

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072624\
 Data File : VX042561.D
 Acq On : 25 Jul 2024 12:21
 Operator : JC/MD
 Sample : P3355-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 26 01:35:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:30:14 2024
 Response via : Initial Calibration

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

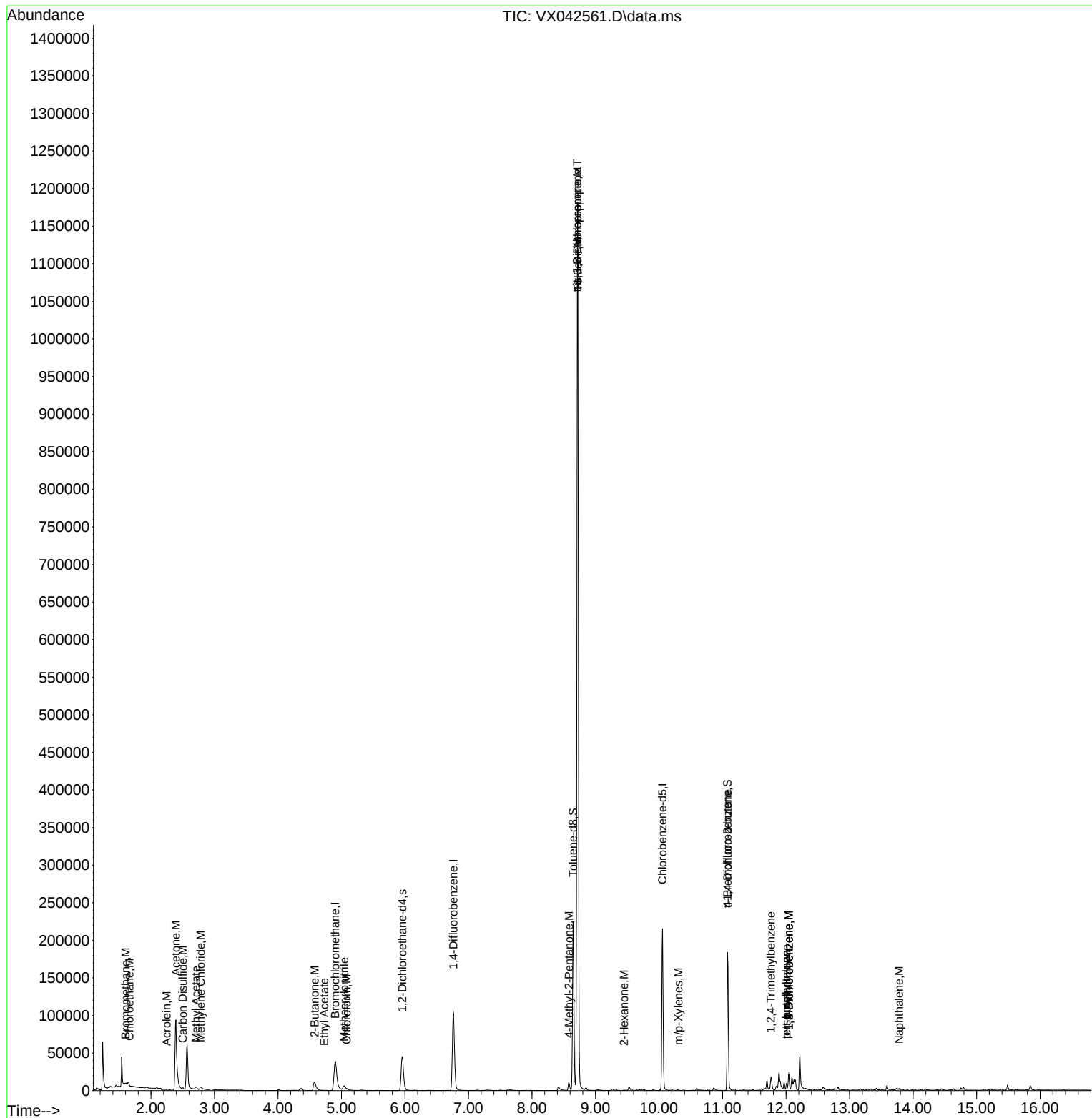
Internal Standards						
1) Bromochloromethane	4.897	128	20714	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	114811	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	107365	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	44380	29.911	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.700%
60) 4-Bromofluorobenzene	11.079	95	47010	28.141	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.800%
63) Toluene-d8	8.647	98	136342	29.233	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.433%
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	241	0.372	ug/l #	80
6) Chloroethane	1.660	64	340	0.612	ug/l #	58
12) Methyl Acetate	2.709	43	3919	1.974	ug/l	96
13) Acrolein	2.245	56	85	0.341	ug/l #	78
15) Acetone	2.392	58	35728	161.131	ug/l	99
16) Carbon Disulfide	2.502	76	3037	1.272	ug/l	97
18) Methylene Chloride	2.782	84	984	0.713	ug/l #	86
25) Chloroform	5.080	83	845	0.356	ug/l #	50
30) 2-Butanone	4.574	43	22155	22.165	ug/l	98
35) Methacrylonitrile	5.044	41	1341	1.360	ug/l #	49
43) Ethyl Acetate	4.727	43	474	0.267	ug/l #	63
48) t-1,3-Dichloropropene	8.714	75	5477	3.358	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	5477	2.988	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	6889	3.641	ug/l	97
59) 2-Hexanone	9.451	43	368	0.248	ug/l #	87
62) Toluene	8.720	91	800977	149.221	ug/l	100
67) m/p-Xylenes	10.305	106	498	0.213	ug/l	78
77) t-1,4-Dichloro-2-butene	11.079	75	21819	36.690	ug/l #	7
79) tert-butylbenzene	12.006	119	4222	0.798	ug/l	72
80) 1,2,4-Trimethylbenzene	11.762	105	2414	0.484	ug/l	54
82) p-Isopropyltoluene	12.006	119	4222	0.779	ug/l	95
83) 1,3-Dichlorobenzene	12.042	146	4656	1.528	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	4656	1.539	ug/l	99
87) 1,2-Dichlorobenzene	12.042	146	4656	1.512	ug/l	98
91) Naphthalene	13.780	128	1441	0.232	ug/l #	94

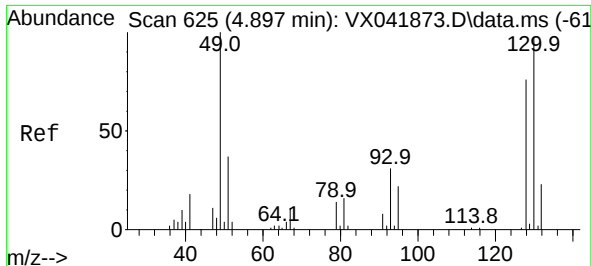
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072624\
Data File : VX042561.D
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Sample : P3355-02
Misc : 5.0mL/MSVOA_X/WATER
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Instrument :
MSVOA_X
ClientSampleId :

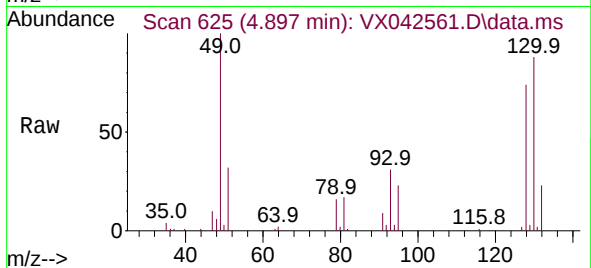
Quant Time: Jul 26 01:35:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 19 11:30:14 2024
Response via : Initial Calibration



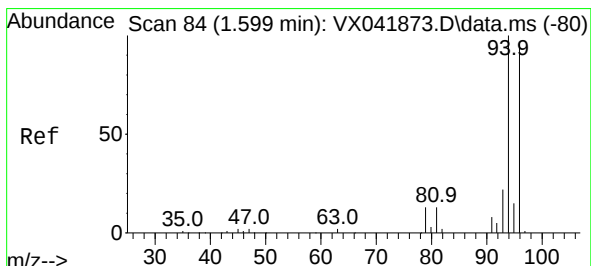
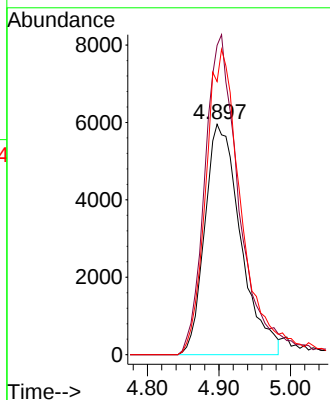
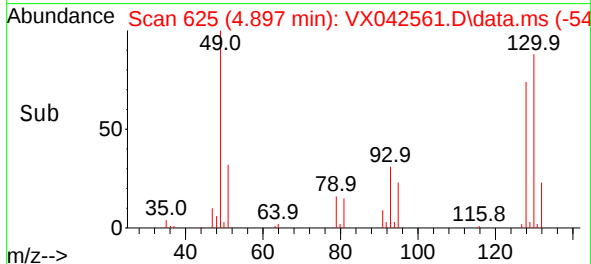


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21

Instrument :
MSVOA_X
ClientSampleId :

