

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112124\
 Data File : VL041714.D
 Acq On : 21 Nov 2024 14:12
 Operator : SY/MD
 Sample : P4633-01DL 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

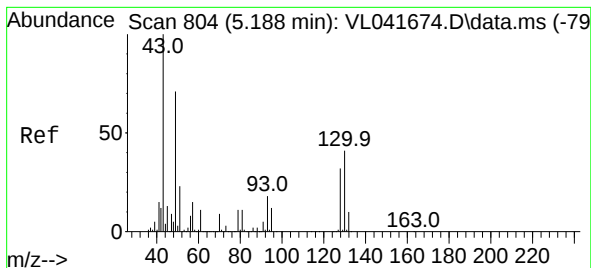
Instrument :
 MSVOA_L
 ClientSampleId :
 E070-1100DL

Quant Time: Nov 22 01:07:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Nov 22 01:00:55 2024
 Response via : Initial Calibration

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

Internal Standards							
1) Bromochloromethane		5.230	49	1043249	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		6.690	114	2930669	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.504	117	2692925	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.812	95	2181457	10.994	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 109.900%	
Target Compounds							
							Qvalue
4) Chloromethane		2.851	50	14851	0.206	ppbv	95
5) Vinyl Chloride		3.237	62	25032	0.386	ppbv #	1
7) Chloroethane		3.237	64	591710	25.032	ppbv	98
10) Heptane		7.619	43	1604286	12.088	ppbv	99
13) Ethanol		3.288	45	1816	0.501	ppbv #	40
15) Acetone		3.517	43	135154	1.053	ppbv	90
17) tert-Butyl alcohol		3.919	59	37245	0.331	ppbv #	72
18) 1,1-Dichloroethene		3.919	96	514801	9.832	ppbv	97
20) Methylene Chloride		3.970	84	13688	0.290	ppbv	89
23) Vinyl Acetate		4.661	43	3624	0.064	ppbv #	77
30) Cyclohexane		6.677	84	4721	0.054	ppbv #	1
35) Carbon Tetrachloride		6.533	117	2096970	13.562	ppbv	98
39) 1,2-Dichloropropane		7.285	63	8788	0.102	ppbv #	23
42) Bromodichloromethane		7.288	83	1571344	9.230	ppbv	99
43) Methyl Methacrylate		7.600	69	13341	0.175	ppbv #	1
44) 2,2,4-Trimethylpentane		7.619	57	784336	2.132	ppbv #	1
53) Toluene		9.259	91	4863423	21.298	ppbv	99
58) Ethyl Benzene		12.413	91	5865203	19.867	ppbv #	64
59) m/p-Xylene		12.413	91	5865203	22.185	ppbv	95
60) o-Xylene		13.095	91	4483154	17.783	ppbv	100
61) Styrene		13.095	104	98730	0.949	ppbv #	1
77) 1,2-Dichlorobenzene		17.179	146	2731245	14.901	ppbv	100
81) 1,2,4-Trichlorobenzene		21.182	180	1359517	11.723	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.230 min Scan# 81

Delta R.T. 0.009 min

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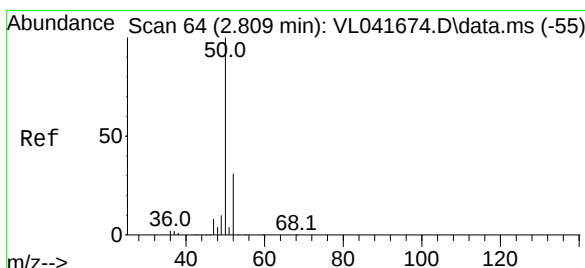
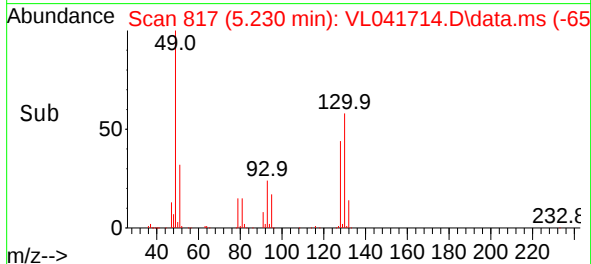
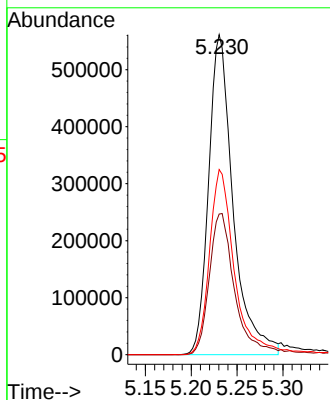
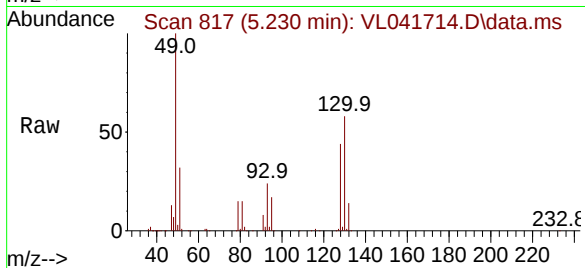
Tgt Ion: 49 Resp: 1043249

Ion Ratio Lower Upper

49 100

128 47.4 23.8 71.2

130 61.0 30.1 90.5



#4

Chloromethane

Concen: 0.206 ppbv

RT: 2.851 min Scan# 77

Delta R.T. 0.010 min

Lab File: VL041714.D

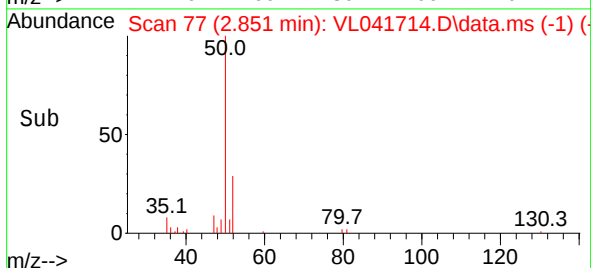
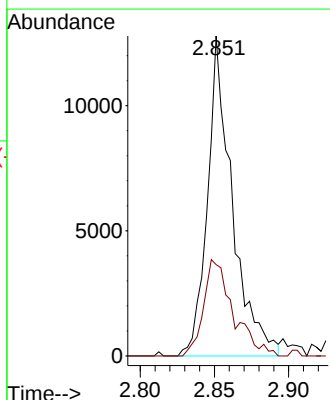
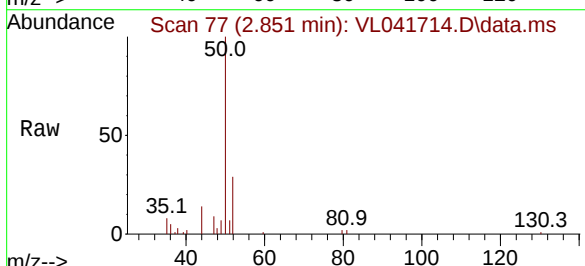
Acq: 21 Nov 2024 14:12

