

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031723\
 Data File : VX034609.D
 Acq On : 18 Mar 2023 04:06
 Operator : JC/MD
 Sample : 01954-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SV-TP2-0316

Quant Time: Mar 20 00:15:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X031023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 13 10:29:32 2023
 Response via : Initial Calibration

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

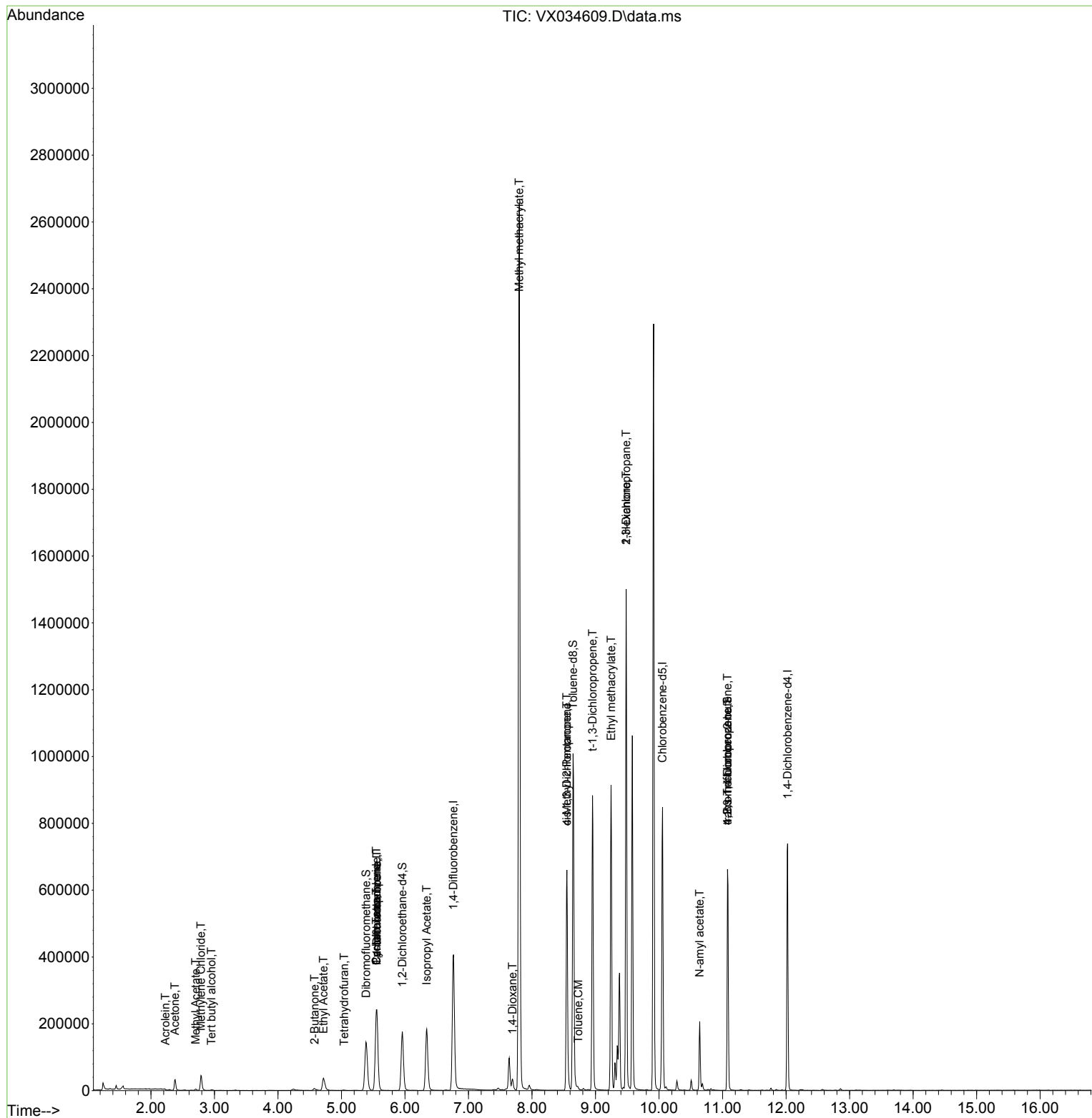
Internal Standards						
1) Pentafluorobenzene	5.556	168	231948	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	6.763	114	398409	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	351522	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	146078	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	160834	47.663	ug/l	0.01
Spiked Amount 50.000	Range 78 - 117		Recovery =	95.320%		
35) Dibromofluoromethane	5.385	113	123632	47.000	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.000%		
50) Toluene-d8	8.647	98	571426	58.191	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	116.380%#		
62) 4-Bromofluorobenzene	11.079	95	175652	44.285	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	88.560%		
Target Compounds						
					Qvalue	
3) Chloromethane	1.294	50	528	Below Cal	#	42
11) Tert butyl alcohol	2.953	59	1809	2.574	ug/l #	85
13) Acrolein	2.227	56	178	0.320	ug/l #	26
16) Acetone	2.380	43	35010	22.026	ug/l	96
18) Methyl Acetate	2.703	43	4917	0.947	ug/l	93
20) Methylene Chloride	2.788	84	20270	6.571	ug/l	99
25) 2-Butanone	4.574	43	11790	5.184	ug/l	94
29) Tetrahydrofuran	5.044	42	1340	0.955	ug/l #	72
31) Cyclohexane	5.550	56	5628	1.189	ug/l #	2
36) 1,1-Dichloropropene	5.556	75	18949	4.690	ug/l #	51
37) Ethyl Acetate	4.715	43	65058	14.740	ug/l	98
38) Carbon Tetrachloride	5.550	117	23927	5.953	ug/l #	16
43) Isopropyl Acetate	6.342	43	254218	33.998	ug/l	100
48) Methyl methacrylate	7.799	41	241754	67.224	ug/l #	47
49) 1,4-Dioxane	7.690	88	52	0.688	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	235948	54.395	ug/l #	49
52) Toluene	8.726	92	2605	0.356	ug/l	83
53) t-1,3-Dichloropropene	8.952	75	1963	0.429	ug/l #	51
54) cis-1,3-Dichloropropene	8.549	75	99987	20.202	ug/l #	61
56) Ethyl methacrylate	9.244	69	1809	0.379	ug/l #	1
57) 1,3-Dichloropropane	9.482	76	11908	2.307	ug/l #	44
59) 2-Hexanone	9.482	43	187148	55.813	ug/l #	51
74) N-amyl acetate	10.640	43	56731	10.491	ug/l #	53
76) 1,2,3-Trichloropropane	11.079	75	94927	28.302	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	94927	76.564	ug/l #	8

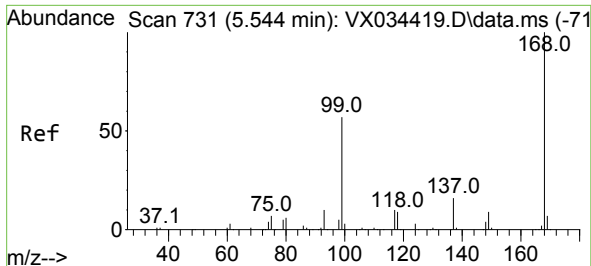
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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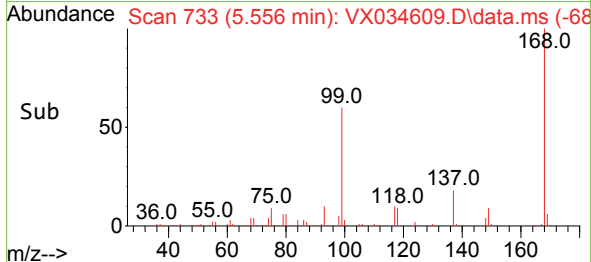
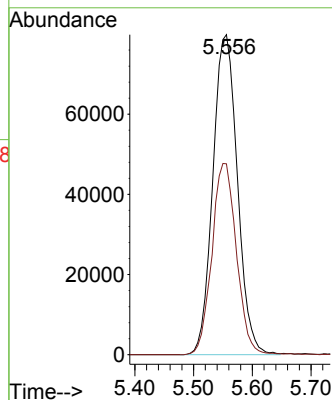
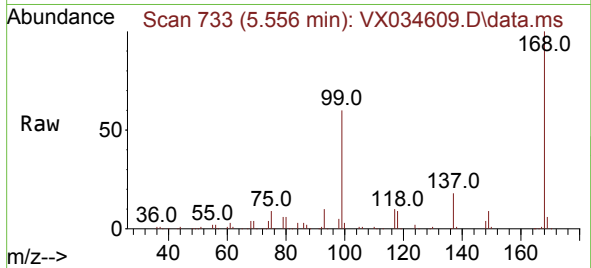




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.012 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

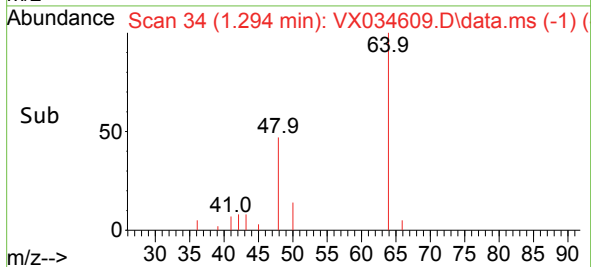
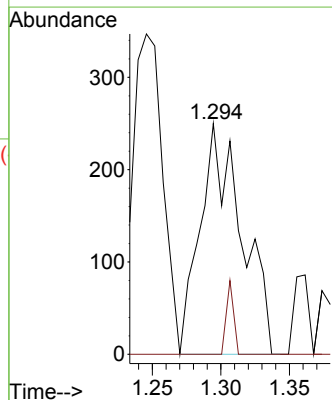
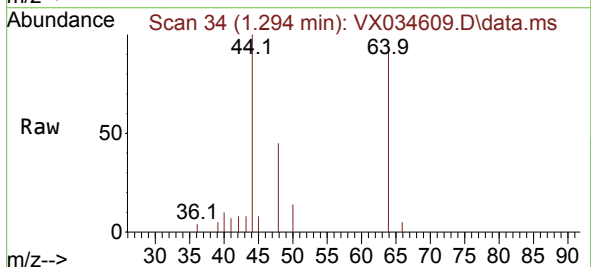
Instrument :
MSVOA_X
ClientSampleId :
SV-TP2-0316

