

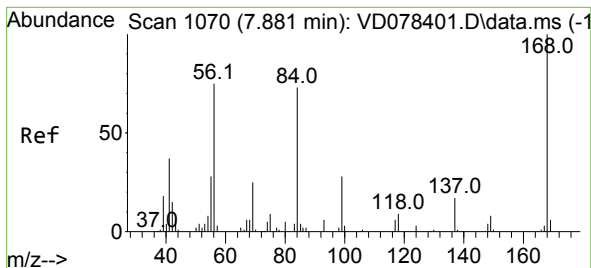
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD021524\
 Data File : VD078435.D
 Acq On : 15 Feb 2024 14:55
 Operator : RP/MD
 Sample : P1483-01
 Misc : 5.05G/5ml/MSVOA_D/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RT-2327

Quant Time: Feb 16 02:36:08 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	41983	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	81579	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	97900	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	54069	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	25207	55.529	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	111.060%
35) Dibromofluoromethane	7.805	113	27973	53.981	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	107.960%
50) Toluene-d8	10.269	98	106512	51.382	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	102.760%
62) 4-Bromofluorobenzene	12.569	95	42915	71.141	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	142.280%
Target Compounds						
					Qvalue	
16) Acetone	4.022	43	1803	Below Cal	#	85
18) Methyl Acetate	4.828	43	64	4.123	ug/l #	42
20) Methylene Chloride	4.811	84	2533	1.957	ug/l #	86
23) Vinyl Acetate	6.152	43	77	Below Cal	#	63
25) 2-Butanone	7.087	43	224	Below Cal	#	37
29) Tetrahydrofuran	7.463	42	68	1.007	ug/l #	23
31) Cyclohexane	7.875	56	1285	1.673	ug/l #	63
36) 1,1-Dichloropropene	7.875	75	3170	3.938	ug/l #	43
38) Carbon Tetrachloride	7.881	117	4107	5.152	ug/l #	11
39) Methylcyclohexane	9.275	83	1962	2.053	ug/l	89
55) 1,1,2-Trichloroethane	10.698	97	1105	2.555	ug/l #	16
56) Ethyl methacrylate	10.610	69	496	1.240	ug/l #	1
59) 2-Hexanone	10.893	43	1330	6.381	ug/l #	16
71) Bromoform	12.569	173	427	1.122	ug/l #	1
74) N-amyl acetate	12.216	43	3364	4.898	ug/l #	71
76) 1,2,3-Trichloropropane	12.569	75	22580	49.191	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.569	75	22580	102.121	ug/l #	18
85) sec-Butylbenzene	13.345	105	5445	1.381	ug/l #	62
89) n-Butylbenzene	13.787	91	5689	1.757	ug/l	90
90) Hexachloroethane	14.069	117	3940	5.708	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.469	75	138	1.463	ug/l #	1
95) Naphthalene	15.334	128	3213	1.927	ug/l #	65
96) 1,2,3-Trichlorobenzene	15.545	180	1132	1.486	ug/l #	13

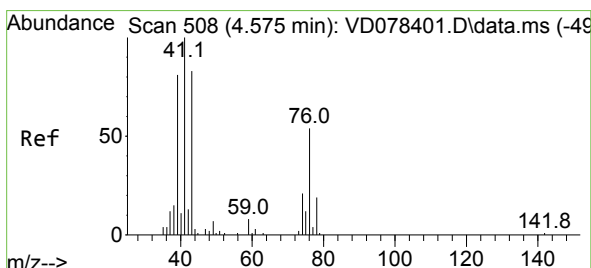
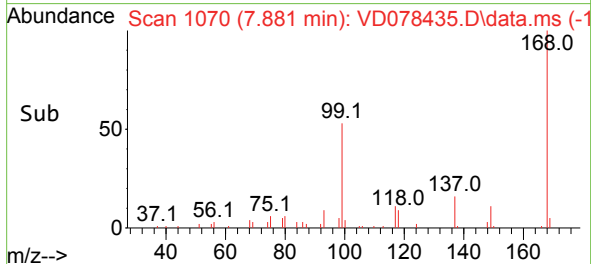
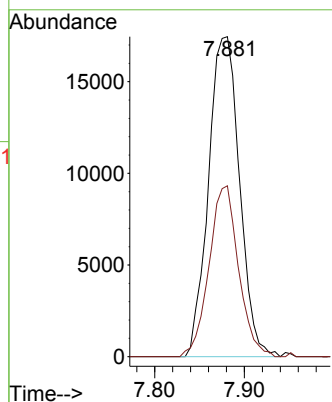
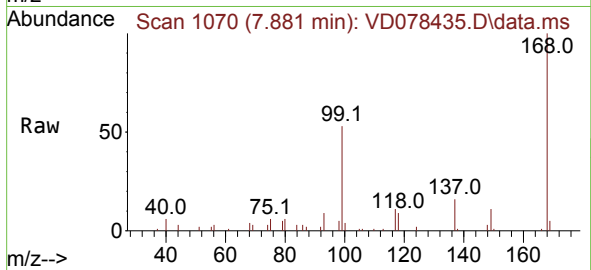
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

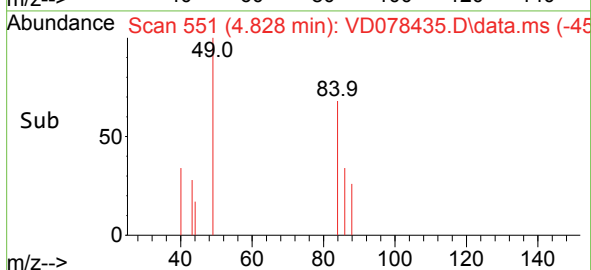
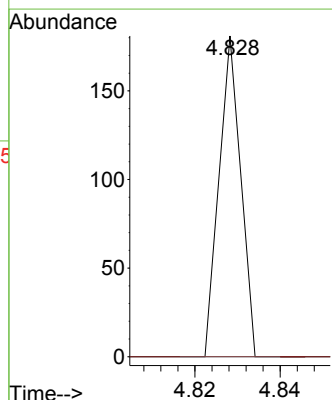
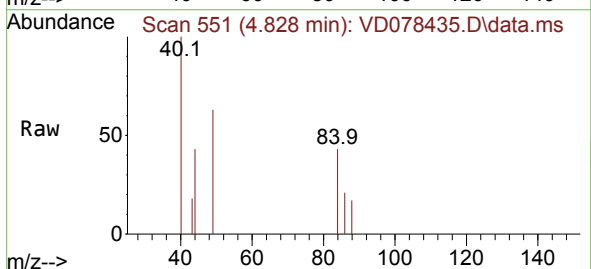
Instrument :
MSVOA_D
ClientSampleId :
RT-2327

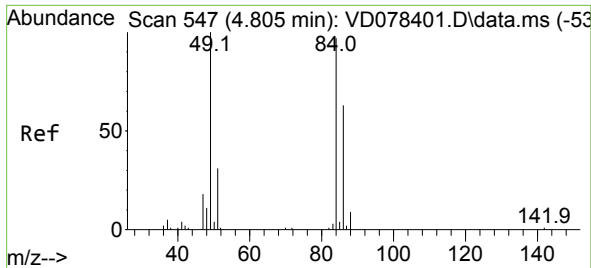
Tgt Ion:168 Resp: 41983
Ion Ratio Lower Upper
168 100
99 53.4 36.7 55.1



#18
Methyl Acetate
Concen: 4.123 ug/l
RT: 4.828 min Scan# 551
Delta R.T. 0.253 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

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

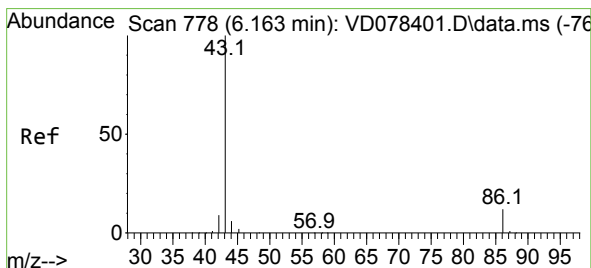
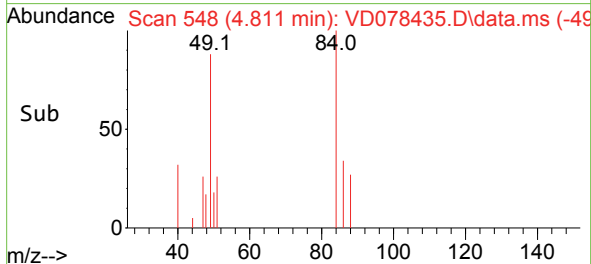
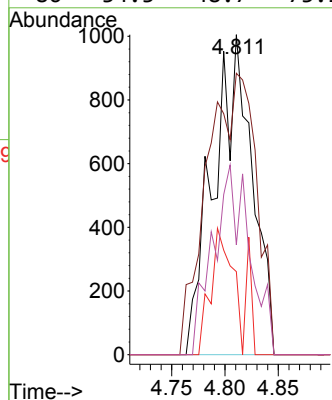
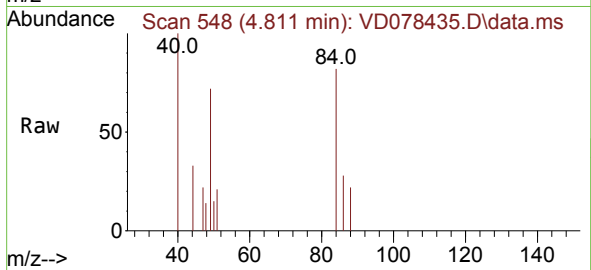




