

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020520\
 Data File : VX014825.D
 Acq On : 05 Feb 2020 16:17
 Operator : JC/SP
 Sample : L1377-03MSD
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BW-2MSD

Manual Integrations
 APPROVED

MMDadoda
 2/6/2020 1:32:50 PM

Quant Time: Feb 06 04:00:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	69319	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	376670	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	339356	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	147717	30.32	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.07%
60) 4-Bromofluorobenzene	11.13	95	162238	29.88	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.60%
63) Toluene-d8	8.71	98	466032	30.40	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	96714	20.188	ug/l 99
3) Chloromethane	1.32	50	99580	18.986	ug/l 94
4) Vinyl Chloride	1.40	62	114486	19.440	ug/l 98
5) Bromomethane	1.64	94	66953	18.219	ug/l 98
6) Chloroethane	1.72	64	66167	19.930	ug/l 94
7) Trichlorofluoromethane	1.93	101	130857	20.068	ug/l 99
8) Diethyl Ether	2.18	74	57193	20.080	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.38	101	78276	20.518	ug/l 98
10) 1,1-Dichloroethene	2.37	96	76104	19.832	ug/l 97
11) Methyl Iodide	2.51	142	102827	19.981	ug/l 100
12) Methyl Acetate	2.76	43	139163	20.075	ug/l 97
13) Acrolein	2.28	56	65629	90.134	ug/l 100
14) Acrylonitrile	3.13	53	230044	96.985	ug/l 99
15) Acetone	2.43	58	59012	74.211	ug/l 79
16) Carbon Disulfide	2.56	76	196015	18.599	ug/l 99
17) Allyl chloride	2.72	41	134217	18.899	ug/l 94
18) Methylene Chloride	2.85	84	87649	19.516	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	80764	19.551	ug/l 99
20) Diisopropyl ether	3.84	45	277455	19.747	ug/l 99
21) 1,1-Dichloroethane	3.69	63	151210	19.809	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	94072	19.817	ug/l 98
23) tert-Butyl Alcohol	3.02	59	89006	90.734	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	259506	20.320	ug/l 98
25) Chloroform	5.20	83	149366	20.200	ug/l 99
26) Cyclohexane	5.58	56	133692	18.988	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	109100	19.749	ug/l 99
30) 2-Butanone	4.65	43	318346	90.973	ug/l 100
31) 2,2-Dichloropropane	4.58	77	115800	19.591	ug/l 97
32) 1,1,1-Trichloroethane	5.48	97	123667	20.235	ug/l 99
33) Carbon Tetrachloride	5.78	117	106984	20.390	ug/l 99
34) Benzene	6.14	78	341396	20.000	ug/l 97
35) Methacrylonitrile	5.03	41	68669	19.648	ug/l 97
36) 1,2-Dichloroethane	6.18	62	120785	20.332	ug/l 100
37) Trichloroethene	7.21	130	91936	19.670	ug/l 99
38) Methylcyclohexane	7.46	83	132619	19.281	ug/l 98
39) 1,2-Dichloropropane	7.51	63	87105	19.623	ug/l 94
40) Dibromomethane	7.65	93	57918	20.303	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	112783	20.189	ug/l	99
42) Vinyl Acetate	3.80	43	1047103	97.082	ug/l	99
43) Ethyl Acetate	4.83	43	121648	19.203	ug/l	96
44) Isopropyl Acetate	6.43	43	201837	19.751	ug/l	99
45) 1,4-Dioxane	7.73	88	36004	352.213	ug/l	97
46) Methyl methacrylate	7.76	41	98792	19.658	ug/l	99
47) n-amyl Acetate	10.89	43	165589	19.339	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	120766	19.801	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	132647	19.302	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	89536	20.626	ug/l	98
51) Ethyl methacrylate	9.17	69	131378	19.438	ug/l	97
52) 1,3-Dichloropropane	9.37	76	148312	20.166	ug/l	100
53) Dibromochloromethane	9.57	129	88988	20.042	ug/l	100
54) 1,2-Dibromoethane	9.67	107	91807	20.393	ug/l	99
56) Bromoform	10.85	173	67241	19.661	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	634193	99.238	ug/l	99
59) 2-Hexanone	9.48	43	477546	96.622	ug/l	99
61) Tetrachloroethene	9.33	164	90940	18.131	ug/l	99
62) Toluene	8.78	91	368329	20.458	ug/l	100
64) Chlorobenzene	10.14	112	229132	20.386	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.21	131	85329	20.556	ug/l	99
66) Ethyl Benzene	10.25	91	398429	20.317	ug/l	100
67) m/p-Xylenes	10.35	106	305215	40.632	ug/l	100
68) o-Xylene	10.70	106	147511	20.166	ug/l	99
69) Styrene	10.71	104	245100	19.777	ug/l	99
70) Isopropylbenzene	11.01	105	392155	20.464	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	136368	21.126	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	110013m	19.924	ug/l	
73) Bromobenzene	11.25	156	103152	20.306	ug/l	98
74) n-propylbenzene	11.35	91	443971	20.275	ug/l	99
75) 2-Chlorotoluene	11.42	91	268998	20.497	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	326999	20.479	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	39081	18.391	ug/l	97
78) 4-Chlorotoluene	11.51	91	303150	20.340	ug/l	99
79) tert-butylbenzene	11.76	119	311983	20.881	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	324473	20.374	ug/l	100
81) sec-Butylbenzene	11.94	105	374496	20.256	ug/l	98
82) p-Isopropyltoluene	12.06	119	340928	20.200	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	178520	20.127	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	181268	20.613	ug/l	99
85) n-Butylbenzene	12.39	91	288326	19.524	ug/l	98
86) Hexachloroethane	12.59	117	59601	19.692	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	183646	20.520	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	27598	20.015	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	120696	20.432	ug/l	99
90) Hexachlorobutadiene	13.78	225	59350	20.107	ug/l	99
91) Naphthalene	13.83	128	369140	20.701	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	126871	21.100	ug/l	98

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

