

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060524\
 Data File : VL041333.D
 Acq On : 5 Jun 2024 18:53
 Operator : SY/MD
 Sample : P2716-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 06 04:42:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jun 05 04:42:10 2024
 Response via : Initial Calibration

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

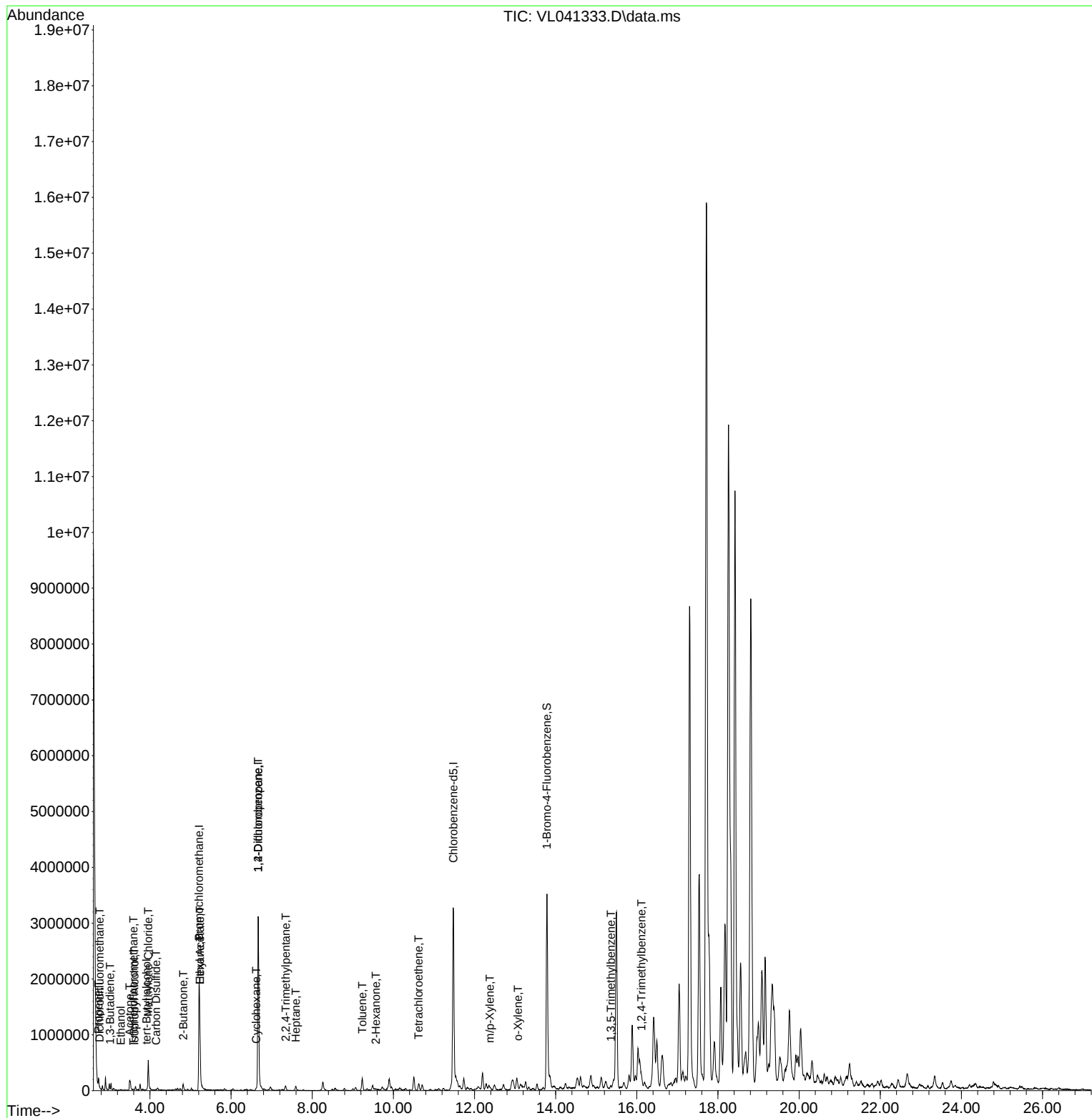
Internal Standards							
1) Bromochloromethane		5.211	49	903422	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		6.668	114	2358068	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.478	117	2163420	10.000	ppbv	0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.786	95	1729217	10.352	ppbv	0.02
Spiked Amount		10.000	Range 65 - 135		Recovery	= 103.500%	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		2.761	85	21202	0.147	ppbv	90
9) Propene		2.732	41	47848	0.941	ppbv #	81
10) Heptane		7.597	43	30219	0.251	ppbv	94
11) Trichlorofluoromethane		3.594	101	7121	0.054	ppbv	91
13) Ethanol		3.282	45	12084	0.913	ppbv	78
15) Acetone		3.501	43	204297	1.981	ppbv	91
16) 1,3-Butadiene		3.021	39	1836	0.035	ppbv #	1
17) tert-Butyl alcohol		3.922	59	4391	0.046	ppbv #	67
19) Isopropyl Alcohol		3.616	45	8082	0.125	ppbv #	95
20) Methylene Chloride		3.960	84	166766	4.448	ppbv	97
25) Ethyl Acetate		5.234	43	171015	0.838	ppbv #	77
26) Hexane		5.234	57	236962	2.582	ppbv #	42
27) Carbon Disulfide		4.153	76	7832	0.077	ppbv #	7
30) Cyclohexane		6.619	84	8498	0.114	ppbv #	49
34) 2-Butanone		4.819	43	127358	1.127	ppbv	94
39) 1,2-Dichloropropane		6.668	63	602356	8.276	ppbv #	24
44) 2,2,4-Trimethylpentane		7.346	57	16876	0.054	ppbv #	1
51) 2-Hexanone		9.568	43	7050	0.053	ppbv #	30
52) Tetrachloroethene		10.622	164	10402	0.156	ppbv	92
53) Toluene		9.233	91	73232	0.348	ppbv #	41
59) m/p-Xylene		12.381	91	10771	0.045	ppbv #	31
60) o-Xylene		13.072	91	16836	0.074	ppbv #	31
73) 1,3,5-Trimethylbenzene		15.365	105	14892	0.065	ppbv	92
74) 1,2,4-Trimethylbenzene		16.117	105	140255	0.541	ppbv #	75

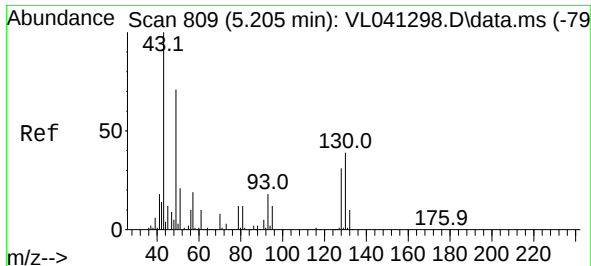
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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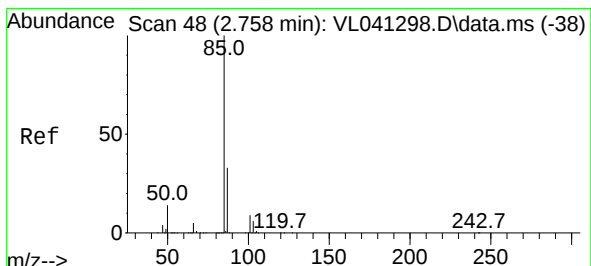
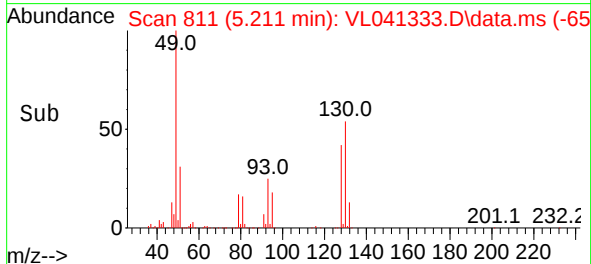
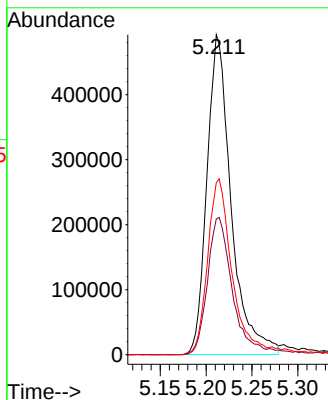
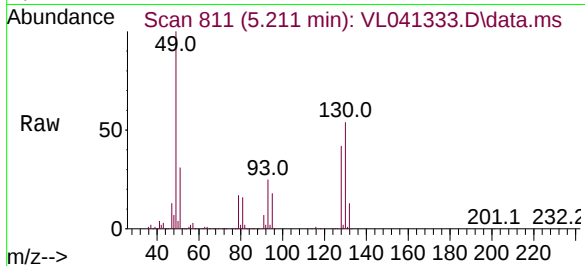




