

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
 Data File : VX042940.D
 Acq On : 08 Aug 2024 09:20
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/08/2024
 Supervised By : Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 14:50:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 07 04:53:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	44989	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	256695	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	234386	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	113474	27.315	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.033%		
60) 4-Bromofluorobenzene	11.079	95	115604	30.232	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.767%		
63) Toluene-d8	8.647	98	320752	30.296	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.000%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	52523	19.853	ug/l	98
3) Chloromethane	1.300	50	44797	18.448	ug/l	98
4) Vinyl Chloride	1.374	62	46473	17.927	ug/l	97
5) Bromomethane	1.599	94	27813	17.604	ug/l	98
6) Chloroethane	1.666	64	25813	16.743	ug/l	93
7) Trichlorofluoromethane	1.874	101	79702	19.280	ug/l	97
8) Diethyl Ether	2.136	74	32054	19.729	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.319	101	55387	19.651	ug/l	99
10) 1,1-Dichloroethene	2.306	96	49495	18.384	ug/l	94
11) Methyl Iodide	2.447	142	49695	20.059	ug/l	97
12) Methyl Acetate	2.703	43	122961	20.893	ug/l	94
13) Acrolein	2.239	56	15003	88.164	ug/l	99
14) Acrylonitrile	3.068	53	162913	91.065	ug/l	99
15) Acetone	2.386	58	53052	91.468	ug/l	95
16) Carbon Disulfide	2.501	76	83547	14.913	ug/l	99
17) Allyl chloride	2.660	41	85781	19.690	ug/l	97
18) Methylene Chloride	2.782	84	58045	18.590	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	50661	18.479	ug/l	98
20) Diisopropyl ether	3.763	45	182950	19.225	ug/l	91
21) 1,1-Dichloroethane	3.605	63	102637	18.967	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	63737	18.526	ug/l	99
23) tert-Butyl Alcohol	2.989	59	60757	73.665	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	188116	19.305	ug/l	100
25) Chloroform	5.086	83	110907	18.941	ug/l	99
26) Cyclohexane	5.458	56	76600	17.943	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	64342	19.450	ug/l	99
30) 2-Butanone	4.562	43	236635	97.138	ug/l	98
31) 2,2-Dichloropropane	4.465	77	87257	22.574	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	95869	20.933	ug/l	99
33) Carbon Tetrachloride	5.672	117	77228	19.713	ug/l	98
34) Benzene	6.031	78	218995	20.678	ug/l	97
35) Methacrylonitrile	4.922	41	46392	20.157	ug/l	94
36) 1,2-Dichloroethane	6.086	62	81853	20.942	ug/l	98
37) Trichloroethene	7.123	130	54031	20.152	ug/l	90
38) Methylcyclohexane	7.379	83	78598	19.172	ug/l	99
39) 1,2-Dichloropropane	7.427	63	55191	20.442	ug/l	99
40) Dibromomethane	7.580	93	41049	20.137	ug/l	99
41) Bromodichloromethane	7.818	83	79491	19.665	ug/l	98
42) Vinyl Acetate	3.721	43	700799	98.361	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	77410	18.942	ug/l	100
44) Isopropyl Acetate	6.342	43	128432	19.527	ug/l	98
45) 1,4-Dioxane	7.659	88	20432	296.743	ug/l #	85
46) Methyl methacrylate	7.696	41	64247	19.657	ug/l	93
47) n-amyl Acetate	10.841	43	103564	18.407	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	76132	19.646	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	84740	20.192	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	58592	21.074	ug/l	98
51) Ethyl methacrylate	9.116	69	88943	19.551	ug/l	98
52) 1,3-Dichloropropane	9.305	76	92179	20.203	ug/l	100
53) Dibromochloromethane	9.518	129	62538	19.328	ug/l	99
54) 1,2-Dibromoethane	9.610	107	59965	20.738	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	222902	106.102	ug/l	99
56) Bromoform	10.799	173	43481	18.747	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	448757	101.670	ug/l	100
59) 2-Hexanone	9.433	43	343755	98.533	ug/l	100
61) Tetrachloroethene	9.269	164	50033	21.501	ug/l	99
62) Toluene	8.714	91	239867	20.894	ug/l	99
64) Chlorobenzene	10.079	112	151054	20.559	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.159	131	55270	20.722	ug/l	99
66) Ethyl Benzene	10.195	91	257918	20.214	ug/l	96
67) m/p-Xylenes	10.299	106	196053	40.640	ug/l	99
68) o-Xylene	10.640	106	97695	20.543	ug/l	97
69) Styrene	10.652	104	164557	20.095	ug/l	99
70) Isopropylbenzene	10.963	105	258149	20.625	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	90786	20.112	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	73946m	20.054	ug/l	
73) Bromobenzene	11.195	156	63670	20.020	ug/l	100
74) n-propylbenzene	11.305	91	291911	19.937	ug/l	100
75) 2-Chlorotoluene	11.360	91	183563	20.541	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	217911	20.541	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	24986	19.058	ug/l	97
78) 4-Chlorotoluene	11.451	91	206214	20.120	ug/l	100
79) tert-butylbenzene	11.713	119	220265	20.235	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	214937	20.537	ug/l	100
81) sec-Butylbenzene	11.890	105	273524	20.502	ug/l	99
82) p-Isopropyltoluene	12.006	119	223229	19.980	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	117153	20.014	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	116054	19.720	ug/l	98
85) n-Butylbenzene	12.335	91	185231	18.395	ug/l	99
86) Hexachloroethane	12.536	117	37578	18.636	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	117506	20.151	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	19460	19.082	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	71743	18.911	ug/l	98
90) Hexachlorobutadiene	13.725	225	32910	20.074	ug/l	95
91) Naphthalene	13.774	128	248421	19.452	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	75268	19.647	ug/l	99

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

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