

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050923\
 Data File : VN077640.D
 Acq On : 09 May 2023 18:32
 Operator : JC\MD
 Sample : PB152652ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152652ZHE#06

Quant Time: May 10 04:49:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N050923W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 09 13:52:31 2023
 Response via : Initial Calibration

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

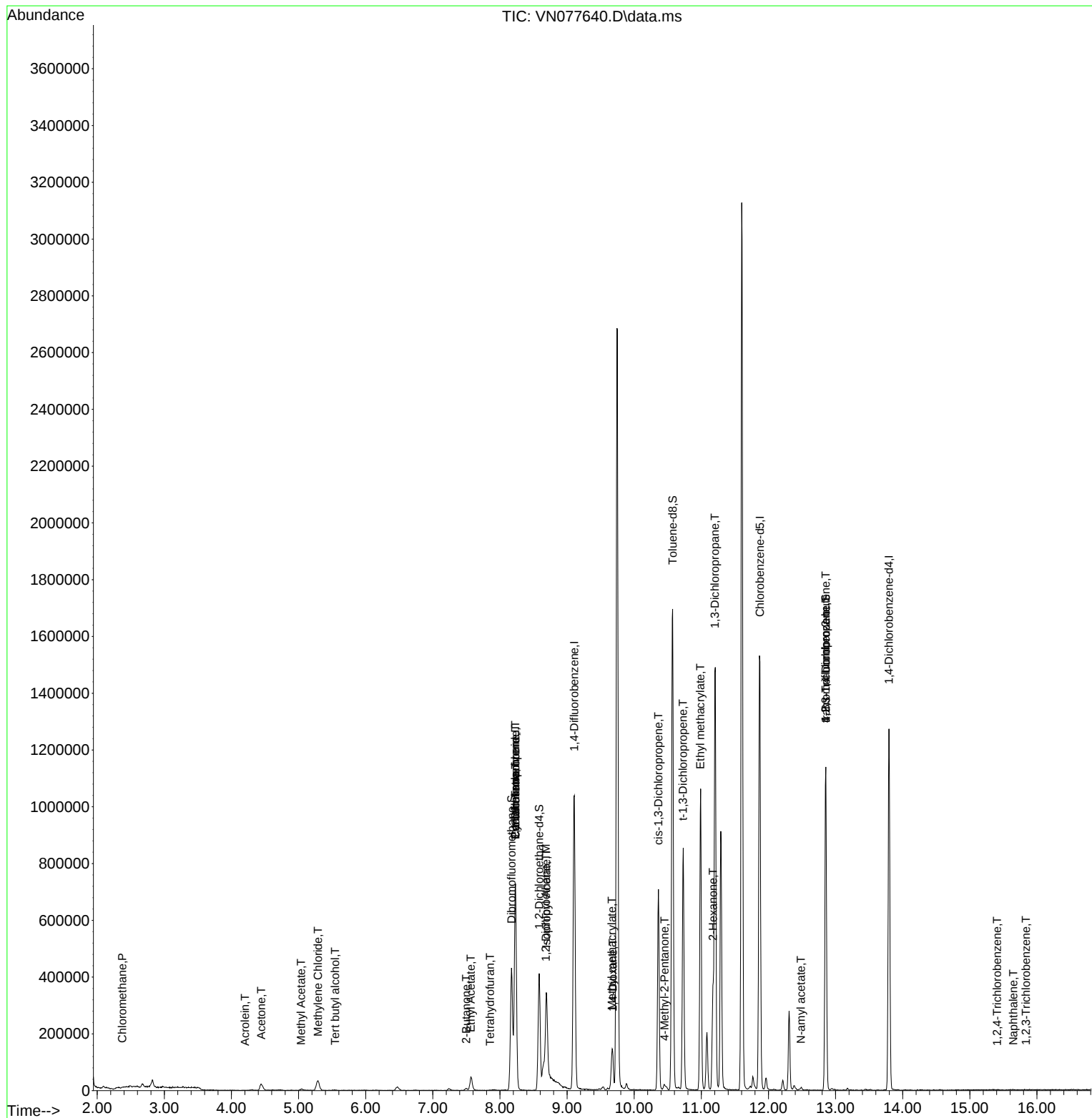
Internal Standards						
1) Pentafluorobenzene	8.231	168	545939	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	977923	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	982721	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	353518	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	335067	48.394	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.780%		
35) Dibromofluoromethane	8.172	113	303580	49.775	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.540%		
50) Toluene-d8	10.572	98	1255948	54.391	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	108.780%		
62) 4-Bromofluorobenzene	12.854	95	413972	53.005	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	106.020%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.372	50	1916	0.348	ug/l #	81
11) Tert butyl alcohol	5.543	59	1717	2.108	ug/l #	82
13) Acrolein	4.202	56	256	0.324	ug/l	96
16) Acetone	4.443	43	41517	25.251	ug/l	99
18) Methyl Acetate	5.037	43	6649	1.020	ug/l	92
20) Methylene Chloride	5.290	84	30491	4.475	ug/l #	91
25) 2-Butanone	7.496	43	9891	4.116	ug/l	93
29) Tetrahydrofuran	7.854	42	855	0.579	ug/l #	63
31) Cyclohexane	8.231	56	11504	1.300	ug/l #	16
36) 1,1-Dichloropropene	8.231	75	41760	4.961	ug/l #	49
37) Ethyl Acetate	7.566	43	67592	14.044	ug/l	97
38) Carbon Tetrachloride	8.231	117	58076	6.316	ug/l #	16
42) 1,2-Dichloroethane	8.684	62	2834	0.332	ug/l	86
43) Isopropyl Acetate	8.690	43	460186	54.536	ug/l #	78
48) Methyl methacrylate	9.666	41	7427	1.875	ug/l #	33
49) 1,4-Dioxane	9.684	88	215	1.825	ug/l #	1
51) 4-Methyl-2-Pentanone	10.454	43	19070	3.841	ug/l #	72
53) t-1,3-Dichloropropene	10.725	75	2650	0.306	ug/l #	70
54) cis-1,3-Dichloropropene	10.360	75	151294	15.344	ug/l #	61
56) Ethyl methacrylate	10.984	69	3627	0.438	ug/l #	1
57) 1,3-Dichloropropane	11.201	76	19638	1.860	ug/l #	43
59) 2-Hexanone	11.172	43	246238	70.182	ug/l #	19
74) N-amyl acetate	12.483	43	3723	0.535	ug/l #	43
76) 1,2,3-Trichloropropane	12.854	75	215705	29.567	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	215705	94.146	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.407	180	54	4.591	ug/l #	1
95) Naphthalene	15.648	128	1387	4.809	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.836	180	92	4.517	ug/l #	13

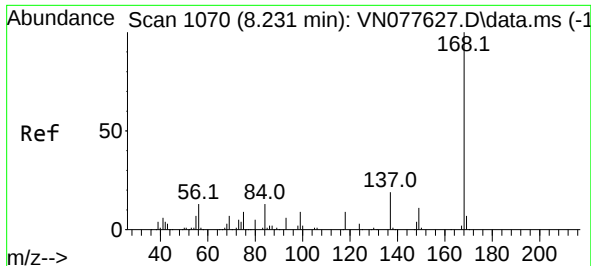
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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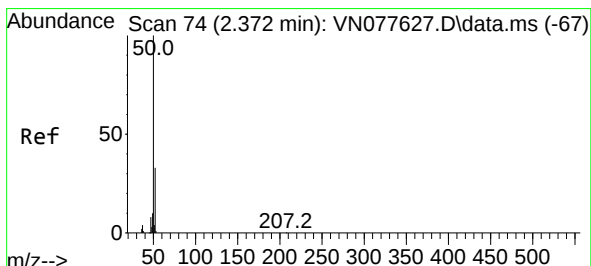
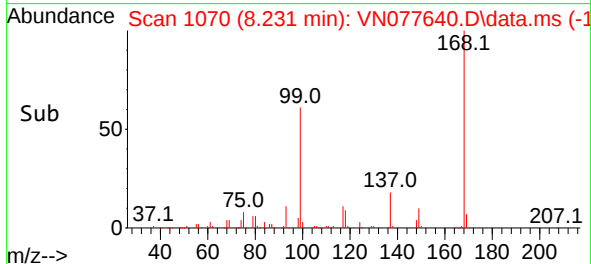
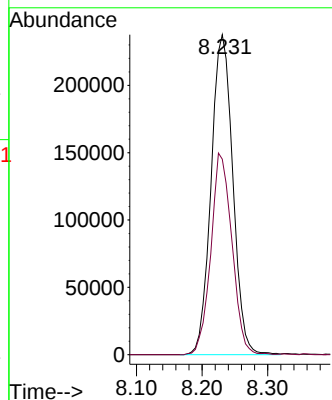
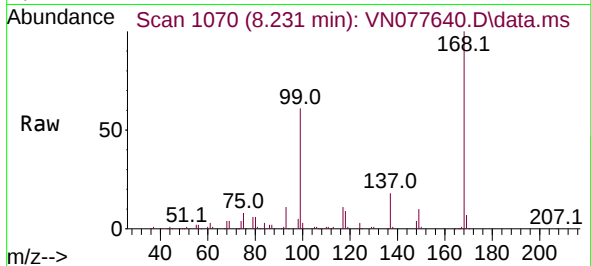




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

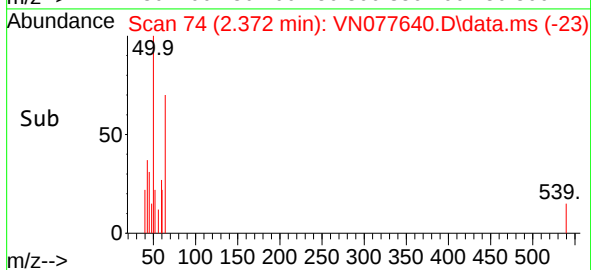
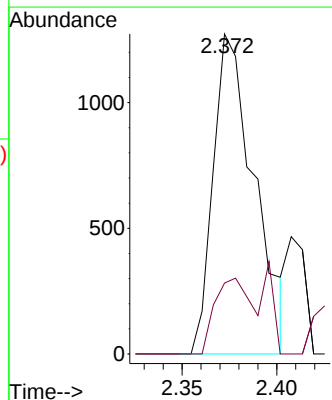
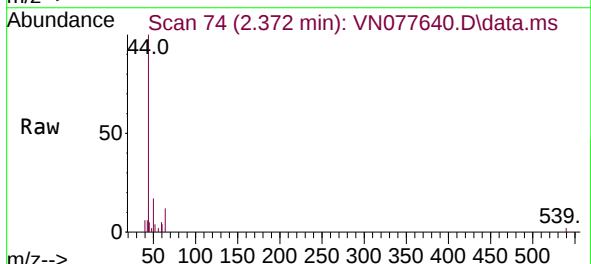
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#06

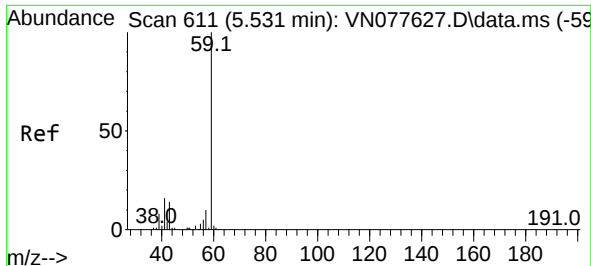
Tgt Ion:168 Resp: 545939
Ion Ratio Lower Upper
168 100
99 61.1 53.0 79.6



