

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
 Data File : VX047310.D
 Acq On : 13 Aug 2025 10:12
 Operator : JC/MD
 Sample : VX0813MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0813MBL01

Quant Time: Aug 14 03:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

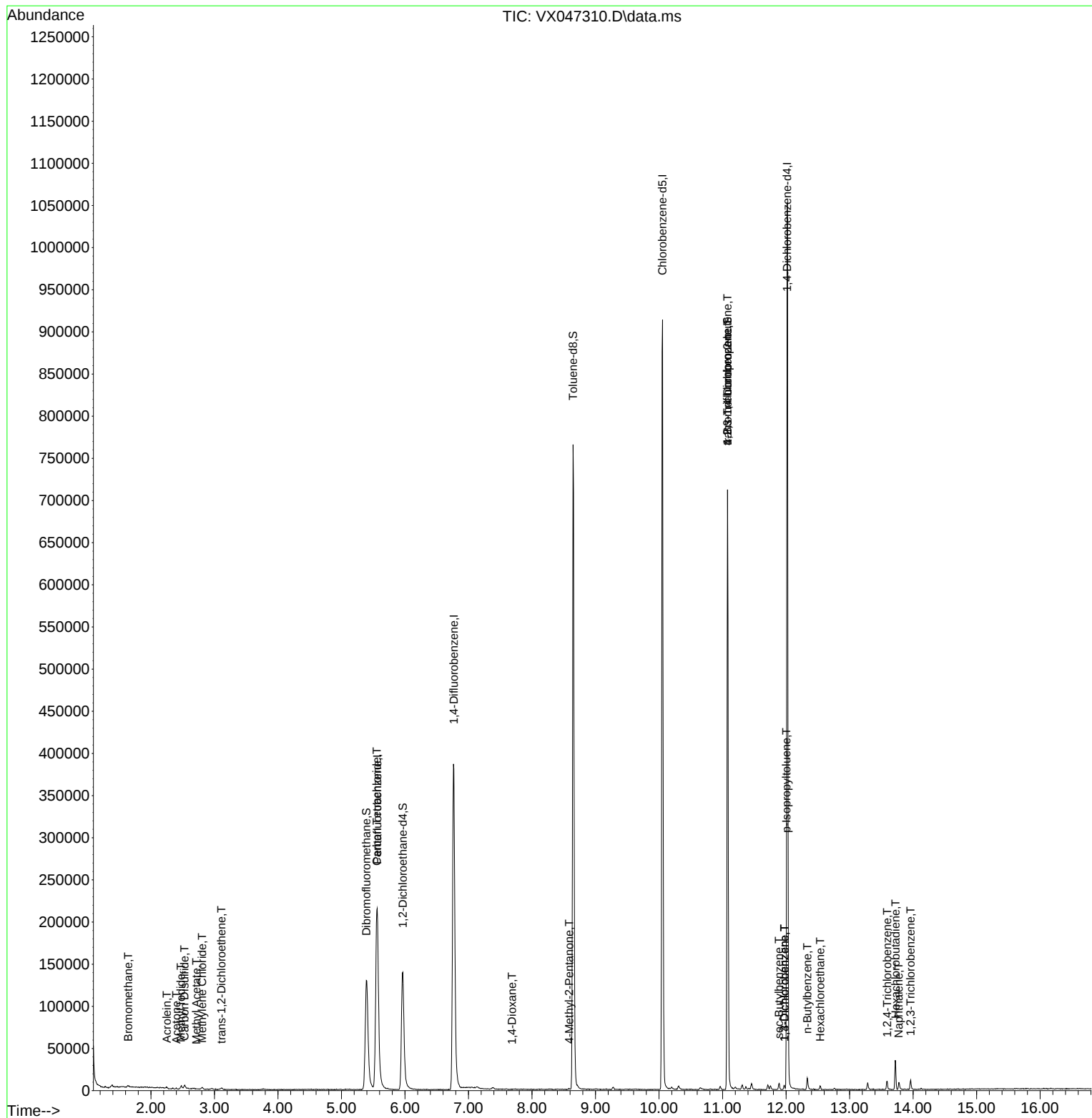
Internal Standards						
1) Pentafluorobenzene	5.562	168	221987	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	425593	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	417665	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	208915	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	150937	54.583	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 109.160%		
35) Dibromofluoromethane	5.391	113	128054	48.731	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 97.460%		
50) Toluene-d8	8.647	98	459447	53.990	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 107.980%		
62) 4-Bromofluorobenzene	11.079	95	190190	51.861	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 103.720%		
Target Compounds						
						Qvalue
5) Bromomethane	1.642	94	837	0.491	ug/l	91
10) Methyl Iodide	2.471	142	5669	1.975	ug/l	98
11) Tert butyl alcohol	2.965	59	273	Below Cal	#	91
13) Acrolein	2.251	56	411	0.690	ug/l #	62
16) Acetone	2.398	43	1810	1.634	ug/l #	68
17) Carbon Disulfide	2.526	76	4833	0.599	ug/l #	76
18) Methyl Acetate	2.715	43	756	0.257	ug/l #	67
20) Methylene Chloride	2.806	84	801	0.263	ug/l #	70
21) trans-1,2-Dichloroethene	3.111	96	598	0.209	ug/l #	86
38) Carbon Tetrachloride	5.556	117	24082	5.037	ug/l #	17
49) 1,4-Dioxane	7.683	88	61	1.530	ug/l #	1
51) 4-Methyl-2-Pentanone	8.586	43	1149	0.300	ug/l #	66
76) 1,2,3-Trichloropropane	11.079	75	98138	25.379	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	98138	65.386	ug/l #	8
85) sec-Butylbenzene	11.890	105	4237	0.248	ug/l	92
86) p-Isopropyltoluene	12.006	119	3944	0.279	ug/l #	81
87) 1,3-Dichlorobenzene	11.975	146	1883	0.251	ug/l	100
88) 1,4-Dichlorobenzene	11.975	146	1883	0.247	ug/l	98
89) n-Butylbenzene	12.335	91	5220	0.393	ug/l	93
90) Hexachloroethane	12.536	117	583	0.230	ug/l	91
93) 1,2,4-Trichlorobenzene	13.591	180	2670	0.563	ug/l	89
94) Hexachlorobutadiene	13.725	225	4456	2.762	ug/l	98
95) Naphthalene	13.774	128	6121	0.440	ug/l #	95
96) 1,2,3-Trichlorobenzene	13.963	180	3131	0.685	ug/l	92

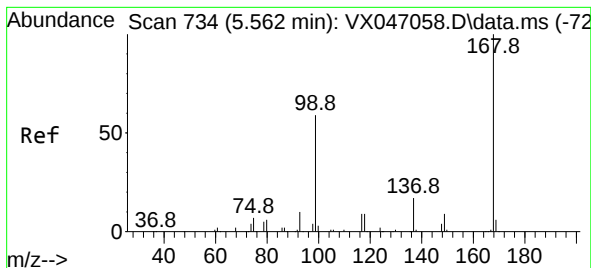
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
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Sample : VX0813MBL01
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ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0813MBL01

Quant Time: Aug 14 03:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.562 min Scan# 71

Delta R.T. -0.000 min

Lab File: VX047310.D

Acq: 13 Aug 2025 10:12

Instrument :

MSVOA_X

ClientSampleId :

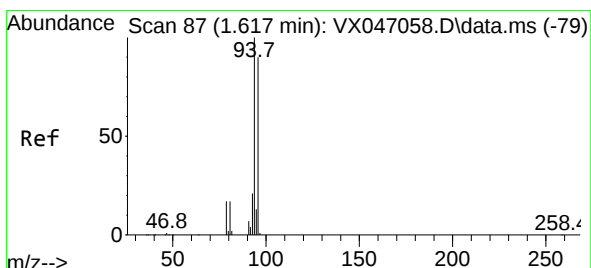
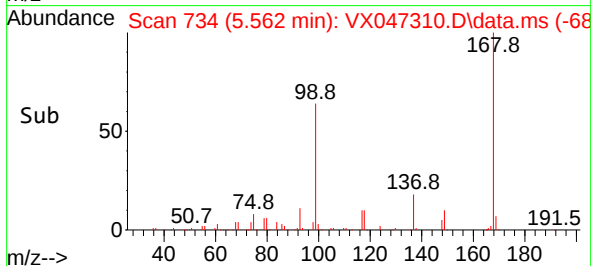
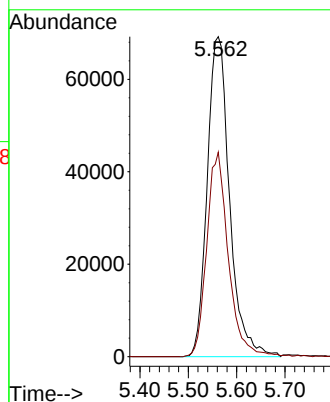
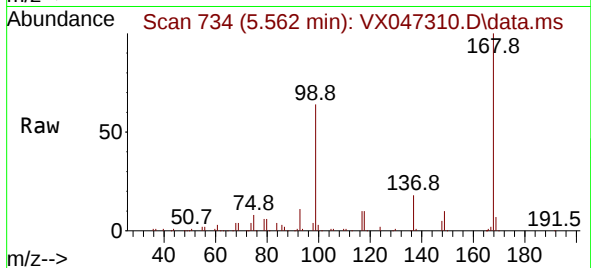
VX0813MBL01

