

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082025\
 Data File : VY023173.D
 Acq On : 20 Aug 2025 14:11
 Operator : SY/MD
 Sample : Q2897-01
 Misc : 5.17g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-02-08182025RE

Quant Time: Aug 21 01:39:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

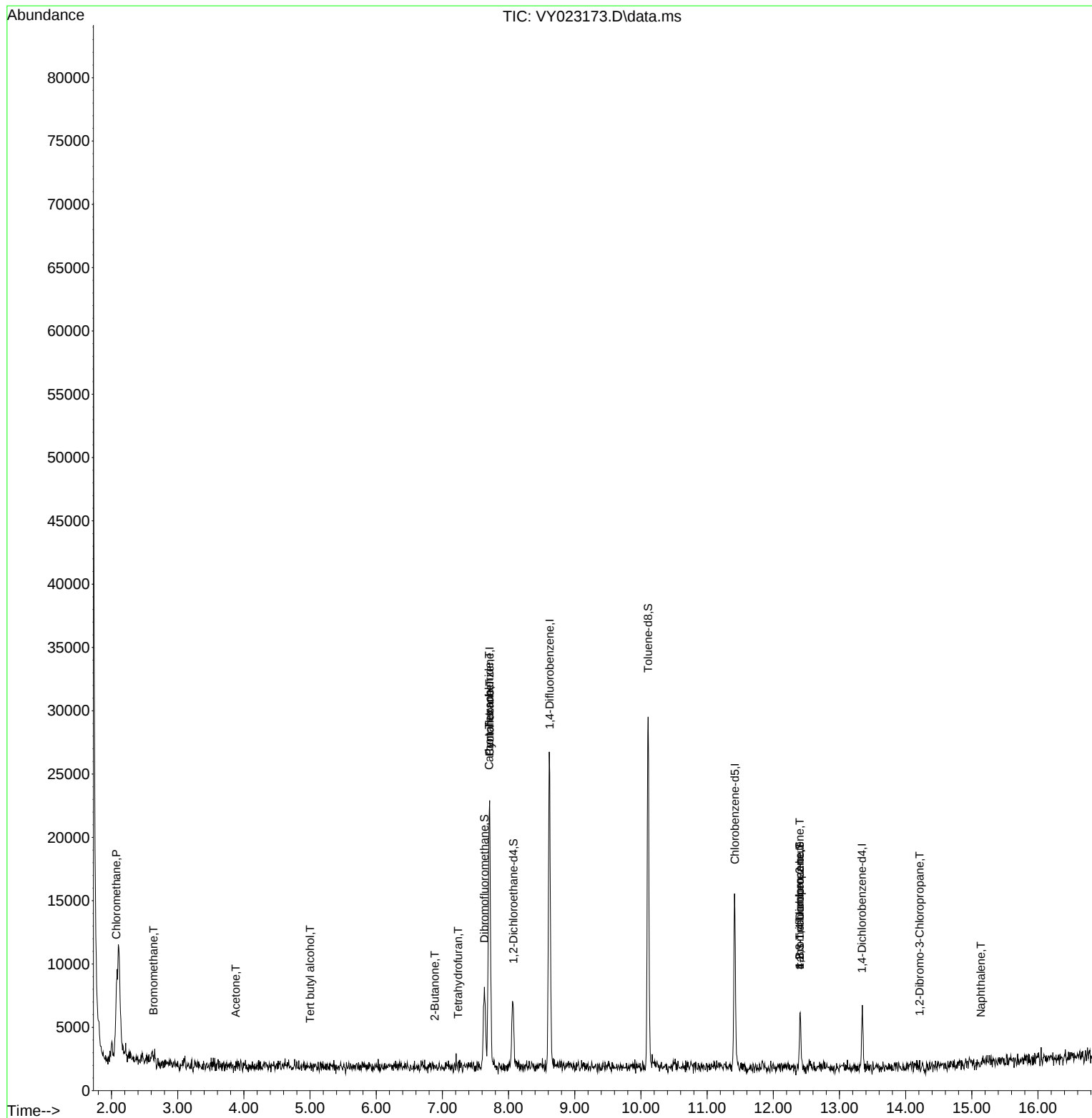
Internal Standards						
1) Pentafluorobenzene	7.713	168	17011	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	21318	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.420	117	7805	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.340	152	1406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	4309	26.578	ug/l	0.02
Spiked Amount	50.000	Range	50 - 163	Recovery	=	53.160%
35) Dibromofluoromethane	7.634	113	4428	34.713	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	69.420%
50) Toluene-d8	10.109	98	19010	38.148	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	76.300%
62) 4-Bromofluorobenzene	12.401	95	1348	8.411	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	16.820%#
Target Compounds						
					Qvalue	
3) Chloromethane	2.074	50	386	1.716	ug/l #	46
5) Bromomethane	2.635	94	460	2.216	ug/l #	37
11) Tert butyl alcohol	5.000	59	22	1.980	ug/l #	71
16) Acetone	3.878	43	166	4.726	ug/l #	41
20) Methylene Chloride	4.640	84	45	Below Cal	#	8
25) 2-Butanone	6.884	43	57	1.193	ug/l #	45
29) Tetrahydrofuran	7.238	42	36	1.216	ug/l #	29
31) Cyclohexane	7.713	56	399	1.321	ug/l #	26
38) Carbon Tetrachloride	7.707	117	1784	8.664	ug/l #	13
76) 1,2,3-Trichloropropane	12.401	75	887	65.368	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	887	158.234	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.212	75	39	14.783	ug/l #	1
95) Naphthalene	15.139	128	59	1.429	ug/l #	1

