and abbreviations

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12:05:17 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868487
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1730
P.O. 1041343
Rel.

OB-3 Grab Water Sample
Rockwell/10839-126

OB-3- SDG# RAS13-12 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000S
Bromodichloromethane	N.D.	ug/l	0.5	314600000S
Bromoform	N.D.	ug/l	0.5	315200000S
Bromomethane	N.D.	ug/l	0.5	314800000N
Chlorobenzene	N.D.	ug/l	0.5	103800000N
Dibromochloromethane	N.D.	ug/l	0.5	314700000N
Chloroethane	N.D.	ug/l	0.5	103900000N
Chloroform	N.D.	ug/l	0.5	314500000N
Chloromethane	N.D.	ug/l	0.5	104000000N
o-Chlorotoluene	N.D.	ug/l	0.5	104100000N
p-Chlorotoluene	N.D.	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000N
[illegible]-Dichlorobenzene	N.D.	ug/l	0.5	107600000N
[illegible]ans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	1.8	ug/l	0.5	107800000N
Dichloromethane	< 0.5	ug/l	0.5	107900000N
1,1-Dichloroethane	N.D.	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	N.D.	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	N.D.	ug/l	0.5	314400000N
Styrene	N.D.	ug/l	0.5	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000N
Tetrachloroethene	N.D.	ug/l	0.5	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000N
Toluene	N.D.	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	N.D.	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
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Analysis Report

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12:05:17 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868487
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1730
P.O. 1041343
Rel.

OB-3 Grab Water Sample
Rockwell/10839-126

OB-3- SDG# RAS13-12	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1) Environmental Resources (#36-037) for water testing.			

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Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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Analysis Report

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12:05:29 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868488
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1700
P.O. 1041343
Rel.

BR-3 Grab Water Sample
Rockwell/10839-126

BR-3- SDG# RAS13-13* ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103218400S
Unregulated VOC's (List 1)	attached		103309600S

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DWW on 09/24/92.

Due to dilution of the sample made necessary by the high level of trichloroethene, normal quantitation limits were not attained.

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439 04083 0.00 028000

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Group Leader

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AR303474

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Analysis Report

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12:05:33 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868488
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1700
P.O. 1041343
Rel.

BR-3 Grab Water Sample
Rockwell/10839-126

BR-3- SDG# RAS13-13* Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	30.	313600000S
Vinyl chloride	N.D.	ug/l	30.	313700000S
1,1-Dichloroethene	N.D.	ug/l	30.	313800000S
1,2-Dichloroethane	N.D.	ug/l	30.	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	30.	314000000N
Carbon tetrachloride	N.D.	ug/l	30.	314100000N
Trichloroethene	1,400.	ug/l	30.	314200000N
p-Dichlorobenzene	N.D.	ug/l	30.	103600000N

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Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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AR303475

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*2216
9 13 90

Analysis Report

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12:05:39 352735
ASR000 D 2 15
04083 0

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LLI Sample No. PW 1868488
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1700
P.O. 1041343
Rel.

BR-3 Grab Water Sample
Rockwell/10839-126

BR-3- SDG# RAS13-13* Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	30.	103700000S
Bromodichloromethane	N.D.	ug/l	30.	314600000S
Bromoform	N.D.	ug/l	30.	315200000S
Bromomethane	N.D.	ug/l	30.	314800000N
Chlorobenzene	N.D.	ug/l	30.	103800000N
Dibromochloromethane	N.D.	ug/l	30.	314700000N
Chloroethane	N.D.	ug/l	30.	103900000N
Chloroform	N.D.	ug/l	30.	314500000N
Chloromethane	N.D.	ug/l	30.	104000000N
o-Chlorotoluene	N.D.	ug/l	30.	104100000N
p-Chlorotoluene	N.D.	ug/l	30.	104200000N
Dibromomethane	N.D.	ug/l	30.	107400000N
m-Dichlorobenzene	N.D.	ug/l	30.	107500000N
-Dichlorobenzene	N.D.	ug/l	30.	107600000N
.rans-1,2-Dichloroethylene	N.D.	ug/l	30.	107700000N
cis-1,2-Dichloroethylene	510.	ug/l	30.	107800000N
Dichloromethane	N.D.	ug/l	30.	107900000N
1,1-Dichloroethane	N.D.	ug/l	30.	314900000N
1,1-Dichloropropene	N.D.	ug/l	30.	108000000N
1,2-Dichloropropane	N.D.	ug/l	30.	315000000N
1,3-Dichloropropane	N.D.	ug/l	30.	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	30.	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	30.	453100000N
2,2-Dichloropropane	N.D.	ug/l	30.	108300000N
Ethylbenzene	N.D.	ug/l	30.	314400000N
Styrene	N.D.	ug/l	30.	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	30.	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	30.	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	30.	315300000N
Tetrachloroethene	N.D.	ug/l	30.	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	30.	108600000N
Toluene	N.D.	ug/l	30.	314300000N
o-Xylene	N.D.	ug/l	30.	315500000N
m-Xylene	N.D.	ug/l	30.	315600000N
p-Xylene	N.D.	ug/l	30.	315700000N

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Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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AR 303476

planation of symbols and abbreviations.

Analysis Report

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12:05:39 352735
ASR000 D 2 15
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868488
Date Reported 9/30/92
Date Submitted 9/15/92
Discard Date 10/ 8/92
Collected 9/10/92 by JV
Time Collected 1700
P.O. 1041343
Rel.

BR-3 Grab Water Sample
Rockwell/10839-126

BR-3- SDG# RAS13-13*	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			
Environmental Resources (#36-037) for water testing.			

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

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Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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Lancaster, PA 17601-5994
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AR303477

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2216

VOLATILES BY GC DATA

CASE NARRATIVE

AR303479

Lancaster Laboratories
Where quality is a science.

CLIENT: Dames and Moore
PROJECT: Rockwell/10839-126
SDG: RAS13

LANCASTER LABORATORIES, INC.

VOLATILES BY GC

LLI SAMPLE #	SAMPLE DESIGNATION	MATRIX SOIL	MATRIX WATER	COMMENTS
1868474	OB-5- UNSPK		X	Unspiked
1868475	OB-5- MS		X	Matrix Spike
1868476	OB-5- MSD		X	Matrix Spike Dup
1868477	BR-8-		X	DF 20
1868478	110--		X	DF 1, DF 5
1868479	FB-1R		X	
1868480	9S---		X	DF 20
1868481	9D---		X	DF 10
1868482	11S--		X	
1868483	10DBR		X	DF 5
1868484	BR-1-		X	
1868485	BR-2-		X	DF 10
1868486	OB-2-		X	DF 5
1868487	OB-3-		X	
1868488	BR-3-		X	DF 50

SAMPLE PREPARATION:

Dilutions were necessary for some samples as noted in the comments section above.

ANALYSIS:

2,2-Dichloropropane, 1,1-dichloropropene, dibromomethane, 1,3-dichloropropane and bromobenzene are not part of the routine calibration and check standard solutions.

m-Xylene and p-xylene coelute on the capillary column (60 m x 0.75 mm ID fused silica VOCOL column); only m-xylene is used for the calibration and check standard solutions.

The presence of methylene chloride in the background interferes with the first two levels of calibration. Due to this interference, the average response factor for levels 3-6 is multiplied by the height units for methylene chloride in the sample to quantitate the level present (ug/l.)

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A linear curve was attained for benzene, toluene, ethylbenzene, m-xylene, o-xylene and styrene with five levels of calibration. A sixth level of calibration was used for all other compounds to obtain linearity prior to analysis of samples.

For initial calibration 08/26/92, the %RSD for methylene chloride, trans-1,2-dichloroethene, cis-1,2-dichloroethene, carbon tetrachloride, trichloroethene, trans-1,3-dichloropropene, dibromochloromethane, chlorobenzene, bromoform, o-chlorotoluene, p-dichlorobenzene and m-dichlorobenzene is outside the QC limits as set by Lancaster Laboratories, Inc. However, method 502.2 does not specify QC limits for this parameter when a calibration curve is used.

For samples 1868474-76
Check standard 09/21/92 is outside specifications for chloromethane, bromomethane, chloroethane and benzene. However, these compounds are not detected in any of the samples referencing this standard and are detected on a quantitation limit standard (382).

For samples 1868477-78
Check standard 09/22/92 is outside specifications for chloromethane, methylene chloride and ethylbenzene. However, these compounds are not detected in any of the samples referencing this standard and are detected on a quantitation limit standard (397).

For samples 1868479-80
Check standard 09/23/92 is outside specifications for chloromethane, bromomethane, bromoform and benzene. However, these compounds are not detected in any of the samples referencing this standard and are detected on a quantitation limit standard (404).

For samples 1868481-88
Check standard 09/24/92 is outside specifications for bromomethane and benzene. However, these compounds are not detected in any of the samples referencing this standard and are detected on a quantitation limit standard (421).

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

2,2-Dichloropropane, 1,1-dichloropropene, dibromomethane, 1,3-dichloropropane and bromobenzene are not part of the routine spiking solution and no acceptance criteria have been developed.

m-Xylene and p-xylene coelute on the capillary column (60 m x 0.75 mm ID fused silica VOCOL column) only m-xylene is used for spiking.

72

AR303481

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Recovery of methylene chloride in the MS and MSD, cis-1,2-dichloroethene in the MS, vinyl chloride, 1,1-dichloroethene and bromoform in the MSD, is outside specifications. However, the corresponding check standard is acceptable and shows the system to be in calibration.

The RPD value for chloromethane, vinyl chloride, chloroethane, methylene chloride, 1,1,1-trichloroethane, bromodichloromethane, dibromochloromethane, 1,1,1,2-tetrachloroethane and bromoform is outside the QC limits as set by Lancaster Laboratories, Inc. However, method 502.2 does not specify QC limits for this parameter when a calibration curve is used. In addition, these compounds were not detected in any of the samples, so no action was taken.

DATA INTERPRETATION:

When gases (chloromethane, bromomethane, vinyl chloride and chloroethane) are outside specifications on a check standard, a detection limit standard is referenced. This standard is used as a qualitative measure to ensure that the sample peak is visible at the detection limit. If a gas peak is detected for a sample, the sample is reanalyzed for quantitation on an instrument within specifications.

INSTRUMENT IDENTIFICATION:

Instrument #	Clewmark
08	02764

Narrative reviewed and approved by:

Judy A. Colello

Judy A. Colello, Group Leader

10/1/92
Date

73

AR303482

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QC SUMMARY

AR303483

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Quality Control Summary

Surrogate Recovery
Volatiles by GC - Water

LLI Sample No.	Sample Designation	Dilution Factor	S1 (MeBrCl)	S2 (1Cl3FBn)	S3 (1Cl3FBn)	S4 (1Cl2FBn)	S5 (FlBn)	Other	TOT OUT	Comment
1868474	OB-5- UNSPK	1				96	90			
1868475	OB-5- MS	1				96	94			
1868476	OB-5- MSD	1				89	84			
1868477	BR-8-	20				92	88			
1868478	110--	1				87	87			
1868478	110--	5				95	88			
1868479	FB-1R	1				78	116			
1868480	9S---	20				87	109			
1868481	9D---	10				91	109			
1868482	11S--	1				83	117			
1868483	10DBR	5				84	125			
1868484	BR-1-	1				87	122			
1868485	BR-2-	10				86	124			
1868486	OB-2-	5				87	101			
1868487	OB-3-	1				90	106			
1868488	BR-3-	50				81	112			

	QC Limits LOW	QC Limits HIGH
S1 (MeBrCl) = Bromochloromethane (Hall Det)	75	125
S2 (1Cl3FBn) = 1-Chloro-3-fluorobenzene (Hall Det)	75	125
S3 (1Cl3FBn) = 1-Chloro-3-fluorobenzene (PID Det)	75	125
S4 (1Cl2FBn) = 1-Chloro-2-fluorobenzene (Capillary column-Hall Det)	75	125
S5 (FlBn) = Fluorobenzene (Capillary column-PID Det)	75	125

* Values outside QC limits

D Surrogates diluted out

Comments:

75

10/6/92

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***
Matrix.....: Water
Batch Number.....: 92265/A08
Injection Number.....: 378
Analysis Date.....: 09/21/92
Concentration Units.....: ug/l

Sample Information				Blank Contamination Information			
LLI Sample #	Sample Designation	Analysis Date	Analysis Time	CAS Number	Compound	Blank Result	LOQ
1868474	OB-5-UNSPK	09/21/92	20:52	74-87-3	Chloromethane	ND	0.5
1868475	OB-5-MSD	09/21/92	21:56	74-83-9	Bromomethane	ND	0.5
1868476	OB-5-MSD	09/21/92	23:35	75-00-3	Chloroethane	ND	0.5
				75-09-2	Methylene chloride	ND	0.5
				540-59-0	trans-1,2-Dichloroethene	ND	0.5
				75-35-3	1,1-Dichloroethane	ND	0.5
				594-20-7	2,2-Dichloropropane	ND	0.5
				156-59-2	cis-1,2-Dichloroethene	ND	0.5
				67-66-3	Chloroform	ND	0.5
				563-58-6	1,1-Dichloropropene	ND	0.5
				78-87-5	1,2-Dichloropropane	ND	0.5
				75-27-4	Bromodichloromethane	ND	0.5
				106-93-4	Dibromomethane	ND	0.5
				10061-01-5	cis-1,3-Dichloropropene	ND	0.5
				10061-02-6	trans-1,3-Dichloropropene	ND	0.5
				79-00-5	1,1,2-Trichloroethane	ND	0.5
				127-18-4	Tetrachloroethene	ND	0.5
				142-28-9	1,3-Dichloropropane	ND	0.5
				124-48-1	Dibromochloromethane	ND	0.5
				108-90-7	Chlorobenzene	ND	0.5
				630-02-6	1,1,1,2-Tetrachloroethane	ND	0.5
				75-25-2	Bromoform	ND	0.5
				79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
				96-18-4	1,2,3-Trichloropropane	ND	0.5
				95-49-8	o-Chlorotoluene	ND	0.5
				106-43-4	p-Chlorotoluene	ND	0.5
				541-73-1	m-Dichlorobenzene	ND	0.5
				95-50-1	o-Dichlorobenzene	ND	0.5
				108-88-3	Toluene	ND	0.5
				100-41-4	Ethylbenzene	ND	0.5
				106-42-3	p-Xylene	ND	0.5
				108-38-3	m-Xylene	ND	0.5
				95-47-6	o-Xylene	ND	0.5
				100-42-5	Styrene	ND	0.5
				108-86-1	Bromobenzene	ND	0.5

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

AR303485

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***
Matrix.....: Water
Batch Number.....: 92265/A08
Injection Number.....: 378
Analysis Date.....: 09/21/92
Concentration Units.....: ug/l

Sample Information				Blank Contamination Information			
LLI Sample #	Sample Designation	Analysis Date	Analysis Time	CAS Number	Compound	Blank Result	LOQ
1868474	OB-5-UNSPK	09/21/92	20:52	75-01-4	Vinyl chloride	ND	0.5
1868475	OB-5-MSD	09/21/92	21:56	75-35-4	1,1-Dichloroethene	ND	0.5
1868476	OB-5-MSD	09/21/92	23:35	71-55-6	1,1,1-Trichloroethene	ND	0.5
				56-23-5	Carbon tetrachloride	ND	0.5
				107-06-2	1,2-Dichloroethane	ND	0.5
				79-1-6	Trichloroethene	ND	0.5
				106-46-7	p-Dichlorobenzene	ND	0.5
				71-43-2	Benzene	ND	0.5
						ND	0.5

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

77

AR303486

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***
Matrix.....: Water
Batch Number.....: 92265/A08
Injection Number.....: 394
Analysis Date.....: 09/22/92
Concentration Units.....: ug/l

Sample Information				Blank Contamination Information			
LLI Sample #	Sample Designation	Analysis Date	Analysis Time	CAS Number	Compound	Blank Result	LOQ
1868477	BR-8-	09/22/92	09:16	74-87-3	Chloromethane	ND	0.5
1868478	110--	09/22/92	19:42	74-83-9	Bromomethane	ND	0.5
1868478	110--	09/22/92	21:51	75-00-3	Chloroethane	ND	0.5
				75-09-2	Methylene chloride	ND	0.5
				540-59-0	trans-1,2-Dichloroethene	ND	0.5
				75-35-3	1,1-Dichloroethane	ND	0.5
				594-20-7	2,2-Dichloropropane	ND	0.5
				156-59-2	cis-1,2-Dichloroethene	ND	0.5
				67-66-3	Chloroform	ND	0.5
				563-58-6	1,1-Dichloropropene	ND	0.5
				78-87-5	1,2-Dichloropropane	ND	0.5
				75-27-4	Bromodichloromethane	ND	0.5
				106-93-4	Dibromomethane	ND	0.5
				10061-01-5	cis-1,3-Dichloropropene	ND	0.5
				10061-02-6	trans-1,3-Dichloropropene	ND	0.5
				79-00-5	1,1,2-Trichloroethane	ND	0.5
				127-18-4	Tetrachloroethene	ND	0.5
				142-28-9	1,3-Dichloropropane	ND	0.5
				124-48-1	Dibromochloromethane	ND	0.5
				108-90-7	Chlorobenzene	ND	0.5
				630-02-6	1,1,1,2-Tetrachloroethane	ND	0.5
				75-25-2	Bromoform	ND	0.5
				79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
				96-18-4	1,2,3-Trichloropropane	ND	0.5
				95-49-8	o-Chlorotoluene	ND	0.5
				106-43-4	p-Chlorotoluene	ND	0.5
				541-73-1	m-Dichlorobenzene	ND	0.5
				95-50-1	o-Dichlorobenzene	ND	0.5
				108-88-3	Toluene	ND	0.5
				100-41-4	Ethylbenzene	ND	0.5
				106-42-3	p-Xylene	ND	0.5
				108-38-3	m-Xylene	ND	0.5
				95-47-6	o-Xylene	ND	0.5
				100-42-5	Styrene	ND	0.5
				108-86-1	Bromobenzene	ND	0.5

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

AR303487

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***
Matrix.....: Water
Batch Number.....: 92265/A08
Injection Number.....: 394
Analysis Date.....: 09/22/92
Concentration Units.....: ug/l

Sample Information				Blank Contamination Information			
LLI Sample #	Sample Designation	Analysis Date	Analysis Time	CAS Number	Compound	Blank Result	LOQ
1868477	BR-8-	09/22/92	09:16	75-01-4	Vinyl chloride	ND	0.5
1868478	110--	09/22/92	19:42	75-35-4	1,1-Dichloroethene	ND	0.5
1868478	110--	09/22/92	21:51	71-55-6	1,1,1-Trichloroethene	ND	0.5
				56-23-5	Carbon tetrachloride	ND	0.5
				107-06-2	1,2-Dichloroethane	ND	0.5
				79-1-6	Trichloroethene	ND	0.5
				106-46-7	p-Dichlorobenzene	ND	0.5
				71-43-2	Benzene	ND	0.5
						ND	0.5

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

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AR303488

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***
Matrix.....: Water
Batch Number.....: 92265/A08
Injection Number.....: 410
Analysis Date.....: 09/23/92
Concentration Units.....: ug/l

Sample Information				Blank Contamination Information			
LLI Sample #	Sample Designation	Analysis Date	Analysis Time	CAS Number	Compound	Blank Result	LOQ
1868479	FB-1R	09/23/92	14:41	74-87-3	Chloromethane	ND	0.5
1868480	9S---	09/23/92	21:14	74-83-9	Bromomethane	ND	0.5
				75-00-3	Chloroethane	ND	0.5
				75-09-2	Methylene chloride	ND	0.5
				540-59-0	trans-1,2-Dichloroethene	ND	0.5
				75-35-3	1,1-Dichloroethane	ND	0.5
				594-20-7	2,2-Dichloropropane	ND	0.5
				156-59-2	cis-1,2-Dichloroethene	ND	0.5
				67-66-3	Chloroform	ND	0.5
				563-58-6	1,1-Dichloropropene	ND	0.5
				78-87-5	1,2-Dichloropropane	ND	0.5
				75-27-4	Bromodichloromethane	ND	0.5
				106-93-4	Dibromomethane	ND	0.5
				10061-01-5	cis-1,3-Dichloropropene	ND	0.5
				10061-02-6	trans-1,3-Dichloropropene	ND	0.5
				79-00-5	1,1,2-Trichloroethane	ND	0.5
				127-18-4	Tetrachloroethene	ND	0.5
				142-28-9	1,3-Dichloropropane	ND	0.5
				124-48-1	Dibromochloromethane	ND	0.5
				108-90-7	Chlorobenzene	ND	0.5
				630-02-6	1,1,1,2-Tetrachloroethane	ND	0.5
				75-25-2	Bromoform	ND	0.5
				79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
				96-18-4	1,2,3-Trichloropropane	ND	0.5
				95-49-8	o-Chlorotoluene	ND	0.5
				106-43-4	p-Chlorotoluene	ND	0.5
				541-73-1	m-Dichlorobenzene	ND	0.5
				95-50-1	o-Dichlorobenzene	ND	0.5
				108-88-3	Toluene	ND	0.5
				100-41-4	Ethylbenzene	ND	0.5
				106-42-3	p-Xylene	ND	0.5
				108-38-3	m-Xylene	ND	0.5
				95-47-6	o-Xylene	ND	0.5
				100-42-5	Styrene	ND	0.5
				108-86-1	Bromobenzene	ND	0.5

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

AR303489

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***
Matrix.....: Water
Batch Number.....: 92265/A08
Injection Number.....: 410
Analysis Date.....: 09/23/92
Concentration Units.....: ug/l

Sample Information

LLI Sample #	Sample Designation	Analysis Date	Analysis Time
1868479	FB-1R	09/23/92	14:41
1868480	9S---	09/23/92	21:14

Blank Contamination Information

CAS Number	Compound	Blank Result	LOQ
75-01-4	Vinyl chloride	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
71-55-6	1,1,1-Trichloroethene	ND	0.5
56-23-5	Carbon tetrachloride	ND	0.5
107-06-2	1,2-Dichloroethane	ND	0.5
79-1-6	Trichloroethene	ND	0.5
106-46-7	p-Dichlorobenzene	ND	0.5
71-43-2	Benzene	ND	0.5
		ND	0.5

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

AR303490

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***
Matrix.....: Water
Batch Number.....: 92265/A08
Injection Number.....: 424
Analysis Date.....: 09/24/92
Concentration Units.....: ug/l

Sample Information				Blank Contamination Information			
LLI Sample #	Sample Designation	Analysis Date	Analysis Time	CAS Number	Compound	Blank Result	LOQ
1868481	9D---	09/24/92	00:20	74-87-3	Chloromethane	ND	0.5
1868482	11S--	09/24/92	17:52	74-83-9	Bromomethane	ND	0.5
1868483	10DBR	09/24/92	10:03	75-00-3	Chloroethane	ND	0.5
1868484	BR-1-	09/24/92	11:11	75-09-2	Methylene chloride	ND	0.5
1868485	BR-2-	09/24/92	13:25	540-59-0	trans-1,2-Dichloroethene	ND	0.5
1868486	08-2-	09/24/92	14:32	75-35-3	1,1-Dichloroethane	ND	0.5
1868487	08-3-	09/24/92	20:11	594-20-7	2,2-Dichloropropane	ND	0.5
1868488	BR-3-	09/24/92	16:46	156-59-2	cis-1,2-Dichloroethene	ND	0.5
				67-66-3	Chloroform	ND	0.5
				563-58-6	1,1-Dichloropropene	ND	0.5
				78-87-5	1,2-Dichloropropane	ND	0.5
				75-27-4	Bromodichloromethane	ND	0.5
				106-93-4	Dibromomethane	ND	0.5
				10061-01-5	cis-1,3-Dichloropropene	ND	0.5
				10061-02-6	trans-1,3-Dichloropropene	ND	0.5
				79-00-5	1,1,2-Trichloroethane	ND	0.5
				127-18-4	Tetrachloroethene	ND	0.5
				142-28-9	1,3-Dichloropropane	ND	0.5
				124-48-1	Dibromochloromethane	ND	0.5
				108-90-7	Chlorobenzene	ND	0.5
				630-02-6	1,1,1,2-Tetrachloroethane	ND	0.5
				75-25-2	Bromoform	ND	0.5
				79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
				96-18-4	1,2,3-Trichloropropane	ND	0.5
				95-49-8	o-Chlorotoluene	ND	0.5
				106-43-4	p-Chlorotoluene	ND	0.5
				541-73-1	m-Dichlorobenzene	ND	0.5
				95-50-1	o-Dichlorobenzene	ND	0.5
				108-88-3	Toluene	ND	0.5
				100-41-4	Ethylbenzene	ND	0.5
				106-42-3	p-Xylene	ND	0.5
				108-38-3	m-Xylene	ND	0.5
				95-47-6	o-Xylene	ND	0.5
				100-42-5	Styrene	ND	0.5
				108-86-1	Bromobenzene	ND	0.5

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***

Matrix.....: Water
Batch Number.....: 92265/A08
Injection Number.....: 424
Analysis Date.....: 09/24/92
Concentration Units.....: ug/l

Sample Information				Blank Contamination Information			
LLI Sample #	Sample Designation	Analysis Date	Analysis Time	CAS Number	Compound	Blank Result	LOQ
1868481	90---	09/24/92	00:20	75-01-4	Vinyl chloride	ND	0.5
1868482	11S--	09/24/92	17:52	75-35-4	1,1-Dichloroethene	ND	0.5
1868483	10DBR	09/24/92	10:03	71-55-6	1,1,1-Trichloroethene	ND	0.5
1868484	BR-1-	09/24/92	11:11	56-23-5	Carbon tetrachloride	ND	0.5
1868485	BR-2-	09/24/92	13:25	107-06-2	1,2-Dichloroethane	ND	0.5
1868486	OB-2-	09/24/92	14:32	79-1-6	Trichloroethene	ND	0.5
1868487	OB-3-	09/24/92	20:11	106-46-7	p-Dichlorobenzene	ND	0.5
1868488	BR-3-	09/24/92	16:46	71-43-2	Benzene	ND	0.5
						ND	0.5

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

AR303492

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Quality Control Summary

Matrix Spike/Matrix Spike Duplicate
Volatiles by GC

Unspiked Sample Number : 1868474 Inj. : 383
Spiked Sample Number : 1868475 Inj. : 384
Spiked Dup Sample Number : 1868476 Inj. : 385
Batch Number : 92265/A08 Date : 09/21/92
Matrix : Water

This MS/MSD applies to the following samples	Compound	Spike Added (ug/l)	Sample Conc (ug/l)	MS Conc (ug/l)	MSD Conc (ug/l)	MS % REC	MSD % REC	QC Limits REC	RPD	QC Limits RPD
1868474	Chloromethane	20.0	ND	25.0	13.7	125.0	68.4	65 -130	58.5 *	20
1868475	Bromomethane	20.0	ND	21.8	23.7	109.2	118.7	65 -130	8.3	20
1868476	Chloroethane	20.0	ND	15.5	21.2	77.4	106.0	65 -130	31.1 *	20
1868477	Methylene chloride	7.8	ND	10.3	5.3	131.7 *	68.2 *	75 -125	63.5 *	15
1868478	trans-1,2-Dichloroethene	7.7	ND	7.4	7.1	95.3	92.2	75 -125	3.3	15
1868479	1,1-Dichloroethane	8.3	2.2	9.4	9.2	87.1	84.2	75 -125	3.4	15
1868480	cis-1,2-Dichloroethene	8.0	16.3	26.8	25.3	132.3 *	113.3	75 -125	15.5	15
1868481	Chloroform	8.1	ND	7.2	7.6	89.7	94.3	75 -125	5.0	15
1868482	1,2-Dichloropropane	7.9	ND	8.4	8.1	106.6	103.2	75 -125	3.3	15
1868483	Bromodichloromethane	8.4	ND	8.6	7.0	101.7	82.5	75 -125	20.8 *	15
1868484	cis-1,3-Dichloropropene	9.9	ND	10.8	10.0	108.5	100.4	75 -125	7.7	15
1868485	trans-1,3-Dichloropropene	6.6	ND	6.6	6.1	98.9	91.3	75 -125	8.1	15
1868486	1,1,2-Trichloroethane	8.4	ND	7.4	7.4	88.2	88.7	75 -125	0.5	15
1868487	Tetrachloroethene	8.1	ND	7.6	7.1	94.7	88.1	75 -125	7.2	15
1868488	Dibromochloromethane	7.7	ND	8.5	5.9	110.1	75.9	75 -125	36.8 *	15
	Chlorobenzene	8.1	ND	9.3	8.4	113.6	103.2	75 -125	9.6	15
	1,1,1,2-Tetrachloroethane	8.1	ND	8.8	7.4	107.7	91.4	75 -125	16.4 *	15
	Bromoform	8.6	ND	8.0	6.2	93.2	72.3 *	75 -125	25.3 *	15
	1,1,2,2-Tetrachloroethane	8.6	ND	6.9	7.3	79.7	83.9	75 -125	5.1	15
	1,2,3-Trichloropropane	8.1	ND	6.3	6.7	78.4	82.9	75 -125	5.5	15
	o-Chlorotoluene	7.9	ND	6.2	6.2	78.7	78.2	75 -125	0.6	15
	p-Chlorotoluene	8.2	ND	7.0	6.8	85.0	82.7	75 -125	2.8	15
	m-Dichlorobenzene	8.1	ND	7.3	7.2	90.6	89.6	75 -125	1.1	15
	o-Dichlorobenzene	8.9	ND	8.1	8.8	91.0	98.4	75 -125	7.8	15
	Toluene	7.8	0.5	8.8	8.8	107.3	106.8	75 -125	0.5	15
	Ethylbenzene	8.1	ND	9.8	9.8	121.6	121.0	75 -125	0.5	15
	m-Xylene	7.8	ND	9.1	9.0	116.6	115.8	75 -125	0.7	15
	o-Xylene	8.2	ND	8.9	8.8	108.5	107.7	75 -125	0.8	15
	Styrene	8.7	ND	9.9	9.8	114.8	112.7	75 -125	1.8	15

ABBREVIATION KEY
MS = Matrix Spike
MSD = Matrix Spike Duplicate
ND = None Detected
RPD = Relative Percent Difference

COMMENTS: 2,2-Dichloropropane, 1,1-dichloropropene, dibromomethane, 1,3-dichloropropane and bromobenzene are not part of the routine spiking solution and no acceptance criteria have been developed.

m-Xylene and p-xylene coelute on the capillary column (60 m x 0.75 mm ID fused silica VOCOL column); only m-xylene is used for spiking.

