APPENDIX B-3

INITIAL THREE-POINT CALIBRATION DATA

INITIAL CALIBRATION (3-POINT)

TIOGA 2
SUPPLY SOURCE: ACCUSTANDARD LOT #B1070297
INSTRUMENT: SHIMADZU GC14A

			LOW STANDARD				MID STANDARD				HIGH STANDARD				SUMMARY			
COMPOUND	DETECTOR	CAL DATE	RT	MASS	AREA	RF	RT	MASS	AREA	RF	RT	MASS	AREA	RF	AVE RT	AVE RF	SD	%RSD
CARBON TETRACHLORIDE	HALL	1/17/02	7.7	5	215	43.0	7.7	20	885	44.3	7.7	200	10,100	50.5	7.7	45.9	4.02	8.8%
CHLOROETHANE	HALL	1/17/02	3.3	5	79.4	15.9	3.2	25	431	17.2	3.3	50	756	15.1	3.3	16.1	1.07	6.7%
CHLOROFORM	HALL	1/17/02	7.1	5	170	34.0	7.1	20	730	36.5	7.1	200	8,970	44.9	7.1	38.5	5.68	14.8%
CHLOROMETHANE	HALL	1/17/02	2.6	4	84.0	21.0	2.6	20	431	21.6	2.6	40	708	17.7	2.6	20.1	2.08	10.4%
1,1-DICHLORO ETHANE	HALL	1/17/02	5.7	5	151	30.2	5.7	20	634	31.7	5.7	200	7,410	37.1	5.7	33.0	3.60	10.9%
1,2-DICHLORO ETHANE	HALL	1/17/02	8.0	5	194	38.8	8.1	20	728	36.4	8.0	200	7,950	39.8	8.0	38.3	1.73	4.5%
1,1-DICHLORO ETHENE	PID	1/17/02	4.1	5	3.79	0.758	4.1	20	14.7	0.735	4.1	200	149	0.745	4.1	0.750	0.012	1.5%
CIS-1,2-DICHLORO ETHENE	PID	1/17/02	6.5	5	4.94	0.988	6.6	20	19.1	0.96	6.6	200	188	0.940	6.6	0.960	0.025	2.6%
TRANS-1,2-DICHLORO ETHENE	PID	1/17/02	5.1	5	9.08	1.82	5.1	20	34.8	1.74	5.1	200	340	1.70	5.1	1.75	0.059	3.4%
DICHLOROMETHANE	HALL	1/17/02	4.8	5	146	29.2	4.8	20	651	32.6	4.8	200	7,850	39.3	4.8	33.7	5.12	15.2%
TETRACHLORO ETHENE	PID	1/17/02	12.9	5	4.67	0.934	12.9	20	17.2	0.860	12.9	200	172	0.860	12.9	0.880	0.043	4.9%
1,1,1,2-TETRACHLORO ETHANE	HALL	1/17/02	15.2	5	231	46.2	15.1	20	888	44.4	15.2	200	10,200	51.0	15.2	47.2	3.41	7.2%
1,1,2,2-TETRACHLORO ETHANE	HALL	1/17/02	18.4	5	199	39.8	18.4	20	825	41.3	18.4	200	8,700	43.5	18.4	41.5	1.86	4.5%
1,1,1-TRICHLORO ETHANE	HALL	1/17/02	7.4	5	160	32.0	7.4	20	686	34.3	7.4	200	8,140	40.7	7.4	35.7	4.51	12.6%
1,1,2-TRICHLORO ETHANE	HALL	1/17/02	12.6	5	123	24.6	12.6	20	578	28.9	12.6	200	6,810	34.1	12.6	29.2	4.73	16.2%
TRICHLORO ETHENE	PID	1/17/02	9.1	5	5.77	1.15	9.1	20	21.6	1.08	9.1	200	213	1.07	9.1	1.10	0.048	4.3%
VINYL CHLORIDE	HALL	1/17/02	2.7	5.2	164	31.5	2.7	26	769	29.6	2.7	52	1,280	24.6	2.7	28.6	3.57	12.5%
TRICHLOROFLUOROMETHANE (FR11)	HALL	1/17/02	3.6	10	432	43.2	3.6	50	1,920	38.4	3.6	100	3,044	30.4	3.6	37.3	6.44	17.3%
DICHLORODIFLUOROMETHANE (FR12)	HALL	1/17/02	2.4	8.4	153	18.21	2.3	42	894	21.3	2.3	84	1,610	19.17	2.3	19.6	1.57	8.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	1/17/02	4.1	10	212	21.2	4.1	40	937	23.4	4.1	400	11,700	29.3	4.1	24.6	4.16	16.9%
1,1,1-TRICHLORO ETHANE	FID	11/7/01	1.3	100	4.52	0.0452	1.3	1,000	48.2	0.0482	1.3	10,000	482	0.0482	1.3	0.0470	0.0017	3.7%
TRICHLORO ETHENE	FID	11/7/01	2.0	100	5.08	0.0508	2.0	1,000	50.2	0.0502	2.0	10,000	486	0.0486	2.0	0.0500	0.0011	2.3%
TETRACHLORO ETHENE	FID	11/7/01	4.4	100	4.26	0.0426	4.4	1,000	41.5	0.0415	4.4	10,000	403	0.0403	4.4	0.0410	0.0012	2.8%
BENZENE	PID	1/17/02	7.9	5	10.4	2.08	8.0	20	39.8	1.99	8.0	200	388	1.94	8.0	2.00	0.071	3.5%
CHLOROBENZENE	PID	1/17/02	14.9	5	10.0	2.00	14.9	20	38.3	1.92	14.9	200	392	1.96	14.9	1.96	0.043	2.2%
ETHYLBENZENE	PID	1/17/02	15.2	5	8.33	1.67	15.2	20	31.8	1.59	15.2	200	314	1.57	15.2	1.61	0.051	3.1%
TOLUENE	PID	1/17/02	11.7	5	9.49	1.90	11.7	20	36.1	1.81	11.7	200	369	1.85	11.7	1.85	0.047	2.5%
m&p-XYLENES	PID	1/17/02	15.5	10	19.2	1.92	15.5	40	74.1	1.85	15.5	400	782	1.96	15.5	1.91	0.052	2.7%
o-XYLENE	PID	1/17/02	16.5	5	7.92	1.58	16.5	20	30.6	1.53	16.5	200	316	1.58	16.5	1.56	0.030	1.9%
MTBE	PID	1/17/02	5.1	5	4.82	0.964	5.2	20	21.9	1.10	5.2	200	203	1.02	5.2	1.02	0.066	6.5%
METHANE	FID	11/28/01	0.25	100	17.4	0.174	0.25	1000	151	0.151	0.25	10000	1703	0.170	0.25	0.165	0.012	7.5%
TPH (C4-C6)	FID	10/25/01	0.4	600	483	0.805	0.4	1500	947	0.631	0.4	3000	2076	0.692	0.4	0.709	0.088	12.4%
CO2	TCD	1/23/02	1.5	1.0	39.8	39.8	1.5	5.0	212	42.4	1.5	10	413	41.3	1.5	41.2	1.31	3.2%
O2	TCD	1/23/02	2.7	4.16	192	45.9	2.7	10.45	458	43.8	2.7	20.9	907	43.4	2.7	44.4	1.36	3.1%
1,4 DIFLUORO BENZENE	PID	1/17/02	8.6	5	3.89	0.778	8.6	20	14.6	0.730	8.6	50	35.8	0.716	8.6	0.740	0.033	4.4%
TRIFLUORO TOULENE	PID	1/17/02	9.6	5	3.34	0.668	9.7	20	12.6	0.630	9.7	50	31.1	0.622	9.7	0.600	0.025	4.1%
4 BROMOFLUORO BENZENE	PID	1/17/02	17.8	5	11.5	2.30	17.9	20	45.4	2.27	17.9	50	114	2.28	17.9	2.28	0.015	0.7%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

