

Assay Technology Inc - Sampling Guide

- Indicates the badge / chemical combination we recommend.

Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com. Information in this table can change without notice.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (ml/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
1,1,1,2-Tetrafluoroethane #	811-97-2	549AT #	549AT Badge	0.670			1.5 PPM	2		10	AT L-OV (GC/FID)	Freon	HFC-134a	Not validated on the 546, 566, 525 nor 521 badges. Sampling rate has been lab verified.
1,1,1,3,3-Pentafluoropropane #	460-73-1	549AT #	549AT Badge	0.610			0.62 PPM	1		10	AT L-OV (GC/FID)	Freon		Not validated on the 546, 566, 525 nor 521 badges. Sampling rate has been lab verified.
1,1,1-Trichloroethane #	71-55-6	546AT #	546AT Badge	1.98	OSHA 350 PPM		0.58 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methylchloroform	Sampling rate has been lab verified.
1,1,1-Trichloroethane #	71-55-6	566AT	566AT Badge	7.93	OSHA 350 PPM		0.14 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methylchloroform	Sampling rate has been lab verified.
1,1,1-Trichloroethane #	71-55-6	46-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 350 PPM		0.011 PPM	3	10	6	AT L-OV (GC/FID)	OV List A	Methylchloroform	
1,1,1-Trichloroethane #	71-55-6	525AT	525AT Badge	60.3	OSHA 350 PPM		0.019 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methylchloroform	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
1,1,2-Trichloroethane	79-00-5	566AT	566AT Badge	7.58	OSHA 10 PPM		0.10 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1,2-Trichloroethane #	79-00-5	546AT #	546AT Badge	1.90	OSHA 10 PPM		0.40 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1,2-Trichloroethane	79-00-5	525AT	525AT Badge	57.6	OSHA 10 PPM		0.013 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1,2-Trichlorotrifluoroethane #	76-13-1	546AT #	546AT Badge	1.67	OSHA 1000 PPM		0.57 PPM	3.5		6	AT L-OV (GC/FID)	OV List A	CFC 113	
1,1,2-Trichlorotrifluoroethane #	76-13-1	566AT	566AT Badge	6.59	OSHA 1000 PPM		0.14 PPM	3.5		6	AT L-OV (GC/FID)	OV List A	CFC 113	
1,1,2-Trichlorotrifluoroethane	76-13-1	525AT	525AT Badge	58.4	OSHA 1000 PPM		0.016 PPM	3.5		6	AT L-OV (GC/FID)	OV List A	CFC 113	
1,1-Dichloroethane	75-34-3	546AT	546AT Badge	2.30	OSHA 100 PPM		0.45 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1-Dichloroethane #	75-34-3	46-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.010 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
1,1-Dichloroethane #	75-34-3	566AT #	566AT Badge	9.22	OSHA 100 PPM		0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1-Dichloroethane	75-34-3	525AT	525AT Badge	76.4	OSHA 100 PPM		0.015 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,2,4-Trimethylbenzene	95-63-6	525AT	525AT Badge	59.5			0.0071 PPM	1		6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze on list C chemicals.
1,2,4-Trimethylbenzene #	95-63-6	566AT #	566AT Badge	8.36			0.051 PPM	1		6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze on list C chemicals.
1,2,4-Trimethylbenzene	95-63-6	546AT	546AT Badge	2.09			0.20 PPM	1		6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze on list C chemicals.
1,2,4-Trimethylbenzene	95-63-6	46-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0042 PPM	1	10	6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze on list C chemicals.
1,2-Dibromoethane #	106-93-4	566AT #	566AT Badge	6.67			0.12 PPM	3		6	AT L-OV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dibromoethane	106-93-4	546AT	546AT Badge	1.67			0.48 PPM	3		6	AT L-OV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dibromoethane	106-93-4	525AT	525AT Badge	71.2			0.018 PPM	3		6	AT L-OV (GC/FID)	OV List B	Ethylene Dibromide	
1,2-Dichlorobenzene #	95-50-1	566AT #	566AT Badge	7.55	OSHA 50 PPM	50 PPM	0.046 PPM	1		6	AT L-OV (GC/FID)	OV List B		
1,2-Dichlorobenzene #	95-50-1	546AT	546AT Badge	1.89	OSHA 50 PPM	50 PPM	0.18 PPM	1		6	AT L-OV (GC/FID)	OV List B		
1,2-Dichlorobenzene	95-50-1	525AT	525AT Badge	56.5	OSHA 50 PPM	50 PPM	0.0061 PPM	1		6	AT L-OV (GC/FID)	OV List B		
1,2-Dichloroethane	107-06-2	546AT	546AT Badge	2.31	OSHA 50 PPM	OSHA CEILING 100 PPM	0.45 PPM	2		6	AT L-OV (GC/FID)	OV List A	EDC	Sampling rate has been lab verified.
1,2-Dichloroethane #	107-06-2	566AT #	566AT Badge	9.22	OSHA 50 PPM	OSHA CEILING 100 PPM	0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A	EDC	Sampling rate has been lab verified.
1,2-Dichloroethane #	107-06-2	46-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 50 PPM	OSHA CEILING 100 PPM	0.010 PPM	2	10	6	AT L-OV (GC/FID)	OV List A	EDC	
1,2-Dichloroethane	107-06-2	525AT	525AT Badge	63.5	OSHA 50 PPM	OSHA CEILING 100 PPM	0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A	EDC	Sampling rate has been lab verified.
1,2-Dichloroethylene #	540-59-0	546AT #	546AT Badge	2.33	OSHA 200 PPM		0.45 PPM	2		6	AT L-OV (GC/FID)	OV List A	1,2-DCE, 1,2-Dichloroethene	This is a sum of cis-1,2-Dichloroethylene (CAS # 156-59-2) and trans-1,2-Dichloroethylene (CAS # 156-60-5)
1,2-Dichloroethylene	540-59-0	566AT	566AT Badge	9.32	OSHA 200 PPM		0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A	1,2-DCE, 1,2-Dichloroethene	This is a sum of cis-1,2-Dichloroethylene (CAS # 156-59-2) and trans-1,2-Dichloroethylene (CAS # 156-60-5)
1,2-Dichloroethylene	540-59-0	525AT	525AT Badge	75.8	OSHA 200 PPM		0.014 PPM	2		6	AT L-OV (GC/FID)	OV List A	1,2-DCE, 1,2-Dichloroethene	This is a sum of cis-1,2-Dichloroethylene (CAS # 156-59-2) and trans-1,2-Dichloroethylene (CAS # 156-60-5)
1,2-Dichloropropane #	78-87-5	566AT #	566AT Badge	7.98			0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propylene Dichloride	
1,2-Dichloropropane	78-87-5	525AT	525AT Badge	60.8			0.015 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propylene Dichloride	
1,3-Butadiene	106-99-0	546AT	546AT Badge	3.20	OSHA 1 PPM	OSHA STEL 5 PPM	0.18 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		It is not recommended that 1,3-Butadiene be collected on the 521/525 badge.
1,3-Butadiene #	106-99-0	566AT #	566AT Badge	12.8	OSHA 1 PPM	OSHA STEL 5 PPM	0.044 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		It is not recommended that 1,3-Butadiene be collected on the 521/525 badge.
1,3-Butadiene	106-99-0	46-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1 PPM	OSHA STEL 5 PPM	0.0057 PPM	0.6	10	6	AT L-OV (GC/FID)	OV List A		It is not recommended that 1,3-Butadiene be collected on the 521/525 badge.
1,3-Butadiene	106-99-0	525AT	525AT Badge	85.1	OSHA 1 PPM	OSHA STEL 5 PPM	0.0066 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
1,3-Diaminopropane	109-76-2	585AT	585AT Badge	8.60			0.080 PPM	1		10	MOD OSHA 60	Amine		
1,3-Dioxolane	646-06-0	566AT	566AT Badge	10.2			0.067 PPM	1		6	AT L-OV (GC/FID)	OV List A		
1,3-Dioxolane	646-06-0	546AT	546AT Badge	2.60			0.26 PPM	1		6	AT L-OV (GC/FID)	OV List A		
1,4-Butanediamine	110-60-1	585AT	585AT Badge	7.87			0.073 PPM	1		10	MOD OSHA 60	Amine		
1,4-Dichlorobenzene #	106-46-7	566AT #	566AT Badge	7.55	OSHA 75 PPM		0.046 PPM	1		6	AT L-OV (GC/FID)	OV List B	p-Dichlorobenzene	
1,4-Dichlorobenzene	106-46-7	546AT	546AT Badge	1.89	OSHA 75 PPM		0.18 PPM	1		6	AT L-OV (GC/FID)	OV List B	p-Dichlorobenzene	
1,4-Dichlorobenzene	106-46-7	525AT	525AT Badge	56.5	OSHA 75 PPM		0.0061 PPM	1		6	AT L-OV (GC/FID)	OV List B	p-Dichlorobenzene	
1,4-Dioxane	123-91-1	546AT	546AT Badge	2.44	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
1,4-Dioxane	123-91-1	566AT	566AT Badge	9.77	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
1,4-Dioxane	123-91-1	46-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.012 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
1,4-Dioxane #	123-91-1	525AT #	525AT Badge	60.1	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.019 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
1,5-Diaminocentane	462-94-2	585AT	585AT Badge	7.29			0.068 PPM	1		10	MOD OSHA 60	Amine		
1-Methyl-2-Pyrrolidone	872-50-4	546AT	546AT Badge	2.33	CAL 1 PPM		2.4 PPM	11		6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Methyl-2-Pyrrolidone	872-50-4	566AT	566AT Badge	9.31	CAL 1 PPM		0.61 PPM	11		6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Methyl-2-Pyrrolidone	872-50-4	46-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	CAL 1 PPM		0.057 PPM	11	10	6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Methyl-2-Pyrrolidone #	872-50-4	525AT #	525AT Badge	60.3	CAL 1 PPM		0.086 PPM	11		6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Propanol	71-23-8	525AT	525AT Badge	83.5	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.016 PPM	1.6		6	AT L-OV (GC/FID)	OV List A	n-Propanol, Propyl Alcohol	
1-Propanol	71-23-8	566AT	566AT Badge	11.8	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.11 PPM	1.6		6	AT L-OV (GC/FID)	OV List A	n-Propanol, Propyl Alcohol	
1-Propanol #	71-23-8	546AT #	546AT Badge	2.96	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.46 PPM	1.6		6	AT L-OV (GC/FID)	OV List A	n-Propanol, Propyl Alcohol	
1-Propanol	71-23-8	46-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.014 PPM	1.6	10	6	AT L-OV (GC/FID)	OV List A	n-Propanol, Propyl Alcohol	
2,2,3,3-Tetramethylsuccinonitrile	3333-52-6	525AT	525AT Badge	57.3			0.020 PPM	3		10	AT L-OV	OV List		
2,2,4-Trimethylpentane	540-84-1	525AT	525AT Badge	44.7			0.020 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2,4-Trimethylpentane	540-84-1	566AT	566AT Badge	8.60			0.16 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2,4-Trimethylpentane	540-84-1	546AT	546AT Badge	2.21			0.60 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2-Dimethylbutane	75-83-2	566AT	566AT Badge	9.90			0.12 PPM	2		10	AT L-OV (GC/FID)	OV List A	Hexane Isomers	
2,3-Dimethylbutane	79-29-8	566AT	566AT Badge	9.90			0.12 PPM	2		10	AT L-OV (GC/FID)	OV List A	Hexane Isomers	
2,4-TDI	584-84-9	46-9002	Cassette, GFF w/ 1-PP	1.0 L/min		OSHA CEILING 0.02 PPM	0.00029 PPM	0.1	240	10	MOD OSHA 42	Isocyanates	Toluene-2,4-Diisocyanate	Sample openface (See method)
2,6-Dichloropyridine	2402-78-0	525AT	525AT Badge	59.8			0.0063 PPM	1		10	AT L-OV (GC/FID)	OV List A	Phenox	
2,6-Dichloropyridine	2402-78-0	566AT	566AT Badge	7.50			0.046 PPM	1		10	AT L-OV (GC/FID)	OV List A	Phenox	
2,6-TDI	91-08-7	46-9002	Cassette, GFF w/ 1-PP	1.0 L/min		OSHA 150 PPM	0.000015 PPM	0.05	240	10	MOD OSHA 42	Isocyanates	Toluene-2,6-Diisocyanate	Sample openface (See method)
2-Butanol	78-92-2	546AT	546AT Badge	2.67	OSHA 150 PPM		0.18 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	sec-Butyl Alcohol	
2-Butanol #	78-92-2	566AT #	566AT Badge	10.7	OSHA 150 PPM		0.046 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	sec-Butyl Alcohol	
2-Butanol	111-76-2	546AT	546AT Badge	2.11	OSHA 50 PPM	NIOSH STEL 150 PPM	0.19 PPM	5		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
2-Butoxyethanol #	111-76-2	566AT #	566AT Badge	8.43	OSHA 50 PPM		0.26 PPM	5		6	AT L-OV (GC/FID)	OV List A	Butyl Cellosolve	Sampling rate has been lab verified.
2-Butoxyethanol	111-76-2	46-001	Tube, Charcoal											

