

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
 Data File : VV039226.D
 Acq On : 29 Sep 2025 13:08
 Operator : SY/MD
 Sample : Q3195-15DL 5X
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 30 01:24:39 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

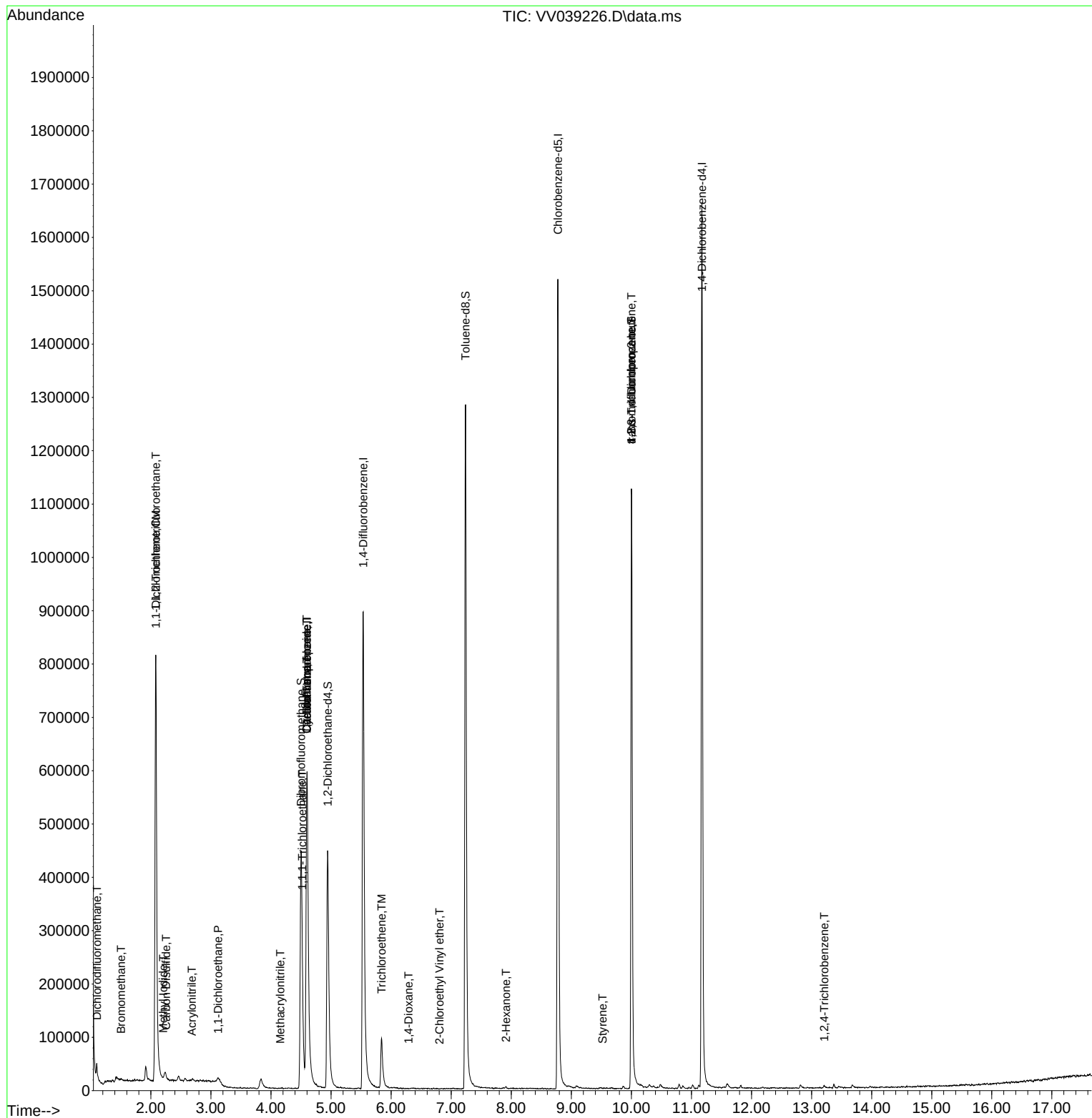
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	520194	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	885532	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	868036	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	445110	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	388329	51.579	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 103.160%	
35) Dibromofluoromethane	4.503	113	372446	52.317	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 104.640%	
50) Toluene-d8	7.239	98	941881	45.048	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 90.100%	
62) 4-Bromofluorobenzene	10.001	95	384328	44.651	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 89.300%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.101	85	3580	0.435	ug/l	99
5) Bromomethane	1.503	94	1431	0.240	ug/l	99
6) Chloroethane	1.561	64	277	Below Cal	#	44
9) 1,1,2-Trichlorotrifluo...	2.082	101	357606	43.863	ug/l	96
10) Methyl Iodide	2.207	142	2829	0.364	ug/l #	69
12) 1,1-Dichloroethene	2.085	96	2575	0.328	ug/l #	60
15) Acrylonitrile	2.683	53	1109	0.217	ug/l #	88
16) Acetone	2.130	43	5396	Below Cal	#	86
17) Carbon Disulfide	2.252	76	6119	0.255	ug/l #	92
20) Methylene Chloride	2.458	84	4245	Below Cal		87
24) 1,1-Dichloroethane	3.120	63	7087	0.432	ug/l #	85
31) Cyclohexane	4.596	56	10831	0.807	ug/l #	1
32) 1,1,1-Trichloroethane	4.519	97	5516	0.372	ug/l #	52
36) 1,1-Dichloropropene	4.596	75	42284	3.929	ug/l #	49
38) Carbon Tetrachloride	4.596	117	52493	3.991	ug/l #	18
41) Methacrylonitrile	4.156	41	22	1.914	ug/l #	1
44) Trichloroethene	5.841	130	40560	5.015	ug/l	90
49) 1,4-Dioxane	6.291	88	40	0.307	ug/l #	32
58) 2-Chloroethyl Vinyl ether	6.805	63	47	9.630	ug/l #	47
59) 2-Hexanone	7.915	43	110	2.337	ug/l	94
70) Styrene	9.522	104	46	1.563	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75	191054	18.852	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	191054	45.258	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.336	75	49	Below Cal	#	5
93) 1,2,4-Trichlorobenzene	13.210	180	1898	0.209	ug/l	91

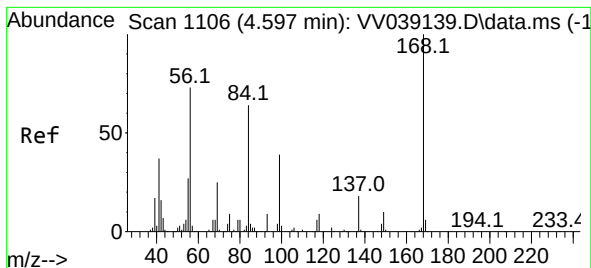
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039226.D
Acq On : 29 Sep 2025 13:08
Operator : SY/MD
Sample : Q3195-15DL 5X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: Sep 30 01:24:39 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039226.D

Acq: 29 Sep 2025 13:08

Instrument :

MSVOA_V

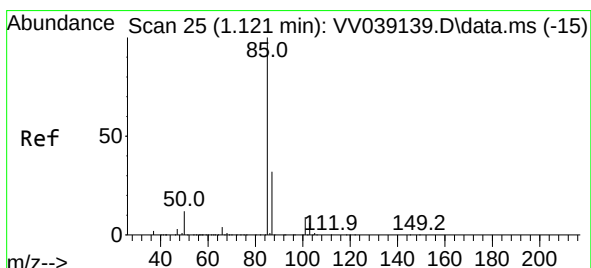
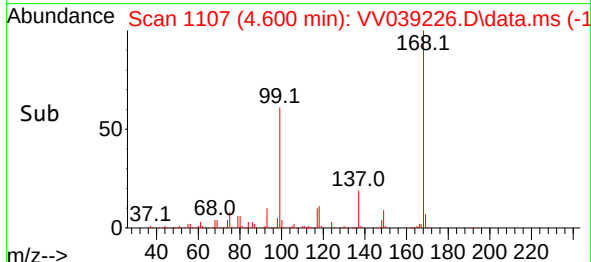
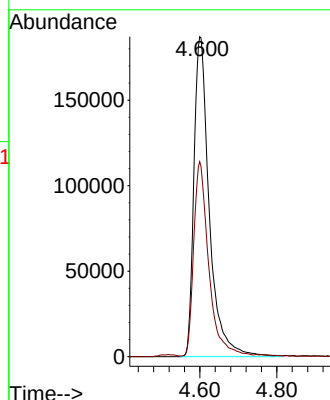
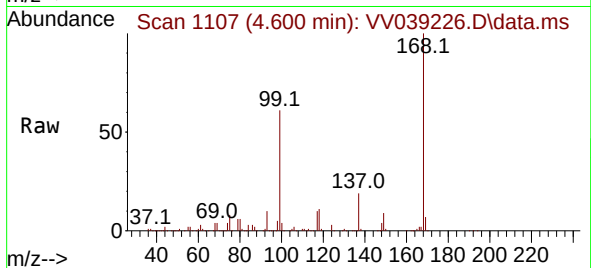
ClientSampleId :

Tgt Ion:168 Resp: 520194

Ion Ratio Lower Upper

168 100

99 60.7 49.6 74.4



#2

Dichlorodifluoromethane

Concen: 0.435 ug/l

RT: 1.101 min Scan# 19

Delta R.T. -0.019 min

Lab File: VV039226.D

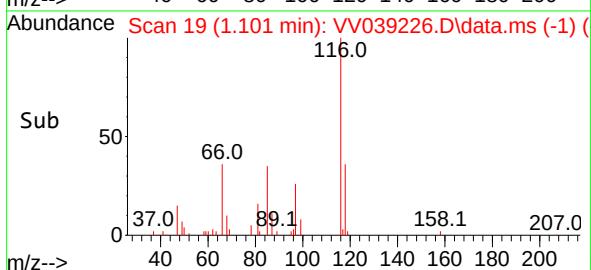
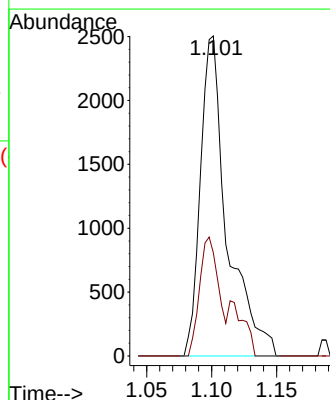
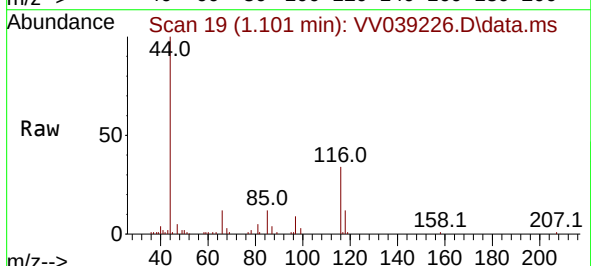
Acq: 29 Sep 2025 13:08

