

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080825\
 Data File : VX047271.D
 Acq On : 08 Aug 2025 15:09
 Operator : JC/MD
 Sample : Q2783-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RT5414

Quant Time: Aug 11 02:01:57 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)

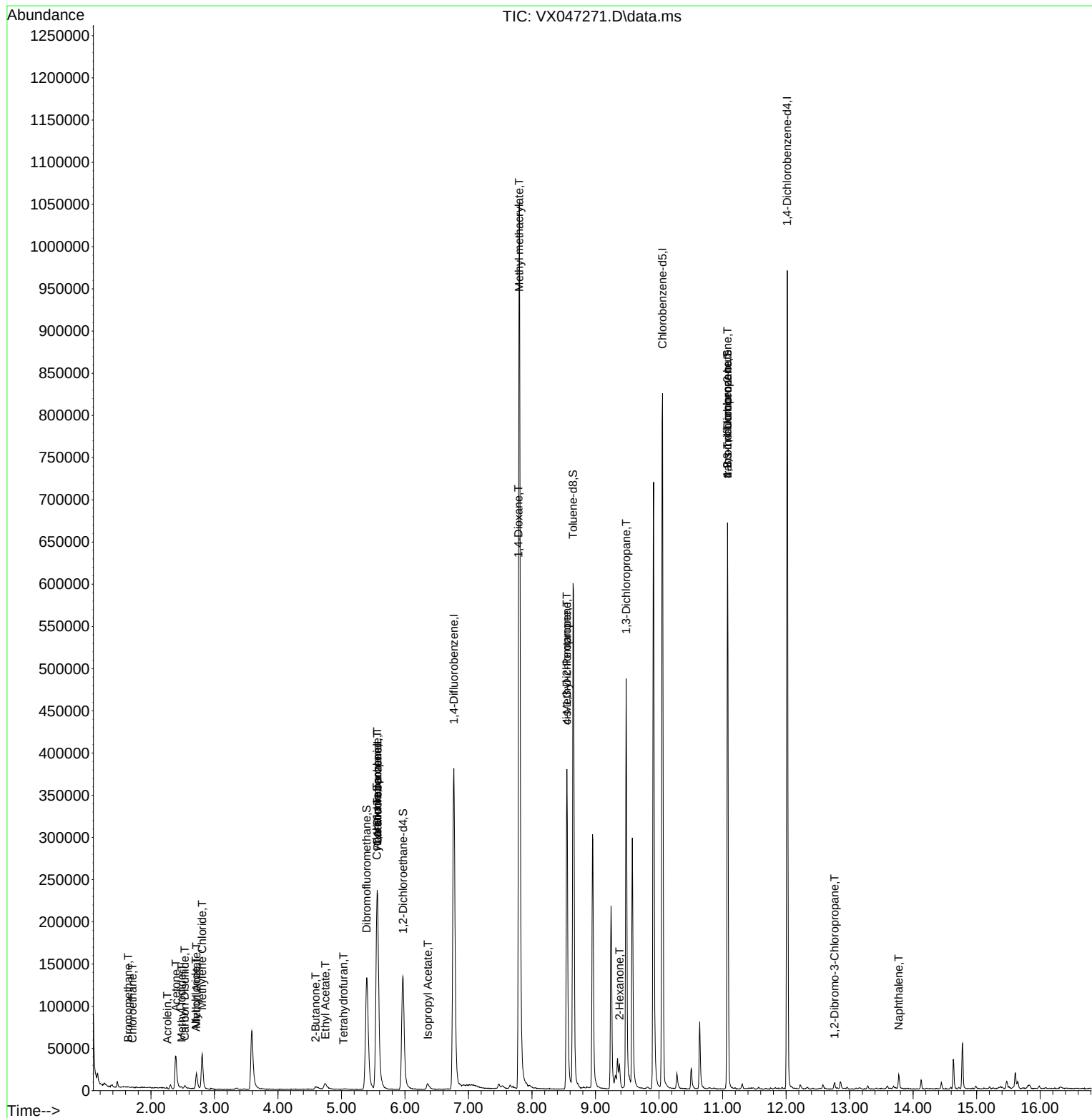
Internal Standards						
1) Pentafluorobenzene	5.568	168	240753	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	408701	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	365817	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	191635	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	145863	48.637	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	97.280%		
35) Dibromofluoromethane	5.397	113	126997	50.327	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.660%		
50) Toluene-d8	8.647	98	369101	45.166	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	90.340%#		
62) 4-Bromofluorobenzene	11.079	95	176437	50.099	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	100.200%		
Target Compounds					Qvalue	
5) Bromomethane	1.642	94	598	0.324	ug/l #	4
6) Chloroethane	1.709	64	583	0.261	ug/l #	43
10) Methyl Iodide	2.483	142	2792	0.897	ug/l	92
11) Tert butyl alcohol	2.959	59	145	Below Cal	#	72
13) Acrolein	2.258	56	195	0.302	ug/l #	15
14) Allyl chloride	2.709	41	1567	0.287	ug/l #	51
16) Acetone	2.392	43	59713	49.702	ug/l	100
17) Carbon Disulfide	2.532	76	6925	0.791	ug/l	100
18) Methyl Acetate	2.715	43	26193	8.204	ug/l	98
20) Methylene Chloride	2.806	84	20364	6.161	ug/l	96
25) 2-Butanone	4.593	43	5046	2.884	ug/l #	74
29) Tetrahydrofuran	5.032	42	299	0.265	ug/l #	62
31) Cyclohexane	5.556	56	5490	0.979	ug/l #	22
36) 1,1-Dichloropropene	5.562	75	19627	4.563	ug/l #	52
37) Ethyl Acetate	4.745	43	13115	3.309	ug/l #	91
38) Carbon Tetrachloride	5.562	117	25925	5.647	ug/l #	15
43) Isopropyl Acetate	6.361	43	10983	1.777	ug/l #	93
48) Methyl methacrylate	7.799	41	100496	29.855	ug/l #	46
49) 1,4-Dioxane	7.787	88	22	0.575	ug/l #	20
51) 4-Methyl-2-Pentanone	8.549	43	141793	38.606	ug/l #	50
54) cis-1,3-Dichloropropene	8.549	75	63620	13.227	ug/l #	62
57) 1,3-Dichloropropane	9.482	76	3949	0.792	ug/l #	43
59) 2-Hexanone	9.378	43	17607	7.256	ug/l #	25
76) 1,2,3-Trichloropropane	11.079	75	91335	25.749	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	91335	66.341	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	12.762	75	191	0.230	ug/l #	2
95) Naphthalene	13.774	128	11309	0.887	ug/l	96

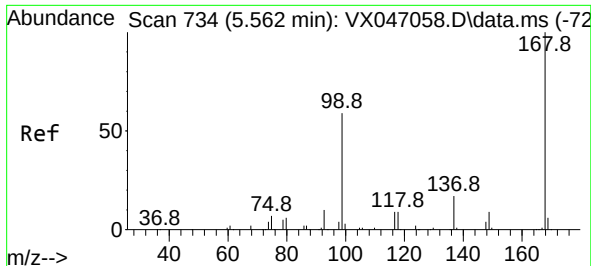
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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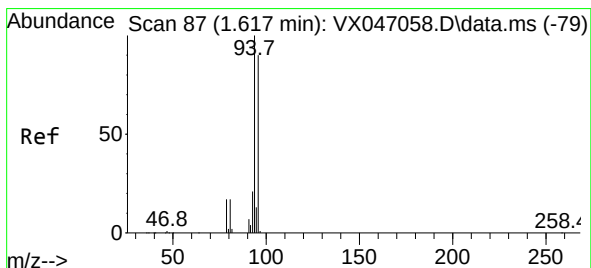
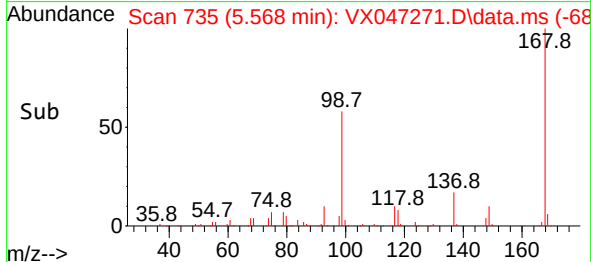
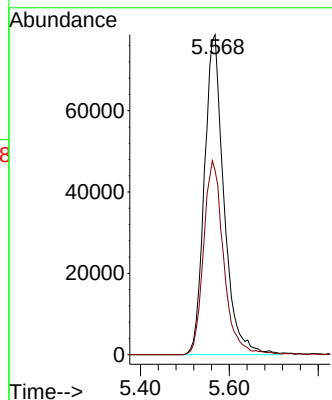
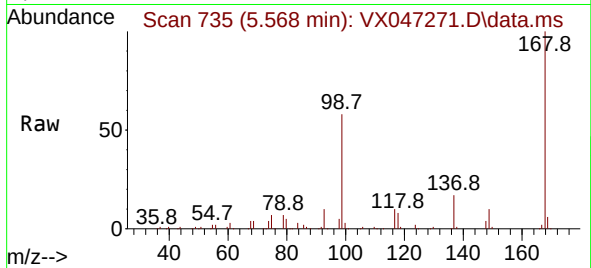




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

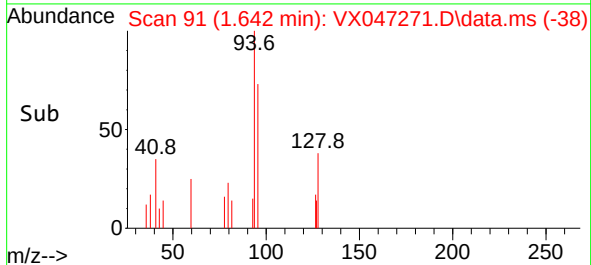
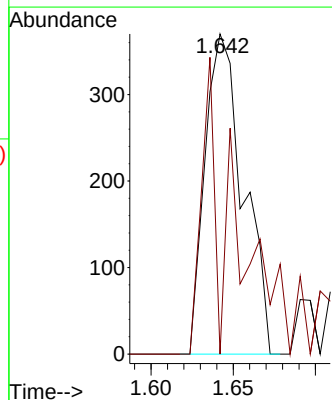
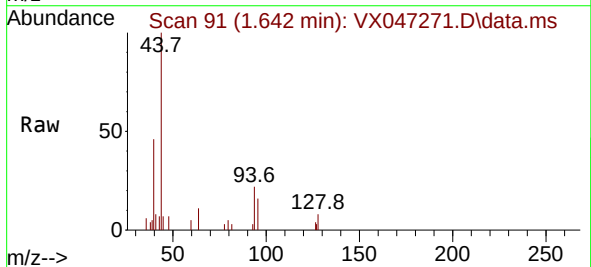
Instrument :
MSVOA_X
ClientSampleId :
RT5414

