

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121924\
 Data File : VL041823.D
 Acq On : 19 Dec 2024 16:34
 Operator : SY/MD
 Sample : P5296-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 20 01:45:25 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	2.787	49	79340	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	176938	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	171967	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	140400	9.797	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.000%

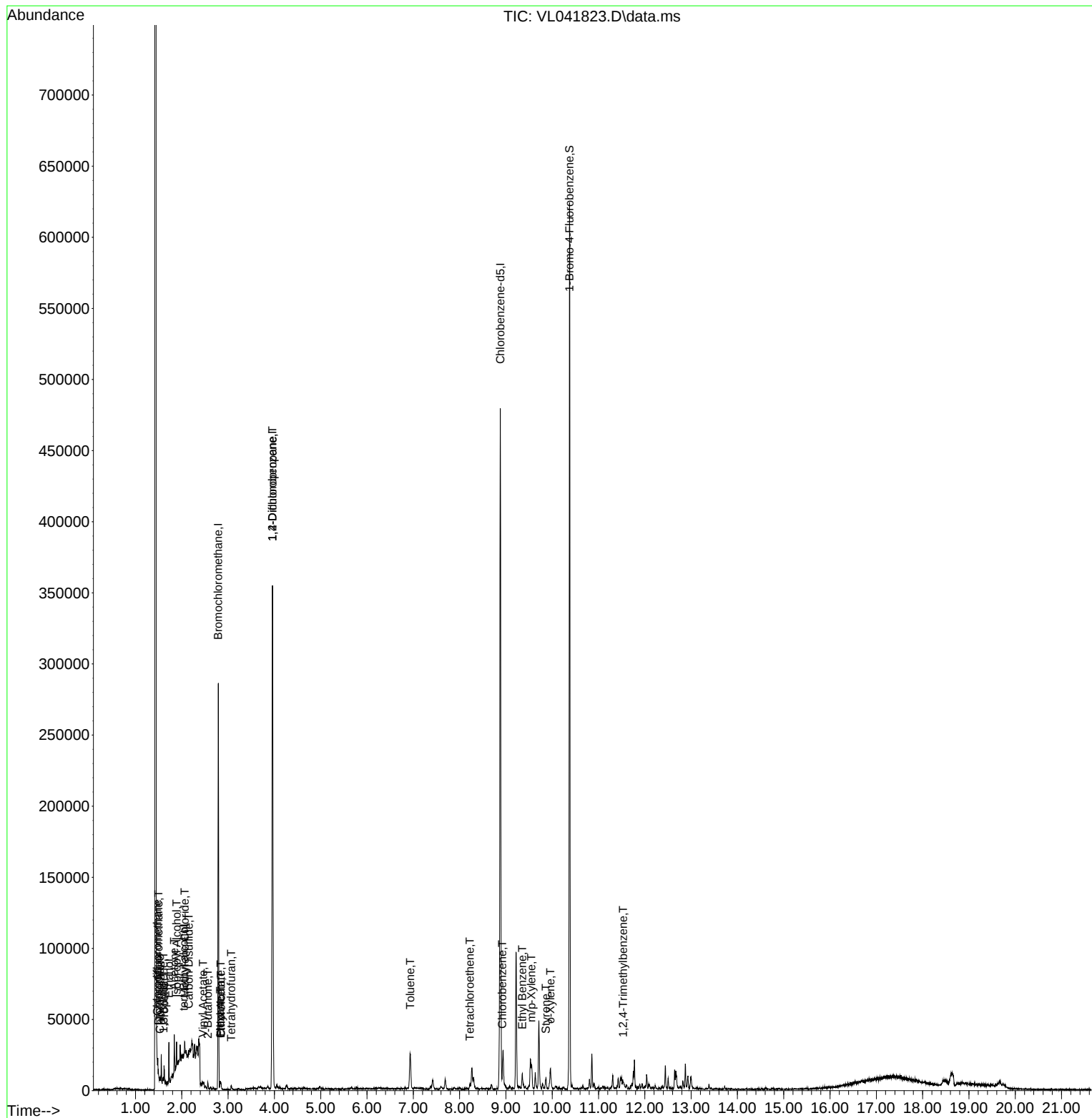
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	1595	0.113	ppbv	90
3) Chlorodifluoromethane	1.470	51	1795	0.139	ppbv #	73
4) Chloromethane	1.528	50	352	0.064	ppbv #	53
9) Propene	1.622	41	1673	0.298	ppbv	95
13) Ethanol	1.722	45	8825	19.004	ppbv #	34
15) Acetone	1.835	43	11754	0.761	ppbv	98
16) 1,3-Butadiene	1.602	39	488	0.080	ppbv #	13
17) tert-Butyl alcohol	2.046	59	1532	0.100	ppbv	98
19) Isopropyl Alcohol	1.887	45	6216	0.671	ppbv #	41
20) Methylene Chloride	2.065	84	994	0.226	ppbv #	91
23) Vinyl Acetate	2.457	43	2924	0.408	ppbv #	73
25) Ethyl Acetate	2.842	43	2682	0.093	ppbv #	92
26) Hexane	2.829	57	666	0.061	ppbv #	24
27) Carbon Disulfide	2.153	76	341	0.035	ppbv #	1
29) Chloroform	2.845	83	587	0.035	ppbv #	72
34) 2-Butanone	2.564	43	3011	0.212	ppbv	97
39) 1,2-Dichloropropane	3.959	63	50025	7.557	ppbv #	18
41) Tetrahydrofuran	3.069	42	568	0.071	ppbv #	73
52) Tetrachloroethene	8.221	164	409	0.060	ppbv #	77
53) Toluene	6.936	91	7313	0.352	ppbv #	21
57) Chlorobenzene	8.920	112	1146	0.065	ppbv #	93
58) Ethyl Benzene	9.351	91	4756	0.154	ppbv #	89
59) m/p-Xylene	9.548	91	3033	0.122	ppbv #	100
60) o-Xylene	9.963	91	5184	0.208	ppbv	100
61) Styrene	9.862	104	1668	0.155	ppbv	92
74) 1,2,4-Trimethylbenzene	11.532	105	930	0.035	ppbv #	54

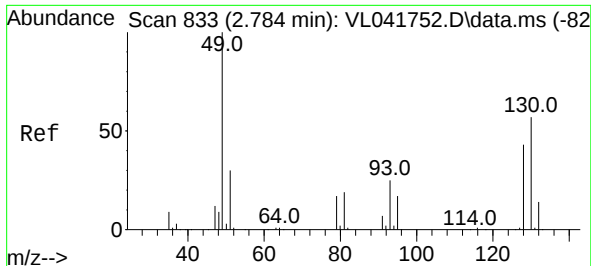
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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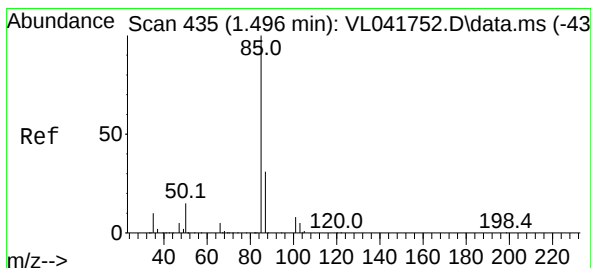
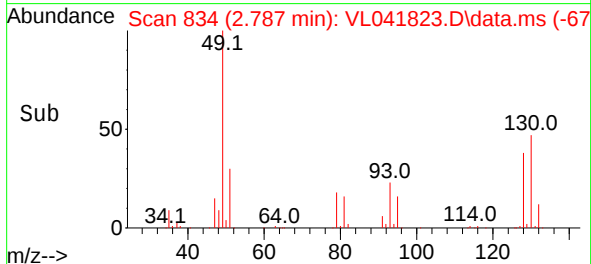
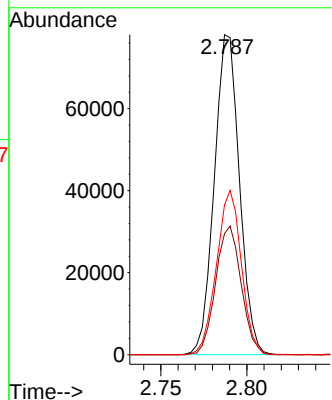
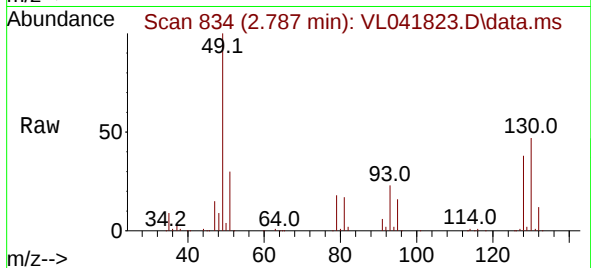




