

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030621\
 Data File : VX021011.D
 Acq On : 04 Mar 2021 14:03
 Operator : JC/MD
 Sample : M1489-04 4X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 04 14:29:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022421W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 24 13:50:55 2021
 Response via : Initial Calibration

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

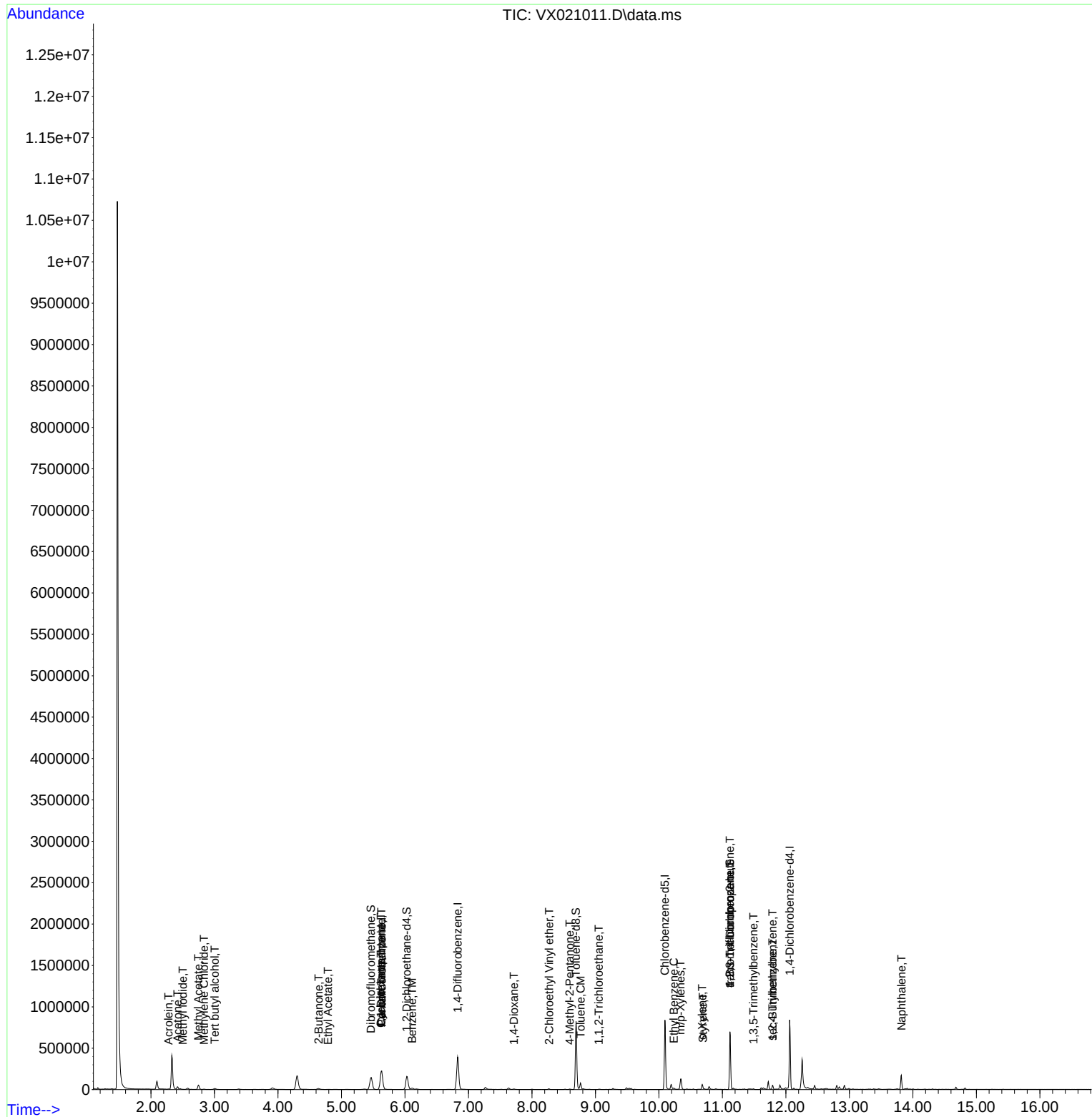
Internal Standards						
1) Pentafluorobenzene	5.635	168	219219	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.829	114	409490	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.094	117	391378	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	179793	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.029	65	150287	50.75	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 101.50%			
35) Dibromofluoromethane	5.464	113	129194	51.93	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 103.86%			
50) Toluene-d8	8.694	98	506800	52.24	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 104.48%			
62) 4-Bromofluorobenzene	11.118	95	186826	52.08	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 104.16%			
Target Compounds						Qvalue
5) Bromomethane	1.640	94	430	Below Cal	#	47
10) Methyl Iodide	2.499	142	772	0.24	ug/l #	89
11) Tert butyl alcohol	3.005	59	13716	20.80	ug/l	99
13) Acrolein	2.276	56	4106	10.06	ug/l	96
16) Acetone	2.417	43	31736	26.01	ug/l	100
18) Methyl Acetate	2.746	43	61657	21.36	ug/l	99
20) Methylene Chloride	2.834	84	1493	0.51	ug/l	93
25) 2-Butanone	4.641	43	18386	9.92	ug/l	95
31) Cyclohexane	5.623	56	4363	1.02	ug/l #	1
36) 1,1-Dichloropropene	5.623	75	17216	4.42	ug/l #	48
37) Ethyl Acetate	4.788	43	1130	0.31	ug/l #	76
38) Carbon Tetrachloride	5.629	117	20723	5.50	ug/l #	16
40) Benzene	6.111	78	20351	1.74	ug/l #	90
49) 1,4-Dioxane	7.717	88	4161	56.42	ug/l	98
51) 4-Methyl-2-Pentanone	8.594	43	2773	0.76	ug/l #	32
52) Toluene	8.765	92	28476	3.92	ug/l	95
55) 1,1,2-Trichloroethane	9.053	97	1492	0.52	ug/l #	18
58) 2-Chloroethyl Vinyl ether	8.270	63	538	0.24	ug/l #	45
67) Ethyl Benzene	10.235	91	7449	0.50	ug/l	95
68) m/p-Xylenes	10.341	106	18186	3.31	ug/l	100
69) o-Xylene	10.682	106	12250	2.28	ug/l	99
70) Styrene	10.694	104	4507	0.49	ug/l #	63
76) 1,2,3-Trichloropropane	11.118	75	90278	23.34	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.488	105	3591	0.30	ug/l	95
81) trans-1,4-Dichloro-2-b...	11.118	75	90278	51.68	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.789	105	18741	1.56	ug/l	82
85) sec-Butylbenzene	11.789	105	18741	1.38	ug/l #	57
95) Naphthalene	13.818	128	105780	8.02	ug/l	99

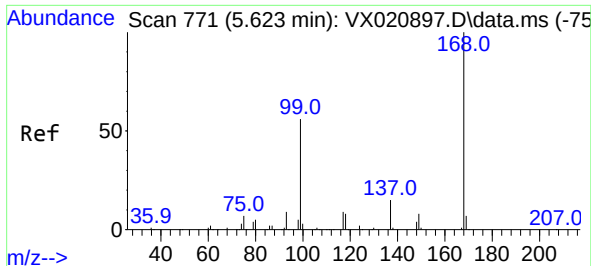
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 04 Mar 2021 14:03
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022421W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 24 13:50:55 2021
Response via : Initial Calibration

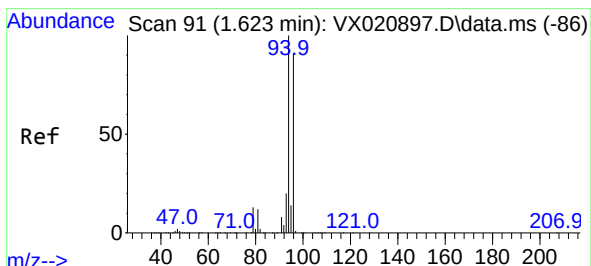
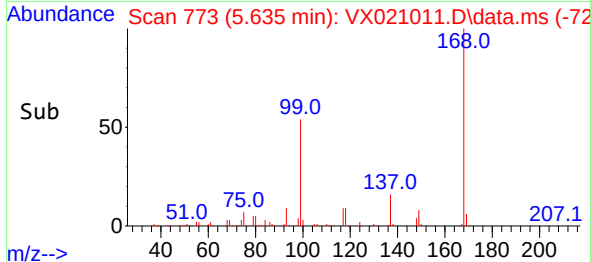
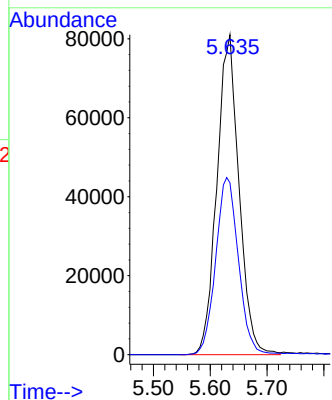
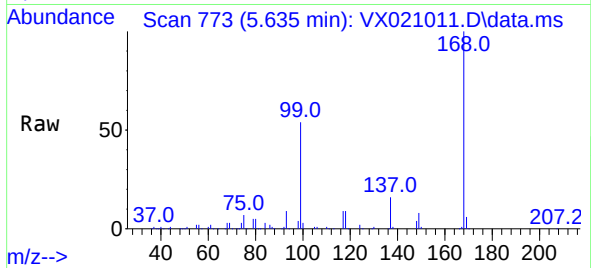




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.635 min Scan# 773
Delta R.T. 0.012 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

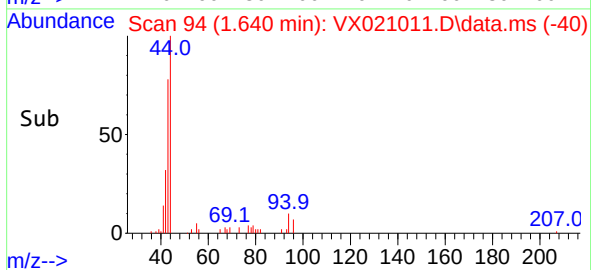
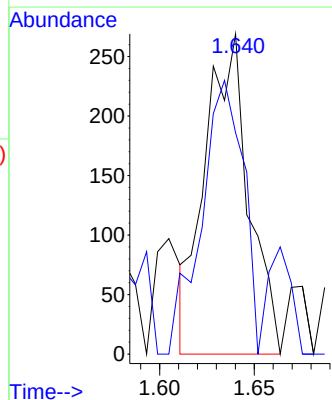
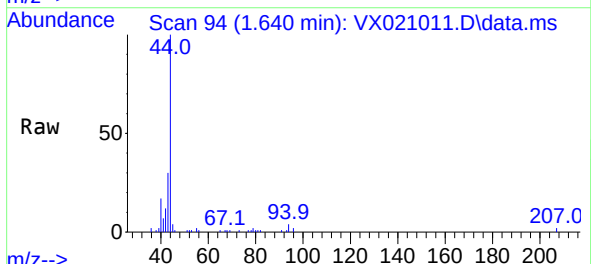
Instrument :
MSVOA_X
ClientSampleId :

