

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111419\
 Data File : VX013432.D
 Acq On : 14 Nov 2019 19:40
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/15/2019 9:21:37 AM

Quant Time: Nov 15 06:06:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	115501	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	628808	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	558711	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	240377	28.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.93%
60) 4-Bromofluorobenzene	11.14	95	265509	29.57	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.57%
63) Toluene-d8	8.71	98	766521	30.34	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	150997	17.448	ug/l 96
3) Chloromethane	1.32	50	177136	18.781	ug/l 99
4) Vinyl Chloride	1.40	62	200500	18.709	ug/l 98
5) Bromomethane	1.63	94	102834	15.961	ug/l 99
6) Chloroethane	1.72	64	109648	18.613	ug/l 95
7) Trichlorofluoromethane	1.92	101	208319	18.056	ug/l 99
8) Diethyl Ether	2.18	74	99906	18.965	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	123251	17.756	ug/l 99
10) 1,1-Dichloroethene	2.36	96	129149	18.105	ug/l 98
11) Methyl Iodide	2.50	142	158592	18.006	ug/l 98
12) Methyl Acetate	2.76	43	242370	19.390	ug/l 98
13) Acrolein	2.28	56	113641	85.590	ug/l 99
14) Acrylonitrile	3.13	53	433571	94.328	ug/l 99
15) Acetone	2.43	58	117396	84.330	ug/l 98
16) Carbon Disulfide	2.56	76	336245	16.900	ug/l 100
17) Allyl chloride	2.72	41	238490	18.155	ug/l 95
18) Methylene Chloride	2.85	84	148829	18.389	ug/l 99
19) trans-1,2-Dichloroethene	3.16	96	138329	18.145	ug/l 99
20) Diisopropyl ether	3.84	45	469427	18.574	ug/l 87
21) 1,1-Dichloroethane	3.69	63	251836	18.295	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	160983	18.521	ug/l 98
23) tert-Butyl Alcohol	3.03	59	201536	91.109	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	433852	18.377	ug/l 100
25) Chloroform	5.20	83	253492	18.813	ug/l 99
26) Cyclohexane	5.57	56	217394	17.391	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	180511	18.795	ug/l 99
30) 2-Butanone	4.65	43	625035	98.596	ug/l 99
31) 2,2-Dichloropropane	4.58	77	188849	18.156	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	207041	19.395	ug/l 98
33) Carbon Tetrachloride	5.78	117	171261	18.470	ug/l 96
34) Benzene	6.13	78	572290	19.645	ug/l 98
35) Methacrylonitrile	5.03	41	125515	19.827	ug/l 96
36) 1,2-Dichloroethane	6.18	62	201728	19.783	ug/l 100
37) Trichloroethene	7.21	130	152426	19.531	ug/l 93
38) Methylcyclohexane	7.46	83	212922	18.080	ug/l 99
39) 1,2-Dichloropropane	7.51	63	148166	19.670	ug/l 99
40) Dibromomethane	7.65	93	100590	20.066	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	184358	18.839	ug/l	98
42) Vinyl Acetate	3.80	43	1947321	97.567	ug/l	100
43) Ethyl Acetate	4.82	43	235546	20.372	ug/l	99
44) Isopropyl Acetate	6.43	43	357342	19.227	ug/l	99
45) 1,4-Dioxane	7.73	88	83099	404.977	ug/l	99
46) Methyl methacrylate	7.76	41	179118	19.375	ug/l	96
47) n-amyl Acetate	10.89	43	300600	18.439	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	196223	17.882	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	227025	18.881	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	146243	19.715	ug/l	97
51) Ethyl methacrylate	9.17	69	231164	18.927	ug/l	99
52) 1,3-Dichloropropane	9.37	76	249256	19.655	ug/l	99
53) Dibromochloromethane	9.58	129	145925	18.561	ug/l	99
54) 1,2-Dibromoethane	9.67	107	158077	19.929	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	480353	92.046	ug/l	99
56) Bromoform	10.85	173	109501	17.502	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	1196615	102.523	ug/l	100
59) 2-Hexanone	9.48	43	915819	99.169	ug/l	99
61) Tetrachloroethene	9.33	164	135349	19.646	ug/l	98
62) Toluene	8.78	91	611246	19.641	ug/l	99
64) Chlorobenzene	10.14	112	379574	19.507	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	140664	19.312	ug/l	99
66) Ethyl Benzene	10.25	91	660260	19.312	ug/l	100
67) m/p-Xylenes	10.35	106	501771	38.046	ug/l	98
68) o-Xylene	10.70	106	248972	19.561	ug/l	98
69) Styrene	10.71	104	420139	19.331	ug/l	100
70) Isopropylbenzene	11.01	105	650615	19.399	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	239123	19.913	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	187340m	18.476	ug/l	
73) Bromobenzene	11.25	156	173459	19.612	ug/l	94
74) n-propylbenzene	11.35	91	727342	19.083	ug/l	99
75) 2-Chlorotoluene	11.42	91	432314	19.074	ug/l	97
76) 1,3,5-Trimethylbenzene	11.50	105	542146	19.231	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	70699	17.244	ug/l	93
78) 4-Chlorotoluene	11.51	91	491794	18.938	ug/l	99
79) tert-butylbenzene	11.76	119	544375	19.139	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	538554	19.171	ug/l	99
81) sec-Butylbenzene	11.94	105	617672	19.034	ug/l	100
82) p-Isopropyltoluene	12.06	119	558771	18.688	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	295934	19.031	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	292698	18.963	ug/l	98
85) n-Butylbenzene	12.39	91	471360	18.266	ug/l	100
86) Hexachloroethane	12.59	117	96432	17.576	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	298066	19.169	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	52276	19.466	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	200636	18.714	ug/l	100
90) Hexachlorobutadiene	13.78	225	97569	18.992	ug/l	100
91) Naphthalene	13.83	128	641100	18.886	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	200642	18.519	ug/l	99

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

