

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072225\
 Data File : VY023045.D
 Acq On : 22 Jul 2025 14:48
 Operator : SY/MD
 Sample : Q2668-03
 Misc : 4.69g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-2-VOC

Quant Time: Jul 23 02:04:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 19 01:50:49 2025
 Response via : Initial Calibration

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

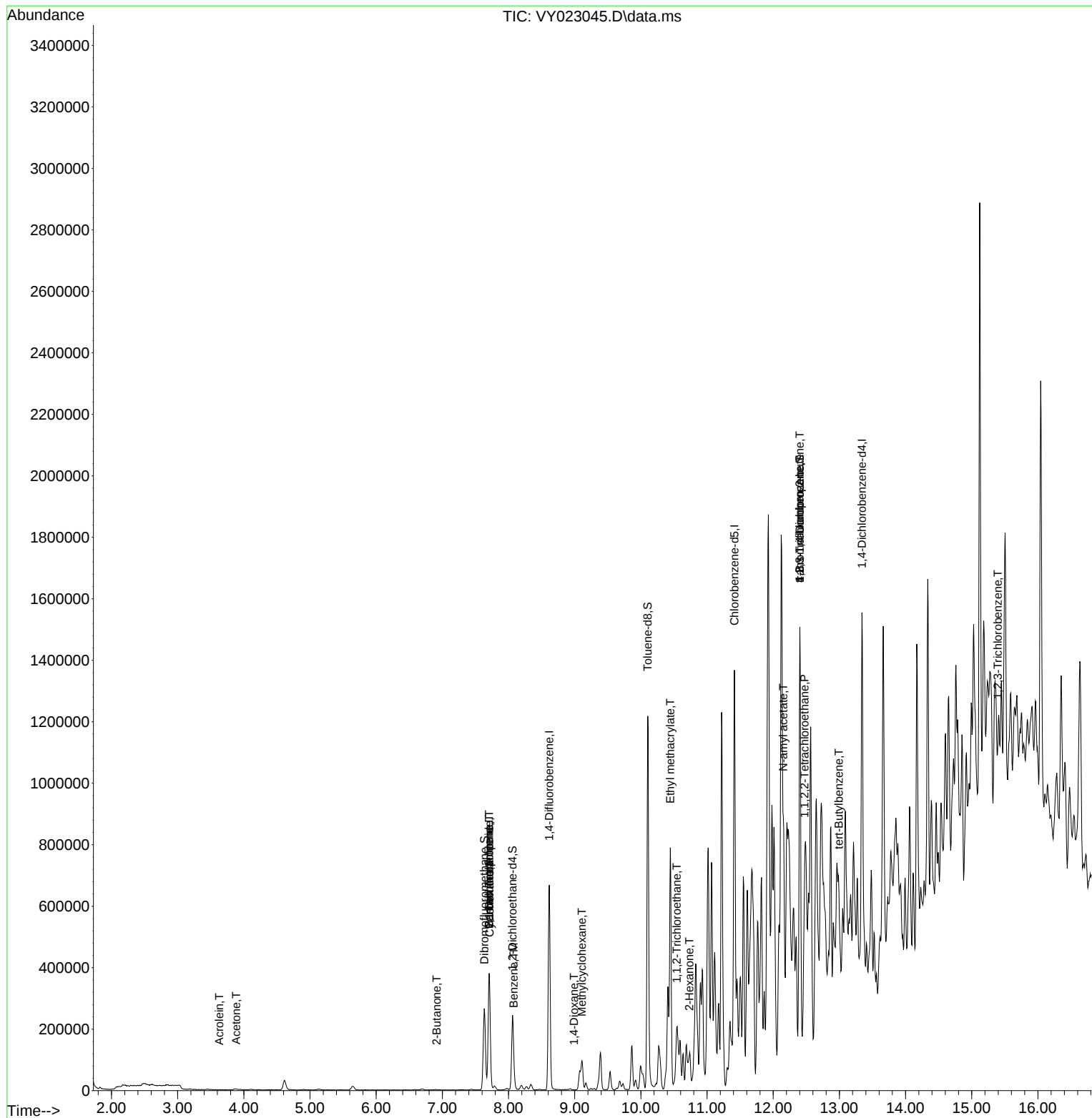
Internal Standards						
1) Pentafluorobenzene	7.707	168	280440	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	565707	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	625729	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	296011	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	172831	60.878	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 121.760%	
35) Dibromofluoromethane	7.634	113	187149	52.153	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.300%	
50) Toluene-d8	10.103	98	734435	51.610	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 103.220%	
62) 4-Bromofluorobenzene	12.401	95	335365	74.866	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 149.740%#	
Target Compounds						
					Qvalue	
13) Acrolein	3.629	56	105	1.301	ug/l #	52
16) Acetone	3.885	43	6575	12.776	ug/l	99
20) Methylene Chloride	4.616	84	22594	Below Cal		89
25) 2-Butanone	6.915	43	2172	2.942	ug/l #	70
31) Cyclohexane	7.713	56	8631	1.527	ug/l #	35
36) 1,1-Dichloropropene	7.707	75	23807	4.212	ug/l #	50
38) Carbon Tetrachloride	7.707	117	29015	4.725	ug/l #	18
39) Methylcyclohexane	9.109	83	34616	4.731	ug/l	95
40) Benzene	8.079	78	21371	1.256	ug/l	97
49) 1,4-Dioxane	8.987	88	23	1.062	ug/l #	21
55) 1,1,2-Trichloroethane	10.542	97	62238	23.050	ug/l #	21
56) Ethyl methacrylate	10.445	69	69926	20.746	ug/l #	1
59) 2-Hexanone	10.731	43	46968	33.760	ug/l #	32
74) N-amyl acetate	12.152	43	258832	54.704	ug/l #	70
75) 1,1,2,2-Tetrachloroethane	12.475	83	43997	12.114	ug/l #	26
76) 1,2,3-Trichloropropane	12.401	75	160548	43.526	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	160548	129.641	ug/l #	16
83) tert-Butylbenzene	12.993	119	28310	1.583	ug/l	81
96) 1,2,3-Trichlorobenzene	15.395	180	5826	1.445	ug/l	93

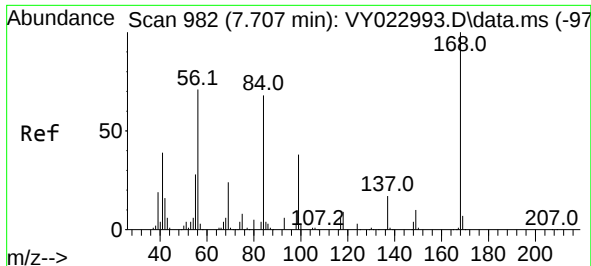
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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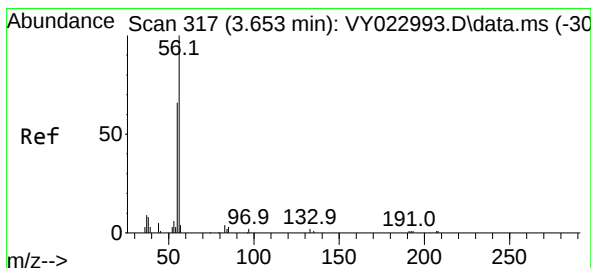
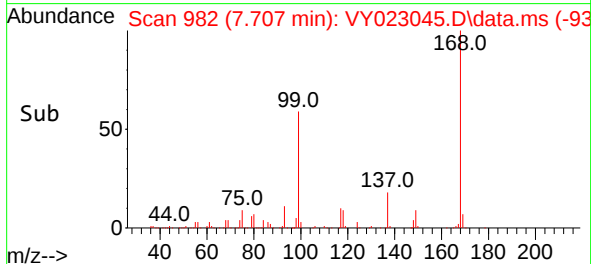
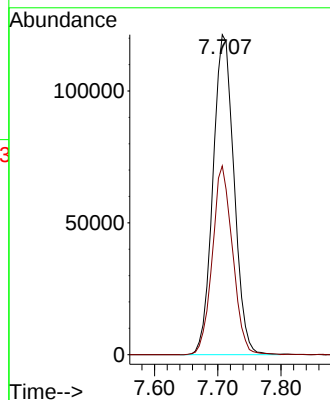
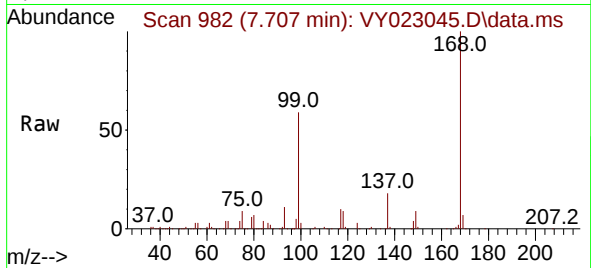




