

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010723\
 Data File : VX033648.D
 Acq On : 06 Jan 2023 23:04
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/09/2023
 Supervised By : Mahesh Dadoda 01/09/2023

Quant Time: Jan 07 05:50:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 05:49:19 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	15124	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	106999	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	118897	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	39647	30.001	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 100.000%		
60) 4-Bromofluorobenzene	11.079	95	64332	29.387	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 97.967%		
63) Toluene-d8	8.647	98	115003	29.315	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 97.733%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	33186	27.526	ug/l	100
3) Chloromethane	1.294	50	36258	28.961	ug/l	100
4) Vinyl Chloride	1.374	62	29833	21.818	ug/l	100
5) Bromomethane	1.618	94	17374	18.154	ug/l	100
6) Chloroethane	1.691	64	17768	18.570	ug/l	100
7) Trichlorofluoromethane	1.892	101	49706	18.702	ug/l	100
8) Diethyl Ether	2.136	74	14359	17.827	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	22819	17.391	ug/l	100
10) 1,1-Dichloroethene	2.325	96	21473	17.336	ug/l	100
11) Methyl Iodide	2.453	142	35923	23.473	ug/l	100
12) Methyl Acetate	2.709	43	48451	24.869	ug/l	100
13) Acrolein	2.239	56	22903	83.780	ug/l	100
14) Acrylonitrile	3.069	53	82717	118.150	ug/l	100
15) Acetone	2.404	58	16343	78.147	ug/l	100
16) Carbon Disulfide	2.514	76	60311	17.801	ug/l	100
17) Allyl chloride	2.666	41	49919	22.632	ug/l	100
18) Methylene Chloride	2.788	84	32133	21.000	ug/l	100
19) trans-1,2-Dichloroethene	3.093	96	31800	20.725	ug/l	100
20) Diisopropyl ether	3.764	45	112313	23.858	ug/l	100
21) 1,1-Dichloroethane	3.611	63	59572	21.914	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	37668	21.072	ug/l	100
23) tert-Butyl Alcohol	3.044	59	32895m	112.180	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	103059	21.464	ug/l	100
25) Chloroform	5.093	83	61853	20.464	ug/l	100
26) Cyclohexane	5.471	56	55503	23.010	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	45966	21.056	ug/l	100
30) 2-Butanone	4.568	43	120174	116.117	ug/l	100
31) 2,2-Dichloropropane	4.477	77	38148	17.345	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	52810	19.234	ug/l	100
33) Carbon Tetrachloride	5.678	117	47360	18.928	ug/l	100
34) Benzene	6.038	78	130277	20.834	ug/l	100
35) Methacrylonitrile	4.928	41	27353	24.774	ug/l	100
36) 1,2-Dichloroethane	6.086	62	49461	20.836	ug/l	100
37) Trichloroethene	7.129	130	37424	21.062	ug/l	100
38) Methylcyclohexane	7.379	83	55924	21.490	ug/l	100
39) 1,2-Dichloropropane	7.428	63	34109	21.667	ug/l	100
40) Dibromomethane	7.580	93	23881	20.175	ug/l	100
41) Bromodichloromethane	7.824	83	45992	19.290	ug/l	100
42) Vinyl Acetate	3.721	43	431915	118.216	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	51243	26.093	ug/l	100
44) Isopropyl Acetate	6.342	43	74813	23.317	ug/l	100
45) 1,4-Dioxane	7.732	88	17381m	469.393	ug/l	
46) Methyl methacrylate	7.690	41	39085	24.188	ug/l	100
47) n-amyl Acetate	10.842	43	64804	23.895	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	45049	18.852	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	50023	19.328	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	34180	20.812	ug/l	100
51) Ethyl methacrylate	9.116	69	50817	21.364	ug/l	100
52) 1,3-Dichloropropane	9.305	76	58345	21.575	ug/l	100
53) Dibromochloromethane	9.519	129	35725	18.579	ug/l	100
54) 1,2-Dibromoethane	9.610	107	36497	20.408	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	122616	108.065	ug/l	100
56) Bromoform	10.799	173	27619	19.609	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	242605	120.946	ug/l	100
59) 2-Hexanone	9.427	43	176588	117.401	ug/l	100
61) Tetrachloroethene	9.275	164	33214	20.806	ug/l	100
62) Toluene	8.720	91	149405	20.703	ug/l	100
64) Chlorobenzene	10.079	112	94663	20.675	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	35763	20.014	ug/l	100
66) Ethyl Benzene	10.195	91	166113	20.474	ug/l	100
67) m/p-Xylenes	10.299	106	132424	41.529	ug/l	100
68) o-Xylene	10.640	106	64730	20.840	ug/l	100
69) Styrene	10.653	104	106844	20.737	ug/l	100
70) Isopropylbenzene	10.963	105	168735	20.586	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	50981	20.907	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	46272m	21.385	ug/l	
73) Bromobenzene	11.195	156	43798	21.296	ug/l	100
74) n-propylbenzene	11.305	91	189898	20.250	ug/l	100
75) 2-Chlorotoluene	11.366	91	113583	20.175	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	139817	20.341	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	12348	17.701	ug/l	100
78) 4-Chlorotoluene	11.451	91	128017	19.966	ug/l	100
79) tert-butylbenzene	11.713	119	143163	20.883	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	138262	20.471	ug/l	100
81) sec-Butylbenzene	11.890	105	171579	20.808	ug/l	100
82) p-Isopropyltoluene	12.006	119	148059	20.998	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	79219	21.067	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	79140	20.892	ug/l	100
85) n-Butylbenzene	12.329	91	117122	19.967	ug/l	100
86) Hexachloroethane	12.536	117	22434	18.382	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	76202	20.679	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10210	19.581	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	52051	22.149	ug/l	100
90) Hexachlorobutadiene	13.725	225	24547	24.159	ug/l	100
91) Naphthalene	13.774	128	156802	21.037	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	51919	22.138	ug/l	100

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

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