#20
Methylene Chloride
Concen: 1.957 ug/l
RT: 4.811 min Scan# 547
Delta R.T. 0.006 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

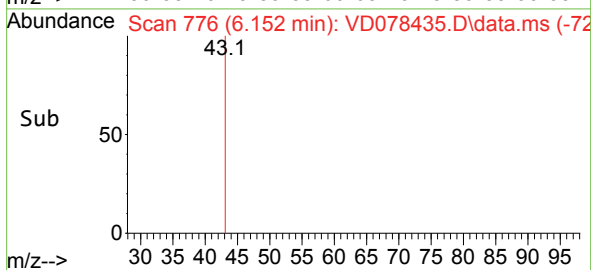
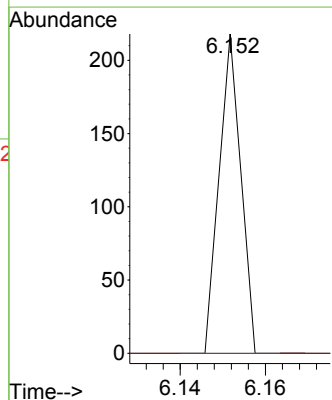
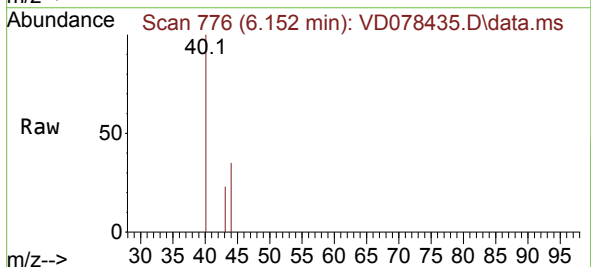
Instrument :
MSVOA_D
ClientSampleId :
RT-2327

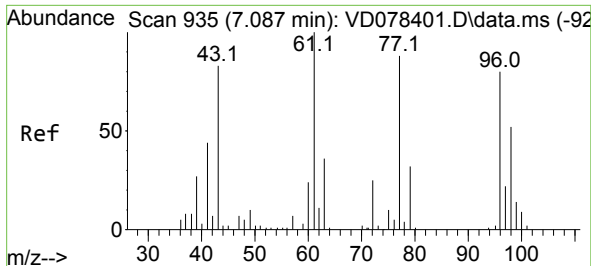
Tgt	Ion: 84	Resp:	2533
Ion	Ratio	Lower	Upper
84	100		
49	88.0	71.4	107.2
51	26.0	24.5	36.7
86	34.3	48.7	73.1#



#23
Vinyl Acetate
Concen: Below Cal
RT: 6.152 min Scan# 776
Delta R.T. -0.011 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

Tgt Ion: 43	Resp: 77		
Ion Ratio	Lower	Upper	
43 100			
86 0.0	12.5	18.7#	

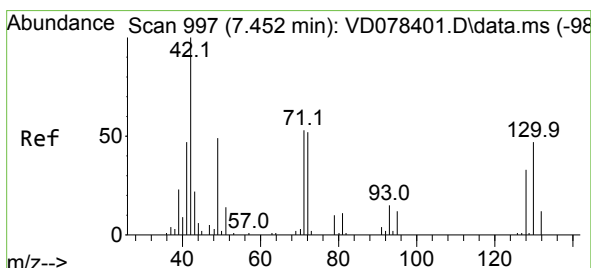
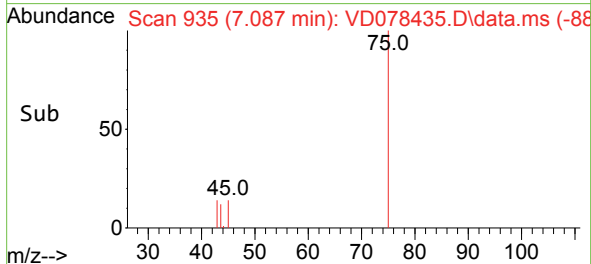
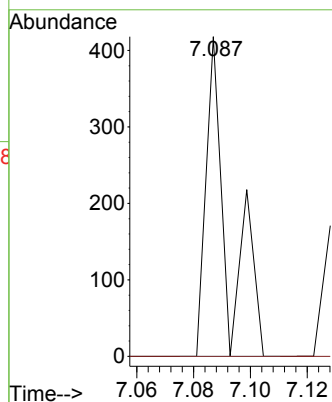
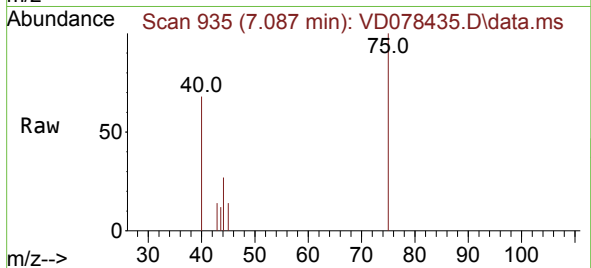




#25
2-Butanone
Concen: Below Cal
RT: 7.087 min Scan# 91
Delta R.T. -0.000 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

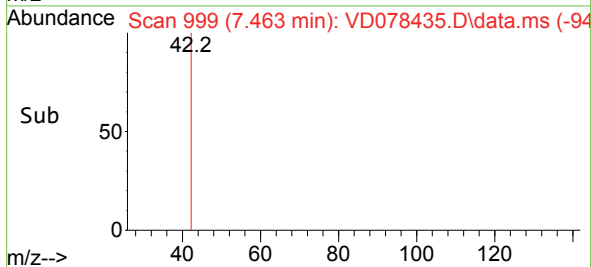
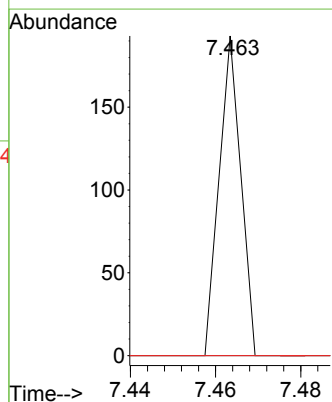
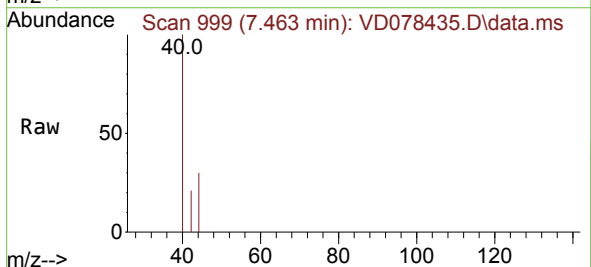
Instrument :
MSVOA_D
ClientSampleId :
RT-2327

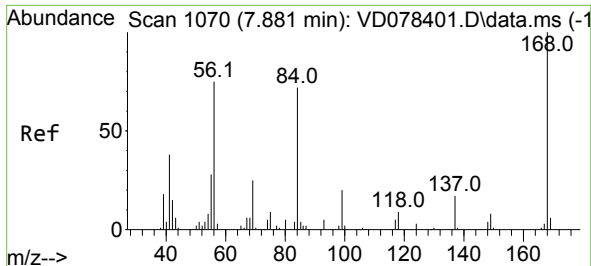
Tgt Ion: 43 Resp: 224
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



#29
Tetrahydrofuran
Concen: 1.007 ug/l
RT: 7.463 min Scan# 999
Delta R.T. 0.012 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

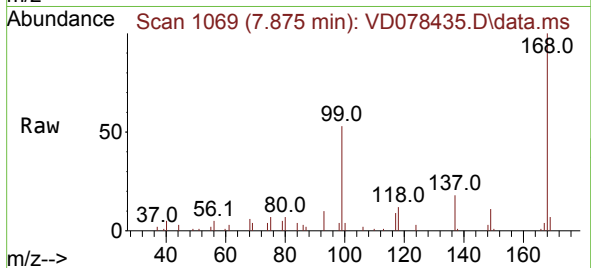
Tgt Ion: 42 Resp: 68
Ion Ratio Lower Upper
42 100
72 0.0 46.5 69.7#
71 0.0 44.5 66.7#