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL041823.D
Acq: 19 Dec 2024 16:34

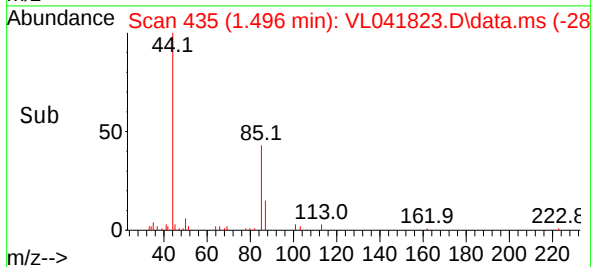
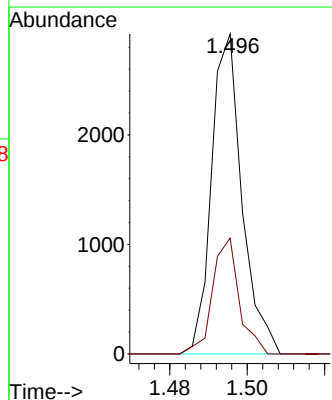
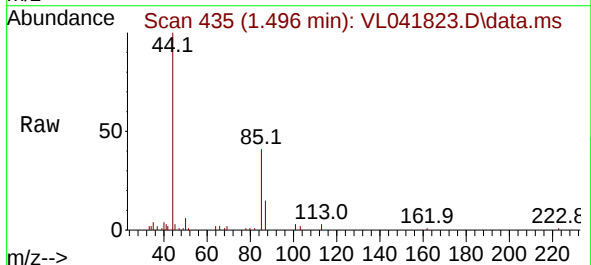
Instrument :
MSVOA_L
ClientSampleId :

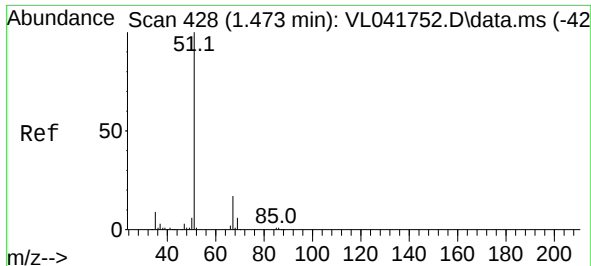
Tgt Ion: 49 Resp: 79340
Ion Ratio Lower Upper
49 100
128 40.8 21.6 64.6
130 50.9 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.113 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL041823.D
Acq: 19 Dec 2024 16:34

Tgt Ion: 85 Resp: 1595
Ion Ratio Lower Upper
85 100
87 36.2 24.5 36.7

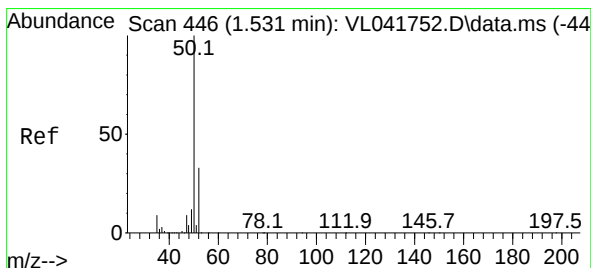
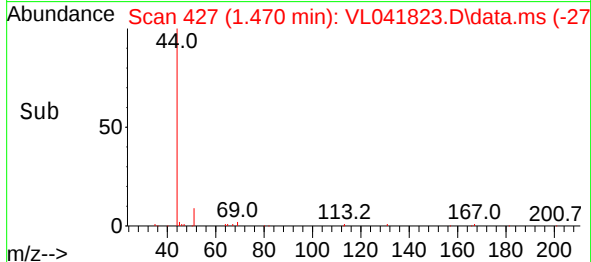
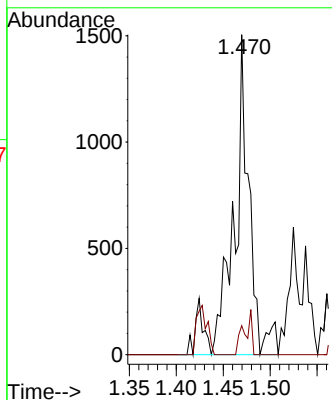
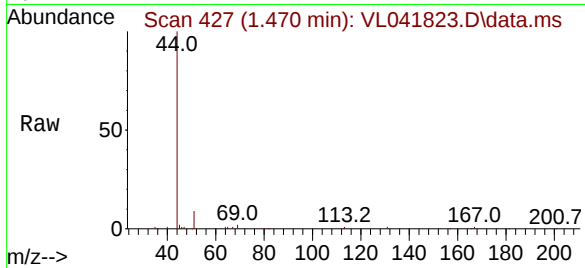




#3
Chlorodifluoromethane
Concen: 0.139 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.004 min
Lab File: VL041823.D
Acq: 19 Dec 2024 16:34

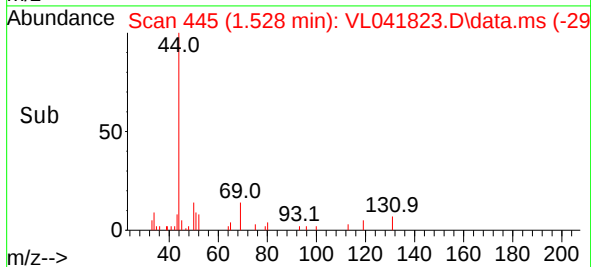
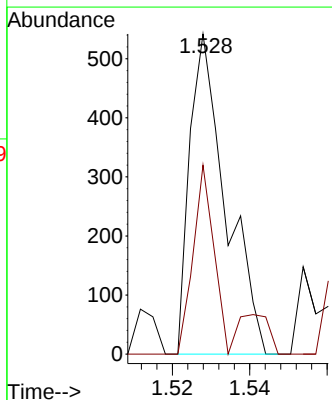
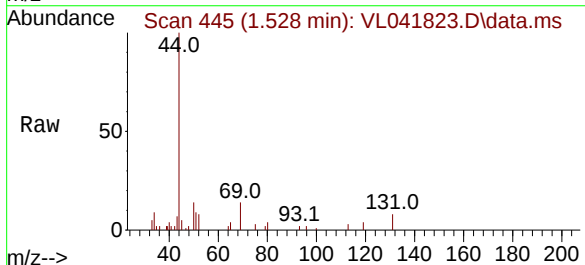
Instrument :
MSVOA_L
ClientSampleId :