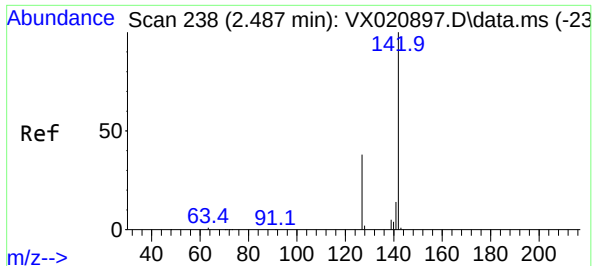
Tgt Ion:168 Resp: 219219
Ion Ratio Lower Upper
168 100
99 53.7 45.8 68.6



#5
Bromomethane
Concen: Below Cal
RT: 1.640 min Scan# 94
Delta R.T. 0.017 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

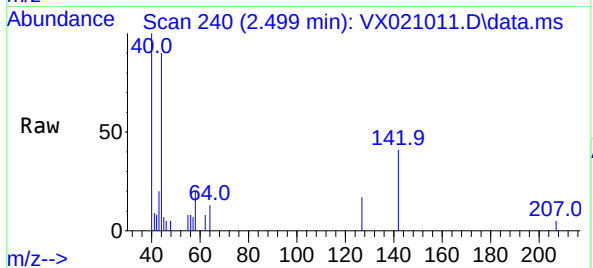
Tgt Ion: 94 Resp: 430
Ion Ratio Lower Upper
94 100
96 43.9 76.4 114.6#





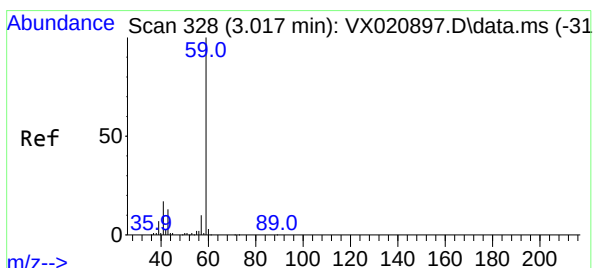
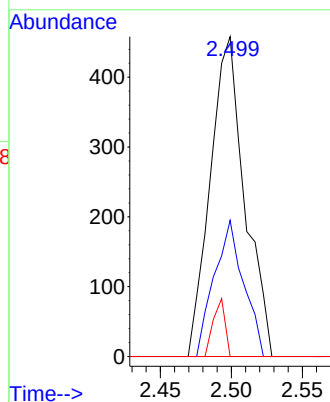
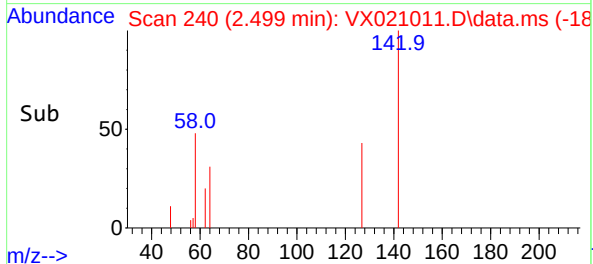
#10
Methyl Iodide
Concen: 0.24 ug/l
RT: 2.499 min Scan# 240
Delta R.T. 0.012 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Instrument :
MSVOA_X
ClientSampleId :

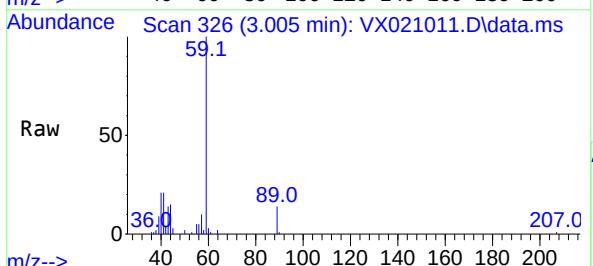


Tgt Ion:142 Resp: 772

Ion	Ratio	Lower	Upper
142	100		
127	36.4	33.3	49.9
141	6.2	11.4	17.0#

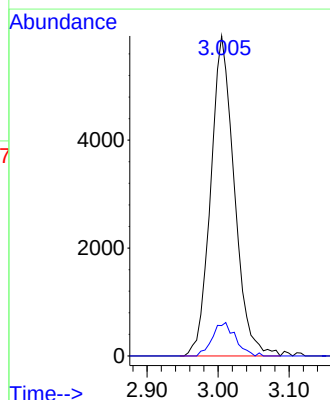
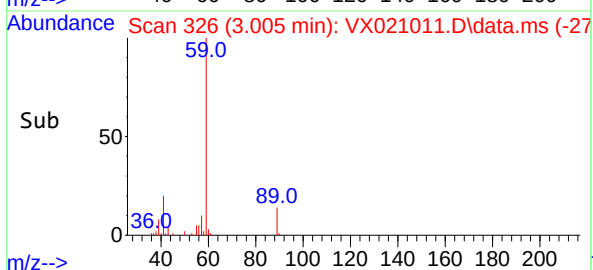


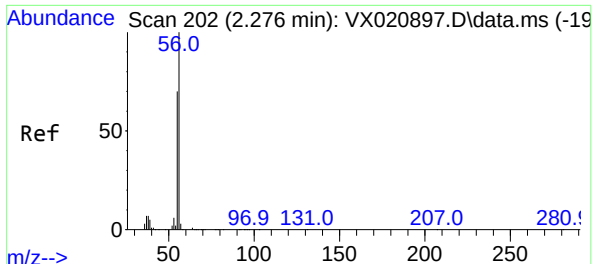
#11
Tert butyl alcohol
Concen: 20.80 ug/l
RT: 3.005 min Scan# 326
Delta R.T. -0.012 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03



Tgt Ion: 59 Resp: 13716

Ion	Ratio	Lower	Upper
59	100		
57	10.2	7.8	11.8

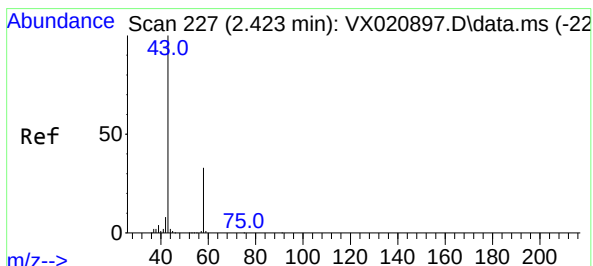
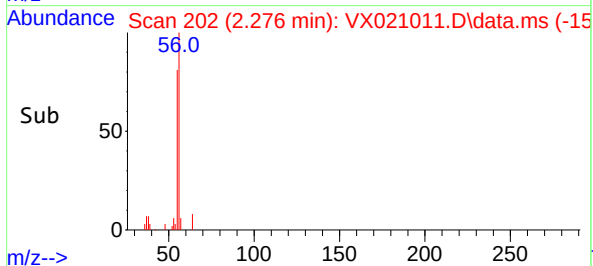
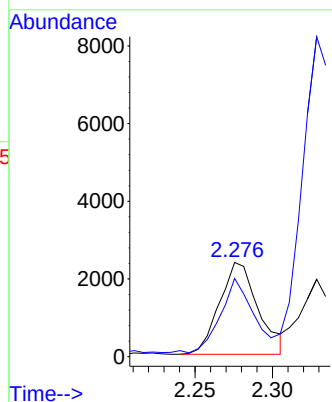
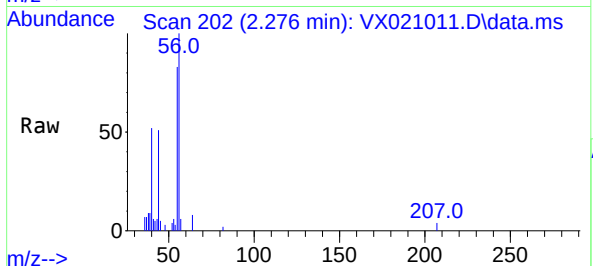




#13
Acrolein
Concen: 10.06 ug/l
RT: 2.276 min Scan# 202
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

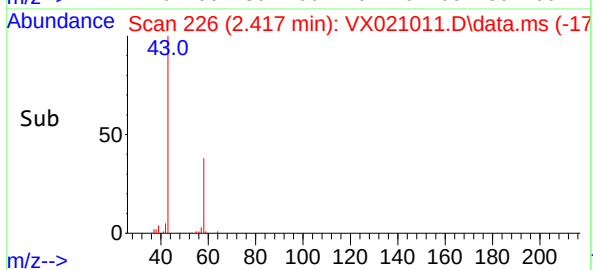
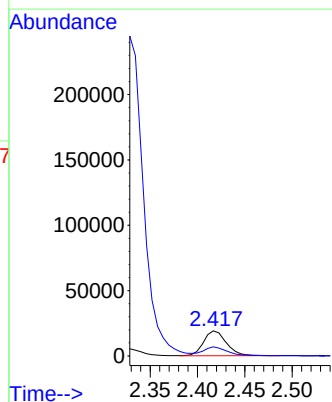
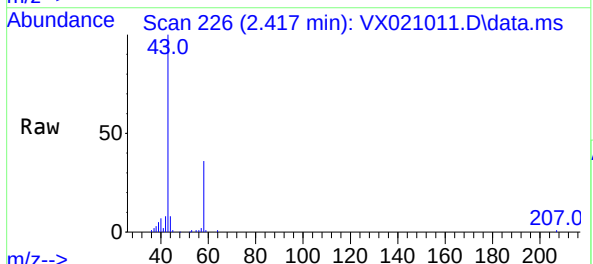
Instrument :
MSVOA_X
ClientSampled :

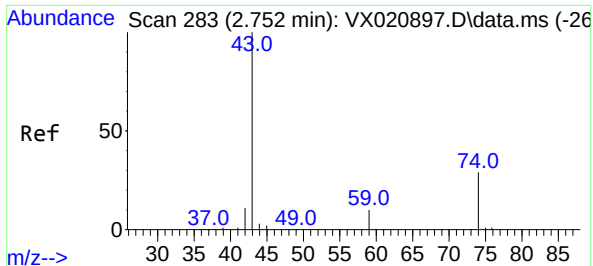
Tgt Ion: 56 Resp: 4106
Ion Ratio Lower Upper
56 100
55 67.1 56.4 84.6



#16
Acetone
Concen: 26.01 ug/l
RT: 2.417 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Tgt Ion: 43 Resp: 31736
Ion Ratio Lower Upper
43 100
58 35.1 27.8 41.8

