

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100125\
 Data File : VX047931.D
 Acq On : 01 Oct 2025 12:01
 Operator : JC/MD
 Sample : Q3193-05DL 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE137-20250922DL

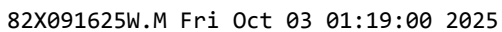
Quant Time: Oct 03 01:18:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

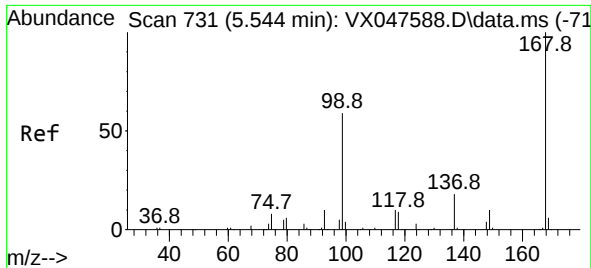
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	121237	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	245128	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	249435	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	119740	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	96452	49.981	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	99.960%		
35) Dibromofluoromethane	5.373	113	81070	49.314	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.620%		
50) Toluene-d8	8.635	98	278526	48.964	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	97.920%		
62) 4-Bromofluorobenzene	11.067	95	115493	53.497	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	107.000%		
Target Compounds					Qvalue	
5) Bromomethane	1.636	94	262	0.256	ug/l	81
9) 1,1,2-Trichlorotrifluo...	2.337	101	1977	1.410	ug/l	93
10) Methyl Iodide	2.465	142	1007	0.460	ug/l #	71
12) 1,1-Dichloroethene	2.325	96	511	0.355	ug/l #	64
15) Acrylonitrile	3.075	53	191	0.240	ug/l #	65
16) Acetone	2.361	43	294	0.350	ug/l #	45
17) Carbon Disulfide	2.520	76	997	0.253	ug/l #	76
18) Methyl Acetate	2.721	43	487	0.261	ug/l #	54
20) Methylene Chloride	2.788	84	1027	0.578	ug/l #	80
29) Tetrahydrofuran	5.001	42	466	0.740	ug/l #	40
36) 1,1-Dichloropropene	5.538	75	10430	4.342	ug/l #	52
38) Carbon Tetrachloride	5.544	117	12615	4.833	ug/l #	18
41) Methacrylonitrile	5.026	41	464	0.349	ug/l #	34
44) Trichloroethene	7.111	130	109995	62.358	ug/l	98
49) 1,4-Dioxane	7.671	88	19	0.895	ug/l #	21
60) Dibromochloromethane	9.257	129	861	0.431	ug/l #	11
64) Tetrachloroethene	9.269	164	883	0.543	ug/l #	64
76) 1,2,3-Trichloropropane	11.061	75	58866	24.281	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.061	75	58866	61.920	ug/l #	8
86) p-Isopropyltoluene	11.994	119	1548	0.201	ug/l #	61
89) n-Butylbenzene	12.317	91	2798	0.393	ug/l	92
93) 1,2,4-Trichlorobenzene	13.573	180	1234	0.479	ug/l	95
94) Hexachlorobutadiene	13.707	225	1141	1.303	ug/l	93
95) Naphthalene	13.762	128	2669	0.340	ug/l #	91
96) 1,2,3-Trichlorobenzene	13.945	180	1194	0.498	ug/l	95

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

Quant Time: Oct 03 01:18:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

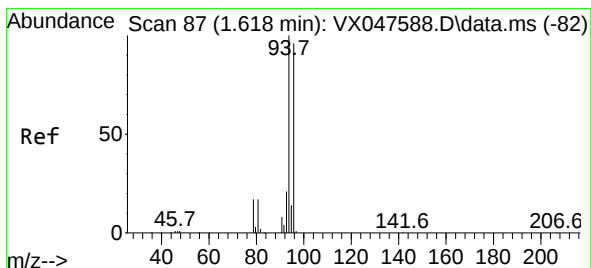
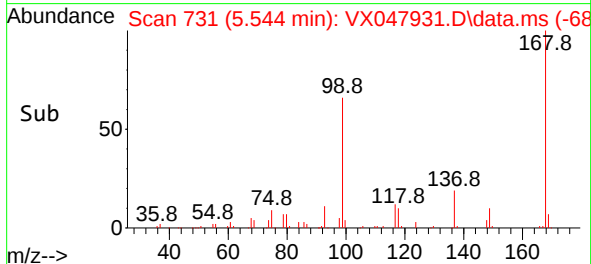
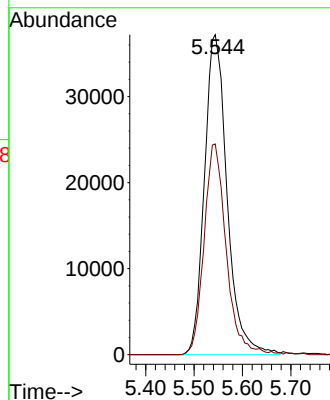
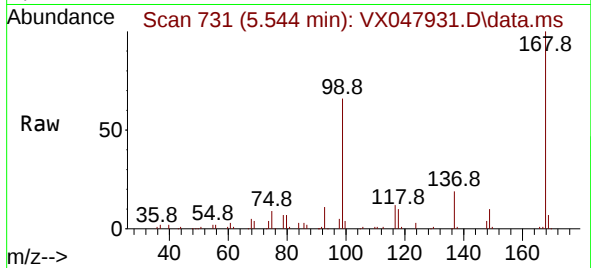




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

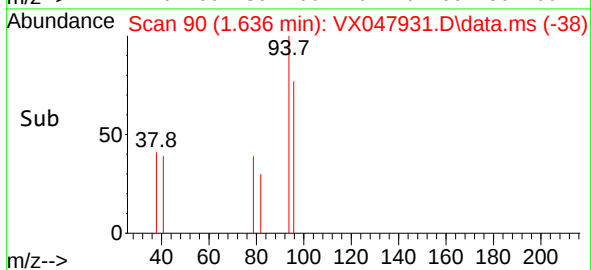
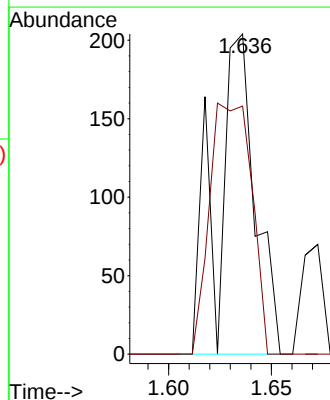
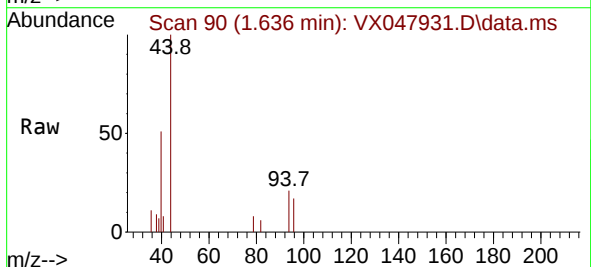
Instrument :
MSVOA_X
ClientSampleId :
RE137-20250922DL

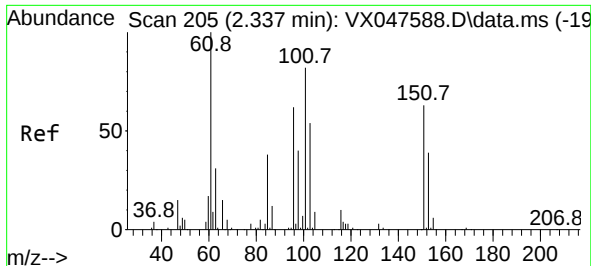
Tgt Ion:168 Resp: 121237
Ion Ratio Lower Upper
168 100
99 65.9 48.8 73.2



#5
Bromomethane
Concen: 0.256 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.018 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

Tgt Ion: 94 Resp: 262
Ion Ratio Lower Upper
94 100
96 77.5 76.6 115.0

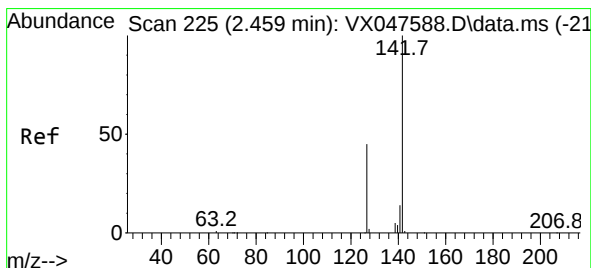
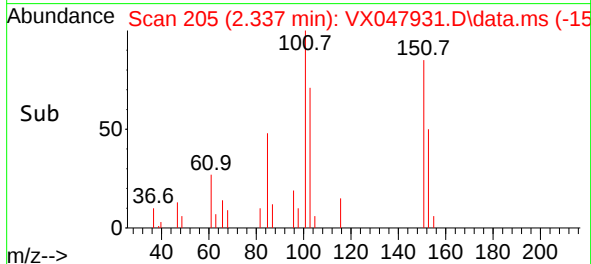
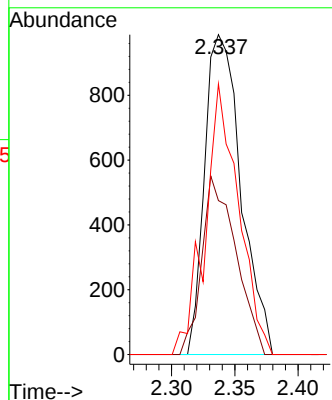
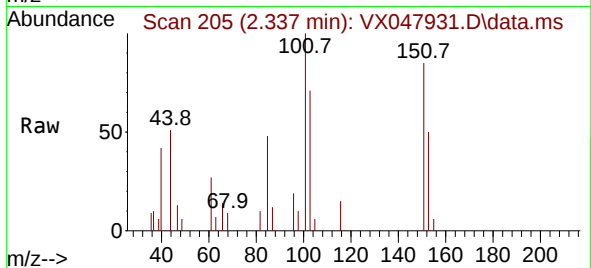




