

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041685.D
 Acq On : 7 Nov 2024 19:44
 Operator : SY/MD
 Sample : P4696-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Nov 08 03:52:53 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 08 01:01:00 2024
 Response via : Initial Calibration

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

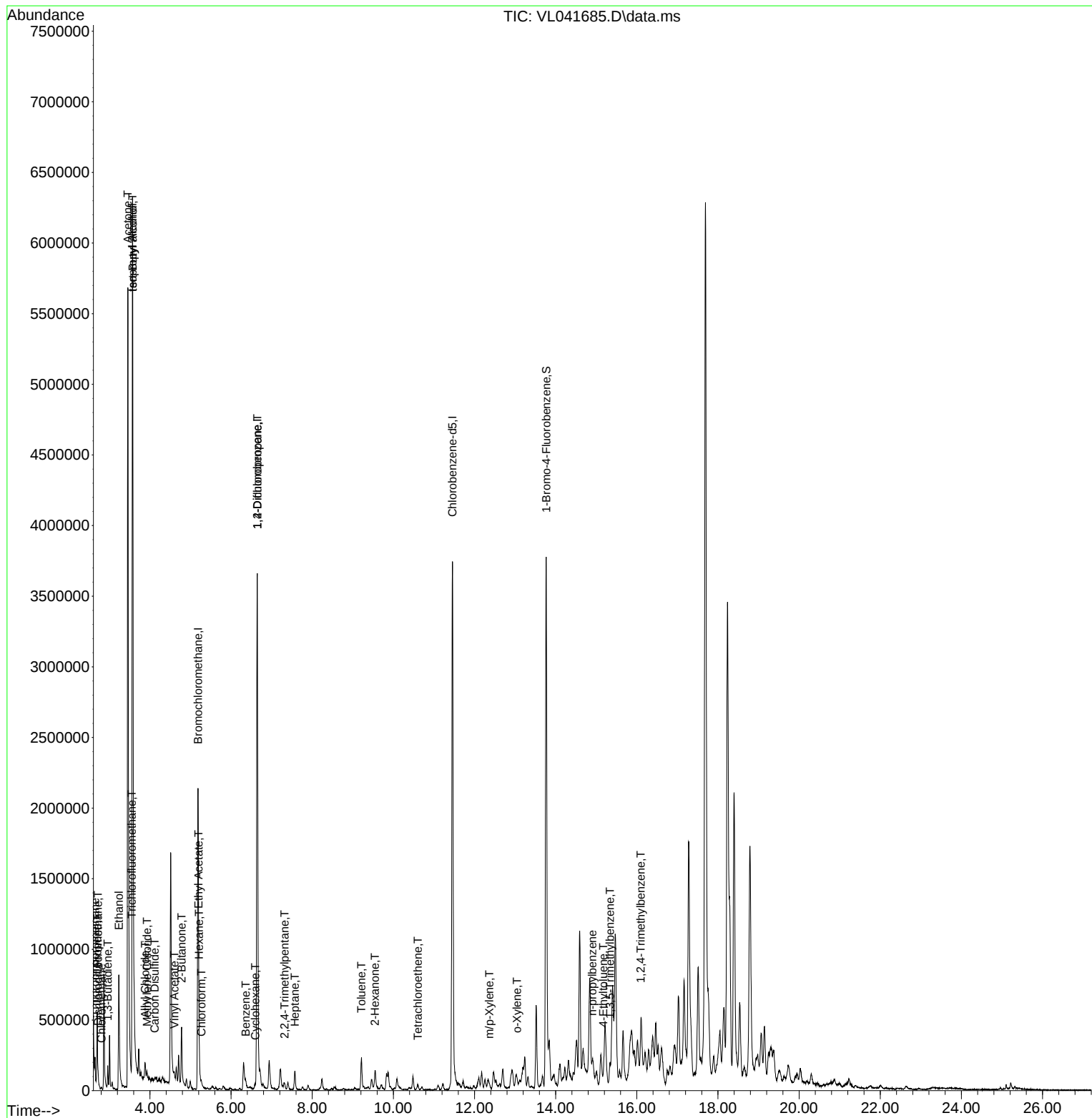
Internal Standards						
1) Bromochloromethane	5.185	49	997762	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2739725	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2460095	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1817731	10.028	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.300%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.722	85	49514	0.275	ppbv	94
3) Chlorodifluoromethane	2.648	51	115534	0.889	ppbv #	70
4) Chloromethane	2.806	50	11659	0.169	ppbv	96
9) Propene	2.700	41	126368	2.231	ppbv #	78
10) Heptane	7.571	43	41446	0.327	ppbv	88
11) Trichlorofluoromethane	3.552	101	10327	0.066	ppbv	98
13) Ethanol	3.234	45	886981	255.724	ppbv	100
15) Acetone	3.455	43	5965604	48.581	ppbv	95
16) 1,3-Butadiene	2.960	39	38141	0.616	ppbv #	35
17) tert-Butyl alcohol	3.574	59	271446	2.519	ppbv	98
19) Isopropyl Alcohol	3.571	45	7037090	119.897	ppbv #	97
20) Methylene Chloride	3.928	84	14015	0.310	ppbv	97
21) Allyl Chloride	3.880	41	33048	0.436	ppbv #	72
23) Vinyl Acetate	4.603	43	17989	0.332	ppbv #	28
25) Ethyl Acetate	5.201	43	58816	0.231	ppbv #	86
26) Hexane	5.208	57	66127	0.677	ppbv #	36
27) Carbon Disulfide	4.121	76	18119	0.165	ppbv #	79
29) Chloroform	5.269	83	7148	0.044	ppbv	90
30) Cyclohexane	6.597	84	5461	0.066	ppbv #	1
34) 2-Butanone	4.780	43	430285	3.154	ppbv	99
36) Benzene	6.362	78	14968	0.074	ppbv	94
39) 1,2-Dichloropropane	6.645	63	681068	8.490	ppbv #	23
44) 2,2,4-Trimethylpentane	7.320	57	10420	0.030	ppbv #	42
51) 2-Hexanone	9.548	43	56689	0.372	ppbv #	31
52) Tetrachloroethene	10.603	164	5361	0.077	ppbv #	63
53) Toluene	9.214	91	159882	0.749	ppbv	100
59) m/p-Xylene	12.365	91	7435	0.031	ppbv #	30
60) o-Xylene	13.047	91	36974	0.161	ppbv	99
64) n-propylbenzene	14.905	120	3123	0.034	ppbv #	1
72) 4-Ethyltoluene	15.175	105	14175	0.053	ppbv #	54
73) 1,3,5-Trimethylbenzene	15.342	105	26675	0.114	ppbv	98
74) 1,2,4-Trimethylbenzene	16.095	105	145310	0.532	ppbv #	71

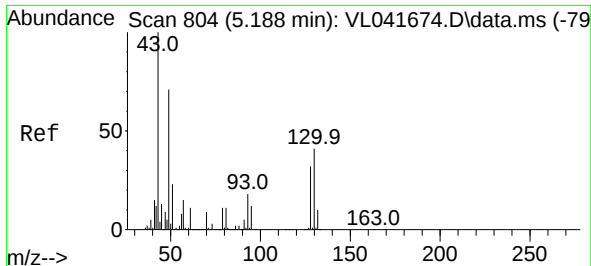
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
Data File : VL041685.D
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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 08 01:01:00 2024
Response via : Initial Calibration

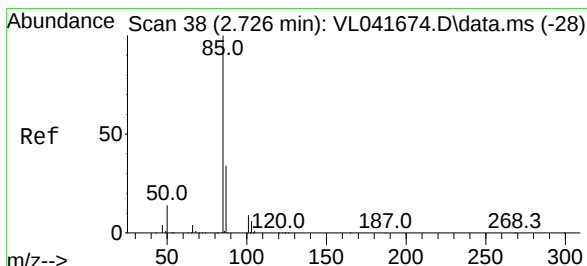
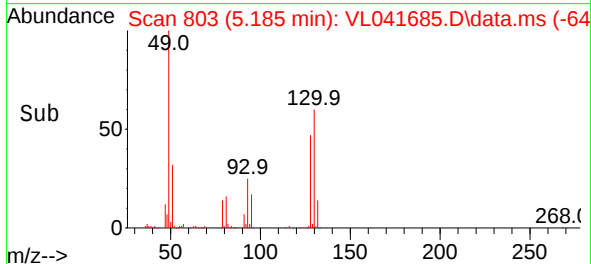
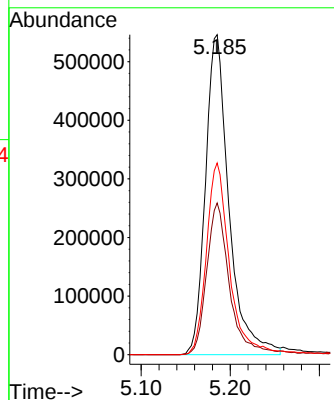
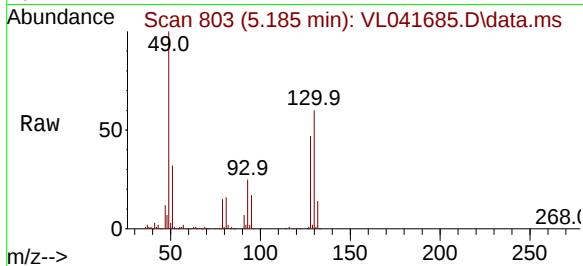




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.185 min Scan# 80
 Delta R.T. -0.003 min
 Lab File: VL041685.D
 Acq: 7 Nov 2024 19:44

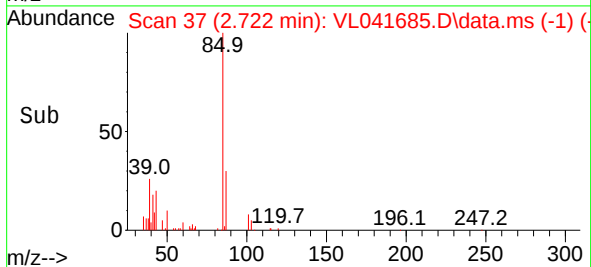
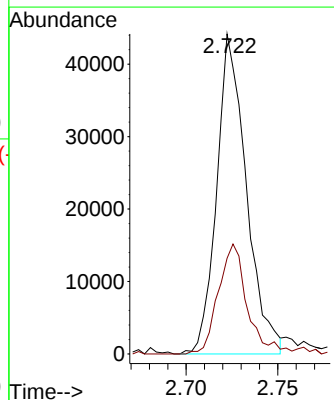
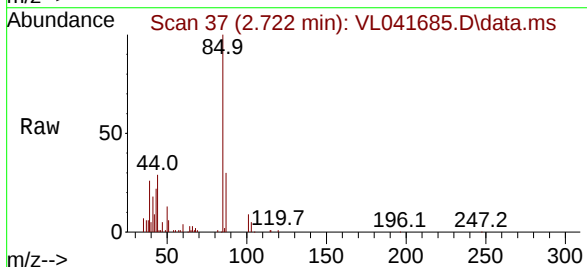
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

