

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011520\
 Data File : VX014614.D
 Acq On : 15 Jan 2020 12:59
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX011520

Manual Integrations
 APPROVED

MMDadoda
 1/16/2020 9:42:14 AM

Quant Time: Jan 16 01:23:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	75756	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	428543	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	386542	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	160716	30.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.60%
60) 4-Bromofluorobenzene	11.13	95	184722	29.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.53%
63) Toluene-d8	8.71	98	529314	30.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	120260	22.970	ug/l 98
3) Chloromethane	1.32	50	135654	23.666	ug/l 97
4) Vinyl Chloride	1.40	62	144396	22.435	ug/l 98
5) Bromomethane	1.64	94	89736	22.343	ug/l 97
6) Chloroethane	1.72	64	80815	22.274	ug/l 98
7) Trichlorofluoromethane	1.92	101	154165	21.633	ug/l 98
8) Diethyl Ether	2.18	74	66849	21.476	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	2.37	101	94373	22.635	ug/l 99
10) 1,1-Dichloroethene	2.37	96	93042	22.186	ug/l 99
11) Methyl Iodide	2.50	142	99964	17.774	ug/l 99
12) Methyl Acetate	2.76	43	161620	21.334	ug/l 99
13) Acrolein	2.28	56	77811	97.784	ug/l 99
14) Acrylonitrile	3.12	53	265932	102.588	ug/l 99
15) Acetone	2.43	58	87670	100.882	ug/l 82
16) Carbon Disulfide	2.56	76	268320	23.296	ug/l 99
17) Allyl chloride	2.72	41	164634	21.212	ug/l 98
18) Methylene Chloride	2.84	84	107674	21.938	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	100565	22.276	ug/l 96
20) Diisopropyl ether	3.84	45	333100	21.692	ug/l 98
21) 1,1-Dichloroethane	3.69	63	178130	21.353	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	112725	21.729	ug/l 96
23) tert-Butyl Alcohol	3.02	59	113828	106.178	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	304164	21.794	ug/l 99
25) Chloroform	5.20	83	172487	21.345	ug/l 97
26) Cyclohexane	5.56	56	170667	22.180	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	135975	21.635	ug/l 100
30) 2-Butanone	4.65	43	395013	99.218	ug/l 99
31) 2,2-Dichloropropane	4.58	77	145554	21.644	ug/l 97
32) 1,1,1-Trichloroethane	5.48	97	146427	21.059	ug/l 98
33) Carbon Tetrachloride	5.77	117	125800	21.074	ug/l 96
34) Benzene	6.13	78	411690	21.198	ug/l 98
35) Methacrylonitrile	5.02	41	78063	19.633	ug/l 98
36) 1,2-Dichloroethane	6.18	62	137478	20.341	ug/l 100
37) Trichloroethene	7.20	130	114185	21.473	ug/l 92
38) Methylcyclohexane	7.45	83	172680	22.067	ug/l 100
39) 1,2-Dichloropropane	7.50	63	106090	21.007	ug/l 91
40) Dibromomethane	7.65	93	66835	20.593	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	128288	20.184	ug/l	99
42) Vinyl Acetate	3.80	43	1295585	105.580	ug/l	99
43) Ethyl Acetate	4.81	43	138066	19.157	ug/l	99
44) Isopropyl Acetate	6.43	43	235967	20.296	ug/l	98
45) 1,4-Dioxane	7.73	88	48856	420.086	ug/l	99
46) Methyl methacrylate	7.76	41	116786	20.426	ug/l	97
47) n-amyl Acetate	10.89	43	196829	20.205	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	146856	21.164	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	166368	21.278	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	103062	20.868	ug/l	99
51) Ethyl methacrylate	9.17	69	158887	20.662	ug/l	96
52) 1,3-Dichloropropane	9.36	76	171920	20.546	ug/l	97
53) Dibromochloromethane	9.57	129	107179	21.217	ug/l	97
54) 1,2-Dibromoethane	9.67	107	107407	20.970	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	382329	108.185	ug/l	99
56) Bromoform	10.85	173	75734	19.464	ug/l	99
58) 4-Methyl-2-Pentanone	8.63	43	743648	102.160	ug/l	99
59) 2-Hexanone	9.48	43	575489	102.225	ug/l	99
61) Tetrachloroethene	9.33	164	118123	20.675	ug/l	93
62) Toluene	8.78	91	439411	21.426	ug/l	99
64) Chlorobenzene	10.13	112	277501	21.676	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.21	131	97942	20.714	ug/l	99
66) Ethyl Benzene	10.25	91	483989	21.667	ug/l	98
67) m/p-Xylenes	10.36	106	373041	43.599	ug/l	99
68) o-Xylene	10.70	106	176598	21.196	ug/l	100
69) Styrene	10.71	104	301449	21.354	ug/l	99
70) Isopropylbenzene	11.01	105	478036	21.901	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	150640	20.488	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	129785m	20.636	ug/l	
73) Bromobenzene	11.25	156	123755	21.388	ug/l	99
74) n-propylbenzene	11.35	91	549833	22.044	ug/l	99
75) 2-Chlorotoluene	11.42	91	321225	21.489	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	393421	21.631	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	48076	19.862	ug/l	94
78) 4-Chlorotoluene	11.51	91	370297	21.812	ug/l	97
79) tert-butylbenzene	11.76	119	373769	21.963	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	390559	21.530	ug/l	99
81) sec-Butylbenzene	11.94	105	464106	22.039	ug/l	100
82) p-Isopropyltoluene	12.06	119	418339	21.760	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	219846	21.760	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	217964	21.761	ug/l	99
85) n-Butylbenzene	12.39	91	367992	21.877	ug/l	100
86) Hexachloroethane	12.59	117	71226	20.660	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	218892	21.473	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	32052	20.407	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	150024	22.296	ug/l	98
90) Hexachlorobutadiene	13.78	225	75660	22.504	ug/l	97
91) Naphthalene	13.83	128	431918	21.265	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	146688	21.418	ug/l	99

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

