LABORATORY LOG

SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONCENTRATION	PREPARER	GC ASSAY	ANALYST	% REC.	INTENDED USE
2-25-91	0291100	2 L	EtOH:H_2O	.100 %	GM	0.0958	CGT	95.8	IR Certification
2-25	0291050	1 L		.050	GM	0.0491	LTA	98.2	
2-25	0291101	2 L		.100	GM	.0952		95.2	
2-25	0291102	2 L		.100	GM	.0914		91.4	
2-25	0291400	1 L		.400	GM	.3681		92.0	
2-26	0226100	2L		.100	LTA	.0994		99.4	
2-26	0226101	2L		.100	LTA	.0859		85.9	NOT USED
2-27	0227020	2L		.020	GM	.0203		101.4	↓
2-27	0227400	5 L		.400	GM	OFFSCALE		—	NOT USED
2-27	0227400	.5L		.400	GM	.3765		94.1	IR Certification
4-1	0401100	20L	↓	.100	GM	.1004	↓	100.4	↓

LABORATORY LOG

SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONCENTRATION	PREPARER	GC ASSAY	ANALYST	% REC.	INTENDED USE
4-19-91	0419020	1 L	EtOH:H_2O	.020%	LTA	0.0217	TM 4-25-91	108.5	
4-19-91	0419050	.5 L		.050	LTA	0.0514	TM 4-25-91	102.8	
4-19-91	0419400	.5L		.400	LTA	0.3747	LTA 4-23-91	93.7	
4-29-91	0429020	1L		.020	GM	0.0222	LTA 5-6	111.0	
4-29-91	0429050	.5L		.050		0.0514	LTA 5-6	102.2	
4-29-91	0429400	.5L		.400		.3986	LTA 5-6	99.7	
5-21-91	0517100	2.0L		.100		.1002	LTA ~~5-29~~ 5-27	100.2%	
5-21-91	0517400	.5L		.400		.4029	LTA ~~5-21~~ 5-27		
5-21-91	0509400	.5L		.400		.41552	LTA 5-21	103.9	
5-27-91	0509020	.5L		.020		.0215 ~~.0204~~ GM	LTA 5-27	107.5	
5-27-91	0509050	.5L		.050		.0499	LTA 5-27	99.8	

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
06-07-91	0606050	0.5 L	EtOH : H_2O	0.050%	GM	0.0503	LTA 06-07	100.6	Instrument Certification
	0620020	0.5L		0.020%	LTA	0.0191	LTA 06-21	95.5	
06-20-91	0620400	0.5L		0.400%	LTA	0.4161	LTA 06-21	104.0	
07-09-91	0701050	0.5L		0.050%	LTA	0.0509	JC	101.8	
07-09-91	0702400	0.5L		0.400%	LTA	0.4050% ~~0.4049~~ GM 8/19/92	JC	101.2	
07-25-91	0724020	0.5L		0.020%	GM	0.0176	JC	88.1	
07-25-91	*See 7/25 0724400	0.5L		0.400%	GM	0.3890	JC	91.2	
07-25-91	0715050	0.5L		0.050%	GM	0.0472 GM	JC	94.2	
08-22-91	0807100	2L		0.100%	LTA	0.1073	JC	107.3	NOT USED

LABORATC LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
08-22-91	0815100	20L	EtOH: H_2O	0.100	GM	0.1006	JC	100.6	DataMaster Certification
09-24-91	0924020	0.5L		0.020	TM	0.0208	JC	104.0	
09-24-91	0924050	0.5L		0.050	TM	0.0503	JC	106.0	
09-24-91	0924400	0.5L		0.400	TM	0.4236	JC	106.0	
11-07-91	#see 11/25 1030050	0.5L		0.050	TM	0.0514	TM	102.8	
11-07-91	1107020	0.5L		0.020	TM	0.0209	TM	104.5	
11-07-91	1030100	20.0L		0.100	TM	0.0510	TM	51.0	NOT USED
11-07-91	1107400	0.5L		0.400	TM	0.4077	TM	101.9	Data Master Certification
11-09-91	1107100	20.0L		0.100	TM	0.0963	TM	96.3	

