

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
HCFC-1233Z(E) #	102887-65-0	549AT #	549AT Badge	0.600			0.65 PPM	1	10	AT-LOV (GC/FID)			Freon	Sampling rate has been lab verified.
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	56-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM		0.025 PPM	3	24	MOD OSHA 1865G		Acetic Acid		
Acetic Acid #	64-19-7	543AT #	543AT Badge	11.0	OSHA 10 PPM		0.23 PPM	3	6	MOD OSHA 1865G		Acetic Acid		Charcoal media encased in PTFE (eg AT 566, 546, and 525) can be used with a GC
Acetone #	67-64-1	546AT #	546AT Badge	3.23	OSHA 1000 PPM		0.54 PPM	2	6	AT-LOV (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-LOV (GC/FID)		OV List A		Sampling rate has been lab verified.
Acetone	67-64-1	56-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1000 PPM		0.018 PPM	2	10	AT-LOV (GC/FID)		OV List A		
Acetone	67-64-1	525AT	525AT Badge	87.2	OSHA 1000 PPM		0.020 PPM	2	7	AT-LOV (GC/FID)		OV List A		This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the
Acetonitrile	75-05-8	546AT	546AT Badge	3.48	OSHA 40 PPM		0.50 PPM	1.4	6	AT-LOV (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-LOV (GC/FID)		OV List A		Sampling rate has been lab verified.
Acetonitrile	75-05-8	56-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 40 PPM		0.017 PPM	1.4	10	AT-LOV (GC/FID)		OV List A		
Acetonitrile	75-05-8	525AT	525AT Badge	98.3	OSHA 40 PPM		0.018 PPM	1.4	6	AT-LOV (GC/FID)		OV List A		Sampling rate has been lab verified.
Acetophenone	98-86-2	566AT	566AT Badge	8.00	OSHA 0.1 PPM		0.26 PPM	5	6	AT-LOV (GC/FID)		OV List B		
Acrolein #	107-02-8	592AT #	592AT Badge	8.56	OSHA 0.1 PPM		0.693 PPM	0.5	10	MOD OSHA 52		Acrolein	Propenal	Sampling rate has been lab verified.
Acrolein	107-02-8	56-117	Tube, XAD-2 (2-HMPF) 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	56-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 2 PPM	OSHA CEILING 10 PPM	0.0096 PPM	1	20	MOD NIOSH 1604		OV List A		
Acrylonitrile #	107-13-1	525AT #	525AT Badge	88.0	OSHA 2 PPM	OSHA CEILING 10 PPM	0.021 PPM	1	1	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-LOV (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-LOV (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-LOV (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-LOV (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-LOV (GC/FID)		OV List A		
Allyl Chloride #	107-05-1	525AT #	525AT #	84.8	OSHA 2 PPM		0.0096 PPM	1.1	6	AT-LOV (GC/FID)		OV List A		
Aluminum	7429-90-5	537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 15 MG/M3		0.0021 MG/M3	2	1000	MOD OSHA ID 125		ICP		
Aluminum	7429-90-5	J5-024 SMR TAB	Smear Tab		OSHA 15 MG/M3		2	10	MOD OSHA ID 125		ICP			J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Aluminum Chloride	7446-70-0	J5-024 SMR TAB	Smear Tab				5	10	MOD OSHA ID 125		ICP			J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Aluminum Chloride	7446-70-0	537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0052 MG/M3	5	1000	MOD OSHA ID 125		ICP		
Ammonia #	7664-41-7	584AT #	584AT Badge	28.8	OSHA 50 PPM		0.31 PPM	3	6	MOD OSHA 188		Ammonia		Sampling rate has been lab verified.
Ammonia	7664-41-7	56-010-06	Tube, Silica Gel-w/H2SO4 100-1200mg Tube	0.10 L/min	OSHA 50 PPM		0.090 PPM	3	24	MOD OSHA ID 188		Ammonia		
Amyl Acetate	628-63-7	546AT	546AT Badge	2.01	OSHA 2 PPM		0.18 PPM	0.9	6	AT-LOV (GC/FID)		OV List A		
Amyl Acetate #	628-63-7	566AT #	566AT Badge	8.03	OSHA 2 PPM		0.044 PPM	0.9	6	AT-LOV (GC/FID)		OV List A		
Antimony	7440-36-0	J5-024 SMR TAB	Smear Tab		OSHA 0.5 MG/M3		0.5	10	MOD OSHA ID 125		ICP			J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Antimony	7440-36-0	537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.5 MG/M3		0.00052 MG/M3	0.5	1000	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	10	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	10	MOD OSHA ID 125		ICP			J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Arsenic	7440-38-2	537MCE208	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	MOD OSHA ID 125		ICP		
Barium	7440-39-3	J5-024 SMR TAB	Smear Tab		NIOSH 0.5 MG/M3		0.05	10	MOD OSHA ID 125		ICP			J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Barium	7440-39-3	537MCE208	Cassette, MCE Cassette	2.0 L/min	NIOSH 0.5 MG/M3		0.00052 MG/M3	0.05	1000	MOD OSHA ID 125		ICP		
Benzaldehyde #	100-52-7	571AT #	571AT Badge	6.07	OSHA 1 PPM		0.021 PPM	0.3	10	MOD EPA TO-11		Aldehyde	Benzal	
Benzaldehyde	100-52-7	581AT	581AT Badge	65.8	OSHA 1 PPM		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-LOV (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-LOV (GC/FID)		OV List A		Sampling rate has been lab verified.