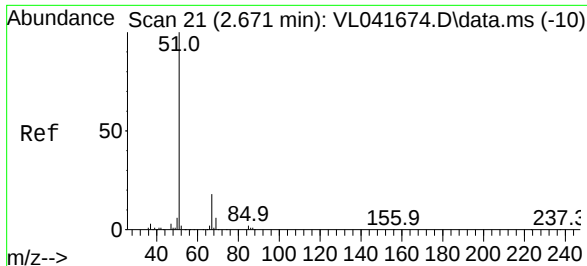
Tgt Ion: 49 Resp: 997762
 Ion Ratio Lower Upper
 49 100
 128 47.3 23.8 71.2
 130 60.5 30.1 90.5



#2
 Dichlorodifluoromethane
 Concen: 0.275 ppbv
 RT: 2.722 min Scan# 37
 Delta R.T. -0.003 min
 Lab File: VL041685.D
 Acq: 7 Nov 2024 19:44

Tgt Ion: 85 Resp: 49514
 Ion Ratio Lower Upper
 85 100
 87 29.9 26.8 40.2

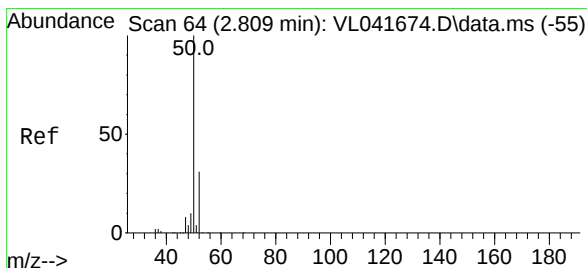
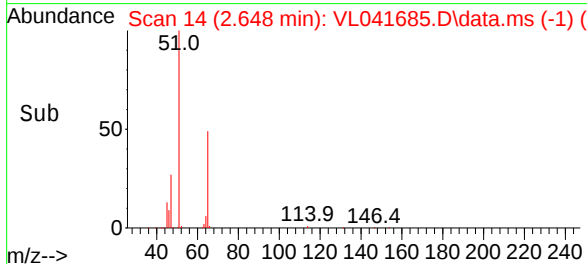
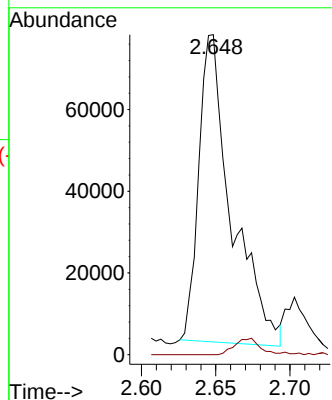
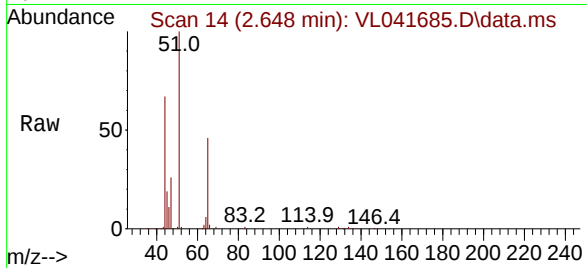




#3
Chlorodifluoromethane
Concen: 0.889 ppbv
RT: 2.648 min Scan# 14
Delta R.T. -0.022 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

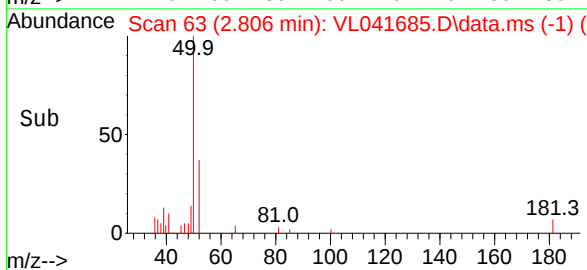
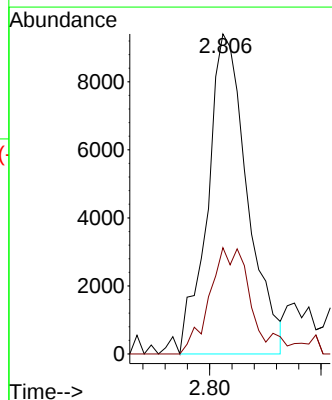
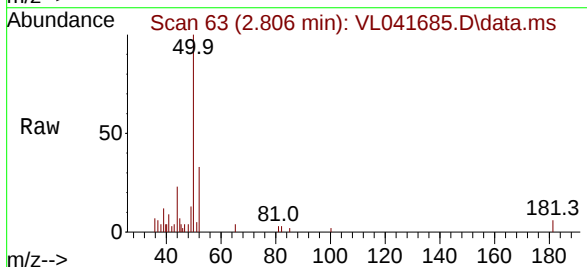
Instrument :
MSVOA_L
ClientSampleId :
SV1

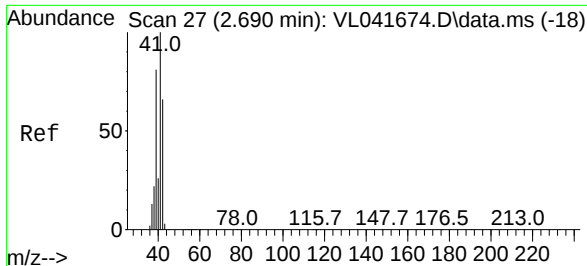
Tgt Ion: 51 Resp: 115534
Ion Ratio Lower Upper
51 100
67 4.2 13.9 20.9#



#4
Chloromethane
Concen: 0.169 ppbv
RT: 2.806 min Scan# 63
Delta R.T. -0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion: 50 Resp: 11659
Ion Ratio Lower Upper
50 100
52 33.2 24.9 37.3





#9

Propene

Concen: 2.231 ppbv

RT: 2.700 min Scan# 30

Delta R.T. 0.010 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

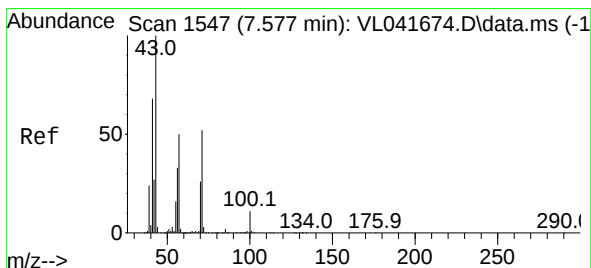
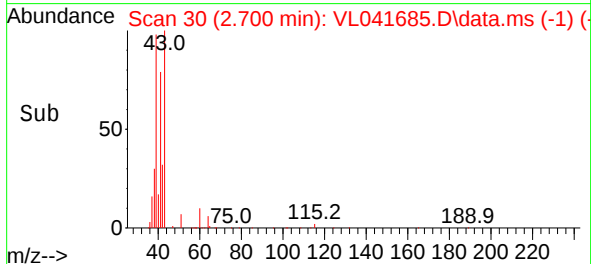
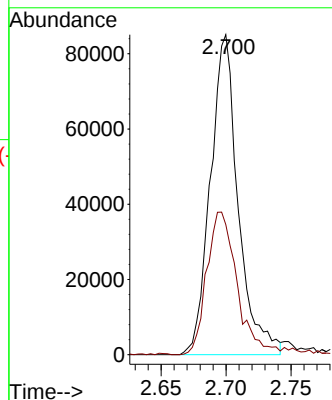
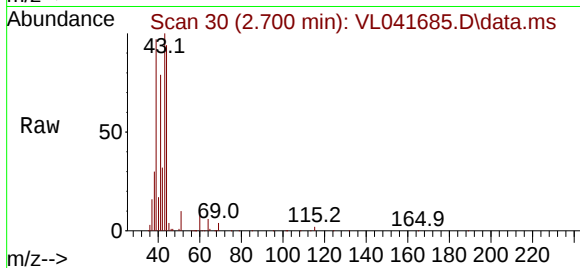
SV1

Tgt Ion: 41 Resp: 126368

Ion Ratio Lower Upper

41 100

42 50.7 55.0 82.4#



#10

Heptane

Concen: 0.327 ppbv

RT: 7.571 min Scan# 1545

Delta R.T. -0.006 min

Lab File: VL041685.D

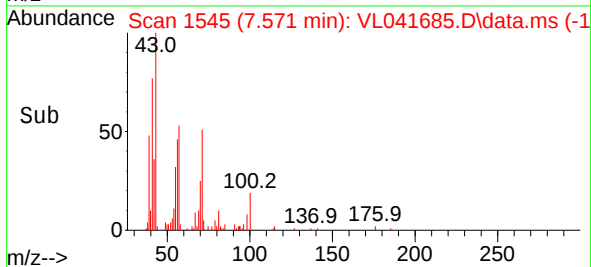
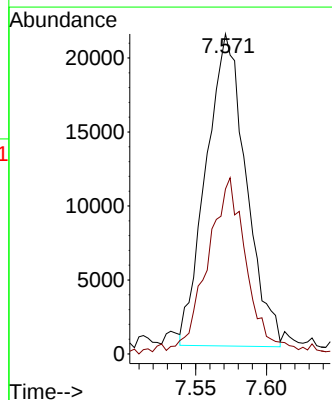
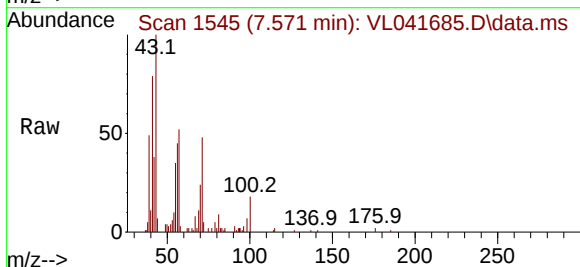
Acq: 7 Nov 2024 19:44

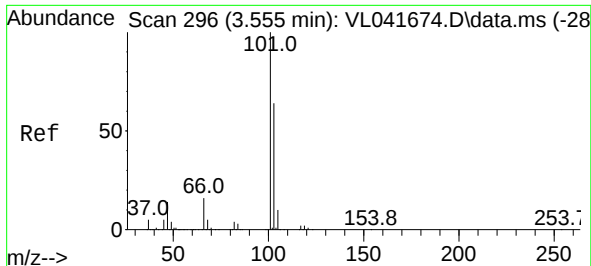
Tgt Ion: 43 Resp: 41446

Ion Ratio Lower Upper

43 100

57 57.9 40.0 60.0

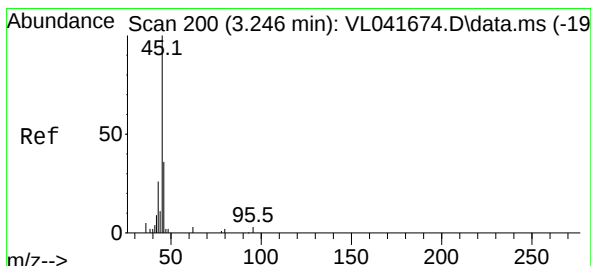
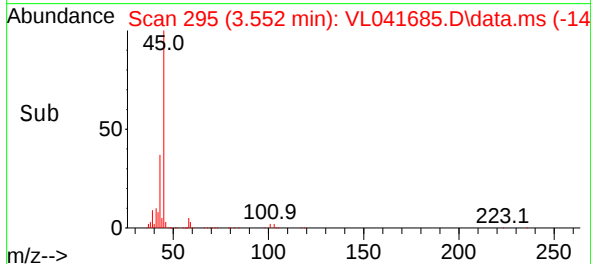
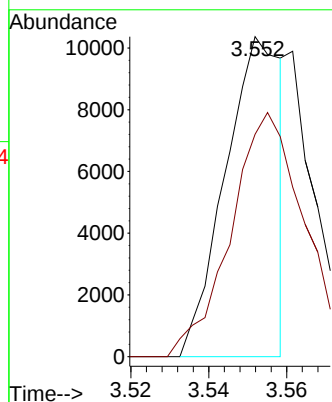
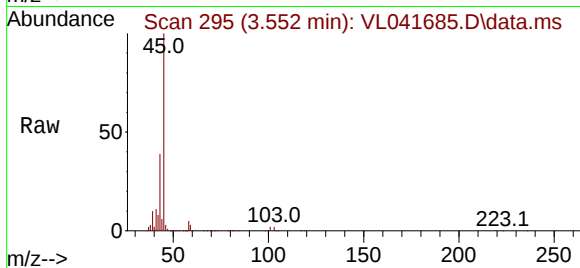