SOIL GAS INITIAL LCS STANDARD REPORT (3-POINT CALIBRATION VERIFICATION)

LAB: TIOGA 2
SUPPLY SOURCE: ACCUSTANDARD LOT #B0120302
INSTRUMENT: SHIMADZU GC14A

COMPOUND	DETECTOR	CAL DATE	AVE RF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	1/17/02	45.9	20	7.7	988	49.4	7.6%
CHLOROFORM	HALL	1/17/02	38.5	20	7.1	770	38.5	0.0%
1,1-DICHLORO ETHANE	HALL	1/17/02	33.0	20	5.7	698	34.9	5.8%
1,2-DICHLORO ETHANE	HALL	1/17/02	38.3	20	8.1	827	41.4	8.0%
1,1-DICHLORO ETHENE	PID	1/17/02	0.750	20	4.1	15.4	0.77	2.7%
CIS-1,2-DICHLORO ETHENE	PID	1/17/02	0.96	20	6.6	19.3	0.97	0.5%
TRANS-1,2-DICHLORO ETHENE	PID	1/17/02	1.75	20	5.1	35.9	1.80	2.6%
DICHLOROMETHANE	HALL	1/17/02	33.7	20	4.8	725	36.3	7.6%
TETRACHLORO ETHENE	PID	1/17/02	0.88	20	12.9	17.1	0.86	2.8%
1,1,1,2-TETRACHLORO ETHANE	HALL	1/17/02	47.2	20	15.2	1,000	50.0	5.9%
1,1,2,2-TETRACHLORO ETHANE	HALL	1/17/02	41.5	20	18.3	903	45.2	8.8%
1,1,1-TRICHLORO ETHANE	HALL	1/17/02	35.7	20	7.4	787	39.4	10.2%
1,1,2-TRICHLORO ETHANE	HALL	1/17/02	29.2	20	12.6	588	29.40	0.7%
TRICHLORO ETHENE	PID	1/17/02	1.10	20	9.1	22.0	1.10	0.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	1/17/02	24.60	40	4.1	1,030	25.75	4.7%
BENZENE	PID	1/17/02	2.00	20	8.0	39.4	1.97	1.5%
ETHYLBENZENE	PID	1/17/02	1.61	20	15.2	31.7	1.59	1.6%
TOLUENE	PID	1/17/02	1.85	20	11.7	35.8	1.79	3.2%
m&p-XYLENES	PID	1/17/02	1.91	40	15.5	73.7	1.84	3.5%
o-XYLENE	PID	1/17/02	1.56	20	16.5	30.5	1.53	2.2%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

APPENDIX B-4

DAILY OPENING, CLOSING, AND CONTINUING CALIBRATION VERIFICATION REPORTS

QA/QC CALIBRATION DATA

DATE: 02/11/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT #B1070297
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT #B0120302
INSTRUMENT: SHIMADZU GC14A FRONT

