

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071023\
 Data File : VX036481.D
 Acq On : 10 Jul 2023 14:33
 Operator : JC/MD
 Sample : PB154051ZHE#03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB154051ZHE#03

Quant Time: Jul 11 01:29:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X062323W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 23 15:03:28 2023
 Response via : Initial Calibration

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

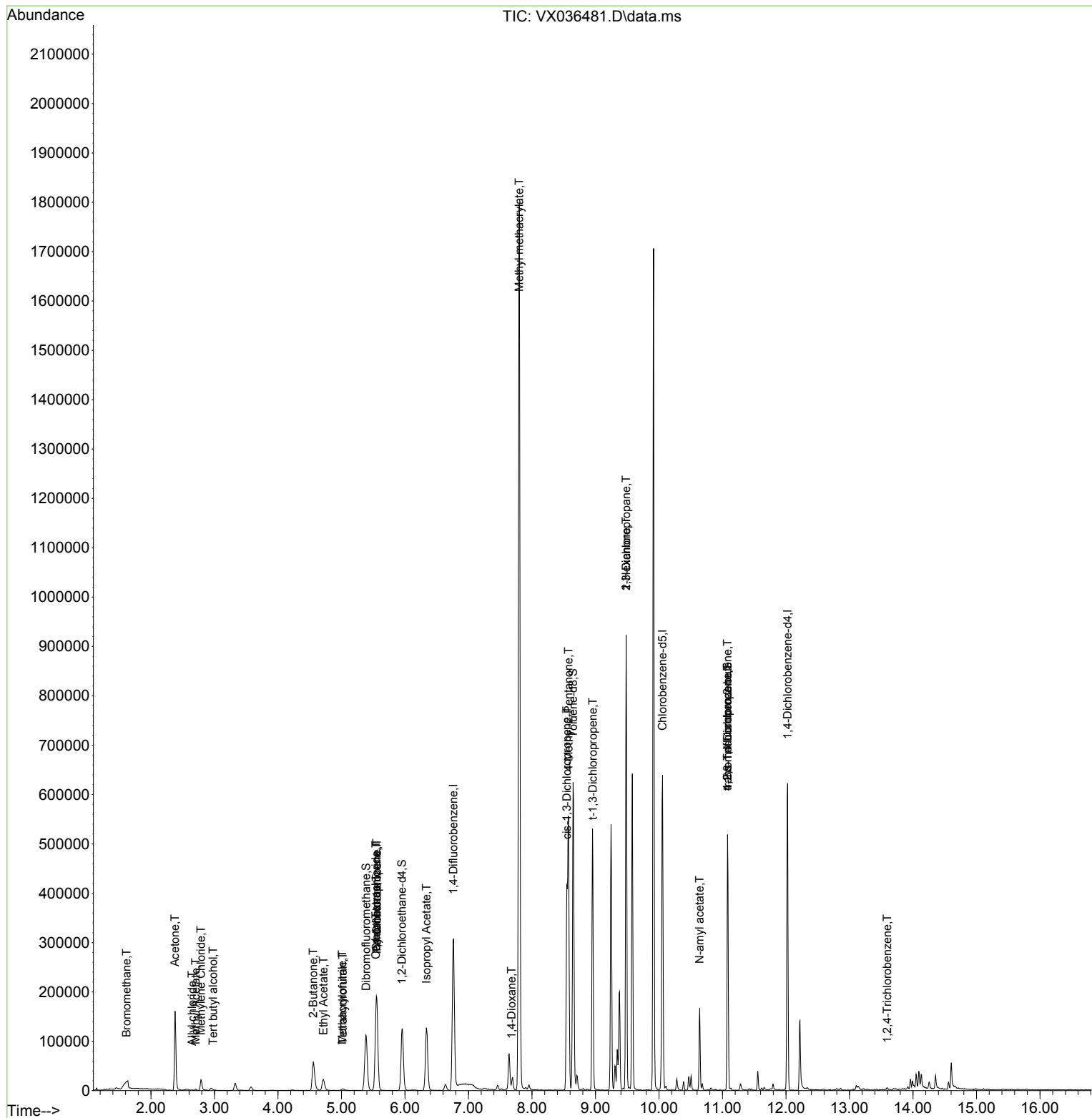
Internal Standards						
1) Pentafluorobenzene	5.556	168	179504	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	309559	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	282943	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	129345	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	120612	46.875	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	93.740%		
35) Dibromofluoromethane	5.385	113	98119	48.071	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.140%		
50) Toluene-d8	8.647	98	379611	49.794	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.580%		
62) 4-Bromofluorobenzene	11.079	95	133393	49.675	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.360%		
Target Compounds						Qvalue
5) Bromomethane	1.618	94	811	0.344	ug/l #	49
11) Tert butyl alcohol	2.977	59	5296	11.307	ug/l #	78
14) Allyl chloride	2.648	41	1222	0.369	ug/l #	44
16) Acetone	2.380	43	169826	154.415	ug/l	90
18) Methyl Acetate	2.703	43	3526	0.780	ug/l #	88
20) Methylene Chloride	2.788	84	11006	4.648	ug/l	98
25) 2-Butanone	4.556	43	99280	62.828	ug/l	98
29) Tetrahydrofuran	5.019	42	3177	3.158	ug/l #	76
31) Cyclohexane	5.550	56	4275	1.297	ug/l #	3
36) 1,1-Dichloropropene	5.556	75	14933	4.908	ug/l #	50
37) Ethyl Acetate	4.715	43	40764	13.145	ug/l	98
38) Carbon Tetrachloride	5.544	117	17775	6.396	ug/l #	15
41) Methacrylonitrile	5.013	41	1634	0.950	ug/l #	50
43) Isopropyl Acetate	6.336	43	176695	35.718	ug/l	97
48) Methyl methacrylate	7.800	41	151375	61.370	ug/l #	49
49) 1,4-Dioxane	7.678	88	112	2.048	ug/l #	1
51) 4-Methyl-2-Pentanone	8.574	43	439542	137.909	ug/l #	86
53) t-1,3-Dichloropropene	8.958	75	1211	0.407	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	61023	18.136	ug/l #	58
57) 1,3-Dichloropropane	9.482	76	7545	1.967	ug/l #	42
59) 2-Hexanone	9.482	43	105270	45.230	ug/l #	53
74) N-amyl acetate	10.640	43	40818	10.587	ug/l #	53
76) 1,2,3-Trichloropropane	11.079	75	69535	25.203	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	69535	82.156	ug/l #	5
93) 1,2,4-Trichlorobenzene	13.591	180	728	0.272	ug/l	81

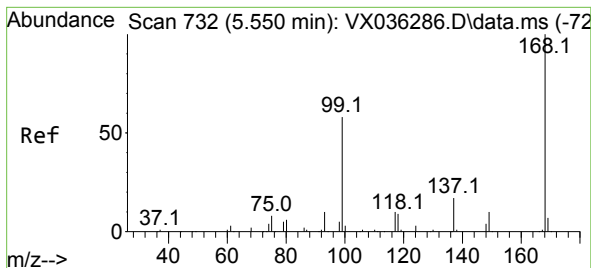
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 11 01:29:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X062323W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 23 15:03:28 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.556 min Scan# 71

Delta R.T. 0.007 min

Lab File: VX036481.D

Acq: 10 Jul 2023 14:33

Instrument :

MSVOA_X

ClientSampleId :

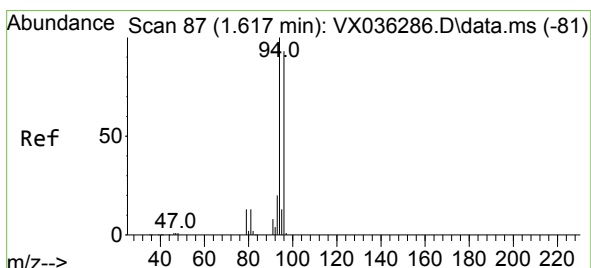
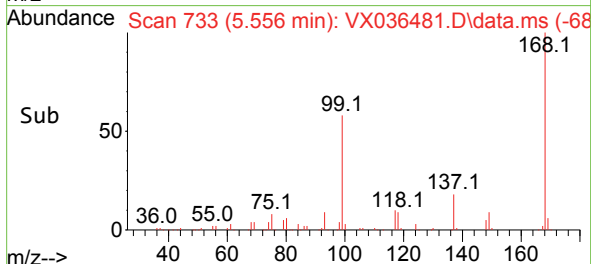
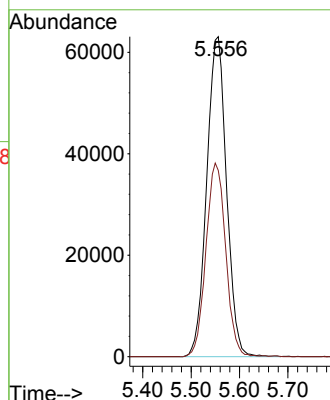
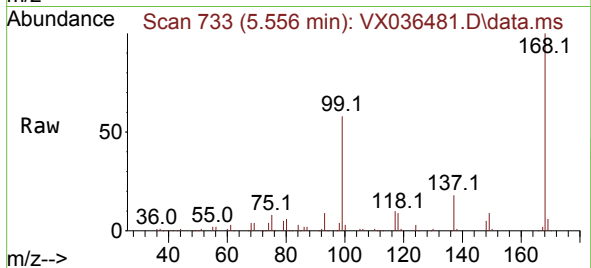
PB154051ZHE#03

Tgt Ion:168 Resp: 179504

Ion Ratio Lower Upper

168 100

99 58.2 56.6 85.0



#5

Bromomethane

Concen: 0.344 ug/l

RT: 1.618 min Scan# 87

Delta R.T. 0.001 min

Lab File: VX036481.D

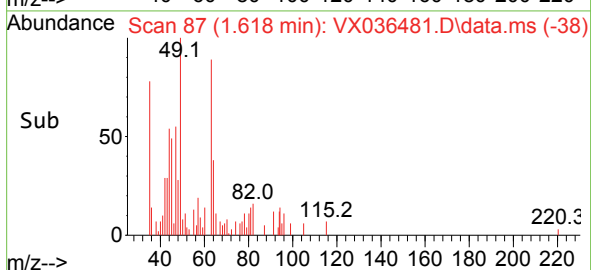
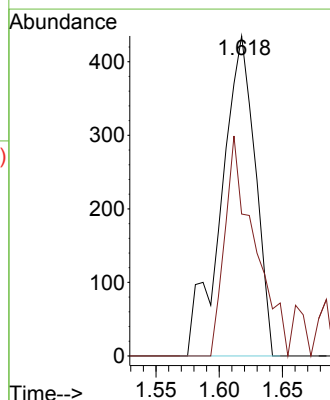
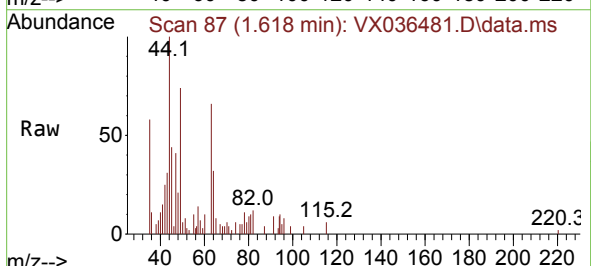
Acq: 10 Jul 2023 14:33

