

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092622\
 Data File : VX031681.D
 Acq On : 27 Sep 2022 04:40
 Operator : JC/MD
 Sample : N4764-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 R2

Quant Time: Sep 27 05:20:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X092622W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 27 01:44:18 2022
 Response via : Initial Calibration

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

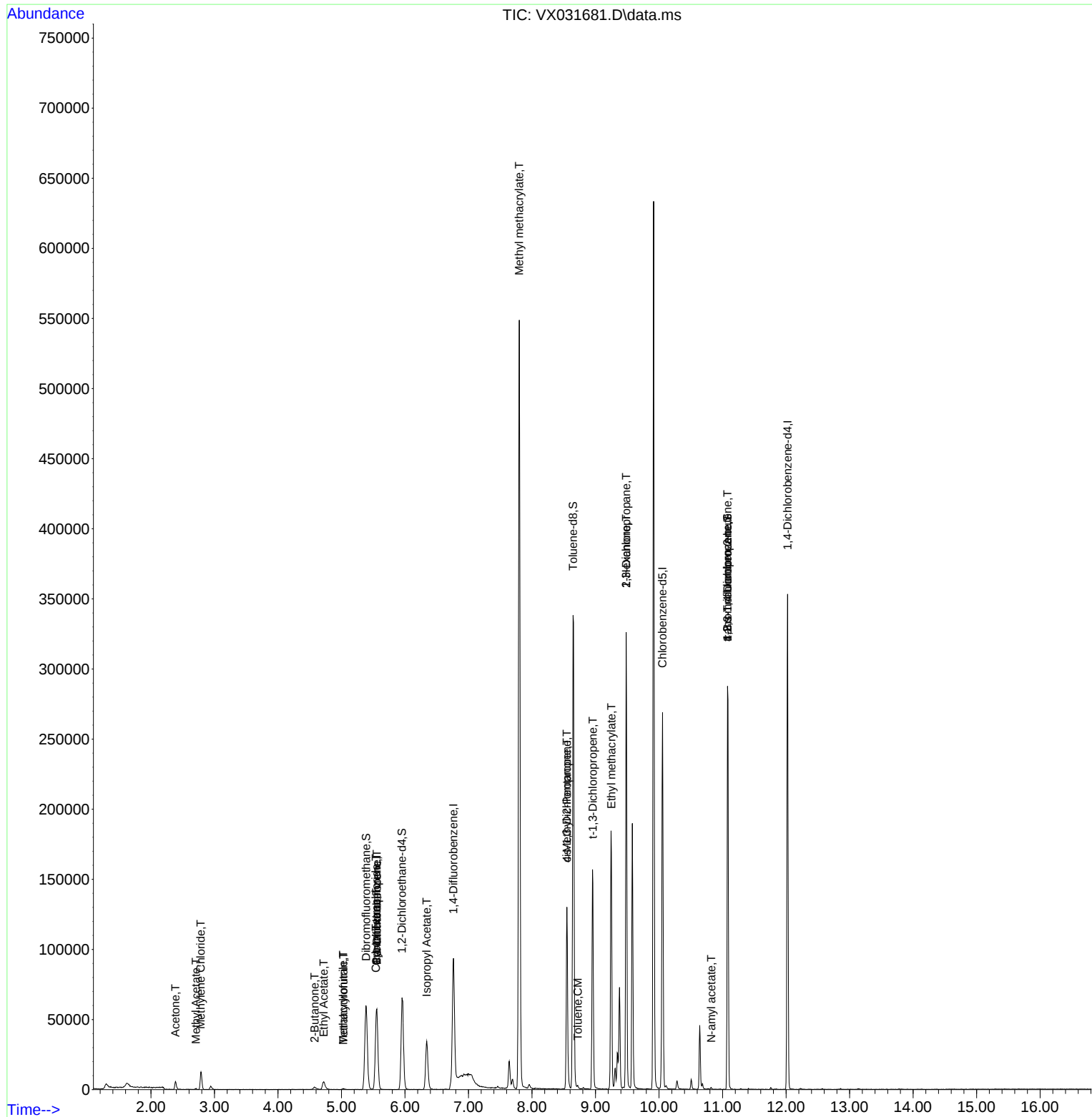
Internal Standards						
1) Pentafluorobenzene	5.556	168	54984	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	89448	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	114622	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	69490	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61301	52.529	ug/l	0.00
Spiked Amount 50.000	Range 74	- 125	Recovery	=	105.060%	
35) Dibromofluoromethane	5.385	113	49445	46.393	ug/l	0.00
Spiked Amount 50.000	Range 75	- 124	Recovery	=	92.780%	
50) Toluene-d8	8.647	98	201039	52.030	ug/l	0.00
Spiked Amount 50.000	Range 86	- 113	Recovery	=	104.060%	
62) 4-Bromofluorobenzene	11.079	95	71756	50.668	ug/l	0.00
Spiked Amount 50.000	Range 83	- 123	Recovery	=	101.340%	
Target Compounds						
						Qvalue
3) Chloromethane	1.294	50	101	Below Cal	#	41
5) Bromomethane	1.611	94	549	Below Cal		93
6) Chloroethane	1.691	64	191	Below Cal	#	43
11) Tert butyl alcohol	2.941	59	1493	Below Cal	#	73
16) Acetone	2.386	43	6445	5.240	ug/l	99
17) Carbon Disulfide	2.508	76	112	Below Cal	#	75
18) Methyl Acetate	2.709	43	813	0.775	ug/l	94
20) Methylene Chloride	2.782	84	5818	6.408	ug/l	82
25) 2-Butanone	4.574	43	2137	3.836	ug/l #	86
29) Tetrahydrofuran	5.032	42	591	1.689	ug/l #	58
31) Cyclohexane	5.550	56	1270	1.145	ug/l #	43
36) 1,1-Dichloropropene	5.556	75	4347	3.552	ug/l #	50
37) Ethyl Acetate	4.721	43	10373	8.402	ug/l	98
38) Carbon Tetrachloride	5.544	117	5584	4.048	ug/l #	15
41) Methacrylonitrile	5.026	41	174	0.277	ug/l #	48
43) Isopropyl Acetate	6.342	43	45968	23.657	ug/l	98
48) Methyl methacrylate	7.799	41	47496	55.580	ug/l #	45
51) 4-Methyl-2-Pentanone	8.549	43	42612	34.646	ug/l #	50
52) Toluene	8.720	92	655	0.261	ug/l	100
53) t-1,3-Dichloropropene	8.958	75	445	2.165	ug/l #	44
54) cis-1,3-Dichloropropene	8.549	75	20142	14.659	ug/l #	63
56) Ethyl methacrylate	9.250	69	437	0.317	ug/l #	1
57) 1,3-Dichloropropane	9.482	76	2872	1.681	ug/l #	43
59) 2-Hexanone	9.482	43	33662	36.682	ug/l #	55
74) N-amyl acetate	10.823	43	647	0.444	ug/l #	43
76) 1,2,3-Trichloropropane	11.079	75	39809	31.600	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	39809	103.994	ug/l #	11

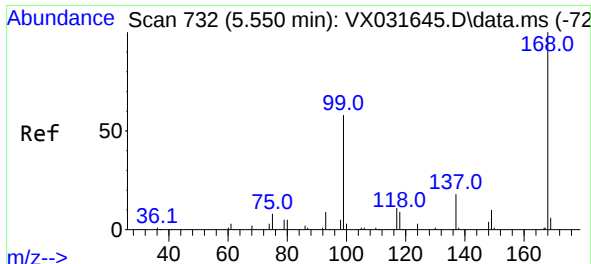
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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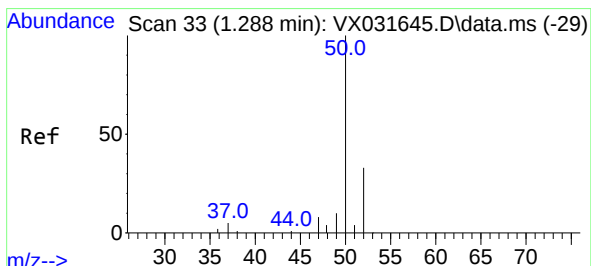
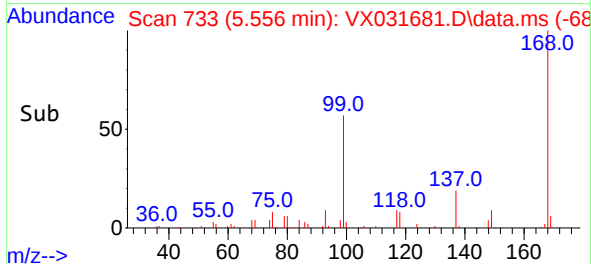
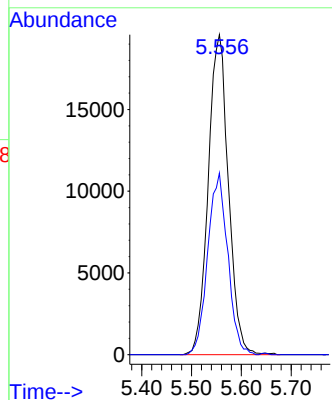
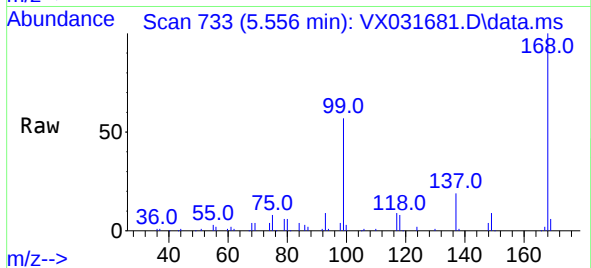




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

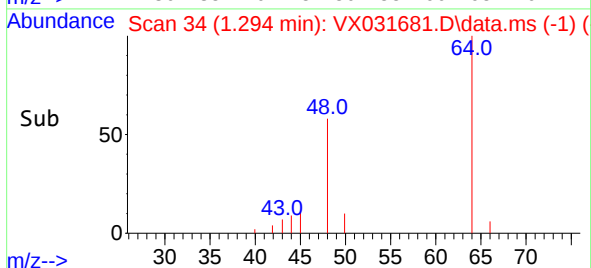
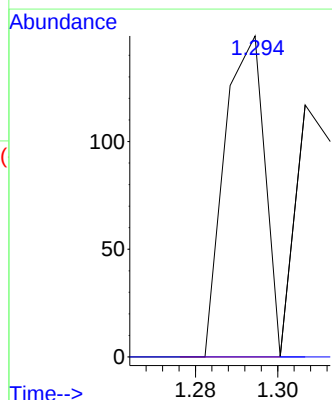
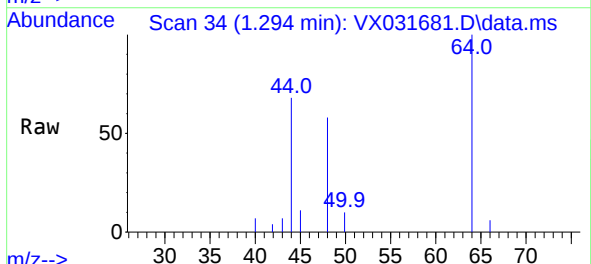
Instrument :
MSVOA_X
ClientSampleId :
R2

