

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032219\
 Data File : VX008330.D
 Acq On : 22 Mar 2019 10:58
 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
 3/23/2019 9:33:33 AM

Quant Time: Mar 22 15:32:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 22 13:03:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	39127	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	213436	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	188782	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	80806	30.22	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.73%
60) 4-Bromofluorobenzene	11.13	95	90074	29.31	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.70%
63) Toluene-d8	8.71	98	256498	30.16	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	10947	5.214	ug/l 100
3) Chloromethane	1.33	50	11290	5.260	ug/l 94
4) Vinyl Chloride	1.41	62	12875	5.322	ug/l 98
5) Bromomethane	1.64	94	26746	6.099	ug/l 100
6) Chloroethane	1.72	64	7893	4.591	ug/l 95
7) Trichlorofluoromethane	1.93	101	21283	5.526	ug/l 95
8) Diethyl Ether	2.19	74	8291	5.551	ug/l 90
9) 1,1,2-Trichlorotrifluoroet	2.38	101	12501	5.869	ug/l 96
10) 1,1-Dichloroethene	2.37	96	11384	5.415	ug/l 98
11) Methyl Iodide	2.51	142	15845	4.986	ug/l 99
12) Methyl Acetate	2.78	43	12294	5.359	ug/l 95
13) Acrolein	2.29	56	8065	22.441	ug/l 95
14) Acrylonitrile	3.14	53	29704	26.091	ug/l 98
15) Acetone	2.44	58	11703	26.214	ug/l 89
16) Carbon Disulfide	2.57	76	32097	5.506	ug/l 98
17) Allyl chloride	2.73	41	16249	5.238	ug/l 97
18) Methylene Chloride	2.85	84	12747	5.632	ug/l 95
19) trans-1,2-Dichloroethene	3.17	96	12259	5.493	ug/l 91
20) Diisopropyl ether	3.86	45	34395	5.302	ug/l 96
21) 1,1-Dichloroethane	3.70	63	20734	5.412	ug/l 97
22) cis-1,2-Dichloroethene	4.60	96	13822	5.370	ug/l 98
23) tert-Butyl Alcohol	3.04	59	11538	24.964	ug/l # 99
24) Methyl tert-Butyl Ether	3.20	73	35333	5.231	ug/l 97
25) Chloroform	5.20	83	22259	5.477	ug/l 89
26) Cyclohexane	5.58	56	18067	5.333	ug/l # 96
29) 1,1-Dichloropropene	5.80	75	16096	5.310	ug/l 96
30) 2-Butanone	4.67	43	44573	25.528	ug/l 97
31) 2,2-Dichloropropane	4.59	77	14770m	5.175	ug/l
32) 1,1,1-Trichloroethane	5.49	97	18679	5.237	ug/l 94
33) Carbon Tetrachloride	5.78	117	17010	5.193	ug/l 95
34) Benzene	6.14	78	47372	5.246	ug/l 98
35) Methacrylonitrile	5.04	41	8410	5.171	ug/l 96
36) 1,2-Dichloroethane	6.20	62	18568	5.579	ug/l # 91
37) Trichloroethene	7.21	130	14601	5.500	ug/l 91
38) Methylcyclohexane	7.46	83	20251	5.330	ug/l 98
39) 1,2-Dichloropropane	7.51	63	12004	5.224	ug/l 97
40) Dibromomethane	7.66	93	8665	5.142	ug/l 95

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

41) Bromodichloromethane	7.90	83	16075	5.027	ug/l #	95
42) Vinyl Acetate	3.81	43	146604	24.981	ug/l	99
43) Ethyl Acetate	4.84	43	16252	5.270	ug/l #	89
44) Isopropyl Acetate	6.44	43	23932	4.934	ug/l #	75
45) 1,4-Dioxane	7.74	88	6396	104.840	ug/l #	92
46) Methyl methacrylate	7.76	41	11957	5.024	ug/l	93
47) n-amyl Acetate	10.90	43	18838	4.530	ug/l	92
48) t-1,3-Dichloropropene	9.04	75	14536	4.540	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	16482	4.614	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	13114	5.417	ug/l	96
51) Ethyl methacrylate	9.18	69	15784	4.466	ug/l	95
52) 1,3-Dichloropropane	9.37	76	20704	5.332	ug/l	99
53) Dibromochloromethane	9.58	129	13035	4.776	ug/l	97
54) 1,2-Dibromoethane	9.67	107	13738	5.172	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	42828	24.085	ug/l	99
56) Bromoform	10.85	173	9912	4.601	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	79871	25.128	ug/l	97
59) 2-Hexanone	9.49	43	62182	24.731	ug/l	98
61) Tetrachloroethene	9.34	164	14172	5.577	ug/l	96
62) Toluene	8.78	91	52221	5.211	ug/l	97
64) Chlorobenzene	10.13	112	35394	5.479	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	12360	5.010	ug/l	99
66) Ethyl Benzene	10.25	91	55125	5.087	ug/l	97
67) m/p-Xylenes	10.36	106	44323	10.291	ug/l	99
68) o-Xylene	10.69	106	21144	5.110	ug/l	99
69) Styrene	10.71	104	33194	4.752	ug/l	97
70) Isopropylbenzene	11.02	105	55565	5.104	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	19652	5.294	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	15412m	4.974	ug/l	
73) Bromobenzene	11.26	156	15599	5.179	ug/l	100
74) n-propylbenzene	11.36	91	61814	5.094	ug/l	99
75) 2-Chlorotoluene	11.42	91	37829	5.220	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	46701	5.022	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	3997	3.773	ug/l	94
78) 4-Chlorotoluene	11.51	91	44167	5.179	ug/l	98
79) tert-butylbenzene	12.06	119	48138	4.921	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	46537	5.036	ug/l	99
81) sec-Butylbenzene	11.94	105	56538	5.330	ug/l	99
82) p-Isopropyltoluene	12.06	119	48138	4.921	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	27124	5.188	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	26698	5.128	ug/l	96
85) n-Butylbenzene	12.39	91	40352	4.795	ug/l	99
86) Hexachloroethane	12.60	117	8213	4.871	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	26448	5.130	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	13.00	75	4199	4.941	ug/l	81
89) 1,2,4-Trichlorobenzene	13.65	180	17429	4.777	ug/l	97
90) Hexachlorobutadiene	13.78	225	9353	5.092	ug/l	96
91) Naphthalene	13.83	128	48923	4.464	ug/l	98
92) 1,2,3-Trichlorobenzene	14.02	180	17811	4.828	ug/l	96

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

