

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121222\
 Data File : VX033371.D
 Acq On : 12 Dec 2022 13:51
 Operator : JC/MD
 Sample : VX1212WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1212WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/13/2022
 Supervised By : Mahesh Dadoda 12/13/2022

Quant Time: Dec 13 07:30:41 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:37:35 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.898	128	12462	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	90234	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	99250	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	34641	31.651	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.500%
60) 4-Bromofluorobenzene	11.079	95	56415	30.690	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	102.300%
63) Toluene-d8	8.647	98	98818	29.931	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.767%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	19774	21.726	ug/l	99
3) Chloromethane	1.295	50	19155	20.856	ug/l	94
4) Vinyl Chloride	1.374	62	22233	20.176	ug/l	98
5) Bromomethane	1.618	94	17671	21.929	ug/l	96
6) Chloroethane	1.691	64	16616	20.395	ug/l	96
7) Trichlorofluoromethane	1.892	101	45834	20.402	ug/l	96
8) Diethyl Ether	2.136	74	10686	15.231	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	25548	22.398	ug/l	98
10) 1,1-Dichloroethene	2.325	96	23364	21.756	ug/l	98
11) Methyl Iodide	2.453	142	24501	20.087	ug/l	96
12) Methyl Acetate	2.703	43	31560	20.839	ug/l	98
13) Acrolein	2.246	56	23992	100.138	ug/l	98
14) Acrylonitrile	3.069	53	56194	102.081	ug/l	98
15) Acetone	2.392	58	20249	107.013	ug/l	96
16) Carbon Disulfide	2.514	76	58498	20.219	ug/l	98
17) Allyl chloride	2.666	41	35838	20.330	ug/l	95
18) Methylene Chloride	2.788	84	25529	20.482	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	25725	20.562	ug/l	98
20) Diisopropyl ether	3.758	45	76018	20.493	ug/l	100
21) 1,1-Dichloroethane	3.611	63	44758	20.456	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	29459	20.284	ug/l	99
23) tert-Butyl Alcohol	2.995	59	25074m	106.740	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	78636	20.236	ug/l	99
25) Chloroform	5.093	83	50635	20.337	ug/l	99
26) Cyclohexane	5.471	56	39808	20.801	ug/l	# 100
29) 1,1-Dichloropropene	5.696	75	36226	19.864	ug/l	99
30) 2-Butanone	4.562	43	84780	99.447	ug/l	99
31) 2,2-Dichloropropane	4.477	77	37092	19.353	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	46636	19.810	ug/l	99
33) Carbon Tetrachloride	5.678	117	41690	19.366	ug/l	93
34) Benzene	6.038	78	103230	19.752	ug/l	98
35) Methacrylonitrile	4.916	41	17388	19.902	ug/l	94
36) 1,2-Dichloroethane	6.086	62	40187	20.004	ug/l	98
37) Trichloroethene	7.123	130	29128	19.628	ug/l	93
38) Methylcyclohexane	7.379	83	43023	20.021	ug/l	99
39) 1,2-Dichloropropane	7.428	63	25726	19.741	ug/l	98
40) Dibromomethane	7.580	93	19685	19.742	ug/l	98
41) Bromodichloromethane	7.824	83	39153	19.162	ug/l	99
42) Vinyl Acetate	3.721	43	291097	98.626	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	29173	19.032	ug/l	99
44) Isopropyl Acetate	6.336	43	50695	19.482	ug/l	100
45) 1,4-Dioxane	7.708	88	12871m	422.304	ug/l	
46) Methyl methacrylate	7.690	41	25981	20.044	ug/l	99
47) n-amyl Acetate	10.842	43	43228	19.795	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	38517	18.793	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	41817	19.009	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	27890	20.226	ug/l	98
51) Ethyl methacrylate	9.116	69	39233	19.913	ug/l	99
52) 1,3-Dichloropropane	9.305	76	44982	19.977	ug/l	99
53) Dibromochloromethane	9.519	129	31002	18.708	ug/l	98
54) 1,2-Dibromoethane	9.610	107	29847	19.774	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	85780	92.731	ug/l	100
56) Bromoform	10.799	173	22117	18.491	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	162929	101.516	ug/l	99
59) 2-Hexanone	9.427	43	125771	102.479	ug/l	100
61) Tetrachloroethene	9.275	164	26685	20.078	ug/l	98
62) Toluene	8.720	91	120111	19.937	ug/l	100
64) Chlorobenzene	10.080	112	74676	19.595	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	28957	19.241	ug/l	98
66) Ethyl Benzene	10.195	91	135168	19.912	ug/l	99
67) m/p-Xylenes	10.299	106	106396	40.098	ug/l	99
68) o-Xylene	10.640	106	51585	19.953	ug/l	99
69) Styrene	10.653	104	84696	19.720	ug/l	99
70) Isopropylbenzene	10.964	105	137655	20.065	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	41497	20.452	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	37107m	20.537	ug/l	
73) Bromobenzene	11.201	156	34519	20.336	ug/l	98
74) n-propylbenzene	11.305	91	158749	20.193	ug/l	99
75) 2-Chlorotoluene	11.366	91	95339	20.175	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	118124	20.480	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	10836	18.037	ug/l	98
78) 4-Chlorotoluene	11.451	91	109097	20.146	ug/l	99
79) tert-butylbenzene	11.713	119	115430	20.189	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	117184	20.670	ug/l	100
81) sec-Butylbenzene	11.890	105	139505	20.301	ug/l	99
82) p-Isopropyltoluene	12.012	119	119859	20.453	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	63287	20.257	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	64666	20.563	ug/l	99
85) n-Butylbenzene	12.335	91	100080	20.459	ug/l	99
86) Hexachloroethane	12.536	117	19835	19.070	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	63528	20.636	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8266	18.699	ug/l	90
89) 1,2,4-Trichlorobenzene	13.591	180	38827	20.417	ug/l	97
90) Hexachlorobutadiene	13.725	225	16820	20.844	ug/l	97
91) Naphthalene	13.774	128	127397	20.699	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	39172	20.569	ug/l	100

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

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