

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121222\
 Data File : VX033369.D
 Acq On : 12 Dec 2022 12:55
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX121222

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/13/2022
 Supervised By : Mahesh Dadoda 12/13/2022

Quant Time: Dec 13 07:30:13 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:37:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	13629	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	95398	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	105177	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	35255	29.453	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.167%	
60) 4-Bromofluorobenzene	11.079	95	58443	30.002	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.000%	
63) Toluene-d8	8.647	98	105040	30.022	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.067%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	21668	21.769	ug/l	96
3) Chloromethane	1.294	50	22312	22.214	ug/l	91
4) Vinyl Chloride	1.374	62	25966	21.546	ug/l	99
5) Bromomethane	1.617	94	19574	22.211	ug/l	99
6) Chloroethane	1.691	64	18528	20.795	ug/l	96
7) Trichlorofluoromethane	1.892	101	51839	21.099	ug/l	99
8) Diethyl Ether	2.136	74	12008	15.650	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	28497	22.844	ug/l	98
10) 1,1-Dichloroethene	2.325	96	26760	22.784	ug/l	93
11) Methyl Iodide	2.453	142	27588	20.681	ug/l	97
12) Methyl Acetate	2.709	43	35519	21.445	ug/l	100
13) Acrolein	2.239	56	22861	87.247	ug/l	100
14) Acrylonitrile	3.068	53	64330	106.855	ug/l	97
15) Acetone	2.392	58	24153	116.716	ug/l	94
16) Carbon Disulfide	2.514	76	67894	21.457	ug/l	100
17) Allyl chloride	2.666	41	40962	21.247	ug/l	97
18) Methylene Chloride	2.794	84	29328	21.515	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	28709	20.982	ug/l	97
20) Diisopropyl ether	3.757	45	86052	21.211	ug/l	99
21) 1,1-Dichloroethane	3.611	63	50986	21.307	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	33689	21.211	ug/l	99
23) tert-Butyl Alcohol	3.001	59	29056m	113.100	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	89790	21.128	ug/l	98
25) Chloroform	5.092	83	57519	21.123	ug/l	99
26) Cyclohexane	5.470	56	44823	21.416	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	41502	21.525	ug/l	98
30) 2-Butanone	4.562	43	96653	107.237	ug/l	98
31) 2,2-Dichloropropane	4.477	77	42164	20.808	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	52517	21.100	ug/l	99
33) Carbon Tetrachloride	5.678	117	47927	21.058	ug/l	94
34) Benzene	6.037	78	117293	21.228	ug/l	99
35) Methacrylonitrile	4.922	41	19800	21.436	ug/l	95
36) 1,2-Dichloroethane	6.086	62	45021	21.198	ug/l	98
37) Trichloroethene	7.129	130	33935	21.629	ug/l	96
38) Methylcyclohexane	7.379	83	48443	21.322	ug/l	99
39) 1,2-Dichloropropane	7.433	63	29120	21.136	ug/l	95
40) Dibromomethane	7.580	93	22533	21.375	ug/l	99
41) Bromodichloromethane	7.824	83	45329	20.983	ug/l	99
42) Vinyl Acetate	3.721	43	333798	106.971	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	34323	21.180	ug/l	98
44) Isopropyl Acetate	6.336	43	57044	20.735	ug/l	100
45) 1,4-Dioxane	7.696	88	14793	459.092	ug/l #	95
46) Methyl methacrylate	7.690	41	29201	21.309	ug/l	99
47) n-amyl Acetate	10.841	43	49898	21.613	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	44317	20.452	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	48245	20.744	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	31285	21.460	ug/l	96
51) Ethyl methacrylate	9.116	69	44558	21.392	ug/l	98
52) 1,3-Dichloropropane	9.311	76	51562	21.660	ug/l	99
53) Dibromochloromethane	9.518	129	36050	20.577	ug/l	99
54) 1,2-Dibromoethane	9.610	107	33900	21.244	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	98361	100.576	ug/l	99
56) Bromoform	10.799	173	25775	20.382	ug/l	100
58) 4-Methyl-2-Pentanone	8.573	43	179674	105.641	ug/l	99
59) 2-Hexanone	9.433	43	142070	109.236	ug/l	100
61) Tetrachloroethene	9.275	164	29813	21.168	ug/l	98
62) Toluene	8.720	91	134645	21.090	ug/l	100
64) Chlorobenzene	10.079	112	85690	21.218	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	33181	20.805	ug/l	99
66) Ethyl Benzene	10.195	91	153753	21.373	ug/l	98
67) m/p-Xylenes	10.299	106	119813	42.609	ug/l	99
68) o-Xylene	10.640	106	58439	21.330	ug/l	100
69) Styrene	10.652	104	96224	21.141	ug/l	99
70) Isopropylbenzene	10.963	105	156504	21.527	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	46342	21.553	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	41824m	21.843	ug/l	
73) Bromobenzene	11.201	156	38752	21.543	ug/l	99
74) n-propylbenzene	11.305	91	179348	21.528	ug/l	99
75) 2-Chlorotoluene	11.366	91	107341	21.434	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	133665	21.869	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	12486	19.612	ug/l	94
78) 4-Chlorotoluene	11.457	91	122974	21.429	ug/l	98
79) tert-butylbenzene	11.713	119	131309	21.672	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	133091	22.152	ug/l	99
81) sec-Butylbenzene	11.890	105	158018	21.700	ug/l	98
82) p-Isopropyltoluene	12.012	119	134483	21.655	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	72346	21.851	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	72520	21.761	ug/l	98
85) n-Butylbenzene	12.335	91	111657	21.540	ug/l	99
86) Hexachloroethane	12.536	117	21929	19.895	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	70871	21.724	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	9803	20.926	ug/l	92
89) 1,2,4-Trichlorobenzene	13.585	180	43991	21.829	ug/l	97
90) Hexachlorobutadiene	13.725	225	19237	22.496	ug/l	98
91) Naphthalene	13.774	128	142923	21.913	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	43664	21.635	ug/l	99

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