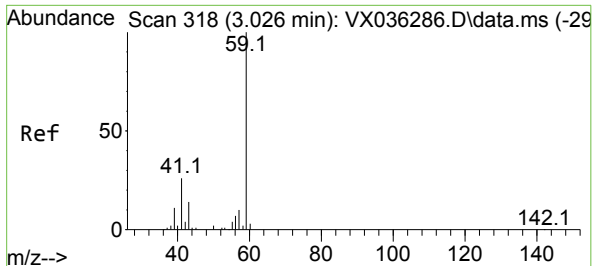
Tgt Ion: 94 Resp: 811

Ion Ratio Lower Upper

94 100

96 44.4 74.6 111.8#

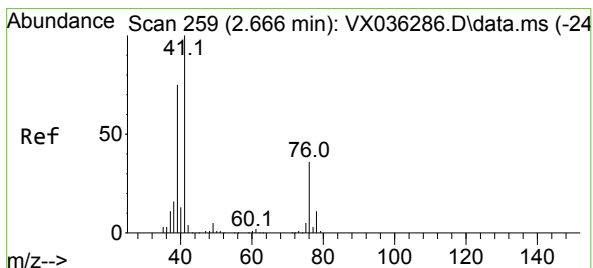
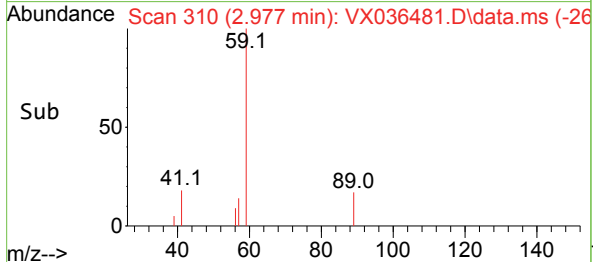
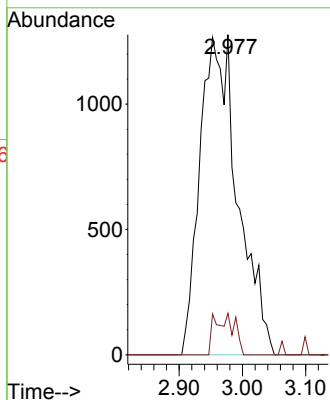
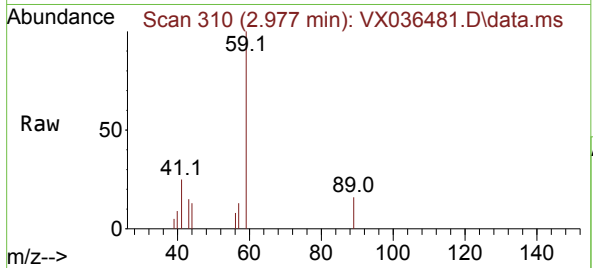




#11
Tert butyl alcohol
Concen: 11.307 ug/l
RT: 2.977 min Scan# 318
Delta R.T. -0.036 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

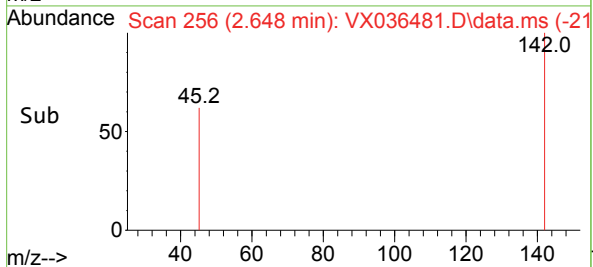
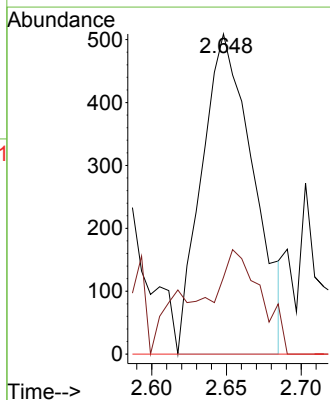
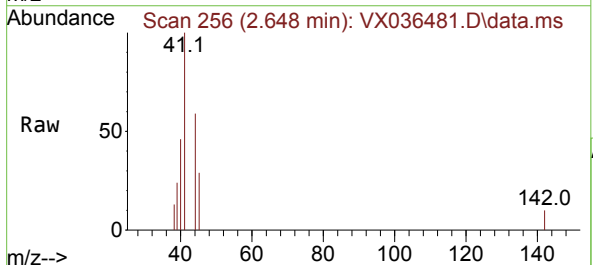
Instrument :
MSVOA_X
ClientSampleId :
PB154051ZHE#03

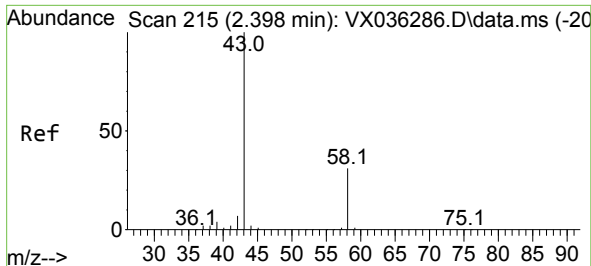
Tgt Ion: 59 Resp: 5296
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#



#14
Allyl chloride
Concen: 0.369 ug/l
RT: 2.648 min Scan# 256
Delta R.T. -0.018 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

Tgt Ion: 41 Resp: 1222
Ion Ratio Lower Upper
41 100
39 23.9 55.8 83.6#
76 0.0 24.3 36.5#

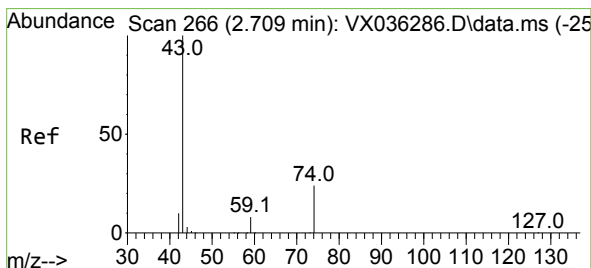
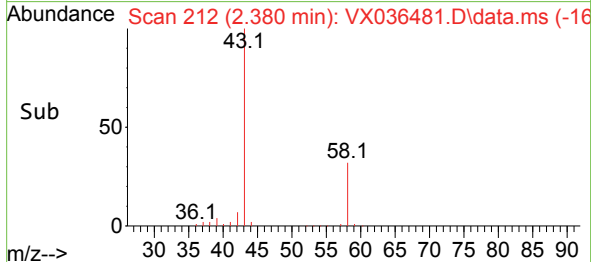
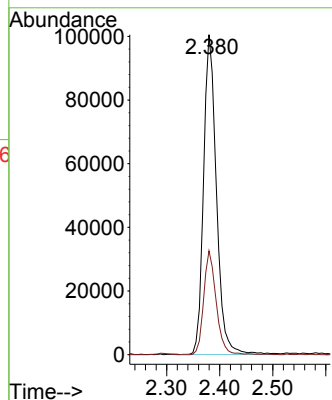
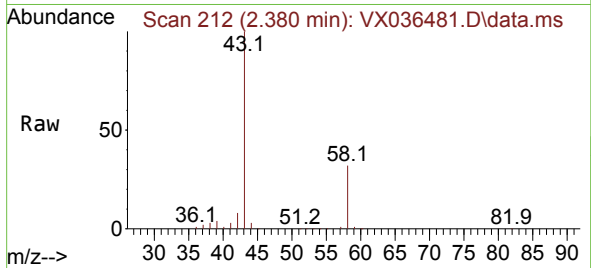




#16
Acetone
Concen: 154.415 ug/l
RT: 2.380 min Scan# 215
Delta R.T. -0.024 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

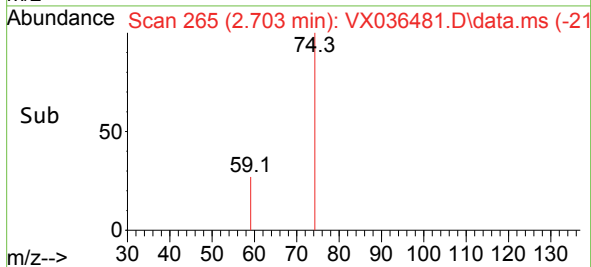
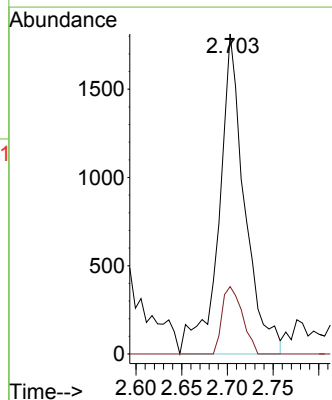
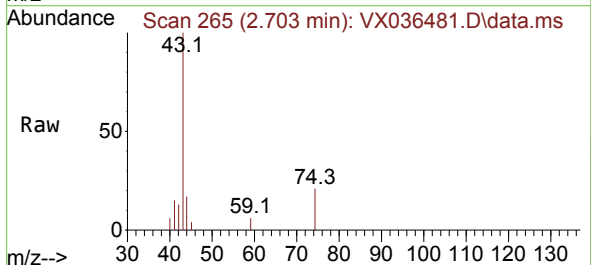
Instrument :
MSVOA_X
ClientSampleId :
PB154051ZHE#03