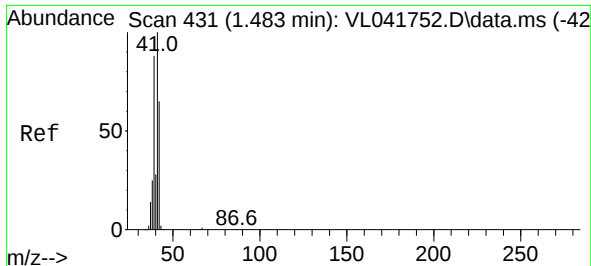
Tgt Ion: 51 Resp: 1795
Ion Ratio Lower Upper
51 100
67 6.6 15.0 22.4#



#4
Chloromethane
Concen: 0.064 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.004 min
Lab File: VL041823.D
Acq: 19 Dec 2024 16:34

Tgt Ion: 50 Resp: 352
Ion Ratio Lower Upper
50 100
52 59.0 26.2 39.2#





#9

Propene

Concen: 0.298 ppbv

RT: 1.622 min Scan# 41

Delta R.T. 0.139 min

Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

Instrument :

MSVOA_L

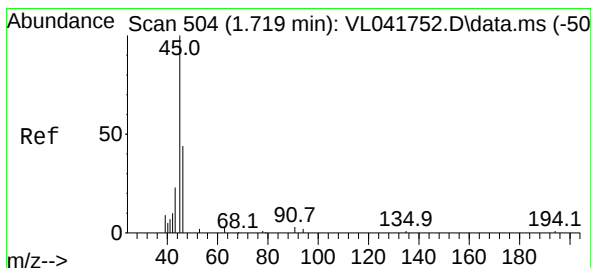
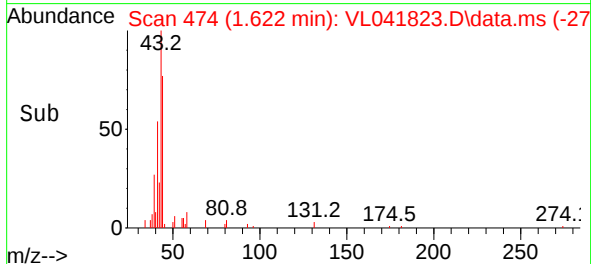
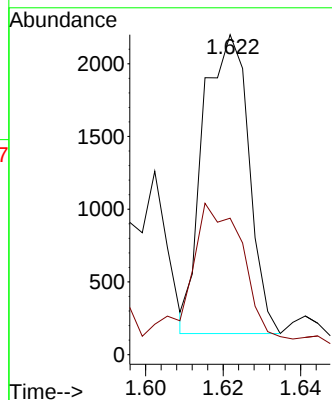
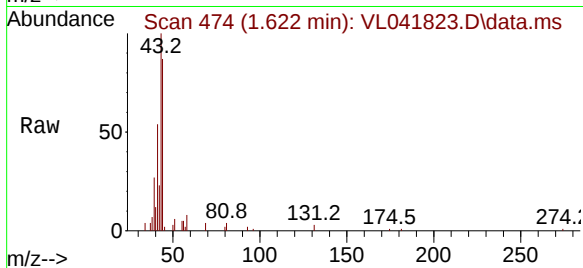
ClientSampleId :

Tgt Ion: 41 Resp: 1673

Ion Ratio Lower Upper

41 100

42 69.3 52.4 78.6



#13

Ethanol

Concen: 19.004 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL041823.D

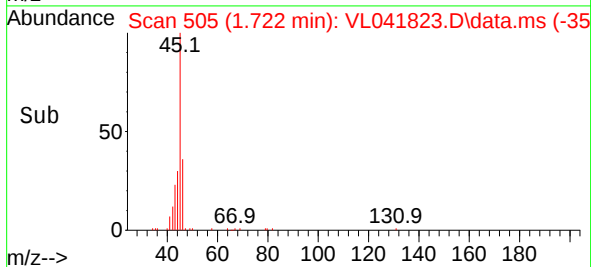
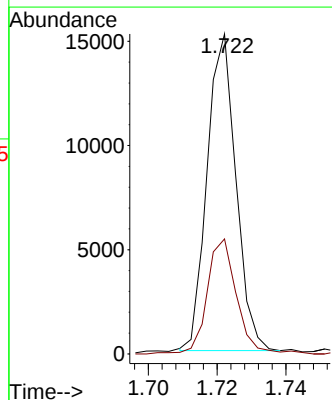
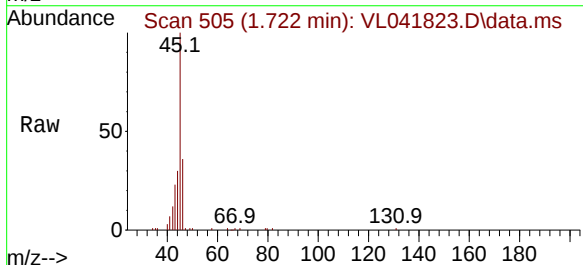
Acq: 19 Dec 2024 16:34

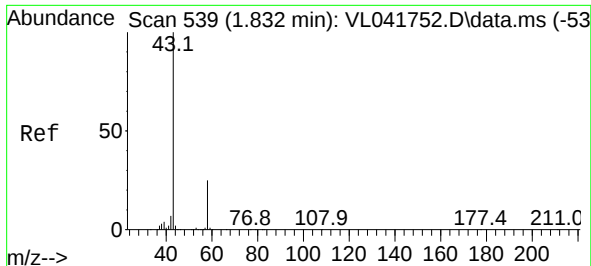
Tgt Ion: 45 Resp: 8825

Ion Ratio Lower Upper

45 100

46 0.0 16.4 65.8#





#15

Acetone

Concen: 0.761 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

Instrument :

MSVOA_L

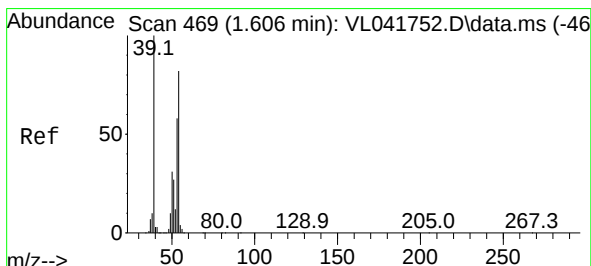
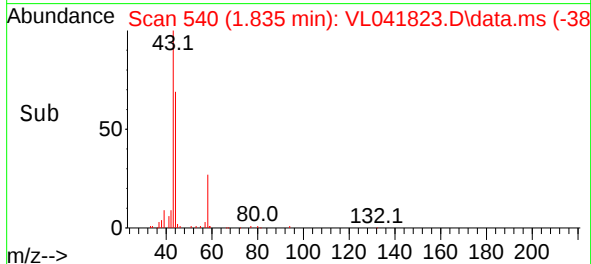
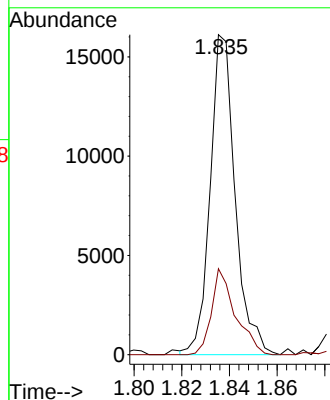
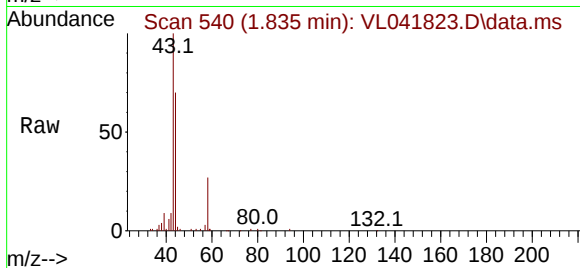
ClientSampleId :

