

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082223\
 Data File : VY015277.D
 Acq On : 23 Aug 2023 04:33
 Operator : SY/MD
 Sample : 04109-08
 Misc : 6.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 DUP-1

Quant Time: Aug 23 05:01:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

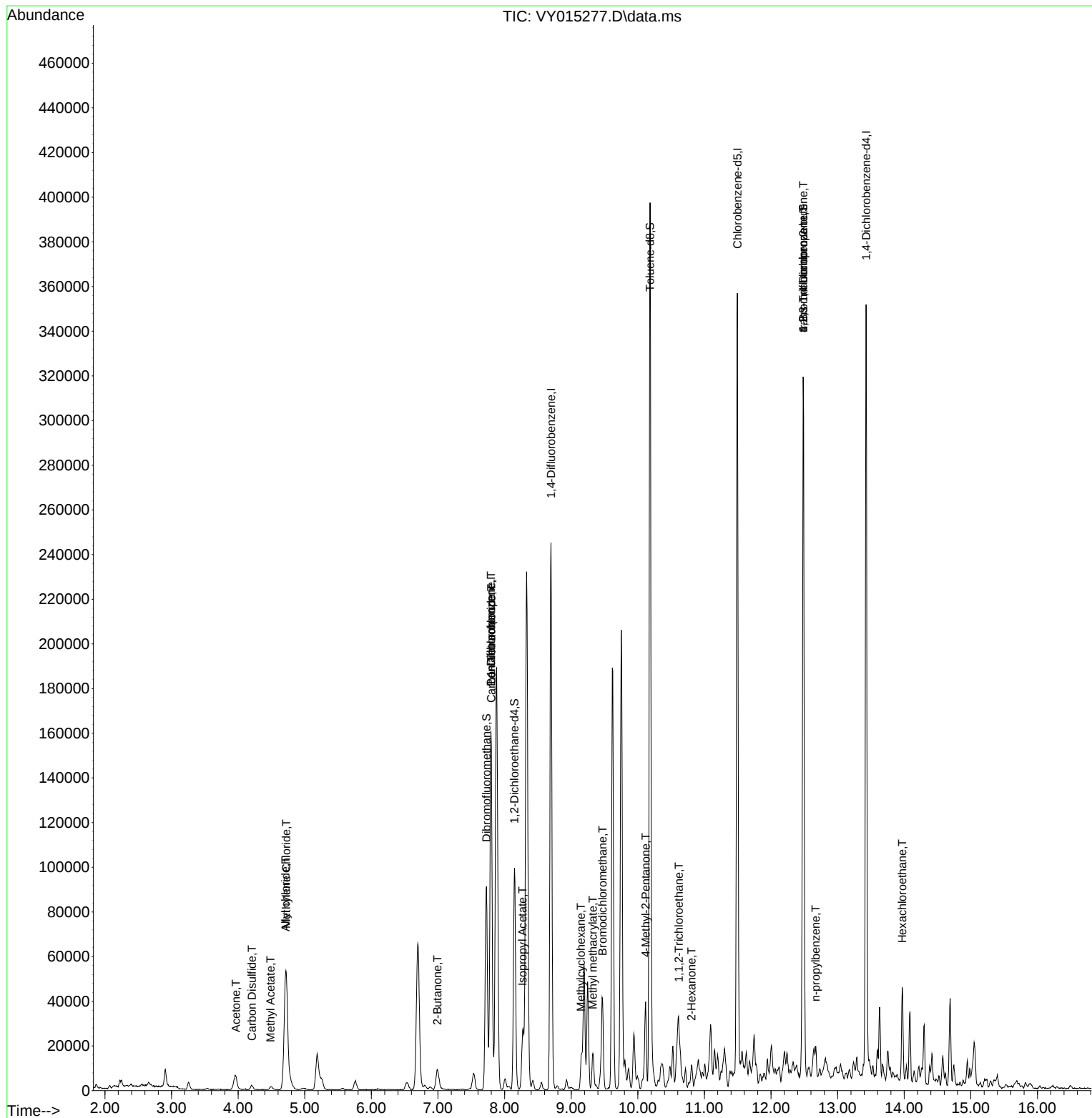
Internal Standards						
1) Pentafluorobenzene	7.795	168	125504	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.697	114	208040	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.496	117	186758	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	86937	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	78802	52.306	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 104.620%	
35) Dibromofluoromethane	7.728	113	65283	48.777	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 97.560%	
50) Toluene-d8	10.185	98	248569	49.891	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.780%	
62) 4-Bromofluorobenzene	12.483	95	82043	45.085	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 90.160%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.107	50	333	Below Cal	#	43
11) Tert butyl alcohol	4.960	59	603	Below Cal	#	89
13) Acrolein	3.741	56	19	Below Cal	#	14
14) Allyl chloride	4.710	41	18058	11.663	ug/l #	59
16) Acetone	3.966	43	9168	18.628	ug/l	96
17) Carbon Disulfide	4.204	76	3957	2.575	ug/l	96
18) Methyl Acetate	4.485	43	2916	1.617	ug/l	93
20) Methylene Chloride	4.722	84	16829	10.881	ug/l	86
25) 2-Butanone	6.990	43	3493	5.012	ug/l #	77
36) 1,1-Dichloropropene	7.795	75	9719	6.564	ug/l #	51
38) Carbon Tetrachloride	7.801	117	12750	7.276	ug/l #	15
39) Methylcyclohexane	9.148	83	4451	2.681	ug/l #	34
43) Isopropyl Acetate	8.270	43	14792	5.885	ug/l #	55
47) Bromodichloromethane	9.471	83	2230	1.174	ug/l #	26
48) Methyl methacrylate	9.325	41	4409	4.101	ug/l #	37
51) 4-Methyl-2-Pentanone	10.118	43	4333	2.975	ug/l #	82
55) 1,1,2-Trichloroethane	10.618	97	4967	4.103	ug/l #	21
59) 2-Hexanone	10.807	43	3832	3.554	ug/l #	33
76) 1,2,3-Trichloropropane	12.483	75	43695	41.369	ug/l #	100
78) n-propylbenzene	12.672	91	9892	1.490	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.483	75	43695	90.867	ug/l #	12
90) Hexachloroethane	13.971	117	1783	1.736	ug/l #	8

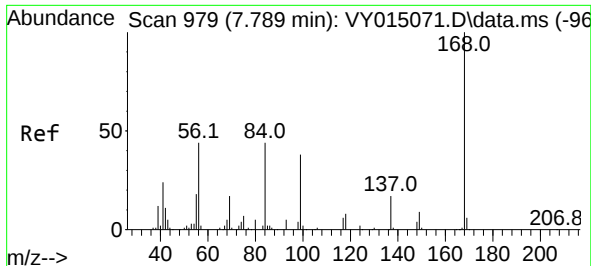
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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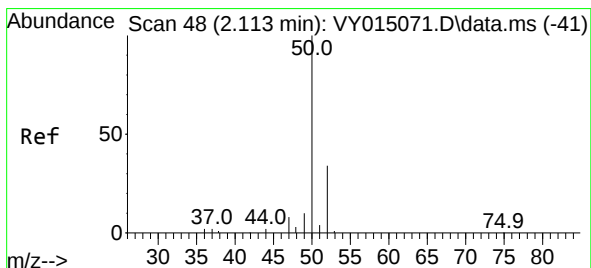
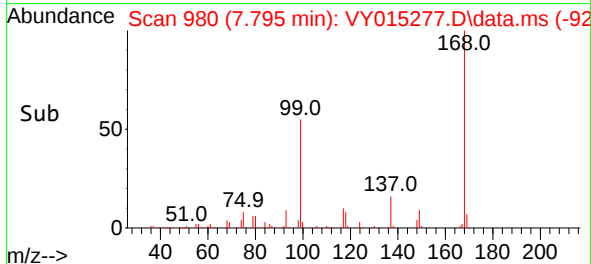
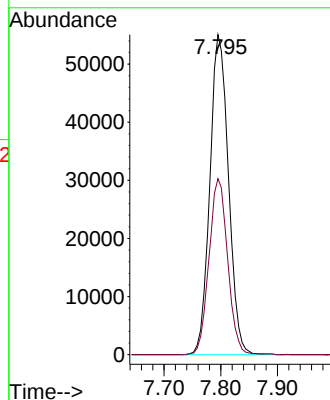
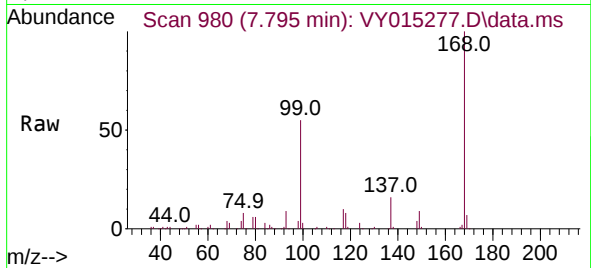