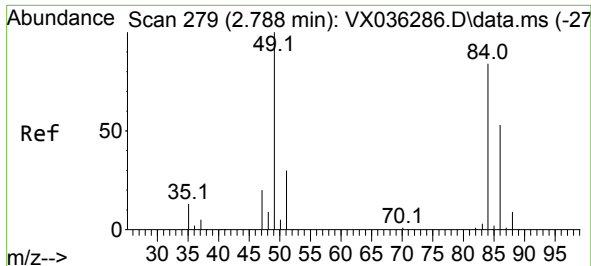
Tgt Ion: 43 Resp: 169826
Ion Ratio Lower Upper
43 100
58 32.5 21.9 32.9



#18
Methyl Acetate
Concen: 0.780 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

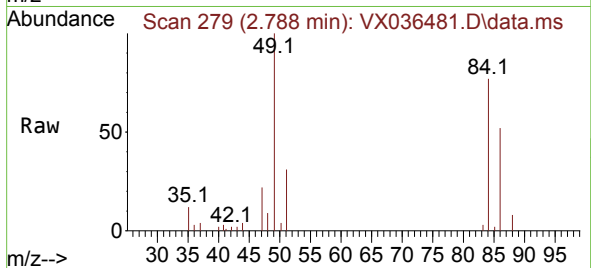
Tgt Ion: 43 Resp: 3526
Ion Ratio Lower Upper
43 100
74 16.7 17.8 26.8#



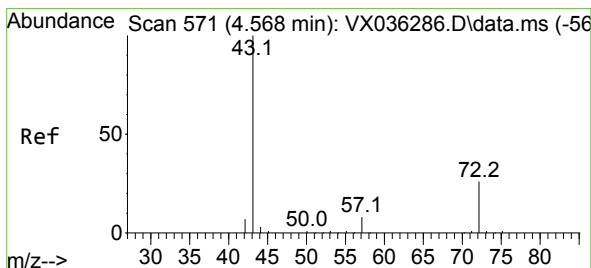
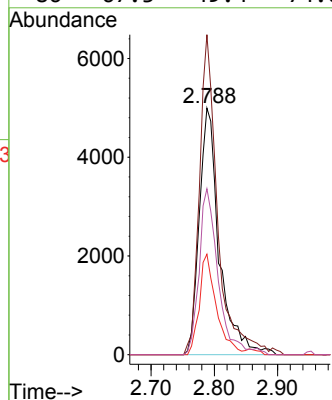


#20
Methylene Chloride
Concen: 4.648 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

Instrument :
MSVOA_X
ClientSampleId :
PB154051ZHE#03

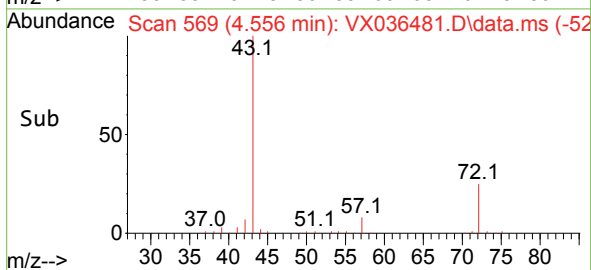
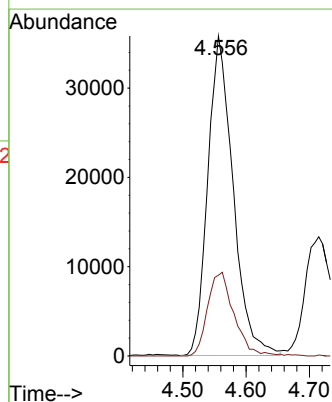
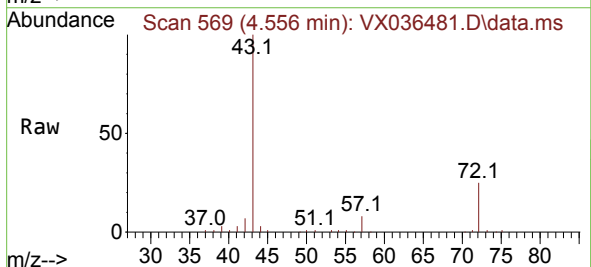


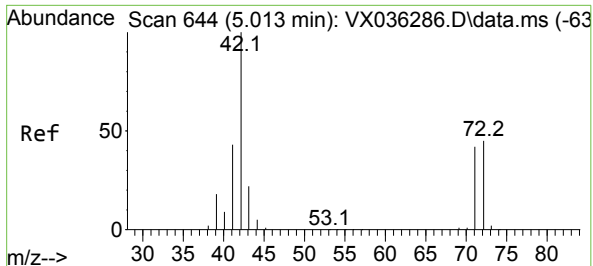
Tgt Ion: 84	Resp: 11006
Ion Ratio	Lower Upper
84 100	
49 129.8	103.6 155.4
51 40.8	33.8 50.6
86 67.3	49.4 74.0



#25
2-Butanone
Concen: 62.828 ug/l
RT: 4.556 min Scan# 569
Delta R.T. -0.012 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

Tgt Ion: 43	Resp: 99280
Ion Ratio	Lower Upper
43 100	
72 25.3	19.4 29.2





#29

Tetrahydrofuran

Concen: 3.158 ug/l

RT: 5.019 min Scan# 644

Delta R.T. 0.000 min

Lab File: VX036481.D

Acq: 10 Jul 2023 14:33

Instrument :

MSVOA_X

ClientSampleId :

PB154051ZHE#03

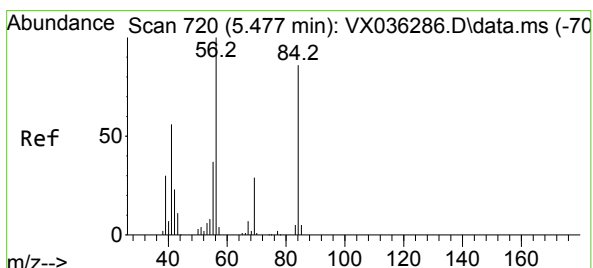
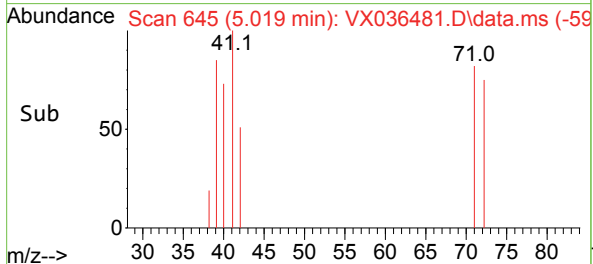
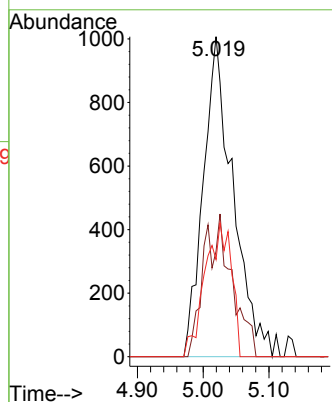
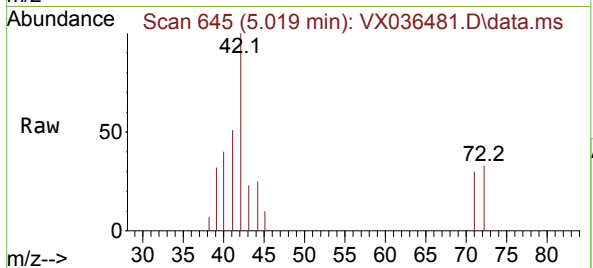
Tgt Ion: 42 Resp: 3177

Ion Ratio Lower Upper

42 100

72 16.1 34.2 51.4#

71 36.9 32.2 48.2



#31

Cyclohexane

Concen: 1.297 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.080 min

Lab File: VX036481.D

Acq: 10 Jul 2023 14:33

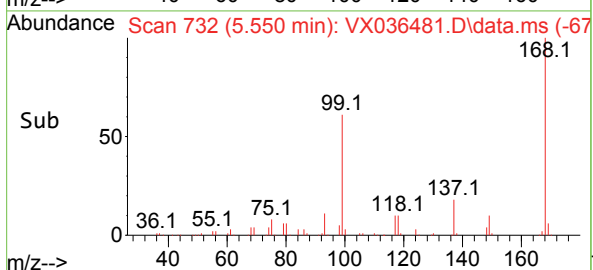
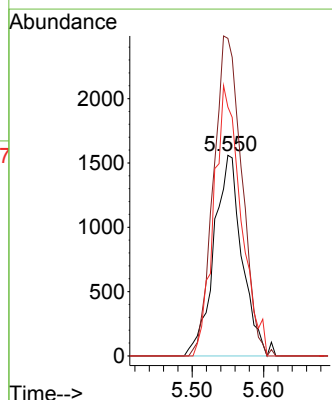
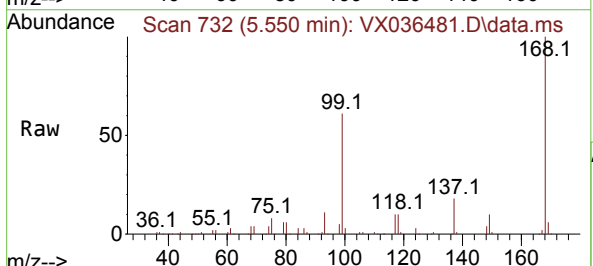
Tgt Ion: 56 Resp: 4275

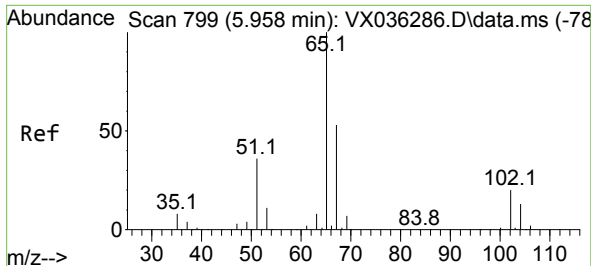
Ion Ratio Lower Upper

56 100

69 158.3 23.4 35.2#

84 124.1 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 46.875 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX036481.D