Benzene	71-43-2	56-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1 PPM	OSHA STEL 5 PPM	0.0026 PPM	0.4	10	AT-LOV (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-LOV (GC/FID)		OV List A		This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the
Benzene	100-51-6	566AT	566AT Badge	8.50	OSHA 1 PPM		0.26 PPM	5	6	AT-LOV (GC/FID)		OV List A		
Benzyl Alcohol	100-51-6	546AT	546AT Badge	2.13	OSHA 1 PPM		1.1 PPM	5	6	AT-LOV (GC/FID)		OV List A		
Benzyl Alcohol	100-51-6	525AT	525AT Badge	65.4	OSHA 1 PPM		0.036 PPM	5	6	AT-LOV (GC/FID)		OV List A		
Benzyl Chloride	100-44-7	546AT	546AT Badge	2.03	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.20 PPM	1	6	AT-LOV (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-LOV (GC/FID)		OV List B		
Benzyl Chloride	100-44-7	56-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.0040 PPM	1	10	AT-LOV (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-LOV (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	10	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	10	MOD OSHA ID 125		ICP			Does not include Beryllium Oxide. Contact Customer Service for Beryllium Oxide
Beryllium	7440-41-7	537MCE208	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	MOD OSHA ID 125		ICP		
Boron	7440-42-8	J5-024 SMR TAB	Smear Tab		OSHA 0.002 MG/M3		0.5	10	MOD OSHA ID 125		ICP			J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Boron	7440-42-8	537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.002 MG/M3		0.00052 MG/M3	0.5	1000	MOD OSHA ID 125		ICP		
Bromine	7726-95-6	59-006	Cassette, PTFE Ag membrane	1.0 L/min	OSHA 0.1 PPM		0.0016 PPM	5	360	MOD NIOSH 6011		Halogen		
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-LOV (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-LOV (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	56-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1 PPM	OSHA STEL 5 PPM	0.0057 PPM	0.6	10	AT-LOV (GC/FID)		OV List A		It is not recommended that 1,3-Butadiene be collected on the 521/525 badge.
2-Butanol	78-92-2	546AT	546AT Badge	2.67	OSHA 150 PPM		0.18 PPM	0.7	6	AT-LOV (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-LOV (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-LOV (GC/FID)		OV List A	Butyl Cellosolve	
2-Butoxyethanol #	111-76-2	566AT #	566AT Badge	8.43	OSHA 50 PPM		0.26 PPM	5	6	AT-LOV (GC/FID)		OV List A	Butyl Cellosolve	Sampling rate has been lab verified.
2-Butoxyethanol	111-76-2	56-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 50 PPM		0.022 PPM	5	10	AT-LOV (GC/FID)		OV List A	Butyl Cellosolve	Sampling rate has been lab verified.
2-Butoxyethanol	111-76-2	525AT	525AT Badge	52.7	OSHA 50 PPM		0.041 PPM	5	6	AT-LOV (GC/FID)		OV List A	Butyl Cellosolve	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-LOV (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-LOV (GC/FID)		OV List A		
N-Butyl Acetate	123-86-4	56-01	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 150 PPM		0.0039 PPM	0.9	10	AT-LOV (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-LOV (GC/FID)		OV List A		This chemical is on the Organic Solvent Panel. (OSP). Search for "OSP" to see all the
Tert-Butyl Acetate #	540-88-5	546AT #	546AT Badge	2.13	OSHA 200 PPM		0.41 PPM	2	6	AT-LOV (GC/FID)		OV List A		Sampling rate has been lab verified.
Tert-Butyl Acetate	540-88-5	566AT	566AT	8.50	OSHA 200 PPM									

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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
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	#N/A		6	MOD OSHA ID 125	ICP		
Calcium	7440-70-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0021 MG/M3	2	1000	6	MOD OSHA ID 125	ICP		#814K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Camphor	76-22-2	546AT	546AT Badge	1.61	OSHA 2 MG/M3		0.12 PPM	0.6		6	AT LOV (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 LOV (GC/FID)	OV List B		
Camphor #	76-22-2	525AT #	525AT Badge	47.7	OSHA 2 MG/M3		0.0042 PPM	0.6		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 5000	Gravimetric		
Carbon Tetrachloride	56-23-5	546AT	546AT Badge	1.85	OSHA 10 PPM	OSHA CEILING 25 PPM	0.20 PPM	5		6	AT LOV (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 LOV (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 LOV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride #	56-23-5	525AT #	525AT Badge	68.9	OSHA 10 PPM	OSHA CEILING 25 PPM	0.024 PPM	5		6	AT LOV (GC/FID)	OV List A	Tetrachloromethane	
Chlorine	7782-50-5	J5-9006	Cassette, PTFE Ag membrane	1.0 L/min		OSHA CEILING 1 PPM	0.0014 PPM	2	360	6	MOD NIOSH 6013	Halogen		
Chlorobenzene	108-90-7	546AT	546AT Badge	2.16	OSHA 75 PPM		0.13 PPM	0.6		6	AT LOV (GC/FID)	OV List A		
Chlorobenzene #	108-90-7	566AT #	566AT Badge	8.64	OSHA 75 PPM		0.031 PPM	0.6		6	AT LOV (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 LOV (GC/FID)	OV List A		
Chlorobenzene	108-90-7	525AT #	525AT Badge	62.2	OSHA 75 PPM		0.0044 PPM	0.6		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	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	AT LOV (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 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	AT LOV (GC/FID)	OV List A	Trichloromethane	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.