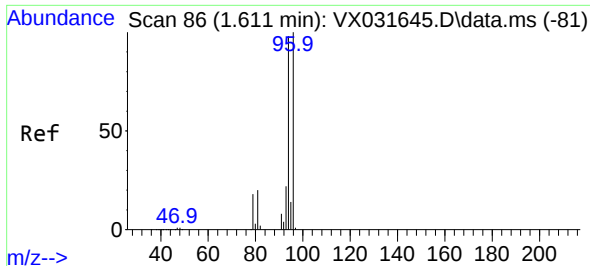
Tgt Ion:168 Resp: 54984
Ion Ratio Lower Upper
168 100
99 56.7 48.8 73.2



#3
Chloromethane
Concen: Below Cal
RT: 1.294 min Scan# 34
Delta R.T. 0.006 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

Tgt Ion: 50 Resp: 101
Ion Ratio Lower Upper
50 100
52 0.0 26.9 40.3#

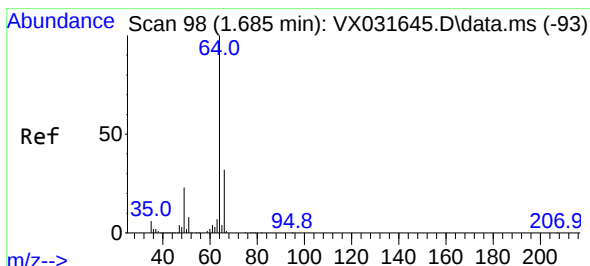
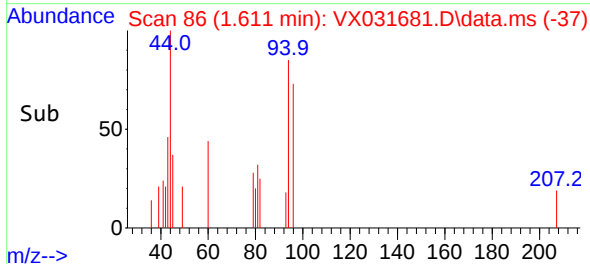
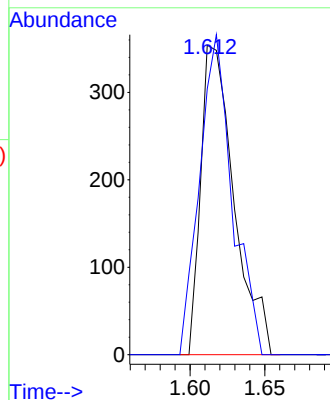
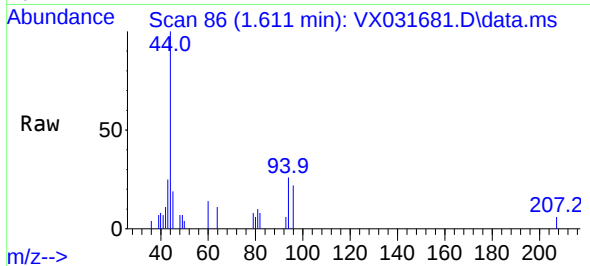




#5
Bromomethane
Concen: Below Cal
RT: 1.611 min Scan# 80
Delta R.T. 0.000 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

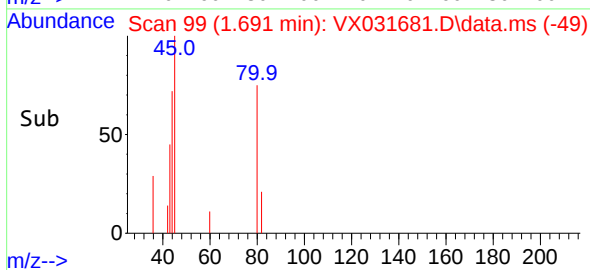
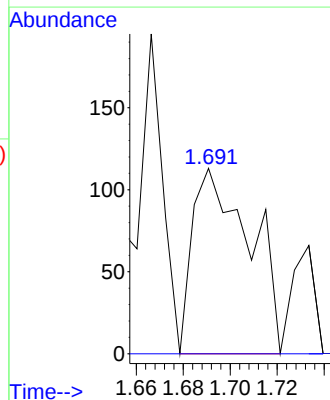
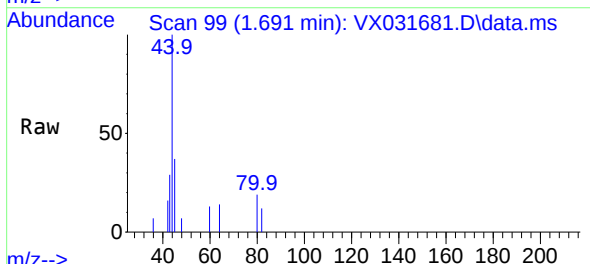
Instrument :
MSVOA_X
ClientSampleId :
R2

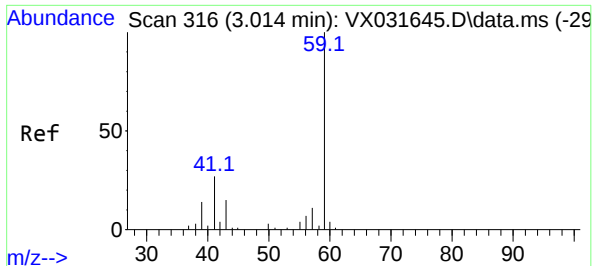
Tgt Ion: 94 Resp: 549
Ion Ratio Lower Upper
94 100
96 85.9 74.4 111.6



#6
Chloroethane
Concen: Below Cal
RT: 1.691 min Scan# 99
Delta R.T. 0.006 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

Tgt Ion: 64 Resp: 191
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.941 min Scan# 304

Delta R.T. -0.048 min

Lab File: VX031681.D

Acq: 27 Sep 2022 04:40

Instrument :

MSVOA_X

ClientSampleId :

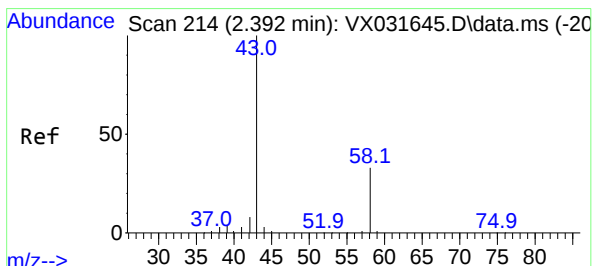
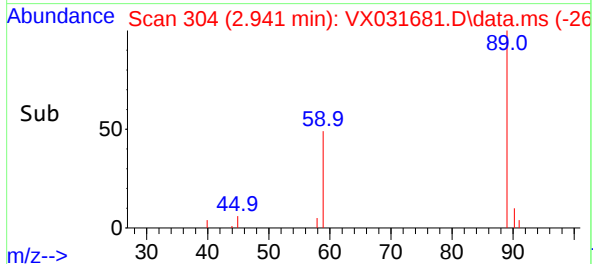
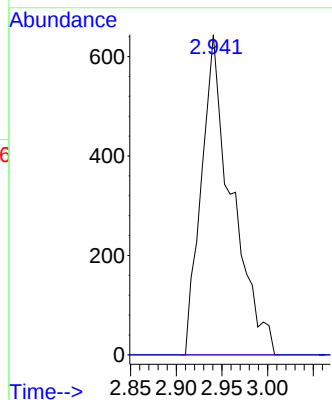
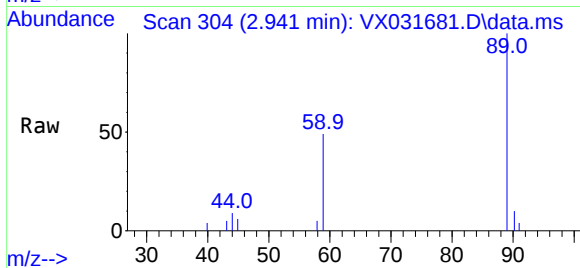
R2

Tgt Ion: 59 Resp: 1493

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#16

Acetone

Concen: 5.240 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX031681.D

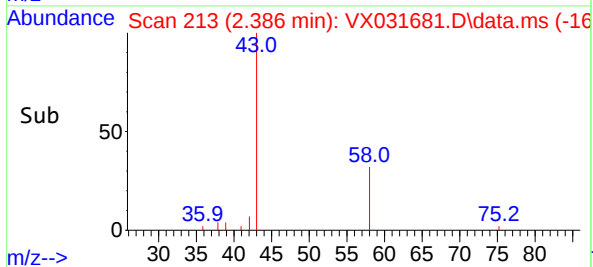
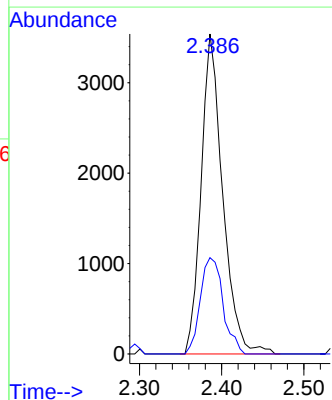
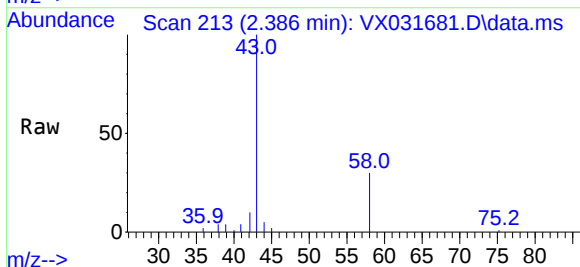
Acq: 27 Sep 2022 04:40