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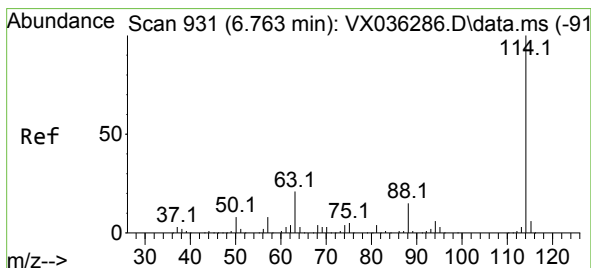
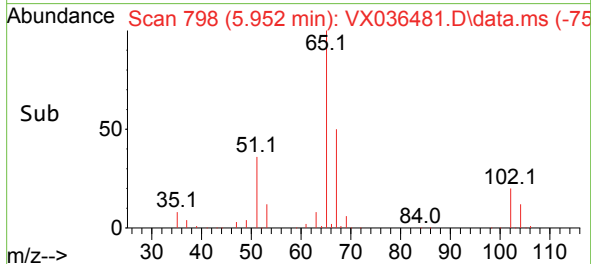
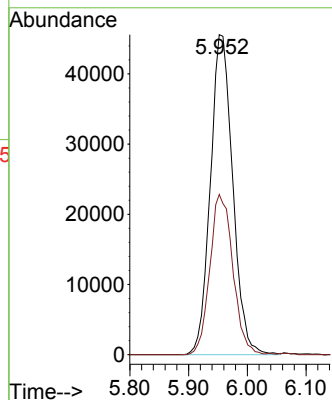
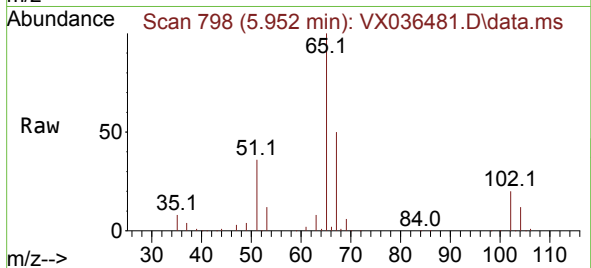
PB154051ZHE#03

Tgt Ion: 65 Resp: 120612

Ion Ratio Lower Upper

65 100

67 51.4 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX036481.D

Acq: 10 Jul 2023 14:33

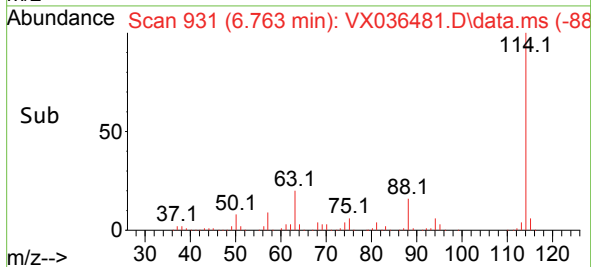
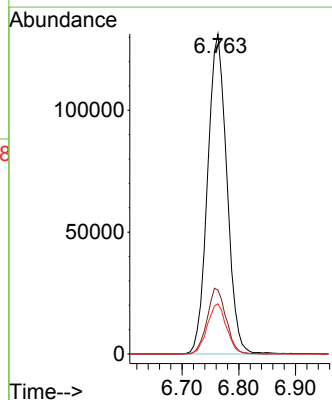
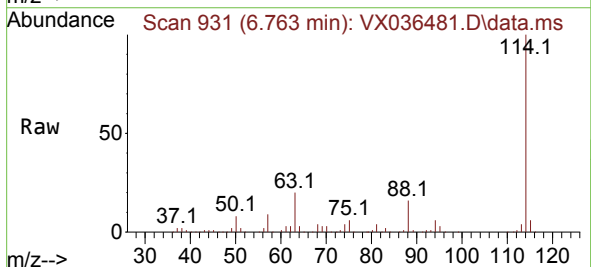
Tgt Ion: 114 Resp: 309559

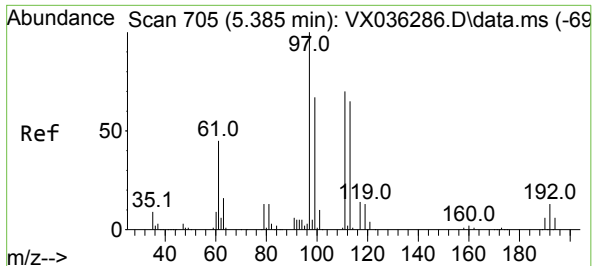
Ion Ratio Lower Upper

114 100

63 20.0 0.0 45.0

88 15.7 0.0 36.6

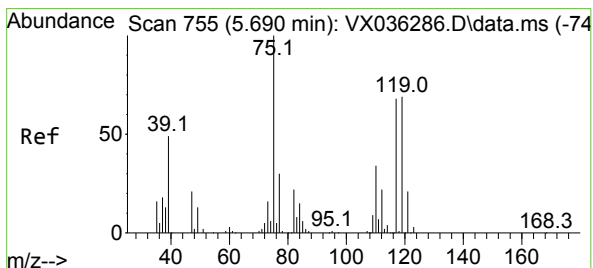
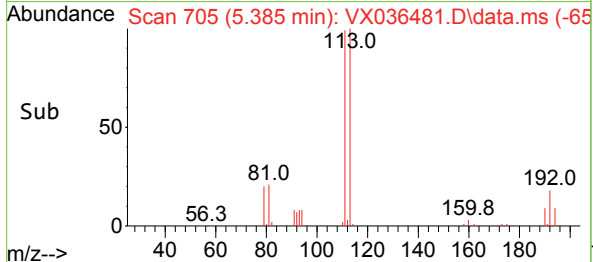
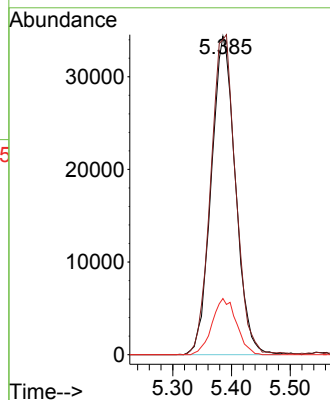
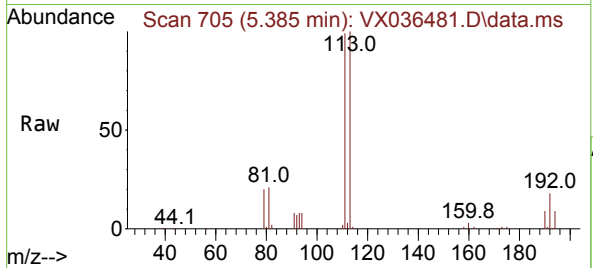




#35
Dibromofluoromethane
Concen: 48.071 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

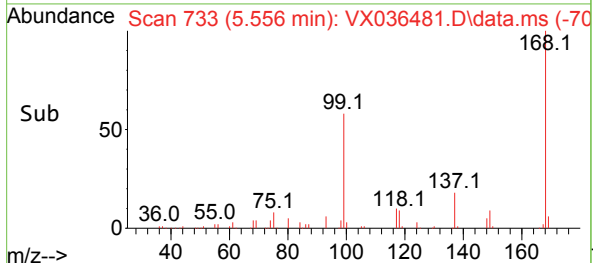
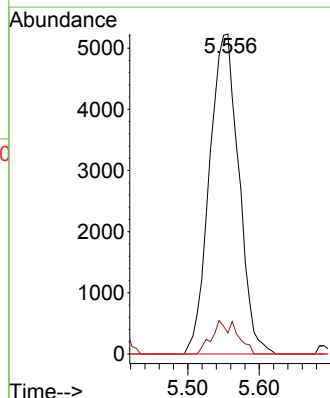
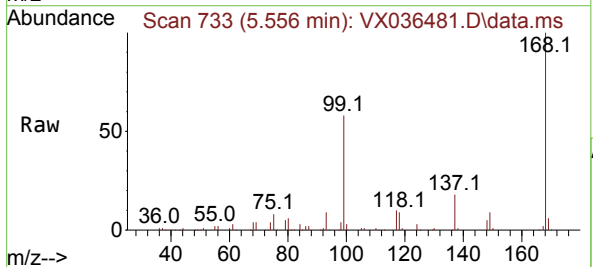
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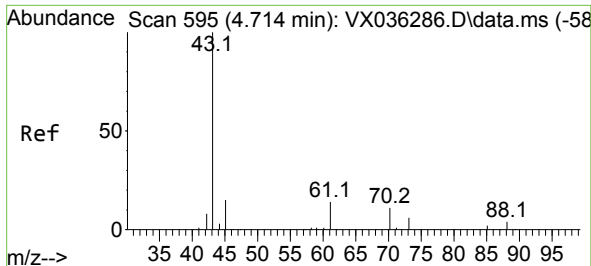
Tgt Ion:113 Resp: 98119
Ion Ratio Lower Upper
113 100
111 103.3 82.9 124.3
192 17.8 13.3 19.9



#36
1,1-Dichloropropene
Concen: 4.908 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.140 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

Tgt Ion: 75 Resp: 14933
Ion Ratio Lower Upper
75 100
110 8.9 17.0 50.9#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 13.145 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.001 min

Lab File: VX036481.D

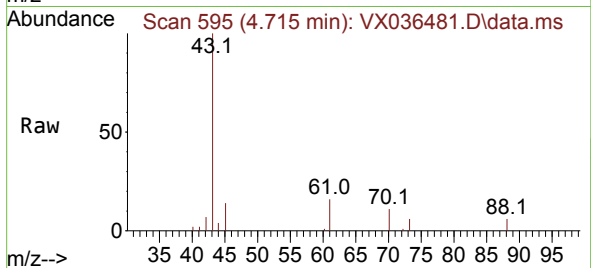
Acq: 10 Jul 2023 14:33

Instrument :

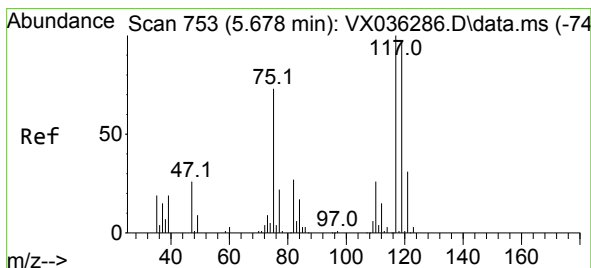
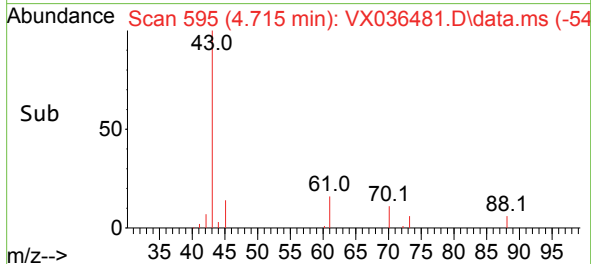
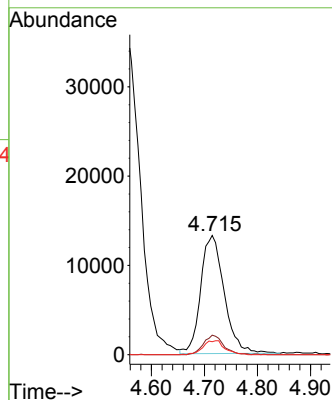
MSVOA_X

