

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061724\
 Data File : VX041909.D
 Acq On : 17 Jun 2024 16:23
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/18/2024
 Supervised By : Mahesh Dadoda 06/18/2024

Quant Time: Jun 18 02:08:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	28930	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	171089	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	162318	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	63811	32.041	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 106.800%		
60) 4-Bromofluorobenzene	11.079	95	75485	30.043	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 100.133%		
63) Toluene-d8	8.647	98	208421	30.012	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 100.033%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	35611	19.016	ug/l	100
3) Chloromethane	1.307	50	37314	17.825	ug/l	98
4) Vinyl Chloride	1.374	62	37899	18.513	ug/l	99
5) Bromomethane	1.593	94	17715	16.188	ug/l	93
6) Chloroethane	1.660	64	18229	20.842	ug/l	95
7) Trichlorofluoromethane	1.867	101	48661	18.874	ug/l	99
8) Diethyl Ether	2.136	74	20665	18.521	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.312	101	32969	18.810	ug/l	100
10) 1,1-Dichloroethene	2.306	96	31946	18.069	ug/l	96
11) Methyl Iodide	2.440	142	42756	18.580	ug/l	99
12) Methyl Acetate	2.709	43	45845	20.338	ug/l	98
13) Acrolein	2.239	56	44016	96.842	ug/l	99
14) Acrylonitrile	3.068	53	102606	95.904	ug/l	98
15) Acetone	2.392	58	28451	92.959	ug/l	99
16) Carbon Disulfide	2.501	76	69308	17.887	ug/l	99
17) Allyl chloride	2.654	41	51259	19.090	ug/l	98
18) Methylene Chloride	2.782	84	38363	18.917	ug/l	94
19) trans-1,2-Dichloroethene	3.081	96	32119	18.135	ug/l	99
20) Diisopropyl ether	3.763	45	101651	18.417	ug/l	97
21) 1,1-Dichloroethane	3.605	63	57308	18.178	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	38889	18.139	ug/l	99
23) tert-Butyl Alcohol	2.989	59	39537	99.397	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	98918	18.086	ug/l	99
25) Chloroform	5.086	83	59044	18.428	ug/l	97
26) Cyclohexane	5.458	56	49966	18.247	ug/l #	100
29) 1,1-Dichloropropene	5.684	75	38748	17.352	ug/l	100
30) 2-Butanone	4.562	43	138450	92.793	ug/l	100
31) 2,2-Dichloropropane	4.464	77	40922	16.725	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	49916	17.635	ug/l	99
33) Carbon Tetrachloride	5.672	117	43249	17.716	ug/l	99
34) Benzene	6.031	78	130624	17.560	ug/l	99
35) Methacrylonitrile	4.922	41	28551	19.051	ug/l	94
36) 1,2-Dichloroethane	6.080	62	42097	18.166	ug/l	100
37) Trichloroethene	7.123	130	35937	17.687	ug/l	99
38) Methylcyclohexane	7.372	83	51553	17.430	ug/l	99
39) 1,2-Dichloropropane	7.427	63	31132	17.570	ug/l	99
40) Dibromomethane	7.580	93	23163	17.671	ug/l	98
41) Bromodichloromethane	7.818	83	42442	18.074	ug/l	99
42) Vinyl Acetate	3.721	43	447897	89.684	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	49599	17.729	ug/l	99
44) Isopropyl Acetate	6.342	43	74858	17.865	ug/l	99
45) 1,4-Dioxane	7.665	88	15734	308.055	ug/l	94
46) Methyl methacrylate	7.696	41	37151	18.134	ug/l	99
47) n-amyl Acetate	10.841	43	67944	18.067	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	41599	17.205	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	46790	17.252	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	34225	17.957	ug/l	97
51) Ethyl methacrylate	9.116	69	52320	17.280	ug/l	99
52) 1,3-Dichloropropane	9.305	76	55722	17.883	ug/l	100
53) Dibromochloromethane	9.518	129	36341	17.423	ug/l	100
54) 1,2-Dibromoethane	9.610	107	36372	18.096	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	151180	107.273	ug/l	99
56) Bromoform	10.799	173	29385	17.277	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	269090	92.515	ug/l	100
59) 2-Hexanone	9.433	43	211874	94.377	ug/l	99
61) Tetrachloroethene	9.268	164	37088	18.158	ug/l	96
62) Toluene	8.714	91	145247	17.683	ug/l	99
64) Chlorobenzene	10.079	112	96997	17.342	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	34156	17.682	ug/l	99
66) Ethyl Benzene	10.195	91	156045	17.377	ug/l	100
67) m/p-Xylenes	10.299	106	128153	35.479	ug/l	98
68) o-Xylene	10.640	106	62109	17.247	ug/l	100
69) Styrene	10.652	104	105695	17.563	ug/l	99
70) Isopropylbenzene	10.963	105	160351	17.709	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	55760	17.794	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	45460m	17.910	ug/l	
73) Bromobenzene	11.195	156	46555	17.627	ug/l	99
74) n-propylbenzene	11.305	91	178644	17.960	ug/l	99
75) 2-Chlorotoluene	11.360	91	111812	17.702	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	134219	17.693	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	15127	16.110	ug/l	95
78) 4-Chlorotoluene	11.451	91	124134	17.692	ug/l	99
79) tert-butylbenzene	11.713	119	141028	17.514	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	137226	18.107	ug/l	98
81) sec-Butylbenzene	11.890	105	174371	18.566	ug/l	100
82) p-Isopropyltoluene	12.006	119	149425	18.156	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	82387	17.495	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	83635	17.842	ug/l	99
85) n-Butylbenzene	12.335	91	114066	17.923	ug/l	99
86) Hexachloroethane	12.536	117	23496	17.482	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	83759	17.587	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	11429	17.632	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	56230	17.442	ug/l	99
90) Hexachlorobutadiene	13.725	225	29029	18.273	ug/l	99
91) Naphthalene	13.774	128	172913	17.751	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	58786	17.607	ug/l	99

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