LABORATY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
11-25-91	1030050	0.5 L	ETOH: H_2O	0.050	TM	0.0491	JC	98.2	DataMaster Certification
11-25-91	0724400	0.5L		0.400	GM	0.3518	JC	88.0	
11-26-91	1107100	20.0L		0.100	TM	0.0959	JC	95.9	
1-8-92	1030020	0.5L	ETOH: H_2O	0.020	TM	0.0161	JC	80.5	
1-8-92	1030050	0.5L	ETOH: H_2O	0.050	TM	0.0471	JC	94.2	
1-8-92	1107100	20.0L	ETOH: H_2O	0.100	TM	0.1006	JC	100.6	
1-9-92	~~0920440~~ 0924400	0.5L	ETOH: H_2O	.400	TM	0.3970	JC	99.2	
1-29-92	1030050	0.5L	ETOH: H_2O	0.050	TM	0.0478	JC	95.6	

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
02/19/92	0210020		$EtOH$ and H_2O	.020%	CT	0.0207	CT	103.5 %	IR Certification
02/20/92	0210020			.020%	CT	0.0194	TM (H.S.)	97.0	
02/24/92	0210020			.020%	CT	0.0190	TM	95.0	
02/27/92	0210020			.020%	CT	0.0198 / 0.0197	JC (H.S.)	99.0 / 98.5%	
02/19/92	0210050			.050%	CT	0.0514	CT	102.8	
02/20/92	0210050			.050%	CT	0.0461	TM (H.S.)	92.2	
02/24/92	0210050			.050%	CT	0.0487	TM	97.4	
02/27/92	0210050			.050%	CT	0.0519 / 0.0495	JC (H.S.)	103.8 / 99.0%	
02/19/92	0210100			.100%	CT	0.0999	CT	99.9	

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
12/20/92	0210100		EtOH and H_2O	.100%	CT	0.0927	TM (H.S.)	92.7	IR Certification
02/24/92	0210100			.100	CT	0.0930	TM	93.0	
02/27/92	0210100			.100	CT	0.0954 / 0.0952	JC (H.S.)	95.4 / 95.2%	
02/19/92	0210400			.400	CT	0.4250	CT	106.3	
02/20/92	0210400			.400	CT	0.3731	TM (H.S.)	93.4	
02/24/92	0210400			.400	CT	0.3977	TM	99.4	
02/27/92	0210400			.400	CT	0.4010 / 0.3992	JC (H.S.)	100.3 / 99.8%	
02/19/92	0116100			.100	CT	0.1011	CT	101.1	
02/24/92	0116100			.100	CT	0.0973	TM	97.3	

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
02/27/92	0116100		EtOH and H_2O	.100 %	CT	0.1036 / 0.1007	JC (H.S.)	103.6 / 100.7 %	IR CERTIFICATION
02/24/92	GUTH 0.100		↓	.100	—	0.1007	TM	100.7	
02/27/92	GUTH 0.100		↓	.100	—	0.1040 / 0.1024	JC (H.S.)	104.0 / 102.4%	
04/17/92	0412100	10 L	"	.100	GM	0.0962	TMG & GM (H.S.)	96.2 % ~~100.0~~	IR CERTIFICATION
04/18/92	0417020	500 mL	"	.020	GM	0.0185	"	92.5 %	"
04/18/92	0417050	500 mL	"	.050	GM	0.0488	"	97.6 %	"
04/18/92	0417400	500 mL	"	.400	GM	0.3971	"	99.3%	"
04/18/92	GUTH 0.100	500 mL	"	.100	TMG	0.0958	"	95.8%	"
05/05/92	0505100	10 L	"	.100	GM	0.0968	TM Heads	96.8 %	"