#3
Chloromethane
Concen: 0.348 ug/l
RT: 2.372 min Scan# 74
Delta R.T. 0.000 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Tgt Ion: 50 Resp: 1916
Ion Ratio Lower Upper
50 100
52 22.2 26.5 39.7#

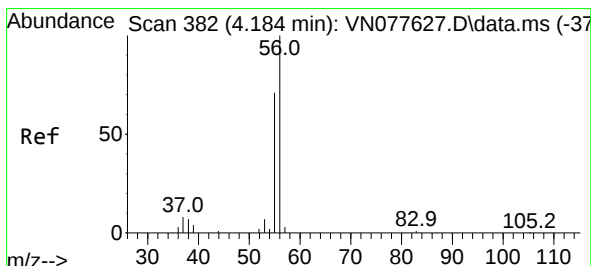
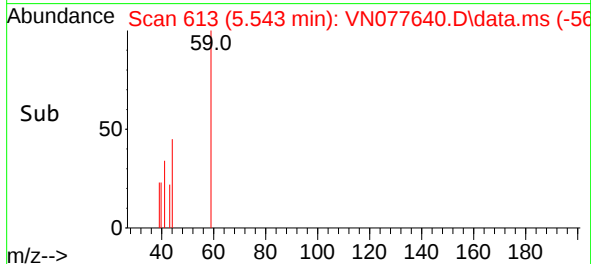
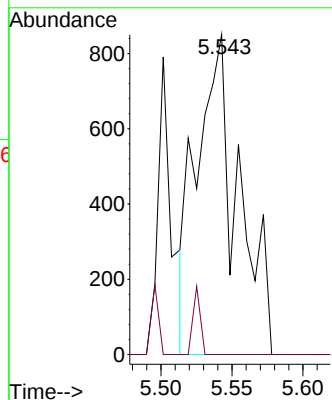
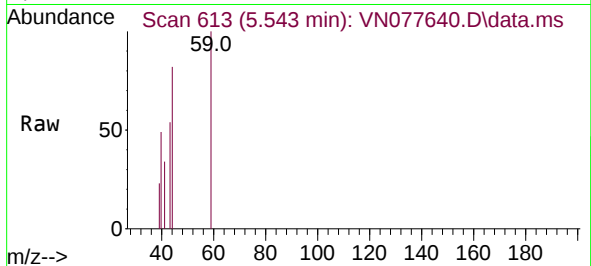




#11
Tert butyl alcohol
Concen: 2.108 ug/l
RT: 5.543 min Scan# 611
Delta R.T. 0.012 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

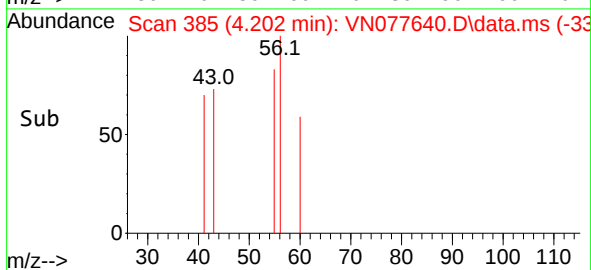
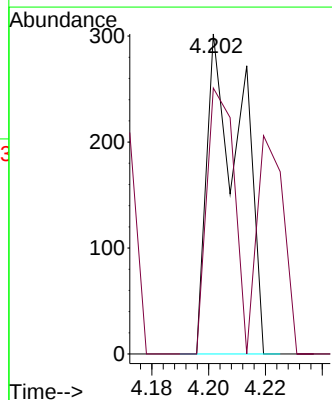
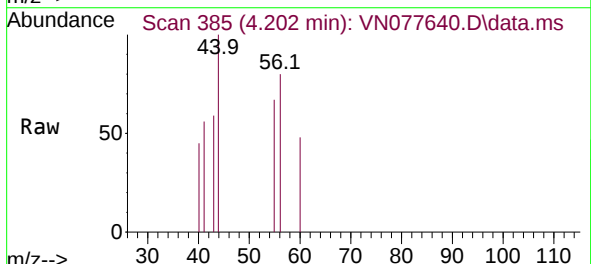
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#06

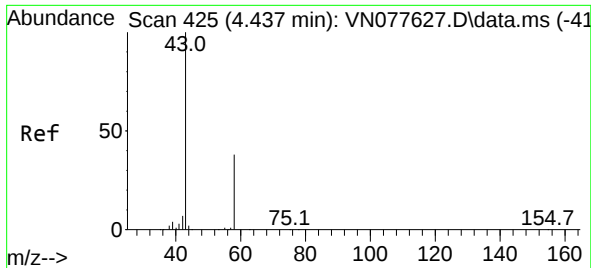
Tgt Ion: 59 Resp: 1717
Ion Ratio Lower Upper
59 100
57 3.7 8.2 12.4#



#13
Acrolein
Concen: 0.324 ug/l
RT: 4.202 min Scan# 385
Delta R.T. 0.018 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Tgt Ion: 56 Resp: 256
Ion Ratio Lower Upper
56 100
55 65.2 54.5 81.7





#16

Acetone

Concen: 25.251 ug/l

RT: 4.443 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN077640.D

Acq: 09 May 2023 18:32

Instrument :

MSVOA_N

ClientSampleId :

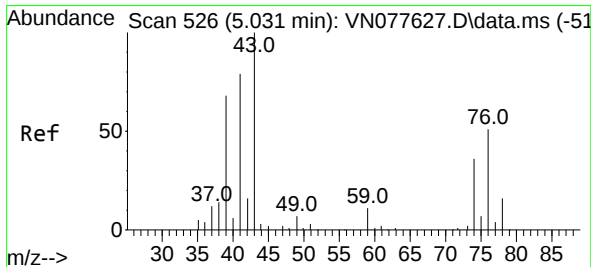
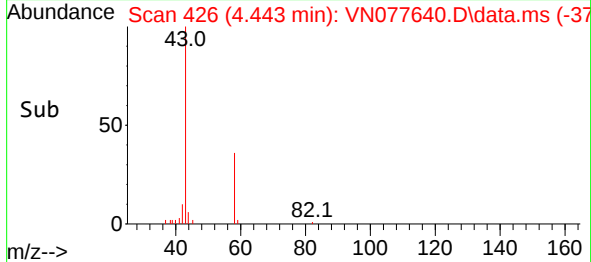
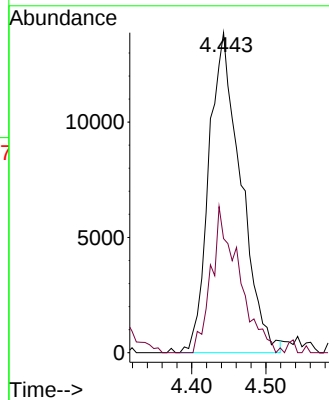
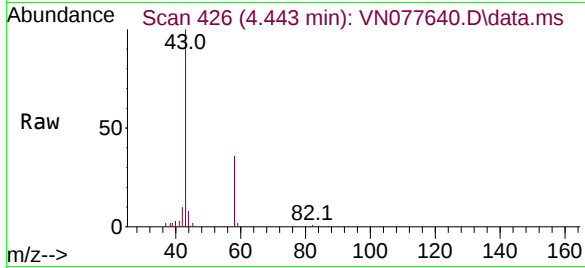
PB152652ZHE#06

Tgt Ion: 43 Resp: 41517

Ion Ratio Lower Upper

43 100

58 35.7 28.0 42.0



#18

Methyl Acetate

Concen: 1.020 ug/l

RT: 5.037 min Scan# 527

Delta R.T. 0.006 min

Lab File: VN077640.D

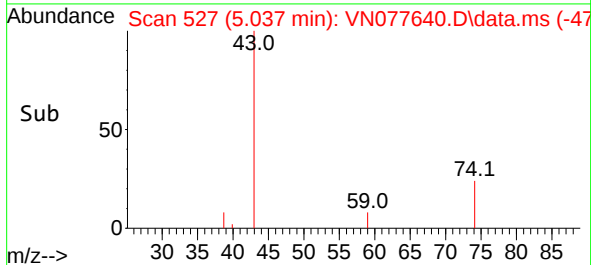
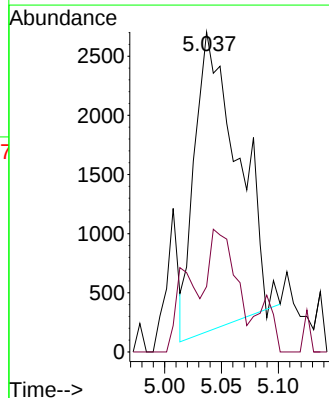
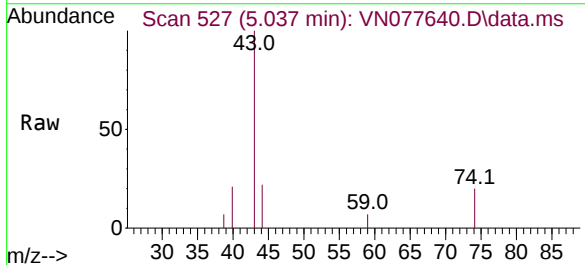
Acq: 09 May 2023 18:32

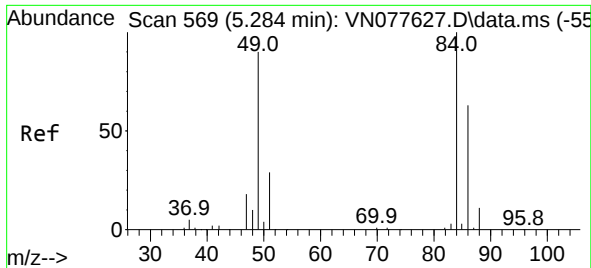
Tgt Ion: 43 Resp: 6649

Ion Ratio Lower Upper

43 100

74 28.1 26.2 39.4

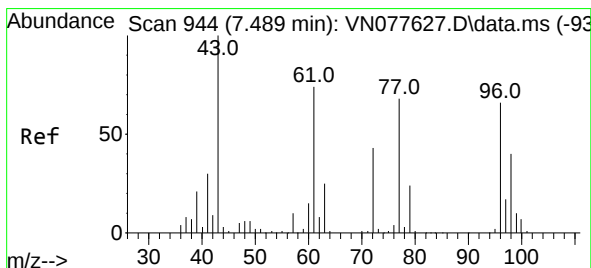
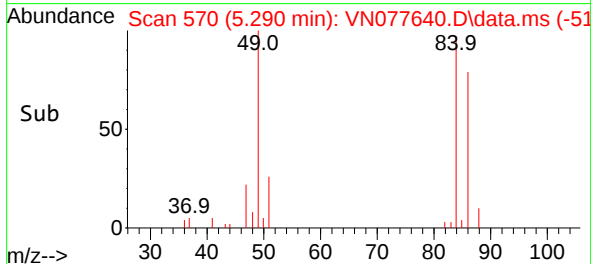
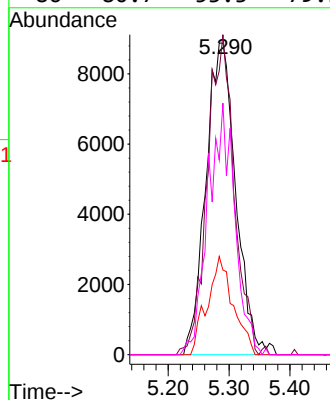
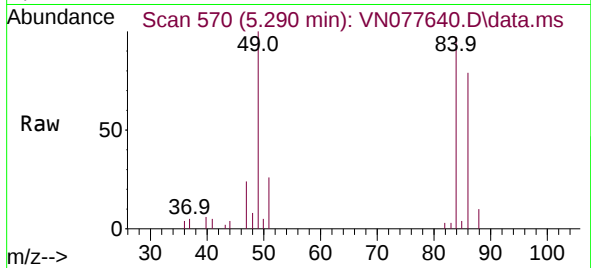