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

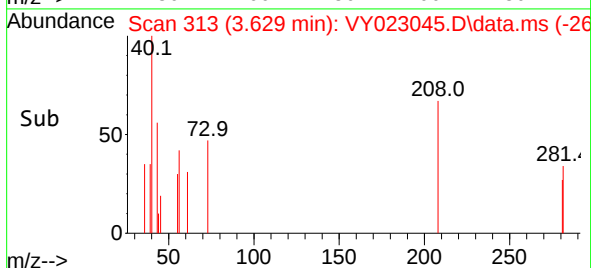
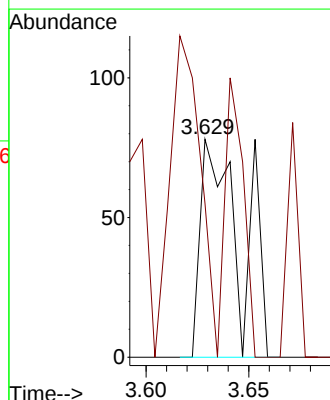
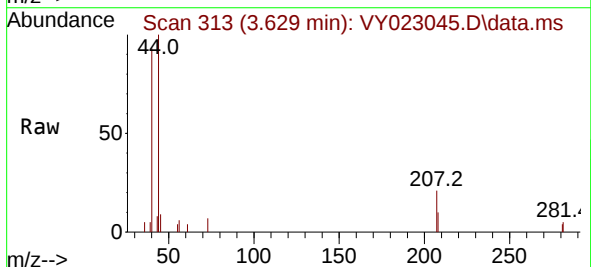
Instrument :
MSVOA_Y
ClientSampleId :
TP-2-VOC

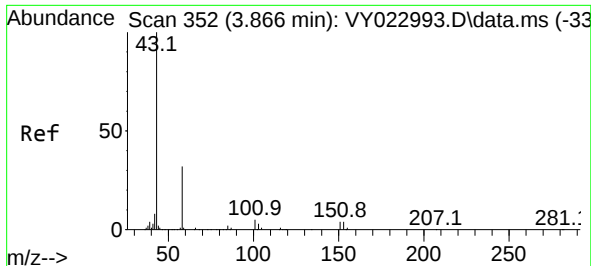
Tgt Ion:168 Resp: 280440
Ion Ratio Lower Upper
168 100
99 59.0 44.4 66.6



#13
Acrolein
Concen: 1.301 ug/l
RT: 3.629 min Scan# 313
Delta R.T. -0.024 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

Tgt Ion: 56 Resp: 105
Ion Ratio Lower Upper
56 100
55 112.4 57.8 86.6#





#16

Acetone

Concen: 12.776 ug/l

RT: 3.885 min Scan# 3

Delta R.T. 0.018 min

Lab File: VY023045.D

Acq: 22 Jul 2025 14:48

Instrument :

MSVOA_Y

ClientSampleId :

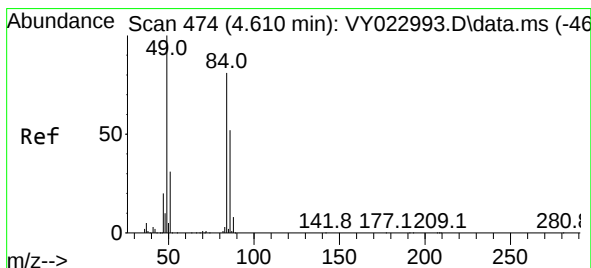
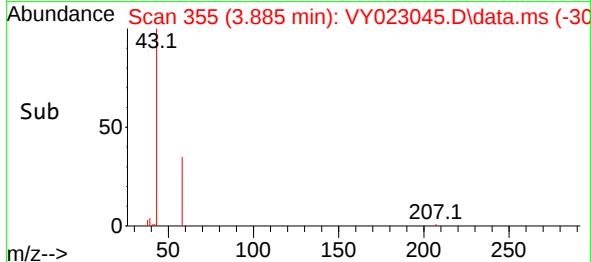
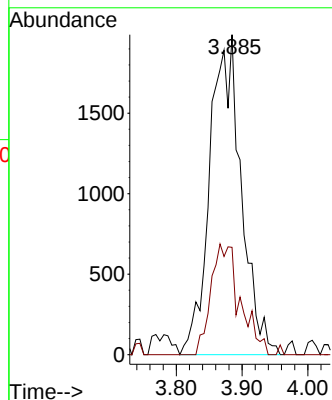
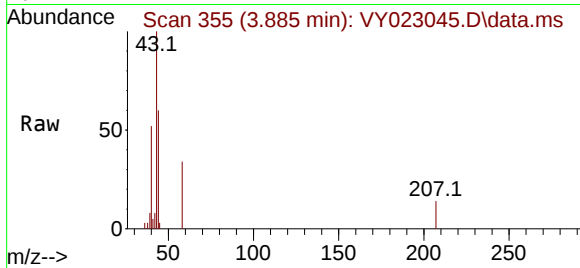
TP-2-VOC

Tgt Ion: 43 Resp: 6575

Ion Ratio Lower Upper

43 100

58 33.6 26.2 39.4



#20

Methylene Chloride

Concen: Below Cal

RT: 4.616 min Scan# 475

Delta R.T. 0.006 min

Lab File: VY023045.D

Acq: 22 Jul 2025 14:48

Tgt Ion: 84 Resp: 22594

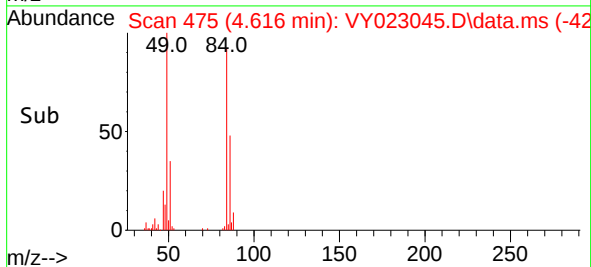
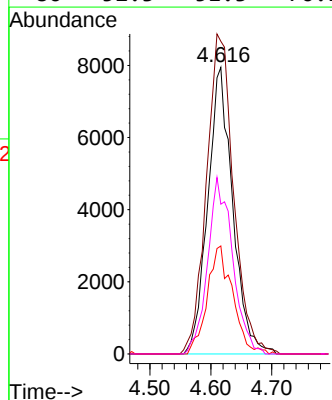
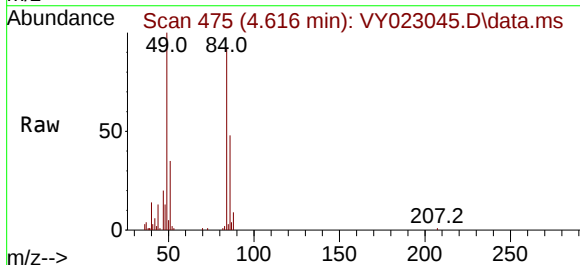
Ion Ratio Lower Upper

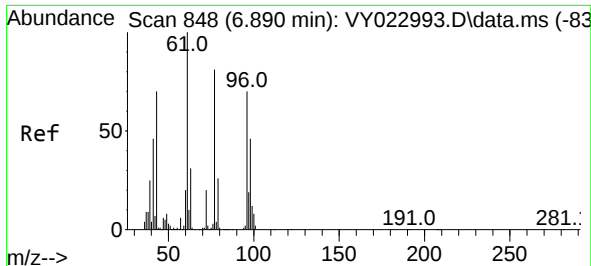
84 100

49 109.1 98.2 147.4

51 37.7 30.5 45.7

86 52.3 51.3 76.9

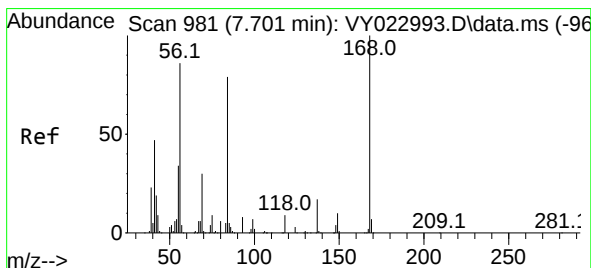
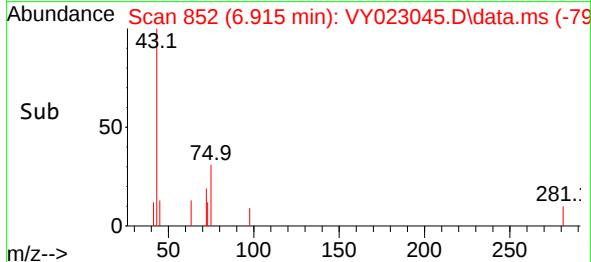
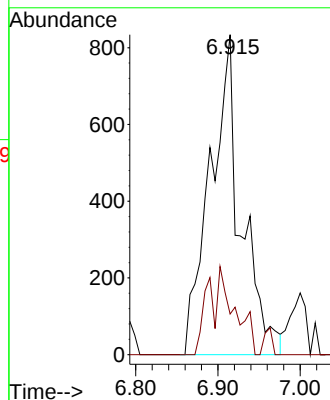
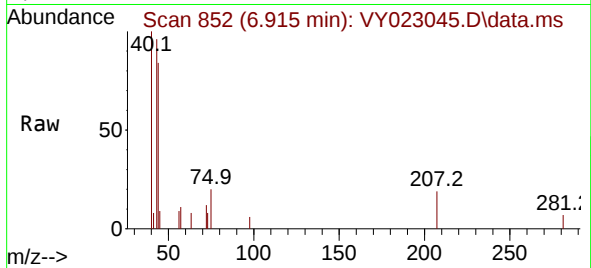