Tgt Ion:168 Resp: 231948
Ion Ratio Lower Upper
168 100
99 59.6 45.7 68.5



#3
Chloromethane
Concen: Below Cal
RT: 1.294 min Scan# 34
Delta R.T. -0.007 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

Tgt Ion: 50 Resp: 528
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#





#11

Tert butyl alcohol

Concen: 2.574 ug/l

RT: 2.953 min Scan# 306

Delta R.T. 0.000 min

Lab File: VX034609.D

Acq: 18 Mar 2023 04:06

Instrument :

MSVOA_X

ClientSampleId :

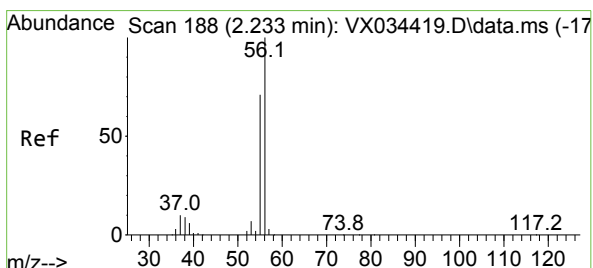
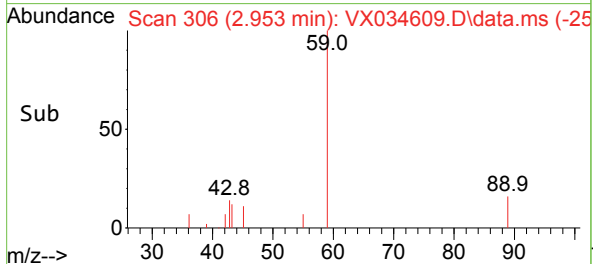
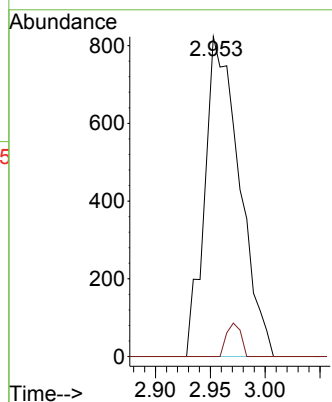
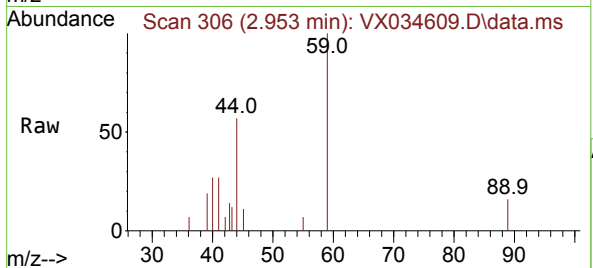
SV-TP2-0316

Tgt Ion: 59 Resp: 1809

Ion Ratio Lower Upper

59 100

57 4.4 8.1 12.1#



#13

Acrolein

Concen: 0.320 ug/l

RT: 2.227 min Scan# 187

Delta R.T. -0.006 min

Lab File: VX034609.D

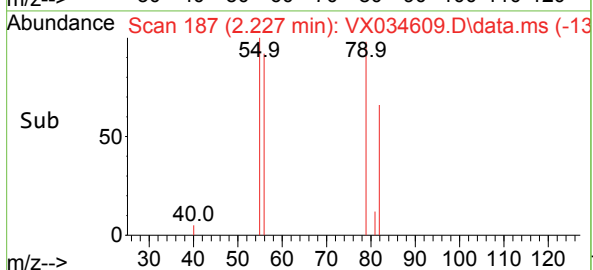
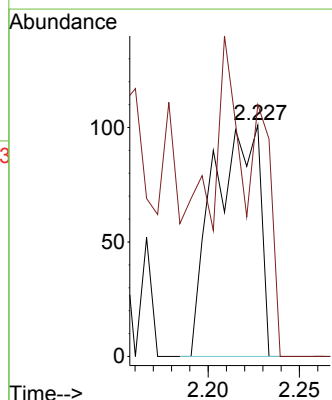
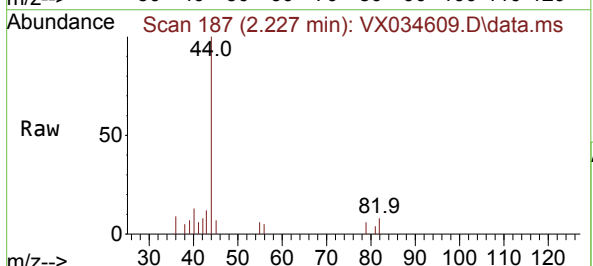
Acq: 18 Mar 2023 04:06

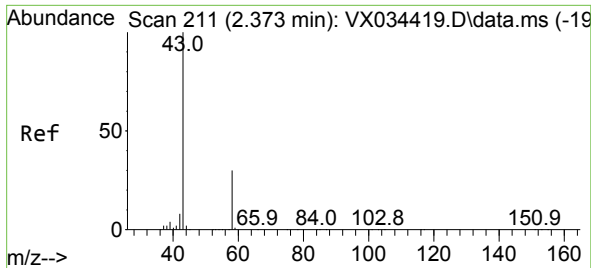
Tgt Ion: 56 Resp: 178

Ion Ratio Lower Upper

56 100

55 132.0 56.6 85.0#

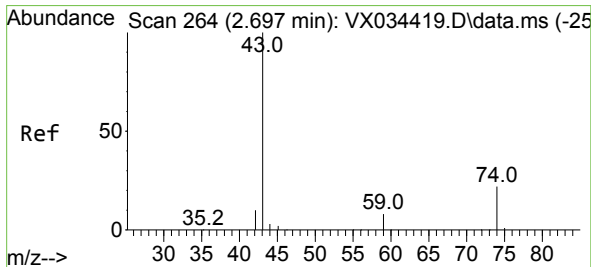
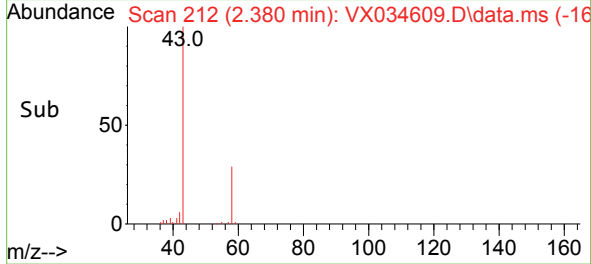
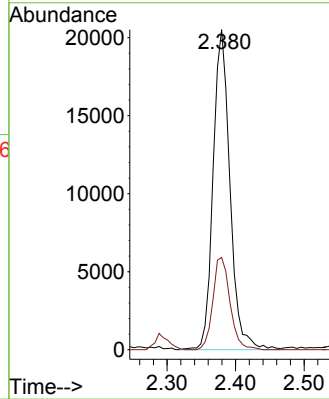
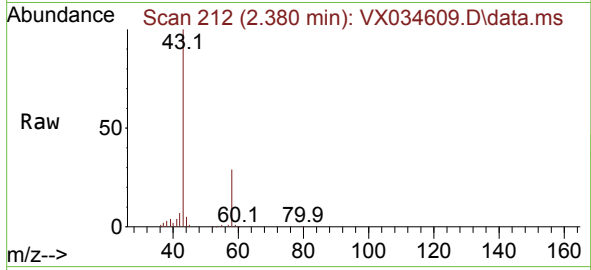




#16
Acetone
Concen: 22.026 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

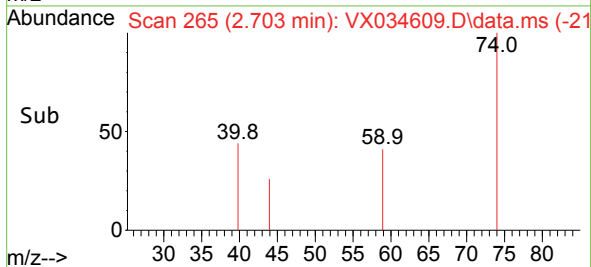
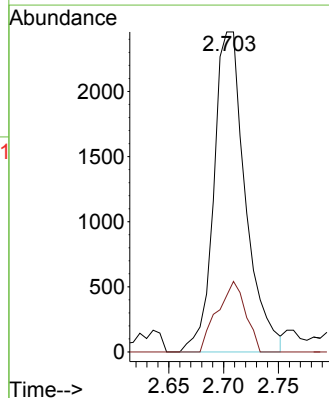
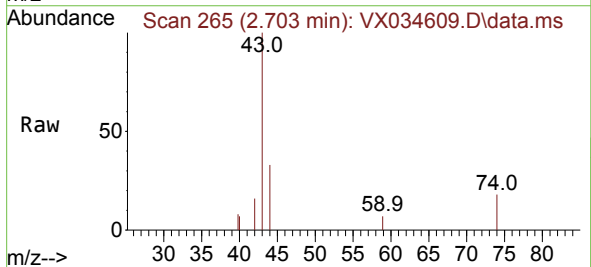
Instrument :
MSVOA_X
ClientSampleId :
SV-TP2-0316

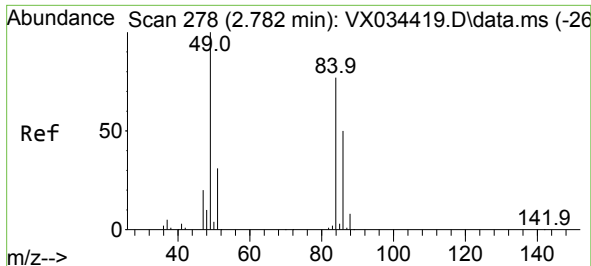
Tgt Ion: 43 Resp: 35010
Ion Ratio Lower Upper
43 100
58 28.8 24.7 37.1



#18
Methyl Acetate
Concen: 0.947 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