#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.410 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

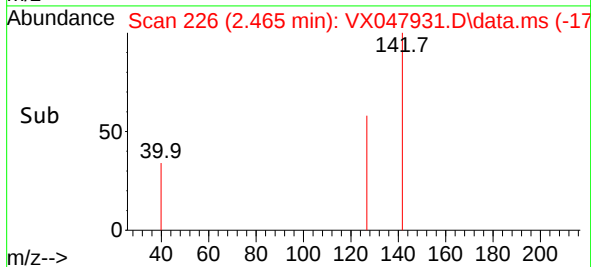
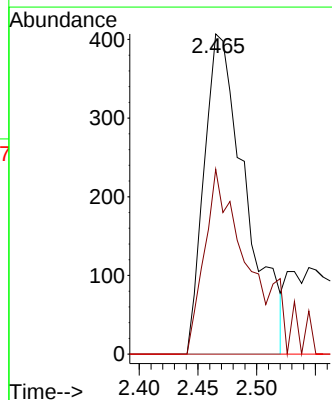
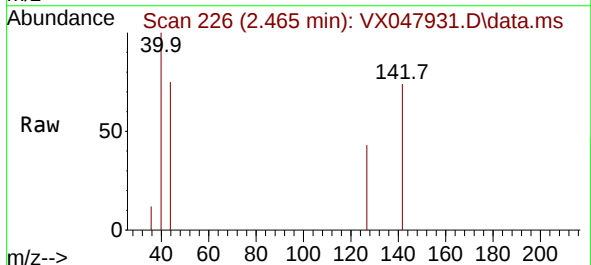
Instrument :
MSVOA_X
ClientSampleId :
RE137-20250922DL

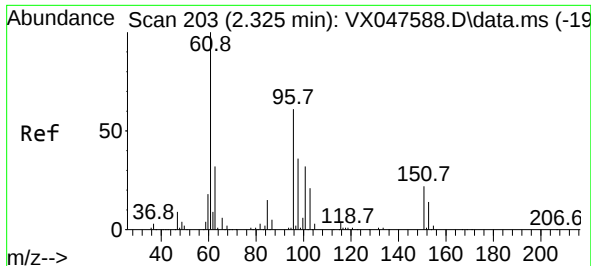
Tgt Ion:	101	Resp:	1977
Ion	Ratio	Lower	Upper
101	100		
85	52.1	35.5	53.3
151	77.6	59.4	89.0



#10
Methyl Iodide
Concen: 0.460 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

Tgt Ion:	142	Resp:	1007
Ion	Ratio	Lower	Upper
142	100		
127	64.3	37.2	55.8#
141	0.0	11.4	17.0#





#12

1,1-Dichloroethene

Concen: 0.355 ug/l

RT: 2.325 min Scan# 203

Delta R.T. 0.000 min

Lab File: VX047931.D

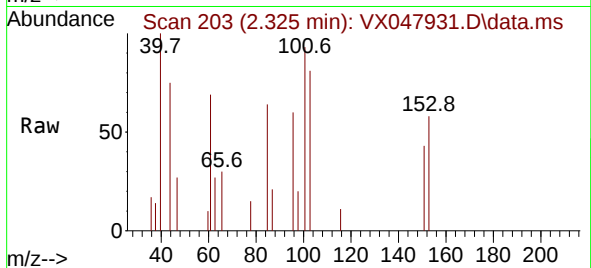
Acq: 01 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

RE137-20250922DL



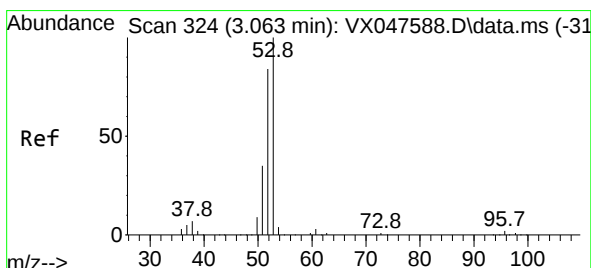
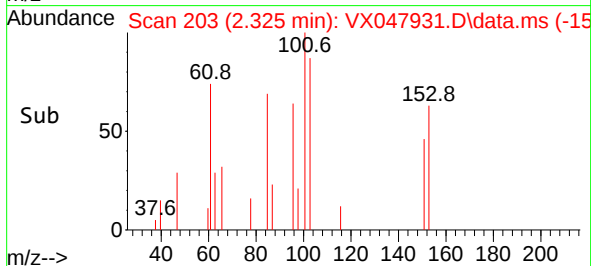
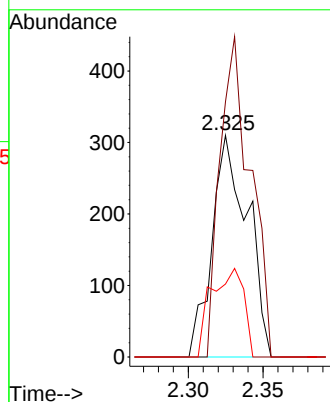
Tgt Ion: 96 Resp: 511

Ion Ratio Lower Upper

96 100

61 115.2 131.0 196.6#

98 32.9 47.7 71.5#



#15

Acrylonitrile

Concen: 0.240 ug/l

RT: 3.075 min Scan# 326

Delta R.T. 0.012 min

Lab File: VX047931.D

Acq: 01 Oct 2025 12:01

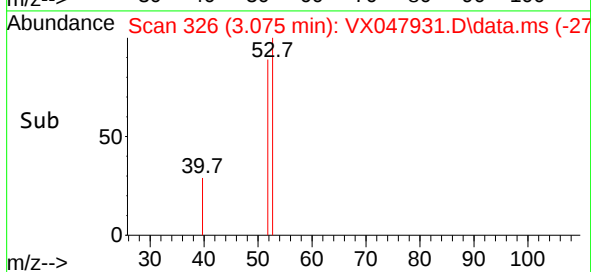
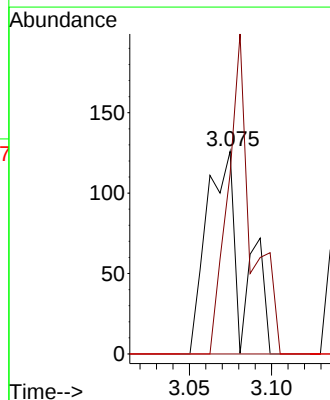
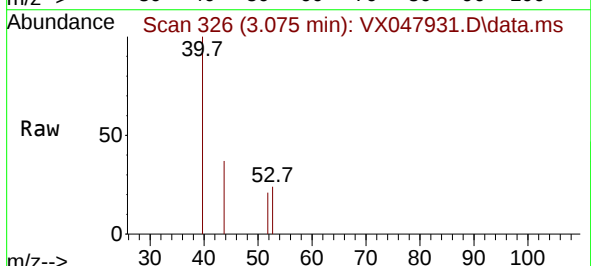
Tgt Ion: 53 Resp: 191

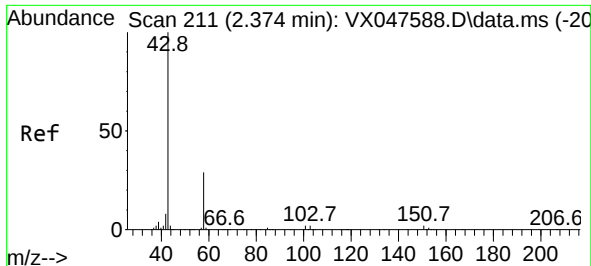
Ion Ratio Lower Upper

53 100

52 104.2 66.4 99.6#

51 0.0 29.5 44.3#

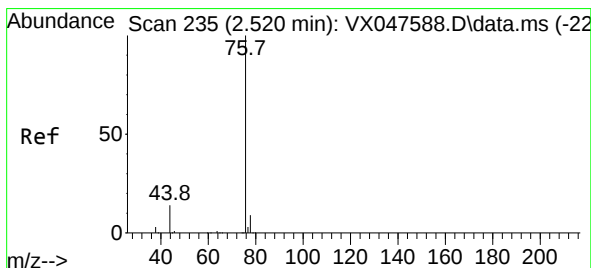
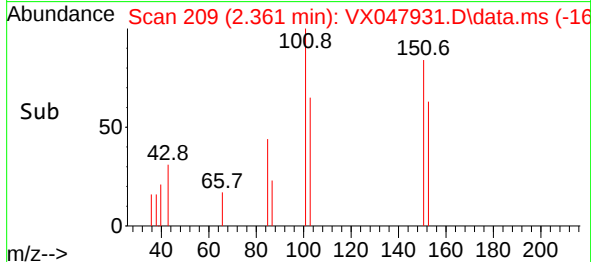
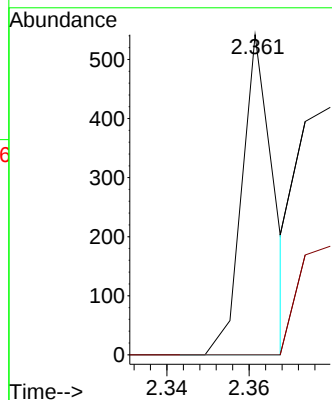
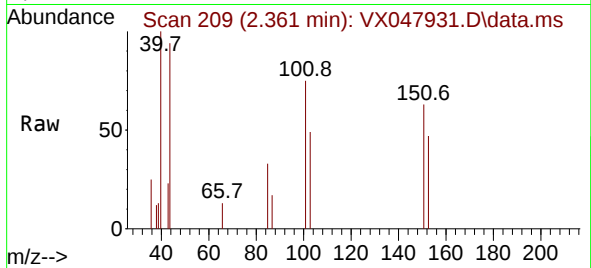




#16
Acetone
Concen: 0.350 ug/l
RT: 2.361 min Scan# 209
Delta R.T. -0.012 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

