

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX121219\
 Data File : VX013996.D
 Acq On : 13 Dec 2019 00:54
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 ICVVX121219

Manual Integrations
 APPROVED

apatel
 12/13/2019 12:40:16 PM

Quant Time: Dec 13 02:20:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	89754	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	499369	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	451742	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	191065	29.72	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.07%
60) 4-Bromofluorobenzene	11.14	95	215265	29.51	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.37%
63) Toluene-d8	8.71	98	608662	30.14	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	85994	18.967 ug/l	96
3) Chloromethane	1.31	50	127990	20.029 ug/l	97
4) Vinyl Chloride	1.40	62	125299	19.128 ug/l	99
5) Bromomethane	1.63	94	100306	20.947 ug/l	98
6) Chloroethane	1.70	64	77391	19.127 ug/l	96
7) Trichlorofluoromethane	1.92	101	157154	19.280 ug/l	99
8) Diethyl Ether	2.18	74	70832	18.905 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	92939	19.117 ug/l	97
10) 1,1-Dichloroethene	2.36	96	99411	19.779 ug/l	98
11) Methyl Iodide	2.50	142	100888	15.593 ug/l	98
12) Methyl Acetate	2.76	43	149508	19.215 ug/l	96
13) Acrolein	2.28	56	101472	107.525 ug/l	99
14) Acrylonitrile	3.13	53	296311	97.416 ug/l	100
15) Acetone	2.44	58	77950	87.237 ug/l	82
16) Carbon Disulfide	2.56	76	282582	20.755 ug/l	96
17) Allyl chloride	2.72	41	174342	19.304 ug/l	98
18) Methylene Chloride	2.84	84	122345	19.866 ug/l	96
19) trans-1,2-Dichloroethene	3.16	96	110756	20.124 ug/l	99
20) Diisopropyl ether	3.84	45	354331	19.120 ug/l	98
21) 1,1-Dichloroethane	3.69	63	192053	19.095 ug/l	98
22) cis-1,2-Dichloroethene	4.58	96	124876	19.572 ug/l	99
23) tert-Butyl Alcohol	3.05	59	117048	98.108 ug/l	# 100
24) Methyl tert-Butyl Ether	3.18	73	327047	19.263 ug/l	99
25) Chloroform	5.20	83	185607	19.356 ug/l	100
26) Cyclohexane	5.57	56	173443	19.339 ug/l	# 99
29) 1,1-Dichloropropene	5.79	75	143211	19.854 ug/l	99
30) 2-Butanone	4.66	43	409827	96.393 ug/l	100
31) 2,2-Dichloropropane	4.58	77	127431	19.098 ug/l	100
32) 1,1,1-Trichloroethane	5.48	97	156504	19.616 ug/l	98
33) Carbon Tetrachloride	5.78	117	130453	19.235 ug/l	98
34) Benzene	6.13	78	439924	19.559 ug/l	98
35) Methacrylonitrile	5.03	41	89352	19.540 ug/l	96
36) 1,2-Dichloroethane	6.18	62	153216	19.611 ug/l	99
37) Trichloroethene	7.21	130	118536	19.368 ug/l	95
38) Methylcyclohexane	7.45	83	170807	19.852 ug/l	98
39) 1,2-Dichloropropane	7.51	63	113704	19.464 ug/l	96
40) Dibromomethane	7.65	93	75813	20.315 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	136021	18.824	ug/l	98
42) Vinyl Acetate	3.80	43	1520472	101.292	ug/l	100
43) Ethyl Acetate	4.82	43	163138	19.997	ug/l	99
44) Isopropyl Acetate	6.44	43	263313	19.271	ug/l	100
45) 1,4-Dioxane	7.74	88	51987	406.289	ug/l	99
46) Methyl methacrylate	7.76	41	129080	19.449	ug/l	98
47) n-amyl Acetate	10.89	43	228738	18.827	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	150440	19.075	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	169795	19.144	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	110975	19.269	ug/l	98
51) Ethyl methacrylate	9.17	69	176552	19.272	ug/l	98
52) 1,3-Dichloropropane	9.37	76	189633	19.380	ug/l	99
53) Dibromochloromethane	9.57	129	108947	18.918	ug/l	99
54) 1,2-Dibromoethane	9.67	107	116396	19.629	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	403476	99.912	ug/l	99
56) Bromoform	10.85	173	82221	18.308	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	824152	97.506	ug/l	99
59) 2-Hexanone	9.49	43	618982	96.499	ug/l	98
61) Tetrachloroethene	9.33	164	112389	18.806	ug/l	97
62) Toluene	8.78	91	468845	19.514	ug/l	98
64) Chlorobenzene	10.14	112	295466	19.629	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.21	131	106965	19.191	ug/l	99
66) Ethyl Benzene	10.25	91	516434	19.641	ug/l	100
67) m/p-Xylenes	10.36	106	395717	39.370	ug/l	99
68) o-Xylene	10.70	106	192584	19.341	ug/l	99
69) Styrene	10.71	104	324968	19.192	ug/l	100
70) Isopropylbenzene	11.01	105	506002	19.665	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	176002	19.288	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	161597m	19.895	ug/l	
73) Bromobenzene	11.25	156	132124	19.235	ug/l	98
74) n-propylbenzene	11.35	91	568548	19.481	ug/l	98
75) 2-Chlorotoluene	11.42	91	343764	19.494	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	423786	19.415	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	49159	18.328	ug/l	96
78) 4-Chlorotoluene	11.51	91	386131	19.162	ug/l	97
79) tert-butylbenzene	11.76	119	414213	19.687	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	425043	19.474	ug/l	100
81) sec-Butylbenzene	11.94	105	481504	19.241	ug/l	98
82) p-Isopropyltoluene	12.06	119	439247	19.450	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	234658	19.600	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	229274	19.232	ug/l	100
85) n-Butylbenzene	12.39	91	358989	18.906	ug/l	99
86) Hexachloroethane	12.59	117	75250	18.368	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	234822	19.310	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	33568	18.456	ug/l	94
89) 1,2,4-Trichlorobenzene	13.64	180	149396	19.222	ug/l	99
90) Hexachlorobutadiene	13.78	225	71365	19.318	ug/l	99
91) Naphthalene	13.83	128	456562	19.544	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	149858	19.010	ug/l	99

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

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