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

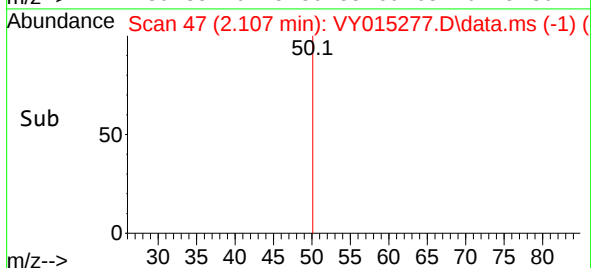
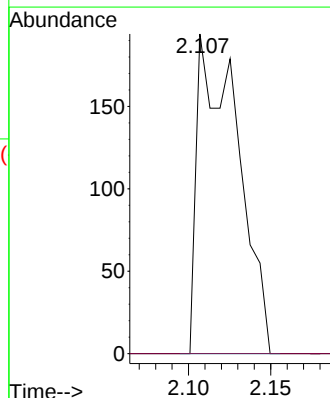
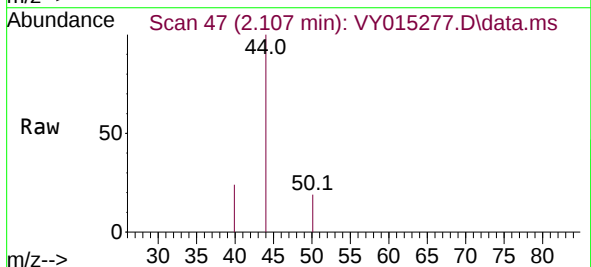
Instrument :
MSVOA_Y
ClientSampleId :
DUP-1

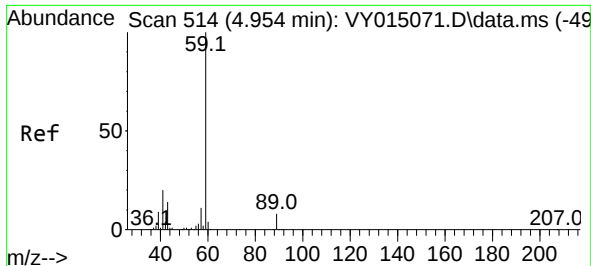
Tgt Ion:168 Resp: 125504
Ion Ratio Lower Upper
168 100
99 55.0 43.4 65.0



#3
Chloromethane
Concen: Below Cal
RT: 2.107 min Scan# 47
Delta R.T. -0.000 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

Tgt Ion: 50 Resp: 333
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#

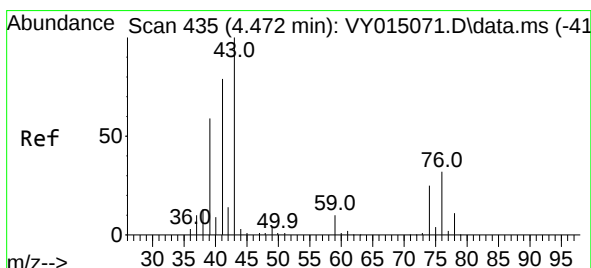
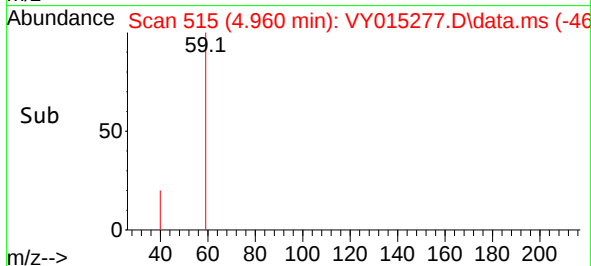
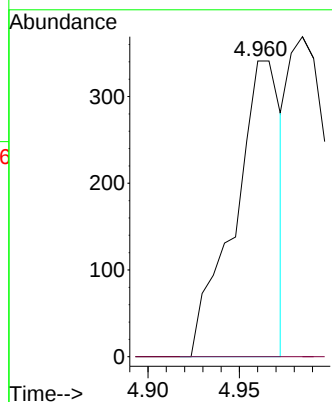
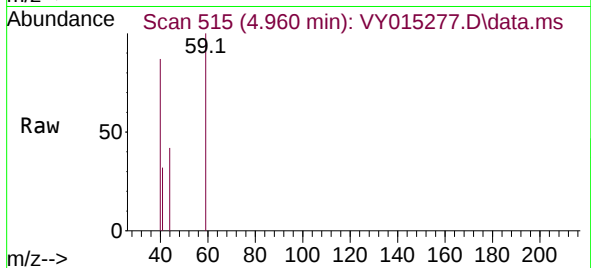




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.960 min Scan# 514
Delta R.T. 0.012 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

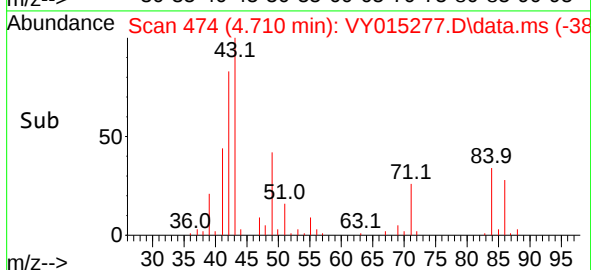
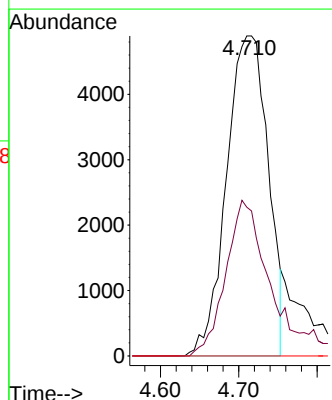
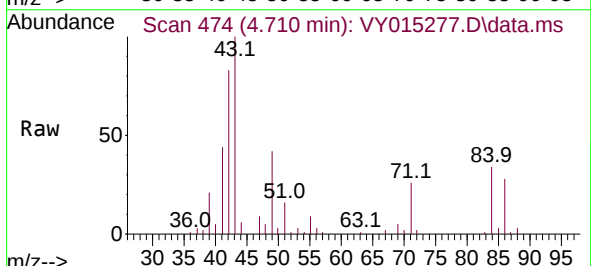
Instrument :
MSVOA_Y
ClientSampleId :
DUP-1

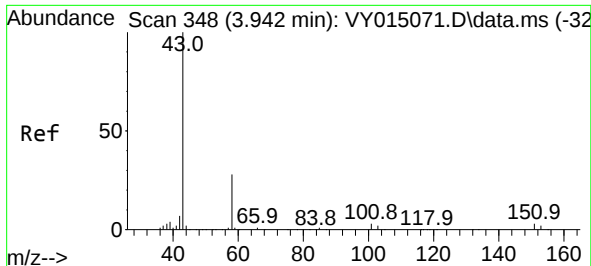
Tgt Ion: 59 Resp: 603
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#14
Allyl chloride
Concen: 11.663 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.238 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

Tgt Ion: 41 Resp: 18058
Ion Ratio Lower Upper
41 100
39 45.0 58.0 87.0#
76 0.0 27.4 41.2#

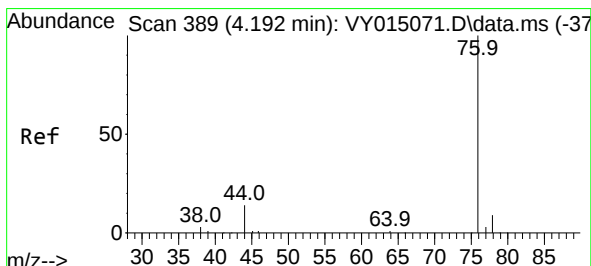
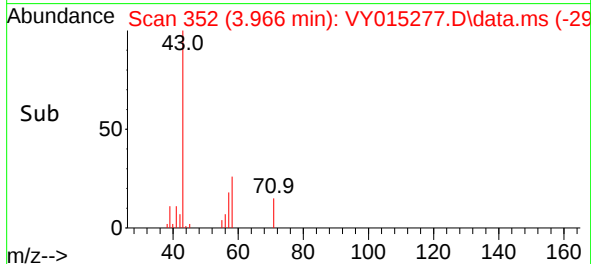
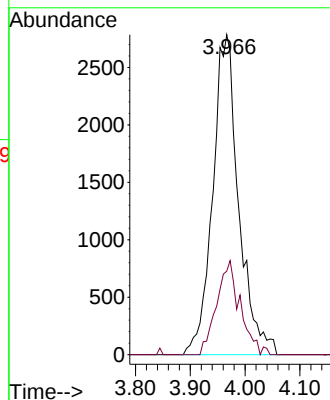
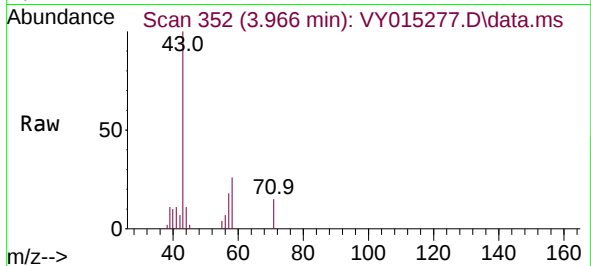




#16
Acetone
Concen: 18.628 ug/l
RT: 3.966 min Scan# 311
Delta R.T. 0.024 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