#11
 Trichlorofluoromethane
 Concen: 0.066 ppbv
 RT: 3.552 min Scan# 20
 Delta R.T. -0.003 min
 Lab File: VL041685.D
 Acq: 7 Nov 2024 19:44

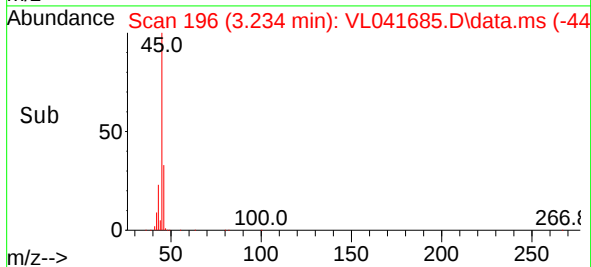
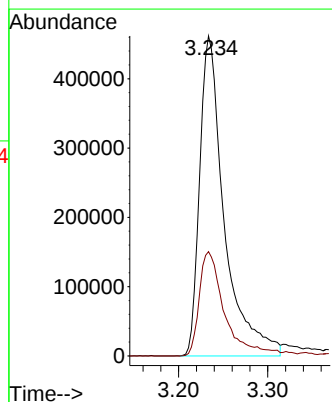
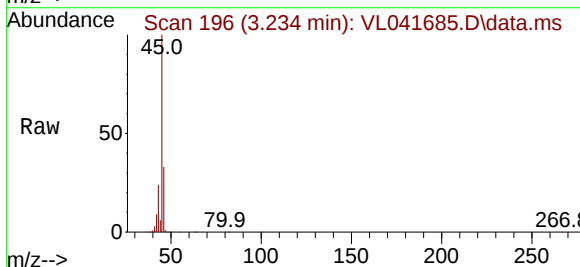
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

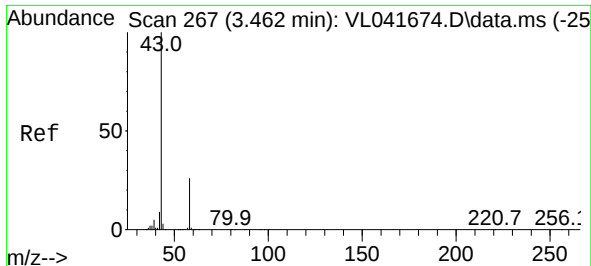
Tgt Ion:101 Resp: 10327
 Ion Ratio Lower Upper
 101 100
 103 65.4 51.0 76.6



#13
 Ethanol
 Concen: 255.724 ppbv
 RT: 3.234 min Scan# 196
 Delta R.T. -0.013 min
 Lab File: VL041685.D
 Acq: 7 Nov 2024 19:44

Tgt Ion: 45 Resp: 886981
 Ion Ratio Lower Upper
 45 100
 46 34.7 13.8 55.2

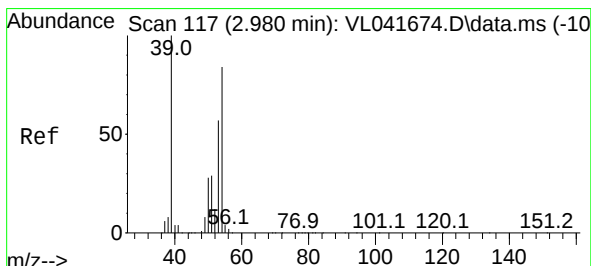
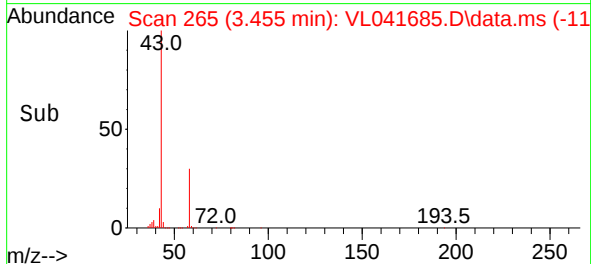
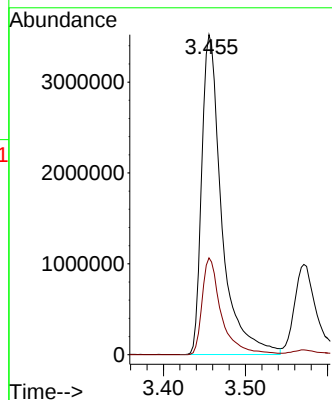
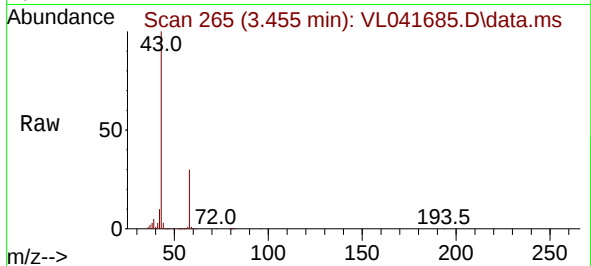




#15
Acetone
Concen: 48.581 ppbv
RT: 3.455 min Scan# 20
Delta R.T. -0.006 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

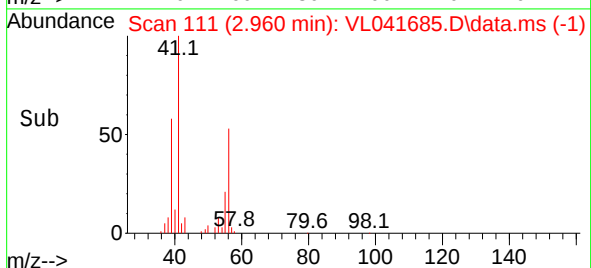
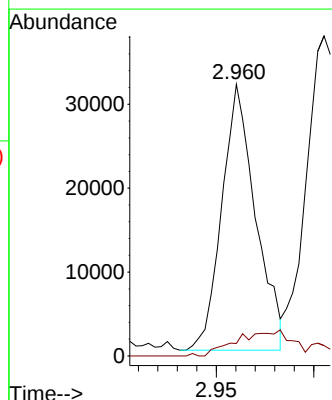
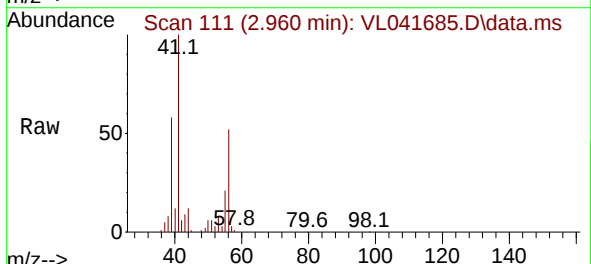
Instrument :
MSVOA_L
ClientSampleId :
SV1

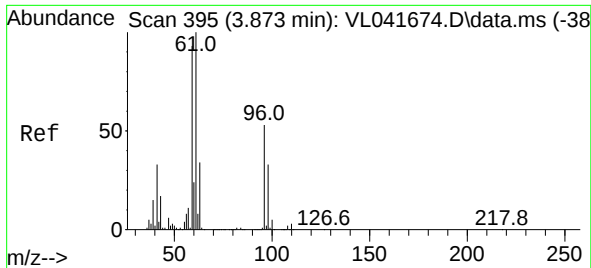
Tgt Ion: 43 Resp: 5965604
Ion Ratio Lower Upper
43 100
58 29.0 21.4 32.0



#16
1,3-Butadiene
Concen: 0.616 ppbv
RT: 2.960 min Scan# 111
Delta R.T. -0.019 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion: 39 Resp: 38141
Ion Ratio Lower Upper
39 100
54 20.3 61.3 91.9#





#17

tert-Butyl alcohol

Concen: 2.519 ppbv

RT: 3.574 min Scan# 302

Delta R.T. -0.299 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

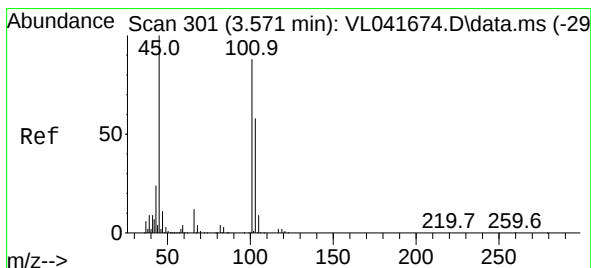
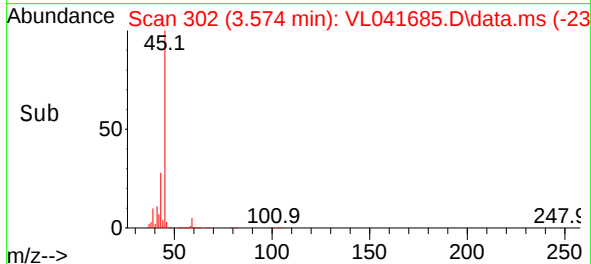
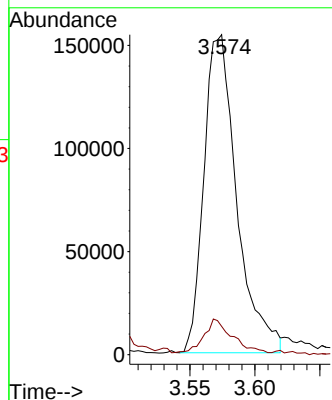
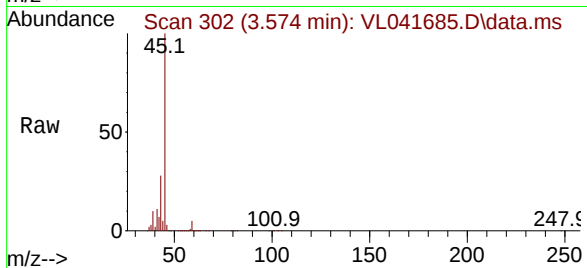
SV1

