

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080824\
 Data File : VL041520.D
 Acq On : 8 Aug 2024 19:57
 Operator : SY/MD
 Sample : P3496-06DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL

Quant Time: Aug 09 05:59:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 06 01:32:58 2024
 Response via : Initial Calibration

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

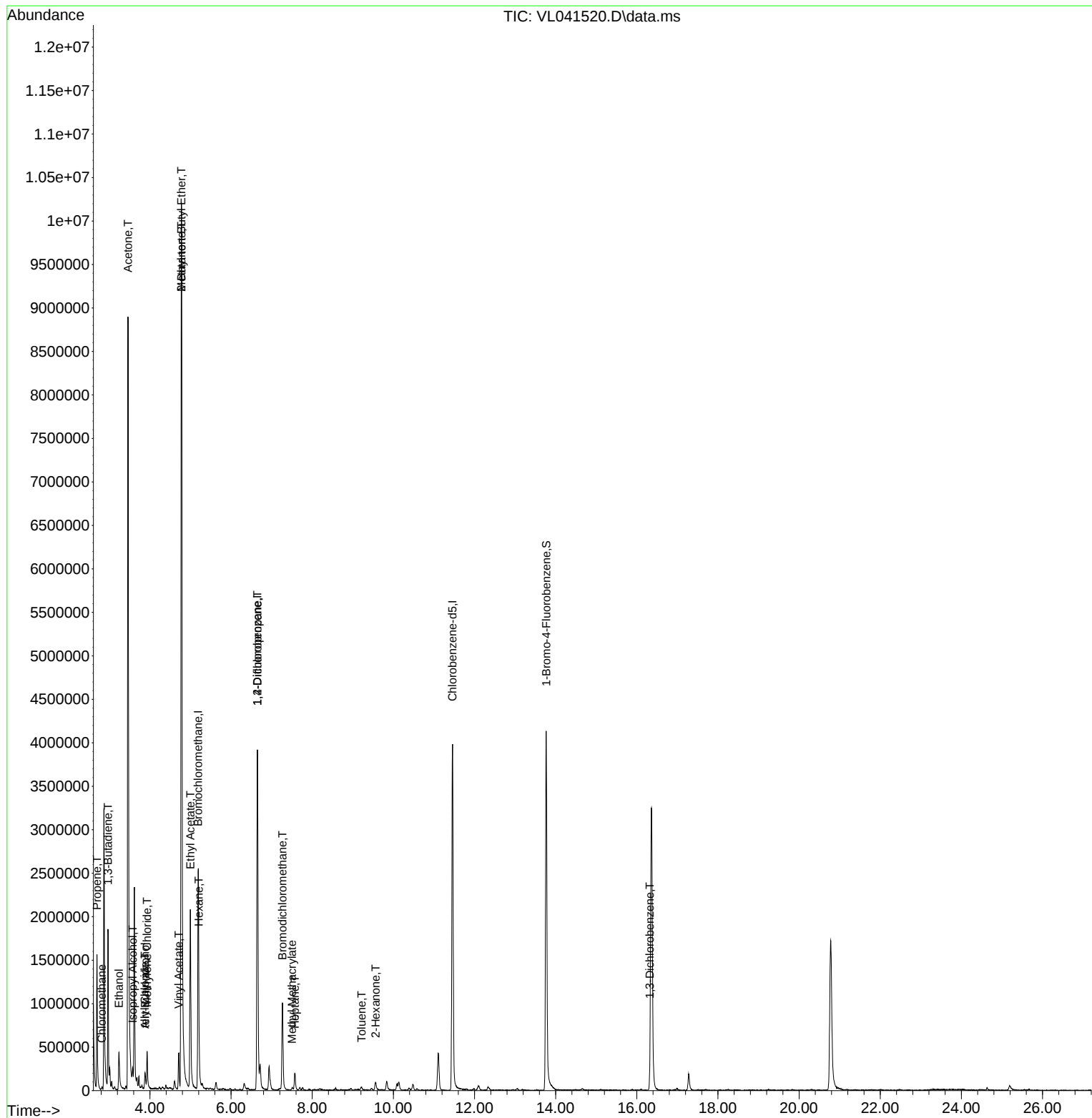
Internal Standards						
1) Bromochloromethane	5.188	49	1159553	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2968527	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2679635	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2062584	10.002	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.000%	
Target Compounds						
					Qvalue	
4) Chloromethane	2.812	50	8728	0.119	ppbv #	88
9) Propene	2.693	41	625292	9.861	ppbv	98
10) Heptane	7.574	43	42322	0.297	ppbv #	19
13) Ethanol	3.237	45	499595	88.149	ppbv	94
15) Acetone	3.459	43	9265319	70.325	ppbv #	85
16) 1,3-Butadiene	2.967	39	426346	6.057	ppbv #	18
17) tert-Butyl alcohol	3.880	59	152218	1.267	ppbv	95
19) Isopropyl Alcohol	3.574	45	191339	2.484	ppbv #	93
20) Methylene Chloride	3.931	84	128942	2.625	ppbv	96
21) Allyl Chloride	3.877	41	44395	0.514	ppbv #	63
23) Vinyl Acetate	4.709	43	131183	1.304	ppbv #	7
25) Ethyl Acetate	4.999	43	312314	1.193	ppbv #	1
26) Hexane	5.205	57	109748	1.011	ppbv #	6
28) Methyl tert-Butyl Ether	4.774	73	167738	2.450	ppbv #	1
34) 2-Butanone	4.777	43	12613546	87.839	ppbv #	88
39) 1,2-Dichloropropane	6.648	63	738102	8.888	ppbv #	26
42) Bromodichloromethane	7.269	83	16624	0.095	ppbv #	25
43) Methyl Methacrylate	7.500	69	2839	0.036	ppbv #	1
51) 2-Hexanone	9.561	43	82439	0.481	ppbv #	92
53) Toluene	9.217	91	13109	0.054	ppbv #	44
75) 1,3-Dichlorobenzene	16.323	146	26059	0.139	ppbv #	33

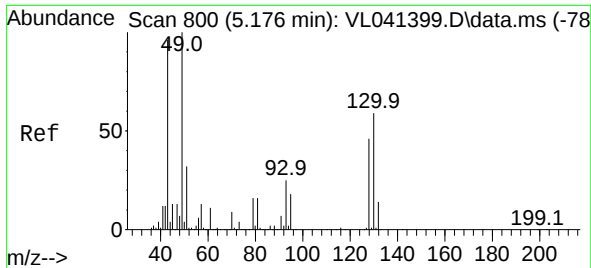
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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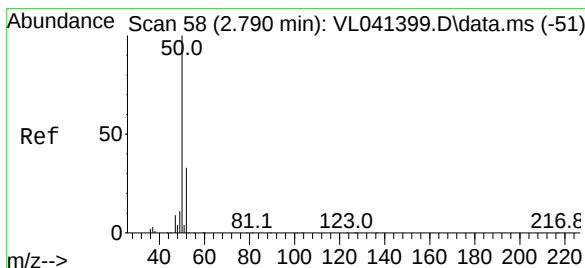
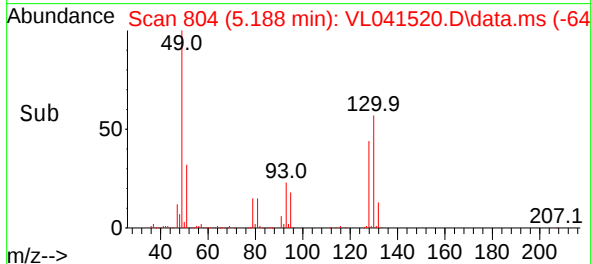
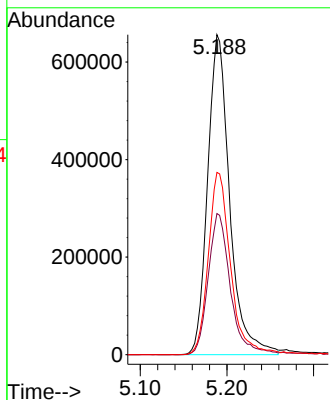
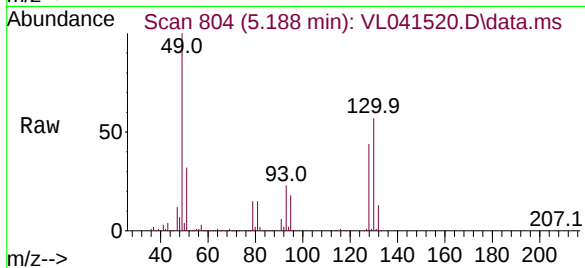




