

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041806.D
 Acq On : 18 Dec 2024 22:06
 Operator : SY/MD
 Sample : P5292-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 19 08:00:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

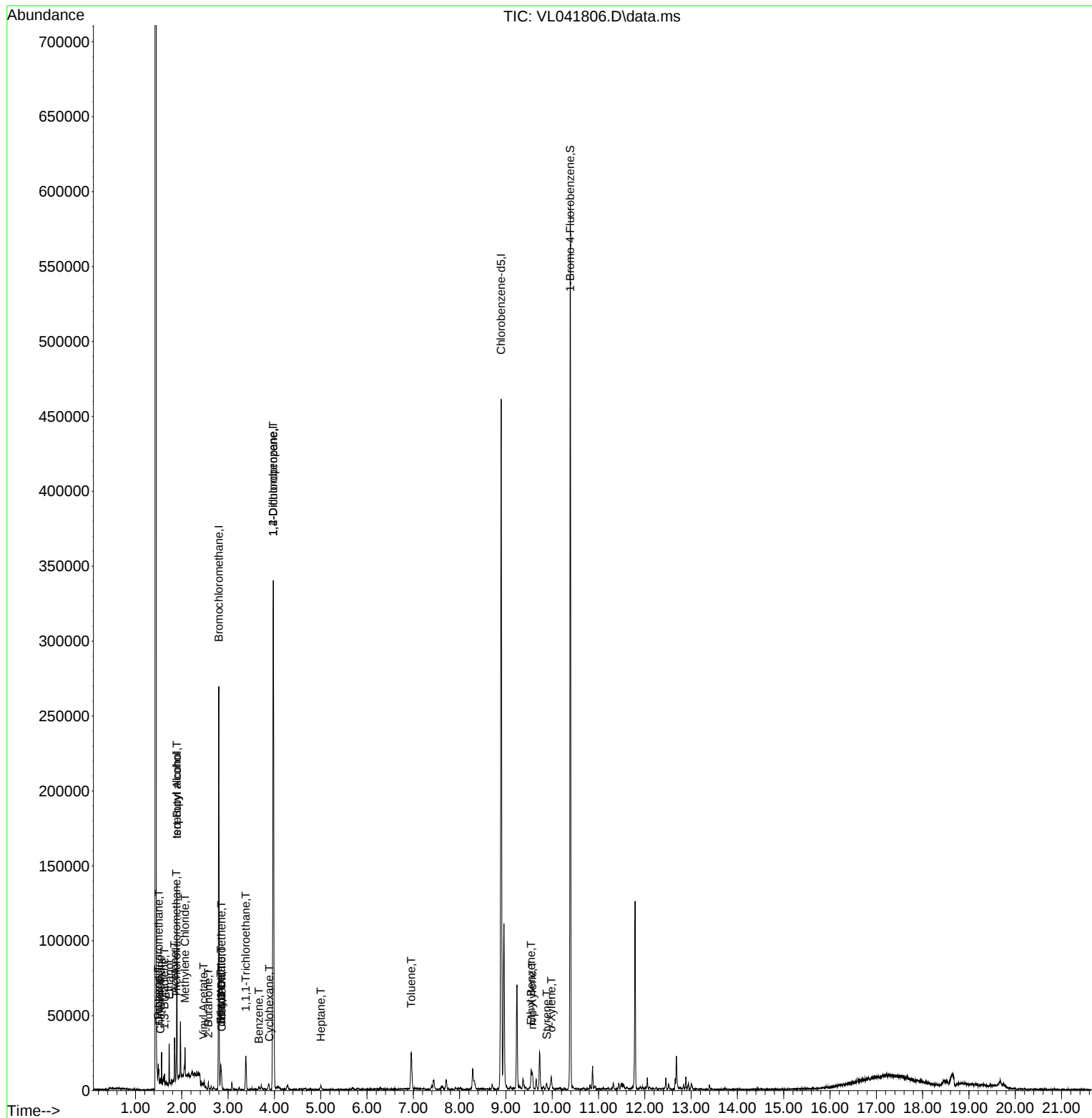
Internal Standards						
1) Bromochloromethane	2.800	49	72264	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.975	114	174871	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	162352	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	134435	9.937	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	2378	0.185	ppbv	97
4) Chloromethane	1.538	50	304	0.060	ppbv #	61
9) Propene	1.492	41	1211	0.237	ppbv	99
10) Heptane	5.004	43	422	0.032	ppbv #	1
11) Trichlorofluoromethane	1.884	101	3527	0.258	ppbv	99
13) Ethanol	1.729	45	9109	21.537	ppbv #	34
15) Acetone	1.842	43	12972	0.923	ppbv	98
16) 1,3-Butadiene	1.625	39	507	0.092	ppbv #	13
17) tert-Butyl alcohol	1.894	59	1657	0.119	ppbv	98
19) Isopropyl Alcohol	1.894	45	48517	5.751	ppbv #	38
20) Methylene Chloride	2.068	84	2394	0.597	ppbv #	92
23) Vinyl Acetate	2.470	43	603	0.092	ppbv #	13
25) Ethyl Acetate	2.848	43	6362	0.243	ppbv #	96
26) Hexane	2.842	57	2624	0.264	ppbv #	85
29) Chloroform	2.861	83	1784	0.118	ppbv	84
30) Cyclohexane	3.887	84	280	0.033	ppbv #	1
31) cis-1,2-Dichloroethene	2.855	61	609	0.059	ppbv #	26
32) 1,1,1-Trichloroethane	3.383	97	8367	0.544	ppbv	94
34) 2-Butanone	2.573	43	2587	0.184	ppbv	99
36) Benzene	3.667	78	622	0.034	ppbv #	69
39) 1,2-Dichloropropane	3.975	63	47969	7.332	ppbv #	18
53) Toluene	6.956	91	15703	0.766	ppbv	95
58) Ethyl Benzene	9.545	91	3621	0.124	ppbv	91
59) m/p-Xylene	9.568	91	2029	0.086	ppbv #	100
60) o-Xylene	9.979	91	1906	0.081	ppbv #	45
61) Styrene	9.885	104	988	0.097	ppbv	93

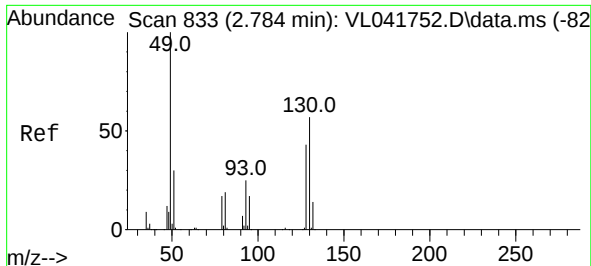
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.800 min Scan# 84

Delta R.T. 0.016 min

Lab File: VL041806.D

Acq: 18 Dec 2024 22:06

Instrument :

MSVOA_L

ClientSampleId :

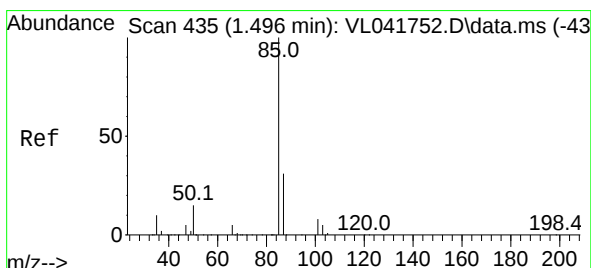
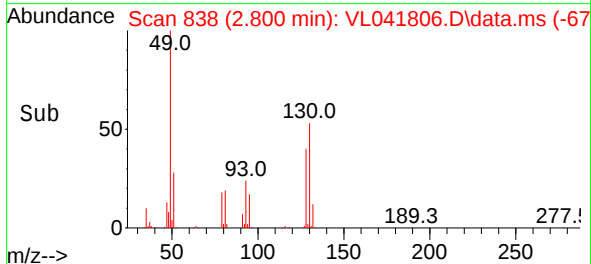
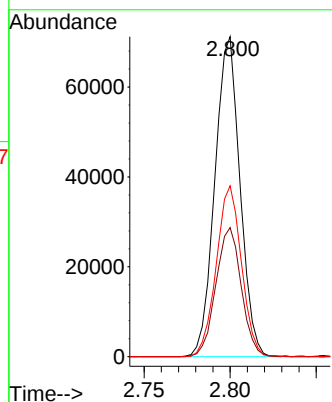
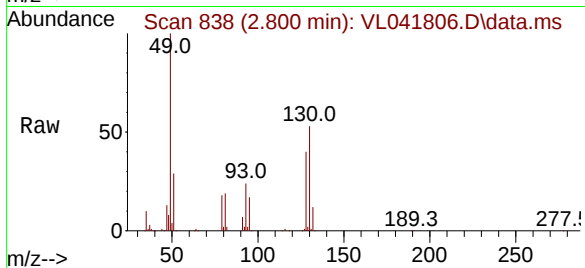
Tgt Ion: 49 Resp: 72264

