

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062024\
 Data File : VX041965.D
 Acq On : 20 Jun 2024 16:31
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/21/2024
 Supervised By : Mahesh Dadoda 06/21/2024

Quant Time: Jun 21 03:18:10 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	4.897	128	31278	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	181759	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	170635	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	67711	31.447	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.833%			
60) 4-Bromofluorobenzene	11.079	95	77276	29.257	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.533%			
63) Toluene-d8	8.647	98	218954	29.992	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.967%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	36612	18.083	ug/l	98
3) Chloromethane	1.307	50	38922	17.197	ug/l	100
4) Vinyl Chloride	1.374	62	38485	17.388	ug/l	99
5) Bromomethane	1.599	94	19336	16.343	ug/l	99
6) Chloroethane	1.666	64	20797	21.993	ug/l	98
7) Trichlorofluoromethane	1.874	101	55977	20.082	ug/l	98
8) Diethyl Ether	2.136	74	21929	18.178	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	34981	18.460	ug/l	98
10) 1,1-Dichloroethene	2.306	96	33984	17.778	ug/l	97
11) Methyl Iodide	2.447	142	41296	16.599	ug/l	98
12) Methyl Acetate	2.709	43	50780	20.836	ug/l	100
13) Acrolein	2.239	56	32702	66.549	ug/l	98
14) Acrylonitrile	3.068	53	107405	92.853	ug/l	98
15) Acetone	2.392	58	27700	83.711	ug/l	86
16) Carbon Disulfide	2.501	76	72934	17.410	ug/l	99
17) Allyl chloride	2.654	41	52093	17.944	ug/l	94
18) Methylene Chloride	2.782	84	38854	17.721	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	34247	17.885	ug/l	99
20) Diisopropyl ether	3.763	45	108928	18.254	ug/l	95
21) 1,1-Dichloroethane	3.605	63	61566	18.062	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	41568	17.933	ug/l	99
23) tert-Butyl Alcohol	2.983	59	38041	88.457	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	106858	18.072	ug/l	99
25) Chloroform	5.086	83	63605	18.362	ug/l	99
26) Cyclohexane	5.464	56	52304	17.667	ug/l #	98
29) 1,1-Dichloropropene	5.684	75	42787	18.036	ug/l	96
30) 2-Butanone	4.562	43	143549	90.562	ug/l	100
31) 2,2-Dichloropropane	4.465	77	43960	16.912	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	54069	17.980	ug/l	99
33) Carbon Tetrachloride	5.672	117	46821	18.053	ug/l	97
34) Benzene	6.031	78	141017	17.844	ug/l	98
35) Methacrylonitrile	4.922	41	29478	18.515	ug/l	98
36) 1,2-Dichloroethane	6.086	62	45319	18.408	ug/l	100
37) Trichloroethene	7.123	130	37863	17.541	ug/l	100
38) Methylcyclohexane	7.373	83	55330	17.609	ug/l	99
39) 1,2-Dichloropropane	7.427	63	33470	17.780	ug/l	96
40) Dibromomethane	7.580	93	25407	18.245	ug/l	99
41) Bromodichloromethane	7.818	83	44872	17.987	ug/l	98
42) Vinyl Acetate	3.721	43	475886	89.694	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	50525	17.000	ug/l	100
44) Isopropyl Acetate	6.342	43	80093	17.992	ug/l	99
45) 1,4-Dioxane	7.665	88	16770m	309.064	ug/l	
46) Methyl methacrylate	7.696	41	38803	17.828	ug/l	98
47) n-amyl Acetate	10.841	43	69505	17.398	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	43710	17.017	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	50706	17.599	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	36787	18.168	ug/l	97
51) Ethyl methacrylate	9.116	69	55576	17.278	ug/l	100
52) 1,3-Dichloropropane	9.305	76	59436	17.955	ug/l	99
53) Dibromochloromethane	9.519	129	39026	17.612	ug/l	99
54) 1,2-Dibromoethane	9.610	107	38744	18.145	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	156211	104.336	ug/l	100
56) Bromoform	10.799	173	31009	17.162	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	279381	91.372	ug/l	99
59) 2-Hexanone	9.433	43	216283	91.645	ug/l	99
61) Tetrachloroethene	9.275	164	40687	18.949	ug/l	94
62) Toluene	8.714	91	153196	17.742	ug/l	100
64) Chlorobenzene	10.079	112	103310	17.570	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.159	131	35990	17.723	ug/l	98
66) Ethyl Benzene	10.195	91	167184	17.710	ug/l	100
67) m/p-Xylenes	10.299	106	135006	35.554	ug/l	99
68) o-Xylene	10.640	106	65875	17.401	ug/l	99
69) Styrene	10.652	104	110864	17.524	ug/l	99
70) Isopropylbenzene	10.963	105	170781	17.941	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	57725	17.523	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	47377m	17.756	ug/l	
73) Bromobenzene	11.195	156	48072	17.314	ug/l	99
74) n-propylbenzene	11.305	91	188047	17.984	ug/l	99
75) 2-Chlorotoluene	11.360	91	117419	17.684	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	141269	17.715	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	14903	15.098	ug/l	96
78) 4-Chlorotoluene	11.451	91	130828	17.737	ug/l	100
79) tert-butylbenzene	11.713	119	147519	17.427	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	141203	17.724	ug/l	99
81) sec-Butylbenzene	11.890	105	175726	17.799	ug/l	99
82) p-Isopropyltoluene	12.006	119	154671	17.877	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	85896	17.351	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	85854	17.423	ug/l	99
85) n-Butylbenzene	12.329	91	117455	17.556	ug/l	100
86) Hexachloroethane	12.536	117	24305	17.202	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	85616	17.100	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	11842	17.379	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	56585	16.696	ug/l	98
90) Hexachlorobutadiene	13.725	225	29116	17.434	ug/l	96
91) Naphthalene	13.774	128	173518	16.945	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	59487	16.948	ug/l	98

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

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