

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046652.D
 Acq On : 11 Jun 2025 20:48
 Operator : JC/MD
 Sample : Q2280-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RT-4643

Quant Time: Jun 12 02:42:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	124568	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	241991	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	248938	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	135454	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	100614	45.399	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	90.800%
35) Dibromofluoromethane	5.397	113	86155	48.413	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.820%
50) Toluene-d8	8.653	98	263900	44.980	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	89.960%
62) 4-Bromofluorobenzene	11.079	95	134061	55.226	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	110.460%

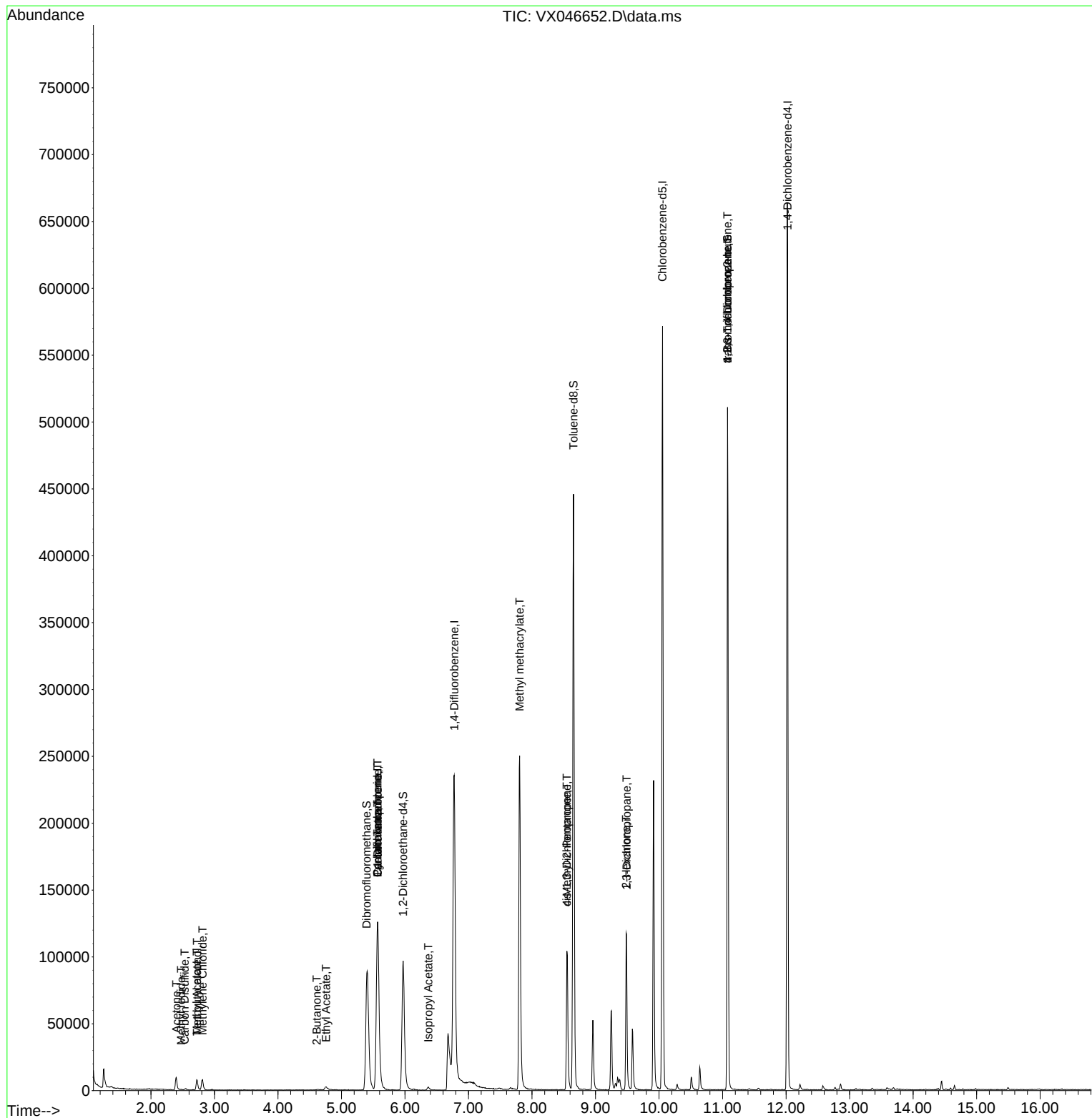
Target Compounds				Qvalue		
10) Methyl Iodide	2.477	142	379	0.214	ug/l #	50
11) Tert butyl alcohol	2.727	59	909	3.696	ug/l #	72
16) Acetone	2.398	43	11787	17.890	ug/l #	88
17) Carbon Disulfide	2.532	76	343	0.311	ug/l #	76
18) Methyl Acetate	2.721	43	10262	3.887	ug/l	97
20) Methylene Chloride	2.812	84	4006	2.253	ug/l #	84
25) 2-Butanone	4.611	43	563	0.456	ug/l #	86
31) Cyclohexane	5.568	56	2845	1.104	ug/l #	1
36) 1,1-Dichloropropene	5.568	75	10392	4.088	ug/l #	52
37) Ethyl Acetate	4.757	43	4070	1.640	ug/l	95
38) Carbon Tetrachloride	5.568	117	13428	4.716	ug/l #	18
43) Isopropyl Acetate	6.367	43	3835	0.887	ug/l #	89
48) Methyl methacrylate	7.805	41	24349	10.942	ug/l #	49
51) 4-Methyl-2-Pentanone	8.549	43	37740	13.731	ug/l #	52
54) cis-1,3-Dichloropropene	8.549	75	18213	6.394	ug/l #	56
57) 1,3-Dichloropropane	9.488	76	946	0.303	ug/l #	42
59) 2-Hexanone	9.482	43	15672	7.951	ug/l #	56
76) 1,2,3-Trichloropropane	11.079	75	69233	24.131	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	69233	69.608	ug/l #	1

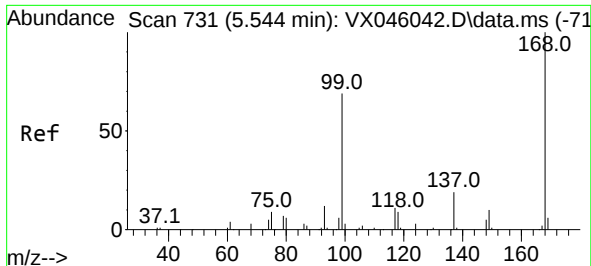
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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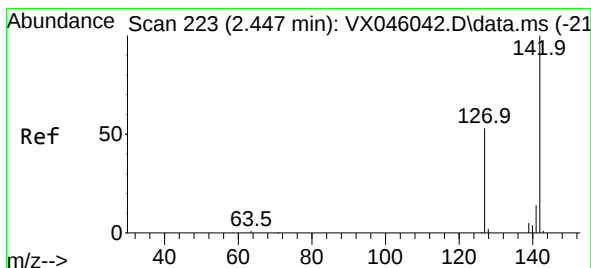
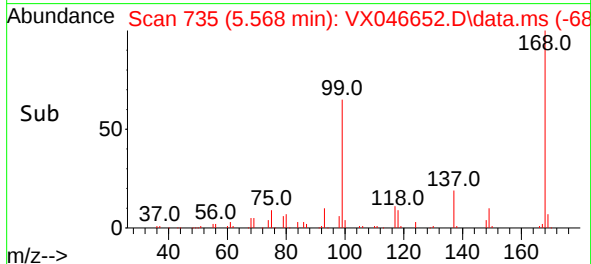
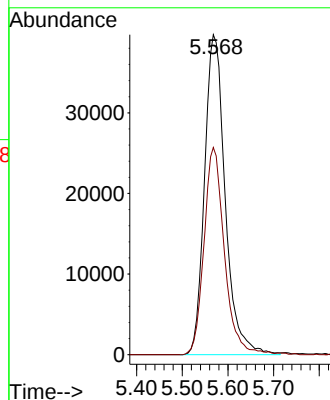
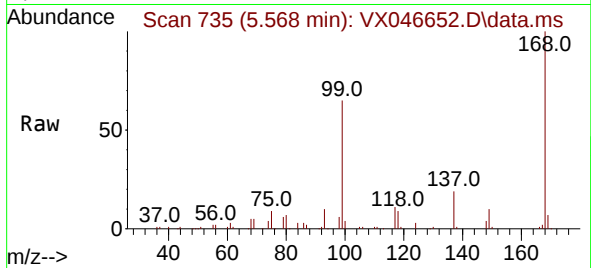