Tgt Ion: 43 Resp: 4917
Ion Ratio Lower Upper
43 100
74 19.6 18.3 27.5



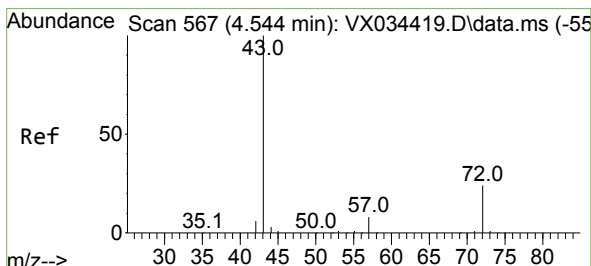
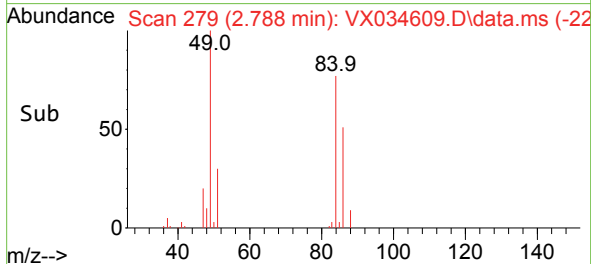
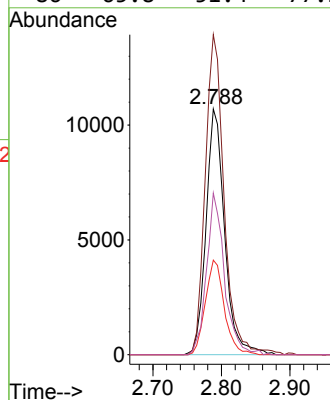
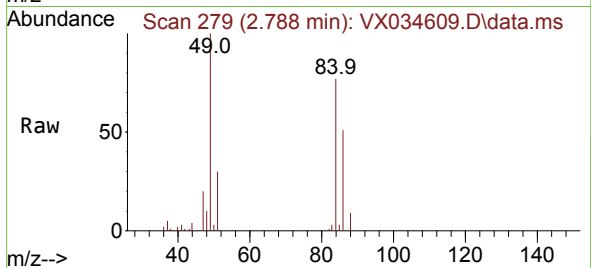


#20
Methylene Chloride
Concen: 6.571 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

Instrument :
MSVOA_X
ClientSampleId :
SV-TP2-0316

Tgt Ion: 84 Resp: 20270

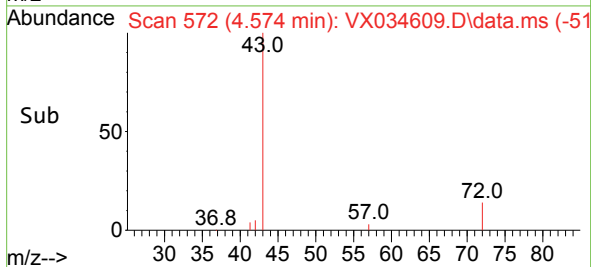
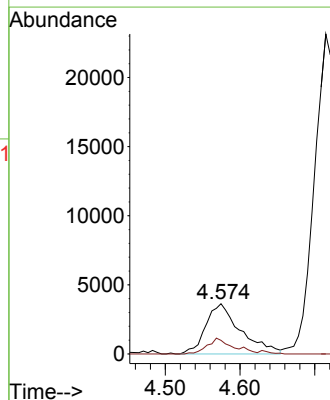
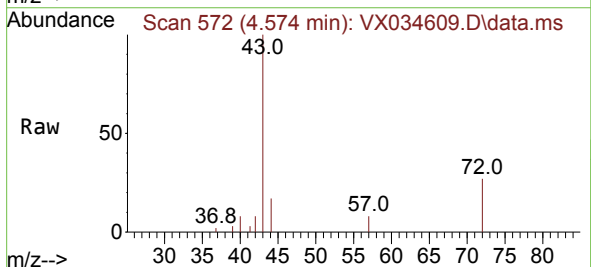
Ion	Ratio	Lower	Upper
84	100		
49	130.2	103.8	155.8
51	38.5	31.8	47.8
86	65.8	51.4	77.2

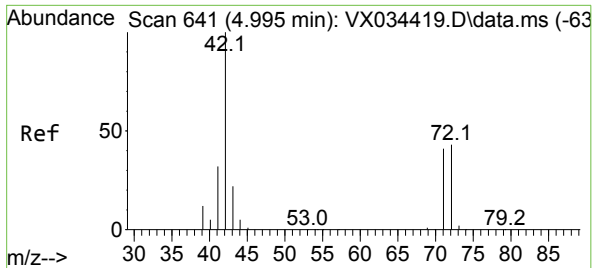


#25
2-Butanone
Concen: 5.184 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.031 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

Tgt Ion: 43 Resp: 11790

Ion	Ratio	Lower	Upper
43	100		
72	27.1	19.3	28.9

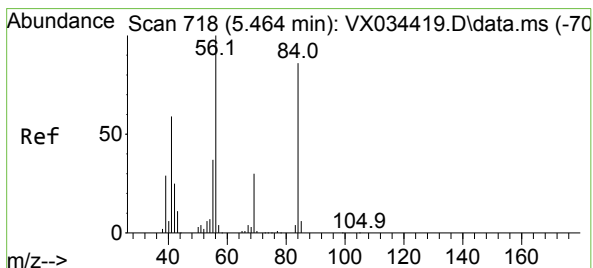
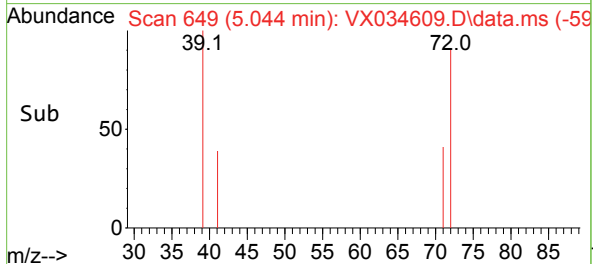
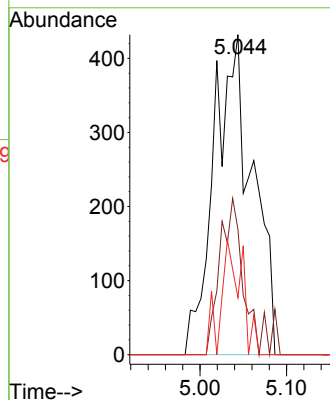
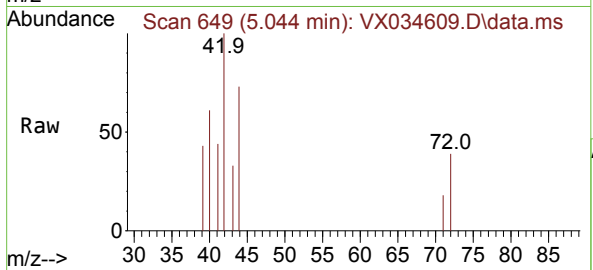




#29
Tetrahydrofuran
Concen: 0.955 ug/l
RT: 5.044 min Scan# 641
Delta R.T. 0.049 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

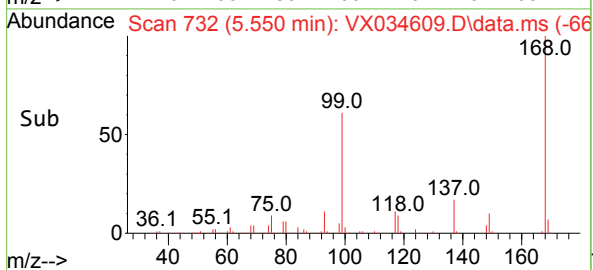
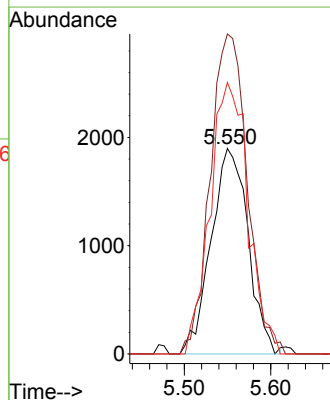
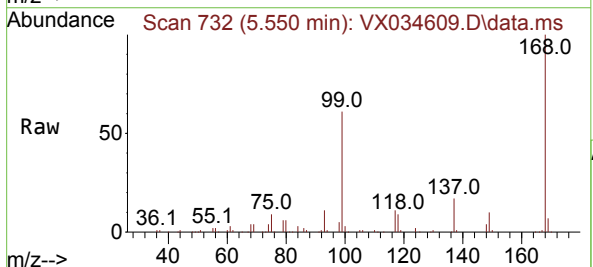
Instrument :
MSVOA_X
ClientSampleId :
SV-TP2-0316

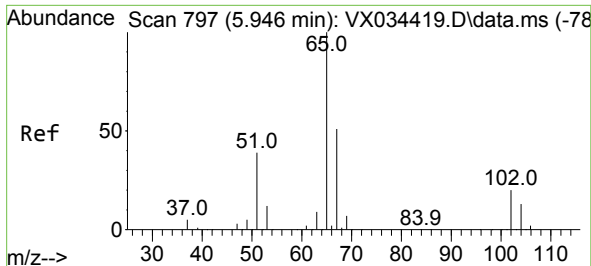
Tgt Ion: 42 Resp: 1340
Ion Ratio Lower Upper
42 100
72 28.5 34.5 51.7#
71 19.5 32.1 48.1#



#31
Cyclohexane
Concen: 1.189 ug/l
RT: 5.550 min Scan# 732
Delta R.T. 0.085 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

Tgt Ion: 56 Resp: 5628
Ion Ratio Lower Upper
56 100
69 155.7 23.7 35.5#
84 132.1 68.5 102.7#





#33

1,2-Dichloroethane-d4

Concen: 47.663 ug/l

RT: 5.958 min Scan# 797

Delta R.T. 0.012 min

Lab File: VX034609.D

Acq: 18 Mar 2023 04:06

Instrument :

MSVOA_X

ClientSampleId :

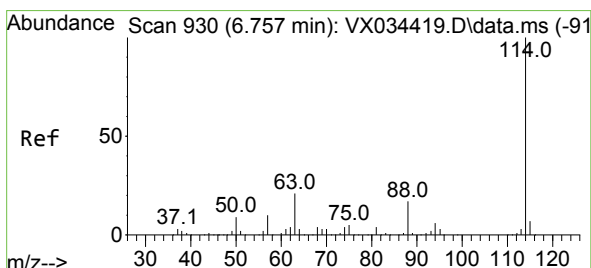
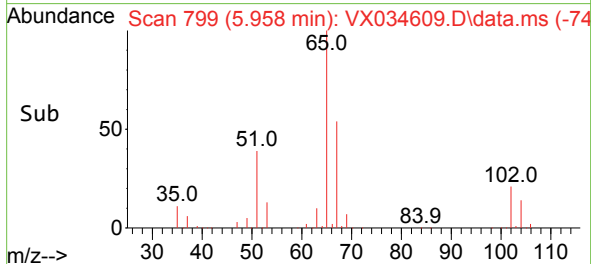
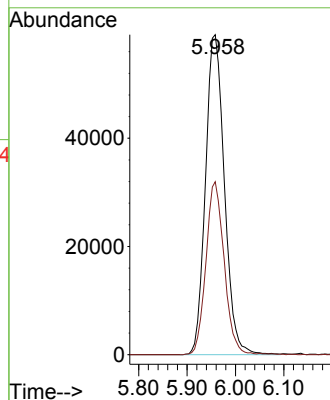
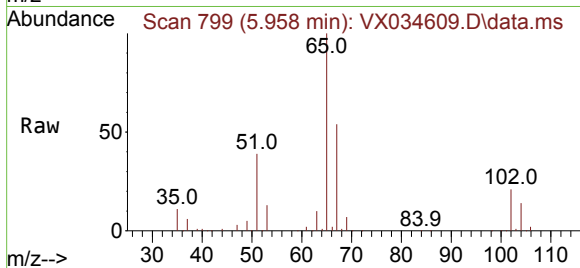
SV-TP2-0316