			OPENING STANDARD					CLOSING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	7.7	930	46.5	1.3%	20	7.7	929	46.5	1.2%
CHLOROFORM	HALL	38.5	20	7.1	731	36.6	5.1%	20	7.1	716	35.8	7.0%
1,1-DICHLORO ETHANE	HALL	33.0	20	5.7	675	33.8	2.3%	20	5.7	689	34.5	4.4%
1,2-DICHLORO ETHANE	HALL	38.3	20	8.0	801	40.1	4.6%	20	8.0	871	43.6	13.7%
1,1-DICHLORO ETHENE	PID	0.750	20	4.1	15.4	0.8	2.7%	20	4.1	15.0	0.8	0.0%
CIS-1,2-DICHLORO ETHENE	PID	0.96	20	6.6	20.4	1.0	6.3%	20	6.6	19.9	1.0	3.6%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	5.1	36.4	1.8	4.0%	20	5.1	35.8	1.8	2.3%
DICHLOROMETHANE	HALL	33.7	20	4.8	630	31.5	6.5%	20	4.8	697	34.9	3.4%
TETRACHLORO ETHENE	PID	0.88	20	12.9	18.7	0.9	6.3%	20	12.9	18.2	0.9	3.4%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	15.2	1020	51.0	8.1%	20	15.2	996	49.8	5.5%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	18.4	824	41.2	0.7%	20	18.4	901	45.1	8.6%
1,1,1-TRICHLORO ETHANE	HALL	35.7	20	7.4	736	36.8	3.1%	20	7.4	748	37.4	4.8%
1,1,2-TRICHLORO ETHANE	HALL	29.20	20	12.6	633	31.7	8.4%	20	12.6	595	29.8	1.9%
TRICHLORO ETHENE	PID	1.10	20	9.1	23.2	1.2	5.5%	20	9.1	22.7	1.1	3.2%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.60	40	4.1	919	23.0	6.6%	40	4.1	927	23.2	5.8%
BENZENE	PID	2.00	20	8.0	42.1	2.1	5.3%	20	8.0	41.6	2.1	4.0%
CHLOROBENZENE	PID	1.96	20	14.9	41.3	2.1	5.4%	20	14.9	40.6	2.0	3.6%
ETHYLBENZENE	PID	1.61	20	15.2	34.4	1.7	6.8%	20	15.2	33.8	1.7	5.0%
TOLUENE	PID	1.85	20	11.7	38.9	1.9	5.1%	20	11.7	38.4	1.9	3.8%
m&p-XYLENES	PID	1.91	40	15.5	79.9	2.0	4.6%	40	15.5	78.8	2.0	3.1%
o-XYLENE	PID	1.56	20	16.5	33.2	1.7	6.4%	20	16.5	33.3	1.7	6.7%
1,4 DIFLUORO BENZENE	PID	0.740	20	8.6	15.7	0.8	6.1%	20	8.6	15.3	0.8	3.4%
4 BROMOFLUORO BENZENE	PID	2.28	20	17.9	48.6	2.4	6.6%	20	17.9	48.0	2.4	5.3%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC - CALIBRATION DATA

DATE: 02/11/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: (CALIBRATION VERIFICATION)
ACCUSTANDARD LOT # B1070297
INSTRUMENT: SHIMADZU GC14A

COMPOUND	DETECTOR	AVE RF	CONTINUING STANDARD MASS	RT	AREA	CF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	10.1	865	43	5.8%
CHLOROFORM	HALL	38.5	20	9.2	629	31.5	18.3%
1,1-DICHLORO ETHANE	HALL	33.0	20	7.7	639	32	3.2%
1,2-DICHLORO ETHANE	HALL	38.3	20	10.3	775	39	1.2%
1,1-DICHLORO ETHENE	PID	0.75	20	5.8	14.5	0.7	3.3%
CIS-1,2-DICHLORO ETHENE	PID	0.960	20	8.5	19.4	1.0	1.0%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	6.9	34.8	1.7	0.6%
DICHLOROMETHANE	HALL	33.7	20	6.8	620	31.0	8.0%
TETRACHLORO ETHENE	PID	0.88	20	15.7	18.0	0.9	2.3%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	18.2	968	48.4	2.5%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	21.0	826	41.3	0.5%
1,1,1-TRICHLORO ETHANE	HALL	35.7	20	9.6	633	32	11.3%
1,1,2-TRICHLORO ETHANE	HALL	29.2	20	14.9	531	27	9.1%
TRICHLORO ETHENE	PID	1.10	20	11.5	22.0	1.1	0.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.6	40	5.7	866	22	12.0%
BENZENE	PID	2.00	20	10.3	40.2	2.0	0.5%
CHLOROBENZENE	PID	1.96	20	17.6	39.5	2.0	0.8%
ETHYLBENZENE	PID	1.61	20	17.7	32.8	1.6	1.9%
TOLUENE	PID	1.85	20	14.1	37.2	1.9	0.5%
m&p-XYLENES	PID	1.91	40	17.9	76.3	1.9	0.1%
o-XYLENE	PID	1.56	20	19.1	31.8	1.6	1.9%
1,4 DIFLUORO BENZENE	PID	0.740	20	10.7	15.0	0.8	1.4%
4 BROMOFLUORO BENZENE	PID	2.28	20	20.8	46.8	2.3	2.6%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC CALIBRATION DATA

DATE: 02/12/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT #B1070297
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT #B0120302
INSTRUMENT: SHIMADZU GC14A FRONT

			OPENING STANDARD					CLOSING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	7.7	955	47.8	4.0%	20	7.7	958	47.9	4.4%
CHLOROFORM	HALL	38.5	20	7.1	751	37.6	2.5%	20	7.1	803	40.2	4.3%
1,1-DICHLORO ETHANE	HALL	33.0	20	5.7	679	34.0	2.9%	20	5.7	687	34.4	4.1%
1,2-DICHLORO ETHANE	HALL	38.3	20	8.0	844	42.2	10.2%	20	8.0	837	41.9	9.3%
1,1-DICHLORO ETHENE	PID	0.750	20	4.1	14.0	0.7	6.7%	20	4.1	14.2	0.7	5.3%
CIS-1,2-DICHLORO ETHENE	PID	0.96	20	6.6	18.8	0.9	2.1%	20	6.6	19.1	1.0	0.5%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	5.1	33.7	1.7	3.7%	20	5.1	34.1	1.7	2.6%
DICHLOROMETHANE	HALL	33.7	20	4.8	717	35.9	6.4%	20	4.8	665	33.3	1.3%
TETRACHLORO ETHENE	PID	0.88	20	12.9	17.4	0.9	1.1%	20	12.9	17.5	0.9	0.6%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	15.2	1070	53.5	13.3%	20	15.2	1020	51.0	8.1%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	18.4	948	47.4	14.2%	20	18.4	898	44.9	8.2%
1,1,1-TRICHLORO ETHANE	HALL	35.7	20	7.4	797	39.9	11.6%	20	7.4	709	35.5	0.7%
1,1,2-TRICHLORO ETHANE	HALL	29.20	20	12.6	602	30.1	3.1%	20	12.6	605	30.3	3.6%
TRICHLORO ETHENE	PID	1.10	20	9.1	21.5	1.1	2.3%	20	9.1	21.7	1.1	1.4%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.60	40	4.1	1020	25.5	3.7%	40	4.1	961	24.0	2.3%
BENZENE	PID	2.00	20	8.0	39.3	2.0	1.8%	20	8.0	40.0	2.0	0.0%
CHLOROBENZENE	PID	1.96	20	14.9	38.5	1.9	1.8%	20	14.9	39.0	2.0	0.5%
ETHYLBENZENE	PID	1.61	20	15.2	32.0	1.6	0.6%	20	15.2	32.5	1.6	0.9%
TOLUENE	PID	1.85	20	11.7	36.3	1.8	1.9%	20	11.7	36.9	1.8	0.3%
m&p-XYLENES	PID	1.91	40	15.5	74.5	1.9	2.5%	40	15.5	75.8	1.9	0.8%
o-XYLENE	PID	1.56	20	16.5	31.3	1.6	0.3%	20	16.5	31.6	1.6	1.3%
1,4 DIFLUORO BENZENE	PID	0.740	20	8.6	14.6	0.7	1.4%	20	8.6	14.7	0.7	0.7%
4 BROMOFLUORO BENZENE	PID	2.28	20	17.9	45.8	2.3	0.4%	20	17.9	45.7	2.3	0.2%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC - CALIBRATION DATA