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.188 min Scan# 80
Delta R.T. -0.001 min
Lab File: VL041520.D
Acq: 8 Aug 2024 19:57

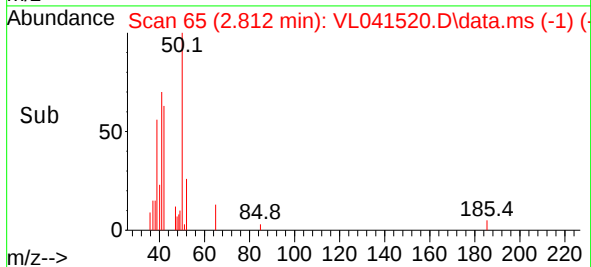
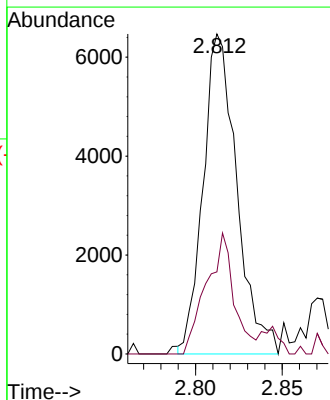
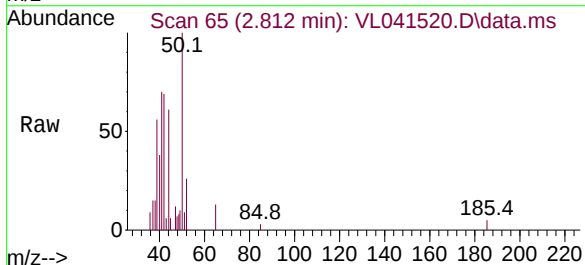
Instrument :
MSVOA_L
ClientSampleId :
SV-3DL

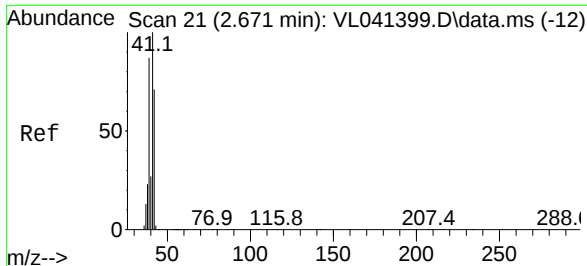
Tgt Ion: 49 Resp: 1159553
Ion Ratio Lower Upper
49 100
128 45.3 23.8 71.4
130 58.6 30.8 92.4



#4
Chloromethane
Concen: 0.119 ppbv
RT: 2.812 min Scan# 65
Delta R.T. -0.003 min
Lab File: VL041520.D
Acq: 8 Aug 2024 19:57

Tgt Ion: 50 Resp: 8728
Ion Ratio Lower Upper
50 100
52 25.7 26.1 39.1#

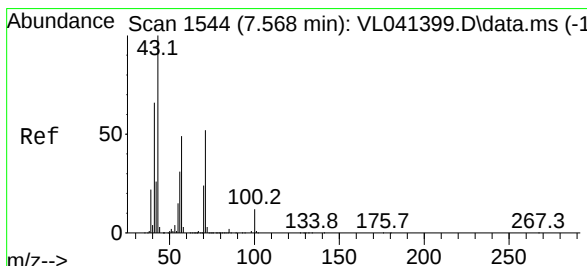
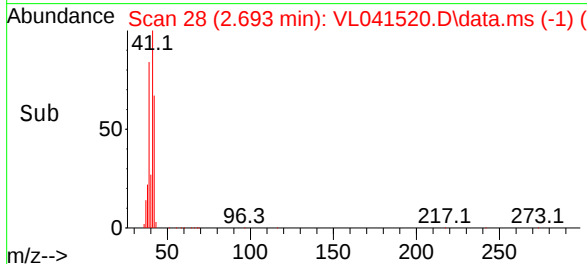
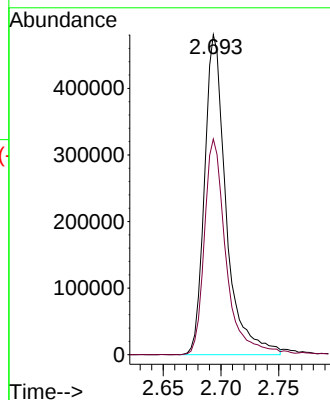
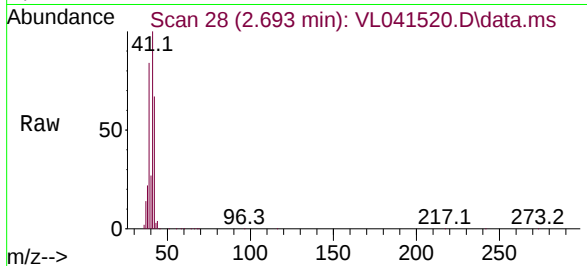




#9
Propene
Concen: 9.861 ppbv
RT: 2.693 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041520.D
Acq: 8 Aug 2024 19:57

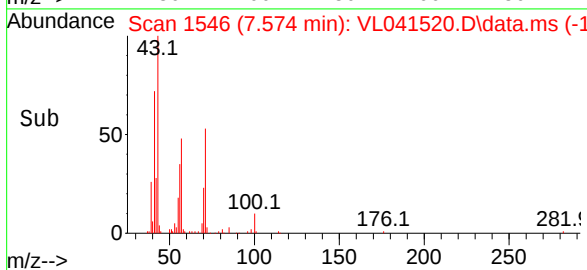
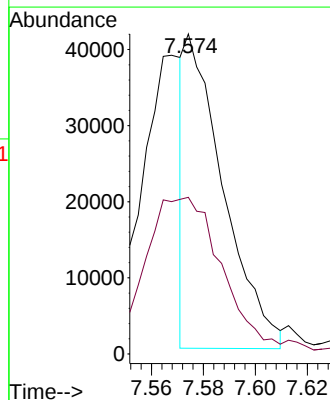
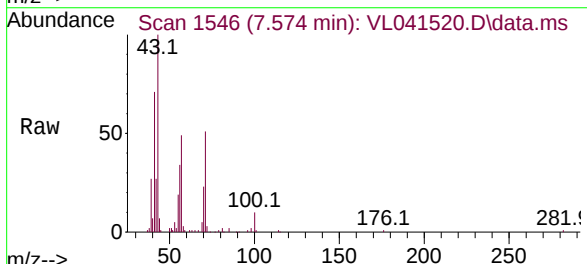
Instrument :
MSVOA_L
ClientSampleId :
SV-3DL

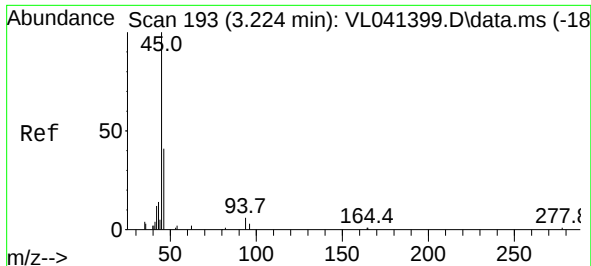
Tgt Ion: 41 Resp: 625292
Ion Ratio Lower Upper
41 100
42 68.4 55.9 83.9



#10
Heptane
Concen: 0.297 ppbv
RT: 7.574 min Scan# 1546
Delta R.T. -0.000 min
Lab File: VL041520.D
Acq: 8 Aug 2024 19:57

Tgt Ion: 43 Resp: 42322
Ion Ratio Lower Upper
43 100
57 106.9 40.5 60.7#





#13

Ethanol

Concen: 88.149 ppbv

RT: 3.237 min Scan# 197

Delta R.T. -0.007 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

Instrument :