Tgt Ion: 43 Resp: 11754

Ion Ratio Lower Upper

43 100

58 25.7 19.7 29.5



#16

1,3-Butadiene

Concen: 0.080 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.004 min

Lab File: VL041823.D

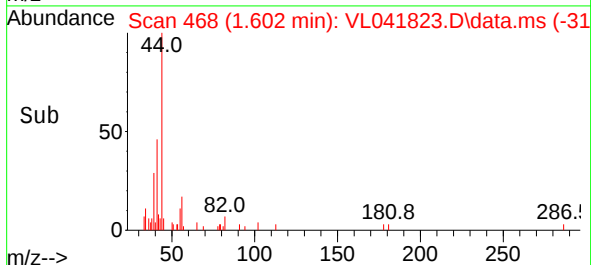
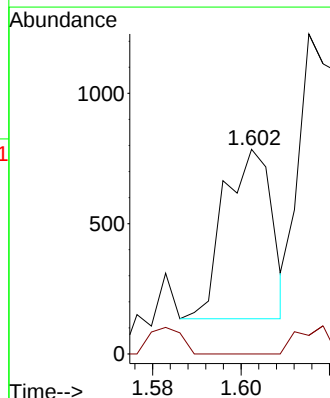
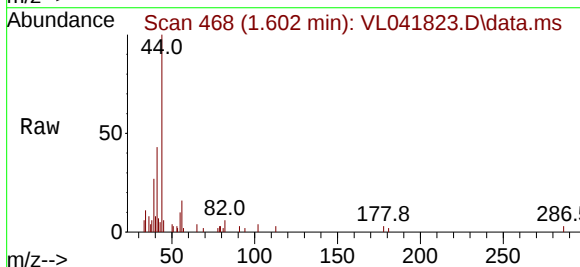
Acq: 19 Dec 2024 16:34

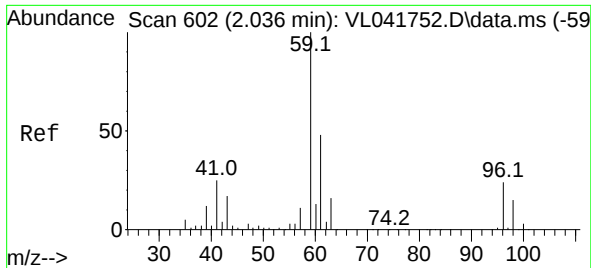
Tgt Ion: 39 Resp: 488

Ion Ratio Lower Upper

39 100

54 0.0 58.4 87.6#

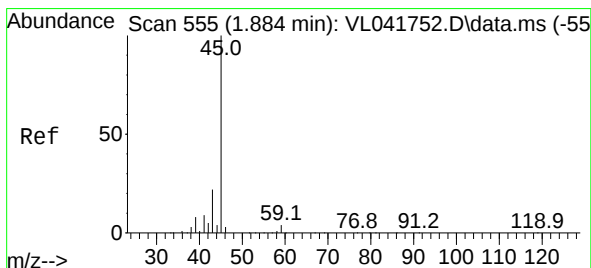
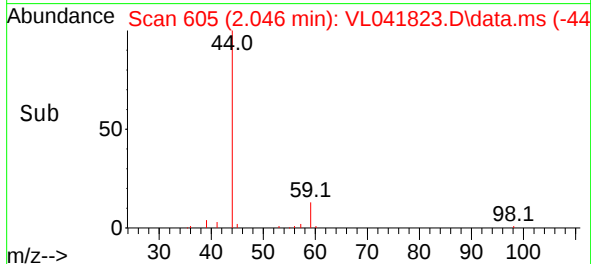
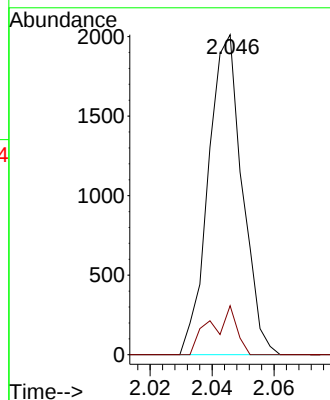
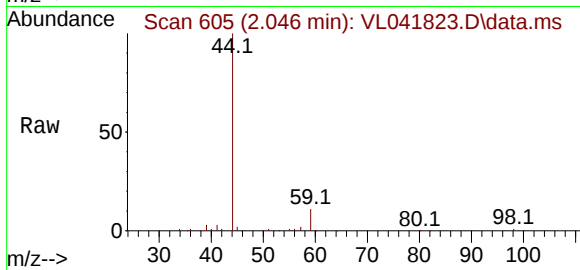




#17
tert-Butyl alcohol
Concen: 0.100 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL041823.D
Acq: 19 Dec 2024 16:34

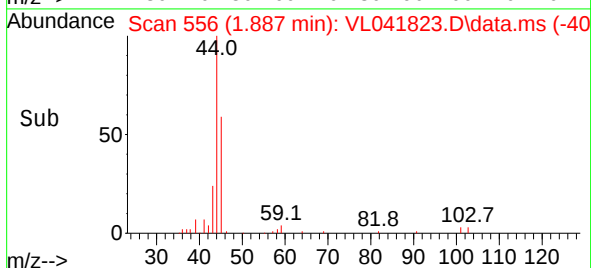
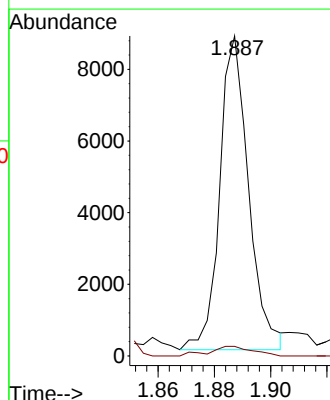
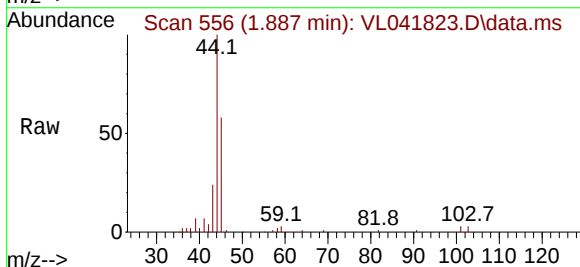
Instrument :
MSVOA_L
ClientSampleId :

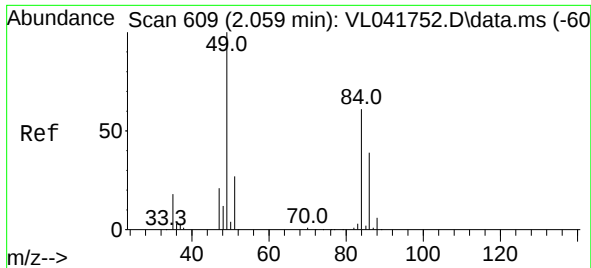
Tgt Ion: 59 Resp: 1532
Ion Ratio Lower Upper
59 100
57 11.6 8.6 13.0