Tgt Ion: 65 Resp: 160834

Ion Ratio Lower Upper

65 100

67 51.9 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.006 min

Lab File: VX034609.D

Acq: 18 Mar 2023 04:06

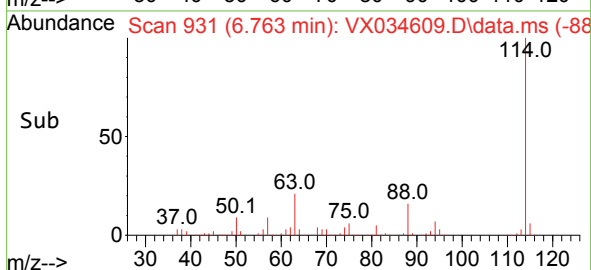
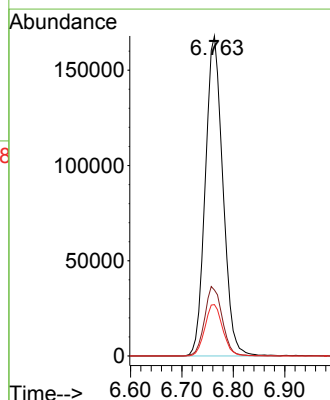
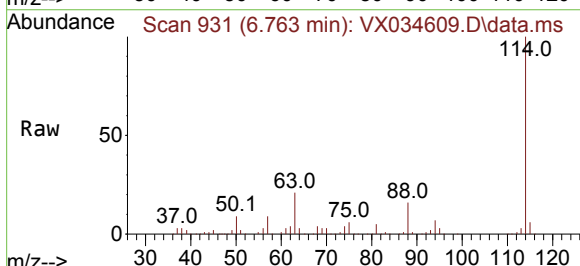
Tgt Ion: 114 Resp: 398409

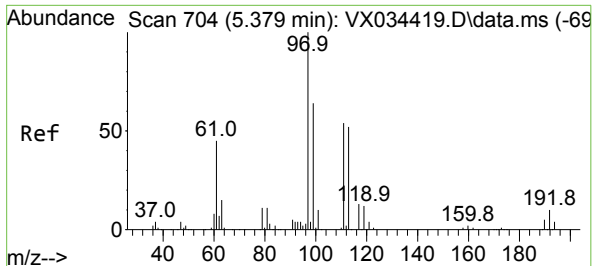
Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.2

88 16.1 0.0 33.2





#35

Dibromofluoromethane

Concen: 47.000 ug/l

RT: 5.385 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX034609.D

Acq: 18 Mar 2023 04:06

Instrument :

MSVOA_X

ClientSampleId :

SV-TP2-0316

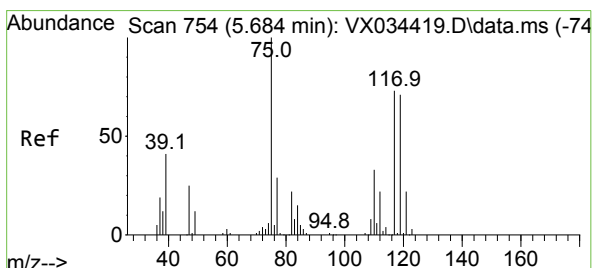
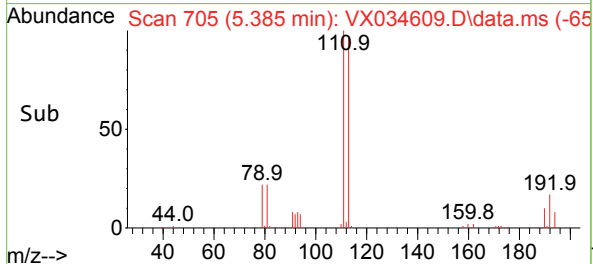
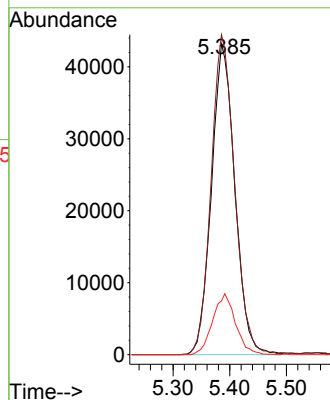
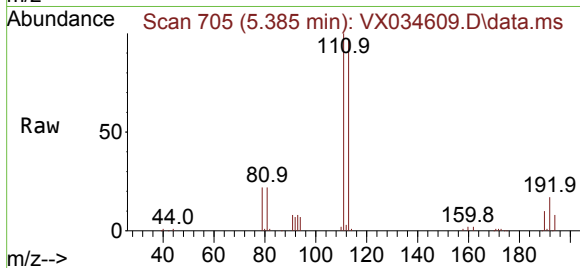
Tgt Ion:113 Resp: 123632

Ion Ratio Lower Upper

113 100

111 103.1 83.7 125.5

192 19.2 15.4 23.2



#36

1,1-Dichloropropene

Concen: 4.690 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.128 min

Lab File: VX034609.D

Acq: 18 Mar 2023 04:06

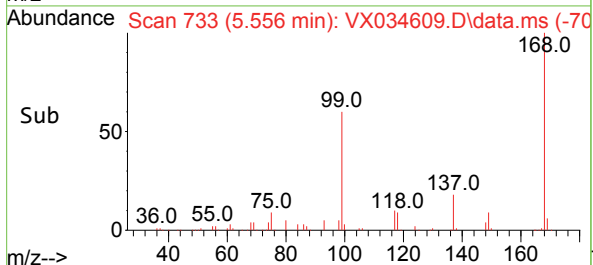
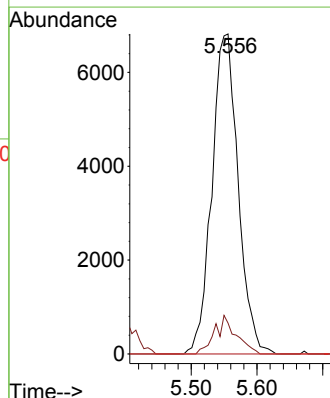
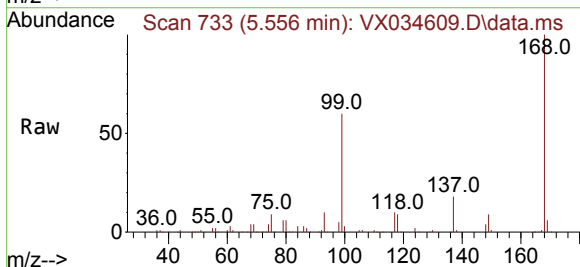
Tgt Ion: 75 Resp: 18949

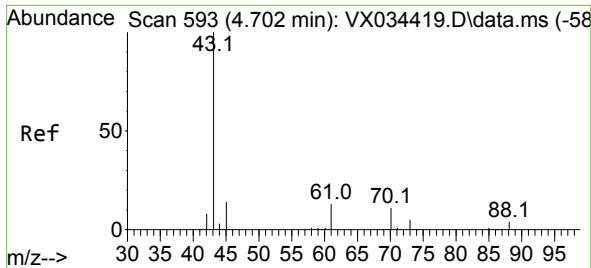
Ion Ratio Lower Upper

75 100

110 9.8 17.5 52.5#

77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 14.740 ug/l

RT: 4.715 min Scan# 593

Delta R.T. 0.012 min

Lab File: VX034609.D

Acq: 18 Mar 2023 04:06

Instrument :

MSVOA_X

ClientSampleId :

SV-TP2-0316

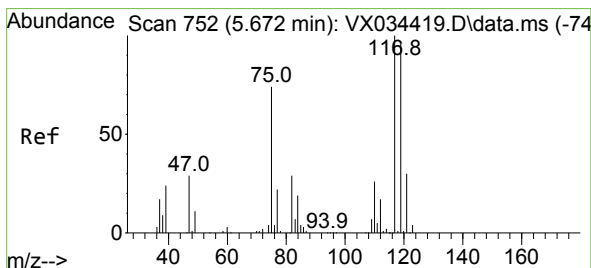
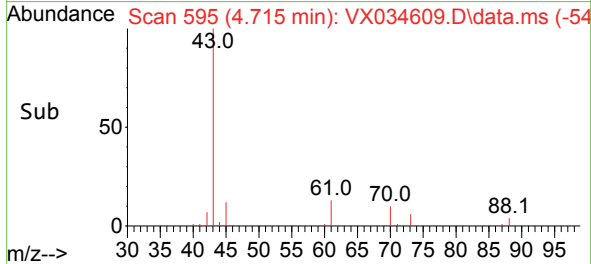
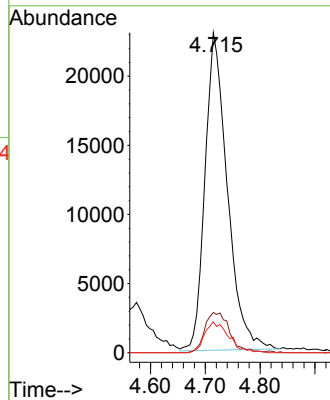
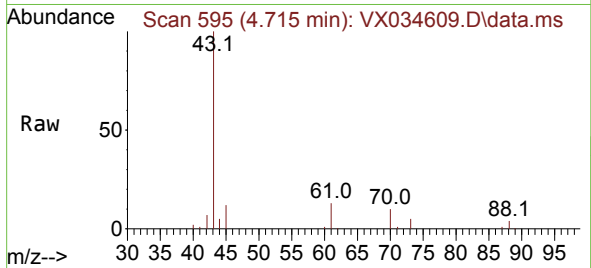
Tgt Ion: 43 Resp: 65058

