

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
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	0.041 PPM	3		10	MOD EPA TO-11	Aldehyde		
Acetic Acid	64-19-7	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM		0.025 PPM	3	24	6	OSHA PV2119 MODIFIED	Acetic Acid		
Acetic Acid #	64-19-7	543AT #	543AT Badge	11	OSHA 10 PPM		0.23 PPM	3		6	OSHA PV2119 MODIFIED	Acetic Acid		Charcoal media encased in PTFE (eg AT 566, 546, and 525) can be used with a GC method like NIOSH 1603, but not with a 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	#6-001	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		This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
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		
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	#6-001	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		Sampling rate has been lab verified.
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	98-06-2	566AT	566AT Badge	8			0.26 PPM	5		6	AT L-OV (GC/FID)	OV List B		
Acrolein #	107-02-8	592AT #	592AT Badge	8.56	OSHA 0.1 PPM		0.053 PPM	0.5		10	MOD OSHA 52	Acrolein	Propenal	Sampling rate has been lab verified.
Acrolein	107-02-8	#6-117	Tube, XAD-2 (2-HMP) 75-1150mg Tube		OSHA 0.1 PPM			0.5		10	MOD OSHA 52	Acrolein	Propenal	
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	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 2 PPM	OSHA CEILING 10 PPM	0.0095 PPM	1	20	6	MOD NIOSH 1604	OV List A		
Acrylonitrile #	107-13-1	525AT #	525AT #	88	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	12.1	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 #	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 #	84.8	OSHA 2 PPM		0.0086 PPM	1.1		6	AT L-OV (GC/FID)	OV List A		
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 125	ICP		
Aluminum	7429-90-5	J5-024 SMR TAB	Smear Tab		OSHA 15 MG/M3			2		6	MOD OSHA ID 125	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 125	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 125	ICP		
Ammonia	7664-41-7	584AT #	584AT Badge	28.8	OSHA 50 PPM		0.31 PPM	3		6	MOD OSHA ID 188	Ammonia		Sampling rate has been lab verified.
Ammonia	7664-41-7	#6-010-06	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		6	MOD OSHA ID 188	Ammonia		Sampling rate has been lab verified.
Ammonia (Part. Screen) #	7664-41-7	584AT #	584AT #	23	OSHA 50 PPM		0.30 PPM	3		6	MOD OSHA ID 188	Ammonia		Sampling rate has been lab verified.
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		
Amyl Acetate #	628-63-7	566AT #	566AT #	8.03	OSHA 100 PPM		0.044 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			0.5		6	MOD OSHA ID 125	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 125	ICP		
Arsenic	7440-38-2	J5-025 G WIPE	Ghost Wipe		OSHA 0.01 MG/M3	NIOSH CEILING 0.002 MG/M3	0.5	0.5		6	MOD OSHA ID 125	ICP		J8109K: J5-025 + J8054 (Ghost wipe with Vial). Ghost wipes are pre-moistened
Arsenic	7440-38-2	J5-024 SMR TAB	Smear Tab		OSHA 0.01 MG/M3	NIOSH CEILING 0.002 MG/M3	0.5	0.5		6	MOD OSHA ID 125	ICP		J8114K: 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 125	ICP		
Barium	7440-39-3	J5-024 SMR TAB	Smear Tab		NIOSH 0.5 MG/M3			0.05		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use.
Barium	7440-39-3	J537MCE208	Cassette, MCE Cassette	2.0 L/min	NIOSH 0.5 MG/M3		0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125	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	#6-001	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 #	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 Organic Solvent Panel. (OSP). Search for "OSP" to see all the
Benzyl Alcohol #	100-51-6	566AT #	566AT Badge	8.5			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	#6-001	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 #	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		0.05		6	MOD OSHA ID 125	ICP		Does not include Beryllium Oxide. Contact Customer Service for Beryllium Oxide
Beryllium	7440-41-7	J5-025 G WIPE	Ghost Wipe		OSHA 0.002 MG/M3	OSHA CEILING 0.005 MG/M3		0.05		6	MOD OSHA ID 125	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-
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 125	ICP		
Boron	7440-42-8	J5-024 SMR TAB	Smear Tab					0.5		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use.
Boron	7440-42-8	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Bromine	7726-95-6	J5-3006	Cassette, PTFE Ag membrane	1.0 L/min	OSHA 0.1 PPM		0.0016 PPM	5	360	6	MOD NIOSH 6011	Halogen		
1,3-Butadiene	106-99-0	546AT	546AT Badge	3.2	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 525 badge.
1,3-Butadiene #	106-99-0	566AT #	566AT #	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 525 badge.
1,3-Butadiene	106-99-0	#6-001	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 525 badge.
1,4-Butanediamine	110-60-1	585AT	585AT Badge	7.87			0.073 PPM	1		10	MOD OSHA 60	Amine		
2-Butanol	78-92-2	546AT	546AT Badge	2.67	OSHA 150 PPM	NIOSH STEL 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 #	10.7	OSHA 150 PPM	NIOSH STEL 150 PPM	0.045 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	sec-Butyl Alcohol	
2-Butoxyethanol	111-76-2	546AT	546AT Badge	2.11	OSHA 50 PPM		1.0 PPM	5		6	AT L-OV (GC/FID)	OV List A	Butyl Cellulosive	Sampling rate has been lab verified.
2-Butoxyethanol #	111-76-2	566AT #	566AT #	8.43	OSHA 50 PPM		0.26 PPM	5		6	AT L-OV (GC/FID)	OV List A	Butyl Cellulosive	Sampling rate has been lab verified.
2-Butoxyethanol	111-76-2	#6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 50 PPM		0.022 PPM	5	10	6	AT L-OV (GC/FID)	OV List A	Butyl Cellulosive	
2-Butoxyethanol	111-76-2	525AT	525AT Badge	52.7	OSHA 50 PPM		0.041 PPM	5		6	AT L-OV (GC/FID)	OV List A	Butyl Cellulosive	Sampling rate has been lab verified.
n-Butyl Acetate #	123-86-4	546AT #	546AT Badge	1.99	OSHA 150 PPM		0.20 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		0.050 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			

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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	
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	Sampling rate has been lab verified.	