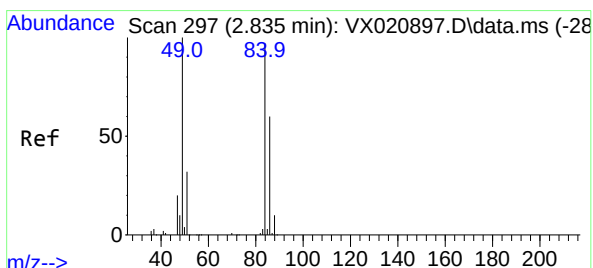
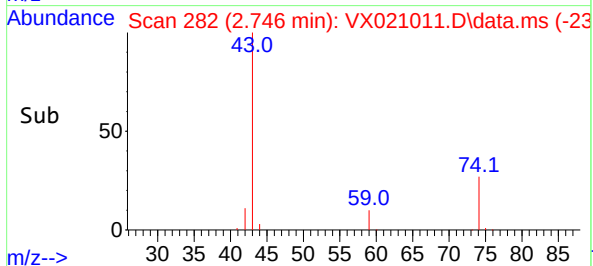
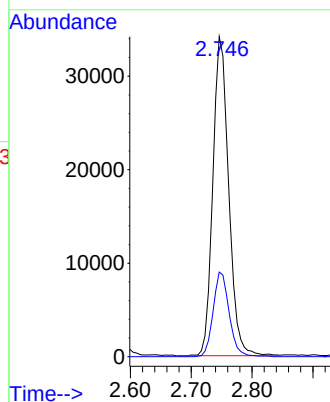
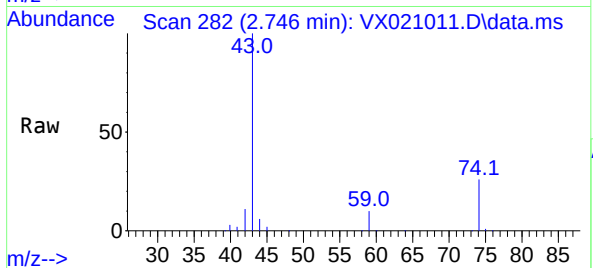




#18
Methyl Acetate
Concen: 21.36 ug/l
RT: 2.746 min Scan# 282
Delta R.T. -0.006 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

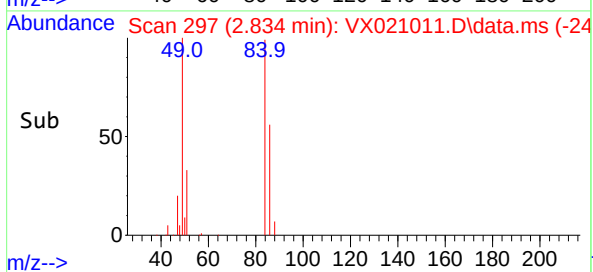
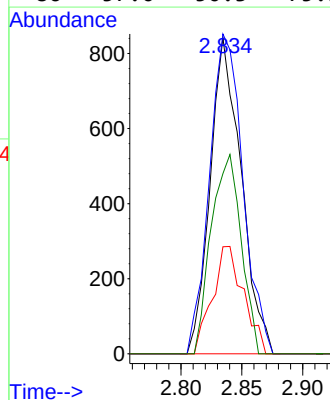
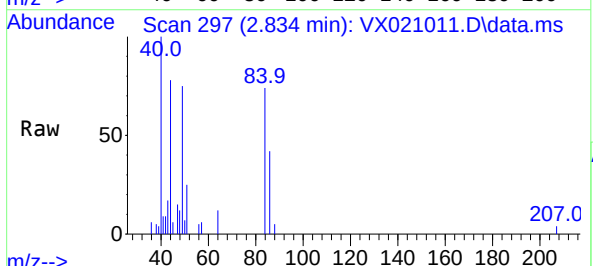
Instrument :
MSVOA_X
ClientSampleId :

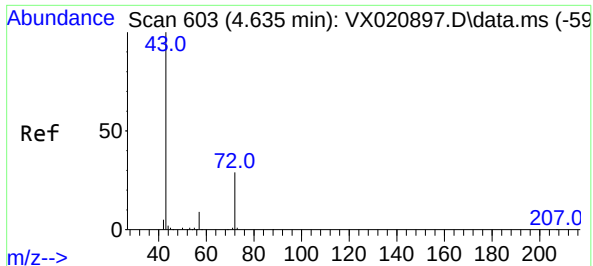
Tgt Ion: 43 Resp: 61657
Ion Ratio Lower Upper
43 100
74 26.8 21.9 32.9



#20
Methylene Chloride
Concen: 0.51 ug/l
RT: 2.834 min Scan# 297
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Tgt Ion: 84 Resp: 1493
Ion Ratio Lower Upper
84 100
49 101.2 88.6 132.8
51 33.8 27.0 40.6
86 57.0 50.3 75.5

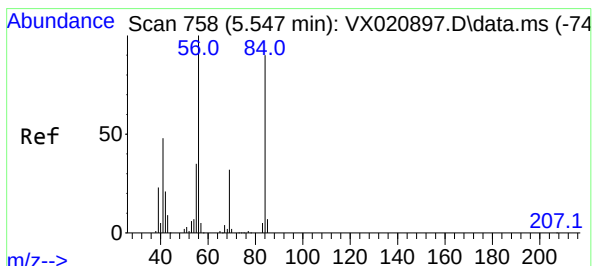
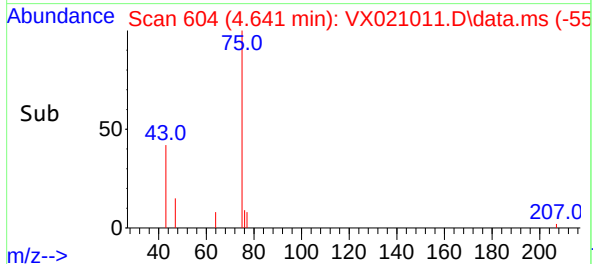
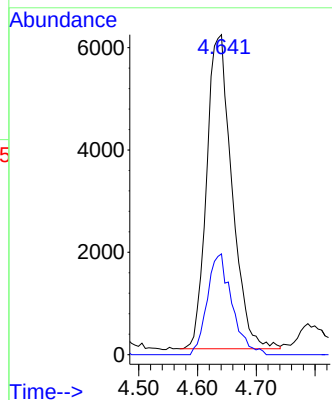
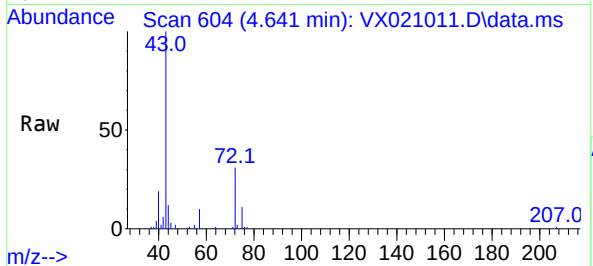




#25
2-Butanone
Concen: 9.92 ug/l
RT: 4.641 min Scan# 604
Delta R.T. 0.006 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

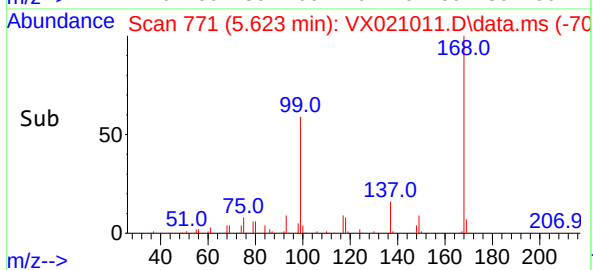
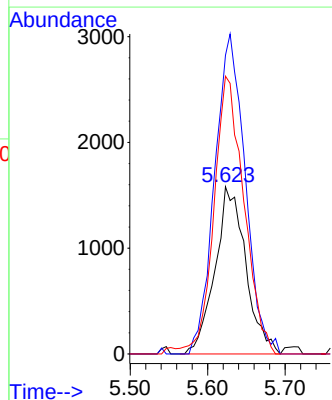
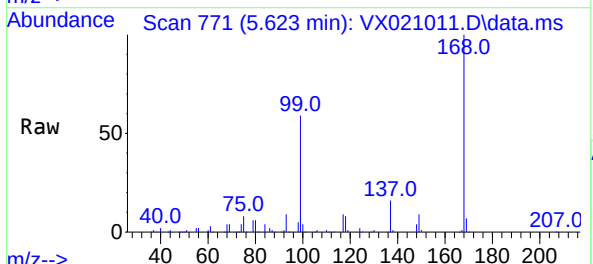
Instrument :
MSVOA_X
ClientSampleId :

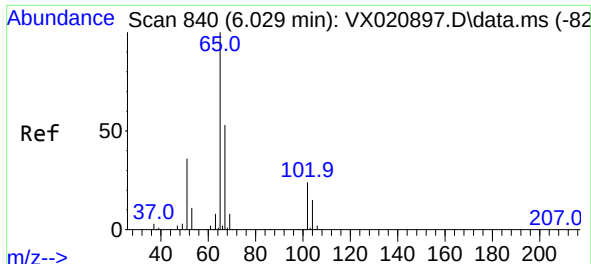
Tgt Ion: 43 Resp: 18386
Ion Ratio Lower Upper
43 100
72 32.1 23.7 35.5



#31
Cyclohexane
Concen: 1.02 ug/l
RT: 5.623 min Scan# 771
Delta R.T. 0.076 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Tgt Ion: 56 Resp: 4363
Ion Ratio Lower Upper
56 100
69 178.7 25.3 37.9#
84 166.2 71.4 107.0#



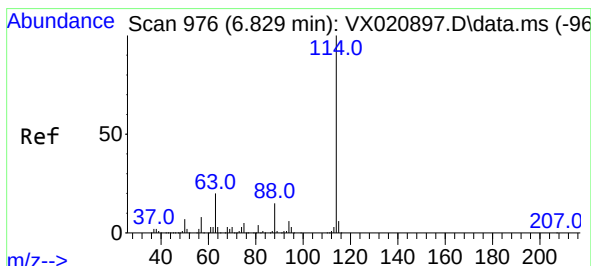
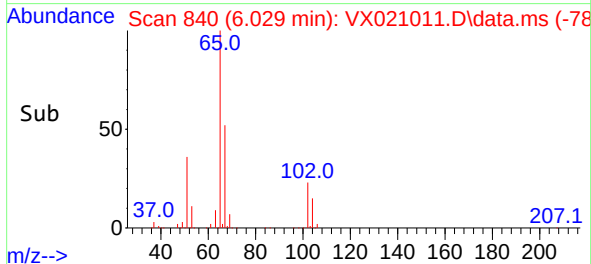
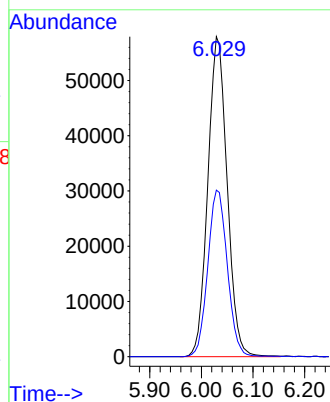
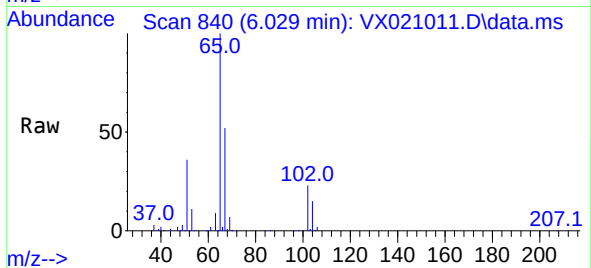


#33

1,2-Dichloroethane-d4
Concen: 50.75 ug/l
RT: 6.029 min Scan# 840
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Instrument :
MSVOA_X
ClientSampleId :

