

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071924\
 Data File : VX042391.D
 Acq On : 19 Jul 2024 09:46
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: Jul 19 10:47:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 10:46:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	30718	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	173832	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	157239	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	64834	30.660	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.200%			
60) 4-Bromofluorobenzene	11.079	95	71787	29.494	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.300%			
63) Toluene-d8	8.647	98	209739	31.178	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.933%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	33948	17.073	ug/l	98
3) Chloromethane	1.294	50	34576	15.555	ug/l	97
4) Vinyl Chloride	1.374	62	35089	16.142	ug/l	98
5) Bromomethane	1.599	94	16974	14.608	ug/l	97
6) Chloroethane	1.666	64	15656	16.858	ug/l	100
7) Trichlorofluoromethane	1.867	101	46251	16.895	ug/l	97
8) Diethyl Ether	2.136	74	18963	16.006	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	33850	18.189	ug/l	97
10) 1,1-Dichloroethene	2.306	96	32609	17.370	ug/l	95
11) Methyl Iodide	2.447	142	34824	14.252	ug/l	98
12) Methyl Acetate	2.709	43	58974	24.640	ug/l	99
13) Acrolein	2.239	56	32700	67.758	ug/l	99
14) Acrylonitrile	3.068	53	104317	91.828	ug/l	99
15) Acetone	2.386	58	31495	96.915	ug/l	99
16) Carbon Disulfide	2.501	76	58730	14.275	ug/l	99
17) Allyl chloride	2.660	41	54773	19.211	ug/l	97
18) Methylene Chloride	2.788	84	38728	17.985	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	32931	17.511	ug/l	98
20) Diisopropyl ether	3.763	45	112974	19.278	ug/l	94
21) 1,1-Dichloroethane	3.605	63	63911	19.092	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	42282	18.573	ug/l	97
23) tert-Butyl Alcohol	2.995	59	41951	99.327	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	111255	19.158	ug/l	100
25) Chloroform	5.086	83	65552	19.269	ug/l	98
26) Cyclohexane	5.464	56	51017	17.547	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	42043	18.531	ug/l	97
30) 2-Butanone	4.562	43	143297	94.526	ug/l	100
31) 2,2-Dichloropropane	4.471	77	49115	19.757	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	55015	19.129	ug/l	99
33) Carbon Tetrachloride	5.672	117	47283	19.063	ug/l	98
34) Benzene	6.037	78	142863	18.902	ug/l	99
35) Methacrylonitrile	4.928	41	28491	18.711	ug/l	97
36) 1,2-Dichloroethane	6.086	62	46747	19.854	ug/l	98
37) Trichloroethene	7.123	130	37189	18.014	ug/l	93
38) Methylcyclohexane	7.379	83	53266	17.725	ug/l	99
39) 1,2-Dichloropropane	7.427	63	34248	19.023	ug/l	95
40) Dibromomethane	7.580	93	24971	18.750	ug/l	99
41) Bromodichloromethane	7.824	83	45540	19.087	ug/l	99
42) Vinyl Acetate	3.721	43	462754	91.197	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	51964	18.282	ug/l	98
44) Isopropyl Acetate	6.342	43	79276	18.621	ug/l	99
45) 1,4-Dioxane	7.665	88	18678	359.925	ug/l	95
46) Methyl methacrylate	7.696	41	38783	18.632	ug/l	99
47) n-amyl Acetate	10.841	43	65409	17.119	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	44010	17.915	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	50851	18.454	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	37147	19.182	ug/l	97
51) Ethyl methacrylate	9.116	69	54790	17.810	ug/l	100
52) 1,3-Dichloropropane	9.305	76	60514	19.115	ug/l	98
53) Dibromochloromethane	9.519	129	38278	18.062	ug/l	100
54) 1,2-Dibromoethane	9.610	107	38239	18.725	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	132720	92.689	ug/l	99
56) Bromoform	10.799	173	29265	16.935	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	272473	96.704	ug/l	99
59) 2-Hexanone	9.433	43	208708	95.970	ug/l	100
61) Tetrachloroethene	9.275	164	36952	18.676	ug/l	98
62) Toluene	8.714	91	153310	19.268	ug/l	99
64) Chlorobenzene	10.079	112	100324	18.516	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	35920	19.195	ug/l	99
66) Ethyl Benzene	10.195	91	161672	18.585	ug/l	100
67) m/p-Xylenes	10.299	106	129760	37.084	ug/l	100
68) o-Xylene	10.640	106	64316	18.436	ug/l	99
69) Styrene	10.659	104	106642	18.293	ug/l	99
70) Isopropylbenzene	10.963	105	164847	18.794	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	57496	18.940	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	45444m	18.482	ug/l	
73) Bromobenzene	11.195	156	46717	18.259	ug/l	99
74) n-propylbenzene	11.305	91	176896	18.359	ug/l	99
75) 2-Chlorotoluene	11.366	91	113862	18.609	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	136135	18.526	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	14709	16.171	ug/l	95
78) 4-Chlorotoluene	11.451	91	125257	18.428	ug/l	98
79) tert-butylbenzene	11.713	119	144683	18.549	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	135598	18.470	ug/l	98
81) sec-Butylbenzene	11.890	105	170451	18.735	ug/l	100
82) p-Isopropyltoluene	12.006	119	144662	18.145	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	81756	17.921	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	79916	17.599	ug/l	98
85) n-Butylbenzene	12.335	91	108677	17.628	ug/l	99
86) Hexachloroethane	12.536	117	23406	17.977	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	83405	18.078	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	11043	17.587	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	52763	16.895	ug/l	99
90) Hexachlorobutadiene	13.725	225	27107	17.614	ug/l	99
91) Naphthalene	13.774	128	163648	17.342	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	55626	17.198	ug/l	98

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

