

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071025\
 Data File : VX046950.D
 Acq On : 10 Jul 2025 17:12
 Operator : JC/MD
 Sample : Q2554-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 250709104-01 VOA

Quant Time: Jul 11 01:34:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

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

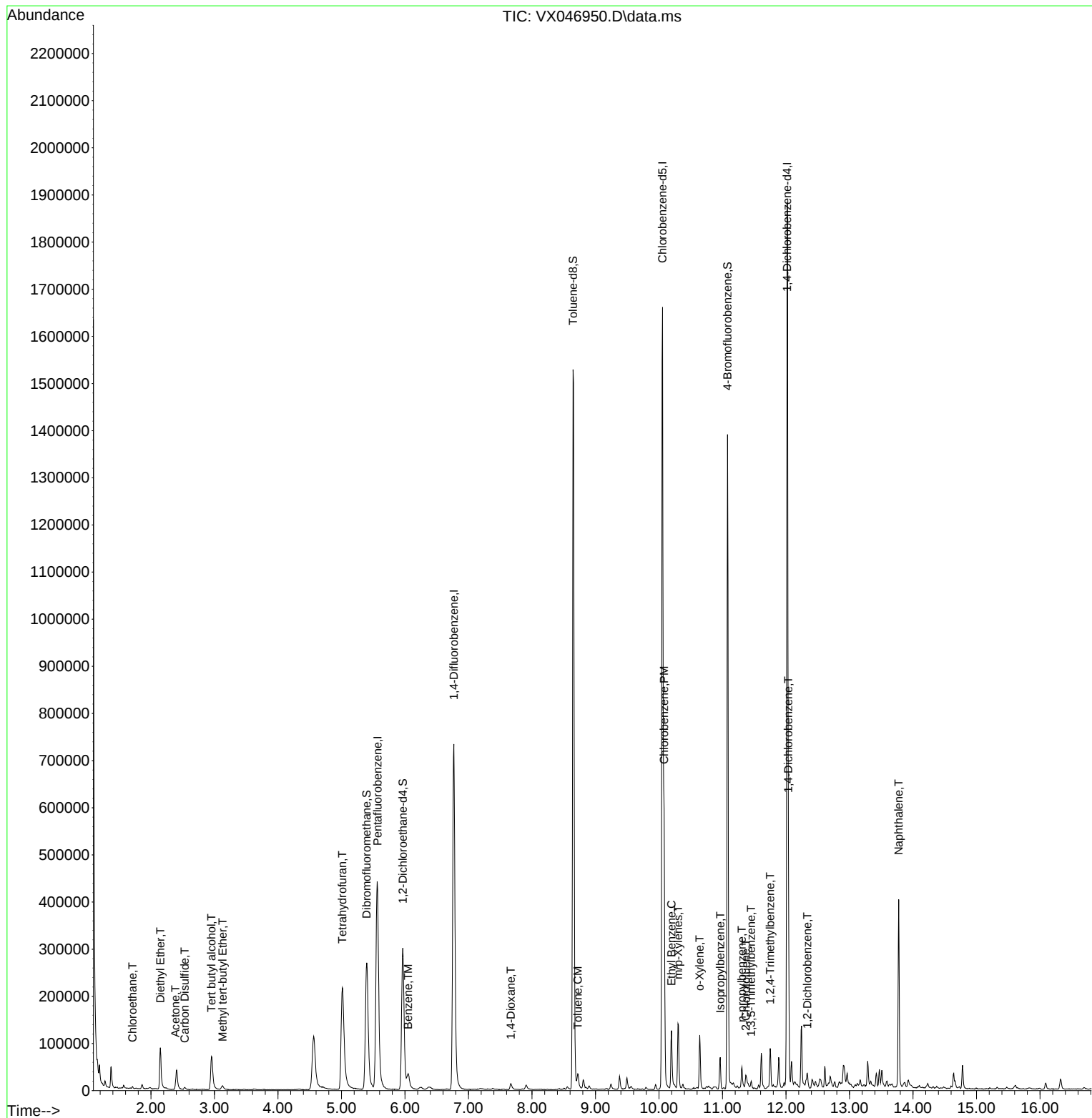
Internal Standards						
1) Pentafluorobenzene	5.568	168	454545	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	801050	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	733561	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	377959	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	307115	51.143	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.280%			
35) Dibromofluoromethane	5.398	113	258015	47.451	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.900%			
50) Toluene-d8	8.647	98	950258	49.532	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.060%			
62) 4-Bromofluorobenzene	11.079	95	367787	50.442	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.880%			
Target Compounds						Qvalue
6) Chloroethane	1.709	64	2510	0.735	ug/l #	86
8) Diethyl Ether	2.148	74	35457	12.459	ug/l	98
11) Tert butyl alcohol	2.953	59	86481	219.585	ug/l	100
16) Acetone	2.386	43	12066	6.469	ug/l	99
17) Carbon Disulfide	2.532	76	4363	0.338	ug/l	98
19) Methyl tert-butyl Ether	3.130	73	7469	0.537	ug/l #	86
29) Tetrahydrofuran	5.013	42	240907	151.858	ug/l	97
40) Benzene	6.050	78	36432	1.642	ug/l	92
49) 1,4-Dioxane	7.665	88	10719	187.193	ug/l	93
52) Toluene	8.720	92	9694	0.705	ug/l	94
65) Chlorobenzene	10.080	112	246260	15.527	ug/l	98
67) Ethyl Benzene	10.195	91	72385	2.665	ug/l	99
68) m/p-Xylenes	10.299	106	33101	3.234	ug/l	97
69) o-Xylene	10.640	106	24924	2.521	ug/l	100
73) Isopropylbenzene	10.964	105	33365	1.256	ug/l	97
78) n-propylbenzene	11.305	91	22415	0.700	ug/l	98
79) 2-Chlorotoluene	11.366	91	11698	0.618	ug/l	94
80) 1,3,5-Trimethylbenzene	11.451	105	6376	0.295	ug/l	95
84) 1,2,4-Trimethylbenzene	11.750	105	38440	1.762	ug/l	99
88) 1,4-Dichlorobenzene	12.037	146	99603	7.732	ug/l	96
91) 1,2-Dichlorobenzene	12.335	146	6759	0.564	ug/l	97
95) Naphthalene	13.774	128	244699	11.396	ug/l	100

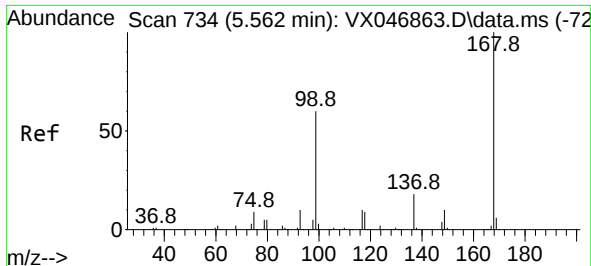
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 11 01:34:03 2025
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Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.568 min Scan# 71

Delta R.T. 0.006 min

Lab File: VX046950.D

Acq: 10 Jul 2025 17:12

Instrument :

MSVOA_X

ClientSampleId :

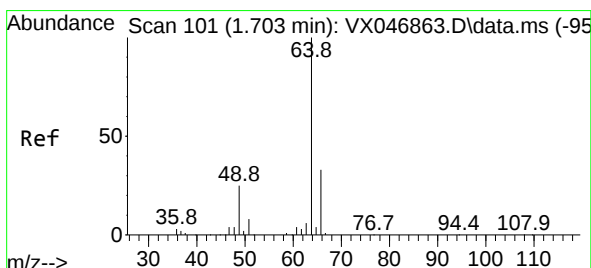
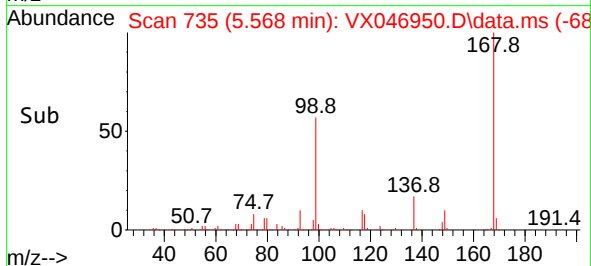
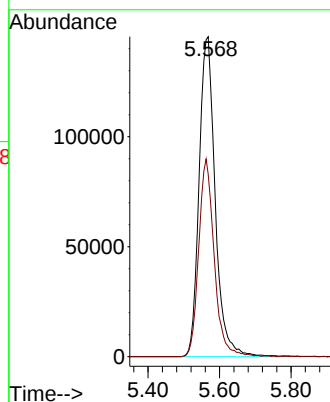
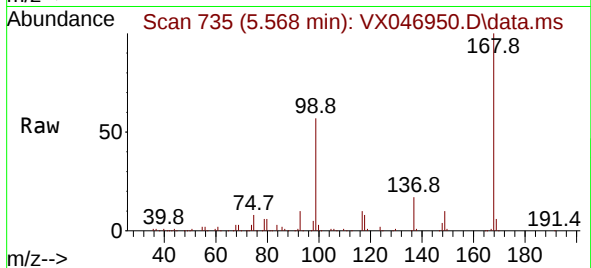
250709104-01 VOA

