

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082223\
 Data File : VY015255.D
 Acq On : 22 Aug 2023 19:24
 Operator : SY/MD
 Sample : 04109-01
 Misc : 6.57g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-01(6-7)

Quant Time: Aug 23 02:46:37 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)

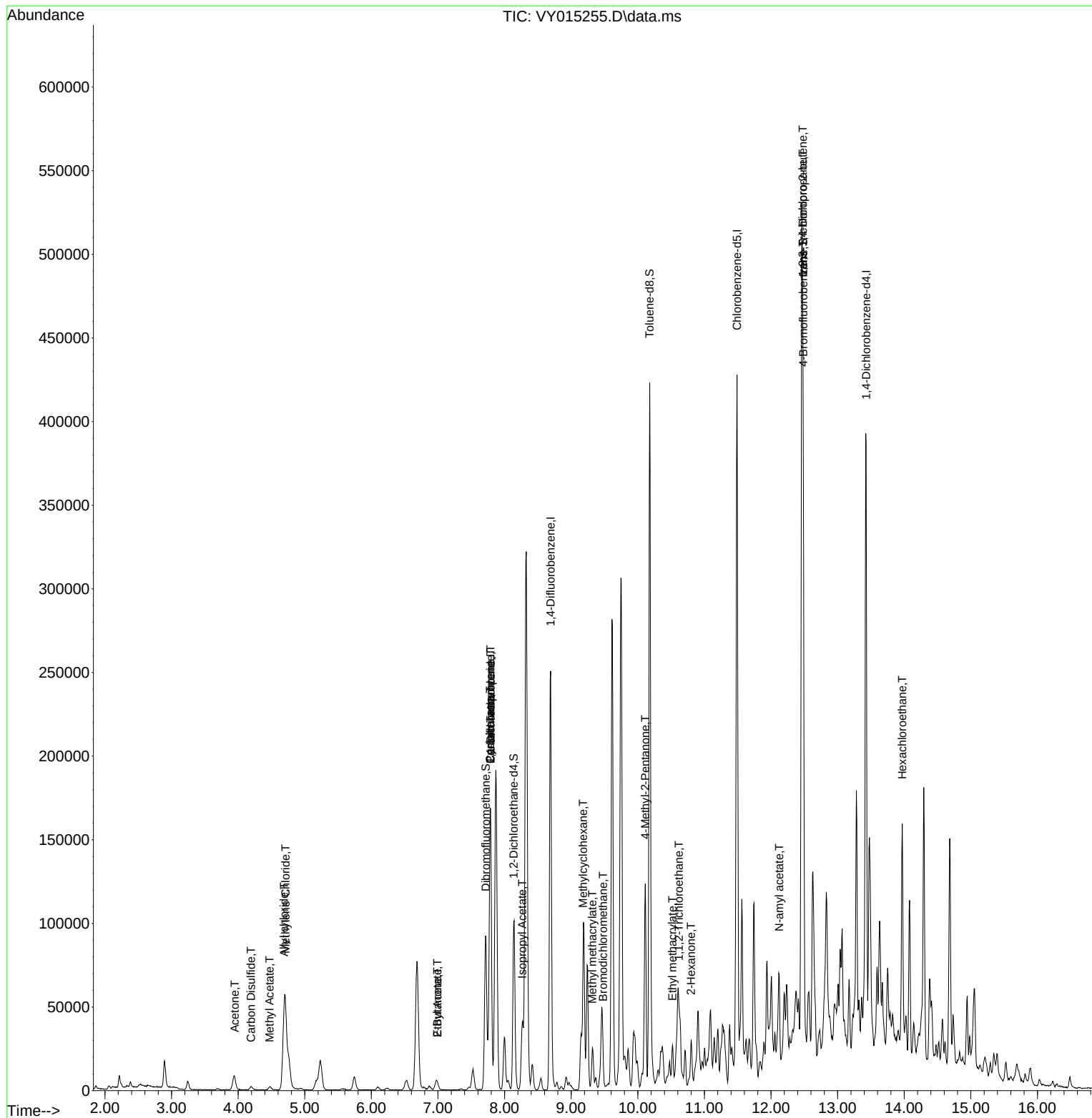
Internal Standards						
1) Pentafluorobenzene	7.789	168	125993	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	207724	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	191296	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	93557	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	80297	53.091	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 106.180%	
35) Dibromofluoromethane	7.716	113	64169	48.018	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 96.040%	
50) Toluene-d8	10.179	98	251394	50.535	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.060%	
62) 4-Bromofluorobenzene	12.483	95	90548	49.834	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 99.660%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.113	50	714	Below Cal	#	78
5) Bromomethane	2.650	94	513	Below Cal	#	67
11) Tert butyl alcohol	4.948	59	1564	Below Cal	#	89
13) Acrolein	3.924	56	1130	Below Cal		87
14) Allyl chloride	4.692	41	23381	15.042	ug/l #	62
16) Acetone	3.948	43	10451	21.152	ug/l	92
17) Carbon Disulfide	4.192	76	2596	1.683	ug/l #	76
18) Methyl Acetate	4.472	43	3929	2.170	ug/l	92
20) Methylene Chloride	4.710	84	13844	8.063	ug/l #	83
25) 2-Butanone	6.990	43	3677	5.256	ug/l #	85
31) Cyclohexane	7.783	56	8027	3.571	ug/l #	68
36) 1,1-Dichloropropene	7.789	75	9775	6.612	ug/l #	51
37) Ethyl Acetate	6.990	43	3677	2.668	ug/l #	71
38) Carbon Tetrachloride	7.789	117	12865	7.353	ug/l #	15
39) Methylcyclohexane	9.179	83	12185	7.352	ug/l #	62
43) Isopropyl Acetate	8.264	43	21680	8.639	ug/l #	55
47) Bromodichloromethane	9.478	83	3472	1.830	ug/l #	26
48) Methyl methacrylate	9.319	41	6206	5.781	ug/l #	34
51) 4-Methyl-2-Pentanone	10.112	43	13443	9.243	ug/l #	87
55) 1,1,2-Trichloroethane	10.618	97	9990	8.265	ug/l #	24
56) Ethyl methacrylate	10.520	69	2079	1.175	ug/l #	1
59) 2-Hexanone	10.800	43	10336	9.602	ug/l #	33
74) N-amyl acetate	12.123	43	12955	5.964	ug/l #	70
76) 1,2,3-Trichloropropane	12.477	75	48075	42.295	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	48075	92.901	ug/l #	11
90) Hexachloroethane	13.971	117	5240	4.740	ug/l #	8

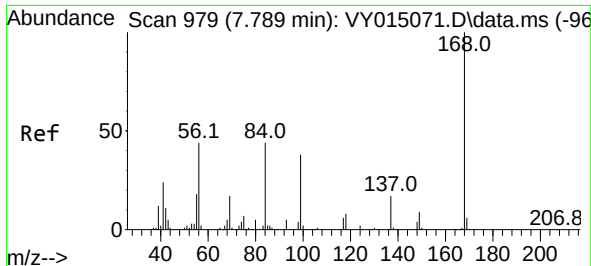
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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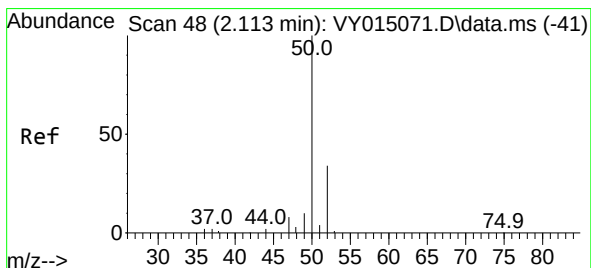
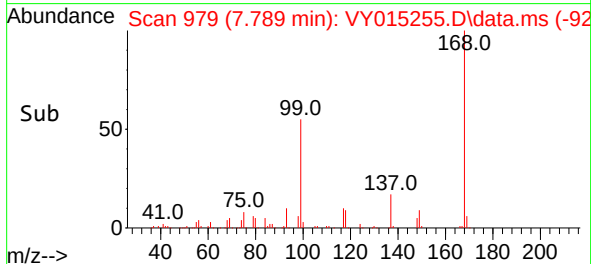
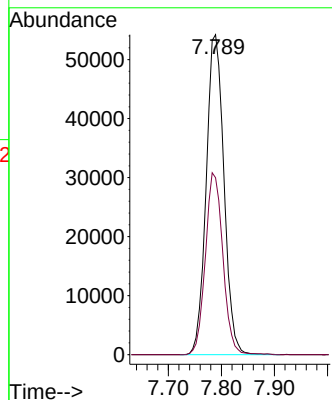
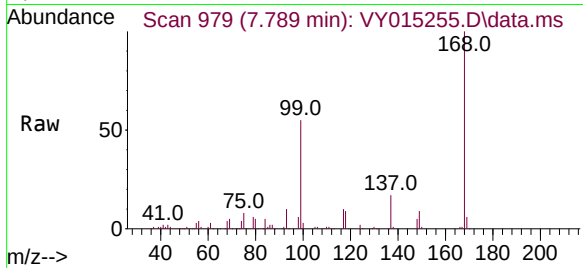




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

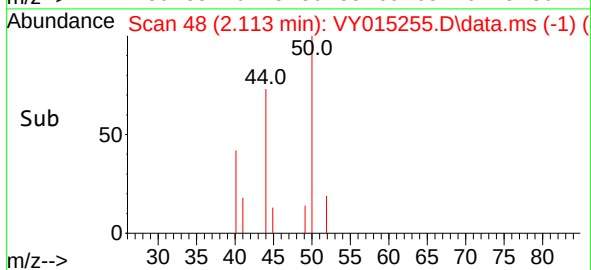
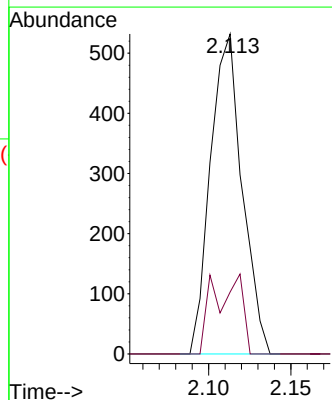
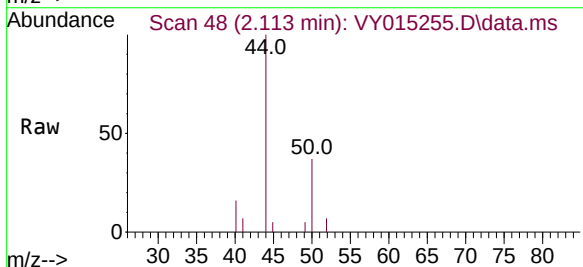
Instrument :
MSVOA_Y
ClientSampleId :
TP-01(6-7)