ClientSampleId :

PB154051ZHE#03



Tgt Ion:	43	Resp:	40764
Ion Ratio	Lower	Upper	
43	100		
61	14.0	10.6	16.0
70	11.0	8.3	12.5



#38

Carbon Tetrachloride

Concen: 6.396 ug/l

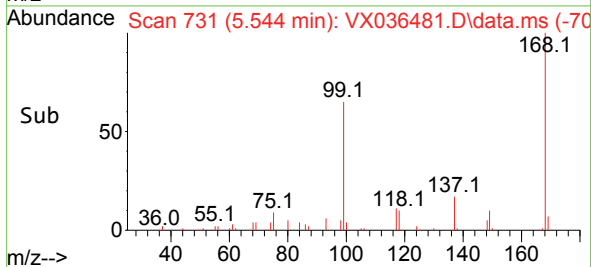
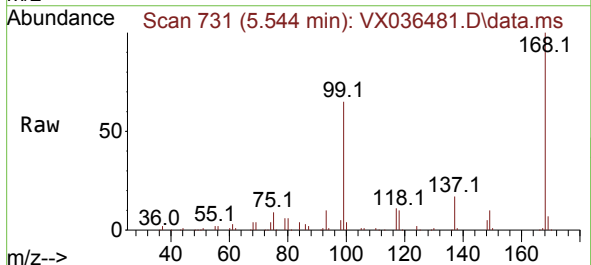
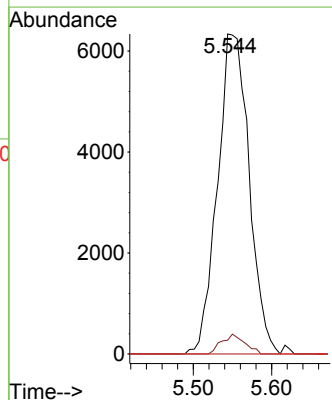
RT: 5.544 min Scan# 731

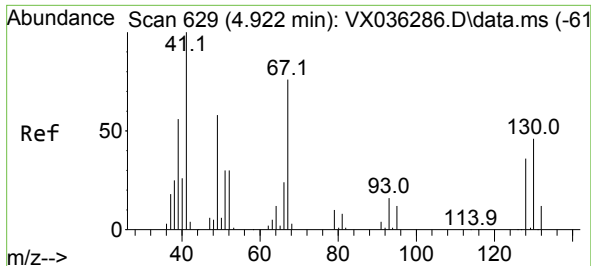
Delta R.T. -0.134 min

Lab File: VX036481.D

Acq: 10 Jul 2023 14:33

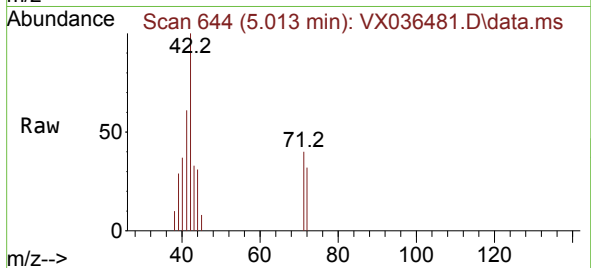
Tgt Ion:	117	Resp:	17775
Ion Ratio	Lower	Upper	
117	100		
119	4.3	78.2	117.2#
121	0.0	24.4	36.6#



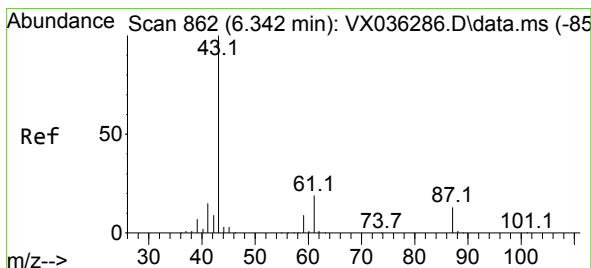
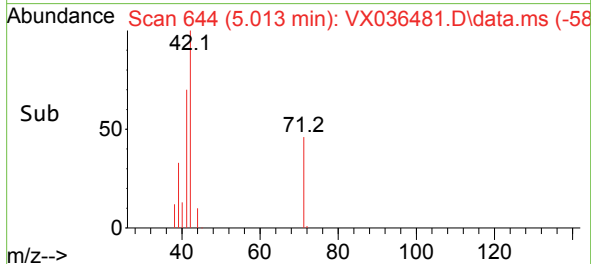
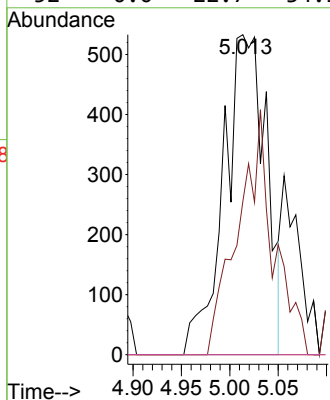


#41
Methacrylonitrile
Concen: 0.950 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.091 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

Instrument :
MSVOA_X
ClientSampleId :
PB154051ZHE#03

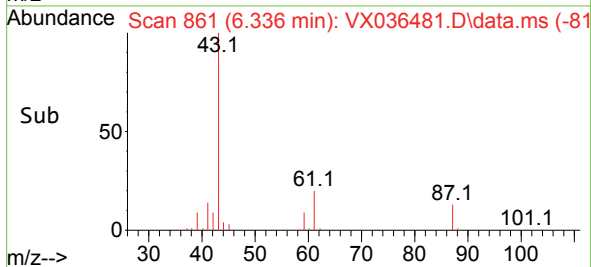
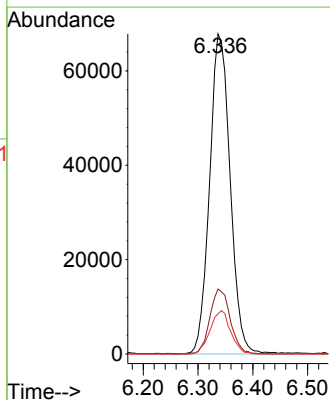
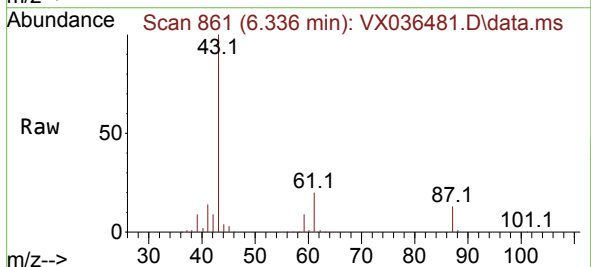


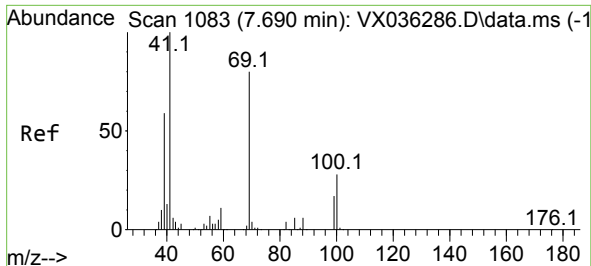
Tgt Ion: 41 Resp: 1634
Ion Ratio Lower Upper
41 100
39 63.2 45.2 67.8
67 0.0 52.6 78.8#
52 0.0 22.7 34.1#



#43
Isopropyl Acetate
Concen: 35.718 ug/l
RT: 6.336 min Scan# 861
Delta R.T. -0.006 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

Tgt Ion: 43 Resp: 176695
Ion Ratio Lower Upper
43 100
61 20.1 15.2 22.8
87 13.4 9.8 14.6

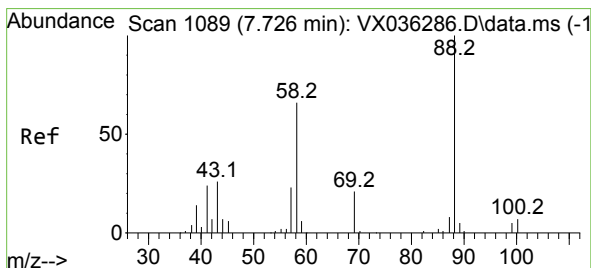
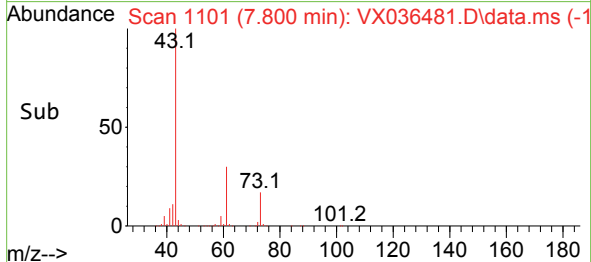
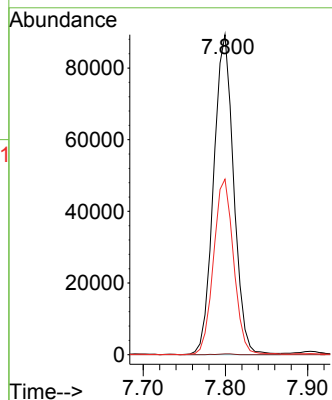
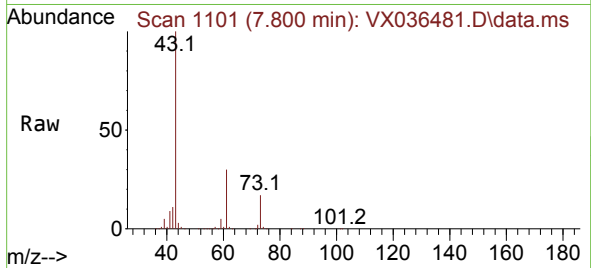




#48
Methyl methacrylate
Concen: 61.370 ug/l
RT: 7.800 min Scan# 1101
Delta R.T. 0.111 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

