

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121523\
 Data File : VX039222.D
 Acq On : 15 Dec 2023 09:36
 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 :Mahesh Dadoda 12/18/2023
 Supervised By :Semsettin Yesilyurt 12/18/2023

Quant Time: Dec 16 01:10:51 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

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

Internal Standards						
1) Bromochloromethane	4.898	128	10574m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	86406	30.000	ug/l	-0.01
57) Chlorobenzene-d5	10.049	117	105062	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	48954	33.841	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.800%#			
60) 4-Bromofluorobenzene	11.079	95	73456	32.011	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 106.700%			
63) Toluene-d8	8.647	98	125699	30.261	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.867%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	33613	21.238	ug/l	94
3) Chloromethane	1.295	50	36100	19.921	ug/l	96
4) Vinyl Chloride	1.374	62	35371	19.334	ug/l	100
5) Bromomethane	1.605	94	22371	19.992	ug/l	95
6) Chloroethane	1.691	64	20276	19.032	ug/l	96
7) Trichlorofluoromethane	1.886	101	52773	20.900	ug/l	97
8) Diethyl Ether	2.130	74	18747	19.342	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	33505	23.481	ug/l	99
10) 1,1-Dichloroethene	2.319	96	31346	21.794	ug/l	97
11) Methyl Iodide	2.453	142	30110	19.104	ug/l	96
12) Methyl Acetate	2.697	43	106774	23.802	ug/l	98
13) Acrolein	2.233	56	31474	80.091	ug/l	98
14) Acrylonitrile	3.056	53	117054	106.688	ug/l	99
15) Acetone	2.374	58	40763	102.211	ug/l	96
16) Carbon Disulfide	2.514	76	84115	19.310	ug/l	98
17) Allyl chloride	2.666	41	65181	22.828	ug/l	94
18) Methylene Chloride	2.788	84	38101	22.348	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	34520	21.221	ug/l	96
20) Diisopropyl ether	3.751	45	123519	22.732	ug/l	94
21) 1,1-Dichloroethane	3.605	63	67756	22.428	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	39227	20.808	ug/l	92
23) tert-Butyl Alcohol	2.941	59	52582	86.571	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	117905	22.253	ug/l	95
25) Chloroform	5.087	83	66649	21.981	ug/l	97
26) Cyclohexane	5.458	56	57504	21.030	ug/l #	97
29) 1,1-Dichloropropene	5.684	75	50383	20.801	ug/l	98
30) 2-Butanone	4.544	43	181453	99.499	ug/l	98
31) 2,2-Dichloropropane	4.465	77	57798	20.870	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	57916	20.687	ug/l	98
33) Carbon Tetrachloride	5.672	117	46050	19.528	ug/l	95
34) Benzene	6.031	78	142362	20.176	ug/l	99
35) Methacrylonitrile	4.910	41	33990	21.041	ug/l	96
36) 1,2-Dichloroethane	6.080	62	57287	22.127	ug/l	97
37) Trichloroethene	7.117	130	35656	19.910	ug/l	98
38) Methylcyclohexane	7.373	83	58399	19.350	ug/l	94
39) 1,2-Dichloropropane	7.428	63	37625	20.219	ug/l	93
40) Dibromomethane	7.580	93	26567	20.206	ug/l	97
41) Bromodichloromethane	7.818	83	52265	20.691	ug/l	99
42) Vinyl Acetate	3.715	43	450203	103.647	ug/l	99

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43) Ethyl Acetate	4.702	43	61932	19.739	ug/l	100
44) Isopropyl Acetate	6.330	43	99815	20.181	ug/l	98
45) 1,4-Dioxane	7.653	88	17435	345.308	ug/l	98
46) Methyl methacrylate	7.690	41	58289	20.613	ug/l	98
47) n-amyl Acetate	10.842	43	84378	20.156	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	56857	19.413	ug/l	97
49) cis-1,3-Dichloropropene	8.360	75	62789	20.781	ug/l	97
50) 1,1,2-Trichloroethane	9.147	97	36286	20.316	ug/l	95
51) Ethyl methacrylate	9.110	69	46050	20.597	ug/l	97
52) 1,3-Dichloropropane	9.305	76	63470	20.724	ug/l	100
53) Dibromochloromethane	9.519	129	37207	19.397	ug/l	98
54) 1,2-Dibromoethane	9.604	107	39031	19.927	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	136252	96.146	ug/l	99
56) Bromoform	10.799	173	24572	17.749	ug/l	98
58) 4-Methyl-2-Pentanone	8.568	43	336356	105.574	ug/l	99
59) 2-Hexanone	9.427	43	280760	107.358	ug/l	98
61) Tetrachloroethene	9.269	164	27434	20.084	ug/l	94
62) Toluene	8.714	91	153613	20.594	ug/l	99
64) Chlorobenzene	10.079	112	90998	20.056	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	33161	20.294	ug/l	98
66) Ethyl Benzene	10.189	91	174671	20.565	ug/l	98
67) m/p-Xylenes	10.299	106	126030	40.156	ug/l	95
68) o-Xylene	10.640	106	61091	20.094	ug/l	97
69) Styrene	10.653	104	90025	20.008	ug/l	97
70) Isopropylbenzene	10.957	105	169055	20.783	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.207	83	63221	20.820	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	55803m	21.717	ug/l	
73) Bromobenzene	11.195	156	36656	19.793	ug/l	92
74) n-propylbenzene	11.305	91	210648	21.137	ug/l	98
75) 2-Chlorotoluene	11.360	91	122988	21.035	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	142534	20.340	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	18377	18.049	ug/l	91
78) 4-Chlorotoluene	11.451	91	145074	21.104	ug/l	96
79) tert-butylbenzene	11.713	119	134847	20.237	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	144124	20.550	ug/l	99
81) sec-Butylbenzene	11.890	105	174641	20.732	ug/l	99
82) p-Isopropyltoluene	12.006	119	146192	20.477	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	70942	20.017	ug/l	97
84) 1,4-Dichlorobenzene	12.036	146	72801	20.019	ug/l	98
85) n-Butylbenzene	12.329	91	145511	20.639	ug/l	98
86) Hexachloroethane	12.536	117	25653	18.964	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	68570	20.120	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	15415	19.849	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	44720	19.792	ug/l	96
90) Hexachlorobutadiene	13.725	225	16695	20.693	ug/l	96
91) Naphthalene	13.774	128	159622	19.155	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	43903	20.060	ug/l	98

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