Tgt Ion:168 Resp: 221987

Ion Ratio Lower Upper

168 100

99 63.9 48.0 72.0



#5

Bromomethane

Concen: 0.491 ug/l

RT: 1.642 min Scan# 91

Delta R.T. 0.025 min

Lab File: VX047310.D

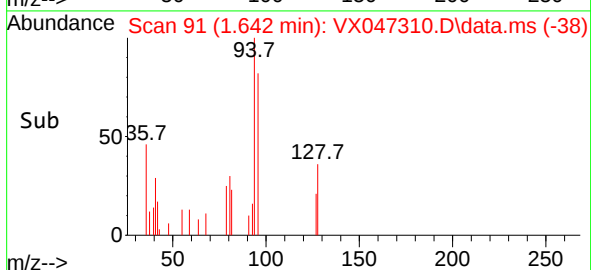
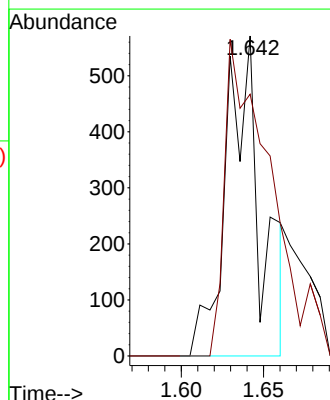
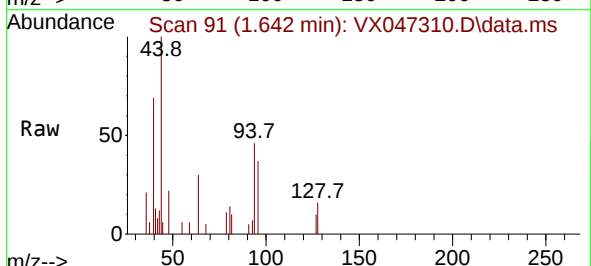
Acq: 13 Aug 2025 10:12

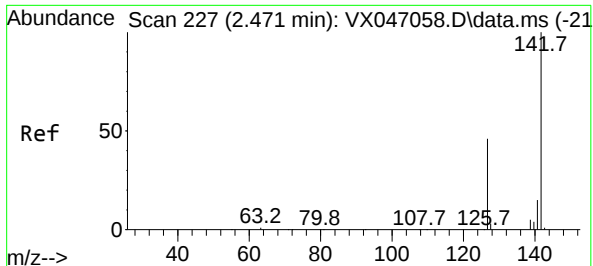
Tgt Ion: 94 Resp: 837

Ion Ratio Lower Upper

94 100

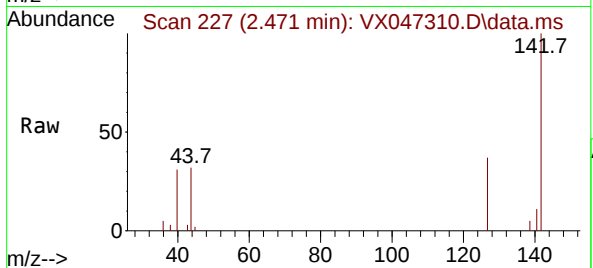
96 81.8 72.3 108.5



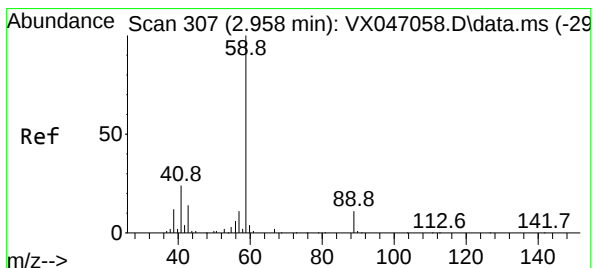
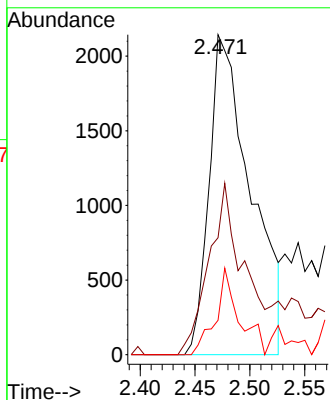
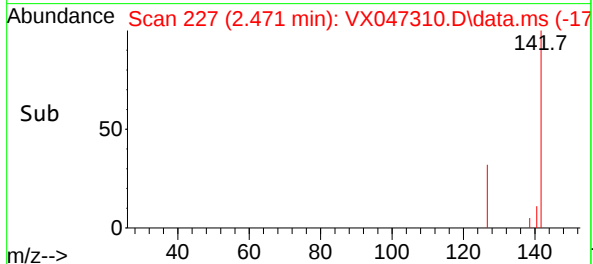


#10
Methyl Iodide
Concen: 1.975 ug/l
RT: 2.471 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

Instrument :
MSVOA_X
ClientSampleId :
VX0813MBL01

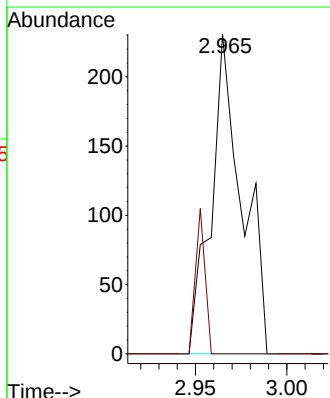
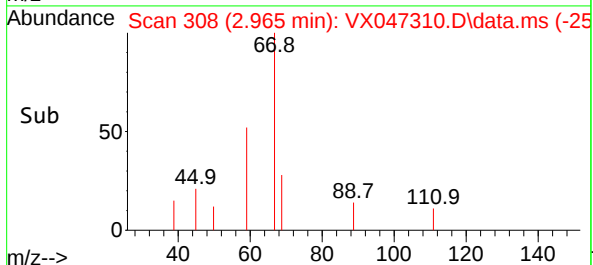
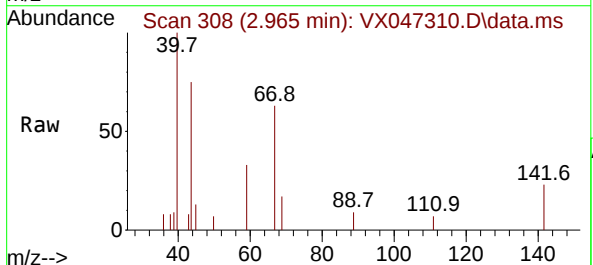


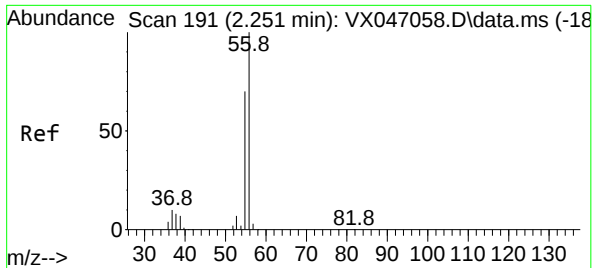
Tgt Ion:	142	Resp:	5669
Ion	Ratio	Lower	Upper
142	100		
127	46.5	36.6	54.8
141	15.3	10.9	16.3



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.965 min Scan# 308
Delta R.T. 0.007 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

Tgt Ion:	59	Resp:	273
Ion	Ratio	Lower	Upper
59	100		
57	13.9	8.5	12.7#

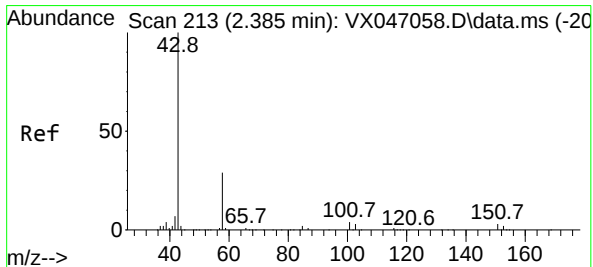
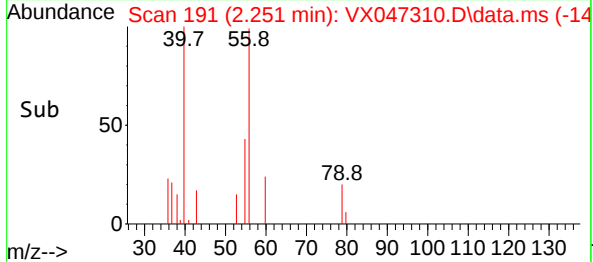
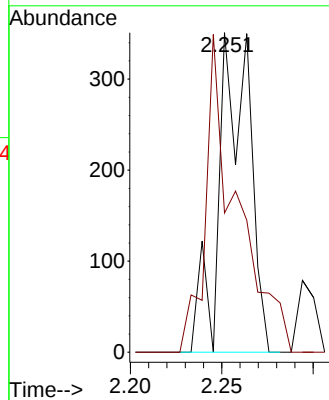
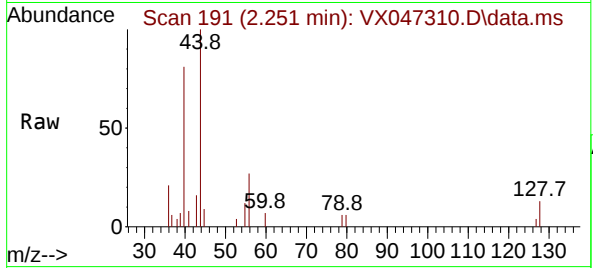




#13
Acrolein
Concen: 0.690 ug/l
RT: 2.251 min Scan# 191
Delta R.T. 0.000 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

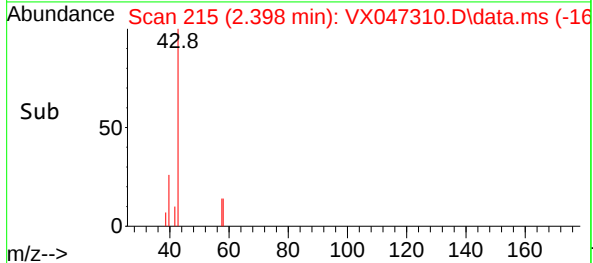
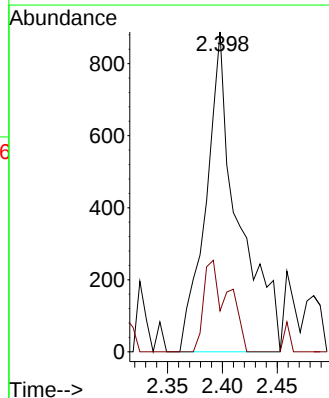
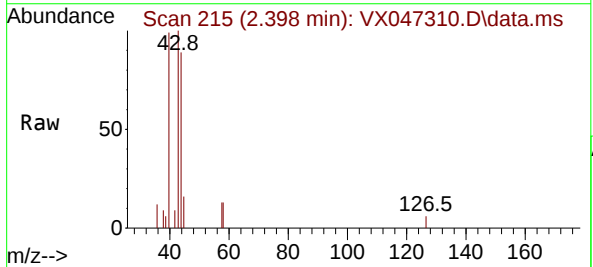
Instrument :
MSVOA_X
ClientSampleId :
VX0813MBL01