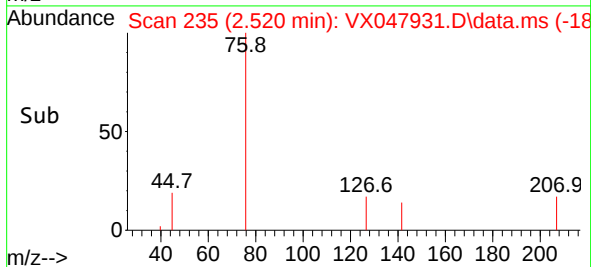
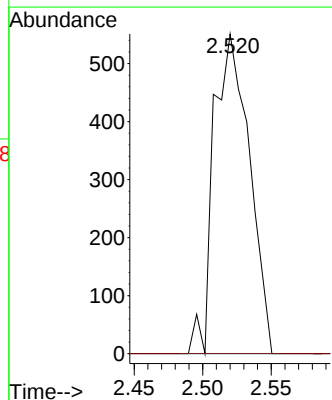
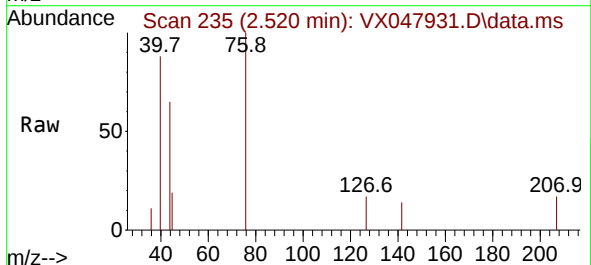
Instrument :
MSVOA_X
ClientSampleId :
RE137-20250922DL

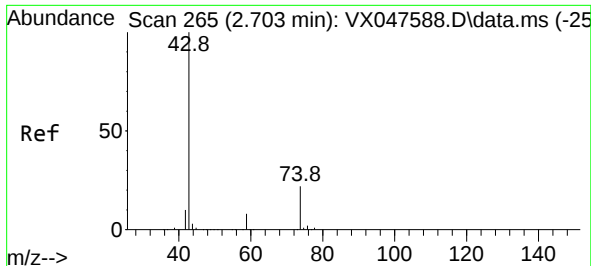
Tgt Ion: 43 Resp: 294
Ion Ratio Lower Upper
43 100
58 0.0 23.4 35.0#



#17
Carbon Disulfide
Concen: 0.253 ug/l
RT: 2.520 min Scan# 235
Delta R.T. 0.000 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

Tgt Ion: 76 Resp: 997
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#





#18

Methyl Acetate

Concen: 0.261 ug/l

RT: 2.721 min Scan# 268

Delta R.T. 0.018 min

Lab File: VX047931.D

Acq: 01 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

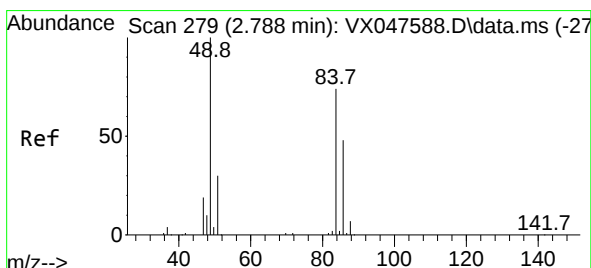
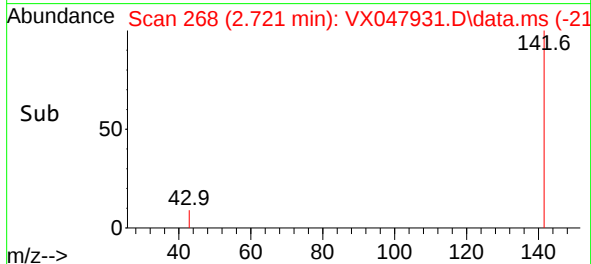
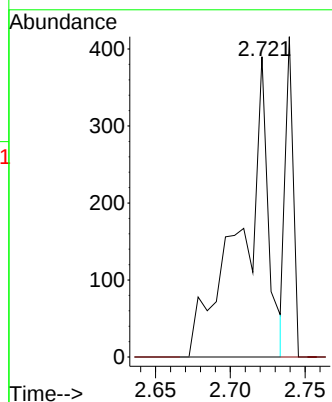
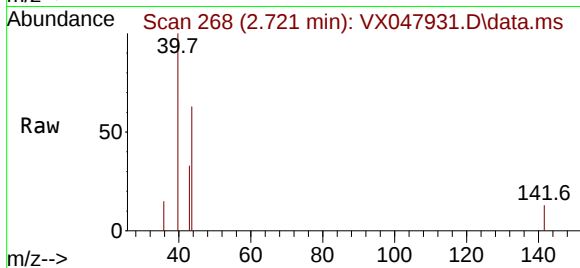
RE137-20250922DL

Tgt Ion: 43 Resp: 487

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.2#



#20

Methylene Chloride

Concen: 0.578 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX047931.D

Acq: 01 Oct 2025 12:01

Tgt Ion: 84 Resp: 1027

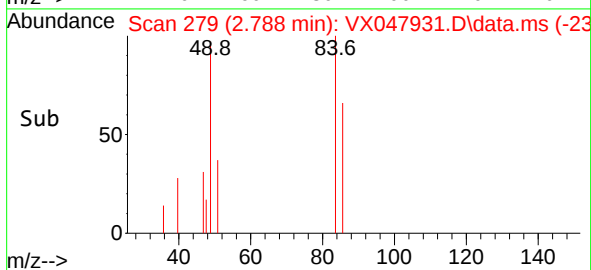
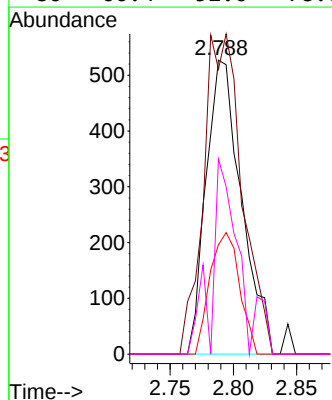
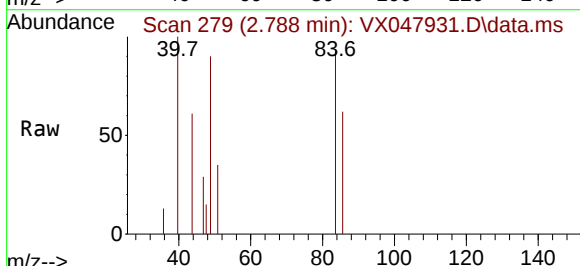
Ion Ratio Lower Upper

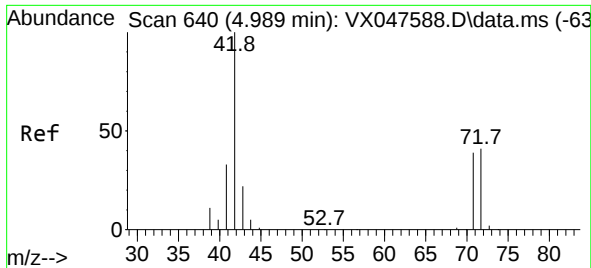
84 100

49 97.0 108.6 162.8#

51 37.2 32.6 48.8

86 66.4 52.0 78.0





#29

Tetrahydrofuran

Concen: 0.740 ug/l

RT: 5.001 min Scan# 64

Delta R.T. 0.012 min

Lab File: VX047931.D

Acq: 01 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

RE137-20250922DL

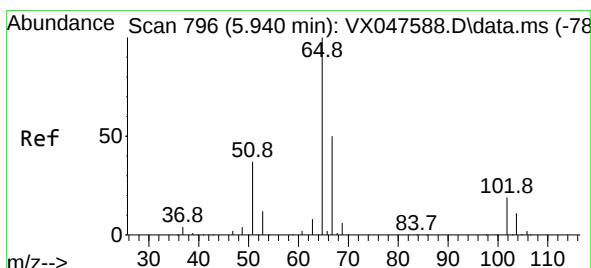
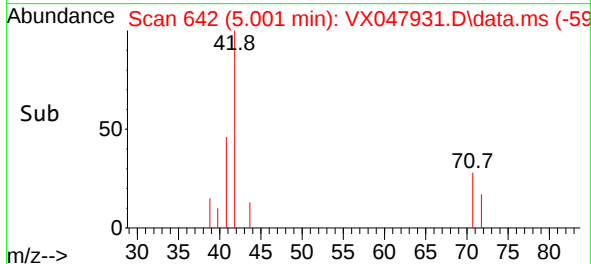
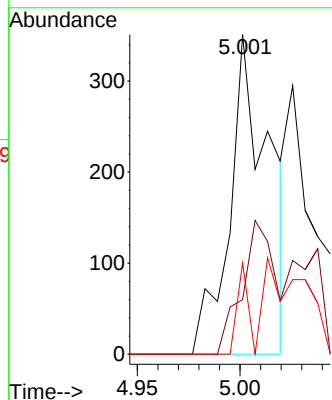
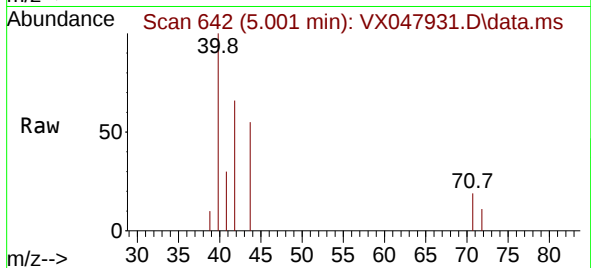
Tgt Ion: 42 Resp: 466

Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

71 7.9 31.9 47.9#



#33

1,2-Dichloroethane-d4

Concen: 49.981 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.006 min

Lab File: VX047931.D

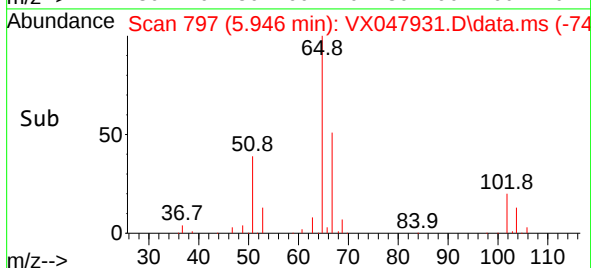
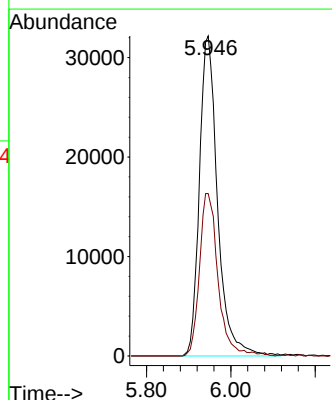
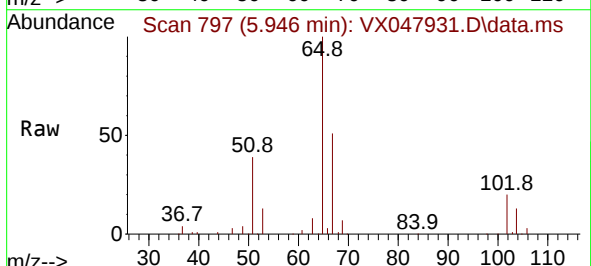
Acq: 01 Oct 2025 12:01

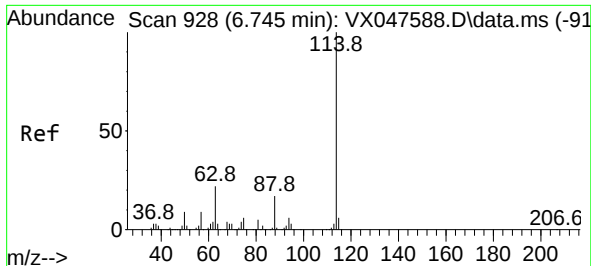
Tgt Ion: 65 Resp: 96452

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.0

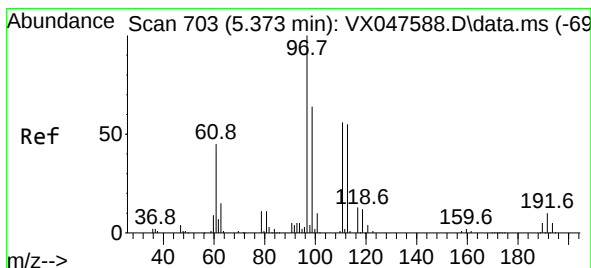
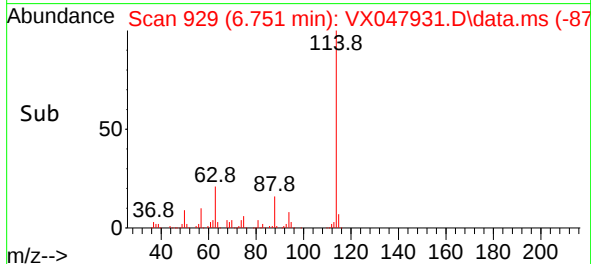
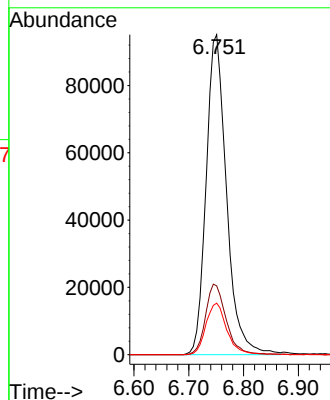
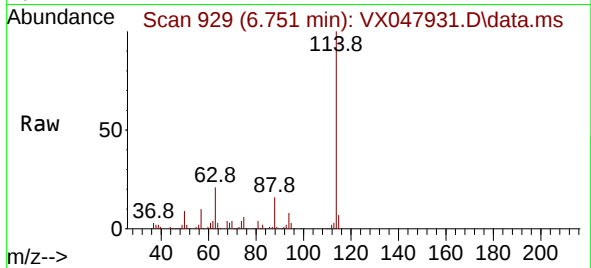




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

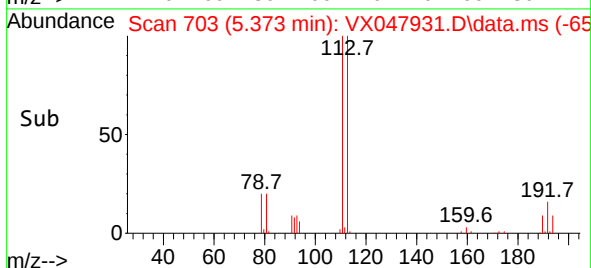
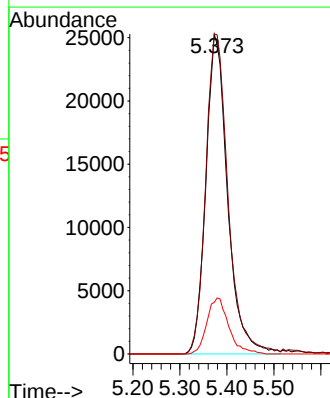
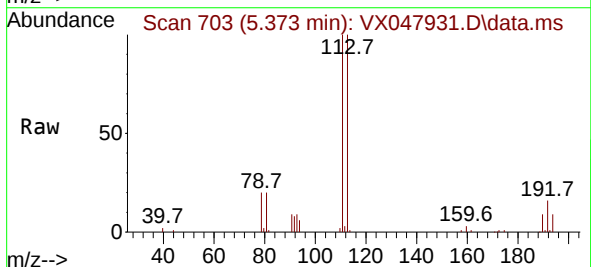
Instrument :
MSVOA_X
ClientSampleId :
RE137-20250922DL

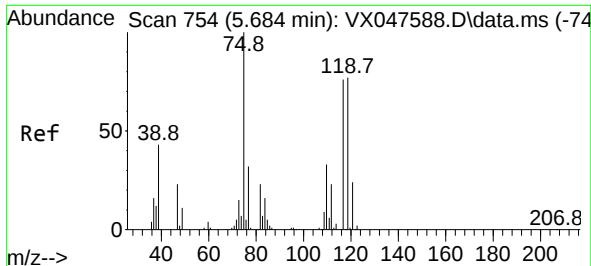
Tgt Ion:114 Resp: 245128
Ion Ratio Lower Upper
114 100
63 21.5 0.0 44.0
88 16.1 0.0 34.2



#35
Dibromofluoromethane
Concen: 49.314 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

Tgt Ion:113 Resp: 81070
Ion Ratio Lower Upper
113 100
111 102.9 80.9 121.3
192 17.6 14.2 21.4

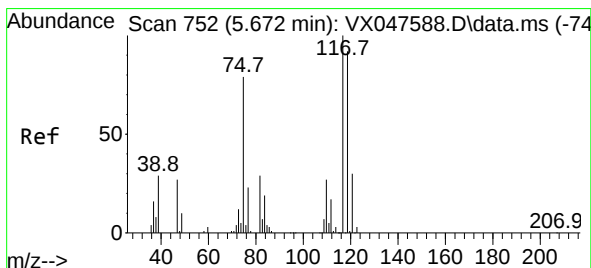
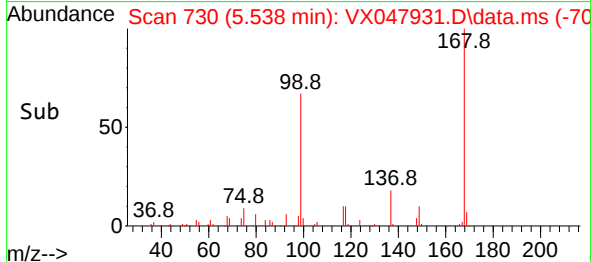
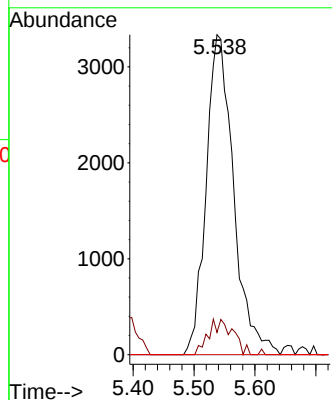
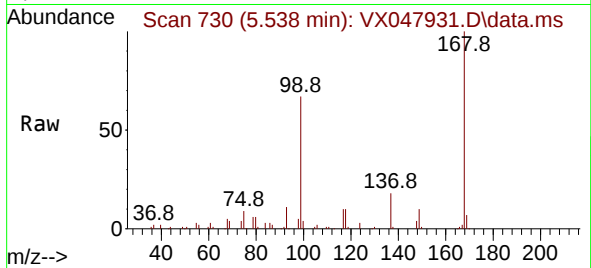




#36
1,1-Dichloropropene
Concen: 4.342 ug/l
RT: 5.538 min Scan# 710
Delta R.T. -0.146 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

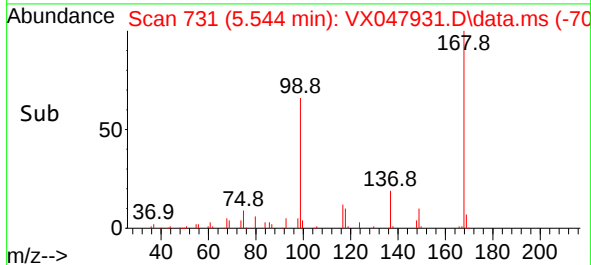
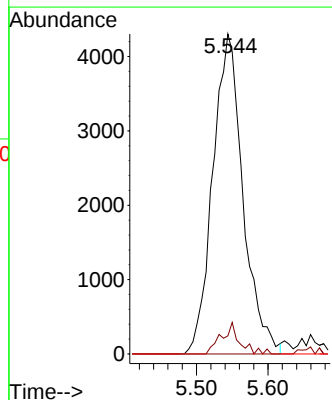
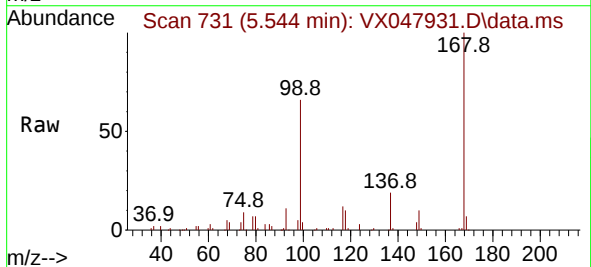
Instrument :
MSVOA_X
ClientSampleId :
RE137-20250922DL