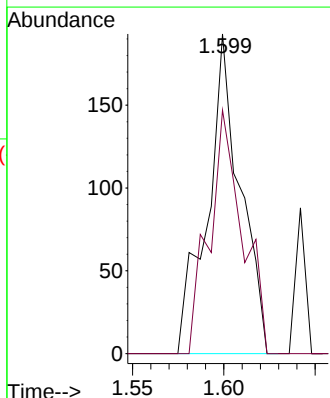
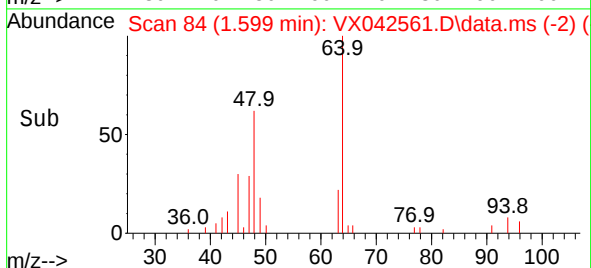
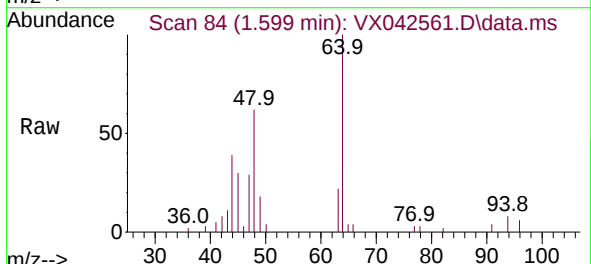


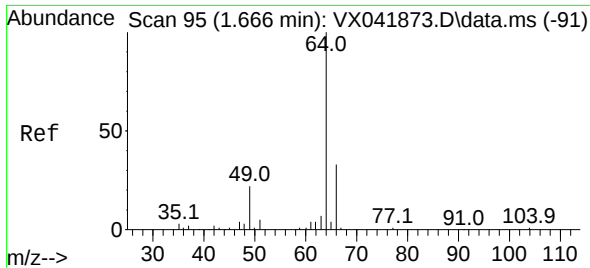
Tgt Ion:128 Resp: 20714
Ion Ratio Lower Upper
128 100
49 133.5 0.0 338.5
130 131.8 0.0 324.5



#5
Bromomethane
Concen: 0.372 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21

Tgt Ion: 94 Resp: 241
Ion Ratio Lower Upper
94 100
96 76.2 76.6 115.0#

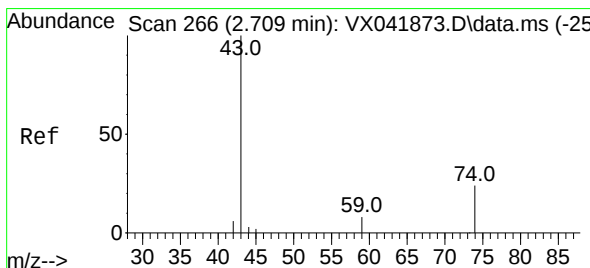
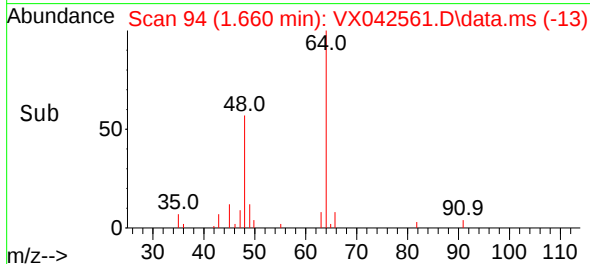
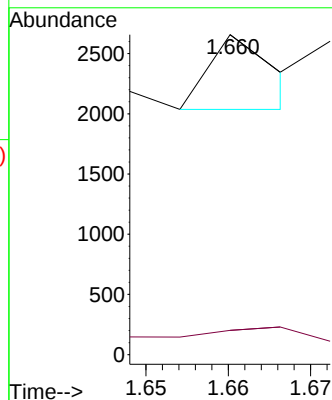
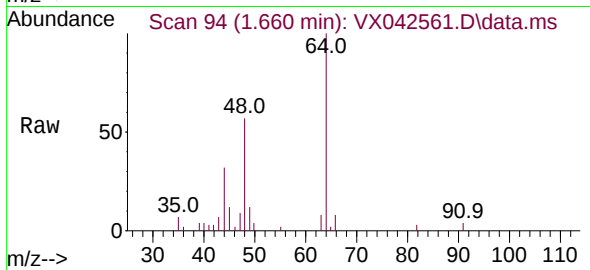




#6
Chloroethane
Concen: 0.612 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21

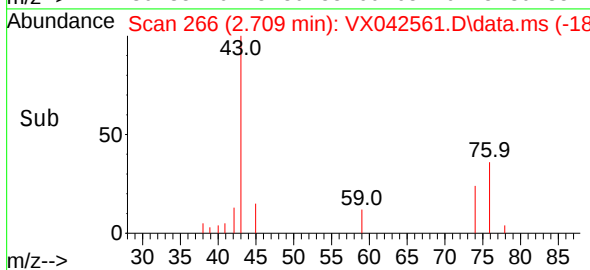
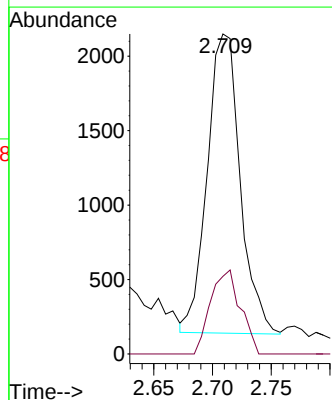
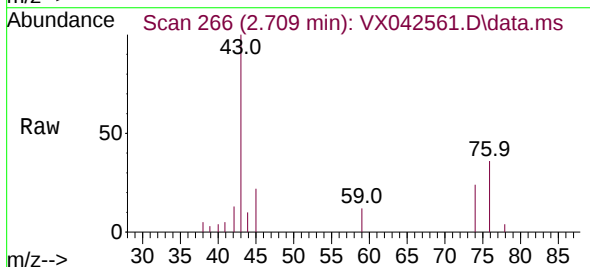
Instrument :
MSVOA_X
ClientSampleId :

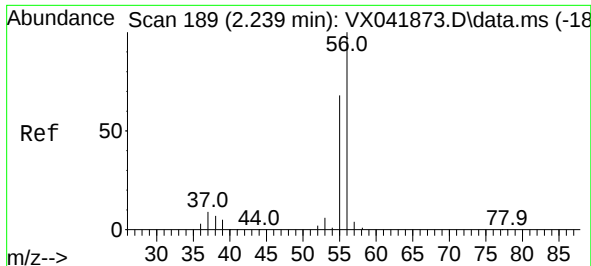
Tgt Ion: 64 Resp: 340
Ion Ratio Lower Upper
64 100
66 9.0 26.4 39.6#



#12
Methyl Acetate
Concen: 1.974 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21

Tgt Ion: 43 Resp: 3919
Ion Ratio Lower Upper
43 100
74 26.4 19.4 29.2

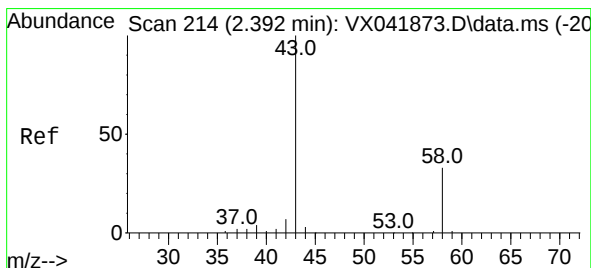
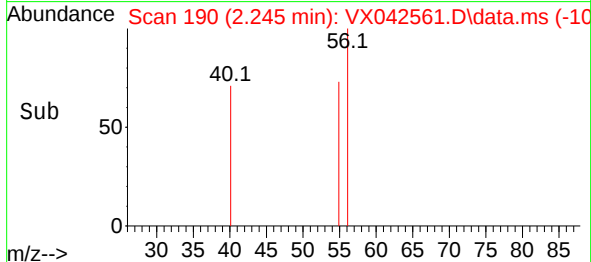
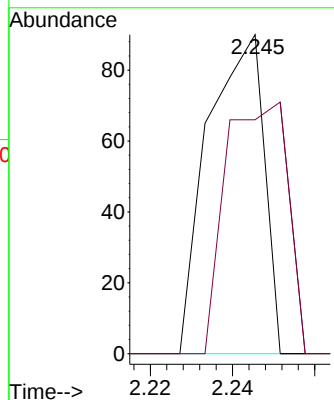
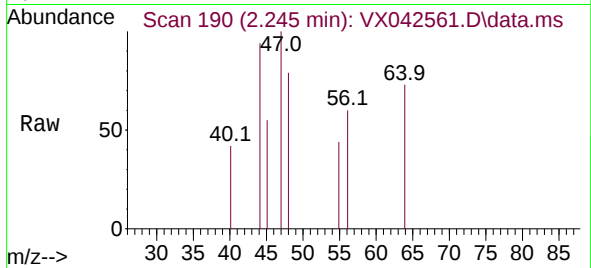




#13
Acrolein
Concen: 0.341 ug/l
RT: 2.245 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21

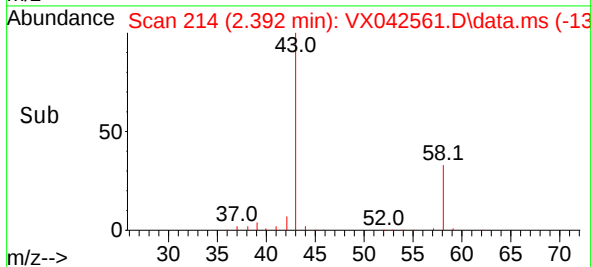
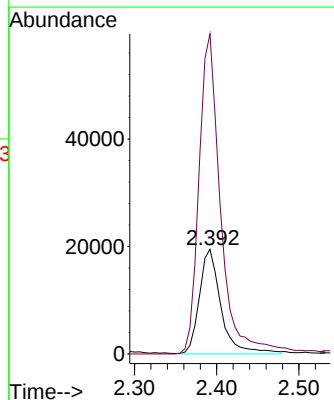
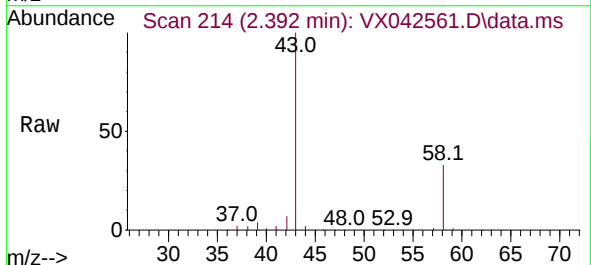
Instrument :
MSVOA_X
ClientSampleId :

