

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050319\
 Data File : VX009300.D
 Acq On : 03 May 2019 09:47
 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
 5/6/2019 9:28:13 AM

Quant Time: May 04 03:04:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	35047	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	202997	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	179208	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	85743	29.49	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.30%
60) 4-Bromofluorobenzene	11.13	95	92306	30.31	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.03%
63) Toluene-d8	8.71	98	255893	30.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	37819	20.308	ug/l 99
3) Chloromethane	1.32	50	49962	19.960	ug/l 99
4) Vinyl Chloride	1.41	62	49471	19.811	ug/l 99
5) Bromomethane	1.64	94	29384	18.563	ug/l 95
6) Chloroethane	1.72	64	31360	19.149	ug/l 96
7) Trichlorofluoromethane	1.93	101	60856	19.735	ug/l 97
8) Diethyl Ether	2.18	74	27852	19.452	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.38	101	38814	20.330	ug/l 98
10) 1,1-Dichloroethene	2.37	96	38211	19.933	ug/l 98
11) Methyl Iodide	2.51	142	36621	17.573	ug/l 97
12) Methyl Acetate	2.77	43	66303	18.363	ug/l 99
13) Acrolein	2.29	56	42263	85.341	ug/l 98
14) Acrylonitrile	3.14	53	149198	95.214	ug/l 99
15) Acetone	2.44	58	46349	103.022	ug/l 96
16) Carbon Disulfide	2.57	76	100394	19.356	ug/l 98
17) Allyl chloride	2.73	41	88976	19.334	ug/l 99
18) Methylene Chloride	2.85	84	45874	19.801	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	40086	19.613	ug/l 98
20) Diisopropyl ether	3.85	45	179793	19.838	ug/l 95
21) 1,1-Dichloroethane	3.69	63	86404	19.700	ug/l 97
22) cis-1,2-Dichloroethene	4.59	96	48016	19.503	ug/l 96
23) tert-Butyl Alcohol	3.04	59	59090	89.182	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	146695	19.554	ug/l 100
25) Chloroform	5.20	83	79351	19.826	ug/l 96
26) Cyclohexane	5.57	56	82130	20.092	ug/l # 97
29) 1,1-Dichloropropene	5.80	75	60662	20.366	ug/l 100
30) 2-Butanone	4.67	43	233100	99.927	ug/l 99
31) 2,2-Dichloropropane	4.58	77	65352	19.902	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	64076	19.844	ug/l 97
33) Carbon Tetrachloride	5.78	117	54503	20.174	ug/l 99
34) Benzene	6.14	78	185810	20.234	ug/l 100
35) Methacrylonitrile	5.03	41	47501	19.463	ug/l 94
36) 1,2-Dichloroethane	6.19	62	67168	20.158	ug/l 100
37) Trichloroethene	7.21	130	44966	20.341	ug/l 95
38) Methylcyclohexane	7.46	83	75376	20.482	ug/l 99
39) 1,2-Dichloropropane	7.51	63	53539	20.473	ug/l 97
40) Dibromomethane	7.66	93	29875	20.128	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	59757	19.711	ug/l	99
42) Vinyl Acetate	3.81	43	775048	100.668	ug/l	100
43) Ethyl Acetate	4.83	43	82044	19.464	ug/l	98
44) Isopropyl Acetate	6.44	43	131188	19.212	ug/l	99
45) 1,4-Dioxane	7.73	88	25912	386.503	ug/l	99
46) Methyl methacrylate	7.76	41	66686	19.566	ug/l	96
47) n-amyl Acetate	10.90	43	119782	19.472	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	67404	19.055	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	76022	19.576	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	45914	20.191	ug/l	97
51) Ethyl methacrylate	9.18	69	81742	19.452	ug/l	98
52) 1,3-Dichloropropane	9.37	76	80920	20.051	ug/l	100
53) Dibromochloromethane	9.58	129	44757	19.763	ug/l	100
54) 1,2-Dibromoethane	9.67	107	45841	19.656	ug/l	99
55) 2-Chloroethyl vinyl ether	8.30	63	251925	112.506	ug/l	99
56) Bromoform	10.85	173	33229	19.114	ug/l	100
58) 4-Methyl-2-Pentanone	8.63	43	431140	97.842	ug/l	100
59) 2-Hexanone	9.49	43	348834	100.929	ug/l	100
61) Tetrachloroethene	9.34	164	42441	21.483	ug/l	97
62) Toluene	8.78	91	196280	20.497	ug/l	99
64) Chlorobenzene	10.13	112	116766	20.261	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	42642	20.208	ug/l	99
66) Ethyl Benzene	10.25	91	217014	20.343	ug/l	98
67) m/p-Xylenes	10.36	106	160943	41.321	ug/l	100
68) o-Xylene	10.69	106	78621	20.528	ug/l	99
69) Styrene	10.71	104	136376	20.285	ug/l	99
70) Isopropylbenzene	11.02	105	212228	20.605	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	74705	19.805	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	66163m	20.354	ug/l	
73) Bromobenzene	11.26	156	51118	20.087	ug/l	98
74) n-propylbenzene	11.36	91	246123	20.621	ug/l	99
75) 2-Chlorotoluene	11.42	91	148409	20.730	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	181413	20.793	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	24085	18.369	ug/l	99
78) 4-Chlorotoluene	11.51	91	168152	20.680	ug/l	100
79) tert-butylbenzene	11.77	119	172482	20.450	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	181658	20.774	ug/l	100
81) sec-Butylbenzene	11.94	105	207757	20.733	ug/l	99
82) p-Isopropyltoluene	12.06	119	189100	20.745	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	93380	20.547	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	91986	20.316	ug/l	99
85) n-Butylbenzene	12.38	91	172760	20.712	ug/l	99
86) Hexachloroethane	12.60	117	30529	19.682	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	93819	20.508	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	16682	19.031	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	67996	20.853	ug/l	99
90) Hexachlorobutadiene	13.78	225	34878	21.414	ug/l	98
91) Naphthalene	13.83	128	214245	20.068	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	68187	20.572	ug/l	99

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

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