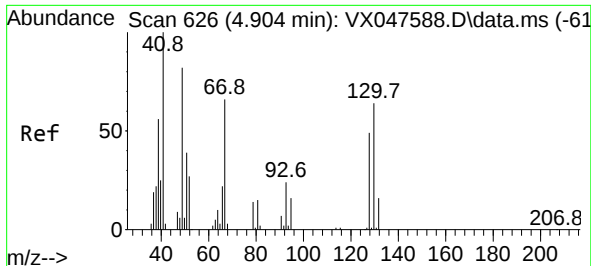
Tgt Ion: 75 Resp: 10430
Ion Ratio Lower Upper
75 100
110 9.9 16.7 50.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 4.833 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.128 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

Tgt Ion: 117 Resp: 12615
Ion Ratio Lower Upper
117 100
119 5.6 73.4 110.2#
121 0.0 23.8 35.6#

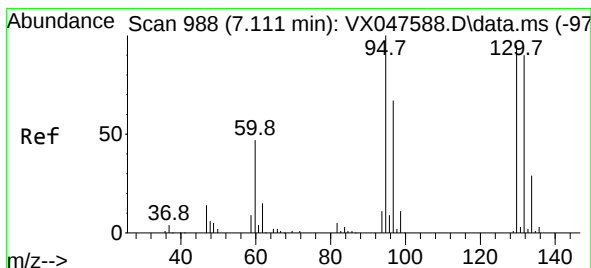
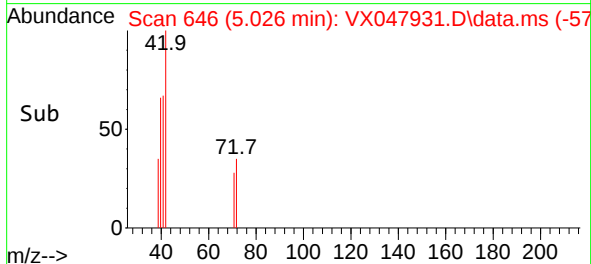
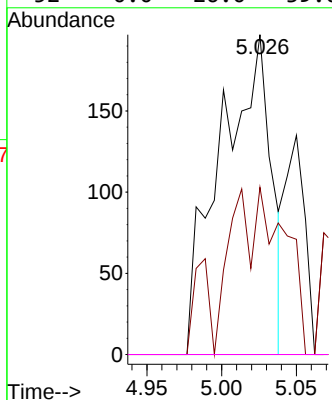
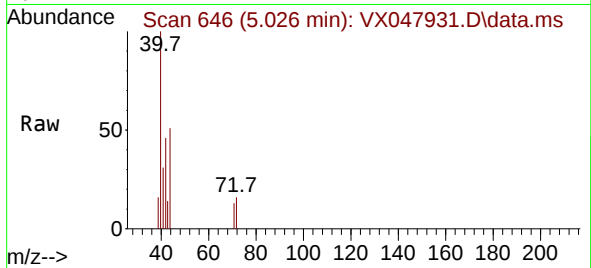




#41
Methacrylonitrile
Concen: 0.349 ug/l
RT: 5.026 min Scan# 641
Delta R.T. 0.122 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

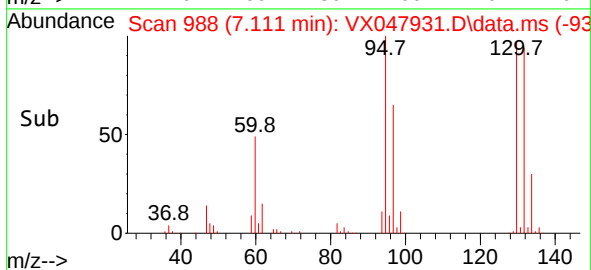
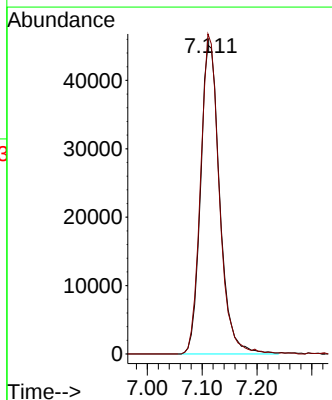
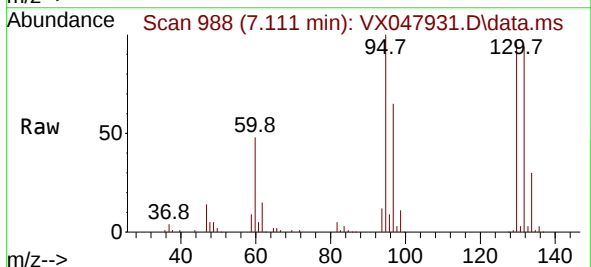
Instrument :
MSVOA_X
ClientSampleId :
RE137-20250922DL

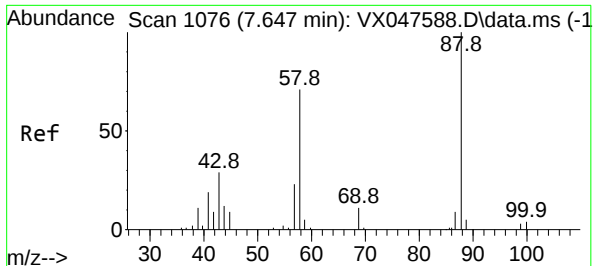
Tgt Ion:	41	Resp:	464
Ion	Ratio	Lower	Upper
41	100		
39	22.8	43.3	64.9#
67	0.0	58.6	87.8#
52	0.0	26.0	39.0#



#44
Trichloroethene
Concen: 62.358 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

Tgt Ion:	130	Resp:	109995
Ion	Ratio	Lower	Upper
130	100		
95	103.7	0.0	210.8





#49

1,4-Dioxane

Concen: 0.895 ug/l

RT: 7.671 min Scan# 1076

Delta R.T. 0.024 min

Lab File: VX047931.D

Acq: 01 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

RE137-20250922DL

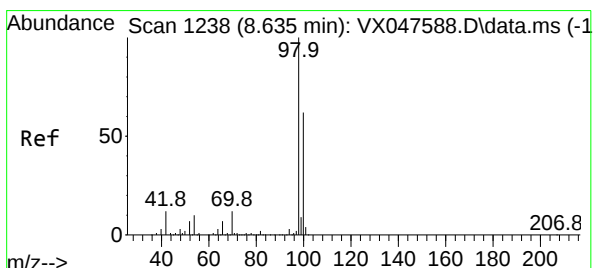
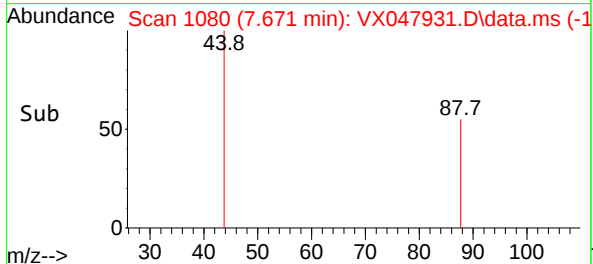
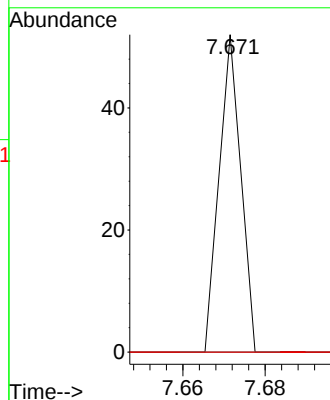
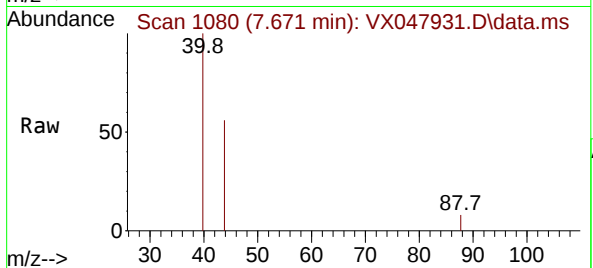
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 30.2 45.2#

58 0.0 59.5 89.3#



#50

Toluene-d8

Concen: 48.964 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VX047931.D

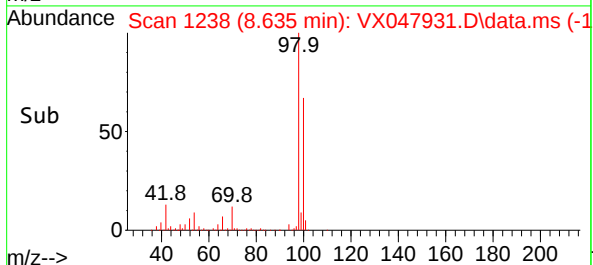
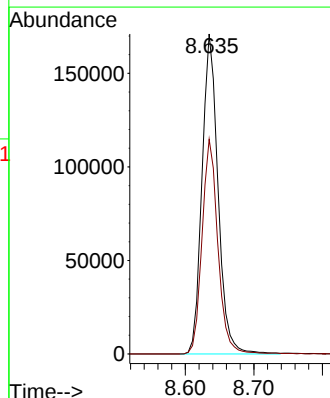
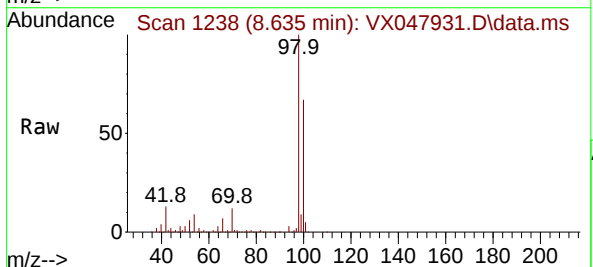
Acq: 01 Oct 2025 12:01

