

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092925\
 Data File : VX047869.D
 Acq On : 29 Sep 2025 09:27
 Operator : JC/MD
 Sample : VX0929MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0929MBL01

Quant Time: Sep 30 01:14:30 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)

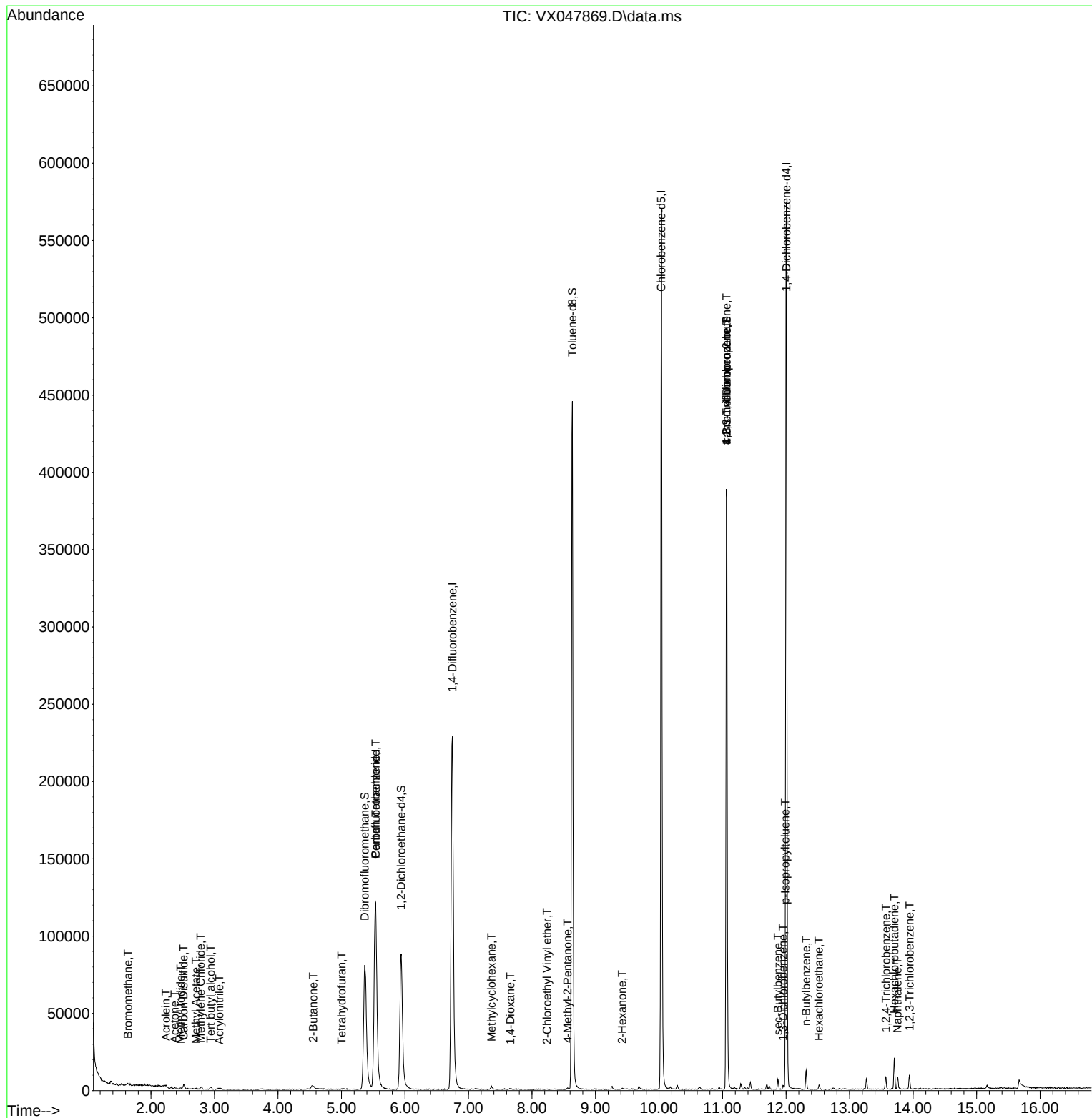
Internal Standards						
1) Pentafluorobenzene	5.538	168	124600	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	250800	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	252119	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122677	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	94113	47.452	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	94.900%		
35) Dibromofluoromethane	5.367	113	79711	47.391	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.780%		
50) Toluene-d8	8.635	98	274971	47.245	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	94.500%		
62) 4-Bromofluorobenzene	11.061	95	114241	51.720	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.440%		
Target Compounds						Qvalue
5) Bromomethane	1.636	94	689	0.655	ug/l #	69
10) Methyl Iodide	2.465	142	1391	0.619	ug/l #	68
11) Tert butyl alcohol	2.941	59	724	3.278	ug/l #	72
13) Acrolein	2.233	56	211	1.037	ug/l #	6
15) Acrylonitrile	3.075	53	630	0.770	ug/l #	70
16) Acetone	2.374	43	1197	1.388	ug/l #	79
17) Carbon Disulfide	2.514	76	2603	0.642	ug/l #	82
18) Methyl Acetate	2.709	43	501	0.261	ug/l #	78
20) Methylene Chloride	2.782	84	760	0.416	ug/l #	74
25) 2-Butanone	4.556	43	627	0.583	ug/l #	50
29) Tetrahydrofuran	5.001	42	487	0.753	ug/l #	41
38) Carbon Tetrachloride	5.538	117	13189	4.939	ug/l #	20
39) Methylcyclohexane	7.360	83	804	0.288	ug/l #	81
49) 1,4-Dioxane	7.659	88	436	20.068	ug/l #	85
51) 4-Methyl-2-Pentanone	8.561	43	699	0.292	ug/l #	72
58) 2-Chloroethyl Vinyl ether	8.238	63	22	7.909	ug/l #	47
59) 2-Hexanone	9.421	43	749	0.436	ug/l	80
76) 1,2,3-Trichloropropane	11.061	75	58868	23.701	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.061	75	58868	60.440	ug/l #	8
85) sec-Butylbenzene	11.872	105	3286	0.353	ug/l	94
86) p-Isopropyltoluene	11.988	119	2722	0.345	ug/l #	78
87) 1,3-Dichlorobenzene	11.951	146	861	0.202	ug/l	85
89) n-Butylbenzene	12.317	91	4464	0.612	ug/l	98
90) Hexachloroethane	12.518	117	577	0.417	ug/l	76
93) 1,2,4-Trichlorobenzene	13.573	180	2151	0.814	ug/l	97
94) Hexachlorobutadiene	13.707	225	2723	3.035	ug/l	97
95) Naphthalene	13.756	128	5250	0.653	ug/l	95
96) 1,2,3-Trichlorobenzene	13.945	180	2063	0.839	ug/l	92

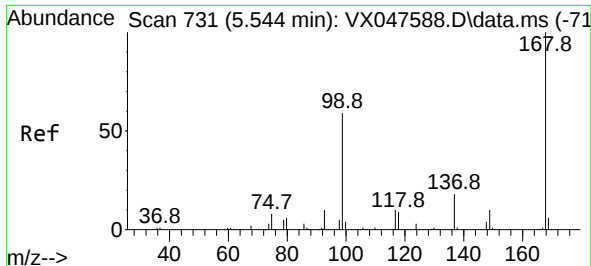
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092925\
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Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
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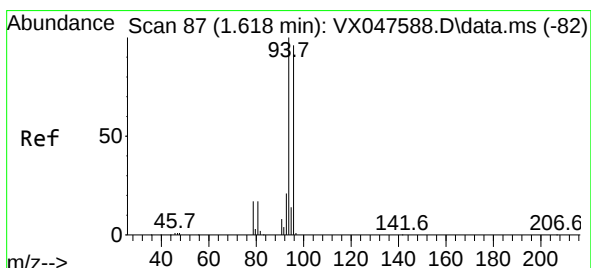
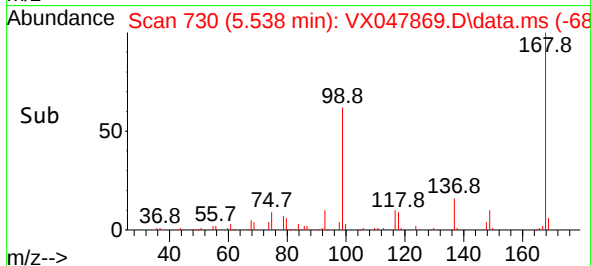
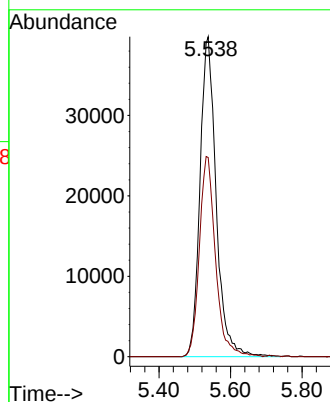
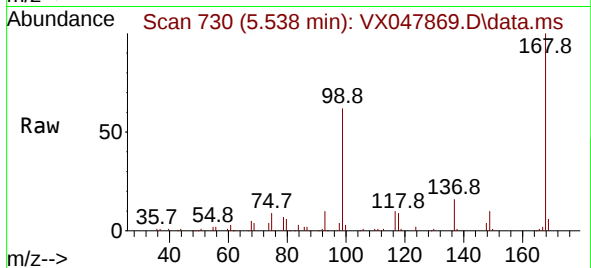




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

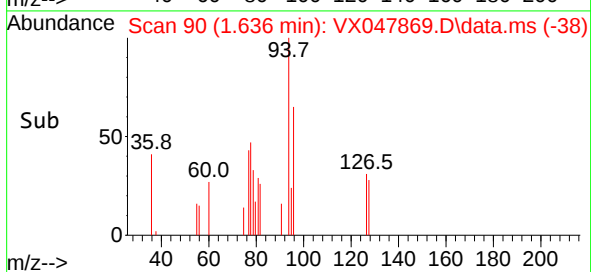
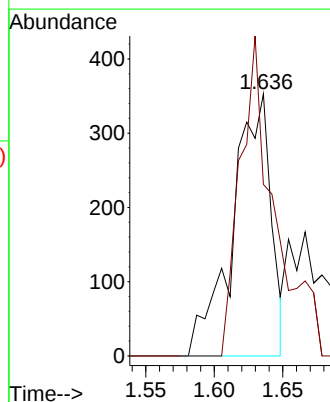
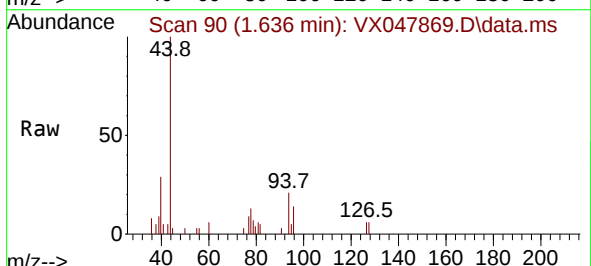
Instrument :
MSVOA_X
ClientSampleId :
VX0929MBL01

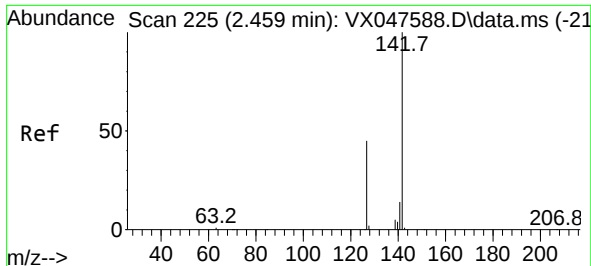
Tgt Ion:168 Resp: 124600
Ion Ratio Lower Upper
168 100
99 62.2 48.8 73.2



