

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD061325\
 Data File : VD080438.D
 Acq On : 13 Jun 2025 14:18
 Operator : RP/MD
 Sample : VIBLK
 Misc : 5.00G/10ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK840

Quant Time: Jun 16 12:46:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM061325SMA.M
 Quant Title : SFAM01.0
 QLast Update : Mon Jun 16 11:17:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.776	114	248258	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	236539	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.517	152	106774	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.276	65	91836	21.55	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.20%
7) Chloroethane-d5	2.800	69	82300	22.96	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.84%
11) 1,1-Dichloroethene-d2	3.923	65	32677	22.29	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	89.16%
21) 2-Butanone-d5	6.993	46	36178	48.40	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.80%
24) Chloroform-d	7.570	84	157494	21.98	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	87.92%
26) 1,2-Dichloroethane-d4	8.229	65	81977	23.11	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.44%
32) Benzene-d6	8.199	84	313952	23.72	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	94.88%
36) 1,2-Dichloropropane-d6	9.211	67	102212	24.09	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.36%
41) Toluene-d8	10.270	98	286780	23.05	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.20%
43) trans-1,3-Dichloroprop...	10.523	79	41706	23.40	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.60%
47) 2-Hexanone-d5	10.876	63	28944	45.00	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.00%
56) 1,1,2,2-Tetrachloroeth...	12.646	84	85712	22.82	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.28%
66) 1,2-Dichlorobenzene-d4	13.811	152	102113	25.65	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.60%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.935	85	822	0.21	ug/L #	83
3) Chloromethane	2.153	50	1555	0.39	ug/L	91
5) Vinyl chloride	2.288	62	1278	0.27	ug/L #	1
6) Bromomethane	2.705	94	2927	1.18	ug/L	95
16) Methylene chloride	4.805	84	14344	2.57	ug/L	98
25) Chloroform	7.593	83	7813	1.07	ug/L	92
31) Carbon tetrachloride	7.982	117	485	0.09	ug/L #	63
33) Benzene	8.252	78	2604	0.18	ug/L	100
42) Toluene	10.334	91	3504	0.22	ug/L	87
44) trans-1,3-Dichloropropene	10.529	75	1709	0.33	ug/L	90
45) 1,1,2-Trichloroethane	10.729	97	563	0.17	ug/L #	65
46) Tetrachloroethene	10.811	164	640	0.18	ug/L	95
51) Chlorobenzene	11.599	112	2620	0.24	ug/L #	75
52) Ethylbenzene	11.681	91	3121	0.18	ug/L	89
54) o-Xylene	12.123	106	1062	0.17	ug/L	80
55) Styrene	12.140	104	2219	0.20	ug/L	97
60) Isopropylbenzene	12.423	105	2834	0.20	ug/L #	95
61) 1,2,3-Trichloropropane	12.728	75	538	0.24	ug/L #	47
62) 1,3,5-Trimethylbenzene	12.899	105	2427	0.22	ug/L	99

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Quant Title : SFAM01.0
QLast Update : Mon Jun 16 11:17:50 2025
Response via : Initial Calibration

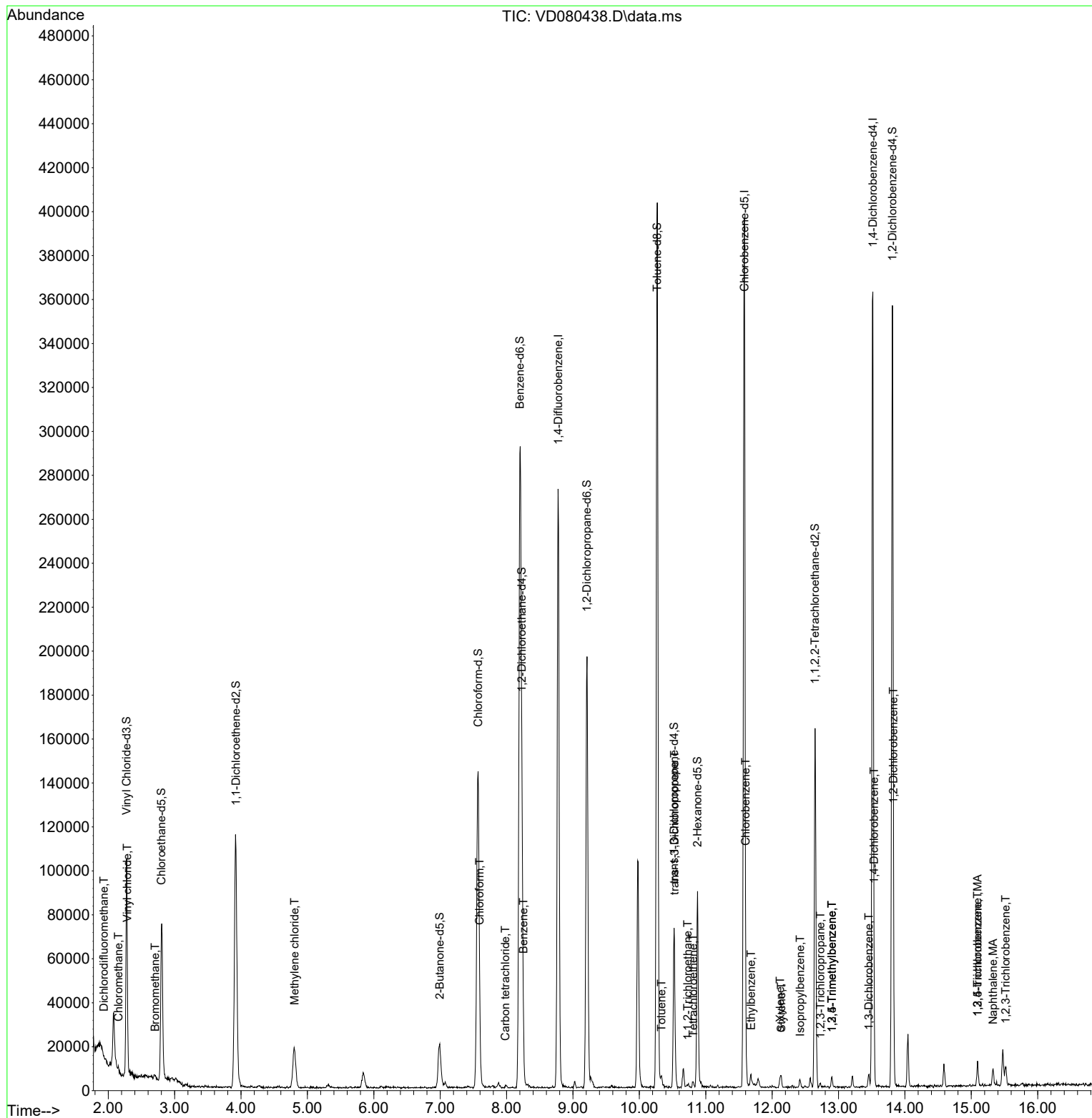
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	12.899	105	2427	0.22	ug/L	95
64) 1,3-Dichlorobenzene	13.458	146	3042	0.41	ug/L	94
65) 1,4-Dichlorobenzene	13.534	146	3764	0.49	ug/L	84
67) 1,2-Dichlorobenzene	13.828	146	3137	0.46	ug/L #	88
69) 1,3,5-Trichlorobenzene	15.093	180	3595	0.71	ug/L	92
70) 1,2,4-trichlorobenzene	15.093	180	3595	0.84	ug/L	89
71) Naphthalene	15.328	128	7383	0.97	ug/L #	83
72) 1,2,3-Trichlorobenzene	15.517	180	3940	1.00	ug/L #	96

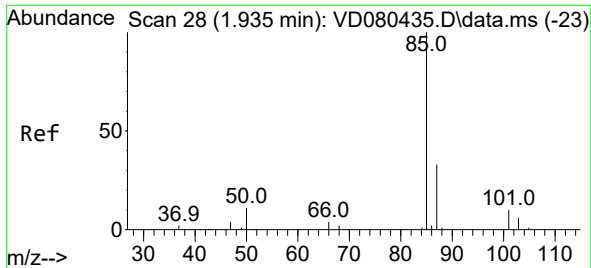
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM061325SMA.M
Quant Title : SFAM01.0
QLast Update : Mon Jun 16 11:17:50 2025
Response via : Initial Calibration