Ion Ratio Lower Upper

49 100

128 40.8 21.6 64.6

130 53.4 28.3 85.0



#2

Dichlorodifluoromethane

Concen: 0.185 ppbv

RT: 1.502 min Scan# 437

Delta R.T. 0.006 min

Lab File: VL041806.D

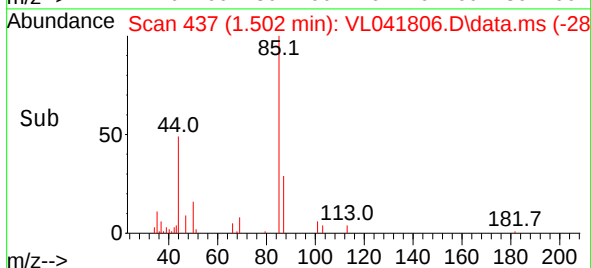
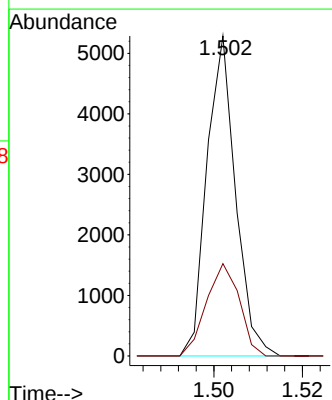
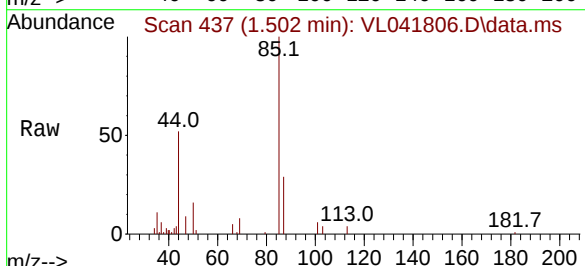
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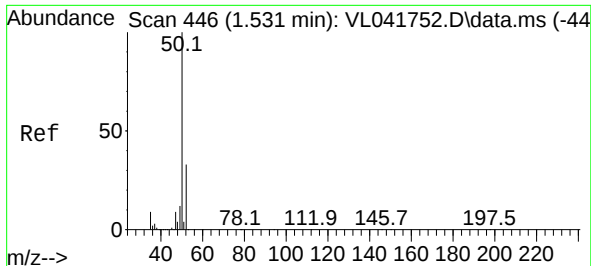
Tgt Ion: 85 Resp: 2378

Ion Ratio Lower Upper

85 100

87 28.9 24.5 36.7

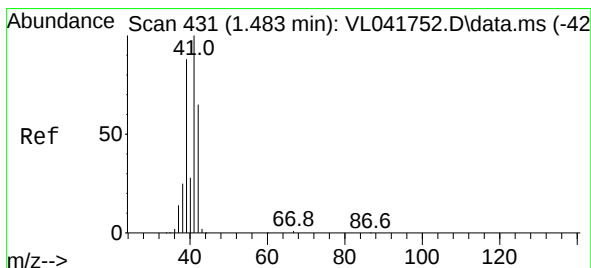
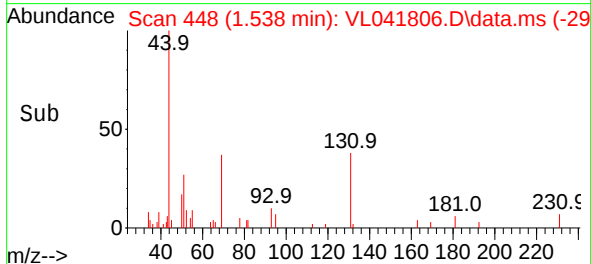
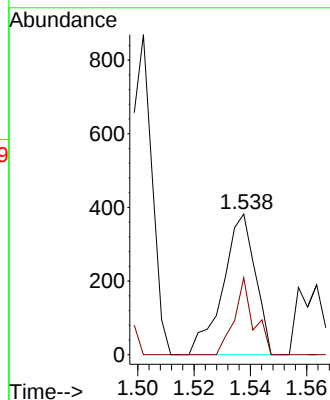
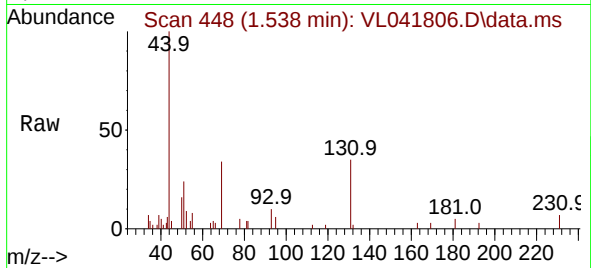




#4
Chloromethane
Concen: 0.060 ppbv
RT: 1.538 min Scan# 446
Delta R.T. 0.006 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

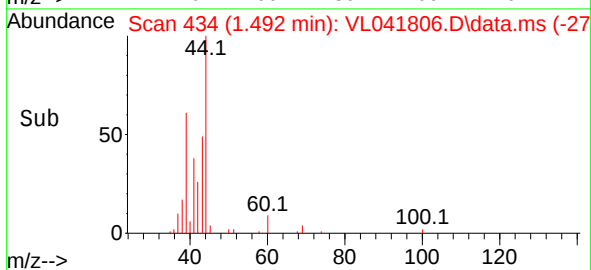
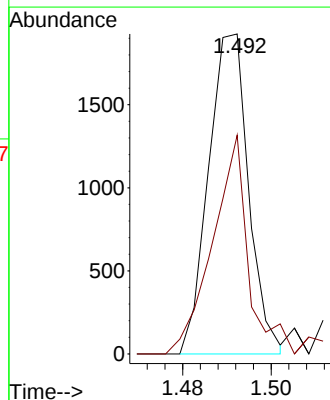
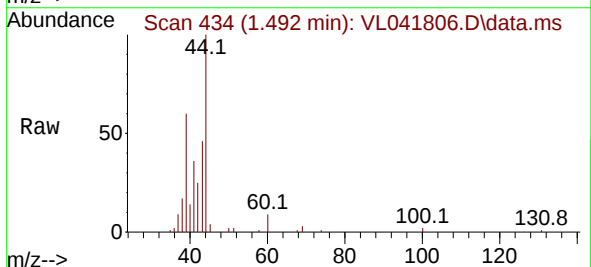
Instrument :
MSVOA_L
ClientSampleId :

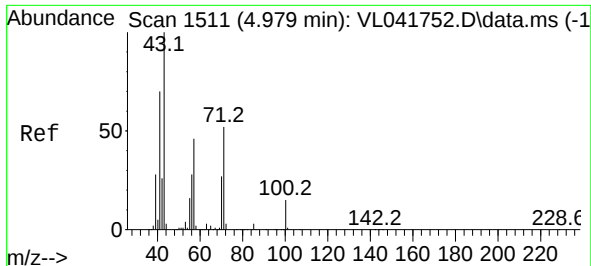
Tgt Ion: 50 Resp: 304
Ion Ratio Lower Upper
50 100
52 54.7 26.2 39.2#



#9
Propene
Concen: 0.237 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.009 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

Tgt Ion: 41 Resp: 1211
Ion Ratio Lower Upper
41 100
42 66.5 52.4 78.6





#10

Heptane

Concen: 0.032 ppbv

RT: 5.004 min Scan# 1

Delta R.T. 0.026 min

Lab File: VL041806.D

Acq: 18 Dec 2024 22:06

Instrument :

MSVOA_L

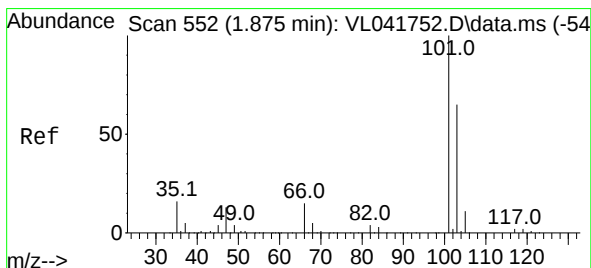
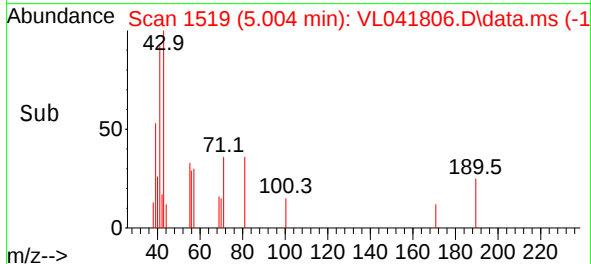
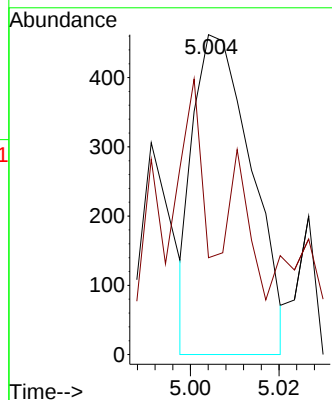
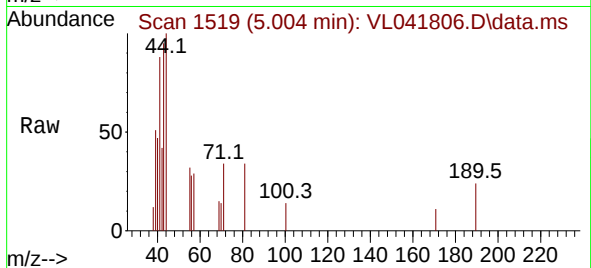
ClientSampleId :

