

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070822\
 Data File : VX029967.D
 Acq On : 08 Jul 2022 12:33
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/11/2022
 Supervised By : Mahesh Dadoda 07/11/2022

Quant Time: Jul 08 13:25:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 08 13:22:30 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.909	128	31904	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	179332	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	161277	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	75513	37.217	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 124.067%#			
60) 4-Bromofluorobenzene	11.085	95	90231	35.976	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 119.933%#			
63) Toluene-d8	8.652	98	261377	38.257	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 127.533%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	114549	101.474	ug/l	98
3) Chloromethane	1.288	50	117437	131.968	ug/l	98
4) Vinyl Chloride	1.373	62	129629	114.590	ug/l	100
5) Bromomethane	1.605	94	51548	55.309	ug/l	96
6) Chloroethane	1.684	64	71902	82.533	ug/l	98
7) Trichlorofluoromethane	1.885	101	164302	66.424	ug/l	99
8) Diethyl Ether	2.135	74	70274	72.035	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.330	101	109215	75.080	ug/l	96
10) 1,1-Dichloroethene	2.318	96	113803	94.617	ug/l	93
11) Methyl Iodide	2.452	142	100289	62.082	ug/l	94
12) Methyl Acetate	2.708	43	183070	95.342	ug/l	98
13) Acrolein	2.239	56	99739	255.987	ug/l	99
14) Acrylonitrile	3.068	53	397850	455.117	ug/l	98
15) Acetone	2.385	58	109550	442.484	ug/l	85
16) Carbon Disulfide	2.513	76	297518	209.296	ug/l	100
17) Allyl chloride	2.666	41	199709	110.499	ug/l	94
18) Methylene Chloride	2.788	84	130891	84.698	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	121684	91.579	ug/l	94
20) Diisopropyl ether	3.763	45	392648	87.408	ug/l	92
21) 1,1-Dichloroethane	3.611	63	213702	80.488	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	144843	77.433	ug/l	98
23) tert-Butyl Alcohol	2.983	59	166824	353.351	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	361944	68.438	ug/l	98
25) Chloroform	5.098	83	213815	68.534	ug/l	96
26) Cyclohexane	5.470	56	199419	118.800	ug/l #	93
29) 1,1-Dichloropropene	5.696	75	160933	84.372	ug/l	98
30) 2-Butanone	4.562	43	544757	453.142	ug/l	99
31) 2,2-Dichloropropane	4.476	77	152064	64.912	ug/l	93
32) 1,1,1-Trichloroethane	5.391	97	172466	64.306	ug/l	99
33) Carbon Tetrachloride	5.684	117	145887	63.923	ug/l	95
34) Benzene	6.043	78	512646	84.382	ug/l	97
35) Methacrylonitrile	4.928	41	110819	91.527	ug/l	92
36) 1,2-Dichloroethane	6.092	62	154711	68.333	ug/l	96
37) Trichloroethene	7.128	130	135168	72.636	ug/l	99
38) Methylcyclohexane	7.384	83	209861	107.431	ug/l	96
39) 1,2-Dichloropropane	7.433	63	128182	80.265	ug/l	99
40) Dibromomethane	7.586	93	91075	74.352	ug/l	91
41) Bromodichloromethane	7.823	83	158085	68.009	ug/l	98
42) Vinyl Acetate	3.727	43	1757440	471.704	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	204361	90.840	ug/l	99
44) Isopropyl Acetate	6.342	43	310484	85.598	ug/l	99
45) 1,4-Dioxane	7.677	88	72556	1536.111	ug/l	96
46) Methyl methacrylate	7.695	41	150116	90.556	ug/l	98
47) n-amyl Acetate	10.847	43	272001	86.615	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	175659	71.950	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	198039	75.492	ug/l	96
50) 1,1,2-Trichloroethane	9.152	97	131558	68.299	ug/l	95
51) Ethyl methacrylate	9.122	69	210319	76.304	ug/l	95
52) 1,3-Dichloropropane	9.311	76	213638	70.894	ug/l	100
53) Dibromochloromethane	9.524	129	124345	63.098	ug/l	99
54) 1,2-Dibromoethane	9.610	107	136339	68.039	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	524628	362.532	ug/l	96
56) Bromoform	10.805	173	87002	57.273	ug/l	96
58) 4-Methyl-2-Pentanone	8.579	43	1059124	451.435	ug/l	97
59) 2-Hexanone	9.433	43	808137	445.064	ug/l	99
61) Tetrachloroethene	9.274	164	125315	70.439	ug/l	96
62) Toluene	8.720	91	551492	78.844	ug/l	96
64) Chlorobenzene	10.079	112	337170	68.326	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.164	131	115384	59.866	ug/l	95
66) Ethyl Benzene	10.195	91	594929	72.141	ug/l	100
67) m/p-Xylenes	10.305	106	460022	139.158	ug/l	99
68) o-Xylene	10.646	106	229465	68.301	ug/l	98
69) Styrene	10.658	104	384294	68.488	ug/l	97
70) Isopropylbenzene	10.963	105	578071	66.136	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	206433	69.560	ug/l	99
72) 1,2,3-Trichloropropane	11.243	75	187966m	71.181	ug/l	
73) Bromobenzene	11.201	156	137873	58.501	ug/l	90
74) n-propylbenzene	11.304	91	699704	71.795	ug/l	98
75) 2-Chlorotoluene	11.365	91	404088	66.931	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	482205	65.792	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	66996	83.790	ug/l	84
78) 4-Chlorotoluene	11.457	91	456046	66.784	ug/l	97
79) tert-butylbenzene	11.719	119	480285	64.592	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	512874	69.712	ug/l	99
81) sec-Butylbenzene	11.890	105	641634	72.798	ug/l	99
82) p-Isopropyltoluene	12.012	119	523362	68.409	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	266587	60.308	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	270557	60.200	ug/l	98
85) n-Butylbenzene	12.335	91	484507	78.471	ug/l	98
86) Hexachloroethane	12.542	117	86673	71.996	ug/l	86
87) 1,2-Dichlorobenzene	12.335	146	264866	59.496	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.944	75	48138	75.939	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	162499	58.439	ug/l	98
90) Hexachlorobutadiene	13.725	225	62088	52.666	ug/l	99
91) Naphthalene	13.780	128	669029	68.850	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	167842	60.214	ug/l	99

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

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