

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051724\
 Data File : VD078961.D
 Acq On : 17 May 2024 12:15
 Operator : RP/MD
 Sample : VIBLK
 Misc : 5.00G/10ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 18 01:00:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM051724SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat May 18 00:53:45 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.775	114	155974	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	156946	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.516	152	72346	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.275	65	89876	23.506	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.040%
7) Chloroethane-d5	2.805	69	99589	24.332	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.320%
11) 1,1-Dichloroethene-d2	3.917	65	17931	24.041	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	96.160%
21) 2-Butanone-d5	6.993	46	27872	51.500	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.000%
24) Chloroform-d	7.563	84	101783	21.920	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	87.680%
26) 1,2-Dichloroethane-d4	8.228	65	50986	23.122	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.480%
32) Benzene-d6	8.199	84	196462	24.533	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.120%
36) 1,2-Dichloropropane-d6	9.210	67	59966	24.576	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.320%
41) Toluene-d8	10.269	98	173343	23.483	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.920%
43) trans-1,3-Dichloroprop...	10.522	79	25798	22.952	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.800%
47) 2-Hexanone-d5	10.881	63	23673	48.408	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.820%
56) 1,1,2,2-Tetrachloroeth...	12.651	84	65288	23.521	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.080%
66) 1,2-Dichlorobenzene-d4	13.816	152	62466	25.439	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	101.760%
Target Compounds						
					Qvalue	
6) Bromomethane	2.699	94	1442	0.322	ug/L	89
16) Methylene chloride	4.805	84	7644	2.069	ug/L	92
25) Chloroform	7.587	83	2326	0.420	ug/L	91
37) 1,2-Dichloropropane	9.210	63	6158	2.259	ug/L #	85
39) cis-1,3-Dichloropropene	9.981	75	1620	0.379	ug/L	99
44) trans-1,3-Dichloropropene	10.528	75	1479	0.391	ug/L #	39
51) Chlorobenzene	11.604	112	1714	0.205	ug/L	87
55) Styrene	12.134	104	1469	0.167	ug/L	90
60) Isopropylbenzene	12.422	105	1298	0.121	ug/L	96
62) 1,3,5-Trimethylbenzene	12.904	105	1218	0.154	ug/L	98
63) 1,2,4-Trimethylbenzene	12.904	105	1218	0.152	ug/L	92
64) 1,3-Dichlorobenzene	13.457	146	1959	0.377	ug/L	90
65) 1,4-Dichlorobenzene	13.534	146	2185	0.390	ug/L	86
67) 1,2-Dichlorobenzene	13.822	146	1935	0.394	ug/L #	52
69) 1,3,5-Trichlorobenzene	15.522	180	2562	0.759	ug/L	94
70) 1,2,4-Trichlorobenzene	15.087	180	892	0.312	ug/L #	1
71) Naphthalene	15.334	128	6391	1.097	ug/L #	90
72) 1,2,3-Trichlorobenzene	15.522	180	2562	0.960	ug/L #	90

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Quant Time: May 18 01:00:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM051724SMA.M
Quant Title : SFAM01.0
QLast Update : Sat May 18 00:53:45 2024
Response via : Initial Calibration

