

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032520\
 Data File : VX015350.D
 Acq On : 25 Mar 2020 19:39
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

apatel
 3/26/2020 11:01:22 AM

Quant Time: Mar 26 02:30:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 26 02:14:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	184315	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	1068380	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	1003203	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	431285	33.87	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	112.90%
60) 4-Bromofluorobenzene	11.12	95	513693	31.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	105.33%
63) Toluene-d8	8.70	98	1232685	28.40	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	1302129	143.452	ug/l 99
3) Chloromethane	1.31	50	1680704	133.359	ug/l 98
4) Vinyl Chloride	1.39	62	1604416	125.470	ug/l 99
5) Bromomethane	1.62	94	627270	74.713	ug/l 97
6) Chloroethane	1.70	64	971571	120.664	ug/l 98
7) Trichlorofluoromethane	1.91	101	2247490	135.068	ug/l 96
8) Diethyl Ether	2.17	74	891578	123.809	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.36	101	1489111	143.157	ug/l 98
10) 1,1-Dichloroethene	2.35	96	1500966	143.060	ug/l 98
11) Methyl Iodide	2.49	142	2407906	207.985	ug/l 99
12) Methyl Acetate	2.75	43	2191991	162.363	ug/l 98
13) Acrolein	2.27	56	1556991	756.365	ug/l 95
14) Acrylonitrile	3.12	53	4721315	760.804	ug/l 99
15) Acetone	2.42	58	1201066	701.558	ug/l 97
16) Carbon Disulfide	2.55	76	4452501	147.819	ug/l 100
17) Allyl chloride	2.70	41	3358727	164.011	ug/l 98
18) Methylene Chloride	2.83	84	1700905	142.026	ug/l 99
19) trans-1,2-Dichloroethene	3.14	96	1644015	142.748	ug/l 98
20) Diisopropyl ether	3.83	45	6020680	150.916	ug/l # 87
21) 1,1-Dichloroethane	3.67	63	3167829	151.028	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	1923165	148.834	ug/l 98
23) tert-Butyl Alcohol	3.03	59	2284425m	889.552	ug/l
24) Methyl tert-Butyl Ether	3.17	73	5560948	157.459	ug/l 99
25) Chloroform	5.19	83	3104342	156.342	ug/l 99
26) Cyclohexane	5.55	56	2964821	152.358	ug/l # 99
29) 1,1-Dichloropropene	5.77	75	2406466	147.696	ug/l 100
30) 2-Butanone	4.64	43	7037096	787.709	ug/l 100
31) 2,2-Dichloropropane	4.55	77	2818226	161.213	ug/l 99
32) 1,1,1-Trichloroethane	5.47	97	2913928	160.599	ug/l 99
33) Carbon Tetrachloride	5.76	117	2657816	168.658	ug/l 98
34) Benzene	6.12	78	6874517	140.796	ug/l 99
35) Methacrylonitrile	5.01	41	1664118	169.066	ug/l 96
36) 1,2-Dichloroethane	6.17	62	2692374	160.358	ug/l 99
37) Trichloroethene	7.19	130	1985688	145.426	ug/l 99
38) Methylcyclohexane	7.44	83	2978319	148.205	ug/l 99
39) 1,2-Dichloropropane	7.50	63	1866507	145.642	ug/l 96
40) Dibromomethane	7.64	93	1233678	150.563	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	2677802	161.049	ug/l	100
42) Vinyl Acetate	3.78	43	24494865	688.423	ug/l	97
43) Ethyl Acetate	4.80	43	2824612	163.344	ug/l	99
44) Isopropyl Acetate	6.42	43	5007111	171.418	ug/l	99
45) 1,4-Dioxane	7.72	88	934797	3248.514	ug/l	98
46) Methyl methacrylate	7.75	41	2511559	172.605	ug/l	98
47) n-amyl Acetate	10.89	43	4522219	173.913	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	3172608	173.168	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	3214940	158.474	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	1782479	147.822	ug/l	99
51) Ethyl methacrylate	9.16	69	3125242	162.863	ug/l	97
52) 1,3-Dichloropropane	9.36	76	3070020	149.607	ug/l	99
53) Dibromochloromethane	9.57	129	2249320	169.425	ug/l	100
54) 1,2-Dibromoethane	9.66	107	1941682	154.962	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	6961039	727.312	ug/l	99
56) Bromoform	10.84	173	1939730	186.099	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	12934578	727.736	ug/l	95
59) 2-Hexanone	9.48	43	10157998	756.983	ug/l	95
61) Tetrachloroethene	9.32	164	1905365	138.096	ug/l	97
62) Toluene	8.77	91	7295593	137.275	ug/l	98
64) Chlorobenzene	10.12	112	4857693	144.799	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	2039184	161.943	ug/l	98
66) Ethyl Benzene	10.24	91	8345270	141.236	ug/l	94
67) m/p-Xylenes	10.34	106	6421288	284.437	ug/l	88
68) o-Xylene	10.68	106	3162155	145.324	ug/l	93
69) Styrene	10.70	104	5496066	145.259	ug/l	100
70) Isopropylbenzene	11.01	105	8137353	140.855	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.26	83	2769344	147.840	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	2530724m	160.857	ug/l	
73) Bromobenzene	11.24	156	2363088	150.901	ug/l	94
74) n-propylbenzene	11.35	91	9294450	135.924	ug/l	96
75) 2-Chlorotoluene	11.41	91	5821958	144.996	ug/l	96
76) 1,3,5-Trimethylbenzene	11.50	105	7016611	141.423	ug/l	96
77) t-1,4-Dichloro-2-butene	11.06	75	1139888	169.767	ug/l	99
78) 4-Chlorotoluene	11.50	91	6717643	145.480	ug/l	97
79) tert-butylbenzene	11.76	119	7233629	152.277	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	7132494	143.562	ug/l	96
81) sec-Butylbenzene	11.93	105	8111555	139.616	ug/l	97
82) p-Isopropyltoluene	12.05	119	7763404	145.290	ug/l	98
83) 1,3-Dichlorobenzene	12.01	146	4267863	152.611	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	4282319	152.590	ug/l	98
85) n-Butylbenzene	12.37	91	6992997	148.505	ug/l	96
86) Hexachloroethane	12.58	117	1602682	167.854	ug/l	90
87) 1,2-Dichlorobenzene	12.38	146	4133675	151.223	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	739140	179.114	ug/l	90
89) 1,2,4-Trichlorobenzene	13.63	180	3571144	174.676	ug/l	97
90) Hexachlorobutadiene	13.77	225	1979683	189.605	ug/l	99
91) Naphthalene	13.82	128	9067761	156.589	ug/l	98
92) 1,2,3-Trichlorobenzene	14.01	180	3471570	168.654	ug/l	99

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

