

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030524\
 Data File : VX040581.D
 Acq On : 05 Mar 2024 11:44
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/05/2024
 Supervised By : Mahesh Dadoda 03/06/2024

Quant Time: Mar 05 13:15:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:11:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	14094	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	80975	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	76859	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	41303	18.693	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 62.300%#			
60) 4-Bromofluorobenzene	11.079	95	41824	24.672	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 82.233%			
63) Toluene-d8	8.647	98	102841	32.545	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 108.467%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	46052	19.340	ug/l	100
3) Chloromethane	1.294	50	46129	17.437	ug/l	98
4) Vinyl Chloride	1.374	62	49966	19.353	ug/l	99
5) Bromomethane	1.599	94	34875	28.267	ug/l	99
6) Chloroethane	1.685	64	32608	27.747	ug/l	98
7) Trichlorofluoromethane	1.886	101	87459	23.989	ug/l	97
8) Diethyl Ether	2.136	74	29522	21.642	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	43225	19.357	ug/l	95
10) 1,1-Dichloroethene	2.319	96	40793	19.066	ug/l	98
11) Methyl Iodide	2.453	142	51461	21.949	ug/l	97
12) Methyl Acetate	2.703	43	70648	20.502	ug/l	98
13) Acrolein	2.233	56	65161	126.737	ug/l	98
14) Acrylonitrile	3.062	53	135082	85.482	ug/l	98
15) Acetone	2.380	58	39102	78.447	ug/l	77
16) Carbon Disulfide	2.508	76	112632	19.526	ug/l	98
17) Allyl chloride	2.660	41	74994	17.775	ug/l	85
18) Methylene Chloride	2.788	84	46600	18.631	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	45431	20.011	ug/l	98
20) Diisopropyl ether	3.763	45	149882	18.200	ug/l	93
21) 1,1-Dichloroethane	3.611	63	87613	19.054	ug/l	96
22) cis-1,2-Dichloroethene	4.489	96	53733	20.248	ug/l	99
23) tert-Butyl Alcohol	2.965	59	61274	82.775	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	150774	19.226	ug/l	94
25) Chloroform	5.099	83	95668	21.199	ug/l	96
26) Cyclohexane	5.470	56	72333	18.133	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	69844	30.057	ug/l	97
30) 2-Butanone	4.556	43	208516	125.111	ug/l	98
31) 2,2-Dichloropropane	4.477	77	74652	28.895	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	85055	31.670	ug/l	98
33) Carbon Tetrachloride	5.678	117	73588	34.757	ug/l	95
34) Benzene	6.037	78	184912	26.824	ug/l	98
35) Methacrylonitrile	4.916	41	42251	26.347	ug/l	96
36) 1,2-Dichloroethane	6.086	62	82599	30.557	ug/l	95
37) Trichloroethene	7.129	130	50091	30.584	ug/l	91
38) Methylcyclohexane	7.379	83	77667	27.318	ug/l	98
39) 1,2-Dichloropropane	7.427	63	48657	26.197	ug/l	97
40) Dibromomethane	7.580	93	38474	30.666	ug/l	97
41) Bromodichloromethane	7.824	83	76058	32.715	ug/l	96
42) Vinyl Acetate	3.721	43	720313	130.715	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030524\
 Data File : VX040581.D
 Acq On : 05 Mar 2024 11:44
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/05/2024
 Supervised By : Mahesh Dadoda 03/06/2024

Quant Time: Mar 05 13:15:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:11:20 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	75219	24.079	ug/l	99
44) Isopropyl Acetate	6.336	43	126495	26.194	ug/l	95
45) 1,4-Dioxane	7.659	88	25702	552.025	ug/l	97
46) Methyl methacrylate	7.690	41	63744	27.484	ug/l	92
47) n-amyl Acetate	10.841	43	118176	28.020	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	81755	32.673	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	83871	30.606	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	49862	28.993	ug/l	98
51) Ethyl methacrylate	9.116	69	81387	28.330	ug/l	96
52) 1,3-Dichloropropane	9.305	76	88021	29.659	ug/l	99
53) Dibromochloromethane	9.518	129	57545	35.955	ug/l	100
54) 1,2-Dibromoethane	9.610	107	55950	31.042	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	202739	145.030	ug/l	99
56) Bromoform	10.799	173	43019	39.906	ug/l #	97
58) 4-Methyl-2-Pentanone	8.574	43	429348	169.828	ug/l	99
59) 2-Hexanone	9.427	43	342748	167.483	ug/l	97
61) Tetrachloroethene	9.275	164	47177	46.338	ug/l	98
62) Toluene	8.720	91	214469	37.640	ug/l	99
64) Chlorobenzene	10.079	112	132983	40.142	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	51775	43.960	ug/l	97
66) Ethyl Benzene	10.195	91	253488	40.515	ug/l	98
67) m/p-Xylenes	10.299	106	188438	82.454	ug/l	96
68) o-Xylene	10.640	106	91055	39.686	ug/l	94
69) Styrene	10.652	104	154032	41.994	ug/l	98
70) Isopropylbenzene	10.963	105	244332	40.347	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	84760	36.441	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	72535m	37.284	ug/l	
73) Bromobenzene	11.195	156	57195	42.779	ug/l	96
74) n-propylbenzene	11.305	91	304808	42.215	ug/l	99
75) 2-Chlorotoluene	11.366	91	178383	39.768	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	211325	40.849	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	23945	37.505	ug/l	83
78) 4-Chlorotoluene	11.451	91	210904	42.392	ug/l	97
79) tert-butylbenzene	11.713	119	204686	41.756	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	212241	41.339	ug/l	100
81) sec-Butylbenzene	11.890	105	267444	42.452	ug/l	100
82) p-Isopropyltoluene	12.006	119	215095	42.900	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	110069	44.047	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	112237	45.284	ug/l	98
85) n-Butylbenzene	12.329	91	212687	46.348	ug/l	98
86) Hexachloroethane	12.536	117	38002	44.302	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	108993	43.522	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	22767	40.878	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	70901	50.216	ug/l	98
90) Hexachlorobutadiene	13.725	225	29724	48.090	ug/l	99
91) Naphthalene	13.774	128	240190	43.603	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	72496	49.591	ug/l	99

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