Assay Technology Inc - Sampling Guide

Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com. Information in this table can change without notice.

OSP = Organic Solvent Panel. See X525-25AT

- Indicates the badge / chemical combination we recommend.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
2-Methylpentane	107-83-5	566AT	566AT Badge	9.90			0.12 PPM	2		6	AT L-OV (GC/FID)	OV List B	Hexane Isomers	
2-Methylpentane	107-83-5	546AT	546AT Badge	2.50			0.47 PPM	2		6	AT L-OV (GC/FID)	OV List B	Hexane Isomers	
2-Pentanone #	107-87-9	546AT #	546AT Badge	2.47	OSHA 200 PPM		0.17 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
2-Pentanone	107-87-9	566AT	566AT Badge	9.89	OSHA 200 PPM		0.042 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
2-Pentanone	107-87-9	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.0041 PPM	0.7	10	6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
2-Pentanone	107-87-9	525AT	525AT Badge	66.6	OSHA 200 PPM		0.0062 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
3-Methylpentane	96-14-0	566AT	566AT Badge	9.90			0.12 PPM	2		10	AT L-OV (GC/FID)	OV List A	Hexane Isomers	
3-Methylpentane	96-14-0	525AT	525AT Badge	66.6			0.018 PPM	2		10	AT L-OV (GC/FID)	OV List A	Hexane Isomers	
4-Phenyl Cyclohexene #	4994-16-5	546AT #	Cassette, GFT w/ 1-, PP	1.0 L/min	NIOSH 0.005 PPM	OSHA CEILING 0.02 PPM	0.00001 PPM	0.4	240		AT L-OV (GC/FID)	OV List A	Isocyanates	Sample openface (See method)
4-Phenyl Cyclohexene	4994-16-5	566AT	566AT Badge	7.28			0.13 PPM	3		6	AT L-OV (GC/FID)	OV List A	Rug Odor	
4-Phenyl Cyclohexene	4994-16-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.00097 PPM	3	10	6	AT L-OV (GC/FID)	OV List A	Rug Odor	
4-Phenyl Cyclohexene	4994-16-5	525AT	525AT Badge	54.6			0.018 PPM	3		6	AT L-OV (GC/FID)	OV List A	Rug Odor	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide.
4-Vinylcyclohexene	100-40-3	546AT	546AT Badge	2.20			0.064 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
4-Vinylcyclohexene	100-40-3	566AT	566AT Badge	8.80			0.016 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
4-Vinylcyclohexene #	100-40-3	525AT #	525AT Badge	61.6			0.0023 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
Acetaldehyde #	75-07-0	571AT #	571AT Badge	11.7	OSHA 200 PPM	25 PPM	0.30 PPM	3		10	MOD EPA TO-11	Aldehyde		Sampling rate has been lab verified.
Acetaldehyde	75-07-0	581AT	581AT Badge	84.7	OSHA 200 PPM	25 PPM	0.04 PPM	3		10	MOD EPA TO-11	Aldehyde		
Acetic Acid	64-19-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.025 PPM	3	24	6	OSHA PV2119 MODIFIED	Acetic Acid	Propenal	
Acetic Acid #	64-19-7	543AT #	543AT Badge	11.0	OSHA 10 PPM		0.23 PPM	3		6	OSHA PV2119 MODIFIED	Acetic Acid	Propenal	Charcoal media enclosed in PTFE (eg AT 566, 546, and 525) can be used with a GC method like NIOSH 1603, but not with an ion chromatograph like the partially validated OSHA method 2119 or 1865G. Sampling rate has been lab verified.
Acetone #	67-64-1	546AT #	546AT Badge	3.23	OSHA 1000 PPM		0.54 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Acetone	67-64-1	566AT	566AT Badge	12.9	OSHA 1000 PPM		0.14 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Acetone	67-64-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1000 PPM		0.018 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
Acetone	67-64-1	525AT	525AT Badge	87.2	OSHA 1000 PPM		0.020 PPM	2		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Acetonitrile	75-05-8	546AT	546AT Badge	3.48	OSHA 40 PPM		0.50 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Acetonitrile #	75-05-8	566AT #	566AT Badge	13.9	OSHA 40 PPM		0.12 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Acetonitrile	75-05-8	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 40 PPM		0.017 PPM	1.4	10	6	AT L-OV (GC/FID)	OV List A		
Acetonitrile	75-05-8	525AT	525AT Badge	98.3	OSHA 40 PPM		0.018 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Acetophenone	98-86-2	566AT	566AT Badge	8.00			0.26 PPM	5		6	AT L-OV (GC/FID)	OV List B		
Acrolein #	107-02-8	592AT #	592AT #	8.56	OSHA 0.1 PPM		0.053 PPM	0.5		10	MOD OSHA 52	Acrolein		Sampling rate has been lab verified.
Acrolein	107-02-8	J6-117	Tube, XAD-2 (2-HMP) 75-1150mg Tube	3.23	OSHA 0.1 PPM		0.30 PPM	1		10	MOD OSHA 52	Acrolein		
Acrylonitrile #	107-13-1	546AT	546AT Badge	3.23	OSHA 2 PPM	OSHA CEILING 10 PPM	0.30 PPM	1		6	MOD NIOSH 1604	OV List A		
Acrylonitrile	107-13-1	566AT	566AT Badge	12.9	OSHA 2 PPM	OSHA CEILING 10 PPM	0.074 PPM	1		6	MOD NIOSH 1604	OV List A		
Acrylonitrile	107-13-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 2 PPM	OSHA CEILING 10 PPM	0.0096 PPM	1	20	6	MOD NIOSH 1604	OV List A		
Acrylonitrile #	107-13-1	525AT #	525AT Badge	88.0	OSHA 2 PPM	OSHA CEILING 10 PPM	0.011 PPM	1		6	MOD NIOSH 1604	OV List A		
Allyl Alcohol	107-18-6	546AT	546AT Badge	3.01	OSHA 2 PPM	NIOSH CEILING 4 PPM	0.26 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Allyl Alcohol	107-18-6	566AT	566AT Badge	12.9	OSHA 2 PPM	NIOSH CEILING 4 PPM	0.065 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Allyl Alcohol #	107-18-6	525AT #	525AT Badge	84.8	OSHA 2 PPM	NIOSH CEILING 4 PPM	0.0093 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Allyl Chloride	107-05-1	546AT	546AT Badge	2.62	OSHA 2 PPM		0.28 PPM	1.1		6	AT L-OV (GC/FID)	OV List A		
Allyl Chloride	107-05-1	566AT	566AT Badge	10.5	OSHA 2 PPM		0.070 PPM	1.1		6	AT L-OV (GC/FID)	OV List A		
Allyl Chloride #	107-05-1	525AT #	525AT Badge	84.8	OSHA 2 PPM		0.0086 PPM	1.1		6	AT L-OV (GC/FID)	OV List A		
Alpha-Pinene	80-56-8	546AT	546AT Badge	1.96			0.15 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Alpha-Pinene #	80-56-8	566AT #	566AT Badge	7.86			0.058 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Alpha-Pinene	80-56-8	525AT	525AT Badge	57.2			0.0052 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Aluminum	7429-90-5	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 15 MG/M3		0.0021 MG/M3	2	1000	6	MOD OSHA ID 125G	ICP		
Aluminum	7429-90-5	J5-024 SMR TAB	Smear Tab		OSHA 15 MG/M3		6	MOD OSHA ID 125G			ICP			J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Aluminum Chloride	7446-70-0	J5-024 SMR TAB	Smear Tab				5			6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Aluminum Chloride	7446-70-0	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0052 MG/M3	5	1000	6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Ammonia	7664-41-7	J6-010-06	Tube, Silica Gel-w/H2SO4 100-1200mg Tube	0.10 L/min	OSHA 50 PPM		0.090 PPM	3	24	6	MOD OSHA ID 188	Ammonia		
Ammonia #	7664-41-7	584AT #	584AT #	28.8	OSHA 50 PPM		0.31 PPM	3		10	MOD OSHA ID 188	Ammonia		Sampling rate has been lab verified.
Amyl Acetate #	628-63-7	566AT #	566AT Badge	8.03	OSHA 100 PPM		0.044 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Amyl Acetate	628-63-7	546AT	546AT Badge	2.01	OSHA 100 PPM		0.18 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Antimony	7440-36-0	J5-024 SMR TAB	Smear Tab		OSHA 0.5 MG/M3		6	MOD OSHA ID 125G			ICP			J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Antimony	7440-36-0	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.5 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Arsenic	7440-38-2	J5-025 G WIPE	Ghost Wipe		OSHA 0.01 MG/M3	NIOSH CEILING 0.002 MG/M3	6	MOD OSHA ID 125G			ICP			J8109K: J5-025 + J8054 (Ghost wipe with Vial). Ghost wipes are pre-moistened with DI water. Additional DI water is not necessary.
Arsenic	7440-38-2	J5-024 SMR TAB	Smear Tab		OSHA 0.01 MG/M3	NIOSH CEILING 0.002 MG/M3	6	MOD OSHA ID 125G			ICP			J8109K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Arsenic	7440-38-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.01 MG/M3	NIOSH CEILING 0.002 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Barium	7440-39-3	J5-024 SMR TAB	Smear Tab		OSHA 0.5 MG/M3		6	MOD OSHA ID 125G			ICP			J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Barium	7440-39-3	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.5 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Benzaldehyde #	100-52-7	571AT #	571AT Badge	6.97			0.021 PPM	0.3		10	MOD EPA TO-11	Aldehyde	Benzal	
Benzaldehyde	100-52-7	581AT	581AT Badge	65.8			0.0022 PPM	0.3		10	MOD EPA TO-11	Aldehyde	Benzal	
Benzene	71-43-2	546AT	546AT Badge	2.42	OSHA 1 PPM	OSHA STEL 5 PPM	0.11 PPM	0.4		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Benzene	71-43-2	566AT	566AT Badge	9.69	OSHA 1 PPM	OSHA STEL 5 PPM	0.027 PPM	0.4		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Benzene	71-43-2	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1 PPM	OSHA STEL 5 PPM	0.0026 PPM	0.4	10	6	AT L-OV (GC/FID)	OV List A		
Benzene #	71-43-2	525AT #	525AT Badge	76.7	OSHA 1 PPM	OSHA STEL 5 PPM	0.0034 PPM	0.4		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Benzyl Alcohol #	100-51-6	566AT #	566AT Badge	8.50			0.28 PPM	5		6	AT L-OV (GC/FID)	Phenoxyl		
Benzyl Alcohol	100-51-6	546AT	546AT Badge	2.13			1.1 PPM	5		6	AT L-OV (GC/FID)	Phenoxyl		
Benzyl Alcohol	100-51-6	525AT	525AT Badge	65.4			0.036 PPM	5		6	AT L-OV (GC/FID)	Phenoxyl		
Benzyl Chloride	100-44-7	546AT	546AT Badge	2.03	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.20 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Benzyl Chloride	100-44-7	566AT	566AT Badge	8.14	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.049 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Benzyl Chloride	100-44-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.0040 PPM	1	10	6	AT L-OV (GC/FID)	OV List B		
Benzyl Chloride #	100-44-7	525AT #	525AT Badge	59.2	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.0068 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Beryllium	7440-41-7	J5-024 SMR TAB	Smear Tab		OSHA 0.002 MG/M3	OSHA CEILING 0.005 MG/M3	6	MOD OSHA ID 125G			ICP			Does not include Beryllium Oxide. Contact Customer Service for Beryllium Oxide Testing. Order Kit J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Beryllium	7440-41-7	J5-025 G WIPE	Ghost Wipe		OSHA 0.002 MG/M3	OSHA CEILING 0.005 MG/M3	6	MOD OSHA ID 125G			ICP			Does not include Beryllium Oxide. Contact Customer Service for Beryllium Oxide Testing. J8109K: J5-025 + J8054 (ghost wipe with Vial). Ghost wipes are pre-moistened with DI water. Additional DI water is not necessary.
Beryllium	7440-41-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.002 MG/M3	OSHA CEILING 0.005 MG/M3	0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125G	ICP		
Beta-Pinene	127-91-3	546												