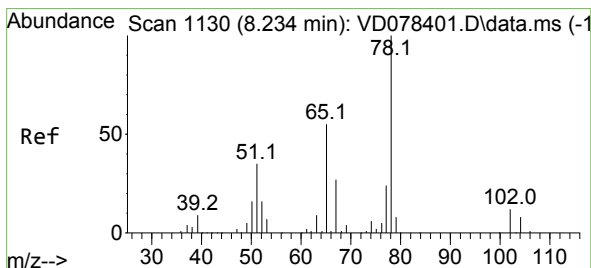
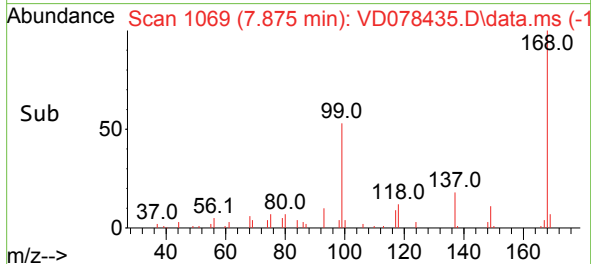
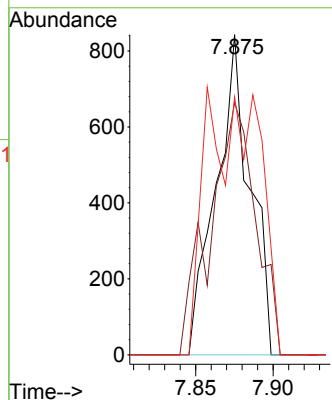


#31
Cyclohexane
Concen: 1.673 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.006 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

Instrument :
MSVOA_D
ClientSampleId :
RT-2327

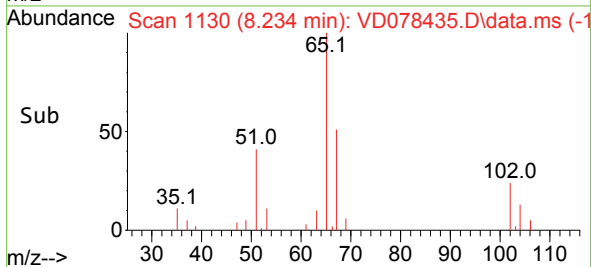
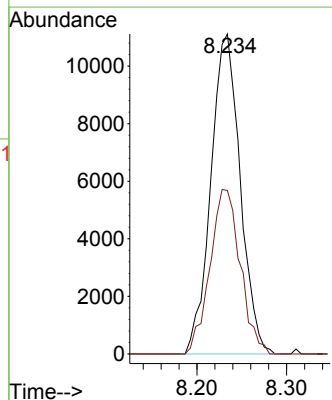
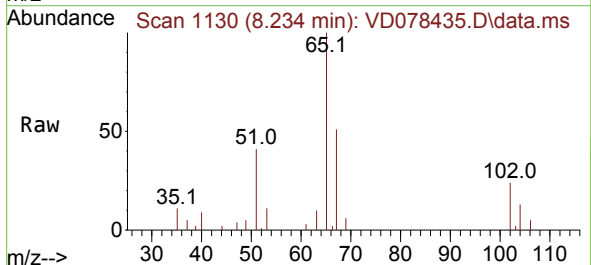


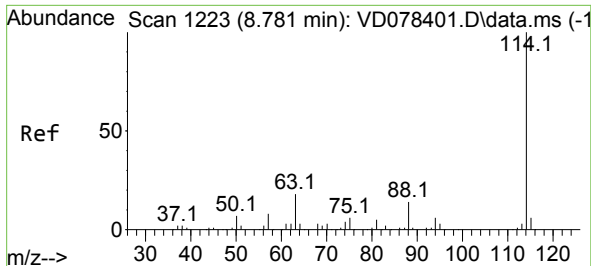
Tgt Ion: 56 Resp: 1285
Ion Ratio Lower Upper
56 100
69 78.8 28.6 43.0#
84 80.5 84.8 127.2#



#33
1,2-Dichloroethane-d4
Concen: 55.529 ug/l
RT: 8.234 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

Tgt Ion: 65 Resp: 25207
Ion Ratio Lower Upper
65 100
67 53.1 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD078435.D

Acq: 15 Feb 2024 14:55

Instrument :

MSVOA_D

ClientSampleId :

RT-2327

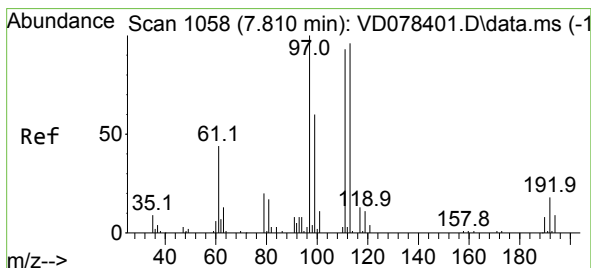
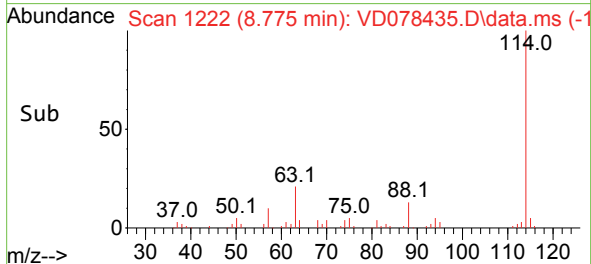
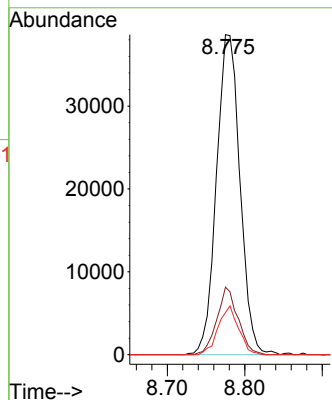
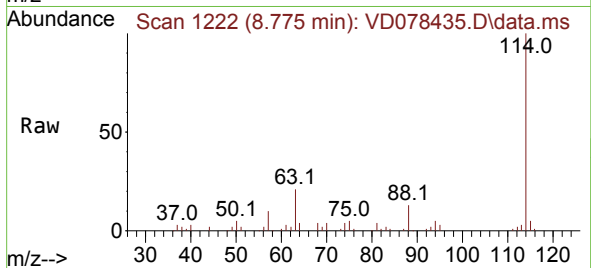
Tgt Ion:114 Resp: 81579

Ion Ratio Lower Upper

114 100

63 21.1 0.0 33.4

88 13.1 0.0 26.2



#35

Dibromofluoromethane

Concen: 53.981 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VD078435.D

Acq: 15 Feb 2024 14:55

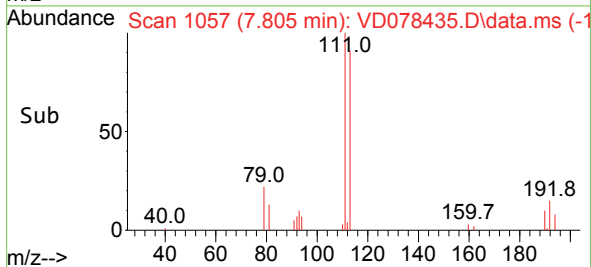
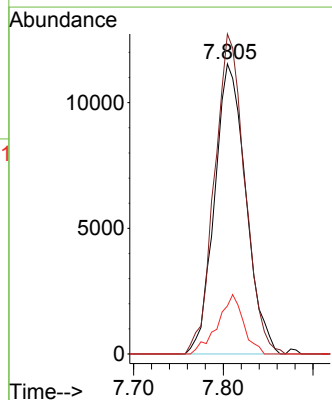
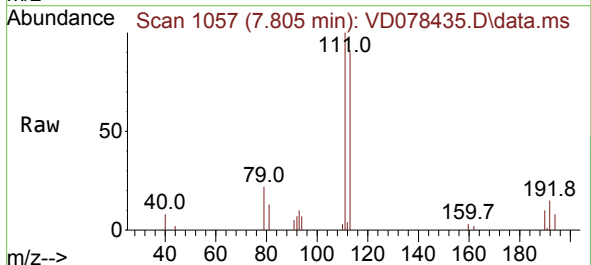
Tgt Ion:113 Resp: 27973

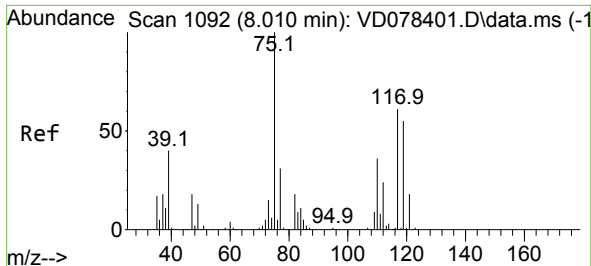
Ion Ratio Lower Upper

113 100

111 106.7 84.7 127.1

192 16.9 16.8 25.2

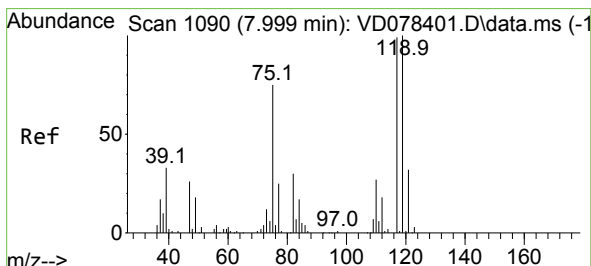
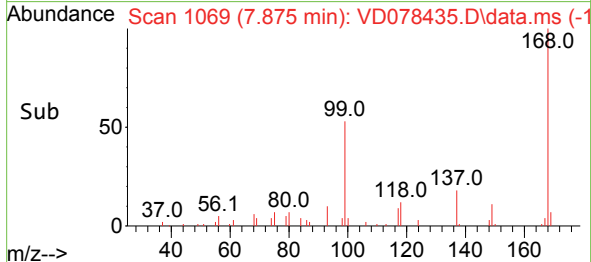
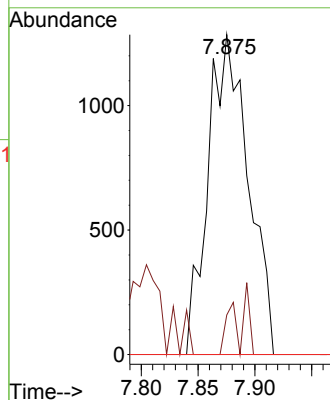
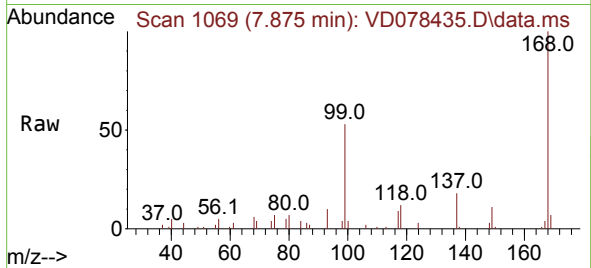