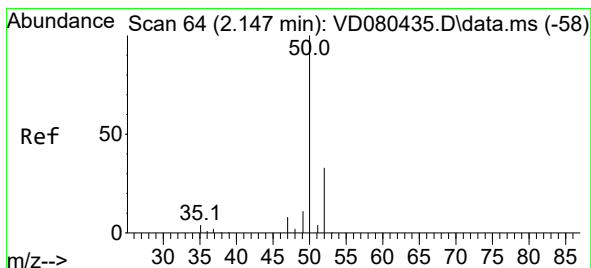
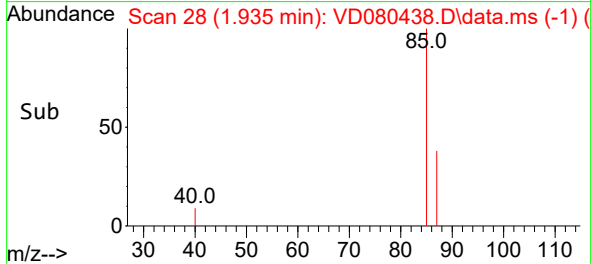
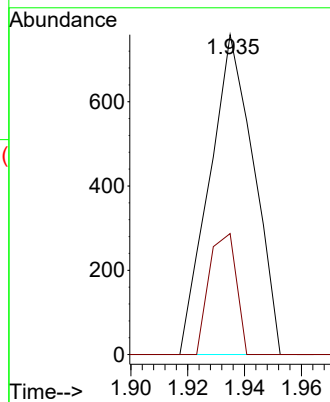
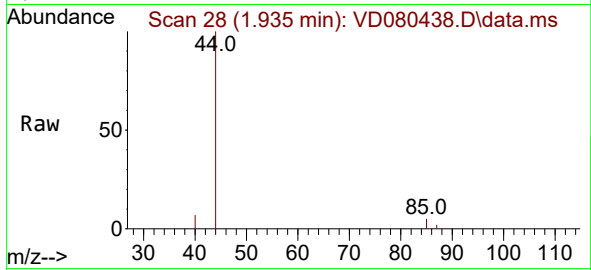




#2
 Dichlorodifluoromethane
 Concen: 0.21 ug/L
 RT: 1.935 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VD080438.D
 Acq: 13 Jun 2025 14:18

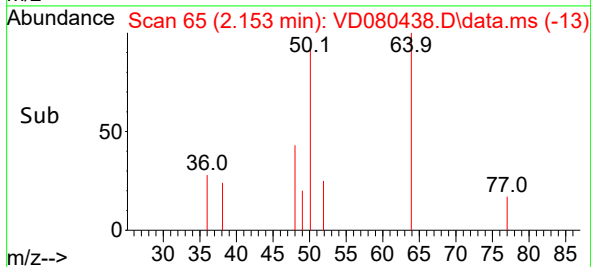
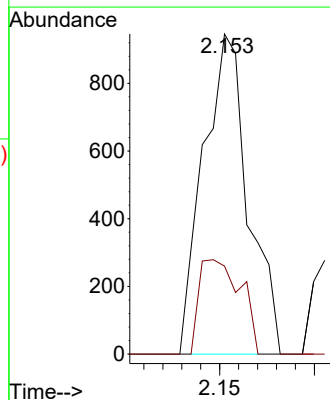
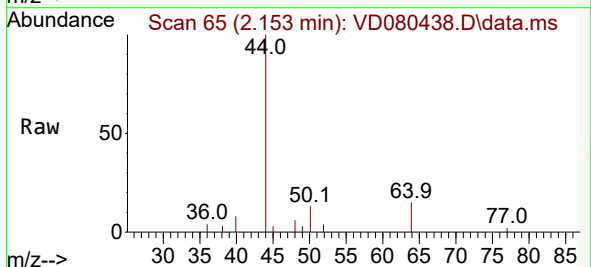
Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK840

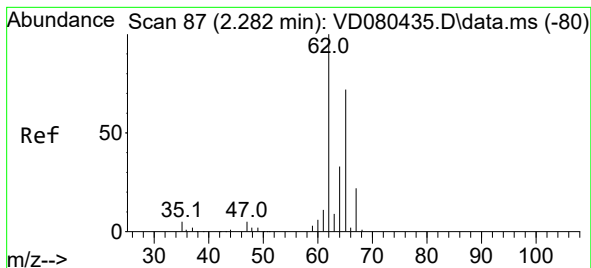
Tgt Ion: 85 Resp: 822
 Ion Ratio Lower Upper
 85 100
 87 23.4 26.2 39.4#



#3
 Chloromethane
 Concen: 0.39 ug/L
 RT: 2.153 min Scan# 65
 Delta R.T. 0.006 min
 Lab File: VD080438.D
 Acq: 13 Jun 2025 14:18

Tgt Ion: 50 Resp: 1555
 Ion Ratio Lower Upper
 50 100
 52 27.5 22.9 42.5





#5

Vinyl chloride

Concen: 0.27 ug/L

RT: 2.288 min Scan# 87

Delta R.T. 0.006 min

Lab File: VD080438.D

Acq: 13 Jun 2025 14:18

Instrument :

MSVOA_D

ClientSampleId :

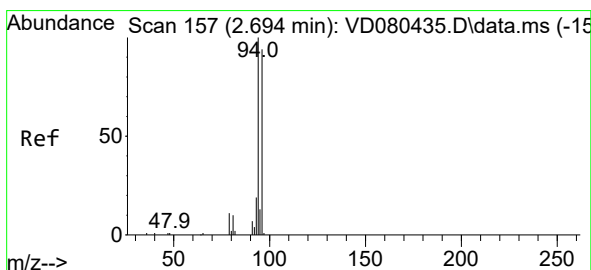
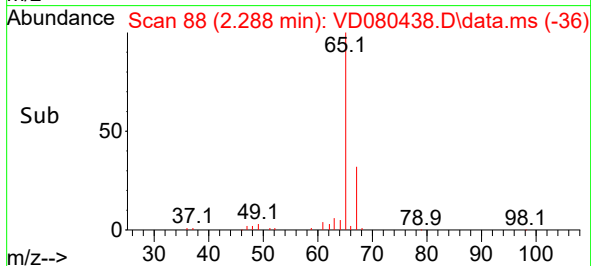
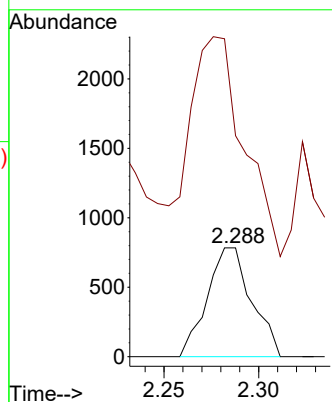
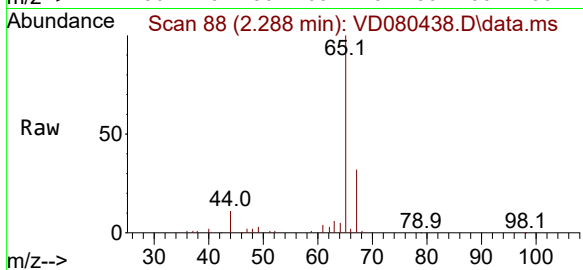
VIBLK840

Tgt Ion: 62 Resp: 1278

Ion Ratio Lower Upper

62 100

64 202.9 24.4 45.4#



#6

Bromomethane

Concen: 1.18 ug/L

RT: 2.705 min Scan# 159

Delta R.T. 0.011 min

Lab File: VD080438.D

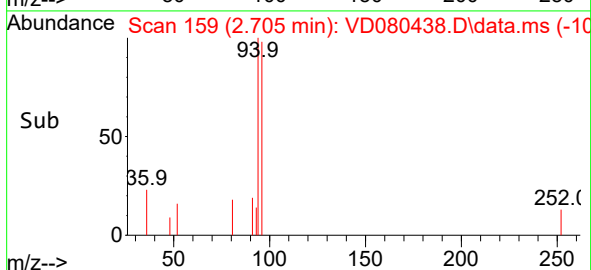
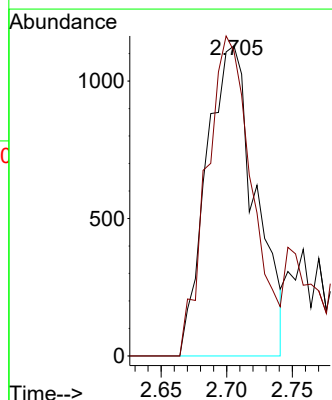
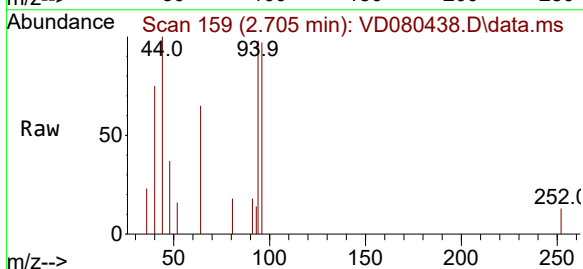
Acq: 13 Jun 2025 14:18

