

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039191.D
 Acq On : 25 Sep 2025 18:55
 Operator : SY/MD
 Sample : Q3195-27
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 TB-01-091525

Quant Time: Sep 26 01:36:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

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

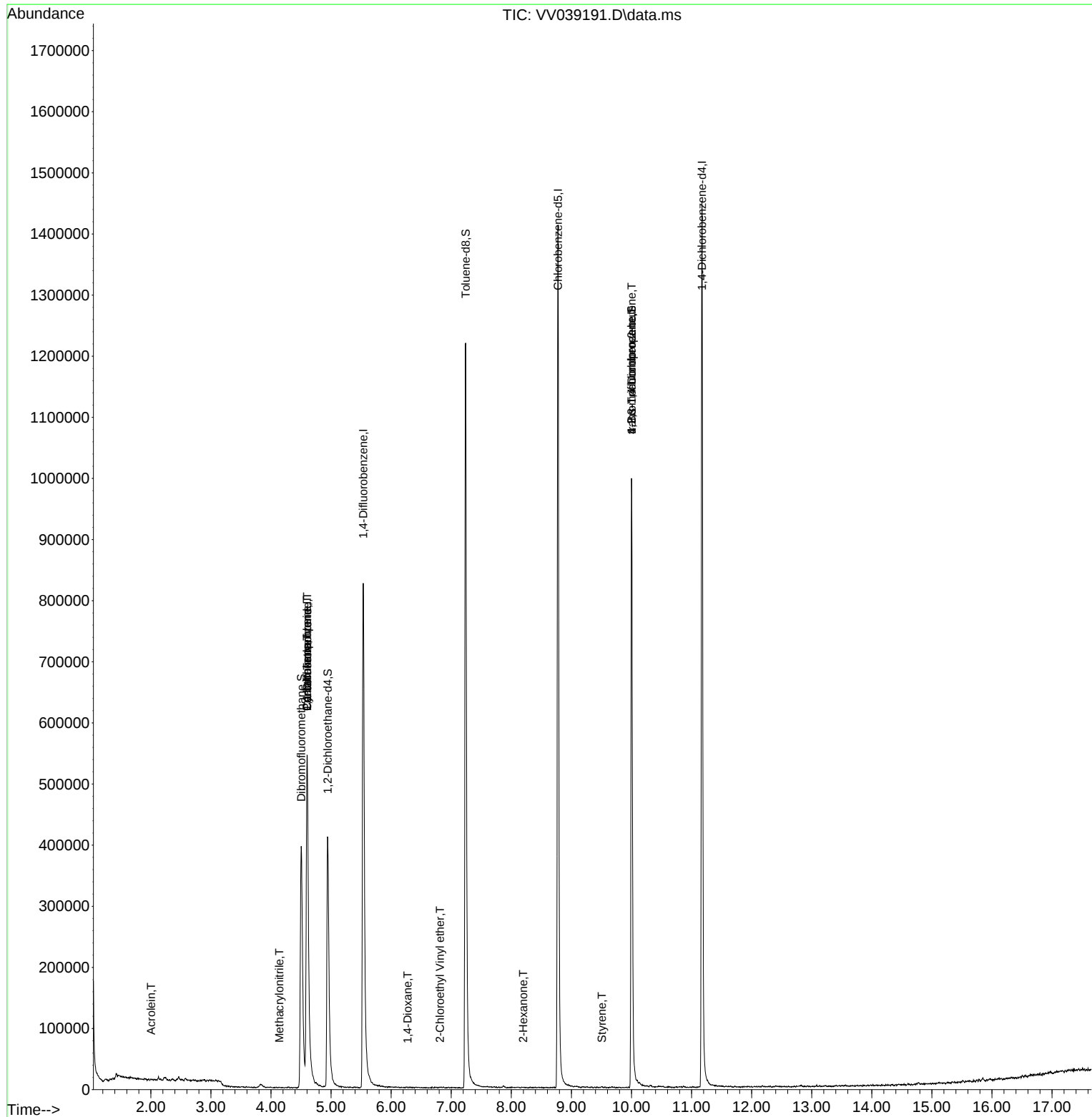
Internal Standards						
1) Pentafluorobenzene	4.603	168	466916	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	828915	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	809498	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	384637	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	368405	54.517	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 109.040%	
35) Dibromofluoromethane	4.503	113	338536	50.802	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 101.600%	
50) Toluene-d8	7.239	98	895565	45.758	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 91.520%	
62) 4-Bromofluorobenzene	10.001	95	354206	43.962	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 87.920%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.558	64	465	Below Cal	#	44
13) Acrolein	2.005	56	121	0.488	ug/l #	67
16) Acetone	2.130	43	5815	Below Cal		93
20) Methylene Chloride	2.461	84	2519	Below Cal	#	76
31) Cyclohexane	4.600	56	9728	0.807	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	40444	4.014	ug/l #	46
38) Carbon Tetrachloride	4.603	117	46449	3.772	ug/l #	17
41) Methacrylonitrile	4.140	41	40	1.917	ug/l #	1
49) 1,4-Dioxane	6.275	88	68	0.558	ug/l #	42
58) 2-Chloroethyl Vinyl ether	6.812	63	376	9.686	ug/l #	47
59) 2-Hexanone	8.198	43	76	2.334	ug/l	82
70) Styrene	9.509	104	45	1.563	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75	171161	19.544	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	171161	46.920	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.345	75	22	Below Cal	#	5

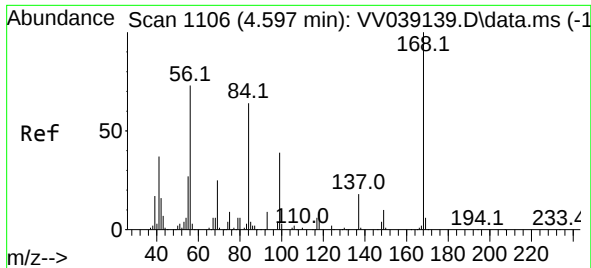
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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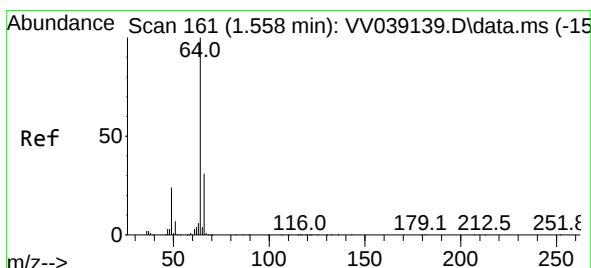
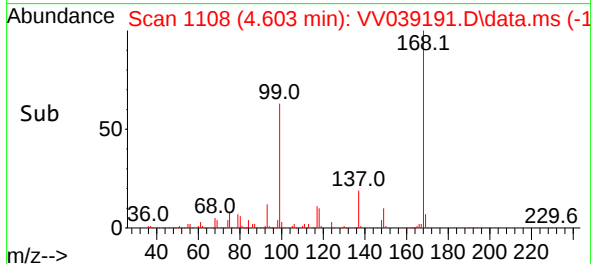
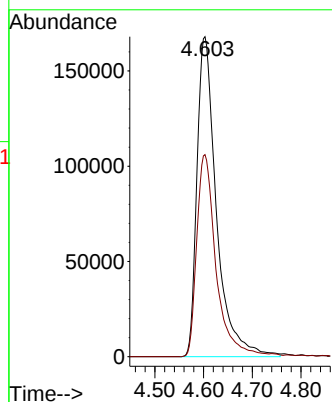
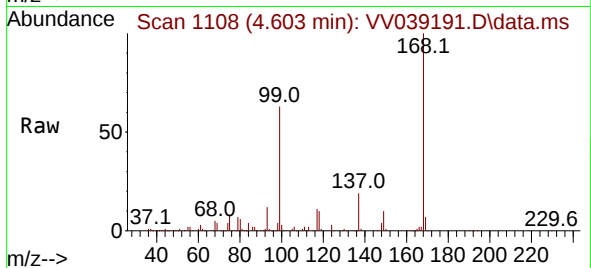