LABORATC LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
8/21/92	0810100	10.0 L	EtOH : H_2O	0.100%	TMG	0.0975	TMG	97.5 %	IR CERTIFICATION
8/21/92	0821400	0.5 L	"	0.400%	TMG	0.3947	TMG		"
8/21/92	0821050	0.5 L	"	0.050%	"	0.0463	"		"
8/21/92	0821020	0.5 L	"	0.020%	"	0.0189	"		"
12/1/92	121192	20.0L	"	0.100%	"	0.1017	"		"
1/24/93	0124400	0.5L	"	0.400	"	0.4080	"		"
3/4/93 1/24/93	0112050	0.5L	"	0.050	"	.0458	"		"
1/24/93	0124020	0.5L	"	0.020	"	.0189	"		"
3/4/93	121192	—	"	0.100	"	.0993	"		"
3/4/93	0124400	—	"	0.400	"	.4071	"		"
3/4/93	0124020	—	"	0.020	"	.0166	"		"
3/25/93	0324100	10.0L	"	0.100%	"	.0977	"		"
6/7/93	0607100	20.0L	"	0.100%	TMG"	.0967	TM	96.7%	"
7/7/93	0707050	0.5L	"	0.050%	TMG	.0475	TM		"
↓	0707400	0.5L	"	0.400%	"	.4025	"		"
↓	0707020	0.5L	"	0.020%	"	.0176	"		"
			▽						▽

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
9/15/93	0707020	~~.5~~ .5L	EtOH + WATER	.020%	TMG	.0155	TM		IR CERT.
9/15/93	0707050	↓		.050%	TMG	.0449	TM		
9/15/93	0707400	.5L		.400%	TMG	.4000	TM		
9/15/93	0915100	20.0L		.100%	TMG	.0980	TM		
12/6/93	1119020	.5L	EtOH + WATER	.020	TM	.0201	TM		
12/6/93	1119050	.5L	↓	.050	TM	.0471	TM		
12/6/93	1119100	20.0L		.100	TM	.1008	TM		
12/6/93	1119400	.5L		.400	TM	.4126	TM		
4/6/94	0406100	20.0L	EtOH + WATER	.100	TM	~~.0977~~ .0986	TM		IR cert
5/13/94	0512020	.5L	EtOH + WATER	.020	TMG	.0181	TM		IR CERT NEW soln
5/13/94	0512050	.5L	EtOH + WATER	.050	TMG	.0448	TM		↓

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
5.13.94	0512400	.5L	EtOH + H_2O	.400	TMG	.3893	TM		IR Cert (New)
6.16.94	0512020	↓	↓	.020	N/A	.0162	TM		Reanalyze ↓
6.16.94	0512050	↓	↓	.050	↓	.0481	TM		↓
6.16.94	0512400	↓	↓	.400	↓	.4111	TM		↓
6.29.94	0694100	20L	EtOH Water	.100	TMG	.0990	TM		QM soln
8.9.94	0512020	~~.4~~ .5L ↓	EtOH + Water	.020	N/A	.01332 ~~.01633~~	JC		Reanalyzed ↓
8.9.94	0512050	↓	↓	.050	↓	.04657	JC		↓
8.9.94	0512400	↓	↓	.400	↓	.39355	JC		↓
10.10.94	0920020	0.5L	↓	0.020	↓	.0178	CT		~~REANALYZE~~

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
10.10.94	0920050	0.5 L	EtOH + H_2O	0.050	N/A	0.0484	CT		REANALYZE
10.10.94	0920400	"	"	0.400	"	0.3917	CT		"
10.14.94	1094100	20 L	"	0.100	CT	0.0994	CT		QM SOLN
1/19/95	0195020	0.5L	EtOH	.020	TMG	.0189	TM		Sim soln
1/19/95	0195050	~~.5~~ 0.5L	"	.050	"	.0458	"		"
1/19/95	0195400	0.5L	"	.400	"	.4028	"		"
1/19/95	0195100	20L	"	.100	"	.0999	"		"
2/14/95	0195020	"	EtOH	.020	TMG	.0182	SC ~~TM~~		Sim soln
2/14/95	0195050	"	"	.050	"	.0482	"		"

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
~~2/14/95~~	~~0195400~~	~~1~~	~~EtOH~~	.400	~~TML~~	.4275	JC		
3/14/95	0195020	—	EtOH	.020	—	.0169	TM	—	
3/14/95	0195050	—	"	.050	—	.0453 ~~.0556~~	TM	—	
3/14/95	0395100	20L	EtOH	.100	TM	.0996	TM	—	
3/14/95	0195400	—	EtOH	.400	—	.3843	TM	—	
5/3/95	0495020	500ml	EtOH + H_2O	.020	TML	.01790	CT	—	
5/3/95	0495050	500ml	"	.050	"	.04954	CT		
5/3/95	0495400	500ml	"	.400	"	.40738			
	0595100	20L	"	.100	TML	.1014	CT		