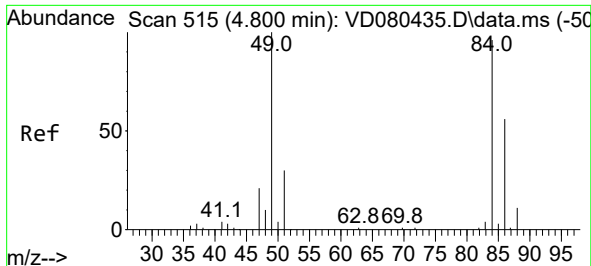
Tgt Ion: 94 Resp: 2927

Ion Ratio Lower Upper

94 100

96 98.3 65.5 121.7

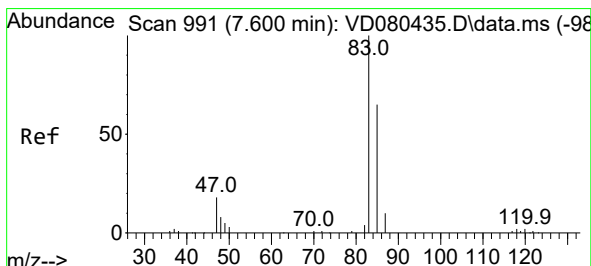
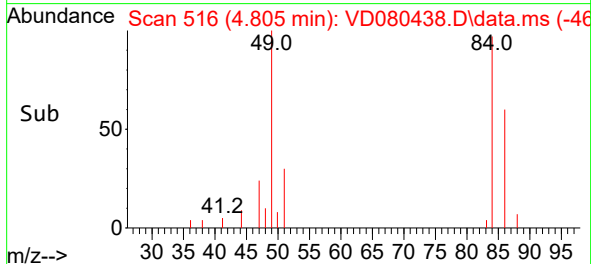
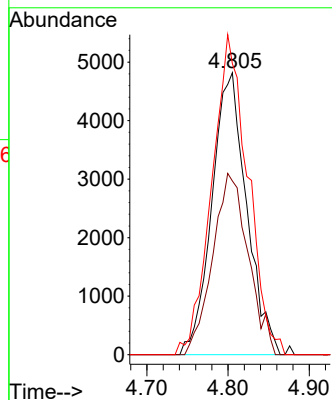
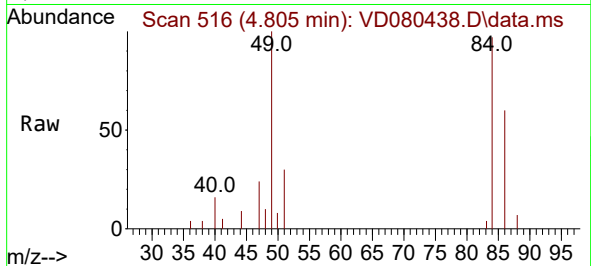




#16
Methylene chloride
Concen: 2.57 ug/L
RT: 4.805 min Scan# 515
Delta R.T. 0.005 min
Lab File: VD080438.D
Acq: 13 Jun 2025 14:18

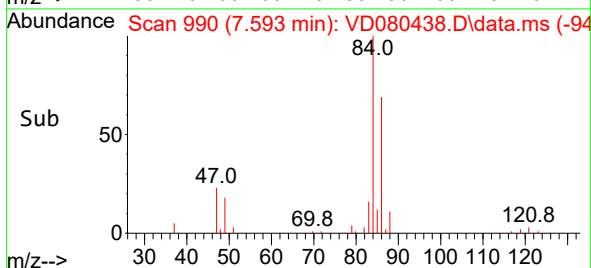
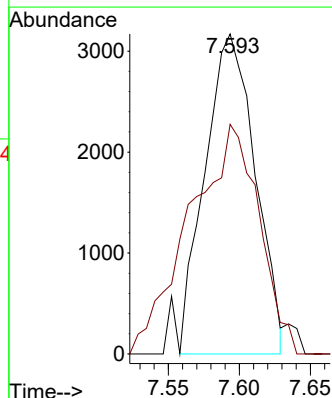
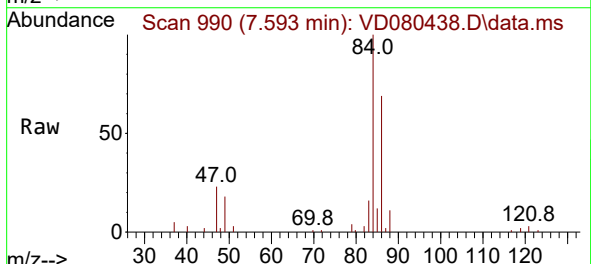
Instrument :
MSVOA_D
ClientSampleId :
VIBLK840

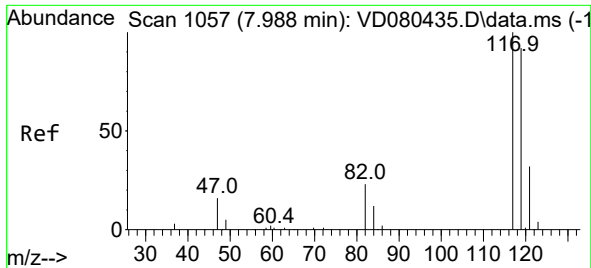
Tgt Ion: 84 Resp: 14344
Ion Ratio Lower Upper
84 100
86 61.6 40.9 75.9
49 103.2 72.8 135.2



#25
Chloroform
Concen: 1.07 ug/L
RT: 7.593 min Scan# 990
Delta R.T. -0.007 min
Lab File: VD080438.D
Acq: 13 Jun 2025 14:18

Tgt Ion: 83 Resp: 7813
Ion Ratio Lower Upper
83 100
85 71.8 45.8 85.0

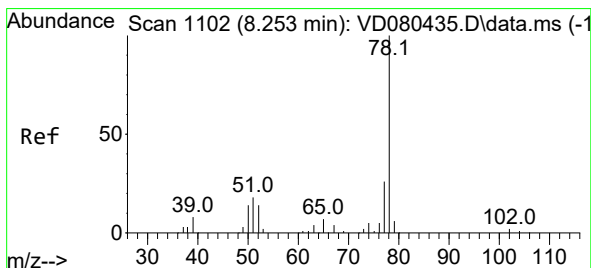
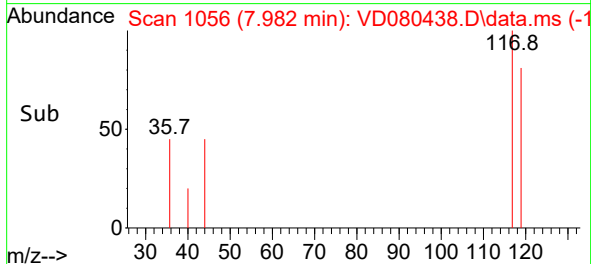
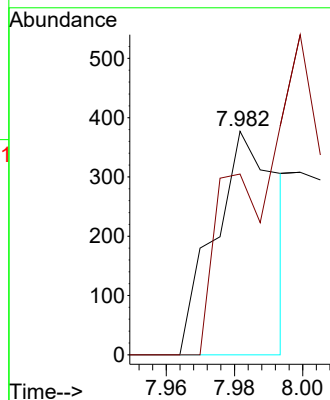
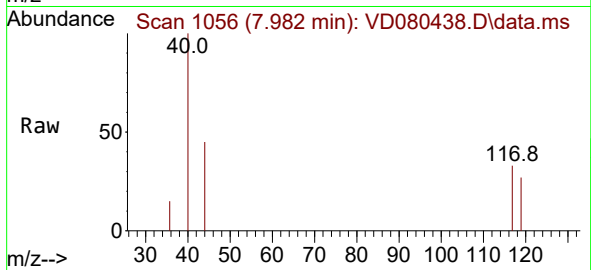




#31
Carbon tetrachloride
Concen: 0.09 ug/L
RT: 7.982 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VD080438.D
Acq: 13 Jun 2025 14:18

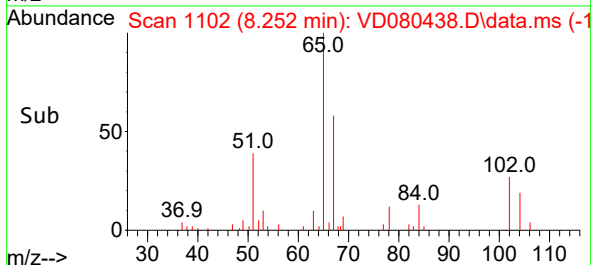
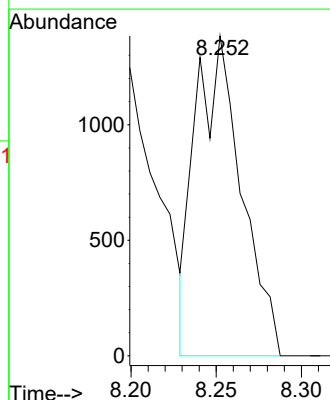
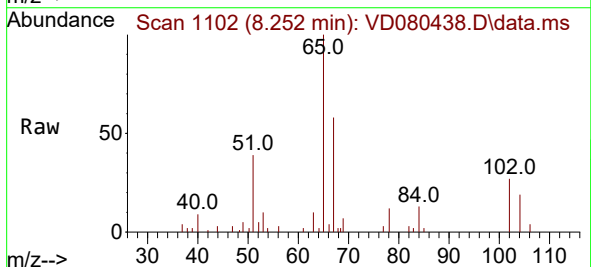
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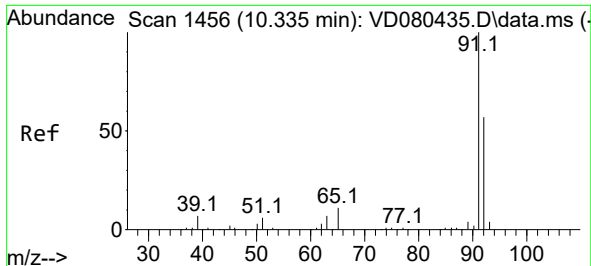
Tgt Ion:117 Resp: 485
Ion Ratio Lower Upper
117 100
119 60.2 77.0 115.6#