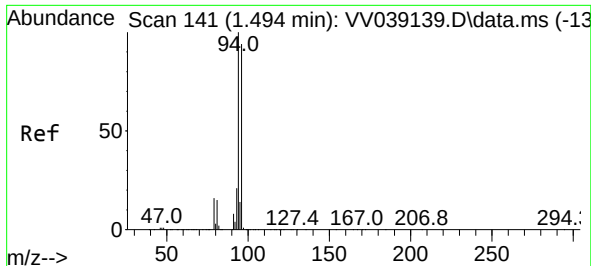
Tgt Ion: 85 Resp: 3580

Ion Ratio Lower Upper

85 100

87 32.3 16.0 47.9

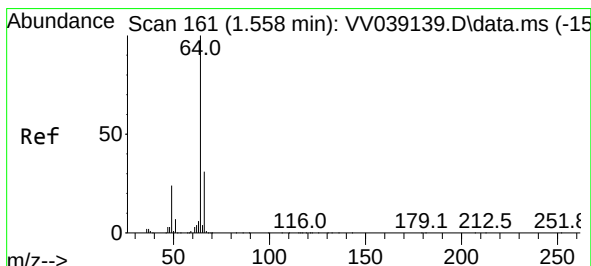
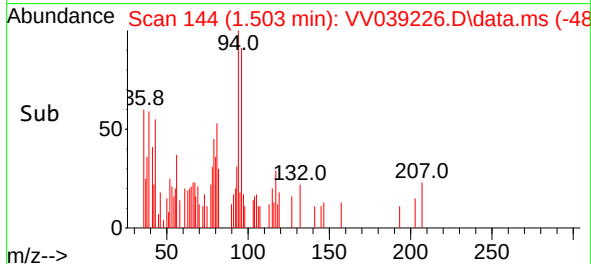
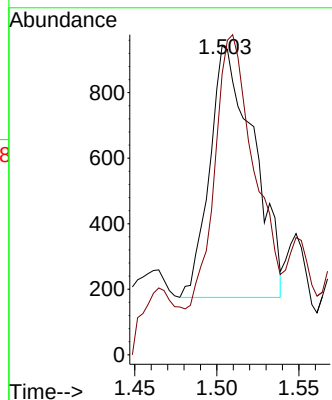
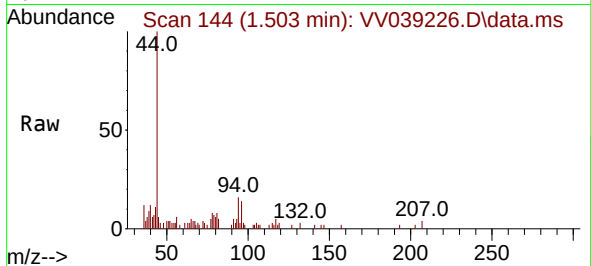




#5
Bromomethane
Concen: 0.240 ug/l
RT: 1.503 min Scan# 141
Delta R.T. 0.009 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

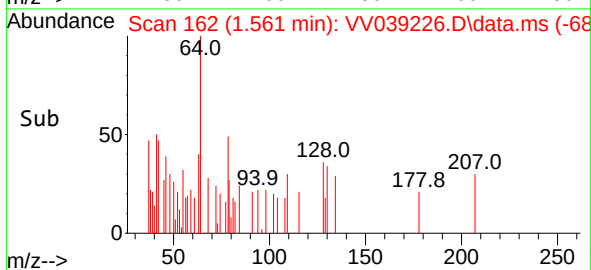
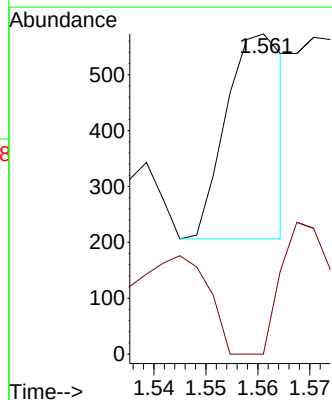
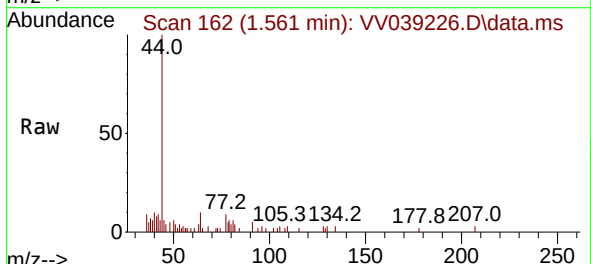
Instrument :
MSVOA_V
ClientSampleId :

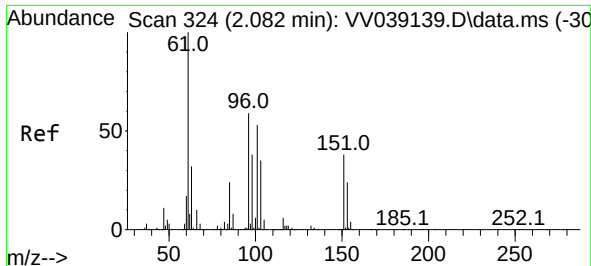
Tgt Ion: 94 Resp: 1431
Ion Ratio Lower Upper
94 100
96 92.6 74.9 112.3



#6
Chloroethane
Concen: Below Cal
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion: 64 Resp: 277
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

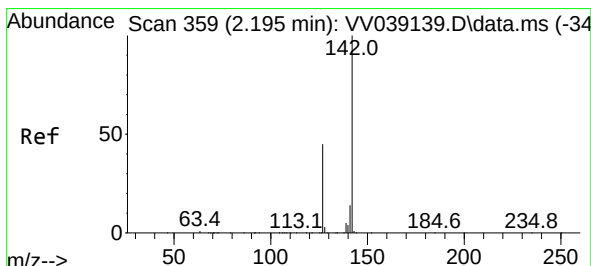
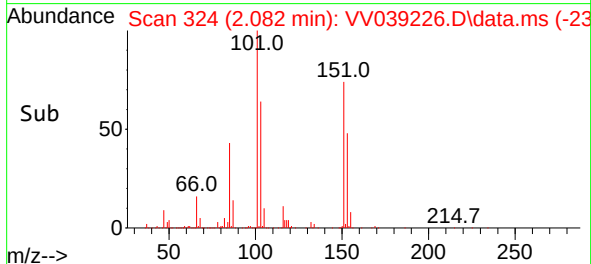
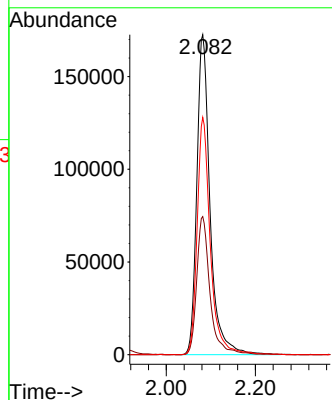
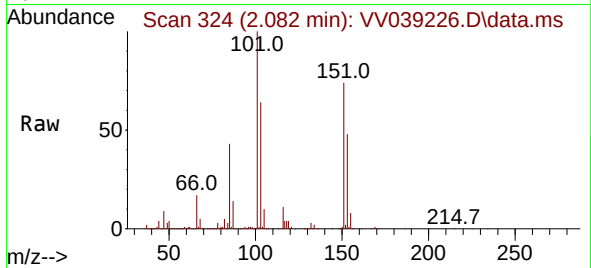




#9
1,1,2-Trichlorotrifluoroethane
Concen: 43.863 ug/l
RT: 2.082 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

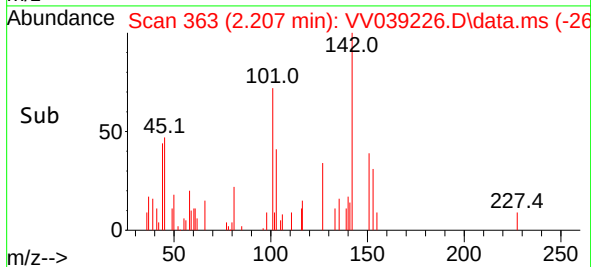
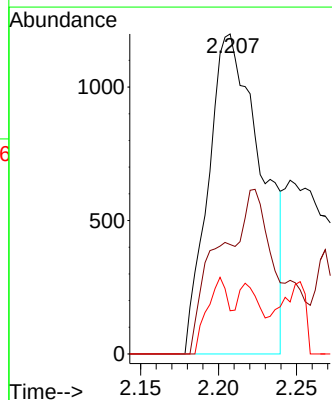
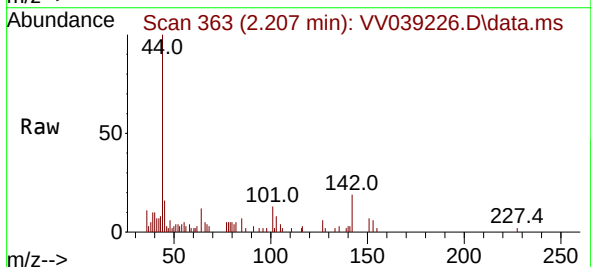
Instrument :
MSVOA_V
ClientSampleId :

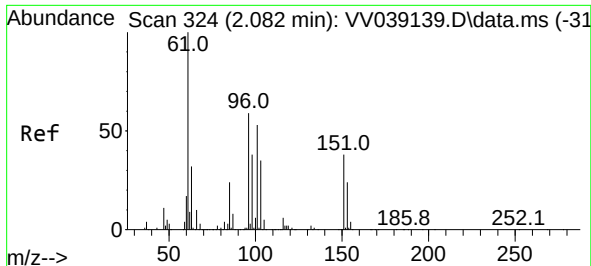
Tgt Ion:101 Resp: 357606
Ion Ratio Lower Upper
101 100
85 43.3 36.2 54.2
151 73.8 56.3 84.5



#10
Methyl Iodide
Concen: 0.364 ug/l
RT: 2.207 min Scan# 363
Delta R.T. 0.013 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion:142 Resp: 2829
Ion Ratio Lower Upper
142 100
127 21.2 36.3 54.5#
141 9.5 11.2 16.8#