Tgt Ion: 43 Resp: 422

Ion Ratio Lower Upper

43 100

57 117.8 38.5 57.7#



#11

Trichlorofluoromethane

Concen: 0.258 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.009 min

Lab File: VL041806.D

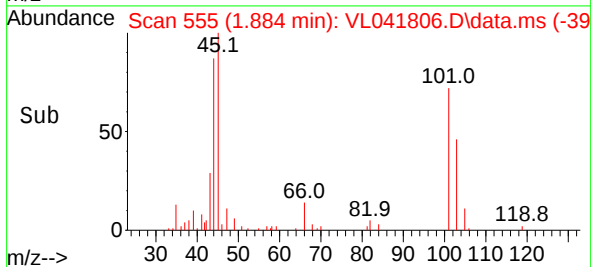
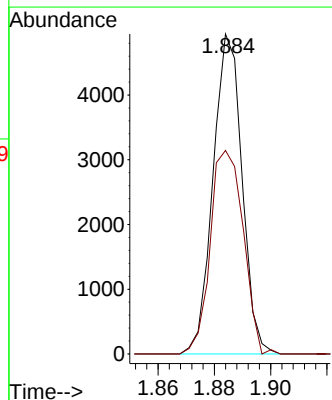
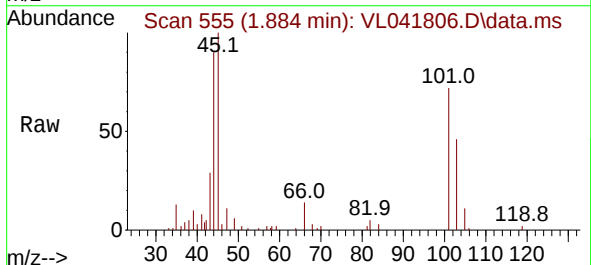
Acq: 18 Dec 2024 22:06

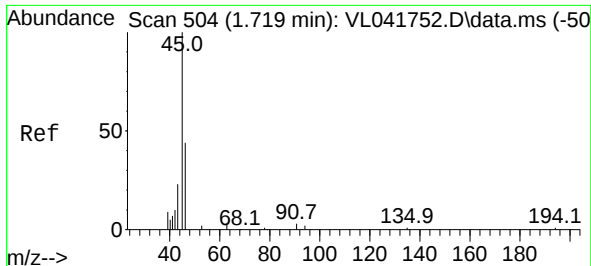
Tgt Ion:101 Resp: 3527

Ion Ratio Lower Upper

101 100

103 63.6 51.8 77.8

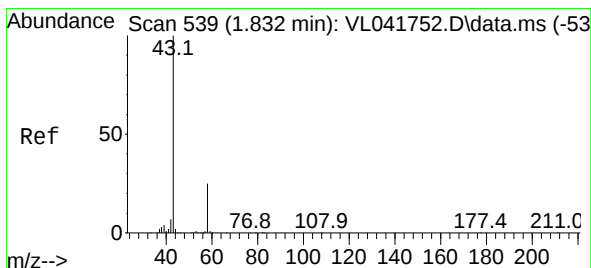
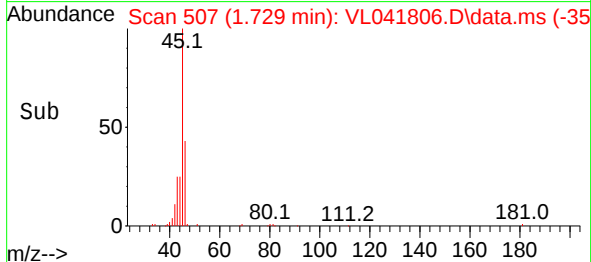
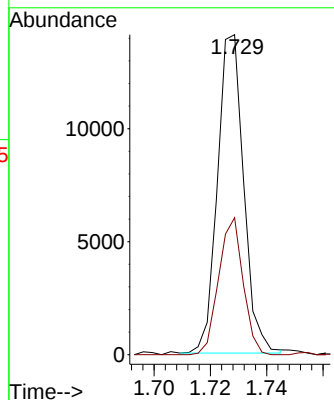
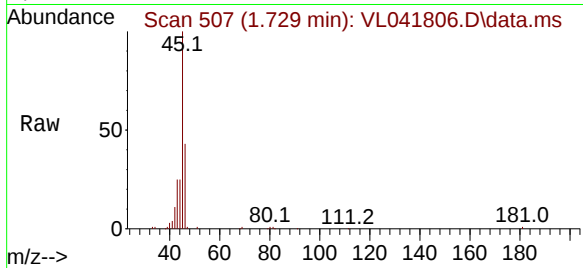




#13
Ethanol
Concen: 21.537 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.009 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

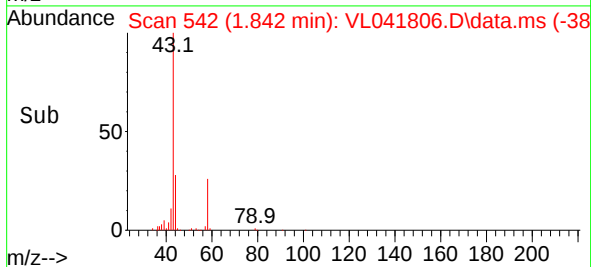
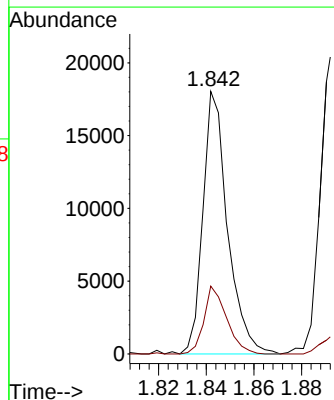
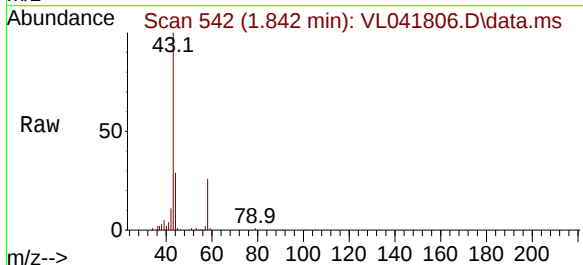
Instrument :
MSVOA_L
ClientSampleId :

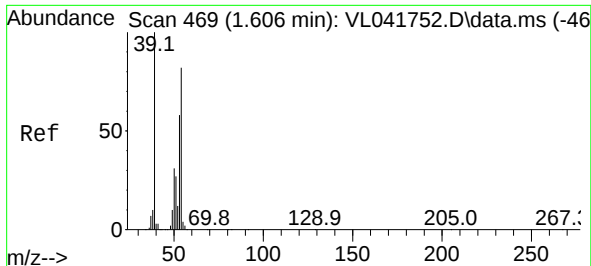
Tgt Ion: 45 Resp: 9109
Ion Ratio Lower Upper
45 100
46 0.0 16.4 65.8#



#15
Acetone
Concen: 0.923 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.009 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

Tgt Ion: 43 Resp: 12972
Ion Ratio Lower Upper
43 100
58 23.8 19.7 29.5

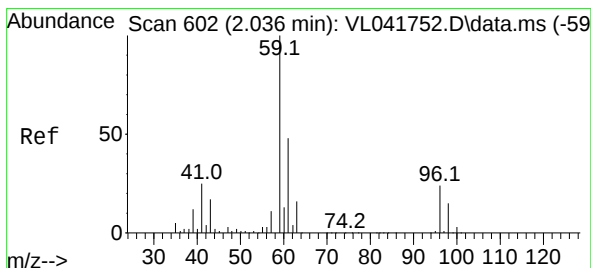
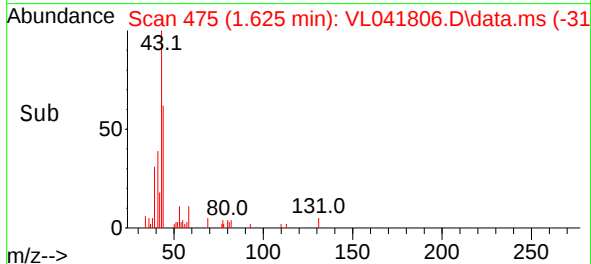
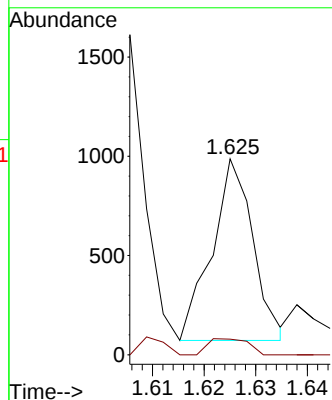
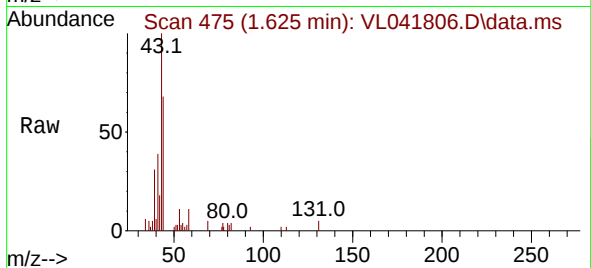




#16
1,3-Butadiene
Concen: 0.092 ppbv
RT: 1.625 min Scan# 41
Delta R.T. 0.019 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

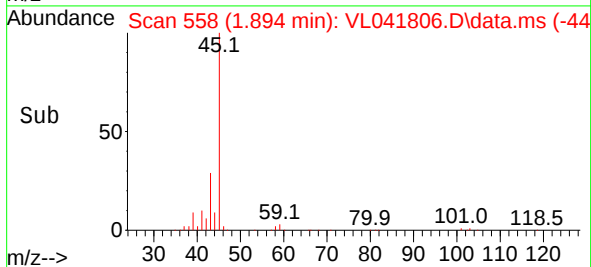
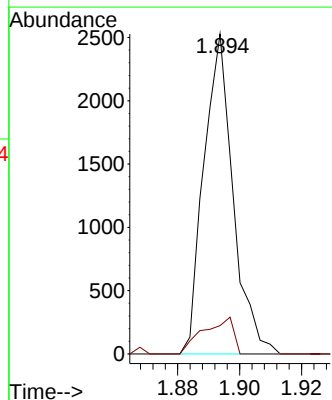
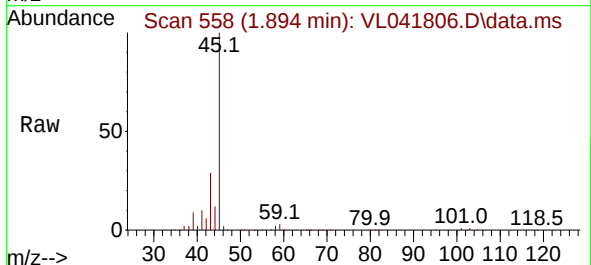
Instrument :
MSVOA_L
ClientSampleId :

