

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
 Data File : VX046680.D
 Acq On : 13 Jun 2025 11:37
 Operator : JC/MD
 Sample : Q2302-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 250611078-02-VOA

Quant Time: Jun 13 23:03:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 11 06:20:28 2025
 Response via : Initial Calibration

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

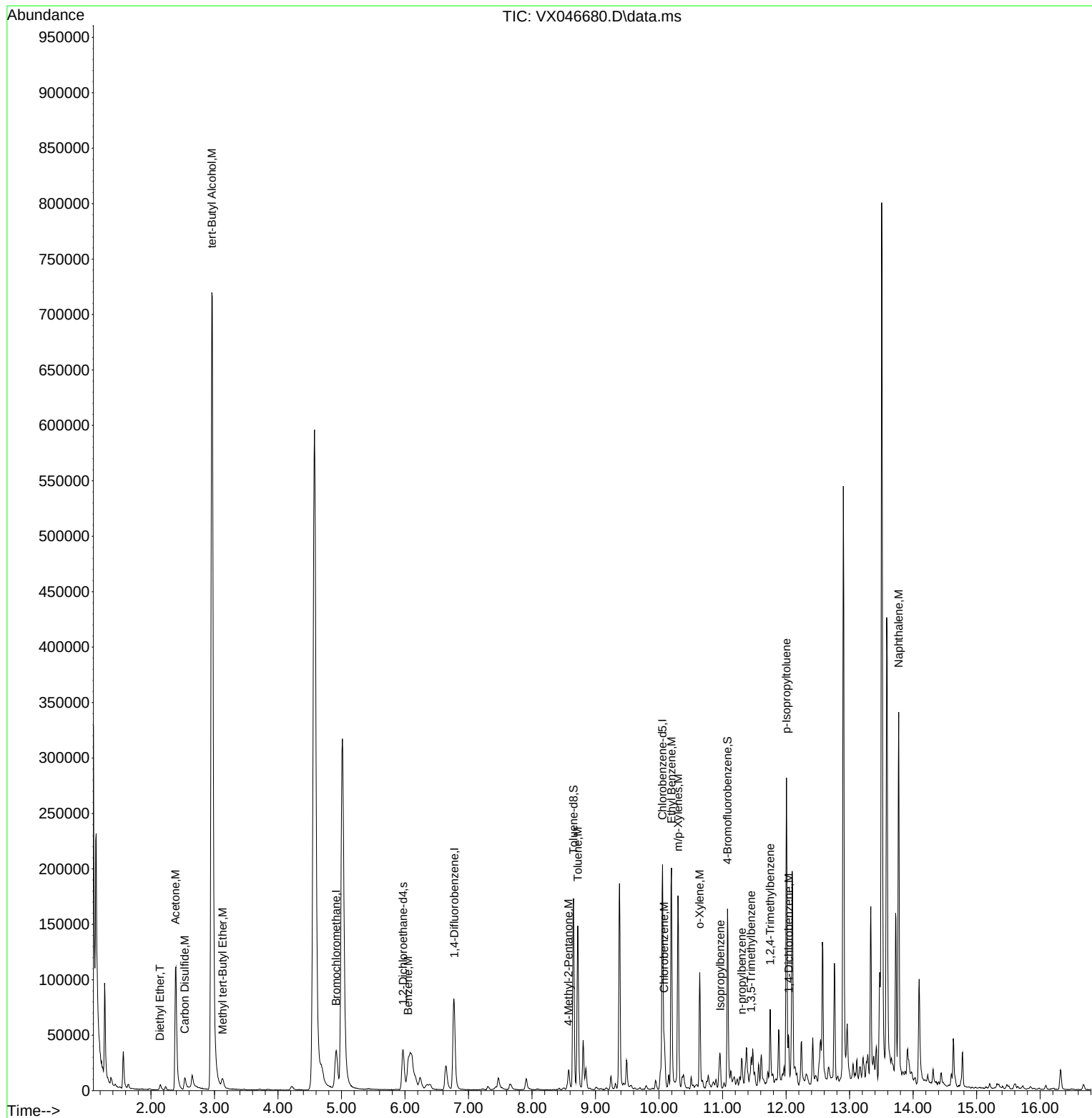
Internal Standards						
1) Bromochloromethane	4.916	128	15679	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.775	114	86832	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	80444	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	39052	30.770	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.567%	
60) 4-Bromofluorobenzene	11.079	95	41185	30.374	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.233%	
63) Toluene-d8	8.653	98	103409	28.779	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 95.933%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.142	74	1812	3.566	ug/l	89
15) Acetone	2.386	58	39907	359.957	ug/l	82
16) Carbon Disulfide	2.532	76	12606	4.854	ug/l	96
23) tert-Butyl Alcohol	2.959	59	927414	9470.911	ug/l #	100
24) Methyl tert-Butyl Ether	3.129	73	9330	3.263	ug/l #	66
34) Benzene	6.050	78	28695	7.149	ug/l	95
58) 4-Methyl-2-Pentanone	8.574	43	12844	9.816	ug/l	93
62) Toluene	8.720	91	89250	20.472	ug/l	98
64) Chlorobenzene	10.079	112	12516	4.451	ug/l	93
66) Ethyl Benzene	10.195	91	114539	23.010	ug/l	98
67) m/p-Xylenes	10.299	106	38605	20.967	ug/l	99
68) o-Xylene	10.640	106	20737	11.697	ug/l	98
70) Isopropylbenzene	10.963	105	14112	2.966	ug/l	100
74) n-propylbenzene	11.305	91	6594	1.159	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	7346	1.858	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	27339	7.003	ug/l	99
82) p-Isopropyltoluene	12.006	119	111816	27.006	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	11505	5.511	ug/l	95
91) Naphthalene	13.774	128	183119	43.838	ug/l	100

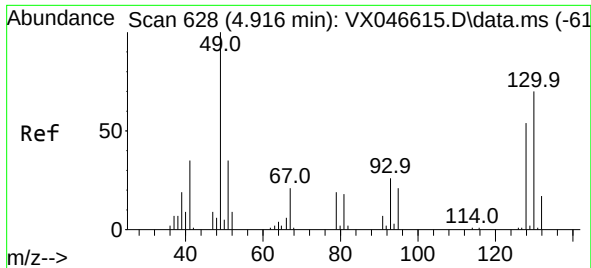
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
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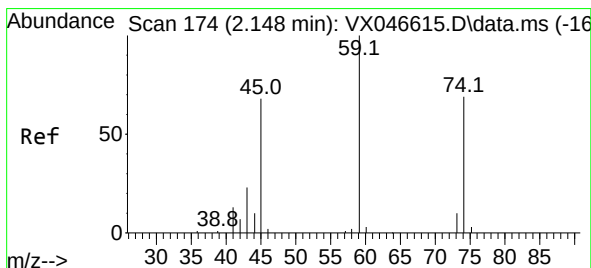
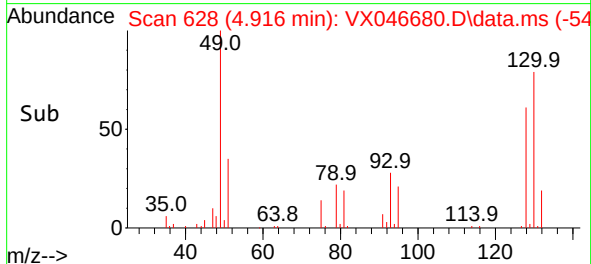
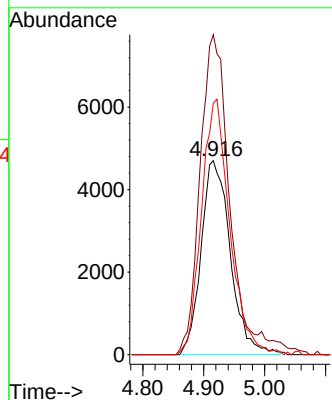
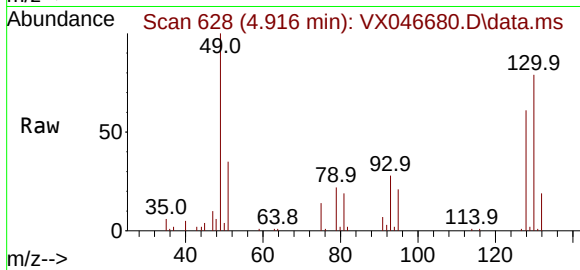