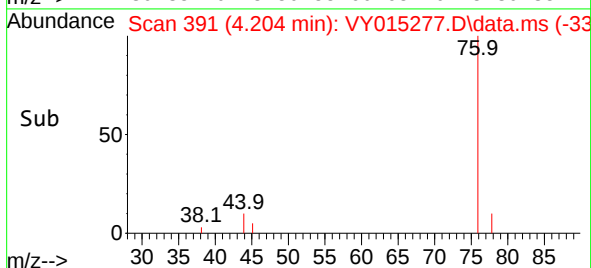
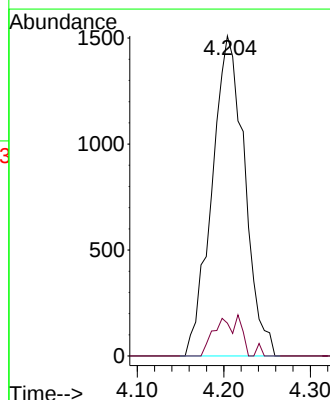
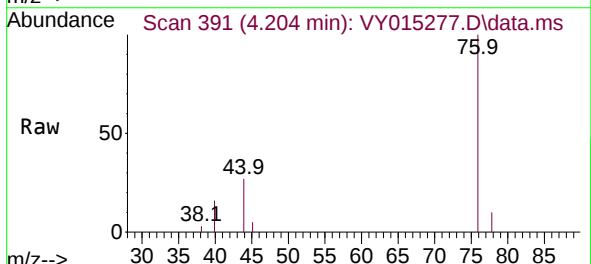
Instrument :
MSVOA_Y
ClientSampleId :
DUP-1

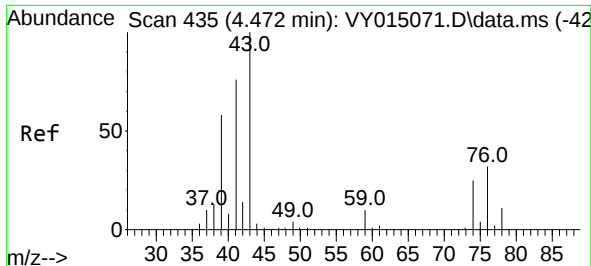
Tgt Ion: 43 Resp: 9168
Ion Ratio Lower Upper
43 100
58 26.1 22.7 34.1



#17
Carbon Disulfide
Concen: 2.575 ug/l
RT: 4.204 min Scan# 391
Delta R.T. 0.018 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

Tgt Ion: 76 Resp: 3957
Ion Ratio Lower Upper
76 100
78 10.3 7.0 10.4

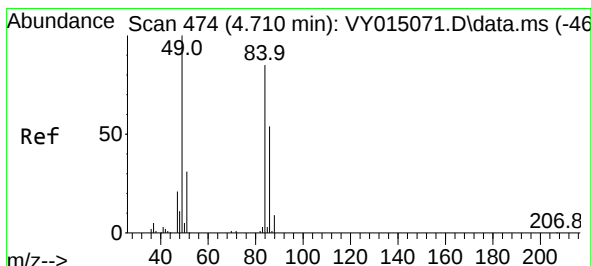
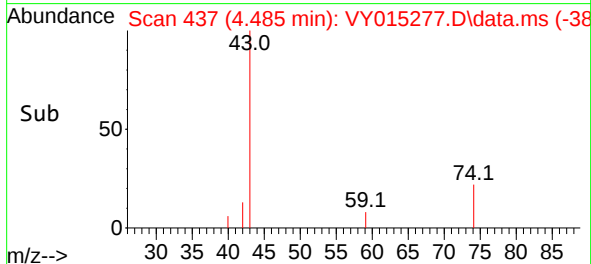
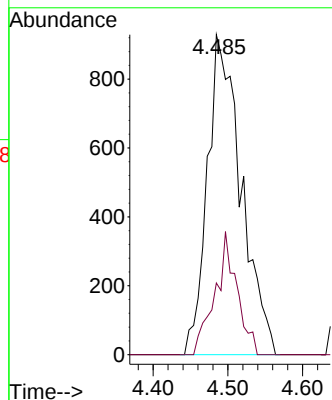
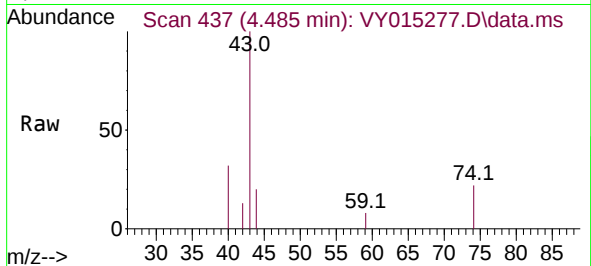




#18
Methyl Acetate
Concen: 1.617 ug/l
RT: 4.485 min Scan# 41
Delta R.T. 0.019 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

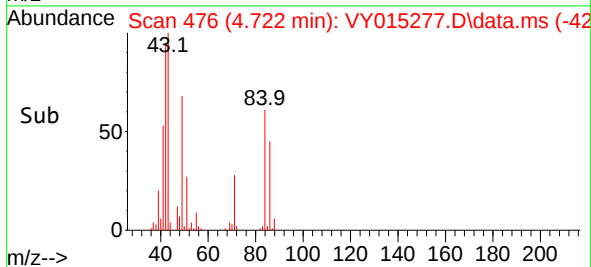
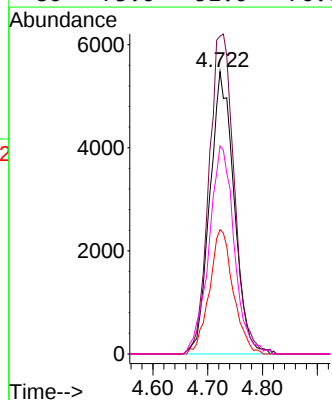
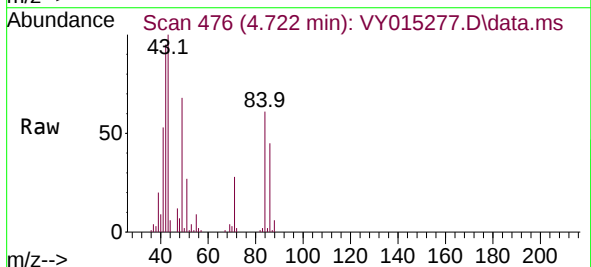
Instrument :
MSVOA_Y
ClientSampleId :
DUP-1

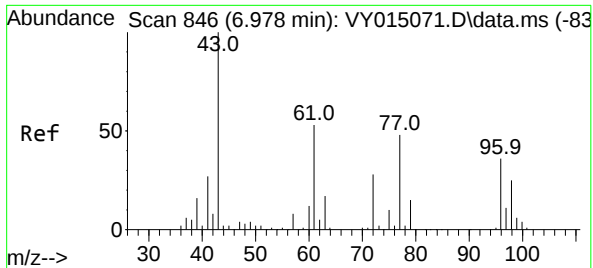
Tgt Ion: 43 Resp: 2916
Ion Ratio Lower Upper
43 100
74 25.0 17.4 26.0



#20
Methylene Chloride
Concen: 10.881 ug/l
RT: 4.722 min Scan# 476
Delta R.T. 0.012 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

Tgt Ion: 84 Resp: 16829
Ion Ratio Lower Upper
84 100
49 112.5 106.9 160.3
51 44.0 33.2 49.8
86 73.6 51.0 76.6





#25

2-Butanone

Concen: 5.012 ug/l

RT: 6.990 min Scan# 846

Delta R.T. 0.012 min

Lab File: VY015277.D

Acq: 23 Aug 2023 04:33

Instrument :

MSVOA_Y

ClientSampleId :

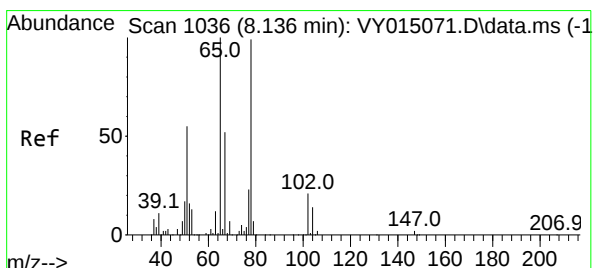
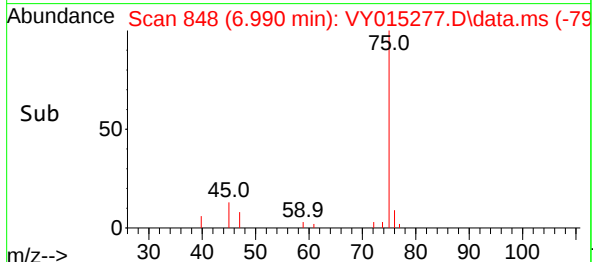
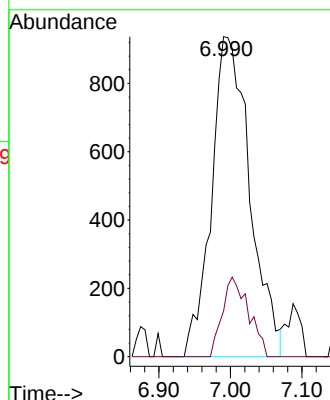
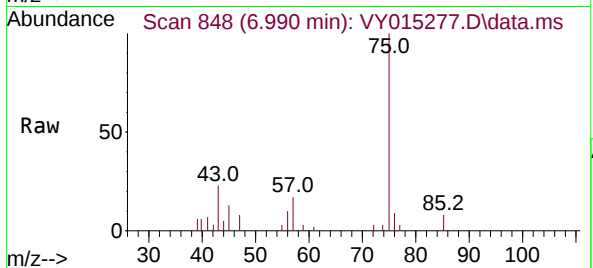
DUP-1

