

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD031825\
 Data File : VD080279.D
 Acq On : 18 Mar 2025 12:56
 Operator : RP/MD
 Sample : VIBLK
 Misc : 5.00G/10ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK839

Quant Time: Mar 24 11:17:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM031825SMA.M
 Quant Title : SFAM01.0
 QLast Update : Mon Mar 24 09:47:37 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.775	114	204335	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	185333	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.516	152	90989	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.264	65	152768	22.70	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.80%
7) Chloroethane-d5	2.793	69	138730	23.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.56%
11) 1,1-Dichloroethene-d2	3.905	65	35379	25.01	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	100.04%
21) 2-Butanone-d5	7.134	46	329	0.47	ug/L	0.15
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.94%#
24) Chloroform-d	7.563	84	152684	24.23	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.92%
26) 1,2-Dichloroethane-d4	8.228	65	85415	24.81	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.24%
32) Benzene-d6	8.199	84	286915	26.49	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	105.96%
36) 1,2-Dichloropropane-d6	9.205	67	99954	28.61	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	114.44%
41) Toluene-d8	10.269	98	241077	24.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	98.64%
43) trans-1,3-Dichloroprop...	10.522	79	36601	25.45	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	101.80%
47) 2-Hexanone-d5	10.875	63	25199	49.85	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.70%
56) 1,1,2,2-Tetrachloroeth...	12.646	84	76938	24.78	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	99.12%
66) 1,2-Dichlorobenzene-d4	13.816	152	88649	27.81	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	111.24%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.934	85	1139	0.30	ug/L #	83
3) Chloromethane	2.152	50	2040	0.33	ug/L #	77
5) Vinyl chloride	2.270	62	2670	0.33	ug/L #	1
6) Bromomethane	2.693	94	2320	0.56	ug/L	91
19) 1,1-Dichloroethane	6.116	63	1109	0.17	ug/L #	50
25) Chloroform	7.599	83	8002	1.18	ug/L	97
29) Cyclohexane	7.887	56	693	0.16	ug/L #	49
31) Carbon tetrachloride	7.999	117	453	0.11	ug/L #	44
35) Methylcyclohexane	9.281	83	1052	0.23	ug/L #	64
38) Bromodichloromethane	9.581	83	642	0.14	ug/L #	28
42) Toluene	10.334	91	2410	0.19	ug/L	86
45) 1,1,2-Trichloroethane	10.657	97	668	0.26	ug/L #	14
51) Chlorobenzene	11.604	112	1664	0.20	ug/L #	81
52) Ethylbenzene	11.681	91	2001	0.14	ug/L	98
54) o-Xylene	12.116	106	615	0.12	ug/L	84
55) Styrene	12.128	104	1479	0.17	ug/L #	73
60) Isopropylbenzene	12.416	105	1909	0.16	ug/L #	84
62) 1,3,5-Trimethylbenzene	13.210	105	2004	0.21	ug/L	93
63) 1,2,4-Trimethylbenzene	13.210	105	2004	0.20	ug/L	96

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM031825SMA.M
Quant Title : SFAM01.0
QLast Update : Mon Mar 24 09:47:37 2025
Response via : Initial Calibration

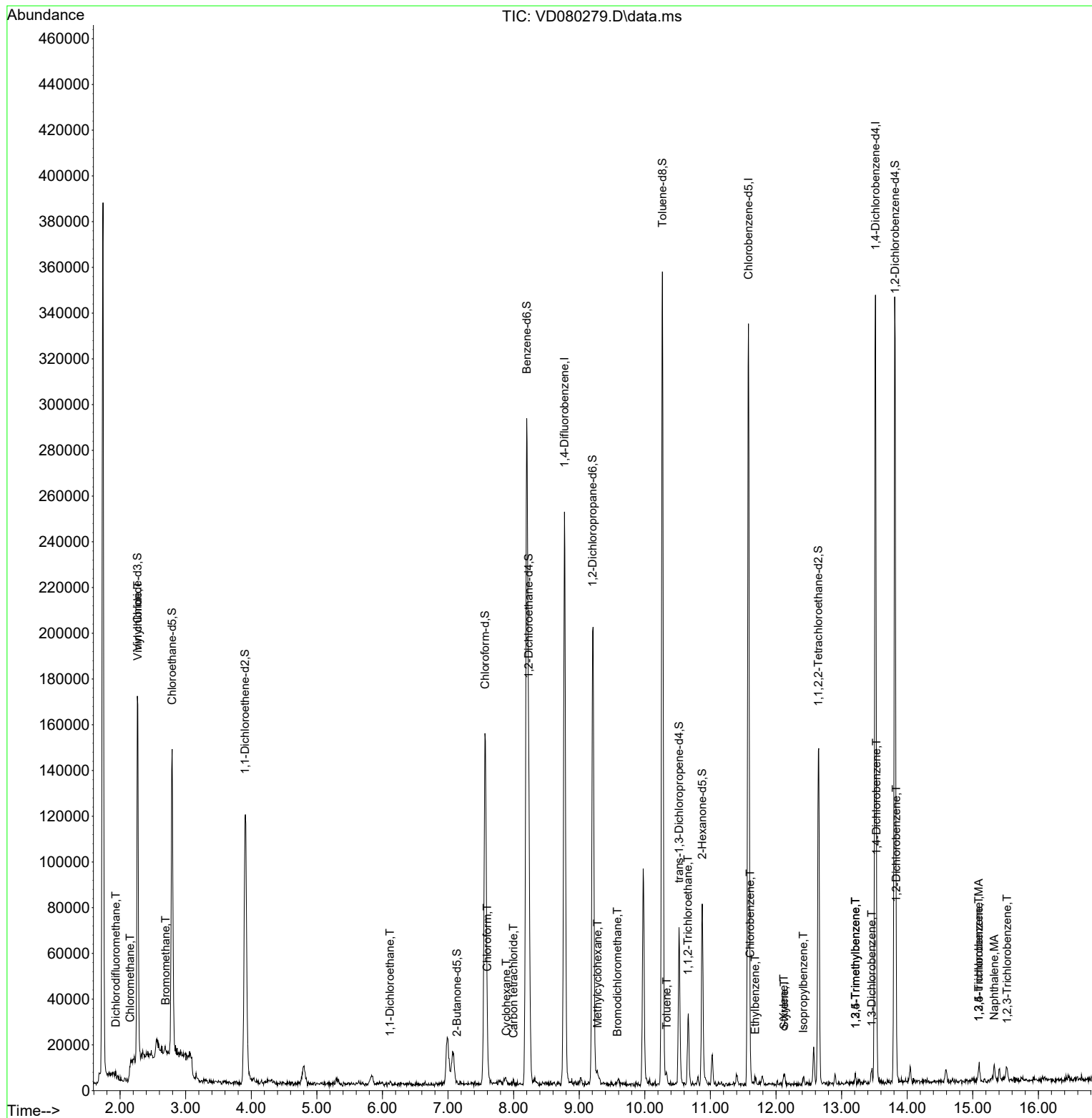
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	13.457	146	2207	0.36	ug/L #	86
65) 1,4-Dichlorobenzene	13.534	146	2615	0.40	ug/L	95
67) 1,2-Dichlorobenzene	13.834	146	2193	0.39	ug/L	91
69) 1,3,5-Trichlorobenzene	15.092	180	2572	0.64	ug/L	95
70) 1,2,4-trichlorobenzene	15.092	180	2572	0.77	ug/L	96
71) Naphthalene	15.328	128	5718	0.91	ug/L #	90
72) 1,2,3-Trichlorobenzene	15.522	180	2407	0.79	ug/L	96