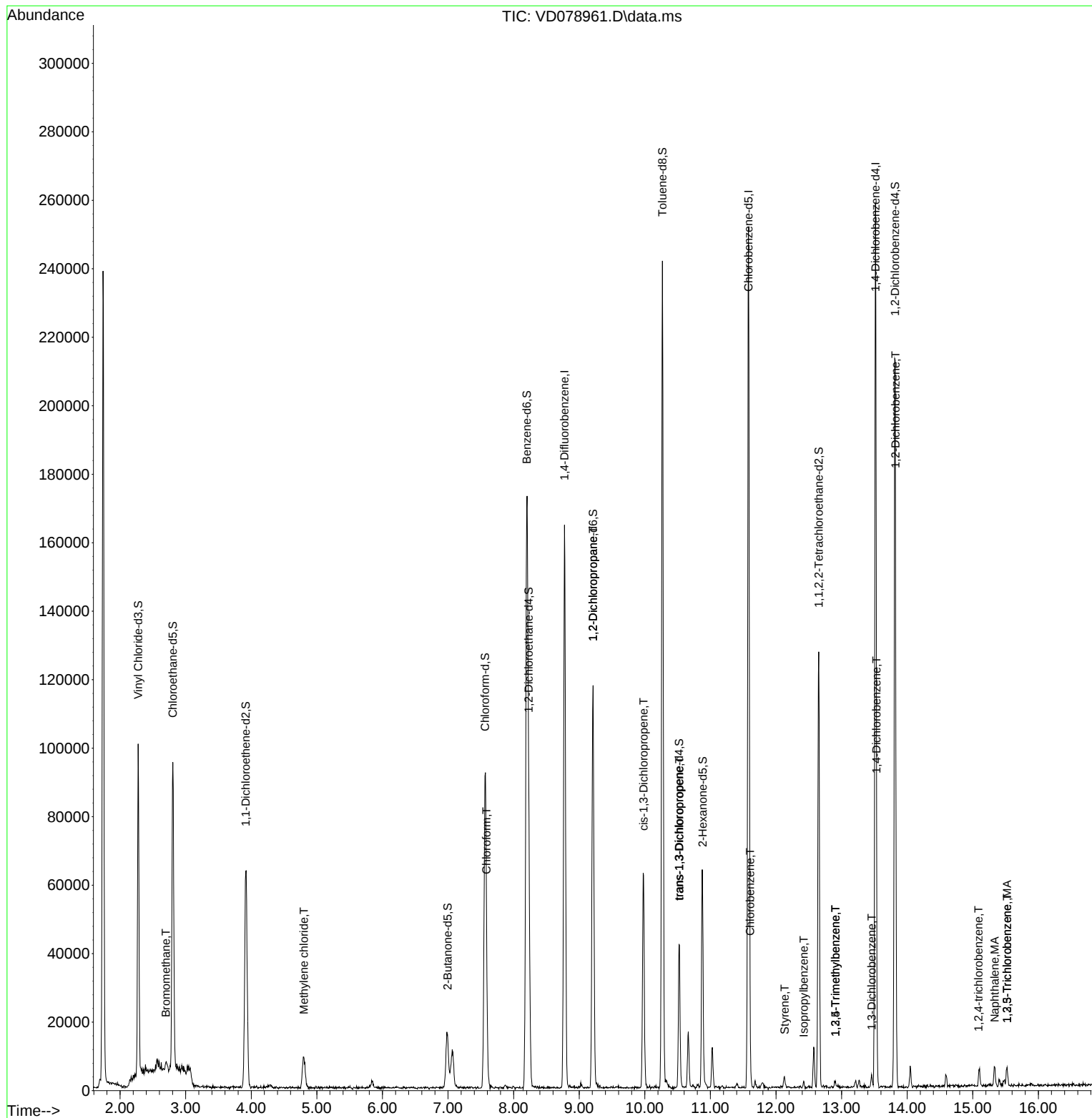
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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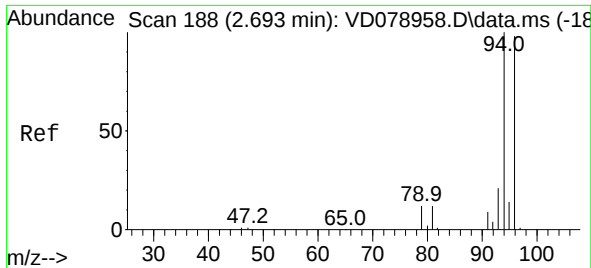
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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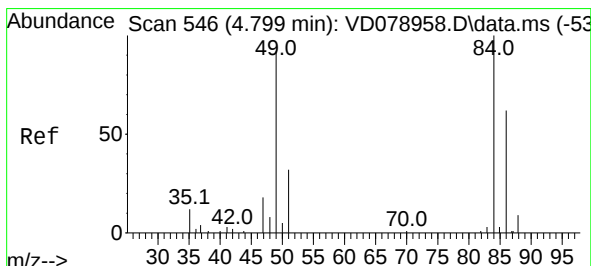
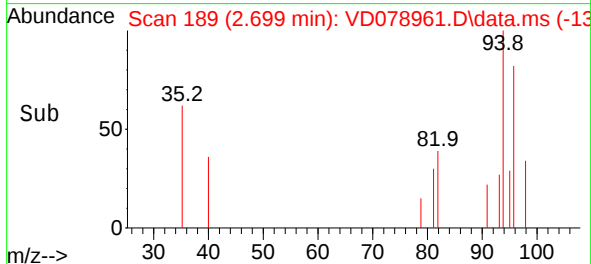
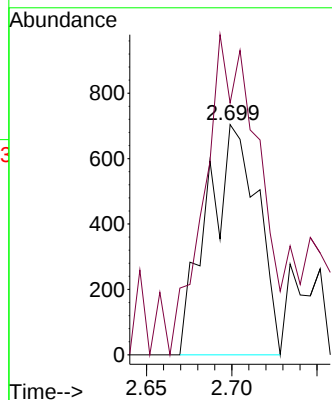
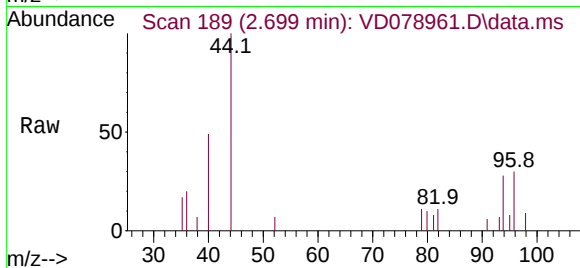




#6
Bromomethane
Concen: 0.322 ug/L
RT: 2.699 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD078961.D
Acq: 17 May 2024 12:15

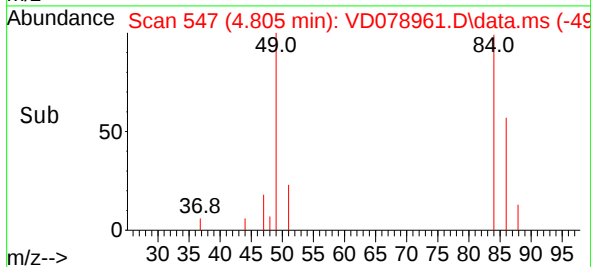
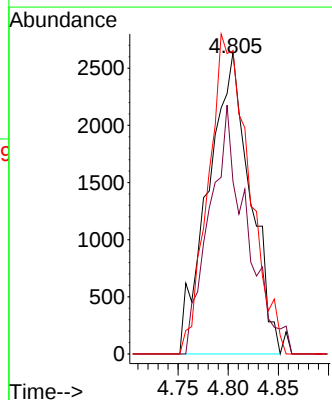
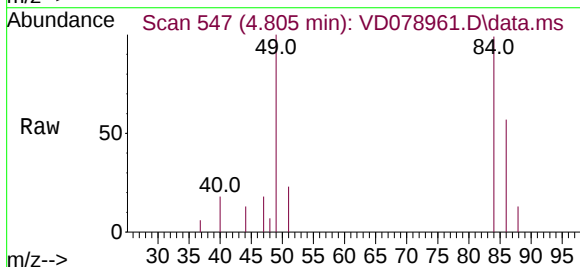
Instrument :
MSVOA_D
ClientSampleId :

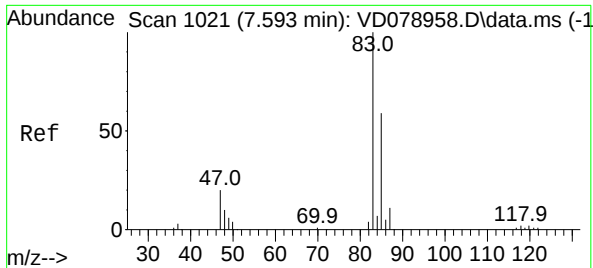
Tgt Ion: 94 Resp: 1442
Ion Ratio Lower Upper
94 100
96 109.4 69.0 128.1



#16
Methylene chloride
Concen: 2.069 ug/L
RT: 4.805 min Scan# 547
Delta R.T. 0.006 min
Lab File: VD078961.D
Acq: 17 May 2024 12:15

Tgt Ion: 84 Resp: 7644
Ion Ratio Lower Upper
84 100
86 57.2 43.7 81.1
49 100.5 64.0 119.0





