

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011822\
 Data File : VX026505.D
 Acq On : 18 Jan 2022 17:17
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Quant Time: Jan 19 07:32:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

01/19/2022
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.909	128	18292	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	102491	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	89387	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	42995	29.231	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.433%
60) 4-Bromofluorobenzene	11.079	95	43892	29.422	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.067%
63) Toluene-d8	8.653	98	122504	29.833	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.433%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	22752	20.651	ug/l	99
3) Chloromethane	1.294	50	20963	21.778	ug/l	93
4) Vinyl Chloride	1.380	62	22119	20.787	ug/l	97
5) Bromomethane	1.617	94	10870	22.689	ug/l	97
6) Chloroethane	1.690	64	13122	21.732	ug/l	96
7) Trichlorofluoromethane	1.892	101	33358	19.780	ug/l	97
8) Diethyl Ether	2.135	74	12277	20.403	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.337	101	21612	20.532	ug/l	100
10) 1,1-Dichloroethene	2.324	96	20046	20.387	ug/l	99
11) Methyl Iodide	2.459	142	26620	24.928	ug/l	98
12) Methyl Acetate	2.709	43	42866	20.810	ug/l	95
13) Acrolein	2.239	56	26018	121.874	ug/l	96
14) Acrylonitrile	3.068	53	61389	106.842	ug/l	99
15) Acetone	2.385	58	18667	103.427	ug/l	96
16) Carbon Disulfide	2.520	76	53341	19.210	ug/l	99
17) Allyl chloride	2.672	41	36958	19.530	ug/l	98
18) Methylene Chloride	2.794	84	22719	20.978	ug/l	96
19) trans-1,2-Dichloroethene	3.099	96	21496	20.338	ug/l	99
20) Diisopropyl ether	3.763	45	76108	20.694	ug/l	97
21) 1,1-Dichloroethane	3.617	63	41205	20.350	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	25433	20.567	ug/l	95
23) tert-Butyl Alcohol	2.977	59	18009	86.412	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	72148	19.731	ug/l	100
25) Chloroform	5.098	83	44654	21.283	ug/l	99
26) Cyclohexane	5.476	56	37360	20.171	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	31211	19.717	ug/l	98
30) 2-Butanone	4.562	43	92763	100.907	ug/l	100
31) 2,2-Dichloropropane	4.483	77	29047	17.716	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	37396	19.405	ug/l	99
33) Carbon Tetrachloride	5.684	117	32720	19.165	ug/l	99
34) Benzene	6.043	78	90064	20.519	ug/l	97
35) Methacrylonitrile	4.922	41	20515	21.299	ug/l	96
36) 1,2-Dichloroethane	6.092	62	34900	19.687	ug/l	99
37) Trichloroethene	7.128	130	25464	20.088	ug/l	99
38) Methylcyclohexane	7.385	83	37647	19.845	ug/l	99
39) 1,2-Dichloropropane	7.433	63	23138	20.615	ug/l	95
40) Dibromomethane	7.580	93	16227	20.581	ug/l	98
41) Bromodichloromethane	7.824	83	32947	20.247	ug/l	99
42) Vinyl Acetate	3.727	43	286641	100.640	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	34654	20.733	ug/l	100
44) Isopropyl Acetate	6.342	43	54668	19.816	ug/l	100
45) 1,4-Dioxane	7.683	88	8066	377.228	ug/l	98
46) Methyl methacrylate	7.695	41	27658	20.439	ug/l	94
47) n-amyl Acetate	10.847	43	41113	19.918	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	31401	19.326	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	35433	19.721	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	23052	21.263	ug/l	97
51) Ethyl methacrylate	9.116	69	35982	20.817	ug/l	98
52) 1,3-Dichloropropane	9.311	76	40328	21.465	ug/l	100
53) Dibromochloromethane	9.524	129	23856	20.247	ug/l	97
54) 1,2-Dibromoethane	9.610	107	23890	20.779	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	94358	102.049	ug/l	100
56) Bromoform	10.799	173	15188	19.417	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	174828	104.857	ug/l	99
59) 2-Hexanone	9.433	43	129807	100.547	ug/l	99
61) Tetrachloroethene	9.274	164	26804	20.345	ug/l	96
62) Toluene	8.720	91	97902	20.515	ug/l	100
64) Chlorobenzene	10.079	112	59616	20.577	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	22458	20.357	ug/l	99
66) Ethyl Benzene	10.195	91	108675	20.353	ug/l	100
67) m/p-Xylenes	10.305	106	81591	41.129	ug/l	98
68) o-Xylene	10.640	106	39981	20.780	ug/l	100
69) Styrene	10.658	104	64843	20.276	ug/l	99
70) Isopropylbenzene	10.963	105	107220	20.770	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	28655	20.369	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	28774m	20.169	ug/l	
73) Bromobenzene	11.201	156	23929	20.251	ug/l	99
74) n-propylbenzene	11.305	91	120575	20.222	ug/l	100
75) 2-Chlorotoluene	11.366	91	73050	20.394	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	88151	20.443	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	7804	18.188	ug/l	98
78) 4-Chlorotoluene	11.457	91	82034	20.088	ug/l	99
79) tert-butylbenzene	11.713	119	81507	20.422	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	86427	20.292	ug/l	100
81) sec-Butylbenzene	11.890	105	106026	20.279	ug/l	100
82) p-Isopropyltoluene	12.012	119	88260	19.983	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	43989	20.003	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	43791	19.872	ug/l	99
85) n-Butylbenzene	12.335	91	74706	19.544	ug/l	99
86) Hexachloroethane	12.542	117	12561	18.838	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	43212	20.450	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	6353	17.700	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	26463	19.130	ug/l	99
90) Hexachlorobutadiene	13.725	225	11414	18.905	ug/l	97
91) Naphthalene	13.780	128	91675	19.171	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	26365	19.162	ug/l	98

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

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