

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV110425\
 Data File : VV039313.D
 Acq On : 04 Nov 2025 14:34
 Operator : SY/MD
 Sample : Q3434-02RE
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 05 00:37:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V100725W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:01:26 2025
 Response via : Initial Calibration

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

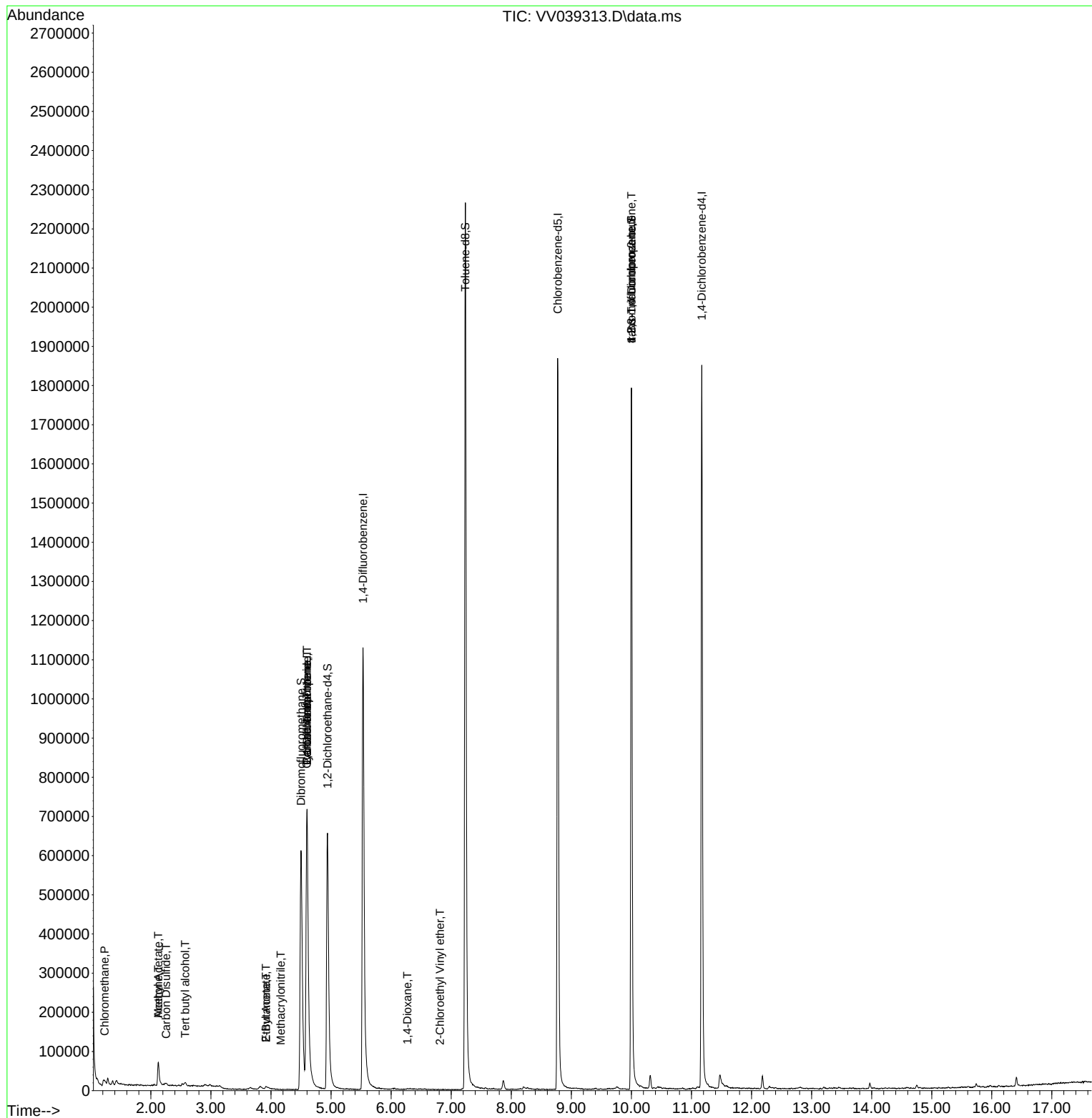
Internal Standards						
1) Pentafluorobenzene	4.600	168	632494	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1126953	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1080628	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	492663	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	588764	65.510	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	131.020%#
35) Dibromofluoromethane	4.500	113	512576	57.725	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	115.460%
50) Toluene-d8	7.236	98	1626339	53.838	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	107.680%
62) 4-Bromofluorobenzene	10.001	95	627116	58.292	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	116.580%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.230	50	2159	0.259	ug/l #	83
6) Chloroethane	1.558	64	418	Below Cal	#	43
11) Tert butyl alcohol	2.571	59	4060	2.331	ug/l	99
13) Acrolein	2.005	56	442	Below Cal	#	19
16) Acetone	2.124	43	79561	9.137	ug/l	96
17) Carbon Disulfide	2.256	76	8462	0.351	ug/l #	95
18) Methyl Acetate	2.124	43	79561	6.832	ug/l #	51
20) Methylene Chloride	2.461	84	1078	Below Cal	#	62
25) 2-Butanone	3.915	43	11117	2.023	ug/l	100
31) Cyclohexane	4.596	56	13549	1.144	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	51881	4.652	ug/l #	45
37) Ethyl Acetate	3.915	43	11117	0.851	ug/l #	67
38) Carbon Tetrachloride	4.600	117	67862	4.994	ug/l #	17
41) Methacrylonitrile	4.162	41	78	1.705	ug/l #	17
49) 1,4-Dioxane	6.272	88	52	0.395	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.815	63	23	8.471	ug/l #	45
76) 1,2,3-Trichloropropane	10.001	75	299910	30.500	ug/l #	54
81) trans-1,4-Dichloro-2-b...	10.001	75	299910	77.028	ug/l #	14

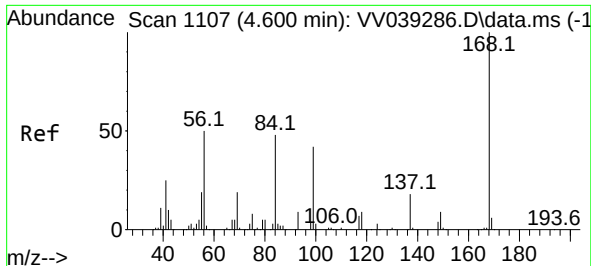
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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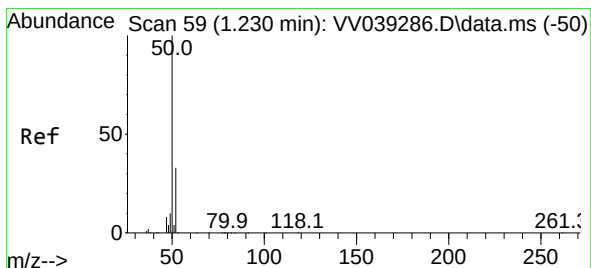
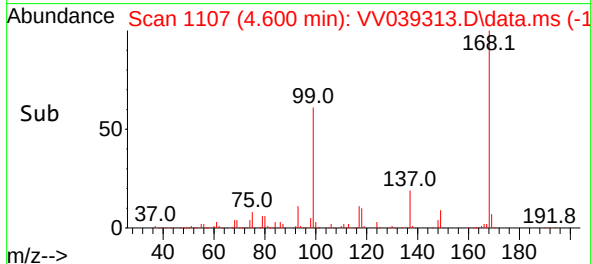
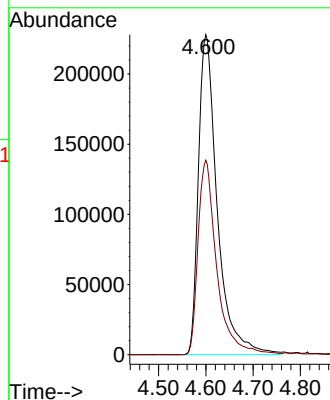
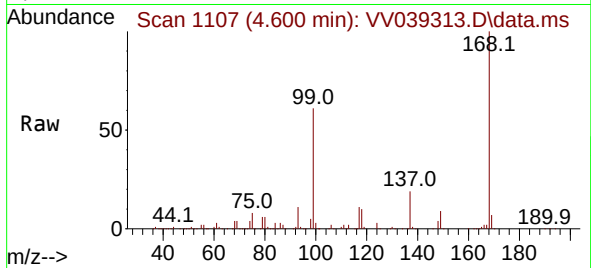