MSVOA_L

ClientSampleId :

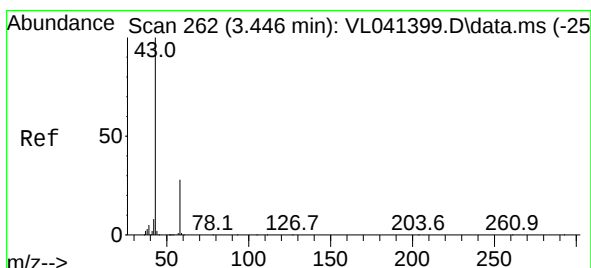
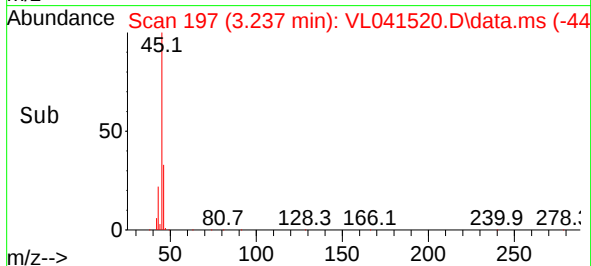
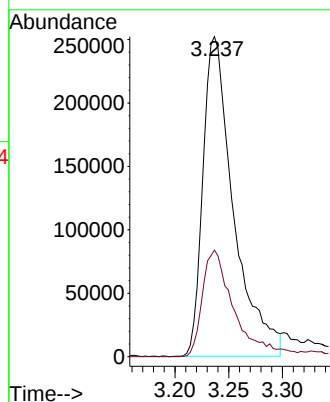
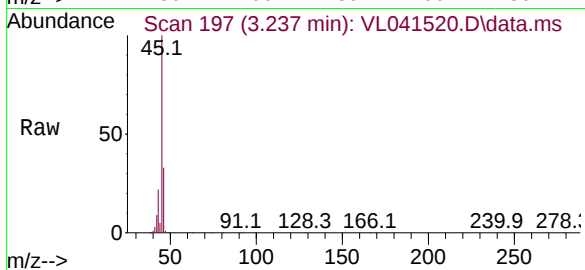
SV-3DL

Tgt Ion: 45 Resp: 499595

Ion Ratio Lower Upper

45 100

46 36.6 13.4 53.4



#15

Acetone

Concen: 70.325 ppbv

RT: 3.459 min Scan# 266

Delta R.T. -0.010 min

Lab File: VL041520.D

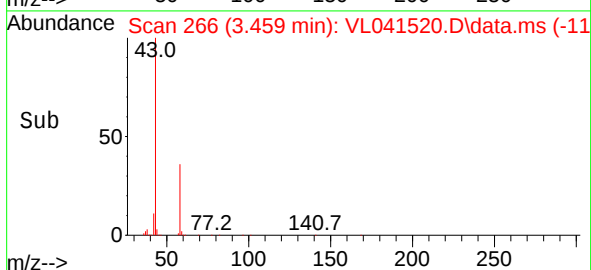
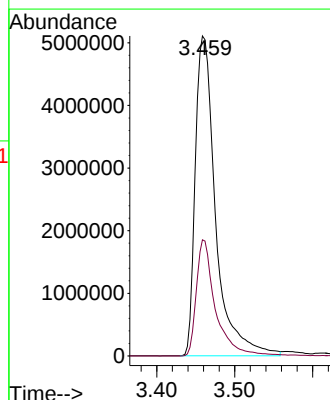
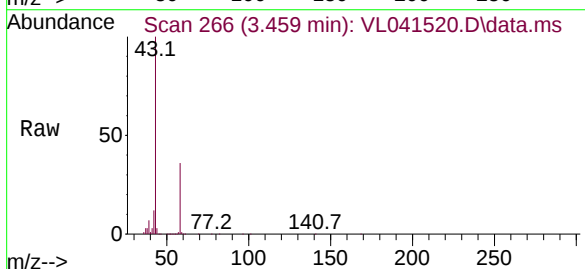
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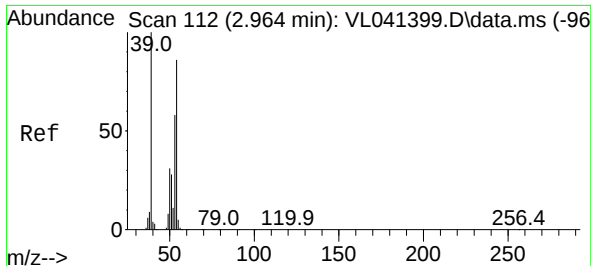
Tgt Ion: 43 Resp: 9265319

Ion Ratio Lower Upper

43 100

58 34.6 21.4 32.2#





#16

1,3-Butadiene

Concen: 6.057 ppbv

RT: 2.967 min Scan# 112

Delta R.T. -0.019 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

Instrument :

MSVOA_L

ClientSampleId :

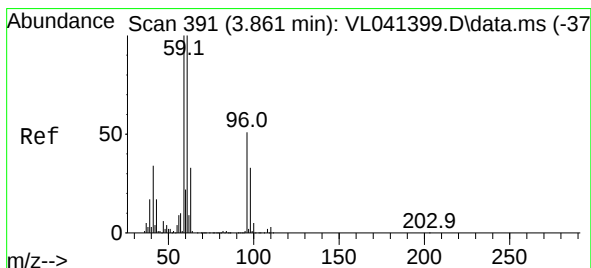
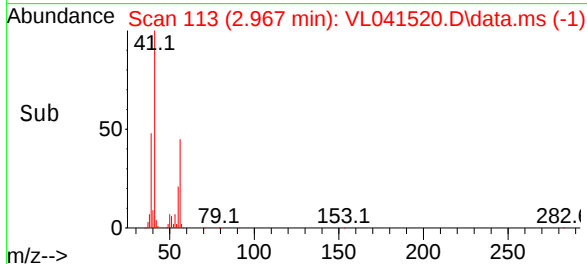
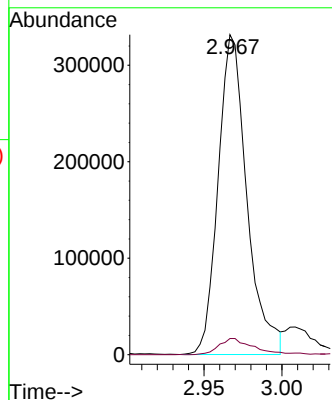
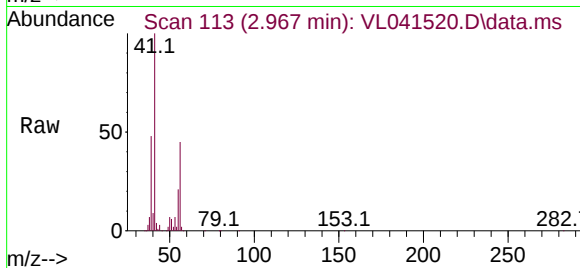
SV-3DL

Tgt Ion: 39 Resp: 426346

Ion Ratio Lower Upper

39 100

54 6.4 62.5 93.7#



#17

tert-Butyl alcohol

Concen: 1.267 ppbv

RT: 3.880 min Scan# 397

Delta R.T. 0.003 min

Lab File: VL041520.D

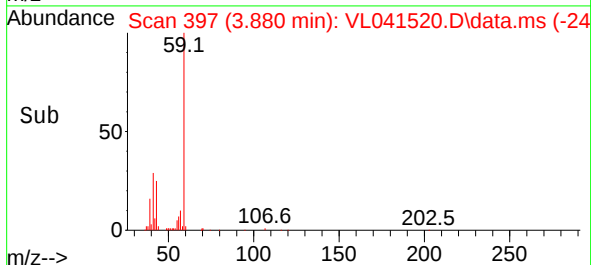
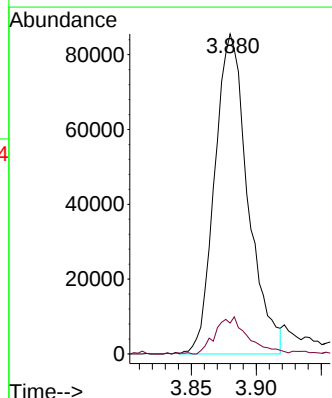
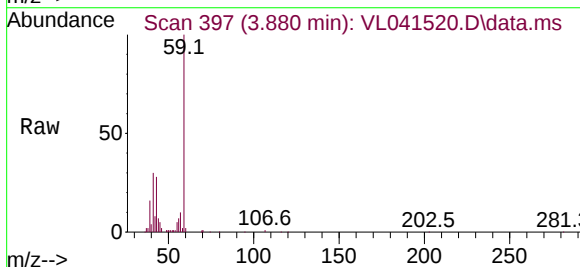
Acq: 8 Aug 2024 19:57