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

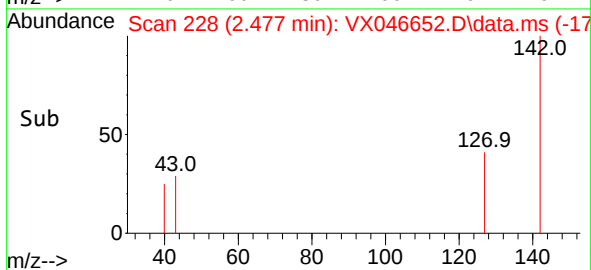
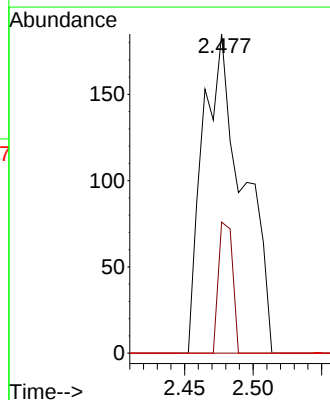
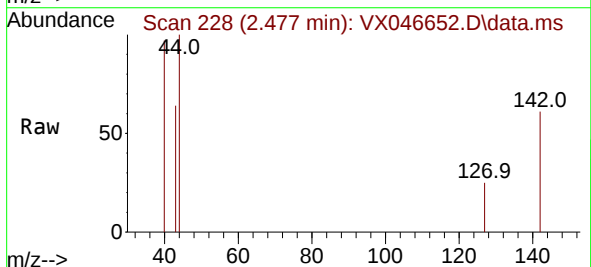
Instrument :
MSVOA_X
ClientSampleId :
RT-4643

Tgt Ion:168 Resp: 124568
Ion Ratio Lower Upper
168 100
99 64.7 54.9 82.3



#10
Methyl Iodide
Concen: 0.214 ug/l
RT: 2.477 min Scan# 228
Delta R.T. 0.006 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

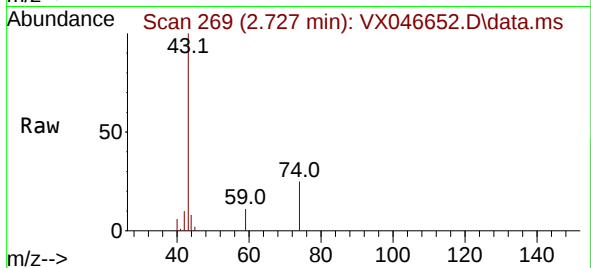
Tgt Ion:142 Resp: 379
Ion Ratio Lower Upper
142 100
127 14.2 41.7 62.5#
141 0.0 11.5 17.3#



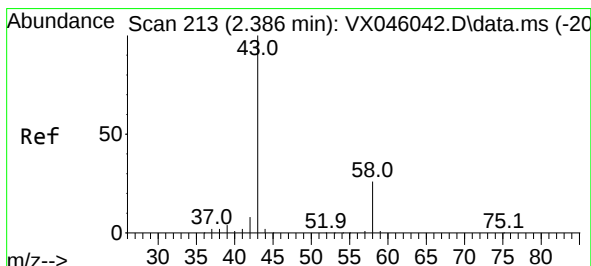
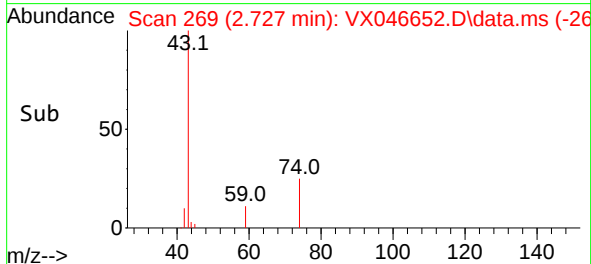
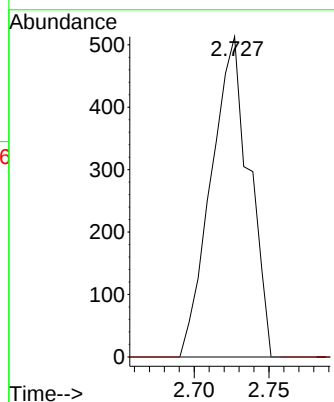


#11
Tert butyl alcohol
Concen: 3.696 ug/l
RT: 2.727 min Scan# 215
Delta R.T. -0.244 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

Instrument :
MSVOA_X
ClientSampleId :
RT-4643

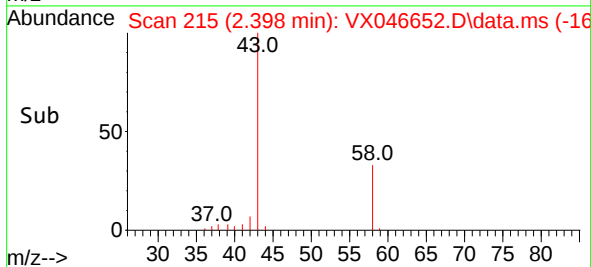
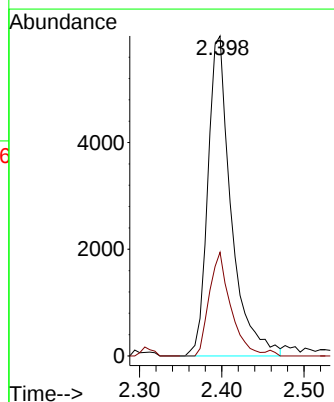
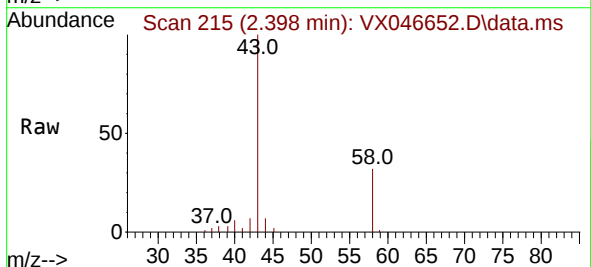


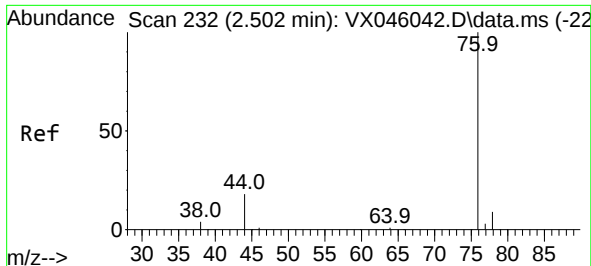
Tgt Ion: 59 Resp: 909
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 17.890 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

Tgt Ion: 43 Resp: 11787
Ion Ratio Lower Upper
43 100
58 32.4 21.2 31.8#





#17

Carbon Disulfide

Concen: 0.311 ug/l

RT: 2.532 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX046652.D

Acq: 11 Jun 2025 20:48

Instrument :

MSVOA_X

ClientSampleId :

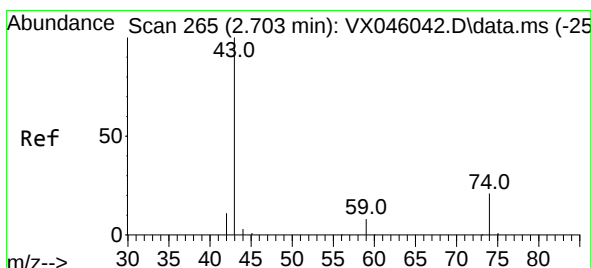
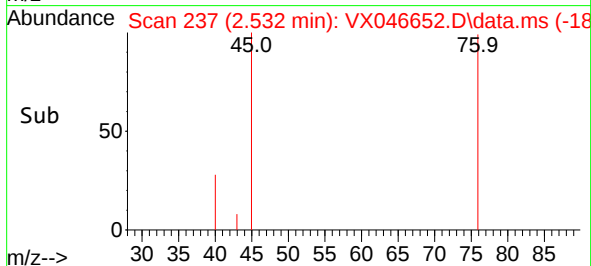
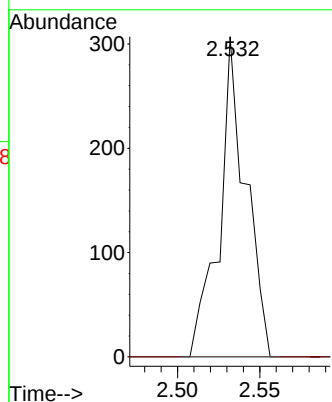
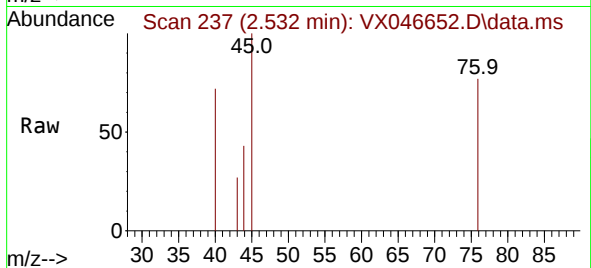
RT-4643

