

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019068.D
 Acq On : 23 Oct 2020 09:53
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 10/26/2020 11:20:32 AM

Quant Time: Oct 23 11:55:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 23 11:41:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	49734	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.82	114	287295	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.09	117	261298	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	103861	32.33	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.77%
60) 4-Bromofluorobenzene	11.12	95	114047	28.34	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.47%
63) Toluene-d8	8.70	98	347862	30.16	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	12006	5.085 ug/l	98
3) Chloromethane	1.31	50	11409	4.497 ug/l	98
4) Vinyl Chloride	1.39	62	14335	4.492 ug/l	98
5) Bromomethane	1.63	94	11183	5.619 ug/l	96
6) Chloroethane	1.72	64	9696	4.406 ug/l	97
7) Trichlorofluoromethane	1.92	101	25248	4.965 ug/l	99
8) Diethyl Ether	2.17	74	8852	4.438 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	11887	4.307 ug/l	98
10) 1,1-Dichloroethene	2.36	96	11822	4.126 ug/l	92
11) Methyl Iodide	2.49	142	6191	1.913 ug/l	94
12) Methyl Acetate	2.75	43	11095	3.933 ug/l	99
13) Acrolein	2.28	56	6388	12.854 ug/l	99
14) Acrylonitrile	3.11	53	27030	20.638 ug/l	99
15) Acetone	2.42	58	7842	18.811 ug/l	95
16) Carbon Disulfide	2.55	76	33376	4.659 ug/l	99
17) Allyl chloride	2.71	41	14442	3.914 ug/l	99
18) Methylene Chloride	2.83	84	13625	4.632 ug/l	94
19) trans-1,2-Dichloroethene	3.14	96	13698	4.630 ug/l	99
20) Diisopropyl ether	3.82	45	30146	4.344 ug/l	89
21) 1,1-Dichloroethane	3.67	63	21991	4.578 ug/l	100
22) cis-1,2-Dichloroethene	4.56	96	16180	4.811 ug/l	99
23) tert-Butyl Alcohol	3.01	59	12804m	18.073 ug/l	
24) Methyl tert-Butyl Ether	3.16	73	36875	4.580 ug/l	96
25) Chloroform	5.17	83	24086	4.696 ug/l	96
26) Cyclohexane	5.54	56	17708	4.618 ug/l	# 94
29) 1,1-Dichloropropene	5.76	75	18743	4.587 ug/l	98
30) 2-Butanone	4.64	43	35139	17.862 ug/l	99
31) 2,2-Dichloropropane	4.54	77	21565	4.497 ug/l	97
32) 1,1,1-Trichloroethane	5.46	97	22066	4.449 ug/l	99
33) Carbon Tetrachloride	5.75	117	18554	4.131 ug/l	98
34) Benzene	6.11	78	54645	4.514 ug/l	98
35) Methacrylonitrile	4.99	41	7349	3.563 ug/l	98
36) 1,2-Dichloroethane	6.16	62	19323	4.823 ug/l	100
37) Trichloroethene	7.18	130	15597	4.420 ug/l	97
38) Methylcyclohexane	7.43	83	21101	4.544 ug/l	98
39) 1,2-Dichloropropane	7.49	63	12481	4.262 ug/l	98
40) Dibromomethane	7.63	93	9734	4.488 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	18464	4.210	ug/l	97
42) Vinyl Acetate	3.78	43	138906	19.404	ug/l	100
43) Ethyl Acetate	4.79	43	15773	3.842	ug/l	98
44) Isopropyl Acetate	6.40	43	25651	3.888	ug/l	98
45) 1,4-Dioxane	7.73	88	4963	70.967	ug/l #	91
46) Methyl methacrylate	7.74	41	11591	3.765	ug/l	96
47) n-amyl Acetate	10.88	43	18812	3.474	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	20714	4.159	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	22261	4.202	ug/l	97
50) 1,1,2-Trichloroethane	9.20	97	13801	4.464	ug/l	99
51) Ethyl methacrylate	9.16	69	19443	4.031	ug/l	96
52) 1,3-Dichloropropane	9.35	76	23465	4.586	ug/l	100
53) Dibromochloromethane	9.56	129	14353	3.980	ug/l	100
54) 1,2-Dibromoethane	9.65	107	15467	4.551	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	42301	16.223	ug/l	99
56) Bromoform	10.84	173	9235	3.348	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	71984	17.950	ug/l	99
59) 2-Hexanone	9.47	43	52912	17.321	ug/l	99
61) Tetrachloroethene	9.32	164	14953	4.717	ug/l	94
62) Toluene	8.76	91	65111	4.709	ug/l	99
64) Chlorobenzene	10.12	112	39191	4.509	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.20	131	13482	4.035	ug/l	98
66) Ethyl Benzene	10.23	91	70164	4.616	ug/l	99
67) m/p-Xylenes	10.34	106	50802	8.563	ug/l	97
68) o-Xylene	10.68	106	24321	4.343	ug/l	99
69) Styrene	10.70	104	39069	4.075	ug/l	99
70) Isopropylbenzene	11.00	105	65750	4.419	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	17957	3.876	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	16574m	3.851	ug/l	
73) Bromobenzene	11.24	156	15754	4.143	ug/l	98
74) n-propylbenzene	11.34	91	74310	4.379	ug/l	100
75) 2-Chlorotoluene	11.40	91	42577	4.360	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	52135	4.204	ug/l	98
77) t-1,4-Dichloro-2-butene	11.05	75	5927	3.254	ug/l	95
78) 4-Chlorotoluene	11.49	91	49163	4.271	ug/l	99
79) tert-butylbenzene	11.76	119	50739	4.053	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	52443	4.230	ug/l	99
81) sec-Butylbenzene	11.93	105	60544	4.189	ug/l	100
82) p-Isopropyltoluene	12.05	119	55300	4.124	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	28262	4.151	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	28115	4.095	ug/l	97
85) n-Butylbenzene	12.37	91	48787	4.051	ug/l	99
86) Hexachloroethane	12.58	117	7552	3.390	ug/l	99
87) 1,2-Dichlorobenzene	12.37	146	26513	4.032	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	3698	3.339	ug/l	96
89) 1,2,4-Trichlorobenzene	13.63	180	17996	3.744	ug/l	97
90) Hexachlorobutadiene	13.76	225	7903	3.940	ug/l	99
91) Naphthalene	13.82	128	57824	3.700	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	17995	3.854	ug/l	98

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