#19
Isopropyl Alcohol
Concen: 0.671 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL041823.D
Acq: 19 Dec 2024 16:34

Tgt Ion: 45 Resp: 6216
Ion Ratio Lower Upper
45 100
58 4.2 33.3 49.9#





#20

Methylene Chloride

Concen: 0.226 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

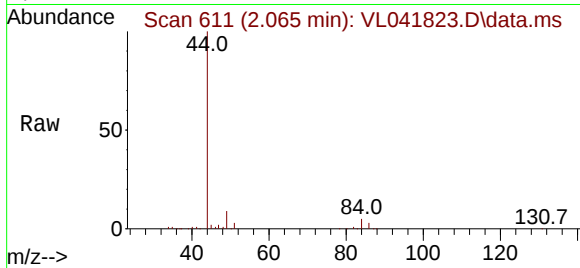
Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 994

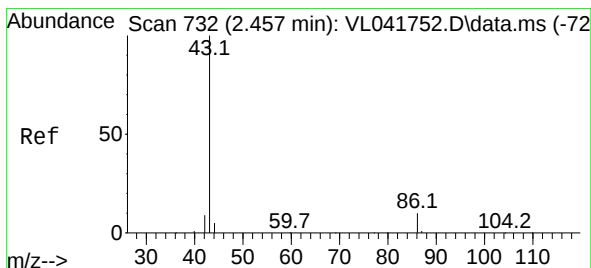
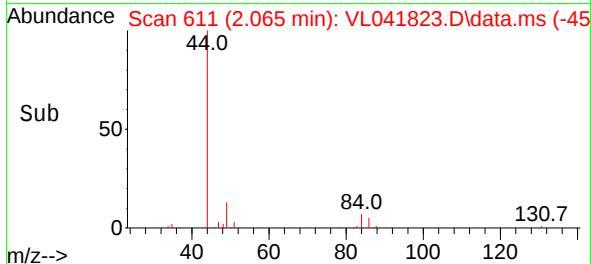
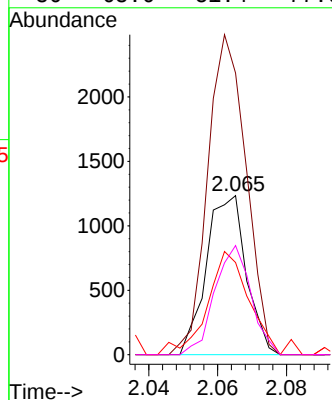
Ion Ratio Lower Upper

84 100

49 177.1 132.6 198.8

51 58.0 37.6 56.4#

86 68.6 51.4 77.0



#23

Vinyl Acetate

Concen: 0.408 ppbv

RT: 2.457 min Scan# 732

Delta R.T. -0.000 min

Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

Tgt Ion: 43 Resp: 2924

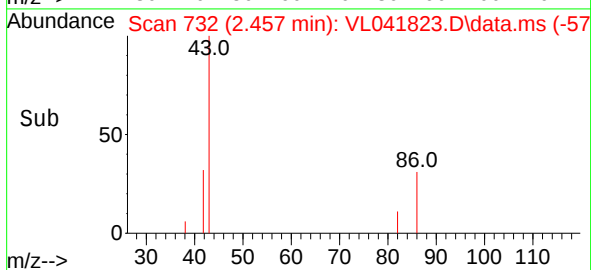
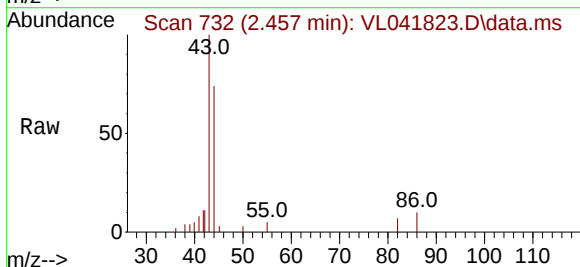
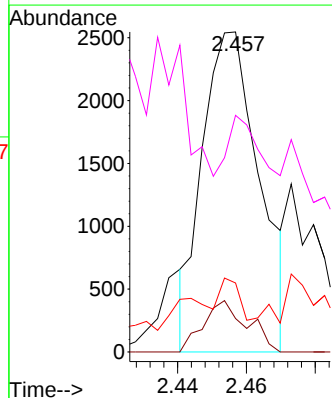
Ion Ratio Lower Upper

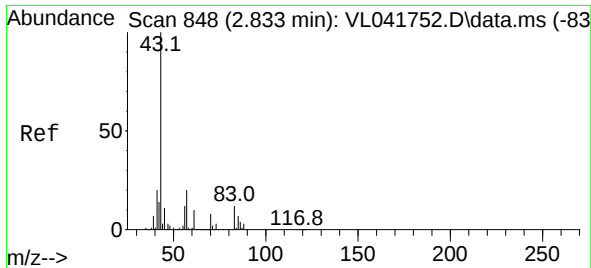
43 100

86 14.1 6.6 10.0#

42 16.9 8.2 12.2#

44 25.4 5.0 7.4#

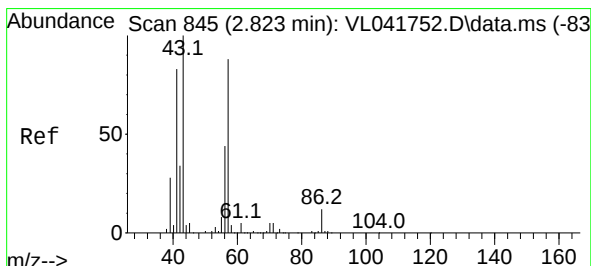
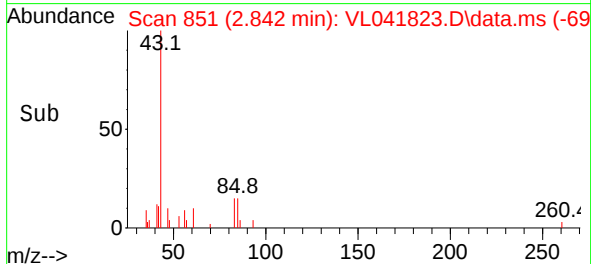
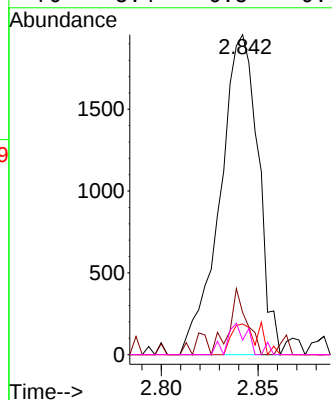
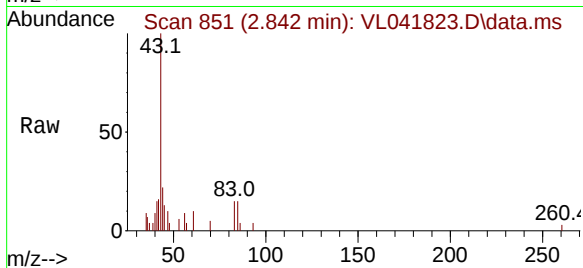




#25
Ethyl Acetate
Concen: 0.093 ppbv
RT: 2.842 min Scan# 848
Delta R.T. 0.009 min
Lab File: VL041823.D
Acq: 19 Dec 2024 16:34