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.916 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

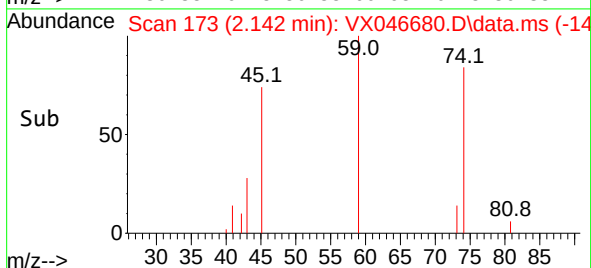
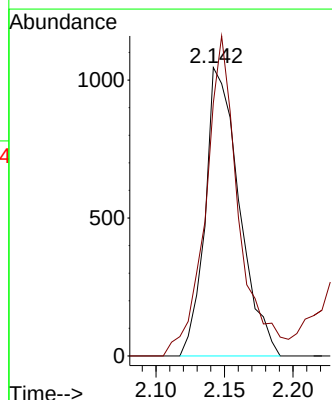
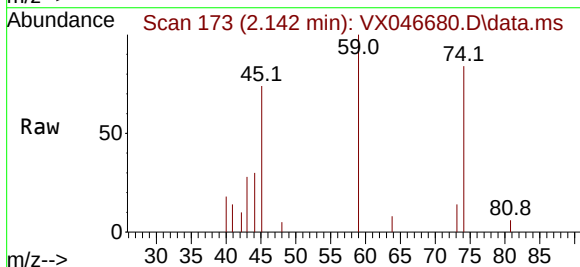
Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

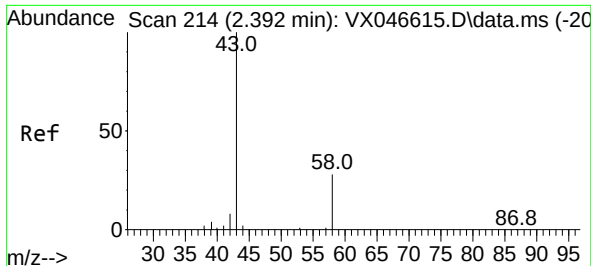
Tgt Ion:	128	Resp:	15679
Ion	Ratio	Lower	Upper
128	100		
49	162.2	0.0	448.3
130	126.9	0.0	312.0



#8
Diethyl Ether
Concen: 3.566 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.006 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion:	74	Resp:	1812
Ion	Ratio	Lower	Upper
74	100		
45	107.6	19.3	174.1

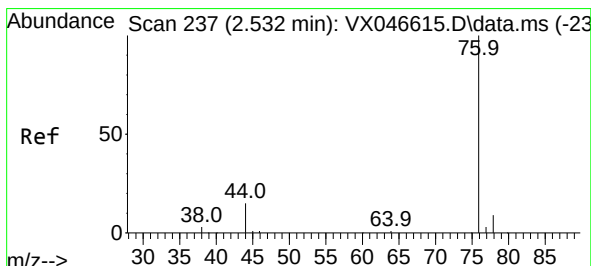
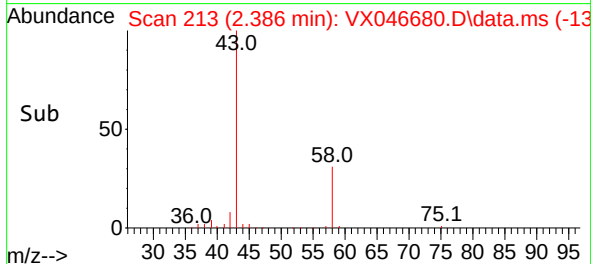
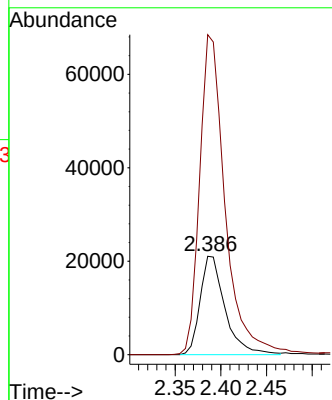
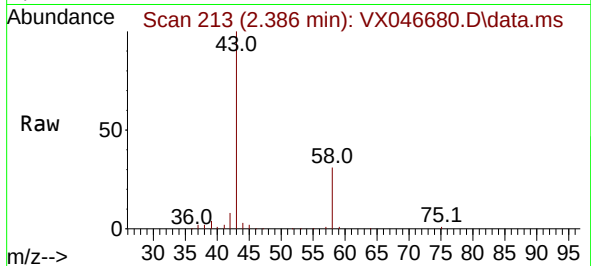




#15
Acetone
Concen: 359.957 ug/l
RT: 2.386 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

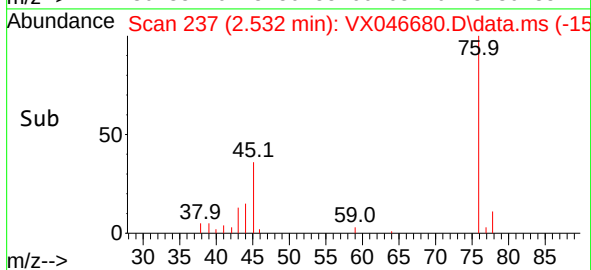
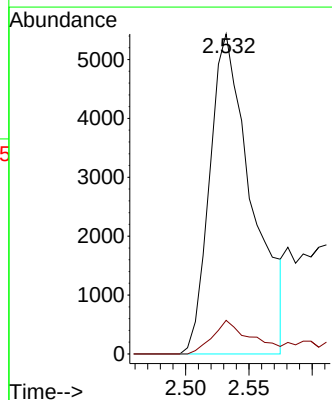
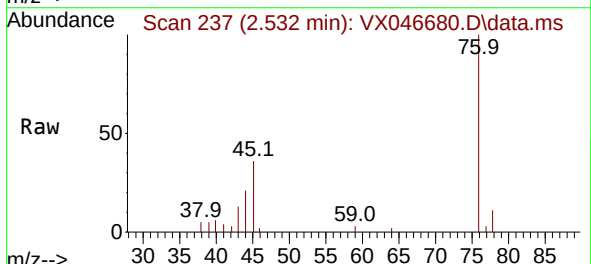
Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

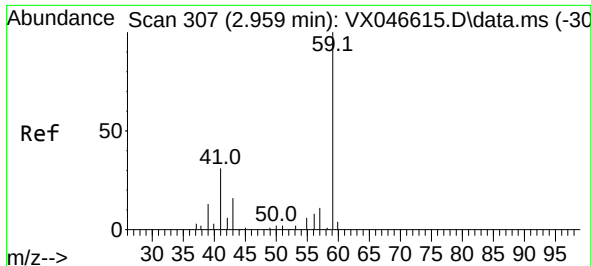
Tgt Ion: 58 Resp: 39907
Ion Ratio Lower Upper
58 100
43 324.2 290.6 435.8



#16
Carbon Disulfide
Concen: 4.854 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion: 76 Resp: 12606
Ion Ratio Lower Upper
76 100
78 10.5 7.4 11.0