Chromium	7440-47-3	J5-025 G WIPE	Ghost Wipe		OSHA 1 MG/M3			0.05	#N/A	6	MOD OSHA ID 125	ICP		
Chromium	7440-47-3	J5-024 SMR TAB	Smear Tab		OSHA 1 MG/M3			0.5	#N/A	6	MOD OSHA ID 125	ICP		
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		#814K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
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		0	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	#N/A	6	MOD OSHA ID 125	ICP		
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		#814K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Copper	7440-50-8	J5-024 SMR TAB	Smear Tab		OSHA 0.1 MG/M3			0.5	#N/A	6	MOD OSHA ID 125	ICP		
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		#814K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
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 Badge	86.2			0.027 PPM	5		10	MOD OSHA 32	Phenol		
Cresol, Total #	1319-77-3	525AT #	525AT Badge	86.2			0.027 PPM	5		10	MOD OSHA 32	Phenol		Cresol on a 525 badge is sold as a X525-4AT. If Cresol is submitted on a 525-1,
Crotonaldehyde	4170-30-3	571AT #	571AT Badge	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 LOV (GC/FID)	OV List A		
Cumene #	98-82-8	566AT #	566AT Badge	8.36			0.025 PPM	0.5		6	AT LOV (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 LOV (GC/FID)	OV List A		
Cumene	98-82-8	525AT	525AT Badge	54.6			0.0039 PPM	0.5		6	AT LOV (GC/FID)	OV List A		
Ethyl 2-Cyanoacrylate #	7085-85-0	595AT #	595AT Badge	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 Badge	2.21		OSHA 300 PPM	0.16 PPM	0.6		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	AT LOV (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	0.0036 PPM	0.6	10	6	AT LOV (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 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	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	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	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	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	AT LOV (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 LOV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	525AT #	525AT Badge	66.8		OSHA 50 PPM	0.0047 PPM	0.6		6	AT LOV (GC/FID)	OV List A		This chemical is on the Organic Solvent Panel (OSP). Search for "OSP" to see all the
Cyclohexylamine #	108-91-8	585AT #	585AT Badge	7.41			0.035 PPM	0.5		10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
Desflurane #	57041-67-5	571AT #	571AT Badge	8.56			0.11 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Suprane	
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	
Diacetone Alcohol	123-42-2	546AT	546AT Badge	2.13		OSHA 50 PPM	0.21 PPM	1		6	AT LOV (GC/FID)	OV List A		
Diacetone Alcohol #	123-42-2	566AT #	566AT Badge	8.50		OSHA 50 PPM	0.052 PPM	1		6	AT LOV (GC/FID)	OV List A		
1,5-Diaminopentane	462-94-2	585AT	585AT Badge	7.30			0.068 PPM	1		10	MOD OSHA 60	Amine		
1,3-Diaminopropane	109-76-2	585AT	585AT Badge	8.60			0.080 PPM	1		10	MOD OSHA 60	Amine		
1,2-Dibromoethane #	106-93-4	566AT #	566AT Badge	6.67			0.12 PPM	3		6	AT LOV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dibromoethane	106-93-4	546AT	546AT Badge	1.67			0.49 PPM	3		6	AT LOV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dibromoethane	106-93-4	525AT	525AT Badge	71.2			0.011 PPM	3		6	AT LOV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dichlorobenzene #	95-50-1	546AT #	546AT Badge	7.55		OSHA 50 PPM	0.049 PPM	1		6	AT LOV (GC/FID)	OV List B		
1,2-Dichlorobenzene	95-50-1	546AT	546AT Badge	1.89		OSHA 50 PPM	0.18 PPM	1		6	AT LOV (GC/FID)	OV List B		
1,2-Dichlorobenzene	95-50-1	525AT #	525AT Badge	56.5		OSHA 50 PPM	0.0061 PPM	1		6	AT LOV (GC/FID)	OV List B		
1,4-Dichlorobenzene #	106-46-7	566AT #	566AT Badge	7.55		OSHA 75 PPM	0.046 PPM	1		6	AT LOV (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 LOV (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 LOV (GC/FID)	OV List B	p-Dichlorobenzene	
1,1-Dichloroethane	75-34-3	546AT	546AT Badge	2.30		OSHA 100 PPM	0.45 PPM	2		6	AT LOV (GC/FID)	OV List A		
1,1-Dichloroethane	75-34-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA 100 PPM	0.010 PPM	2	10	6	AT LOV (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 LOV (GC/FID)	OV List A		
1,1-Dichloroethane	75-34-3	525AT #	525AT Badge	76.4		OSHA 100 PPM	0.013 PPM	2		6	AT LOV (GC/FID)	OV List A		
1,2-Dichloroethane	107-06-2	546AT	546AT Badge	2.31		OSHA 50 PPM	0.45 PPM	2		6	AT LOV (GC/FID)	OV List A	EDC	Sampling rate has been lab verified.
1,2-Dichloroethane #	107-06-2	566AT #	566AT Badge	9.22		OSHA CEILING 100 PPM	0.11 PPM	2		6	AT LOV (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 CEILING 100 PPM	0.010 PPM	2	10	6	AT LOV (GC/FID)	OV List A	EDC	
1,2-Dichloroethane	107-06-2	525AT	525AT Badge	63.5		OSHA 50 PPM	0.016 PPM	2		6	AT LOV (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 LOV (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 LOV (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 LOV (GC/FID)	OV List A	1,2-DCE, 1,2-Dichlor	

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
Diethylamine #	109-89-7	S85AT #	S85AT Badge		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	S66AT #	S66AT Badge				0.48 PPM	10		6	AT-LOV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Butyl Ether	112-34-5	S46AT #	S46AT Badge				1.7 PPM	10		6	AT-LOV (GC/FID)	OV List A	Butyl Carbitol	
Diethylenetriamine #	111-40-0	S85AT #	S85AT Badge			OSHA CEILING 10 PPM	0.020 PPM	0.3	10	MOD OSHA 60	Amine			
Diisobutyl Ketone #	108-83-8	S66AT #	S66AT Badge		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	S46AT #	S46AT Badge		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	S25AT #	S25AT Badge		OSHA 50 PPM		0.0057 PPM	0.9		6	AT L-OV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Dimethylamine #	121-40-3	S85AT #	S85AT Badge				0.021 PPM	0.3	10	MOD OSHA 60	Amine			
Dimethylsulfoxide #	67-68-5	S66AT #	S66AT Badge				0.63 PPM	10	10	6	AT L-OV (GC/FID)		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	6	AT L-OV (GC/FID)		DMSO	
1,4-Dioxane	123-91-1	S46AT #	S46AT Badge		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	S66AT #	S66AT Badge		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			0.012 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
1,4-Dioxane #	123-91-1	S25AT #	S25AT Badge		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	S66AT #	S66AT Badge				0.067 PPM	1		6	AT L-OV (GC/FID)	OV List A		
1,3-Dioxolane	646-06-0	S46AT #	S46AT Badge				0.26 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Dipropylene Glycol Methylene	34590-94-8	S46AT #	S46AT Badge		OSHA 100 PPM		3.1 PPM	17		6	AT L-OV (GC/FID)	OV List B		
Dipropylene Glycol Methylene #	34590-94-8	S66AT #	S66AT Badge		OSHA 100 PPM		0.78 PPM	17		6	AT L-OV (GC/FID)	OV List B		
Dipropylene Glycol Methylene	34590-94-8	S25AT #	S25AT Badge		OSHA 100 PPM		0.10 PPM	17		6	AT L-OV (GC/FID)	OV List B		
Dust, Respirable	1318-93-0	J537PCPW350	Cassette, PVC Pre-wt Cassette	2.5 L/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	J537PCPW250	Cassette, PVC Pre-wt Cassette		OSHA 15 MG/M3			20	#N/A	6	MOD NIOSH 500	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	S71AT #	S71AT #				0.10 PPM	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	S46AT #	S46AT Badge		OSHA 5 PPM		0.28 PPM	1.2		6	AT L-OV (GC/FID)	OV List A		
Epichlorohydrin	106-89-8	S66AT #	S66AT Badge		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			0.0066 PPM	1.2	10	6	AT L-OV (GC/FID)	OV List A		
Epichlorohydrin #	106-89-8	S25AT #	S25AT Badge		OSHA 5 PPM		0.010 PPM	1.2		6	AT L-OV (GC/FID)	OV List A		
Ethanolamine #	141-43-5	S85AT #	S85AT Badge		OSHA 3 PPM		0.032 PPM	0.3	10	MOD OSHA 60	Amine			Sampling rate has been lab verified.