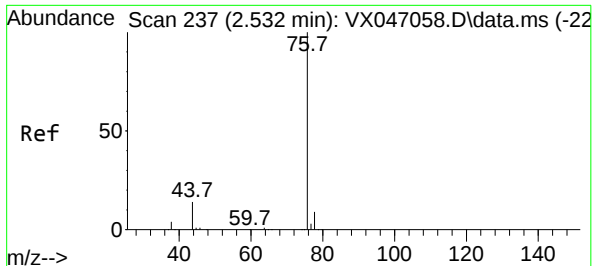
Tgt Ion: 56 Resp: 411
Ion Ratio Lower Upper
56 100
55 100.5 55.7 83.5#



#16
Acetone
Concen: 1.634 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.012 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

Tgt Ion: 43 Resp: 1810
Ion Ratio Lower Upper
43 100
58 12.8 24.0 36.0#





#17

Carbon Disulfide

Concen: 0.599 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX047310.D

Acq: 13 Aug 2025 10:12

Instrument :

MSVOA_X

ClientSampleId :

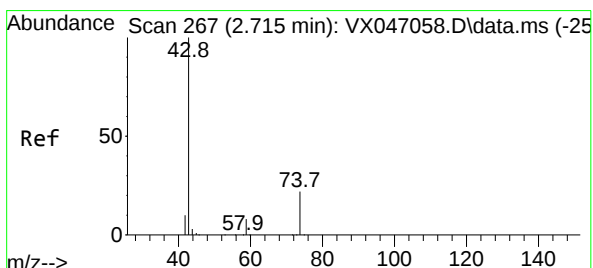
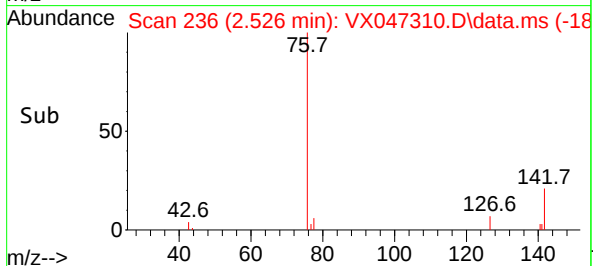
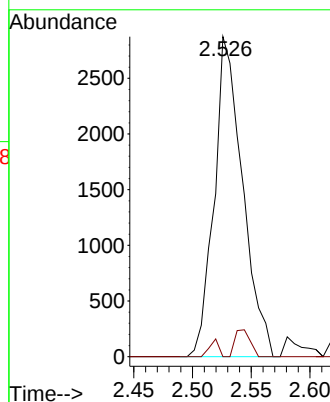
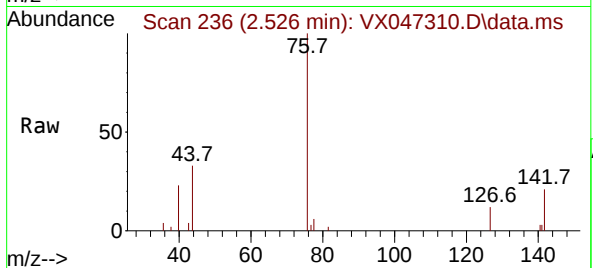
VX0813MBL01

Tgt Ion: 76 Resp: 4833

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



#18

Methyl Acetate

Concen: 0.257 ug/l

RT: 2.715 min Scan# 267

Delta R.T. 0.000 min

Lab File: VX047310.D

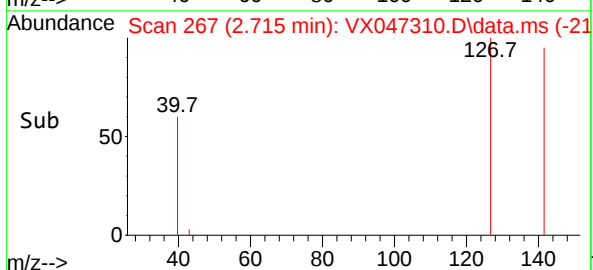
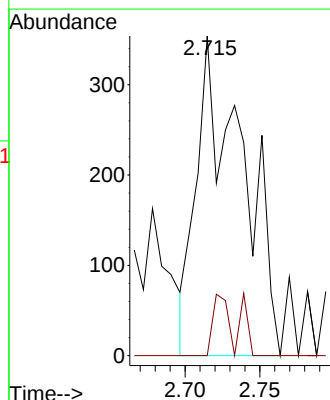
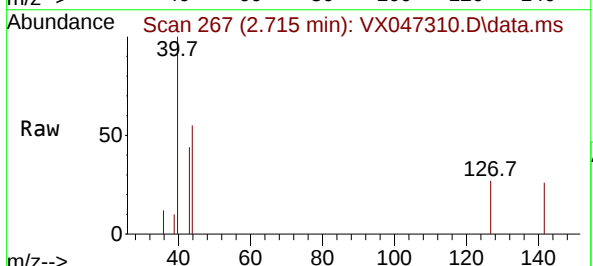
Acq: 13 Aug 2025 10:12

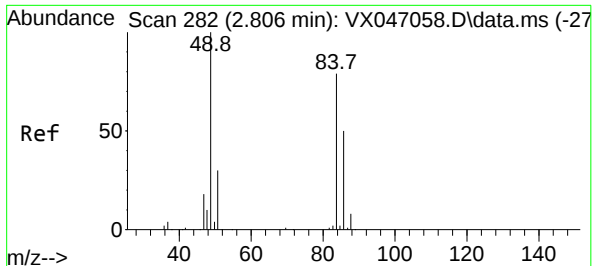
Tgt Ion: 43 Resp: 756

Ion Ratio Lower Upper

43 100

74 6.2 17.7 26.5#

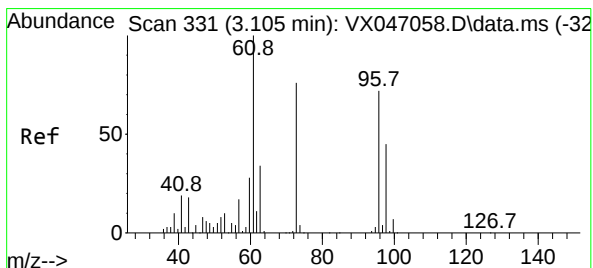
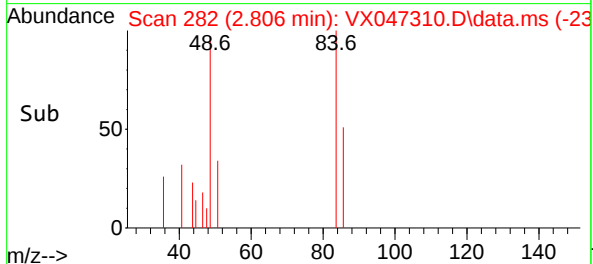
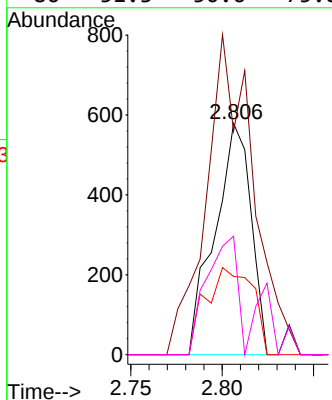
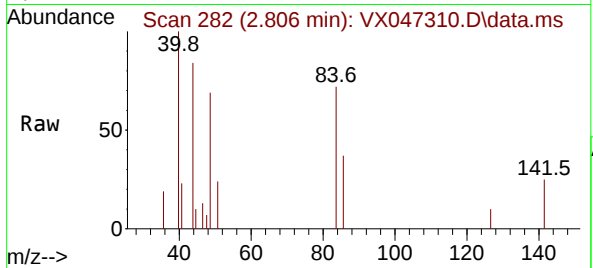




#20
Methylene Chloride
Concen: 0.263 ug/l
RT: 2.806 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

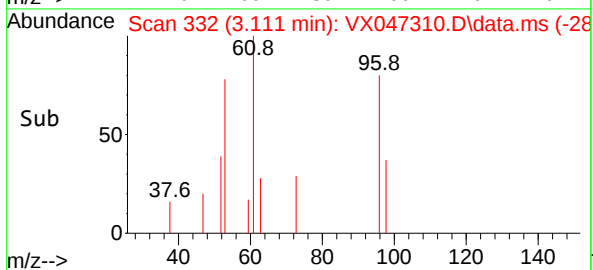
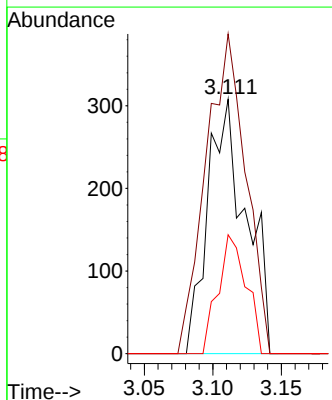
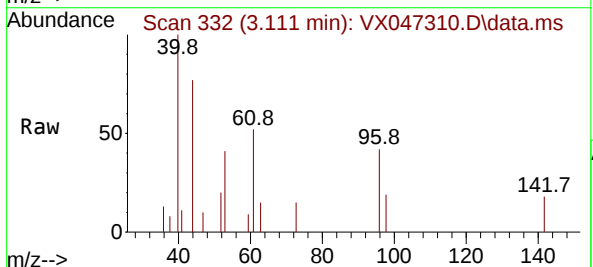
Instrument :
MSVOA_X
ClientSampleId :
VX0813MBL01

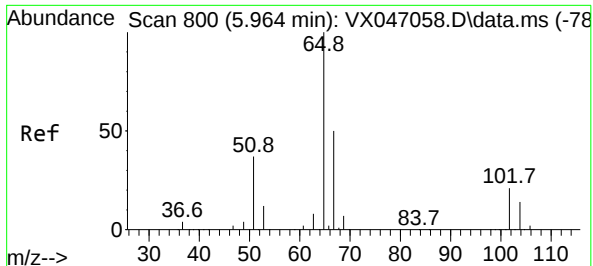
Tgt Ion:	84	Resp:	801
Ion	Ratio	Lower	Upper
84	100		
49	76.7	101.6	152.4#
51	33.9	30.3	45.5
86	51.3	50.6	75.8