Tgt Ion: 76 Resp: 343

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



#18

Methyl Acetate

Concen: 3.887 ug/l

RT: 2.721 min Scan# 268

Delta R.T. -0.000 min

Lab File: VX046652.D

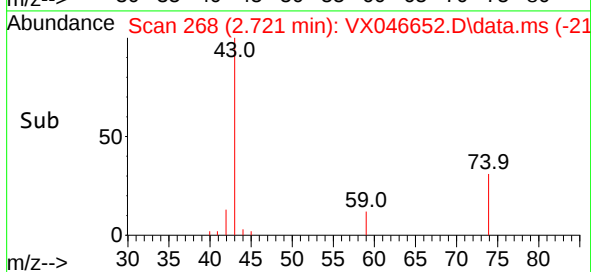
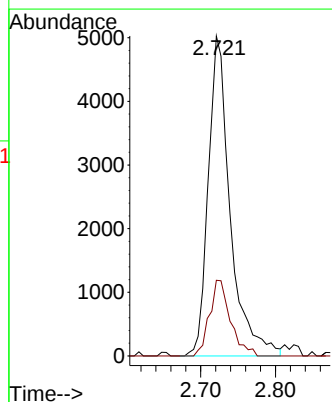
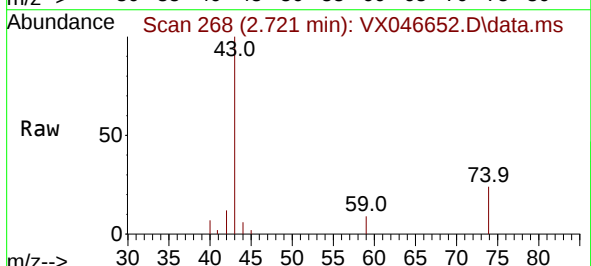
Acq: 11 Jun 2025 20:48

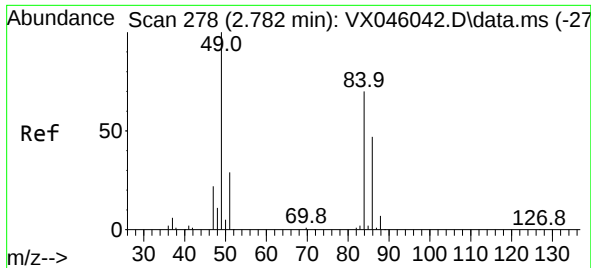
Tgt Ion: 43 Resp: 10262

Ion Ratio Lower Upper

43 100

74 22.5 16.7 25.1

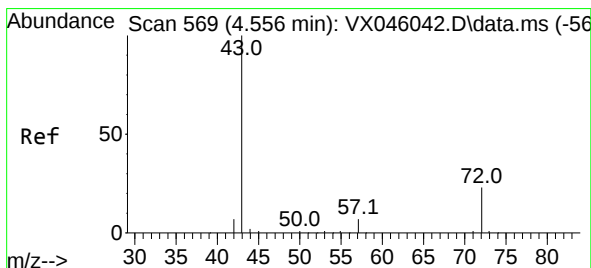
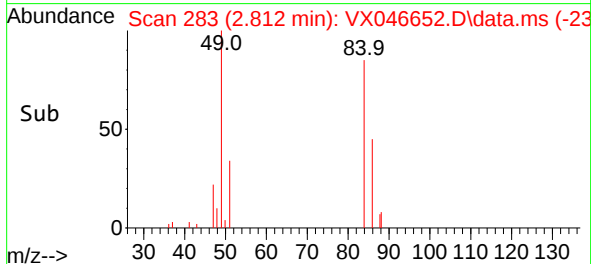
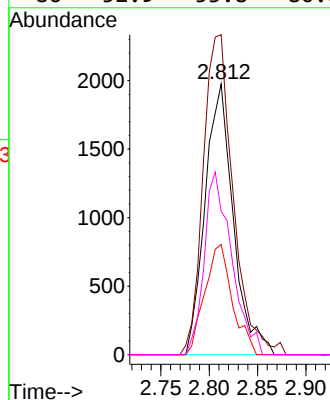
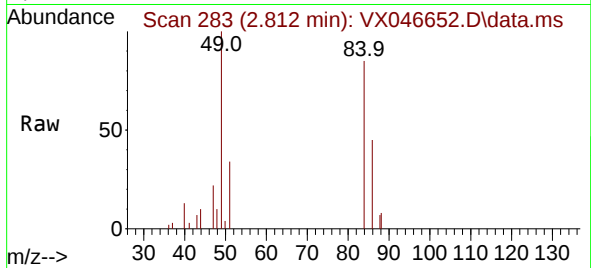




#20
Methylene Chloride
Concen: 2.253 ug/l
RT: 2.812 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

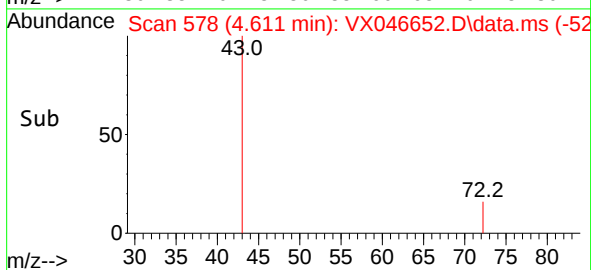
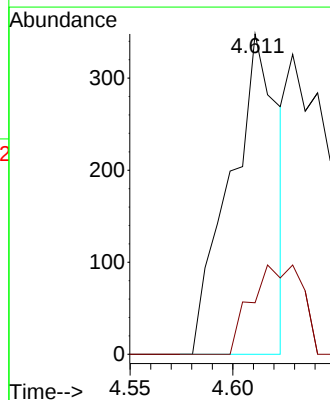
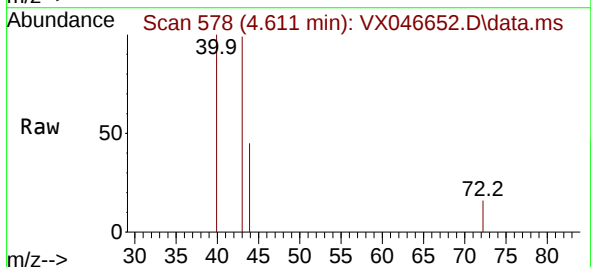
Instrument :
MSVOA_X
ClientSampleId :
RT-4643

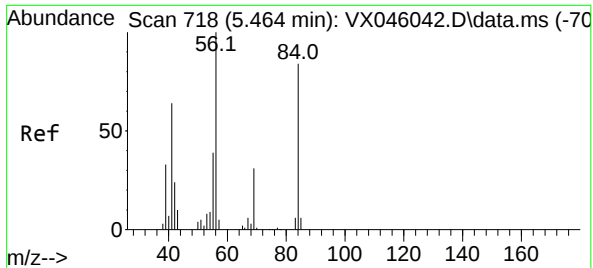
Tgt Ion:	84	Resp:	4006
Ion	Ratio	Lower	Upper
84	100		
49	118.2	113.9	170.9
51	40.7	33.5	50.3
86	52.9	53.8	80.8



#25
2-Butanone
Concen: 0.456 ug/l
RT: 4.611 min Scan# 578
Delta R.T. 0.037 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

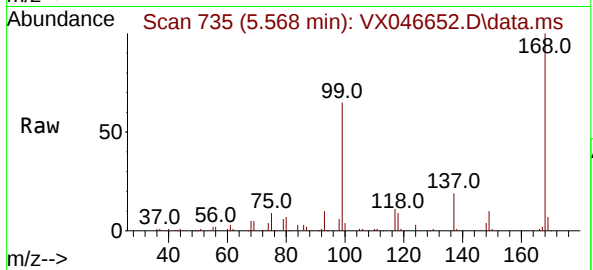
Tgt Ion:	43	Resp:	563
Ion	Ratio	Lower	Upper
43	100		
72	16.1	18.4	27.6