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.000 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

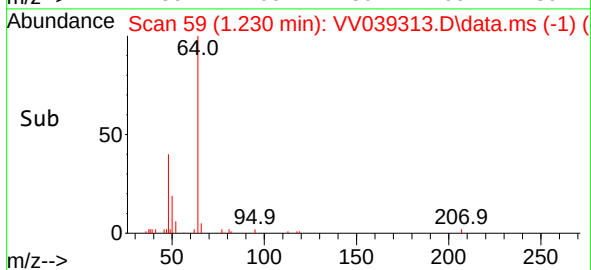
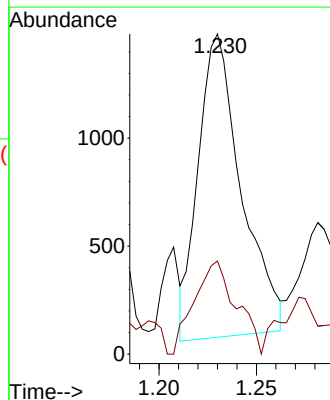
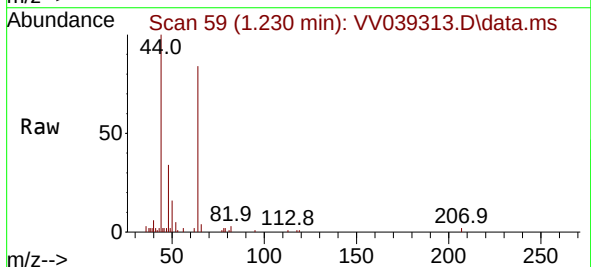
Instrument :
MSVOA_V
ClientSampleId :

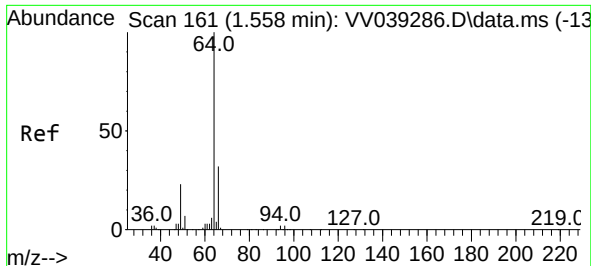
Tgt Ion:168 Resp: 632494
Ion Ratio Lower Upper
168 100
99 60.8 46.6 70.0



#3
Chloromethane
Concen: 0.259 ug/l
RT: 1.230 min Scan# 59
Delta R.T. 0.000 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

Tgt Ion: 50 Resp: 2159
Ion Ratio Lower Upper
50 100
52 23.7 26.6 39.8#

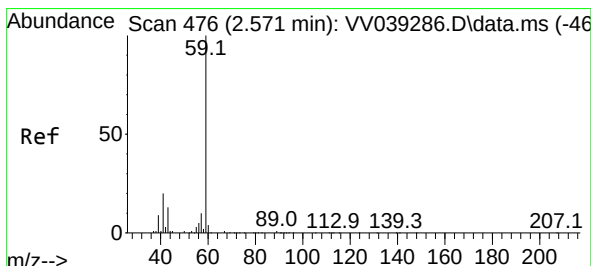
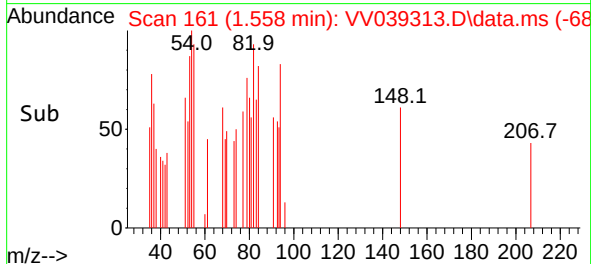
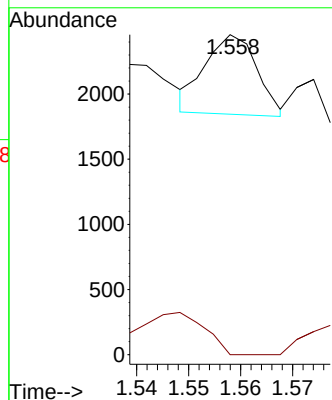
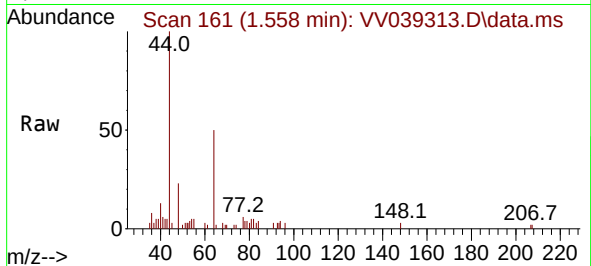




#6
Chloroethane
Concen: Below Cal
RT: 1.558 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

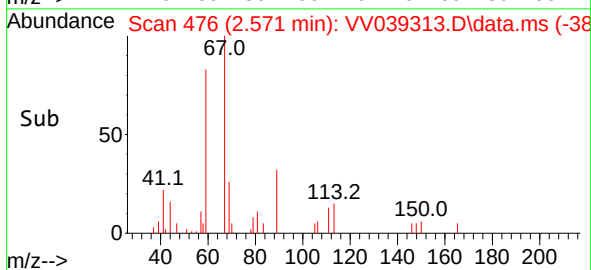
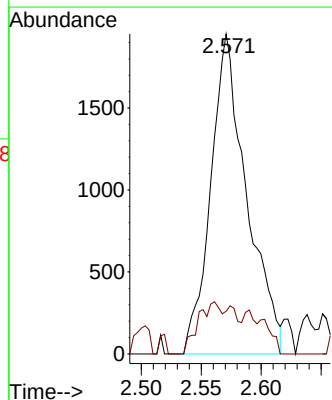
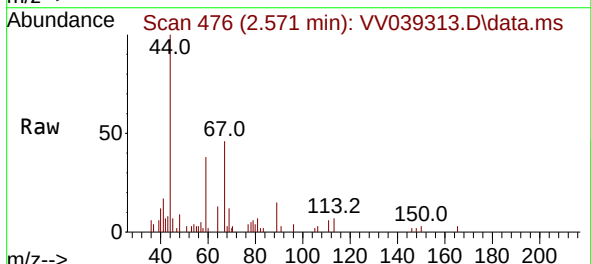
Instrument :
MSVOA_V
ClientSampleId :

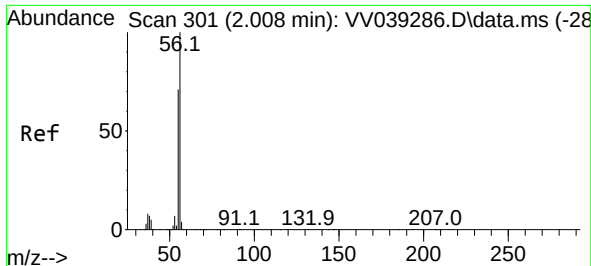
Tgt Ion: 64 Resp: 418
Ion Ratio Lower Upper
64 100
66 0.0 25.7 38.5#



#11
Tert butyl alcohol
Concen: 2.331 ug/l
RT: 2.571 min Scan# 476
Delta R.T. 0.000 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