Tgt Ion: 43 Resp: 3493

Ion Ratio Lower Upper

43 100

72 14.2 20.5 30.7#



#33

1,2-Dichloroethane-d4

Concen: 52.306 ug/l

RT: 8.149 min Scan# 1038

Delta R.T. 0.012 min

Lab File: VY015277.D

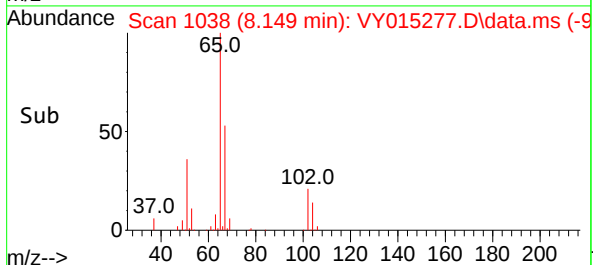
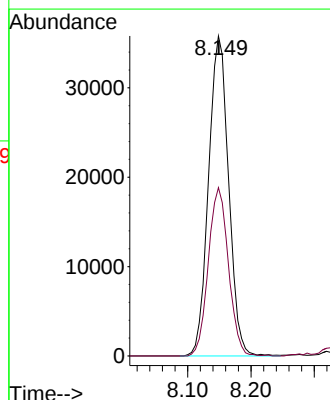
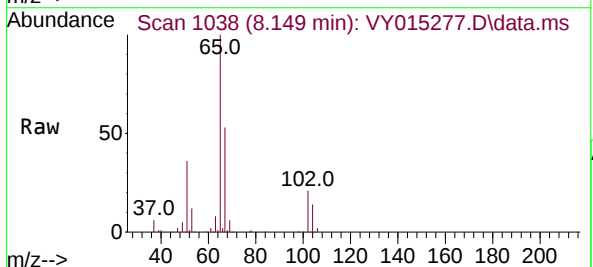
Acq: 23 Aug 2023 04:33

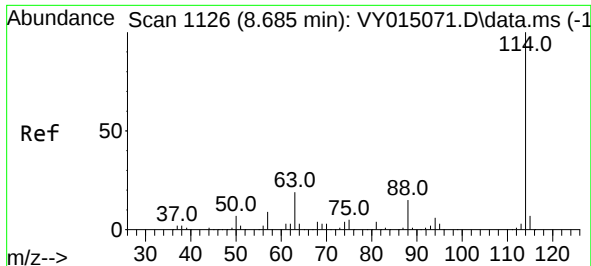
Tgt Ion: 65 Resp: 78802

Ion Ratio Lower Upper

65 100

67 52.8 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.012 min

Lab File: VY015277.D

Acq: 23 Aug 2023 04:33

Instrument :

MSVOA_Y

ClientSampleId :

DUP-1

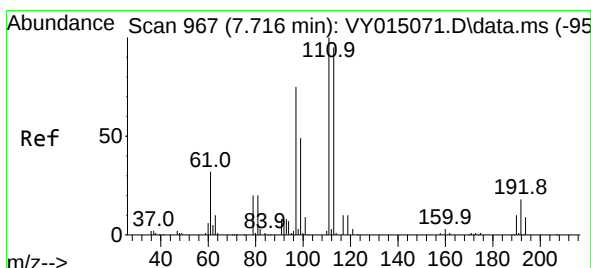
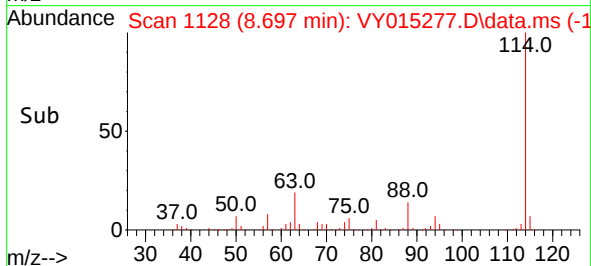
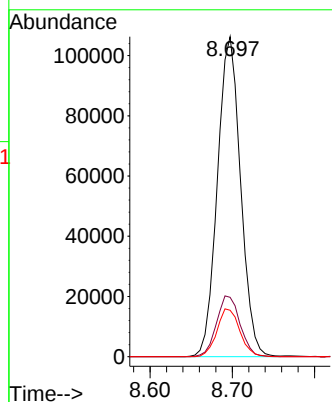
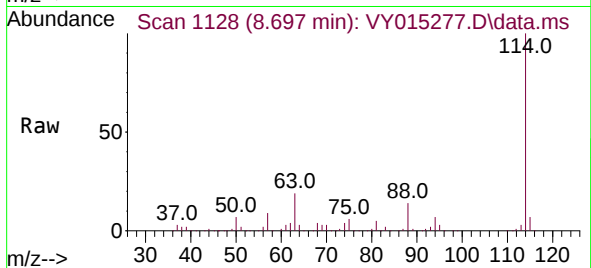
Tgt Ion:114 Resp: 208040

Ion Ratio Lower Upper

114 100

63 18.6 0.0 42.4

88 14.5 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.777 ug/l

RT: 7.728 min Scan# 969

Delta R.T. 0.012 min

Lab File: VY015277.D

Acq: 23 Aug 2023 04:33

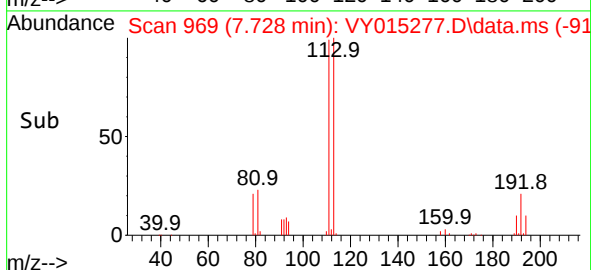
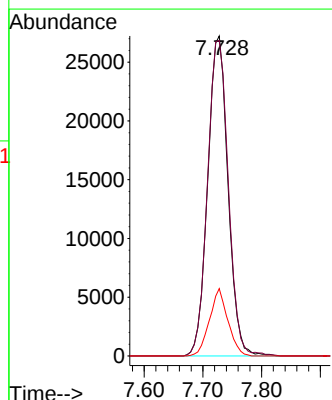
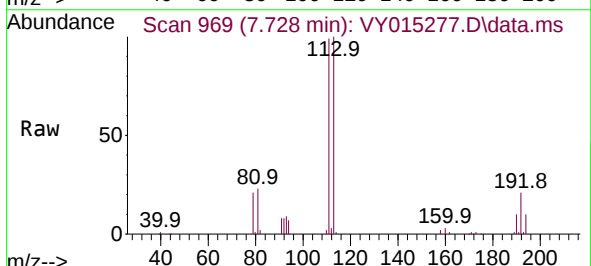
Tgt Ion:113 Resp: 65283

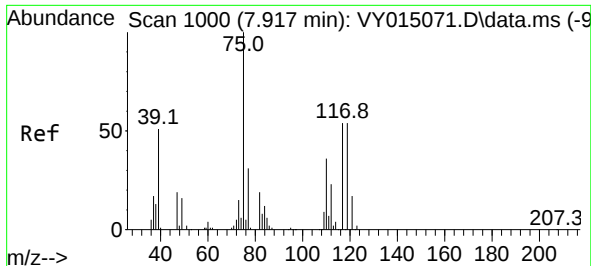
Ion Ratio Lower Upper

113 100

111 101.4 81.3 121.9

192 19.1 16.9 25.3





#36

1,1-Dichloropropene

Concen: 6.564 ug/l

RT: 7.795 min Scan# 91

Delta R.T. -0.116 min

Lab File: VY015277.D

Acq: 23 Aug 2023 04:33

Instrument :

MSVOA_Y

ClientSampleId :

DUP-1

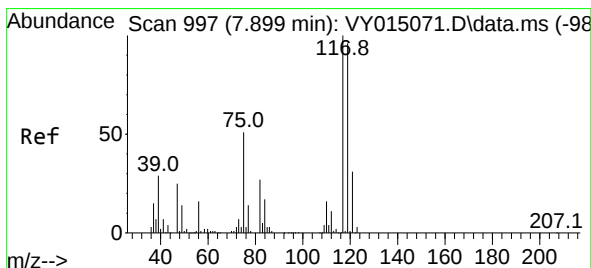
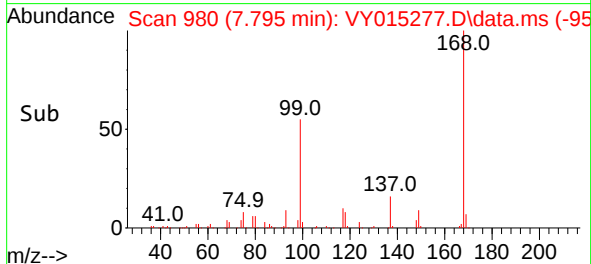
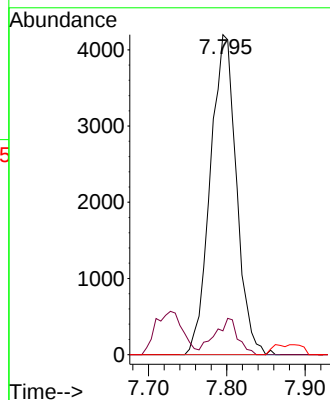
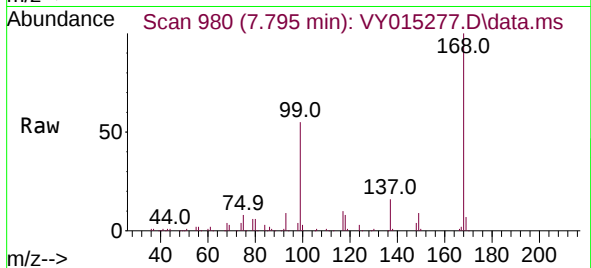
Tgt Ion: 75 Resp: 9719

