

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072921\
 Data File : VX023493.D
 Acq On : 28 Jul 2021 15:24
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 7/30/2021 6:17:21 PM

Quant Time: Jul 29 01:22:09 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	4.909	128	38847	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	215359	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	192845	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	87908	29.611	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.700%		
60) 4-Bromofluorobenzene	11.085	95	92630	29.240	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.467%		
63) Toluene-d8	8.653	98	265007	30.053	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.167%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.172	85	40316	17.804	ug/l	100
3) Chloromethane	1.294	50	45692	16.794	ug/l	100
4) Vinyl Chloride	1.373	62	44870	16.115	ug/l	100
5) Bromomethane	1.605	94	31044	19.429	ug/l	100
6) Chloroethane	1.684	64	28327	15.853	ug/l	100
7) Trichlorofluoromethane	1.886	101	70589	17.779	ug/l	100
8) Diethyl Ether	2.142	74	25662	15.473	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	40157	17.632	ug/l	100
10) 1,1-Dichloroethene	2.318	96	38077	16.755	ug/l	100
11) Methyl Iodide	2.453	142	50293	21.188	ug/l	100
12) Methyl Acetate	2.709	43	59226	18.578	ug/l	100
13) Acrolein	2.239	56	32414	69.105	ug/l	100
14) Acrylonitrile	3.074	53	133090	100.525	ug/l	100
15) Acetone	2.385	58	40507	102.252	ug/l	100
16) Carbon Disulfide	2.513	76	85561	14.208	ug/l	100
17) Allyl chloride	2.666	41	70155	17.378	ug/l	100
18) Methylene Chloride	2.794	84	46983	17.178	ug/l	100
19) trans-1,2-Dichloroethene	3.099	96	41273	16.754	ug/l	100
20) Diisopropyl ether	3.769	45	144088	18.617	ug/l	100
21) 1,1-Dichloroethane	3.617	63	77351	17.079	ug/l	100
22) cis-1,2-Dichloroethene	4.495	96	49559	17.006	ug/l	100
23) tert-Butyl Alcohol	2.977	59	58881	93.262	ug/l	100
24) Methyl tert-Butyl Ether	3.123	73	135148	18.060	ug/l	100
25) Chloroform	5.104	83	79948	17.272	ug/l	100
26) Cyclohexane	5.482	56	71858	18.782	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	59542	17.786	ug/l	100
30) 2-Butanone	4.568	43	197214	101.356	ug/l	100
31) 2,2-Dichloropropane	4.483	77	62716	16.226	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	68095	17.255	ug/l	100
33) Carbon Tetrachloride	5.690	117	57448	17.274	ug/l	100
34) Benzene	6.049	78	175019	17.171	ug/l	100
35) Methacrylonitrile	4.934	41	38417	18.761	ug/l	100
36) 1,2-Dichloroethane	6.098	62	66077	18.628	ug/l	100
37) Trichloroethene	7.129	130	47172	18.238	ug/l	100
38) Methylcyclohexane	7.385	83	72968	18.886	ug/l	100
39) 1,2-Dichloropropane	7.433	63	45066	17.646	ug/l	100
40) Dibromomethane	7.586	93	30923	17.465	ug/l	100
41) Bromodichloromethane	7.830	83	53807	15.527	ug/l	100
42) Vinyl Acetate	3.733	43	630451	88.928	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.726	43	73055	18.791	ug/l	100
44) Isopropyl Acetate	6.348	43	113922	17.889	ug/l	100
45) 1,4-Dioxane	7.665	88	24672	421.521	ug/l	100
46) Methyl methacrylate	7.702	41	54594	18.345	ug/l	100
47) n-amyl Acetate	10.847	43	94311	17.806	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	62094	15.909	ug/l	100
49) cis-1,3-Dichloropropene	8.372	75	67258	16.106	ug/l	100
50) 1,1,2-Trichloroethane	9.159	97	46264	18.183	ug/l	100
51) Ethyl methacrylate	9.122	69	71664	17.624	ug/l	100
52) 1,3-Dichloropropane	9.311	76	77646	17.649	ug/l	100
53) Dibromochloromethane	9.524	129	40781	16.274	ug/l	100
54) 1,2-Dibromoethane	9.616	107	47792	18.301	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	186629	87.091	ug/l	100
56) Bromoform	10.805	173	28617	17.708	ug/l	100
58) 4-Methyl-2-Pentanone	8.579	43	377562	96.156	ug/l	100
59) 2-Hexanone	9.433	43	295489	100.565	ug/l	100
61) Tetrachloroethene	9.274	164	45750	20.376	ug/l	100
62) Toluene	8.720	91	192078	17.514	ug/l	100
64) Chlorobenzene	10.085	112	119495	18.094	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	41973	17.563	ug/l	100
66) Ethyl Benzene	10.195	91	209267	17.380	ug/l	100
67) m/p-Xylenes	10.305	106	158616	34.659	ug/l	100
68) o-Xylene	10.646	106	78219	17.642	ug/l	100
69) Styrene	10.658	104	126723	17.061	ug/l	100
70) Isopropylbenzene	10.963	105	206952	17.704	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	68123	17.732	ug/l	100
72) 1,2,3-Trichloropropane	11.244	75	64005m	18.482	ug/l	
73) Bromobenzene	11.201	156	51276	20.160	ug/l	100
74) n-propylbenzene	11.305	91	235578	17.309	ug/l	100
75) 2-Chlorotoluene	11.366	91	141611	17.559	ug/l	100
76) 1,3,5-Trimethylbenzene	11.457	105	171189	17.557	ug/l	100
77) t-1,4-Dichloro-2-butene	11.024	75	19842	14.865	ug/l	100
78) 4-Chlorotoluene	11.457	91	158104	17.093	ug/l	100
79) tert-butylbenzene	11.719	119	164119	17.579	ug/l	100
80) 1,2,4-Trimethylbenzene	11.756	105	168868	17.345	ug/l	100
81) sec-Butylbenzene	11.896	105	210700	17.895	ug/l	100
82) p-Isopropyltoluene	12.012	119	174189	17.709	ug/l	100
83) 1,3-Dichlorobenzene	11.975	146	88632	18.656	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	89193	18.773	ug/l	100
85) n-Butylbenzene	12.335	91	149273	16.647	ug/l	100
86) Hexachloroethane	12.542	117	25053	15.590	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	87852	19.041	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	13269	15.775	ug/l	100
89) 1,2,4-Trichlorobenzene	13.591	180	52069	18.364	ug/l	100
90) Hexachlorobutadiene	13.725	225	23863	21.177	ug/l	100
91) Naphthalene	13.780	128	186552	17.176	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	52864	18.849	ug/l	100

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