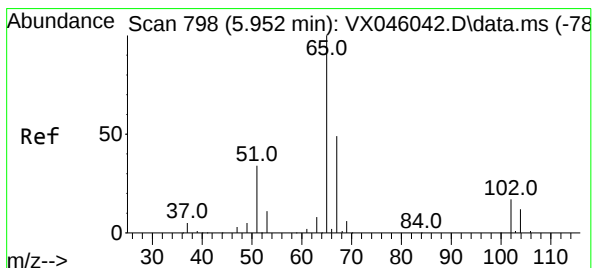
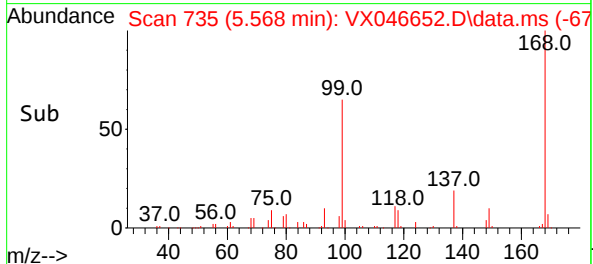
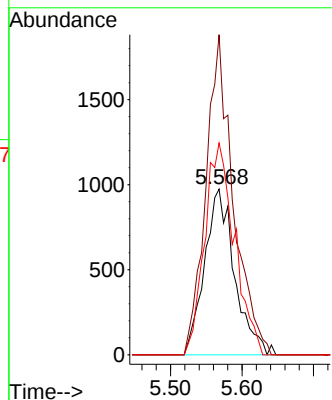


#31
Cyclohexane
Concen: 1.104 ug/l
RT: 5.568 min Scan# 718
Delta R.T. 0.079 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

Instrument :
MSVOA_X
ClientSampleId :
RT-4643

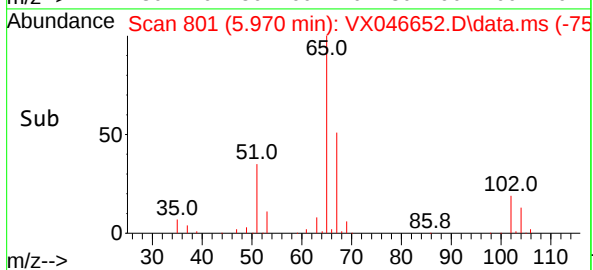
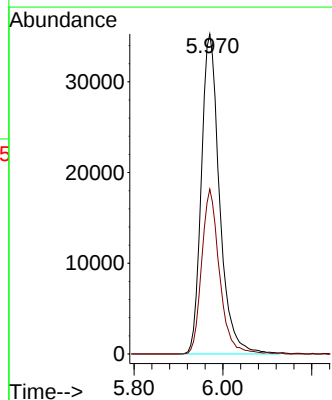
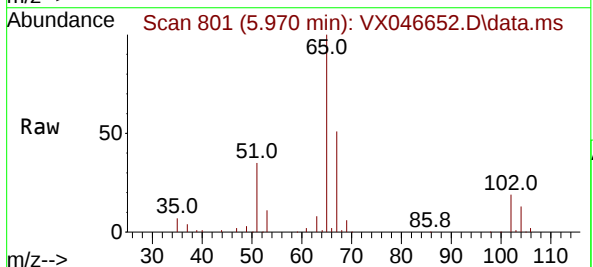


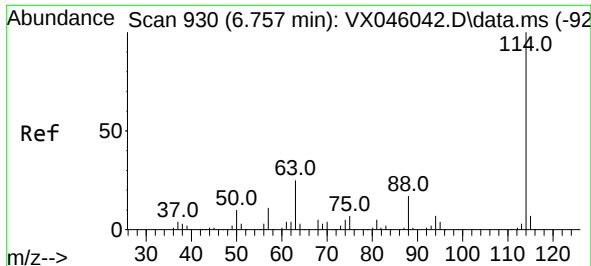
Tgt Ion: 56 Resp: 2845
Ion Ratio Lower Upper
56 100
69 193.2 24.4 36.6#
84 127.8 66.9 100.3#



#33
1,2-Dichloroethane-d4
Concen: 45.399 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.000 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

Tgt Ion: 65 Resp: 100614
Ion Ratio Lower Upper
65 100
67 50.3 0.0 99.0

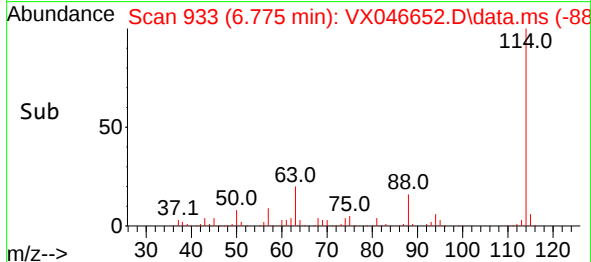
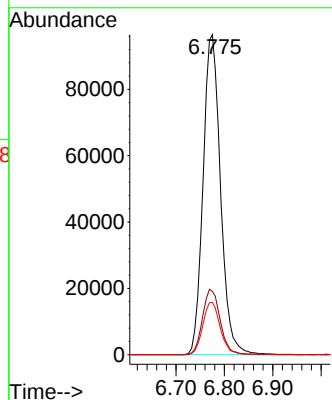
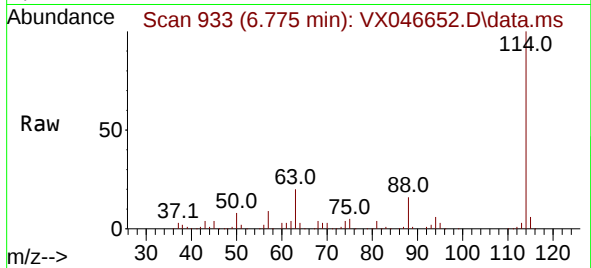




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.775 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VX046652.D
 Acq: 11 Jun 2025 20:48

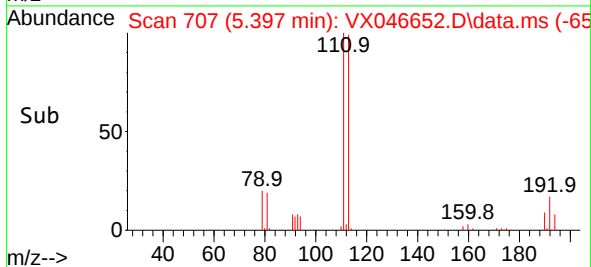
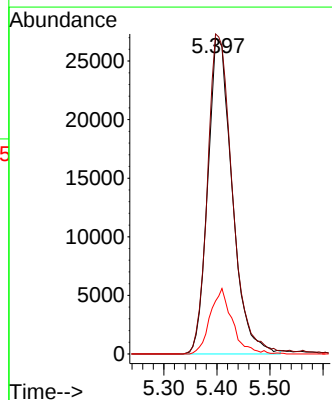
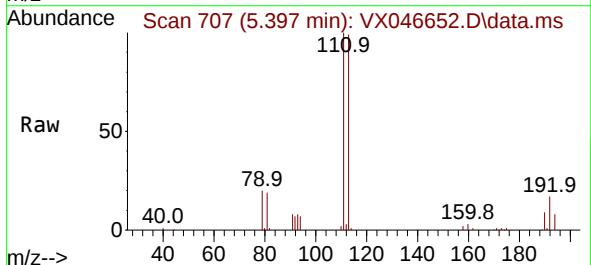
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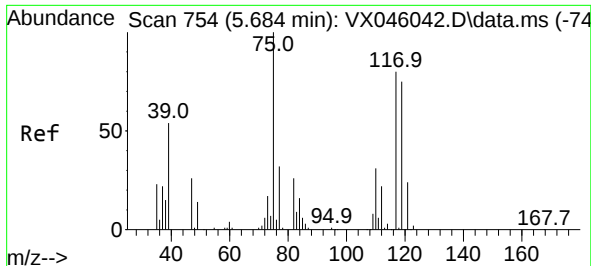
Tgt Ion:114 Resp: 241991
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 49.2
 88 16.3 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 48.413 ug/l
 RT: 5.397 min Scan# 707
 Delta R.T. -0.006 min
 Lab File: VX046652.D
 Acq: 11 Jun 2025 20:48