#36
1,1-Dichloropropene
Concen: 3.938 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.135 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

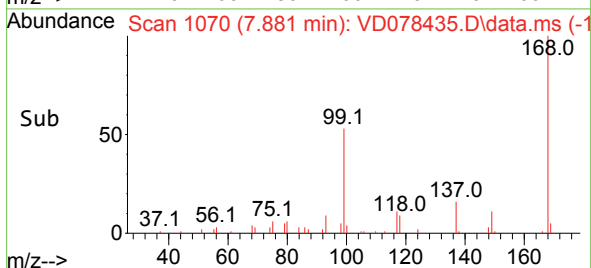
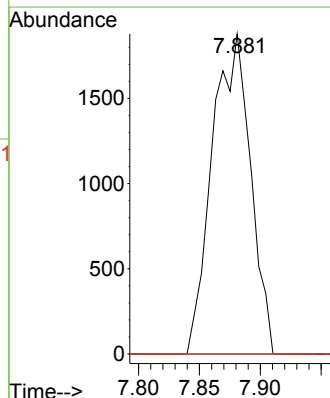
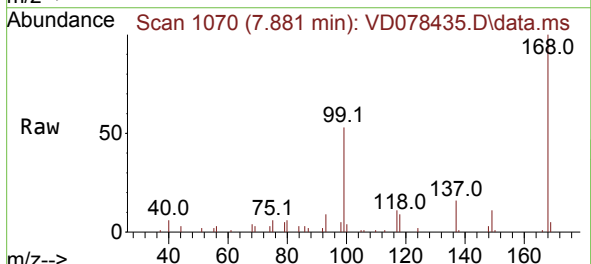
Instrument :
MSVOA_D
ClientSampleId :
RT-2327

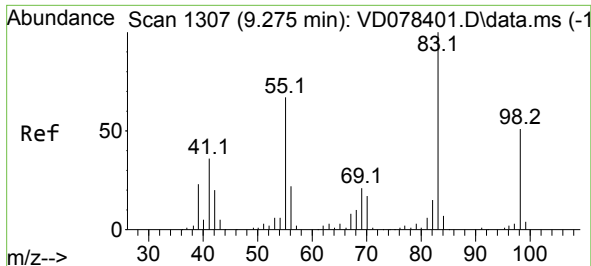
Tgt Ion: 75 Resp: 3170
Ion Ratio Lower Upper
75 100
110 4.1 19.9 59.6#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 5.152 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. -0.118 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

Tgt Ion: 117 Resp: 4107
Ion Ratio Lower Upper
117 100
119 0.0 78.0 117.0#
121 0.0 24.2 36.2#





#39

Methylcyclohexane

Concen: 2.053 ug/l

RT: 9.275 min Scan# 1

Delta R.T. 0.000 min

Lab File: VD078435.D

Acq: 15 Feb 2024 14:55

Instrument :

MSVOA_D

ClientSampleId :

RT-2327

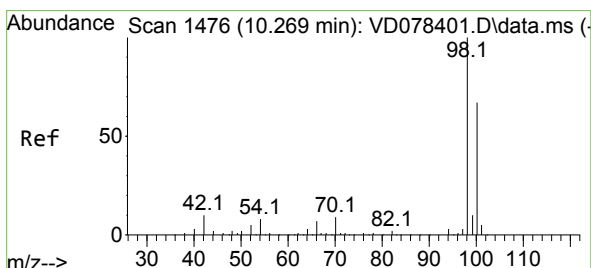
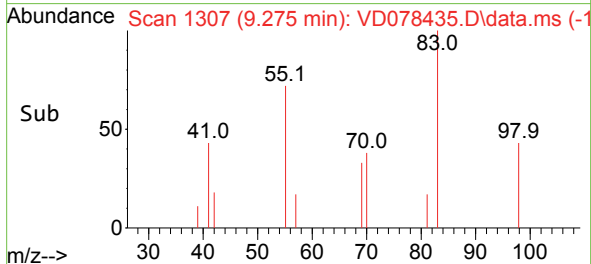
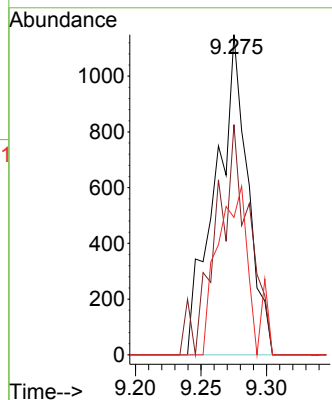
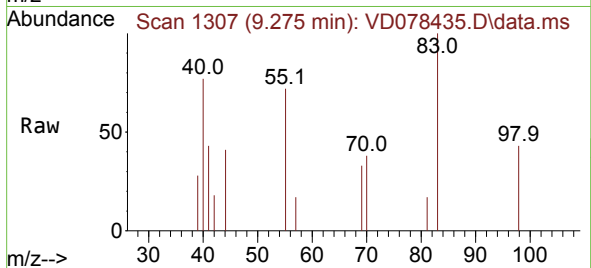
Tgt Ion: 83 Resp: 1962

Ion Ratio Lower Upper

83 100

55 71.9 49.4 74.0

98 42.9 38.4 57.6



#50

Toluene-d8

Concen: 51.382 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD078435.D

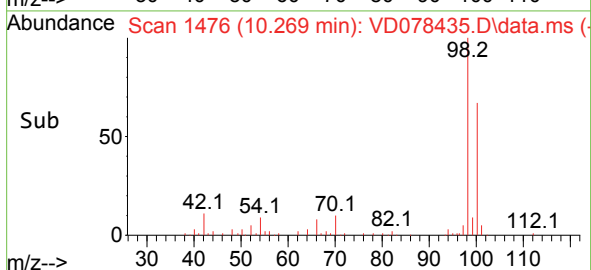
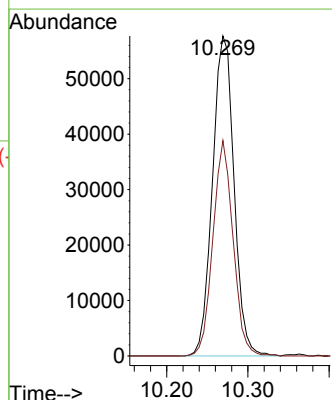
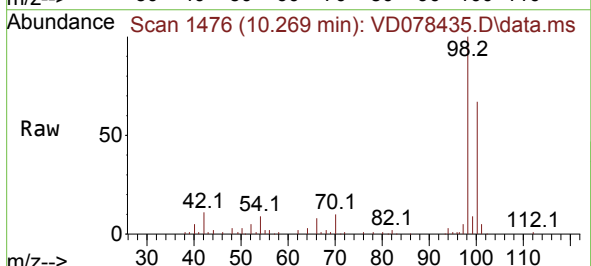
Acq: 15 Feb 2024 14:55

