

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061424\
 Data File : VX041880.D
 Acq On : 14 Jun 2024 16:11
 Operator : JC/MD
 Sample : VX0614WBSD02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0614WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/17/2024
 Supervised By : Mahesh Dadoda 06/17/2024

Quant Time: Jun 15 04:12:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	28419	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	160115	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	152693	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	58367	29.835	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.433%		
60) 4-Bromofluorobenzene	11.079	95	70798	29.954	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.833%		
63) Toluene-d8	8.647	98	192919	29.531	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.433%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	37569	20.422	ug/l	99
3) Chloromethane	1.301	50	41847	20.349	ug/l	98
4) Vinyl Chloride	1.374	62	39853	19.817	ug/l	99
5) Bromomethane	1.593	94	19924	18.534	ug/l	98
6) Chloroethane	1.660	64	17998	20.947	ug/l	100
7) Trichlorofluoromethane	1.868	101	50103	19.783	ug/l	100
8) Diethyl Ether	2.136	74	22296	20.342	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.313	101	34690	20.148	ug/l	100
10) 1,1-Dichloroethene	2.307	96	33748	19.431	ug/l	96
11) Methyl Iodide	2.441	142	43292	19.151	ug/l	100
12) Methyl Acetate	2.709	43	45908	20.732	ug/l	98
13) Acrolein	2.239	56	48230	108.022	ug/l	98
14) Acrylonitrile	3.069	53	108826	103.546	ug/l	99
15) Acetone	2.392	58	29801	99.121	ug/l	99
16) Carbon Disulfide	2.502	76	73779	19.384	ug/l	100
17) Allyl chloride	2.654	41	53688	20.354	ug/l	97
18) Methylene Chloride	2.782	84	40008	20.083	ug/l	93
19) trans-1,2-Dichloroethene	3.087	96	33991	19.537	ug/l	98
20) Diisopropyl ether	3.764	45	109776	20.247	ug/l	93
21) 1,1-Dichloroethane	3.605	63	60736	19.611	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	41576	19.741	ug/l	98
23) tert-Butyl Alcohol	2.995	59	36500	93.412	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	110063	20.486	ug/l	97
25) Chloroform	5.093	83	62903	19.986	ug/l	98
26) Cyclohexane	5.458	56	53849	20.019	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	41243	19.736	ug/l	98
30) 2-Butanone	4.568	43	148722	106.509	ug/l	100
31) 2,2-Dichloropropane	4.471	77	45462	19.854	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	51724	19.526	ug/l	100
33) Carbon Tetrachloride	5.672	117	45019	19.705	ug/l	94
34) Benzene	6.038	78	140811	20.227	ug/l	99
35) Methacrylonitrile	4.928	41	29796	21.245	ug/l	96
36) 1,2-Dichloroethane	6.086	62	44931	20.718	ug/l	99
37) Trichloroethene	7.123	130	38609	20.304	ug/l	96
38) Methylcyclohexane	7.379	83	57065	20.616	ug/l	98
39) 1,2-Dichloropropane	7.428	63	33605	20.265	ug/l	100
40) Dibromomethane	7.580	93	25515	20.800	ug/l	99
41) Bromodichloromethane	7.818	83	43708	19.889	ug/l	96
42) Vinyl Acetate	3.721	43	498268	106.608	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	56888	21.729	ug/l	99
44) Isopropyl Acetate	6.342	43	81188	20.704	ug/l	99
45) 1,4-Dioxane	7.671	88	19929m	416.931	ug/l	
46) Methyl methacrylate	7.696	41	40910	21.337	ug/l	96
47) n-amyl Acetate	10.842	43	72797	20.685	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	45826	20.252	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	51056	20.115	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	37367	20.949	ug/l	99
51) Ethyl methacrylate	9.116	69	58883	20.781	ug/l	96
52) 1,3-Dichloropropane	9.311	76	61336	21.034	ug/l	98
53) Dibromochloromethane	9.519	129	39247	20.106	ug/l	99
54) 1,2-Dibromoethane	9.610	107	39913	21.219	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	148732	112.770	ug/l	99
56) Bromoform	10.799	173	31860	20.017	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	290488	106.167	ug/l	99
59) 2-Hexanone	9.433	43	223040	105.614	ug/l	99
61) Tetrachloroethene	9.275	164	38727	20.156	ug/l	97
62) Toluene	8.720	91	154142	19.949	ug/l	100
64) Chlorobenzene	10.080	112	105270	20.007	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	37170	20.455	ug/l	97
66) Ethyl Benzene	10.195	91	170121	20.138	ug/l	99
67) m/p-Xylenes	10.299	106	140144	41.244	ug/l	97
68) o-Xylene	10.640	106	69385	20.481	ug/l	97
69) Styrene	10.653	104	114505	20.227	ug/l	100
70) Isopropylbenzene	10.964	105	174434	20.479	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	61374	20.820	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	48926m	20.491	ug/l	
73) Bromobenzene	11.195	156	50431	20.298	ug/l	99
74) n-propylbenzene	11.305	91	190510	20.360	ug/l	100
75) 2-Chlorotoluene	11.366	91	123053	20.710	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	145729	20.422	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	16563	18.752	ug/l	96
78) 4-Chlorotoluene	11.457	91	134303	20.348	ug/l	99
79) tert-butylbenzene	11.713	119	153545	20.271	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	147461	20.684	ug/l	98
81) sec-Butylbenzene	11.890	105	179612	20.330	ug/l	100
82) p-Isopropyltoluene	12.006	119	155658	20.105	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	90062	20.330	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	89866	20.380	ug/l	99
85) n-Butylbenzene	12.335	91	117604	19.644	ug/l	99
86) Hexachloroethane	12.536	117	24092	19.055	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	90416	20.181	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	12098	19.841	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	58945	19.436	ug/l	99
90) Hexachlorobutadiene	13.725	225	29498	19.739	ug/l	98
91) Naphthalene	13.774	128	184701	20.156	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	61773	19.668	ug/l	98

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