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
8/22/95	0895100	10L	EtOH + H_2O	.100	CT	.0966	TM		
9/95	0995020	500ml ~~1000ml~~		.020	TMC	.01902	CT		
9/95	0995050			.050		.04965			
9/95	0995400			.400		.40619			
10/95 3	0995050	re ana	EtOH + H_2O	.050	TM	.04814	JC		
10/95 3	0995020	re ana		.020		.01841			
10/3/95	0995400	re ana		.400		.38554			
10/9/95	1095100	20L	EtOH + H_2O	.100	CT	.0992	CT		
1	0995050	—	"	.05	TG	.0463	CT		

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
10/9/95	0995400	—	WATER ~~ETOH~~	.400	TG	.38214	CT		
10/9/95	1195020	500ml	"	.020	CT	.0202	CT		
11/27/95	1195020	—	"	.020	CT	.0188	CT		
12/5/95	1195020	—	"	.020	CT	.0181	JC		
12/5/95	0995050	—	"	.050	TG	.04596	JC ~~TG~~		
12/5/95	0995400	—	"	.400	TG	.39009	JC		
1/96	0196100	20L	WATER ~~ETHE~~ ETOH	.100	TMG	.0963	CT		
1/96	0196020	500ml	H_2O ETOH	.020	TMG	.0195	CT	.0195	
1/96	0196050	500ml	H_2O ETOH	.050	TMG	.0499	CT		

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	AVG ~~% REC.~~	INTENDED USE
1/96	0196400	500ml	WATER H_2O + EtOH	.400	TMG	.3969	CT	.3969	
2/7/96	0196020	500ml	"	.020	TMG	.0203	JC	.0199	
2/7/96	0196050	500ml	"	.050	TMG	.0478	JC	.0489 ~~.0485~~	
2/7/96	0196400	500ml	"	.400	TMG	.4109	JC	.4039	
2/15/96	0196020	500ml	"	.020	TMG	.0197	CT	.0198	
2/15/96	0196050	500ml	"	.050	TMG	.0476	CT	.0484	
2/15/96	0196400	500ml	"	.400	TMG	.4124	CT	.4067	
3/11/96	0196020	500ml	"	.020	TMG	.0155	CT	77.5	
3/11/96	0196050	500ml	"	.050	TMG	.0503	CT	100.6	

LABORATORY LOG
SIMULATOR SOL ONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
3/11/96	0196400	500 ml	H_2O+EtOH	.400	TMG	.4124	CT		SIM SOLN
4/12/96	0396100	20L	"	.100	CGT	.0970	CT	97.0%	RM SOLN
4/12/96	0396020	500 mL	"	~~.0200~~	CGT	.0174	CT	87.0%	SIM SOLN
4/12/96	0396050	"	"	.050	CGT	.0486	CT	97.2%	"
4/12/96	0396400	"	"	.400	CGT	.4088	CT	102.2%	"
5/07/96	0396020	"	"	.020	CGT	.0170	CT	.0172	"
5/07/96	0396050	"	"	.050	CGT	.0454	CT	.0470	"
5/07/96	0396400	"	"	.400	CGT	.3711	CT	.3900	"
5/30/96 ~~5/11/96~~	0596100	20L	"	.100	CGT	.0989 ~~.0995~~	CT	98.9 ~~99.5~~	RM SOLN

LABORATORY LOG
SIMULATOR SO[illegible]IONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
5/30	0596020	500ml	EtOH + H_2O	.020	TMG	.019	CT	95.0	SIM SOLN
5/30	0596050	500ml	"	.050	TMG	.0466	CT	93.2	"
5/30	0596400	500ml	"	.400	TMG	.3977	CT	99.4	"
7/22	0596100	20L	"	0.100	CGT ~~IM~~	.1040	TM	104.0	RM
7/22	0796020	2L	"	0.020	TM	.0195	TM	97.5	SIM SOLN
7/22	0796050	2L	"	.050	TM	.0497	TM	99.4	"
7/22	0796400	2L	"	.400	TM	.4131	TM	103.3	"
7/30	0596400	2L	"	.400	TMG	.3857	CT	96.4	"
7/30	0796100	20L	"	.100	CGT	.1020	CT	102.0	RM