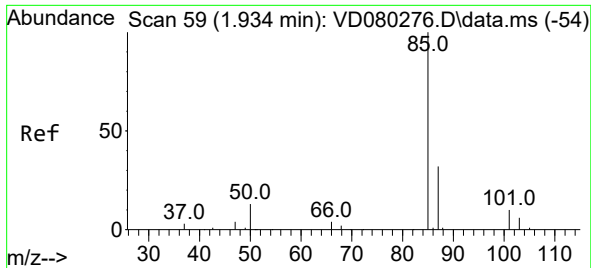
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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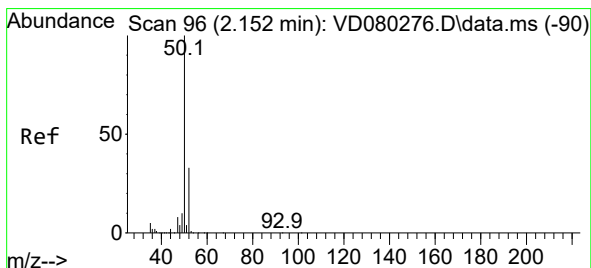
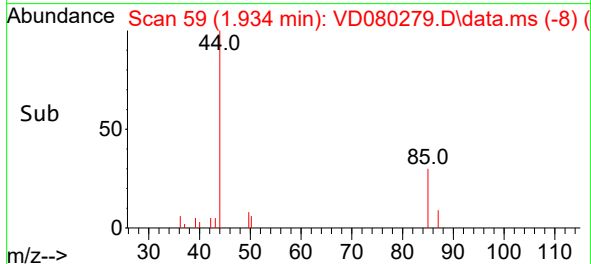
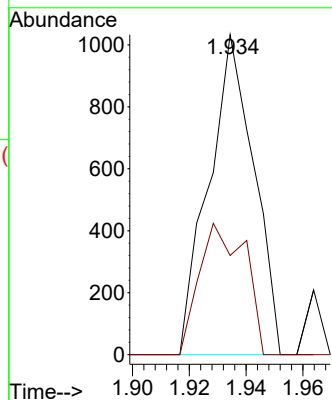
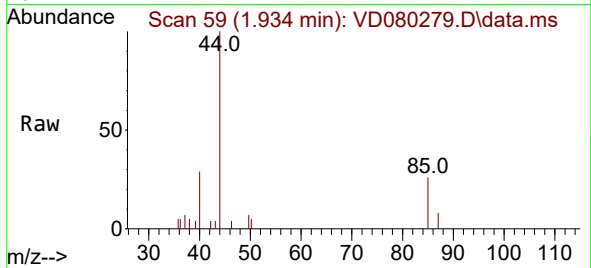




#2
Dichlorodifluoromethane
Concen: 0.30 ug/L
RT: 1.934 min Scan# 59
Delta R.T. 0.000 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

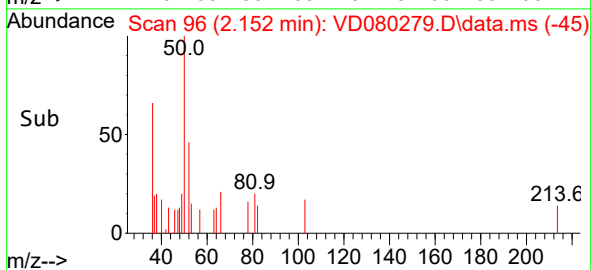
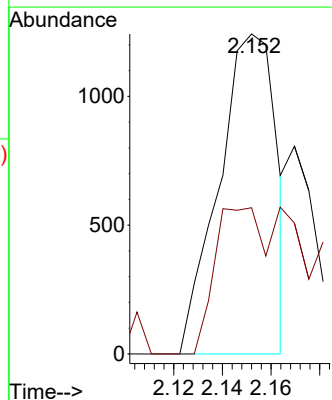
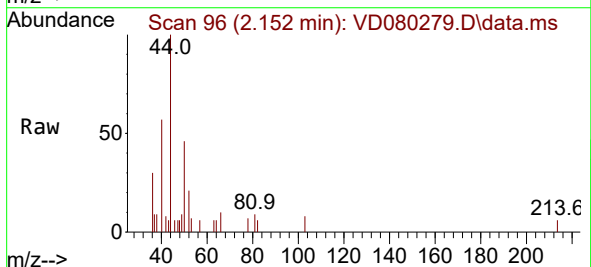
Instrument :
MSVOA_D
ClientSampleId :
VIBLK839

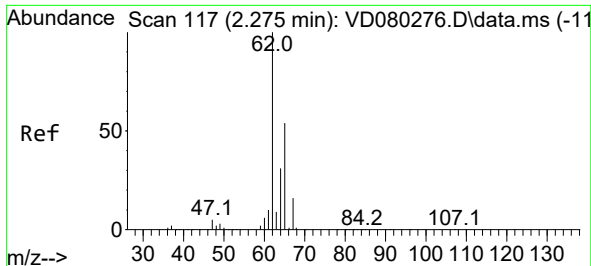
Tgt Ion: 85 Resp: 1139
Ion Ratio Lower Upper
85 100
87 41.7 25.6 38.4#



#3
Chloromethane
Concen: 0.33 ug/L
RT: 2.152 min Scan# 96
Delta R.T. -0.000 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

Tgt Ion: 50 Resp: 2040
Ion Ratio Lower Upper
50 100
52 45.7 23.1 42.9#

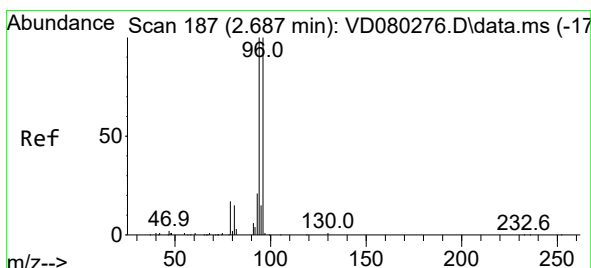
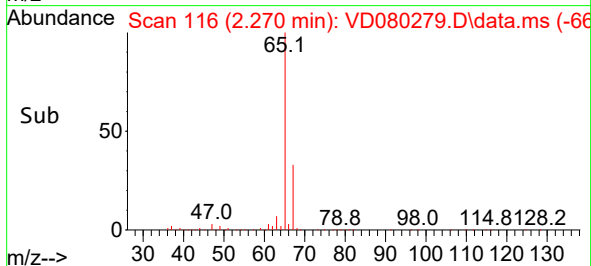
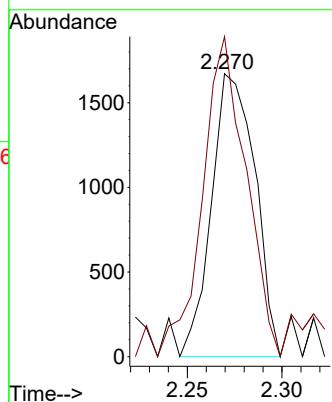
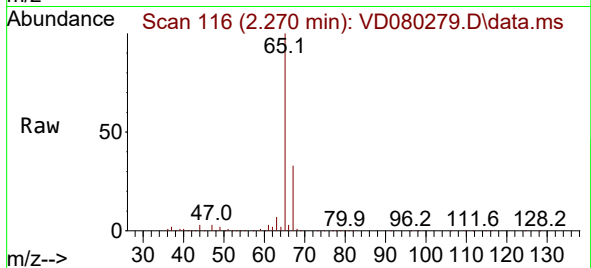




#5
 Vinyl chloride
 Concen: 0.33 ug/L
 RT: 2.270 min Scan# 117
 Delta R.T. -0.005 min
 Lab File: VD080279.D
 Acq: 18 Mar 2025 12:56

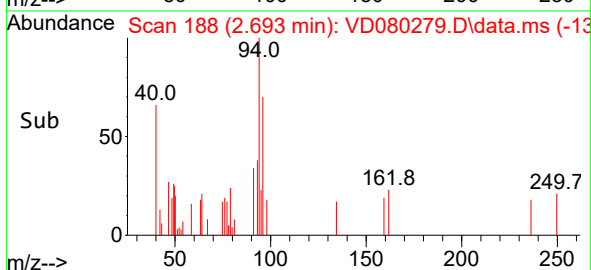
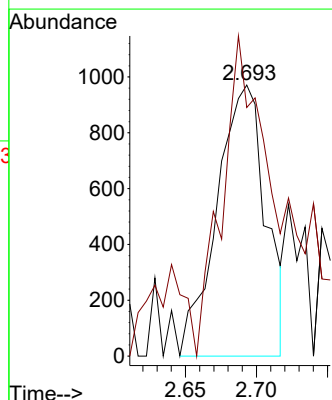
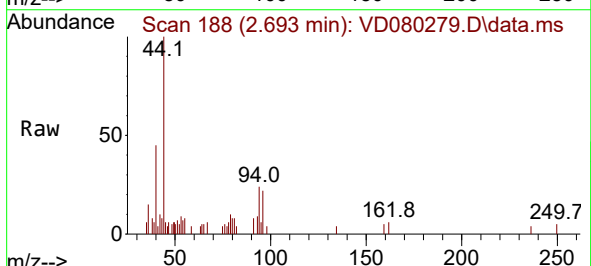
Instrument :
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 ClientSampleId :
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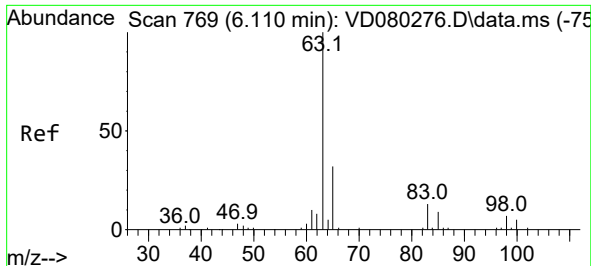
Tgt Ion: 62 Resp: 2670
 Ion Ratio Lower Upper
 62 100
 64 113.0 21.3 39.6#