#21
trans-1,2-Dichloroethene
Concen: 0.209 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.006 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

Tgt Ion:	96	Resp:	598
Ion	Ratio	Lower	Upper
96	100		
61	125.6	111.1	166.7
98	46.8	49.6	74.4#





#33

1,2-Dichloroethane-d4

Concen: 54.583 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047310.D

Acq: 13 Aug 2025 10:12

Instrument :

MSVOA_X

ClientSampleId :

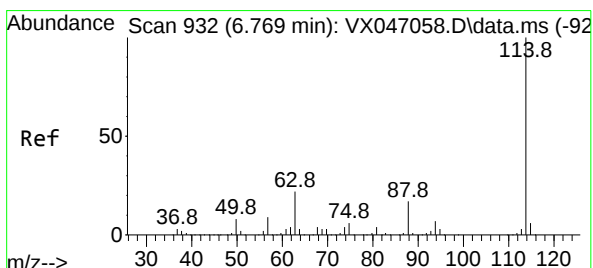
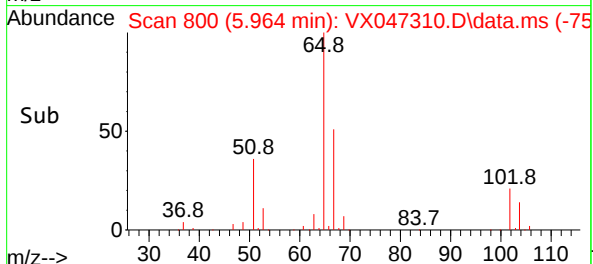
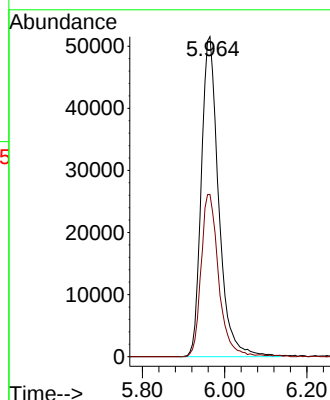
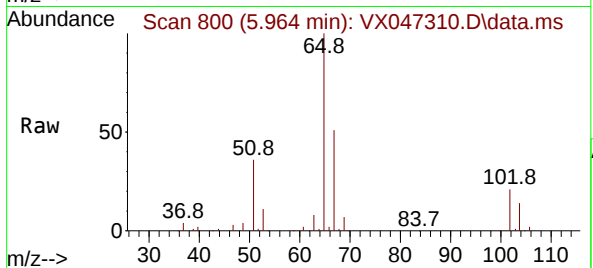
VX0813MBL01

Tgt Ion: 65 Resp: 150937

Ion Ratio Lower Upper

65 100

67 51.0 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047310.D

Acq: 13 Aug 2025 10:12

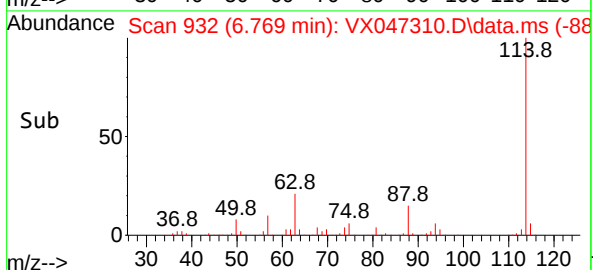
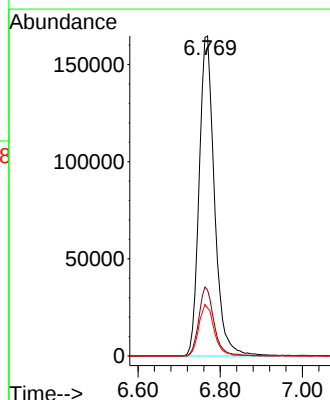
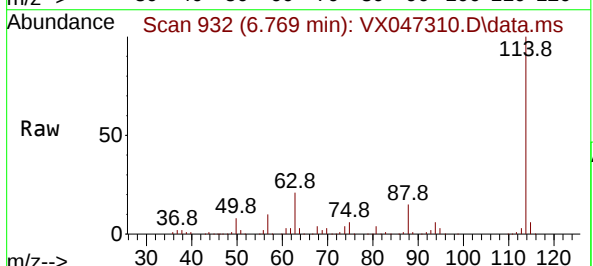
Tgt Ion: 114 Resp: 425593

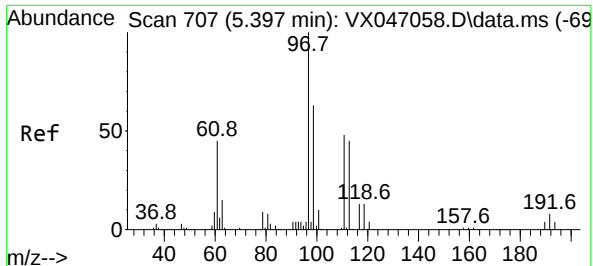
Ion Ratio Lower Upper

114 100

63 20.6 0.0 43.2

88 14.9 0.0 33.8

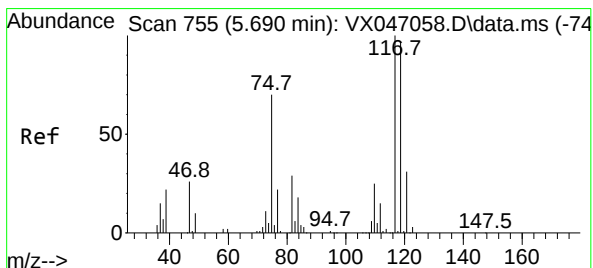
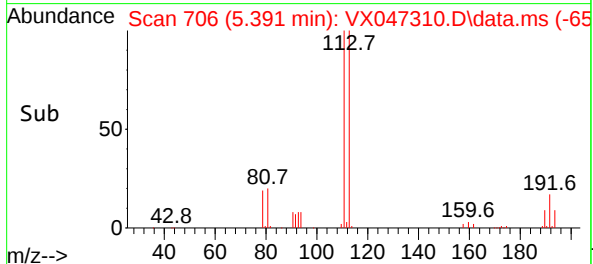
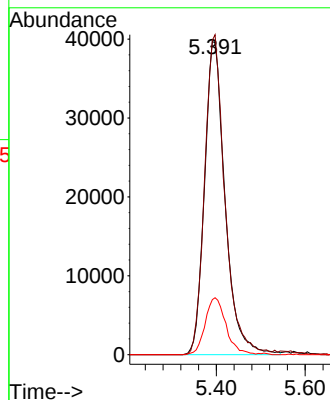
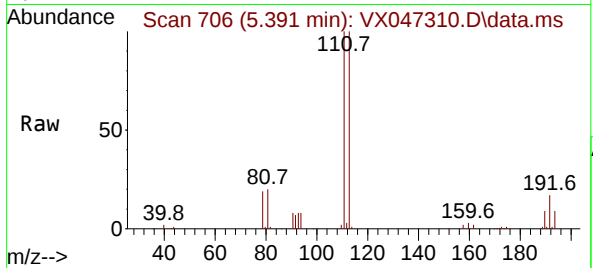




#35
Dibromofluoromethane
Concen: 48.731 ug/l
RT: 5.391 min Scan# 707
Delta R.T. -0.006 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

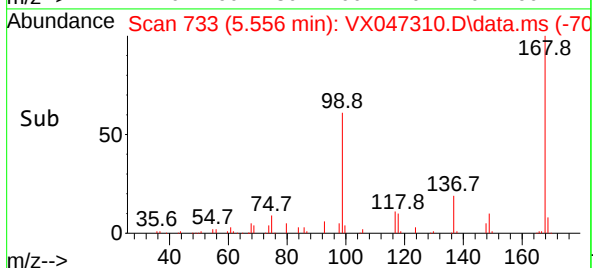
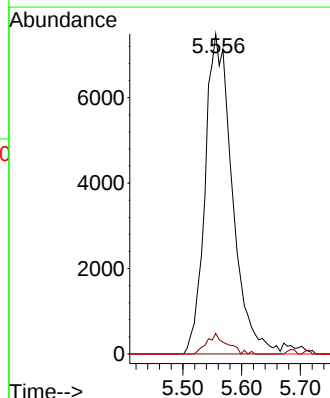
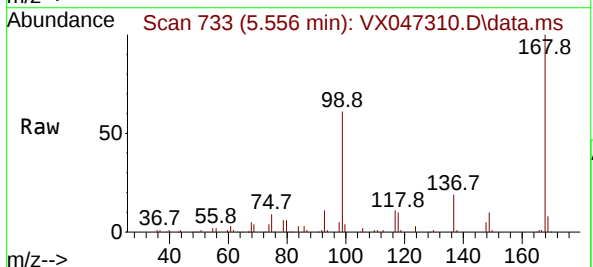
Instrument :
MSVOA_X
ClientSampleId :
VX0813MBL01

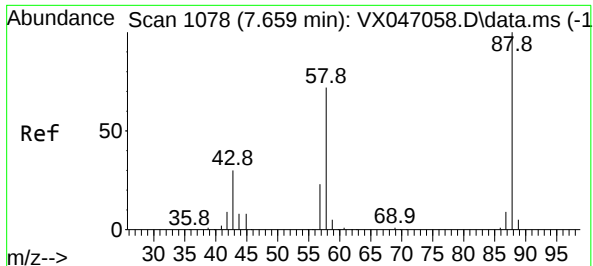
Tgt Ion:113 Resp: 128054
Ion Ratio Lower Upper
113 100
111 100.6 82.6 124.0
192 18.4 14.9 22.3



#38
Carbon Tetrachloride
Concen: 5.037 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.134 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

Tgt Ion:117 Resp: 24082
Ion Ratio Lower Upper
117 100
119 6.4 76.6 115.0#
121 0.0 24.4 36.6#





