

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011520\
 Data File : VX014617.D
 Acq On : 15 Jan 2020 14:42
 Operator : JC/SP
 Sample : VX0115WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0115WBSD01

Manual Integrations
 APPROVED

MMDadoda
 1/16/2020 9:42:22 AM

Quant Time: Jan 16 01:53:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	78009	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	422555	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	380134	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	164298	29.96	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.87%
60) 4-Bromofluorobenzene	11.13	95	184781	30.38	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.27%
63) Toluene-d8	8.71	98	518368	30.19	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	108998	20.218	ug/l 99
3) Chloromethane	1.32	50	116043	19.660	ug/l 95
4) Vinyl Chloride	1.40	62	129059	19.473	ug/l 99
5) Bromomethane	1.64	94	74145	17.928	ug/l 100
6) Chloroethane	1.72	64	70999	19.004	ug/l 98
7) Trichlorofluoromethane	1.92	101	139262	18.978	ug/l 99
8) Diethyl Ether	2.18	74	63466	19.800	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	2.37	101	85287	19.865	ug/l 99
10) 1,1-Dichloroethene	2.37	96	81362	18.841	ug/l 94
11) Methyl Iodide	2.50	142	100631	17.376	ug/l 95
12) Methyl Acetate	2.76	43	156806	20.100	ug/l 99
13) Acrolein	2.28	56	73340	89.504	ug/l 96
14) Acrylonitrile	3.12	53	261915	98.121	ug/l 99
15) Acetone	2.43	58	80428	89.876	ug/l 88
16) Carbon Disulfide	2.56	76	229664	19.364	ug/l 99
17) Allyl chloride	2.72	41	145764	18.239	ug/l 96
18) Methylene Chloride	2.84	84	101878	20.158	ug/l 97
19) trans-1,2-Dichloroethene	3.16	96	90161	19.395	ug/l 96
20) Diisopropyl ether	3.84	45	311647	19.709	ug/l 97
21) 1,1-Dichloroethane	3.69	63	164884	19.194	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	101984	19.091	ug/l 95
23) tert-Butyl Alcohol	3.01	59	112492	101.901	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	286472	19.933	ug/l 100
25) Chloroform	5.19	83	158593	19.059	ug/l 99
26) Cyclohexane	5.57	56	153904	19.424	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	121524	19.610	ug/l 98
30) 2-Butanone	4.65	43	376503	95.909	ug/l 99
31) 2,2-Dichloropropane	4.57	77	128037	19.309	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	131589	19.193	ug/l 100
33) Carbon Tetrachloride	5.77	117	112147	19.053	ug/l 98
34) Benzene	6.13	78	373383	19.498	ug/l 98
35) Methacrylonitrile	5.02	41	75996	19.384	ug/l 96
36) 1,2-Dichloroethane	6.18	62	131952	19.800	ug/l 99
37) Trichloroethene	7.20	130	103790	19.795	ug/l 94
38) Methylcyclohexane	7.45	83	150778	19.541	ug/l 100
39) 1,2-Dichloropropane	7.50	63	96960	19.471	ug/l 96
40) Dibromomethane	7.65	93	63618	19.879	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	122780	19.592	ug/l	97
42) Vinyl Acetate	3.80	43	1218983	100.746	ug/l	99
43) Ethyl Acetate	4.81	43	138721	19.521	ug/l	99
44) Isopropyl Acetate	6.43	43	224170	19.554	ug/l	98
45) 1,4-Dioxane	7.73	88	47912	417.808	ug/l	99
46) Methyl methacrylate	7.76	41	108902	19.317	ug/l	100
47) n-amyl Acetate	10.89	43	187358	19.505	ug/l	100
48) t-1,3-Dichloropropene	9.03	75	133340	19.488	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	149713	19.419	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	94562	19.419	ug/l	98
51) Ethyl methacrylate	9.17	69	146417	19.311	ug/l	97
52) 1,3-Dichloropropane	9.36	76	163939	19.870	ug/l	100
53) Dibromochloromethane	9.57	129	96624	19.399	ug/l	99
54) 1,2-Dibromoethane	9.67	107	100006	19.802	ug/l	99
55) 2-Chloroethyl vinyl ether	8.30	63	325818	93.501	ug/l	99
56) Bromoform	10.85	173	73876	19.255	ug/l	98
58) 4-Methyl-2-Pentanone	8.63	43	717756	100.266	ug/l	99
59) 2-Hexanone	9.48	43	546914	98.787	ug/l	99
61) Tetrachloroethene	9.33	164	106810	19.010	ug/l	96
62) Toluene	8.78	91	402843	19.974	ug/l	99
64) Chlorobenzene	10.13	112	254863	20.243	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	92059	19.798	ug/l	98
66) Ethyl Benzene	10.25	91	438034	19.940	ug/l	98
67) m/p-Xylenes	10.36	106	333983	39.692	ug/l	100
68) o-Xylene	10.69	106	164592	20.088	ug/l	98
69) Styrene	10.71	104	271745	19.574	ug/l	99
70) Isopropylbenzene	11.01	105	432148	20.132	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	144203	19.943	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	124886m	20.192	ug/l	
73) Bromobenzene	11.25	156	112177	19.714	ug/l	100
74) n-propylbenzene	11.35	91	494093	20.144	ug/l	99
75) 2-Chlorotoluene	11.42	91	293106	19.938	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	359574	20.103	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	44768	18.807	ug/l	95
78) 4-Chlorotoluene	11.51	91	333484	19.975	ug/l	98
79) tert-butylbenzene	11.76	119	338813	20.244	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	356141	19.963	ug/l	100
81) sec-Butylbenzene	11.94	105	410623	19.828	ug/l	99
82) p-Isopropyltoluene	12.06	119	381614	20.185	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	199377	20.067	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	197362	20.036	ug/l	100
85) n-Butylbenzene	12.38	91	324408	19.611	ug/l	99
86) Hexachloroethane	12.59	117	65821	19.414	ug/l	93
87) 1,2-Dichlorobenzene	12.39	146	200771	20.027	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	29566	19.142	ug/l	96
89) 1,2,4-Trichlorobenzene	13.64	180	134284	20.293	ug/l	99
90) Hexachlorobutadiene	13.78	225	67458	20.402	ug/l	97
91) Naphthalene	13.83	128	393768	19.714	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	135330	20.093	ug/l	99

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