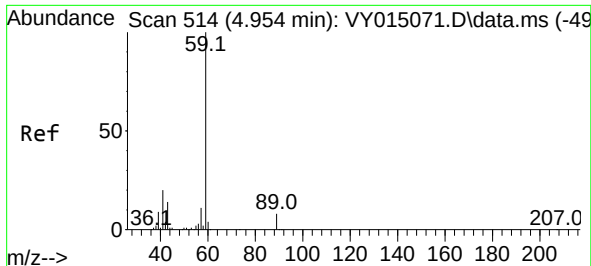
Tgt Ion:168 Resp: 125993
Ion Ratio Lower Upper
168 100
99 55.3 43.4 65.0



#3
Chloromethane
Concen: Below Cal
RT: 2.113 min Scan# 48
Delta R.T. 0.006 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

Tgt Ion: 50 Resp: 714
Ion Ratio Lower Upper
50 100
52 19.4 25.4 38.2#

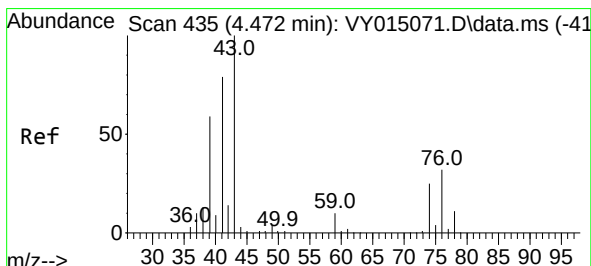
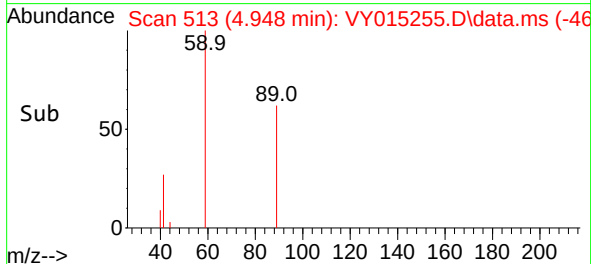
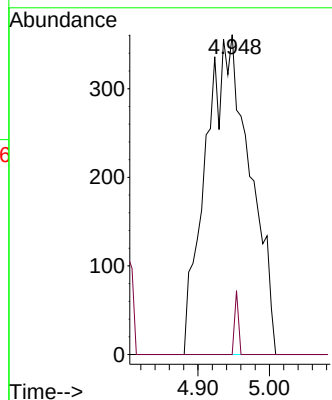
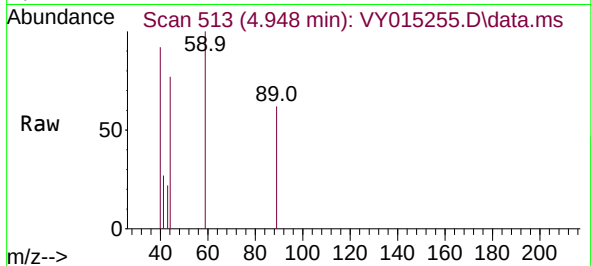




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.948 min Scan# 514
Delta R.T. -0.000 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

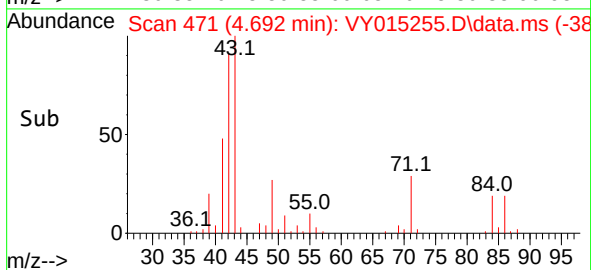
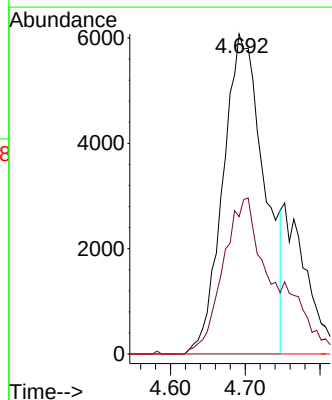
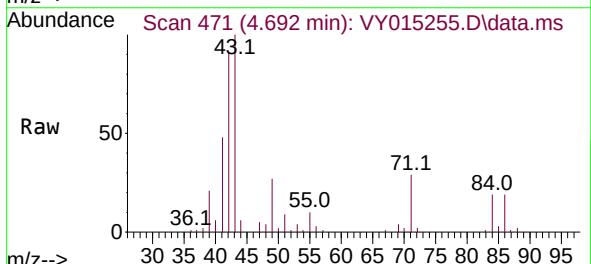
Instrument :
MSVOA_Y
ClientSampleId :
TP-01(6-7)

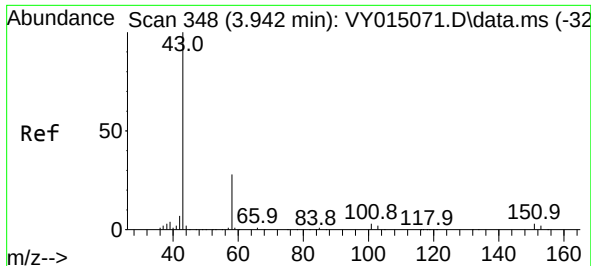
Tgt Ion: 59 Resp: 1564
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#14
Allyl chloride
Concen: 15.042 ug/l
RT: 4.692 min Scan# 471
Delta R.T. 0.219 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

Tgt Ion: 41 Resp: 23381
Ion Ratio Lower Upper
41 100
39 48.9 58.0 87.0#
76 0.0 27.4 41.2#





#16

Acetone

Concen: 21.152 ug/l

RT: 3.948 min Scan# 348

Delta R.T. 0.006 min

Lab File: VY015255.D

Acq: 22 Aug 2023 19:24

Instrument :

MSVOA_Y

ClientSampleId :

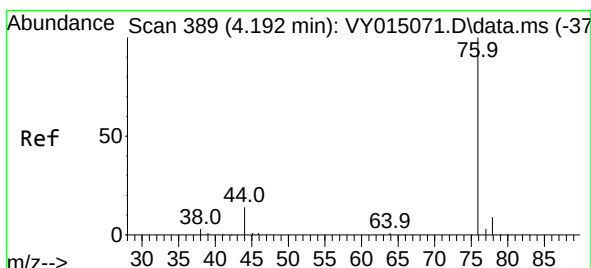
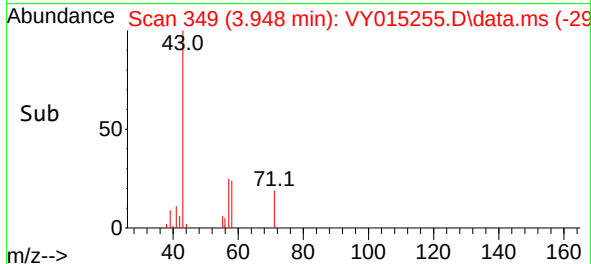
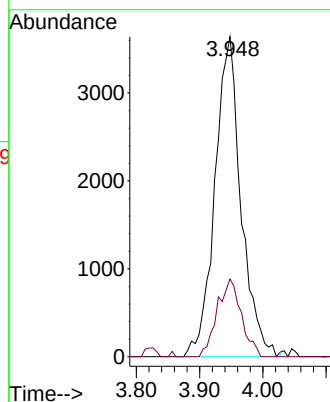
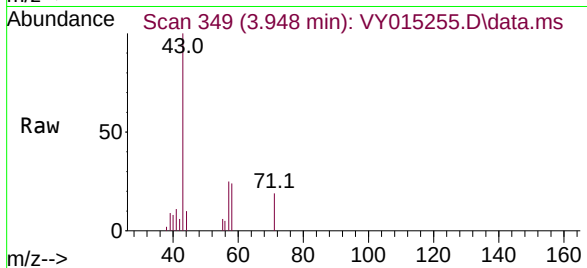
TP-01(6-7)

Tgt Ion: 43 Resp: 10451

Ion Ratio Lower Upper

43 100

58 24.3 22.7 34.1



#17

Carbon Disulfide

Concen: 1.683 ug/l

RT: 4.192 min Scan# 389

Delta R.T. 0.006 min

Lab File: VY015255.D

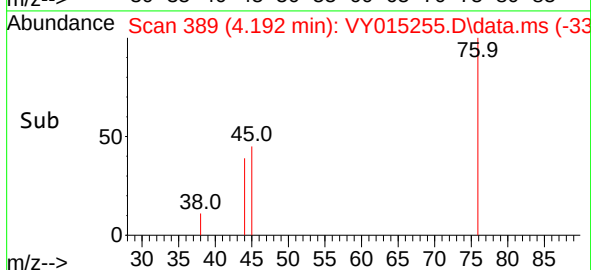
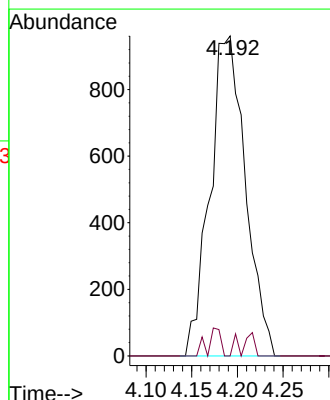
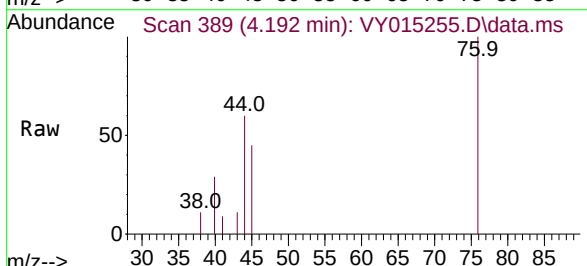
Acq: 22 Aug 2023 19:24