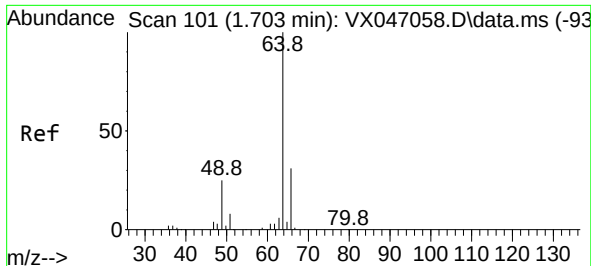
Tgt Ion:168 Resp: 240753
Ion Ratio Lower Upper
168 100
99 57.5 48.0 72.0



#5
Bromomethane
Concen: 0.324 ug/l
RT: 1.642 min Scan# 91
Delta R.T. 0.025 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

Tgt Ion: 94 Resp: 598
Ion Ratio Lower Upper
94 100
96 0.0 72.3 108.5#

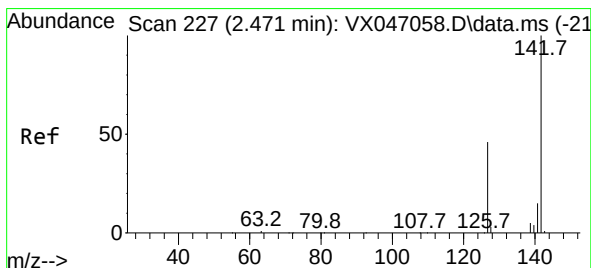
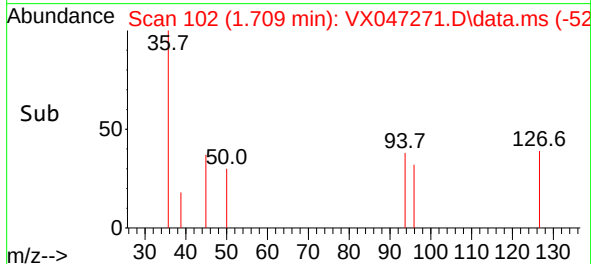
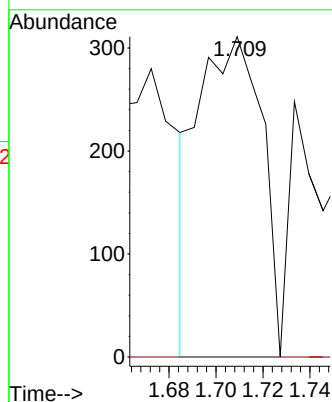
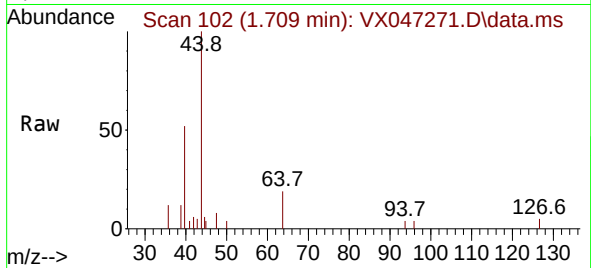




#6
Chloroethane
Concen: 0.261 ug/l
RT: 1.709 min Scan# 101
Delta R.T. 0.006 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

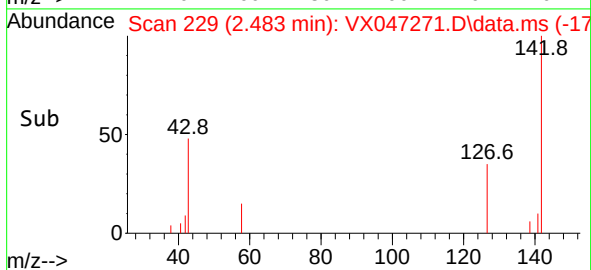
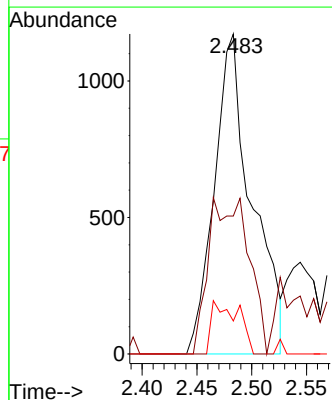
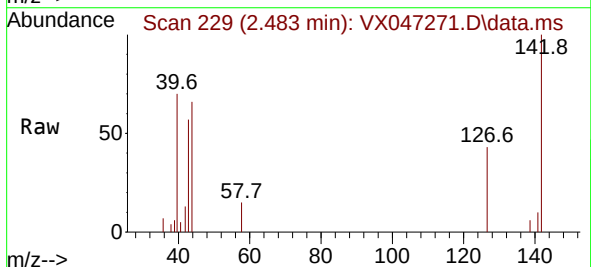
Instrument :
MSVOA_X
ClientSampleId :
RT5414

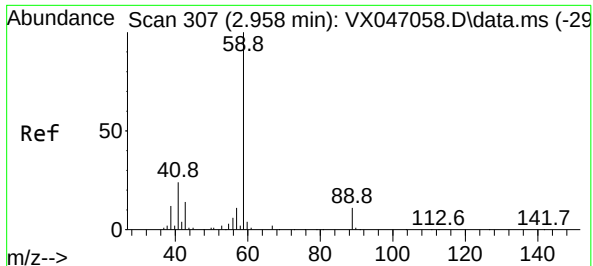
Tgt Ion: 64 Resp: 583
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.6#



#10
Methyl Iodide
Concen: 0.897 ug/l
RT: 2.483 min Scan# 229
Delta R.T. 0.013 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

Tgt Ion:142 Resp: 2792
Ion Ratio Lower Upper
142 100
127 51.9 36.6 54.8
141 11.7 10.9 16.3

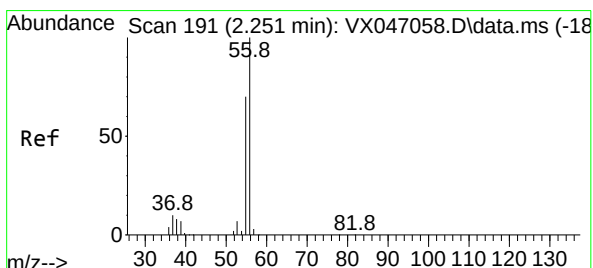
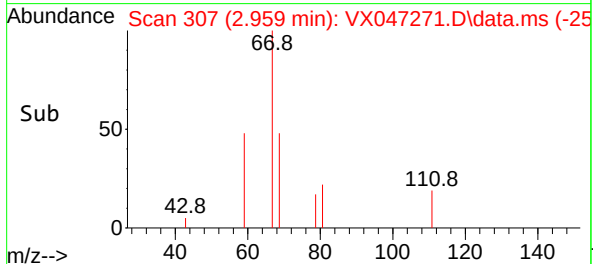
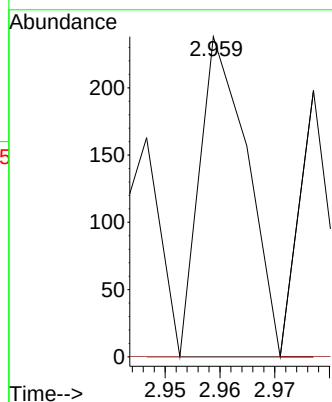
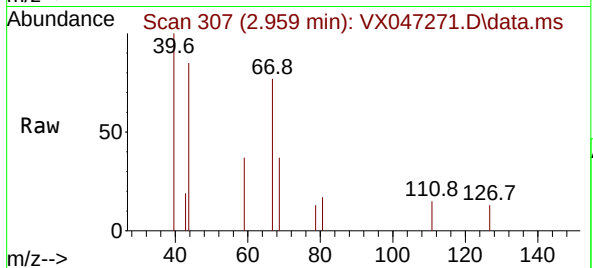




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.959 min Scan# 307
Delta R.T. 0.001 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

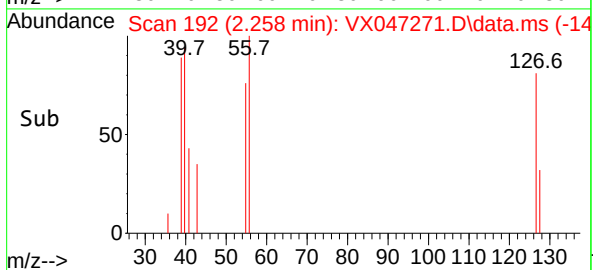
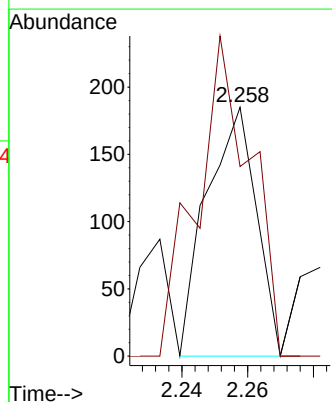
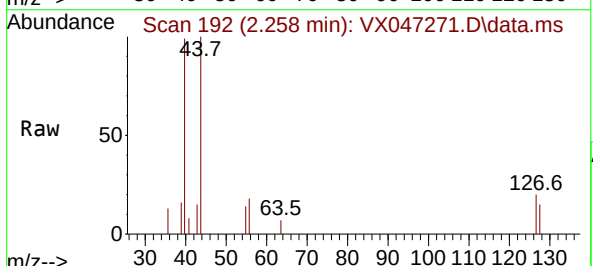
Instrument :
MSVOA_X
ClientSampleId :
RT5414

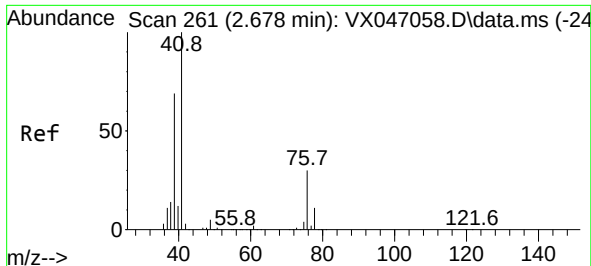
Tgt Ion: 59 Resp: 145
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 0.302 ug/l
RT: 2.258 min Scan# 192
Delta R.T. 0.006 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

Tgt Ion: 56 Resp: 195
Ion Ratio Lower Upper
56 100
55 139.0 55.7 83.5#

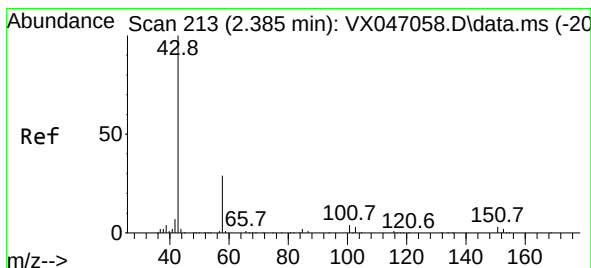
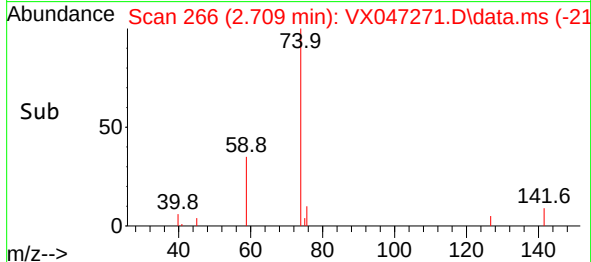
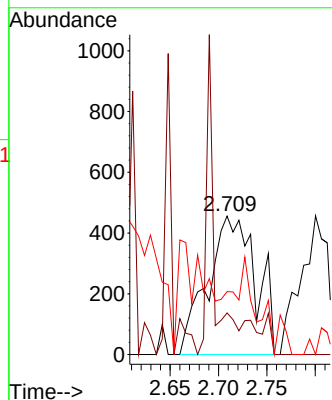
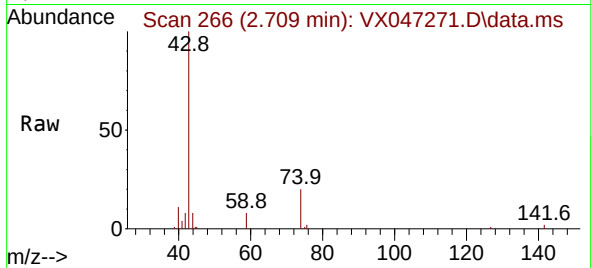