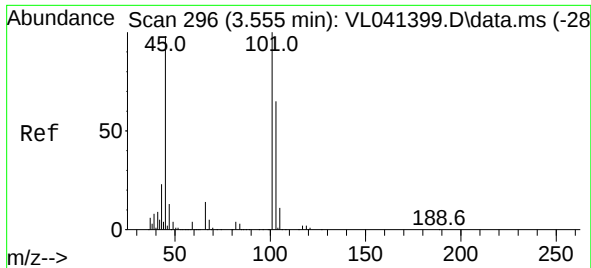
Tgt Ion: 59 Resp: 152218

Ion Ratio Lower Upper

59 100

57 12.6 8.6 12.8





#19

Isopropyl Alcohol

Concen: 2.484 ppbv

RT: 3.574 min Scan# 302

Delta R.T. -0.000 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

Instrument :

MSVOA_1

ClientSampleId :

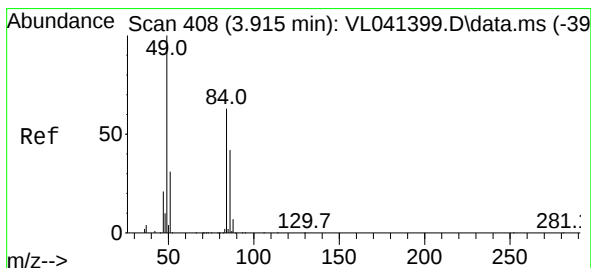
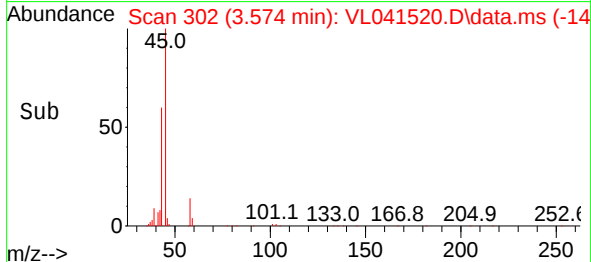
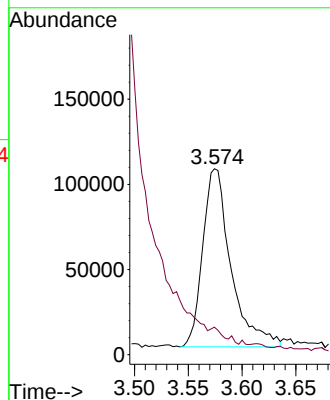
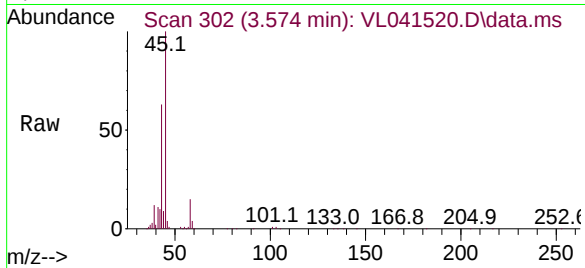
SV-3DL

Tgt Ion: 45 Resp: 191339

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



#20

Methylene Chloride

Concen: 2.625 ppbv

RT: 3.931 min Scan# 413

Delta R.T. -0.000 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

Tgt Ion: 84 Resp: 128942

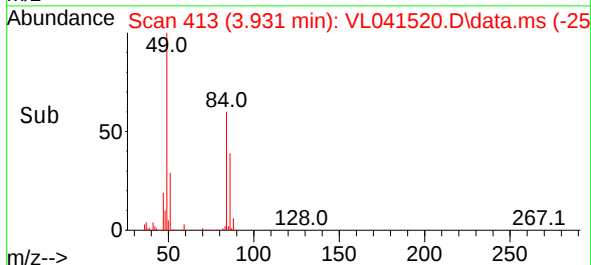
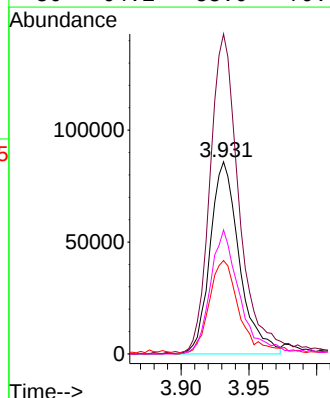
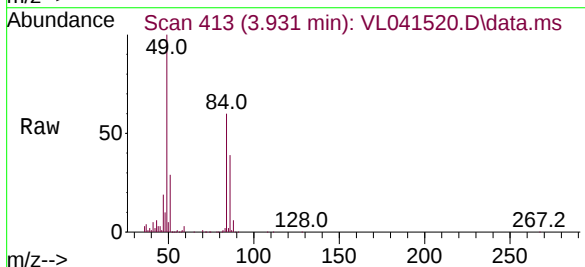
Ion Ratio Lower Upper

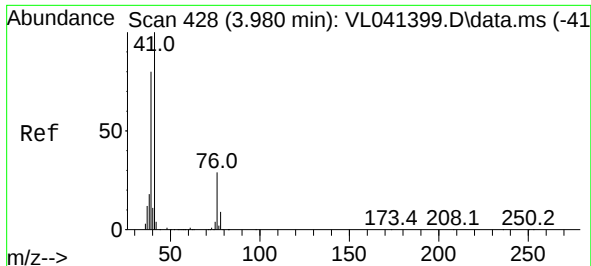
84 100

49 166.0 126.6 190.0

51 47.9 38.6 58.0

86 64.1 53.0 79.4





#21

Allyl Chloride

Concen: 0.514 ppbv

RT: 3.877 min Scan# 30

Delta R.T. -0.119 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

Instrument :

MSVOA_L

ClientSampleId :

SV-3DL

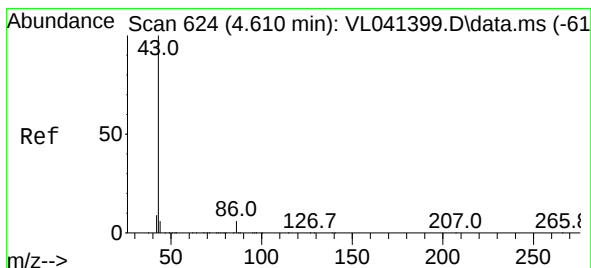
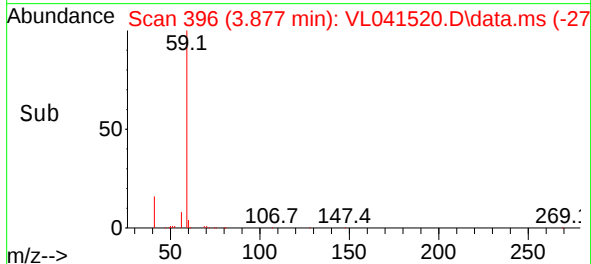
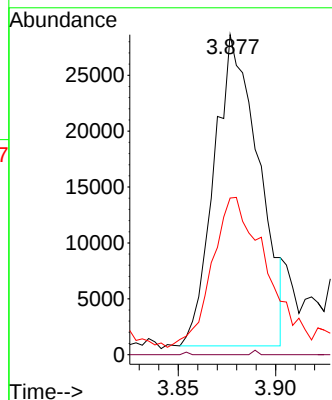
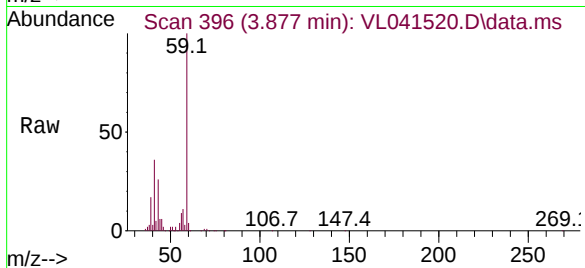
Tgt Ion: 41 Resp: 44395

