

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091622\
 Data File : VX031401.D
 Acq On : 16 Sep 2022 11:03
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

09/17/2022
 Supervised By :Mahesh
 Dadoda

Quant Time: Sep 16 12:35:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X091622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	14402	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	79311	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	76305	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	39763	33.859	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 112.867%#	
60) 4-Bromofluorobenzene	11.079	95	44343	30.836	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 102.800%	
63) Toluene-d8	8.653	98	126014	30.456	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.533%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	38697	39.293	ug/l	96
3) Chloromethane	1.288	50	54078	52.658	ug/l	98
4) Vinyl Chloride	1.374	62	64756	55.646	ug/l	99
5) Bromomethane	1.611	94	83853	174.894	ug/l	99
6) Chloroethane	1.684	64	85326	136.916	ug/l	99
7) Trichlorofluoromethane	1.886	101	150660	102.134	ug/l	99
8) Diethyl Ether	2.136	74	50537	80.547	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.331	101	51128	51.475	ug/l	92
10) 1,1-Dichloroethene	2.318	96	48282	47.606	ug/l	97
11) Methyl Iodide	2.453	142	59213	56.561	ug/l	98
12) Methyl Acetate	2.709	43	75683	45.820	ug/l	97
13) Acrolein	2.239	56	45364	233.785	ug/l	98
14) Acrylonitrile	3.068	53	154964	217.986	ug/l	99
15) Acetone	2.386	58	41114	212.913	ug/l	95
16) Carbon Disulfide	2.514	76	125775	47.506	ug/l	99
17) Allyl chloride	2.666	41	80229	44.888	ug/l	87
18) Methylene Chloride	2.788	84	55030	46.573	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	55858	50.752	ug/l	94
20) Diisopropyl ether	3.763	45	182370	50.935	ug/l	92
21) 1,1-Dichloroethane	3.611	63	98653	51.181	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	66111	50.587	ug/l	98
23) tert-Butyl Alcohol	2.995	59	71287	218.896	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	182475	55.771	ug/l	97
25) Chloroform	5.098	83	110691	57.621	ug/l	91
26) Cyclohexane	5.470	56	88721	49.678	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	79319	58.462	ug/l	100
30) 2-Butanone	4.562	43	225282	246.003	ug/l	100
31) 2,2-Dichloropropane	4.477	77	91082	70.239	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	100048	68.579	ug/l	97
33) Carbon Tetrachloride	5.678	117	88420	72.162	ug/l	97
34) Benzene	6.043	78	236172	54.168	ug/l	98
35) Methacrylonitrile	4.922	41	45914	49.533	ug/l	84
36) 1,2-Dichloroethane	6.092	62	89335	67.309	ug/l	100
37) Trichloroethene	7.129	130	64810	55.581	ug/l	96
38) Methylcyclohexane	7.385	83	92753	52.686	ug/l	98
39) 1,2-Dichloropropane	7.433	63	58469	52.681	ug/l	99
40) Dibromomethane	7.586	93	45051	59.883	ug/l	89
41) Bromodichloromethane	7.824	83	86989	64.730	ug/l	98
42) Vinyl Acetate	3.721	43	810346	276.703	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	89670	51.982	ug/l	100
44) Isopropyl Acetate	6.342	43	148840	56.797	ug/l	94
45) 1,4-Dioxane	7.689	88	32543	1057.860	ug/l	93
46) Methyl methacrylate	7.696	41	66349	53.427	ug/l	89
47) n-amyl Acetate	10.841	43	137038	60.873	ug/l	95
48) t-1,3-Dichloropropene	8.976	75	96581	65.032	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	100078	60.010	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	64330	57.718	ug/l	97
51) Ethyl methacrylate	9.116	69	98203	56.621	ug/l	92
52) 1,3-Dichloropropane	9.311	76	107264	59.829	ug/l	100
53) Dibromochloromethane	9.524	129	72109	69.900	ug/l	100
54) 1,2-Dibromoethane	9.610	107	70505	60.917	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	252388	282.296	ug/l	98
56) Bromoform	10.799	173	52469	72.656	ug/l	97
58) 4-Methyl-2-Pentanone	8.573	43	484982	257.312	ug/l	98
59) 2-Hexanone	9.433	43	374611	256.970	ug/l	98
61) Tetrachloroethene	9.275	164	64211	56.045	ug/l	94
62) Toluene	8.720	91	277073	54.586	ug/l	97
64) Chlorobenzene	10.079	112	172000	56.740	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	63783	60.340	ug/l	97
66) Ethyl Benzene	10.195	91	312202	57.879	ug/l	99
67) m/p-Xylenes	10.305	106	259367	123.912	ug/l	99
68) o-Xylene	10.640	106	123316	59.162	ug/l	99
69) Styrene	10.658	104	211899	61.432	ug/l	98
70) Isopropylbenzene	10.963	105	327587	62.421	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	105188	55.117	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	95430m	55.629	ug/l	
73) Bromobenzene	11.201	156	77664	61.714	ug/l	99
74) n-propylbenzene	11.305	91	394844	62.719	ug/l	98
75) 2-Chlorotoluene	11.366	91	232003	62.581	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	311759	70.755	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	33531	56.828	ug/l	87
78) 4-Chlorotoluene	11.457	91	297804	71.574	ug/l	98
79) tert-butylbenzene	11.719	119	289838	67.617	ug/l	100
80) 1,2,4-Trimethylbenzene	11.756	105	307220	67.821	ug/l	99
81) sec-Butylbenzene	11.890	105	373594	64.389	ug/l	100
82) p-Isopropyltoluene	12.012	119	319110	68.318	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	163536	67.167	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	173141	70.118	ug/l	99
85) n-Butylbenzene	12.335	91	278451	63.526	ug/l	97
86) Hexachloroethane	12.542	117	51804	66.753	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	166116	69.093	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	23335	53.616	ug/l	92
89) 1,2,4-Trichlorobenzene	13.591	180	86886	58.368	ug/l	97
90) Hexachlorobutadiene	13.725	225	31079	55.052	ug/l	99
91) Naphthalene	13.774	128	317571	53.523	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	84994	56.055	ug/l	98

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

