

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051625\
 Data File : VD080376.D
 Acq On : 16 May 2025 17:18
 Operator : RP/MD
 Sample : Q2014-01
 Misc : 4.54G/5ml/MSVOA_D/SOIL/B
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0134

Quant Time: May 17 01:22:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D050625S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 07 08:57:11 2025
 Response via : Initial Calibration

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

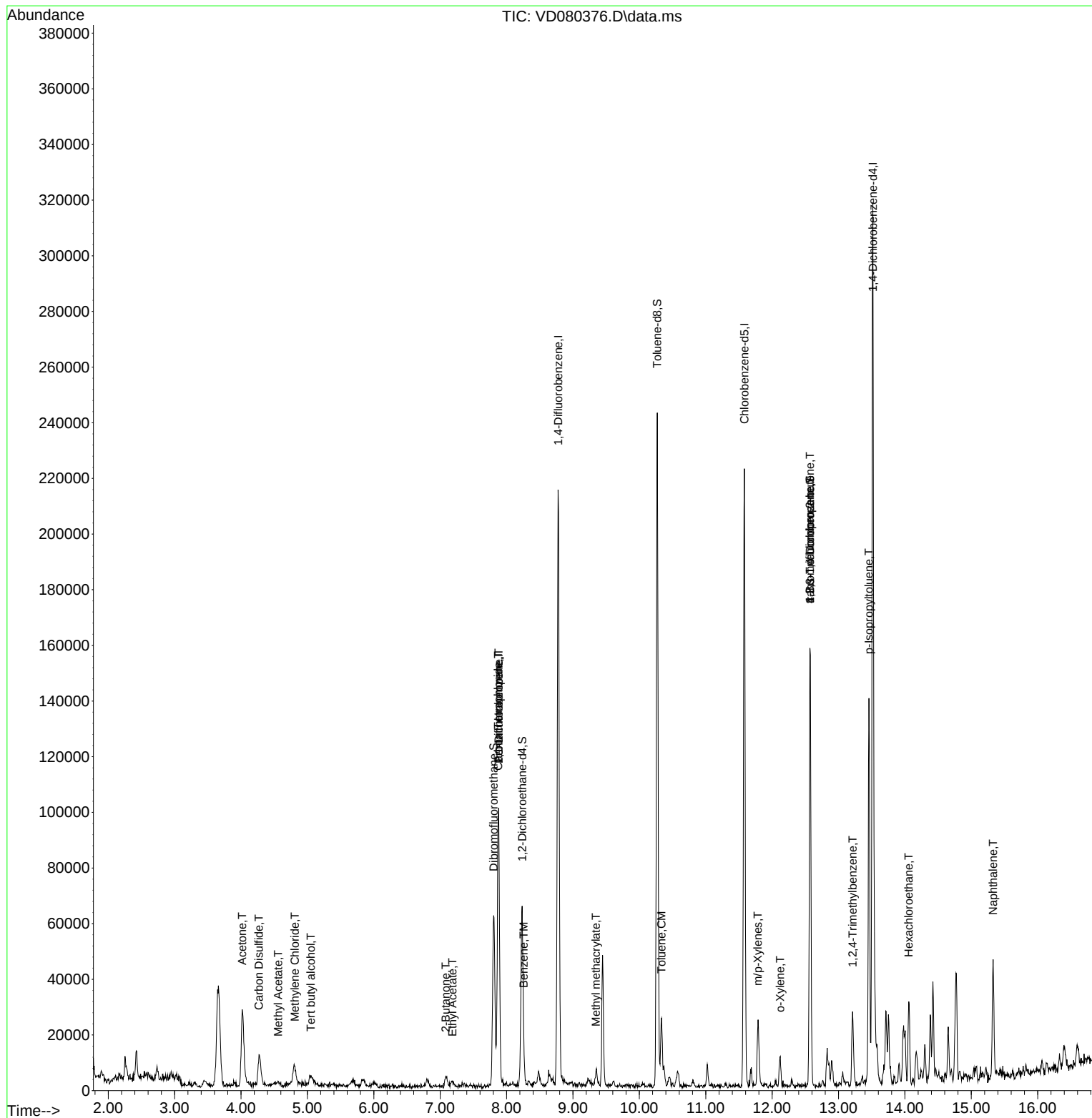
Internal Standards						
1) Pentafluorobenzene	7.882	168	74985	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.776	114	183105	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.582	117	121930	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.517	152	83828	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.235	65	49292	50.833	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	101.660%
35) Dibromofluoromethane	7.805	113	44607	36.348	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	72.700%
50) Toluene-d8	10.270	98	163592	33.832	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	67.660%
62) 4-Bromofluorobenzene	12.570	95	49046	31.601	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	63.200%
Target Compounds						
					Qvalue	
3) Chloromethane	2.159	50	324	Below Cal	#	39
11) Tert butyl alcohol	5.053	59	5313	90.294	ug/l #	82
16) Acetone	4.017	43	48760	330.057	ug/l	97
17) Carbon Disulfide	4.270	76	18565	5.888	ug/l	95
18) Methyl Acetate	4.559	43	1361	2.169	ug/l	96
20) Methylene Chloride	4.811	84	5371	1.472	ug/l #	84
25) 2-Butanone	7.082	43	6031	22.605	ug/l #	81
36) 1,1-Dichloropropene	7.882	75	6398	3.488	ug/l #	48
37) Ethyl Acetate	7.182	43	3129	3.262	ug/l #	80
38) Carbon Tetrachloride	7.876	117	7608	3.977	ug/l #	18
40) Benzene	8.258	78	6269	1.091	ug/l	98
48) Methyl methacrylate	9.347	41	1694	2.050	ug/l #	31
52) Toluene	10.335	92	8890	2.568	ug/l	85
68) m/p-Xylenes	11.782	106	7113	3.982	ug/l	89
69) o-Xylene	12.123	106	2850	1.746	ug/l	96
76) 1,2,3-Trichloropropane	12.570	75	25259	31.221	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.570	75	25259	59.262	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.211	105	13817	2.912	ug/l	95
86) p-Isopropyltoluene	13.458	119	71185	14.191	ug/l	99
90) Hexachloroethane	14.058	117	2286	2.060	ug/l #	12
95) Naphthalene	15.329	128	35655	11.816	ug/l	98

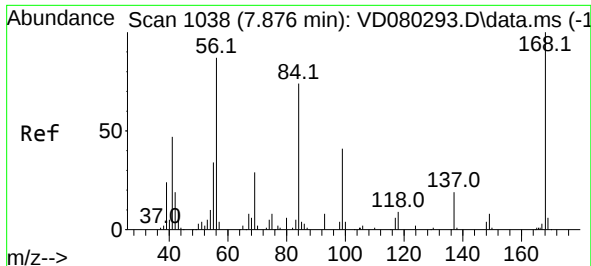
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
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Quant Title : SW846 8260
QLast Update : Wed May 07 08:57:11 2025
Response via : Initial Calibration

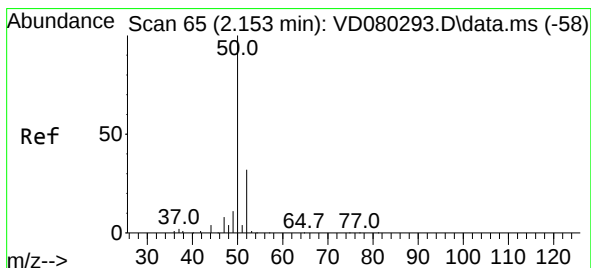
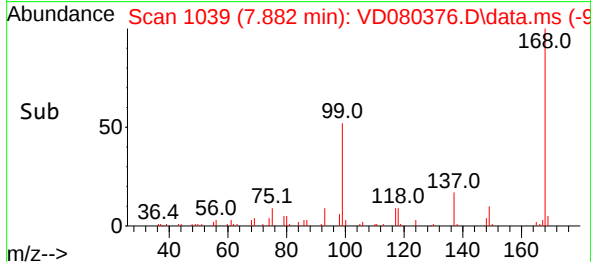
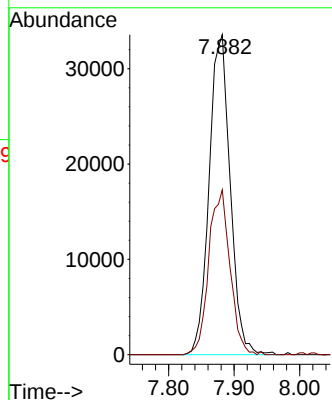
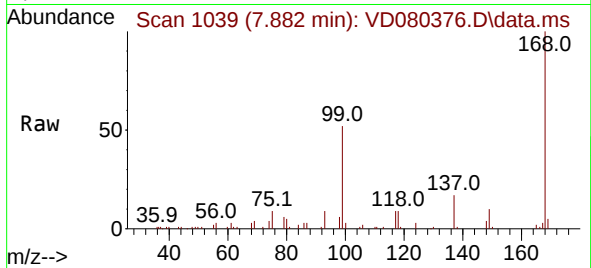




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.882 min Scan# 10
Delta R.T. 0.007 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

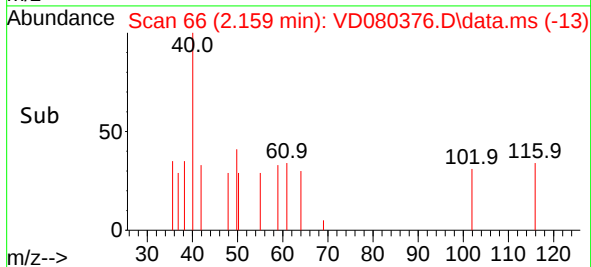
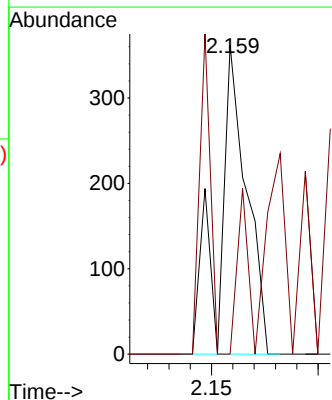
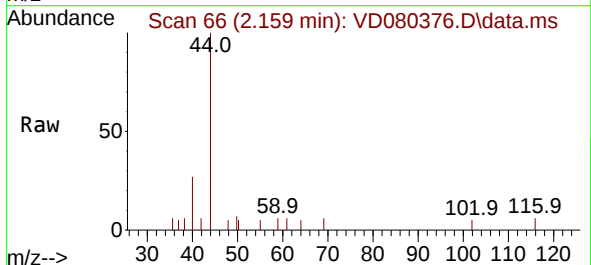
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

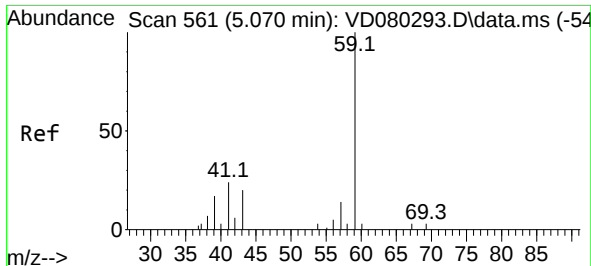
Tgt Ion:168 Resp: 74985
Ion Ratio Lower Upper
168 100
99 51.5 46.0 69.0



#3
Chloromethane
Concen: Below Cal
RT: 2.159 min Scan# 66
Delta R.T. 0.013 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

Tgt Ion: 50 Resp: 324
Ion Ratio Lower Upper
50 100
52 0.0 28.8 43.2#

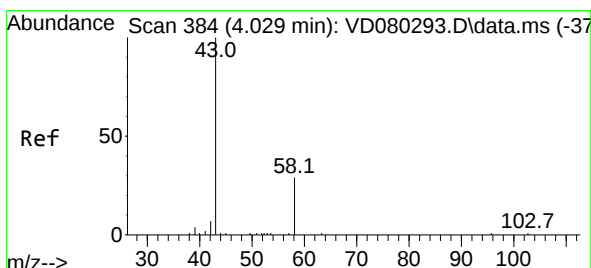
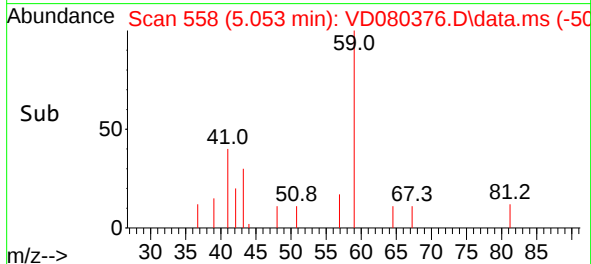
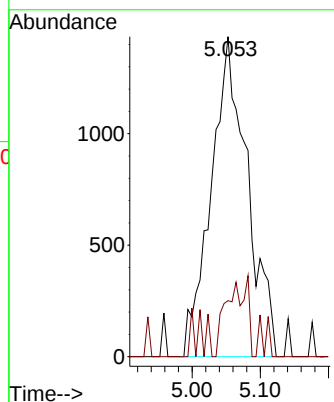
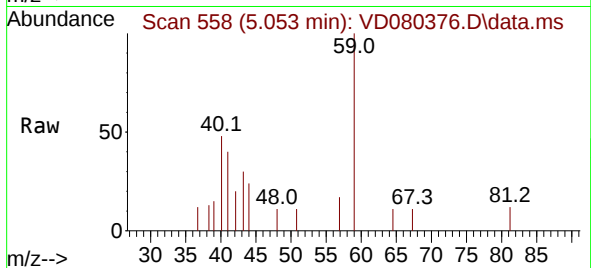




#11
Tert butyl alcohol
Concen: 90.294 ug/l
RT: 5.053 min Scan# 51
Delta R.T. -0.005 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

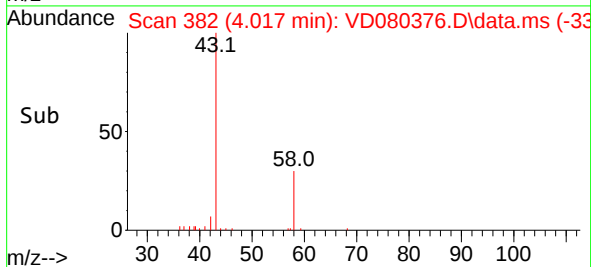
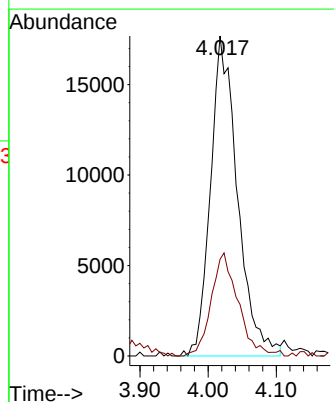
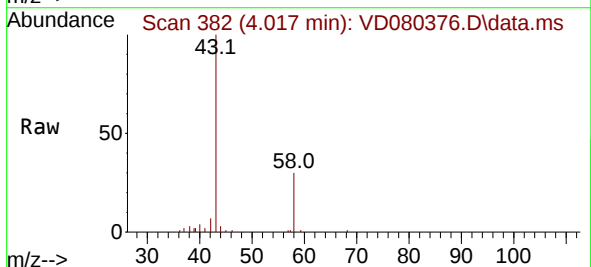
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

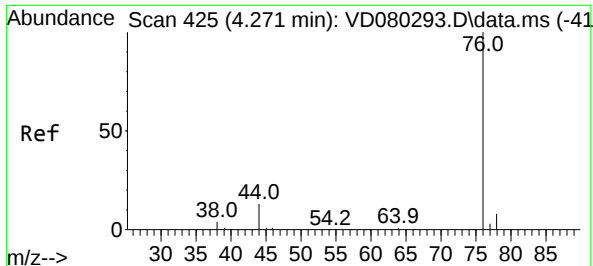
Tgt Ion: 59 Resp: 5313
Ion Ratio Lower Upper
59 100
57 0.0 4.8 7.2#



#16
Acetone
Concen: 330.057 ug/l
RT: 4.017 min Scan# 382
Delta R.T. -0.006 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

Tgt Ion: 43 Resp: 48760
Ion Ratio Lower Upper
43 100
58 30.2 25.4 38.2

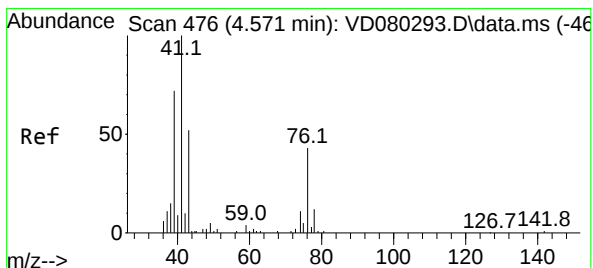
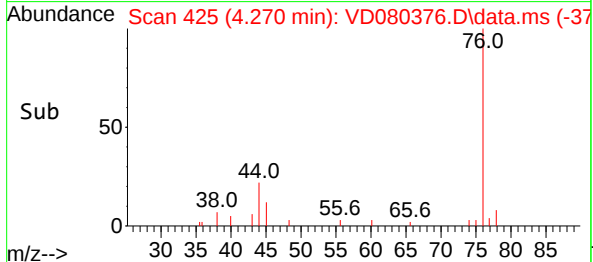
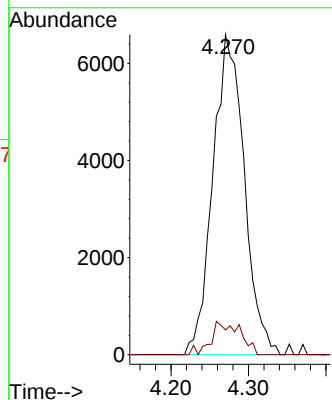
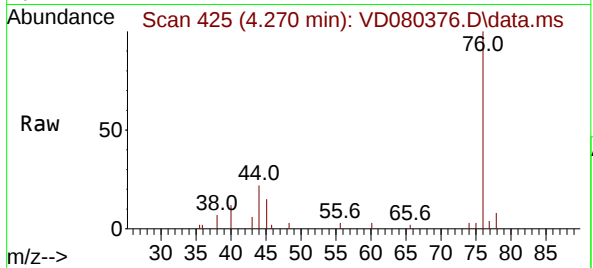




#17
Carbon Disulfide
Concen: 5.888 ug/l
RT: 4.270 min Scan# 41
Delta R.T. 0.000 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

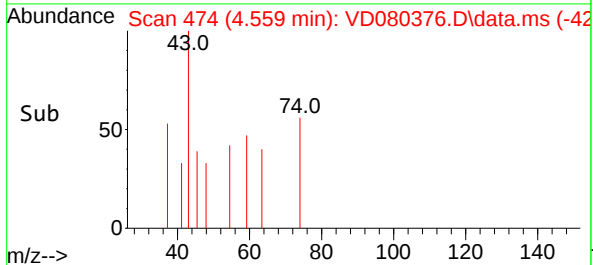
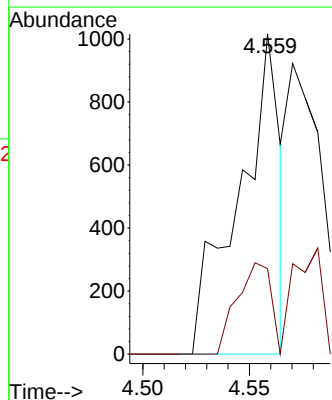
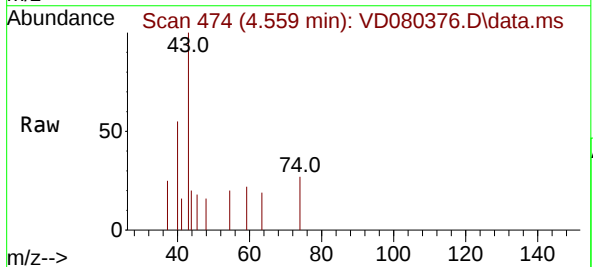
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

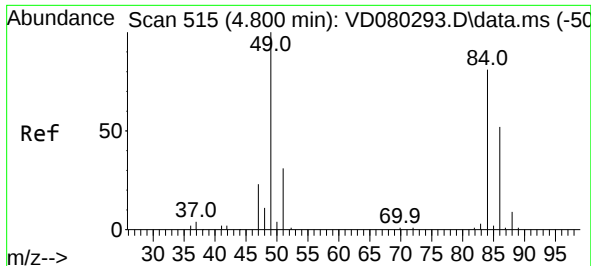
Tgt Ion: 76 Resp: 18565
Ion Ratio Lower Upper
76 100
78 7.7 7.5 11.3



#18
Methyl Acetate
Concen: 2.169 ug/l
RT: 4.559 min Scan# 474
Delta R.T. -0.005 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

Tgt Ion: 43 Resp: 1361
Ion Ratio Lower Upper
43 100
74 23.5 20.5 30.7

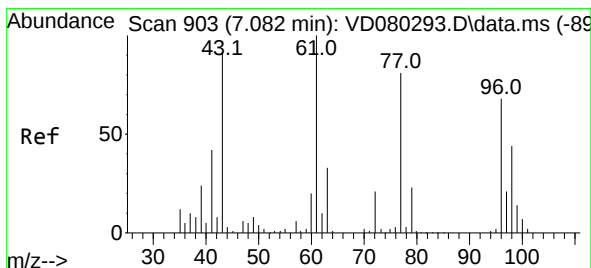
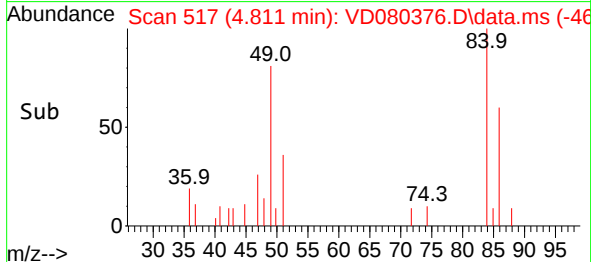
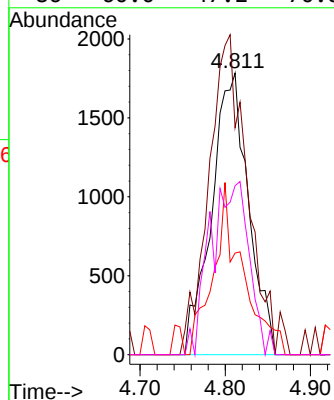
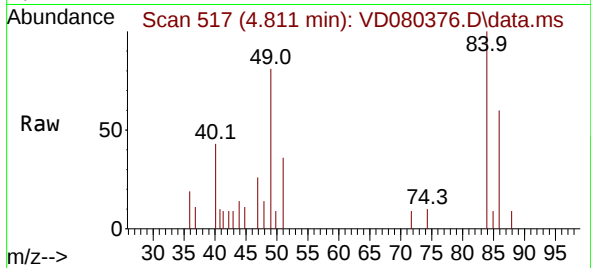




#20
Methylene Chloride
Concen: 1.472 ug/l
RT: 4.811 min Scan# 517
Delta R.T. 0.006 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

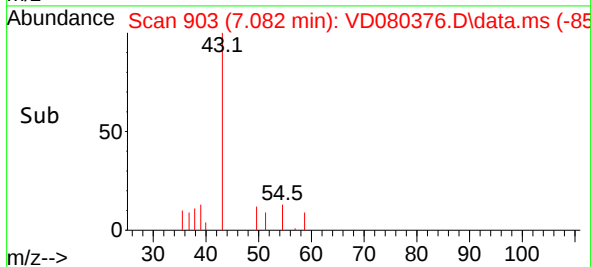
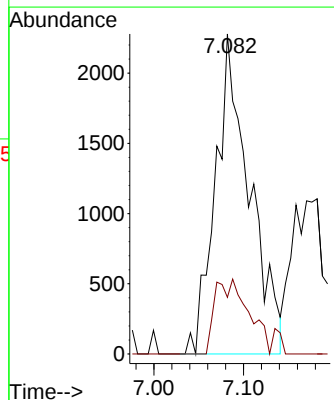
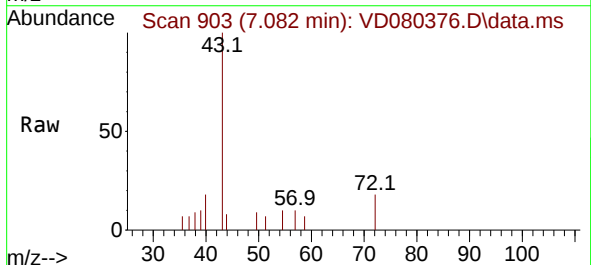
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

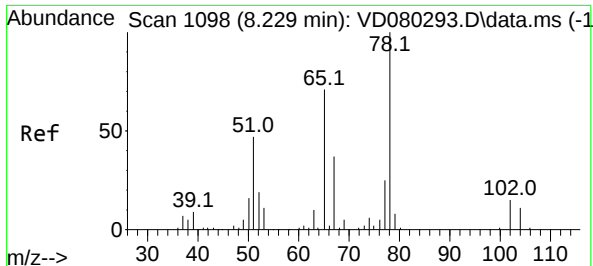
Tgt Ion: 84	Resp: 5371
Ion Ratio	Lower Upper
84 100	
49 80.6	86.5 129.7#
51 27.6	26.9 40.3
86 60.0	47.2 70.8



#25
2-Butanone
Concen: 22.605 ug/l
RT: 7.082 min Scan# 903
Delta R.T. -0.005 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

Tgt Ion: 43	Resp: 6031
Ion Ratio	Lower Upper
43 100	
72 17.7	22.3 33.5#

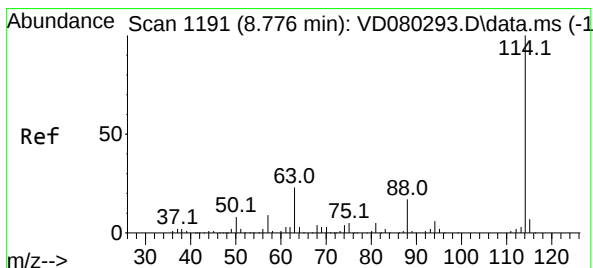
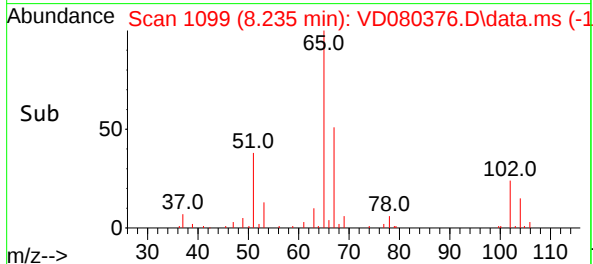
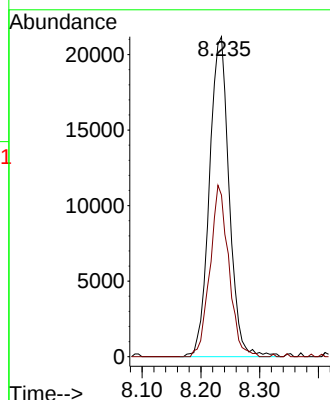
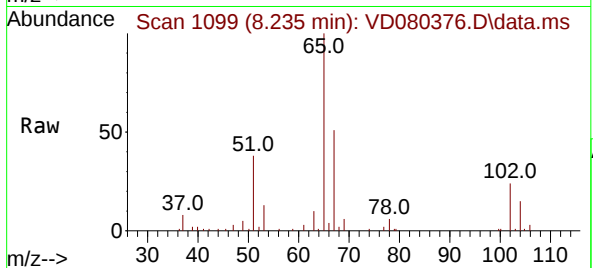




#33
 1,2-Dichloroethane-d4
 Concen: 50.833 ug/l
 RT: 8.235 min Scan# 1109
 Delta R.T. 0.007 min
 Lab File: VD080376.D
 Acq: 16 May 2025 17:18

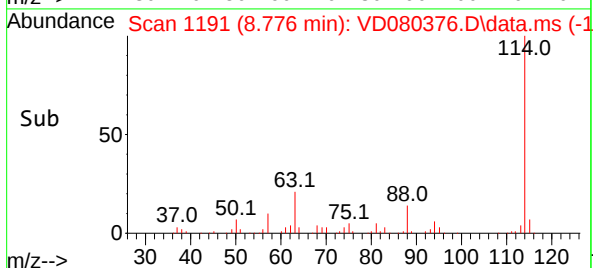
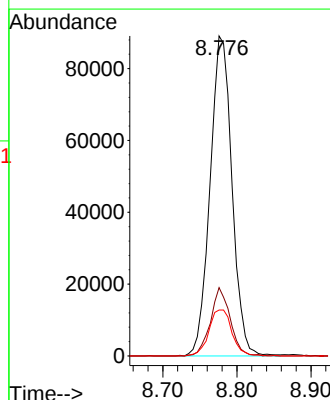
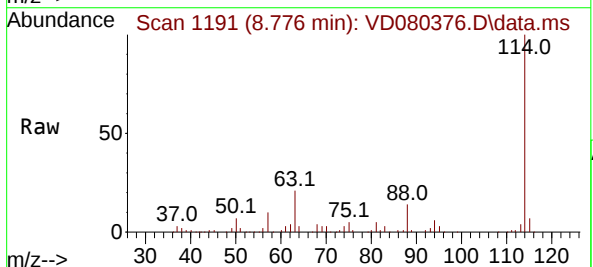
Instrument :
 MSVOA_D
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 MOO-25-0134

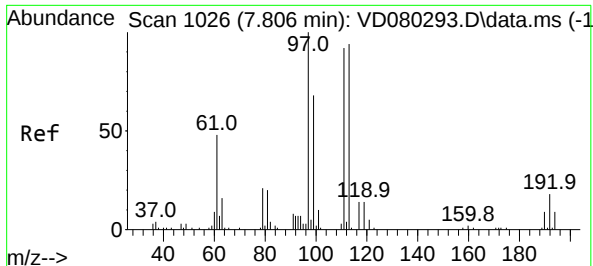
Tgt Ion: 65 Resp: 49292
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.776 min Scan# 1191
 Delta R.T. 0.001 min
 Lab File: VD080376.D
 Acq: 16 May 2025 17:18

Tgt Ion: 114 Resp: 183105
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 38.8
 88 14.4 0.0 30.6





#35

Dibromofluoromethane

Concen: 36.348 ug/l

RT: 7.805 min Scan# 1039

Delta R.T. 0.000 min

Lab File: VD080376.D

Acq: 16 May 2025 17:18

Instrument :

MSVOA_D

ClientSampleId :

MOO-25-0134

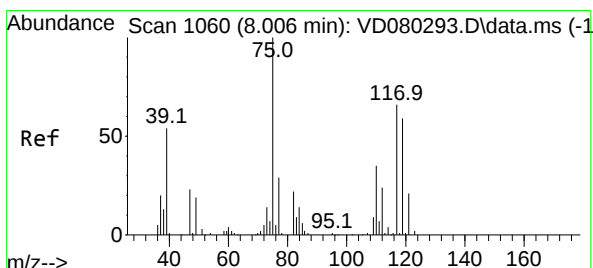
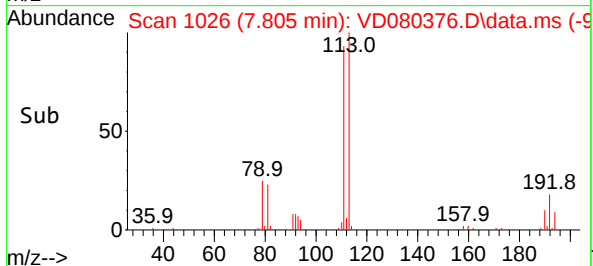
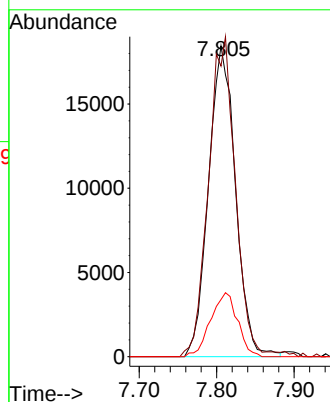
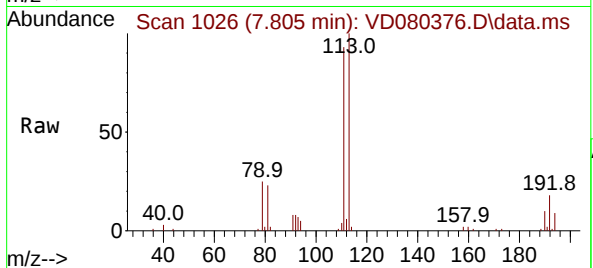
Tgt Ion:113 Resp: 44607

Ion Ratio Lower Upper

113 100

111 101.8 82.5 123.7

192 20.6 16.6 25.0



#36

1,1-Dichloropropene

Concen: 3.488 ug/l

RT: 7.882 min Scan# 1039

Delta R.T. -0.123 min

Lab File: VD080376.D

Acq: 16 May 2025 17:18

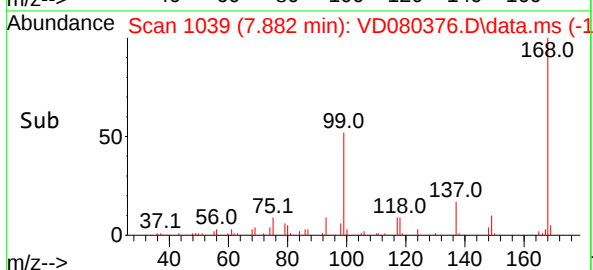
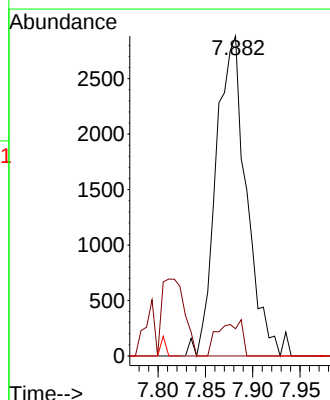
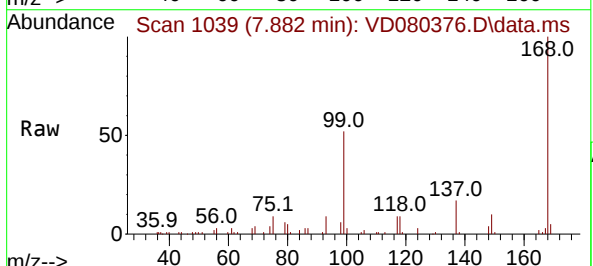
Tgt Ion: 75 Resp: 6398

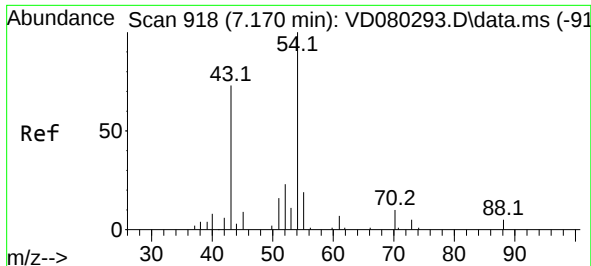
Ion Ratio Lower Upper

75 100

110 8.6 18.4 55.0#

77 0.0 25.6 38.4#

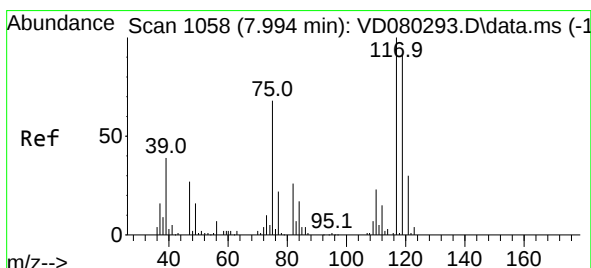
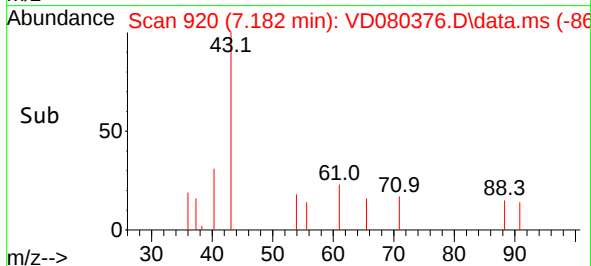
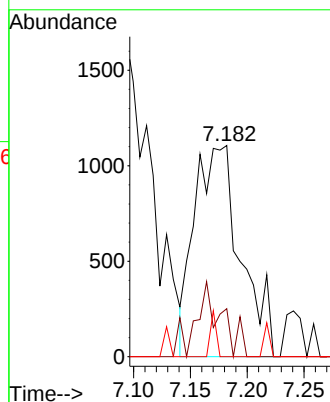
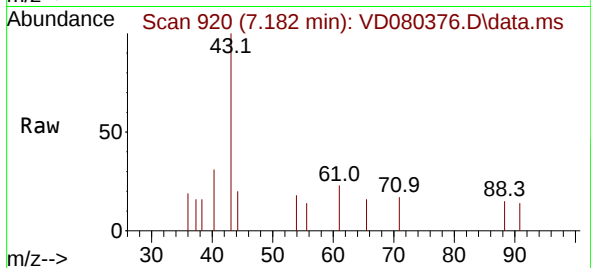




#37
Ethyl Acetate
Concen: 3.262 ug/l
RT: 7.182 min Scan# 918
Delta R.T. 0.013 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

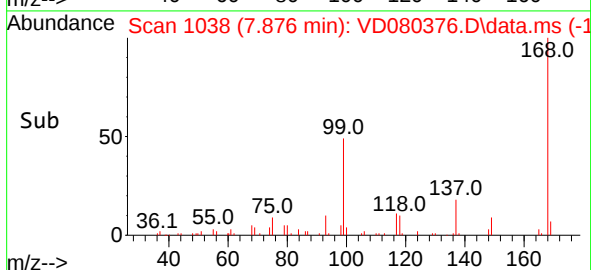
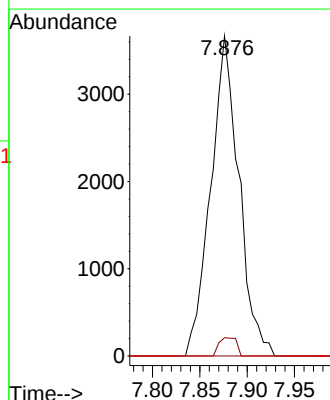
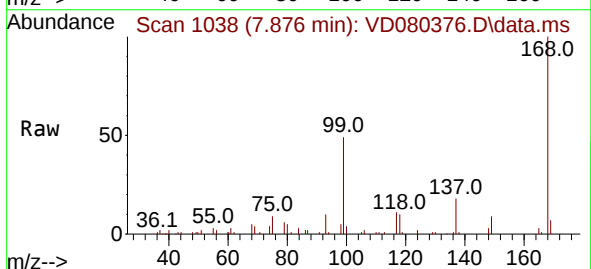
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

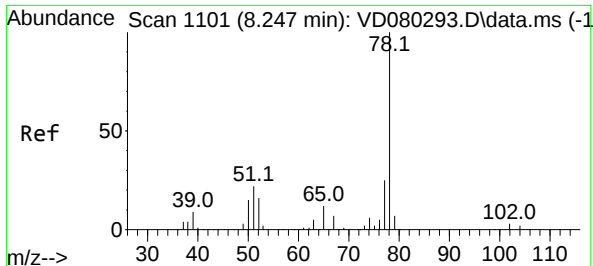
Tgt Ion: 43 Resp: 3129
Ion Ratio Lower Upper
43 100
61 20.5 11.0 16.4#
70 2.7 9.4 14.2#



#38
Carbon Tetrachloride
Concen: 3.977 ug/l
RT: 7.876 min Scan# 1038
Delta R.T. -0.111 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

Tgt Ion: 117 Resp: 7608
Ion Ratio Lower Upper
117 100
119 5.7 73.4 110.0#
121 0.0 24.5 36.7#

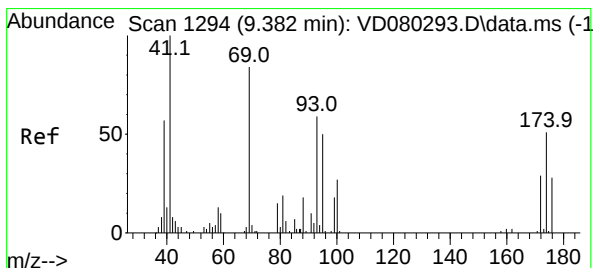
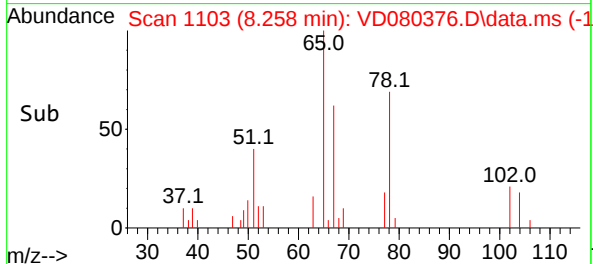
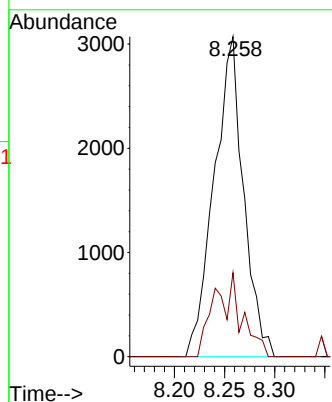
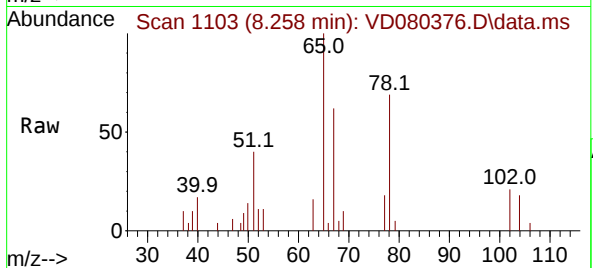




#40
Benzene
Concen: 1.091 ug/l
RT: 8.258 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

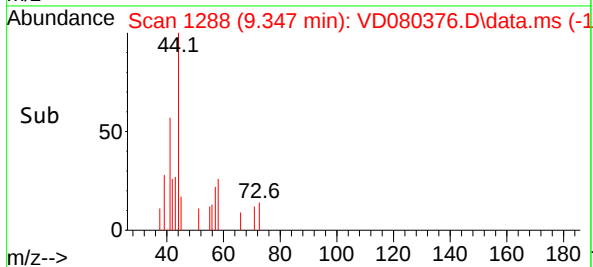
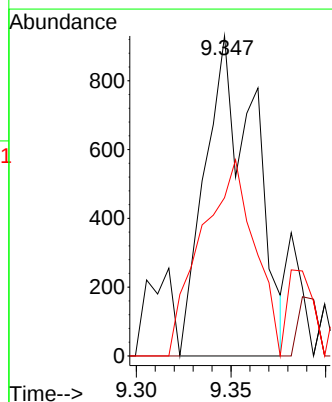
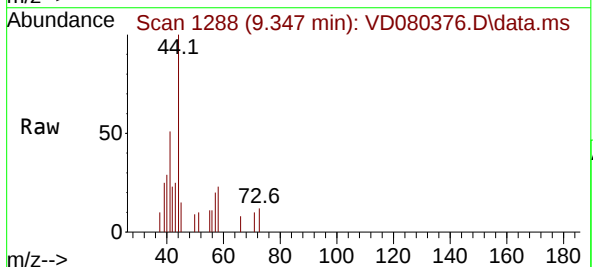
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

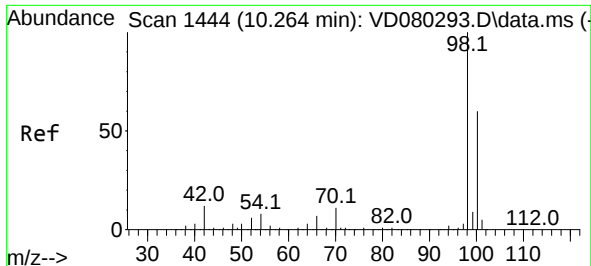
Tgt Ion: 78 Resp: 6269
Ion Ratio Lower Upper
78 100
77 26.3 20.2 30.4



#48
Methyl methacrylate
Concen: 2.050 ug/l
RT: 9.347 min Scan# 1288
Delta R.T. -0.034 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

Tgt Ion: 41 Resp: 1694
Ion Ratio Lower Upper
41 100
69 0.0 74.0 111.0#
39 65.7 41.9 62.9#

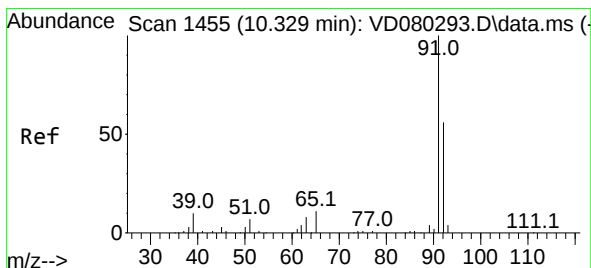
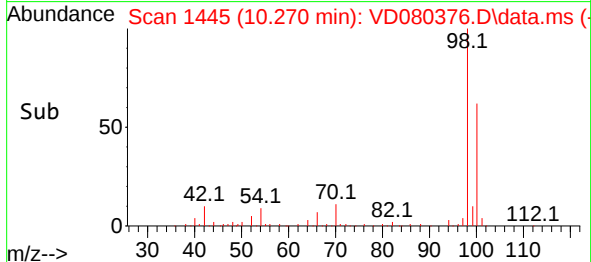
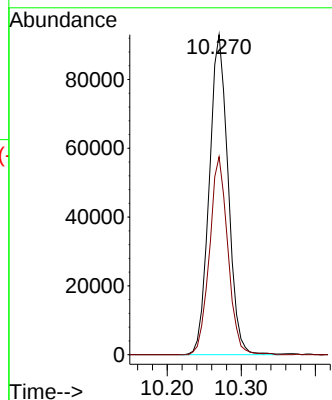
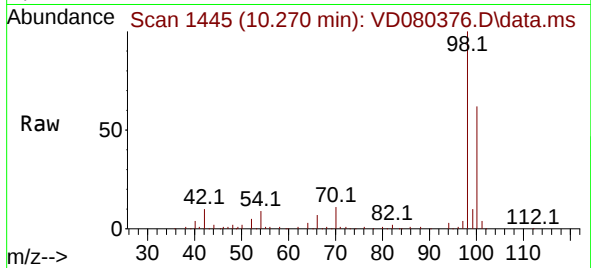




#50
Toluene-d8
Concen: 33.832 ug/l
RT: 10.270 min Scan# 1444
Delta R.T. 0.001 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

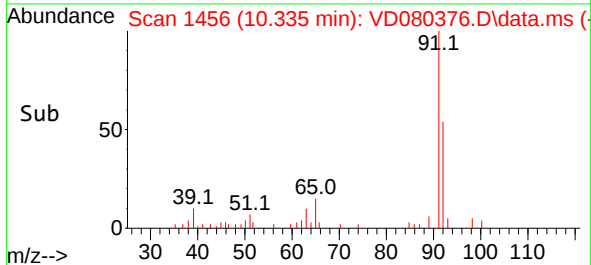
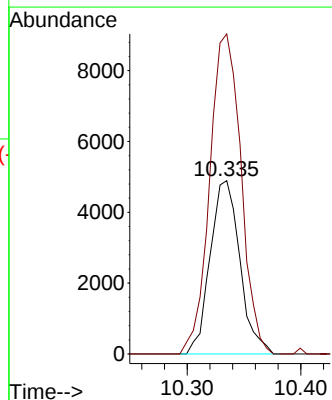
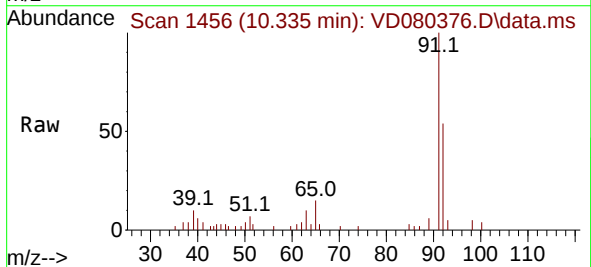
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

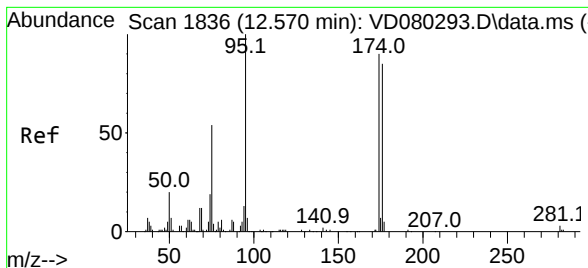
Tgt Ion: 98 Resp: 163592
Ion Ratio Lower Upper
98 100
100 60.5 50.2 75.4



#52
Toluene
Concen: 2.568 ug/l
RT: 10.335 min Scan# 1456
Delta R.T. 0.001 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

Tgt Ion: 92 Resp: 8890
Ion Ratio Lower Upper
92 100
91 194.7 139.3 208.9

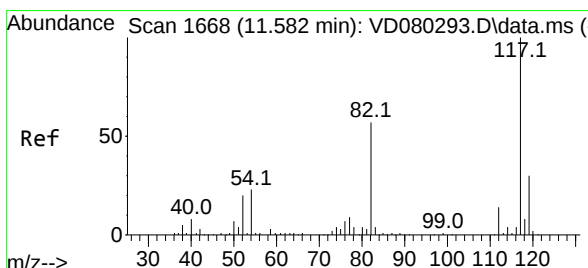
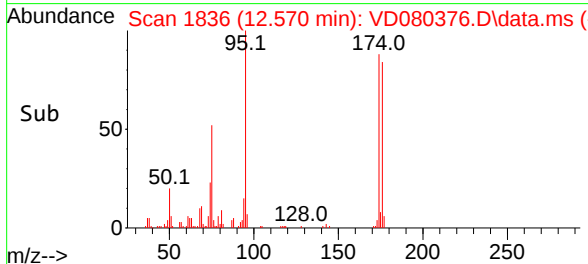
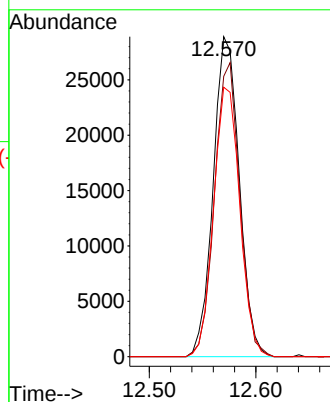
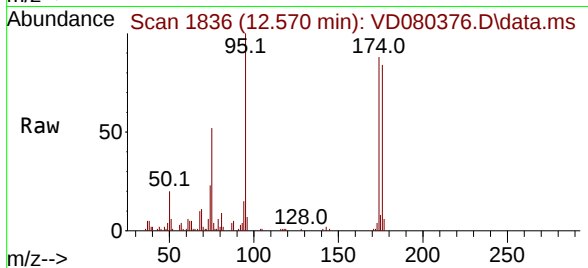




#62
4-Bromofluorobenzene
Concen: 31.601 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. 0.001 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

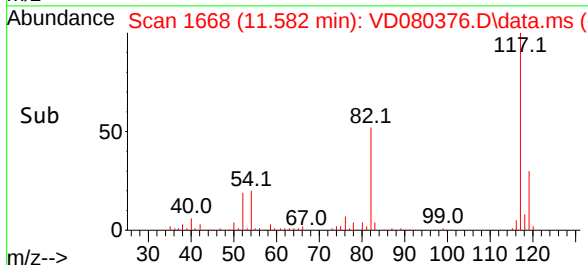
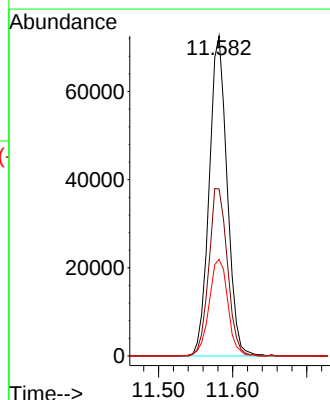
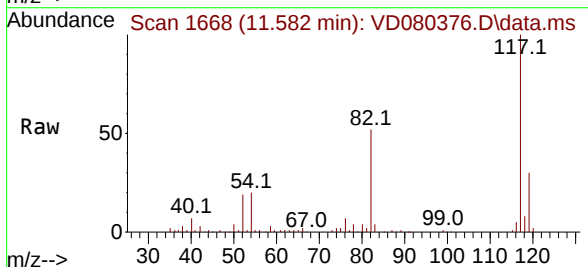
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

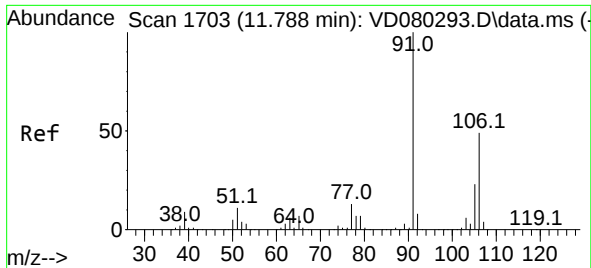
Tgt Ion:	95	Resp:	49046
Ion	Ratio	Lower	Upper
95	100		
174	89.1	0.0	173.4
176	84.9	0.0	166.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.582 min Scan# 1668
Delta R.T. 0.001 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

Tgt Ion:	117	Resp:	121930
Ion	Ratio	Lower	Upper
117	100		
82	52.2	45.8	68.6
119	30.2	26.2	39.2

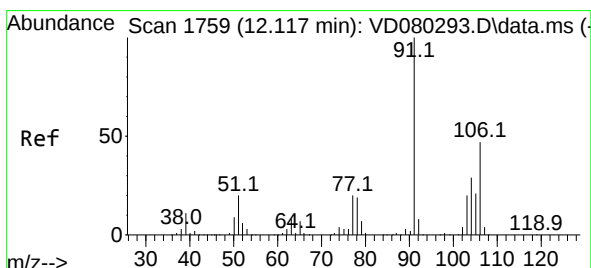
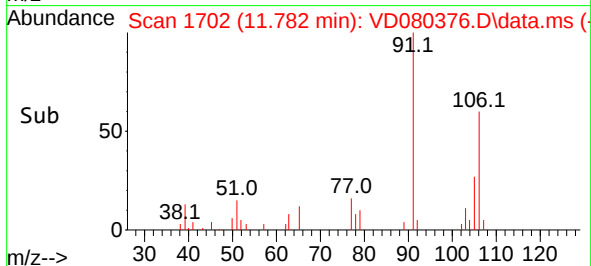
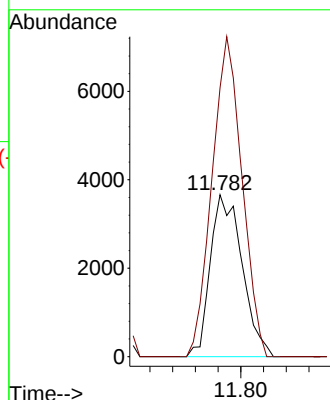
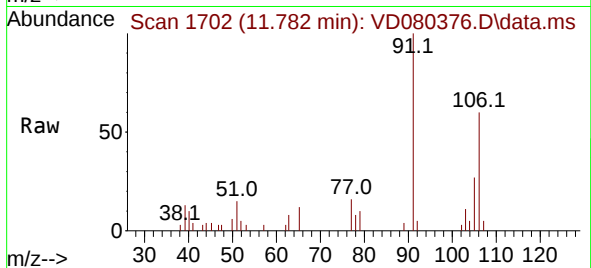




#68
m/p-Xylenes
Concen: 3.982 ug/l
RT: 11.782 min Scan# 1702
Delta R.T. -0.011 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

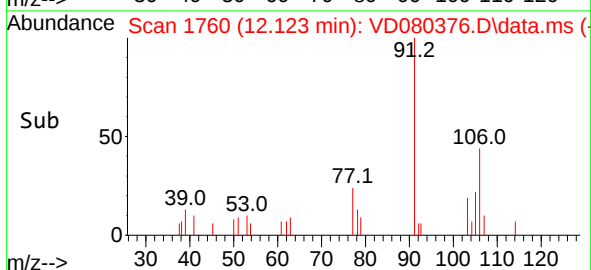
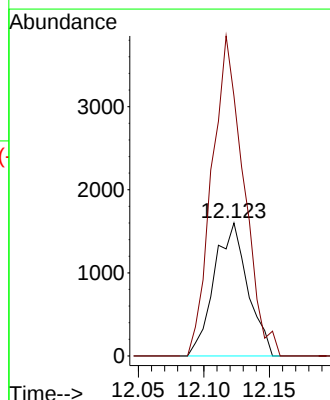
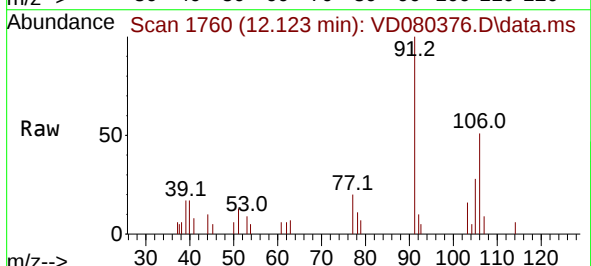
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

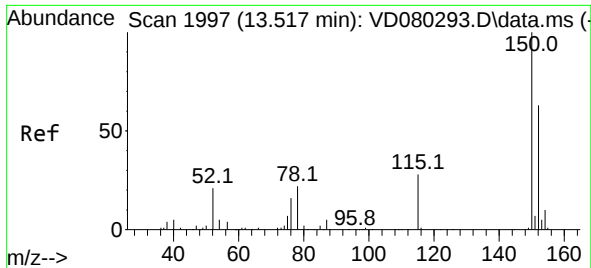
Tgt Ion:106 Resp: 7113
Ion Ratio Lower Upper
106 100
91 186.5 162.6 244.0



#69
o-Xylene
Concen: 1.746 ug/l
RT: 12.123 min Scan# 1760
Delta R.T. 0.007 min
Lab File: VD080376.D
Acq: 16 May 2025 17:18

Tgt Ion:106 Resp: 2850
Ion Ratio Lower Upper
106 100
91 227.9 110.5 331.5

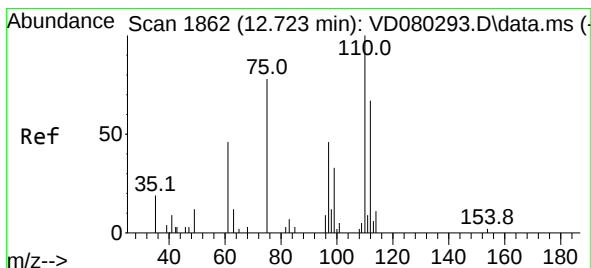
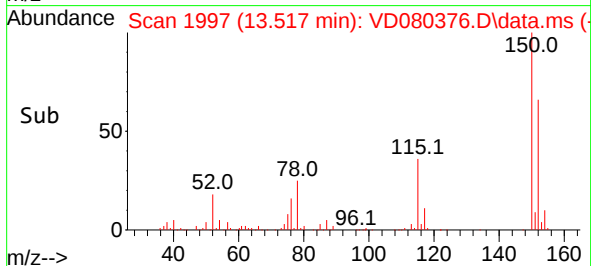
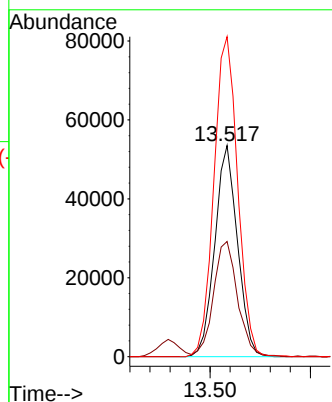
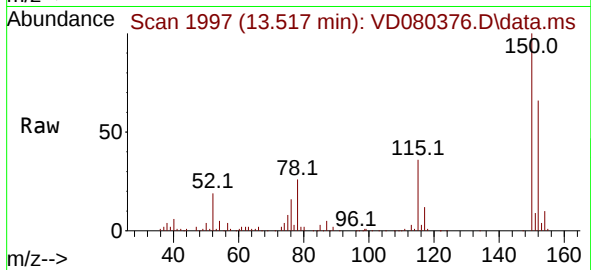




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.517 min Scan# 1997
 Delta R.T. 0.001 min
 Lab File: VD080376.D
 Acq: 16 May 2025 17:18

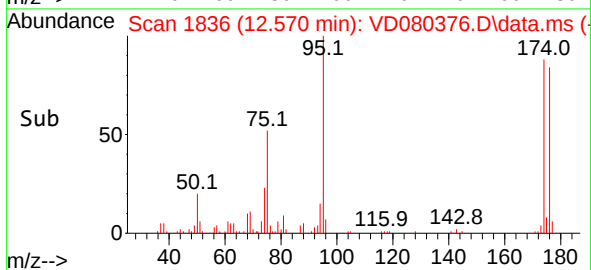
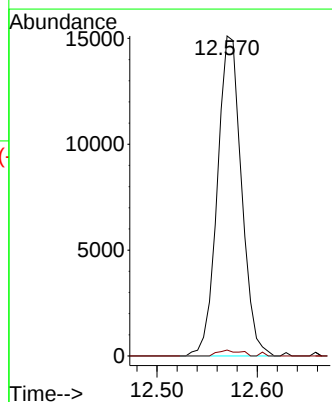
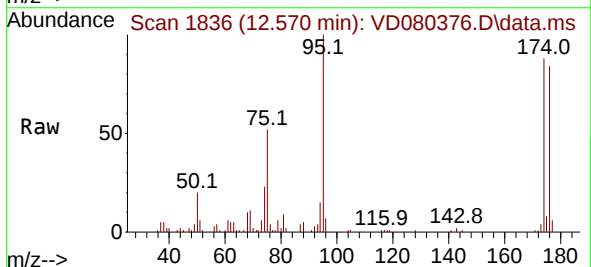
Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0134

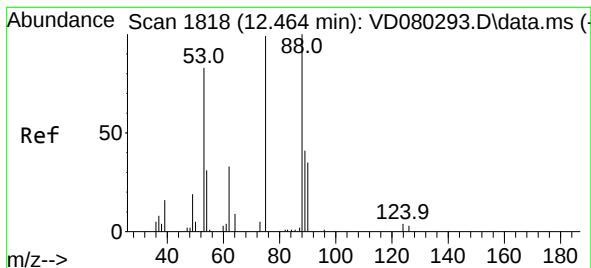
Tgt Ion:152 Resp: 83828
 Ion Ratio Lower Upper
 152 100
 115 58.1 28.9 86.8
 150 158.7 0.0 354.8



#76
 1,2,3-Trichloropropane
 Concen: 31.221 ug/l
 RT: 12.570 min Scan# 1836
 Delta R.T. -0.152 min
 Lab File: VD080376.D
 Acq: 16 May 2025 17:18

Tgt Ion: 75 Resp: 25259
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#

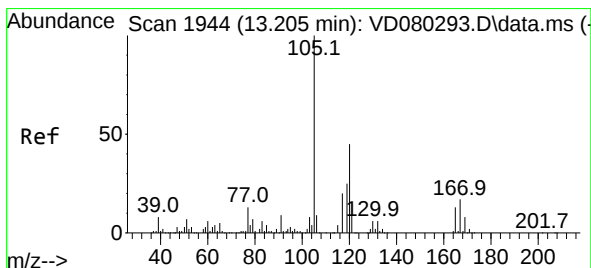
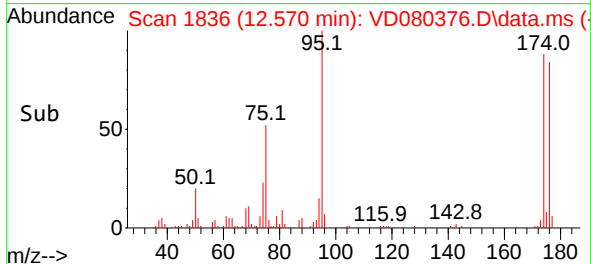
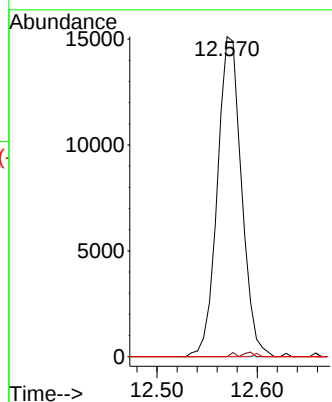
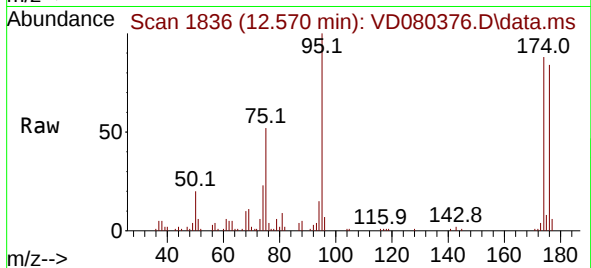