Ion Ratio Lower Upper

41 100

76 0.0 23.7 35.5#

39 53.9 64.3 96.5#



#23

Vinyl Acetate

Concen: 1.304 ppbv

RT: 4.709 min Scan# 655

Delta R.T. 0.083 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

Tgt Ion: 43 Resp: 131183

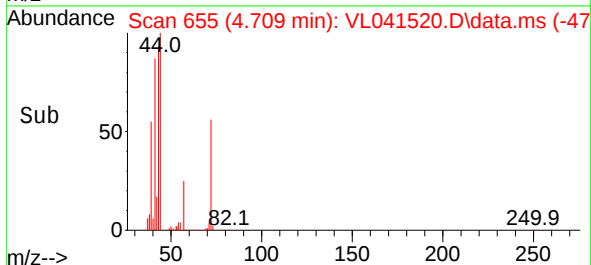
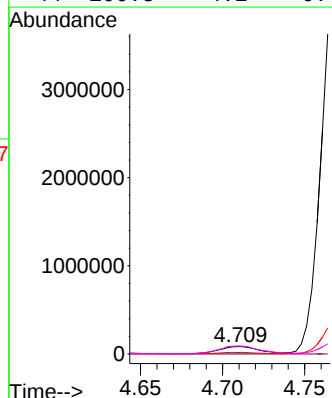
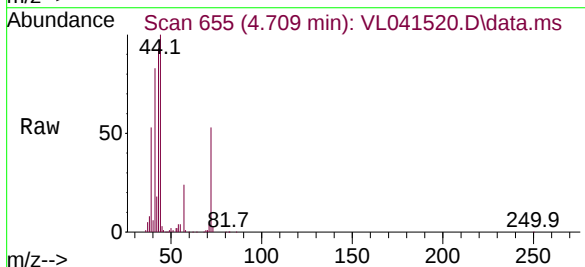
Ion Ratio Lower Upper

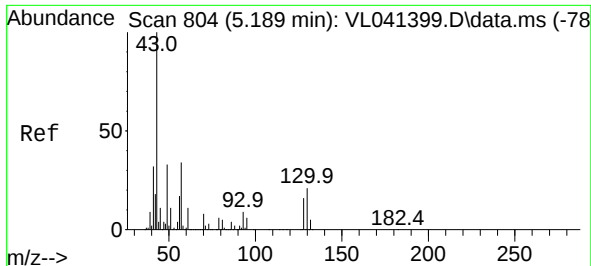
43 100

86 0.3 4.6 6.8#

42 18.7 7.9 11.9#

44 106.8 4.2 6.4#

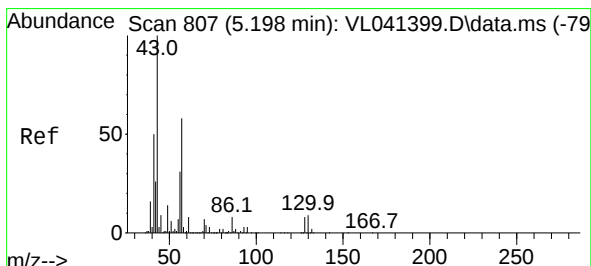
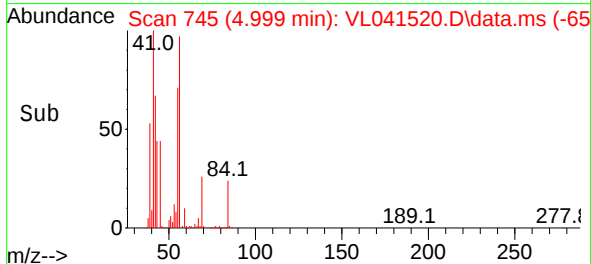
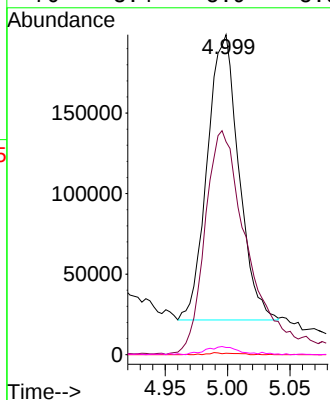
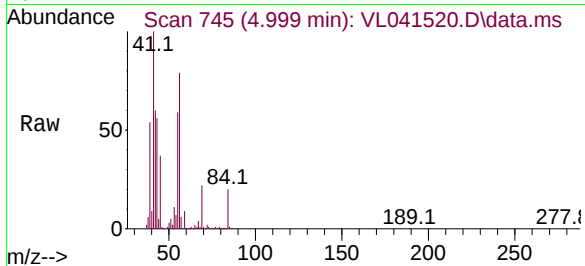




#25
Ethyl Acetate
Concen: 1.193 ppbv
RT: 4.999 min Scan# 745
Delta R.T. -0.203 min
Lab File: VL041520.D
Acq: 8 Aug 2024 19:57

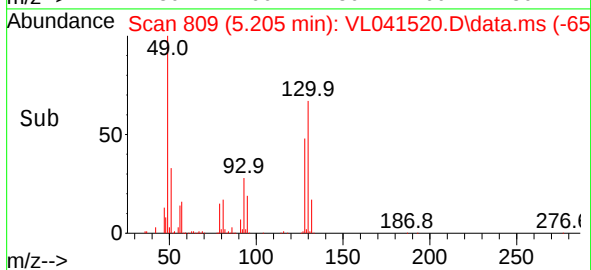
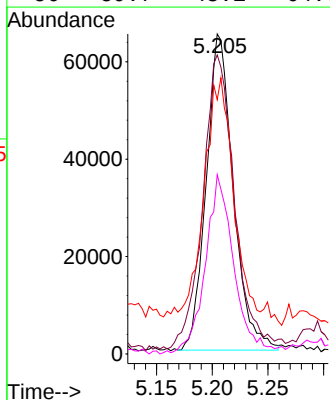
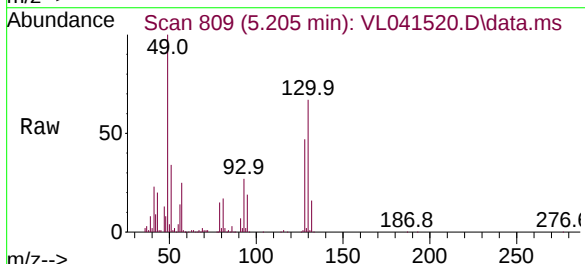
Instrument :
MSVOA_L
ClientSampleId :
SV-3DL

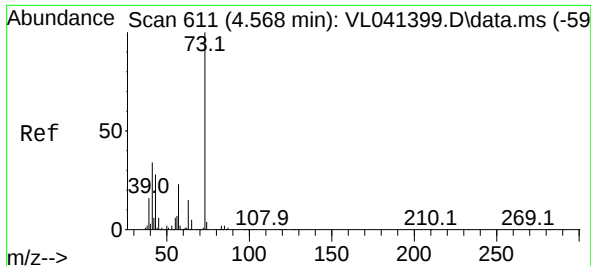
Tgt Ion: 43 Resp: 312314
Ion Ratio Lower Upper
43 100
45 112.8 8.5 12.7#
61 0.6 8.0 12.0#
70 3.4 5.9 8.9#



#26
Hexane
Concen: 1.011 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.007 min
Lab File: VL041520.D
Acq: 8 Aug 2024 19:57

Tgt Ion: 57 Resp: 109748
Ion Ratio Lower Upper
57 100
41 109.6 74.0 111.0
43 0.0 193.6 290.4#
56 59.7 43.1 64.7





#28

Methyl tert-Butyl Ether

Concen: 2.450 ppbv

RT: 4.774 min Scan# 61

Delta R.T. 0.193 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

Instrument :

MSVOA_L

ClientSampleId :