Tgt Ion:113 Resp: 86155
 Ion Ratio Lower Upper
 113 100
 111 102.9 83.1 124.7
 192 18.9 13.3 19.9

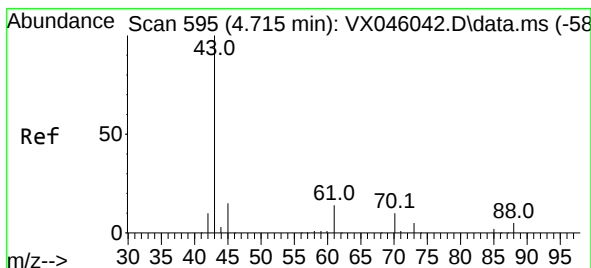
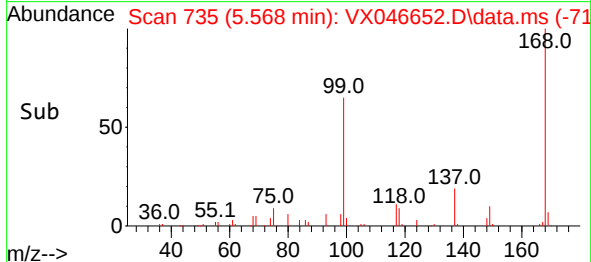
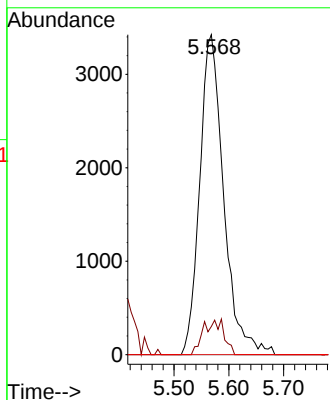
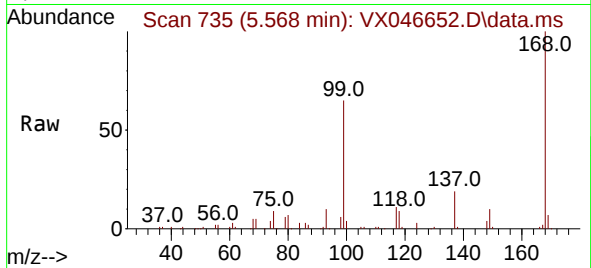




#36
1,1-Dichloropropene
Concen: 4.088 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

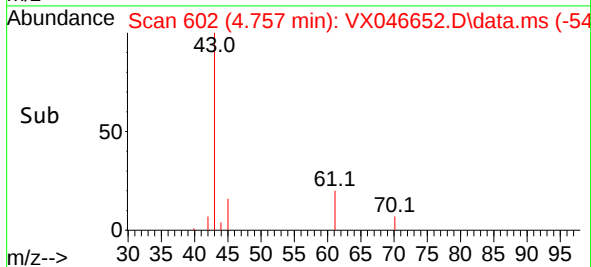
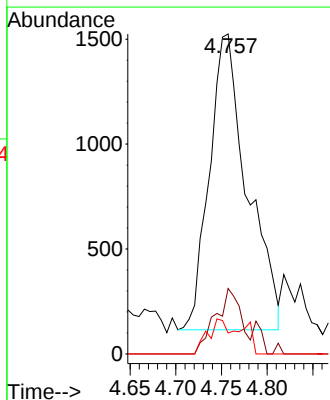
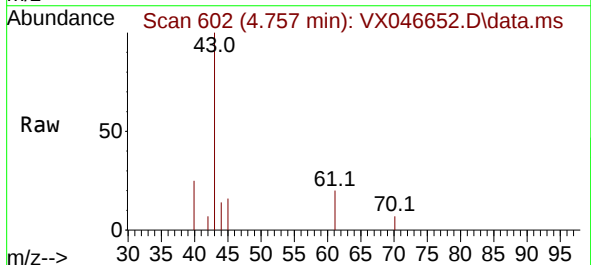
Instrument :
MSVOA_X
ClientSampleId :
RT-4643

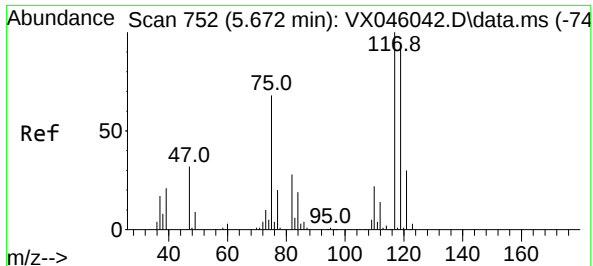
Tgt Ion: 75 Resp: 10392
Ion Ratio Lower Upper
75 100
110 9.4 16.3 48.9#
77 0.0 24.3 36.5#



#37
Ethyl Acetate
Concen: 1.640 ug/l
RT: 4.757 min Scan# 602
Delta R.T. 0.024 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

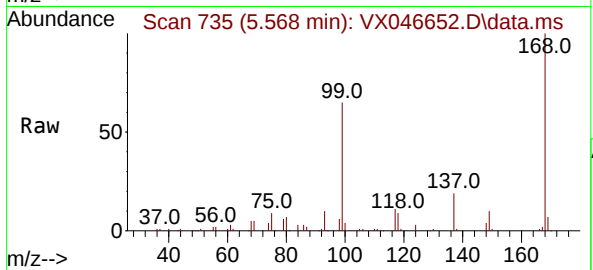
Tgt Ion: 43 Resp: 4070
Ion Ratio Lower Upper
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61 15.0 10.3 15.5
70 7.9 7.9 11.9



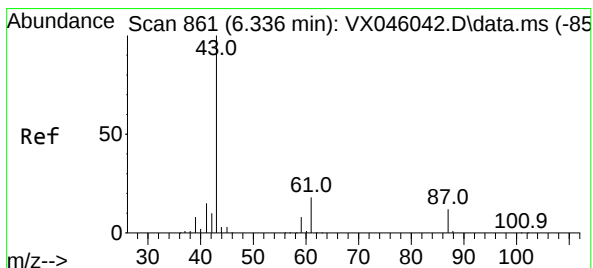
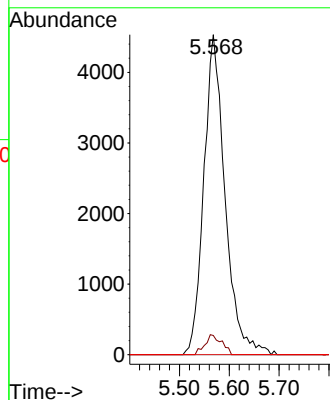
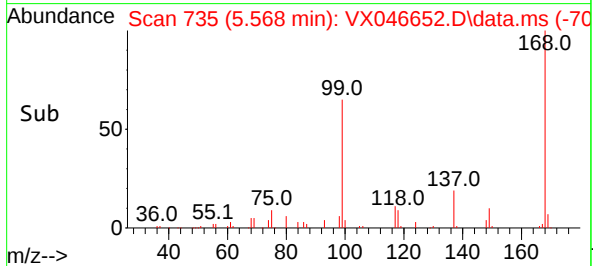


#38
Carbon Tetrachloride
Concen: 4.716 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

Instrument :
MSVOA_X
ClientSampleId :
RT-4643

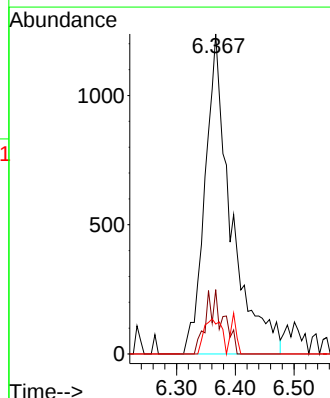
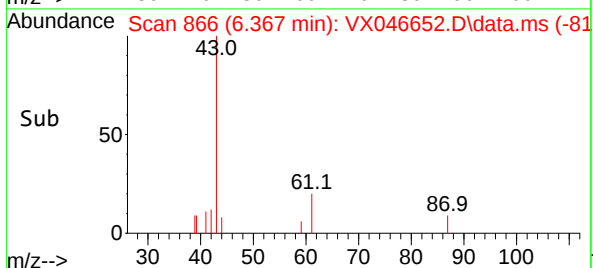
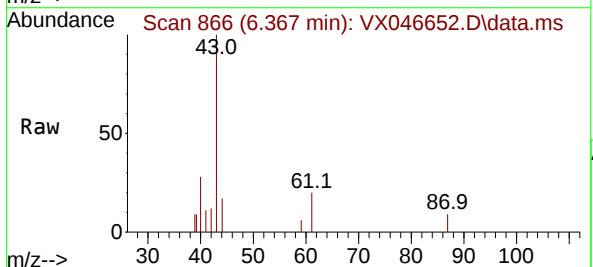