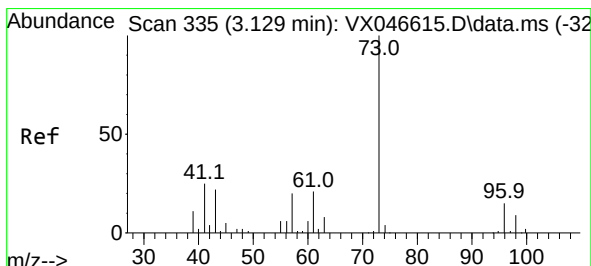
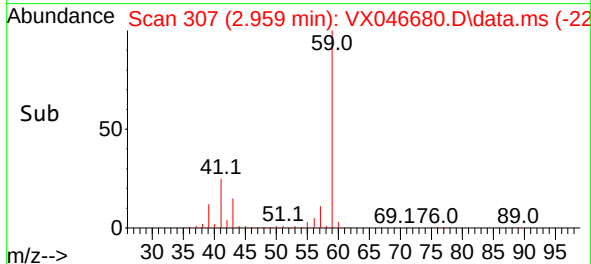
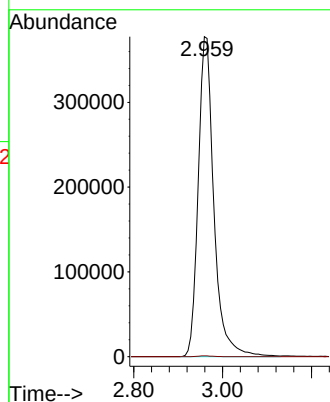
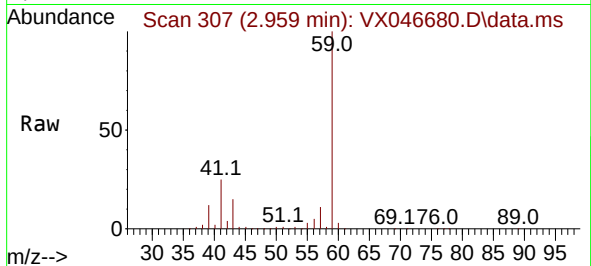




#23
tert-Butyl Alcohol
Concen: 9470.911 ug/l
RT: 2.959 min Scan# 307
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

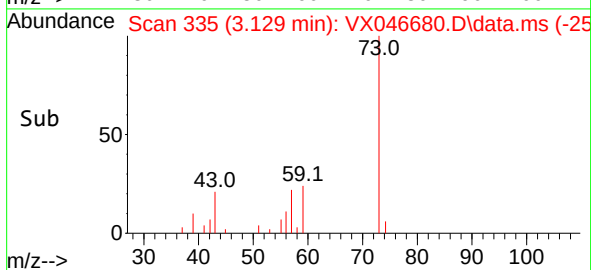
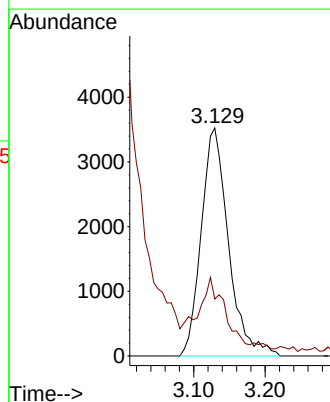
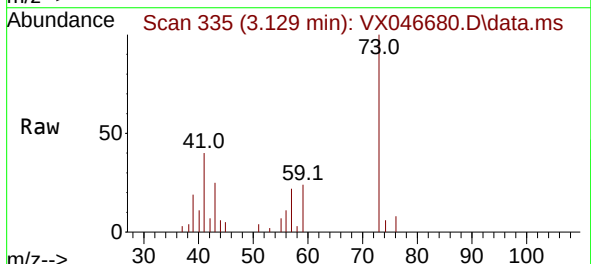
Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

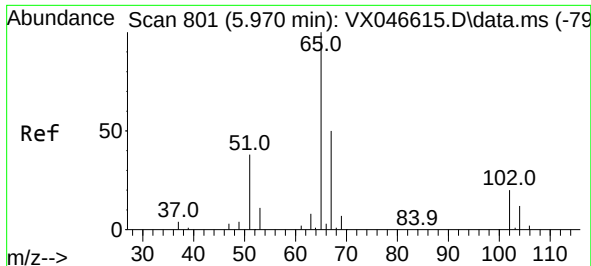
Tgt Ion: 59 Resp: 927414
Ion Ratio Lower Upper
59 100
52 0.3 0.0 0.0#



#24
Methyl tert-Butyl Ether
Concen: 3.263 ug/l
RT: 3.129 min Scan# 335
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion: 73 Resp: 9330
Ion Ratio Lower Upper
73 100
43 6.4 18.4 27.6#





#27

1,2-Dichloroethane-d4

Concen: 30.770 ug/l

RT: 5.970 min Scan# 801

Delta R.T. 0.000 min

Lab File: VX046680.D

Acq: 13 Jun 2025 11:37

Instrument :

MSVOA_X

ClientSampleId :

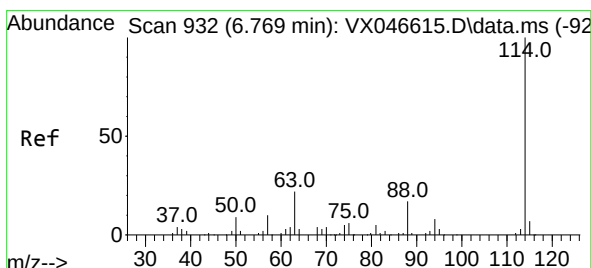
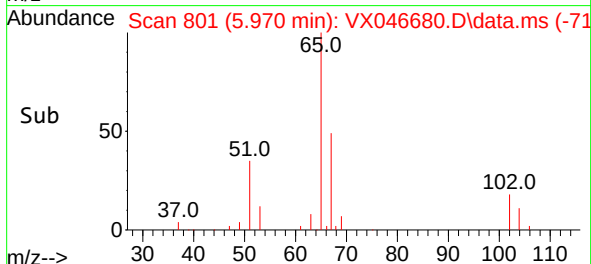
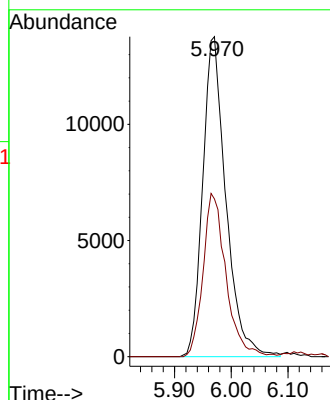
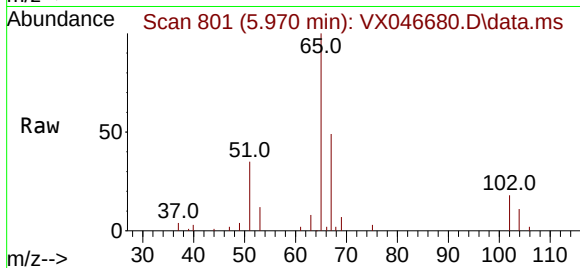
250611078-02-VOA

Tgt Ion: 65 Resp: 39052

Ion Ratio Lower Upper

65 100

67 50.3 41.4 62.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.775 min Scan# 933

Delta R.T. 0.006 min

Lab File: VX046680.D

Acq: 13 Jun 2025 11:37

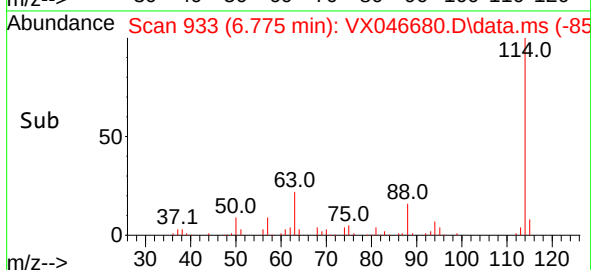
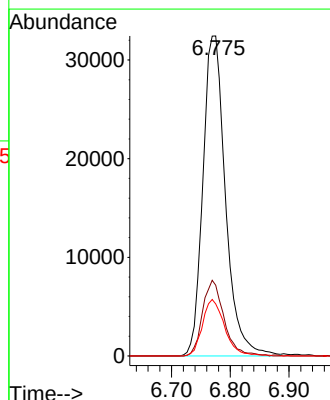
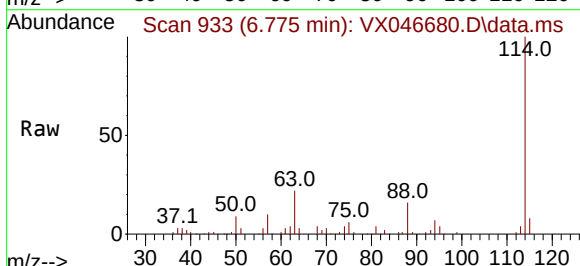
Tgt Ion: 114 Resp: 86832