#6
 Bromomethane
 Concen: 0.56 ug/L
 RT: 2.693 min Scan# 188
 Delta R.T. 0.006 min
 Lab File: VD080279.D
 Acq: 18 Mar 2025 12:56

Tgt Ion: 94 Resp: 2320
 Ion Ratio Lower Upper
 94 100
 96 91.8 70.3 130.5

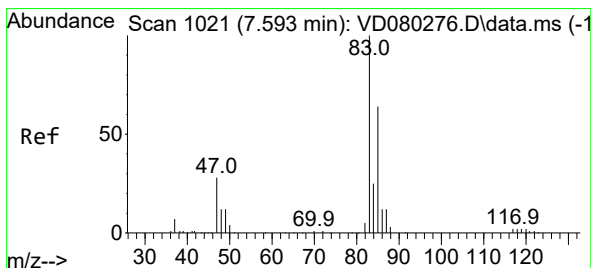
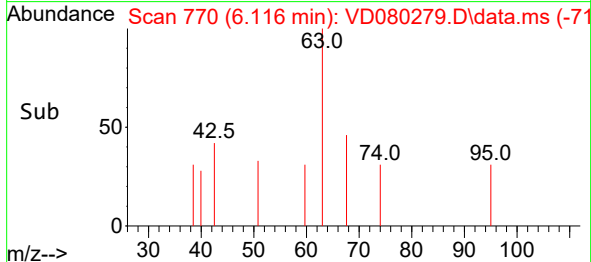
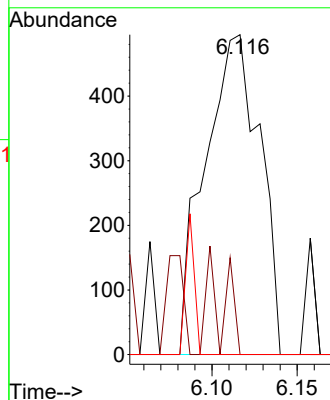
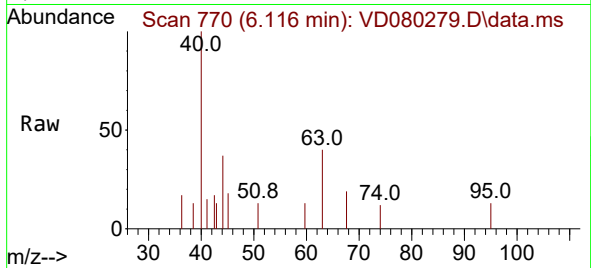




#19
1,1-Dichloroethane
Concen: 0.17 ug/L
RT: 6.116 min Scan# 71
Delta R.T. 0.006 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

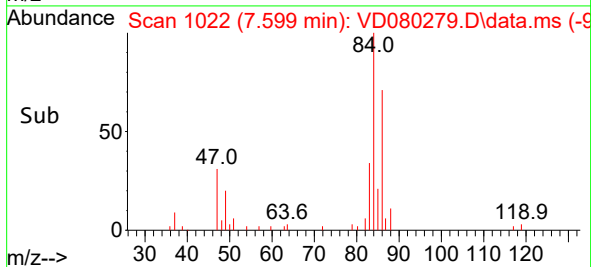
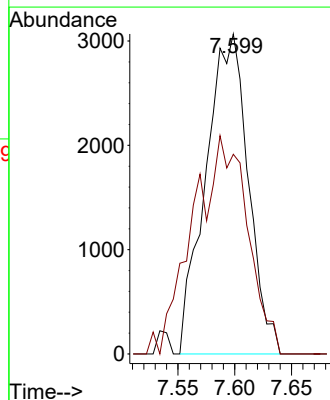
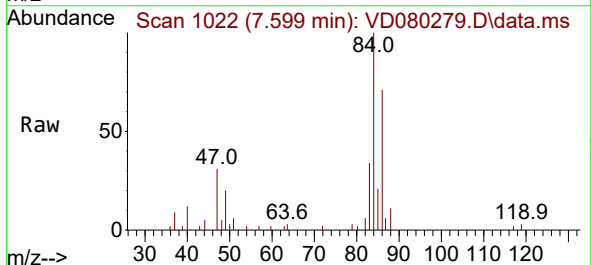
Instrument :
MSVOA_D
ClientSampleId :
VIBLK839

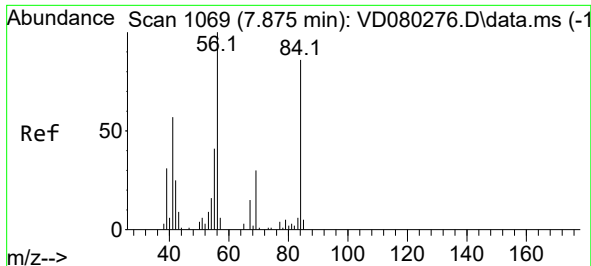
Tgt Ion: 63 Resp: 1109
Ion Ratio Lower Upper
63 100
65 0.0 22.4 41.6#
83 0.0 8.8 16.3#



#25
Chloroform
Concen: 1.18 ug/L
RT: 7.599 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

Tgt Ion: 83 Resp: 8002
Ion Ratio Lower Upper
83 100
85 62.4 45.1 83.7





#29

Cyclohexane

Concen: 0.16 ug/L

RT: 7.887 min Scan# 1069

Delta R.T. 0.012 min

Lab File: VD080279.D

Acq: 18 Mar 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

VIBLK839

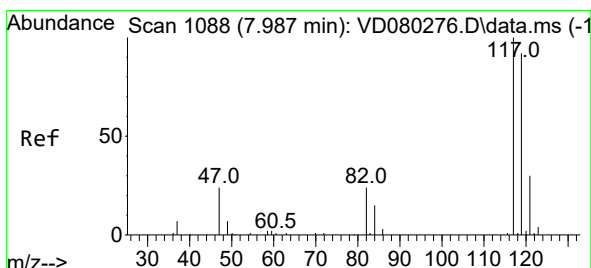
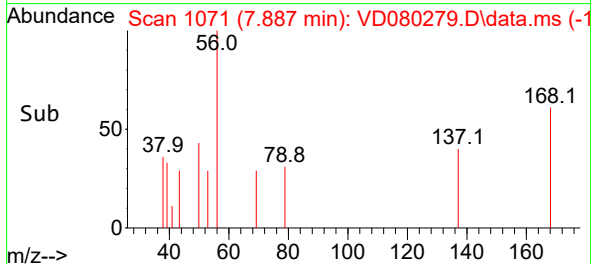
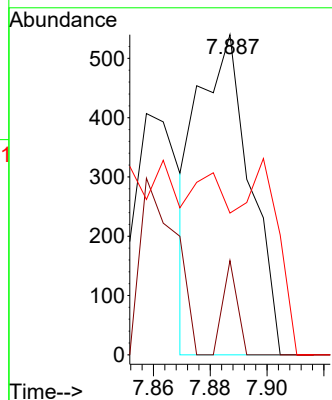
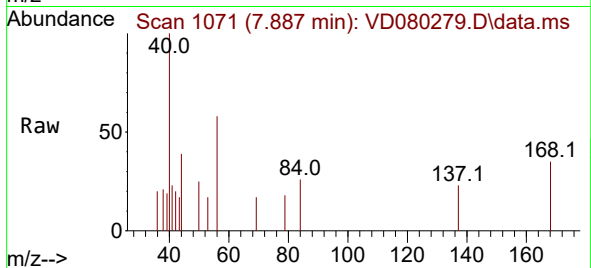
Tgt Ion: 56 Resp: 693

Ion Ratio Lower Upper

56 100

69 0.0 24.6 37.0#

84 42.6 71.4 107.2#



#31

Carbon tetrachloride

Concen: 0.11 ug/L

RT: 7.999 min Scan# 1090

Delta R.T. 0.012 min

Lab File: VD080279.D

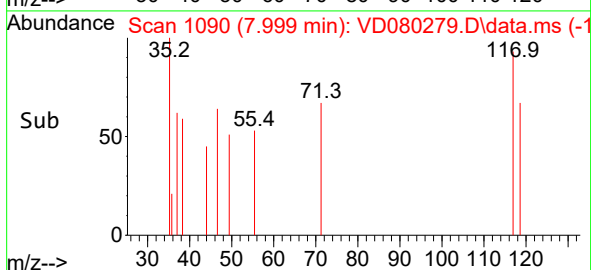
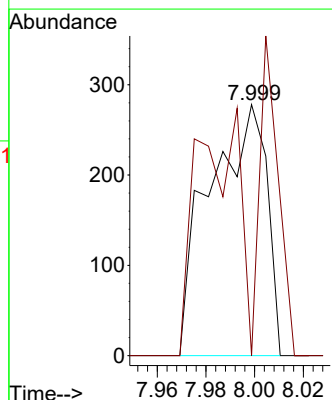
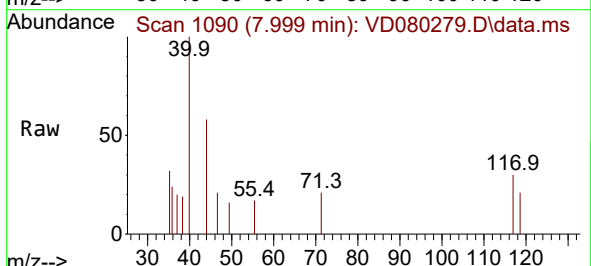
Acq: 18 Mar 2025 12:56