#5
Bromomethane
Concen: 0.655 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.018 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

Tgt Ion: 94 Resp: 689
Ion Ratio Lower Upper
94 100
96 65.4 76.6 115.0#

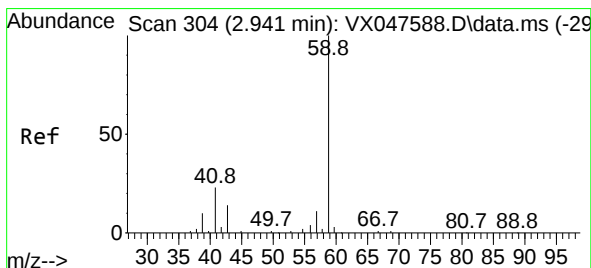
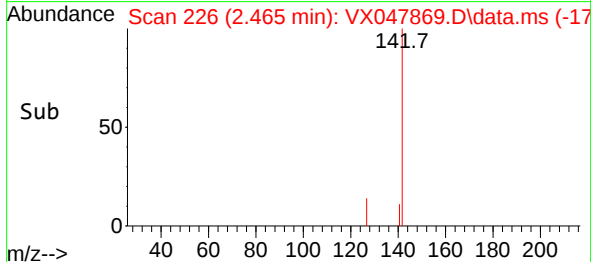
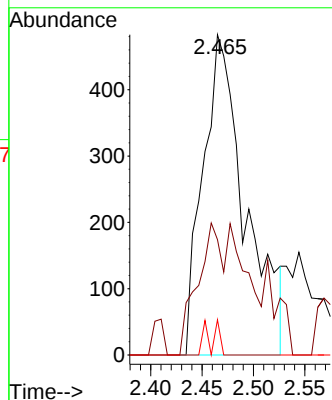
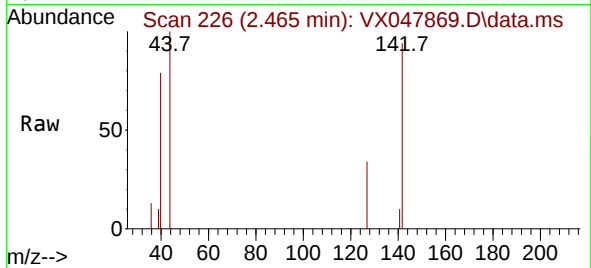




#10
Methyl Iodide
Concen: 0.619 ug/l
RT: 2.465 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

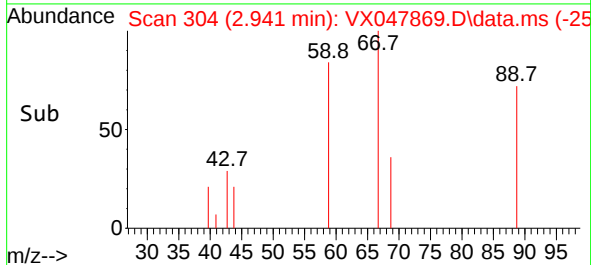
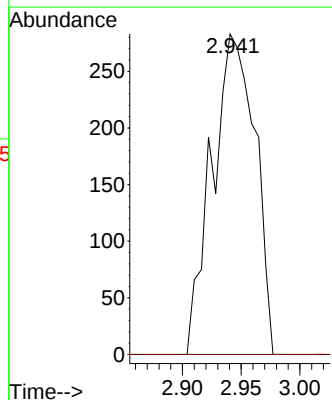
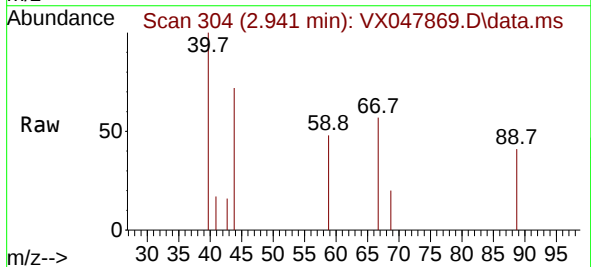
Instrument :
MSVOA_X
ClientSampleId :
VX0929MBL01

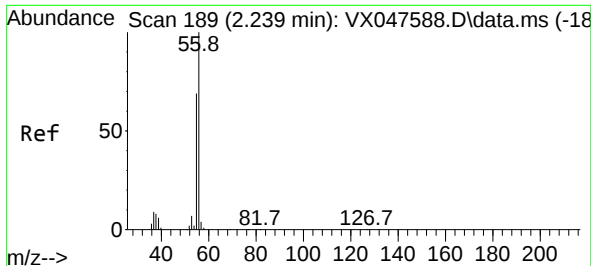
Tgt Ion:142 Resp: 1391
Ion Ratio Lower Upper
142 100
127 24.2 37.2 55.8#
141 2.7 11.4 17.0#



#11
Tert butyl alcohol
Concen: 3.278 ug/l
RT: 2.941 min Scan# 304
Delta R.T. -0.000 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

Tgt Ion: 59 Resp: 724
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

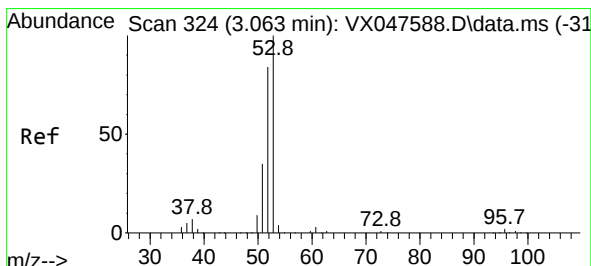
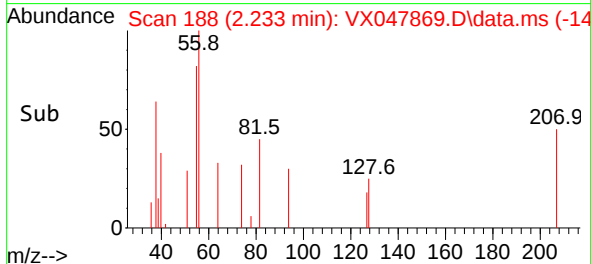
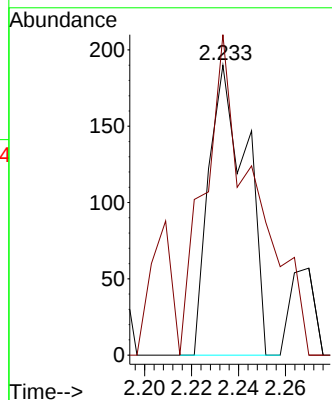
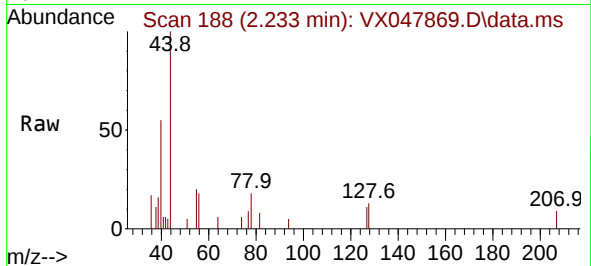




#13
Acrolein
Concen: 1.037 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

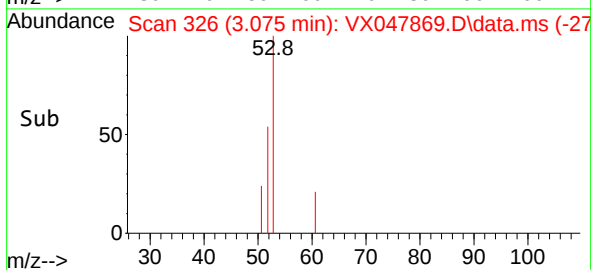
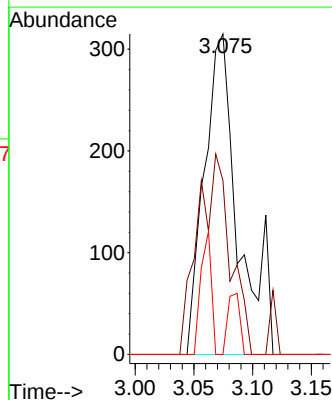
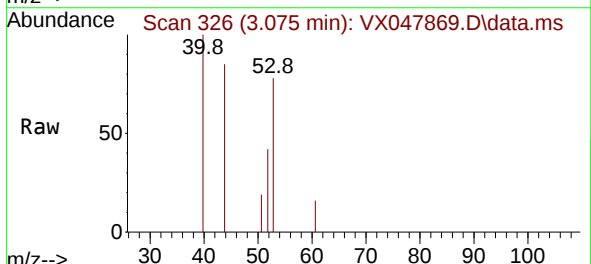
Instrument :
MSVOA_X
ClientSampleId :
VX0929MBL01

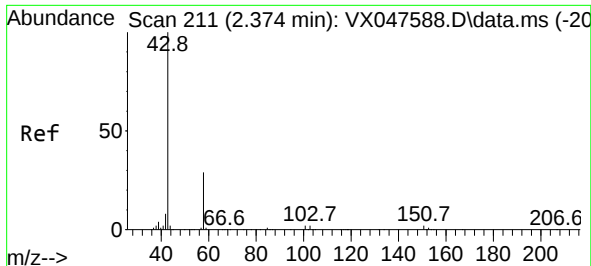
Tgt Ion: 56 Resp: 211
Ion Ratio Lower Upper
56 100
55 149.3 57.2 85.8#



#15
Acrylonitrile
Concen: 0.770 ug/l
RT: 3.075 min Scan# 326
Delta R.T. 0.012 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

Tgt Ion: 53 Resp: 630
Ion Ratio Lower Upper
53 100
52 60.3 66.4 99.6#
51 11.9 29.5 44.3#

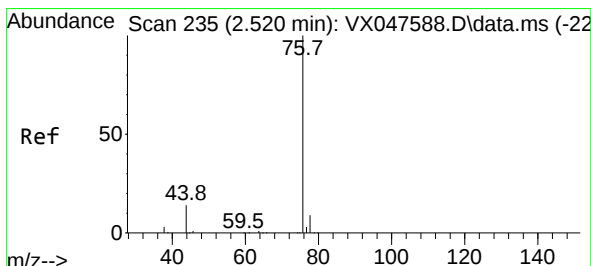
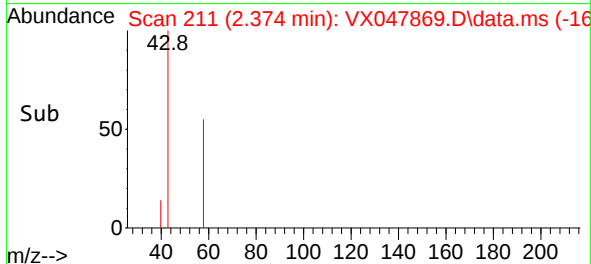
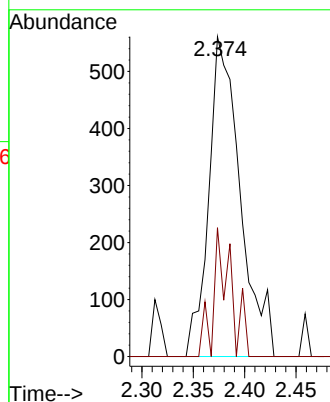
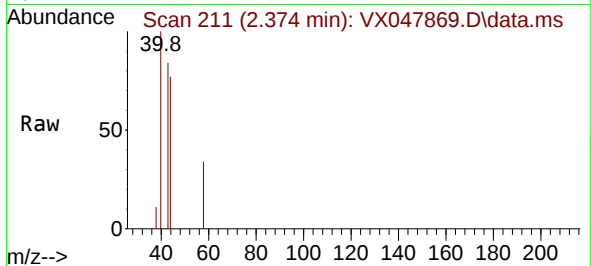