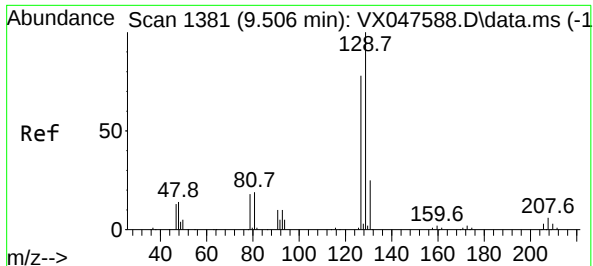
Tgt Ion: 98 Resp: 278526

Ion Ratio Lower Upper

98 100

100 66.5 53.0 79.4

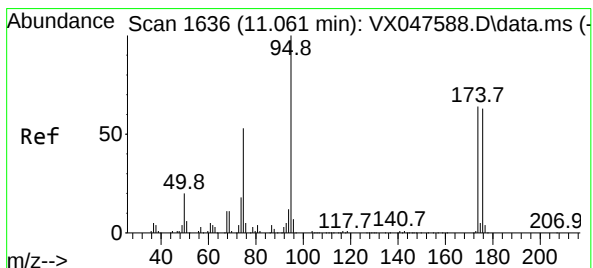
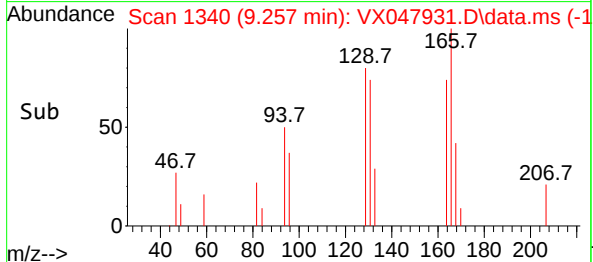
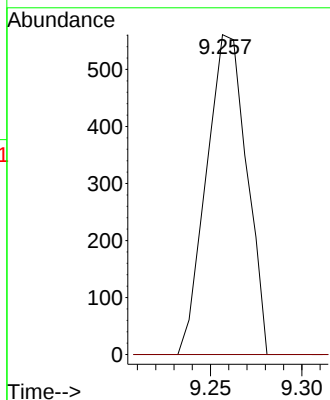
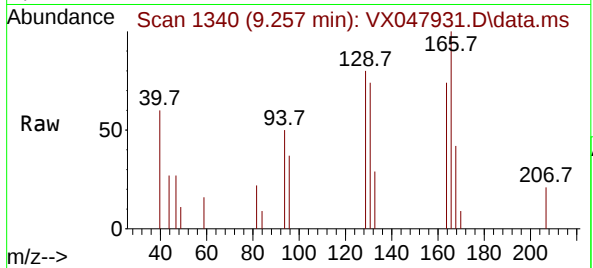




#60
Dibromochloromethane
Concen: 0.431 ug/l
RT: 9.257 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

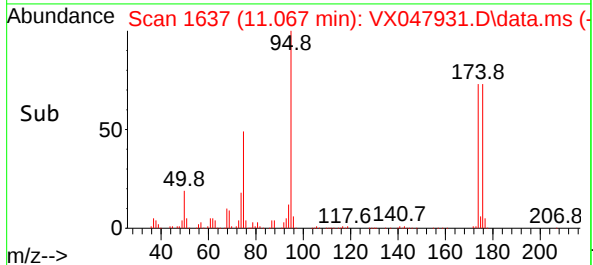
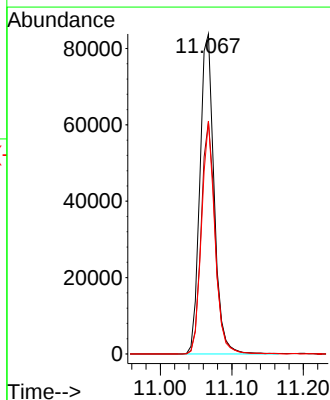
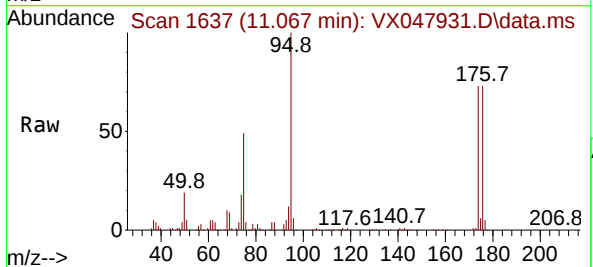
Instrument :
MSVOA_X
ClientSampleId :
RE137-20250922DL

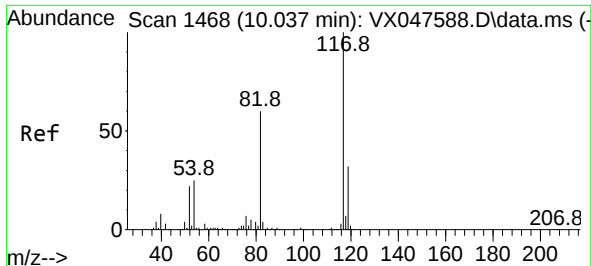
Tgt Ion:129 Resp: 861
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 53.497 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

Tgt Ion: 95 Resp: 115493
Ion Ratio Lower Upper
95 100
174 71.9 0.0 141.6
176 68.7 0.0 138.4

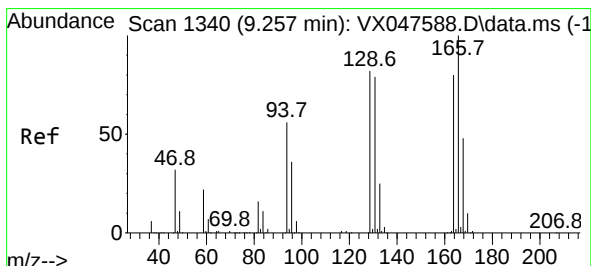
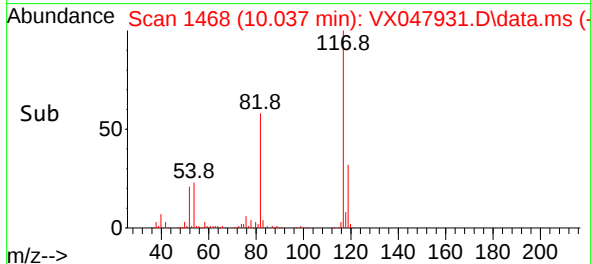
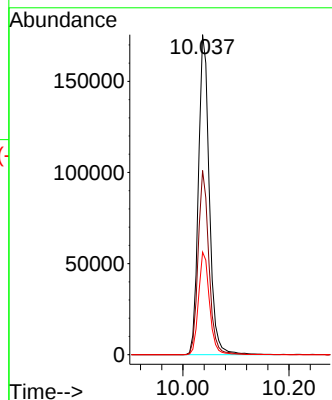
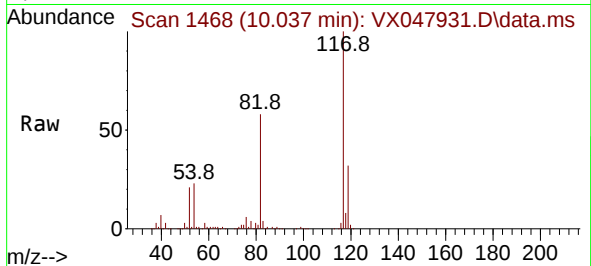




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

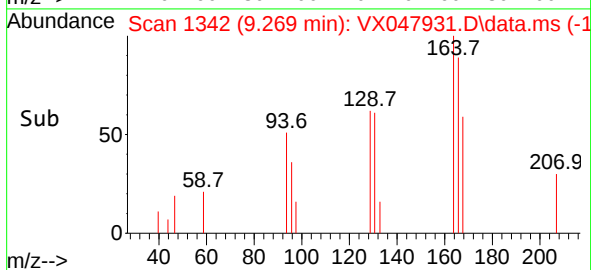
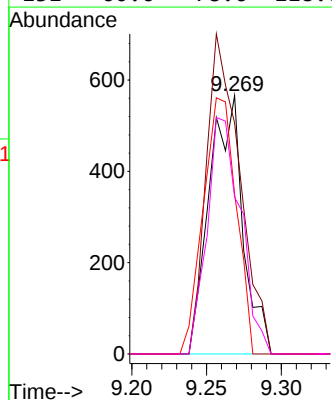
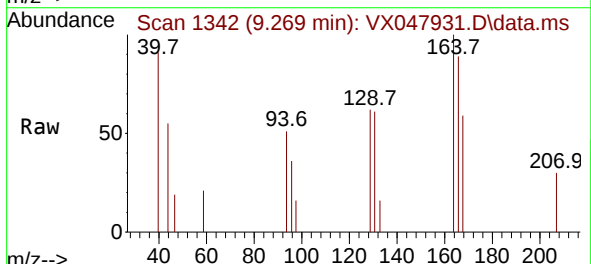
Instrument :
MSVOA_X
ClientSampleId :
RE137-20250922DL

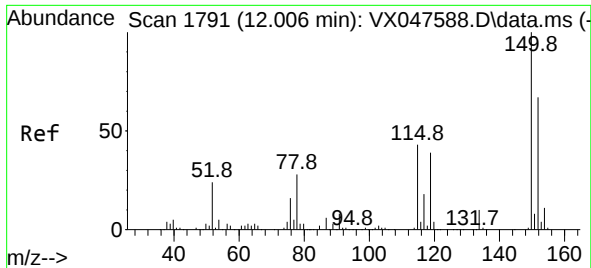
Tgt Ion:117 Resp: 249435
Ion Ratio Lower Upper
117 100
82 57.6 47.8 71.6
119 32.1 25.2 37.8



#64
Tetrachloroethene
Concen: 0.543 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.012 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

