

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080321\
 Data File : VX023520.D
 Acq On : 03 Aug 2021 10:49
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 8/6/2021 5:39:18 PM

Quant Time: Aug 03 11:39:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 03 11:36:59 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	39836	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	217779	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	202044	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	90156	29.763	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.200%	
60) 4-Bromofluorobenzene	11.085	95	98965	30.320	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.067%	
63) Toluene-d8	8.653	98	271888	29.821	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.400%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.173	85	115973	48.964	ug/l	98
3) Chloromethane	1.294	50	130586	48.869	ug/l	98
4) Vinyl Chloride	1.374	62	129995	48.820	ug/l	100
5) Bromomethane	1.599	94	73816	45.802	ug/l	99
6) Chloroethane	1.679	64	82681	49.976	ug/l	96
7) Trichlorofluoromethane	1.886	101	210168	49.328	ug/l	96
8) Diethyl Ether	2.142	74	75387	49.316	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	116646	49.064	ug/l	99
10) 1,1-Dichloroethene	2.319	96	115052	50.140	ug/l	91
11) Methyl Iodide	2.453	142	170583	52.964	ug/l	98
12) Methyl Acetate	2.709	43	168973	48.973	ug/l	99
13) Acrolein	2.239	56	89126	226.987	ug/l	98
14) Acrylonitrile	3.075	53	379341	246.147	ug/l	99
15) Acetone	2.386	58	114048	253.321	ug/l	95
16) Carbon Disulfide	2.514	76	282558	50.897	ug/l	100
17) Allyl chloride	2.666	41	209860	49.911	ug/l	99
18) Methylene Chloride	2.794	84	131677	48.464	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	122073	49.793	ug/l	99
20) Diisopropyl ether	3.770	45	418932	49.439	ug/l	99
21) 1,1-Dichloroethane	3.617	63	228619	49.707	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	141838	49.087	ug/l	98
23) tert-Butyl Alcohol	2.977	59	173090	253.265	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	401440	49.182	ug/l	100
25) Chloroform	5.105	83	235273	49.513	ug/l	98
26) Cyclohexane	5.477	56	209099	49.212	ug/l #	98
29) 1,1-Dichloropropene	5.702	75	172613	51.303	ug/l	99
30) 2-Butanone	4.568	43	575460	255.315	ug/l	100
31) 2,2-Dichloropropane	4.483	77	191601	51.606	ug/l	97
32) 1,1,1-Trichloroethane	5.391	97	208101	51.709	ug/l	99
33) Carbon Tetrachloride	5.684	117	179844	51.381	ug/l	98
34) Benzene	6.044	78	511742	50.594	ug/l	97
35) Methacrylonitrile	4.928	41	112724	50.168	ug/l	97
36) 1,2-Dichloroethane	6.098	62	193799	50.566	ug/l	100
37) Trichloroethene	7.129	130	139236	50.940	ug/l	96
38) Methylcyclohexane	7.385	83	217254	50.676	ug/l	100
39) 1,2-Dichloropropane	7.440	63	135238	51.113	ug/l	96
40) Dibromomethane	7.586	93	94028	51.006	ug/l	98
41) Bromodichloromethane	7.830	83	175967	52.715	ug/l	99
42) Vinyl Acetate	3.733	43	1880733	256.572	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	213889	50.410	ug/l	100
44) Isopropyl Acetate	6.348	43	334674	50.003	ug/l	100
45) 1,4-Dioxane	7.665	88	69820	1014.848	ug/l	96
46) Methyl methacrylate	7.696	41	162516	50.395	ug/l	98
47) n-amyl Acetate	10.848	43	292588	52.039	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	204214	52.379	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	216415	51.911	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	139612	52.044	ug/l	96
51) Ethyl methacrylate	9.122	69	221452	51.457	ug/l	98
52) 1,3-Dichloropropane	9.311	76	226561	50.952	ug/l	99
53) Dibromochloromethane	9.525	129	142093	53.855	ug/l	98
54) 1,2-Dibromoethane	9.616	107	146081	51.195	ug/l	100
55) 2-Chloroethyl vinyl ether	8.251	63	568075	266.503	ug/l	100
56) Bromoform	10.805	173	99872	53.337	ug/l	99
58) 4-Methyl-2-Pentanone	8.580	43	1108666	256.971	ug/l	100
59) 2-Hexanone	9.433	43	863903	258.172	ug/l	100
61) Tetrachloroethene	9.275	164	136384	50.541	ug/l	97
62) Toluene	8.720	91	572580	50.254	ug/l	99
64) Chlorobenzene	10.086	112	359895	50.630	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	133496	52.210	ug/l	99
66) Ethyl Benzene	10.195	91	641045	51.031	ug/l	99
67) m/p-Xylenes	10.305	106	491864	102.349	ug/l	100
68) o-Xylene	10.646	106	243471	51.055	ug/l	99
69) Styrene	10.659	104	403221	52.161	ug/l	100
70) Isopropylbenzene	10.963	105	635245	51.304	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	202157	50.741	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	190804m	51.221	ug/l	
73) Bromobenzene	11.201	156	155672	50.754	ug/l	96
74) n-propylbenzene	11.305	91	742982	51.871	ug/l	100
75) 2-Chlorotoluene	11.366	91	442011	51.529	ug/l	99
76) 1,3,5-Trimethylbenzene	11.457	105	532299	51.583	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	71522	54.733	ug/l	93
78) 4-Chlorotoluene	11.457	91	497657	51.659	ug/l	100
79) tert-butylbenzene	11.719	119	521819	51.958	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	529855	51.905	ug/l	99
81) sec-Butylbenzene	11.896	105	667519	52.047	ug/l	100
82) p-Isopropyltoluene	12.012	119	549293	51.952	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	282372	51.683	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	279538	51.727	ug/l	99
85) n-Butylbenzene	12.335	91	486241	51.954	ug/l	100
86) Hexachloroethane	12.542	117	89867	53.475	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	269428	51.305	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	45839	53.608	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	170009	52.330	ug/l	99
90) Hexachlorobutadiene	13.725	225	74771	51.421	ug/l	100
91) Naphthalene	13.780	128	596303	52.960	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	169788	51.588	ug/l	99

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