Tgt Ion: 59 Resp: 4060
Ion Ratio Lower Upper
59 100
57 10.6 8.1 12.1

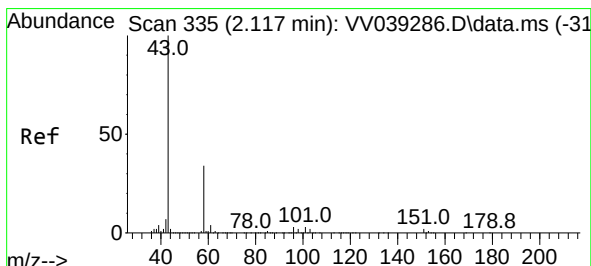
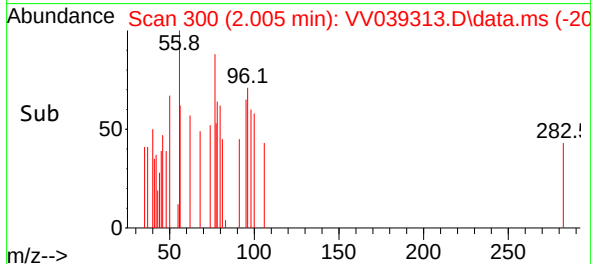
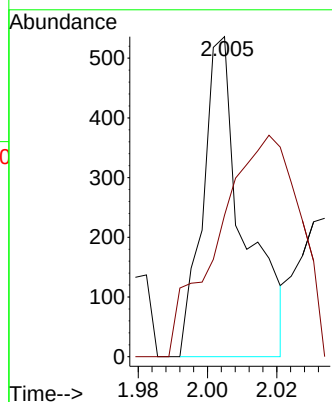
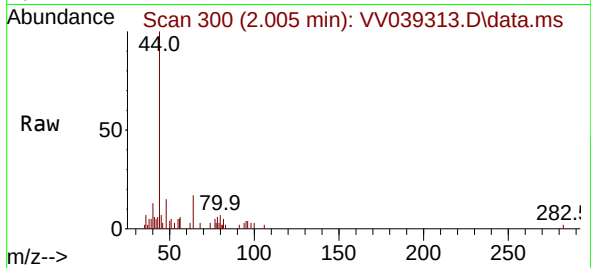




#13
Acrolein
Concen: Below Cal
RT: 2.005 min Scan# 301
Delta R.T. -0.003 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

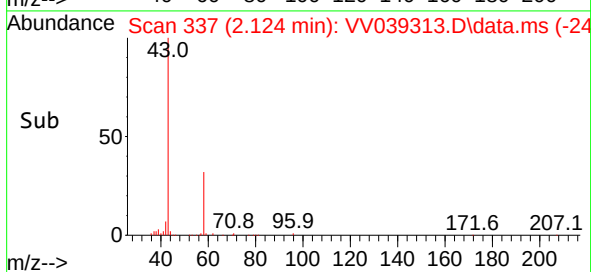
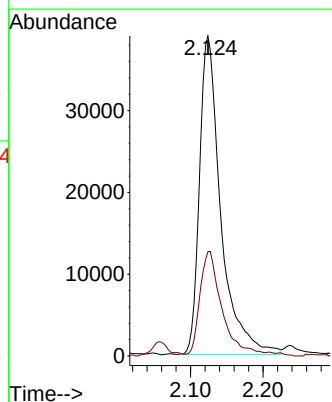
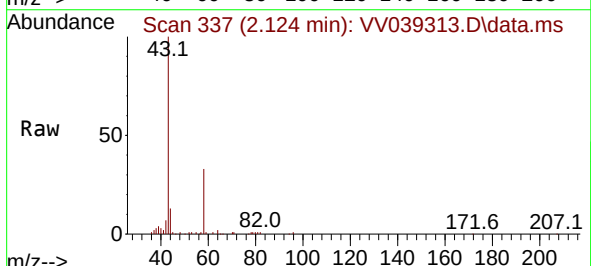
Instrument :
MSVOA_V
ClientSampleId :

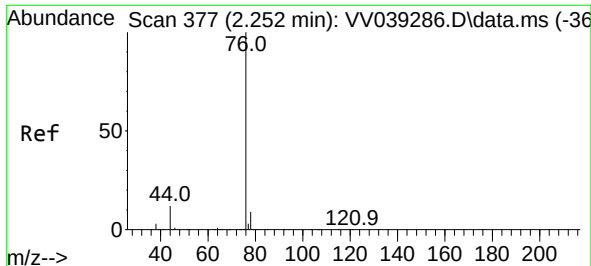
Tgt Ion: 56 Resp: 442
Ion Ratio Lower Upper
56 100
55 136.7 56.2 84.4#



#16
Acetone
Concen: 9.137 ug/l
RT: 2.124 min Scan# 337
Delta R.T. 0.006 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

Tgt Ion: 43 Resp: 79561
Ion Ratio Lower Upper
43 100
58 31.9 27.5 41.3

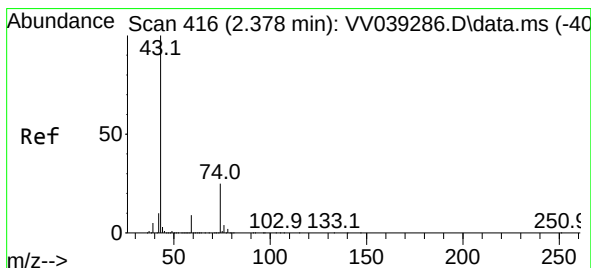
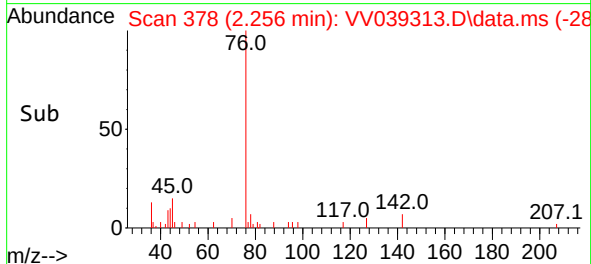
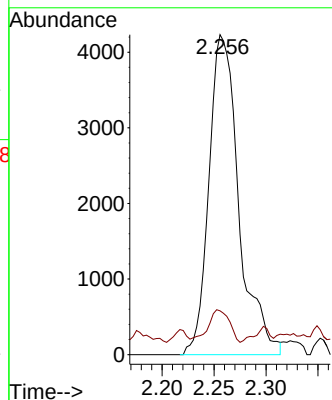
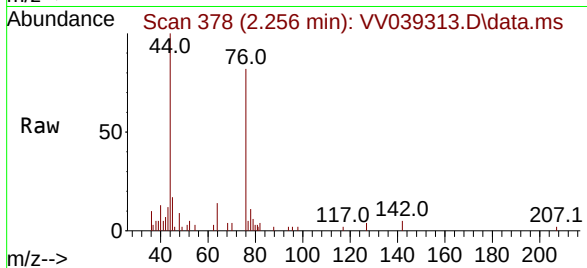




#17
Carbon Disulfide
Concen: 0.351 ug/l
RT: 2.256 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

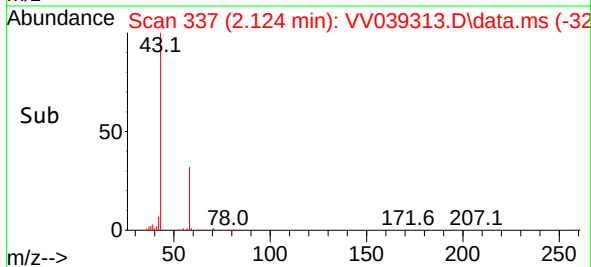
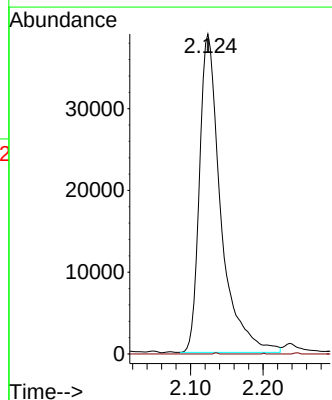
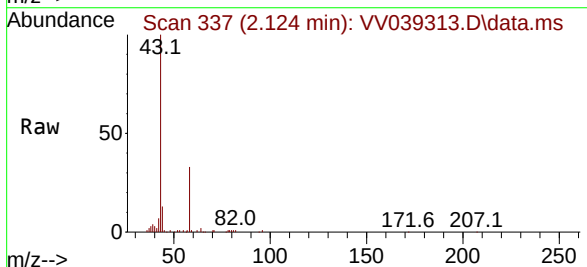
Instrument :
MSVOA_V
ClientSampleId :

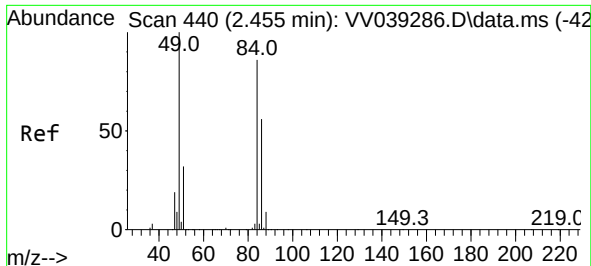
Tgt Ion: 76 Resp: 8462
Ion Ratio Lower Upper
76 100
78 7.3 7.4 11.0#



