

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022018\
 Data File : VX000115.D
 Acq On : 20 Feb 2018 18:46
 Operator : JC/MD
 Sample : MDL02 2PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL02 2PPB

Manual Integrations
 APPROVED

apatel
 2/22/2018 4:04:54 PM

Quant Time: Feb 21 06:33:35 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 21 06:17:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	16170	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	95489	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	89717	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	38669	30.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.00%
60) 4-Bromofluorobenzene	11.15	95	43257	29.47	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.23%
63) Toluene-d8	8.73	98	117879	30.67	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.23%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	2052	2.04	ug/l	96
3) Chloromethane	1.32	50	2254	2.24	ug/l	89
4) Vinyl Chloride	1.40	62	2660	2.22	ug/l	97
5) Bromomethane	1.64	94	2782	2.52	ug/l	91
6) Chloroethane	1.73	64	1815	2.37	ug/l	94
7) Trichlorofluoromethane	1.93	101	4605	2.22	ug/l	100
8) Diethyl Ether	2.20	74	1584	2.19	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.39	101	2309	2.04	ug/l	94
10) 1,1-Dichloroethene	2.37	96	2510	2.32	ug/l	97
11) Methyl Iodide	2.52	142	1653	1.57	ug/l	97
12) Methyl Acetate	2.78	43	4469	2.31	ug/l	98
13) Acrolein	2.30	56	2564	11.04	ug/l	85
14) Acrylonitrile	3.16	53	9120	10.90	ug/l	98
15) Acetone	2.45	58	2863	10.50	ug/l	82
16) Carbon Disulfide	2.57	76	6616	2.14	ug/l #	95
17) Allyl chloride	2.73	41	3957	2.15	ug/l	89
18) Methylene Chloride	2.87	84	3029	2.57	ug/l #	80
19) trans-1,2-Dichloroethene	3.17	96	2451	2.09	ug/l	98
20) Diisopropyl ether	3.89	45	5765	1.98	ug/l #	92
21) 1,1-Dichloroethane	3.70	63	3986	2.08	ug/l #	93
22) cis-1,2-Dichloroethene	4.61	96	2317	2.12	ug/l	95
23) tert-Butyl Alcohol	3.09	59	5172	10.82	ug/l #	100
24) Methyl tert-Butyl Ether	3.23	73	8117	2.18	ug/l	93
25) Chloroform	5.23	83	3844	2.02	ug/l	85
26) Cyclohexane	5.59	56	3149m	2.09	ug/l	
29) 1,1-Dichloropropene	5.81	75	2788	2.00	ug/l	85
30) 2-Butanone	4.73	43	11067	10.34	ug/l #	80
31) 2,2-Dichloropropane	4.59	77	2877	1.92	ug/l #	63
32) 1,1,1-Trichloroethane	5.51	97	3362m	2.00	ug/l	
33) Carbon Tetrachloride	5.80	117	2935m	1.96	ug/l	
34) Benzene	6.16	78	8281	2.07	ug/l	95
35) Methacrylonitrile	5.09	41	2316m	2.35	ug/l	
36) 1,2-Dichloroethane	6.21	62	3086	2.03	ug/l #	86
37) Trichloroethene	7.23	130	2313	1.96	ug/l	87
38) Methylcyclohexane	7.47	83	3462	2.08	ug/l	97
39) 1,2-Dichloropropane	7.52	63	2059	2.06	ug/l #	88
40) Dibromomethane	7.68	93	1591	2.07	ug/l	92

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022018\
 Data File : VX000115.D
 Acq On : 20 Feb 2018 18:46
 Operator : JC/MD
 Sample : MDL02 2PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL02 2PPB