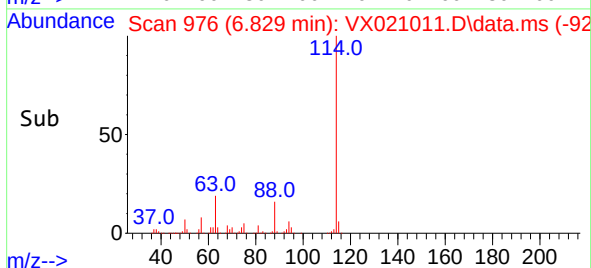
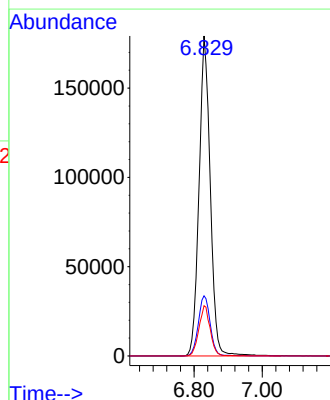
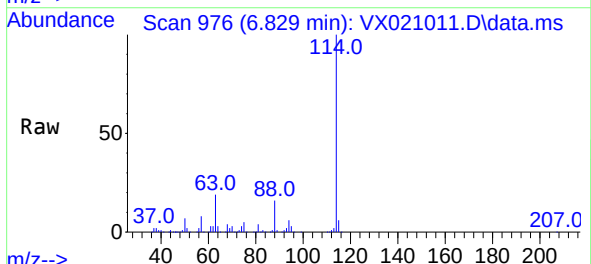
Tgt Ion: 65 Resp: 150287
Ion Ratio Lower Upper
65 100
67 52.8 0.0 105.4

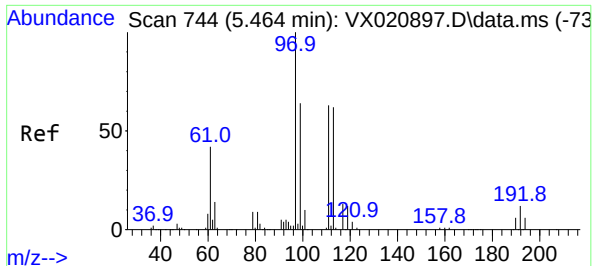


#34

1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Tgt Ion:114 Resp: 409490
Ion Ratio Lower Upper
114 100
63 18.8 0.0 40.8
88 15.7 0.0 32.8

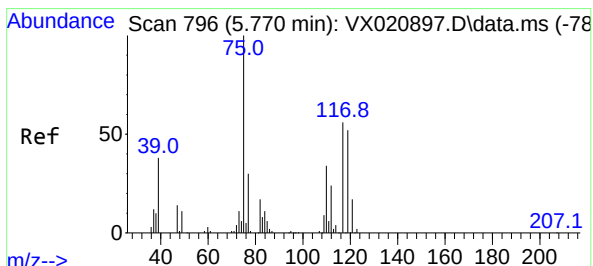
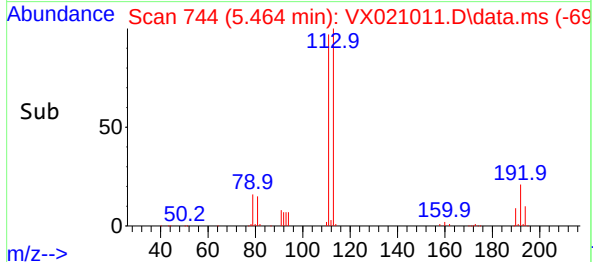
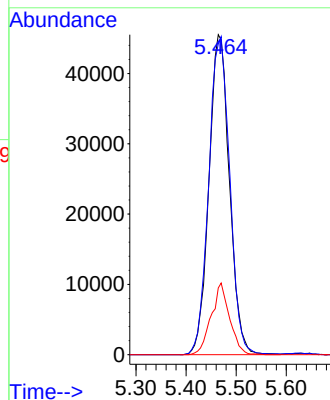
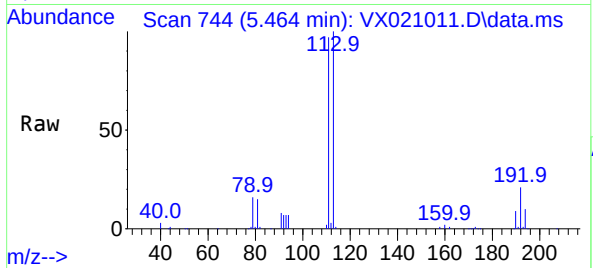




#35
Dibromofluoromethane
Concen: 51.93 ug/l
RT: 5.464 min Scan# 744
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

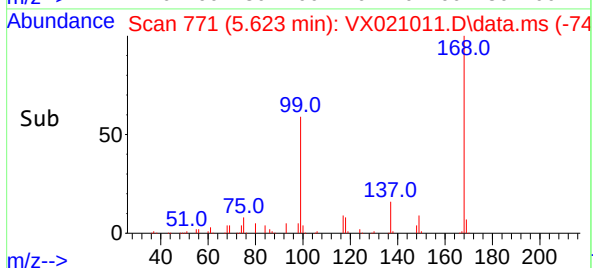
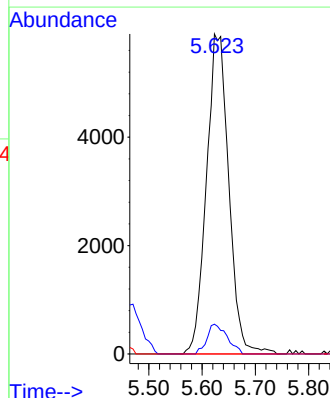
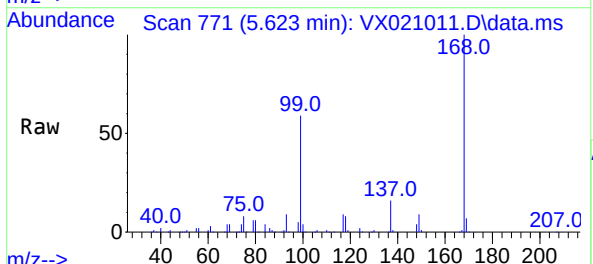
Instrument :
MSVOA_X
ClientSampleId :

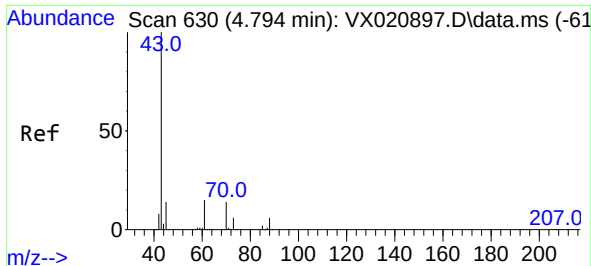
Tgt Ion:113 Resp: 129194
Ion Ratio Lower Upper
113 100
111 101.9 81.9 122.9
192 20.1 16.7 25.1



#36
1,1-Dichloropropene
Concen: 4.42 ug/l
RT: 5.623 min Scan# 771
Delta R.T. -0.147 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Tgt Ion: 75 Resp: 17216
Ion Ratio Lower Upper
75 100
110 8.4 18.1 54.4#
77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 0.31 ug/l

RT: 4.788 min Scan# 629

Delta R.T. -0.006 min

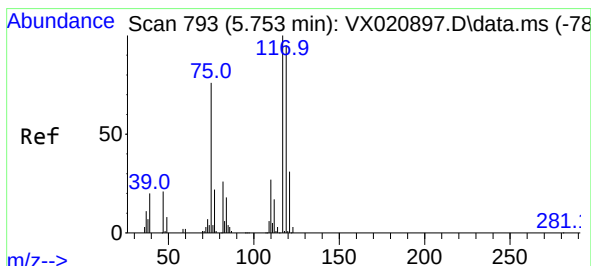
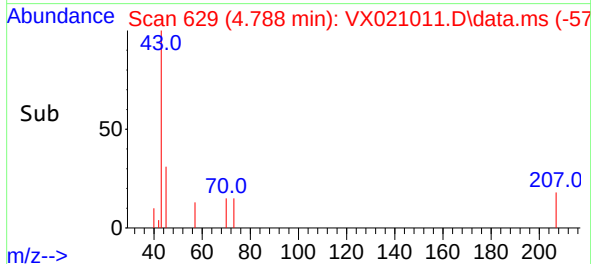
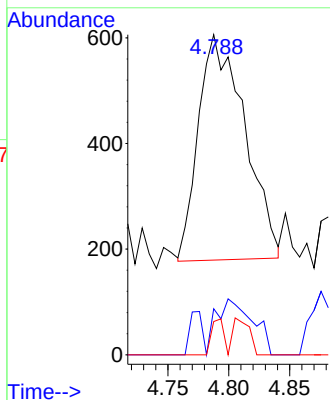
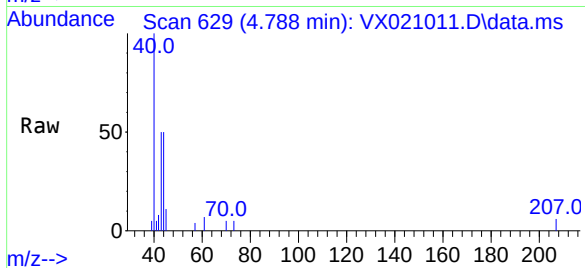
Lab File: VX021011.D

Acq: 04 Mar 2021 14:03

Instrument :
MSVOA_X
ClientSampled :

Tgt Ion: 43 Resp: 1130

Ion	Ratio	Lower	Upper
43	100		
61	5.1	12.8	19.2#
70	4.1	10.5	15.7#



#38

Carbon Tetrachloride

Concen: 5.50 ug/l

RT: 5.629 min Scan# 772

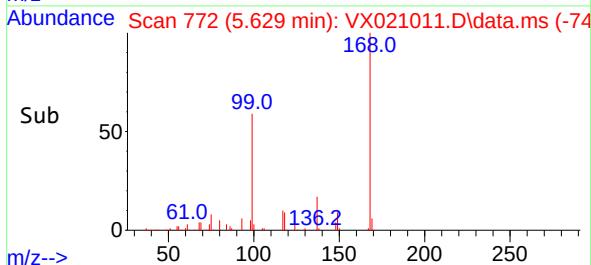
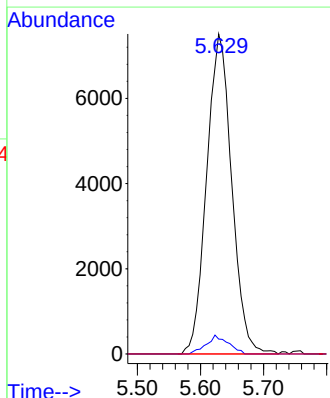
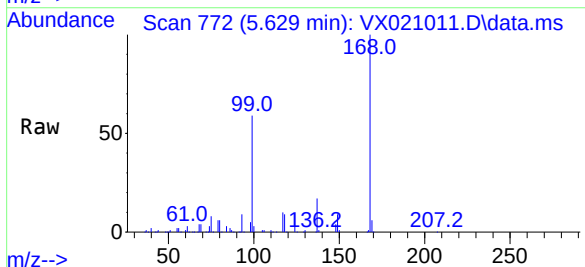
Delta R.T. -0.124 min

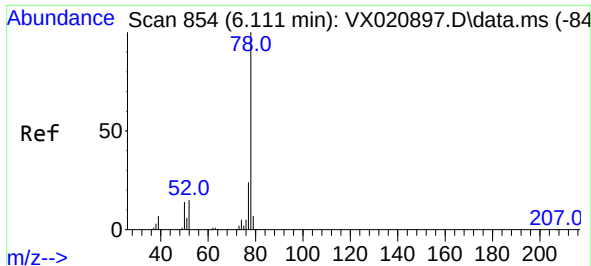
Lab File: VX021011.D

Acq: 04 Mar 2021 14:03

Tgt Ion: 117 Resp: 20723

Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.2	114.2#
121	0.0	24.8	37.2#