2-Ethoxyethanol	110-80-5	S46AT #	S46AT Badge		OSHA 200 PPM		0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol #	110-80-5	S66AT #	S66AT Badge		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			0.011 PPM	2	10	6	AT L-OV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol	110-80-5	S25AT #	S25AT Badge		OSHA 200 PPM		0.017 PPM	2		6	AT L-OV (GC/FID)	OV List A	Cellosolve	
Ethyl Acetate #	141-78-6	S46AT #	S46AT Badge		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	S66AT #	S66AT Badge		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			0.012 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
Ethyl Acetate	141-78-6	S25AT #	S25AT Badge		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	S46AT #	S46AT Badge		OSHA 25 PPM		0.20 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acrylate	140-88-5	S66AT #	S66AT Badge		OSHA 25 PPM		0.050 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acrylate #	140-88-5	S25AT #	S25AT Badge		OSHA 25 PPM		0.0074 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Ethyl Alcohol #	64-17-5	S46AT #	S46AT Badge		OSHA 1000 PPM		3.3 PPM	10		6	AT L-OV (GC/FID)	OV List A	Ethanol	
Ethyl Alcohol	64-17-5	S66AT #	S66AT Badge		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			0.11 PPM	10	10	6	AT L-OV (GC/FID)	OV List A	Ethanol	
Ethyl Alcohol	64-17-5	S25AT #	S25AT Badge		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 chemicals together on the Guide.
Ethyl Ether #	60-29-7	S46AT #	S46AT Badge		OSHA 400 PPM		0.73 PPM	3		6	AT L-OV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Ether	60-29-7	S66AT #	S66AT Badge		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			0.021 PPM	3	10	6	AT L-OV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Ether	60-29-7	S25AT #	S25AT Badge		OSHA 400 PPM		0.027 PPM	3		6	AT L-OV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Methacrylate #	97-63-2	S66AT #	S66AT Badge		OSHA 400 PPM		0.253 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Ethyl Methacrylate	97-63-2	S46AT #	S46AT Badge				0.21 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Ethyl Methacrylate	97-63-2	S25AT #	S25AT Badge				0.0077 PPM	1		6	AT L-OV (GC/FID)	OV List A		
2-Ethyl-1-Hexylamine	104-75-6	S85AT #	S85AT Badge				0.18 PPM	3	10	MOD OSHA 60	Amine			
2-Ethylhexanol	921-63-4	S92AT #	S92AT Badge				0.027 PPM	0.3		6	MOD OSHA 62	Alcohol		
Ethylamine #	75-04-7	S85AT #	S85AT Badge		OSHA 10 PPM		0.031 PPM	0.3	10	MOD OSHA 60	Amine			
Ethylbenzene	100-41-4	S46AT #	S46AT Badge		OSHA 100 PPM	NIOSH 125 PPM	0.11 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Ethylbenzene #	100-41-4	S66AT #	S66AT Badge		OSHA 100 PPM	NIOSH 125 PPM	0.027 PPM	0.5		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			0.0024 PPM	0.5	10	6	AT L-OV (GC/FID)	OV List A		
Ethylbenzene	100-41-4	S25AT #	S25AT Badge		OSHA 100 PPM	NIOSH 125 PPM	0.0038 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
Ethylene Chlorohydrin	107-07-3	S46AT #	S46AT Badge		OSHA 5 PPM		0.25 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Ethylene Chlorohydrin	107-07-3	S66AT #	S66AT Badge		OSHA 5 PPM		0.087 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Ethylene Chlorohydrin #	107-07-3	S25AT #	S25AT Badge		OSHA 5 PPM		0.013 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Ethylene Glycol Dimethyl Ether	110-71-4	S46AT #	S46AT Badge				0.23 PPM	1		6	AT L-OV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane	
Ethylene Glycol Dimethyl Ether #	110-71-4	S66AT #	S66AT Badge				0.058 PPM	1		6	AT L-OV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane	
Ethylene Glycol Dimethyl Ether	110-71-4	S25AT #	S25AT Badge				0.0085 PPM	1		6	AT L-OV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane	
Ethylene Oxide	75-21-8	J6-OR80-78	Tube, OR80 78 HBr Treated Tube	0.10 L/min	OSHA 1 PPM	OSHA STEL 5 PPM	0.012 PPM	1	24	6	MOD ASTM D5578	Ethylene Oxide		
Ethylene Oxide #	75-21-8	S55AT #	S55AT Badge		OSHA 1 PPM	OSHA STEL 5 PPM	0.011 PPM	0.12		6	MOD ASTM D5578	Ethylene Oxide		Sampling rate has been lab verified.