#18
Methyl Acetate
Concen: 6.832 ug/l
RT: 2.124 min Scan# 337
Delta R.T. -0.254 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

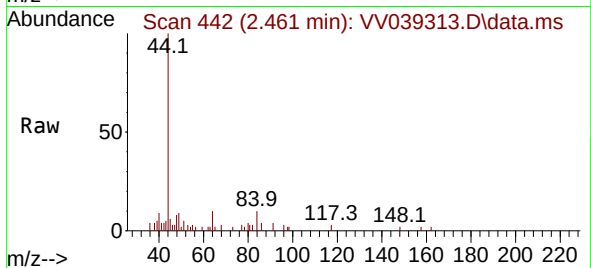
Tgt Ion: 43 Resp: 79561
Ion Ratio Lower Upper
43 100
74 0.1 19.5 29.3#



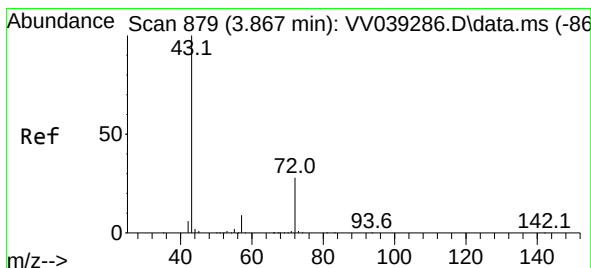
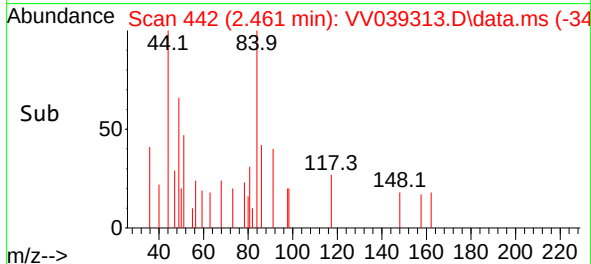
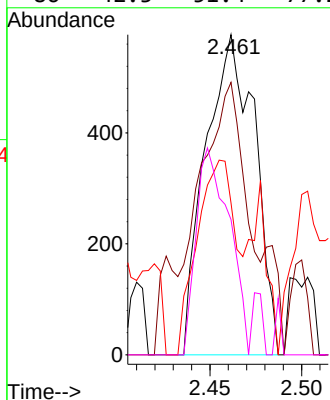


#20
Methylene Chloride
Concen: Below Cal
RT: 2.461 min Scan# 440
Delta R.T. 0.006 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

Instrument :
MSVOA_V
ClientSampleId :

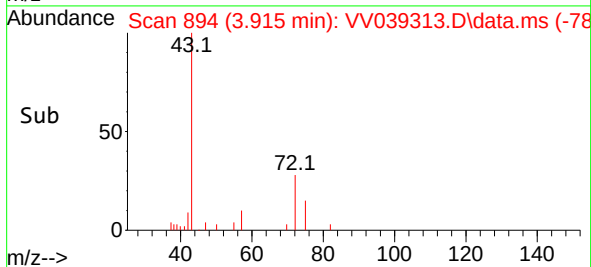
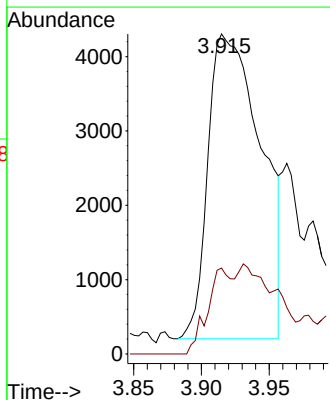
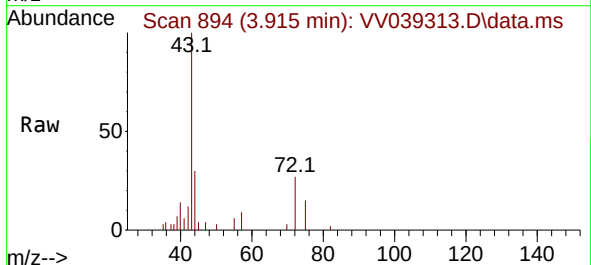


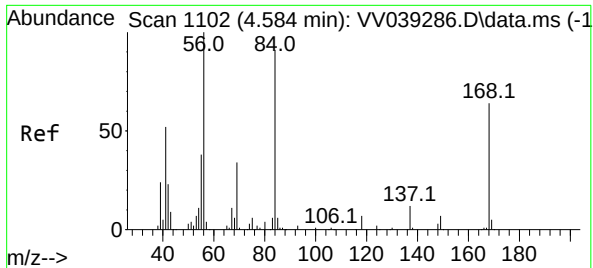
Tgt Ion: 84 Resp: 1078
Ion Ratio Lower Upper
84 100
49 60.7 92.6 139.0#
51 47.5 29.6 44.4#
86 42.3 51.4 77.2#



#25
2-Butanone
Concen: 2.023 ug/l
RT: 3.915 min Scan# 894
Delta R.T. 0.048 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

Tgt Ion: 43 Resp: 11117
Ion Ratio Lower Upper
43 100
72 28.2 22.6 34.0

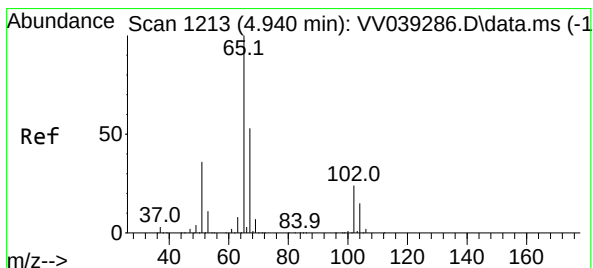
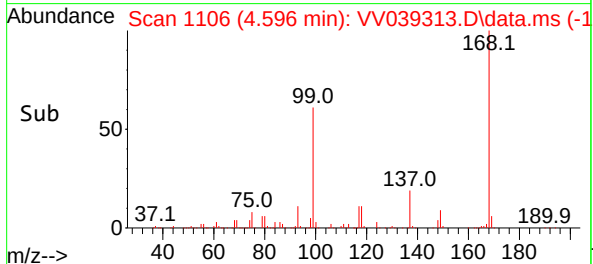
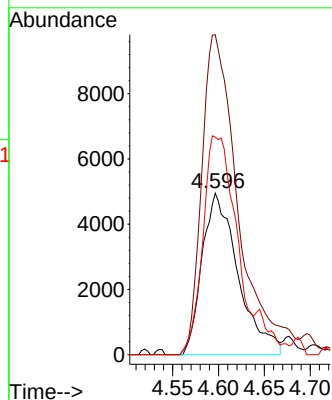
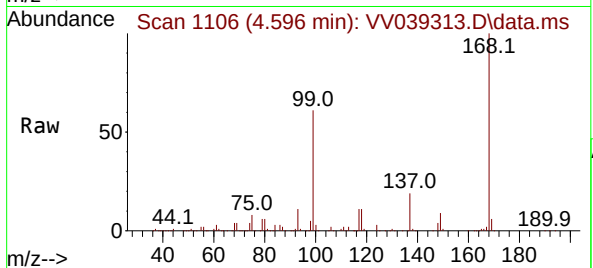




#31
Cyclohexane
Concen: 1.144 ug/l
RT: 4.596 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