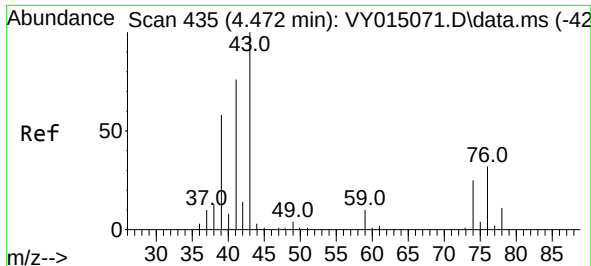
Tgt Ion: 76 Resp: 2596

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

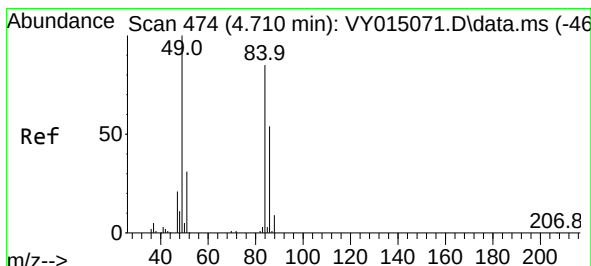
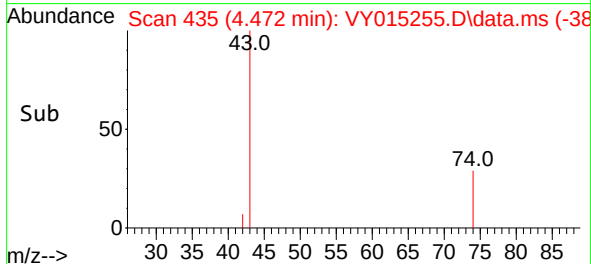
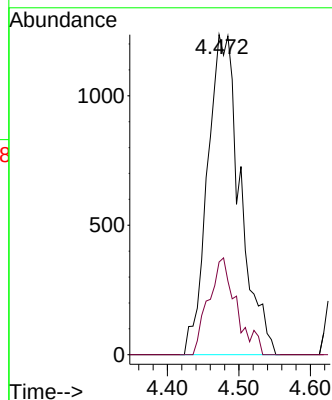
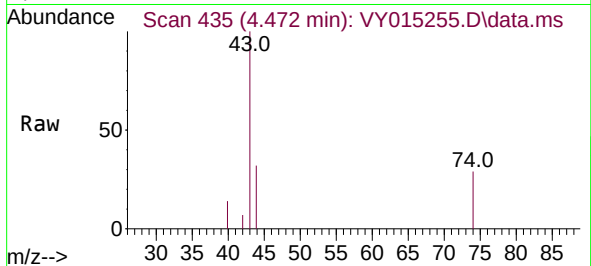




#18
Methyl Acetate
Concen: 2.170 ug/l
RT: 4.472 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

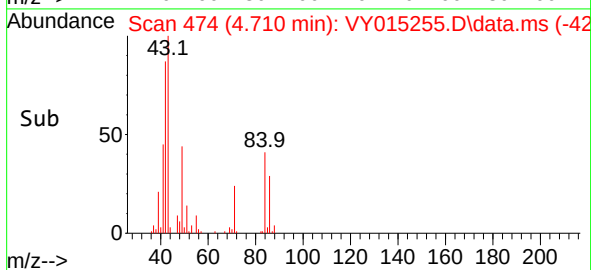
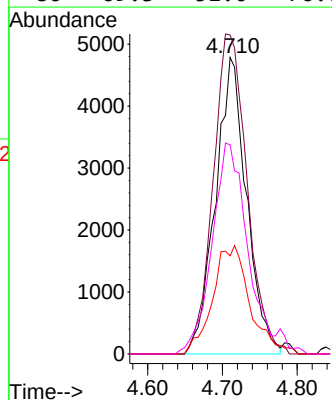
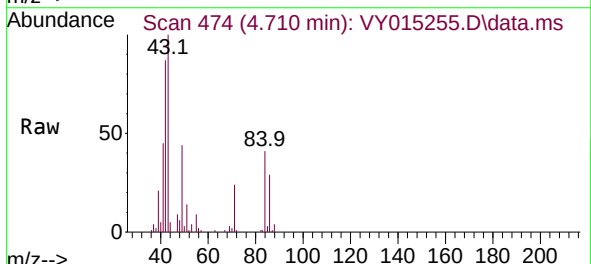
Instrument :
MSVOA_Y
ClientSampleId :
TP-01(6-7)

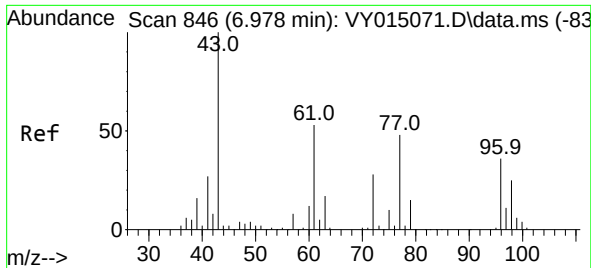
Tgt Ion: 43 Resp: 3929
Ion Ratio Lower Upper
43 100
74 25.7 17.4 26.0



#20
Methylene Chloride
Concen: 8.063 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

Tgt Ion: 84 Resp: 13844
Ion Ratio Lower Upper
84 100
49 107.6 106.9 160.3
51 33.1 33.2 49.8#
86 69.3 51.0 76.6

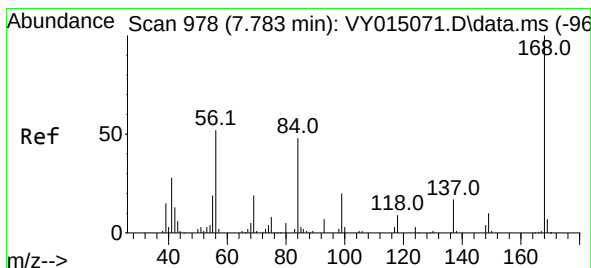
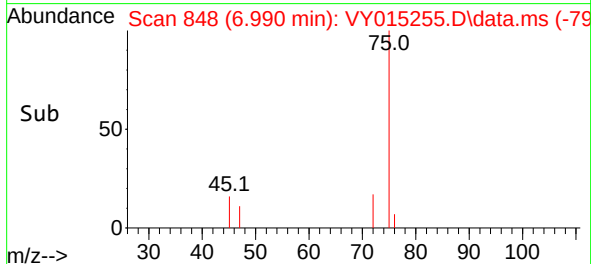
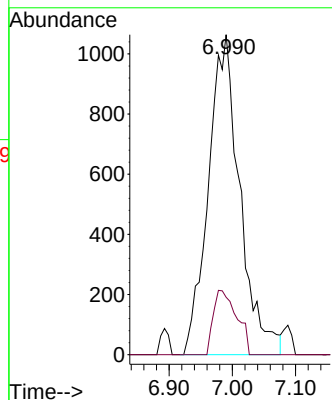
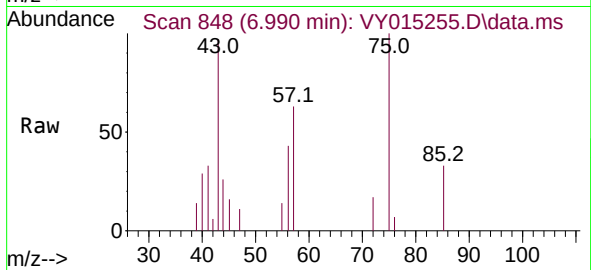




#25
2-Butanone
Concen: 5.256 ug/l
RT: 6.990 min Scan# 846
Delta R.T. 0.012 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

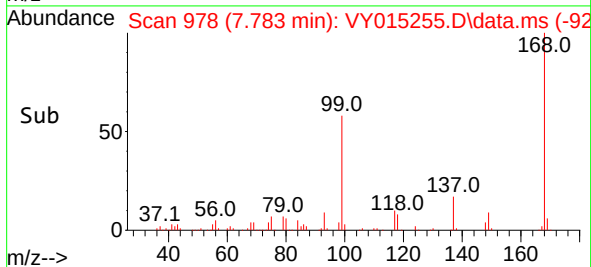
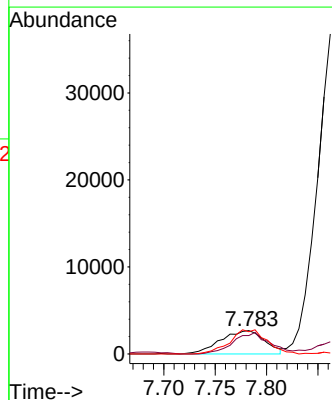
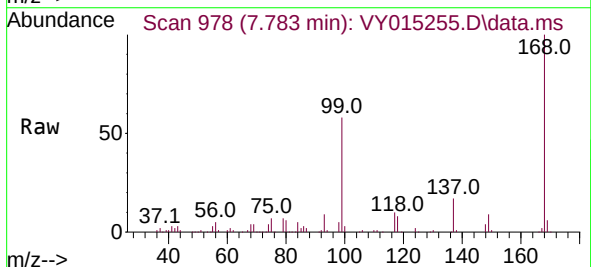
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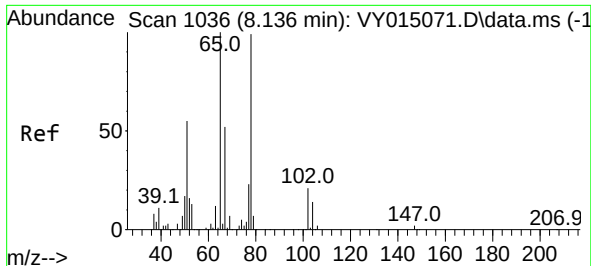
Tgt Ion: 43 Resp: 3677
Ion Ratio Lower Upper
43 100
72 18.0 20.5 30.7#