Ion Ratio Lower Upper

43 100

61 14.1 10.2 15.4

70 10.5 8.2 12.4



#38

Carbon Tetrachloride

Concen: 5.953 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.122 min

Lab File: VX034609.D

Acq: 18 Mar 2023 04:06

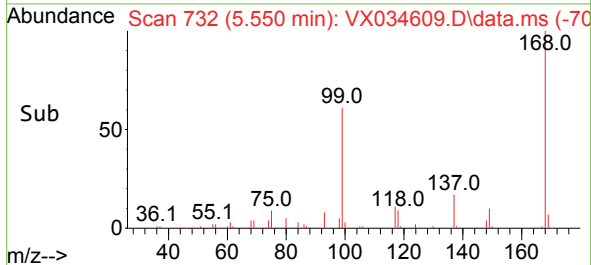
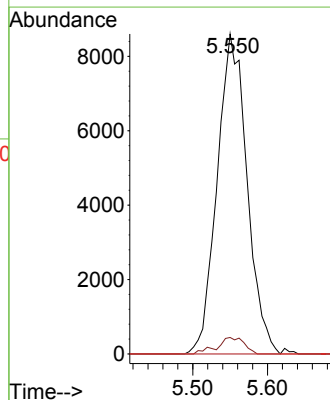
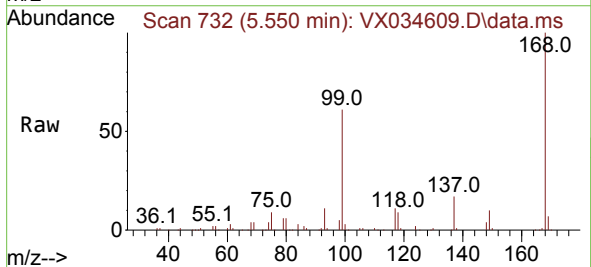
Tgt Ion: 117 Resp: 23927

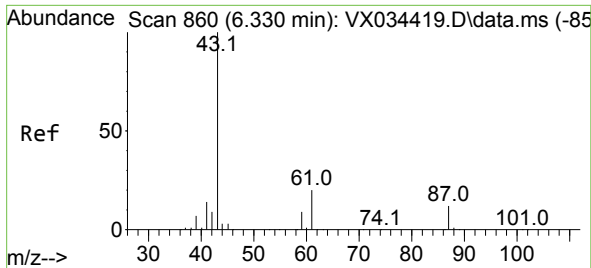
Ion Ratio Lower Upper

117 100

119 5.2 76.6 114.8#

121 0.0 23.8 35.6#





#43

Isopropyl Acetate

Concen: 33.998 ug/l

RT: 6.342 min Scan# 8

Delta R.T. 0.012 min

Lab File: VX034609.D

Acq: 18 Mar 2023 04:06

Instrument :

MSVOA_X

ClientSampleId :

SV-TP2-0316

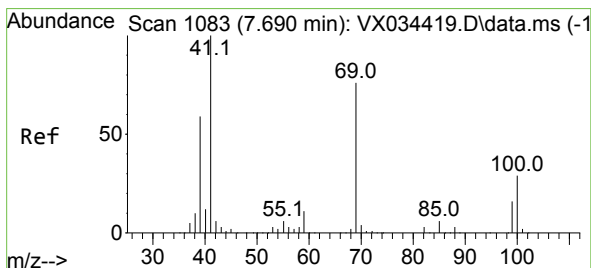
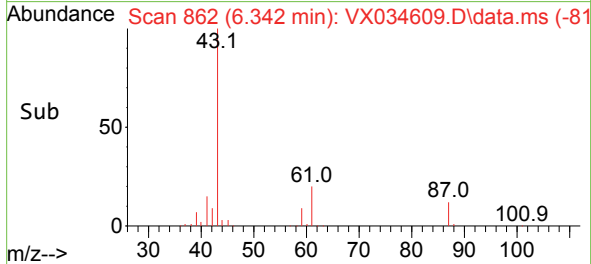
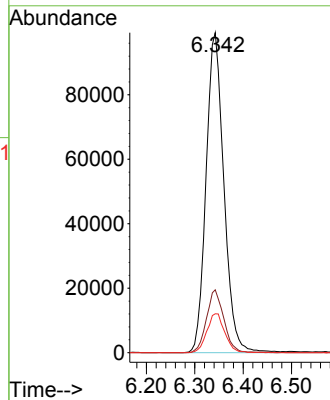
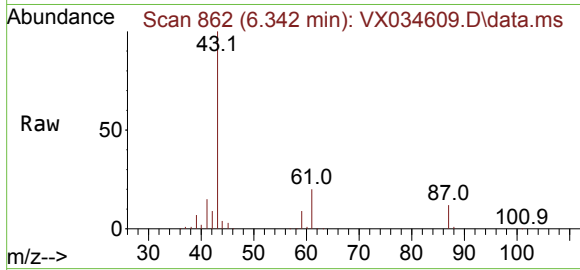
Tgt Ion: 43 Resp: 254218

Ion Ratio Lower Upper

43 100

61 19.2 15.2 22.8

87 12.2 9.8 14.8



#48

Methyl methacrylate

Concen: 67.224 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.110 min

Lab File: VX034609.D

Acq: 18 Mar 2023 04:06

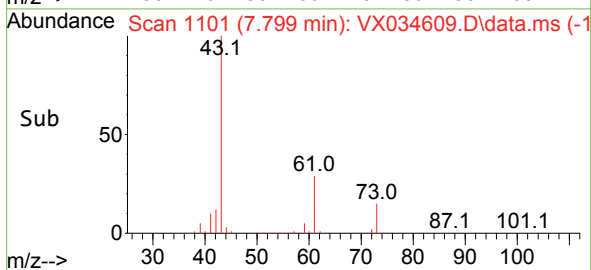
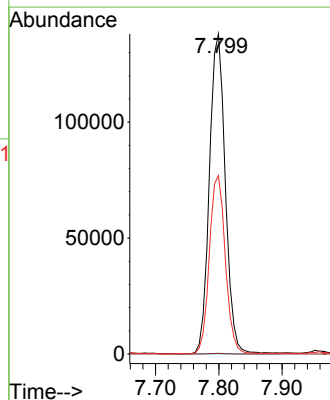
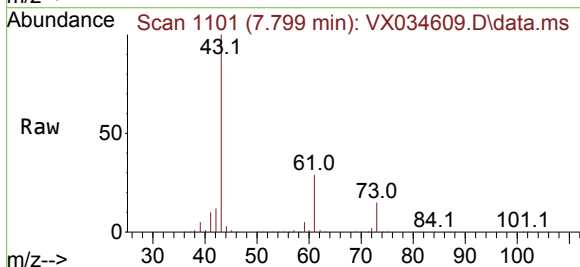
Tgt Ion: 41 Resp: 241754

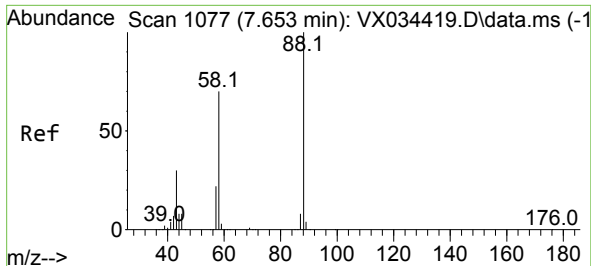
Ion Ratio Lower Upper

41 100

69 0.2 62.2 93.4#

39 56.0 47.7 71.5





#49

1,4-Dioxane

Concen: 0.688 ug/l

RT: 7.690 min Scan# 1077

Delta R.T. 0.037 min

Lab File: VX034609.D

Acq: 18 Mar 2023 04:06

Instrument :

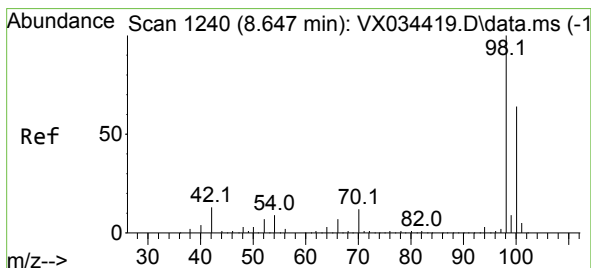
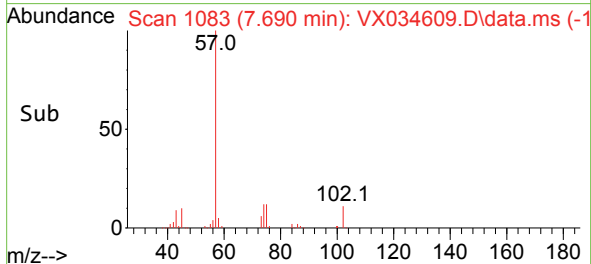
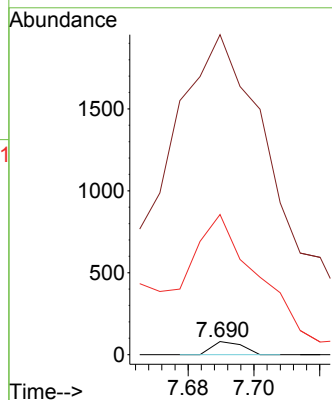
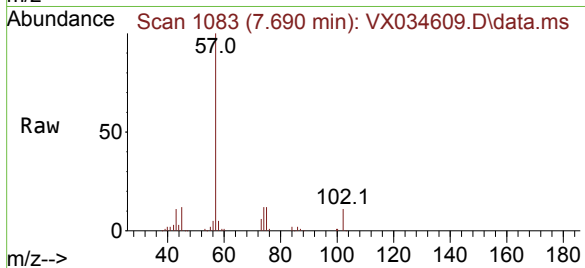
MSVOA_X

ClientSampleId :

SV-TP2-0316

Tgt Ion: 88 Resp: 52

Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.7	41.5#
58	2646.2	56.8	85.2#