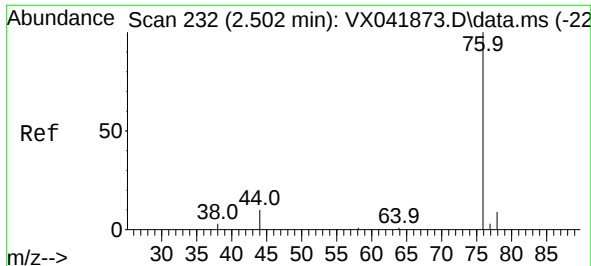
Tgt Ion: 56 Resp: 85
Ion Ratio Lower Upper
56 100
55 87.1 55.4 83.0#



#15
Acetone
Concen: 161.131 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21

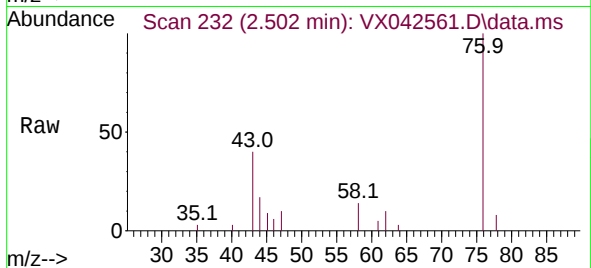
Tgt Ion: 58 Resp: 35728
Ion Ratio Lower Upper
58 100
43 306.1 243.4 365.2



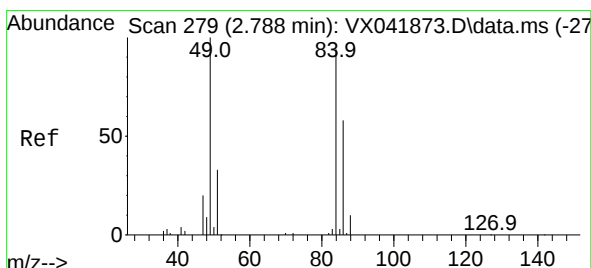
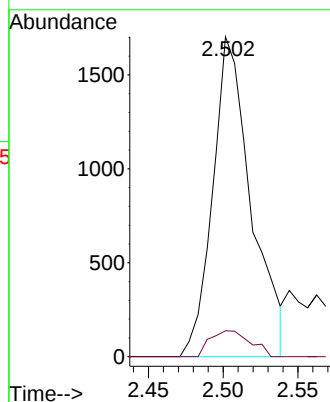
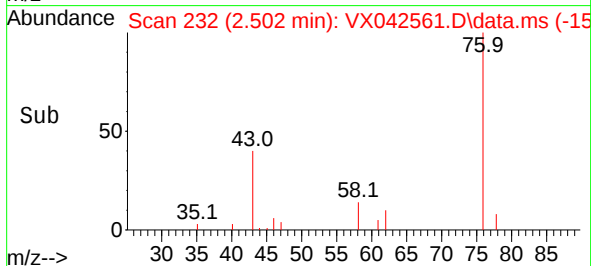


#16
Carbon Disulfide
Concen: 1.272 ug/l
RT: 2.502 min Scan# 24
Delta R.T. -0.000 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21

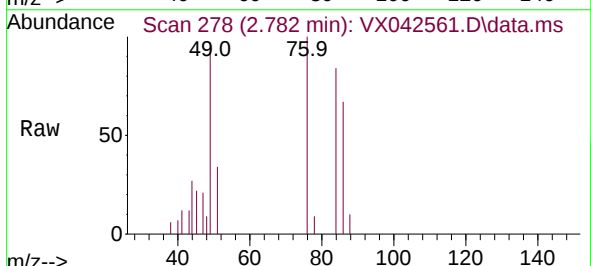
Instrument :
MSVOA_X
ClientSampleId :



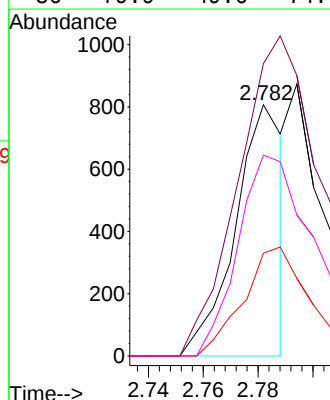
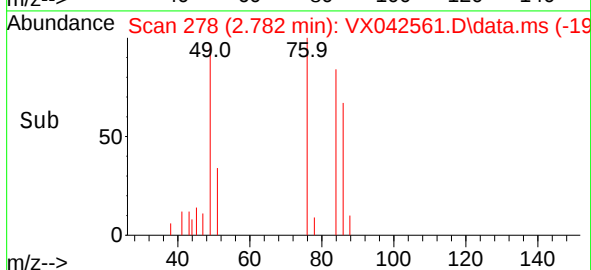
Tgt Ion: 76 Resp: 3037
Ion Ratio Lower Upper
76 100
78 8.1 7.3 10.9

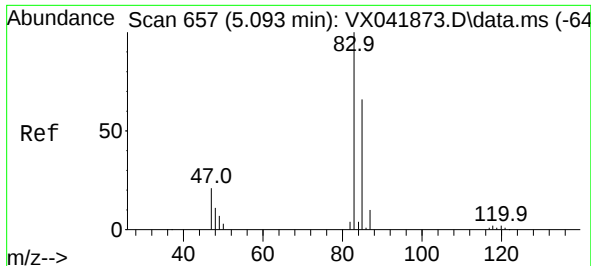


#18
Methylene Chloride
Concen: 0.713 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21



Tgt Ion: 84 Resp: 984
Ion Ratio Lower Upper
84 100
49 116.4 85.3 127.9
51 40.9 28.5 42.7
86 79.9 49.6 74.4#





#25

Chloroform

Concen: 0.356 ug/l

RT: 5.080 min Scan# 61

Delta R.T. -0.012 min

Lab File: VX042561.D

Acq: 25 Jul 2024 12:21

Instrument :

MSVOA_X

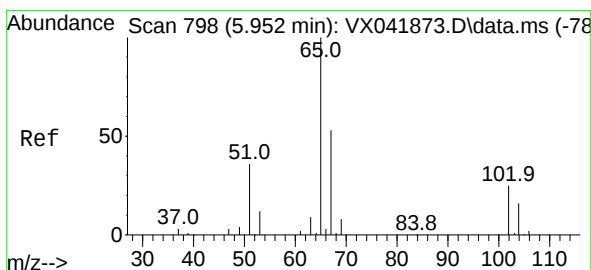
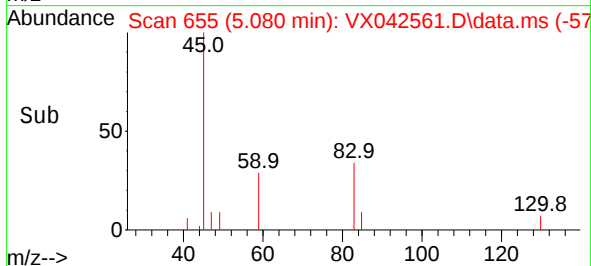
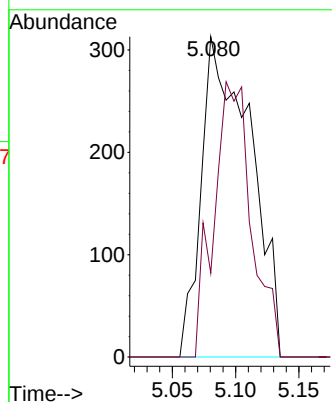
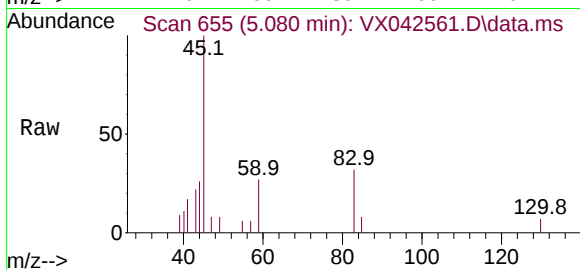
ClientSampleId :

Tgt Ion: 83 Resp: 845

Ion Ratio Lower Upper

83 100

85 26.2 52.7 79.1#



#27

1,2-Dichloroethane-d4

Concen: 29.911 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.006 min

Lab File: VX042561.D

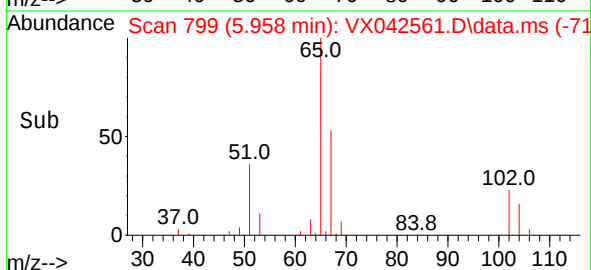
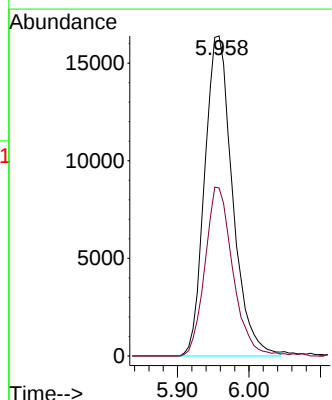
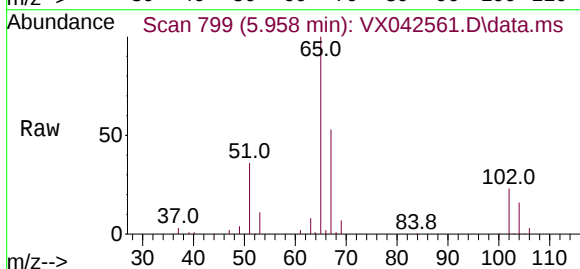
Acq: 25 Jul 2024 12:21