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

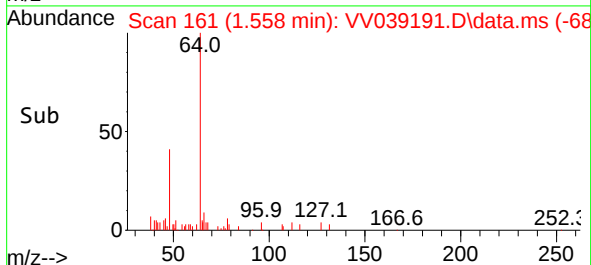
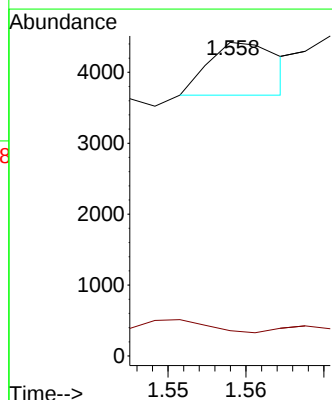
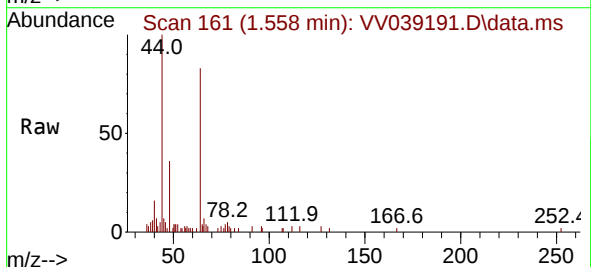
Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

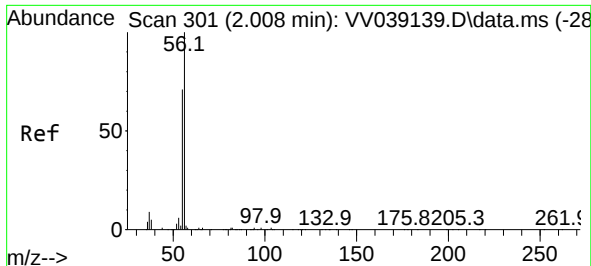
Tgt Ion:168 Resp: 466916
Ion Ratio Lower Upper
168 100
99 63.1 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.558 min Scan# 161
Delta R.T. -0.000 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion: 64 Resp: 465
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#





#13

Acrolein

Concen: 0.488 ug/l

RT: 2.005 min Scan# 301

Delta R.T. -0.003 min

Lab File: VV039191.D

Acq: 25 Sep 2025 18:55

Instrument :

MSVOA_V

ClientSampleId :

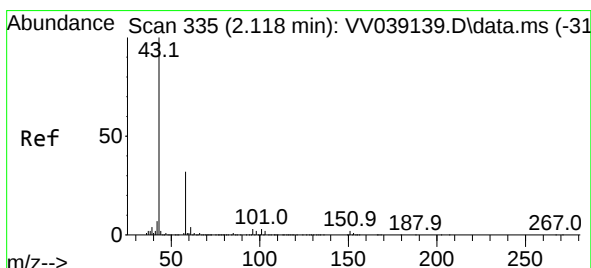
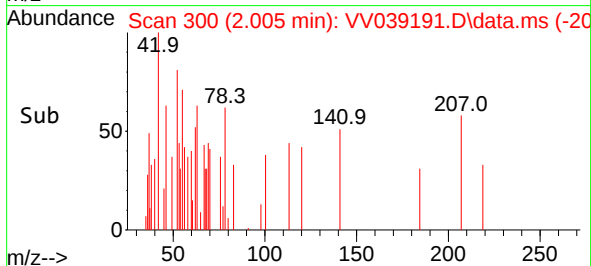
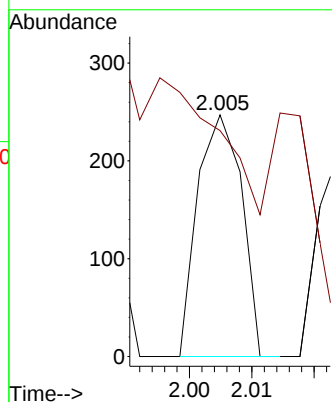
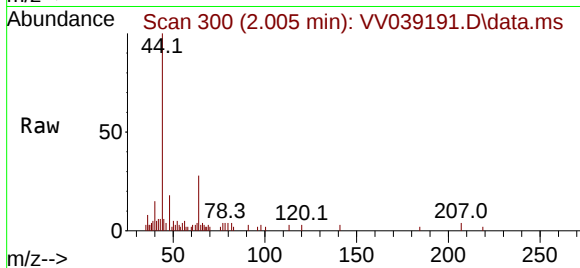
TB-01-091525

Tgt Ion: 56 Resp: 121

Ion Ratio Lower Upper

56 100

55 97.5 56.2 84.4#



#16

Acetone

Concen: Below Cal

RT: 2.130 min Scan# 339

Delta R.T. 0.012 min

Lab File: VV039191.D

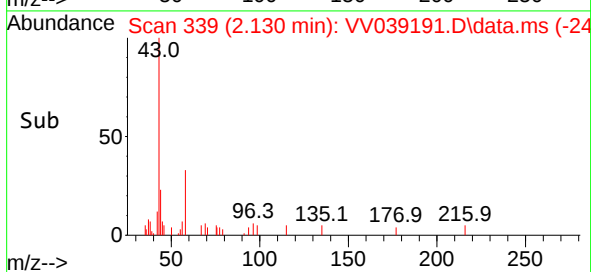
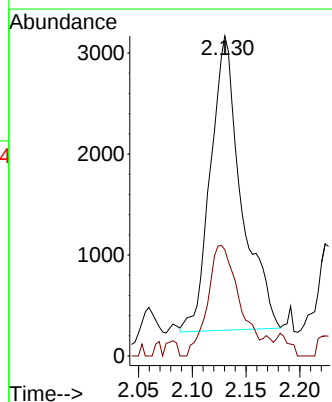
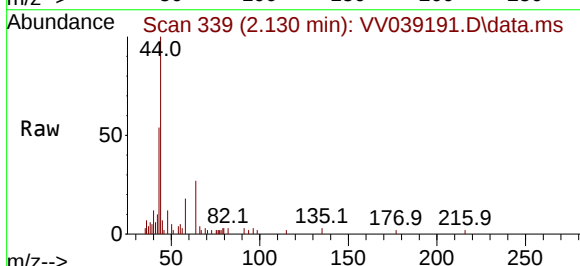
Acq: 25 Sep 2025 18:55