#25

Chloroform

Concen: 0.420 ug/L

RT: 7.587 min Scan# 1

Delta R.T. -0.006 min

Lab File: VD078961.D

Acq: 17 May 2024 12:15

Instrument :

MSVOA_D

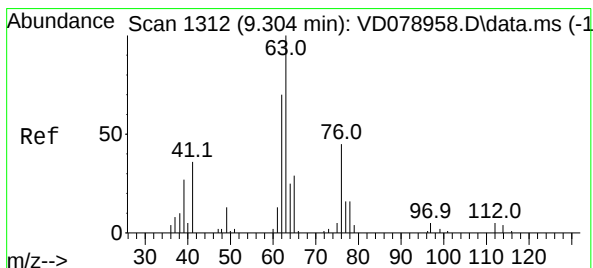
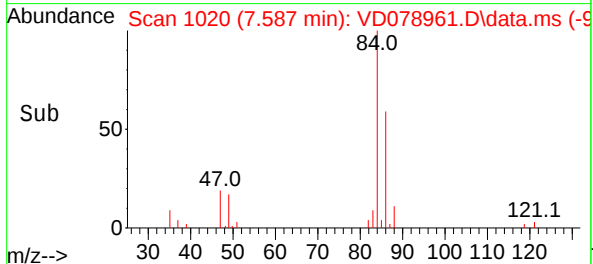
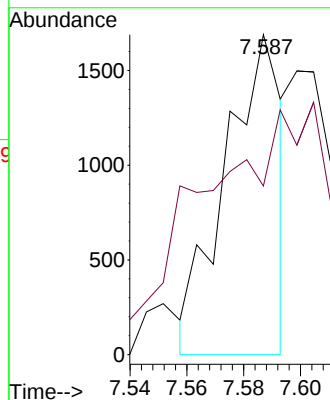
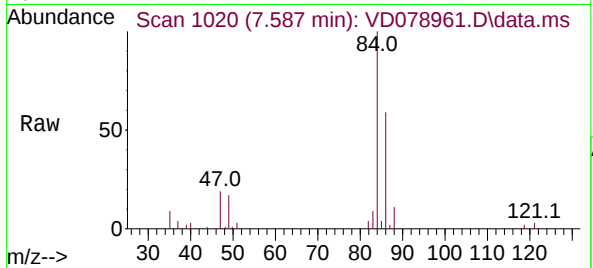
ClientSampleId :

Tgt Ion: 83 Resp: 2326

Ion Ratio Lower Upper

83 100

85 52.7 41.8 77.6



#37

1,2-Dichloropropane

Concen: 2.259 ug/L

RT: 9.210 min Scan# 1296

Delta R.T. -0.094 min

Lab File: VD078961.D

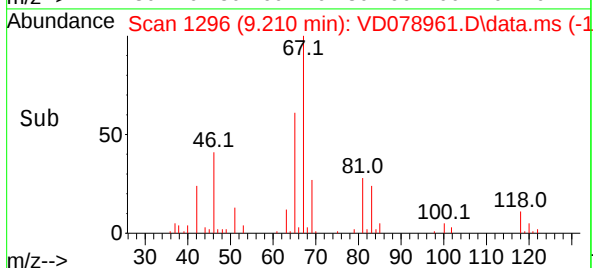
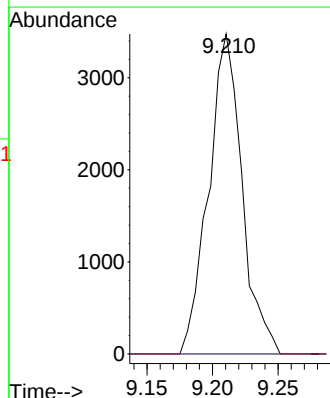
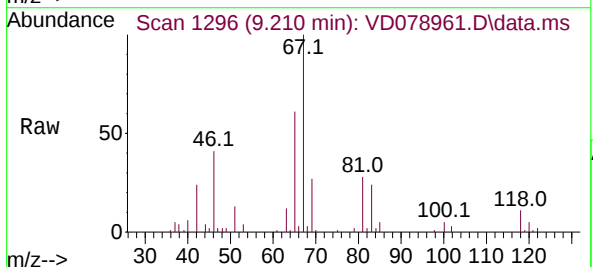
Acq: 17 May 2024 12:15

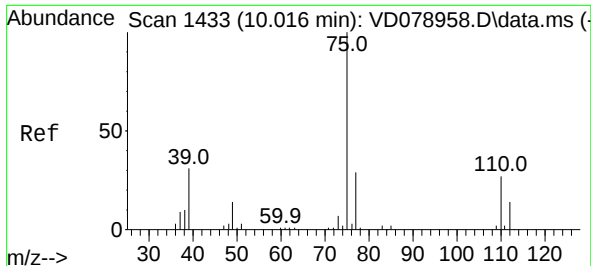
Tgt Ion: 63 Resp: 6158

Ion Ratio Lower Upper

63 100

112 0.0 4.1 6.1#





#39

cis-1,3-Dichloropropene

Concen: 0.379 ug/L

RT: 9.981 min Scan# 1433

Delta R.T. -0.035 min

Lab File: VD078961.D

Acq: 17 May 2024 12:15

Instrument :

MSVOA_D

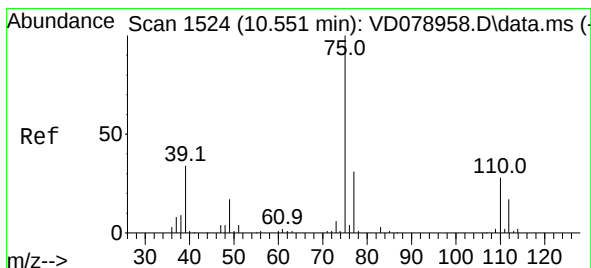
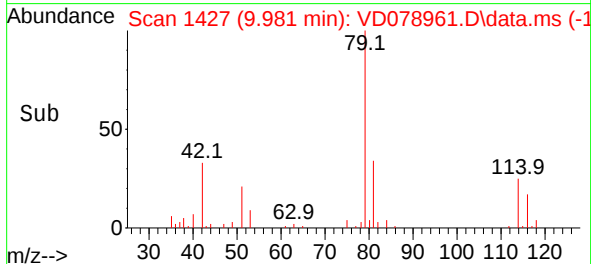
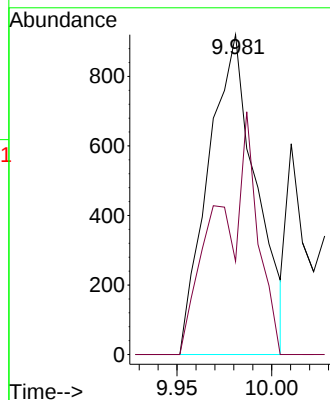
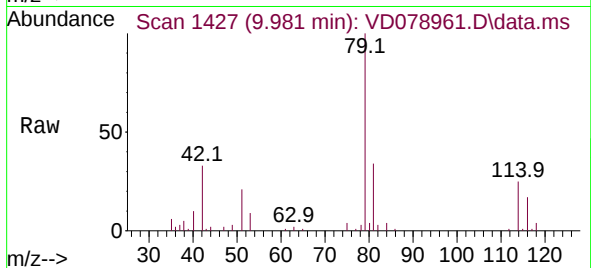
ClientSampleId :