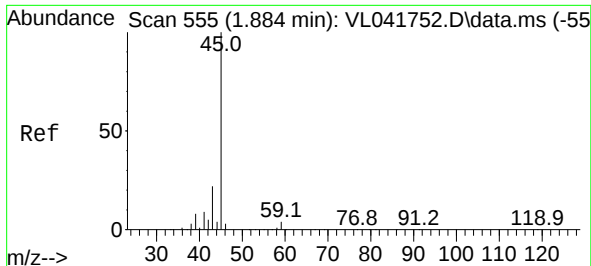
Tgt Ion: 39 Resp: 507
Ion Ratio Lower Upper
39 100
54 0.0 58.4 87.6#



#17
tert-Butyl alcohol
Concen: 0.119 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.143 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

Tgt Ion: 59 Resp: 1657
Ion Ratio Lower Upper
59 100
57 11.6 8.6 13.0





#19

Isopropyl Alcohol

Concen: 5.751 ppbv

RT: 1.894 min Scan# 51

Delta R.T. 0.009 min

Lab File: VL041806.D

Acq: 18 Dec 2024 22:06

Instrument :

MSVOA_L

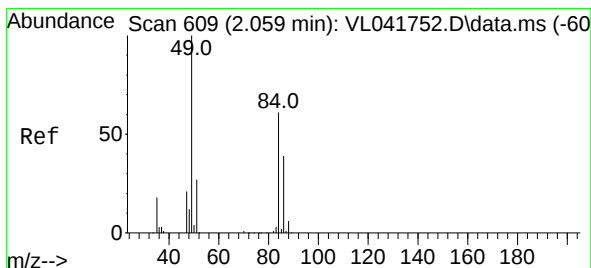
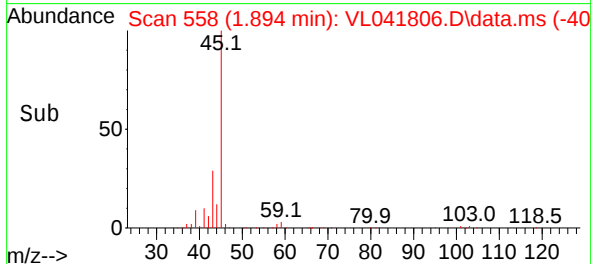
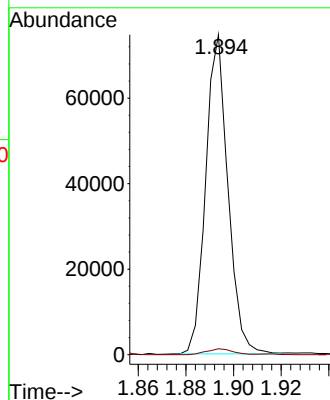
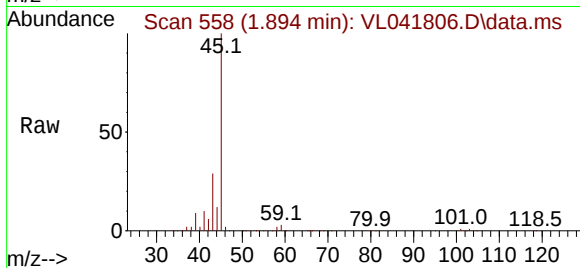
ClientSampleId :

Tgt Ion: 45 Resp: 48517

Ion Ratio Lower Upper

45 100

58 2.4 33.3 49.9#



#20

Methylene Chloride

Concen: 0.597 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL041806.D

Acq: 18 Dec 2024 22:06

Tgt Ion: 84 Resp: 2394

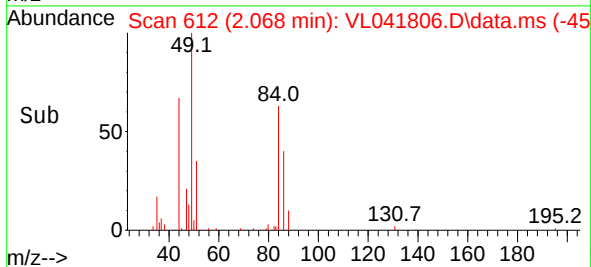
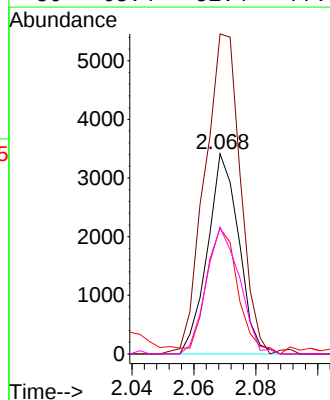
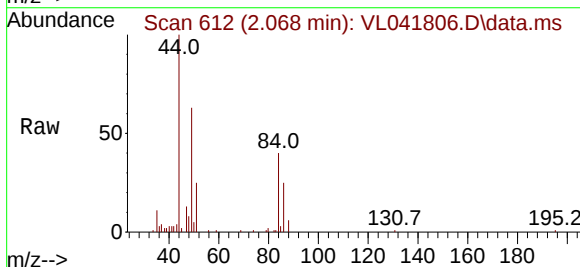
Ion Ratio Lower Upper

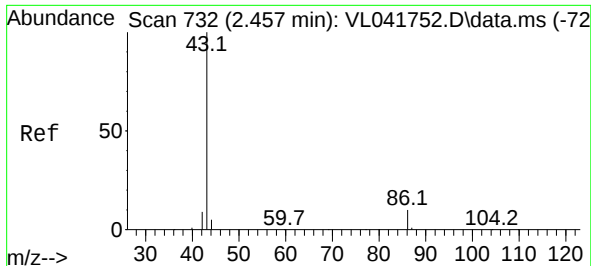
84 100

49 158.1 132.6 198.8

51 62.8 37.6 56.4#

86 63.4 51.4 77.0



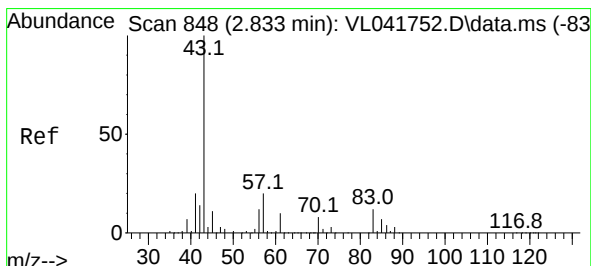
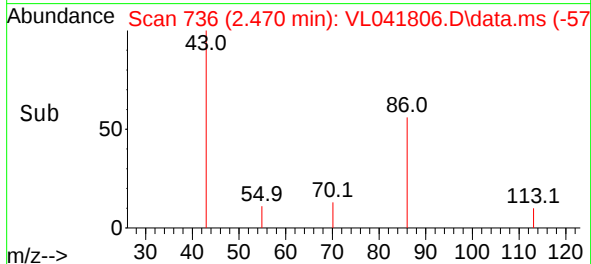
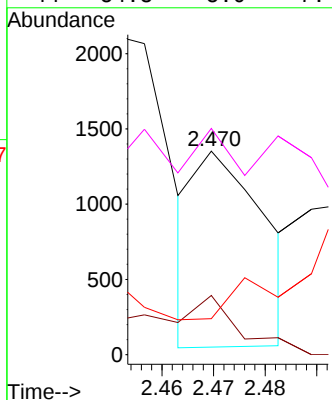
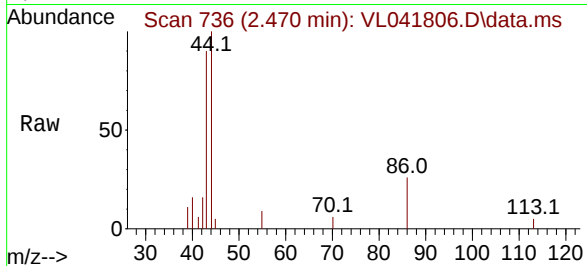


#23
 Vinyl Acetate
 Concen: 0.092 ppbv
 RT: 2.470 min Scan# 741
 Delta R.T. 0.013 min
 Lab File: VL041806.D
 Acq: 18 Dec 2024 22:06

Instrument :
 MSVOA_1
 ClientSampleId :