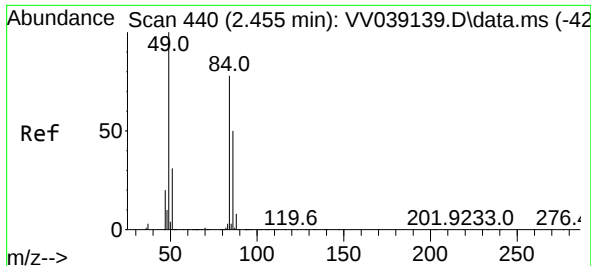
Tgt Ion: 43 Resp: 5815

Ion Ratio Lower Upper

43 100

58 36.3 25.8 38.6

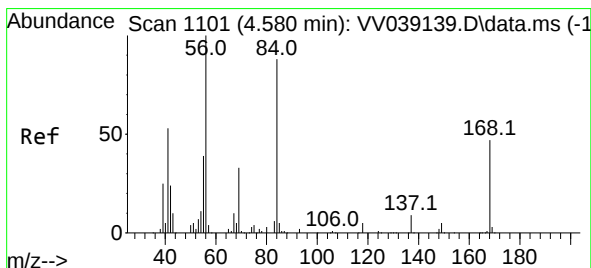
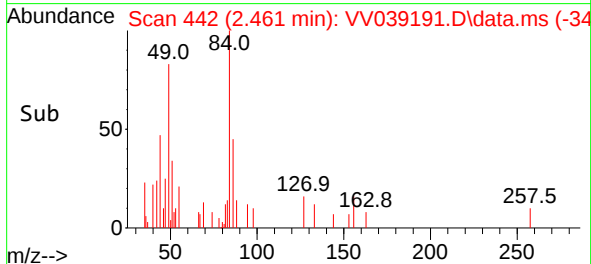
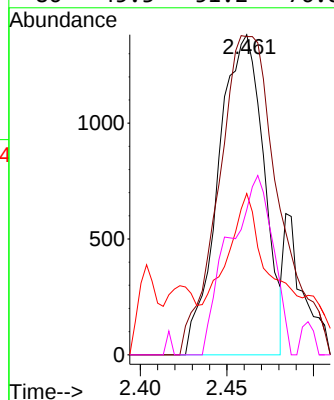
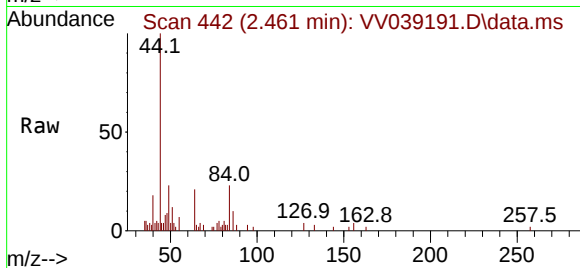




#20
Methylene Chloride
Concen: Below Cal
RT: 2.461 min Scan# 440
Delta R.T. 0.006 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

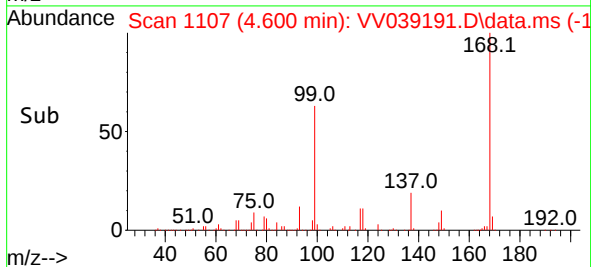
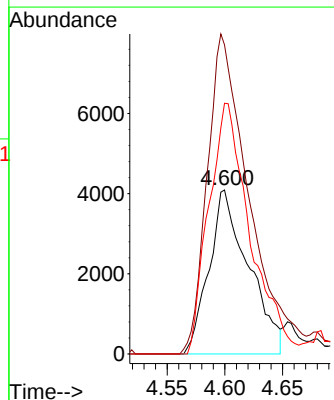
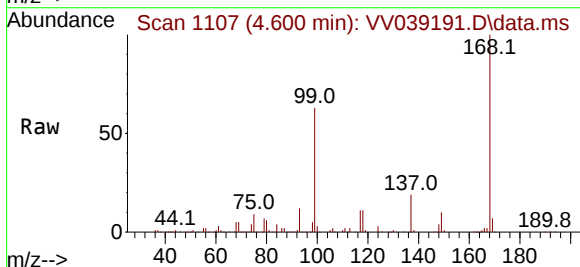
Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

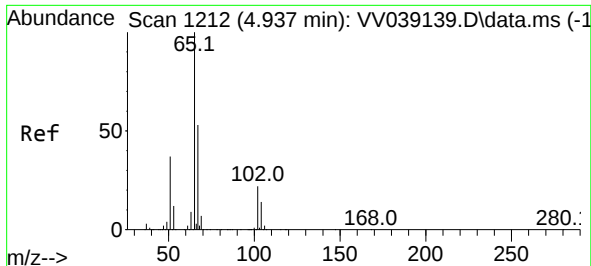
Tgt Ion:	84	Resp:	2519
Ion	Ratio	Lower	Upper
84	100		
49	99.4	102.8	154.2#
51	28.8	31.9	47.9#
86	45.3	51.2	76.8#



#31
Cyclohexane
Concen: 0.807 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. 0.019 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion:	56	Resp:	9728
Ion	Ratio	Lower	Upper
56	100		
69	188.5	26.2	39.2#
84	152.9	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 54.517 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039191.D

Acq: 25 Sep 2025 18:55

Instrument :

MSVOA_V

ClientSampleId :

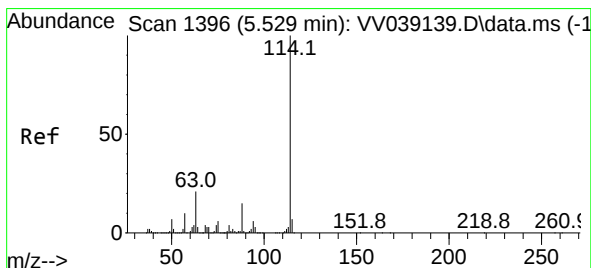
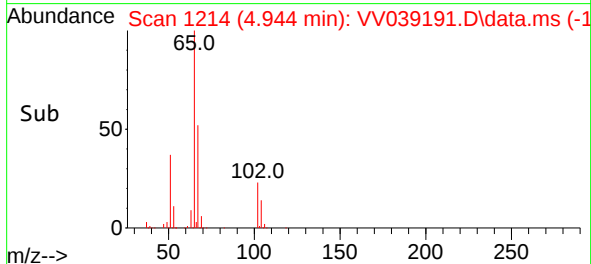
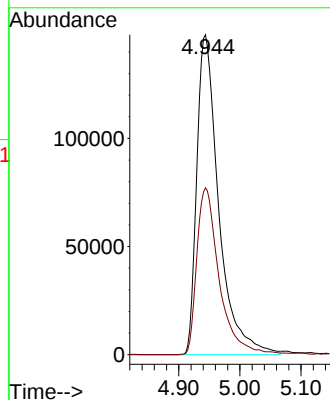
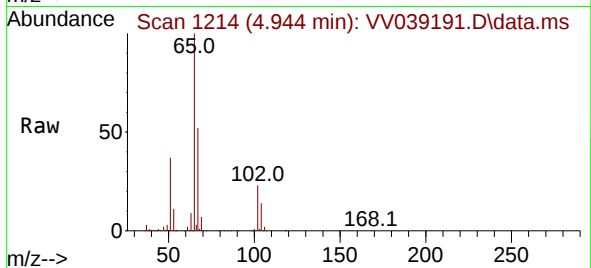
TB-01-091525