Ion Ratio Lower Upper

75 100

110 10.0 17.8 53.5#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 7.276 ug/l

RT: 7.801 min Scan# 981

Delta R.T. -0.098 min

Lab File: VY015277.D

Acq: 23 Aug 2023 04:33

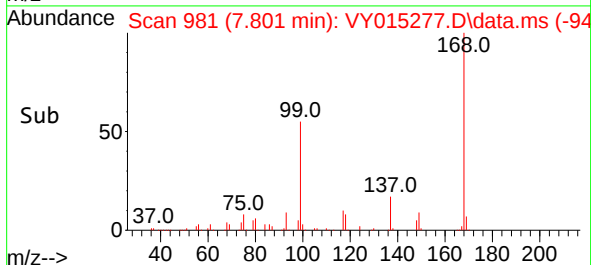
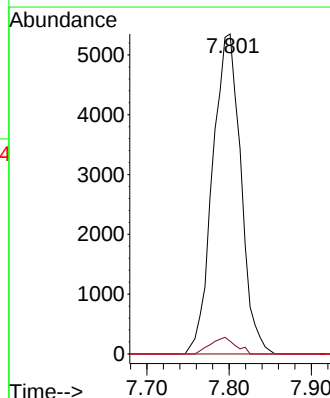
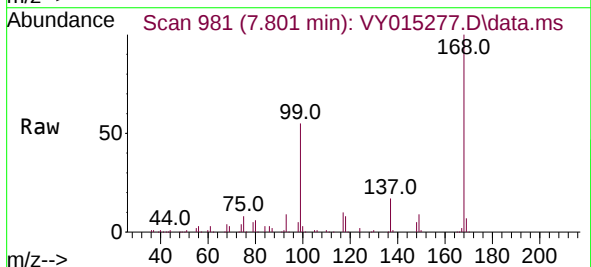
Tgt Ion: 117 Resp: 12750

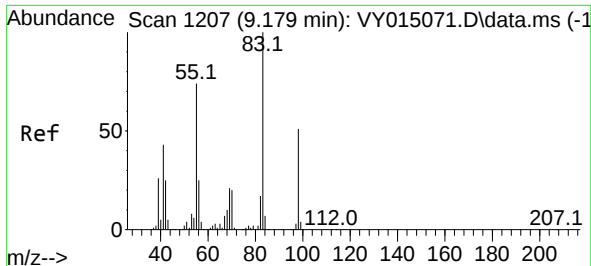
Ion Ratio Lower Upper

117 100

119 4.0 76.4 114.6#

121 0.0 25.8 38.6#





#39

Methylcyclohexane

Concen: 2.681 ug/l

RT: 9.148 min Scan# 1

Delta R.T. -0.030 min

Lab File: VY015277.D

Acq: 23 Aug 2023 04:33

Instrument :

MSVOA_Y

ClientSampleId :

DUP-1

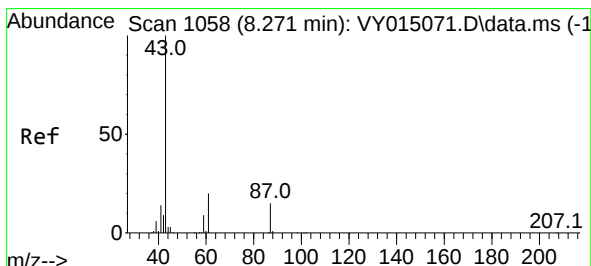
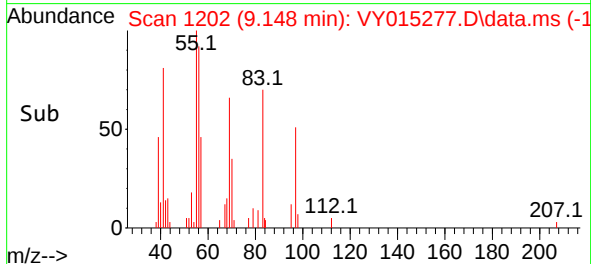
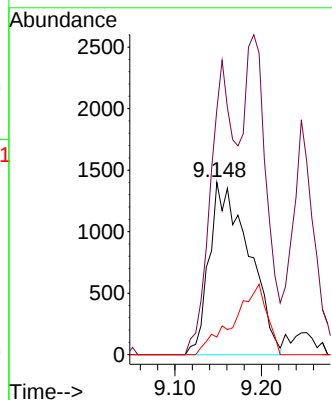
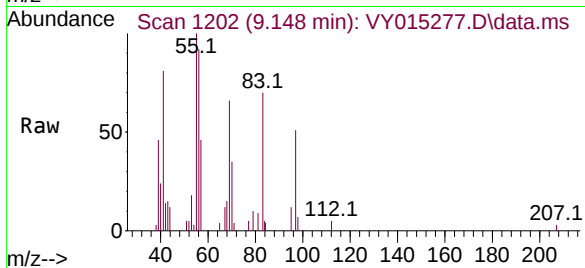
Tgt Ion: 83 Resp: 4451

Ion Ratio Lower Upper

83 100

55 142.3 63.0 94.4#

98 10.2 37.4 56.2#



#43

Isopropyl Acetate

Concen: 5.885 ug/l

RT: 8.270 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VY015277.D

Acq: 23 Aug 2023 04:33

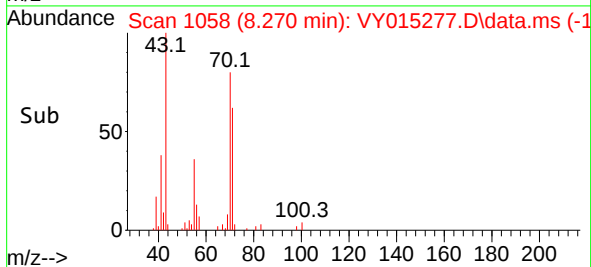
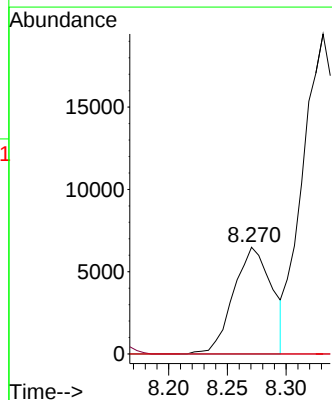
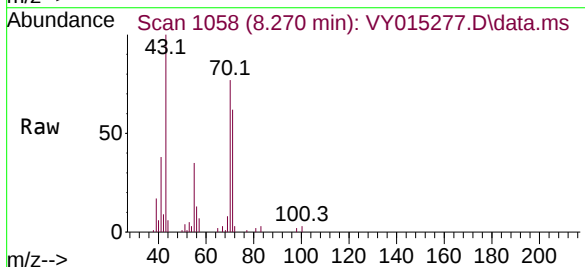
Tgt Ion: 43 Resp: 14792

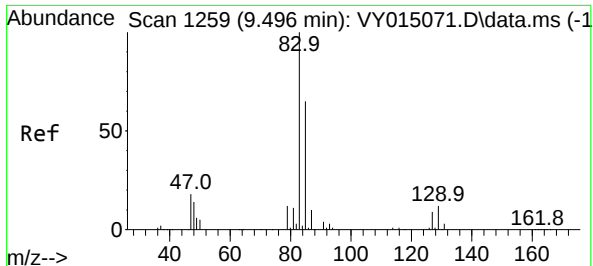
Ion Ratio Lower Upper

43 100

61 0.0 21.1 31.7#

87 0.0 9.8 14.8#





#47

Bromodichloromethane

Concen: 1.174 ug/l

RT: 9.471 min Scan# 1

Delta R.T. -0.024 min

Lab File: VY015277.D

Acq: 23 Aug 2023 04:33

Instrument :

MSVOA_Y

ClientSampleId :