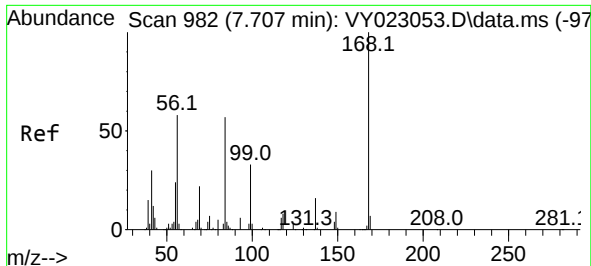
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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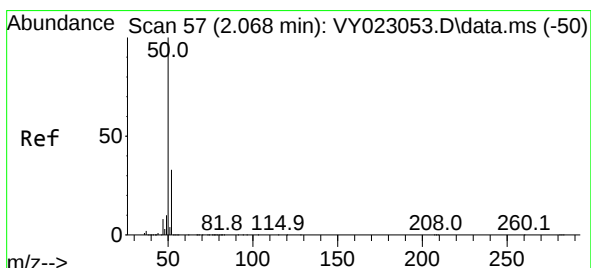
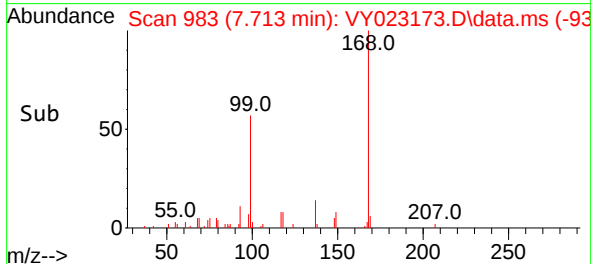
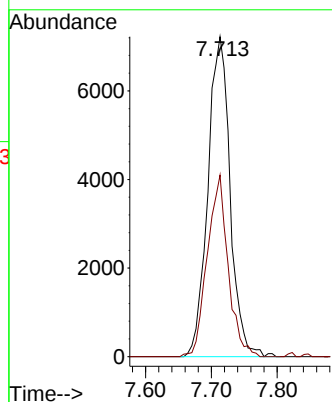
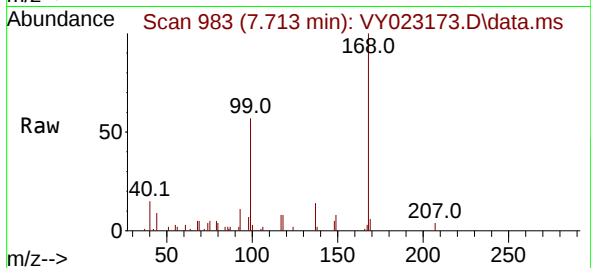




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

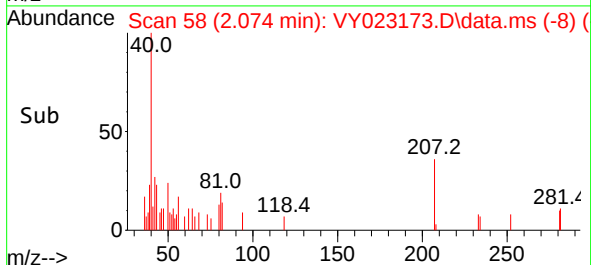
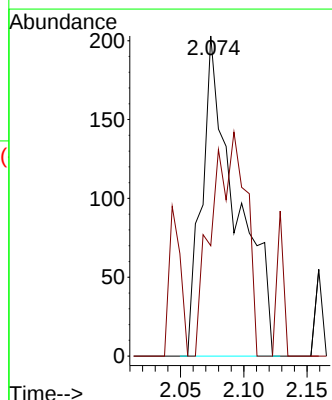
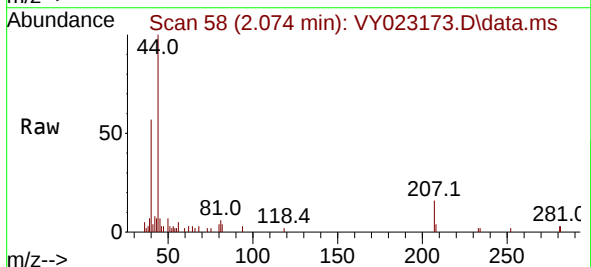
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-08182025RE

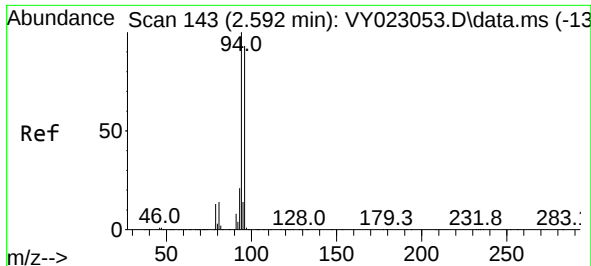
Tgt Ion:168 Resp: 17011
Ion Ratio Lower Upper
168 100
99 56.8 42.8 64.2



#3
Chloromethane
Concen: 1.716 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

Tgt Ion: 50 Resp: 386
Ion Ratio Lower Upper
50 100
52 2.5 26.7 40.1#

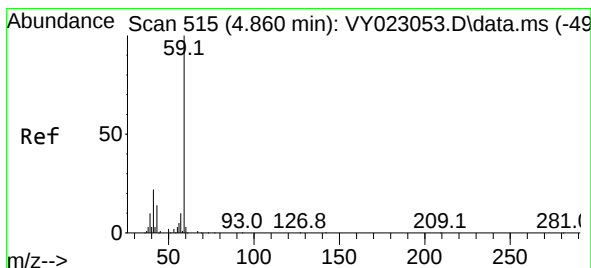
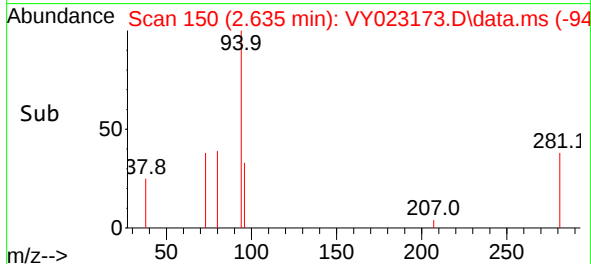
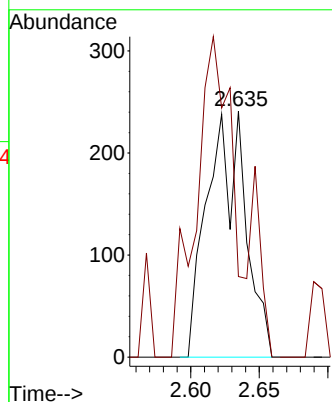
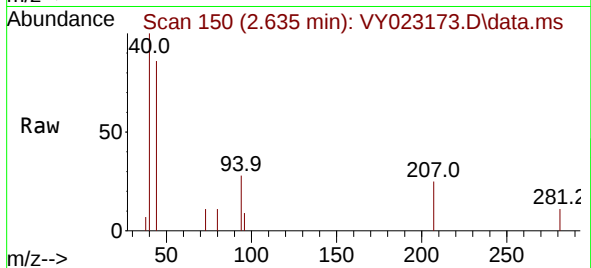




#5
Bromomethane
Concen: 2.216 ug/l
RT: 2.635 min Scan# 11
Delta R.T. 0.043 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

