

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050119\
 Data File : VX009253.D
 Acq On : 01 May 2019 12:17
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 10:53:16 AM

Quant Time: May 02 06:44:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:30:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	30358	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	182637	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	163562	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	76646	30.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.27%
60) 4-Bromofluorobenzene	11.13	95	83649	29.80	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.33%
63) Toluene-d8	8.71	98	229783	29.07	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	163908	102.419	ug/l 100
3) Chloromethane	1.32	50	214504	100.798	ug/l 100
4) Vinyl Chloride	1.41	62	218885	101.999	ug/l 97
5) Bromomethane	1.64	94	134232	110.280	ug/l 96
6) Chloroethane	1.71	64	137239	95.321	ug/l 99
7) Trichlorofluoromethane	1.92	101	269811	103.341	ug/l 99
8) Diethyl Ether	2.18	74	124529	102.637	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	168020	102.801	ug/l 100
10) 1,1-Dichloroethene	2.37	96	168532	102.663	ug/l 97
11) Methyl Iodide	2.51	142	213216	128.786	ug/l 99
12) Methyl Acetate	2.78	43	304579	101.557	ug/l 99
13) Acrolein	2.29	56	204187	520.899	ug/l 99
14) Acrylonitrile	3.14	53	677677	511.805	ug/l 99
15) Acetone	2.45	58	191449	486.702	ug/l 100
16) Carbon Disulfide	2.56	76	470038	106.757	ug/l 99
17) Allyl chloride	2.72	41	407678	105.336	ug/l 96
18) Methylene Chloride	2.85	84	199296	101.887	ug/l 97
19) trans-1,2-Dichloroethene	3.16	96	179322	103.603	ug/l 96
20) Diisopropyl ether	3.85	45	788691	102.462	ug/l 98
21) 1,1-Dichloroethane	3.70	63	382416	103.819	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	215305	103.225	ug/l 98
23) tert-Butyl Alcohol	3.06	59	289699	536.774	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	657536	105.108	ug/l 99
25) Chloroform	5.21	83	349421	102.635	ug/l 99
26) Cyclohexane	5.57	56	362915	103.403	ug/l # 98
29) 1,1-Dichloropropene	5.80	75	271096	102.197	ug/l 99
30) 2-Butanone	4.68	43	1040825	501.300	ug/l 99
31) 2,2-Dichloropropane	4.58	77	297804	102.853	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	294646	105.749	ug/l 97
33) Carbon Tetrachloride	5.79	117	246382	104.016	ug/l 99
34) Benzene	6.14	78	822901	100.053	ug/l 99
35) Methacrylonitrile	5.04	41	220994	101.559	ug/l 96
36) 1,2-Dichloroethane	6.20	62	297396	100.374	ug/l 99
37) Trichloroethene	7.21	130	199157	103.373	ug/l 97
38) Methylcyclohexane	7.46	83	335717	103.532	ug/l 99
39) 1,2-Dichloropropane	7.51	63	236478	102.413	ug/l 99
40) Dibromomethane	7.66	93	133916	101.820	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	279792	106.236	ug/l	97
42) Vinyl Acetate	3.81	43	3504956	509.313	ug/l	99
43) Ethyl Acetate	4.84	43	383161	99.750	ug/l	100
44) Isopropyl Acetate	6.45	43	623362	105.472	ug/l	99
45) 1,4-Dioxane	7.74	88	119461	2033.189	ug/l	100
46) Methyl methacrylate	7.77	41	310562	103.946	ug/l	97
47) n-amyl Acetate	10.90	43	574607	108.882	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	334368	111.024	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	360986	107.664	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	203194	100.637	ug/l	98
51) Ethyl methacrylate	9.18	69	384071	104.741	ug/l	99
52) 1,3-Dichloropropane	9.37	76	362070	100.949	ug/l	100
53) Dibromochloromethane	9.59	129	211939	109.175	ug/l	99
54) 1,2-Dibromoethane	9.67	107	210666	102.697	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	1016433	492.054	ug/l	100
56) Bromoform	10.85	173	167947	116.415	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	2003839	501.026	ug/l	99
59) 2-Hexanone	9.49	43	1587087	503.142	ug/l	99
61) Tetrachloroethene	9.34	164	175979	97.705	ug/l	98
62) Toluene	8.79	91	869511	98.964	ug/l	100
64) Chlorobenzene	10.14	112	522343	100.774	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	193834	103.332	ug/l	99
66) Ethyl Benzene	10.25	91	974769	100.565	ug/l	98
67) m/p-Xylenes	10.36	106	715749	202.777	ug/l	99
68) o-Xylene	10.70	106	349770	101.928	ug/l	98
69) Styrene	10.71	104	625197	103.698	ug/l	100
70) Isopropylbenzene	11.02	105	929621	99.403	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	345792	102.857	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	298937m	100.821	ug/l	
73) Bromobenzene	11.26	156	233585	101.525	ug/l	99
74) n-propylbenzene	11.36	91	1103293	102.745	ug/l	99
75) 2-Chlorotoluene	11.42	91	651207	100.709	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	803844	102.356	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	130705	119.457	ug/l	97
78) 4-Chlorotoluene	11.51	91	755174	104.336	ug/l	99
79) tert-butylbenzene	11.77	119	774598	102.107	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	805704	102.734	ug/l	99
81) sec-Butylbenzene	11.94	105	925399	102.985	ug/l	100
82) p-Isopropyltoluene	12.06	119	850354	104.293	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	423112	106.074	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	424912	108.147	ug/l	99
85) n-Butylbenzene	12.38	91	803248	110.996	ug/l	100
86) Hexachloroethane	12.60	117	149803	108.224	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	424040	104.021	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	80478	103.703	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	305474	109.438	ug/l	99
90) Hexachlorobutadiene	13.78	225	153615	108.559	ug/l	99
91) Naphthalene	13.83	128	971957	101.653	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	301304	102.607	ug/l	99

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