Recovery of methylene chloride in the MS and MSD, cis-1,2-dichloroethene in the MS, and bromoform in the MSD is outside specifications. However, the corresponding check standard is acceptable and shows the system to be in calibration.

The RPD value for chloromethane, chloroethane, methylene chloride, bromodichloromethane, dibromochloromethane, 1,1,1,2-tetrachloroethane and bromoform is outside QC limits as set by Lancaster Laboratories, Inc. However, method 502.2 does not specify QC limits for this parameter when a calibration curve is used. In addition, these compounds were not detected in any of the samples, so no action was taken.

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METHOD HEADER

Method : /CAP/METHOD/H08_265N.MTH
eated : Mon Sep 21, 1992 10:26:19 am
dated : Mon Sep 21, 1992 10:27:39 am
nstrmnt : TRACOR540#8HALL
Integrtr : GENIE
Calc Type : ESTD
Mltlevel : YES

COMMENT & PLOT FIELDS

Comment 1 : EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
Comment 2 : 60m x 0.75mm ID fused silica VOCOL column - Hall Detector
Comment 3 : HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764
Comment 4 : 92265/A08

Start Time	: 0	Stop Time	: 48.00
Min Area	: 500	Max Area	: 3000
Enlarge	:	Rt/PkNames	: R
First/Last	: FIRST	PrinterCode	: FULLPAGE

DATA INPUT

Run Time	: 48.00	Number Of Peaks	: 50
Delay Start	: 0.00	Threshold	: 2
Minimum Area	: 100.0	Peak Width	: .10000
Shoulders	: NO	Extended Peaks	: NO
Solvent Slope	: 1.0E+07	Split Solvent	: 2.0E+04
# of Plates	: 0.00		

D ANALYSIS

Area Calc : NO

USER PROGRAMS

Post Run :
Dlg Prog :
Parm File :
Overlap : YES

PEAK IDENTIFICATION

Abs Ref Wdw	: .050	% Ref Wdw	: .500
Abs Non-Ref	: .050	% Non-Ref	: .500
Resp Factor Unkn	: 0.00000	Suppress Unknown	: NO
Minimum Id Level	: 0.0	Unknown Standard	:
Update Ret Times	: YES	% Update Times	: 100.00
Use New Times	: YES	Dead Volume Time	: 0.00

CALIBRATION FILES

	Level #	Calibration File
	1	/CAP/RESULT/H08_239_135.RES
2.	2	/CAP/RESULT/H08_239_136.RES
3.	3	/CAP/RESULT/H08_239_129.RES
4.	4	/CAP/RESULT/H08_239_130.RES
5.	5	/CAP/RESULT/H08_239_131.RES
6.	6	/CAP/RESULT/H08_239_132.RES

AR303494

CALIB TABLE (PART 1)

	Time	Amount	Peak Name	Typ	Std	Grp	Id	Wdw
1.	5.80	5.000000	DICHLORODIFLUOROMETHANE					
2.	6.41	5.000000	CHLOROMETHANE					
3.	6.69	5.000000	VINYL CHLORIDE					
4.	7.99	5.000000	BROMOMETHANE					
5.	8.51	5.000000	CHLOROETHANE					
6.	9.01	5.000000	TRICHLOROFLUOROMETHANE					
7.	11.28	.508000	1,1-DICHLOROETHENE	R				
8.	13.28	.488000	METHYLENE CHLORIDE	R				
9.	14.00	.483000	TRANS-1,2-DICHLOROETHENE	R				
10.	15.64	.518000	1,1-DICHLOROETHANE	R				
11.	17.68	.497000	CIS-1,2-DICHLOROETHENE	R				
12.	18.17	.505000	CHLOROFORM	R				
13.	18.72	.500000	BROMOCHLOROMETHANE	R				
14.	19.30	.497000	1,1,1-TRICHLOROETHANE	R				
15.	19.98	.527000	CARBON TETRACHLORIDE	R				
16.	20.90	.529000	1,2-DICHLOROETHANE	R				
17.	22.63	.498000	TRICHLOROETHENE	R				
18.	23.34	.493000	1,2-DICHLOROPROPANE	R				
19.	24.12	.527000	BROMODICHLOROMETHANE	R				
20.	25.98	.622000	CIS-1,3-DICHLOROPROPENE	R				
21.	27.70	.415000	TRANS-1,3-DICHLOROPROPENE	R				
22.	28.10	.524000	1,1,2-TRICHLOROETHANE	R				
23.	28.67	.504000	TETRACHLOROETHENE	R				
24.	29.59	.483000	DIBROMOCHLOROMETHANE	R				
25.	30.24	.484000	ETHYLENE DIBROMIDE	R				
26.	31.49	.509000	CHLOROBENZENE	R				8.E-02
27.	31.70	.507000	1,1,1,2-TETRACHLOROETHANE	R				8.E-02
28	32.29	100.000000	SURR-1CL2FBENZENE	R				
29.	34.64	.537000	BROMOFORM	R				
30.	35.42	.540000	1,1,2,2-TETRACHLOROETHANE	R				
31.	35.88	.504000	1,2,3-TRICHLOROPROPANE	R				
32.	36.44	.496000	O-CHLOROTOLUENE	R				
33.	36.63	.514000	P-CHLOROTOLUENE	R				
34.	39.08	.504000	M-DICHLOROBENZENE	R				
35.	39.50	.541000	P-DICHLOROBENZENE	R				
36.	40.72	.557000	O-DICHLOROBENZENE	R				
37.	45.58	.492000	1,2,4-TRICHLOROBENZENE					1.E-01
38.	45.96	.515000	HEXACHLOROBUTADIENE					1.E-01
39.	46.92	.521000	1,2,3-TRICHLOROBENZENE					1.E-01

CALIB TABLE (PART 2)

	Peak#	Time	Peak Name	Curve	Origin
1.	1	5.80	DICHLORODIFLUOROMETHANE	POINTTOPOINT	EXTRAP
2.	2	6.41	CHLOROMETHANE	POINTTOPOINT	EXTRAP
3.	3	6.69	VINYL CHLORIDE	POINTTOPOINT	EXTRAP
4.	4	7.99	BROMOMETHANE	POINTTOPOINT	EXTRAP
5.	5	8.51	CHLOROETHANE	POINTTOPOINT	EXTRAP
6.	6	9.01	TRICHLOROFLUOROMETHANE	POINTTOPOINT	EXTRAP
7.	7	11.28	1,1-DICHLOROETHENE	POINTTOPOINT	EXTRAP
8.	8	13.28	METHYLENE CHLORIDE	POINTTOPOINT	EXTRAP
9.	9	14.00	TRANS-1,2-DICHLOROETHENE	POINTTOPOINT	EXTRAP
10.	10	15.64	1,1-DICHLOROETHANE	POINTTOPOINT	EXTRAP
11.	11	17.68	CIS-1,2-DICHLOROETHENE	POINTTOPOINT	EXTRAP
12.	12	18.17	CHLOROFORM	POINTTOPOINT	EXTRAP
13.	13	18.72	BROMOCHLOROMETHANE	POINTTOPOINT	EXTRAP
14.	14	19.30	1,1,1-TRICHLOROETHANE	POINTTOPOINT	EXTRAP
15.	15	19.98	CARBON TETRACHLORIDE	POINTTOPOINT	EXTRAP
16.	16	20.90	1,2-DICHLOROETHANE	POINTTOPOINT	EXTRAP
17.	17	22.63	TRICHLOROETHENE	POINTTOPOINT	EXTRAP
18.	18	23.34	1,2-DICHLOROPROPANE	POINTTOPOINT	EXTRAP
19.	19	24.12	BROMODICHLOROMETHANE	POINTTOPOINT	EXTRAP
20.	20	25.98	CIS-1,3-DICHLOROPROPENE	POINTTOPOINT	EXTRAP
21.	21	27.70	TRANS-1,3-DICHLOROPROPENE	POINTTOPOINT	EXTRAP
22.	22	28.10	1,1,2-TRICHLOROETHANE	POINTTOPOINT	EXTRAP
23.	23	28.67	TETRACHLOROETHENE	POINTTOPOINT	EXTRAP
24.	24	29.59	DIBROMOCHLOROMETHANE	POINTTOPOINT	EXTRAP
25.	25	30.24	ETHYLENE DIBROMIDE	POINTTOPOINT	EXTRAP
26.	26	31.49	CHLOROBENZENE	POINTTOPOINT	EXTRAP
27.	27	31.70	1,1,1,2-TETRACHLOROETHANE	POINTTOPOINT	EXTRAP
28.	28	32.29	SURR-1CL2FBENZENE	SINGLEPOINT	EXTRAP
29.	29	34.64	BROMOFORM	POINTTOPOINT	EXTRAP
30.	30	35.42	1,1,2,2-TETRACHLOROETHANE	POINTTOPOINT	EXTRAP
31.	31	35.88	1,2,3-TRICHLOROPROPANE	POINTTOPOINT	EXTRAP
32.	32	36.44	O-CHLOROTOLUENE	POINTTOPOINT	EXTRAP
33.	33	36.63	P-CHLOROTOLUENE	POINTTOPOINT	EXTRAP
34.	34	39.08	M-DICHLOROBENZENE	POINTTOPOINT	EXTRAP
35.	35	39.50	P-DICHLOROBENZENE	POINTTOPOINT	EXTRAP
36.	36	40.72	O-DICHLOROBENZENE	POINTTOPOINT	EXTRAP
37.	37	45.58	1,2,4-TRICHLOROBENZENE	POINTTOPOINT	EXTRAP
38.	38	45.96	HEXACHLOROBUTADIENE	POINTTOPOINT	EXTRAP
39.	39	46.92	1,2,3-TRICHLOROBENZENE	POINTTOPOINT	EXTRAP

RESPONSE FACTORS

	Peak#	Peak Name	Factor
1.	1	DICHLORODIFLUOROMETHANE	8.58178E-04
2.	2	CHLOROMETHANE	1.47779E-03
3.	3	VINYL CHLORIDE	5.69555E-04
4.	4	BROMOMETHANE	1.60344E-03
5.	5	CHLOROETHANE	7.74655E-04
6.	6	TRICHLOROFLUOROMETHANE	4.83062E-04
7.	7	1,1-DICHLOROETHENE	7.29244E-04
8.	8	METHYLENE CHLORIDE	1.80534E-04
9.	9	TRANS-1,2-DICHLOROETHENE	3.73808E-04
10.	10	1,1-DICHLOROETHANE	3.59763E-04
11.	11	CIS-1,2-DICHLOROETHENE	3.36716E-04
12.	12	CHLOROFORM	1.42490E-04
13.	13	BROMOCHLOROMETHANE	4.26717E-04
14.	14	1,1,1-TRICHLOROETHANE	2.90542E-04
15.	15	CARBON TETRACHLORIDE	4.11208E-04
16.	16	1,2-DICHLOROETHANE	2.35725E-04
17.	17	TRICHLOROETHENE	3.14493E-04
18.	18	1,2-DICHLOROPROPANE	3.64509E-04
19.	19	BROMODICHLOROMETHANE	3.41299E-04
20.	20	CIS-1,3-DICHLOROPROPENE	3.43339E-04
21.	21	TRANS-1,3-DICHLOROPROPENE	4.32487E-04
22.	22	1,1,2-TRICHLOROETHANE	2.61537E-04
23.	23	TETRACHLOROETHENE	2.92780E-04
24.	24	DIBROMOCHLOROMETHANE	5.76758E-04
25.	25	ETHYLENE DIBROMIDE	3.73344E-03
26.	26	CHLOROBENZENE	7.34955E-04
27.	27	1,1,1,2-TETRACHLOROETHANE	2.08057E-04
28.	28	SURR-1CL2FBENZENE	3.57194E-03
29.	29	BROMOFORM	1.32463E-03
30.	30	1,1,2,2-TETRACHLOROETHANE	3.53294E-04
31.	31	1,2,3-TRICHLOROPROPANE	3.91318E-04
32.	32	O-CHLOROTOLUENE	9.56919E-04
33.	33	P-CHLOROTOLUENE	7.70116E-04
34.	34	M-DICHLOROBENZENE	5.56611E-04
35.	35	P-DICHLOROBENZENE	3.54506E-04
36.	36	O-DICHLOROBENZENE	4.49800E-04
37.	37	1,2,4-TRICHLOROBENZENE	3.43653E-04
38.	38	HEXACHLOROBUTADIENE	1.96853E-04
39.	39	1,2,3-TRICHLOROBENZENE	2.87092E-04

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CURVE COEFFICIENTS

	Pk#	Corr.	B0	B1	B2	B3
1.	1	1.000000	0.00000	0.00000	0.00000	0.00000
2.	2	1.000000	0.00000	0.00000	0.00000	0.00000
3.	3	1.000000	0.00000	0.00000	0.00000	0.00000
4.	4	1.000000	0.00000	0.00000	0.00000	0.00000
5.	5	1.000000	0.00000	0.00000	0.00000	0.00000
6.	6	1.000000	0.00000	0.00000	0.00000	0.00000
7.	7	1.000000	0.00000	0.00000	0.00000	0.00000
8.	8	1.000000	0.00000	0.00000	0.00000	0.00000
9.	9	1.000000	0.00000	0.00000	0.00000	0.00000
10.	10	1.000000	0.00000	0.00000	0.00000	0.00000
11.	11	1.000000	0.00000	0.00000	0.00000	0.00000
12.	12	1.000000	0.00000	0.00000	0.00000	0.00000
13.	13	1.000000	0.00000	0.00000	0.00000	0.00000
14.	14	1.000000	0.00000	0.00000	0.00000	0.00000
15.	15	1.000000	0.00000	0.00000	0.00000	0.00000
16.	16	1.000000	0.00000	0.00000	0.00000	0.00000
17.	17	1.000000	0.00000	0.00000	0.00000	0.00000
18.	18	1.000000	0.00000	0.00000	0.00000	0.00000
19.	19	1.000000	0.00000	0.00000	0.00000	0.00000
20.	20	1.000000	0.00000	0.00000	0.00000	0.00000
21.	21	1.000000	0.00000	0.00000	0.00000	0.00000
22.	22	1.000000	0.00000	0.00000	0.00000	0.00000
23.	23	1.000000	0.00000	0.00000	0.00000	0.00000
24.	24	1.000000	0.00000	0.00000	0.00000	0.00000
25.	25	1.000000	0.00000	0.00000	0.00000	0.00000
26.	26	1.000000	0.00000	0.00000	0.00000	0.00000
27.	27	1.000000	0.00000	0.00000	0.00000	0.00000
28.	28	1.000000	0.00000	279.96020	0.00000	0.00000
29.	29	1.000000	0.00000	0.00000	0.00000	0.00000
30.	30	1.000000	0.00000	0.00000	0.00000	0.00000
31.	31	1.000000	0.00000	0.00000	0.00000	0.00000
32.	32	1.000000	0.00000	0.00000	0.00000	0.00000
33.	33	1.000000	0.00000	0.00000	0.00000	0.00000
34.	34	1.000000	0.00000	0.00000	0.00000	0.00000
35.	35	1.000000	0.00000	0.00000	0.00000	0.00000
36.	36	1.000000	0.00000	0.00000	0.00000	0.00000
37.	37	1.000000	0.00000	0.00000	0.00000	0.00000
38.	38	1.000000	0.00000	0.00000	0.00000	0.00000
39.	39	1.000000	0.00000	0.00000	0.00000	0.00000

UPPER CALIB LEVELS

	Peak#	Level #	Amount	Factor
1.	1	2	7.500000	9.01454E-04
2.	1	3	10.000000	9.48926E-04
3.	1	4	20.000000	7.98869E-04
4.	1	5	40.000000	8.51196E-04
5.	1	6	60.000000	8.43487E-04
6.	2	2	7.500000	1.57500E-03
7.	2	3	10.000000	1.55212E-03
8.	2	4	20.000000	1.09891E-03
9.	2	5	40.000000	1.18292E-03
10.	2	6	60.000000	1.14583E-03
11.	3	2	7.500000	5.81442E-04
12.	3	3	10.000000	5.45792E-04
13.	3	4	20.000000	4.83516E-04
14.	3	5	40.000000	5.50481E-04
15.	3	6	60.000000	4.86443E-04
16.	4	2	7.500000	1.78124E-03
17.	4	3	10.000000	1.82905E-03
18.	4	4	20.000000	1.43846E-03
19.	4	5	40.000000	1.54518E-03
20.	4	6	60.000000	1.23715E-03
21.	5	2	7.500000	6.95573E-04
22.	5	3	10.000000	5.84610E-04
23.	5	4	20.000000	7.27427E-04
24.	5	5	40.000000	6.75730E-04
25.	5	6	60.000000	4.36914E-04
26.	6	2	7.500000	5.05048E-04
27.	6	3	10.000000	4.45879E-04
28.	6	4	20.000000	3.73141E-04
29.	6	5	40.000000	4.23594E-04
30.	6	6	60.000000	4.69846E-04
31.	7	2	.762000	6.65586E-04
32.	7	3	2.032000	5.61219E-04
33.	7	4	5.080000	5.58820E-04
34.	7	5	10.160000	4.68379E-04
35.	7	6	50.800000	4.81577E-04

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36.	8	2	.732000	2.11098E-04
37.	8	3	1.952000	2.61819E-04
38.	8	4	4.880000	3.29457E-04
39.	8	5	9.760000	3.58395E-04
40.	8	6	48.800000	3.90346E-04
41.	9	2	.724500	3.57153E-04
42.	9	3	1.932000	3.13766E-04
43.	9	4	4.830000	2.47915E-04
44.	9	5	9.660000	2.06657E-04
45.	9	6	48.300000	2.10664E-04
46.	10	2	.777000	3.43567E-04
47.	10	3	2.072000	3.22371E-04
48.	10	4	5.180000	2.56274E-04
49.	10	5	10.360000	2.26185E-04
50.	10	6	51.800000	2.60972E-04
51.	11	2	.745500	3.55068E-04
52.	11	3	1.988000	2.56930E-04
53.	11	4	4.970000	2.32187E-04
54.	11	5	9.940001	2.06072E-04
55.	11	6	49.700000	2.17217E-04
56.	12	2	.757500	1.72231E-04
57.	12	3	2.020000	2.02840E-04
58.	12	4	5.050000	1.86368E-04
59.	12	5	10.100000	1.57574E-04
60.	12	6	50.500000	1.84270E-04
61.	13	2	.750000	4.31714E-04
62.	13	3	2.000000	3.88923E-04
63.	13	4	5.000000	3.31938E-04
64.	13	5	10.000000	3.06797E-04
65.	13	6	50.000000	3.00704E-04
66.	14	2	.745500	3.02738E-04
67.	14	3	1.988000	3.34213E-04
68.	14	4	4.970000	2.65881E-04
69.	14	5	9.940001	2.60570E-04
70.	14	6	49.700000	2.71806E-04
71.	15	2	.790500	3.55783E-04
72.	15	3	2.108000	2.84318E-04
73.	15	4	5.270000	2.68170E-04
74.	15	5	10.540000	2.17863E-04
75.	15	6	52.700000	2.35050E-04
76.	16	2	.793500	3.03938E-04
77.	16	3	2.116000	2.47036E-04
78.	16	4	5.290001	2.38132E-04
79.	16	5	10.580000	1.91458E-04
80.	16	6	52.900000	2.19163E-04
81.	17	2	.747000	2.81224E-04
82.	17	3	1.992000	2.32093E-04
83.	17	4	4.980000	2.05510E-04
84.	17	5	9.960001	1.80673E-04
85.	17	6	49.800000	2.11794E-04
86.	18	2	.739500	3.63864E-04
87.	18	3	1.972000	2.94542E-04
88.	18	4	4.929999	2.76443E-04
89.	18	5	9.859999	2.82189E-04
90.	18	6	49.300000	2.31854E-04
91.	19	2	.790500	3.43844E-04
92.	19	3	2.108000	3.35446E-04
93.	19	4	5.270000	2.70843E-04
94.	19	5	10.540000	2.36146E-04
95.	19	6	52.700000	2.47978E-04
96.	20	2	.933000	4.14312E-04
97.	20	3	2.488000	3.14900E-04
98.	20	4	6.220000	3.08768E-04
99.	20	5	12.440000	2.96630E-04
100.	20	6	62.200000	2.57791E-04
101.	21	2	.622500	5.10708E-04
102.	21	3	1.660000	4.14062E-04
103.	21	4	4.150001	3.70694E-04
104.	21	5	8.300001	2.87733E-04
105.	21	6	41.500000	2.63340E-04
106.	22	2	.786000	3.10311E-04
107.	22	3	2.096000	2.54562E-04
108.	22	4	5.240001	2.34910E-04
109.	22	5	10.480000	1.96067E-04
110.	22	6	52.400000	2.04316E-04
111.	23	2	.756000	2.83359E-04
112.	23	3	2.016000	2.27123E-04
113.	23	4	5.040000	2.19003E-04
114.	23	5	10.080000	1.74428E-04
115.	23	6	50.399990	2.07511E-04
116.	24	2	.724500	6.77341E-04
117.	24	3	1.932000	5.89148E-04
118.	24	4	4.830000	4.64139E-04
119.	24	5	9.660000	3.79021E-04
120.	24	6	48.300000	3.46561E-04

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120.	[illegible]	[illegible]	[illegible]	[illegible]
121.	25	2	.726000	2.41428E-03
122.	25	3	1.936000	1.08443E-03
123.	25	4	4.840000	7.95802E-04
124.	25	5	9.680000	6.23137E-04
125.	25	6	48.400000	5.49954E-04
126.	26	2	.763500	9.63222E-04
127.	26	3	2.036000	6.90967E-04
128.	26	4	5.089999	6.76400E-04
129.	26	5	10.180000	6.02852E-04
130.	26	6	50.899990	5.40392E-04
131.	27	2	.760500	2.16574E-04
132.	27	3	2.028000	2.12779E-04
133.	27	4	5.070000	1.87105E-04
134.	27	5	10.140000	1.86921E-04
135.	27	6	50.700000	1.94550E-04
136.	28	2	100.000000	3.14143E-03
137.	28	3	100.000000	3.43810E-03
138.	28	4	100.000000	2.82428E-03
139.	28	5	100.000000	2.74273E-03
140.	28	6	100.000000	3.09606E-03
141.	29	2	.805500	1.63117E-03
142.	29	3	2.148000	1.43438E-03
143.	29	4	5.370000	8.18803E-04
144.	29	5	10.740000	6.48148E-04
145.	29	6	53.700000	5.22604E-04
146.	30	2	.810000	4.40593E-04
147.	30	3	2.160000	3.95213E-04
148.	30	4	5.400000	3.10058E-04
149.	30	5	10.800000	2.60601E-04
150.	30	6	54.000000	2.88905E-04
151.	31	2	.756000	4.77070E-04
152.	31	3	2.016000	4.54994E-04
153.	31	4	5.040000	3.90249E-04
154.	31	5	10.080000	3.11783E-04
155.	31	6	50.399990	3.14324E-04
156.	32	2	.744000	1.01000E-03
157.	32	3	1.984000	8.67892E-04
158.	32	4	4.960000	6.37896E-04
159.	32	5	9.920000	4.92753E-04
160.	32	6	49.600000	5.38917E-04
161.	33	2	.771000	8.21795E-04
162.	33	3	2.056000	6.83691E-04
163.	33	4	5.140000	5.74477E-04
164.	33	5	10.280000	5.20139E-04
165.	33	6	51.400010	5.83861E-04
166.	34	2	.756000	7.14723E-04
167.	34	3	2.016000	5.09033E-04
168.	34	4	5.040000	4.80319E-04
169.	34	5	10.080000	3.63794E-04
170.	34	6	50.399990	3.35012E-04
171.	35	2	.811500	4.86062E-04
172.	35	3	2.164000	4.42789E-04
173.	35	4	5.410000	3.92843E-04
174.	35	5	10.820000	2.63896E-04
175.	35	6	54.100000	3.01576E-04
176.	36	2	.835500	4.61338E-04
177.	36	3	2.228000	5.18026E-04
178.	36	4	5.570001	4.31512E-04
179.	36	5	11.140000	3.37153E-04
180.	36	6	55.700000	3.39239E-04
181.	37	2	.738000	3.93357E-04
182.	37	3	1.968000	4.35513E-04
183.	37	4	4.920000	3.51209E-04
184.	37	5	9.840000	2.41950E-04
185.	37	6	49.200000	2.63497E-04
186.	38	2	.772500	2.60108E-04
187.	38	3	2.060000	2.75339E-04
188.	38	4	5.150000	2.51071E-04
189.	38	5	10.300000	2.09052E-04
190.	38	6	51.500000	2.09200E-04
191.	39	2	.781500	4.13120E-04
192.	39	3	2.084000	4.40437E-04
193.	39	4	5.210000	3.68020E-04
194.	39	5	10.420000	3.10961E-04
195.	39	6	52.100010	2.86575E-04

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METHOD HEADER

Method : /CAP/METHOD/P08_265N.MTH
Created : Mon Sep 21, 1992 10:28:05 am
Updated : Mon Sep 21, 1992 10:28:37 am
Instrmnt : TRACOR540#8PID
Integrtr : GENIE
Calc Type : ISTD
Mltlevel : YES

COMMENT & PLOT FIELDS

Comment 1 : EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
Comment 2 : 60m x 0.75mm ID fused silica VOCOL column - PID Detector
Comment 3 : HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764
Comment 4 : 92265/A08 /CAP/RESULT/P08_258_361.RES

Start Time	: 0	Stop Time	: 48.00
Min Area	: 6910	Max Area	: 7310
Enlarge	: 1	Rt/PkNames	: R
First/Last	: FIRST	PrinterCode	: FULLPAGE

DATA INPUT

Run Time	: 48.00	Number Of Peaks	: 50
Delay Start	: 0.00	Threshold	: 3
Minimum Area	: 200.0	Peak Width	: .10000
Shoulders	: NO	Extended Peaks	: NO
Solvent Slope	: 1.0E+05	Split Solvent	: 2.0E+04
# of Plates	: 0.00		

DATA ANALYSIS

Area Calc : NO

USER PROGRAMS

Post Run :
Dlg Prog :
Parm File :
Overlap : YES

PEAK IDENTIFICATION

Abs Ref Wdw	: .050	% Ref Wdw	: .500
Abs Non-Ref	: .050	% Non-Ref	: .500
Resp Factor Unkn	: 0.00000	Suppress Unknown	: NO
Minimum Id Level	: 0.0	Unknown Standard	:
Update Ret Times	: YES	% Update Times	: 100.00
Use New Times	: YES	Dead Volume Time	: 0.00

TIMED EVENTS

	Time	Event	Value	S/ECM	Relay #	Update
1.	27.50	PW	0.00			NO
2.	28.50	PW	0.00			NO
3.	30.10	PW	0.00			NO

CALIBRATION FILES

	Level #	Calibration File
1.	1	/CAP/RESULT/P08_239_127.RES
2.	2	/CAP/RESULT/P08_239_129.RES
3.	3	/CAP/RESULT/P08_239_130.RES
4.	4	/CAP/RESULT/P08_239_131.RES
5.	5	/CAP/RESULT/P08_239_132.RES

CALIBRATION DATE

	Level #	Date	Count
1.	1	Wed Aug 26, 1992 5:10:59 pm	1
2.	2	Wed Aug 26, 1992 5:13:20 pm	1
3.	3	Wed Aug 26, 1992 5:15:33 pm	1
4.	4	Wed Aug 26, 1992 5:20:19 pm	1
5.	5	Wed Aug 26, 1992 5:21:41 pm	1

AR303500

CALIB TABLE (PART 1)

	Time	Amount	Peak Name	Typ	Std	Grp	Id	Wdw
1.	6.64	5.000000	VINYL CHLORIDE					
2.	11.07	.508000	1,1-DICHLOROETHENE					
3.	13.94	.483000	TRANS-1,2-DICHLOROETHENE	R				
4.	17.62	.497000	CIS-1,2-DICHLOROETHENE	R				
5.	20.64	.503000	BENZENE	R				
6.	21.43	100.000000	SURR-FBENZENE	R				
7.	22.57	.498000	TRICHLOROETHENE	R				
8.	25.92	.622000	CIS-1,3-DICHLOROPROPENE	R				
9.	26.70	.486000	TOLUENE	R				
10.	27.62	.415000	TRANS-1,3-DICHLOROPROPENE	R				
11.	28.62	.504000	TETRACHLOROETHENE	R				
12.	31.42	.509000	CHLOROBENZENE	R				
13.	31.63	.504000	ETHYLBENZENE	R				
14.	31.88	.487000	M-XYLENE	R				
15.	32.25	1.000000	ISTD-1CL2FBENZENE	B				
16.	33.29	.513000	O-XYLENE	R				1.E-01
17.	33.51	.542000	STYRENE	R				
18.	34.52	.511000	CUMENE	R				
19.	35.86	.532000	N-PROPYLBENZENE	R				
20.	36.37	.496000	O-CHLOROTOLUENE	R				
21.	36.57	.514000	P-CHLOROTOLUENE	R				
22.	37.71	.504000	1,2,4-TRIMETHYLBENZENE	R				
23.	38.31	.491000	SEC-BUTYLBENZENE	R				
24.	38.83	.514000	P-ISOPROPYLTOLUENE	R				1.E-01
25.	39.02	.504000	M-DICHLOROBENZENE	R				1.E-01
26.	39.44	.541000	P-DICHLOROBENZENE	R				1.E-01
27.	40.25	.494000	N-BUTYLBENZENE	R				1.E-01
28.	40.66	.557000	O-DICHLOROBENZENE	R				
29.	45.53	.492000	1,2,4-TRICHLOROBENZENE					1.E-01
30.	45.90	.515000	HEXACHLOROBUTADIENE					1.E-01
31.	46.20	.556000	NAPHTHALENE					1.E-01
32.	46.87	.521000	1,2,3-TRICHLOROBENZENE					1.E-01