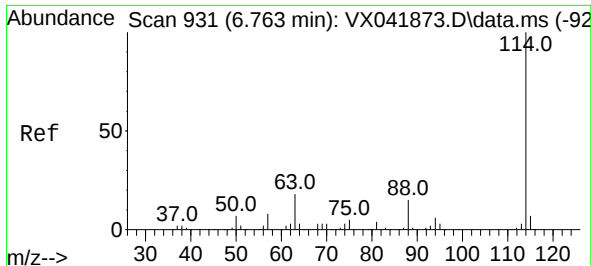
Tgt Ion: 65 Resp: 44380

Ion Ratio Lower Upper

65 100

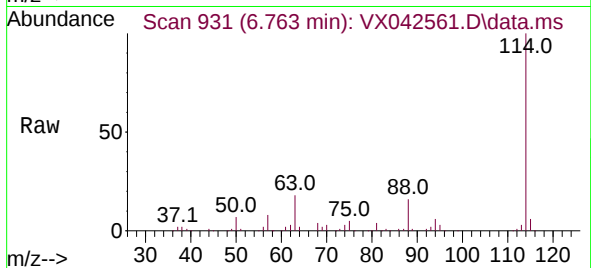
67 52.8 43.4 65.0



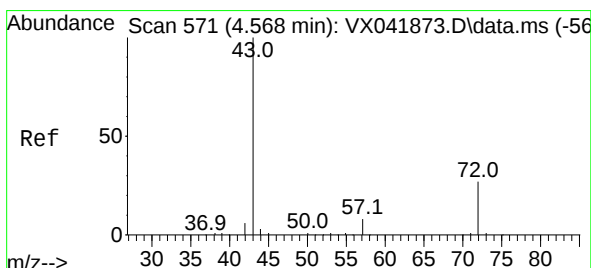
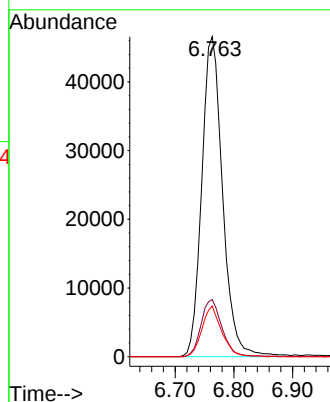
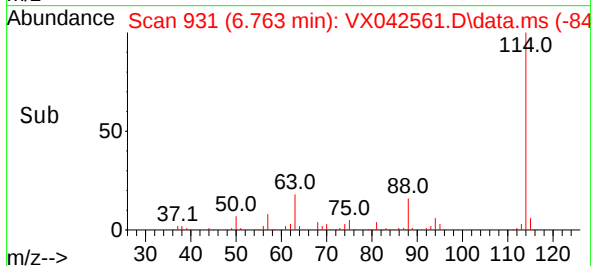


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21

Instrument :
MSVOA_X
ClientSampleId :

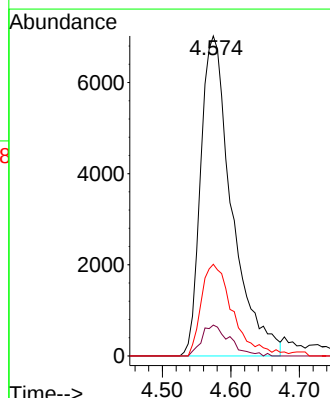
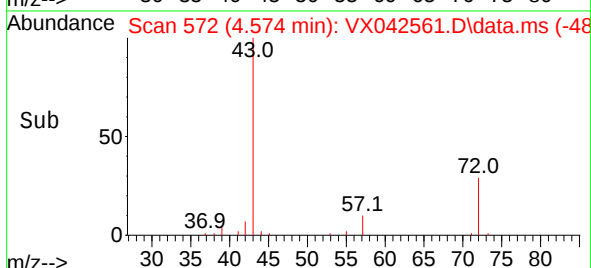
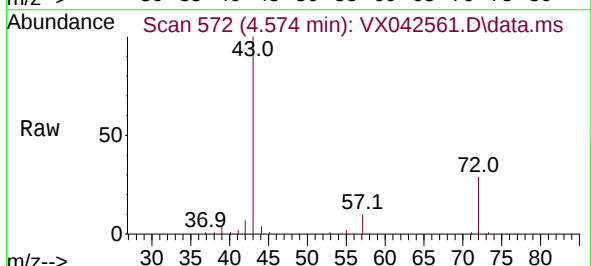


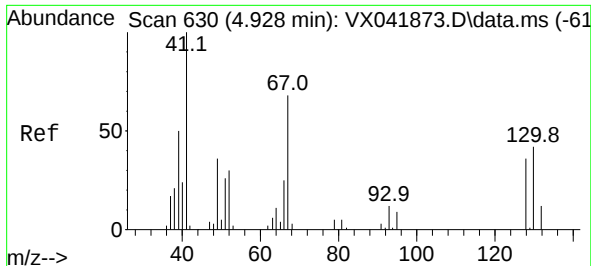
Tgt Ion:114 Resp: 114811
Ion Ratio Lower Upper
114 100
63 17.7 14.6 21.8
88 14.9 11.8 17.8



#30
2-Butanone
Concen: 22.165 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.006 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21

Tgt Ion: 43 Resp: 22155
Ion Ratio Lower Upper
43 100
57 8.5 6.5 9.7
72 28.7 22.0 33.0





#35

Methacrylonitrile

Concen: 1.360 ug/l

RT: 5.044 min Scan# 649

Delta R.T. 0.116 min

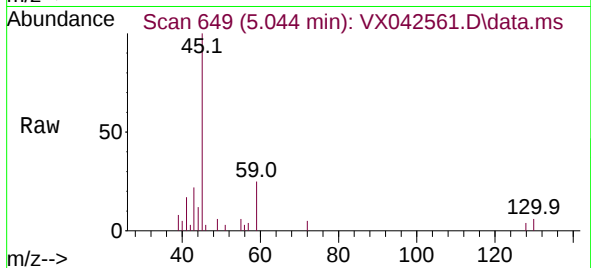
Lab File: VX042561.D

Acq: 25 Jul 2024 12:21

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 41 Resp: 1341

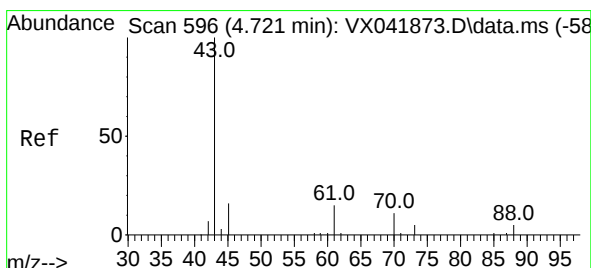
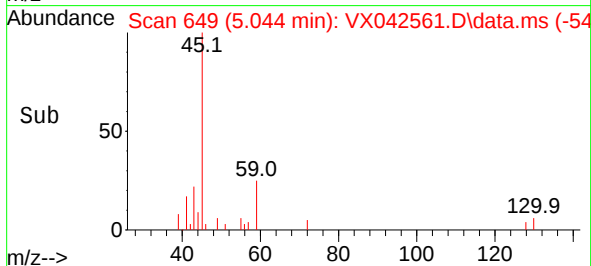
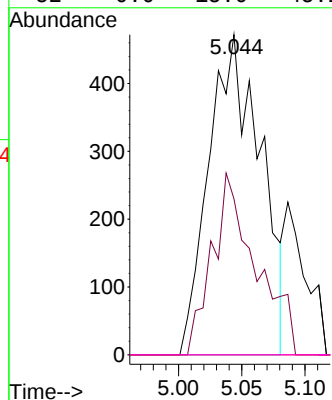
Ion Ratio Lower Upper

41 100

39 48.7 25.2 75.6

67 0.0 34.2 102.5#

52 0.0 15.0 45.1#



#43

Ethyl Acetate

Concen: 0.267 ug/l

RT: 4.727 min Scan# 597

Delta R.T. 0.006 min

Lab File: VX042561.D

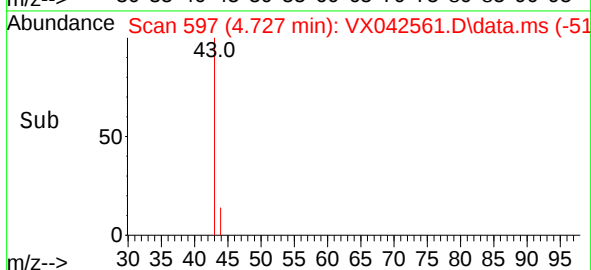
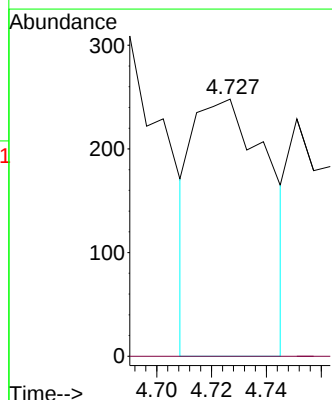
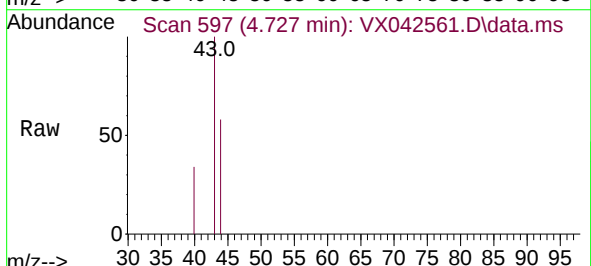
Acq: 25 Jul 2024 12:21