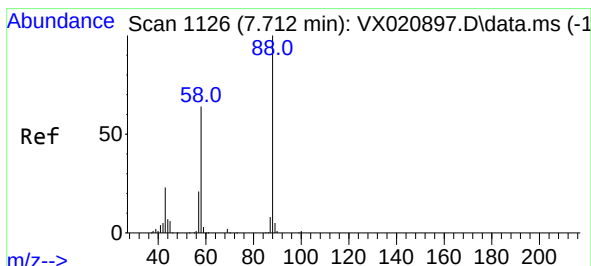
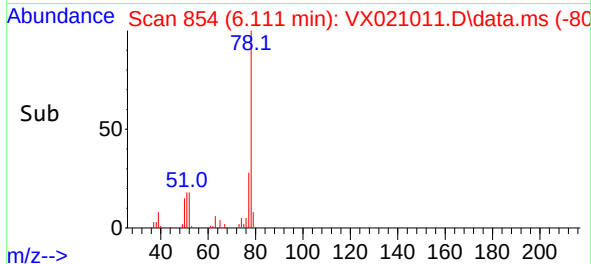
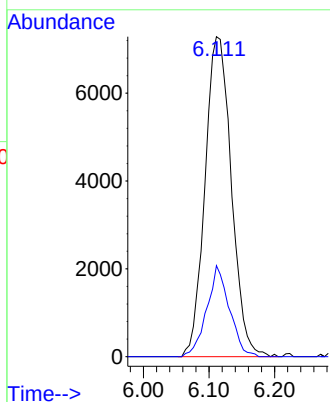
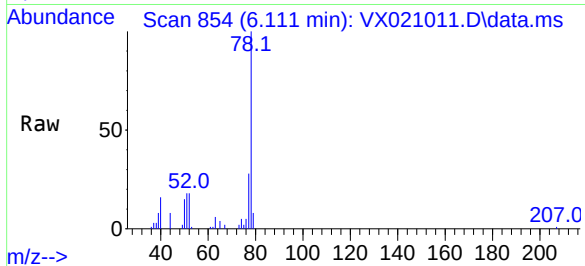




#40
Benzene
Concen: 1.74 ug/l
RT: 6.111 min Scan# 854
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

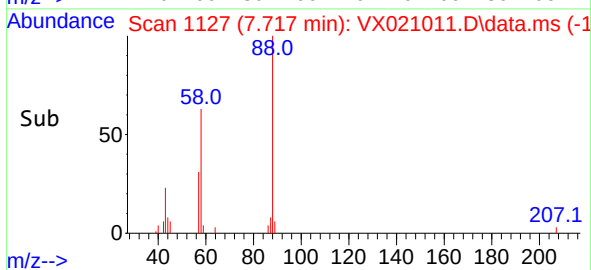
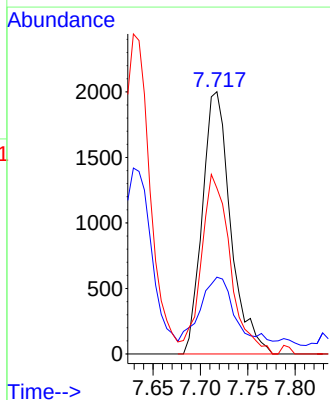
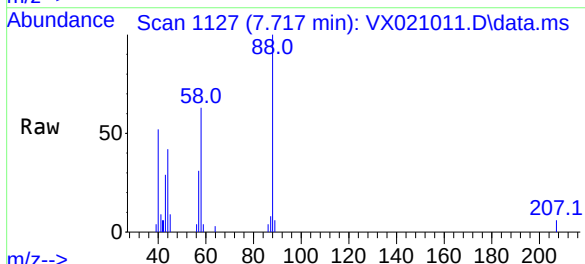
Instrument :
MSVOA_X
ClientSampled :

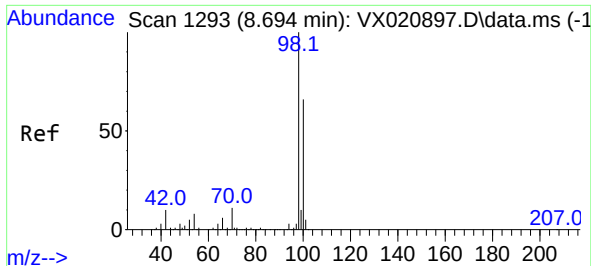
Tgt Ion: 78 Resp: 20351
Ion Ratio Lower Upper
78 100
77 28.5 18.9 28.3#



#49
1,4-Dioxane
Concen: 56.42 ug/l
RT: 7.717 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Tgt Ion: 88 Resp: 4161
Ion Ratio Lower Upper
88 100
43 27.7 23.2 34.8
58 70.3 55.0 82.4

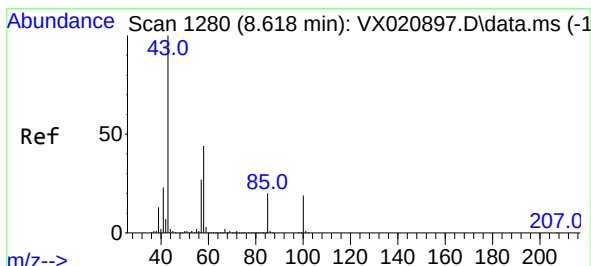
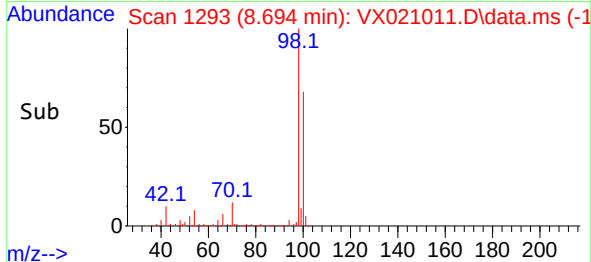
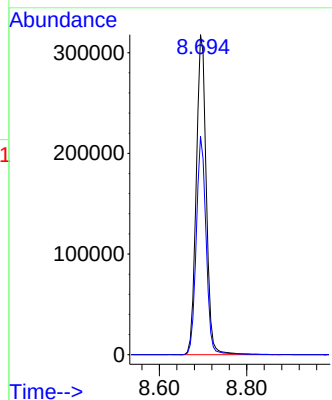
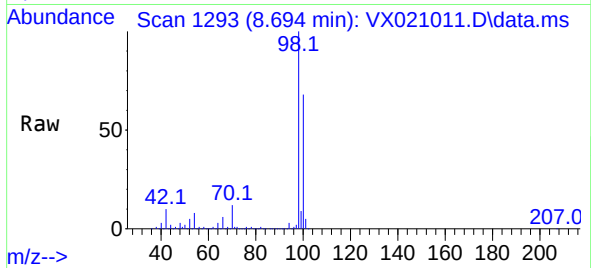




#50
Toluene-d8
Concen: 52.24 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

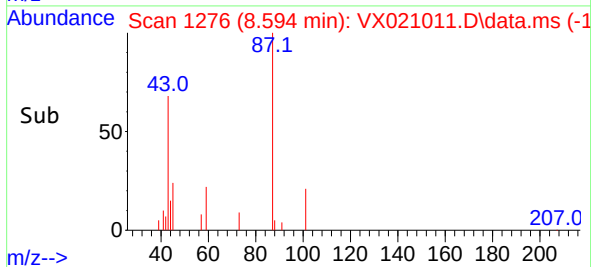
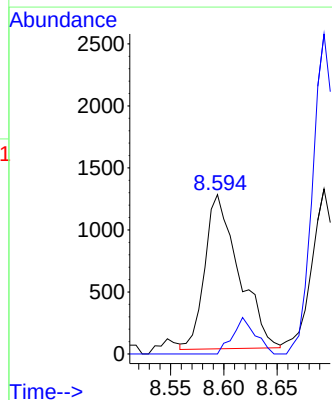
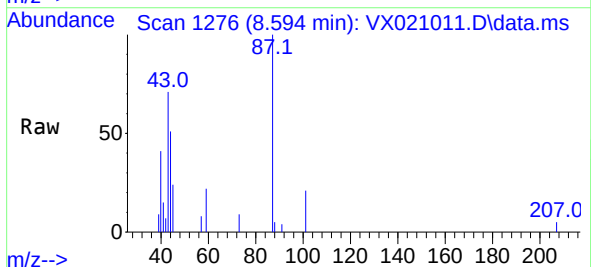
Instrument :
MSVOA_X
ClientSampled :

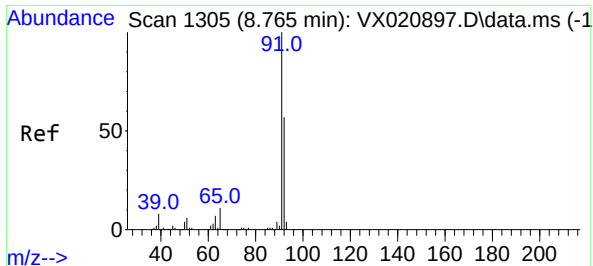
Tgt Ion: 98 Resp: 506800
Ion Ratio Lower Upper
98 100
100 66.9 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 0.76 ug/l
RT: 8.594 min Scan# 1276
Delta R.T. -0.024 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Tgt Ion: 43 Resp: 2773
Ion Ratio Lower Upper
43 100
58 0.0 35.4 53.0#

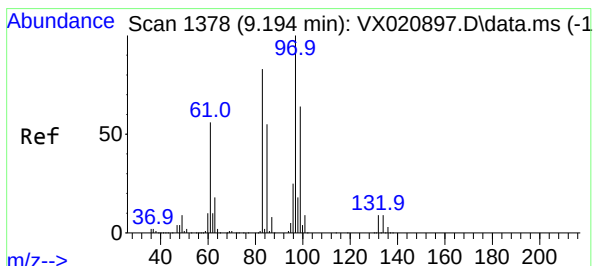
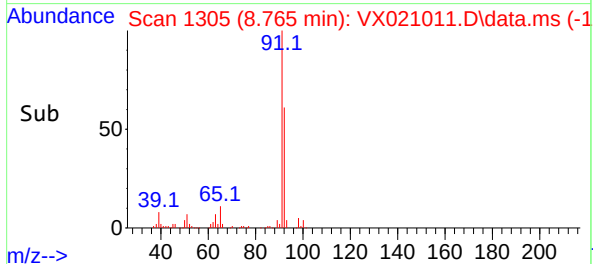
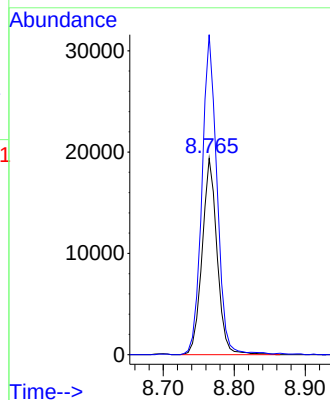
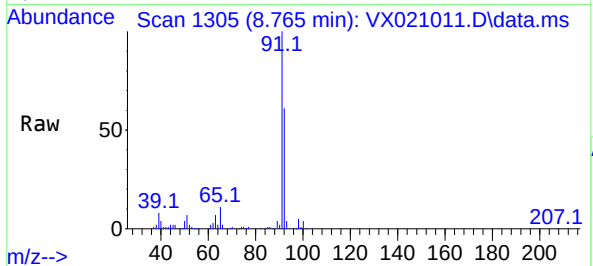