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL041333.D
Acq: 5 Jun 2024 18:53

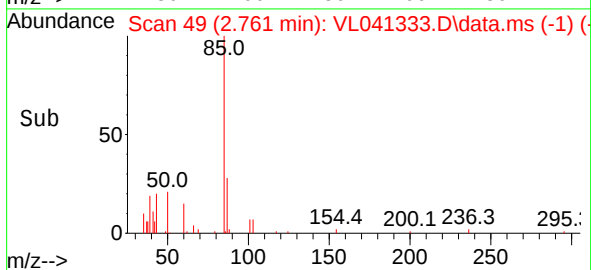
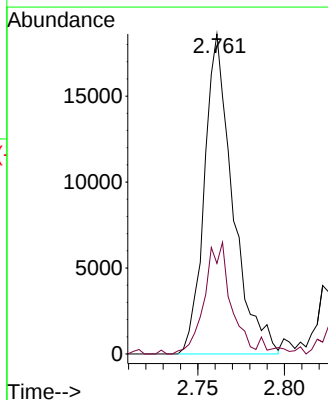
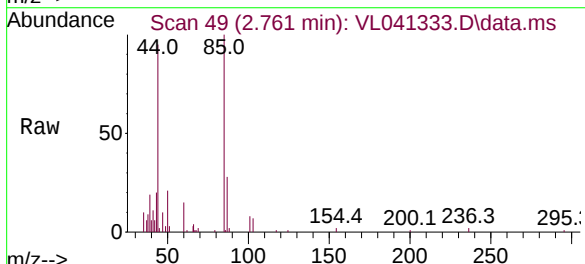
Instrument :
MSVOA_L
ClientSampleId :

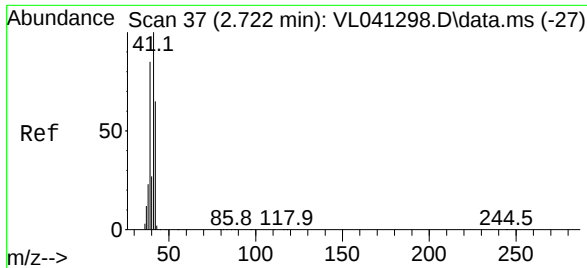
Tgt Ion: 49 Resp: 903422
Ion Ratio Lower Upper
49 100
128 45.6 22.8 68.3
130 58.6 28.4 85.3



#2
Dichlorodifluoromethane
Concen: 0.147 ppbv
RT: 2.761 min Scan# 49
Delta R.T. 0.003 min
Lab File: VL041333.D
Acq: 5 Jun 2024 18:53

Tgt Ion: 85 Resp: 21202
Ion Ratio Lower Upper
85 100
87 27.4 26.5 39.7





#9

Propene

Concen: 0.941 ppbv

RT: 2.732 min Scan# 40

Delta R.T. 0.010 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

Instrument :

MSVOA_L

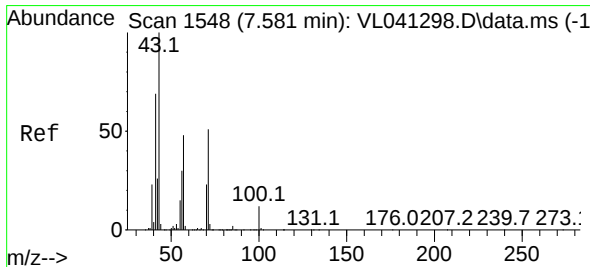
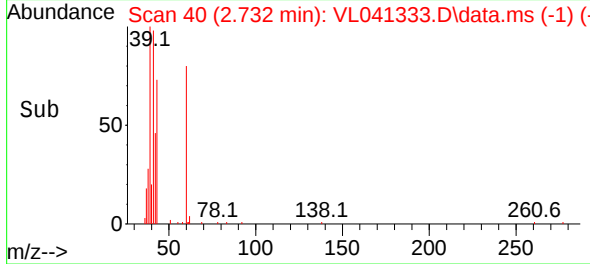
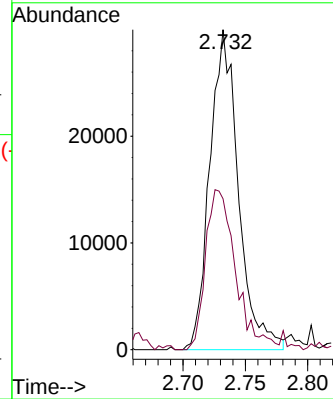
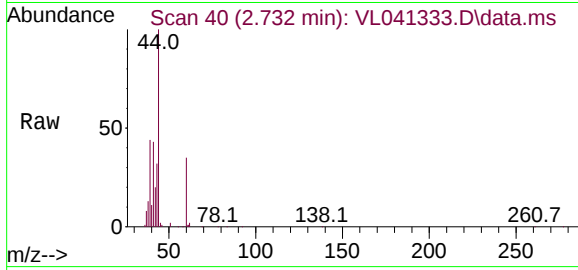
ClientSampleId :

Tgt Ion: 41 Resp: 47848

Ion Ratio Lower Upper

41 100

42 53.9 55.2 82.8#



#10

Heptane

Concen: 0.251 ppbv

RT: 7.597 min Scan# 1553

Delta R.T. 0.016 min

Lab File: VL041333.D

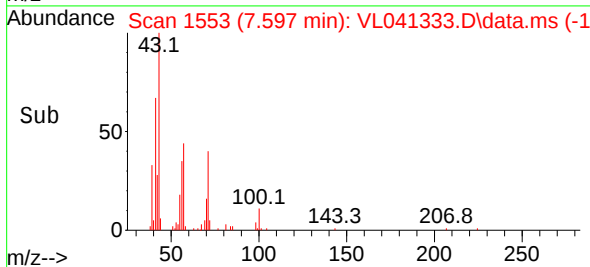
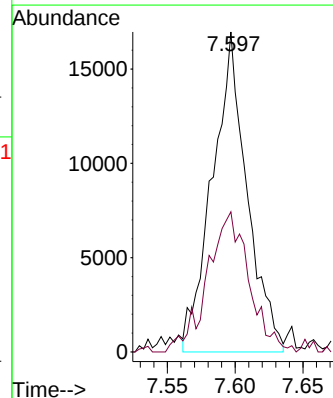
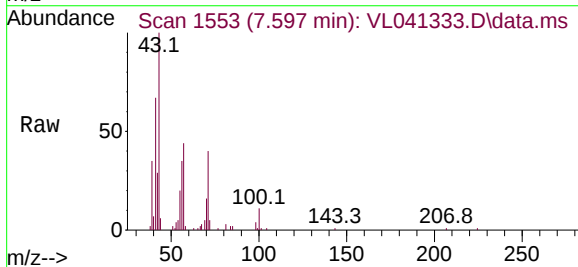
Acq: 5 Jun 2024 18:53

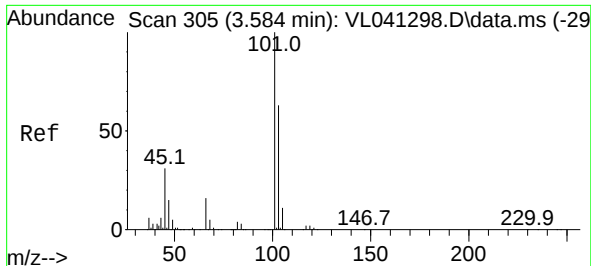
Tgt Ion: 43 Resp: 30219

Ion Ratio Lower Upper

43 100

57 52.8 39.0 58.4

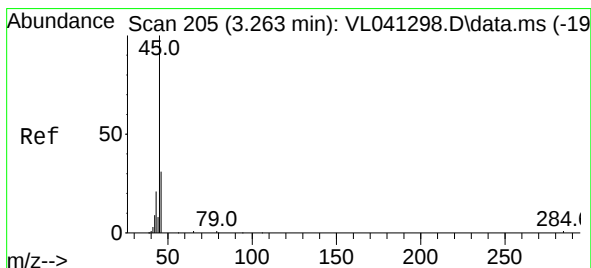
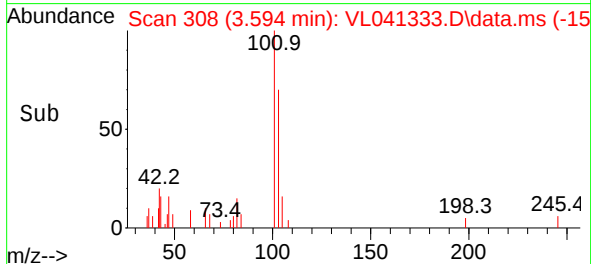
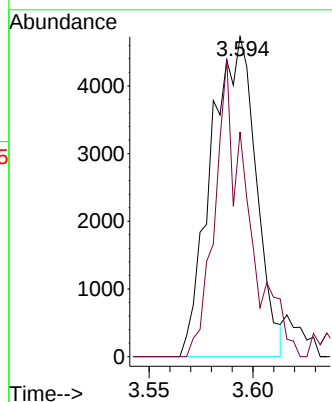
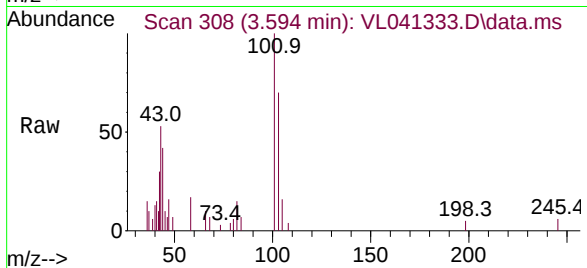