#31
Cyclohexane
Concen: 3.571 ug/l
RT: 7.783 min Scan# 978
Delta R.T. 0.006 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

Tgt Ion: 56 Resp: 8027
Ion Ratio Lower Upper
56 100
69 78.7 27.8 41.6#
84 95.1 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 53.091 ug/l

RT: 8.136 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY015255.D

Acq: 22 Aug 2023 19:24

Instrument :

MSVOA_Y

ClientSampleId :

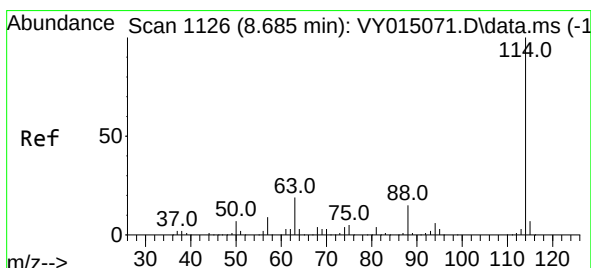
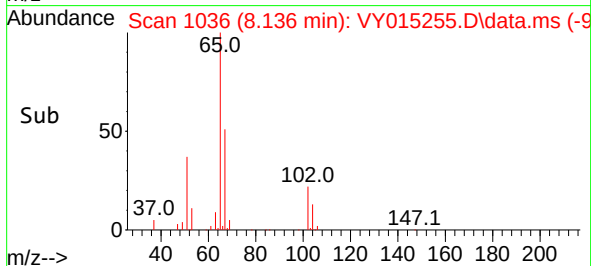
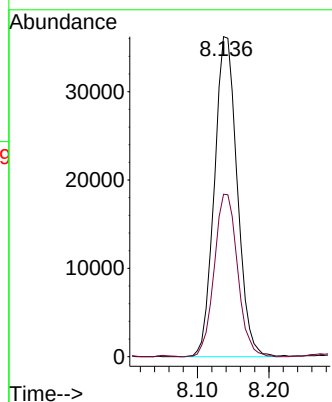
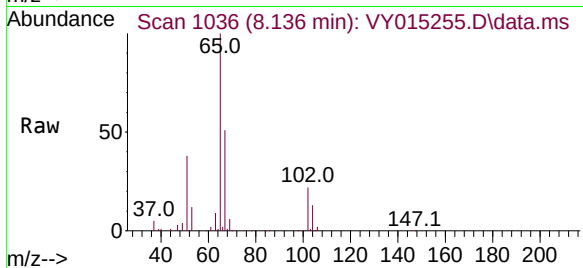
TP-01(6-7)

Tgt Ion: 65 Resp: 80297

Ion Ratio Lower Upper

65 100

67 51.9 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY015255.D

Acq: 22 Aug 2023 19:24

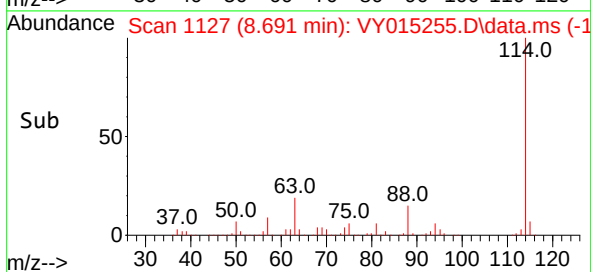
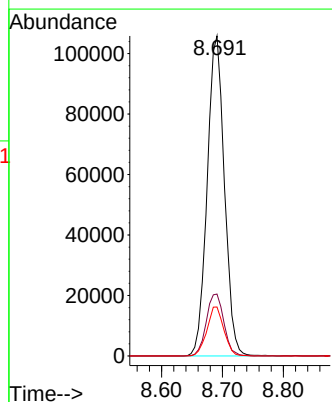
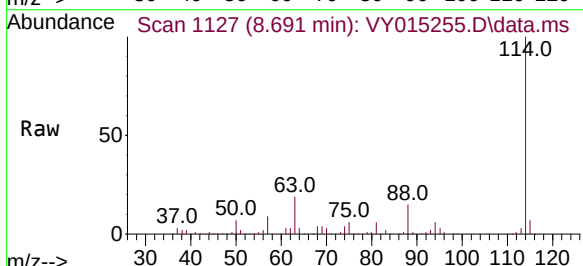
Tgt Ion: 114 Resp: 207724

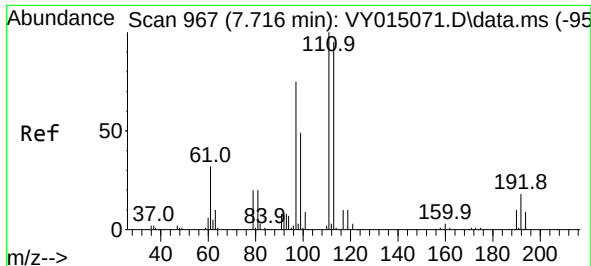
Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.4

88 15.3 0.0 30.6

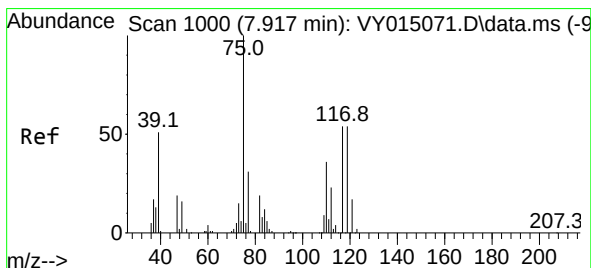
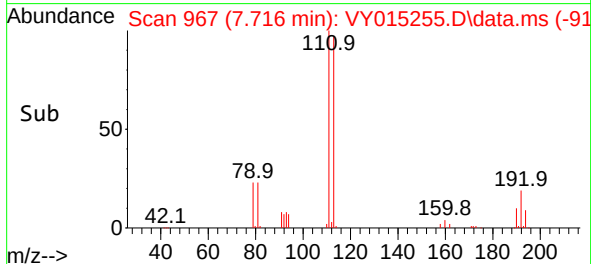
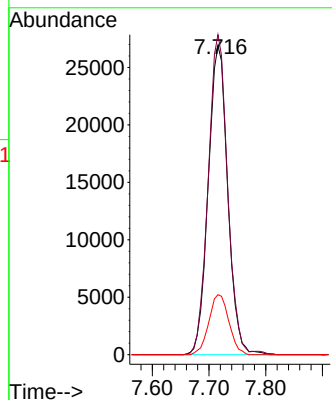
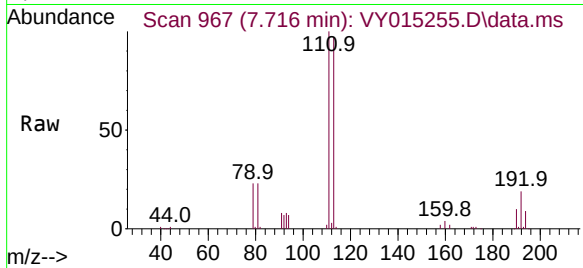




#35
Dibromofluoromethane
Concen: 48.018 ug/l
RT: 7.716 min Scan# 901
Delta R.T. -0.000 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

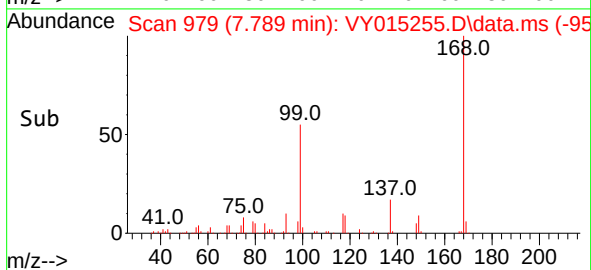
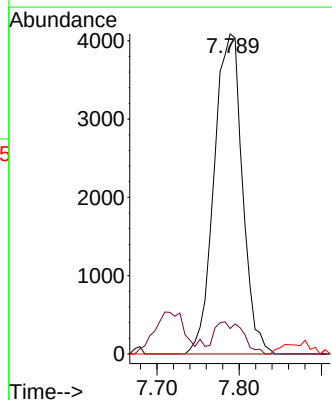
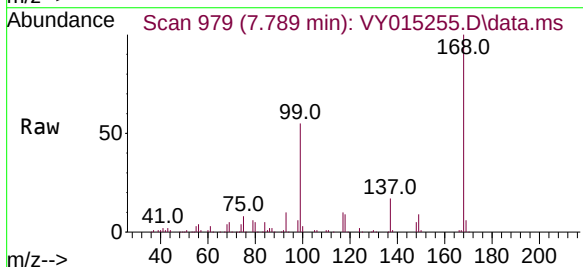
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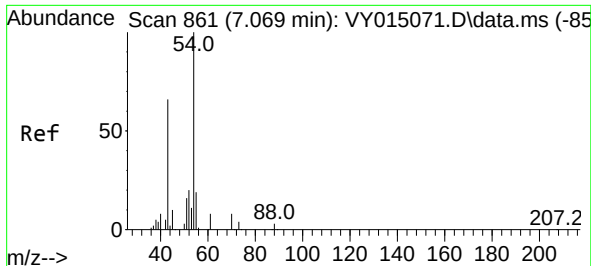
Tgt Ion:113 Resp: 64169
Ion Ratio Lower Upper
113 100
111 102.7 81.3 121.9
192 19.9 16.9 25.3



#36
1,1-Dichloropropene
Concen: 6.612 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.122 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

Tgt Ion: 75 Resp: 9775
Ion Ratio Lower Upper
75 100
110 10.2 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 2.668 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.079 min

Lab File: VY015255.D

Acq: 22 Aug 2023 19:24

Instrument :

MSVOA_Y

ClientSampleId :

TP-01(6-7)