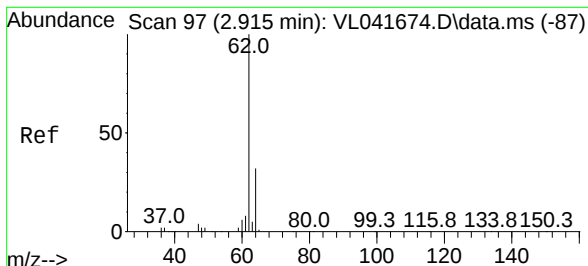
Tgt Ion: 50 Resp: 14851

Ion Ratio Lower Upper

50 100

52 28.6 24.9 37.3

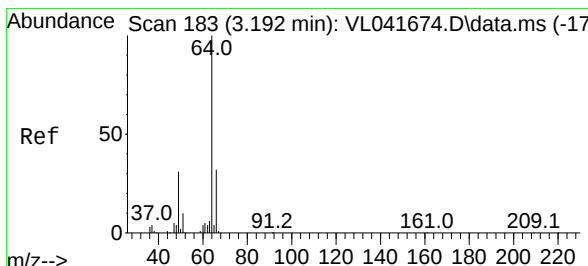
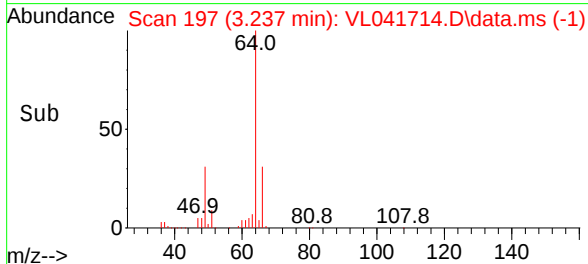
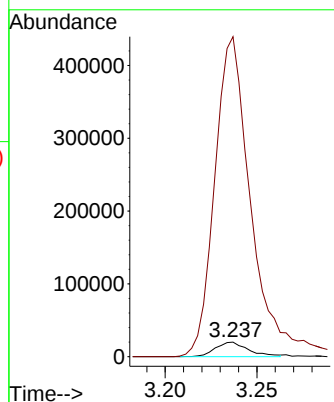
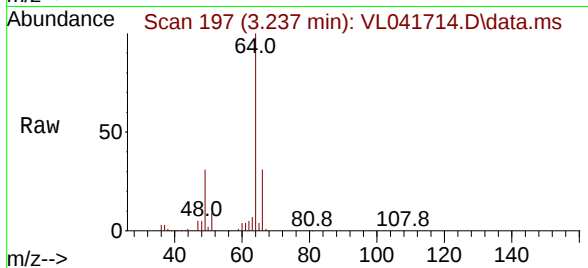




#5
 Vinyl Chloride
 Concen: 0.386 ppbv
 RT: 3.237 min Scan# 197
 Delta R.T. 0.289 min
 Lab File: VL041714.D
 Acq: 21 Nov 2024 14:12

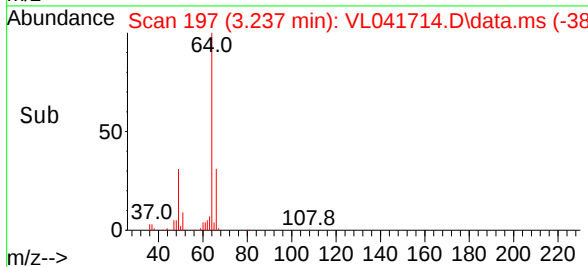
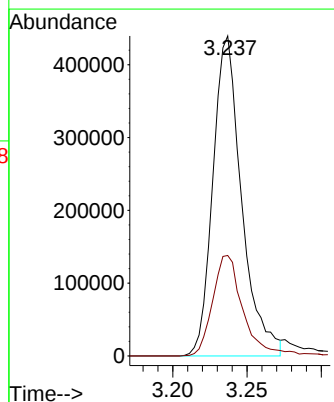
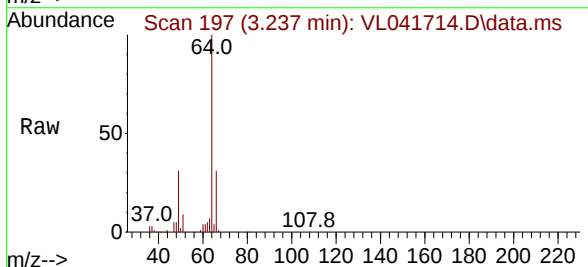
Instrument :
 MSVOA_L
 ClientSampleId :
 E070-1100DL

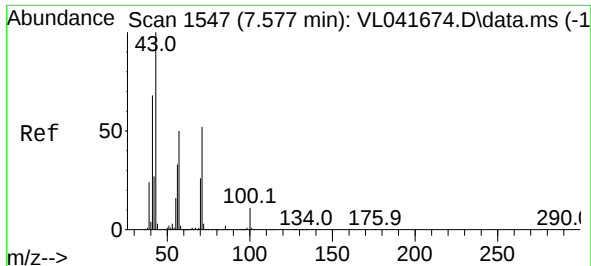
Tgt Ion: 62 Resp: 25032
 Ion Ratio Lower Upper
 62 100
 64 2186.5 25.4 38.2#



#7
 Chloroethane
 Concen: 25.032 ppbv
 RT: 3.237 min Scan# 197
 Delta R.T. 0.010 min
 Lab File: VL041714.D
 Acq: 21 Nov 2024 14:12

Tgt Ion: 64 Resp: 591710
 Ion Ratio Lower Upper
 64 100
 66 31.4 25.9 38.9





#10

Heptane

Concen: 12.088 ppbv

RT: 7.619 min Scan# 1

Delta R.T. 0.010 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA_L

ClientSampleId :

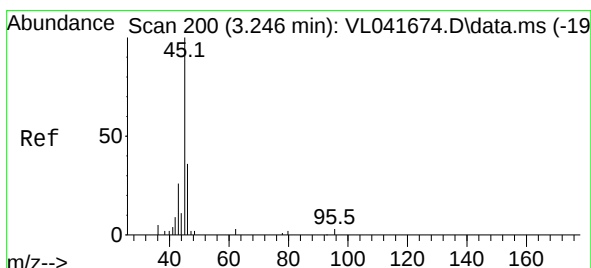
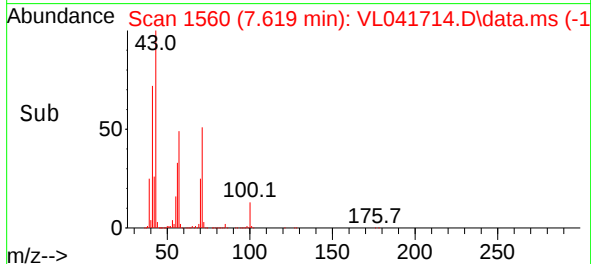
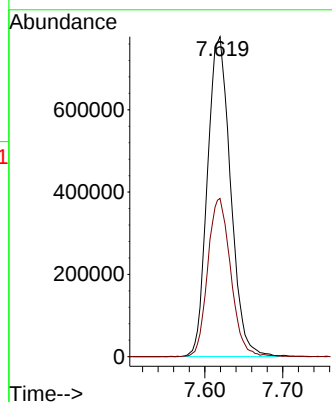
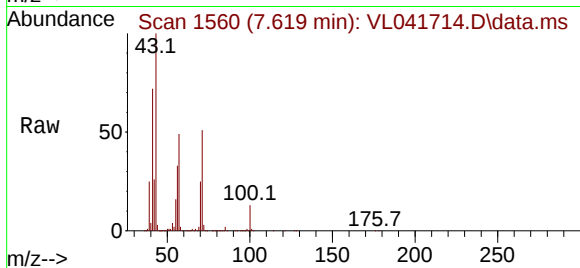
E070-1100DL

Tgt Ion: 43 Resp: 1604286

Ion Ratio Lower Upper

43 100

57 49.3 40.0 60.0



#13

Ethanol

Concen: 0.501 ppbv

RT: 3.288 min Scan# 213

Delta R.T. 0.013 min

Lab File: VL041714.D

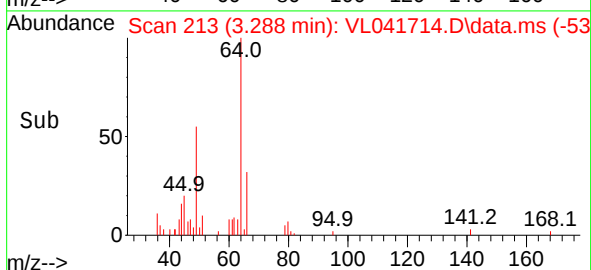
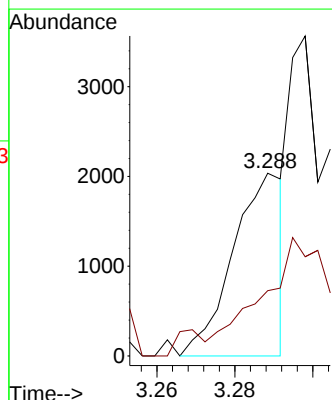
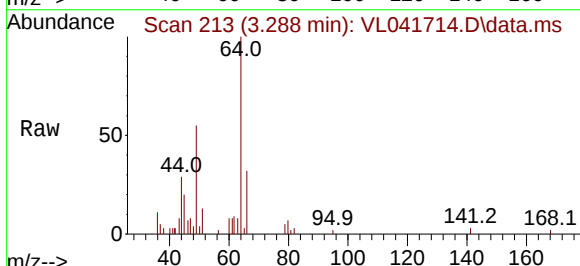
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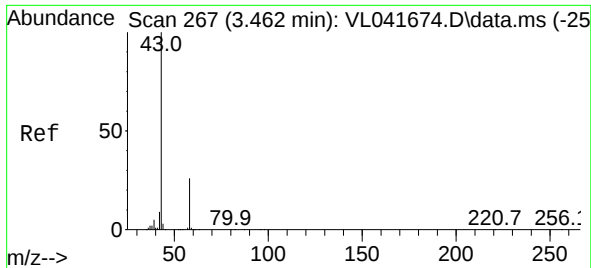
Tgt Ion: 45 Resp: 1816