Tgt Ion: 65 Resp: 368405

Ion Ratio Lower Upper

65 100

67 53.4 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VV039191.D

Acq: 25 Sep 2025 18:55

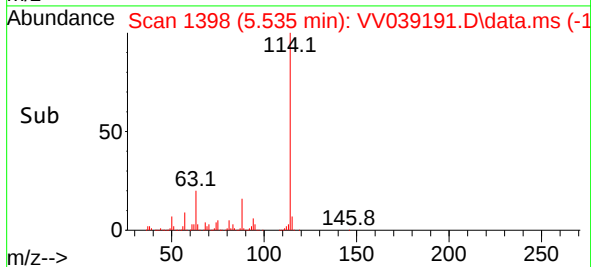
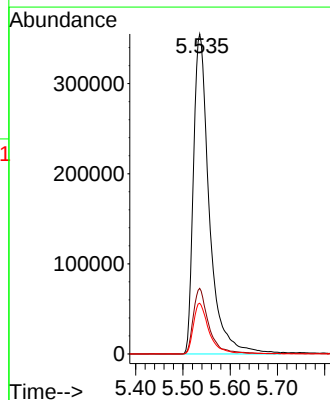
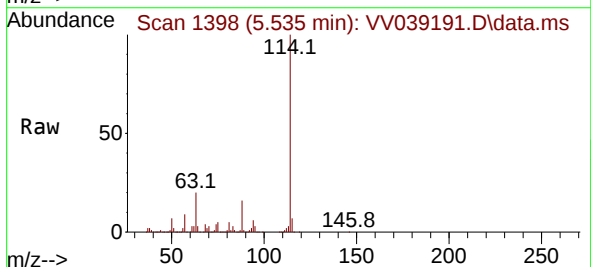
Tgt Ion: 114 Resp: 828915

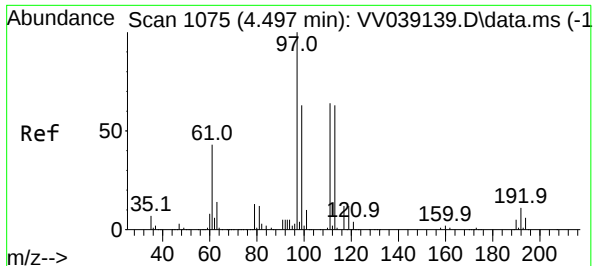
Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.6

88 15.9 0.0 30.8

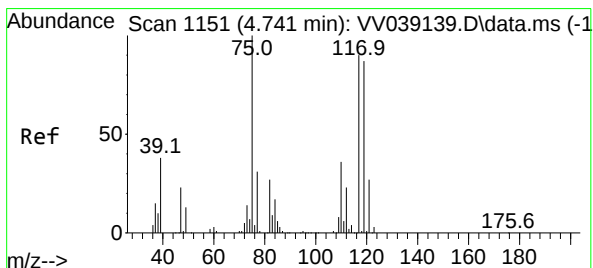
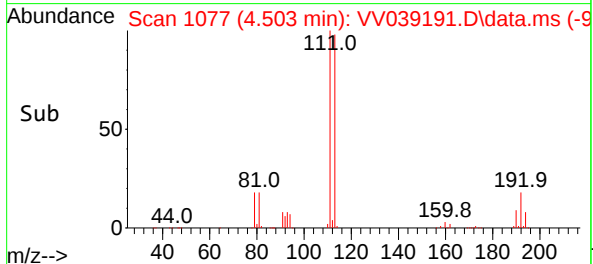
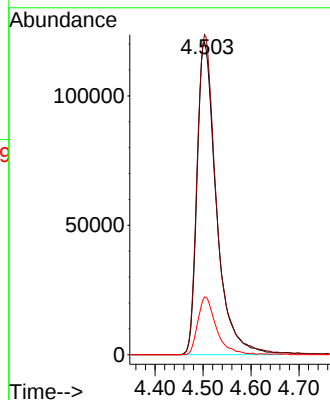
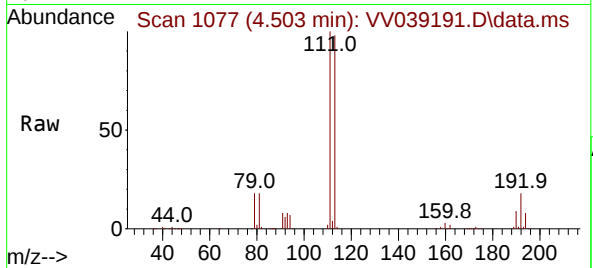




#35
 Dibromofluoromethane
 Concen: 50.802 ug/l
 RT: 4.503 min Scan# 1107
 Delta R.T. 0.006 min
 Lab File: VV039191.D
 Acq: 25 Sep 2025 18:55

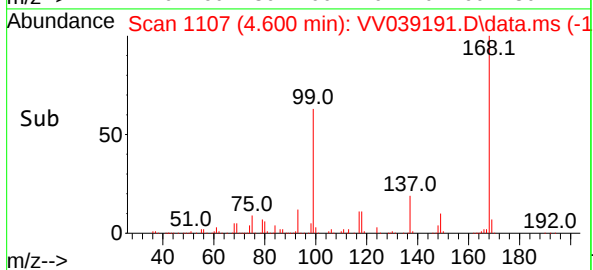
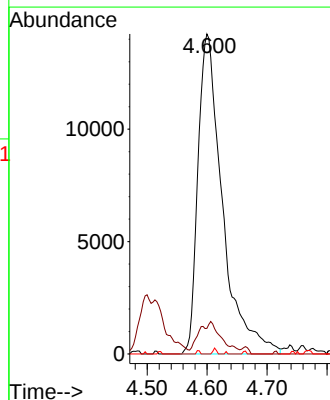
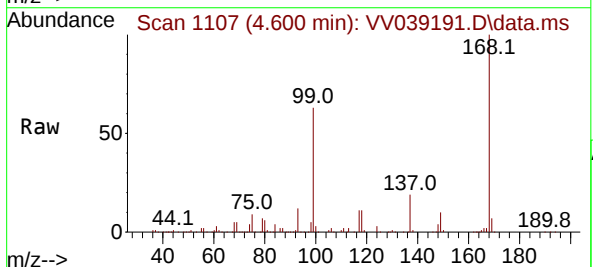
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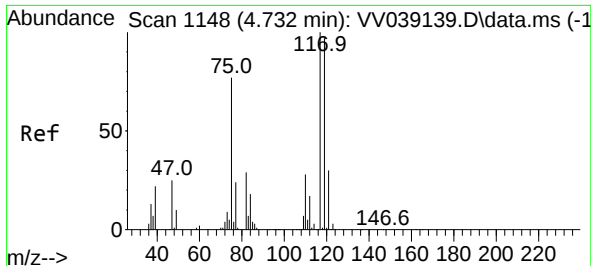
Tgt Ion:113 Resp: 338536
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.4 123.6
 192 17.5 13.8 20.8



#36
 1,1-Dichloropropene
 Concen: 4.014 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.141 min
 Lab File: VV039191.D
 Acq: 25 Sep 2025 18:55