Ethyleneamine #	107-15-3	S85AT #	S85AT Badge		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		OSHA 0.75 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 S83 badge. For more information about
Formaldehyde	50-00-0	S81AT #	S81AT Badge		OSHA 0.75 PPM		0.0014 PPM	0.1		6	MOD OSHA 1007	Formalin		
Formaldehyde	50-00-0	S66AT #	S66AT Badge		OSHA 0.75 PPM		0.0059 PPM	0.1	10	MOD OSHA 1007	Aldehyde	Formalin		
Formaldehyde	50-00-0	J6-119	Tube, Silica Gel-DNPH Tube	0.10 L/min			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			0.000041 PPM	0.008	24	6	MOD NIOSH 2532	Aldehyde	Cidex	
Glutaraldehyde	111-30-8	S71AT #	S71AT Badge				0.00056 PPM	0.008		6	MOD OSHA 64	Aldehyde	Cidex	Sampling rate has been lab verified.
Glutaraldehyde	111-30-8	J5-8003	Cassette, GF 2-4-DNPH	0.10 L/min			0.000020 PPM	0.04	120	6	MOD OSHA 64	Aldehyde	Cidex	
Glutaraldehyde #	111-30-8	S81AT #	S81AT Badge				0.000064 PPM	0.008		6	MOD OSHA 64	Aldehyde	Cidex	
Halothane #	151-67-7	S71AT #	S71AT Badge				0.12 PPM	4		6	MOD OSHA 103	Anesthetic Gas		
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		
Heptane #	142-82-5	S46AT #	S46AT Badge		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		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			0.0005 PPM	0.5	10	6	AT L-OV (GC/FID)	OV List A		

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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
N-Hexane	110-54-3	525AT	525AT Badge	60.9	OSHA 500 PPM		0.0058 PPM	0.6	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
2-Hexanone #	591-78-6	566AT #	566AT Badge	9.16	OSHA 100 PPM		0.028 PPM	0.5	6	6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	546AT #	546AT Badge	2.29	OSHA 100 PPM		0.11 PPM	0.5	6	6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	JE-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	525AT	525AT Badge	78.8	OSHA 100 PPM		0.0032 PPM	0.5	6	6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
Hydrobromic Acid	10035-10-6	JE-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 3 PPM	NIOSH CEILING 3 PPM	0.016 PPM	5	100	6	MOD NIOSH 7903	Acid	HBr, Hydrogen Bromide	
Hydrochloric Acid	7647-01-0	JE-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 3 PPM	OSHA CEILING 5 PPM	0.014 PPM	2	100	6	MOD NIOSH 7903	Acid	HCl, Hydrogen Chloride, Muriatic acid	
Hydrofluoric Acid	7664-39-3	JE-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 3 PPM		0.025 PPM	2	100	6	MOD NIOSH 7903	Acid	HF, Hydrogen Fluoride	
Hydrogen Peroxide #	7722-84-1	S87AT #	S87AT Badge	137	OSHA 1 PPM		0.020 PPM	1.8	6	6	MOD OSHA V6	Subcontract		The S87 monitors are manufactured and analyzed by Advanced Chemical Sensor.
Indium	7440-74-6	JS-024 SMR TAB	Smear Tab					0.5	#N/A	6	MOD OSHA ID 125	ICP		JB114K: JS-024 + JB054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Indium	7440-74-6	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Iodomethane	74-88-4	566AT	566AT Badge	7.40	OSHA 5 PPM		0.48 PPM	10	10	10	AT L-OV (GC/FID)	OV List A		
Iron	7439-89-6	JS-024 SMR TAB	Smear Tab					2	#N/A	6	MOD OSHA ID 125	ICP		JB114K: JS-024 + JB054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Iron	7439-89-6	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.0021 MG/M3	3	1000	6	MOD OSHA ID 125	ICP		
Iron(III) Oxide	1309-37-1	JS-024 SMR TAB	Smear Tab					3	#N/A	6	MOD OSHA ID 125	ICP		JB114K: JS-024 + JB054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Iron(III) Oxide	1309-37-1	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.0031 MG/M3	3	1000	6	MOD OSHA ID 125	ICP		
Isomyl Alcohol #	123-51-3	566AT #	566AT Badge	9.77	OSHA 100 PPM		0.053 PPM	0.9	6	6	AT L-OV (GC/FID)	OV List A		
Isomyl Alcohol	123-51-3	546AT	546AT Badge	2.44	OSHA 100 PPM		0.21 PPM	0.9	6	6	AT L-OV (GC/FID)	OV List A		
Isomyl Alcohol	123-51-3	525AT	525AT Badge	76.7	OSHA 100 PPM		0.0068 PPM	0.9	6	6	AT L-OV (GC/FID)	OV List A		
Isobutyl Acetate #	110-19-0	546AT #	546AT Badge	2.13	OSHA 150 PPM		0.21 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
Isobutyl Acetate	110-19-0	566AT	566AT Badge	8.50	OSHA 150 PPM		0.052 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
Isobutyl Acetate	110-19-0	525AT	525AT Badge	63.6	OSHA 150 PPM		0.0069 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
Isobutyl Alcohol	78-83-1	546AT	546AT Badge	2.67	OSHA 100 PPM		0.18 PPM	0.7	6	6	AT L-OV (GC/FID)	OV List A	Isobutanol	Sampling rate has been lab verified
Isobutyl Alcohol #	78-83-1	566AT #	566AT Badge	10.7	OSHA 100 PPM		0.045 PPM	0.7	6	6	AT L-OV (GC/FID)	OV List A	Isobutanol	Sampling rate has been lab verified.
Isobutyl Alcohol	78-83-1	JE-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	
Isobutyl Alcohol	78-83-1	525AT	525AT Badge	67.2	OSHA 100 PPM		0.0072 PPM	0.7	6	6	AT L-OV (GC/FID)	OV List A	Isobutanol	Sampling rate has been lab verified.