Assay Technology Inc - Sampling Guide

- Indicates the badge / chemical combination we recommend.

Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com.
Information in this table can change without notice.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
Butyl Glycidyl Ether	2426-08-6	546AT	546AT Badge		1.92	OSHA 50 PPM	0.20 PPM	1	6	6	AT LOV (GC/FID)	OV List B		
Butyl Glycidyl Ether	2426-08-6	525AT	525AT Badge		58.1	OSHA 50 PPM	0.0067 PPM	1	6	6	AT LOV (GC/FID)	OV List B		
Butyl Methacrylate	97-88-1	525AT	525AT Badge		56.5	NIOSH CEILING 5.6 PPM	0.0082 PPM	1.3	6	6	AT LOV (GC/FID)	OV List A		
Butyl Methacrylate	97-88-1	566AT	566AT Badge		7.37	NIOSH CEILING 5.6 PPM	0.063 PPM	1.3	6	6	AT LOV (GC/FID)	OV List A		
Butylamine #	109-73-9	585AT #	585AT #		7.04	OSHA 5 PPM	0.049 PPM	0.5	10	10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
Butyraldehyde #	123-72-8	571AT #	571AT Badge		8.20		0.026 PPM	0.3	10	10	MOD EPA TO-11	Aldehyde	Butanal	
Butyraldehyde	123-72-8	#6-119	Tube, Silica Gel-DNPH Tube	0.10 L/min			0.021 PPM	3	30	10	MOD EPA TO-11	Aldehyde	Butanal	
Butyraldehyde	123-72-8	581AT	581AT Badge		70.8		0.0030 PPM	0.3	10	10	MOD EPA TO-11	Aldehyde	Butanal	
Cadmium	7440-43-9	J5-025 G WIPE	Ghost Wipe			OSHA 0.005 MG/M3		0.05	6	6	MOD OSHA ID 125G	ICP		J8109K: J5-025 + J8054 (Ghost wipe with Vial). Ghost wipes are pre-moistened with DI water. Additional DI water is not necessary.
Cadmium	7440-43-9	J5-024 SMR TAB	Smear Tab			OSHA 0.005 MG/M3		0.05	6	6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Cadmium	7440-43-9	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 0.005 MG/M3	0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125G	ICP		
Calcium	7440-70-2	J5-024 SMR TAB	Smear Tab			OSHA 0.005 MG/M3		10	6	6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Calcium	7440-70-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 0.005 MG/M3	0.0021 MG/M3	2	1000	6	MOD OSHA ID 125G	ICP		
Campfor	76-22-2	546AT	546AT Badge		1.61	OSHA 2 MG/M3	0.12 PPM	0.6	6	6	AT LOV (GC/FID)	OV List B		
Campfor	76-22-2	566AT	566AT Badge		6.43	OSHA 2 MG/M3	0.031 PPM	0.6	6	6	AT LOV (GC/FID)	OV List B		
Campfor #	76-22-2	525AT #	525AT #		47.7	OSHA 2 MG/M3	0.0042 PPM	0.6	6	6	AT LOV (GC/FID)	OV List B		
Carbon Black	1333-86-4	J537PVCW250	Cassette, PVC Pre-wt Cassette	2.0 L/min		OSHA 3.5 MG/M3	0.021 MG/M3	20	1000	6	MOD NIOSH 3000	Gravimetric		
Carbon Tetrachloride	56-23-5	546AT	546AT Badge		1.85	OSHA 10 PPM	0.30 PPM	5	6	6	AT LOV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride	56-23-5	566AT	566AT Badge		7.38	OSHA CEILING 25 PPM	0.22 PPM	5	6	6	AT LOV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride	56-23-5	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 10 PPM	0.017 PPM	5	10	6	AT LOV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride #	56-23-5	525AT #	525AT #		68.9	OSHA 10 PPM	0.024 PPM	5	6	6	AT LOV (GC/FID)	OV List A	Tetrachloromethane	
Chlorine	7782-50-5	95-9006	Cassette, PTFE Ag membrane	1.0 L/min		OSHA CEILING 1 PPM	0.0034 PPM	2	360	6	MOD NIOSH 6011	Halogen		
Chlorobenzene	108-90-7	546AT	546AT Badge		2.16	OSHA 75 PPM	0.13 PPM	0.6	6	6	AT LOV (GC/FID)	OV List A		
Chlorobenzene #	108-90-7	566AT #	566AT #		8.64	OSHA 75 PPM	0.031 PPM	0.6	6	6	AT LOV (GC/FID)	OV List A		
Chlorobenzene	108-90-7	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 75 PPM	0.0027 PPM	0.6	10	6	AT LOV (GC/FID)	OV List A		
Chlorobenzene	108-90-7	525AT	525AT Badge		62.2	OSHA 75 PPM	0.0044 PPM	0.6	6	6	AT LOV (GC/FID)	OV List A		
Chloroform	67-66-3	546AT	546AT Badge		2.10	OSHA CEILING 50 PPM	0.61 PPM	3	6	6	AT LOV (GC/FID)	OV List A	Trichloromethane	Sampling rate has been lab verified.
Chloroform	67-66-3	566AT	566AT Badge		8.39	OSHA CEILING 50 PPM	0.15 PPM	3	6	6	AT LOV (GC/FID)	OV List A	Trichloromethane	Sampling rate has been lab verified.
Chloroform	67-66-3	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA CEILING 50 PPM	0.013 PPM	3	10	6	AT LOV (GC/FID)	OV List A	Trichloromethane	
Chloroform #	67-66-3	525AT #	525AT badge		73.9	OSHA CEILING 50 PPM	0.017 PPM	3	6	6	AT LOV (GC/FID)	OV List A	Trichloromethane	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Chromium	7440-47-3	J5-025 G WIPE	Ghost Wipe			OSHA 1 MG/M3		0.05	6	6	MOD OSHA ID 125G	ICP		J8109K: J5-025 + J8054 (Ghost wipe with Vial). Ghost wipes are pre-moistened with DI water. Additional DI water is not necessary.
Chromium	7440-47-3	J5-024 SMR TAB	Smear Tab			OSHA 1 MG/M3		0.5	6	6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Chromium	7440-47-3	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 1 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Chromium Hexavalent Ion	18540-29-9	J537PVC250	Cassette, PVC Cassette	2.0 L/min		OSHA 0.005 MG/M3			960	10	MOD OSHA 215	Subcontract		For OSHA 215: Samples collected on PVC filters from welding operations must be submitted within 8 days of sampling. Samples collected on PVC filters from chromium plating operations must be submitted within 6 days of sampling. WIPES: Use dry PVC filters for wipes. Open cassette and wipe with PVC filter.
Cobalt	7440-48-4	J5-024 SMR TAB	Smear Tab			OSHA 0.1 MG/M3		0.2	6	6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Cobalt	7440-48-4	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 0.1 MG/M3	0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125G	ICP		
Copper	7440-50-8	J5-024 SMR TAB	Smear Tab			OSHA 0.1 MG/M3		0.5	6	6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Copper	7440-50-8	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 0.1 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Cresol, Total	1319-77-3	#6-095	Tube, XAD-7 50-1100mg Tube	0.10 L/min			0.0047 PPM	1	24	10	MOD OSHA 32	Phenol		
Cresol, Total	1319-77-3	596AT	596AT Badge		86.2		0.027 PPM	5	10	10	MOD OSHA 32	Phenol		
Crotonaldehyde #	4170-30-3	571AT #	571AT #		8.59	OSHA 2 PPM	0.0042 PPM	0.05	10	10	MOD EPA TO-11	Aldehyde		
Crotonaldehyde	4170-30-3	581AT	581AT Badge		71.5	OSHA 2 PPM	0.00051 PPM	0.05	10	10	MOD EPA TO-11	Aldehyde		
Cumene	98-82-8	546AT	546AT Badge		2.09		0.10 PPM	0.5	6	6	AT LOV (GC/FID)	OV List A		
Cumene #	98-82-8	566AT #	566AT Badge		8.36		0.025 PPM	0.5	6	6	AT LOV (GC/FID)	OV List A		
Cumene	98-82-8	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0021 PPM	0.5	10	6	AT LOV (GC/FID)	OV List A		
Cumene	98-82-8	525AT	525AT Badge		54.6		0.0039 PPM	0.5	6	6	AT LOV (GC/FID)	OV List A		
Cyclohexane #	110-82-7	546AT #	546AT #		2.21	OSHA 300 PPM	0.16 PPM	0.6	6	6	AT LOV (GC/FID)	OV List A		Sampling rate has been lab verified.
Cyclohexane	110-82-7	566AT	566AT Badge		8.82	OSHA 300 PPM	0.041 PPM	0.6	6	6	AT LOV (GC/FID)	OV List A		Sampling rate has been lab verified.
Cyclohexane	110-82-7	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 300 PPM	0.0036 PPM	0.6	10	6	AT LOV (GC/FID)	OV List A		
Cyclohexane	110-82-7	525AT	525AT Badge		59.9	OSHA 300 PPM	0.0063 PPM	0.6	6	6	AT LOV (GC/FID)	OV List A		Sampling rate has been lab verified.
Cyclohexanol	108-93-0	546AT	546AT Badge		2.29	OSHA 50 PPM	0.16 PPM	0.7	6	6	AT LOV (GC/FID)	OV List A		
Cyclohexanol #	108-93-0	566AT #	566AT Badge		9.16	OSHA 50 PPM	0.039 PPM	0.7	6	6	AT LOV (GC/FID)	OV List A		
Cyclohexanol	108-93-0	525AT	525AT Badge		56.7	OSHA 50 PPM	0.0063 PPM	0.7	6	6	AT LOV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	546AT	546AT Badge		2.34	OSHA 50 PPM	0.13 PPM	0.6	6	6	AT LOV (GC/FID)	OV List A		Sampling rate has been lab verified.
Cyclohexanone #	108-94-1	566AT #	566AT Badge		9.37	OSHA 50 PPM	0.033 PPM	0.6	6	6	AT LOV (GC/FID)	OV List A		Sampling rate has been lab verified.
Cyclohexanone	108-94-1	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 50 PPM	0.0031 PPM	0.6	10	6	AT LOV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	525AT	525AT Badge		66.8	OSHA 50 PPM	0.0047 PPM	0.6	6	6	AT LOV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Cyclohexylamine #	108-91-8	585AT #	585AT #		7.41	MOD OSHA 60	0.035 PPM	0.5	10	10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
Desflurane #	57041-67-5	574AT #	574AT Badge		8.56		0.11 PPM	3	6	6	MOD OSHA 103	Anesthetic Gas	Suprane	Sampling rate has been lab verified.
Desflurane	57041-67-5	#6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min			0.018 PPM	3	12	6	MOD OSHA 103	Anesthetic Gas	Suprane	Sampling rate has been lab verified.
Diacetone Alcohol	123-42-2	525AT	525AT Badge		53.8	OSHA 50 PPM	0.0082 PPM	1	6	6	AT LOV (GC/FID)	OV List A		
Diacetone Alcohol	123-42-2	546AT	546AT Badge		2.13	OSHA 50 PPM	0.21 PPM	1	6	6	AT LOV (GC/FID)	OV List A		
Diacetone Alcohol #	123-42-2	566AT #	566AT #		8.50	OSHA 50 PPM	0.083 PPM	1	6	6	AT LOV (GC/FID)	OV List A		
Dicyclopentadiene #	77-73-6	525AT #	525AT Badge		57.8		0.013 PPM	2	6	6	AT LOV (GC/FID)	OV List B		
Dicyclopentadiene	77-73-6	566AT	566AT Badge		7.97		0.097 PPM	2	6	6	AT LOV (GC/FID)	OV List B		
Dicyclopentadiene	77-73-6	546AT	546AT Badge		1.99		0.39 PPM	2	6	6	AT LOV (GC/FID)	OV List B		
Diethanolamine #	111-42-2	585AT #	585AT #		7.19	NIOSH 3 PPM	0.067 PPM	1	10	10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
Diethyl Ketone	96-22-0	546AT	546AT Badge		2.37		0.19 PPM	3	6	6	AT LOV (GC/FID)	OV List A	3-Pentanone	
Diethyl Ketone #	96-22-0	566AT #	566AT #		9.47		0.19 PPM	3	6	6	AT LOV (GC/FID)	OV List A	3-Pentanone	
Diethyl Ketone	96-22-0	525AT	525AT Badge		66.6		0.027 PPM	3	6	6	AT LOV (GC/FID)	OV List A	3-Pentanone	
Diethylamine #	109-89-7	585AT #	585AT #		8.67	OSHA 25 PPM	0.040 PPM	0.5	10	10	MOD OSHA 60	Amine		
Diethylene Glycol Butyl Ether	112-34-5	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.031 PPM	10	10	6	AT LOV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Butyl Ether #	112-34-5	566AT #	566AT #		74.9		0.44 PPM	10	6	6	AT LOV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Butyl Ether	112-34-5	546AT	546AT Badge		1.80		1.7 PPM	10	6	6	AT LOV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Butyl Ether	112-34-5	525AT	525AT Badge		54.2		0.058 PPM	10	6	6	AT LOV (GC/FID)	OV List A	Butyl Carbitol	
Diethylenetriamine #	111-40-0	585AT #	585AT #		7.26	NIOSH 1 PPM	0.020 PPM	0.3	10	10	MOD OSHA 60	Amine		