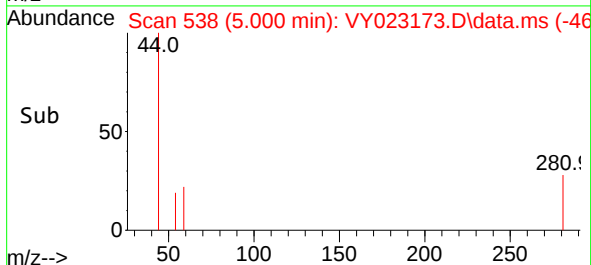
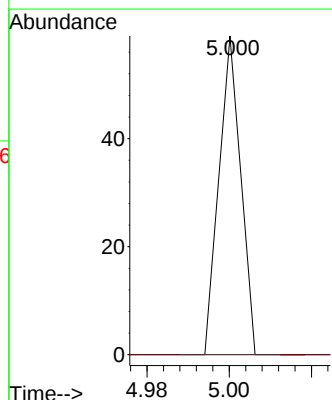
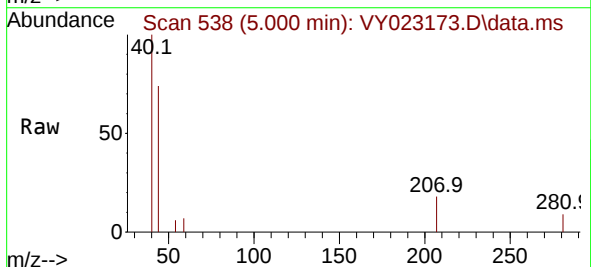
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-08182025RE

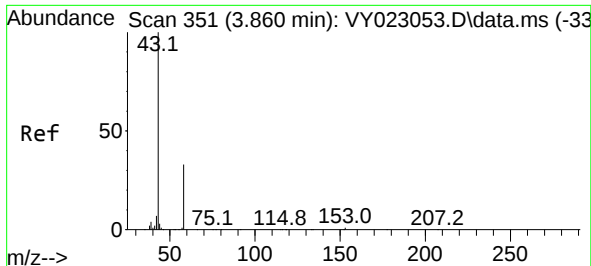
Tgt Ion: 94 Resp: 460
Ion Ratio Lower Upper
94 100
96 32.8 74.6 112.0#



#11
Tert butyl alcohol
Concen: 1.980 ug/l
RT: 5.000 min Scan# 538
Delta R.T. 0.140 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

Tgt Ion: 59 Resp: 22
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#





#16

Acetone

Concen: 4.726 ug/l

RT: 3.878 min Scan# 3

Delta R.T. 0.018 min

Lab File: VY023173.D

Acq: 20 Aug 2025 14:11

Instrument :

MSVOA_Y

ClientSampleId :

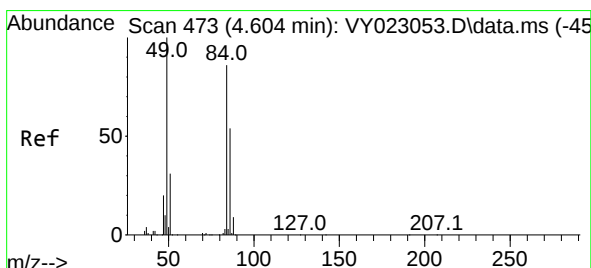
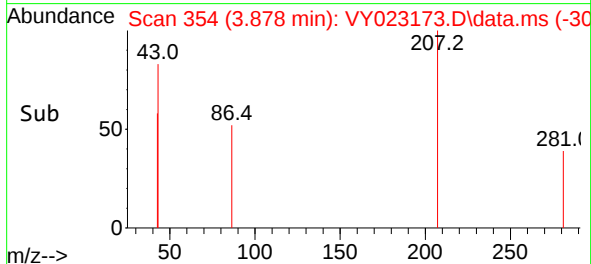
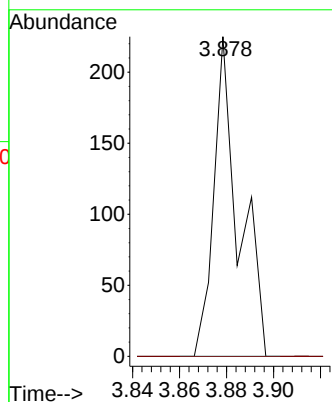
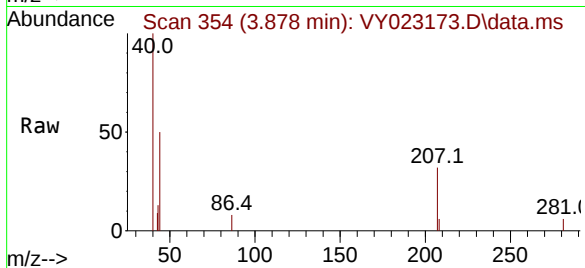
HD-02-08182025RE

Tgt Ion: 43 Resp: 166

Ion Ratio Lower Upper

43 100

58 0.0 27.1 40.7#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.640 min Scan# 479

Delta R.T. 0.036 min

Lab File: VY023173.D

Acq: 20 Aug 2025 14:11

Tgt Ion: 84 Resp: 45

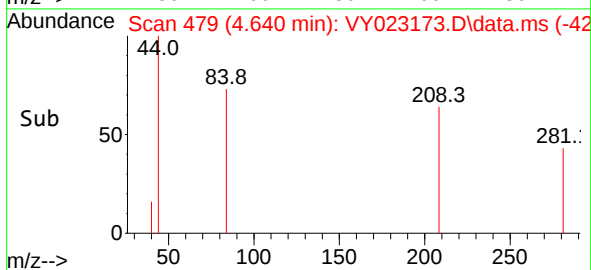
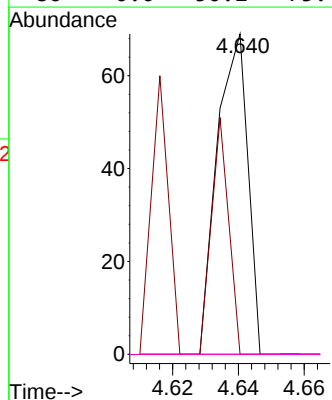
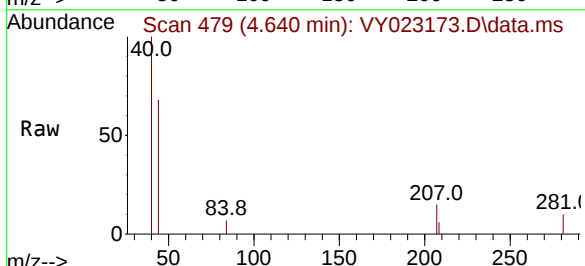
Ion Ratio Lower Upper