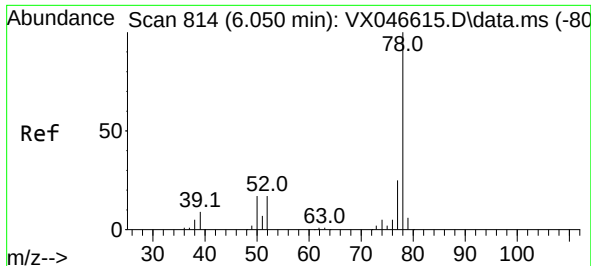
Ion Ratio Lower Upper

114 100

63 22.4 18.1 27.1

88 17.2 14.1 21.1





#34

Benzene

Concen: 7.149 ug/l

RT: 6.050 min Scan# 814

Delta R.T. 0.000 min

Lab File: VX046680.D

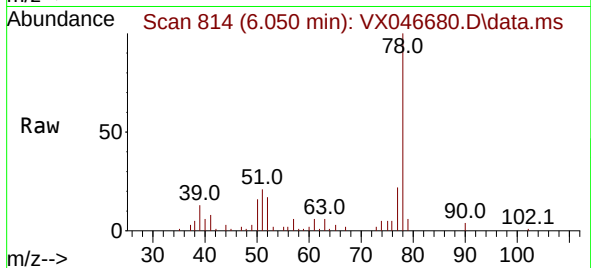
Acq: 13 Jun 2025 11:37

Instrument :

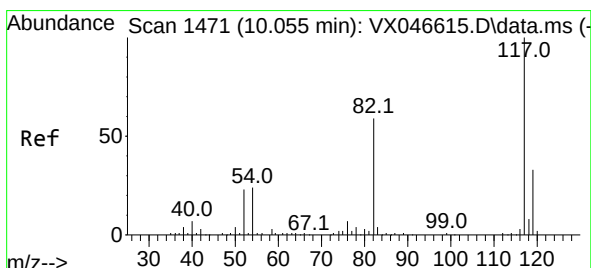
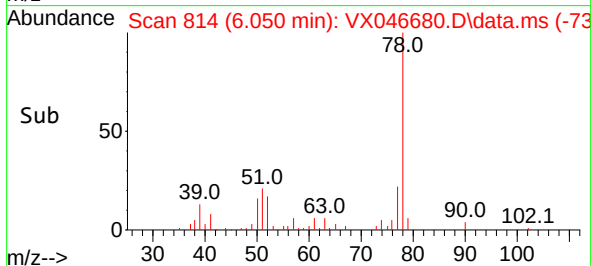
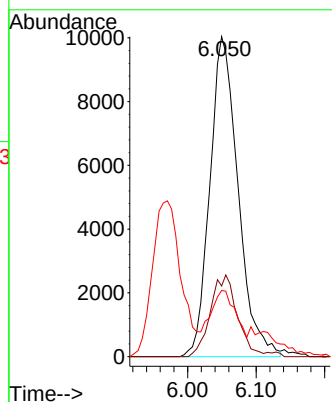
MSVOA_X

ClientSampleId :

250611078-02-VOA



Tgt Ion: 78	Resp: 28695
Ion Ratio	Lower Upper
78 100	
77 22.1	19.8 29.8
51 16.8	14.7 22.1



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

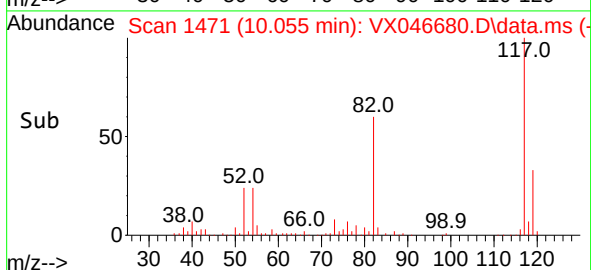
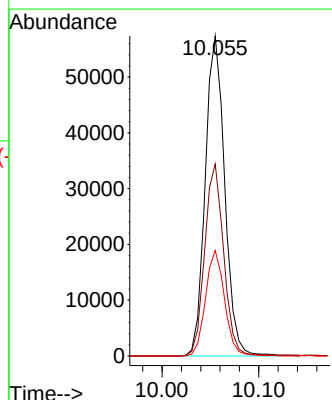
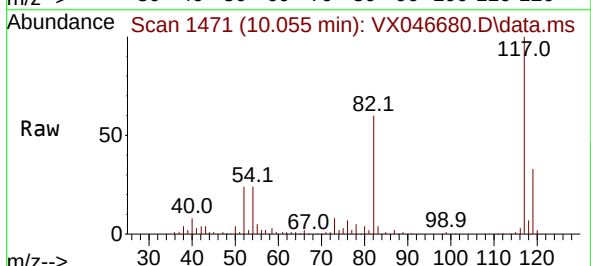
RT: 10.055 min Scan# 1471

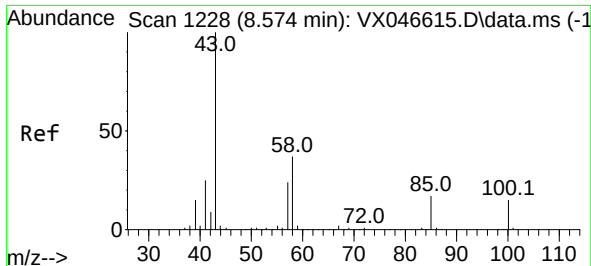
Delta R.T. 0.000 min

Lab File: VX046680.D

Acq: 13 Jun 2025 11:37

Tgt Ion: 117	Resp: 80444
Ion Ratio	Lower Upper
117 100	
82 58.6	46.5 69.7
119 32.2	25.8 38.6





#58

4-Methyl-2-Pentanone

Concen: 9.816 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX046680.D

Acq: 13 Jun 2025 11:37

Instrument :

MSVOA_X

ClientSampleId :

250611078-02-VOA

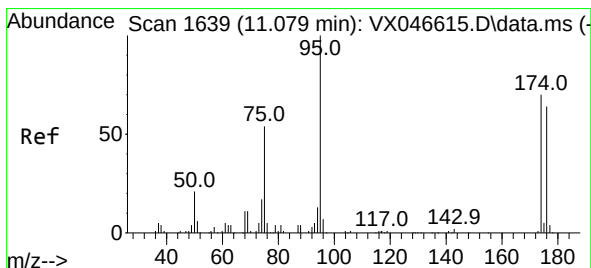
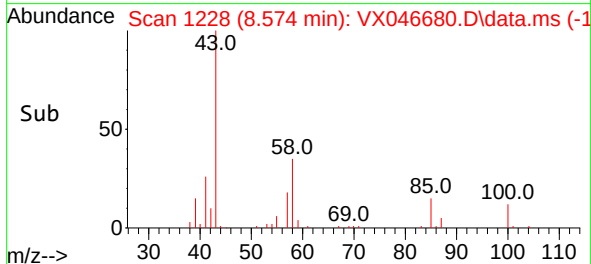
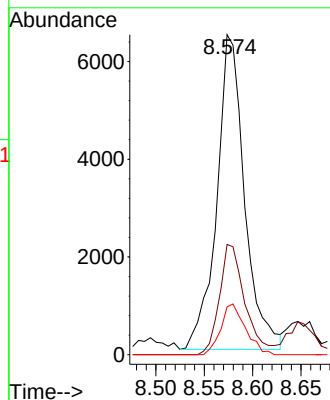
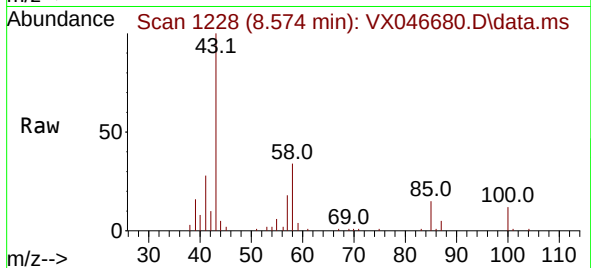
Tgt Ion: 43 Resp: 12844