#11
Trichlorofluoromethane
Concen: 0.054 ppbv
RT: 3.594 min Scan# 305
Delta R.T. 0.010 min
Lab File: VL041333.D
Acq: 5 Jun 2024 18:53

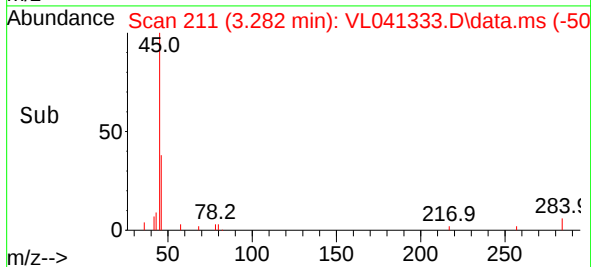
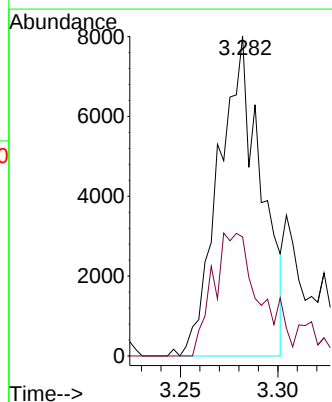
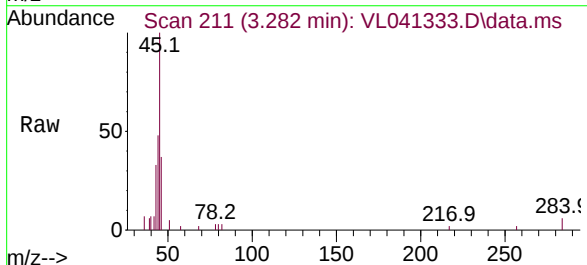
Instrument :
MSVOA_L
ClientSampleId :

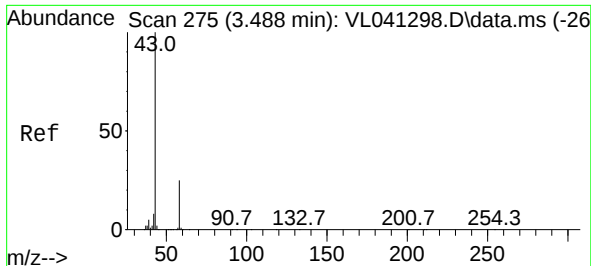
Tgt Ion:101 Resp: 7121
Ion Ratio Lower Upper
101 100
103 70.2 50.6 76.0



#13
Ethanol
Concen: 0.913 ppbv
RT: 3.282 min Scan# 211
Delta R.T. 0.019 min
Lab File: VL041333.D
Acq: 5 Jun 2024 18:53

Tgt Ion: 45 Resp: 12084
Ion Ratio Lower Upper
45 100
46 48.2 14.2 56.6

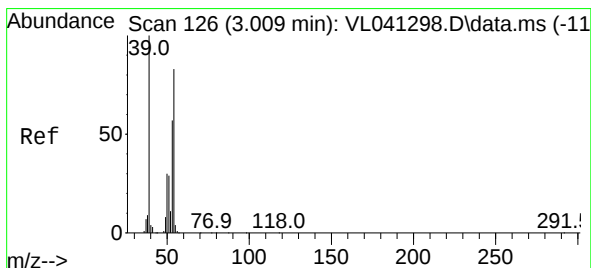
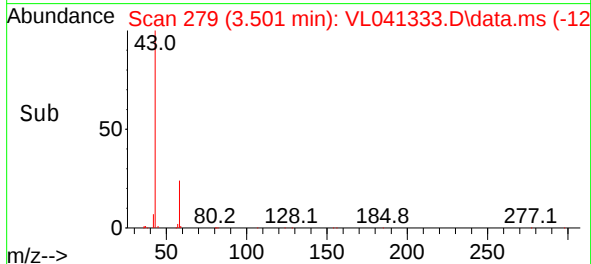
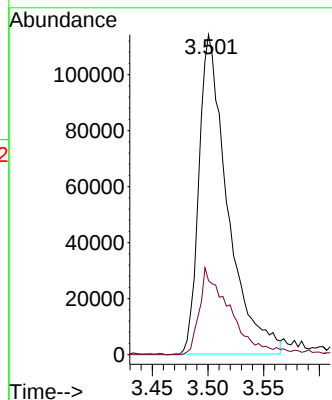
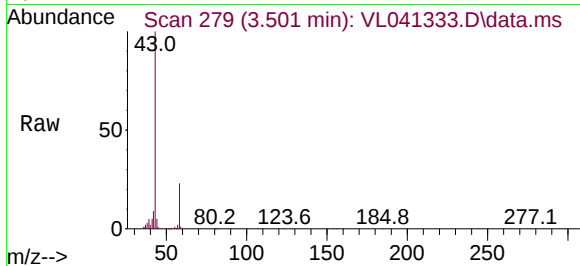




#15
Acetone
Concen: 1.981 ppbv
RT: 3.501 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL041333.D
Acq: 5 Jun 2024 18:53

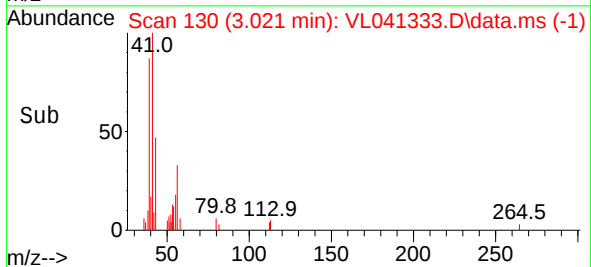
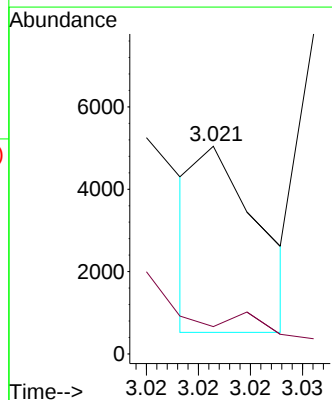
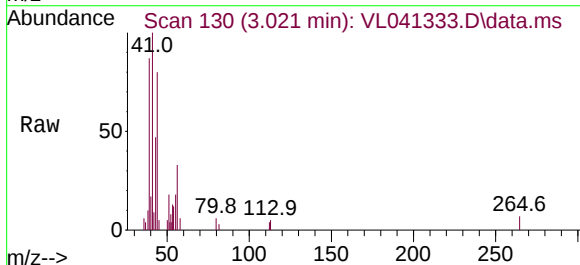
Instrument :
MSVOA_L
ClientSampleId :

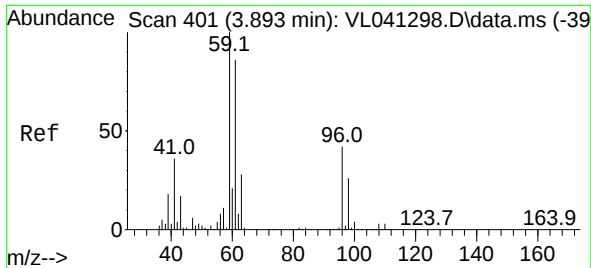
Tgt Ion: 43 Resp: 204297
Ion Ratio Lower Upper
43 100
58 30.6 20.6 31.0



#16
1,3-Butadiene
Concen: 0.035 ppbv
RT: 3.021 min Scan# 130
Delta R.T. 0.013 min
Lab File: VL041333.D
Acq: 5 Jun 2024 18:53