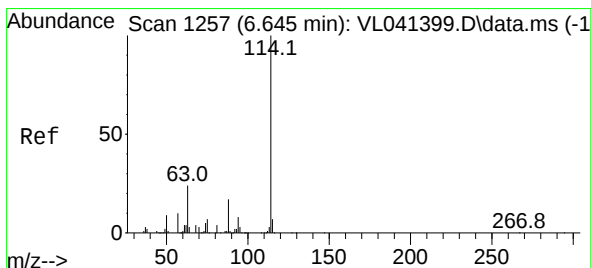
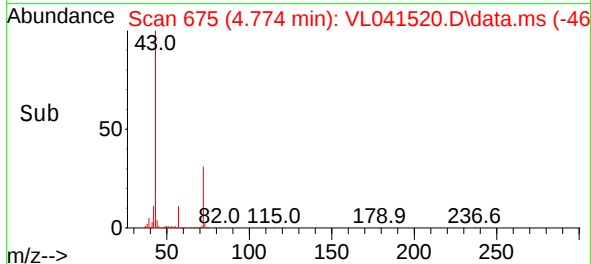
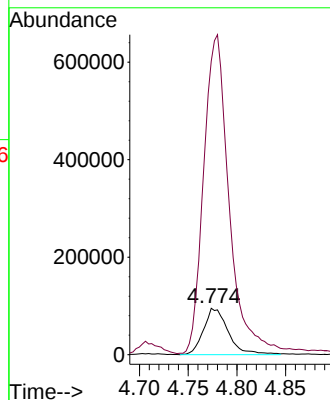
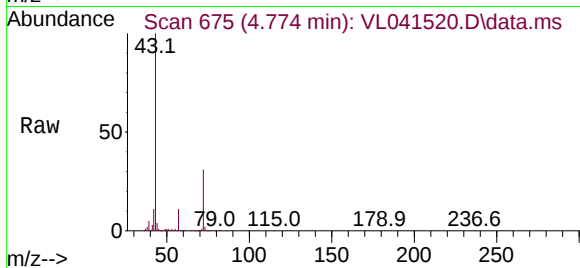
SV-3DL

Tgt Ion: 73 Resp: 167738

Ion Ratio Lower Upper

73 100

57 728.1 18.9 28.3#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 1258

Delta R.T. -0.000 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

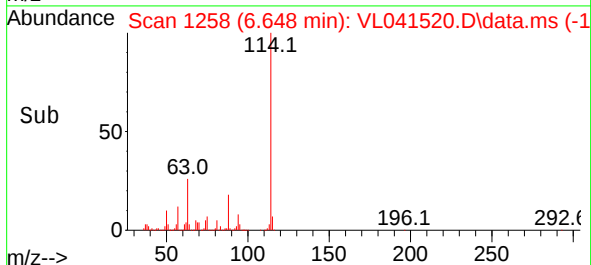
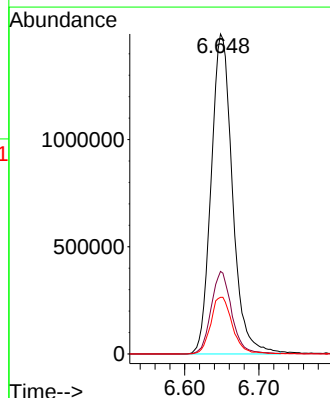
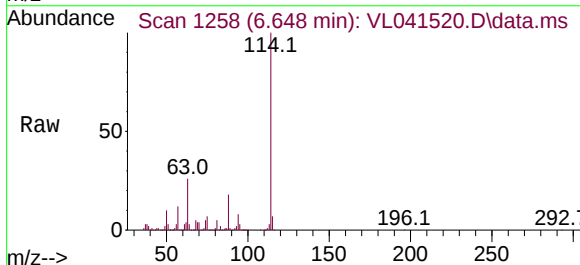
Tgt Ion:114 Resp: 2968527

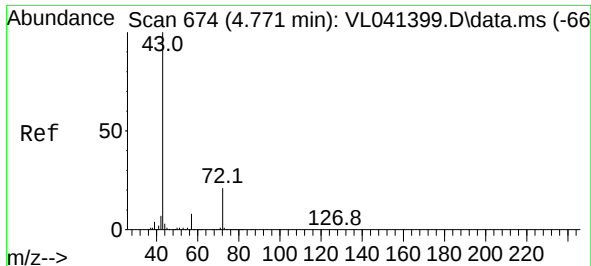
Ion Ratio Lower Upper

114 100

63 25.2 20.3 30.5

88 18.1 14.3 21.5





#34

2-Butanone

Concen: 87.839 ppbv

RT: 4.777 min Scan# 61

Delta R.T. -0.007 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

Instrument :

MSVOA_L

ClientSampleId :

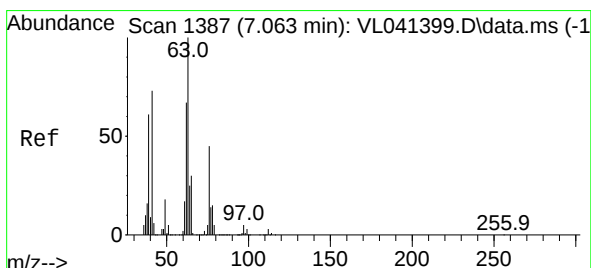
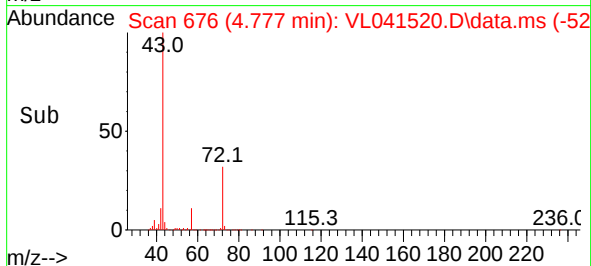
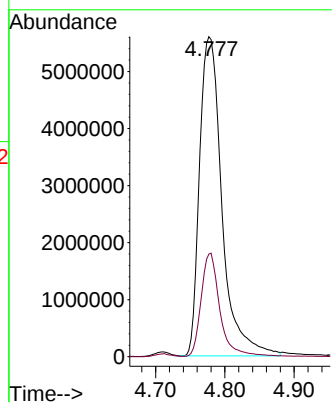
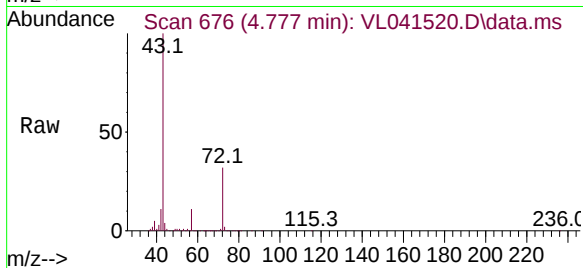
SV-3DL

Tgt Ion: 43 Resp:12613546

Ion Ratio Lower Upper

43 100

72 27.2 17.3 25.9#



#39

1,2-Dichloropropane

Concen: 8.888 ppbv

RT: 6.648 min Scan# 1258

Delta R.T. -0.421 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

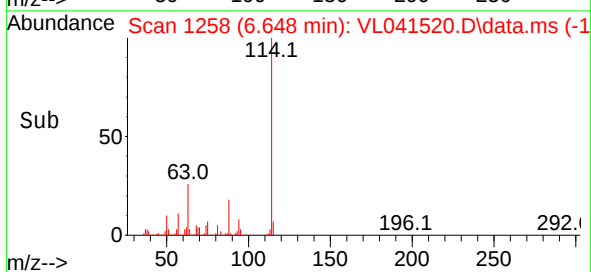
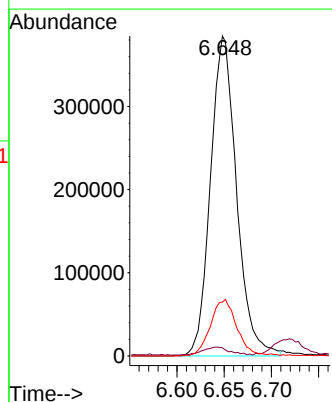
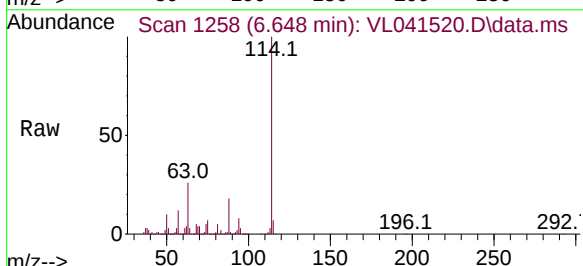
Tgt Ion: 63 Resp: 738102

