

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052323\
 Data File : VX035804.D
 Acq On : 23 May 2023 09:42
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/25/2023
 Supervised By : Mahesh Dadoda 05/25/2023

Quant Time: May 23 11:18:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:17:24 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	35466	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	192606	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	174574	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	86440	26.016	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	86.733%#	
60) 4-Bromofluorobenzene	11.079	95	87075	25.598	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	85.333%	
63) Toluene-d8	8.647	98	230562	36.673	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	122.233%#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	23308	7.849	ug/l	97
3) Chloromethane	1.294	50	39425	10.170	ug/l	95
4) Vinyl Chloride	1.374	62	34561	9.057	ug/l	93
5) Bromomethane	1.618	94	25876	10.239	ug/l	96
6) Chloroethane	1.691	64	23021	9.233	ug/l	99
7) Trichlorofluoromethane	1.892	101	45211	7.508	ug/l	99
8) Diethyl Ether	2.136	74	24908	11.164	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	22661	7.392	ug/l	96
10) 1,1-Dichloroethene	2.319	96	29849	9.445	ug/l	92
11) Methyl Iodide	2.453	142	37382	9.275	ug/l	95
12) Methyl Acetate	2.709	43	98713	13.588	ug/l	98
13) Acrolein	2.245	56	36055	45.301	ug/l	98
14) Acrylonitrile	3.069	53	121185	61.616	ug/l	100
15) Acetone	2.404	58	37767	69.419	ug/l	99
16) Carbon Disulfide	2.514	76	59507	7.452	ug/l	98
17) Allyl chloride	2.666	41	63998	10.364	ug/l	99
18) Methylene Chloride	2.788	84	43171	11.459	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	36673	10.477	ug/l	98
20) Diisopropyl ether	3.757	45	146428	11.533	ug/l	98
21) 1,1-Dichloroethane	3.611	63	74349	10.973	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	45394	11.110	ug/l	98
23) tert-Butyl Alcohol	3.032	59	45310m	52.019	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	134642	11.305	ug/l	98
25) Chloroform	5.093	83	75430	10.900	ug/l	100
26) Cyclohexane	5.464	56	41480	7.182	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	45931	11.282	ug/l	99
30) 2-Butanone	4.574	43	179499	76.929	ug/l	100
31) 2,2-Dichloropropane	4.471	77	51010	12.245	ug/l #	81
32) 1,1,1-Trichloroethane	5.379	97	55011	11.517	ug/l	99
33) Carbon Tetrachloride	5.678	117	41181	10.494	ug/l	95
34) Benzene	6.037	78	163735	13.672	ug/l	98
35) Methacrylonitrile	4.916	41	37263	14.636	ug/l	95
36) 1,2-Dichloroethane	6.086	62	65138	13.785	ug/l	100
37) Trichloroethene	7.123	130	39890	13.055	ug/l	96
38) Methylcyclohexane	7.379	83	38727	8.945	ug/l	99
39) 1,2-Dichloropropane	7.427	63	44086	14.069	ug/l	98
40) Dibromomethane	7.580	93	30234	14.086	ug/l	100
41) Bromodichloromethane	7.818	83	53039	13.129	ug/l #	98
42) Vinyl Acetate	3.721	43	496066	66.749	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	64591	14.439	ug/l	99
44) Isopropyl Acetate	6.336	43	105588	13.956	ug/l	98
45) 1,4-Dioxane	7.745	88	22729m	303.208	ug/l	
46) Methyl methacrylate	7.690	41	50407	13.648	ug/l	97
47) n-amyl Acetate	10.842	43	87502	13.311	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	55978	12.676	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	64937	13.379	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	43598	14.449	ug/l	97
51) Ethyl methacrylate	9.116	69	64586	13.348	ug/l	96
52) 1,3-Dichloropropane	9.305	76	76731	14.447	ug/l	100
53) Dibromochloromethane	9.519	129	37420	12.651	ug/l	99
54) 1,2-Dibromoethane	9.610	107	45207	14.040	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	188579	73.656	ug/l	99
56) Bromoform	10.799	173	22618	11.124	ug/l	94
58) 4-Methyl-2-Pentanone	8.574	43	341611	88.325	ug/l	100
59) 2-Hexanone	9.427	43	261358	89.315	ug/l	99
61) Tetrachloroethene	9.275	164	31095	13.969	ug/l	96
62) Toluene	8.720	91	173867	15.889	ug/l	99
64) Chlorobenzene	10.079	112	110586	16.297	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	37488	15.559	ug/l	99
66) Ethyl Benzene	10.195	91	187483	15.404	ug/l	99
67) m/p-Xylenes	10.299	106	144409	31.026	ug/l	99
68) o-Xylene	10.640	106	74043	16.072	ug/l	97
69) Styrene	10.653	104	120825	15.871	ug/l	99
70) Isopropylbenzene	10.963	105	179674	15.135	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	69015	17.468	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	57042m	16.121	ug/l	
73) Bromobenzene	11.195	156	45547	15.902	ug/l	96
74) n-propylbenzene	11.305	91	212599	15.325	ug/l	100
75) 2-Chlorotoluene	11.366	91	133727	15.443	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	153590	15.323	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	15172	13.826	ug/l	94
78) 4-Chlorotoluene	11.451	91	152924	15.355	ug/l	99
79) tert-butylbenzene	11.713	119	144514	15.113	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	156316	15.620	ug/l	99
81) sec-Butylbenzene	11.890	105	174875	15.062	ug/l	100
82) p-Isopropyltoluene	12.006	119	147806	15.061	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	85169	15.724	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	85669	15.710	ug/l	100
85) n-Butylbenzene	12.329	91	122727	14.534	ug/l	99
86) Hexachloroethane	12.536	117	20685	12.897	ug/l	93
87) 1,2-Dichlorobenzene	12.335	146	87179	16.409	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	12211	14.271	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	48255	15.198	ug/l	100
90) Hexachlorobutadiene	13.725	225	14788	12.452	ug/l	94
91) Naphthalene	13.774	128	175674	15.753	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	48741	15.427	ug/l	97

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