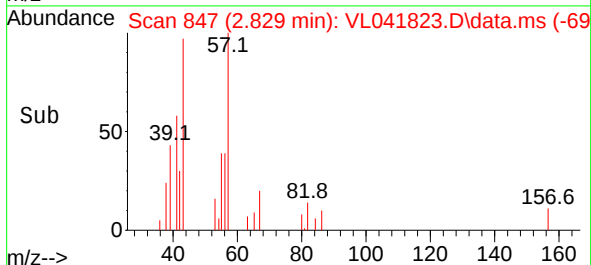
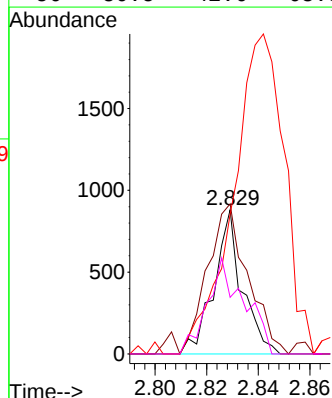
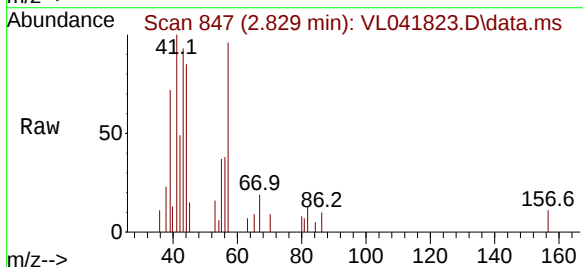
Instrument :
MSVOA_L
ClientSampleId :

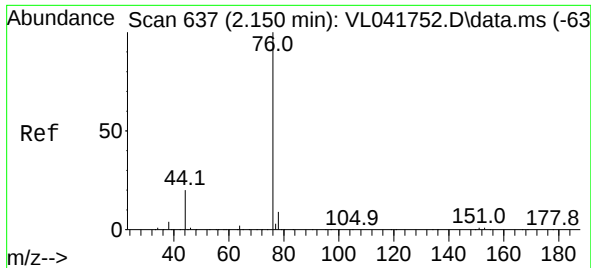
Tgt Ion:	43	Resp:	2682
Ion	Ratio	Lower	Upper
43	100		
45	13.7	8.1	12.1#
61	6.9	7.0	10.6#
70	5.4	6.5	9.7#



#26
Hexane
Concen: 0.061 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL041823.D
Acq: 19 Dec 2024 16:34

Tgt Ion:	57	Resp:	666
Ion	Ratio	Lower	Upper
57	100		
41	158.4	79.6	119.4#
43	421.8	211.0	316.6#
56	86.5	42.6	63.8#





#27

Carbon Disulfide

Concen: 0.035 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

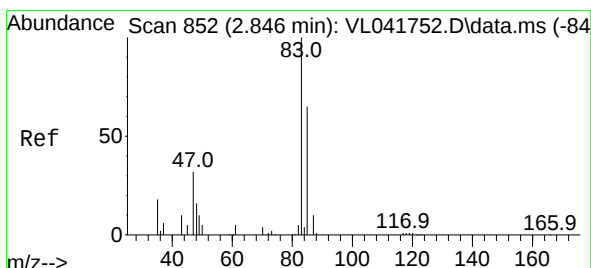
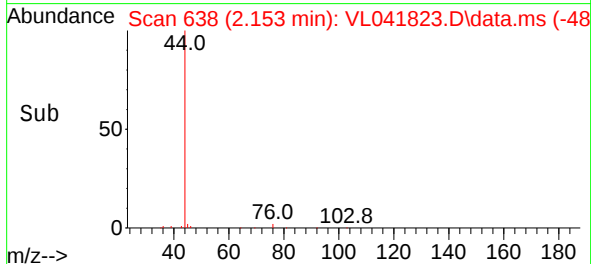
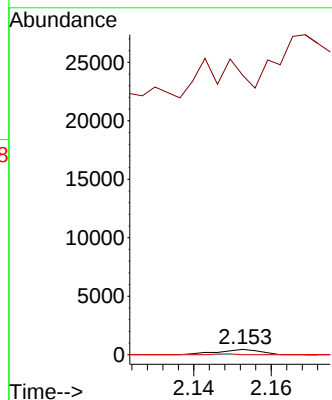
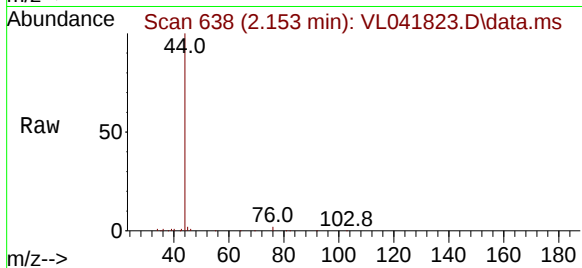
Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 76 Resp: 341

Ion	Ratio	Lower	Upper
76	100		
44	20125.5	17.6	26.4#
78	6.7	10.2	15.4#



#29

Chloroform

Concen: 0.035 ppbv

RT: 2.845 min Scan# 852

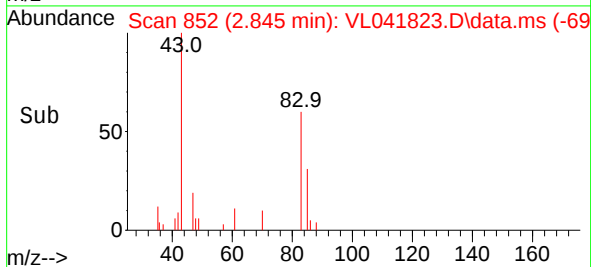
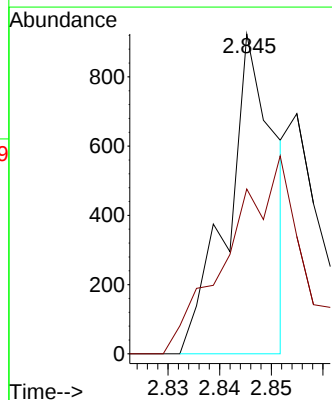
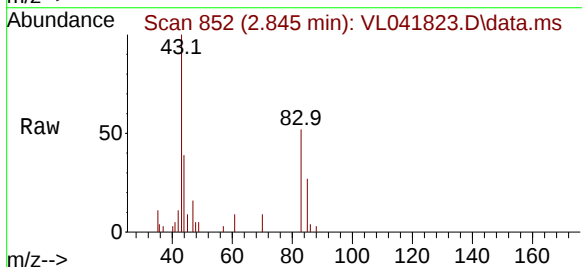
Delta R.T. -0.000 min

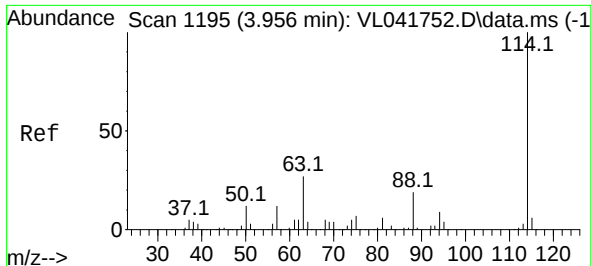
Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

Tgt Ion: 83 Resp: 587

Ion	Ratio	Lower	Upper
83	100		
85	42.7	51.8	77.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.003 min

Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

Instrument :

MSVOA_L

ClientSampleId :

