

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121622\
 Data File : VX033453.D
 Acq On : 16 Dec 2022 11:53
 Operator : JC/MD
 Sample : VX1216WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1216WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/19/2022
 Supervised By : Mahesh Dadoda 12/19/2022

Quant Time: Dec 17 07:45:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:37:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	12153	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	84333	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	94650	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	33051	30.966	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 103.233%		
60) 4-Bromofluorobenzene	11.079	95	54594	31.143	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 103.800%		
63) Toluene-d8	8.647	98	93308	29.635	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 98.800%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	18687	21.054	ug/l	95
3) Chloromethane	1.294	50	18809	21.000	ug/l	96
4) Vinyl Chloride	1.374	62	20818	19.372	ug/l	99
5) Bromomethane	1.618	94	12489	15.892	ug/l	95
6) Chloroethane	1.691	64	13896	17.490	ug/l	100
7) Trichlorofluoromethane	1.892	101	31812	14.521	ug/l	98
8) Diethyl Ether	2.136	74	11215	16.391	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.331	101	24049	21.620	ug/l	97
10) 1,1-Dichloroethene	2.319	96	22184	21.182	ug/l	96
11) Methyl Iodide	2.453	142	25204	21.189	ug/l	98
12) Methyl Acetate	2.703	43	33665	22.794	ug/l	98
13) Acrolein	2.239	56	27778	118.888	ug/l	98
14) Acrylonitrile	3.068	53	59146	110.176	ug/l	97
15) Acetone	2.392	58	19282	104.494	ug/l	99
16) Carbon Disulfide	2.514	76	52645	18.658	ug/l	98
17) Allyl chloride	2.666	41	34562	20.105	ug/l	99
18) Methylene Chloride	2.794	84	24629	20.262	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	25025	20.511	ug/l	98
20) Diisopropyl ether	3.757	45	75986	21.005	ug/l	97
21) 1,1-Dichloroethane	3.611	63	44163	20.697	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	28920	20.420	ug/l	99
23) tert-Butyl Alcohol	3.001	59	22869	99.829	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	78726	20.774	ug/l	98
25) Chloroform	5.093	83	50326	20.726	ug/l	94
26) Cyclohexane	5.471	56	37246	19.957	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	35547	20.855	ug/l	100
30) 2-Butanone	4.562	43	85399	107.182	ug/l	99
31) 2,2-Dichloropropane	4.471	77	33684	18.805	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	44572	20.258	ug/l	99
33) Carbon Tetrachloride	5.678	117	39126	19.447	ug/l	96
34) Benzene	6.037	78	100968	20.671	ug/l	99
35) Methacrylonitrile	4.922	41	17811	21.813	ug/l	98
36) 1,2-Dichloroethane	6.086	62	40609	21.629	ug/l	99
37) Trichloroethene	7.123	130	28903	20.839	ug/l	98
38) Methylcyclohexane	7.379	83	40787	20.308	ug/l	99
39) 1,2-Dichloropropane	7.427	63	25786	21.172	ug/l	97
40) Dibromomethane	7.580	93	19586	21.017	ug/l	99
41) Bromodichloromethane	7.818	83	38171	19.988	ug/l	97
42) Vinyl Acetate	3.721	43	296272	107.403	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	33312	23.253	ug/l	99
44) Isopropyl Acetate	6.336	43	50442	20.741	ug/l	99
45) 1,4-Dioxane	7.696	88	13242m	464.878	ug/l	
46) Methyl methacrylate	7.690	41	26740	22.073	ug/l	96
47) n-amyl Acetate	10.841	43	44526	21.816	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	37116	19.377	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	41423	20.148	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	28263	21.931	ug/l	99
51) Ethyl methacrylate	9.116	69	39686	21.552	ug/l	97
52) 1,3-Dichloropropane	9.305	76	45495	21.619	ug/l	98
53) Dibromochloromethane	9.519	129	30710	19.829	ug/l	97
54) 1,2-Dibromoethane	9.610	107	30298	21.478	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	87244	100.913	ug/l	99
56) Bromoform	10.799	173	21899	19.589	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	169799	110.938	ug/l	100
59) 2-Hexanone	9.427	43	130352	111.374	ug/l	99
61) Tetrachloroethene	9.275	164	25696	20.274	ug/l	97
62) Toluene	8.720	91	117422	20.438	ug/l	100
64) Chlorobenzene	10.079	112	75905	20.885	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.159	131	28360	19.760	ug/l	96
66) Ethyl Benzene	10.195	91	133949	20.691	ug/l	98
67) m/p-Xylenes	10.299	106	105923	41.859	ug/l	97
68) o-Xylene	10.640	106	50441	20.458	ug/l	99
69) Styrene	10.653	104	85127	20.783	ug/l	99
70) Isopropylbenzene	10.963	105	137940	21.084	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	43249	22.352	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	38470m	22.326	ug/l	
73) Bromobenzene	11.201	156	34570	21.356	ug/l	98
74) n-propylbenzene	11.305	91	160636	21.426	ug/l	100
75) 2-Chlorotoluene	11.366	91	97549	21.645	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	120901	21.980	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	10688	18.655	ug/l	96
78) 4-Chlorotoluene	11.457	91	112202	21.726	ug/l	98
79) tert-butylbenzene	11.713	119	114670	21.030	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	117235	21.683	ug/l	98
81) sec-Butylbenzene	11.890	105	142647	21.768	ug/l	100
82) p-Isopropyltoluene	12.012	119	119541	21.390	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	65015	21.821	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	64939	21.654	ug/l	99
85) n-Butylbenzene	12.335	91	100341	21.510	ug/l	98
86) Hexachloroethane	12.536	117	19268	19.425	ug/l	92
87) 1,2-Dichlorobenzene	12.335	146	64633	22.015	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8632	20.476	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	38409	21.179	ug/l	98
90) Hexachlorobutadiene	13.725	225	17168	22.310	ug/l	99
91) Naphthalene	13.774	128	128331	21.864	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	40245	22.159	ug/l	97

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