N-Butyl Alcohol	71-36-3	J6-001	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	This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the	
T-Butyl Alcohol	75-65-0	566AT	566AT 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 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			
Butyl Glycidyl Ether #	192337	566AT #	566AT Badge		7.7	OSHA 50 PPM	NIOSH CEILING 5.6 PPM	0.051 PPM	1	6	AT L-OV (GC/FID)	OV List B			
Butyl Glycidyl Ether	192337	546AT	546AT Badge		1.92	OSHA 50 PPM	NIOSH CEILING 5.6 PPM	0.20 PPM	1	6	AT L-OV (GC/FID)	OV List B			
Butyl Glycidyl Ether	192337	525AT	525AT Badge		58.1	OSHA 50 PPM	NIOSH CEILING 5.6 PPM	0.0067 PPM	1	6	AT L-OV (GC/FID)	OV List B			
Butyl Methacrylate	97-88-1	566AT	566AT Badge		7.4			0.063 PPM	1.3	6	AT L-OV (GC/FID)	OV List A			
Butyl Methacrylate	97-88-1	525AT	525AT Badge		56.5			0.0082 PPM	1.3	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			0.0079 PPM	0.9	6	AT L-OV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE		
Butylamine #	109-73-9	585AT #	585AT #		7.04	OSHA 5 PPM		0.049 PPM	0.5	10	MOD OSHA 60	Amine		Sampling rate has been lab verified.	
Butyraldehyde #	123-72-8	571AT #	571AT #		8.2			0.026 PPM	0.3	10	MOD EPA TO-11	Aldehyde	Butanal		
Butyraldehyde	123-72-8	J6-119	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	MOD EPA TO-11	Aldehyde	Butanal		
Cadmium	7440-43-9	J5-025 G WIPE	Ghost Wipe			OSHA 0.005 MG/M3		0.05	6	MOD OSHA ID 125	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	MOD OSHA ID 125	ICP			J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water	
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 125	ICP		
Calcium	7440-70-2	J5-024 SMR TAB	Smear Tab					10	6	MOD OSHA ID 125	ICP			J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.	
Calcium	7440-70-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min				0.0021 MG/M3	2	1000	6	MOD OSHA ID 125	ICP		
Camphor	76-22-2	546AT	546AT Badge		1.64	OSHA 2 MG/M3		0.12 PPM	0.6	6	AT L-OV (GC/FID)	OV List B			
Camphor	76-22-2	566AT	566AT Badge		6.43	OSHA 2 MG/M3		0.031 PPM	0.6	6	AT L-OV (GC/FID)	OV List B			
Camphor #	76-22-2	525AT #	525AT #		47.7	OSHA 2 MG/M3		0.0042 PPM	0.6	6	AT L-OV (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 5000	Gravimetric		
Carbon Tetrachloride	56-23-5	546AT	546AT Badge		1.85	OSHA 10 PPM	OSHA CEILING 25 PPM	0.90 PPM	5	6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane		
Carbon Tetrachloride	56-23-5	566AT	566AT Badge		7.38	OSHA 10 PPM	OSHA CEILING 25 PPM	0.22 PPM	5	6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane		
Carbon Tetrachloride	56-23-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 10 PPM	OSHA CEILING 25 PPM	0.017 PPM	5	10	6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride #	56-23-5	525AT #	525AT #		68.9	OSHA 10 PPM	OSHA CEILING 25 PPM	0.024 PPM	5	6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane		
Chlorine	7782-50-5	J5-9006	Cassette, PTFE Ag membrane	1.0 L/min				0.0014 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	AT L-OV (GC/FID)	OV List A			
Chlorobenzene #	108-90-7	566AT #	566AT #		8.64	OSHA 75 PPM		0.031 PPM	0.6	6	AT L-OV (GC/FID)	OV List A			
Chlorobenzene	108-90-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 75 PPM		0.0027 PPM	0.6	10	6	AT L-OV (GC/FID)	OV List A		
Chlorobenzene	108-90-7	525AT	525AT Badge		62.2	OSHA 75 PPM		0.0044 PPM	0.6	6	AT L-OV (GC/FID)	OV List A			
Chloroform	67-66-3	546AT	546AT Badge		2.1		OSHA CEILING 50 PPM	0.61 PPM	3	6	AT L-OV (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	AT L-OV (GC/FID)	OV List A	Trichloromethane	Sampling rate has been lab verified.	
Chloroform	67-66-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			OSHA CEILING 50 PPM	0.013 PPM	3	10	6	AT L-OV (GC/FID)	OV List A	Trichloromethane	
Chloroform #	67-66-3	525AT #	525AT #		73.9		OSHA CEILING 50 PPM	0.017 PPM	3	6	AT L-OV (GC/FID)	OV List A	Trichloromethane	This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the	
Chromium	7440-47-3	J5-025 G WIPE	Ghost Wipe			OSHA 1 MG/M3		0.05	6	MOD OSHA ID 125	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					0.5	6	MOD OSHA ID 125	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 125	ICP		
Chromium Hexavalent Ion	18540-29-9	J537PVC250	Cassette, PVC Cassette	2.0 L/min		OSHA 0.005 MG/M3	OSHA CEILING 0.1 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	
Cobalt	7440-48-4	J5-024 SMR TAB	Smear Tab			OSHA 0.1 MG/M3		0.2	6	MOD OSHA ID 125	ICP			J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water	
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 125	ICP		
Copper	7440-50-8	J5-024 SMR TAB	Smear Tab			OSHA 0.1 MG/M3		0.5	6	MOD OSHA ID 125	ICP			J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water	
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 125	ICP		
Cresol, Total	1319-77-3	J6-095	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 #					0.027 PPM	5	10	MOD OSHA 32	Phenol			
Crotonaldehyde #	4170-30-3	571AT #	571AT #		8.59	OSHA 2 PPM		0.0042 PPM	0.05	10	MOD EPA TO-11	Aldehyde			
Crotonaldehyde	4170-30-3	581AT	581AT Badge		71.5	OSHA 2 PPM		0.00051 PPM	0.05	10	MOD EPA TO-11	Aldehyde			
Cumene	98-82-8	546AT	546AT Badge		2.09			0.10 PPM	0.5	6	AT L-OV (GC/FID)	OV List A			
Cumene #	98-82-8	566AT #	566AT #		8.36			0.025 PPM	0.5	6	AT L-OV (GC/FID)	OV List A			
Cumene	98-82-8	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min				0.0021 PPM	0.5	10	6	AT L-OV (GC/FID)	OV List A		
Cumene	98-82-8	525AT	525AT Badge		54.6			0.0039 PPM	0.5	6	AT L-OV (GC/FID)	OV List A			
Ethyl 2-Cyanoacrylate #	7085-85-0	595AT #	595AT #		12.5			0.0098 PPM	0.3	10	MOD OSHA 55			Badges must be shipped on ice and arrive at the lab within 3 days of sampling.	
Cyclohexane #	110-82-7	546AT #	546AT #		2.21	OSHA 300 PPM		0.16 PPM	0.6	6	AT L-OV (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	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.	