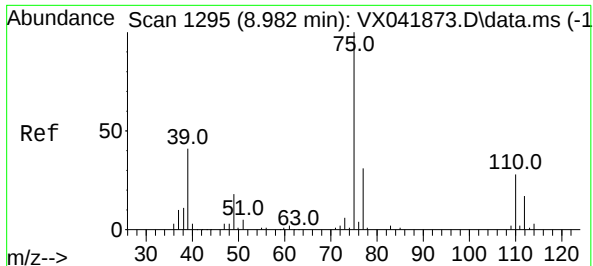
Tgt Ion: 43 Resp: 474

Ion Ratio Lower Upper

43 100

45 0.0 12.4 18.6#





#48

t-1,3-Dichloropropene

Concen: 3.358 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.268 min

Lab File: VX042561.D

Acq: 25 Jul 2024 12:21

Instrument :

MSVOA_X

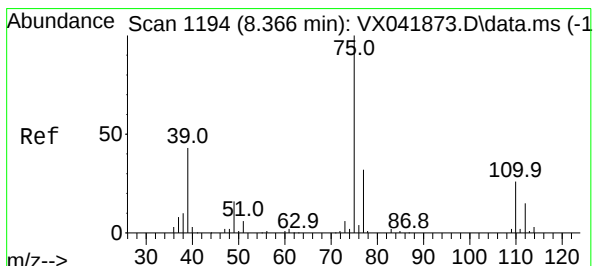
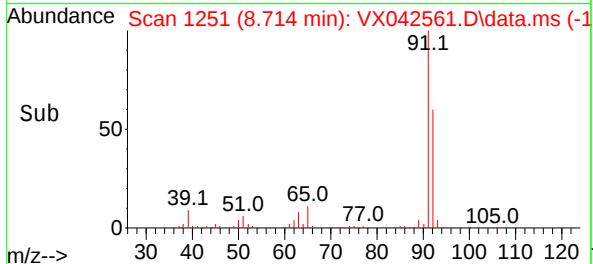
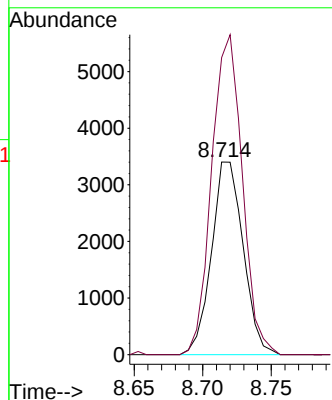
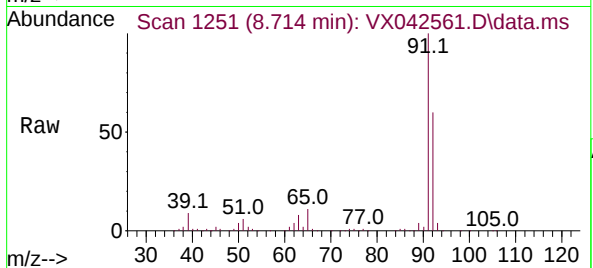
ClientSampleId :

Tgt Ion: 75 Resp: 5477

Ion Ratio Lower Upper

75 100

77 154.2 25.1 37.7#



#49

cis-1,3-Dichloropropene

Concen: 2.988 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.347 min

Lab File: VX042561.D

Acq: 25 Jul 2024 12:21

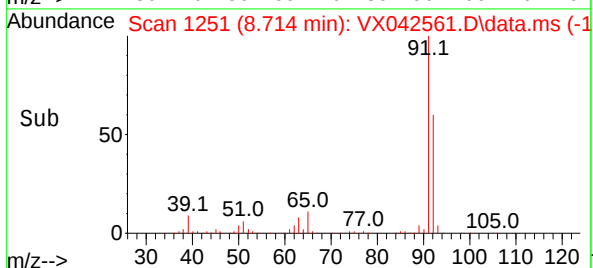
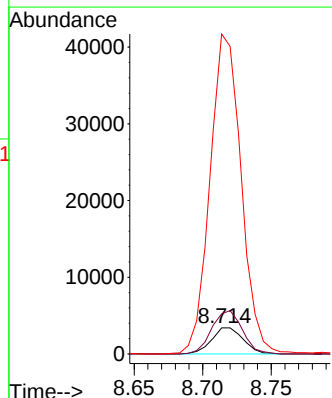
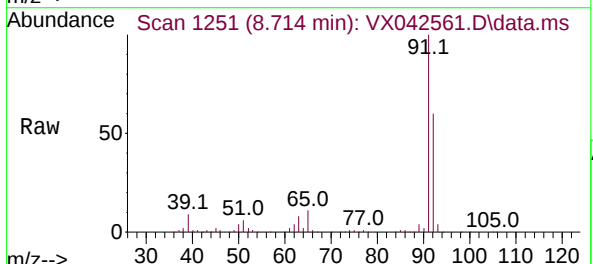
Tgt Ion: 75 Resp: 5477

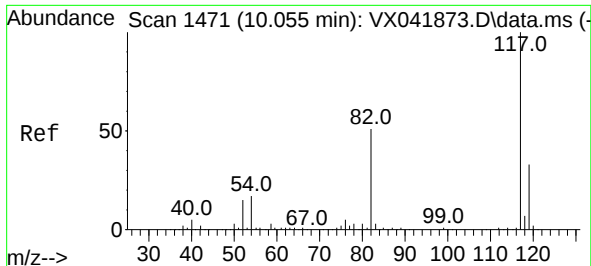
Ion Ratio Lower Upper

75 100

77 154.2 25.8 38.8#

39 1221.5 34.8 52.2#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX042561.D

Acq: 25 Jul 2024 12:21

Instrument :

MSVOA_X

ClientSampleId :

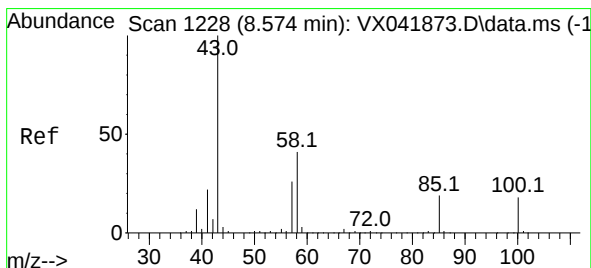
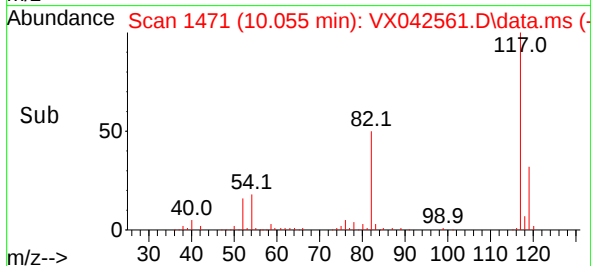
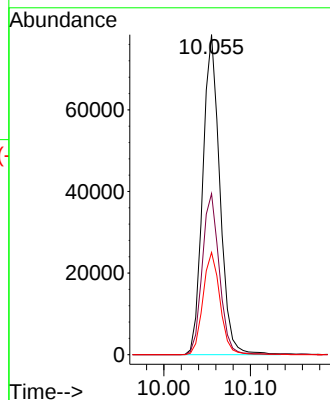
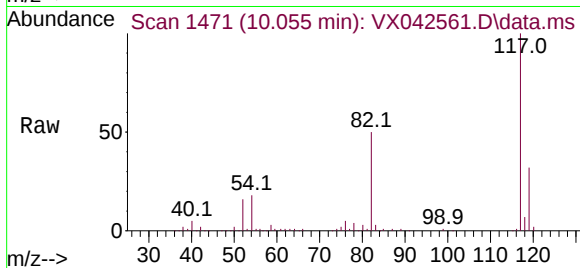
Tgt Ion:117 Resp: 107365

Ion Ratio Lower Upper

117 100

82 50.3 41.1 61.7

119 32.0 26.1 39.1



#58

4-Methyl-2-Pentanone

Concen: 3.641 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX042561.D

Acq: 25 Jul 2024 12:21

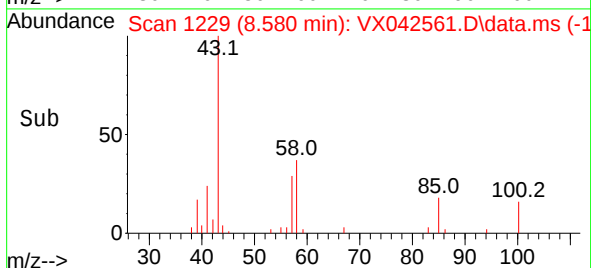
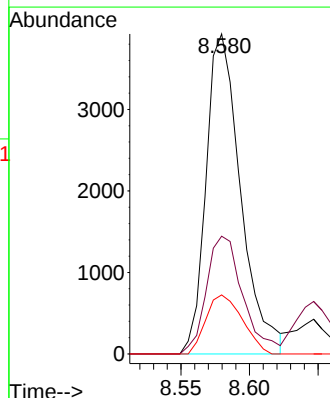
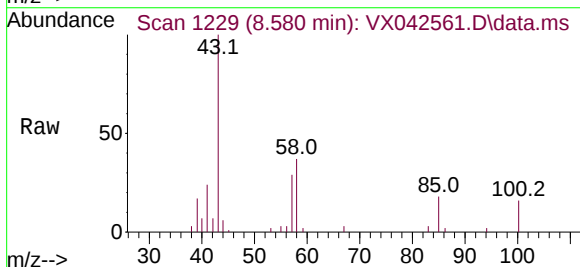
Tgt Ion: 43 Resp: 6889

