

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD041124\
 Data File : VD078812.D
 Acq On : 11 Apr 2024 13:41
 Operator : RP/MD
 Sample : VIBLK
 Misc : 5.00G/10ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 12 07:17:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM041124SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Apr 12 07:08:03 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	0.000	114	0	0.000	ug/L	-8.78
28) Chlorobenzene-d5	11.581	117	441	25.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	13.510	152	474	25.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	0.000	65	0	0.000	ug/L	
Spiked Amount	25.000	Range	30 - 150	Recovery	=	0.000%#
7) Chloroethane-d5	0.000	69	0	0.000	ug/L	
Spiked Amount	25.000	Range	30 - 150	Recovery	=	0.000%#
11) 1,1-Dichloroethene-d2	0.000	65	0	0.000	ug/L	
Spiked Amount	25.000	Range	45 - 110	Recovery	=	0.000%#
21) 2-Butanone-d5	0.000	46	0	0.000	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.000%#
24) Chloroform-d	0.000	84	0	0.000	ug/L	
Spiked Amount	25.000	Range	40 - 150	Recovery	=	0.000%#
26) 1,2-Dichloroethane-d4	0.000	65	0	0.000	ug/L	
Spiked Amount	25.000	Range	70 - 130	Recovery	=	0.000%#
32) Benzene-d6	8.198	84	118	5.251	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	21.000%
36) 1,2-Dichloropropane-d6	0.000	67	0	0.000	ug/L	
Spiked Amount	25.000	Range	70 - 120	Recovery	=	0.000%#
41) Toluene-d8	10.269	98	486	22.934	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.720%
43) trans-1,3-Dichloroprop...	0.000	79	0	0.000	ug/L	
Spiked Amount	25.000	Range	30 - 135	Recovery	=	0.000%#
47) 2-Hexanone-d5	0.000	63	0	0.000	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.000%#
56) 1,1,2,2-Tetrachloroeth...	12.657	84	241	39.522	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	158.080%#
66) 1,2-Dichlorobenzene-d4	13.510	152	474	29.320	ug/L	-0.31
Spiked Amount	25.000	Range	75 - 120	Recovery	=	117.280%
Target Compounds						
					Qvalue	
33) Benzene	8.251	78	736	29.434	ug/L	100
40) 4-Methyl-2-pentanone	10.169	43	143	48.829	ug/L #	1
42) Toluene	10.334	91	454	16.401	ug/L #	22
44) trans-1,3-Dichloropropene	10.557	75	419	48.553	ug/L	93
48) 2-Hexanone	10.928	43	228	98.921	ug/L #	54
49) Dibromochloromethane	11.069	129	178	27.456	ug/L #	9
50) 1,2-Dibromoethane	11.187	107	73	13.417	ug/L #	7
51) Chlorobenzene	11.598	112	464	24.852	ug/L	93
52) Ethylbenzene	11.675	91	875	30.063	ug/L #	43
53) m,p-Xylene	11.792	106	113	9.856	ug/L	84
54) o-Xylene	12.116	106	321	28.965	ug/L #	19
55) Styrene	12.139	104	1033	52.010	ug/L #	65
57) 1,1,2,2-Tetrachloroethane	12.669	83	123	19.031	ug/L #	26
60) Isopropylbenzene	12.434	105	164	2.734	ug/L #	54
61) 1,2,3-Trichloropropane	13.457	75	259	29.604	ug/L #	36
62) 1,3,5-Trimethylbenzene	12.898	105	786	21.616	ug/L #	84
63) 1,2,4-Trimethylbenzene	12.898	105	786	17.615	ug/L	88
64) 1,3-Dichlorobenzene	13.457	146	1237	41.435	ug/L	79
65) 1,4-Dichlorobenzene	13.539	146	1712	54.227	ug/L #	78

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ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

Quant Time: Apr 12 07:17:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM041124SMA.M
Quant Title : SFAM01.0
QLast Update : Fri Apr 12 07:08:03 2024
Response via : Initial Calibration

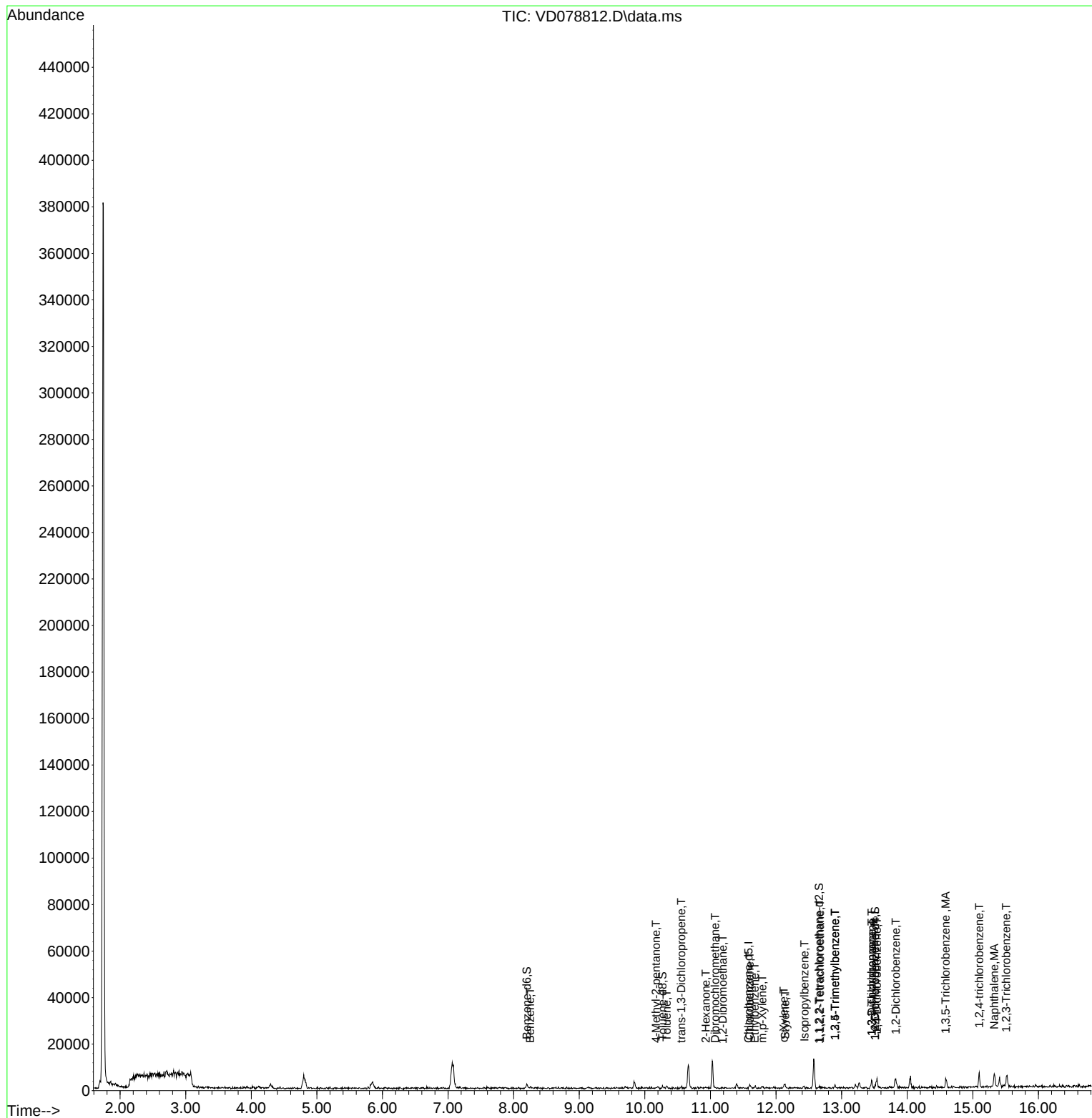
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	13.828	146	1357	48.251	ug/L #	80
69) 1,3,5-Trichlorobenzene	14.586	180	1921	100.060	ug/L #	73
70) 1,2,4-trichlorobenzene	15.098	180	1700	105.001	ug/L #	89
71) Naphthalene	15.328	128	7065	224.819	ug/L #	94
72) 1,2,3-Trichlorobenzene	15.510	180	1137	76.701	ug/L #	1