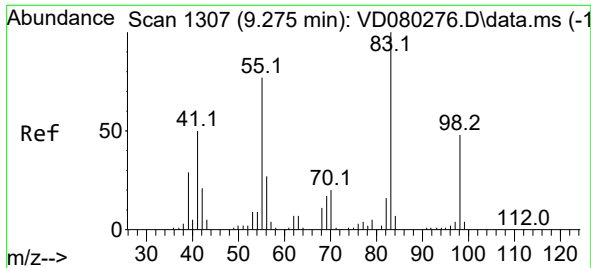
Tgt Ion: 117 Resp: 453

Ion Ratio Lower Upper

117 100

119 41.1 76.0 114.0#

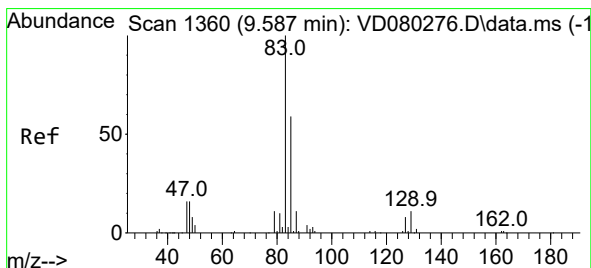
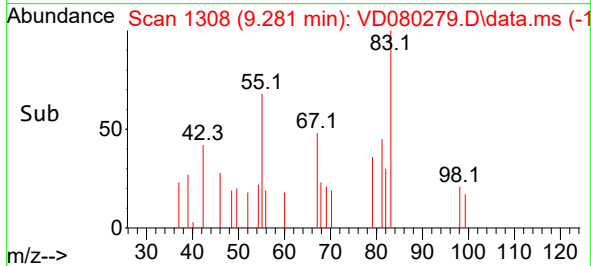
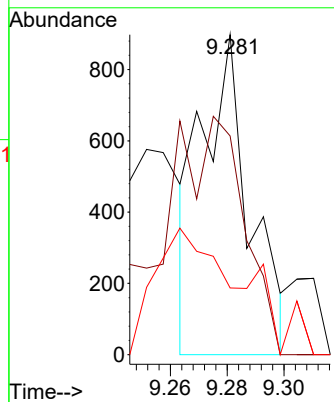
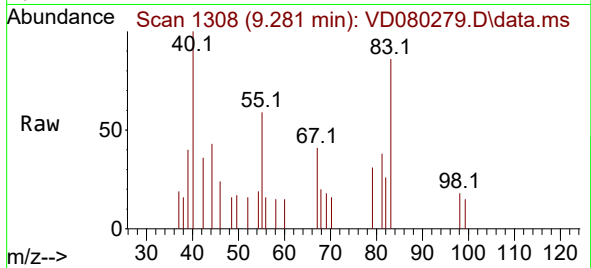




#35
Methylcyclohexane
Concen: 0.23 ug/L
RT: 9.281 min Scan# 1308
Delta R.T. 0.006 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

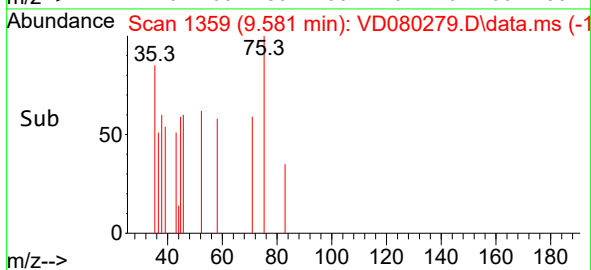
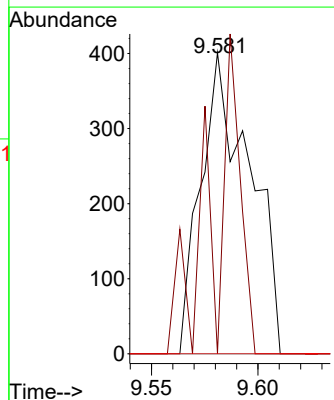
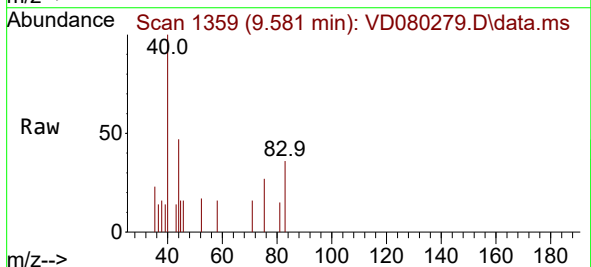
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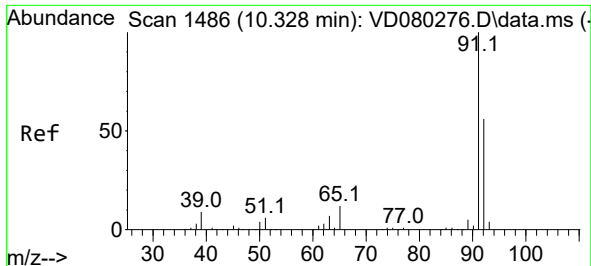
Tgt Ion: 83 Resp: 1052
Ion Ratio Lower Upper
83 100
55 61.2 65.0 97.6#
98 8.6 39.0 58.6#



#38
Bromodichloromethane
Concen: 0.14 ug/L
RT: 9.581 min Scan# 1359
Delta R.T. -0.006 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

Tgt Ion: 83 Resp: 642
Ion Ratio Lower Upper
83 100
85 0.0 41.4 77.0#
127 0.0 6.6 10.0#

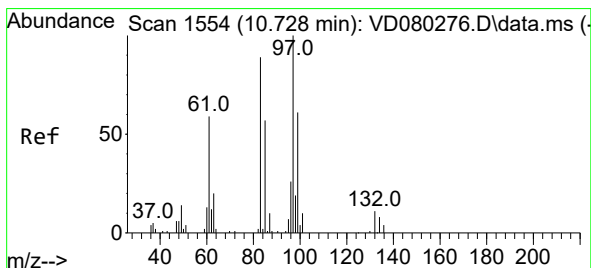
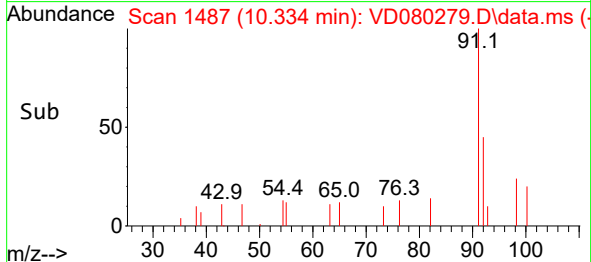
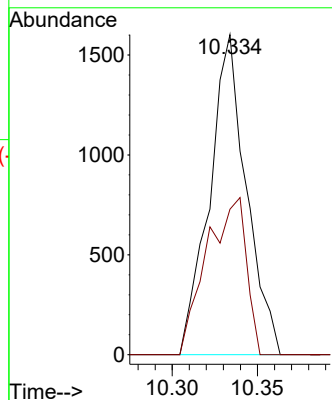
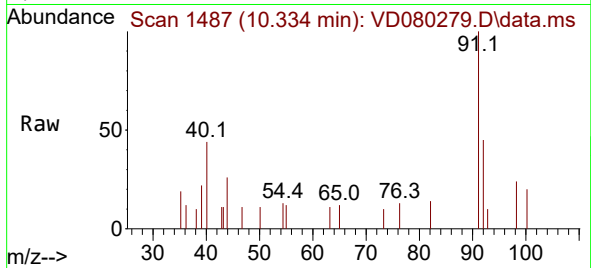




#42
Toluene
Concen: 0.19 ug/L
RT: 10.334 min Scan# 1486
Delta R.T. 0.006 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