Ion Ratio Lower Upper

43 100

58 32.2 29.4 44.2

85 14.3 13.3 19.9



#60

4-Bromofluorobenzene

Concen: 30.374 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046680.D

Acq: 13 Jun 2025 11:37

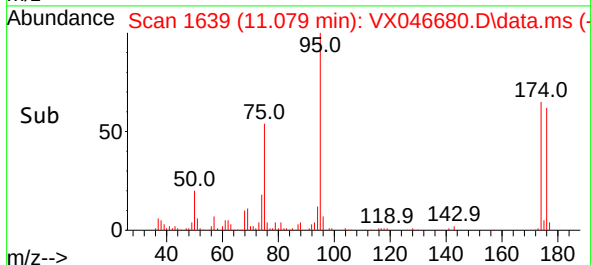
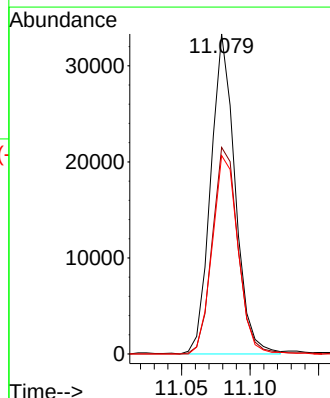
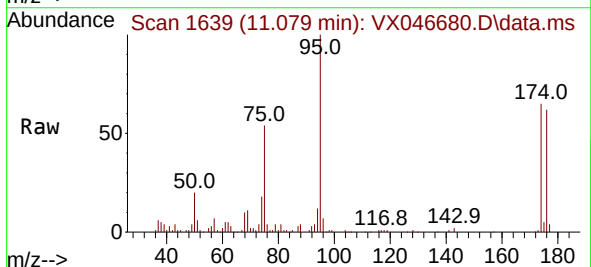
Tgt Ion: 95 Resp: 41185

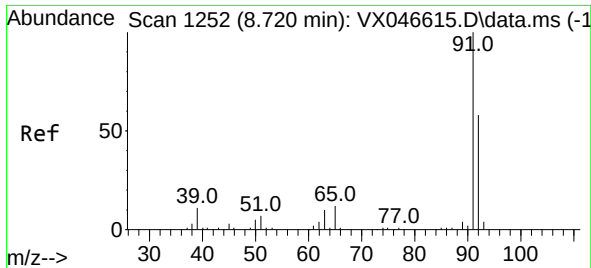
Ion Ratio Lower Upper

95 100

174 67.8 56.0 84.0

176 65.5 52.2 78.4

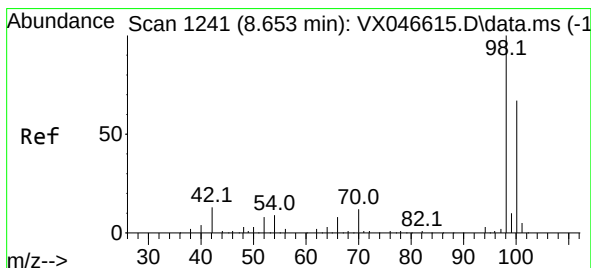
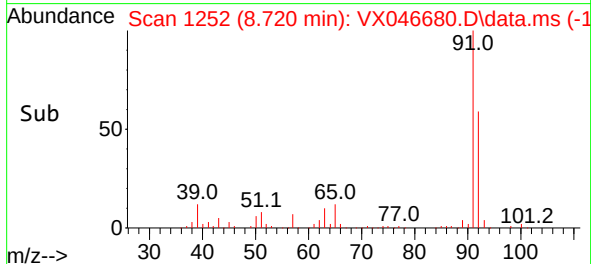
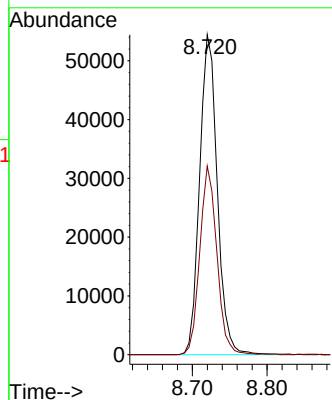
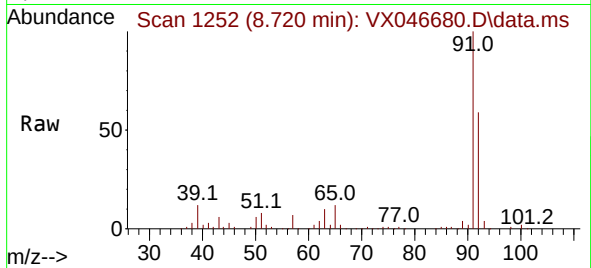




#62
Toluene
Concen: 20.472 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

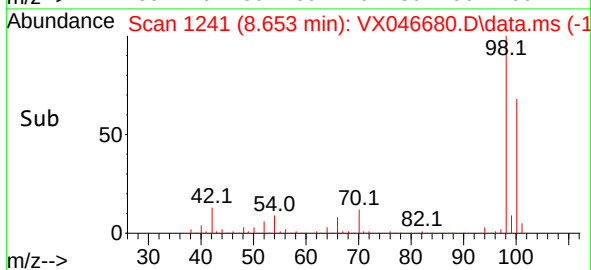
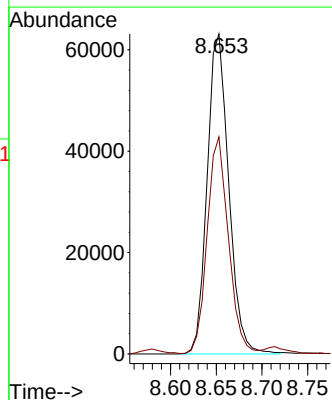
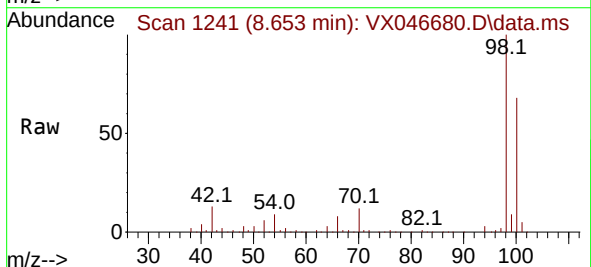
Instrument :
MSVOA_X
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250611078-02-VOA

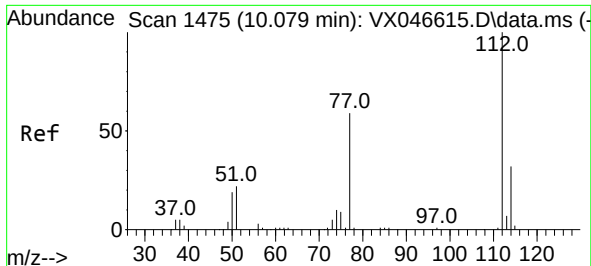
Tgt Ion: 91 Resp: 89250
Ion Ratio Lower Upper
91 100
92 57.1 46.8 70.2



#63
Toluene-d8
Concen: 28.779 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion: 98 Resp: 103409
Ion Ratio Lower Upper
98 100
100 67.0 52.6 79.0