Assay Technology Inc - Sampling Guide

OSP = Organic Solvent Panel. See X525-25AT

- Indicates the badge / chemical combination we recommend.

Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com. Information in this table can change without notice.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	VOL (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
Dust, Total	1318-93-0	J537PC/PW250	Cassette, PVC Pre-wt Cassette		OSHA 15 MG/M3			20		6	MOD NIOSH 500	Gravimetric		Flow Rate: 1 to 2 L/min. Volume: VOL-MIN: 7 L @ 15 mg/m³ -MAX: 133 L @ 15 mg/m³
Epichlorohydrin	106-89-8	546AT	546AT Badge	2.39	OSHA 5 PPM			1.2		6	AT L-OV (GC/FID)	OV List A		
Epichlorohydrin	106-89-8	566AT	566AT Badge	9.54	OSHA 5 PPM			1.2		6	AT L-OV (GC/FID)	OV List A		
Epichlorohydrin	106-89-8	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 5 PPM			1.2	10	6	AT L-OV (GC/FID)	OV List A		
Epichlorohydrin #	106-89-8	525AT #	525AT Badge	65.0	OSHA 5 PPM			1.2		6	AT L-OV (GC/FID)	OV List A		
Ethanolamine	141-43-5	585AT #	585AT Badge	7.70	OSHA 3 PPM			0.32		10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
Ethyl 2-Cyanoacrylate #	7085-85-0	595AT #	595AT Badge	12.5				0.0098		10	MOD OSHA 55			Badges must be shipped on ice and arrive at the lab within 3 days of sampling. Please contact customer service to assure the lab is ready for them and can extract them before they expire. Sampling rate has been lab verified.
Ethyl Acetate #	141-78-6	546AT #	546AT Badge	2.25	OSHA 400 PPM			0.52		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Ethyl Acetate	141-78-6	566AT	566AT Badge	8.98	OSHA 400 PPM			0.13		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Ethyl Acetate	141-78-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 400 PPM			0.012		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acetate	141-78-6	525AT	525AT Badge	71.6	OSHA 400 PPM			0.016		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Ethyl Acrylate	140-88-5	546AT	546AT Badge	2.29	OSHA 25 PPM			0.20		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acrylate	140-88-5	566AT	566AT Badge	9.16	OSHA 25 PPM			0.090		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acrylate #	140-88-5	525AT #	525AT Badge	61.7	OSHA 25 PPM			0.0074		6	AT L-OV (GC/FID)	OV List A		
Ethyl Alcohol #	64-17-5	546AT #	546AT Badge	3.39	OSHA 1000 PPM			3.3		6	AT L-OV (GC/FID)	OV List A		Ethanol
Ethyl Alcohol	64-17-5	566AT	566AT Badge	13.5	OSHA 1000 PPM			0.82		6	AT L-OV (GC/FID)	OV List A		Ethanol
Ethyl Alcohol	64-17-5	J6-009	Tube, Charcoal 200-1400mg Tube	0.10 L/min	OSHA 1000 PPM			0.11	10	6	AT L-OV (GC/FID)	OV List A		Ethanol
Ethyl Alcohol	64-17-5	525AT	525AT Badge	83.4	OSHA 1000 PPM			0.13		6	AT L-OV (GC/FID)	OV List A		Ethanol
Ethyl Ether #	60-29-7	546AT #	546AT Badge	2.82	OSHA 400 PPM			0.73		6	AT L-OV (GC/FID)	OV List A		Diethyl Ether
Ethyl Ether	60-29-7	566AT	566AT Badge	11.3	OSHA 400 PPM			0.18		6	AT L-OV (GC/FID)	OV List A		Diethyl Ether
Ethyl Ether	60-29-7	J6-009	Tube, Charcoal 200-1400mg Tube	0.10 L/min	OSHA 400 PPM			0.021	10	6	AT L-OV (GC/FID)	OV List A		Diethyl Ether
Ethyl Ether	60-29-7	525AT	525AT Badge	76.4	OSHA 400 PPM			0.027		6	AT L-OV (GC/FID)	OV List A		Diethyl Ether
Ethyl Methacrylate #	97-63-2	566AT #	566AT Badge	8.41				0.053		6	AT L-OV (GC/FID)	OV List A		
Ethyl Methacrylate	97-63-2	546AT	546AT Badge	2.10				0.21		6	AT L-OV (GC/FID)	OV List A		
Ethyl Methacrylate	97-63-2	525AT	525AT Badge	57.9				0.0077		6	AT L-OV (GC/FID)	OV List A		
Ethylamine #	75-04-7	585AT #	585AT badge	11.1	OSHA 10 PPM			0.031		10	MOD OSHA 60	Amine		
Ethylbenzene	100-41-4	546AT	546AT Badge	2.23	OSHA 100 PPM	NIOSH 125 PPM		0.11		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Ethylbenzene #	100-41-4	566AT #	566AT Badge	8.91	OSHA 100 PPM	NIOSH 125 PPM		0.027		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Ethylbenzene	100-41-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	NIOSH 125 PPM		0.0024	10	6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Ethylbenzene	100-41-4	525AT	525AT Badge	63.6	OSHA 100 PPM	NIOSH 125 PPM		0.0038		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Ethylene Chlorohydrin	107-07-3	546AT	546AT Badge	2.56	OSHA 5 PPM			0.35		6	AT L-OV (GC/FID)	OV List A		
Ethylene Chlorohydrin	107-07-3	566AT	566AT Badge	10.2	OSHA 5 PPM			0.087		6	AT L-OV (GC/FID)	OV List A		
Ethylene Chlorohydrin #	107-07-3	525AT #	525AT Badge	68.1	OSHA 5 PPM			0.013		6	AT L-OV (GC/FID)	OV List A		
Ethylene Glycol Dimethyl Ether	110-71-4	546AT	546AT Badge	2.42				0.23		6	AT L-OV (GC/FID)	OV List A		Dimethoxyethane, 1,2-Dimethoxyethane
Ethylene Glycol Dimethyl Ether #	110-71-4	566AT #	566AT Badge	9.56				0.058		6	AT L-OV (GC/FID)	OV List A		Dimethoxyethane, 1,2-Dimethoxyethane
Ethylene Glycol Dimethyl Ether	110-71-4	525AT	525AT Badge	65.5				0.0086		6	AT L-OV (GC/FID)	OV List A		Dimethoxyethane, 1,2-Dimethoxyethane
Ethylene Oxide #	75-21-8	555AT #	555AT Badge	12.4	OSHA 1 PPM	OSHA STEL 5 PPM		0.011		6	MOD OSHA 1010	Ethylene Oxide		Sampling rate has been lab verified.
Ethylendiamine #	107-15-3	585AT #	585AT Badge	9.59	OSHA 10 PPM			0.027		10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
Formaldehyde #	50-00-0	571AT #	571AT Badge	16.2	OSHA 0.75 PPM	OSHA STEL 2 PPM		0.010		6	MOD OSHA 1007	Aldehyde	Formalin	For more information about using badges for formaldehyde from Formalin, go to https://www.assaytech.com/product/571-aldehyde-monitor/ Sampling rate has been lab verified.
Formaldehyde	50-00-0	581AT	581AT badge	124	OSHA 0.75 PPM	OSHA STEL 2 PPM		0.0014		6	MOD OSHA 1007	Aldehyde	Formalin	The S80 badge has been replaced by the 581 badge. For more information about using badges for formaldehyde from Formalin, go to https://www.assaytech.com/product/571-aldehyde-monitor/ Sampling rate has been lab verified.
Formaldehyde	50-00-0	J6-119	Tube, Silica Gel-DNPH Tube	0.10 L/min	OSHA 0.75 PPM	OSHA STEL 2 PPM		0.0017		6	MOD NIOSH 2016	Aldehyde	Formalin	
Glutaraldehyde	111-30-8	J6-119	Tube, Silica Gel-DNPH Tube	0.10 L/min		NIOSH CEILING 0.2 PPM		0.00041		24	6	MOD NIOSH 2532	Cidex	
Glutaraldehyde	111-30-8	571AT	571AT Badge	7.24		NIOSH CEILING 0.2 PPM		0.00056		6	MOD OSHA 64	Aldehyde	Cidex	Sampling rate has been lab verified.
Glutaraldehyde	111-30-8	J5-9003	Cassette, GFF 2-4-DNPH	1.0 L/min		NIOSH CEILING 0.2 PPM		0.00020		6	MOD OSHA 64	Aldehyde	Cidex	
Glutaraldehyde #	111-30-8	581AT	581AT badge	63.2		NIOSH CEILING 0.2 PPM		0.000064		6	MOD OSHA 64	Aldehyde	Cidex	
Haloethane #	151-67-7	574AT #	574AT Badge	8.70				0.12		6	MOD OSHA 103	Anesthetic Gas		Sampling rate has been lab verified.
Haloethane #	151-67-7	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min				0.021		6	MOD OSHA 103	Anesthetic Gas		
HCFC-1233(Z)(E)	10287-65-0	549AT #	549AT Badge	0.600				0.65		10	AT L-OV (GC/FID)	OV List A		Freon
Heptane	142-82-5	546AT #	546AT Badge	2.14	OSHA 500 PPM			0.12		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Heptane	142-82-5	566AT	566AT Badge	8.54	OSHA 500 PPM			0.030		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Heptane	142-82-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 500 PPM			0.0025	10	6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Heptane	142-82-5	525AT	525AT Badge	56.3	OSHA 500 PPM			0.0045		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Hexamethylene Diisocyanate	822-06-0	J5-9002	Cassette, GFF w/ 1,-PP	1.0 L/min	NIOSH 0.005 PPM	NIOSH CEILING 0.02 PPM		0.00024		6	MOD OSHA 42	Isocyanates	HDI	Sample oerface (See method)
Hexanal #	66-25-1	571AT #	571AT Badge	6.48				0.24		10	MOD EPA TO-11	Aldehyde	Hexanaldehyde	
Hexanal	66-25-1	581AT	581AT Badge	63.0				0.024		6	MOD EPA TO-11	Aldehyde	Hexanaldehyde	
Hydrogen Peroxide #	7722-84-1	587 AT #	587 AT Badge	137	OSHA 1 PPM			0.020		6	MOD OSHA METHOD 1019	Subcontract		The 587 monitors are manufactured and analyzed by Advanced Chemical Sensor, AHA LAP, LLC 102047. Badges are sent to AT Labs and subcontracted to ACS.
Indium	7440-74-6	J5-024 SMR TAB	Smear Tab					0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Indium	7440-74-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052	MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP	
Iron	7439-89-6	J5-024 SMR TAB	Smear Tab					2		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Iron	7439-89-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0021	MG/M3	2	1000	6	MOD OSHA ID 125G	ICP	
Iron(III) Oxide	1309-37-1	J5-024 SMR TAB	Smear Tab					3		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Iron(III) Oxide	1309-37-1	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0031	MG/M3	3	1000	6	MOD OSHA ID 125G	ICP	
Isoamyl Alcohol #	123-51-3	566AT #	566AT Badge	9.77	OSHA 100 PPM			0.063		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	123-51-3	546AT	546AT Badge	2.44	OSHA 100 PPM			0.21		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	123-51-3	525AT	525AT Badge	76.7	OSHA 100 PPM			0.0068		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Acetate	110-19-0	525AT	525AT Badge	63.6	OSHA 150 PPM			0.0069		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Acetate	110-19-0	566AT	566AT Badge	8.50	OSHA 150 PPM			0.052		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Acetate #	110-19-0	546AT #	546AT Badge	2.13	OSHA 150 PPM			0.21		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Alcohol	78-83-1	546AT	546AT Badge	2.67	OSHA 100 PPM			0.18		6	AT L-OV (GC/FID)	OV List A		Isobutanol
Isobutyl Alcohol	78-83-1	566AT #	566AT Badge	10.7	OSHA 100 PPM			0.045		6	AT L-OV (GC/FID)	OV List A		Isobutanol
Isobutyl Alcohol	78-83-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM			0.0048		6	AT L-OV (GC/FID)	OV List A		Isobutanol
Isobutyl Alcohol	78-83-1	525AT	525AT Badge	67.2	OSHA 100 PPM			0.0072		6	AT L-OV (GC/FID)	OV List A		Isobutanol
Isoflurane #	26675-46-7	574AT #	574AT Badge	7.87	CAL 2 PPM			0.11		6	MOD OSHA 103	Anesthetic Gas	Forane	Sampling rate has been lab verified.
Isoflurane	26675-46-7	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min	CAL 2 PPM			0.017		6	MOD OSHA 103	Anesthetic Gas	Forane	
Isoflurane, Mg/M3 #	26675-46-7	574AT #	574AT Badge	7.87				0.79		6	MOD OSHA 103	Anesthetic Gas	Forane	Sampling rate has been lab verified.
Isoophorone	78-59-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 25 PPM			0.0022		6	AT L-OV (GC/FID)	OV List B		
Isoophorone #	78-59-1	566AT #	566AT Badge	7.80	OSHA 25 PPM			0.028		6	AT L-OV (GC/FID)	OV List B		
Isoophorone	78-59-1	546AT	546AT Badge	1.95										

