

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010923\
 Data File : VX033657.D
 Acq On : 09 Jan 2023 12:06
 Operator : JC/MD
 Sample : VX0109WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0109WBS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/10/2023
 Supervised By : Mahesh Dadoda 01/11/2023

Quant Time: Jan 10 00:45:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	12758	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	92345	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	102999	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	34138	33.047	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.167%#			
60) 4-Bromofluorobenzene	11.079	95	57131	30.775	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.600%			
63) Toluene-d8	8.647	98	100657	30.536	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.800%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	22547	16.898	ug/l	95
3) Chloromethane	1.294	50	22604	15.805	ug/l	98
4) Vinyl Chloride	1.374	62	22289	17.253	ug/l	98
5) Bromomethane	1.617	94	15065	21.053	ug/l	98
6) Chloroethane	1.691	64	15559	20.565	ug/l	96
7) Trichlorofluoromethane	1.892	101	45776	22.961	ug/l	97
8) Diethyl Ether	2.130	74	13390	20.628	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	20851	20.170	ug/l	100
10) 1,1-Dichloroethene	2.325	96	19347	19.851	ug/l	100
11) Methyl Iodide	2.453	142	30793	18.379	ug/l	100
12) Methyl Acetate	2.709	43	33024	16.185	ug/l	100
13) Acrolein	2.239	56	22433	101.967	ug/l	99
14) Acrylonitrile	3.068	53	57674	85.713	ug/l	99
15) Acetone	2.404	58	14585	95.780	ug/l	97
16) Carbon Disulfide	2.514	76	55326	19.508	ug/l	97
17) Allyl chloride	2.666	41	37182	17.933	ug/l	96
18) Methylene Chloride	2.788	84	22515	16.496	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	22761	17.383	ug/l	95
20) Diisopropyl ether	3.757	45	97662	21.824	ug/l	94
21) 1,1-Dichloroethane	3.611	63	52402	21.353	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	32568	20.915	ug/l	99
23) tert-Butyl Alcohol	3.014	59	20182m	75.936	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	71487	17.177	ug/l	94
25) Chloroform	5.092	83	54506	21.882	ug/l	100
26) Cyclohexane	5.470	56	48567	21.322	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	37594	18.834	ug/l	99
30) 2-Butanone	4.568	43	103112	98.918	ug/l #	97
31) 2,2-Dichloropropane	4.477	77	39304	22.870	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	48216	20.690	ug/l	99
33) Carbon Tetrachloride	5.684	117	41064	19.522	ug/l	97
34) Benzene	6.037	78	117639	20.287	ug/l	99
35) Methacrylonitrile	4.922	41	24409	20.550	ug/l	94
36) 1,2-Dichloroethane	6.086	62	44329	21.029	ug/l	99
37) Trichloroethene	7.123	130	33140	19.816	ug/l	98
38) Methylcyclohexane	7.379	83	38914	15.678	ug/l	99
39) 1,2-Dichloropropane	7.427	63	23462	15.831	ug/l	96
40) Dibromomethane	7.580	93	16228	15.581	ug/l	96
41) Bromodichloromethane	7.818	83	34728	17.191	ug/l	100
42) Vinyl Acetate	3.721	43	368625	98.956	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	42961	20.113	ug/l	99
44) Isopropyl Acetate	6.336	43	64206	19.160	ug/l	99
45) 1,4-Dioxane	7.738	88	10238m	280.041	ug/l	
46) Methyl methacrylate	7.690	41	22939	13.520	ug/l	90
47) n-amyl Acetate	10.841	43	55562	19.474	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	44151	21.389	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	40999	17.884	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	30573	20.223	ug/l	96
51) Ethyl methacrylate	9.116	69	42686	18.934	ug/l	94
52) 1,3-Dichloropropane	9.305	76	51431	20.311	ug/l	99
53) Dibromochloromethane	9.519	129	36587	22.203	ug/l	98
54) 1,2-Dibromoethane	9.610	107	32507	20.119	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	82040	75.275	ug/l	99
56) Bromoform	10.799	173	28509	22.534	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	206578	100.966	ug/l	100
59) 2-Hexanone	9.427	43	152049	100.977	ug/l	99
61) Tetrachloroethene	9.275	164	29549	19.884	ug/l	98
62) Toluene	8.714	91	131287	20.249	ug/l	98
64) Chlorobenzene	10.079	112	84051	20.127	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	32099	20.423	ug/l	97
66) Ethyl Benzene	10.195	91	148964	20.602	ug/l	100
67) m/p-Xylenes	10.299	106	116541	40.838	ug/l	98
68) o-Xylene	10.640	106	56896	20.284	ug/l	100
69) Styrene	10.652	104	94179	20.287	ug/l	100
70) Isopropylbenzene	10.963	105	150956	20.781	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	45780	20.930	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	41585m	20.987	ug/l	
73) Bromobenzene	11.195	156	38818	20.192	ug/l	99
74) n-propylbenzene	11.305	91	175517	21.281	ug/l	100
75) 2-Chlorotoluene	11.366	91	103633	21.008	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	128023	21.227	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	13537	22.835	ug/l	90
78) 4-Chlorotoluene	11.451	91	118307	21.386	ug/l	98
79) tert-butylbenzene	11.713	119	130278	21.062	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	125316	21.032	ug/l	98
81) sec-Butylbenzene	11.890	105	160287	21.417	ug/l	98
82) p-Isopropyltoluene	12.006	119	137472	21.297	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	71433	20.354	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	72590	20.746	ug/l	98
85) n-Butylbenzene	12.335	91	113570	21.640	ug/l	100
86) Hexachloroethane	12.536	117	24600	23.425	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	70871	20.963	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9514	20.951	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	47156	20.281	ug/l	99
90) Hexachlorobutadiene	13.725	225	23496	21.075	ug/l	97
91) Naphthalene	13.774	128	138872	20.340	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	47596	20.402	ug/l	99

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

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