

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111122\
 Data File : VX032762.D
 Acq On : 11 Nov 2022 10:19
 Operator : JC/MD
 Sample : VX1111WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1111WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/14/2022
 Supervised By : Mahesh Dadoda 11/14/2022

Quant Time: Nov 14 05:09:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 05:24:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	11631	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	82369	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	89291	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	34130	30.417	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.400%			
60) 4-Bromofluorobenzene	11.079	95	50507	29.571	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.567%			
63) Toluene-d8	8.647	98	90728	30.108	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.367%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	21878	21.254	ug/l	99
3) Chloromethane	1.294	50	21771	21.313	ug/l	100
4) Vinyl Chloride	1.374	62	24412	21.136	ug/l	99
5) Bromomethane	1.611	94	21286	20.758	ug/l	98
6) Chloroethane	1.684	64	18947	20.768	ug/l	95
7) Trichlorofluoromethane	1.886	101	46798	21.018	ug/l	100
8) Diethyl Ether	2.130	74	15075	20.941	ug/l	76
9) 1,1,2-Trichlorotrifluo...	2.331	101	25818	21.799	ug/l	96
10) 1,1-Dichloroethene	2.319	96	23208	20.511	ug/l	86
11) Methyl Iodide	2.453	142	24754	20.350	ug/l	99
12) Methyl Acetate	2.703	43	33896	20.223	ug/l #	86
13) Acrolein	2.239	56	24123	107.930	ug/l	99
14) Acrylonitrile	3.068	53	62400	103.854	ug/l	99
15) Acetone	2.386	58	18229	116.673	ug/l	70
16) Carbon Disulfide	2.514	76	56433	20.035	ug/l	98
17) Allyl chloride	2.666	41	36812	20.476	ug/l	88
18) Methylene Chloride	2.788	84	25916	19.861	ug/l	89
19) trans-1,2-Dichloroethene	3.093	96	25141	20.171	ug/l #	81
20) Diisopropyl ether	3.757	45	79318	19.675	ug/l #	89
21) 1,1-Dichloroethane	3.611	63	45282	20.009	ug/l	94
22) cis-1,2-Dichloroethene	4.495	96	29220	20.079	ug/l #	85
23) tert-Butyl Alcohol	2.989	59	23469	120.298	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	79673	19.665	ug/l #	91
25) Chloroform	5.092	83	50698	20.086	ug/l	98
26) Cyclohexane	5.470	56	39996	20.238	ug/l #	85
29) 1,1-Dichloropropene	5.690	75	36520	19.991	ug/l	97
30) 2-Butanone	4.562	43	89922	105.568	ug/l	90
31) 2,2-Dichloropropane	4.477	77	38372	24.561	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	45398	19.756	ug/l	94
33) Carbon Tetrachloride	5.678	117	39996	19.823	ug/l	98
34) Benzene	6.037	78	102767	19.966	ug/l #	93
35) Methacrylonitrile	4.916	41	18645	19.327	ug/l	93
36) 1,2-Dichloroethane	6.086	62	42165	19.899	ug/l #	92
37) Trichloroethene	7.129	130	28884	20.059	ug/l	95
38) Methylcyclohexane	7.379	83	43286	21.148	ug/l	88
39) 1,2-Dichloropropane	7.427	63	25759	19.771	ug/l	94
40) Dibromomethane	7.580	93	19625	19.729	ug/l	98
41) Bromodichloromethane	7.824	83	37394	19.722	ug/l	99
42) Vinyl Acetate	3.721	43	325968	99.593	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.714	43	35730	20.852	ug/l	#	91
44) Isopropyl Acetate	6.342	43	56562	19.698	ug/l		95
45) 1,4-Dioxane	7.689	88	11660	422.749	ug/l	#	82
46) Methyl methacrylate	7.689	41	28558	19.756	ug/l		87
47) n-amyl Acetate	10.841	43	50264	19.690	ug/l		96
48) t-1,3-Dichloropropene	8.976	75	38376	19.729	ug/l		100
49) cis-1,3-Dichloropropene	8.366	75	42148	20.521	ug/l	#	87
50) 1,1,2-Trichloroethane	9.153	97	26882	19.655	ug/l		98
51) Ethyl methacrylate	9.116	69	39539	19.357	ug/l		81
52) 1,3-Dichloropropane	9.311	76	44513	19.907	ug/l		99
53) Dibromochloromethane	9.518	129	28899	19.429	ug/l		98
54) 1,2-Dibromoethane	9.610	107	29562	20.066	ug/l		98
55) 2-Chloroethyl vinyl ether	8.244	63	91715	92.912	ug/l	#	93
56) Bromoform	10.799	173	20472	19.224	ug/l		100
58) 4-Methyl-2-Pentanone	8.573	43	182218	104.248	ug/l	#	90
59) 2-Hexanone	9.433	43	139112	108.093	ug/l		91
61) Tetrachloroethene	9.275	164	25313	20.285	ug/l		95
62) Toluene	8.720	91	117642	20.259	ug/l		98
64) Chlorobenzene	10.079	112	72645	20.235	ug/l		100
65) 1,1,1,2-Tetrachloroethane	10.165	131	27494	20.104	ug/l		99
66) Ethyl Benzene	10.195	91	132728	20.375	ug/l		99
67) m/p-Xylenes	10.305	106	101931	40.214	ug/l		88
68) o-Xylene	10.640	106	49485	19.896	ug/l		88
69) Styrene	10.658	104	81201	19.638	ug/l		93
70) Isopropylbenzene	10.963	105	132088	19.888	ug/l		98
71) 1,1,2,2-Tetrachloroethane	11.213	83	41285	20.497	ug/l		98
72) 1,2,3-Trichloropropane	11.238	75	37129m	21.225	ug/l		
73) Bromobenzene	11.201	156	32929	20.409	ug/l		88
74) n-propylbenzene	11.305	91	155091	20.552	ug/l		96
75) 2-Chlorotoluene	11.366	91	91763	20.084	ug/l		93
76) 1,3,5-Trimethylbenzene	11.451	105	115183	20.515	ug/l		95
77) t-1,4-Dichloro-2-butene	11.018	75	10996	20.599	ug/l		92
78) 4-Chlorotoluene	11.457	91	108573	20.630	ug/l		92
79) tert-butylbenzene	11.713	119	112458	20.611	ug/l		94
80) 1,2,4-Trimethylbenzene	11.750	105	114736	20.900	ug/l		94
81) sec-Butylbenzene	11.890	105	138670	21.110	ug/l		94
82) p-Isopropyltoluene	12.012	119	116617	21.065	ug/l		96
83) 1,3-Dichlorobenzene	11.969	146	61060	20.627	ug/l		98
84) 1,4-Dichlorobenzene	12.042	146	61660	20.743	ug/l		99
85) n-Butylbenzene	12.335	91	98442	20.980	ug/l		95
86) Hexachloroethane	12.536	117	18093	19.908	ug/l		99
87) 1,2-Dichlorobenzene	12.335	146	59694	20.285	ug/l		97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8949	20.942	ug/l	#	79
89) 1,2,4-Trichlorobenzene	13.585	180	37048	20.500	ug/l		99
90) Hexachlorobutadiene	13.725	225	15805	21.728	ug/l		99
91) Naphthalene	13.774	128	121984	19.998	ug/l		99
92) 1,2,3-Trichlorobenzene	13.963	180	38059	20.938	ug/l		95

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