Assay Technology Inc - Sampling Guide

OSP = Organic Solvent Panel. See X525-25AT

- Indicates the badge / chemical combination we recommend.

Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com. Information in this table can change without notice.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
Isopropyl Alcohol	67-63-0	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 400 PPM	NIOSH STEL 500 PPM	0.0085 PPM	1	10	6	AT-L-OV (GC/FID)	OV List A	IPA	
Isopropyl Alcohol	67-63-0	525AT	525AT Badge	67.2	OSHA 400 PPM	NIOSH STEL 500 PPM	0.013 PPM	1	10	6	AT-L-OV (GC/FID)	OV List A	IPA	
Lead	7439-92-1	J5-024 SMR TAB	Smear Tab		OSHA 0.05 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		
Lead	7439-92-1	J5-025 G WIPE	Ghost Wipe		OSHA 0.05 MG/M3			5		6	MOD OSHA ID 125G	ICP		
Lead	7439-92-1	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.05 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Magnesium	7439-95-4	J5-024 SMR TAB	Smear Tab		OSHA 15 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		
Magnesium	7439-95-4	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 15 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Manganese	7439-96-5	J5-024 SMR TAB	Smear Tab		OSHA CEILING 5 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		
Manganese	7439-96-5	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA CEILING 5 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Mercury	7439-97-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.1 MG/M3	CAL OSHA CEILING 0.1 MG/M3	0.000021 MG/M3	0.02	1000	6	AT CVAF	Mercury		Particulates Only
Mercury	7439-97-6	J5-024 SMR TAB	Smear Tab		OSHA 0.1 MG/M3	CAL OSHA CEILING 0.1 MG/M3		0.02		6	AT CVAF	Mercury		Particulates Only, Order Kit J58114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Mercury	7439-97-6	593AT	593AT Badge	17.0	OSHA 0.1 MG/M3	CAL OSHA CEILING 0.1 MG/M3	0.00061 MG/M3	0.005		6	AT CVAF	Mercury		Particulates Only, Order Kit J58114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment. Sampling rate has been lab verified.
Mesitylene	108-67-8	546AT	546AT Badge	2.09	OSHA 25 PPM		1.0 PPM	5		6	AT-L-OV (GC/FID)	OV List A		1,3,5-Trimethylbenzene
Mesitylene #	108-67-8	566AT #	566AT Badge	8.36	OSHA 25 PPM		0.25 PPM	5		6	AT-L-OV (GC/FID)	OV List A		1,3,5-Trimethylbenzene
Mesitylene	108-67-8	525AT	525AT Badge	59.5	OSHA 25 PPM		0.036 PPM	5		6	AT-L-OV (GC/FID)	OV List A		1,3,5-Trimethylbenzene
Methyl Acetate #	79-20-9	566AT #	566AT Badge	10.3	OSHA 200 PPM		0.13 PPM	2		6	AT-L-OV (GC/FID)	OV List A		
Methyl Acetate	79-20-9	546AT	546AT Badge	2.60	OSHA 200 PPM		0.53 PPM	2		6	AT-L-OV (GC/FID)	OV List A		
Methyl Acrylate	96-33-3	546AT	546AT Badge	2.47	OSHA 10 PPM		0.48 PPM	2		6	AT-L-OV (GC/FID)	OV List A		
Methyl Acrylate #	96-33-3	566AT #	566AT Badge	9.99	OSHA 10 PPM		0.12 PPM	2		6	AT-L-OV (GC/FID)	OV List A		
Methyl Acrylate	96-33-3	525AT	525AT Badge	68.5	OSHA 10 PPM		0.017 PPM	2		6	AT-L-OV (GC/FID)	OV List A		
Methyl Alcohol	67-56-1	#6-010	Tube, Silica Gel 75-150mg Tube	0.10 L/min	OSHA 200 PPM	NIOSH STEL 250 PPM	0.048 PPM	3	5	6	MOD NIOSH 2000	Methanol		
Methyl Alcohol	67-56-1	546AT	546AT Badge	4.06	OSHA 200 PPM	NIOSH STEL 250 PPM	1.2 PPM	3		6	AT-L-OV (GC/FID)	OV List A	Methanol	Use 566 badge for STEL. Use 546 for PEL. It is not recommended that Methyl Alcohol be collected on the 521/525 badge.
Methyl Alcohol	67-56-1	566AT	566AT Badge	16.2	OSHA 200 PPM	NIOSH STEL 250 PPM	0.29 PPM	3		6	AT-L-OV (GC/FID)	OV List A	Methanol	Use 566 badge for STEL. Use 546 for PEL. It is not recommended that Methyl Alcohol be collected on the 521/525 badge.
Methyl Alcohol	67-56-1	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM	NIOSH STEL 250 PPM	0.048 PPM	3	10	6	AT-L-OV (GC/FID)	OV List A	Methanol	
Methyl Alcohol #	67-56-1	545AT #	545AT Badge	4.50	OSHA 200 PPM	NIOSH STEL 250 PPM	1.1 PPM	3		6	MOD OSHA 5001	MEQH-747	Methanol	
Methyl Ethyl Ketone #	78-93-3	546AT #	546AT Badge	2.80	OSHA 200 PPM		0.20 PPM	0.8		6	AT-L-OV (GC/FID)	OV List A		2-Butanone, Ethyl methyl ketone, MEK
Methyl Ethyl Ketone	78-93-3	566AT	566AT Badge	11.2	OSHA 200 PPM		0.058 PPM	0.8		6	AT-L-OV (GC/FID)	OV List A		2-Butanone, Ethyl methyl ketone, MEK
Methyl Ethyl Ketone #	78-93-3	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.0057 PPM	0.8	10	6	AT-L-OV (GC/FID)	OV List A		2-Butanone, Ethyl methyl ketone, MEK
Methyl Ethyl Ketone	78-93-3	525AT	525AT Badge	80.4	OSHA 200 PPM		0.0070 PPM	0.8		6	AT-L-OV (GC/FID)	OV List A		2-Butanone, Ethyl methyl ketone, MEK
Methyl Isobutyl Ketone #	110-12-3	566AT #	566AT Badge	8.58	OSHA 100 PPM		0.052 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methyl Isobutyl Ketone	110-12-3	546AT	546AT Badge	2.14	OSHA 100 PPM		0.21 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methyl Isobutyl Ketone #	110-12-3	525AT #	525AT Badge	60.6	OSHA 100 PPM		0.0074 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbinol #	108-11-2	566AT #	566AT Badge	9.08	OSHA 25 PPM		0.05 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbinol	108-11-2	546AT	546AT Badge	2.27	OSHA 25 PPM		0.22 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbinol	108-11-2	525AT	525AT Badge	55.2	OSHA 25 PPM		0.0090 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methyl Isobutyl Ketone	108-10-1	546AT	546AT Badge	2.29	OSHA 100 PPM		0.16 PPM	0.7		6	AT-L-OV (GC/FID)	OV List A		Hexone, MIBK
Methyl Isobutyl Ketone #	108-10-1	566AT #	566AT Badge	9.16	OSHA 100 PPM		0.039 PPM	0.7		6	AT-L-OV (GC/FID)	OV List A		Hexone, MIBK
Methyl Isobutyl Ketone	108-10-1	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0036 PPM	0.7		6	AT-L-OV (GC/FID)	OV List A		Hexone, MIBK