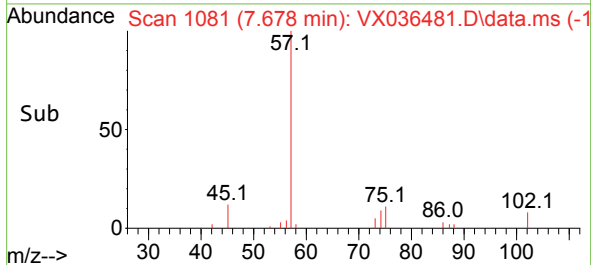
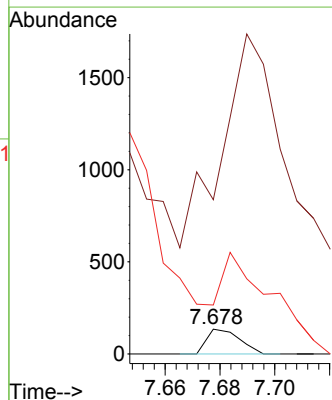
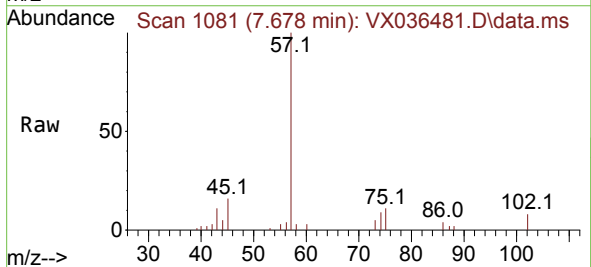
Instrument :
MSVOA_X
ClientSampleId :
PB154051ZHE#03

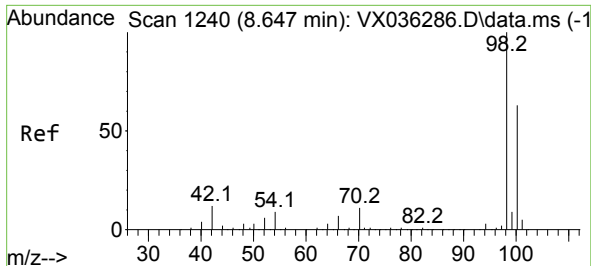
Tgt Ion: 41 Resp: 151375
Ion Ratio Lower Upper
41 100
69 0.2 59.2 88.8#
39 54.9 47.7 71.5



#49
1,4-Dioxane
Concen: 2.048 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. -0.054 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

Tgt Ion: 88 Resp: 112
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 611.6 60.1 90.1#

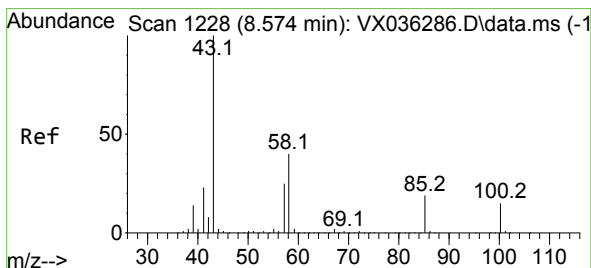
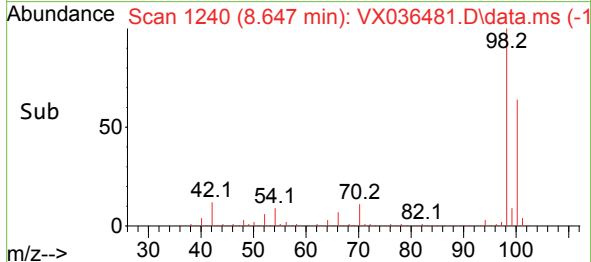
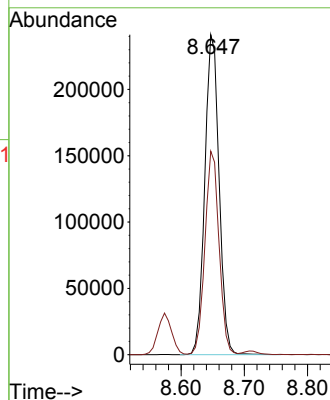
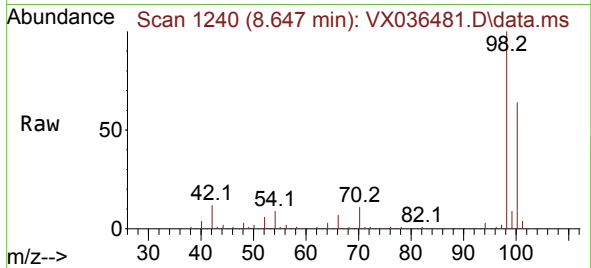




#50
Toluene-d8
Concen: 49.794 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.001 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

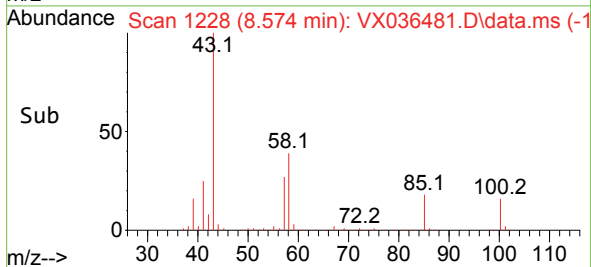
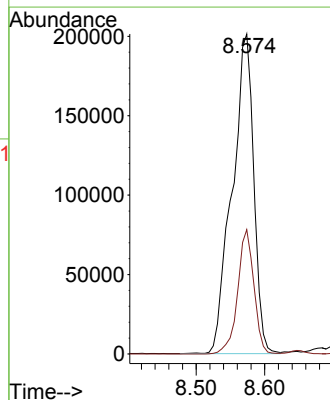
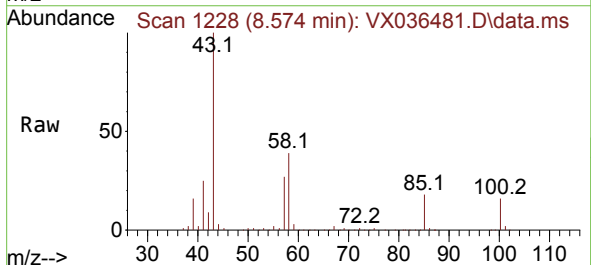
Instrument :
MSVOA_X
ClientSampleId :
PB154051ZHE#03

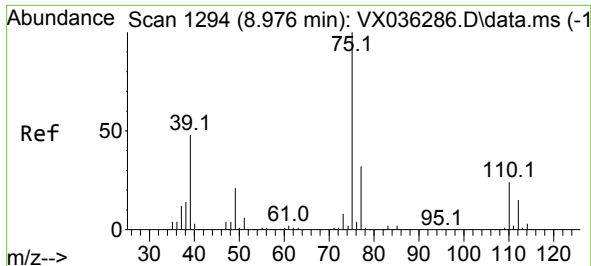
Tgt Ion: 98 Resp: 379611
Ion Ratio Lower Upper
98 100
100 62.4 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 137.909 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.001 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

Tgt Ion: 43 Resp: 439542
Ion Ratio Lower Upper
43 100
58 29.4 30.4 45.6#

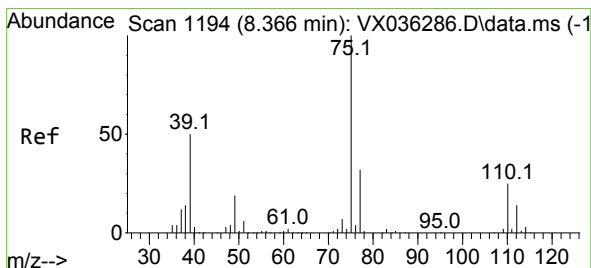
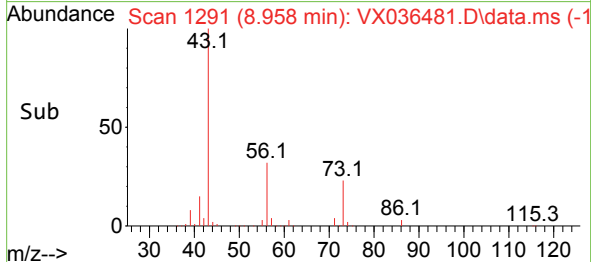
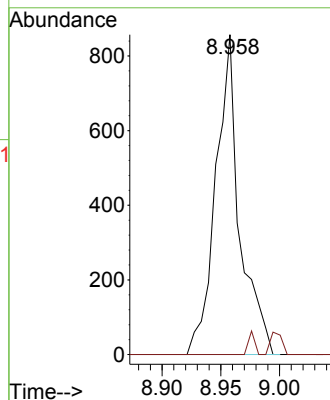
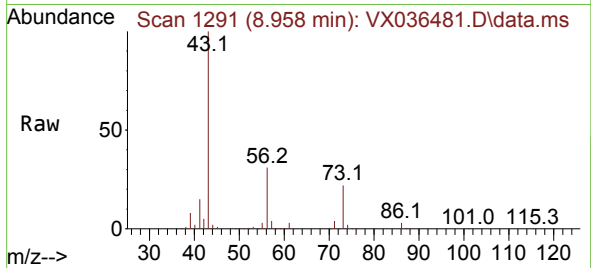




#53
t-1,3-Dichloropropene
Concen: 0.407 ug/l
RT: 8.958 min Scan# 1124
Delta R.T. -0.018 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

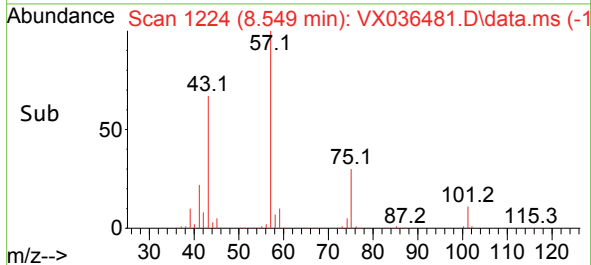
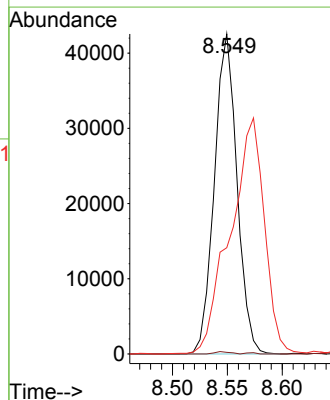
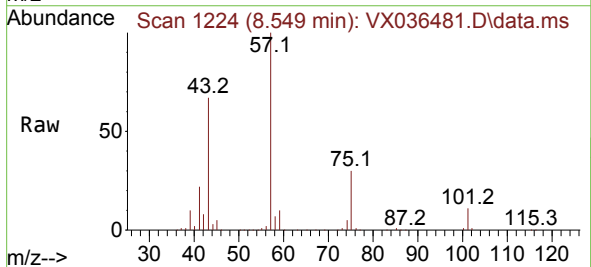
Instrument :
MSVOA_X
ClientSampleId :
PB154051ZHE#03

