

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061724\
 Data File : VX041902.D
 Acq On : 17 Jun 2024 12:05
 Operator : JC/MD
 Sample : VX0617WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0617WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/18/2024
 Supervised By : Mahesh Dadoda 06/18/2024

Quant Time: Jun 18 02:05:32 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	4.904	128	29315	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	165486	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	156024	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	61291	30.372	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 101.233%	
60) 4-Bromofluorobenzene	11.079	95	74150	30.702	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 102.333%	
63) Toluene-d8	8.647	98	198364	29.716	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 99.067%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	37956	20.002	ug/l	97
3) Chloromethane	1.301	50	40502	19.093	ug/l	99
4) Vinyl Chloride	1.374	62	40135	19.347	ug/l	99
5) Bromomethane	1.593	94	19493	17.578	ug/l	98
6) Chloroethane	1.660	64	16501	18.618	ug/l	99
7) Trichlorofluoromethane	1.868	101	51456	19.696	ug/l	98
8) Diethyl Ether	2.136	74	22796	20.163	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.313	101	35520	20.000	ug/l	100
10) 1,1-Dichloroethene	2.307	96	34814	19.432	ug/l	94
11) Methyl Iodide	2.441	142	44811	19.218	ug/l	99
12) Methyl Acetate	2.709	43	48041	21.032	ug/l	98
13) Acrolein	2.239	56	45964	99.800	ug/l	99
14) Acrylonitrile	3.069	53	110802	102.204	ug/l	98
15) Acetone	2.392	58	33461	107.893	ug/l	95
16) Carbon Disulfide	2.496	76	75363	19.195	ug/l	100
17) Allyl chloride	2.654	41	55662	20.457	ug/l	96
18) Methylene Chloride	2.782	84	40243	19.583	ug/l	95
19) trans-1,2-Dichloroethene	3.081	96	35259	19.646	ug/l	98
20) Diisopropyl ether	3.764	45	112994	20.204	ug/l	95
21) 1,1-Dichloroethane	3.605	63	63075	19.744	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	42427	19.529	ug/l	98
23) tert-Butyl Alcohol	2.995	59	39566	98.164	ug/l	# 100
24) Methyl tert-Butyl Ether	3.117	73	112011	20.211	ug/l	100
25) Chloroform	5.087	83	65055	20.038	ug/l	99
26) Cyclohexane	5.458	56	55021	19.829	ug/l	# 99
29) 1,1-Dichloropropene	5.684	75	43061	19.937	ug/l	98
30) 2-Butanone	4.568	43	155477	107.733	ug/l	100
31) 2,2-Dichloropropane	4.471	77	47464	20.056	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	54092	19.757	ug/l	100
33) Carbon Tetrachloride	5.672	117	46468	19.679	ug/l	97
34) Benzene	6.031	78	143592	19.957	ug/l	98
35) Methacrylonitrile	4.928	41	31253	21.560	ug/l	98
36) 1,2-Dichloroethane	6.086	62	47209	21.062	ug/l	99
37) Trichloroethene	7.123	130	38518	19.599	ug/l	100
38) Methylcyclohexane	7.373	83	57682	20.162	ug/l	99
39) 1,2-Dichloropropane	7.428	63	34389	20.065	ug/l	94
40) Dibromomethane	7.580	93	26145	20.621	ug/l	100
41) Bromodichloromethane	7.824	83	46535	20.488	ug/l	99
42) Vinyl Acetate	3.721	43	509260	105.423	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	59799	22.099	ug/l	97
44) Isopropyl Acetate	6.342	43	83490	20.600	ug/l	100
45) 1,4-Dioxane	7.665	88	19516	395.039	ug/l	98
46) Methyl methacrylate	7.696	41	42012	21.201	ug/l	97
47) n-amyl Acetate	10.842	43	75517	20.761	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	46538	19.900	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	52975	20.194	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	38346	20.800	ug/l	96
51) Ethyl methacrylate	9.116	69	59839	20.433	ug/l	99
52) 1,3-Dichloropropane	9.311	76	61474	20.397	ug/l	100
53) Dibromochloromethane	9.519	129	41191	20.417	ug/l	100
54) 1,2-Dibromoethane	9.610	107	40688	20.929	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	127550	93.571	ug/l	99
56) Bromoform	10.799	173	32784	19.929	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	296395	106.014	ug/l	100
59) 2-Hexanone	9.433	43	231956	107.491	ug/l	99
61) Tetrachloroethene	9.269	164	38531	19.626	ug/l	96
62) Toluene	8.714	91	159990	20.264	ug/l	100
64) Chlorobenzene	10.080	112	107343	19.965	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	38008	20.469	ug/l	99
66) Ethyl Benzene	10.195	91	172083	19.936	ug/l	99
67) m/p-Xylenes	10.299	106	139911	40.297	ug/l	100
68) o-Xylene	10.640	106	69589	20.103	ug/l	99
69) Styrene	10.653	104	117333	20.284	ug/l	99
70) Isopropylbenzene	10.964	105	178382	20.495	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	62033	20.594	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	50004m	20.495	ug/l	
73) Bromobenzene	11.195	156	51499	20.285	ug/l	99
74) n-propylbenzene	11.305	91	197587	20.666	ug/l	99
75) 2-Chlorotoluene	11.366	91	123328	20.313	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	150731	20.671	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	17275	19.140	ug/l	94
78) 4-Chlorotoluene	11.451	91	136690	20.267	ug/l	99
79) tert-butylbenzene	11.713	119	157926	20.404	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	150788	20.699	ug/l	99
81) sec-Butylbenzene	11.890	105	187962	20.821	ug/l	100
82) p-Isopropyltoluene	12.006	119	162560	20.549	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	91694	20.256	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	91411	20.287	ug/l	99
85) n-Butylbenzene	12.335	91	124119	20.289	ug/l	99
86) Hexachloroethane	12.536	117	26845	20.779	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	91583	20.005	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	12601	20.225	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	60730	19.597	ug/l	100
90) Hexachlorobutadiene	13.725	225	31685	20.749	ug/l	99
91) Naphthalene	13.774	128	189054	20.191	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	64509	20.100	ug/l	100

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