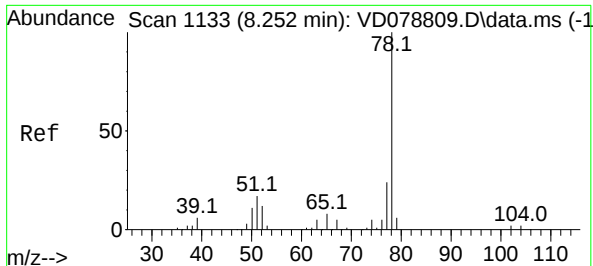
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SFAM01.0
QLast Update : Fri Apr 12 07:08:03 2024
Response via : Initial Calibration

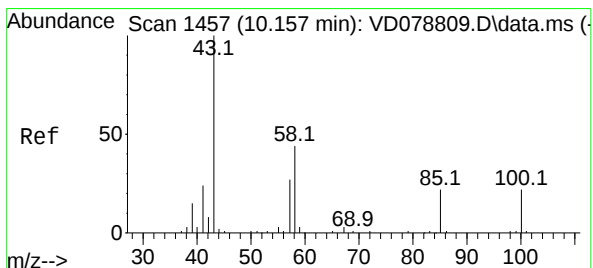
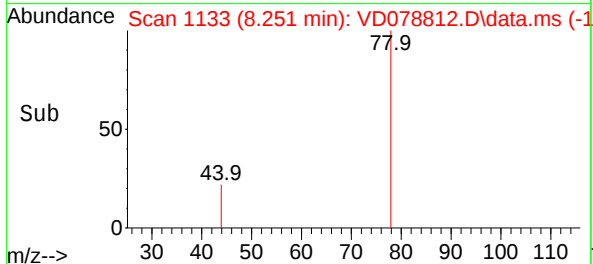
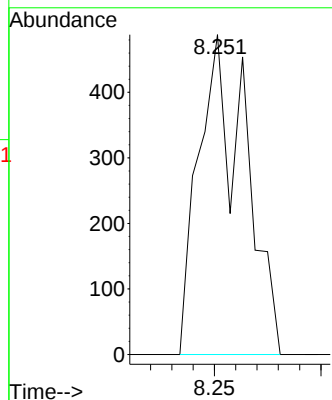
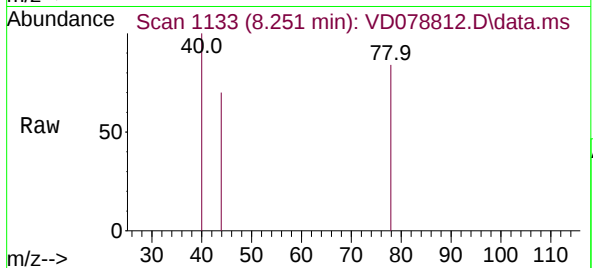




#33
Benzene
Concen: 29.434 ug/L
RT: 8.251 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VD078812.D
Acq: 11 Apr 2024 13:41

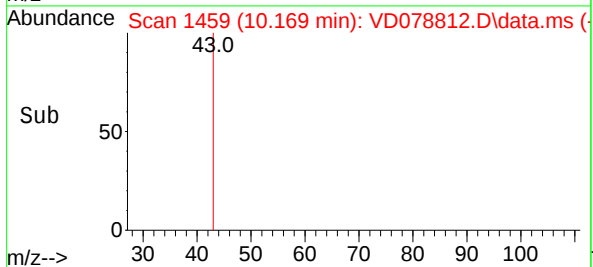
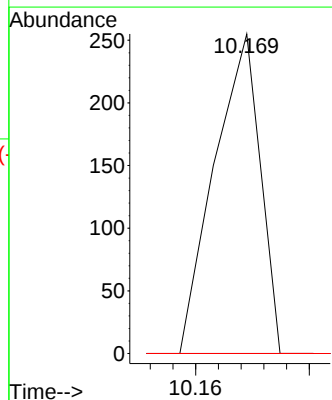
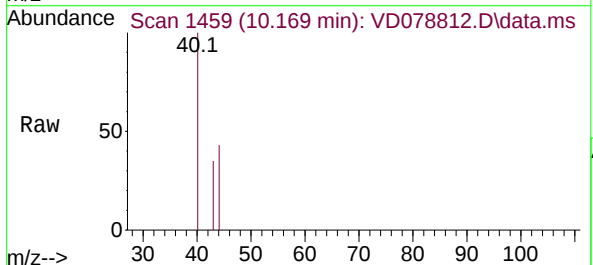
Instrument :
MSVOA_D
ClientSampleId :

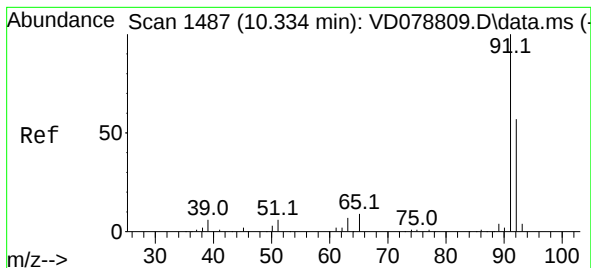
Tgt Ion: 78 Resp: 736



#40
4-Methyl-2-pentanone
Concen: 48.829 ug/L
RT: 10.169 min Scan# 1459
Delta R.T. 0.012 min
Lab File: VD078812.D
Acq: 11 Apr 2024 13:41

Tgt Ion: 43 Resp: 143
Ion Ratio Lower Upper
43 100
58 0.0 36.2 54.2#
100 209.1 18.3 27.5#





#42

Toluene

Concen: 16.401 ug/L

RT: 10.334 min Scan# 1487

Delta R.T. -0.000 min

Lab File: VD078812.D

Acq: 11 Apr 2024 13:41

Instrument :

MSVOA_D

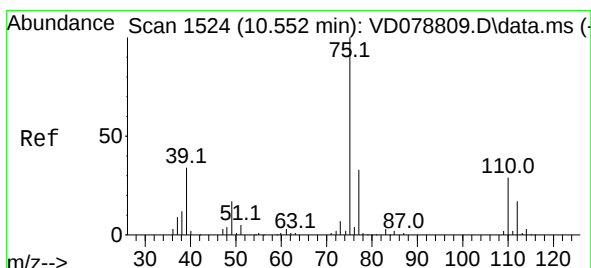
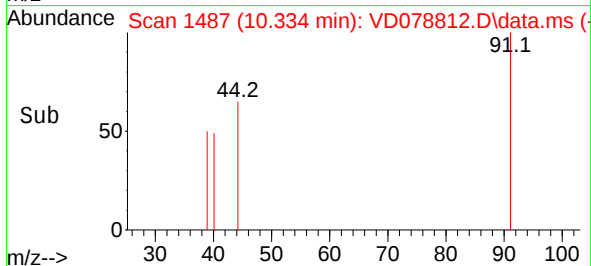
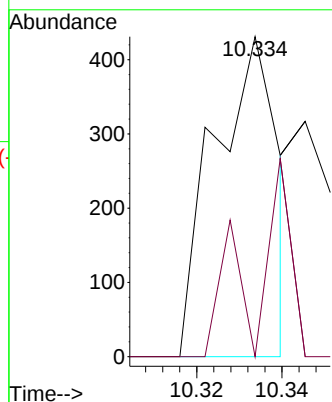
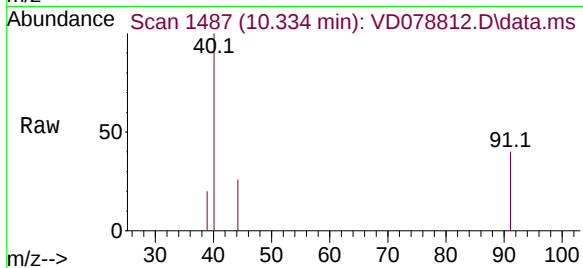
ClientSampleId :