Tgt Ion: 39 Resp: 1836
Ion Ratio Lower Upper
39 100
54 203.7 60.5 90.7#

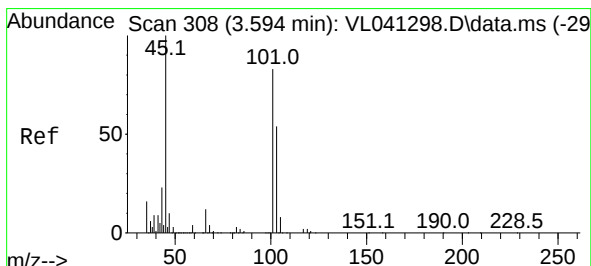
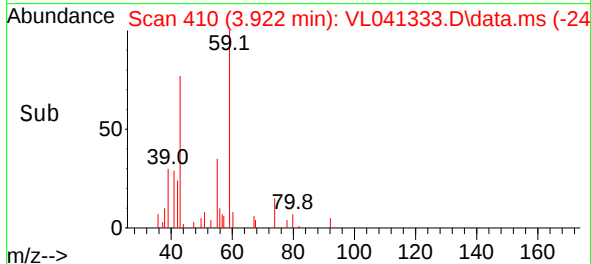
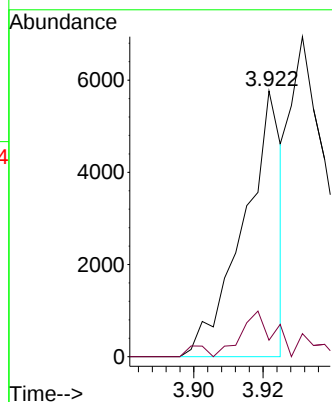
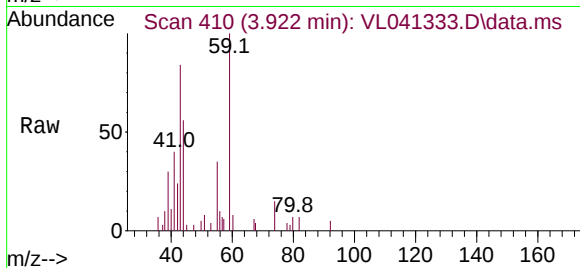




#17
tert-Butyl alcohol
Concen: 0.046 ppbv
RT: 3.922 min Scan# 410
Delta R.T. 0.029 min
Lab File: VL041333.D
Acq: 5 Jun 2024 18:53

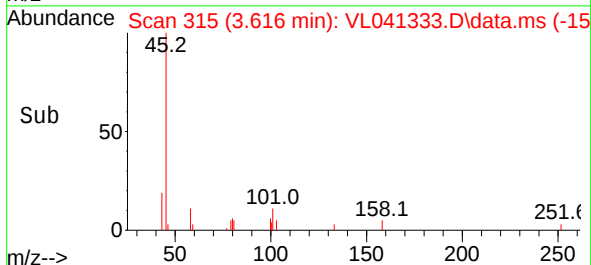
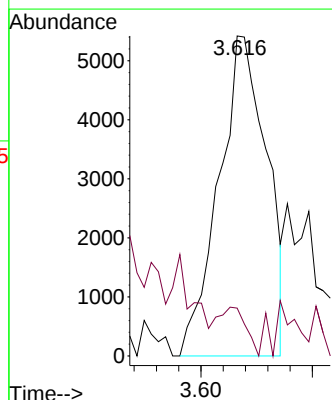
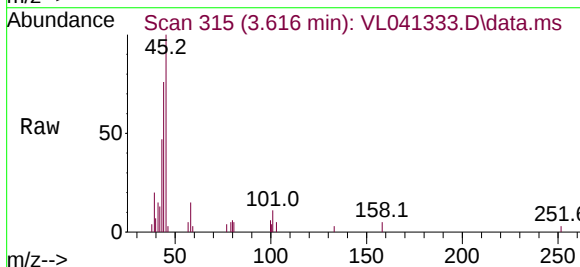
Instrument :
MSVOA_L
ClientSampleId :

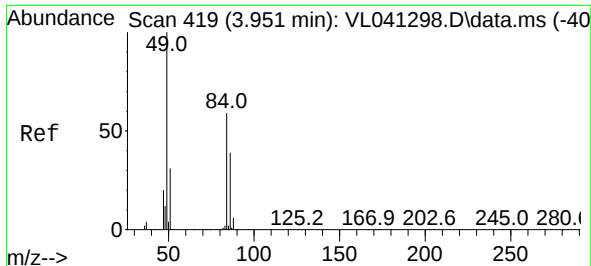
Tgt Ion: 59 Resp: 4391
Ion Ratio Lower Upper
59 100
57 23.7 9.0 13.4#



#19
Isopropyl Alcohol
Concen: 0.125 ppbv
RT: 3.616 min Scan# 315
Delta R.T. 0.022 min
Lab File: VL041333.D
Acq: 5 Jun 2024 18:53

Tgt Ion: 45 Resp: 8082
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2#





#20

Methylene Chloride

Concen: 4.448 ppbv

RT: 3.960 min Scan# 419

Delta R.T. 0.010 min

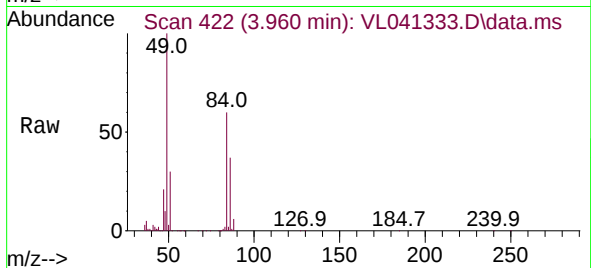
Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 166766

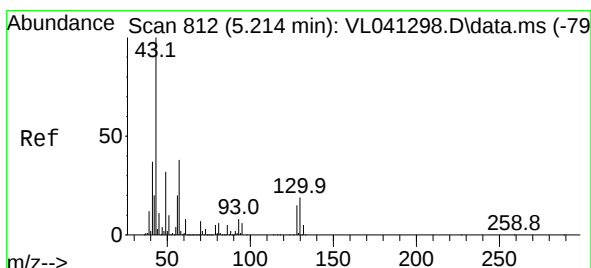
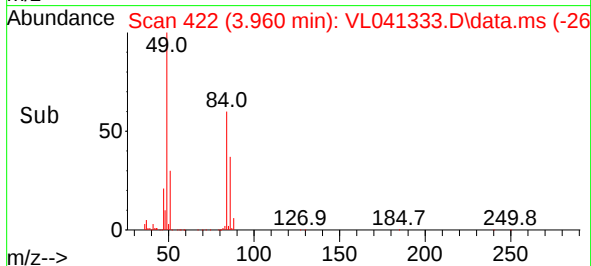
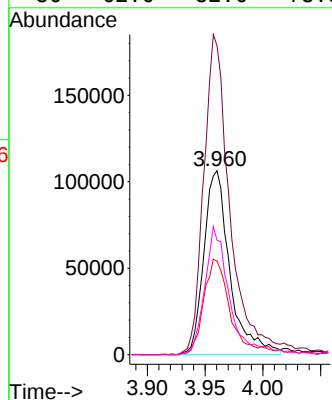
Ion Ratio Lower Upper

84 100

49 167.4 136.2 204.2

51 50.3 41.9 62.9

86 62.0 52.6 78.8



#25

Ethyl Acetate

Concen: 0.838 ppbv

RT: 5.234 min Scan# 818

Delta R.T. 0.019 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

Tgt Ion: 43 Resp: 171015

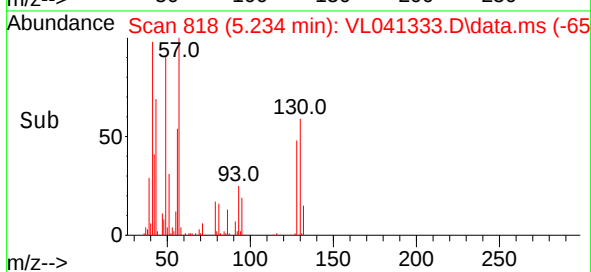
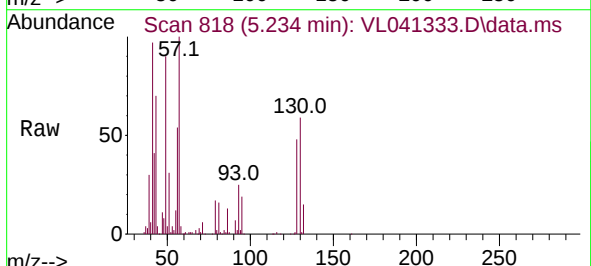
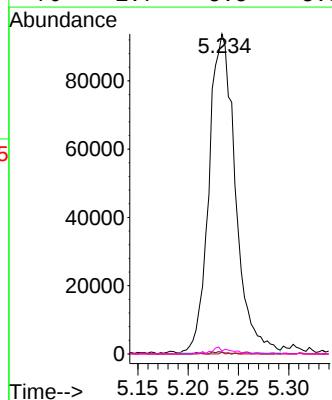
Ion Ratio Lower Upper