#33
Benzene
Concen: 0.18 ug/L
RT: 8.252 min Scan# 1102
Delta R.T. -0.001 min
Lab File: VD080438.D
Acq: 13 Jun 2025 14:18

Tgt Ion: 78 Resp: 2604





#42

Toluene

Concen: 0.22 ug/L

RT: 10.334 min Scan# 1456

Delta R.T. -0.001 min

Lab File: VD080438.D

Acq: 13 Jun 2025 14:18

Instrument :

MSVOA_D

ClientSampleId :

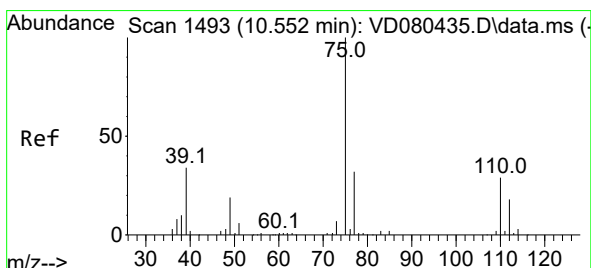
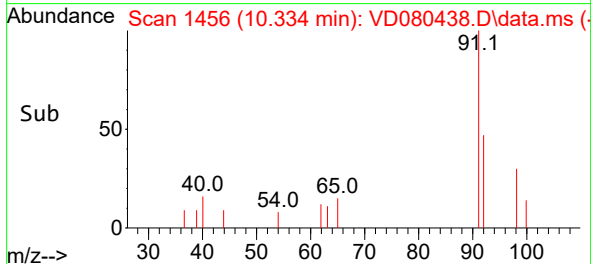
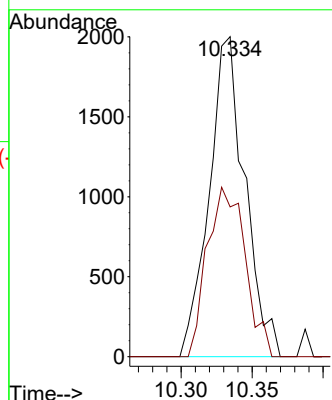
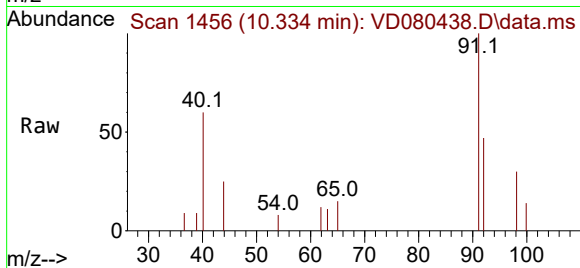
VIBLK840

Tgt Ion: 91 Resp: 3504

Ion Ratio Lower Upper

91 100

92 46.8 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 0.33 ug/L

RT: 10.529 min Scan# 1489

Delta R.T. -0.023 min

Lab File: VD080438.D

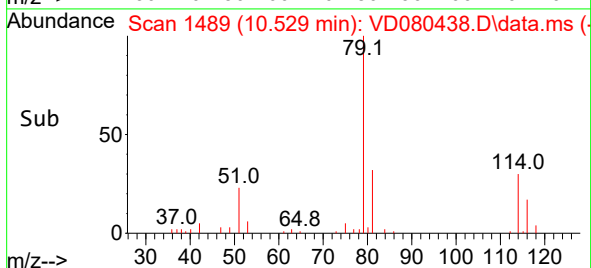
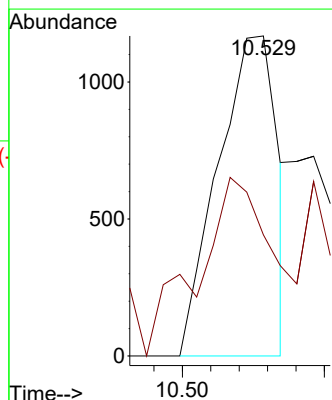
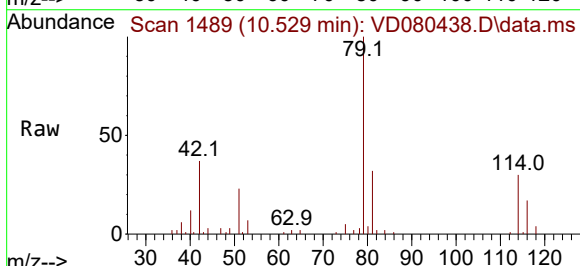
Acq: 13 Jun 2025 14:18

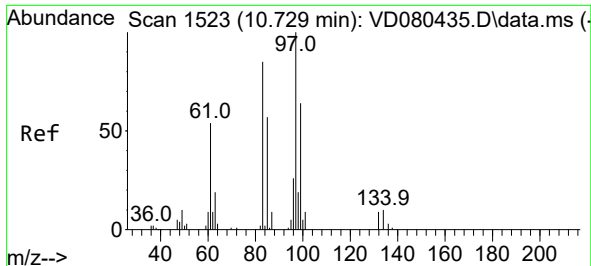
Tgt Ion: 75 Resp: 1709

Ion Ratio Lower Upper

75 100

77 37.8 22.6 42.0

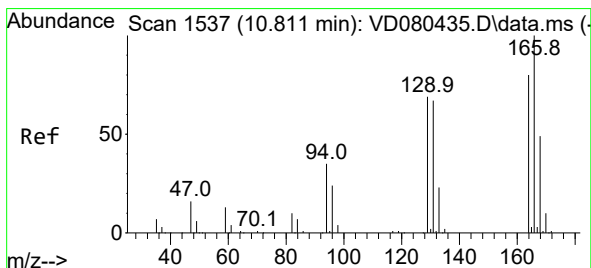
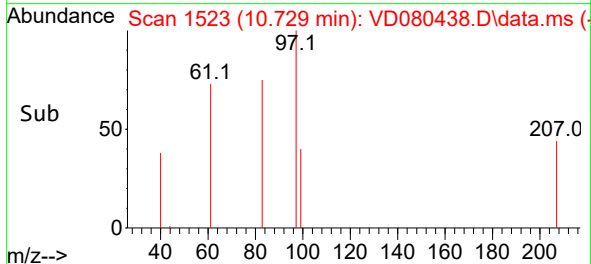
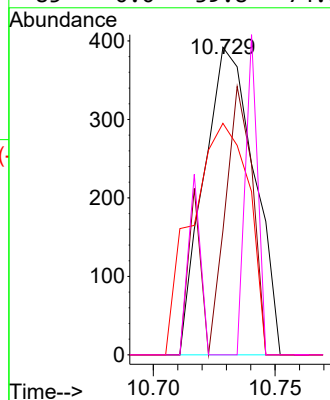
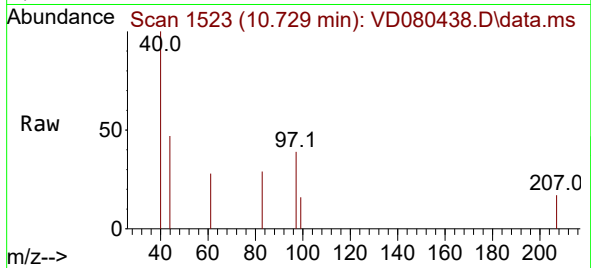




#45
1,1,2-Trichloroethane
Concen: 0.17 ug/L
RT: 10.729 min Scan# 1523
Delta R.T. -0.000 min
Lab File: VD080438.D
Acq: 13 Jun 2025 14:18

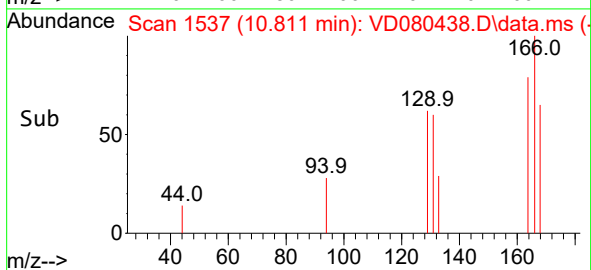
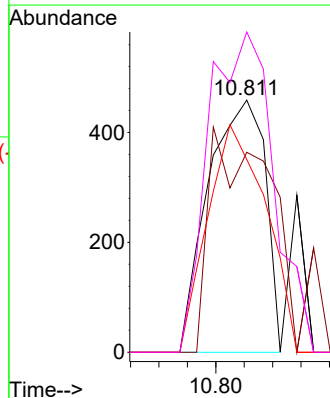
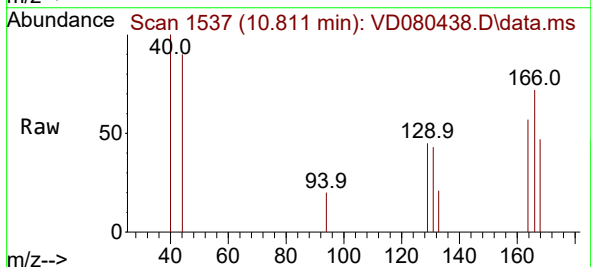
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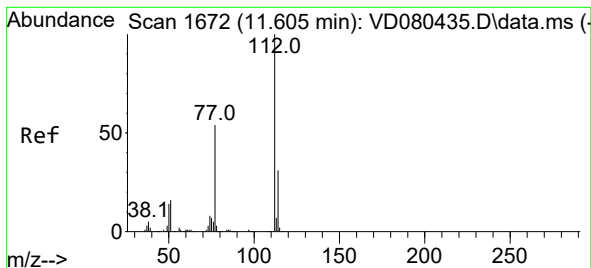
Tgt Ion: 97	Resp:	563	
Ion	Ratio	Lower	Upper
97	100		
99	40.3	44.8	83.2#
83	75.3	59.7	110.9
85	0.0	39.8	74.0#