Tgt Ion: 91 Resp: 454

Ion Ratio Lower Upper

91 100

92 0.0 40.1 74.5#



#44

trans-1,3-Dichloropropene

Concen: 48.553 ug/L

RT: 10.557 min Scan# 1525

Delta R.T. 0.006 min

Lab File: VD078812.D

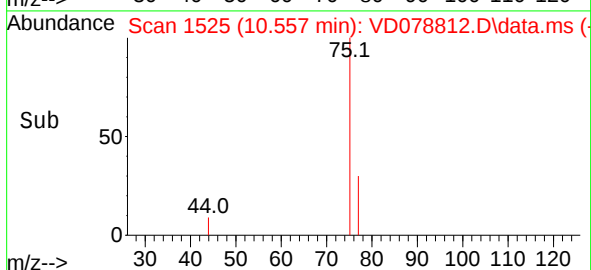
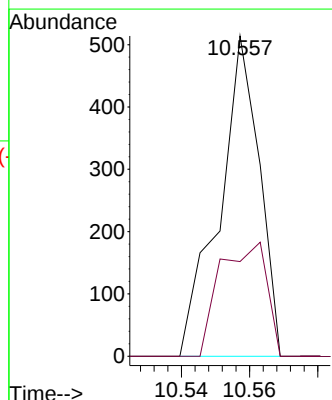
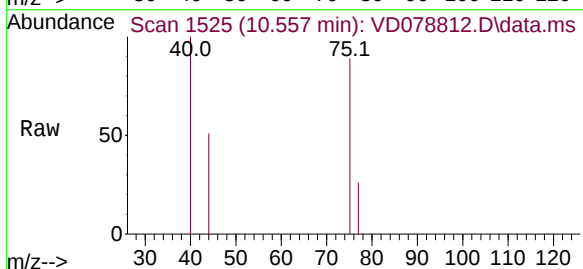
Acq: 11 Apr 2024 13:41

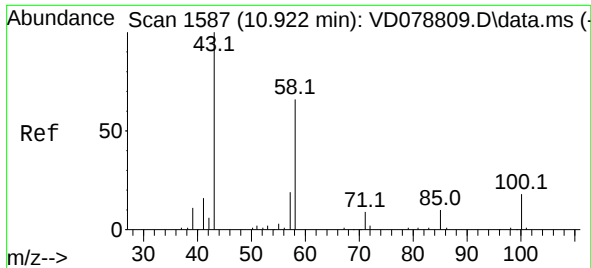
Tgt Ion: 75 Resp: 419

Ion Ratio Lower Upper

75 100

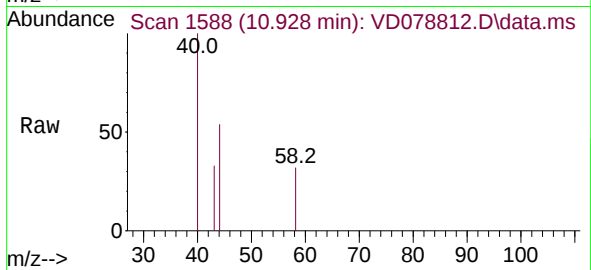
77 29.6 23.4 43.4



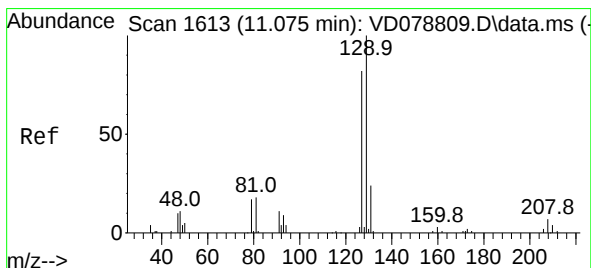
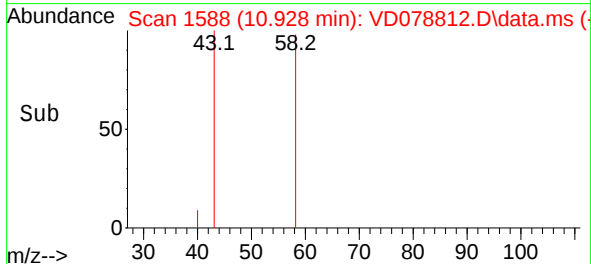
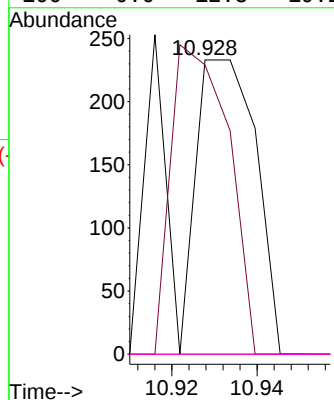


#48
2-Hexanone
Concen: 98.921 ug/L
RT: 10.928 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VD078812.D
Acq: 11 Apr 2024 13:41

Instrument :
MSVOA_D
ClientSampleId :

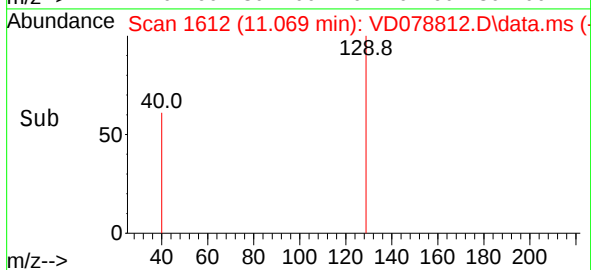
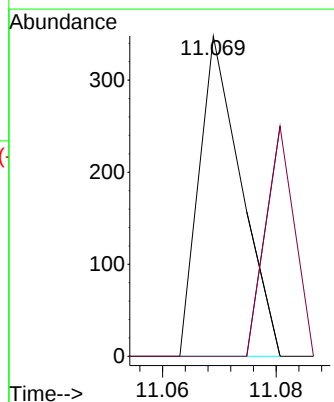
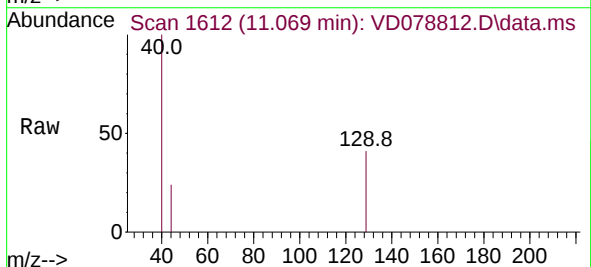


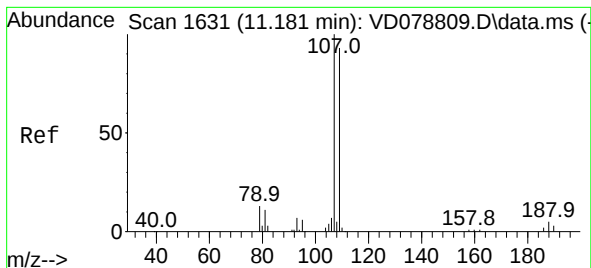
Tgt Ion:	43	58	57	100
Ratio	100	100.9	0.0	0.0
Lower		50.3	16.5	12.8
Upper		75.5#	24.7#	19.2#



#49
Dibromochloromethane
Concen: 27.456 ug/L
RT: 11.069 min Scan# 1612
Delta R.T. -0.006 min
Lab File: VD078812.D
Acq: 11 Apr 2024 13:41

Tgt Ion:	129	127
Ratio	100	0.0
Lower		57.1
Upper		106.1#





#50

1,2-Dibromoethane

Concen: 13.417 ug/L

RT: 11.187 min Scan# 1

Delta R.T. 0.006 min

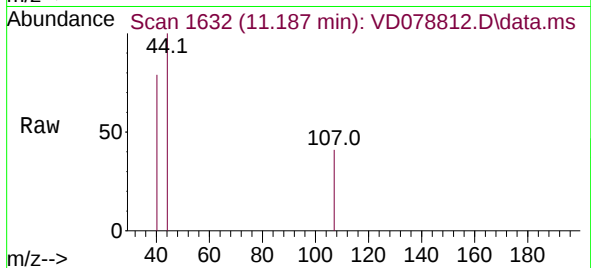
Lab File: VD078812.D

Acq: 11 Apr 2024 13:41

Instrument :

MSVOA_D

ClientSampleId :