Tgt Ion: 43 Resp: 603

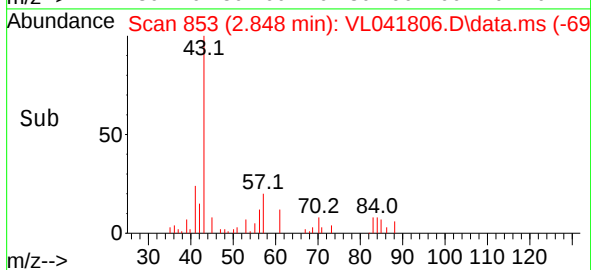
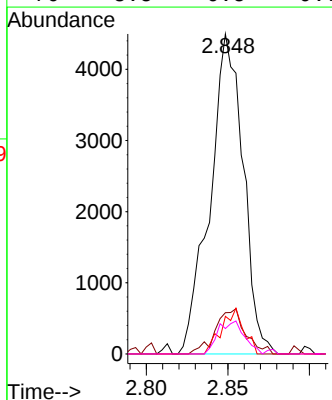
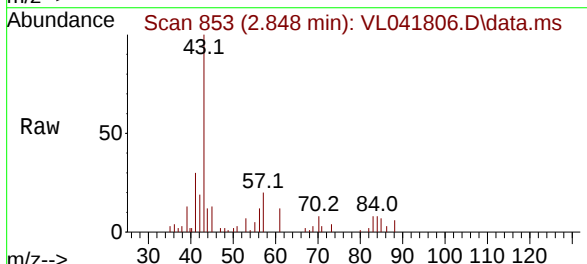
Ion	Ratio	Lower	Upper
43	100		
86	51.7	6.6	10.0#
42	1.3	8.2	12.2#
44	54.3	5.0	7.4#

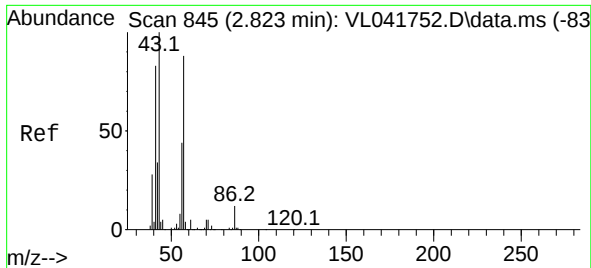


#25
 Ethyl Acetate
 Concen: 0.243 ppbv
 RT: 2.848 min Scan# 853
 Delta R.T. 0.016 min
 Lab File: VL041806.D
 Acq: 18 Dec 2024 22:06

Tgt Ion: 43 Resp: 6362

Ion	Ratio	Lower	Upper
43	100		
45	12.6	8.1	12.1#
61	9.6	7.0	10.6
70	8.5	6.5	9.7

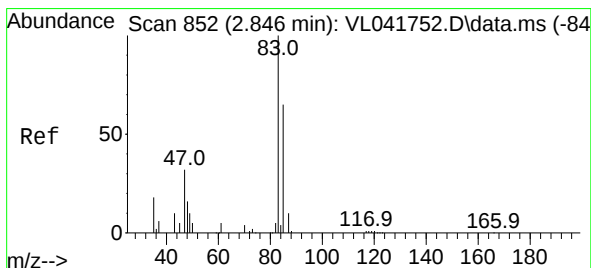
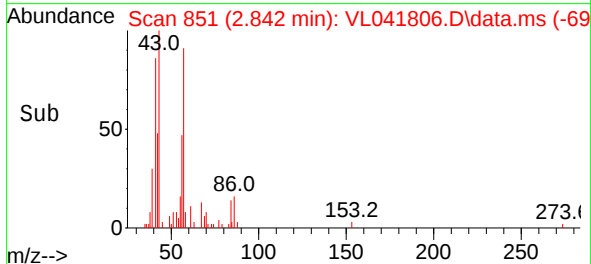
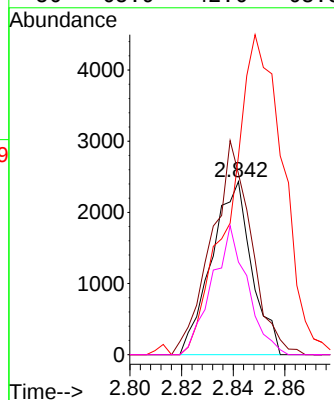
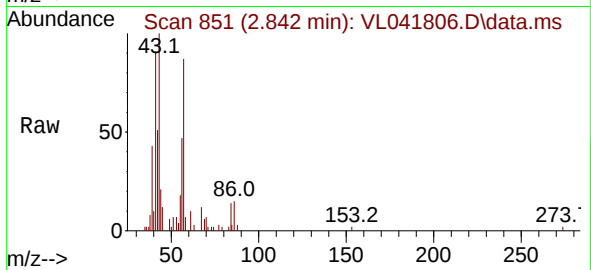




#26
Hexane
Concen: 0.264 ppbv
RT: 2.842 min Scan# 845
Delta R.T. 0.019 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

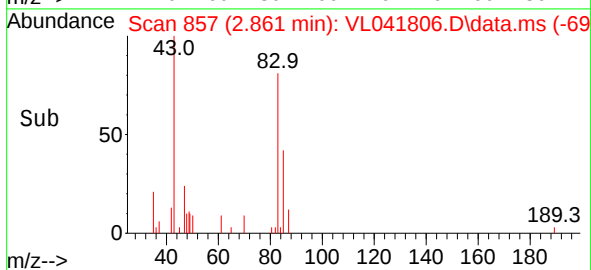
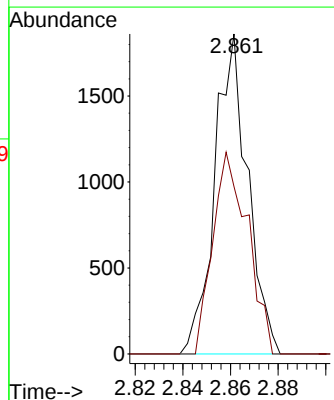
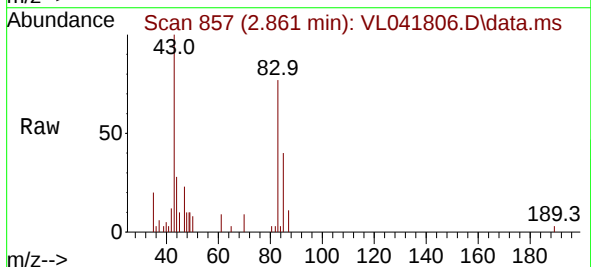
Instrument :
MSVOA_L
ClientSampleId :

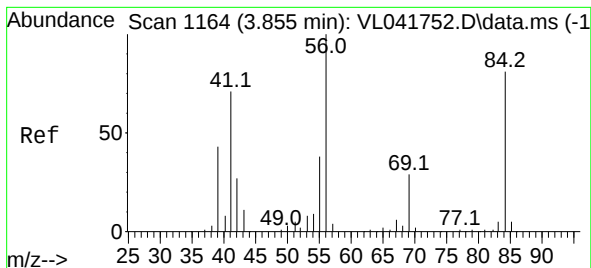
Tgt Ion: 57	Resp: 2624
Ion Ratio	Lower Upper
57	100
41	122.9 79.6 119.4#
43	243.9 211.0 316.6
56	65.9 42.6 63.8#



#29
Chloroform
Concen: 0.118 ppbv
RT: 2.861 min Scan# 857
Delta R.T. 0.016 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

Tgt Ion: 83	Resp: 1784
Ion Ratio	Lower Upper
83	100
85	52.3 51.8 77.6





#30

Cyclohexane

Concen: 0.033 ppbv

RT: 3.887 min Scan# 1164

Delta R.T. 0.032 min

Lab File: VL041806.D

Acq: 18 Dec 2024 22:06

Instrument :

MSVOA_L

ClientSampleId :

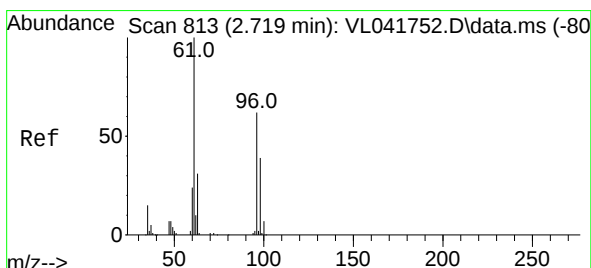
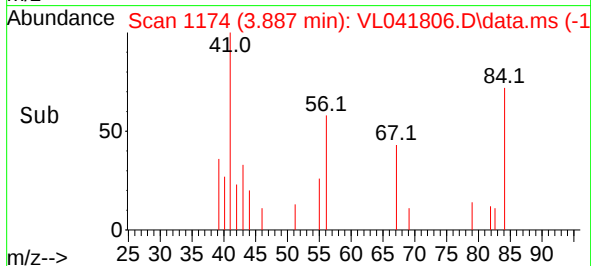
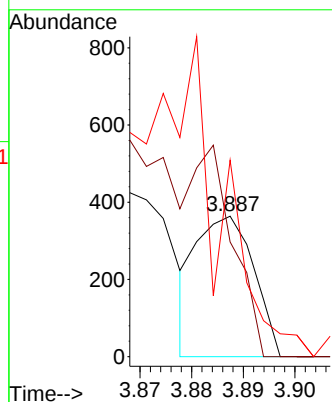
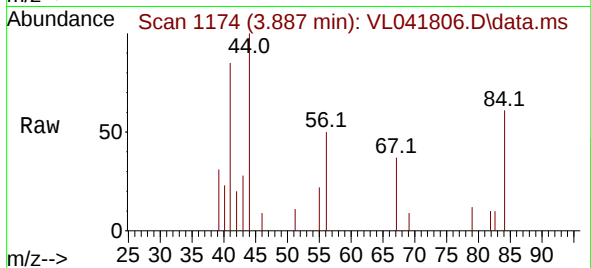
Tgt Ion: 84 Resp: 280