DATE: 02/12/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: (CALIBRATION VERIFICATION)
ACCUSTANDARD LOT # B1070297
INSTRUMENT: SHIMADZU GC14A

COMPOUND	DETECTOR	AVE RF	CONTINUING STANDARD MASS	RT	AREA	CF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	10.1	901	45	1.9%
CHLOROFORM	HALL	38.5	20	9.2	704	35.2	8.6%
1,1-DICHLORO ETHANE	HALL	33.0	20	7.7	598	30	9.4%
1,2-DICHLORO ETHANE	HALL	38.3	20	10.3	798	40	4.2%
1,1-DICHLORO ETHENE	PID	0.75	20	5.8	14.3	0.7	4.7%
CIS-1,2-DICHLORO ETHENE	PID	0.960	20	8.5	19.4	1.0	1.0%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	6.9	34.8	1.7	0.6%
DICHLOROMETHANE	HALL	33.7	20	6.8	554	27.7	17.8%
TETRACHLORO ETHENE	PID	0.88	20	15.7	17.8	0.9	1.1%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	18.2	979	49.0	3.7%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	21.0	959	48.0	15.5%
1,1,1-TRICHLORO ETHANE	HALL	35.7	20	9.6	716	36	0.3%
1,1,2-TRICHLORO ETHANE	HALL	29.2	20	14.9	579	29	0.9%
TRICHLORO ETHENE	PID	1.10	20	11.5	22.1	1.1	0.5%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.6	40	5.7	855	21	13.1%
BENZENE	PID	2.00	20	10.3	40.3	2.0	0.7%
CHLOROBENZENE	PID	1.96	20	17.6	39.6	2.0	1.0%
ETHYLBENZENE	PID	1.61	20	17.7	32.9	1.6	2.2%
TOLUENE	PID	1.85	20	14.1	37.5	1.9	1.4%
m&p-XYLENES	PID	1.91	40	17.9	76.7	1.9	0.4%
o-XYLENE	PID	1.56	20	19.1	32.1	1.6	2.9%
1,4 DIFLUORO BENZENE	PID	0.740	20	10.7	14.9	0.7	0.7%
4 BROMOFLUORO BENZENE	PID	2.28	20	20.8	47.2	2.4	3.5%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC CALIBRATION DATA

DATE: 02/13/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT #B1070297
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT #B0120302
INSTRUMENT: SHIMADZU GC14A FRONT

			OPENING STANDARD					CLOSING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	7.7	977	48.9	6.4%	20	7.7	922	46.1	0.4%
CHLOROFORM	HALL	38.5	20	7.1	775	38.8	0.6%	20	7.1	718	35.9	6.8%
1,1-DICHLORO ETHANE	HALL	33.0	20	5.7	662	33.1	0.3%	20	5.7	662	33.1	0.3%
1,2-DICHLORO ETHANE	HALL	38.3	20	8.0	811	40.6	5.9%	20	8.0	864	43.2	12.8%
1,1-DICHLORO ETHENE	PID	0.750	20	4.1	14.3	0.7	4.7%	20	4.1	14.4	0.7	4.0%
CIS-1,2-DICHLORO ETHENE	PID	0.96	20	6.6	19.4	1.0	1.0%	20	6.6	19.8	1.0	3.1%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	5.1	34.5	1.7	1.4%	20	5.1	35.4	1.8	1.1%
DICHLOROMETHANE	HALL	33.7	20	4.8	642	32.1	4.7%	20	4.8	633	31.7	6.1%
TETRACHLORO ETHENE	PID	0.88	20	12.9	18.0	0.9	2.3%	20	12.9	18.1	0.9	2.8%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	15.2	954	47.7	1.1%	20	15.2	999	50.0	5.8%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	18.4	958	47.9	15.4%	20	18.4	932	46.6	12.3%
1,1,1-TRICHLORO ETHANE	HALL	35.7	20	7.4	751	37.6	5.2%	20	7.4	699	35.0	2.1%
1,1,2-TRICHLORO ETHANE	HALL	29.20	20	12.6	578	28.9	1.0%	20	12.6	569	28.5	2.6%
TRICHLORO ETHENE	PID	1.10	20	9.1	22.2	1.1	0.9%	20	9.1	22.6	1.1	2.7%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.60	40	4.1	992	24.8	0.8%	40	4.1	901	22.5	8.4%
BENZENE	PID	2.00	20	8.0	40.5	2.0	1.3%	20	8.0	41.2	2.1	3.0%
CHLOROBENZENE	PID	1.96	20	14.9	40.1	2.0	2.3%	20	14.9	40.4	2.0	3.1%
ETHYLBENZENE	PID	1.61	20	15.2	33.4	1.7	3.7%	20	15.2	33.7	1.7	4.7%
TOLUENE	PID	1.85	20	11.7	37.8	1.9	2.2%	20	11.7	38.2	1.9	3.2%
m&p-XYLENES	PID	1.91	40	15.5	77.1	1.9	0.9%	40	15.5	78.3	2.0	2.5%
o-XYLENE	PID	1.56	20	16.5	32.1	1.6	2.9%	20	16.5	32.7	1.6	4.8%
1,4 DIFLUORO BENZENE	PID	0.740	20	8.6	15.1	0.8	2.0%	20	8.6	15.5	0.8	4.7%
4 BROMOFLUORO BENZENE	PID	2.28	20	17.9	47.7	2.4	4.6%	20	17.9	48.0	2.4	5.3%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC - CALIBRATION DATA