DUP-1

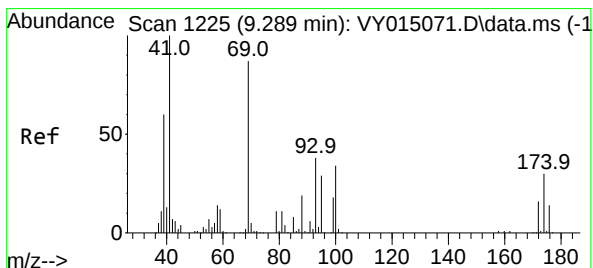
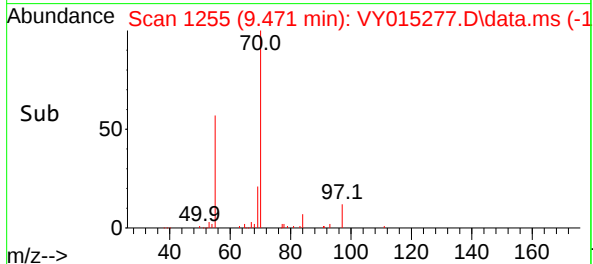
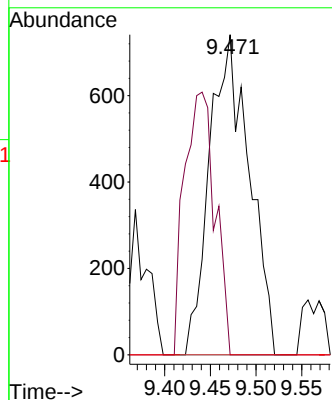
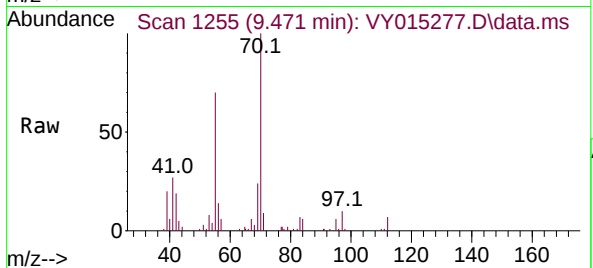
Tgt Ion: 83 Resp: 2230

Ion Ratio Lower Upper

83 100

85 0.0 50.1 75.1#

127 0.0 7.1 10.7#



#48

Methyl methacrylate

Concen: 4.101 ug/l

RT: 9.325 min Scan# 1231

Delta R.T. 0.037 min

Lab File: VY015277.D

Acq: 23 Aug 2023 04:33

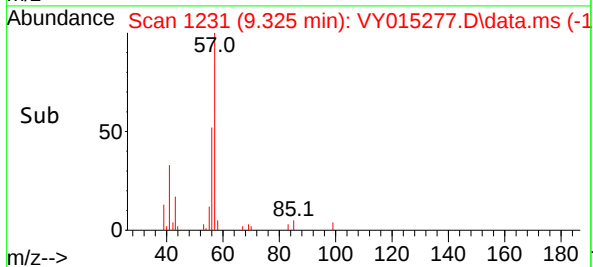
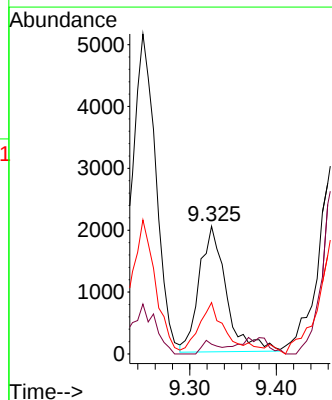
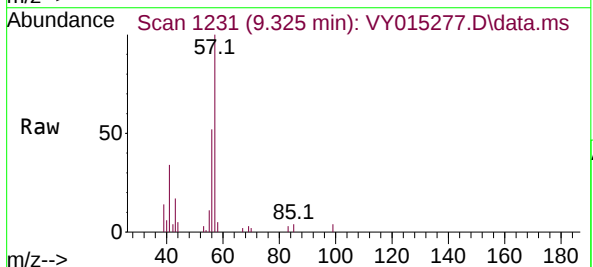
Tgt Ion: 41 Resp: 4409

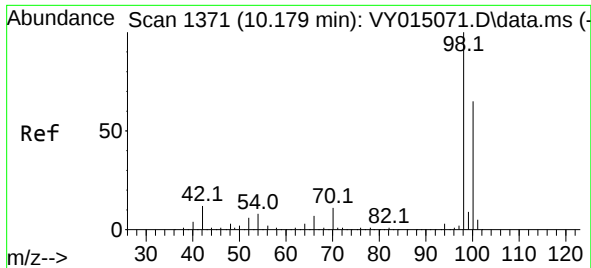
Ion Ratio Lower Upper

41 100

69 5.9 64.5 96.7#

39 35.9 50.8 76.2#

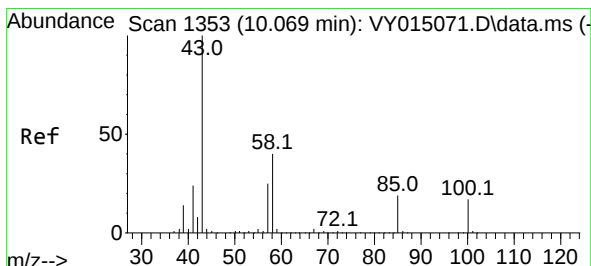
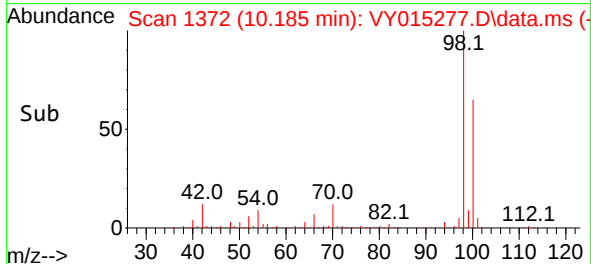
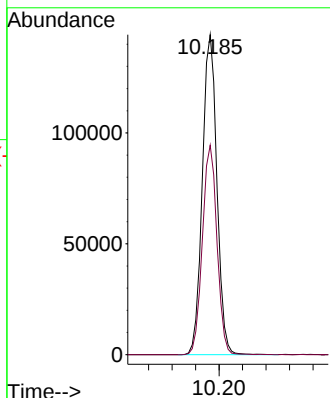
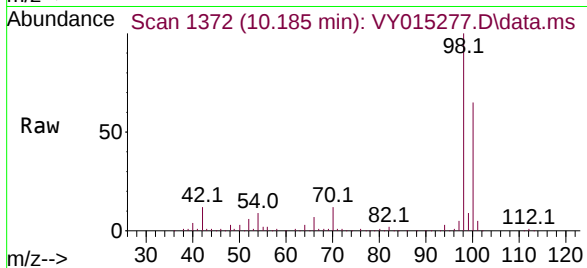




#50
Toluene-d8
Concen: 49.891 ug/l
RT: 10.185 min Scan# 1371
Delta R.T. 0.006 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

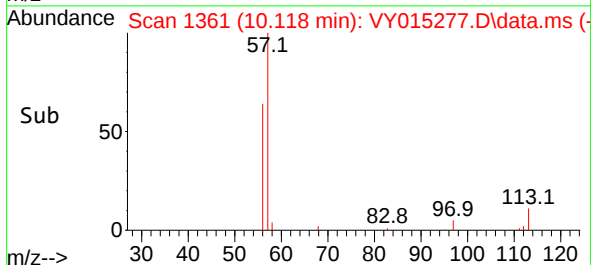
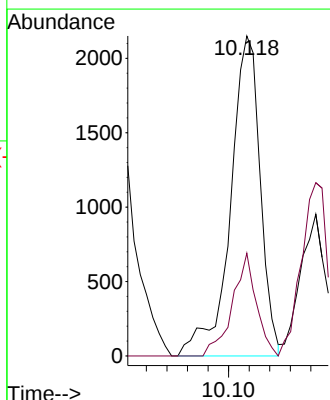
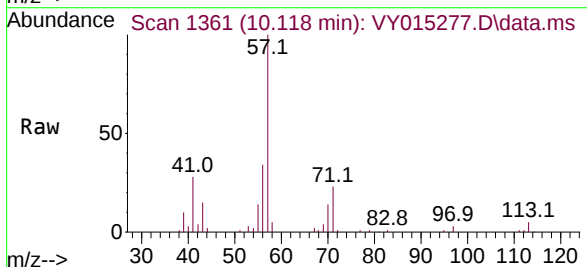
Instrument :
MSVOA_Y
ClientSampleId :
DUP-1

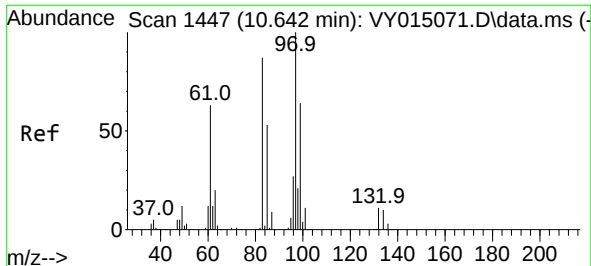
Tgt Ion: 98 Resp: 248569
Ion Ratio Lower Upper
98 100
100 65.6 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 2.975 ug/l
RT: 10.118 min Scan# 1361
Delta R.T. 0.049 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

