

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042922\
 Data File : VX028417.D
 Acq On : 29 Apr 2022 12:43
 Operator : JC/MD
 Sample : VX0429WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0429WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2022
 Supervised By : Mahesh Dadoda 05/02/2022

Quant Time: Apr 29 15:04:40 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 06:09:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	67150	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	363742	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	337053	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	134589	31.516	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.067%			
60) 4-Bromofluorobenzene	11.079	95	158805	30.297	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.000%			
63) Toluene-d8	8.647	98	439687	30.794	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.633%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	42353	17.826	ug/l	95
3) Chloromethane	1.295	50	37561	20.054	ug/l	99
4) Vinyl Chloride	1.374	62	46522	19.539	ug/l	96
5) Bromomethane	1.605	94	39573	20.174	ug/l	97
6) Chloroethane	1.685	64	35396	19.304	ug/l	97
7) Trichlorofluoromethane	1.886	101	100007	19.209	ug/l	100
8) Diethyl Ether	2.136	74	40738	19.840	ug/l	80
9) 1,1,2-Trichlorotrifluo...	2.331	101	57253	18.700	ug/l	95
10) 1,1-Dichloroethene	2.319	96	46726	18.457	ug/l	100
11) Methyl Iodide	2.453	142	55312	16.268	ug/l	99
12) Methyl Acetate	2.703	43	77650	19.214	ug/l	99
13) Acrolein	2.233	56	74616	90.988	ug/l	100
14) Acrylonitrile	3.063	53	179394	97.501	ug/l	99
15) Acetone	2.380	58	50001	95.954	ug/l	97
16) Carbon Disulfide	2.514	76	56992	19.048	ug/l	98
17) Allyl chloride	2.666	41	72142	18.965	ug/l	91
18) Methylene Chloride	2.788	84	66570	20.466	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	52249	18.683	ug/l	90
20) Diisopropyl ether	3.757	45	180970	19.140	ug/l	95
21) 1,1-Dichloroethane	3.611	63	106209	19.006	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	72741	18.476	ug/l	97
23) tert-Butyl Alcohol	2.959	59	89110	89.675	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	211797	19.027	ug/l	96
25) Chloroform	5.093	83	125208	19.068	ug/l	98
26) Cyclohexane	5.465	56	68254	19.319	ug/l #	92
29) 1,1-Dichloropropene	5.690	75	75202	19.438	ug/l	97
30) 2-Butanone	4.556	43	245157	100.540	ug/l	93
31) 2,2-Dichloropropane	4.477	77	89092	18.750	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	105383	19.372	ug/l	99
33) Carbon Tetrachloride	5.678	117	88458	19.109	ug/l	96
34) Benzene	6.038	78	239534	19.439	ug/l	97
35) Methacrylonitrile	4.922	41	47867	19.491	ug/l	88
36) 1,2-Dichloroethane	6.086	62	90761	19.764	ug/l	97
37) Trichloroethene	7.129	130	72385	19.177	ug/l	99
38) Methylcyclohexane	7.379	83	78142	19.722	ug/l	95
39) 1,2-Dichloropropane	7.428	63	62421	19.271	ug/l	98
40) Dibromomethane	7.580	93	49863	20.070	ug/l	98
41) Bromodichloromethane	7.824	83	92881	19.700	ug/l	100
42) Vinyl Acetate	3.721	43	771040	102.031	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	86768	19.015	ug/l	96
44) Isopropyl Acetate	6.336	43	143133	19.455	ug/l	99
45) 1,4-Dioxane	7.665	88	38015	396.797	ug/l	90
46) Methyl methacrylate	7.690	41	66784	19.862	ug/l	87
47) n-amyl Acetate	10.842	43	120524	18.922	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	94570	19.098	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	103140	19.384	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	79156	20.260	ug/l	97
51) Ethyl methacrylate	9.116	69	108567	19.419	ug/l	93
52) 1,3-Dichloropropane	9.311	76	123019	20.126	ug/l	100
53) Dibromochloromethane	9.519	129	78080	19.534	ug/l	100
54) 1,2-Dibromoethane	9.610	107	81086	19.950	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	286050	97.454	ug/l	98
56) Bromoform	10.799	173	55939	18.155	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	495163	100.988	ug/l	94
59) 2-Hexanone	9.427	43	378763	99.811	ug/l	95
61) Tetrachloroethene	9.275	164	70995	19.095	ug/l	95
62) Toluene	8.720	91	284687	19.475	ug/l	98
64) Chlorobenzene	10.080	112	201660	19.554	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	77326	19.197	ug/l	97
66) Ethyl Benzene	10.195	91	333209	19.334	ug/l	99
67) m/p-Xylenes	10.299	106	266791	38.617	ug/l	97
68) o-Xylene	10.640	106	136226	19.402	ug/l	96
69) Styrene	10.659	104	226819	19.342	ug/l	97
70) Isopropylbenzene	10.964	105	359505	19.680	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	124137	20.015	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	108111m	19.590	ug/l	
73) Bromobenzene	11.201	156	91876	18.653	ug/l	94
74) n-propylbenzene	11.305	91	402493	19.761	ug/l	99
75) 2-Chlorotoluene	11.366	91	245507	19.458	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	301298	19.670	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	29305	17.537	ug/l	88
78) 4-Chlorotoluene	11.457	91	280605	19.662	ug/l	96
79) tert-butylbenzene	11.713	119	301149	19.379	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	301417	19.604	ug/l	97
81) sec-Butylbenzene	11.890	105	363403	19.729	ug/l	99
82) p-Isopropyltoluene	12.012	119	313658	19.617	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	178861	19.361	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	179958	19.160	ug/l	98
85) n-Butylbenzene	12.335	91	249131	19.307	ug/l	100
86) Hexachloroethane	12.543	117	47988	19.074	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	180347	19.384	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	24973	18.851	ug/l	92
89) 1,2,4-Trichlorobenzene	13.591	180	111771	19.233	ug/l	98
90) Hexachlorobutadiene	13.725	225	45993	18.668	ug/l	97
91) Naphthalene	13.780	128	389231	19.166	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	109256	18.755	ug/l	98

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

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