

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008478.D
 Acq On : 27 Mar 2019 13:13
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 3/28/2019 9:36:22 AM

Quant Time: Mar 28 02:16:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	38955	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	228028	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	198716	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	96763	29.69	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.97%
60) 4-Bromofluorobenzene	11.13	95	104793	30.27	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.90%
63) Toluene-d8	8.71	98	284451	30.16	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	52861	19.845 ug/l	97
3) Chloromethane	1.32	50	69501	19.915 ug/l	98
4) Vinyl Chloride	1.40	62	67771	19.265 ug/l	97
5) Bromomethane	1.64	94	33658	18.465 ug/l	99
6) Chloroethane	1.72	64	41336	17.953 ug/l	99
7) Trichlorofluoromethane	1.93	101	77125	19.752 ug/l	99
8) Diethyl Ether	2.18	74	35344	19.194 ug/l	79
9) 1,1,2-Trichlorotrifluoroet	2.38	101	48088	19.776 ug/l	92
10) 1,1-Dichloroethene	2.37	96	48555	19.683 ug/l	88
11) Methyl Iodide	2.51	142	41636	16.300 ug/l	96
12) Methyl Acetate	3.19	43	38851	19.432 ug/l	94
13) Acrolein	2.29	56	50390	87.851 ug/l	97
14) Acrylonitrile	3.14	53	177462	96.003 ug/l	99
15) Acetone	2.44	58	53142	93.227 ug/l	94
16) Carbon Disulfide	2.57	76	148746	19.383 ug/l	99
17) Allyl chloride	2.73	41	105431	19.017 ug/l	92
18) Methylene Chloride	2.85	84	57271	19.422 ug/l	89
19) trans-1,2-Dichloroethene	3.16	96	51439	19.517 ug/l	88
20) Diisopropyl ether	3.85	45	211725	19.621 ug/l #	94
21) 1,1-Dichloroethane	3.70	63	105389	19.457 ug/l	96
22) cis-1,2-Dichloroethene	4.59	96	59317	19.477 ug/l #	81
23) tert-Butyl Alcohol	3.04	59	70574	94.548 ug/l #	100
24) Methyl tert-Butyl Ether	3.19	73	177558	19.585 ug/l	99
25) Chloroform	5.21	83	95278	19.419 ug/l	97
26) Cyclohexane	5.57	56	104376	19.835 ug/l #	82
29) 1,1-Dichloropropene	5.80	75	75571	19.699 ug/l	93
30) 2-Butanone	4.67	43	265632	94.163 ug/l	94
31) 2,2-Dichloropropane	4.58	77	73822	19.267 ug/l	94
32) 1,1,1-Trichloroethane	5.49	97	76077	19.097 ug/l	95
33) Carbon Tetrachloride	5.78	117	63551	19.067 ug/l	96
34) Benzene	6.14	78	227973	19.441 ug/l #	96
35) Methacrylonitrile	5.04	41	54471	18.988 ug/l	93
36) 1,2-Dichloroethane	6.19	62	82420	19.714 ug/l	97
37) Trichloroethene	7.21	130	52805	19.581 ug/l	89
38) Methylcyclohexane	7.46	83	95810	19.820 ug/l	88
39) 1,2-Dichloropropane	7.51	63	64525	19.400 ug/l	100
40) Dibromomethane	7.66	93	36224	18.801 ug/l	89

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

41) Bromodichloromethane	7.90	83	71186	18.790	ug/l	99
42) Vinyl Acetate	3.81	43	934299	97.701	ug/l #	94
43) Ethyl Acetate	4.83	43	97668	19.236	ug/l #	80
44) Isopropyl Acetate	6.44	43	154781	18.853	ug/l	98
45) 1,4-Dioxane	7.74	88	32109	392.872	ug/l #	84
46) Methyl methacrylate	7.77	41	79087	18.967	ug/l	87
47) n-amyl Acetate	10.90	43	140088	18.785	ug/l	94
48) t-1,3-Dichloropropene	9.04	75	79575	18.596	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	89882	18.779	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	55275	19.321	ug/l	97
51) Ethyl methacrylate	9.18	69	99682	18.724	ug/l	92
52) 1,3-Dichloropropane	9.37	76	98248	19.303	ug/l	99
53) Dibromochloromethane	9.58	129	51998	18.470	ug/l	99
54) 1,2-Dibromoethane	9.67	107	56602	19.192	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	273534	101.843	ug/l	95
56) Bromoform	10.85	173	36475	17.778	ug/l #	98
58) 4-Methyl-2-Pentanone	8.64	43	508164	96.932	ug/l	96
59) 2-Hexanone	9.49	43	399560	96.470	ug/l	96
61) Tetrachloroethene	9.34	164	44028	20.256	ug/l	98
62) Toluene	8.78	91	239068	19.871	ug/l	99
64) Chlorobenzene	10.13	112	139096	19.730	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	47960	19.296	ug/l	98
66) Ethyl Benzene	10.25	91	263349	19.720	ug/l	95
67) m/p-Xylenes	10.35	106	192871	39.597	ug/l	90
68) o-Xylene	10.69	106	93875	19.695	ug/l	92
69) Styrene	10.71	104	162221	19.559	ug/l	96
70) Isopropylbenzene	11.02	105	250440	19.918	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.27	83	91090	19.393	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	78421m	19.752	ug/l	
73) Bromobenzene	11.26	156	57534	19.233	ug/l	76
74) n-propylbenzene	11.36	91	298869	19.953	ug/l	95
75) 2-Chlorotoluene	11.42	91	176261	19.779	ug/l	90
76) 1,3,5-Trimethylbenzene	11.51	105	214848	19.987	ug/l	95
77) t-1,4-Dichloro-2-butene	11.07	75	26947	17.694	ug/l	96
78) 4-Chlorotoluene	11.51	91	201024	19.600	ug/l	91
79) tert-butylbenzene	12.06	119	219969	20.024	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	210952	19.682	ug/l	97
81) sec-Butylbenzene	11.94	105	244901	19.940	ug/l	96
82) p-Isopropyltoluene	12.06	119	219969	20.024	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	104496	19.677	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	104476	19.686	ug/l	97
85) n-Butylbenzene	12.38	91	204726	19.614	ug/l	97
86) Hexachloroethane	12.60	117	34685	18.897	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	105316	19.681	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	20070	19.278	ug/l #	76
89) 1,2,4-Trichlorobenzene	13.65	180	73259	19.847	ug/l	98
90) Hexachlorobutadiene	13.78	225	35910	20.194	ug/l	98
91) Naphthalene	13.83	128	257098	20.330	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	75995	20.439	ug/l	99

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

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