Isoflurane #	26675-46-7	571AT #	571AT #	7.87	CAL 2 PPM		0.11 PPM	3	6	6	MOD OSHA 103	Anesthetic Gas	Forane	
Isoflurane	26675-46-7	JE-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	26675-46-7	525AT	525AT Badge	59.0	OSHA 25 PPM		0.0044 PPM	0.6	6	6	AT L-OV (GC/FID)	OV List A		
Isoflurane	26675-46-7	566AT #	566AT Badge	7.80	OSHA 25 PPM		0.028 PPM	0.6	6	6	AT L-OV (GC/FID)	OV List B		
Isoflurane	26675-46-7	546AT	546AT Badge	1.95	OSHA 25 PPM		0.11 PPM	0.6	6	6	AT L-OV (GC/FID)	OV List B		
Isoflurane	26675-46-7	525AT	525AT Badge	59.0	OSHA 25 PPM		0.0044 PPM	0.6	6	6	AT L-OV (GC/FID)	OV List B		
Isoflurane Disisocyanate	4098-71-9	JS-2002	Cassette, GFF w/ 1,-PP	1.0 L/min		0.02 PPM	0.00046 PPM	0.2	240	10	MOD OSHA 42	Isocyanates	IPDI	Sample openface (See method)
Isopropyl Acetate #	108-21-4	546AT #	546AT Badge	2.27	OSHA 250 PPM		0.22 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	566AT	566AT Badge	9.08	OSHA 250 PPM		0.055 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	JE-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	525AT	525AT Badge	54.6	OSHA 250 PPM		0.0091 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
Isopropyl Alcohol #	67-63-0	546AT #	546AT Badge	2.96	OSHA 400 PPM	NIOSH STEL 500 PPM	0.29 PPM	1	6	6	AT L-OV (GC/FID)	OV List A	IPA	Sampling rate has been lab verified.
Isopropyl Alcohol	67-63-0	566AT	566AT Badge	11.8	OSHA 400 PPM	NIOSH STEL 500 PPM	0.072 PPM	1	6	6	AT L-OV (GC/FID)	OV List A	IPA	Sampling rate has been lab verified.
Isopropyl Alcohol	67-63-0	JE-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	6	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
Lead	7439-92-1	JS-024 SMR TAB	Smear Tab		OSHA 0.05 MG/M3		0.5	#N/A	6	6	MOD OSHA ID 125	ICP		JB114K: JS-024 + JB054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Lead	7439-92-1	JS-025 G WIPE	Ghost Wipe		OSHA 0.05 MG/M3		0.5	#N/A	6	6	MOD OSHA ID 125	ICP		JB109K: JS-025 + JB054 (Ghost wipe with Vial). Ghost wipes are pre-moistened
Lead	7439-92-1	JS37MCE208	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	546AT	546AT Badge	1.96	OSHA 25 PPM		0.38 PPM	2	6	6	AT L-OV (GC/FID)	OV List A		
D-Limonene #	5989-27-5	566AT #	566AT Badge	7.86	OSHA 25 PPM		0.095 PPM	2	6	6	AT L-OV (GC/FID)	OV List A		
D-Limonene	5989-27-5	JE-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 25 PPM		0.0075 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
D-Limonene	5989-27-5	525AT	525AT Badge	57.2	OSHA 25 PPM		0.013 PPM	2	6	6	AT L-OV (GC/FID)	OV List A		
Magnesium	7439-95-4	JS-024 SMR TAB	Smear Tab		OSHA 15 MG/M3		0.5	#N/A	6	6	MOD OSHA ID 125	ICP		JB114K: JS-024 + JB054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Magnesium	7439-95-4	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 15 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Manganese	7439-96-5	JS-024 SMR TAB	Smear Tab			OSHA CEILING 5 MG/M3		0.5	#N/A	6	MOD OSHA ID 125	ICP		JB114K: JS-024 + JB054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (JB055) available with shipment.
Manganese	7439-96-5	JS37MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA CEILING 5 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
4,4-MDI	101-68-8	JS-9002	Cassette, GFF w/ 1,-PP	1.0 L/min	NIOSH 0.005 PPM		0.000081 PPM	0.4	240	10	MOD OSHA 47	Isocyanates	Methylene Bisphenyl Isocyanate	Sample openface (See method)
Mercury	7439-97-6	JS37MCE208	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	JS-024 SMR TAB	Smear Tab		OSHA 0.1 MG/M3	CAL OSHA CEILING 0.1 MG/M3	0.02	#N/A	6	6	AT CVAF	Mercury		Particulates Only. Order Kit JS8114K: JS-024 + JB054 (Smear Tab with Vial). Tabs
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	6	AT CVAF	Mercury		The sampling rate was changed to 17.0 mL/min starting with lot 9820. Previous
Mesitylene	108-67-8	546AT	546AT Badge	2.09	OSHA 25 PPM		0.25 PPM	5	6	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	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	6	AT L-OV (GC/FID)	OV List A	1,3,5-Trimethylbenzene	
Methamphetamine	537-46-2	JS-025 G WIPE	Ghost Wipe					1	#N/A	10	HPLC	HPLC		Buy wipe kit, JB110K. 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
2-Methoxyethanol #	109-86-4	566AT #	566AT Badge	10.5	OSHA 25 PPM		0.14 PPM	2.2	6	6	AT L-OV (GC/FID)	OV List A	Methyl Cellosolve	
2-Methoxyethanol	109-86-4	546AT	546AT Badge	2.63	OSHA 25 PPM		0.56 PPM	2.2	6	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	6	AT L-OV (GC/FID)	OV List A	Methyl Cellosolve	
2-Methoxyethyl Acetate #	110-49-6	566AT #	566AT Badge	8.00	OSHA 25 PPM		0.27 PPM	5	6	6	AT L-OV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
2-Methoxyethyl Acetate	110-49-6	546AT	546AT Badge	2.00	OSHA 25 PPM		1.1 PPM	5	6	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	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	6	AT L-OV (GC/FID)	OV List A		
Methyl Acetate	79-20-9	525AT	525AT Badge	70.1	OSHA 200 PPM		0.020 PPM	2	6	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	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	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	6	AT L-OV (GC/FID)	OV List A		
Methyl Alcohol	67-56-1	JE-010	Tube, Silica Gel 75-150mg Tube	0.10 L/min	OSHA 200 PPM		0.048 PPM	3	5	6	MOD NIOSH 2000	Methanol		Use 566 badge for STEL. Use 546 for PEL. It is not recommended that Methy
Methyl Alcohol #	67-56-1	546AT #	546AT Badge	4.06	OSHA 200 PPM		1.2 PPM	3	6	6	AT L-OV (GC/FID)	OV List A	Methanol	
Methyl Alcohol	67-56-1	566AT	566AT Badge	16.2	OSHA 200 PPM		0.29 PPM	3	6	6	AT L-OV (GC/FID)	OV List A	Methanol	Use

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OSP = Organic Solvent Panel. See X525-25AT

- Indicates the badge / chemical combination we recommend.