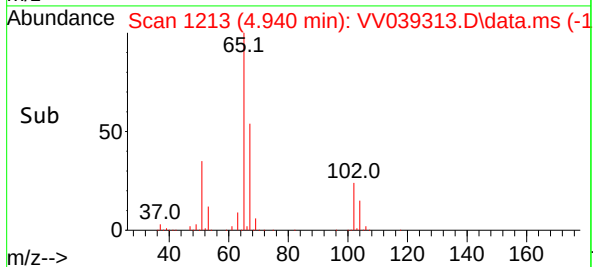
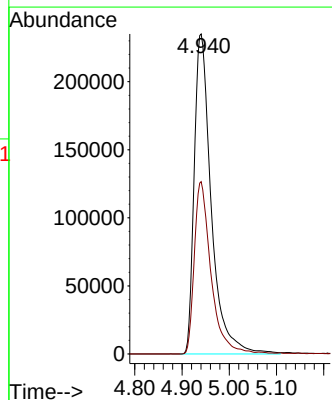
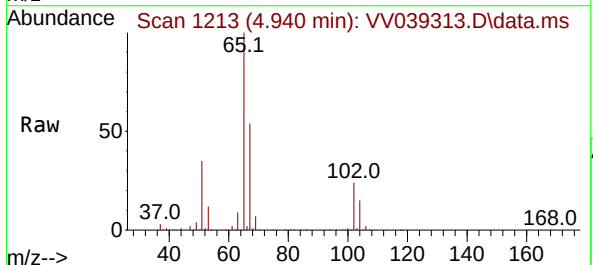
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MSVOA_V
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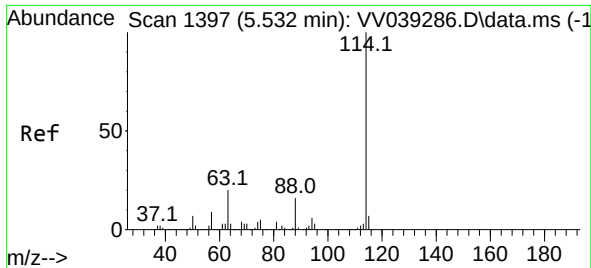
Tgt Ion: 56 Resp: 13549
Ion Ratio Lower Upper
56 100
69 198.1 27.4 41.0#
84 134.7 72.8 109.2#



#33
1,2-Dichloroethane-d4
Concen: 65.510 ug/l
RT: 4.940 min Scan# 1213
Delta R.T. 0.000 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

Tgt Ion: 65 Resp: 588764
Ion Ratio Lower Upper
65 100
67 52.5 0.0 108.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 11

Delta R.T. 0.000 min

Lab File: VV039313.D

Acq: 04 Nov 2025 14:34

Instrument :

MSVOA_V

ClientSampleId :

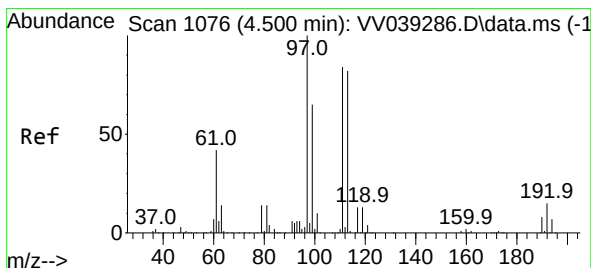
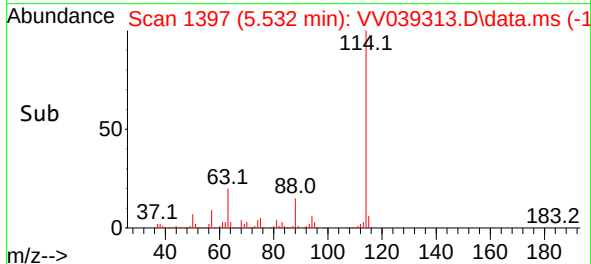
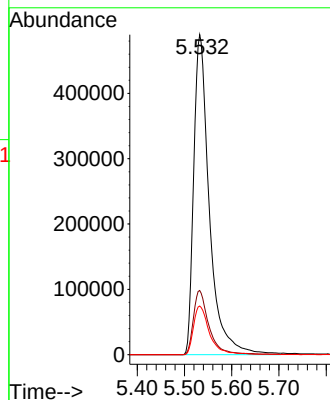
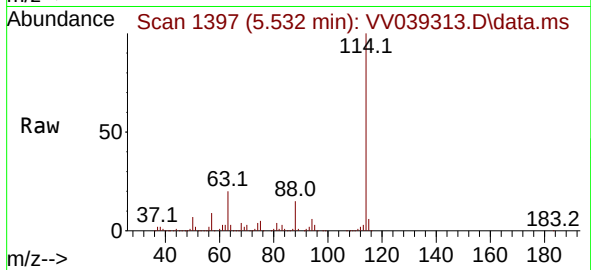
Tgt Ion:114 Resp: 1126953

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

88 15.2 0.0 31.6



#35

Dibromofluoromethane

Concen: 57.725 ug/l

RT: 4.500 min Scan# 1076

Delta R.T. 0.000 min

Lab File: VV039313.D

Acq: 04 Nov 2025 14:34

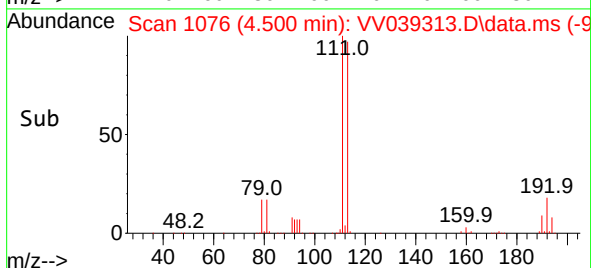
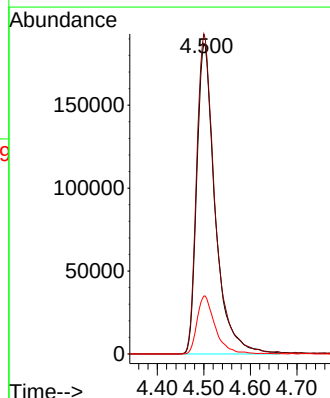
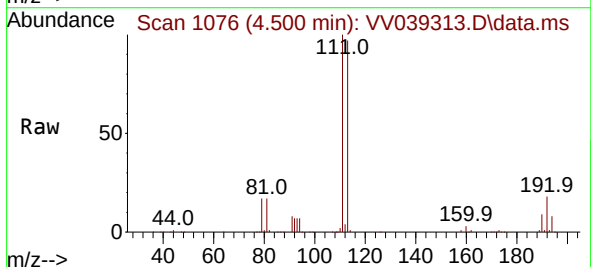
Tgt Ion:113 Resp: 512576

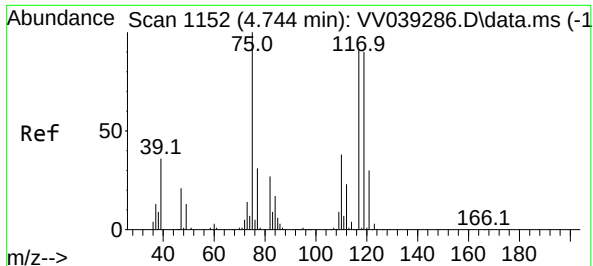
Ion Ratio Lower Upper

113 100

111 102.5 82.0 123.0

192 18.0 14.3 21.5





#36

1,1-Dichloropropene

Concen: 4.652 ug/l

RT: 4.600 min Scan# 1152

Delta R.T. -0.145 min

Lab File: VV039313.D

Acq: 04 Nov 2025 14:34

Instrument :

MSVOA_V

ClientSampleId :

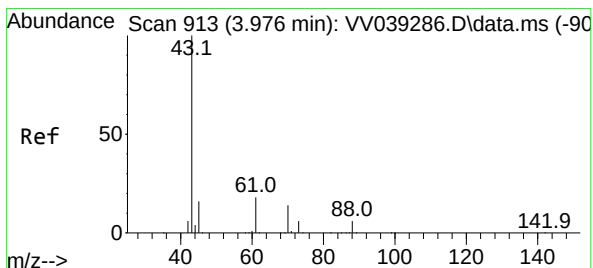
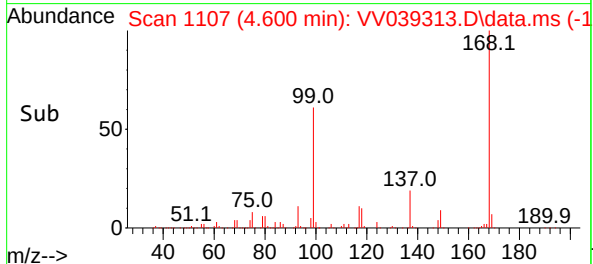
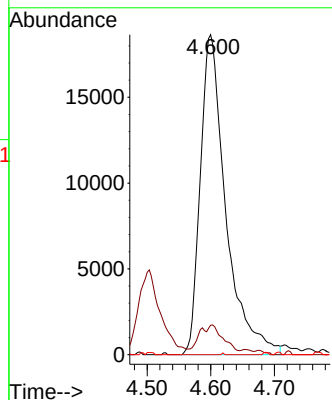
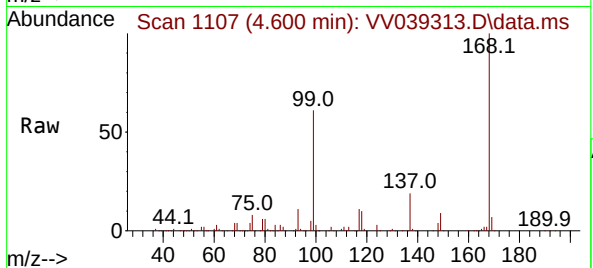
Tgt Ion: 75 Resp: 51881

