

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011223\
 Data File : VX033705.D
 Acq On : 12 Jan 2023 12:03
 Operator : JC/MD
 Sample : VX0112WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0112WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/13/2023
 Supervised By : Mahesh Dadoda 01/13/2023

Quant Time: Jan 13 00:00:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	14795	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	101200	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	110186	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	36450	30.427	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 101.433%	
60) 4-Bromofluorobenzene	11.079	95	61151	30.792	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 102.633%	
63) Toluene-d8	8.647	98	108216	30.688	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.300%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	29912	19.332	ug/l	99
3) Chloromethane	1.295	50	27208	16.405	ug/l	99
4) Vinyl Chloride	1.374	62	27540	18.383	ug/l	100
5) Bromomethane	1.618	94	15410	18.570	ug/l	100
6) Chloroethane	1.691	64	16856	19.211	ug/l	99
7) Trichlorofluoromethane	1.892	101	47985	20.755	ug/l	96
8) Diethyl Ether	2.130	74	14152	18.800	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.331	101	21606	18.023	ug/l	98
10) 1,1-Dichloroethene	2.319	96	19762	17.485	ug/l	97
11) Methyl Iodide	2.453	142	29440	15.152	ug/l	94
12) Methyl Acetate	2.709	43	40978	17.318	ug/l	99
13) Acrolein	2.239	56	26740	104.810	ug/l	99
14) Acrylonitrile	3.069	53	80631	103.332	ug/l	99
15) Acetone	2.404	58	15974	90.458	ug/l	96
16) Carbon Disulfide	2.514	76	50683	15.410	ug/l	99
17) Allyl chloride	2.666	41	37728	15.691	ug/l	96
18) Methylene Chloride	2.788	84	32570	20.577	ug/l	90
19) trans-1,2-Dichloroethene	3.093	96	30317	19.965	ug/l	96
20) Diisopropyl ether	3.757	45	104584	20.153	ug/l	89
21) 1,1-Dichloroethane	3.611	63	55688	19.567	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	35584	19.706	ug/l	99
23) tert-Butyl Alcohol	3.038	59	30442m	98.770	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	95637	19.816	ug/l	96
25) Chloroform	5.093	83	57550	19.923	ug/l	100
26) Cyclohexane	5.471	56	53012	20.069	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	42538	19.446	ug/l	97
30) 2-Butanone	4.568	43	113034	98.948	ug/l #	98
31) 2,2-Dichloropropane	4.471	77	39522	20.985	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	48525	19.000	ug/l	99
33) Carbon Tetrachloride	5.678	117	45003	19.523	ug/l	98
34) Benzene	6.038	78	125362	19.727	ug/l	99
35) Methacrylonitrile	4.922	41	25466	19.564	ug/l	97
36) 1,2-Dichloroethane	6.080	62	44835	19.408	ug/l	98
37) Trichloroethene	7.123	130	34984	19.088	ug/l	99
38) Methylcyclohexane	7.379	83	54791	20.143	ug/l	98
39) 1,2-Dichloropropane	7.428	63	32599	20.072	ug/l	97
40) Dibromomethane	7.580	93	21980	19.257	ug/l	97
41) Bromodichloromethane	7.818	83	42069	19.003	ug/l	98
42) Vinyl Acetate	3.721	43	397013	97.252	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	45264	19.337	ug/l	98
44) Isopropyl Acetate	6.336	43	67677	18.429	ug/l	100
45) 1,4-Dioxane	7.745	88	16287	406.519	ug/l #	43
46) Methyl methacrylate	7.696	41	35515	19.101	ug/l	97
47) n-amyl Acetate	10.842	43	57832	18.496	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	43366	19.171	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	48759	19.407	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	32334	19.516	ug/l	96
51) Ethyl methacrylate	9.116	69	47561	19.251	ug/l	97
52) 1,3-Dichloropropane	9.305	76	54991	19.817	ug/l	99
53) Dibromochloromethane	9.519	129	34747	19.242	ug/l	98
54) 1,2-Dibromoethane	9.610	107	35041	19.790	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	107678	90.154	ug/l	99
56) Bromoform	10.799	173	26966	19.449	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	224151	102.409	ug/l	100
59) 2-Hexanone	9.427	43	163858	101.722	ug/l	99
61) Tetrachloroethene	9.275	164	32188	20.247	ug/l	100
62) Toluene	8.720	91	139213	20.071	ug/l	97
64) Chlorobenzene	10.079	112	90227	20.197	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	33341	19.830	ug/l	98
66) Ethyl Benzene	10.195	91	156158	20.188	ug/l	99
67) m/p-Xylenes	10.299	106	125323	41.051	ug/l	100
68) o-Xylene	10.640	106	61662	20.549	ug/l	97
69) Styrene	10.653	104	102769	20.693	ug/l	98
70) Isopropylbenzene	10.963	105	159469	20.521	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	48677	20.803	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	44096m	20.803	ug/l	
73) Bromobenzene	11.195	156	42190	20.514	ug/l	98
74) n-propylbenzene	11.305	91	182564	20.692	ug/l	99
75) 2-Chlorotoluene	11.366	91	110055	20.855	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	134975	20.920	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	12305	19.403	ug/l	93
78) 4-Chlorotoluene	11.451	91	123497	20.868	ug/l	100
79) tert-butylbenzene	11.713	119	139506	21.083	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	133749	20.984	ug/l	99
81) sec-Butylbenzene	11.890	105	167500	20.921	ug/l	100
82) p-Isopropyltoluene	12.006	119	143597	20.794	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	78620	20.941	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	79013	21.108	ug/l	99
85) n-Butylbenzene	12.329	91	119677	21.317	ug/l	100
86) Hexachloroethane	12.536	117	22167	19.732	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	76290	21.094	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9379	19.307	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	44434	17.864	ug/l	98
90) Hexachlorobutadiene	13.725	225	21791	18.271	ug/l	98
91) Naphthalene	13.774	128	116271	15.919	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	38664	15.492	ug/l	100

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