Cyclohexane	110-82-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 300 PPM		0.00036 PPM	0.6	10	6	AT L-OV (GC/FID)	OV List A	Sampling rate has been lab verified.	
Cyclohexane	110-82-7	525AT	525AT Badge		59.9	OSHA 300 PPM		0.0061 PPM	0.6	6	AT L-OV (GC/FID)	OV List A			
Cyclohexanol	108-93-0	546AT	546AT Badge		2.29	OSHA 50 PPM		0.16 PPM	0.7	6	AT L-OV (GC/FID)	OV List A			
Cyclohexanol #	108-93-0	566AT #	566AT #		9.16	OSHA 50 PPM		0.039 PPM	0.7	6	AT L-OV (GC/FID)	OV List A			
Cyclohexanol	108-93-0	525AT	525AT Badge		56.7	OSHA 50 PPM		0.0063 PPM	0.7	6	AT L-OV (GC/FID)	OV List A			
Cyclohexanone	108-94-1	546AT	546AT Badge		2.34	OSHA 50 PPM		0.13 PPM	0.6	6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.	
Cyclohexanone #	108-94-1	566AT #	566AT #		9.37	OSHA 50 PPM		0.033 PPM	0.6	6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.	
Cyclohexanone	108-94-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 50 PPM		0.0031 PPM	0.6	10	6	AT L-OV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	525AT	525AT Badge		66.8	OSHA 50 PPM		0.0047 PPM	0.6	6	AT L-OV (GC/FID)	OV List A			
Cyclohexylamine #	108-91-8	585AT #	585AT #		7.41			0.035 PPM	0.5	10	MOD OSHA 60	Amine		This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the	
Desflurane	57041-67-5	574AT	574AT Badge		8.56			0.11 PPM	3	6	MOD OSHA 103	Anesthetic Gas	Suprane	Sampling rate has been lab verified.	
Desflurane	57041-67-5	J6-001	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	546AT	546AT Badge		2.13	OSHA 50 PPM		0.21 PPM	1	6	AT L-OV (GC/FID)	OV List A			
Diacetone Alcohol #	123-42-2	566AT #	566AT #		8.5	OSHA 50 PPM		0.052 PPM	1	6	AT L-OV (GC/FID)	OV List A			
1,5-Diaminopentane	462-94-2	585AT	585AT Badge		7.3			0.068 PPM	1	10	MOD OSHA 60	Amine			
1,3-Diaminopropane	109-76-2	585AT	585AT Badge		8.6			0.080 PPM	1	10	MOD OSHA 60	Amine			
1,2-Dibromobenzene #	106-93-4	566AT #	566AT #		6.67			0.12 PPM	3	6	AT L-OV (GC/FID)	OV List A	Ethylene Dibromide		

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-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 200 PPM		0.013 PPM	2		6	AT L-OV (GC/FID)	OV List A		
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	J6-001	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 # 156-40-5)
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 # 156-40-5)
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 # 156-40-5)
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	
Dicyclopentadiene	77-73-6	546AT	546AT Badge	1.99			0.39 PPM	2		6	AT L-OV (GC/FID)	OV List B		
Dicyclopentadiene	77-73-6	566AT	566AT Badge	7.97			0.097 PPM	2		6	AT L-OV (GC/FID)	OV List B		
Dicyclopentadiene #	77-73-6	525AT #	525AT Badge	57.8			0.013 PPM	2		6	AT L-OV (GC/FID)	OV List B		
Diethanolamine #	111-42-2	585AT #	585AT Badge	7.19	NIOSH 3 PPM		0.067 PPM	1	10	MOD OSHA 60		Amine		Sampling rate has been lab verified.
Diethyl Ketone	96-22-0	546AT	546AT Badge	2.37			0.75 PPM	3		6	AT L-OV (GC/FID)	OV List A	3-Pentanone	
Diethyl Ketone #	96-22-0	566AT #	566AT Badge	9.47			0.19 PPM	3		6	AT L-OV (GC/FID)	OV List A	3-Pentanone	
Diethyl Ketone	96-22-0	525AT	525AT Badge	66.6			0.027 PPM	3		6	AT L-OV (GC/FID)	OV List A	3-Pentanone	
Diethylamine #	109-89-7	585AT #	585AT Badge	8.67	OSHA 25 PPM	NIOSH STEL 250 PPM	0.040 PPM	0.5	10	MOD OSHA 60		Amine		
Diethylene Glycol Butyl Ether	112-34-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.031 PPM	10	10	6	AT L-OV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Butyl Ether #	112-34-5	566AT #	566AT Badge	7.19			0.44 PPM	10		6	AT L-OV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Butyl Ether	112-34-5	546AT	546AT Badge	1.8			1.7 PPM	10		6	AT L-OV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Butyl Ether	112-34-5	525AT	525AT Badge	54.2			0.058 PPM	10		6	AT L-OV (GC/FID)	OV List A	Butyl Carbitol	
Diethylamine #	111-40-0	585AT #	585AT Badge	7.26	NIOSH 1 PPM		0.020 PPM	0.3	10	MOD OSHA 60		Amine		
Diisobutyl Ketone #	108-83-8	566AT #	566AT Badge	7.69	OSHA 50 PPM		0.042 PPM	0.9		6	AT L-OV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Diisobutyl Ketone	108-83-8	546AT	546AT Badge	1.92	OSHA 50 PPM		0.17 PPM	0.9		6	AT L-OV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Diisobutyl Ketone	108-83-8	525AT	525AT Badge	56.4	OSHA 50 PPM		0.0057 PPM	0.9		6	AT L-OV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Dimethylamine #	124-40-3	585AT #	585AT Badge	11.1	OSHA 10 PPM		0.031 PPM	0.3	10	MOD OSHA 60		Amine		
N,N-Dimethylaniline	121-69-7	546AT	546AT Badge	2.08			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			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			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	Sampling rate has been lab verified.
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	Sampling rate has been lab verified.
N,N-Dimethylformamide	68-12-2	J6-001	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	Sampling rate has been lab verified.
Dimethylsulfoxide #	67-68-5	566AT #	566AT Badge	10.4			0.63 PPM	10		10	AT L-OV (GC/FID)	MEKO	DMSO	Analysis only compatible with Methyl Ethyl Ketoxime. Analyzed in the California
Dimethylsulfoxide	67-68-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.065 PPM	10	10	10	AT L-OV (GC/FID)	MEKO	DMSO	
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	J6-001	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.