#25
2-Butanone
Concen: 2.942 ug/l
RT: 6.915 min Scan# 81
Delta R.T. 0.024 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

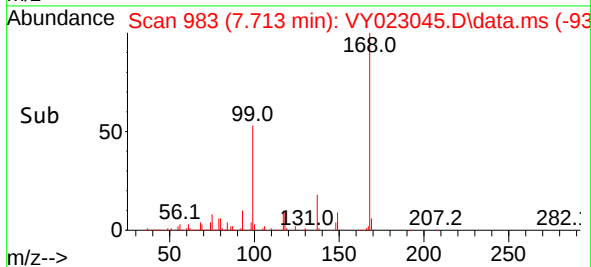
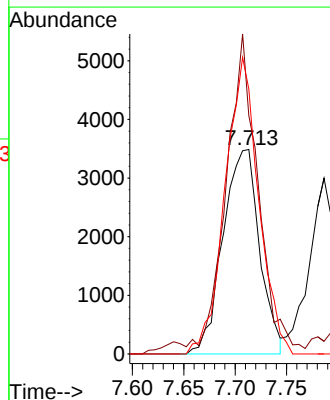
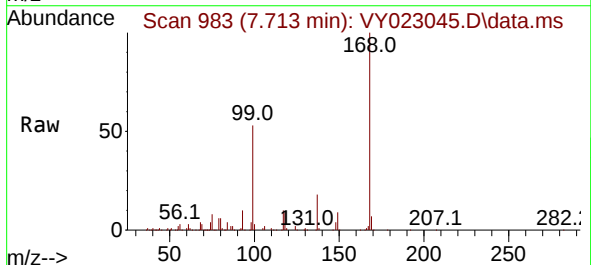
Instrument :
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TP-2-VOC

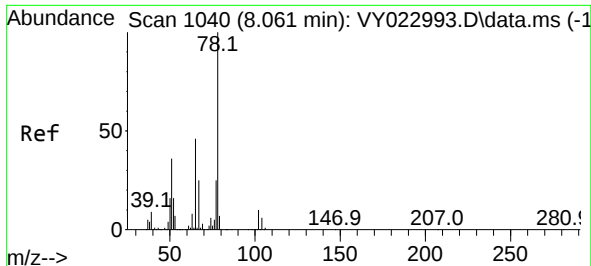
Tgt Ion: 43 Resp: 2172
Ion Ratio Lower Upper
43 100
72 12.7 22.9 34.3#



#31
Cyclohexane
Concen: 1.527 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.012 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

Tgt Ion: 56 Resp: 8631
Ion Ratio Lower Upper
56 100
69 111.4 28.1 42.1#
84 129.5 73.5 110.3#





#33

1,2-Dichloroethane-d4

Concen: 60.878 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY023045.D

Acq: 22 Jul 2025 14:48

Instrument :

MSVOA_Y

ClientSampleId :

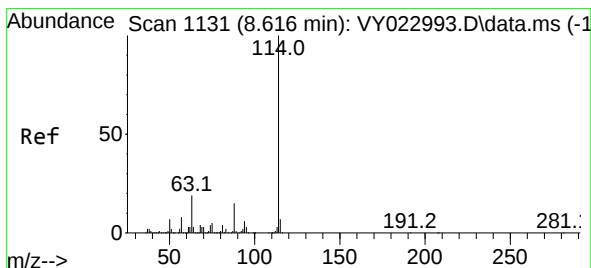
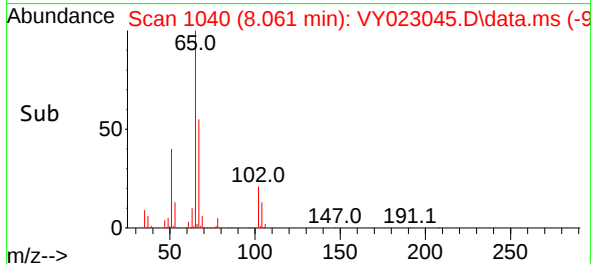
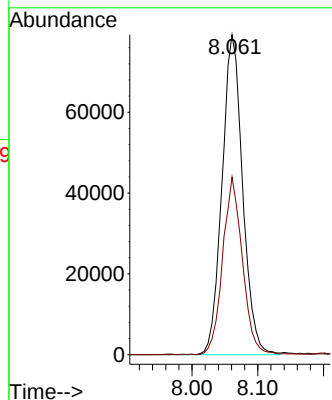
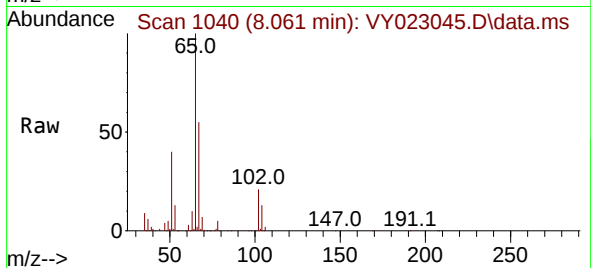
TP-2-VOC

Tgt Ion: 65 Resp: 172831

Ion Ratio Lower Upper

65 100

67 53.4 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023045.D

Acq: 22 Jul 2025 14:48

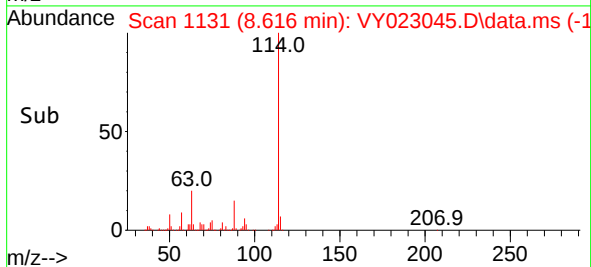
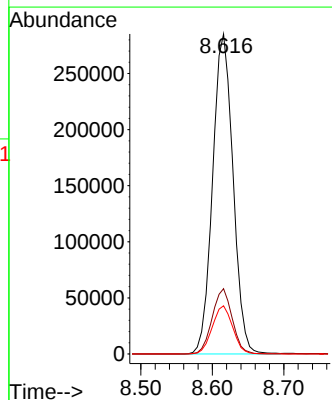
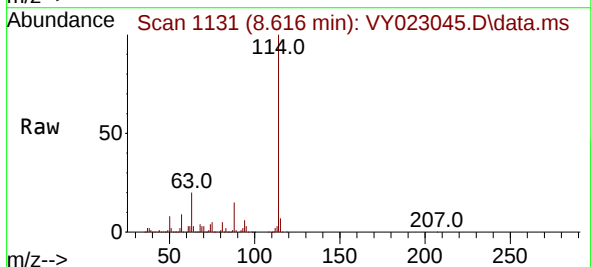
Tgt Ion: 114 Resp: 565707