Ion Ratio Lower Upper

45 100

46 0.0 13.8 55.2#

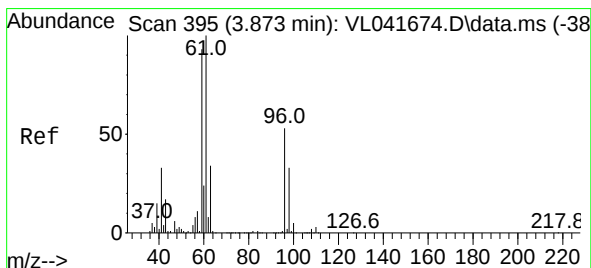
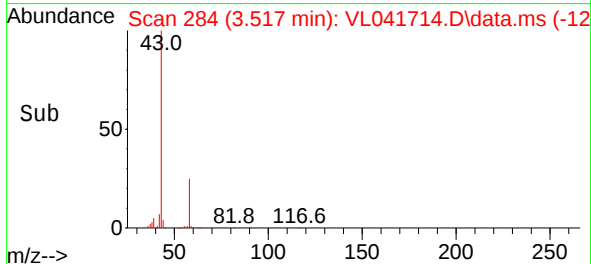
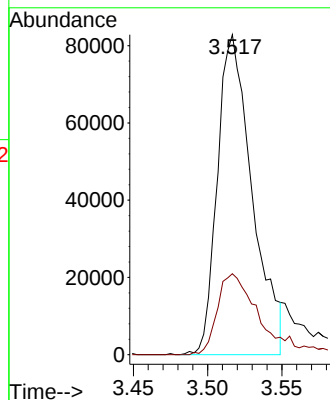
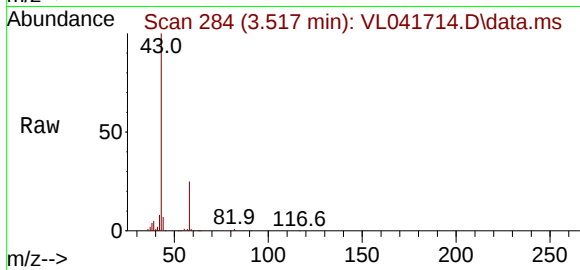




#15
Acetone
Concen: 1.053 ppbv
RT: 3.517 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL041714.D
Acq: 21 Nov 2024 14:12

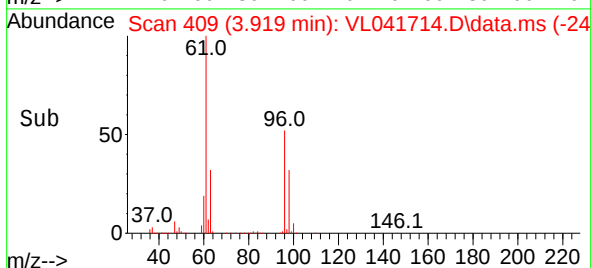
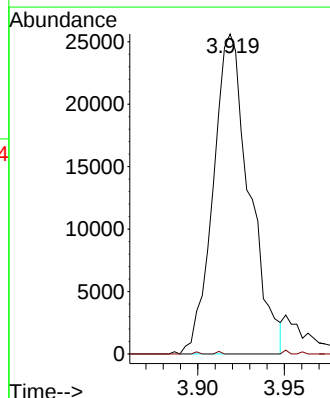
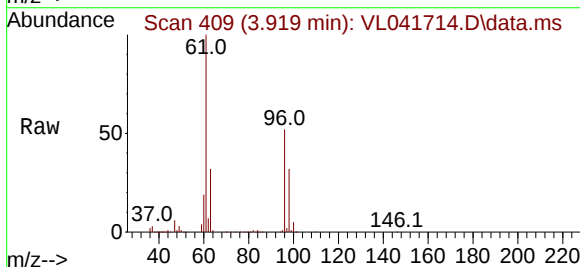
Instrument :
MSVOA_L
ClientSampleId :
E070-1100DL

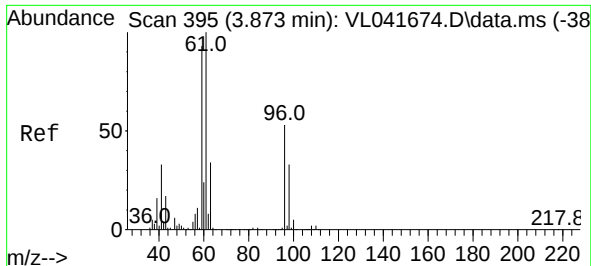
Tgt Ion: 43 Resp: 135154
Ion Ratio Lower Upper
43 100
58 31.9 21.4 32.0



#17
tert-Butyl alcohol
Concen: 0.331 ppbv
RT: 3.919 min Scan# 409
Delta R.T. 0.013 min
Lab File: VL041714.D
Acq: 21 Nov 2024 14:12

Tgt Ion: 59 Resp: 37245
Ion Ratio Lower Upper
59 100
57 0.2 8.5 12.7#





#18

1,1-Dichloroethene

Concen: 9.832 ppbv

RT: 3.919 min Scan# 409

Delta R.T. 0.010 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA_L

ClientSampleId :

E070-1100DL

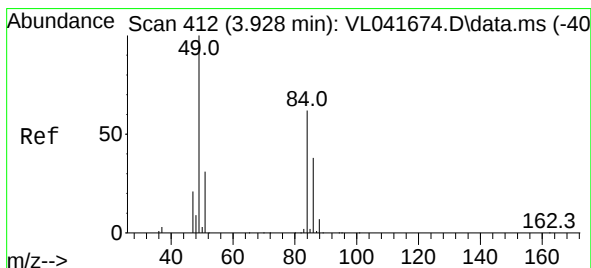
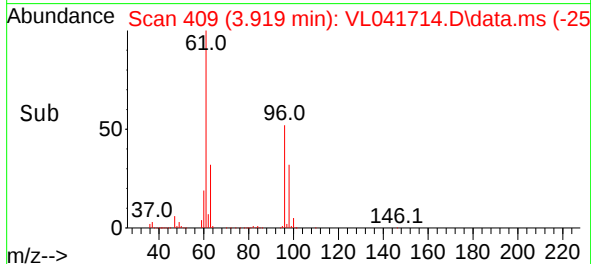
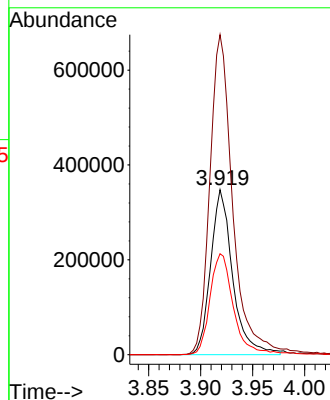
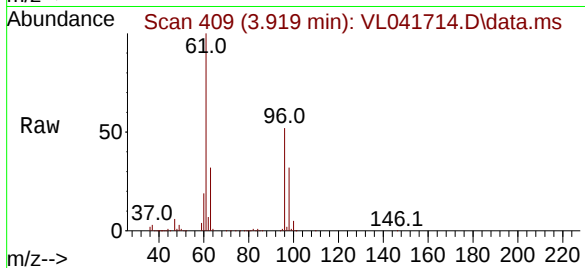
Tgt Ion: 96 Resp: 514801

Ion Ratio Lower Upper

96 100

61 194.0 150.7 226.1

98 61.1 49.4 74.2



#20

Methylene Chloride

Concen: 0.290 ppbv

RT: 3.970 min Scan# 425

Delta R.T. 0.010 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Tgt Ion: 84 Resp: 13688

