

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019469.D
 Acq On : 19 Nov 2020 16:35
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 11/20/2020 12:25:02 PM

Quant Time: Nov 19 17:29:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 19 17:22:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.97	128	43997	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.82	114	238144	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	227444	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	95884	32.33	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.77%
60) 4-Bromofluorobenzene	11.12	95	109573	31.55	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	105.17%
63) Toluene-d8	8.69	98	304228	30.29	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	50249	21.536	ug/l 100
3) Chloromethane	1.31	50	55216	25.121	ug/l 100
4) Vinyl Chloride	1.39	62	59435	21.579	ug/l 100
5) Bromomethane	1.62	94	23273	12.884	ug/l 100
6) Chloroethane	1.70	64	22029	13.041	ug/l 100
7) Trichlorofluoromethane	1.90	101	83568	18.065	ug/l 100
8) Diethyl Ether	2.17	74	33744	19.265	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.36	101	46962	20.652	ug/l 100
10) 1,1-Dichloroethene	2.35	96	47217	20.445	ug/l 100
11) Methyl Iodide	2.48	142	56338	23.988	ug/l 100
12) Methyl Acetate	2.75	43	56123	23.599	ug/l 100
13) Acrolein	2.27	56	40042	156.839	ug/l 100
14) Acrylonitrile	3.12	53	137068	121.348	ug/l 100
15) Acetone	2.42	58	39941	121.630	ug/l 100
16) Carbon Disulfide	2.54	76	119970	19.032	ug/l 100
17) Allyl chloride	2.70	41	68461	22.916	ug/l 100
18) Methylene Chloride	2.83	84	58165	21.748	ug/l 100
19) trans-1,2-Dichloroethene	3.14	96	51804	19.459	ug/l 100
20) Diisopropyl ether	3.82	45	149993	24.359	ug/l 100
21) 1,1-Dichloroethane	3.67	63	92010	21.248	ug/l 100
22) cis-1,2-Dichloroethene	4.56	96	59904	19.416	ug/l 100
23) tert-Butyl Alcohol	3.04	59	64387	118.259	ug/l 100
24) Methyl tert-Butyl Ether	3.17	73	158794	21.449	ug/l 100
25) Chloroform	5.17	83	96933	20.388	ug/l 100
26) Cyclohexane	5.54	56	77382	22.551	ug/l # 100
29) 1,1-Dichloropropene	5.76	75	68895	19.748	ug/l 100
30) 2-Butanone	4.64	43	180737	122.093	ug/l 100
31) 2,2-Dichloropropane	4.54	77	79260	19.858	ug/l 100
32) 1,1,1-Trichloroethane	5.45	97	82209	19.644	ug/l 100
33) Carbon Tetrachloride	5.75	117	68787	18.994	ug/l 100
34) Benzene	6.10	78	220562	21.125	ug/l 100
35) Methacrylonitrile	5.00	41	36491	23.360	ug/l 100
36) 1,2-Dichloroethane	6.15	62	77123	21.464	ug/l 100
37) Trichloroethene	7.18	130	58045	19.635	ug/l 100
38) Methylcyclohexane	7.43	83	83387	20.966	ug/l 100
39) 1,2-Dichloropropane	7.48	63	55091	22.292	ug/l 100
40) Dibromomethane	7.63	93	38755	20.662	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	72765	19.779	ug/l	100
42) Vinyl Acetate	3.78	43	631901	112.933	ug/l	100
43) Ethyl Acetate	4.79	43	67345	22.306	ug/l	100
44) Isopropyl Acetate	6.41	43	109580	21.787	ug/l	100
45) 1,4-Dioxane	7.71	88	25014	467.858	ug/l	100
46) Methyl methacrylate	7.74	41	53384	22.395	ug/l	100
47) n-amyl Acetate	10.88	43	89342	22.047	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	78492	19.189	ug/l	100
49) cis-1,3-Dichloropropene	8.41	75	86611	19.783	ug/l	100
50) 1,1,2-Trichloroethane	9.20	97	58723	21.372	ug/l	100
51) Ethyl methacrylate	9.16	69	77975	19.810	ug/l	100
52) 1,3-Dichloropropane	9.35	76	96459	21.572	ug/l	100
53) Dibromochloromethane	9.56	129	55637	18.637	ug/l	100
54) 1,2-Dibromoethane	9.65	107	59954	20.359	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	221940	106.668	ug/l	100
56) Bromoform	10.84	173	37921	18.196	ug/l	100
58) 4-Methyl-2-Pentanone	8.62	43	344422	112.383	ug/l	100
59) 2-Hexanone	9.47	43	263784	115.054	ug/l	100
61) Tetrachloroethene	9.32	164	59673	21.033	ug/l	100
62) Toluene	8.76	91	239999	19.425	ug/l	100
64) Chlorobenzene	10.12	112	148399	19.282	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.20	131	53798	19.206	ug/l	100
66) Ethyl Benzene	10.23	91	264877	19.509	ug/l	100
67) m/p-Xylenes	10.34	106	198834	38.466	ug/l	100
68) o-Xylene	10.68	106	93376	18.942	ug/l	100
69) Styrene	10.70	104	158245	18.993	ug/l	100
70) Isopropylbenzene	11.00	105	257226	19.322	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	86852	21.965	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	78213m	22.104	ug/l	100
73) Bromobenzene	11.24	156	63223	19.408	ug/l	100
74) n-propylbenzene	11.34	91	295713	19.608	ug/l	100
75) 2-Chlorotoluene	11.40	91	179978	20.754	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	213923	19.692	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	24271	17.927	ug/l	100
78) 4-Chlorotoluene	11.49	91	207924	20.475	ug/l	100
79) tert-butylbenzene	11.76	119	202173	19.062	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	215362	19.944	ug/l	100
81) sec-Butylbenzene	11.93	105	249922	19.769	ug/l	100
82) p-Isopropyltoluene	12.05	119	222842	19.209	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	117921	20.082	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	118983	19.967	ug/l	100
85) n-Butylbenzene	12.37	91	196946	18.999	ug/l	100
86) Hexachloroethane	12.58	117	35972	19.825	ug/l	100
87) 1,2-Dichlorobenzene	12.37	146	116108	20.540	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	17088	19.553	ug/l	100
89) 1,2,4-Trichlorobenzene	13.63	180	72845	18.318	ug/l	100
90) Hexachlorobutadiene	13.76	225	35534	20.479	ug/l	100
91) Naphthalene	13.82	128	232397	17.942	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	74290	19.223	ug/l	100

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