Many of the NIOSHOSHHA 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
Methyl Isoamyl Ketone	110-12-3	546AT	546AT Badge	2.14	OSHA 100 PPM									
Methyl Isoamyl Ketone	110-12-3	525AT	525AT Badge	60.6	OSHA 100 PPM		0.0074 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbonyl #	108-11-2	566AT #	566AT Badge	9.08	OSHA 25 PPM		0.055 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbonyl	108-11-2	546AT	546AT Badge	2.27	OSHA 25 PPM		0.22 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbonyl	108-11-2	525AT	525AT Badge	55.2	OSHA 25 PPM		0.0090 PPM	1	6	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	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	6	AT L-OV (GC/FID)	OV List A	Hexone, MIBK	Sampling rate has been lab verified.
Methyl Isobutyl Ketone	108-10-1	566AT #	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	Sampling rate has been lab verified.
Methyl Isobutyl Ketone	108-10-1	525AT	525AT Badge	66.2	OSHA 100 PPM		0.0054 PPM	0.7	6	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 chemicals together on the Guide. Sampling rate has been lab verified.
Methyl Methacrylate	80-62-6	546AT	546AT Badge	2.29	OSHA 100 PPM		0.22 PPM	1	6	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	6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Methyl Methacrylate	80-62-6	566AT #	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		Sampling rate has been lab verified.
Methyl Methacrylate	80-62-6	525AT	525AT Badge	63.0	OSHA 100 PPM		0.0081 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
1-Methyl-2-Pyrrolidone	872-50-4	546AT	546AT Badge	2.33	CAL 1 PPM		2.4 PPM	1	6	6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	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-Methyl-2-Pyrrolidone	872-50-4	566AT	566AT Badge	9.31	CAL 1 PPM		0.61 PPM	11	6	6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Methyl-2-Pyrrolidone	872-50-4	566AT #	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	63.9	CAL 1 PPM		0.088 PPM	11	6	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	6	AT L-OV (GC/FID)	OV List A		
Methylcyclohexane	108-87-2	566AT	566AT Badge	9.32	OSHA 500 PPM		0.28 PPM	0.5	6	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	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	6	AT L-OV (GC/FID)	OV List A	Dichloromethane	Sampling rate has been lab verified.
Methylene Chloride	75-09-2	566AT #	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	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 chemicals together on the Guide. Sampling rate has been lab verified.
2-Methylpentane	107-83-5	566AT	566AT Badge	9.90			0.12 PPM	2	6	6	AT L-OV (GC/FID)	OV List B		
2-Methylpentane	107-83-5	546AT	546AT Badge	2.50			0.47 PPM	2	6	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	#N/A	6	MOD OSHA 10 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are drv, moisten with DI water.
Molybdenum	7439-98-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 5 MG/M3		0.0052 MG/M3	0.5	1000	6	MOD OSHA 10 125	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		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	6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Naphthalene	91-20-3	566AT	566AT Badge	8.10	OSHA 10 PPM	NIOSH STEL 15 PPM	0.32 PPM	6.5	6	6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Naphthalene	91-20-3	566AT #	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		Sampling rate has been lab verified.
Naphthalene #	91-20-3	525AT #	525AT Badge	58.4	OSHA 10 PPM	NIOSH STEL 15 PPM	0.044 PPM	6.5	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 chemicals together on the Guide. Sampling rate has been lab verified.
N-N-Dimethylaniline	121-69-7	546AT	546AT Badge	2.08			0.12 PPM	0.6	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	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	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	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	6	AT L-OV (GC/FID)	OV List A	DMF	Sampling rate has been lab verified.
N-N-Dimethylformamide	68-12-2	566AT #	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	6	AT L-OV (GC/FID)	OV List A	DMF	Sampling rate has been lab verified.
Nickel	7440-02-0	J5-024 SMR TAB	Smear Tab		OSHA 1 MG/M3			0.5	#N/A	6	MOD OSHA 10 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are drv, moisten with DI water.
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 10 125	ICP		
Nitric Acid	7697-37-2	566AT #	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 2 PPM		0.020 PPM	5	100	6	MOD NIOSH 7903	Acid	HNO3	
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	0.880	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
Nonane #	111-84-2	546AT #	546AT Badge	2.03			0.058 PPM	0.5	6	6	AT L-OV (GC/FID)	OV List A		
Nonane	111-84-2	566AT	566AT Badge	8.09			0.025 PPM	0.5	6	6	AT L-OV (GC/FID)	OV List A		
Nonane	111-84-2	525AT	525AT Badge	46.8			0.0042 PPM	0.5	6	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	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	6	AT L-OV (GC/FID)	OV List A		
Octane	111-65-9	566AT #	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	0.023 PPM	2	6	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 (R)	8012-95-1	J537PVC250	Cassette, PVC Cassette	2.0 L/min	OSHA 5 MG/M3	NIOSH STEL 10 MG/M3	0.021 MG/M3	20	500	10	MOD NIOSH 5026			A sample of the oil must be sent to the laboratory to be used in the calibration of
Organic Solvent Panel	870-5-2	525AT	525AT Badge					0	6	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	6	MOD OSHA 214		Ozone		Not recommended for STEL monitoring. 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 nor 525 badges. 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	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	6	AT L-OV (GC/FID)	OV List A		
Pentane	109-66-0	566AT #	566AT Badge	69.9	OSHA 1000 PPM	NIOSH STEL 610 PPM	0.0061 PPM	0.6	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	6	AT L-OV (GC/FID)	OV List A		
2-Pentaneone	107-87-9	546AT #	546AT Badge	2.47	OSHA 200 PPM		0.17 PPM	0.7	6	6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
2-Pentaneone	107-87-9	566AT	566AT Badge	9.89	OSHA 200 PPM		0.042 PPM	0.7	6	6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
2-Pentaneone	107-87-9	566AT #	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.0043 PPM	0.7	10	6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
2-Pentaneone	107-87-9	525AT	525AT Badge	66.6	OSHA 200 PPM		0.0062 PPM	0.7	6	6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
Perchloroethylene	127-18-4	546AT	546AT Badge	1.78	OSHA 100 PPM	OSHA CEILING 200 PPM	0.35 PPM	2	6	6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	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	6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	Sampling rate has been lab verified.