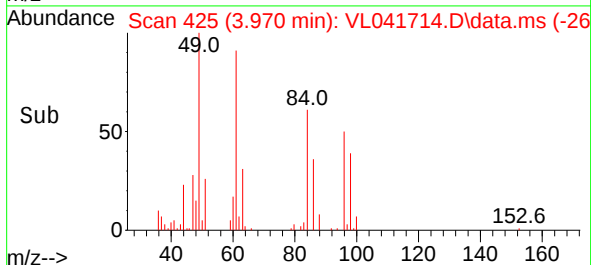
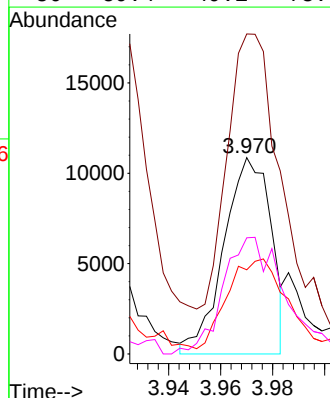
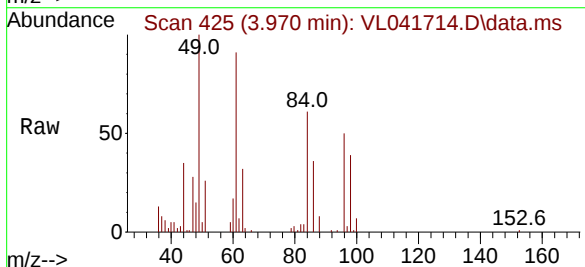
Ion Ratio Lower Upper

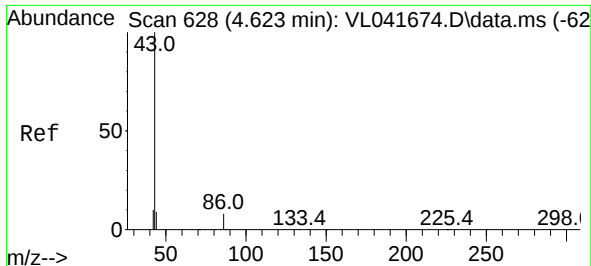
84 100

49 144.3 129.7 194.5

51 40.1 39.8 59.6

86 59.4 49.1 73.7





#23

Vinyl Acetate

Concen: 0.064 ppbv

RT: 4.661 min Scan# 640

Delta R.T. 0.006 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA_1

ClientSampleId :

E070-1100DL

Tgt Ion: 43 Resp: 3624

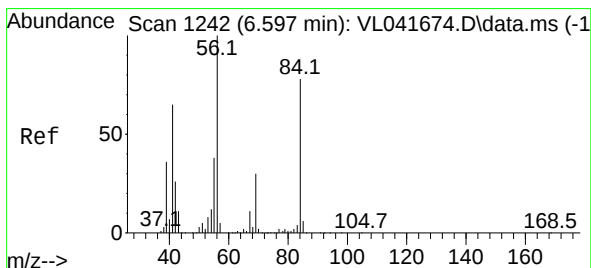
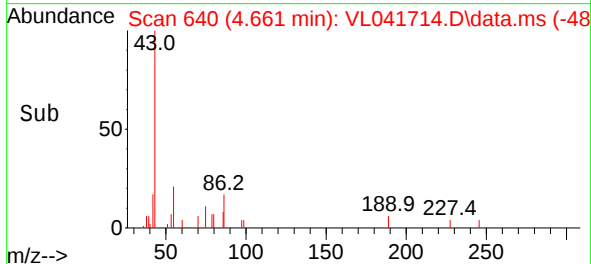
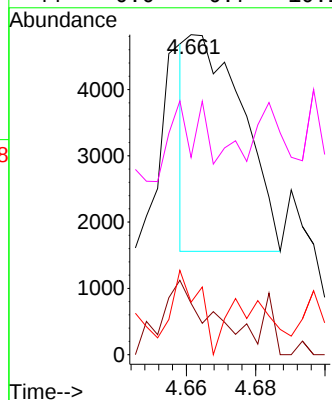
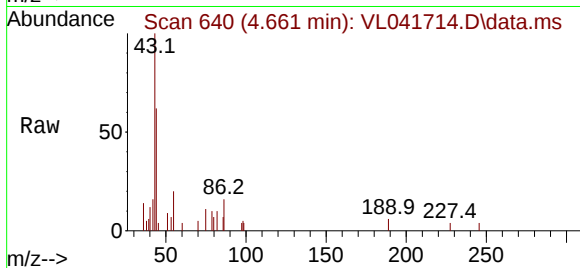
Ion Ratio Lower Upper

43 100

86 23.7 5.3 7.9#

42 12.5 8.5 12.7

44 0.0 6.7 10.1#



#30

Cyclohexane

Concen: 0.054 ppbv

RT: 6.677 min Scan# 1267

Delta R.T. 0.045 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

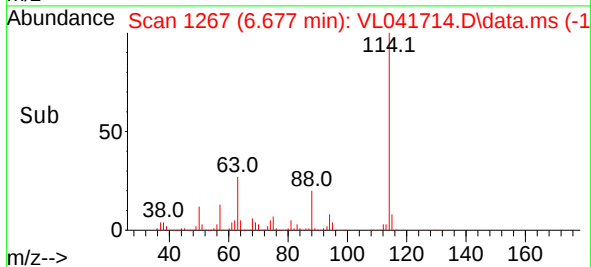
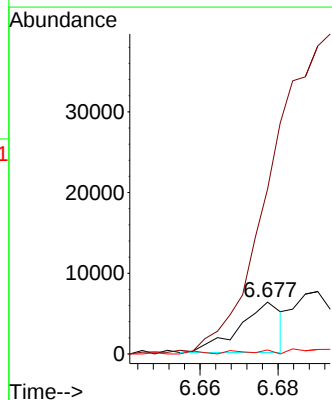
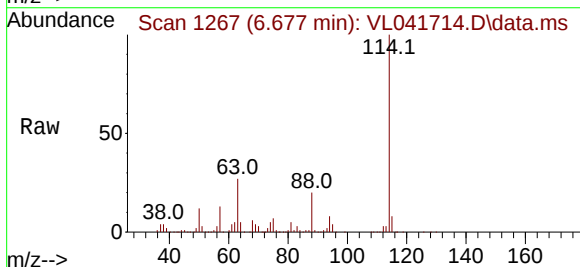
Tgt Ion: 84 Resp: 4721

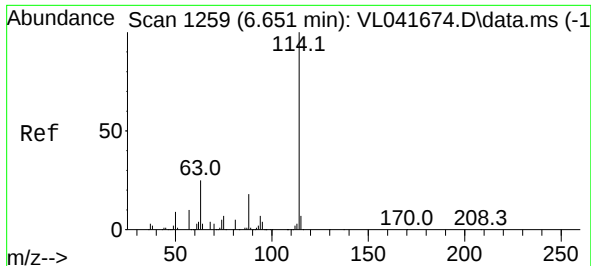
Ion Ratio Lower Upper

84 100

56 1662.0 110.8 166.2#

41 21.8 70.0 105.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.690 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