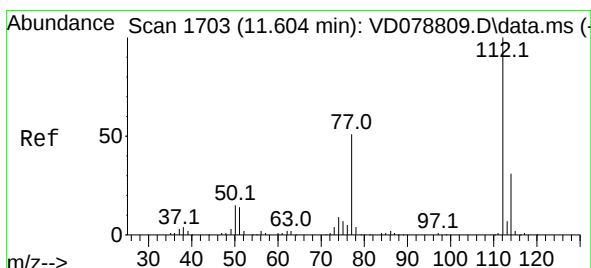
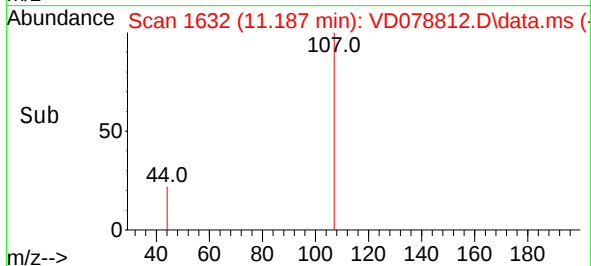
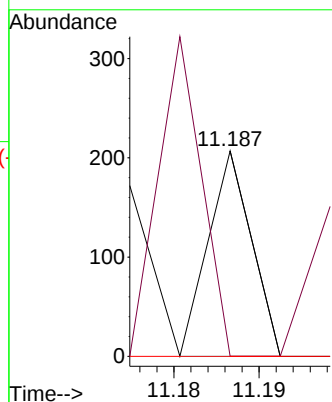
Tgt Ion:107 Resp: 73

Ion Ratio Lower Upper

107 100

109 0.0 64.8 120.4#

188 0.0 3.6 5.4#



#51

Chlorobenzene

Concen: 24.852 ug/L

RT: 11.598 min Scan# 1702

Delta R.T. -0.006 min

Lab File: VD078812.D

Acq: 11 Apr 2024 13:41

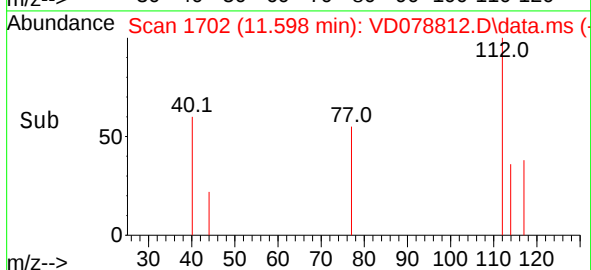
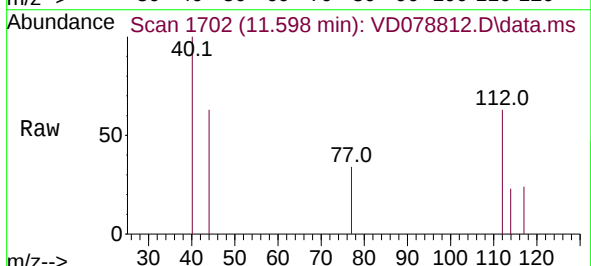
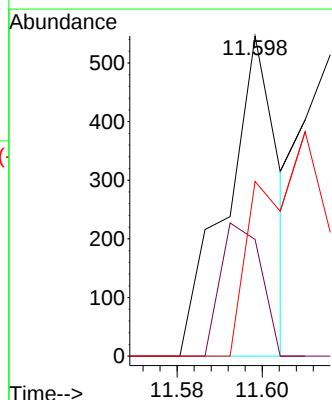
Tgt Ion:112 Resp: 464

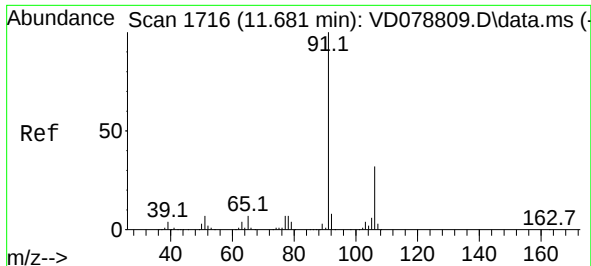
Ion Ratio Lower Upper

112 100

114 36.4 21.7 40.3

77 54.6 41.0 61.6





#52

Ethylbenzene

Concen: 30.063 ug/L

RT: 11.675 min Scan# 1715

Delta R.T. -0.006 min

Lab File: VD078812.D

Acq: 11 Apr 2024 13:41

Instrument :

MSVOA_D

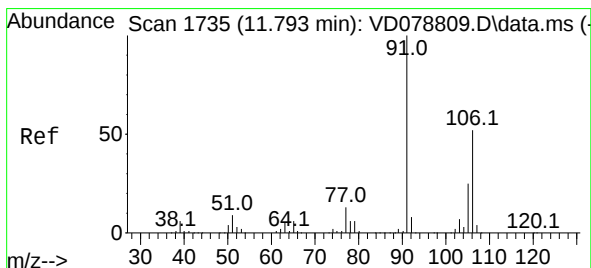
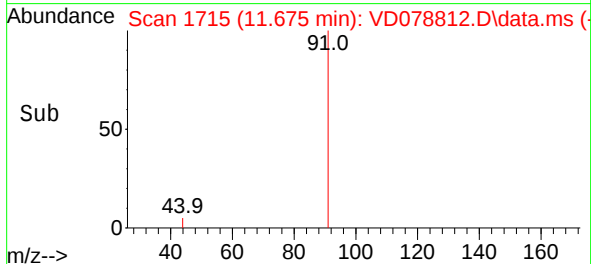
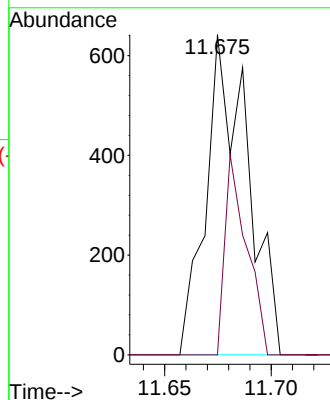
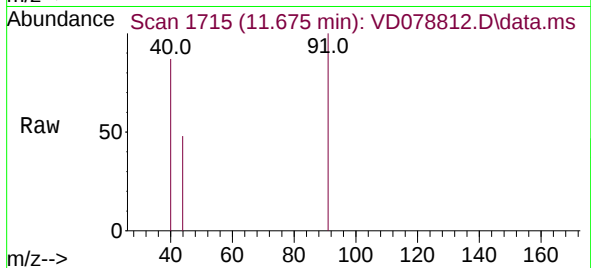
ClientSampleId :

Tgt Ion: 91 Resp: 875

Ion Ratio Lower Upper

91 100

106 0.0 22.3 41.3#



#53

m,p-Xylene

Concen: 9.856 ug/L

RT: 11.792 min Scan# 1735

Delta R.T. -0.000 min

Lab File: VD078812.D

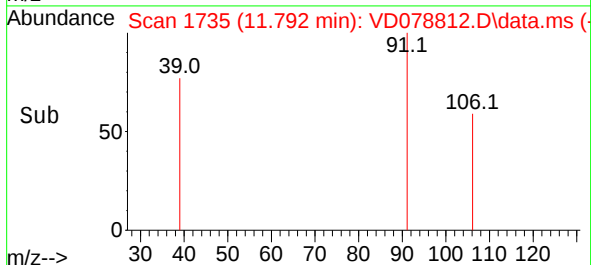
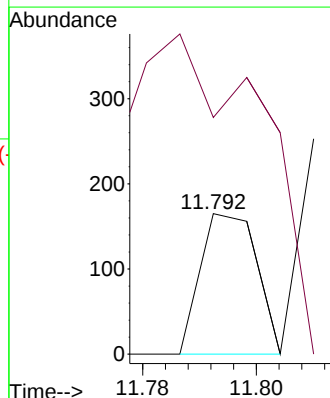
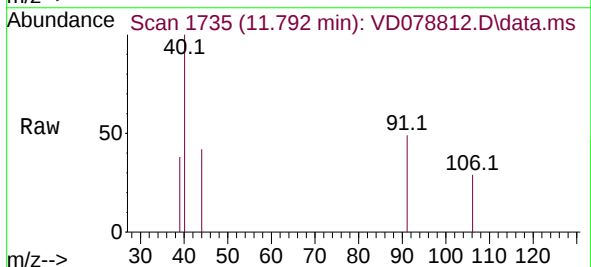
Acq: 11 Apr 2024 13:41