#49

1,4-Dioxane

Concen: 1.530 ug/l

RT: 7.683 min Scan# 1082

Delta R.T. 0.025 min

Lab File: VX047310.D

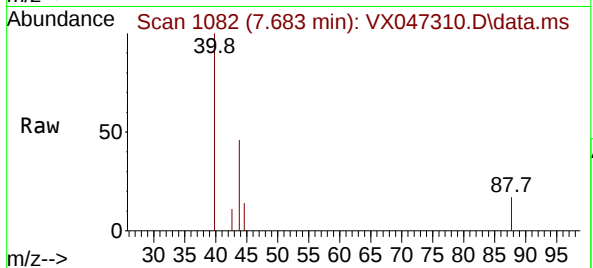
Acq: 13 Aug 2025 10:12

Instrument :

MSVOA_X

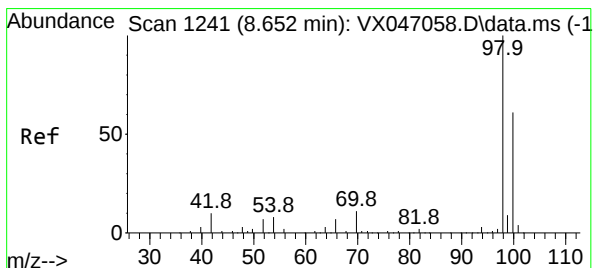
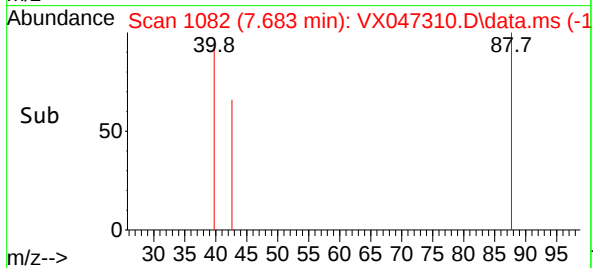
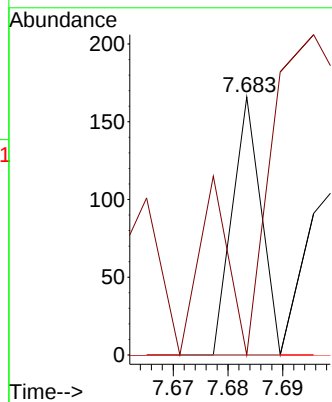
ClientSampleId :

VX0813MBL01



Tgt Ion: 88 Resp: 61

Ion	Ratio	Lower	Upper
88	100		
43	657.4	33.6	50.4#
58	0.0	58.8	88.2#



#50

Toluene-d8

Concen: 53.990 ug/l

RT: 8.647 min Scan# 1240

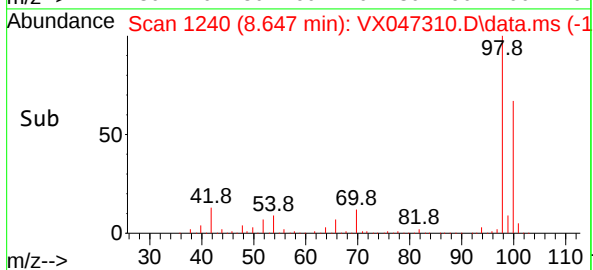
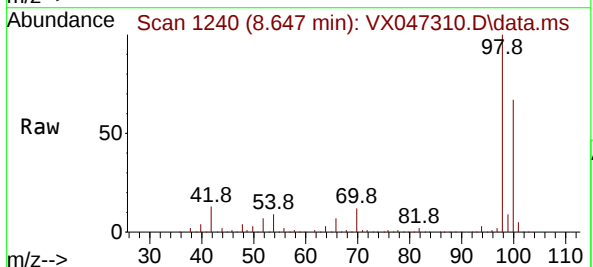
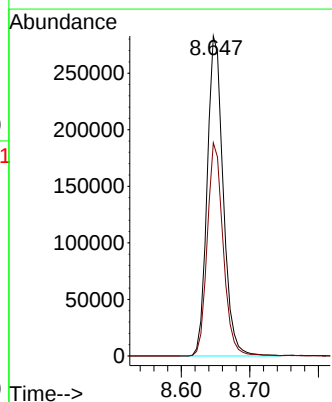
Delta R.T. -0.006 min

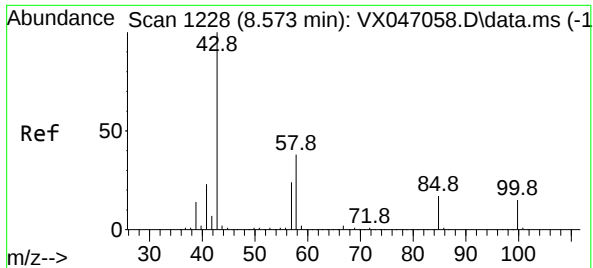
Lab File: VX047310.D

Acq: 13 Aug 2025 10:12

Tgt Ion: 98 Resp: 459447

Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.3	79.9

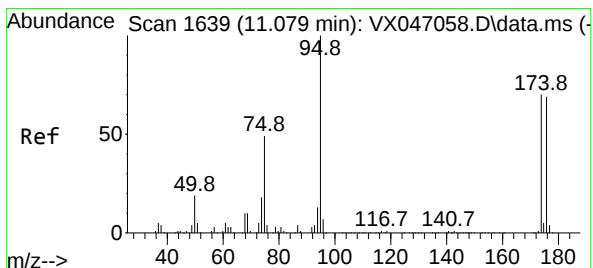
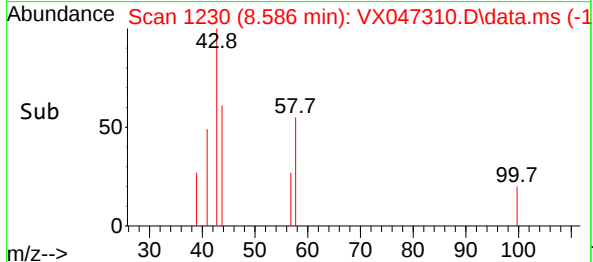
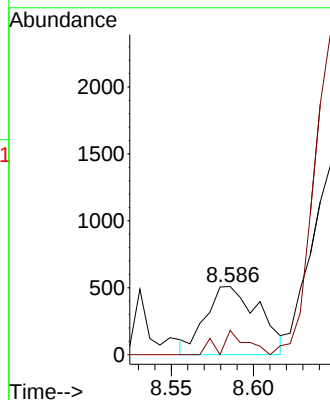
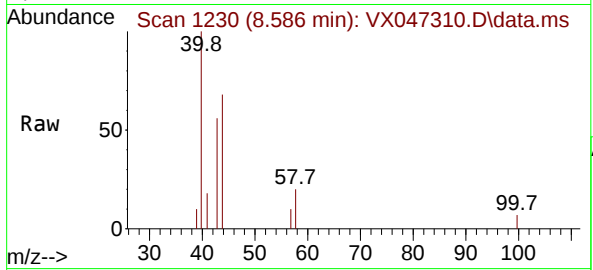




#51
4-Methyl-2-Pentanone
Concen: 0.300 ug/l
RT: 8.586 min Scan# 1149
Delta R.T. 0.012 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

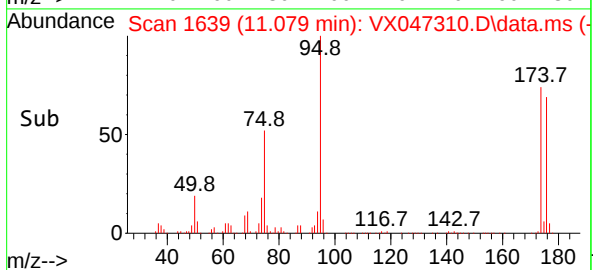
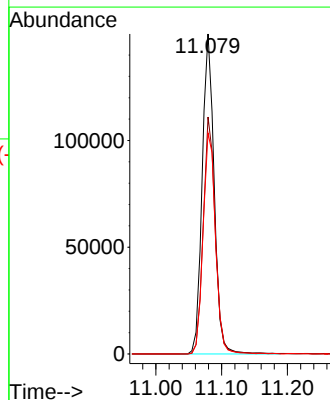
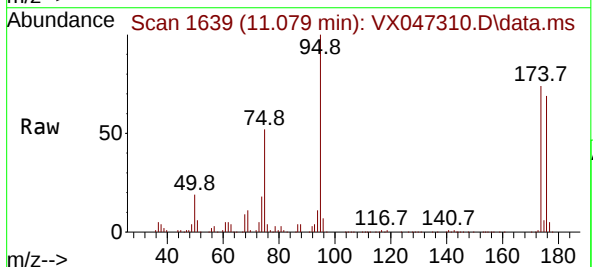
Instrument :
MSVOA_X
ClientSampleId :
VX0813MBL01

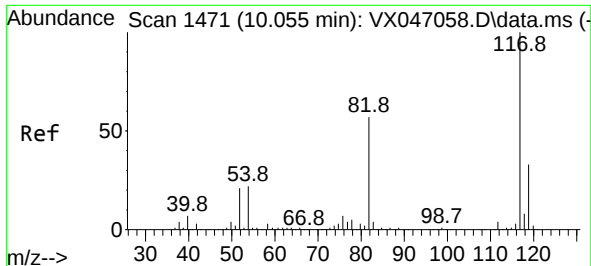
Tgt Ion: 43 Resp: 1149
Ion Ratio Lower Upper
43 100
58 17.5 30.6 45.8#



#62
4-Bromofluorobenzene
Concen: 51.861 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

Tgt Ion: 95 Resp: 190190
Ion Ratio Lower Upper
95 100
174 74.2 0.0 144.6
176 71.4 0.0 139.6