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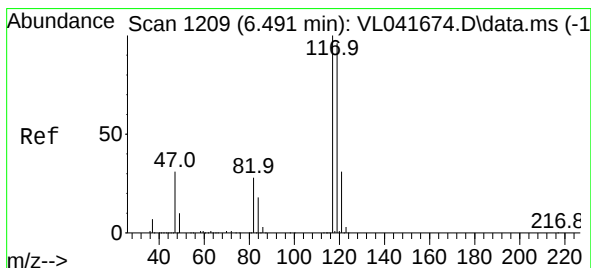
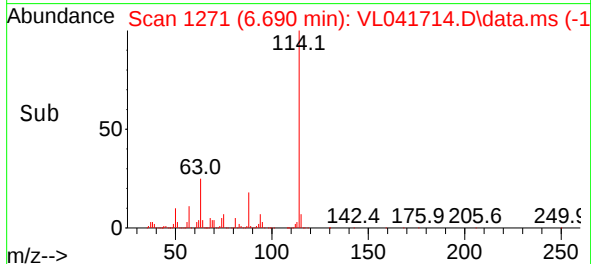
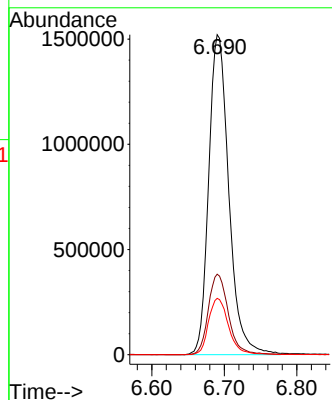
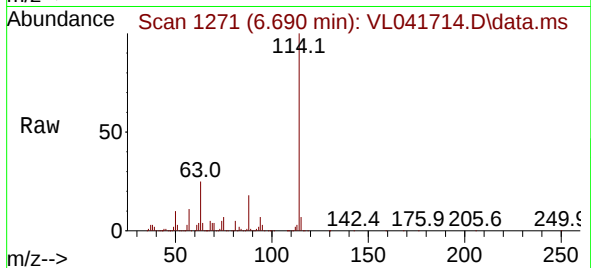
Tgt Ion:114 Resp: 2930669

Ion Ratio Lower Upper

114 100

63 25.2 20.3 30.5

88 17.6 14.2 21.4



#35

Carbon Tetrachloride

Concen: 13.562 ppbv

RT: 6.533 min Scan# 1222

Delta R.T. 0.006 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

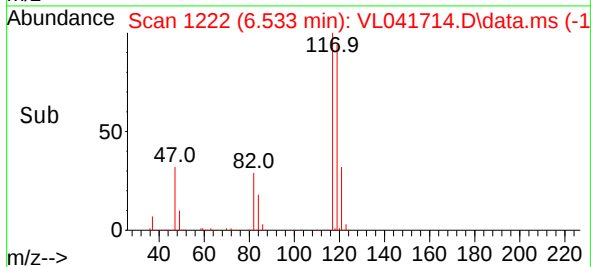
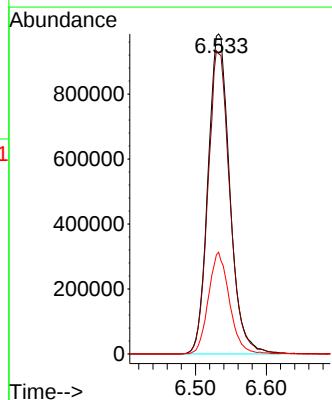
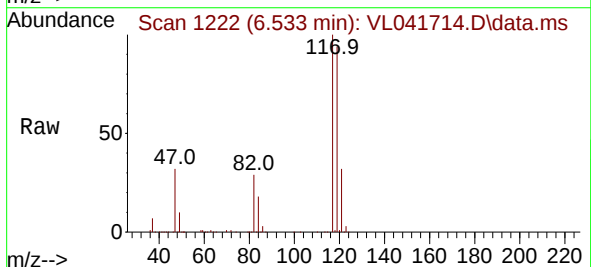
Tgt Ion:117 Resp: 2096970

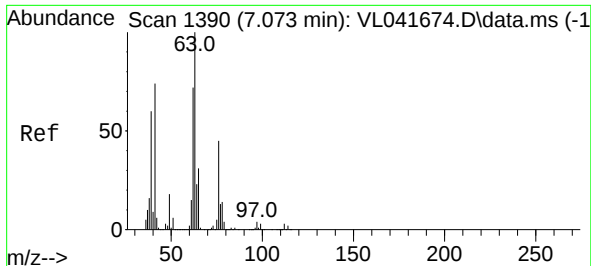
Ion Ratio Lower Upper

117 100

119 93.8 77.2 115.8

121 31.8 25.0 37.4





#39

1,2-Dichloropropane

Concen: 0.102 ppbv

RT: 7.285 min Scan# 1456

Delta R.T. 0.177 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

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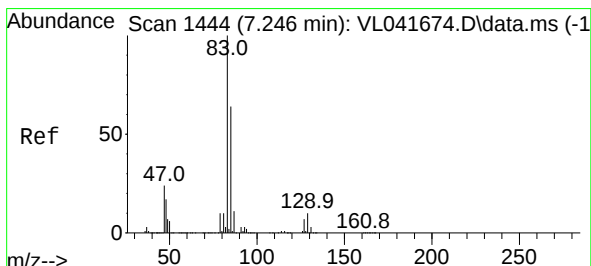
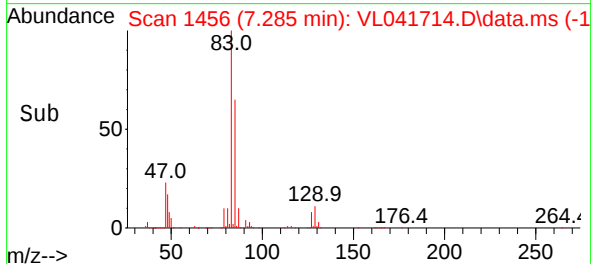
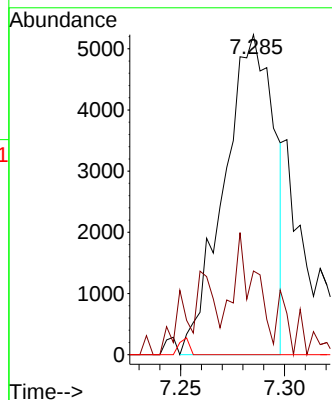
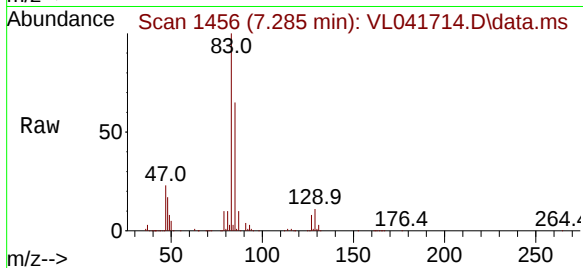
Tgt Ion: 63 Resp: 8788

Ion Ratio Lower Upper

63 100

41 17.0 59.1 88.7#

62 0.0 57.7 86.5#



#42

Bromodichloromethane

Concen: 9.230 ppbv

RT: 7.288 min Scan# 1457

Delta R.T. 0.006 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

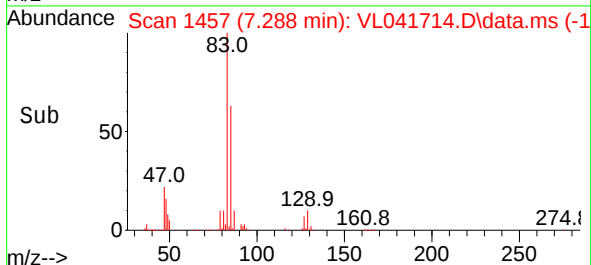
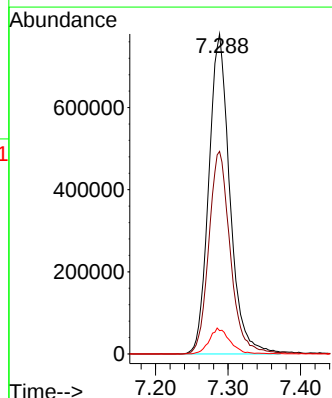
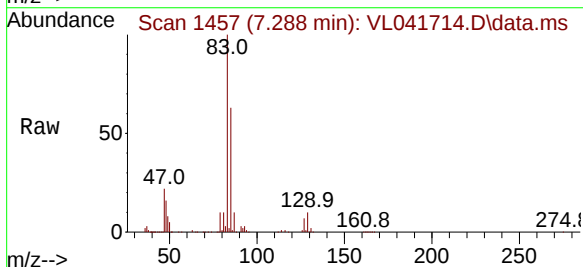
Tgt Ion: 83 Resp: 1571344

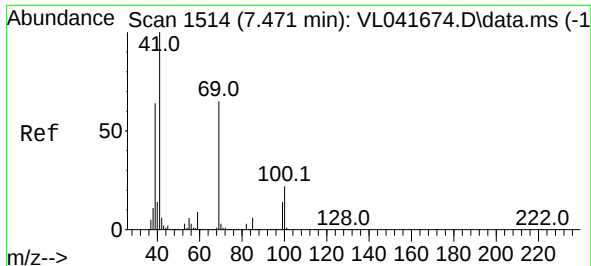
Ion Ratio Lower Upper

83 100

85 63.3 51.2 76.8

127 7.3 6.0 9.0





#43

Methyl Methacrylate

Concen: 0.175 ppbv

RT: 7.600 min Scan# 1554

Delta R.T. 0.093 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA_L

ClientSampleId :