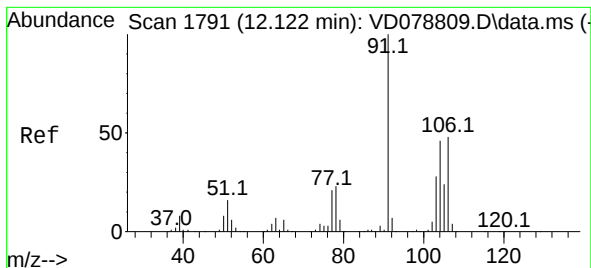
Tgt Ion: 106 Resp: 113

Ion Ratio Lower Upper

106 100

91 168.5 134.4 249.6

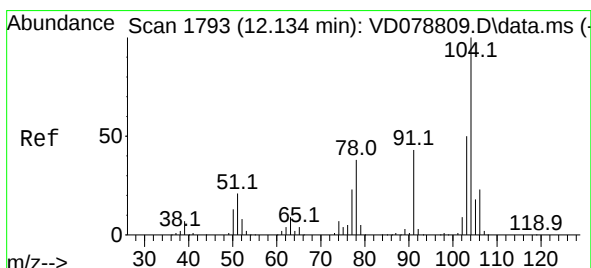
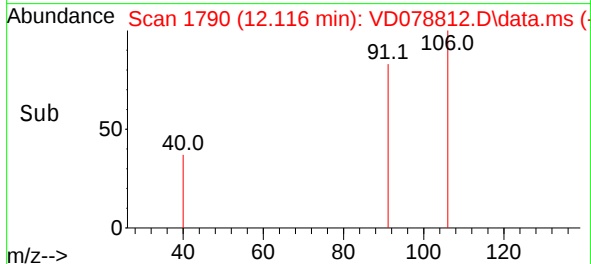
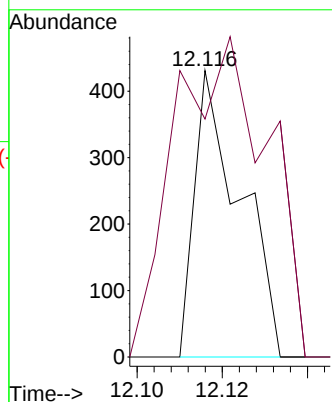
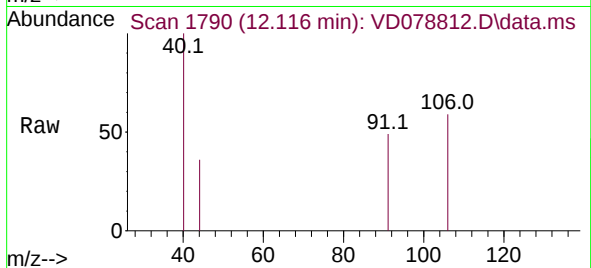




#54
o-Xylene
Concen: 28.965 ug/L
RT: 12.116 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VD078812.D
Acq: 11 Apr 2024 13:41

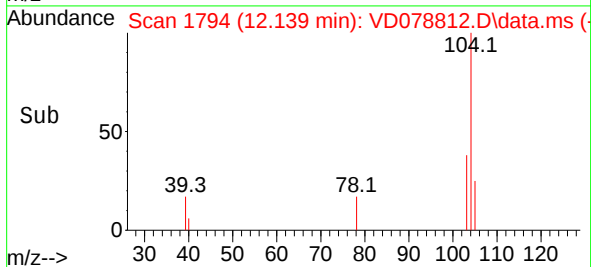
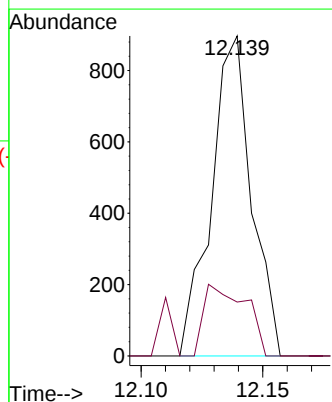
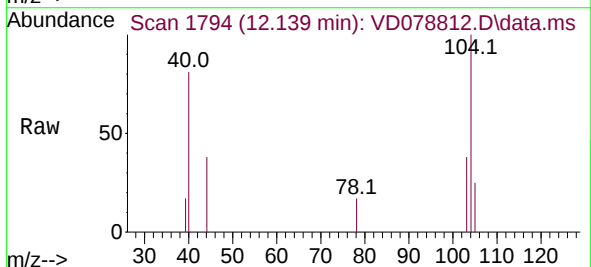
Instrument :
MSVOA_D
ClientSampleId :

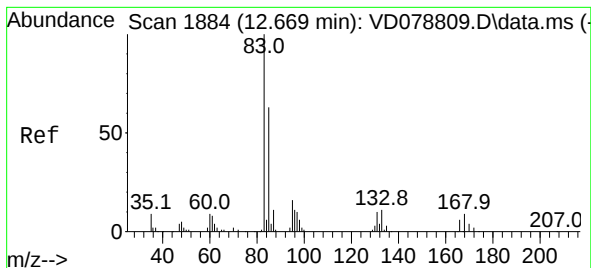
Tgt Ion:106 Resp: 321
Ion Ratio Lower Upper
106 100
91 83.1 146.2 271.6#



#55
Styrene
Concen: 52.010 ug/L
RT: 12.139 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VD078812.D
Acq: 11 Apr 2024 13:41

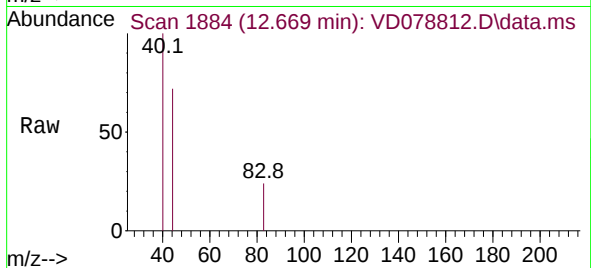
Tgt Ion:104 Resp: 1033
Ion Ratio Lower Upper
104 100
78 16.8 26.4 49.0#



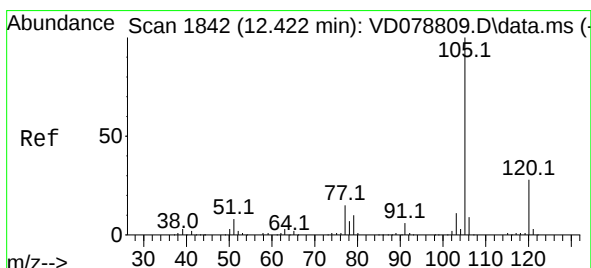
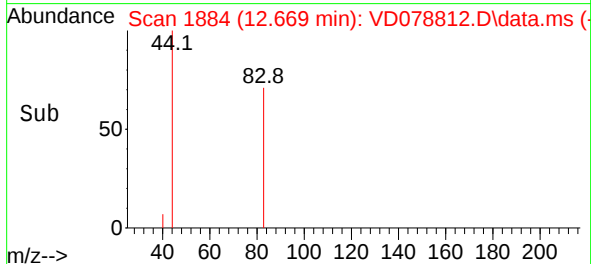
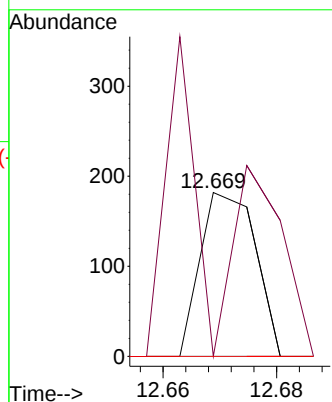


#57
1,1,2,2-Tetrachloroethane
Concen: 19.031 ug/L
RT: 12.669 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VD078812.D
Acq: 11 Apr 2024 13:41

Instrument :
MSVOA_D
ClientSampleId :