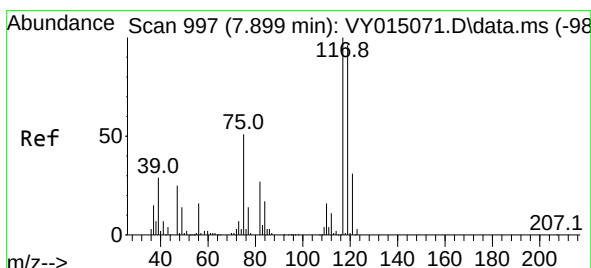
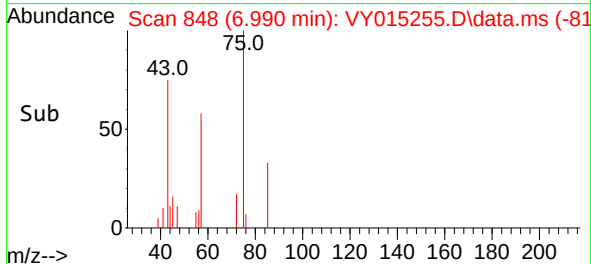
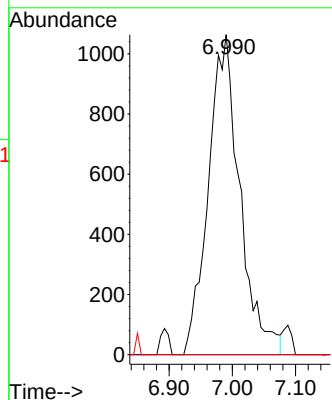
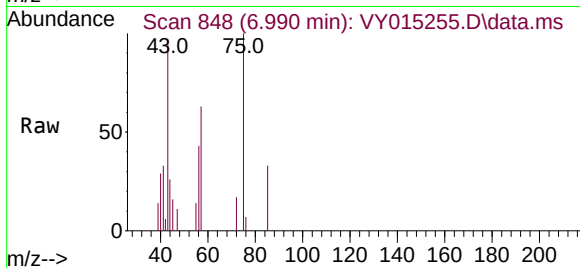
Tgt Ion: 43 Resp: 3677

Ion Ratio Lower Upper

43 100

61 0.0 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 7.353 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY015255.D

Acq: 22 Aug 2023 19:24

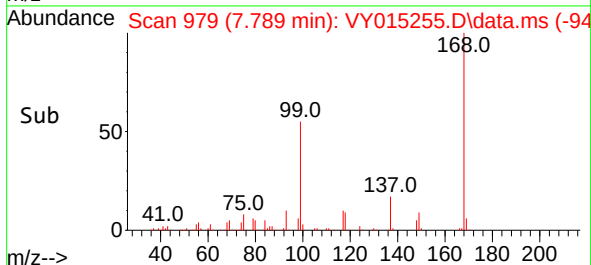
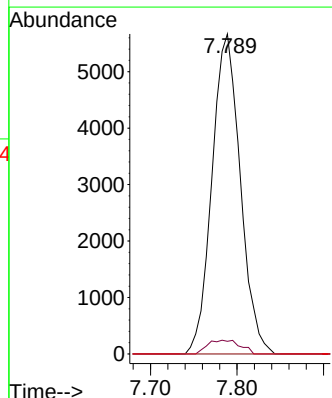
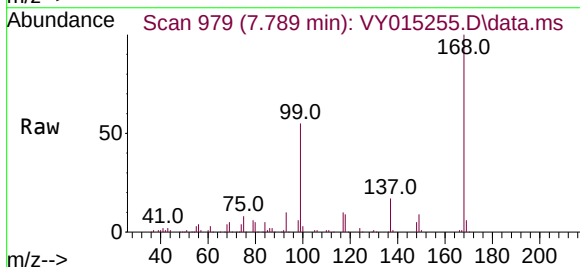
Tgt Ion: 117 Resp: 12865

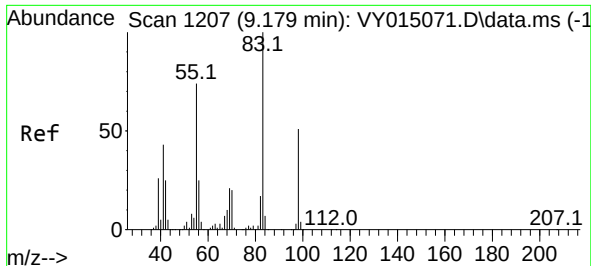
Ion Ratio Lower Upper

117 100

119 4.0 76.4 114.6#

121 0.0 25.8 38.6#





#39

Methylcyclohexane

Concen: 7.352 ug/l

RT: 9.179 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY015255.D

Acq: 22 Aug 2023 19:24

Instrument :

MSVOA_Y

ClientSampleId :

TP-01(6-7)

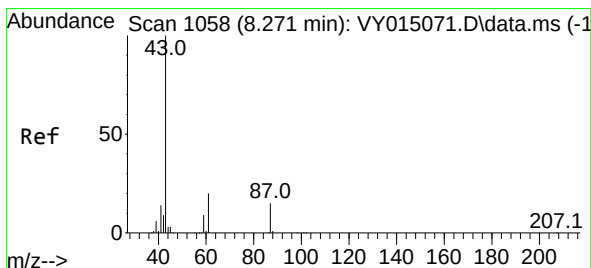
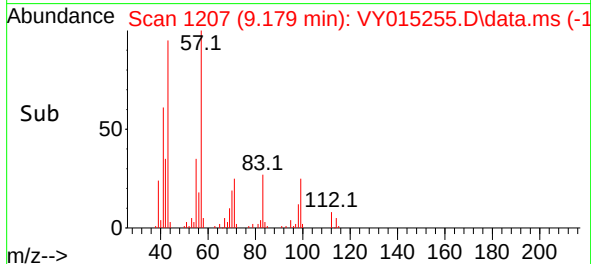
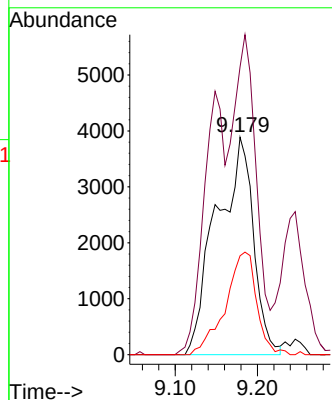
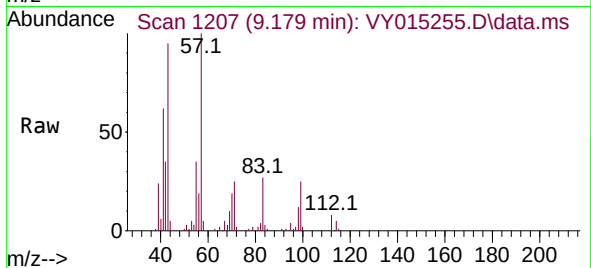
Tgt Ion: 83 Resp: 12185

Ion Ratio Lower Upper

83 100

55 130.5 63.0 94.4#

98 45.5 37.4 56.2



#43

Isopropyl Acetate

Concen: 8.639 ug/l

RT: 8.264 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VY015255.D

Acq: 22 Aug 2023 19:24

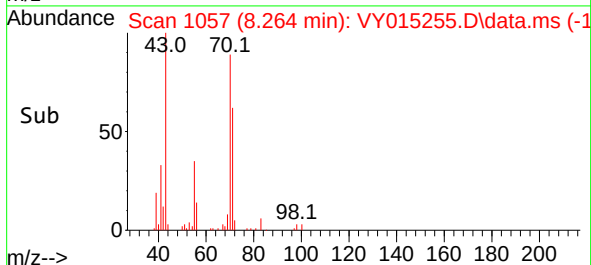
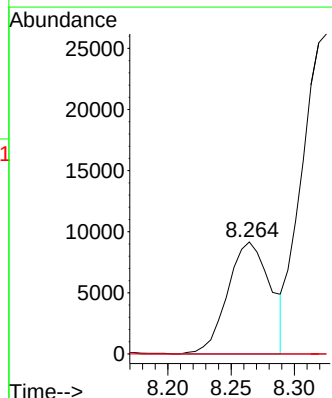
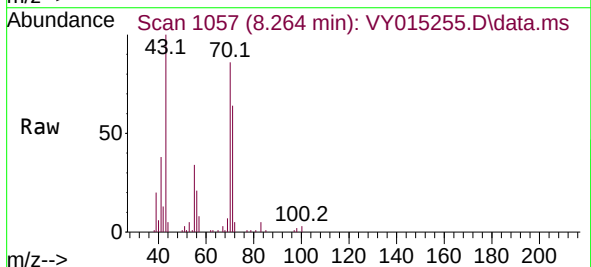
Tgt Ion: 43 Resp: 21680

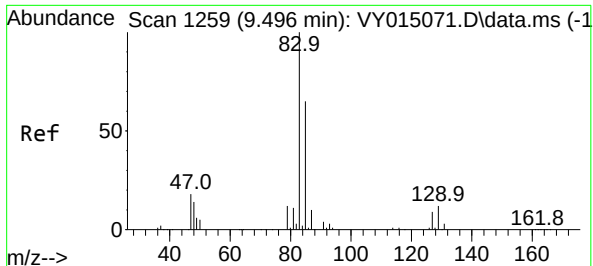
Ion Ratio Lower Upper

43 100

61 0.0 21.1 31.7#

87 0.0 9.8 14.8#

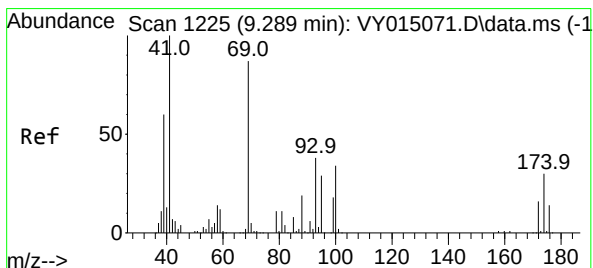
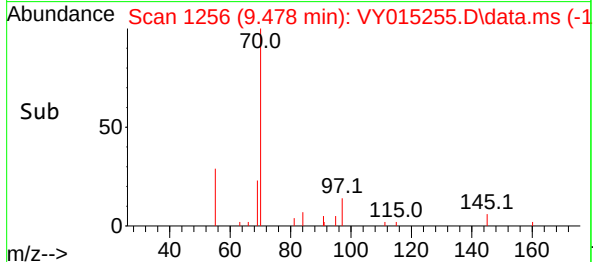
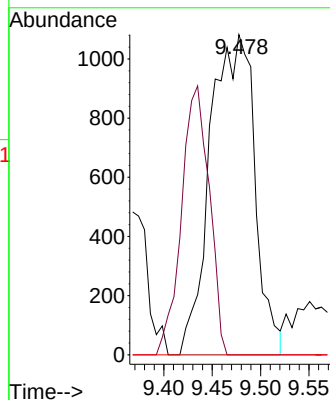
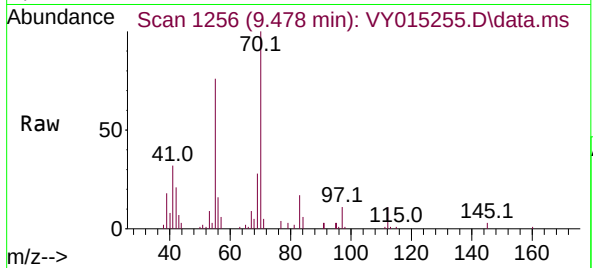