Tgt Ion:168 Resp: 454545

Ion Ratio Lower Upper

168 100

99 57.0 48.8 73.2



#6

Chloroethane

Concen: 0.735 ug/l

RT: 1.709 min Scan# 102

Delta R.T. 0.006 min

Lab File: VX046950.D

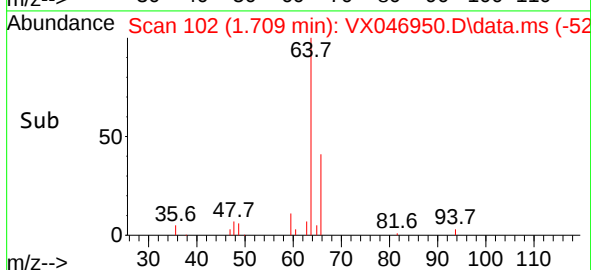
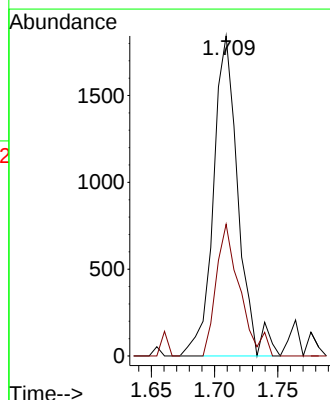
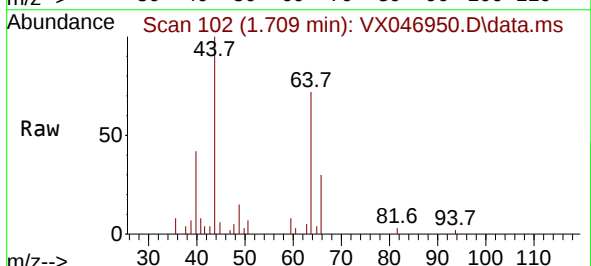
Acq: 10 Jul 2025 17:12

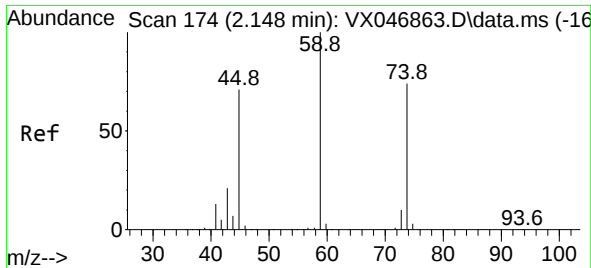
Tgt Ion: 64 Resp: 2510

Ion Ratio Lower Upper

64 100

66 41.2 26.4 39.6#

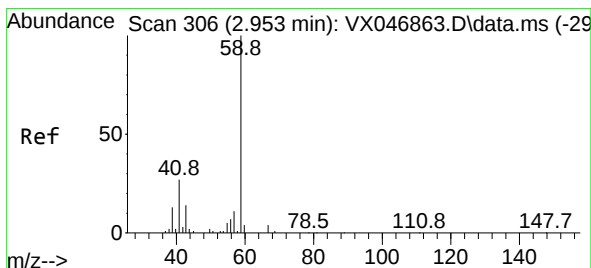
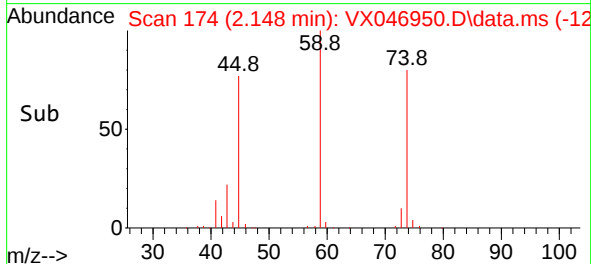
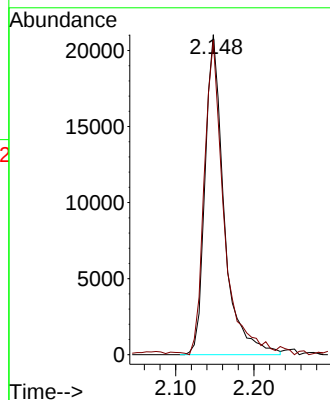
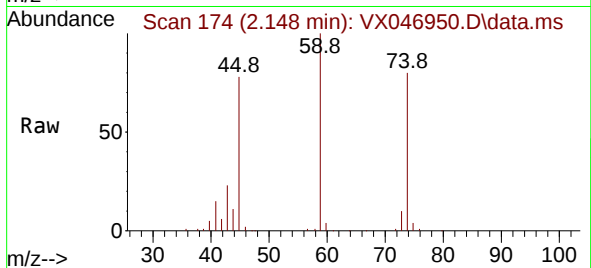




#8
Diethyl Ether
Concen: 12.459 ug/l
RT: 2.148 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

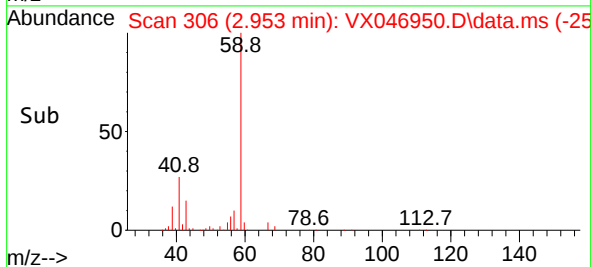
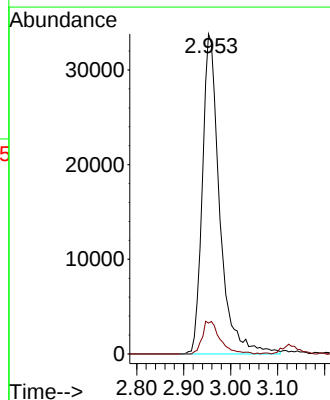
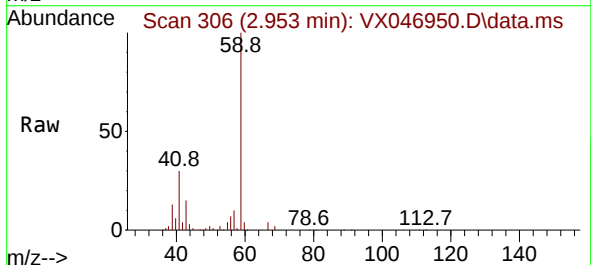
Instrument :
MSVOA_X
ClientSampleId :
250709104-01 VOA

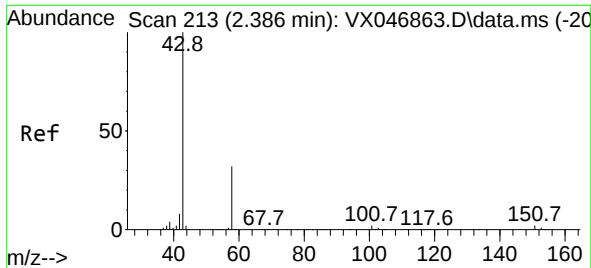
Tgt Ion: 74 Resp: 35457
Ion Ratio Lower Upper
74 100
45 99.5 50.7 152.1



#11
Tert butyl alcohol
Concen: 219.585 ug/l
RT: 2.953 min Scan# 306
Delta R.T. 0.000 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

Tgt Ion: 59 Resp: 86481
Ion Ratio Lower Upper
59 100
57 10.6 8.5 12.7

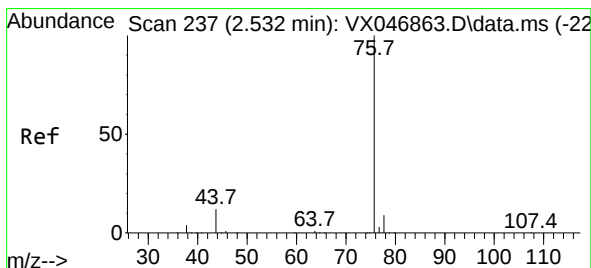
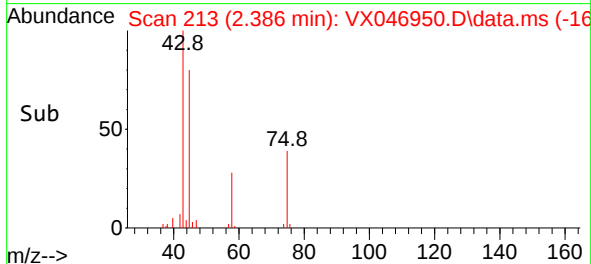
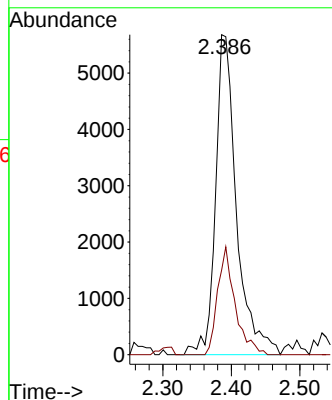
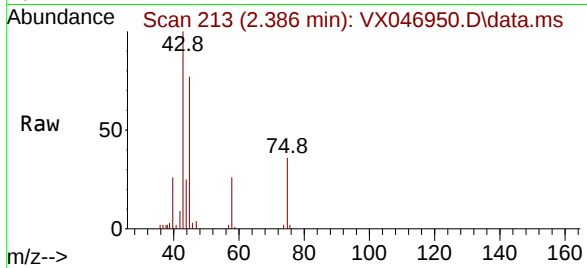