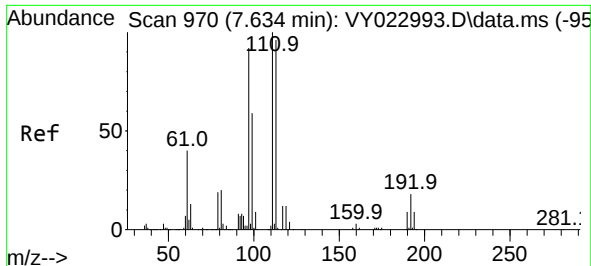
Ion Ratio Lower Upper

114 100

63 20.4 0.0 38.8

88 15.1 0.0 30.2

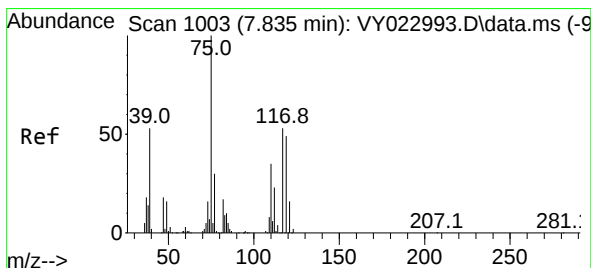
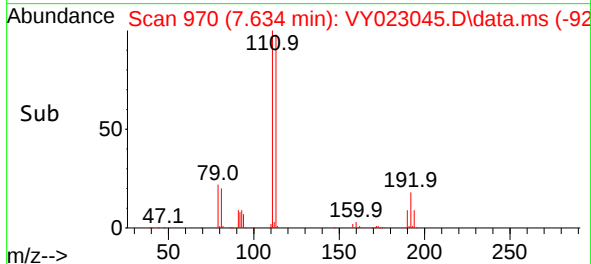
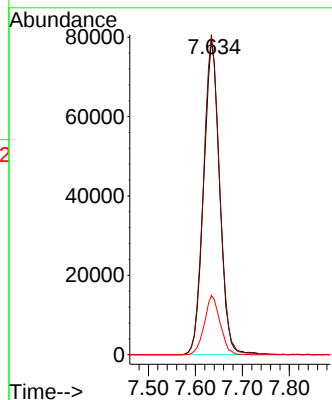
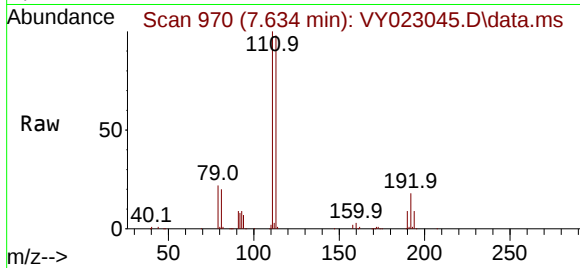




#35
Dibromofluoromethane
Concen: 52.153 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

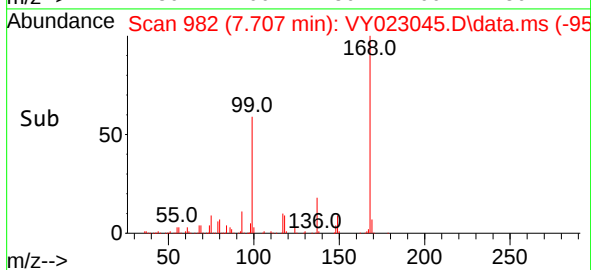
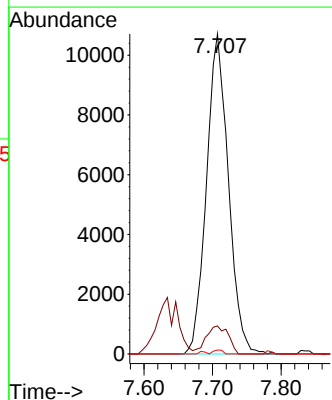
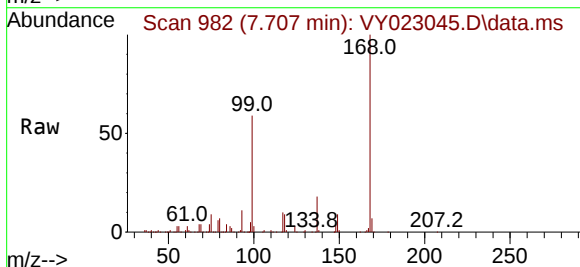
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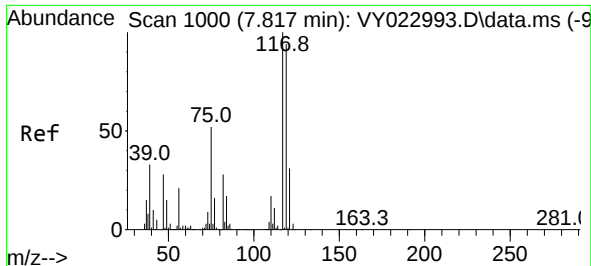
Tgt Ion:113 Resp: 187149
Ion Ratio Lower Upper
113 100
111 102.3 83.2 124.8
192 18.5 15.3 22.9



#36
1,1-Dichloropropene
Concen: 4.212 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

Tgt Ion: 75 Resp: 23807
Ion Ratio Lower Upper
75 100
110 8.9 17.3 51.9#
77 0.0 24.6 37.0#

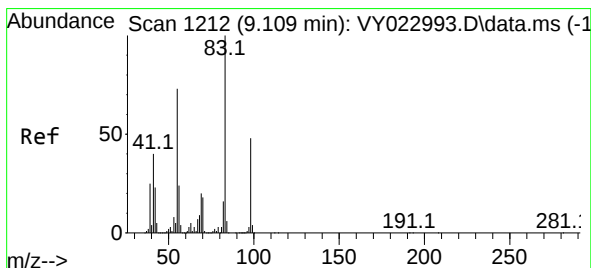
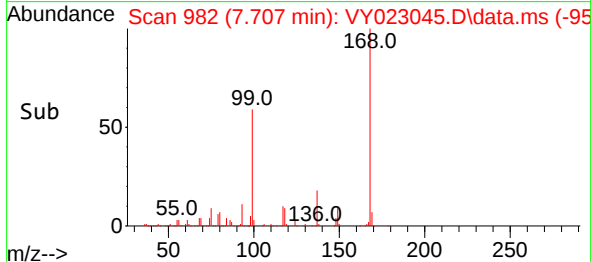
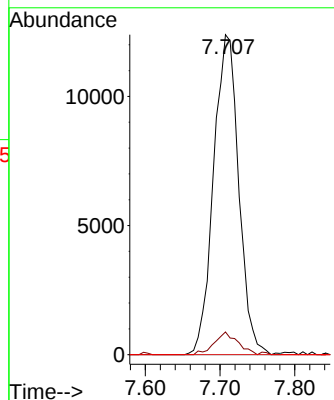
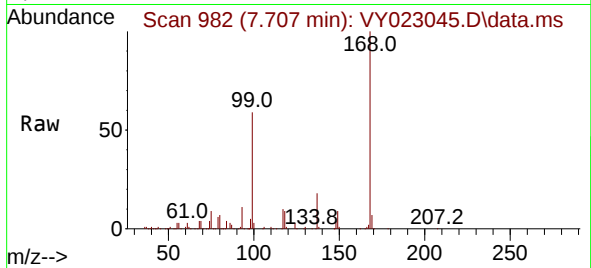




#38
Carbon Tetrachloride
Concen: 4.725 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

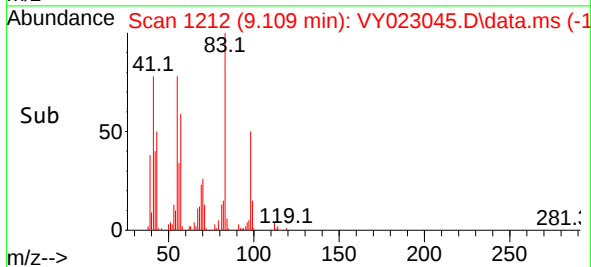
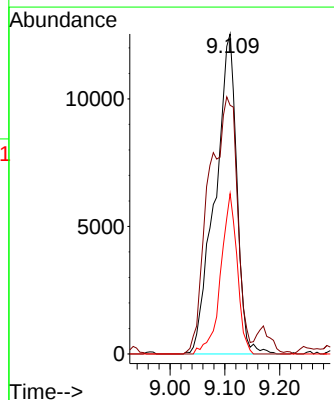
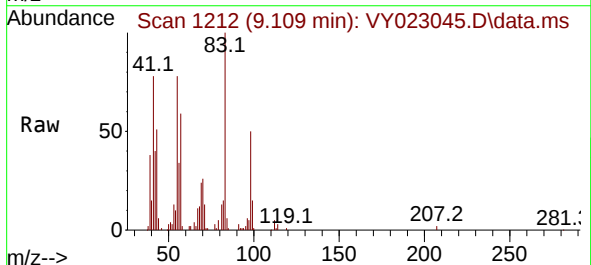
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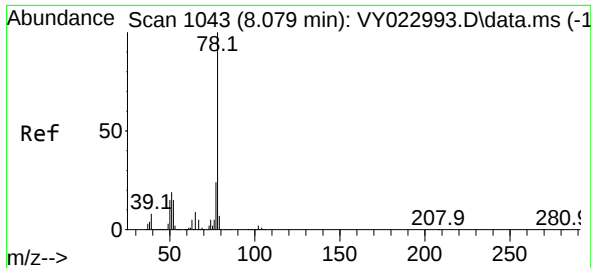
Tgt Ion:117 Resp: 29015
Ion Ratio Lower Upper
117 100
119 7.1 74.9 112.3#
121 0.0 24.6 37.0#