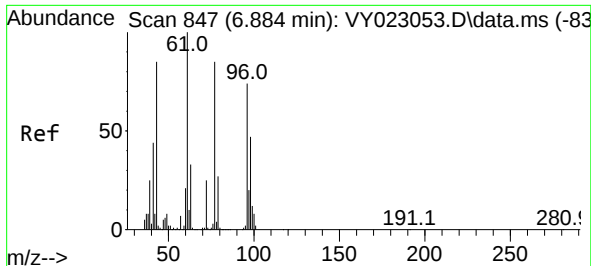
84 100

49 0.0 93.0 139.6#

51 0.0 29.0 43.4#

86 0.0 50.2 75.4#

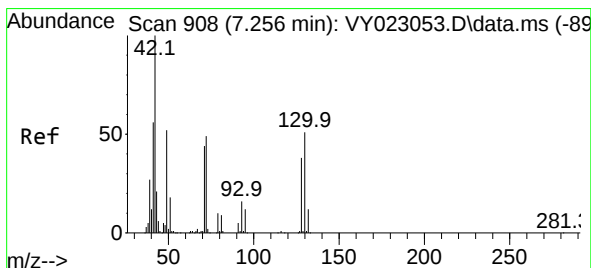
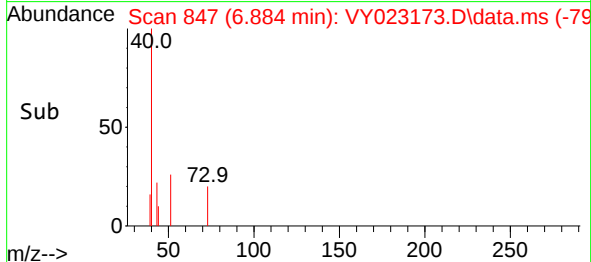
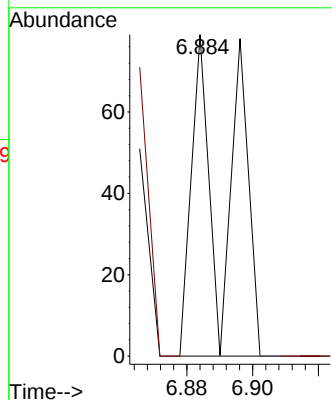
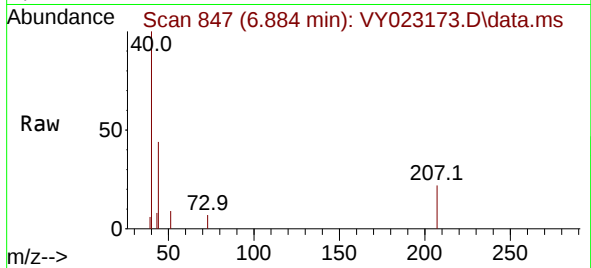




#25
2-Butanone
Concen: 1.193 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

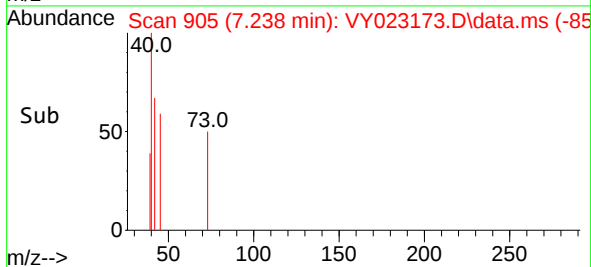
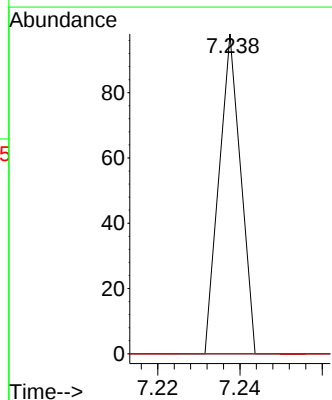
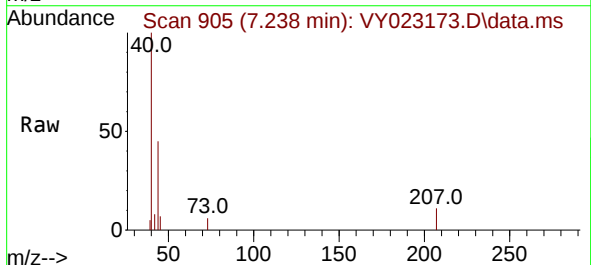
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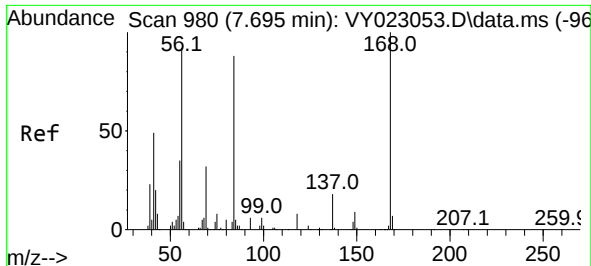
Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
72 0.0 23.5 35.3#



#29
Tetrahydrofuran
Concen: 1.216 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.018 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

Tgt Ion: 42 Resp: 36
Ion Ratio Lower Upper
42 100
72 0.0 39.4 59.2#
71 0.0 36.5 54.7#

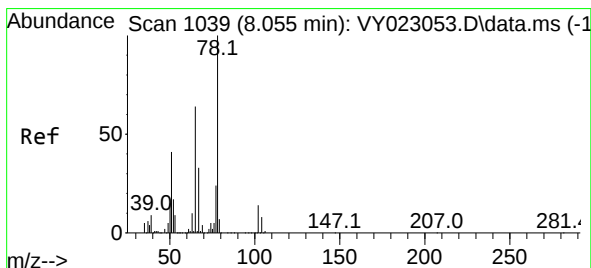
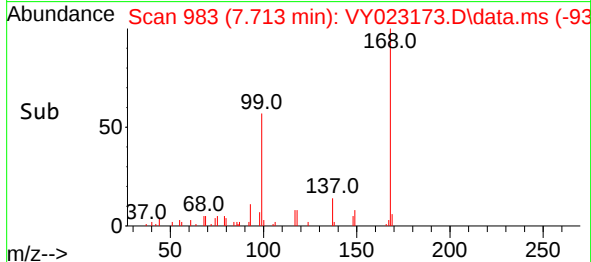
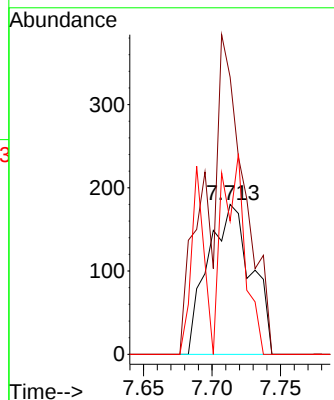
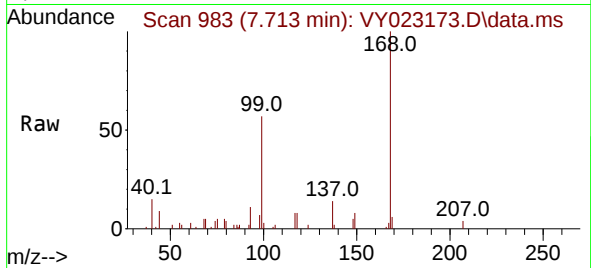