#16
Acetone
Concen: 6.469 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

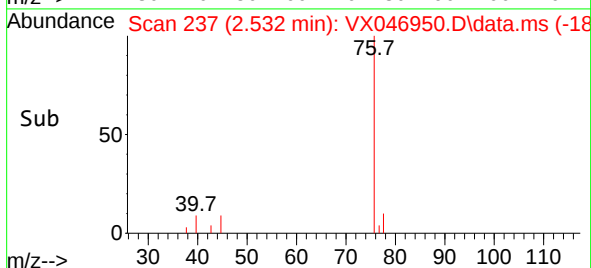
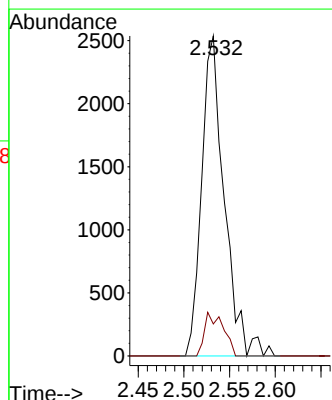
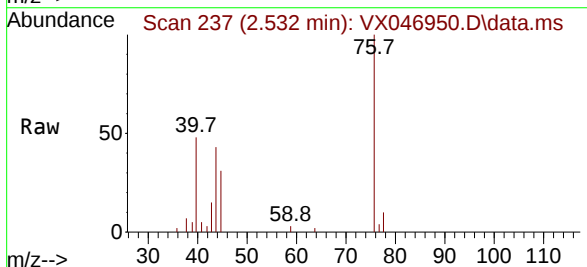
Instrument :
MSVOA_X
ClientSampleId :
250709104-01 VOA

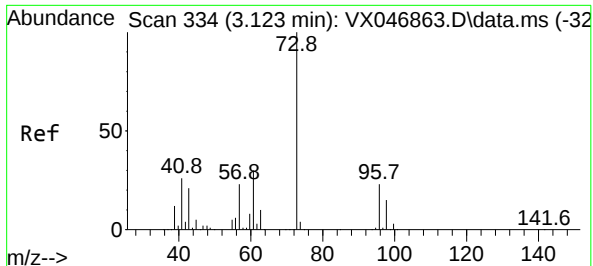
Tgt Ion: 43 Resp: 12066
Ion Ratio Lower Upper
43 100
58 31.8 25.8 38.6



#17
Carbon Disulfide
Concen: 0.338 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

Tgt Ion: 76 Resp: 4363
Ion Ratio Lower Upper
76 100
78 10.0 7.4 11.2

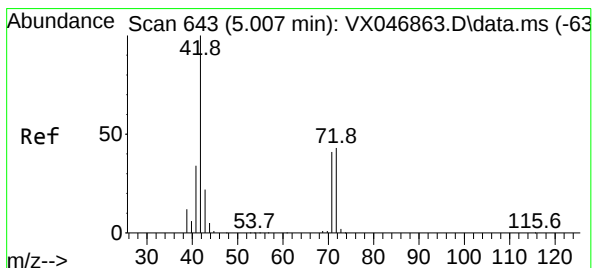
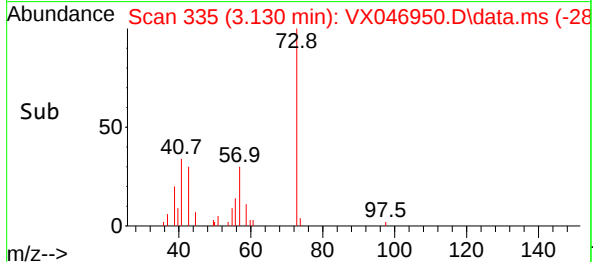
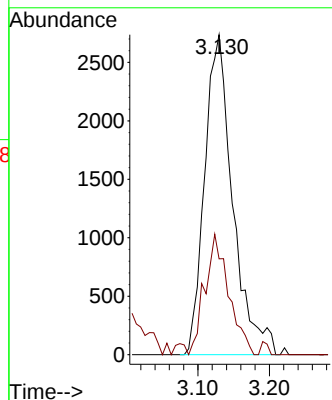
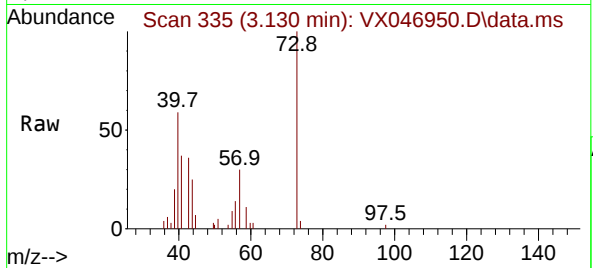




#19
Methyl tert-butyl Ether
Concen: 0.537 ug/l
RT: 3.130 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

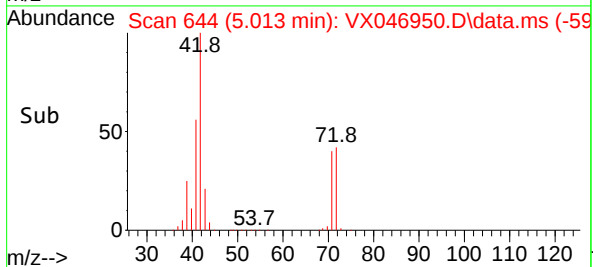
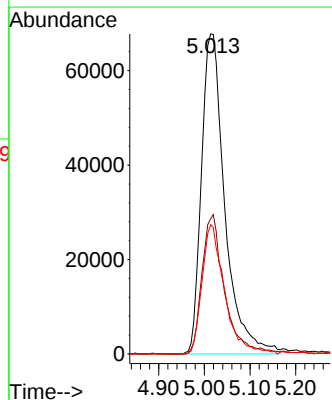
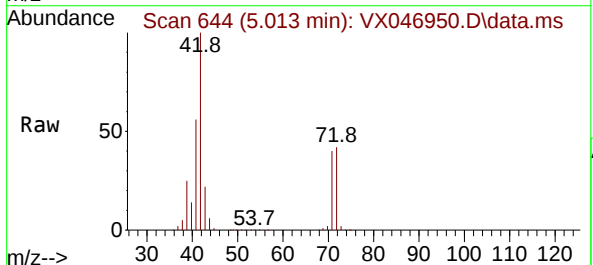
Instrument :
MSVOA_X
ClientSampleId :
250709104-01 VOA

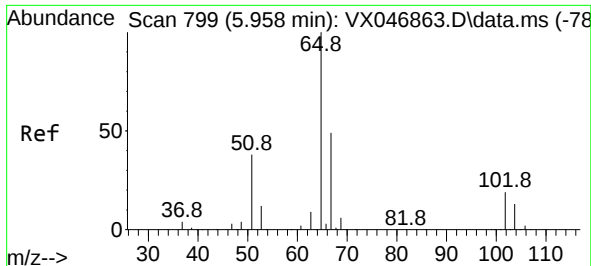
Tgt Ion: 73 Resp: 7469
Ion Ratio Lower Upper
73 100
57 30.0 18.6 28.0#



#29
Tetrahydrofuran
Concen: 151.858 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.006 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

Tgt Ion: 42 Resp: 240907
Ion Ratio Lower Upper
42 100
72 41.8 35.1 52.7
71 38.8 31.9 47.9

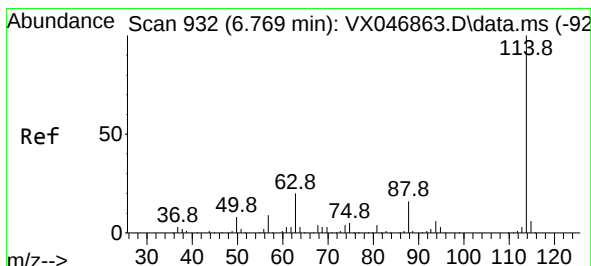
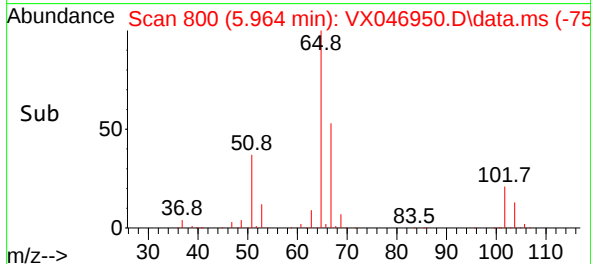
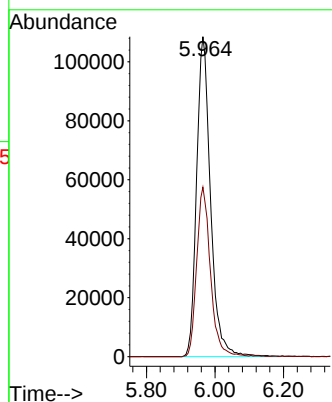
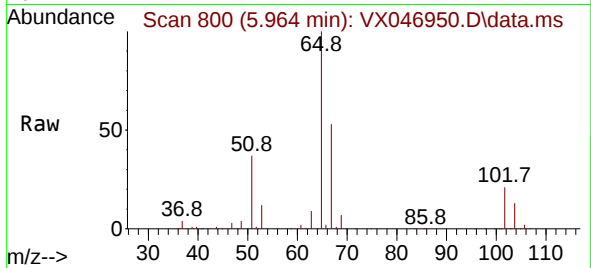




#33
 1,2-Dichloroethane-d4
 Concen: 51.143 ug/l
 RT: 5.964 min Scan# 80
 Delta R.T. 0.006 min
 Lab File: VX046950.D
 Acq: 10 Jul 2025 17:12