Tgt Ion: 59 Resp: 271446

Ion Ratio Lower Upper

59 100

57 11.2 8.5 12.7



#19

Isopropyl Alcohol

Concen: 119.897 ppbv

RT: 3.571 min Scan# 301

Delta R.T. 0.000 min

Lab File: VL041685.D

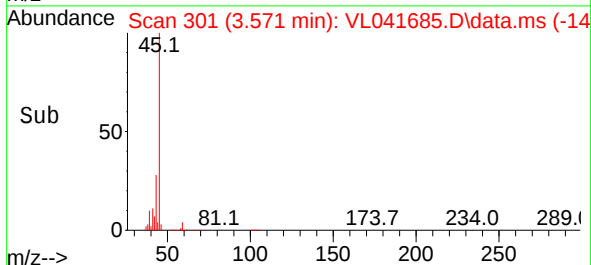
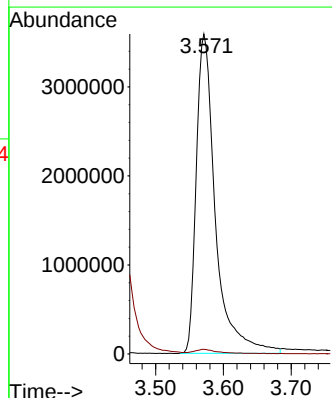
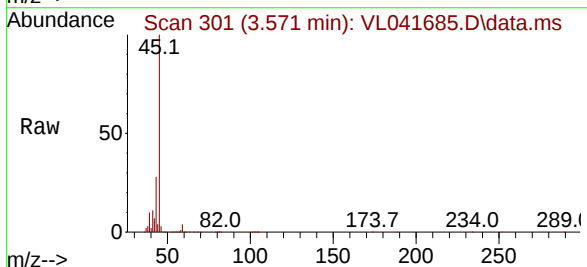
Acq: 7 Nov 2024 19:44

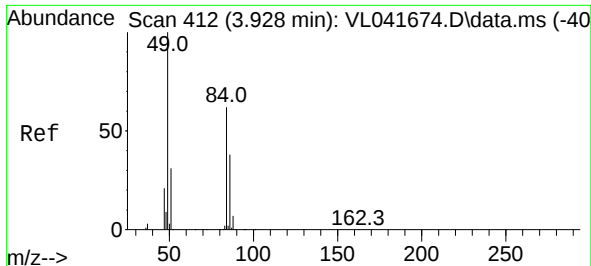
Tgt Ion: 45 Resp: 7037090

Ion Ratio Lower Upper

45 100

58 2.2 2.5 3.7#





#20

Methylene Chloride

Concen: 0.310 ppbv

RT: 3.928 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 84 Resp: 14015

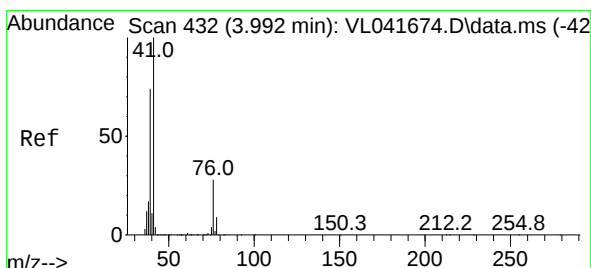
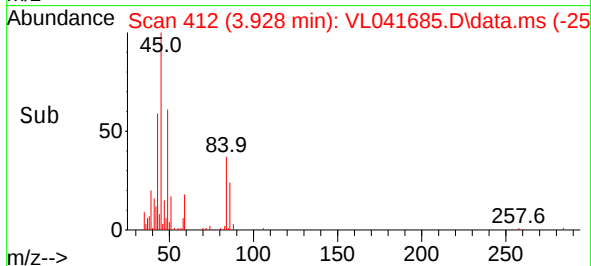
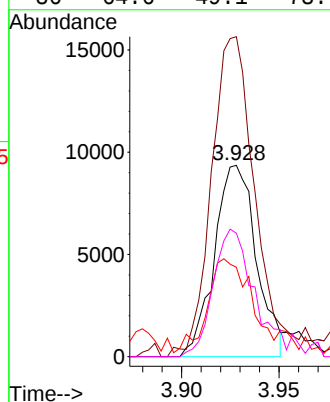
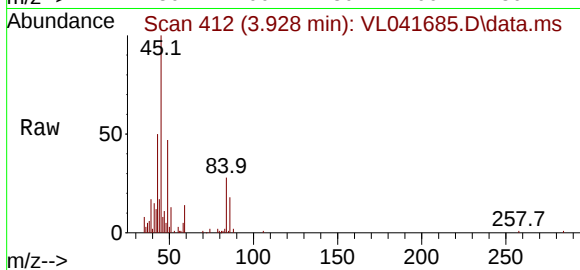
Ion Ratio Lower Upper

84 100

49 163.1 129.7 194.5

51 42.3 39.8 59.6

86 64.6 49.1 73.7



#21

Allyl Chloride

Concen: 0.436 ppbv

RT: 3.880 min Scan# 397

Delta R.T. -0.113 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

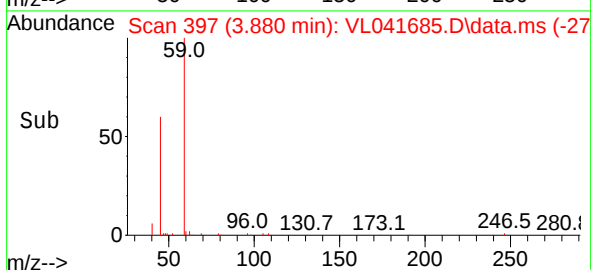
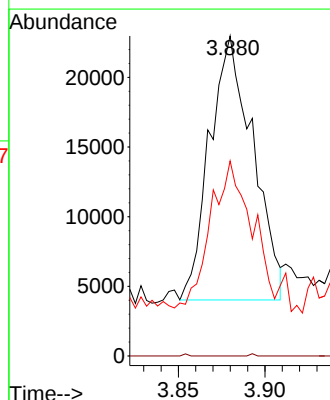
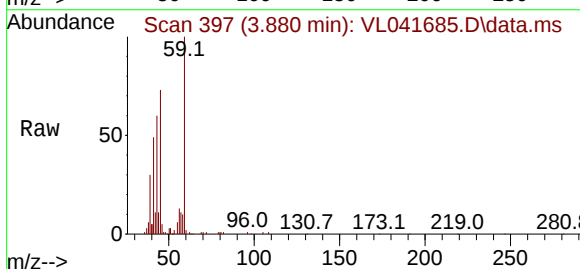
Tgt Ion: 41 Resp: 33048

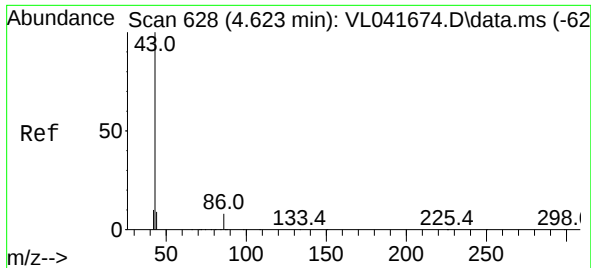
Ion Ratio Lower Upper

41 100

76 0.0 23.5 35.3#

39 63.3 63.0 94.4

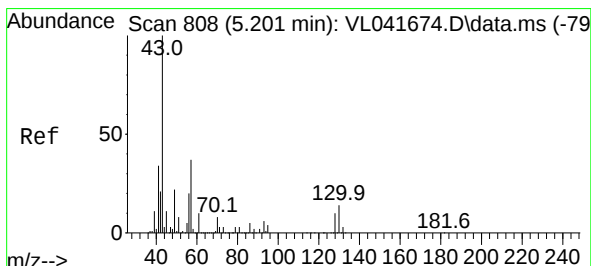
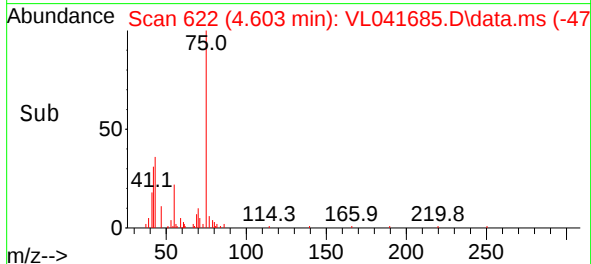
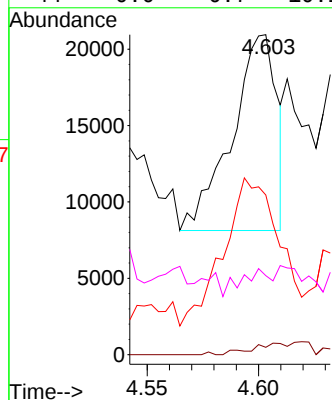
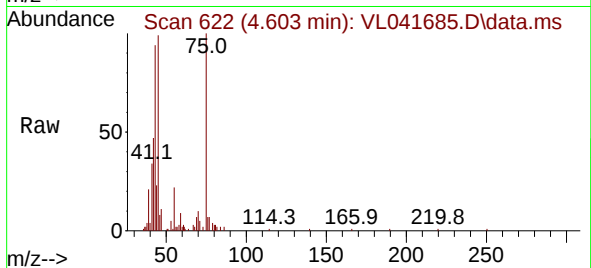




#23
 Vinyl Acetate
 Concen: 0.332 ppbv
 RT: 4.603 min Scan# 61
 Delta R.T. -0.019 min
 Lab File: VL041685.D
 Acq: 7 Nov 2024 19:44

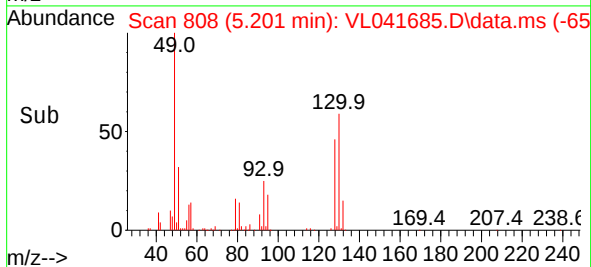
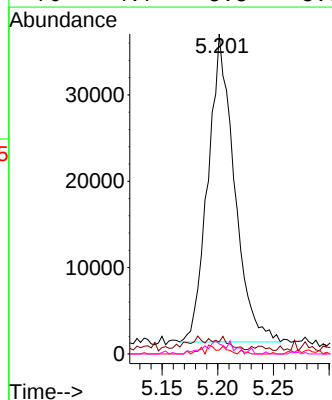
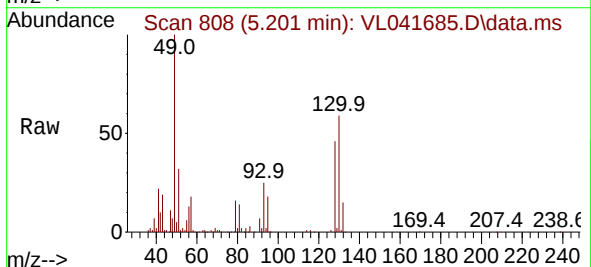
Instrument :
 MSVOA_1
 ClientSampleId :
 SV1

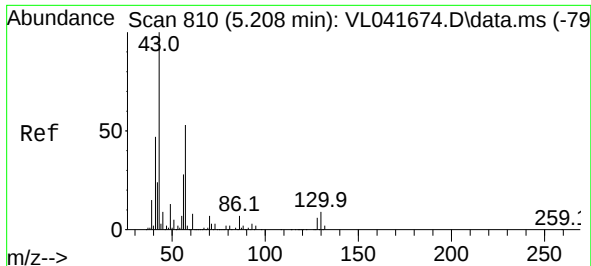
Tgt Ion: 43 Resp: 17989
 Ion Ratio Lower Upper
 43 100
 86 3.7 5.3 7.9#
 42 67.0 8.5 12.7#
 44 0.0 6.7 10.1#



#25
 Ethyl Acetate
 Concen: 0.231 ppbv
 RT: 5.201 min Scan# 808
 Delta R.T. 0.000 min
 Lab File: VL041685.D
 Acq: 7 Nov 2024 19:44