Ion Ratio Lower Upper

84 100

56 0.0 102.3 153.5#

41 413.9 74.0 111.0#



#31

cis-1,2-Dichloroethene

Concen: 0.059 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.136 min

Lab File: VL041806.D

Acq: 18 Dec 2024 22:06

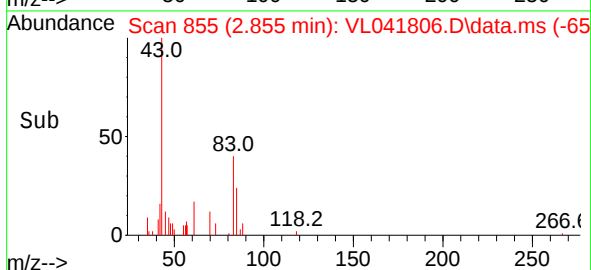
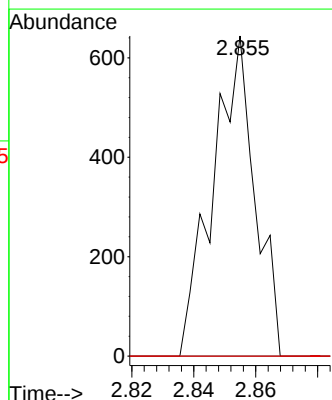
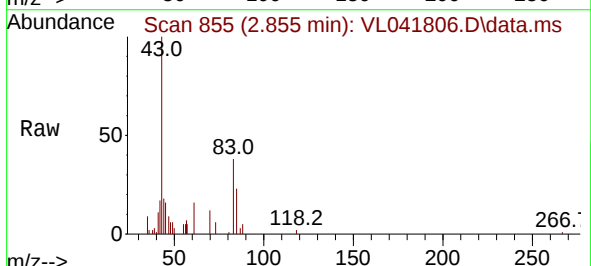
Tgt Ion: 61 Resp: 609

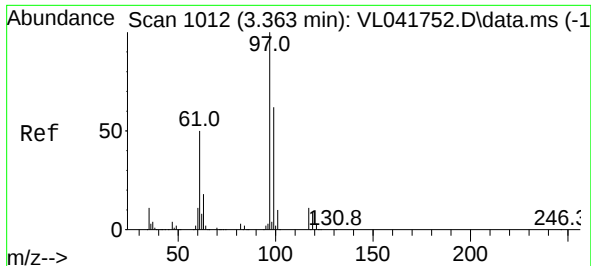
Ion Ratio Lower Upper

61 100

96 0.0 49.7 74.5#

98 0.0 30.8 46.2#





#32

1,1,1-Trichloroethane

Concen: 0.544 ppbv

RT: 3.383 min Scan# 1

Delta R.T. 0.019 min

Lab File: VL041806.D

Acq: 18 Dec 2024 22:06

Instrument :

MSVOA_L

ClientSampleId :

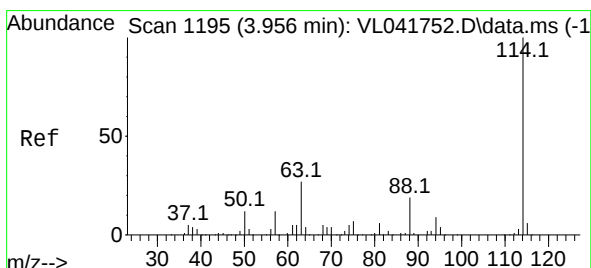
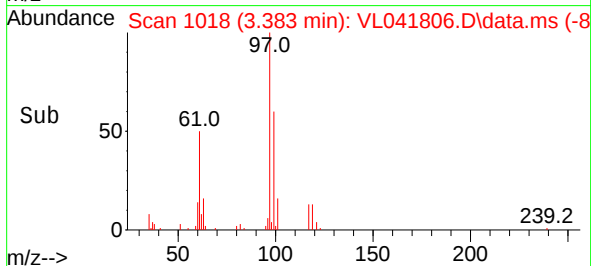
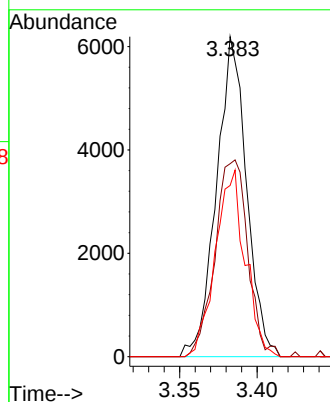
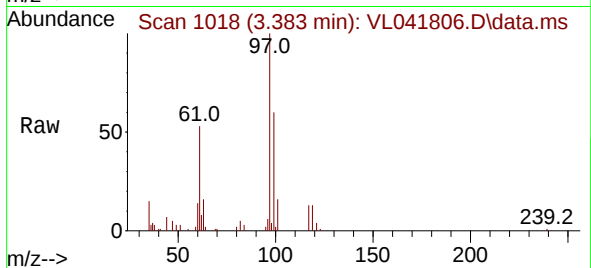
Tgt Ion: 97 Resp: 8367

Ion Ratio Lower Upper

97 100

99 67.3 51.0 76.4

61 57.6 42.2 63.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. 0.019 min

Lab File: VL041806.D

Acq: 18 Dec 2024 22:06

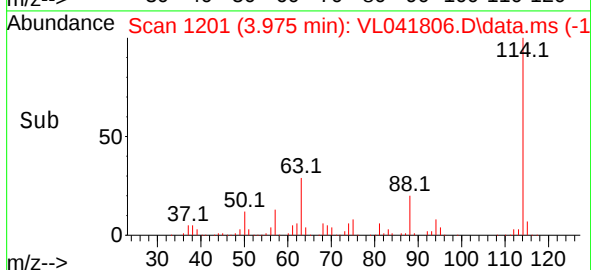
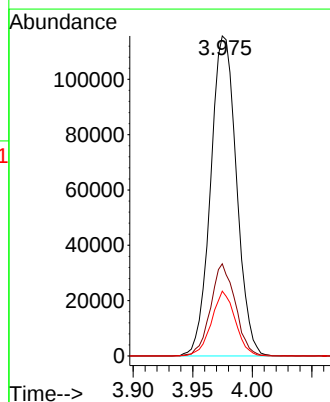
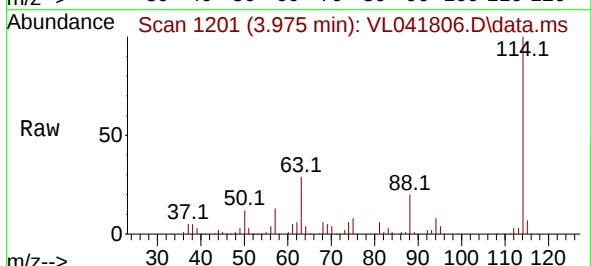
Tgt Ion: 114 Resp: 174871

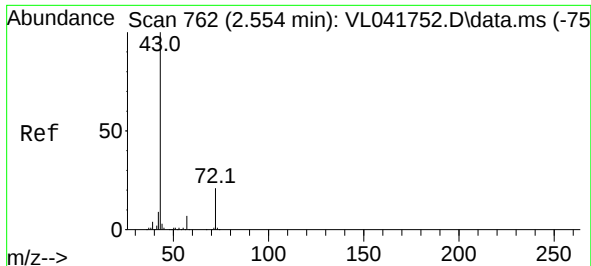
Ion Ratio Lower Upper

114 100

63 27.6 21.8 32.8

88 18.6 14.8 22.2





#34

2-Butanone

Concen: 0.184 ppbv

RT: 2.573 min Scan# 7

Delta R.T. 0.019 min

Lab File: VL041806.D

Acq: 18 Dec 2024 22:06

Instrument :

MSVOA_L

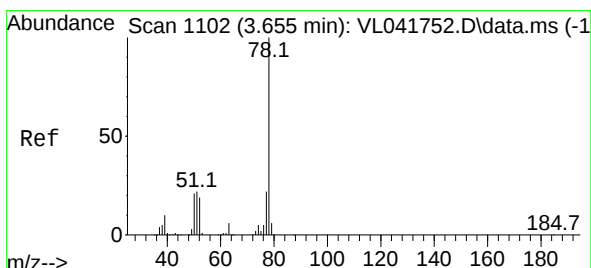
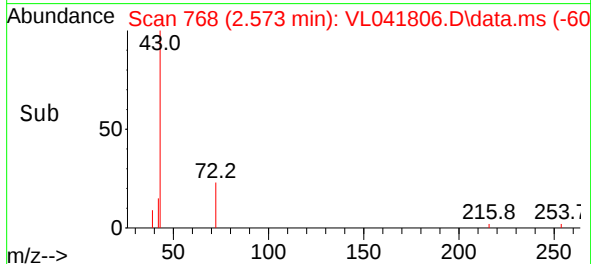
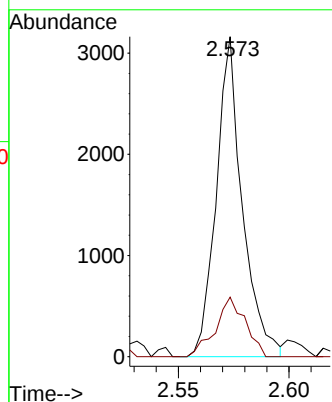
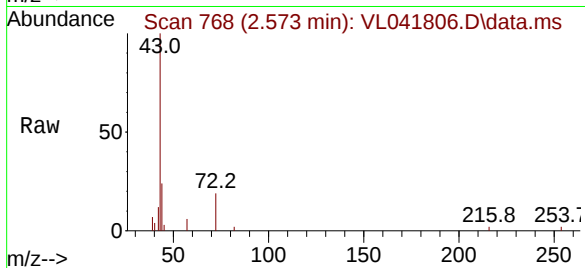
ClientSampleId :

