

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025079.D
 Acq On : 04 Nov 2021 19:18
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/08/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Quant Time: Nov 07 00:04:53 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X110421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 03 23:52:56 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	20648	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.763	114	107569	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	10.055	117	76155	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	55790	28.311	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	94.367%	
60) 4-Bromofluorobenzene	11.085	95	48259	34.731	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	115.767%#	
63) Toluene-d8	8.653	98	106074	30.158	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.533%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	32457	20.528	ug/l	99
3) Chloromethane	1.288	50	15934	19.182	ug/l	88
4) Vinyl Chloride	1.374	62	27482	28.849	ug/l	93
5) Bromomethane	1.612	94	24064	30.768	ug/l	94
6) Chloroethane	1.691	64	20136	37.489	ug/l	98
7) Trichlorofluoromethane	1.892	101	65138	28.332	ug/l	92
8) Diethyl Ether	2.136	74	18628	34.191	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.331	101	22497	18.758	ug/l	91
10) 1,1-Dichloroethene	2.325	96	19226	18.906	ug/l	94
11) Methyl Iodide	2.453	142	23661	20.812	ug/l	96
12) Methyl Acetate	2.709	43	59150	27.683	ug/l	92
13) Acrolein	2.240	56	11820	121.455	ug/l	98
14) Acrylonitrile	3.069	53	57823	96.080	ug/l	96
15) Acetone	2.386	58	17446	94.877	ug/l	# 62
16) Carbon Disulfide	2.514	76	50302	19.378	ug/l	99
17) Allyl chloride	2.666	41	49041	30.231	ug/l	92
18) Methylene Chloride	2.794	84	27023	22.702	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	22310	19.956	ug/l	85
20) Diisopropyl ether	3.764	45	71857	20.475	ug/l	# 86
21) 1,1-Dichloroethane	3.617	63	45620	19.589	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	26891	20.271	ug/l	93
23) tert-Butyl Alcohol	2.989	59	31504	86.081	ug/l	# 100
24) Methyl tert-Butyl Ether	3.117	73	88300	20.543	ug/l	91
25) Chloroform	5.105	83	53979	19.990	ug/l	98
26) Cyclohexane	5.477	56	37174	20.009	ug/l	# 95
29) 1,1-Dichloropropene	5.702	75	35664	20.618	ug/l	98
30) 2-Butanone	4.562	43	85383	97.870	ug/l	96
31) 2,2-Dichloropropane	4.483	77	44187	20.111	ug/l	# 77
32) 1,1,1-Trichloroethane	5.391	97	52974	21.290	ug/l	# 75
33) Carbon Tetrachloride	5.684	117	46648	21.363	ug/l	99
34) Benzene	6.044	78	93220	21.130	ug/l	99
35) Methacrylonitrile	4.922	41	17712m	20.587	ug/l	
36) 1,2-Dichloroethane	6.092	62	47475	22.209	ug/l	# 93
37) Trichloroethene	7.129	130	19561	15.864	ug/l	86
38) Methylcyclohexane	7.391	83	29772	16.028	ug/l	89
39) 1,2-Dichloropropane	7.434	63	21163	17.578	ug/l	96
40) Dibromomethane	7.586	93	15435	16.456	ug/l	88
41) Bromodichloromethane	7.824	83	32557	16.349	ug/l	# 89
42) Vinyl Acetate	3.727	43	260643	99.855	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025079.D
 Acq On : 04 Nov 2021 19:18
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/08/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Quant Time: Nov 07 00:04:53 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X110421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 03 23:52:56 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	32180	19.244	ug/l #	84
44) Isopropyl Acetate	6.349	43	79065	30.229	ug/l	95
45) 1,4-Dioxane	7.684	88	9188	330.802	ug/l	92
46) Methyl methacrylate	7.696	41	27471	21.483	ug/l	92
47) n-amyl Acetate	10.842	43	50208	23.804	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	35842	16.708	ug/l	99
49) cis-1,3-Dichloropropene	8.373	75	34403	16.066	ug/l	93
50) 1,1,2-Trichloroethane	9.153	97	20022	15.765	ug/l	96
51) Ethyl methacrylate	9.116	69	33599	16.415	ug/l	92
52) 1,3-Dichloropropane	9.311	76	38059	17.538	ug/l	99
53) Dibromochloromethane	9.525	129	23470	16.187	ug/l	97
54) 1,2-Dibromoethane	9.610	107	22539	15.889	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	79788	87.597	ug/l	96
56) Bromoform	10.805	173	15136	15.723	ug/l	95
58) 4-Methyl-2-Pentanone	8.574	43	180257	140.410	ug/l	94
59) 2-Hexanone	9.433	43	138575	140.480	ug/l	94
61) Tetrachloroethene	9.275	164	18734	20.994	ug/l	92
62) Toluene	8.720	91	84802	21.769	ug/l	96
64) Chlorobenzene	10.080	112	51031	21.689	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	21477	20.433	ug/l	96
66) Ethyl Benzene	10.195	91	100490	21.817	ug/l	95
67) m/p-Xylenes	10.305	106	69412	43.826	ug/l	83
68) o-Xylene	10.647	106	35631	23.037	ug/l	86
69) Styrene	10.659	104	56741	21.596	ug/l #	89
70) Isopropylbenzene	10.964	105	103655	23.067	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.214	83	45014	30.345	ug/l	100
72) 1,2,3-Trichloropropane	11.244	75	36314m	25.275	ug/l	
73) Bromobenzene	11.201	156	27825	27.710	ug/l	74
74) n-propylbenzene	11.305	91	146494	27.488	ug/l	97
75) 2-Chlorotoluene	11.366	91	92341	27.648	ug/l	90
76) 1,3,5-Trimethylbenzene	11.451	105	106921	27.282	ug/l	91
77) t-1,4-Dichloro-2-butene	11.025	75	10718	22.156	ug/l	76
78) 4-Chlorotoluene	11.457	91	103426	27.133	ug/l	95
79) tert-butylbenzene	11.720	119	106297	28.788	ug/l	96
80) 1,2,4-Trimethylbenzene	11.756	105	109058	28.297	ug/l	91
81) sec-Butylbenzene	11.890	105	128588	27.991	ug/l	99
82) p-Isopropyltoluene	12.012	119	108849	28.567	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	52012	27.855	ug/l	97
84) 1,4-Dichlorobenzene	12.043	146	53256	28.640	ug/l	97
85) n-Butylbenzene	12.335	91	95699	27.538	ug/l	97
86) Hexachloroethane	12.543	117	18943	27.886	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	50864	27.667	ug/l	94
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10731	26.448	ug/l	86
89) 1,2,4-Trichlorobenzene	13.591	180	31922	28.664	ug/l	94
90) Hexachlorobutadiene	13.725	225	16368	29.089	ug/l	99
91) Naphthalene	13.780	128	103058	27.078	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	32100	28.259	ug/l	97

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