Tgt Ion: 43 Resp: 58816
 Ion Ratio Lower Upper
 43 100
 45 6.7 8.6 13.0#
 61 2.4 8.4 12.6#
 70 4.7 5.8 8.6#





#26

Hexane

Concen: 0.677 ppbv

RT: 5.208 min Scan# 810

Delta R.T. 0.000 min

Lab File: VL041685.D

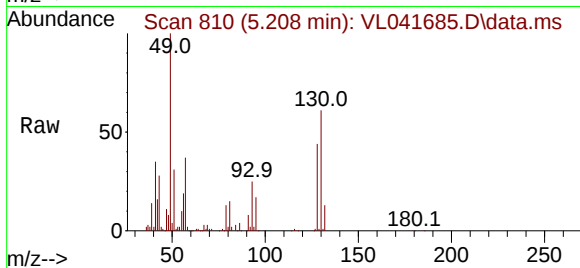
Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

SV1



Tgt Ion: 57 Resp: 66127

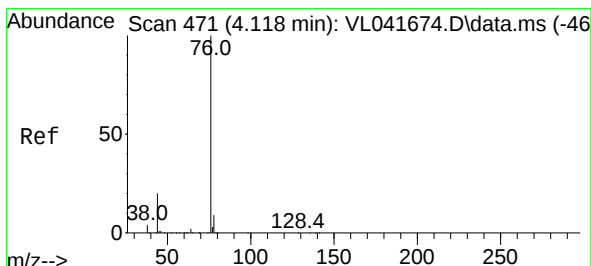
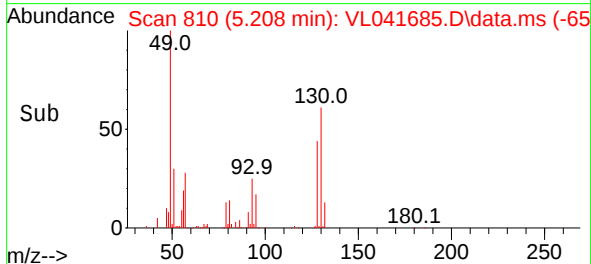
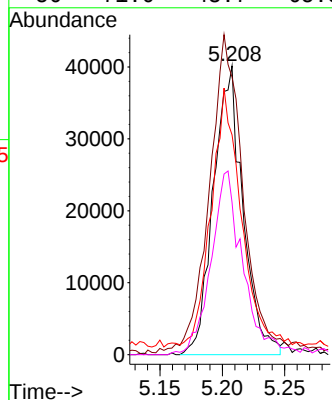
Ion Ratio Lower Upper

57 100

41 126.2 76.1 114.1#

43 108.9 207.0 310.6#

56 71.0 43.7 65.5#



#27

Carbon Disulfide

Concen: 0.165 ppbv

RT: 4.121 min Scan# 472

Delta R.T. 0.003 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

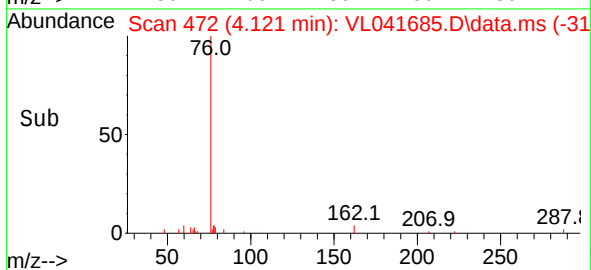
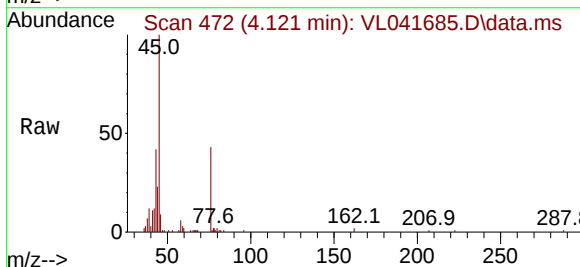
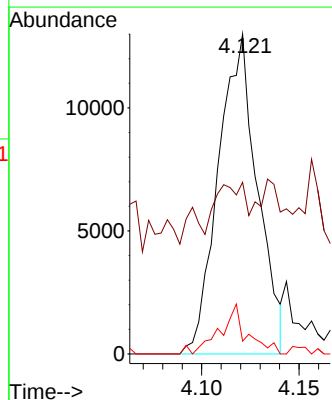
Tgt Ion: 76 Resp: 18119

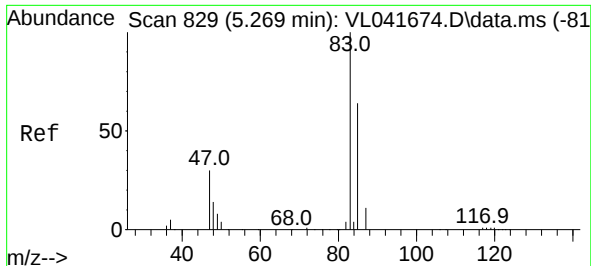
Ion Ratio Lower Upper

76 100

44 32.8 15.8 23.8#

78 11.9 7.5 11.3#





#29

Chloroform

Concen: 0.044 ppbv

RT: 5.269 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

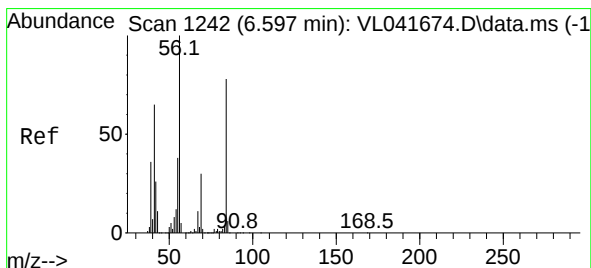
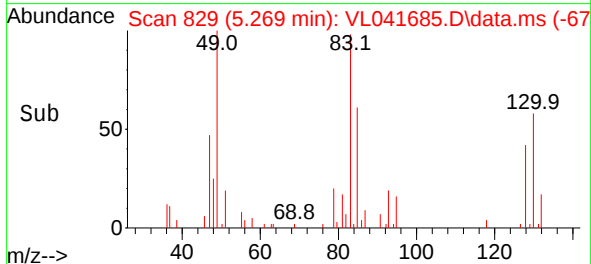
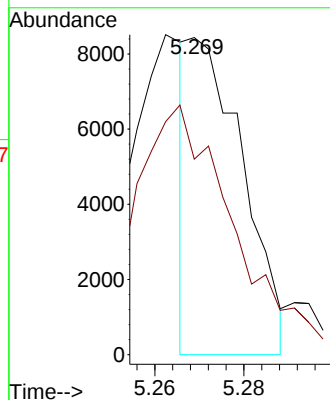
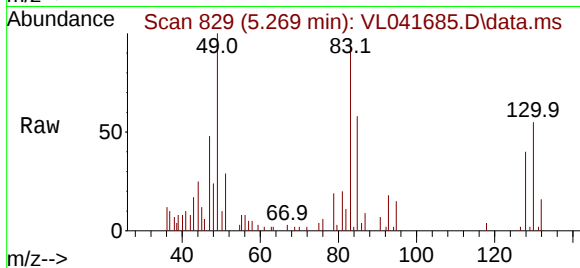
SV1

Tgt Ion: 83 Resp: 7148

Ion Ratio Lower Upper

83 100

85 55.7 51.1 76.7



#30

Cyclohexane

Concen: 0.066 ppbv

RT: 6.597 min Scan# 1242

Delta R.T. 0.000 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

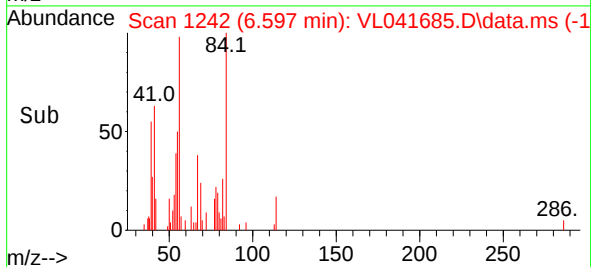
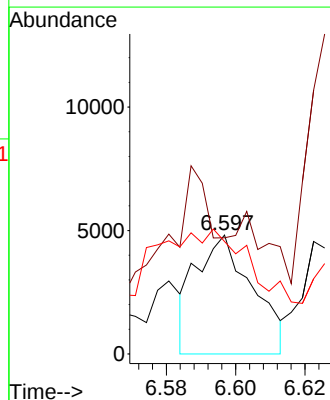
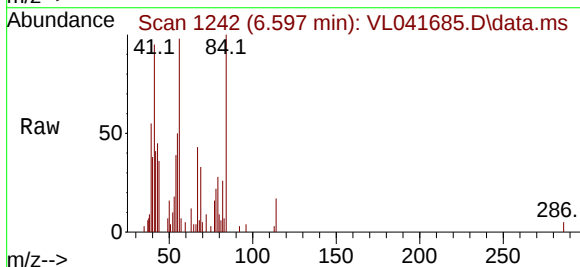
Tgt Ion: 84 Resp: 5461

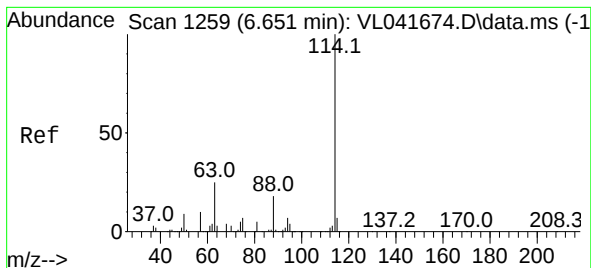
Ion Ratio Lower Upper

84 100

56 0.0 110.8 166.2#

41 244.8 70.0 105.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

SV1

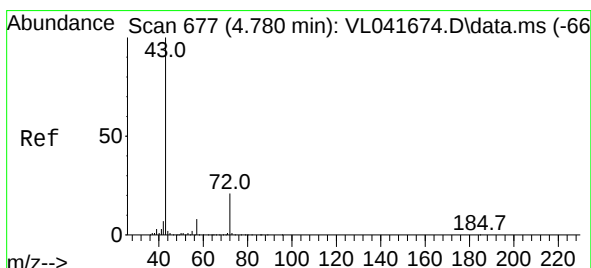
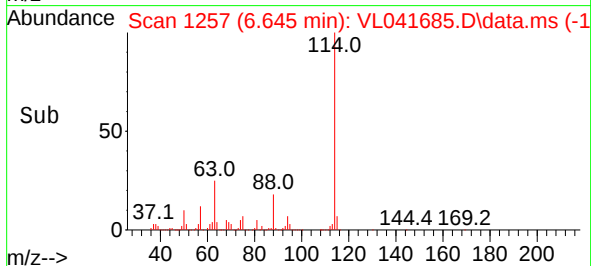
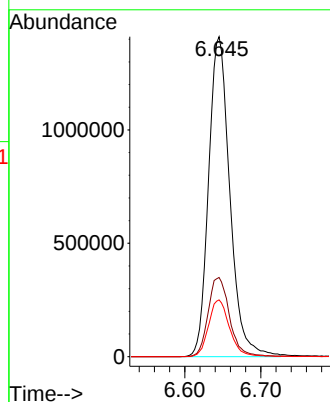
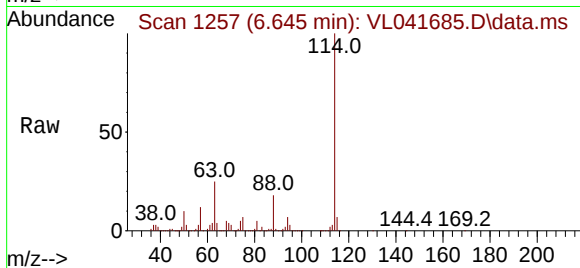
Tgt Ion:114 Resp: 2739725