Methyl Isobutyl Ketone	108-10-1	525AT	525AT Badge	66.2	OSHA 100 PPM		0.0054 PPM	0.7		6	AT-L-OV (GC/FID)	OV List A		Hexone, MIBK
Methyl Methacrylate	80-62-6	546AT	546AT Badge	2.29	OSHA 100 PPM		0.22 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methyl Methacrylate #	80-62-6	566AT #	566AT Badge	9.16	OSHA 100 PPM		0.056 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methyl Methacrylate	80-62-6	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0051 PPM	1	10	6	AT-L-OV (GC/FID)	OV List A		
Methyl Methacrylate	80-62-6	525AT	525AT Badge	63.0	OSHA 100 PPM		0.0081 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methylamine #	74-89-5	585AT #	585AT Badge	13.4	OSHA 10 PPM		0.024 PPM	0.2		10	MOD OSHA 60	Amine		
Methylcyclohexane #	108-87-2	546AT #	546AT Badge	2.33	OSHA 500 PPM		0.11 PPM	0.5		6	AT-L-OV (GC/FID)	OV List A		
Methylcyclohexane	108-87-2	566AT	566AT Badge	9.32	OSHA 500 PPM		0.028 PPM	0.5		6	AT-L-OV (GC/FID)	OV List A		
Methylene Chloride	75-09-2	546AT	546AT Badge	2.39	OSHA 25 PPM		0.07 PPM	3		6	AT-L-OV (GC/FID)	OV List A		Dichloromethane
Methylene Chloride #	75-09-2	566AT #	566AT Badge	9.54	OSHA 25 PPM		0.19 PPM	3		6	AT-L-OV (GC/FID)	OV List A		Dichloromethane
Methylene Chloride	75-09-2	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 25 PPM		0.018 PPM	3	10	6	AT-L-OV (GC/FID)	OV List A		Dichloromethane
Methylene Chloride	75-09-2	525AT	525AT Badge	72.7	OSHA 25 PPM		0.025 PPM	3		6	AT-L-OV (GC/FID)	OV List A		Dichloromethane
Molybdenum	7439-98-7	J5-024 SMR TAB	Smear Tab		OSHA 5 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		
Molybdenum	7439-98-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 5 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Morpholine #	110-91-8	585AT #	585AT Badge	7.92	OSHA 20 PPM	NIOSH STEL 30 PPM	0.15 PPM	2		10	MOD OSHA 60	Amine		
M-Tolualdehyde	620-23-5	571AT #	571AT Badge	6.29			0.20 PPM	3		10	MOD EPA TO-11	Aldehyde		
M-Tolualdehyde	620-23-5	581AT	581AT Badge	59.5			0.021 PPM	3		10	MOD EPA TO-11	Aldehyde		
Naphthalene	91-20-3	546AT	546AT Badge	2.03	OSHA 10 PPM	NIOSH STEL 15 PPM	1.1 PPM	6.5		6	AT-L-OV (GC/FID)	OV List A		
Naphthalene	91-20-3	566AT	566AT Badge	8.10	OSHA 10 PPM	NIOSH STEL 15 PPM	0.32 PPM	6.5		6	AT-L-OV (GC/FID)	OV List A		
Naphthalene	91-20-3	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM	NIOSH STEL 15 PPM	0.026 PPM	6.5	10	6	AT-L-OV (GC/FID)	OV List A		
Naphthalene #	91-20-3	525AT #	525AT Badge	58.4	OSHA 10 PPM	NIOSH STEL 15 PPM	0.044 PPM	6.5		6	AT-L-OV (GC/FID)	OV List A		
N-Butyl Acetate #	123-86-4	546AT #	546AT Badge	1.99	OSHA 150 PPM		0.30 PPM	0.9		6	AT-L-OV (GC/FID)	OV List A		
N-Butyl Acetate	123-86-4	566AT	566AT Badge	7.94	OSHA 150 PPM		0.059 PPM	0.9		6	AT-L-OV (GC/FID)	OV List A		
N-Butyl Acetate	123-86-4	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 150 PPM		0.0039 PPM	0.9	10	6	AT-L-OV (GC/FID)	OV List A		
N-Butyl Acetate	123-86-4	525AT	525AT Badge	55.9	OSHA 150 PPM		0.0071 PPM	0.9		6	AT-L-OV (GC/FID)	OV List A		
N-Butyl Alcohol	71-36-3	546AT	546AT Badge	2.67	OSHA 100 PPM	NIOSH CEILING 50 PPM	0.26 PPM	1		6	AT-L-OV (GC/FID)	OV List A	n-Butanol, Butyl Alcohol	
N-Butyl Alcohol	71-36-3	566AT	566AT Badge	10.7	OSHA 100 PPM	NIOSH CEILING 50 PPM	0.064 PPM	1		6	AT-L-OV (GC/FID)	OV List A	n-Butanol, Butyl Alcohol	
N-Butyl Alcohol	71-36-3	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	NIOSH CEILING 50 PPM	0.0069 PPM	1	10	6	AT-L-OV (GC/FID)	OV List A	n-Butanol, Butyl Alcohol	
N-Butyl Alcohol	71-36-3	525AT	525AT Badge	71.6	OSHA 100 PPM	NIOSH CEILING 50 PPM	0.0096 PPM	1		6	AT-L-OV (GC/FID)	OV List A	n-Butanol, Butyl Alcohol	
N-Hexane	110-54-3	546AT	546AT Badge	2.47	OSHA 500 PPM		0.14 PPM	0.6		6	AT-L-OV (GC/FID)	OV List A		
N-Hexane	110-54-3	566AT	566AT Badge	9.88	OSHA 500 PPM		0.036 PPM	0.6		6	AT-L-OV (GC/FID)	OV List A		
N-Hexane	110-54-3	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 500 PPM		0.0035 PPM	0.6	10	6	AT-L-OV (GC/FID)	OV List A		
N-Hexane	110-54-3	525AT	525AT Badge	60.9	OSHA 500 PPM		0.0058 PPM	0.6		6	AT-L-OV (GC/FID)	OV List A		
Nickel	7440-02-0	J5-024 SMR TAB	Smear Tab		OSHA 1 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		
Nickel	7440-02-0	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Nitrogen Dioxide #	10102-44-0	594AT #	594AT Badge	22.3		OSHA CEILING 5 PPM	0.025 PPM	0.5		6	MOD OSHA 182	Nitrogen Dioxide		
Nitrous Oxide	10024-97-2	575E	575E Badge	5.00	NIOSH 25 PPM		0.093 PPM	0.4		6	AT SOP L575	Nitrous Oxide		
Nitrous Oxide	10024-97-2	575F	575F Badge	16.0	NIOSH 25 PPM		0.029 PPM	0.4		6	AT SOP L575	Nitrous Oxide		
Nitrous Oxide	10024-97-2	575AT	575AT Badge	0.880	NIOSH 25 PPM		0.53 PPM	0.4		6	AT SOP L575	Nitrous Oxide		
N,N-Dimethylaniline	121-69-7	546AT	546AT Badge	2.08	OSHA 10 PPM		0.12 PPM	0.6		6	AT-L-OV (GC/FID)	OV List B		
N,N-Dimethylaniline	121-69-7	566AT	566AT Badge	8.32	OSHA 10 PPM		0.030 PPM	0.6		6	AT-L-OV (GC/FID)	OV List B		
N,N-Dimethylaniline #	121-69-7	525AT #	525AT Badge	59.4	OSHA 10 PPM		0.0042 PPM	0.6		6	AT-L-OV (GC/FID)	OV List B		
N,N-Dimethylformamide	68-12-2	546AT	546AT Badge	2.68	OSHA 10 PPM		0.34 PPM	1.3		6	AT-L-OV (GC/FID)	OV List A	DMF	
N,N-Dimethylformamide	68-12-2	566AT	566AT Badge	10.7	OSHA 10 PPM		0.084 PPM	1.3		6	AT-L-OV (GC/FID)	OV List A	DMF	
N,N-Dimethylformamide	68-12-2	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM		0.0091 PPM	1.3	10	6	AT-L-OV (GC/FID)	OV List A	DMF	
N,N-Dimethylformamide #	68-12-2	525AT #	525AT Badge	73.1	OSHA 10 PPM		0.012 PPM	1.3		6	AT-L-OV (GC/FID)	OV List A	DMF	
Nonane #	111-84-2	546AT #	546AT Badge	2.02			0.098 PPM	0.5		6	AT-L-OV (GC/FID)	OV List A		

Assay Technology Inc - Sampling Guide

Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com. Information in this table can change without notice.