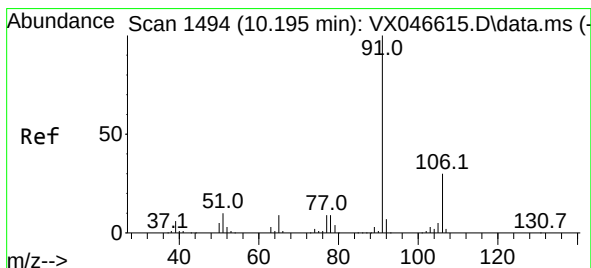
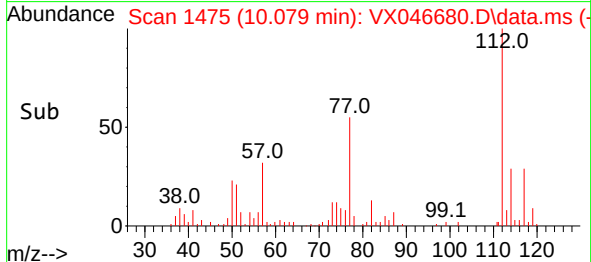
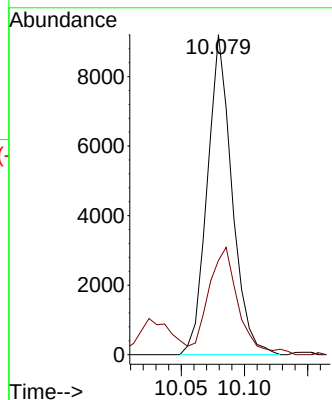
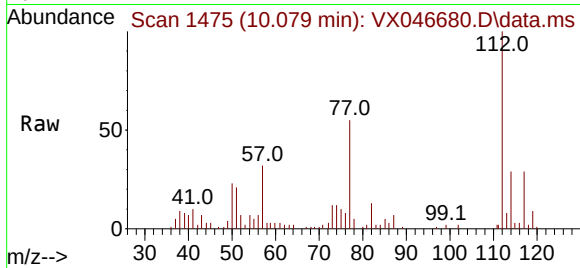




#64
Chlorobenzene
Concen: 4.451 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

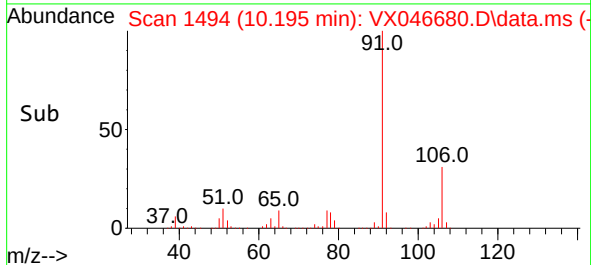
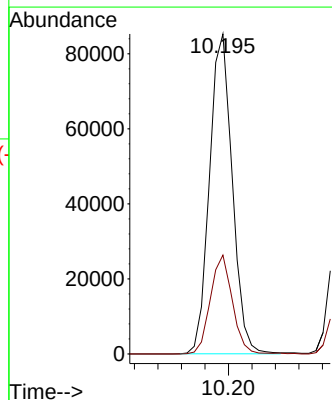
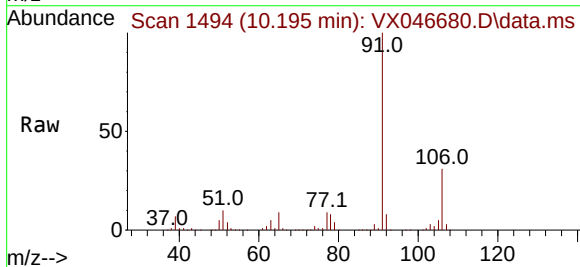
Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

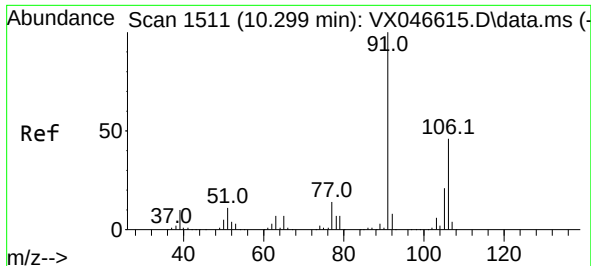
Tgt Ion:112 Resp: 12516
Ion Ratio Lower Upper
112 100
114 27.7 25.4 38.0



#66
Ethyl Benzene
Concen: 23.010 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion: 91 Resp: 114539
Ion Ratio Lower Upper
91 100
106 30.9 23.9 35.9





#67

m/p-Xylenes

Concen: 20.967 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX046680.D

Acq: 13 Jun 2025 11:37

Instrument :

MSVOA_X

ClientSampleId :

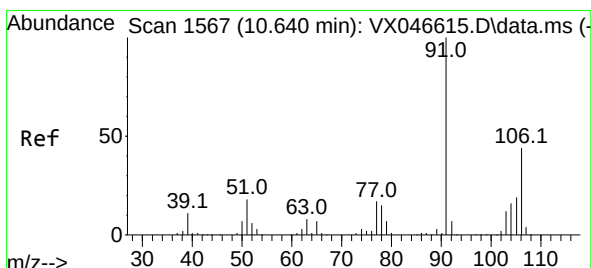
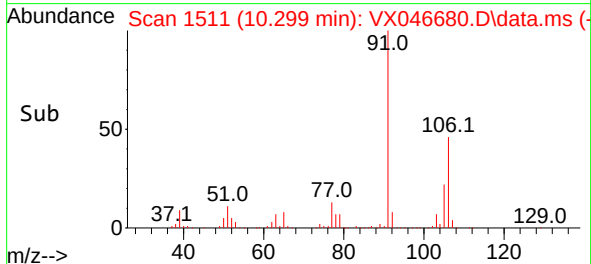
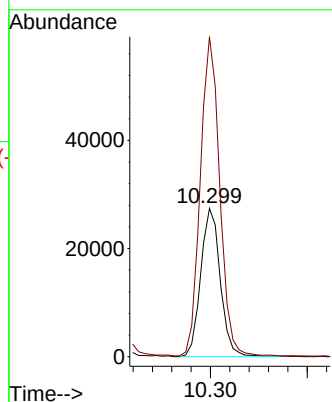
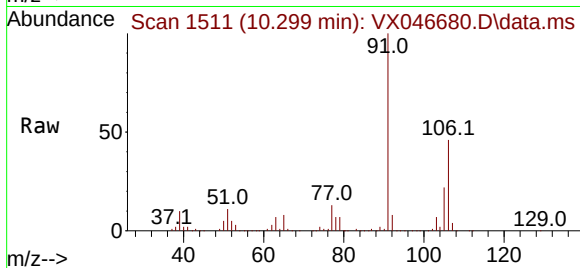
250611078-02-VOA

Tgt Ion:106 Resp: 38605

Ion Ratio Lower Upper

106 100

91 213.5 171.5 257.3



#68

o-Xylene

Concen: 11.697 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX046680.D

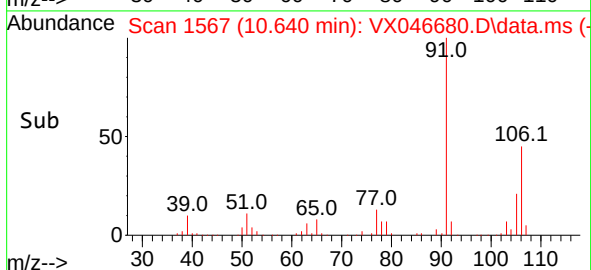
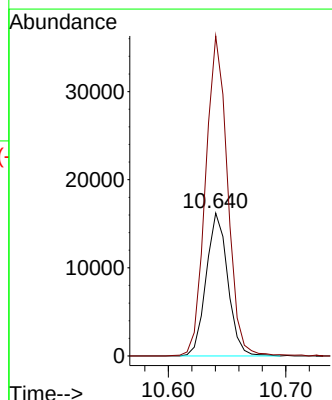
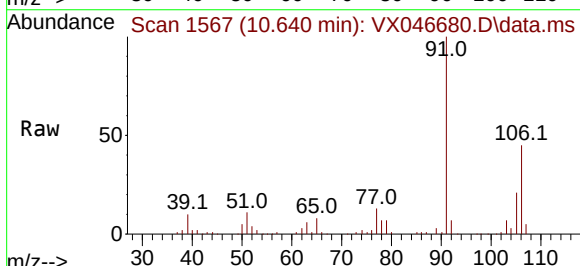
Acq: 13 Jun 2025 11:37

