

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010920\
 Data File : VX014489.D
 Acq On : 09 Jan 2020 11:14
 Operator : JC/SP
 Sample : VX0109WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0109WBS01

Manual Integrations
 APPROVED

apatel
 1/10/2020 8:34:46 AM

Quant Time: Jan 09 14:45:49 2020
 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	77540	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	442309	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	399524	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	164081	29.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.50%
60) 4-Bromofluorobenzene	11.13	95	195910	30.37	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.23%
63) Toluene-d8	8.71	98	540553	30.27	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	74031	18.901	ug/l 98
3) Chloromethane	1.32	50	105423	19.097	ug/l 94
4) Vinyl Chloride	1.40	62	112827	19.937	ug/l 100
5) Bromomethane	1.64	94	67191	16.242	ug/l 99
6) Chloroethane	1.72	64	73289	20.966	ug/l 100
7) Trichlorofluoromethane	1.92	101	150379	21.354	ug/l 100
8) Diethyl Ether	2.18	74	65945	20.373	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	2.37	101	91483	21.782	ug/l 98
10) 1,1-Dichloroethene	2.37	96	86952	20.026	ug/l 96
11) Methyl Iodide	2.50	142	104248	18.650	ug/l 98
12) Methyl Acetate	2.76	43	133191	19.814	ug/l 97
13) Acrolein	2.28	56	72800	89.294	ug/l 99
14) Acrylonitrile	3.12	53	253972	96.649	ug/l 98
15) Acetone	2.43	58	86139	111.587	ug/l 97
16) Carbon Disulfide	2.56	76	230888	19.629	ug/l 99
17) Allyl chloride	2.72	41	156385	20.043	ug/l 98
18) Methylene Chloride	2.85	84	102940	19.348	ug/l 96
19) trans-1,2-Dichloroethene	3.15	96	95060	19.992	ug/l 98
20) Diisopropyl ether	3.84	45	323448	20.203	ug/l 95
21) 1,1-Dichloroethane	3.69	63	174480	20.080	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	110905	20.121	ug/l 99
23) tert-Butyl Alcohol	3.02	59	108077	104.858	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	294488	20.078	ug/l 99
25) Chloroform	5.20	83	168114	20.294	ug/l 98
26) Cyclohexane	5.57	56	161239	20.810	ug/l 99
29) 1,1-Dichloropropene	5.79	75	129968	20.342	ug/l 100
30) 2-Butanone	4.65	43	387960	103.021	ug/l 99
31) 2,2-Dichloropropane	4.57	77	141214	23.894	ug/l 97
32) 1,1,1-Trichloroethane	5.48	97	141512	20.025	ug/l 99
33) Carbon Tetrachloride	5.78	117	119525	19.897	ug/l 96
34) Benzene	6.13	78	399939	20.076	ug/l 97
35) Methacrylonitrile	5.03	41	77279	19.080	ug/l 93
36) 1,2-Dichloroethane	6.18	62	134603	19.451	ug/l 99
37) Trichloroethene	7.20	130	110950	20.468	ug/l 94
38) Methylcyclohexane	7.45	83	164939	21.643	ug/l 98
39) 1,2-Dichloropropane	7.50	63	100892	19.499	ug/l 95
40) Dibromomethane	7.65	93	65717	19.882	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	127970	19.995	ug/l	100
42) Vinyl Acetate	3.80	43	1316048	98.984	ug/l	100
43) Ethyl Acetate	4.81	43	144300	19.969	ug/l	99
44) Isopropyl Acetate	6.43	43	232468	19.208	ug/l	99
45) 1,4-Dioxane	7.72	88	48613	428.932	ug/l	99
46) Methyl methacrylate	7.76	41	111154	18.908	ug/l	97
47) n-amyl Acetate	10.89	43	194930	18.114	ug/l	100
48) t-1,3-Dichloropropene	9.03	75	142292	20.370	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	156359	19.904	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	100866	19.773	ug/l	97
51) Ethyl methacrylate	9.17	69	153658	18.937	ug/l	96
52) 1,3-Dichloropropane	9.36	76	170622	19.687	ug/l	99
53) Dibromochloromethane	9.57	129	100577	19.718	ug/l	99
54) 1,2-Dibromoethane	9.67	107	103858	19.774	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	340983	95.330	ug/l	99
56) Bromoform	10.85	173	74538	18.739	ug/l	98
58) 4-Methyl-2-Pentanone	8.63	43	723242	96.751	ug/l	100
59) 2-Hexanone	9.48	43	566856	99.923	ug/l	99
61) Tetrachloroethene	9.33	164	123538	23.374	ug/l	98
62) Toluene	8.78	91	428949	20.187	ug/l	100
64) Chlorobenzene	10.13	112	270047	20.285	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	98323	19.946	ug/l	99
66) Ethyl Benzene	10.25	91	470569	20.236	ug/l	98
67) m/p-Xylenes	10.35	106	358846	40.368	ug/l	100
68) o-Xylene	10.70	106	172542	19.593	ug/l	97
69) Styrene	10.71	104	291758	19.482	ug/l	99
70) Isopropylbenzene	11.01	105	463849	20.383	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	143820	17.821	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	125755m	17.506	ug/l	
73) Bromobenzene	11.25	156	118497	19.506	ug/l	98
74) n-propylbenzene	11.35	91	528754	20.485	ug/l	98
75) 2-Chlorotoluene	11.42	91	315671	20.241	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	388538	20.127	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	47837	20.166	ug/l	92
78) 4-Chlorotoluene	11.51	91	353226	19.820	ug/l	97
79) tert-butylbenzene	11.76	119	363716	19.547	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	378976	19.633	ug/l	98
81) sec-Butylbenzene	11.94	105	450464	20.353	ug/l	99
82) p-Isopropyltoluene	12.06	119	415847	20.820	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	211410	19.966	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	210625	19.977	ug/l	99
85) n-Butylbenzene	12.39	91	351976	20.960	ug/l	100
86) Hexachloroethane	12.59	117	68996	19.042	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	211624	19.677	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	30518	18.973	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	141813	20.631	ug/l	99
90) Hexachlorobutadiene	13.78	225	71514	21.888	ug/l	99
91) Naphthalene	13.83	128	421043	20.379	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	145173	20.822	ug/l	99

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