#39
Methylcyclohexane
Concen: 4.731 ug/l
RT: 9.109 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

Tgt Ion: 83 Resp: 34616
Ion Ratio Lower Upper
83 100
55 77.7 58.1 87.1
98 50.1 38.5 57.7

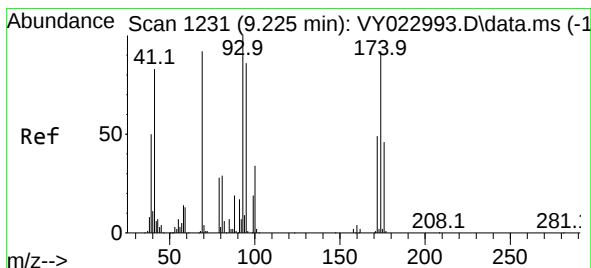
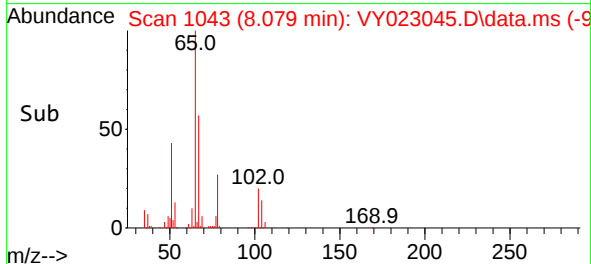
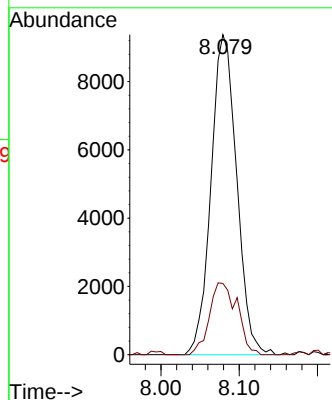
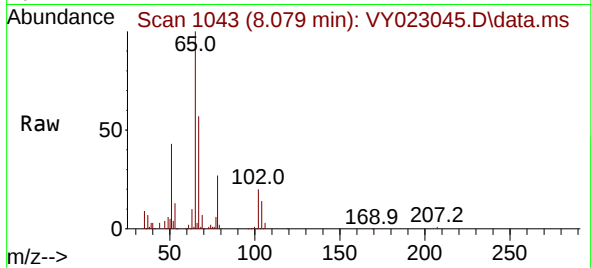




#40
Benzene
Concen: 1.256 ug/l
RT: 8.079 min Scan# 1192
Delta R.T. 0.000 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

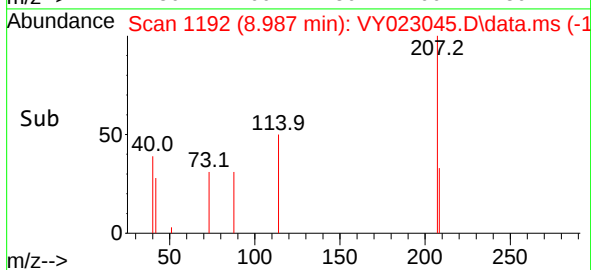
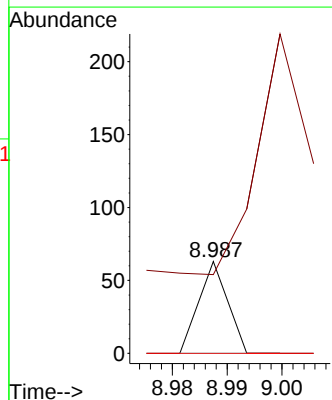
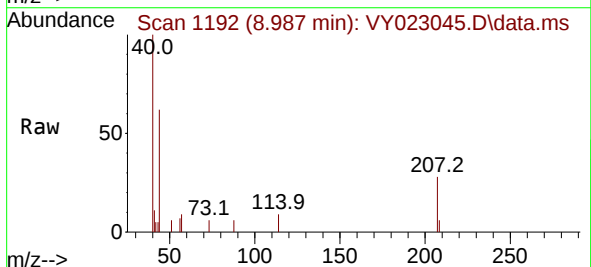
Instrument :
MSVOA_Y
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TP-2-VOC

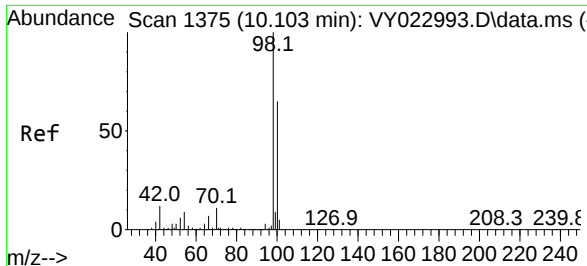
Tgt Ion: 78 Resp: 21371
Ion Ratio Lower Upper
78 100
77 22.3 19.0 28.4



#49
1,4-Dioxane
Concen: 1.062 ug/l
RT: 8.987 min Scan# 1192
Delta R.T. -0.238 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

Tgt Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 0.0 28.7 43.1#
58 0.0 59.8 89.6#

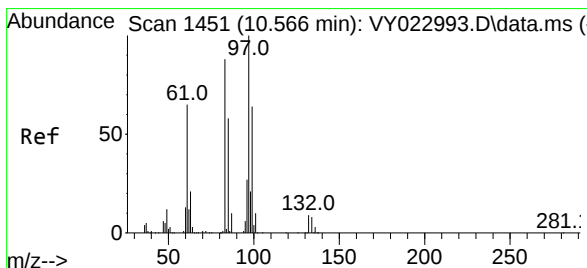
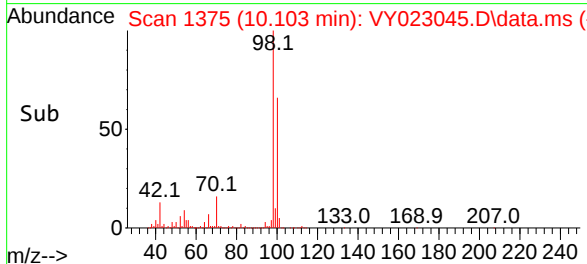
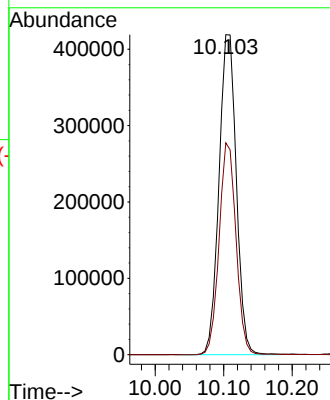
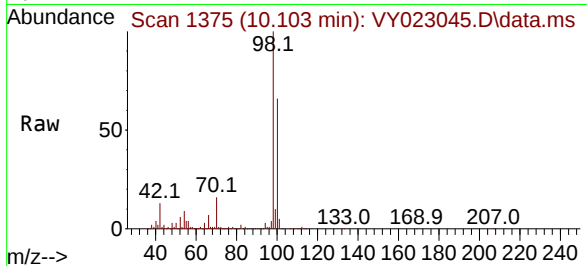




#50
Toluene-d8
Concen: 51.610 ug/l
RT: 10.103 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

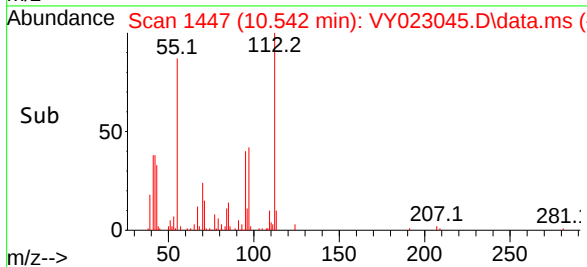
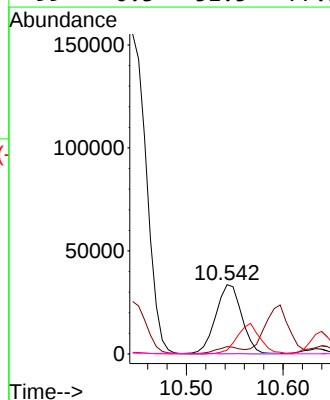
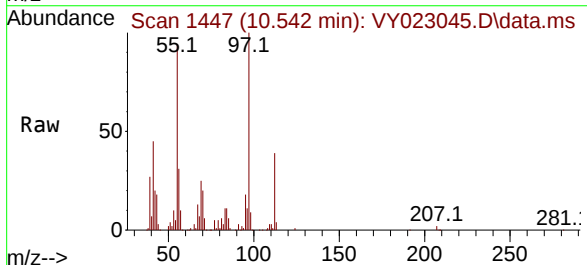
Instrument :
MSVOA_Y
ClientSampleId :
TP-2-VOC

