

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032824\
 Data File : VX040824.D
 Acq On : 28 Mar 2024 15:39
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/29/2024
 Supervised By : Mahesh Dadoda 03/29/2024

Quant Time: Mar 29 04:50:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 29 04:49:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	3827	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	28634	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	38725	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	19214	29.294	ug/l	-0.01
Spiked Amount 30.000	Range	91 - 110	Recovery	=	97.633%	
60) 4-Bromofluorobenzene	11.079	95	25295	29.901	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	99.667%	
63) Toluene-d8	8.647	98	45726	30.120	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.400%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	3072	4.585	ug/l	97
3) Chloromethane	1.300	50	3072	5.023	ug/l	92
4) Vinyl Chloride	1.373	62	3063	4.860	ug/l	97
5) Bromomethane	1.605	94	2091	5.252	ug/l	97
6) Chloroethane	1.684	64	1964	4.927	ug/l	97
7) Trichlorofluoromethane	1.892	101	5594	5.119	ug/l	99
8) Diethyl Ether	2.136	74	1622	4.761	ug/l	85
9) 1,1,2-Trichlorotrifluo...	2.331	101	3151	5.154	ug/l	96
10) 1,1-Dichloroethene	2.325	96	2876	5.020	ug/l	84
11) Methyl Iodide	2.453	142	4021	5.134	ug/l	97
12) Methyl Acetate	2.703	43	3741	4.548	ug/l	93
13) Acrolein	2.233	56	2154	23.904	ug/l	100
14) Acrylonitrile	3.062	53	8499	23.733	ug/l	98
15) Acetone	2.373	58	2325	22.895	ug/l #	63
16) Carbon Disulfide	2.514	76	8132	5.054	ug/l	98
17) Allyl chloride	2.666	41	5089	4.838	ug/l	86
18) Methylene Chloride	2.788	84	2930	4.753	ug/l	99
19) trans-1,2-Dichloroethene	3.087	96	3100	5.177	ug/l	96
20) Diisopropyl ether	3.757	45	9721	4.747	ug/l	90
21) 1,1-Dichloroethane	3.605	63	5883	5.088	ug/l	97
22) cis-1,2-Dichloroethene	4.483	96	3428	4.873	ug/l	96
23) tert-Butyl Alcohol	2.952	59	3775	22.725	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	9615	4.716	ug/l	97
25) Chloroform	5.086	83	6193	4.942	ug/l	88
26) Cyclohexane	5.458	56	4799	4.993	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	4194	5.249	ug/l	87
30) 2-Butanone	4.556	43	12727	25.175	ug/l #	93
31) 2,2-Dichloropropane	4.470	77	4772m	5.057	ug/l	
32) 1,1,1-Trichloroethane	5.379	97	5603	5.311	ug/l #	86
33) Carbon Tetrachloride	5.671	117	4613	5.066	ug/l	95
34) Benzene	6.031	78	12409	5.414	ug/l	98
35) Methacrylonitrile	4.909	41	2552	4.732	ug/l	76
36) 1,2-Dichloroethane	6.086	62	5333	5.355	ug/l #	77
37) Trichloroethene	7.122	130	2960	5.228	ug/l	100
38) Methylcyclohexane	7.378	83	5095	5.401	ug/l	99
39) 1,2-Dichloropropane	7.427	63	2906	5.337	ug/l	97
40) Dibromomethane	7.580	93	2407	5.331	ug/l	96
41) Bromodichloromethane	7.817	83	4697	5.124	ug/l	99
42) Vinyl Acetate	3.721	43	46051	24.645	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	4665	4.674	ug/l #	87
44) Isopropyl Acetate	6.336	43	7499	4.770	ug/l	95
45) 1,4-Dioxane	7.653	88	1324	89.943	ug/l #	91
46) Methyl methacrylate	7.689	41	3577	4.726	ug/l	85
47) n-amyl Acetate	10.841	43	6481	4.578	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	4406	4.846	ug/l	92
49) cis-1,3-Dichloropropene	8.366	75	4740	5.046	ug/l #	86
50) 1,1,2-Trichloroethane	9.153	97	2803	5.062	ug/l	95
51) Ethyl methacrylate	9.116	69	4537	4.692	ug/l	97
52) 1,3-Dichloropropane	9.305	76	4820	5.065	ug/l	96
53) Dibromochloromethane	9.518	129	3232	4.872	ug/l	97
54) 1,2-Dibromoethane	9.604	107	3334	5.440	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	11867	25.087	ug/l	97
56) Bromoform	10.799	173	2182	4.731	ug/l #	98
58) 4-Methyl-2-Pentanone	8.567	43	25305	23.137	ug/l	97
59) 2-Hexanone	9.427	43	19068	21.877	ug/l	94
61) Tetrachloroethene	9.274	164	2514	4.843	ug/l #	90
62) Toluene	8.714	91	12966	4.951	ug/l	98
64) Chlorobenzene	10.079	112	8579	5.067	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.158	131	2858	4.817	ug/l	93
66) Ethyl Benzene	10.189	91	15086	4.900	ug/l	100
67) m/p-Xylenes	10.299	106	11301	9.999	ug/l	99
68) o-Xylene	10.640	106	5103	4.793	ug/l	89
69) Styrene	10.652	104	8794	4.760	ug/l	96
70) Isopropylbenzene	10.957	105	14332	4.941	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	4898	4.863	ug/l	96
72) 1,2,3-Trichloropropane	11.238	75	3928	4.606	ug/l	92
73) Bromobenzene	11.195	156	3202	4.630	ug/l	98
74) n-propylbenzene	11.305	91	16660	4.601	ug/l	98
75) 2-Chlorotoluene	11.359	91	9878	4.614	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	11779	4.693	ug/l	94
77) t-1,4-Dichloro-2-butene	11.018	75	1407m	4.147	ug/l	
78) 4-Chlorotoluene	11.451	91	11832	4.650	ug/l	96
79) tert-butylbenzene	11.713	119	11170	4.625	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	11183	4.496	ug/l	99
81) sec-Butylbenzene	11.890	105	14603	4.715	ug/l	98
82) p-Isopropyltoluene	12.006	119	12083	4.608	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	6284	4.679	ug/l	96
84) 1,4-Dichlorobenzene	12.042	146	6608	4.775	ug/l	97
85) n-Butylbenzene	12.329	91	11665	4.473	ug/l	98
86) Hexachloroethane	12.536	117	2065	4.432	ug/l	86
87) 1,2-Dichlorobenzene	12.335	146	6012	4.628	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1031	3.977	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	4351	4.801	ug/l	96
90) Hexachlorobutadiene	13.725	225	1620	4.767	ug/l	95
91) Naphthalene	13.774	128	13071	4.313	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	3928	4.547	ug/l	94

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

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