E070-1100DL

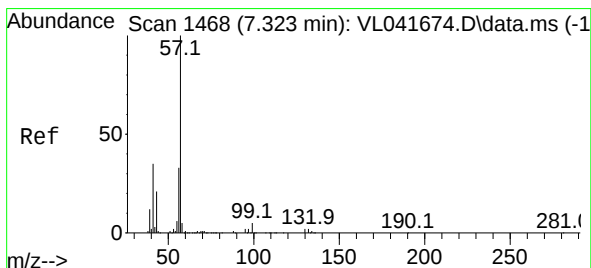
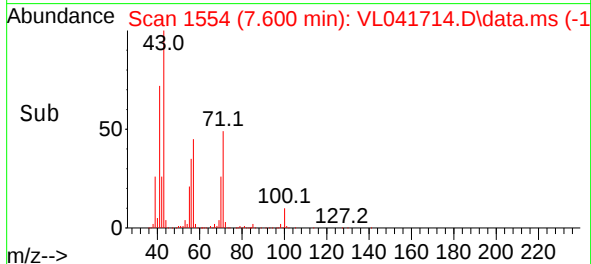
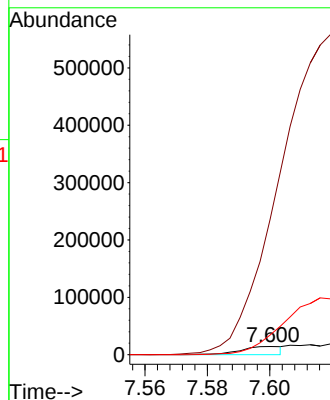
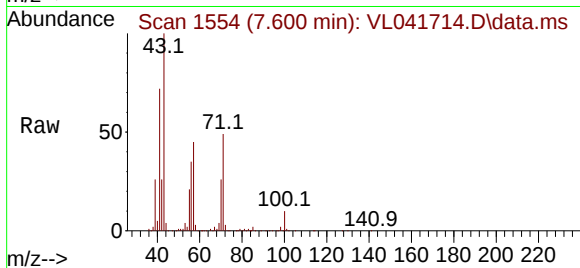
Tgt Ion: 69 Resp: 13341

Ion Ratio Lower Upper

69 100

41 0.0 119.8 179.6#

100 0.0 27.3 40.9#



#44

2,2,4-Trimethylpentane

Concen: 2.132 ppbv

RT: 7.619 min Scan# 1560

Delta R.T. 0.264 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

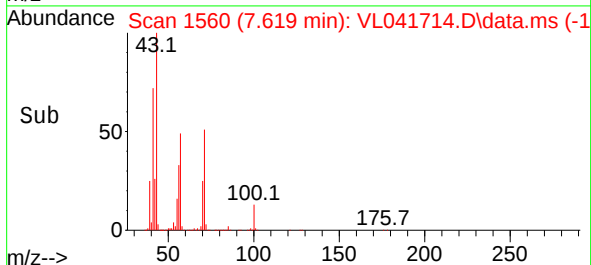
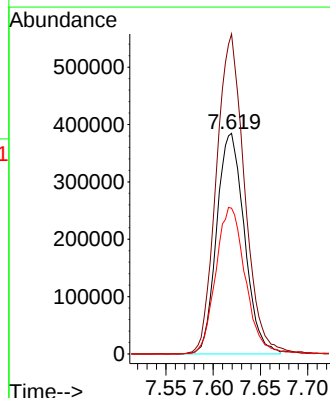
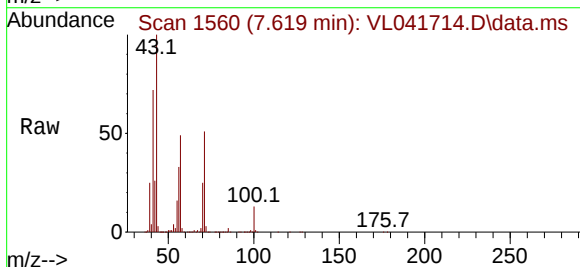
Tgt Ion: 57 Resp: 784336

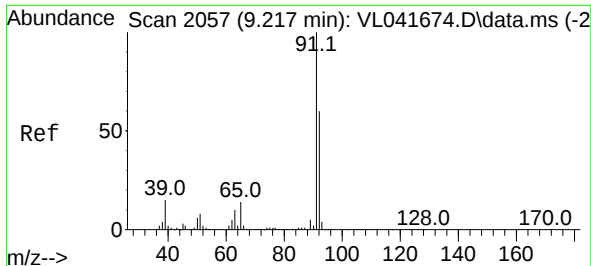
Ion Ratio Lower Upper

57 100

41 148.2 27.0 40.6#

56 71.2 25.8 38.6#





#53

Toluene

Concen: 21.298 ppbv

RT: 9.259 min Scan# 2057

Delta R.T. 0.007 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA_L

ClientSampleId :

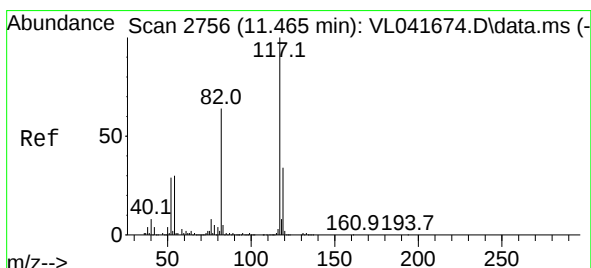
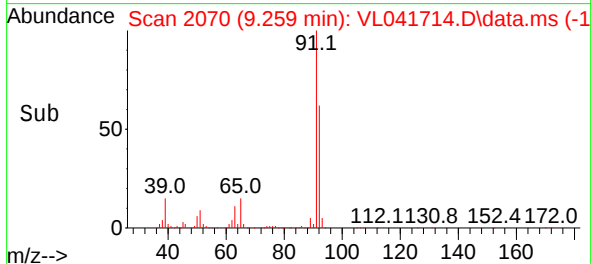
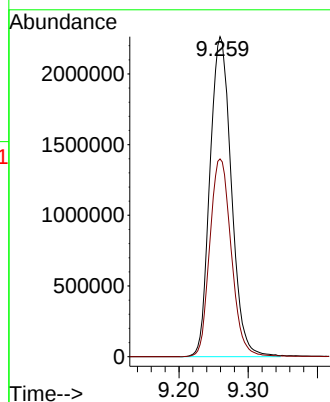
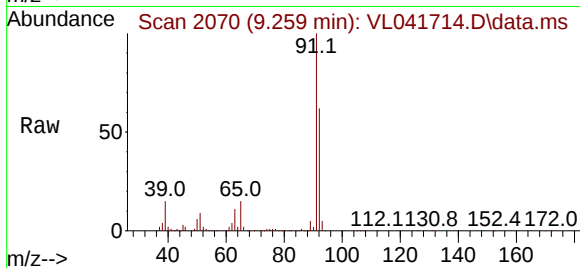
E070-1100DL

Tgt Ion: 91 Resp: 4863423

Ion Ratio Lower Upper

91 100

92 62.1 49.0 73.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.504 min Scan# 2768