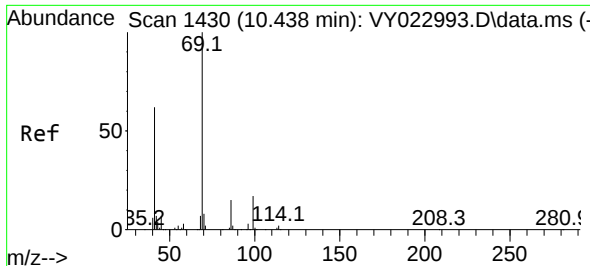
Tgt Ion: 98 Resp: 734435
Ion Ratio Lower Upper
98 100
100 64.6 52.2 78.2



#55
1,1,2-Trichloroethane
Concen: 23.050 ug/l
RT: 10.542 min Scan# 1447
Delta R.T. -0.024 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

Tgt Ion: 97 Resp: 62238
Ion Ratio Lower Upper
97 100
83 9.9 70.2 105.2#
85 5.6 46.2 69.2#
99 0.3 51.5 77.3#

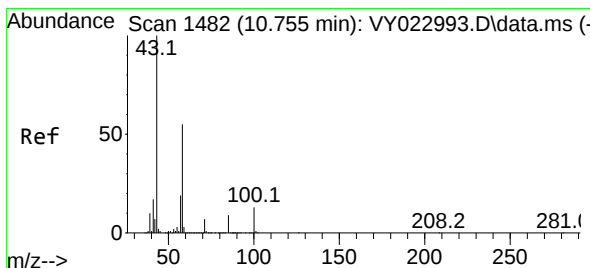
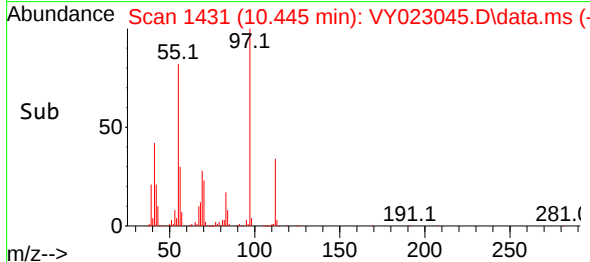
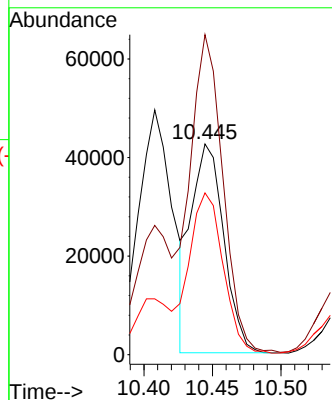
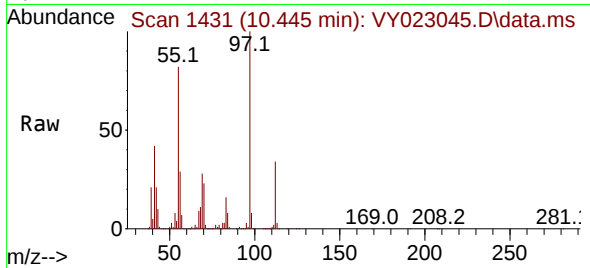




#56
Ethyl methacrylate
Concen: 20.746 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

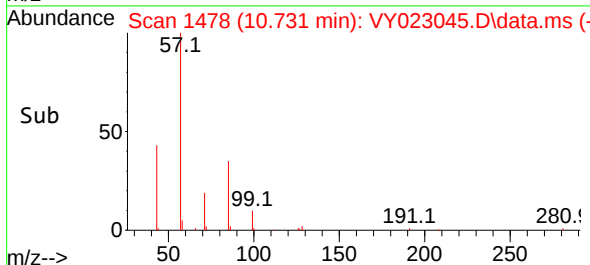
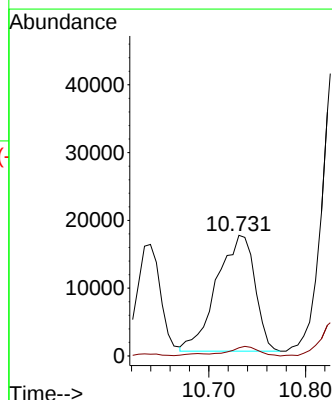
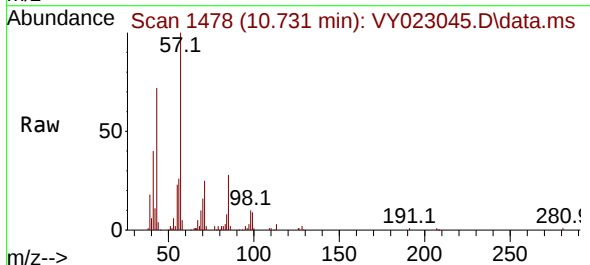
Instrument :
MSVOA_Y
ClientSampleId :
TP-2-VOC

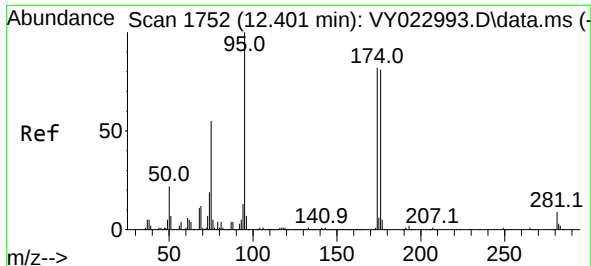
Tgt Ion: 69 Resp: 69926
Ion Ratio Lower Upper
69 100
41 156.4 51.0 76.4#
39 80.7 30.6 46.0#



#59
2-Hexanone
Concen: 33.760 ug/l
RT: 10.731 min Scan# 1478
Delta R.T. -0.024 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

Tgt Ion: 43 Resp: 46968
Ion Ratio Lower Upper
43 100
58 6.1 28.1 84.3#

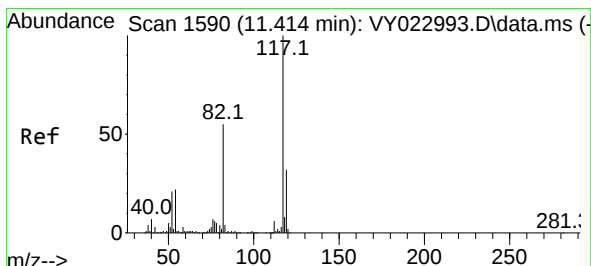
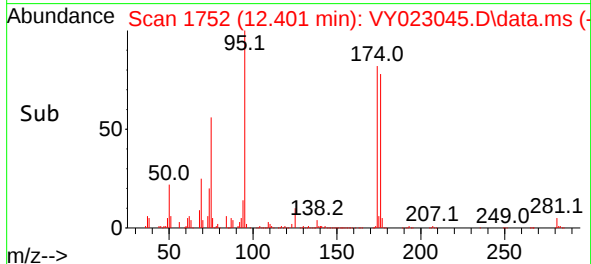
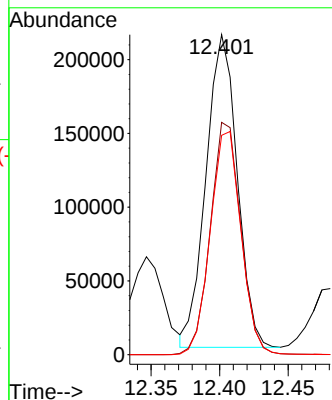
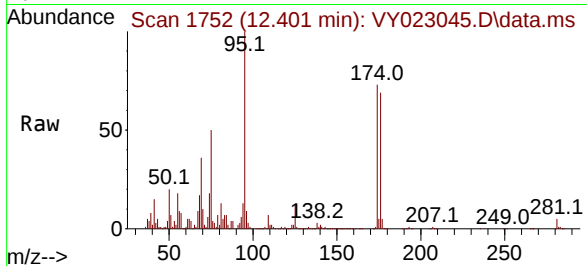




#62
4-Bromofluorobenzene
Concen: 74.866 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

