

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010978.D
 Acq On : 18 Jul 2019 23:08
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 9:56:31 AM

Quant Time: Jul 19 03:27:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:13:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	40488	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	224086	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	205325	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	80571	24.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	83.10%
60) 4-Bromofluorobenzene	11.13	95	101951	29.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.93%
63) Toluene-d8	8.71	98	270642	28.25	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	141032	61.749	ug/l 97
3) Chloromethane	1.32	50	119683	42.510	ug/l 97
4) Vinyl Chloride	1.41	62	123962	44.022	ug/l 98
5) Bromomethane	1.64	94	64229	35.346	ug/l 100
6) Chloroethane	1.72	64	73287	40.591	ug/l 91
7) Trichlorofluoromethane	1.93	101	204941	55.519	ug/l 99
8) Diethyl Ether	2.19	74	66454	41.490	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	113000	50.838	ug/l 99
10) 1,1-Dichloroethene	2.37	96	112472	50.337	ug/l 97
11) Methyl Iodide	2.51	142	159756	63.349	ug/l 98
12) Methyl Acetate	2.78	43	161454	40.158	ug/l 95
13) Acrolein	2.29	56	91139	166.944	ug/l 100
14) Acrylonitrile	3.14	53	314249	183.760	ug/l 100
15) Acetone	2.45	58	86596	178.085	ug/l 92
16) Carbon Disulfide	2.57	76	296153	49.831	ug/l 99
17) Allyl chloride	2.73	41	165131	33.559	ug/l 98
18) Methylene Chloride	2.85	84	125886	47.329	ug/l 97
19) trans-1,2-Dichloroethene	3.17	96	118334	49.662	ug/l 99
20) Diisopropyl ether	3.85	45	344458	35.208	ug/l 97
21) 1,1-Dichloroethane	3.70	63	196921	40.438	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	136863	48.323	ug/l 99
23) tert-Butyl Alcohol	3.04	59	148463	198.190	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	359766	42.660	ug/l 100
25) Chloroform	5.21	83	215018	47.052	ug/l 100
26) Cyclohexane	5.58	56	180015	39.890	ug/l # 97
29) 1,1-Dichloropropene	5.80	75	155994	47.848	ug/l 99
30) 2-Butanone	4.67	43	426627	177.525	ug/l 100
31) 2,2-Dichloropropane	4.58	77	138771	40.372	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	191961	53.222	ug/l 98
33) Carbon Tetrachloride	5.79	117	169595	56.262	ug/l 97
34) Benzene	6.14	78	473673	47.406	ug/l 97
35) Methacrylonitrile	5.04	41	89927	36.013	ug/l 99
36) 1,2-Dichloroethane	6.19	62	168434	46.782	ug/l 99
37) Trichloroethene	7.21	130	138834	55.445	ug/l 99
38) Methylcyclohexane	7.46	83	201867	49.849	ug/l 99
39) 1,2-Dichloropropane	7.51	63	119142	42.796	ug/l 99
40) Dibromomethane	7.66	93	86360	52.197	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	160270	48.773	ug/l	100
42) Vinyl Acetate	3.81	43	1409658	178.592	ug/l	99
43) Ethyl Acetate	4.83	43	164884	37.984	ug/l	99
44) Isopropyl Acetate	6.45	43	268221	37.705	ug/l	100
45) 1,4-Dioxane	7.74	88	69376	940.031	ug/l	97
46) Methyl methacrylate	7.77	41	130619	37.066	ug/l	97
47) n-amyl Acetate	10.90	43	251352	39.275	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	172669	45.812	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	186371	44.930	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	126009	50.167	ug/l	97
51) Ethyl methacrylate	9.18	69	198385	44.280	ug/l	97
52) 1,3-Dichloropropane	9.37	76	205195	46.872	ug/l	99
53) Dibromochloromethane	9.58	129	141638	56.019	ug/l	99
54) 1,2-Dibromoethane	9.67	107	139326	53.522	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	417309	182.242	ug/l	99
56) Bromoform	10.85	173	107147	55.663	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	868190	183.277	ug/l	99
59) 2-Hexanone	9.49	43	678053	183.257	ug/l	100
61) Tetrachloroethene	9.34	164	135590	57.305	ug/l	97
62) Toluene	8.79	91	551327	50.342	ug/l	100
64) Chlorobenzene	10.13	112	343734	51.420	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.22	131	129639	53.140	ug/l	99
66) Ethyl Benzene	10.25	91	614546	50.274	ug/l	100
67) m/p-Xylenes	10.36	106	469644	103.791	ug/l	95
68) o-Xylene	10.69	106	228294	51.399	ug/l	97
69) Styrene	10.71	104	394076	51.137	ug/l	99
70) Isopropylbenzene	11.02	105	622189	52.452	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	203171	47.717	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	170681m	47.099	ug/l	
73) Bromobenzene	11.26	156	164427	55.010	ug/l	98
74) n-propylbenzene	11.36	91	701353	51.281	ug/l	100
75) 2-Chlorotoluene	11.42	91	409400	50.039	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	528973	52.521	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	59081	41.827	ug/l	92
78) 4-Chlorotoluene	11.51	91	478036	51.285	ug/l	100
79) tert-butylbenzene	11.77	119	510956	52.591	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	530004	52.449	ug/l	100
81) sec-Butylbenzene	11.94	105	605777	52.415	ug/l	100
82) p-Isopropyltoluene	12.06	119	562539	53.304	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	298524	55.859	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	295567	55.326	ug/l	100
85) n-Butylbenzene	12.38	91	486788	50.989	ug/l	99
86) Hexachloroethane	12.60	117	91085	52.339	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	291284	54.143	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	44593	45.756	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	201306	53.010	ug/l	99
90) Hexachlorobutadiene	13.78	225	98042	51.967	ug/l	97
91) Naphthalene	13.83	128	618086	50.452	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	200754	52.272	ug/l	99

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