Ion Ratio Lower Upper

114 100

63 25.2 20.3 30.5

88 17.7 14.2 21.4



#34

2-Butanone

Concen: 3.154 ppbv

RT: 4.780 min Scan# 677

Delta R.T. 0.000 min

Lab File: VL041685.D

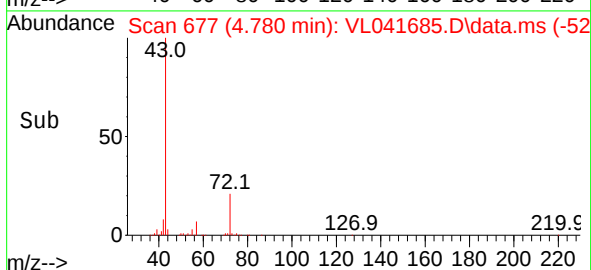
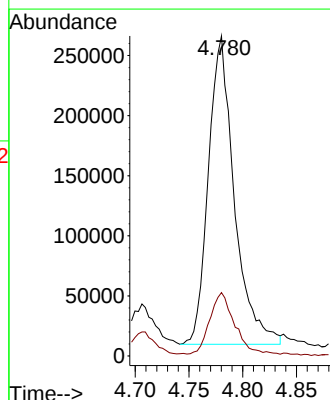
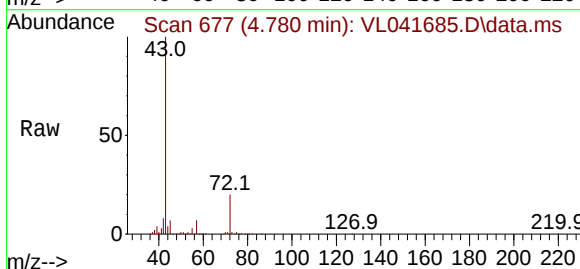
Acq: 7 Nov 2024 19:44

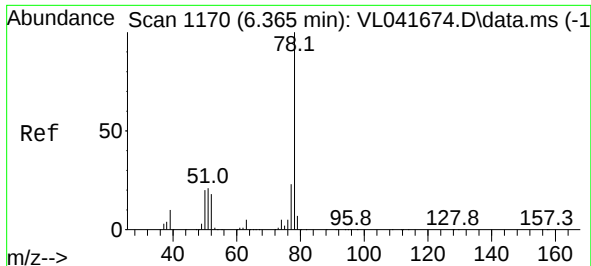
Tgt Ion: 43 Resp: 430285

Ion Ratio Lower Upper

43 100

72 21.3 17.4 26.0

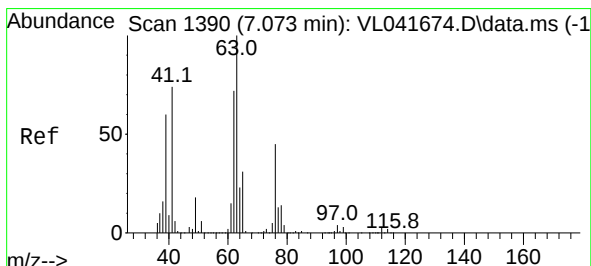
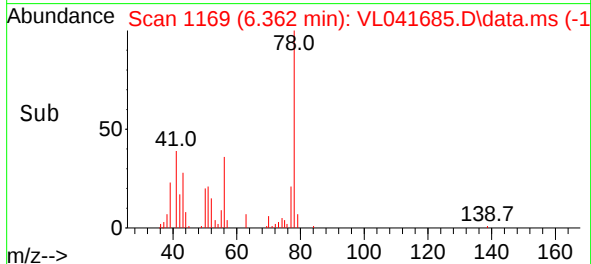
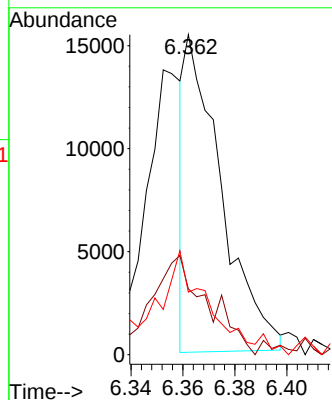
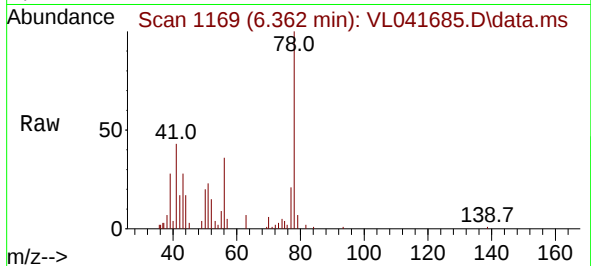




#36
Benzene
Concen: 0.074 ppbv
RT: 6.362 min Scan# 1170
Delta R.T. -0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

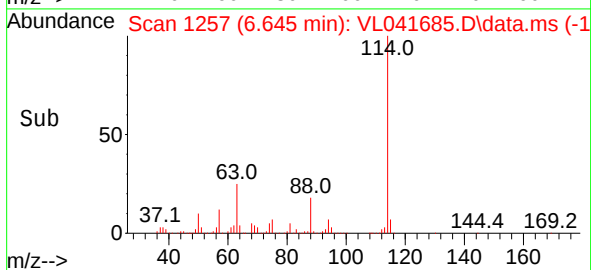
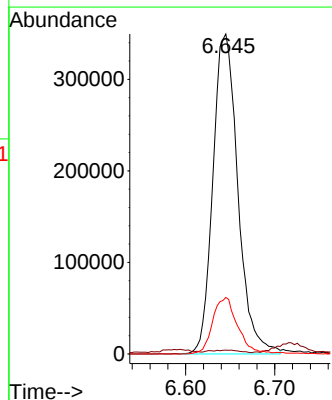
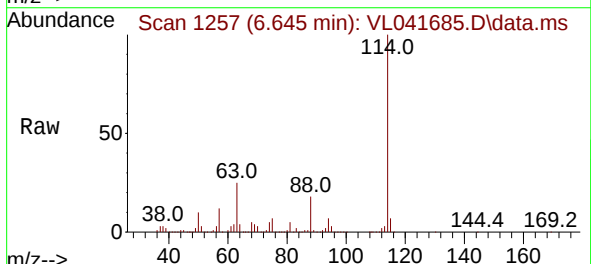
Instrument :
MSVOA_L
ClientSampleId :
SV1

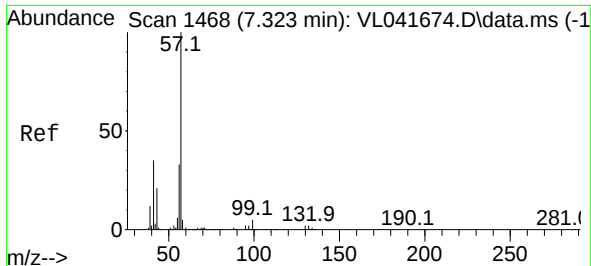
Tgt Ion: 78 Resp: 14968
Ion Ratio Lower Upper
78 100
77 19.1 18.5 27.7
50 18.3 15.6 23.4



#39
1,2-Dichloropropane
Concen: 8.490 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.428 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion: 63 Resp: 681068
Ion Ratio Lower Upper
63 100
41 0.0 59.1 88.7#
62 17.7 57.7 86.5#





#44

2,2,4-Trimethylpentane

Concen: 0.030 ppbv

RT: 7.320 min Scan# 1467

Delta R.T. -0.003 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_1

ClientSampleId :

SV1

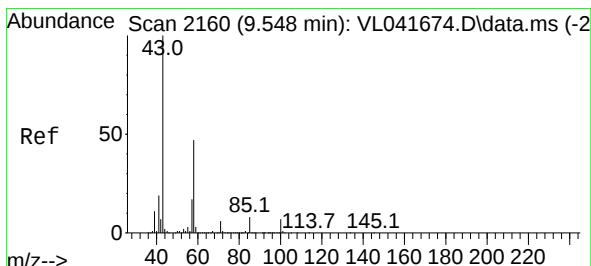
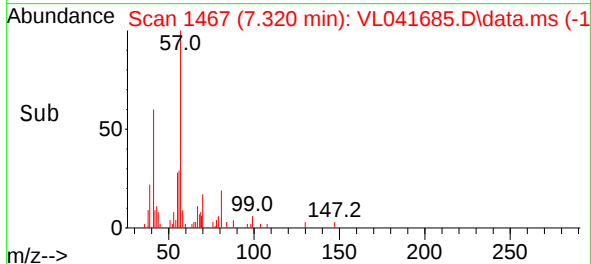
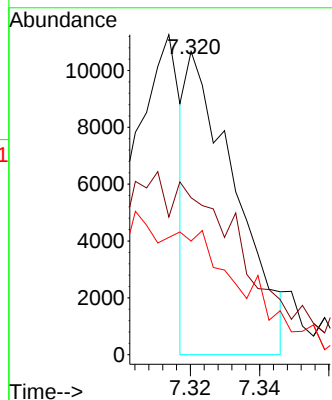
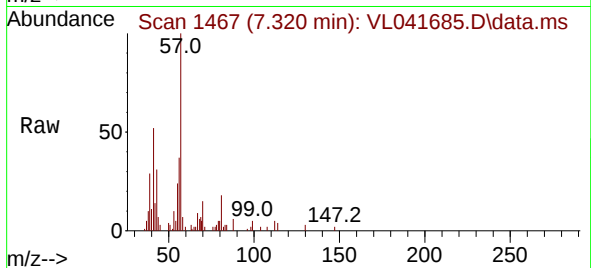
Tgt Ion: 57 Resp: 10420

Ion Ratio Lower Upper

57 100

41 0.0 27.0 40.6#

56 0.0 25.8 38.6#



#51

2-Hexanone

Concen: 0.372 ppbv

RT: 9.548 min Scan# 2160

Delta R.T. 0.000 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

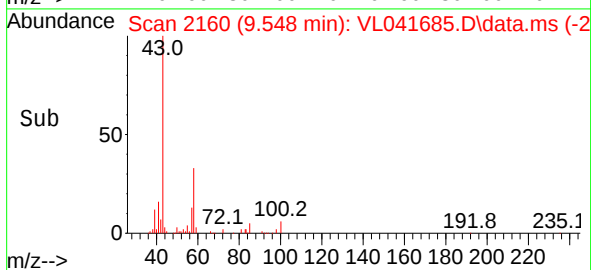
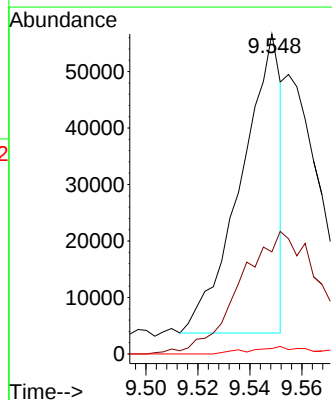
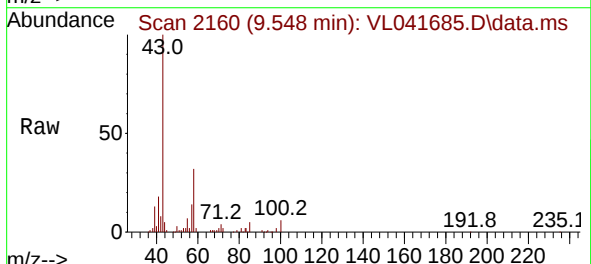
Tgt Ion: 43 Resp: 56689