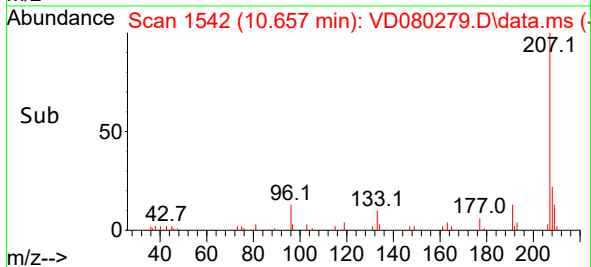
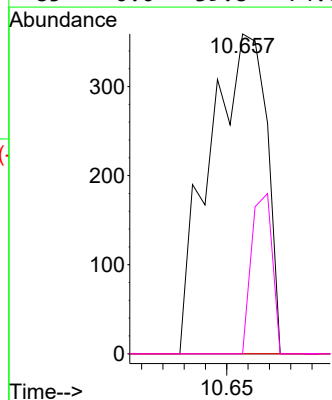
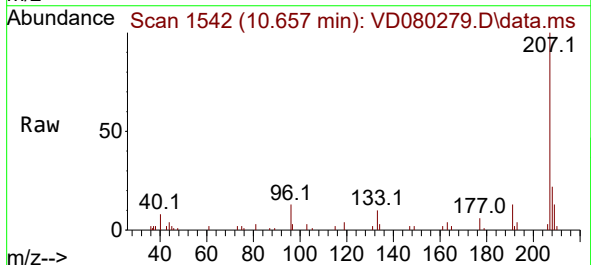
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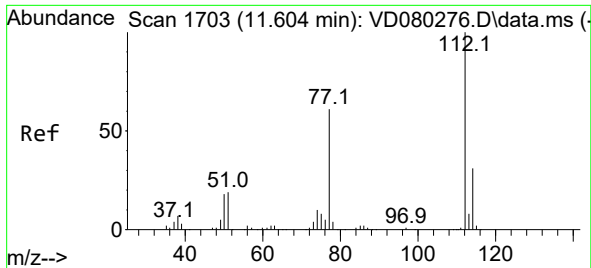
Tgt Ion: 91 Resp: 2410
Ion Ratio Lower Upper
91 100
92 45.4 38.9 72.3



#45
1,1,2-Trichloroethane
Concen: 0.26 ug/L
RT: 10.657 min Scan# 1542
Delta R.T. -0.071 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

Tgt Ion: 97 Resp: 668
Ion Ratio Lower Upper
97 100
99 0.0 43.0 79.8#
83 0.0 62.2 115.4#
85 0.0 39.8 74.0#

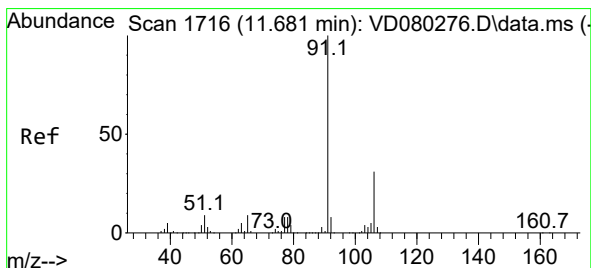
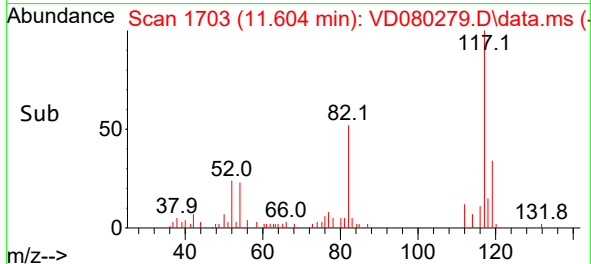
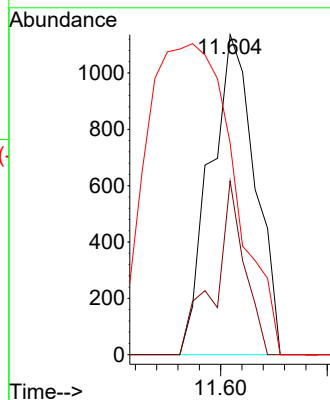
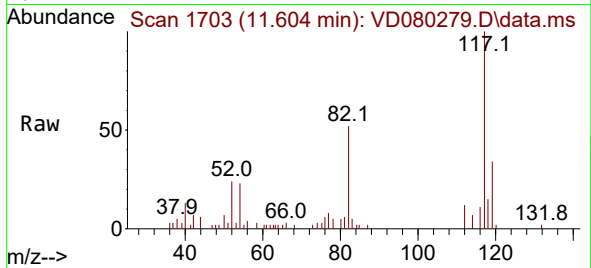




#51
Chlorobenzene
Concen: 0.20 ug/L
RT: 11.604 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

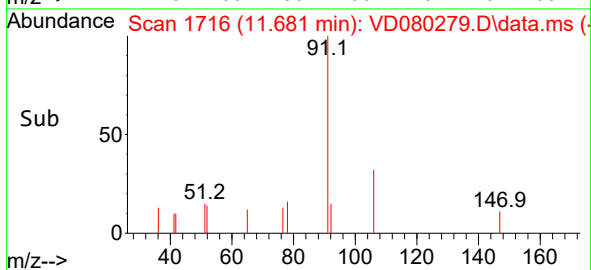
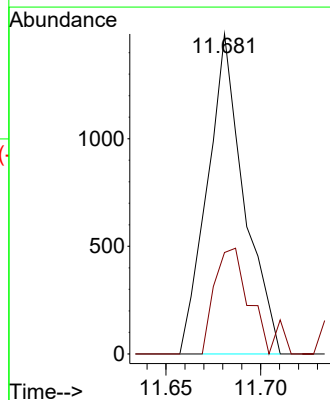
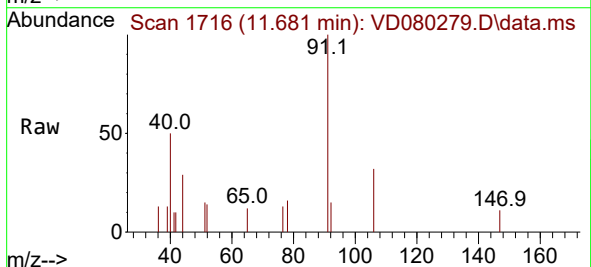
Instrument :
MSVOA_D
ClientSampleId :
VIBLK839

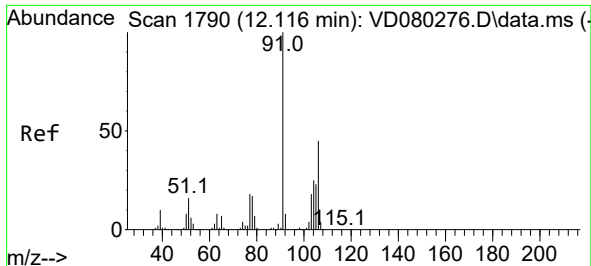
Tgt Ion:112 Resp: 1664
Ion Ratio Lower Upper
112 100
114 54.3 21.8 40.6#
77 66.1 48.8 73.2



#52
Ethylbenzene
Concen: 0.14 ug/L
RT: 11.681 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

Tgt Ion: 91 Resp: 2001
Ion Ratio Lower Upper
91 100
106 31.7 21.4 39.8

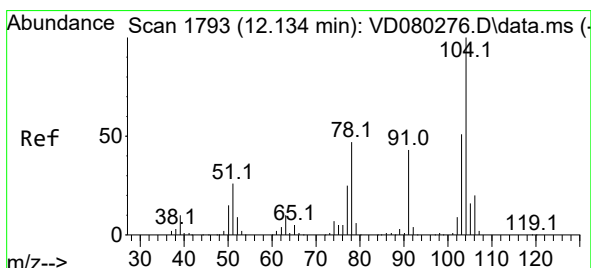
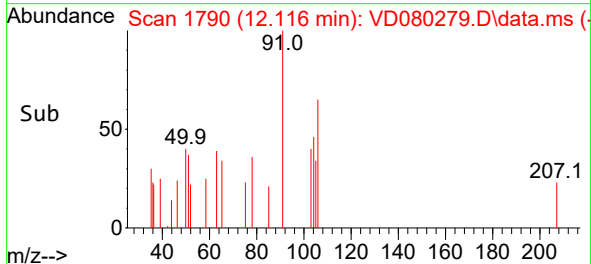
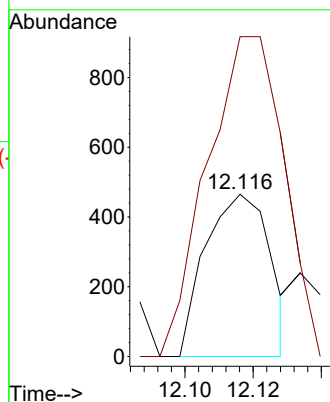
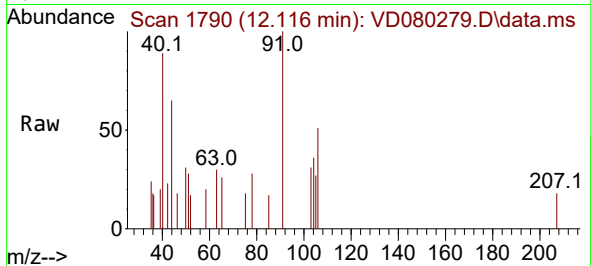




