

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112822\
 Data File : VX033101.D
 Acq On : 28 Nov 2022 20:05
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/29/2022
 Supervised By : Mahesh Dadoda 11/29/2022

Quant Time: Nov 29 03:46:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 05:24:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	11023	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	75870	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	83521	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	31853	29.953	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.833%		
60) 4-Bromofluorobenzene	11.079	95	46105	28.858	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.200%		
63) Toluene-d8	8.647	98	83093	29.480	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.267%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	19208	19.689	ug/l	96
3) Chloromethane	1.294	50	20057	20.718	ug/l	96
4) Vinyl Chloride	1.374	62	22599	20.645	ug/l	99
5) Bromomethane	1.617	94	14309	14.724	ug/l	99
6) Chloroethane	1.691	64	16650	19.257	ug/l	94
7) Trichlorofluoromethane	1.892	101	46279	21.932	ug/l	99
8) Diethyl Ether	2.130	74	14949	21.911	ug/l	75
9) 1,1,2-Trichlorotrifluo...	2.331	101	23538	20.970	ug/l	96
10) 1,1-Dichloroethene	2.325	96	22312	20.807	ug/l	93
11) Methyl Iodide	2.453	142	22305	19.348	ug/l	97
12) Methyl Acetate	2.709	43	33153	20.871	ug/l #	88
13) Acrolein	2.239	56	22180	104.710	ug/l	99
14) Acrylonitrile	3.068	53	57799	101.502	ug/l	98
15) Acetone	2.398	58	15546	104.989	ug/l #	68
16) Carbon Disulfide	2.514	76	57098	21.390	ug/l	99
17) Allyl chloride	2.666	41	35529	20.852	ug/l	90
18) Methylene Chloride	2.788	84	25076	20.277	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	23880	20.216	ug/l #	77
20) Diisopropyl ether	3.757	45	78173	20.461	ug/l #	96
21) 1,1-Dichloroethane	3.611	63	45046	21.003	ug/l	94
22) cis-1,2-Dichloroethene	4.489	96	28456	20.632	ug/l	87
23) tert-Butyl Alcohol	3.014	59	20214m	109.329	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	79188	20.623	ug/l	93
25) Chloroform	5.092	83	49817	20.825	ug/l	97
26) Cyclohexane	5.470	56	38234	20.413	ug/l #	83
29) 1,1-Dichloropropene	5.690	75	34626	20.578	ug/l	96
30) 2-Butanone	4.568	43	81637	104.051	ug/l	92
31) 2,2-Dichloropropane	4.483	77	34518	23.986	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	46089	21.775	ug/l	94
33) Carbon Tetrachloride	5.678	117	39742	21.385	ug/l	94
34) Benzene	6.043	78	98560	20.789	ug/l	96
35) Methacrylonitrile	4.922	41	17939	20.188	ug/l	93
36) 1,2-Dichloroethane	6.092	62	41286	21.153	ug/l #	92
37) Trichloroethene	7.129	130	27323	20.600	ug/l	97
38) Methylcyclohexane	7.379	83	38307	20.319	ug/l	88
39) 1,2-Dichloropropane	7.427	63	24524	20.435	ug/l	94
40) Dibromomethane	7.580	93	19447	21.224	ug/l	97
41) Bromodichloromethane	7.824	83	38179	21.861	ug/l	99
42) Vinyl Acetate	3.721	43	313085	103.851	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.714	43	33160	21.010	ug/l	#	89
44) Isopropyl Acetate	6.342	43	53082	20.069	ug/l		95
45) 1,4-Dioxane	7.714	88	12176	479.273	ug/l	#	80
46) Methyl methacrylate	7.696	41	26906	20.207	ug/l		88
47) n-amyl Acetate	10.841	43	44331	18.854	ug/l		96
48) t-1,3-Dichloropropene	8.976	75	37929	21.170	ug/l		97
49) cis-1,3-Dichloropropene	8.366	75	41167	21.760	ug/l	#	89
50) 1,1,2-Trichloroethane	9.153	97	26215	20.809	ug/l		96
51) Ethyl methacrylate	9.116	69	37718	20.047	ug/l		79
52) 1,3-Dichloropropane	9.311	76	42793	20.777	ug/l		99
53) Dibromochloromethane	9.518	129	30004	21.900	ug/l		99
54) 1,2-Dibromoethane	9.610	107	28559	21.046	ug/l		99
55) 2-Chloroethyl vinyl ether	8.244	63	87292	96.006	ug/l		94
56) Bromoform	10.799	173	22091	22.521	ug/l		99
58) 4-Methyl-2-Pentanone	8.574	43	166685	101.949	ug/l	#	92
59) 2-Hexanone	9.433	43	125321	104.105	ug/l		90
61) Tetrachloroethene	9.275	164	23756	20.352	ug/l		95
62) Toluene	8.720	91	111094	20.453	ug/l		98
64) Chlorobenzene	10.079	112	67991	20.247	ug/l		97
65) 1,1,1,2-Tetrachloroethane	10.165	131	27484	21.485	ug/l		99
66) Ethyl Benzene	10.195	91	123674	20.296	ug/l		98
67) m/p-Xylenes	10.299	106	97498	41.122	ug/l		92
68) o-Xylene	10.640	106	46827	20.128	ug/l		89
69) Styrene	10.659	104	77466	20.029	ug/l		94
70) Isopropylbenzene	10.963	105	125105	20.138	ug/l		97
71) 1,1,2,2-Tetrachloroethane	11.213	83	39400	20.913	ug/l		98
72) 1,2,3-Trichloropropane	11.238	75	34717m	21.217	ug/l		
73) Bromobenzene	11.201	156	30700	20.342	ug/l		89
74) n-propylbenzene	11.305	91	142860	20.239	ug/l		94
75) 2-Chlorotoluene	11.366	91	86420	20.222	ug/l		93
76) 1,3,5-Trimethylbenzene	11.451	105	106324	20.245	ug/l		96
77) t-1,4-Dichloro-2-butene	11.018	75	10375	20.779	ug/l		88
78) 4-Chlorotoluene	11.457	91	100614	20.438	ug/l		92
79) tert-butylbenzene	11.713	119	103282	20.237	ug/l		94
80) 1,2,4-Trimethylbenzene	11.750	105	104450	20.341	ug/l		94
81) sec-Butylbenzene	11.890	105	124841	20.318	ug/l		95
82) p-Isopropyltoluene	12.012	119	105553	20.384	ug/l		96
83) 1,3-Dichlorobenzene	11.969	146	56896	20.549	ug/l		98
84) 1,4-Dichlorobenzene	12.042	146	57020	20.507	ug/l		99
85) n-Butylbenzene	12.335	91	88188	20.093	ug/l		94
86) Hexachloroethane	12.542	117	18708	22.007	ug/l		98
87) 1,2-Dichlorobenzene	12.335	146	56451	20.509	ug/l		97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9228	23.087	ug/l	#	76
89) 1,2,4-Trichlorobenzene	13.591	180	33450	19.788	ug/l		99
90) Hexachlorobutadiene	13.725	225	14440	21.223	ug/l		100
91) Naphthalene	13.774	128	115549	20.252	ug/l		99
92) 1,2,3-Trichlorobenzene	13.963	180	33785	19.871	ug/l		97

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