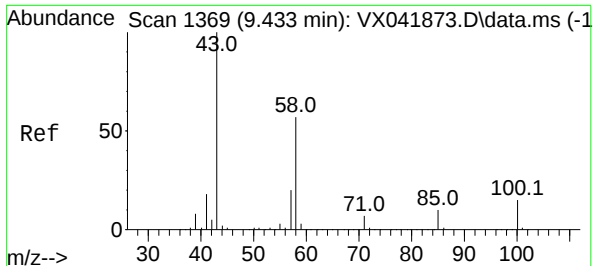
Ion Ratio Lower Upper

43 100

58 38.9 33.2 49.8

85 19.5 15.5 23.3

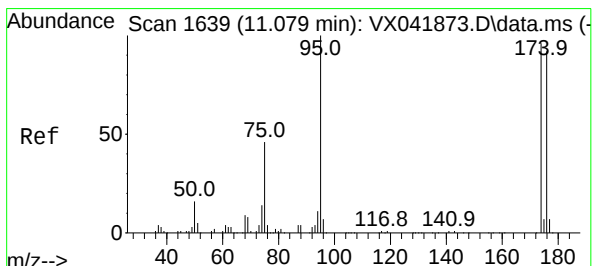
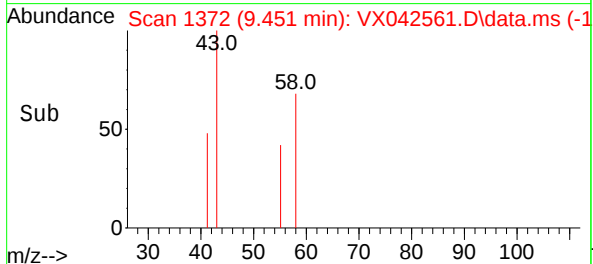
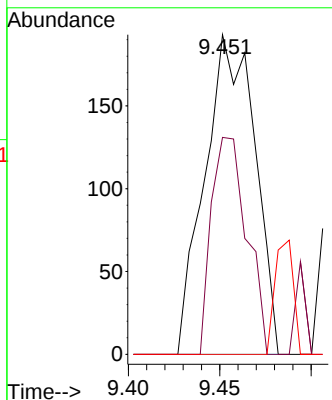
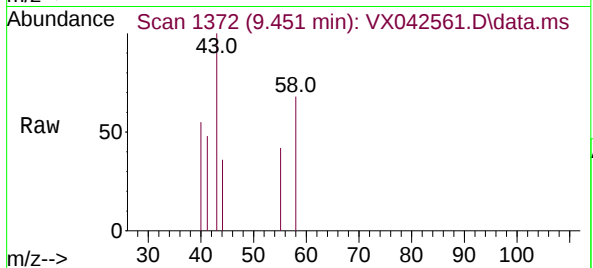




#59
2-Hexanone
Concen: 0.248 ug/l
RT: 9.451 min Scan# 14
Delta R.T. 0.018 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21

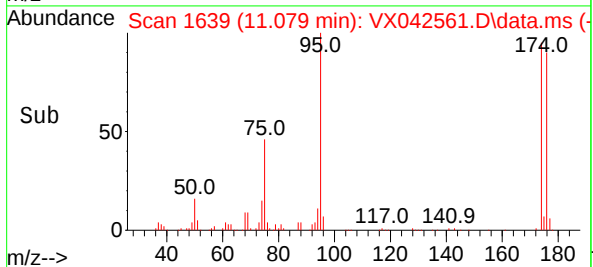
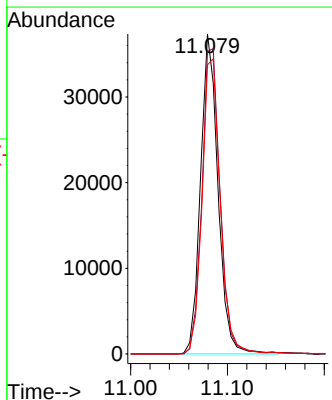
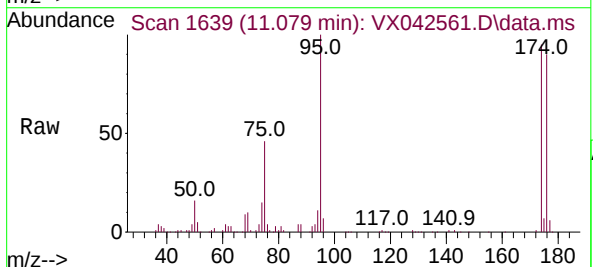
Instrument :
MSVOA_X
ClientSampleId :

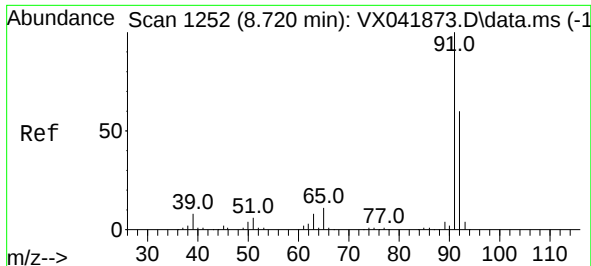
Tgt Ion: 43 Resp: 368
Ion Ratio Lower Upper
43 100
58 48.1 46.0 69.0
57 13.0 15.8 23.6#



#60
4-Bromofluorobenzene
Concen: 28.141 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21

Tgt Ion: 95 Resp: 47010
Ion Ratio Lower Upper
95 100
174 99.4 78.9 118.3
176 96.0 77.1 115.7





#62

Toluene

Concen: 149.221 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. -0.000 min

Lab File: VX042561.D

Acq: 25 Jul 2024 12:21

Instrument :

MSVOA_X

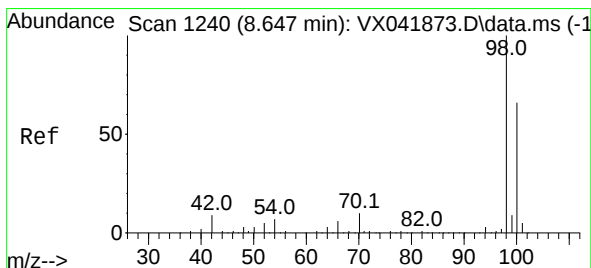
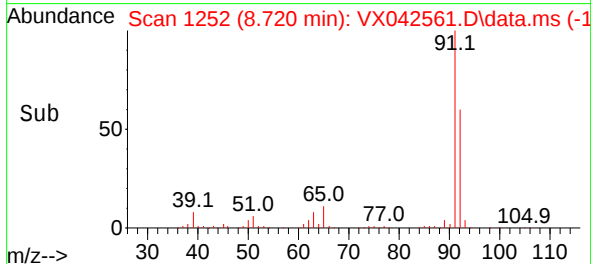
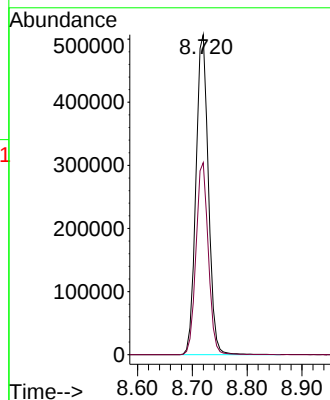
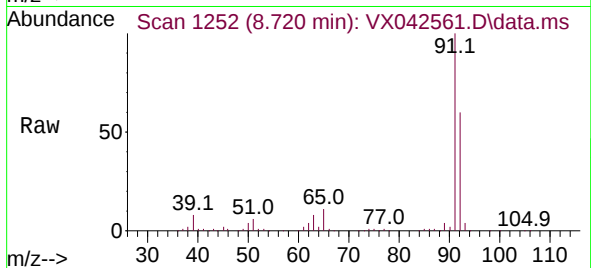
ClientSampleId :

Tgt Ion: 91 Resp: 800977

Ion Ratio Lower Upper

91 100

92 59.4 47.4 71.2



#63

Toluene-d8

Concen: 29.233 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX042561.D

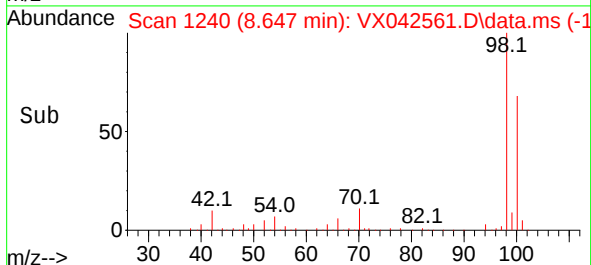
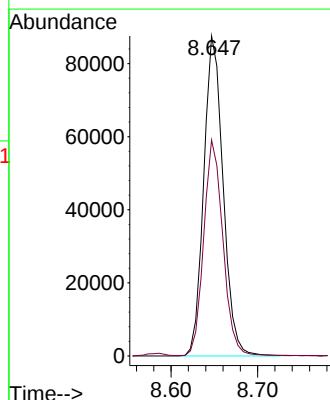
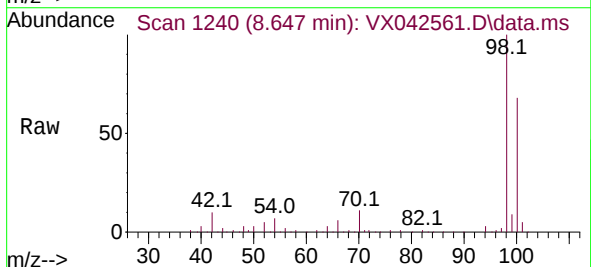
Acq: 25 Jul 2024 12:21

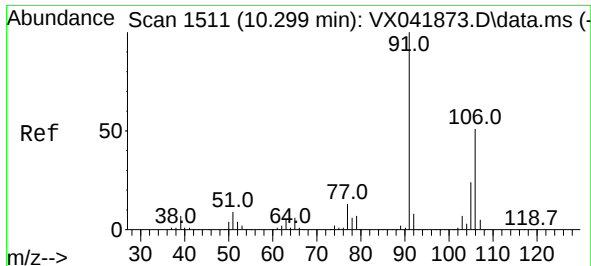
Tgt Ion: 98 Resp: 136342

Ion Ratio Lower Upper

98 100

100 66.8 52.7 79.1





#67

m/p-Xylenes

Concen: 0.213 ug/l

RT: 10.305 min Scan# 1511

Delta R.T. 0.006 min

Lab File: VX042561.D

Acq: 25 Jul 2024 12:21

Instrument :