Tgt Ion: 75 Resp: 1620

Ion Ratio Lower Upper

75 100

77 29.1 20.0 37.2



#44

trans-1,3-Dichloropropene

Concen: 0.391 ug/L

RT: 10.528 min Scan# 1520

Delta R.T. -0.023 min

Lab File: VD078961.D

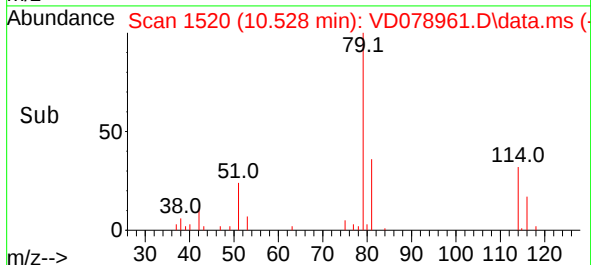
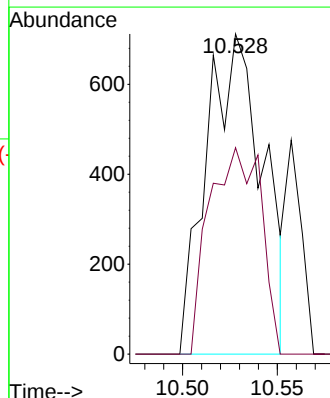
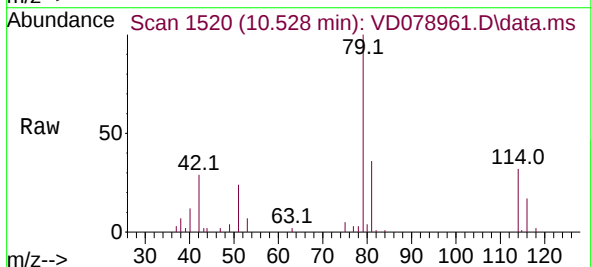
Acq: 17 May 2024 12:15

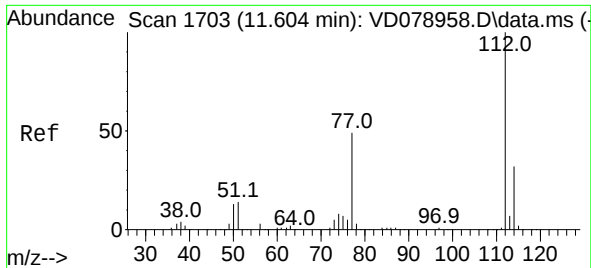
Tgt Ion: 75 Resp: 1479

Ion Ratio Lower Upper

75 100

77 64.5 21.8 40.4#

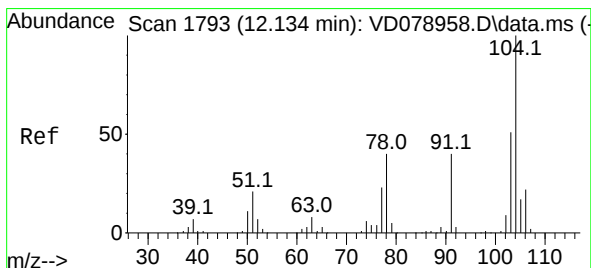
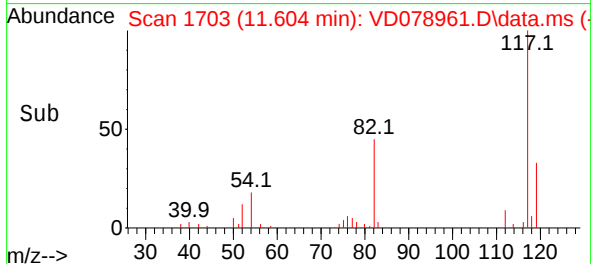
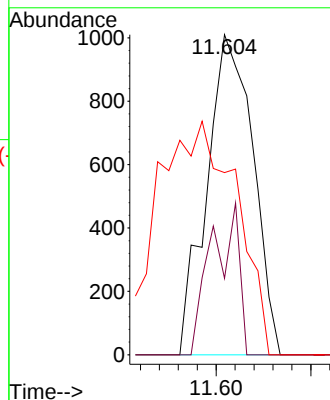
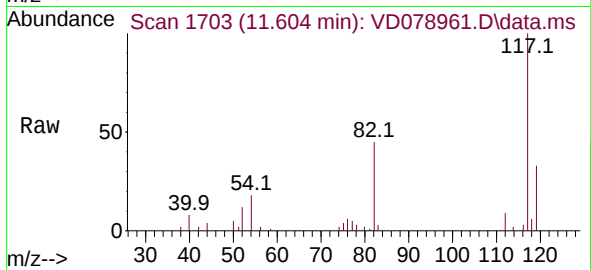




#51
Chlorobenzene
Concen: 0.205 ug/L
RT: 11.604 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VD078961.D
Acq: 17 May 2024 12:15