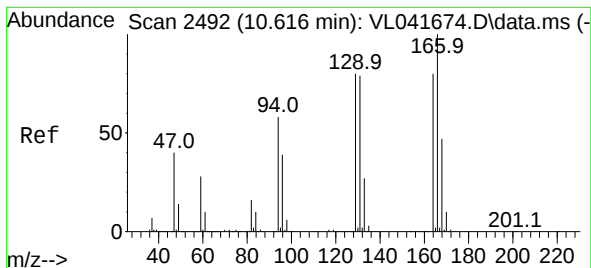
Ion Ratio Lower Upper

43 100

58 0.0 37.0 55.6#

98 0.0 0.6 0.8#





#52

Tetrachloroethene

Concen: 0.077 ppbv

RT: 10.603 min Scan# 2488

Delta R.T. -0.013 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:164 Resp: 5361

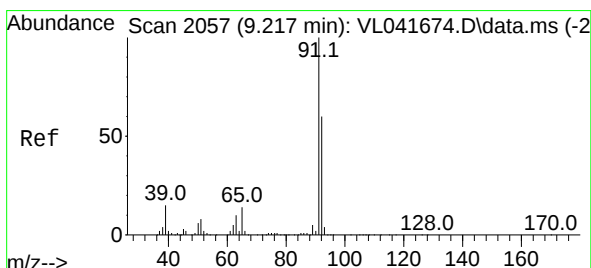
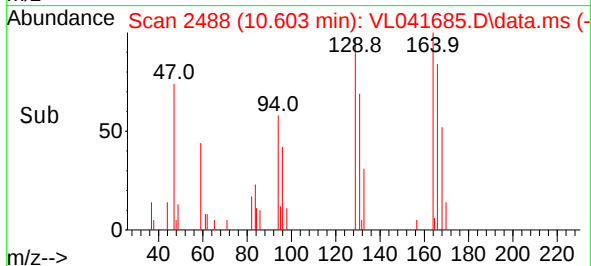
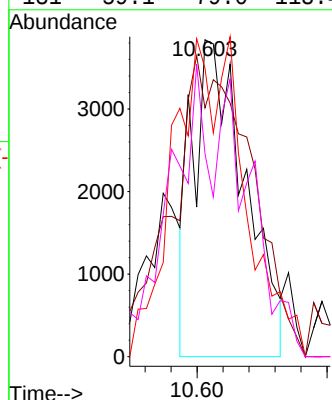
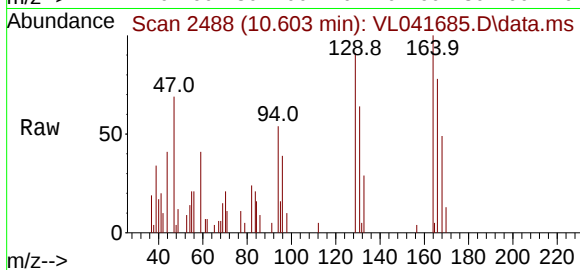
Ion Ratio Lower Upper

164 100

166 67.8 100.2 150.4#

129 80.9 79.7 119.5

131 59.1 79.0 118.4#



#53

Toluene

Concen: 0.749 ppbv

RT: 9.214 min Scan# 2056

Delta R.T. -0.003 min

Lab File: VL041685.D

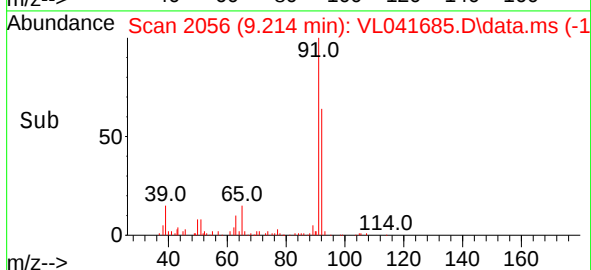
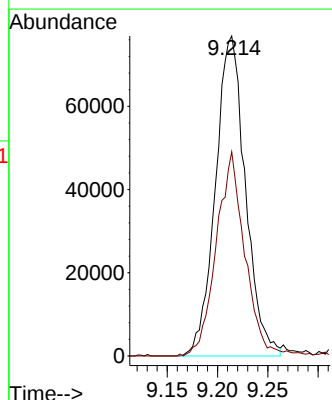
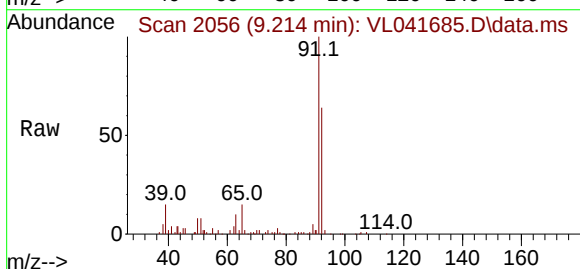
Acq: 7 Nov 2024 19:44

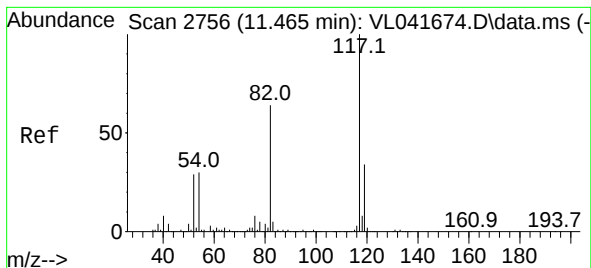
Tgt Ion: 91 Resp: 159882

Ion Ratio Lower Upper

91 100

92 60.9 49.0 73.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 21

Delta R.T. -0.010 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

SV1

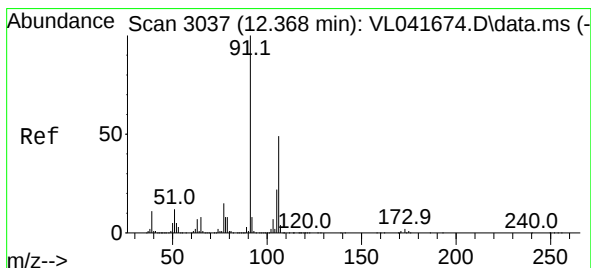
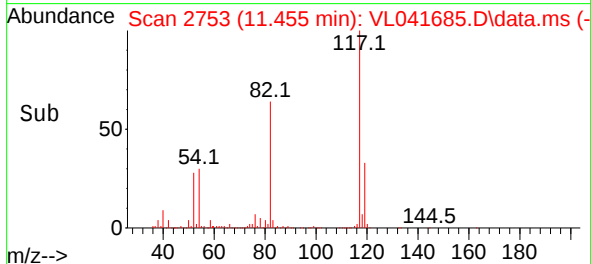
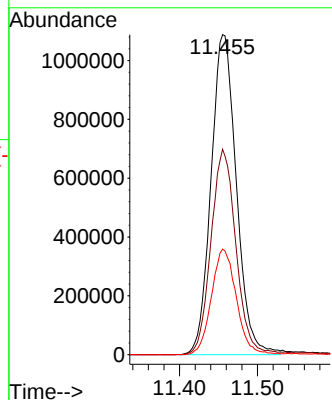
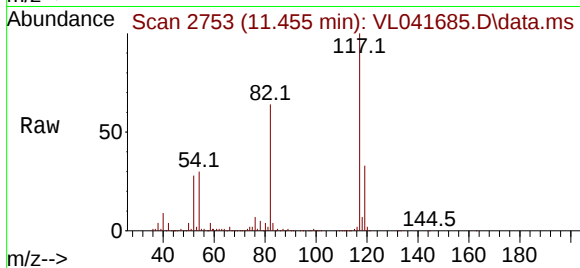
Tgt Ion:117 Resp: 2460095

Ion Ratio Lower Upper

117 100

82 64.1 49.8 74.8

119 33.0 24.2 36.4



#59

m/p-Xylene

Concen: 0.031 ppbv

RT: 12.365 min Scan# 3036

Delta R.T. -0.003 min

Lab File: VL041685.D

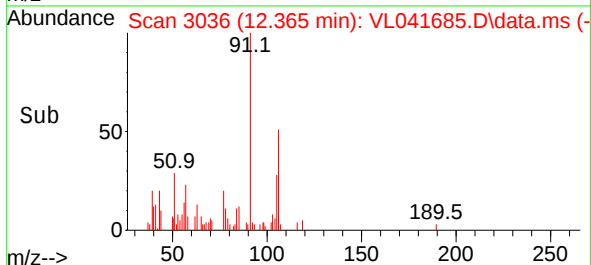
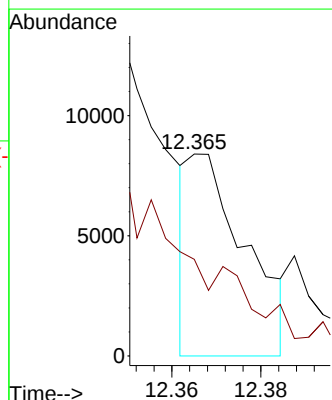
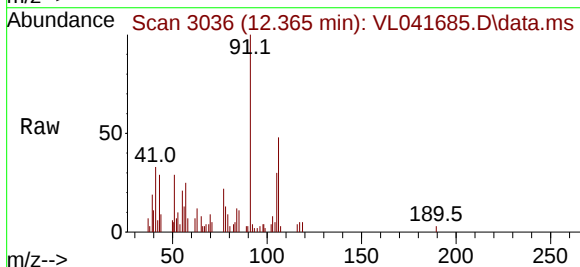
Acq: 7 Nov 2024 19:44

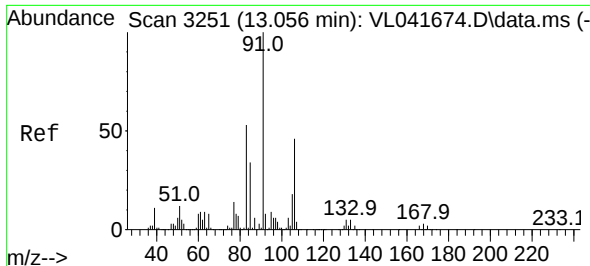
Tgt Ion: 91 Resp: 7435

Ion Ratio Lower Upper

91 100

106 0.0 36.9 55.3#

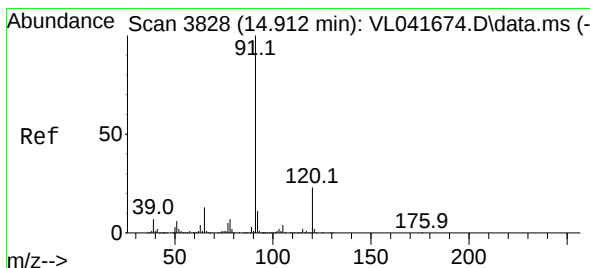
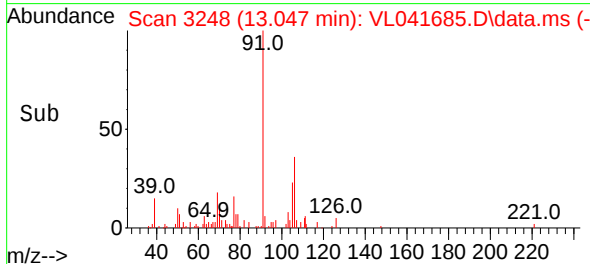
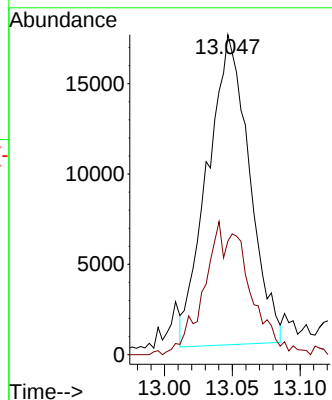
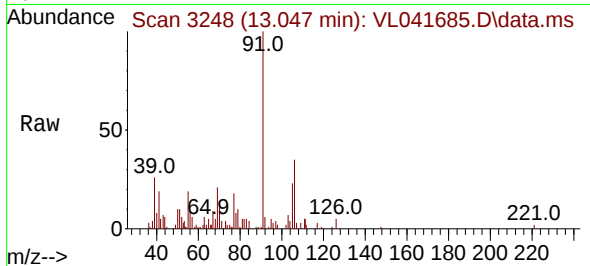