Tgt Ion: 75 Resp: 40444
 Ion Ratio Lower Upper
 75 100
 110 4.9 18.1 54.1#
 77 0.2 24.8 37.2#

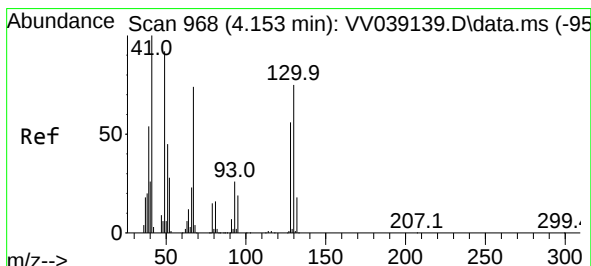
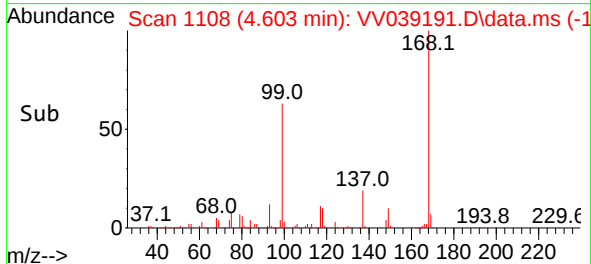
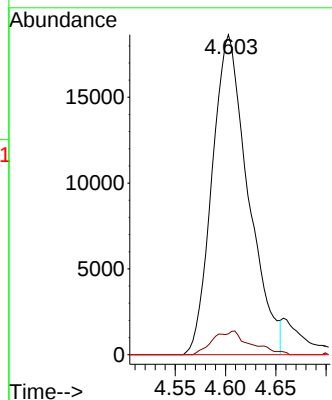
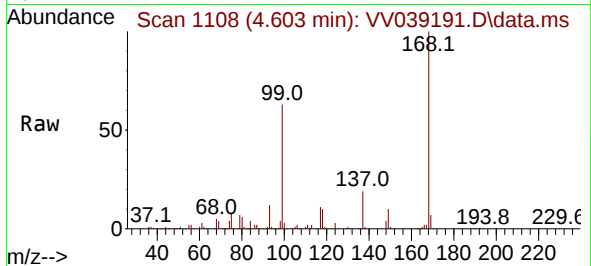




#38
Carbon Tetrachloride
Concen: 3.772 ug/l
RT: 4.603 min Scan# 1148
Delta R.T. -0.129 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

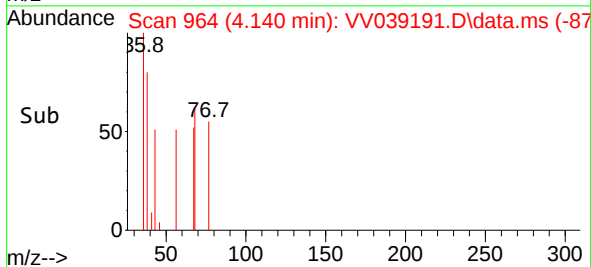
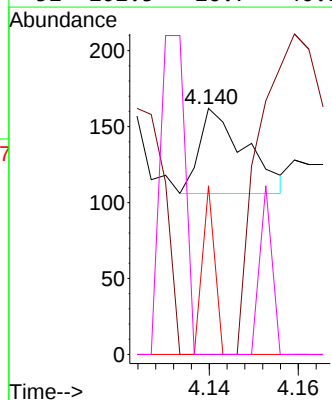
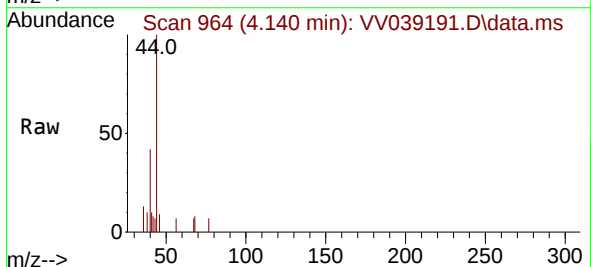
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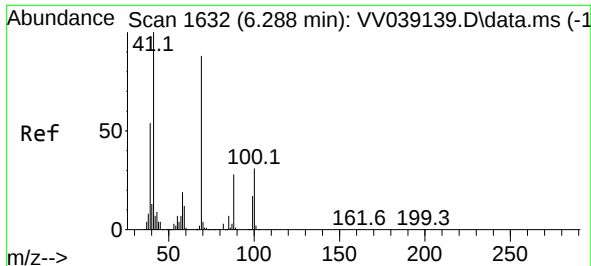
Tgt Ion:117 Resp: 46449
Ion Ratio Lower Upper
117 100
119 6.5 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.917 ug/l
RT: 4.140 min Scan# 964
Delta R.T. -0.013 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion: 41 Resp: 40
Ion Ratio Lower Upper
41 100
39 0.0 42.2 63.2#
67 52.5 67.9 101.9#
52 202.5 26.7 40.1#





#49

1,4-Dioxane

Concen: 0.558 ug/l

RT: 6.275 min Scan# 1

Delta R.T. -0.013 min

Lab File: VV039191.D

Acq: 25 Sep 2025 18:55

Instrument :

MSVOA_V

ClientSampleId :

TB-01-091525

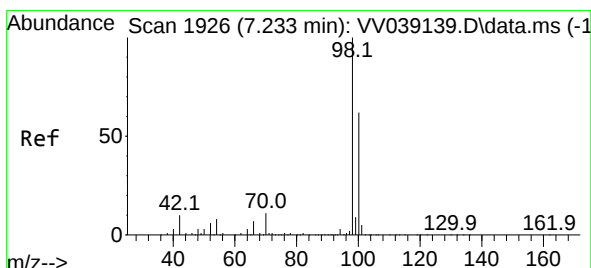
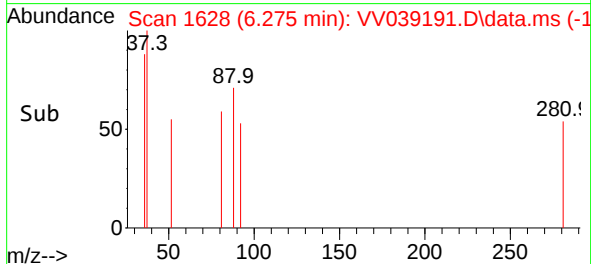
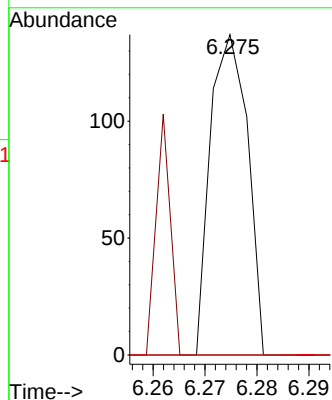
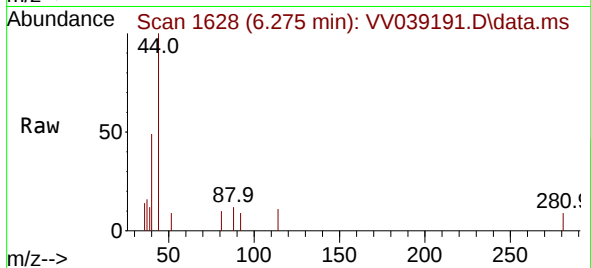
Tgt Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 29.4 25.1 37.7