#14
 Allyl chloride
 Concen: 0.287 ug/l
 RT: 2.709 min Scan# 214
 Delta R.T. 0.031 min
 Lab File: VX047271.D
 Acq: 08 Aug 2025 15:09

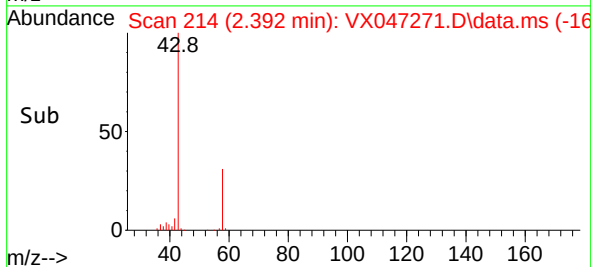
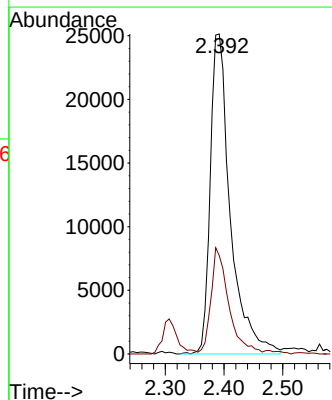
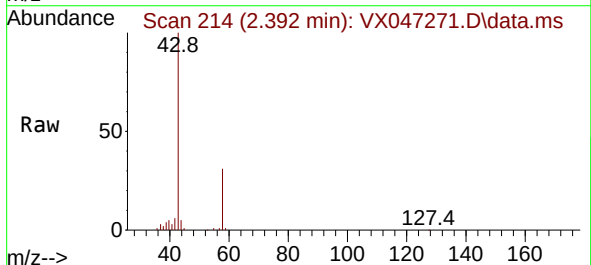
Instrument :
 MSVOA_X
 ClientSampleId :
 RT5414

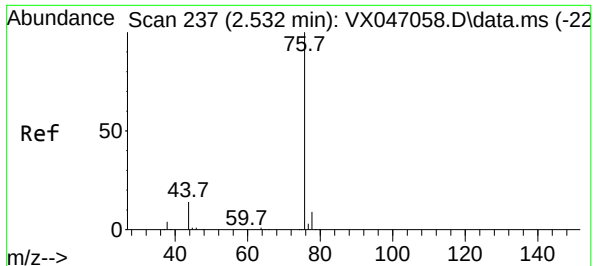
Tgt Ion: 41 Resp: 1567
 Ion Ratio Lower Upper
 41 100
 39 30.6 52.6 78.8#
 76 0.0 25.7 38.5#



#16
 Acetone
 Concen: 49.702 ug/l
 RT: 2.392 min Scan# 214
 Delta R.T. 0.006 min
 Lab File: VX047271.D
 Acq: 08 Aug 2025 15:09

Tgt Ion: 43 Resp: 59713
 Ion Ratio Lower Upper
 43 100
 58 30.0 24.0 36.0

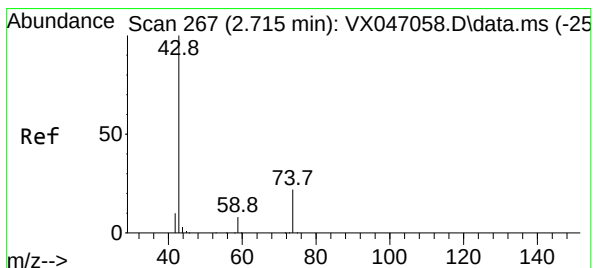
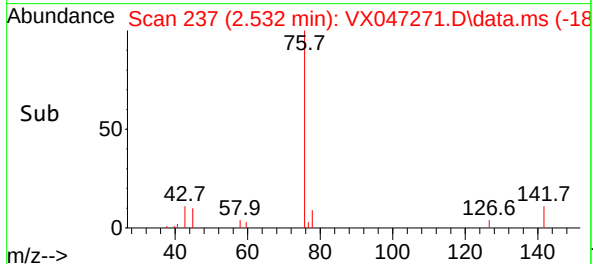
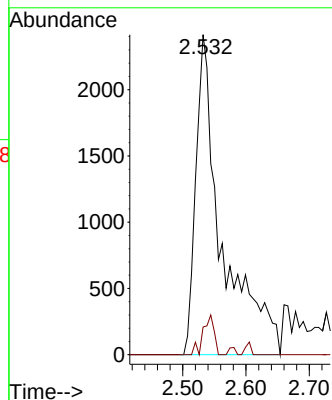
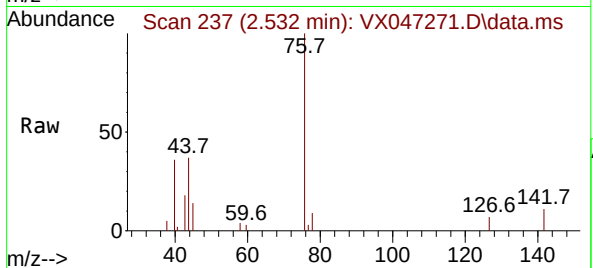




#17
Carbon Disulfide
Concen: 0.791 ug/l
RT: 2.532 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

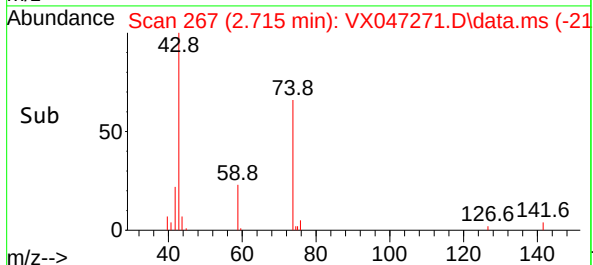
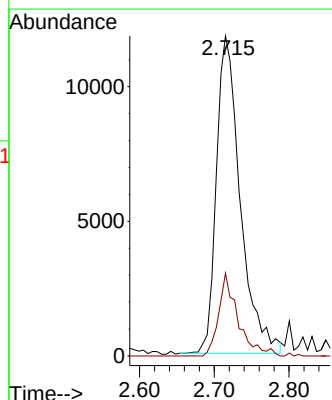
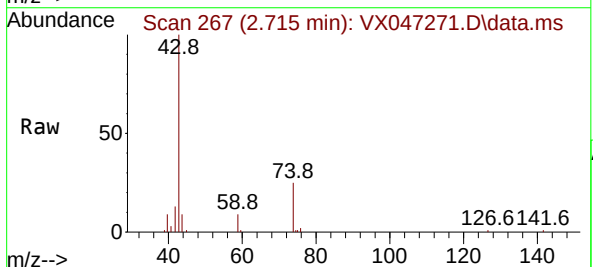
Instrument :
MSVOA_X
ClientSampleId :
RT5414

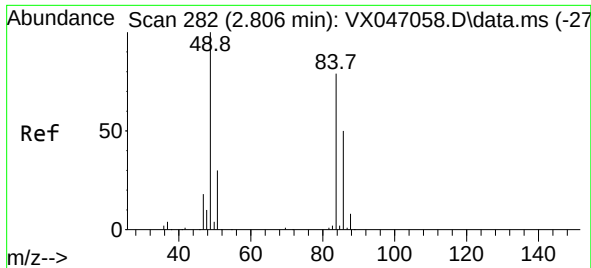
Tgt Ion: 76 Resp: 6925
Ion Ratio Lower Upper
76 100
78 8.7 7.0 10.4



#18
Methyl Acetate
Concen: 8.204 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

Tgt Ion: 43 Resp: 26193
Ion Ratio Lower Upper
43 100
74 21.1 17.7 26.5

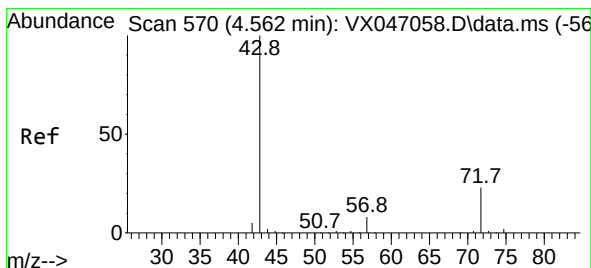
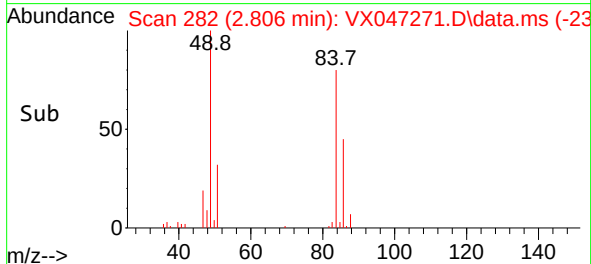
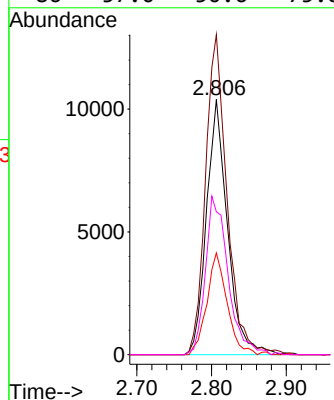
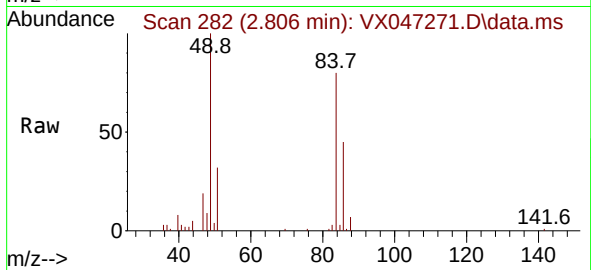




#20
Methylene Chloride
Concen: 6.161 ug/l
RT: 2.806 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