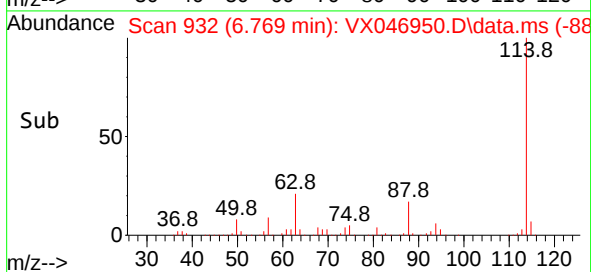
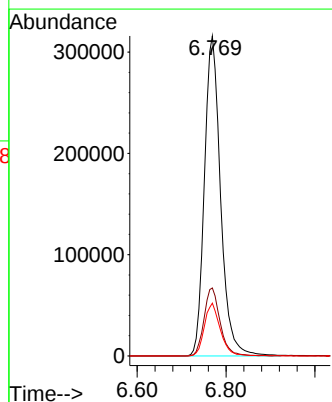
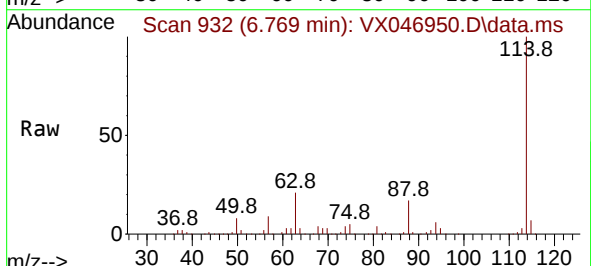
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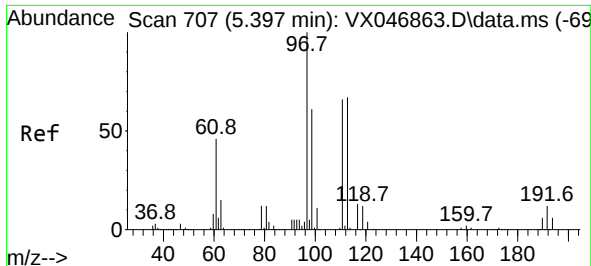
Tgt Ion: 65 Resp: 307115
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.769 min Scan# 932
 Delta R.T. 0.000 min
 Lab File: VX046950.D
 Acq: 10 Jul 2025 17:12

Tgt Ion: 114 Resp: 801050
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 40.4
 88 16.5 0.0 31.0

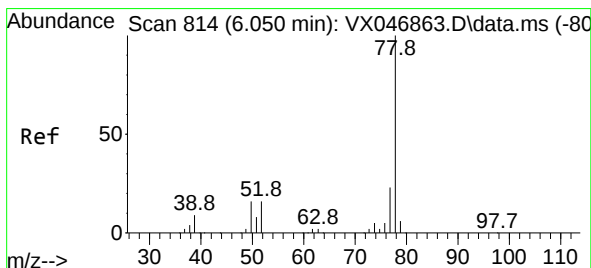
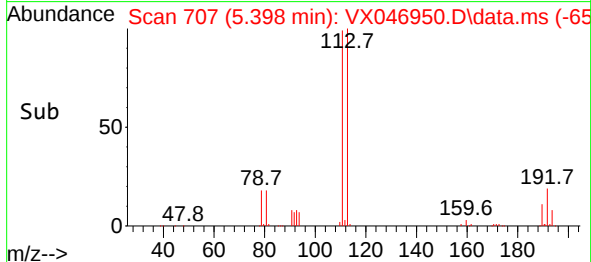
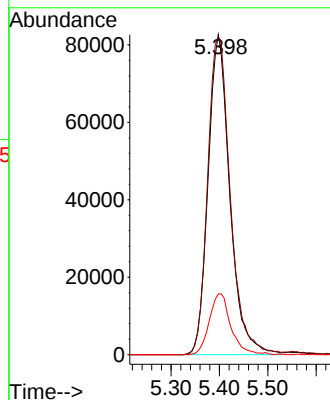
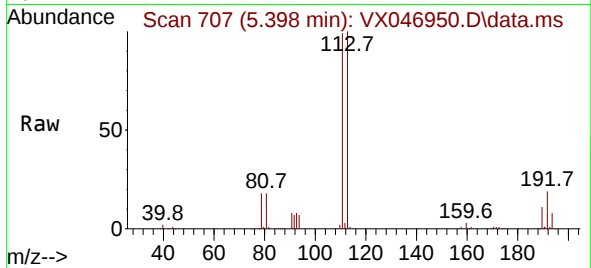




#35
Dibromofluoromethane
Concen: 47.451 ug/l
RT: 5.398 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

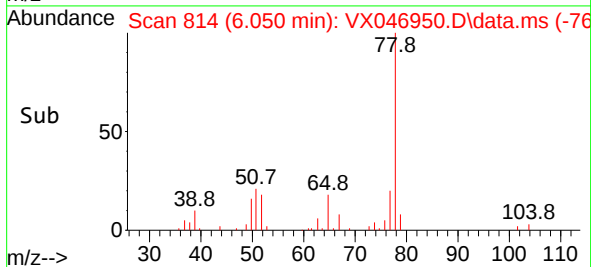
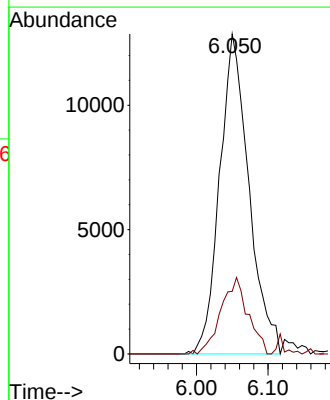
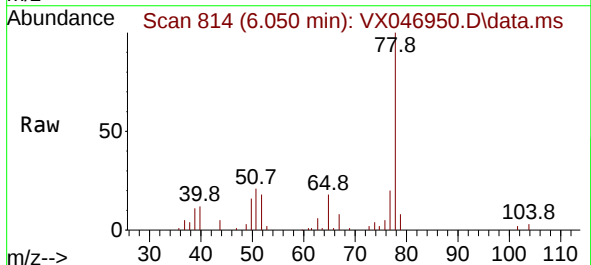
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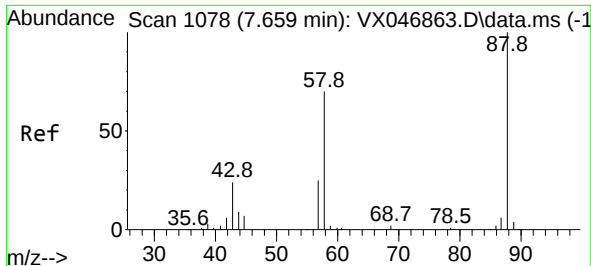
Tgt Ion:113 Resp: 258015
Ion Ratio Lower Upper
113 100
111 103.4 81.2 121.8
192 18.9 15.3 22.9



#40
Benzene
Concen: 1.642 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

Tgt Ion: 78 Resp: 36432
Ion Ratio Lower Upper
78 100
77 19.6 18.7 28.1





#49

1,4-Dioxane

Concen: 187.193 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX046950.D

Acq: 10 Jul 2025 17:12

Instrument :

MSVOA_X

ClientSampleId :

250709104-01 VOA

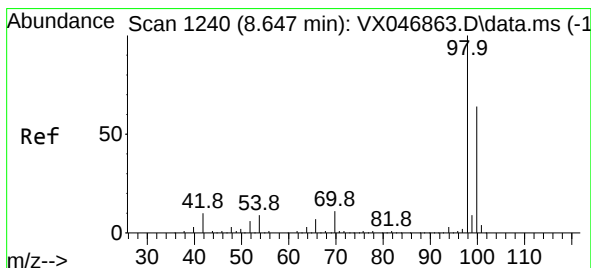
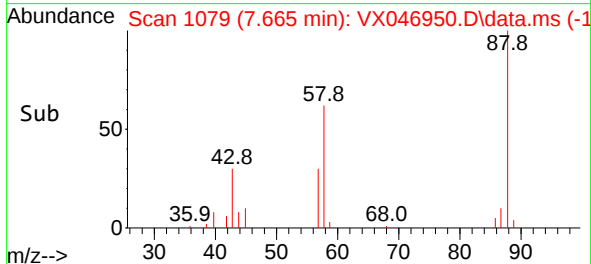
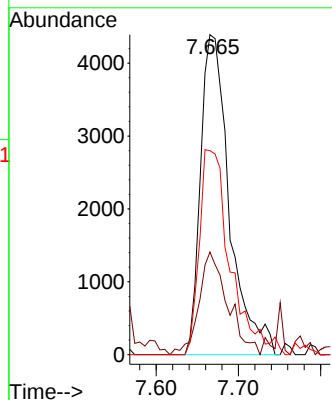
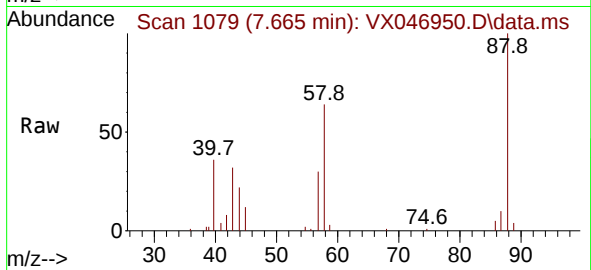
Tgt Ion: 88 Resp: 10719