DATE: 02/13/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: (CALIBRATION VERIFICATION)
ACCUSTANDARD LOT # B1070297
INSTRUMENT: SHIMADZU GC14A

			CONTINUING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	CF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	10.1	917	46	0.1%
CHLOROFORM	HALL	38.5	20	9.2	718	35.9	6.8%
1,1-DICHLORO ETHANE	HALL	33.0	20	7.7	635	32	3.8%
1,2-DICHLORO ETHANE	HALL	38.3	20	10.3	828	41	8.1%
1,1-DICHLORO ETHENE	PID	0.75	20	5.8	13.5	0.7	10.0%
CIS-1,2-DICHLORO ETHENE	PID	0.960	20	8.5	18.5	0.9	3.6%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	6.9	33.1	1.7	5.4%
DICHLOROMETHANE	HALL	33.7	20	6.8	665	33.3	1.3%
TETRACHLORO ETHENE	PID	0.88	20	15.7	17.1	0.9	2.8%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	18.2	985	49.3	4.3%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	21.0	950	47.5	14.5%
1,1,1-TRICHLORO ETHANE	HALL	35.7	20	9.6	706	35	1.1%
1,1,2-TRICHLORO ETHANE	HALL	29.2	20	14.9	572	29	2.1%
TRICHLORO ETHENE	PID	1.10	20	11.5	21.1	1.1	4.1%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.6	40	5.7	947	24	3.8%
BENZENE	PID	2.00	20	10.3	38.6	1.9	3.5%
CHLOROBENZENE	PID	1.96	20	17.6	38.1	1.9	2.8%
ETHYLBENZENE	PID	1.61	20	17.7	31.7	1.6	1.6%
TOLUENE	PID	1.85	20	14.1	35.9	1.8	3.0%
m&p-XYLENES	PID	1.91	40	17.9	74.5	1.9	2.5%
o-XYLENE	PID	1.56	20	19.1	31.2	1.6	0.0%
1,4 DIFLUORO BENZENE	PID	0.740	20	10.7	14.2	0.7	4.1%
4 BROMOFLUORO BENZENE	PID	2.28	20	20.8	44.6	2.2	2.2%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC CALIBRATION DATA

DATE: 02/14/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT #B1070297
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT #B0120302
INSTRUMENT: SHIMADZU GC14A FRONT

			OPENING STANDARD					CLOSING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	7.7	905	45.3	1.4%	20	7.7	841	42.1	8.4%
CHLOROFORM	HALL	38.5	20	7.1	735	36.8	4.5%	20	7.1	663	33.2	13.9%
1,1-DICHLORO ETHANE	HALL	33.0	20	5.7	697	34.9	5.6%	20	5.7	609	30.5	7.7%
1,2-DICHLORO ETHANE	HALL	38.3	20	8.0	850	42.5	11.0%	20	8.0	732	36.6	4.4%
1,1-DICHLORO ETHENE	PID	0.750	20	4.1	13.5	0.7	10.0%	20	4.1	13.8	0.7	8.0%
CIS-1,2-DICHLORO ETHENE	PID	0.96	20	6.6	18.7	0.9	2.6%	20	6.6	19.0	1.0	1.0%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	5.1	33.1	1.7	5.4%	20	5.1	34.0	1.7	2.9%
DICHLOROMETHANE	HALL	33.7	20	4.8	691	34.6	2.5%	20	4.8	574	28.7	14.8%
TETRACHLORO ETHENE	PID	0.88	20	12.9	17.2	0.9	2.3%	20	12.9	17.5	0.9	0.6%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	15.2	1006	50.3	6.6%	20	15.2	953	47.7	1.0%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	18.4	916	45.8	10.4%	20	18.4	836	41.8	0.7%
1,1,1-TRICHLORO ETHANE	HALL	35.7	20	7.4	717	35.9	0.4%	20	7.4	659	33.0	7.7%
1,1,2-TRICHLORO ETHANE	HALL	29.20	20	12.6	569	28.5	2.6%	20	12.6	556	27.8	4.8%
TRICHLORO ETHENE	PID	1.10	20	9.1	21.3	1.1	3.2%	20	9.1	21.6	1.1	1.8%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.60	40	4.1	969	24.2	1.5%	40	4.1	845	21.1	14.1%
BENZENE	PID	2.00	20	8.0	38.8	1.9	3.0%	20	8.0	39.6	2.0	1.0%
CHLOROBENZENE	PID	1.96	20	14.9	38.5	1.9	1.8%	20	14.9	38.8	1.9	1.0%
ETHYLBENZENE	PID	1.61	20	15.2	31.9	1.6	0.9%	20	15.2	32.2	1.6	0.0%
TOLUENE	PID	1.85	20	11.7	36.0	1.8	2.7%	20	11.7	36.4	1.8	1.6%
m&p-XYLENES	PID	1.91	40	15.5	74.4	1.9	2.6%	40	15.5	74.9	1.9	2.0%
o-XYLENE	PID	1.56	20	16.5	31.3	1.6	0.3%	20	16.5	31.0	1.6	0.6%
1,4 DIFLUORO BENZENE	PID	0.740	20	8.6	14.4	0.7	2.7%	20	8.6	14.9	0.7	0.7%
4 BROMOFLUORO BENZENE	PID	2.28	20	17.9	44.9	2.2	1.5%	20	17.9	46.5	2.3	2.0%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC - CALIBRATION DATA

DATE: 02/14/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: (CALIBRATION VERIFICATION)
ACCUSTANDARD LOT # B1070297
INSTRUMENT: SHIMADZU GC14A