#20
Methylene Chloride
Concen: 4.475 ug/l
RT: 5.290 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

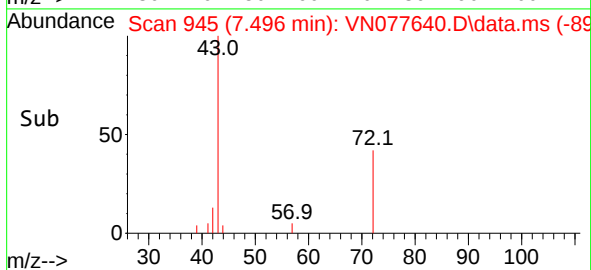
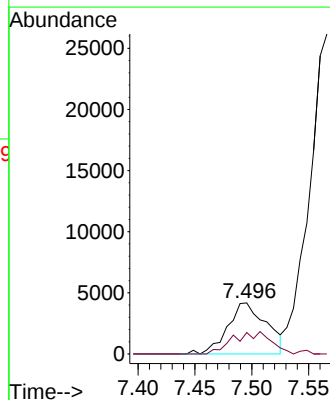
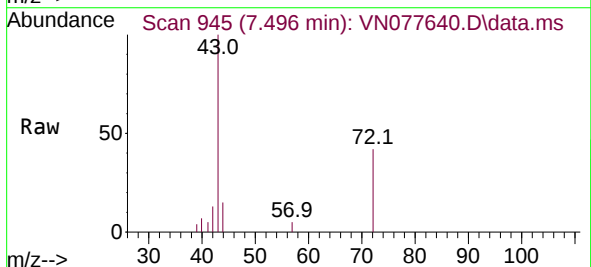
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#06

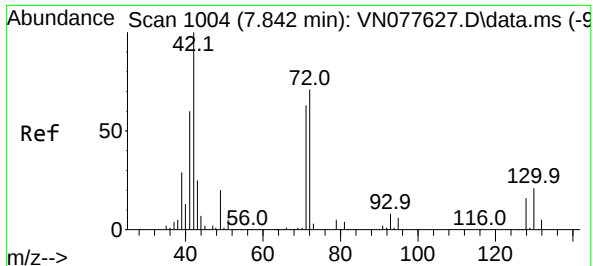
Tgt Ion:	84	Resp:	30491
Ion	Ratio	Lower	Upper
84	100		
49	102.7	79.7	119.5
51	27.1	25.2	37.8
86	80.7	53.3	79.9



#25
2-Butanone
Concen: 4.116 ug/l
RT: 7.496 min Scan# 945
Delta R.T. 0.007 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Tgt Ion:	43	Resp:	9891
Ion	Ratio	Lower	Upper
43	100		
72	41.9	30.2	45.2





#29

Tetrahydrofuran

Concen: 0.579 ug/l

RT: 7.854 min Scan# 10

Delta R.T. 0.012 min

Lab File: VN077640.D

Acq: 09 May 2023 18:32

Instrument :

MSVOA_N

ClientSampleId :

PB152652ZHE#06

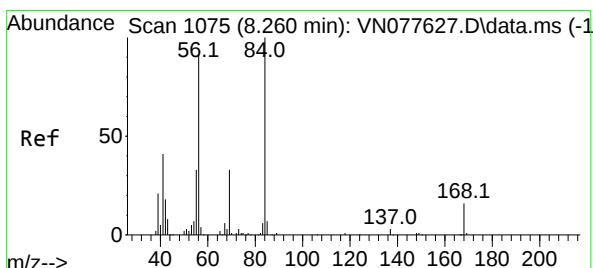
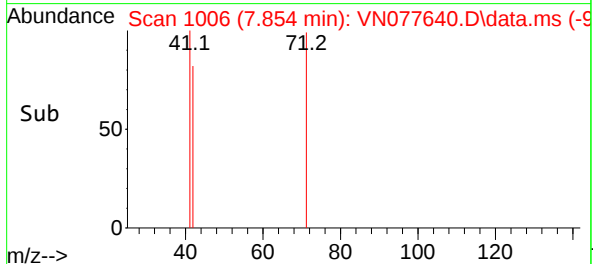
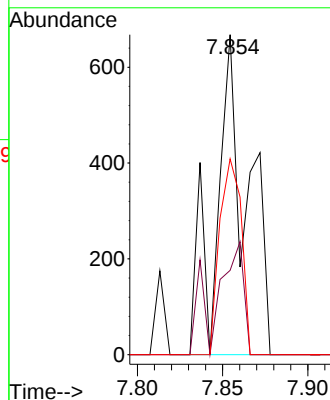
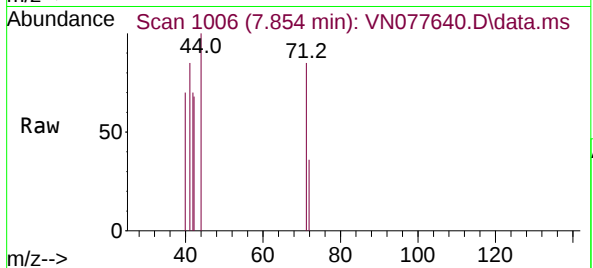
Tgt Ion: 42 Resp: 855

Ion Ratio Lower Upper

42 100

72 23.5 49.8 74.6#

71 42.2 47.4 71.2#



#31

Cyclohexane

Concen: 1.300 ug/l

RT: 8.231 min Scan# 1070

Delta R.T. -0.029 min

Lab File: VN077640.D

Acq: 09 May 2023 18:32

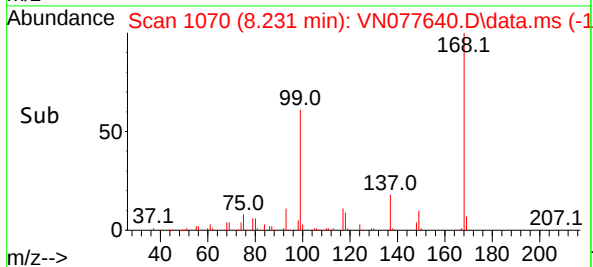
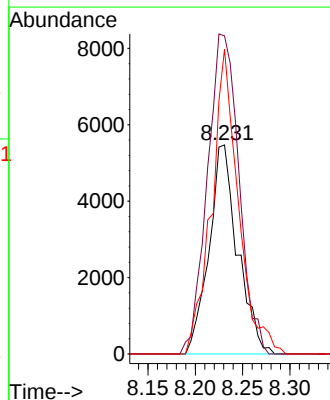
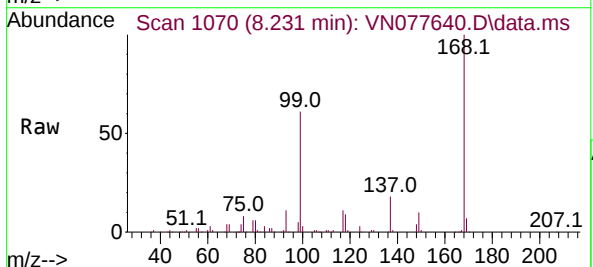
Tgt Ion: 56 Resp: 11504

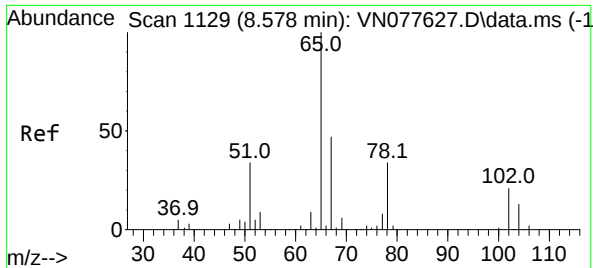
Ion Ratio Lower Upper

56 100

69 152.3 26.8 40.2#

84 146.0 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 48.394 ug/l

RT: 8.584 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VN077640.D

Acq: 09 May 2023 18:32

Instrument :

MSVOA_N

ClientSampleId :

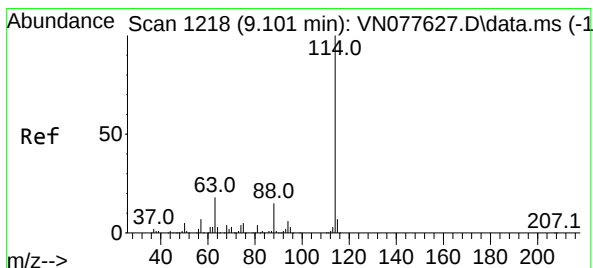
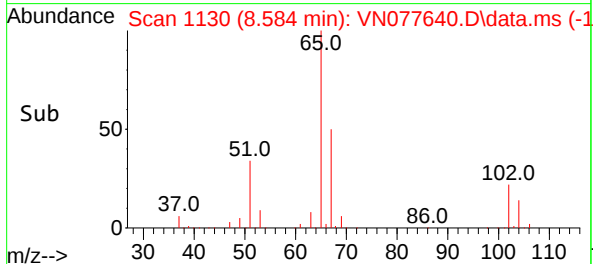
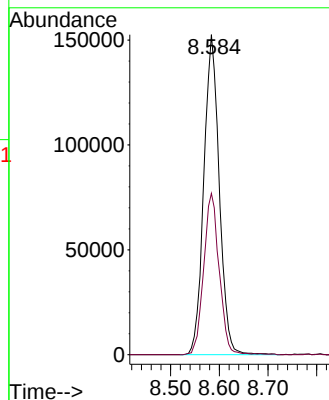
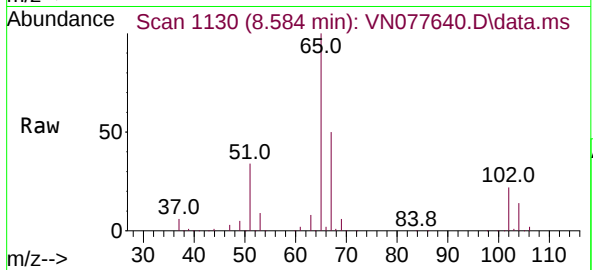
PB152652ZHE#06