Ion Ratio Lower Upper

75 100

110 4.5 18.9 56.7#

77 0.0 24.1 36.1#



#37

Ethyl Acetate

Concen: 0.851 ug/l

RT: 3.915 min Scan# 894

Delta R.T. -0.061 min

Lab File: VV039313.D

Acq: 04 Nov 2025 14:34

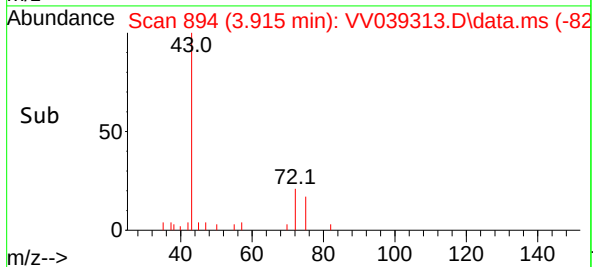
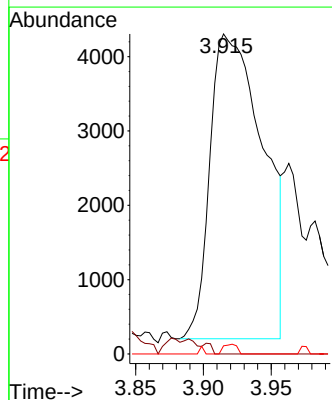
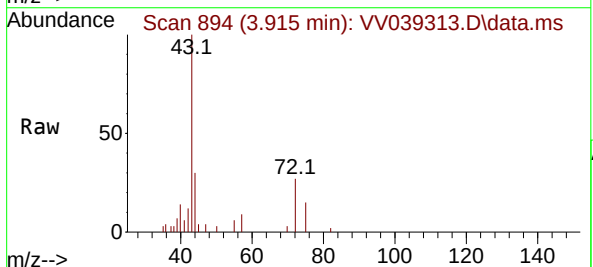
Tgt Ion: 43 Resp: 11117

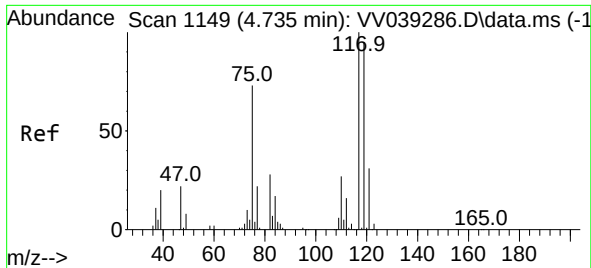
Ion Ratio Lower Upper

43 100

61 0.0 12.2 18.2#

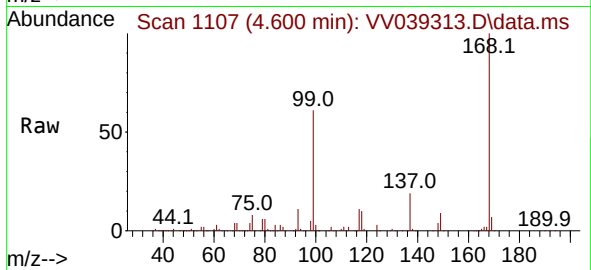
70 0.8 9.0 13.4#



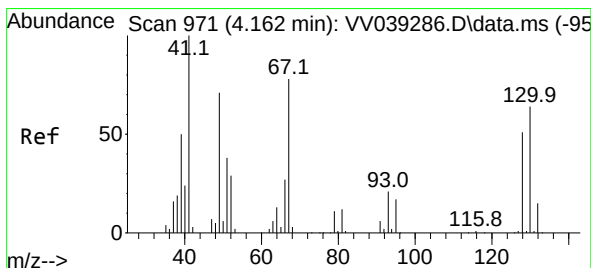
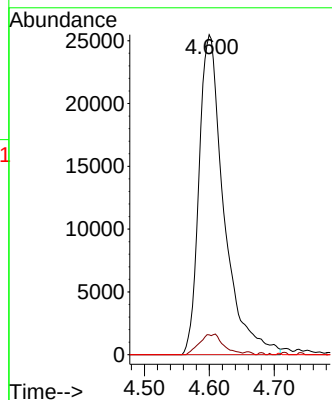
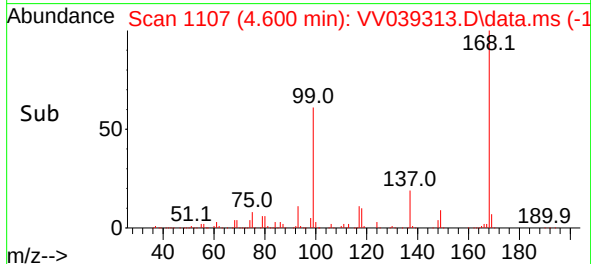


#38
Carbon Tetrachloride
Concen: 4.994 ug/l
RT: 4.600 min Scan# 1149
Delta R.T. -0.135 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

Instrument :
MSVOA_V
ClientSampleId :

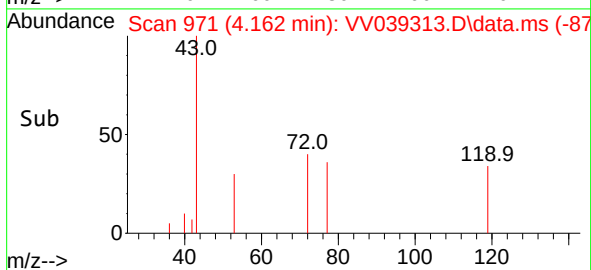
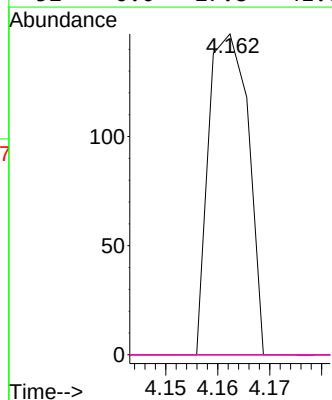
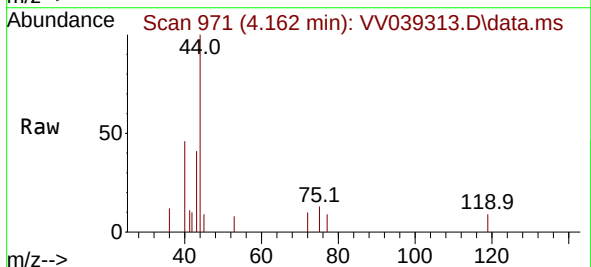


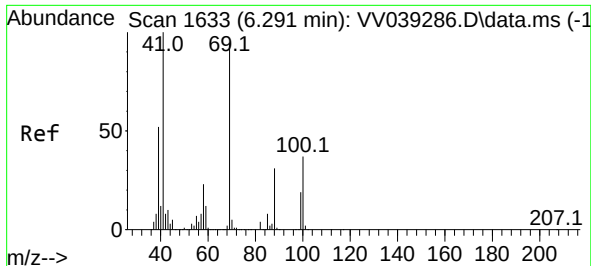
Tgt Ion:117 Resp: 67862
Ion Ratio Lower Upper
117 100
119 6.2 75.9 113.9#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 1.705 ug/l
RT: 4.162 min Scan# 971
Delta R.T. 0.000 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

Tgt Ion: 41 Resp: 78
Ion Ratio Lower Upper
41 100
39 0.0 40.9 61.3#
67 0.0 73.1 109.7#
52 0.0 27.8 41.6#