COMPOUND	DETECTOR	AVE RF	CONTINUING STANDARD MASS	RT	AREA	CF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	10.1	908	45	1.1%
CHLOROFORM	HALL	38.5	20	9.2	675	33.8	12.3%
1,1-DICHLORO ETHANE	HALL	33.0	20	7.7	647	32	2.0%
1,2-DICHLORO ETHANE	HALL	38.3	20	10.3	804	40	5.0%
1,1-DICHLORO ETHENE	PID	0.75	20	5.8	14.4	0.7	4.0%
CIS-1,2-DICHLORO ETHENE	PID	0.960	20	8.5	19.8	1.0	3.1%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	6.9	35.2	1.8	0.6%
DICHLOROMETHANE	HALL	33.7	20	6.8	619	31.0	8.2%
TETRACHLORO ETHENE	PID	0.88	20	15.7	18.2	0.9	3.4%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	18.2	930	46.5	1.5%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	21.0	882	44.1	6.3%
1,1,1-TRICHLORO ETHANE	HALL	35.7	20	9.6	734	37	2.8%
1,1,2-TRICHLORO ETHANE	HALL	29.2	20	14.9	566	28	3.1%
TRICHLORO ETHENE	PID	1.10	20	11.5	22.7	1.1	3.2%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.6	40	5.7	906	23	7.9%
BENZENE	PID	2.00	20	10.3	41.2	2.1	3.0%
CHLOROBENZENE	PID	1.96	20	17.6	40.4	2.0	3.1%
ETHYLBENZENE	PID	1.61	20	17.7	33.6	1.7	4.3%
TOLUENE	PID	1.85	20	14.1	38.0	1.9	2.7%
m&p-XYLENES	PID	1.91	40	17.9	78.0	2.0	2.1%
o-XYLENE	PID	1.56	20	19.1	32.8	1.6	5.1%
1,4 DIFLUORO BENZENE	PID	0.740	20	10.7	15.4	0.8	4.1%
4 BROMOFLUORO BENZENE	PID	2.28	20	20.8	47.9	2.4	5.0%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC CALIBRATION DATA

DATE: 02/15/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT #B1070297
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT #B0120302
INSTRUMENT: SHIMADZU GC14A FRONT

			OPENING STANDARD					CLOSING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	7.7	920	46.0	0.2%	20	7.7	787	39.4	14.3%
CHLOROFORM	HALL	38.5	20	7.1	656	32.8	14.8%	20	7.1	651	32.6	15.5%
1,1-DICHLORO ETHANE	HALL	33.0	20	5.7	659	33.0	0.2%	20	5.7	600	30.0	9.1%
1,2-DICHLORO ETHANE	HALL	38.3	20	8.0	809	40.5	5.6%	20	8.0	734	36.7	4.2%
1,1-DICHLORO ETHENE	PID	0.750	20	4.1	14.5	0.7	3.3%	20	4.1	13.8	0.7	8.0%
CIS-1,2-DICHLORO ETHENE	PID	0.96	20	6.6	19.6	1.0	2.1%	20	6.6	19.3	1.0	0.5%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	5.1	35.4	1.8	1.1%	20	5.1	34.2	1.7	2.3%
DICHLOROMETHANE	HALL	33.7	20	4.8	582	29.1	13.6%	20	4.8	570	28.5	15.4%
TETRACHLORO ETHENE	PID	0.88	20	12.9	17.8	0.9	1.1%	20	12.9	17.7	0.9	0.6%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	15.2	996	49.8	5.5%	20	15.2	913	45.7	3.3%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	18.4	891	44.6	7.3%	20	18.4	827	41.4	0.4%
1,1,1-TRICHLORO ETHANE	HALL	35.7	20	7.4	700	35.0	2.0%	20	7.4	636	31.8	10.9%
1,1,2-TRICHLORO ETHANE	HALL	29.20	20	12.6	551	27.6	5.7%	20	12.6	520	26.0	11.0%
TRICHLORO ETHENE	PID	1.10	20	9.1	22.2	1.1	0.9%	20	9.1	22.0	1.1	0.0%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.60	40	4.1	773	19.3	21.4%	40	4.1	810	20.3	17.7%
BENZENE	PID	2.00	20	8.0	40.5	2.0	1.3%	20	8.0	39.9	2.0	0.3%
CHLOROBENZENE	PID	1.96	20	14.9	38.9	1.9	0.8%	20	14.9	39.2	2.0	0.0%
ETHYLBENZENE	PID	1.61	20	15.2	32.3	1.6	0.3%	20	15.2	32.7	1.6	1.6%
TOLUENE	PID	1.85	20	11.7	37.1	1.9	0.3%	20	11.7	37.2	1.9	0.5%
m&p-XYLENES	PID	1.91	40	15.5	74.9	1.9	2.0%	40	15.5	76.2	1.9	0.3%
o-XYLENE	PID	1.56	20	16.5	31.2	1.6	0.0%	20	16.5	31.6	1.6	1.3%
1,4 DIFLUORO BENZENE	PID	0.740	20	8.6	15.0	0.8	1.4%	20	8.6	14.9	0.7	0.7%
4 BROMOFLUORO BENZENE	PID	2.28	20	17.9	45.2	2.3	0.9%	20	17.9	46.3	2.3	1.5%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC - CALIBRATION DATA

DATE: 02/15/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: (CALIBRATION VERIFICATION)
ACCUSTANDARD LOT # B1070297
INSTRUMENT: SHIMADZU GC14A