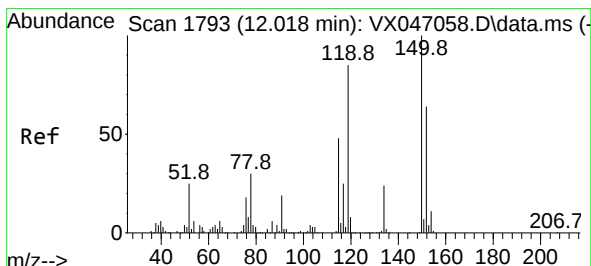
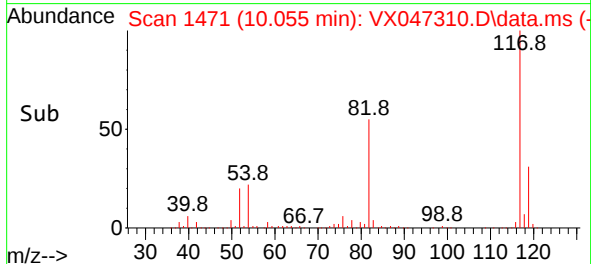
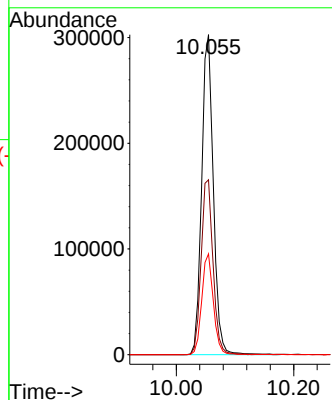
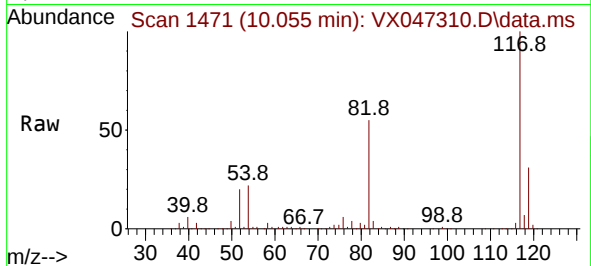




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

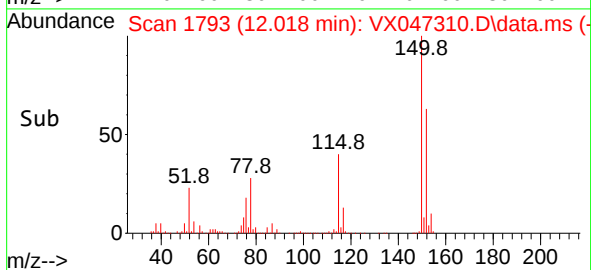
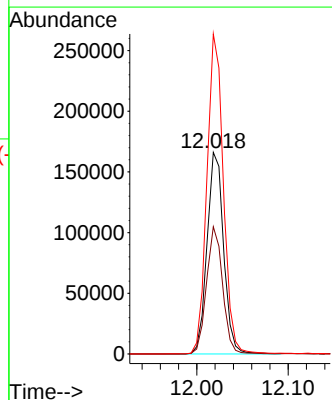
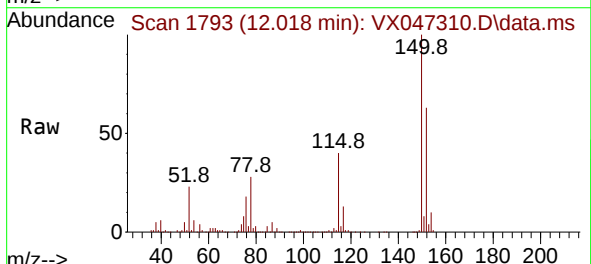
Instrument :
MSVOA_X
ClientSampleId :
VX0813MBL01

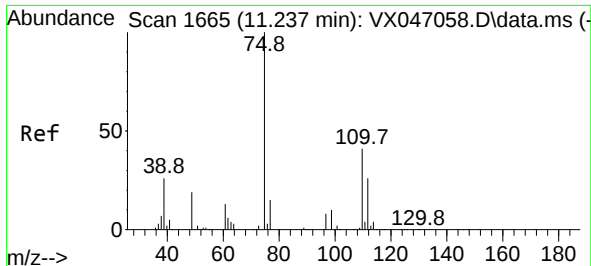
Tgt Ion:117 Resp: 417665
Ion Ratio Lower Upper
117 100
82 54.7 45.4 68.2
119 31.5 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

Tgt Ion:152 Resp: 208915
Ion Ratio Lower Upper
152 100
115 61.2 45.6 136.7
150 157.4 0.0 354.6

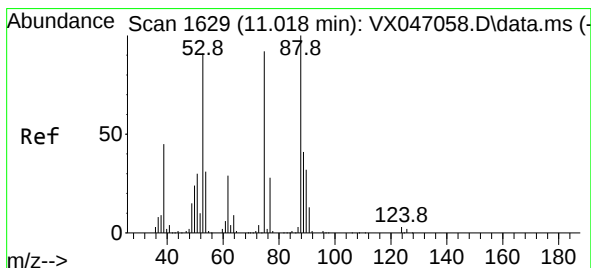
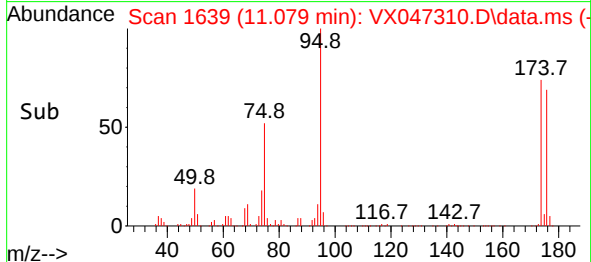
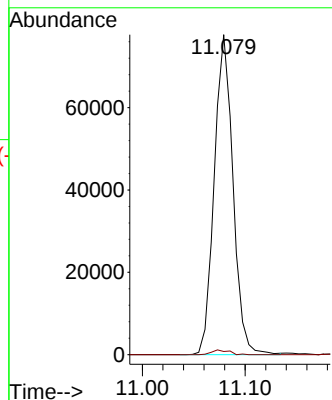
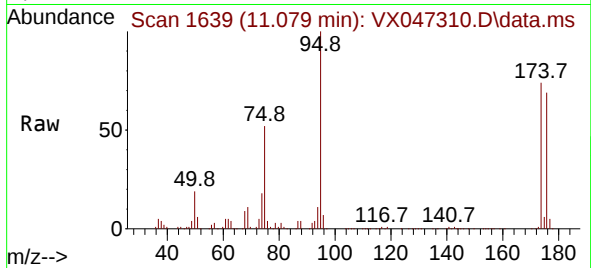




#76
1,2,3-Trichloropropane
Concen: 25.379 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

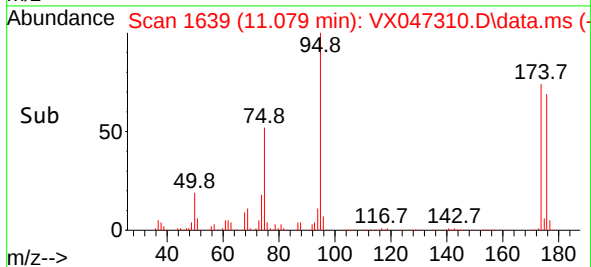
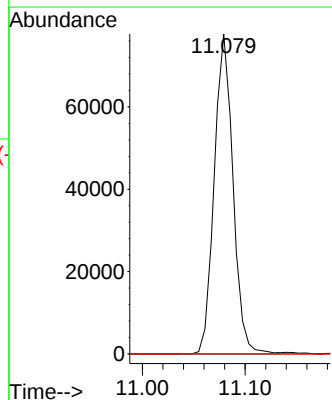
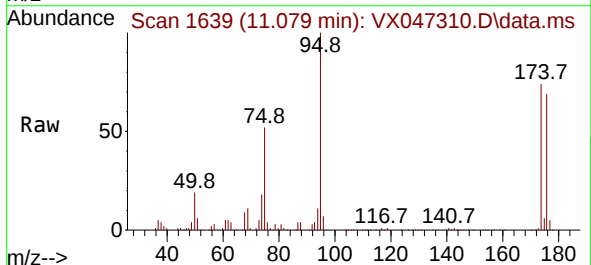
Instrument :
MSVOA_X
ClientSampleId :
VX0813MBL01

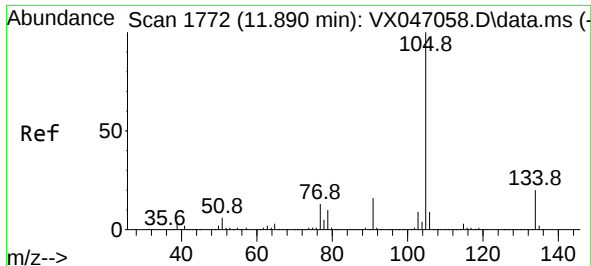
Tgt Ion: 75 Resp: 98138
Ion Ratio Lower Upper
75 100
77 1.4 21.6 65.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.386 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

Tgt Ion: 75 Resp: 98138
Ion Ratio Lower Upper
75 100
53 0.0 84.2 126.4#
89 0.0 36.0 54.0#

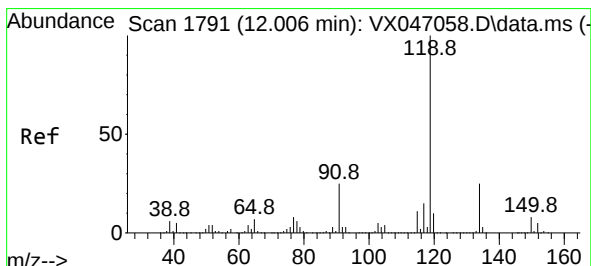
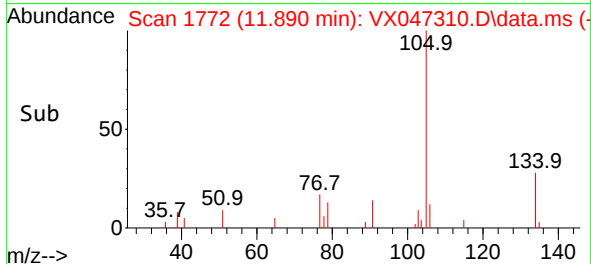
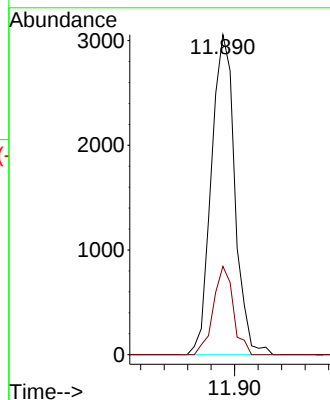
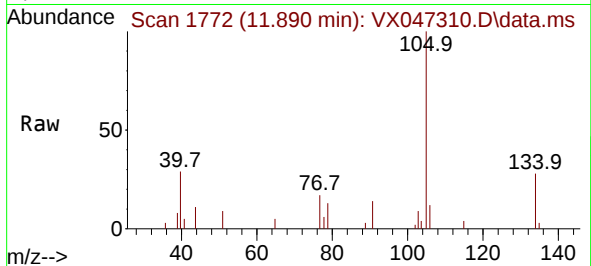