MSVOA_X

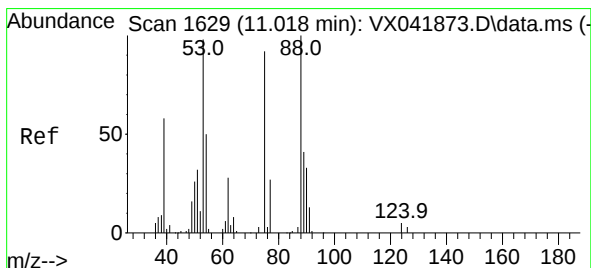
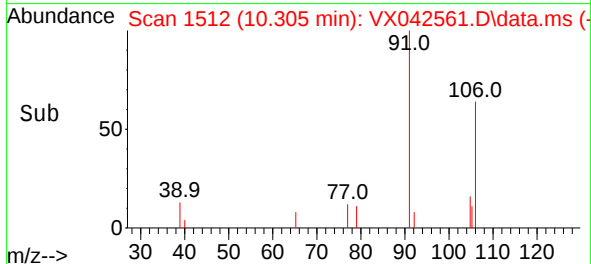
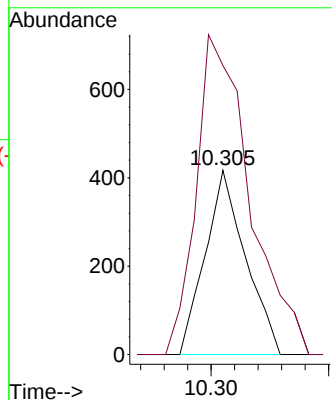
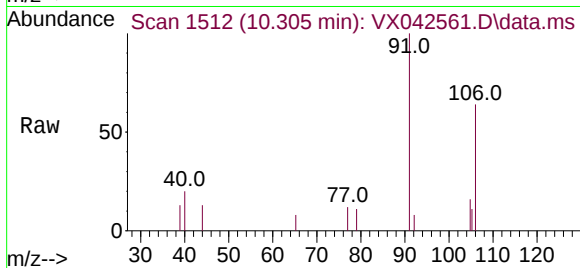
ClientSampleId :

Tgt Ion:106 Resp: 498

Ion Ratio Lower Upper

106 100

91 229.5 157.0 235.6



#77

t-1,4-Dichloro-2-butene

Concen: 36.690 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX042561.D

Acq: 25 Jul 2024 12:21

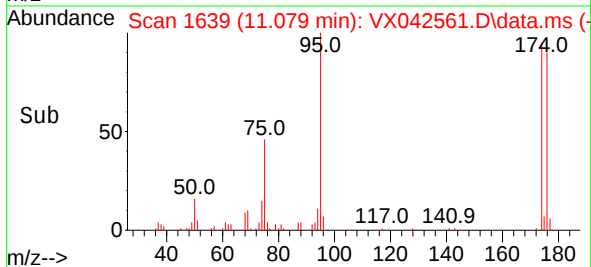
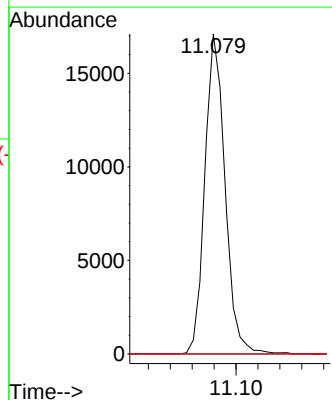
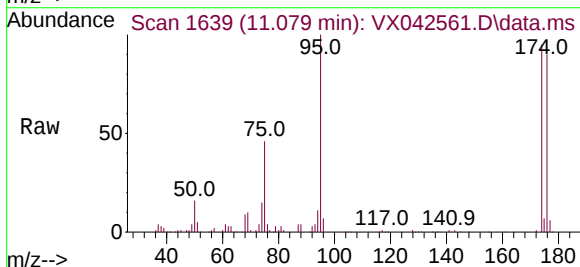
Tgt Ion: 75 Resp: 21819

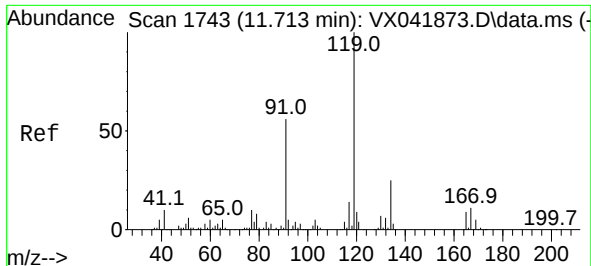
Ion Ratio Lower Upper

75 100

53 0.0 53.4 160.2#

89 0.0 22.5 67.5#





#79

tert-butylbenzene

Concen: 0.798 ug/l

RT: 12.006 min Scan# 1

Delta R.T. 0.293 min

Lab File: VX042561.D

Acq: 25 Jul 2024 12:21

Instrument :

MSVOA_X

ClientSampleId :

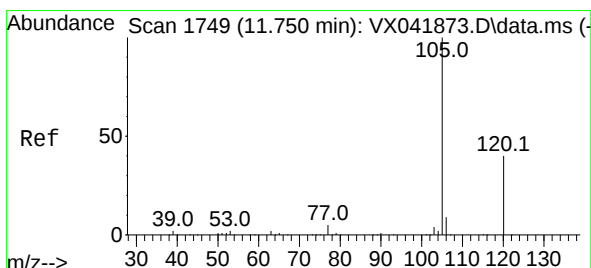
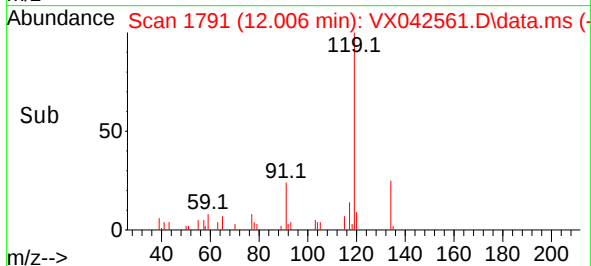
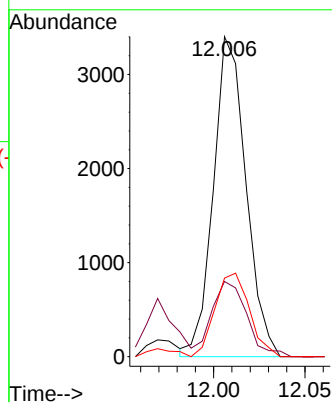
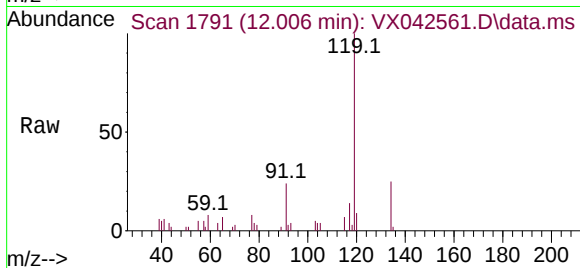
Tgt Ion:119 Resp: 4222

Ion Ratio Lower Upper

119 100

91 25.4 0.0 106.0

134 27.6 0.0 49.4



#80

1,2,4-Trimethylbenzene

Concen: 0.484 ug/l

RT: 11.762 min Scan# 1751

Delta R.T. 0.012 min

Lab File: VX042561.D

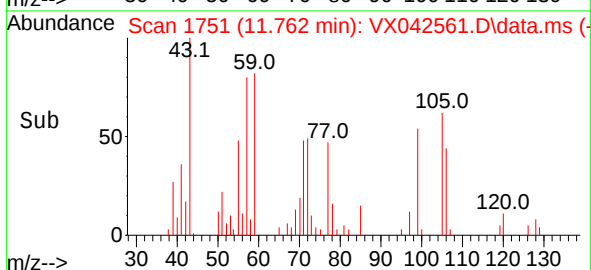
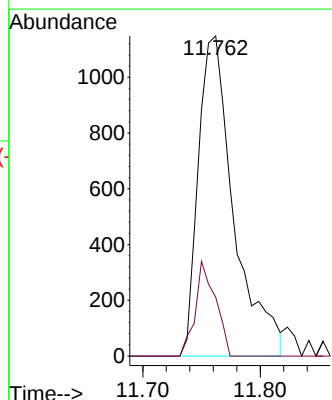
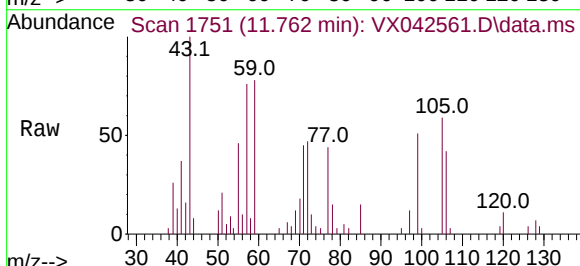
Acq: 25 Jul 2024 12:21

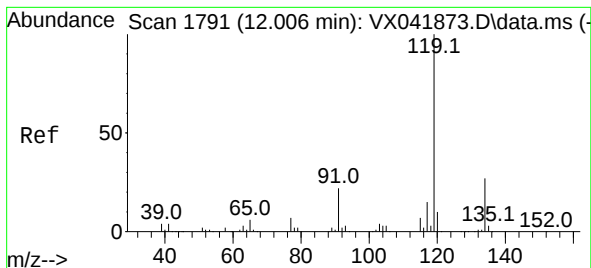
Tgt Ion:105 Resp: 2414

Ion Ratio Lower Upper

105 100

120 16.9 0.0 96.2





#82

p-Isopropyltoluene

Concen: 0.779 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX042561.D

Acq: 25 Jul 2024 12:21

Instrument :

MSVOA_X

ClientSampleId :