Perchloroethylene	127-18-4	566AT #	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	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.
Perchloroethylene	127-18-4	525AT	525AT Badge	66.4	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0093 PPM	2	6	6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	
PGMEA	108-65-6	546AT	546AT Badge	2.00			0.19 PPM	1	6	6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methox	Sampling rate has been lab verified.
PGMEA #	108-65-6	566AT #	566AT Badge	7.98			0.048 PPM	1	6	6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methox	Sampling rate has been lab verified.
PGMEA	108-65-6	566AT #	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-Methox	
PGMEA	108-65-6	525AT	525AT Badge	57.8			0.0067 PPM	1	6	6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methox	Sampling rate has been lab verified.
pH	A7-15-4	J5-025 G WIPE	Glove Wipe</											

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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
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			0.038 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		
Beta-Pinene	127-91-3	546AT	546AT Badge	1.96			0.15 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Beta-Pinene #	127-91-3	566AT #	566AT Badge	7.86			0.038 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Beta-Pinene	127-91-3	525AT	525AT Badge	57.2			0.0052 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Potassium	7440-09-7	J5-024 SMR TAB	Smear Tab					10	#N/A	6	MOD OSHA ID 125	ICP		#B114K: J5-024 + #B054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
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 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			
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	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	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	57.2	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	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		0.23 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		
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 #	59.1			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	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	9.66			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		
Propylamine #	75-55-8	585AT #	585AT PPM	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		0.2 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Pyridine	110-86-1	566AT	566AT badge	10.3	OSHA 5 PPM		0.056 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	#N/A	6	MOD OSHA ID 125	ICP		#B114K: J5-024 + #B054 (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	571AT #	571AT badge	7.89			0.097 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Ultrane	
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				0	1000	10	MOD NIOSH 7500	Subcontract		
Crystalline-Silica (XRD) - Resp #	7631-86-9	J5-385 #	PVC 37 mm	2.0 L/min				0	1000	10	MOD NIOSH 7500	Subcontract		
Crystalline-Silica (XRD) - Total	7631-86-9	J537PVC250	Cassette, PVC Cassette	2.0 L/min				0	1000	10	MOD NIOSH 7500	Subcontract		For respirable Crystalline Silica with dust, use a three piece pre-weighed PVC cassette. The one time use impactors contain a preweighed PVC filter and are usually used for crystalline silica (Quartz, Tridymite, and Cristobalite). Unless specifically requested, dust will not be performed. To calibrate your pump, a special adaptor from SKC is required. Assay technology rents calibrated pumps. The XRD analysis is subcontracted to another laboratory. Contact customer service for more information.
Crystalline-Silica (XRD) - Total	7631-86-9	J537PVC250	Cassette, PVC Cassette	2.0 L/min				0	1000	10	MOD NIOSH 7500	Subcontract		For Total Crystalline Silica with Dust, use a two piece pre-weighed PVC cassette, J537PVCW250. If Dust is not needed, use a J537PVC250 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	#N/A	6	MOD OSHA ID 125	ICP		#B114K: J5-024 + #B054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (#B055) 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	#N/A	6	MOD OSHA ID 125	ICP		#B114K: J5-024 + #B054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (#B055) 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 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	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	#N/A	6	MOD OSHA ID 125	ICP		#B114K: J5-024 + #B054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (#B055) 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 125	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		
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 Organic Solvent Panel. (OSP). Search for "OSP" to see all the chemicals together on the Guide.
Sulfuric Acid	7664-93-9	J6-010-Q3	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 1 MG/M3		0.052 MG/M3	5	100	6	MOD NIOSH 7903	Acid	H2SO4	
2,4-TDI	584-84-9	J5-9002	Cassette, GF 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)
2,4-TDI	91-08-7	J5-9002	Cassette, GF w/ 1, PP	2.1 L/min			0.00015 PPM	0.5	240	10	MOD OSHA 42	Isocyanates	Toluene-2,6-Diisocyanate	Sample openface (See method)
1,1,1,2-Tetrafluoroethane #	811-97-2	549AT #	549AT badge	0.670			0.75 PPM	1		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	2.70	OSHA 200 PPM		0.17 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 Organic Solvent Panel. (OSP). Search for "OSP" to see all the
Thallium	7440-28-0	J5-024 SMR TAB	Smear Tab		OSHA 0.1 MG/M3			0.5	#N/A	6	MOD OSHA ID 125	ICP		#B114K: J5-024 + #B054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
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 125	ICP		
Tin	7440-31-5	J5-024 SMR TAB	Smear Tab		OSHA 2 MG/M3			2	#N/A	6	MOD OSHA ID 125	ICP		#B114K: J5-024 + #B054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (#B055) 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 125	ICP		
Titanium	7440-32-6	J5-024 SMR TAB	Smear Tab					0.2	#N/A	6	MOD OSHA ID 125	ICP		#B114K: J5-024 + #B054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (#B055) 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 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		
O-Tolualdehyde	529-20-4	571AT	571AT badge	6.30			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						

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
Total Hydrocarbons	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	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.
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
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		
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 Organic Solvent Panel. (OSP). Search for "OSP" to see all the
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	6.69	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	J537GF203	Cassette, GFF Cassette	1.0 L/min			0.0085 PPM	25	120	10	MOD OSHA PV2141			
Triethylenetetramine #	112-24-3	585AT #	585AT Badge	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 Badge	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			0.0071 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	8.60			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 Badge	7.21			0.063 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	#N/A	6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
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 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	
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		
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	
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			0.00099 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	0.064 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
Zinc	7440-66-6	J5-024 SMR TAB	Smear Tab					2	#N/A	6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
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	#N/A	6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
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 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	