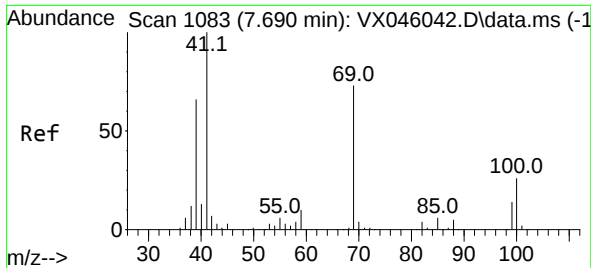
Tgt Ion:117 Resp: 13428
Ion Ratio Lower Upper
117 100
119 6.0 75.2 112.8#
121 0.0 24.2 36.4#



#43
Isopropyl Acetate
Concen: 0.887 ug/l
RT: 6.367 min Scan# 866
Delta R.T. 0.013 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

Tgt Ion: 43 Resp: 3835
Ion Ratio Lower Upper
43 100
61 13.2 14.3 21.5#
87 7.2 9.5 14.3#

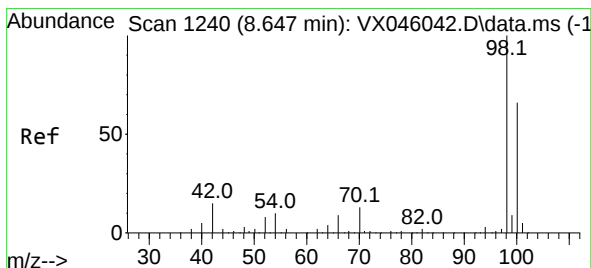
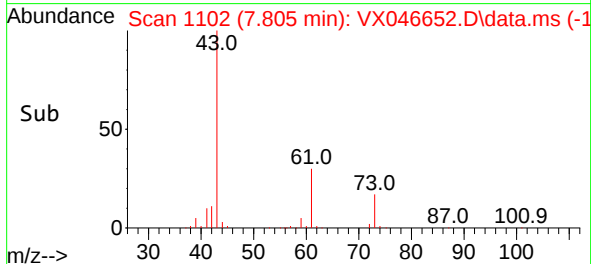
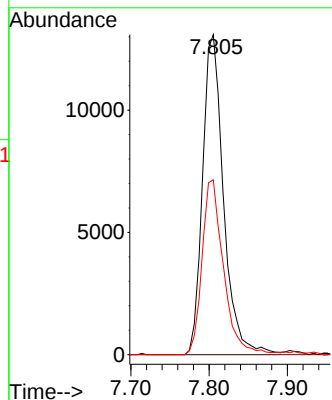
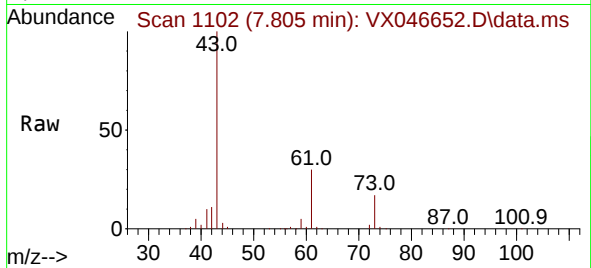




#48
Methyl methacrylate
Concen: 10.942 ug/l
RT: 7.805 min Scan# 1102
Delta R.T. 0.103 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

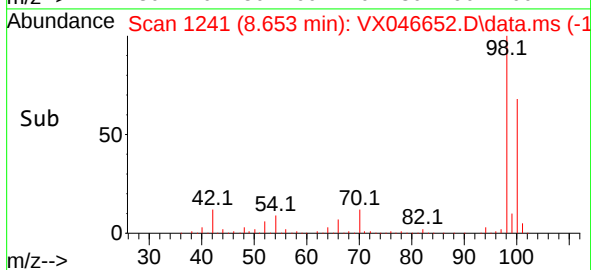
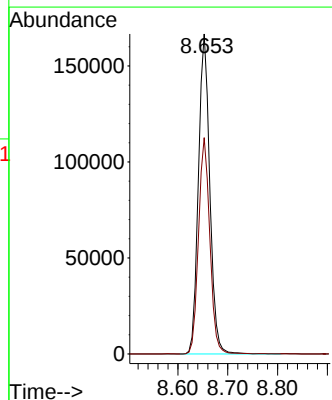
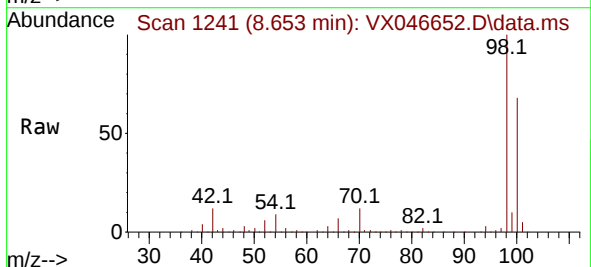
Instrument :
MSVOA_X
ClientSampleId :
RT-4643

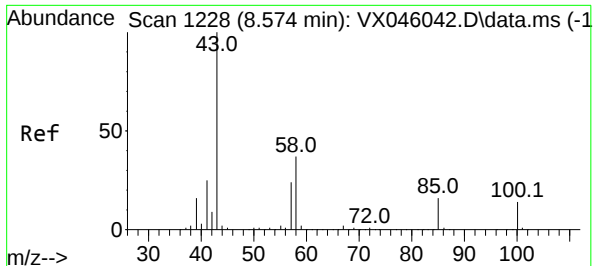
Tgt Ion: 41 Resp: 24349
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 56.0 51.7 77.5



#50
Toluene-d8
Concen: 44.980 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

Tgt Ion: 98 Resp: 263900
Ion Ratio Lower Upper
98 100
100 67.2 53.5 80.3

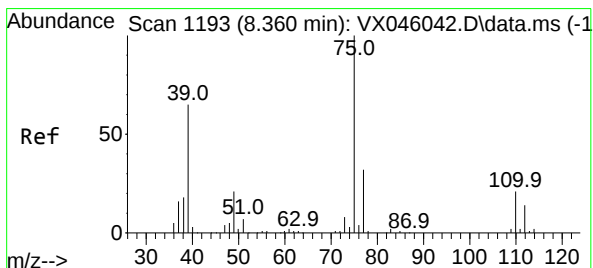
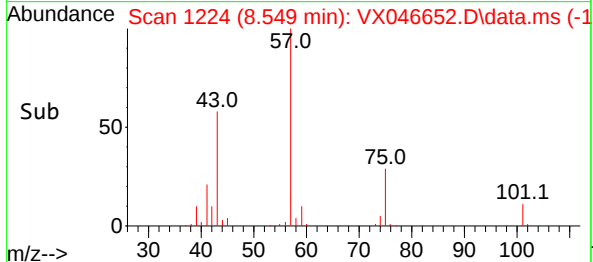
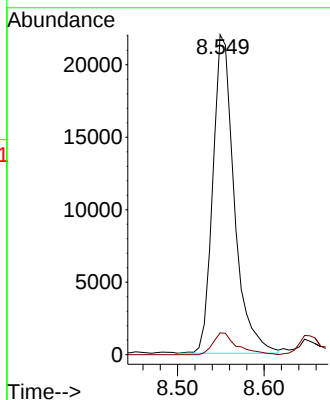
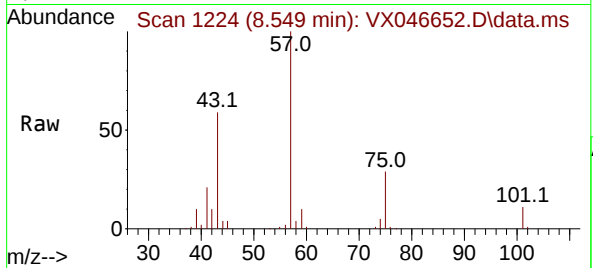




#51
4-Methyl-2-Pentanone
Concen: 13.731 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