#46
Tetrachloroethene
Concen: 0.18 ug/L
RT: 10.811 min Scan# 1537
Delta R.T. -0.000 min
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Tgt Ion:164	Resp:	640	
Ion	Ratio	Lower	Upper
164	100		
129	79.3	60.2	111.8
131	76.5	58.3	108.3
166	127.0	87.5	162.5





#51

Chlorobenzene

Concen: 0.24 ug/L

RT: 11.599 min Scan# 1

Delta R.T. -0.006 min

Lab File: VD080438.D

Acq: 13 Jun 2025 14:18

Instrument :

MSVOA_D

ClientSampleId :

VIBLK840

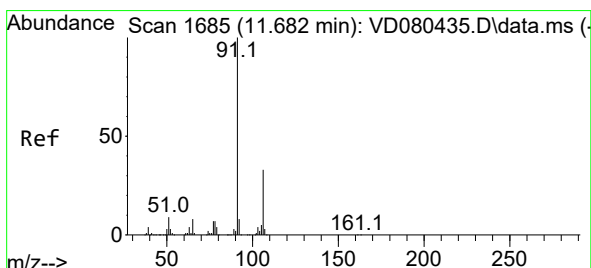
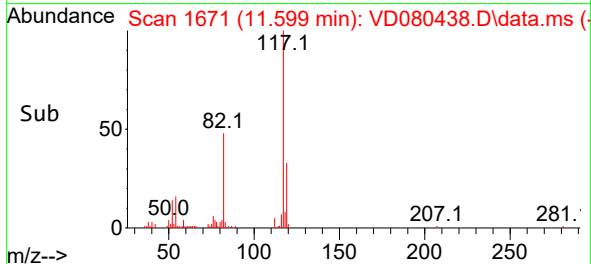
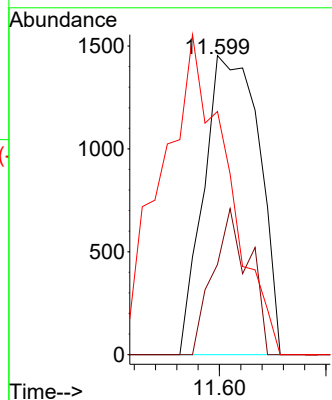
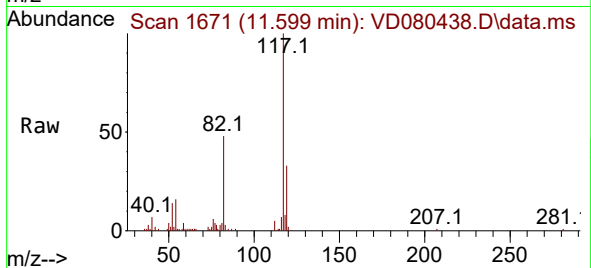
Tgt Ion:112 Resp: 2620

Ion Ratio Lower Upper

112 100

114 30.1 21.9 40.7

77 81.3 43.4 65.2#



#52

Ethylbenzene

Concen: 0.18 ug/L

RT: 11.681 min Scan# 1685

Delta R.T. -0.001 min

Lab File: VD080438.D

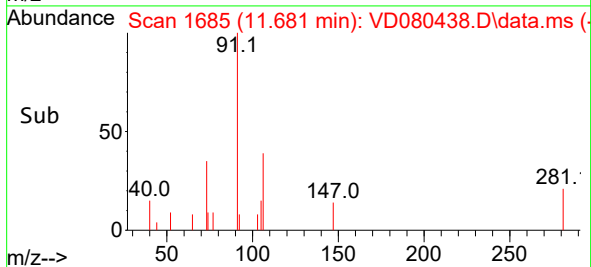
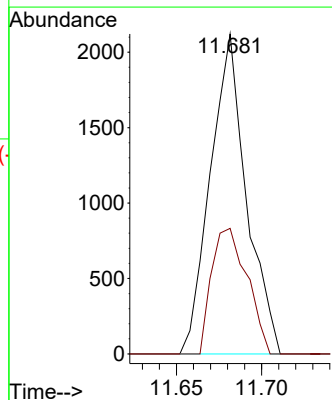
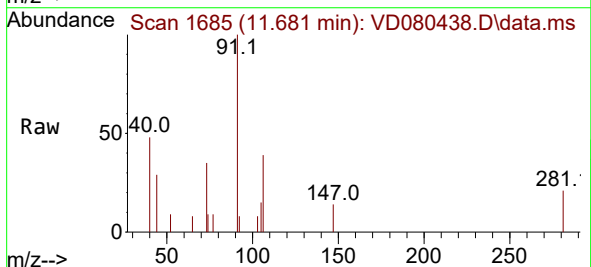
Acq: 13 Jun 2025 14:18

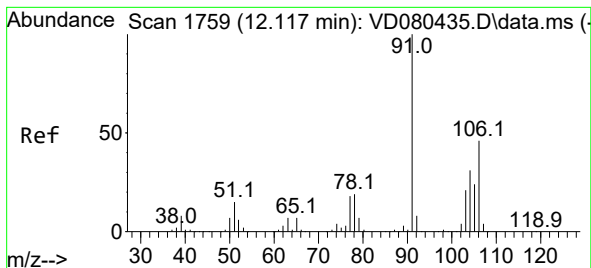
Tgt Ion: 91 Resp: 3121

Ion Ratio Lower Upper

91 100

106 39.2 23.0 42.6





#54

o-Xylene

Concen: 0.17 ug/L

RT: 12.123 min Scan# 1760

Delta R.T. 0.006 min

Lab File: VD080438.D

Acq: 13 Jun 2025 14:18

Instrument :

MSVOA_D

ClientSampleId :

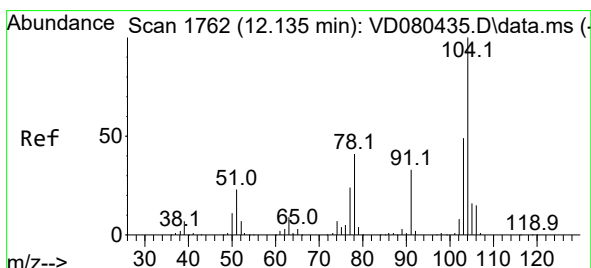
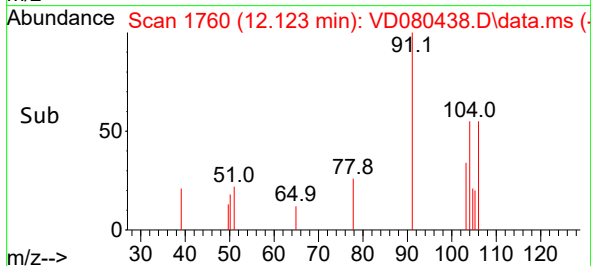
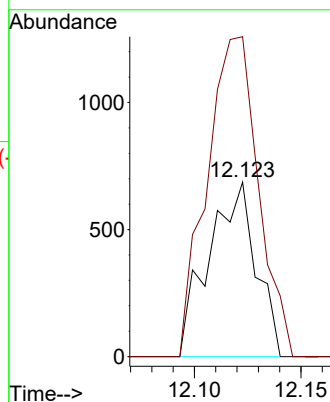
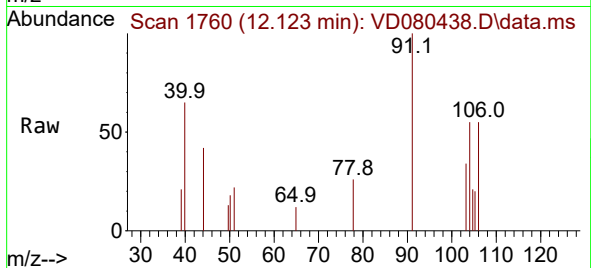
VIBLK840

Tgt Ion:106 Resp: 1062

Ion Ratio Lower Upper

106 100

91 183.3 150.8 280.0



#55

Styrene

Concen: 0.20 ug/L

RT: 12.140 min Scan# 1763

Delta R.T. 0.005 min

Lab File: VD080438.D

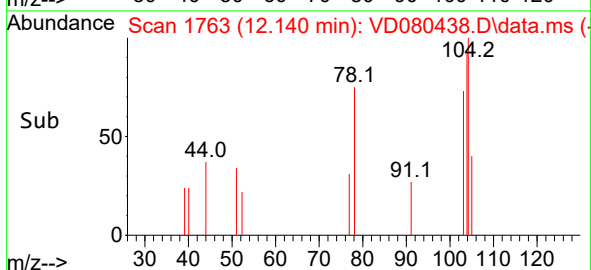
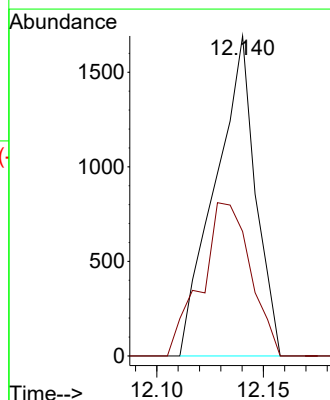
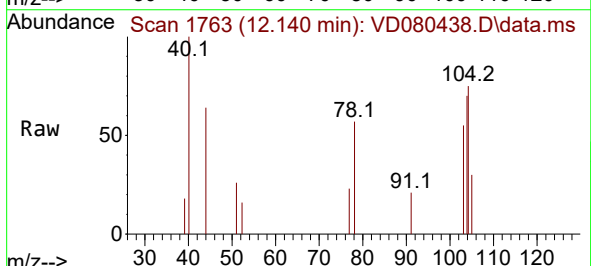
Acq: 13 Jun 2025 14:18