#85
 sec-Butylbenzene
 Concen: 0.248 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VX047310.D
 Acq: 13 Aug 2025 10:12

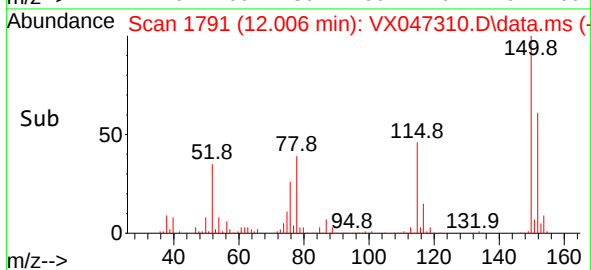
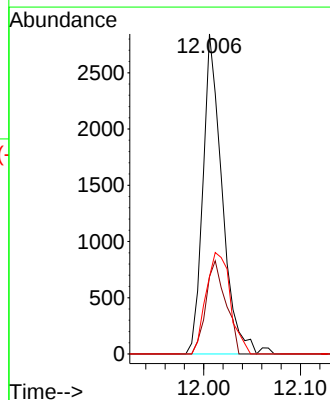
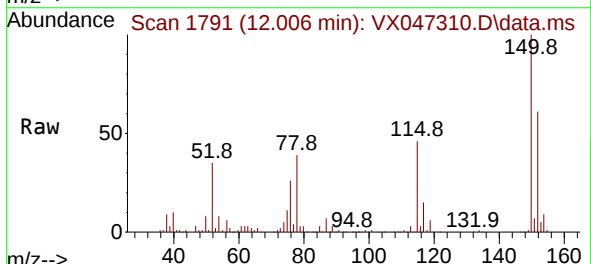
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0813MBL01

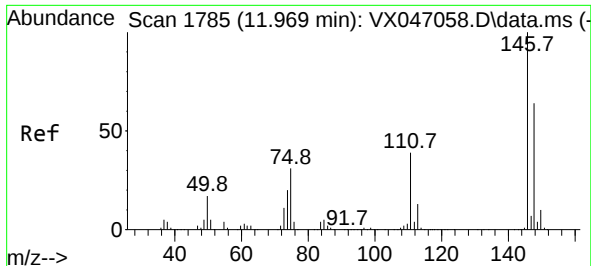
Tgt Ion:105 Resp: 4237
 Ion Ratio Lower Upper
 105 100
 134 23.4 9.9 29.7



#86
 p-Isopropyltoluene
 Concen: 0.279 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. 0.000 min
 Lab File: VX047310.D
 Acq: 13 Aug 2025 10:12

Tgt Ion:119 Resp: 3944
 Ion Ratio Lower Upper
 119 100
 134 30.1 12.8 38.4
 91 39.9 12.4 37.4#





#87

1,3-Dichlorobenzene

Concen: 0.251 ug/l

RT: 11.975 min Scan# 1786

Delta R.T. 0.006 min

Lab File: VX047310.D

Acq: 13 Aug 2025 10:12

Instrument :

MSVOA_X

ClientSampleId :

VX0813MBL01

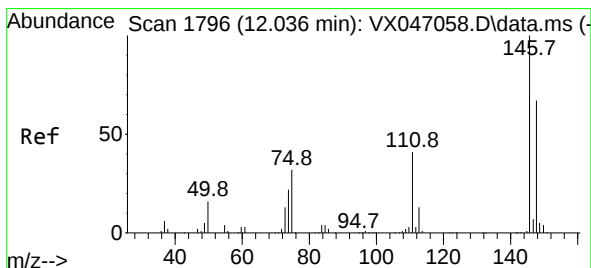
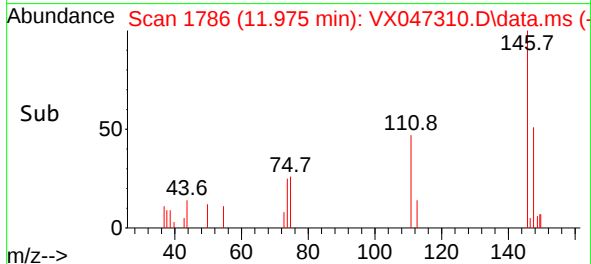
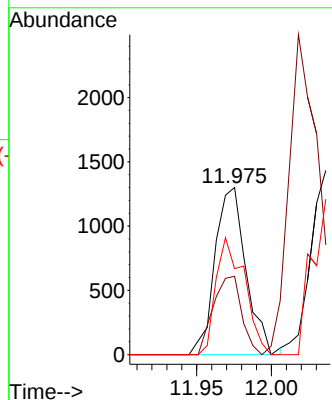
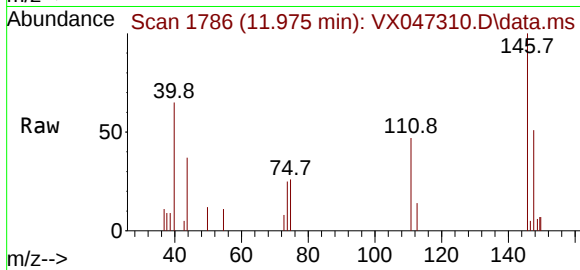
Tgt Ion:146 Resp: 1883

Ion Ratio Lower Upper

146 100

111 42.6 21.0 63.0

148 64.0 32.0 96.0



#88

1,4-Dichlorobenzene

Concen: 0.247 ug/l

RT: 11.975 min Scan# 1786

Delta R.T. -0.061 min

Lab File: VX047310.D

Acq: 13 Aug 2025 10:12

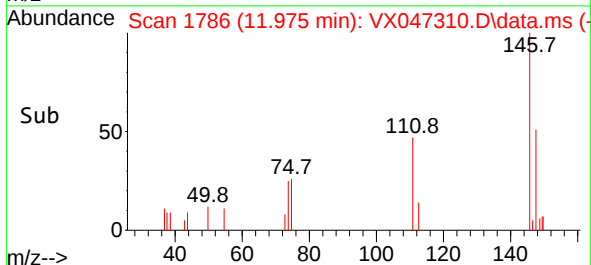
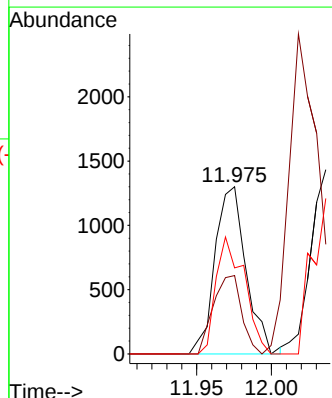
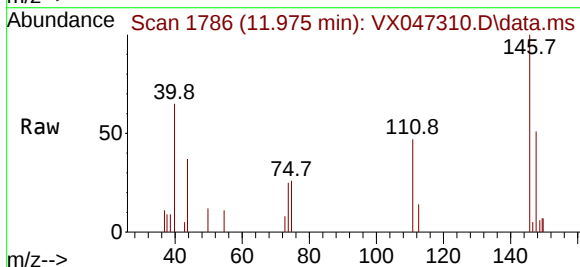
Tgt Ion:146 Resp: 1883

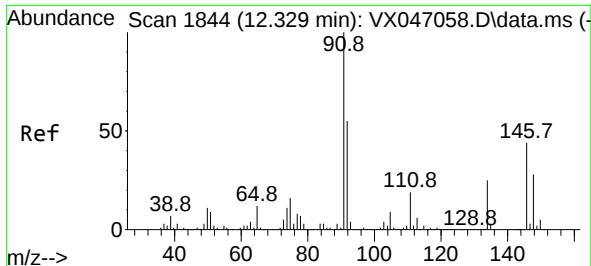
Ion Ratio Lower Upper

146 100

111 42.6 20.6 61.9

148 64.0 33.0 98.9





#89

n-Butylbenzene

Concen: 0.393 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX047310.D

Acq: 13 Aug 2025 10:12

Instrument :

MSVOA_X

ClientSampleId :

VX0813MBL01

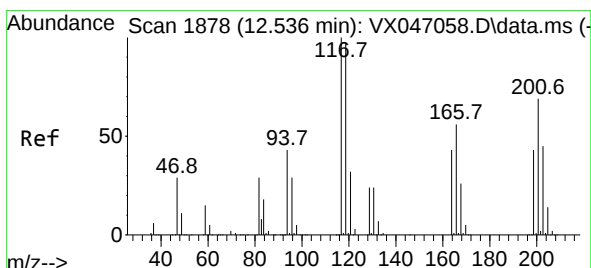
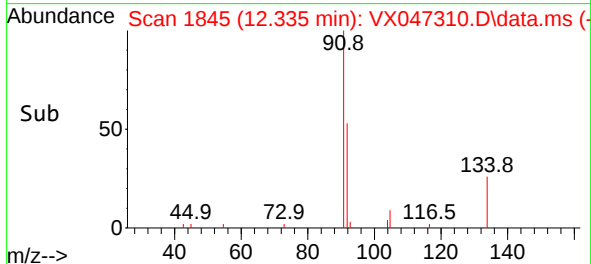
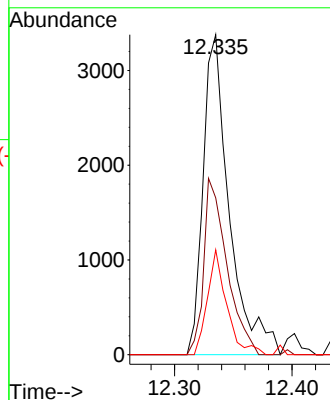
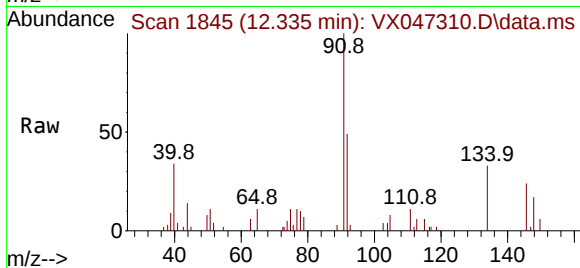
Tgt Ion: 91 Resp: 5220

