

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010983.D
 Acq On : 19 Jul 2019 01:28
 Operator : JC/SP
 Sample : K3591-08 L00
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 3:12:58 PM

Quant Time: Jul 19 03:46:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	38274	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	214024	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	191176	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	77355	29.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.37%
60) 4-Bromofluorobenzene	11.13	95	89517	28.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.83%
63) Toluene-d8	8.71	98	254526	30.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	9793	3.870 ug/l	84
3) Chloromethane	1.32	50	10746	4.829 ug/l	99
4) Vinyl Chloride	1.41	62	10857	4.679 ug/l	93
5) Bromomethane	1.64	94	7703	6.031 ug/l	99
6) Chloroethane	1.72	64	6643	4.839 ug/l	96
7) Trichlorofluoromethane	1.93	101	18888	4.901 ug/l	97
8) Diethyl Ether	2.19	74	6526	5.157 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.38	101	10441	4.902 ug/l	98
10) 1,1-Dichloroethene	2.37	96	10688	4.993 ug/l	98
11) Methyl Iodide	2.51	142	9353	3.254 ug/l	98
12) Methyl Acetate	2.78	43	18486	6.149 ug/l	99
13) Acrolein	2.29	56	7167	19.883 ug/l	98
14) Acrylonitrile	3.14	53	28400	24.137 ug/l	97
15) Acetone	2.45	58	8562	26.132 ug/l	90
16) Carbon Disulfide	2.57	76	26115	4.748 ug/l	100
17) Allyl chloride	2.73	41	14090	4.547 ug/l	94
18) Methylene Chloride	2.85	84	12266	5.146 ug/l	91
19) trans-1,2-Dichloroethene	3.17	96	11403	5.043 ug/l	94
20) Diisopropyl ether	3.86	45	31117	4.757 ug/l	92
21) 1,1-Dichloroethane	3.70	63	18077	4.802 ug/l	95
22) cis-1,2-Dichloroethene	4.60	96	12650	4.864 ug/l	99
23) tert-Butyl Alcohol	3.04	59	21434	34.890 ug/l	# 100
24) Methyl tert-Butyl Ether	3.19	73	33763	4.914 ug/l	98
25) Chloroform	5.21	83	19471	4.722 ug/l	94
26) Cyclohexane	5.59	56	17258	5.010 ug/l	# 100
29) 1,1-Dichloropropene	5.80	75	14742	4.898 ug/l	89
30) 2-Butanone	4.67	43	39395	24.248 ug/l	100
31) 2,2-Dichloropropane	4.58	77	10834m	4.124 ug/l	
32) 1,1,1-Trichloroethane	5.49	97	16249	4.477 ug/l	99
33) Carbon Tetrachloride	5.78	117	13650	4.325 ug/l	97
34) Benzene	6.14	78	44093	4.884 ug/l	96
35) Methacrylonitrile	5.05	41	7613	4.501 ug/l	96
36) 1,2-Dichloroethane	6.20	62	15642	4.845 ug/l	# 87
37) Trichloroethene	7.21	130	12486	4.724 ug/l	95
38) Methylcyclohexane	7.46	83	17772	4.679 ug/l	98
39) 1,2-Dichloropropane	7.51	63	10662	4.725 ug/l	99
40) Dibromomethane	7.66	93	7909	4.765 ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010983.D
 Acq On : 19 Jul 2019 01:28
 Operator : JC/SP
 Sample : K3591-08 L00
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 3:12:58 PM

Quant Time: Jul 19 03:46:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	12719	4.210	ug/l	99
42) Vinyl Acetate	3.81	43	111439	20.819	ug/l	99
43) Ethyl Acetate	4.84	43	13381	4.291	ug/l #	89
44) Isopropyl Acetate	6.45	43	21427	4.218	ug/l	97
45) 1,4-Dioxane	7.74	88	6455	97.633	ug/l #	95
46) Methyl methacrylate	7.77	41	10581	4.291	ug/l	92
47) n-amyl Acetate	10.90	43	16372	3.594	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	12252	3.848	ug/l	94
49) cis-1,3-Dichloropropene	8.43	75	13828	3.980	ug/l	91
50) 1,1,2-Trichloroethane	9.21	97	11154	4.592	ug/l	94
51) Ethyl methacrylate	9.18	69	16645	4.431	ug/l	99
52) 1,3-Dichloropropane	9.37	76	18186	4.659	ug/l	95
53) Dibromochloromethane	9.58	129	9812	3.740	ug/l	98
54) 1,2-Dibromoethane	9.67	107	11861	4.493	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	40213	25.276	ug/l	99
56) Bromoform	10.85	173	6896	3.529	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	76704	23.757	ug/l	99
59) 2-Hexanone	9.49	43	58773	23.789	ug/l	100
61) Tetrachloroethene	9.33	164	13019	5.158	ug/l	96
62) Toluene	8.79	91	49277	4.852	ug/l	100
64) Chlorobenzene	10.14	112	31684	4.869	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.22	131	9952	4.208	ug/l	97
66) Ethyl Benzene	10.25	91	53624	4.690	ug/l	96
67) m/p-Xylenes	10.36	106	42617	9.743	ug/l	99
68) o-Xylene	10.69	106	19964	4.658	ug/l	94
69) Styrene	10.71	104	31560	4.381	ug/l	96
70) Isopropylbenzene	11.02	105	53004	4.644	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	17155	4.661	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	14662m	4.773	ug/l	
73) Bromobenzene	11.26	156	14241	4.625	ug/l	97
74) n-propylbenzene	11.36	91	59184	4.607	ug/l	100
75) 2-Chlorotoluene	11.42	91	35447	4.633	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	43789	4.533	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	3178	3.136	ug/l	70
78) 4-Chlorotoluene	11.51	91	39904	4.542	ug/l	99
79) tert-butylbenzene	11.77	119	41840	4.465	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	43568	4.478	ug/l	100
81) sec-Butylbenzene	11.94	105	49789	4.508	ug/l	98
82) p-Isopropyltoluene	12.06	119	45311	4.421	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	25543	4.699	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	24955	4.619	ug/l	99
85) n-Butylbenzene	12.38	91	35598	4.079	ug/l	99
86) Hexachloroethane	12.59	117	5852	3.620	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	25166	4.728	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	3147	3.884	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	15871	4.323	ug/l	97
90) Hexachlorobutadiene	13.78	225	7546	4.251	ug/l	95
91) Naphthalene	13.83	128	45956	4.103	ug/l	98
92) 1,2,3-Trichlorobenzene	14.02	180	15678	4.261	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
Data File : VX010983.D
Acq On : 19 Jul 2019 01:28
Operator : JC/SP
Sample : K3591-08 L00
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT3-2019

Manual Integrations
APPROVED

MMDadoda
7/19/2019 3:12:58 PM

Quant Time: Jul 19 03:46:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 19 03:27:28 2019
Response via : Initial Calibration

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

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