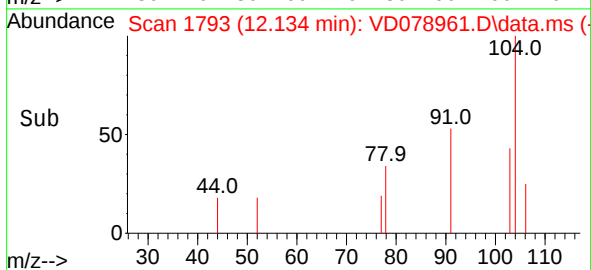
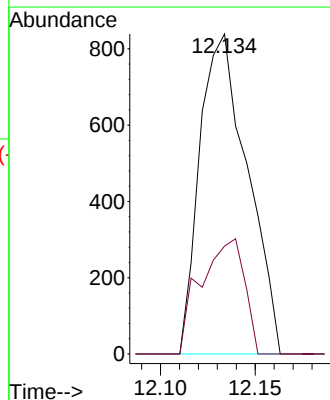
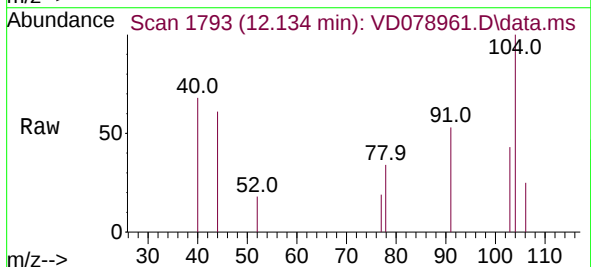
Instrument :
MSVOA_D
ClientSampleId :

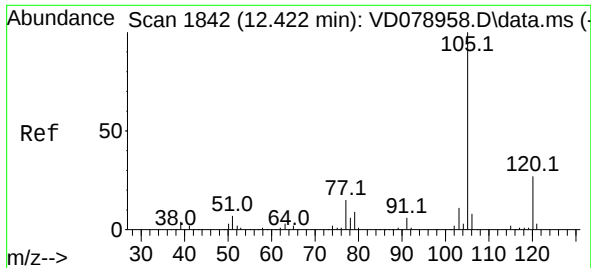
Tgt Ion:112 Resp: 1714
Ion Ratio Lower Upper
112 100
114 23.9 22.5 41.9
77 56.9 39.4 59.0



#55
Styrene
Concen: 0.167 ug/L
RT: 12.134 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VD078961.D
Acq: 17 May 2024 12:15

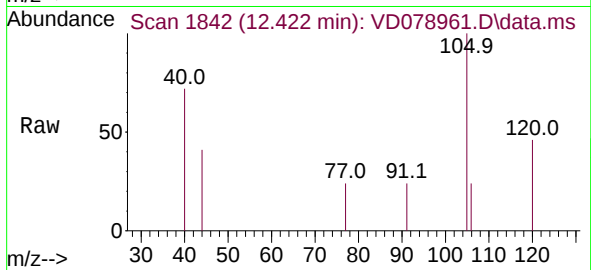
Tgt Ion:104 Resp: 1469
Ion Ratio Lower Upper
104 100
78 33.7 27.8 51.6



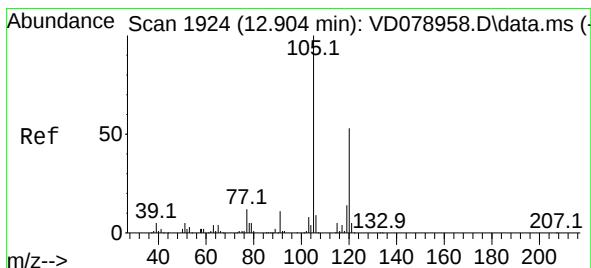
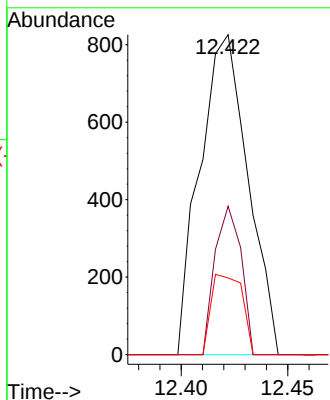
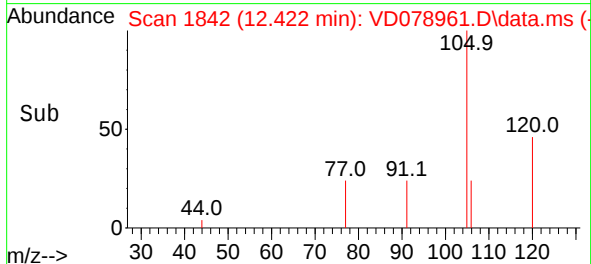


#60
Isopropylbenzene
Concen: 0.121 ug/L
RT: 12.422 min Scan# 1842
Delta R.T. 0.000 min
Lab File: VD078961.D
Acq: 17 May 2024 12:15

Instrument :
MSVOA_D
ClientSampleId :

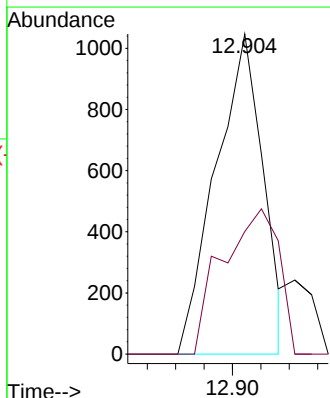
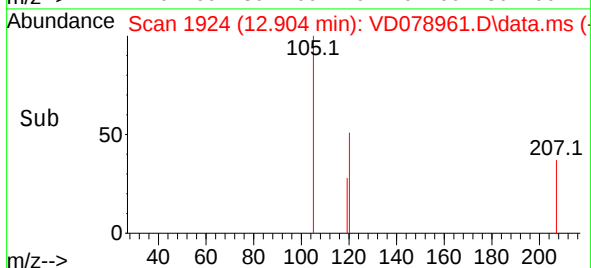
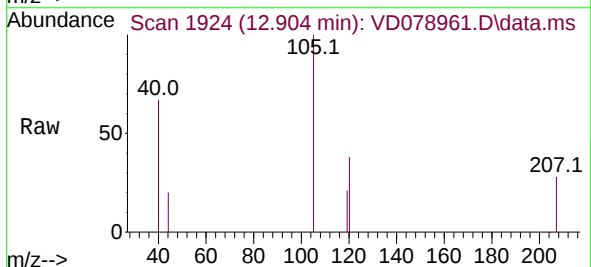