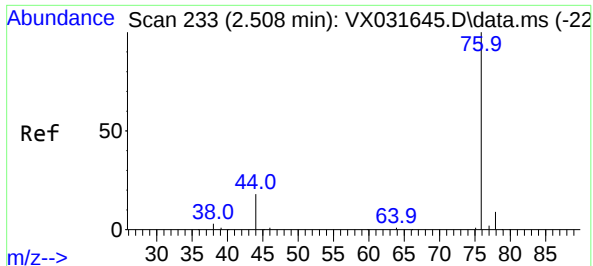
Tgt Ion: 43 Resp: 6445

Ion Ratio Lower Upper

43 100

58 30.1 23.8 35.8

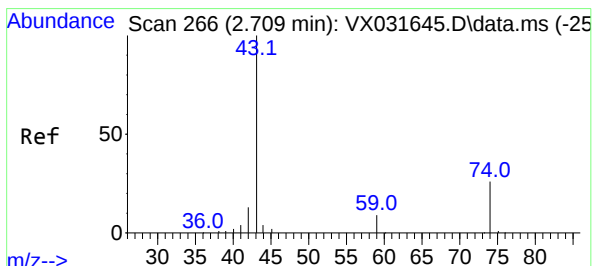
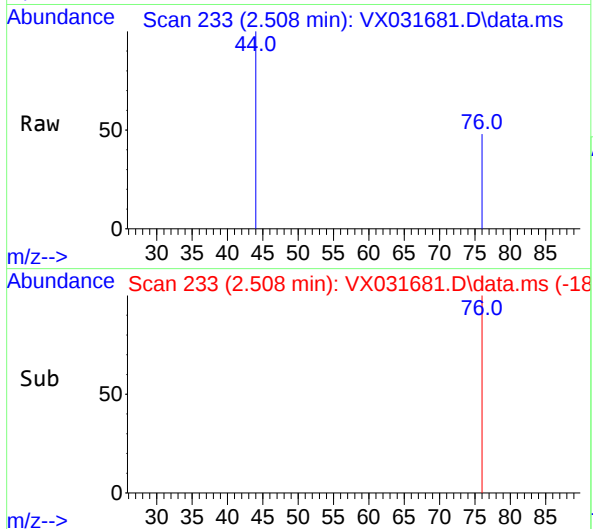
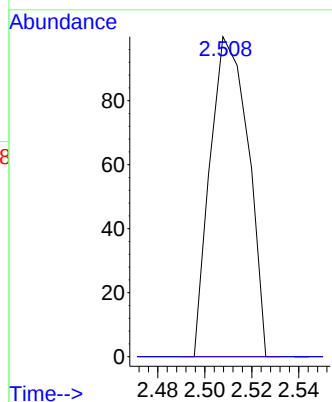




#17
Carbon Disulfide
Concen: Below Cal
RT: 2.508 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

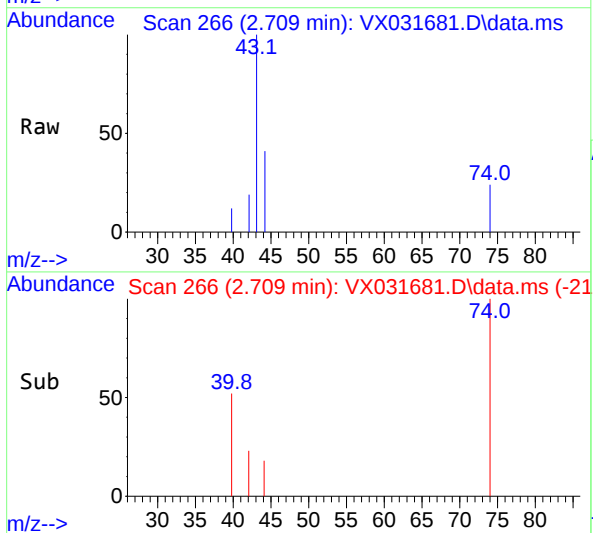
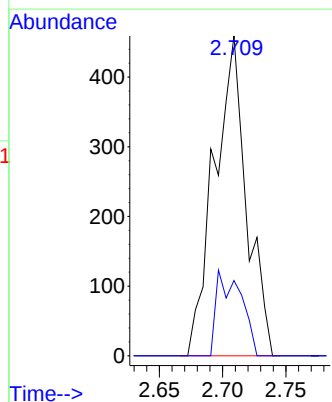
Instrument :
MSVOA_X
ClientSampleId :
R2

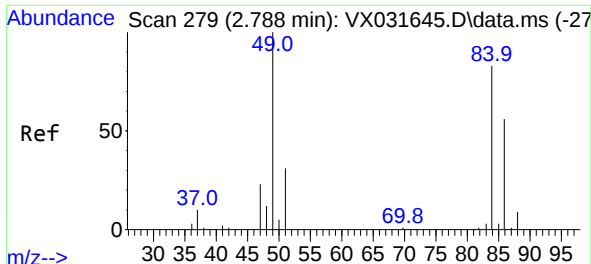
Tgt Ion: 76 Resp: 112
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: 0.775 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

Tgt Ion: 43 Resp: 813
Ion Ratio Lower Upper
43 100
74 20.3 18.6 27.8



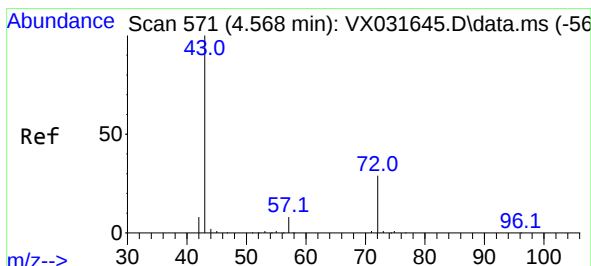
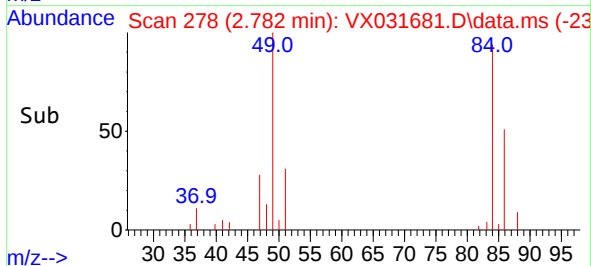
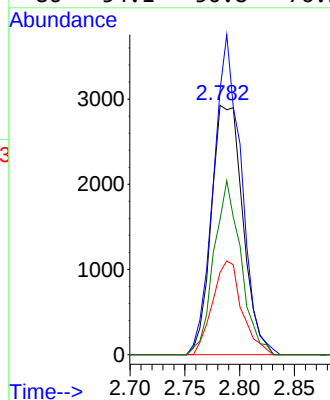
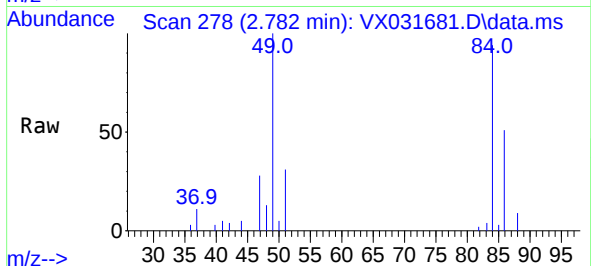


#20
Methylene Chloride
Concen: 6.408 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

Instrument :
MSVOA_X
ClientSampleId :
R2

Tgt Ion: 84 Resp: 5818

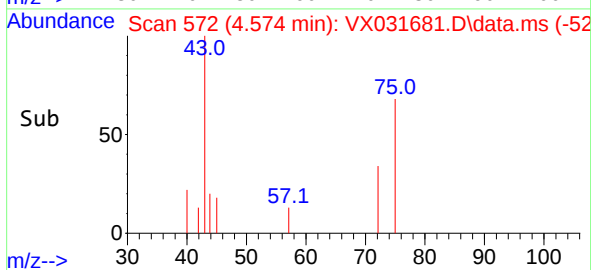
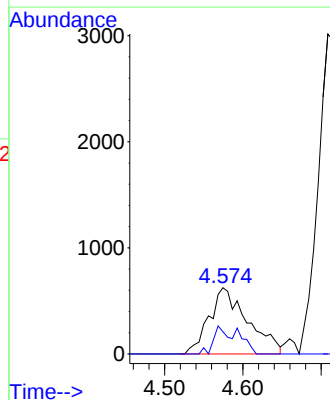
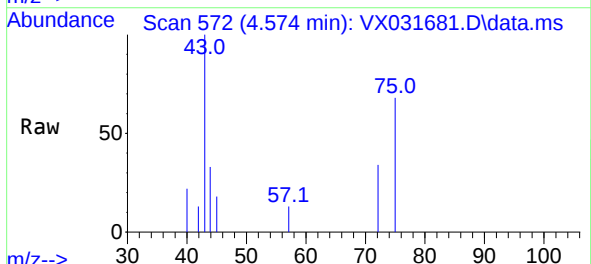
Ion	Ratio	Lower	Upper
84	100		
49	106.0	105.9	158.9
51	33.0	32.2	48.2
86	54.1	50.8	76.2

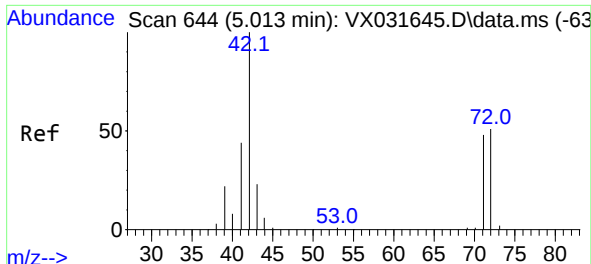


#25
2-Butanone
Concen: 3.836 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.012 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

Tgt Ion: 43 Resp: 2137

Ion	Ratio	Lower	Upper
43	100		
72	33.6	21.1	31.7#





#29

Tetrahydrofuran

Concen: 1.689 ug/l

RT: 5.032 min Scan# 64

Delta R.T. 0.019 min

Lab File: VX031681.D

Acq: 27 Sep 2022 04:40

Instrument :

MSVOA_X

ClientSampleId :

R2

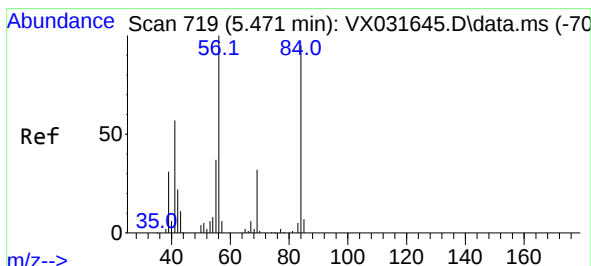
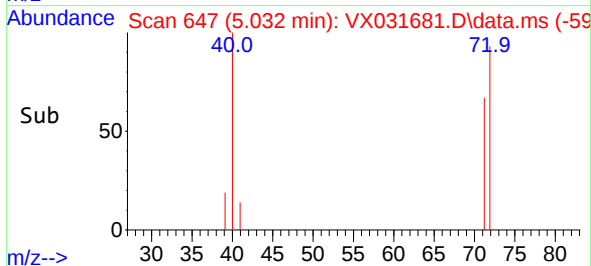
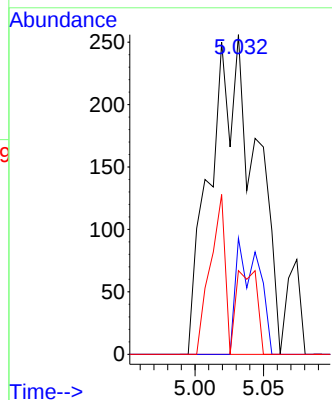
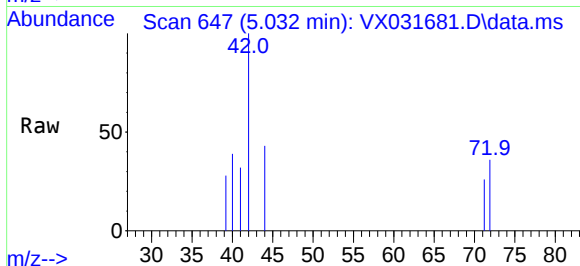
Tgt Ion: 42 Resp: 591

