

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052518\
 Data File : VX001961.D
 Acq On : 25 May 2018 00:46
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX052518

Manual Integrations
 APPROVED

MMDadoda
 5/29/2018 4:39:20 PM

Quant Time: May 25 02:32:09 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 02:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	68645	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	376969	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	340512	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	162270	30.04	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.13%
60) 4-Bromofluorobenzene	11.14	95	170581	29.26	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.53%
63) Toluene-d8	8.72	98	450809	29.70	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	72572	19.914	ug/l 98
3) Chloromethane	1.32	50	87478	20.179	ug/l 99
4) Vinyl Chloride	1.40	62	84291	19.546	ug/l 100
5) Bromomethane	1.64	94	63877	26.439	ug/l 96
6) Chloroethane	1.73	64	51404	20.149	ug/l 98
7) Trichlorofluoromethane	1.93	101	132496	20.144	ug/l 99
8) Diethyl Ether	2.19	74	49672	20.066	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	69960	19.751	ug/l 97
10) 1,1-Dichloroethene	2.37	96	67966	19.901	ug/l 98
11) Methyl Iodide	2.51	142	81391	15.170	ug/l 95
12) Methyl Acetate	2.79	43	111293	20.104	ug/l 98
13) Acrolein	2.30	56	45690	96.942	ug/l 97
14) Acrylonitrile	3.15	53	229100	100.593	ug/l 100
15) Acetone	2.45	58	60350	99.400	ug/l 100
16) Carbon Disulfide	2.57	76	202367	20.750	ug/l 100
17) Allyl chloride	2.73	41	140638	19.951	ug/l 98
18) Methylene Chloride	2.86	84	76255	19.866	ug/l 98
19) trans-1,2-Dichloroethene	3.17	96	73079	20.238	ug/l 99
20) Diisopropyl ether	3.88	45	263349	19.567	ug/l 96
21) 1,1-Dichloroethane	3.70	63	140418	19.600	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	86674	20.133	ug/l 93
23) tert-Butyl Alcohol	3.08	59	121159	102.566	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	266074	19.959	ug/l 99
25) Chloroform	5.23	83	147306	19.556	ug/l 100
26) Cyclohexane	5.58	56	130060	19.726	ug/l # 99
29) 1,1-Dichloropropene	5.81	75	106395	20.173	ug/l 99
30) 2-Butanone	4.72	43	375275	102.010	ug/l 100
31) 2,2-Dichloropropane	4.59	77	86573	18.677	ug/l 99
32) 1,1,1-Trichloroethane	5.50	97	138589	20.120	ug/l 99
33) Carbon Tetrachloride	5.79	117	124541	19.896	ug/l 96
34) Benzene	6.15	78	317647	19.945	ug/l 98
35) Methacrylonitrile	5.07	41	81281	19.952	ug/l 99
36) 1,2-Dichloroethane	6.21	62	127156	20.493	ug/l 99
37) Trichloroethene	7.22	130	90241	19.975	ug/l 96
38) Methylcyclohexane	7.46	83	123806	20.119	ug/l 99
39) 1,2-Dichloropropane	7.52	63	85211	19.788	ug/l 96
40) Dibromomethane	7.67	93	58413	20.219	ug/l 98

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052518\
 Data File : VX001961.D
 Acq On : 25 May 2018 00:46
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX052518

Manual Integrations
 APPROVED

MMDadoda
 5/29/2018 4:39:20 PM

Quant Time: May 25 02:32:09 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 02:17:15 2018
 Response via : Initial Calibration

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

41) Bromodichloromethane	7.90	83	118253	19.730	ug/l	97
42) Vinyl Acetate	3.83	43	1181091	101.480	ug/l	100
43) Ethyl Acetate	4.87	43	145218	20.111	ug/l	98
44) Isopropyl Acetate	6.48	43	241286	20.094	ug/l	100
45) 1,4-Dioxane	7.76	88	46190	404.358	ug/l	93
46) Methyl methacrylate	7.79	41	121611	20.000	ug/l	99
47) n-amyl Acetate	10.90	43	217256	19.667	ug/l #	91
48) t-1,3-Dichloropropene	8.44	75	132688	19.700	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	128663	19.733	ug/l	98
50) 1,1,2-Trichloroethane	9.22	97	83062	20.027	ug/l	98
51) Ethyl methacrylate	9.19	69	143174	19.927	ug/l	96
52) 1,3-Dichloropropane	9.38	76	140913	20.141	ug/l	100
53) Dibromochloromethane	9.59	129	98438	19.427	ug/l	100
54) 1,2-Dibromoethane	9.68	107	88484	19.705	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	341749	101.339	ug/l	100
56) Bromoform	10.87	173	83627	18.769	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	758384	102.344	ug/l	100
59) 2-Hexanone	9.51	43	586974	102.081	ug/l	99
61) Tetrachloroethene	9.34	164	98846	19.032	ug/l	98
62) Toluene	8.79	91	349987	20.126	ug/l	98
64) Chlorobenzene	10.15	112	222952	19.809	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	91495	19.976	ug/l	98
66) Ethyl Benzene	10.26	91	387416	19.822	ug/l	99
67) m/p-Xylenes	10.37	106	294106	39.639	ug/l	100
68) o-Xylene	10.70	106	148178	19.940	ug/l	99
69) Styrene	10.72	104	244865	19.629	ug/l	99
70) Isopropylbenzene	11.02	105	396471	19.931	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	124847	20.023	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	129256m	22.010	ug/l	
73) Bromobenzene	11.26	156	105137	19.677	ug/l	99
74) n-propylbenzene	11.37	91	440751	19.848	ug/l	100
75) 2-Chlorotoluene	11.43	91	271299	19.810	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	331113	19.576	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	40343	18.961	ug/l	93
78) 4-Chlorotoluene	11.52	91	305175	19.594	ug/l	100
79) tert-butylbenzene	12.07	119	344207	19.408	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	339190	19.837	ug/l	100
81) sec-Butylbenzene	11.95	105	388548	19.599	ug/l	99
82) p-Isopropyltoluene	12.07	119	344207	19.408	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	185613	19.604	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	184880	19.618	ug/l	100
85) n-Butylbenzene	12.39	91	282912	19.021	ug/l	99
86) Hexachloroethane	12.60	117	68211	19.328	ug/l	100
87) 1,2-Dichlorobenzene	12.40	146	190588	19.544	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	36126	19.894	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	133219	19.235	ug/l	100
90) Hexachlorobutadiene	13.79	225	70230	19.063	ug/l	98
91) Naphthalene	13.84	128	441027	20.181	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	141346	19.541	ug/l	99

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052518\
Data File : VX001961.D
Acq On : 25 May 2018 00:46
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX052518

Manual Integrations
APPROVED

MMDadoda
5/29/2018 4:39:20 PM

Quant Time: May 25 02:32:09 2018
Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 25 02:17:15 2018
Response via : Initial Calibration

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

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