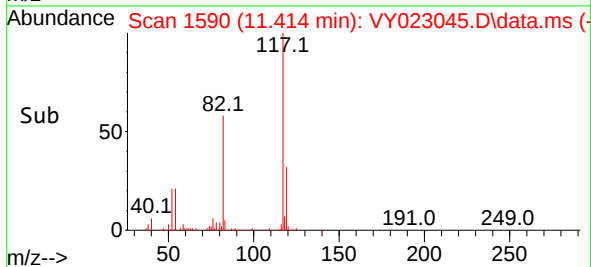
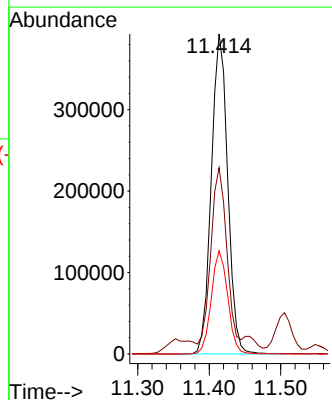
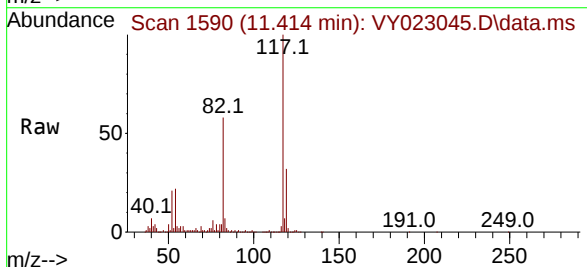
Instrument :
MSVOA_Y
ClientSampleId :
TP-2-VOC

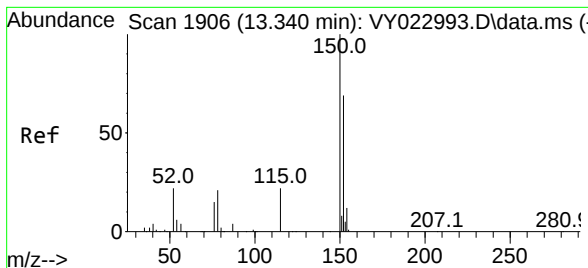
Tgt Ion: 95 Resp: 335365
Ion Ratio Lower Upper
95 100
174 72.8 0.0 170.8
176 70.7 0.0 163.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

Tgt Ion: 117 Resp: 625729
Ion Ratio Lower Upper
117 100
82 54.1 44.3 66.5
119 32.3 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VY023045.D

Acq: 22 Jul 2025 14:48

Instrument :

MSVOA_Y

ClientSampleId :

TP-2-VOC

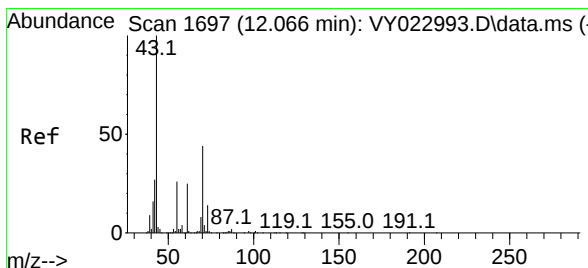
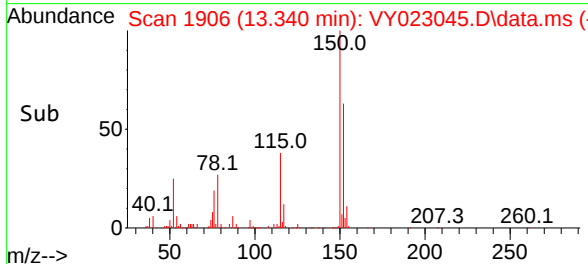
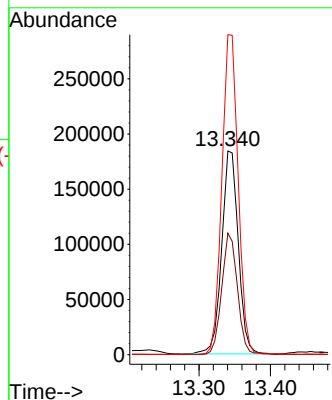
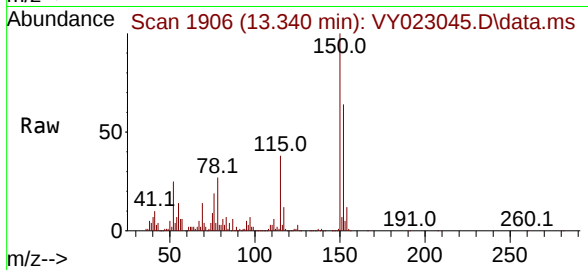
Tgt Ion:152 Resp: 296011

Ion Ratio Lower Upper

152 100

115 56.7 29.4 88.2

150 154.5 0.0 350.0



#74

N-ethyl acetate

Concen: 54.704 ug/l

RT: 12.152 min Scan# 1711

Delta R.T. 0.085 min

Lab File: VY023045.D

Acq: 22 Jul 2025 14:48

Tgt Ion: 43 Resp: 258832

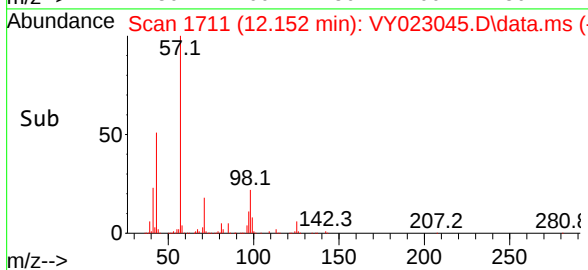
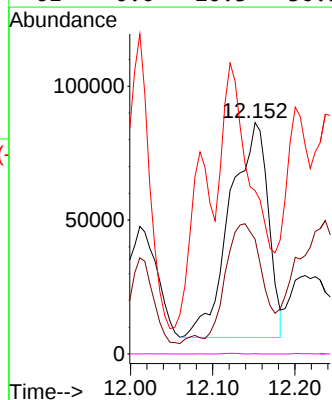
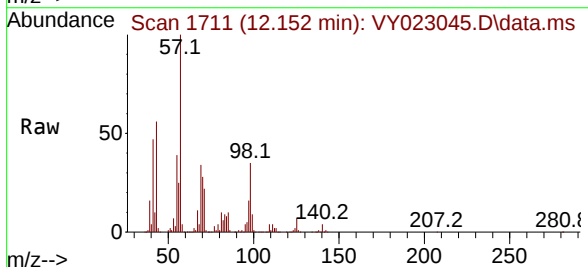
Ion Ratio Lower Upper

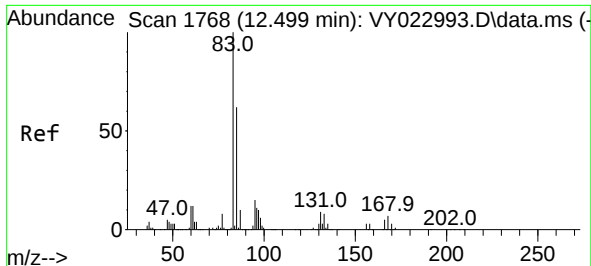
43 100

70 49.3 36.2 54.2

55 0.0 20.9 31.3#

61 0.0 20.3 30.5#

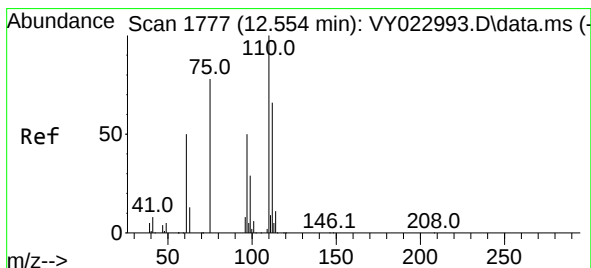
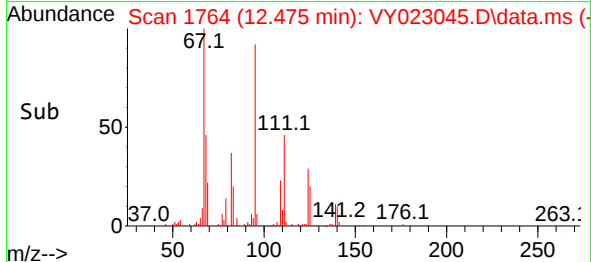
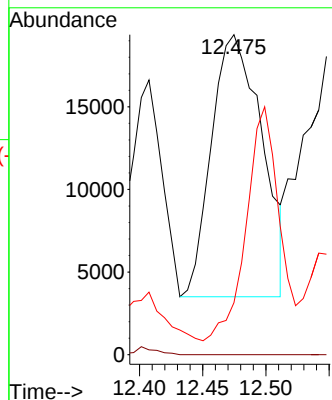
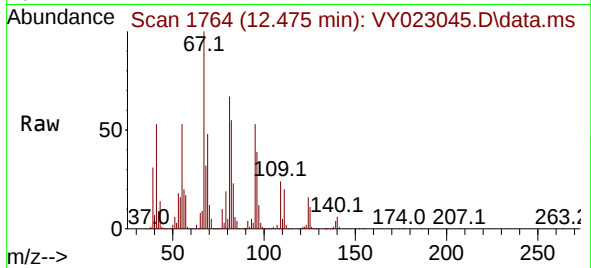




