

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100623\
 Data File : VX038151.D
 Acq On : 07 Oct 2023 01:47
 Operator : JC/MD
 Sample : VX1006WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1006WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2023
 Supervised By : Mahesh Dadoda 10/09/2023

Quant Time: Oct 07 06:35:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X100623W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Oct 07 06:30:32 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.898	128	11175	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	86424	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	111255	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	47362	31.023	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 103.400%		
60) 4-Bromofluorobenzene	11.079	95	69686	30.068	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 100.233%		
63) Toluene-d8	8.647	98	131736	30.578	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 101.933%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	29268	21.764	ug/l	100
3) Chloromethane	1.301	50	27902	20.947	ug/l	92
4) Vinyl Chloride	1.374	62	33821	21.677	ug/l	100
5) Bromomethane	1.605	94	34955	18.516	ug/l	97
6) Chloroethane	1.691	64	26457	19.921	ug/l	91
7) Trichlorofluoromethane	1.892	101	68234	20.534	ug/l	100
8) Diethyl Ether	2.136	74	25718	21.215	ug/l	86
9) 1,1,2-Trichlorotrifluo...	2.331	101	26569	20.933	ug/l	97
10) 1,1-Dichloroethene	2.319	96	26513	21.440	ug/l	94
11) Methyl Iodide	2.453	142	38682	20.992	ug/l	98
12) Methyl Acetate	2.703	43	83578	19.859	ug/l	100
13) Acrolein	2.233	56	27073	102.617	ug/l	96
14) Acrylonitrile	3.062	53	101905	103.316	ug/l	96
15) Acetone	2.380	58	28016	106.671	ug/l	89
16) Carbon Disulfide	2.514	76	68834	20.832	ug/l	100
17) Allyl chloride	2.666	41	42897	20.643	ug/l	94
18) Methylene Chloride	2.788	84	33497	20.776	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	31833	20.556	ug/l	96
20) Diisopropyl ether	3.764	45	94785	20.785	ug/l	96
21) 1,1-Dichloroethane	3.611	63	57392	20.679	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	37490	20.555	ug/l	97
23) tert-Butyl Alcohol	2.953	59	44854m	103.464	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	100250	20.651	ug/l	99
25) Chloroform	5.093	83	63867	20.266	ug/l	100
26) Cyclohexane	5.471	56	48403	20.618	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	46921	20.520	ug/l	100
30) 2-Butanone	4.556	43	150210	102.205	ug/l	98
31) 2,2-Dichloropropane	4.477	77	30794	18.231	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	54240	19.852	ug/l	99
33) Carbon Tetrachloride	5.684	117	45454	19.636	ug/l	97
34) Benzene	6.038	78	135105	19.974	ug/l	98
35) Methacrylonitrile	4.916	41	27647	20.093	ug/l	96
36) 1,2-Dichloroethane	6.086	62	53581	20.419	ug/l	98
37) Trichloroethene	7.129	130	35390	19.866	ug/l	100
38) Methylcyclohexane	7.379	83	54216	19.906	ug/l	96
39) 1,2-Dichloropropane	7.428	63	34516	20.357	ug/l	94
40) Dibromomethane	7.586	93	26878	20.287	ug/l	96
41) Bromodichloromethane	7.824	83	47252	19.895	ug/l	96
42) Vinyl Acetate	3.721	43	342279	105.814	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	54285	20.189	ug/l	99
44) Isopropyl Acetate	6.342	43	81258	20.078	ug/l	99
45) 1,4-Dioxane	7.659	88	19678	382.615	ug/l #	1
46) Methyl methacrylate	7.696	41	39352	19.722	ug/l	99
47) n-amyl Acetate	10.842	43	69920	19.901	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	45876	18.791	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	49815	19.246	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	37626	20.115	ug/l	95
51) Ethyl methacrylate	9.116	69	55744	19.899	ug/l	98
52) 1,3-Dichloropropane	9.311	76	60098	19.757	ug/l	98
53) Dibromochloromethane	9.525	129	34711	18.732	ug/l	100
54) 1,2-Dibromoethane	9.610	107	40327	19.730	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	143468	101.468	ug/l	99
56) Bromoform	10.799	173	24627	17.783	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	297413	106.803	ug/l	98
59) 2-Hexanone	9.427	43	238361	106.467	ug/l	99
61) Tetrachloroethene	9.275	164	31768	20.898	ug/l	98
62) Toluene	8.720	91	153580	20.719	ug/l	98
64) Chlorobenzene	10.080	112	93835	20.215	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	33327	20.596	ug/l	98
66) Ethyl Benzene	10.195	91	173683	20.663	ug/l	99
67) m/p-Xylenes	10.305	106	131274	40.258	ug/l	95
68) o-Xylene	10.640	106	63128	19.952	ug/l	93
69) Styrene	10.659	104	106459	20.249	ug/l	99
70) Isopropylbenzene	10.964	105	170345	20.415	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	63104	20.518	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	56458m	20.185	ug/l	
73) Bromobenzene	11.195	156	41170	19.926	ug/l	98
74) n-propylbenzene	11.305	91	205797	20.296	ug/l	98
75) 2-Chlorotoluene	11.366	91	121117	20.328	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	145540	19.960	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	14034	18.432	ug/l	99
78) 4-Chlorotoluene	11.457	91	144337	20.371	ug/l	99
79) tert-butylbenzene	11.713	119	138970	20.063	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	144513	20.298	ug/l	98
81) sec-Butylbenzene	11.890	105	185771	20.501	ug/l	97
82) p-Isopropyltoluene	12.012	119	150397	20.077	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	79596	19.753	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	80227	19.554	ug/l	99
85) n-Butylbenzene	12.335	91	140594	19.670	ug/l	98
86) Hexachloroethane	12.536	117	24072	19.439	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	77776	19.913	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	14907	20.929	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	50775	20.025	ug/l	99
90) Hexachlorobutadiene	13.725	225	20431	20.032	ug/l	99
91) Naphthalene	13.774	128	177124	20.397	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	49056	19.764	ug/l	99

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