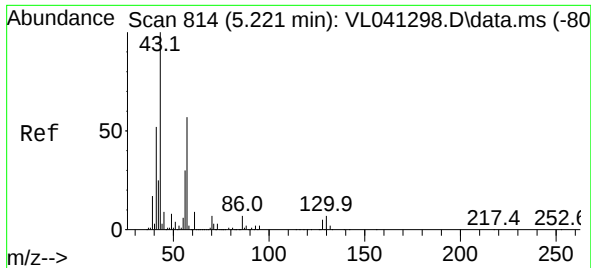
43 100

45 0.4 8.1 12.1#

61 0.0 7.4 11.0#

70 1.7 5.5 8.3#





#26

Hexane

Concen: 2.582 ppbv

RT: 5.234 min Scan# 814

Delta R.T. 0.013 min

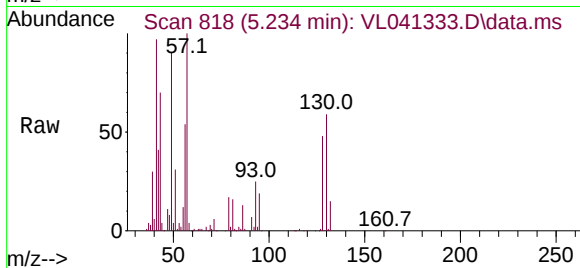
Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 57 Resp: 236962

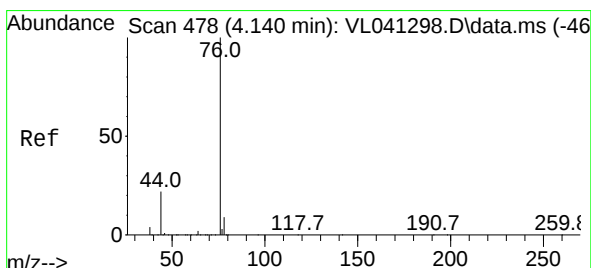
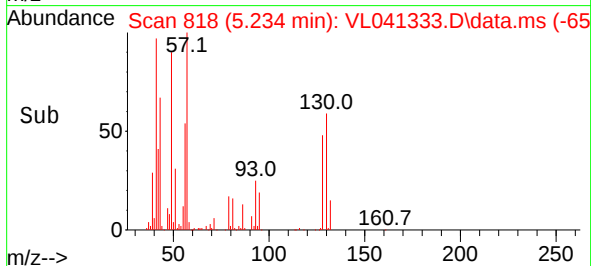
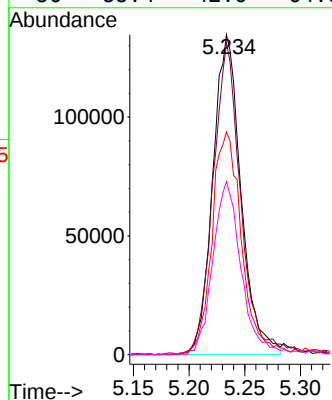
Ion Ratio Lower Upper

57 100

41 98.3 77.1 115.7

43 75.2 186.1 279.1#

56 55.4 42.9 64.3



#27

Carbon Disulfide

Concen: 0.077 ppbv

RT: 4.153 min Scan# 482

Delta R.T. 0.013 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

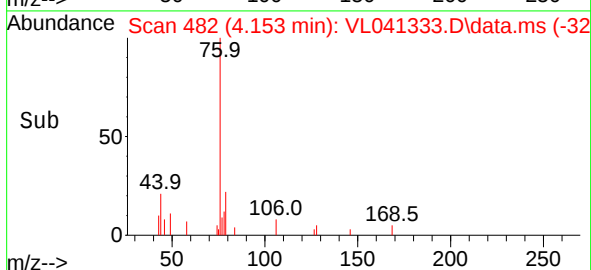
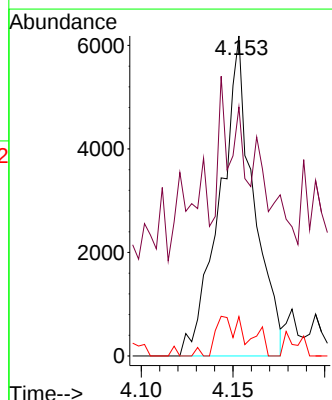
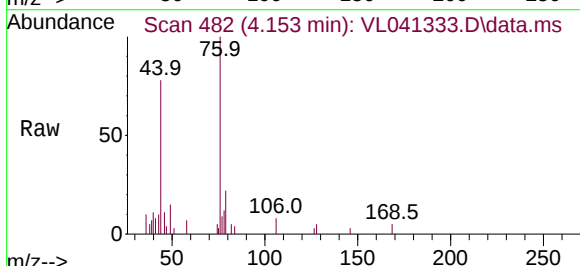
Tgt Ion: 76 Resp: 7832

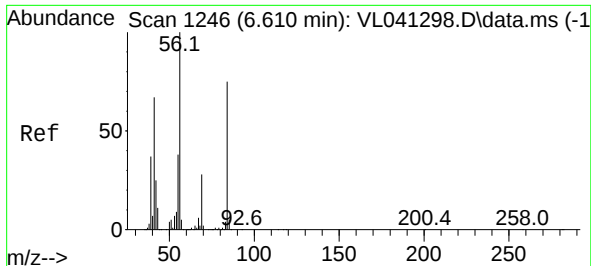
Ion Ratio Lower Upper

76 100

44 82.9 17.7 26.5#

78 14.9 7.8 11.6#





#30

Cyclohexane

Concen: 0.114 ppbv

RT: 6.619 min Scan# 1249

Delta R.T. 0.010 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :

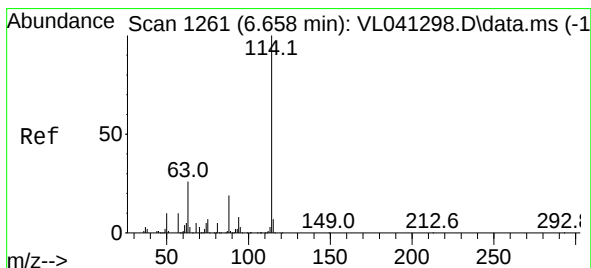
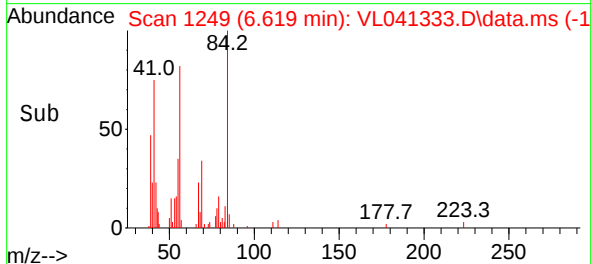
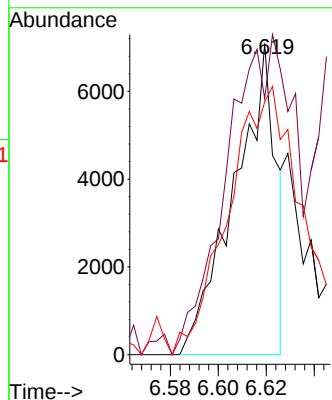
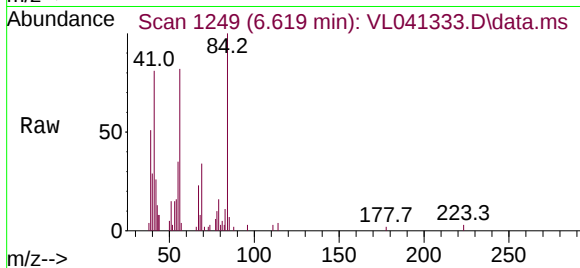
Tgt Ion: 84 Resp: 8498

Ion Ratio Lower Upper

84 100

56 170.6 114.9 172.3

41 185.0 74.4 111.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.668 min Scan# 1264

Delta R.T. 0.010 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

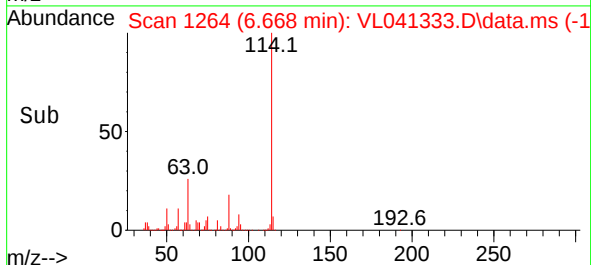
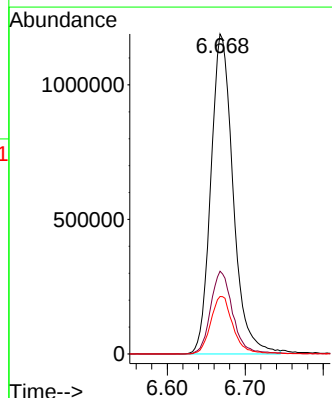
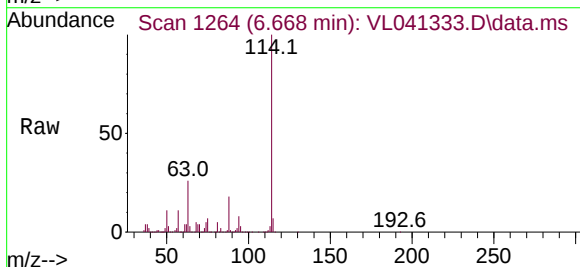
Tgt Ion: 114 Resp: 2358068