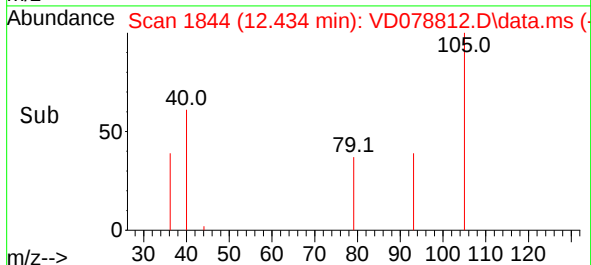
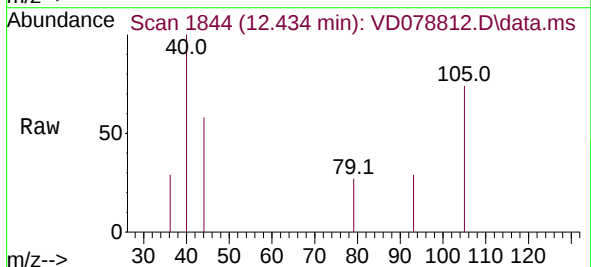


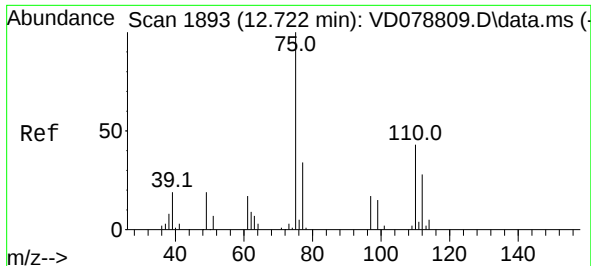
Tgt Ion: 83 Resp: 123
Ion Ratio Lower Upper
83 100
85 0.0 44.5 82.7#
131 0.0 8.1 12.1#



#60
Isopropylbenzene
Concen: 2.734 ug/L
RT: 12.434 min Scan# 1844
Delta R.T. 0.012 min
Lab File: VD078812.D
Acq: 11 Apr 2024 13:41

Tgt Ion:105 Resp: 164
Ion Ratio Lower Upper
105 100
120 0.0 21.6 32.4#
77 0.0 11.4 17.2#





#61

1,2,3-Trichloropropane

Concen: 29.604 ug/L

RT: 13.457 min Scan# 20

Delta R.T. 0.735 min

Lab File: VD078812.D

Acq: 11 Apr 2024 13:41

Instrument :

MSVOA_D

ClientSampleId :

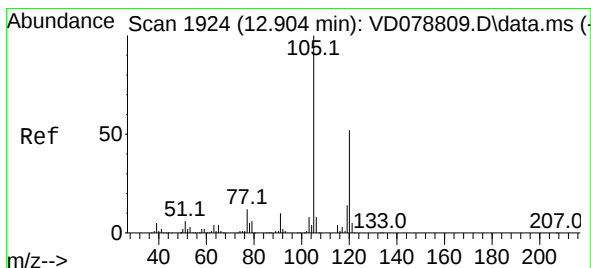
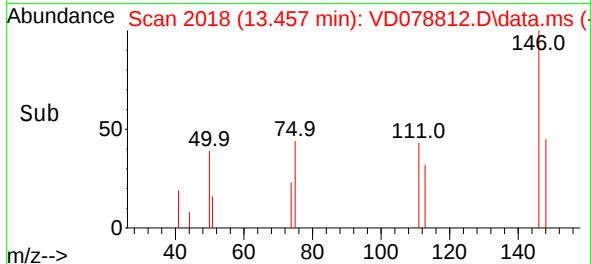
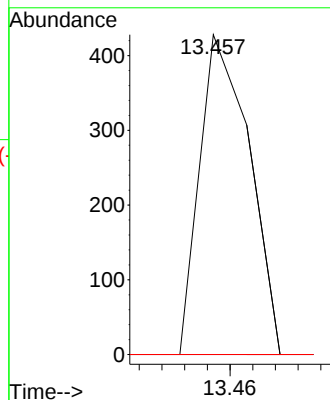
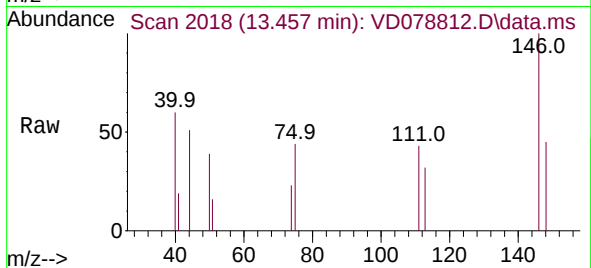
Tgt Ion: 75 Resp: 259

Ion Ratio Lower Upper

75 100

77 0.0 26.9 40.3#

110 0.0 34.6 51.8#



#62

1,3,5-Trimethylbenzene

Concen: 21.616 ug/L

RT: 12.898 min Scan# 1923

Delta R.T. -0.006 min

Lab File: VD078812.D

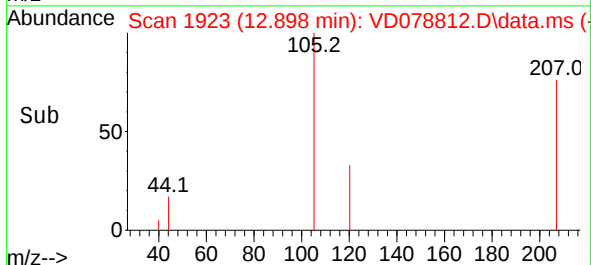
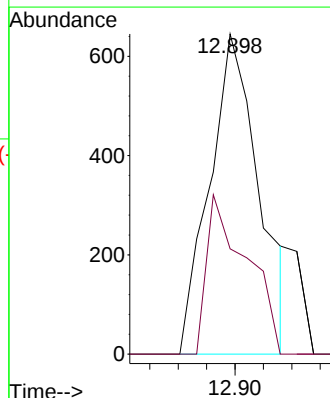
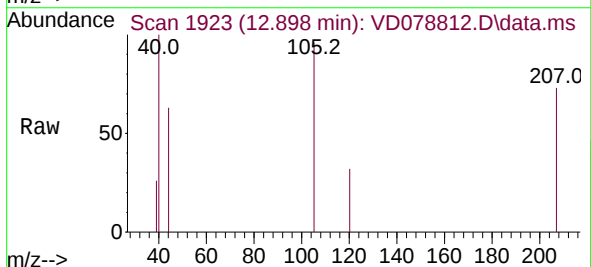
Acq: 11 Apr 2024 13:41

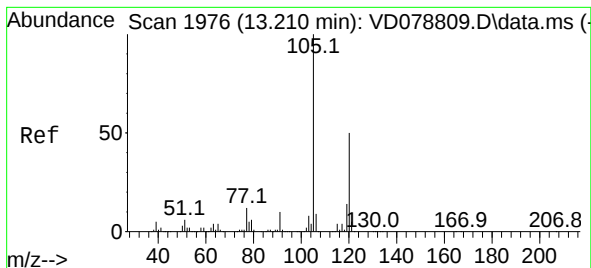
Tgt Ion:105 Resp: 786

Ion Ratio Lower Upper

105 100

120 40.2 41.2 61.8#





#63

1,2,4-Trimethylbenzene

Concen: 17.615 ug/L

RT: 12.898 min Scan# 1976

Delta R.T. -0.312 min

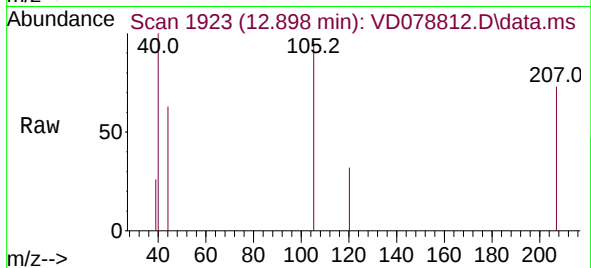
Lab File: VD078812.D

Acq: 11 Apr 2024 13:41

Instrument :

MSVOA_D

ClientSampleId :