#47
Bromodichloromethane
Concen: 1.830 ug/l
RT: 9.478 min Scan# 11
Delta R.T. -0.018 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

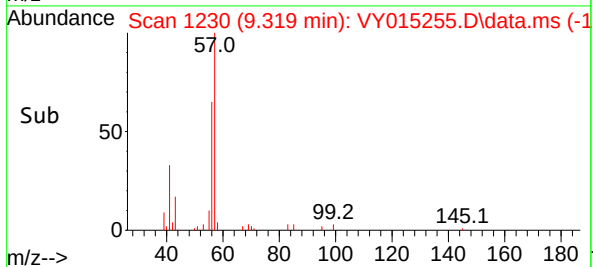
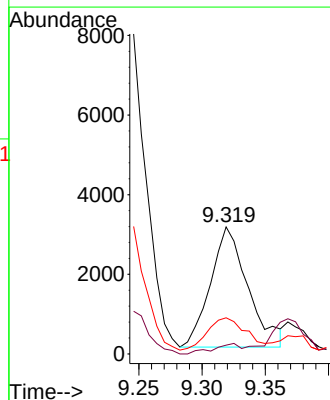
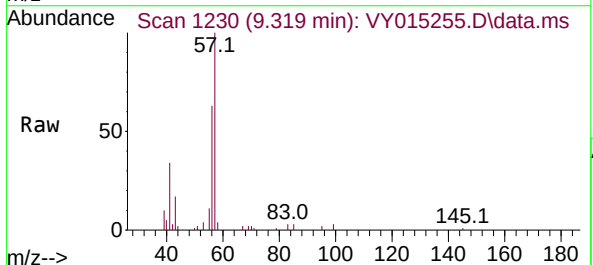
Instrument :
MSVOA_Y
ClientSampleId :
TP-01(6-7)

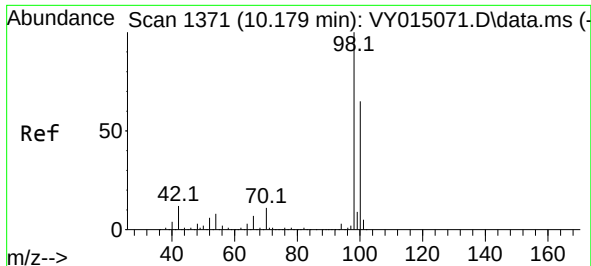
Tgt Ion: 83 Resp: 3472
Ion Ratio Lower Upper
83 100
85 0.0 50.1 75.1#
127 0.0 7.1 10.7#



#48
Methyl methacrylate
Concen: 5.781 ug/l
RT: 9.319 min Scan# 1230
Delta R.T. 0.030 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

Tgt Ion: 41 Resp: 6206
Ion Ratio Lower Upper
41 100
69 6.2 64.5 96.7#
39 29.0 50.8 76.2#

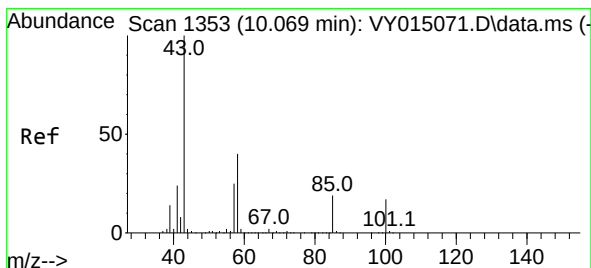
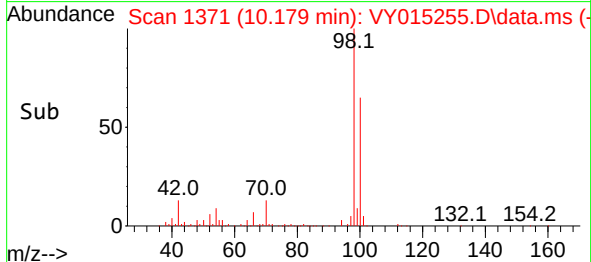
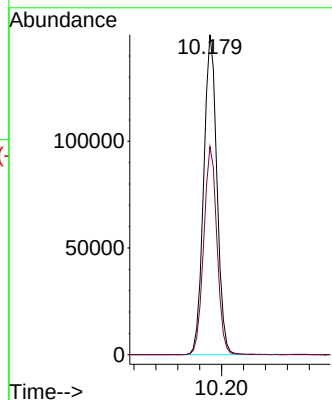
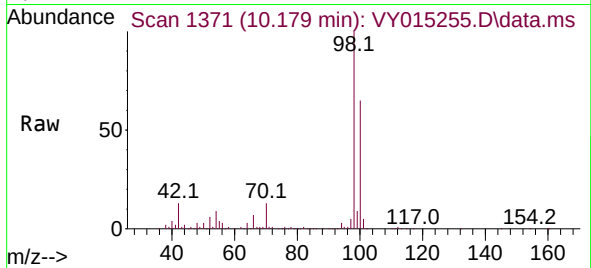




#50
Toluene-d8
Concen: 50.535 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

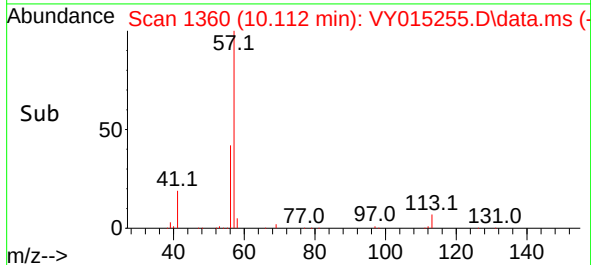
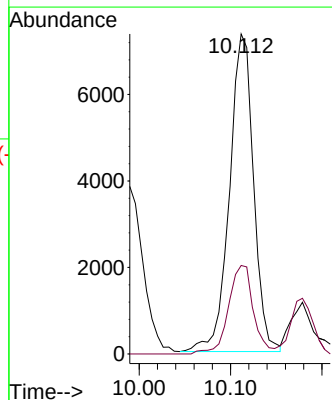
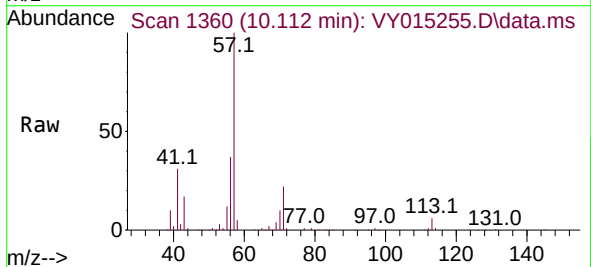
Instrument :
MSVOA_Y
ClientSampleId :
TP-01(6-7)

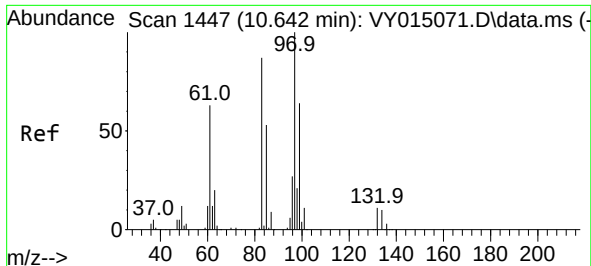
Tgt Ion: 98 Resp: 251394
Ion Ratio Lower Upper
98 100
100 64.8 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 9.243 ug/l
RT: 10.112 min Scan# 1360
Delta R.T. 0.043 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

Tgt Ion: 43 Resp: 13443
Ion Ratio Lower Upper
43 100
58 28.9 29.0 43.6#

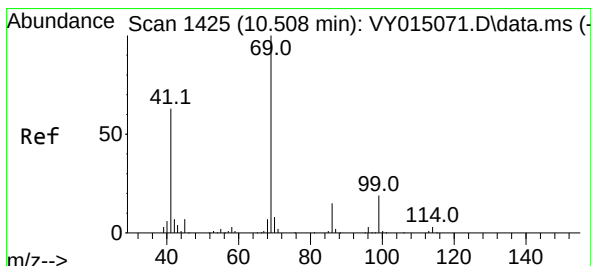
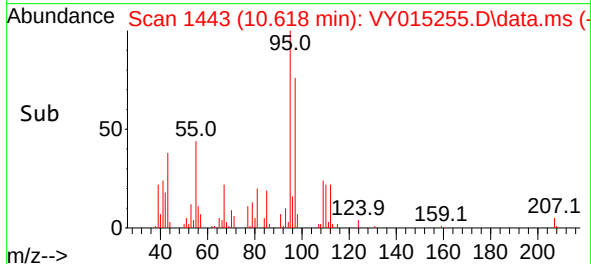
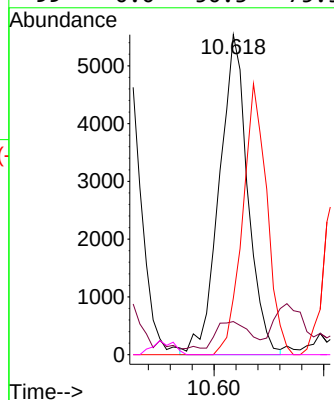
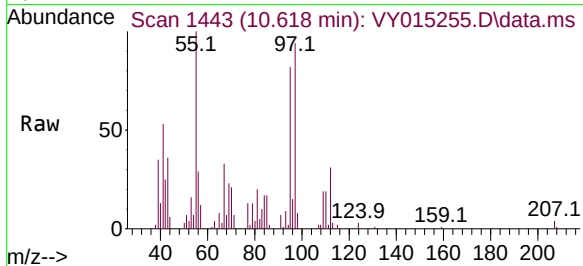