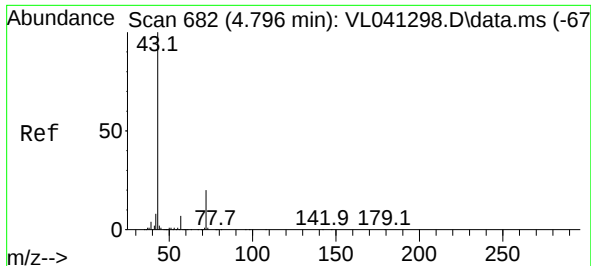
Ion Ratio Lower Upper

114 100

63 25.8 20.6 30.8

88 18.2 14.5 21.7





#34

2-Butanone

Concen: 1.127 ppbv

RT: 4.819 min Scan# 61

Delta R.T. 0.022 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

Instrument :

MSVOA_L

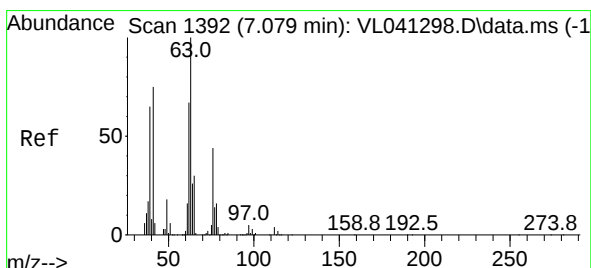
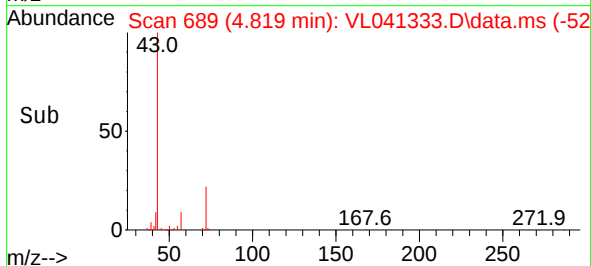
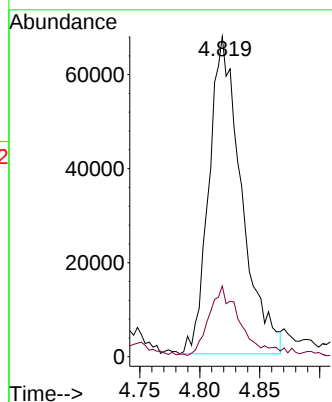
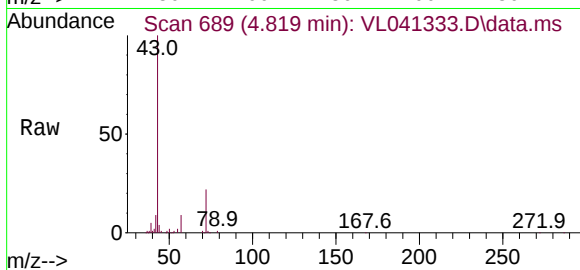
ClientSampleId :

Tgt Ion: 43 Resp: 127358

Ion Ratio Lower Upper

43 100

72 24.4 17.4 26.0



#39

1,2-Dichloropropane

Concen: 8.276 ppbv

RT: 6.668 min Scan# 1264

Delta R.T. -0.412 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

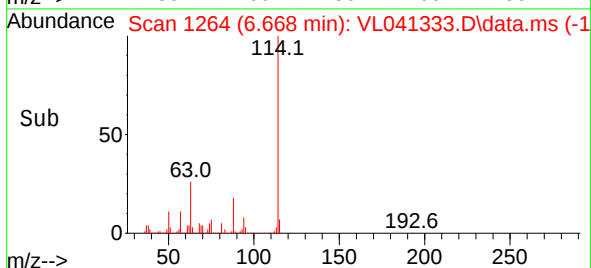
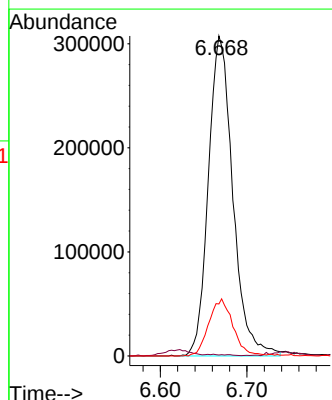
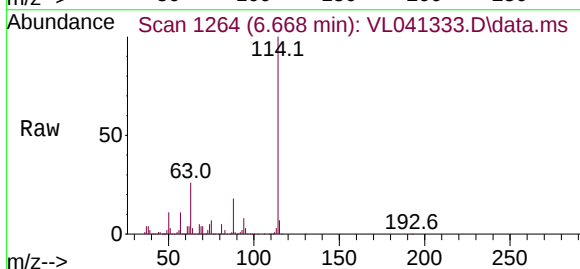
Tgt Ion: 63 Resp: 602356

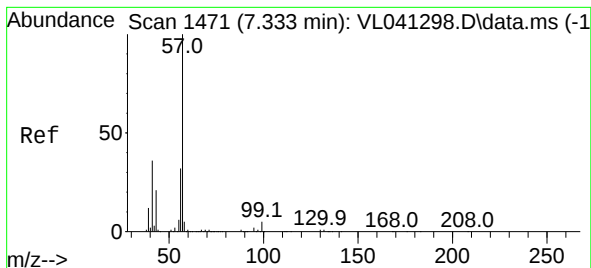
Ion Ratio Lower Upper

63 100

41 0.0 59.9 89.9#

62 16.2 53.8 80.6#





#44

2,2,4-Trimethylpentane

Concen: 0.054 ppbv

RT: 7.346 min Scan# 1471

Delta R.T. 0.013 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :

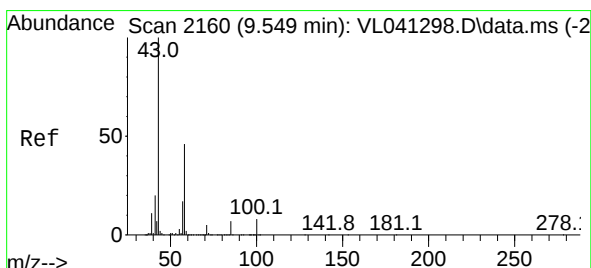
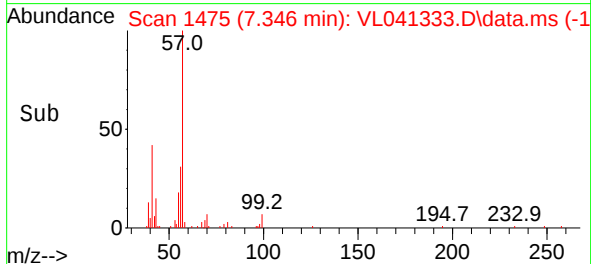
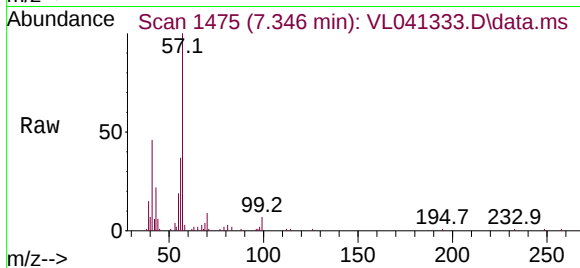
Tgt Ion: 57 Resp: 16876

Ion Ratio Lower Upper

57 100

41 178.7 29.4 44.2#

56 160.4 25.0 37.4#



#51

2-Hexanone

Concen: 0.053 ppbv

RT: 9.568 min Scan# 2166

Delta R.T. 0.019 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

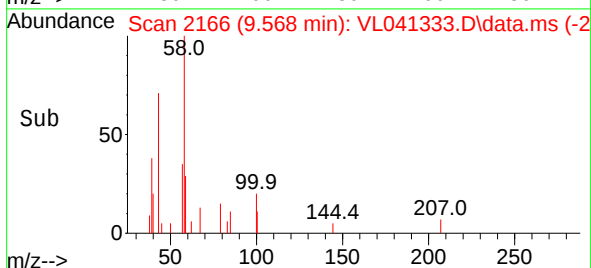
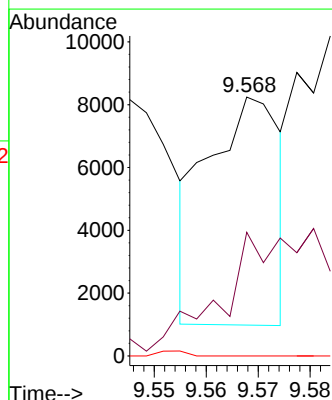
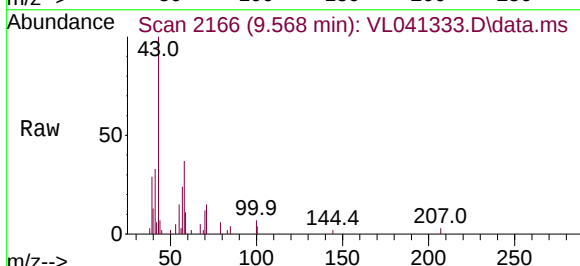
Tgt Ion: 43 Resp: 7050