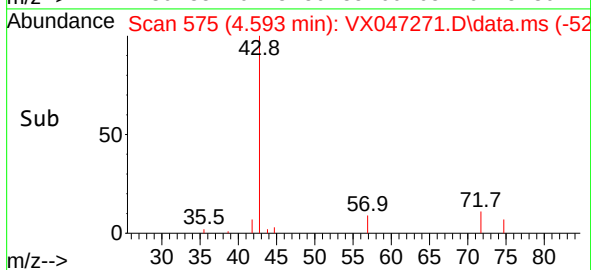
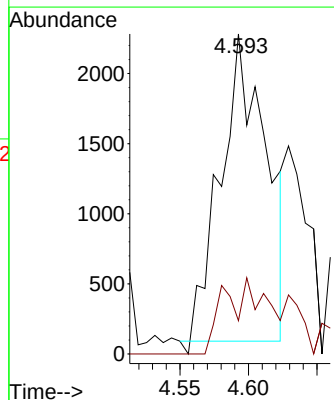
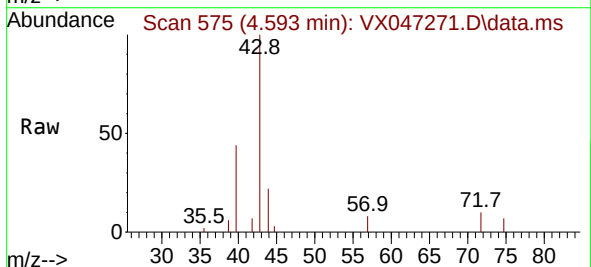
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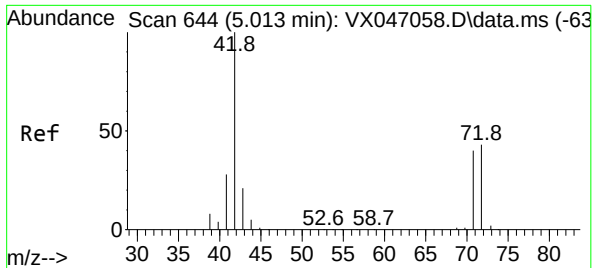
Tgt Ion:	84	Resp:	20364
Ion	Ratio	Lower	Upper
84	100		
49	125.4	101.6	152.4
51	39.9	30.3	45.5
86	57.0	50.6	75.8



#25
2-Butanone
Concen: 2.884 ug/l
RT: 4.593 min Scan# 575
Delta R.T. 0.031 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

Tgt Ion:	43	Resp:	5046
Ion	Ratio	Lower	Upper
43	100		
72	10.9	18.8	28.2#





#29

Tetrahydrofuran

Concen: 0.265 ug/l

RT: 5.032 min Scan# 644

Delta R.T. 0.019 min

Lab File: VX047271.D

Acq: 08 Aug 2025 15:09

Instrument :

MSVOA_X

ClientSampleId :

RT5414

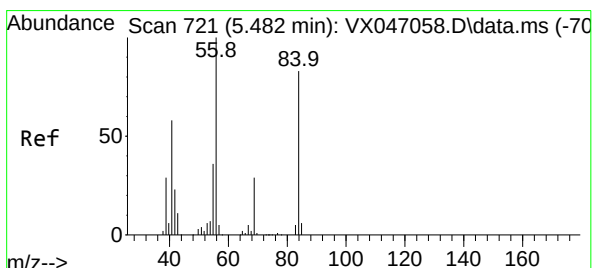
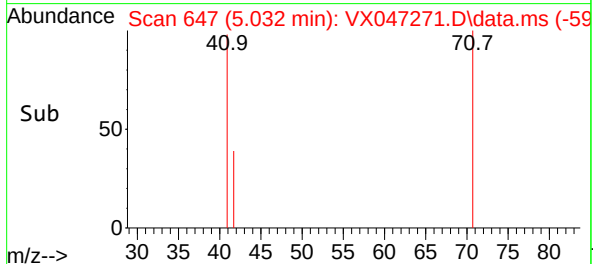
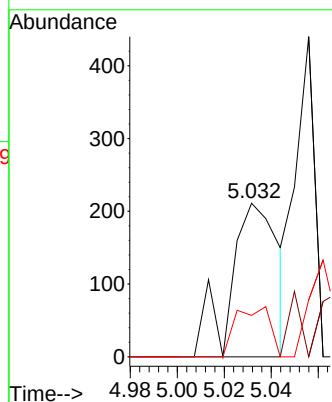
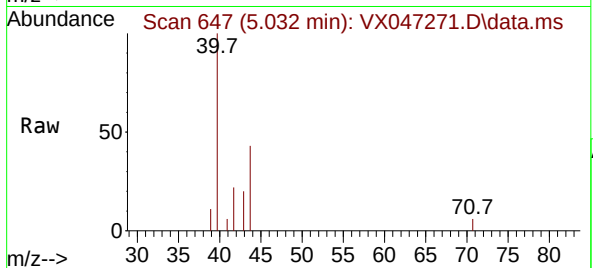
Tgt Ion: 42 Resp: 299

Ion Ratio Lower Upper

42 100

72 11.0 33.7 50.5#

71 23.4 31.0 46.4#



#31

Cyclohexane

Concen: 0.979 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.074 min

Lab File: VX047271.D

Acq: 08 Aug 2025 15:09

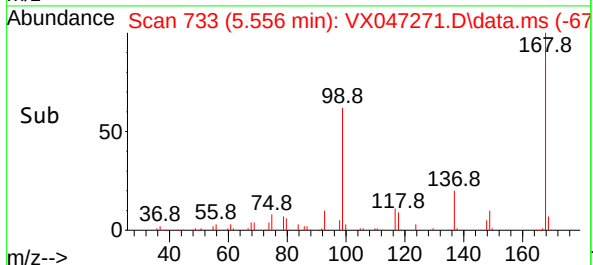
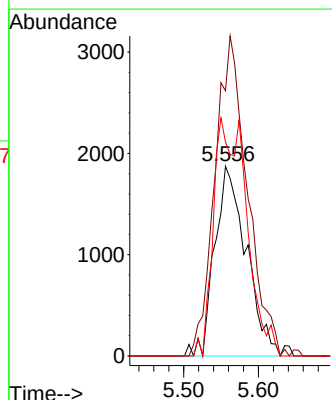
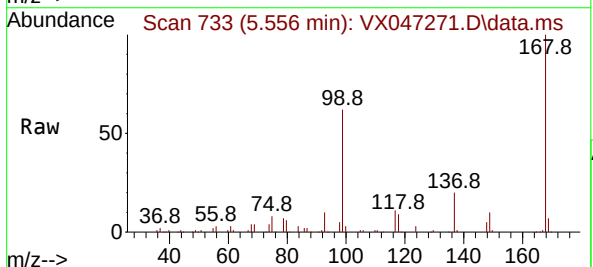
Tgt Ion: 56 Resp: 5490

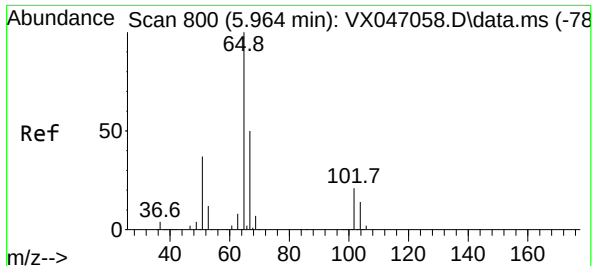
Ion Ratio Lower Upper

56 100

69 139.7 23.3 34.9#

84 112.8 66.5 99.7#





#33

1,2-Dichloroethane-d4

Concen: 48.637 ug/l

RT: 5.970 min Scan# 801

Delta R.T. 0.006 min

Lab File: VX047271.D

Acq: 08 Aug 2025 15:09

Instrument :

MSVOA_X

ClientSampleId :

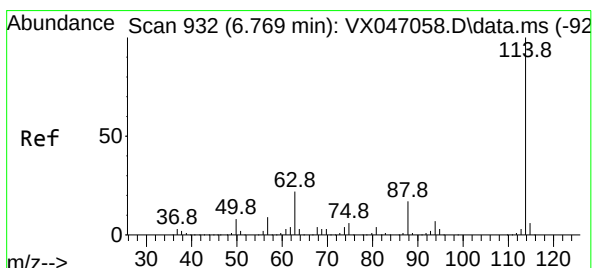
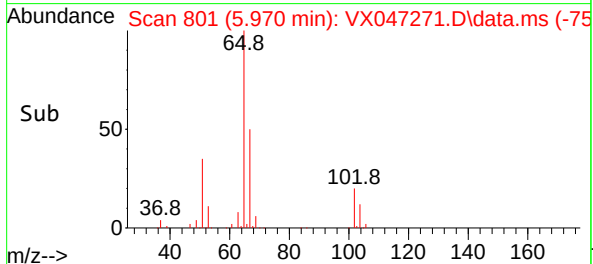
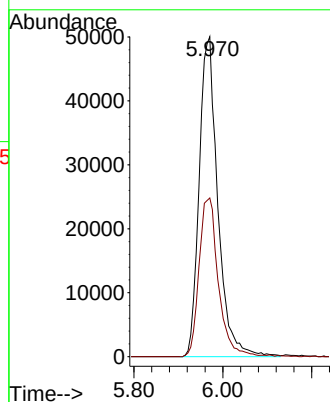
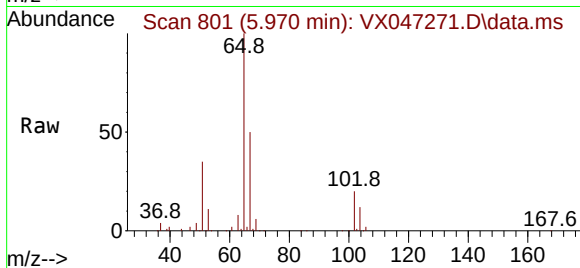
RT5414

Tgt Ion: 65 Resp: 145863

Ion Ratio Lower Upper

65 100

67 51.2 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: VX047271.D

Acq: 08 Aug 2025 15:09

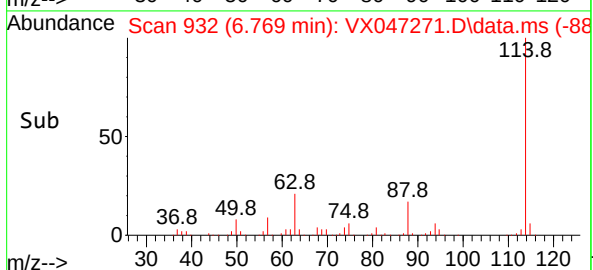
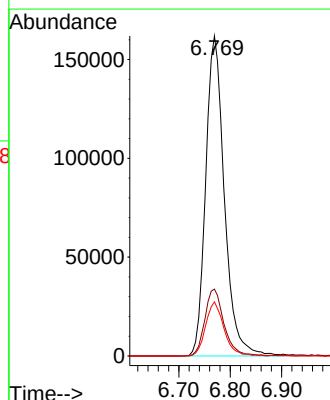
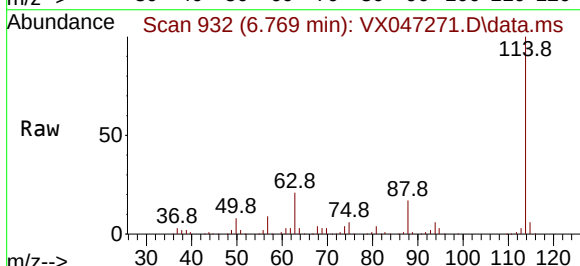
Tgt Ion: 114 Resp: 408701

