

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071224\
 Data File : VX042294.D
 Acq On : 12 Jul 2024 11:43
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/15/2024
 Supervised By : Mahesh Dadoda 07/15/2024

Quant Time: Jul 15 02:51:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	25952	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	144240	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	134281	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	53321	29.846	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.500%	
60) 4-Bromofluorobenzene	11.079	95	62851	30.238	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.800%	
63) Toluene-d8	8.647	98	170056	29.601	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.667%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	31060	18.489	ug/l	95
3) Chloromethane	1.300	50	29350	15.629	ug/l	99
4) Vinyl Chloride	1.374	62	30170	16.428	ug/l	98
5) Bromomethane	1.599	94	16533	16.841	ug/l	99
6) Chloroethane	1.666	64	16529	21.066	ug/l	99
7) Trichlorofluoromethane	1.874	101	48836	21.116	ug/l	98
8) Diethyl Ether	2.136	74	18398	18.381	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	32188	20.472	ug/l	99
10) 1,1-Dichloroethene	2.312	96	29650	18.694	ug/l	96
11) Methyl Iodide	2.447	142	29657	14.367	ug/l	96
12) Methyl Acetate	2.703	43	46879	23.183	ug/l	99
13) Acrolein	2.239	56	35968	88.216	ug/l	98
14) Acrylonitrile	3.068	53	89266	93.009	ug/l	100
15) Acetone	2.386	58	25094	91.399	ug/l	92
16) Carbon Disulfide	2.508	76	57091	16.425	ug/l	100
17) Allyl chloride	2.660	41	45210	18.769	ug/l	96
18) Methylene Chloride	2.788	84	34165	18.780	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	29710	18.700	ug/l	98
20) Diisopropyl ether	3.763	45	94889	19.165	ug/l	97
21) 1,1-Dichloroethane	3.605	63	54731	19.352	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	37212	19.348	ug/l	100
23) tert-Butyl Alcohol	2.989	59	31786	89.081	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	96203	19.609	ug/l	100
25) Chloroform	5.092	83	57681	20.069	ug/l	97
26) Cyclohexane	5.464	56	45157	18.383	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	37553	19.948	ug/l	97
30) 2-Butanone	4.562	43	118490	94.198	ug/l	99
31) 2,2-Dichloropropane	4.471	77	38160	18.499	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	48562	20.350	ug/l	100
33) Carbon Tetrachloride	5.672	117	42296	20.550	ug/l	95
34) Benzene	6.031	78	124638	19.874	ug/l	98
35) Methacrylonitrile	4.922	41	24434	19.339	ug/l	98
36) 1,2-Dichloroethane	6.086	62	40362	20.659	ug/l	99
37) Trichloroethene	7.123	130	34456	20.115	ug/l	95
38) Methylcyclohexane	7.379	83	48352	19.391	ug/l	98
39) 1,2-Dichloropropane	7.427	63	29639	19.841	ug/l	99
40) Dibromomethane	7.580	93	21989	19.898	ug/l	96
41) Bromodichloromethane	7.818	83	40348	20.380	ug/l	99
42) Vinyl Acetate	3.721	43	395059	93.828	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	44204	18.742	ug/l	100
44) Isopropyl Acetate	6.342	43	67069	18.986	ug/l	100
45) 1,4-Dioxane	7.665	88	16006m	371.713	ug/l	
46) Methyl methacrylate	7.696	41	32181	18.632	ug/l	98
47) n-amyl Acetate	10.841	43	58144	18.339	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	38084	18.683	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	45147	19.745	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	32242	20.065	ug/l	96
51) Ethyl methacrylate	9.116	69	48207	18.885	ug/l	98
52) 1,3-Dichloropropane	9.305	76	53530	20.377	ug/l	97
53) Dibromochloromethane	9.518	129	35579	20.233	ug/l	99
54) 1,2-Dibromoethane	9.610	107	34733	20.498	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	122508	103.110	ug/l	100
56) Bromoform	10.799	173	27688	19.310	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	235278	97.780	ug/l	99
59) 2-Hexanone	9.433	43	178595	96.164	ug/l	100
61) Tetrachloroethene	9.269	164	36056	21.339	ug/l	97
62) Toluene	8.714	91	136359	20.067	ug/l	99
64) Chlorobenzene	10.079	112	92976	20.093	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	32458	20.311	ug/l	98
66) Ethyl Benzene	10.189	91	148417	19.978	ug/l	97
67) m/p-Xylenes	10.299	106	120396	40.291	ug/l	98
68) o-Xylene	10.640	106	59281	19.898	ug/l	99
69) Styrene	10.652	104	100575	20.202	ug/l	99
70) Isopropylbenzene	10.963	105	154401	20.612	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	51647	19.922	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	41581m	19.803	ug/l	
73) Bromobenzene	11.195	156	44275	20.263	ug/l	97
74) n-propylbenzene	11.305	91	167512	20.357	ug/l	100
75) 2-Chlorotoluene	11.360	91	105362	20.164	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	126886	20.219	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	12699	16.348	ug/l	90
78) 4-Chlorotoluene	11.451	91	117128	20.179	ug/l	99
79) tert-butylbenzene	11.713	119	134671	20.217	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	129337	20.629	ug/l	97
81) sec-Butylbenzene	11.890	105	159885	20.578	ug/l	100
82) p-Isopropyltoluene	12.006	119	138634	20.362	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	79259	20.345	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	79222	20.429	ug/l	98
85) n-Butylbenzene	12.329	91	103619	19.681	ug/l	99
86) Hexachloroethane	12.536	117	21317	19.172	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	80068	20.322	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	9812	18.298	ug/l	100
89) 1,2,4-Trichlorobenzene	13.591	180	51279	19.227	ug/l	98
90) Hexachlorobutadiene	13.725	225	27062	20.592	ug/l	97
91) Naphthalene	13.774	128	154296	19.147	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	55795	20.200	ug/l	99

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

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