

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101619\
 Data File : VX013087.D
 Acq On : 16 Oct 2019 10:57
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 4:51:43 PM

Quant Time: Oct 17 02:30:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 17 02:18:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	30587	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	170043	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	150923	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	70038	32.84	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	109.47%
60) 4-Bromofluorobenzene	11.14	95	78773	31.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.77%
63) Toluene-d8	8.71	98	210871	31.50	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	40145	20.063	ug/l 100
3) Chloromethane	1.32	50	38514	21.495	ug/l 100
4) Vinyl Chloride	1.40	62	37415	20.244	ug/l 100
5) Bromomethane	1.63	94	21952	21.870	ug/l 100
6) Chloroethane	1.72	64	25240	22.443	ug/l 100
7) Trichlorofluoromethane	1.92	101	56529	18.710	ug/l 100
8) Diethyl Ether	2.18	74	21402	20.972	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	34871	20.410	ug/l 100
10) 1,1-Dichloroethene	2.36	96	34763	20.300	ug/l 100
11) Methyl Iodide	2.50	142	38989	17.199	ug/l 100
12) Methyl Acetate	2.76	43	48160	20.120	ug/l 100
13) Acrolein	2.28	56	34374	115.502	ug/l 100
14) Acrylonitrile	3.13	53	101423	106.537	ug/l 100
15) Acetone	2.43	58	41898	143.650	ug/l 100
16) Carbon Disulfide	2.56	76	91771	20.564	ug/l 100
17) Allyl chloride	2.72	41	58655	22.714	ug/l 100
18) Methylene Chloride	2.84	84	40023	20.809	ug/l 100
19) trans-1,2-Dichloroethene	3.16	96	37618	20.690	ug/l 100
20) Diisopropyl ether	3.84	45	117157	21.829	ug/l 100
21) 1,1-Dichloroethane	3.69	63	66440	21.573	ug/l 100
22) cis-1,2-Dichloroethene	4.58	96	42345	20.256	ug/l 100
23) tert-Butyl Alcohol	3.03	59	50706	102.238	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	120334	21.449	ug/l 100
25) Chloroform	5.20	83	69064	20.674	ug/l 100
26) Cyclohexane	5.57	56	59839	21.352	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	50004	20.675	ug/l 100
30) 2-Butanone	4.65	43	155673	115.661	ug/l 100
31) 2,2-Dichloropropane	4.58	77	58477	25.700	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	58779	20.126	ug/l 100
33) Carbon Tetrachloride	5.77	117	50332	19.775	ug/l 100
34) Benzene	6.14	78	153404	21.055	ug/l 100
35) Methacrylonitrile	5.03	41	29247	21.185	ug/l 100
36) 1,2-Dichloroethane	6.18	62	55110	21.007	ug/l 100
37) Trichloroethene	7.21	130	39972	19.101	ug/l 100
38) Methylcyclohexane	7.46	83	60579	19.995	ug/l 100
39) 1,2-Dichloropropane	7.51	63	38737	21.186	ug/l 100
40) Dibromomethane	7.65	93	25318	19.257	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	50417	20.494	ug/l	100
42) Vinyl Acetate	3.80	43	494548	111.888	ug/l	100
43) Ethyl Acetate	4.82	43	51939	20.620	ug/l	100
44) Isopropyl Acetate	6.44	43	88410	21.348	ug/l	100
45) 1,4-Dioxane	7.73	88	20905	400.509	ug/l	100
46) Methyl methacrylate	7.76	41	41462	20.751	ug/l	100
47) n-amyl Acetate	10.89	43	69906	19.245	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	53654	20.569	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	61146	21.432	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	38463	19.852	ug/l	100
51) Ethyl methacrylate	9.17	69	58876	19.553	ug/l	100
52) 1,3-Dichloropropane	9.37	76	65979	20.933	ug/l	100
53) Dibromochloromethane	9.57	129	38659	18.516	ug/l	100
54) 1,2-Dibromoethane	9.67	107	41550	19.700	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	135894	105.406	ug/l	100
56) Bromoform	10.86	173	26145	16.970	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	274721	106.100	ug/l	100
59) 2-Hexanone	9.48	43	216740	108.762	ug/l	100
61) Tetrachloroethene	9.33	164	40600	20.393	ug/l	100
62) Toluene	8.78	91	163900	20.360	ug/l	100
64) Chlorobenzene	10.14	112	103203	20.031	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	37955	20.143	ug/l	100
66) Ethyl Benzene	10.25	91	182282	20.122	ug/l	100
67) m/p-Xylenes	10.36	106	138828	40.238	ug/l	100
68) o-Xylene	10.70	106	67445	19.922	ug/l	100
69) Styrene	10.71	104	113980	19.954	ug/l	100
70) Isopropylbenzene	11.01	105	177934	19.729	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	58686	20.106	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	46980m	19.401	ug/l	100
73) Bromobenzene	11.25	156	41749	17.615	ug/l	100
74) n-propylbenzene	11.35	91	200003	19.689	ug/l	100
75) 2-Chlorotoluene	11.42	91	119341	19.710	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	149833	19.663	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	16934	20.316	ug/l	100
78) 4-Chlorotoluene	11.51	91	138060	19.787	ug/l	100
79) tert-butylbenzene	11.76	119	141145	19.150	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	151407	19.705	ug/l	100
81) sec-Butylbenzene	11.94	105	168146	19.356	ug/l	100
82) p-Isopropyltoluene	12.06	119	150265	18.761	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	77121	18.249	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	75240	18.003	ug/l	100
85) n-Butylbenzene	12.39	91	127762	18.680	ug/l	100
86) Hexachloroethane	12.59	117	25855	19.791	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	74941	18.290	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	12678	19.655	ug/l	100
89) 1,2,4-Trichlorobenzene	13.64	180	45720	16.358	ug/l	100
90) Hexachlorobutadiene	13.78	225	21062	15.769	ug/l	100
91) Naphthalene	13.83	128	158065	18.283	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	45781	16.414	ug/l	100

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