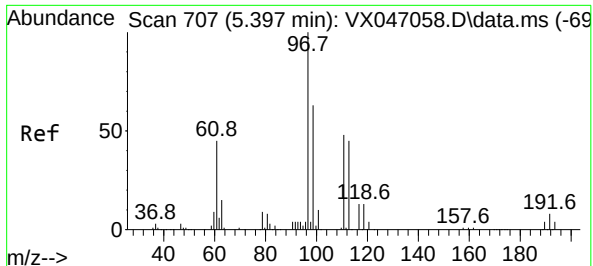
Ion Ratio Lower Upper

114 100

63 20.9 0.0 43.2

88 16.9 0.0 33.8

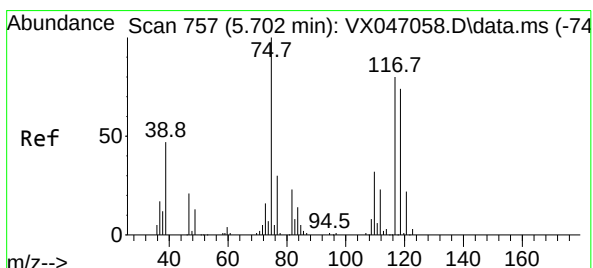
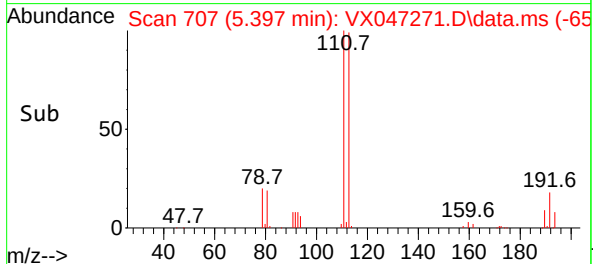
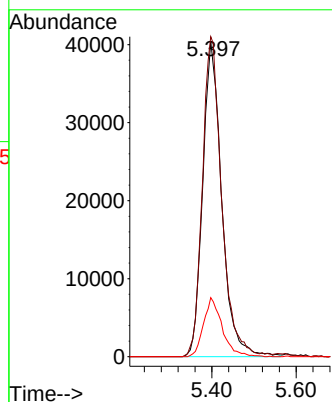
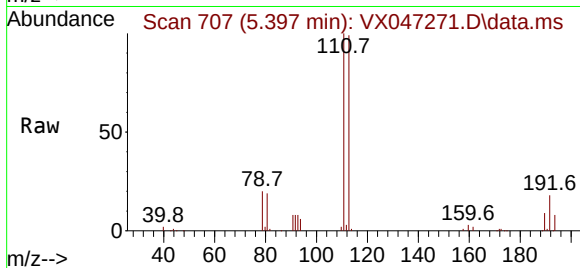




#35
Dibromofluoromethane
Concen: 50.327 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

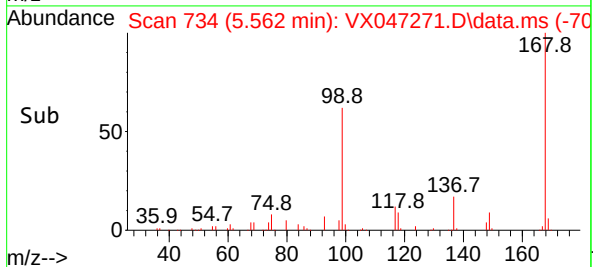
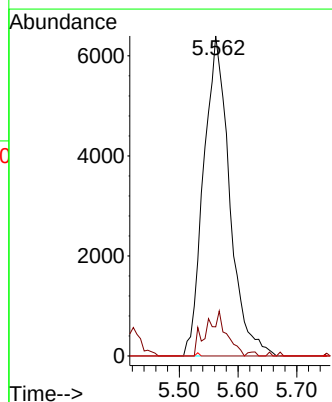
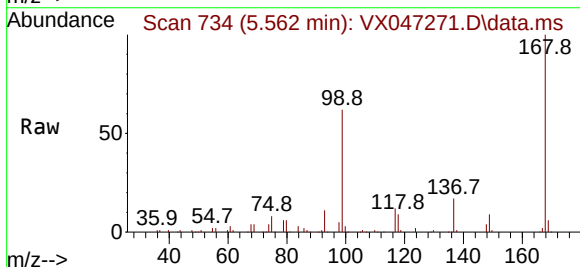
Instrument :
MSVOA_X
ClientSampleId :
RT5414

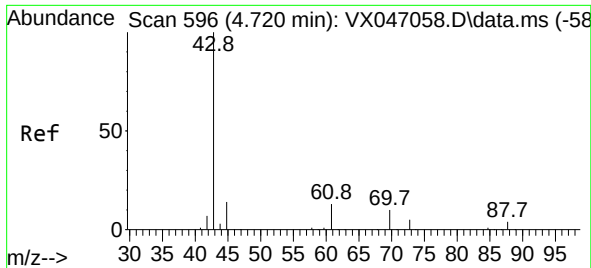
Tgt Ion:113 Resp: 126997
Ion Ratio Lower Upper
113 100
111 102.5 82.6 124.0
192 18.4 14.9 22.3



#36
1,1-Dichloropropene
Concen: 4.563 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.140 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

Tgt Ion: 75 Resp: 19627
Ion Ratio Lower Upper
75 100
110 10.9 17.2 51.5#
77 0.0 25.1 37.7#

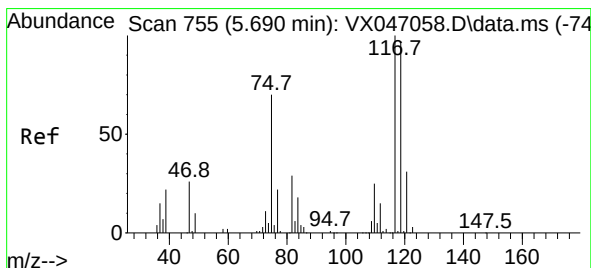
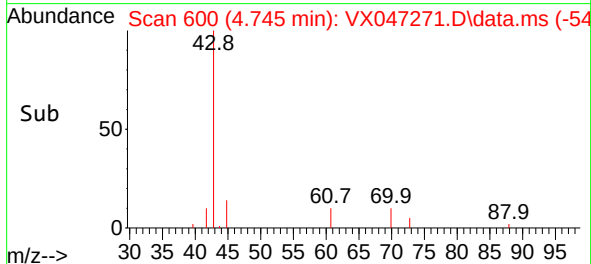
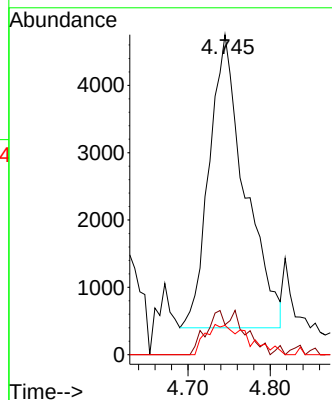
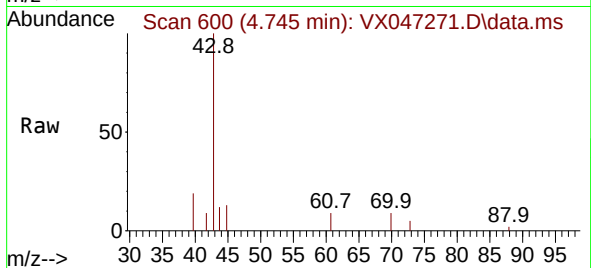




#37
Ethyl Acetate
Concen: 3.309 ug/l
RT: 4.745 min Scan# 600
Delta R.T. 0.025 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

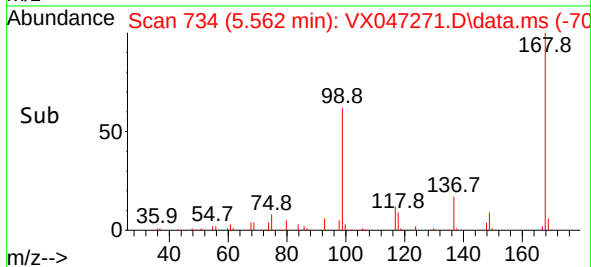
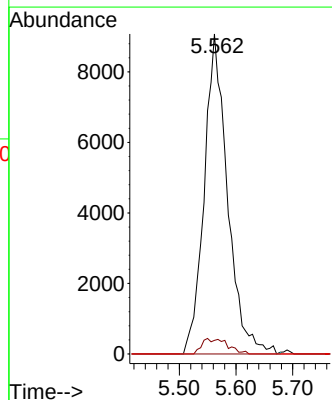
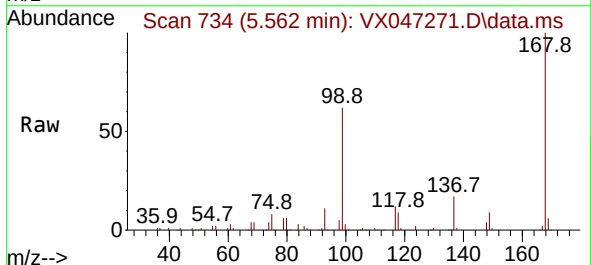
Instrument :
MSVOA_X
ClientSampleId :
RT5414

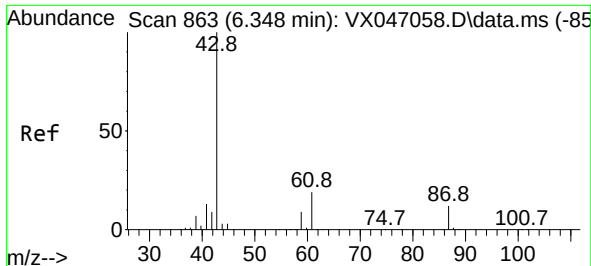
Tgt Ion: 43 Resp: 13115
Ion Ratio Lower Upper
43 100
61 8.0 10.2 15.2#
70 12.4 8.1 12.1#



#38
Carbon Tetrachloride
Concen: 5.647 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.128 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

Tgt Ion: 117 Resp: 25925
Ion Ratio Lower Upper
117 100
119 4.3 76.6 115.0#
121 0.0 24.4 36.6#