COMPOUND	DETECTOR	AVE RF	CONTINUING STANDARD MASS	RT	AREA	CF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	10.1	864	43	5.9%
CHLOROFORM	HALL	38.5	20	9.2	669	33.5	13.1%
1,1-DICHLORO ETHANE	HALL	33.0	20	7.7	575	29	12.9%
1,2-DICHLORO ETHANE	HALL	38.3	20	10.3	783	39	2.2%
1,1-DICHLORO ETHENE	PID	0.75	20	5.8	13.9	0.7	7.3%
CIS-1,2-DICHLORO ETHENE	PID	0.960	20	8.5	19.5	1.0	1.6%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	6.9	34.4	1.7	1.7%
DICHLOROMETHANE	HALL	33.7	20	6.8	577	28.9	14.4%
TETRACHLORO ETHENE	PID	0.88	20	15.7	17.9	0.9	1.7%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	18.2	932	46.6	1.3%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	21.0	836	41.8	0.7%
1,1,1-TRICHLORO ETHANE	HALL	35.7	20	9.6	679	34	4.9%
1,1,2-TRICHLORO ETHANE	HALL	29.2	20	14.9	575	29	1.5%
TRICHLORO ETHENE	PID	1.10	20	11.5	22.1	1.1	0.5%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.6	40	5.7	823	21	16.4%
BENZENE	PID	2.00	20	10.3	40.3	2.0	0.7%
CHLOROBENZENE	PID	1.96	20	17.6	39.8	2.0	1.5%
ETHYLBENZENE	PID	1.61	20	17.7	32.9	1.6	2.2%
TOLUENE	PID	1.85	20	14.1	37.5	1.9	1.4%
m&p-XYLENES	PID	1.91	40	17.9	76.8	1.9	0.5%
o-XYLENE	PID	1.56	20	19.1	31.8	1.6	1.9%
1,4 DIFLUORO BENZENE	PID	0.740	20	10.7	14.9	0.7	0.7%
4 BROMOFLUORO BENZENE	PID	2.28	20	20.8	46.7	2.3	2.4%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC CALIBRATION DATA

DATE: 02/19/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT #B1070297
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT #B0120302
INSTRUMENT: SHIMADZU GC14A FRONT

			OPENING STANDARD					CLOSING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	7.7	924	46.2	0.7%	20	7.7	873	43.7	4.9%
CHLOROFORM	HALL	38.5	20	7.1	706	35.3	8.3%	20	7.1	670	33.5	13.0%
1,1-DICHLORO ETHANE	HALL	33.0	20	5.7	640	32.0	3.0%	20	5.7	591	29.6	10.5%
1,2-DICHLORO ETHANE	HALL	38.3	20	8.0	800	40.0	4.4%	20	8.0	756	37.8	1.3%
1,1-DICHLORO ETHENE	PID	0.750	20	4.1	14.0	0.7	6.7%	20	4.1	16.4	0.8	9.3%
CIS-1,2-DICHLORO ETHENE	PID	0.96	20	6.6	19.0	1.0	1.0%	20	6.6	20.5	1.0	6.8%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	5.1	34.0	1.7	2.9%	20	5.1	37.9	1.9	8.3%
DICHLOROMETHANE	HALL	33.7	20	4.8	612	30.6	9.2%	20	4.8	633	31.7	6.1%
TETRACHLORO ETHENE	PID	0.88	20	12.9	17.3	0.9	1.7%	20	12.9	18.4	0.9	4.5%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	15.2	1020	51.0	8.1%	20	15.2	837	41.9	11.3%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	18.4	894	44.7	7.7%	20	18.4	720	36.0	13.3%
1,1,1-TRICHLORO ETHANE	HALL	35.7	20	7.4	652	32.6	8.7%	20	7.4	683	34.2	4.3%
1,1,2-TRICHLORO ETHANE	HALL	29.20	20	12.6	623	31.2	6.7%	20	12.6	512	25.6	12.3%
TRICHLORO ETHENE	PID	1.10	20	9.1	21.6	1.1	1.8%	20	9.1	23.5	1.2	6.8%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.60	40	4.1	773	19.3	21.4%	40	4.1	891	22.3	9.5%
BENZENE	PID	2.00	20	8.0	39.4	2.0	1.5%	20	8.0	41.7	2.1	4.3%
CHLOROBENZENE	PID	1.96	20	14.9	38.4	1.9	2.0%	20	14.9	38.3	1.9	2.3%
ETHYLBENZENE	PID	1.61	20	15.2	31.7	1.6	1.6%	20	15.2	33.1	1.7	2.8%
TOLUENE	PID	1.85	20	11.7	36.3	1.8	1.9%	20	11.7	38.0	1.9	2.7%
m&p-XYLENES	PID	1.91	40	15.5	73.8	1.8	3.4%	40	15.5	77.2	1.9	1.0%
o-XYLENE	PID	1.56	20	16.5	31.0	1.6	0.6%	20	16.5	32.1	1.6	2.9%
1,4 DIFLUORO BENZENE	PID	0.740	20	8.6	14.8	0.7	0.0%	20	8.6	15.9	0.8	7.4%
4 BROMOFLUORO BENZENE	PID	2.28	20	17.9	45.3	2.3	0.7%	20	17.9	47.3	2.4	3.7%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC - CALIBRATION DATA

DATE: 02/19/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: (CALIBRATION VERIFICATION)
ACCUSTANDARD LOT # B1070297
INSTRUMENT: SHIMADZU GC14A

COMPOUND	DETECTOR	AVE RF	CONTINUING STANDARD MASS	RT	AREA	CF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	10.1	928	46	1.1%
CHLOROFORM	HALL	38.5	20	9.2	747	37.4	3.0%
1,1-DICHLORO ETHANE	HALL	33.0	20	7.7	693	35	5.0%
1,2-DICHLORO ETHANE	HALL	38.3	20	10.3	814	41	6.3%
1,1-DICHLORO ETHENE	PID	0.75	20	5.8	13.3	0.7	11.3%
CIS-1,2-DICHLORO ETHENE	PID	0.960	20	8.5	18.4	0.9	4.2%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	6.9	32.8	1.6	6.3%
DICHLOROMETHANE	HALL	33.7	20	6.8	625	31.3	7.3%
TETRACHLORO ETHENE	PID	0.88	20	15.7	16.9	0.8	4.0%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	18.2	993	49.7	5.2%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	21.0	945	47.3	13.9%
1,1,1-TRICHLORO ETHANE	HALL	35.7	20	9.6	715	36	0.1%
1,1,2-TRICHLORO ETHANE	HALL	29.2	20	14.9	621	31	6.3%
TRICHLORO ETHENE	PID	1.10	20	11.5	21.0	1.1	4.5%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.6	40	5.7	893	22	9.2%
BENZENE	PID	2.00	20	10.3	38.4	1.9	4.0%
CHLOROBENZENE	PID	1.96	20	17.6	37.8	1.9	3.6%
ETHYLBENZENE	PID	1.61	20	17.7	31.3	1.6	2.8%
TOLUENE	PID	1.85	20	14.1	35.5	1.8	4.1%
m&p-XYLENES	PID	1.91	40	17.9	72.9	1.8	4.6%
o-XYLENE	PID	1.56	20	19.1	30.3	1.5	2.9%
1,4 DIFLUORO BENZENE	PID	0.740	20	10.7	14.4	0.7	2.7%
4 BROMOFLUORO BENZENE	PID	2.28	20	20.8	45.7	2.3	0.2%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC CALIBRATION DATA