1,3-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	2.6			0.26 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Dipropylene Glycol Methylene Ether	34590-94-8	546AT	546AT Badge	1.88	OSHA 100 PPM		3.1 PPM	17		6	AT L-OV (GC/FID)	OV List B		
Dipropylene Glycol Methylene Ether #	34590-94-8	566AT #	566AT Badge	7.52	OSHA 100 PPM		0.78 PPM	17		6	AT L-OV (GC/FID)	OV List B		
Dipropylene Glycol Methylene Ether	34590-94-8	525AT	525AT Badge	55.8	OSHA 100 PPM		0.10 PPM	17		6	AT L-OV (GC/FID)	OV List B		
Dust, Respirable	1318-93-0	537PVC/PW350	Cassette, PVC Pre-wt Cassette	2.5 /min	OSHA 5 MG/M3		0.017 MG/M3	20	400	6	MOD NIOSH 600		Gravimetric	Attach a cyclone and adjust flow according to the manufacturers cyclone
Dust, Total	1318-93-0	637PVC/PW250	Cassette, PVC Pre-wt Cassette	1.0 /min	OSHA 15 MG/M3		0.20 PPM	20		6	MOD NIOSH 600		Gravimetric	Flow Rate: 1 to 2 L/min; Volume: VOL-MIN: 7 L @ 15 mg/m ³ -MAX: 133 L @ 15
Enflurane #	13838-16-9	574AT #	574AT Badge	8.15			MOD OSHA 103	3		6	MOD OSHA 103		Anesthetic Gas	Ethrane
Enflurane	13838-16-9	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min			0.017 PPM	3	12	6	MOD OSHA 103		Anesthetic Gas	Ethrane
Epichlorohydrin	106-89-8	546AT	546AT Badge	2.39	OSHA 5 PPM		0.28 PPM	1.2		6	AT L-OV (GC/FID)	OV List A		
Epichlorohydrin	106-89-8	566AT	566AT Badge	9.54	OSHA 5 PPM		0.069 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		0.0065 PPM	1.2	10	6	AT L-OV (GC/FID)	OV List A		
Epichlorohydrin #	106-89-8	525AT #	525AT Badge	65	OSHA 5 PPM		0.010 PPM	1.2		6	AT L-OV (GC/FID)	OV List A		
Ethanolamine #	141-43-5	585AT #	585AT Badge	7.7	OSHA 3 PPM		0.032 PPM	0.3	10	MOD OSHA 60		Amine		Sampling rate has been lab verified.
2-Ethoxyethanol	110-80-5	546AT	546AT Badge	2.42	OSHA 200 PPM		0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol #	110-80-5	566AT #	566AT Badge	9.66	OSHA 200 PPM		0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol	110-80-5	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	Cellosolve	
2-Ethoxyethanol	110-80-5	525AT	525AT Badge	65.5	OSHA 200 PPM		0.017 PPM	2		6	AT L-OV (GC/FID)	OV List A	Cellosolve	
Ethyl Acetate #	141-78-6	546AT #	546AT Badge	2.25	OSHA 400 PPM		0.52 PPM	2		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 PPM	2		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 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
Ethyl Acetate	141-78-6	525AT	525AT Badge	71.6	OSHA 400 PPM		0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A		This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the
Ethyl Acrylate	140-88-5	546AT	546AT Badge	9.16	OSHA 25 PPM		0.20 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acrylate	140-88-5	566AT	566AT Badge	3.39	OSHA 25 PPM		0.050 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acrylate #	140-88-5	525AT #	525AT Badge	61.7	OSHA 25 PPM		0.0074 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Ethyl Alcohol #	64-17-5	546AT #	546AT Badge	13.5	OSHA 1000 PPM		3.3 PPM	10		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 PPM	10		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 PPM	10	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 PPM	10		6	AT L-OV (GC/FID)	OV List A	Ethanol	This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the
Ethyl Ether #	60-29-7	546AT #	546AT Badge	2.82	OSHA 400 PPM		0.73 PPM	3		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 PPM	3		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 PPM	3	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 PPM	3		6	AT L-OV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Methacrylate #	97-63-2	566AT #	566AT Badge	8.41			0.053 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Ethyl Methacrylate	97-63-2	546AT	546AT Badge	2.1			0.21 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Ethyl Methacrylate	97-63-													

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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
Ethylethanolamine #	107-15-3	S85AT #	S85AT Badge	9.59	OSHA 10 PPM		0.027 PPM	0.3		10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
Formaldehyde #	50-00-0	S71AT #	S71AT Badge	16.2	OSHA 0.75 PPM	OSHA STEL 2 PPM	0.010 PPM	0.1		6	MOD OSHA 1007	Aldehyde	Formalin	For more information about using badges for formaldehyde from Formalin, go to The S80 badge has been replaced by the S81 badge. For more information about
Formaldehyde	50-00-0	S81AT	S81AT Badge	124	OSHA 0.75 PPM	OSHA STEL 2 PPM	0.0014 PPM	0.1		6	MOD OSHA 1007	Aldehyde	Formalin	
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 PPM	0.1	15	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	0.000041 PPM	0.008	24	6	MOD NIOSH 2532	Aldehyde	Cidex	
Glutaraldehyde	111-30-8	S71AT	S71AT Badge	7.24		NIOSH CEILING 0.2 PPM	0.00056 PPM	0.008	6	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	0.000058 PPM	0.02	120	6	MOD OSHA 64	Aldehyde	Cidex	
Glutaraldehyde #	111-30-8	S81AT #	S81AT Badge	63.2		NIOSH CEILING 0.2 PPM	0.000064 PPM	0.008	6	6	MOD OSHA 64	Aldehyde	Cidex	
Halothane #	151-67-7	S74AT #	S74AT #	8.7			0.12 PPM	4		6	MOD OSHA 103	Anesthetic Gas		Sampling rate has been lab verified.
Halothane	151-67-7	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min			0.021 PPM	4	12	6	MOD OSHA 103	Anesthetic Gas		
HCFC-1233Zd(E) #	102687-65-0	S49AT #	S49AT Badge	0.6			0.65 PPM	1	10	6	AT L-OV (GC/FID)	Freon		Sampling rate has been lab verified.
