

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032824\
 Data File : VX040830.D
 Acq On : 28 Mar 2024 17:57
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX032824

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/29/2024
 Supervised By : Mahesh Dadoda 03/29/2024

Quant Time: Mar 29 05:14:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 29 04:49:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	3631	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	27954	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	35574	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	17253	27.724	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	92.400%	
60) 4-Bromofluorobenzene	11.079	95	23541	30.293	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.967%	
63) Toluene-d8	8.647	98	40948	29.362	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	97.867%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.172	85	12232	19.242	ug/l	99
3) Chloromethane	1.300	50	11830	20.386	ug/l	90
4) Vinyl Chloride	1.374	62	12421	20.771	ug/l	95
5) Bromomethane	1.611	94	8301	21.975	ug/l	97
6) Chloroethane	1.691	64	7394	19.550	ug/l	99
7) Trichlorofluoromethane	1.892	101	19173	18.492	ug/l	91
8) Diethyl Ether	2.136	74	6213	19.219	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	11006	18.975	ug/l	96
10) 1,1-Dichloroethene	2.319	96	10276	18.903	ug/l	93
11) Methyl Iodide	2.453	142	13991	18.829	ug/l	95
12) Methyl Acetate	2.703	43	15166	19.433	ug/l	97
13) Acrolein	2.239	56	7955	93.047	ug/l	99
14) Acrylonitrile	3.062	53	32919	96.888	ug/l	99
15) Acetone	2.379	58	8510	88.323	ug/l #	61
16) Carbon Disulfide	2.514	76	29237	19.150	ug/l	96
17) Allyl chloride	2.666	41	19141	19.179	ug/l	79
18) Methylene Chloride	2.788	84	11411	19.508	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	11068	19.483	ug/l	96
20) Diisopropyl ether	3.763	45	36653	18.863	ug/l	97
21) 1,1-Dichloroethane	3.611	63	21359	19.471	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	12803	19.182	ug/l	94
23) tert-Butyl Alcohol	2.953	59	15632	99.182	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	37016	19.135	ug/l	94
25) Chloroform	5.092	83	22397	18.836	ug/l	97
26) Cyclohexane	5.470	56	16546	18.145	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	14704	18.851	ug/l	86
30) 2-Butanone	4.556	43	48964	99.210	ug/l	96
31) 2,2-Dichloropropane	4.477	77	17255	18.731	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	19291m	18.731	ug/l	
33) Carbon Tetrachloride	5.684	117	16897	19.007	ug/l	93
34) Benzene	6.037	78	42040	18.789	ug/l	99
35) Methacrylonitrile	4.922	41	10264	19.497	ug/l	97
36) 1,2-Dichloroethane	6.092	62	18112	18.630	ug/l #	94
37) Trichloroethene	7.123	130	10638	19.246	ug/l	97
38) Methylcyclohexane	7.379	83	17079	18.546	ug/l	94
39) 1,2-Dichloropropane	7.433	63	10063	18.930	ug/l	100
40) Dibromomethane	7.580	93	8545	19.386	ug/l	98
41) Bromodichloromethane	7.824	83	17895	19.998	ug/l #	92
42) Vinyl Acetate	3.721	43	178108	97.636	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	19141	19.643	ug/l	# 83
44) Isopropyl Acetate	6.342	43	28526	18.587	ug/l	94
45) 1,4-Dioxane	7.653	88	5837	406.168	ug/l	93
46) Methyl methacrylate	7.696	41	14869	20.123	ug/l	93
47) n-amyl Acetate	10.841	43	25307	18.312	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	16108	18.146	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	18101	19.737	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	10531	19.482	ug/l	95
51) Ethyl methacrylate	9.116	69	17826	18.881	ug/l	91
52) 1,3-Dichloropropane	9.305	76	18216	19.607	ug/l	98
53) Dibromochloromethane	9.518	129	12312	19.010	ug/l	99
54) 1,2-Dibromoethane	9.610	107	11326	18.930	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	47508	102.877	ug/l	99
56) Bromoform	10.799	173	8353	18.550	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	95110	94.664	ug/l	99
59) 2-Hexanone	9.427	43	76754	95.859	ug/l	95
61) Tetrachloroethene	9.268	164	9509	19.941	ug/l	92
62) Toluene	8.720	91	47557	19.766	ug/l	96
64) Chlorobenzene	10.079	112	30130	19.372	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	9970	18.291	ug/l	95
66) Ethyl Benzene	10.195	91	54522	19.279	ug/l	98
67) m/p-Xylenes	10.299	106	39683	38.221	ug/l	97
68) o-Xylene	10.640	106	18191	18.599	ug/l	89
69) Styrene	10.652	104	31763	18.715	ug/l	95
70) Isopropylbenzene	10.963	105	51222	19.224	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	17467	18.877	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	14517m	18.531	ug/l	
73) Bromobenzene	11.195	156	12391	19.503	ug/l	91
74) n-propylbenzene	11.305	91	64624	19.428	ug/l	100
75) 2-Chlorotoluene	11.366	91	38177	19.410	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	44413	19.263	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	5238	16.806	ug/l	65
78) 4-Chlorotoluene	11.451	91	44884	19.203	ug/l	98
79) tert-butylbenzene	11.713	119	41083	18.517	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	44153	19.324	ug/l	99
81) sec-Butylbenzene	11.890	105	54769	19.251	ug/l	99
82) p-Isopropyltoluene	12.006	119	45137	18.737	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	24041	19.487	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	24298	19.112	ug/l	99
85) n-Butylbenzene	12.329	91	43291	18.070	ug/l	97
86) Hexachloroethane	12.536	117	7622	17.809	ug/l	85
87) 1,2-Dichlorobenzene	12.335	146	22065	18.490	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	4623	19.411	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	16019	19.242	ug/l	99
90) Hexachlorobutadiene	13.725	225	6418	20.556	ug/l	100
91) Naphthalene	13.774	128	52915	19.005	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	15177	19.125	ug/l	100

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

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