#75
1,1,2-Tetrachloroethane
Concen: 12.114 ug/l
RT: 12.475 min Scan# 1752
Delta R.T. -0.024 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

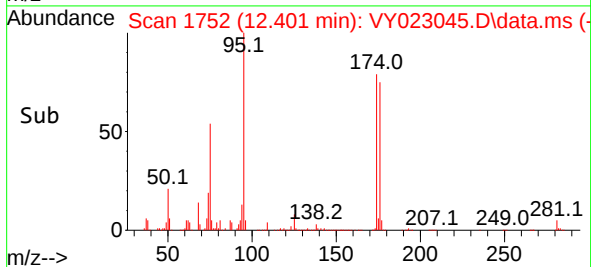
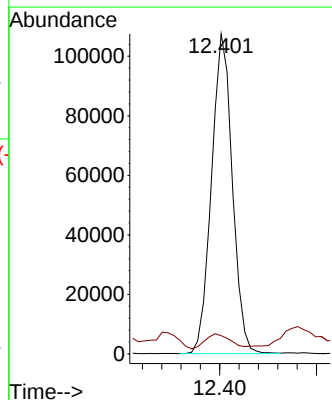
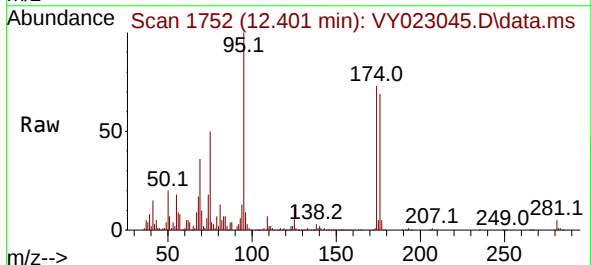
Instrument :
MSVOA_Y
ClientSampleId :
TP-2-VOC

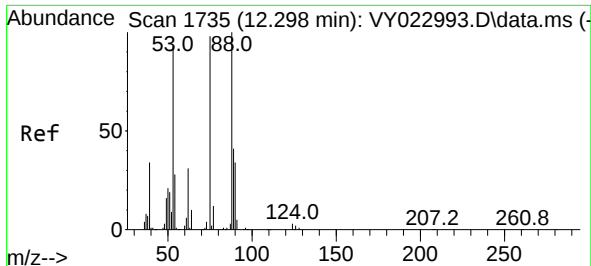
Tgt Ion: 83 Resp: 43997
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.4#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 43.526 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

Tgt Ion: 75 Resp: 160548
Ion Ratio Lower Upper
75 100
77 5.6 0.0 0.0#

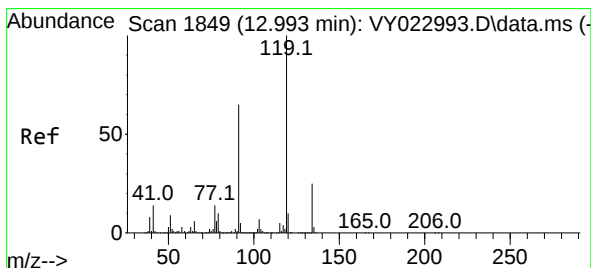
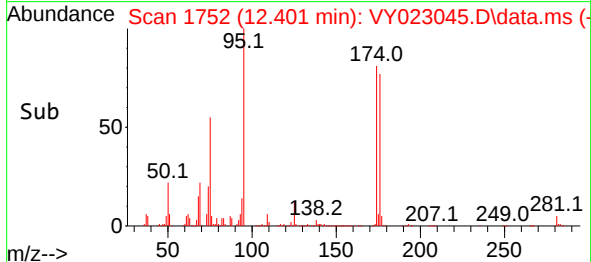
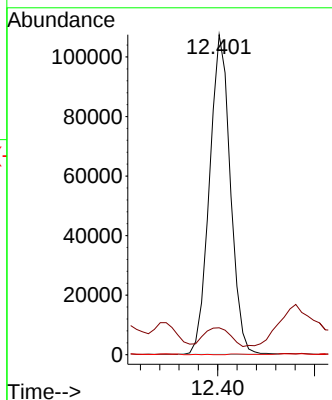
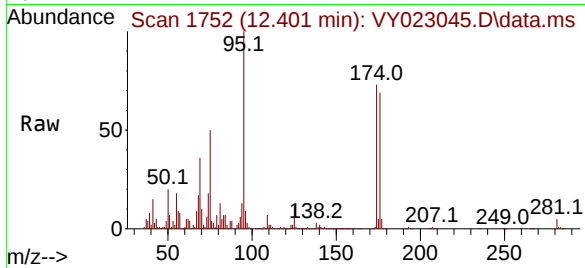




#81
 trans-1,4-Dichloro-2-butene
 Concen: 129.641 ug/l
 RT: 12.401 min Scan# 1752
 Delta R.T. 0.104 min
 Lab File: VY023045.D
 Acq: 22 Jul 2025 14:48

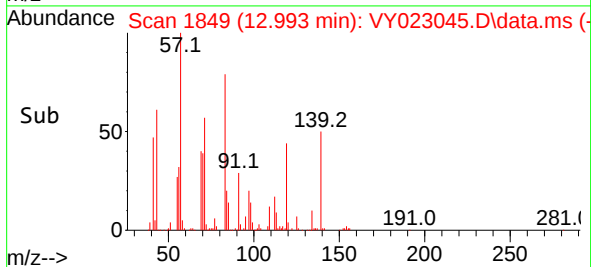
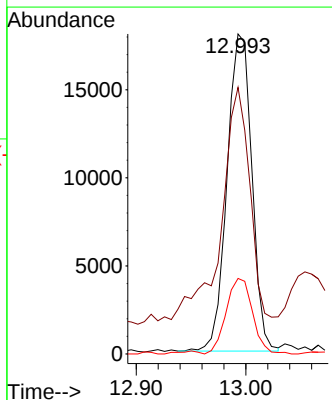
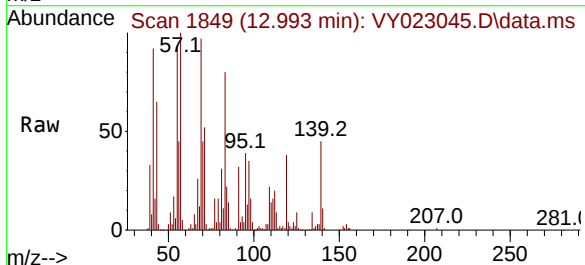
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-2-VOC

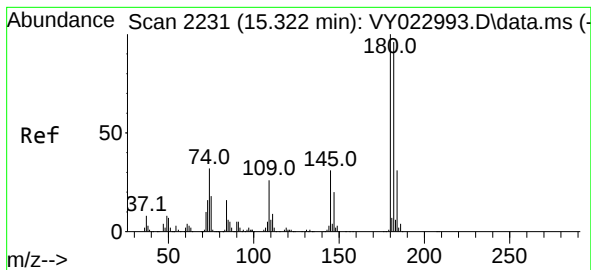
Tgt Ion: 75 Resp: 160548
 Ion Ratio Lower Upper
 75 100
 53 6.8 76.1 114.1#
 89 0.2 36.1 54.1#



#83
 tert-Butylbenzene
 Concen: 1.583 ug/l
 RT: 12.993 min Scan# 1849
 Delta R.T. 0.000 min
 Lab File: VY023045.D
 Acq: 22 Jul 2025 14:48

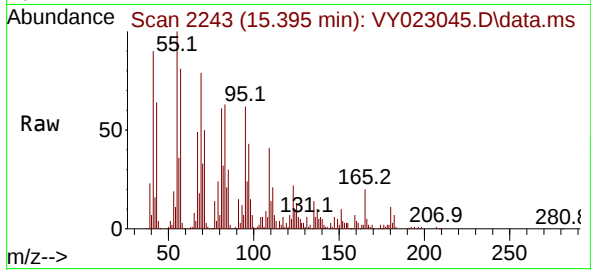
Tgt Ion: 119 Resp: 28310
 Ion Ratio Lower Upper
 119 100
 91 84.2 32.0 96.2
 134 25.3 12.6 37.6





#96
1,2,3-Trichlorobenzene
Concen: 1.445 ug/l
RT: 15.395 min Scan# 21
Delta R.T. 0.073 min
Lab File: VY023045.D
Acq: 22 Jul 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
TP-2-VOC



Tgt Ion:	180	Resp:	5826
Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.3	142.0
145	46.1	15.8	47.4