#31
Cyclohexane
Concen: 1.321 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

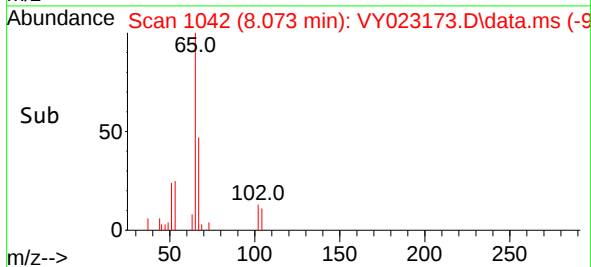
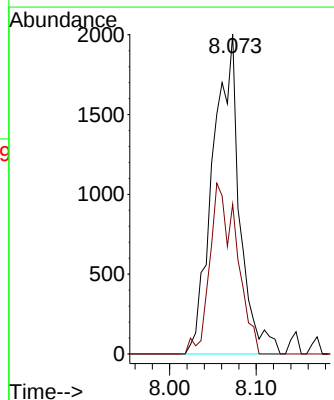
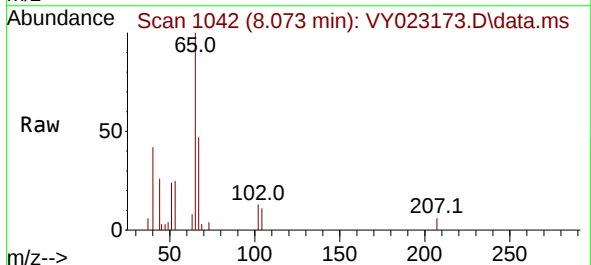
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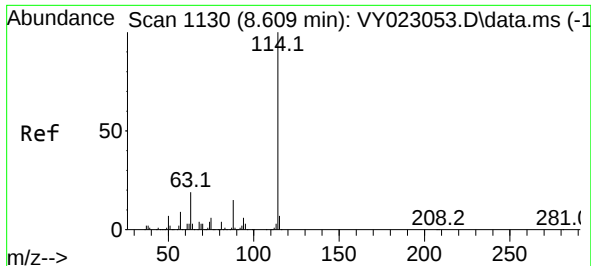
Tgt Ion: 56 Resp: 399
Ion Ratio Lower Upper
56 100
69 185.0 28.2 42.2#
84 88.9 76.6 114.8



#33
1,2-Dichloroethane-d4
Concen: 26.578 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.018 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

Tgt Ion: 65 Resp: 4309
Ion Ratio Lower Upper
65 100
67 53.8 0.0 106.8

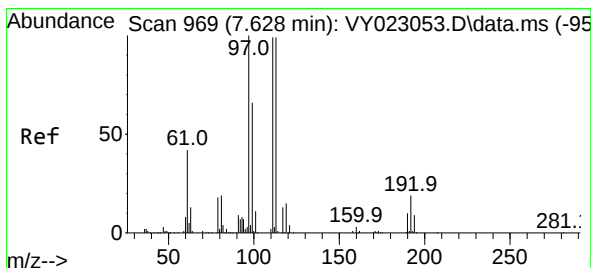
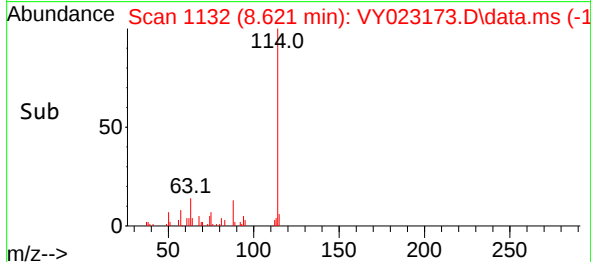
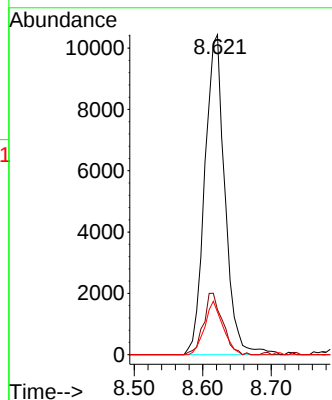
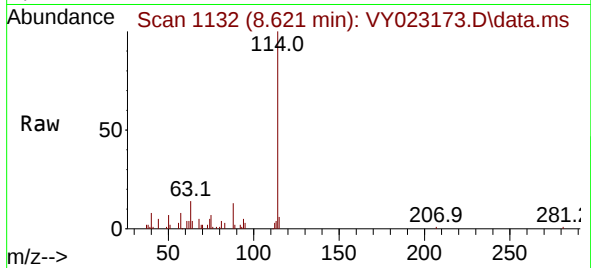




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 1132
Delta R.T. 0.012 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

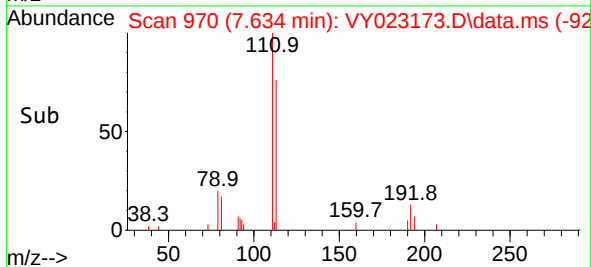
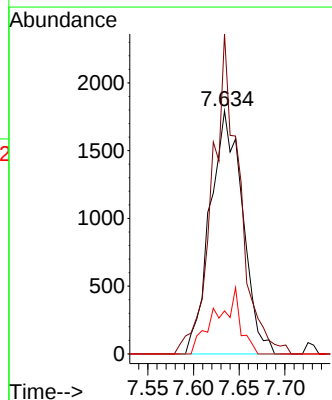
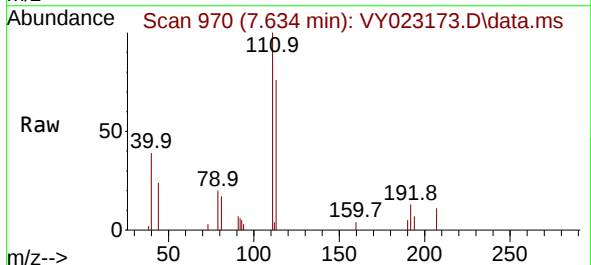
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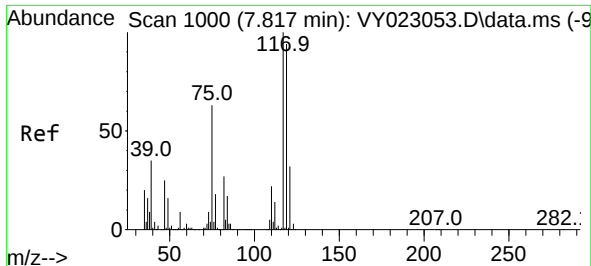
Tgt Ion:114	Resp:	21318
Ion Ratio	Lower	Upper
114	100	
63	14.1	0.0 38.4
88	13.3	0.0 30.0