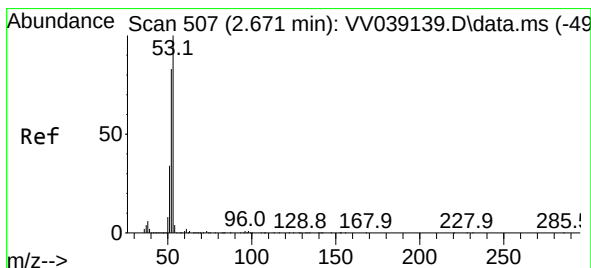
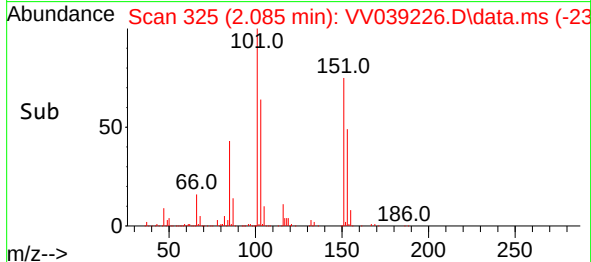
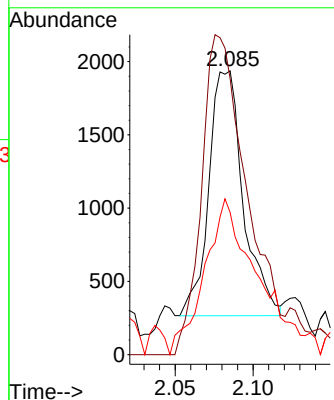
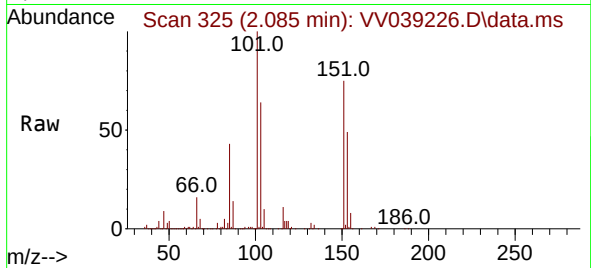




#12
1,1-Dichloroethene
Concen: 0.328 ug/l
RT: 2.085 min Scan# 311
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

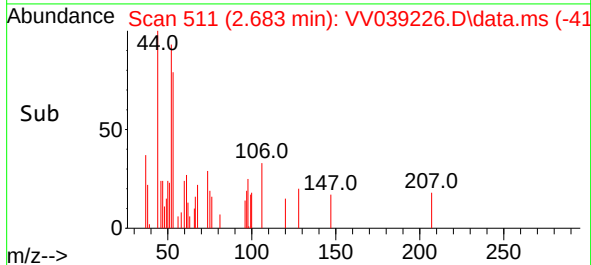
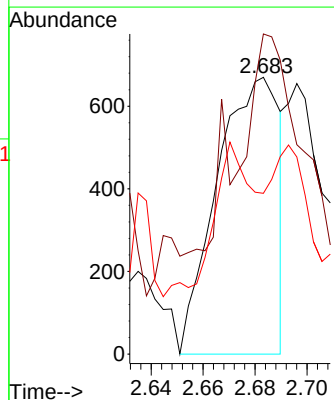
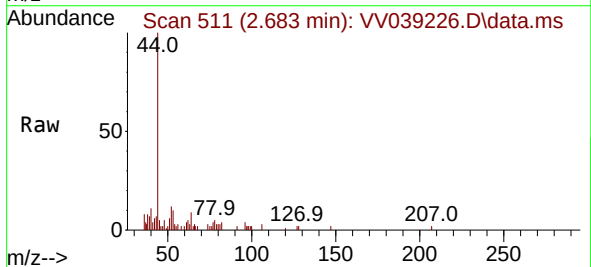
Instrument :
MSVOA_V
ClientSampleId :

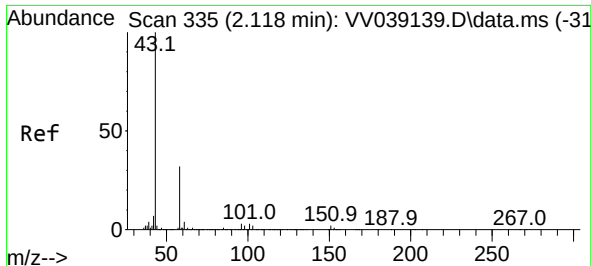
Tgt Ion: 96 Resp: 2575
Ion Ratio Lower Upper
96 100
61 105.1 136.0 204.0#
98 48.4 51.0 76.6#



#15
Acrylonitrile
Concen: 0.217 ug/l
RT: 2.683 min Scan# 511
Delta R.T. 0.013 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion: 53 Resp: 1109
Ion Ratio Lower Upper
53 100
52 77.2 66.1 99.1
51 20.8 28.5 42.7#





#16

Acetone

Concen: Below Cal

RT: 2.130 min Scan# 31

Delta R.T. 0.012 min

Lab File: VV039226.D

Acq: 29 Sep 2025 13:08

Instrument :

MSVOA_V

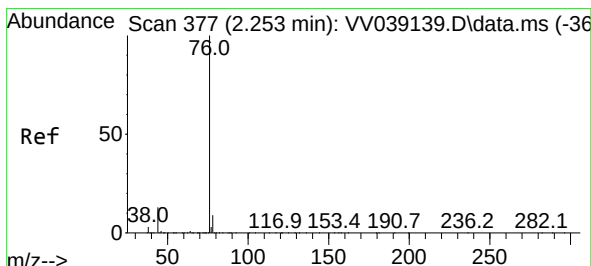
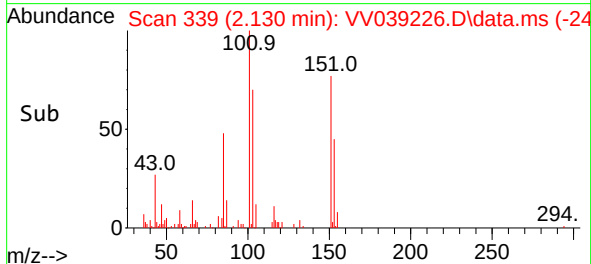
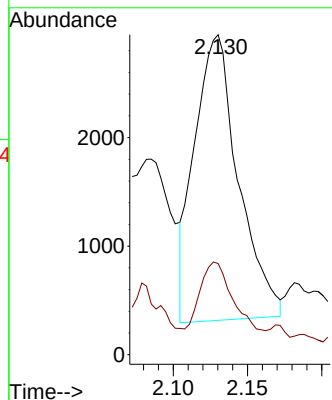
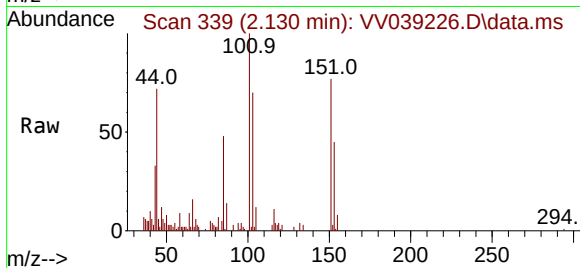
ClientSampleId :

Tgt Ion: 43 Resp: 5396

Ion Ratio Lower Upper

43 100

58 24.5 25.8 38.6#



#17

Carbon Disulfide

Concen: 0.255 ug/l

RT: 2.252 min Scan# 377

Delta R.T. -0.000 min

Lab File: VV039226.D

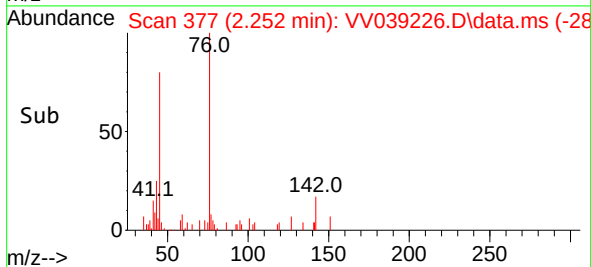
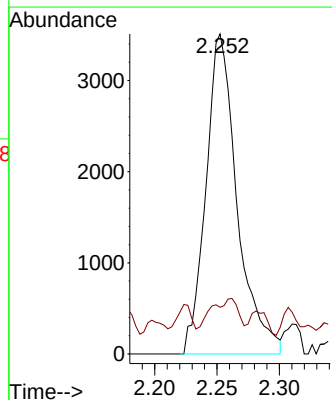
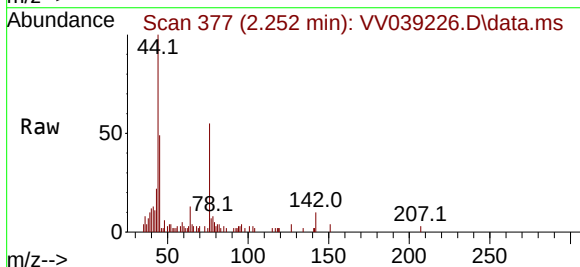
Acq: 29 Sep 2025 13:08

