

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021022\
 Data File : VX026912.D
 Acq On : 10 Feb 2022 11:28
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/11/2022
 Supervised By : Mahesh Dadoda 02/11/2022

Quant Time: Feb 11 03:39:00 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

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

Internal Standards						
1) Bromochloromethane	4.904	128	16499	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	92223	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	83668	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	37004	27.892	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	92.967%	
60) 4-Bromofluorobenzene	11.079	95	41085	29.423	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	98.067%	
63) Toluene-d8	8.647	98	111122	28.911	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	96.367%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	20888	21.019	ug/l	98
3) Chloromethane	1.295	50	18893	21.761	ug/l	95
4) Vinyl Chloride	1.380	62	19554	20.373	ug/l	98
5) Bromomethane	1.618	94	9064	20.976	ug/l	92
6) Chloroethane	1.691	64	11744	21.564	ug/l	99
7) Trichlorofluoromethane	1.892	101	29786	19.582	ug/l	100
8) Diethyl Ether	2.136	74	10840	19.972	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	19653	20.700	ug/l	96
10) 1,1-Dichloroethene	2.325	96	18812	21.211	ug/l	93
11) Methyl Iodide	2.459	142	22973	23.850	ug/l	95
12) Methyl Acetate	2.703	43	42592	22.923	ug/l	99
13) Acrolein	2.240	56	21936	113.920	ug/l	99
14) Acrylonitrile	3.063	53	60717	117.156	ug/l	98
15) Acetone	2.380	58	24767	152.137	ug/l	92
16) Carbon Disulfide	2.520	76	48688	19.440	ug/l	100
17) Allyl chloride	2.666	41	34395	20.151	ug/l	95
18) Methylene Chloride	2.794	84	21011	21.509	ug/l	97
19) trans-1,2-Dichloroethene	3.099	96	19813	20.783	ug/l	93
20) Diisopropyl ether	3.764	45	68300	20.589	ug/l	98
21) 1,1-Dichloroethane	3.611	63	37520	20.543	ug/l	100
22) cis-1,2-Dichloroethene	4.495	96	23534	21.100	ug/l	95
23) tert-Butyl Alcohol	2.971	59	18678	99.361	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	65153	19.754	ug/l	98
25) Chloroform	5.099	83	38765	20.484	ug/l	99
26) Cyclohexane	5.477	56	34115	20.421	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	28617	20.091	ug/l	99
30) 2-Butanone	4.556	43	100349	121.312	ug/l	99
31) 2,2-Dichloropropane	4.483	77	27714	18.785	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	33408	19.266	ug/l	99
33) Carbon Tetrachloride	5.684	117	29738	19.358	ug/l	99
34) Benzene	6.044	78	83986	21.265	ug/l	99
35) Methacrylonitrile	4.916	41	18744	21.627	ug/l	93
36) 1,2-Dichloroethane	6.092	62	31145	19.525	ug/l	97
37) Trichloroethene	7.123	130	24483	21.464	ug/l	94
38) Methylcyclohexane	7.379	83	35049	20.533	ug/l	98
39) 1,2-Dichloropropane	7.434	63	21608	21.395	ug/l	98
40) Dibromomethane	7.586	93	15028	21.182	ug/l	99
41) Bromodichloromethane	7.824	83	29599	20.215	ug/l	99
42) Vinyl Acetate	3.721	43	261316	101.963	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	32734	21.765	ug/l	98
44) Isopropyl Acetate	6.342	43	49803	20.063	ug/l	100
45) 1,4-Dioxane	7.671	88	8281	430.402	ug/l	98
46) Methyl methacrylate	7.690	41	24698	20.283	ug/l	94
47) n-amyl Acetate	10.842	43	39745	21.400	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	29225	19.989	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	32745	20.254	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	21626	22.169	ug/l	94
51) Ethyl methacrylate	9.116	69	32970	21.198	ug/l	97
52) 1,3-Dichloropropane	9.311	76	36782	21.758	ug/l	100
53) Dibromochloromethane	9.525	129	22272	21.007	ug/l	98
54) 1,2-Dibromoethane	9.610	107	22947	22.181	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	79373	95.400	ug/l	98
56) Bromoform	10.799	173	15119	21.481	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	170750	109.411	ug/l	100
59) 2-Hexanone	9.433	43	133583	110.544	ug/l	99
61) Tetrachloroethene	9.275	164	26259	21.294	ug/l	97
62) Toluene	8.720	91	90992	20.371	ug/l	99
64) Chlorobenzene	10.080	112	57204	21.094	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	21276	20.604	ug/l	99
66) Ethyl Benzene	10.195	91	103812	20.771	ug/l	99
67) m/p-Xylenes	10.305	106	79373	42.746	ug/l	97
68) o-Xylene	10.640	106	38649	21.460	ug/l	100
69) Styrene	10.659	104	64213	21.451	ug/l	97
70) Isopropylbenzene	10.964	105	103284	21.376	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	27341	20.764	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	28812m	21.576	ug/l	
73) Bromobenzene	11.201	156	23963	21.666	ug/l	95
74) n-propylbenzene	11.305	91	117232	21.005	ug/l	99
75) 2-Chlorotoluene	11.366	91	71113	21.210	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	86004	21.309	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	7534	18.759	ug/l	95
78) 4-Chlorotoluene	11.457	91	80163	20.972	ug/l	98
79) tert-butylbenzene	11.713	119	78769	21.085	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	84220	21.125	ug/l	98
81) sec-Butylbenzene	11.890	105	104724	21.400	ug/l	100
82) p-Isopropyltoluene	12.012	119	87693	21.212	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	44347	21.544	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	44552	21.600	ug/l	99
85) n-Butylbenzene	12.335	91	73852	20.641	ug/l	99
86) Hexachloroethane	12.543	117	12574	20.146	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	42544	21.510	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	6339	18.868	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	26545	20.501	ug/l	99
90) Hexachlorobutadiene	13.725	225	11489	20.330	ug/l	97
91) Naphthalene	13.774	128	92186	20.596	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	26775	20.790	ug/l	98

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