Heptane #	142-82-5	S46AT #	S46AT Badge	2.14	OSHA 500 PPM		0.12 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Heptane	142-82-5	S66AT	S66AT Badge	8.54	OSHA 500 PPM		0.030 PPM	0.5		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 PPM	0.5	10	6	AT L-OV (GC/FID)	OV List A		
Heptane	142-82-5	S25AT	S25AT Badge	56.3	OSHA 500 PPM		0.0045 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the
2-Hexanone	110-43-0	S46AT	S46AT Badge	2.14	OSHA 100 PPM		0.15 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl amyl Ketone	
2-Hexanone #	110-43-0	S66AT #	S66AT #	63.6	OSHA 100 PPM		0.036 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl amyl Ketone	
2-Hexanone	110-43-0	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0031 PPM	0.7	10	6	AT L-OV (GC/FID)	OV List A	Methyl amyl Ketone	
2-Hexanone	110-43-0	S25AT	S25AT Badge	53.6	OSHA 100 PPM		0.0058 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl amyl Ketone	
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 PPM	0.8	240	10	MOD OSHA 42	Isocyanates	HDI	Sample openface (See method)
Hexanal #	66-25-1	S71AT #	S71AT #	6.48			0.24 PPM	3		10	MOD EPA TO-11	Aldehyde	Hexanaldehyde	
Hexanal	66-25-1	S81AT	S81AT Badge	63			0.024 PPM	3		10	MOD EPA TO-11	Aldehyde	Hexanaldehyde	
N-Hexane #	110-54-3	S46AT #	S46AT #	2.47	OSHA 500 PPM		0.14 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
N-Hexane	110-54-3	S66AT	S66AT Badge	9.88	OSHA 500 PPM		0.036 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
N-Hexane	110-54-3	J6-001	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	S25AT	S25AT Badge	60.9	OSHA 500 PPM		0.0058 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the
Total Hydrocarbons As N-Hexane	2228840	S46AT	S46AT Badge	2.5			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
Total Hydrocarbons As N-Hexane #	2228840	S66AT #	S66AT #	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
Total Hydrocarbons As N-Hexane	2228840	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
Total Hydrocarbons As N-Hexane	2228840	S25AT	S25AT 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
2-Hexanone #	591-78-6	S66AT #	S66AT #	9.16	OSHA 100 PPM		0.028 PPM	0.5		6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	S46AT	S46AT Badge	2.29	OSHA 100 PPM		0.11 PPM	0.5		6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0025 PPM	0.5	10	6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	S25AT	S25AT Badge	78.8	OSHA 100 PPM		0.0032 PPM	0.5		6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
Hydrogen Peroxide #	7722-84-1	S87AT #	S87AT Badge	137	OSHA 1 PPM		0.020 PPM	1.8		6	MOD OSHA V6	Subcontract		The S87 monitors are manufactured and analyzed by Advanced Chemical Sensor, AIHA LAP, LLC 102047. Badges are sent to AT Labs and subcontracted to ACS. JB114K: J5-024 + JB054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Indium	7440-74-6	J5-024 SMR TAB	Smear Tab					0.5		6	MOD OSHA ID 125	ICP		
Indium	7440-74-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Iron	7439-89-6	J5-024 SMR TAB	Smear Tab					2		6	MOD OSHA ID 125	ICP		
Iron	7439-89-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0021 MG/M3	2	1000	6	MOD OSHA ID 125	ICP		JB114K: J5-024 + JB054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (JB055) available with shipment.
Iron(III) Oxide	1309-37-1	J5-024 SMR TAB	Smear Tab					3		6	MOD OSHA ID 125	ICP		JB114K: J5-024 + JB054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (JB055) 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 125	ICP		
Isoamyl Alcohol #	123-51-3	S66AT #	S66AT #	9.77	OSHA 100 PPM		0.03 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	123-51-3	S46AT	S46AT Badge	2.44	OSHA 100 PPM		0.21 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	123-51-3	S25AT	S25AT Badge	76.7	OSHA 100 PPM		0.0068 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	123-51-3	S46AT #	S46AT #	2.13	OSHA 150 PPM		0.21 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	110-19-0	S46AT #	S46AT #	8.5	OSHA 150 PPM		0.052 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	110-19-0	S25AT	S25AT Badge	63.6	OSHA 150 PPM		0.0069 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	78-83-1	S46AT	S46AT Badge	2.67	OSHA 100 PPM		0.18 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Isobutanol	Sampling rate has been lab verified.
Isoamyl Alcohol #	78-83-1	S66AT #	S66AT #	10.7	OSHA 100 PPM		0.045 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Isobutanol	Sampling rate has been lab verified.
Isoamyl Alcohol	78-83-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0048 PPM	0.7	10	6	AT L-OV (GC/FID)	OV List A	Isobutanol	Sampling rate has been lab verified.
Isoamyl Alcohol	78-83-1	S25AT	S25AT Badge	67.2	OSHA 100 PPM		0.0072 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Isobutanol	Sampling rate has been lab verified.
Isoflurane #	26675-46-7	S74AT #	S74AT #	7.87	CAL 2 PPM		0.11 PPM	3		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 PPM	3	12	6	MOD OSHA 103	Anesthetic Gas	Forane	
Isoflurane	78-59-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 25 PPM		0.0022 PPM	0.6	10	6	AT L-OV (GC/FID)	OV List B		
Isoflurane #	78-59-1	S66AT #	S66AT #	7.8	OSHA 25 PPM		0.028 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Isoflurane	78-59-1	S46AT	S46AT Badge	1.95	OSHA 25 PPM		0.11 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Isoflurane	78-59-1	S25AT	S25AT Badge	50	OSHA 25 PPM		0.0044 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Isoflurane Diisocyanate	4098-71-9	J5-9002	Cassette, GFF w/ 1,,PP	1.0 L/min		0.02 PPM	0.000046 PPM	0.2	240	10	MOD OSHA 42	Isocyanates	IPDI	Sample openface (See method)
Isopropyl Acetate #	108-21-4	S46AT #	S46AT #	2.27	OSHA 250 PPM		0.22 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate #	108-21-4	S66AT #	S66AT #	9.08	OSHA 250 PPM		0.055 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 250 PPM		0.0050 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	S25AT	S25AT Badge	54.6	OSHA 250 PPM		0.0091 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isopropyl Alcohol #	67-63-0	S46AT #	S46AT #	2.96	OSHA 400 PPM	NIOSH STEL 500 PPM	0.29 PPM	1		6	AT L-OV (GC/FID)	OV List A	IPA	Sampling rate has been lab verified.
Isopropyl Alcohol	67-63-0	S66AT	S66AT Badge	11.8	OSHA 400 PPM	NIOSH STEL 500 PPM	0.072 PPM	1		6	AT L-OV (GC/FID)	OV List A	IPA	Sampling rate has been lab verified.
Isopropyl Alcohol	67-63-0	J6-001	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	S25AT	S25AT Badge	67.2	OSHA 400 PPM	NIOSH STEL 500 PPM	0.013 PPM	1		6	AT L-OV (GC/FID)	OV List A	IPA	This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Lead	7439-92-1	J5-024 SMR TAB	Smear Tab		OSHA 0.05 MG/M3			0.5		6	MOD OSHA ID 125	ICP		JB114K: J5-024 + JB054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (JB055) available with shipment.
