

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072419\
 Data File : VX011055.D
 Acq On : 24 Jul 2019 12:15
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 3:54:26 PM

Quant Time: Jul 25 03:28:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	41401	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	227514	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	208047	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	82951	29.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.50%
60) 4-Bromofluorobenzene	11.13	95	103287	30.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.53%
63) Toluene-d8	8.71	98	272724	29.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	51439	18.793	ug/l 99
3) Chloromethane	1.32	50	42601	17.699	ug/l 98
4) Vinyl Chloride	1.41	62	44172	17.598	ug/l 98
5) Bromomethane	1.64	94	28019	20.279	ug/l 96
6) Chloroethane	1.73	64	28107	18.928	ug/l 99
7) Trichlorofluoromethane	1.93	101	76512	18.355	ug/l 95
8) Diethyl Ether	2.19	74	26139	19.095	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	45027	19.543	ug/l 98
10) 1,1-Dichloroethene	2.37	96	42037	18.155	ug/l 99
11) Methyl Iodide	2.51	142	55073	17.712	ug/l 97
12) Methyl Acetate	2.77	43	60692	18.663	ug/l 99
13) Acrolein	2.29	56	32715	83.903	ug/l 99
14) Acrylonitrile	3.14	53	119083	93.562	ug/l 99
15) Acetone	2.44	58	41091	115.939	ug/l 99
16) Carbon Disulfide	2.57	76	93710	15.751	ug/l 97
17) Allyl chloride	2.73	41	62668	18.696	ug/l 98
18) Methylene Chloride	2.85	84	48089	18.652	ug/l 97
19) trans-1,2-Dichloroethene	3.17	96	44477	18.184	ug/l 97
20) Diisopropyl ether	3.85	45	134624	19.024	ug/l 95
21) 1,1-Dichloroethane	3.70	63	76026	18.669	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	51798	18.413	ug/l 94
23) tert-Butyl Alcohol	3.04	59	56065	84.368	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	142188	19.130	ug/l 100
25) Chloroform	5.20	83	84396	18.922	ug/l 97
26) Cyclohexane	5.58	56	64497	17.308	ug/l # 96
29) 1,1-Dichloropropene	5.79	75	59472	18.588	ug/l 98
30) 2-Butanone	4.67	43	171225	99.141	ug/l 99
31) 2,2-Dichloropropane	4.58	77	65033	23.285	ug/l 97
32) 1,1,1-Trichloroethane	5.49	97	71615	18.561	ug/l 98
33) Carbon Tetrachloride	5.78	117	62400	18.601	ug/l 98
34) Benzene	6.14	78	182381	19.003	ug/l 99
35) Methacrylonitrile	5.04	41	33095	18.407	ug/l 95
36) 1,2-Dichloroethane	6.19	62	63606	18.535	ug/l 100
37) Trichloroethene	7.21	130	52868	18.815	ug/l 96
38) Methylcyclohexane	7.46	83	73806	18.278	ug/l 99
39) 1,2-Dichloropropane	7.51	63	45474	18.956	ug/l 99
40) Dibromomethane	7.66	93	34171	19.367	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	61170	19.047	ug/l	97
42) Vinyl Acetate	3.81	43	545325	95.837	ug/l	100
43) Ethyl Acetate	4.83	43	58571	17.667	ug/l	98
44) Isopropyl Acetate	6.44	43	101155	18.733	ug/l	99
45) 1,4-Dioxane	7.74	88	27275	388.078	ug/l	98
46) Methyl methacrylate	7.77	41	47536	18.137	ug/l	96
47) n-amyl Acetate	10.90	43	91333	18.859	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	65363	19.312	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	73638	19.937	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	48338	18.719	ug/l	98
51) Ethyl methacrylate	9.18	69	74164	18.570	ug/l	97
52) 1,3-Dichloropropane	9.37	76	78205	18.847	ug/l	97
53) Dibromochloromethane	9.58	129	52779	18.925	ug/l	99
54) 1,2-Dibromoethane	9.67	107	54149	19.296	ug/l	96
55) 2-Chloroethyl vinyl ether	8.30	63	164776	97.431	ug/l	99
56) Bromoform	10.85	173	38279	18.430	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	326460	92.915	ug/l	99
59) 2-Hexanone	9.49	43	260187	96.774	ug/l	100
61) Tetrachloroethene	9.34	164	53076	19.322	ug/l	96
62) Toluene	8.78	91	208236	18.841	ug/l	100
64) Chlorobenzene	10.13	112	137226	19.379	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	49625	19.283	ug/l	100
66) Ethyl Benzene	10.25	91	234875	18.877	ug/l	100
67) m/p-Xylenes	10.35	106	179473	37.702	ug/l	96
68) o-Xylene	10.69	106	87837	18.832	ug/l	98
69) Styrene	10.71	104	149450	19.062	ug/l	99
70) Isopropylbenzene	11.02	105	242253	19.504	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	76001	18.977	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	64302m	19.235	ug/l	
73) Bromobenzene	11.26	156	64870	19.357	ug/l	99
74) n-propylbenzene	11.36	91	274962	19.670	ug/l	100
75) 2-Chlorotoluene	11.42	91	161734	19.426	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	206499	19.642	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	21431	19.430	ug/l	91
78) 4-Chlorotoluene	11.51	91	186327	19.487	ug/l	99
79) tert-butylbenzene	11.77	119	199343	19.548	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	207509	19.600	ug/l	99
81) sec-Butylbenzene	11.94	105	241095	20.057	ug/l	100
82) p-Isopropyltoluene	12.06	119	223250	20.015	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	117350	19.836	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	115130	19.580	ug/l	99
85) n-Butylbenzene	12.38	91	194252	20.451	ug/l	100
86) Hexachloroethane	12.59	117	33050	18.787	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	116043	20.034	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	16476	18.687	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	82724	20.706	ug/l	97
90) Hexachlorobutadiene	13.78	225	40424	20.927	ug/l	99
91) Naphthalene	13.83	128	238471	19.562	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	82480	20.598	ug/l	100

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