Ion Ratio Lower Upper

42 100

72 17.6 36.4 54.6#

71 16.2 33.5 50.3#



#31

Cyclohexane

Concen: 1.145 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX031681.D

Acq: 27 Sep 2022 04:40

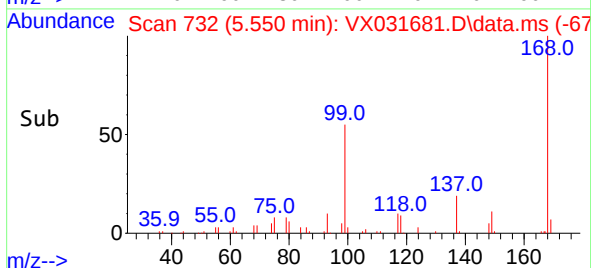
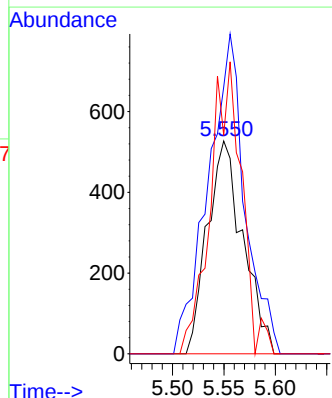
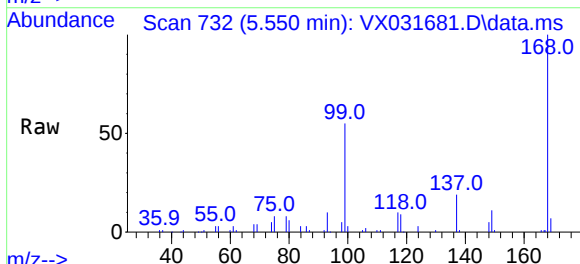
Tgt Ion: 56 Resp: 1270

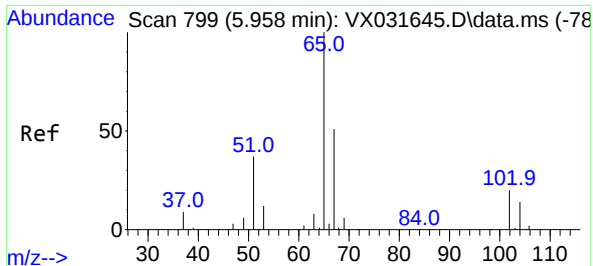
Ion Ratio Lower Upper

56 100

69 125.4 25.1 37.7#

84 102.7 70.2 105.4

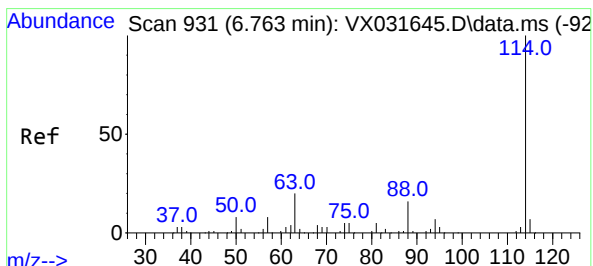
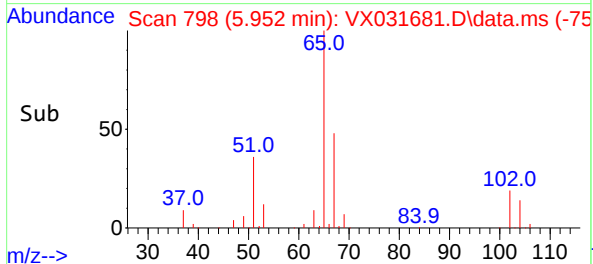
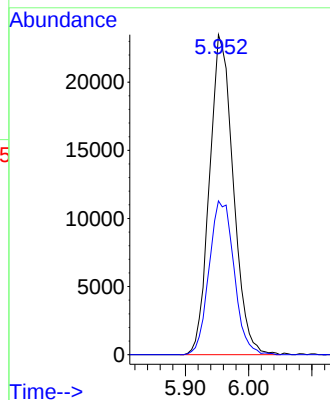
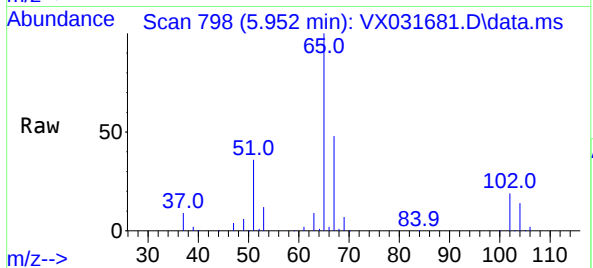




#33
1,2-Dichloroethane-d4
Concen: 52.529 ug/l
RT: 5.952 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

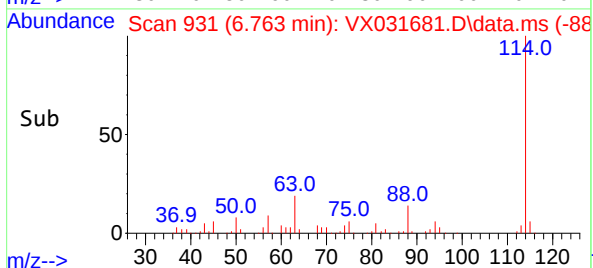
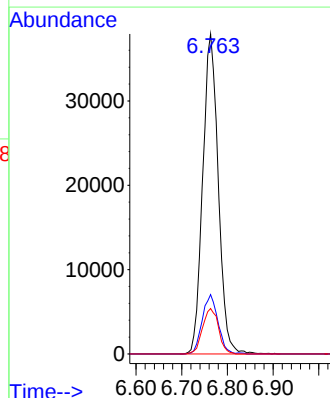
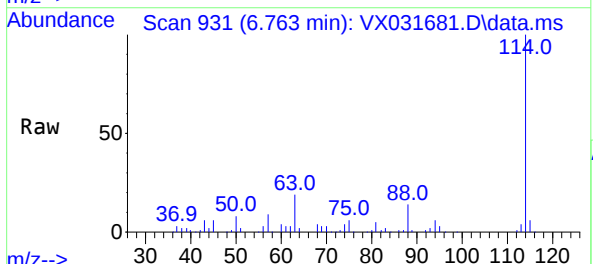
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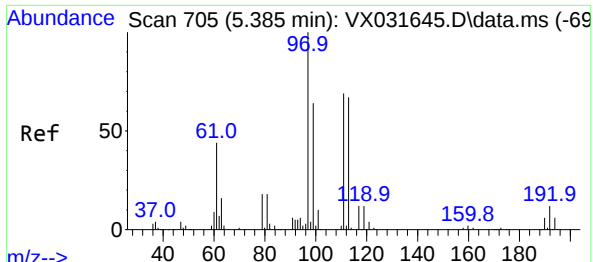
Tgt Ion: 65 Resp: 61301
Ion Ratio Lower Upper
65 100
67 50.5 0.0 102.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

Tgt Ion: 114 Resp: 89448
Ion Ratio Lower Upper
114 100
63 18.5 0.0 42.6
88 14.2 0.0 33.0





#35

Dibromofluoromethane

Concen: 46.393 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX031681.D

Acq: 27 Sep 2022 04:40

Instrument :

MSVOA_X

ClientSampleId :

R2

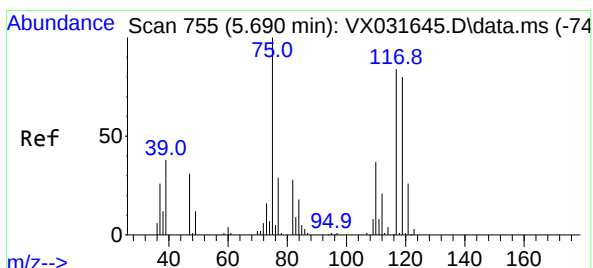
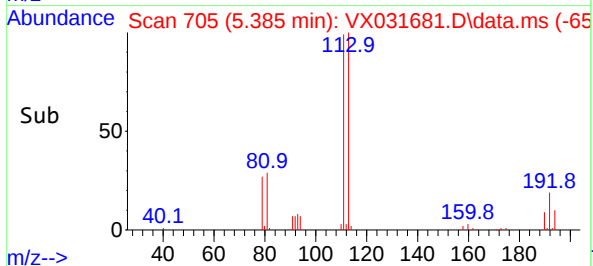
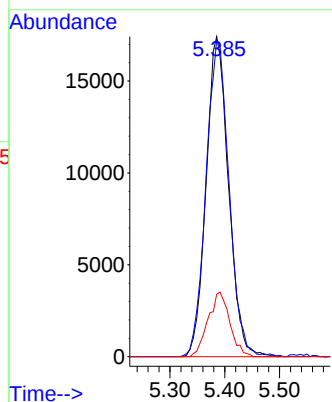
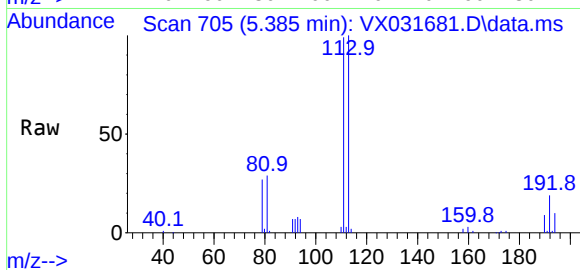
Tgt Ion:113 Resp: 49445

Ion Ratio Lower Upper

113 100

111 101.3 82.4 123.6

192 19.5 14.1 21.1



#36

1,1-Dichloropropene

Concen: 3.552 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.134 min

Lab File: VX031681.D

Acq: 27 Sep 2022 04:40

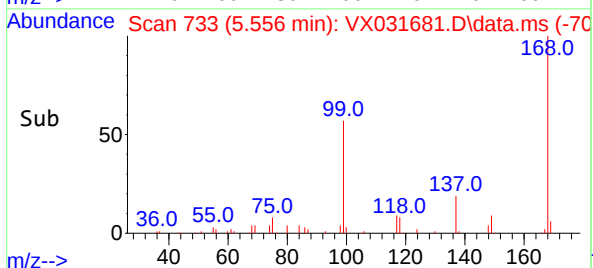
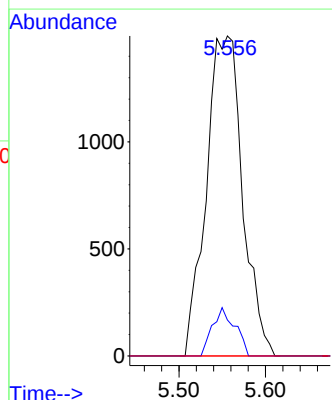
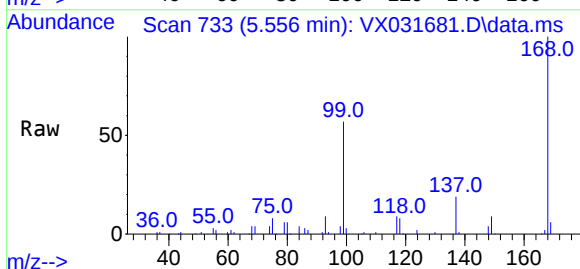
Tgt Ion: 75 Resp: 4347

