

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050119\
 Data File : VX009257.D
 Acq On : 01 May 2019 15:44
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX050119

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 10:53:31 AM

Quant Time: May 02 07:00:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	33586	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	196921	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	174025	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	82724	29.69	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.97%
60) 4-Bromofluorobenzene	11.13	95	87883	29.72	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.07%
63) Toluene-d8	8.71	98	249550	30.25	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	39368	22.059	ug/l 99
3) Chloromethane	1.32	50	52365	21.829	ug/l 99
4) Vinyl Chloride	1.40	62	50123	20.945	ug/l 98
5) Bromomethane	1.64	94	30997	20.434	ug/l 97
6) Chloroethane	1.72	64	31584	20.125	ug/l 100
7) Trichlorofluoromethane	1.93	101	63148	21.370	ug/l 100
8) Diethyl Ether	2.18	74	28920	21.077	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	41031	22.427	ug/l 98
10) 1,1-Dichloroethene	2.37	96	38898	21.174	ug/l 98
11) Methyl Iodide	2.51	142	38835	19.447	ug/l 99
12) Methyl Acetate	2.77	43	69003	19.942	ug/l 99
13) Acrolein	2.29	56	36151	76.175	ug/l 100
14) Acrylonitrile	3.13	53	151926	101.173	ug/l 99
15) Acetone	2.44	58	43675	101.301	ug/l 100
16) Carbon Disulfide	2.57	76	106801	21.487	ug/l 99
17) Allyl chloride	2.73	41	92020	20.865	ug/l 99
18) Methylene Chloride	2.85	84	47028	21.182	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	42367	21.630	ug/l 99
20) Diisopropyl ether	3.85	45	184187	21.207	ug/l 93
21) 1,1-Dichloroethane	3.69	63	88257	20.998	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	49113	20.817	ug/l 97
23) tert-Butyl Alcohol	3.04	59	61954	97.571	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	151418	21.062	ug/l 99
25) Chloroform	5.20	83	81288	21.193	ug/l 98
26) Cyclohexane	5.57	56	86095	21.979	ug/l # 100
29) 1,1-Dichloropropene	5.80	75	62053	21.476	ug/l 99
30) 2-Butanone	4.67	43	228887	101.148	ug/l 100
31) 2,2-Dichloropropane	4.58	77	67776	21.277	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	67407	21.519	ug/l 97
33) Carbon Tetrachloride	5.77	117	55983	21.361	ug/l 99
34) Benzene	6.14	78	190048	21.334	ug/l 99
35) Methacrylonitrile	5.04	41	48372	20.431	ug/l 97
36) 1,2-Dichloroethane	6.19	62	68913	21.320	ug/l 99
37) Trichloroethene	7.21	130	45665	21.295	ug/l 99
38) Methylcyclohexane	7.46	83	79811	22.357	ug/l 99
39) 1,2-Dichloropropane	7.51	63	53755	21.190	ug/l 99
40) Dibromomethane	7.66	93	29901	20.767	ug/l 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050119\
 Data File : VX009257.D
 Acq On : 01 May 2019 15:44
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX050119

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 10:53:31 AM

Quant Time: May 02 07:00:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	61635	20.957	ug/l	96
42) Vinyl Acetate	3.81	43	793464	106.240	ug/l	100
43) Ethyl Acetate	4.82	43	84034	20.551	ug/l	98
44) Isopropyl Acetate	6.44	43	136153	20.554	ug/l	99
45) 1,4-Dioxane	7.74	88	26015	400.012	ug/l	99
46) Methyl methacrylate	7.77	41	67851	20.522	ug/l	99
47) n-amyl Acetate	10.90	43	121583	20.375	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	72112	21.015	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	78610	20.867	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	46919	21.270	ug/l	97
51) Ethyl methacrylate	9.18	69	84845	20.814	ug/l	97
52) 1,3-Dichloropropane	9.37	76	82442	21.058	ug/l	100
53) Dibromochloromethane	9.58	129	45729	20.815	ug/l	99
54) 1,2-Dibromoethane	9.67	107	47724	21.095	ug/l	99
55) 2-Chloroethyl vinyl ether	8.30	63	210077	96.712	ug/l	99
56) Bromoform	10.85	173	33984	20.152	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	439258	102.653	ug/l	100
59) 2-Hexanone	9.49	43	344999	102.792	ug/l	100
61) Tetrachloroethene	9.33	164	42443	22.124	ug/l	98
62) Toluene	8.78	91	201663	21.686	ug/l	99
64) Chlorobenzene	10.13	112	120082	21.456	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	43258	21.110	ug/l	100
66) Ethyl Benzene	10.25	91	224500	21.671	ug/l	99
67) m/p-Xylenes	10.35	106	164146	43.399	ug/l	99
68) o-Xylene	10.69	106	80472	21.638	ug/l	97
69) Styrene	10.71	104	139772	21.409	ug/l	100
70) Isopropylbenzene	11.02	105	217731	21.769	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	75960	20.737	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	67004m	21.227	ug/l	
73) Bromobenzene	11.26	156	53161	21.512	ug/l	100
74) n-propylbenzene	11.36	91	255898	22.078	ug/l	99
75) 2-Chlorotoluene	11.42	91	150895	21.705	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	184988	21.834	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	24675	19.379	ug/l	97
78) 4-Chlorotoluene	11.51	91	171421	21.710	ug/l	99
79) tert-butylbenzene	11.77	119	177950	21.727	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	185622	21.859	ug/l	100
81) sec-Butylbenzene	11.94	105	216048	22.202	ug/l	99
82) p-Isopropyltoluene	12.06	119	195319	22.065	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	94665	21.450	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	93224	21.202	ug/l	99
85) n-Butylbenzene	12.38	91	181331	22.388	ug/l	99
86) Hexachloroethane	12.60	117	32077	21.296	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	95303	21.452	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	17987	21.131	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	69858	22.062	ug/l	98
90) Hexachlorobutadiene	13.78	225	35848	22.665	ug/l	99
91) Naphthalene	13.83	128	227614	21.955	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	71048	22.073	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050119\
Data File : VX009257.D
Acq On : 01 May 2019 15:44
Operator : JC/SP
Sample : VSTDICV020
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050119

Manual Integrations
APPROVED

MMDadoda
5/2/2019 10:53:31 AM

Quant Time: May 02 07:00:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 02 06:46:57 2019
Response via : Initial Calibration

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

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