#52
Toluene
Concen: 3.92 ug/l
RT: 8.765 min Scan# 1305
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

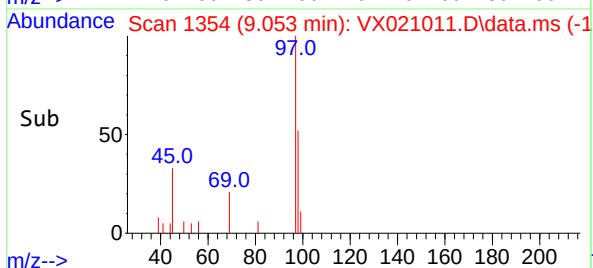
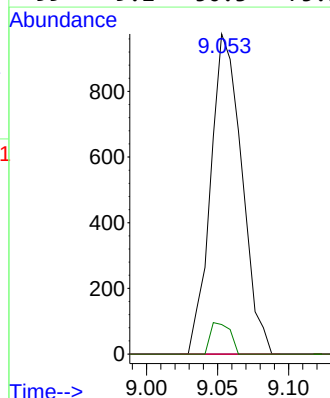
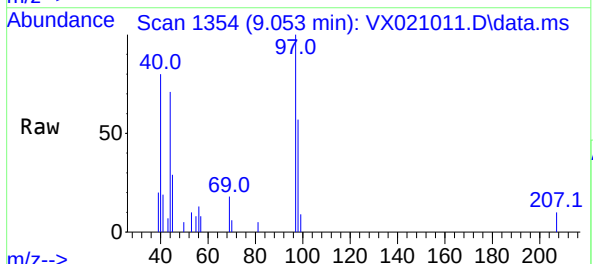
Instrument :
MSVOA_X
ClientSampled :

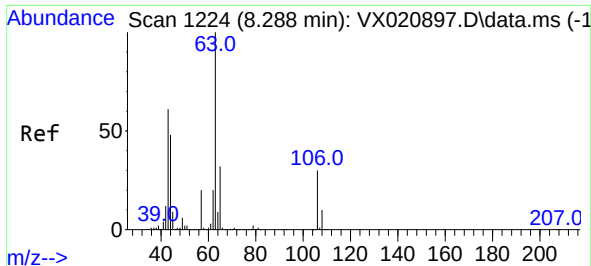
Tgt Ion: 92 Resp: 28476
Ion Ratio Lower Upper
92 100
91 163.9 137.1 205.7



#55
1,1,2-Trichloroethane
Concen: 0.52 ug/l
RT: 9.053 min Scan# 1354
Delta R.T. -0.141 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Tgt Ion: 97 Resp: 1492
Ion Ratio Lower Upper
97 100
83 0.0 69.3 103.9#
85 0.0 44.3 66.5#
99 9.2 50.3 75.5#

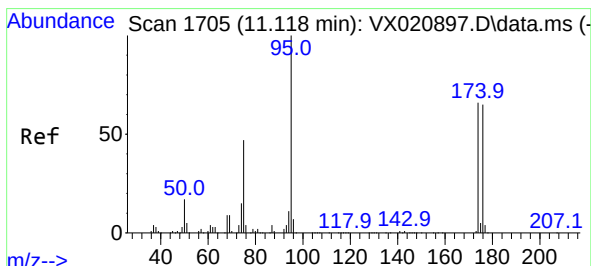
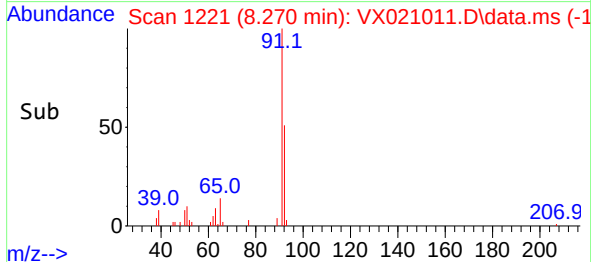
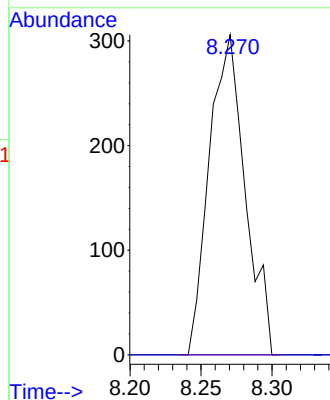
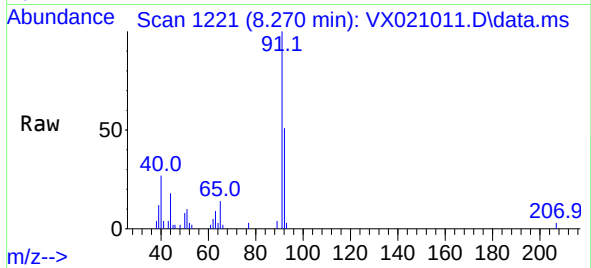




#58
2-Chloroethyl Vinyl ether
Concen: 0.24 ug/l
RT: 8.270 min Scan# 1221
Delta R.T. -0.018 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

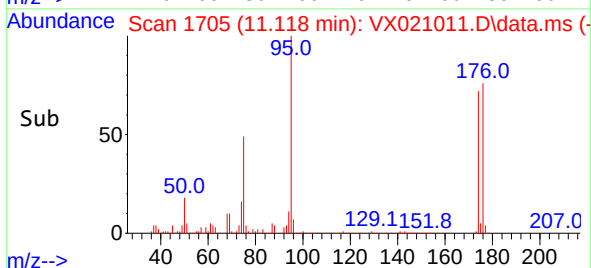
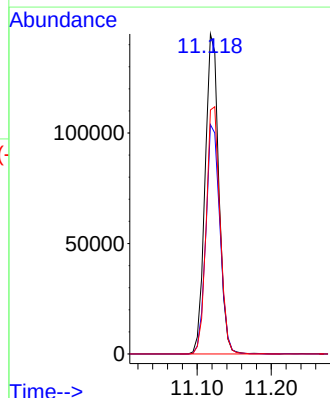
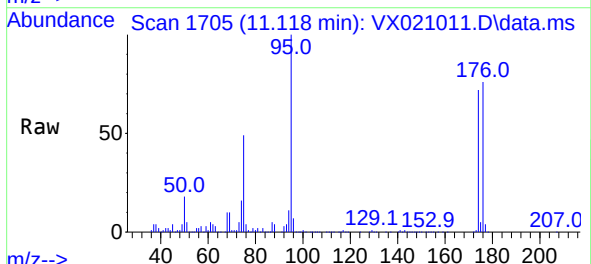
Instrument :
MSVOA_X
ClientSampled :

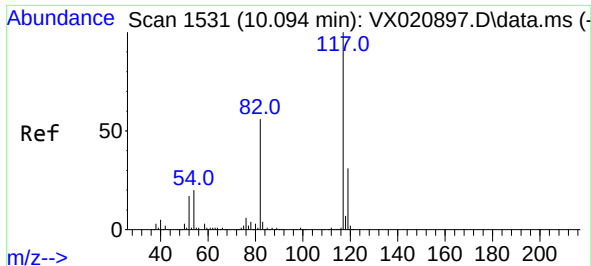
Tgt Ion: 63 Resp: 538
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#



#62
4-Bromofluorobenzene
Concen: 52.08 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Tgt Ion: 95 Resp: 186826
Ion Ratio Lower Upper
95 100
174 73.1 0.0 154.6
176 77.1 0.0 155.8

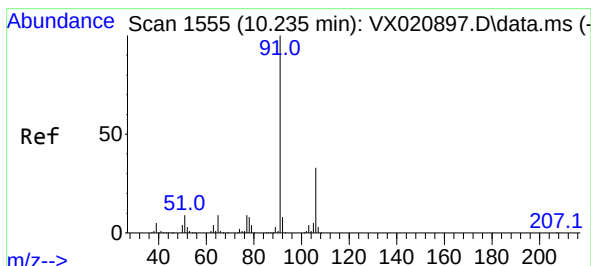
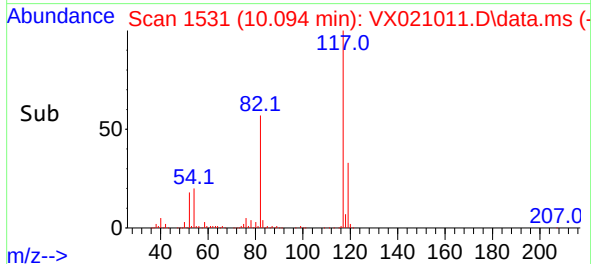
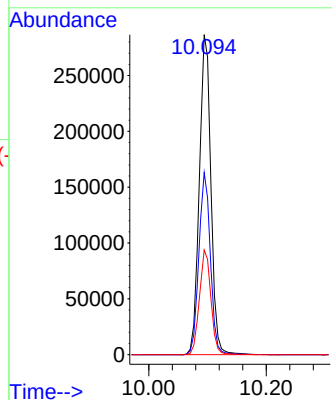
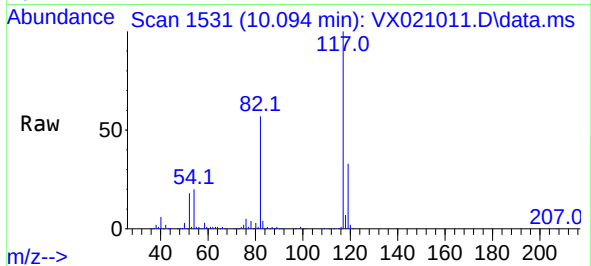




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

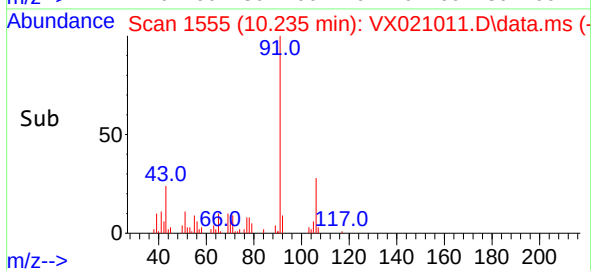
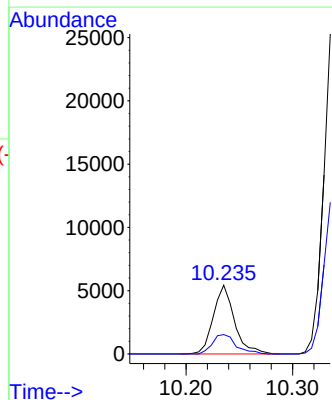
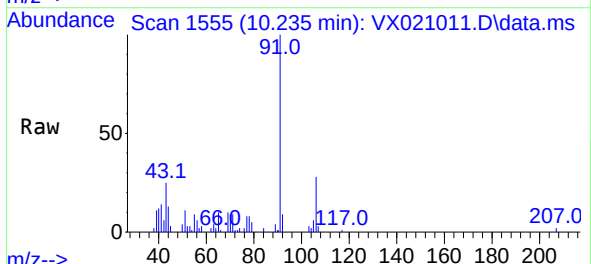
Instrument :
MSVOA_X
ClientSampled :