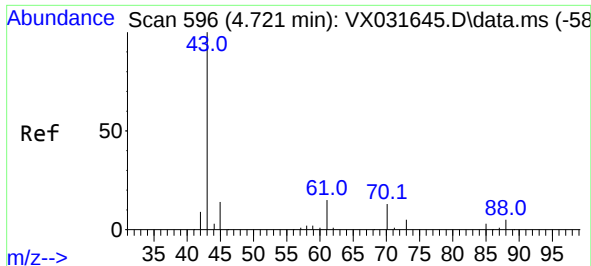
Ion Ratio Lower Upper

75 100

110 9.4 17.5 52.5#

77 0.0 24.9 37.3#

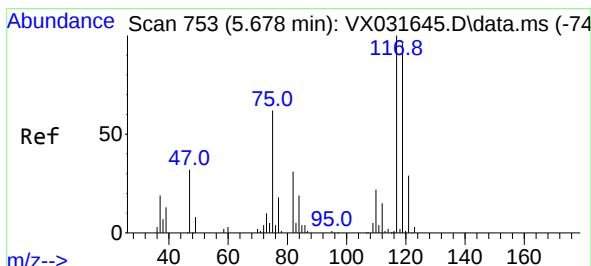
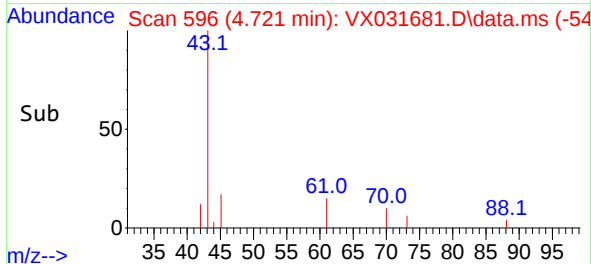
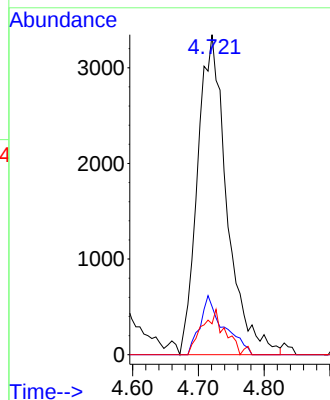
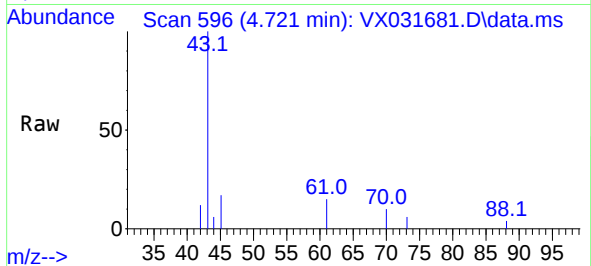




#37
Ethyl Acetate
Concen: 8.402 ug/l
RT: 4.721 min Scan# 596
Delta R.T. -0.000 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

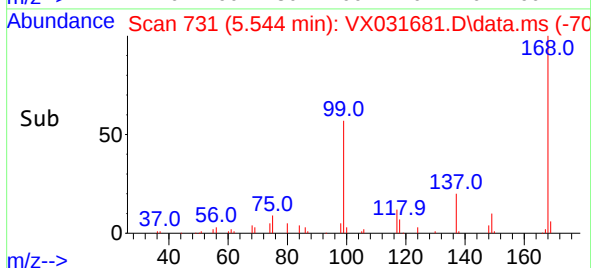
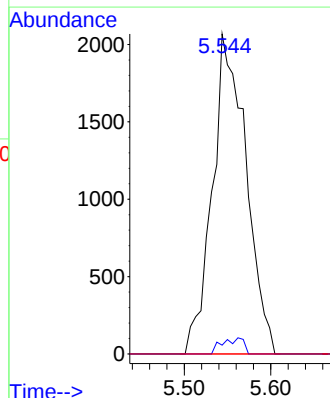
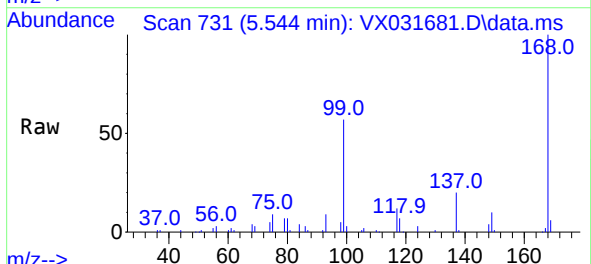
Instrument :
MSVOA_X
ClientSampleId :
R2

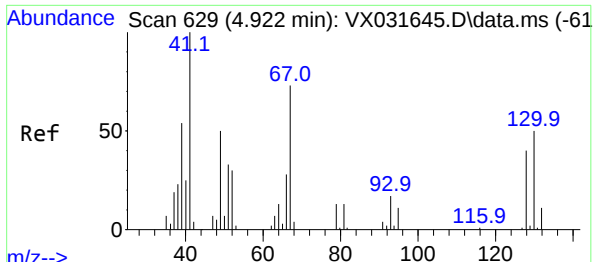
Tgt Ion:	43	Resp:	10373
Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.1	16.7
70	11.0	8.6	13.0



#38
Carbon Tetrachloride
Concen: 4.048 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.134 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

Tgt Ion:	117	Resp:	5584
Ion	Ratio	Lower	Upper
117	100		
119	2.8	74.6	112.0#
121	0.0	25.3	37.9#

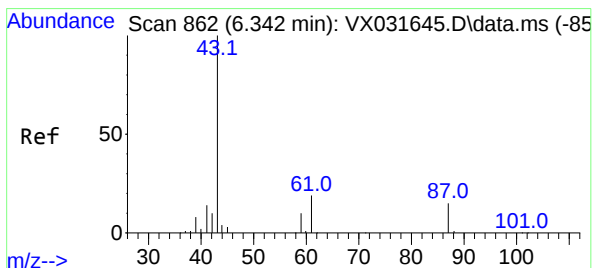
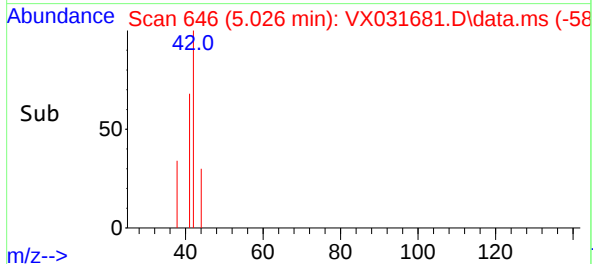
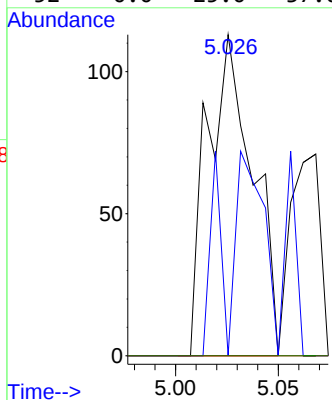
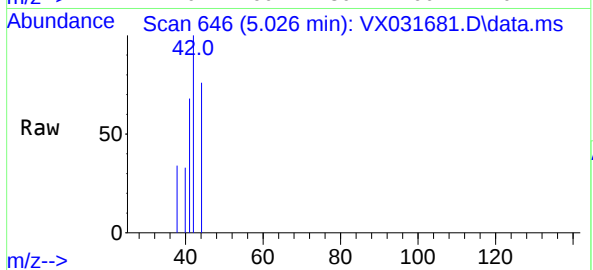




#41
Methacrylonitrile
Concen: 0.277 ug/l
RT: 5.026 min Scan# 641
Delta R.T. 0.098 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

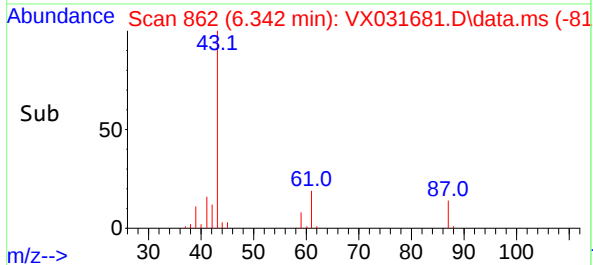
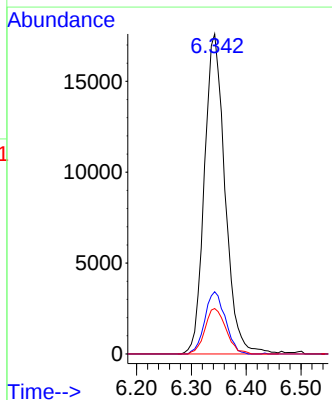
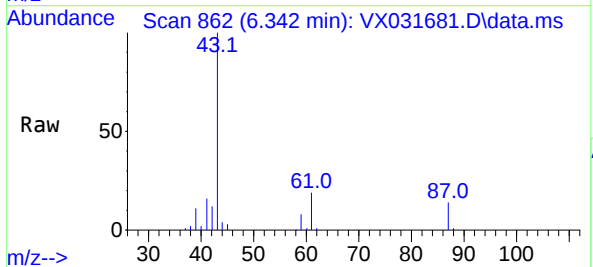
Instrument :
MSVOA_X
ClientSampleId :
R2

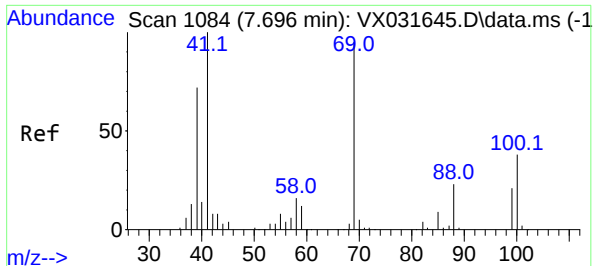
Tgt Ion: 41	Resp:	174
Ion	Ratio	Lower Upper
41	100	
39	54.0	45.0 67.6
67	0.0	58.2 87.4#
52	0.0	25.0 37.6#



#43
Isopropyl Acetate
Concen: 23.657 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

Tgt Ion: 43	Resp:	45968
Ion	Ratio	Lower Upper
43	100	
61	19.3	15.3 22.9
87	14.5	10.6 15.8