LABORATORY LOG
SIMULATOR SO[illegible]IONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY (Corrected % EtOH)	ANA	% REC.	INTENDED USE
7/31	0796400	2L	EtOH + H_2O	.400	CGT	.4247	CT	106.2	SIM SOLN
9/19	091900	2L	EtOH + H_2O	.100	TM	.1035	9/19/96 JPC	103.5	Sim soln
9/30/96	0930020	500 ml	EtOH (Lot# 072496 stock) + H_2O	0.02%	JPC	0.0194 ~~0.0193~~ JPC	10/1/96 JPC	96.5	
9/30/96	0930050	500ml	EtOH (Lot# 072496 stock) + H_2O	0.05%	JPC	0.0511		102.2	
9/30/96	0930400	500ml	EtOH (Lot# 072496 stock) + H_2O	0.40%	JPC	0.4076		101.9	
10/21/96	~~09~~ 1096020	1000ml	EtOH (Lot 102196) + H_2O	0.02%	TM	0.0188	10/21/96 JPC	94.0	sim soln
	1096050	1000ml	EtOH (Lot 102196) + H_2O	0.05%	TM	0.0475		95.0	
	1096400	1000ml	EtOH (Lot 102196) + H_2O	0.4%	TM	0.3998		99.95	
10/21/96	102196	1000 ml	77ml pure EtOH	stock	TM	—	—	—	stock EtOH soln

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
~~10~~ 11/5/96	11059610	20 L	EtOH	0.1	JPC	0.0975	JPC	97.5	external sim soln
12/5/96	12059602	1 L	"	0.02	JPC	0.0183	JPC	91.5	sim soln
	12059605	1 L	"	0.05	JPC	0.0475	JPC	95.0	
	12059610	1 L	"	0.4 ~~0.3~~	JPC	0.3986	JPC	99.65	
12/30/96	12309610	18 L	"	0.1	TM	0.0952	JPC	95.2%	[illegible] 1/2/97 [illegible] soln (R11)
1/3/97	1039710	20L	"	0.1	RJD	0.1016	JPC	101.60%	external sim soln
1/15/9	Lot # 10397100	[illegible]L	"	0.1	RJD	0.1026	JPC	102.6%	external sim soln
1/21/9		[illegible]L	"	0.100	[illegible]	0.1200 0.1215 $\bar{x}$ = 0.1208	JPC	120.8%	~~external sim soln~~ [illegible] not for use JPC
1/30/97	13097100	23 l	"	0.100	[illegible]	0.1071	JPC	107.1%	external sim soln

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
2/11/97	21197020	1L	ethanol	0.02%	JPC	~~0.01~~ JPC 0.0192%	2/11/97 JPC		linearity
"	21197050	1L	"	0.05%	JPC	0.0467%	"		"
"	21197400	1L	"	0.40%	JPC	0.3894%	"		"
2/24/97	22497100	20L	Ethanol 31 mL/20L	0.10%	[signature]	0.0974%			
	224B9710	20L	"	"	[signature]	0.0983%			
5/20/97	05209710	20L	ethanol	0.10%	TM	0.0997%	5/21/97 JPC		
5/20/97	05209702	1L	"	0.02%	TM	0.0183%	"		
7/14/97	07149710	20L	EtOH/H2O	0.10	[signature]	0.1001%	JPC 7/14/97 ↓		
7/11/97	07119740	1L	Ethanol/H2O	0.40%	TM	0.4021%	↓		
~~7/11/97~~	~~07119740~~								

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
07/11/97	071197050	1 L	Ethanol/H2O	0.05%	TM	0.0478%	JPC 7/14/97		
07/11/97	071197020	1 L	Ethanol/H2O	0.02%	TM	0.0188%	JPC 7/14/97		
09/08/97	090897100	20 L	Ethanol/H2O	0.100%	RJD	0.0981	gm		Per. Fault ✓ Sim replacement Solution.
10/15/97	101597100	20L	Ethanol/H2O	0.100%	RJD	.1009	TM		Routine performance check; DM calibration
10/20/97	102097200	1 L	ETOH/H2O	.200%	TM				
10/27/97	10279702	1 L	ETOH/H2O	0.020%	RJD	0.0200	JTH		linearity check
10/27/97	10279705	1 L	ETOH/H2O	0.050%	RJD	0.0521	JTH		"
10/27/97	10279740	1 L	ETOH/H2O	0.40%	RJD	0.4045	JTH		"
11.20.97	112097100	20L	ETOH/H2O	0.100%	RJD	0.106	BD	NOT used	