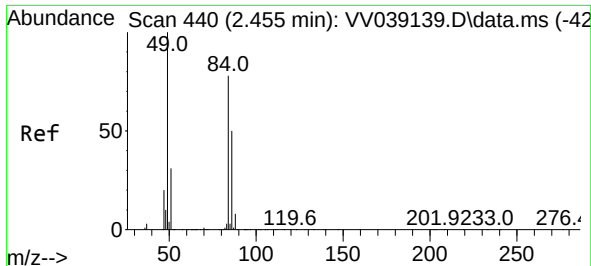
Tgt Ion: 76 Resp: 6119

Ion Ratio Lower Upper

76 100

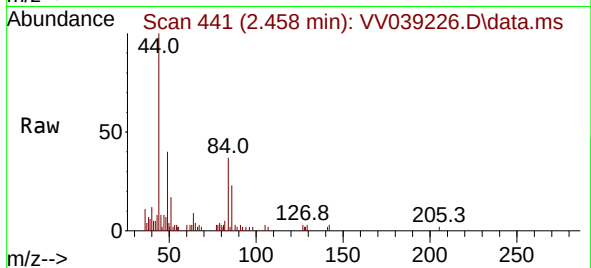
78 6.3 7.4 11.0#



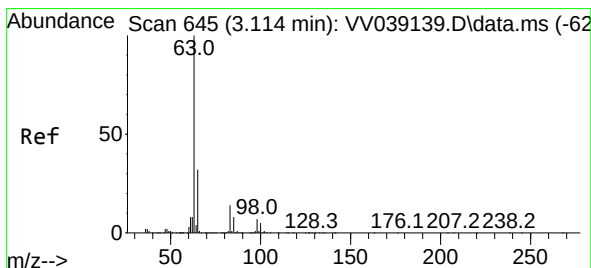
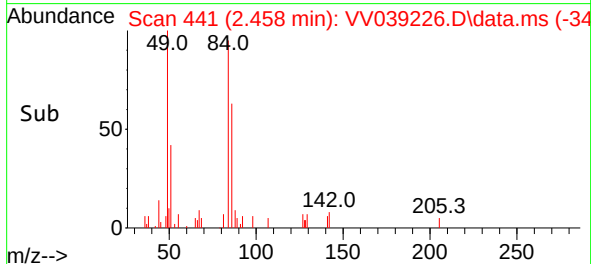
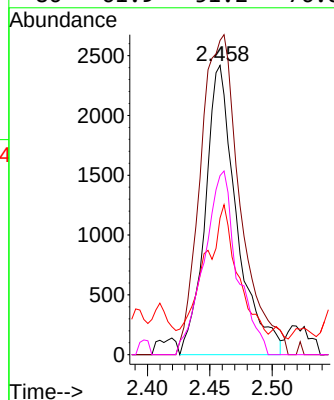


#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Instrument :
MSVOA_V
ClientSampleId :

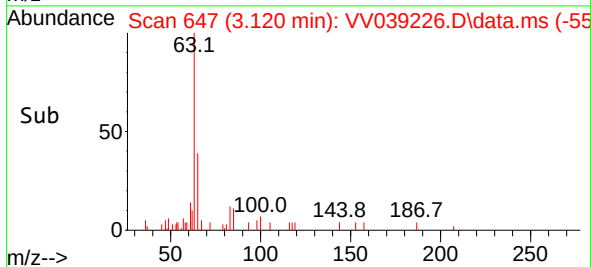
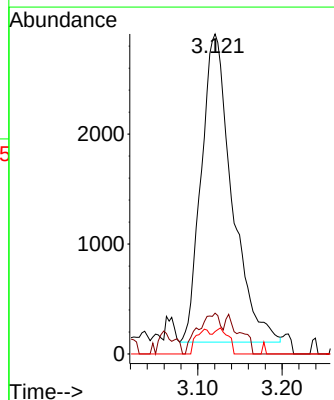
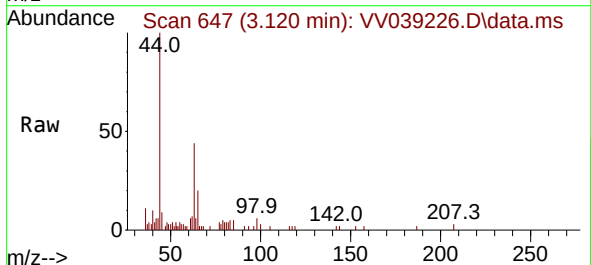


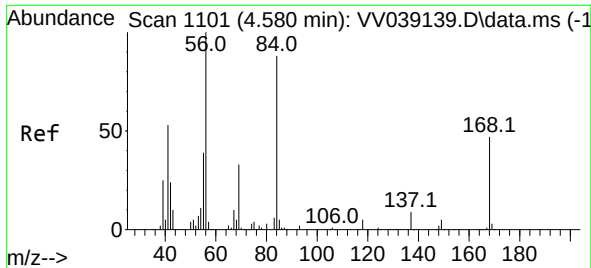
Tgt Ion:	84	Resp:	4245
Ion	Ratio	Lower	Upper
84	100		
49	104.1	102.8	154.2
51	38.8	31.9	47.9
86	61.9	51.2	76.8



#24
1,1-Dichloroethane
Concen: 0.432 ug/l
RT: 3.120 min Scan# 647
Delta R.T. 0.006 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion:	63	Resp:	7087
Ion	Ratio	Lower	Upper
63	100		
98	13.3	3.4	10.2#
100	7.3	2.2	6.6#

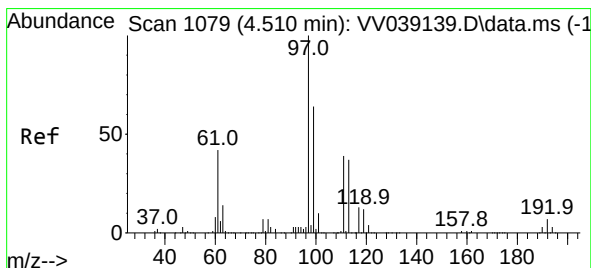
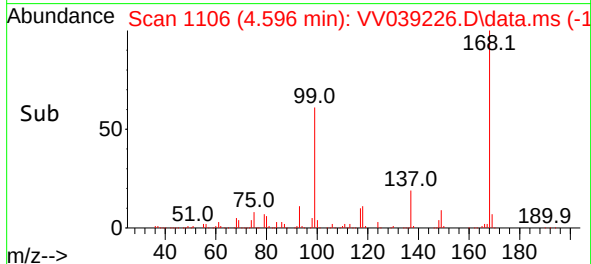
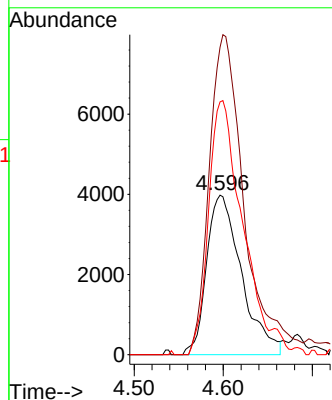
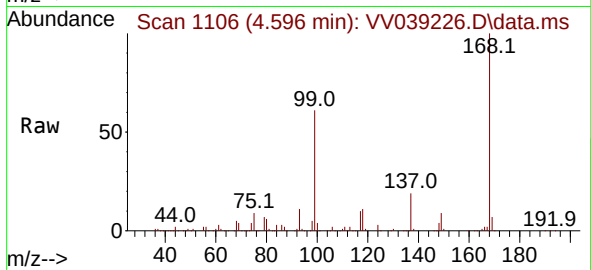




#31
Cyclohexane
Concen: 0.807 ug/l
RT: 4.596 min Scan# 1106
Delta R.T. 0.016 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

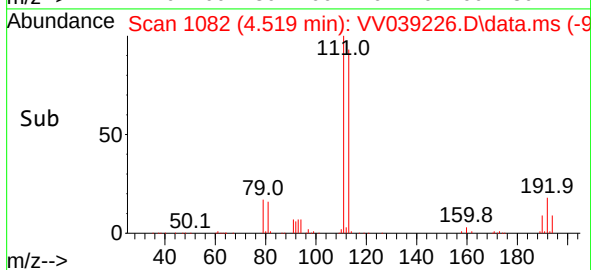
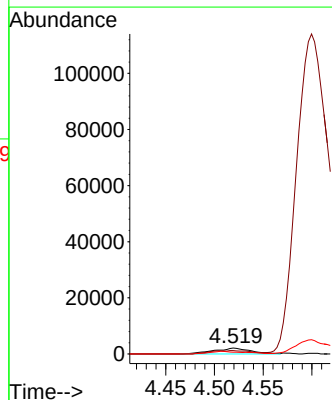
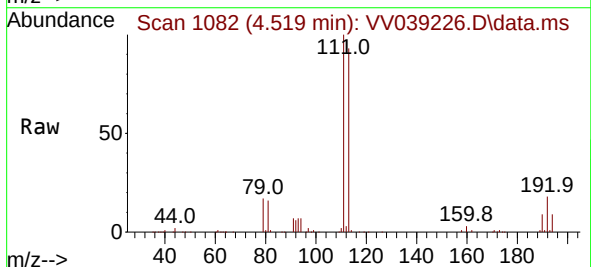
Instrument :
MSVOA_V
ClientSampleId :

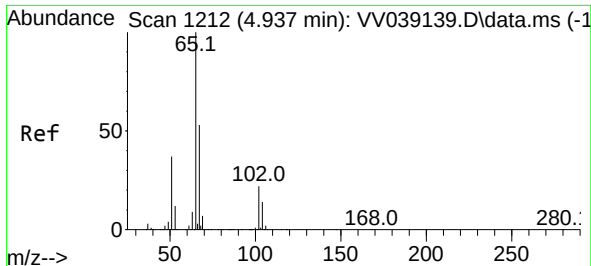
Tgt Ion: 56 Resp: 10831
Ion Ratio Lower Upper
56 100
69 192.7 26.2 39.2#
84 158.5 70.3 105.5#



#32
1,1,1-Trichloroethane
Concen: 0.372 ug/l
RT: 4.519 min Scan# 1082
Delta R.T. 0.009 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion: 97 Resp: 5516
Ion Ratio Lower Upper
97 100
99 0.0 49.6 74.4#
61 43.4 34.5 51.7





#33

1,2-Dichloroethane-d4

Concen: 51.579 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039226.D

Acq: 29 Sep 2025 13:08

Instrument :

MSVOA_V

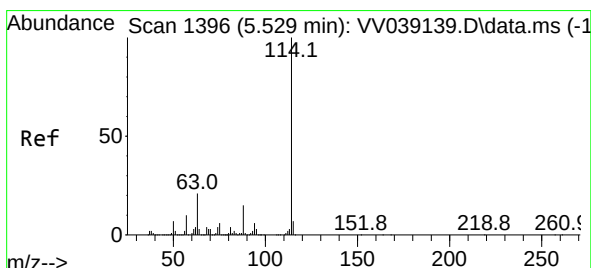
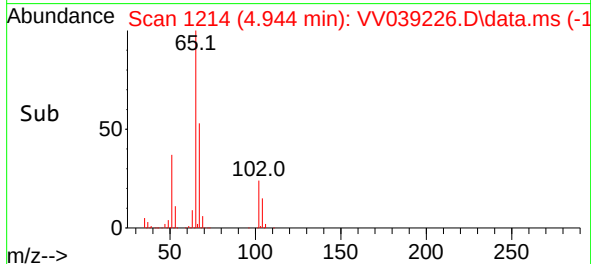
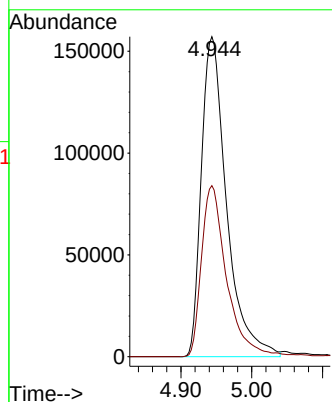
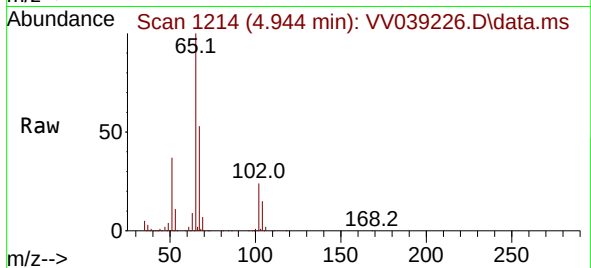
ClientSampleId :