#16
Acetone
Concen: 1.388 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

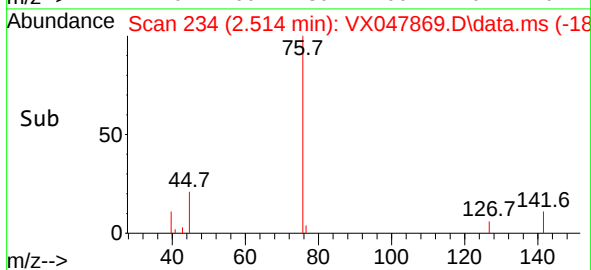
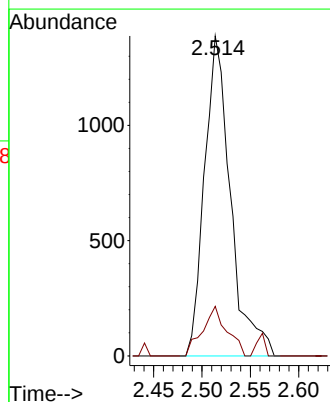
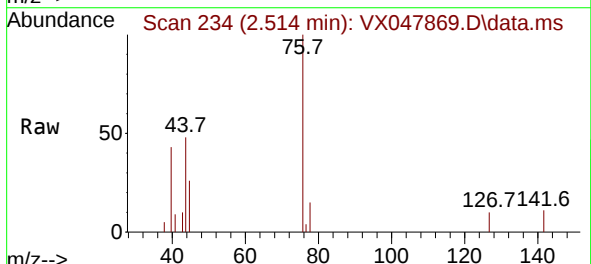
Instrument :
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ClientSampleId :
VX0929MBL01

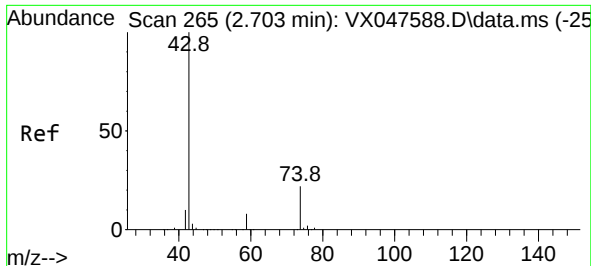
Tgt Ion: 43 Resp: 1197
Ion Ratio Lower Upper
43 100
58 40.3 23.4 35.0#



#17
Carbon Disulfide
Concen: 0.642 ug/l
RT: 2.514 min Scan# 234
Delta R.T. -0.006 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

Tgt Ion: 76 Resp: 2603
Ion Ratio Lower Upper
76 100
78 14.8 6.8 10.2#

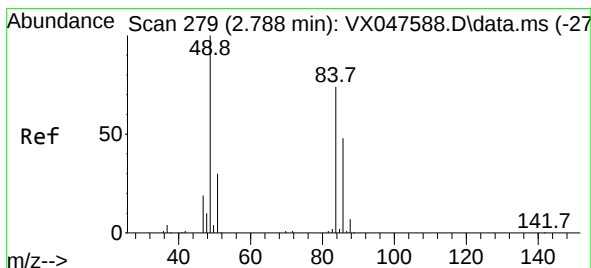
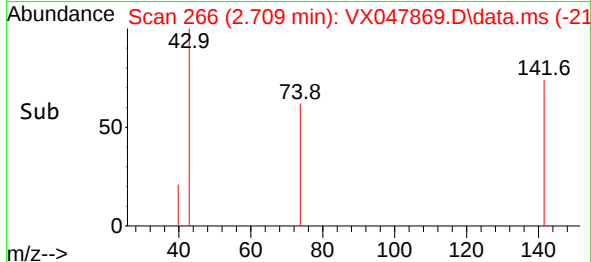
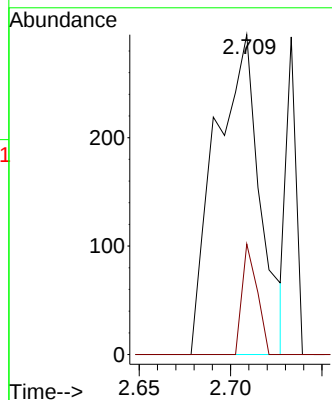
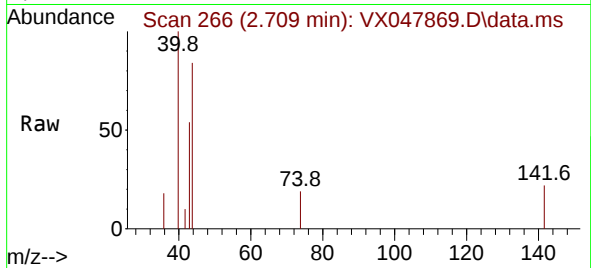




#18
Methyl Acetate
Concen: 0.261 ug/l
RT: 2.709 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

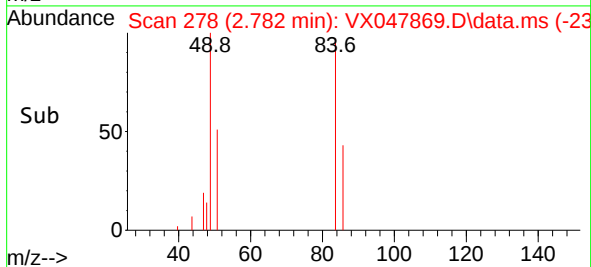
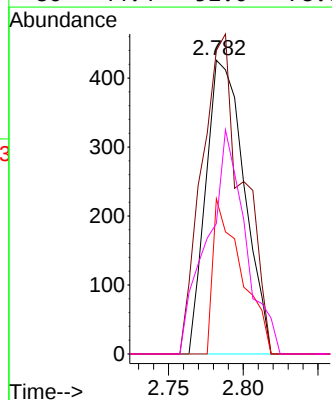
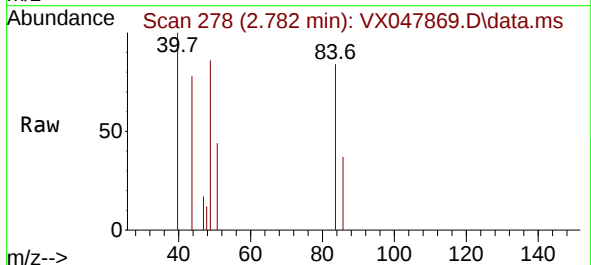
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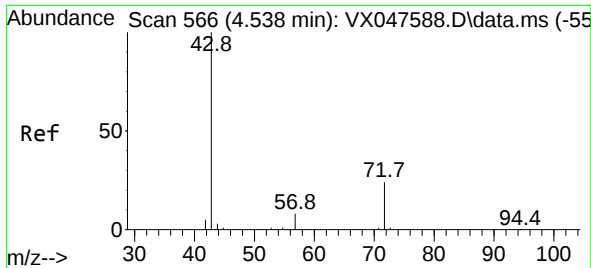
Tgt Ion: 43 Resp: 501
Ion Ratio Lower Upper
43 100
74 11.6 17.4 26.2#



#20
Methylene Chloride
Concen: 0.416 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

Tgt Ion: 84 Resp: 760
Ion Ratio Lower Upper
84 100
49 103.3 108.6 162.8#
51 52.8 32.6 48.8#
86 44.4 52.0 78.0#





#25

2-Butanone

Concen: 0.583 ug/l

RT: 4.556 min Scan# 5

Delta R.T. 0.018 min

Lab File: VX047869.D

Acq: 29 Sep 2025 09:27

Instrument :

MSVOA_X

ClientSampleId :

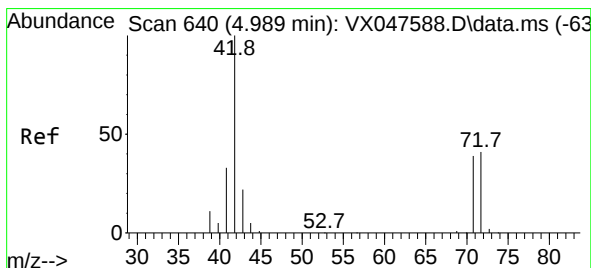
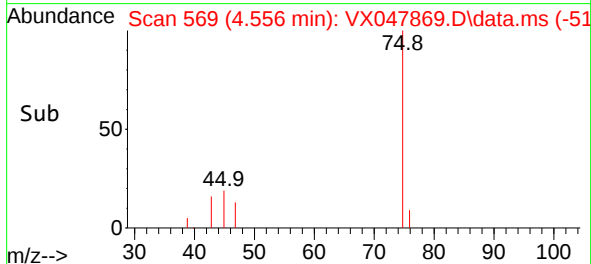
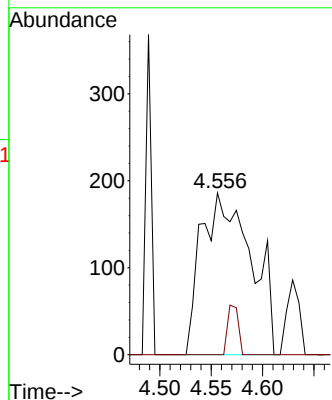
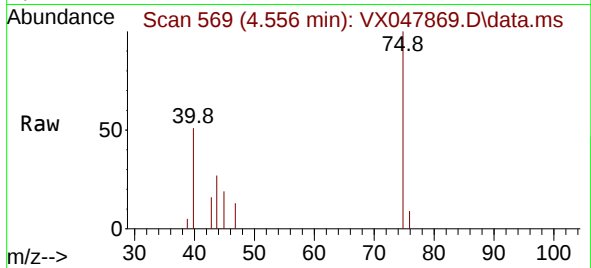
VX0929MBL01

Tgt Ion: 43 Resp: 627

Ion Ratio Lower Upper

43 100

72 0.0 20.1 30.1#



#29

Tetrahydrofuran

Concen: 0.753 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.012 min

Lab File: VX047869.D

Acq: 29 Sep 2025 09:27

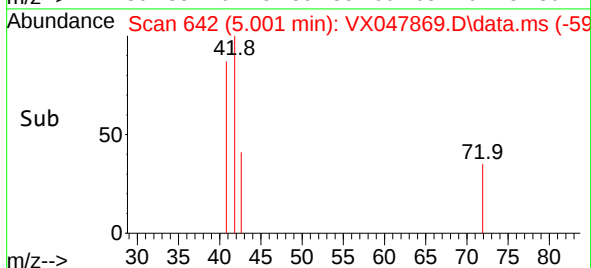
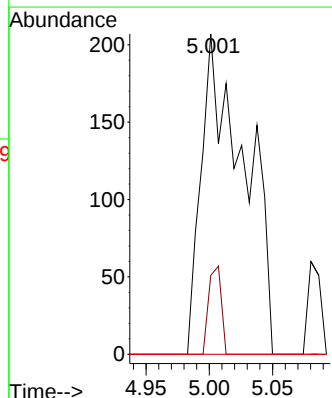
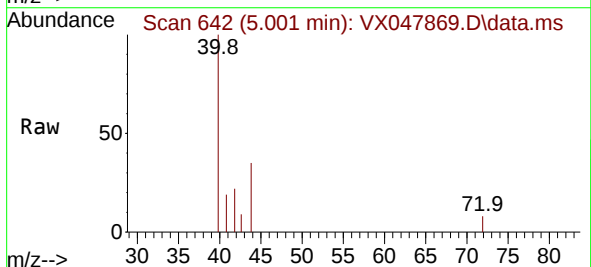
Tgt Ion: 42 Resp: 487