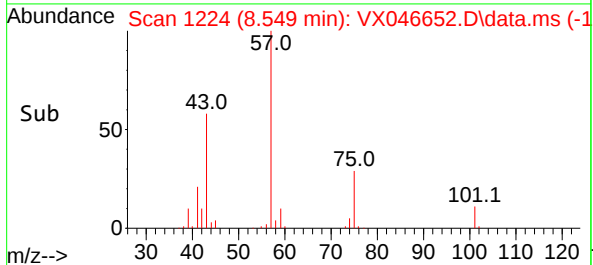
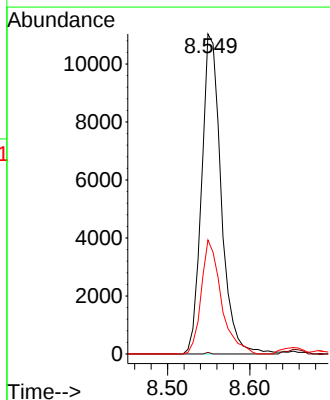
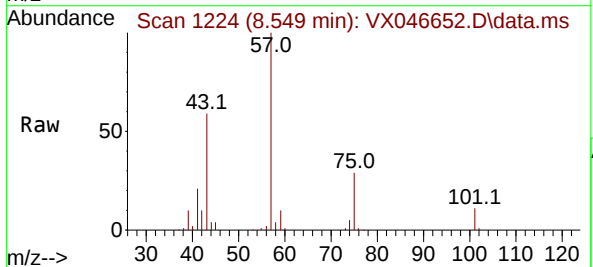
Instrument :
MSVOA_X
ClientSampleId :
RT-4643

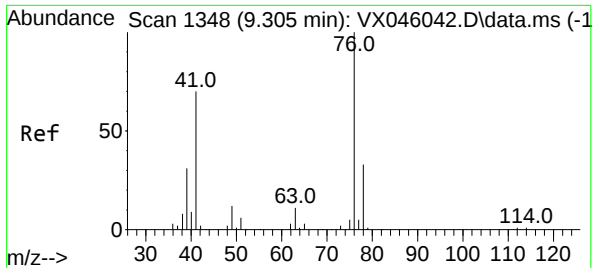
Tgt Ion: 43 Resp: 37740
Ion Ratio Lower Upper
43 100
58 7.6 28.9 43.3#



#54
cis-1,3-Dichloropropene
Concen: 6.394 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.177 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

Tgt Ion: 75 Resp: 18213
Ion Ratio Lower Upper
75 100
77 0.5 25.4 38.0#
39 35.6 52.2 78.4#





#57

1,3-Dichloropropane

Concen: 0.303 ug/l

RT: 9.488 min Scan# 1

Delta R.T. 0.177 min

Lab File: VX046652.D

Acq: 11 Jun 2025 20:48

Instrument :

MSVOA_X

ClientSampleId :

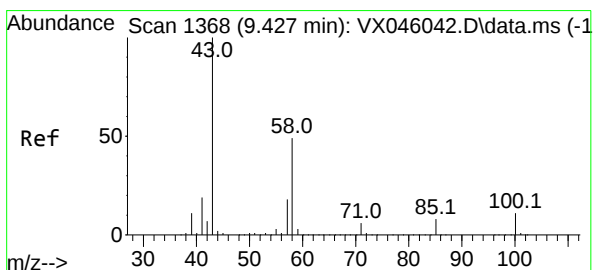
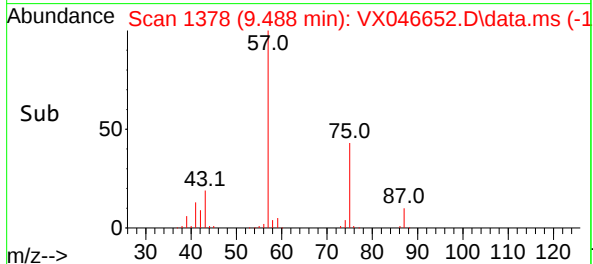
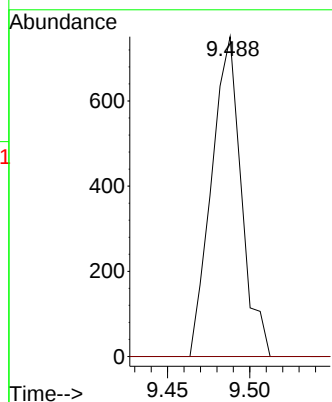
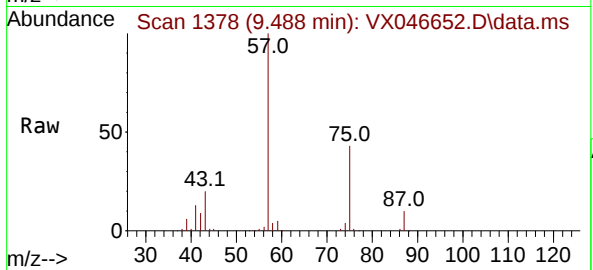
RT-4643

Tgt Ion: 76 Resp: 946

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#



#59

2-Hexanone

Concen: 7.951 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX046652.D

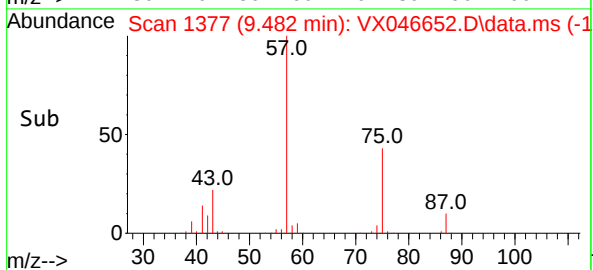
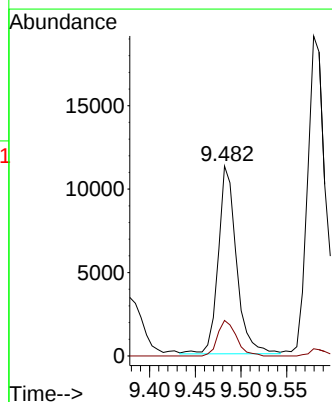
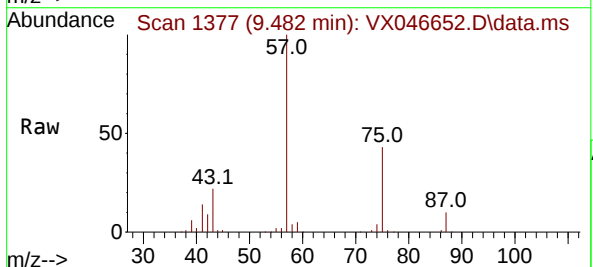
Acq: 11 Jun 2025 20:48

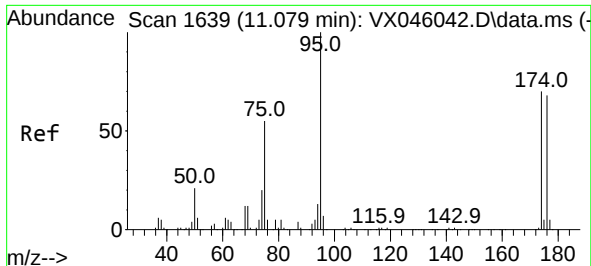
Tgt Ion: 43 Resp: 15672

Ion Ratio Lower Upper

43 100

58 19.5 24.9 74.6#

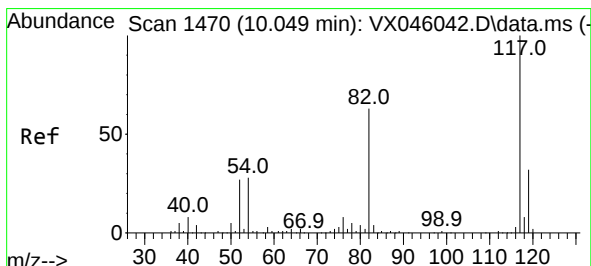
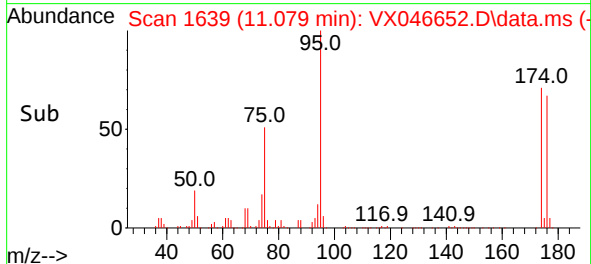
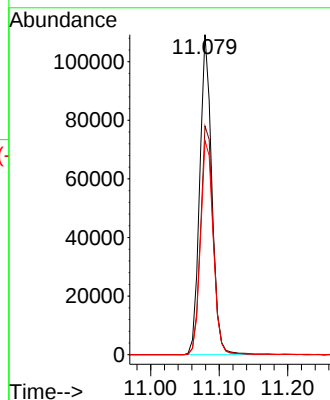
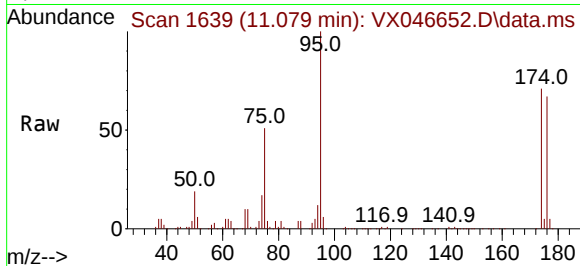