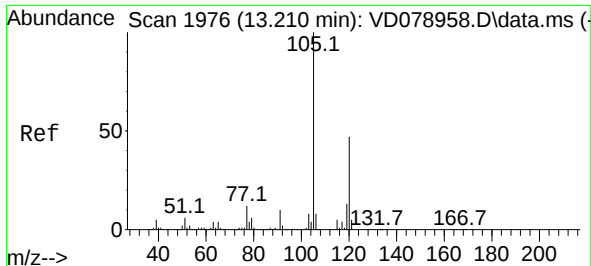
Tgt Ion:105 Resp: 1298
Ion Ratio Lower Upper
105 100
120 25.3 21.8 32.8
77 16.0 11.7 17.5



#62
1,3,5-Trimethylbenzene
Concen: 0.154 ug/L
RT: 12.904 min Scan# 1924
Delta R.T. 0.000 min
Lab File: VD078961.D
Acq: 17 May 2024 12:15

Tgt Ion:105 Resp: 1218
Ion Ratio Lower Upper
105 100
120 54.0 41.9 62.9





#63

1,2,4-Trimethylbenzene

Concen: 0.152 ug/L

RT: 12.904 min Scan# 1976

Delta R.T. -0.306 min

Lab File: VD078961.D

Acq: 17 May 2024 12:15

Instrument :

MSVOA_D

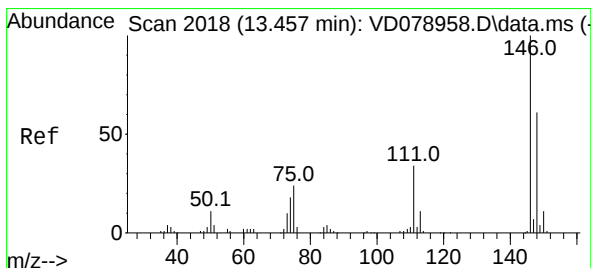
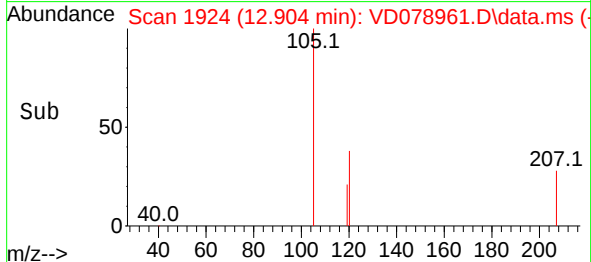
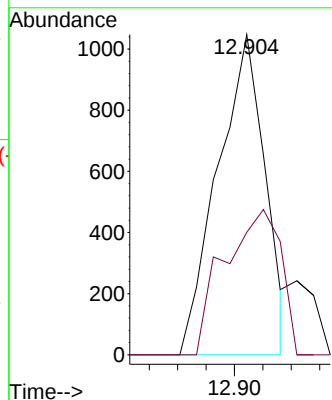
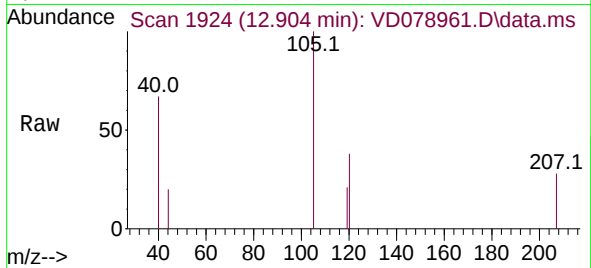
ClientSampleId :

Tgt Ion:105 Resp: 1218

Ion Ratio Lower Upper

105 100

120 54.0 38.8 58.2



#64

1,3-Dichlorobenzene

Concen: 0.377 ug/L

RT: 13.457 min Scan# 2018

Delta R.T. 0.000 min

Lab File: VD078961.D

Acq: 17 May 2024 12:15

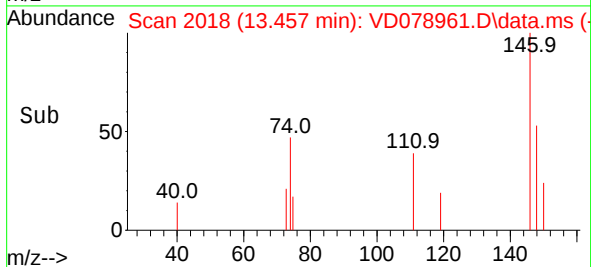
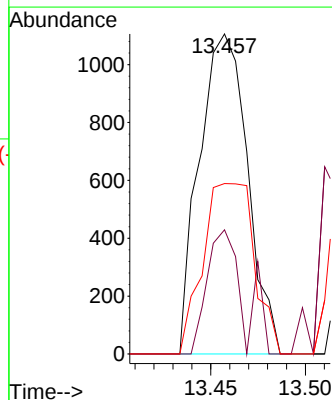
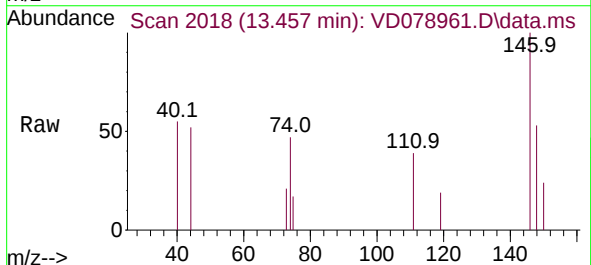
Tgt Ion:146 Resp: 1959

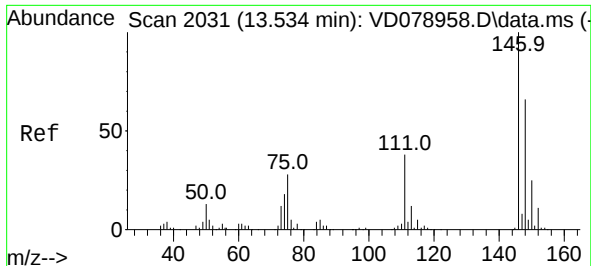
Ion Ratio Lower Upper

146 100

111 38.8 24.0 44.6

148 53.3 42.9 79.7





#65

1,4-Dichlorobenzene

Concen: 0.390 ug/L

RT: 13.534 min Scan# 2031

Delta R.T. 0.000 min

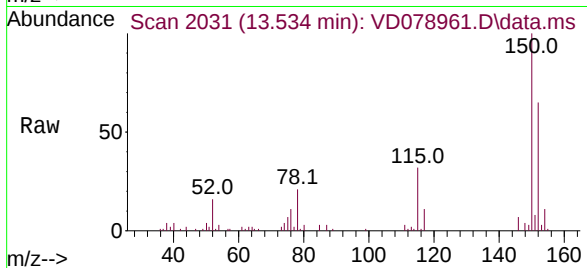
Lab File: VD078961.D

Acq: 17 May 2024 12:15

Instrument :