#54
o-Xylene
Concen: 0.12 ug/L
RT: 12.116 min Scan# 1790
Delta R.T. 0.000 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

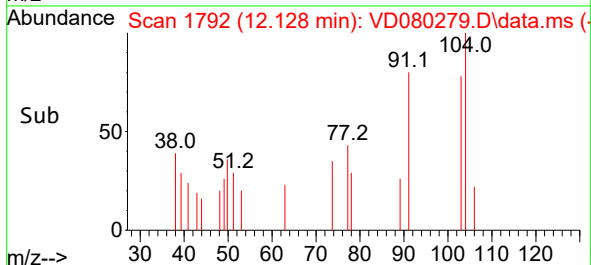
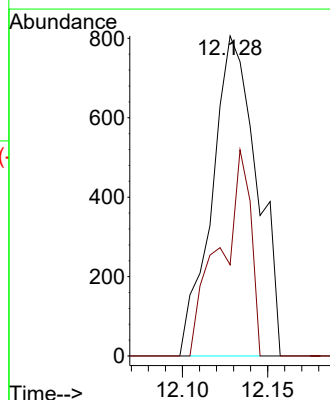
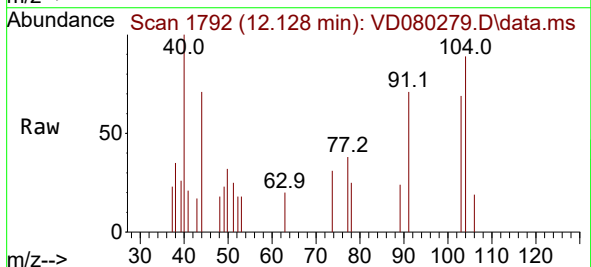
Instrument :
MSVOA_D
ClientSampleId :
VIBLK839

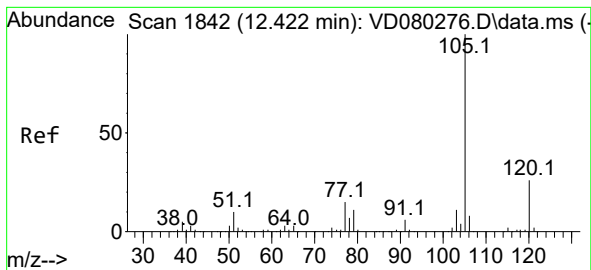
Tgt Ion:106 Resp: 615
Ion Ratio Lower Upper
106 100
91 197.2 156.5 290.7



#55
Styrene
Concen: 0.17 ug/L
RT: 12.128 min Scan# 1792
Delta R.T. -0.006 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

Tgt Ion:104 Resp: 1479
Ion Ratio Lower Upper
104 100
78 28.5 32.7 60.7#





#60

Isopropylbenzene

Concen: 0.16 ug/L

RT: 12.416 min Scan# 1841

Delta R.T. -0.006 min

Lab File: VD080279.D

Acq: 18 Mar 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

VIBLK839

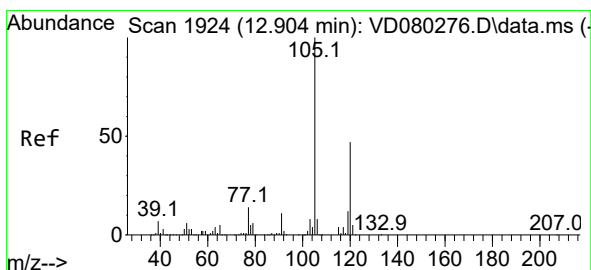
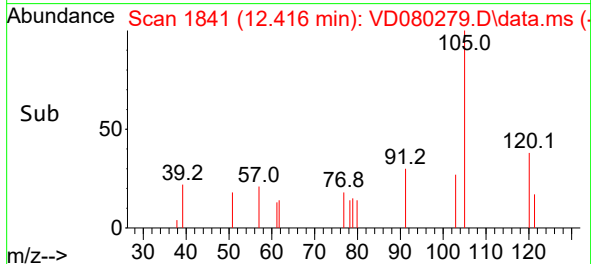
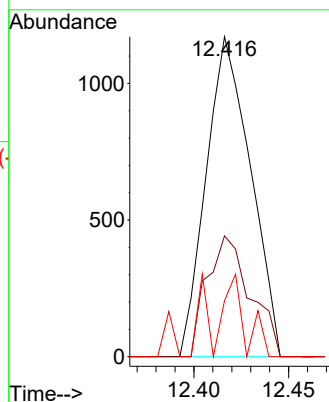
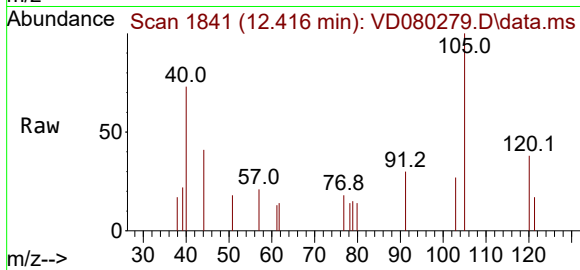
Tgt Ion:105 Resp: 1909

Ion Ratio Lower Upper

105 100

120 33.9 20.6 31.0#

77 9.4 12.5 18.7#



#62

1,3,5-Trimethylbenzene

Concen: 0.21 ug/L

RT: 13.210 min Scan# 1976

Delta R.T. 0.306 min

Lab File: VD080279.D

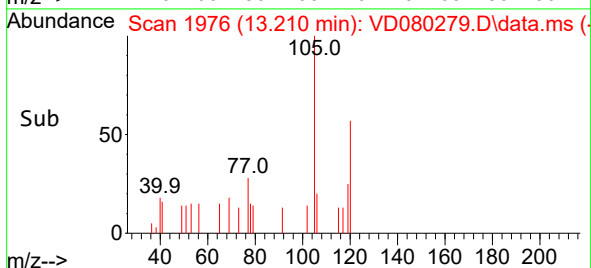
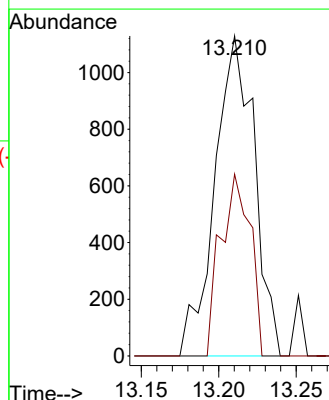
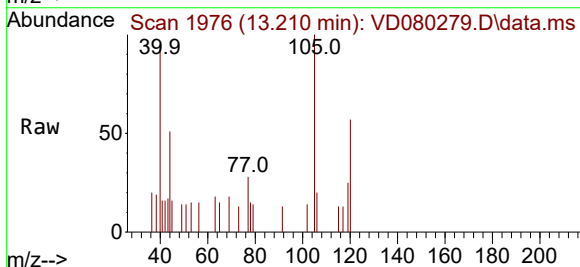
Acq: 18 Mar 2025 12:56