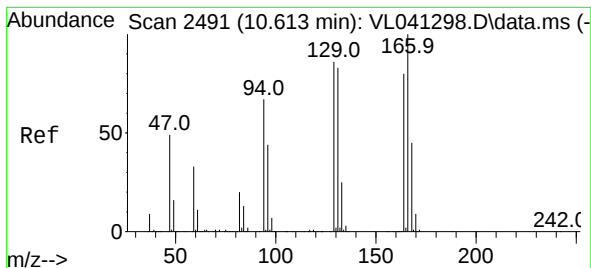
Ion Ratio Lower Upper

43 100

58 0.0 37.4 56.0#

98 0.0 0.2 0.4#





#52

Tetrachloroethene

Concen: 0.156 ppbv

RT: 10.622 min Scan# 2494

Delta R.T. 0.010 min

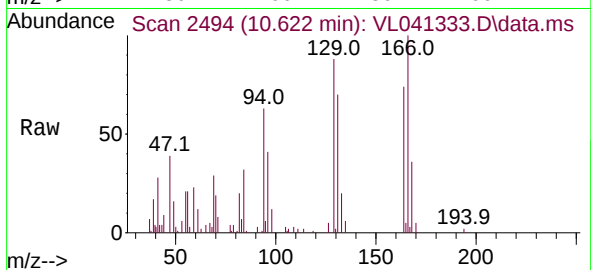
Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 10402

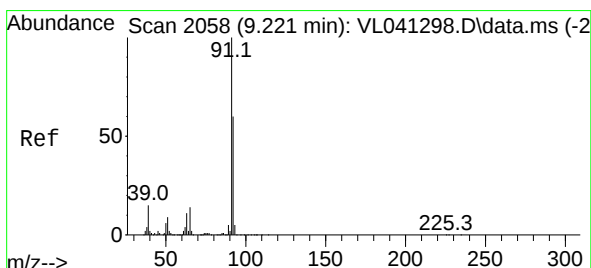
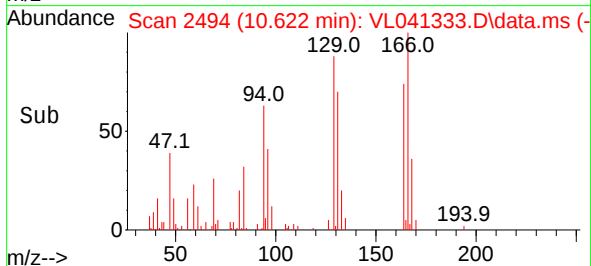
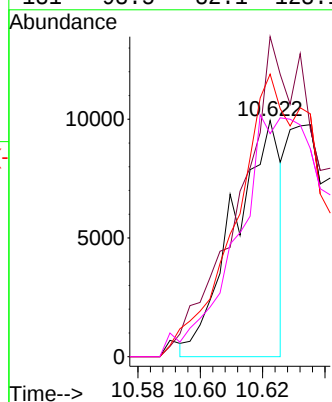
Ion Ratio Lower Upper

164 100

166 133.3 99.4 149.0

129 114.2 85.4 128.2

131 93.5 82.1 123.1



#53

Toluene

Concen: 0.348 ppbv

RT: 9.233 min Scan# 2062

Delta R.T. 0.013 min

Lab File: VL041333.D

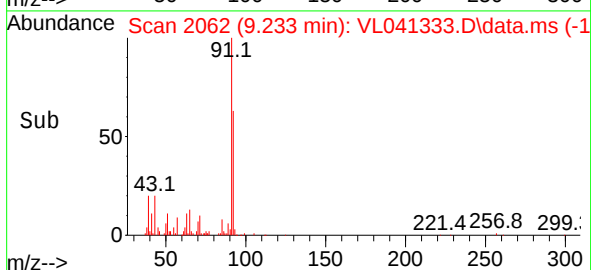
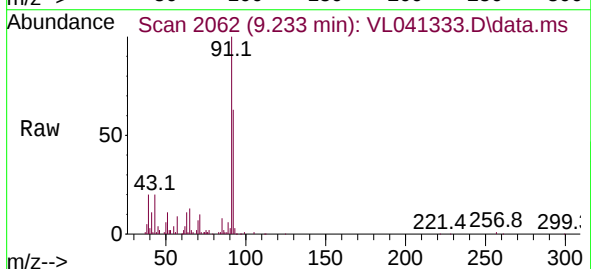
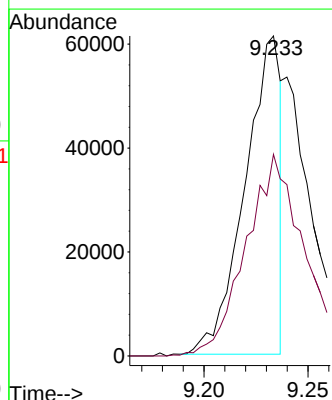
Acq: 5 Jun 2024 18:53

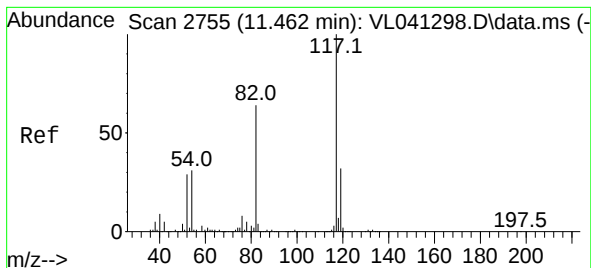
Tgt Ion: 91 Resp: 73232

Ion Ratio Lower Upper

91 100

92 106.9 49.2 73.8#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.478 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :

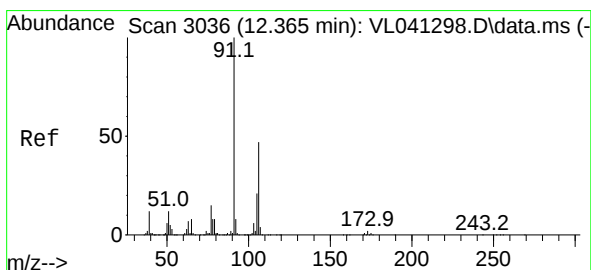
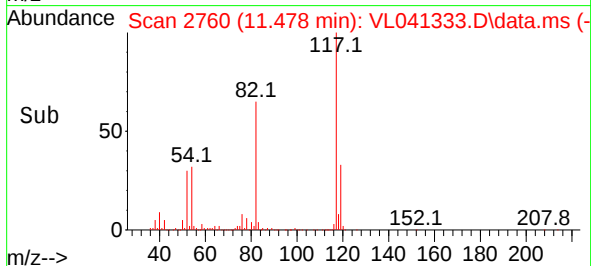
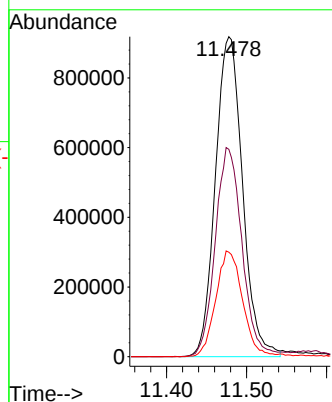
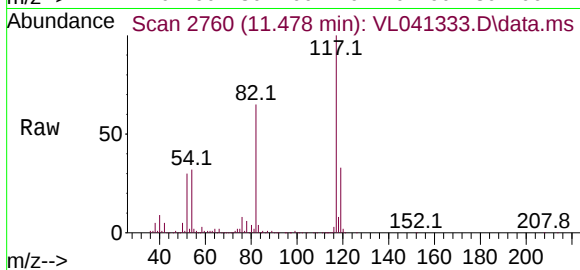
Tgt Ion:117 Resp: 2163420

Ion Ratio Lower Upper

117 100

82 65.0 52.3 78.5

119 33.0 26.2 39.2



#59

m/p-Xylene

Concen: 0.045 ppbv

RT: 12.381 min Scan# 3041

Delta R.T. 0.016 min

Lab File: VL041333.D

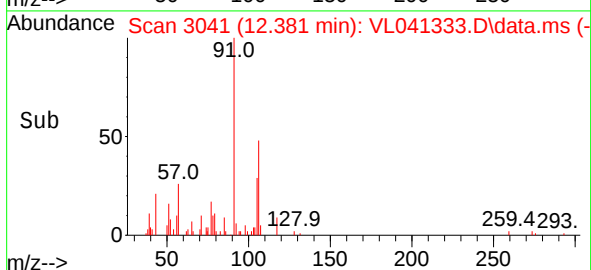
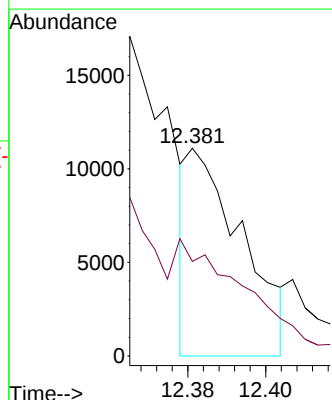
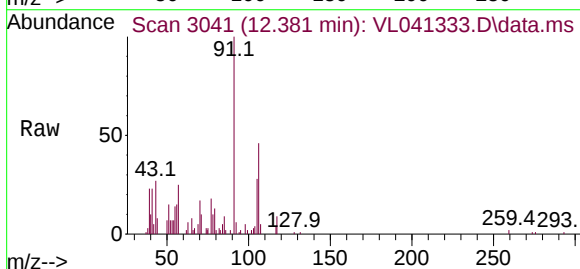
Acq: 5 Jun 2024 18:53