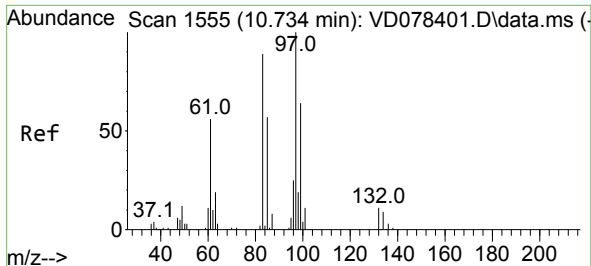
Tgt Ion: 98 Resp: 106512

Ion Ratio Lower Upper

98 100

100 63.0 50.3 75.5

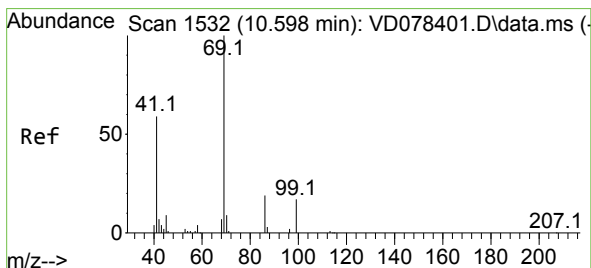
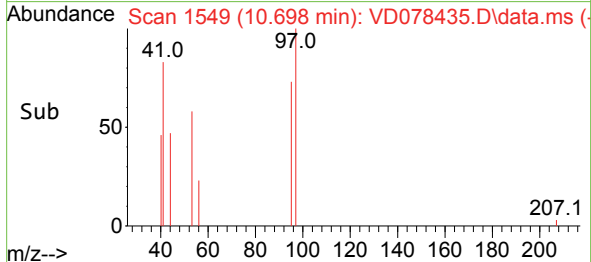
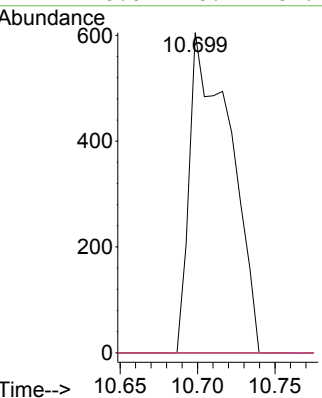
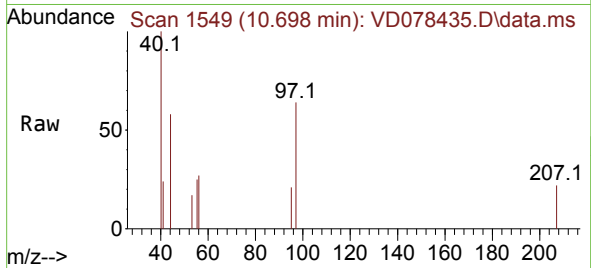




#55
1,1,2-Trichloroethane
Concen: 2.555 ug/l
RT: 10.698 min Scan# 1549
Delta R.T. -0.035 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

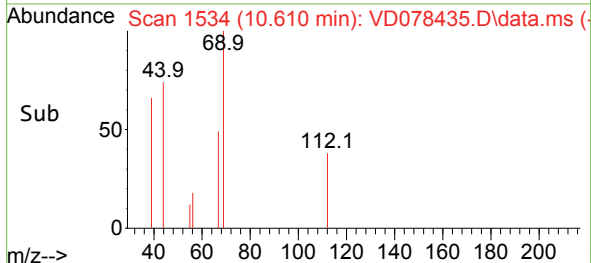
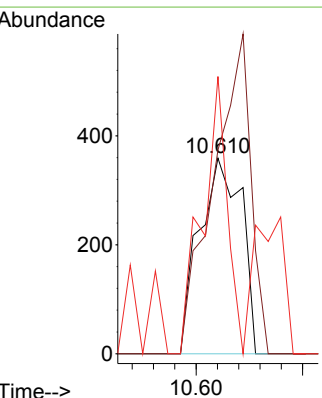
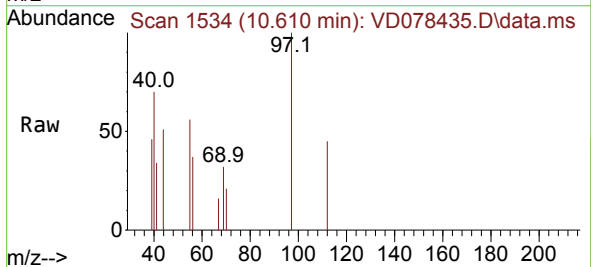
Instrument :
MSVOA_D
ClientSampleId :
RT-2327

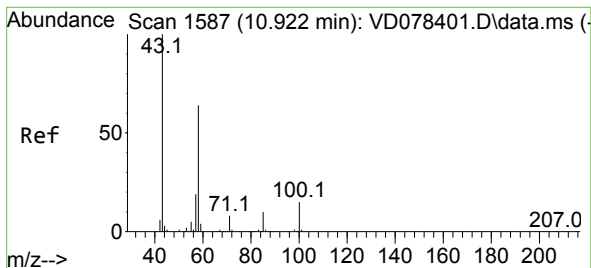
Tgt Ion: 97	Resp: 1105
Ion Ratio	Lower Upper
97	100
83	0.0 65.8 98.6#
85	0.0 45.7 68.5#
99	0.0 46.2 69.4#



#56
Ethyl methacrylate
Concen: 1.240 ug/l
RT: 10.610 min Scan# 1534
Delta R.T. 0.012 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

Tgt Ion: 69	Resp: 496
Ion Ratio	Lower Upper
69	100
41	143.1 39.1 58.7#
39	83.1 20.0 30.0#





#59

2-Hexanone

Concen: 6.381 ug/l

RT: 10.893 min Scan# 11

Delta R.T. -0.029 min

Lab File: VD078435.D

Acq: 15 Feb 2024 14:55

Instrument :

MSVOA_D

ClientSampleId :

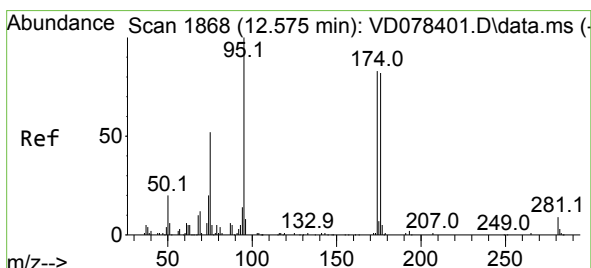
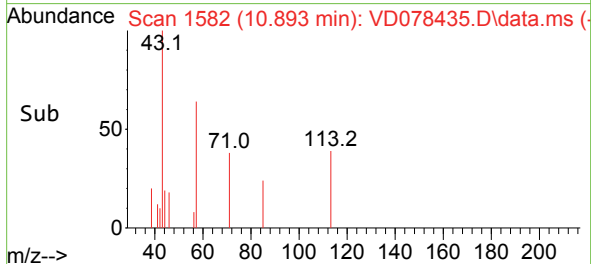
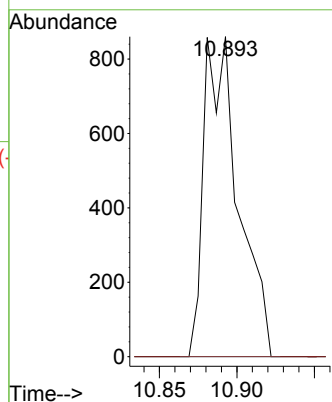
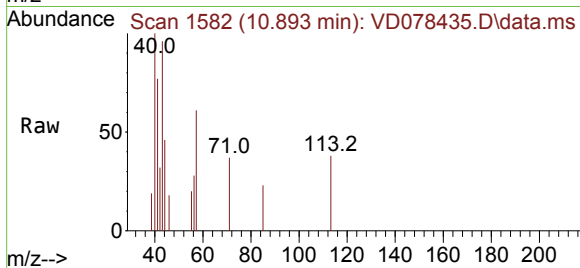
RT-2327

Tgt Ion: 43 Resp: 1330

Ion Ratio Lower Upper

43 100

58 0.0 34.1 102.2#



#62

4-Bromofluorobenzene

Concen: 71.141 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. -0.006 min

Lab File: VD078435.D

Acq: 15 Feb 2024 14:55

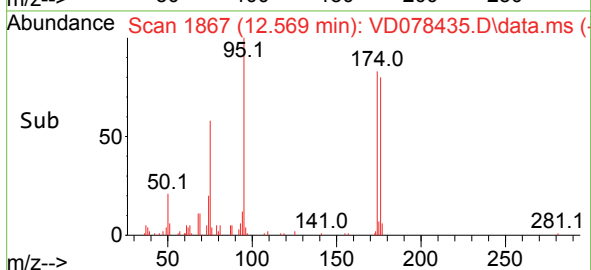
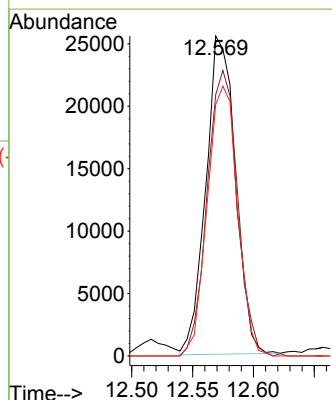
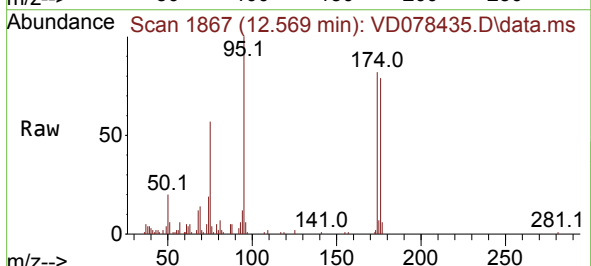
Tgt Ion: 95 Resp: 42915