#49

1,4-Dioxane

Concen: 0.395 ug/l

RT: 6.272 min Scan# 1

Delta R.T. -0.019 min

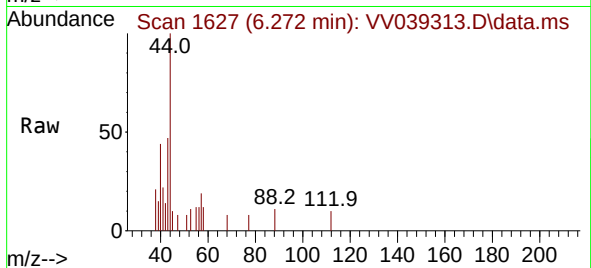
Lab File: VV039313.D

Acq: 04 Nov 2025 14:34

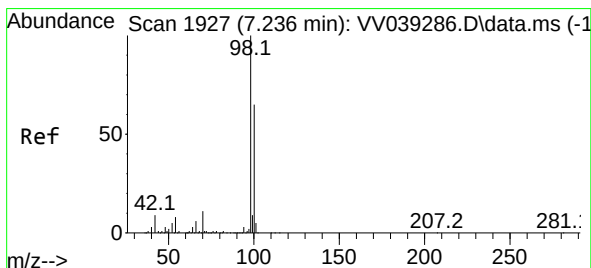
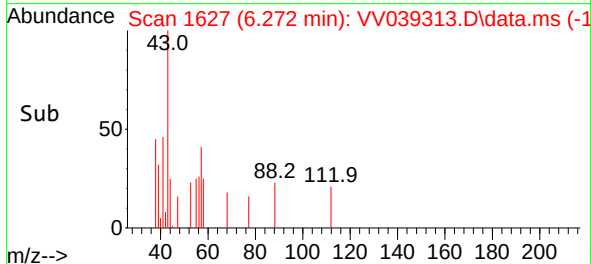
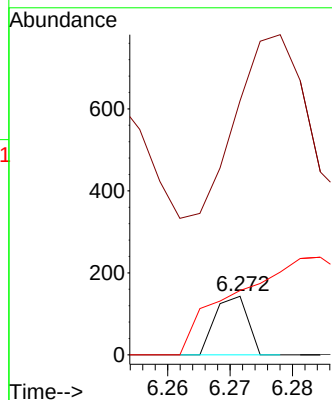
Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:	88	Resp:	52
Ion	Ratio	Lower	Upper
88	100		
43	1421.2	24.1	36.1#
58	588.5	57.6	86.4#



#50

Toluene-d8

Concen: 53.838 ug/l

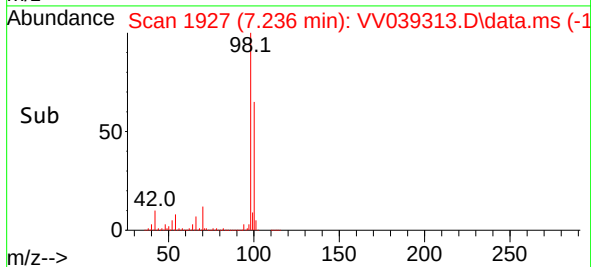
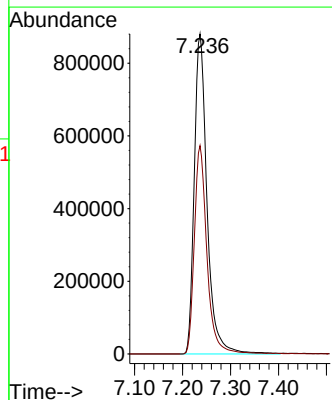
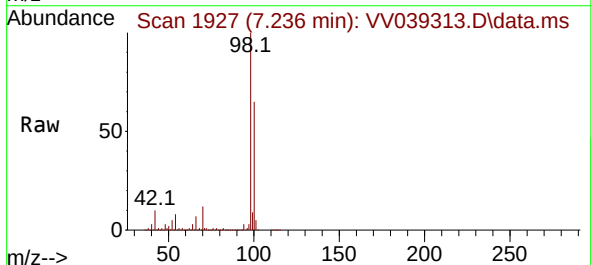
RT: 7.236 min Scan# 1927

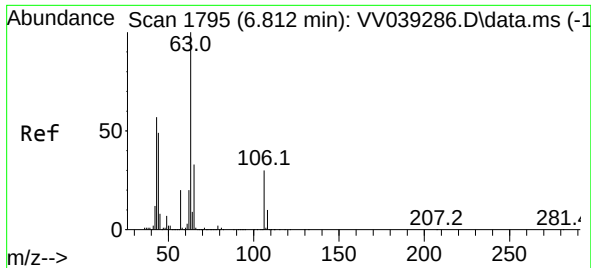
Delta R.T. 0.000 min

Lab File: VV039313.D

Acq: 04 Nov 2025 14:34

Tgt Ion:	98	Resp:	1626339
Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.8	79.2

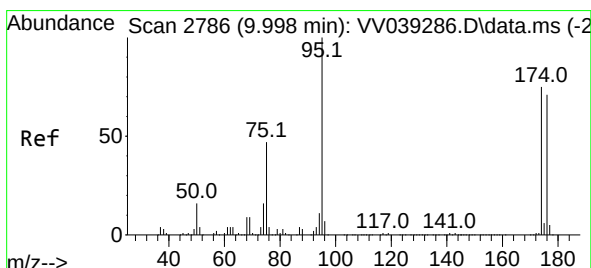
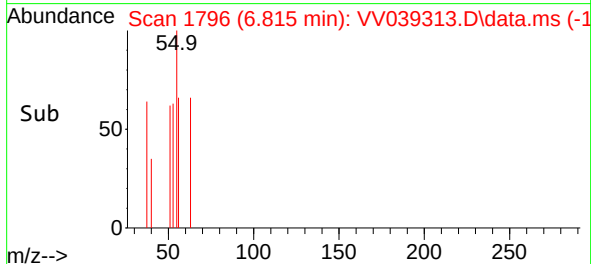
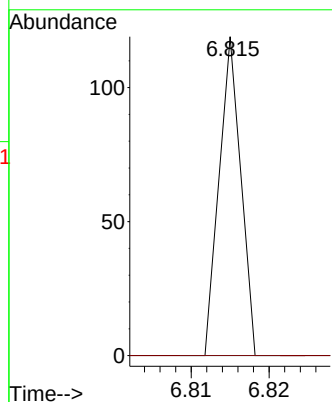
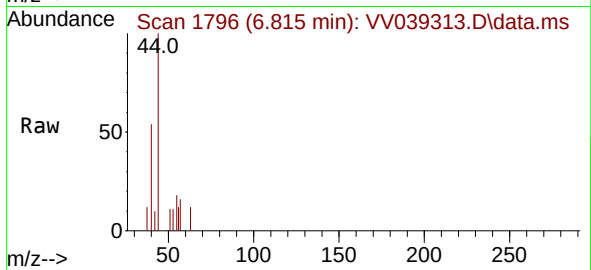




#58
2-Chloroethyl Vinyl ether
Concen: 8.471 ug/l
RT: 6.815 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

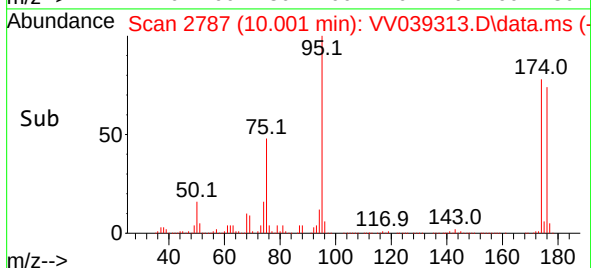
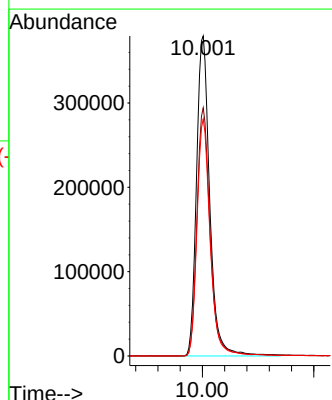
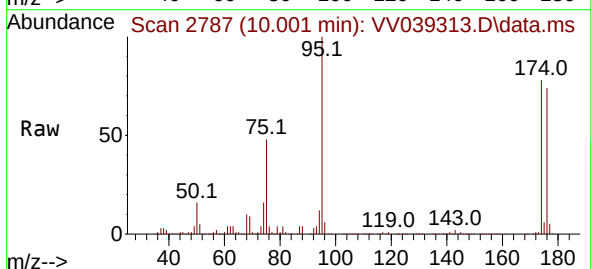
Instrument :
MSVOA_V
ClientSampleId :