Delta R.T. 0.007 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

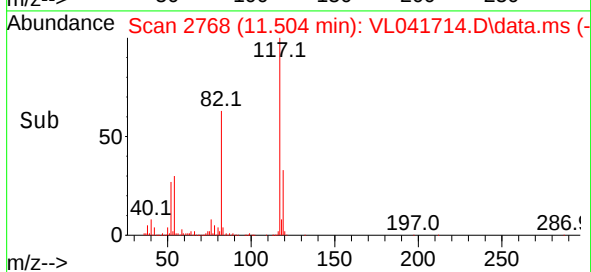
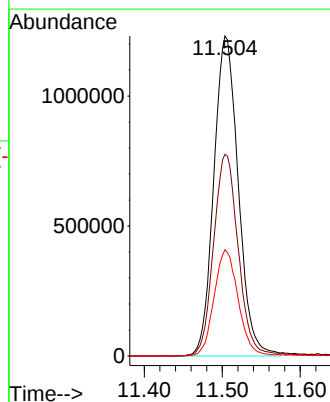
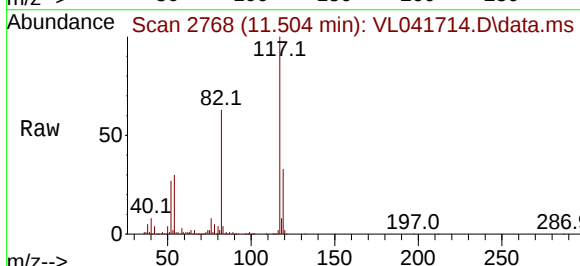
Tgt Ion: 117 Resp: 2692925

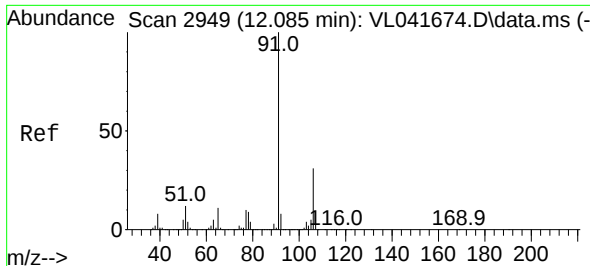
Ion Ratio Lower Upper

117 100

82 64.3 49.8 74.8

119 32.9 24.2 36.4





#58

Ethyl Benzene

Concen: 19.867 ppbv

RT: 12.413 min Scan# 3051

Delta R.T. 0.293 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA_L

ClientSampleId :

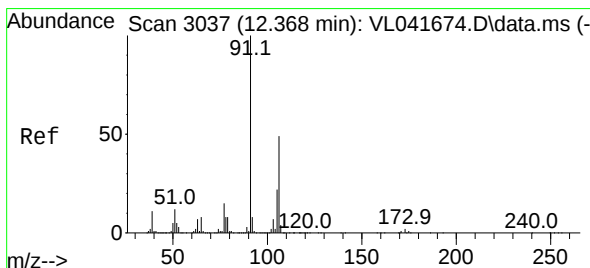
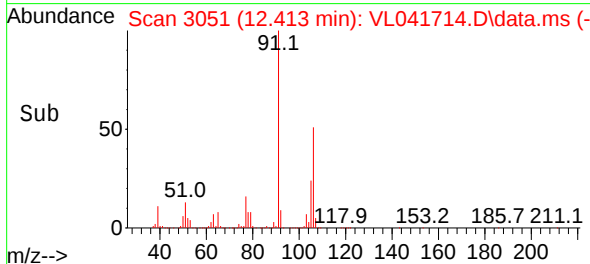
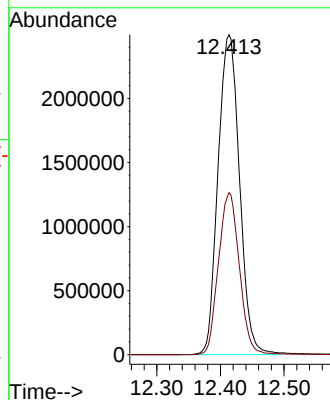
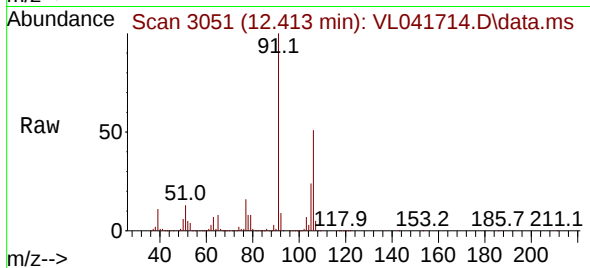
E070-1100DL

Tgt Ion: 91 Resp: 5865203

Ion Ratio Lower Upper

91 100

106 50.7 24.9 37.3#



#59

m/p-Xylene

Concen: 22.185 ppbv

RT: 12.413 min Scan# 3051

Delta R.T. 0.010 min

Lab File: VL041714.D

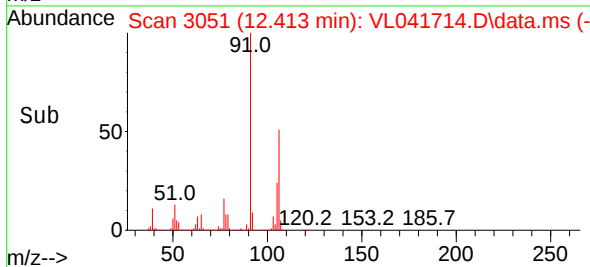
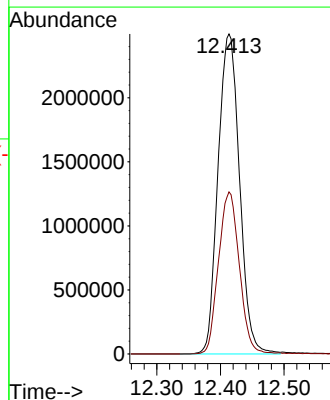
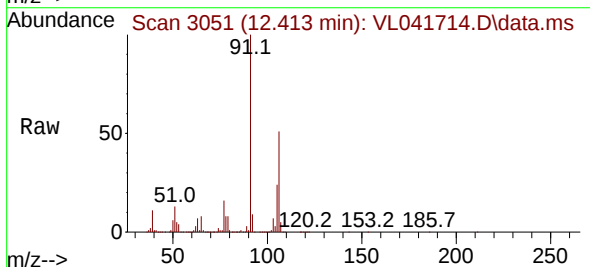
Acq: 21 Nov 2024 14:12

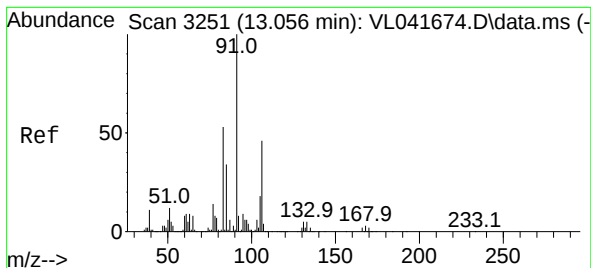
Tgt Ion: 91 Resp: 5865203

Ion Ratio Lower Upper

91 100

106 49.3 36.9 55.3





#60

o-Xylene

Concen: 17.783 ppbv

RT: 13.095 min Scan# 3263

Delta R.T. 0.006 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA_L

ClientSampleId :

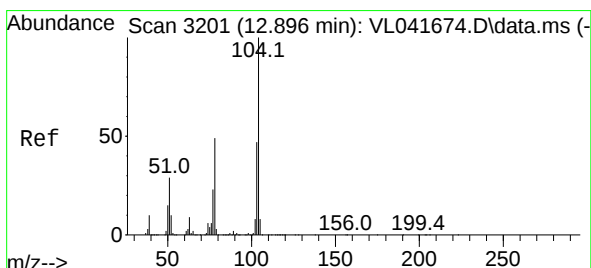
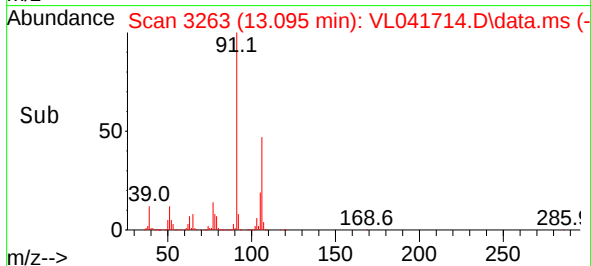
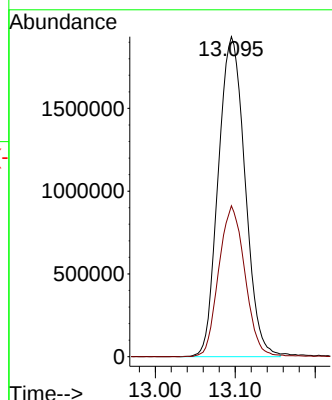
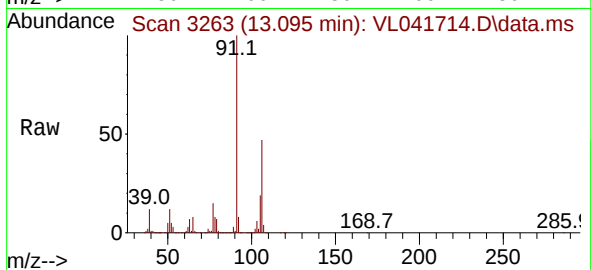
E070-1100DL