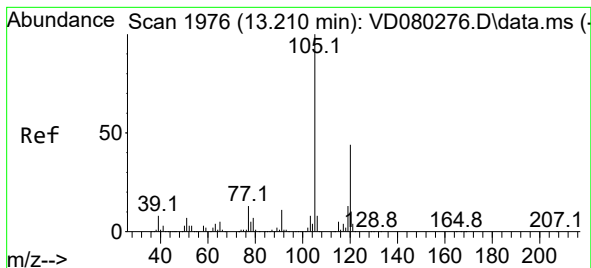
Tgt Ion:105 Resp: 2004

Ion Ratio Lower Upper

105 100

120 42.6 38.0 57.0





#63

1,2,4-Trimethylbenzene

Concen: 0.20 ug/L

RT: 13.210 min Scan# 1976

Delta R.T. 0.000 min

Lab File: VD080279.D

Acq: 18 Mar 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

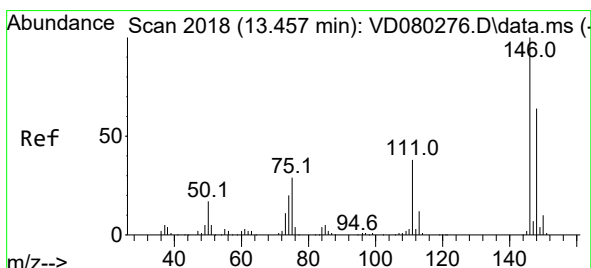
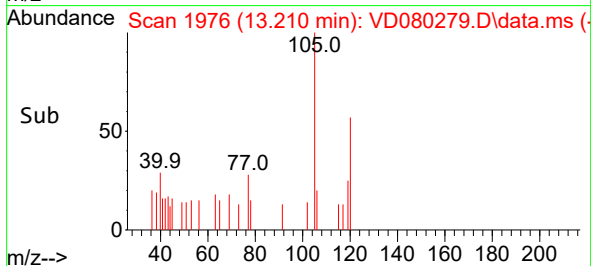
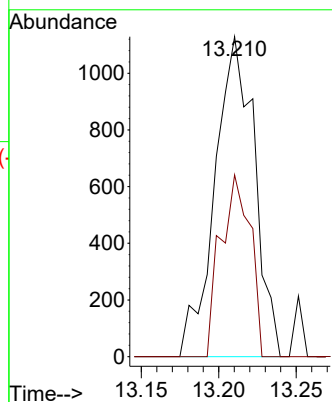
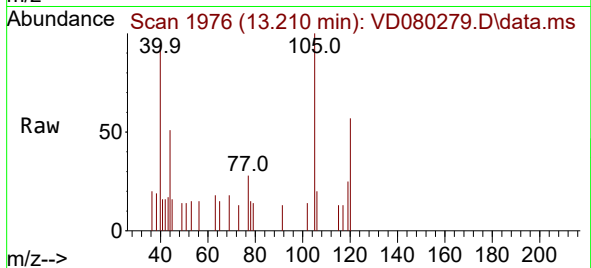
VIBLK839

Tgt Ion:105 Resp: 2004

Ion Ratio Lower Upper

105 100

120 42.6 36.2 54.4



#64

1,3-Dichlorobenzene

Concen: 0.36 ug/L

RT: 13.457 min Scan# 2018

Delta R.T. 0.000 min

Lab File: VD080279.D

Acq: 18 Mar 2025 12:56

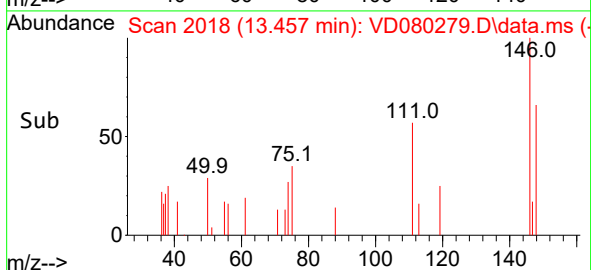
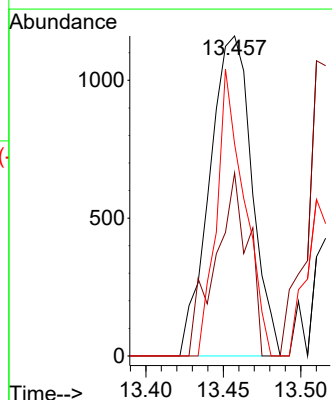
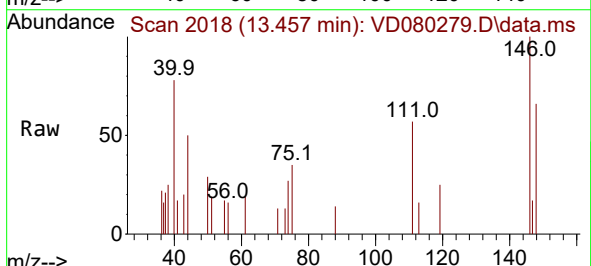
Tgt Ion:146 Resp: 2207

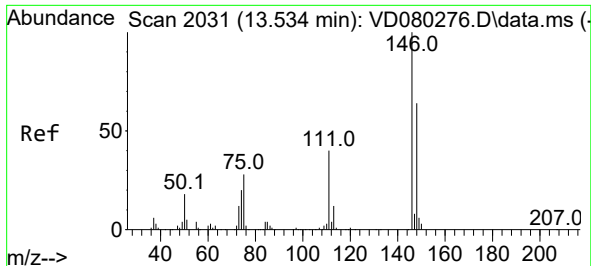
Ion Ratio Lower Upper

146 100

111 57.2 26.9 49.9#

148 66.2 44.5 82.7

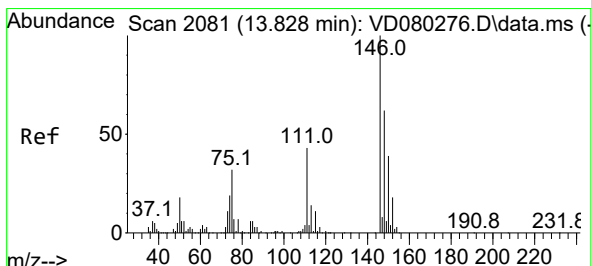
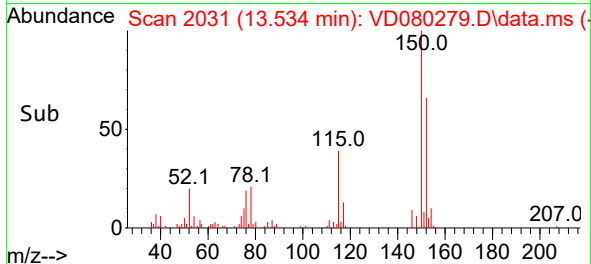
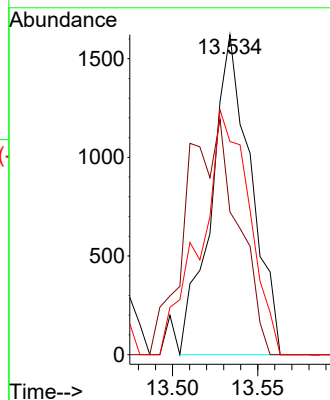
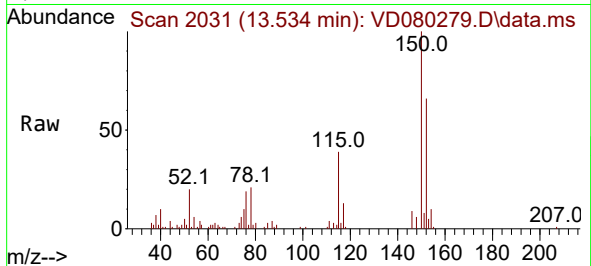




#65
1,4-Dichlorobenzene
Concen: 0.40 ug/L
RT: 13.534 min Scan# 2031
Delta R.T. -0.000 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

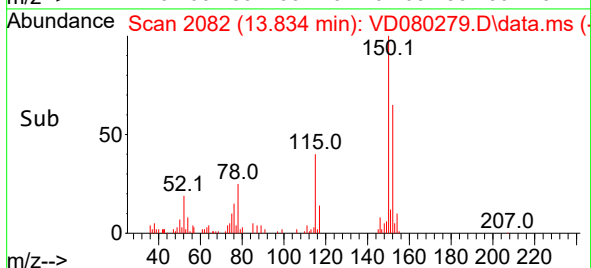
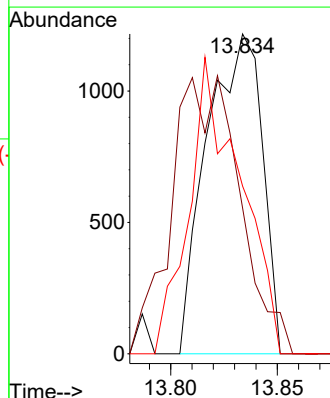
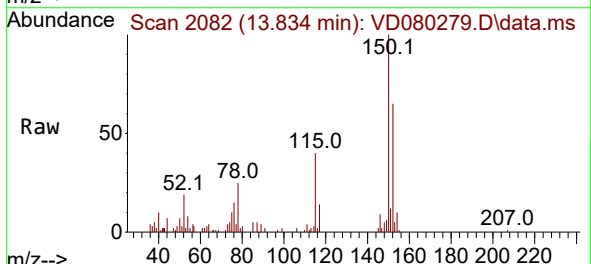
Instrument :
MSVOA_D
ClientSampleId :
VIBLK839