Tgt Ion: 65 Resp: 335067

Ion Ratio Lower Upper

65 100

67 50.4 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.006 min

Lab File: VN077640.D

Acq: 09 May 2023 18:32

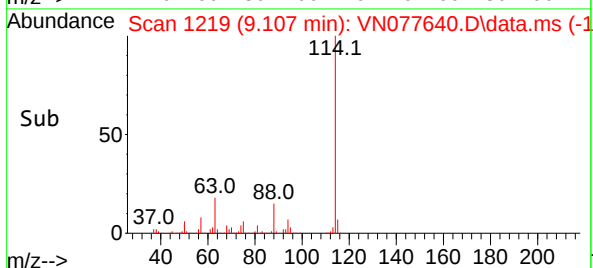
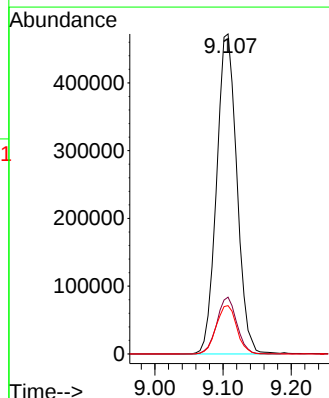
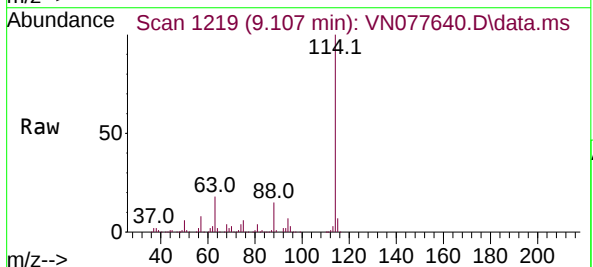
Tgt Ion: 114 Resp: 977923

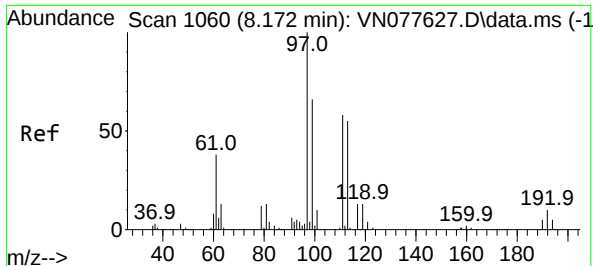
Ion Ratio Lower Upper

114 100

63 17.7 0.0 36.4

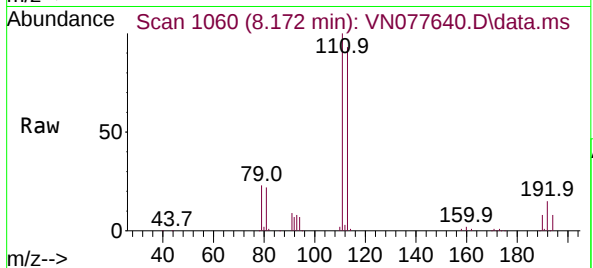
88 15.1 0.0 30.6



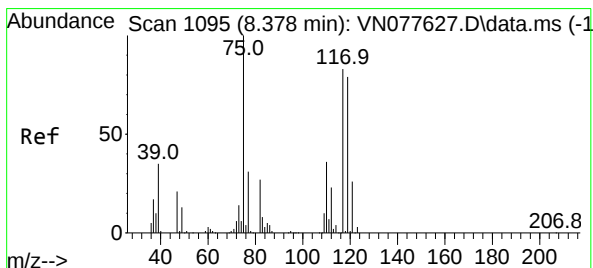
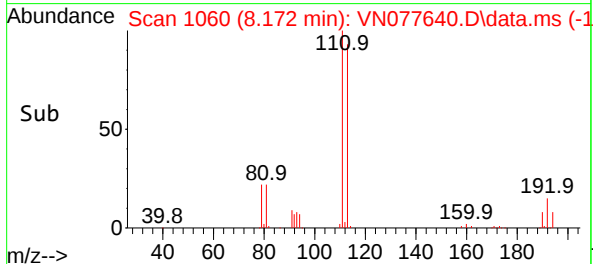
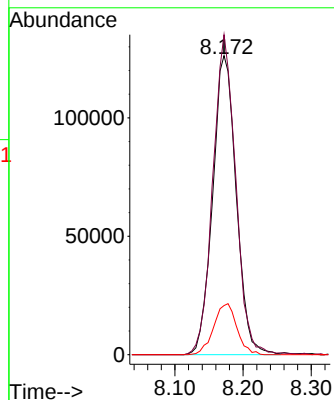


#35
Dibromofluoromethane
Concen: 49.775 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#06

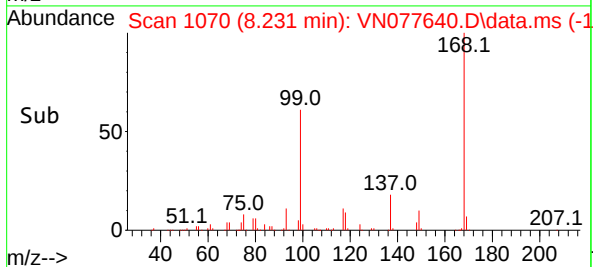
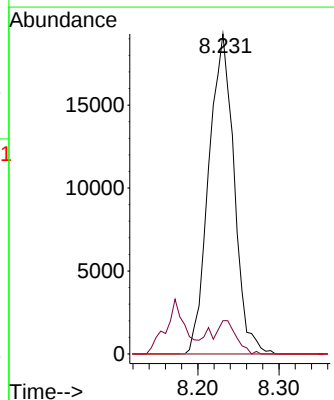
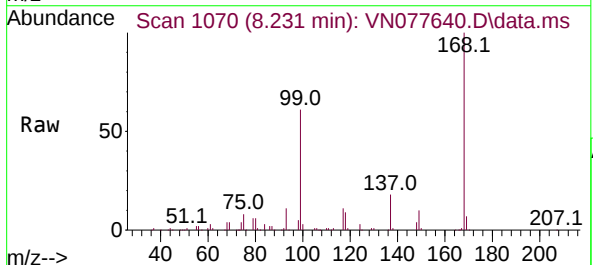


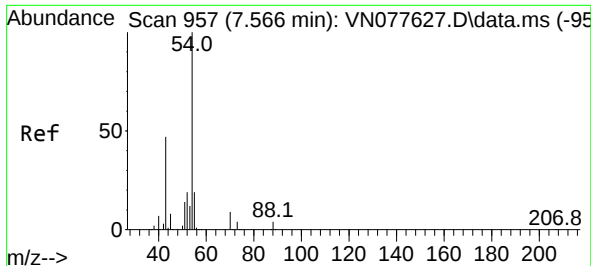
Tgt Ion:113 Resp: 303580
Ion Ratio Lower Upper
113 100
111 103.9 82.6 123.8
192 16.8 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.961 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Tgt Ion: 75 Resp: 41760
Ion Ratio Lower Upper
75 100
110 10.5 19.1 57.3#
77 0.0 25.0 37.4#

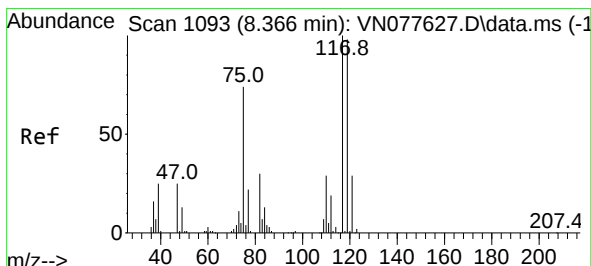
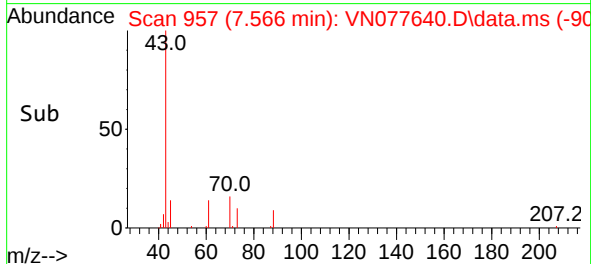
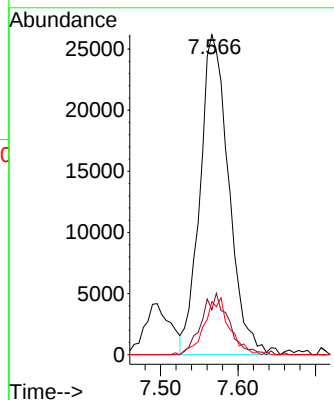
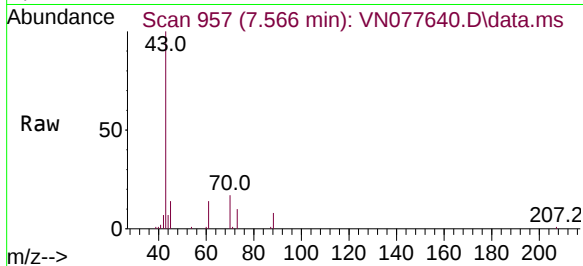




#37
Ethyl Acetate
Concen: 14.044 ug/l
RT: 7.566 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

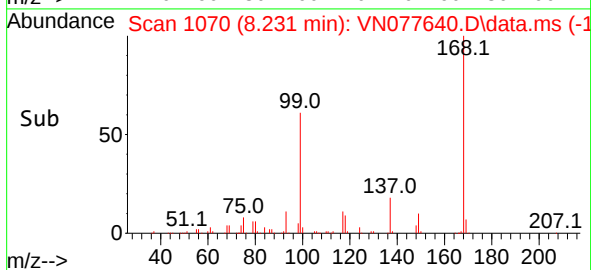
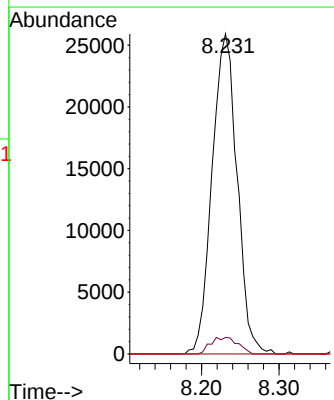
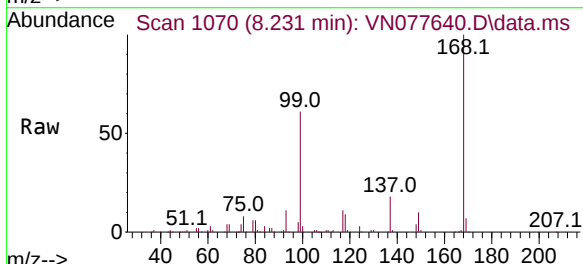
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#06

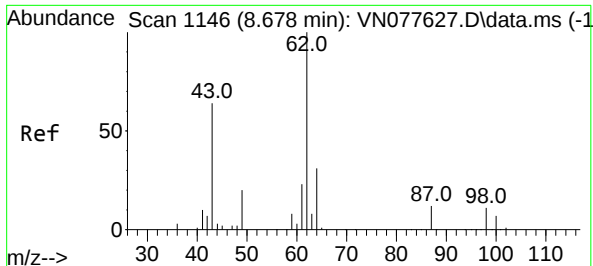
Tgt Ion: 43 Resp: 67592
Ion Ratio Lower Upper
43 100
61 17.9 13.2 19.8
70 15.6 11.3 16.9