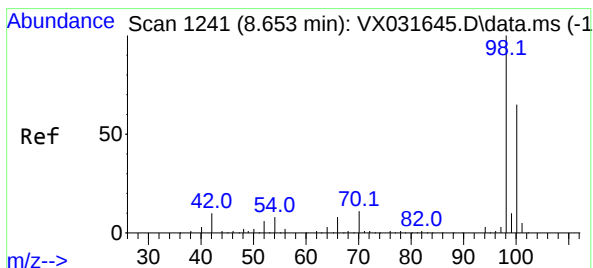
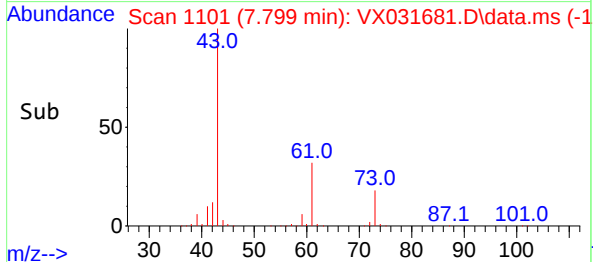
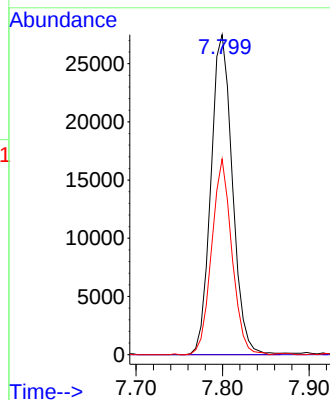
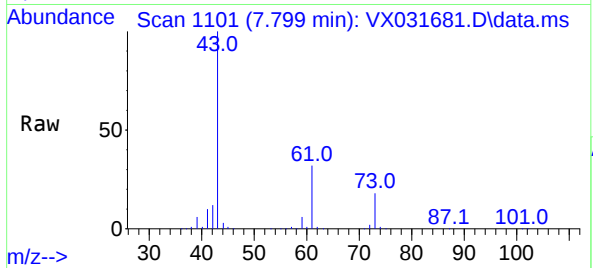




#48
Methyl methacrylate
Concen: 55.580 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.103 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

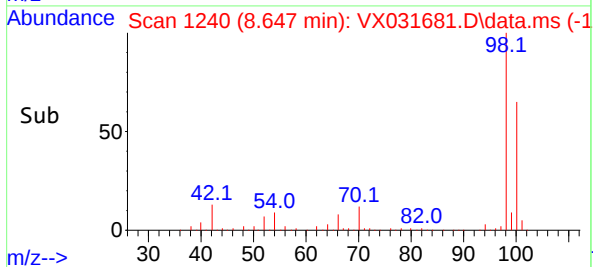
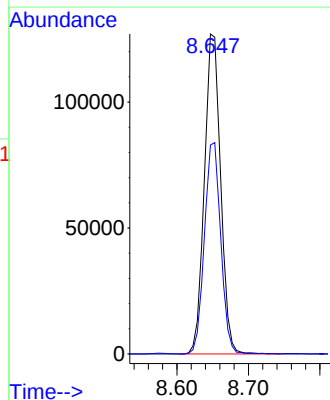
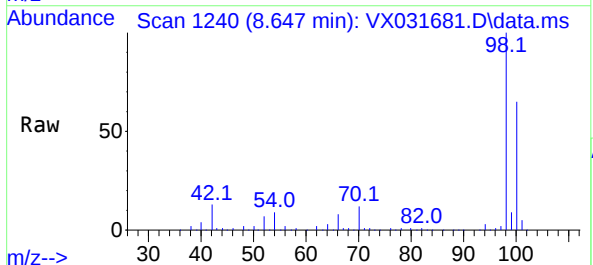
Instrument :
MSVOA_X
ClientSampleId :
R2

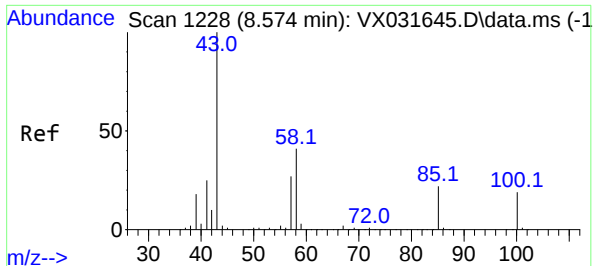
Tgt Ion: 41 Resp: 47496
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 57.4 51.4 77.0



#50
Toluene-d8
Concen: 52.030 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

Tgt Ion: 98 Resp: 201039
Ion Ratio Lower Upper
98 100
100 66.2 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 34.646 ug/l

RT: 8.549 min Scan# 11

Delta R.T. -0.031 min

Lab File: VX031681.D

Acq: 27 Sep 2022 04:40

Instrument :

MSVOA_X

ClientSampleId :

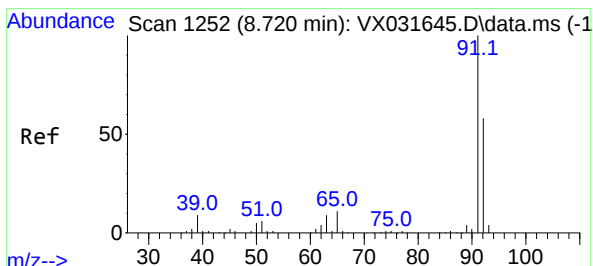
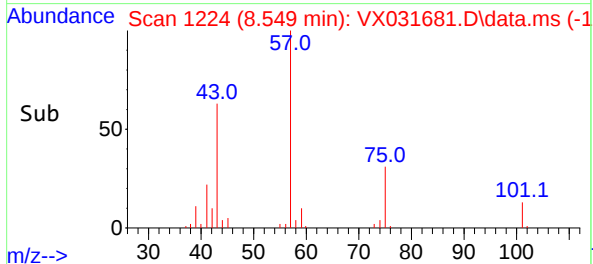
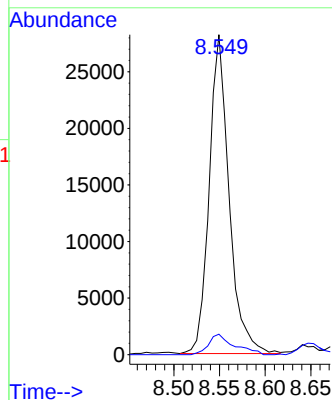
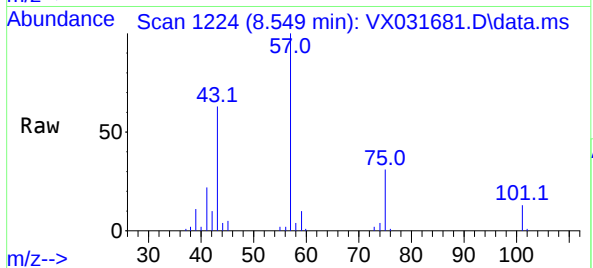
R2

Tgt Ion: 43 Resp: 42612

Ion Ratio Lower Upper

43 100

58 8.2 30.6 46.0#



#52

Toluene

Concen: 0.261 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. -0.000 min

Lab File: VX031681.D

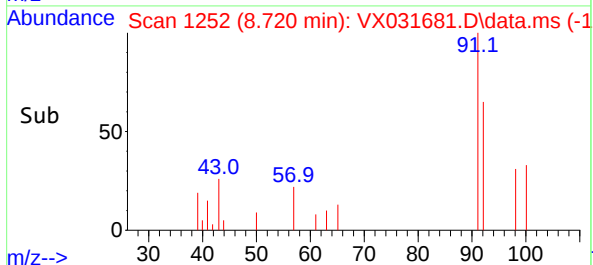
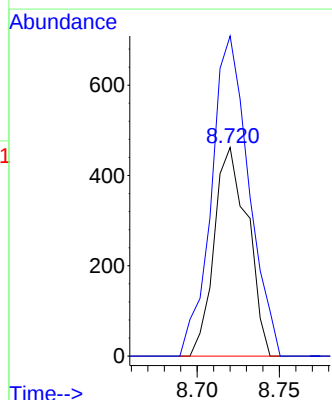
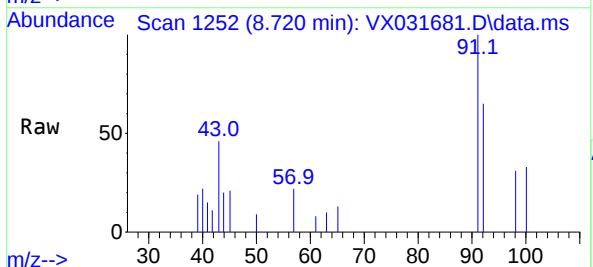
Acq: 27 Sep 2022 04:40

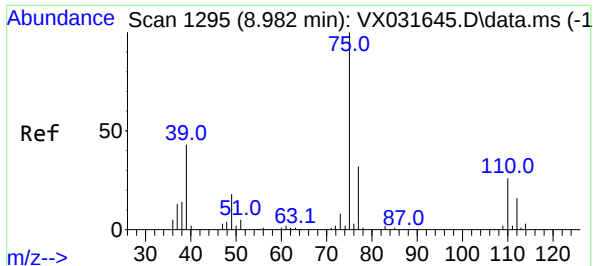
Tgt Ion: 92 Resp: 655

Ion Ratio Lower Upper

92 100

91 171.5 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 2.165 ug/l

RT: 8.958 min Scan# 11

Delta R.T. -0.024 min

Lab File: VX031681.D

Acq: 27 Sep 2022 04:40

Instrument :

MSVOA_X

ClientSampleId :

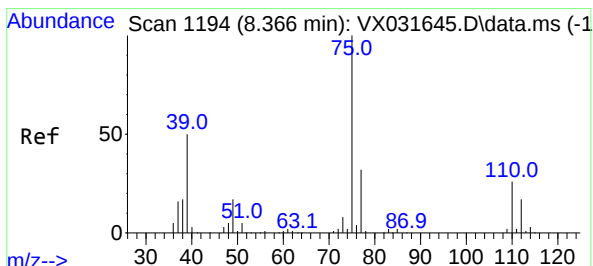
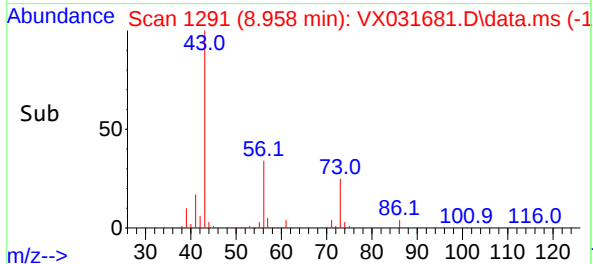
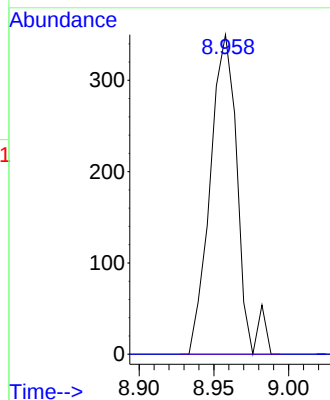
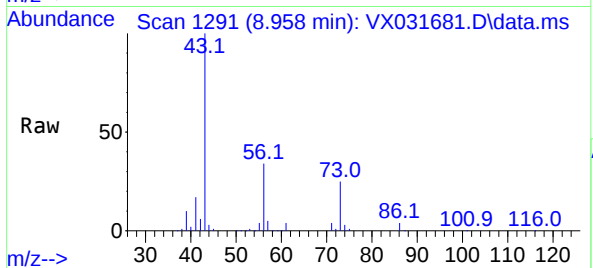
R2