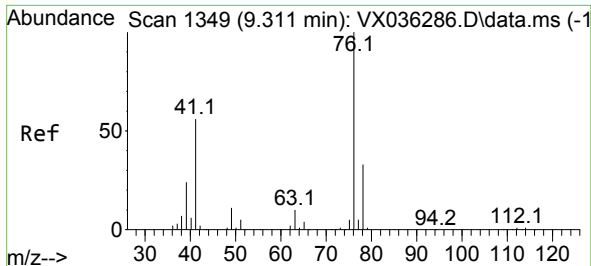
Tgt Ion: 75 Resp: 1211
Ion Ratio Lower Upper
75 100
77 0.0 25.7 38.5#



#54
cis-1,3-Dichloropropene
Concen: 18.136 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.183 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

Tgt Ion: 75 Resp: 61023
Ion Ratio Lower Upper
75 100
77 0.5 25.3 37.9#
39 33.0 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 1.967 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX036481.D

Acq: 10 Jul 2023 14:33

Instrument :

MSVOA_X

ClientSampleId :

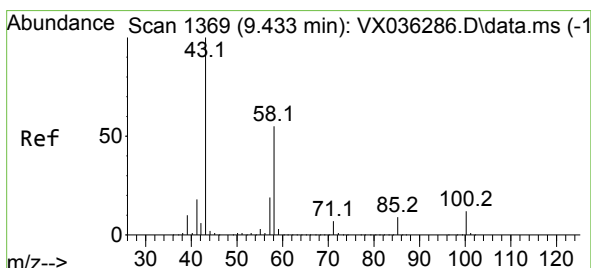
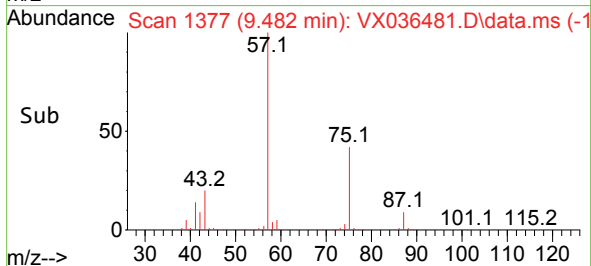
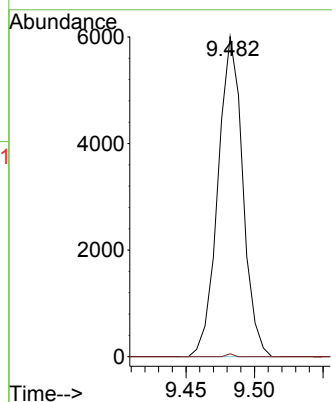
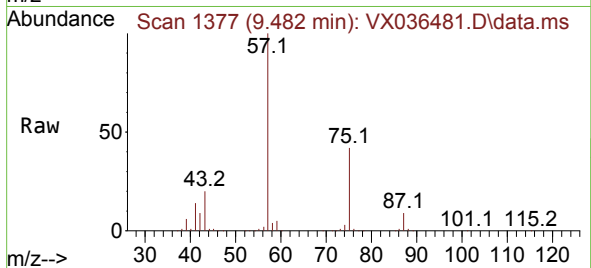
PB154051ZHE#03

Tgt Ion: 76 Resp: 7545

Ion Ratio Lower Upper

76 100

78 0.3 26.1 39.1#



#59

2-Hexanone

Concen: 45.230 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX036481.D

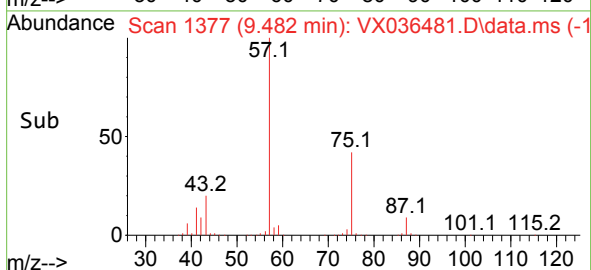
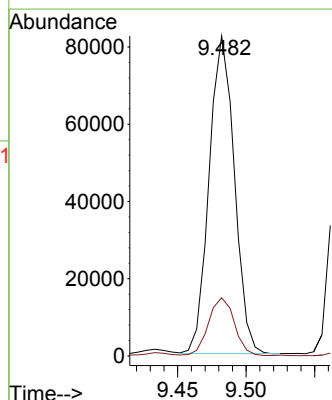
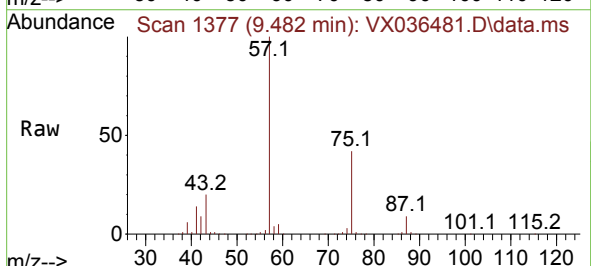
Acq: 10 Jul 2023 14:33

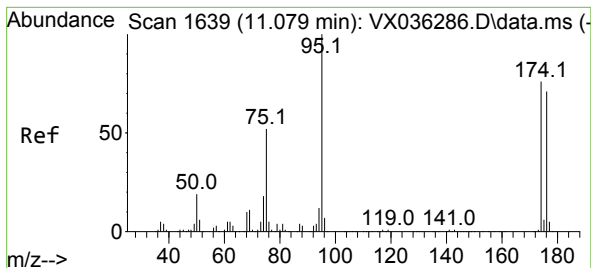
Tgt Ion: 43 Resp: 105270

Ion Ratio Lower Upper

43 100

58 19.0 26.2 78.5#

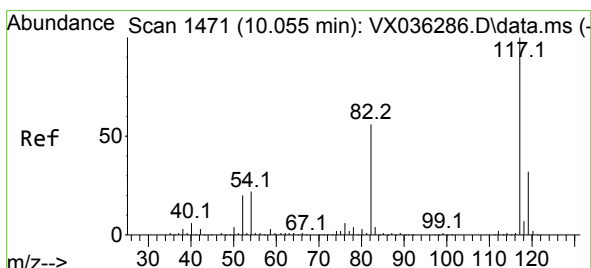
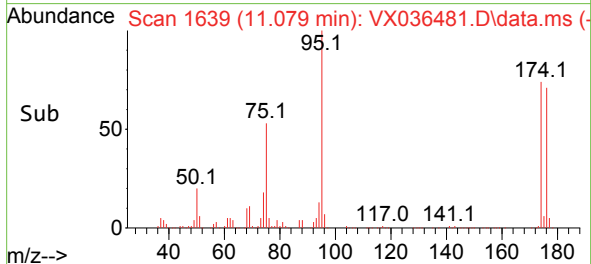
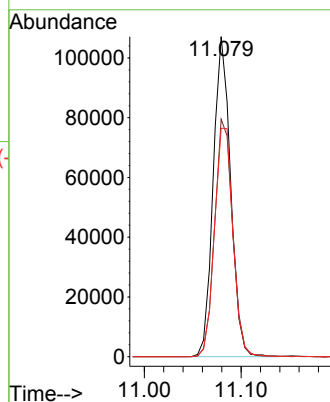
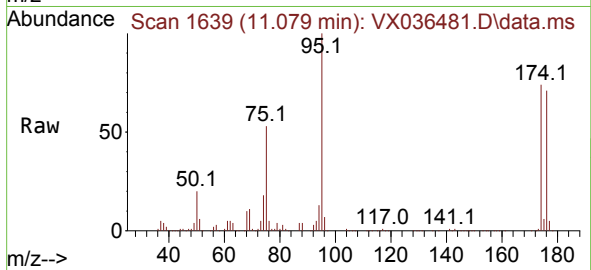




#62
4-Bromofluorobenzene
Concen: 49.675 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

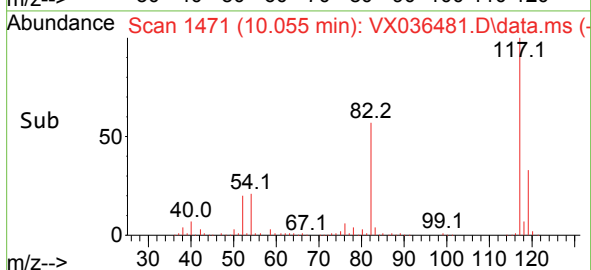
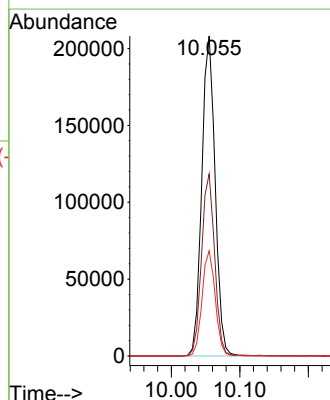
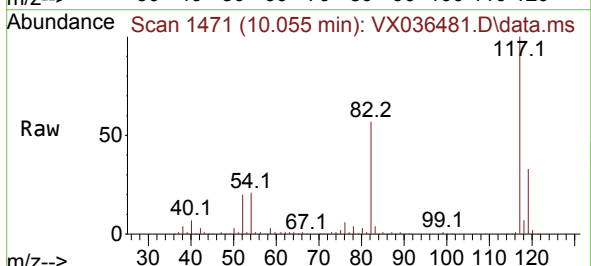
Instrument :
MSVOA_X
ClientSampleId :
PB154051ZHE#03

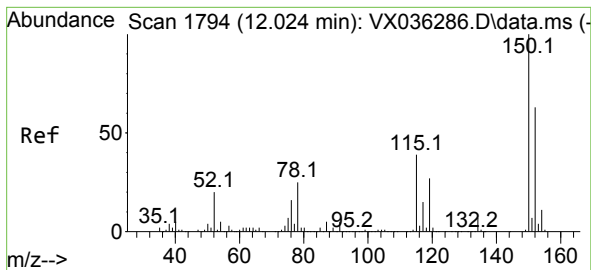
Tgt Ion: 95 Resp: 133393
Ion Ratio Lower Upper
95 100
174 76.8 0.0 135.6
176 76.3 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036481.D
Acq: 10 Jul 2023 14:33

Tgt Ion: 117 Resp: 282943
Ion Ratio Lower Upper
117 100
82 56.9 46.2 69.4
119 32.9 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX036481.D