CALIB TABLE (PART 2)

	Peak#	Time	Peak Name	Curve	Origin
1.	1	6.64	VINYL CHLORIDE	POINTTOPOINT	EXTRAP
2.	2	11.07	1,1-DICHLOROETHENE	POINTTOPOINT	EXTRAP
3.	3	13.94	TRANS-1,2-DICHLOROETHENE	POINTTOPOINT	EXTRAP
4.	4	17.62	CIS-1,2-DICHLOROETHENE	POINTTOPOINT	EXTRAP
5.	5	20.64	BENZENE	POINTTOPOINT	EXTRAP
6.	6	21.43	SURR-FBENZENE	SINGLEPOINT	EXTRAP
7.	7	22.57	TRICHLOROETHENE	POINTTOPOINT	EXTRAP
8.	8	25.92	CIS-1,3-DICHLOROPROPENE	POINTTOPOINT	EXTRAP
9.	9	26.70	TOLUENE	POINTTOPOINT	EXTRAP
10.	10	27.62	TRANS-1,3-DICHLOROPROPENE	POINTTOPOINT	EXTRAP
11.	11	28.62	TETRACHLOROETHENE	POINTTOPOINT	EXTRAP
12.	12	31.42	CHLOROBENZENE	POINTTOPOINT	EXTRAP
13.	13	31.63	ETHYLBENZENE	POINTTOPOINT	EXTRAP
14.	14	31.88	M-XYLENE	POINTTOPOINT	EXTRAP
15.	15	32.25	ISTD-1CL2FBENZENE	SINGLEPOINT	EXTRAP
16.	16	33.29	O-XYLENE	POINTTOPOINT	EXTRAP
17.	17	33.51	STYRENE	POINTTOPOINT	EXTRAP
18.	18	34.52	CUMENE	POINTTOPOINT	EXTRAP
19.	19	35.86	N-PROPYLBENZENE	POINTTOPOINT	EXTRAP
20.	20	36.37	O-CHLOROTOLUENE	POINTTOPOINT	EXTRAP
21.	21	36.57	P-CHLOROTOLUENE	POINTTOPOINT	EXTRAP
22.	22	37.71	1,2,4-TRIMETHYLBENZENE	POINTTOPOINT	EXTRAP
23.	23	38.31	SEC-BUTYLBENZENE	POINTTOPOINT	EXTRAP
24.	24	38.83	P-ISOPROPYLTOLUENE	POINTTOPOINT	EXTRAP
25.	25	39.02	M-DICHLOROBENZENE	POINTTOPOINT	EXTRAP
26.	26	39.44	P-DICHLOROBENZENE	POINTTOPOINT	EXTRAP
27.	27	40.25	N-BUTYLBENZENE	POINTTOPOINT	EXTRAP
28.	28	40.66	O-DICHLOROBENZENE	POINTTOPOINT	EXTRAP
29.	29	45.53	1,2,4-TRICHLOROBENZENE	POINTTOPOINT	EXTRAP
30.	30	45.90	HEXACHLOROBUTADIENE	POINTTOPOINT	EXTRAP
31.	31	46.20	NAPHTHALENE	POINTTOPOINT	EXTRAP

RESPONSE FACTORS

	Peak#	Peak Name	Factor
1.	1	VINYL CHLORIDE	5.36087E-03
2.	2	1,1-DICHLOROETHENE	2.44328E-03
3.	3	TRANS-1,2-DICHLOROETHENE	5.47434E-04
4.	4	CIS-1,2-DICHLOROETHENE	1.04521E-03
5.	5	BENZENE	5.42885E-04
6.	6	SURR-FBENZENE	4.92299E-03
7.	7	TRICHLOROETHENE	7.34276E-04
8.	8	CIS-1,3-DICHLOROPROPENE	1.76281E-03
9.	9	TOLUENE	3.68639E-04
10.	10	TRANS-1,3-DICHLOROPROPENE	1.39164E-03
11.	11	TETRACHLOROETHENE	8.20142E-04
12.	12	CHLOROBENZENE	3.60095E-04
13.	13	ETHYLBENZENE	4.04386E-04
14.	14	M-XYLENE	3.61294E-04
15.	15	ISTD-1CL2FBENZENE	2.25167E-05
16.	16	O-XYLENE	4.38709E-04
17.	17	STYRENE	3.43959E-04
18.	18	CUMENE	5.30703E-04
19.	19	N-PROPYLBENZENE	4.12594E-04
20.	20	O-CHLOROTOLUENE	4.13610E-04
21.	21	P-CHLOROTOLUENE	3.84733E-04
22.	22	1,2,4-TRIMETHYLBENZENE	4.30661E-04
23.	23	SEC-BUTYLBENZENE	5.68626E-04
24.	24	P-ISOPROPYLTOLUENE	5.38166E-04
25.	25	M-DICHLOROBENZENE	4.47761E-04
26.	26	P-DICHLOROBENZENE	4.29813E-04
27.	27	N-BUTYLBENZENE	5.25370E-04
28.	28	O-DICHLOROBENZENE	4.81861E-04
29.	29	1,2,4-TRICHLOROBENZENE	5.05659E-04
30.	30	HEXACHLOROBUTADIENE	6.22177E-04
31.	31	NAPHTHALENE	4.30548E-04
32.	32	1,2,3-TRICHLOROBENZENE	5.19571E-04

CURVE COEFFICIENTS

	Pk#	Corr.	B0	B1	B2	B3
1.	1	1.000000	0.00000	0.00000	0.00000	0.00000
2.	2	1.000000	0.00000	0.00000	0.00000	0.00000
3.	3	1.000000	0.00000	0.00000	0.00000	0.00000
4.	4	1.000000	0.00000	0.00000	0.00000	0.00000
5.	5	1.000000	0.00000	0.00000	0.00000	0.00000
6.	6	1.000000	0.00000	351.17420	0.00000	0.00000
7.	7	1.000000	0.00000	0.00000	0.00000	0.00000
8.	8	1.000000	0.00000	0.00000	0.00000	0.00000
9.	9	1.000000	0.00000	0.00000	0.00000	0.00000
10.	10	1.000000	0.00000	0.00000	0.00000	0.00000
11.	11	1.000000	0.00000	0.00000	0.00000	0.00000
12.	12	1.000000	0.00000	0.00000	0.00000	0.00000
13.	13	1.000000	0.00000	0.00000	0.00000	0.00000
14.	14	1.000000	0.00000	0.00000	0.00000	0.00000
15.	15	1.000000	0.00000	4.4411410E+04	0.00000	0.00000
16.	16	1.000000	0.00000	0.00000	0.00000	0.00000
17.	17	1.000000	0.00000	0.00000	0.00000	0.00000
18.	18	1.000000	0.00000	0.00000	0.00000	0.00000
19.	19	1.000000	0.00000	0.00000	0.00000	0.00000
20.	20	1.000000	0.00000	0.00000	0.00000	0.00000
21.	21	1.000000	0.00000	0.00000	0.00000	0.00000
22.	22	1.000000	0.00000	0.00000	0.00000	0.00000
23.	23	1.000000	0.00000	0.00000	0.00000	0.00000
24.	24	1.000000	0.00000	0.00000	0.00000	0.00000
25.	25	1.000000	0.00000	0.00000	0.00000	0.00000
26.	26	1.000000	0.00000	0.00000	0.00000	0.00000
27.	27	1.000000	0.00000	0.00000	0.00000	0.00000
28.	28	1.000000	0.00000	0.00000	0.00000	0.00000
29.	29	1.000000	0.00000	0.00000	0.00000	0.00000
30.	30	1.000000	0.00000	0.00000	0.00000	0.00000
31.	31	1.000000	0.00000	0.00000	0.00000	0.00000
32.	32	1.000000	0.00000	0.00000	0.00000	0.00000

AR300502

UPPER CALIB LEVELS

	Peak#	Level #	Amount	Factor
1.	1	2	10.000000	5.47316E-03
2.	1	3	20.000000	4.99701E-03
3.	1	4	40.000000	5.15399E-03
4.	1	5	60.000000	4.51546E-03
5.	2	2	2.032000	2.78863E-03
6.	2	3	5.080000	3.20327E-03
7.	2	4	10.160000	2.98075E-03
8.	2	5	50.800000	2.78698E-03
9.	3	2	1.932000	5.08014E-04
10.	3	3	4.830000	4.52565E-04
11.	3	4	9.660000	4.32459E-04
12.	3	5	48.300000	3.98355E-04
13.	4	2	1.988000	1.07330E-03
14.	4	3	4.970000	9.82516E-04
15.	4	4	9.940001	9.53426E-04
16.	4	5	49.700000	8.98556E-04
17.	5	2	2.012000	6.15236E-04
18.	5	3	5.030001	5.08008E-04
19.	5	4	10.060000	5.61499E-04
20.	5	5	50.300000	5.65961E-04
21.	6	2	100.000000	3.10842E-03
22.	6	3	100.000000	3.04096E-03
23.	6	4	100.000000	3.26183E-03
24.	6	5	100.000000	3.42184E-03
25.	7	2	1.992000	6.98255E-04
26.	7	3	4.980000	6.46411E-04
27.	7	4	9.960001	6.48853E-04
28.	7	5	49.800000	7.36231E-04
29.	8	2	2.488000	1.65591E-03
30.	8	3	6.220000	1.43566E-03
31.	8	4	12.440000	1.39870E-03
32.	8	5	62.200000	1.32017E-03
33.	9	2	1.944000	3.35619E-04
34.	9	3	4.860000	3.24878E-04
35.	9	4	9.719999	3.20555E-04
36.	9	5	48.600000	3.04983E-04
37.	10	2	1.660000	1.12687E-03
38.	10	3	4.150001	9.84417E-04
39.	10	4	8.300001	.01160
40.	10	5	41.500000	7.15870E-04
41.	11	2	2.016000	7.76826E-04
42.	11	3	5.040000	7.22411E-04
43.	11	4	10.080000	6.76606E-04
44.	11	5	50.399990	7.23645E-04
45.	12	2	2.036000	3.13053E-04
46.	12	3	5.089999	2.78814E-04
47.	12	4	10.180000	2.72662E-04
48.	12	5	50.899990	2.57424E-04
49.	13	2	2.016000	3.60693E-04
50.	13	3	5.040000	3.36719E-04
51.	13	4	10.080000	3.35081E-04
52.	13	5	50.399990	3.87768E-04
53.	14	2	1.948000	3.22746E-04
54.	14	3	4.870000	2.92249E-04
55.	14	4	9.740000	2.87529E-04
56.	14	5	48.700000	2.76876E-04
57.	15	2	1.000000	2.25167E-05
58.	15	3	1.000000	2.25167E-05
59.	15	4	1.000000	2.25167E-05
60.	15	5	1.000000	2.25167E-05
61.	16	2	2.052000	3.90192E-04
62.	16	3	5.130000	3.46918E-04
63.	16	4	10.260000	3.40202E-04
64.	16	5	51.300000	3.20555E-04
65.	17	2	2.168000	2.81350E-04
66.	17	3	5.420001	2.49357E-04
67.	17	4	10.840000	2.45342E-04
68.	17	5	54.200000	2.29313E-04
69.	18	2	2.044000	4.86122E-04
70.	18	3	5.110001	4.41198E-04
71.	18	4	10.220000	4.26265E-04
72.	18	5	51.100010	4.75368E-04

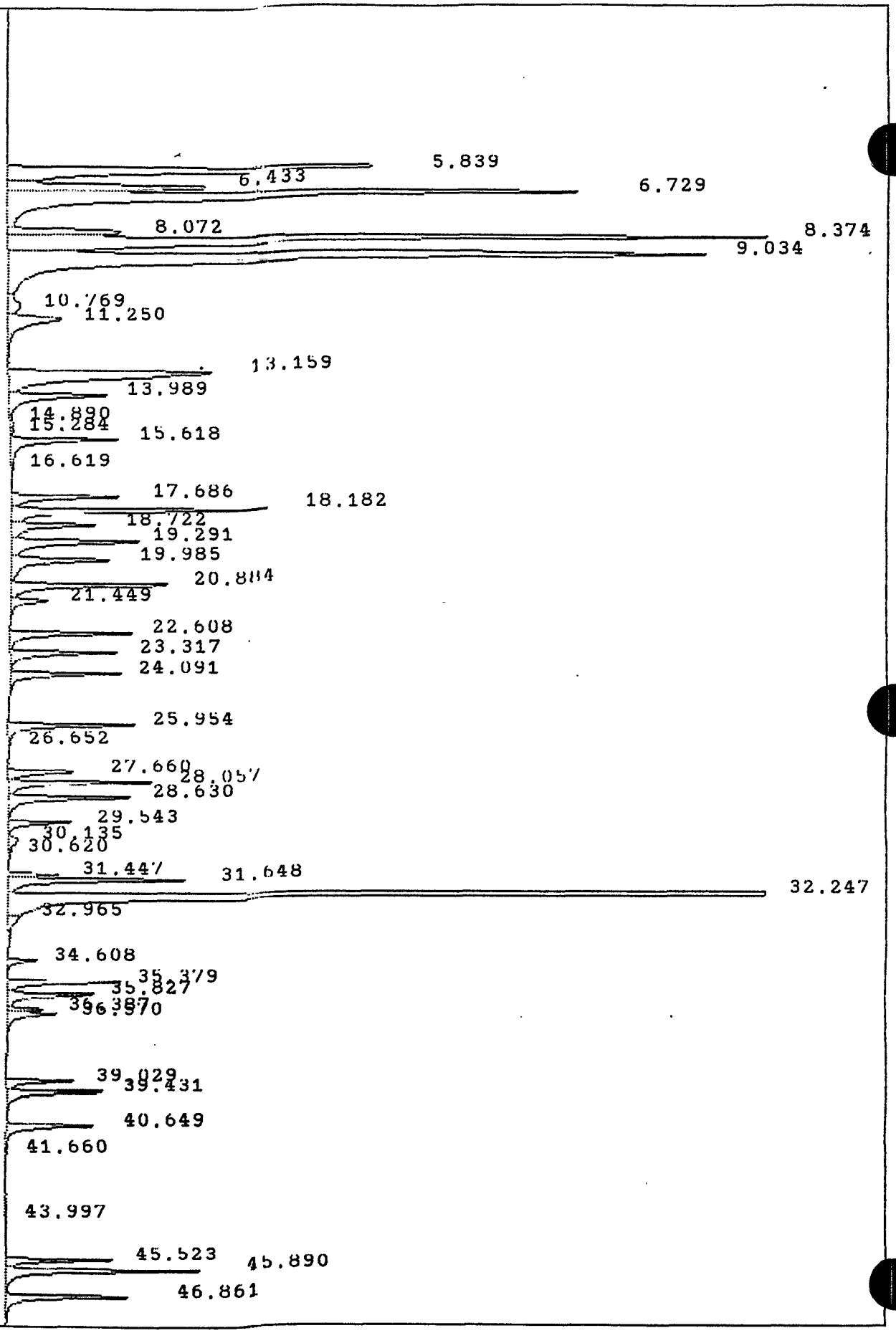
73.	19	2	2.128000	3.69461E-04
74.	19	3	5.320000	3.31243E-04
75.	19	4	10.640000	3.16339E-04
76.	19	5	53.200000	2.64662E-04
77.	20	2	1.984000	3.66818E-04
78.	20	3	4.960000	3.21677E-04
79.	20	4	9.920000	3.13386E-04
80.	20	5	49.600000	2.94298E-04
81.	21	2	2.056000	3.25052E-04
82.	21	3	5.140000	2.88355E-04
83.	21	4	10.280000	2.79371E-04
84.	21	5	51.400010	2.61053E-04
85.	22	2	2.016000	3.82563E-04
86.	22	3	5.040000	3.35436E-04
87.	22	4	10.080000	3.28306E-04
88.	22	5	50.399990	3.21526E-04
89.	23	2	1.964000	5.38991E-04
90.	23	3	4.910000	4.69303E-04
91.	23	4	9.820000	4.35894E-04
92.	23	5	49.100000	4.18450E-04
93.	24	2	2.056000	5.03034E-04
94.	24	3	5.140000	4.37759E-04
95.	24	4	10.280000	4.06884E-04
96.	24	5	51.400010	3.88080E-04
97.	25	2	2.016000	3.79974E-04
98.	25	3	5.040000	3.31810E-04
99.	25	4	10.080000	3.24545E-04
100.	25	5	50.399990	3.21836E-04
101.	26	2	2.164000	3.63313E-04
102.	26	3	5.410000	3.14177E-04
103.	26	4	10.820000	3.07118E-04
104.	26	5	54.100000	2.94728E-04
105.	27	2	1.976000	4.87581E-04
106.	27	3	4.940001	4.18897E-04
107.	27	4	9.880001	3.84447E-04
108.	27	5	49.400000	3.67049E-04
109.	28	2	2.228000	4.40057E-04
110.	28	3	5.570001	3.81880E-04
111.	28	4	11.140000	3.82983E-04
112.	28	5	55.700000	3.76272E-04
113.	29	2	1.968000	4.61108E-04
114.	29	3	4.920000	3.91142E-04
115.	29	4	9.840000	3.79095E-04
116.	29	5	49.200000	3.91072E-04
117.	30	2	2.060000	6.56093E-04
118.	30	3	5.150000	5.86736E-04
119.	30	4	10.300000	5.56273E-04
120.	30	5	51.500000	5.87375E-04
121.	31	2	2.224000	3.37602E-04
122.	31	3	5.560000	3.01779E-04
123.	31	4	11.120000	2.77467E-04
124.	31	5	55.600000	2.62984E-04
125.	32	2	2.084000	4.62565E-04
126.	32	3	5.210000	4.04788E-04
127.	32	4	10.420000	3.93368E-04
128.	32	5	52.100010	4.13482E-04

REPORT SPECIFICATION

Rpt Job : /DATA/JOB/PLOT25.JOB
Fmt File : /DATA/FORMAT/CAPPID.FMT
Rpt Units : ug/L

REPORT DEVICES

	Report Device	Number Copies
1	L4	1



SAMPLE NAME: CALS1D1 2.5/500+12.5
Resultfile: /CAP/RESULT/H08_239_135.RES
Plot Fields: 225 - 3250 Instrument - TRACOR540#8HALL

AR303505

Sample Name: CALSTD1 2.5/500+12.5
Batch # 92239/A08 Injected on Wed Aug 26, 1992 7:51:29 pm

Instrument: TRACOR540#8HALL Employee #634
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_239_135.RES
Methodfile: /CAP/METHOD/H08_239.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.84	5.84	4853	66864	BV	4.16	DICHLORODIFLUOROMETHANE
2	6.43	6.45	2679	31503	VV	3.96	CHLOROMETHANE
3	6.73	6.75	7808	118414	VV	4.45	VINYL CHLORIDE
4	8.07	8.07	1511	19888	VV	2.42	BROMOMETHANE
5	8.37	8.33	10069	147310	VV	7.09	CHLOROETHANE
6	9.03	9.08	9039	176932	VV	4.37	TRICHLOROFLUOROMETHANE
8	11.25	#11.25	697	16593	VV	.49	1,1-DICHLOROETHENE
9	13.16	#13.16	2703	52766	PV	.43	METHYLENE CHLORIDE
10	13.99	#13.99	1292	17289	VV	.46	TRANS-1,2-DICHLOROETHENE
13	15.62	#15.62	1440	17111	VV	.59	1,1-DICHLOROETHANE
15	17.69	#17.69	1476	13838	PV	.55	CIS-1,2-DICHLOROETHENE
16	18.18	#18.18	3544	33264	VV	.67	CHLOROFORM
17	18.72	#18.72	1172	11979	VV	.60	BROMOCHLOROMETHANE
18	19.29	#19.29	1711	20794	VV	.61	1,1,1-TRICHLOROETHANE
[illegible]	19.99	#19.99	1282	17307	VV	.41	CARBON TETRACHLORIDE
[illegible]	20.88	#20.88	2244	20906	VV	.70	1,2-DICHLOROETHANE
22	22.61	#22.61	1584	14976	BV	.48	TRICHLOROETHENE
23	23.32	#23.32	1363	13645	VV	.58	1,2-DICHLOROPROPANE
24	24.09	#24.09	1544	13541	VV	.62	BROMODICHLOROMETHANE
25	25.95	#25.95	1812	15640	BV	.87	CIS-1,3-DICHLOROPROPENE
27	27.66	#27.66	960	8657	PV	.56	TRANS-1,3-DICHLOROPROPENE
28	28.06	#28.06	2004	17772	VV	.66	1,1,2-TRICHLOROETHANE
29	28.63	#28.63	1721	17426	VV	.42	TETRACHLOROETHENE
30	29.54	#29.54	837	7034	VV	.58	DIBROMOCHLOROMETHANE
31	30.13	#30.13	130	2397	VV	.50	ETHYLENE DIBROMIDE
33	31.45	#31.45	693	4389	BV	.73	CHLOROBENZENE
34	31.65	#31.65	2437	22809	VV	.68	1,1,1,2-TETRACHLOROETHANE
35	32.25	#32.25	27996	216793	VV	110.73	SURR-1CL2FBENZENE
37	34.61	#34.61	405	3464	VV	.75	BROMOFORM
38	35.38	#35.38	1528	13385	VV	.72	1,1,2,2-TETRACHLOROETHANE
39	35.83	#35.83	1288	12376	VV	.74	1,2,3-TRICHLOROPROPANE
40	36.39	#36.39	518	3835	VV	.57	O-CHLOROTOLUENE
41	36.57	#36.57	667	7663	VV	.59	P-CHLOROTOLUENE
42	39.03	#39.03	905	7729	PV	.64	M-DICHLOROBENZENE
43	39.43	#39.43	1526	12974	VV	.77	P-DICHLOROBENZENE
44	40.65	#40.65	1238	11271	BV	.75	O-DICHLOROBENZENE
47	45.52	45.55	1432	10941	PV	.77	1,2,4-TRICHLOROBENZENE
48	45.89	45.92	2616	22739	VV	.83	HEXACHLOROBUTADIENE
49	46.86	46.89	1815	15401	VV	.87	1,2,3-TRICHLOROBENZENE

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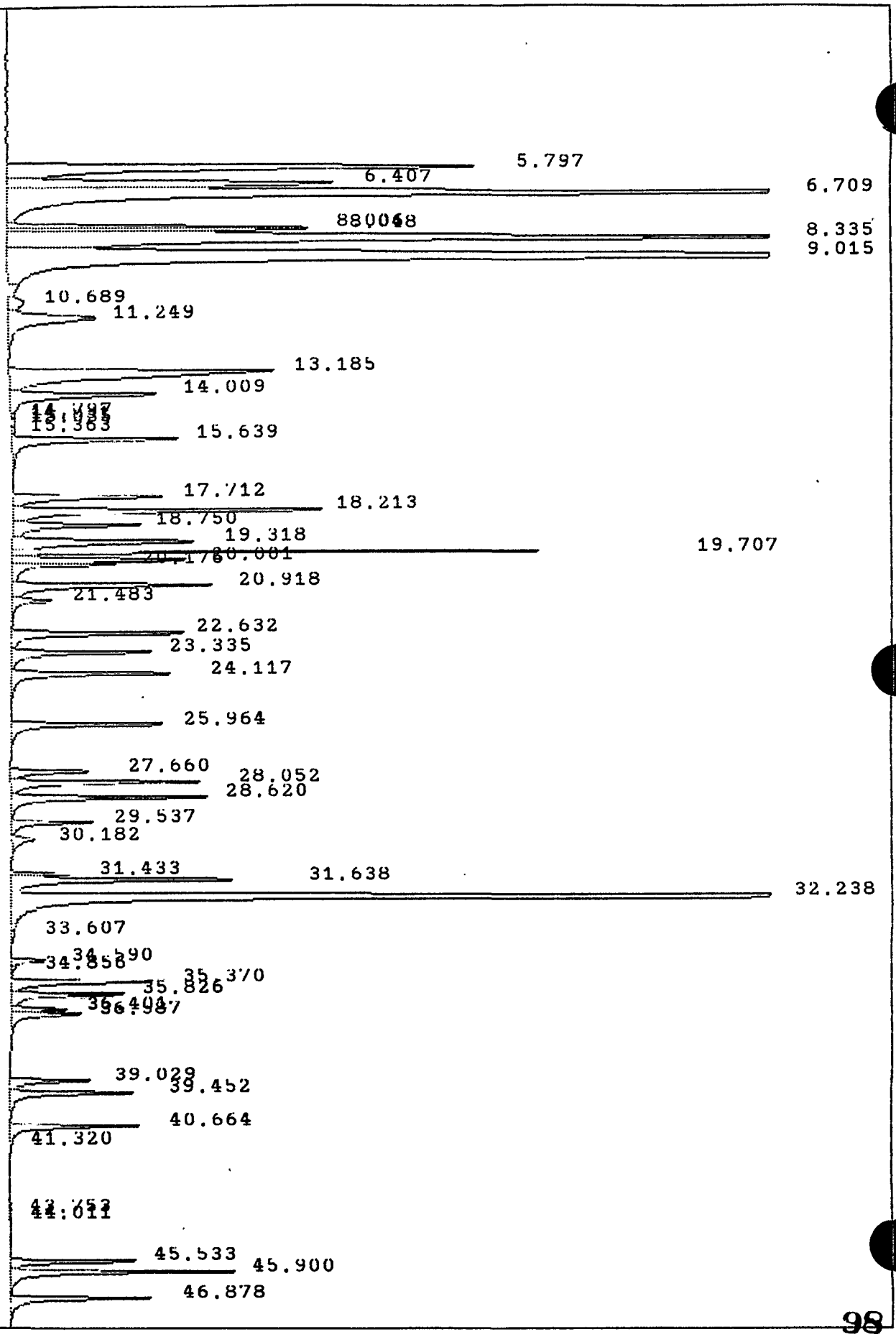

98

SAMPLE NAME: CALSID2 1.5/200+7.5
Resultfile: /CAP/RESULT/H08_239_136.RES
Plot Fields: 225 - 3250 Instrument - TRACOR540#8HALL

AR303507

Dem. to Cal. 6-26-92 HBH

Sample Name: CALSID2 1.5/200+7.5
Batch # 92239/A08 Injected on Wed Aug 26, 1992 9:00:02 pm

Instrument: TRACOR540#8HALL Employee #634
Calibration: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_239_136.RES
Methodfile: /CAP/METHOD/H08_239A.MIH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.80	5.84	6049	84432	PV	7.50	DICHLORODIFLUOROMETHANE
2	6.41	6.45	4300	49356	VV	7.50	CHLOROMETHANE
3	6.71	6.75	10592	168694	VV	7.50	VINYL CHLORIDE
5	8.05	8.06	3869	26116	VV	7.50	BROMOMETHANE
6	8.34	8.33	10874	177185	VV	7.50	CHLOROETHANE
7	9.01	9.08	11827	239280	VV	7.50	TRICHLOROFLUOROMETHANE
9	11.25	#11.25	1145	25614	VV	.76	1,1-DICHLOROETHENE
10	13.19	#13.19	3468	62951	PV	.73	METHYLENE CHLORIDE
11	14.01	#14.01	2029	24068	VV	.72	TRANS-1,2-DICHLOROETHENE
16	15.64	#15.64	2262	24406	VV	.78	1,1-DICHLOROETHANE
17	17.71	#17.71	2100	19887	VV	.75	CIS-1,2-DICHLOROETHENE
18	18.21	#18.21	4398	41859	VV	.76	CHLOROFORM
19	18.75	#18.75	1737	16876	VV	.75	BROMOCHLOROMETHANE
20	19.32	#19.32	2463	29875	VV	.75	1,1,1-TRICHLOROETHANE
[illegible]	[illegible].00	#20.00	2222	22548	VV	.79	CARBON TETRACHLORIDE
[illegible]	20.92	#20.92	2611	25946	VV	.79	1,2-DICHLOROETHANE
26	22.63	#22.63	2656	22937	VV	.75	TRICHLOROETHENE
27	23.34	#23.34	2032	18699	VV	.74	1,2-DICHLOROPROPANE
28	24.12	#24.12	2299	21843	VV	.79	BROMODICHLOROMETHANE
29	25.96	#25.96	2252	20260	PV	.93	CIS-1,3-DICHLOROPROPENE
30	27.66	#27.66	1219	10232	PV	.62	TRANS-1,3-DICHLOROPROPENE
31	28.05	#28.05	2533	23540	VV	.79	1,1,2-TRICHLOROETHANE
32	28.62	#28.62	2668	25304	VV	.76	TETRACHLOROETHENE
33	29.54	#29.54	1070	9623	VV	.72	DIBROMOCHLOROMETHANE
34	30.18	#30.18	301	4523	VV	.73	ETHYLENE DIBROMIDE
35	31.43	#31.43	793	5548	BV	.76	CHLOROBENZENE
36	31.64	#31.64	3511	29397	VV	.76	1,1,1,2-TETRACHLOROETHANE
37	32.24	#32.24	31833	240746	VV	113.70	SURR-1CL2FBENZENE
39	34.59	#34.59	494	3843	PV	.81	BROMOFORM
41	35.37	#35.37	1838	17649	VV	.81	1,1,2,2-TETRACHLOROETHANE
42	35.83	#35.83	1585	15649	VV	.76	1,2,3-TRICHLOROPROPANE
43	36.40	#36.40	737	5610	VV	.74	O-CHLOROTOLUENE
44	36.59	#36.59	938	9765	VV	.77	P-CHLOROTOLUENE
45	39.03	#39.03	1058	9028	BV	.76	M-DICHLOROBENZENE
46	39.45	#39.45	1670	16012	VV	.81	P-DICHLOROBENZENE
47	40.66	#40.66	1811	15174	VV	.84	O-DICHLOROBENZENE
51	45.53	45.55	1876	13176	BV	.74	1,2,4-TRICHLOROBENZENE
52	45.90	45.92	2970	23741	VV	.77	HEXACHLOROBUTADIENE
53	46.88	46.89	1892	16497	VV	.78	1,2,3-TRICHLOROBENZENE

