

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111119\
 Data File : VX013369.D
 Acq On : 11 Nov 2019 17:16
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 11/12/2019 11:49:42 AM

Quant Time: Nov 12 01:13:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:01:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	119748	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	680994	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	613851	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	259999	28.07	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.57%
60) 4-Bromofluorobenzene	11.14	95	294836	28.08	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.60%
63) Toluene-d8	8.71	98	833343	30.52	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	470683	54.761	ug/l 99
3) Chloromethane	1.31	50	498754	63.076	ug/l 99
4) Vinyl Chloride	1.40	62	576213	68.996	ug/l 99
5) Bromomethane	1.62	94	326463	74.754	ug/l 98
6) Chloroethane	1.71	64	305315	59.958	ug/l 97
7) Trichlorofluoromethane	1.92	101	592919	48.556	ug/l 97
8) Diethyl Ether	2.17	74	272919	61.603	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	366999	48.884	ug/l 99
10) 1,1-Dichloroethene	2.36	96	369716	50.816	ug/l 99
11) Methyl Iodide	2.50	142	475203	51.082	ug/l 99
12) Methyl Acetate	2.76	43	663266	66.345	ug/l 99
13) Acrolein	2.28	56	336621	245.211	ug/l 100
14) Acrylonitrile	3.13	53	1199406	296.016	ug/l 98
15) Acetone	2.43	58	364666	272.925	ug/l 98
16) Carbon Disulfide	2.56	76	1042151	53.114	ug/l 100
17) Allyl chloride	2.72	41	686973	57.607	ug/l 99
18) Methylene Chloride	2.84	84	414379	49.426	ug/l 99
19) trans-1,2-Dichloroethene	3.16	96	396061	51.334	ug/l 98
20) Diisopropyl ether	3.84	45	1314922	57.341	ug/l # 86
21) 1,1-Dichloroethane	3.69	63	714535	52.301	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	450360	51.286	ug/l 98
23) tert-Butyl Alcohol	3.03	59	559706	269.446	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	1228710	49.227	ug/l 100
25) Chloroform	5.20	83	689947	48.686	ug/l 98
26) Cyclohexane	5.57	56	652284	54.049	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	536742	51.731	ug/l 98
30) 2-Butanone	4.65	43	1768435	306.373	ug/l 99
31) 2,2-Dichloropropane	4.57	77	581637	48.590	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	595455	47.788	ug/l 98
33) Carbon Tetrachloride	5.77	117	513779	47.777	ug/l 99
34) Benzene	6.13	78	1620309	53.421	ug/l 100
35) Methacrylonitrile	5.03	41	360851	61.364	ug/l 98
36) 1,2-Dichloroethane	6.18	62	561426	49.659	ug/l 100
37) Trichloroethene	7.20	130	428071	51.283	ug/l 96
38) Methylcyclohexane	7.46	83	657559	51.409	ug/l 99
39) 1,2-Dichloropropane	7.51	63	421426	56.094	ug/l 100
40) Dibromomethane	7.65	93	276974	52.304	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	544546	51.114	ug/l	98
42) Vinyl Acetate	3.80	43	5590707	287.028	ug/l	100
43) Ethyl Acetate	4.82	43	639684	60.575	ug/l	97
44) Isopropyl Acetate	6.43	43	1031431	59.438	ug/l	99
45) 1,4-Dioxane	7.73	88	226157	1065.731	ug/l	99
46) Methyl methacrylate	7.76	41	520716	60.956	ug/l	98
47) n-amyl Acetate	10.89	43	921950	62.123	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	614877	52.541	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	685544	53.724	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	408666	52.069	ug/l	98
51) Ethyl methacrylate	9.17	69	683163	55.239	ug/l	99
52) 1,3-Dichloropropane	9.37	76	698324	52.753	ug/l	99
53) Dibromochloromethane	9.57	129	444636	52.750	ug/l	98
54) 1,2-Dibromoethane	9.67	107	438563	52.358	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	1387364	270.833	ug/l	100
56) Bromoform	10.85	173	349148	57.123	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	3320179	310.200	ug/l	100
59) 2-Hexanone	9.48	43	2620412	310.790	ug/l	100
61) Tetrachloroethene	9.33	164	382950	48.730	ug/l	96
62) Toluene	8.78	91	1736808	52.465	ug/l	99
64) Chlorobenzene	10.14	112	1088798	51.672	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	411478	52.312	ug/l	99
66) Ethyl Benzene	10.25	91	1927352	51.027	ug/l	99
67) m/p-Xylenes	10.35	106	1481623	103.329	ug/l	100
68) o-Xylene	10.70	106	716528	51.966	ug/l	98
69) Styrene	10.71	104	1237501	52.450	ug/l	99
70) Isopropylbenzene	11.01	105	1882081	50.246	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	672589	56.610	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	533757m	54.186	ug/l	
73) Bromobenzene	11.25	156	488796	53.269	ug/l	98
74) n-propylbenzene	11.35	91	2166883	52.349	ug/l	100
75) 2-Chlorotoluene	11.42	91	1257012	49.060	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	1577990	49.979	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	237865	59.444	ug/l	96
78) 4-Chlorotoluene	11.51	91	1449954	49.405	ug/l	100
79) tert-butylbenzene	11.76	119	1587365	51.481	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	1578068	50.082	ug/l	99
81) sec-Butylbenzene	11.94	105	1835137	50.856	ug/l	100
82) p-Isopropyltoluene	12.06	119	1683728	50.816	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	860668	51.877	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	844341	51.450	ug/l	100
85) n-Butylbenzene	12.39	91	1464555	51.880	ug/l	99
86) Hexachloroethane	12.59	117	309417	53.251	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	852334	52.827	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	153106	54.185	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	602405	58.627	ug/l	98
90) Hexachlorobutadiene	13.78	225	283626	54.611	ug/l	98
91) Naphthalene	13.83	128	1948278	58.623	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	608202	57.857	ug/l	99

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