Tgt Ion: 75 Resp: 445

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#



#54

cis-1,3-Dichloropropene

Concen: 14.659 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX031681.D

Acq: 27 Sep 2022 04:40

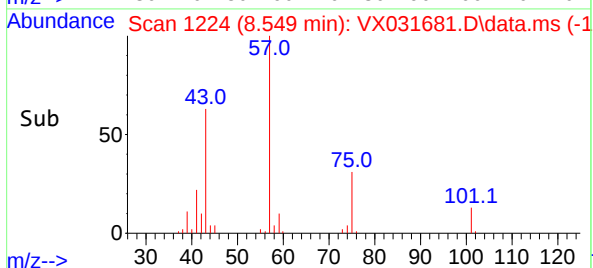
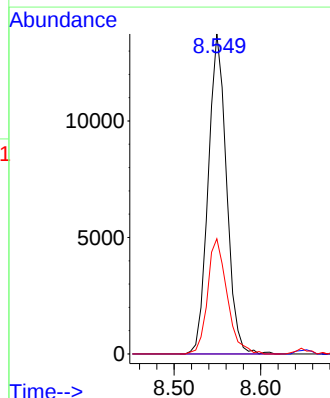
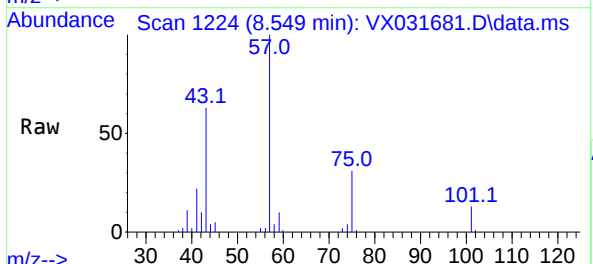
Tgt Ion: 75 Resp: 20142

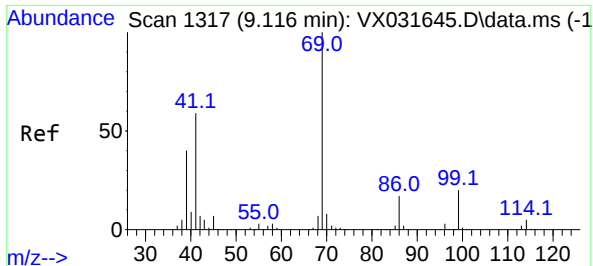
Ion Ratio Lower Upper

75 100

77 0.0 24.4 36.6#

39 36.0 43.7 65.5#





#56

Ethyl methacrylate

Concen: 0.317 ug/l

RT: 9.250 min Scan# 1

Delta R.T. 0.134 min

Lab File: VX031681.D

Acq: 27 Sep 2022 04:40

Instrument :

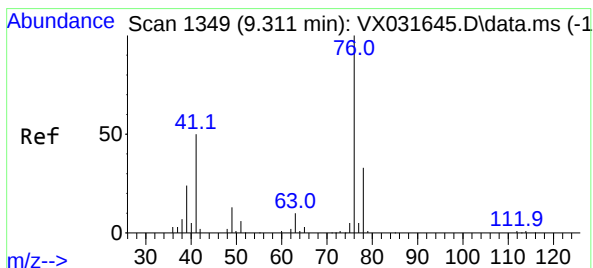
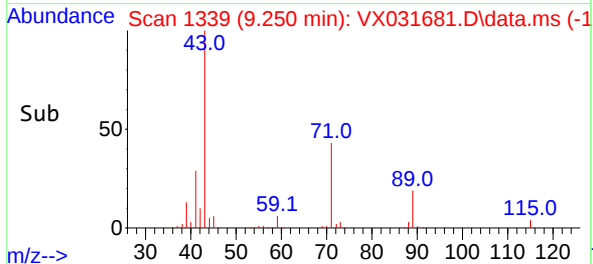
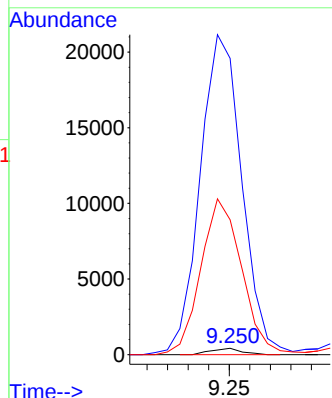
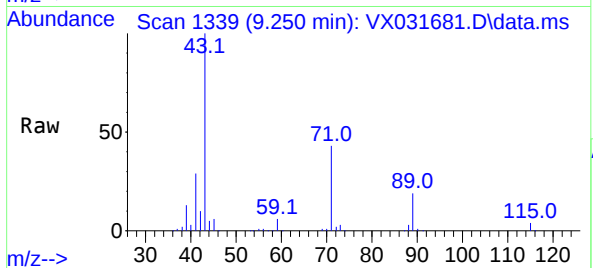
MSVOA_X

ClientSampleId :

R2

Tgt Ion: 69 Resp: 437

Ion	Ratio	Lower	Upper
69	100		
41	6839.8	54.2	81.4#
39	3269.3	34.2	51.2#



#57

1,3-Dichloropropane

Concen: 1.681 ug/l

RT: 9.482 min Scan# 1377

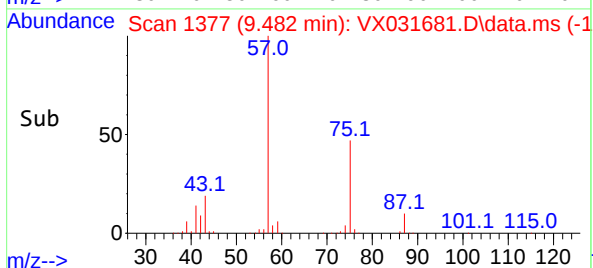
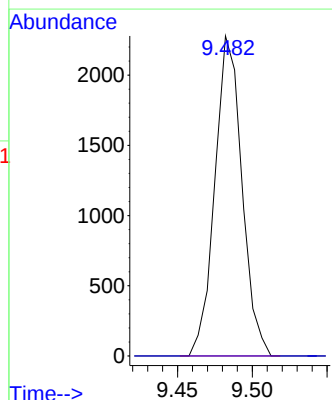
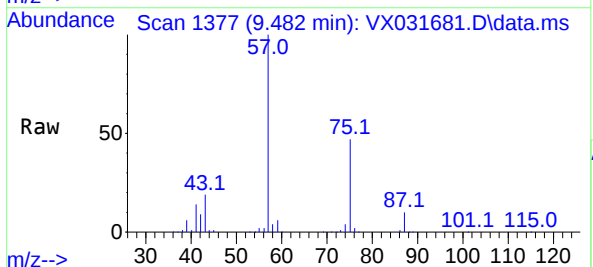
Delta R.T. 0.171 min

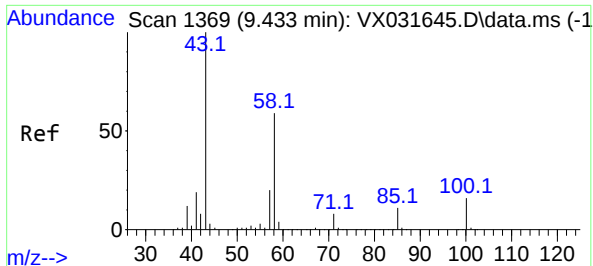
Lab File: VX031681.D

Acq: 27 Sep 2022 04:40

Tgt Ion: 76 Resp: 2872

Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.5	38.3#





#59

2-Hexanone

Concen: 36.682 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.049 min

Lab File: VX031681.D

Acq: 27 Sep 2022 04:40

Instrument :

MSVOA_X

ClientSampleId :

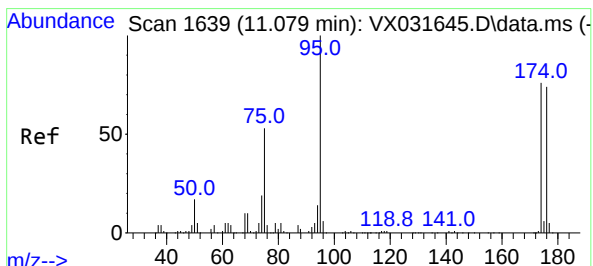
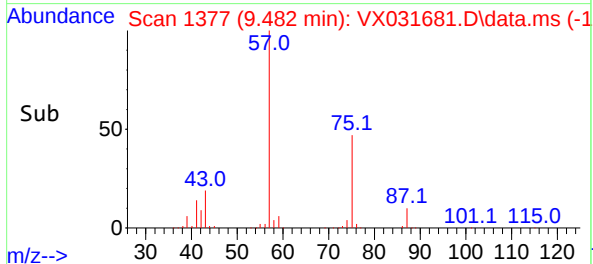
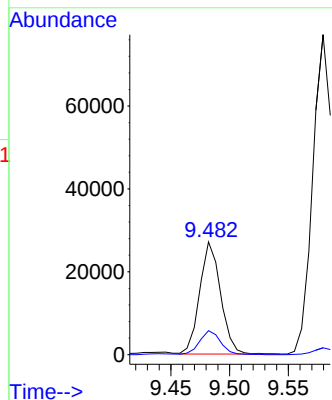
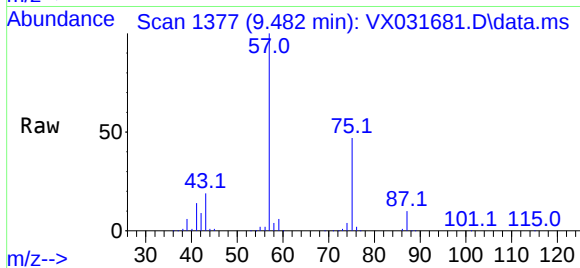
R2

Tgt Ion: 43 Resp: 33662

Ion Ratio Lower Upper

43 100

58 21.4 26.7 80.0#



#62

4-Bromofluorobenzene

Concen: 50.668 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX031681.D

Acq: 27 Sep 2022 04:40

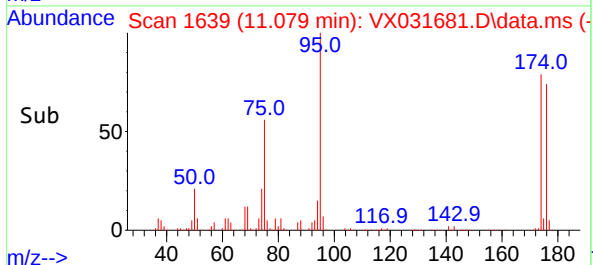
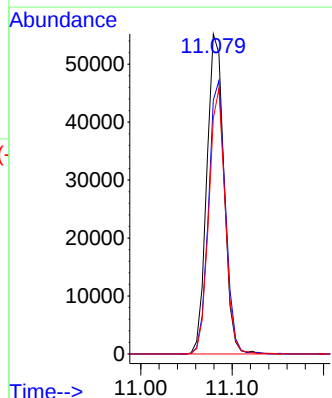
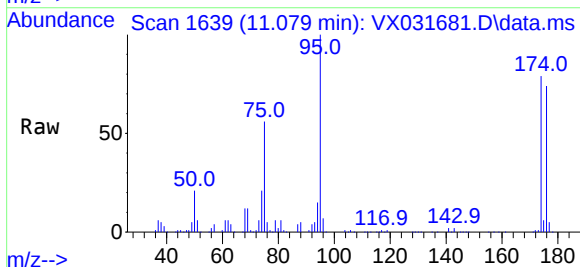
Tgt Ion: 95 Resp: 71756