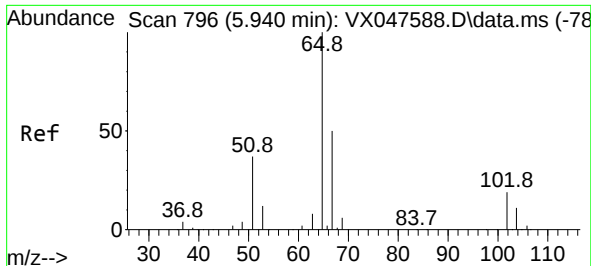
Ion Ratio Lower Upper

42 100

72 8.2 34.2 51.2#

71 0.0 31.9 47.9#





#33

1,2-Dichloroethane-d4

Concen: 47.452 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX047869.D

Acq: 29 Sep 2025 09:27

Instrument :

MSVOA_X

ClientSampleId :

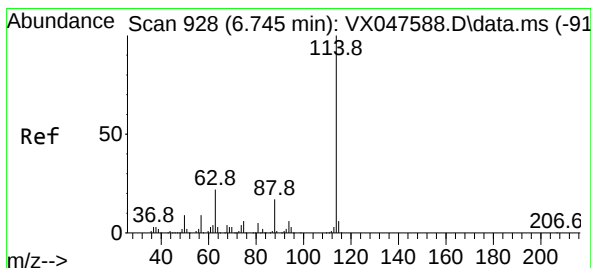
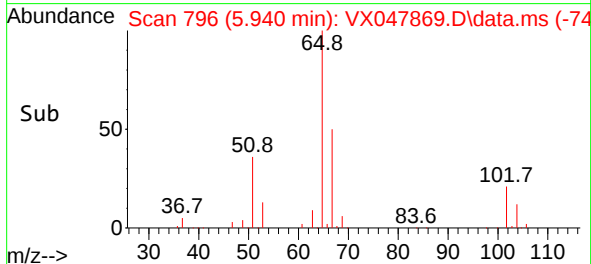
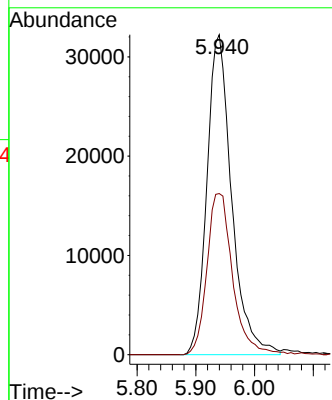
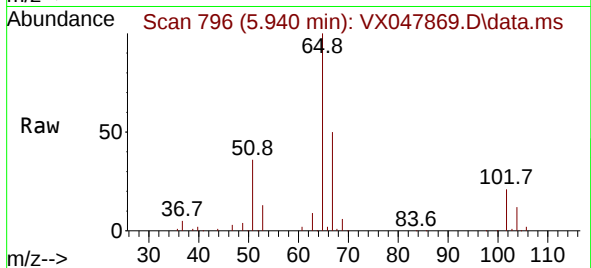
VX0929MBL01

Tgt Ion: 65 Resp: 94113

Ion Ratio Lower Upper

65 100

67 52.5 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX047869.D

Acq: 29 Sep 2025 09:27

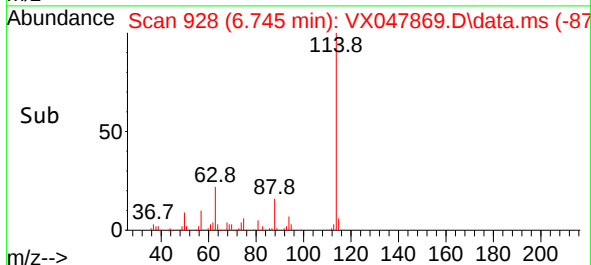
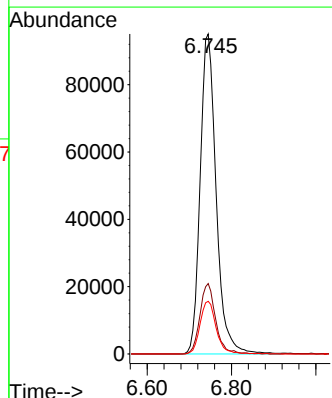
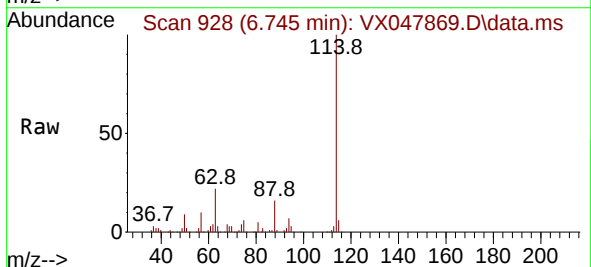
Tgt Ion: 114 Resp: 250800

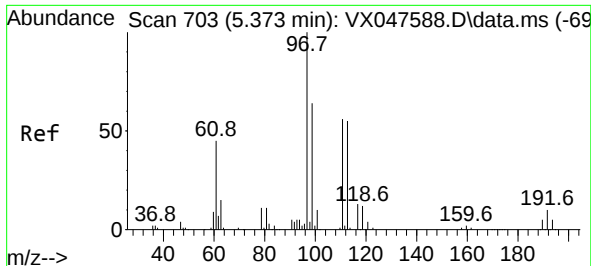
Ion Ratio Lower Upper

114 100

63 22.0 0.0 44.0

88 16.5 0.0 34.2

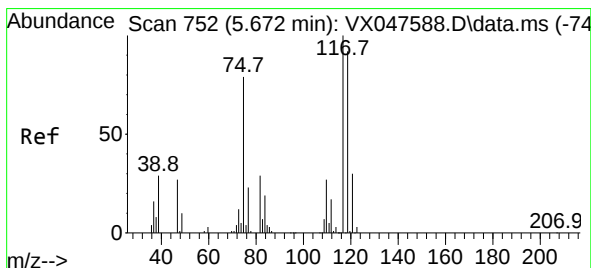
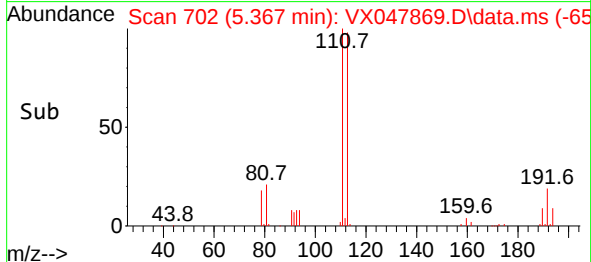
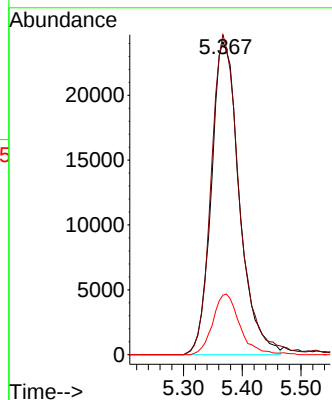
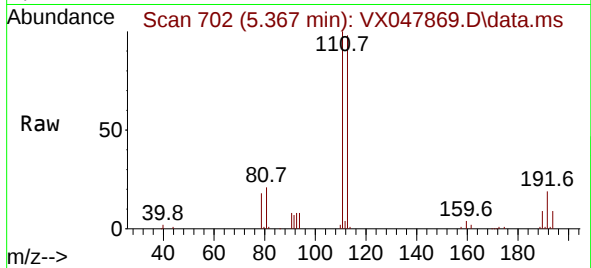




#35
Dibromofluoromethane
Concen: 47.391 ug/l
RT: 5.367 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

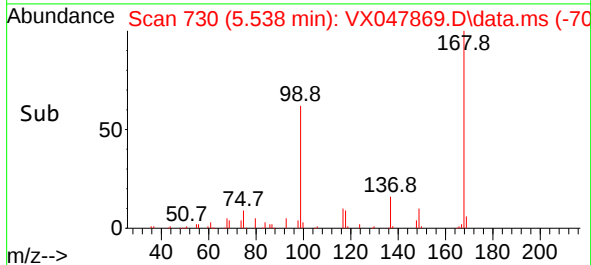
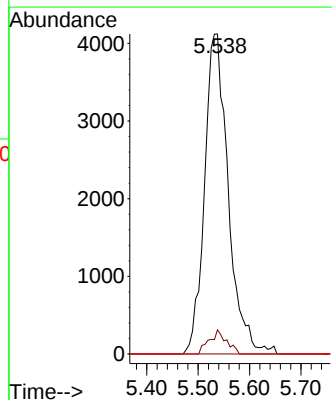
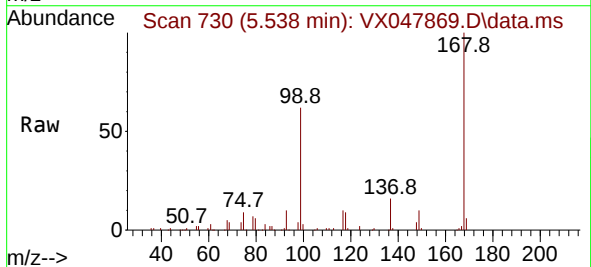
Instrument :
MSVOA_X
ClientSampleId :
VX0929MBL01

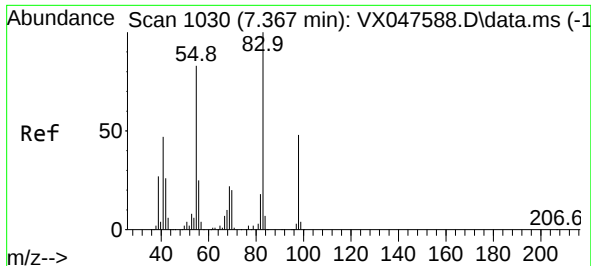
Tgt Ion:113 Resp: 79711
Ion Ratio Lower Upper
113 100
111 103.0 80.9 121.3
192 18.8 14.2 21.4



#38
Carbon Tetrachloride
Concen: 4.939 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.134 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

Tgt Ion:117 Resp: 13189
Ion Ratio Lower Upper
117 100
119 7.5 73.4 110.2#
121 0.0 23.8 35.6#