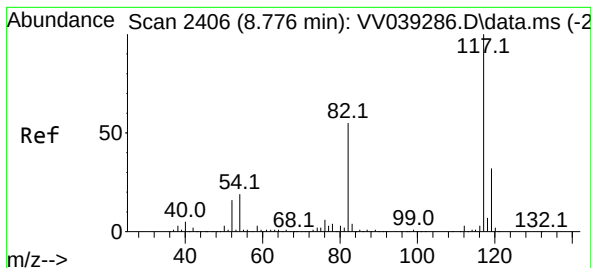
Tgt Ion: 63 Resp: 23
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#



#62
4-Bromofluorobenzene
Concen: 58.292 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

Tgt Ion: 95 Resp: 627116
Ion Ratio Lower Upper
95 100
174 77.2 0.0 153.6
176 72.9 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.773 min Scan# 2406

Delta R.T. -0.003 min

Lab File: VV039313.D

Acq: 04 Nov 2025 14:34

Instrument :

MSVOA_V

ClientSampleId :

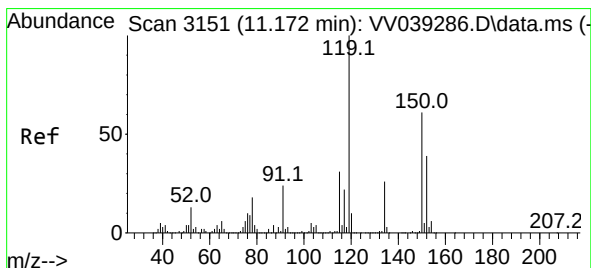
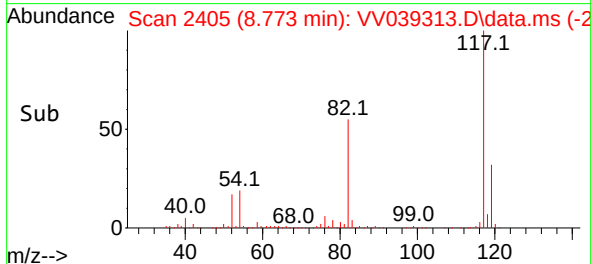
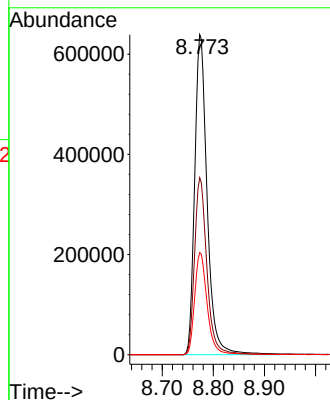
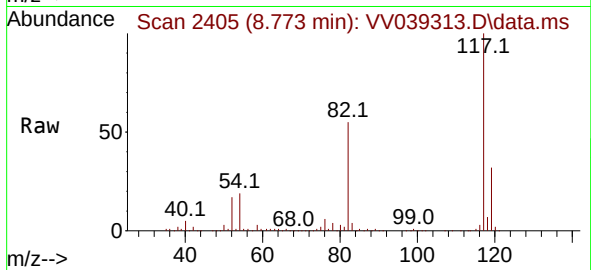
Tgt Ion:117 Resp: 1080628

Ion Ratio Lower Upper

117 100

82 55.3 43.8 65.8

119 31.9 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. 0.000 min

Lab File: VV039313.D

Acq: 04 Nov 2025 14:34

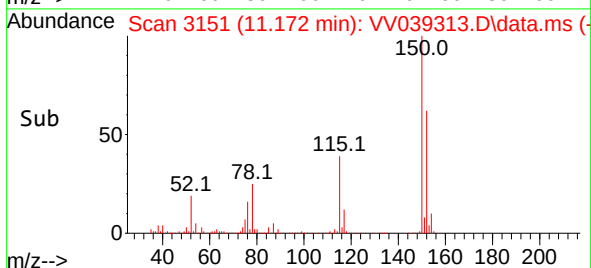
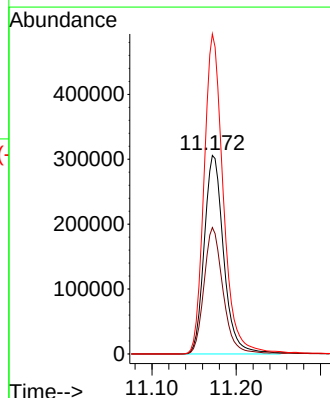
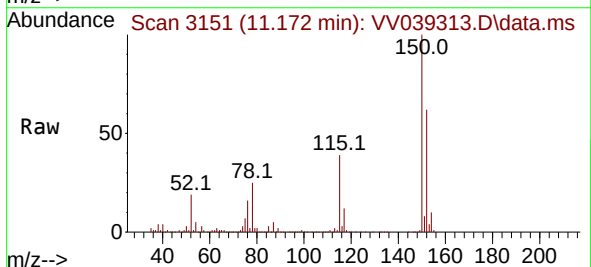
Tgt Ion:152 Resp: 492663

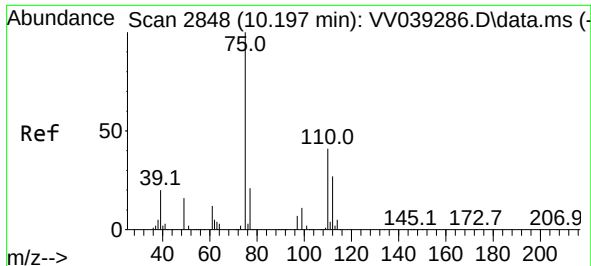
Ion Ratio Lower Upper

152 100

115 62.0 42.3 126.8

150 159.6 0.0 348.0

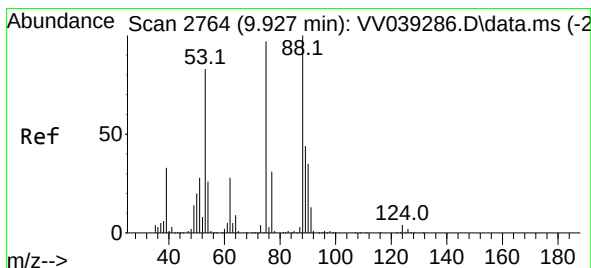
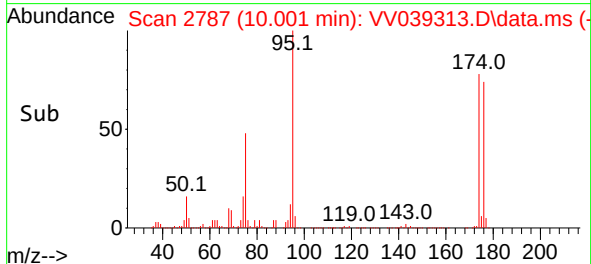
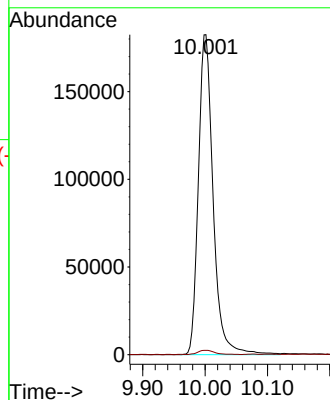
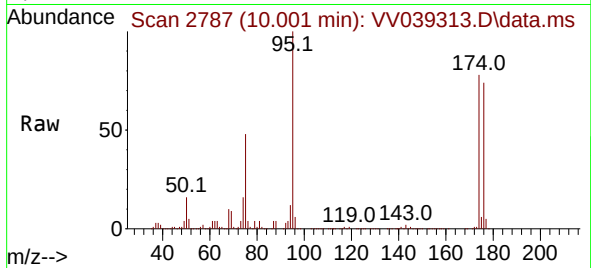




#76
1,2,3-Trichloropropane
Concen: 30.500 ug/l
RT: 10.001 min Scan# 21
Delta R.T. -0.196 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 299910
Ion Ratio Lower Upper
75 100
77 1.5 12.2 36.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 77.028 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039313.D
Acq: 04 Nov 2025 14:34

Tgt Ion: 75 Resp: 299910
Ion Ratio Lower Upper
75 100
53 0.4 69.9 104.9#
89 0.0 37.4 56.0#

