

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021619\
 Data File : VX007566.D
 Acq On : 15 Feb 2019 14:25
 Operator : JC/SP
 Sample : VX0216WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0216WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/18/2019 10:40:33 AM

Quant Time: Feb 16 03:59:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:51:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	79153	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	403347	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	358883	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	148701	29.04	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.80%
60) 4-Bromofluorobenzene	11.13	95	166295	30.19	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.63%
63) Toluene-d8	8.71	98	482072	29.72	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	80105	19.985	ug/l 97
3) Chloromethane	1.33	50	81579	18.519	ug/l 100
4) Vinyl Chloride	1.41	62	93778	18.926	ug/l 97
5) Bromomethane	1.64	94	71190	16.089	ug/l 100
6) Chloroethane	1.73	64	60419	17.938	ug/l 96
7) Trichlorofluoromethane	1.93	101	147926	19.045	ug/l 98
8) Diethyl Ether	2.19	74	57324	18.475	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	86798	19.806	ug/l 98
10) 1,1-Dichloroethene	2.38	96	82145	18.890	ug/l 99
11) Methyl Iodide	2.51	142	105912	16.946	ug/l 97
12) Methyl Acetate	2.78	43	108139	18.032	ug/l 100
13) Acrolein	2.30	56	98807	94.453	ug/l 98
14) Acrylonitrile	3.15	53	256830	92.948	ug/l 99
15) Acetone	2.45	58	73729	98.319	ug/l 95
16) Carbon Disulfide	2.57	76	216135	18.743	ug/l 99
17) Allyl chloride	2.73	41	138280	18.560	ug/l 98
18) Methylene Chloride	2.86	84	89990	18.402	ug/l 98
19) trans-1,2-Dichloroethene	3.17	96	87314	18.773	ug/l 99
20) Diisopropyl ether	3.87	45	266891	18.955	ug/l 92
21) 1,1-Dichloroethane	3.70	63	150989	19.128	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	97925	18.919	ug/l 98
23) tert-Butyl Alcohol	3.07	59	114978	99.000	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	278714	18.469	ug/l 100
25) Chloroform	5.21	83	158174	18.972	ug/l 96
26) Cyclohexane	5.57	56	130845	19.767	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	112257	19.952	ug/l 99
30) 2-Butanone	4.70	43	345153	103.663	ug/l 99
31) 2,2-Dichloropropane	4.59	77	107847	23.593	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	133363	19.831	ug/l 99
33) Carbon Tetrachloride	5.78	117	115719	19.466	ug/l 100
34) Benzene	6.14	78	350500	19.761	ug/l 98
35) Methacrylonitrile	5.06	41	69238	20.000	ug/l 97
36) 1,2-Dichloroethane	6.20	62	117022	19.387	ug/l 99
37) Trichloroethene	7.21	130	102480	20.096	ug/l 98
38) Methylcyclohexane	7.46	83	135172	20.754	ug/l 99
39) 1,2-Dichloropropane	7.52	63	88604	20.084	ug/l 98
40) Dibromomethane	7.66	93	62529	19.625	ug/l 95

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

41) Bromodichloromethane	7.90	83	108737	19.231	ug/l	100
42) Vinyl Acetate	3.82	43	1179121	101.174	ug/l	100
43) Ethyl Acetate	4.86	43	129968	20.383	ug/l #	84
44) Isopropyl Acetate	6.46	43	193832	19.689	ug/l	100
45) 1,4-Dioxane	7.75	88	46779	402.621	ug/l	98
46) Methyl methacrylate	7.77	41	99500	19.959	ug/l	99
47) n-amyl Acetate	10.90	43	167667	19.323	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	113571	19.456	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	128895	19.829	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	94537	20.349	ug/l	96
51) Ethyl methacrylate	9.18	69	129050	19.160	ug/l	98
52) 1,3-Dichloropropane	9.37	76	147971	19.746	ug/l	100
53) Dibromochloromethane	9.58	129	91129	18.859	ug/l	98
54) 1,2-Dibromoethane	9.67	107	99870	19.632	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	338249	98.780	ug/l	100
56) Bromoform	10.85	173	68173	18.704	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	659267	102.129	ug/l	100
59) 2-Hexanone	9.49	43	504598	102.912	ug/l	99
61) Tetrachloroethene	9.34	164	102430	20.105	ug/l	97
62) Toluene	8.79	91	385304	19.713	ug/l	99
64) Chlorobenzene	10.14	112	248240	19.544	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	88979	19.341	ug/l	99
66) Ethyl Benzene	10.25	91	402968	19.429	ug/l	99
67) m/p-Xylenes	10.36	106	319849	39.317	ug/l	98
68) o-Xylene	10.70	106	155657	19.618	ug/l	97
69) Styrene	10.71	104	248345	19.396	ug/l	100
70) Isopropylbenzene	11.02	105	411362	19.652	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	136738	19.761	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	130064m	20.558	ug/l	
73) Bromobenzene	11.26	156	109472	19.156	ug/l	97
74) n-propylbenzene	11.36	91	457309	19.676	ug/l	100
75) 2-Chlorotoluene	11.42	91	273347	19.670	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	335816	19.654	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	34912	19.117	ug/l	97
78) 4-Chlorotoluene	11.51	91	307549	19.389	ug/l	99
79) tert-butylbenzene	12.06	119	360762	19.884	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	345113	19.897	ug/l	99
81) sec-Butylbenzene	11.94	105	403696	19.784	ug/l	99
82) p-Isopropyltoluene	12.06	119	360762	19.884	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	193319	19.242	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	196151	19.565	ug/l	99
85) n-Butylbenzene	12.39	91	291279	19.346	ug/l	100
86) Hexachloroethane	12.60	117	56582	18.784	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	195789	19.416	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	27425	18.992	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	127255	19.215	ug/l	100
90) Hexachlorobutadiene	13.78	225	61744	19.954	ug/l	99
91) Naphthalene	13.83	128	405606	19.203	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	129031	19.166	ug/l	99

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