#35
Dibromofluoromethane
Concen: 34.713 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

Tgt Ion:113	Resp:	4428
Ion Ratio	Lower	Upper
113	100	
111	110.3	81.1 121.7
192	20.6	16.2 24.4

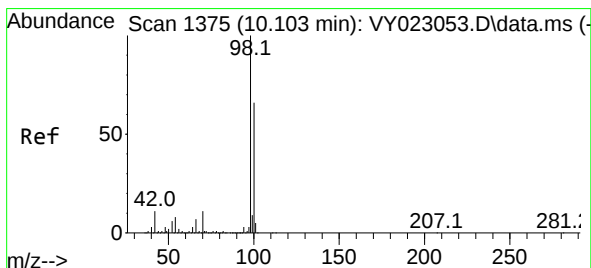
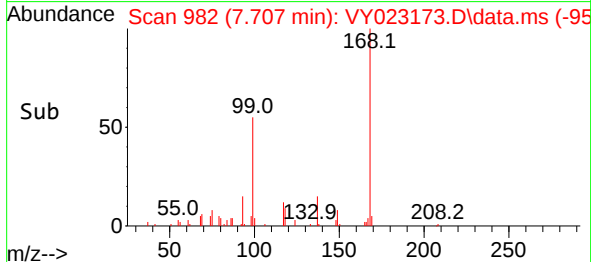
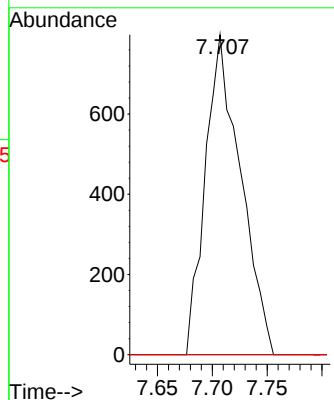
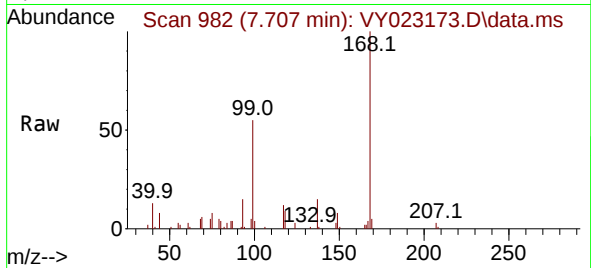




#38
Carbon Tetrachloride
Concen: 8.664 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

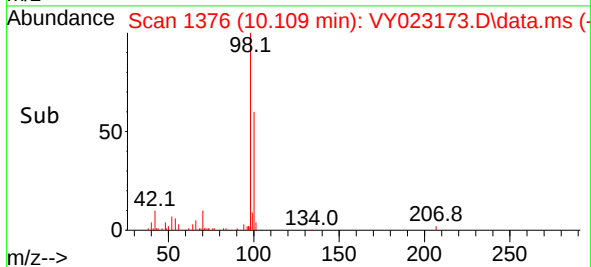
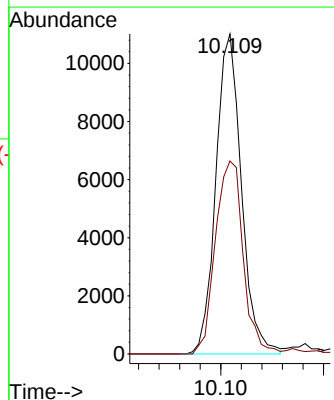
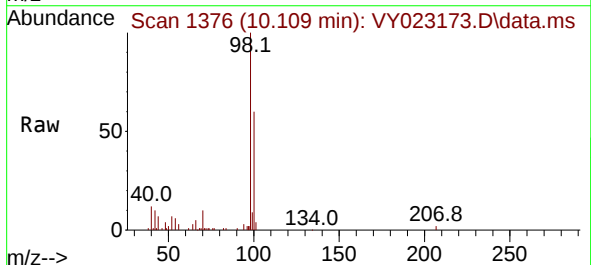
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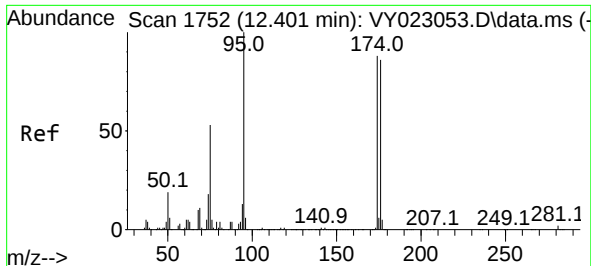
Tgt Ion:117 Resp: 1784
Ion Ratio Lower Upper
117 100
119 0.0 75.6 113.4#
121 0.0 25.8 38.8#



#50
Toluene-d8
Concen: 38.148 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

Tgt Ion: 98 Resp: 19010
Ion Ratio Lower Upper
98 100
100 65.4 52.3 78.5

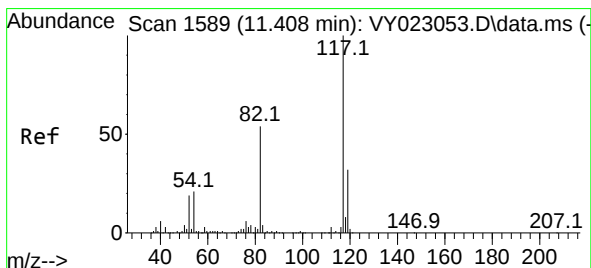
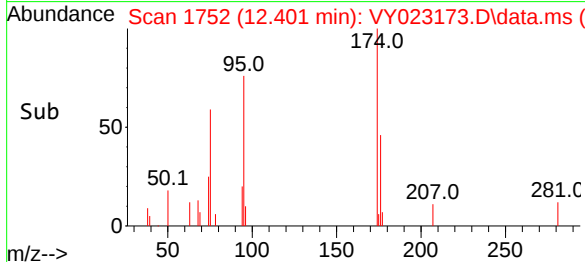
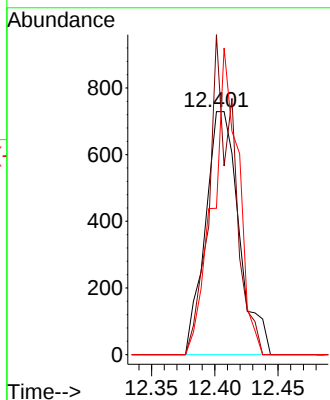
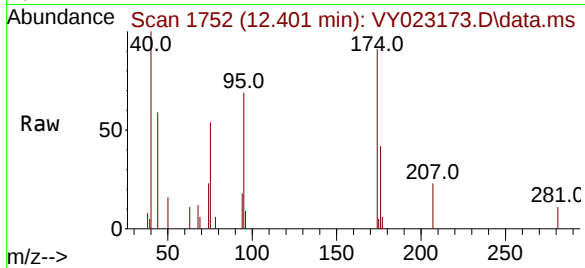