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
11/26/97	112697100	20 L	EtOH(aq)	0.10	RJD	0.0985 H.S.	RJD		CALIB. & Ext'l Std.
11/28/97	112897400	2 L	EtOH(aq)	0.40	RJD	0.4028 H.S.	RJD		Linearity Check
11/28/97	112897020	2 L	EtOH(aq)	0.02	RJD	.0199 H.S	RJD		Linearity Check
11/28/97	112897050	2 L	EtOH(aq)	0.05	RJD	.0486 H.S.	RJD		Linearity check
12/26/97	122697020	1 L	EtOH(aq)	0.02	RJD	.0210 HS	RJD		Dm Linearity Check Soln.
12/26/97	122697050	1 L	EtOH(aq)	0.05	RJD	.0484 HS	RJD		"
12/26/97	122697400	1 L	EtOH(aq)	.40	RJD	.3864 HS	RJD		"

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LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
02/02/98	98-01-100	20L	EtOH/H_2O	0.10%	RJD	0.1040	RJD	104%	DM Extl Std
02/02/98	98-02-100	50L	EtOH/H_2O	0.10%	RJD	0.1016	RJD	101.6%	DM Extl Std/DM calib
02/02/98	98-03-020	2L	EtOH/H_2O	0.02%	RJD	0.0192%	RJD	96%	DM linearity check
Prep. 12/24/97	12269702I	1L	EtOH, acetone, H_2O	.10 etoh .02 >=0	RJD	—	—	—	DM Interference check
Prep 12/24/97	12269705A	1L	acetone (aq)	.05%	RJD	—	—	—	DM Calibration
02/05/98	98-04-100	50L	etOH (aq)	.10%	RJD	0.0997 HS	RJD	99.7%	DM calib Routine Perf Ver
02/07/98	98-05-100	50L	etOH(aq)	.10%	RJD	.1026 HS	RJD	102.6%	DM calib Rout. Perf. Check
02/17/98	98-06-020	1L	etOH(aq)	0.02%	RJD	.0227%	RJD	110%	DM Lin Checks
03/4/98	98-07-020	1L	etOH(aq)	0.02%	RJD	.0224%	RJD		DM Lin Checks

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
4-08-98	98-08-020	1 l	EtOH/H2O	.02%	RJP	.0215% H5	RJP		DM lin check
"	98-09-050	1 l	EtOH/H2O	.05%	RJP	.0498% H5	RJP		DM Lin Check
"	98-10-400	1 l	EtOH/H2O	.400%	RJP	.3965% H5	RJP		DM lin Check
"	98-11-05A	1 l	acetone/H2O	.05% v/v	RJP	—	—		DM cal prep.
4-24-98	98-12-100	20 l	EtOH/H2O	.100	RJP	.1028 H5	RJP		DM cal & lin. check
6/6/98	98-13-100	20 l	EtOH/H2O	.100	RJP	.1048 H5	RJP		DM cal & lin. check
6/6/98	98-14-020 ~~100~~	2L	↓	.020	↓	.0231 H5	↓		↓
6/6/98	98-15-050	1L		.050		.0549 H5			
6/6/98	98-16-400	1L		.400		.4065 H5			

LABORATORY LOG
SIMULATOR SOLUTIONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
6/24/98	98-17-02A	500ml	.10 EtOH/.1 >=0	.02	JM				DM Acetone interference
8/5/98	98-18-100	50L	etOH/H20	.100	RJD	.0971	RJD	97.1%	DM Calib, Lin check
8/11/98	98-19-050	2L	EtOH/H2O	.05	FED MANAZI	.0465	JH	~~107~~ CB 93.0%	DM Linearity
9/11/98	98-20-400	1L	EtOH/H2O	0.40	Cheryl Brinkman	0.3967	JH	99.2%	DM Linearity
9/11/98	98-21-050	1L	EtOH/H2O	0.05	Cheryl Brinkman	0.0491	JH	98.2%	DM Linearity
9/11/98	98-22-020	2L	EtOH/H2O	0.02	Cheryl Brinkman	0.0205	JH	102.5%	DM Linearity
9/29/98	98-23-020	2L	EtOH/H2O	0.02	RJD	.0237	RJD	118%	DM Linearity
10/22/98	98-~~18~~ 24 CB-02A	1L	Acetone/0.1% EtOH	0.02	CB	N/A	N/A	N/A	DM Acetone Interference
10/22/98	98-~~18~~ 25 CB-05A	1L	Acetone/H2O	0.05	CB	N/A	N/A	N/A	DM Acetone Calibration

