

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091622\
 Data File : VX031402.D
 Acq On : 16 Sep 2022 11:26
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2022
 Supervised By : Mahesh Dadoda 09/19/2022

Quant Time: Sep 16 12:36:43 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X091622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	14816	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	79331	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	85148	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	40070	33.167	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.567%#			
60) 4-Bromofluorobenzene	11.079	95	57957	36.118	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 120.400%#			
63) Toluene-d8	8.653	98	140037	30.330	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.100%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	75781	74.799	ug/l	96
3) Chloromethane	1.288	50	103917	98.360	ug/l	99
4) Vinyl Chloride	1.374	62	122882	102.645	ug/l	99
5) Bromomethane	1.612	94	167289	339.169	ug/l	98
6) Chloroethane	1.685	64	133550	208.310	ug/l	99
7) Trichlorofluoromethane	1.886	101	312925	206.207	ug/l	97
8) Diethyl Ether	2.136	74	104456	161.833	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.325	101	100706	98.557	ug/l	92
10) 1,1-Dichloroethene	2.319	96	96327	92.324	ug/l	95
11) Methyl Iodide	2.453	142	126948	108.227	ug/l	99
12) Methyl Acetate	2.709	43	153868	90.552	ug/l	95
13) Acrolein	2.240	56	101098	506.453	ug/l	100
14) Acrylonitrile	3.069	53	318555	435.587	ug/l	99
15) Acetone	2.392	58	82193	413.752	ug/l	94
16) Carbon Disulfide	2.508	76	255899	93.954	ug/l	99
17) Allyl chloride	2.666	41	162530	88.395	ug/l	88
18) Methylene Chloride	2.788	84	109974	90.472	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	116957	103.297	ug/l	94
20) Diisopropyl ether	3.764	45	409276	111.114	ug/l	91
21) 1,1-Dichloroethane	3.611	63	200732	101.229	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	132114	98.266	ug/l	96
23) tert-Butyl Alcohol	3.008	59	146840m	438.292	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	382017	113.495	ug/l	95
25) Chloroform	5.099	83	232845	117.821	ug/l	97
26) Cyclohexane	5.471	56	181847	98.978	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	165595	122.022	ug/l	99
30) 2-Butanone	4.568	43	457532	499.489	ug/l	100
31) 2,2-Dichloropropane	4.477	77	186737	143.969	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	207008	141.861	ug/l	97
33) Carbon Tetrachloride	5.678	117	185053	150.989	ug/l	98
34) Benzene	6.044	78	480449	110.167	ug/l	98
35) Methacrylonitrile	4.922	41	96705	104.301	ug/l	93
36) 1,2-Dichloroethane	6.086	62	184380	138.885	ug/l	99
37) Trichloroethene	7.129	130	129712	111.212	ug/l	99
38) Methylcyclohexane	7.385	83	192374	109.246	ug/l	97
39) 1,2-Dichloropropane	7.434	63	117217	105.586	ug/l	98
40) Dibromomethane	7.580	93	89282	118.646	ug/l	92
41) Bromodichloromethane	7.824	83	179242	133.343	ug/l	99
42) Vinyl Acetate	3.727	43	1776475	606.447	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	189164	109.632	ug/l	100
44) Isopropyl Acetate	6.342	43	308497	117.692	ug/l	95
45) 1,4-Dioxane	7.696	88	63088	2050.255	ug/l	94
46) Methyl methacrylate	7.696	41	138325	111.357	ug/l	90
47) n-amyl Acetate	10.848	43	299371	132.948	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	221876	149.360	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	211276	126.656	ug/l	92
50) 1,1,2-Trichloroethane	9.153	97	143910	129.086	ug/l	96
51) Ethyl methacrylate	9.116	69	221857	127.884	ug/l	95
52) 1,3-Dichloropropane	9.311	76	223502	124.632	ug/l	99
53) Dibromochloromethane	9.525	129	173700	168.335	ug/l	98
54) 1,2-Dibromoethane	9.610	107	169842	146.707	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	569907	637.280	ug/l	99
56) Bromoform	10.799	173	138641	191.933	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	1038780	493.897	ug/l	98
59) 2-Hexanone	9.433	43	795351	488.921	ug/l	98
61) Tetrachloroethene	9.275	164	134308	105.053	ug/l	96
62) Toluene	8.720	91	653858	115.439	ug/l	98
64) Chlorobenzene	10.080	112	397195	117.421	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	149761	126.964	ug/l	97
66) Ethyl Benzene	10.195	91	740137	122.963	ug/l	100
67) m/p-Xylenes	10.305	106	673544	288.366	ug/l	98
68) o-Xylene	10.647	106	314815	135.350	ug/l	98
69) Styrene	10.659	104	569850	148.049	ug/l	99
70) Isopropylbenzene	10.964	105	858635	146.620	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	249430	117.125	ug/l	100
72) 1,2,3-Trichloropropane	11.244	75	255450m	133.445	ug/l	
73) Bromobenzene	11.201	156	201043	143.164	ug/l	99
74) n-propylbenzene	11.305	91	995998	141.778	ug/l	100
75) 2-Chlorotoluene	11.366	91	587090	141.917	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	780404	158.721	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	87258	132.526	ug/l	82
78) 4-Chlorotoluene	11.457	91	715117	154.021	ug/l	95
79) tert-butylbenzene	11.720	119	713928	149.256	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	747678	147.914	ug/l	96
81) sec-Butylbenzene	11.890	105	923214	142.592	ug/l	99
82) p-Isopropyltoluene	12.012	119	807571	154.936	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	410674	151.154	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	431468	156.587	ug/l	100
85) n-Butylbenzene	12.335	91	660926	135.124	ug/l	100
86) Hexachloroethane	12.543	117	132811	153.364	ug/l	88
87) 1,2-Dichlorobenzene	12.335	146	405483	151.139	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	55611	114.506	ug/l	89
89) 1,2,4-Trichlorobenzene	13.591	180	205917	123.964	ug/l	96
90) Hexachlorobutadiene	13.725	225	70731	112.278	ug/l	97
91) Naphthalene	13.774	128	760499	114.862	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	208553	123.260	ug/l	100

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