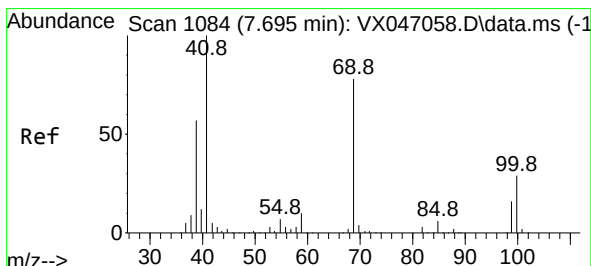
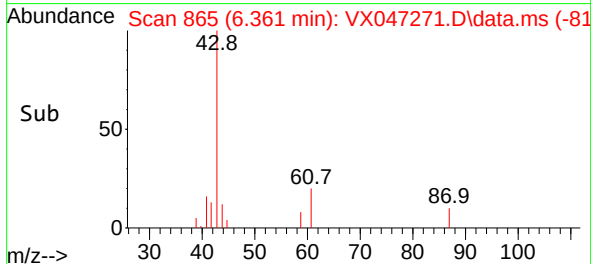
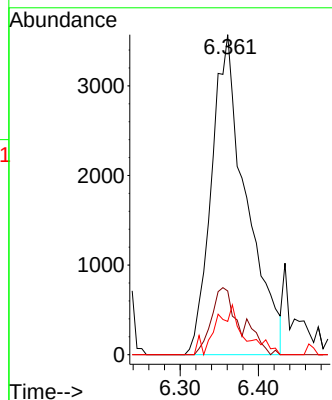
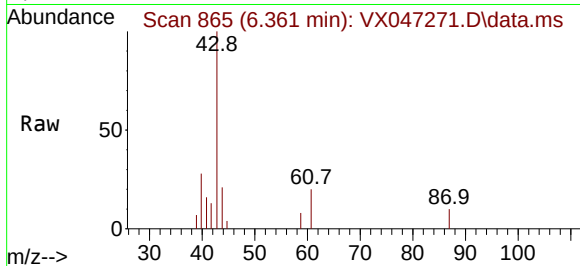




#43
Isopropyl Acetate
Concen: 1.777 ug/l
RT: 6.361 min Scan# 81
Delta R.T. 0.013 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

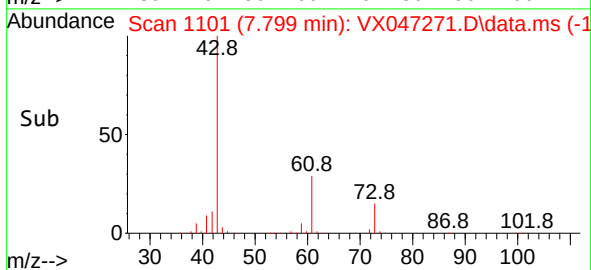
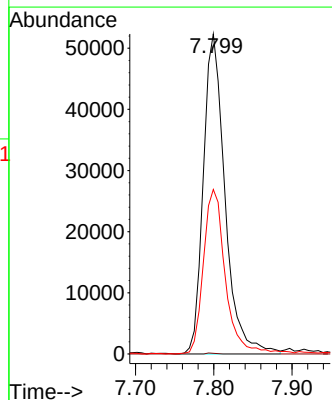
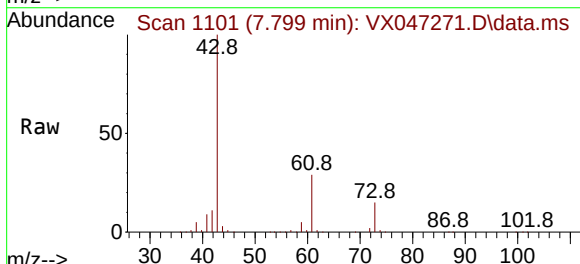
Instrument :
MSVOA_X
ClientSampleId :
RT5414

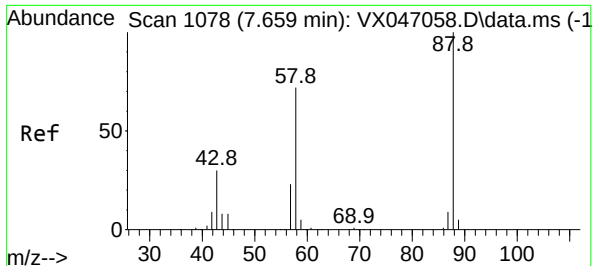
Tgt Ion: 43 Resp: 10983
Ion Ratio Lower Upper
43 100
61 13.9 15.1 22.7#
87 12.0 9.7 14.5



#48
Methyl methacrylate
Concen: 29.855 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.104 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

Tgt Ion: 41 Resp: 100496
Ion Ratio Lower Upper
41 100
69 0.1 62.3 93.5#
39 52.3 44.8 67.2





#49

1,4-Dioxane

Concen: 0.575 ug/l

RT: 7.787 min Scan# 1

Delta R.T. 0.128 min

Lab File: VX047271.D

Acq: 08 Aug 2025 15:09

Instrument :

MSVOA_X

ClientSampleId :

RT5414

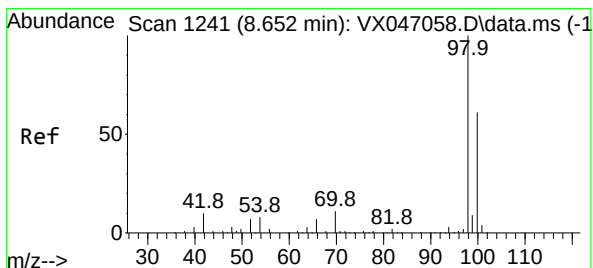
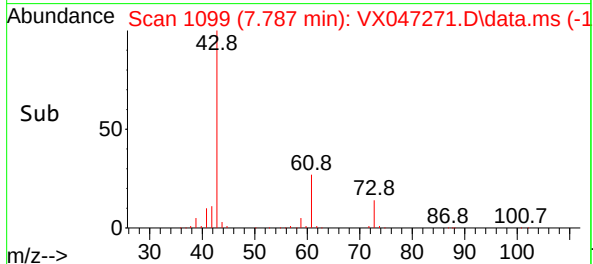
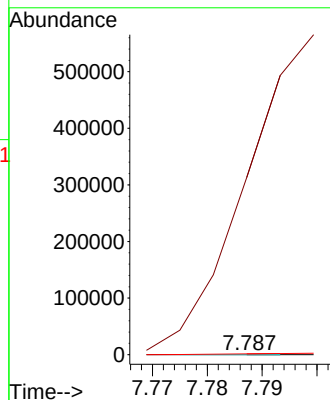
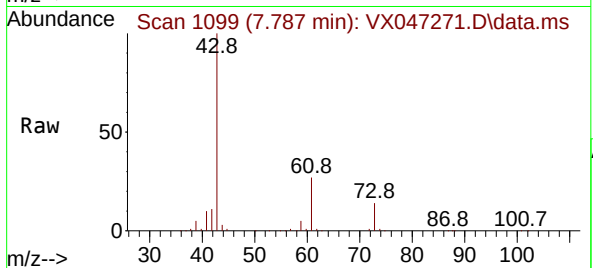
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 0.0 33.6 50.4#

58 0.0 58.8 88.2#



#50

Toluene-d8

Concen: 45.166 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX047271.D

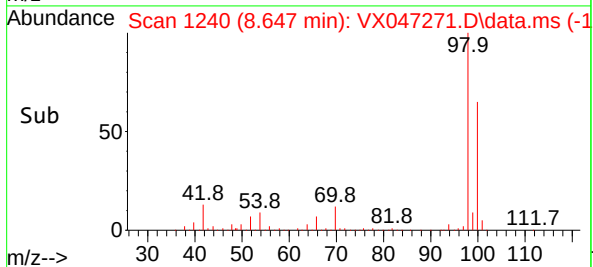
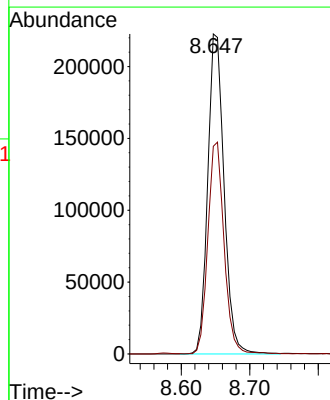
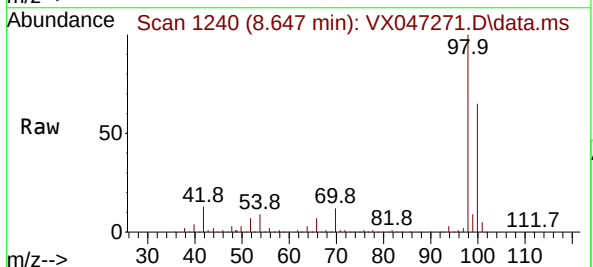
Acq: 08 Aug 2025 15:09

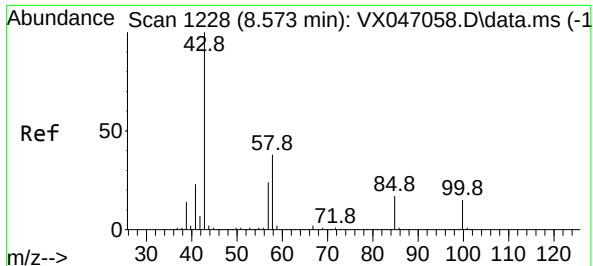
Tgt Ion: 98 Resp: 369101

Ion Ratio Lower Upper

98 100

100 65.8 53.3 79.9

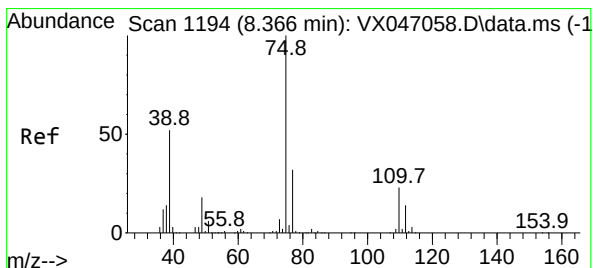
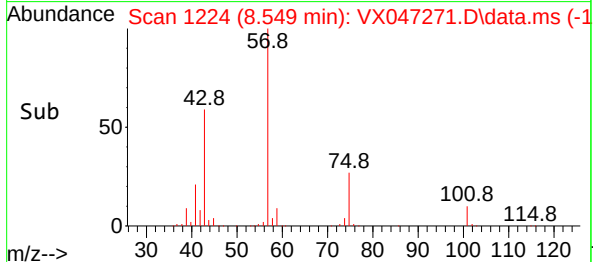
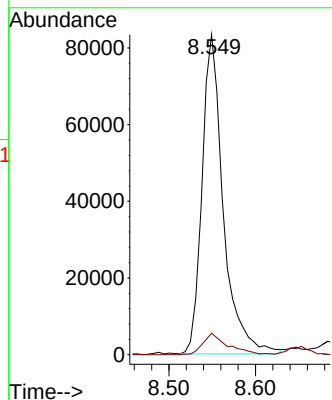
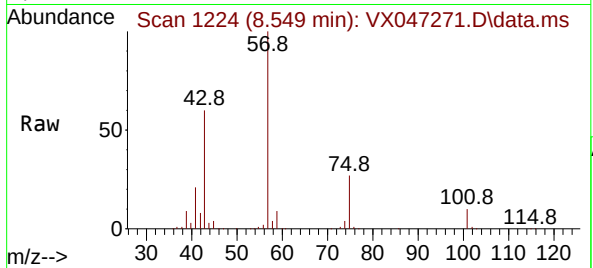




#51
4-Methyl-2-Pentanone
Concen: 38.606 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