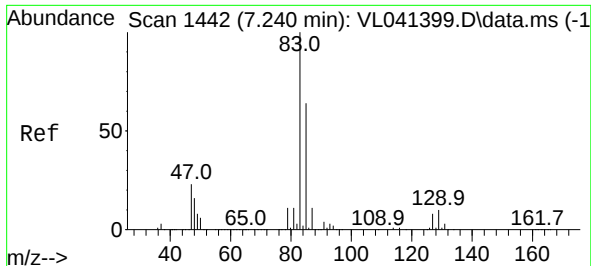
Ion Ratio Lower Upper

63 100

41 2.5 58.3 87.5#

62 16.8 53.9 80.9#





#42

Bromodichloromethane

Concen: 0.095 ppbv

RT: 7.269 min Scan# 1442

Delta R.T. 0.022 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

Instrument :

MSVOA_L

ClientSampleId :

SV-3DL

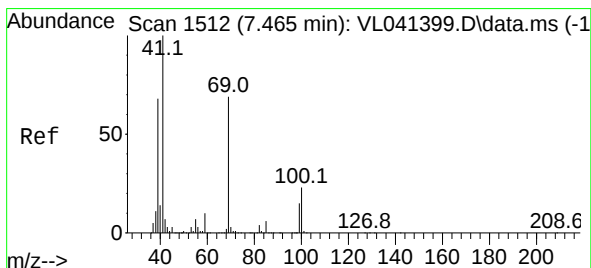
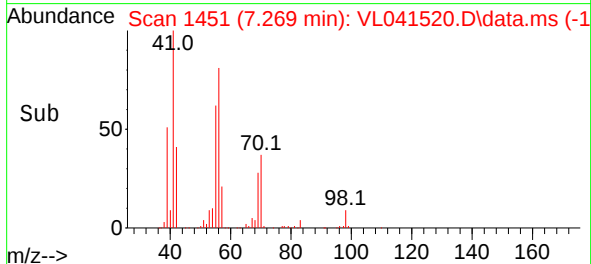
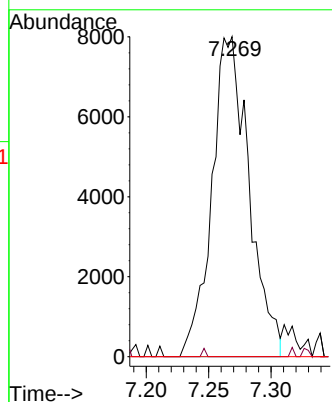
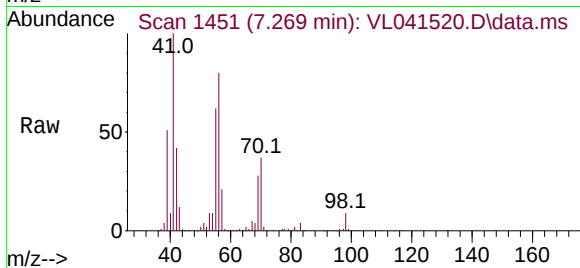
Tgt Ion: 83 Resp: 16624

Ion Ratio Lower Upper

83 100

85 0.0 51.4 77.0#

127 0.0 6.7 10.1#



#43

Methyl Methacrylate

Concen: 0.036 ppbv

RT: 7.500 min Scan# 1523

Delta R.T. 0.032 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

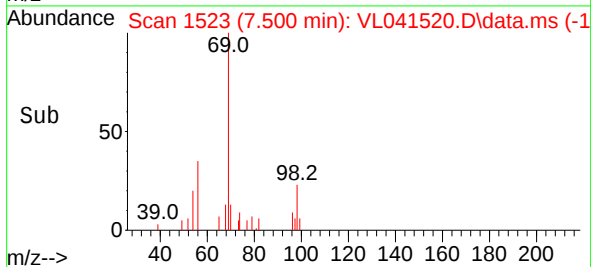
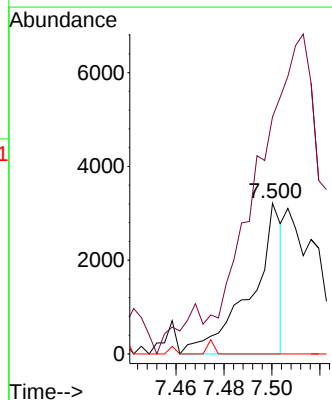
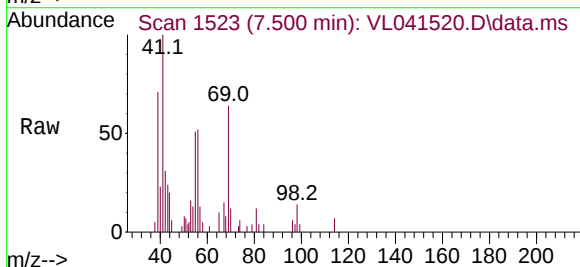
Tgt Ion: 69 Resp: 2839

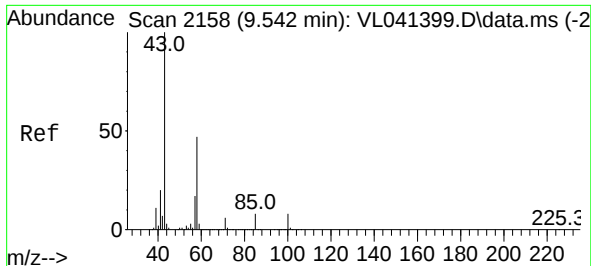
Ion Ratio Lower Upper

69 100

41 2511.6 118.7 178.1#

100 361.7 27.0 40.4#

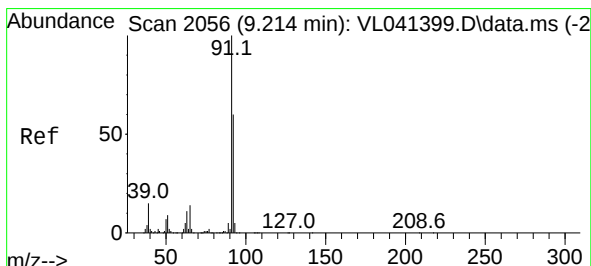
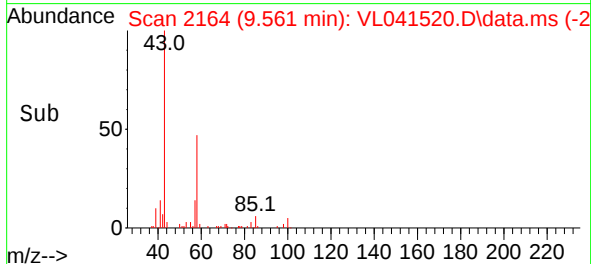
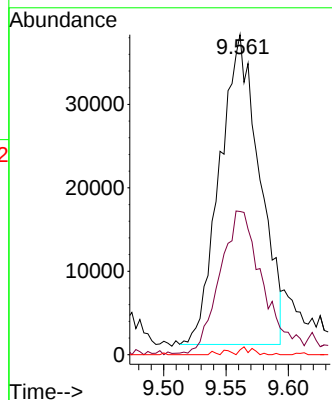
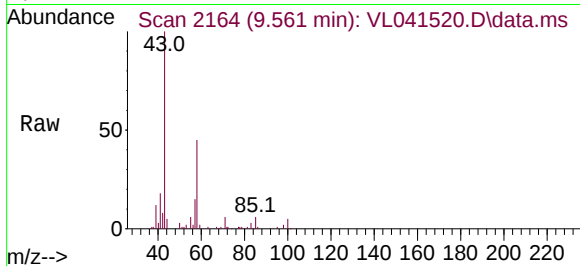




#51
2-Hexanone
Concen: 0.481 ppbv
RT: 9.561 min Scan# 2158
Delta R.T. 0.016 min
Lab File: VL041520.D
Acq: 8 Aug 2024 19:57