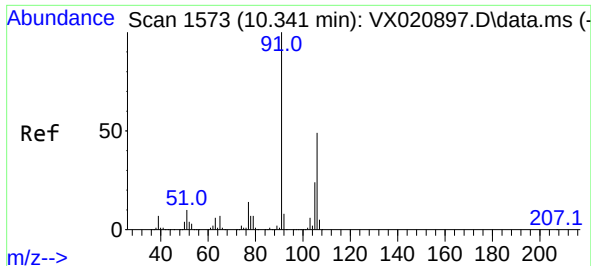
Tgt Ion:117 Resp: 391378
Ion Ratio Lower Upper
117 100
82 56.9 47.4 71.2
119 32.7 26.6 39.8



#67
Ethyl Benzene
Concen: 0.50 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Tgt Ion: 91 Resp: 7449
Ion Ratio Lower Upper
91 100
106 28.1 24.6 37.0

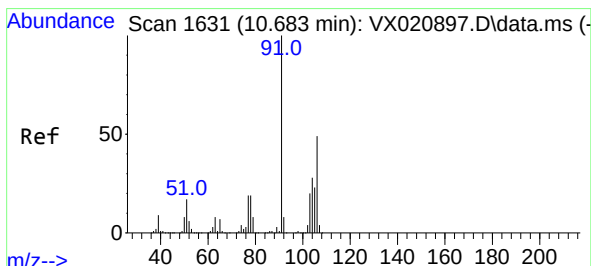
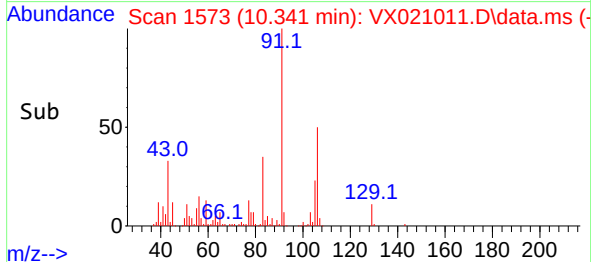
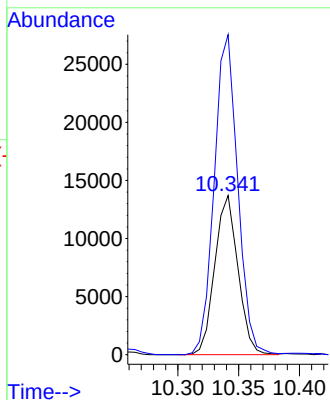
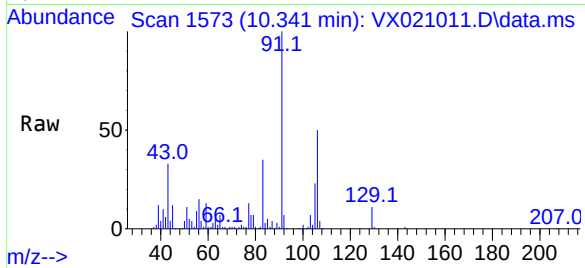




#68
m/p-Xylenes
Concen: 3.31 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

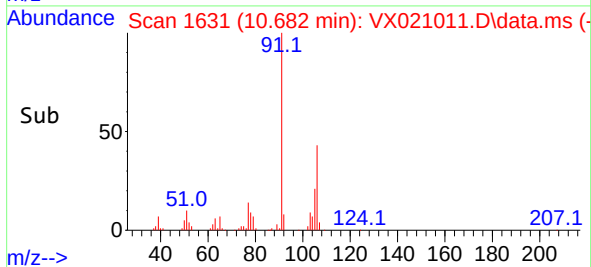
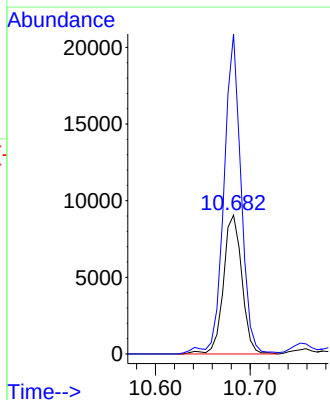
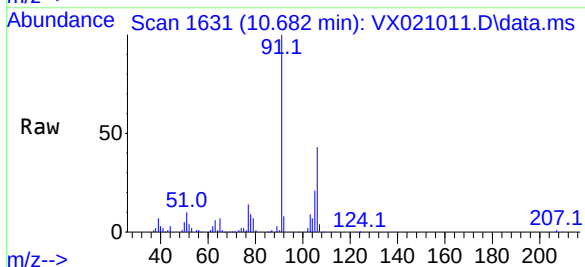
Instrument :
MSVOA_X
ClientSampled :

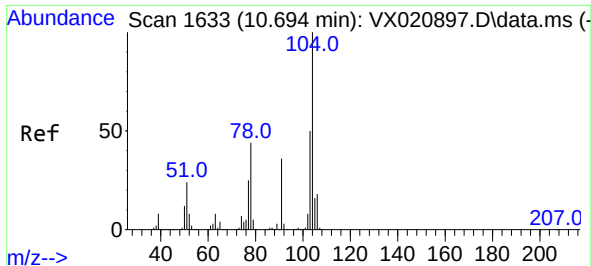
Tgt Ion:106 Resp: 18186
Ion Ratio Lower Upper
106 100
91 203.3 162.8 244.2



#69
o-Xylene
Concen: 2.28 ug/l
RT: 10.682 min Scan# 1631
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

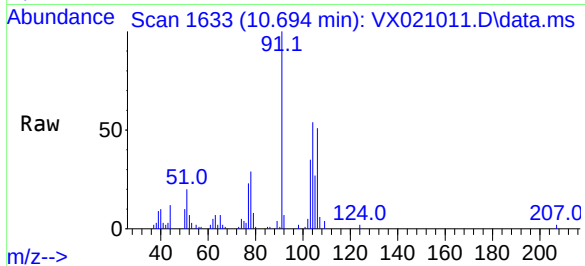
Tgt Ion:106 Resp: 12250
Ion Ratio Lower Upper
106 100
91 214.3 108.1 324.2



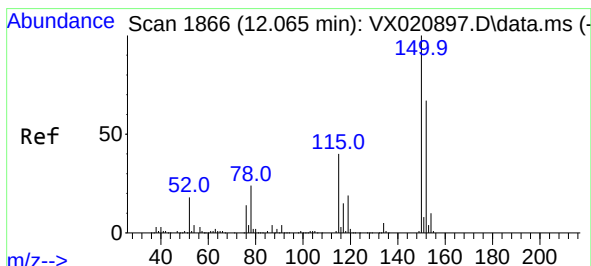
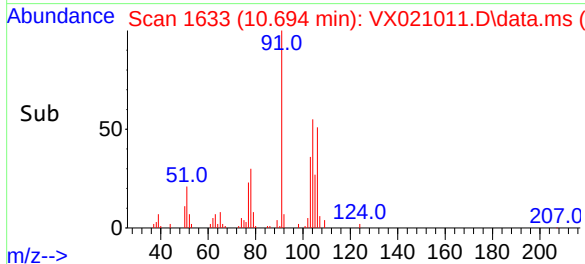
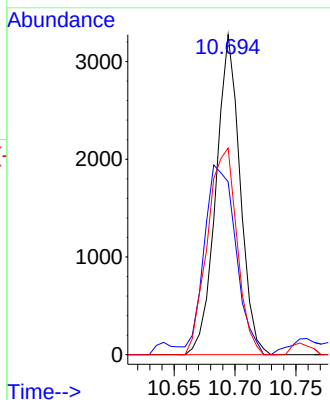


#70
Styrene
Concen: 0.49 ug/l
RT: 10.694 min Scan# 1633
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Instrument :
MSVOA_X
ClientSampleId :

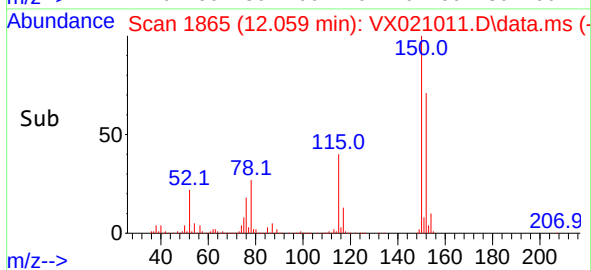
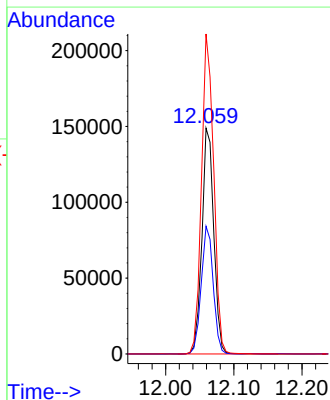
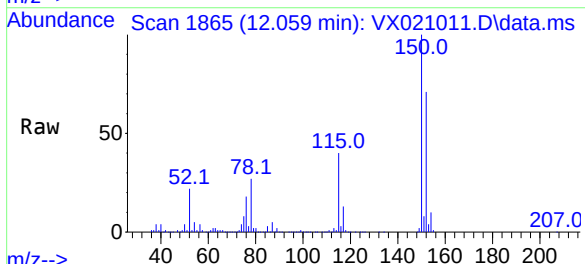


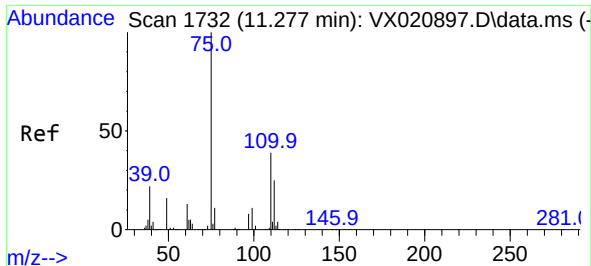
Tgt Ion:104 Resp: 4507
Ion Ratio Lower Upper
104 100
78 77.3 40.0 60.0#
103 79.1 43.4 65.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. -0.006 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Tgt Ion:152 Resp: 179793
Ion Ratio Lower Upper
152 100
115 57.2 41.1 123.3
150 145.7 0.0 349.0