#55
1,1,2-Trichloroethane
Concen: 8.265 ug/l
RT: 10.618 min Scan# 1443
Delta R.T. -0.024 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

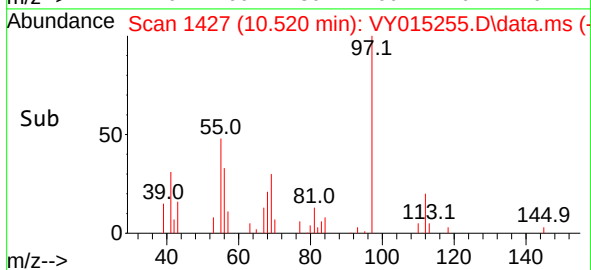
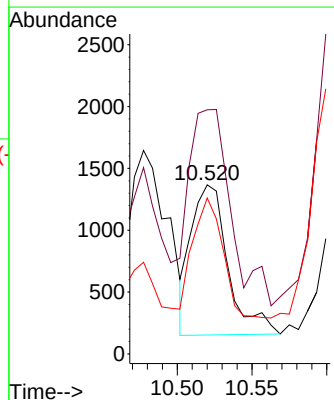
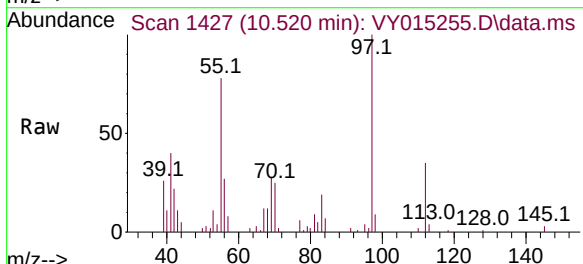
Instrument :
MSVOA_Y
ClientSampleId :
TP-01(6-7)

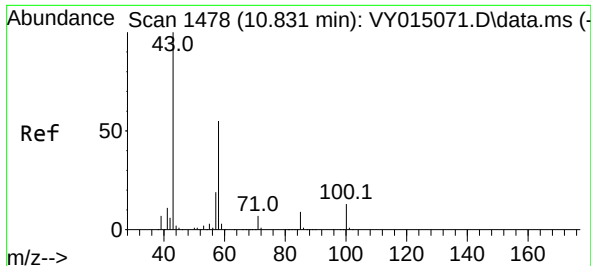
Tgt Ion:	97	Resp:	9990
Ion	Ratio	Lower	Upper
97	100		
83	8.7	72.0	108.0#
85	18.0	45.4	68.0#
99	0.0	50.3	75.5#



#56
Ethyl methacrylate
Concen: 1.175 ug/l
RT: 10.520 min Scan# 1427
Delta R.T. 0.012 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

Tgt Ion:	69	Resp:	2079
Ion	Ratio	Lower	Upper
69	100		
41	195.7	57.6	86.4#
39	82.4	34.1	51.1#





#59

2-Hexanone

Concen: 9.602 ug/l

RT: 10.800 min Scan# 1478

Delta R.T. -0.030 min

Lab File: VY015255.D

Acq: 22 Aug 2023 19:24

Instrument :

MSVOA_Y

ClientSampleId :

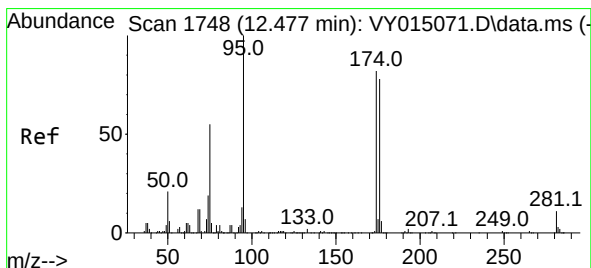
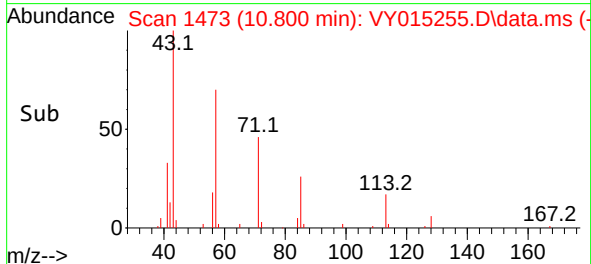
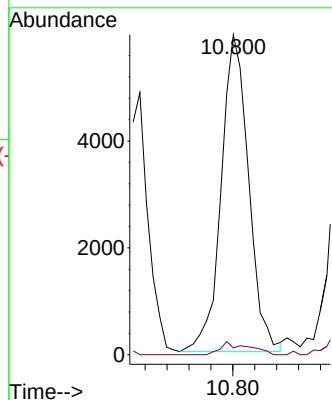
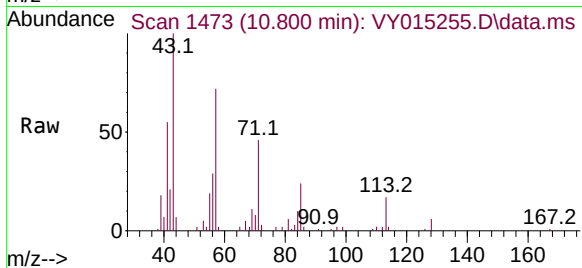
TP-01(6-7)

Tgt Ion: 43 Resp: 10336

Ion Ratio Lower Upper

43 100

58 4.1 25.1 75.3#



#62

4-Bromofluorobenzene

Concen: 49.834 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.006 min

Lab File: VY015255.D

Acq: 22 Aug 2023 19:24

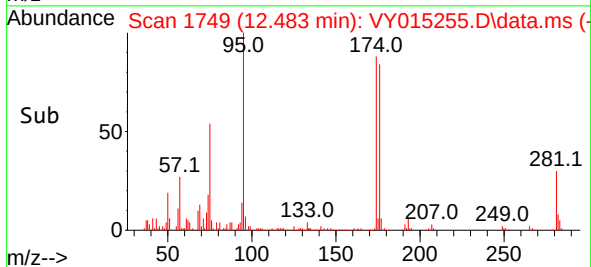
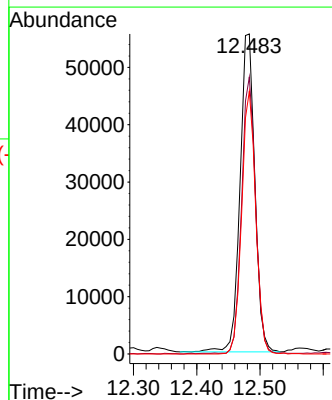
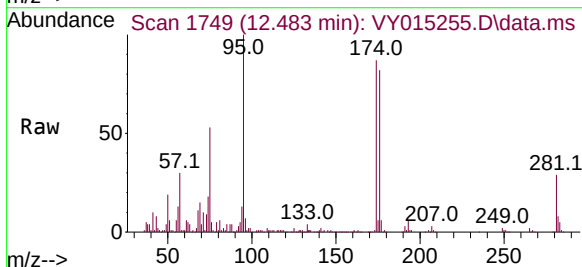
Tgt Ion: 95 Resp: 90548

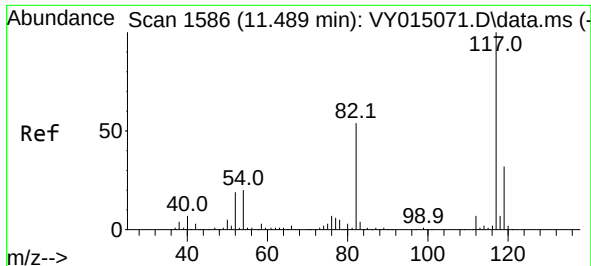
Ion Ratio Lower Upper

95 100

174 81.7 0.0 178.2

176 78.4 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY015255.D

Acq: 22 Aug 2023 19:24

Instrument :

MSVOA_Y

ClientSampleId :

TP-01(6-7)

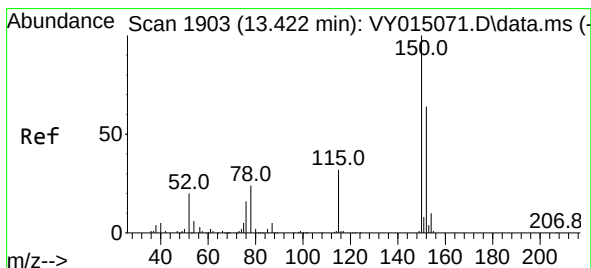
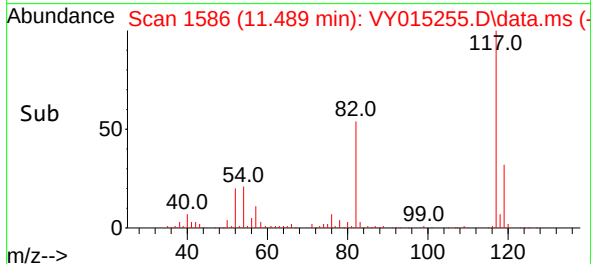
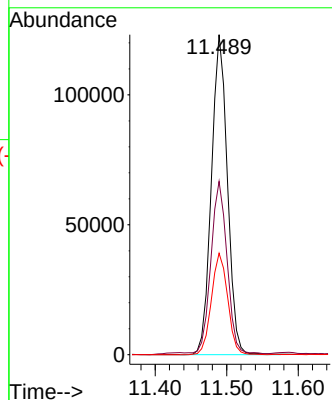
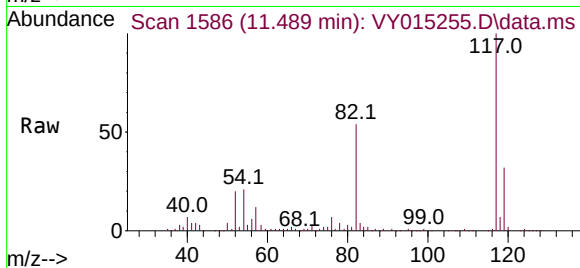
Tgt Ion:117 Resp: 191296