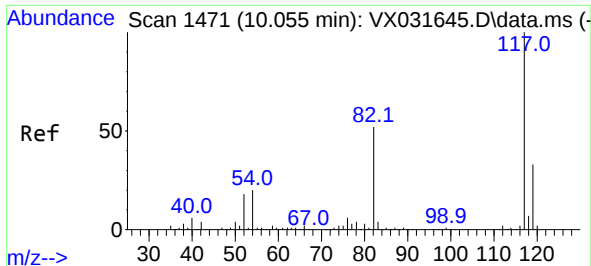
Ion Ratio Lower Upper

95 100

174 84.3 0.0 153.2

176 79.2 0.0 144.0

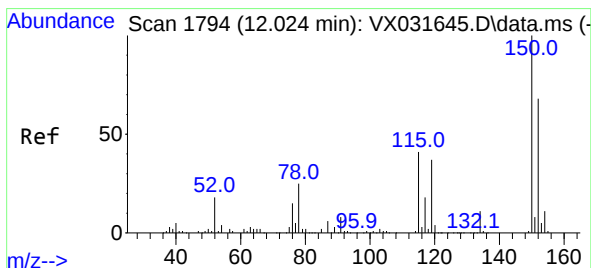
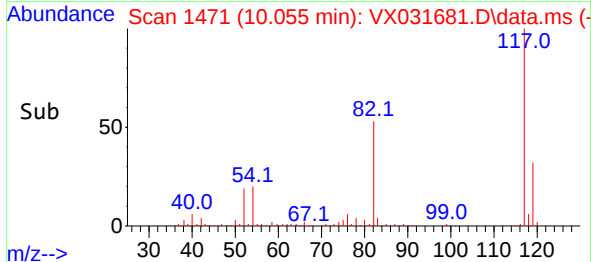
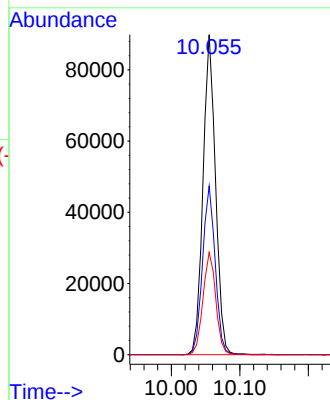
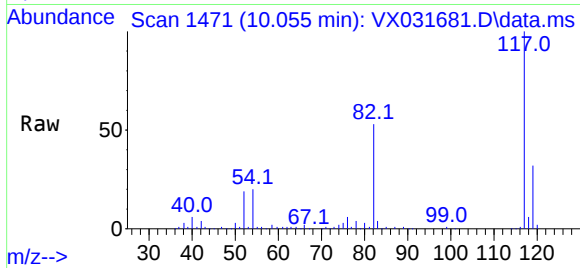




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

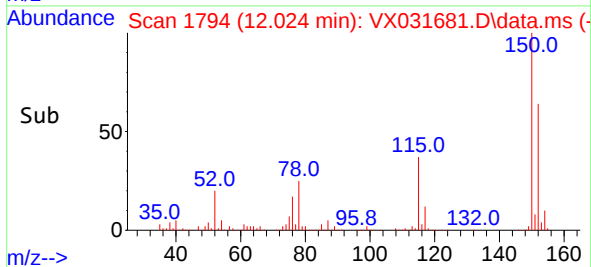
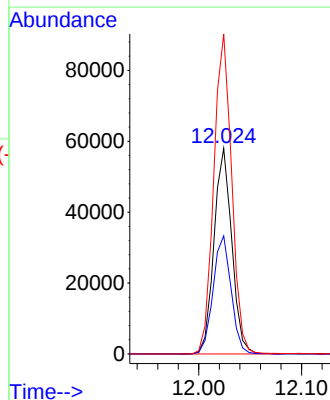
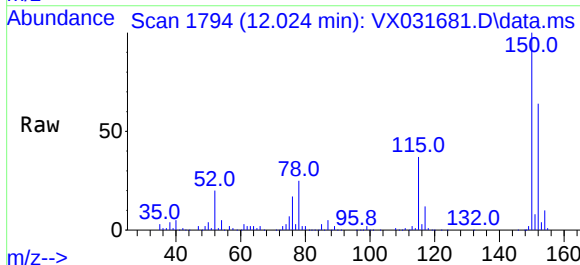
Instrument :
MSVOA_X
ClientSampleId :
R2

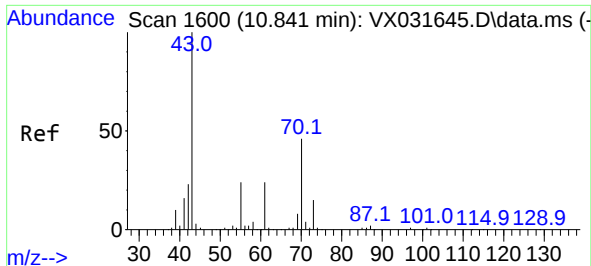
Tgt Ion:117 Resp: 114622
Ion Ratio Lower Upper
117 100
82 52.7 46.8 70.2
119 32.0 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

Tgt Ion:152 Resp: 69490
Ion Ratio Lower Upper
152 100
115 58.1 43.4 130.1
150 157.0 0.0 346.8

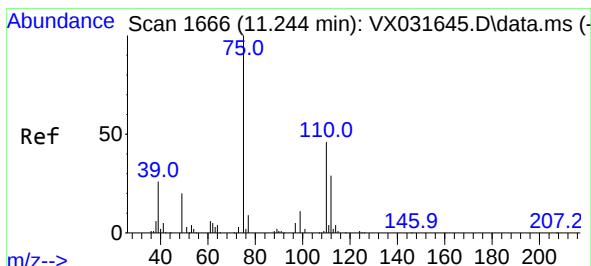
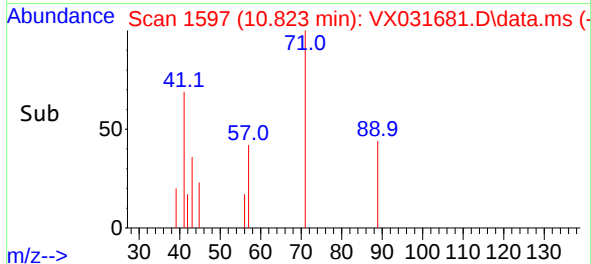
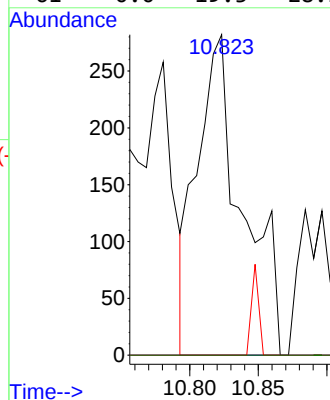
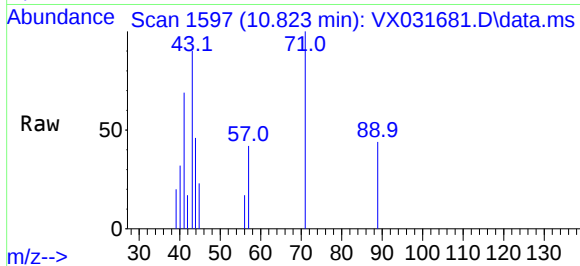




#74
N-amy1 acetate
Concen: 0.444 ug/l
RT: 10.823 min Scan# 11
Delta R.T. -0.019 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

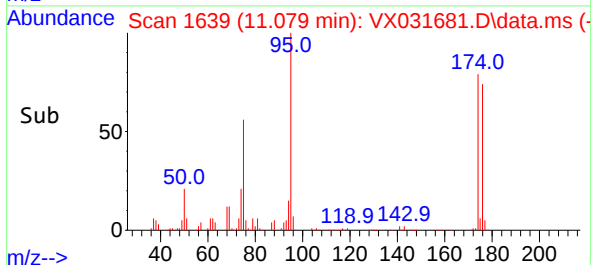
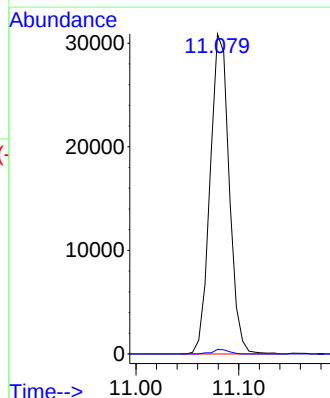
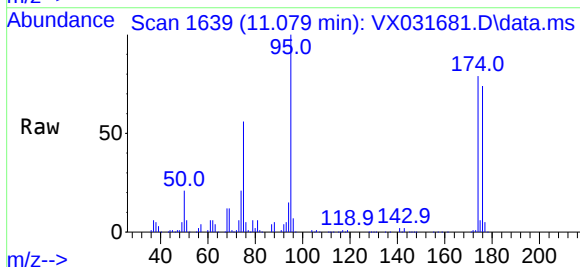
Instrument :
MSVOA_X
ClientSampleId :
R2

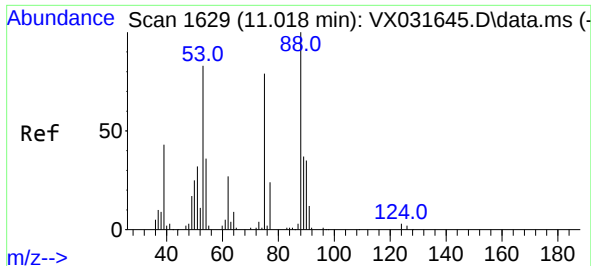
Tgt Ion: 43	Resp: 647
Ion Ratio	Lower Upper
43 100	
70 0.0	33.4 50.2#
55 0.0	18.2 27.2#
61 0.0	19.3 28.9#



#76
1,2,3-Trichloropropane
Concen: 31.600 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX031681.D
Acq: 27 Sep 2022 04:40

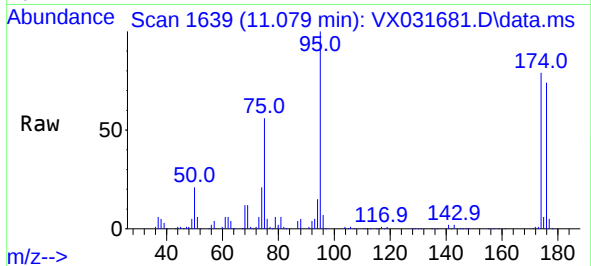
Tgt Ion: 75	Resp:	39809	
Ion Ratio	Lower	Upper	
75 100			
77 1.2	20.3	60.9#	





#81
 trans-1,4-Dichloro-2-butene
 Concen: 103.994 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX031681.D
 Acq: 27 Sep 2022 04:40

Instrument :
 MSVOA_X
 ClientSampleId :
 R2



Tgt Ion: 75 Resp: 39809
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.6 116.4#
 89 0.1 37.4 56.0#