Tgt Ion: 43 Resp: 4333
Ion Ratio Lower Upper
43 100
58 25.7 29.0 43.6#

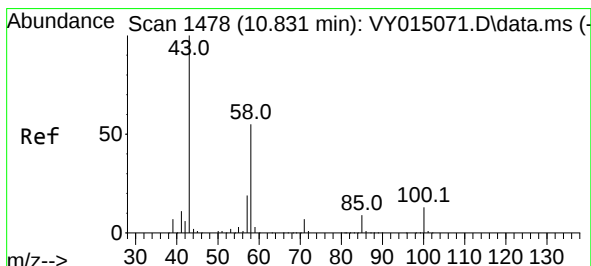
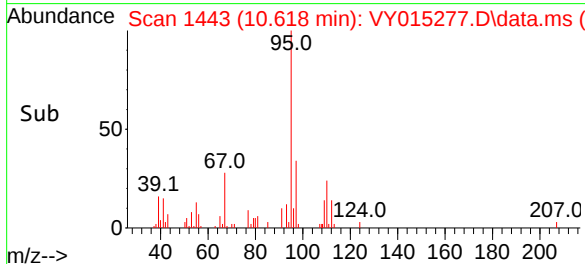
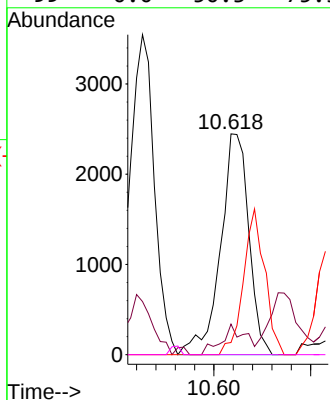
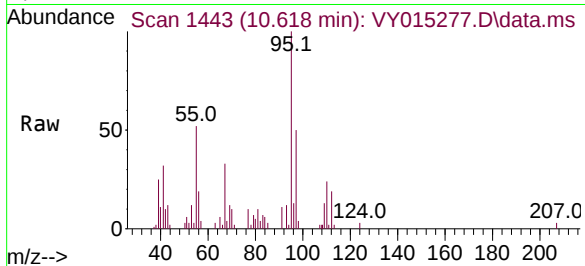




#55
1,1,2-Trichloroethane
Concen: 4.103 ug/l
RT: 10.618 min Scan# 1443
Delta R.T. -0.024 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

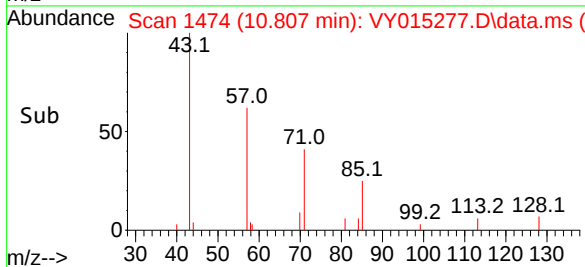
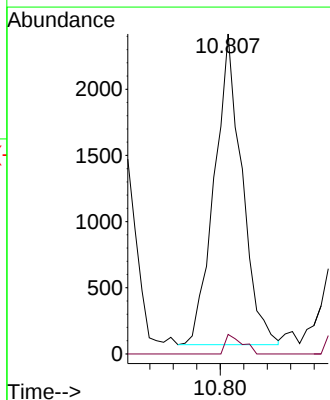
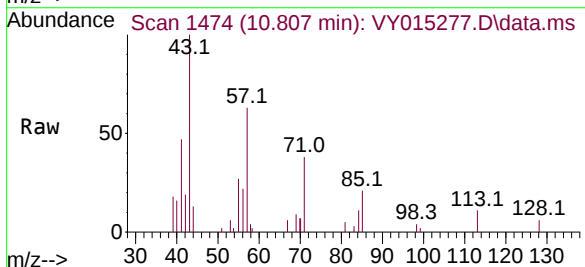
Instrument :
MSVOA_Y
ClientSampleId :
DUP-1

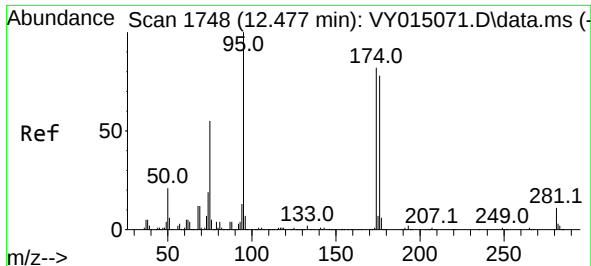
Tgt Ion: 97 Resp: 4967
Ion Ratio Lower Upper
97 100
83 10.7 72.0 108.0#
85 5.5 45.4 68.0#
99 0.0 50.3 75.5#



#59
2-Hexanone
Concen: 3.554 ug/l
RT: 10.807 min Scan# 1474
Delta R.T. -0.024 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

Tgt Ion: 43 Resp: 3832
Ion Ratio Lower Upper
43 100
58 3.9 25.1 75.3#

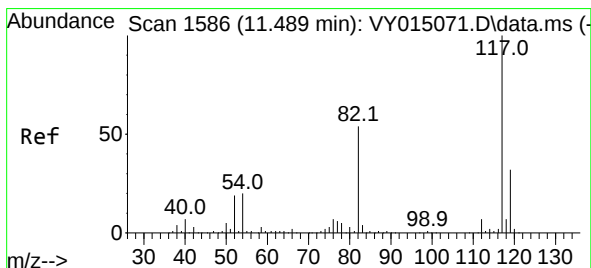
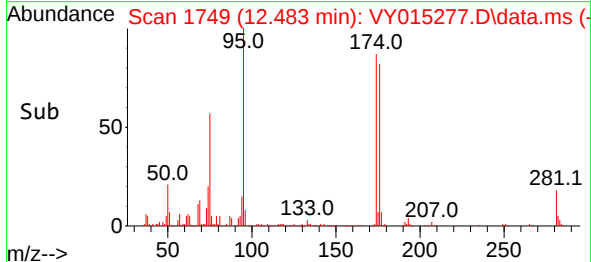
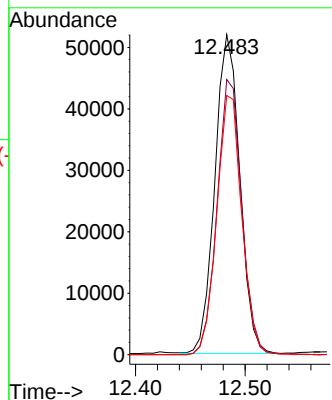
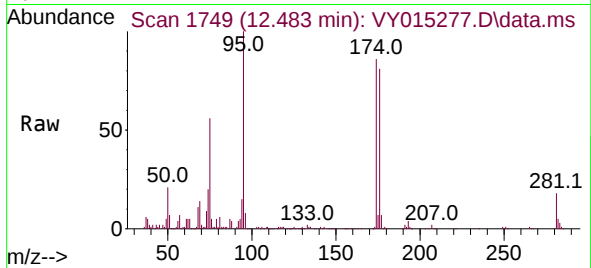




#62
4-Bromofluorobenzene
Concen: 45.085 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

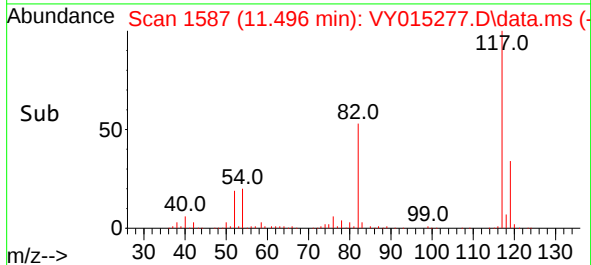
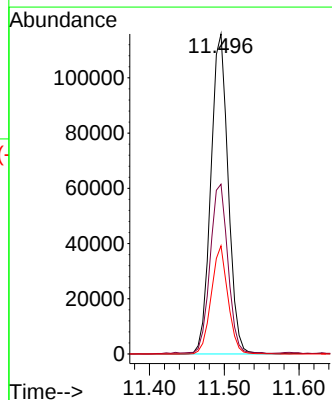
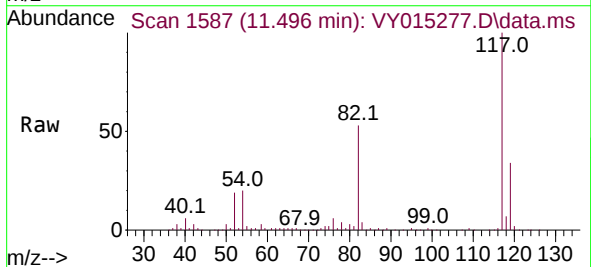
Instrument :
MSVOA_Y
ClientSampleId :
DUP-1

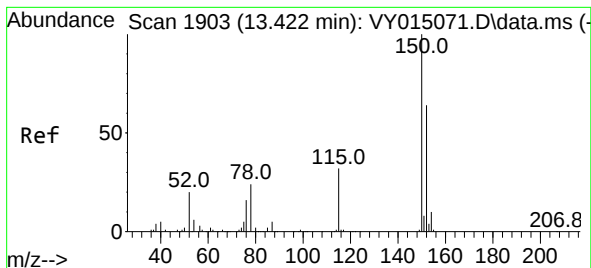
Tgt Ion: 95 Resp: 82043
Ion Ratio Lower Upper
95 100
174 85.6 0.0 178.2
176 81.4 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

Tgt Ion: 117 Resp: 186758
Ion Ratio Lower Upper
117 100
82 52.7 43.4 65.0
119 33.8 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1903

Delta R.T. 0.006 min

Lab File: VY015277.D

Acq: 23 Aug 2023 04:33

Instrument :

MSVOA_Y

ClientSampleId :