Tgt Ion: 65 Resp: 388329

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: VV039226.D

Acq: 29 Sep 2025 13:08

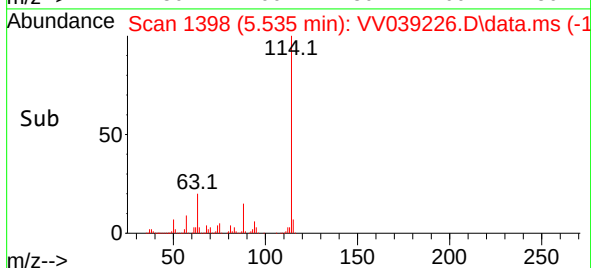
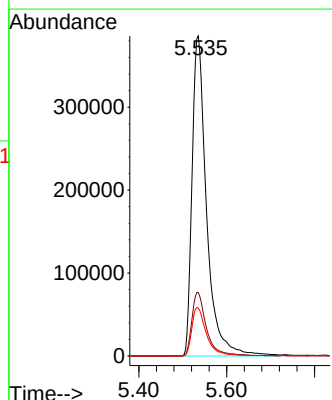
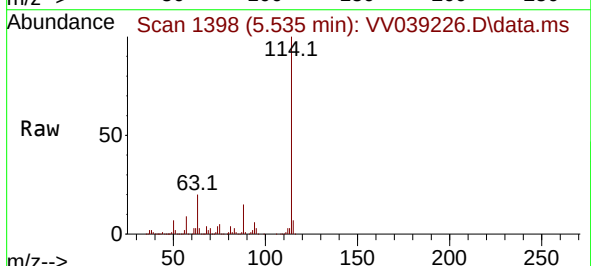
Tgt Ion: 114 Resp: 885532

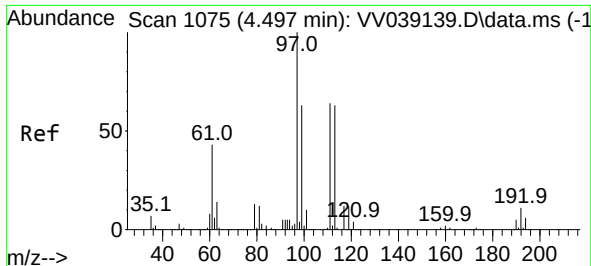
Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.6

88 15.0 0.0 30.8

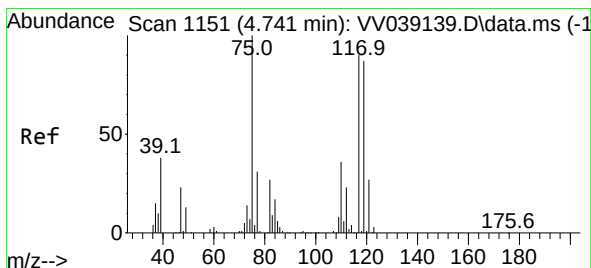
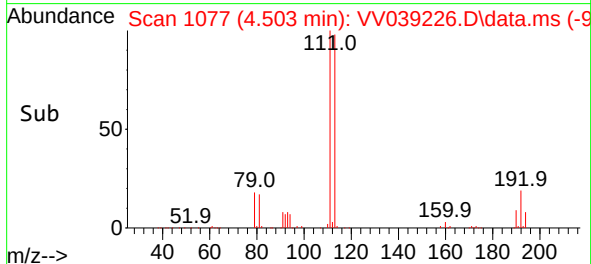
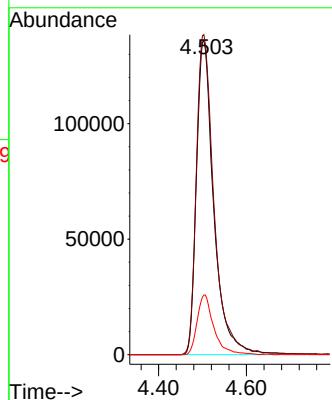
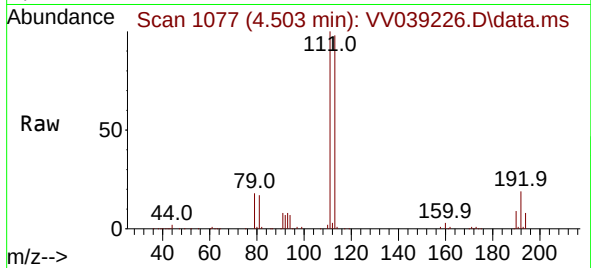




#35
Dibromofluoromethane
Concen: 52.317 ug/l
RT: 4.503 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

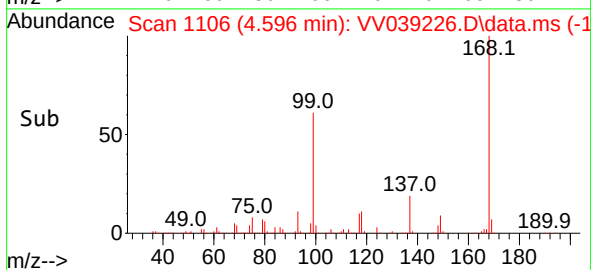
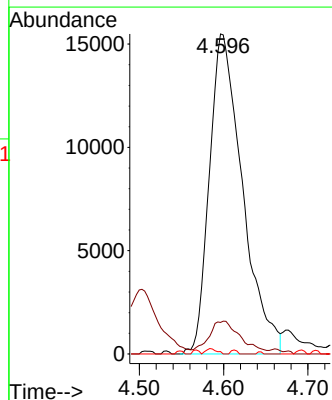
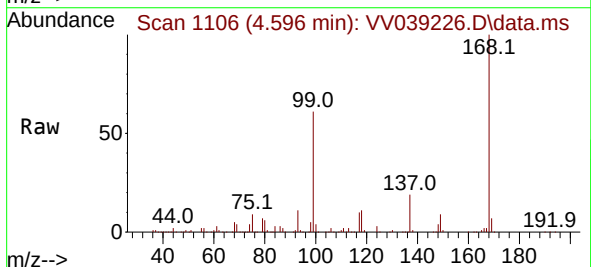
Instrument :
MSVOA_V
ClientSampleId :

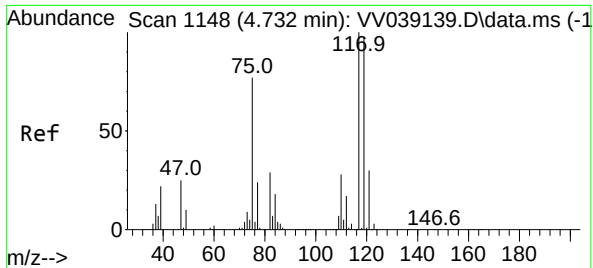
Tgt Ion:113 Resp: 372446
Ion Ratio Lower Upper
113 100
111 102.7 82.4 123.6
192 18.3 13.8 20.8



#36
1,1-Dichloropropene
Concen: 3.929 ug/l
RT: 4.596 min Scan# 1106
Delta R.T. -0.145 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

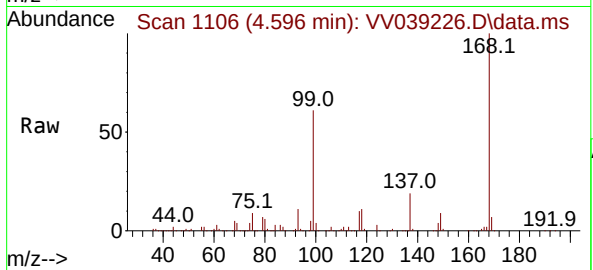
Tgt Ion: 75 Resp: 42284
Ion Ratio Lower Upper
75 100
110 8.3 18.1 54.1#
77 0.5 24.8 37.2#



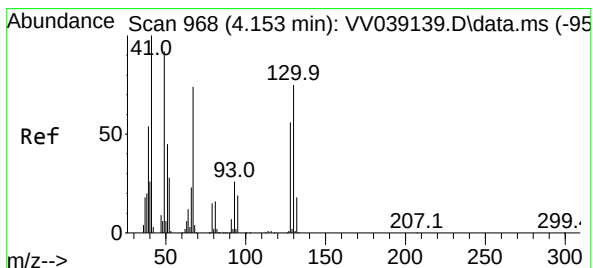
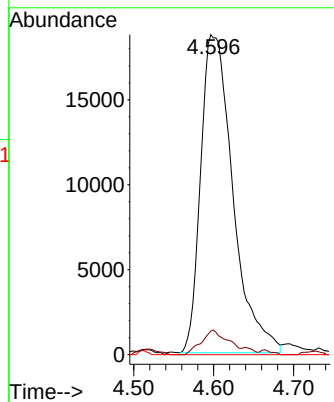
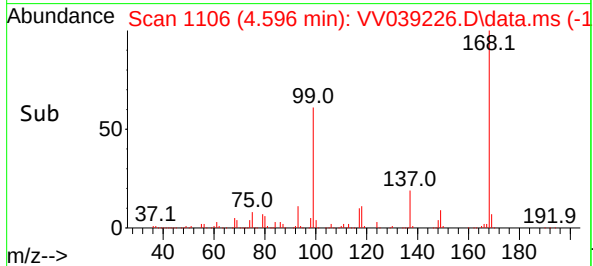


#38
Carbon Tetrachloride
Concen: 3.991 ug/l
RT: 4.596 min Scan# 1148
Delta R.T. -0.136 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Instrument :
MSVOA_V
ClientSampleId :