Tgt Ion:164 Resp: 883
Ion Ratio Lower Upper
164 100
166 89.4 100.2 150.2#
129 61.8 81.8 122.6#
131 60.6 78.6 118.0#

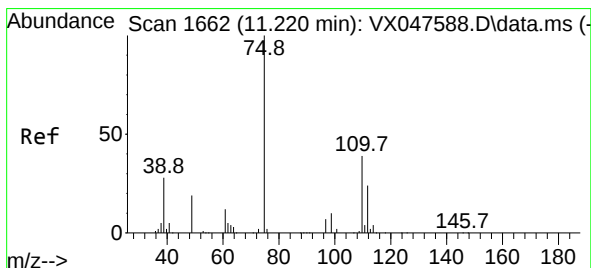
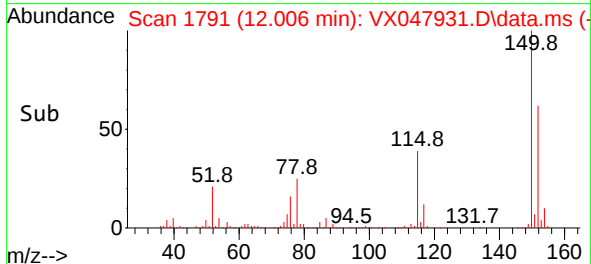
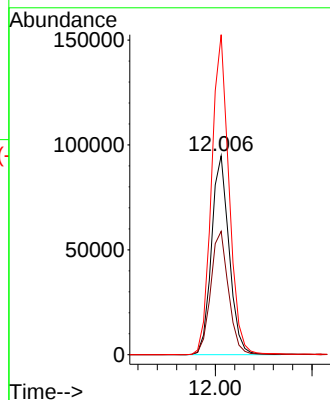
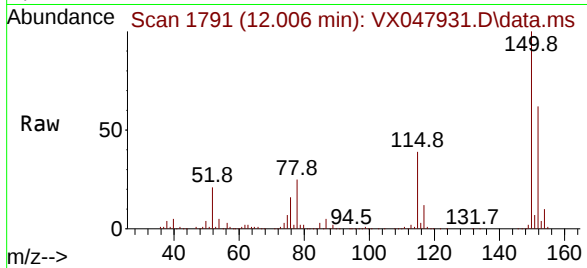




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX047931.D
 Acq: 01 Oct 2025 12:01

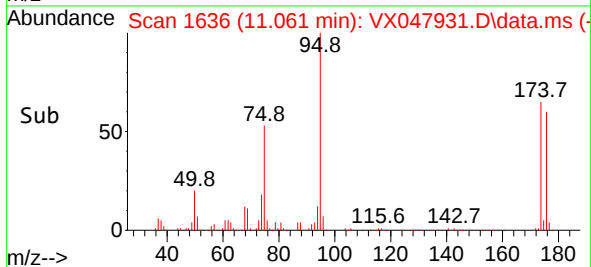
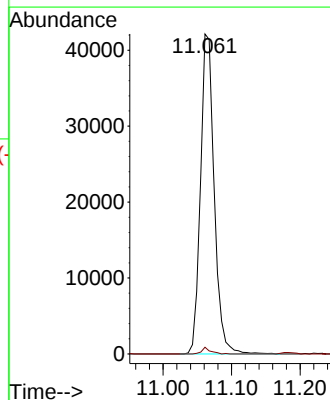
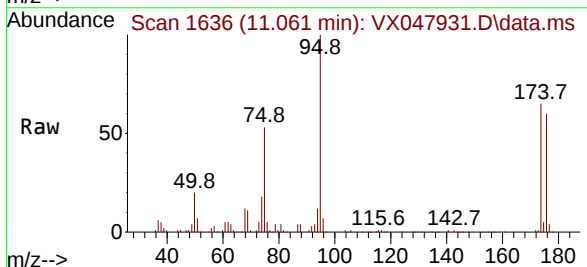
Instrument :
 MSVOA_X
 ClientSampleId :
 RE137-20250922DL

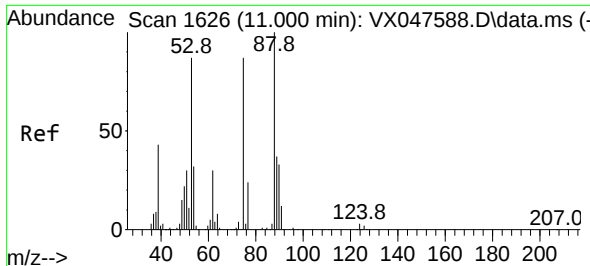
Tgt Ion:152 Resp: 119740
 Ion Ratio Lower Upper
 152 100
 115 62.7 44.9 134.5
 150 159.5 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 24.281 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.158 min
 Lab File: VX047931.D
 Acq: 01 Oct 2025 12:01

Tgt Ion: 75 Resp: 58866
 Ion Ratio Lower Upper
 75 100
 77 1.3 18.8 56.4#

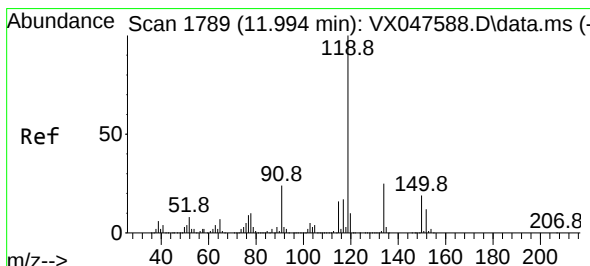
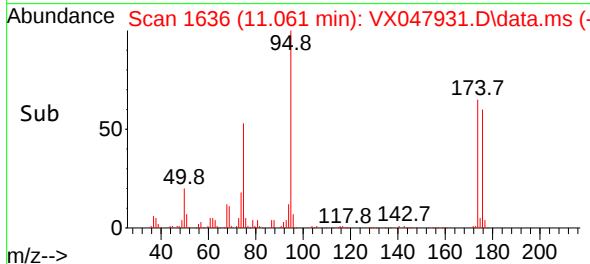
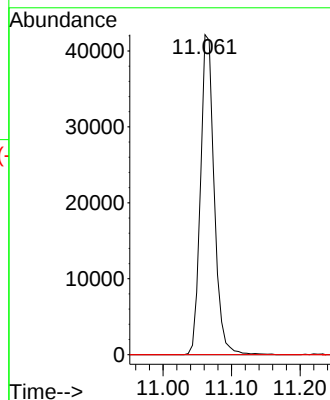
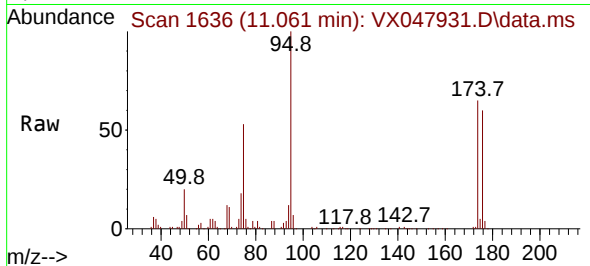




#81
trans-1,4-Dichloro-2-butene
Concen: 61.920 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

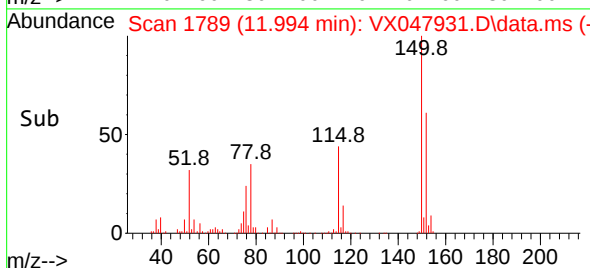
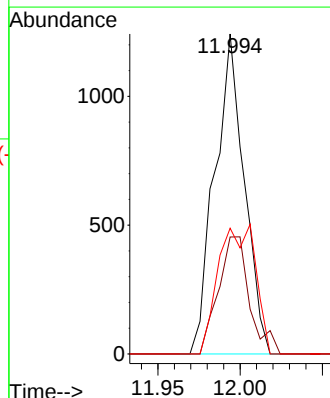
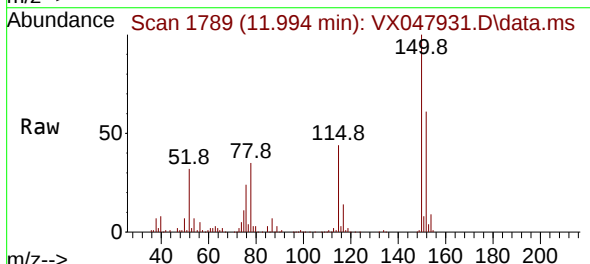
Instrument :
MSVOA_X
ClientSampleId :
RE137-20250922DL

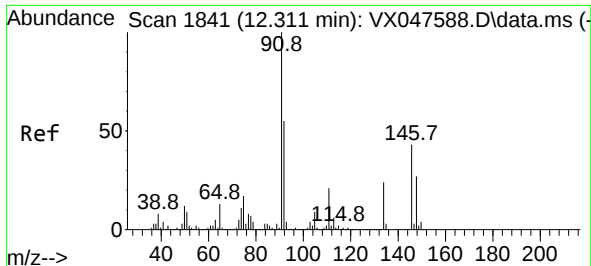
Tgt Ion: 75 Resp: 58866
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#86
p-Isopropyltoluene
Concen: 0.201 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.000 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

Tgt Ion: 119 Resp: 1548
Ion Ratio Lower Upper
119 100
134 38.8 12.6 37.8#
91 50.8 12.6 37.6#