Manual Integrations
 APPROVED

apatel
 2/22/2018 4:04:54 PM

Quant Time: Feb 21 06:33:35 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 21 06:17:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.91	83	2800	1.91	ug/l	96
42) Vinyl Acetate	3.84	43	25689	9.42	ug/l	100
43) Ethyl Acetate	4.88	43	4136	2.20	ug/l #	77
44) Isopropyl Acetate	6.49	43	5795	2.10	ug/l	96
45) 1,4-Dioxane	7.78	88	1454	41.91	ug/l #	34
46) Methyl methacrylate	7.79	41	2755	2.05	ug/l	96
47) n-amyl Acetate	10.91	43	4568	1.90	ug/l	100
48) t-1,3-Dichloropropene	8.45	75	2813	1.65	ug/l #	79
49) cis-1,3-Dichloropropene	9.05	75	3013	1.82	ug/l	96
50) 1,1,2-Trichloroethane	9.23	97	2205	1.95	ug/l	89
51) Ethyl methacrylate	9.19	69	3299	1.91	ug/l	96
52) 1,3-Dichloropropane	9.38	76	3696	2.04	ug/l	97
53) Dibromochloromethane	9.59	129	2115	1.68	ug/l	93
54) 1,2-Dibromoethane	9.68	107	2280	1.81	ug/l	92
55) 2-Chloroethyl vinyl ether	8.32	63	8043	10.64	ug/l	98
56) Bromoform	10.87	173	1497	1.47	ug/l	98
58) 4-Methyl-2-Pentanone	8.66	43	20298	10.33	ug/l	98
59) 2-Hexanone	9.51	43	16450	9.89	ug/l	97
61) Tetrachloroethene	9.34	164	2013	1.85	ug/l	89
62) Toluene	8.79	91	9497	2.03	ug/l	98
64) Chlorobenzene	10.15	112	6359	2.02	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	1935	1.73	ug/l	94
66) Ethyl Benzene	10.26	91	10608	1.99	ug/l	98
67) m/p-Xylenes	10.37	106	8250	3.95	ug/l	97
68) o-Xylene	10.71	106	3910	1.93	ug/l	99
69) Styrene	10.72	104	6142	1.83	ug/l	98
70) Isopropylbenzene	11.03	105	10546	1.92	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	3614	1.92	ug/l	97
72) 1,2,3-Trichloropropane	11.30	75	3148m	1.86	ug/l	
73) Bromobenzene	11.26	156	2565	1.78	ug/l	87
74) n-propylbenzene	11.37	91	12722	1.98	ug/l	97
75) 2-Chlorotoluene	11.43	91	7230	1.96	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	8694	1.87	ug/l	66
77) t-1,4-Dichloro-2-butene	11.09	75	960	1.60	ug/l	98
78) 4-Chlorotoluene	11.52	91	8252	1.86	ug/l	99
79) tert-butylbenzene	11.78	119	8553m	1.85	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	8870	1.87	ug/l	98
81) sec-Butylbenzene	11.96	105	11113	1.94	ug/l	96
82) p-Isopropyltoluene	12.07	119	9175	1.80	ug/l	97
83) 1,3-Dichlorobenzene	12.04	146	5257	1.92	ug/l	97
84) 1,4-Dichlorobenzene	12.11	146	5299	1.86	ug/l	98
85) n-Butylbenzene	12.40	91	8580	1.79	ug/l	95
86) Hexachloroethane	12.60	117	1315	1.54	ug/l	82
87) 1,2-Dichlorobenzene	12.40	146	5181	1.91	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.01	75	1037	1.97	ug/l #	78
89) 1,2,4-Trichlorobenzene	13.66	180	3608	1.81	ug/l	98
90) Hexachlorobutadiene	13.79	225	1491	1.74	ug/l	91
91) Naphthalene	13.84	128	12645	1.82	ug/l	98
92) 1,2,3-Trichlorobenzene	14.03	180	3523	1.76	ug/l	91

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022018\
Data File : VX000115.D
Acq On : 20 Feb 2018 18:46
Operator : JC/MD
Sample : MDL02 2PPB
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MDL02 2PPB

Manual Integrations
APPROVED

apatel
2/22/2018 4:04:54 PM

Quant Time: Feb 21 06:33:35 2018
Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Feb 21 06:17:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

(#) = qualifier out of range (m) = manual integration (+) = signals summed