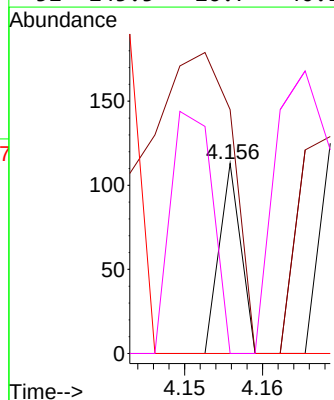
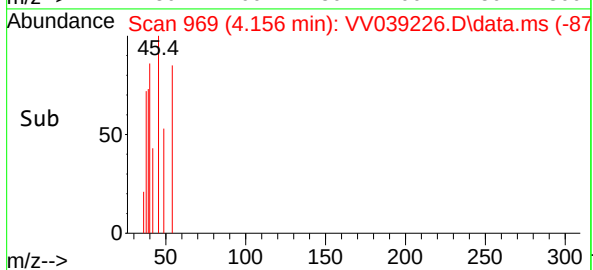
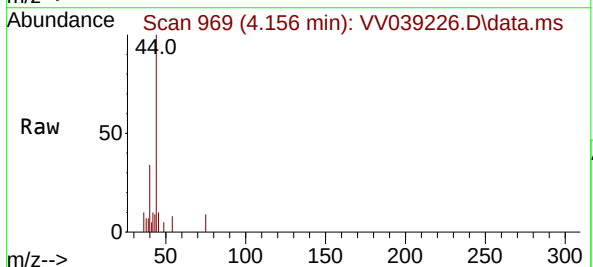


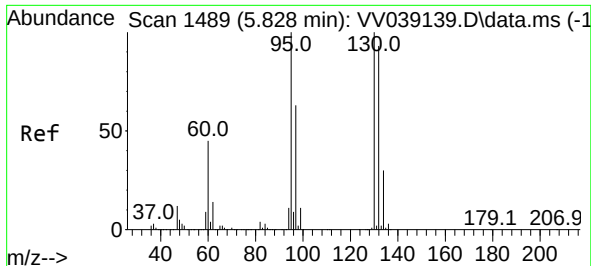
Tgt Ion:117 Resp: 52493
Ion Ratio Lower Upper
117 100
119 7.4 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.914 ug/l
RT: 4.156 min Scan# 969
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion: 41 Resp: 22
Ion Ratio Lower Upper
41 100
39 550.0 42.2 63.2#
67 295.5 67.9 101.9#
52 245.5 26.7 40.1#

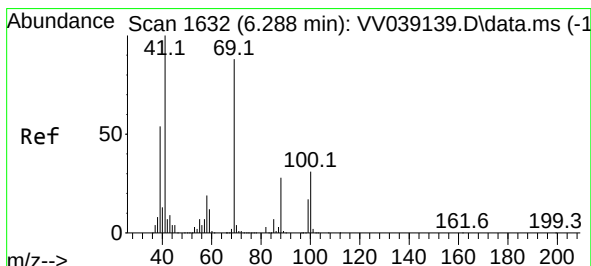
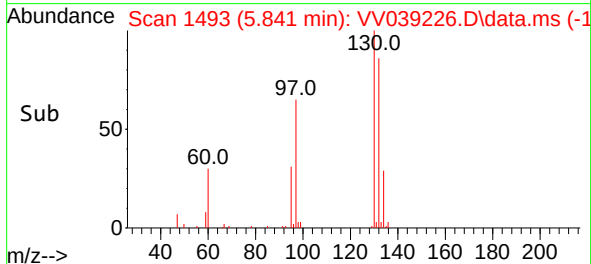
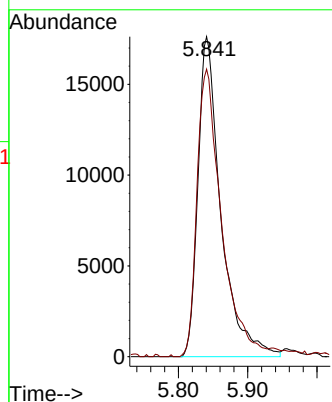
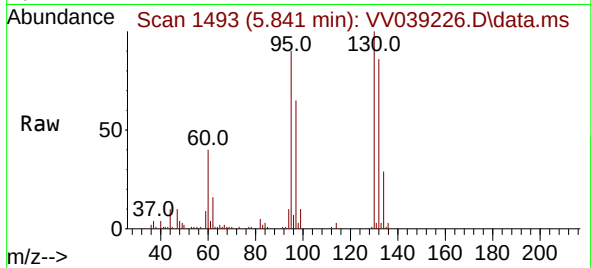




#44
Trichloroethene
Concen: 5.015 ug/l
RT: 5.841 min Scan# 1489
Delta R.T. 0.013 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

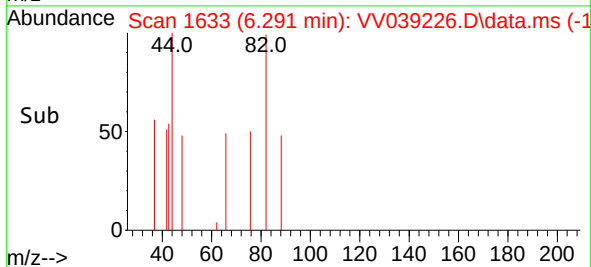
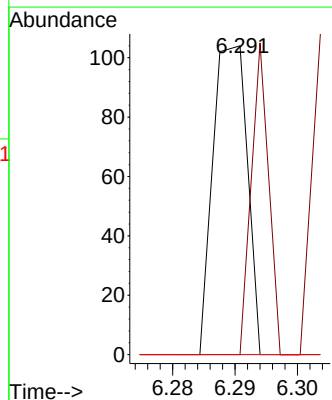
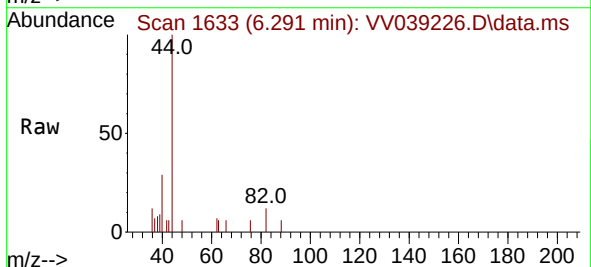
Instrument :
MSVOA_V
ClientSampleId :

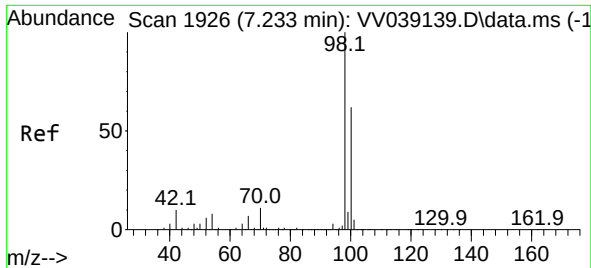
Tgt Ion:130 Resp: 40560
Ion Ratio Lower Upper
130 100
95 89.9 0.0 199.2



#49
1,4-Dioxane
Concen: 0.307 ug/l
RT: 6.291 min Scan# 1633
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion: 88 Resp: 40
Ion Ratio Lower Upper
88 100
43 50.0 25.1 37.7#
58 0.0 53.6 80.4#

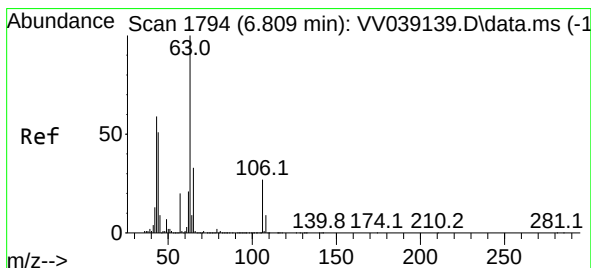
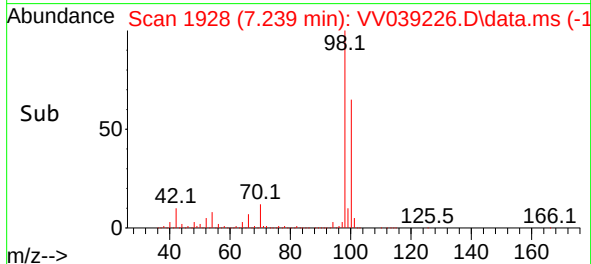
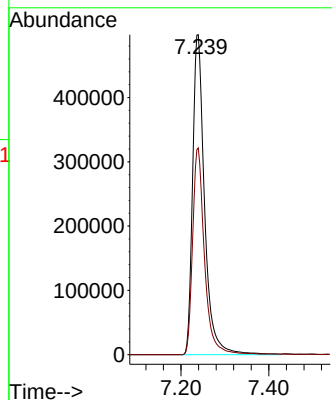
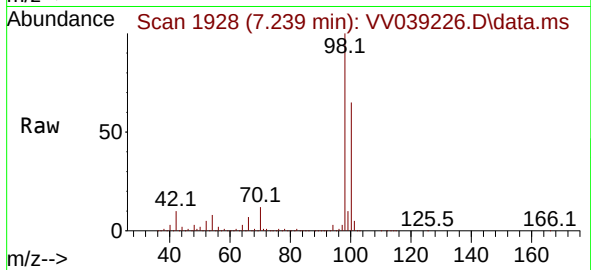




#50
Toluene-d8
Concen: 45.048 ug/l
RT: 7.239 min Scan# 1926
Delta R.T. 0.006 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

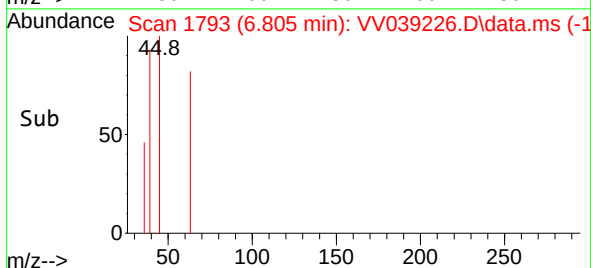
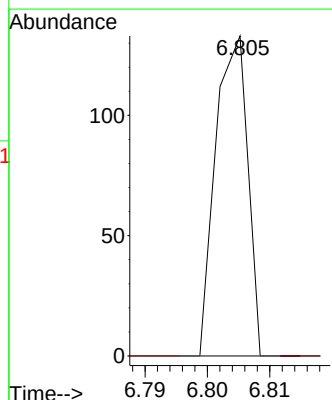
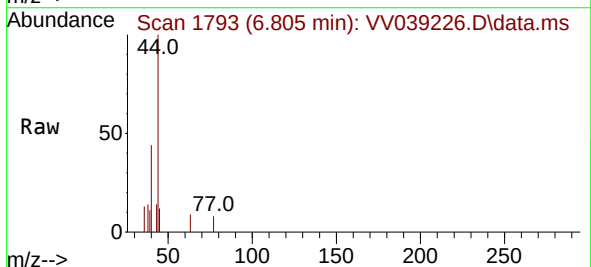
Instrument :
MSVOA_V
ClientSampleId :