LABOR[illegible]RY LOG
SIMULATOR SOLU[illegible]ONS PREPARATION

DATE	LOT #	VOLUME PREPARED	COMPONENTS	TARGET CONC	PREPARER	GC ASSAY	ANA	% REC.	INTENDED USE
10/22/98	98-26-400	1L	EtOH/H_2O	0.40	CB	0.3976	JH	99.4	DM Linearity
10/22/98	98-27-020	2L	EtOH/H_2O	0.02	CB	0.0206	JH	103.0	DM Linearity
11/13/98	98-29-020	2L		0.02	JPC	0.0201	RSD	100.5%	DM Linearity Check
11/13/98	98-30-050	1L JPC ~~2L~~		0.05	JPC	0.0494	RSD	98.8%	"
11/13/98	98-31-400	1L		0.40 JPC ~~0.04~~	JPC	0.401N	RSD	100.4%	"
11/13/98	98-32-100	20L	↓	0.10	JPC	0.1014	RSD	101.4%	DM Calib; extnl std. sim soln.
12/22/98	98-33-100	50L	EtOH/H_2O	.10	CB	.0998	RSD	99.8%	"
12/29/98	98-34-100	50L	"	.10	RSD	.1018	RSD	101.8%	"
1/6/99	99-01-100	50L	"	0.10	CB	0.0999		99.9%	Sim Solution for D.M.

VT Department of Health Laboratory

SIMULATOR SOLUTION PREPARATION LOG

Prep. Date	Lot identification	Volume prepared	Solution Components	Target Conc.(s)	Prepared by	GC assay Results	Analyst / Date of analysis	Intended use
~~4/7/99~~ 4/8/99 CB	99-02-020	2L	Ethanol/H_2O	0.02%	CB	0.0216%		Linearity Sim. Solutions
4/7/99	99-03-050	2L	↓	0.05%	CB	0.0540%		↓
4/7/99	99-04-400	2L	↓	0.40%	CB	0.4282%		↓
4/7/99	99-05-05A	1L	Acetone/H_2O	0.05%	CB	N/A	N/A	Acetone Calibration
4/27/99	99-06-02A	1L	Acetone/0.1% EtOH	0.02%	CB	N/A	N/A	Acetone Interference
4/27/99	99-007-400	1L	Ethanol/H2O	0.40%	RJD	.3984	RJD 4/27	Dm. Linearity check
4/30/99	99-08-050	500mL	Ethanol/H2O	.050%	~~RJD~~	.0510	JHH 5/5	Dm Linearity check
6/1/99	99-09-020	2L	Ethanol/H2O	.02%	CB	.0194%	RJD 6/2	Dm lin. check

VT Department of Health Laboratory

SIMULATOR SOLUTION PREPARATION LOG

Prep. Date	Lot identification	Volume prepared	Solution Components	Target Conc.(s)	Prepared by	GC assay Results	Analyst / Date of analysis	Intended use
6/1/99	99-10-050	1 L	EtOH / H_2O	.05 %	CB	.0521 %	RJD 6/2/99	DM Lin. Check
6/1/99	99-11-100	1 L	EtOH / H_2O	.10 %	CB/RJD			DM Calib/ Lin Check
6/1/99	99-12-400	1 L	EtOH / H_2O	.40 %	CB	.3984 %	RJD 6/2/99	DM Lin. Check
6/1/99	99-13-100	20L	EtOH/H_2O	0.10 %	CB	0.0996 %	JH/RD 6/	DM Calibration & Linearity Check
7/23/99	99-14-02A	1L	Acetone / 0.1% EtOH	0.02 %	CB			DM Acetone Interference
7/23/99	99-15-05A	1L	Acetone/H_2O	0.05 %	CB			DM Acetone Calibration
7/23/99	99-16-020	2L	EtOH/H_2O	0.02 %	CB	0.0198 %		DM Linearity Solution
7/23/99	99-17-050	2L	EtOH/H_2O	0.05 %	CB	0.0485 %		DM Linearity Solution