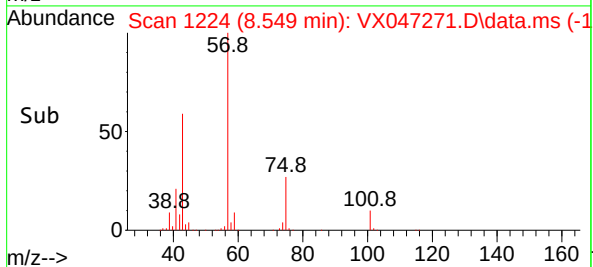
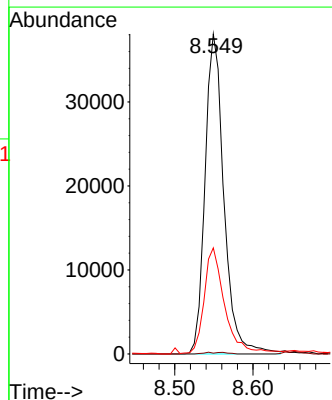
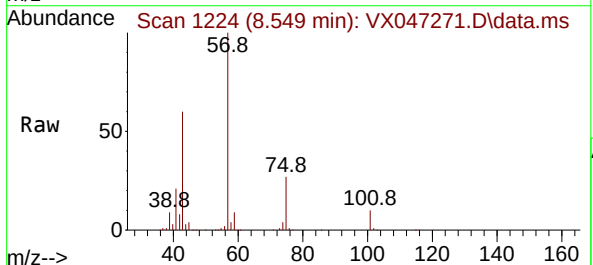
Instrument :
MSVOA_X
ClientSampleId :
RT5414

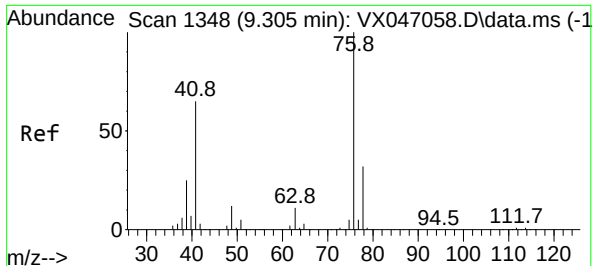
Tgt Ion: 43 Resp: 141793
Ion Ratio Lower Upper
43 100
58 7.8 30.6 45.8#



#54
cis-1,3-Dichloropropene
Concen: 13.227 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.183 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

Tgt Ion: 75 Resp: 63620
Ion Ratio Lower Upper
75 100
77 0.3 25.4 38.0#
39 33.0 41.8 62.6#





#57

1,3-Dichloropropane

Concen: 0.792 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.177 min

Lab File: VX047271.D

Acq: 08 Aug 2025 15:09

Instrument :

MSVOA_X

ClientSampleId :

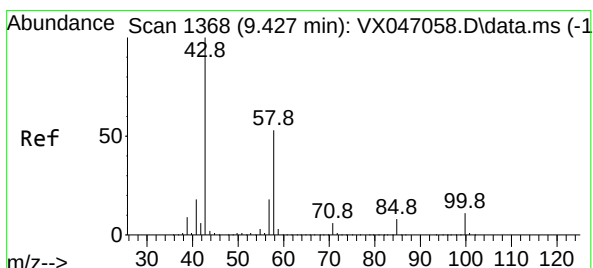
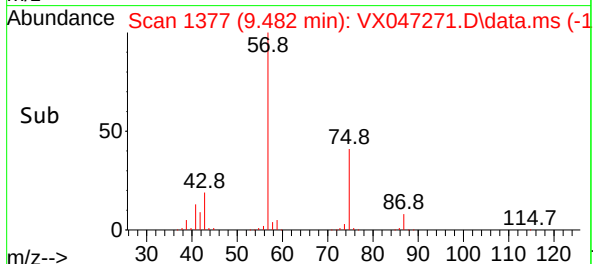
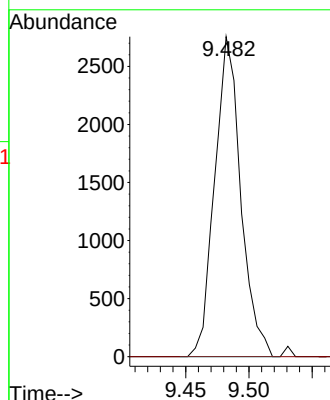
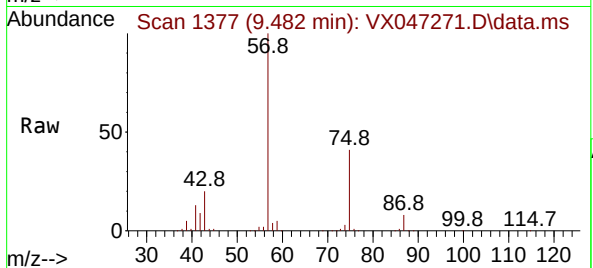
RT5414

Tgt Ion: 76 Resp: 3949

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 7.256 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.048 min

Lab File: VX047271.D

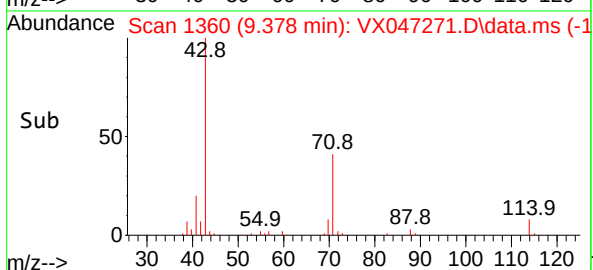
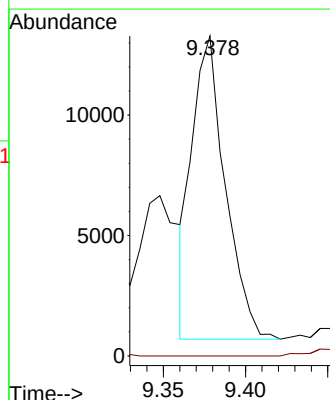
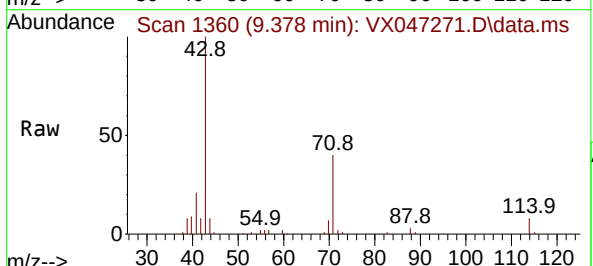
Acq: 08 Aug 2025 15:09

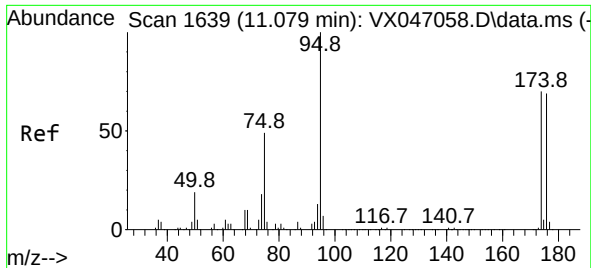
Tgt Ion: 43 Resp: 17607

Ion Ratio Lower Upper

43 100

58 0.0 26.5 79.5#

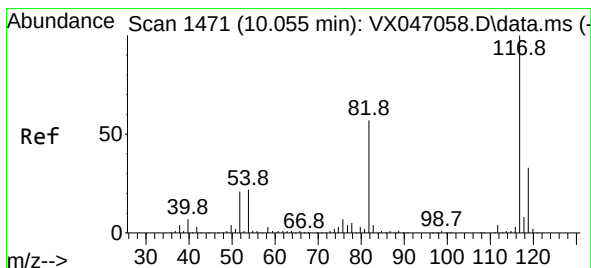
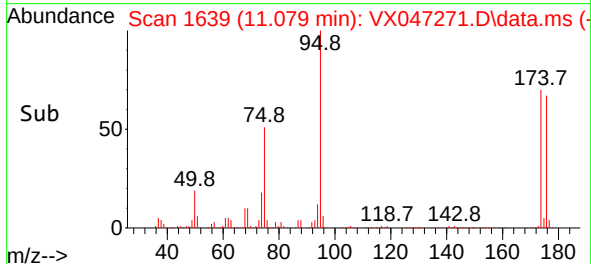
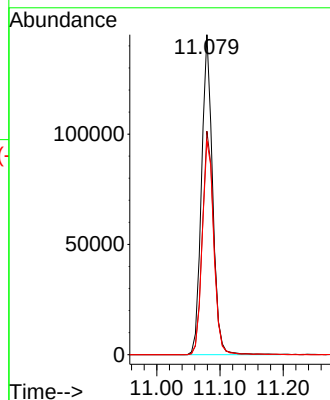
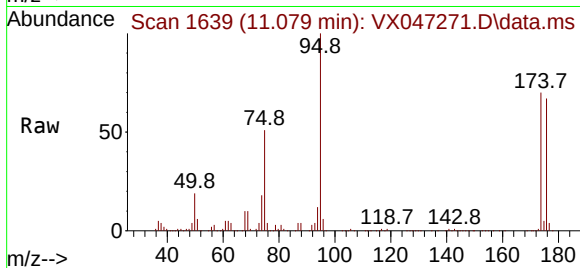




#62
4-Bromofluorobenzene
Concen: 50.099 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

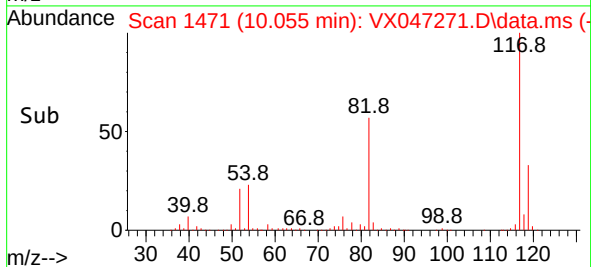
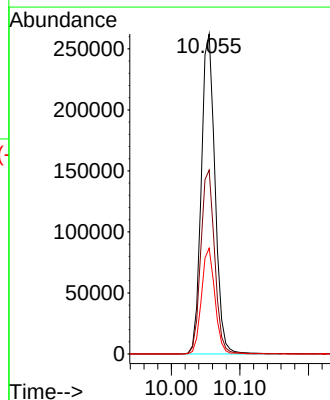
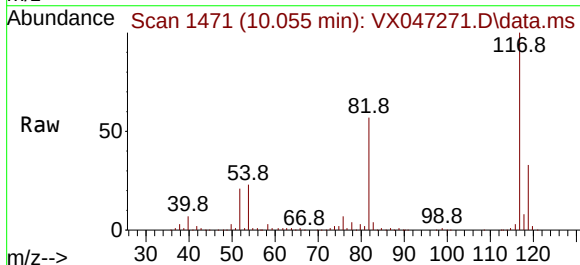
Instrument :
MSVOA_X
ClientSampleId :
RT5414