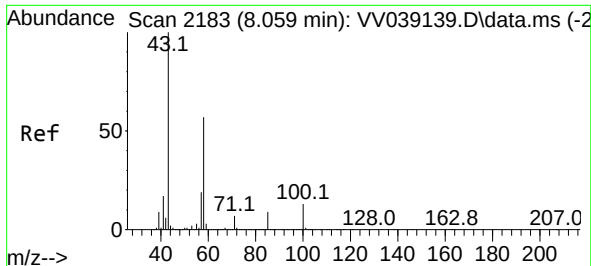
Tgt Ion: 98 Resp: 941881
Ion Ratio Lower Upper
98 100
100 64.3 52.2 78.2



#58
2-Chloroethyl Vinyl ether
Concen: 9.630 ug/l
RT: 6.805 min Scan# 1793
Delta R.T. -0.004 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion: 63 Resp: 47
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#

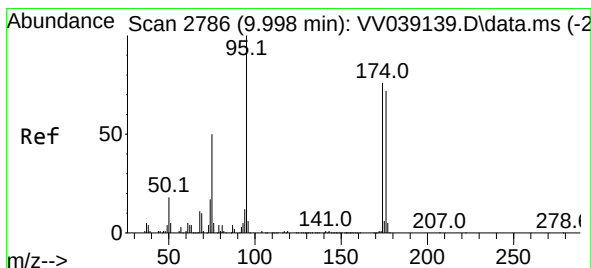
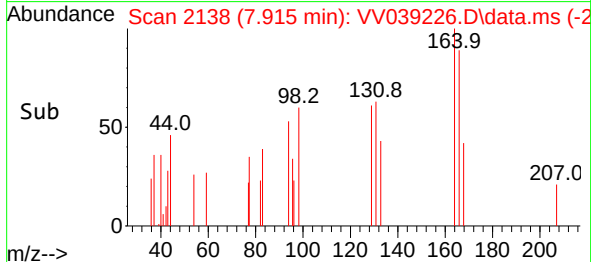
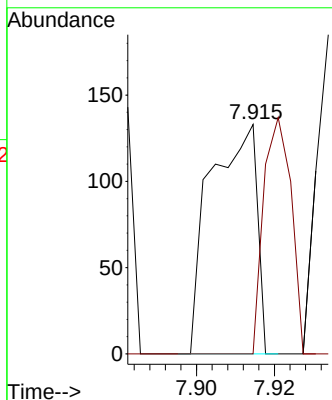
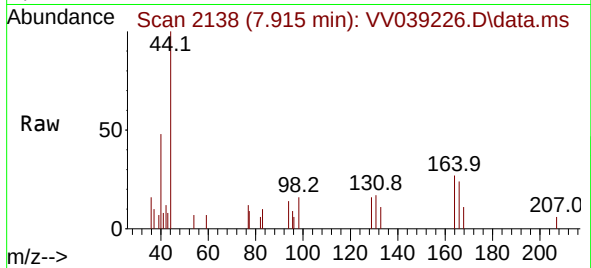




#59
2-Hexanone
Concen: 2.337 ug/l
RT: 7.915 min Scan# 2183
Delta R.T. -0.144 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

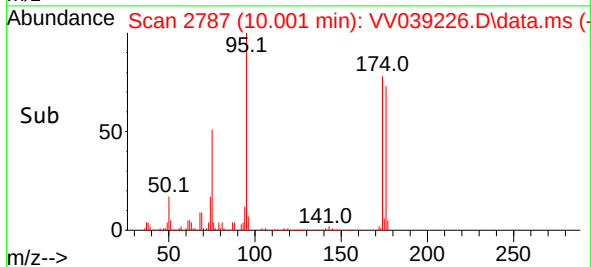
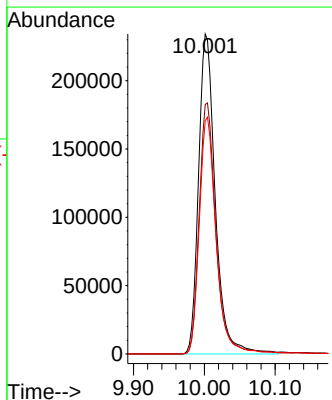
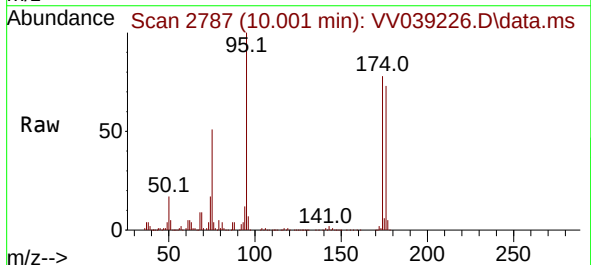
Instrument :
MSVOA_V
ClientSampleId :

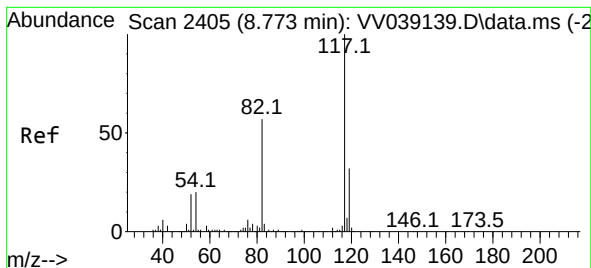
Tgt Ion: 43 Resp: 110
Ion Ratio Lower Upper
43 100
58 60.9 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 44.651 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion: 95 Resp: 384328
Ion Ratio Lower Upper
95 100
174 78.8 0.0 150.4
176 74.1 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

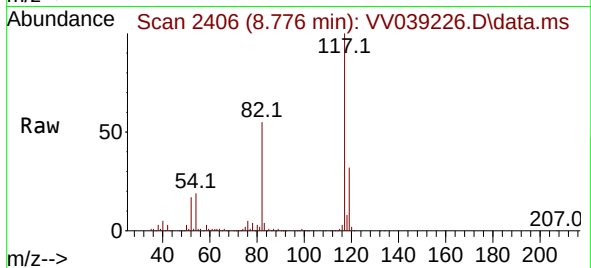
Lab File: VV039226.D

Acq: 29 Sep 2025 13:08

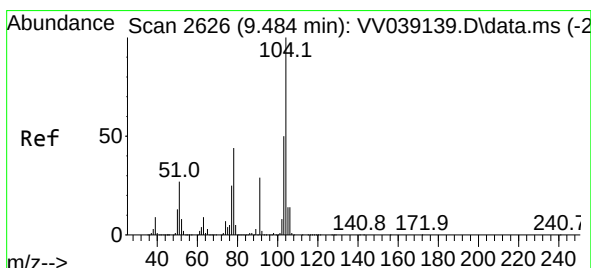
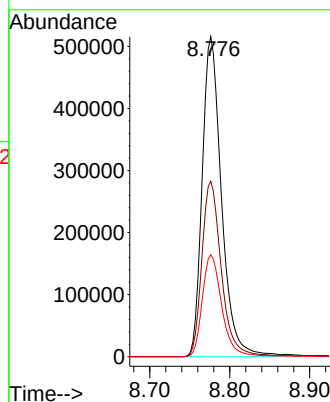
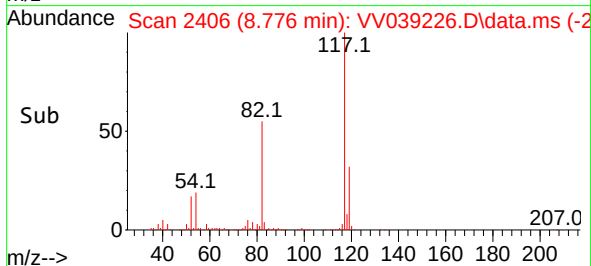
Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:	117	Resp:	868036
Ion	Ratio	Lower	Upper
117	100		
82	54.9	45.4	68.2
119	31.9	25.6	38.4



#70

Styrene

Concen: 1.563 ug/l

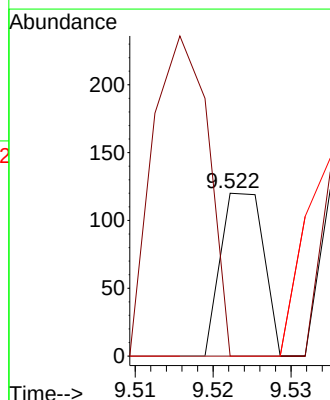
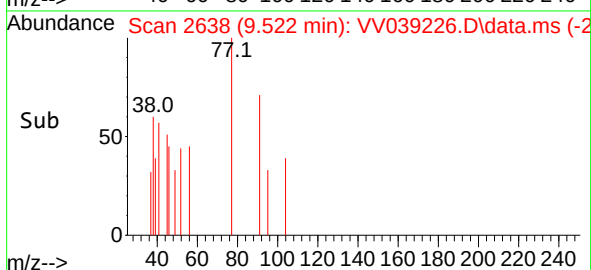
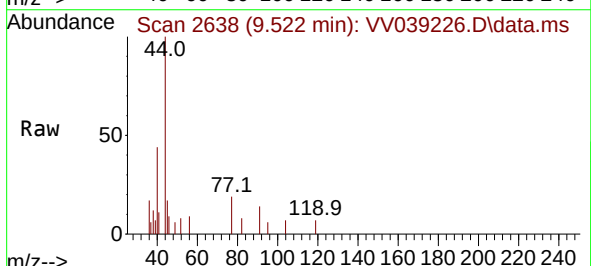
RT: 9.522 min Scan# 2638

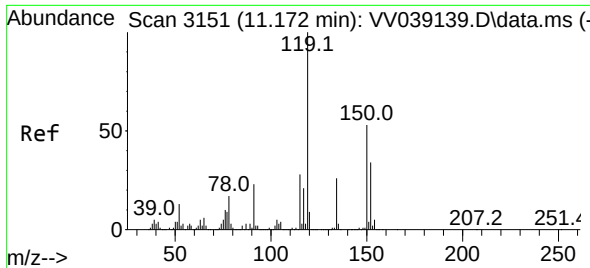
Delta R.T. 0.038 min

Lab File: VV039226.D

Acq: 29 Sep 2025 13:08

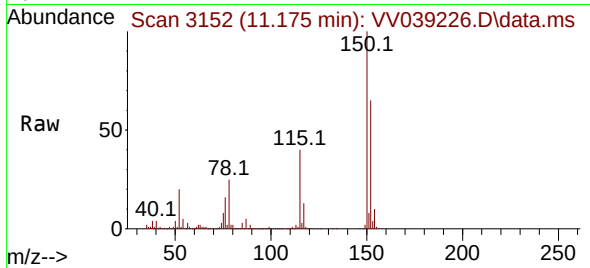
Tgt Ion:	104	Resp:	46
Ion	Ratio	Lower	Upper
104	100		
78	254.3	39.8	59.6#
103	0.0	43.4	65.2#