Tgt Ion: 91 Resp: 4483154

Ion Ratio Lower Upper

91 100

106 46.5 23.2 69.6



#61

Styrene

Concen: 0.949 ppbv

RT: 13.095 min Scan# 3263

Delta R.T. 0.167 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

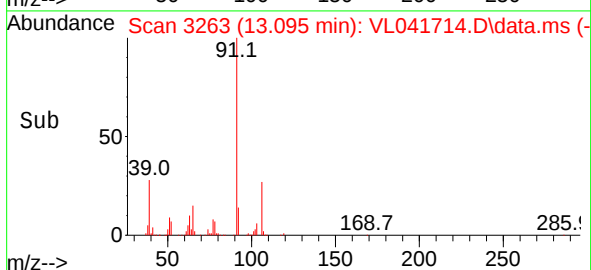
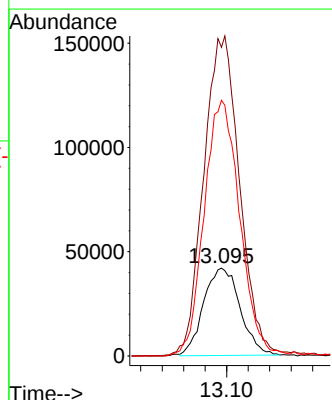
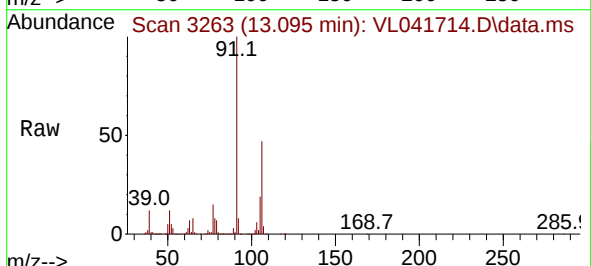
Tgt Ion:104 Resp: 98730

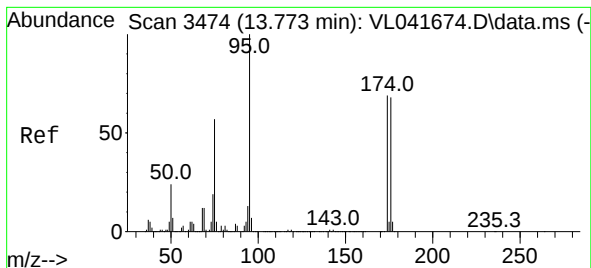
Ion Ratio Lower Upper

104 100

78 365.2 39.8 59.8#

103 287.5 37.4 56.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.994 ppbv

RT: 13.812 min Scan# 3474

Delta R.T. 0.006 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA_L

ClientSampleId :

E070-1100DL

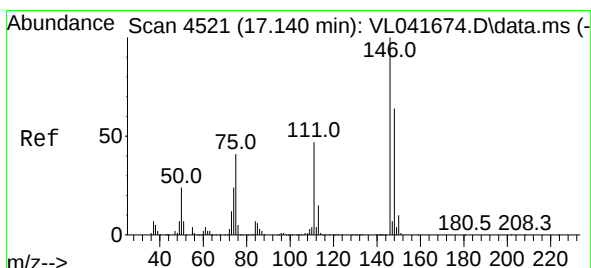
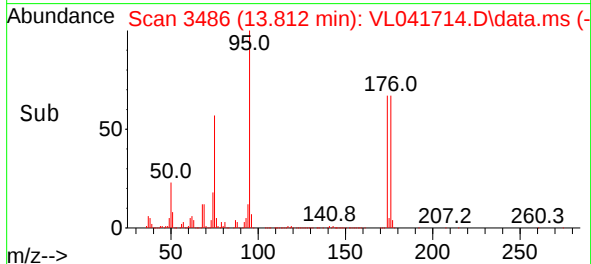
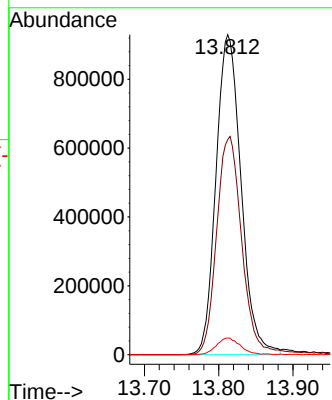
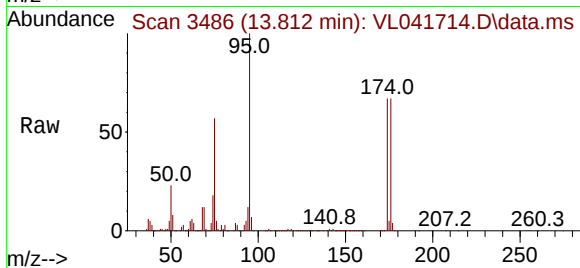
Tgt Ion: 95 Resp: 2181457

Ion Ratio Lower Upper

95 100

174 69.7 55.6 83.4

175 5.1 4.2 6.2



#77

1,2-Dichlorobenzene

Concen: 14.901 ppbv

RT: 17.179 min Scan# 4533

Delta R.T. 0.003 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

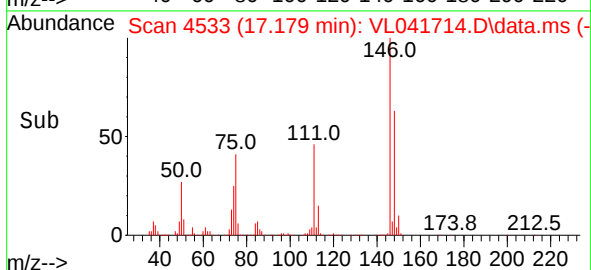
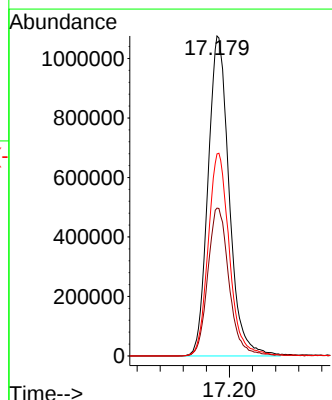
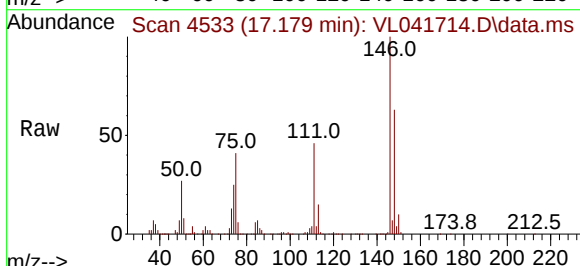
Tgt Ion:146 Resp: 2731245

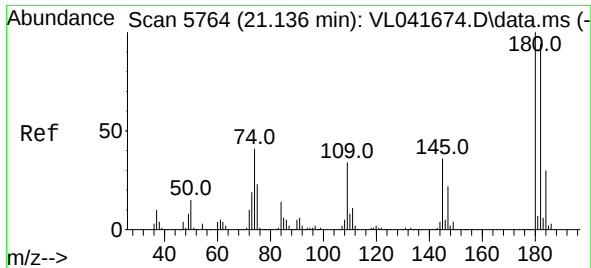
Ion Ratio Lower Upper

146 100

111 46.8 23.4 70.3

148 63.9 32.1 96.5





#81
 1,2,4-Trichlorobenzene
 Concen: 11.723 ppbv
 RT: 21.182 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VL041714.D
 Acq: 21 Nov 2024 14:12

Instrument :
 MSVOA_L
 ClientSampleId :
 E070-1100DL

Tgt Ion:180 Resp: 1359517
 Ion Ratio Lower Upper
 180 100
 182 99.3 78.2 117.2
 184 31.4 25.0 37.4