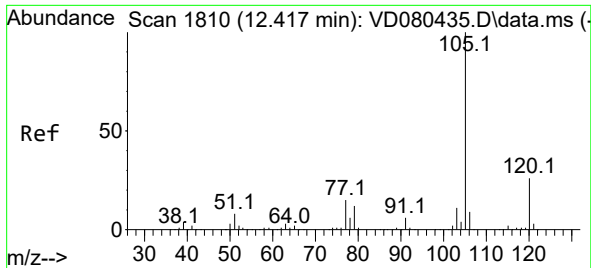
Tgt Ion:104 Resp: 2219

Ion Ratio Lower Upper

104 100

78 38.9 28.7 53.3

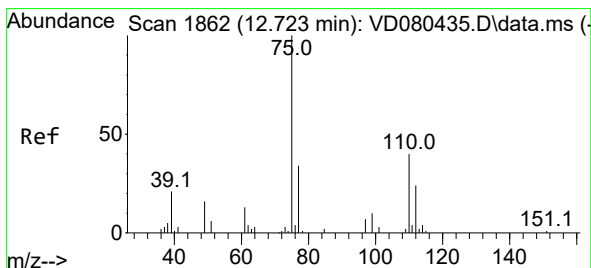
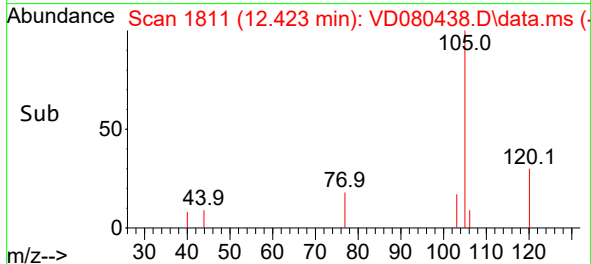
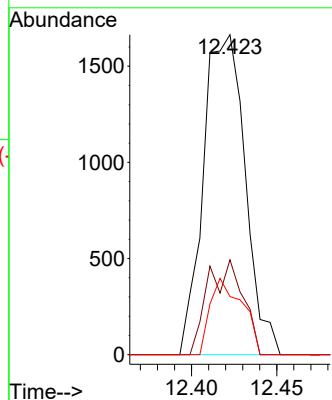
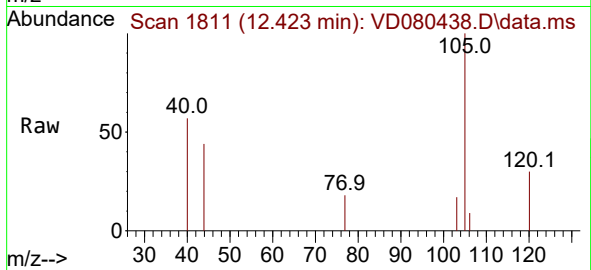




#60
Isopropylbenzene
Concen: 0.20 ug/L
RT: 12.423 min Scan# 1811
Delta R.T. 0.006 min
Lab File: VD080438.D
Acq: 13 Jun 2025 14:18

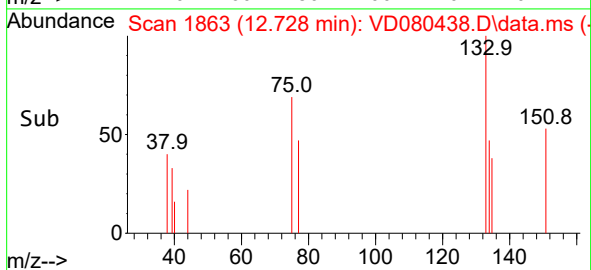
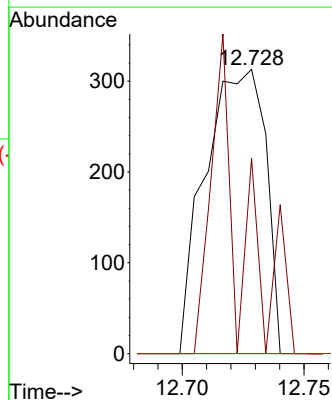
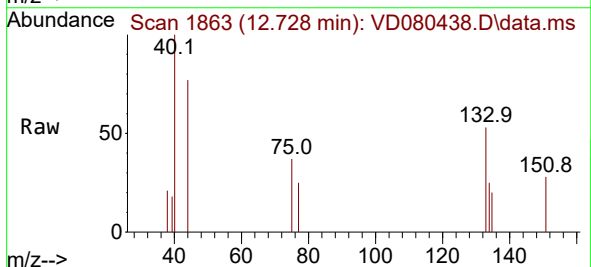
Instrument :
MSVOA_D
ClientSampleId :
VIBLK840

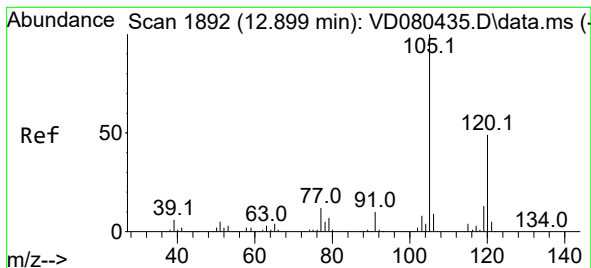
Tgt Ion:105 Resp: 2834
Ion Ratio Lower Upper
105 100
120 24.9 21.4 32.0
77 18.3 11.8 17.8#



#61
1,2,3-Trichloropropane
Concen: 0.24 ug/L
RT: 12.728 min Scan# 1863
Delta R.T. 0.005 min
Lab File: VD080438.D
Acq: 13 Jun 2025 14:18

Tgt Ion: 75 Resp: 538
Ion Ratio Lower Upper
75 100
77 10.8 25.9 38.9#
110 0.0 31.4 47.0#

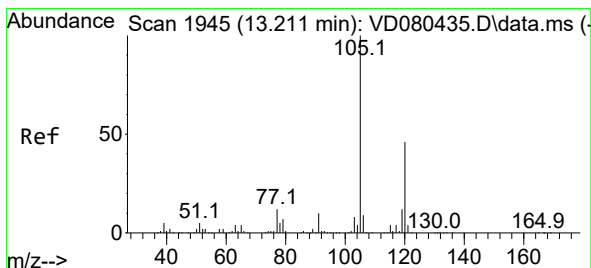
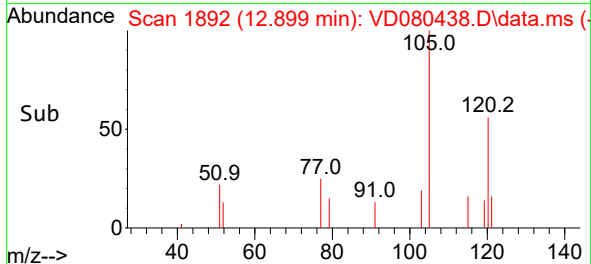
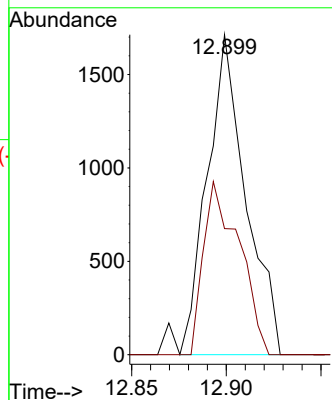
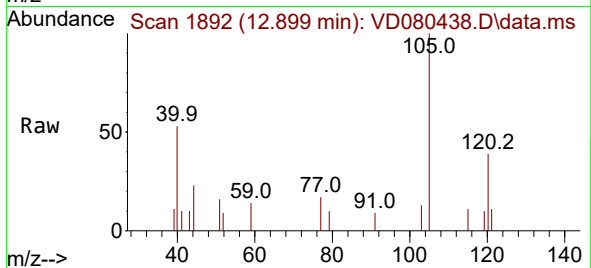




#62
 1,3,5-Trimethylbenzene
 Concen: 0.22 ug/L
 RT: 12.899 min Scan# 1892
 Delta R.T. 0.000 min
 Lab File: VD080438.D
 Acq: 13 Jun 2025 14:18

