

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052824\
 Data File : VX041652.D
 Acq On : 28 May 2024 09:13
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/29/2024
 Supervised By : Mahesh Dadoda 05/29/2024

Quant Time: May 29 05:36:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	27406	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	156904	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	145513	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	65435	30.319	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.067%			
60) 4-Bromofluorobenzene	11.079	95	69989	30.811	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.700%			
63) Toluene-d8	8.647	98	183886	29.480	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.267%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	29566	20.626	ug/l	95
3) Chloromethane	1.301	50	30121	19.189	ug/l	96
4) Vinyl Chloride	1.374	62	32362	19.582	ug/l	98
5) Bromomethane	1.599	94	20633	19.629	ug/l	97
6) Chloroethane	1.666	64	18674	22.349	ug/l	98
7) Trichlorofluoromethane	1.868	101	57287	22.837	ug/l	97
8) Diethyl Ether	2.136	74	21079	22.501	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.319	101	32779	22.533	ug/l	99
10) 1,1-Dichloroethene	2.313	96	29888	21.316	ug/l	94
11) Methyl Iodide	2.447	142	38248	22.902	ug/l	97
12) Methyl Acetate	2.703	43	51216	24.253	ug/l	95
13) Acrolein	2.239	56	23130	89.971	ug/l	98
14) Acrylonitrile	3.069	53	99372	107.029	ug/l	98
15) Acetone	2.386	58	37044	148.913	ug/l	99
16) Carbon Disulfide	2.502	76	64761	20.456	ug/l	99
17) Allyl chloride	2.660	41	53850	21.641	ug/l	98
18) Methylene Chloride	2.788	84	35137	21.069	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	31375	19.514	ug/l	97
20) Diisopropyl ether	3.757	45	109292	20.905	ug/l	97
21) 1,1-Dichloroethane	3.605	63	60526	20.628	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	39355	20.143	ug/l	98
23) tert-Butyl Alcohol	2.995	59	43960	111.572	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	107506	20.537	ug/l	97
25) Chloroform	5.086	83	63613	20.351	ug/l	99
26) Cyclohexane	5.464	56	47899	19.576	ug/l #	100
29) 1,1-Dichloropropene	5.684	75	41371	19.933	ug/l	100
30) 2-Butanone	4.562	43	150222	109.042	ug/l	99
31) 2,2-Dichloropropane	4.465	77	50081	20.559	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	56704	20.361	ug/l	99
33) Carbon Tetrachloride	5.672	117	50040	21.000	ug/l	99
34) Benzene	6.031	78	130105	19.848	ug/l	98
35) Methacrylonitrile	4.922	41	29027	20.887	ug/l	98
36) 1,2-Dichloroethane	6.080	62	49864	20.385	ug/l	99
37) Trichloroethene	7.123	130	35088	19.212	ug/l	98
38) Methylcyclohexane	7.379	83	51405	19.506	ug/l	99
39) 1,2-Dichloropropane	7.428	63	32613	21.047	ug/l	99
40) Dibromomethane	7.580	93	24768	20.310	ug/l	98
41) Bromodichloromethane	7.818	83	47351	20.682	ug/l	99
42) Vinyl Acetate	3.721	43	482978	101.045	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	52695	19.824	ug/l	99
44) Isopropyl Acetate	6.342	43	82459	20.521	ug/l	100
45) 1,4-Dioxane	7.665	88	17763	391.983	ug/l #	86
46) Methyl methacrylate	7.690	41	41967	20.992	ug/l	97
47) n-amyl Acetate	10.842	43	74323	20.397	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	45370	19.733	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	50730	20.371	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	34015	20.050	ug/l	96
51) Ethyl methacrylate	9.116	69	54342	19.901	ug/l	97
52) 1,3-Dichloropropane	9.305	76	57139	20.383	ug/l	100
53) Dibromochloromethane	9.519	129	40505	20.984	ug/l	99
54) 1,2-Dibromoethane	9.604	107	36442	20.257	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	143364	107.563	ug/l	99
56) Bromoform	10.799	173	32666	21.123	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	290396	109.223	ug/l	99
59) 2-Hexanone	9.433	43	229826	108.507	ug/l	100
61) Tetrachloroethene	9.269	164	34948	19.630	ug/l	92
62) Toluene	8.714	91	146566	20.242	ug/l	100
64) Chlorobenzene	10.079	112	98805	20.090	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	36279	20.841	ug/l	100
66) Ethyl Benzene	10.189	91	162052	20.156	ug/l	99
67) m/p-Xylenes	10.299	106	128053	40.730	ug/l	97
68) o-Xylene	10.640	106	63784	20.155	ug/l	99
69) Styrene	10.653	104	106609	20.091	ug/l	99
70) Isopropylbenzene	10.963	105	166861	20.866	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	59215	21.555	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	49092m	19.815	ug/l	
73) Bromobenzene	11.195	156	46469	19.776	ug/l	97
74) n-propylbenzene	11.305	91	186725	20.707	ug/l	99
75) 2-Chlorotoluene	11.366	91	115556	20.407	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	139966	20.506	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	16715	21.465	ug/l	89
78) 4-Chlorotoluene	11.451	91	131179	20.339	ug/l	99
79) tert-butylbenzene	11.713	119	151180	20.810	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	140701	20.566	ug/l	99
81) sec-Butylbenzene	11.890	105	175504	20.674	ug/l	99
82) p-Isopropyltoluene	12.006	119	152518	20.524	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	86331	20.486	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	85743	20.136	ug/l	99
85) n-Butylbenzene	12.329	91	119126	19.922	ug/l	100
86) Hexachloroethane	12.536	117	26736	21.370	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	87074	20.244	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	13409	22.226	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	58276	20.164	ug/l	99
90) Hexachlorobutadiene	13.725	225	29392	20.846	ug/l	99
91) Naphthalene	13.774	128	176645	20.450	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	59929	20.296	ug/l	98

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