#38
Carbon Tetrachloride
Concen: 6.316 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.135 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Tgt Ion: 117 Resp: 58076
Ion Ratio Lower Upper
117 100
119 5.2 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.332 ug/l

RT: 8.684 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN077640.D

Acq: 09 May 2023 18:32

Instrument :

MSVOA_N

ClientSampleId :

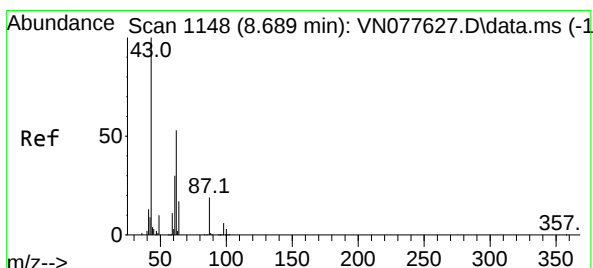
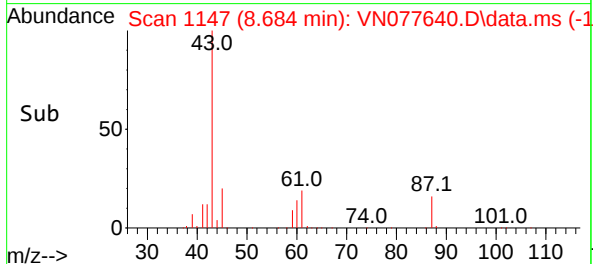
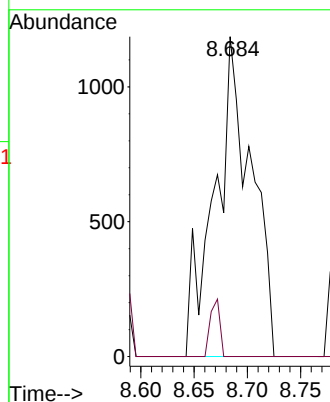
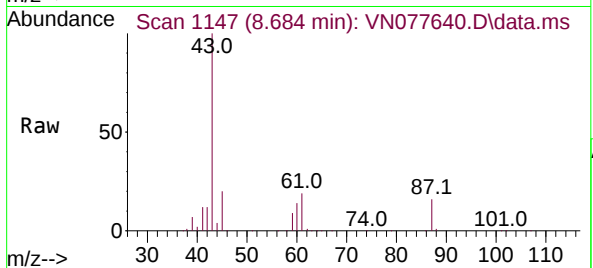
PB152652ZHE#06

Tgt Ion: 62 Resp: 2834

Ion Ratio Lower Upper

62 100

98 4.7 0.0 19.8



#43

Isopropyl Acetate

Concen: 54.536 ug/l

RT: 8.690 min Scan# 1148

Delta R.T. 0.001 min

Lab File: VN077640.D

Acq: 09 May 2023 18:32

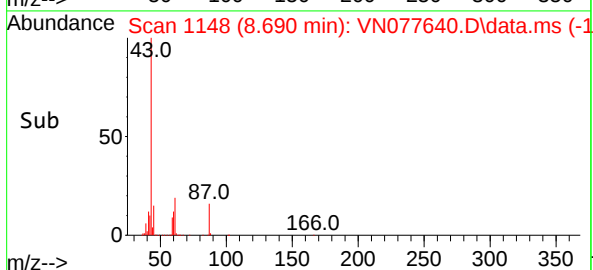
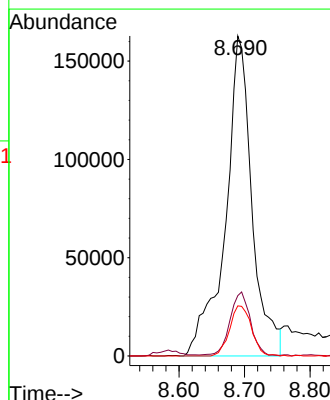
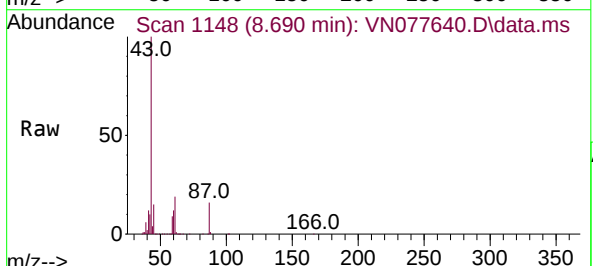
Tgt Ion: 43 Resp: 460186

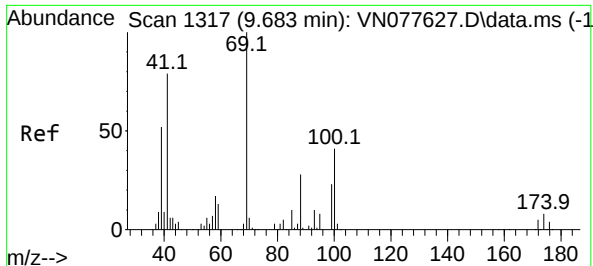
Ion Ratio Lower Upper

43 100

61 15.6 24.7 37.1#

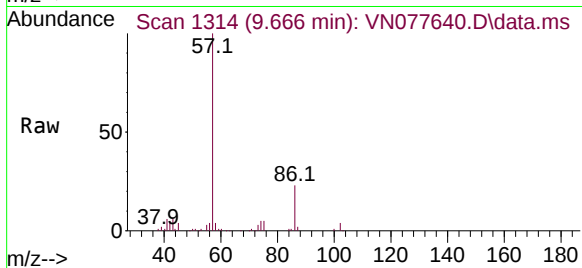
87 12.8 14.6 21.8#



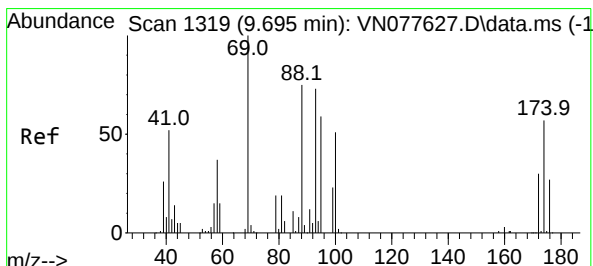
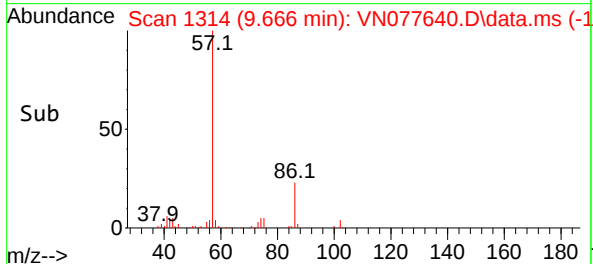
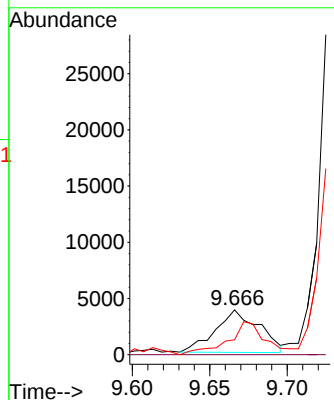


#48
Methyl methacrylate
Concen: 1.875 ug/l
RT: 9.666 min Scan# 1314
Delta R.T. -0.017 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#06

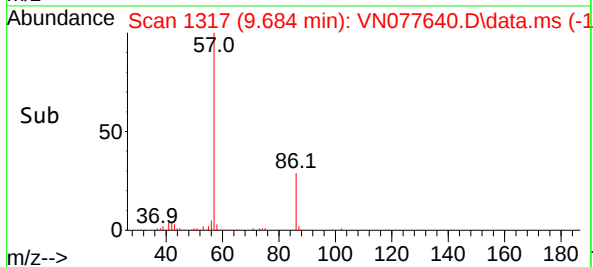
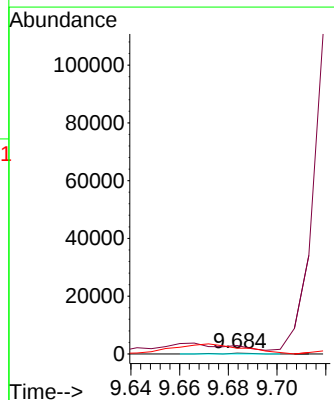
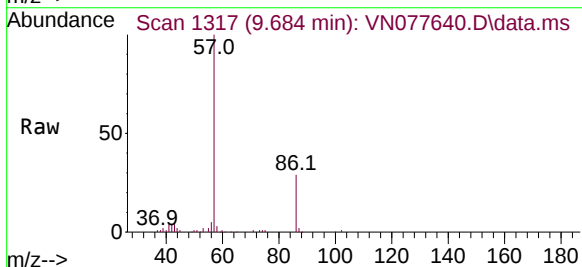


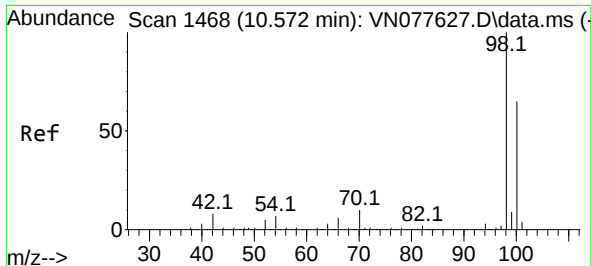
Tgt Ion: 41 Resp: 7427
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 65.4 54.6 81.8



#49
1,4-Dioxane
Concen: 1.825 ug/l
RT: 9.684 min Scan# 1317
Delta R.T. -0.011 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Tgt Ion: 88 Resp: 215
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 3344.2 47.0 70.4#

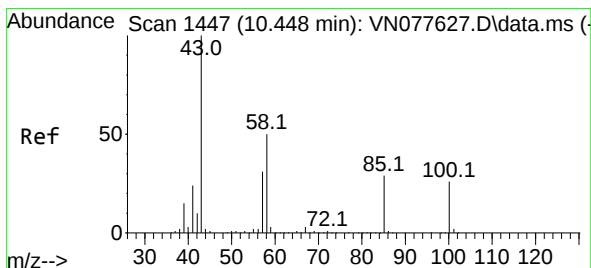
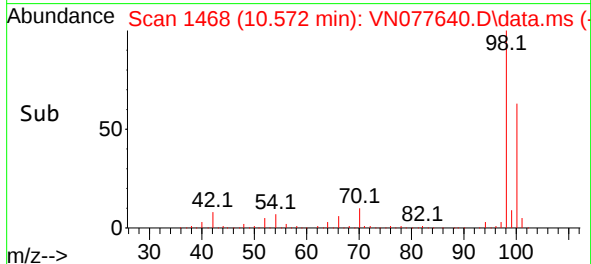
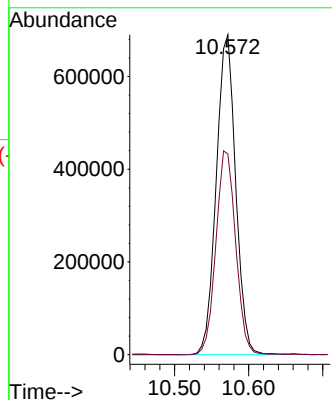
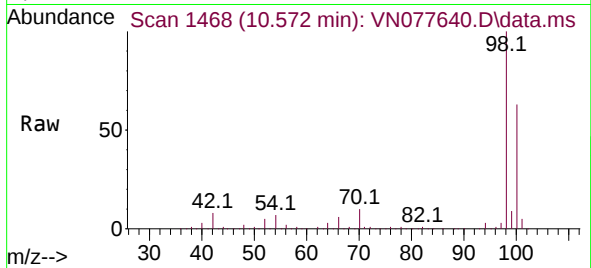




