

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031819\
 Data File : VX008170.D
 Acq On : 18 Mar 2019 17:20
 Operator : JC/SP
 Sample : VX0318WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0318WBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:37:34 AM

Quant Time: Mar 19 03:21:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Mar 18 14:34:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	51762	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	290081	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	249694	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	131358	30.51	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.70%
60) 4-Bromofluorobenzene	11.13	95	123863	29.72	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.07%
63) Toluene-d8	8.71	98	367984	30.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	42349	18.259	ug/l 98
3) Chloromethane	1.33	50	53438	18.278	ug/l 94
4) Vinyl Chloride	1.41	62	54886	18.206	ug/l 100
5) Bromomethane	1.64	94	34064	14.191	ug/l 100
6) Chloroethane	1.73	64	34472	18.291	ug/l 98
7) Trichlorofluoromethane	1.93	101	70022	18.447	ug/l 99
8) Diethyl Ether	2.19	74	39229	19.140	ug/l 83
9) 1,1,2-Trichlorotrifluoroet	2.39	101	48745	18.932	ug/l 92
10) 1,1-Dichloroethene	2.38	96	46345	19.054	ug/l 83
11) Methyl Iodide	2.51	142	57911	18.706	ug/l 98
12) Methyl Acetate	2.78	43	77923	19.574	ug/l 91
13) Acrolein	2.29	56	47974	78.364	ug/l 98
14) Acrylonitrile	3.14	53	165510	93.695	ug/l 99
15) Acetone	2.45	58	48814	86.005	ug/l 87
16) Carbon Disulfide	2.57	76	142787	18.415	ug/l 100
17) Allyl chloride	2.73	41	98404	18.511	ug/l 96
18) Methylene Chloride	2.86	84	54654	19.284	ug/l 86
19) trans-1,2-Dichloroethene	3.17	96	50010	19.139	ug/l 96
20) Diisopropyl ether	3.86	45	201293	19.335	ug/l # 93
21) 1,1-Dichloroethane	3.70	63	102967	19.380	ug/l 95
22) cis-1,2-Dichloroethene	4.60	96	57512	19.306	ug/l # 82
23) tert-Butyl Alcohol	3.04	59	62147	95.493	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	169762	19.240	ug/l 97
25) Chloroform	5.21	83	97152	19.383	ug/l 94
26) Cyclohexane	5.59	56	94544	18.665	ug/l # 85
29) 1,1-Dichloropropene	5.81	75	72109	18.678	ug/l 94
30) 2-Butanone	4.68	43	244744	90.434	ug/l 95
31) 2,2-Dichloropropane	4.59	77	71904	18.466	ug/l 95
32) 1,1,1-Trichloroethane	5.49	97	79305	19.393	ug/l # 94
33) Carbon Tetrachloride	5.79	117	65018	18.945	ug/l 97
34) Benzene	6.15	78	222146	19.242	ug/l # 97
35) Methacrylonitrile	5.04	41	51872m	19.700	ug/l
36) 1,2-Dichloroethane	6.20	62	82913	19.787	ug/l 97
37) Trichloroethene	7.21	130	51997	18.901	ug/l 81
38) Methylcyclohexane	7.46	83	83890	17.889	ug/l 89
39) 1,2-Dichloropropane	7.51	63	61600	19.592	ug/l 97
40) Dibromomethane	7.66	93	37608	19.537	ug/l 89

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

41) Bromodichloromethane	7.90	83	71452	19.196	ug/l	96
42) Vinyl Acetate	3.82	43	876961	96.352	ug/l #	94
43) Ethyl Acetate	4.84	43	91731	19.118	ug/l #	84
44) Isopropyl Acetate	6.45	43	139665	18.767	ug/l	99
45) 1,4-Dioxane	7.74	88	26685	383.845	ug/l #	85
46) Methyl methacrylate	7.77	41	74392	18.945	ug/l	89
47) n-amyl Acetate	10.90	43	117721	18.512	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	74585	18.129	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	85922	18.772	ug/l	93
50) 1,1,2-Trichloroethane	9.21	97	55513	20.086	ug/l	95
51) Ethyl methacrylate	9.18	69	85710	19.130	ug/l	90
52) 1,3-Dichloropropane	9.37	76	95716	19.342	ug/l	100
53) Dibromochloromethane	9.58	129	50309	18.826	ug/l	100
54) 1,2-Dibromoethane	9.67	107	55993	19.412	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	318925	99.983	ug/l	95
56) Bromoform	10.86	173	35127	18.270	ug/l #	97
58) 4-Methyl-2-Pentanone	8.64	43	471466	98.727	ug/l	96
59) 2-Hexanone	9.49	43	359286	95.359	ug/l	97
61) Tetrachloroethene	9.34	164	50767	20.188	ug/l	96
62) Toluene	8.79	91	229856	19.465	ug/l	99
64) Chlorobenzene	10.14	112	134881	19.192	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	48621	19.729	ug/l	97
66) Ethyl Benzene	10.25	91	240854	19.096	ug/l	96
67) m/p-Xylenes	10.36	106	176152	37.805	ug/l	90
68) o-Xylene	10.70	106	85825	19.168	ug/l	91
69) Styrene	10.71	104	139833	19.173	ug/l	96
70) Isopropylbenzene	11.02	105	230569	19.098	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.27	83	85480	20.213	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	84954m	23.296	ug/l	
73) Bromobenzene	11.26	156	54917	19.215	ug/l	81
74) n-propylbenzene	11.36	91	266451	18.641	ug/l	95
75) 2-Chlorotoluene	11.42	91	164227	19.557	ug/l	91
76) 1,3,5-Trimethylbenzene	11.51	105	191206	19.152	ug/l	95
77) t-1,4-Dichloro-2-butene	11.07	75	24059	18.360	ug/l	93
78) 4-Chlorotoluene	11.51	91	183436	18.964	ug/l	92
79) tert-butylbenzene	12.06	119	190015	18.690	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	193006	19.153	ug/l	95
81) sec-Butylbenzene	11.94	105	225357	18.902	ug/l	96
82) p-Isopropyltoluene	12.06	119	190015	18.690	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	95743	18.694	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	94927	18.675	ug/l	94
85) n-Butylbenzene	12.38	91	171917	17.933	ug/l	96
86) Hexachloroethane	12.60	117	32303	18.536	ug/l	94
87) 1,2-Dichlorobenzene	12.39	146	97428	19.091	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	13.00	75	17126	18.287	ug/l #	76
89) 1,2,4-Trichlorobenzene	13.65	180	61549	18.515	ug/l	98
90) Hexachlorobutadiene	13.78	225	31160	18.062	ug/l	98
91) Naphthalene	13.83	128	202296	18.788	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	61905	18.644	ug/l	99

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