Ion Ratio Lower Upper

88 100

43 31.9 31.7 47.5

58 68.2 57.5 86.3



#50

Toluene-d8

Concen: 49.532 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX046950.D

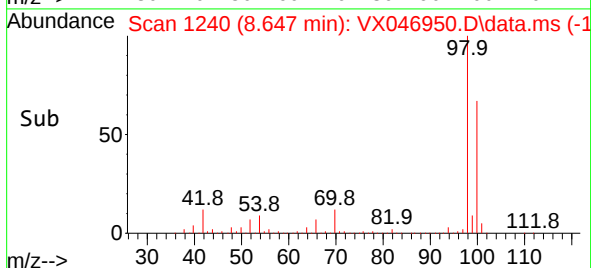
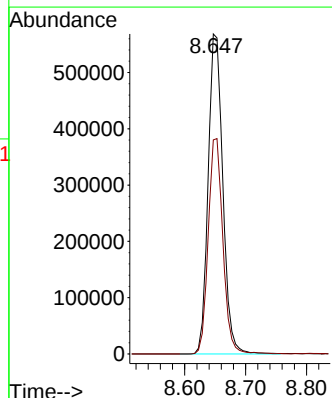
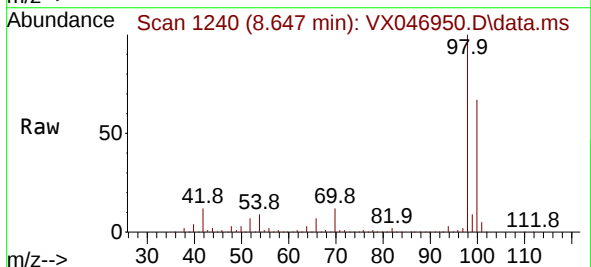
Acq: 10 Jul 2025 17:12

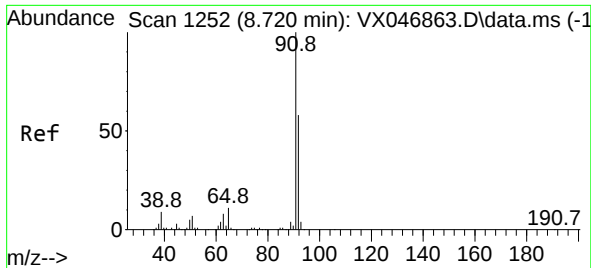
Tgt Ion: 98 Resp: 950258

Ion Ratio Lower Upper

98 100

100 67.4 53.0 79.6

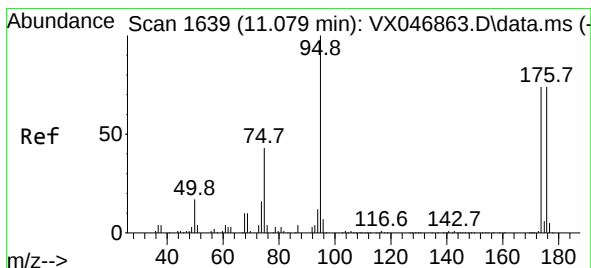
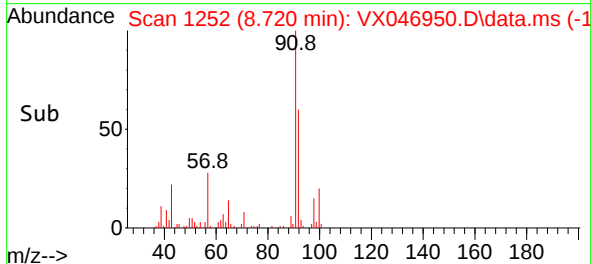
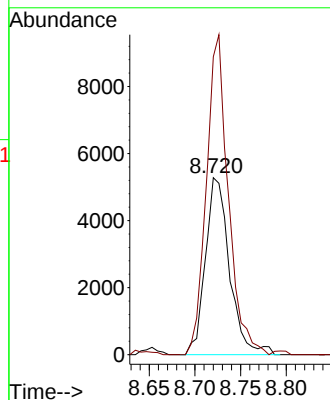
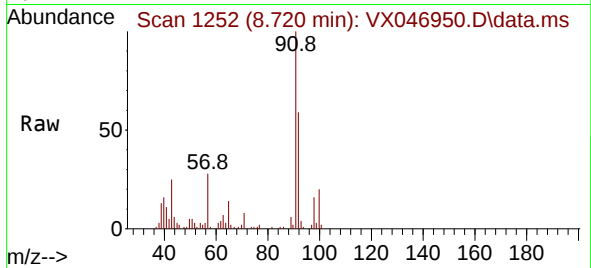




#52
Toluene
Concen: 0.705 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

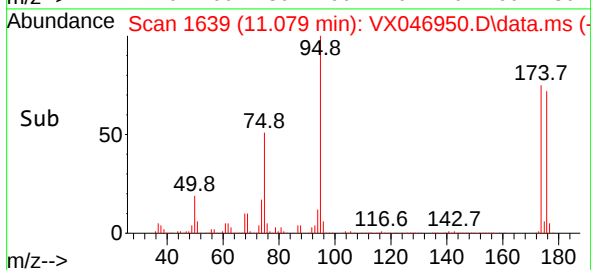
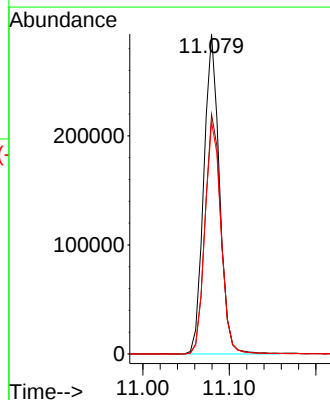
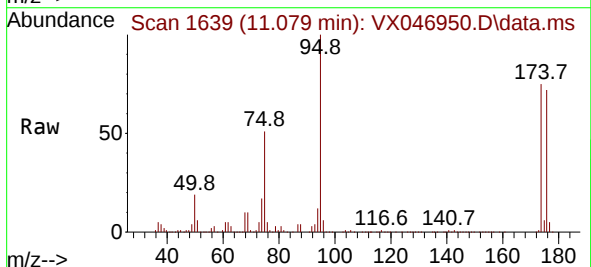
Instrument :
MSVOA_X
ClientSampleId :
250709104-01 VOA

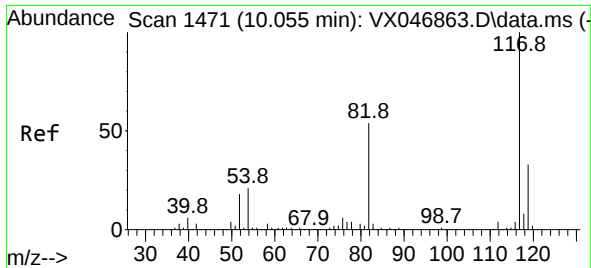
Tgt Ion: 92 Resp: 9694
Ion Ratio Lower Upper
92 100
91 164.3 137.9 206.9



#62
4-Bromofluorobenzene
Concen: 50.442 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

Tgt Ion: 95 Resp: 367787
Ion Ratio Lower Upper
95 100
174 76.4 0.0 152.0
176 74.8 0.0 145.2

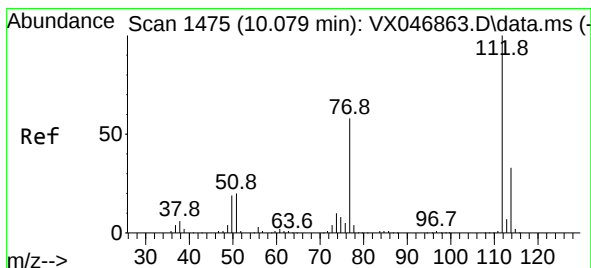
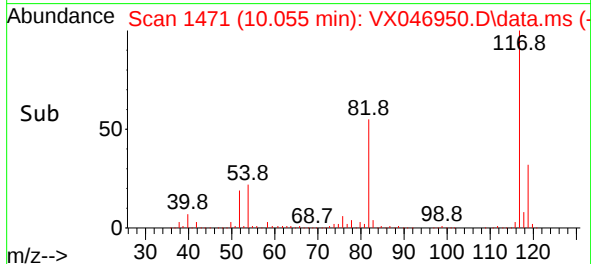
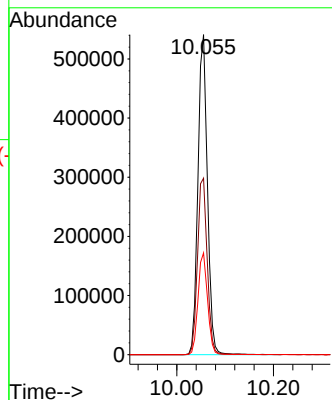
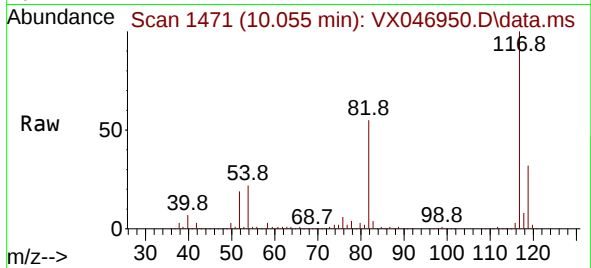