#39

Methylcyclohexane

Concen: 0.288 ug/l

RT: 7.360 min Scan# 1029

Delta R.T. -0.006 min

Lab File: VX047869.D

Acq: 29 Sep 2025 09:27

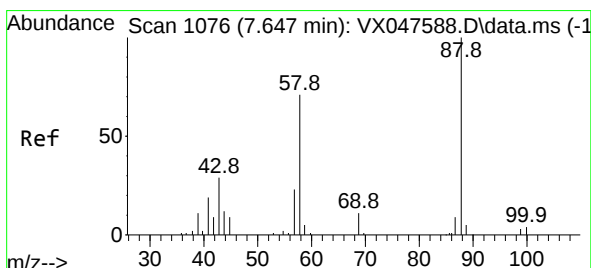
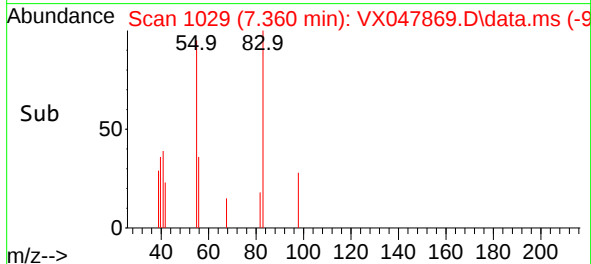
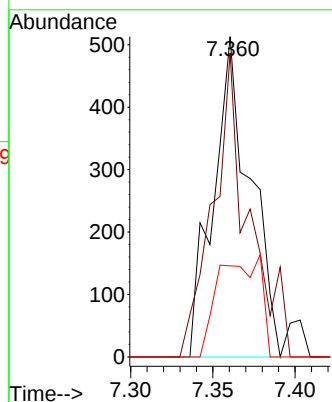
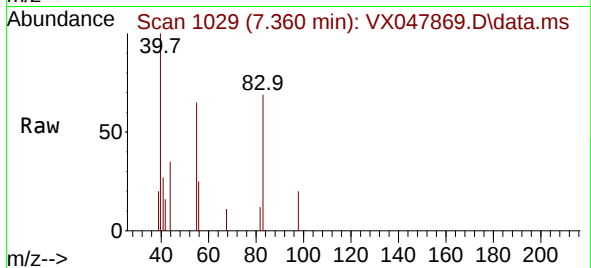
Instrument :

MSVOA_X

ClientSampleId :

VX0929MBL01

Tgt Ion:	83	Resp:	804
Ion	Ratio	Lower	Upper
83	100		
55	94.9	66.4	99.6
98	28.5	38.1	57.1#



#49

1,4-Dioxane

Concen: 20.068 ug/l

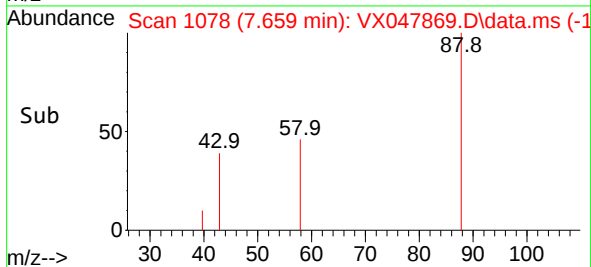
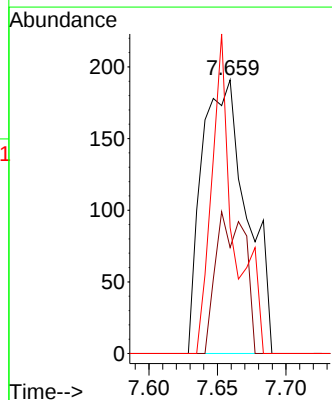
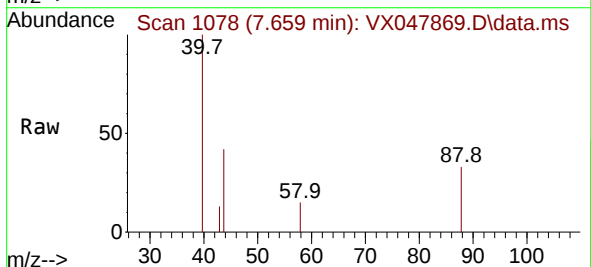
RT: 7.659 min Scan# 1078

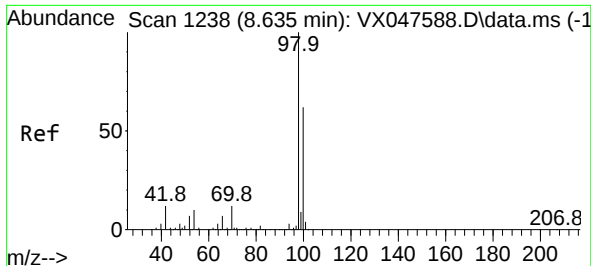
Delta R.T. 0.012 min

Lab File: VX047869.D

Acq: 29 Sep 2025 09:27

Tgt Ion:	88	Resp:	436
Ion	Ratio	Lower	Upper
88	100		
43	33.5	30.2	45.2
58	57.8	59.5	89.3#

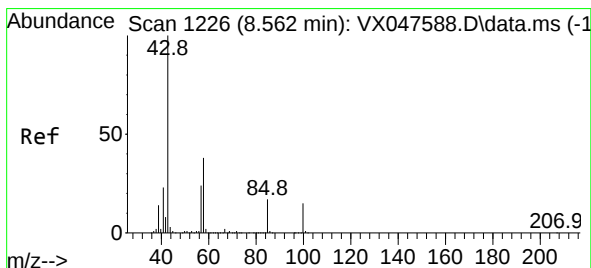
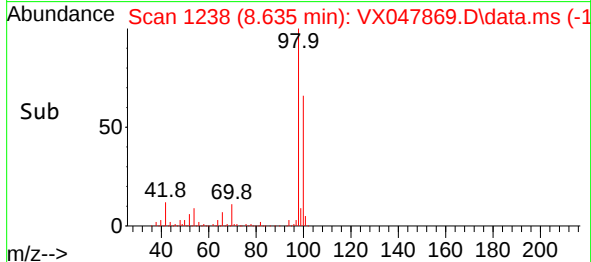
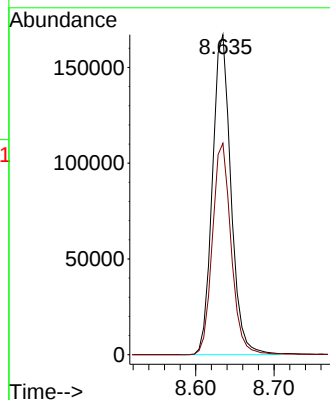
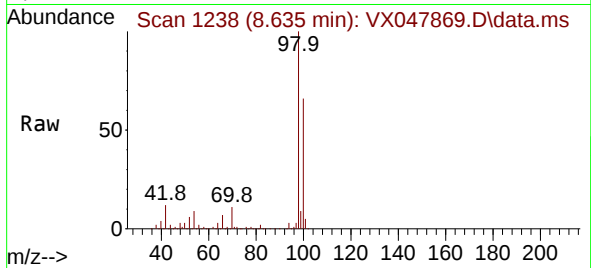




#50
Toluene-d8
Concen: 47.245 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

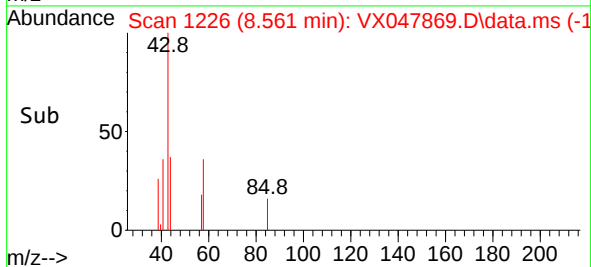
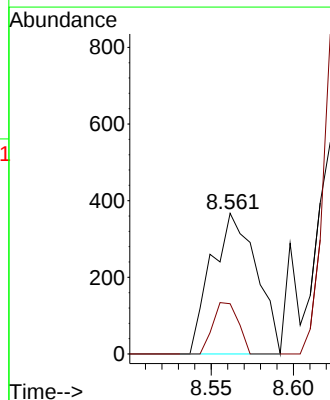
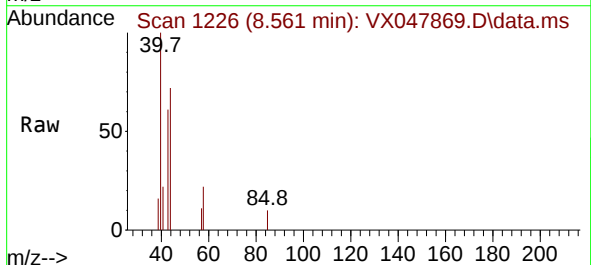
Instrument :
MSVOA_X
ClientSampleId :
VX0929MBL01

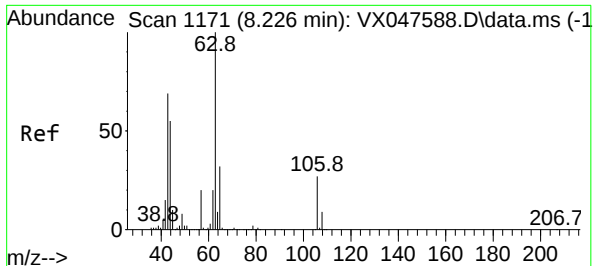
Tgt Ion: 98 Resp: 274971
Ion Ratio Lower Upper
98 100
100 66.9 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.292 ug/l
RT: 8.561 min Scan# 1226
Delta R.T. -0.000 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

Tgt Ion: 43 Resp: 699
Ion Ratio Lower Upper
43 100
58 20.7 30.3 45.5#

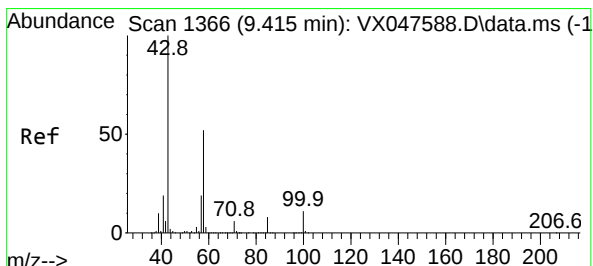
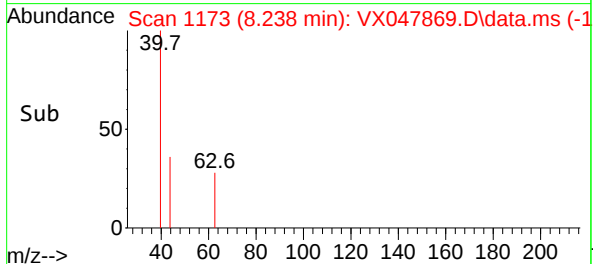
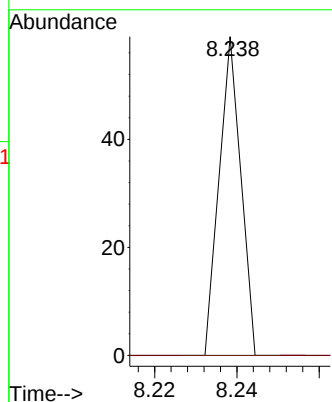
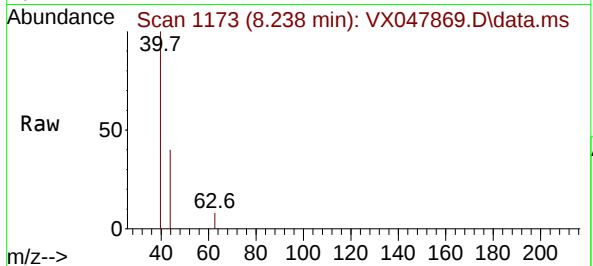