MSVOA_D

ClientSampleId :



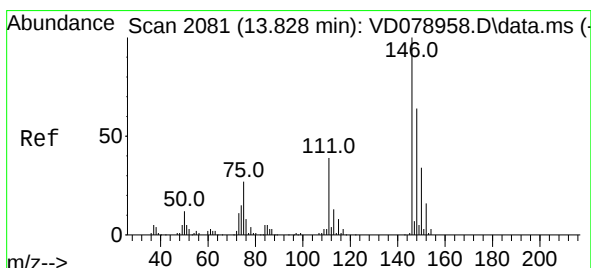
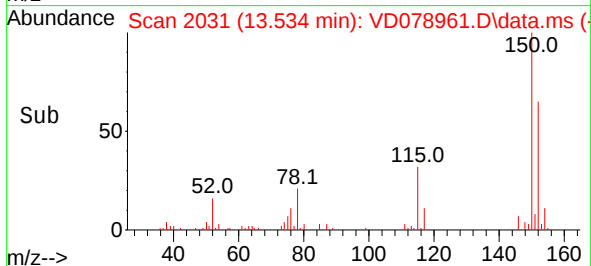
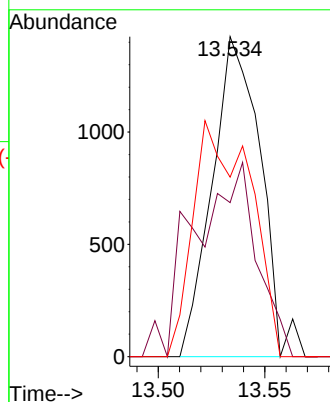
Tgt Ion:146 Resp: 2185

Ion Ratio Lower Upper

146 100

111 48.1 26.9 50.1

148 56.1 46.4 86.2



#67

1,2-Dichlorobenzene

Concen: 0.394 ug/L

RT: 13.822 min Scan# 2080

Delta R.T. -0.006 min

Lab File: VD078961.D

Acq: 17 May 2024 12:15

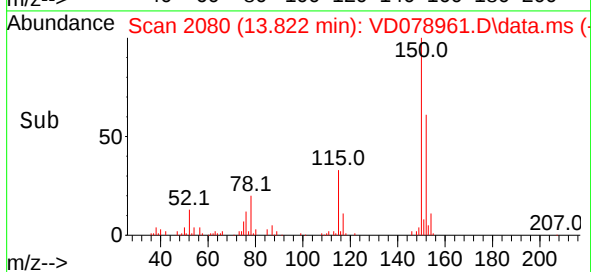
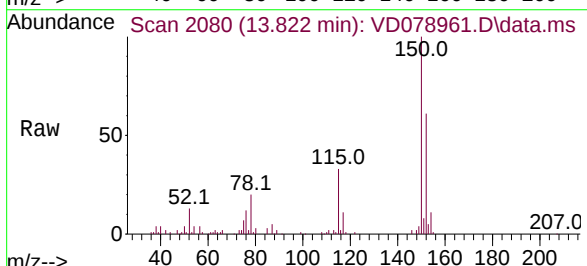
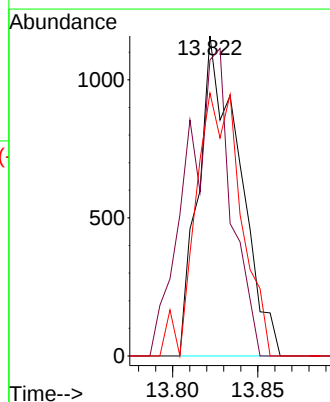
Tgt Ion:146 Resp: 1935

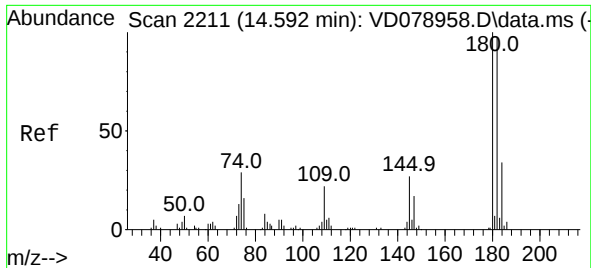
Ion Ratio Lower Upper

146 100

111 92.5 30.9 46.3#

148 82.1 51.4 77.0#





#69

1,3,5-Trichlorobenzene

Concen: 0.759 ug/L

RT: 15.522 min Scan# 21

Delta R.T. 0.930 min

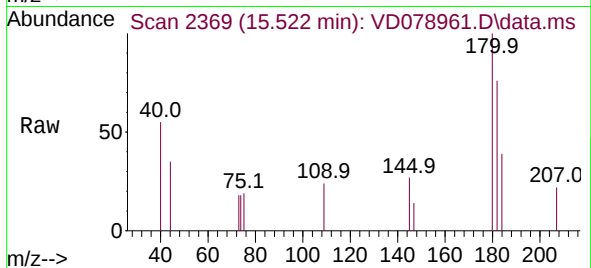
Lab File: VD078961.D

Acq: 17 May 2024 12:15

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:180 Resp: 2562

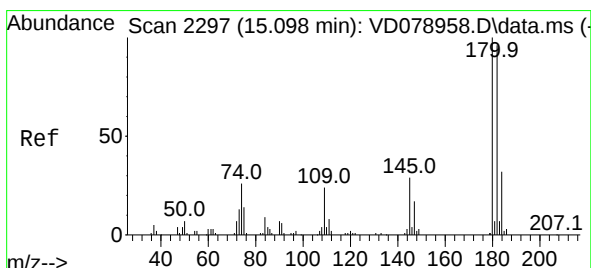
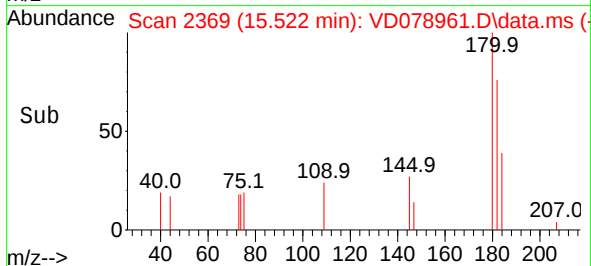
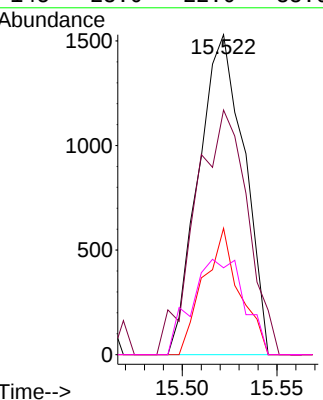
Ion Ratio Lower Upper