OSP = Organic Solvent Panel. See X525-25AT

- Indicates the badge / chemical combination we recommend.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (ml/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments	
Nonane	111-84-2	566AT	566AT Badge		8.09		0.025 PPM	0.5		6	AT L-OV (GC/FID)	OV List A			
Nonane	111-84-2	525AT	525AT Badge		46.8		0.0042 PPM	0.5		6	AT L-OV (GC/FID)	OV List A			
N-Propyl Bromide	106-94-5	546AT	546AT Badge		2.07		0.40 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl bromide, 1-Bromopropane		
N-Propyl Bromide	106-94-5	566AT	566AT Badge		8.26		0.10 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl bromide, 1-Bromopropane		
N-Propyl Bromide	106-94-5	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min			0.017 PPM	2	12	6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane		
N-Propyl Bromide #	106-94-5	525AT #	525AT Badge		59.1		0.014 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane		
N-Vinyl-2-Pyrrolidone	88-12-0	525AT	525AT Badge		61.1		0.023 PPM	3		6	AT L-OV (GC/FID)	OV List A			
Octane #	111-65-9	546AT #	546AT Badge		2.14	OSHA 500 PPM	NIOSH CEILING 385 PPM	0.42 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Octane #	111-65-9	566AT	566AT Badge		8.58	OSHA 500 PPM	NIOSH CEILING 385 PPM	0.10 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Octane	111-65-9	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 500 PPM	NIOSH CEILING 385 PPM	0.0089 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
Octane	111-65-9	525AT	525AT Badge		44.7	OSHA 500 PPM	NIOSH CEILING 385 PPM	0.020 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Oil Mist (Gravimetric)	8012-95-1	J537PCW250	Cassette, PVC Pre-wt Cassette	2.0 L/min		OSHA 5 MG/M3	NIOSH STEL 10 MG/M3	0.021 MG/M3	20	300	6	MOD NIOSH 500	Gravimetric		
Oil Mist (IR)	8012-95-1	J537PCV250	Cassette, PVC Cassette	2.0 L/min		OSHA 5 MG/M3	NIOSH STEL 10 MG/M3			500	10	MOD NIOSH 5026			Bulk reference material required. Recommended sent prior to sampling to ensure method is applicable. If sampling will occur before the bulk material can be tested, use PVC-PW so total particulate (NIOSH 500) can be used if the oil is insoluble. For aqueous based metal working fluid, use method NIOSH 5524.
O-Phthalaldehyde	643-79-8	571AT	571AT Badge		6.18			0.0027 MG/M3	0.008		6	MOD OSHA 64	OPA	Cidex OPA	OPA can not be collected with other aldehydes. The PEL and STEL limits listed are Johnson & Johnson recommendations. Sampling rate has been lab verified.
O-Phthalaldehyde #	643-79-8	581AT #	581AT Badge		57.5			0.00029 MG/M3	0.008		6	MOD OSHA 64	OPA	Cidex OPA	OPA can not be collected with other aldehydes. The PEL and STEL limits listed are Johnson & Johnson recommendations. The 15 minute reporting limit is 0.0092 mg/m3. Please verify the sensitivity with the regulatory limit you plan to use.
Organic Solvent Panel	9705-25	525AT	525AT Badge								6	AT L-OV (GC/FID)	OV List Panel	Organic Solvent Panel (OSP) Search "OSP" for list of chemicals.	
O-Tolualdehyde	520-20-4	571AT	571AT Badge		6.30			0.20 PPM	3		6	MOD EPA TO-11	Aldehyde		
Ozone #	10028-15-6	586AT #	586AT Badge		15.2	OSHA 0.1 PPM	NIOSH CEILING 0.1 PPM	0.0070 PPM	0.1		6	MOD OSHA 214	Ozone		Not recommended for STEL monitoring. Sampling rate has been lab verified.
Pentane #	109-66-0	546AT #	546AT Badge		2.70	OSHA 1000 PPM	NIOSH STEL 610 PPM	0.16 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Pentane	109-66-0	566AT	566AT Badge		10.8	OSHA 1000 PPM	NIOSH STEL 610 PPM	0.039 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Pentane	109-66-0	525AT	525AT Badge		69.9	OSHA 1000 PPM	NIOSH STEL 610 PPM	0.0061 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Perchloroethylene	127-18-4	525AT	525AT Badge		66.4	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0093 PPM	2		6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Perchloroethylene #	127-18-4	566AT #	566AT Badge		7.10	OSHA 100 PPM	OSHA CEILING 200 PPM	0.087 PPM	2		6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	Sampling rate has been lab verified.
Perchloroethylene	127-18-4	546AT	546AT Badge		1.78	OSHA 100 PPM	OSHA CEILING 200 PPM	0.35 PPM	2		6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	Sampling rate has been lab verified.
Perchloroethylene	127-18-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 100 PPM	OSHA CEILING 200 PPM	0.0061 PPM	2	10	6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	Sampling rate has been lab verified.
PGMEA	108-65-6	546AT	546AT Badge		2.00		0.19 PPM	1		6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methoxy	Sampling rate has been lab verified.	
PGMEA	108-65-6	566AT #	566AT Badge		7.98		0.048 PPM	1		6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methoxy	Sampling rate has been lab verified.	
PGMEA	108-65-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0039 PPM	1	10	6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methoxy	Sampling rate has been lab verified.	
PGMEA	108-65-6	525AT	525AT Badge		57.8		0.0067 PPM	1		6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methoxy	Sampling rate has been lab verified.	
pH	A711-49	J5-025 G WIPE	Ghost Wipe					0.1		6	AT	pH			
Phenol	108-95-2	596AT	596AT Badge		90.3	OSHA 5 PPM	NIOSH CEILING 15.6 PPM	0.030 PPM	5		10	MOD OSHA 32	Phenol		The new Phenol badge, 596, replaced the 525 badge in September 2019.
Phenyl Ether	101-84-8	566AT	566AT Badge		6.71	OSHA 1 PPM		0.040 PPM	0.9		6	AT L-OV (GC/FID)	OV List B		
Phenyl Ether #	101-84-8	525AT #	525AT Badge		43.7	OSHA 1 PPM		0.0062 PPM	0.9		6	AT L-OV (GC/FID)	OV List B		
Potassium	7440-09-7	J5-024 SMR TAB	Smear Tab						10		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Potassium	7440-09-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 1 MG/M3		0.0026 MG/M3	2.5	1000	6	MOD OSHA ID 125G	ICP		
Potassium Hydroxide	1310-58-3	J537MCE208	Cassette, MCE Cassette	2.0 L/min				0.016 MG/M3	15	1000	6	MOD OSHA ID 125G			
Propionaldehyde #	123-38-6	571AT #	571AT Badge		9.58			0.0092 PPM	0.1		10	MOD EPA TO-11	Aldehyde		
Propionaldehyde	123-38-6	581AT	581AT Badge		76.5			0.0011 PPM	0.1		10	MOD EPA TO-11	Aldehyde		
Propyl Acetate #	109-60-4	546AT #	546AT Badge		2.27	OSHA 200 PPM		0.22 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propyl Acetate	109-60-4	566AT	566AT Badge		9.08	OSHA 200 PPM		0.055 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propyl Acetate	109-60-4	525AT	525AT Badge		63.8	OSHA 200 PPM		0.0078 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylene Glycol Methyl Ether	107-98-2	546AT	546AT Badge		2.42			0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A	1-Methoxy-2-propanol	
Propylene Glycol Methyl Ether #	107-98-2	566AT #	566AT Badge		9.70			0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A	1-Methoxy-2-propanol	
Propylene Glycol Methyl Ether	107-98-2	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min				0.011 PPM	2	10	6	AT L-OV (GC/FID)	OV List A	1-Methoxy-2-propanol	
Propylene Glycol Methyl Ether	107-98-2	525AT	525AT Badge		63.0			0.018 PPM	2		6	AT L-OV (GC/FID)	OV List A	1-Methoxy-2-propanol	
Propylene Oxide #	75-56-9	546AT #	546AT Badge		3.01	OSHA 100 PPM		0.29 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylene Oxide	75-56-9	566AT	566AT Badge		12.1	OSHA 100 PPM		0.073 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylene Oxide	75-56-9	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 100 PPM		0.0088 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Propylene Oxide	75-56-9	525AT	525AT Badge		76.5	OSHA 100 PPM		0.011 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylenimine #	75-55-8	585AT #	585AT Badge		10.0	OSHA 2 PPM		0.018 PPM	0.2		10	MOD OSHA 60	Amine		
Pyridine	110-86-1	546AT	546AT Badge		2.58	OSHA 5 PPM		0.22 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Pyridine	110-86-1	566AT	566AT Badge		10.3	OSHA 5 PPM		0.066 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Pyridine #	110-86-1	525AT #	525AT Badge		71.4	OSHA 5 PPM		0.0081 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Selenium	7782-49-2	J5-024 SMR TAB	Smear Tab			OSHA 0.2 MG/M3			5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Selenium	7782-49-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 0.2 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Sevoflurane #	28523-86-6	574AT #	574AT Badge		7.89			0.097 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Ultrane	Sampling rate has been lab verified.
Sevoflurane	28523-86-6	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min				0.015 PPM	3	12	6	MOD OSHA 103	Anesthetic Gas	Ultrane	
Crystalline-Silica (XRD) - Resp	7631-86-9	J537PCV350	Cassette, PVC Cassette	2.5 L/min						1000	10	MOD NIOSH 7500	Subcontract		For respirable Crystalline Silica with dust, use a three piece pre-weighed PVC cassette, J537PCV350. If dust is not needed, use J537PCV350. Attach a cyclone and adjust flow according to the manufacturers cyclone instructions for use. Assay rents SKC Aluminum Cylones. Assay part # R792 / SKC part #225-01-01. XRD analysis is subcontracted to another laboratory. Please contact our customer service department.
Crystalline-Silica (XRD) - Resp #	7631-86-9	J5-385-PW #	PVC 37 mm							10	MOD NIOSH 7500	Subcontract		Collect with one time use Parallel Particle Impactor, which contains a preweighed pvc filter. Unless specifically requested, dust will not be performed. Only Quartz, Tridymite, and Cristobalite. To learn more about the Particle Impactors: https://www.assaytech.com/whats-new/crystalline-dust-sampling-using-parallel-particle-impactors-now-available/	
Crystalline-Silica (XRD) - Total	7631-86-9	J537PCV250	Cassette, PVC Cassette	2.0 L/min						1000	10	MOD NIOSH 7500	Subcontract		For Total Crystalline Silica with Dust, use a two piece pre-weighed PVC cassette, J537PCV250. If Dust is not needed, use a J537PCV250 cassette. XRD analysis is subcontracted to another laboratory. Please contact our customer service department.
Silver	7440-22-4	J5-024 SMR TAB	Smear Tab						0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Silver	7440-22-4	J537MCE208	Cassette, MCE Cassette	2.0 L/min				0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Sodium	7440-23-5	J5-024 SMR TAB	Smear Tab						10		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Sodium	7440-23-5	J537MCE208	Cassette, MCE Cassette	2.0 L/min				0.010 MG/M3	10	1000	6	MOD OSHA ID 125G	ICP		
Stoddard Solvent	8052-41-3	J6-001	Tube, Charcoal 50-100mg Tube	0.20 L/min		OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	0.42 MG/M3	40	10	6	MOD NIOSH 1550	OV List C	Mineral Spirits	
Stoddard Solvent	8052-41-3	546AT	546AT Badge		1.76	OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	47 MG/M3	40		6	MOD NIOSH 1550	OV List C	Mineral Spirits	
Stoddard Solvent #	8052-41-3	566AT #	566AT Badge		7.03	OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	12 MG/M3	40		6	MOD NIOSH 1550	OV List C	Mineral Spirits	
Stoddard Solvent	8052-41-3	525AT	525AT Badge		53.3	OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	1.6 MG/M3	40		6	MOD NIOSH 1550	OV List C	Mineral Spirits	
Strontium	7440-24-6	J5-024 SMR TAB	Smear Tab						0.05		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Strontium	7440-24-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min				0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125G	ICP		
Styrene	100-42-5	546AT	546AT Badge		2.30	OSHA 100 PPM	OSHA CEILING 200 PPM	0.11 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Styrene #	100-42-5	566AT #	566AT Badge		9.21	OSHA 100 PPM	OSHA CEILING 200 PPM	0.027 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Styrene	100-42-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 100 PPM	OSHA CEILING 200 PPM	0.0024 PPM	0.5	10	6	AT L-OV (GC/FID)	OV List A		

Assay Technology Inc - Sampling Guide

Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com. Information in this table can change without notice.