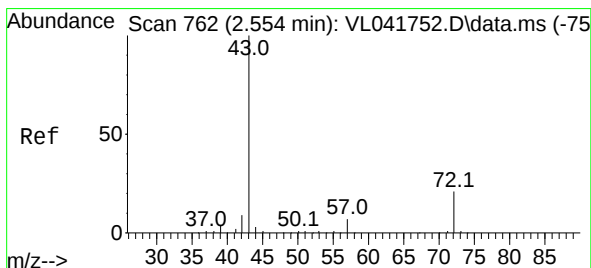
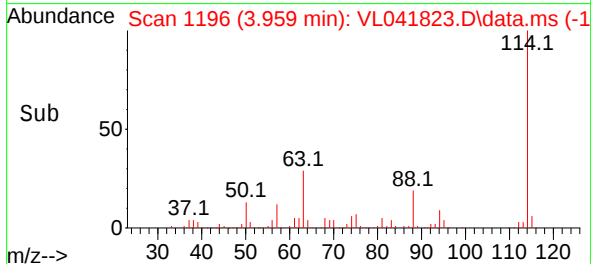
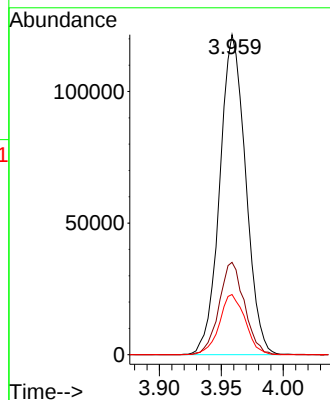
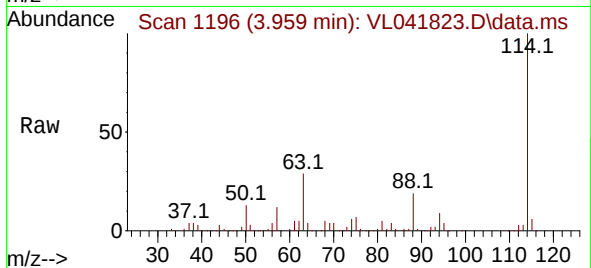
Tgt Ion:114 Resp: 176938

Ion Ratio Lower Upper

114 100

63 28.4 21.8 32.8

88 18.8 14.8 22.2



#34

2-Butanone

Concen: 0.212 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.009 min

Lab File: VL041823.D

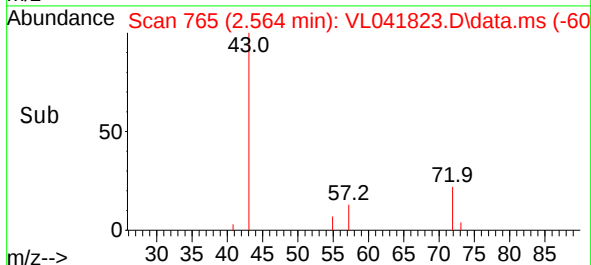
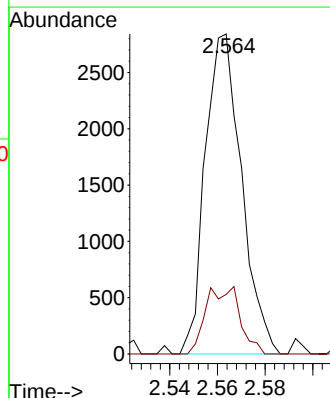
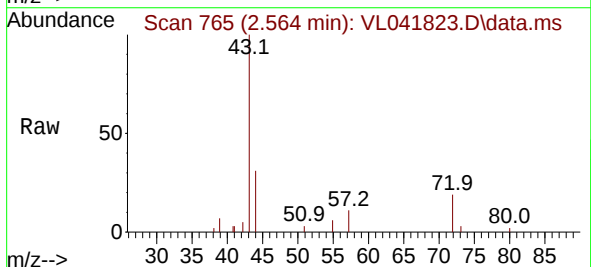
Acq: 19 Dec 2024 16:34

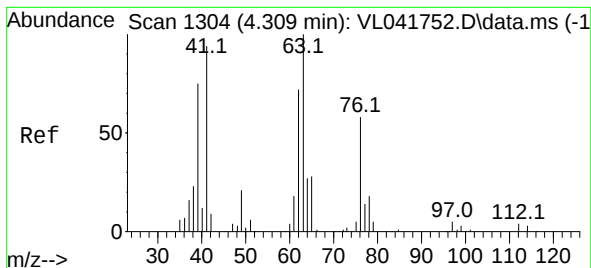
Tgt Ion: 43 Resp: 3011

Ion Ratio Lower Upper

43 100

72 19.7 16.8 25.2





#39

1,2-Dichloropropane

Concen: 7.557 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.350 min

Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

Instrument :

MSVOA_L

ClientSampleId :

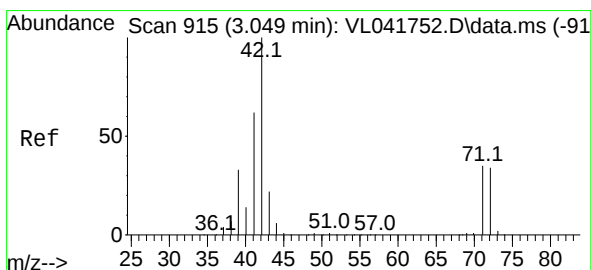
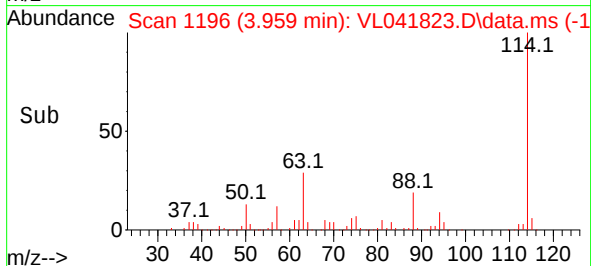
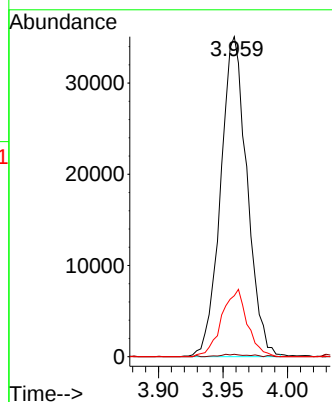
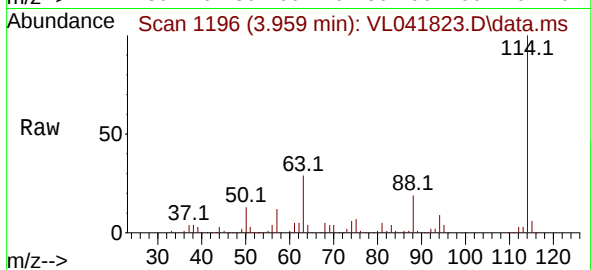
Tgt Ion: 63 Resp: 50025