Ion Ratio Lower Upper

91 100

92 48.9 27.5 82.5

134 24.3 12.8 38.3



#90

Hexachloroethane

Concen: 0.230 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX047310.D

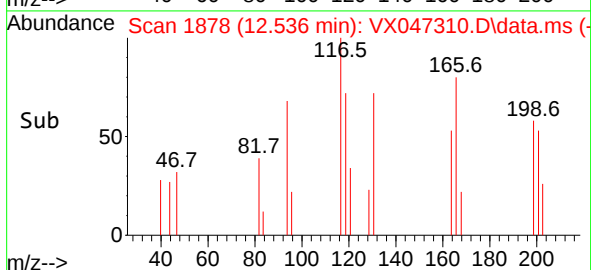
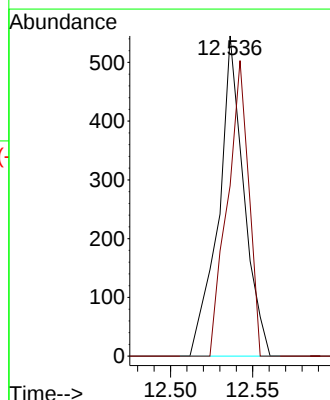
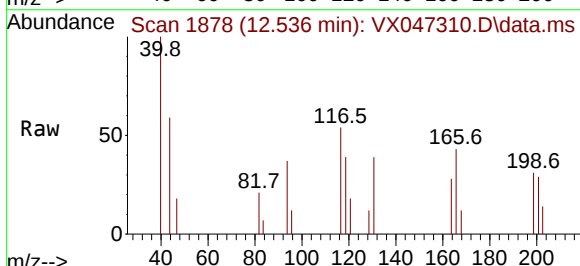
Acq: 13 Aug 2025 10:12

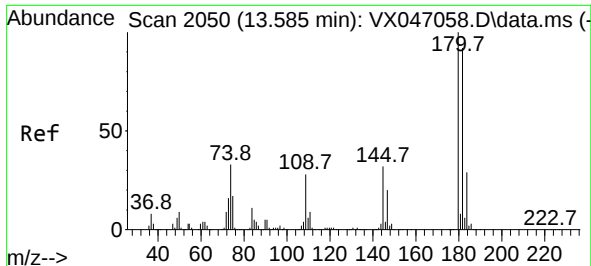
Tgt Ion: 117 Resp: 583

Ion Ratio Lower Upper

117 100

201 77.4 34.8 104.5

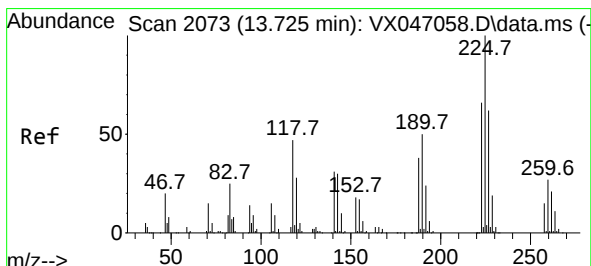
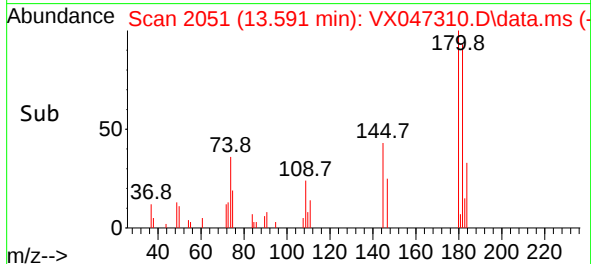
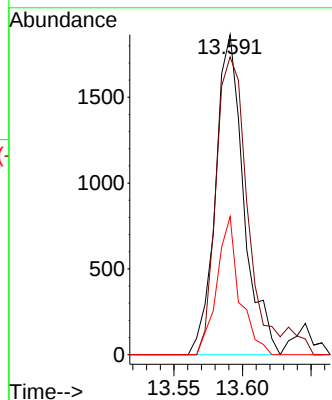
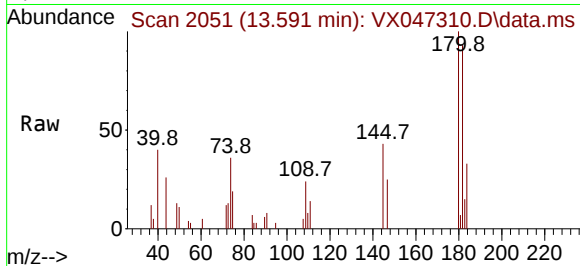




#93
1,2,4-Trichlorobenzene
Concen: 0.563 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

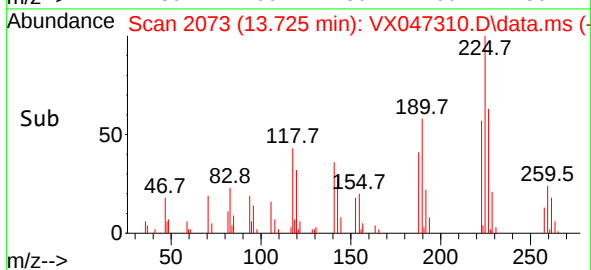
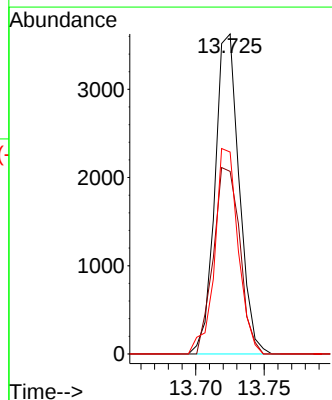
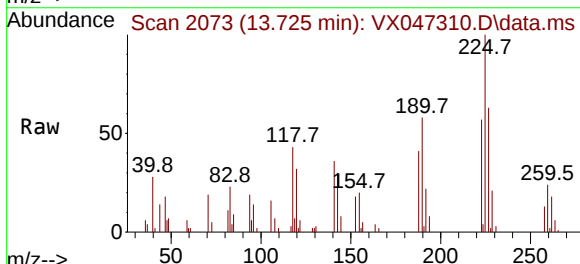
Instrument :
MSVOA_X
ClientSampleId :
VX0813MBL01

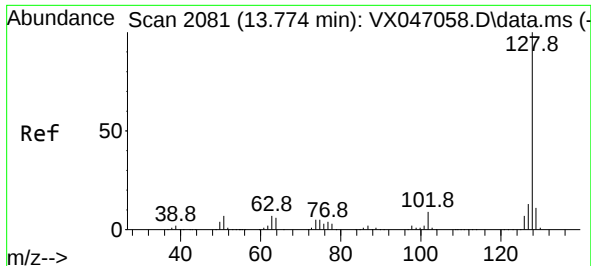
Tgt Ion:180 Resp: 2670
Ion Ratio Lower Upper
180 100
182 107.6 47.3 141.8
145 34.7 16.4 49.1



#94
Hexachlorobutadiene
Concen: 2.762 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

Tgt Ion:225 Resp: 4456
Ion Ratio Lower Upper
225 100
223 63.7 31.6 95.0
227 62.3 32.9 98.6

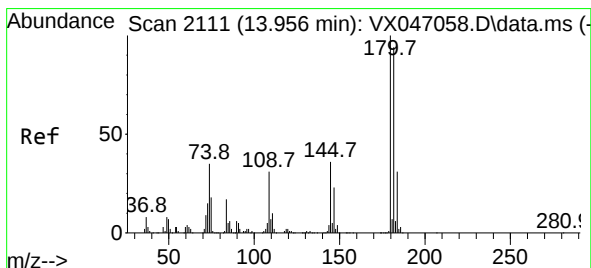
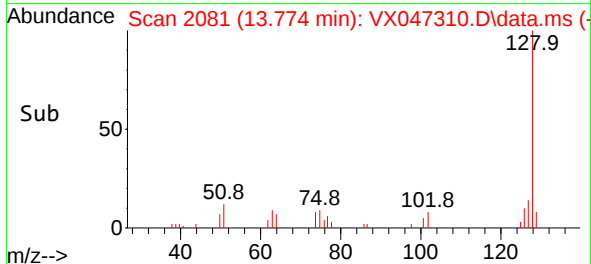
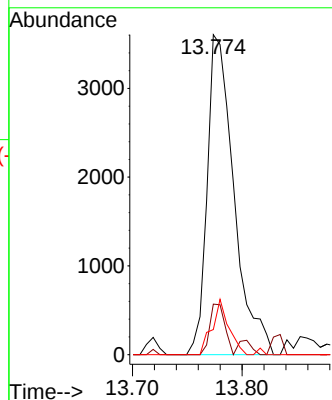
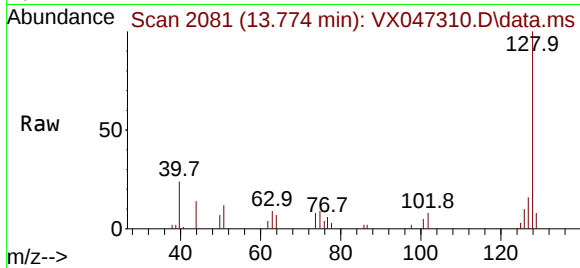




#95
Naphthalene
Concen: 0.440 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

Instrument :
MSVOA_X
ClientSampleId :
VX0813MBL01

Tgt Ion	128	127	129
Resp:	6121		
Ion Ratio	100	8.9	10.7
Lower		10.1	8.6
Upper		15.1#	13.0



#96
1,2,3-Trichlorobenzene
Concen: 0.685 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX047310.D
Acq: 13 Aug 2025 10:12

Tgt Ion	180	182	145
Resp:	3131		
Ion Ratio	100	83.8	34.1
Lower		46.9	17.3
Upper		140.6	52.0