#50
Toluene-d8
Concen: 54.391 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

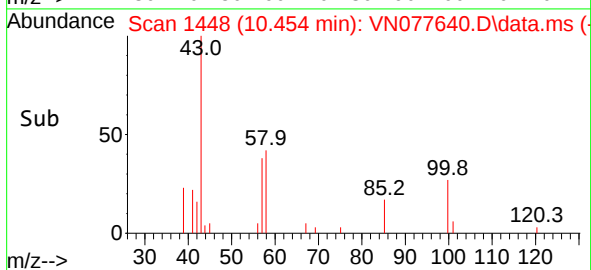
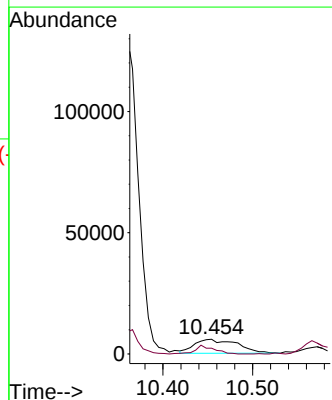
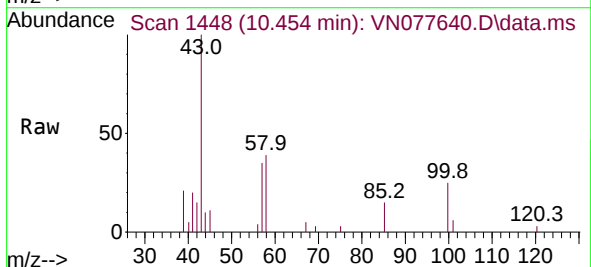
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#06

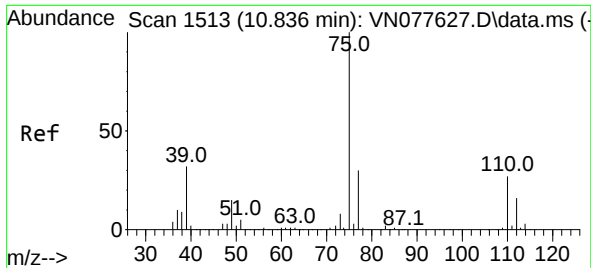
Tgt Ion: 98 Resp: 1255948
Ion Ratio Lower Upper
98 100
100 64.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 3.841 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Tgt Ion: 43 Resp: 19070
Ion Ratio Lower Upper
43 100
58 27.2 36.6 54.8#

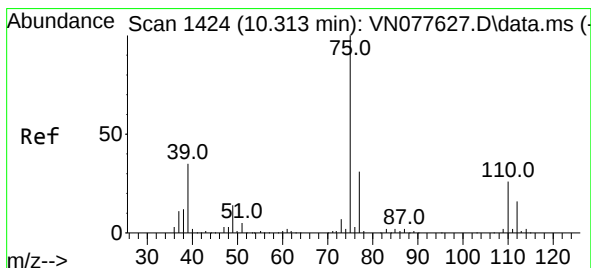
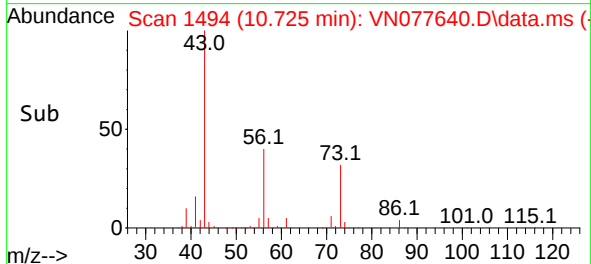
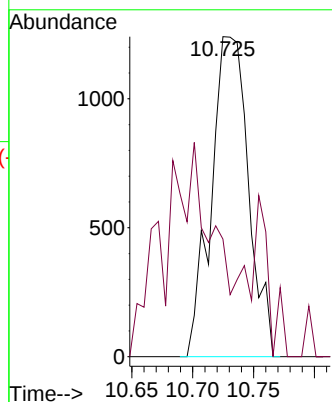
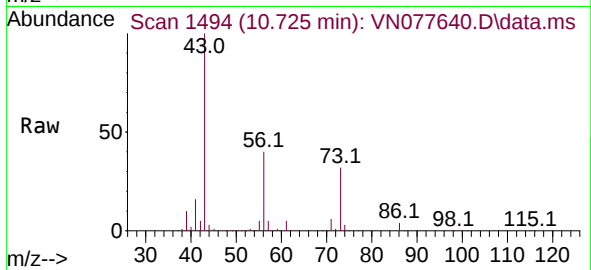




#53
 t-1,3-Dichloropropene
 Concen: 0.306 ug/l
 RT: 10.725 min Scan# 1494
 Delta R.T. -0.111 min
 Lab File: VN077640.D
 Acq: 09 May 2023 18:32

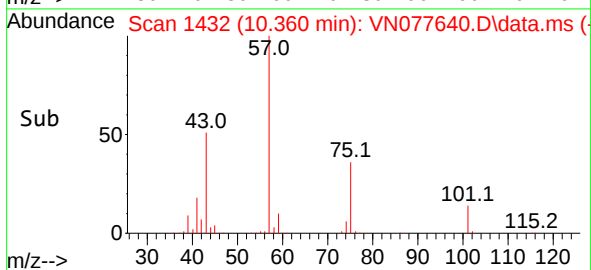
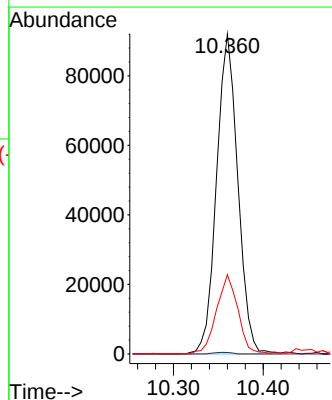
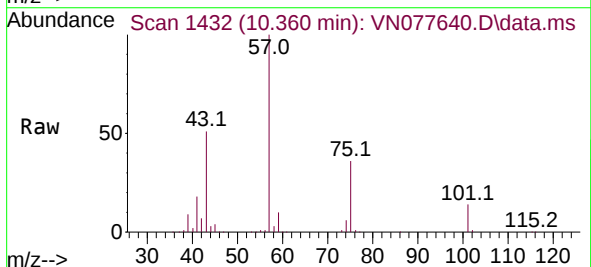
Instrument :
 MSVOA_N
 ClientSampleId :
 PB152652ZHE#06

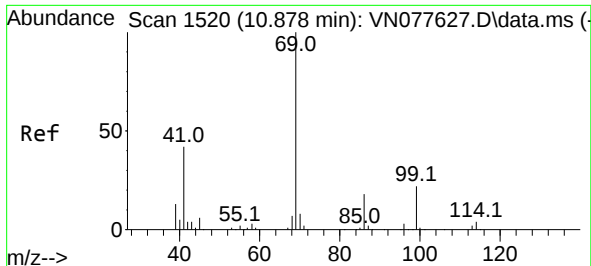
Tgt Ion: 75 Resp: 2650
 Ion Ratio Lower Upper
 75 100
 77 15.1 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 15.344 ug/l
 RT: 10.360 min Scan# 1432
 Delta R.T. 0.047 min
 Lab File: VN077640.D
 Acq: 09 May 2023 18:32

Tgt Ion: 75 Resp: 151294
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.1 39.1#
 39 24.7 31.6 47.4#

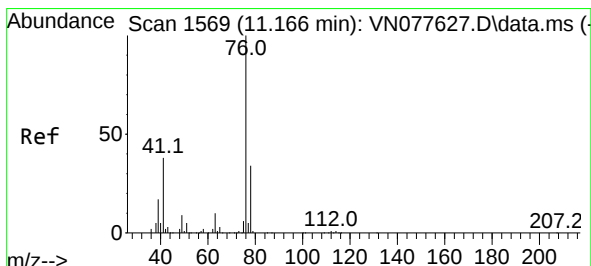
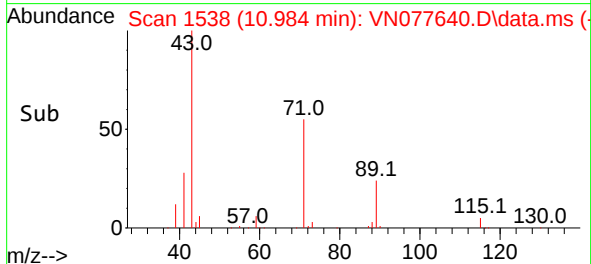
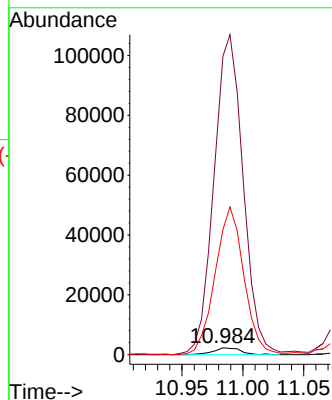
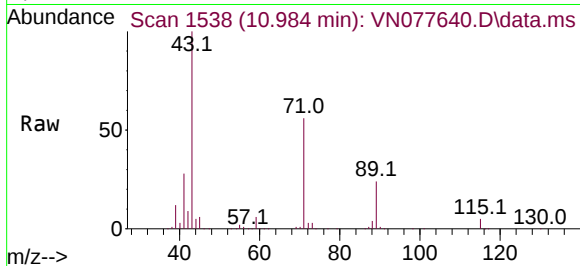




#56
Ethyl methacrylate
Concen: 0.438 ug/l
RT: 10.984 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

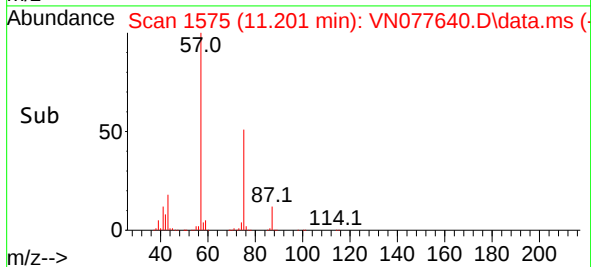
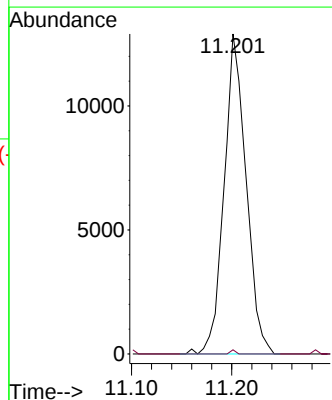
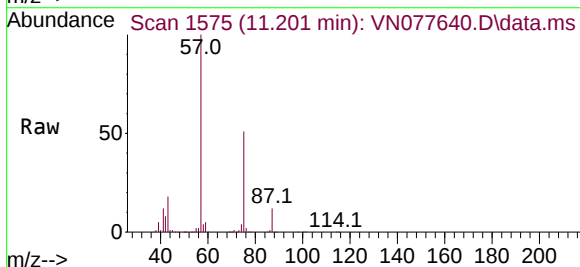
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#06