#62
4-Bromofluorobenzene
Concen: 8.411 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

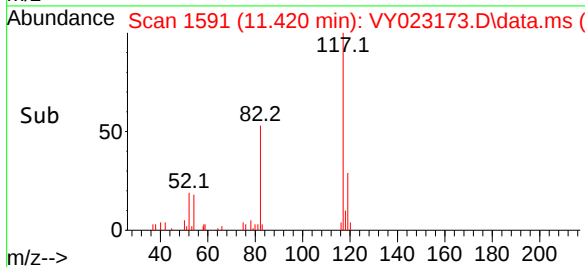
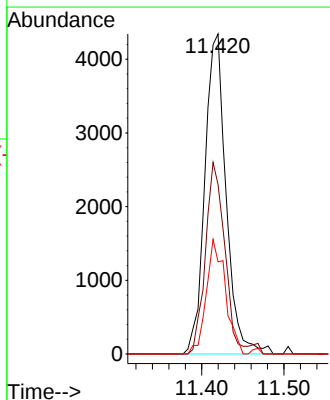
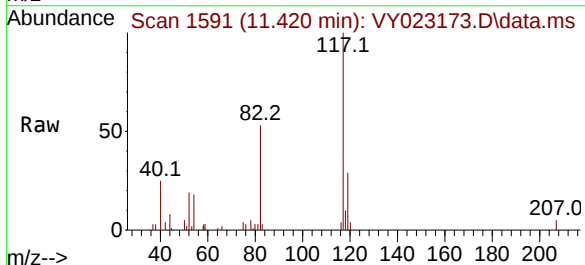
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-08182025RE

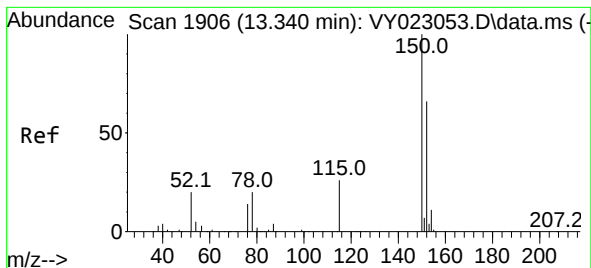
Tgt Ion:	95	Resp:	1348
Ion Ratio	Lower	Upper	
95	100		
174	96.0	0.0	171.6
176	96.2	0.0	167.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.012 min
Lab File: VY023173.D
Acq: 20 Aug 2025 14:11

Tgt Ion:	117	Resp:	7805
Ion Ratio	Lower	Upper	
117	100		
82	53.0	43.4	65.0
119	28.8	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. -0.000 min

Lab File: VY023173.D

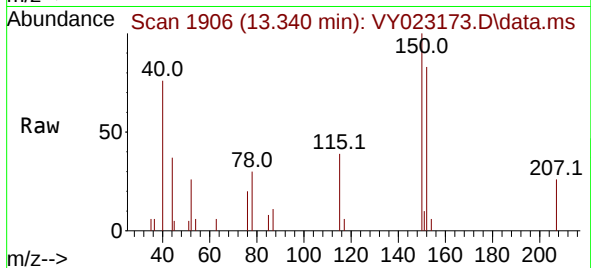
Acq: 20 Aug 2025 14:11

Instrument :

MSVOA_Y

ClientSampleId :

HD-02-08182025RE



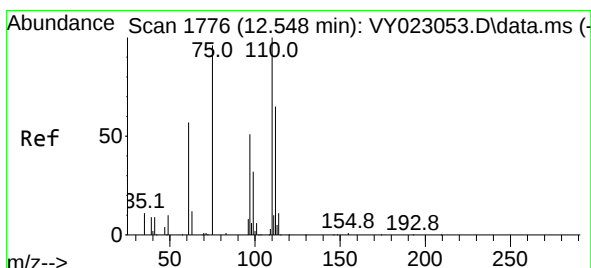
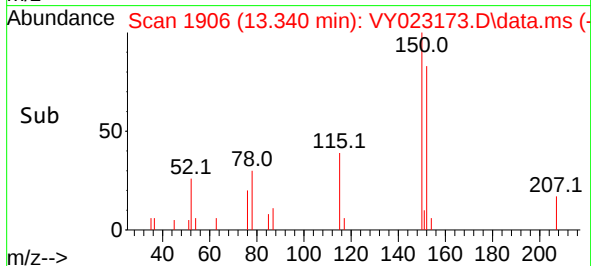
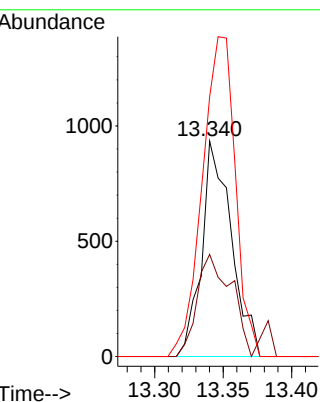
Tgt Ion:152 Resp: 1406

Ion Ratio Lower Upper

152 100

115 54.8 28.2 84.6

150 165.6 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 65.368 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.146 min

Lab File: VY023173.D

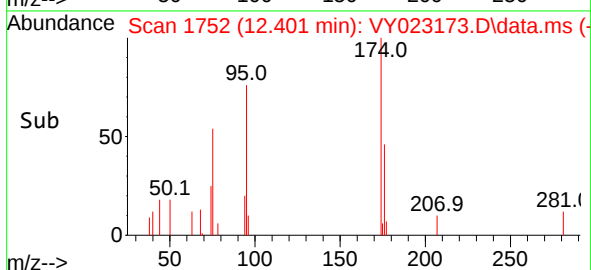
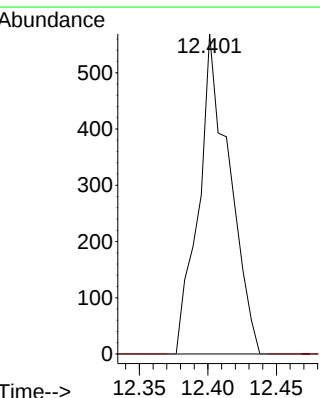
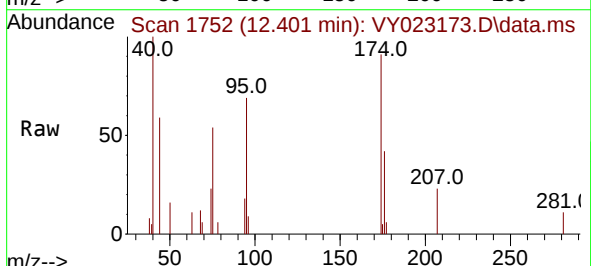
Acq: 20 Aug 2025 14:11