Reviewed on Wed Aug 26, 1992 11:36:06 pm
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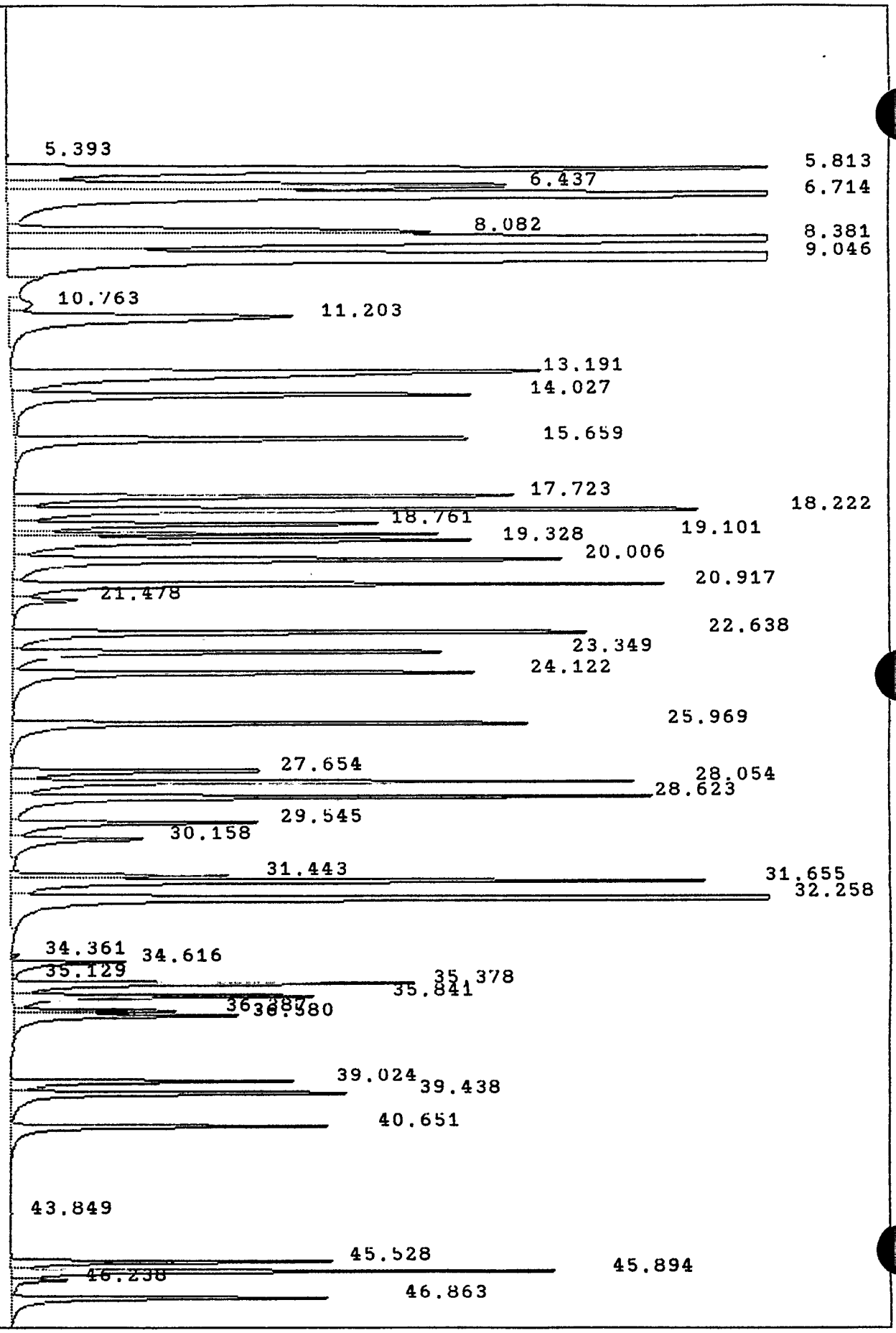

SAMPLE NAME: CALSTD3 4/200+10
Resultfile: /CAP/RESULT/H08_239_129.RES
Plot Fields: 225 - 3250 Instrument - TRACOR540#8HALL

AR303509 100

Sample Name: CALSTD5 4/200+10
Batch # 92239/A08 Injected on Wed Aug 26, 1992 12:14:11 pm

Instrument: TRACOR540#8HALL Employee #702
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_239_129.RES
Met 1file: /CAP/METHOD/H08_239.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	5.81	5.81	10538	146799	PV	9.36	DICHLORODIFLUOROMETHANE
3	6.44	6.42	6443	77410	VV	9.30	CHLOROMETHANE
4	6.71	6.72	18322	268079	VV	12.36	VINYL CHLORIDE
5	8.08	8.03	5467	64984	VV	8.13	BROMOMETHANE
6	8.38	8.39	17105	302853	VV	11.00	CHLOROETHANE
7	9.05	9.04	22428	394792	VV	10.95	TRICHLOROFLUOROMETHANE
9	11.20	#11.20	3621	73696	VV	2.29	1,1-DICHLOROETHENE
10	13.19	#13.19	7456	119852	PV	2.44	METHYLENE CHLORIDE
11	14.03	#14.03	6157	70387	VV	2.08	TRANS-1,2-DICHLOROETHENE
12	15.66	#15.66	6427	66684	VV	2.09	1,1-DICHLOROETHANE
13	17.72	#17.72	7738	62794	PV	2.32	CIS-1,2-DICHLOROETHENE
14	18.22	#18.22	9959	91310	VV	2.39	CHLOROFORM
15	18.76	#18.76	5142	45324	VV	2.24	BROMOCHLOROMETHANE
17	19.33	#19.33	5948	72042	VV	1.96	1,1,1-TRICHLOROETHANE
18	20.01	#20.01	7414	85602	VV	2.40	CARBON TETRACHLORIDE
19	20.92	#20.92	8566	72711	VV	2.70	1,2-DICHLOROETHANE
[illegible]	2.64	#22.64	8583	72863	VV	2.07	TRICHLOROETHENE
[illegible]	23.35	#23.35	6695	58050	VV	2.45	1,2-DICHLOROPROPANE
23	24.12	#24.12	6284	63024	VV	2.69	BROMODICHLOROMETHANE
24	25.97	#25.97	7901	66580	VV	3.12	CIS-1,3-DICHLOROPROPENE
25	27.65	#27.65	4009	31515	PV	1.97	TRANS-1,3-DICHLOROPROPENE
26	28.05	#28.05	8234	72876	VV	2.59	1,1,2-TRICHLOROETHANE
27	28.62	#28.62	8876	78315	VV	2.30	TETRACHLOROETHENE
28	29.55	#29.55	3279	31847	VV	2.20	DIBROMOCHLOROMETHANE
29	30.16	#30.16	1785	23318	VV	2.18	ETHYLENE DIBROMIDE
30	31.44	#31.44	2947	20221	VV	2.45	CHLOROBENZENE
31	31.66	#31.66	9531	83961	VV	2.36	1,1,1,2-TETRACHLOROETHANE
32	32.26	#32.26	29086	231773	VV	114.69	SURR-1CL2FBENZENE
34	34.62	#34.62	1498	16358	VV	2.42	BROMOFORM
36	35.38	#35.38	5465	45418	VV	2.32	1,1,2,2-TETRACHLOROETHANE
37	35.84	#35.84	4431	38494	VV	2.35	1,2,3-TRICHLOROPROPANE
38	36.39	#36.39	2286	16768	VV	2.08	O-CHLOROTOLUENE
39	36.58	#36.58	3007	28692	VV	2.36	P-CHLOROTOLUENE
40	39.02	#39.02	3960	29733	BV	2.42	M-DICHLOROBENZENE
41	39.44	#39.44	4887	45305	VV	2.35	P-DICHLOROBENZENE
42	40.65	#40.65	4301	37335	VV	2.41	O-DICHLOROBENZENE
44	45.53	45.55	4519	30581	VV	2.05	1,2,4-TRICHLOROBENZENE
45	45.89	45.92	7482	51660	VV	2.17	HEXACHLOROBUTADIENE
47	46.86	46.89	4732	36699	VB	2.14	1,2,3-TRICHLOROBENZENE

Reported on Wed Aug 26, 1992 1:19:01 pm
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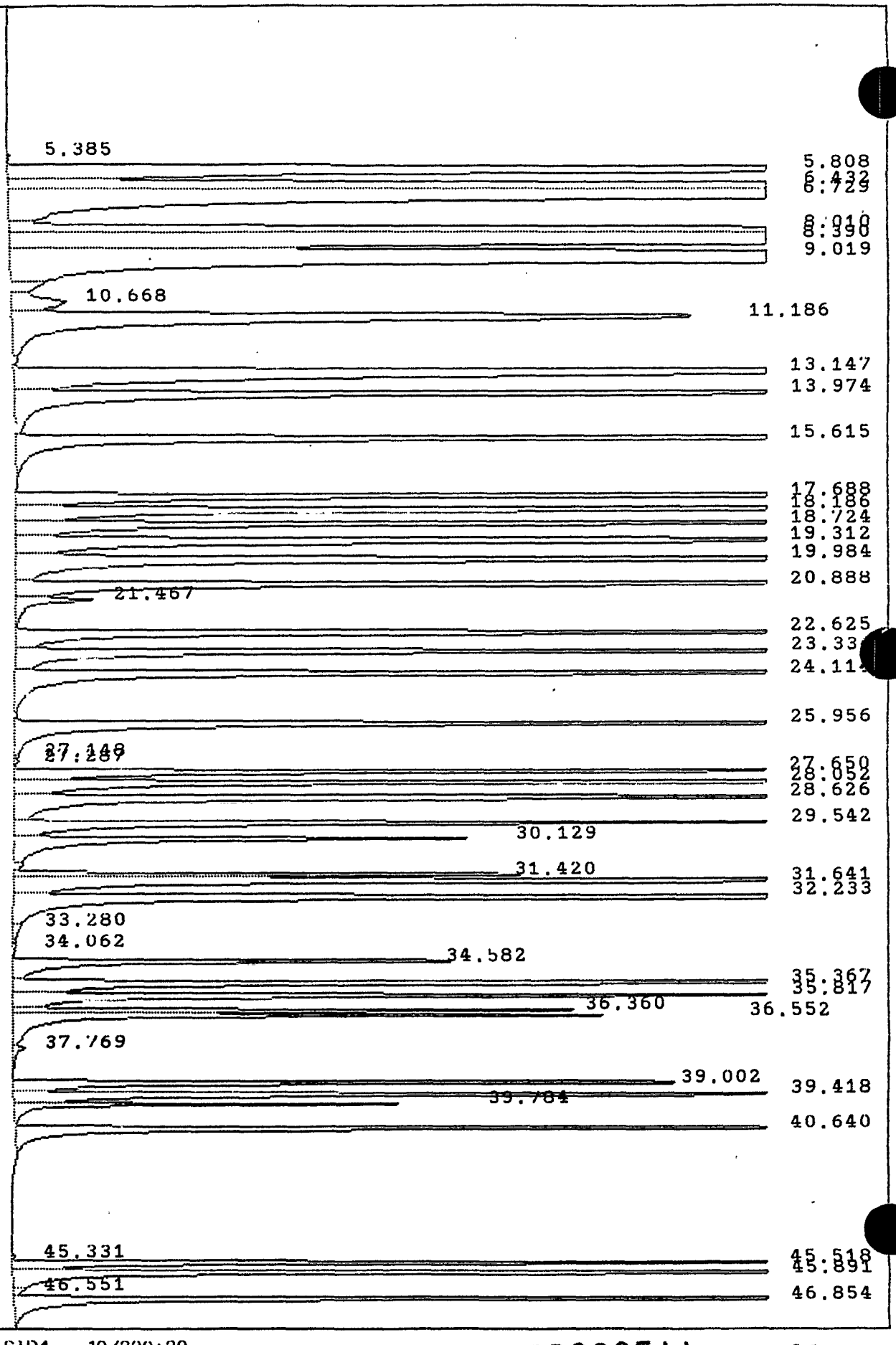

SAMPLE NAME: CALSID4 10/200+20
Resultfile: /CAP/RESULT/H08_239_130.RES

AR303511

Sample Name: CALSTD4 10/200+20
Batch # 92239/A08 Injected on Wed Aug 26, 1992 1:36:13 pm

Reanalyzed to pick up Chloroethane
DMl 7oz 8/27/92

Instrument: TRACOR540#8HALL Employee #634
Calculation: ExternalSTD Quantitation: HeightUnits
[illegible] file: /CAP/RESULT/H08_239_130.RES
Methodfile: /CAP/METHOD/H08_239DSM.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	5.81	5.80	25035	329675	PV	20.00	DICHLORODIFLUOROMETHANE
3	6.43	6.41	18200	200472	VV	20.00	CHLOROMETHANE
4	6.73	6.71	41364	633986	VV	20.00	VINYL CHLORIDE
5	8.01	8.02	13904	182603	VV	20.00	BROMOMETHANE
6	8.39	8.38	44562	686400	VV	21.42	CHLOROETHANE
7	9.02	9.03	53599	946204	VV	20.00	TRICHLOROFLUOROMETHANE
9	11.19	#11.19	9091	190907	VV	5.08	1,1-DICHLOROETHENE
10	13.15	#13.15	14812	267056	VV	4.88	METHYLENE CHLORIDE
11	13.97	#13.97	19482	181390	VV	4.83	TRANS-1,2-DICHLOROETHENE
12	15.62	#15.62	20213	197657	VV	5.18	1,1-DICHLOROETHANE
13	17.69	#17.69	21405	171726	PV	4.97	CIS-1,2-DICHLOROETHENE
14	18.19	#18.19	27097	235149	VV	5.05	CHLOROFORM
15	18.72	#18.72	15063	128496	VV	5.00	BROMOCHLOROMETHANE
[illegible]	19.31	#19.31	18693	199535	VV	4.97	1,1,1-TRICHLOROETHANE
[illegible]	19.98	#19.98	19652	213624	VV	5.27	CARBON TETRACHLORIDE
18	20.89	#20.89	22215	176360	VV	5.29	1,2-DICHLOROETHANE
20	22.62	#22.62	24232	181528	VV	4.98	TRICHLOROETHENE
21	23.33	#23.33	17834	149355	VV	4.93	1,2-DICHLOROPROPANE
22	24.11	#24.11	19458	169849	VV	5.27	BROMODICHLOROMETHANE
23	25.96	#25.96	20145	164159	VV	6.22	CIS-1,3-DICHLOROPROPENE
26	27.65	#27.65	11195	91555	VV	4.15	TRANS-1,3-DICHLOROPROPENE
27	28.05	#28.05	22306	176370	VV	5.24	1,1,2-TRICHLOROETHANE
28	28.63	#28.63	23013	201442	VV	5.04	TETRACHLOROETHENE
29	29.54	#29.54	10406	93237	VV	4.83	DIBROMOCHLOROMETHANE
30	30.13	#30.13	6082	67120	VV	4.84	ETHYLENE DIBROMIDE
31	31.42	#31.42	7525	53053	VV	5.09	CHLOROBENZENE
32	31.64	#31.64	27097	217603	VV	5.07	1,1,1,2-TETRACHLOROETHANE
33	32.23	#32.23	35407	259405	VV	126.47	SURR-1CL2FBENZENE
36	34.58	#34.58	6558	61028	VV	5.37	BROMOFORM
37	35.37	#35.37	17416	134878	VV	5.40	1,1,2,2-TETRACHLOROETHANE
38	35.82	#35.82	12915	103667	VV	5.04	1,2,3-TRICHLOROPROPANE
39	36.36	#36.36	7776	51092	VV	4.96	O-CHLOROTOLUENE
40	36.55	#36.55	8947	81126	VV	5.14	P-CHLOROTOLUENE
42	39.00	#39.00	10493	79300	PV	5.04	M-DICHLOROBENZENE
43	39.42	#39.42	13771	105126	VV	5.41	P-DICHLOROBENZENE
45	40.64	#40.64	12908	98480	VV	5.57	O-DICHLOROBENZENE
47	45.52	45.55	14009	88024	VV	4.92	1,2,4-TRICHLOROBENZENE
48	45.89	45.92	20512	141568	VV	5.15	HEXACHLOROBUTADIENE
50	46.85	46.89	14157	101444	VB	5.21	1,2,3-TRICHLOROBENZENE

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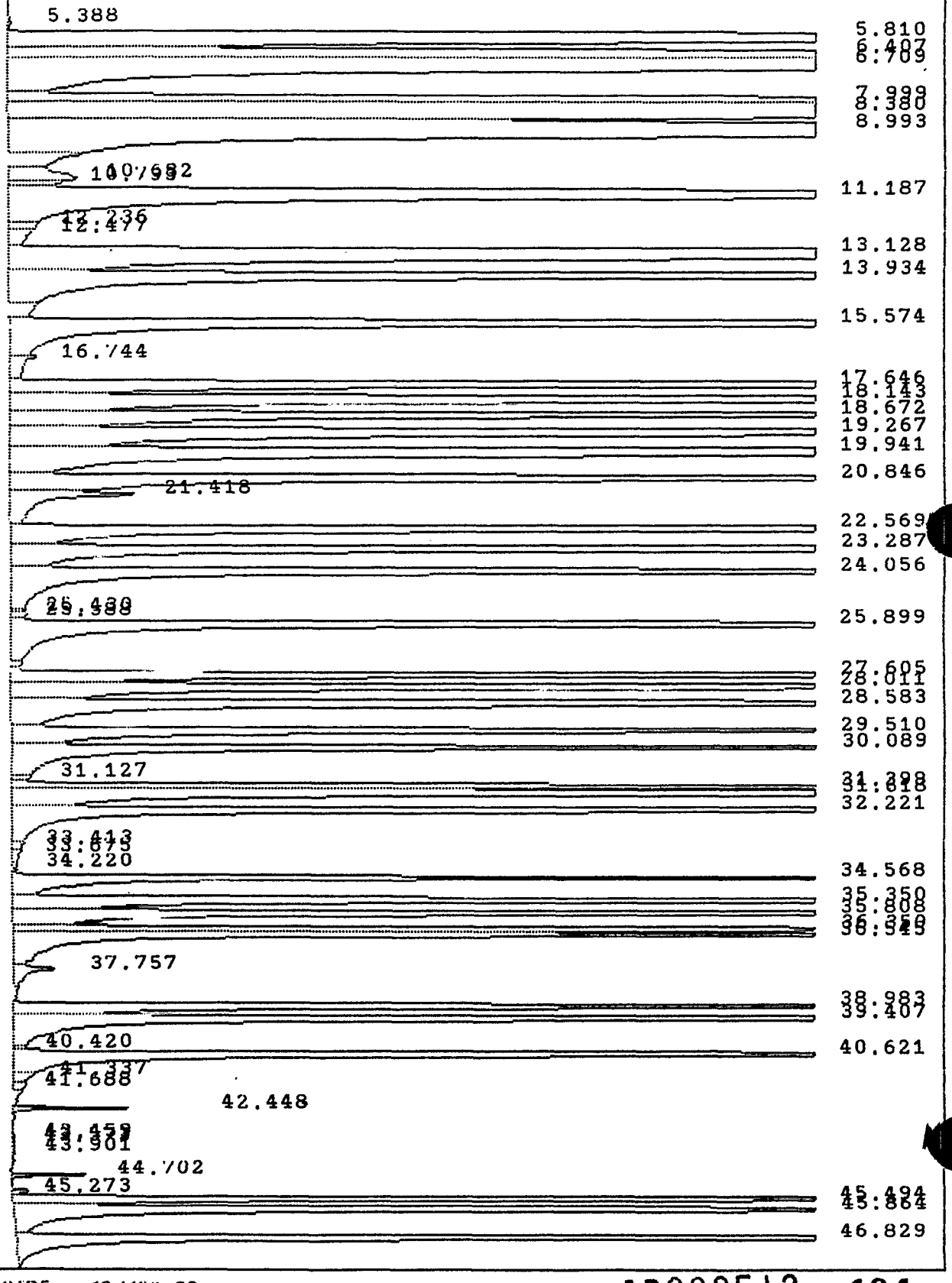

SAMPLE NAME: CALSID5 10/100+20
Resultfile: /CAP/RESULT/H08 239 131.RES

AR303513 104

Reanalyzed to pick up Chloroethane
Dm 1702 8/27/92

Sample Name: CALSID5 10/100+20
Batch # 92239/A08 Injected on Wed Aug 26, 1992 2:44:32 pm

Instrument: TRACOR540#8HALL Employee #634
Calculation: ExternalSTD Quantitation: HeightUnits
tfile: /CAP/RESULT/H08_239_131.RES
nodfile: /CAP/METHOD/H08_239DSM.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RI	IDTime	Height	Area	Code	ug/L	Peak Name
2	5.81	5.80	46993	661600	VV	40.00	DICHLORODIFLUOROMETHANE
3	6.41	6.41	33815	387588	VV	40.00	CHLOROMETHANE
4	6.71	6.71	72664	1105981	VV	40.00	VINYL CHLORIDE
5	8.00	8.02	25887	284242	VV	40.00	BROMOMETHANE
6	8.38	8.38	106280	1376459	VV	40.00	CHLOROETHANE
7	8.99	9.03	94430	1595893	VV	40.00	TRICHLOROFLUOROMETHANE
10	11.19	#11.19	21692	409101	VV	10.16	1,1-DICHLOROETHENE
13	13.13	#13.13	27232	531340	VV	9.76	METHYLENE CHLORIDE
14	13.93	#13.93	46744	416375	VV	9.66	TRANS-1,2-DICHLOROETHENE
15	15.57	#15.57	45803	427398	VV	10.36	1,1-DICHLOROETHANE
17	17.65	#17.65	48236	386870	VV	9.94	CIS-1,2-DICHLOROETHENE
18	18.14	#18.14	64097	524385	VV	10.10	CHLOROFORM
19	18.67	#18.67	32595	268263	VV	10.00	BROMOCHLOROMETHANE
20	19.27	#19.27	38147	434410	VV	9.94	1,1,1-TRICHLOROETHANE
[illegible]	19.94	#19.94	48379	511987	VV	10.54	CARBON TETRACHLORIDE
[illegible]	20.85	#20.85	55260	406789	VV	10.58	1,2-DICHLOROETHANE
24	22.57	#22.57	55127	421384	VV	9.96	TRICHLOROETHENE
25	23.29	#23.29	34941	306912	VV	9.86	1,2-DICHLOROPROPANE
26	24.06	#24.06	44633	365129	VV	10.54	BROMODICHLOROMETHANE
29	25.90	#25.90	41938	333412	VV	12.44	CIS-1,3-DICHLOROPROPENE
30	27.60	#27.60	28846	207214	VV	8.30	TRANS-1,3-DICHLOROPROPENE
31	28.01	#28.01	53451	385072	VV	10.48	1,1,2-TRICHLOROETHANE
32	28.58	#28.58	57789	435399	VV	10.08	TETRACHLOROETHENE
33	29.51	#29.51	25487	205630	VV	9.66	DIBROMOCHLOROMETHANE
34	30.09	#30.09	15534	155843	VV	9.68	ETHYLENE DIBROMIDE
36	31.40	#31.40	16886	113737	VV	10.18	CHLOROBENZENE
37	31.62	#31.62	54248	420429	VV	10.14	1,1,1,2-TETRACHLOROETHANE
38	32.22	#32.22	36460	262404	VV	130.23	SURR-1CL2FBENZENE
42	34.57	#34.57	16570	143127	VV	10.74	BROMOFORM
43	35.35	#35.35	41443	299467	VV	10.80	1,1,2,2-TETRACHLOROETHANE
44	35.81	#35.81	32330	248842	VV	10.08	1,2,3-TRICHLOROPROPANE
45	36.35	#36.35	20132	126942	VV	9.92	O-CHLOROTOLUENE
46	36.54	#36.54	19764	172653	VV	10.28	P-CHLOROTOLUENE
48	38.98	#38.98	27708	199952	VV	10.08	M-DICHLOROBENZENE
49	39.41	#39.41	41001	300186	VV	10.82	P-DICHLOROBENZENE
51	40.62	#40.62	33041	233759	VV	11.14	O-DICHLOROBENZENE
60	45.49	45.55	40670	224097	VV	9.84	1,2,4-TRICHLOROBENZENE
61	45.86	45.92	49270	321169	VV	10.30	HEXACHLOROBUTADIENE
62	46.83	46.89	33509	221096	VB	10.42	1,2,3-TRICHLOROBENZENE

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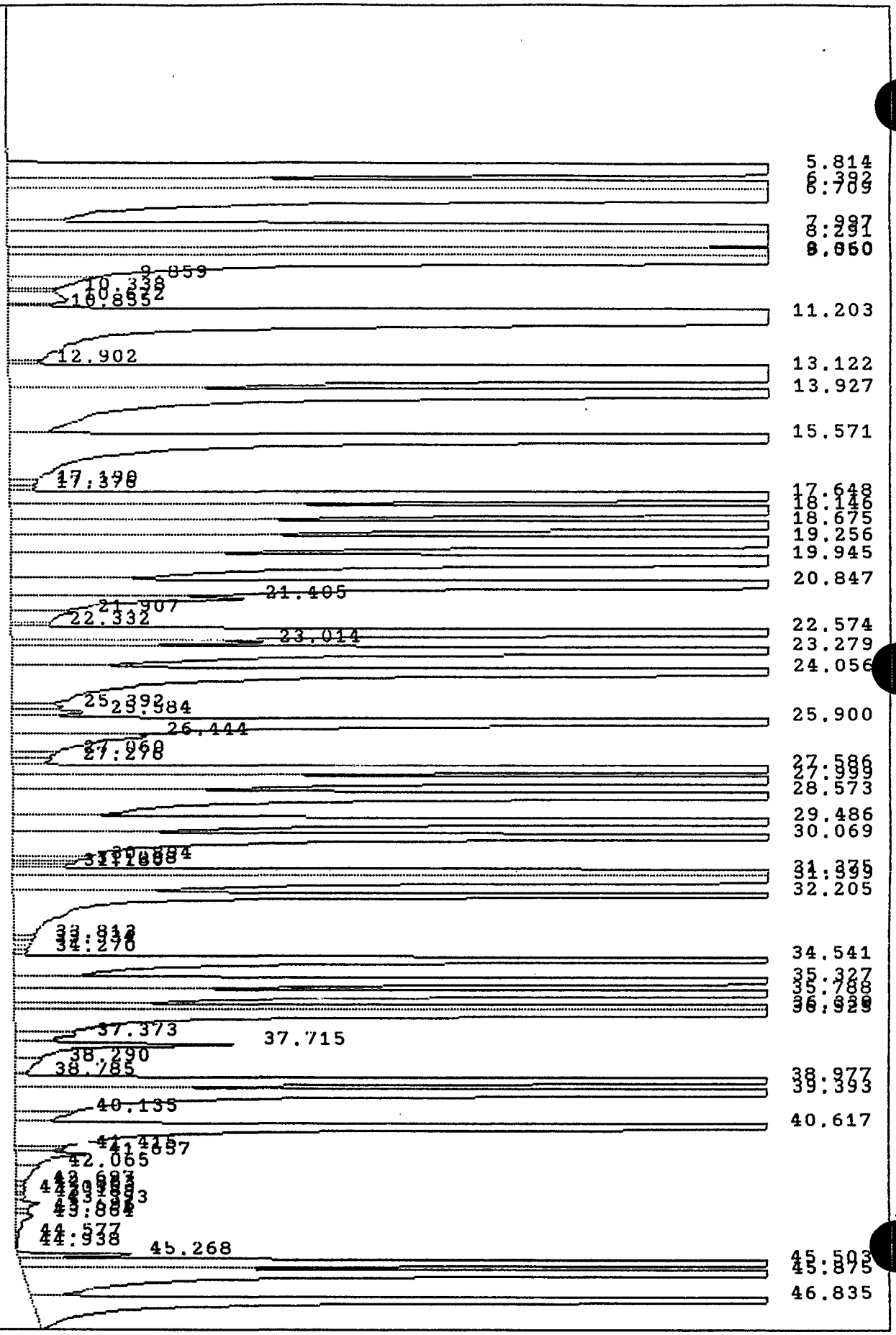
AR303514



SAMPLE NAME: CALSTD6 25/50+15
Resultfile: /CAP/RESULT/H08_239_132.RES
Plot Fields: 225 - 3250 Instrument - TRACOR540#8HALL

AR303515

Sample Name: CALSTD6 25/50+15
Batch # 92239/A08 Injected on Wed Aug 26, 1992 3:53:09 pm

