

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034766.D
 Acq On : 27 Mar 2023 22:57
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 03/29/2023
 Supervised By :Semsettin Yesilyurt 03/29/2023

Quant Time: Mar 28 05:47:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 05:37:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	28606	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	191570	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	209193	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	80024	34.742	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 115.800%#			
60) 4-Bromofluorobenzene	11.079	95	119915m	31.791	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.967%			
63) Toluene-d8	8.647	98	212599	31.621	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 105.400%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	50612	19.654	ug/l	99
3) Chloromethane	1.294	50	70929	23.233	ug/l	99
4) Vinyl Chloride	1.374	62	67188	22.691	ug/l	97
5) Bromomethane	1.618	94	45342	23.294	ug/l	98
6) Chloroethane	1.691	64	43353	26.363	ug/l	97
7) Trichlorofluoromethane	1.892	101	103662	23.443	ug/l	99
8) Diethyl Ether	2.136	74	39175	23.389	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	51519	20.088	ug/l	89
10) 1,1-Dichloroethene	2.319	96	53113	20.841	ug/l	94
11) Methyl Iodide	2.453	142	66637	17.853	ug/l	90
12) Methyl Acetate	2.703	43	122334	25.802	ug/l	99
13) Acrolein	2.239	56	72694	131.660	ug/l	97
14) Acrylonitrile	3.062	53	170319	114.886	ug/l	99
15) Acetone	2.386	58	46093	105.654	ug/l	93
16) Carbon Disulfide	2.514	76	130183	20.663	ug/l	99
17) Allyl chloride	2.666	41	103010	22.082	ug/l	93
18) Methylene Chloride	2.788	84	65432	22.377	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	57965	21.101	ug/l	97
20) Diisopropyl ether	3.757	45	219748	23.557	ug/l	99
21) 1,1-Dichloroethane	3.611	63	115349	22.787	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	68934	21.282	ug/l	91
23) tert-Butyl Alcohol	2.983	59	76293m	142.423	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	203072	23.233	ug/l	97
25) Chloroform	5.093	83	114863	22.620	ug/l	98
26) Cyclohexane	5.470	56	95095	21.114	ug/l #	94
29) 1,1-Dichloropropene	5.690	75	81363	21.693	ug/l	98
30) 2-Butanone	4.562	43	246763	117.005	ug/l	98
31) 2,2-Dichloropropane	4.477	77	83243	22.876	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	96515	22.182	ug/l	98
33) Carbon Tetrachloride	5.678	117	77235	20.335	ug/l	98
34) Benzene	6.037	78	252131	22.564	ug/l #	97
35) Methacrylonitrile	4.916	41	52774	23.051	ug/l	92
36) 1,2-Dichloroethane	6.086	62	96843	23.969	ug/l	96
37) Trichloroethene	7.129	130	61641	20.115	ug/l	95
38) Methylcyclohexane	7.379	83	89283	20.163	ug/l	98
39) 1,2-Dichloropropane	7.427	63	65008	23.245	ug/l	99
40) Dibromomethane	7.580	93	45216	22.900	ug/l	90
41) Bromodichloromethane	7.824	83	81599	21.940	ug/l	99
42) Vinyl Acetate	3.721	43	805644	114.186	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	95863	23.114	ug/l	100
44) Isopropyl Acetate	6.336	43	159237	24.786	ug/l	99
45) 1,4-Dioxane	7.690	88	33419	505.433	ug/l #	94
46) Methyl methacrylate	7.690	41	75872	23.652	ug/l	94
47) n-amyl Acetate	10.841	43	134587	24.588	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	85669	21.527	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	97339	21.876	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	61760	21.286	ug/l	96
51) Ethyl methacrylate	9.116	69	99961	22.752	ug/l	98
52) 1,3-Dichloropropane	9.311	76	110700	22.326	ug/l	98
53) Dibromochloromethane	9.519	129	58132	18.798	ug/l	99
54) 1,2-Dibromoethane	9.610	107	65416	20.914	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	274575	129.048	ug/l	97
56) Bromoform	10.799	173	37525	16.262	ug/l #	95
58) 4-Methyl-2-Pentanone	8.574	43	490188	124.563	ug/l	99
59) 2-Hexanone	9.427	43	365525	123.783	ug/l	100
61) Tetrachloroethene	9.275	164	52392	19.075	ug/l	94
62) Toluene	8.720	91	264945	22.364	ug/l	98
64) Chlorobenzene	10.079	112	161737	20.753	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	57337	19.981	ug/l	98
66) Ethyl Benzene	10.195	91	289686	21.505	ug/l	95
67) m/p-Xylenes	10.299	106	216904	41.204	ug/l	94
68) o-Xylene	10.640	106	109919	20.941	ug/l	92
69) Styrene	10.652	104	177600	20.675	ug/l	95
70) Isopropylbenzene	10.963	105	276381	20.585	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	96923	23.203	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	88267m	23.262	ug/l	
73) Bromobenzene	11.195	156	67659	19.002	ug/l	85
74) n-propylbenzene	11.305	91	319519	20.877	ug/l	96
75) 2-Chlorotoluene	11.366	91	199331	21.668	ug/l	94
76) 1,3,5-Trimethylbenzene	11.451	105	231831	20.847	ug/l	96
77) t-1,4-Dichloro-2-butene	11.018	75	23015	20.143	ug/l	94
78) 4-Chlorotoluene	11.451	91	224247	21.630	ug/l	93
79) tert-butylbenzene	11.713	119	219555	19.550	ug/l	93
80) 1,2,4-Trimethylbenzene	11.750	105	229220	20.753	ug/l	98
81) sec-Butylbenzene	11.890	105	262943	19.273	ug/l	96
82) p-Isopropyltoluene	12.006	119	220190	18.790	ug/l	95
83) 1,3-Dichlorobenzene	11.969	146	125889	19.397	ug/l	96
84) 1,4-Dichlorobenzene	12.042	146	124919	19.208	ug/l	96
85) n-Butylbenzene	12.329	91	185832	19.272	ug/l	97
86) Hexachloroethane	12.536	117	32256	17.441	ug/l	77
87) 1,2-Dichlorobenzene	12.335	146	126239	20.125	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	18669	22.062	ug/l #	77
89) 1,2,4-Trichlorobenzene	13.585	180	72328	17.059	ug/l	98
90) Hexachlorobutadiene	13.725	225	27737	14.360	ug/l	96
91) Naphthalene	13.774	128	269655	20.789	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	74647	17.852	ug/l	98

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