58 0.0 53.6 80.4#



#50

Toluene-d8

Concen: 45.758 ug/l

RT: 7.239 min Scan# 1928

Delta R.T. 0.006 min

Lab File: VV039191.D

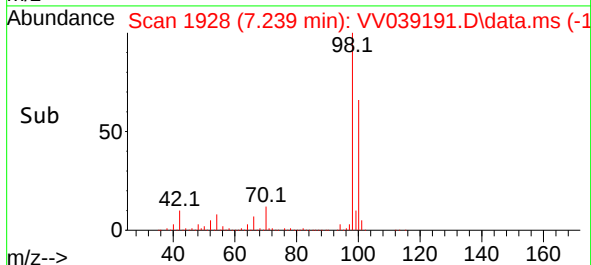
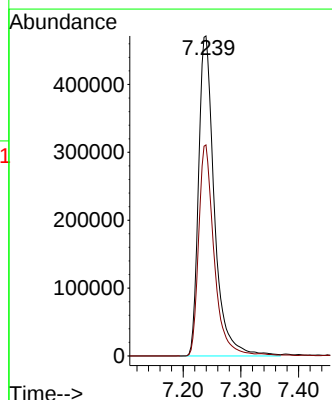
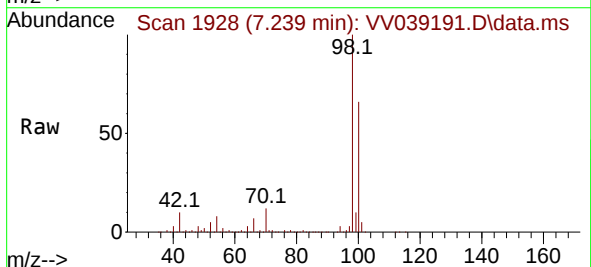
Acq: 25 Sep 2025 18:55

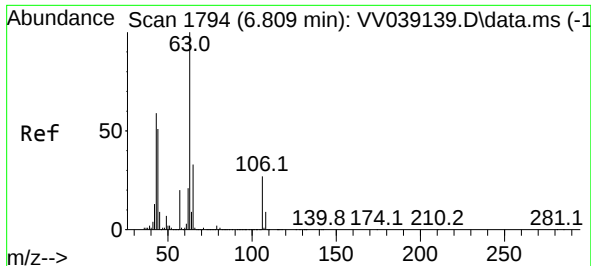
Tgt Ion: 98 Resp: 895565

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.2

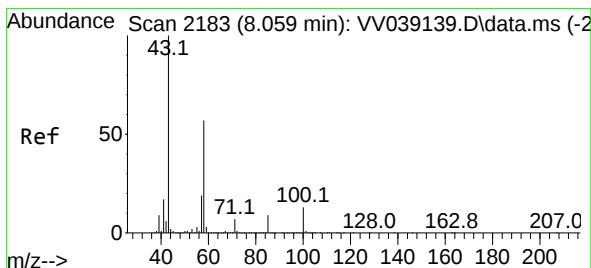
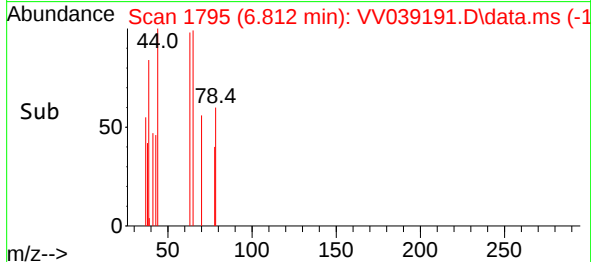
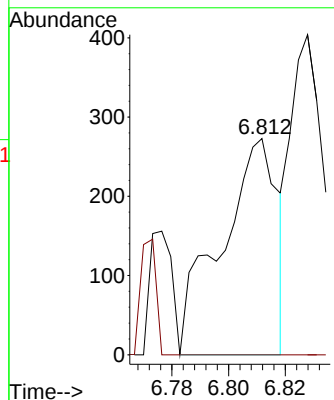
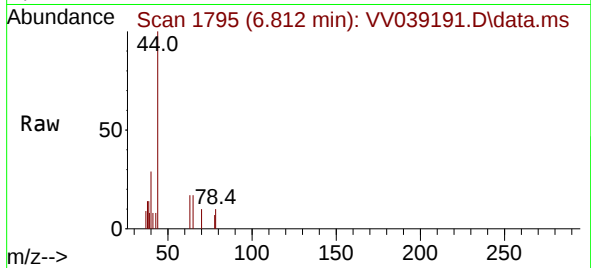




#58
2-Chloroethyl Vinyl ether
Concen: 9.686 ug/l
RT: 6.812 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

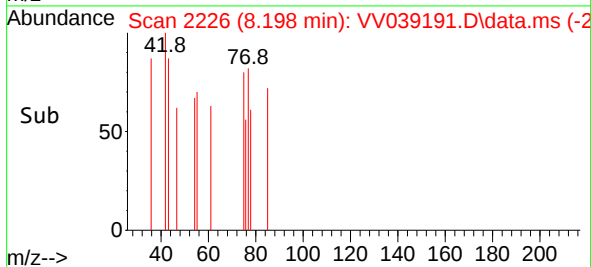
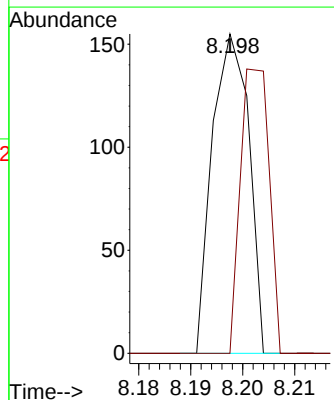
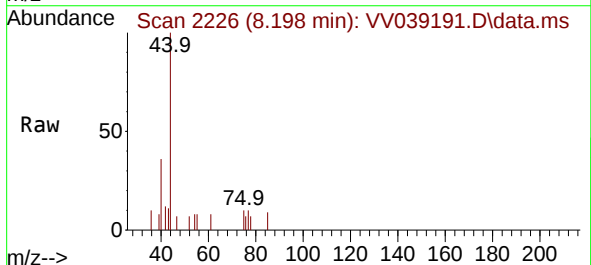
Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

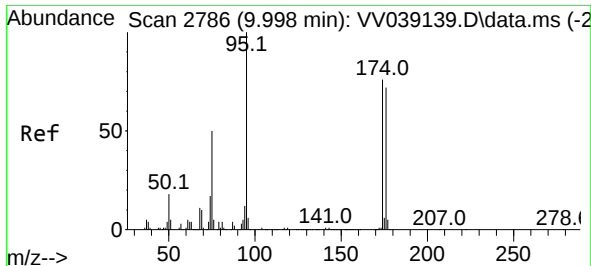
Tgt Ion: 63 Resp: 376
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.334 ug/l
RT: 8.198 min Scan# 2226
Delta R.T. 0.139 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion: 43 Resp: 76
Ion Ratio Lower Upper
43 100
58 69.7 28.3 85.0

