

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072921\
 Data File : VX023494.D
 Acq On : 28 Jul 2021 15:48
 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
 7/30/2021 6:17:23 PM

Quant Time: Jul 29 01:22:29 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X072921W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 29 01:17:39 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	38616	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	217183	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	200721	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	87806	29.754	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.167%		
60) 4-Bromofluorobenzene	11.085	95	99810	30.270	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.900%		
63) Toluene-d8	8.653	98	269720	29.387	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.967%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	112912	50.163	ug/l	97
3) Chloromethane	1.294	50	128465	47.498	ug/l	97
4) Vinyl Chloride	1.374	62	127507	46.068	ug/l	99
5) Bromomethane	1.599	94	73270	46.131	ug/l	96
6) Chloroethane	1.679	64	79080	44.520	ug/l	95
7) Trichlorofluoromethane	1.886	101	199947	50.662	ug/l	97
8) Diethyl Ether	2.136	74	73803	44.767	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	111776	49.373	ug/l	99
10) 1,1-Dichloroethene	2.319	96	109945	48.667	ug/l	93
11) Methyl Iodide	2.453	142	162736	68.969	ug/l	96
12) Methyl Acetate	2.709	43	165111	52.101	ug/l	100
13) Acrolein	2.239	56	88918	190.701	ug/l	98
14) Acrylonitrile	3.069	53	374179	284.313	ug/l	99
15) Acetone	2.386	58	103231	262.146	ug/l	97
16) Carbon Disulfide	2.514	76	263883	44.082	ug/l	99
17) Allyl chloride	2.666	41	203145	50.622	ug/l	99
18) Methylene Chloride	2.794	84	127958	47.063	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	116362	47.517	ug/l	100
20) Diisopropyl ether	3.770	45	405651	52.725	ug/l	98
21) 1,1-Dichloroethane	3.617	63	219703	48.801	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	138668	47.867	ug/l	98
23) tert-Butyl Alcohol	2.977	59	170008	270.887	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	390545	52.502	ug/l	99
25) Chloroform	5.105	83	227174	49.372	ug/l	98
26) Cyclohexane	5.477	56	202600	53.271	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	167361	49.573	ug/l	99
30) 2-Butanone	4.568	43	548720	279.640	ug/l	100
31) 2,2-Dichloropropane	4.483	77	182243	46.754	ug/l	96
32) 1,1,1-Trichloroethane	5.391	97	196328	49.330	ug/l	99
33) Carbon Tetrachloride	5.684	117	173545	51.743	ug/l	99
34) Benzene	6.044	78	492912	47.952	ug/l	99
35) Methacrylonitrile	4.928	41	109667	53.105	ug/l	97
36) 1,2-Dichloroethane	6.092	62	187524	52.422	ug/l	100
37) Trichloroethene	7.129	130	135034	51.771	ug/l	99
38) Methylcyclohexane	7.385	83	212624	54.572	ug/l	99
39) 1,2-Dichloropropane	7.434	63	129813	50.403	ug/l	99
40) Dibromomethane	7.586	93	90940	50.931	ug/l	98
41) Bromodichloromethane	7.830	83	164235	46.994	ug/l	98
42) Vinyl Acetate	3.733	43	1819251	254.459	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	206703	52.720	ug/l	99
44) Isopropyl Acetate	6.348	43	329453	51.300	ug/l	100
45) 1,4-Dioxane	7.665	88	70453	1193.579	ug/l	96
46) Methyl methacrylate	7.696	41	160353	53.431	ug/l	98
47) n-amyl Acetate	10.848	43	297958	55.782	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	195199	49.592	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	208349	49.473	ug/l	97
50) 1,1,2-Trichloroethane	9.159	97	132934	51.808	ug/l	98
51) Ethyl methacrylate	9.122	69	217336	53.001	ug/l	97
52) 1,3-Dichloropropane	9.311	76	217412	49.003	ug/l	99
53) Dibromochloromethane	9.525	129	132658	52.493	ug/l	98
54) 1,2-Dibromoethane	9.616	107	140808	53.468	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	532383	246.351	ug/l	99
56) Bromoform	10.805	173	98473	60.424	ug/l	100
58) 4-Methyl-2-Pentanone	8.580	43	1091388	267.044	ug/l	99
59) 2-Hexanone	9.433	43	863743	282.425	ug/l	99
61) Tetrachloroethene	9.275	164	131625	56.324	ug/l	99
62) Toluene	8.720	91	557994	48.883	ug/l	99
64) Chlorobenzene	10.086	112	348275	50.667	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	126434	50.828	ug/l	100
66) Ethyl Benzene	10.195	91	623478	49.749	ug/l	100
67) m/p-Xylenes	10.305	106	480015	100.773	ug/l	100
68) o-Xylene	10.646	106	237833	51.537	ug/l	99
69) Styrene	10.659	104	394776	51.065	ug/l	99
70) Isopropylbenzene	10.963	105	623536	51.248	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	202179	50.561	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	193581m	53.705	ug/l	
73) Bromobenzene	11.201	156	155153	58.607	ug/l	97
74) n-propylbenzene	11.305	91	724109	51.115	ug/l	99
75) 2-Chlorotoluene	11.366	91	433241	51.612	ug/l	99
76) 1,3,5-Trimethylbenzene	11.457	105	515258	50.772	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	69294	49.876	ug/l	92
78) 4-Chlorotoluene	11.457	91	485696	50.450	ug/l	100
79) tert-butylbenzene	11.719	119	511062	52.592	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	513323	50.655	ug/l	100
81) sec-Butylbenzene	11.896	105	653192	53.300	ug/l	100
82) p-Isopropyltoluene	12.012	119	535883	52.343	ug/l	100
83) 1,3-Dichlorobenzene	11.975	146	276639	55.944	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	273363	55.278	ug/l	99
85) n-Butylbenzene	12.335	91	475837	50.983	ug/l	99
86) Hexachloroethane	12.542	117	88202	52.732	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	262599	54.682	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	43738	49.959	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	162150	54.944	ug/l	99
90) Hexachlorobutadiene	13.725	225	71674	61.111	ug/l	99
91) Naphthalene	13.780	128	575899	50.943	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	164364	56.307	ug/l	99

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