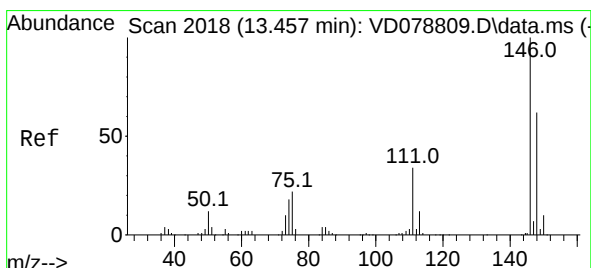
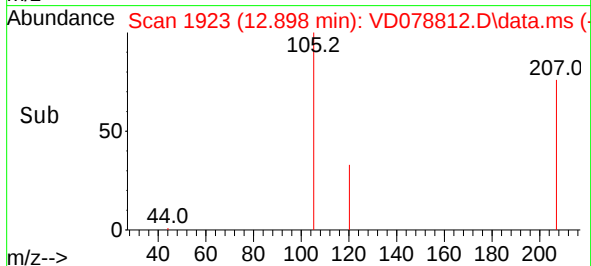
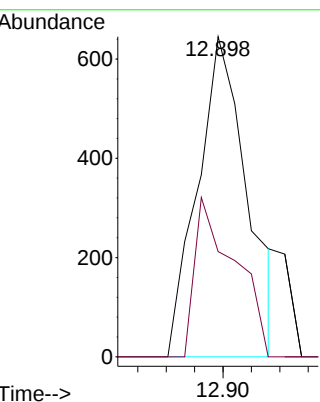


Tgt Ion:105 Resp: 786

Ion Ratio Lower Upper

105 100

120 40.2 38.6 57.8



#64

1,3-Dichlorobenzene

Concen: 41.435 ug/L

RT: 13.457 min Scan# 2018

Delta R.T. -0.000 min

Lab File: VD078812.D

Acq: 11 Apr 2024 13:41

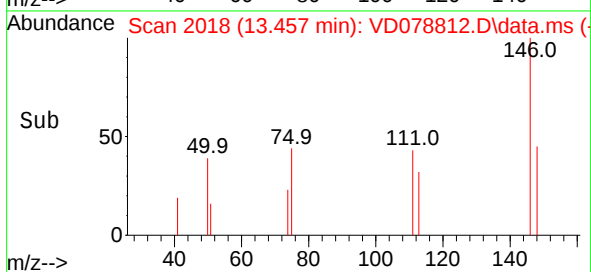
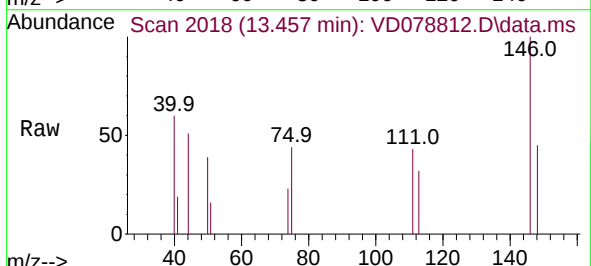
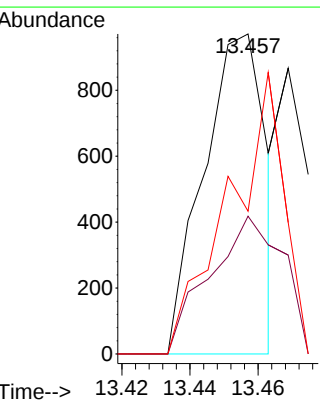
Tgt Ion:146 Resp: 1237

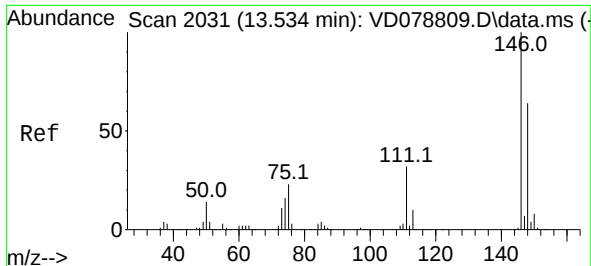
Ion Ratio Lower Upper

146 100

111 43.0 23.7 44.1

148 44.6 43.6 81.0





#65

1,4-Dichlorobenzene

Concen: 54.227 ug/L

RT: 13.539 min Scan# 2031

Delta R.T. 0.006 min

Lab File: VD078812.D

Acq: 11 Apr 2024 13:41

Instrument :

MSVOA_D

ClientSampleId :

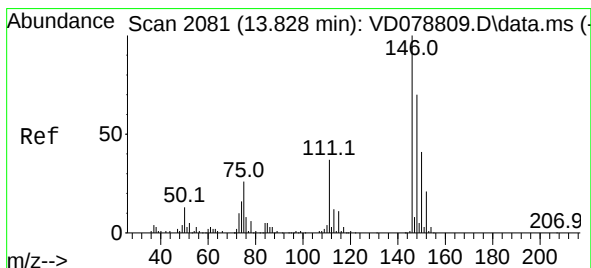
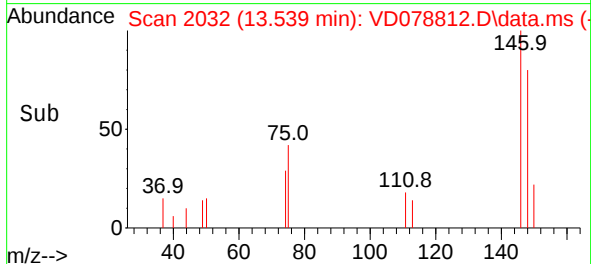
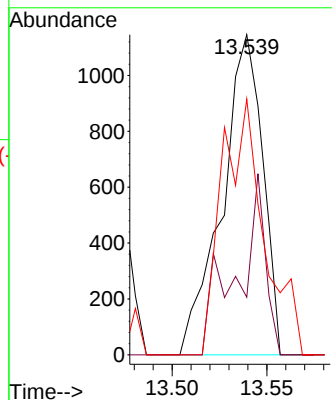
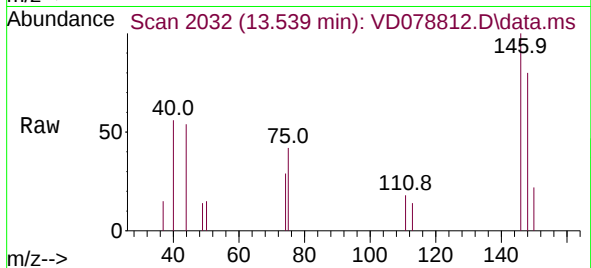
Tgt Ion:146 Resp: 1712

Ion Ratio Lower Upper

146 100

111 18.0 22.7 42.3#

148 79.9 44.9 83.5



#67

1,2-Dichlorobenzene

Concen: 48.251 ug/L

RT: 13.828 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VD078812.D

Acq: 11 Apr 2024 13:41

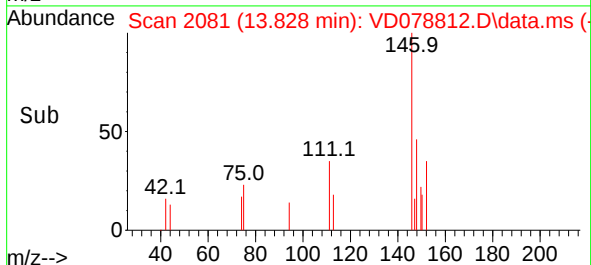
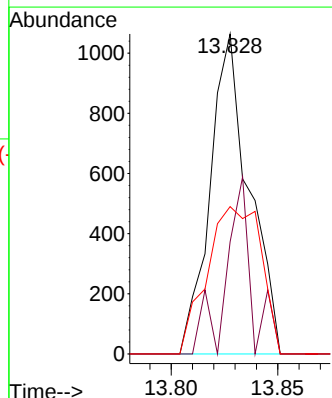
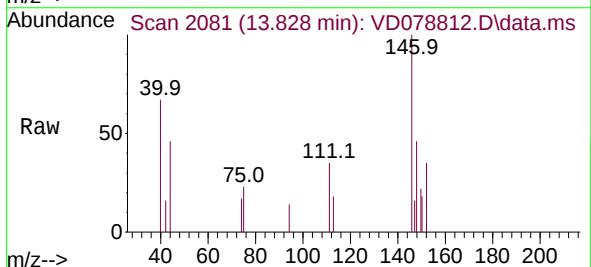
Tgt Ion:146 Resp: 1357

