

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020222\
 Data File : VX026729.D
 Acq On : 02 Feb 2022 11:56
 Operator : JC/MD
 Sample : VX0202WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0202WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/03/2022
 Supervised By : Mahesh Dadoda 02/04/2022

Quant Time: Feb 03 03:02:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	17564	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	97926	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	84114	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	38640	27.359	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	91.200%
60) 4-Bromofluorobenzene	11.085	95	40601	28.923	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.400%
63) Toluene-d8	8.653	98	114657	29.672	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.172	85	20697	19.564	ug/l	99
3) Chloromethane	1.294	50	18094	19.577	ug/l	99
4) Vinyl Chloride	1.374	62	19212	18.803	ug/l	99
5) Bromomethane	1.617	94	9897	21.514	ug/l	92
6) Chloroethane	1.691	64	10413	17.960	ug/l	99
7) Trichlorofluoromethane	1.892	101	30124	18.603	ug/l	99
8) Diethyl Ether	2.136	74	10791	18.677	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	20382	20.166	ug/l	98
10) 1,1-Dichloroethene	2.325	96	19150	20.283	ug/l	94
11) Methyl Iodide	2.459	142	23519	22.937	ug/l	96
12) Methyl Acetate	2.703	43	38810	19.621	ug/l	100
13) Acrolein	2.239	56	19798	96.582	ug/l	98
14) Acrylonitrile	3.068	53	55320	100.270	ug/l	99
15) Acetone	2.392	58	18656	107.650	ug/l	84
16) Carbon Disulfide	2.520	76	47952	17.985	ug/l	100
17) Allyl chloride	2.666	41	33831	18.619	ug/l	98
18) Methylene Chloride	2.794	84	21201	20.387	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	19739	19.450	ug/l	99
20) Diisopropyl ether	3.763	45	68842	19.494	ug/l	98
21) 1,1-Dichloroethane	3.617	63	37443	19.258	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	23552	19.836	ug/l	94
23) tert-Butyl Alcohol	2.989	59	18085	90.373	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	64551	18.385	ug/l	98
25) Chloroform	5.099	83	38742	19.230	ug/l	99
26) Cyclohexane	5.476	56	34743	19.536	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	28872	19.089	ug/l	99
30) 2-Butanone	4.562	43	82045	93.408	ug/l	98
31) 2,2-Dichloropropane	4.483	77	27191	17.357	ug/l #	82
32) 1,1,1-Trichloroethane	5.385	97	33418	18.149	ug/l	98
33) Carbon Tetrachloride	5.684	117	30666	18.799	ug/l	99
34) Benzene	6.043	78	83805	19.983	ug/l	99
35) Methacrylonitrile	4.922	41	17475	18.988	ug/l	98
36) 1,2-Dichloroethane	6.086	62	30736	18.147	ug/l	98
37) Trichloroethene	7.129	130	24701	20.394	ug/l	96
38) Methylcyclohexane	7.379	83	36143	19.941	ug/l	98
39) 1,2-Dichloropropane	7.433	63	20969	19.553	ug/l	98
40) Dibromomethane	7.580	93	14972	19.874	ug/l	99
41) Bromodichloromethane	7.824	83	29437	18.933	ug/l	97
42) Vinyl Acetate	3.721	43	257552	94.642	ug/l	99

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43) Ethyl Acetate	4.714	43	30493	19.094	ug/l	98
44) Isopropyl Acetate	6.342	43	48188	18.282	ug/l	98
45) 1,4-Dioxane	7.690	88	8489	415.518	ug/l	98
46) Methyl methacrylate	7.696	41	23874	18.465	ug/l	94
47) n-amyl Acetate	10.847	43	35670	18.087	ug/l	95
48) t-1,3-Dichloropropene	8.982	75	27815	17.917	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	32606	18.994	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	21427	20.686	ug/l	96
51) Ethyl methacrylate	9.116	69	31676	19.180	ug/l	96
52) 1,3-Dichloropropane	9.311	76	36559	20.366	ug/l	97
53) Dibromochloromethane	9.525	129	21408	19.016	ug/l	97
54) 1,2-Dibromoethane	9.610	107	21680	19.736	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	82066	92.892	ug/l	100
56) Bromoform	10.799	173	13504	18.069	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	151687	96.681	ug/l	98
59) 2-Hexanone	9.433	43	114862	94.548	ug/l	98
61) Tetrachloroethene	9.275	164	27486	22.171	ug/l	98
62) Toluene	8.720	91	88756	19.765	ug/l	100
64) Chlorobenzene	10.079	112	54558	20.012	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	20617	19.860	ug/l	98
66) Ethyl Benzene	10.195	91	98120	19.528	ug/l	99
67) m/p-Xylenes	10.305	106	75525	40.458	ug/l	96
68) o-Xylene	10.640	106	36545	20.185	ug/l	100
69) Styrene	10.659	104	60266	20.026	ug/l	96
70) Isopropylbenzene	10.963	105	96236	19.811	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	24867	18.785	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	26233m	19.540	ug/l	
73) Bromobenzene	11.201	156	22154	19.924	ug/l	96
74) n-propylbenzene	11.305	91	110866	19.759	ug/l	100
75) 2-Chlorotoluene	11.366	91	65373	19.395	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	79593	19.616	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	7024	17.396	ug/l	96
78) 4-Chlorotoluene	11.457	91	74517	19.391	ug/l	98
79) tert-butylbenzene	11.719	119	73326	19.524	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	79542	19.846	ug/l	98
81) sec-Butylbenzene	11.890	105	97296	19.776	ug/l	99
82) p-Isopropyltoluene	12.012	119	82015	19.734	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	41199	19.909	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	41264	19.900	ug/l	100
85) n-Butylbenzene	12.335	91	68405	19.017	ug/l	100
86) Hexachloroethane	12.542	117	11667	18.594	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	39866	20.049	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	5796	17.160	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	24804	19.055	ug/l	98
90) Hexachlorobutadiene	13.725	225	11328	19.939	ug/l	99
91) Naphthalene	13.780	128	84196	18.711	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	24811	19.163	ug/l	99

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