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

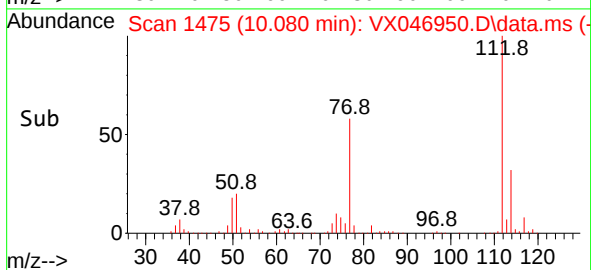
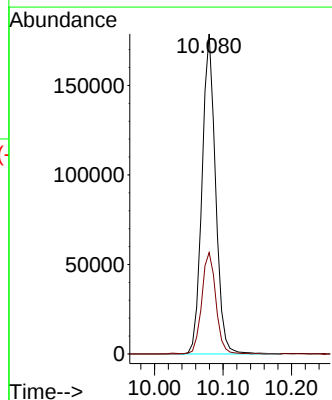
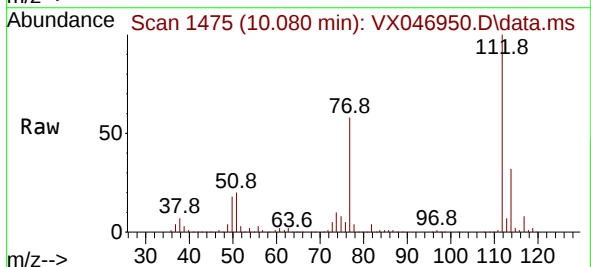
Instrument :
MSVOA_X
ClientSampleId :
250709104-01 VOA

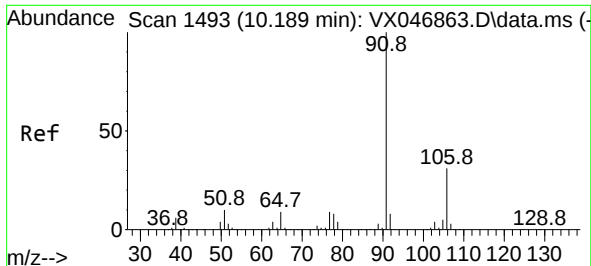
Tgt Ion:117 Resp: 733561
Ion Ratio Lower Upper
117 100
82 55.2 43.3 64.9
119 31.8 26.4 39.6



#65
Chlorobenzene
Concen: 15.527 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

Tgt Ion:112 Resp: 246260
Ion Ratio Lower Upper
112 100
114 31.7 26.3 39.5





#67

Ethyl Benzene

Concen: 2.665 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX046950.D

Acq: 10 Jul 2025 17:12

Instrument :

MSVOA_X

ClientSampleId :

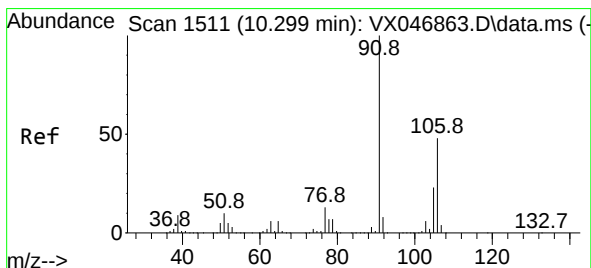
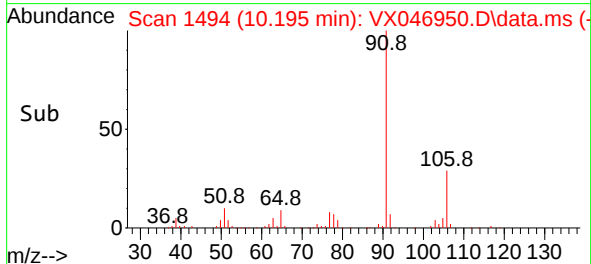
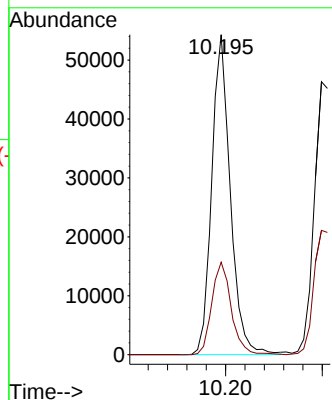
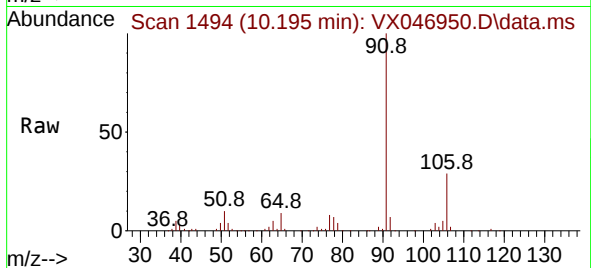
250709104-01 VOA

Tgt Ion: 91 Resp: 72385

Ion Ratio Lower Upper

91 100

106 31.2 24.4 36.6



#68

m/p-Xylenes

Concen: 3.234 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX046950.D

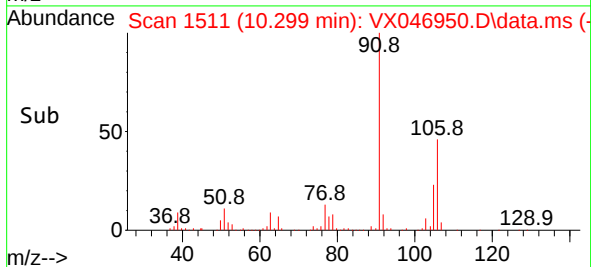
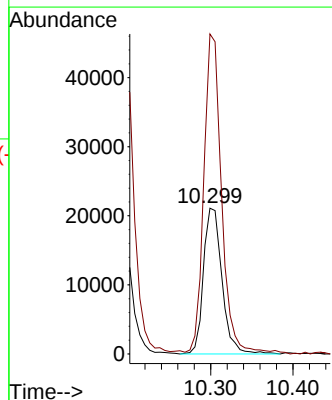
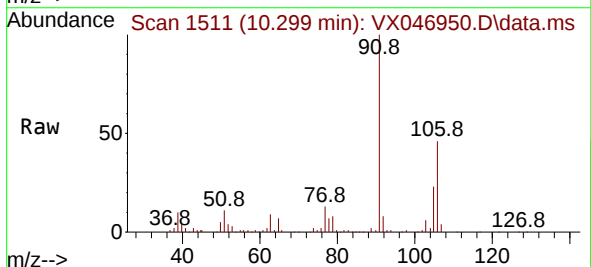
Acq: 10 Jul 2025 17:12

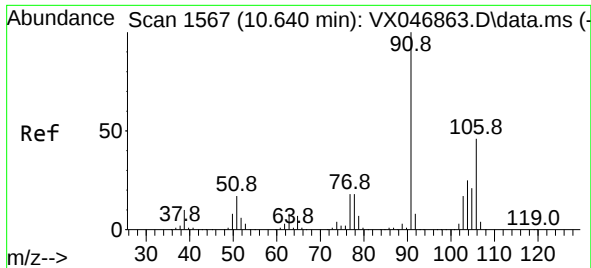
Tgt Ion: 106 Resp: 33101

Ion Ratio Lower Upper

106 100

91 211.0 164.6 246.8

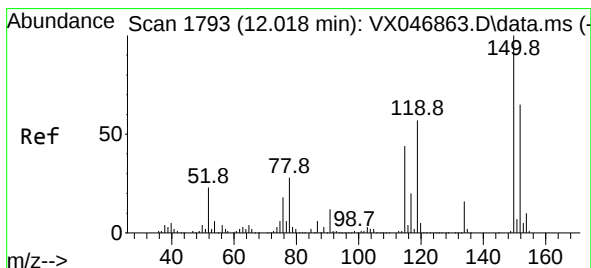
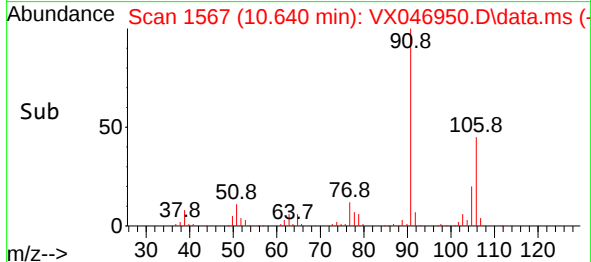
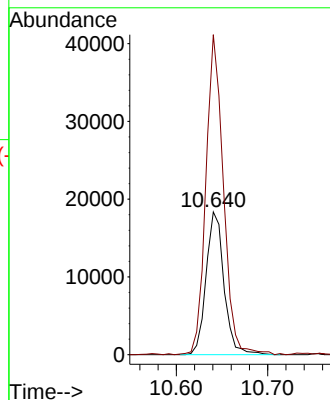
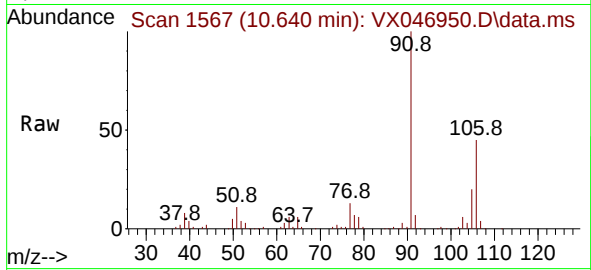




#69
o-Xylene
Concen: 2.521 ug/l
RT: 10.640 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