Lead	7439-92-1	J5-025 G WIPE	Ghost Wipe		OSHA 0.05 MG/M3			5		6	MOD OSHA ID 125	ICP		JB114K: J5-025 + JB054 (Ghost wipe with Vial). Ghost wipes are pre-moistened with DI water. Additional DI water is not necessary. Due to background levels, the
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 125	ICP		
D-Limonene	5989-27-5	S46AT	S46AT Badge	1.96			0.38 PPM	2		6	AT L-OV (GC/FID)	OV List A		
D-Limonene #	5989-27-5	S66AT #	S66AT #	7.86			0.095 PPM	2		6	AT L-OV (GC/FID)	OV List A		
D-Limonene	5989-27-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0075 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
D-Limonene	5989-27-5	S25AT	S25AT Badge	57.2			0.013 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Magnesium	7439-95-4	J5-024 SMR TAB	Smear Tab		OSHA 15 MG/M3			0.5		6	MOD OSHA ID 125	ICP		JB114K: J5-024 + JB054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (JB055) available with shipment.
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 125	ICP		JB114K: J5-024 + JB054 (Smear

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- 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
Methamphetamine	537-46-2	J5-025 G WIPE	Ghost Wipe					1		10	HPLC	HPLC		Buy wipe kit, J8110K. Kit contains a ghost wipe, wipe template, return vial, and the analysis cost. Price including the analysis: \$100. The analysis is not part of the lab's ISO 17025 accreditation.
2-Methoxyethanol #	109-86-4	566AT #	566AT Badge	10.5	OSHA 25 PPM		0.14 PPM	2.2		6	AT L-OV (GC/FID)	OV List A	Methyl Cellosolve	
2-Methoxyethanol	109-86-4	566AT	566AT Badge	2.63	OSHA 25 PPM		0.56 PPM	2.2		6	AT L-OV (GC/FID)	OV List A	Methyl Cellosolve	
2-Methoxyethanol	109-86-4	525AT	525AT Badge	59.4	OSHA 25 PPM		0.025 PPM	2.2		6	AT L-OV (GC/FID)	OV List A	Methyl Cellosolve	
2-Methoxyethyl Acetate #	110-49-6	566AT #	566AT Badge	8	OSHA 25 PPM		0.27 PPM	5		6	AT L-OV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
2-Methoxyethyl Acetate	110-49-6	546AT	546AT Badge	2	OSHA 25 PPM		1.1 PPM	5		6	AT L-OV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
2-Methoxyethyl Acetate	110-49-6	525AT	525AT Badge	59.9	OSHA 25 PPM		0.036 PPM	5		6	AT L-OV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
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	2.6	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	9.89	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	J6-01D	Tube, Silica Gel 75-150mg Tube	0.10 L/min	OSHA 200 PPM		0.048 PPM	3	5	6	MOD NIOSH 2000	Methanol	Methanol	
Methyl Alcohol #	67-56-1	546AT #	546AT Badge	4.06	OSHA 200 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 525 badge.
Methyl Alcohol	67-56-1	566AT	566AT Badge	16.2	OSHA 200 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 525 badge.
Methyl Alcohol	67-56-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.048 PPM	3	10	6	AT L-OV (GC/FID)	OV List A	Methanol	
Methyl Alcohol	67-56-1	545BH	545BH Badge	4.5	OSHA 200 PPM		1.1 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methanol	
Methyl Ethyl Ketone #	78-93-3	546AT #	546AT Badge	2.8	OSHA 200 PPM		0.20 PPM	0.8		6	AT L-OV (GC/FID)	OV List A	2-Butanone, Ethyl methyl ketone, MEK	Sampling rate has been lab verified.
Methyl Ethyl Ketone	78-93-3	566AT	566AT Badge	11.2	OSHA 200 PPM		0.050 PPM	0.8		6	AT L-OV (GC/FID)	OV List A	2-Butanone, Ethyl methyl ketone, MEK	Sampling rate has been lab verified.
Methyl Ethyl Ketone	78-93-3	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	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	This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the
Methyl Ethyl Ketoxime	96-29-7	546AT	546AT Badge	2.31	OSHA 200 PPM		0.76 PPM	3		6	AT L-OV (GC/FID)	OV List A		
Methyl Ethyl Ketoxime #	96-29-7	566AT #	566AT Badge	9.2	OSHA 200 PPM		0.19 PPM	3		6	AT L-OV (GC/FID)	MEKO		Analysis only compatible with DMSO. Analyzed in the California Lab.
Methyl Ethyl Ketoxime	96-29-7	525AT	525AT Badge	66.3	OSHA 200 PPM		0.026 PPM	3		6	AT L-OV (GC/FID)	MEKO		Analysis only compatible with DMSO. Analyzed in the California Lab.
Methyl Iodine (Iodomethane)	74-88-4	566AT	566AT Badge	7.4	OSHA 5 PPM		0.48 PPM	10	10	6	AT L-OV (GC/FID)	Anesthetic Gas		
Methyl Isoamyl Ketone #	110-12-3	566AT #	566AT Badge	8.58	OSHA 100 PPM		0.054 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isoamyl 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 Isoamyl 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		0.055 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	Sampling rate has been lab verified.
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	Sampling rate has been lab verified.
Methyl Isobutyl Ketone	108-10-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0036 PPM	0.7	10	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	This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the
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		Sampling rate has been lab verified.
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		Sampling rate has been lab verified.
Methyl Methacrylate	80-62-6	J6-001	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	OSHA 100 PPM		0.0081 PPM	1		6	AT L-OV (GC/FID)	OV List A		This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the
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	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	CAL 1 PPM		0.051 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	63.9	CAL 1 PPM		0.088 PPM	11		6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
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	OSHA STEL 125 PPM	0.75 PPM	3		6	AT L-OV (GC/FID)	OV List A	Dichloromethane	Sampling rate has been lab verified.
Methylene Chloride #	75-09-2	566AT #	566AT Badge	9.54	OSHA 25 PPM	OSHA STEL 125 PPM	0.19 PPM	3		6	AT L-OV (GC/FID)	OV List A	Dichloromethane	Sampling rate has been lab verified.