#62
4-Bromofluorobenzene
Concen: 55.226 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

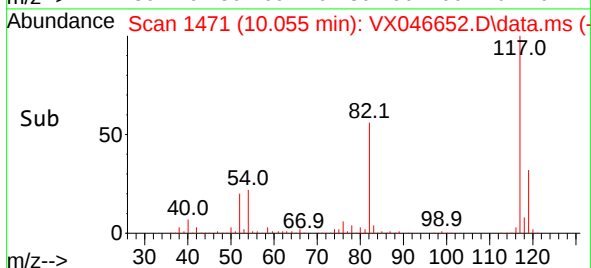
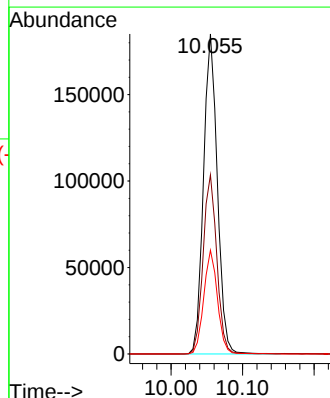
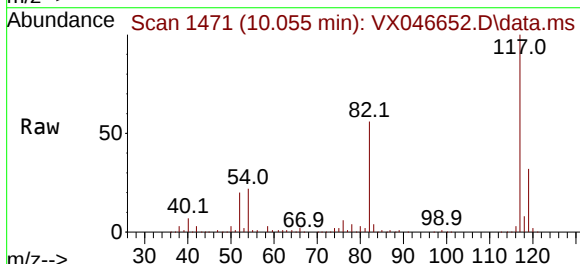
Instrument :
MSVOA_X
ClientSampleId :
RT-4643

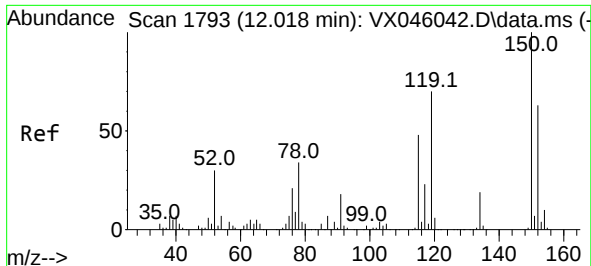
Tgt Ion: 95 Resp: 134061
Ion Ratio Lower Upper
95 100
174 75.1 0.0 135.8
176 70.5 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX046652.D
Acq: 11 Jun 2025 20:48

Tgt Ion: 117 Resp: 248938
Ion Ratio Lower Upper
117 100
82 55.9 50.6 76.0
119 32.4 25.8 38.6

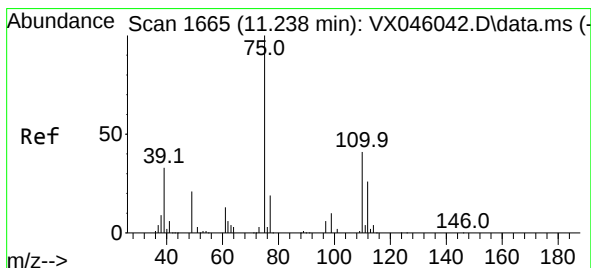
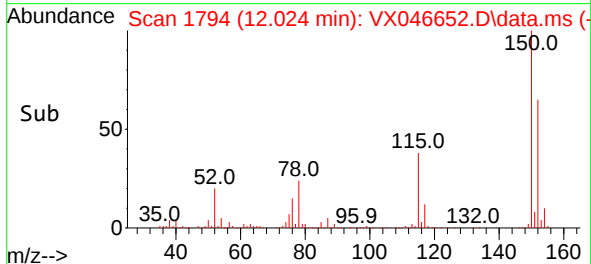
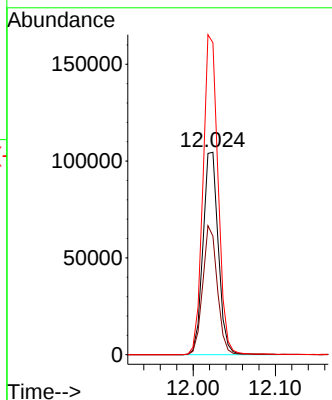
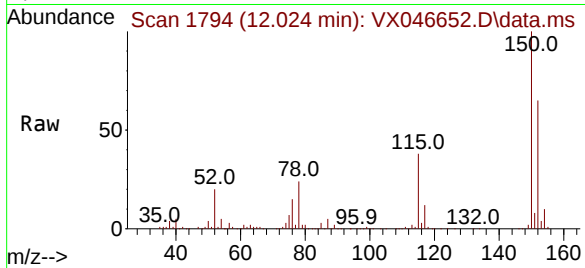




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX046652.D
 Acq: 11 Jun 2025 20:48

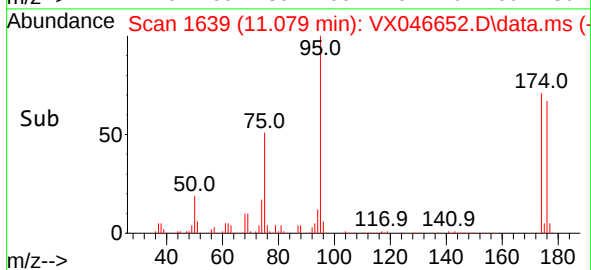
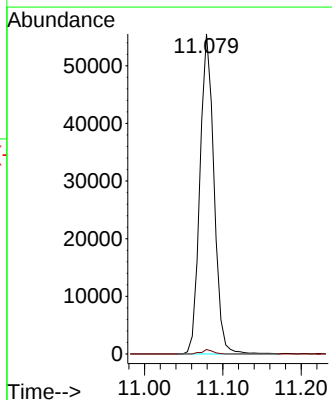
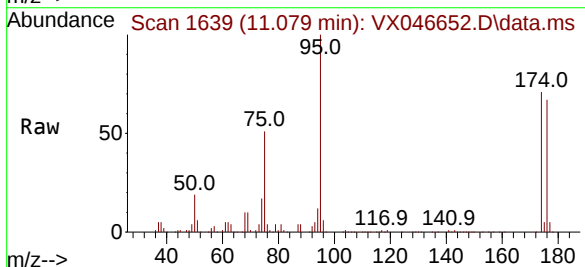
Instrument :
 MSVOA_X
 ClientSampleId :
 RT-4643

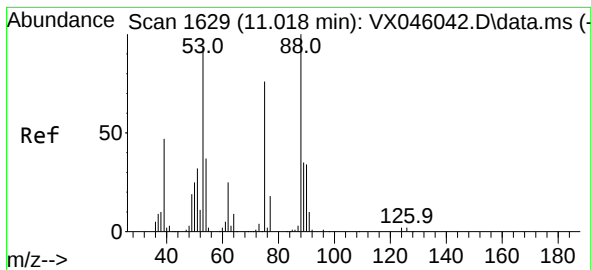
Tgt Ion:152 Resp: 135454
 Ion Ratio Lower Upper
 152 100
 115 60.8 46.9 140.7
 150 156.3 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 24.131 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX046652.D
 Acq: 11 Jun 2025 20:48

Tgt Ion: 75 Resp: 69233
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.5 61.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.608 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX046652.D
 Acq: 11 Jun 2025 20:48

Instrument :
 MSVOA_X
 ClientSampleId :
 RT-4643

Tgt Ion: 75 Resp: 69233
 Ion Ratio Lower Upper
 75 100
 53 0.0 100.5 150.7#
 89 0.0 37.0 55.6#