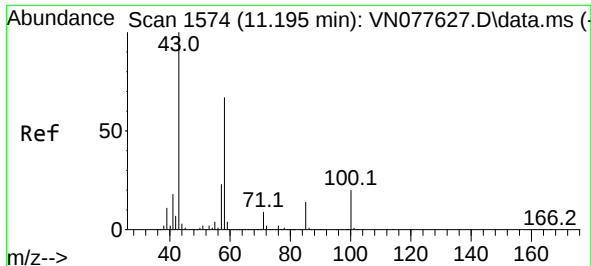
Tgt Ion: 69 Resp: 3627
Ion Ratio Lower Upper
69 100
41 4927.4 39.6 59.4#
39 2239.0 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.860 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.035 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Tgt Ion: 76 Resp: 19638
Ion Ratio Lower Upper
76 100
78 0.3 26.1 39.1#

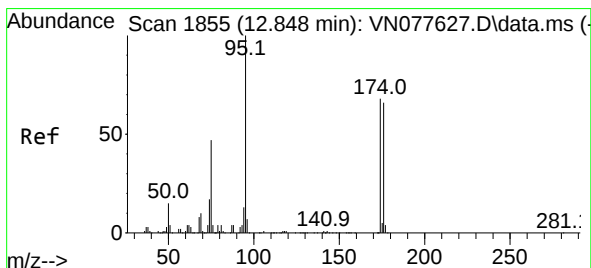
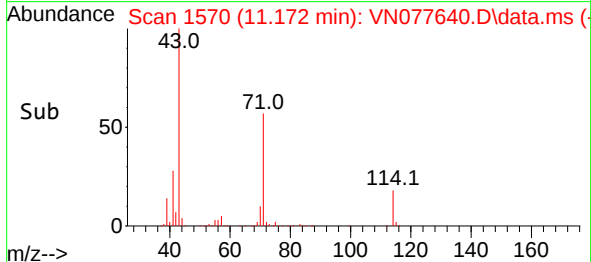
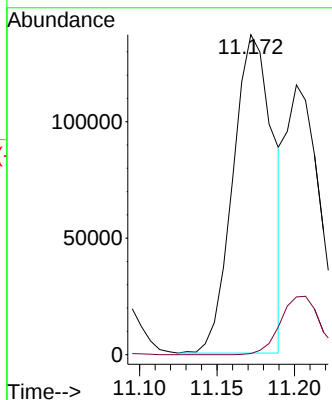
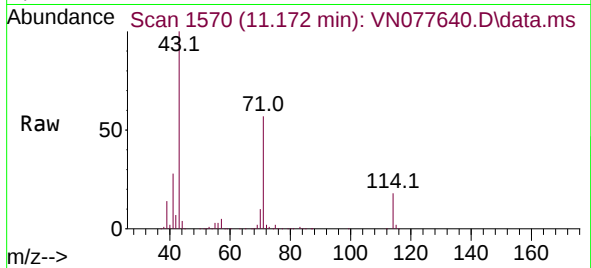




#59
2-Hexanone
Concen: 70.182 ug/l
RT: 11.172 min Scan# 111
Delta R.T. -0.023 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

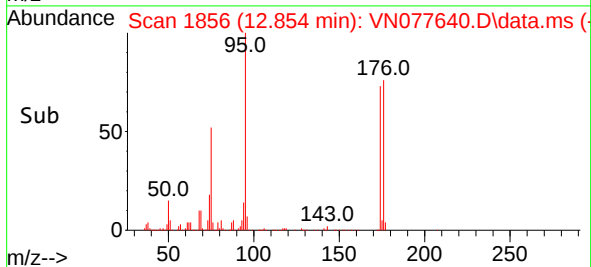
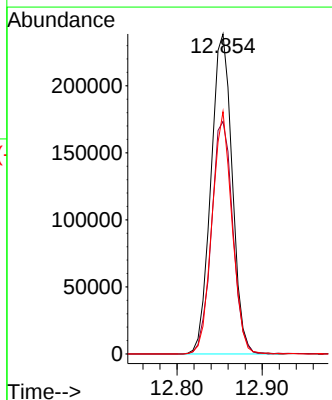
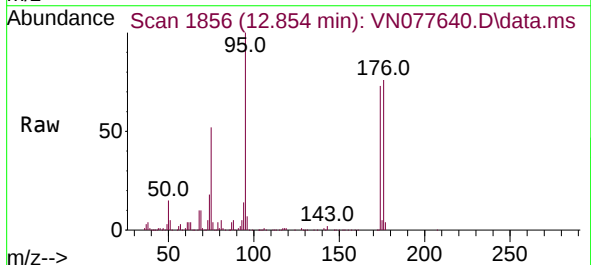
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#06

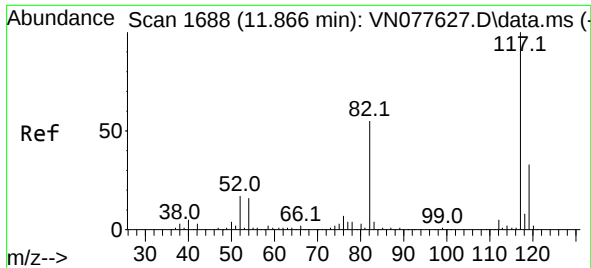
Tgt Ion: 43 Resp: 246238
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 53.005 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Tgt Ion: 95 Resp: 413972
Ion Ratio Lower Upper
95 100
174 72.8 0.0 143.8
176 71.4 0.0 135.8

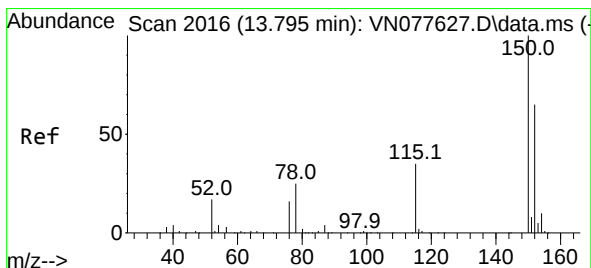
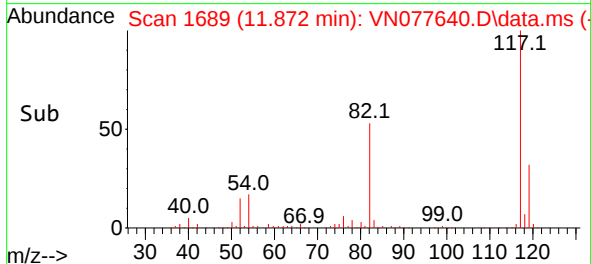
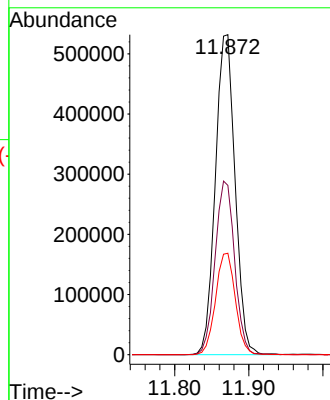
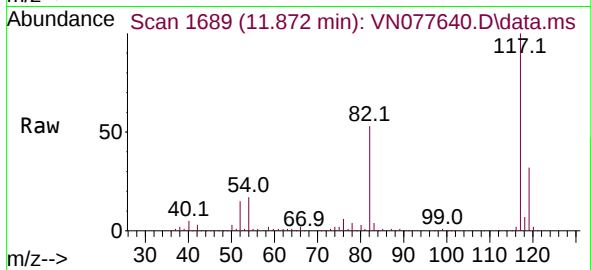




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

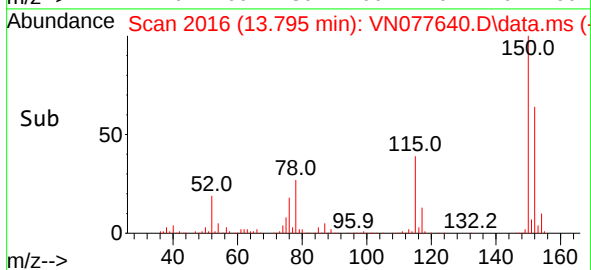
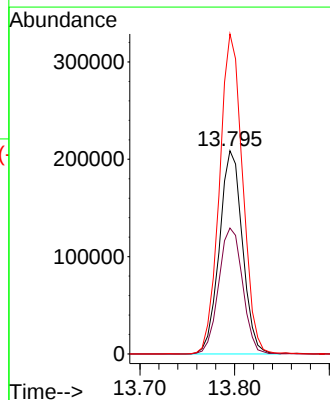
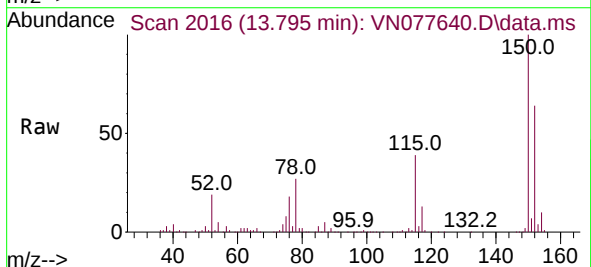
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#06

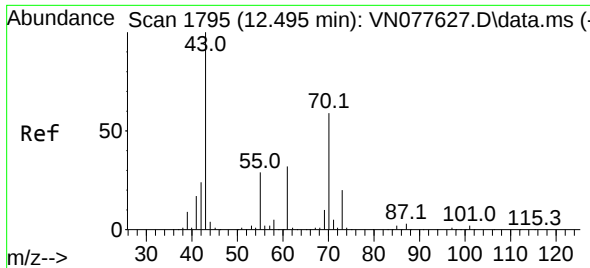
Tgt Ion:117 Resp: 982721
Ion Ratio Lower Upper
117 100
82 52.9 44.0 66.0
119 31.7 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Tgt Ion:152 Resp: 353518
Ion Ratio Lower Upper
152 100
115 64.2 32.3 96.8
150 158.1 0.0 355.8