DATE: 02/20/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT #B1070297
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT #B0120302
INSTRUMENT: SHIMADZU GC14A FRONT

			OPENING STANDARD					CLOSING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	7.7	1004	50.2	9.4%	20	7.7	774	38.7	15.7%
CHLOROFORM	HALL	38.5	20	7.1	818	40.9	6.2%	20	7.1	624	31.2	19.0%
1,1-DICHLORO ETHANE	HALL	33.0	20	5.7	715	35.8	8.3%	20	5.7	624	31.2	5.5%
1,2-DICHLORO ETHANE	HALL	38.3	20	8.0	875	43.8	14.2%	20	8.0	742	37.1	3.1%
1,1-DICHLORO ETHENE	PID	0.750	20	4.1	15.3	0.8	2.0%	20	4.1	13.1	0.7	12.7%
CIS-1,2-DICHLORO ETHENE	PID	0.96	20	6.6	20.9	1.0	8.9%	20	6.6	18.3	0.9	4.7%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	5.1	37.1	1.9	6.0%	20	5.1	32.4	1.6	7.4%
DICHLOROMETHANE	HALL	33.7	20	4.8	661	33.1	1.9%	20	4.8	614	30.7	8.9%
TETRACHLORO ETHENE	PID	0.88	20	12.9	19.0	1.0	8.0%	20	12.9	16.7	0.8	5.1%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	15.2	1087	54.4	15.1%	20	15.2	837	41.9	11.3%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	18.4	941	47.1	13.4%	20	18.4	779	39.0	6.1%
1,1,1-TRICHLORO ETHANE	HALL	35.7	20	7.4	775	38.8	8.5%	20	7.4	618	30.9	13.4%
1,1,2-TRICHLORO ETHANE	HALL	29.20	20	12.6	671	33.6	14.9%	20	12.6	519	26.0	11.1%
TRICHLORO ETHENE	PID	1.10	20	9.1	23.8	1.2	8.2%	20	9.1	21.0	1.1	4.5%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.60	40	4.1	940	23.5	4.5%	40	4.1	816	20.4	17.1%
BENZENE	PID	2.00	20	8.0	43.3	2.2	8.3%	20	8.0	37.9	1.9	5.3%
CHLOROBENZENE	PID	1.96	20	14.9	42.6	2.1	8.7%	20	14.9	37.5	1.9	4.3%
ETHYLBENZENE	PID	1.61	20	15.2	35.4	1.8	9.9%	20	15.2	31.0	1.6	3.7%
TOLUENE	PID	1.85	20	11.7	40.1	2.0	8.4%	20	11.7	35.1	1.8	5.1%
m&p-XYLENES	PID	1.91	40	15.5	82.0	2.1	7.3%	40	15.5	72.7	1.8	4.8%
o-XYLENE	PID	1.56	20	16.5	34.2	1.7	9.6%	20	16.5	30.2	1.5	3.2%
1,4 DIFLUORO BENZENE	PID	0.740	20	8.6	16.2	0.8	9.5%	20	8.6	14.4	0.7	2.7%
4 BROMOFLUORO BENZENE	PID	2.28	20	17.9	49.6	2.5	8.8%	20	17.9	44.8	2.2	1.8%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC - CALIBRATION DATA

DATE: 02/20/02
HP Labs Project #GF021102T2
TIOGA 2

SUPPLY SOURCE: (CALIBRATION VERIFICATION)
ACCUSTANDARD LOT # B1070297
INSTRUMENT: SHIMADZU GC14A

			CONTINUING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	CF	%DIFF
CARBON TETRACHLORIDE	HALL	45.9	20	10.1	831	42	9.5%
CHLOROFORM	HALL	38.5	20	9.2	676	33.8	12.2%
1,1-DICHLORO ETHANE	HALL	33.0	20	7.7	634	32	3.9%
1,2-DICHLORO ETHANE	HALL	38.3	20	10.3	775	39	1.2%
1,1-DICHLORO ETHENE	PID	0.75	20	5.8	13.2	0.7	12.0%
CIS-1,2-DICHLORO ETHENE	PID	0.960	20	8.5	18.3	0.9	4.7%
TRANS-1,2-DICHLORO ETHENE	PID	1.75	20	6.9	32.4	1.6	7.4%
DICHLOROMETHANE	HALL	33.7	20	6.8	595	29.8	11.7%
TETRACHLORO ETHENE	PID	0.88	20	15.7	17.0	0.9	3.4%
1,1,1,2-TETRACHLORO ETHANE	HALL	47.2	20	18.2	982	49.1	4.0%
1,1,2,2-TETRACHLORO ETHANE	HALL	41.5	20	21.0	814	40.7	1.9%
1,1;1-TRICHLORO ETHANE	HALL	35.7	20	9.6	655	33	8.3%
1,1,2-TRICHLORO ETHANE	HALL	29.2	20	14.9	540	27	7.5%
TRICHLORO ETHENE	PID	1.10	20	11.5	21.1	1.1	4.1%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	24.6	40	5.7	861	22	12.5%
BENZENE	PID	2.00	20	10.3	38.2	1.9	4.5%
CHLOROBENZENE	PID	1.96	20	17.6	38.0	1.9	3.1%
ETHYLBENZENE	PID	1.61	20	17.7	31.4	1.6	2.5%
TOLUENE	PID	1.85	20	14.1	35.6	1.8	3.8%
m&p-XYLENES	PID	1.91	40	17.9	73.5	1.8	3.8%
o-XYLENE	PID	1.56	20	19.1	30.6	1.5	1.9%
1,4 DIFLUORO BENZENE	PID	0.740	20	10.7	14.3	0.7	3.4%
4 BROMOFLUORO BENZENE	PID	2.28	20	20.8	45.0	2.3	1.3%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS