

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD022624\
 Data File : VD078551.D
 Acq On : 26 Feb 2024 13:58
 Operator : RP/MD
 Sample : P1588-02
 Misc : 5.01G/5ml/MSVOA_D/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 1839

Quant Time: Feb 27 03:27:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D021324S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 14 01:16:20 2024
 Response via : Initial Calibration

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

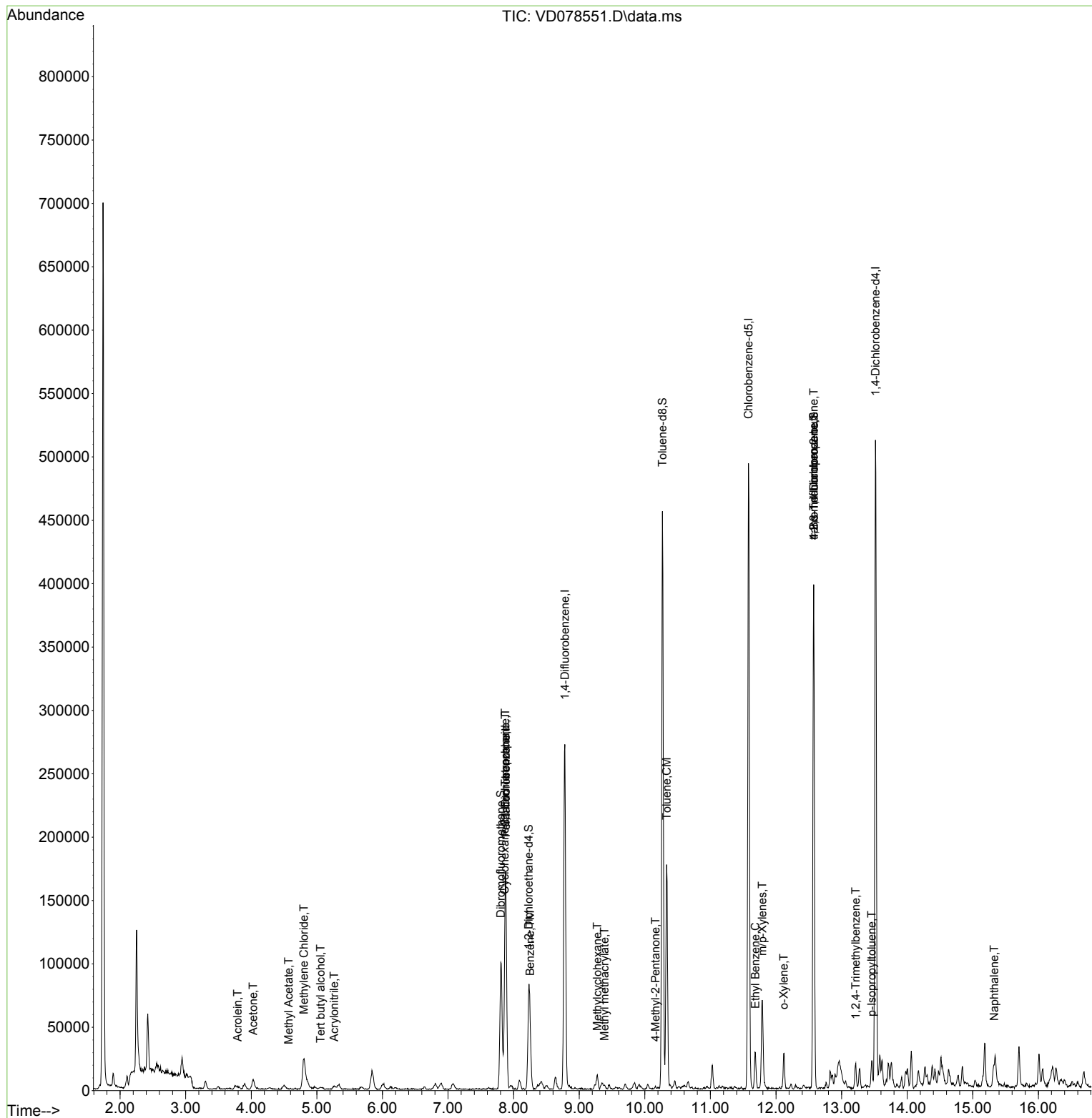
Internal Standards						
1) Pentafluorobenzene	7.881	168	127469	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	253009	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	296691	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	143029	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	52439	38.047	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	76.100%
35) Dibromofluoromethane	7.805	113	72331	45.005	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	90.020%
50) Toluene-d8	10.269	98	315832	49.126	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.260%
62) 4-Bromofluorobenzene	12.575	95	122352	65.398	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	130.800%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.058	59	1715	17.709	ug/l #	73
13) Acrolein	3.793	56	1475	11.584	ug/l #	15
15) Acrylonitrile	5.263	53	2987	10.196	ug/l #	80
16) Acetone	4.028	43	12627	25.872	ug/l	96
18) Methyl Acetate	4.569	43	64	4.000	ug/l #	42
20) Methylene Chloride	4.805	84	18531	9.358	ug/l	95
23) Vinyl Acetate	6.140	43	70	Below Cal	#	63
25) 2-Butanone	7.099	43	2409	Below Cal	#	81
31) Cyclohexane	7.863	56	5972	2.561	ug/l #	65
36) 1,1-Dichloropropene	7.875	75	9780	3.917	ug/l #	44
38) Carbon Tetrachloride	7.875	117	12409	5.019	ug/l #	14
39) Methylcyclohexane	9.275	83	4086	1.379	ug/l #	82
40) Benzene	8.252	78	31667	4.388	ug/l	95
48) Methyl methacrylate	9.387	41	1366	1.589	ug/l #	62
51) 4-Methyl-2-Pentanone	10.163	43	924	1.074	ug/l #	68
52) Toluene	10.334	92	81034	17.757	ug/l	95
67) Ethyl Benzene	11.687	91	20242	1.894	ug/l	92
68) m/p-Xylenes	11.793	106	22908	5.495	ug/l	85
69) o-Xylene	12.116	106	7547	1.984	ug/l	83
76) 1,2,3-Trichloropropane	12.575	75	61767	50.867	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	61767	105.602	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.216	105	10985	1.357	ug/l	98
86) p-Isopropyltoluene	13.457	119	13133	1.478	ug/l	98
95) Naphthalene	15.328	128	11636	2.639	ug/l #	93

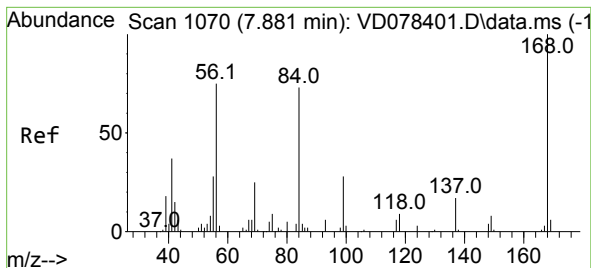
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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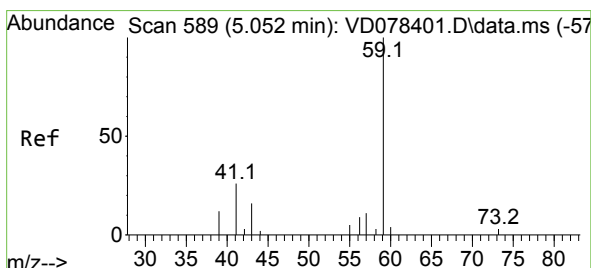
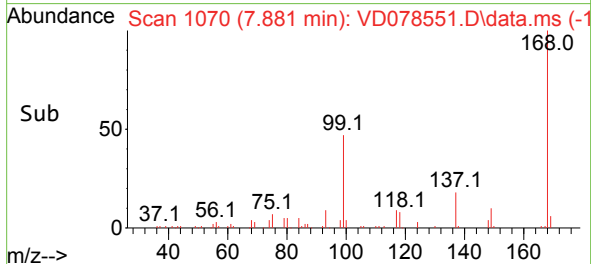
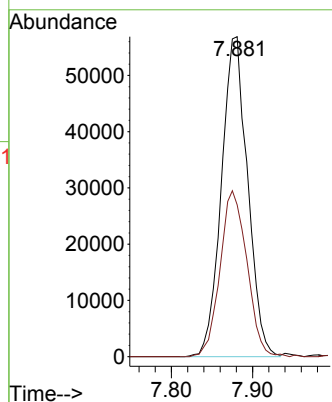
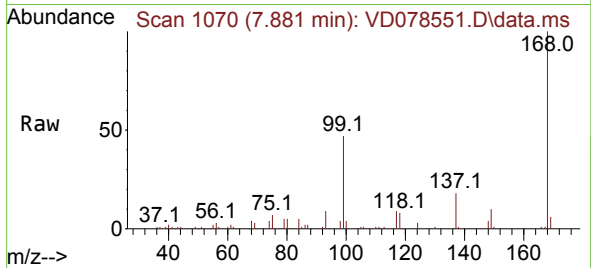




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

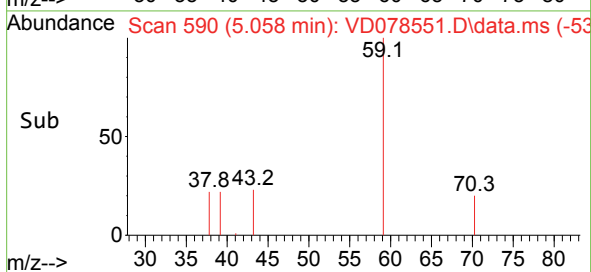
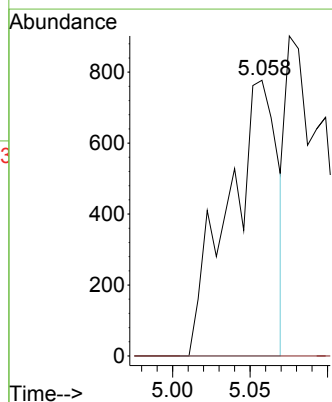
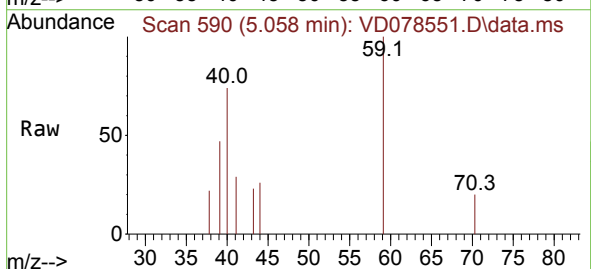
Instrument :
MSVOA_D
ClientSampleId :
1839

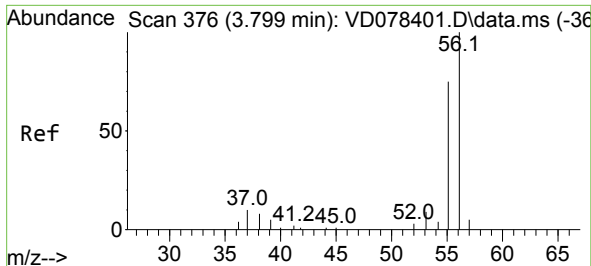
Tgt Ion:168 Resp: 127469
Ion Ratio Lower Upper
168 100
99 47.4 36.7 55.1



#11
Tert butyl alcohol
Concen: 17.709 ug/l
RT: 5.058 min Scan# 590
Delta R.T. 0.006 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion: 59 Resp: 1715
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

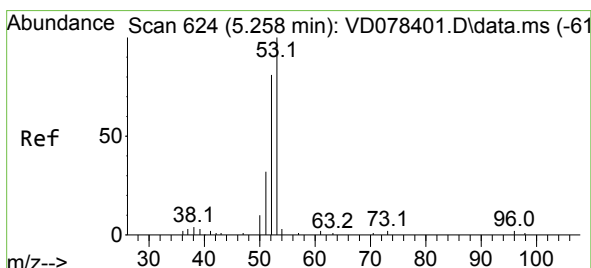
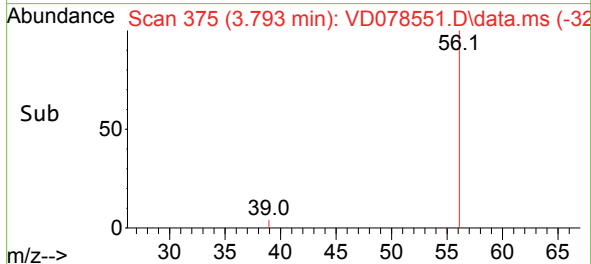
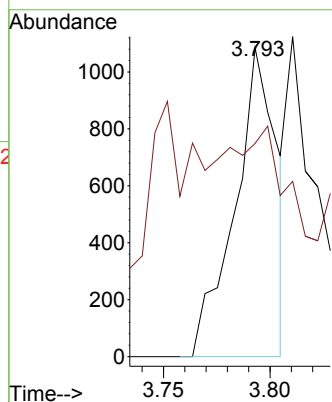
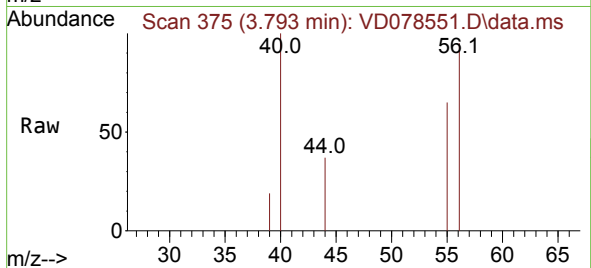




#13
Acrolein
Concen: 11.584 ug/l
RT: 3.793 min Scan# 31
Delta R.T. -0.006 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

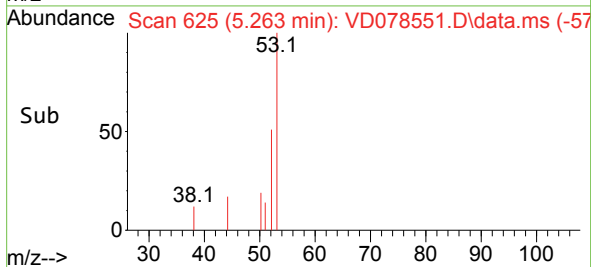
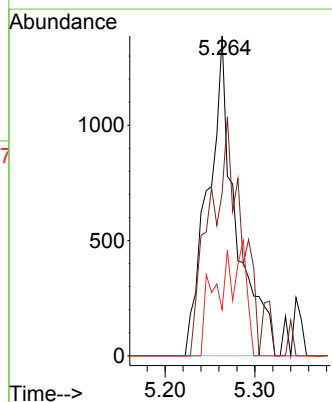
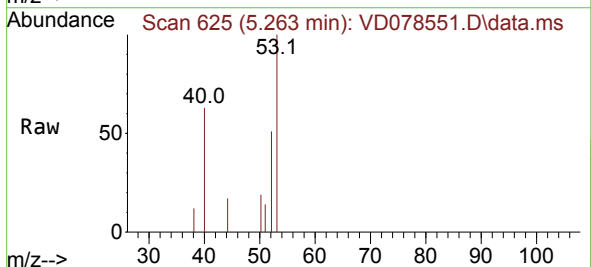
Instrument :
MSVOA_D
ClientSampleId :
1839

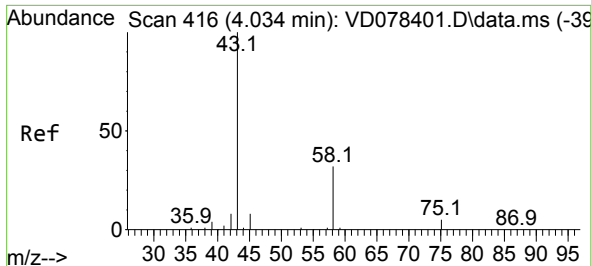
Tgt Ion: 56 Resp: 1475
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#



#15
Acrylonitrile
Concen: 10.196 ug/l
RT: 5.263 min Scan# 625
Delta R.T. 0.006 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion: 53 Resp: 2987
Ion Ratio Lower Upper
53 100
52 82.9 65.0 97.4
51 0.0 28.3 42.5#

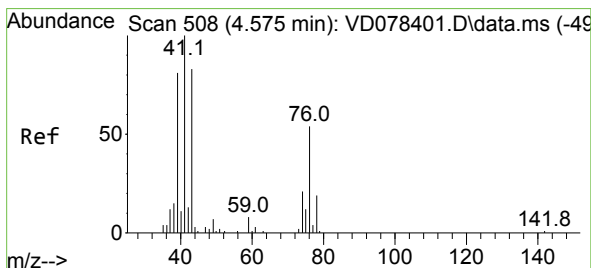
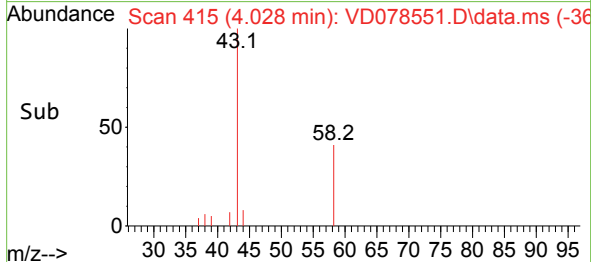
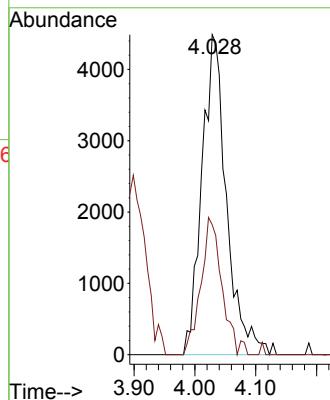
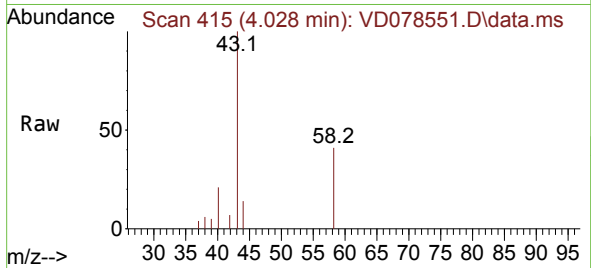




#16
Acetone
Concen: 25.872 ug/l
RT: 4.028 min Scan# 416
Delta R.T. -0.006 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

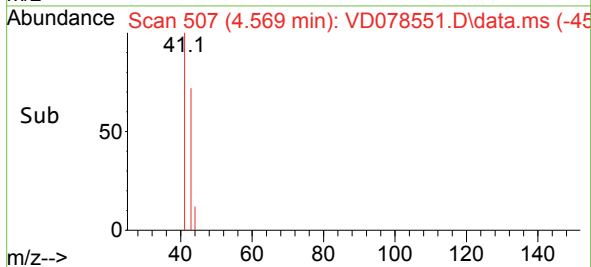
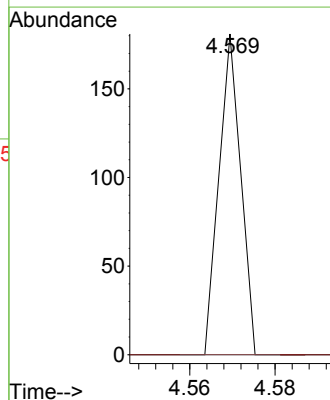
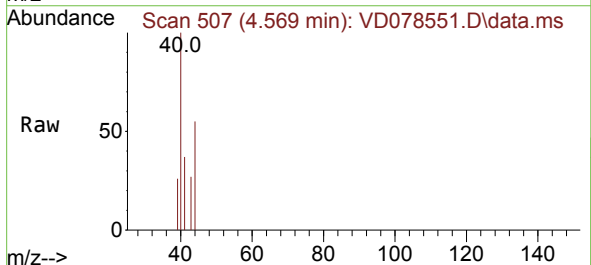
Instrument :
MSVOA_D
ClientSampleId :
1839

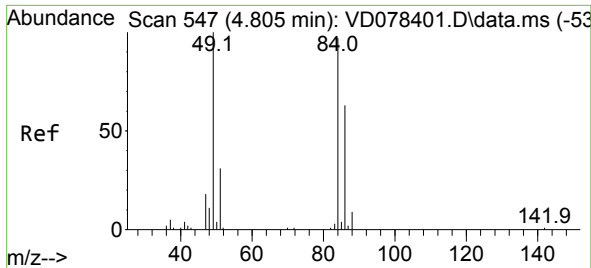
Tgt Ion: 43 Resp: 12627
Ion Ratio Lower Upper
43 100
58 40.6 34.7 52.1



#18
Methyl Acetate
Concen: 4.000 ug/l
RT: 4.569 min Scan# 507
Delta R.T. -0.006 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#

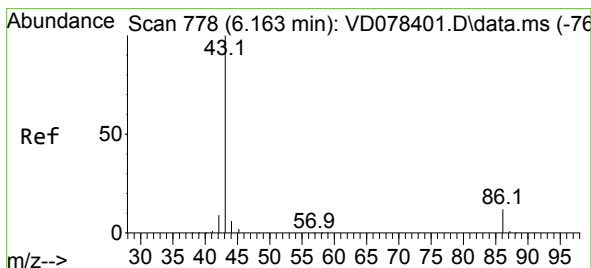
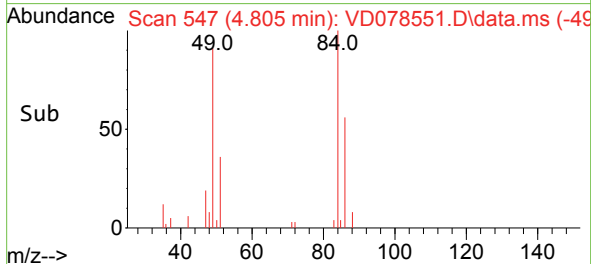
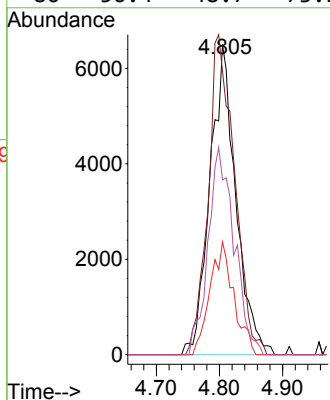
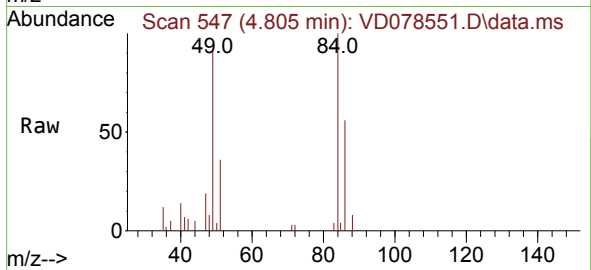




#20
Methylene Chloride
Concen: 9.358 ug/l
RT: 4.805 min Scan# 54
Delta R.T. -0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

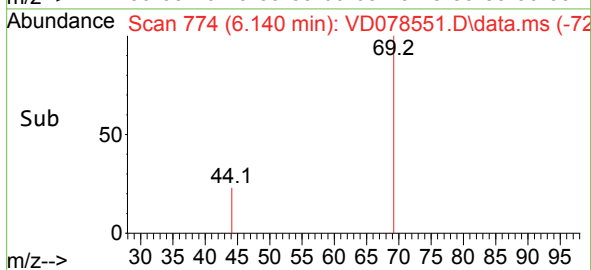
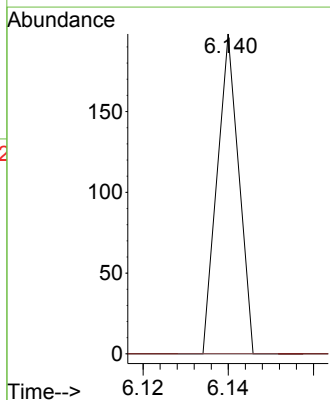
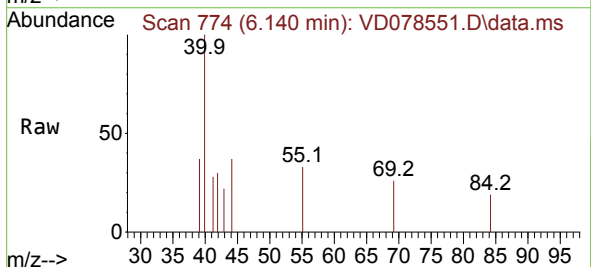
Instrument :
MSVOA_D
ClientSampleId :
1839

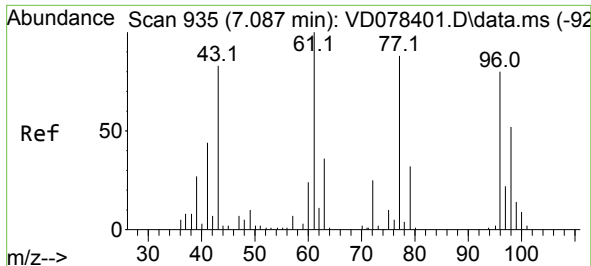
Tgt Ion:	84	Resp:	18531
Ion	Ratio	Lower	Upper
84	100		
49	91.4	71.4	107.2
51	36.4	24.5	36.7
86	56.4	48.7	73.1



#23
Vinyl Acetate
Concen: Below Cal
RT: 6.140 min Scan# 774
Delta R.T. -0.023 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion:	43	Resp:	70
Ion	Ratio	Lower	Upper
43	100		
86	0.0	12.5	18.7#





#25

2-Butanone

Concen: Below Cal

RT: 7.099 min Scan# 91

Delta R.T. 0.012 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

Instrument :

MSVOA_D

ClientSampleId :

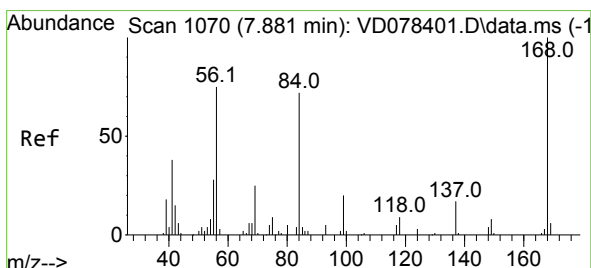
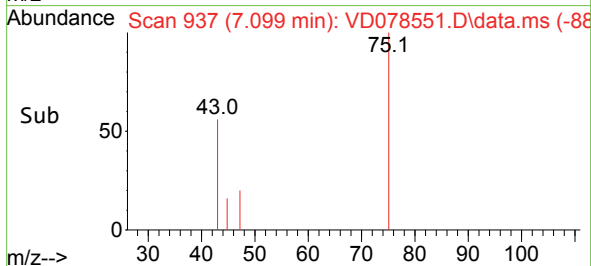
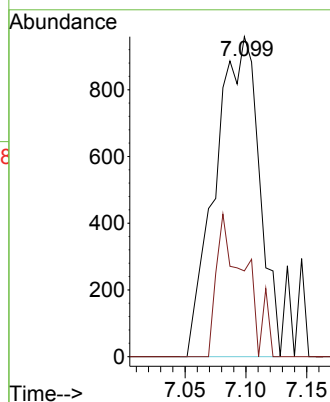
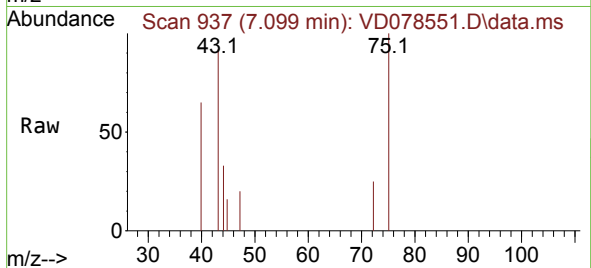
1839

Tgt Ion: 43 Resp: 2409

Ion Ratio Lower Upper

43 100

72 26.8 30.7 46.1#



#31

Cyclohexane

Concen: 2.561 ug/l

RT: 7.863 min Scan# 1067

Delta R.T. -0.018 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

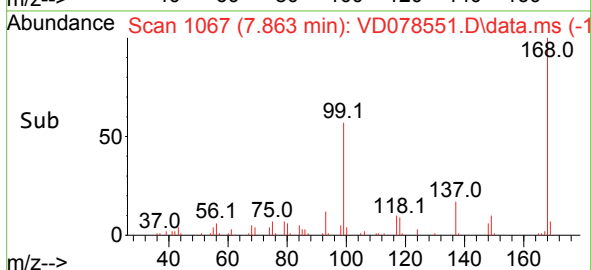
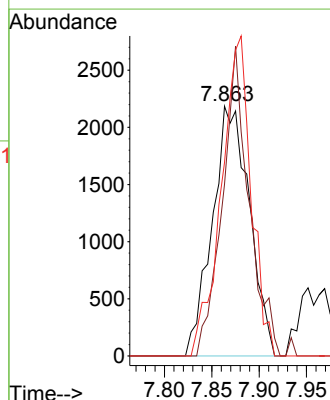
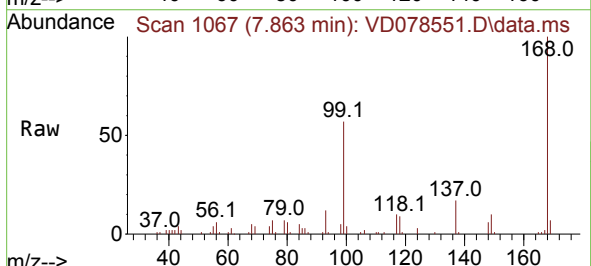
Tgt Ion: 56 Resp: 5972

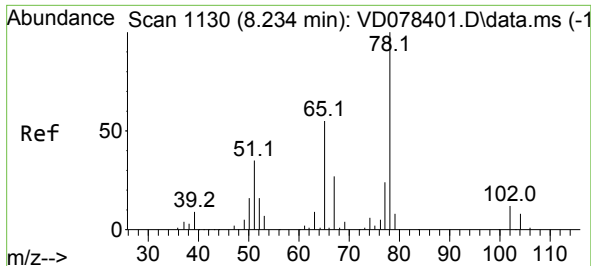
Ion Ratio Lower Upper

56 100

69 68.7 28.6 43.0#

84 77.4 84.8 127.2#





#33

1,2-Dichloroethane-d4

Concen: 38.047 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

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ClientSampleId :

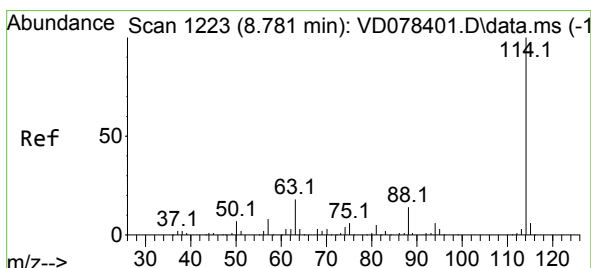
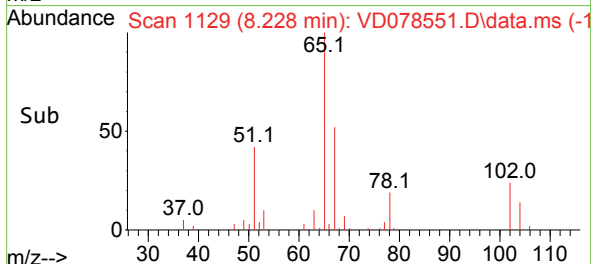
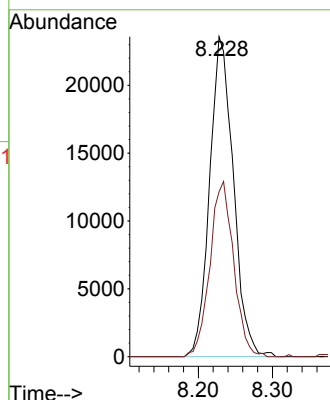
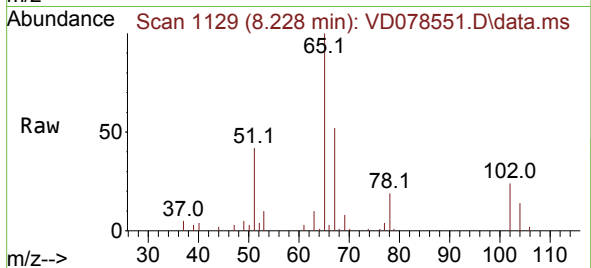
1839

Tgt Ion: 65 Resp: 52439

Ion Ratio Lower Upper

65 100

67 54.7 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.000 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

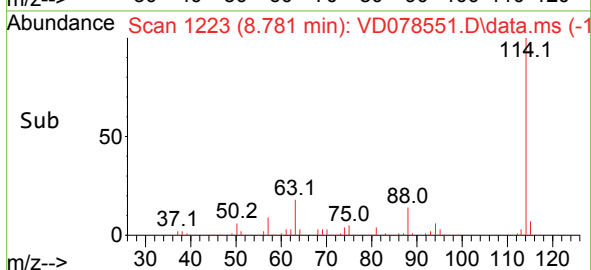
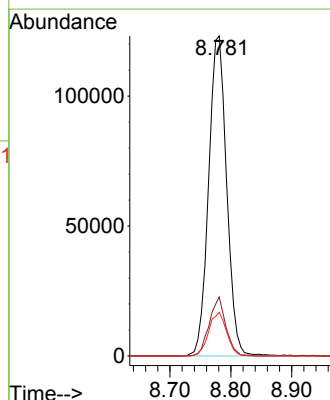
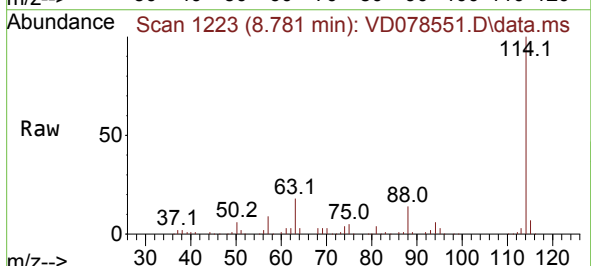
Tgt Ion:114 Resp: 253009

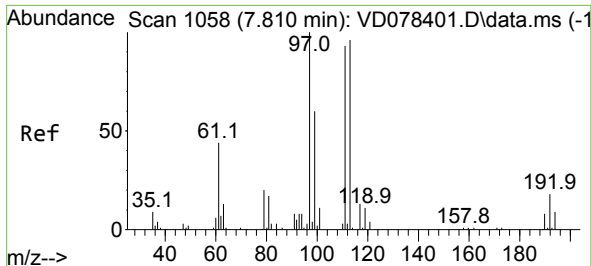
Ion Ratio Lower Upper

114 100

63 18.4 0.0 33.4

88 13.6 0.0 26.2





#35

Dibromofluoromethane

Concen: 45.005 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

Instrument :

MSVOA_D

ClientSampleId :

1839

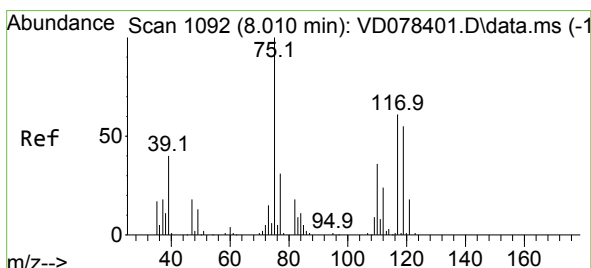
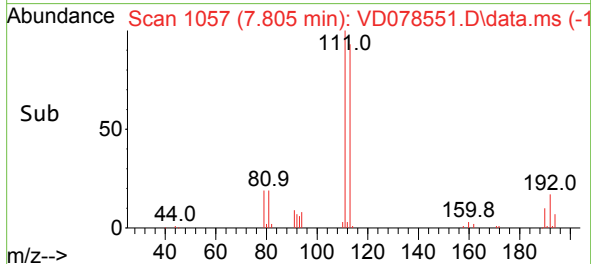
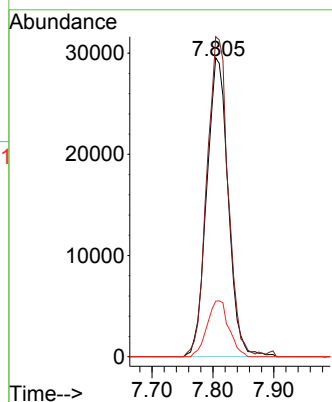
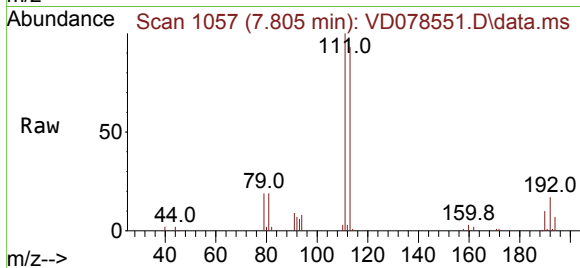
Tgt Ion:113 Resp: 72331

Ion Ratio Lower Upper

113 100

111 105.7 84.7 127.1

192 18.9 16.8 25.2



#36

1,1-Dichloropropene

Concen: 3.917 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.135 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

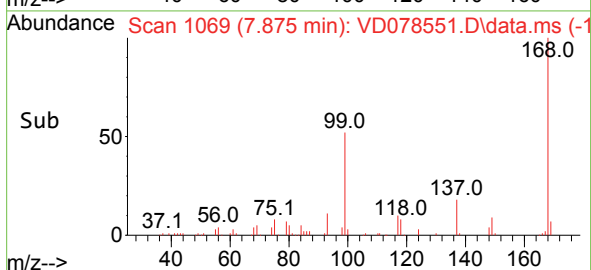
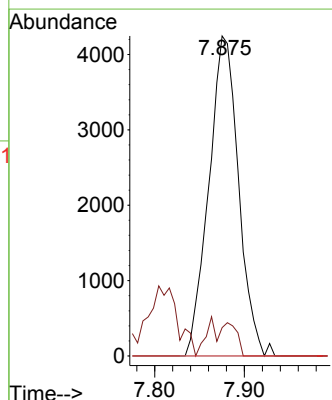
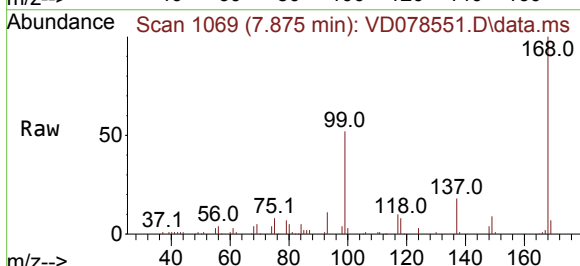
Tgt Ion: 75 Resp: 9780

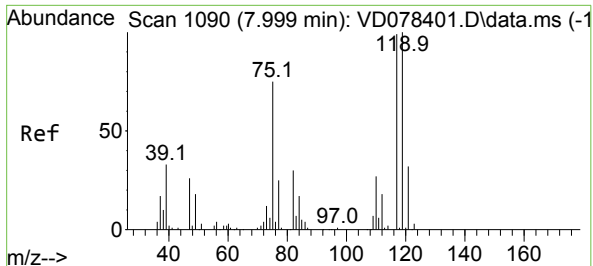
Ion Ratio Lower Upper

75 100

110 5.5 19.9 59.6#

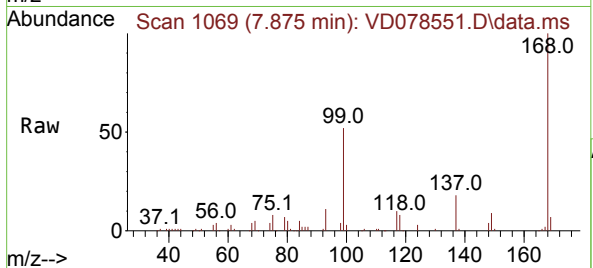
77 0.0 24.7 37.1#



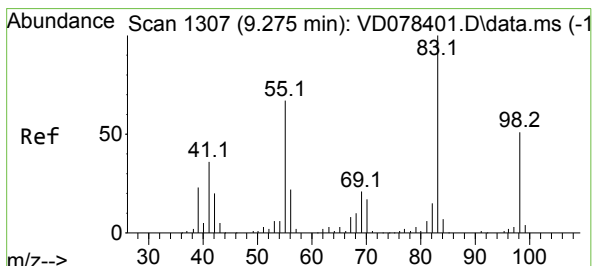
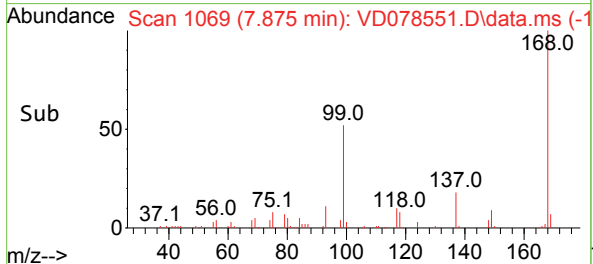
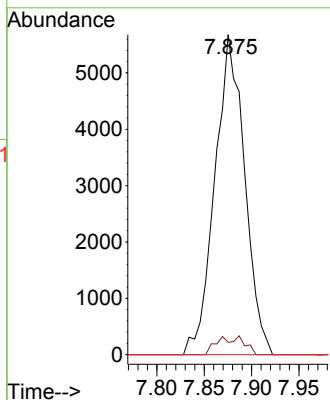


#38
Carbon Tetrachloride
Concen: 5.019 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.123 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Instrument :
MSVOA_D
ClientSampleId :
1839

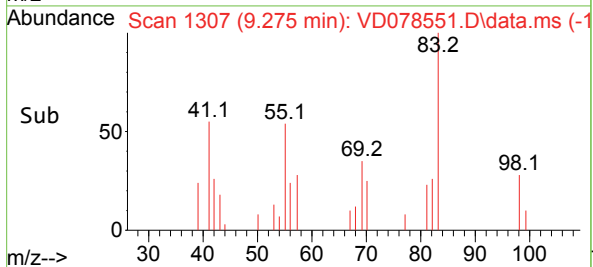
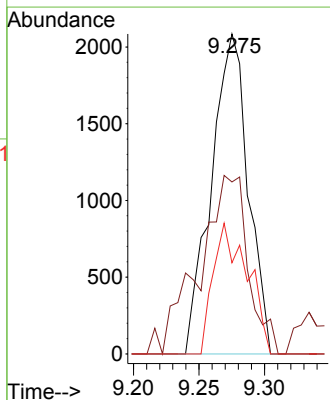
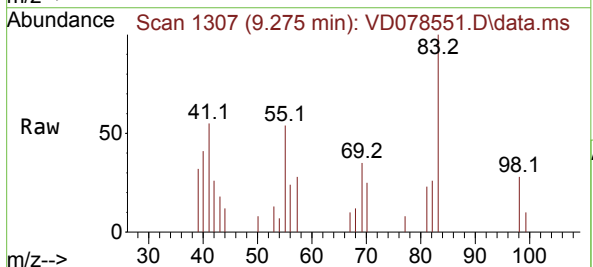


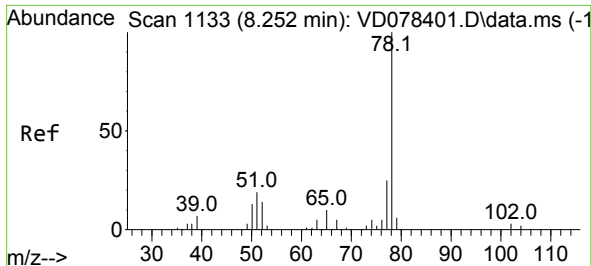
Tgt Ion:117 Resp: 12409
Ion Ratio Lower Upper
117 100
119 3.8 78.0 117.0#
121 0.0 24.2 36.2#



#39
Methylcyclohexane
Concen: 1.379 ug/l
RT: 9.275 min Scan# 1307
Delta R.T. 0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion: 83 Resp: 4086
Ion Ratio Lower Upper
83 100
55 53.8 49.4 74.0
98 28.5 38.4 57.6#

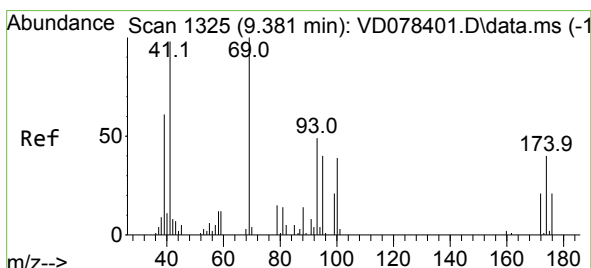
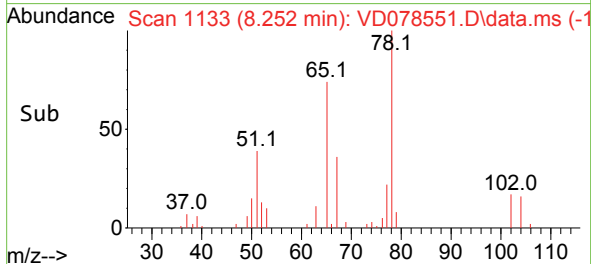
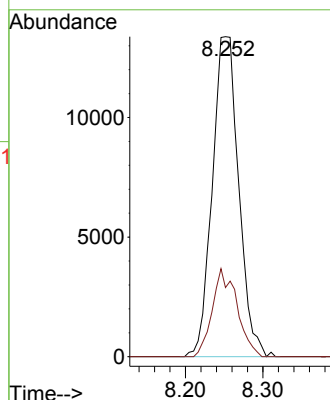
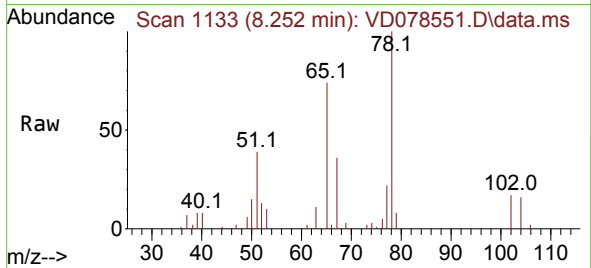




#40
Benzene
Concen: 4.388 ug/l
RT: 8.252 min Scan# 1133
Delta R.T. 0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

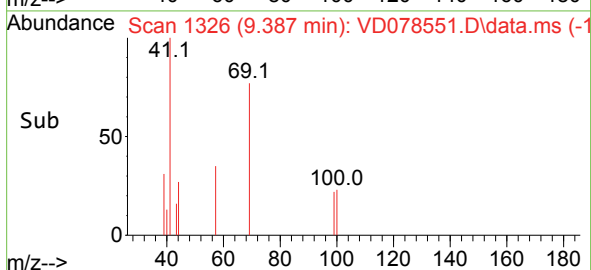
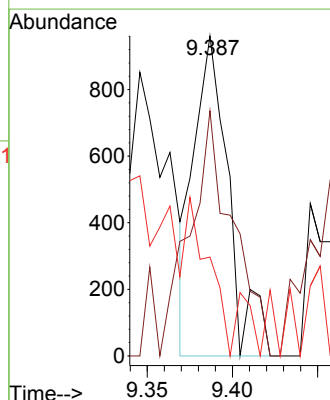
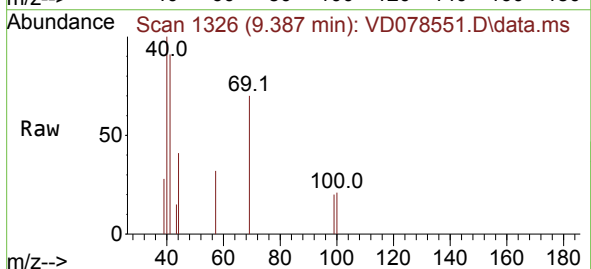
Instrument :
MSVOA_D
ClientSampleId :
1839

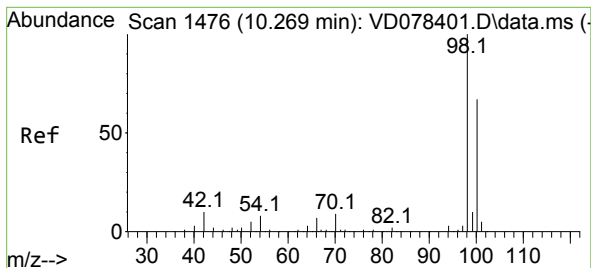
Tgt Ion: 78 Resp: 31667
Ion Ratio Lower Upper
78 100
77 21.6 19.4 29.0



#48
Methyl methacrylate
Concen: 1.589 ug/l
RT: 9.387 min Scan# 1326
Delta R.T. 0.006 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion: 41 Resp: 1366
Ion Ratio Lower Upper
41 100
69 94.8 102.2 153.2#
39 8.8 41.4 62.2#





#50

Toluene-d8

Concen: 49.126 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

Instrument :

MSVOA_D

ClientSampleId :

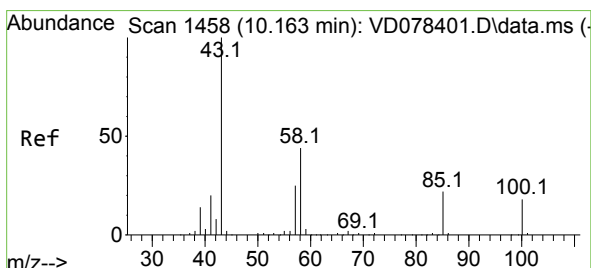
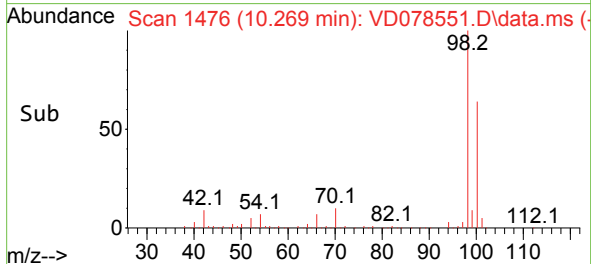
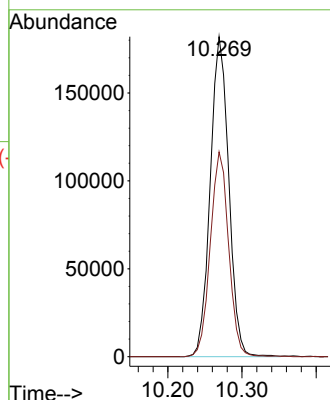
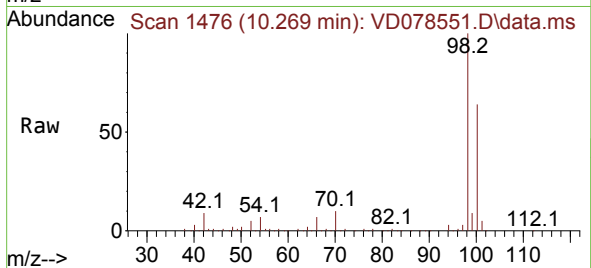
1839

Tgt Ion: 98 Resp: 315832

Ion Ratio Lower Upper

98 100

100 63.5 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 1.074 ug/l

RT: 10.163 min Scan# 1458

Delta R.T. 0.000 min

Lab File: VD078551.D

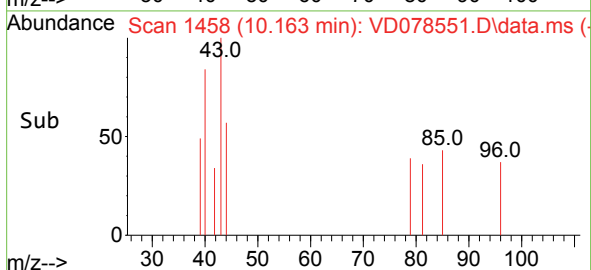
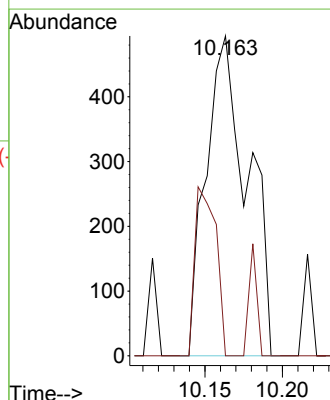
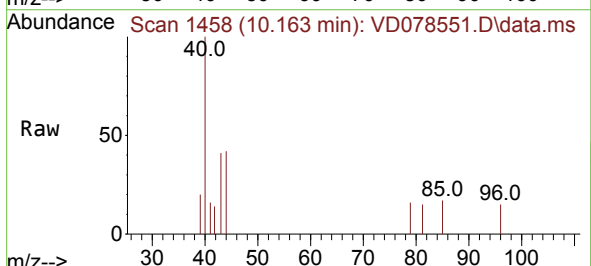
Acq: 26 Feb 2024 13:58

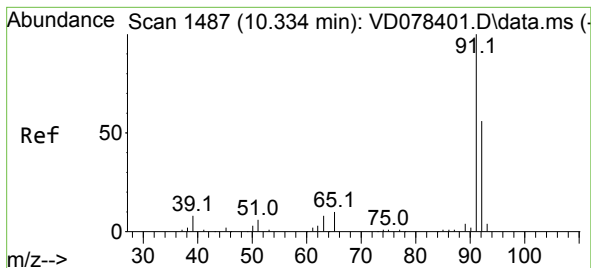
Tgt Ion: 43 Resp: 924

Ion Ratio Lower Upper

43 100

58 26.7 38.9 58.3#





#52

Toluene

Concen: 17.757 ug/l

RT: 10.334 min Scan# 1487

Delta R.T. 0.000 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

Instrument :

MSVOA_D

ClientSampleId :

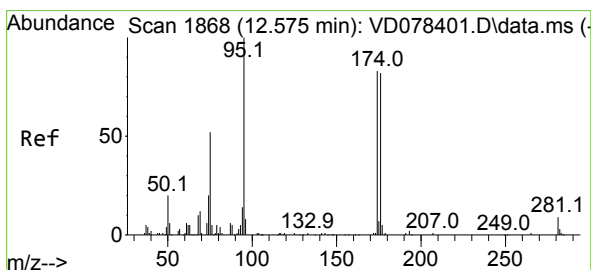
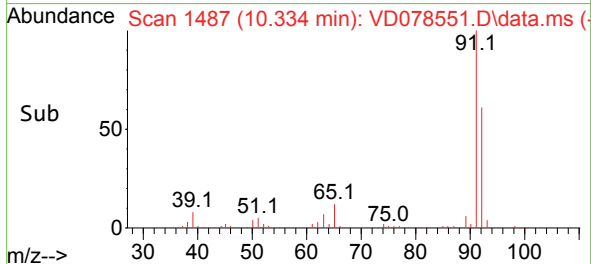
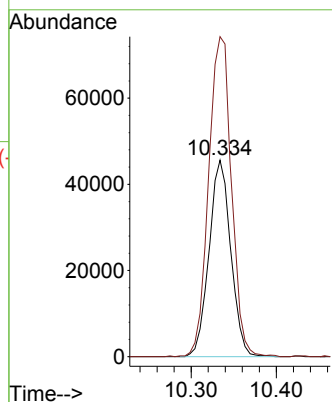
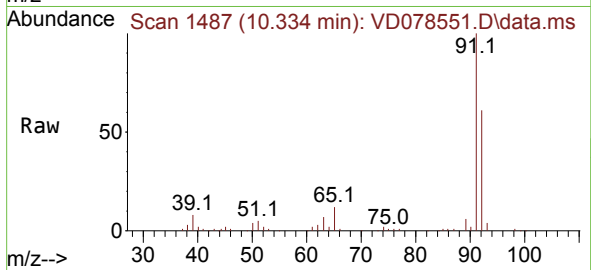
1839

Tgt Ion: 92 Resp: 81034

Ion Ratio Lower Upper

92 100

91 171.2 143.0 214.4



#62

4-Bromofluorobenzene

Concen: 65.398 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. 0.000 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

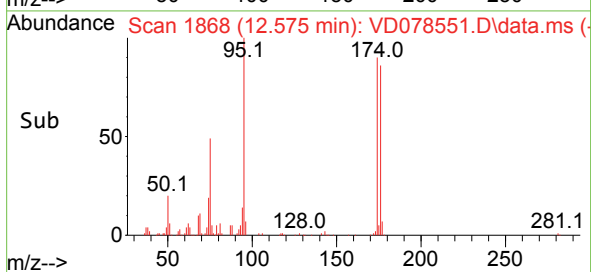
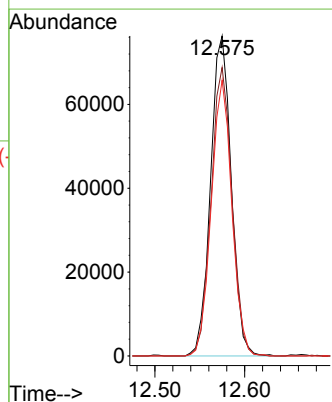
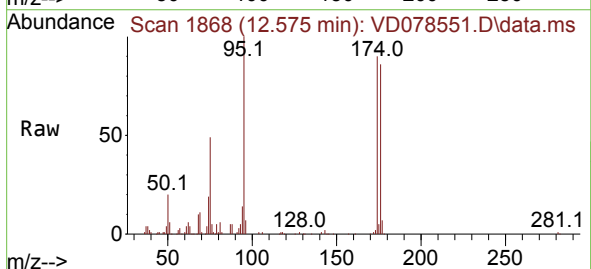
Tgt Ion: 95 Resp: 122352

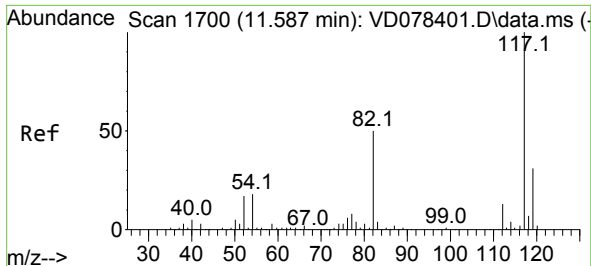
Ion Ratio Lower Upper

95 100

174 91.2 0.0 201.8

176 85.7 0.0 191.8

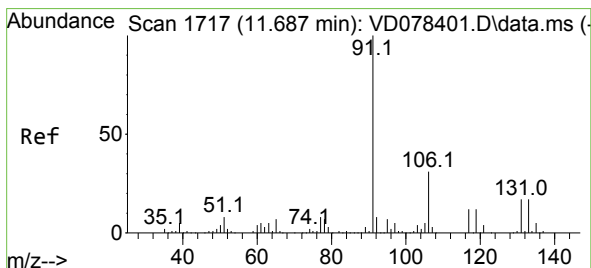
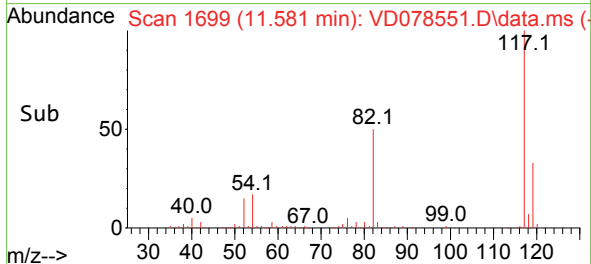
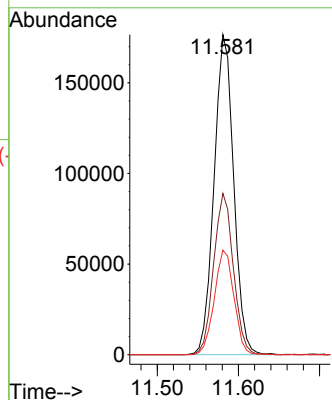
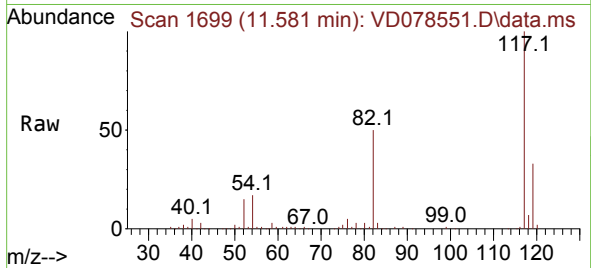




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

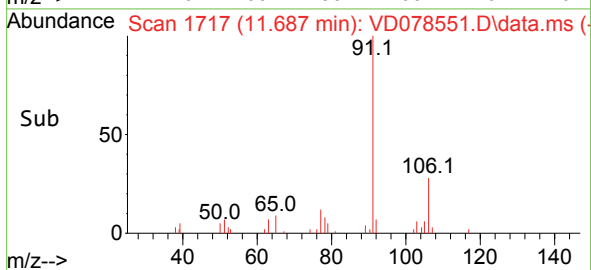
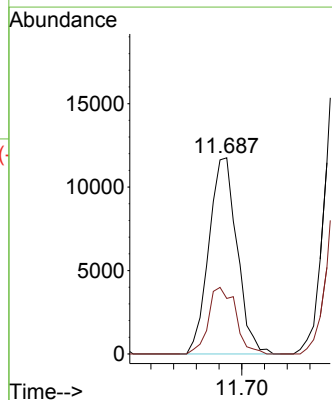
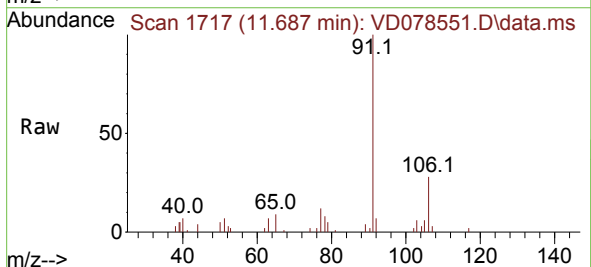
Instrument :
MSVOA_D
ClientSampleId :
1839

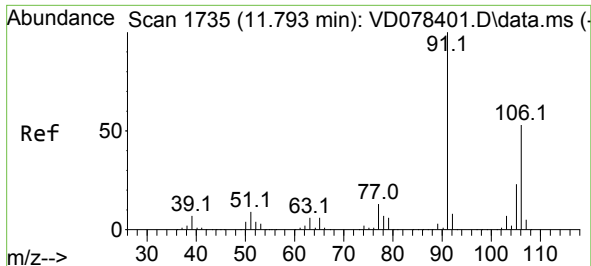
Tgt Ion:117 Resp: 296691
Ion Ratio Lower Upper
117 100
82 50.4 38.3 57.5
119 32.6 25.0 37.4



#67
Ethyl Benzene
Concen: 1.894 ug/l
RT: 11.687 min Scan# 1717
Delta R.T. 0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion: 91 Resp: 20242
Ion Ratio Lower Upper
91 100
106 28.3 26.5 39.7

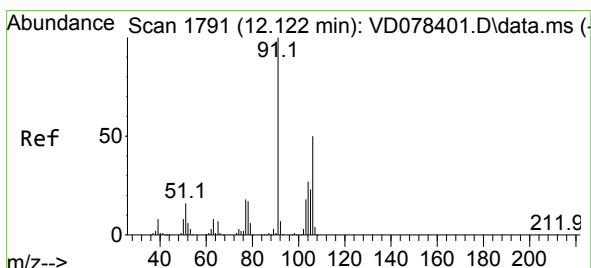
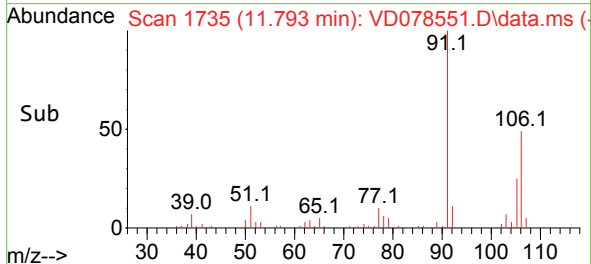
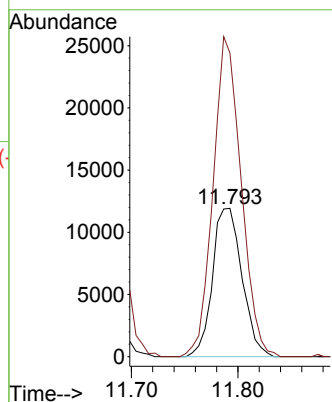
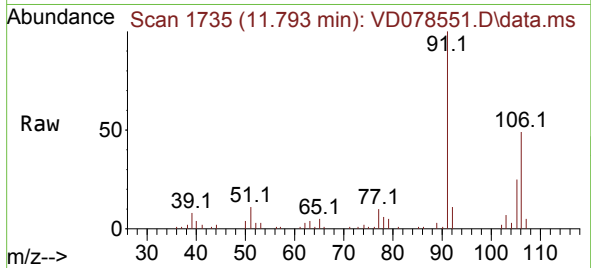




#68
m/p-Xylenes
Concen: 5.495 ug/l
RT: 11.793 min Scan# 1735
Delta R.T. 0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

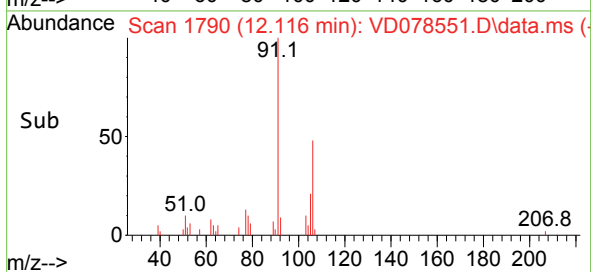
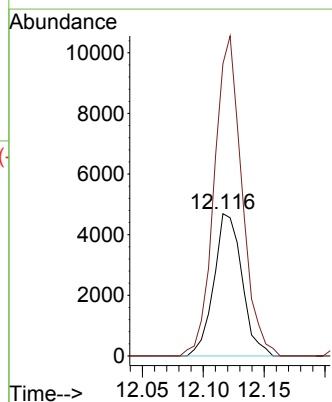
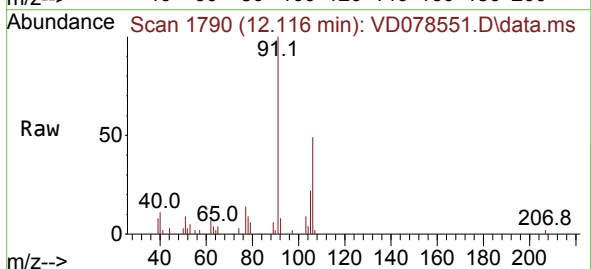
Instrument :
MSVOA_D
ClientSampleId :
1839

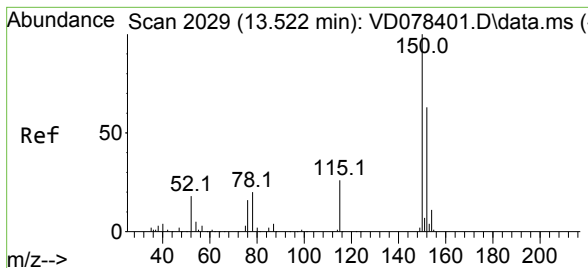
Tgt Ion:106 Resp: 22908
Ion Ratio Lower Upper
106 100
91 205.5 147.0 220.6



#69
o-Xylene
Concen: 1.984 ug/l
RT: 12.116 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion:106 Resp: 7547
Ion Ratio Lower Upper
106 100
91 220.9 97.9 293.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 20

Delta R.T. -0.006 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

Instrument :

MSVOA_D

ClientSampleId :

1839

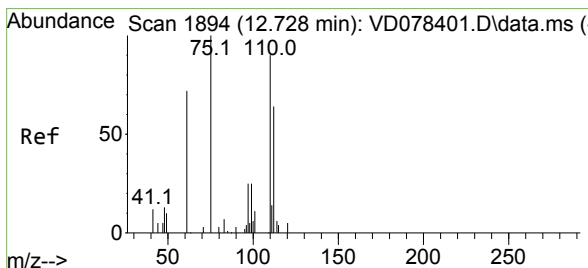
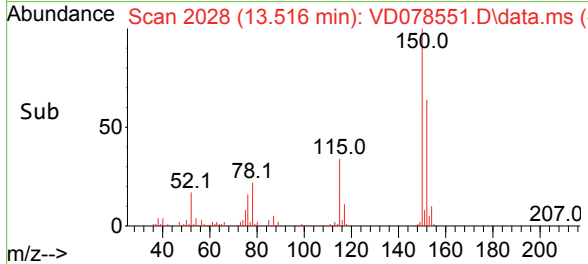
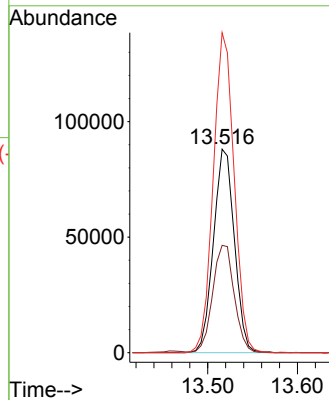
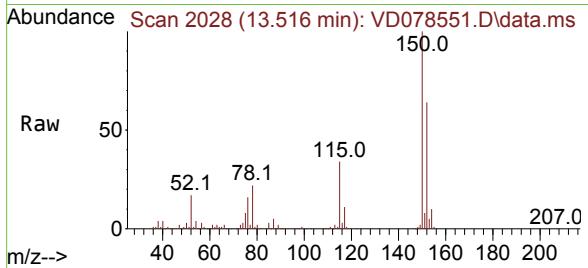
Tgt Ion:152 Resp: 143029

Ion Ratio Lower Upper

152 100

115 54.4 27.1 81.3

150 156.5 0.0 353.6



#76

1,2,3-Trichloropropane

Concen: 50.867 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.153 min

Lab File: VD078551.D

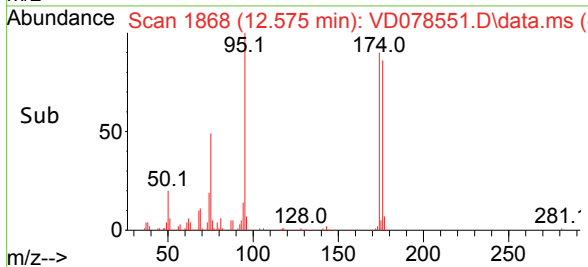
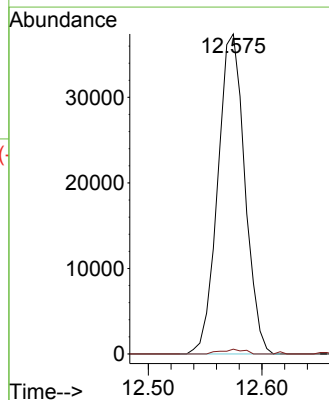
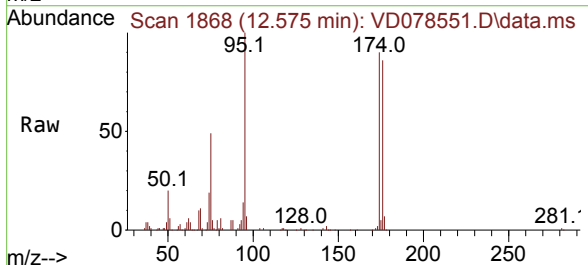
Acq: 26 Feb 2024 13:58

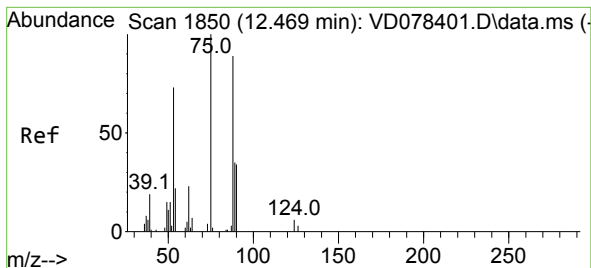
Tgt Ion: 75 Resp: 61767

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#

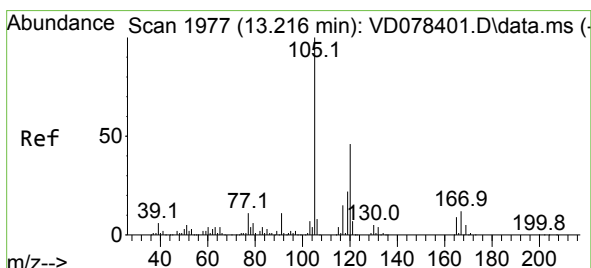
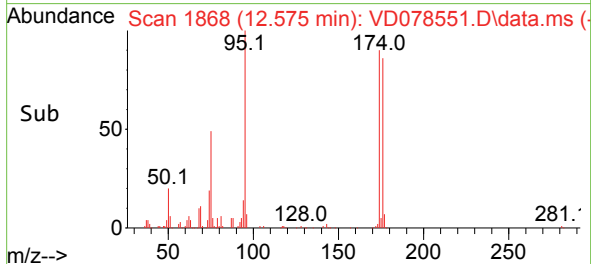
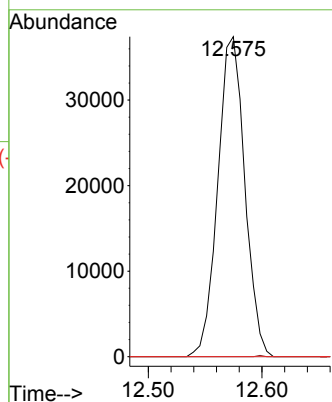
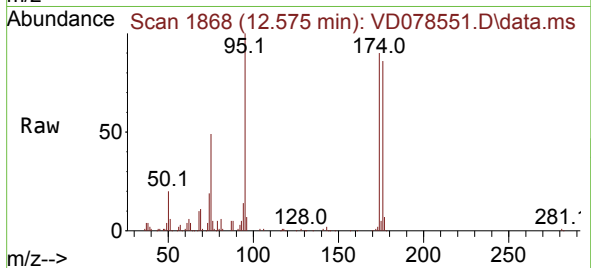




#81
trans-1,4-Dichloro-2-butene
Concen: 105.602 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

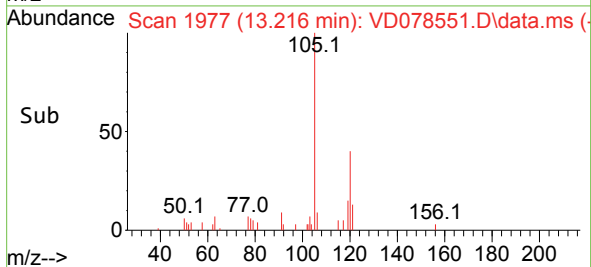
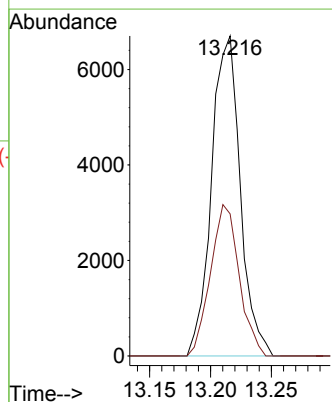
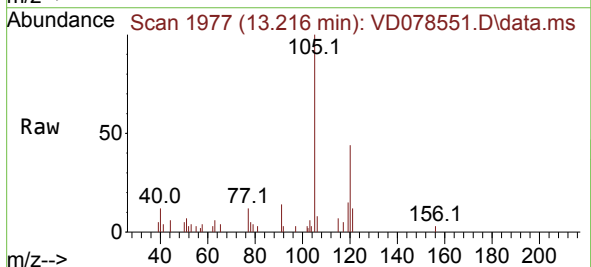
Instrument :
MSVOA_D
ClientSampleId :
1839

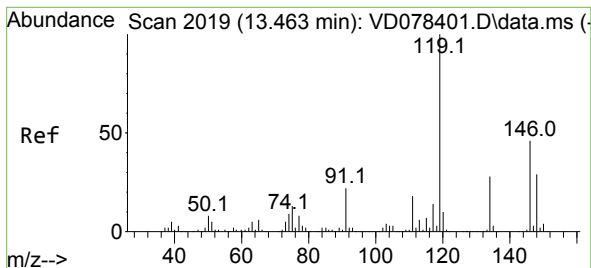
Tgt Ion: 75 Resp: 61767
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#



#84
1,2,4-Trimethylbenzene
Concen: 1.357 ug/l
RT: 13.216 min Scan# 1977
Delta R.T. 0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion: 105 Resp: 10985
Ion Ratio Lower Upper
105 100
120 47.3 24.3 72.9





#86

p-Isopropyltoluene

Concen: 1.478 ug/l

RT: 13.457 min Scan# 2019

Delta R.T. -0.006 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

Instrument :

MSVOA_D

ClientSampleId :

1839

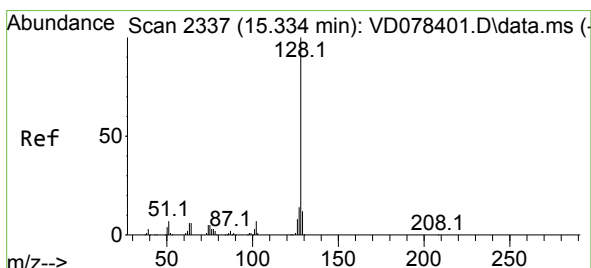
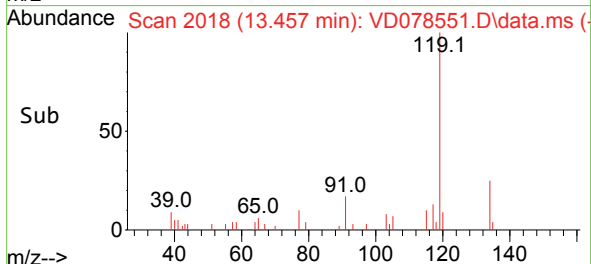
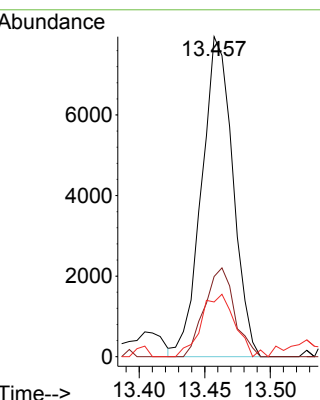
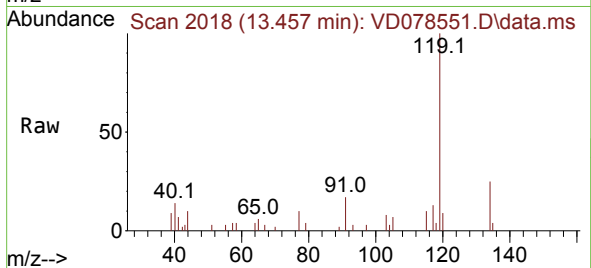
Tgt Ion:119 Resp: 13133

Ion Ratio Lower Upper

119 100

134 26.5 14.2 42.6

91 21.1 10.5 31.5



#95

Naphthalene

Concen: 2.639 ug/l

RT: 15.328 min Scan# 2336

Delta R.T. -0.006 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

Tgt Ion:128 Resp: 11636

Ion Ratio Lower Upper

128 100

127 9.1 10.5 15.7#

129 9.6 8.7 13.1

