

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032719\
 Data File : VX008476.D
 Acq On : 27 Mar 2019 12:18
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX032719

Manual Integrations
 APPROVED

MMDadoda
 3/28/2019 9:37:26 AM

Quant Time: Mar 28 02:00:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	40366	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	237975	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	211939	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	100254	29.69	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.97%
60) 4-Bromofluorobenzene	11.13	95	109478	29.65	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.83%
63) Toluene-d8	8.71	98	301139	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	51961	18.825	ug/l 98
3) Chloromethane	1.32	50	72620	20.081	ug/l 96
4) Vinyl Chloride	1.40	62	67105	18.409	ug/l 99
5) Bromomethane	1.64	94	35784	18.946	ug/l 99
6) Chloroethane	1.72	64	40177	16.840	ug/l 94
7) Trichlorofluoromethane	1.93	101	74539	18.423	ug/l 98
8) Diethyl Ether	2.18	74	34304	17.978	ug/l 80
9) 1,1,2-Trichlorotrifluoroet	2.38	101	47558	18.875	ug/l 92
10) 1,1-Dichloroethene	2.37	96	48194	18.854	ug/l 90
11) Methyl Iodide	2.51	142	39301	14.848	ug/l 95
12) Methyl Acetate	3.18	43	37309	18.008	ug/l 90
13) Acrolein	2.29	56	56862	95.669	ug/l 96
14) Acrylonitrile	3.14	53	173088	90.364	ug/l 99
15) Acetone	2.44	58	51396	87.012	ug/l 92
16) Carbon Disulfide	2.57	76	151909	19.104	ug/l 99
17) Allyl chloride	2.73	41	103767	18.062	ug/l 92
18) Methylene Chloride	2.85	84	56553	18.508	ug/l 88
19) trans-1,2-Dichloroethene	3.16	96	51899	19.004	ug/l 90
20) Diisopropyl ether	3.85	45	202840	18.140	ug/l # 85
21) 1,1-Dichloroethane	3.69	63	103537	18.447	ug/l 96
22) cis-1,2-Dichloroethene	4.59	96	58662	18.588	ug/l # 81
23) tert-Butyl Alcohol	3.04	59	68710	88.833	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	172595	18.372	ug/l 100
25) Chloroform	5.21	83	93232	18.338	ug/l 97
26) Cyclohexane	5.57	56	102276	18.757	ug/l # 84
29) 1,1-Dichloropropene	5.79	75	73864	18.450	ug/l 93
30) 2-Butanone	4.67	43	257030	87.306	ug/l 94
31) 2,2-Dichloropropane	4.57	77	73884	18.477	ug/l 94
32) 1,1,1-Trichloroethane	5.49	97	75529	18.167	ug/l 94
33) Carbon Tetrachloride	5.78	117	62692	18.023	ug/l 99
34) Benzene	6.13	78	223379	18.253	ug/l # 95
35) Methacrylonitrile	5.04	41	54051	18.054	ug/l 92
36) 1,2-Dichloroethane	6.19	62	79916	18.316	ug/l 98
37) Trichloroethene	7.21	130	51869	18.430	ug/l 82
38) Methylcyclohexane	7.46	83	94022	18.637	ug/l 89
39) 1,2-Dichloropropane	7.51	63	62486	18.002	ug/l 98
40) Dibromomethane	7.66	93	35966	17.887	ug/l 89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.89	83	70538	17.841	ug/l	99
42) Vinyl Acetate	3.81	43	910132	91.195	ug/l #	94
43) Ethyl Acetate	4.82	43	93809	17.704	ug/l #	81
44) Isopropyl Acetate	6.44	43	150455	17.560	ug/l	98
45) 1,4-Dioxane	7.74	88	30920	362.511	ug/l #	85
46) Methyl methacrylate	7.76	41	75770	17.412	ug/l	88
47) n-amyl Acetate	10.90	43	135624	17.426	ug/l	94
48) t-1,3-Dichloropropene	9.04	75	79678	17.842	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	90636	18.145	ug/l	94
50) 1,1,2-Trichloroethane	9.21	97	53210	17.822	ug/l	99
51) Ethyl methacrylate	9.18	69	97417	17.533	ug/l	93
52) 1,3-Dichloropropane	9.37	76	95094	17.902	ug/l	100
53) Dibromochloromethane	9.58	129	51067	17.381	ug/l	98
54) 1,2-Dibromoethane	9.67	107	54546	17.722	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	280609	100.110	ug/l	95
56) Bromoform	10.85	173	36303	16.954	ug/l #	99
58) 4-Methyl-2-Pentanone	8.63	43	490305	87.690	ug/l	95
59) 2-Hexanone	9.49	43	386342	87.459	ug/l	97
61) Tetrachloroethene	9.34	164	42948	18.526	ug/l	99
62) Toluene	8.78	91	234238	18.254	ug/l	100
64) Chlorobenzene	10.13	112	137418	18.276	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	47405	17.882	ug/l	98
66) Ethyl Benzene	10.25	91	259957	18.252	ug/l	97
67) m/p-Xylenes	10.35	106	189495	36.477	ug/l	90
68) o-Xylene	10.69	106	91819	18.062	ug/l	91
69) Styrene	10.71	104	159949	18.082	ug/l	96
70) Isopropylbenzene	11.02	105	248127	18.503	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.26	83	89334	17.832	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	76587m	18.086	ug/l	
73) Bromobenzene	11.26	156	57110	17.900	ug/l	77
74) n-propylbenzene	11.36	91	297024	18.593	ug/l	94
75) 2-Chlorotoluene	11.42	91	173025	18.205	ug/l	90
76) 1,3,5-Trimethylbenzene	11.51	105	209991	18.316	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	27277	16.793	ug/l	91
78) 4-Chlorotoluene	11.51	91	200078	18.291	ug/l	91
79) tert-butylbenzene	12.06	119	216189	18.452	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	208505	18.240	ug/l	96
81) sec-Butylbenzene	11.94	105	242191	18.489	ug/l	96
82) p-Isopropyltoluene	12.06	119	216189	18.452	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	104801	18.503	ug/l	96
84) 1,4-Dichlorobenzene	12.10	146	102917	18.183	ug/l	96
85) n-Butylbenzene	12.38	91	206114	18.515	ug/l	97
86) Hexachloroethane	12.59	117	34565	17.657	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	103568	18.147	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	20073	18.078	ug/l #	75
89) 1,2,4-Trichlorobenzene	13.65	180	74819	19.005	ug/l	98
90) Hexachlorobutadiene	13.78	225	36302	19.141	ug/l	99
91) Naphthalene	13.83	128	256687	19.031	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	75214	18.967	ug/l	100

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