#58
2-Chloroethyl Vinyl ether
Concen: 7.909 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.012 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

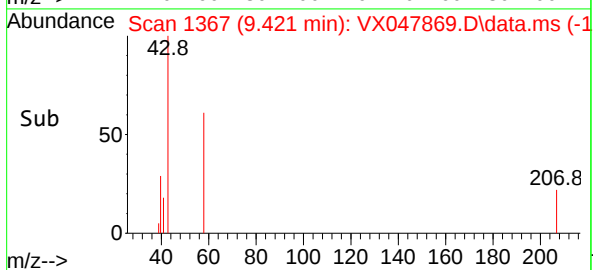
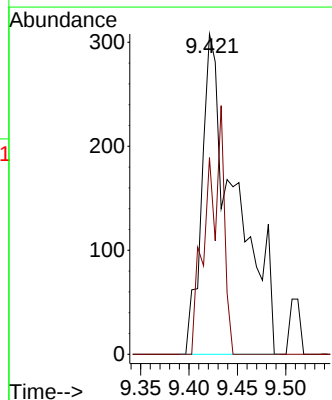
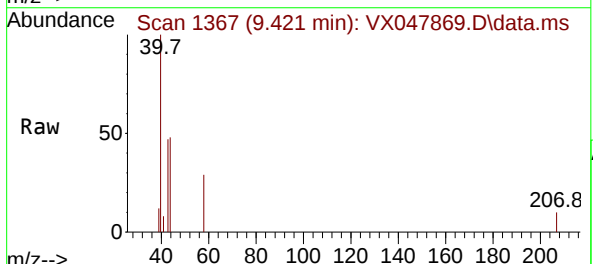
Instrument :
MSVOA_X
ClientSampleId :
VX0929MBL01

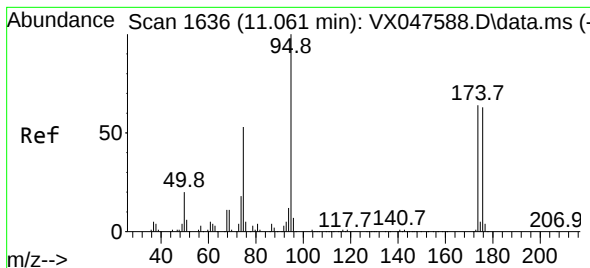
Tgt Ion: 63 Resp: 22
Ion Ratio Lower Upper
63 100
106 0.0 21.9 32.9#



#59
2-Hexanone
Concen: 0.436 ug/l
RT: 9.421 min Scan# 1367
Delta R.T. 0.006 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

Tgt Ion: 43 Resp: 749
Ion Ratio Lower Upper
43 100
58 38.3 26.1 78.2

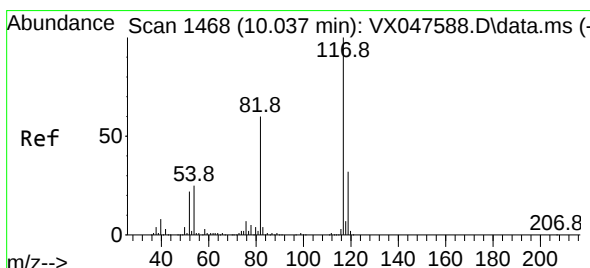
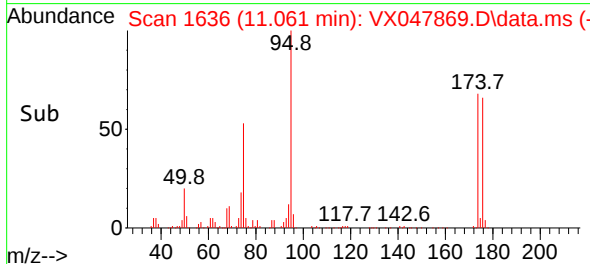
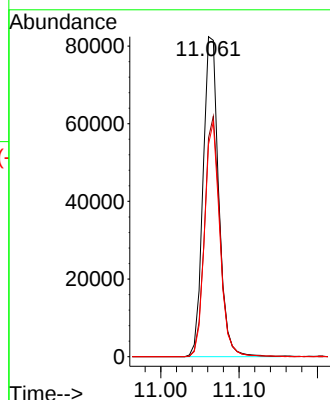
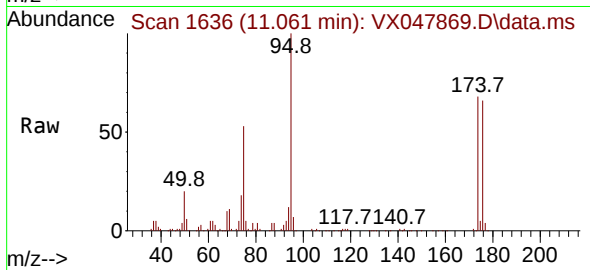




#62
4-Bromofluorobenzene
Concen: 51.720 ug/l
RT: 11.061 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

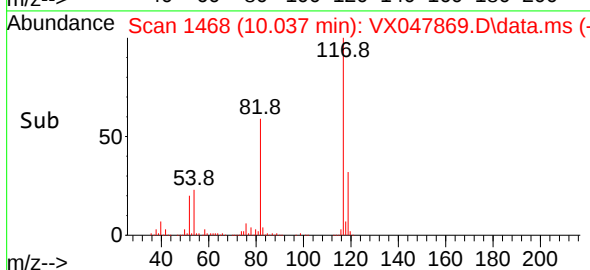
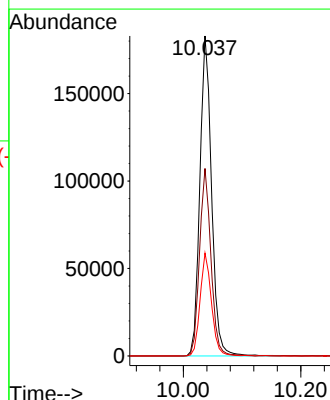
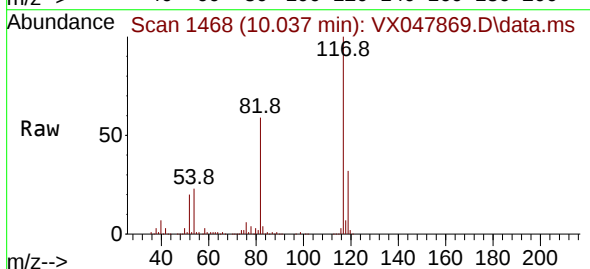
Instrument :
MSVOA_X
ClientSampleId :
VX0929MBL01

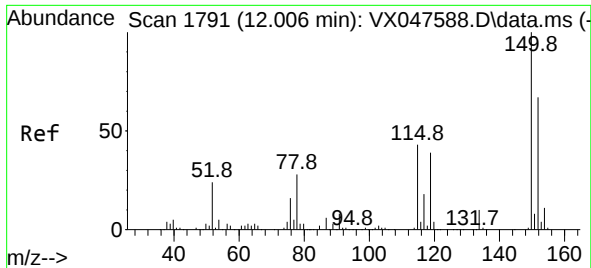
Tgt Ion: 95 Resp: 114241
Ion Ratio Lower Upper
95 100
174 74.0 0.0 141.6
176 71.4 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

Tgt Ion: 117 Resp: 252119
Ion Ratio Lower Upper
117 100
82 58.6 47.8 71.6
119 32.2 25.2 37.8

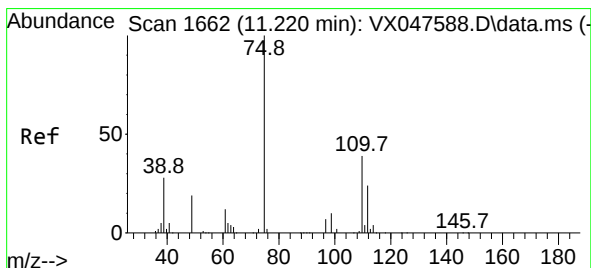
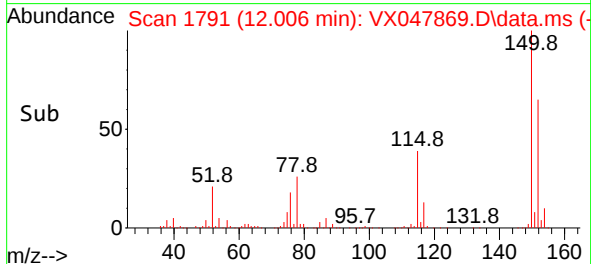
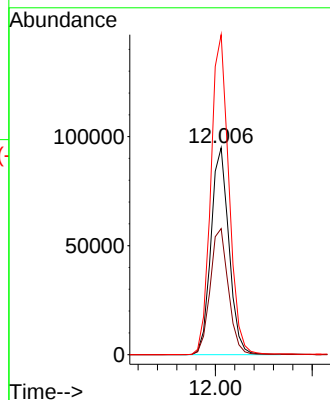
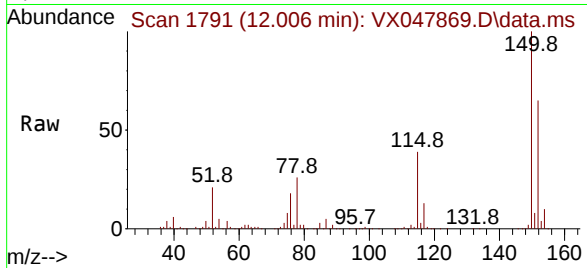




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

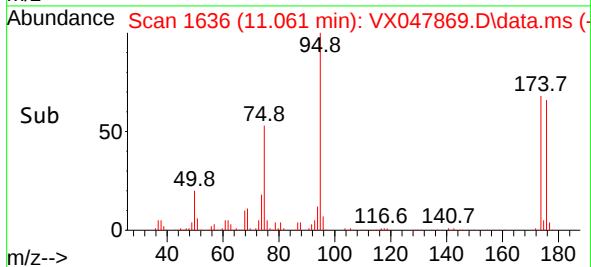
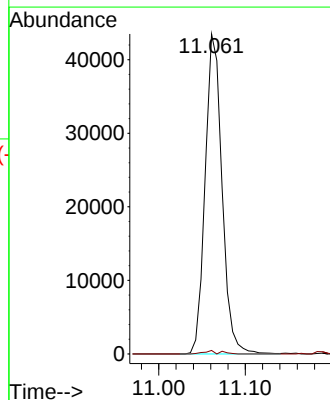
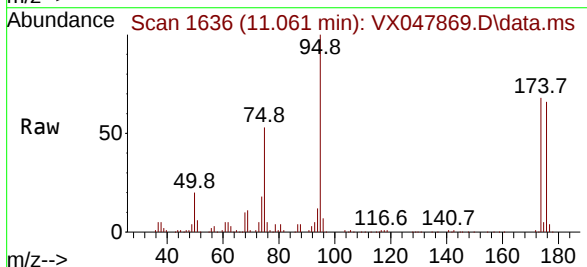
Instrument :
MSVOA_X
ClientSampleId :
VX0929MBL01