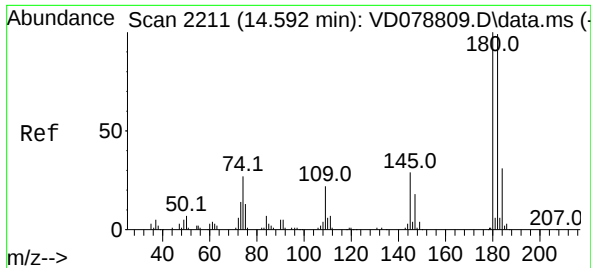
Ion Ratio Lower Upper

146 100

111 35.1 29.5 44.3

148 46.1 55.7 83.5#





#69

1,3,5-Trichlorobenzene

Concen: 100.060 ug/L

RT: 14.586 min Scan# 2211

Delta R.T. -0.006 min

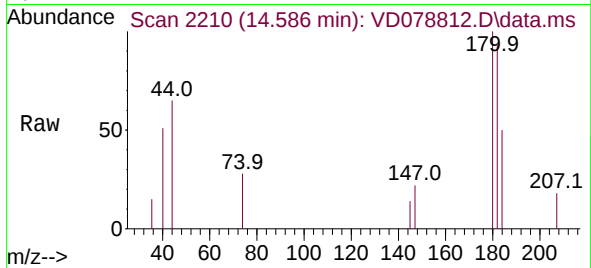
Lab File: VD078812.D

Acq: 11 Apr 2024 13:41

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:180 Resp: 1921

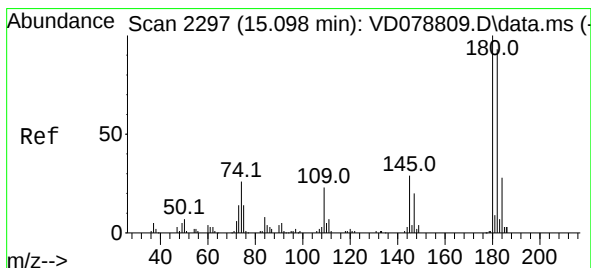
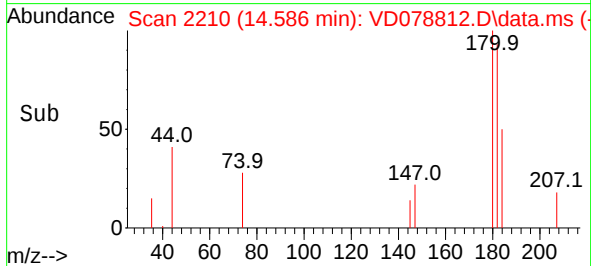
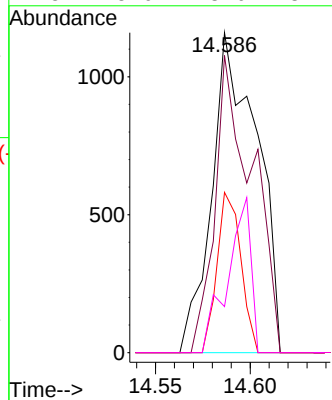
Ion Ratio Lower Upper

180 100

182 56.3 76.0 114.0#

184 26.4 24.5 36.7

145 25.0 23.0 34.6



#70

1,2,4-trichlorobenzene

Concen: 105.001 ug/L

RT: 15.098 min Scan# 2297

Delta R.T. -0.000 min

Lab File: VD078812.D

Acq: 11 Apr 2024 13:41

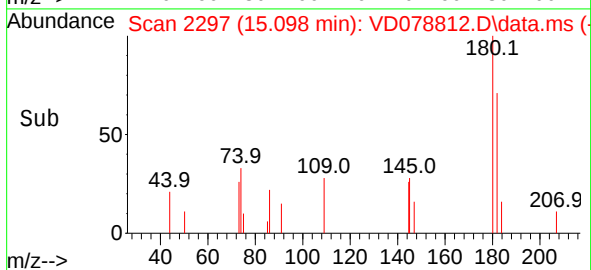
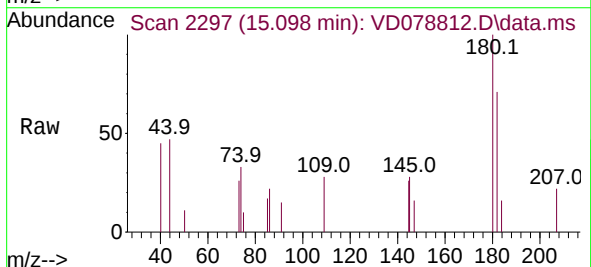
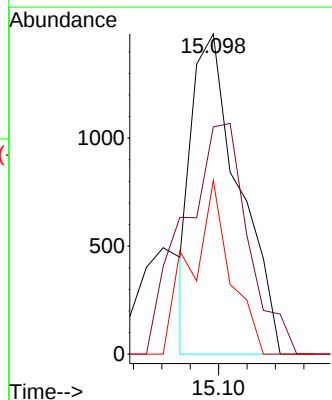
Tgt Ion:180 Resp: 1700

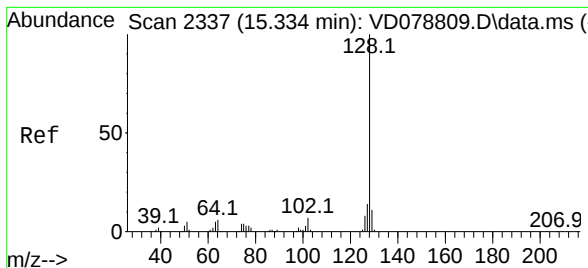
Ion Ratio Lower Upper

180 100

182 98.2 74.7 112.1

145 45.5 22.6 33.8#

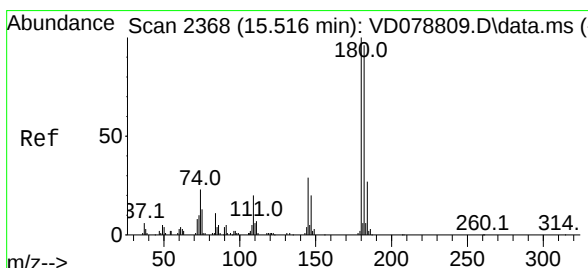
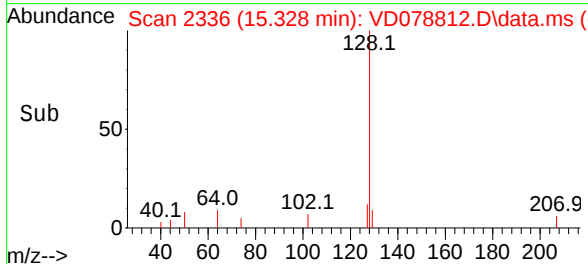
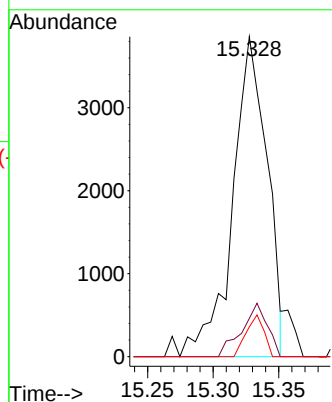
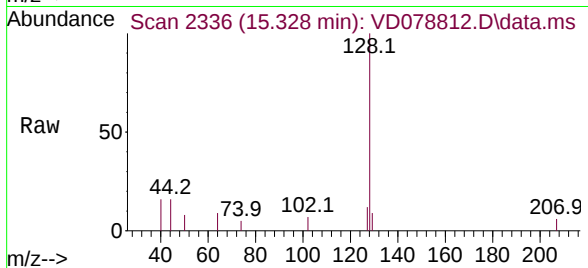




#71
Naphthalene
Concen: 224.819 ug/L
RT: 15.328 min Scan# 2336
Delta R.T. -0.006 min
Lab File: VD078812.D
Acq: 11 Apr 2024 13:41

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:128 Resp: 7065
Ion Ratio Lower Upper
128 100
127 12.4 10.5 15.7
129 6.7 8.8 13.2#



#72
1,2,3-Trichlorobenzene
Concen: 76.701 ug/L
RT: 15.510 min Scan# 2367
Delta R.T. -0.006 min
Lab File: VD078812.D
Acq: 11 Apr 2024 13:41

Tgt Ion:180 Resp: 1137
Ion Ratio Lower Upper
180 100
182 228.2 78.1 117.1#
145 74.8 24.4 36.6#