Tgt Ion: 43 Resp: 2587

Ion Ratio Lower Upper

43 100

72 21.3 16.8 25.2



#36

Benzene

Concen: 0.034 ppbv

RT: 3.667 min Scan# 1106

Delta R.T. 0.013 min

Lab File: VL041806.D

Acq: 18 Dec 2024 22:06

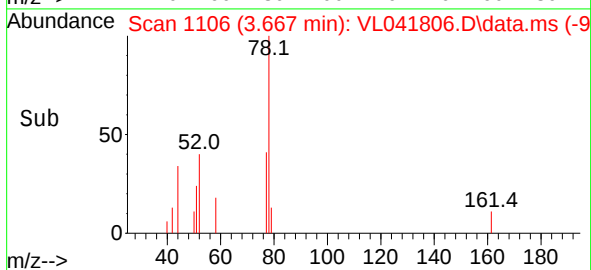
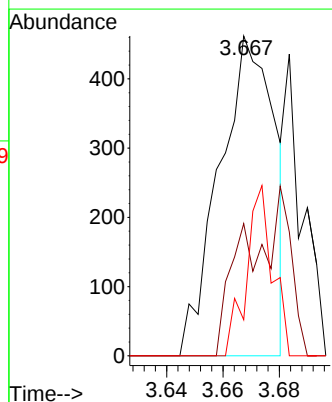
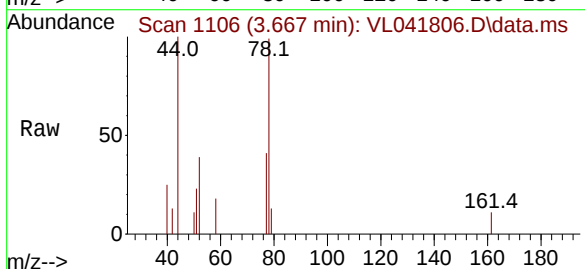
Tgt Ion: 78 Resp: 622

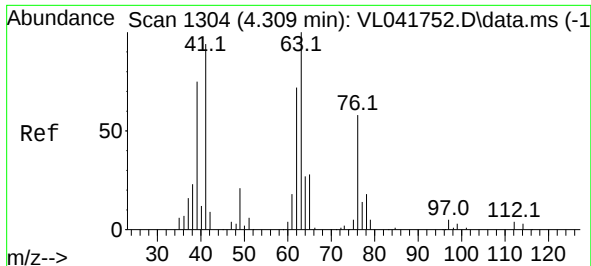
Ion Ratio Lower Upper

78 100

77 41.3 17.8 26.6#

50 11.3 17.2 25.8#





#39

1,2-Dichloropropane

Concen: 7.332 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.334 min

Lab File: VL041806.D

Acq: 18 Dec 2024 22:06

Instrument :

MSVOA_L

ClientSampleId :

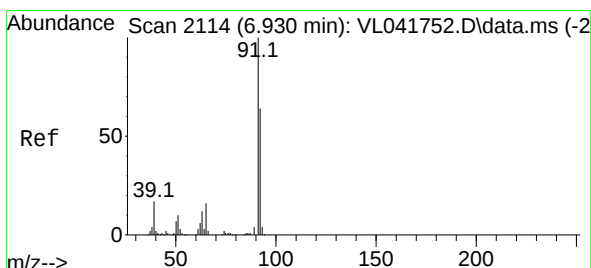
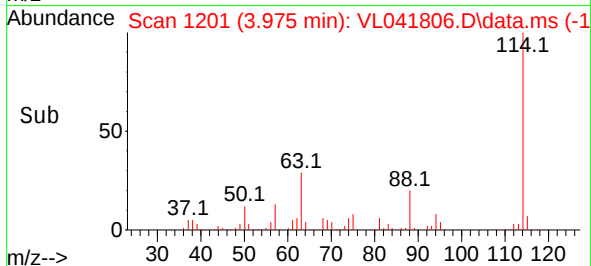
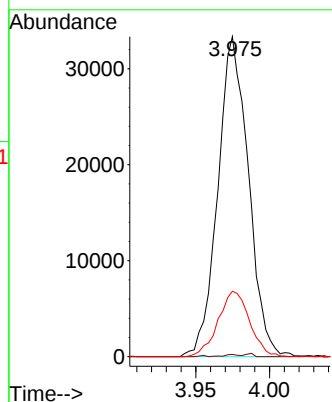
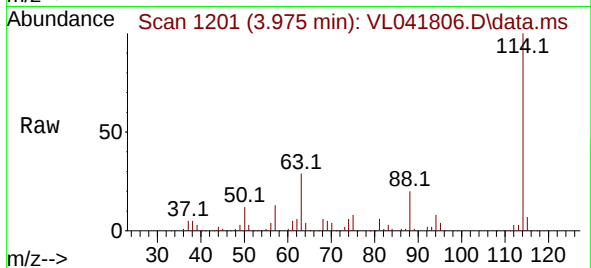
Tgt Ion: 63 Resp: 47969

Ion Ratio Lower Upper

63 100

41 0.7 75.3 112.9#

62 20.4 57.3 85.9#



#53

Toluene

Concen: 0.766 ppbv

RT: 6.956 min Scan# 2122

Delta R.T. 0.026 min

Lab File: VL041806.D

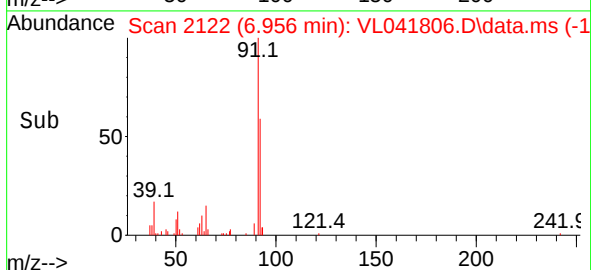
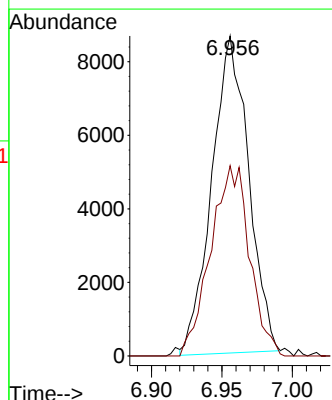
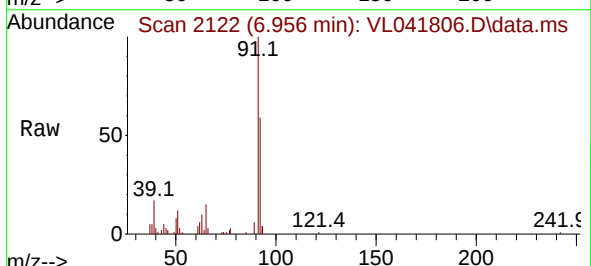
Acq: 18 Dec 2024 22:06

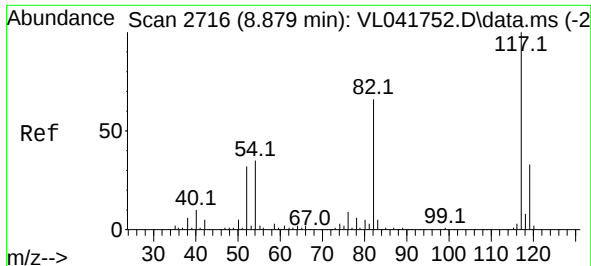
Tgt Ion: 91 Resp: 15703

Ion Ratio Lower Upper

91 100

92 63.4 47.9 71.9

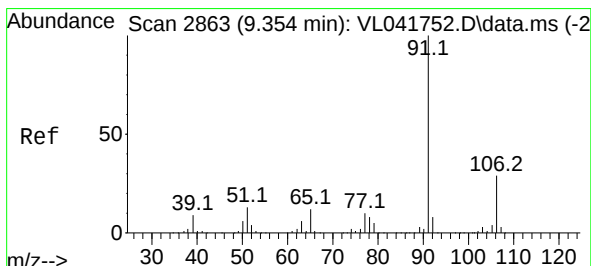
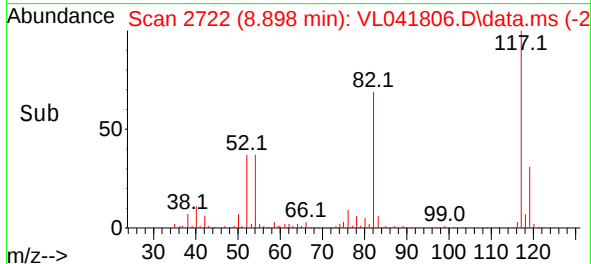
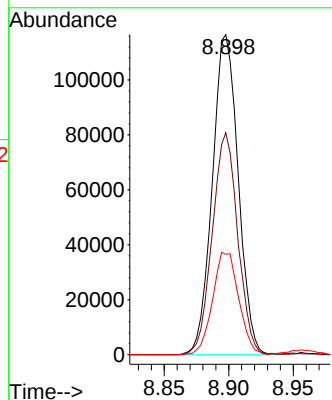
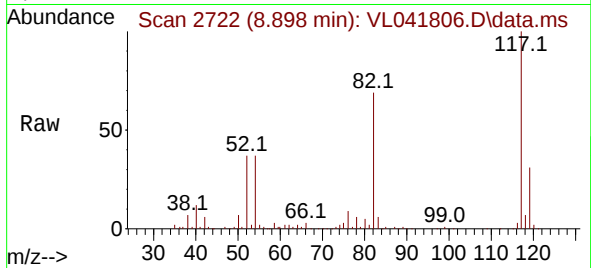




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2117
Delta R.T. 0.019 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