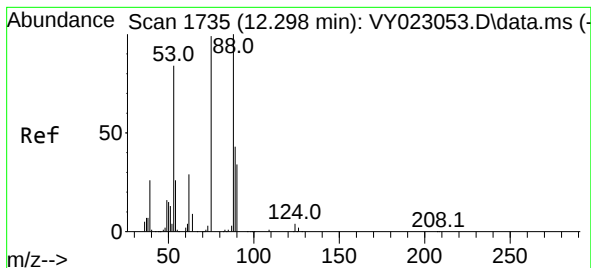
Tgt Ion: 75 Resp: 887

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

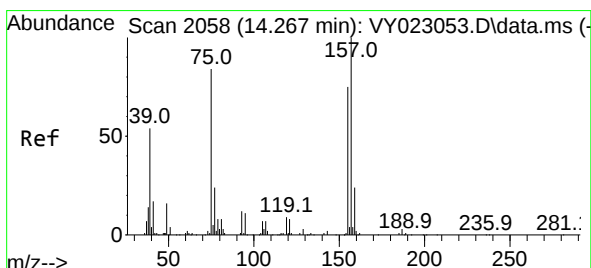
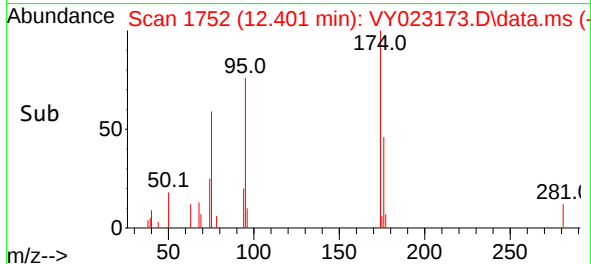
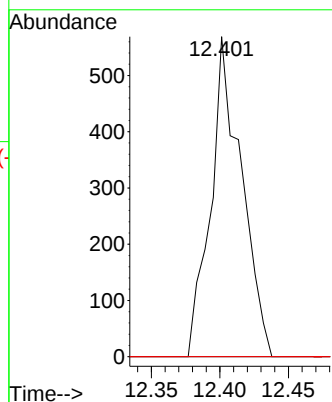
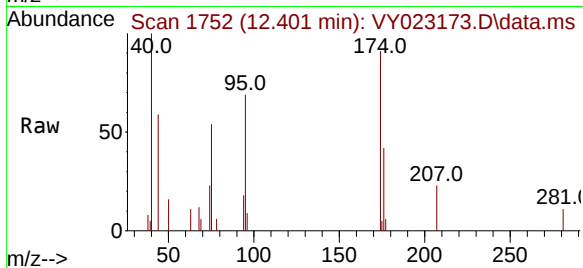




#81
 trans-1,4-Dichloro-2-butene
 Concen: 158.234 ug/l
 RT: 12.401 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY023173.D
 Acq: 20 Aug 2025 14:11

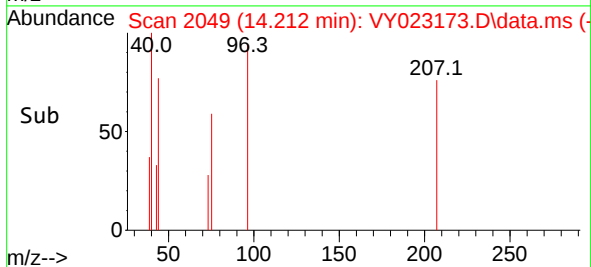
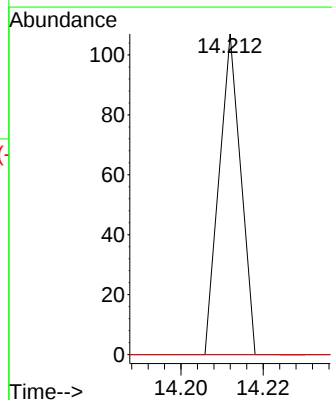
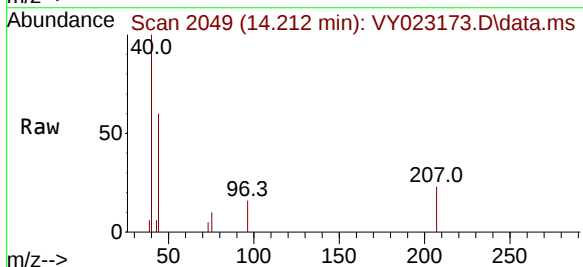
Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-02-08182025RE

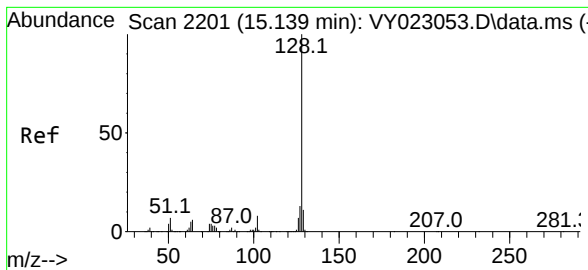
Tgt Ion: 75 Resp: 887
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.8 106.2#
 89 0.0 38.1 57.1#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 14.783 ug/l
 RT: 14.212 min Scan# 2049
 Delta R.T. -0.055 min
 Lab File: VY023173.D
 Acq: 20 Aug 2025 14:11

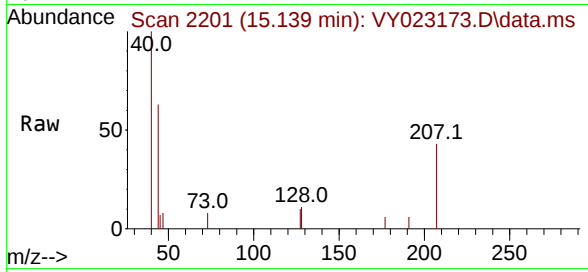
Tgt Ion: 75 Resp: 39
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.9 131.6#
 157 0.0 57.2 171.6#





#95
 Naphthalene
 Concen: 1.429 ug/l
 RT: 15.139 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VY023173.D
 Acq: 20 Aug 2025 14:11

Instrument : MSVOA_Y
 ClientSampleId : HD-02-08182025RE



Tgt Ion:	128	Resp:	59
Ion	Ratio	Lower	Upper
128	100		
127	94.9	10.4	15.6#
129	0.0	9.0	13.4#