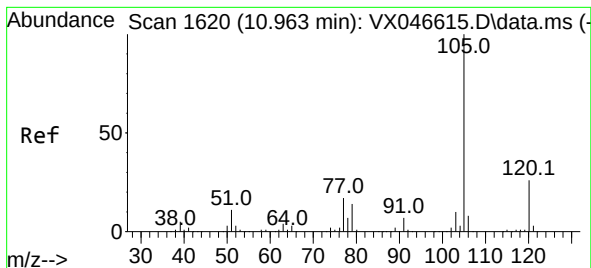
Tgt Ion:106 Resp: 20737

Ion Ratio Lower Upper

106 100

91 227.2 112.3 336.9





#70

Isopropylbenzene

Concen: 2.966 ug/l

RT: 10.963 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046680.D

Acq: 13 Jun 2025 11:37

Instrument :

MSVOA_X

ClientSampleId :

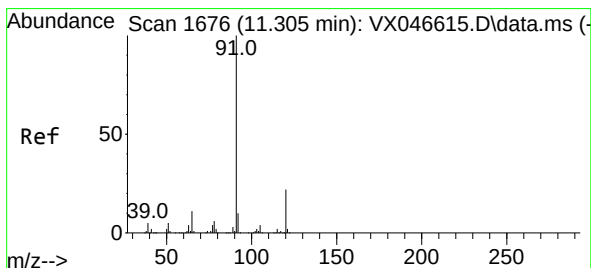
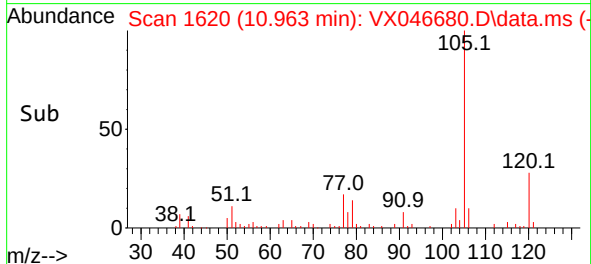
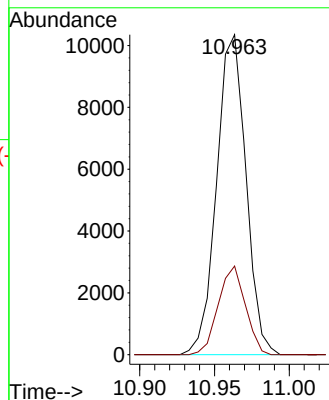
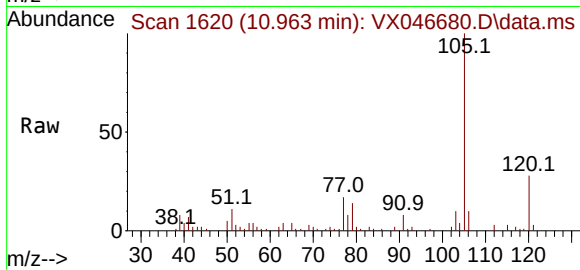
250611078-02-VOA

Tgt Ion:105 Resp: 14112

Ion Ratio Lower Upper

105 100

120 25.6 18.1 33.5



#74

n-propylbenzene

Concen: 1.159 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VX046680.D

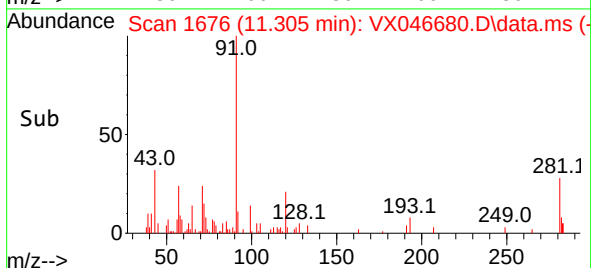
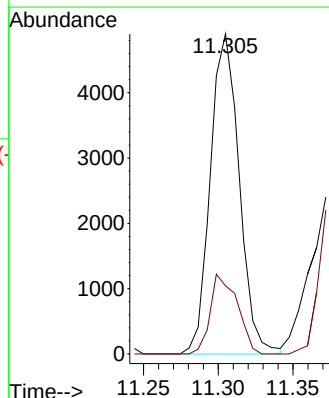
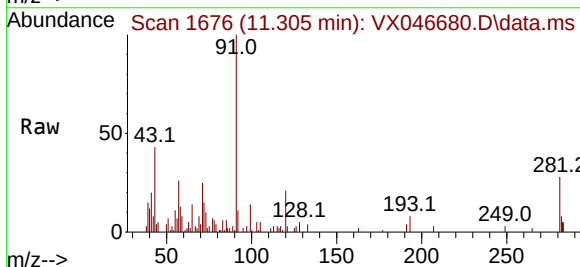
Acq: 13 Jun 2025 11:37

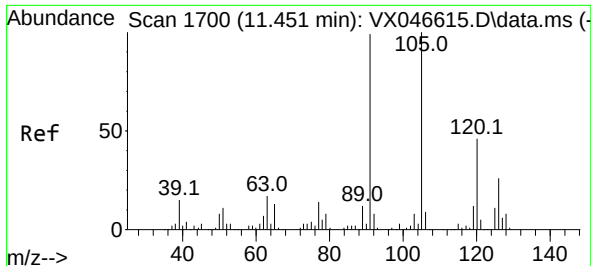
Tgt Ion: 91 Resp: 6594

Ion Ratio Lower Upper

91 100

120 23.3 0.0 43.8

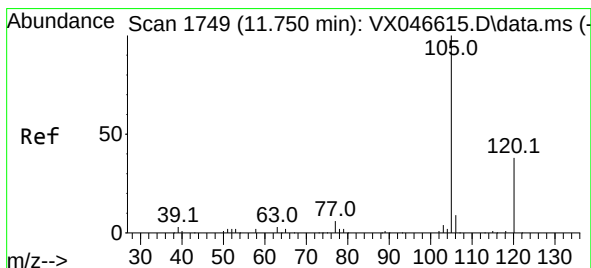
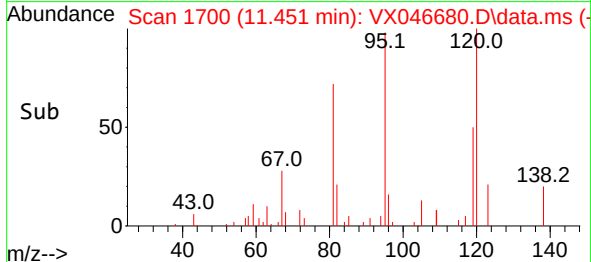
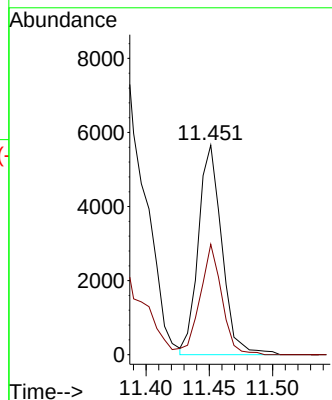
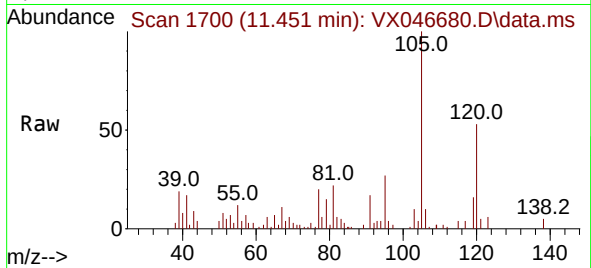