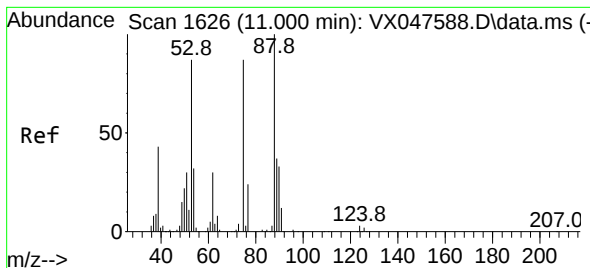
Tgt Ion:152 Resp: 122677
Ion Ratio Lower Upper
152 100
115 61.9 44.9 134.5
150 155.7 0.0 352.0



#76
1,2,3-Trichloropropane
Concen: 23.701 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

Tgt Ion: 75 Resp: 58868
Ion Ratio Lower Upper
75 100
77 0.6 18.8 56.4#

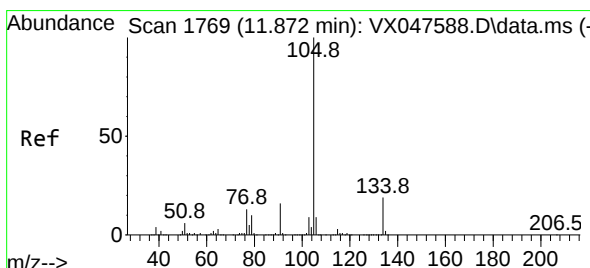
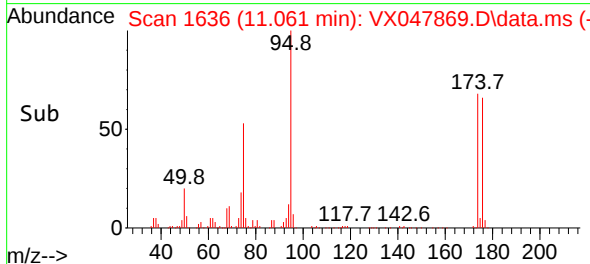
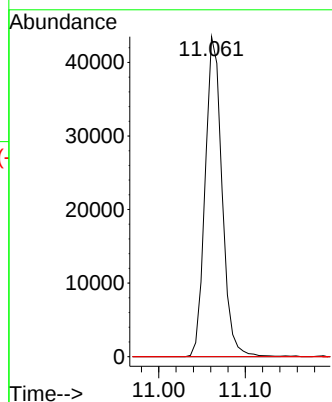
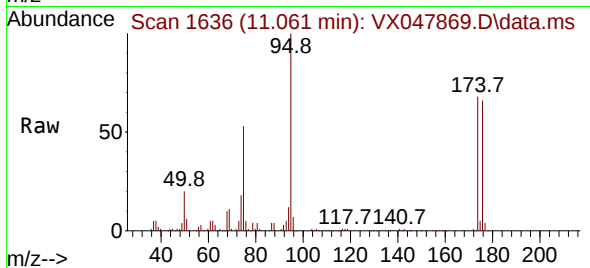




#81
trans-1,4-Dichloro-2-butene
Concen: 60.440 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

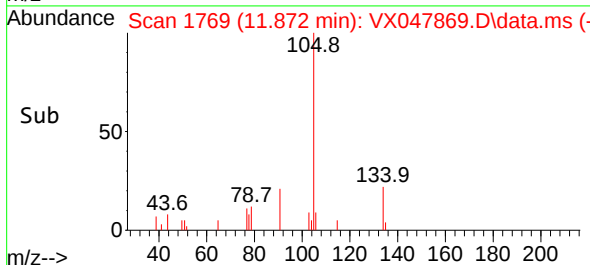
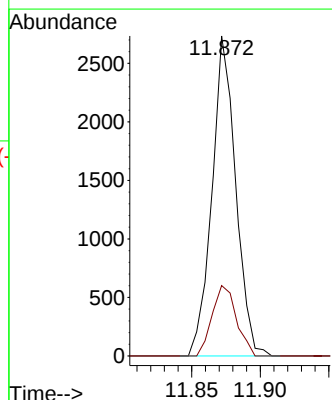
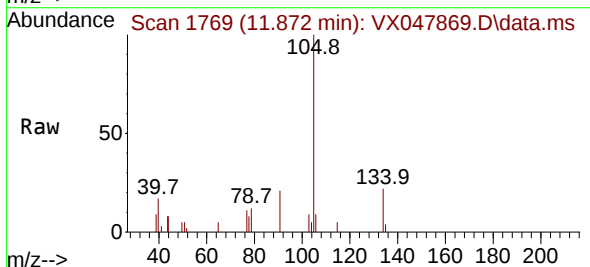
Instrument :
MSVOA_X
ClientSampleId :
VX0929MBL01

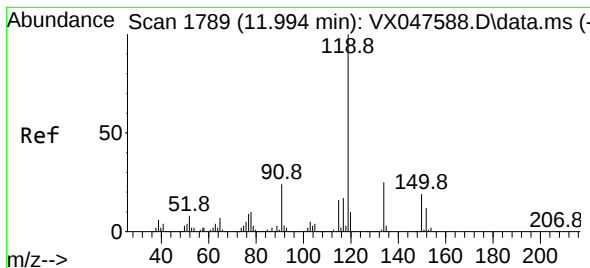
Tgt Ion: 75 Resp: 58868
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#85
sec-Butylbenzene
Concen: 0.353 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047869.D
Acq: 29 Sep 2025 09:27

Tgt Ion: 105 Resp: 3286
Ion Ratio Lower Upper
105 100
134 22.5 9.8 29.5





#86

p-Isopropyltoluene

Concen: 0.345 ug/l

RT: 11.988 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX047869.D

Acq: 29 Sep 2025 09:27

Instrument :

MSVOA_X

ClientSampleId :

VX0929MBL01

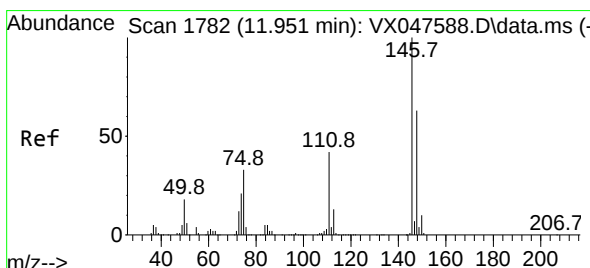
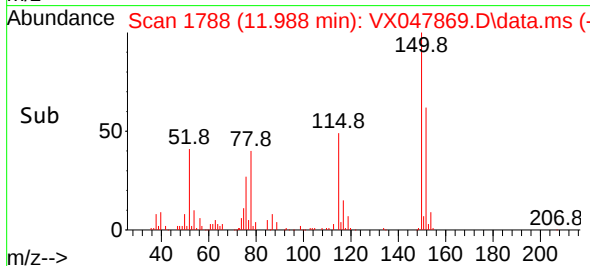
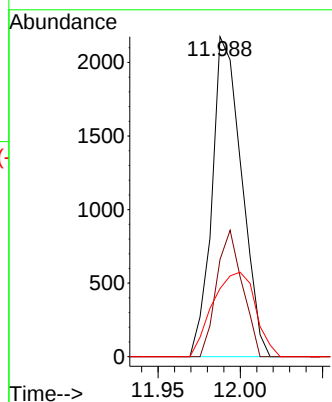
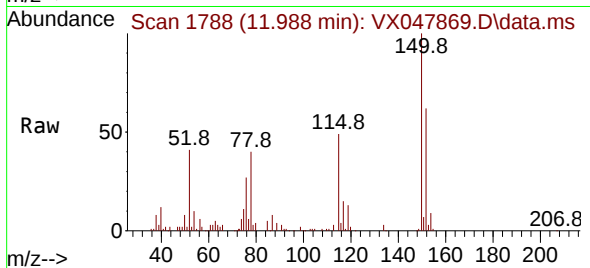
Tgt Ion:119 Resp: 2722

Ion Ratio Lower Upper

119 100

134 34.4 12.6 37.8

91 38.1 12.6 37.6#



#87

1,3-Dichlorobenzene

Concen: 0.202 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX047869.D

Acq: 29 Sep 2025 09:27

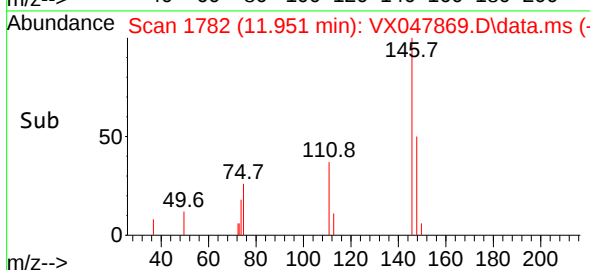
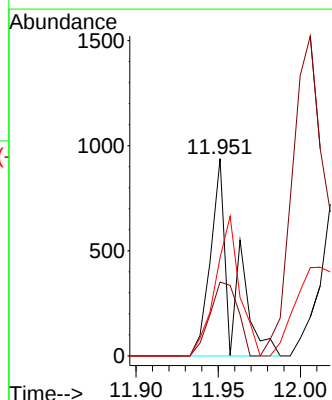
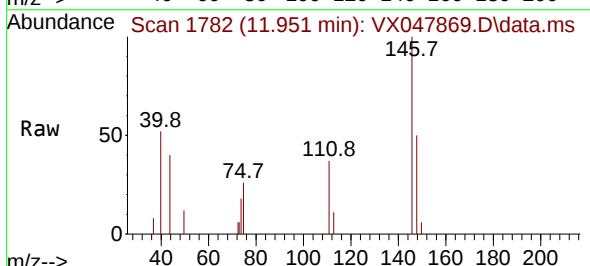
Tgt Ion:146 Resp: 861

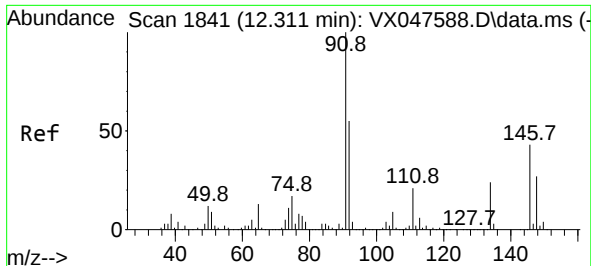
Ion Ratio Lower Upper

146 100

111 48.4 21.5 64.5

148 79.0 32.0 96.0





#89

n-Butylbenzene

Concen: 0.612 ug/l

RT: 12.317 min Scan# 1841

Delta R.T. 0.006 min

Lab File: VX047869.D

Acq: 29 Sep 2025 09:27

Instrument :

MSVOA_X

ClientSampleId :