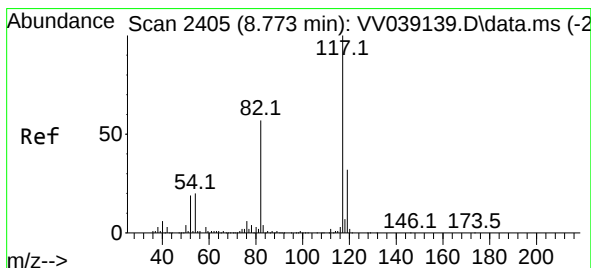
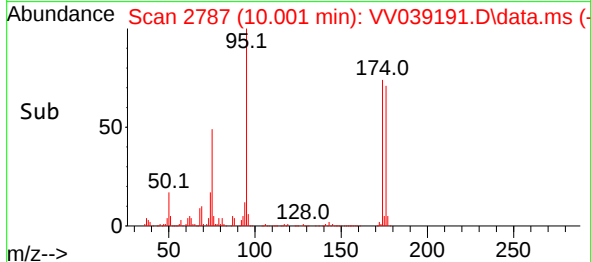
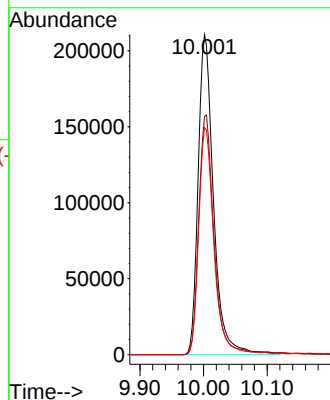
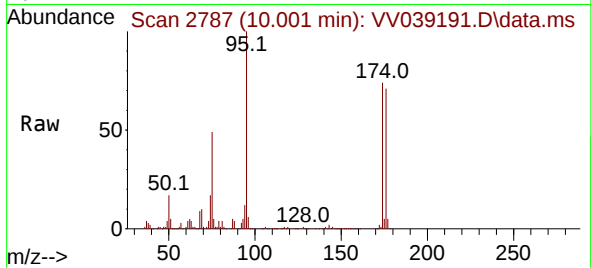




#62
4-Bromofluorobenzene
Concen: 43.962 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

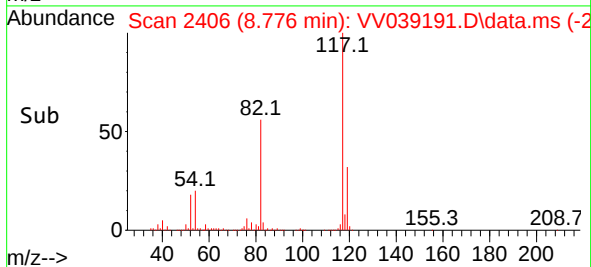
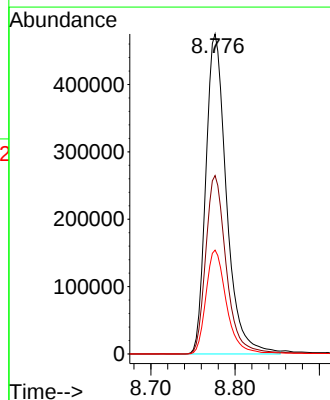
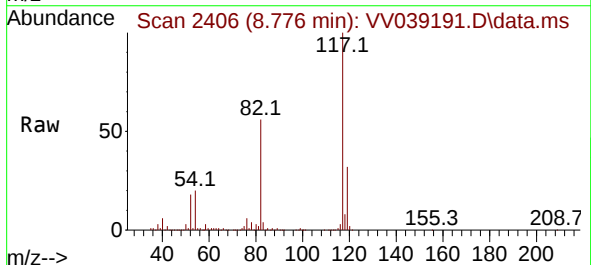
Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

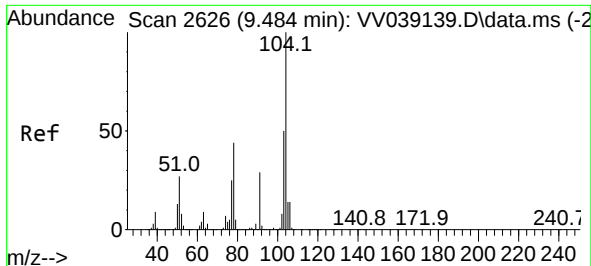
Tgt Ion: 95 Resp: 354206
Ion Ratio Lower Upper
95 100
174 74.3 0.0 150.4
176 70.1 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion: 117 Resp: 809498
Ion Ratio Lower Upper
117 100
82 55.8 45.4 68.2
119 32.4 25.6 38.4

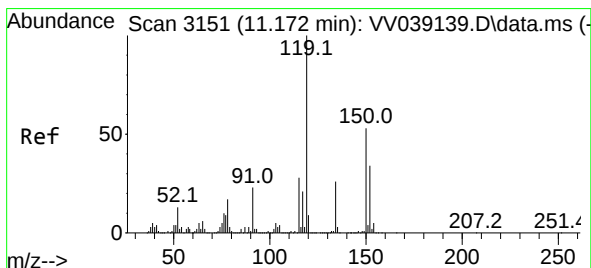
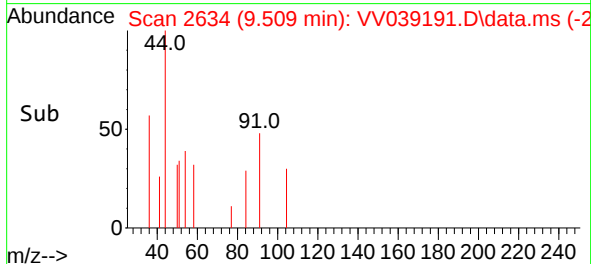
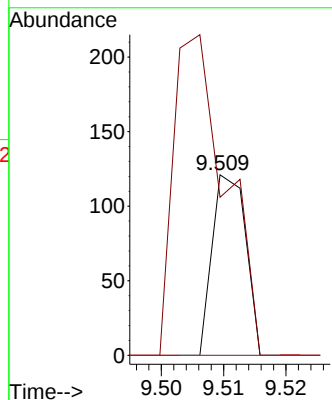
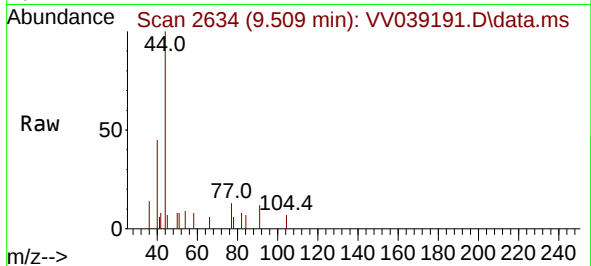




#70
Styrene
Concen: 1.563 ug/l
RT: 9.509 min Scan# 2634
Delta R.T. 0.025 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

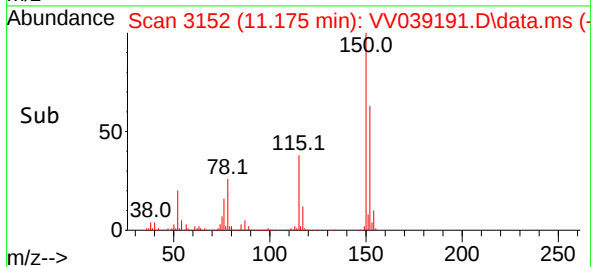
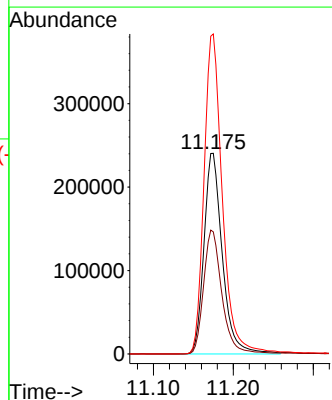
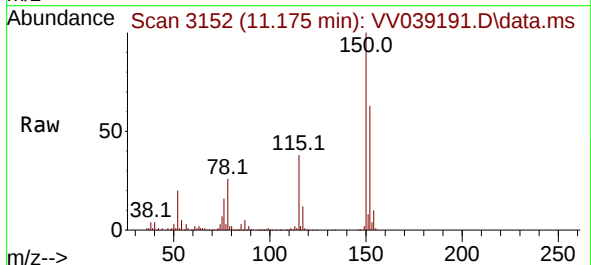
Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