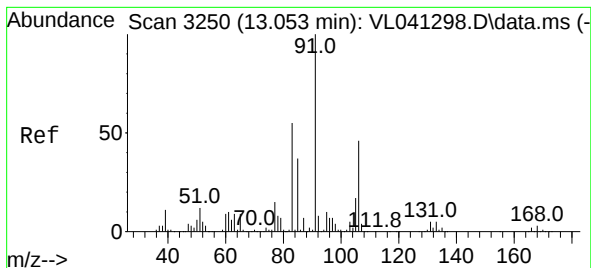
Tgt Ion: 91 Resp: 10771

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#





#60

o-Xylene

Concen: 0.074 ppbv

RT: 13.072 min Scan# 31

Delta R.T. 0.019 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

Instrument :

MSVOA_L

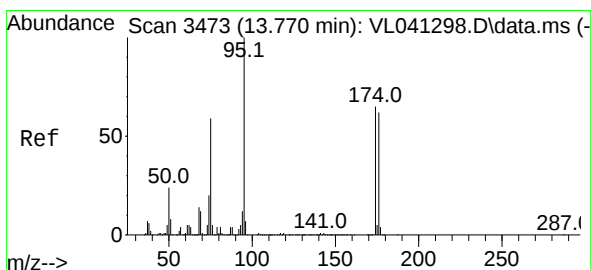
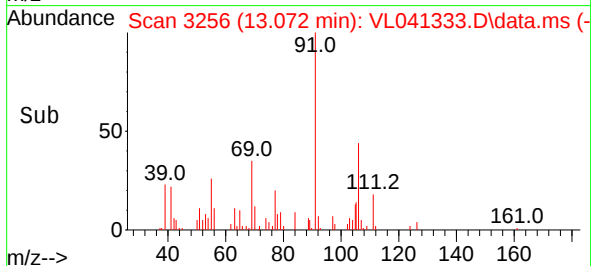
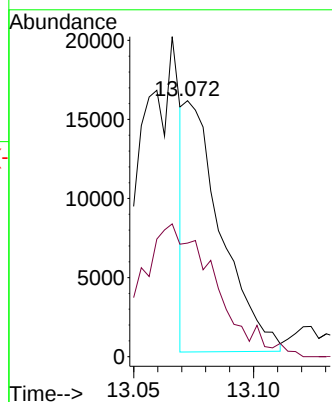
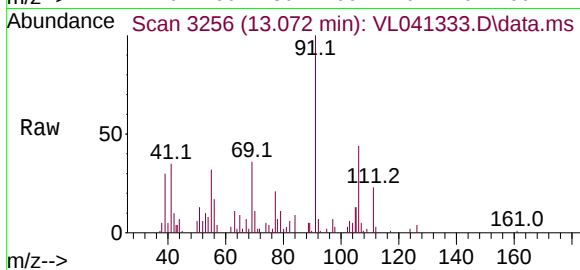
ClientSampleId :

Tgt Ion: 91 Resp: 16836

Ion Ratio Lower Upper

91 100

106 0.0 22.8 68.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.352 ppbv

RT: 13.786 min Scan# 3478

Delta R.T. 0.016 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

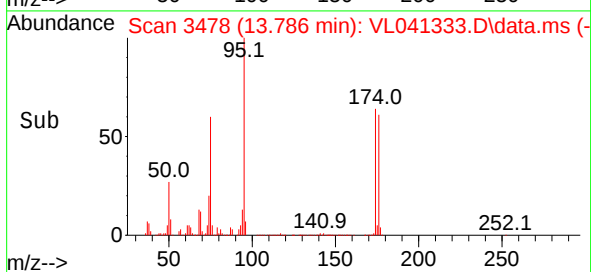
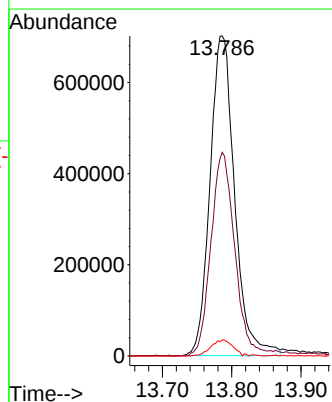
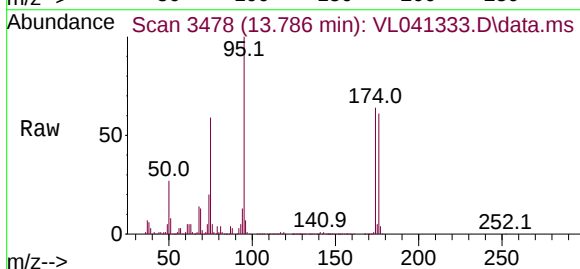
Tgt Ion: 95 Resp: 1729217

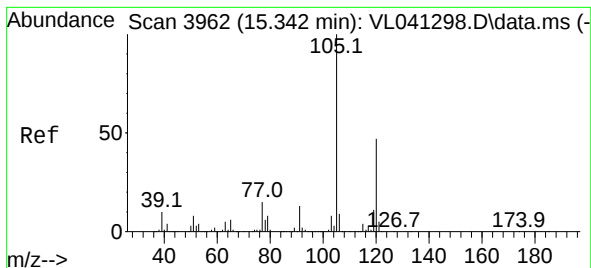
Ion Ratio Lower Upper

95 100

174 64.3 52.2 78.2

175 4.7 4.1 6.1





#73

1,3,5-Trimethylbenzene

Concen: 0.065 ppbv

RT: 15.365 min Scan# 3969

Delta R.T. 0.022 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

Instrument :

MSVOA_L

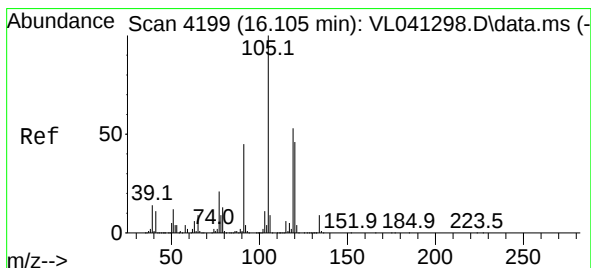
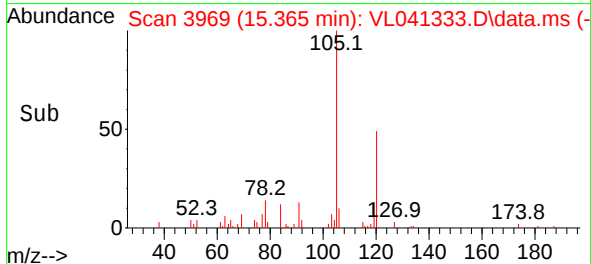
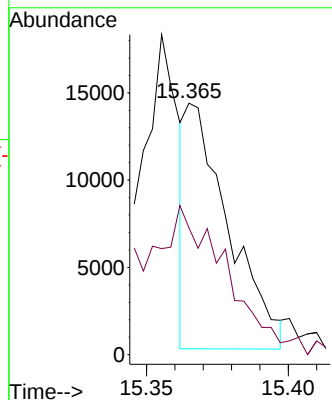
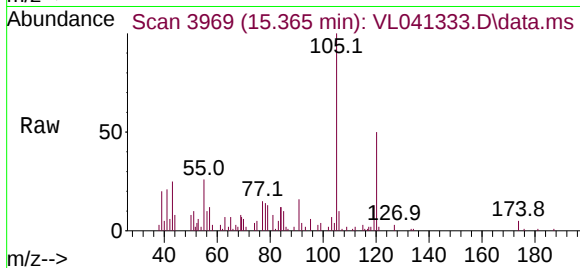
ClientSampleId :

Tgt Ion:105 Resp: 14892

Ion Ratio Lower Upper

105 100

120 52.8 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 0.541 ppbv

RT: 16.117 min Scan# 4203

Delta R.T. 0.013 min

Lab File: VL041333.D

Acq: 5 Jun 2024 18:53

Tgt Ion:105 Resp: 140255

Ion Ratio Lower Upper

105 100

120 45.6 37.0 55.6

91 11.9 36.2 54.4#

77 11.5 16.6 24.8#

