

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121719\
 Data File : VX014072.D
 Acq On : 18 Dec 2019 00:45
 Operator : JC/SP
 Sample : VX1217WBSD02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX1217WBSD02

Manual Integrations
 APPROVED

apatel
 12/18/2019 11:05:22 AM

Quant Time: Dec 18 08:11:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	91194	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	498494	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	457283	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	190389	29.15	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.17%
60) 4-Bromofluorobenzene	11.14	95	215593	29.20	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.33%
63) Toluene-d8	8.71	98	619059	30.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.97%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.19	85	84697	18.386	ug/l	99
3) Chloromethane	1.32	50	125729	19.365	ug/l	97
4) Vinyl Chloride	1.40	62	127122	19.100	ug/l	98
5) Bromomethane	1.63	94	80674	16.581	ug/l	98
6) Chloroethane	1.72	64	80174	19.502	ug/l	98
7) Trichlorofluoromethane	1.92	101	157919	19.068	ug/l	99
8) Diethyl Ether	2.18	74	74986	19.698	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.37	101	92928	18.813	ug/l	99
10) 1,1-Dichloroethene	2.37	96	97960	19.183	ug/l	99
11) Methyl Iodide	2.50	142	127135	19.339	ug/l	96
12) Methyl Acetate	2.76	43	161052	20.372	ug/l	100
13) Acrolein	2.28	56	92303	96.265	ug/l	96
14) Acrylonitrile	3.13	53	317437	102.713	ug/l	100
15) Acetone	2.43	58	145602	160.376	ug/l	85
16) Carbon Disulfide	2.56	76	269570	19.486	ug/l	98
17) Allyl chloride	2.72	41	179407	19.551	ug/l	96
18) Methylene Chloride	2.85	84	113384	18.120	ug/l	96
19) trans-1,2-Dichloroethene	3.15	96	106657	19.073	ug/l	99
20) Diisopropyl ether	3.84	45	362147	19.233	ug/l	93
21) 1,1-Dichloroethane	3.69	63	196022	19.182	ug/l	99
22) cis-1,2-Dichloroethene	4.59	96	122804	18.944	ug/l	98
23) tert-Butyl Alcohol	3.03	59	137426	113.370	ug/l	100
24) Methyl tert-Butyl Ether	3.19	73	332407	19.270	ug/l	100
25) Chloroform	5.20	83	191258	19.631	ug/l	97
26) Cyclohexane	5.58	56	171363	18.806	ug/l	# 100
29) 1,1-Dichloropropene	5.79	75	145739	20.240	ug/l	98
30) 2-Butanone	4.65	43	540597	127.373	ug/l	100
31) 2,2-Dichloropropane	4.58	77	127066	19.077	ug/l	100
32) 1,1,1-Trichloroethane	5.49	97	156701	19.675	ug/l	99
33) Carbon Tetrachloride	5.78	117	130867	19.330	ug/l	99
34) Benzene	6.14	78	447011	19.909	ug/l	97
35) Methacrylonitrile	5.03	41	93743	20.537	ug/l	98
36) 1,2-Dichloroethane	6.18	62	153123	19.633	ug/l	100
37) Trichloroethene	7.21	130	125780	20.588	ug/l	93
38) Methylcyclohexane	7.46	83	169285	19.709	ug/l	97
39) 1,2-Dichloropropane	7.51	63	115284	19.769	ug/l	95
40) Dibromomethane	7.65	93	74550	20.012	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.89	83	140985	19.545	ug/l #	99
42) Vinyl Acetate	3.80	43	861925	57.521	ug/l	97
43) Ethyl Acetate	4.82	43	169983	20.872	ug/l	99
44) Isopropyl Acetate	6.43	43	272250	19.960	ug/l	100
45) 1,4-Dioxane	7.73	88	57253	448.229	ug/l	98
46) Methyl methacrylate	7.76	41	131323	19.821	ug/l	100
47) n-amyl Acetate	10.89	43	219633	18.109	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	150767	19.150	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	167907	18.965	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	111132	19.330	ug/l	98
51) Ethyl methacrylate	9.17	69	174856	19.121	ug/l	99
52) 1,3-Dichloropropane	9.37	76	195923	20.058	ug/l	99
53) Dibromochloromethane	9.58	129	111301	19.361	ug/l	100
54) 1,2-Dibromoethane	9.67	107	118586	20.033	ug/l	96
55) 2-Chloroethyl vinyl ether	8.31	63	403105	99.996	ug/l	100
56) Bromoform	10.85	173	83206	18.560	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	880731	102.937	ug/l	99
59) 2-Hexanone	9.48	43	726631	111.909	ug/l	100
61) Tetrachloroethene	9.33	164	174512	28.848	ug/l	98
62) Toluene	8.78	91	479361	19.710	ug/l	99
64) Chlorobenzene	10.14	112	293778	19.280	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	106837	18.936	ug/l	98
66) Ethyl Benzene	10.25	91	511402	19.214	ug/l	100
67) m/p-Xylenes	10.35	106	390600	38.390	ug/l	100
68) o-Xylene	10.70	106	188906	18.742	ug/l	99
69) Styrene	10.71	104	315478	18.405	ug/l	99
70) Isopropylbenzene	11.01	105	496810	19.074	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	154678	16.746	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	162533m	19.768	ug/l	
73) Bromobenzene	11.25	156	130019	18.699	ug/l	99
74) n-propylbenzene	11.35	91	555012	18.787	ug/l	98
75) 2-Chlorotoluene	11.42	91	338233	18.948	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	417189	18.881	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	49504	18.233	ug/l	96
78) 4-Chlorotoluene	11.51	91	377665	18.515	ug/l	99
79) tert-butylbenzene	11.76	119	350315	16.449	ug/l	91
80) 1,2,4-Trimethylbenzene	11.81	105	406795	18.412	ug/l	99
81) sec-Butylbenzene	11.94	105	474231	18.720	ug/l	99
82) p-Isopropyltoluene	12.06	119	422504	18.482	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	218749	18.050	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	217500	18.023	ug/l	99
85) n-Butylbenzene	12.39	91	343446	17.869	ug/l	99
86) Hexachloroethane	12.59	117	71314	17.196	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	225529	18.321	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	34671	18.832	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	135078	17.169	ug/l	98
90) Hexachlorobutadiene	13.78	225	66144	17.687	ug/l	96
91) Naphthalene	13.83	128	429239	18.152	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	141248	17.701	ug/l	99

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

