

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030524\
 Data File : VX040580.D
 Acq On : 05 Mar 2024 11:21
 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 03/05/2024
 Supervised By : Mahesh Dadoda 03/06/2024

Quant Time: Mar 05 13:11:33 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	4.897	128	17095	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	89801	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	78444	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	47951	17.892	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	59.633%#	
60) 4-Bromofluorobenzene	11.079	95	39721	22.958	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	76.533%	
63) Toluene-d8	8.647	98	115902	35.937	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	119.800%#	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	20625	7.141	ug/l	97
3) Chloromethane	1.294	50	21734	6.773	ug/l	93
4) Vinyl Chloride	1.374	62	23061	7.364	ug/l	98
5) Bromomethane	1.605	94	16701	11.160	ug/l	93
6) Chloroethane	1.691	64	12495	8.766	ug/l	96
7) Trichlorofluoromethane	1.886	101	33045	7.473	ug/l	94
8) Diethyl Ether	2.136	74	11288	6.822	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	19086	7.047	ug/l	96
10) 1,1-Dichloroethene	2.318	96	17895	6.895	ug/l	89
11) Methyl Iodide	2.453	142	21174	7.446	ug/l	92
12) Methyl Acetate	2.703	43	29836	7.138	ug/l	97
13) Acrolein	2.233	56	27501	44.099	ug/l	100
14) Acrylonitrile	3.062	53	59330	30.954	ug/l	97
15) Acetone	2.379	58	18143	30.009	ug/l	71
16) Carbon Disulfide	2.514	76	48351	6.911	ug/l	97
17) Allyl chloride	2.660	41	33327	6.512	ug/l	87
18) Methylene Chloride	2.788	84	20663	6.811	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	19885	7.221	ug/l	98
20) Diisopropyl ether	3.757	45	66601	6.668	ug/l	87
21) 1,1-Dichloroethane	3.611	63	38730	6.944	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	23317	7.244	ug/l	99
23) tert-Butyl Alcohol	2.959	59	26812	29.862	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	66308	6.971	ug/l	94
25) Chloroform	5.098	83	41896	7.654	ug/l	94
26) Cyclohexane	5.464	56	30037	6.208	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	28626	11.108	ug/l	100
30) 2-Butanone	4.556	43	92582	50.090	ug/l	99
31) 2,2-Dichloropropane	4.483	77	32015	11.174	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	36571	12.279	ug/l	97
33) Carbon Tetrachloride	5.678	117	30316	12.911	ug/l	98
34) Benzene	6.037	78	79811	10.440	ug/l	98
35) Methacrylonitrile	4.922	41	18910	10.633	ug/l	96
36) 1,2-Dichloroethane	6.086	62	37525	12.518	ug/l	96
37) Trichloroethene	7.129	130	21161	11.651	ug/l	94
38) Methylcyclohexane	7.379	83	31865	10.106	ug/l	96
39) 1,2-Dichloropropane	7.427	63	20801	10.098	ug/l	98
40) Dibromomethane	7.580	93	16710	12.010	ug/l	96
41) Bromodichloromethane	7.817	83	32119	12.458	ug/l #	99
42) Vinyl Acetate	3.721	43	308093	50.415	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	35456	10.234	ug/l	96
44) Isopropyl Acetate	6.342	43	53751	10.036	ug/l	96
45) 1,4-Dioxane	7.659	88	11672	226.051	ug/l	94
46) Methyl methacrylate	7.689	41	27770	10.796	ug/l	91
47) n-amyl Acetate	10.841	43	42029	8.986	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	32099	11.568	ug/l	93
49) cis-1,3-Dichloropropene	8.366	75	33615	11.061	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	21546	11.297	ug/l	99
51) Ethyl methacrylate	9.116	69	33689	10.574	ug/l	98
52) 1,3-Dichloropropane	9.305	76	37195	11.301	ug/l	100
53) Dibromochloromethane	9.518	129	24002	13.523	ug/l	98
54) 1,2-Dibromoethane	9.610	107	23635	11.824	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	89420	57.680	ug/l	100
56) Bromoform	10.799	173	15937	13.331	ug/l #	95
58) 4-Methyl-2-Pentanone	8.573	43	184814	71.626	ug/l	98
59) 2-Hexanone	9.427	43	145518	69.670	ug/l	96
61) Tetrachloroethene	9.275	164	19325	18.598	ug/l	97
62) Toluene	8.720	91	90225	15.515	ug/l	97
64) Chlorobenzene	10.079	112	49389	14.607	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.159	131	18542	15.425	ug/l	98
66) Ethyl Benzene	10.195	91	92107	14.424	ug/l	99
67) m/p-Xylenes	10.299	106	68138	29.212	ug/l	94
68) o-Xylene	10.640	106	33388	14.258	ug/l	95
69) Styrene	10.652	104	56329	15.047	ug/l	98
70) Isopropylbenzene	10.963	105	89061	14.410	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	31944	13.456	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	26994m	13.595	ug/l	
73) Bromobenzene	11.195	156	21159	15.506	ug/l	94
74) n-propylbenzene	11.305	91	108275	14.693	ug/l	100
75) 2-Chlorotoluene	11.366	91	63924	13.963	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	76986	14.581	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	8684	13.327	ug/l	85
78) 4-Chlorotoluene	11.451	91	73298	14.435	ug/l	99
79) tert-butylbenzene	11.713	119	69367	13.865	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	73496	14.026	ug/l	100
81) sec-Butylbenzene	11.890	105	92116	14.326	ug/l	100
82) p-Isopropyltoluene	12.012	119	75289	14.713	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	40109	15.726	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	40877	16.159	ug/l	98
85) n-Butylbenzene	12.335	91	73152	15.619	ug/l	98
86) Hexachloroethane	12.536	117	12580	14.369	ug/l	85
87) 1,2-Dichlorobenzene	12.335	146	39473	15.444	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8204	14.433	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	26279	18.236	ug/l	99
90) Hexachlorobutadiene	13.725	225	10565	16.747	ug/l	99
91) Naphthalene	13.774	128	84827	15.088	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	25929	17.378	ug/l	99

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