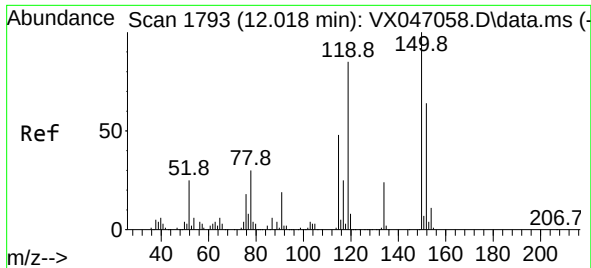
Tgt Ion: 95 Resp: 176437
Ion Ratio Lower Upper
95 100
174 72.2 0.0 144.6
176 69.9 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

Tgt Ion: 117 Resp: 365817
Ion Ratio Lower Upper
117 100
82 57.4 45.4 68.2
119 33.0 26.1 39.1

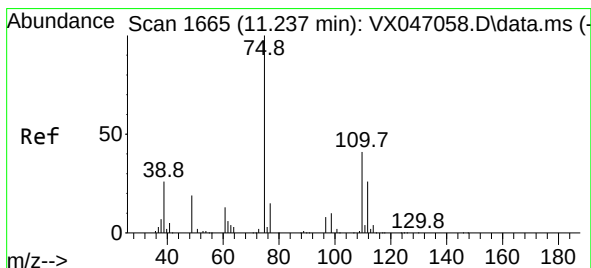
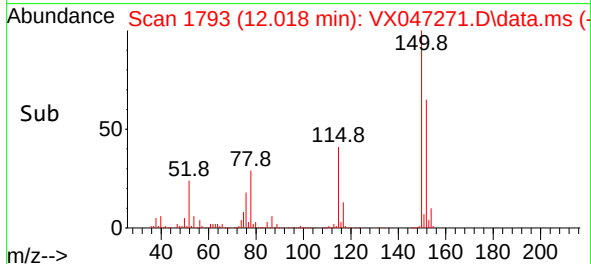
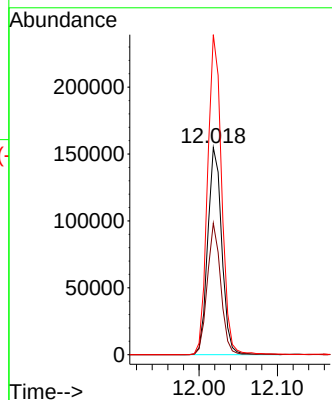
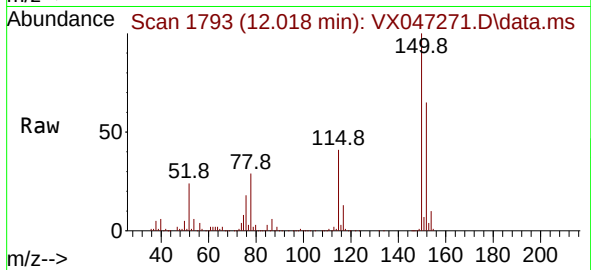




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX047271.D
 Acq: 08 Aug 2025 15:09

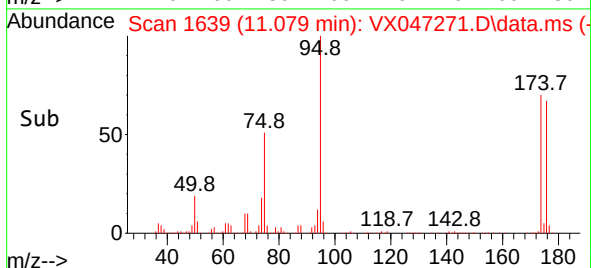
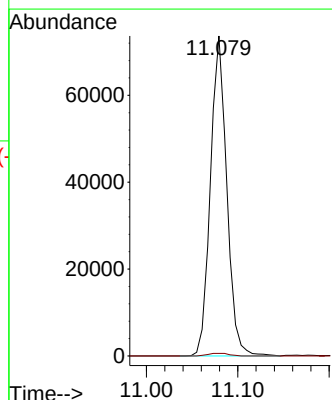
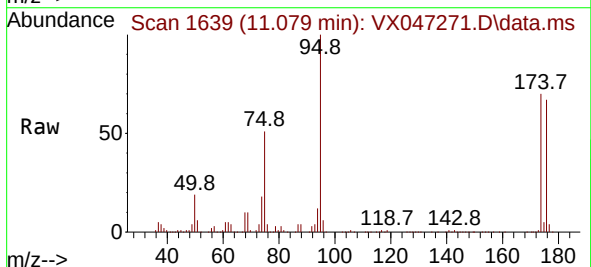
Instrument :
 MSVOA_X
 ClientSampleId :
 RT5414

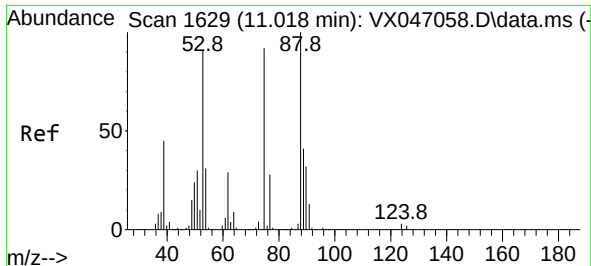
Tgt Ion:152 Resp: 191635
 Ion Ratio Lower Upper
 152 100
 115 61.2 45.6 136.7
 150 155.5 0.0 354.6



#76
 1,2,3-Trichloropropane
 Concen: 25.749 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.158 min
 Lab File: VX047271.D
 Acq: 08 Aug 2025 15:09

Tgt Ion: 75 Resp: 91335
 Ion Ratio Lower Upper
 75 100
 77 1.1 21.6 65.0#

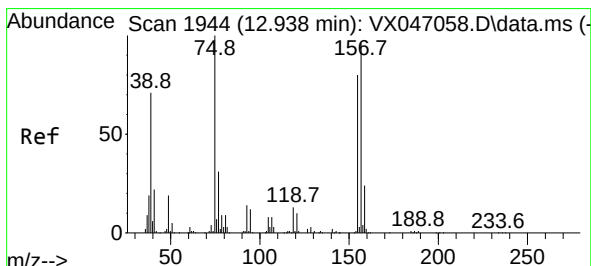
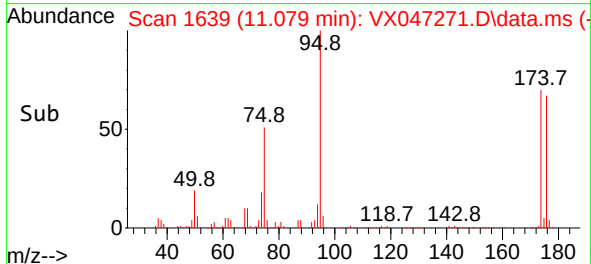
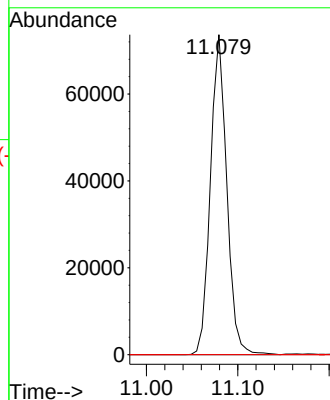
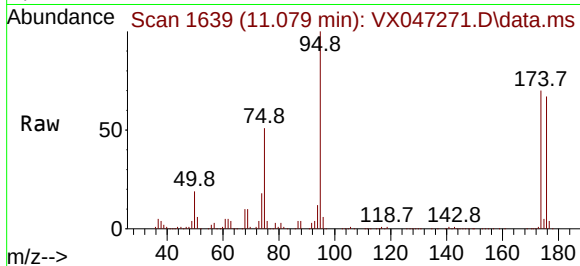




#81
trans-1,4-Dichloro-2-butene
Concen: 66.341 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

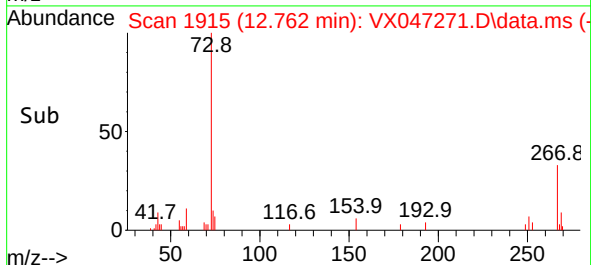
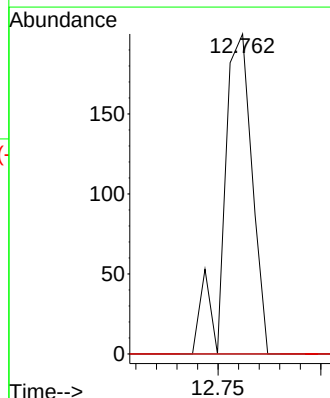
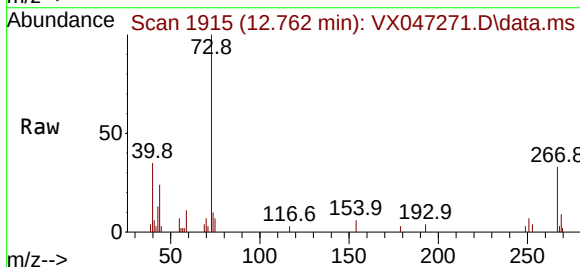
Instrument :
MSVOA_X
ClientSampleId :
RT5414

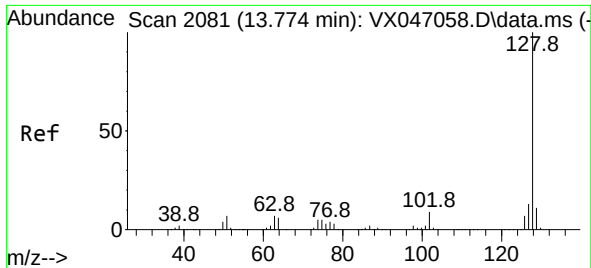
Tgt Ion: 75 Resp: 91335
Ion Ratio Lower Upper
75 100
53 0.0 84.2 126.4#
89 0.0 36.0 54.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.230 ug/l
RT: 12.762 min Scan# 1915
Delta R.T. -0.176 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

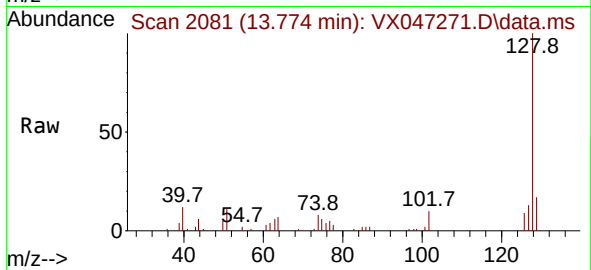
Tgt Ion: 75 Resp: 191
Ion Ratio Lower Upper
75 100
155 0.0 41.3 124.1#
157 0.0 52.8 158.3#





#95
Naphthalene
Concen: 0.887 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX047271.D
Acq: 08 Aug 2025 15:09

Instrument :
MSVOA_X
ClientSampleId :
RT5414



Tgt Ion:	128	Resp:	11309
Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.1	15.1
129	12.1	8.6	13.0