VT Department of Health Laboratory

SIMULATOR SOLUTION PREPARATION LOG

Prep. Date	Lot identification	Volume prepared	Solution Components	Target Conc.(s)	Prepared by	GC assay Results	Analyst / Date of analysis	Intended use
8/9/99	99-18-100	50 L	EtOH/H_2O	0.10 %	CB	0.1009		DM Calibration/ Linearity Solution
12/27/99	00-01-100	20 L	EtOH/H_2O	0.10 %	CB	0.1001		
12/27/99	00-02-100	50 L	EtOH/H_2O	0.10 %	CB	0.1005		
12/28/99	00-03-020	2 L	EtOH/H_2O	0.02 %	CB	0.0194		
12/28/99	00-04-050	1 L	EtOH/H_2O	0.05 %	CB	0.0473		
12/28/99	00-05-400	1 L	EtOH/H_2O	0.40 %	CB	0.4111		
12/28/99	00-06-02A	1 L	Acetone 0.02% in 0.1% EtOH	0.02 %	CB			
12/28/99	00-07-05A	1 L	Acetone 0.05% in H_2O	0.05 %	CB			

VT Department of Health Laboratory

SIMULATOR SOLUTION PREPARATION LOG

Prep. Date	Lot identification	Volume prepared	Solution Components	Target Conc.(s)	Prepared by	GC assay Results	Analyst / Date of analysis	Intended use
1/7/2000	00-08-100	50L	EtOH/H_2O	0.10%	CB	0.1008		DM Calibration
1/7/00	00-09-100	20L	EtOH/H_2O	0.10%	CB	0.1007		DM Calibration
6/7/00	00-10-020	2L	EtOH/H_2O	0.02%	CB	.02022% H.S.	6/13/00 (RJ)	DM Calibration + Linearity
6/7/00	00-11-050	1L	EtOH/H_2O	0.05%	CB	.04975% HS	6/13/00 (RJ)	↓
6/7/00	00-12-400	1L	EtOH/H_2O	0.40%	CB	.38819% H.S.	6/13/00 (RJ)	↓
6/7/00	00-13-02A	1L	Acetone (0.02%) in 0.1% EtOH	0.02%	CB	N/A	N/A	Acetone Interference
6/7/00	00-14-05A	1L	Acetone (0.05%) in H_2O	0.05%	CB	N/A	N/A	Acetone Calibration
6/8/00	00-15-100	50L	EtOH/H_2O	0.10%	CB	.1005	6/15 BAS	DM. Calibration & External Std.

VT Department of Health Laboratory

SIMULATOR SOLUTION PREPARATION LOG

Prep. Date	Lot identification	Volume prepared	Solution Components	Target Conc.(s)	Prepared by	GC assay Results	Analyst / Date of analysis	Intended use
10/31/00	00-16-100	20L	EtOH/H2O	0.10% $_{HS}$	RJD	0.1012	BAS 10/31/00	DM calibration & Extnl Std.
11/3/00	00-17-02A	1L	Acetone (0.02%) in 0.1% EtOH	0.02%	CB	N/A	N/A	Acetone Interference
11/3/00	00-18-05A	1L	Acetone (0.05%) in Water	0.05%	CB	N/A	N/A	Acetone Calibration
11/3/00	00-19-100	50L	0.1% EtOH in Water	0.10%	CB	0.1013	BAS 11/22/00	DM Calibration & External Std.
01/04/01	01-01-100	20L	0.17 EtOH (aq)	0.107	RJD	0.1024%	RJD/JHH 01.09.01	DM Cal; Extnl Std.
01/24/01	01-02-100	50L	0.1% EtOH (aq)	0.10%	RJD	0.1029%	RJD/JHH	DM cal; Extnl Std
2/20/01	01-03-02A	1L	0.02% Acetone in 0.1% EtOH	0.02%	CB	N/A	N/A	Acetone Interference Check
2/20/01	01-04-05A	1L	Acetone in Water	0.05%	CB	N/A	N/A	Acetone Calibration