#50

Toluene-d8

Concen: 58.191 ug/l

RT: 8.647 min Scan# 1240

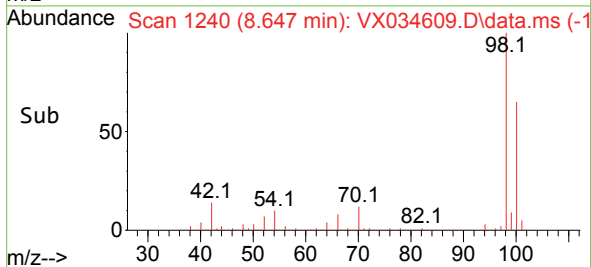
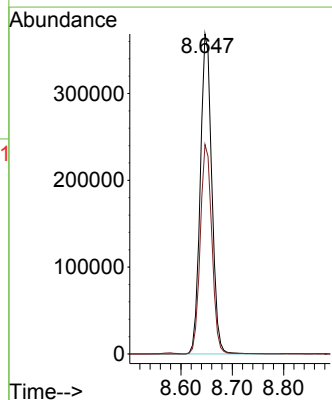
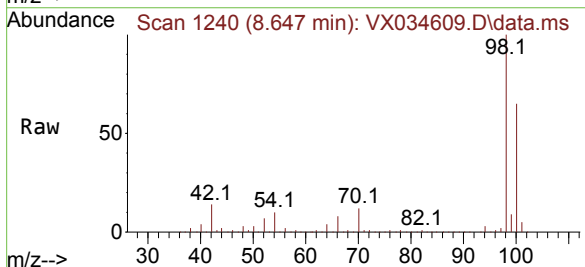
Delta R.T. 0.000 min

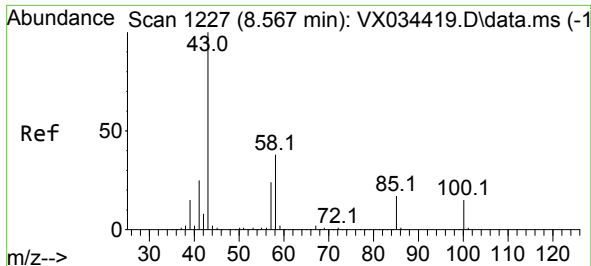
Lab File: VX034609.D

Acq: 18 Mar 2023 04:06

Tgt Ion: 98 Resp: 571426

Ion	Ratio	Lower	Upper
98	100		
100	66.3	52.5	78.7

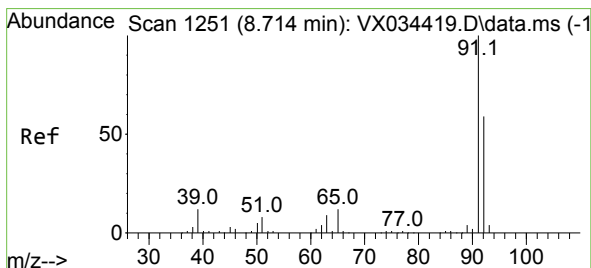
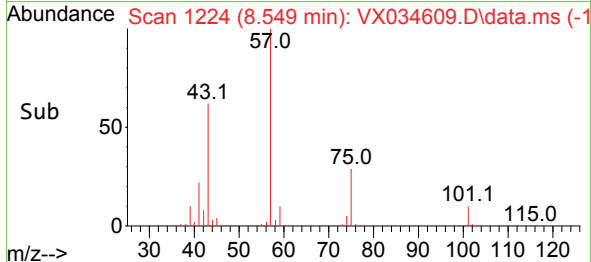
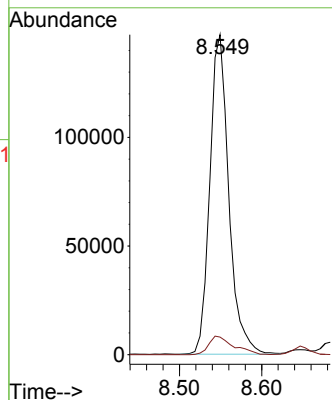
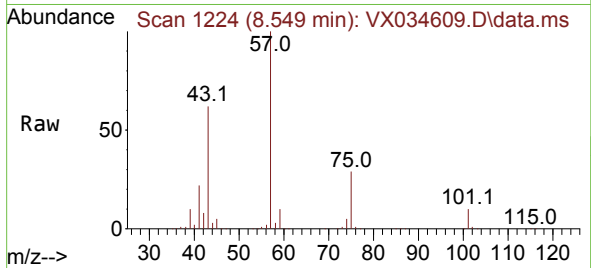




#51
4-Methyl-2-Pentanone
Concen: 54.395 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.018 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

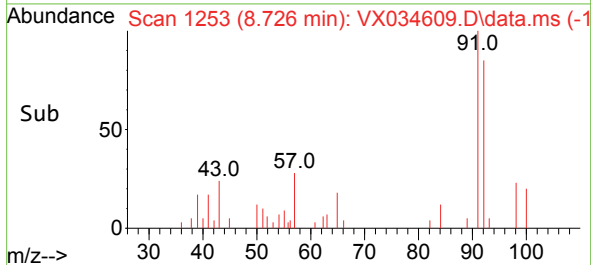
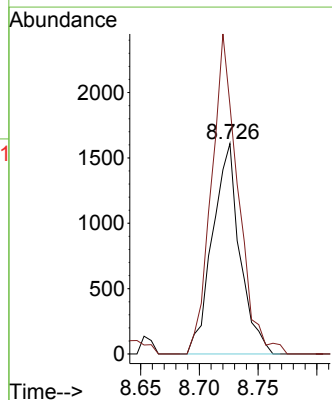
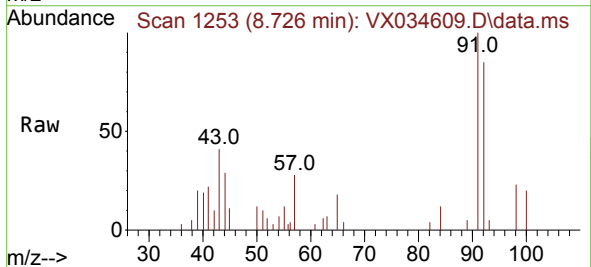
Instrument :
MSVOA_X
ClientSampleId :
SV-TP2-0316

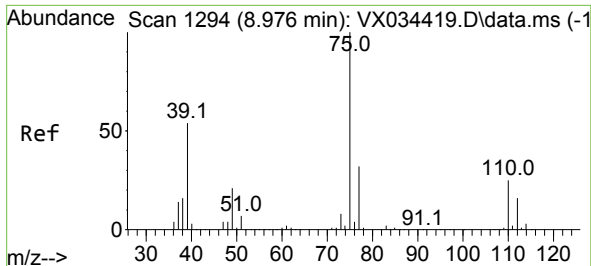
Tgt Ion: 43 Resp: 235948
Ion Ratio Lower Upper
43 100
58 7.6 30.6 46.0#



#52
Toluene
Concen: 0.356 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.012 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

Tgt Ion: 92 Resp: 2605
Ion Ratio Lower Upper
92 100
91 147.6 136.8 205.2

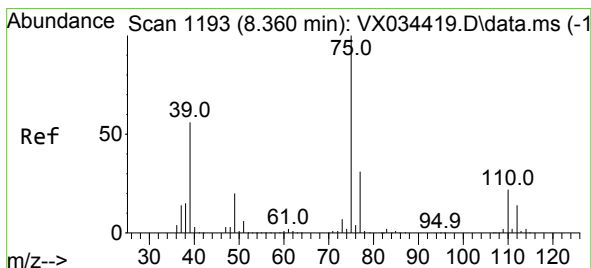
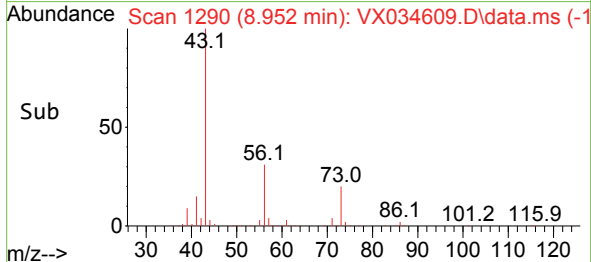
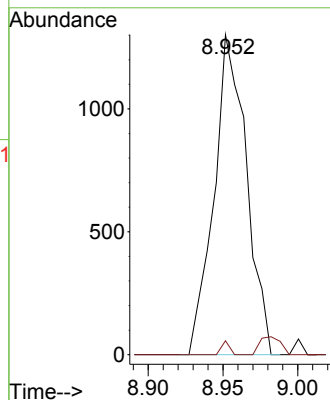
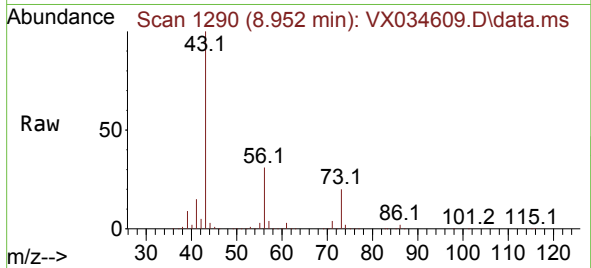




#53
 t-1,3-Dichloropropene
 Concen: 0.429 ug/l
 RT: 8.952 min Scan# 11
 Delta R.T. -0.024 min
 Lab File: VX034609.D
 Acq: 18 Mar 2023 04:06

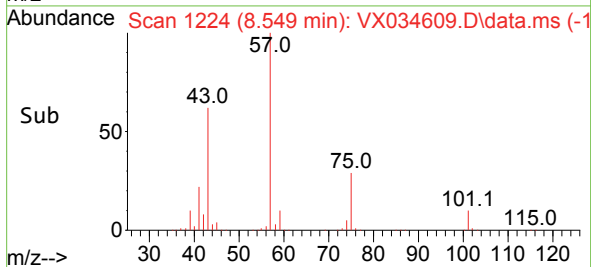
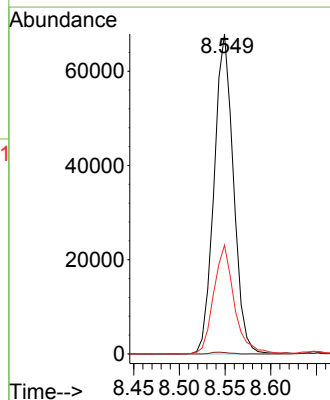
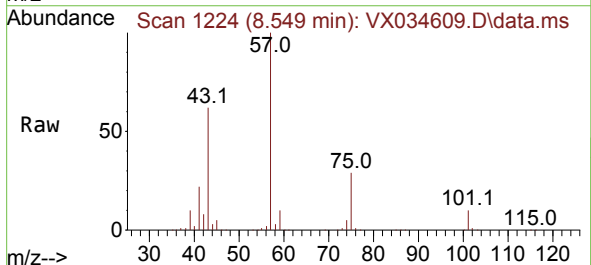
Instrument :
 MSVOA_X
 ClientSampleId :
 SV-TP2-0316