Instrument: TRACOR540#8HALL Employee #634
[illegible]ation: ExternalSTD Quantitation: HeightUnits
[illegible]file: /CAP/RESULT/H08_239_132.RES
Methodfile: /CAP/METHOD/H08_239.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.81	5.81	71133	958242	BV	63.57	DICHLORODIFLUOROMETHANE
2	6.39	6.42	52364	628671	VV	61.46	CHLOROMETHANE
3	6.71	6.72	123344	1771805	VV	119.06	VINYL CHLORIDE
4	8.00	8.03	48499	586769	VV	57.90	BROMOMETHANE
5	8.29	8.29	137327	1926354	VV	87.43	CHLOROETHANE
7	9.05	9.04	127701	1117181	VV	68.29	TRICHLOROFLUOROMETHANE
12	11.20	#11.20	105487	1913055	VV	57.12	1,1-DICHLOROETHENE
14	13.12	#13.12	125017	2303925	VV	39.39	METHYLENE CHLORIDE
15	13.93	#13.93	229275	1742294	VV	66.83	TRANS-1,2-DICHLOROETHENE
16	15.57	#15.57	198489	1821278	VV	65.41	1,1-DICHLOROETHANE
19	17.65	#17.65	228803	1716880	VV	69.78	CIS-1,2-DICHLOROETHENE
20	18.15	#18.15	274054	2209951	VV	52.91	CHLOROFORM
21	18.67	#18.67	166276	1341180	VV	50.47	BROMOCHLOROMETHANE
[illegible]	19.26	#19.26	182851	1892884	VV	76.93	1,1,1-TRICHLOROETHANE
[illegible]	9.94	#19.94	224207	2353932	VV	58.17	CARBON TETRACHLORIDE
24	20.85	#20.85	241373	1803524	VV	68.84	1,2-DICHLOROETHANE
28	22.57	#22.57	235134	1705683	VV	61.78	TRICHLOROETHENE
30	23.28	#23.28	212634	1568303	VV	56.36	1,2-DICHLOROPROPANE
31	24.06	#24.06	212519	1672509	VV	56.98	BROMODICHLOROMETHANE
34	25.90	#25.90	241281	1642103	VV	61.90	CIS-1,3-DICHLOROPROPENE
38	27.59	#27.59	157591	1058640	VV	42.07	TRANS-1,3-DICHLOROPROPENE
39	28.00	#28.00	256465	1807160	VV	59.15	1,1,2-TRICHLOROETHANE
40	28.57	#28.57	242878	1763290	VV	59.84	TETRACHLOROETHENE
41	29.49	#29.49	139369	1012481	VV	57.53	DIBROMOCHLOROMETHANE
42	30.07	#30.07	88007	701491	VV	64.30	ETHYLENE DIBROMIDE
46	31.38	#31.38	94191	613429	VV	51.04	CHLOROBENZENE
47	31.60	#31.60	260602	1955957	VV	58.66	1,1,1,2-TETRACHLOROETHANE
48	32.21	#32.21	32299	288249	VV	127.36	SURR-1CL2FBENZENE
52	34.54	#34.54	102755	724574	VV	72.88	BROMOFORM
53	35.33	#35.33	186913	1258620	VV	65.77	1,1,2,2-TETRACHLOROETHANE
54	35.79	#35.79	160344	1070098	VV	71.26	1,2,3-TRICHLOROPROPANE
55	36.34	#36.34	92036	591338	VV	63.94	O-CHLOROTOLUENE
56	36.52	#36.52	88035	665657	VV	52.41	P-CHLOROTOLUENE
61	38.98	#38.98	150442	955575	VV	72.95	M-DICHLOROBENZENE
62	39.39	#39.39	179391	1167607	VV	66.44	P-DICHLOROBENZENE
64	40.62	#40.62	164191	1096628	VV	63.06	O-DICHLOROBENZENE
78	45.50	45.55	186719	1036187	VV	59.77	1,2,4-TRICHLOROBENZENE
79	45.87	45.92	246176	1466912	VV	61.98	HEXACHLOROBUTADIENE
[illegible]	46.84	46.89	181802	1095255	VB	63.09	1,2,3-TRICHLOROBENZENE

Repo[illegible].ed on Wed Aug 26, 1992 4:57:02 pm
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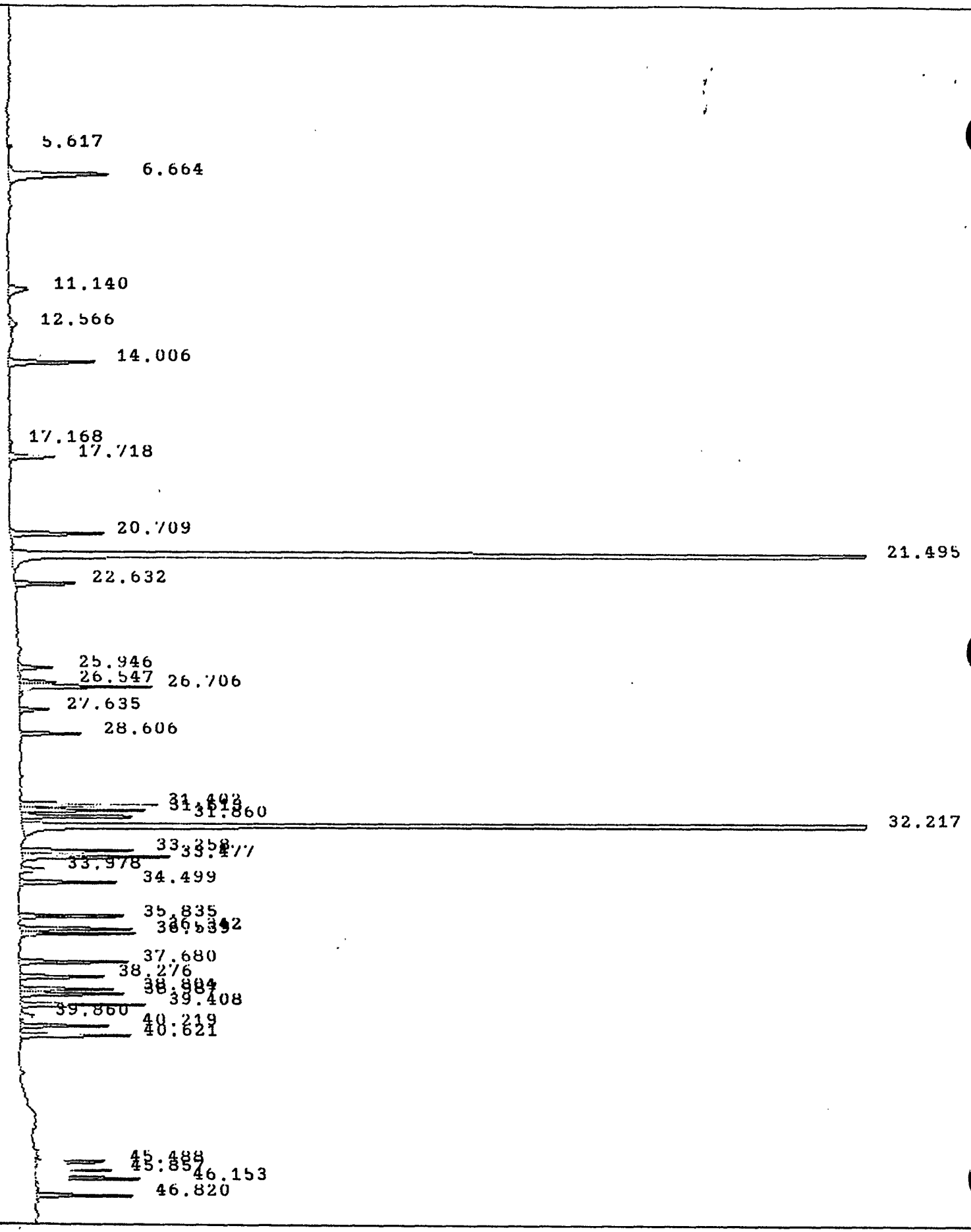


SAMPLE NAME: CALSID1 2.5-500+12.5
Resultfile: /CAP/RESULT/P08_239_127.RES
Plot Fields: 6920 - 8920 Instrument - TRACOR540#8PI

AR303517

Sample Name: CALSTD1 2.5-500+12.5
Batch # 92239/A08 Injected on Wed Aug 26, 1992 8:20:17 am

Instrument: TRACOR540#8PID Employee #/02
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_239_127.RES
Method file: /CAP/METHOD/P08_239.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

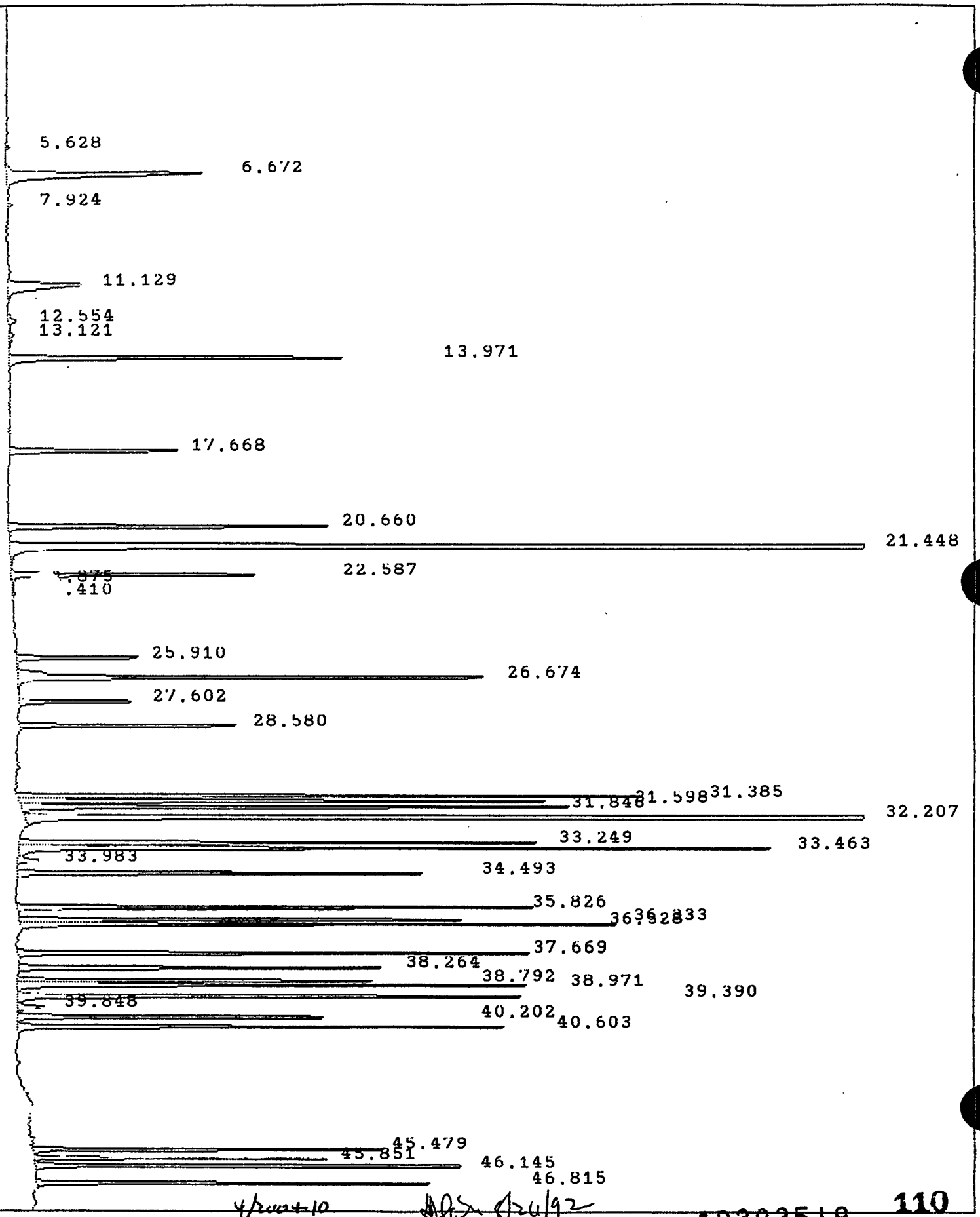
Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
3	11.14	11.14	208	2515	BV	.64	1,1-DICHLOROETHENE
5	14.01	#14.01	882	6247	PV	.50	TRANS-1,2-DICHLOROETHENE
7	17.72	#17.72	476	3655	VV	.49	CIS-1,2-DICHLOROETHENE
8	20.71	#20.71	927	6313	BV	.51	BENZENE
9	21.50	#21.50	35117	221006	VV	100.86	SURR-FBENZENE
10	22.63	#22.63	678	4138	BV	.49	TRICHLOROETHENE
11	25.95	#25.95	353	2424	VV	.60	CIS-1,3-DICHLOROPROPENE
13	26.71	#26.71	1318	8982	VV	.48	TOLUENE
14	27.64	#27.64	298	1775	PB	.39	TRANS-1,3-DICHLOROPROPENE
15	28.61	#28.61	615	3404	BV	.54	TETRACHLOROETHENE
[illegible]	31.40	#31.40	1414	7756	BV	.50	CHLOROBENZENE
[illegible]	1.61	#31.61	1246	7072	VV	.51	ETHYLBENZENE
18	31.86	#31.86	1348	7593	VV	.49	M-XYLENE
19	32.22	#32.22	44411	231385	PV		ISTD-1CL2FBENZENE
20	33.26	#33.26	1169	6461	BV	.51	O-XYLENE
21	33.48	#33.48	1576	8787	VV	.52	STYRENE
23	34.50	#34.50	963	5483	BB	.53	CUMENE
24	35.83	#35.83	1289	7125	BB	.55	N-PROPYLBENZENE
25	36.34	#36.34	1199	6473	BV	.48	O-CHLOROTOLUENE
26	36.54	#36.54	1336	7315	VV	.49	P-CHLOROTOLUENE
27	37.68	#37.68	1170	6544	BB	.49	1,2,4-TRIMETHYLBENZENE
28	38.28	#38.28	863	5032	BV	.51	SEC-BUTYLBENZENE
29	38.80	#38.80	955	5155	BV	.53	P-ISOPROPYLTOLUENE
30	38.99	#38.99	1126	6324	VB	.47	M-DICHLOROBENZENE
31	39.41	#39.41	1259	6916	BB	.51	P-DICHLOROBENZENE
33	40.22	#40.22	940	5227	BB	.51	N-BUTYLBENZENE
34	40.62	#40.62	1156	6309	BB	.52	O-DICHLOROBENZENE
35	45.49	45.50	973	4178	BB	.46	1,2,4-TRICHLOROBENZENE
36	45.86	45.87	828	3741	BV	.60	HEXACHLOROBUTADIENE
37	46.15	46.17	1291	5757	PB	.49	NAPHTHALENE
38	46.82	46.84	1003	4643	BB	.48	1,2,3-TRICHLOROBENZENE

Internal Standard Range: - (Midpoint -)

Reported on Wed Aug 26, 1992 10:33:20 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



4/2003-10 Alex 4/26/92

AR303519

110

SAMPLE NAME: CALSID2 ~~1.5 200+7.5~~

resultfile: /CAP/RESULT/P08 239 129.RES

Sample Name: CALSID2 ~~1.5-200+7.5~~ 4/200+10 [illegible] 8/26/92
Batch # 92239/A08 Injected on Wed Aug 26, 1992 12:14:11 pm

Instrument: TRACOR540#8PID Employee #702
[illegible]ation: InternalSTD Quantitation: HeightUnits
[illegible]tfile: /CAP/RESULT/P08_239_129.RES
[illegible]odfile: /CAP/METHOD/P08_239.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
4	11.13	11.12	724	10607	VV	2.25	1,1-DICHLOROETHENE
7	13.97	#13.97	3777	24432	BV	1.85	TRANS-1,2-DICHLOROETHENE
8	17.67	#17.67	1840	11765	BV	2.00	CIS-1,2-DICHLOROETHENE
9	20.66	#20.66	3248	21001	PV	1.52	BENZENE
10	21.45	#21.45	31952	201261	BV	92.40	SURR-FBENZENE
11	22.59	#22.59	2833	16874	VV	1.61	TRICHLOROETHENE
14	25.91	#25.91	1492	8580	BV	2.38	CIS-1,3-DICHLOROPROPENE
15	26.67	#26.67	5753	35606	PV	2.02	TOLUENE
16	27.60	#27.60	1463	8047	PB	1.78	TRANS-1,3-DICHLOROPROPENE
[illegible]	28.58	#28.58	2578	14199	BV	1.92	TETRACHLOROETHENE
[illegible]	1.39	#31.39	6460	33373	BV	2.04	CHLOROBENZENE
[illegible]	31.60	#31.60	5551	30226	VV	2.02	ETHYLBENZENE
20	31.85	#31.85	5995	32499	VV	1.93	M-XYLENE
21	32.21	#32.21	44110	229962	VV		ISTD-1CL2FBENZENE
22	33.25	#33.25	5223	27695	BV	2.07	O-XYLENE
23	33.46	#33.46	7653	40900	VV	2.21	STYRENE
25	34.49	#34.49	4176	22963	BB	2.06	CUMENE
26	35.83	#35.83	5721	29904	BB	2.15	N-PROPYLBENZENE
27	36.33	#36.33	5372	27687	BV	1.98	O-CHLOROTOLUENE
28	36.53	#36.53	6282	32679	VB	2.08	P-CHLOROTOLUENE
29	37.67	#37.67	5234	27436	BB	2.01	1,2,4-TRIMETHYLBENZENE
30	38.26	#38.26	3619	19913	BV	1.99	SEC-BUTYLBENZENE
31	38.79	#38.79	4059	21262	BV	2.07	P-ISOPROPYLTOLUENE
32	38.97	#38.97	5270	27909	VV	2.02	M-DICHLOROBENZENE
33	39.39	#39.39	5916	30251	VV	2.09	P-DICHLOROBENZENE
35	40.20	#40.20	4025	21073	PV	1.98	N-BUTYLBENZENE
36	40.60	#40.60	5029	26171	VV	2.21	O-DICHLOROBENZENE
37	45.48	45.50	4239	17586	BB	1.90	1,2,4-TRICHLOROBENZENE
38	45.85	45.87	3118	13391	BV	2.11	HEXACHLOROBUTADIENE
39	46.15	46.17	6543	27377	PB	2.08	NAPHTHALENE
40	46.81	46.84	4475	19383	BB	2.03	1,2,3-TRICHLOROBENZENE

Internal Standard Range: - (Midpoint -)

Reported on Wed Aug 26, 1992 1:08:30 pm
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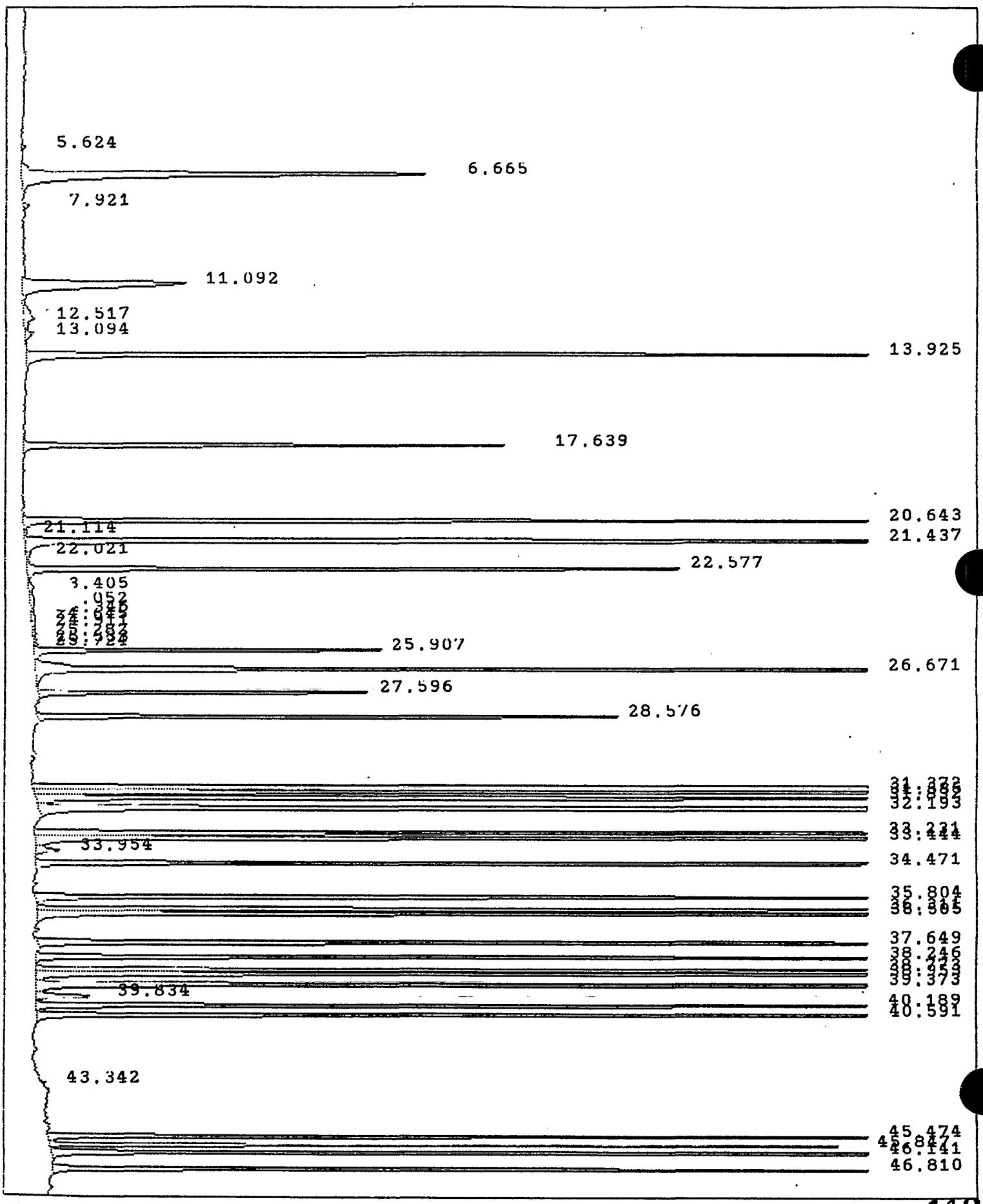

SAMPLE NAME: CALSID3 10/200+20
Resultfile: /CAP/RESULT/P08 239 130.RES

AR303521

Sample Name: CALSTD3 10/200+20
Batch # 92239/A08 Injected on Wed Aug 26, 1992 1:36:13 pm

Instrument: TRACOR540#8PID Employee #634
[illegible]lation: InternalSTD Quantitation: HeightUnits
[illegible]tfile: /CAP/RESULT/P08_239_130.RES
Methodfile: /CAP/METHOD/P08_239.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
4	11.09	11.08	1537	25853	VV	4.70	1,1-DICHLOROETHENE
7	13.92	#13.92	10342	64033	VV	4.83	TRANS-1,2-DICHLOROETHENE
8	17.64	#17.64	4902	30333	PV	5.09	CIS-1,2-DICHLOROETHENE
9	20.64	#20.64	9595	61704	PV	4.95	BENZENE
11	21.44	#21.44	31866	200664	VV	94.45	SURR-FBENZENE
13	22.58	#22.58	7465	44648	VV	4.92	TRICHLOROETHENE
22	25.91	#25.91	4198	23341	VV	6.42	CIS-1,3-DICHLOROPROPENE
23	26.67	#26.67	14496	85660	VV	4.86	TOLUENE
24	27.60	#27.60	4085	21532	PB	4.14	TRANS-1,3-DICHLOROPROPENE
[illegible]	28.58	#28.58	6761	36915	BV	4.89	TETRACHLOROETHENE
[illegible]	1.37	#31.37	17690	90245	BV	5.18	CHLOROBENZENE
27	31.59	#31.59	14504	78653	VV	5.08	ETHYLBENZENE
28	31.83	#31.83	16148	86906	VV	4.93	M-XYLENE
29	32.19	#32.19	43036	225973	VV		ISTD-1CL2FBENZENE
30	33.23	#33.23	14329	74541	BV	5.26	O-XYLENE
31	33.44	#33.44	21063	110329	VV	5.56	STYRENE
33	34.47	#34.47	11223	60858	BB	5.11	CUMENE
34	35.80	#35.80	15563	80694	PV	5.28	N-PROPYLBENZENE
35	36.31	#36.31	14942	76126	BV	5.02	O-CHLOROTOLUENE
36	36.50	#36.50	17273	89601	VB	5.19	P-CHLOROTOLUENE
37	37.65	#37.65	14560	74863	BV	5.09	1,2,4-TRIMETHYLBENZENE
38	38.25	#38.25	10138	54606	BB	4.86	SEC-BUTYLBENZENE
39	38.77	#38.77	11378	58386	BV	5.05	P-ISOPROPYLTOLUENE
40	38.95	#38.95	14719	76815	VV	5.11	M-DICHLOROBENZENE
41	39.37	#39.37	16686	83753	VV	5.53	P-DICHLOROBENZENE
43	40.19	#40.19	11428	58361	PV	4.79	N-BUTYLBENZENE
44	40.59	#40.59	14134	71621	VB	5.77	O-DICHLOROBENZENE
46	45.47	45.50	12189	48746	BV	4.88	1,2,4-TRICHLOROBENZENE
47	45.85	45.87	8506	35912	VV	5.02	HEXACHLOROBUTADIENE
48	46.14	46.17	17863	74429	VV	5.17	NAPHTHALENE
49	46.81	46.84	12472	53320	BV	5.14	1,2,3-TRICHLOROBENZENE

Internal Standard Range: - (Midpoint -)

Reported on Wed Aug 26, 1992 2:28:50 pm
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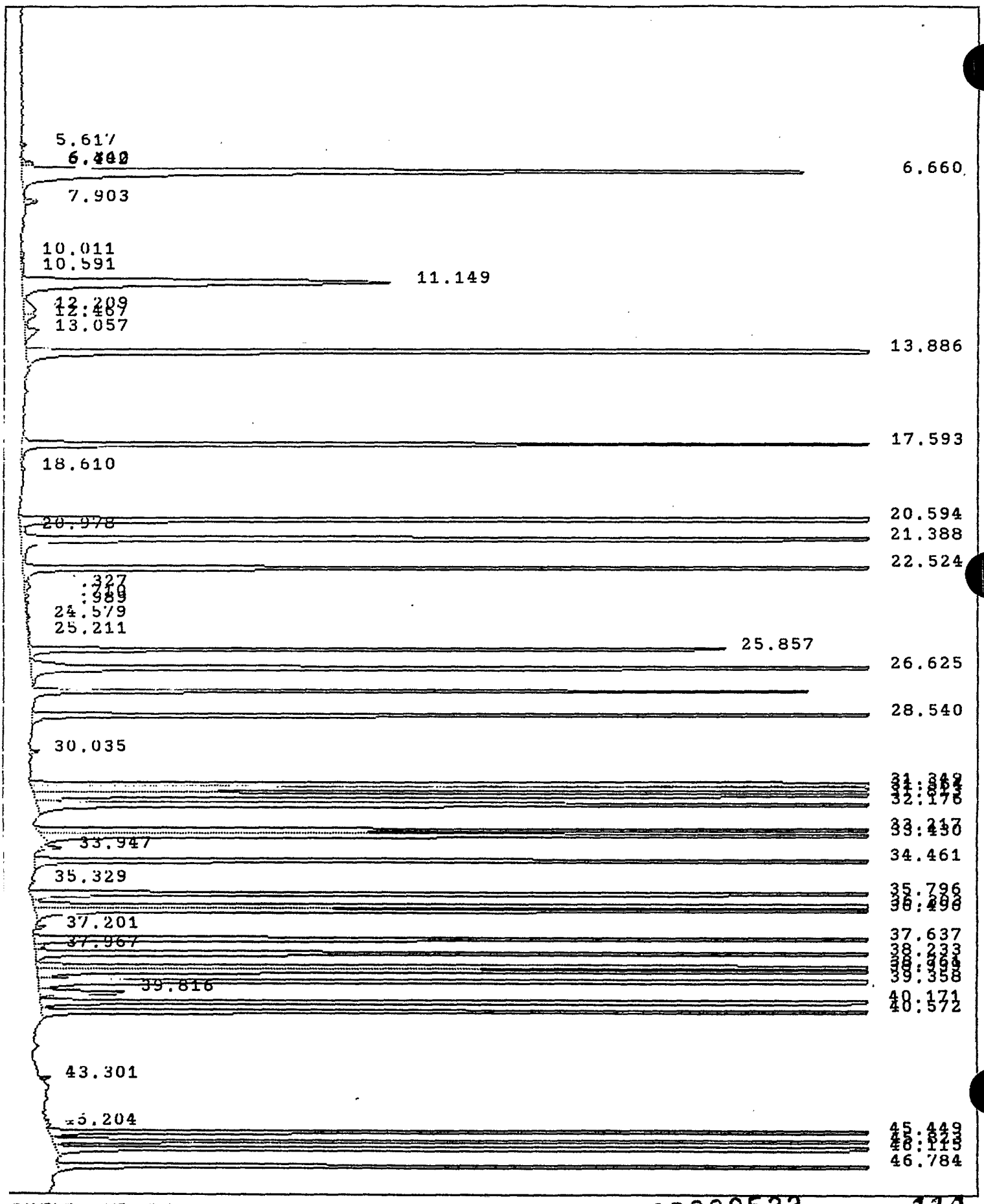

SAMPLE NAME: CALSID4 10/100+20
Resultfile: /CAP/RESULT/P08_239_131.RES

AR303523

Sample Name: CALSTD4 10/100+20
Batch # 92239/A08 Injected on Wed Aug 26, 1992 2:44:32 pm

Instrument: TRACOR540#8PID Employee #634
'ation: InternalSTD Quantitation: HeightUnits
.tfile: /CAP/RESULT/P08_239_131.RES
Methodfile: /CAP/METHOD/P08_239.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDtime	Height	Area	Code	ug/L	Peak Name
8	11.15	11.08	3448	57132	VV	8.45	1,1-DICHLOROETHENE
12	13.89	#13.92	22597	140004	PV	9.82	TRANS-1,2-DICHLOROETHENE
13	17.59	#17.64	10547	65687	VV	10.18	CIS-1,2-DICHLOROETHENE
15	20.59	#20.64	18124	118210	PV	8.94	BENZENE
17	21.39	#21.44	31014	196280	VV	88.05	SURR-FBENZENE
18	22.52	#22.58	15528	93230	VV	9.89	TRICHLOROETHENE
24	25.86	#25.91	8997	48226	PV	12.62	CIS-1,3-DICHLOROPROPENE
25	26.63	#26.67	30675	178214	VV	9.87	TOLUENE
26	28.54	#28.58	15071	83693	BV	10.37	TETRACHLOROETHENE
[illegible]	31.35	#31.37	37769	193561	BV	10.41	CHLOROBENZENE
[illegible]	1.56	#31.59	30432	166986	VV	10.44	ETHYLBENZENE
30	31.81	#31.83	34268	187400	VV	9.86	M-XYLENE
31	32.18	#32.19	44927	235735	VV		ISTD-1CL2FBENZENE
32	33.22	#33.23	30509	160795	BV	10.44	O-XYLENE
33	33.43	#33.44	44696	231677	VV	11.06	STYRENE
35	34.46	#34.47	24254	133681	BB	10.52	CUMENE
37	35.80	#35.80	34025	178043	BV	10.87	N-PROPYLBENZENE
38	36.30	#36.31	32022	165648	VV	10.10	O-CHLOROTOLUENE
39	36.50	#36.50	37224	191494	VV	10.48	P-CHLOROTOLUENE
41	37.64	#37.65	31060	162308	BV	10.29	1,2,4-TRIMETHYLBENZENE
43	38.23	#38.25	22790	124661	VV	10.08	SEC-BUTYLBENZENE
44	38.76	#38.77	25559	131017	VV	10.60	P-ISOPROPYLTOLUENE
45	38.94	#38.95	31420	162951	VV	10.23	M-DICHLOROBENZENE
46	39.36	#39.37	35640	178349	VV	10.96	P-DICHLOROBENZENE
48	40.17	#40.19	25998	132639	PV	10.09	N-BUTYLBENZENE
49	40.57	#40.59	29425	150687	VV	11.21	O-DICHLOROBENZENE
52	45.45	45.50	26258	105060	BV	9.96	1,2,4-TRICHLOROBENZENE
53	45.82	45.87	18731	80429	VV	10.75	HEXACHLOROBUTADIENE
54	46.11	46.17	40542	168409	VV	11.69	NAPHTHALENE
55	46.78	46.84	26797	114543	PV	10.71	1,2,3-TRICHLOROBENZENE

