

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121219\
 Data File : VX013994.D
 Acq On : 13 Dec 2019 00:07
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

apatel
 12/13/2019 11:25:48 AM

Quant Time: Dec 13 01:30:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:15:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	86731	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	493742	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	456279	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	189741	29.57	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.57%
60) 4-Bromofluorobenzene	11.14	95	225683	30.67	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.23%
63) Toluene-d8	8.71	98	597695	28.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	438938	72.001	ug/l 99
3) Chloromethane	1.31	50	615401	88.307	ug/l 97
4) Vinyl Chloride	1.40	62	653508	84.369	ug/l 100
5) Bromomethane	1.62	94	451842	92.201	ug/l 98
6) Chloroethane	1.70	64	398449	91.580	ug/l 98
7) Trichlorofluoromethane	1.91	101	810433	94.192	ug/l 100
8) Diethyl Ether	2.18	74	383626	97.485	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	2.37	101	482135	93.687	ug/l 99
10) 1,1-Dichloroethene	2.36	96	509896	96.100	ug/l 99
11) Methyl Iodide	2.50	142	725412	109.780	ug/l 99
12) Methyl Acetate	2.77	43	770430	84.424	ug/l 99
13) Acrolein	2.28	56	498569	496.297	ug/l 99
14) Acrylonitrile	3.13	53	1531991	452.834	ug/l 100
15) Acetone	2.44	58	429292	433.689	ug/l 90
16) Carbon Disulfide	2.56	76	1424818	96.914	ug/l 99
17) Allyl chloride	2.72	41	932183	95.723	ug/l 98
18) Methylene Chloride	2.84	84	590938	96.287	ug/l 97
19) trans-1,2-Dichloroethene	3.16	96	554169	97.178	ug/l 99
20) Diisopropyl ether	3.84	45	1874669	98.548	ug/l 97
21) 1,1-Dichloroethane	3.69	63	1012283	97.980	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	638605	97.782	ug/l 99
23) tert-Butyl Alcohol	3.05	59	603366m	377.919	ug/l
24) Methyl tert-Butyl Ether	3.19	73	1729862	97.939	ug/l 99
25) Chloroform	5.20	83	974916	96.716	ug/l 100
26) Cyclohexane	5.57	56	914639	97.418	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	744965	99.067	ug/l 100
30) 2-Butanone	4.66	43	2160649	450.646	ug/l 99
31) 2,2-Dichloropropane	4.57	77	699967	88.798	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	828315	99.809	ug/l 99
33) Carbon Tetrachloride	5.78	117	715913	99.812	ug/l 98
34) Benzene	6.13	78	2303401	100.770	ug/l 97
35) Methacrylonitrile	5.03	41	473123	96.383	ug/l 96
36) 1,2-Dichloroethane	6.18	62	789384	99.326	ug/l 100
37) Trichloroethene	7.20	130	626111	101.839	ug/l 96
38) Methylcyclohexane	7.46	83	911244	99.657	ug/l 98
39) 1,2-Dichloropropane	7.51	63	605636	102.268	ug/l 93
40) Dibromomethane	7.65	93	383113	98.045	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	777219	102.678	ug/l	99
42) Vinyl Acetate	3.80	43	7948961	508.826	ug/l	100
43) Ethyl Acetate	4.82	43	846643	95.321	ug/l	99
44) Isopropyl Acetate	6.44	43	1419760	98.565	ug/l	99
45) 1,4-Dioxane	7.73	88	265953	1695.576	ug/l	98
46) Methyl methacrylate	7.76	41	715759	99.768	ug/l	99
47) n-amyl Acetate	10.89	43	1344292	105.690	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	880589	103.997	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	965264	103.655	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	591529	101.726	ug/l	100
51) Ethyl methacrylate	9.17	69	996910	104.422	ug/l	98
52) 1,3-Dichloropropane	9.37	76	1002486	100.759	ug/l	99
53) Dibromochloromethane	9.58	129	639157	104.896	ug/l	98
54) 1,2-Dibromoethane	9.67	107	621203	100.877	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	2079793	509.071	ug/l	99
56) Bromoform	10.86	173	511318	105.844	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	4407077	470.064	ug/l	99
59) 2-Hexanone	9.49	43	3366865	458.836	ug/l	99
61) Tetrachloroethene	9.33	164	590448	103.341	ug/l	97
62) Toluene	8.78	91	2486519	98.302	ug/l	99
64) Chlorobenzene	10.14	112	1571844	98.866	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.21	131	593594	100.470	ug/l	100
66) Ethyl Benzene	10.25	91	2799807	100.636	ug/l	98
67) m/p-Xylenes	10.36	106	2151051	200.249	ug/l	98
68) o-Xylene	10.70	106	1058857	101.618	ug/l	99
69) Styrene	10.71	104	1832137	103.613	ug/l	99
70) Isopropylbenzene	11.01	105	2735416	100.340	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	958439	98.275	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	865698m	102.544	ug/l	
73) Bromobenzene	11.25	156	727816	100.877	ug/l	100
74) n-propylbenzene	11.35	91	3143140	101.450	ug/l	98
75) 2-Chlorotoluene	11.42	91	1869191	101.016	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	2344636	102.094	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	317765	98.597	ug/l	88
78) 4-Chlorotoluene	11.51	91	2173424	102.462	ug/l	98
79) tert-butylbenzene	11.77	119	2324797	101.184	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	2357693	102.824	ug/l	99
81) sec-Butylbenzene	11.94	105	2701293	102.242	ug/l	99
82) p-Isopropyltoluene	12.06	119	2482136	102.508	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	1298304	102.482	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	1294976	102.844	ug/l	100
85) n-Butylbenzene	12.39	91	2166389	104.366	ug/l	99
86) Hexachloroethane	12.59	117	468034	105.892	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	1304408	103.041	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	204513	95.023	ug/l	96
89) 1,2,4-Trichlorobenzene	13.64	180	898051	104.513	ug/l	100
90) Hexachlorobutadiene	13.78	225	402404	97.297	ug/l	98
91) Naphthalene	13.83	128	2723544	101.157	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	892994	103.058	ug/l	98

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