Methylene Chloride	75-09-2	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 25 PPM	OSHA STEL 125 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	OSHA STEL 125 PPM	0.025 PPM	3		6	AT L-OV (GC/FID)	OV List A	Dichloromethane	This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the
2-Methylpentane	107-83-5	566AT	566AT Badge	9.9	OSHA 200 PPM		0.12 PPM	2		6	AT L-OV (GC/FID)	OV List B		
2-Methylpentane	107-83-5	546AT	546AT Badge	2.5	OSHA 200 PPM		0.47 PPM	2		6	AT L-OV (GC/FID)	OV List B		
Molybdenum	7439-98-7	J5-024 SMR TAB	Smear Tab		OSHA 5 MG/M3			0.5		6	MOD OSHA 1D 125	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 1D 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
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		Sampling rate has been lab verified.
Naphthalene	91-20-3	546AT	546AT Badge	2.03	OSHA 10 PPM	NIOSH STEL 15 PPM	1.3 PPM	6.5		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Naphthalene	91-20-3	566AT	566AT Badge	8.1	OSHA 10 PPM	NIOSH STEL 15 PPM	0.32 PPM	6.5		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Naphthalene	91-20-3	J6-001	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		This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the
Nickel	7440-02-0	J5-024 SMR TAB	Smear Tab		OSHA 1 MG/M3			0.5		6	MOD OSHA 1D 125	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 1D 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
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		Sampling rate has been lab verified.
Nitrous Oxide #	10024-97-2	575AT #	575AT Badge	0.88	NIOSH 25 PPM		0.53 PPM	0.4		6	AT SOP L575	Nitrous oxide		A field blank is recommended with each monitoring event so the results can be
Nitrous Oxide	10024-97-2	575AT	575AT Badge	0.88	NIOSH 25 PPM		0.53 PPM	0.4		6	AT SOP L575	Nitrous Oxide		Sampling rate has been lab verified.
Nonane #	111-84-2	546AT #	546AT Badge	2.02	OSHA 200 PPM		0.098 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Nonane	111-84-2	566AT	566AT Badge	8.09	OSHA 200 PPM		0.025 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Nonane	111-84-2	525AT	525AT Badge	46.8	OSHA 200 PPM		0.0042 PPM	0.5		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	J537PVCW250	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 (Vol)	8012-95-1	J537PVC250	Cassette, PVC Cassette	2.0 L/min	OSHA 5 MG/M3	NIOSH STEL 10 MG/M3			500	10	MOD NIOSH 500	Gravimetric		A sample of the oil must be sent to the laboratory to be used in the calibration of
Organic Solvent Panel	9705-25	525AT	525AT Badge							6	AT L-OV (GC/FID)	OV List Panel		
Ozone #	10028-15-6	586AT #	586AT Badge	15.2	OSHA 0.1 PPM	NIOSH CEILING 0.1 PPM	0.0070 PPM	0.1						

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
PGMEA #	108-65-6	546AT	546AT Badge				0.19 PPM	1		6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methoxy-2-propanol	Sampling rate has been lab verified.
PGMEA #	108-65-6	566AT #	566AT Badge				0.048 PPM	1		6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methoxy-2-propanol	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-2-propanol	Sampling rate has been lab verified.
PGMEA #	108-65-6	525AT	525AT Badge				0.0067 PPM	1		6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methoxy-2-propanol	Sampling rate has been lab verified.
pH	A713-09	J5-025 G WIRE	63025 Wire					0.1		6	AT		pH	
Phenol #	108-95-2	596AT #	596AT Badge		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.
4-Phenyl Cyclohexene #	4994-16-5	546AT #	546AT Badge				0.53 PPM	3		6	AT L-OV (GC/FID)	OV List A	Rug Odor	
4-Phenyl Cyclohexene	4994-16-5	566AT	566AT Badge				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			0.0097 PPM	3	10	6	AT L-OV (GC/FID)	OV List A	Rug Odor	
4-Phenyl Cyclohexene	4994-16-5	525AT	525AT Badge				0.018 PPM	3		6	AT L-OV (GC/FID)	OV List A	Rug Odor	This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the
Phenyl Ether	101-84-8	566AT	566AT Badge		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		OSHA 1 PPM		0.0062 PPM	0.9		6	AT L-OV (GC/FID)	OV List B		
O-Phthalaldehyde	643-79-8	571AT	571AT Badge				0.0027 MG/M3	0.008		10	MOD OSHA 64	OPA	Cidex OPA	OPA can not be collected with other aldehydes. The PEL and STEL limits listed are Johnson & Johnson recommendations. To reach a reporting limit of 0.0001 ppm, the badge must be used for at least 4 hours. Sampling rate has been lab verified.
O-Phthalaldehyde #	643-79-8	581AT #	581AT Badge				0.00029 MG/M3	0.008		10	MOD OSHA 64	OPA	Cidex OPA	OPA can not be collected with other aldehydes. Please verify the sensitivity with the
Alpha-Pinene #	80-56-8	546AT	546AT Badge				0.15 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Alpha-Pinene #	80-56-8	566AT #	566AT Badge				0.038 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Alpha-Pinene	80-56-8	525AT	525AT Badge				0.0052 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Beta-Pinene	127-91-3	546AT	546AT Badge				0.15 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Beta-Pinene #	127-91-3	566AT #	566AT Badge				0.038 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Beta-Pinene	127-91-3	525AT	525AT Badge				0.0052 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Potassium	2023695	J5-024 SMR TAB	Smear Tab					10		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Potassium	2023695	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.0026 MG/M3	2.5	1000	6	MOD OSHA ID 125	ICP		
Potassium Hydroxide	1310-58-3	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.016 MG/M3	15	1000	6	MOD OSHA ID 125	ICP		
1-Propanol #	71-23-8	546AT #	546AT Badge		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	566AT	566AT Badge		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	J6-001	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	
1-Propanol	71-23-8	525AT	525AT Badge		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	
Propionaldehyde #	123-38-6	571AT #	571AT Badge				0.0092 PPM	0.1		10	MOD EPA TO-11		Aldehyde	
Propionaldehyde	123-38-6	581AT	581AT Badge				0.0011 PPM	0.1		10	MOD EPA TO-11		Aldehyde	
Propyl Acetate #	109-60-4	546AT #	546AT Badge		OSHA 200 PPM		0.22 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propyl Acetate	109-60-4	566AT	566AT Badge		OSHA 200 PPM		0.055 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propyl Acetate	109-60-4	525AT	525AT Badge		OSHA 200 PPM		0.0078 PPM	1		6	AT L-OV (GC/FID)	OV List A		
N-Propyl Bromide	106-94-5	546AT	546AT Badge				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				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				0.014 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane	
Propylene Glycol Methyl Ether	107-98-2	546AT	546AT Badge				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				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				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		OSHA 100 PPM		0.29 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylene Oxide	75-56-9	566AT	566AT Badge		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		OSHA 100 PPM		0.011 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylenimine #	75-55-8	585AT #	585AT Badge		OSHA 2 PPM		0.018 PPM	0.2		10	MOD OSHA 60		Amine	
Pyridine	110-86-1	546AT	546AT Badge		OSHA 5 PPM		0.22 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Pyridine	110-86-1	566AT	566AT Badge		OSHA 5 PPM		0.056 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Pyridine #	110-86-1	525AT #	525AT Badge		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 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
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 125	ICP		
Sevoflurane #	28523-86-6	574AT #	574AT Badge				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	J537PVC350	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, J537PVC350. If dust is not needed, use J537PVC350. 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 Use a Parallel Particle Impactor. Collect Respirable particulates without the need of a cyclone. The one time use impactors contain a preweighed PVC filter and are for Total Crystalline Silica with dust, use a two piece pre-weighed PVC cassette.