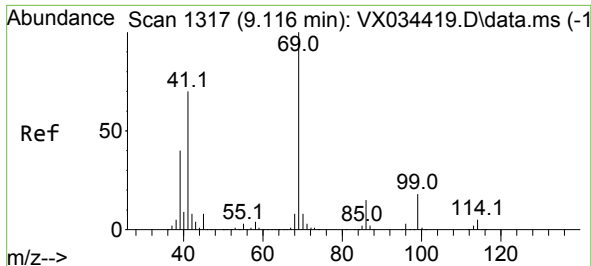
Tgt Ion: 75 Resp: 1963
 Ion Ratio Lower Upper
 75 100
 77 4.4 25.4 38.2#



#54
 cis-1,3-Dichloropropene
 Concen: 20.202 ug/l
 RT: 8.549 min Scan# 1224
 Delta R.T. 0.189 min
 Lab File: VX034609.D
 Acq: 18 Mar 2023 04:06

Tgt Ion: 75 Resp: 99987
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.0 37.4#
 39 34.0 44.6 66.8#

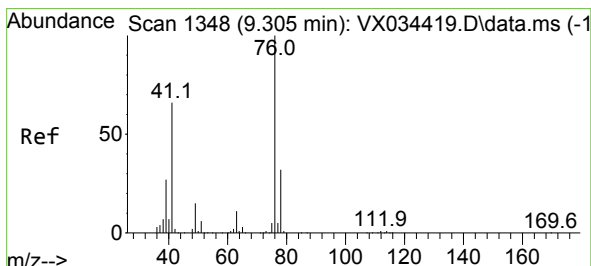
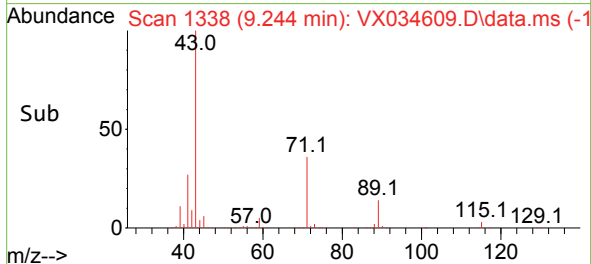
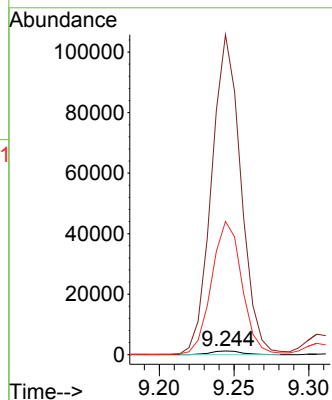
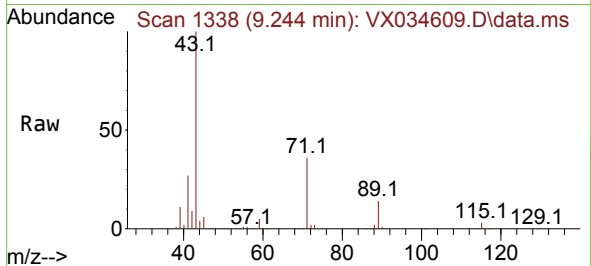




#56
Ethyl methacrylate
Concen: 0.379 ug/l
RT: 9.244 min Scan# 1338
Delta R.T. 0.128 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

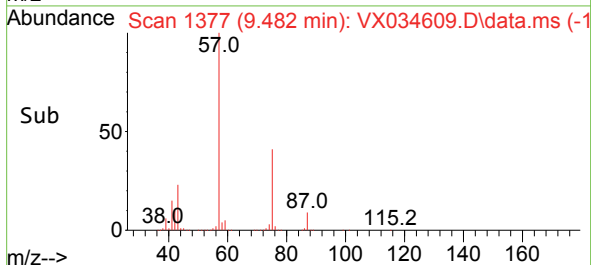
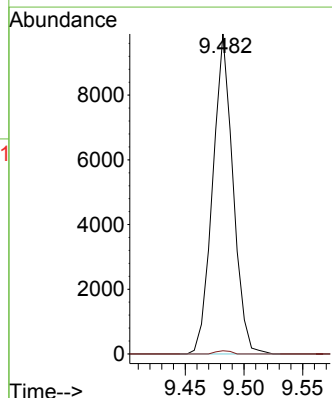
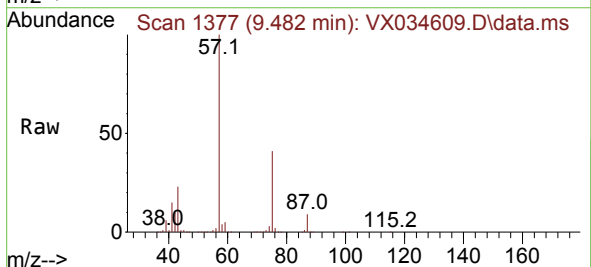
Instrument :
MSVOA_X
ClientSampleId :
SV-TP2-0316

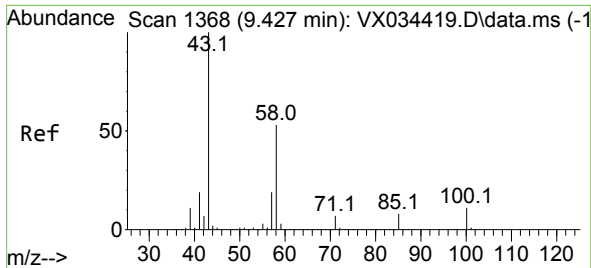
Tgt Ion: 69 Resp: 1809
Ion Ratio Lower Upper
69 100
41 7981.3 57.4 86.0#
39 3418.5 33.7 50.5#



#57
1,3-Dichloropropane
Concen: 2.307 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

Tgt Ion: 76 Resp: 11908
Ion Ratio Lower Upper
76 100
78 0.7 25.8 38.8#

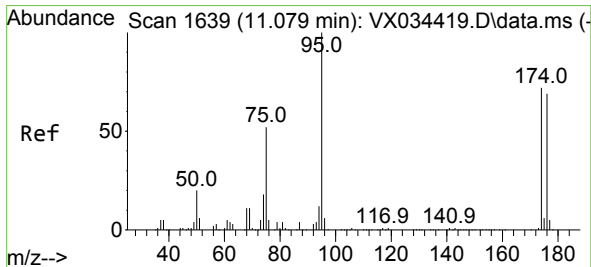
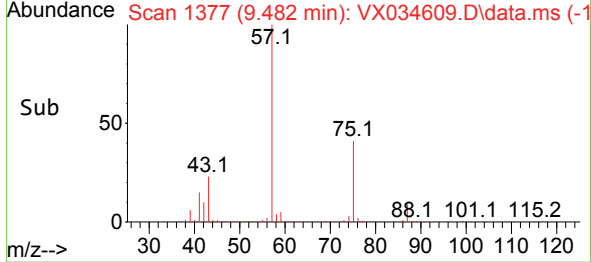
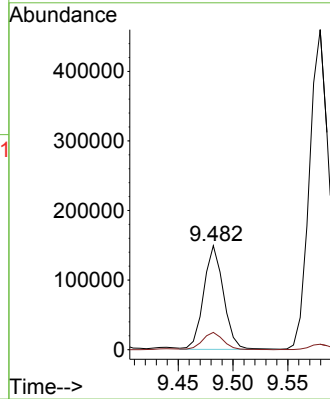
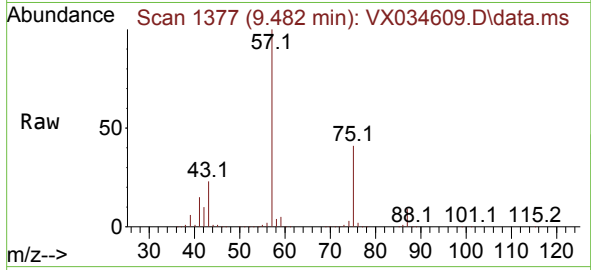




#59
2-Hexanone
Concen: 55.813 ug/l
RT: 9.482 min Scan# 11
Delta R.T. 0.055 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

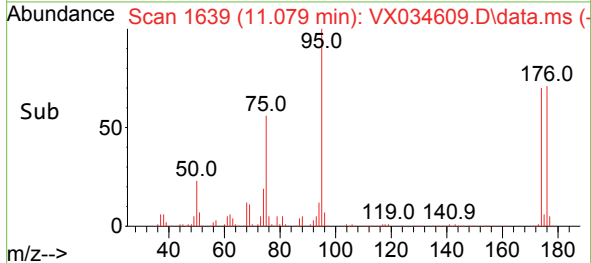
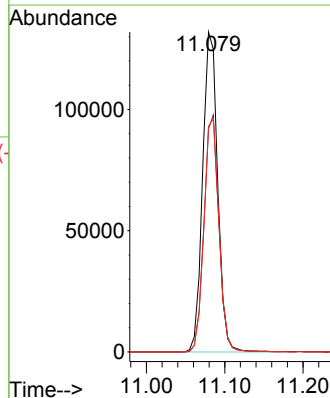
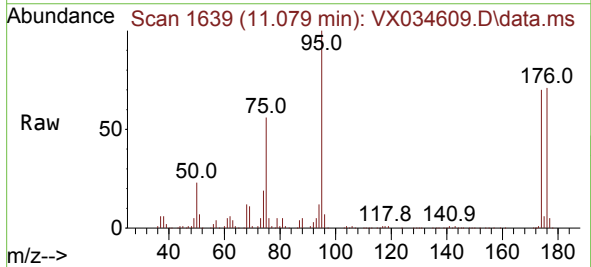
Instrument :
MSVOA_X
ClientSampleId :
SV-TP2-0316