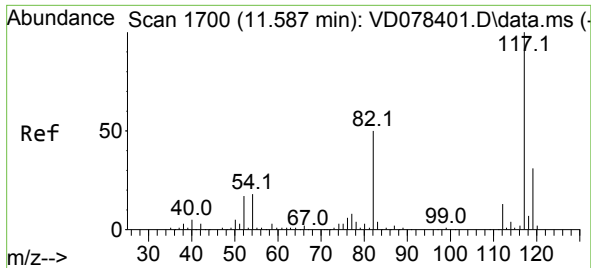
Ion Ratio Lower Upper

95 100

174 92.5 0.0 201.8

176 87.0 0.0 191.8

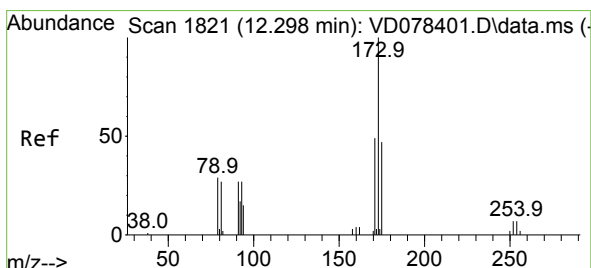
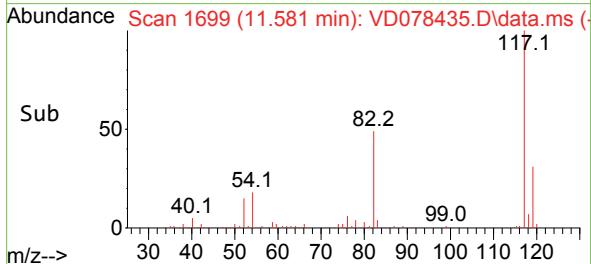
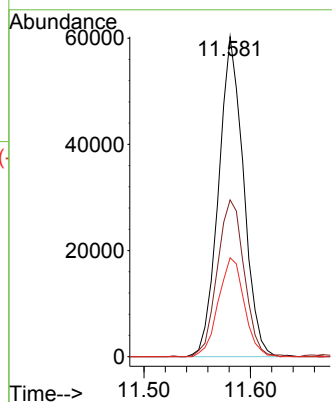
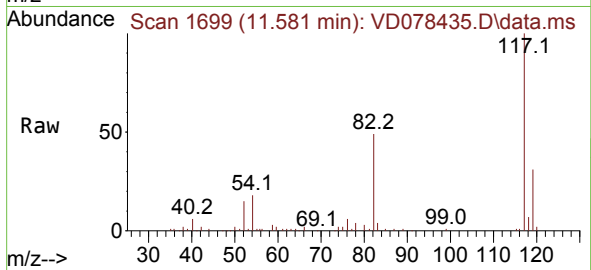




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 117
Delta R.T. -0.006 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

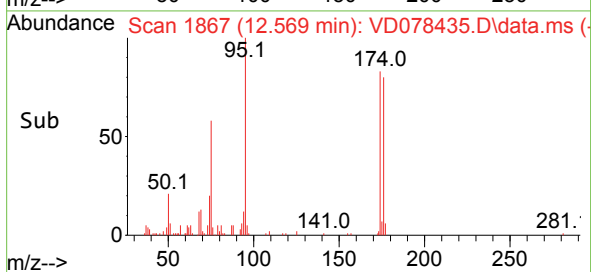
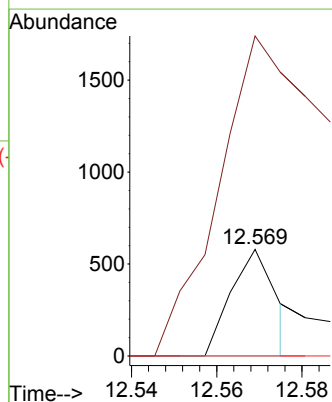
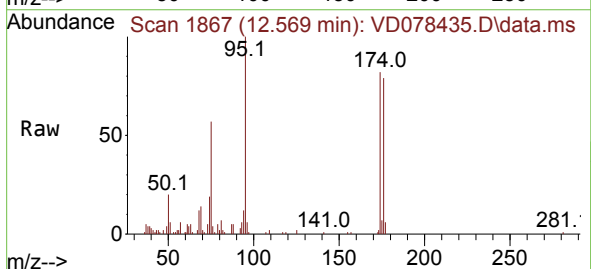
Instrument :
MSVOA_D
ClientSampleId :
RT-2327

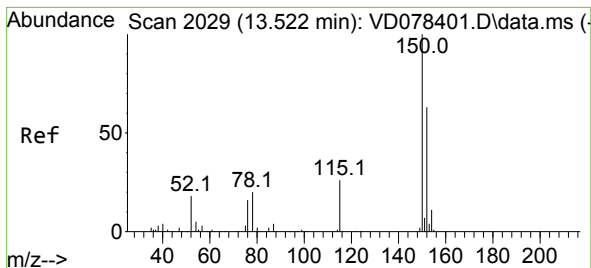
Tgt Ion:117 Resp: 97900
Ion Ratio Lower Upper
117 100
82 49.0 38.3 57.5
119 30.9 25.0 37.4



#71
Bromoform
Concen: 1.122 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.271 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

Tgt Ion:173 Resp: 427
Ion Ratio Lower Upper
173 100
175 445.9 24.6 73.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2029

Delta R.T. -0.006 min

Lab File: VD078435.D

Acq: 15 Feb 2024 14:55

Instrument :

MSVOA_D

ClientSampleId :

RT-2327

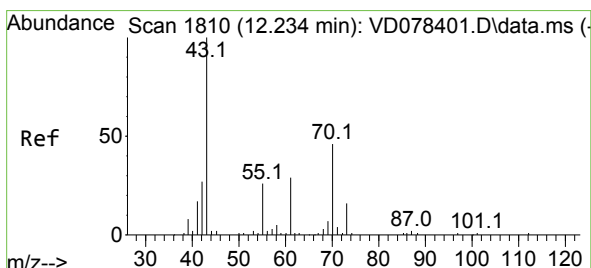
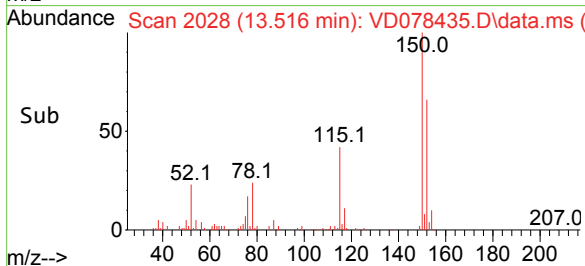
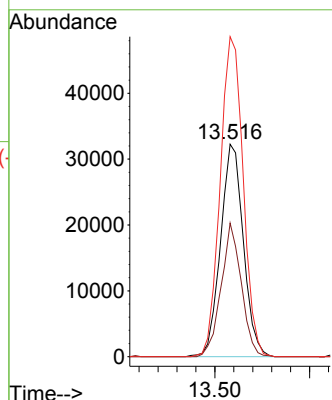
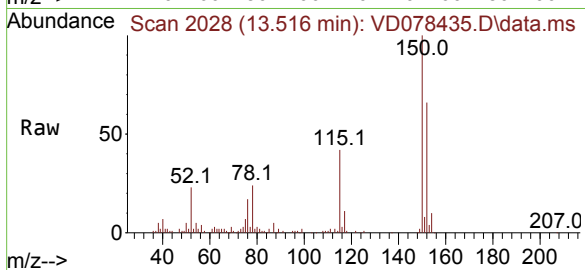
Tgt Ion:152 Resp: 54069

Ion Ratio Lower Upper

152 100

115 55.5 27.1 81.3

150 151.3 0.0 353.6



#74

N-ethyl acetate

Concen: 4.898 ug/l

RT: 12.216 min Scan# 1807

Delta R.T. -0.018 min

Lab File: VD078435.D

Acq: 15 Feb 2024 14:55

Tgt Ion: 43 Resp: 3364

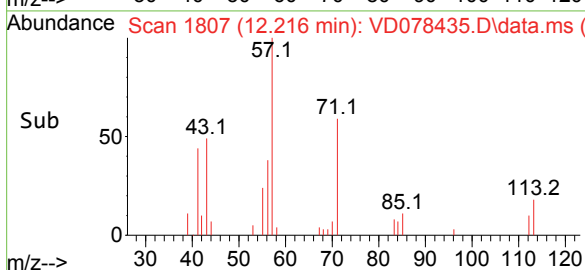
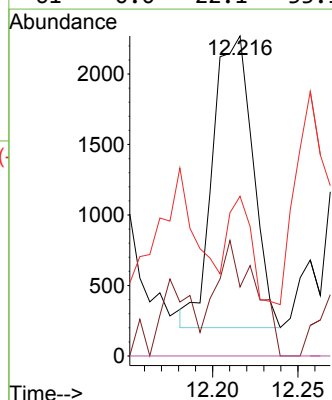
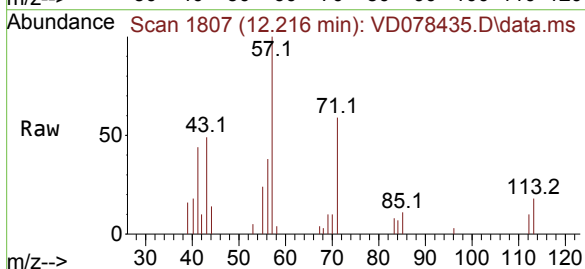
Ion Ratio Lower Upper

