

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\
 Data File : VX013152.D
 Acq On : 21 Oct 2019 13:46
 Operator : JC/SP
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 12:30:19 PM

Quant Time: Oct 22 01:52:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:38:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	26540	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	154603	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	140325	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	62515	30.56	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.87%
60) 4-Bromofluorobenzene	11.14	95	73929	30.11	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.37%
63) Toluene-d8	8.71	98	184707	28.97	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	184781	101.315	ug/l 98
3) Chloromethane	1.32	50	161996	92.821	ug/l 96
4) Vinyl Chloride	1.40	62	167274	94.873	ug/l 96
5) Bromomethane	1.63	94	84194	100.525	ug/l 98
6) Chloroethane	1.70	64	104122	96.658	ug/l 100
7) Trichlorofluoromethane	1.92	101	266159	101.271	ug/l 96
8) Diethyl Ether	2.18	74	88734	93.936	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	161785	98.642	ug/l 97
10) 1,1-Dichloroethene	2.36	96	156588	97.120	ug/l 94
11) Methyl Iodide	2.50	142	220681	110.229	ug/l 100
12) Methyl Acetate	2.76	43	200939	89.893	ug/l 96
13) Acrolein	2.28	56	172158	526.783	ug/l 99
14) Acrylonitrile	3.13	53	419812	450.503	ug/l 99
15) Acetone	2.44	58	141744	445.862	ug/l 98
16) Carbon Disulfide	2.56	76	429436	98.688	ug/l 97
17) Allyl chloride	2.72	41	249864	92.338	ug/l 98
18) Methylene Chloride	2.84	84	172297	94.004	ug/l 98
19) trans-1,2-Dichloroethene	3.15	96	166578	96.826	ug/l 98
20) Diisopropyl ether	3.84	45	479842	92.682	ug/l 95
21) 1,1-Dichloroethane	3.69	63	289860	96.138	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	187835	94.599	ug/l 98
23) tert-Butyl Alcohol	3.04	59	210008	442.466	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	543841	99.206	ug/l 97
25) Chloroform	5.20	83	306277	97.953	ug/l 100
26) Cyclohexane	5.57	56	256619	94.346	ug/l # 97
29) 1,1-Dichloropropene	5.79	75	231420	96.840	ug/l # 86
30) 2-Butanone	4.66	43	610314	446.721	ug/l 99
31) 2,2-Dichloropropane	4.57	77	273989	101.968	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	281371	100.428	ug/l 99
33) Carbon Tetrachloride	5.78	117	250718	104.337	ug/l 97
34) Benzene	6.14	78	668535	95.330	ug/l 99
35) Methacrylonitrile	5.03	41	123594	91.342	ug/l 97
36) 1,2-Dichloroethane	6.18	62	248488	96.989	ug/l 99
37) Trichloroethene	7.20	130	185391	98.045	ug/l 99
38) Methylcyclohexane	7.46	83	289070	99.442	ug/l 99
39) 1,2-Dichloropropane	7.51	63	163994	93.796	ug/l 98
40) Dibromomethane	7.65	93	118208	97.783	ug/l 100

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

41) Bromodichloromethane	7.89	83	242646	101.137	ug/l	98
42) Vinyl Acetate	3.80	43	2126331	468.756	ug/l	100
43) Ethyl Acetate	4.82	43	224781	90.649	ug/l	99
44) Isopropyl Acetate	6.43	43	380050	94.776	ug/l	99
45) 1,4-Dioxane	7.73	88	92127	1837.094	ug/l	99
46) Methyl methacrylate	7.76	41	186912	94.577	ug/l	95
47) n-amyl Acetate	10.89	43	345899	101.220	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	279843	105.530	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	295738	101.480	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	171014	94.296	ug/l	98
51) Ethyl methacrylate	9.17	69	282525	99.186	ug/l	98
52) 1,3-Dichloropropane	9.37	76	290922	95.845	ug/l	100
53) Dibromochloromethane	9.58	129	194431	103.732	ug/l	100
54) 1,2-Dibromoethane	9.67	107	184800	96.956	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	530641	433.020	ug/l	99
56) Bromoform	10.85	173	145038	110.908	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	1142837	451.914	ug/l	99
59) 2-Hexanone	9.49	43	912475	463.282	ug/l	99
61) Tetrachloroethene	9.33	164	168651	93.623	ug/l	95
62) Toluene	8.78	91	725246	95.063	ug/l	100
64) Chlorobenzene	10.14	112	462947	95.418	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	179840	100.316	ug/l	99
66) Ethyl Benzene	10.25	91	852321	97.589	ug/l	98
67) m/p-Xylenes	10.35	106	642296	195.092	ug/l	98
68) o-Xylene	10.70	106	308358	97.159	ug/l	95
69) Styrene	10.71	104	538353	97.680	ug/l	98
70) Isopropylbenzene	11.01	105	842007	97.976	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	254963	92.832	ug/l	97
72) 1,1,2,3-Trichloropropane	11.29	75	208112m	87.497	ug/l	
73) Bromobenzene	11.25	156	200972	98.274	ug/l	98
74) n-propylbenzene	11.35	91	945481	99.226	ug/l	99
75) 2-Chlorotoluene	11.42	91	585698	99.254	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	728186	100.248	ug/l	97
77) t-1,4-Dichloro-2-butene	11.07	75	98640	109.429	ug/l	91
78) 4-Chlorotoluene	11.51	91	675015	99.655	ug/l	99
79) tert-butylbenzene	11.77	119	701561	102.748	ug/l	95
80) 1,2,4-Trimethylbenzene	11.81	105	734787	101.715	ug/l	99
81) sec-Butylbenzene	11.94	105	819522	98.938	ug/l	100
82) p-Isopropyltoluene	12.06	119	776422	102.607	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	378070	102.418	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	379490	101.854	ug/l	99
85) n-Butylbenzene	12.38	91	669592	104.221	ug/l	99
86) Hexachloroethane	12.59	117	138966	106.241	ug/l	94
87) 1,2-Dichlorobenzene	12.38	146	374471	102.165	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	66599	102.578	ug/l	94
89) 1,2,4-Trichlorobenzene	13.64	180	242001	106.427	ug/l	97
90) Hexachlorobutadiene	13.78	225	123637	113.069	ug/l	94
91) Naphthalene	13.83	128	775132	100.995	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	235919	102.891	ug/l	97

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