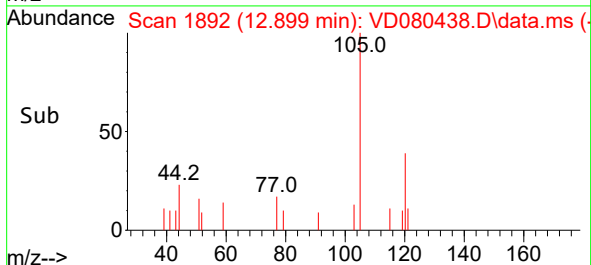
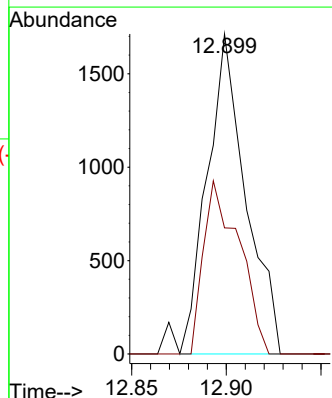
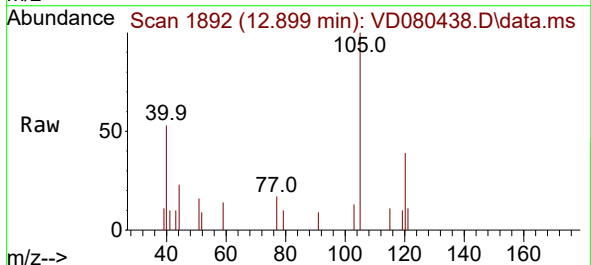
Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK840

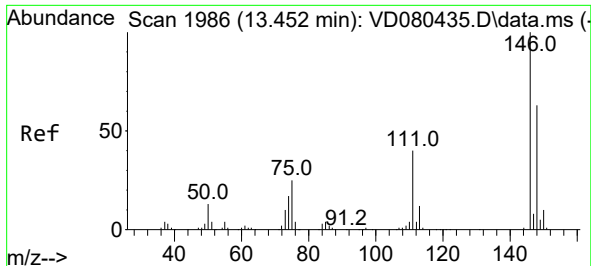
Tgt Ion:105 Resp: 2427
 Ion Ratio Lower Upper
 105 100
 120 50.1 39.8 59.6



#63
 1,2,4-Trimethylbenzene
 Concen: 0.22 ug/L
 RT: 12.899 min Scan# 1892
 Delta R.T. -0.312 min
 Lab File: VD080438.D
 Acq: 13 Jun 2025 14:18

Tgt Ion:105 Resp: 2427
 Ion Ratio Lower Upper
 105 100
 120 50.1 37.3 55.9

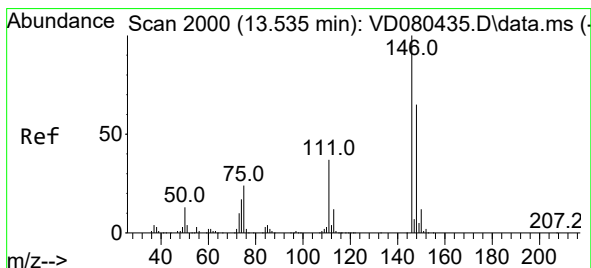
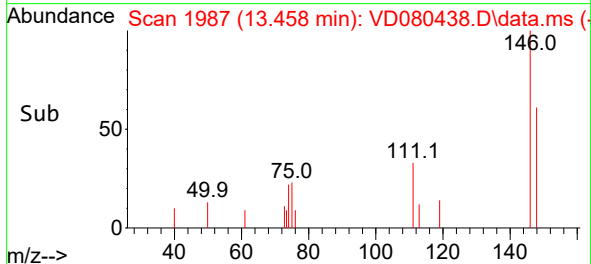
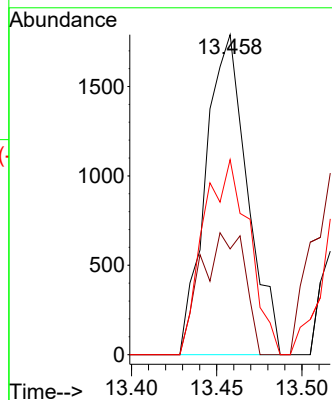
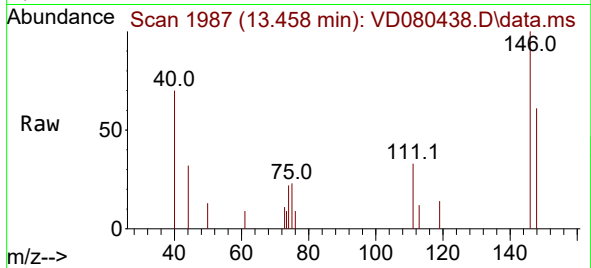




#64
1,3-Dichlorobenzene
Concen: 0.41 ug/L
RT: 13.458 min Scan# 1986
Delta R.T. 0.006 min
Lab File: VD080438.D
Acq: 13 Jun 2025 14:18

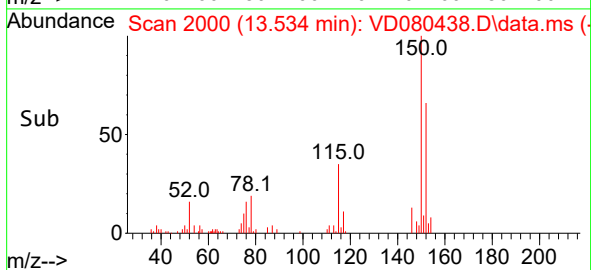
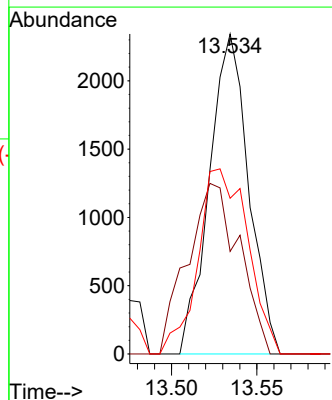
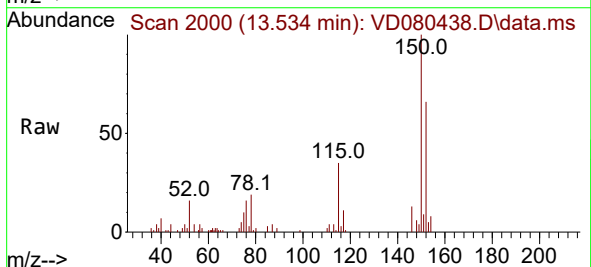
Instrument :
MSVOA_D
ClientSampleId :
VIBLK840

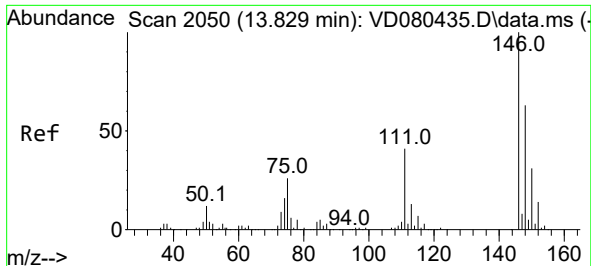
Tgt Ion:146 Resp: 3042
Ion Ratio Lower Upper
146 100
111 33.0 28.1 52.3
148 60.9 44.1 81.9



#65
1,4-Dichlorobenzene
Concen: 0.49 ug/L
RT: 13.534 min Scan# 2000
Delta R.T. -0.001 min
Lab File: VD080438.D
Acq: 13 Jun 2025 14:18

Tgt Ion:146 Resp: 3764
Ion Ratio Lower Upper
146 100
111 32.1 26.0 48.4
148 48.7 45.4 84.2





#67

1,2-Dichlorobenzene

Concen: 0.46 ug/L

RT: 13.828 min Scan# 2050

Delta R.T. -0.001 min

Lab File: VD080438.D

Acq: 13 Jun 2025 14:18

Instrument :

MSVOA_D

ClientSampleId :

VIBLK840

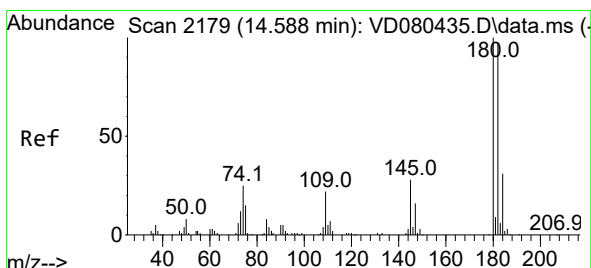
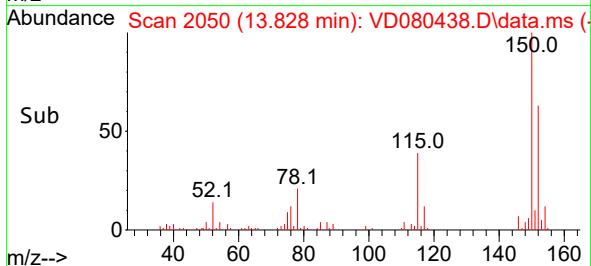
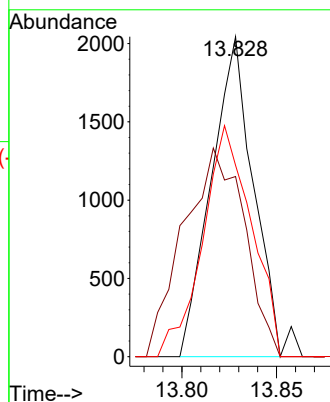
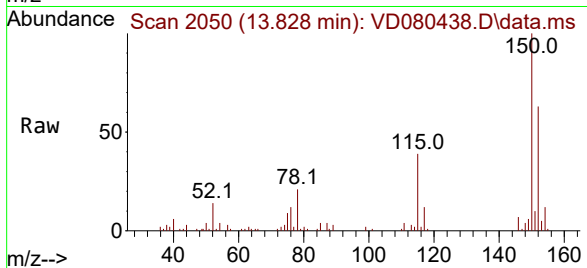
Tgt Ion:146 Resp: 3137