#60
o-Xylene
Concen: 0.161 ppbv
RT: 13.047 min Scan# 31
Delta R.T. -0.010 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

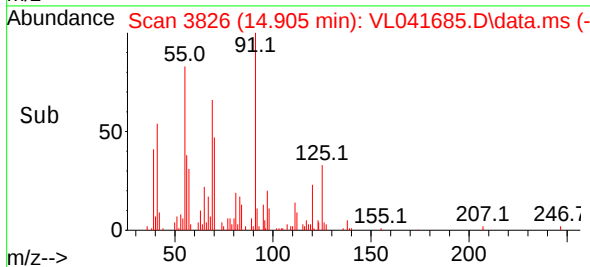
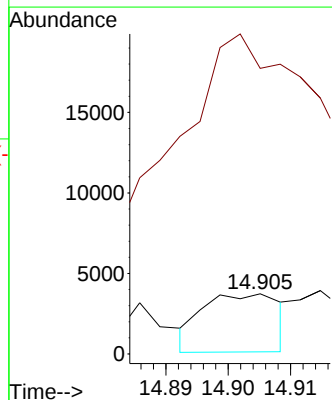
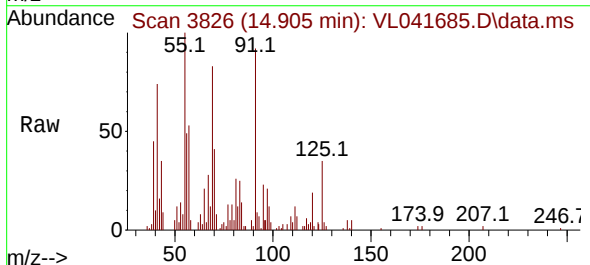
Instrument :
MSVOA_L
ClientSampleId :
SV1

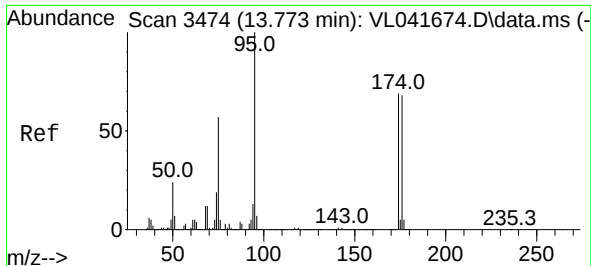
Tgt Ion: 91 Resp: 36974
Ion Ratio Lower Upper
91 100
106 47.4 23.2 69.6



#64
n-propylbenzene
Concen: 0.034 ppbv
RT: 14.905 min Scan# 3826
Delta R.T. -0.006 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion:120 Resp: 3123
Ion Ratio Lower Upper
120 100
91 1392.4 362.4 543.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.028 ppbv

RT: 13.767 min Scan# 3474

Delta R.T. -0.006 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

SV1

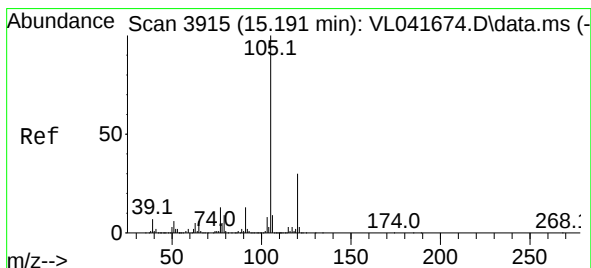
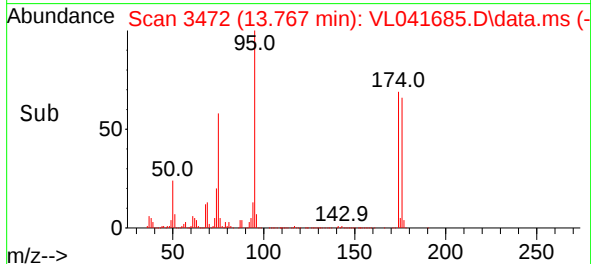
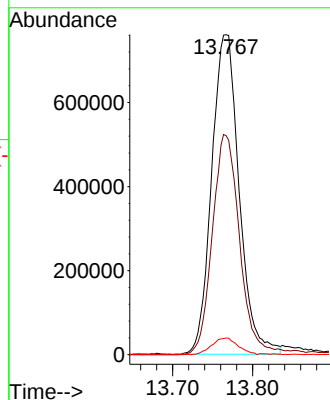
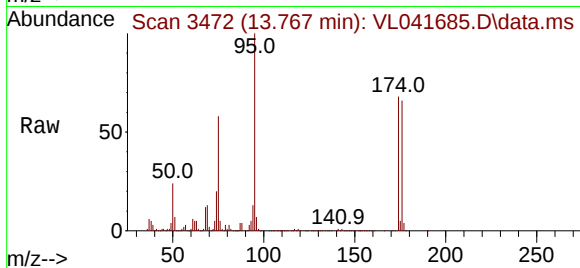
Tgt Ion: 95 Resp: 1817731

Ion Ratio Lower Upper

95 100

174 70.1 55.6 83.4

175 5.2 4.2 6.2



#72

4-Ethyltoluene

Concen: 0.053 ppbv

RT: 15.175 min Scan# 3910

Delta R.T. -0.016 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Tgt Ion:105 Resp: 14175

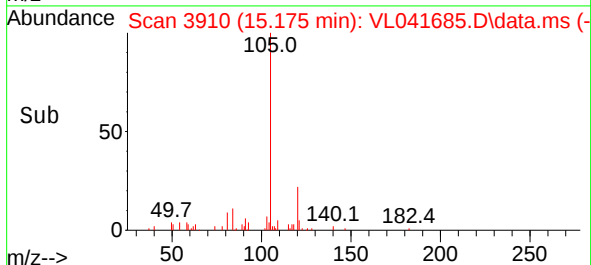
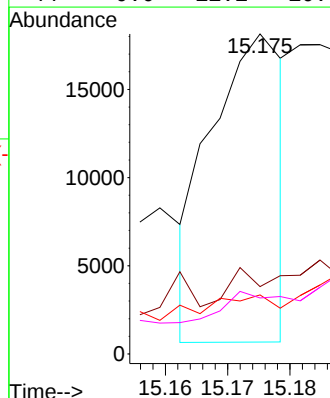
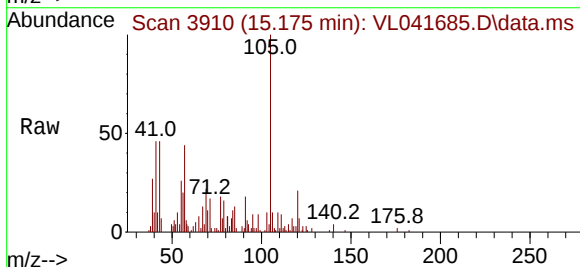
Ion Ratio Lower Upper

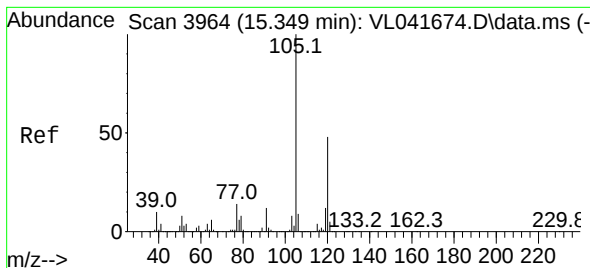
105 100

120 0.0 25.0 37.4#

91 0.0 10.6 15.8#

77 0.0 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.114 ppbv

RT: 15.342 min Scan# 3962

Delta R.T. -0.006 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

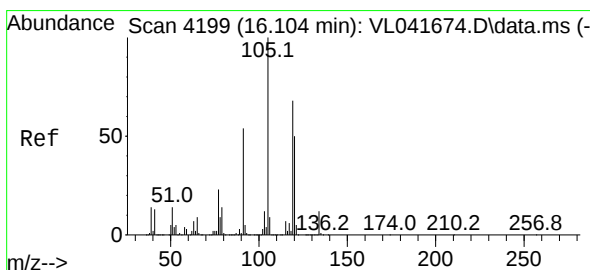
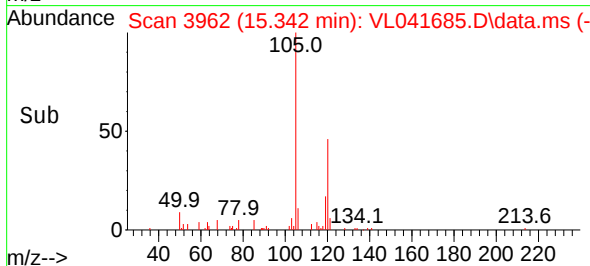
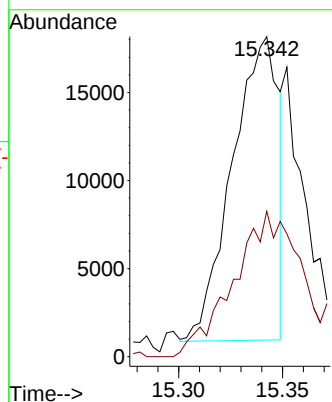
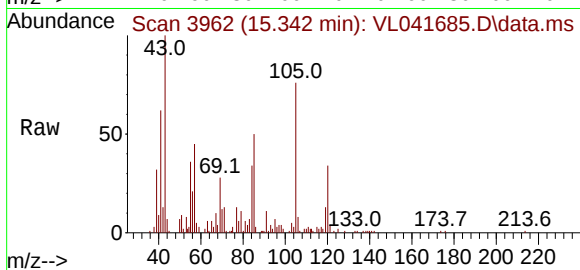
SV1

Tgt Ion:105 Resp: 26675

Ion Ratio Lower Upper

105 100

120 46.6 38.4 57.6



#74

1,2,4-Trimethylbenzene

Concen: 0.532 ppbv

RT: 16.095 min Scan# 4196

Delta R.T. -0.010 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Tgt Ion:105 Resp: 145310

Ion Ratio Lower Upper

105 100

120 44.4 39.8 59.8

91 14.2 43.2 64.8#

77 16.2 18.5 27.7#

