

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031424\
 Data File : VX040638.D
 Acq On : 14 Mar 2024 16:05
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Mar 15 05:43:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 03/15/2024

Supervised By :Mahesh
 Dadoda
 03/15/2024

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

Internal Standards						
1) Bromochloromethane	4.891	128	16167	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	90827	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	75548	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	48367	29.955	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 99.833%			
60) 4-Bromofluorobenzene	11.079	95	43637	33.674	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 112.233%#			
63) Toluene-d8	8.647	98	113738	34.067	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 113.567%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	20113	18.343	ug/l	99
3) Chloromethane	1.294	50	19743	17.573	ug/l	95
4) Vinyl Chloride	1.374	62	20930	17.238	ug/l	96
5) Bromomethane	1.605	94	15456	20.842	ug/l	94
6) Chloroethane	1.685	64	14368	20.141	ug/l	97
7) Trichlorofluoromethane	1.886	101	38278	20.706	ug/l	97
8) Diethyl Ether	2.130	74	11848	18.876	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	20278	20.025	ug/l	94
10) 1,1-Dichloroethene	2.319	96	18805	19.506	ug/l	97
11) Methyl Iodide	2.447	142	22133	18.981	ug/l	92
12) Methyl Acetate	2.703	43	32403	20.404	ug/l	100
13) Acrolein	2.233	56	30092	100.511	ug/l	99
14) Acrylonitrile	3.056	53	58126	92.951	ug/l	98
15) Acetone	2.373	58	14486	81.041	ug/l #	63
16) Carbon Disulfide	2.514	76	48437	18.281	ug/l	96
17) Allyl chloride	2.660	41	33813	19.005	ug/l	90
18) Methylene Chloride	2.788	84	21530	19.560	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	20025	19.025	ug/l	96
20) Diisopropyl ether	3.757	45	68489	19.249	ug/l	90
21) 1,1-Dichloroethane	3.605	63	39563	19.323	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	24390	19.954	ug/l	98
23) tert-Butyl Alcohol	2.947	59	24517	82.979	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	69598	19.561	ug/l	95
25) Chloroform	5.086	83	44048	19.656	ug/l	92
26) Cyclohexane	5.464	56	31107	18.825	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	31389	19.966	ug/l	97
30) 2-Butanone	4.544	43	84811	88.404	ug/l	98
31) 2,2-Dichloropropane	4.471	77	32548	19.182	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	40394	20.391	ug/l	98
33) Carbon Tetrachloride	5.666	117	31912	19.146	ug/l	96
34) Benzene	6.031	78	82816	19.513	ug/l	95
35) Methacrylonitrile	4.904	41	18827	19.116	ug/l	91
36) 1,2-Dichloroethane	6.080	62	38686	19.715	ug/l	95
37) Trichloroethene	7.123	130	22267	19.524	ug/l	93
38) Methylcyclohexane	7.379	83	32300	19.080	ug/l	95
39) 1,2-Dichloropropane	7.427	63	21059	19.488	ug/l	98
40) Dibromomethane	7.574	93	16767	19.751	ug/l	93
41) Bromodichloromethane	7.818	83	34225	20.265	ug/l #	98
42) Vinyl Acetate	3.715	43	309648	93.745	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	34686	19.198	ug/l	99
44) Isopropyl Acetate	6.330	43	54331	18.838	ug/l	96
45) 1,4-Dioxane	7.653	88	9682	326.586	ug/l	97
46) Methyl methacrylate	7.690	41	27809	19.413	ug/l	97
47) n-amyl Acetate	10.841	43	42408	17.061	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	34645	19.409	ug/l	94
49) cis-1,3-Dichloropropene	8.360	75	35449	19.495	ug/l #	88
50) 1,1,2-Trichloroethane	9.147	97	22835	20.251	ug/l	97
51) Ethyl methacrylate	9.110	69	33854	19.070	ug/l	94
52) 1,3-Dichloropropane	9.305	76	38390	19.952	ug/l	99
53) Dibromochloromethane	9.519	129	24983	19.435	ug/l	99
54) 1,2-Dibromoethane	9.604	107	24459	19.603	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	99827	110.422	ug/l	99
56) Bromoform	10.799	173	16472	18.066	ug/l #	97
58) 4-Methyl-2-Pentanone	8.568	43	183460	109.055	ug/l	99
59) 2-Hexanone	9.427	43	141552	104.172	ug/l	97
61) Tetrachloroethene	9.269	164	21011	23.432	ug/l	93
62) Toluene	8.714	91	94441	22.697	ug/l	98
64) Chlorobenzene	10.073	112	51964	20.433	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	19320	19.918	ug/l	96
66) Ethyl Benzene	10.189	91	95138	19.831	ug/l	100
67) m/p-Xylenes	10.299	106	72912	41.156	ug/l	99
68) o-Xylene	10.640	106	34280	20.100	ug/l	96
69) Styrene	10.653	104	58956	20.575	ug/l	98
70) Isopropylbenzene	10.957	105	96936	21.035	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	35911	22.229	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	32685m	22.486	ug/l	
73) Bromobenzene	11.195	156	24939	22.860	ug/l	96
74) n-propylbenzene	11.305	91	130277	22.890	ug/l	100
75) 2-Chlorotoluene	11.360	91	77489	22.943	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	91897	22.651	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	9237	20.447	ug/l	88
78) 4-Chlorotoluene	11.451	91	92341	22.918	ug/l	96
79) tert-butylbenzene	11.713	119	86212	22.767	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	90447	22.627	ug/l	99
81) sec-Butylbenzene	11.890	105	113098	22.622	ug/l	99
82) p-Isopropyltoluene	12.006	119	90820	22.193	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	48823	23.000	ug/l	97
84) 1,4-Dichlorobenzene	12.036	146	48411	22.301	ug/l	100
85) n-Butylbenzene	12.329	91	86576	21.742	ug/l	98
86) Hexachloroethane	12.536	117	15423	21.599	ug/l	88
87) 1,2-Dichlorobenzene	12.335	146	46146	22.371	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	9664	22.372	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	30234	21.768	ug/l	98
90) Hexachlorobutadiene	13.725	225	12107	21.558	ug/l	98
91) Naphthalene	13.774	128	97336	21.485	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	30012	21.915	ug/l	99

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