Ion Ratio Lower Upper

146 100

111 56.3 32.9 49.3#

148 59.8 50.3 75.5



#69

1,3,5-Trichlorobenzene

Concen: 0.71 ug/L

RT: 15.093 min Scan# 2265

Delta R.T. 0.505 min

Lab File: VD080438.D

Acq: 13 Jun 2025 14:18

Tgt Ion:180 Resp: 3595

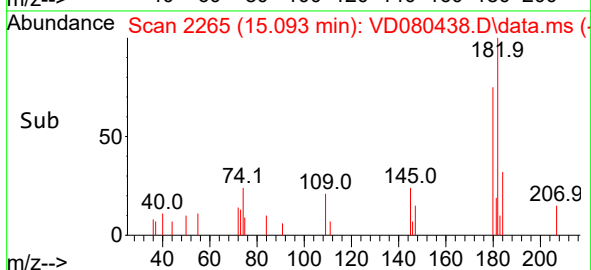
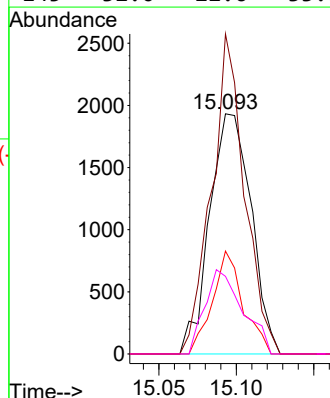
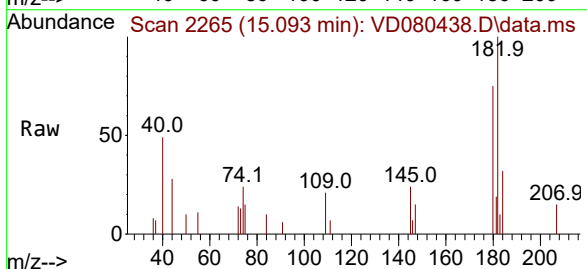
Ion Ratio Lower Upper

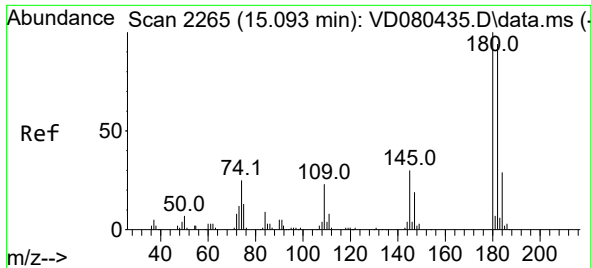
180 100

182 106.2 76.3 114.5

184 31.7 25.1 37.7

145 32.0 22.6 33.8

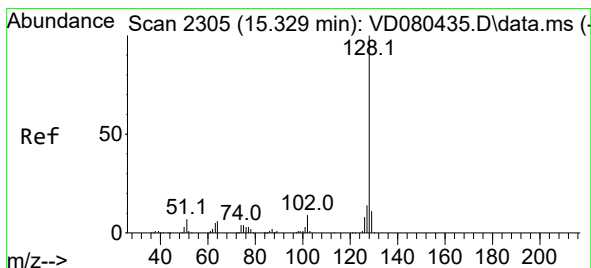
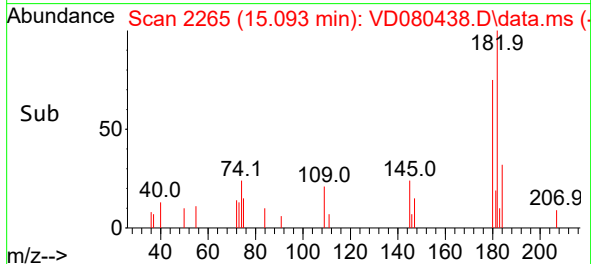
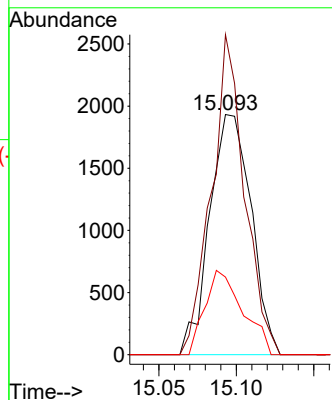
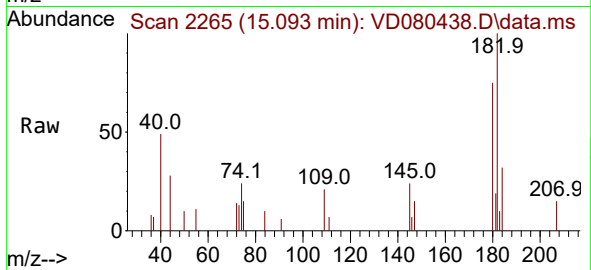




#70
1,2,4-trichlorobenzene
Concen: 0.84 ug/L
RT: 15.093 min Scan# 2265
Delta R.T. 0.000 min
Lab File: VD080438.D
Acq: 13 Jun 2025 14:18

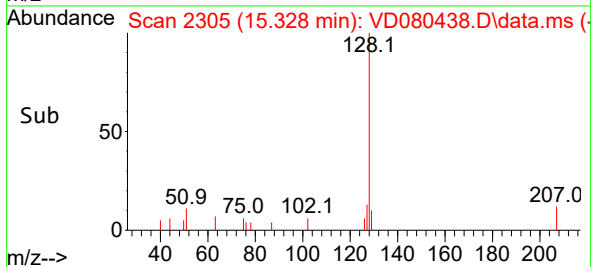
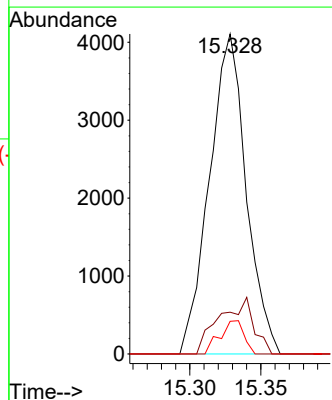
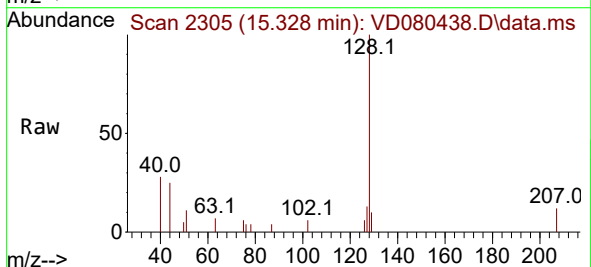
Instrument :
MSVOA_D
ClientSampleId :
VIBLK840

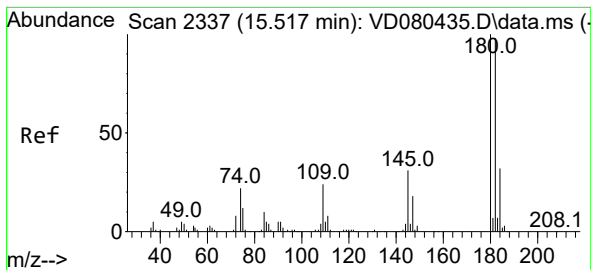
Tgt Ion	Ratio	Lower	Upper
180	100		
182	106.2	75.0	112.6
145	32.0	22.9	34.3



#71
Naphthalene
Concen: 0.97 ug/L
RT: 15.328 min Scan# 2305
Delta R.T. -0.001 min
Lab File: VD080438.D
Acq: 13 Jun 2025 14:18

Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.8	11.3	16.9#
129	0.0	8.8	13.2#





#72

1,2,3-Trichlorobenzene

Concen: 1.00 ug/L

RT: 15.517 min Scan# 21

Delta R.T. -0.000 min

Lab File: VD080438.D

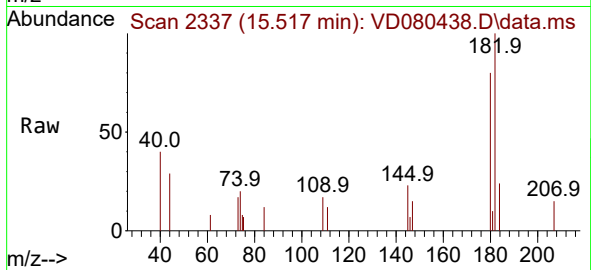
Acq: 13 Jun 2025 14:18

Instrument :

MSVOA_D

ClientSampleId :

VIBLK840



Tgt Ion:	180	Resp:	3940
Ion	Ratio	Lower	Upper
180	100		
182	95.2	77.0	115.6
145	24.1	25.2	37.8#