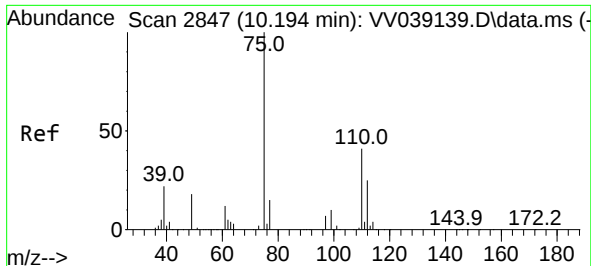
Tgt Ion:104 Resp: 45
Ion Ratio Lower Upper
104 100
78 275.6 39.8 59.6#
103 0.0 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion:152 Resp: 384637
Ion Ratio Lower Upper
152 100
115 61.6 44.8 134.4
150 160.0 0.0 353.8

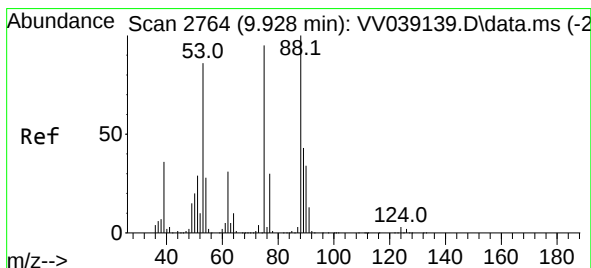
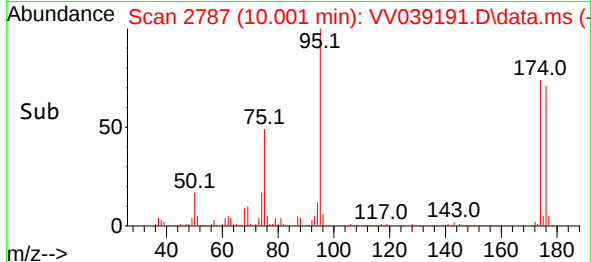
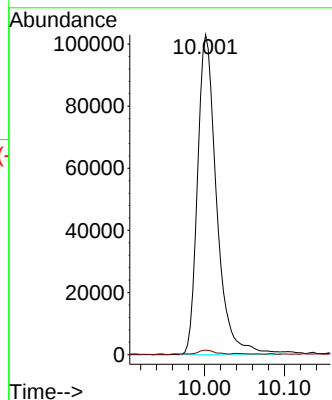
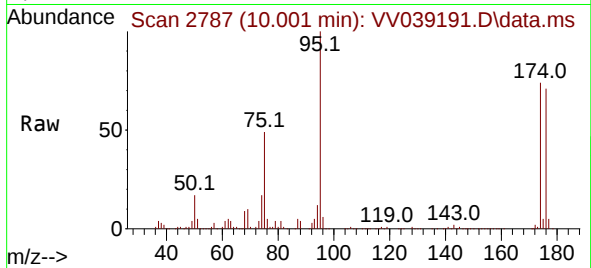




#76
 1,2,3-Trichloropropane
 Concen: 19.544 ug/l
 RT: 10.001 min Scan# 21
 Delta R.T. -0.193 min
 Lab File: VV039191.D
 Acq: 25 Sep 2025 18:55

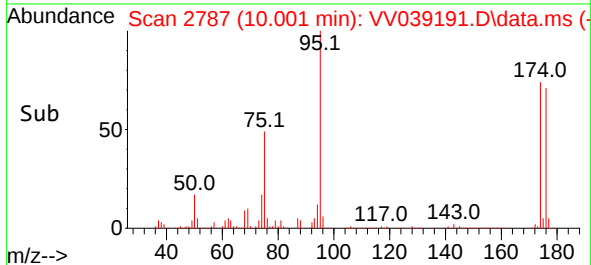
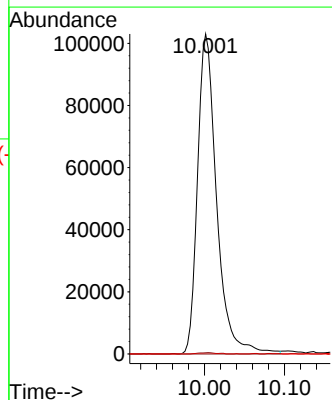
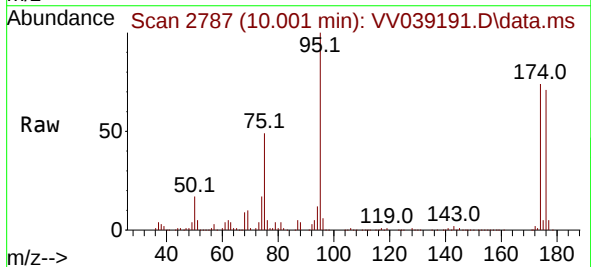
Instrument :
 MSVOA_V
 ClientSampleId :
 TB-01-091525

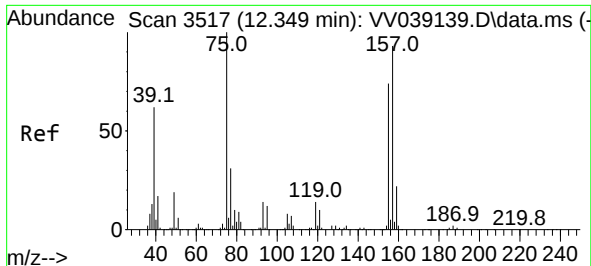
Tgt Ion: 75 Resp: 171161
 Ion Ratio Lower Upper
 75 100
 77 1.1 11.3 33.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 46.920 ug/l
 RT: 10.001 min Scan# 2787
 Delta R.T. 0.074 min
 Lab File: VV039191.D
 Acq: 25 Sep 2025 18:55

Tgt Ion: 75 Resp: 171161
 Ion Ratio Lower Upper
 75 100
 53 0.3 72.5 108.7#
 89 0.0 37.2 55.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.345 min Scan# 31

Delta R.T. -0.004 min

Lab File: VV039191.D

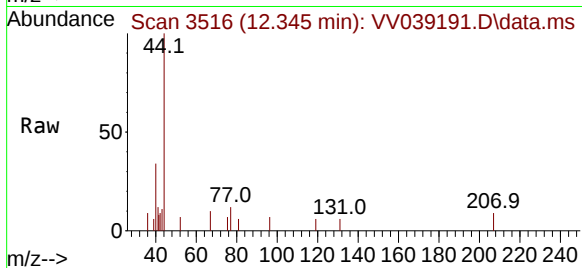
Acq: 25 Sep 2025 18:55

Instrument :

MSVOA_V

ClientSampleId :

TB-01-091525



Tgt Ion: 75 Resp: 22

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.8#

157 0.0 49.5 148.3#

