

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102219\
 Data File : VX013171.D
 Acq On : 22 Oct 2019 12:32
 Operator : JC/SP
 Sample : VX1022WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1022WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/23/2019 3:10:26 PM

Quant Time: Oct 23 07:49:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:53:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	26384	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	145781	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	129630	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	59848	28.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.03%
60) 4-Bromofluorobenzene	11.13	95	67721	30.00	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.00%
63) Toluene-d8	8.71	98	176890	30.68	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	34373	18.145	ug/l 99
3) Chloromethane	1.32	50	30800	18.650	ug/l 95
4) Vinyl Chloride	1.40	62	30585	17.913	ug/l 95
5) Bromomethane	1.63	94	21095	22.896	ug/l 95
6) Chloroethane	1.72	64	20101	18.448	ug/l 97
7) Trichlorofluoromethane	1.92	101	50466	18.392	ug/l 94
8) Diethyl Ether	2.18	74	17444	18.626	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	31248	18.645	ug/l 96
10) 1,1-Dichloroethene	2.36	96	29156	18.013	ug/l 99
11) Methyl Iodide	2.50	142	31522	15.122	ug/l 98
12) Methyl Acetate	2.76	43	37545	17.963	ug/l 100
13) Acrolein	2.28	56	23864	76.700	ug/l 99
14) Acrylonitrile	3.13	53	77940	89.166	ug/l 99
15) Acetone	2.43	58	26865	93.287	ug/l 86
16) Carbon Disulfide	2.56	76	73385	16.978	ug/l 100
17) Allyl chloride	2.72	41	45258	17.579	ug/l 99
18) Methylene Chloride	2.84	84	32690	17.443	ug/l 92
19) trans-1,2-Dichloroethene	3.15	96	31001	18.050	ug/l 95
20) Diisopropyl ether	3.84	45	89434	17.960	ug/l 90
21) 1,1-Dichloroethane	3.69	63	54350	17.976	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	35323	18.035	ug/l 99
23) tert-Butyl Alcohol	3.02	59	40726	88.435	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	101388	18.163	ug/l 96
25) Chloroform	5.20	83	57530	18.107	ug/l 100
26) Cyclohexane	5.57	56	47683	17.974	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	43085	19.025	ug/l # 85
30) 2-Butanone	4.65	43	112616	94.799	ug/l 98
31) 2,2-Dichloropropane	4.57	77	48899	18.676	ug/l 97
32) 1,1,1-Trichloroethane	5.48	97	51061	18.632	ug/l 99
33) Carbon Tetrachloride	5.77	117	43998	18.680	ug/l 94
34) Benzene	6.13	78	123509	18.944	ug/l 97
35) Methacrylonitrile	5.03	41	21843	17.929	ug/l 97
36) 1,2-Dichloroethane	6.18	62	47346	19.211	ug/l 98
37) Trichloroethene	7.20	130	34299	18.966	ug/l 87
38) Methylcyclohexane	7.45	83	52141	18.878	ug/l 99
39) 1,2-Dichloropropane	7.50	63	30314	18.943	ug/l 95
40) Dibromomethane	7.65	93	21750	19.028	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	42934	18.628	ug/l	92
42) Vinyl Acetate	3.80	43	388821	94.386	ug/l	99
43) Ethyl Acetate	4.81	43	41947	19.360	ug/l	98
44) Isopropyl Acetate	6.43	43	66905	18.373	ug/l	99
45) 1,4-Dioxane	7.73	88	17058	370.403	ug/l	96
46) Methyl methacrylate	7.76	41	32169	17.953	ug/l	98
47) n-amyl Acetate	10.89	43	54808	17.855	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	44943	17.777	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	51761	18.816	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	32103	19.018	ug/l	96
51) Ethyl methacrylate	9.17	69	49290	18.622	ug/l	99
52) 1,3-Dichloropropane	9.37	76	53538	18.833	ug/l	100
53) Dibromochloromethane	9.57	129	33232	18.251	ug/l	98
54) 1,2-Dibromoethane	9.67	107	33583	18.607	ug/l	96
55) 2-Chloroethyl vinyl ether	8.30	63	112409	104.549	ug/l	99
56) Bromoform	10.85	173	23378	18.097	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	207711	95.092	ug/l	99
59) 2-Hexanone	9.48	43	160000	93.465	ug/l	99
61) Tetrachloroethene	9.33	164	34678	20.179	ug/l	96
62) Toluene	8.78	91	137329	19.625	ug/l	98
64) Chlorobenzene	10.14	112	85558	19.069	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	32556	19.370	ug/l	98
66) Ethyl Benzene	10.24	91	155781	19.342	ug/l	100
67) m/p-Xylenes	10.35	106	117858	38.503	ug/l	98
68) o-Xylene	10.70	106	56084	19.193	ug/l	96
69) Styrene	10.71	104	97547	19.399	ug/l	99
70) Isopropylbenzene	11.01	105	154836	19.310	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	47102	19.171	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	39566m	18.541	ug/l	
73) Bromobenzene	11.25	156	36873	19.162	ug/l	98
74) n-propylbenzene	11.35	91	172680	19.621	ug/l	99
75) 2-Chlorotoluene	11.42	91	106608	19.359	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	132964	19.754	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	14565	17.579	ug/l	95
78) 4-Chlorotoluene	11.51	91	120791	19.196	ug/l	97
79) tert-butylbenzene	11.76	119	123669	19.081	ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	130722	19.441	ug/l	99
81) sec-Butylbenzene	11.94	105	147593	19.116	ug/l	98
82) p-Isopropyltoluene	12.06	119	139391	19.745	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	67636	19.247	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	64982	18.697	ug/l	96
85) n-Butylbenzene	12.38	91	109749	18.302	ug/l	98
86) Hexachloroethane	12.59	117	22269	18.073	ug/l	94
87) 1,2-Dichlorobenzene	12.38	146	61799	18.129	ug/l	95
88) 1,2-Dibromo-3-Chloropropan	12.99	75	11172	18.453	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	39817	18.781	ug/l	100
90) Hexachlorobutadiene	13.78	225	19713	18.314	ug/l	97
91) Naphthalene	13.83	128	130682	18.950	ug/l	98
92) 1,2,3-Trichlorobenzene	14.01	180	41652	19.176	ug/l	100

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