VX0929MBL01

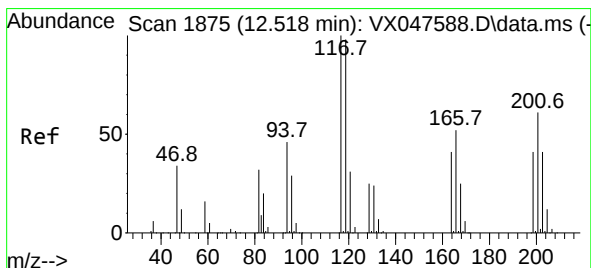
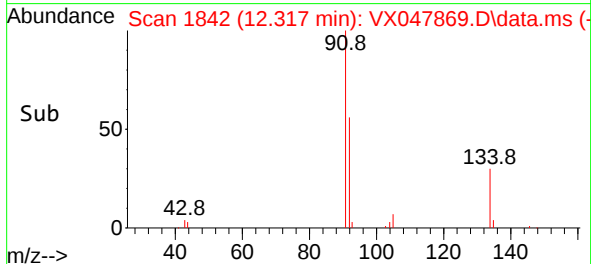
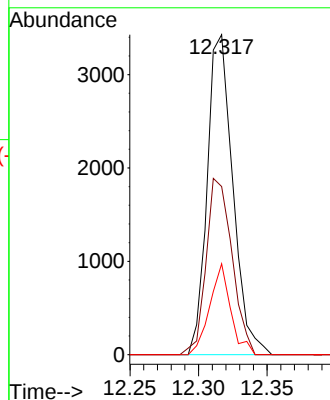
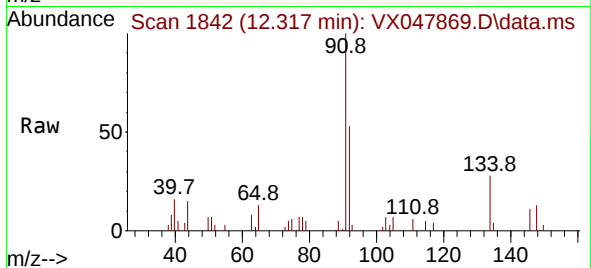
Tgt Ion: 91 Resp: 4464

Ion Ratio Lower Upper

91 100

92 55.5 27.6 82.7

134 23.2 12.6 37.8



#90

Hexachloroethane

Concen: 0.417 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX047869.D

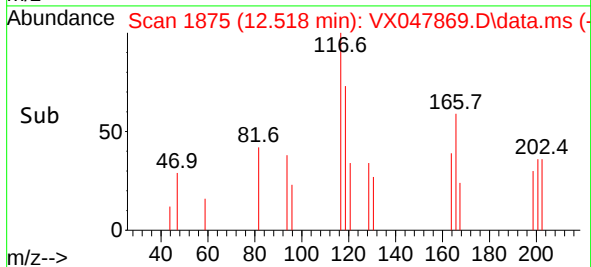
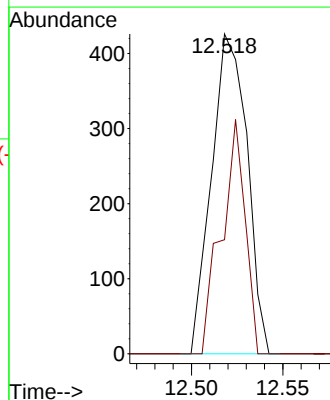
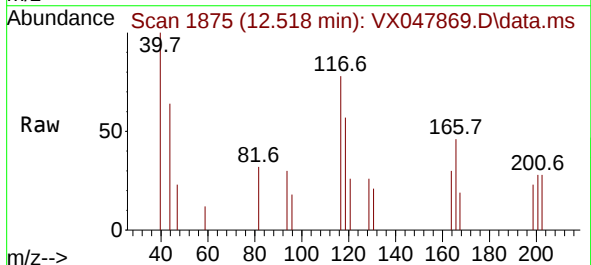
Acq: 29 Sep 2025 09:27

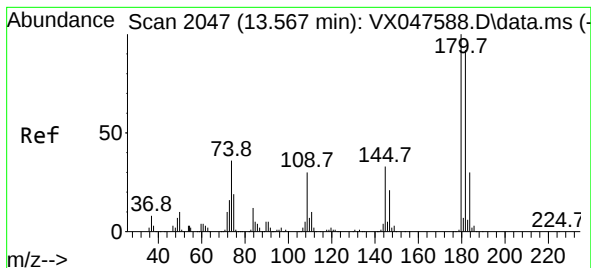
Tgt Ion: 117 Resp: 577

Ion Ratio Lower Upper

117 100

201 48.9 34.2 102.5





#93

1,2,4-Trichlorobenzene

Concen: 0.814 ug/l

RT: 13.573 min Scan# 2047

Delta R.T. 0.006 min

Lab File: VX047869.D

Acq: 29 Sep 2025 09:27

Instrument :

MSVOA_X

ClientSampleId :

VX0929MBL01

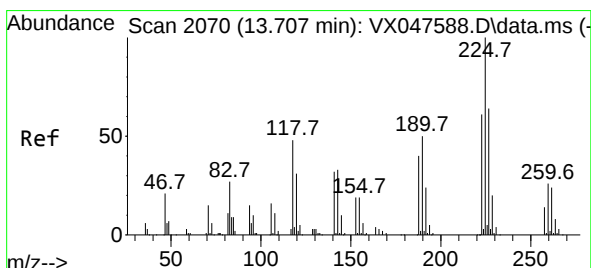
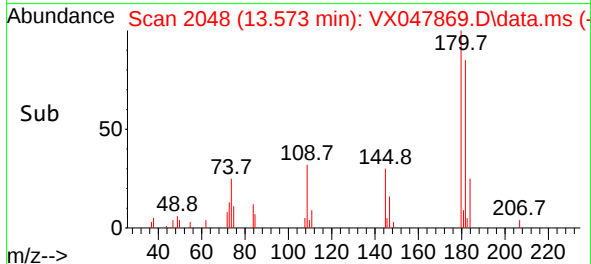
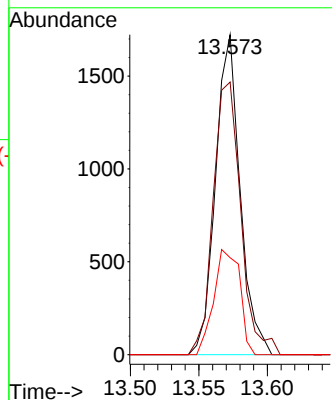
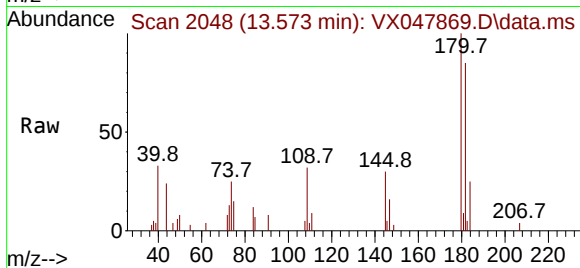
Tgt Ion:180 Resp: 2151

Ion Ratio Lower Upper

180 100

182 95.4 46.6 139.8

145 34.6 16.4 49.1



#94

Hexachlorobutadiene

Concen: 3.035 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VX047869.D

Acq: 29 Sep 2025 09:27

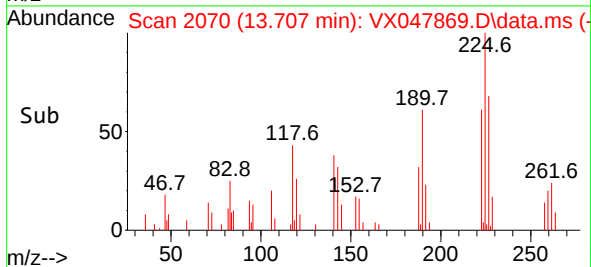
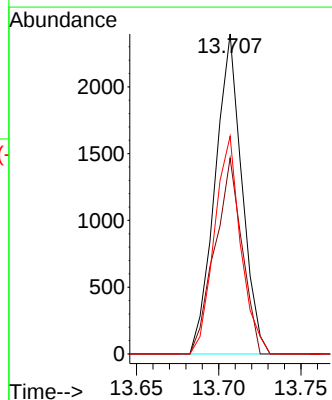
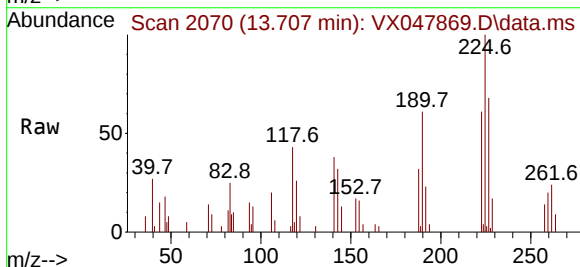
Tgt Ion:225 Resp: 2723

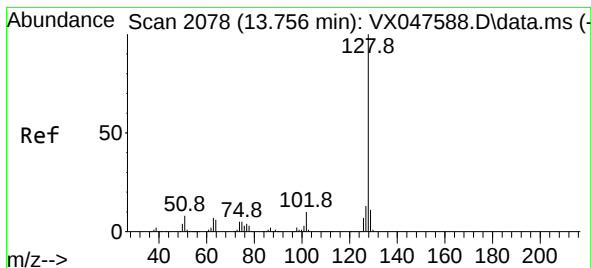
Ion Ratio Lower Upper

225 100

223 61.7 31.7 95.1

227 66.7 32.0 96.0





#95

Naphthalene

Concen: 0.653 ug/l

RT: 13.756 min Scan# 2109

Delta R.T. -0.000 min

Lab File: VX047869.D

Acq: 29 Sep 2025 09:27

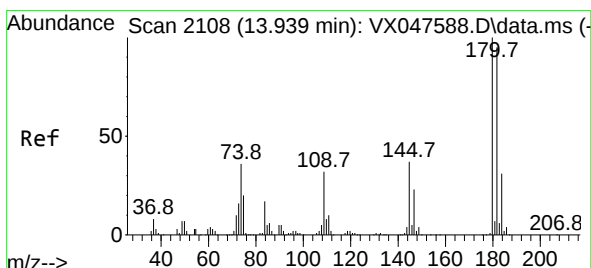
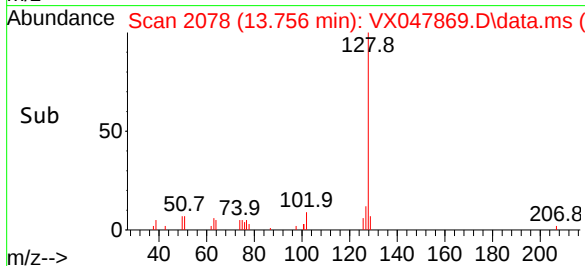
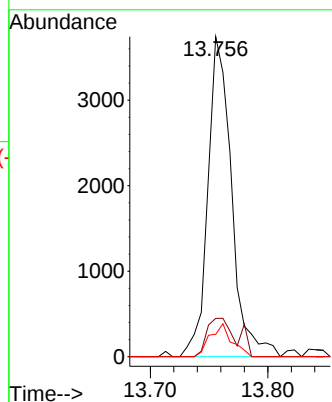
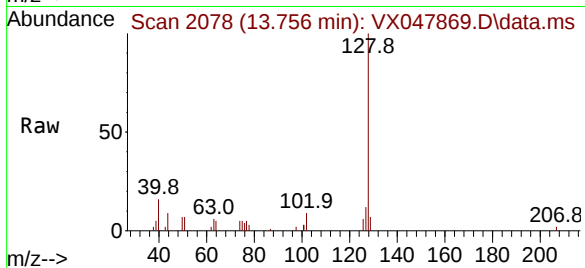
Instrument :

MSVOA_X

ClientSampleId :

VX0929MBL01

Tgt Ion:	128	Resp:	5250
Ion	Ratio	Lower	Upper
128	100		
127	14.9	10.2	15.2
129	9.4	8.8	13.2



#96

1,2,3-Trichlorobenzene

Concen: 0.839 ug/l

RT: 13.945 min Scan# 2109

Delta R.T. 0.006 min

Lab File: VX047869.D

Acq: 29 Sep 2025 09:27

Tgt Ion:	180	Resp:	2063
Ion	Ratio	Lower	Upper
180	100		
182	105.8	47.6	142.8
145	35.9	17.9	53.7