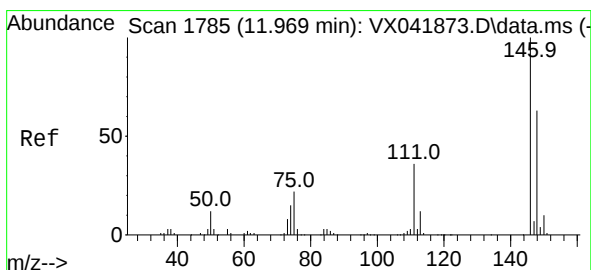
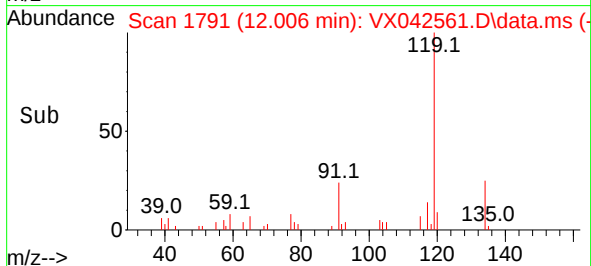
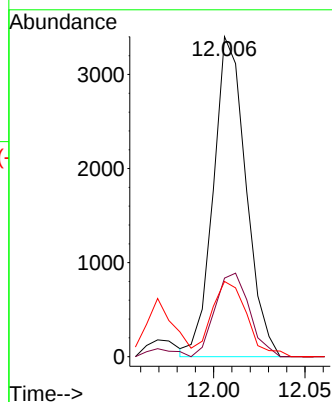
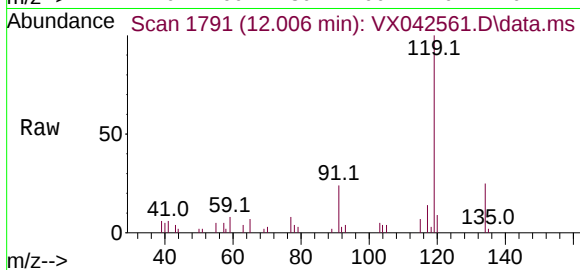
Tgt Ion:119 Resp: 4222

Ion Ratio Lower Upper

119 100

134 27.6 0.0 54.0

91 25.4 0.0 42.2



#83

1,3-Dichlorobenzene

Concen: 1.528 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. 0.073 min

Lab File: VX042561.D

Acq: 25 Jul 2024 12:21

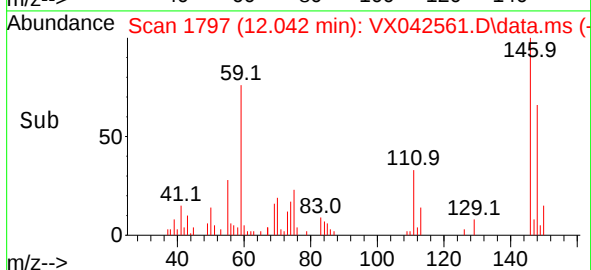
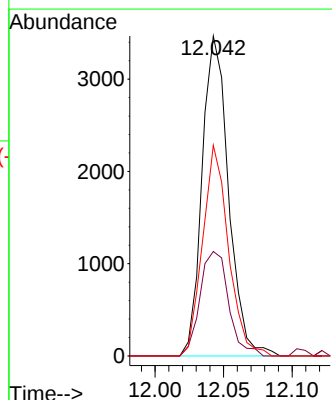
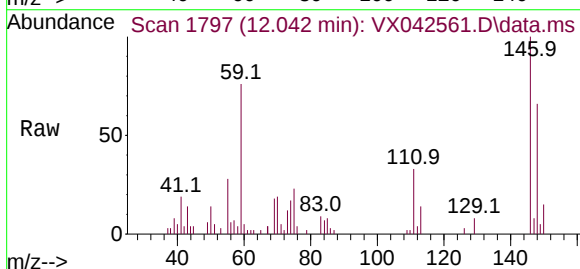
Tgt Ion:146 Resp: 4656

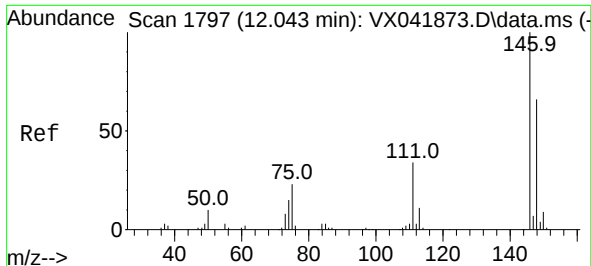
Ion Ratio Lower Upper

146 100

111 35.3 18.0 54.0

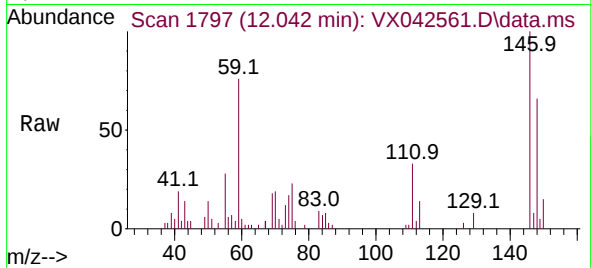
148 64.3 31.9 95.7



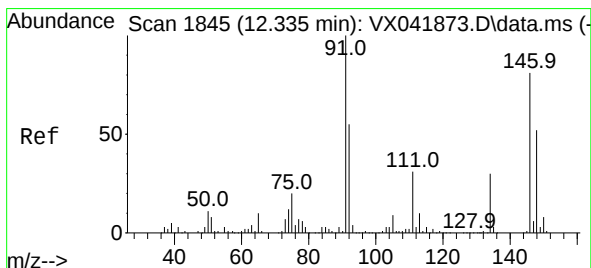
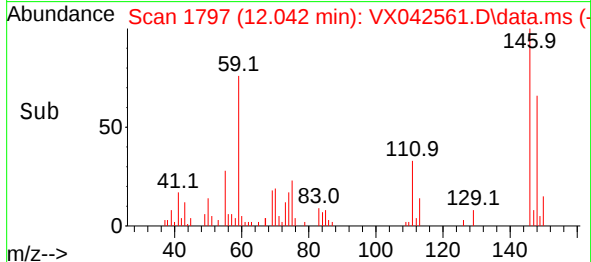
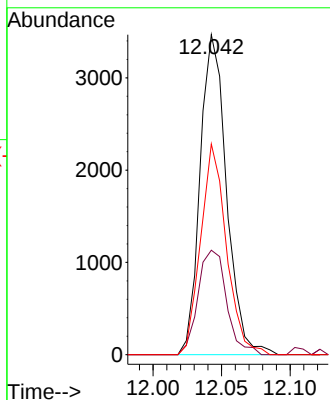


#84
1,4-Dichlorobenzene
Concen: 1.539 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21

Instrument :
MSVOA_X
ClientSampleId :

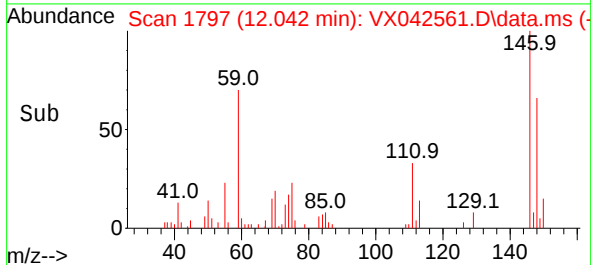
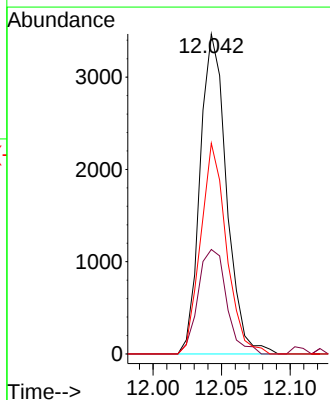
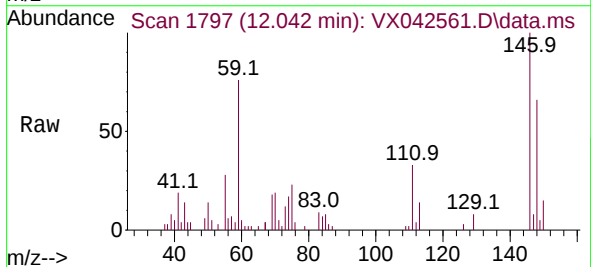


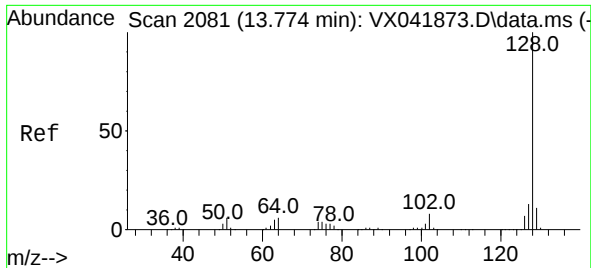
Tgt Ion:146 Resp: 4656
Ion Ratio Lower Upper
146 100
111 35.3 17.4 52.3
148 64.3 32.3 96.9



#87
1,2-Dichlorobenzene
Concen: 1.512 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.293 min
Lab File: VX042561.D
Acq: 25 Jul 2024 12:21

Tgt Ion:146 Resp: 4656
Ion Ratio Lower Upper
146 100
111 35.3 19.1 57.3
148 64.3 32.4 97.0





#91

Naphthalene

Concen: 0.232 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

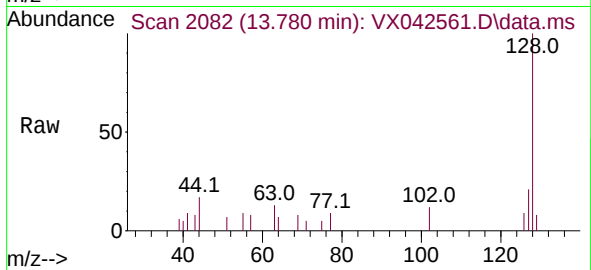
Lab File: VX042561.D

Acq: 25 Jul 2024 12:21

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:128 Resp: 1441

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

129 6.7 8.7 13.1#