#76
1,3,5-Trimethylbenzene
Concen: 1.858 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

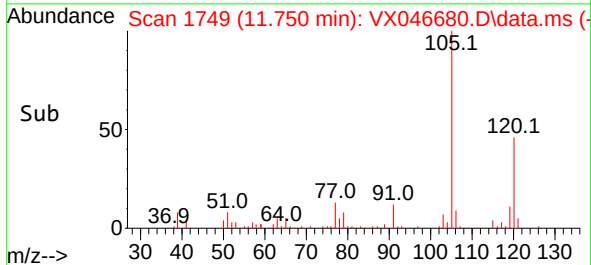
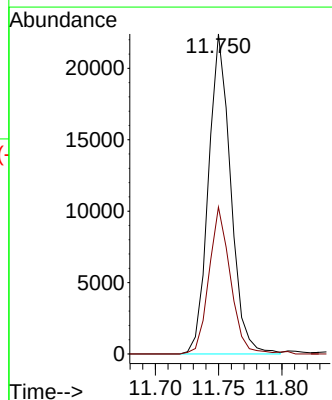
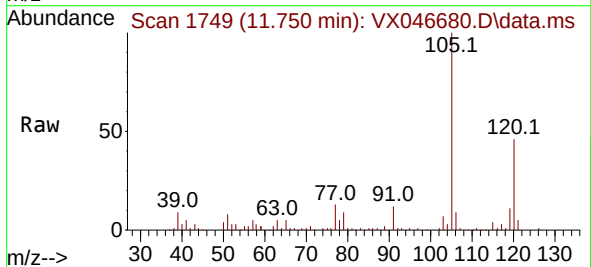
Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

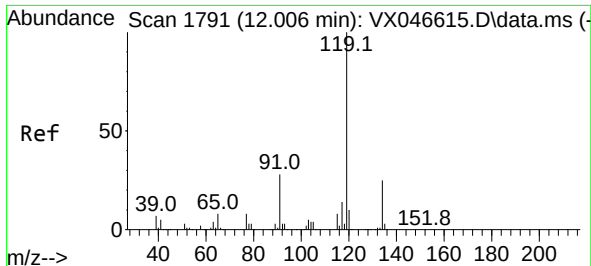
Tgt Ion:105 Resp: 7346
Ion Ratio Lower Upper
105 100
120 49.0 0.0 92.8



#80
1,2,4-Trimethylbenzene
Concen: 7.003 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion:105 Resp: 27339
Ion Ratio Lower Upper
105 100
120 44.2 0.0 89.6

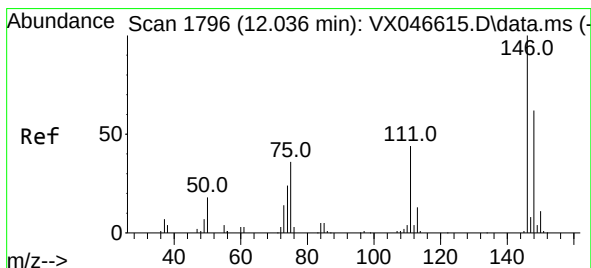
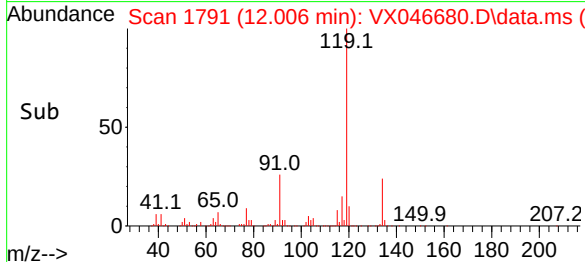
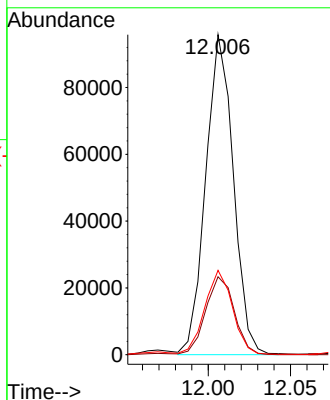
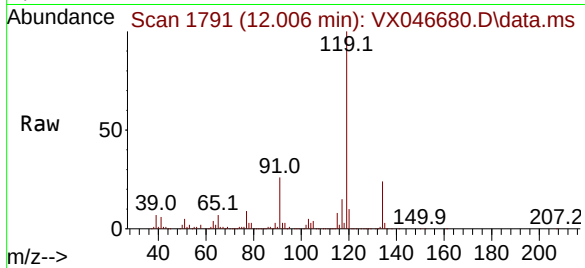




#82
p-Isopropyltoluene
Concen: 27.006 ug/l
RT: 12.006 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

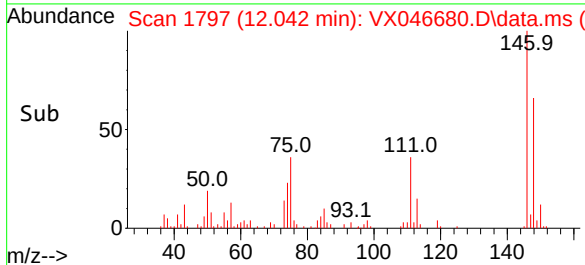
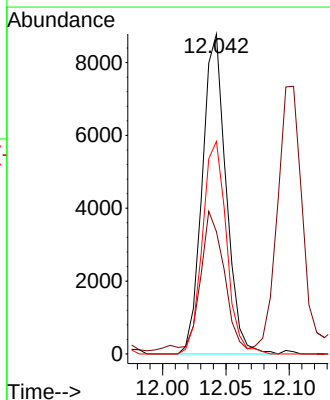
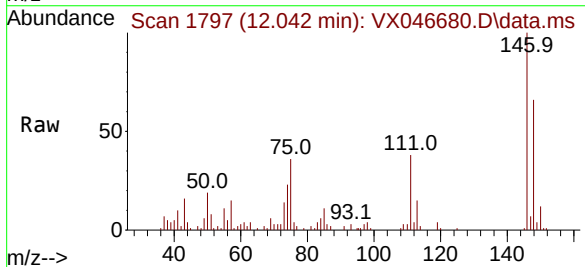
Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

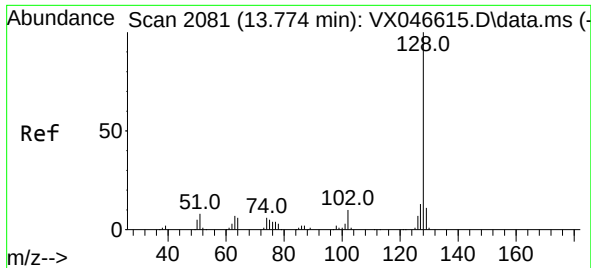
Tgt Ion:119 Resp: 111816
Ion Ratio Lower Upper
119 100
134 25.2 0.0 50.0
91 26.0 0.0 54.0



#84
1,4-Dichlorobenzene
Concen: 5.511 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion:146 Resp: 11505
Ion Ratio Lower Upper
146 100
111 44.8 21.3 63.7
148 67.0 31.4 94.3





#91

Naphthalene

Concen: 43.838 ug/l

RT: 13.774 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX046680.D

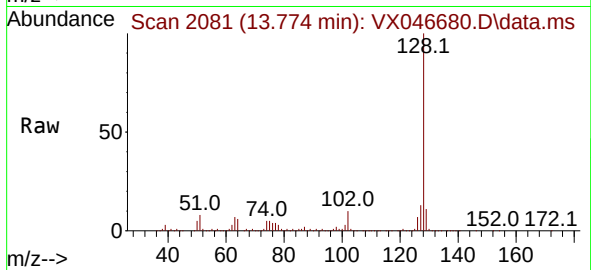
Acq: 13 Jun 2025 11:37

Instrument :

MSVOA_X

ClientSampleId :

250611078-02-VOA



Tgt Ion:	128	Resp:	183119
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	10.9	8.8	13.2

