

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019476.D
 Acq On : 19 Nov 2020 19:18
 Operator : JC/MD
 Sample : VX1120WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1120WBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/20/2020 12:25:15 PM

Quant Time: Nov 20 02:06:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 20 01:06:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	46021	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	254746	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	237017	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	100305	30.33	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.10%
60) 4-Bromofluorobenzene	11.12	95	115663	29.92	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.73%
63) Toluene-d8	8.70	98	312827	29.61	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	48981	19.148	ug/l 99
3) Chloromethane	1.31	50	56237	19.772	ug/l 97
4) Vinyl Chloride	1.39	62	59220	18.893	ug/l 99
5) Bromomethane	1.62	94	24082	20.175	ug/l 97
6) Chloroethane	1.69	64	15709	17.626	ug/l 96
7) Trichlorofluoromethane	1.90	101	83808	18.765	ug/l 97
8) Diethyl Ether	2.17	74	34502	18.937	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.35	101	46259	18.292	ug/l 99
10) 1,1-Dichloroethene	2.35	96	47419	18.611	ug/l 97
11) Methyl Iodide	2.48	142	54202	16.795	ug/l 98
12) Methyl Acetate	2.75	43	58633	19.193	ug/l 94
13) Acrolein	2.28	56	40562	88.795	ug/l 98
14) Acrylonitrile	3.12	53	145998	97.979	ug/l 99
15) Acetone	2.43	58	40275	93.082	ug/l 98
16) Carbon Disulfide	2.54	76	125305	18.580	ug/l 99
17) Allyl chloride	2.70	41	72083	18.820	ug/l 99
18) Methylene Chloride	2.83	84	59087	19.174	ug/l 99
19) trans-1,2-Dichloroethene	3.14	96	53641	18.850	ug/l 98
20) Diisopropyl ether	3.82	45	157186	19.113	ug/l 98
21) 1,1-Dichloroethane	3.67	63	94803	18.943	ug/l 98
22) cis-1,2-Dichloroethene	4.56	96	62356	18.933	ug/l 99
23) tert-Butyl Alcohol	3.04	59	66832	104.434	ug/l 100
24) Methyl tert-Butyl Ether	3.17	73	168443	19.228	ug/l 100
25) Chloroform	5.17	83	98960	18.826	ug/l 97
26) Cyclohexane	5.54	56	79616	18.584	ug/l # 99
29) 1,1-Dichloropropene	5.76	75	71412	18.245	ug/l 98
30) 2-Butanone	4.64	43	187065	94.609	ug/l 99
31) 2,2-Dichloropropane	4.54	77	78471	17.837	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	84385	18.377	ug/l 99
33) Carbon Tetrachloride	5.74	117	69905	17.938	ug/l 97
34) Benzene	6.11	78	228212	18.766	ug/l 99
35) Methacrylonitrile	5.01	41	39223	19.235	ug/l 96
36) 1,2-Dichloroethane	6.16	62	79989	19.003	ug/l 99
37) Trichloroethene	7.18	130	58299	18.082	ug/l 100
38) Methylcyclohexane	7.44	83	85335	18.040	ug/l 99
39) 1,2-Dichloropropane	7.49	63	55638	18.529	ug/l 98
40) Dibromomethane	7.63	93	38547	18.455	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	75034	18.279	ug/l	98
42) Vinyl Acetate	3.78	43	667912	93.912	ug/l	99
43) Ethyl Acetate	4.79	43	74571	19.594	ug/l	99
44) Isopropyl Acetate	6.42	43	117151	18.967	ug/l	100
45) 1,4-Dioxane	7.72	88	26946	389.190	ug/l	96
46) Methyl methacrylate	7.74	41	58001	19.186	ug/l	97
47) n-amyl Acetate	10.88	43	95120	18.454	ug/l	98
48) t-1,3-Dichloropropene	9.02	75	81282	18.237	ug/l	99
49) cis-1,3-Dichloropropene	8.41	75	89924	18.264	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	58000	18.542	ug/l	94
51) Ethyl methacrylate	9.16	69	82751	18.486	ug/l	96
52) 1,3-Dichloropropane	9.35	76	99594	19.065	ug/l	99
53) Dibromochloromethane	9.56	129	56273	18.049	ug/l	98
54) 1,2-Dibromoethane	9.65	107	61147	18.908	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	232190	94.266	ug/l	99
56) Bromoform	10.84	173	38661	17.499	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	366603	96.818	ug/l	100
59) 2-Hexanone	9.48	43	275573	94.359	ug/l	100
61) Tetrachloroethene	9.32	164	58763	19.026	ug/l	93
62) Toluene	8.76	91	247670	18.682	ug/l	99
64) Chlorobenzene	10.12	112	151452	18.757	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.20	131	55134	18.548	ug/l	100
66) Ethyl Benzene	10.23	91	271012	18.657	ug/l	97
67) m/p-Xylenes	10.34	106	203471	37.400	ug/l	100
68) o-Xylene	10.68	106	97696	18.945	ug/l	98
69) Styrene	10.69	104	160037	18.215	ug/l	98
70) Isopropylbenzene	11.00	105	259620	18.572	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	89939	18.845	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	81949m	19.100	ug/l	
73) Bromobenzene	11.24	156	64840	18.596	ug/l	99
74) n-propylbenzene	11.34	91	305294	18.782	ug/l	99
75) 2-Chlorotoluene	11.40	91	182700	18.746	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	220600	18.624	ug/l	96
77) t-1,4-Dichloro-2-butene	11.06	75	25839	17.572	ug/l	97
78) 4-Chlorotoluene	11.49	91	211754	18.588	ug/l	99
79) tert-butylbenzene	11.76	119	207568	18.269	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	220168	18.495	ug/l	99
81) sec-Butylbenzene	11.93	105	252726	18.530	ug/l	100
82) p-Isopropyltoluene	12.05	119	226643	18.274	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	120007	18.659	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	120970	18.588	ug/l	99
85) n-Butylbenzene	12.37	91	201837	17.834	ug/l	97
86) Hexachloroethane	12.58	117	36534	17.502	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	116580	18.332	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.98	75	17675	17.619	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	74056	17.448	ug/l	99
90) Hexachlorobutadiene	13.76	225	34454	18.059	ug/l	99
91) Naphthalene	13.82	128	238787	17.686	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	76301	17.982	ug/l	99

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