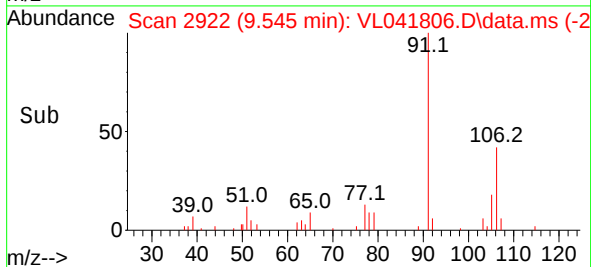
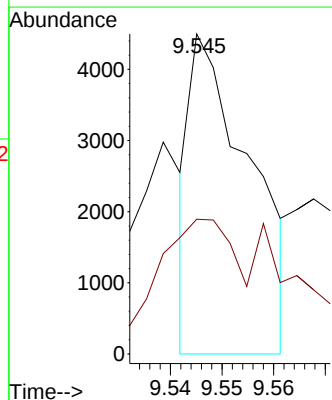
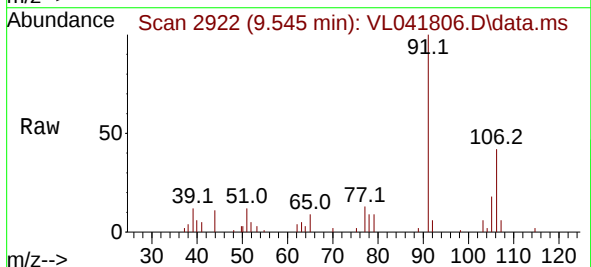
Instrument :
MSVOA_L
ClientSampleId :

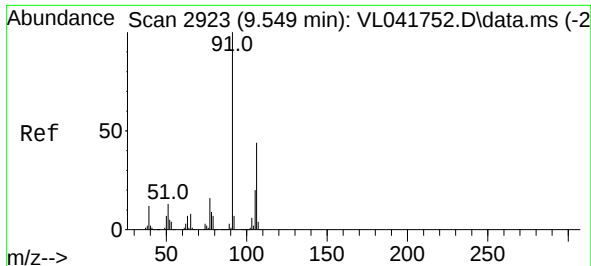
Tgt Ion:117 Resp: 162352
Ion Ratio Lower Upper
117 100
82 68.4 53.8 80.8
119 32.3 26.7 40.1



#58
Ethyl Benzene
Concen: 0.124 ppbv
RT: 9.545 min Scan# 2922
Delta R.T. 0.191 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

Tgt Ion: 91 Resp: 3621
Ion Ratio Lower Upper
91 100
106 34.3 23.5 35.3

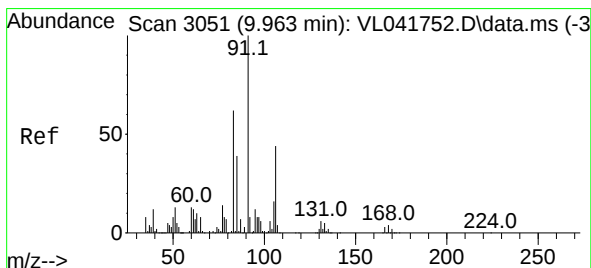
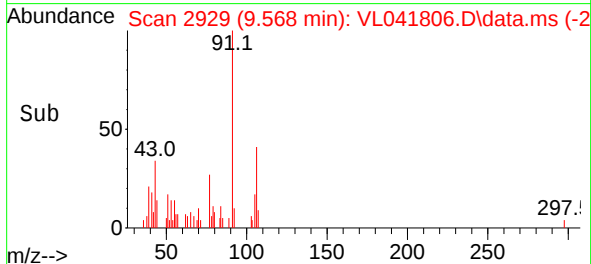
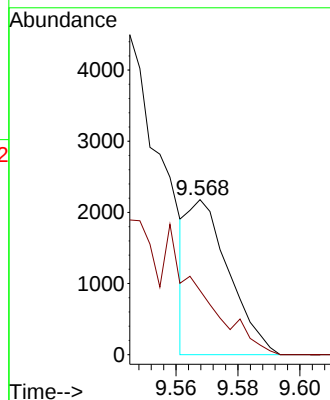
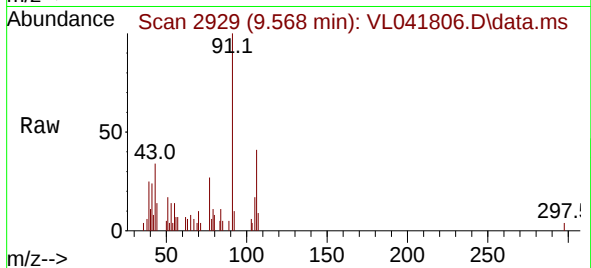




#59
m/p-Xylene
Concen: 0.086 ppbv
RT: 9.568 min Scan# 20
Delta R.T. 0.019 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

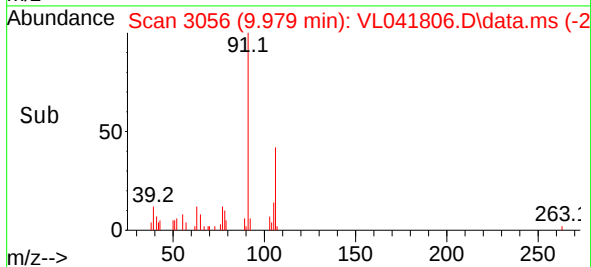
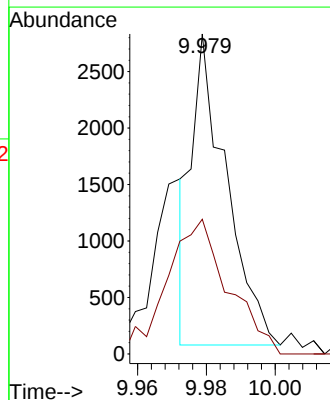
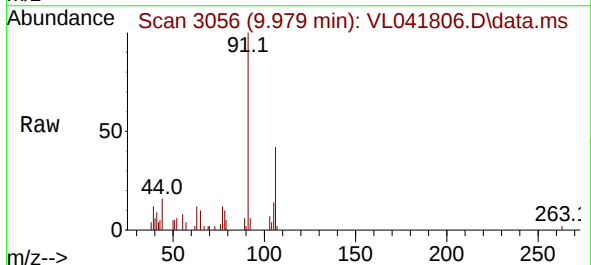
Instrument :
MSVOA_L
ClientSampleId :

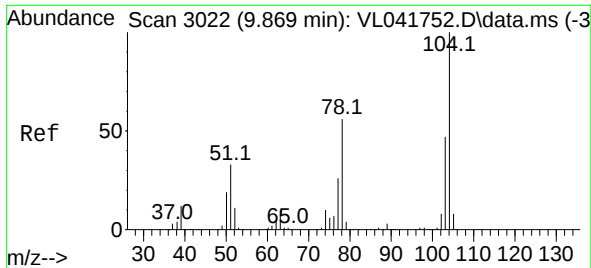
Tgt Ion: 91 Resp: 2029
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 0.081 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.016 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

Tgt Ion: 91 Resp: 1906
Ion Ratio Lower Upper
91 100
106 77.0 21.1 63.4#

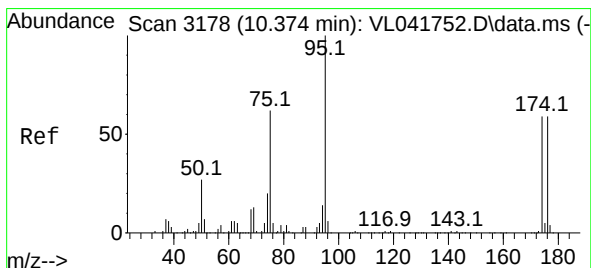
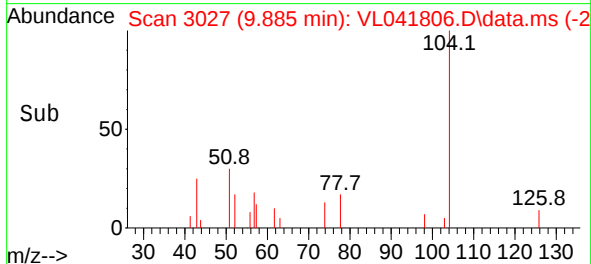
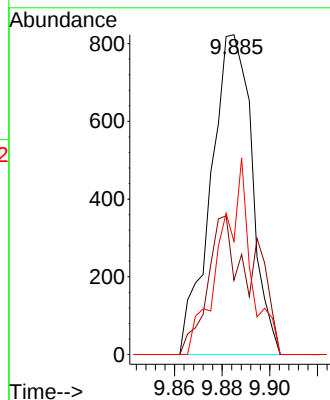
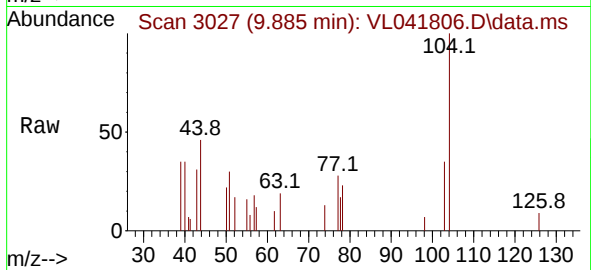




#61
Styrene
Concen: 0.097 ppbv
RT: 9.885 min Scan# 3022
Delta R.T. 0.016 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:104 Resp: 988
Ion Ratio Lower Upper
104 100
78 47.2 43.8 65.6
103 45.2 37.8 56.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.937 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.016 min
Lab File: VL041806.D
Acq: 18 Dec 2024 22:06

Tgt Ion: 95 Resp: 134435
Ion Ratio Lower Upper
95 100
174 57.3 47.6 71.4
175 4.6 3.7 5.5