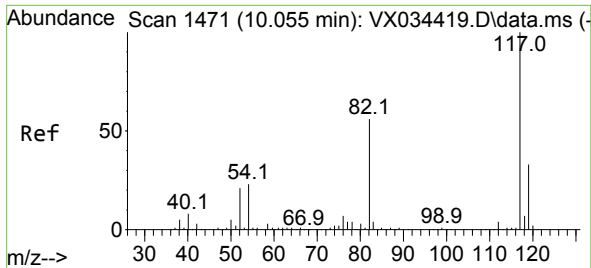
Tgt Ion: 43 Resp: 187148
Ion Ratio Lower Upper
43 100
58 17.9 26.3 78.9#



#62
4-Bromofluorobenzene
Concen: 44.285 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

Tgt Ion: 95 Resp: 175652
Ion Ratio Lower Upper
95 100
174 73.4 0.0 147.4
176 72.9 0.0 140.6

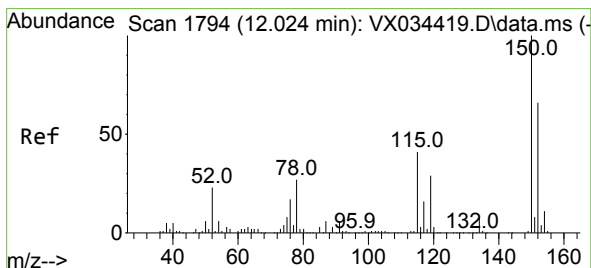
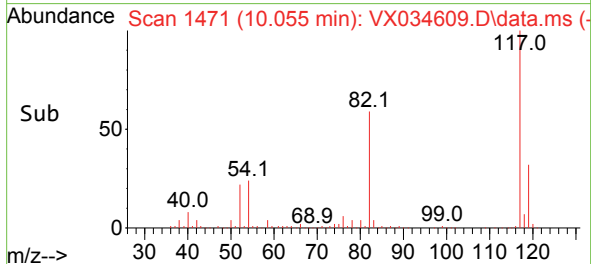
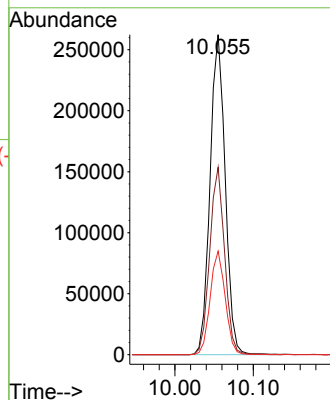
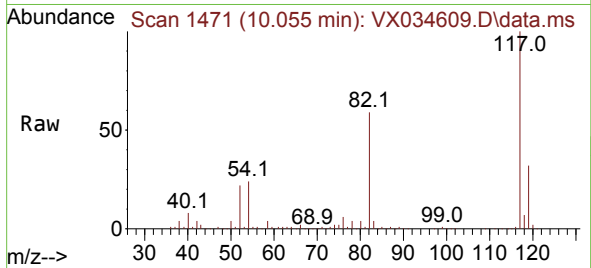




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

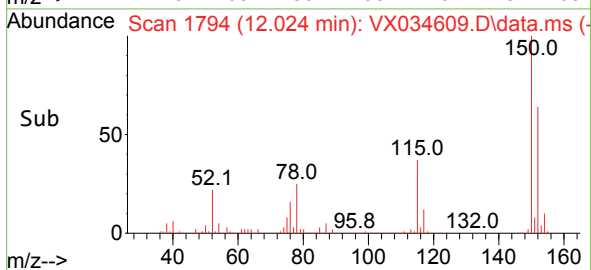
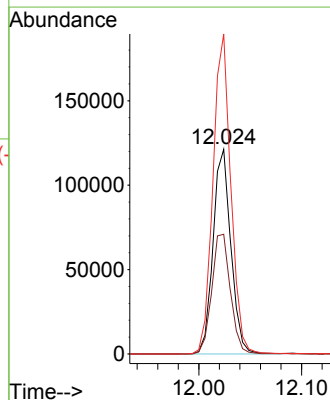
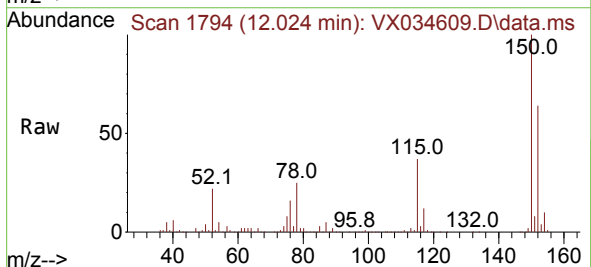
Instrument :
MSVOA_X
ClientSampleId :
SV-TP2-0316

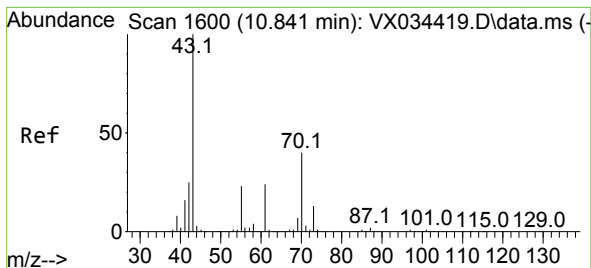
Tgt Ion:117 Resp: 351522
Ion Ratio Lower Upper
117 100
82 58.6 45.0 67.4
119 32.4 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX034609.D
Acq: 18 Mar 2023 04:06

Tgt Ion:152 Resp: 146078
Ion Ratio Lower Upper
152 100
115 61.3 45.0 135.0
150 156.4 0.0 352.4





#74

N-amy1 acetate

Concen: 10.491 ug/l

RT: 10.640 min Scan# 1

Delta R.T. -0.201 min

Lab File: VX034609.D

Acq: 18 Mar 2023 04:06

Instrument :

MSVOA_X

ClientSampleId :

SV-TP2-0316

Tgt Ion: 43 Resp: 56731

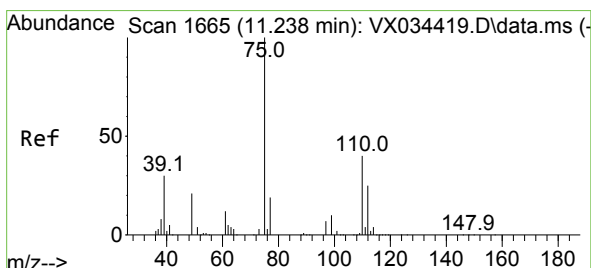
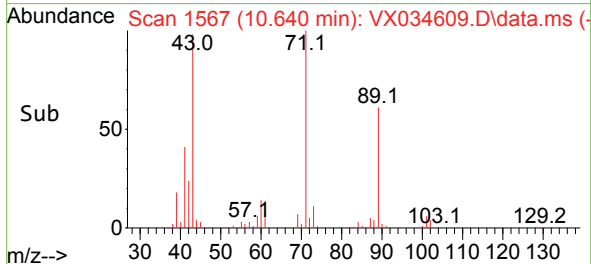
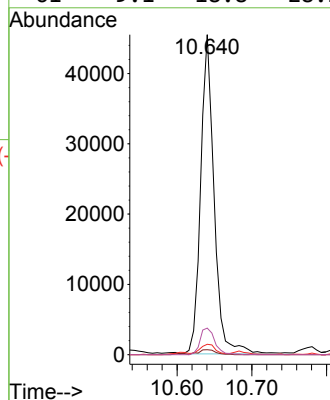
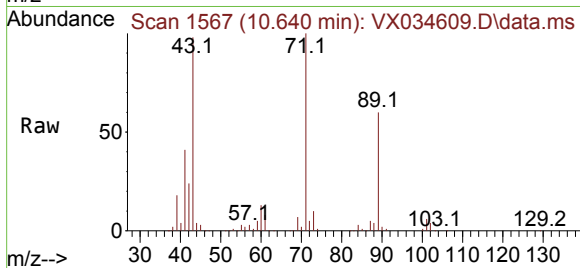
Ion Ratio Lower Upper

43 100

70 2.0 32.1 48.1#

55 3.8 18.3 27.5#

61 9.1 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 28.302 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX034609.D

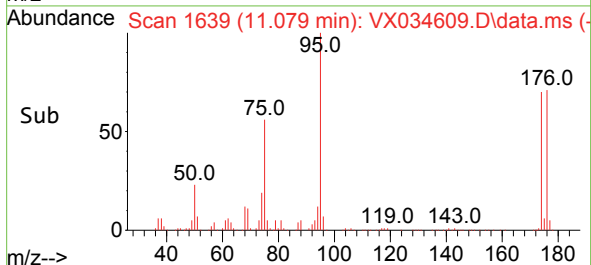
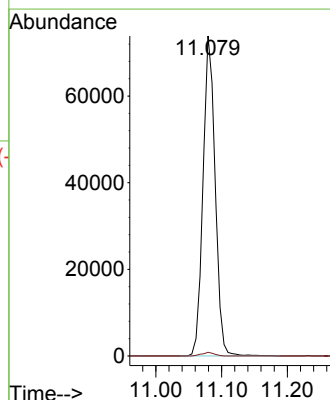
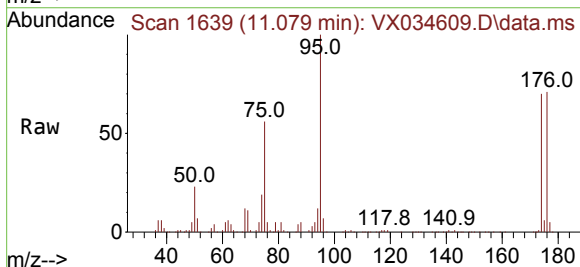
Acq: 18 Mar 2023 04:06

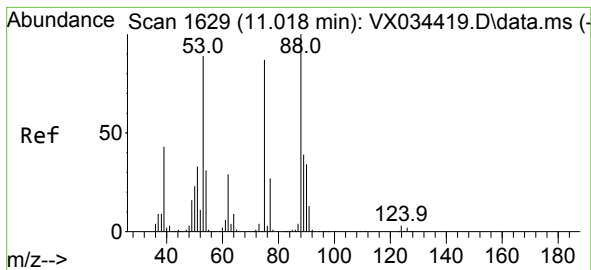
Tgt Ion: 75 Resp: 94927

Ion Ratio Lower Upper

75 100

77 1.2 21.6 64.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.564 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX034609.D
 Acq: 18 Mar 2023 04:06

Instrument :
 MSVOA_X
 ClientSampleId :
 SV-TP2-0316

Tgt Ion: 75 Resp: 94927
 Ion Ratio Lower Upper
 75 100
 53 0.0 82.6 124.0#
 89 0.1 36.9 55.3#