Ion Ratio Lower Upper

117 100

82 53.5 43.4 65.0

119 31.7 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY015255.D

Acq: 22 Aug 2023 19:24

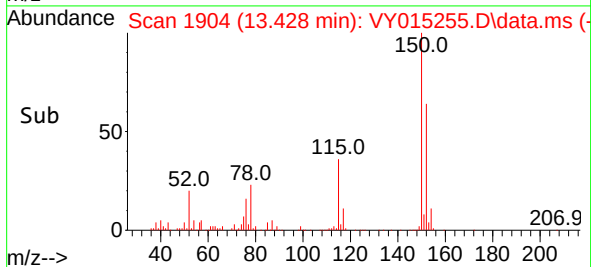
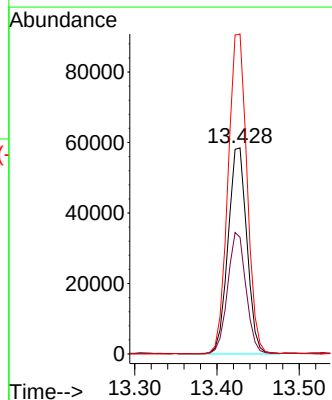
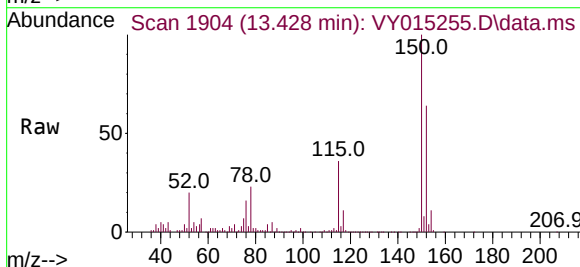
Tgt Ion:152 Resp: 93557

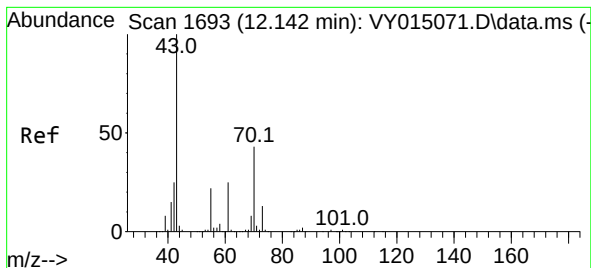
Ion Ratio Lower Upper

152 100

115 57.4 28.8 86.5

150 156.3 0.0 348.8





#74

N-amy1 acetate

Concen: 5.964 ug/l

RT: 12.123 min Scan# 1

Delta R.T. -0.018 min

Lab File: VY015255.D

Acq: 22 Aug 2023 19:24

Instrument :

MSVOA_Y

ClientSampleId :

TP-01(6-7)

Tgt Ion: 43 Resp: 12955

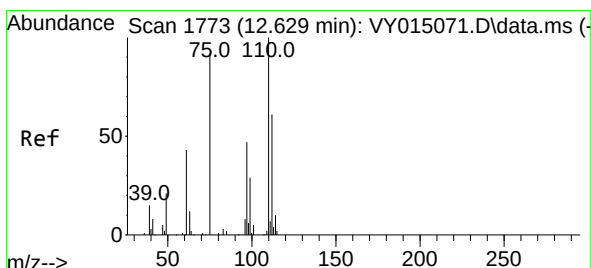
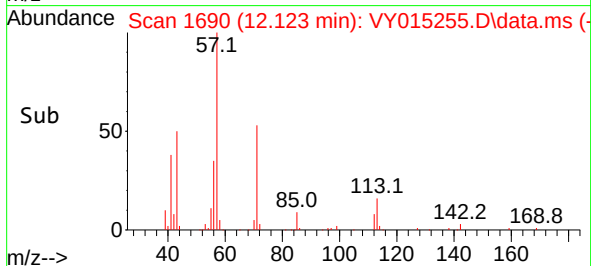
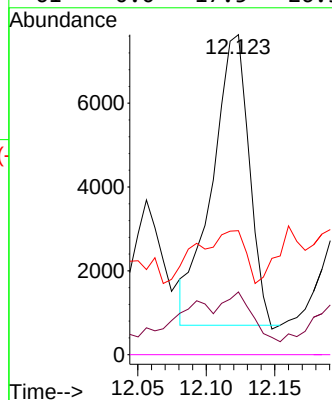
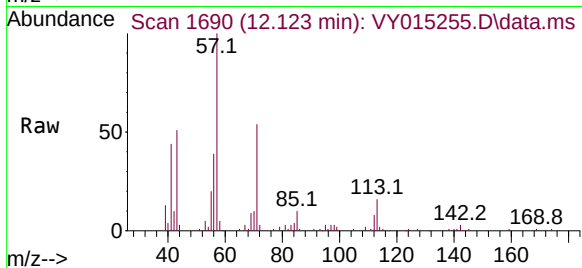
Ion Ratio Lower Upper

43 100

70 13.6 29.7 44.5#

55 23.3 18.3 27.5

61 0.0 17.5 26.3#



#76

1,2,3-Trichloropropane

Concen: 42.295 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY015255.D

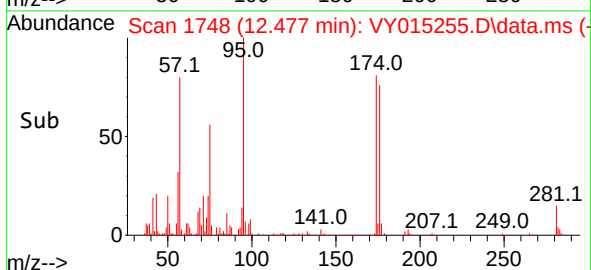
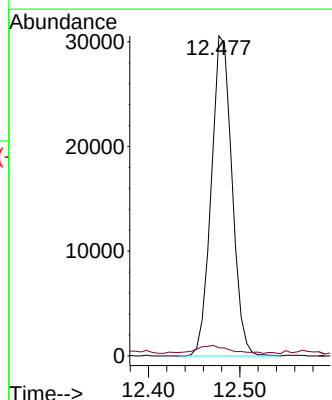
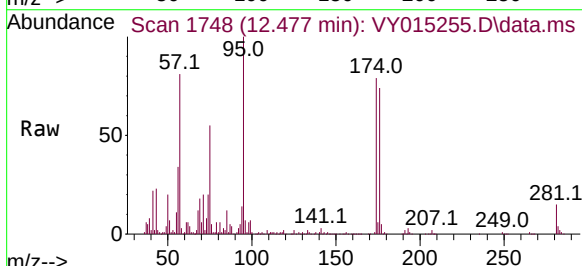
Acq: 22 Aug 2023 19:24

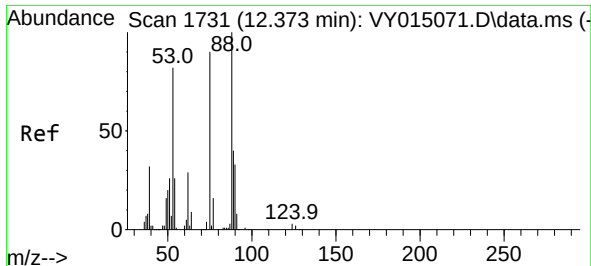
Tgt Ion: 75 Resp: 48075

Ion Ratio Lower Upper

75 100

77 4.0 0.0 0.0#

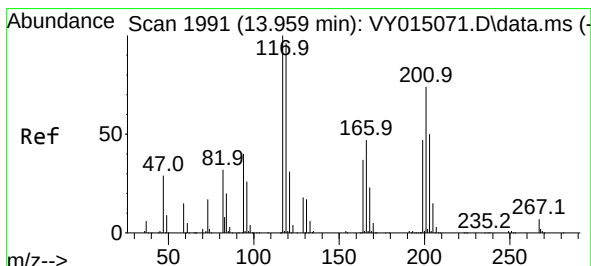
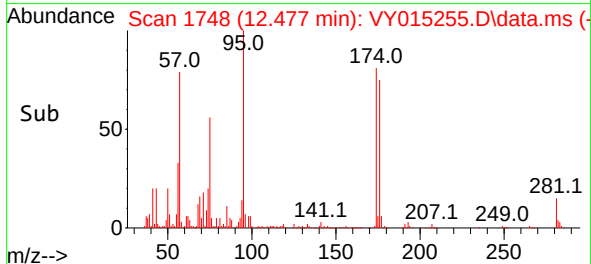
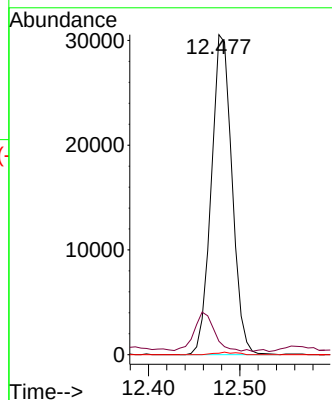
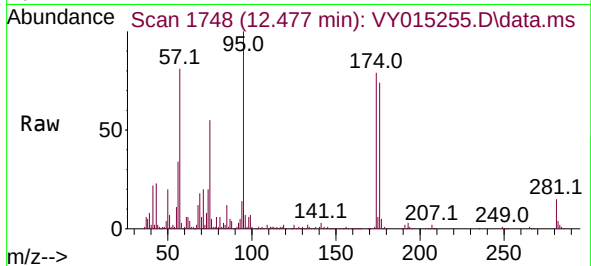




#81
trans-1,4-Dichloro-2-butene
Concen: 92.901 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

Instrument :
MSVOA_Y
ClientSampleId :
TP-01(6-7)

Tgt Ion: 75 Resp: 48075
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.8 37.4 56.0#



#90
Hexachloroethane
Concen: 4.740 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY015255.D
Acq: 22 Aug 2023 19:24

Tgt Ion: 117 Resp: 5240
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#