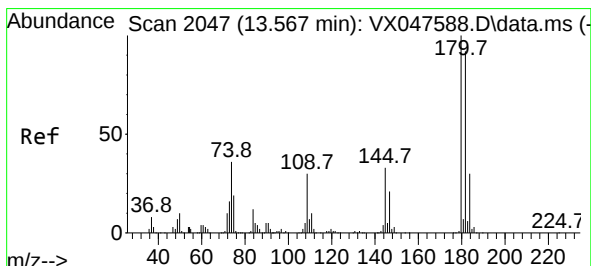
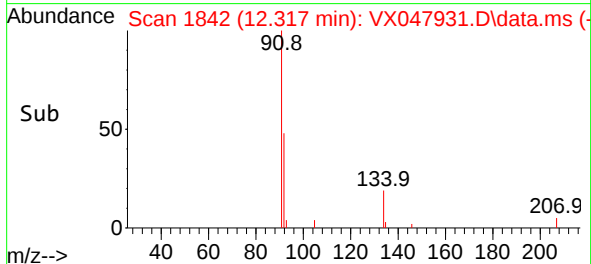
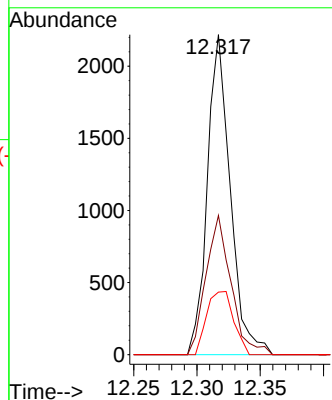
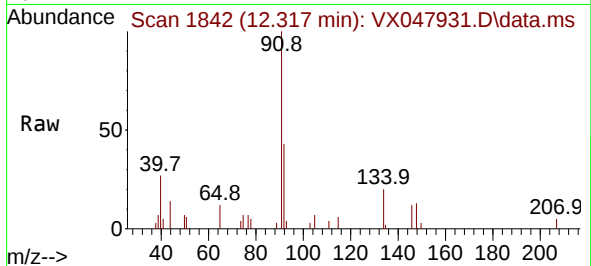




#89
n-Butylbenzene
Concen: 0.393 ug/l
RT: 12.317 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

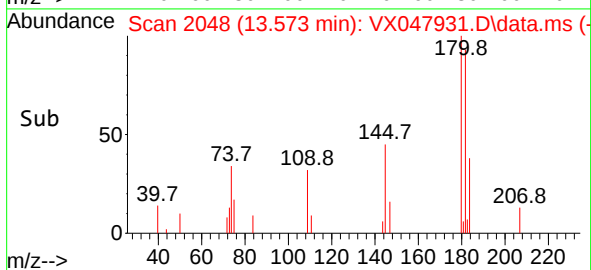
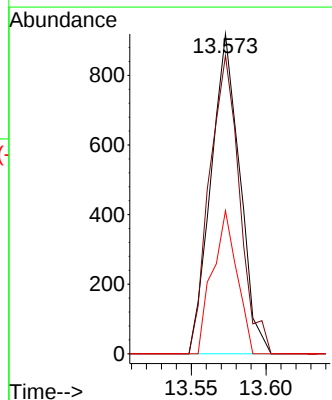
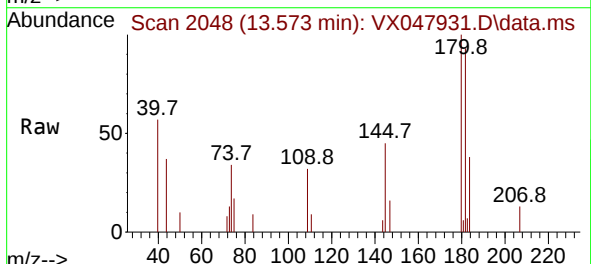
Instrument :
MSVOA_X
ClientSampleId :
RE137-20250922DL

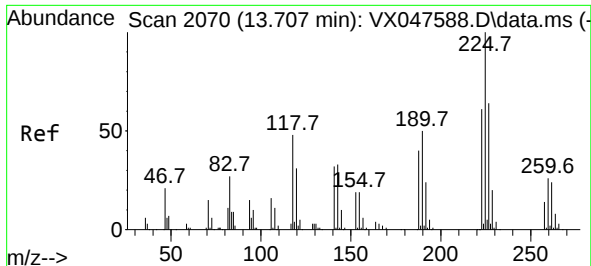
Tgt Ion:	91	Resp:	2798
Ion	Ratio	Lower	Upper
91	100		
92	47.7	27.6	82.7
134	23.1	12.6	37.8



#93
1,2,4-Trichlorobenzene
Concen: 0.479 ug/l
RT: 13.573 min Scan# 2048
Delta R.T. 0.006 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

Tgt Ion:	180	Resp:	1234
Ion	Ratio	Lower	Upper
180	100		
182	97.1	46.6	139.8
145	37.8	16.4	49.1

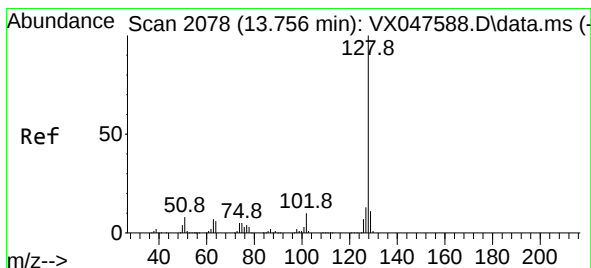
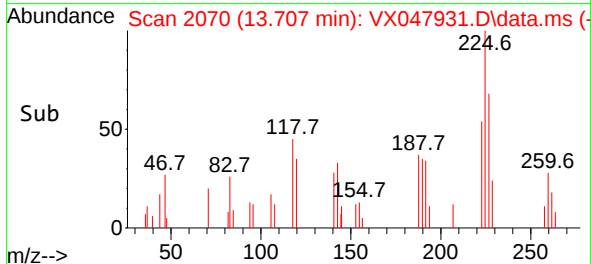
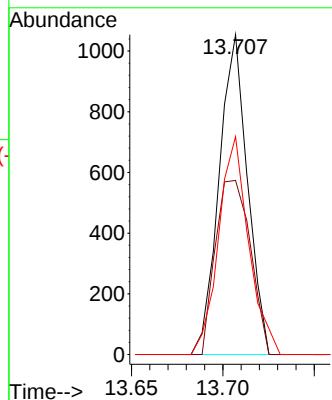
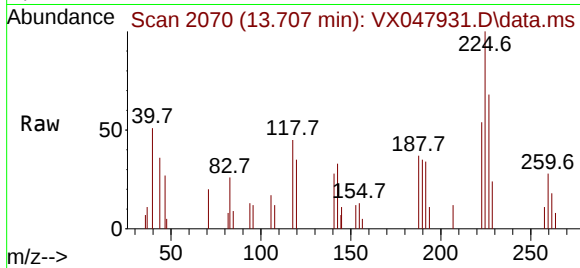




#94
Hexachlorobutadiene
Concen: 1.303 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.000 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

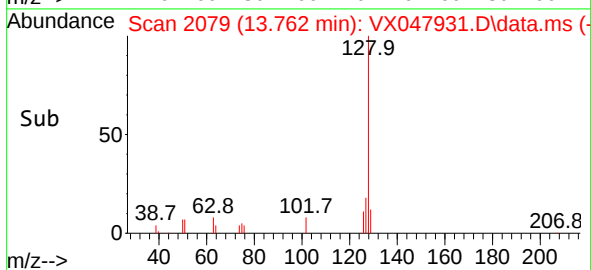
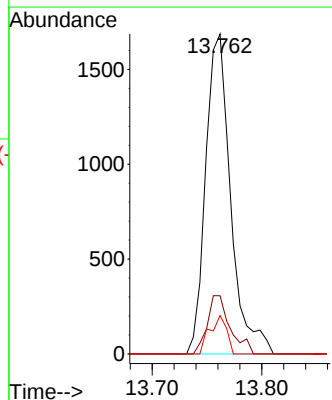
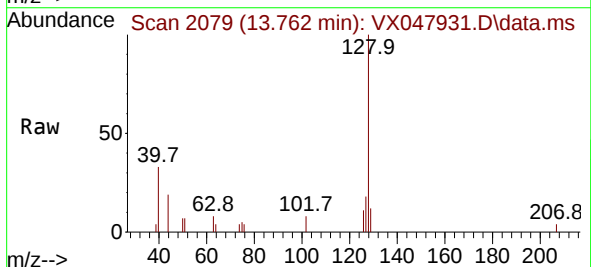
Instrument :
MSVOA_X
ClientSampleId :
RE137-20250922DL

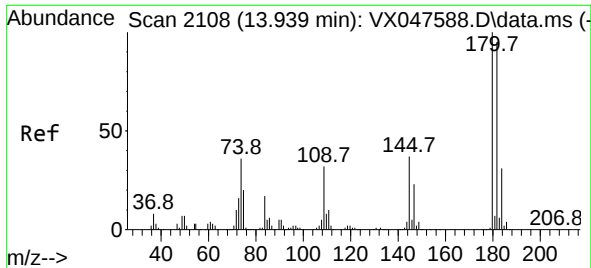
Tgt Ion:225 Resp: 1141
Ion Ratio Lower Upper
225 100
223 67.0 31.7 95.1
227 72.0 32.0 96.0



#95
Naphthalene
Concen: 0.340 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. 0.006 min
Lab File: VX047931.D
Acq: 01 Oct 2025 12:01

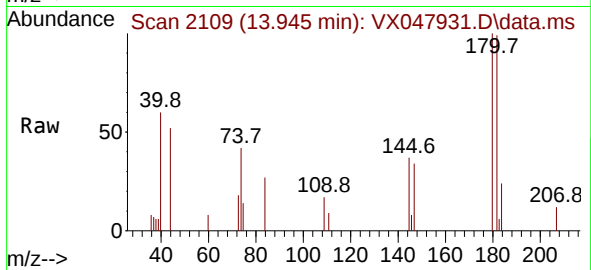
Tgt Ion:128 Resp: 2669
Ion Ratio Lower Upper
128 100
127 16.6 10.2 15.2#
129 8.1 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.498 ug/l
 RT: 13.945 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VX047931.D
 Acq: 01 Oct 2025 12:01

Instrument :
 MSVOA_X
 ClientSampleId :
 RE137-20250922DL



Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.6	142.8
145	27.0	17.9	53.7

