

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070822\
 Data File : VX029965.D
 Acq On : 08 Jul 2022 11:47
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

07/11/2022
 Supervised By :Mahesh
 Dadoda

Quant Time: Jul 08 13:22:53 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 08 13:22:30 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	32553	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	182589	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	162587	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	76210	36.812	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 122.700%#	
60) 4-Bromofluorobenzene	11.079	95	88228	34.894	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 116.300%#	
63) Toluene-d8	8.653	98	262187	38.066	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 126.900%#	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	9061	7.867	ug/l	99
3) Chloromethane	1.288	50	11254	12.394	ug/l	92
4) Vinyl Chloride	1.374	62	12937	11.208	ug/l	95
5) Bromomethane	1.611	94	6733	7.080	ug/l	90
6) Chloroethane	1.685	64	6190	6.964	ug/l	98
7) Trichlorofluoromethane	1.886	101	16262	6.443	ug/l	99
8) Diethyl Ether	2.136	74	7233	7.266	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	11442	7.709	ug/l	94
10) 1,1-Dichloroethene	2.313	96	10850	8.841	ug/l	95
11) Methyl Iodide	2.453	142	4249	2.578	ug/l	95
12) Methyl Acetate	2.709	43	18486	9.436	ug/l	95
13) Acrolein	2.239	56	11491	28.904	ug/l	94
14) Acrylonitrile	3.069	53	38222	42.852	ug/l	100
15) Acetone	2.392	58	10375	41.070	ug/l	84
16) Carbon Disulfide	2.514	76	28298	19.510	ug/l #	93
17) Allyl chloride	2.666	41	19364	10.500	ug/l	88
18) Methylene Chloride	2.788	84	13531	8.581	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	12624	9.311	ug/l	96
20) Diisopropyl ether	3.764	45	39210	8.555	ug/l	93
21) 1,1-Dichloroethane	3.611	63	21409	7.903	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	14932	7.823	ug/l	97
23) tert-Butyl Alcohol	2.983	59	23398m	48.571	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	35917	6.656	ug/l #	79
25) Chloroform	5.099	83	21387	6.718	ug/l	98
26) Cyclohexane	5.471	56	19864	11.598	ug/l #	96
29) 1,1-Dichloropropene	5.696	75	16263	8.374	ug/l	99
30) 2-Butanone	4.562	43	53651	43.832	ug/l	98
31) 2,2-Dichloropropane	4.483	77	15297	6.413	ug/l #	68
32) 1,1,1-Trichloroethane	5.391	97	17085	6.257	ug/l	99
33) Carbon Tetrachloride	5.678	117	13936	5.997	ug/l	88
34) Benzene	6.044	78	52352	8.463	ug/l	98
35) Methacrylonitrile	4.928	41	10367	8.410	ug/l	89
36) 1,2-Dichloroethane	6.092	62	15929	6.910	ug/l	100
37) Trichloroethene	7.129	130	14447	7.625	ug/l	100
38) Methylcyclohexane	7.385	83	20651	10.383	ug/l	98
39) 1,2-Dichloropropane	7.434	63	13418	8.252	ug/l	94
40) Dibromomethane	7.586	93	8766	7.029	ug/l	91
41) Bromodichloromethane	7.824	83	15186	6.417	ug/l	98
42) Vinyl Acetate	3.727	43	161807	42.655	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.721	43	18777	8.198	ug/l	#	89
44) Isopropyl Acetate	6.342	43	29748	8.055	ug/l		99
45) 1,4-Dioxane	7.690	88	6951	144.537	ug/l		99
46) Methyl methacrylate	7.696	41	13668	8.098	ug/l		98
47) n-amyl Acetate	10.842	43	22761	7.119	ug/l		99
48) t-1,3-Dichloropropene	8.982	75	16533	6.651	ug/l		99
49) cis-1,3-Dichloropropene	8.366	75	18429	6.900	ug/l		95
50) 1,1,2-Trichloroethane	9.153	97	13412	6.839	ug/l		96
51) Ethyl methacrylate	9.116	69	18811	6.703	ug/l		95
52) 1,3-Dichloropropane	9.311	76	21456	6.993	ug/l		98
53) Dibromochloromethane	9.525	129	11391	5.677	ug/l		97
54) 1,2-Dibromoethane	9.610	107	13548	6.640	ug/l		95
55) 2-Chloroethyl vinyl ether	8.244	63	50162	34.045	ug/l		96
56) Bromoform	10.799	173	7069	4.570	ug/l		98
58) 4-Methyl-2-Pentanone	8.574	43	100548	42.512	ug/l		99
59) 2-Hexanone	9.433	43	76033	41.536	ug/l		97
61) Tetrachloroethene	9.275	164	13207	7.364	ug/l		91
62) Toluene	8.720	91	57037	8.089	ug/l		94
64) Chlorobenzene	10.079	112	32957	6.625	ug/l		99
65) 1,1,1,2-Tetrachloroethane	10.165	131	11296	5.814	ug/l		92
66) Ethyl Benzene	10.195	91	59014	7.098	ug/l		96
67) m/p-Xylenes	10.305	106	45886	13.769	ug/l		97
68) o-Xylene	10.640	106	21873	6.458	ug/l		98
69) Styrene	10.659	104	35770	6.323	ug/l		97
70) Isopropylbenzene	10.963	105	56348	6.395	ug/l		100
71) 1,1,2,2-Tetrachloroethane	11.213	83	20448	6.835	ug/l		97
72) 1,2,3-Trichloropropane	11.244	75	17843m	6.703	ug/l		
73) Bromobenzene	11.201	156	13709	5.770	ug/l		92
74) n-propylbenzene	11.305	91	65490	6.666	ug/l		98
75) 2-Chlorotoluene	11.366	91	40026	6.576	ug/l		100
76) 1,3,5-Trimethylbenzene	11.451	105	47547	6.435	ug/l		100
77) t-1,4-Dichloro-2-butene	11.018	75	4956	6.148	ug/l		94
78) 4-Chlorotoluene	11.457	91	42945	6.238	ug/l		92
79) tert-butylbenzene	11.713	119	44842	5.982	ug/l		99
80) 1,2,4-Trimethylbenzene	11.756	105	47253	6.371	ug/l		100
81) sec-Butylbenzene	11.890	105	59779	6.728	ug/l		98
82) p-Isopropyltoluene	12.012	119	46747	6.061	ug/l		98
83) 1,3-Dichlorobenzene	11.969	146	25524	5.728	ug/l		99
84) 1,4-Dichlorobenzene	12.043	146	25133	5.547	ug/l		98
85) n-Butylbenzene	12.335	91	42506	6.829	ug/l		93
86) Hexachloroethane	12.536	117	7188	5.923	ug/l		89
87) 1,2-Dichlorobenzene	12.335	146	26103	5.816	ug/l		99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	3972	6.215	ug/l		93
89) 1,2,4-Trichlorobenzene	13.591	180	15101	5.387	ug/l		95
90) Hexachlorobutadiene	13.725	225	6009	5.056	ug/l		96
91) Naphthalene	13.780	128	57445	5.864	ug/l		99
92) 1,2,3-Trichlorobenzene	13.963	180	15587	5.547	ug/l		99

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

