

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111122\
 Data File : VX032760.D
 Acq On : 11 Nov 2022 09:17
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/14/2022
 Supervised By : Mahesh Dadoda 11/14/2022

Quant Time: Nov 14 04:54:16 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	4.904	128	11083	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	80801	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	10.055	117	87331	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	33199	31.050	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 103.500%		
60) 4-Bromofluorobenzene	11.079	95	50277	30.096	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 100.333%		
63) Toluene-d8	8.647	98	88638	30.075	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 100.267%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	21722	22.145	ug/l	96
3) Chloromethane	1.294	50	21404	21.990	ug/l	99
4) Vinyl Chloride	1.374	62	24133	21.927	ug/l	100
5) Bromomethane	1.611	94	20415	20.893	ug/l	94
6) Chloroethane	1.685	64	18489	21.268	ug/l	95
7) Trichlorofluoromethane	1.886	101	46837	22.076	ug/l	98
8) Diethyl Ether	2.130	74	14898	21.718	ug/l	75
9) 1,1,2-Trichlorotrifluo...	2.331	101	25419	22.523	ug/l	99
10) 1,1-Dichloroethene	2.319	96	23203	21.521	ug/l	83
11) Methyl Iodide	2.453	142	24664	21.278	ug/l	99
12) Methyl Acetate	2.703	43	34155	21.385	ug/l	# 88
13) Acrolein	2.239	56	25739	120.854	ug/l	98
14) Acrylonitrile	3.062	53	61790	107.924	ug/l	99
15) Acetone	2.386	58	19999	134.331	ug/l	78
16) Carbon Disulfide	2.514	76	56698	21.125	ug/l	99
17) Allyl chloride	2.666	41	37014	21.606	ug/l	87
18) Methylene Chloride	2.788	84	25164	20.238	ug/l	88
19) trans-1,2-Dichloroethene	3.087	96	25441	21.421	ug/l	# 83
20) Diisopropyl ether	3.757	45	79056	20.580	ug/l	91
21) 1,1-Dichloroethane	3.611	63	45864	21.268	ug/l	95
22) cis-1,2-Dichloroethene	4.483	96	29571	21.324	ug/l	87
23) tert-Butyl Alcohol	2.977	59	23289	125.278	ug/l	# 100
24) Methyl tert-Butyl Ether	3.111	73	80625	20.883	ug/l	92
25) Chloroform	5.093	83	50397	20.954	ug/l	96
26) Cyclohexane	5.464	56	40738	21.632	ug/l	# 83
29) 1,1-Dichloropropene	5.690	75	37191	20.754	ug/l	95
30) 2-Butanone	4.556	43	93827	112.290	ug/l	91
31) 2,2-Dichloropropane	4.477	77	38133	24.881	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	44949	19.940	ug/l	95
33) Carbon Tetrachloride	5.672	117	40326	20.375	ug/l	98
34) Benzene	6.037	78	102807	20.361	ug/l	# 94
35) Methacrylonitrile	4.916	41	18091	19.116	ug/l	92
36) 1,2-Dichloroethane	6.086	62	41842	20.130	ug/l	# 93
37) Trichloroethene	7.123	130	28306	20.039	ug/l	88
38) Methylcyclohexane	7.379	83	43186	21.509	ug/l	89
39) 1,2-Dichloropropane	7.427	63	25941	20.297	ug/l	97
40) Dibromomethane	7.580	93	19410	19.891	ug/l	98
41) Bromodichloromethane	7.818	83	37339	20.075	ug/l	97
42) Vinyl Acetate	3.721	43	324528	101.077	ug/l	# 91

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QLast Update : Fri Nov 11 05:24:06 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	35142	20.907	ug/l #	89
44) Isopropyl Acetate	6.336	43	56025	19.889	ug/l	95
45) 1,4-Dioxane	7.690	88	11674	431.471	ug/l #	87
46) Methyl methacrylate	7.690	41	28238	19.914	ug/l	88
47) n-amyl Acetate	10.841	43	51100	20.406	ug/l	95
48) t-1,3-Dichloropropene	8.976	75	38844	20.357	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	40984	20.341	ug/l #	90
50) 1,1,2-Trichloroethane	9.153	97	26972	20.103	ug/l	94
51) Ethyl methacrylate	9.116	69	39890	19.908	ug/l	81
52) 1,3-Dichloropropane	9.305	76	45146	20.582	ug/l	98
53) Dibromochloromethane	9.519	129	28893	19.802	ug/l	100
54) 1,2-Dibromoethane	9.610	107	29195	20.201	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	93596	96.658	ug/l	93
56) Bromoform	10.799	173	19982	19.128	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	180625	105.655	ug/l #	91
59) 2-Hexanone	9.427	43	141629	112.519	ug/l	90
61) Tetrachloroethene	9.275	164	24975	20.463	ug/l	94
62) Toluene	8.720	91	116837	20.572	ug/l	98
64) Chlorobenzene	10.079	112	72681	20.700	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	27300	20.410	ug/l	99
66) Ethyl Benzene	10.195	91	133551	20.961	ug/l	97
67) m/p-Xylenes	10.299	106	102968	41.535	ug/l	88
68) o-Xylene	10.640	106	50158	20.620	ug/l	91
69) Styrene	10.653	104	83743	20.707	ug/l	95
70) Isopropylbenzene	10.963	105	135598	20.875	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	41449	21.041	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	36878m	21.555	ug/l	
73) Bromobenzene	11.201	156	32413	20.540	ug/l	89
74) n-propylbenzene	11.305	91	156247	21.170	ug/l	94
75) 2-Chlorotoluene	11.366	91	94902	21.237	ug/l	90
76) 1,3,5-Trimethylbenzene	11.451	105	114770	20.900	ug/l	96
77) t-1,4-Dichloro-2-butene	11.018	75	11100	21.261	ug/l	90
78) 4-Chlorotoluene	11.457	91	109404	21.254	ug/l	92
79) tert-butylbenzene	11.713	119	111121	20.823	ug/l	93
80) 1,2,4-Trimethylbenzene	11.750	105	115043	21.427	ug/l	95
81) sec-Butylbenzene	11.890	105	139099	21.650	ug/l	95
82) p-Isopropyltoluene	12.012	119	116867	21.584	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	62173	21.475	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	62071	21.350	ug/l	99
85) n-Butylbenzene	12.335	91	100077	21.807	ug/l	94
86) Hexachloroethane	12.542	117	17972	20.219	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	59883	20.806	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8982	21.491	ug/l #	80
89) 1,2,4-Trichlorobenzene	13.591	180	38037	21.519	ug/l	99
90) Hexachlorobutadiene	13.725	225	15928	22.389	ug/l	100
91) Naphthalene	13.774	128	124590	20.884	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	37548	21.121	ug/l	97

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