Internal Standard Range: - (Midpoint -)

Reported on Wed Aug 26, 1992 3:38:46 pm
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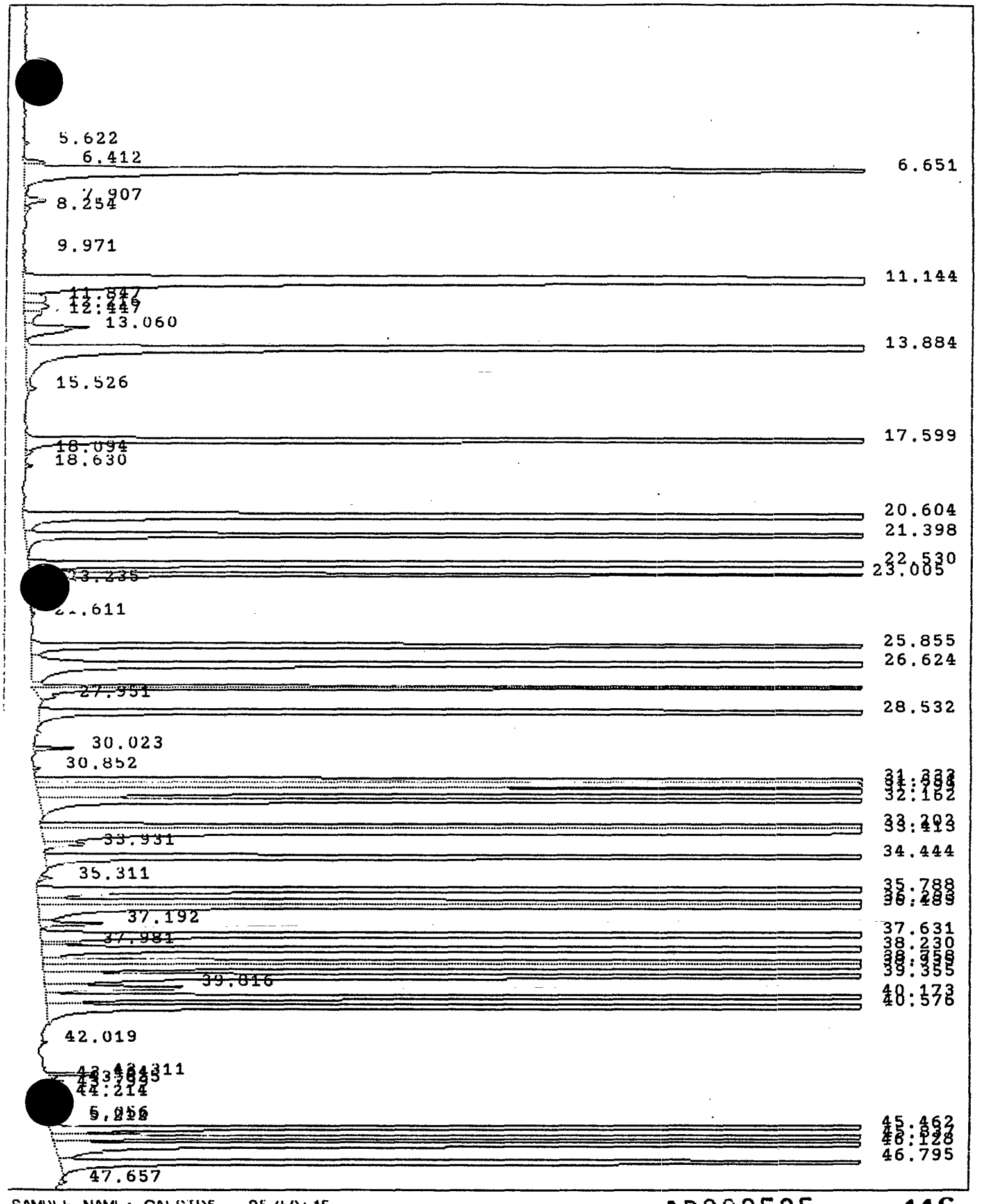


SAMPLE NAME: CALSTD5 25/50+15
Resultfile: /CAP/RESULT/P08_239_132.RES

AR303525

Sample Name: CALSTD5 25/50+15
Batch # 92239/A08 Injected on Wed Aug 26, 1992 3:53:09 pm

Instrument: TRACOR540#8PID Employee #634
Calculation: InternalSTD Quantitation: HeightUnits
Re tfile: /CAP/RESULT/P08_239_132.RES
Metnodfile: /CAP/METHOD/P08_239.MTH
EPA METHOD 602.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
7	11.14	11.08	16906	286073	VV	45.58	1,1-DICHLOROETHENE
12	13.88	#13.92	112459	688620	VV	49.24	TRANS-1,2-DICHLOROETHENE
14	17.60	#17.64	51302	318143	BV	50.64	CIS-1,2-DICHLOROETHENE
17	20.60	#20.64	82433	545023	PV	43.62	BENZENE
18	21.40	#21.44	27106	171180	VV	83.94	SURR-FBENZENE
19	22.53	#22.58	62739	393776	PV	51.07	TRICHLOROETHENE
23	25.85	#25.91	43700	235352	BV	64.93	CIS-1,3-DICHLOROPROPENE
24	26.62	#26.67	147802	847634	VV	50.02	TOLUENE
26	28.53	#28.58	64599	373705	BB	52.46	TETRACHLOROETHENE
29	31.33	#31.37	183395	954317	BV	52.48	CHLOROBENZENE
30	31.55	#31.59	120553	706376	VV	54.08	ETHYLBENZENE
31	31.80	#31.83	163141	889725	VV	50.19	M-XYLENE
32	32.16	#32.19	41192	224763	VB		ISTD-1CL2FBENZENE
33	33.20	#33.23	148434	797041	BV	52.94	O-XYLENE
34	33.41	#33.44	219225	1146457	VV	56.56	STYRENE
36	34.44	#34.47	99704	594266	BV	54.55	CUMENE
38	35.79	#35.80	186440	1000498	BV	65.68	N-PROPYLBENZENE
39	36.29	#36.31	156319	822242	VV	51.19	O-CHLOROTOLUENE
40	36.49	#36.50	182622	944492	VV	53.10	P-CHLOROTOLUENE
42	37.63	#37.65	145389	779410	VV	51.94	1,2,4-TRIMETHYLBENZENE
44	38.23	#38.25	108832	613199	VV	50.81	SEC-BUTYLBENZENE
45	38.76	#38.77	122846	650061	VV	53.50	P-ISOPROPYLTOLUENE
46	38.93	#38.95	145250	782952	VV	52.88	M-DICHLOROBENZENE
47	39.36	#39.37	170253	875550	VV	56.23	P-DICHLOROBENZENE
49	40.17	#40.19	124831	657978	VV	50.65	N-BUTYLBENZENE
50	40.58	#40.59	137300	738431	VB	58.22	O-DICHLOROBENZENE
59	45.46	45.50	116688	493201	PV	52.28	1,2,4-TRICHLOROBENZENE
60	45.84	45.87	81323	364009	VV	54.37	HEXACHLOROBUTADIENE
61	46.13	46.17	196094	825197	VV	60.64	NAPHTHALENE
62	46.79	46.84	116869	535355	VV	56.33	1,2,3-TRICHLOROBENZENE

Internal Standard Range: - (Midpoint -)

Reported on Wed Aug 26, 1992 4:49:01 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT

Lancaster Laboratories
Where quality is a science.

Quality Control Summary

Matrix Spike/Matrix Spike Duplicate
Volatiles by GC

Unspiked Sample Number : 1868474 Inj. : 383
Spiked Sample Number : 1868475 Inj. : 384
Spiked Dup Sample Number : 1868476 Inj. : 385

Batch Number : 92265/A08 Date : 09/21/92
Matrix : Water

This MS/MSD applies to the following samples	Compound	Spike Added ug/l	Sample Conc ug/l	MS Conc ug/l	MSD Conc ug/l	MS % REC	MSD % REC	QC Limits REC	RPD	QC Limits RPD
1868474	Vinyl chloride	20.0	ND	17.7	10.2	88.3	50.9 *	65 -130	53.7 *	20
1868475	1,1-Dichloroethene	8.1	ND	6.5	5.7	79.7	69.7 *	75 -125	13.3	15
1868476	1,1,1-Trichloroethane	8.0	1.7	10.6	8.8	111.2	88.9	75 -125	22.3 *	15
1868477	Carbon Tetrachloride	8.4	ND	7.7	7.6	91.0	89.9	75 -125	1.2	15
1868478	1,2-Dichloroethane	8.5	0.9	7.6	8.7	79.9	92.7	75 -125	14.8	15
1868479	Trichloroethene	8.0	25.9	34.1	34.8	103.1	111.8	75 -125	8.1	15
1868480	p-Dichlorobenzene	8.7	ND	7.4	7.4	85.5	85.3	75 -125	0.3	15
1868481	Benzene	8.0	ND	6.8	6.6	85.1	82.6	75 -125	3.0	15
1868482										
1868483										
1868484										
1868485										
1868486										
1868487										
1868488										

ABBREVIATION KEY
MS = Matrix Spike
MSD = Matrix Spike Duplicate
ND = None Detected
RPD = Relative Percent Difference

COMMENTS: Recovery of vinyl chloride and 1,1-dichloroethene in the MSD is outside specifications. However, the corresponding check standard is acceptable and shows the system to be in calibration.

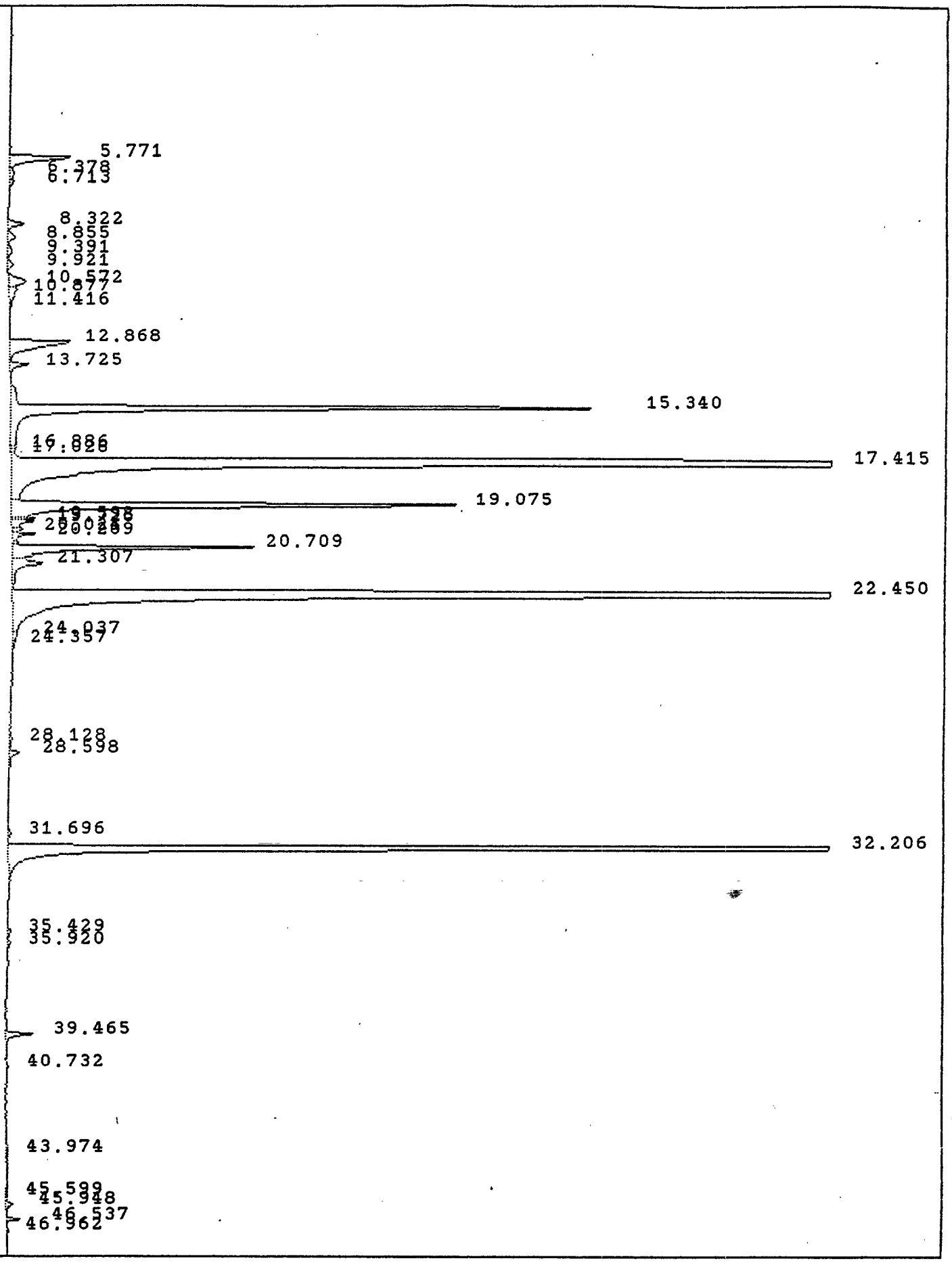
The RPD value for vinyl chloride and 1,1,1-trichloroethane is outside QC limits as set by Lancaster Laboratories, Inc. However, method 502.2 does not specify QC limits for this parameter when a calibration curve is used. In addition, these compounds were not detected in any of the samples, so no action was taken.

AR303527

Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601-5994 • 717-656-2301 • Fax: 717-656-2681

SAMPLE DATA

AR303528



SAMPLE NAME: 1868474
Resultfile: /CAP/RESULT/H08_265_383.RES
Plot Fields: 500 - 3000 Instrument - TRACOR540

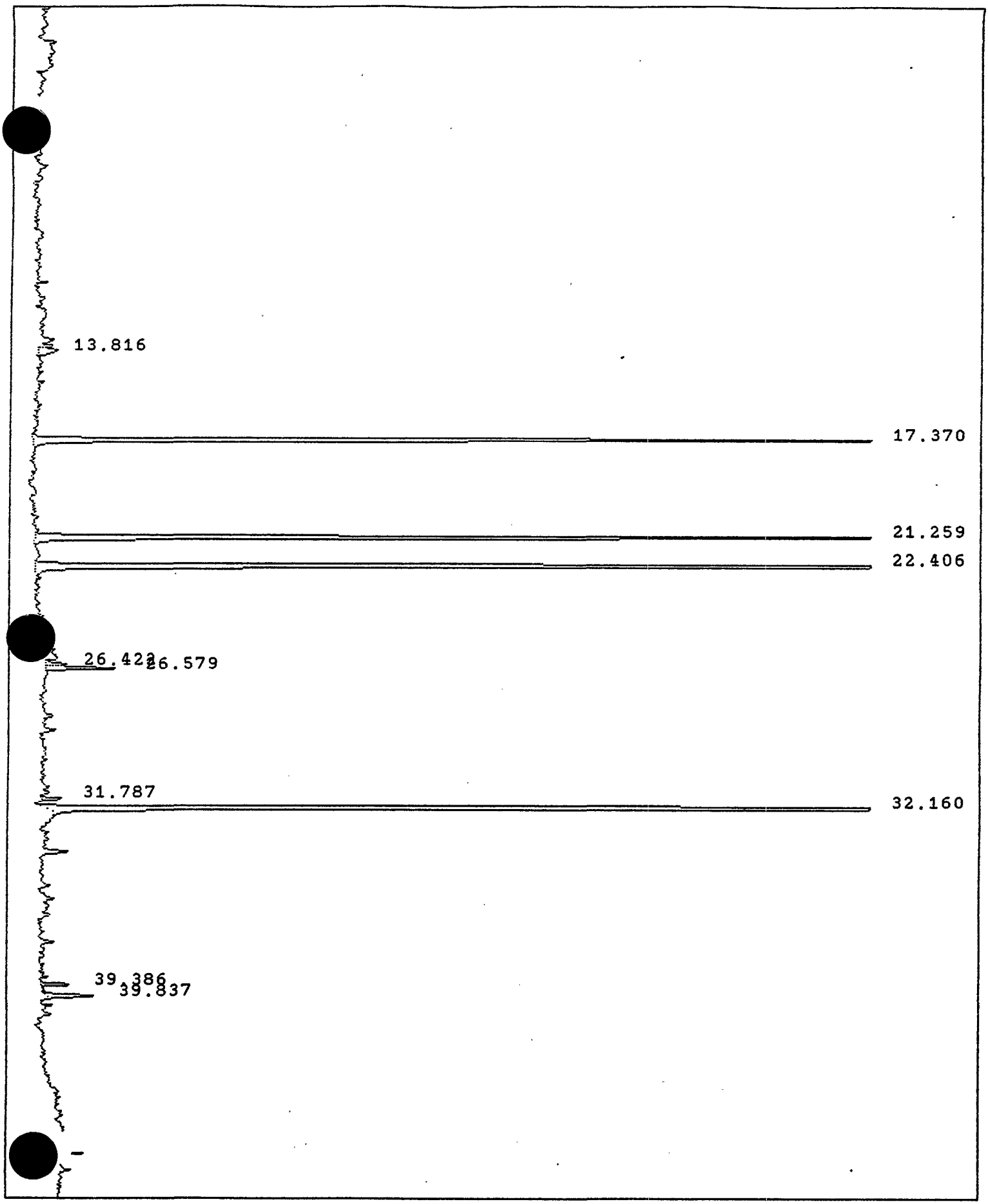
Sample Name: 1868474
Batch # 92265/A08 Injected on Mon Sep 21, 1992 8:52:53 pm

Instrument: TRACOR540#8HALL Employee #746
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_383.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.77	5.76	714	8654	BV	.61	DICHLORODIFLUOROMETHANE
2	6.38	6.35	48	900	VV	.07	CHLOROMETHANE
3	6.71	6.64	44	478	VV	.03	VINYL CHLORIDE
4	8.32	8.26	178	1975	BV	.14	CHLOROETHANE
5	8.85	8.86	88	1414	VV	.04	TRICHLOROFLUOROMETHANE
9	10.88	#10.88	91	1954	VV	.07	1,1-DICHLOROETHENE
11	12.87	#12.82	754	11623	BV	~~.14~~	METHYLENE CHLORIDE <.3 DCM/202 9/23/27
12	13.72	#13.65	219	2134	VV	.08	TRANS-1,2-DICHLOROETHENE
13	15.34	#15.31	6859	73115	VV	2.17	1,1-DICHLOROETHANE
16	17.41	#17.41	77090	620615	VV	16.29	CIS-1,2-DICHLOROETHENE
17	19.07	#19.05	5230	59783	VV	1.73	1,1,1-TRICHLOROETHANE
19	19.73	#19.76	278	2432	VV	.11	CARBON TETRACHLORIDE
22	20.71	#20.70	2865	26654	VV	.85	1,2-DICHLOROETHANE
24	22.45	#22.45	126953	927003	VV	25.86	TRICHLOROETHENE
25	24.04	#23.98	58	791	VV	.02	BROMODICHLOROMETHANE
[illegible]	28.13	#28.01	25	377	VV	.01	1,1,2-TRICHLOROETHANE
28	28.60	#28.58	123	1551	PB	.04	TETRACHLOROETHENE
29	31.70	#31.63	38	596	BV	.01	1,1,1,2-TETRACHLOROETHANE
30	32.21	#32.22	26805	198919	PV	95.75	SURR-1CL2FBENZENE
31	35.43	#35.36	41	596	PV	.01	1,1,2,2-TETRACHLOROETHANE
32	35.92	#35.83	39	559	VV	.02	1,2,3-TRICHLOROPROPANE
33	39.47	#39.44	307	2744	PB	.11	P-DICHLOROBENZENE
34	40.73	#40.66	23	244	BV	.01	O-DICHLOROBENZENE
36	45.60	45.58	18	237	PV	.01	1,2,4-TRICHLOROBENZENE
37	45.95	45.96	82	851	VV	.02	HEXACHLOROBUTADIENE
39	46.96	46.92	32	500	VV	.01	1,2,3-TRICHLOROBENZENE

Reported on Mon Sep 21, 1992 9:42:50 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: 1868474
Resultfile: /CAP/RESULT/P08_265_383.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PHD

Sample Name: 1868474
Batch # 92265/A08 Injected on Mon Sep 21, 1992 8:52:53 pm

Instrument: TRACOR540#8PID Employee #746
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_383.RES
Me dfile: /CAP/METHOD/P08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

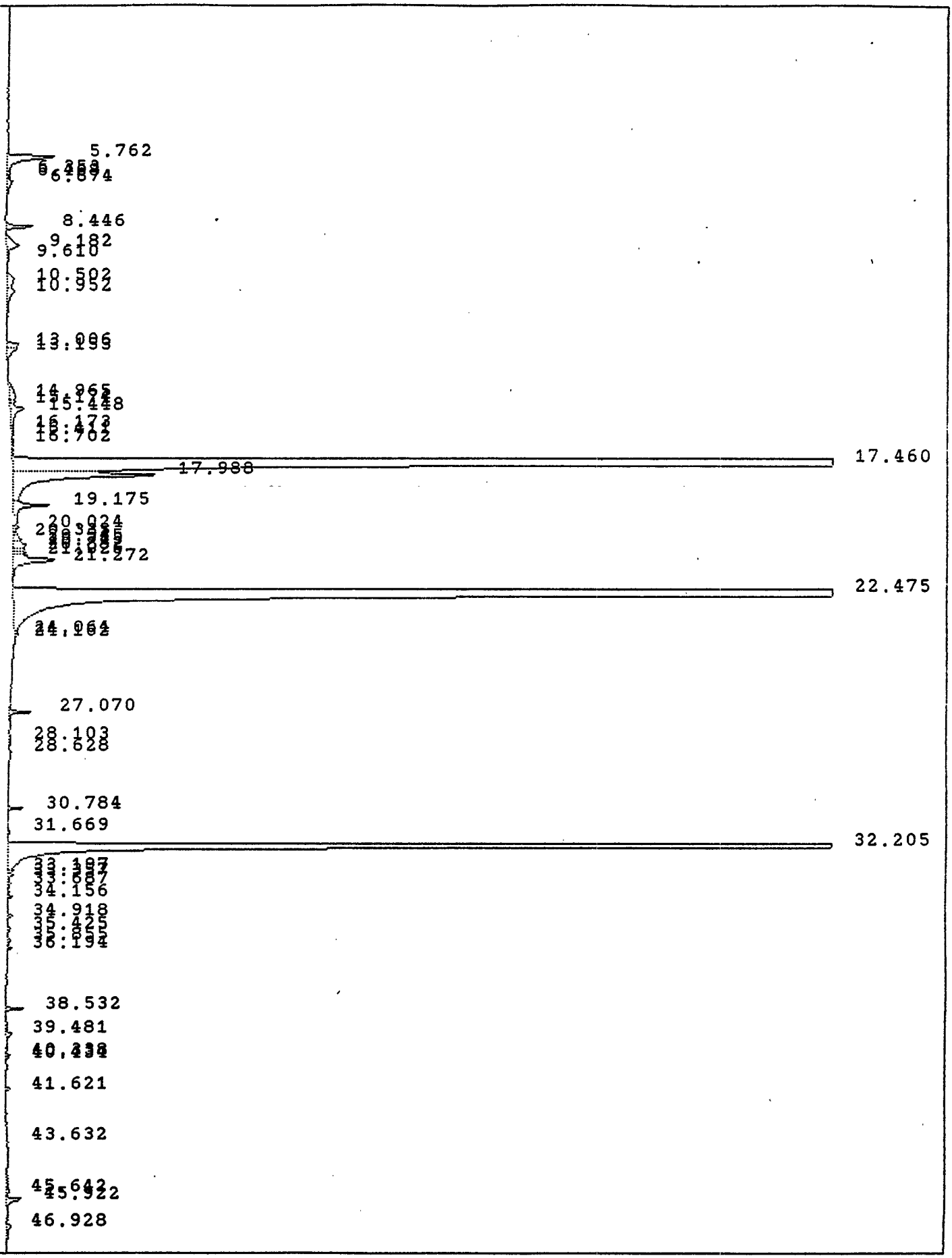
Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	17.37	#17.39	2488	14656	BV	21.88	CIS-1,2-DICHLOROETHENE
3	21.26	#21.26	1902	11810	BV	89.94	SURR-FBENZENE
4	22.41	#22.41	4327	24868	BV	29.94	TRICHLOROETHENE
6	26.58	#26.58	142	940	VV	.50	TOLUENE
7	31.79	#31.82	44	265	BB	.15	M-XYLENE
8	32.16	#32.18	4623	23784	BB		ISTD-1CL2FBENZENE
9	39.39	#39.40	66	330	BB	.27	P-DICHLOROBENZENE

Internal Standard Range: 3742 - 5613 (Midpoint - 4677)

Using check standard file. /CAP/RESULT/P08_265_381.RES
Reported on Mon Sep 21, 1992 9:51:15 pm
Rer t Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: 1868477
Resultfile: /CAP/RESULT/H08_265_389.RES
Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

Sample Name: 1868477
Batch # 92265/A08 Injected on Tue Sep 22, 1992 9:16:59 am

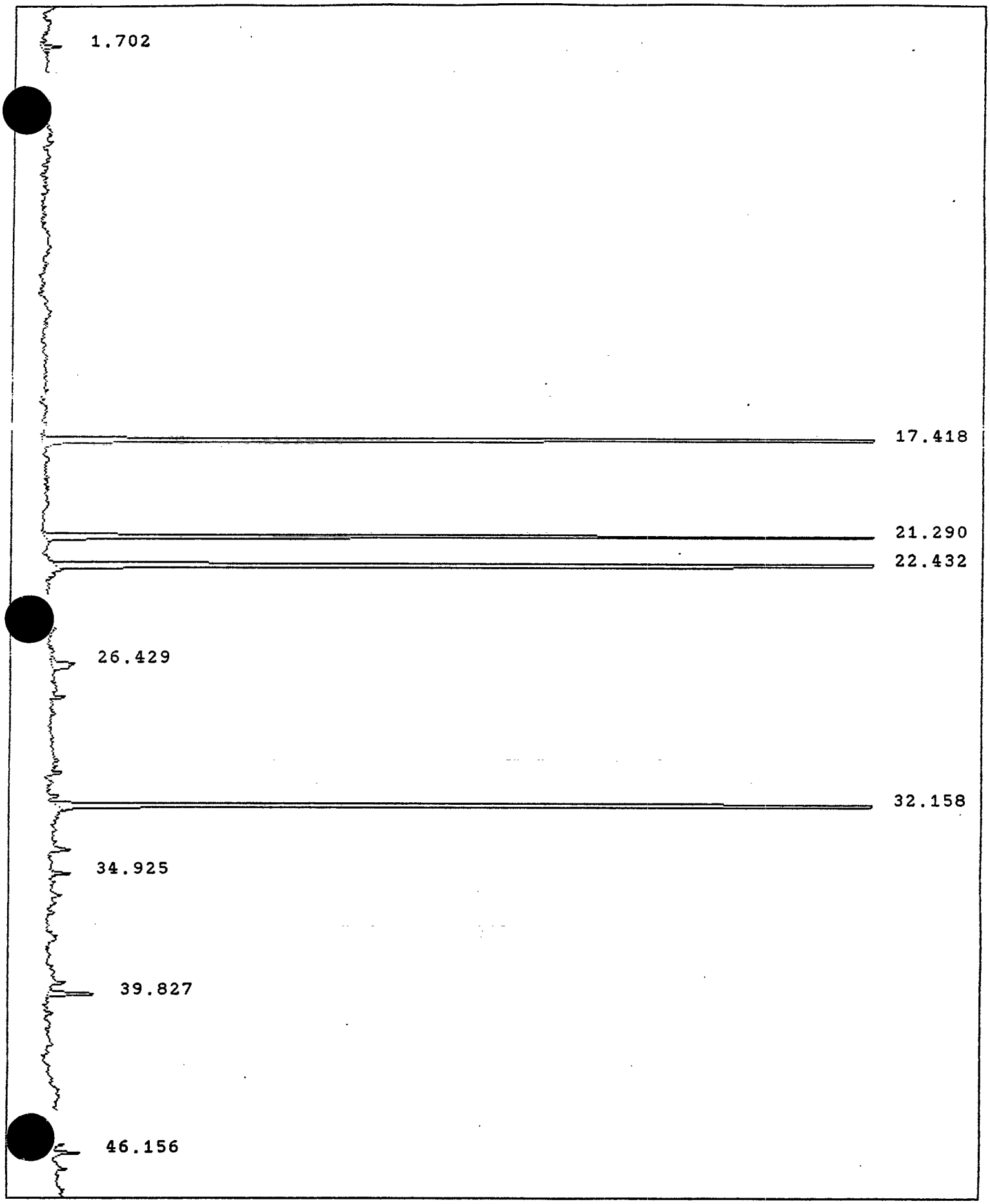
Instrument: TRACOR540#8HALL Employee #439
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_389.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 47.98
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 20.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.76	5.78	536	6406	VV	9.20	DICHLORODIFLUOROMETHANE
2	6.35	6.41	32	256	VV	.95	CHLOROMETHANE
4	6.67	6.67	55	974	VB	.63	VINYL CHLORIDE
9	10.95	#10.93	79	1763	VV	1.15	1,1-DICHLOROETHENE
10	13.01	#12.93	139	1477	BV	.50	METHYLENE CHLORIDE
14	15.45	#15.42	161	3399	VV	1.16	1,1-DICHLOROETHANE
18	17.46	#17.49	117272	833427	BV	502.83	CIS-1,2-DICHLOROETHENE
19	17.99	#18.00	1634	26856	VV	4.66	CHLOROFORM
20	19.18	#19.12	458	4579	VV	2.66	1,1,1-TRICHLOROETHANE
24	20.72	#20.74	185	1935	VV	.87	1,2-DICHLOROETHANE
28	22.47	#22.49	161025	1159120	PV	667.96	TRICHLOROETHENE
29	24.06	#23.99	50	240	VV	.34	BROMODICHLOROMETHANE
32	28.10	#27.99	19	248	BB	.10	1,1,2-TRICHLOROETHANE
33	28.63	#28.57	20	176	BV	.11	TETRACHLOROETHENE
35	31.67	#31.62	21	345	PV	.09	1,1,1,2-TETRACHLOROETHANE
36	32.20	#32.22	25675	185857	PV	~~1834.19~~	SURR-1CL2FBENZENE 92
42	35.42	#35.36	29	367	BV	.21	1,1,2,2-TETRACHLOROETHANE
43	35.86	#35.82	44	451	VV	.35	1,2,3-TRICHLOROPROPANE
44	36.19	#36.37	62	266	VB	~~1.18~~	O-CHLOROTOLUENE no 24 OFF DEW/MW 9/23/92
46	39.48	#39.43	61	750	VB	.43	P-DICHLOROBENZENE
48	40.43	#40.66	41	185	VV	.37	O-DICHLOROBENZENE
52	45.92	45.90	186	1509	VV	.73	HEXACHLOROBUTADIENE
53	46.93	46.87	47	654	VV	.27	1,2,3-TRICHLOROBENZENE