Crystalline-Silica (XRD) - Resp #	7631-86-9	J5-385 #	PVC 37 mm	2.0 L/min					1000	10	MOD NIOSH 7500	Subcontract		
Crystalline-Silica (XRD) - Total	7631-86-9	J537PVC250	Cassette, PVC Cassette	2.0 L/min					1000	10	MOD NIOSH 7500	Subcontract		
Silver	7440-22-4	J5-024 SMR TAB	Smear Tab					0.5		6	MOD OSHA ID 125	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 125	ICP		
Sodium	7440-23-5	J5-024 SMR TAB	Smear Tab					10		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Sodium	7440-23-5	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.010 MG/M3	10	1000	6	MOD OSHA ID 125	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		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		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		OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	1.6 MG/M3	40		6	MOD NIOSH 1550	OV List C	Mineral Spirits	
Srromium	7440-24-6	J5-024 SMR TAB	Smear Tab					0.05		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Srromium	7440-24-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125	ICP		
Styrene	100-42-5	546AT	546AT Badge		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		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	0.0034 PPM	0.5	10	6	AT L-OV (GC/FID)	OV List A		
Styrene	100-42-5	525AT	525AT Badge		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 Organic Solvent Panel. (OSP). Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
2,4-TDI	584-84-9	J5-9002	Cassette, GFF w/ 1,-PP	1.0 L/min		OSHA CEILING 0.02 PPM	0.000029 PPM	0.1	240	10	MOD OSHA 42	Isocyanates	Toluene-2,4-Diisocyanate	Sample openface (See method)
2,6-TDI	91-08-7	J5-9002	Cassette, GFF w/ 1,-PP	1.0 L/min		OSHA CEILING 0.02 PPM	0.000015 PPM	0.05	240	10	MOD OSHA 42	Isocyanates	Toluene-2,6-Diisocyanate	Sample openface (See method)
1,1,3,3-Tetrafluoro-1-Propene #	29118-24-9	549AT #	549AT Badge				0.74 PPM	1		10	MOD OSHA 103	Anesthetic Gas		Not validated on the 546, 566 nor 525 badges. Sampling rate has been lab verified.
1,1,1,2-Tetrafluoroethane #	811-97-2	549AT #	549AT Badge				1.5 PPM	2		10	AT L-OV (GC/FID)	Freon	HFC-134a	Not validated on the 546, 566 nor 525 badges. Sampling rate has been lab verified.
Tetrahydrofuran #	109-99-9	546AT #	546AT Badge		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		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	109-9													

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- 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
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 125	ICP		
Titanium	7440-32-6	J5-024 SMR TAB	Smear Tab					0.2		6	MOD OSHA ID 125	ICP		
Titanium	7440-32-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.05	1000	6	MOD OSHA ID 125	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 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
O-Tolualdehyde	529-20-4	571AT	571AT Badge	6.3			0.20 PPM	3		6	MOD EPA TO-11	Aldehyde		
M-Tolualdehyde #	620-23-5	571AT #	571AT #	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		
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 #	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	OSHA CEILING 300 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 Organic Solvent Panel. (OSP). Search for "OSP" to see all the chemicals together on the Guide. 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	J6-001	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 Organic Solvent Panel. (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 #	1.9	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		
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 #	8.6	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 Organic Solvent Panel. (OSP). Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
1,1,2-Trichlorotrifluoroethane #	76-13-1	546AT #	546AT #	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	6.69	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	
Triethanolamine	102-71-6	J537GFF203	Cassette, GFF Cassette	1.0 L/min			0.0085 PPM	25	120	10	MOD OSHA PV2141			
Triethylenetetramine #	112-24-3	585AT #	585AT #	6.05			0.14 PPM	2.5		10	MOD OSHA 60	Amine		
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 with list C chemicals.
1,2,4-Trimethylbenzene #	95-63-6	566AT #	566AT #	8.36			0.051 PPM	1		6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze with list C chemicals.
1,2,4-Trimethylbenzene	95-63-6	J6-001	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 with list C chemicals.
1,2,4-Trimethylbenzene	95-63-6	525AT	525AT Badge	59.5			0.0072 PPM	1		6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze with list C chemicals.
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	
2,2,4-Trimethylpentane	540-84-1	566AT	566AT Badge	8.6			0.16 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2,4-Trimethylpentane	540-84-1	525AT	525AT Badge	44.7			0.030 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
Valeraldehyde #	110-62-3	571AT #	571AT #	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 125	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 125	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 #	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	2.9	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 525 badge.
Vinyl Chloride #	75-01-4	566AT #	566AT #	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 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 #	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	
N-Vinyl-2-Pyrrolidinone	88-12-0	525AT	525AT Badge	61.1			0.023 PPM	3		6	AT L-OV (GC/FID)	OV List A		
4-Vinylcyclohexene	100-40-3	546AT	546AT Badge	2.2			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 #	8.8			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 #	61.6			0.0023 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
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 #	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 #	8.92	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	0.3 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 #	7.54	OSHA 100 PPM	NIOSH STEL 150 PPM	0.064 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 Organic Solvent Panel. (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 125	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 125	ICP		
Zinc Chloride	7646-85-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.0010 MG/M3	1	1000	6	MOD OSHA ID 125	ICP		
Zinc Oxide	1314-13-2	J5-024 SMR TAB	Smear Tab					3		6	MOD OSHA ID 125	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 125	ICP		
Zinc	7440-66-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Zinc Chloride	7646-85-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.0010 MG/M3	1	1000	6	MOD OSHA ID 125	ICP		
Zinc Oxide	1314-13-2	J8114K SMR TAB	Smear Tab					3		6	MOD OSHA ID 125	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 125	ICP		