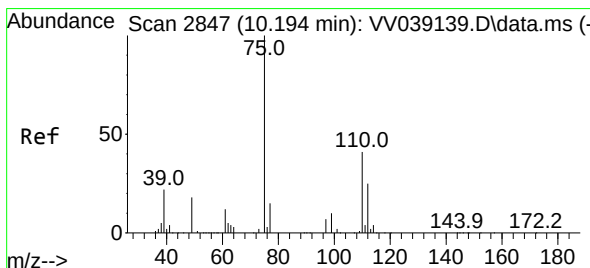
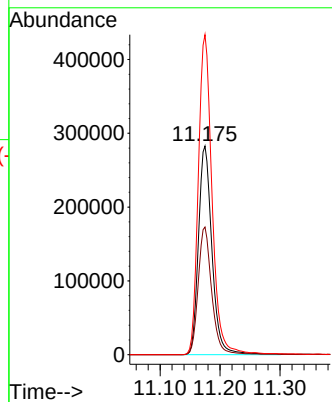
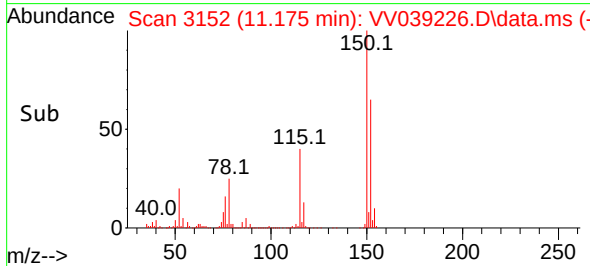


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.175 min Scan# 3151
 Delta R.T. 0.003 min
 Lab File: VV039226.D
 Acq: 29 Sep 2025 13:08

Instrument :
 MSVOA_V
 ClientSampleId :

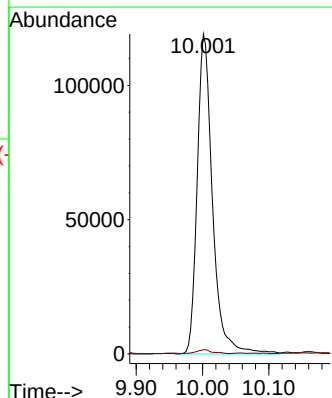
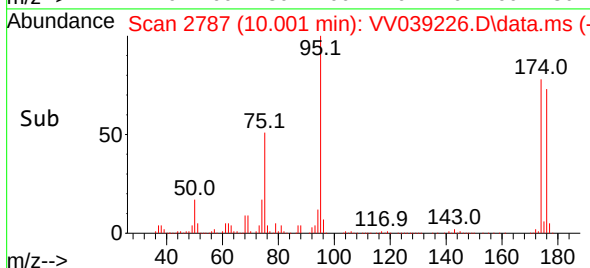
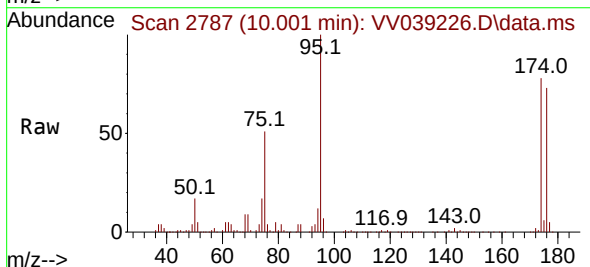


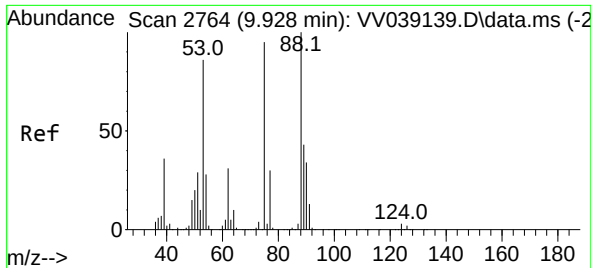
Tgt Ion:152 Resp: 445110
 Ion Ratio Lower Upper
 152 100
 115 61.1 44.8 134.4
 150 154.6 0.0 353.8



#76
 1,2,3-Trichloropropane
 Concen: 18.852 ug/l
 RT: 10.001 min Scan# 2787
 Delta R.T. -0.193 min
 Lab File: VV039226.D
 Acq: 29 Sep 2025 13:08

Tgt Ion: 75 Resp: 191054
 Ion Ratio Lower Upper
 75 100
 77 1.3 11.3 33.8#

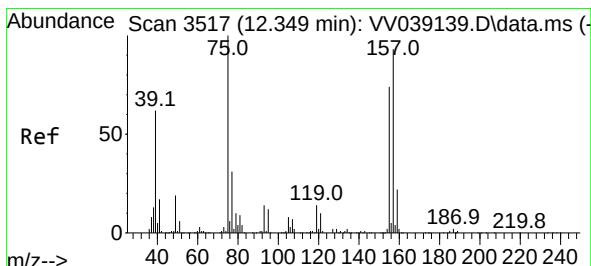
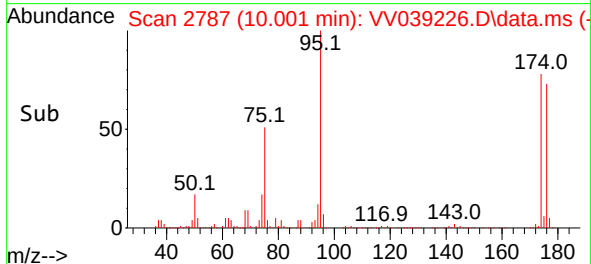
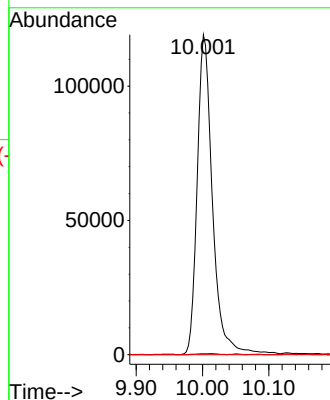
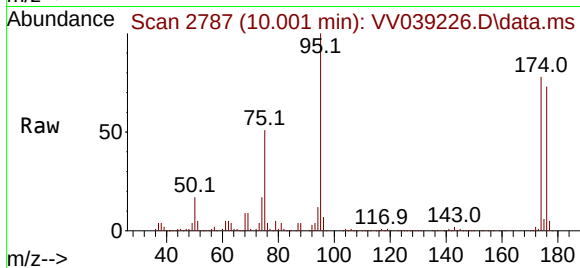




#81
trans-1,4-Dichloro-2-butene
Concen: 45.258 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

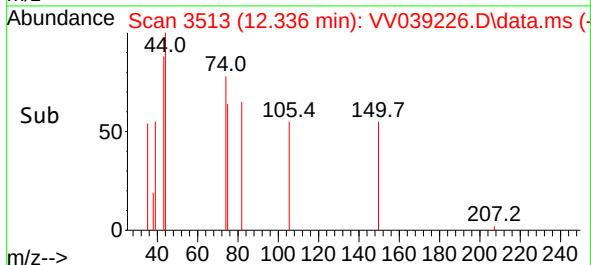
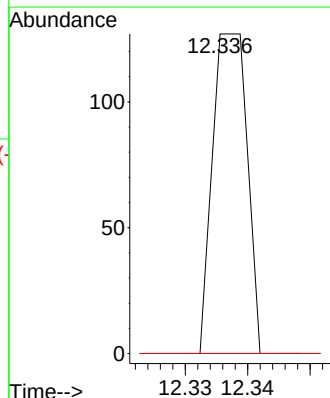
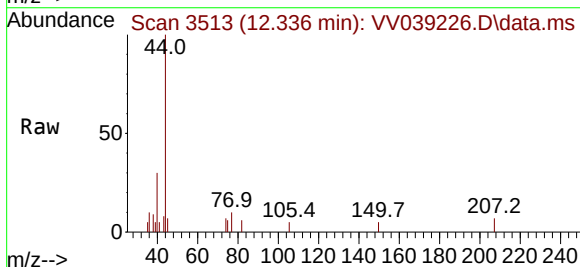
Instrument :
MSVOA_V
ClientSampleId :

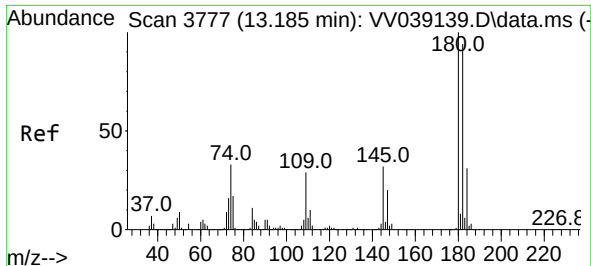
Tgt Ion: 75 Resp: 191054
Ion Ratio Lower Upper
75 100
53 0.5 72.5 108.7#
89 0.0 37.2 55.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.336 min Scan# 3513
Delta R.T. -0.013 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion: 75 Resp: 49
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#





#93

1,2,4-Trichlorobenzene

Concen: 0.209 ug/l

RT: 13.210 min Scan# 31

Delta R.T. 0.025 min

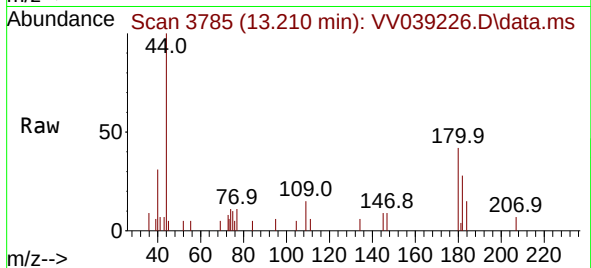
Lab File: VV039226.D

Acq: 29 Sep 2025 13:08

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:180 Resp: 1898

Ion Ratio Lower Upper

180 100

182 87.1 47.1 141.4

145 24.1 16.3 48.8