Acq: 10 Jul 2023 14:33

Instrument :

MSVOA_X

ClientSampleId :

PB154051ZHE#03

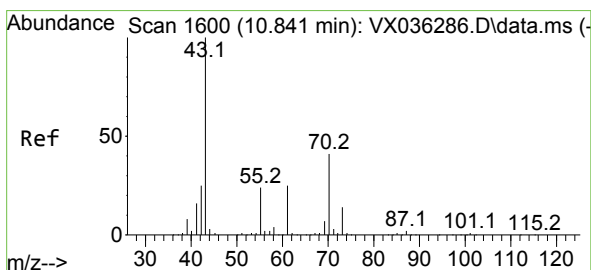
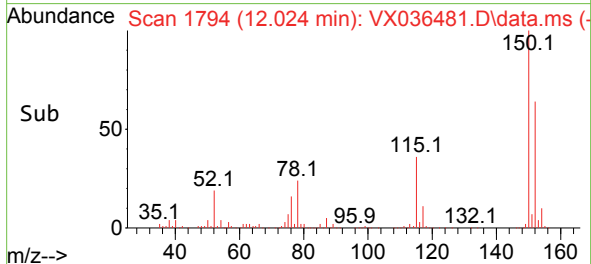
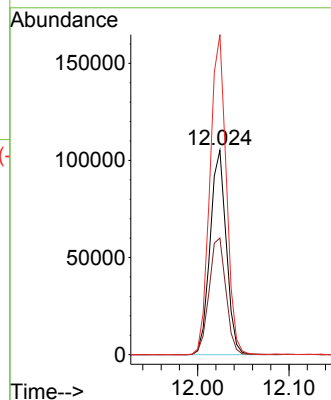
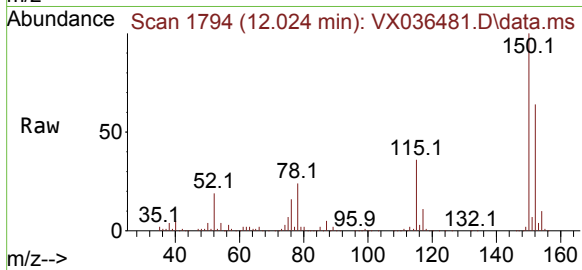
Tgt Ion:152 Resp: 129345

Ion Ratio Lower Upper

152 100

115 59.5 43.3 129.9

150 157.8 0.0 345.0



#74

N-ethyl acetate

Concen: 10.587 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.201 min

Lab File: VX036481.D

Acq: 10 Jul 2023 14:33

Tgt Ion: 43 Resp: 40818

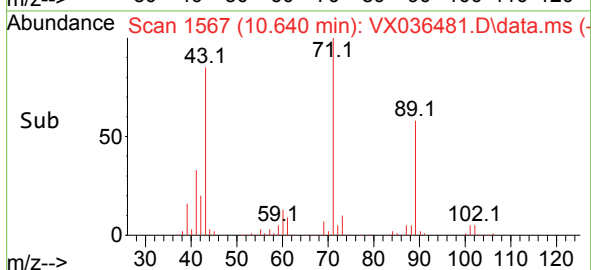
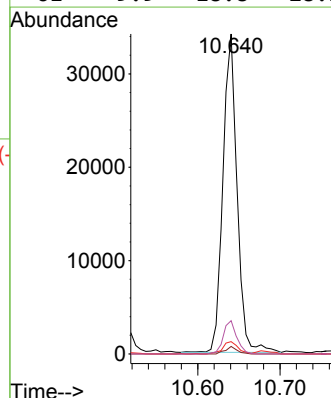
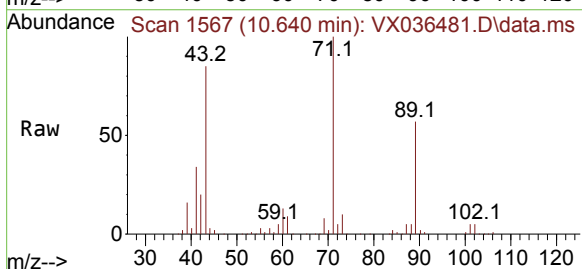
Ion Ratio Lower Upper

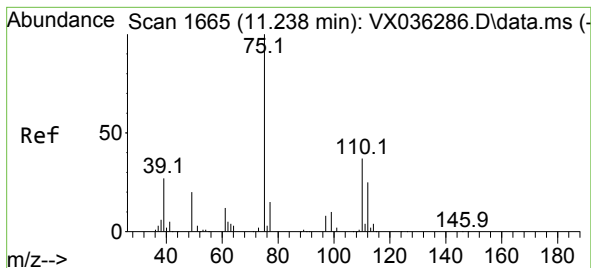
43 100

70 1.9 32.9 49.3#

55 4.2 19.3 28.9#

61 9.9 18.8 28.2#





#76

1,2,3-Trichloropropane

Concen: 25.203 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX036481.D

Acq: 10 Jul 2023 14:33

Instrument :

MSVOA_X

ClientSampleId :

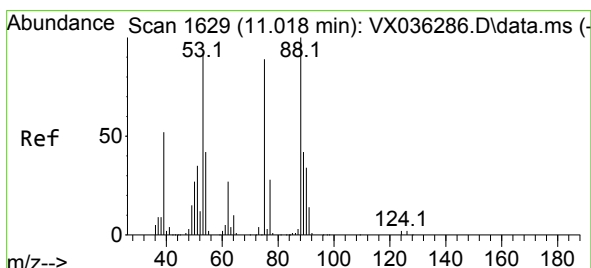
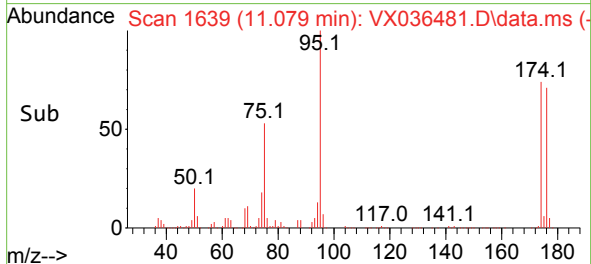
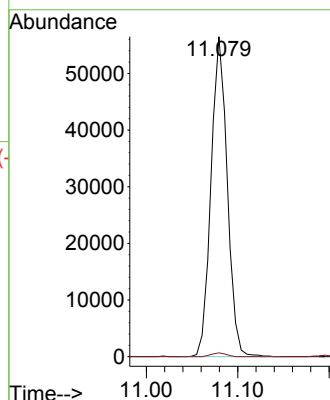
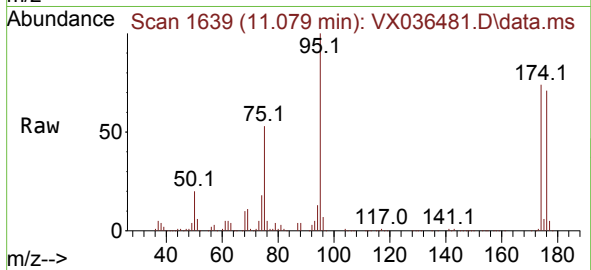
PB154051ZHE#03

Tgt Ion: 75 Resp: 69535

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.156 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX036481.D

Acq: 10 Jul 2023 14:33

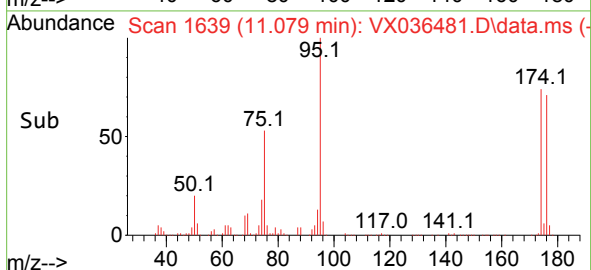
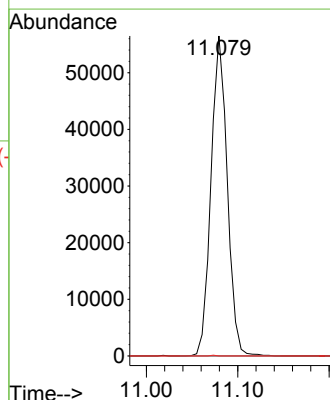
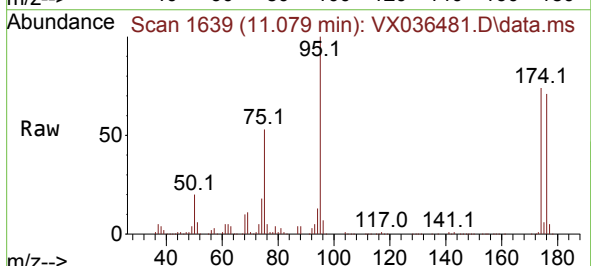
Tgt Ion: 75 Resp: 69535

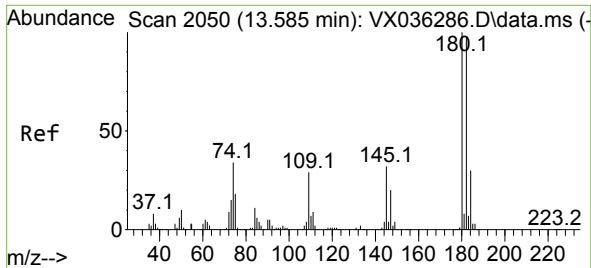
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

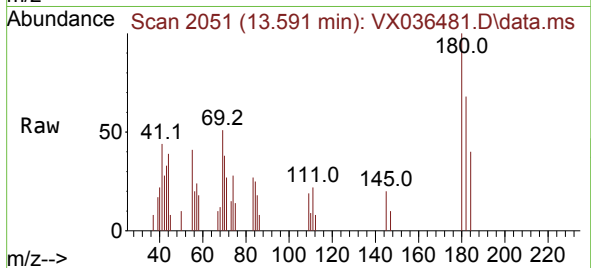
89 0.1 36.9 55.3#





#93
 1,2,4-Trichlorobenzene
 Concen: 0.272 ug/l
 RT: 13.591 min Scan# 2051
 Delta R.T. 0.006 min
 Lab File: VX036481.D
 Acq: 10 Jul 2023 14:33

Instrument :
 MSVOA_X
 ClientSampleId :
 PB154051ZHE#03



Tgt Ion:	180	Resp:	728
Ion Ratio	Lower	Upper	
180	100		
182	79.7	48.3	144.8
145	21.6	18.0	54.0

