

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071924\
 Data File : VX042402.D
 Acq On : 19 Jul 2024 14:42
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/19/2024
 Supervised By : Mahesh Dadoda 07/22/2024

Quant Time: Jul 19 16:09:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:30:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	32208	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	185110	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	174071	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	67481	29.250	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.500%		
60) 4-Bromofluorobenzene	11.079	95	81287	30.013	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.033%		
63) Toluene-d8	8.646	98	222287	29.396	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.000%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	42090	21.802	ug/l	99
3) Chloromethane	1.300	50	42098	20.854	ug/l	98
4) Vinyl Chloride	1.373	62	39676	19.784	ug/l	99
5) Bromomethane	1.599	94	18947	18.821	ug/l	100
6) Chloroethane	1.666	64	21826	25.253	ug/l	99
7) Trichlorofluoromethane	1.873	101	57210	22.800	ug/l	96
8) Diethyl Ether	2.135	74	19605	18.630	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.318	101	37113	18.992	ug/l	99
10) 1,1-Dichloroethene	2.312	96	33923	18.064	ug/l	96
11) Methyl Iodide	2.446	142	44629	21.019	ug/l	99
12) Methyl Acetate	2.702	43	70727	22.915	ug/l	98
13) Acrolein	2.239	56	30738	79.278	ug/l	99
14) Acrylonitrile	3.068	53	128163	110.574	ug/l	99
15) Acetone	2.385	58	31881	92.471	ug/l	98
16) Carbon Disulfide	2.501	76	74647	20.108	ug/l	100
17) Allyl chloride	2.660	41	67496	22.589	ug/l	98
18) Methylene Chloride	2.782	84	45797	21.354	ug/l	92
19) trans-1,2-Dichloroethene	3.086	96	40721	21.467	ug/l	100
20) Diisopropyl ether	3.763	45	136179	21.628	ug/l	99
21) 1,1-Dichloroethane	3.605	63	75191	21.036	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	50484	21.252	ug/l	97
23) tert-Butyl Alcohol	2.989	59	54403m	123.160	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	135178	21.566	ug/l	100
25) Chloroform	5.086	83	77986	21.111	ug/l	97
26) Cyclohexane	5.464	56	62979	21.275	ug/l #	100
29) 1,1-Dichloropropene	5.684	75	52019	21.550	ug/l	95
30) 2-Butanone	4.562	43	179332	111.277	ug/l	99
31) 2,2-Dichloropropane	4.470	77	59987	21.617	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	67462	21.638	ug/l	99
33) Carbon Tetrachloride	5.671	117	57036	20.947	ug/l	98
34) Benzene	6.031	78	170278	21.484	ug/l	98
35) Methacrylonitrile	4.921	41	35746	22.477	ug/l	96
36) 1,2-Dichloroethane	6.086	62	55571	21.618	ug/l	98
37) Trichloroethene	7.122	130	45345	21.274	ug/l	93
38) Methylcyclohexane	7.372	83	67617	21.784	ug/l	99
39) 1,2-Dichloropropane	7.427	63	41983	21.548	ug/l	98
40) Dibromomethane	7.580	93	30199	21.473	ug/l	99
41) Bromodichloromethane	7.817	83	55975	21.221	ug/l	99
42) Vinyl Acetate	3.720	43	571348	109.579	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	63798	22.306	ug/l	99
44) Isopropyl Acetate	6.342	43	98042	21.822	ug/l	99
45) 1,4-Dioxane	7.665	88	21027	417.743	ug/l	95
46) Methyl methacrylate	7.695	41	48028	21.935	ug/l	98
47) n-amyl Acetate	10.841	43	88416	22.147	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	55507	21.108	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	63468	21.474	ug/l	98
50) 1,1,2-Trichloroethane	9.152	97	44203	21.432	ug/l	98
51) Ethyl methacrylate	9.116	69	69324	21.494	ug/l	98
52) 1,3-Dichloropropane	9.305	76	73568	21.960	ug/l	99
53) Dibromochloromethane	9.518	129	49055	21.644	ug/l	100
54) 1,2-Dibromoethane	9.610	107	47290	22.047	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	160112	102.420	ug/l	100
56) Bromoform	10.798	173	39605	21.684	ug/l	98
58) 4-Methyl-2-Pentanone	8.573	43	341713	111.387	ug/l	99
59) 2-Hexanone	9.433	43	268681	111.818	ug/l	100
61) Tetrachloroethene	9.268	164	44309	20.983	ug/l	96
62) Toluene	8.713	91	188306	21.638	ug/l	100
64) Chlorobenzene	10.079	112	127729	21.749	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.158	131	44407	21.013	ug/l	100
66) Ethyl Benzene	10.189	91	206497	21.773	ug/l	98
67) m/p-Xylenes	10.299	106	166466	43.902	ug/l	99
68) o-Xylene	10.640	106	82231	21.791	ug/l	100
69) Styrene	10.652	104	138584	21.836	ug/l	99
70) Isopropylbenzene	10.963	105	215084	22.355	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	73077	22.072	ug/l	100
72) 1,2,3-Trichloropropane	11.237	75	58217m	22.146	ug/l	
73) Bromobenzene	11.195	156	59690	21.709	ug/l	99
74) n-propylbenzene	11.304	91	239826	22.564	ug/l	99
75) 2-Chlorotoluene	11.365	91	149509	22.367	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	179688	22.355	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	19930	20.671	ug/l	91
78) 4-Chlorotoluene	11.451	91	166881	22.412	ug/l	100
79) tert-butylbenzene	11.713	119	189986	22.141	ug/l	100
80) 1,2,4-Trimethylbenzene	11.749	105	179821	22.233	ug/l	99
81) sec-Butylbenzene	11.890	105	229572	22.642	ug/l	100
82) p-Isopropyltoluene	12.006	119	197782	22.511	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	109937	22.260	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	108745	22.168	ug/l	99
85) n-Butylbenzene	12.335	91	156377	22.662	ug/l	99
86) Hexachloroethane	12.536	117	30513	20.424	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	110800	22.196	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	15007	22.125	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	75138	22.234	ug/l	99
90) Hexachlorobutadiene	13.725	225	38074	22.702	ug/l	99
91) Naphthalene	13.774	128	223655	22.193	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	77102	22.150	ug/l	98

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