DUP-1

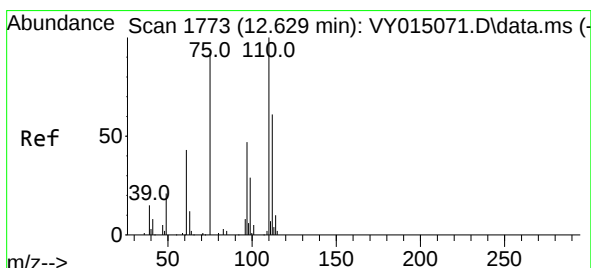
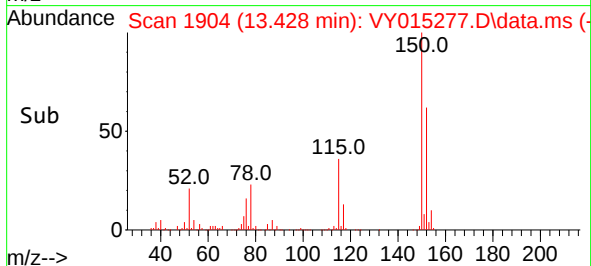
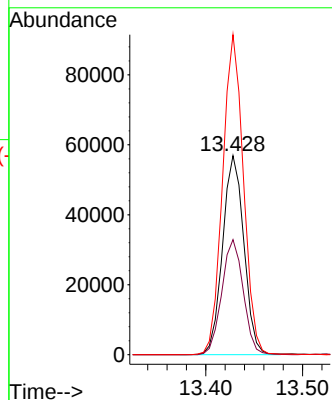
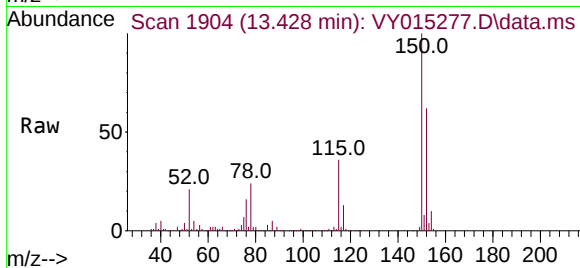
Tgt Ion:152 Resp: 86937

Ion Ratio Lower Upper

152 100

115 58.1 28.8 86.5

150 157.4 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 41.369 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.146 min

Lab File: VY015277.D

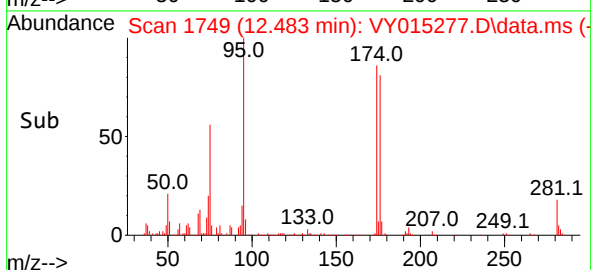
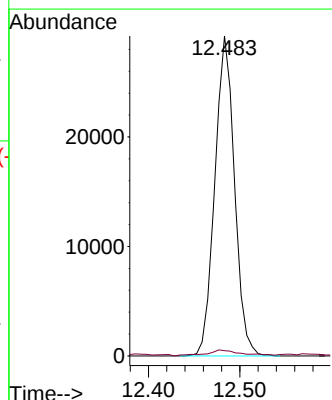
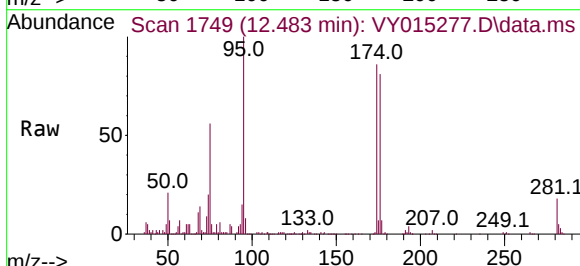
Acq: 23 Aug 2023 04:33

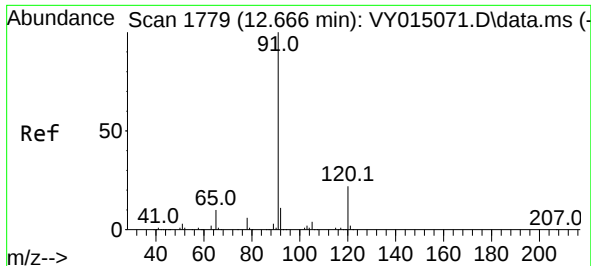
Tgt Ion: 75 Resp: 43695

Ion Ratio Lower Upper

75 100

77 3.4 0.0 0.0#

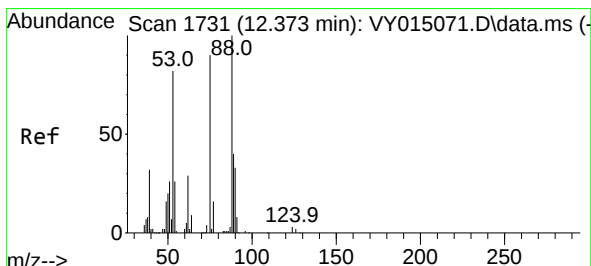
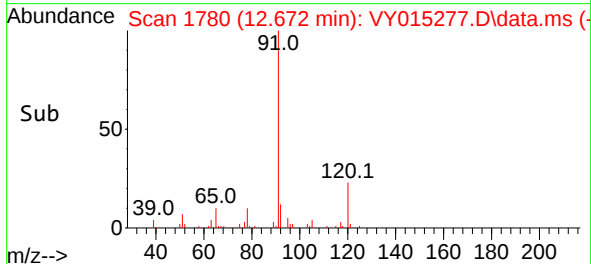
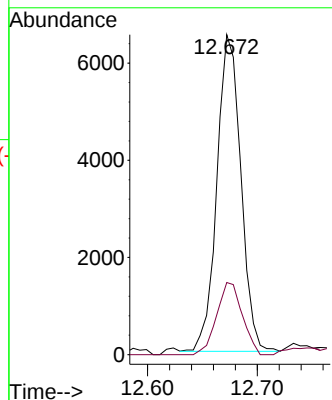
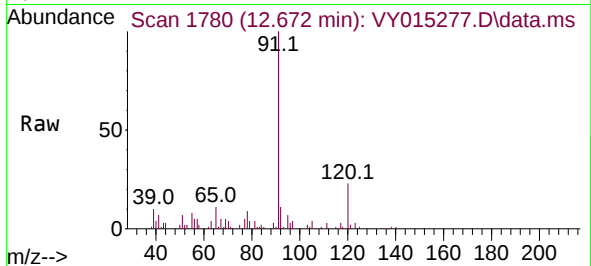




#78
n-propylbenzene
Concen: 1.490 ug/l
RT: 12.672 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

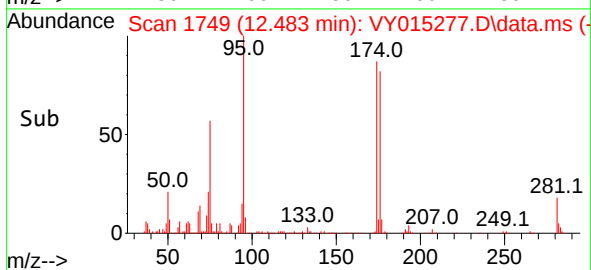
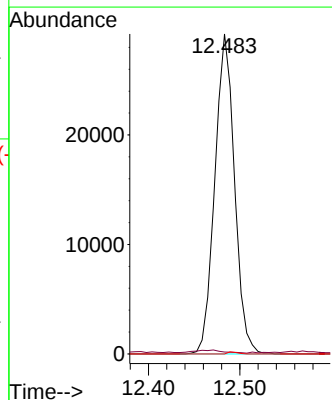
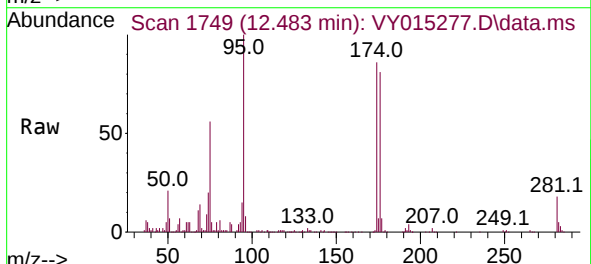
Instrument :
MSVOA_Y
ClientSampleId :
DUP-1

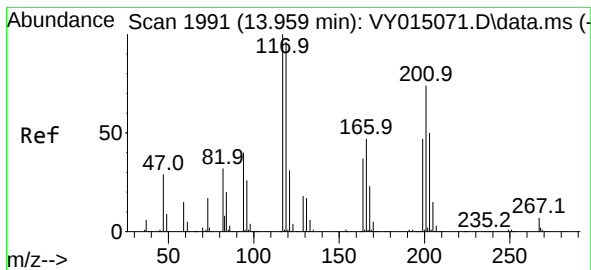
Tgt Ion: 91 Resp: 9892
Ion Ratio Lower Upper
91 100
120 24.3 11.5 34.4



#81
trans-1,4-Dichloro-2-butene
Concen: 90.867 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.110 min
Lab File: VY015277.D
Acq: 23 Aug 2023 04:33

Tgt Ion: 75 Resp: 43695
Ion Ratio Lower Upper
75 100
53 1.4 77.8 116.8#
89 0.3 37.4 56.0#





#90
 Hexachloroethane
 Concen: 1.736 ug/l
 RT: 13.971 min Scan# 1993
 Delta R.T. 0.012 min
 Lab File: VY015277.D
 Acq: 23 Aug 2023 04:33

Instrument :
 MSVOA_Y
 ClientSampleId :
 DUP-1

Tgt Ion:117 Resp: 1783
 Ion Ratio Lower Upper
 117 100
 201 0.0 41.6 124.8#