180 100

182 87.7 76.2 114.2

184 31.3 24.9 37.3

145 23.0 22.0 33.0



#70

1,2,4-trichlorobenzene

Concen: 0.312 ug/L

RT: 15.087 min Scan# 2295

Delta R.T. -0.012 min

Lab File: VD078961.D

Acq: 17 May 2024 12:15

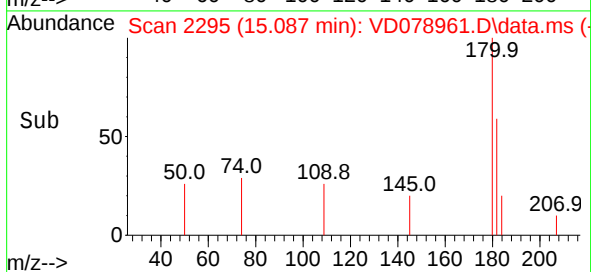
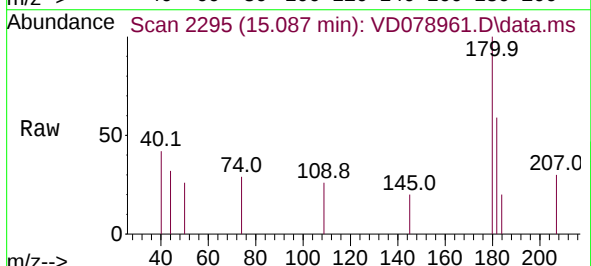
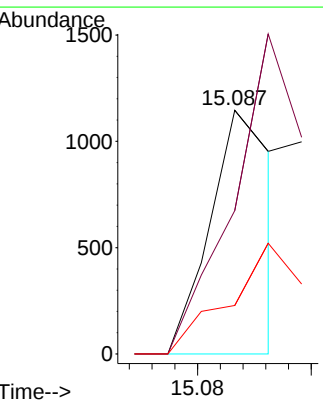
Tgt Ion:180 Resp: 892

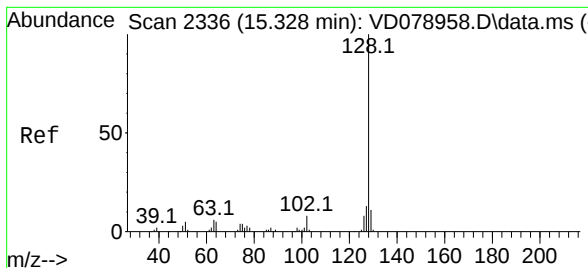
Ion Ratio Lower Upper

180 100

182 257.2 76.4 114.6#

145 62.7 22.8 34.2#





#71

Naphthalene

Concen: 1.097 ug/L

RT: 15.334 min Scan# 2337

Delta R.T. 0.006 min

Lab File: VD078961.D

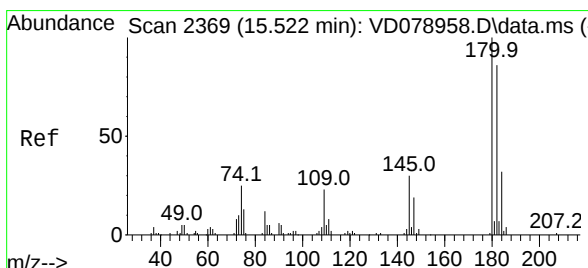
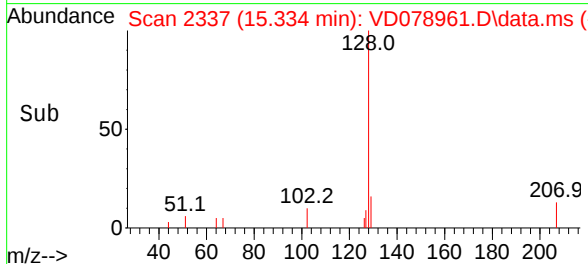
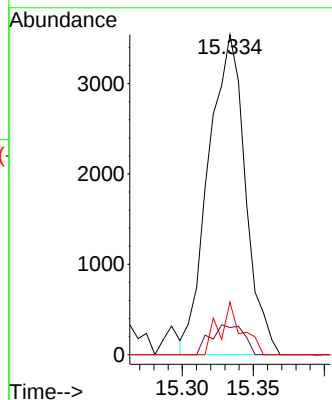
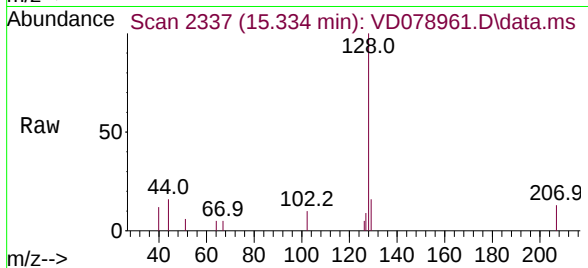
Acq: 17 May 2024 12:15

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	128	Resp:	6391
Ion	Ratio	Lower	Upper
128	100		
127	8.4	10.3	15.5#
129	7.7	8.6	12.8#



#72

1,2,3-Trichlorobenzene

Concen: 0.960 ug/L

RT: 15.522 min Scan# 2369

Delta R.T. 0.000 min

Lab File: VD078961.D

Acq: 17 May 2024 12:15

Tgt Ion:	180	Resp:	2562
Ion	Ratio	Lower	Upper
180	100		
182	87.7	77.2	115.8
145	23.0	24.4	36.6#