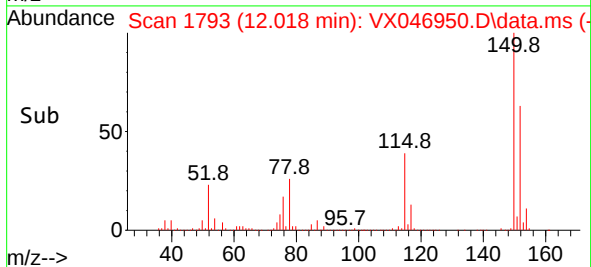
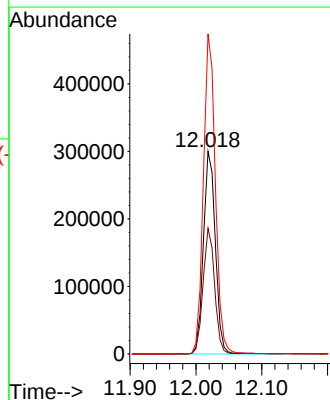
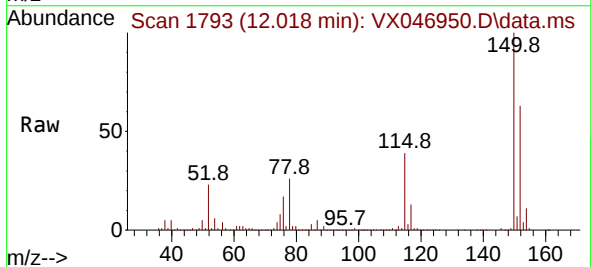
Instrument :
MSVOA_X
ClientSampleId :
250709104-01 VOA

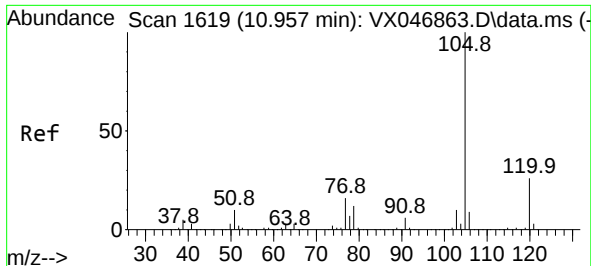
Tgt Ion:106 Resp: 24924
Ion Ratio Lower Upper
106 100
91 219.4 109.5 328.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

Tgt Ion:152 Resp: 377959
Ion Ratio Lower Upper
152 100
115 60.2 42.4 127.1
150 158.8 0.0 349.2

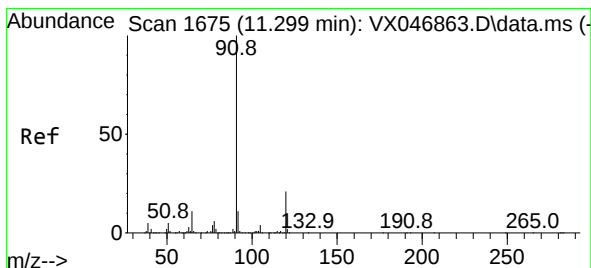
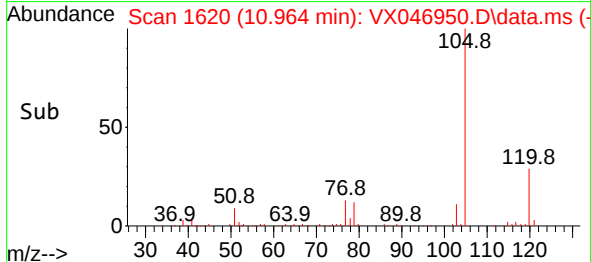
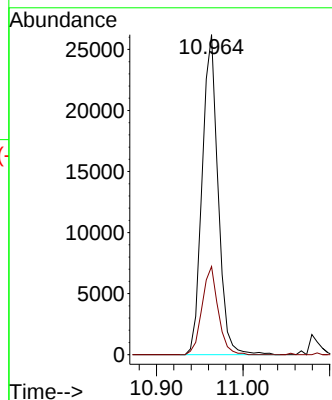
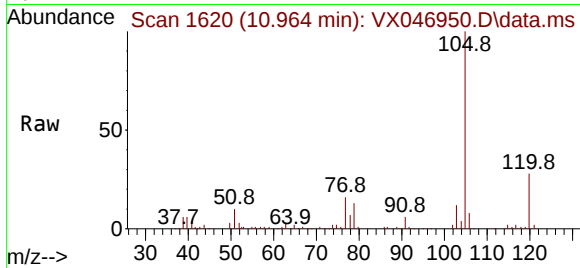




#73
Isopropylbenzene
Concen: 1.256 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

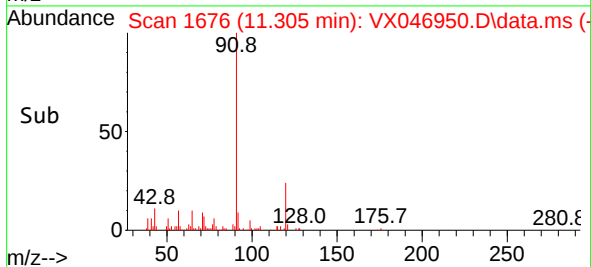
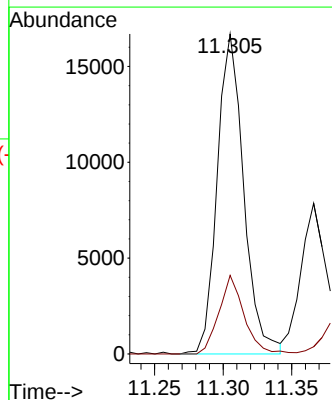
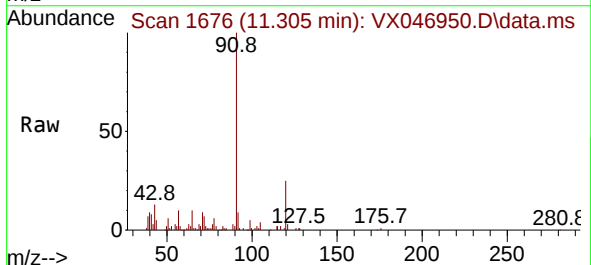
Instrument :
MSVOA_X
ClientSampleId :
250709104-01 VOA

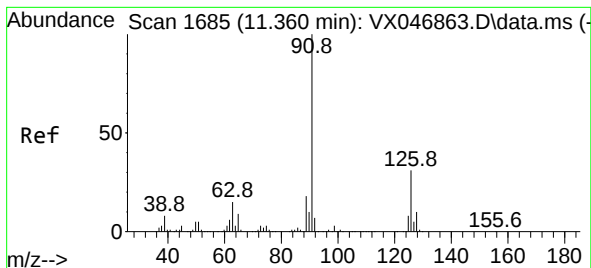
Tgt Ion:105 Resp: 33365
Ion Ratio Lower Upper
105 100
120 27.9 13.2 39.5



#78
n-propylbenzene
Concen: 0.700 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

Tgt Ion: 91 Resp: 22415
Ion Ratio Lower Upper
91 100
120 23.4 11.2 33.5





#79

2-Chlorotoluene

Concen: 0.618 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX046950.D

Acq: 10 Jul 2025 17:12

Instrument :

MSVOA_X

ClientSampleId :

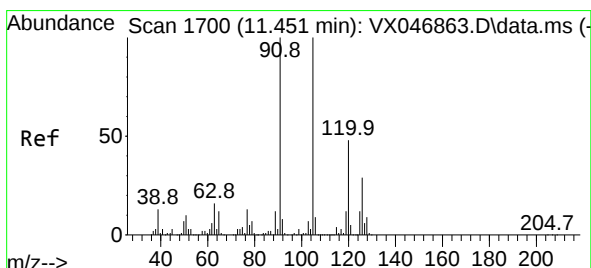
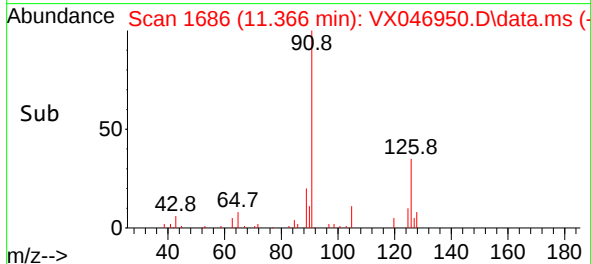
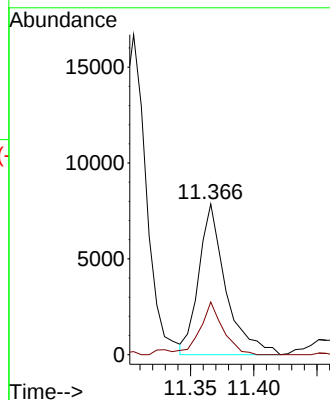
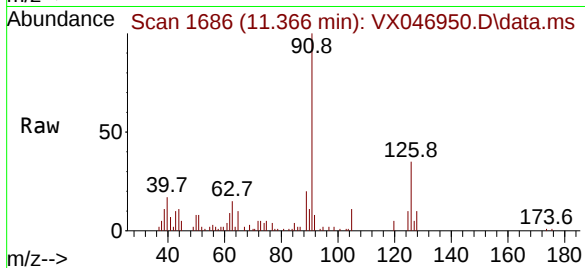
250709104-01 VOA