#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.262 ug/l
 RT: 12.570 min Scan# 1836
 Delta R.T. 0.101 min
 Lab File: VD080376.D
 Acq: 16 May 2025 17:18

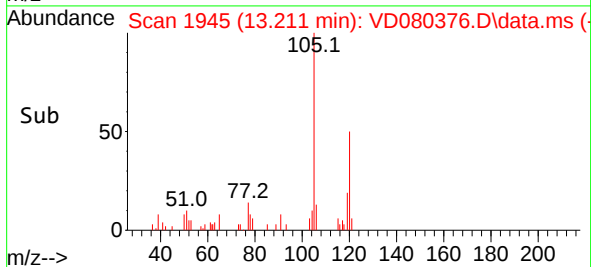
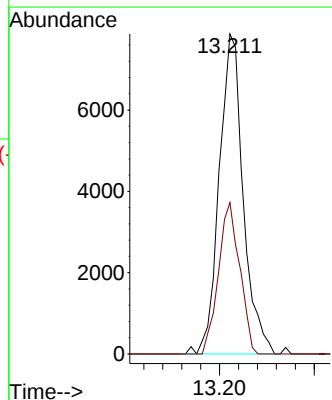
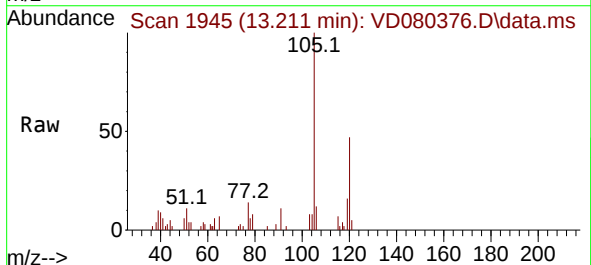
Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0134

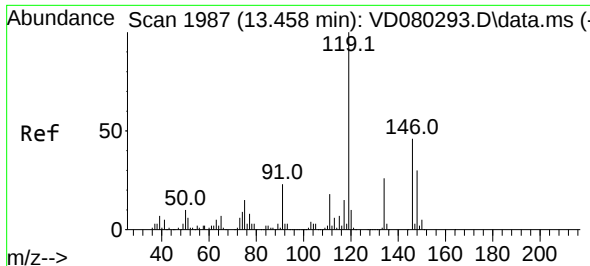
Tgt Ion: 75 Resp: 25259
 Ion Ratio Lower Upper
 75 100
 53 0.3 68.7 103.1#
 89 0.0 36.1 54.1#



#84
 1,2,4-Trimethylbenzene
 Concen: 2.912 ug/l
 RT: 13.211 min Scan# 1945
 Delta R.T. 0.001 min
 Lab File: VD080376.D
 Acq: 16 May 2025 17:18

Tgt Ion:105 Resp: 13817
 Ion Ratio Lower Upper
 105 100
 120 42.0 22.8 68.4

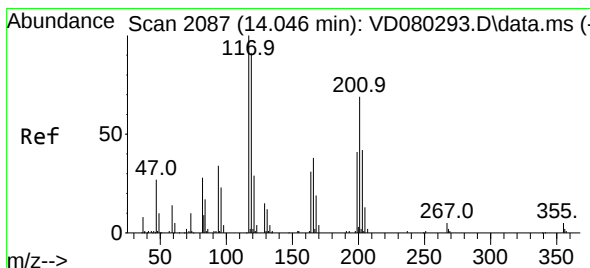
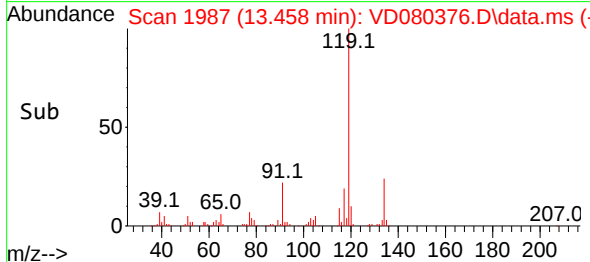
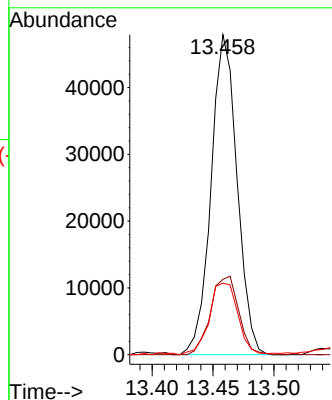
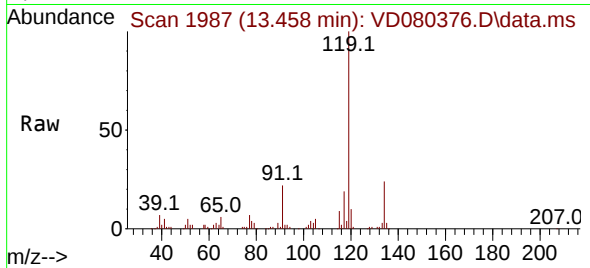




#86
 p-Isopropyltoluene
 Concen: 14.191 ug/l
 RT: 13.458 min Scan# 1987
 Delta R.T. 0.001 min
 Lab File: VD080376.D
 Acq: 16 May 2025 17:18

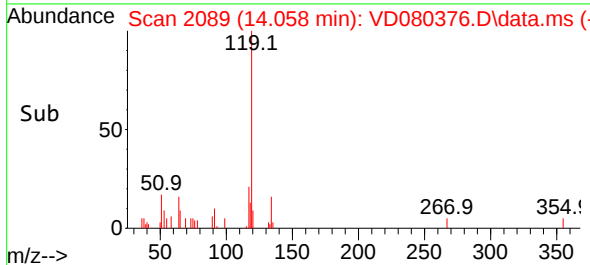
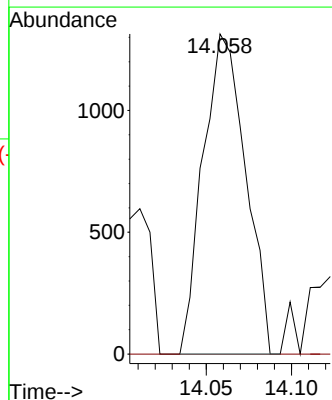
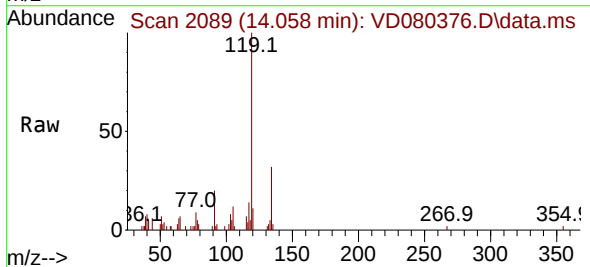
Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0134

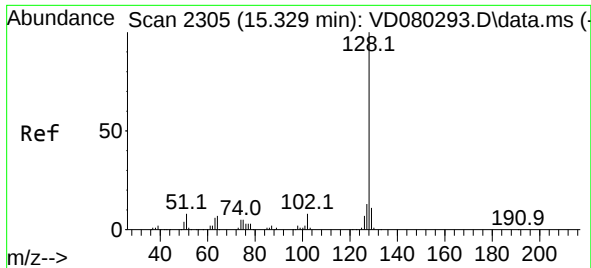
Tgt Ion:	119	Resp:	71185
Ion Ratio	Lower	Upper	
119	100		
134	26.4	13.1	39.1
91	24.6	12.2	36.4



#90
 Hexachloroethane
 Concen: 2.060 ug/l
 RT: 14.058 min Scan# 2089
 Delta R.T. 0.007 min
 Lab File: VD080376.D
 Acq: 16 May 2025 17:18

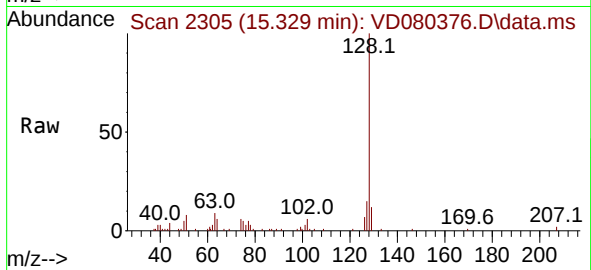
Tgt Ion:	117	Resp:	2286
Ion Ratio	Lower	Upper	
117	100		
201	0.0	37.5	112.5





#95
 Naphthalene
 Concen: 11.816 ug/l
 RT: 15.329 min Scan# 21
 Delta R.T. 0.001 min
 Lab File: VD080376.D
 Acq: 16 May 2025 17:18

Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0134



Tgt Ion:	128	Resp:	35655
Ion	Ratio	Lower	Upper
128	100		
127	15.2	11.8	17.8
129	12.2	8.3	12.5

