

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030524\
 Data File : VX040582.D
 Acq On : 05 Mar 2024 12:07
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/05/2024
 Supervised By : Mahesh Dadoda 03/06/2024

Quant Time: Mar 05 13:16:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:11:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	15229	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	90762	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	88299	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	47677	19.970	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	66.567%#		
60) 4-Bromofluorobenzene	11.079	95	47304	24.289	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	80.967%		
63) Toluene-d8	8.653	98	108031	29.758	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.200%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	105660	41.067	ug/l	98
3) Chloromethane	1.294	50	107880	37.740	ug/l	97
4) Vinyl Chloride	1.373	62	118389	42.437	ug/l	97
5) Bromomethane	1.599	94	55463	41.604	ug/l	99
6) Chloroethane	1.672	64	62316	49.074	ug/l	97
7) Trichlorofluoromethane	1.879	101	176558	44.819	ug/l	95
8) Diethyl Ether	2.135	74	58697	39.822	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.324	101	99184	41.107	ug/l	95
10) 1,1-Dichloroethene	2.312	96	93852	40.595	ug/l	95
11) Methyl Iodide	2.453	142	119276	47.082	ug/l	97
12) Methyl Acetate	2.702	43	157927	42.415	ug/l	98
13) Acrolein	2.239	56	142991	257.388	ug/l	100
14) Acrylonitrile	3.068	53	302607	177.222	ug/l	98
15) Acetone	2.379	58	85448	158.651	ug/l	69
16) Carbon Disulfide	2.507	76	260374	41.774	ug/l	96
17) Allyl chloride	2.660	41	175795	38.561	ug/l	89
18) Methylene Chloride	2.788	84	107585	39.808	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	104051	42.415	ug/l	95
20) Diisopropyl ether	3.763	45	352178	39.577	ug/l	92
21) 1,1-Dichloroethane	3.611	63	201768	40.610	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	120484	42.017	ug/l	94
23) tert-Butyl Alcohol	2.971	59	147226	184.064	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	351521	41.484	ug/l	95
25) Chloroform	5.092	83	220649	45.251	ug/l	94
26) Cyclohexane	5.470	56	164549	38.176	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	159849	61.372	ug/l	97
30) 2-Butanone	4.556	43	471117	252.193	ug/l	99
31) 2,2-Dichloropropane	4.477	77	173194	59.808	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	200373	66.562	ug/l	98
33) Carbon Tetrachloride	5.678	117	171589	72.305	ug/l	95
34) Benzene	6.037	78	423959	54.870	ug/l	98
35) Methacrylonitrile	4.922	41	101066	56.227	ug/l	96
36) 1,2-Dichloroethane	6.086	62	197830	65.293	ug/l #	95
37) Trichloroethene	7.122	130	107406	58.508	ug/l	97
38) Methylcyclohexane	7.378	83	164116	51.501	ug/l	98
39) 1,2-Dichloropropane	7.427	63	101763	48.880	ug/l	99
40) Dibromomethane	7.580	93	78789	56.028	ug/l	95
41) Bromodichloromethane	7.823	83	160726	61.679	ug/l	96
42) Vinyl Acetate	3.721	43	1681332	272.210	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	175815	50.212	ug/l	99
44) Isopropyl Acetate	6.342	43	293572	54.235	ug/l	95
45) 1,4-Dioxane	7.659	88	54681	1047.792	ug/l	95
46) Methyl methacrylate	7.689	41	141661	54.492	ug/l	95
47) n-amyl Acetate	10.841	43	282764	59.815	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	179320	63.937	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	178339	58.062	ug/l	91
50) 1,1,2-Trichloroethane	9.153	97	107244	55.634	ug/l	98
51) Ethyl methacrylate	9.116	69	176480	54.806	ug/l	95
52) 1,3-Dichloropropane	9.305	76	183928	55.293	ug/l	100
53) Dibromochloromethane	9.524	129	130573	72.786	ug/l	98
54) 1,2-Dibromoethane	9.610	107	128203	63.460	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	432581	276.079	ug/l	99
56) Bromoform	10.799	173	101001	83.588	ug/l #	98
58) 4-Methyl-2-Pentanone	8.573	43	913841	314.637	ug/l	99
59) 2-Hexanone	9.433	43	797701	339.293	ug/l	97
61) Tetrachloroethene	9.274	164	92078	78.723	ug/l	98
62) Toluene	8.720	91	438655	67.011	ug/l	100
64) Chlorobenzene	10.079	112	297525	78.174	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	113750	84.068	ug/l	98
66) Ethyl Benzene	10.195	91	563468	78.391	ug/l	100
67) m/p-Xylenes	10.299	106	422052	160.749	ug/l	96
68) o-Xylene	10.640	106	205715	78.045	ug/l	96
69) Styrene	10.652	104	352586	83.672	ug/l	98
70) Isopropylbenzene	10.963	105	564458	81.134	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	198828	74.407	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	194322m	86.943	ug/l	
73) Bromobenzene	11.195	156	131422	85.561	ug/l	96
74) n-propylbenzene	11.305	91	696571	83.975	ug/l	100
75) 2-Chlorotoluene	11.366	91	409067	79.380	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	494609	83.220	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	59453	81.057	ug/l	83
78) 4-Chlorotoluene	11.457	91	493889	86.410	ug/l	98
79) tert-butylbenzene	11.713	119	462385	82.106	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	486098	82.412	ug/l	97
81) sec-Butylbenzene	11.890	105	599433	82.822	ug/l	99
82) p-Isopropyltoluene	12.012	119	499331	86.687	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	256930	89.495	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	259445	91.115	ug/l	99
85) n-Butylbenzene	12.335	91	446570	84.706	ug/l	98
86) Hexachloroethane	12.536	117	83734	84.969	ug/l	90
87) 1,2-Dichlorobenzene	12.335	146	228524	79.430	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	47902	74.865	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	153524	94.646	ug/l	98
90) Hexachlorobutadiene	13.725	225	62452	87.949	ug/l	97
91) Naphthalene	13.774	128	501625	79.265	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	147110	87.593	ug/l	100

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