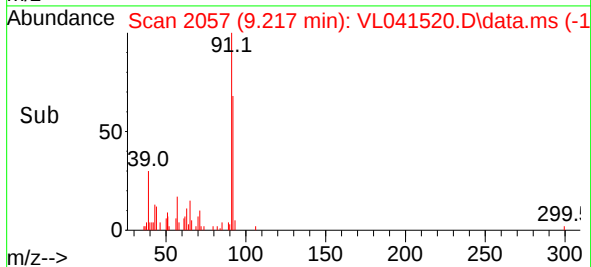
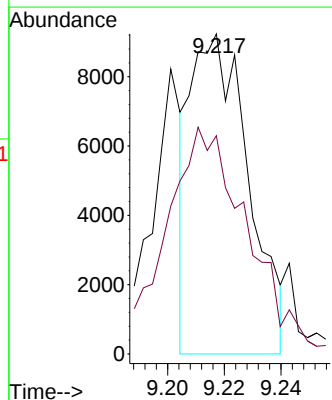
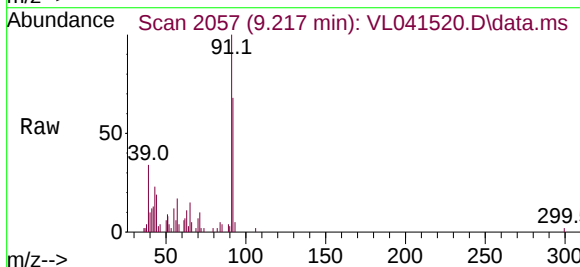
Instrument :
MSVOA_L
ClientSampleId :
SV-3DL

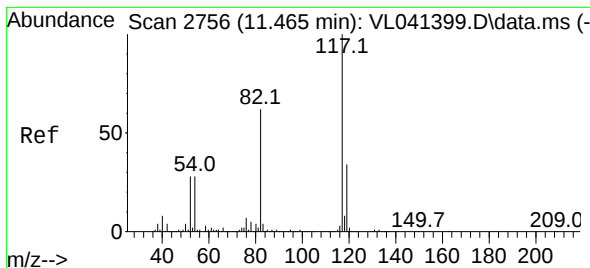
Tgt Ion: 43 Resp: 82439
Ion Ratio Lower Upper
43 100
58 52.9 38.2 57.2
98 1.2 0.3 0.5#



#53
Toluene
Concen: 0.054 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VL041520.D
Acq: 8 Aug 2024 19:57

Tgt Ion: 91 Resp: 13109
Ion Ratio Lower Upper
91 100
92 103.7 48.7 73.1#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

Instrument :

MSVOA_L

ClientSampleId :

SV-3DL

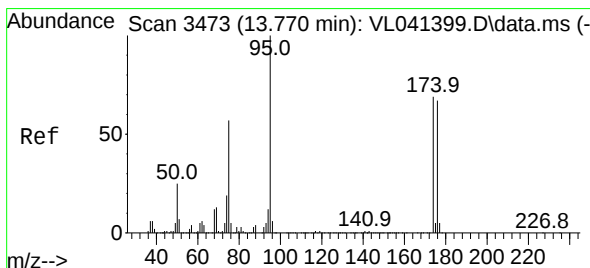
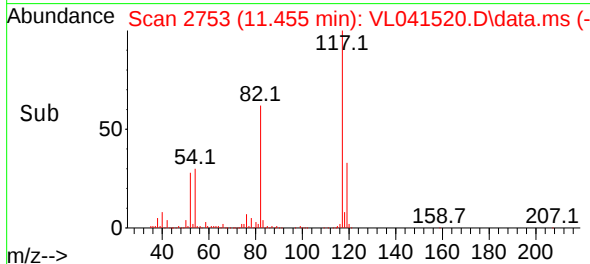
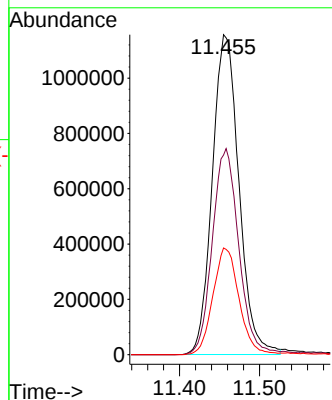
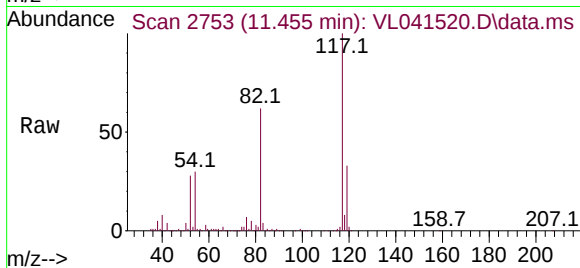
Tgt Ion:117 Resp: 2679635

Ion Ratio Lower Upper

117 100

82 65.0 51.0 76.6

119 33.5 45.2 67.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.002 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. -0.000 min

Lab File: VL041520.D

Acq: 8 Aug 2024 19:57

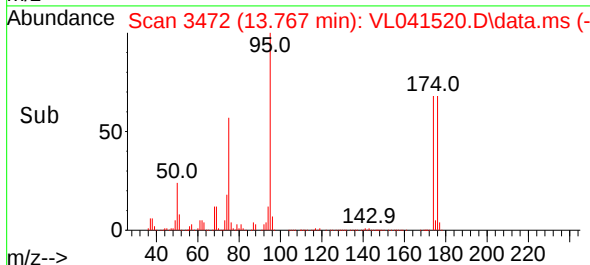
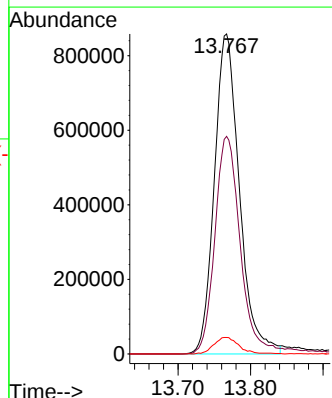
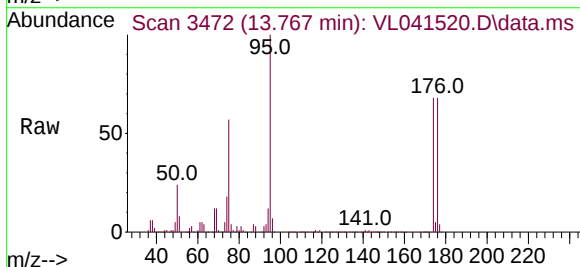
Tgt Ion: 95 Resp: 2062584

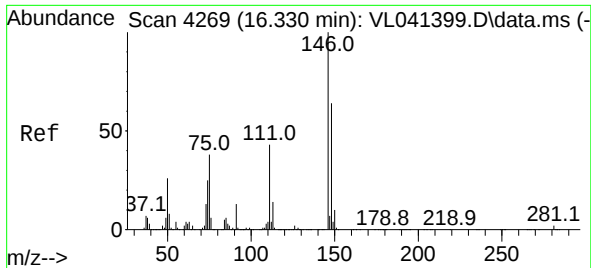
Ion Ratio Lower Upper

95 100

174 71.2 56.3 84.5

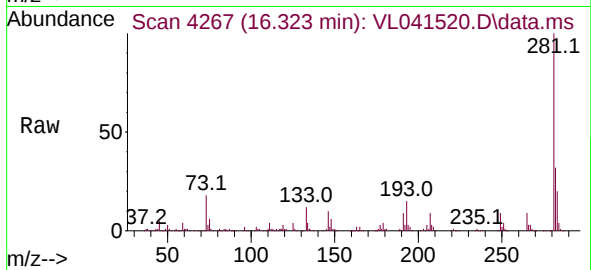
175 5.2 4.0 6.0





#75
 1,3-Dichlorobenzene
 Concen: 0.139 ppbv
 RT: 16.323 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL041520.D
 Acq: 8 Aug 2024 19:57

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL



Tgt Ion:146 Resp: 26059
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.6 67.8#
 148 115.6 32.3 96.8#