Reported on Tue Sep 22, 1992 10:06:54 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT

JLB 439
9-22-92



SAMPLE NAME: 1868477
Resultfile: /CAP/RESULT/P08_265_389.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

Sample Name: 1868477
Batch # 92265/A08 Injected on Tue Sep 22, 1992 9:16:59 am

Instrument: TRACOR540#8PID Employee #439
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_389.RES
Methodfile: /CAP/METHOD/P08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 47.98
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 20.00

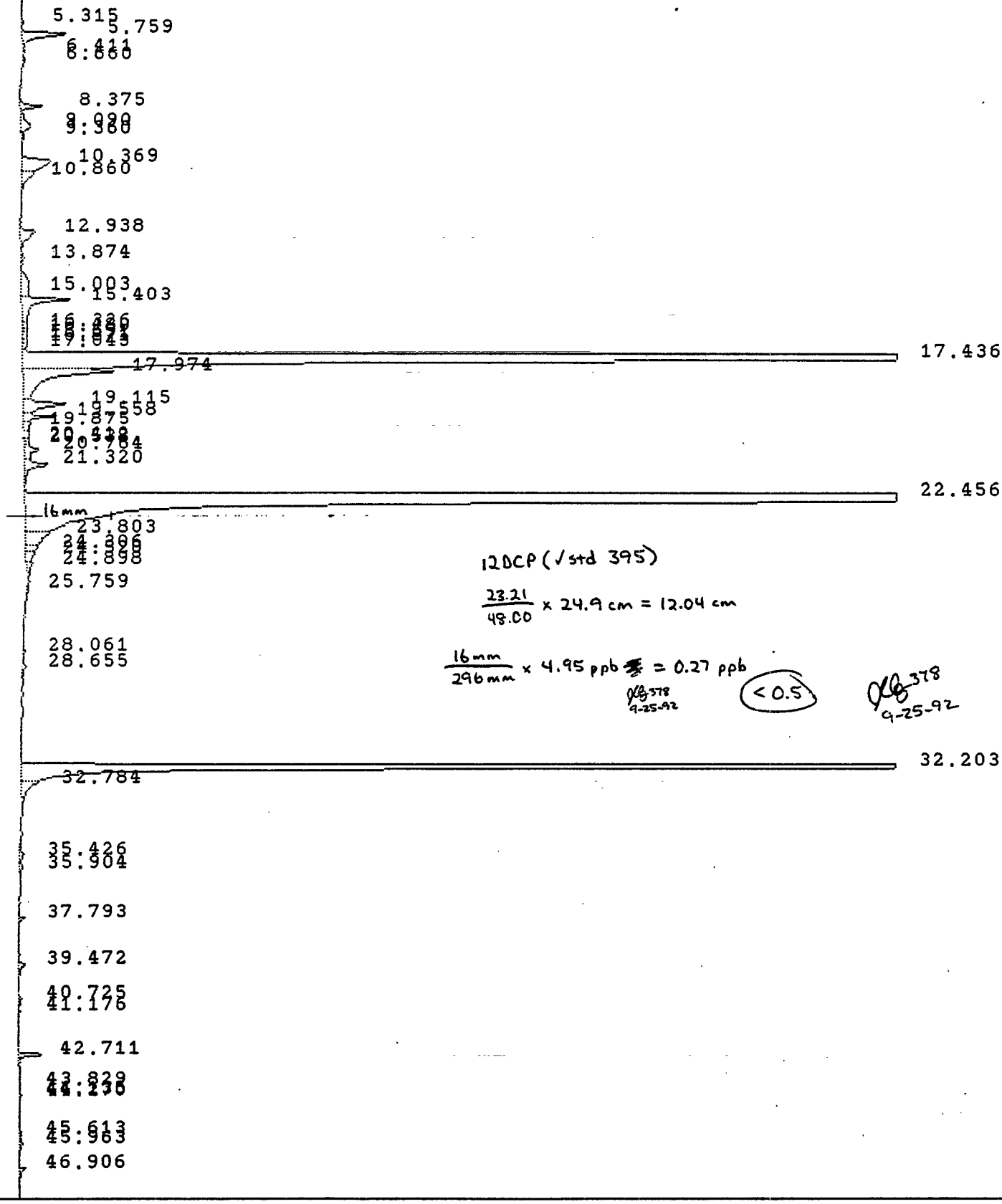
Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	17.42	#17.44	3051	18807	BV	552.30	CIS-1,2-DICHLOROETHENE
3	21.29	#21.29	1795	11157	PV	~~1759.50~~	SURR-FBENZENE 88
4	22.43	#22.44	5498	30645	BV	799.51	TRICHLOROETHENE
5	26.43	#26.59	48	702	VV	3.51	TOLUENE
6	32.16	#32.26	4460	22792	BB		ISTD-1CL2FBENZENE

Internal Standard Range: 3742 - 5613 (Midpoint - 4677)

JLB 439
9-22-92

Using check standard file. /CAP/RESULT/P08_265_381.RES
Reported on Tue Sep 22, 1992 10:08:59 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



12DCP (√std 395)

$\frac{23.21}{48.00} \times 24.9\ cm = 12.04\ cm$

$\frac{16\ mm}{296\ mm} \times 4.95\ ppb = 0.27\ ppb$

KB 378 9-25-92

<0.5

KB 378 9-25-92

SAMPLE NAME: 1868478
Resultfile: /CAP/RESULT/H08_265_396.RES
Plot Fields: 500 - 3000 Instrument - TRACOR540HALL

AR303537

Sample Name: 1868478
Batch # 92265/A08 Injected on Tue Sep 22, 1992 7:42:27 pm

Instrument: TRACOR540#8HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_396.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

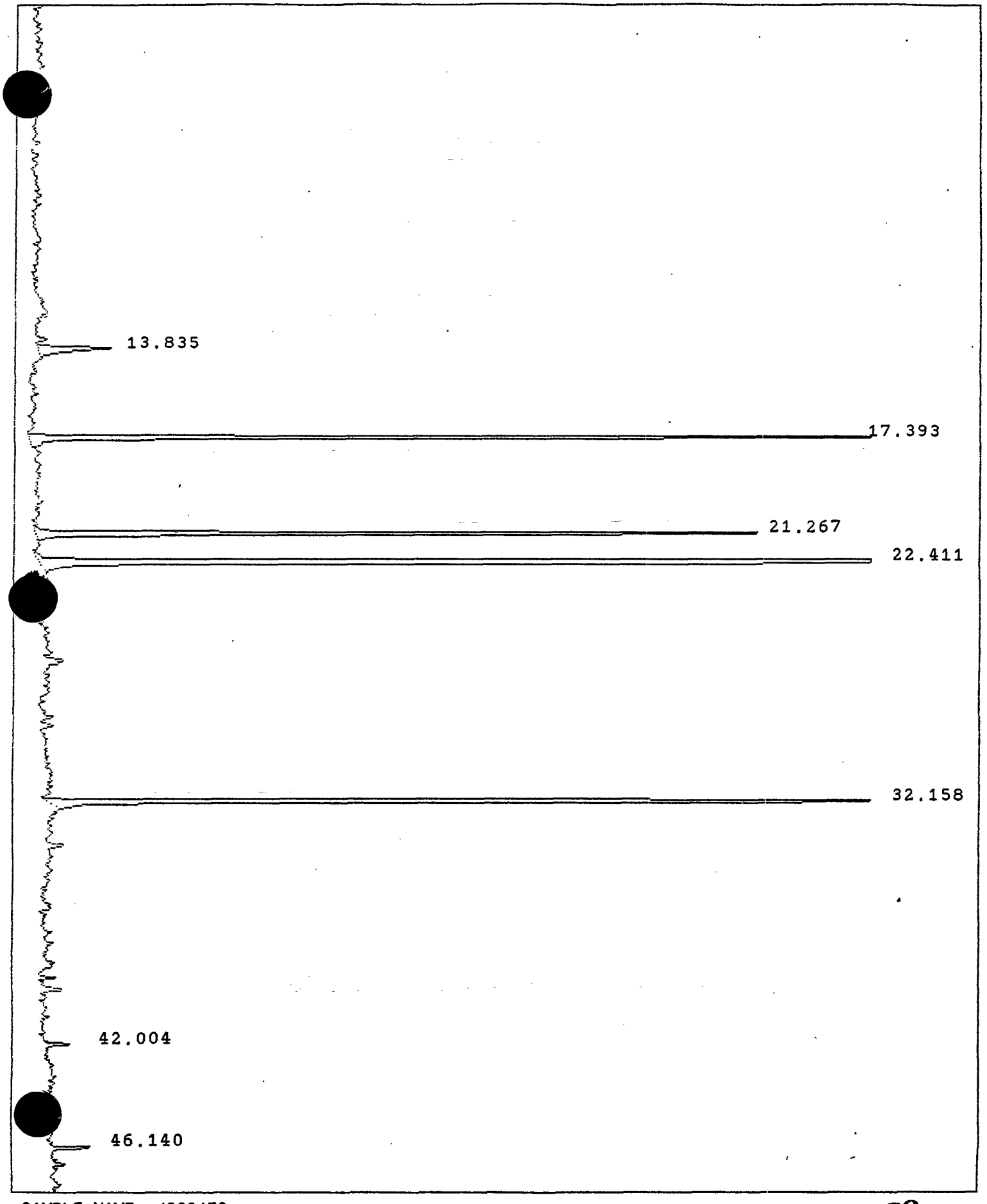
Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	5.76	5.81	469	5654	PV	.40	DICHLORODIFLUOROMETHANE
3	6.41	6.44	17	137	VB	.03	CHLOROMETHANE
4	6.66	6.70	28	255	BB	.02	VINYL CHLORIDE
5	8.37	8.35	253	2068	PV	.20	CHLOROETHANE
10	12.94	#12.98	176	3154	BV	.03	METHYLENE CHLORIDE
11	13.87	#13.81	30	448	VV	.01	TRANS-1,2-DICHLOROETHENE
13	15.40	#15.46	546	7925	VV	.20	1,1-DICHLOROETHANE
19	17.44	#17.52	80104	609308	VV	16.96	CIS-1,2-DICHLOROETHENE
20	17.97	#18.02	994	19310	VV	.14	CHLOROFORM
21	19.11	#19.14	473	6724	VV	.14	1,1,1-TRICHLOROETHANE
23	19.87	#19.84	81	1272	VV	.03	CARBON TETRACHLORIDE
26	20.76	#20.75	164	2883	VV	.04	1,2-DICHLOROETHANE
28	22.46	#22.49	338943	2661046	PV	72.78	TRICHLOROETHENE
33	25.76	#25.86	30	265	VV	.01	CIS-1,3-DICHLOROPROPENE
34	28.06	#27.99	21	305	VV	.01	1,1,2-TRICHLOROETHANE
[illegible]	28.66	#28.56	39	391	PV	.01	TETRACHLOROETHENE
3[illegible]	32.20	#32.21	24331	186577	PV	86.91	SURR-1CL2FBENZENE
38	35.43	#35.34	44	792	VV	.02	1,1,2,2-TETRACHLOROETHANE
39	35.90	#35.80	33	506	VV	.01	1,2,3-TRICHLOROPROPANE
41	39.47	#39.41	62	896	PV	.02	P-DICHLOROBENZENE
42	40.73	#40.63	25	324	BV	.01	O-DICHLOROBENZENE
48	45.61	45.54	23	265	PV	.01	1,2,4-TRICHLOROBENZENE
49	45.96	45.90	29	436	VV	.01	HEXACHLOROBUTADIENE
50	46.91	46.87	63	629	PV	.02	1,2,3-TRICHLOROBENZENE

Reported on Tue Sep 22, 1992 8:32:33 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT

TCE taken from DF5 (# 398)

[illegible] 378
9-25-92



SAMPLE NAME: 1868478
Resultfile: /CAP/RESULT/P08_265_396.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

Sample Name: 1868478
Batch # 92265/A08 Injected on Tue Sep 22, 1992 7:42:27 pm

Instrument: TRACOR540#8PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Re Itfile: /CAP/RESULT/P08_265_396.RES
Me odfile: /CAP/METHOD/P08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

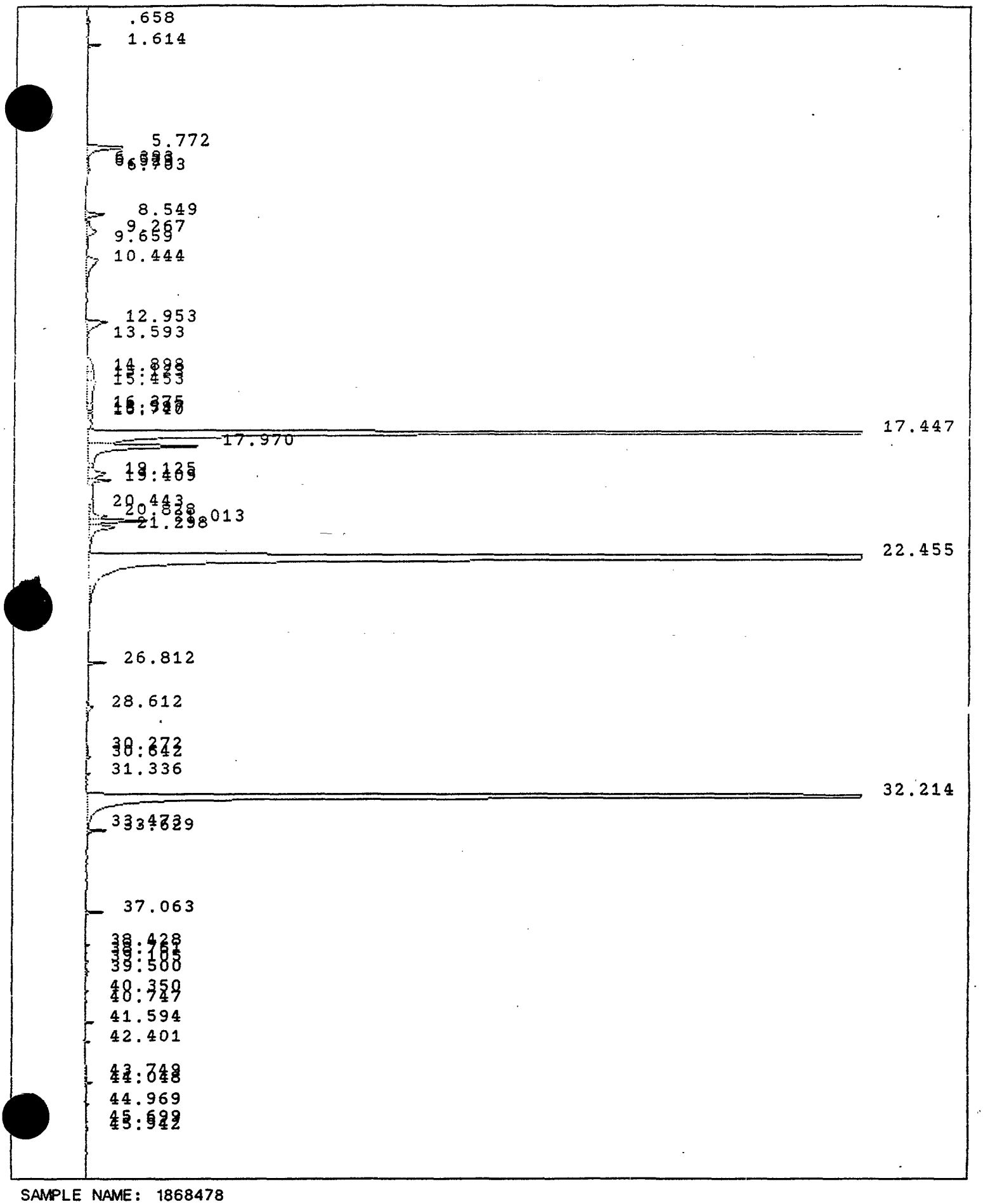
Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	13.83	#13.75	145	1856	PV	.83	TRANS-1,2-DICHLOROETHENE
2	17.39	#17.47	1873	11884	BV	18.84	CIS-1,2-DICHLOROETHENE
3	21.27	#21.30	1614	10136	PV	86.84	SURR-FBENZENE
4	22.41	#22.45	12078	71628	PV	98.86	TRICHLOROETHENE
5	32.16	#32.17	4063	21105	BB		ISTD-1CL2FBENZENE

Internal Standard Range: 3742 - 5613 (Midpoint - 4677)

Using check standard file. /CAP/RESULT/P08_265_381.RES
Reported on Tue Sep 22, 1992 8:34:44 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: 1868478
Resultfile: /CAP/RESULT/H08_265_398.RES
Plot Fields: 500 - 3000 Instrument - TRACOR 540 PORTABLE

AR000541

132

Sample Name: 1868478
Batch # 92265/A08 Injected on Tue Sep 22, 1992 9:51:03 pm

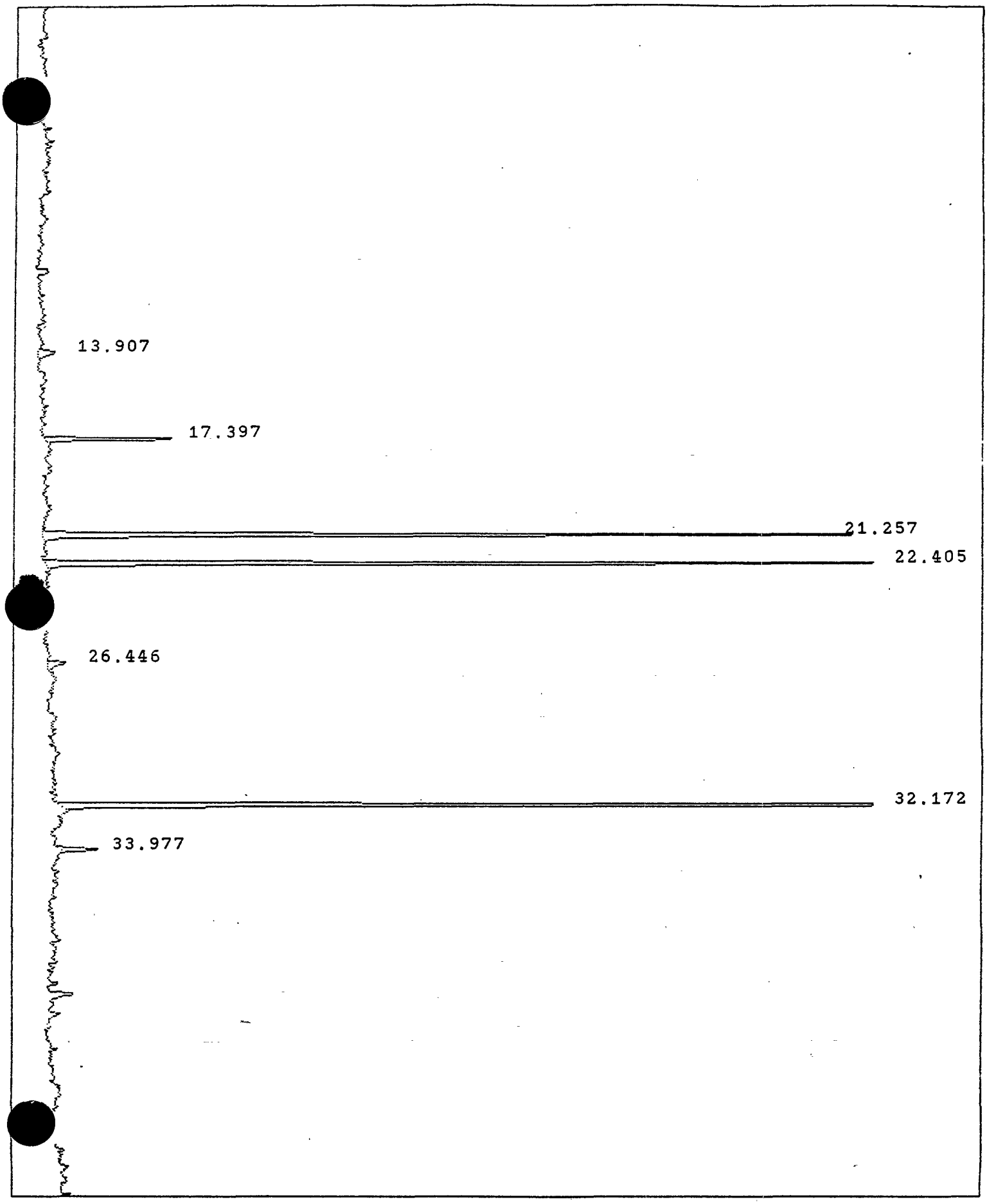
Instrument: TRACOR540#8HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_398.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 5.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
3	5.77	5.78	470	5576	PV	2.02	DICHLORODIFLUOROMETHANE
4	6.39	6.41	17	120	VV	.13	CHLOROMETHANE
6	6.70	6.67	43	439	VV	.12	VINYL CHLORIDE
11	12.95	#12.91	253	3906	BV	.23	METHYLENE CHLORIDE
15	15.45	#15.39	109	4123	VV	.20	1,1-DICHLOROETHANE
19	17.45	#17.47	11642	102047	VV	14.20	CIS-1,2-DICHLOROETHENE
20	17.97	#17.98	1361	17285	VV	.97	CHLOROFORM
21	19.12	#19.10	205	2901	VV	.30	1,1,1-TRICHLOROETHANE
24	20.83	#20.73	341	2324	VV	.40	1,2-DICHLOROETHANE
27	22.45	#22.48	80240	595746	VV	77.59	TRICHLOROETHENE
29	28.61	#28.55	69	793	BV	.10	TETRACHLOROETHENE
30	30.27	#30.13	18	333	PV	.33	ETHYLENE DIBROMIDE
32	31.34	#31.40	50	199	VV	.18	CHLOROBENZENE
33	32.21	#32.20	26490	189306	BV	~~473.~~ 10	SURR-1CL2FBENZENE 95
3[illegible]	39.11	#39.01	60	350	PV	LAS 330 9-29-92 17	M-DICHLOROBENZENE
[illegible]	39.50	#39.43	33	664	VV	.06	P-DICHLOROBENZENE
42	40.75	#40.64	17	171	PV	.04	O-DICHLOROBENZENE
49	45.94	45.90	23	228	VV	.02	HEXACHLOROBUTADIENE

Reported on Tue Sep 22, 1992 10:40:49 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT

BW 330 9-22-92



SAMPLE NAME: 1868478
Resultfile: /CAP/RESULT/P08_265_398.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303543

Sample Name: 1868478
Batch # 92265/A08 Injected on Tue Sep 22, 1992 9:51:03 pm

Instrument: TRACOR540#8PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Re Itfile: /CAP/RESULT/P08_265_398.RES
Me...odfile: /CAP/METHOD/P08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

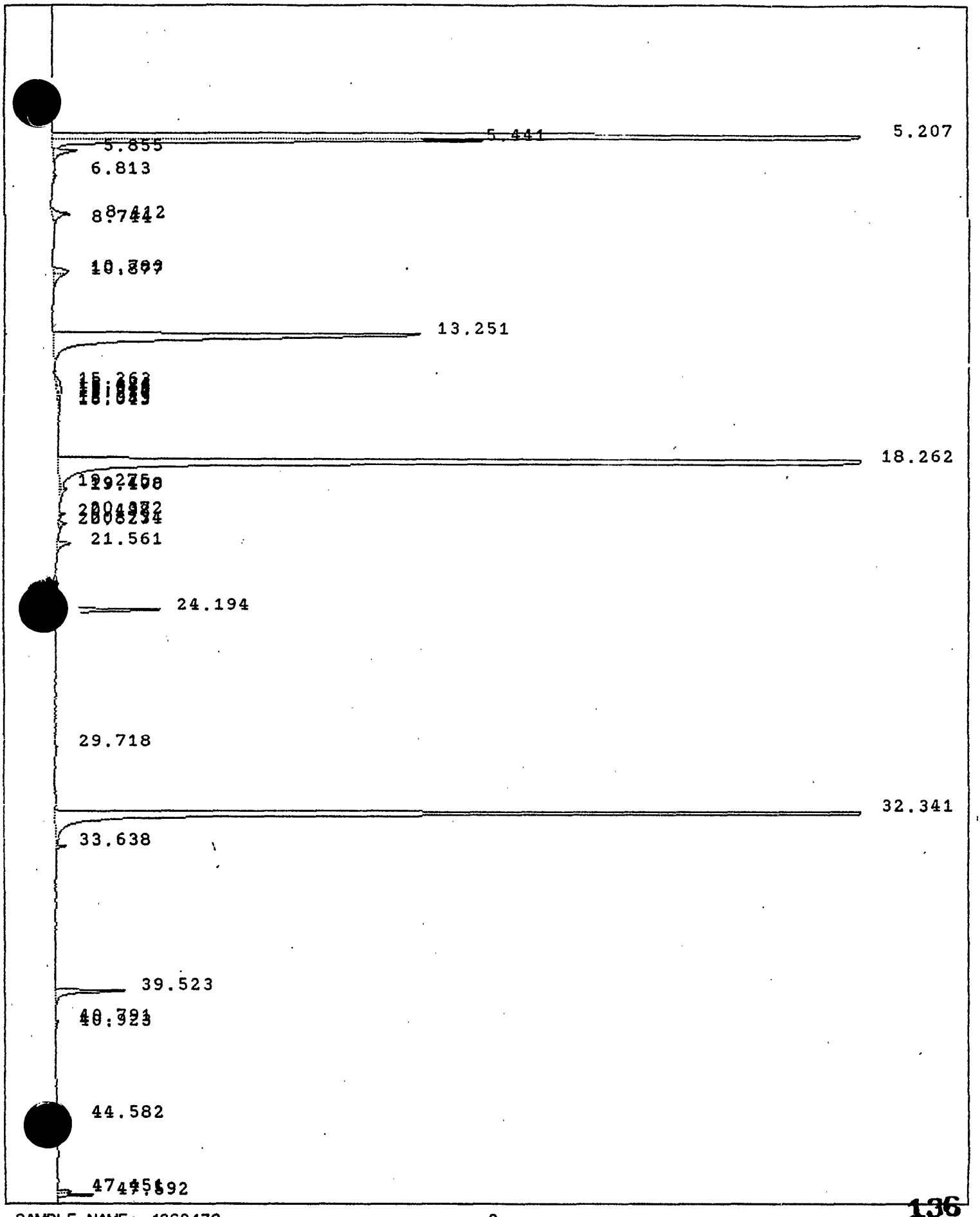
Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 5.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	17.40	#17.47	296	1884	PV	16.13	CIS-1,2-DICHLOROETHENE
3	21.26	#21.30	1669	10391	PV	~~441.78~~	SURR-FBENZENE 88
4	22.41	#22.45	2091	12004	PV	77.01	TRICHLOROETHENE
5	26.45	#26.59	35	439	BB	.70	TOLUENE
6	32.17	#32.17	4129	21105	BB		ISTD-1CL2FBENZENE

Internal Standard Range: 3742 - 5613 (Midpoint - 4677)

Using check standard file. /CAP/RESULT/P08_265_381.RES
Reported on Tue Sep 22, 1992 10:42:58 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: 1868479 8

Resultfile: /CAP/RESULT/H08_265_409.RES

Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

AR303545

136

Sample Name: 1868479 8
Batch # 92265/A08 Injected on Wed Sep 23, 1992 2:41:53 pm

Instrument: TRACOR540#8HALL Employee #439
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_409.RES
Methodfile: /CAP/METHOD/H08_265NSS.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

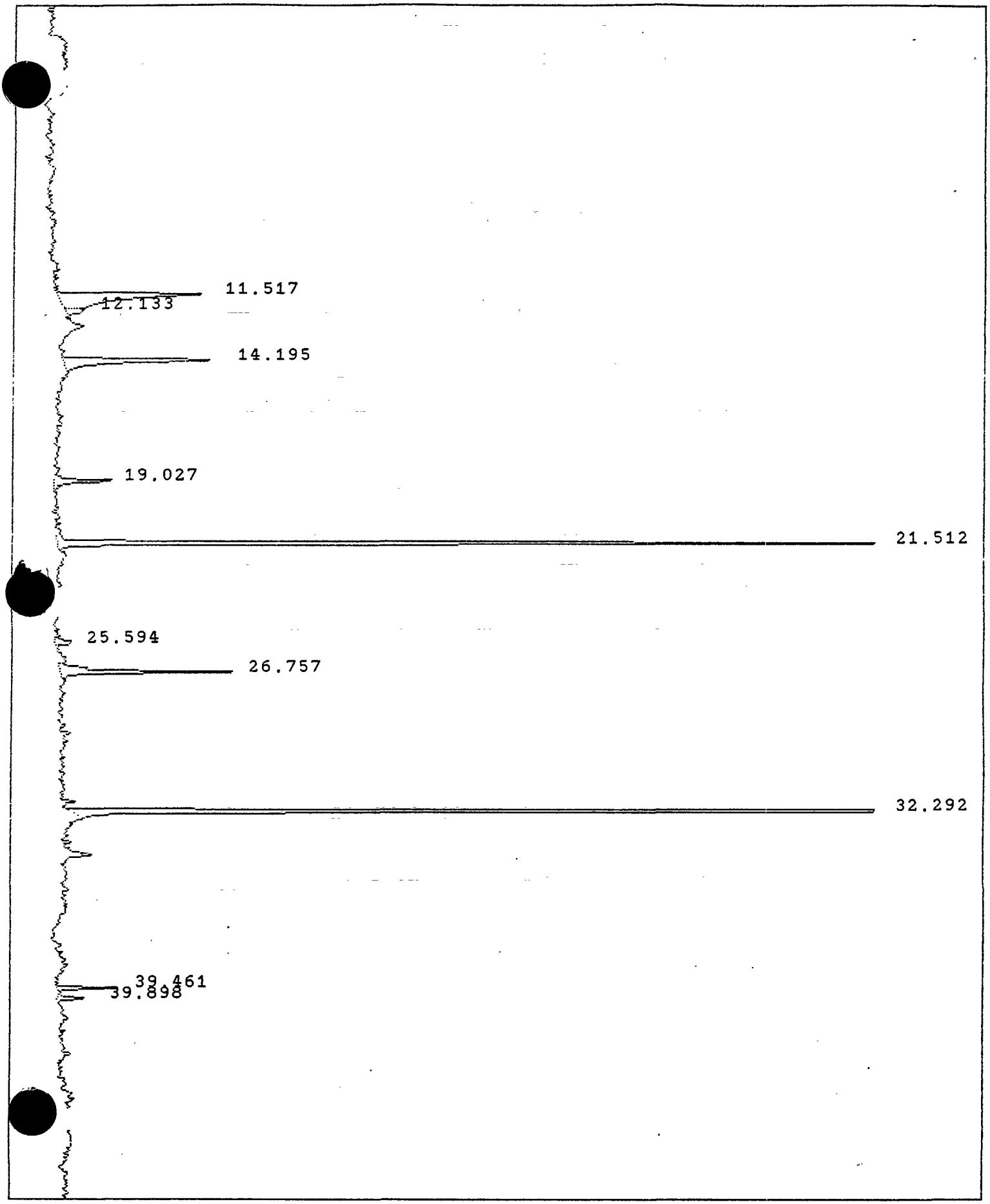
Re.an: upd.