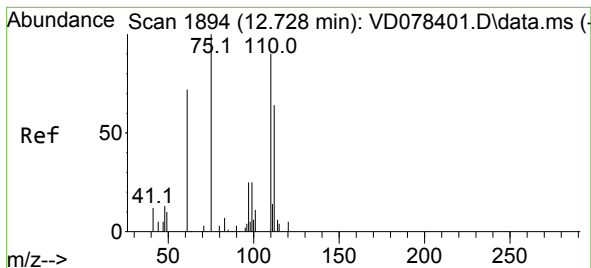
43 100

70 38.8 45.0 67.4#

55 21.3 23.8 35.6#

61 0.0 22.1 33.1#





#76

1,2,3-Trichloropropane

Concen: 49.191 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. -0.159 min

Lab File: VD078435.D

Acq: 15 Feb 2024 14:55

Instrument :

MSVOA_D

ClientSampleId :

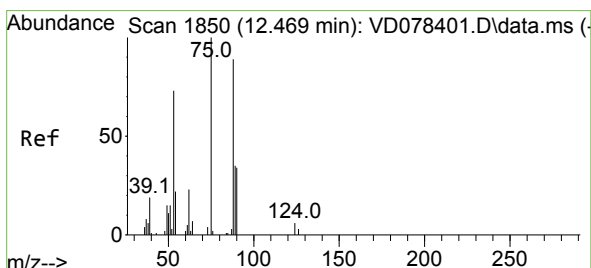
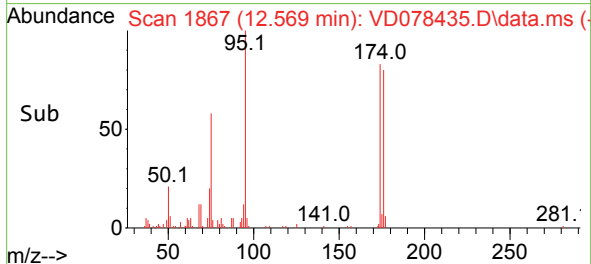
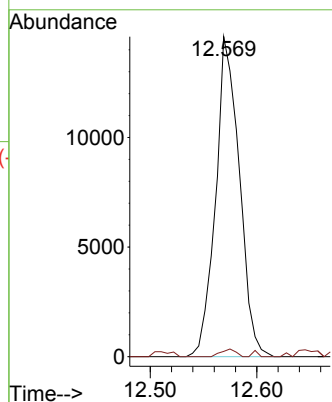
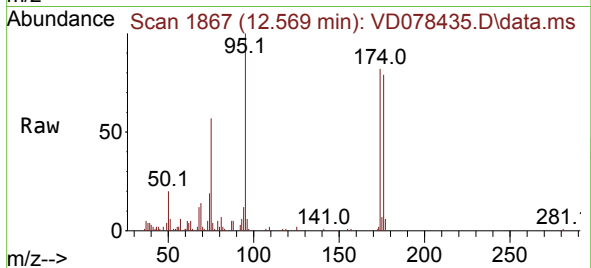
RT-2327

Tgt Ion: 75 Resp: 22580

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 102.121 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. 0.100 min

Lab File: VD078435.D

Acq: 15 Feb 2024 14:55

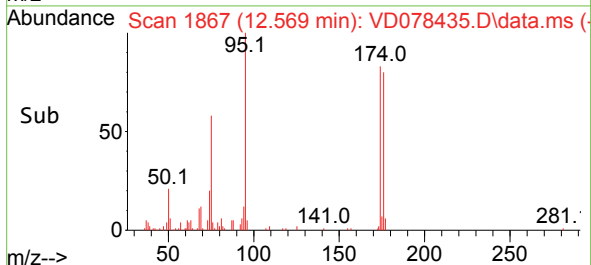
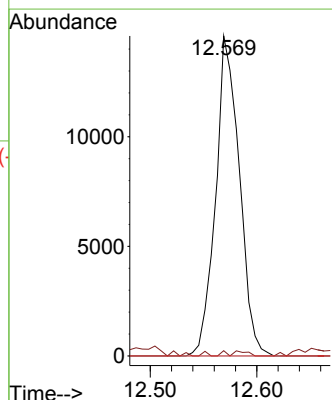
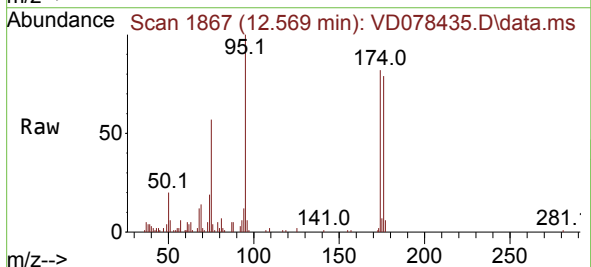
Tgt Ion: 75 Resp: 22580

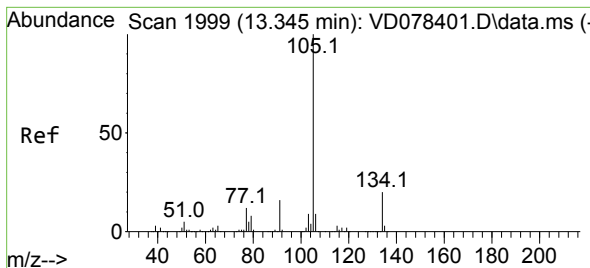
Ion Ratio Lower Upper

75 100

53 0.4 63.0 94.4#

89 0.0 37.9 56.9#





#85

sec-Butylbenzene

Concen: 1.381 ug/l

RT: 13.345 min Scan# 1999

Delta R.T. 0.000 min

Lab File: VD078435.D

Acq: 15 Feb 2024 14:55

Instrument :

MSVOA_D

ClientSampleId :

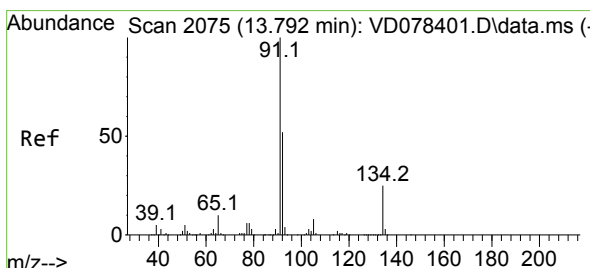
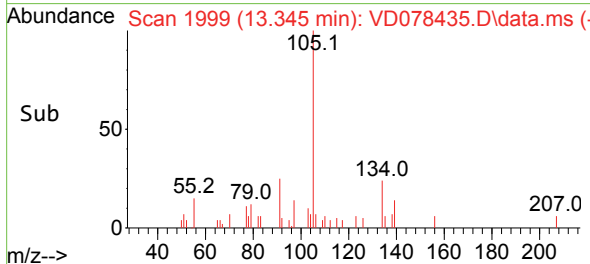
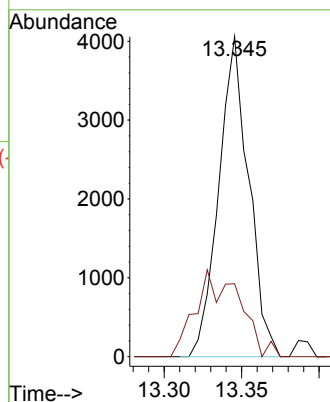
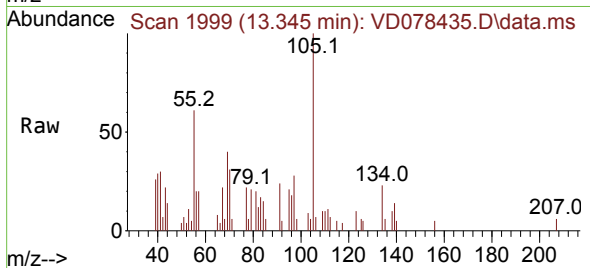
RT-2327

Tgt Ion:105 Resp: 5445

Ion Ratio Lower Upper

105 100

134 39.9 10.9 32.9#



#89

n-Butylbenzene

Concen: 1.757 ug/l

RT: 13.787 min Scan# 2074

Delta R.T. -0.006 min

Lab File: VD078435.D

Acq: 15 Feb 2024 14:55

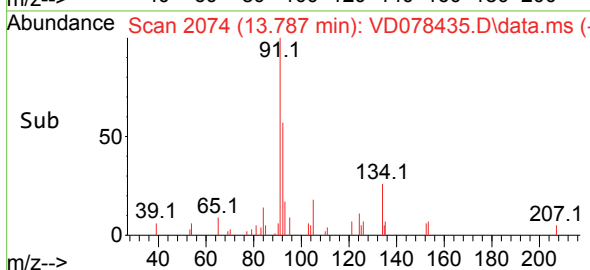
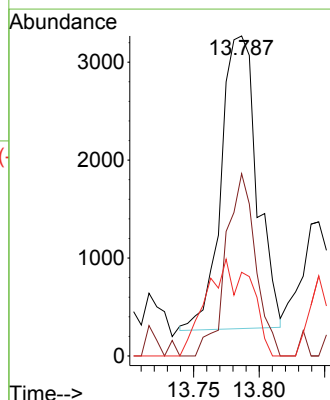
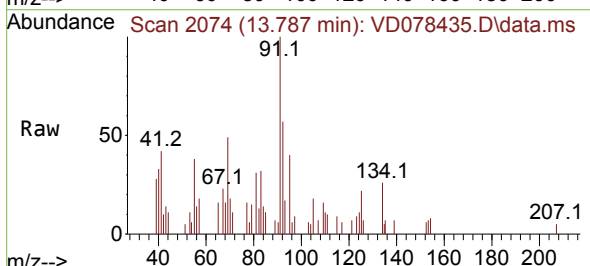
Tgt Ion: 91 Resp: 5689

