

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021954.D
 Acq On : 13 May 2021 09:24
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/14/2021 6:48:05 PM

Quant Time: May 14 03:44:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 06:11:35 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.904	128	20098	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	118599	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	103311	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	45581	29.44	ug/l	-0.01
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.13%		
60) 4-Bromofluorobenzene	11.085	95	52827	30.81	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.70%		
63) Toluene-d8	8.653	98	141923	30.06	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.20%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	23767	20.03	ug/l	89
3) Chloromethane	1.294	50	26110	18.32	ug/l	95
4) Vinyl Chloride	1.374	62	28198	19.05	ug/l	98
5) Bromomethane	1.605	94	17013	20.42	ug/l	100
6) Chloroethane	1.685	64	18059	18.95	ug/l	98
7) Trichlorofluoromethane	1.892	101	39374	19.04	ug/l	96
8) Diethyl Ether	2.136	74	16654	18.78	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	21963	18.52	ug/l	96
10) 1,1-Dichloroethene	2.319	96	22024	18.44	ug/l	94
11) Methyl Iodide	2.453	142	23875	20.10	ug/l	93
12) Methyl Acetate	2.703	43	29810	18.05	ug/l	94
13) Acrolein	2.239	56	27752	108.34	ug/l	97
14) Acrylonitrile	3.062	53	62259	92.37	ug/l	97
15) Acetone	2.380	58	22604	112.34	ug/l	95
16) Carbon Disulfide	2.514	76	62895	19.25	ug/l	98
17) Allyl chloride	2.666	41	39287	18.66	ug/l	97
18) Methylene Chloride	2.794	84	26159	18.42	ug/l	93
19) trans-1,2-Dichloroethene	3.099	96	24617	18.96	ug/l	88
20) Diisopropyl ether	3.757	45	72246	18.20	ug/l #	75
21) 1,1-Dichloroethane	3.611	63	44489	18.72	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	28937	18.97	ug/l	97
23) tert-Butyl Alcohol	2.959	59	29925	91.34	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	72431	18.62	ug/l	99
25) Chloroform	5.099	83	45326	18.81	ug/l	96
26) Cyclohexane	5.471	56	36626	18.68	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	34042	18.34	ug/l	99
30) 2-Butanone	4.556	43	104743	99.69	ug/l	99
31) 2,2-Dichloropropane	4.477	77	40302	18.48	ug/l #	78
32) 1,1,1-Trichloroethane	5.391	97	39800	18.17	ug/l	97
33) Carbon Tetrachloride	5.678	117	33978	18.28	ug/l	97
34) Benzene	6.044	78	100635	17.77	ug/l	99
35) Methacrylonitrile	4.922	41	19653	17.47	ug/l	92
36) 1,2-Dichloroethane	6.086	62	36137	18.69	ug/l #	90
37) Trichloroethene	7.129	130	25592	17.98	ug/l	97
38) Methylcyclohexane	7.385	83	37863	17.97	ug/l	97
39) 1,2-Dichloropropane	7.428	63	25923	18.33	ug/l	100
40) Dibromomethane	7.586	93	17635	17.92	ug/l	99
41) Bromodichloromethane	7.824	83	35834	18.24	ug/l	98
42) Vinyl Acetate	3.721	43	355423	90.58	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021954.D
 Acq On : 13 May 2021 09:24
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/14/2021 6:48:05 PM

Quant Time: May 14 03:44:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 06:11:35 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	38586	18.07	ug/l	99
44) Isopropyl Acetate	6.342	43	63997	18.17	ug/l	97
45) 1,4-Dioxane	7.659	88	11186	355.79	ug/l #	100
46) Methyl methacrylate	7.696	41	28987	17.75	ug/l	94
47) n-amyl Acetate	10.842	43	55053	18.80	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	41492	18.81	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	44530	18.81	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	25512	18.22	ug/l	97
51) Ethyl methacrylate	9.116	69	42489	18.81	ug/l	99
52) 1,3-Dichloropropane	9.311	76	44143	18.08	ug/l	96
53) Dibromochloromethane	9.525	129	26140	18.58	ug/l	100
54) 1,2-Dibromoethane	9.610	107	26673	18.55	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	107180	89.90	ug/l	100
56) Bromoform	10.799	173	17337	19.42	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	191338	91.84	ug/l	99
59) 2-Hexanone	9.433	43	154001	99.81	ug/l	99
61) Tetrachloroethene	9.275	164	21883	18.67	ug/l	93
62) Toluene	8.720	91	109979	18.59	ug/l	99
64) Chlorobenzene	10.079	112	67678	19.13	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	24236	18.78	ug/l	98
66) Ethyl Benzene	10.195	91	123511	18.98	ug/l	99
67) m/p-Xylenes	10.305	106	92744	37.61	ug/l	99
68) o-Xylene	10.646	106	45453	18.92	ug/l	97
69) Styrene	10.659	104	75532	18.79	ug/l	99
70) Isopropylbenzene	10.963	105	118867	18.84	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	38555	18.53	ug/l	96
72) 1,2,3-Trichloropropane	11.244	75	35588m	19.30	ug/l	
73) Bromobenzene	11.201	156	25409	19.01	ug/l	97
74) n-propylbenzene	11.305	91	144229	19.61	ug/l	100
75) 2-Chlorotoluene	11.366	91	83949	19.27	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	102684	19.49	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	14400	19.27	ug/l	87
78) 4-Chlorotoluene	11.457	91	94243	18.80	ug/l	99
79) tert-butylbenzene	11.719	119	95998	19.05	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	101325	19.25	ug/l	99
81) sec-Butylbenzene	11.896	105	121157	19.13	ug/l	99
82) p-Isopropyltoluene	12.012	119	102937	19.39	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	47648	18.80	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	48124	18.93	ug/l	98
85) n-Butylbenzene	12.335	91	95368	19.60	ug/l	99
86) Hexachloroethane	12.542	117	16976	19.24	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	46657	19.01	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	7967	17.20	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	28026	18.64	ug/l	96
90) Hexachlorobutadiene	13.725	225	11987	20.61	ug/l	97
91) Naphthalene	13.780	128	108526	18.40	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	28673	19.21	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021954.D
 Acq On : 13 May 2021 09:24
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/14/2021 6:48:05 PM

Quant Time: May 14 03:44:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 06:11:35 2021
 Response via : Initial Calibration