Tgt Ion: 91 Resp: 11698

Ion Ratio Lower Upper

91 100

126 29.6 16.6 49.8



#80

1,3,5-Trimethylbenzene

Concen: 0.295 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046950.D

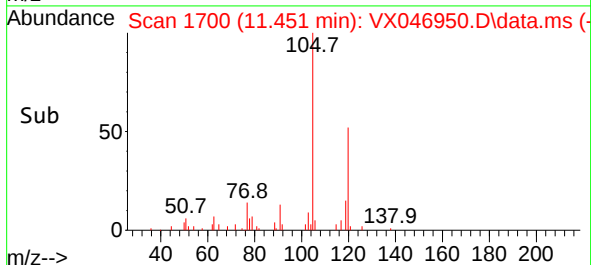
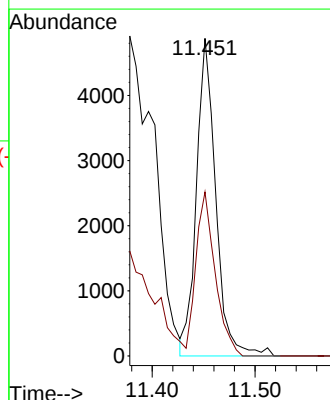
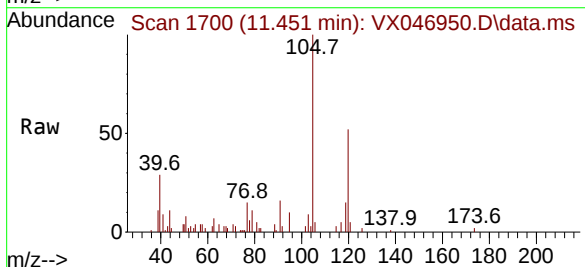
Acq: 10 Jul 2025 17:12

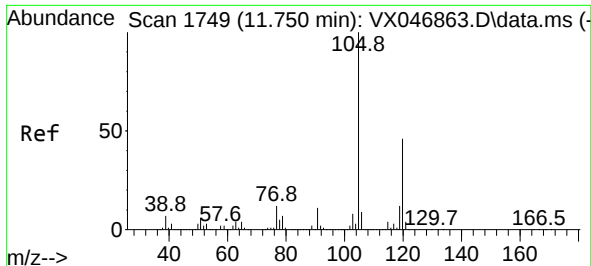
Tgt Ion: 105 Resp: 6376

Ion Ratio Lower Upper

105 100

120 51.4 24.1 72.4

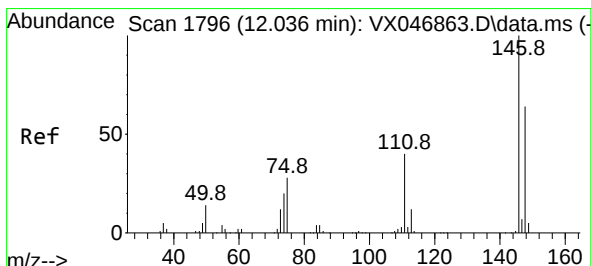
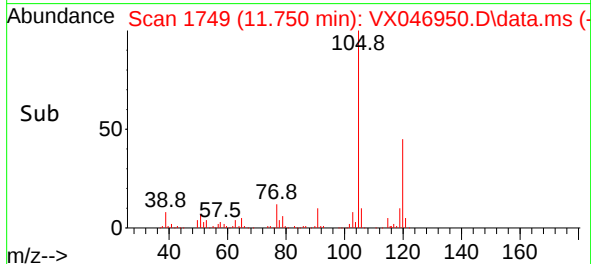
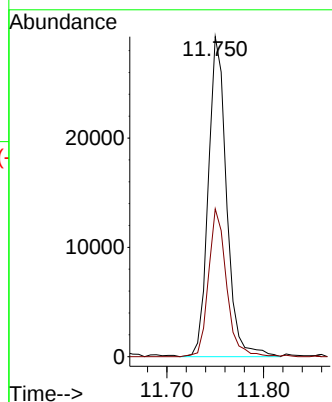
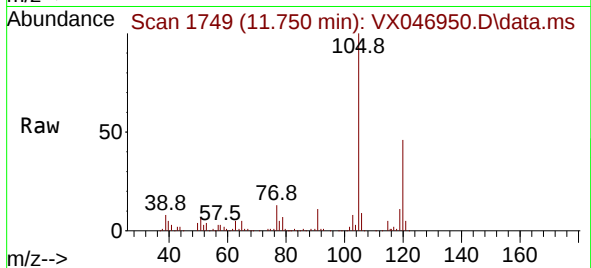




#84
 1,2,4-Trimethylbenzene
 Concen: 1.762 ug/l
 RT: 11.750 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX046950.D
 Acq: 10 Jul 2025 17:12

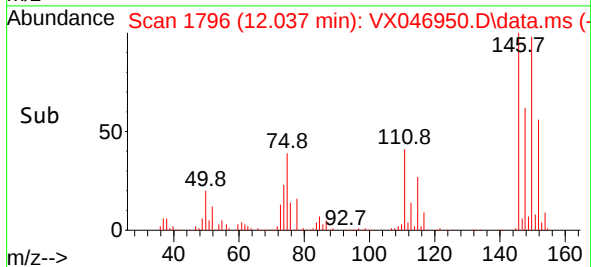
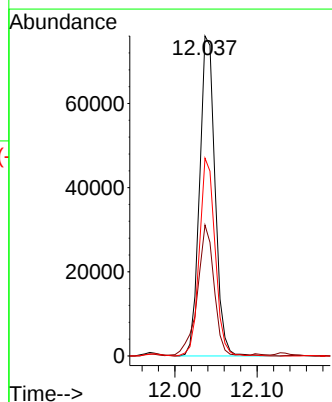
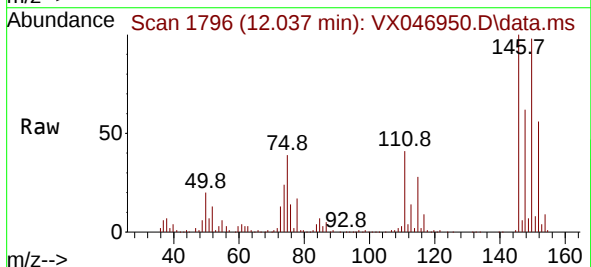
Instrument :
 MSVOA_X
 ClientSampleId :
 250709104-01 VOA

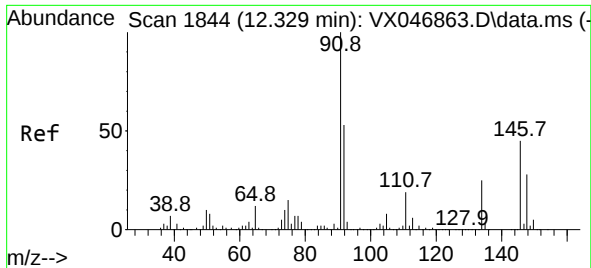
Tgt Ion:105 Resp: 38440
 Ion Ratio Lower Upper
 105 100
 120 45.7 23.3 69.8



#88
 1,4-Dichlorobenzene
 Concen: 7.732 ug/l
 RT: 12.037 min Scan# 1796
 Delta R.T. 0.000 min
 Lab File: VX046950.D
 Acq: 10 Jul 2025 17:12

Tgt Ion:146 Resp: 99603
 Ion Ratio Lower Upper
 146 100
 111 43.9 20.2 60.5
 148 62.8 32.4 97.0

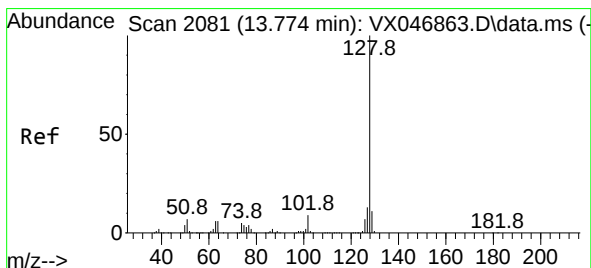
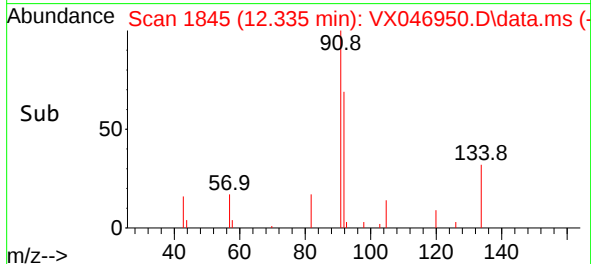
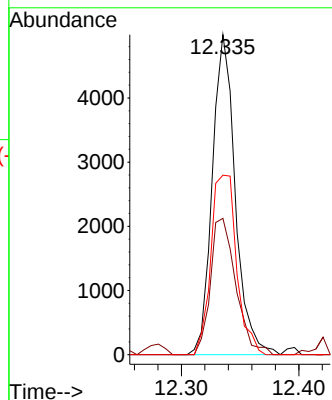
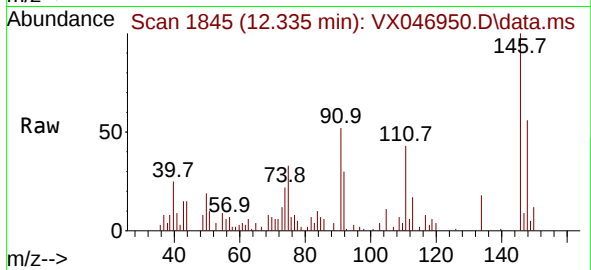




#91
1,2-Dichlorobenzene
Concen: 0.564 ug/l
RT: 12.335 min Scan# 1844
Delta R.T. 0.006 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

Instrument :
MSVOA_X
ClientSampleId :
250709104-01 VOA

Tgt Ion:146 Resp: 6759
Ion Ratio Lower Upper
146 100
111 47.2 21.1 63.1
148 63.1 31.6 95.0



#95
Naphthalene
Concen: 11.396 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX046950.D
Acq: 10 Jul 2025 17:12

Tgt Ion:128 Resp: 244699
Ion Ratio Lower Upper
128 100
127 12.5 10.2 15.4
129 10.7 8.6 13.0