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
3	5.86	5.86	291	3491	VV	.25	DICHLORODIFLUOROMETHANE
4	6.81	6.81	33	361	BV	.02	VINYL CHLORIDE
8	10.88	#10.97	155	1848	VV	.11	1,1-DICHLOROETHENE
9	13.25	#13.32	4801	70129	BV	~~1.14~~	METHYLENE CHLORIDE 1.6 ppm
13	15.64	#15.76	48	178	VV	.02	1,1-DICHLOROETHANE
17	18.26	#18.30	29333	255771	PV	5.36	CHLOROFORM
20	19.47	#19.40	85	829	VV	.02	1,1,1-TRICHLOROETHANE
23	20.73	#20.82	146	552	VV	.03	1,2-DICHLOROETHANE
26	24.19	#24.18	1294	11116	PV	.44	BROMODICHLOROMETHANE
27	29.72	#29.61	20	153	BV	.01	DIBROMOCHLOROMETHANE
28	32.34	#32.31	20473	150028	PV	77.97	SURR-1CL2FBENZENE
30	39.52	#39.52	869	7657	VV	.31	P-DICHLOROBENZENE
31	40.79	#40.79	33	254	PV	.01	O-DICHLOROBENZENE

RLB439
9-30-92

Reported on Wed Sep 30, 1992 11:45:15 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: 1868479

Resultfile: /CAP/RESULT/P08_265_409.RES

Sample Name: 1868479 8
Batch # 92265/A08 Injected on Wed Sep 23, 1992 2:41:53 pm

Instrument: TRACOR540#8PID Employee #439
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_409.RES
Methodfile: /CAP/METHOD/P08_265KLB.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

ll-an: upd. sum + cold
KLB 439
9-25-92

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

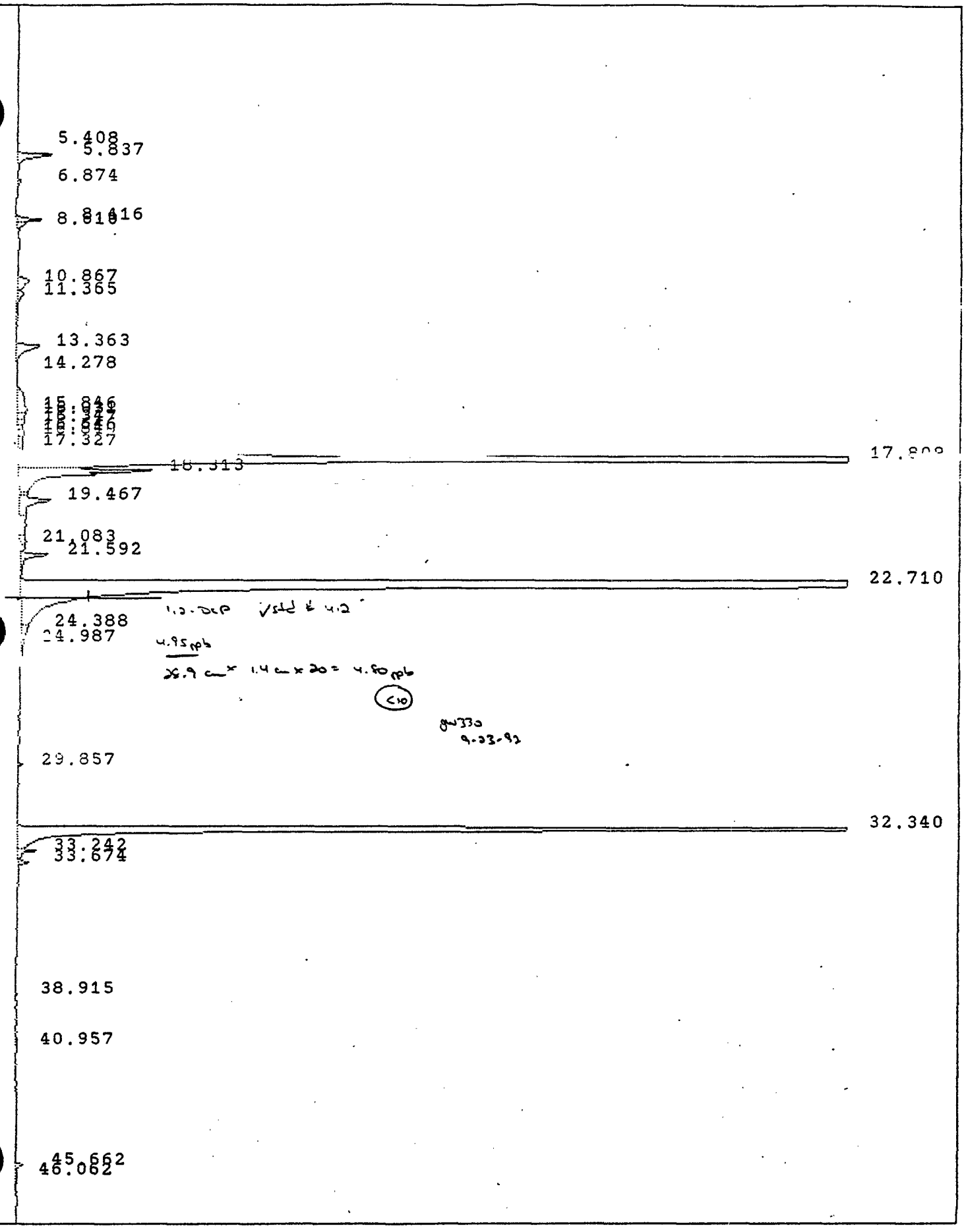
Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
5	21.51	#21.52	2175	13583	BV	116.15	SURR-FBENZENE
7	26.76	#26.75	347	2729	VV	1.54	TOLUENE
8	32.29	#32.28	3394	17983	BB		ISTD-1CL2FBENZENE
9	39.46	#39.45	128	694	PB	.68	P-DICHLOROBENZENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

Using check standard file. /CAP/RESULT/P08_265_412.RES
Reported on Fri Sep 25, 1992 4:21:08 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT

AR303548



SAMPLE NAME: 1868480
Resultfile: /CAP/RESULT/H08_265_414.RES
Plot Fields: 500 - 3000 Instrument - TRACOR 540 #3 HAL

AR303549

Sample Name: 1868480
Batch # 92265/A08 Injected on Wed Sep 23, 1992 9:14:01 pm

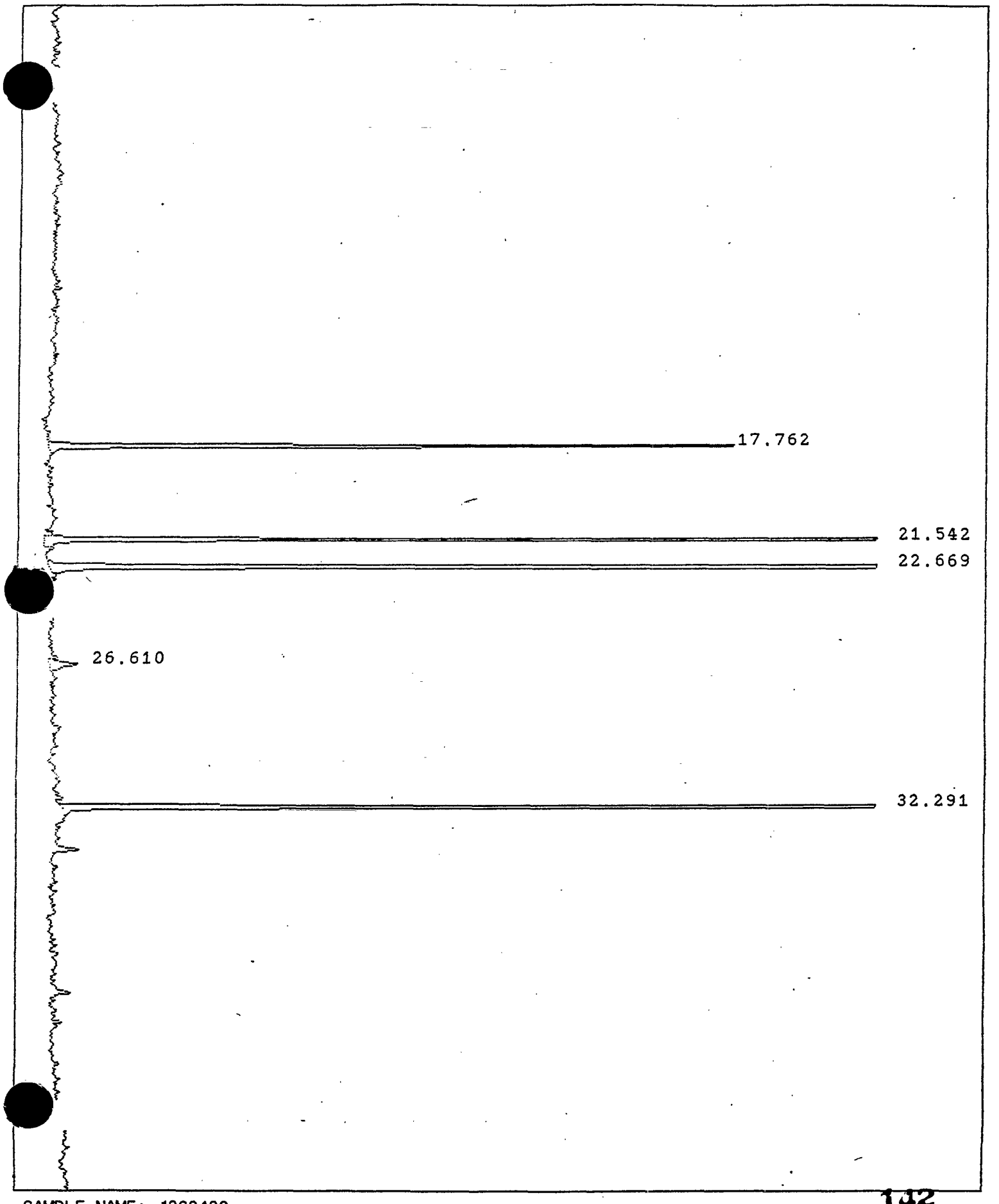
Instrument: TRACOR540#8HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
F ilfile: /CAP/RESULT/H08_265_414.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 20.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	5.84	5.85	416	4988	PV	7.13	DICHLORODIFLUOROMETHANE
3	6.87	6.79	42	531	VB	.48	VINYL CHLORIDE
4	8.42	8.50	324	2119	BV	5.03	CHLOROETHANE
7	11.37	#11.28	81	1578	VB	1.18	1,1-DICHLOROETHENE
8	13.36	#13.31	285	4599	BV	1.03	METHYLENE CHLORIDE
10	15.85	#15.76	112	4292	BV	.80	1,1-DICHLOROETHANE
16	17.81	#17.79	53872	425151	VV	223.62	CIS-1,2-DICHLOROETHENE
17	18.31	#18.29	1592	26817	VV	4.54	CHLOROFORM
18	19.47	#19.40	362	6908	VV	2.10	1,1,1-TRICHLOROETHANE
19	21.08	#20.99	71	1067	VV	.33	1,2-DICHLOROETHANE
21	22.71	#22.70	204578	1535035	VV	860.74	TRICHLOROETHENE
25	32.34	#32.32	24425	189125	PV	~~1744.92~~	SURR-1CL2FBENZENE 87
28	38.92	#39.08	18	117	PV	.20	M-DICHLOROBENZENE
29	40.96	#40.71	13	248	PV	.12	O-DICHLOROBENZENE

Reported on Wed Sep 23, 1992 10:04:14 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT

330 9-23-92



SAMPLE NAME: 1868480

Resultfile: /CAP/RESULT/P08_265_414.RES

Plot Fields: 6.910 - 73.10 Instrument - TRACOR540#8P10

AR303551

Sample Name: 1868480
Batch # 92265/A08 Injected on Wed Sep 23, 1992 9:14:01 pm

Instrument: TRACOR540#8PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_414.RES
Methodfile: /CAP/METHOD/P08_265NSSI.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAB v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 20.00

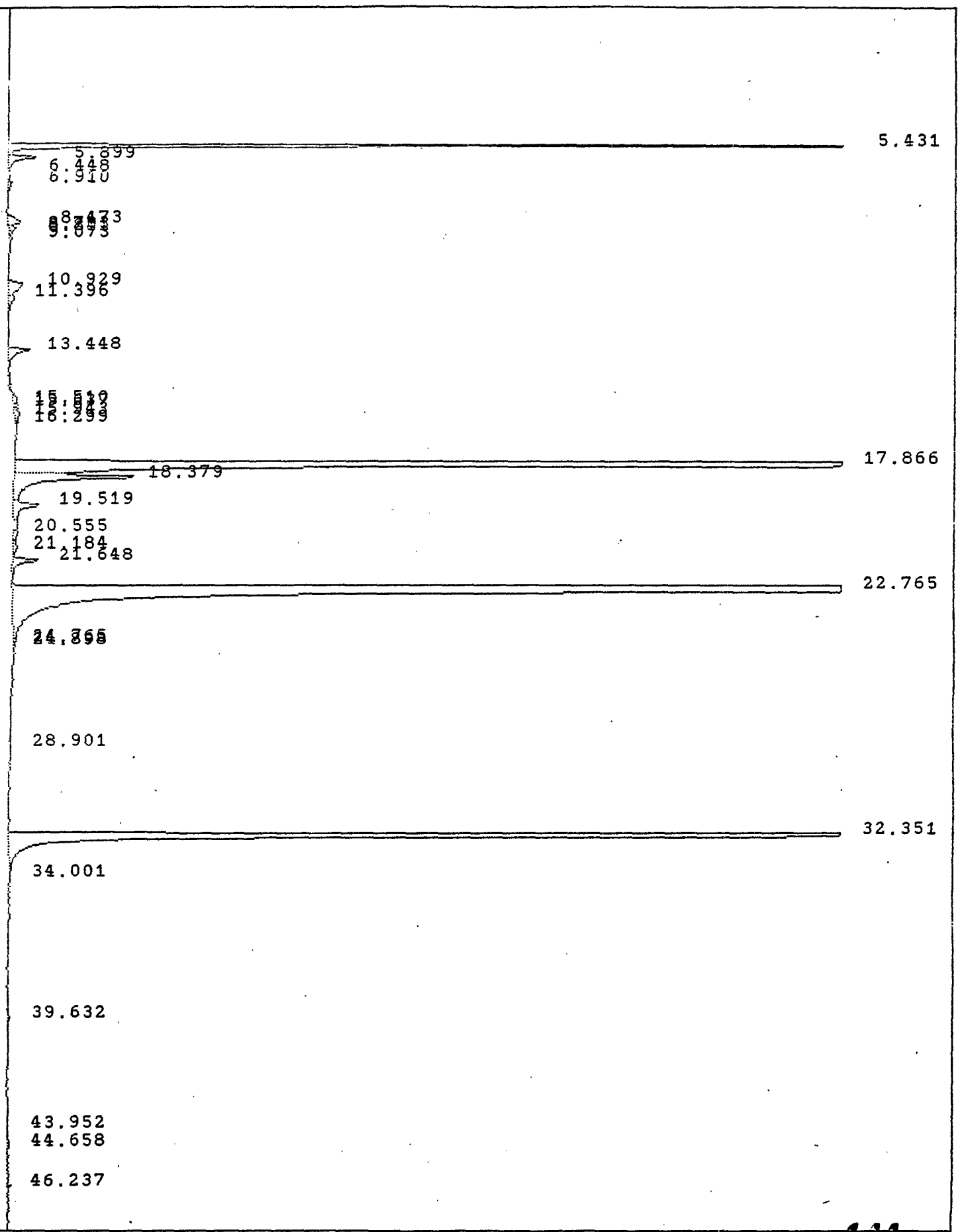
Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	17.76	#17.76	1396	8576	PV	292.13	CIS-1,2-DICHLOROETHENE
2	21.54	#21.53	2371	14600	VV	~~2174.73~~	SURR-FBENZENE 109
3	22.67	#22.66	7162	40174	BV	1191.97	TRICHLOROETHENE
4	26.61	#26.74	58	725	VV	4.81	TOLUENE
5	32.29	#32.27	3951	20383	BV		ISTD-1CL2FBENZENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

Using check standard file. /CAP/RESULT/P08_265_412.RES

Reported on Wed Sep 23, 1992 10:06:22 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



144

S NAME: 1868481
tfile: /CAP/RESULT/H08_265_416.RES
Fields: 500 - 3000 Instrument - TRACOR540#8HALL

AR303553

Sample Name: 1868481
Batch # 92265/A08 Injected on Thu Sep 24, 1992 12:20:00 am

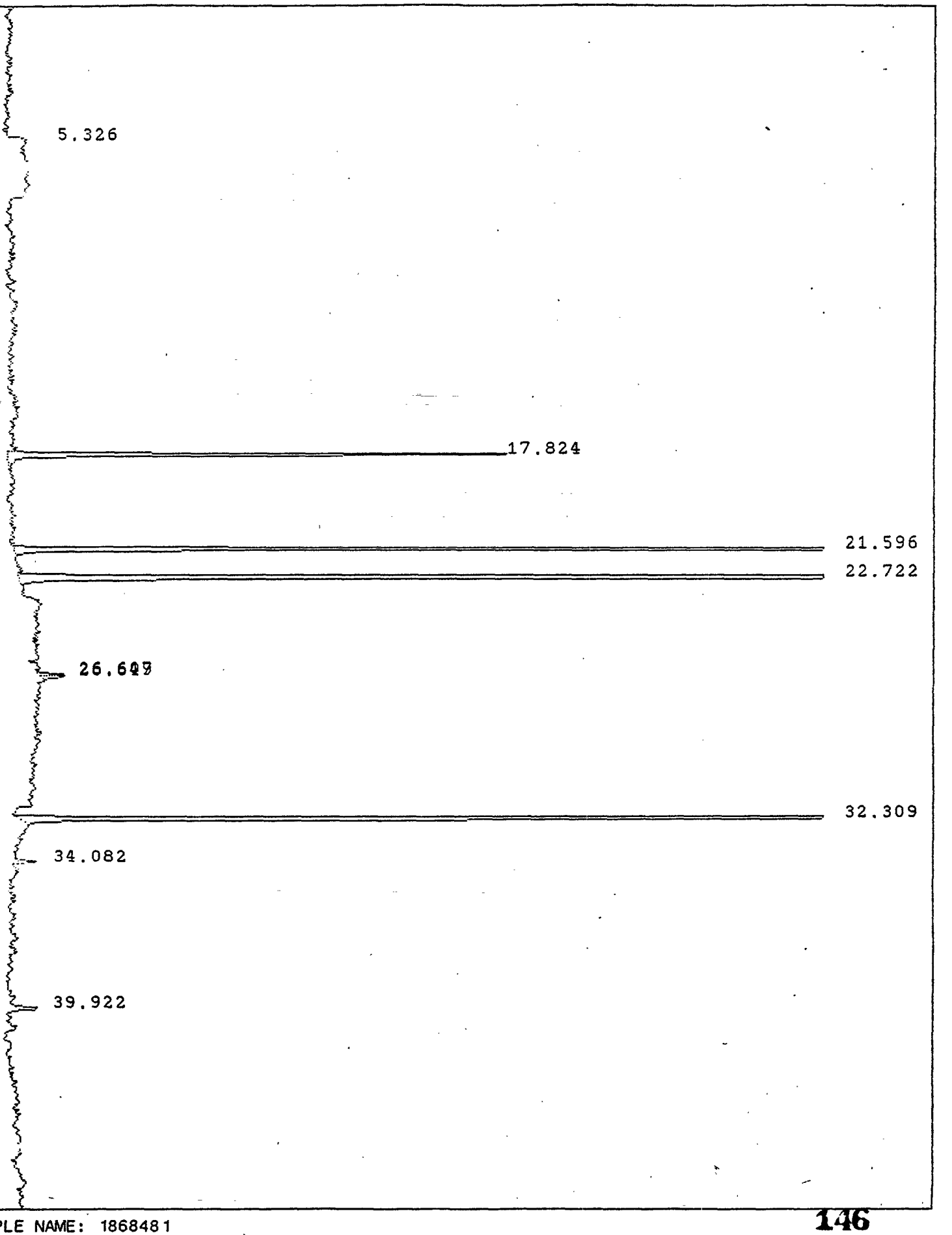
Instrument: TRACOR540#8HALL Employee #330
Ca' 'ilation: ExternalSTD Quantitation: HeightUnits
Re .tfile: /CAP/RESULT/H08_265_416.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 10.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	5.90	5.85	341	4151	VV	2.93	DICHLORODIFLUOROMETHANE
3	6.45	6.52	25	201	VV	.37	CHLOROMETHANE
5	8.47	8.50	159	2361	BV	1.23	CHLOROETHANE
13	15.64	#15.76	50	337	VV	.18	1,1-DICHLOROETHANE
16	17.87	#17.79	45194	340244	PV	93.77	CIS-1,2-DICHLOROETHENE
17	18.38	#18.29	1469	21167	VV	2.09	CHLOROFORM
18	19.52	#19.40	315	5253	VV	.92	1,1,1-TRICHLOROETHANE
22	22.76	#22.70	169823	1220028	PV	353.45	TRICHLOROETHENE
26	32.35	#32.32	25516	194959	BV	~~911.41~~	SURR-1CL2FBENZENE 91
28	39.63	#39.49	32	406	PV	.11	P-DICHLOROBENZENE

Reported on Thu Sep 24, 1992 1:13:02 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT

kb 439
9-24-92



SAMPLE NAME: 1868481
Resultfile: /CAP/RESULT/P08_265_416.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540HPYD

AR303555

Sample Name: 1868481
Batch # 92265/A08 Injected on Thu Sep 24, 1992 12:20:00 am

Instrument: TRACOR540#8PID Employee #330
C ulation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_416.RES
Methodfile: /CAP/METHOD/P08_265NSSI.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 10.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	17.82	#17.76	1047	6545	VV	115.57	CIS-1,2-DICHLOROETHENE
3	21.60	#21.53	2288	13989	BV	~~1093.13~~	SURR-FBENZENE 109
4	22.72	#22.66	5387	30345	VV	463.08	TRICHLOROETHENE
5	26.61	#26.74	57	261	PV	2.45	TOLUENE
7	32.31	#32.27	3794	19553	BB		ISTD-1CL2FBENZENE

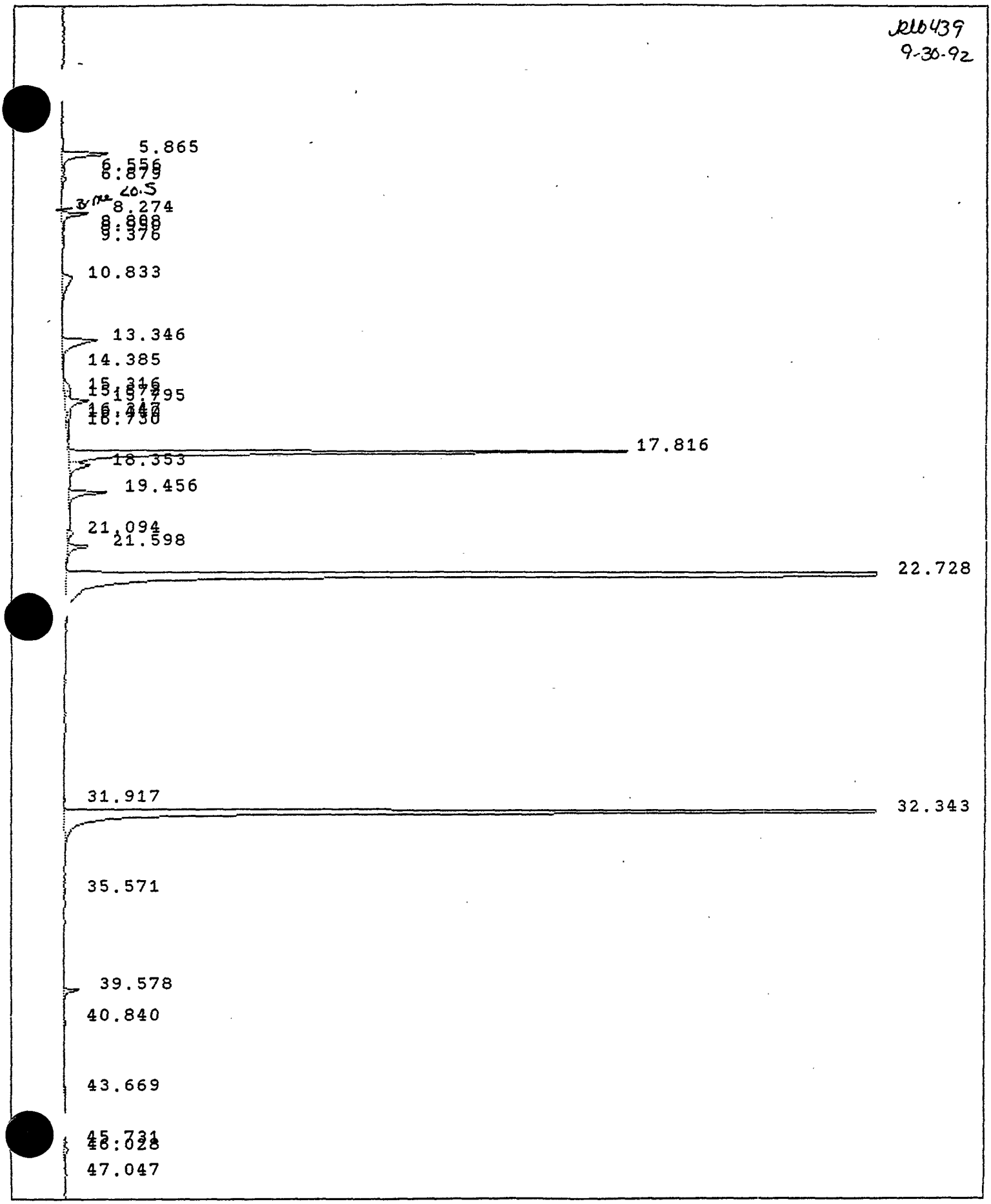
Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

JRB439
9.24.92

Using check standard file. /CAP/RESULT/P08_265_412.RES
Reported on Thu Sep 24, 1992 1:15:31 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT

Chkstd # 430

RLB439
9-30-92



SAMPLE NAME: 1868482
Resultfile: /CAP/RESULT/H08_265_429.RES
Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

AR303557

Sample Name: 1000402

Batch # 92265/A08 Injected on Thu Sep 24, 1992 5:52:51 pm

Instrument: TRACOR540#8HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_429.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
3	6.88	6.94	57	701	VB	.03	VINYL CHLORIDE
4	8.27	8.23	375	3094	BV	~~.60~~	BROMOMETHANE NO - RT off
7	9.38	9.29	12	180	VV	.01	TRICHLOROFLUOROMETHANE
9	13.35	#13.40	407	6781	BV	.07	METHYLENE CHLORIDE
13	15.79	#15.85	275	4406	VV	.10	1,1-DICHLOROETHANE
17	17.82	#17.89	6830	60010	VV	1.79	CIS-1,2-DICHLOROETHENE
18	18.35	#18.38	236	3232	VV	.03	CHLOROFORM
19	19.46	#19.48	459	4975	BV	.13	1,1,1-TRICHLOROETHANE
20	21.09	#21.07	76	994	VV	.02	1,2-DICHLOROETHANE
22	22.73	#22.78	36200	294437	PV	6.91	TRICHLOROETHENE
24	32.34	#32.37	23259	172391	PV	83.08	SURR-1CL2FBENZENE
25	35.57	#35.51	25	305	PV	.01	1,1,2,2-TETRACHLOROETHANE
26	39.58	#39.58	190	2030	VV	.07	P-DICHLOROBENZENE
27	40.84	#40.80	23	385	VV	.01	O-DICHLOROBENZENE

JRB 439
9-30-92

Reported on Wed Sep 30, 1992 10:47:22 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT