

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX043018\
 Data File : VX001257.D
 Acq On : 30 Apr 2018 11:27
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 5/2/2018 11:08:03 AM

Quant Time: Apr 30 13:13:29 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Apr 30 12:56:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	38663	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	216110	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	203982	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	84606	28.27	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.23%
60) 4-Bromofluorobenzene	11.14	95	103142	30.91	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.03%
63) Toluene-d8	8.72	98	259622	29.71	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.03%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	132433	55.19	ug/l	97
3) Chloromethane	1.32	50	118056	49.09	ug/l	98
4) Vinyl Chloride	1.41	62	124592	43.54	ug/l	99
5) Bromomethane	1.64	94	92815	35.20	ug/l	99
6) Chloroethane	1.73	64	76527	41.78	ug/l	100
7) Trichlorofluoromethane	1.93	101	206960	41.75	ug/l	99
8) Diethyl Ether	2.19	74	70483	40.72	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	2.39	101	115230	42.61	ug/l	92
10) 1,1-Dichloroethene	2.38	96	105445	40.82	ug/l	91
11) Methyl Iodide	2.51	142	135356	53.91	ug/l	95
12) Methyl Acetate	2.78	43	142066	30.77	ug/l	97
13) Acrolein	2.29	56	85030	153.06	ug/l	99
14) Acrylonitrile	3.15	53	284126	142.03	ug/l	100
15) Acetone	2.45	58	87292	133.85	ug/l	90
16) Carbon Disulfide	2.57	76	281597	38.11	ug/l	97
17) Allyl chloride	2.73	41	190992	43.36	ug/l	97
18) Methylene Chloride	2.86	84	113750	40.41	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	112783	40.13	ug/l	94
20) Diisopropyl ether	3.88	45	365035	52.49	ug/l	96
21) 1,1-Dichloroethane	3.70	63	200072	43.65	ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	126360	48.39	ug/l	98
23) tert-Butyl Alcohol	3.07	59	120119	105.05	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	360547	40.50	ug/l	94
25) Chloroform	5.22	83	215082	47.32	ug/l	99
26) Cyclohexane	5.59	56	180070	50.10	ug/l	# 94
29) 1,1-Dichloropropene	5.81	75	159598	50.71	ug/l	100
30) 2-Butanone	4.71	43	415947	171.70	ug/l	97
31) 2,2-Dichloropropane	4.59	77	170759	50.44	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	192461	50.54	ug/l	98
33) Carbon Tetrachloride	5.79	117	173467	51.30	ug/l	96
34) Benzene	6.15	78	470557	51.96	ug/l	95
35) Methacrylonitrile	5.07	41	90750	40.69	ug/l	94
36) 1,2-Dichloroethane	6.20	62	178755	52.05	ug/l	100
37) Trichloroethene	7.22	130	140910	52.64	ug/l	95
38) Methylcyclohexane	7.47	83	186315	49.38	ug/l	96
39) 1,2-Dichloropropane	7.52	63	118634	52.47	ug/l	100
40) Dibromomethane	7.67	93	83679	48.04	ug/l	87

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX043018\
 Data File : VX001257.D
 Acq On : 30 Apr 2018 11:27
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 5/2/2018 11:08:03 AM

Quant Time: Apr 30 13:13:29 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Apr 30 12:56:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	157972	47.71	ug/l	98
42) Vinyl Acetate	3.83	43	1584941	256.69	ug/l	98
43) Ethyl Acetate	4.87	43	158051	37.14	ug/l	98
44) Isopropyl Acetate	6.47	43	271684	43.52	ug/l	98
45) 1,4-Dioxane	7.76	88	52258	665.54	ug/l	98
46) Methyl methacrylate	7.78	41	142644	46.97	ug/l	91
47) n-amyl Acetate	10.90	43	261486	47.97	ug/l	99
48) t-1,3-Dichloropropene	8.44	75	189946	49.28	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	183196	48.84	ug/l	92
50) 1,1,2-Trichloroethane	9.22	97	124039	48.50	ug/l	100
51) Ethyl methacrylate	9.19	69	178090	45.45	ug/l	91
52) 1,3-Dichloropropane	9.38	76	202566	49.38	ug/l	99
53) Dibromochloromethane	9.59	129	140167	49.26	ug/l	97
54) 1,2-Dibromoethane	9.68	107	134328	47.12	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	434273	253.80	ug/l	100
56) Bromoform	10.86	173	115229	50.00	ug/l #	97
58) 4-Methyl-2-Pentanone	8.65	43	861210	192.75	ug/l	99
59) 2-Hexanone	9.50	43	676968	178.93	ug/l	97
61) Tetrachloroethene	9.34	164	153346	61.91	ug/l	91
62) Toluene	8.79	91	541066	50.98	ug/l	100
64) Chlorobenzene	10.14	112	366219	51.06	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	135064	53.17	ug/l	96
66) Ethyl Benzene	10.26	91	612379	50.55	ug/l	99
67) m/p-Xylenes	10.37	106	488132	102.79	ug/l	99
68) o-Xylene	10.70	106	233708	50.67	ug/l	99
69) Styrene	10.72	104	389591	50.99	ug/l	99
70) Isopropylbenzene	11.02	105	633977	50.84	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	187426	43.68	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	177877m	46.22	ug/l	
73) Bromobenzene	11.26	156	183167	56.03	ug/l	96
74) n-propylbenzene	11.37	91	722686	49.45	ug/l	99
75) 2-Chlorotoluene	11.43	91	433672	51.61	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	545188	51.59	ug/l	68
77) t-1,4-Dichloro-2-butene	11.08	75	51341	37.72	ug/l	90
78) 4-Chlorotoluene	11.52	91	518393	51.49	ug/l	99
79) tert-butylbenzene	12.07	119	592037	56.29	ug/l	94
80) 1,2,4-Trimethylbenzene	11.81	105	561581	52.10	ug/l	99
81) sec-Butylbenzene	11.95	105	633602	48.73	ug/l	99
82) p-Isopropyltoluene	12.07	119	592037	51.04	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	337051	54.15	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	340777	52.54	ug/l	99
85) n-Butylbenzene	12.39	91	509453	46.83	ug/l	98
86) Hexachloroethane	12.60	117	89434	46.16	ug/l	71
87) 1,2-Dichlorobenzene	12.40	146	334218	54.19	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	40602	33.84	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	257131	56.76	ug/l	98
90) Hexachlorobutadiene	13.79	225	119290	61.12	ug/l	97
91) Naphthalene	13.84	128	682328	43.10	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	252426	55.43	ug/l	97

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX043018\
Data File : VX001257.D
Acq On : 30 Apr 2018 11:27
Operator : JC/MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations
APPROVED

MMDadoda
5/2/2018 11:08:03 AM

Quant Time: Apr 30 13:13:29 2018
Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Apr 30 12:56:30 2018
Response via : Initial Calibration

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

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

