

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102219\
 Data File : VX013173.D
 Acq On : 22 Oct 2019 13:30
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/23/2019 3:10:33 PM

Quant Time: Oct 23 07:52:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:53:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	29377	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	166526	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	151900	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	67959	29.39	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.97%
60) 4-Bromofluorobenzene	11.13	95	79684	30.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.43%
63) Toluene-d8	8.71	98	206129	30.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	39114	18.545	ug/l 98
3) Chloromethane	1.32	50	33133	18.019	ug/l 97
4) Vinyl Chloride	1.40	62	34079	17.926	ug/l 95
5) Bromomethane	1.63	94	22397	21.832	ug/l 98
6) Chloroethane	1.72	64	20807	17.151	ug/l 98
7) Trichlorofluoromethane	1.92	101	56663	18.547	ug/l 95
8) Diethyl Ether	2.17	74	18708	17.941	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	34592	18.538	ug/l 97
10) 1,1-Dichloroethene	2.36	96	32901	18.256	ug/l 96
11) Methyl Iodide	2.50	142	39184	16.882	ug/l 96
12) Methyl Acetate	2.76	43	41845	17.981	ug/l 90
13) Acrolein	2.28	56	30985	89.442	ug/l 100
14) Acrylonitrile	3.12	53	85731	88.087	ug/l 98
15) Acetone	2.43	58	29947	93.394	ug/l 100
16) Carbon Disulfide	2.56	76	84181	17.492	ug/l 100
17) Allyl chloride	2.72	41	51071	17.816	ug/l 97
18) Methylene Chloride	2.84	84	36615	17.547	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	35823	18.732	ug/l 94
20) Diisopropyl ether	3.84	45	102197	18.432	ug/l 92
21) 1,1-Dichloroethane	3.69	63	61562	18.287	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	39278	18.012	ug/l 97
23) tert-Butyl Alcohol	3.02	59	39695	77.414	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	115437	18.573	ug/l 97
25) Chloroform	5.20	83	65039	18.385	ug/l 100
26) Cyclohexane	5.57	56	53760	18.200	ug/l # 97
29) 1,1-Dichloropropene	5.79	75	47607	18.403	ug/l # 86
30) 2-Butanone	4.65	43	123731	91.180	ug/l 100
31) 2,2-Dichloropropane	4.57	77	57206	19.126	ug/l # 80
32) 1,1,1-Trichloroethane	5.48	97	59034	18.858	ug/l 100
33) Carbon Tetrachloride	5.77	117	50395	18.730	ug/l 99
34) Benzene	6.13	78	140765	18.901	ug/l 98
35) Methacrylonitrile	5.02	41	25075	18.018	ug/l 94
36) 1,2-Dichloroethane	6.18	62	54237	19.265	ug/l 99
37) Trichloroethene	7.20	130	40040	19.383	ug/l 94
38) Methylcyclohexane	7.46	83	59098	18.732	ug/l 99
39) 1,2-Dichloropropane	7.50	63	34443	18.842	ug/l 98
40) Dibromomethane	7.65	93	24870	19.047	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	50011	18.996	ug/l	100
42) Vinyl Acetate	3.80	43	441024	93.721	ug/l	99
43) Ethyl Acetate	4.82	43	46473	18.777	ug/l	99
44) Isopropyl Acetate	6.43	43	77113	18.538	ug/l	100
45) 1,4-Dioxane	7.73	88	17432	331.370	ug/l	98
46) Methyl methacrylate	7.76	41	38073	18.601	ug/l	96
47) n-amyl Acetate	10.89	43	64035	18.262	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	53542	18.540	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	57149	18.186	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	37354	19.372	ug/l	97
51) Ethyl methacrylate	9.17	69	57689	19.080	ug/l	96
52) 1,3-Dichloropropane	9.36	76	62592	19.275	ug/l	99
53) Dibromochloromethane	9.57	129	37715	18.132	ug/l	97
54) 1,2-Dibromoethane	9.67	107	38477	18.662	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	127896	104.134	ug/l	99
56) Bromoform	10.85	173	26343	17.852	ug/l	99
58) 4-Methyl-2-Pentanone	8.63	43	233665	91.291	ug/l	99
59) 2-Hexanone	9.48	43	177679	88.575	ug/l	100
61) Tetrachloroethene	9.33	164	39401	19.566	ug/l	98
62) Toluene	8.78	91	156272	19.058	ug/l	99
64) Chlorobenzene	10.14	112	98929	18.816	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	37145	18.860	ug/l	97
66) Ethyl Benzene	10.25	91	179235	18.991	ug/l	99
67) m/p-Xylenes	10.36	106	135276	37.714	ug/l	98
68) o-Xylene	10.70	106	64787	18.921	ug/l	97
69) Styrene	10.71	104	110610	18.771	ug/l	99
70) Isopropylbenzene	11.01	105	177400	18.881	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	53117	18.449	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	44096m	17.634	ug/l	
73) Bromobenzene	11.25	156	41433	18.375	ug/l	99
74) n-propylbenzene	11.35	91	201939	19.582	ug/l	99
75) 2-Chlorotoluene	11.42	91	122347	18.960	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	147984	18.762	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	16427	16.919	ug/l	95
78) 4-Chlorotoluene	11.51	91	138013	18.718	ug/l	99
79) tert-butylbenzene	11.76	119	140692	18.525	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	150554	19.108	ug/l	98
81) sec-Butylbenzene	11.94	105	166971	18.455	ug/l	99
82) p-Isopropyltoluene	12.06	119	159695	19.305	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	77171	18.741	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	77437	19.015	ug/l	97
85) n-Butylbenzene	12.39	91	130107	18.516	ug/l	96
86) Hexachloroethane	12.59	117	25625	17.748	ug/l	93
87) 1,2-Dichlorobenzene	12.39	146	74806	18.727	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	11647	16.417	ug/l	92
89) 1,2,4-Trichlorobenzene	13.64	180	49131	19.777	ug/l	95
90) Hexachlorobutadiene	13.78	225	24374	19.324	ug/l	97
91) Naphthalene	13.83	128	146452	18.123	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	47158	18.528	ug/l	97

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