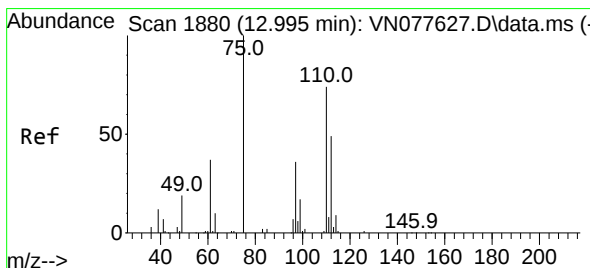
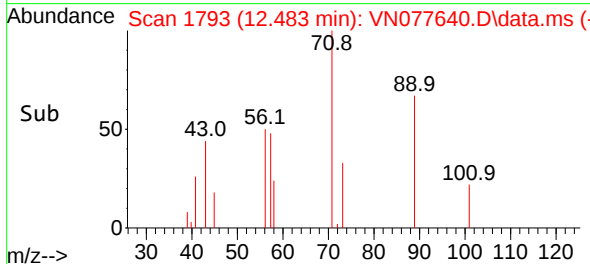
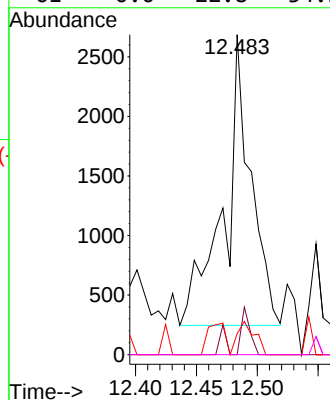
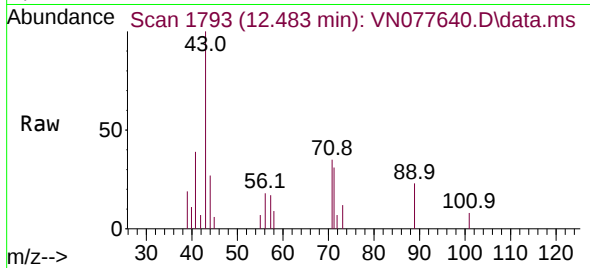




#74
N-amy1 acetate
Concen: 0.535 ug/l
RT: 12.483 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

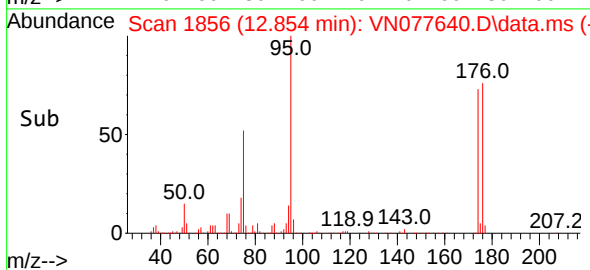
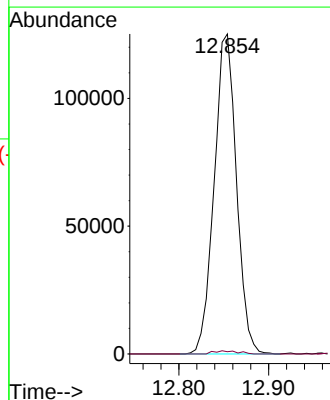
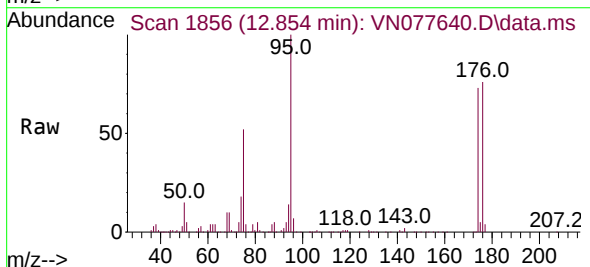
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#06

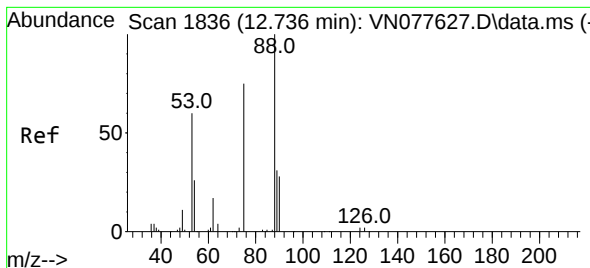
Tgt Ion: 43	Resp:	3723	
Ion	Ratio	Lower	Upper
43	100		
70	5.2	43.4	65.2#
55	7.5	21.4	32.0#
61	0.0	22.8	34.2#



#76
1,2,3-Trichloropropane
Concen: 29.567 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Tgt Ion: 75	Resp: 215705
Ion Ratio	Lower Upper
75 100	
77 1.1	84.5 253.5#

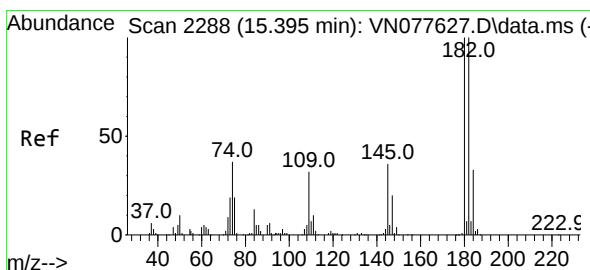
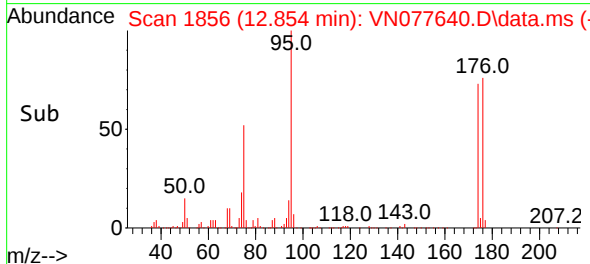
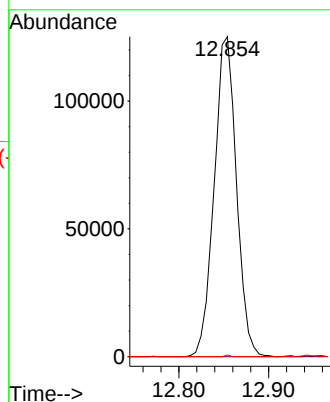
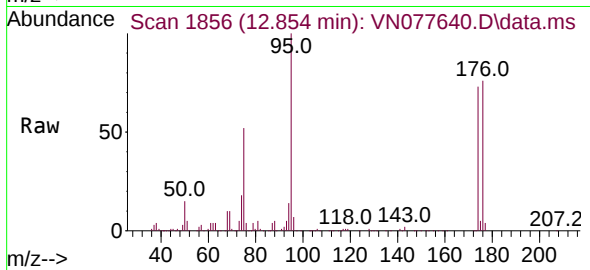




#81
trans-1,4-Dichloro-2-butene
Concen: 94.146 ug/l
RT: 12.854 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

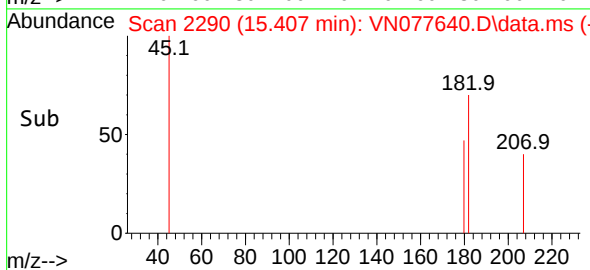
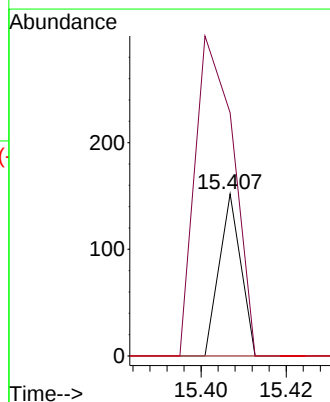
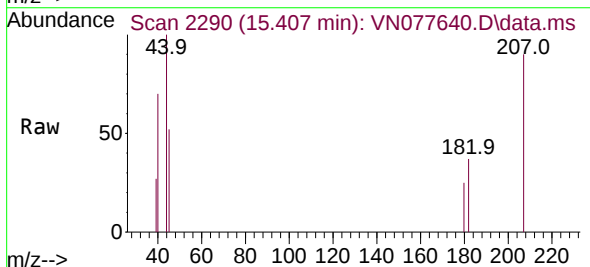
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#06

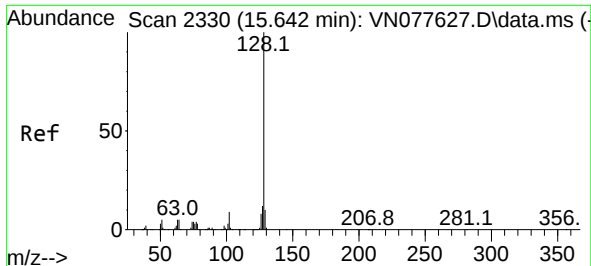
Tgt Ion: 75 Resp: 215705
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#



#93
1,2,4-Trichlorobenzene
Concen: 4.591 ug/l
RT: 15.407 min Scan# 2290
Delta R.T. 0.012 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Tgt Ion:180 Resp: 54
Ion Ratio Lower Upper
180 100
182 344.4 46.1 138.2#
145 0.0 16.6 49.8#

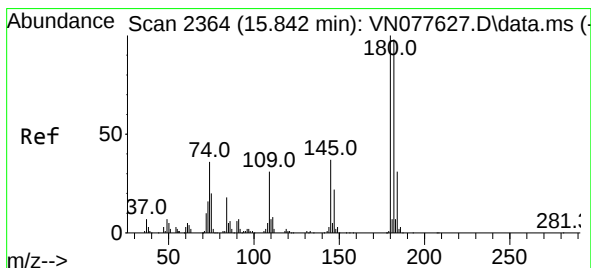
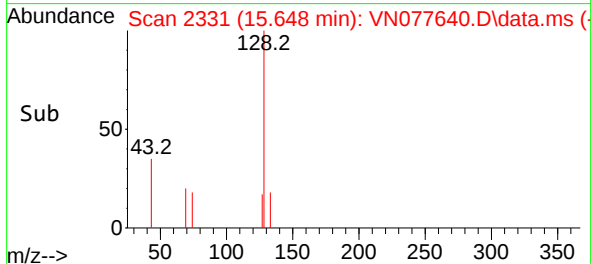
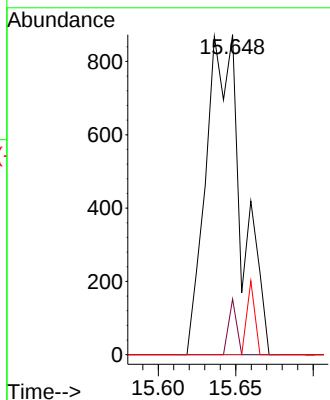
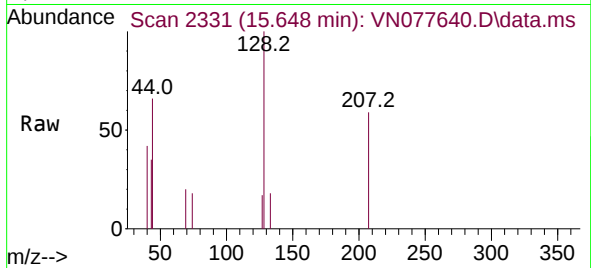




#95
Naphthalene
Concen: 4.809 ug/l
RT: 15.648 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#06

Tgt Ion:128 Resp: 1387
Ion Ratio Lower Upper
128 100
127 3.9 10.0 15.0#
129 5.1 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 4.517 ug/l
RT: 15.836 min Scan# 2363
Delta R.T. -0.006 min
Lab File: VN077640.D
Acq: 09 May 2023 18:32

Tgt Ion:180 Resp: 92
Ion Ratio Lower Upper
180 100
182 0.0 46.2 138.6#
145 0.0 17.5 52.6#