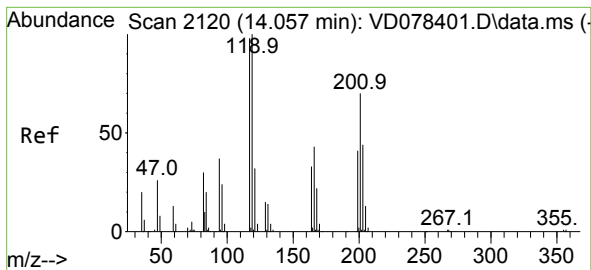
Ion Ratio Lower Upper

91 100

92 51.6 26.5 79.5

134 40.8 13.8 41.3





#90

Hexachloroethane

Concen: 5.708 ug/l

RT: 14.069 min Scan# 2119

Delta R.T. 0.012 min

Lab File: VD078435.D

Acq: 15 Feb 2024 14:55

Instrument :

MSVOA_D

ClientSampleId :

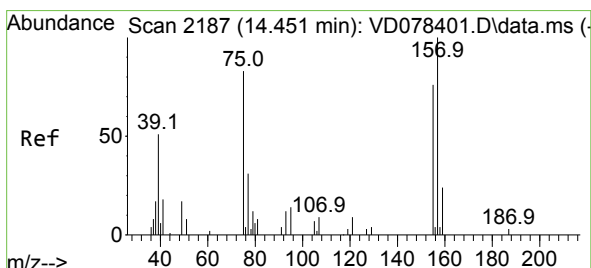
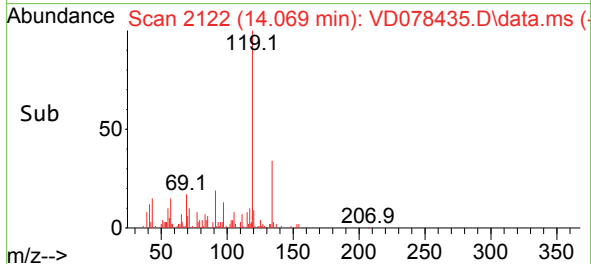
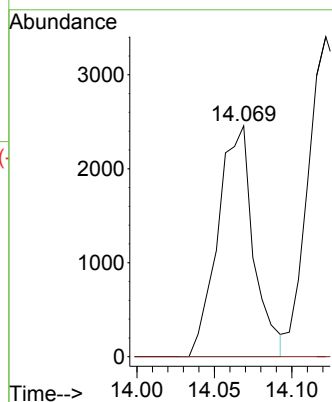
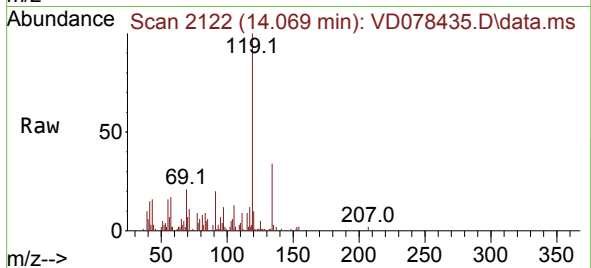
RT-2327

Tgt Ion:117 Resp: 3940

Ion Ratio Lower Upper

117 100

201 0.0 38.5 115.5#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.463 ug/l

RT: 14.469 min Scan# 2190

Delta R.T. 0.018 min

Lab File: VD078435.D

Acq: 15 Feb 2024 14:55

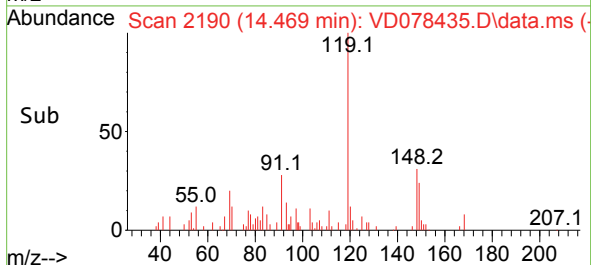
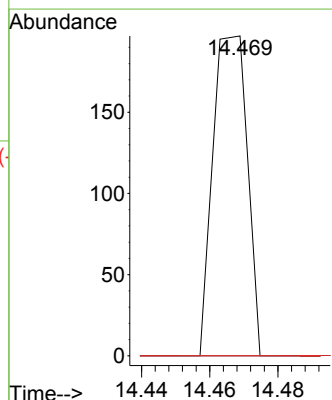
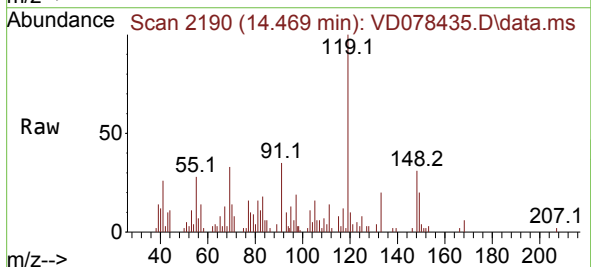
Tgt Ion: 75 Resp: 138

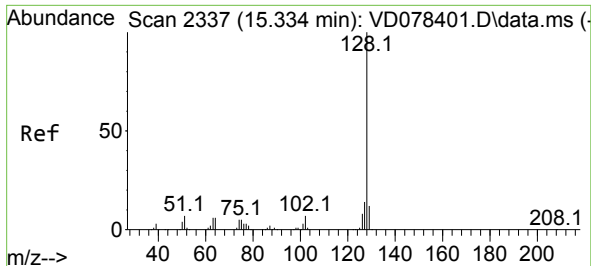
Ion Ratio Lower Upper

75 100

155 0.0 47.9 143.8#

157 0.0 59.9 179.7#

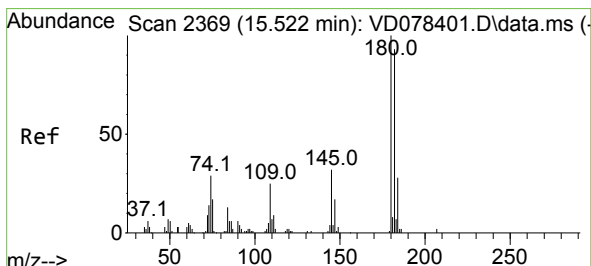
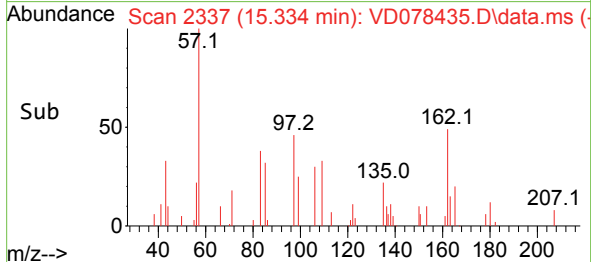
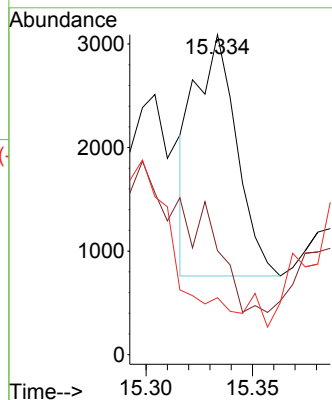
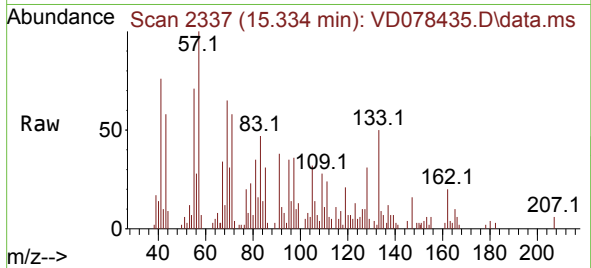




#95
Naphthalene
Concen: 1.927 ug/l
RT: 15.334 min Scan# 213
Delta R.T. 0.000 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

Instrument :
MSVOA_D
ClientSampleId :
RT-2327

Tgt Ion:128 Resp: 3213
Ion Ratio Lower Upper
128 100
127 32.5 10.5 15.7#
129 17.8 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 1.486 ug/l
RT: 15.545 min Scan# 2373
Delta R.T. 0.024 min
Lab File: VD078435.D
Acq: 15 Feb 2024 14:55

Tgt Ion:180 Resp: 1132
Ion Ratio Lower Upper
180 100
182 0.0 47.3 141.9#
145 0.0 15.1 45.3#