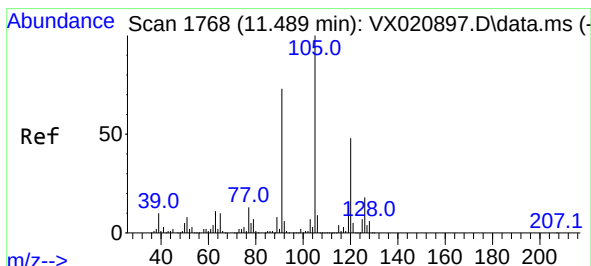
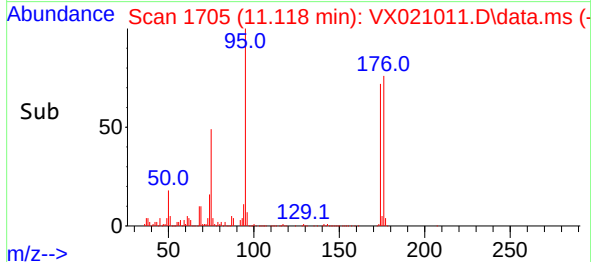
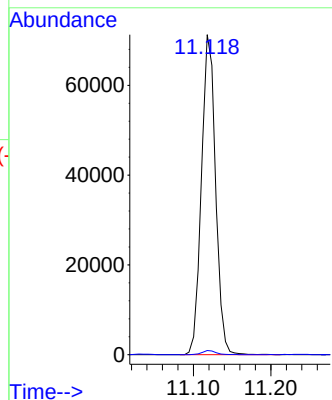
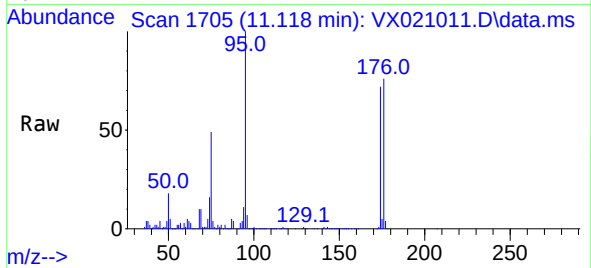




#76
1,2,3-Trichloropropane
Concen: 23.34 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.159 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

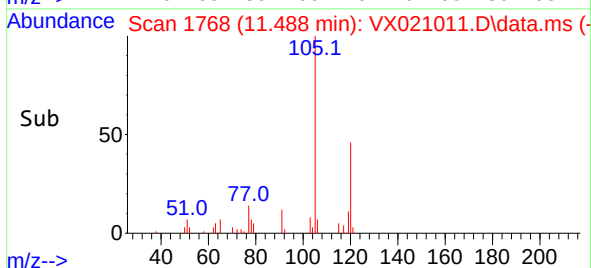
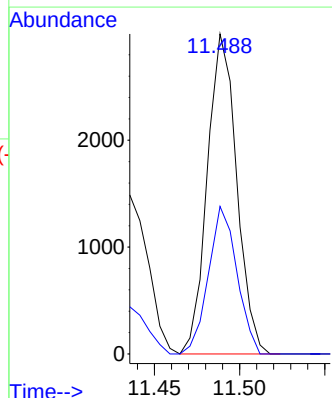
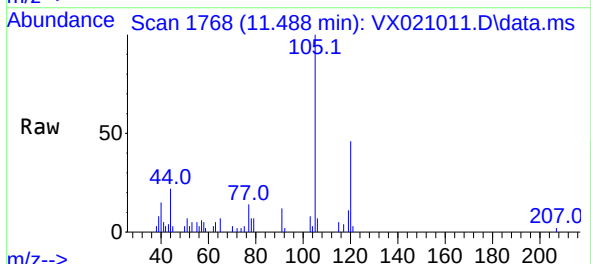
Instrument :
MSVOA_X
ClientSampled :

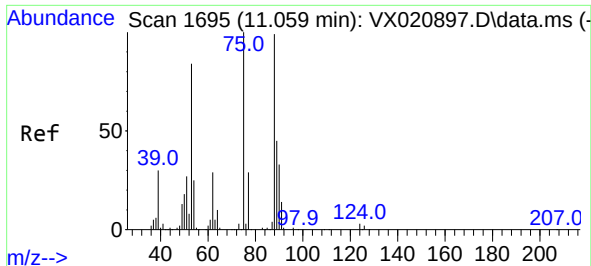
Tgt Ion: 75 Resp: 90278
Ion Ratio Lower Upper
75 100
77 1.3 19.1 57.5#



#80
1,3,5-Trimethylbenzene
Concen: 0.30 ug/l
RT: 11.488 min Scan# 1768
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

Tgt Ion:105 Resp: 3591
Ion Ratio Lower Upper
105 100
120 44.7 23.8 71.5

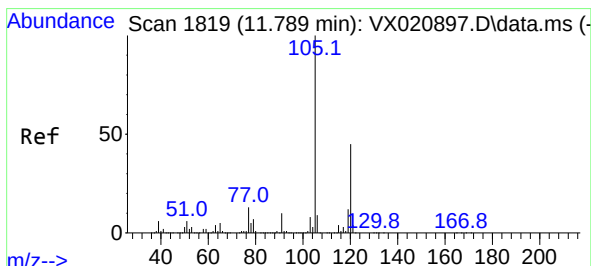
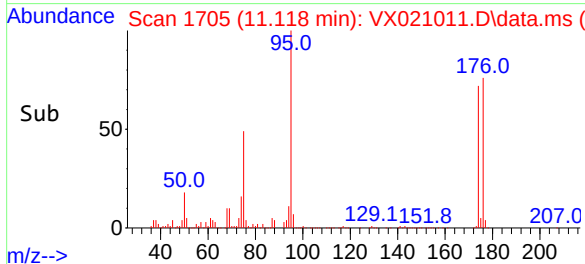
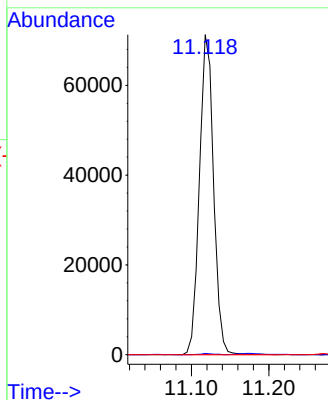
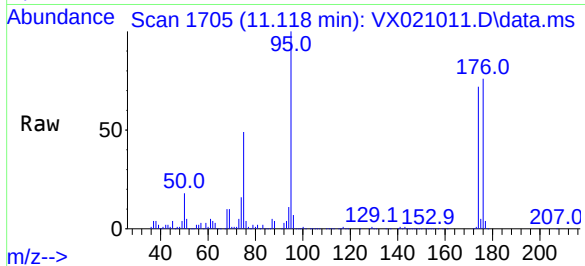




#81
trans-1,4-Dichloro-2-butene
Concen: 51.68 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. 0.059 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

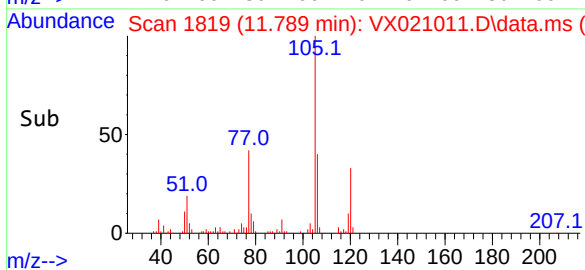
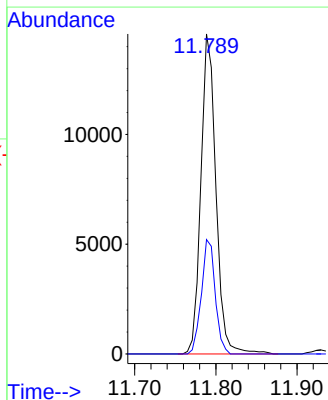
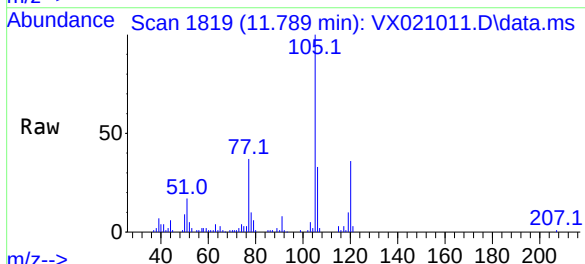
Instrument :
MSVOA_X
ClientSampleId :

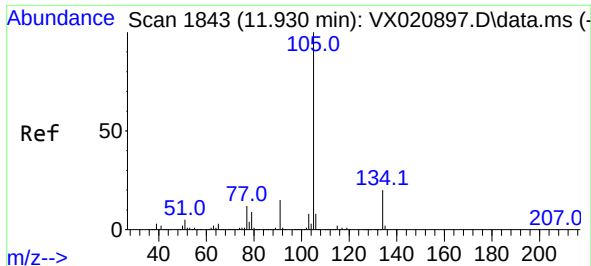
Tgt Ion: 75 Resp: 90278
Ion Ratio Lower Upper
75 100
53 0.4 74.5 111.7#
89 0.0 37.9 56.9#



#84
1,2,4-Trimethylbenzene
Concen: 1.56 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VX021011.D
Acq: 04 Mar 2021 14:03

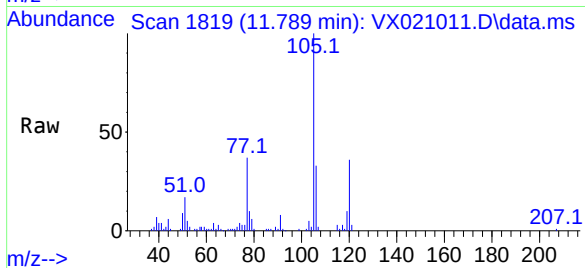
Tgt Ion: 105 Resp: 18741
Ion Ratio Lower Upper
105 100
120 32.9 22.4 67.3



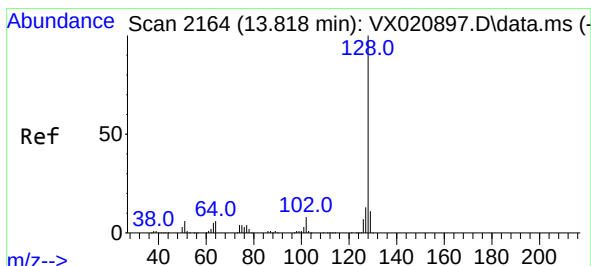
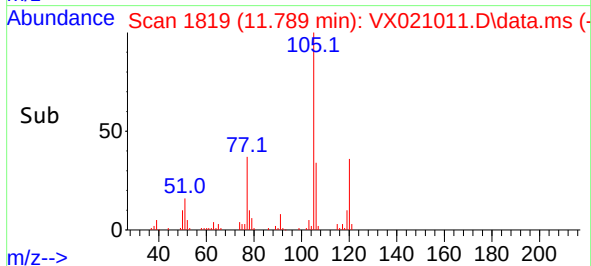
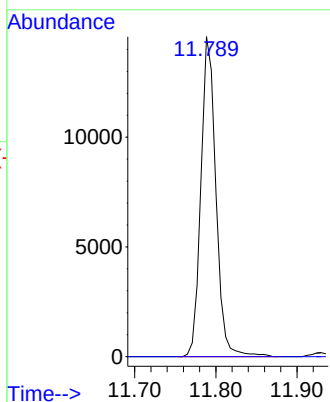


#85
 sec-Butylbenzene
 Concen: 1.38 ug/l
 RT: 11.789 min Scan# 1819
 Delta R.T. -0.141 min
 Lab File: VX021011.D
 Acq: 04 Mar 2021 14:03

Instrument :
 MSVOA_X
 ClientSampled :



Tgt Ion:105 Resp: 18741
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.0 29.8#



#95
 Naphthalene
 Concen: 8.02 ug/l
 RT: 13.818 min Scan# 2164
 Delta R.T. -0.000 min
 Lab File: VX021011.D
 Acq: 04 Mar 2021 14:03

Tgt Ion:128 Resp: 105780
 Ion Ratio Lower Upper
 128 100
 127 12.4 10.3 15.5
 129 10.7 8.8 13.2

