

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039021.D
 Acq On : 24 Nov 2023 13:37
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX112423

Quant Time: Nov 27 03:26:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 11/27/2023
 Supervised By : Mahesh Dadoda 11/27/2023

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

Internal Standards						
1) Bromochloromethane	4.898	128	10483m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	85168	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	107117	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	44867	31.285	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.267%			
60) 4-Bromofluorobenzene	11.079	95	69385	29.656	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.867%			
63) Toluene-d8	8.647	98	128754	30.402	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	32173	20.505	ug/l	99
3) Chloromethane	1.295	50	36179	20.138	ug/l	94
4) Vinyl Chloride	1.374	62	36779	20.278	ug/l	98
5) Bromomethane	1.605	94	25278	22.786	ug/l	96
6) Chloroethane	1.691	64	21926	20.759	ug/l	99
7) Trichlorofluoromethane	1.892	101	49507	19.777	ug/l	97
8) Diethyl Ether	2.130	74	19238	20.021	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	28424	20.093	ug/l	98
10) 1,1-Dichloroethene	2.319	96	28377	19.901	ug/l	99
11) Methyl Iodide	2.453	142	31690	20.281	ug/l	99
12) Methyl Acetate	2.703	43	93083	20.930	ug/l	100
13) Acrolein	2.233	56	38606	99.093	ug/l	98
14) Acrylonitrile	3.056	53	113007	103.894	ug/l	100
15) Acetone	2.374	58	34022	86.049	ug/l	90
16) Carbon Disulfide	2.514	76	86620	20.058	ug/l	99
17) Allyl chloride	2.666	41	58718	20.743	ug/l	96
18) Methylene Chloride	2.788	84	34589	20.464	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	32058	19.878	ug/l	97
20) Diisopropyl ether	3.764	45	110472	20.508	ug/l #	88
21) 1,1-Dichloroethane	3.611	63	60196	20.098	ug/l	95
22) cis-1,2-Dichloroethene	4.489	96	37562	20.097	ug/l	99
23) tert-Butyl Alcohol	2.947	59	60121	99.842	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	107020	20.374	ug/l	98
25) Chloroform	5.093	83	61354	20.410	ug/l	97
26) Cyclohexane	5.471	56	54332	20.043	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	45210	18.936	ug/l	99
30) 2-Butanone	4.550	43	169094	94.069	ug/l	100
31) 2,2-Dichloropropane	4.477	77	51799	18.976	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	54092	19.602	ug/l	98
33) Carbon Tetrachloride	5.678	117	45049	19.381	ug/l	94
34) Benzene	6.038	78	136205	19.584	ug/l	99
35) Methacrylonitrile	4.916	41	31045	19.497	ug/l	94
36) 1,2-Dichloroethane	6.086	62	50612	19.833	ug/l #	90
37) Trichloroethene	7.123	130	33941	19.228	ug/l	97
38) Methylcyclohexane	7.379	83	57291	19.259	ug/l	98
39) 1,2-Dichloropropane	7.428	63	35062	19.115	ug/l	98
40) Dibromomethane	7.580	93	25339	19.552	ug/l	99
41) Bromodichloromethane	7.818	83	48159	19.343	ug/l	97
42) Vinyl Acetate	3.721	43	419690	98.026	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	60976	19.717	ug/l	99
44) Isopropyl Acetate	6.336	43	95060	19.499	ug/l	100
45) 1,4-Dioxane	7.659	88	19529	392.403	ug/l	99
46) Methyl methacrylate	7.690	41	54319	19.488	ug/l	97
47) n-amyl Acetate	10.842	43	78419	19.005	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	54440	18.858	ug/l	94
49) cis-1,3-Dichloropropene	8.366	75	57130	19.183	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	34551	19.626	ug/l	97
51) Ethyl methacrylate	9.116	69	43154	19.582	ug/l	98
52) 1,3-Dichloropropane	9.305	76	58846	19.494	ug/l	99
53) Dibromochloromethane	9.519	129	35782	18.925	ug/l	96
54) 1,2-Dibromoethane	9.610	107	37806	19.582	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	131421	94.085	ug/l	100
56) Bromoform	10.799	173	25050	18.357	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	321956	99.115	ug/l	100
59) 2-Hexanone	9.427	43	258307	96.877	ug/l	100
61) Tetrachloroethene	9.275	164	27599	19.817	ug/l	96
62) Toluene	8.720	91	149845	19.704	ug/l	99
64) Chlorobenzene	10.080	112	89120	19.265	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	31822	19.101	ug/l	99
66) Ethyl Benzene	10.195	91	168295	19.434	ug/l	97
67) m/p-Xylenes	10.299	106	123657	38.644	ug/l	100
68) o-Xylene	10.640	106	60978	19.672	ug/l	97
69) Styrene	10.653	104	88127	19.211	ug/l	99
70) Isopropylbenzene	10.964	105	159159	19.191	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.214	83	59309	19.157	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	51649m	19.715	ug/l	
73) Bromobenzene	11.195	156	36217	19.181	ug/l	99
74) n-propylbenzene	11.305	91	194313	19.124	ug/l	99
75) 2-Chlorotoluene	11.366	91	114893	19.273	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	138767	19.422	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	19100	18.399	ug/l	95
78) 4-Chlorotoluene	11.451	91	131824	18.808	ug/l	100
79) tert-butylbenzene	11.713	119	131530	19.360	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	136547	19.096	ug/l	99
81) sec-Butylbenzene	11.890	105	164040	19.100	ug/l	100
82) p-Isopropyltoluene	12.006	119	137180	18.846	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	69469	19.225	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	70891	19.120	ug/l	100
85) n-Butylbenzene	12.335	91	135347	18.829	ug/l	98
86) Hexachloroethane	12.536	117	25893	18.774	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	67021	19.288	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	15236	19.242	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	44073	19.131	ug/l	99
90) Hexachlorobutadiene	13.725	225	15278	18.573	ug/l	98
91) Naphthalene	13.774	128	159719	18.799	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	41831	18.746	ug/l	97

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