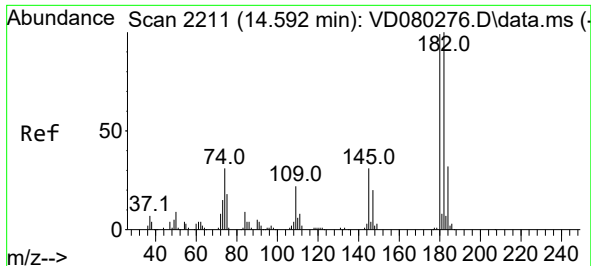
Tgt Ion:146	Resp:	2615
Ion	Ratio	Lower Upper
146	100	
111	44.6	27.9 51.7
148	66.6	45.1 83.9



#67
1,2-Dichlorobenzene
Concen: 0.39 ug/L
RT: 13.834 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VD080279.D
Acq: 18 Mar 2025 12:56

Tgt Ion:146	Resp:	2193
Ion	Ratio	Lower Upper
146	100	
111	45.6	34.2 51.2
148	52.4	49.8 74.8

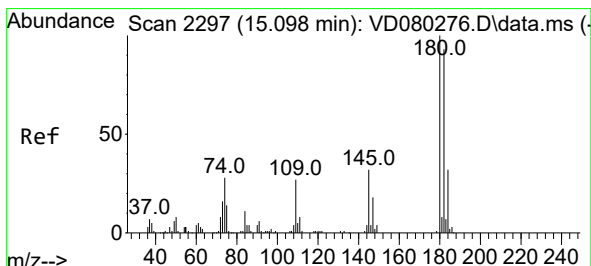
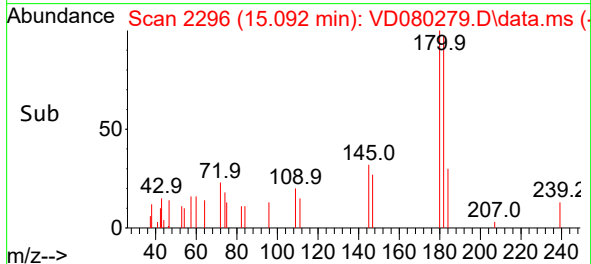
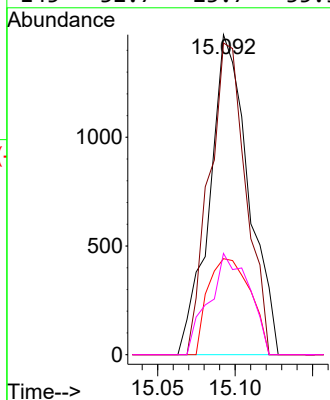
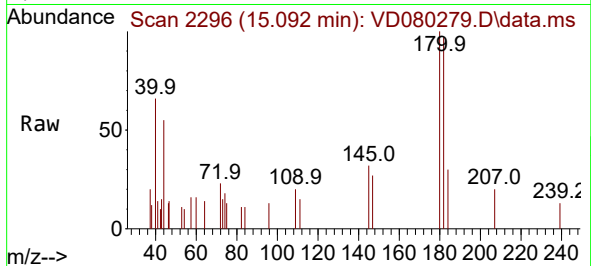




#69
 1,3,5-Trichlorobenzene
 Concen: 0.64 ug/L
 RT: 15.092 min Scan# 2211
 Delta R.T. 0.500 min
 Lab File: VD080279.D
 Acq: 18 Mar 2025 12:56

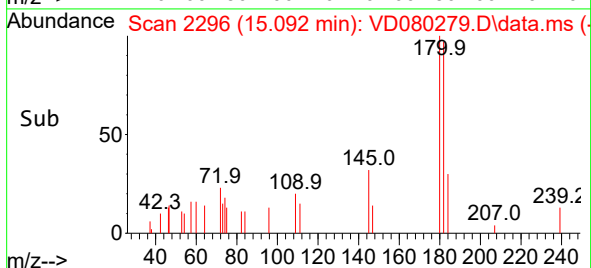
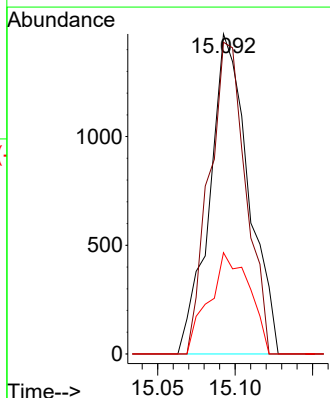
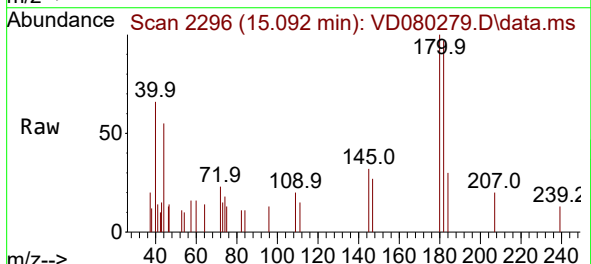
Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK839

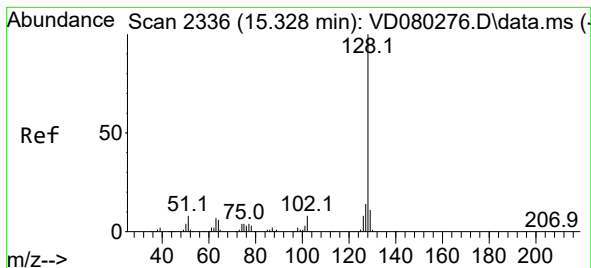
Tgt Ion:180	Resp:	2572
Ion Ratio	Lower	Upper
180	100	
182	91.4	77.0 115.4
184	32.7	24.0 36.0
145	32.7	23.7 35.5



#70
 1,2,4-trichlorobenzene
 Concen: 0.77 ug/L
 RT: 15.092 min Scan# 2296
 Delta R.T. -0.006 min
 Lab File: VD080279.D
 Acq: 18 Mar 2025 12:56

Tgt Ion:180	Resp:	2572
Ion Ratio	Lower	Upper
180	100	
182	91.4	75.4 113.0
145	32.7	23.1 34.7





#71

Naphthalene

Concen: 0.91 ug/L

RT: 15.328 min Scan# 21

Delta R.T. -0.000 min

Lab File: VD080279.D

Acq: 18 Mar 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

VIBLK839

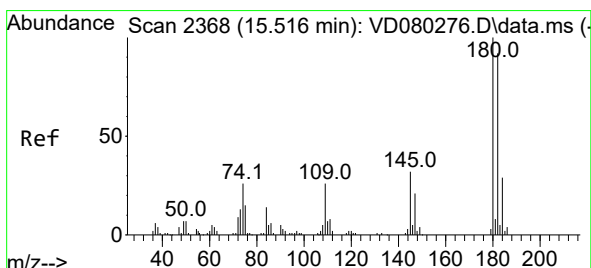
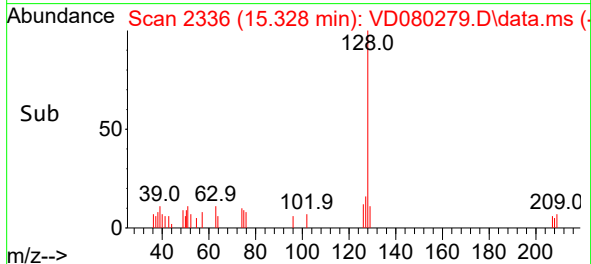
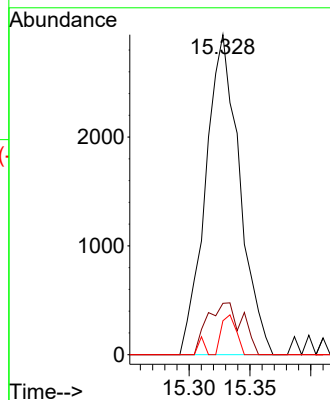
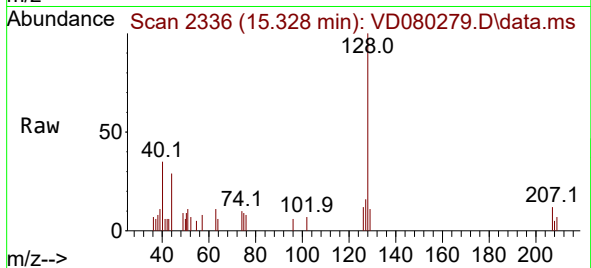
Tgt Ion:128 Resp: 5718

Ion Ratio Lower Upper

128 100

127 16.6 11.4 17.2

129 5.4 9.0 13.4#



#72

1,2,3-Trichlorobenzene

Concen: 0.79 ug/L

RT: 15.522 min Scan# 2369

Delta R.T. 0.006 min

Lab File: VD080279.D

Acq: 18 Mar 2025 12:56

Tgt Ion:180 Resp: 2407

Ion Ratio Lower Upper

180 100

182 88.7 73.8 110.6

145 34.8 24.8 37.2