OSP = Organic Solvent Panel. See X525-25AT

- Indicates the badge / chemical combination we recommend.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
Styrene	100-42-5	525AT	525AT Badge	58.4	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0042 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide.
1,1,3,3-Tetrafluoro-1-Propene #	29119-24-9	549AT #	549AT Badge	0.600			0.74 PPM	1		6	MOD OSHA 103	OV List A	Anesthetic Gas	
T-Butyl Alcohol #	75-65-0	566AT #	566AT Badge	10.7	OSHA 100 PPM	NIOSH STEL 150 PPM	0.064 PPM	1		6	AT L-OV (GC/FID)	OV List A		Not validated on the 546, 566, 525 nor 521 badges.
T-Butyl Alcohol	75-65-0	546AT	546AT Badge	2.67	OSHA 100 PPM	NIOSH STEL 150 PPM	0.26 PPM	1		6	AT L-OV (GC/FID)	OV List A		
T-Butyl Methyl Ether	1634-04-4	546AT	546AT Badge	2.44			0.21 PPM	0.9		6	AT L-OV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
T-Butyl Methyl Ether #	1634-04-4	566AT #	566AT Badge	9.77			0.053 PPM	0.9		6	AT L-OV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
T-Butyl Methyl Ether	1634-04-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0052 PPM	0.9	10	6	AT L-OV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
T-Butyl Methyl Ether	1634-04-4	525AT	525AT Badge	66.0			0.0079 PPM	0.9		6	AT L-OV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
Tert-Butyl Acetate #	540-88-5	546AT #	546AT Badge	2.13	OSHA 200 PPM		0.41 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Tert-Butyl Acetate	540-88-5	566AT	566AT Badge	8.50	OSHA 200 PPM		0.10 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Tert-Butyl Acetate	540-88-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.0088 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Tert-Butyl Acetate	540-88-5	525AT	525AT Badge	55.7	OSHA 200 PPM		0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Tetrahydrofuran #	109-99-9	546AT #	546AT Badge	2.70	OSHA 200 PPM		0.21 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Tetrahydrofuran	109-99-9	566AT	566AT Badge	10.8	OSHA 200 PPM		0.052 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Tetrahydrofuran	109-99-9	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.0057 PPM	0.8	10	6	AT L-OV (GC/FID)	OV List A		
Tetrahydrofuran	109-99-9	525AT	525AT Badge	77.7	OSHA 200 PPM		0.0073 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Thallium	7440-28-0	J5-024 SMR TAB	Smear Tab		OSHA 0.1 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Thallium	7440-28-0	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.1 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Tin	7440-31-5	J5-024 SMR TAB	Smear Tab		OSHA 2 MG/M3			2		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Tin	7440-31-5	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 2 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Titanium	7440-32-6	J5-024 SMR TAB	Smear Tab					0.2		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Titanium	7440-32-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125G	ICP		
Titanium Dioxide	13463-67-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00010 MG/M3	0.1	1000	6	MOD OSHA ID 125G	ICP		
Toluene	108-88-3	546AT	546AT Badge	2.37	OSHA 200 PPM	OSHA CEILING 300 PPM	0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Toluene #	108-88-3	566AT #	566AT Badge	9.48	OSHA 200 PPM	OSHA CEILING 300 PPM	0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Toluene	108-88-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.011 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
Toluene	108-88-3	525AT	525AT Badge	69.5	OSHA 200 PPM	OSHA CEILING 300 PPM	0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Total Hydrocarbons As N-Hexane	8002-05-9	546AT	546AT Badge	2.50			33 MG/M3	40		6	MOD NIOSH 1500	OV List C		All results reported in mg/m3. Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals. Aromatic and aliphatic hydrocarbons (eg Benzene, Toluene, Ethyl Benzene, Xylenes, n-Hexane) may be analyzed on the same badge/tube, but alcohols, ketones, and acrylates cannot(E.g. MTBE, ethanol, and acetone). Contact customer service with questions.
Total Hydrocarbons As N-Hexane #	8002-05-9	566AT #	566AT Badge	9.88			8.4 MG/M3	40		6	MOD NIOSH 1500	OV List C		All results reported in mg/m3. Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals. Aromatic and aliphatic hydrocarbons (eg Benzene, Toluene, Ethyl Benzene, Xylenes, n-Hexane) may be analyzed on the same badge/tube, but alcohols, ketones, and acrylates cannot(E.g. MTBE, ethanol, and acetone). Contact customer service with questions.
Total Hydrocarbons As N-Hexane	8002-05-9	J6-001	Tube, Charcoal 50-100mg Tube	0.20 L/min			0.42 MG/M3	40	10	6	MOD NIOSH 1500	OV List C		All results reported in mg/m3. Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals. Aromatic and aliphatic hydrocarbons (eg Benzene, Toluene, Ethyl Benzene, Xylenes, n-Hexane) may be analyzed on the same badge/tube, but alcohols, ketones, and acrylates cannot(E.g. MTBE, ethanol, and acetone). Contact customer service with questions.
Total Hydrocarbons As N-Hexane	8002-05-9	525AT	525AT Badge	60.9			1.4 MG/M3	40		6	MOD NIOSH 1500	OV List C		All results reported in mg/m3. Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals. Aromatic and aliphatic hydrocarbons (eg Benzene, Toluene, Ethyl Benzene, Xylenes, n-Hexane) may be analyzed on the same badge/tube, but alcohols, ketones, and acrylates cannot(E.g. MTBE, ethanol, and acetone). Contact customer service with questions.
Trans-1,2-Dichloroethylene	156-60-5	566AT	566AT Badge	9.32	OSHA 200 PPM		0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Trans-1,2-Dichloroethylene	156-60-5	546AT	546AT Badge	2.30	OSHA 200 PPM		0.46 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Trans-1,2-Dichloroethylene	156-60-5	525AT	525AT Badge	75.8	OSHA 200 PPM		0.014 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Trichloroethylene	79-01-6	546AT	546AT Badge	2.15	OSHA 100 PPM	OSHA CEILING 200 PPM	0.36 PPM	2		6	AT L-OV (GC/FID)	OV List A	TCE	Sampling rate has been lab verified.
Trichloroethylene #	79-01-6	566AT #	566AT Badge	8.60	OSHA 100 PPM	OSHA CEILING 200 PPM	0.090 PPM	2		6	AT L-OV (GC/FID)	OV List A	TCE	Sampling rate has been lab verified.
Trichloroethylene	79-01-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0078 PPM	2	10	6	AT L-OV (GC/FID)	OV List A	TCE	
Trichloroethylene	79-01-6	525AT	525AT Badge	72.9	OSHA 100 PPM	OSHA CEILING 200 PPM	0.011 PPM	2		6	AT L-OV (GC/FID)	OV List A	TCE	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Triethylenetetramine #	112-24-3	585AT #	585AT Badge	6.05			0.14 PPM	2.5		10	MOD OSHA 60	Amine		
Valeraldehyde #	110-62-3	571AT #	571AT badge	7.21			0.082 PPM	1		10	MOD EPA TO-11	Aldehyde		
Valeraldehyde	110-62-3	581AT	581AT badge	68.3			0.0087 PPM	1		10	MOD EPA TO-11	Aldehyde		
Vanadium	7440-62-2	J5-024 SMR TAB	Smear Tab					0.2		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Vanadium	7440-62-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00021 MG/M3	0.2	1000	6	MOD OSHA ID 125G	ICP		
Vinyl Acetate	108-05-4	546AT	546AT badge	2.47			0.24 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate #	108-05-4	566AT #	566AT badge	9.89			0.060 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate	108-05-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0059 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate	108-05-4	525AT	525AT badge	70.8			0.0084 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Chloride	75-01-4	546AT	546AT badge	2.90	OSHA 1 PPM		0.14 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		It is not recommended that Vinyl Chloride be collected on the 521/525 badge.
Vinyl Chloride #	75-01-4	566AT #	566AT badge	11.6	OSHA 1 PPM		0.035 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		It is not recommended that Vinyl Chloride be collected on the 521/525 badge.
Vinyl Toluene	25013-15-4	546AT	546AT badge	2.11	OSHA 100 PPM		0.10 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
Vinyl Toluene #	25013-15-4	566AT #	566AT badge	8.43	OSHA 100 PPM		0.026 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
Vinyl Toluene	25013-15-4	525AT	525AT badge	59.9	OSHA 100 PPM		0.0036 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
Vinylidene Chloride	75-35-4	546AT	546AT badge	2.33			0.27 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
Vinylidene Chloride	75-35-4	566AT	566AT badge	9.32			0.068 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
Vinylidene Chloride	75-35-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0063 PPM	1.2	10	6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
Vinylidene Chloride #	75-35-4	525AT #	525AT badge	63.9			0.0099 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
VM&P Naphtha #	8032-32-4	566AT #	566AT badge	8.92	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	9.3 MG/M3	40		6	MOD NIOSH 1550	OV List C	VMP Naphtha	
VM&P Naphtha	8032-32-4	J6-001	Tube, Charcoal 50-100mg Tube	0.20 L/min	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	0.42 MG/M3	40	10	6	MOD NIOSH 1550	OV List C	VMP Naphtha	
VM&P Naphtha	8032-32-4	546AT	546AT badge	2.23	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	37 MG/M3	40		6	MOD NIOSH 1550	OV List C	VMP Naphtha	
VM&P Naphtha	8032-32-4	525AT	525AT badge	56.1	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	1.5 MG/M3	40		6	MOD NIOSH 1550	OV List C	VMP Naphtha	
Xylenes	1330-20-7	546AT	546AT badge	1.89	OSHA 100 PPM	NIOSH STEL 150 PPM	0.25 PPM	1		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Xylenes #	1330-20-7	566AT #	566AT badge	7.54	OSHA 100 PPM	NIOSH STEL 150 PPM	0.084 PPM	1		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Xylenes	1330-20-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	NIOSH STEL 150 PPM	0.0048 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Xylenes	1330-20-7	525AT	525AT badge	60.5	OSHA 100 PPM	NIOSH STEL 150 PPM	0.0079 PPM	1		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Zinc	7440-66-6	J5-024 SMR TAB	Smear Tab					2		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Zinc	7440-66-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Zinc Chloride	7646-85-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0010 MG/M3	1	1000	6	MOD OSHA ID 125G	ICP		
Zinc Oxide	1314-13-2	J5-024 SMR TAB	Smear Tab		OSHA 1 MG/M3			3		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Zinc Oxide	1314-13-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0010 MG/M3	1	1000	6	MOD OSHA ID 125G	ICP		