

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011520\
 Data File : VX014609.D
 Acq On : 15 Jan 2020 10:47
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 1/16/2020 9:41:53 AM

Quant Time: Jan 15 12:17:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:07:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	84944	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	458907	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	417232	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	180365	29.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.83%
60) 4-Bromofluorobenzene	11.13	95	194465	28.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.20%
63) Toluene-d8	8.71	98	579647	31.08	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	24234	5.648	ug/l 98
3) Chloromethane	1.32	50	28815	4.765	ug/l 96
4) Vinyl Chloride	1.40	62	31002	5.001	ug/l 96
5) Bromomethane	1.63	94	22110	4.879	ug/l 100
6) Chloroethane	1.72	64	20136	5.258	ug/l 98
7) Trichlorofluoromethane	1.92	101	41450	5.373	ug/l 98
8) Diethyl Ether	2.18	74	17260	4.868	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	23135	5.028	ug/l 96
10) 1,1-Dichloroethene	2.36	96	22677	4.767	ug/l 94
11) Methyl Iodide	2.50	142	22929	3.745	ug/l 99
12) Methyl Acetate	2.76	43	36760	4.992	ug/l 100
13) Acrolein	2.28	56	24426	27.349	ug/l 95
14) Acrylonitrile	3.13	53	66658	23.156	ug/l 98
15) Acetone	2.43	58	21227	25.101	ug/l 89
16) Carbon Disulfide	2.56	76	58601	4.548	ug/l 96
17) Allyl chloride	2.72	41	41400	4.844	ug/l 97
18) Methylene Chloride	2.84	84	28346	4.863	ug/l 93
19) trans-1,2-Dichloroethene	3.16	96	24379	4.680	ug/l 89
20) Diisopropyl ether	3.84	45	82256	4.690	ug/l # 81
21) 1,1-Dichloroethane	3.69	63	46355	4.870	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	28588	4.734	ug/l 96
23) tert-Butyl Alcohol	3.03	59	32218	28.534	ug/l 100
24) Methyl tert-Butyl Ether	3.18	73	74190	4.617	ug/l 93
25) Chloroform	5.20	83	45871	5.055	ug/l 89
26) Cyclohexane	5.57	56	41152	4.848	ug/l # 97
29) 1,1-Dichloropropene	5.79	75	32529	4.907	ug/l 98
30) 2-Butanone	4.66	43	101260	25.917	ug/l 99
31) 2,2-Dichloropropane	4.56	77	35978m	5.868	ug/l
32) 1,1,1-Trichloroethane	5.48	97	37660	5.136	ug/l 98
33) Carbon Tetrachloride	5.78	117	31391	5.037	ug/l 92
34) Benzene	6.13	78	103245	4.995	ug/l 98
35) Methacrylonitrile	5.03	41	19724	4.694	ug/l 91
36) 1,2-Dichloroethane	6.18	62	38853m	5.411	ug/l
37) Trichloroethene	7.20	130	28460	5.060	ug/l 98
38) Methylcyclohexane	7.45	83	38787	4.905	ug/l 99
39) 1,2-Dichloropropane	7.50	63	27199	5.067	ug/l 100
40) Dibromomethane	7.65	93	17418	5.079	ug/l 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011520\
 Data File : VX014609.D
 Acq On : 15 Jan 2020 10:47
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 1/16/2020 9:41:53 AM

Quant Time: Jan 15 12:17:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:07:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	32608	4.911	ug/l	94
42) Vinyl Acetate	3.80	43	325522	23.598	ug/l	99
43) Ethyl Acetate	4.82	43	36553	4.876	ug/l	97
44) Isopropyl Acetate	6.43	43	57408	4.572	ug/l	99
45) 1,4-Dioxane	7.73	88	13211	112.350	ug/l	93
46) Methyl methacrylate	7.76	41	27078	4.440	ug/l	93
47) n-amyl Acetate	10.89	43	42431	3.800	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	30929	4.268	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	37148	4.558	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	26319	4.973	ug/l	99
51) Ethyl methacrylate	9.17	69	36240	4.305	ug/l	94
52) 1,3-Dichloropropane	9.37	76	44883	4.991	ug/l	98
53) Dibromochloromethane	9.57	129	24539	4.637	ug/l	98
54) 1,2-Dibromoethane	9.67	107	26192	4.806	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	95317	25.684	ug/l	99
56) Bromoform	10.85	173	17253	4.180	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	187718	24.046	ug/l	99
59) 2-Hexanone	9.48	43	136145	22.980	ug/l	100
61) Tetrachloroethene	9.33	164	30286	5.487	ug/l	93
62) Toluene	8.78	91	110915	4.998	ug/l	99
64) Chlorobenzene	10.14	112	68375	4.918	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.21	131	24578	4.774	ug/l	98
66) Ethyl Benzene	10.25	91	115013	4.736	ug/l	98
67) m/p-Xylenes	10.36	106	85764	9.239	ug/l	97
68) o-Xylene	10.69	106	42345	4.604	ug/l	99
69) Styrene	10.71	104	66651	4.262	ug/l	98
70) Isopropylbenzene	11.01	105	111746	4.702	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	38307	4.545	ug/l	95
72) 1,2,3-Trichloropropane	11.29	75	36613m	4.881	ug/l	
73) Bromobenzene	11.25	156	30831	4.860	ug/l	96
74) n-propylbenzene	11.35	91	123819	4.594	ug/l	98
75) 2-Chlorotoluene	11.42	91	79774	4.898	ug/l	97
76) 1,3,5-Trimethylbenzene	11.50	105	89239	4.426	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	9344	3.772	ug/l	98
78) 4-Chlorotoluene	11.51	91	86922	4.670	ug/l	100
79) tert-butylbenzene	11.76	119	87351	4.495	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	90137	4.471	ug/l	98
81) sec-Butylbenzene	11.94	105	106389	4.603	ug/l	99
82) p-Isopropyltoluene	12.06	119	92894	4.454	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	51018	4.614	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	51072	4.638	ug/l	98
85) n-Butylbenzene	12.39	91	76386	4.356	ug/l	99
86) Hexachloroethane	12.59	117	15958	4.217	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	53190	4.736	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	7322	4.359	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	30098	4.193	ug/l	95
90) Hexachlorobutadiene	13.78	225	17319	5.076	ug/l	99
91) Naphthalene	13.83	128	85236	3.951	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	32410	4.451	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011520\
Data File : VX014609.D
Acq On : 15 Jan 2020 10:47
Operator : JC/SP
Sample : VSTDICC005
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

MMDadoda
1/16/2020 9:41:53 AM

Quant Time: Jan 15 12:17:07 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jan 15 12:07:57 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