Ion Ratio Lower Upper

63 100

41 0.7 75.3 112.9#

62 19.0 57.3 85.9#



#41

Tetrahydrofuran

Concen: 0.071 ppbv

RT: 3.069 min Scan# 921

Delta R.T. 0.019 min

Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

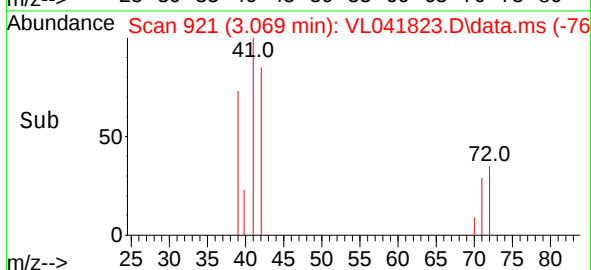
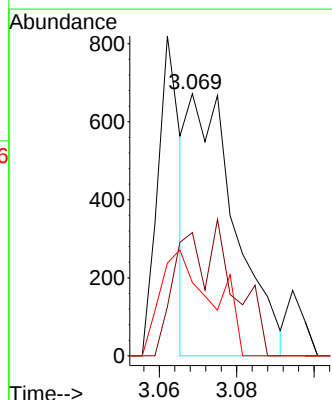
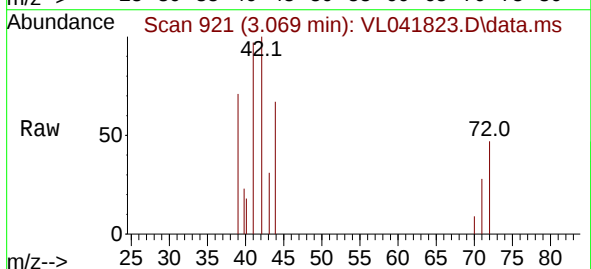
Tgt Ion: 42 Resp: 568

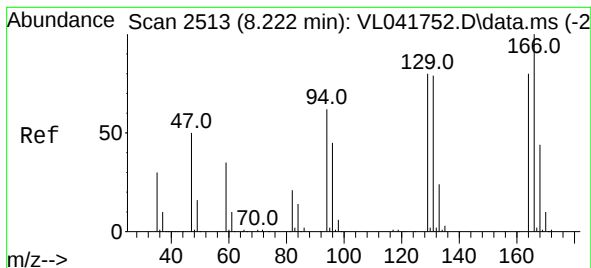
Ion Ratio Lower Upper

42 100

72 58.8 29.1 43.7#

71 44.2 28.4 42.6#





#52

Tetrachloroethene

Concen: 0.060 ppbv

RT: 8.221 min Scan# 2116

Delta R.T. -0.000 min

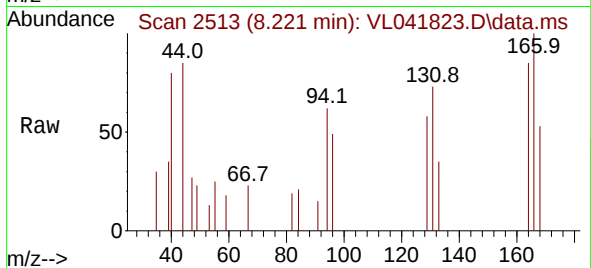
Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 409

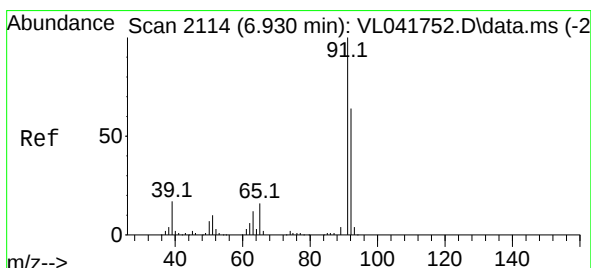
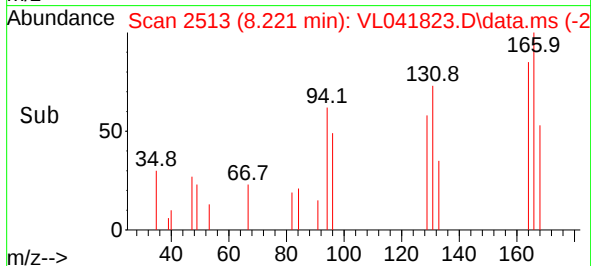
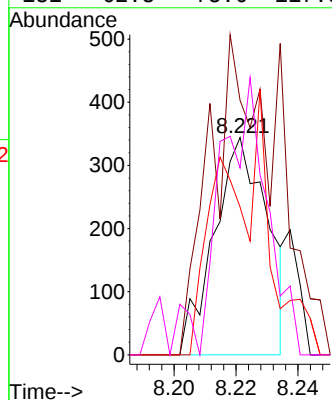
Ion Ratio Lower Upper

164 100

166 117.2 99.8 149.6

129 68.0 79.6 119.4#

131 62.8 78.6 117.8#



#53

Toluene

Concen: 0.352 ppbv

RT: 6.936 min Scan# 2116

Delta R.T. 0.006 min

Lab File: VL041823.D

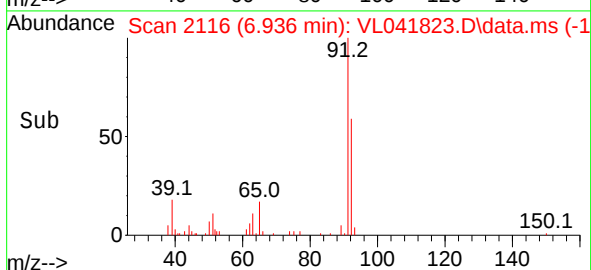
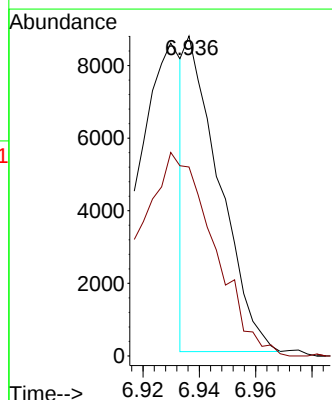
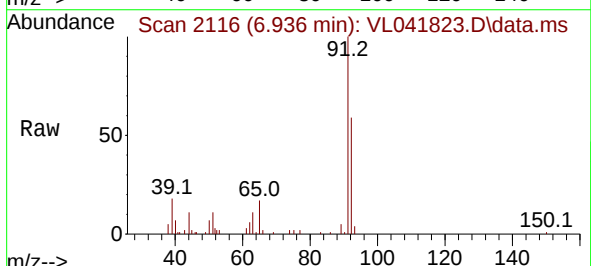
Acq: 19 Dec 2024 16:34

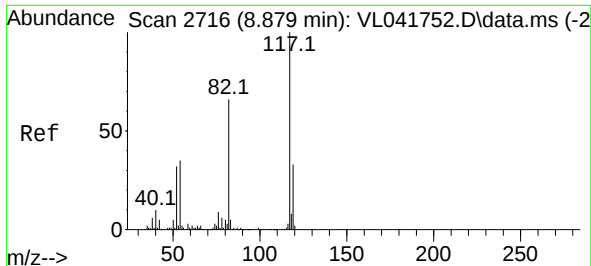
Tgt Ion: 91 Resp: 7313

Ion Ratio Lower Upper

91 100

92 0.0 47.9 71.9#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2716

Delta R.T. -0.000 min

Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

Instrument :

MSVOA_L

ClientSampleId :

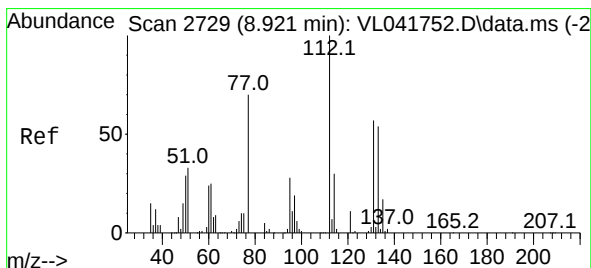
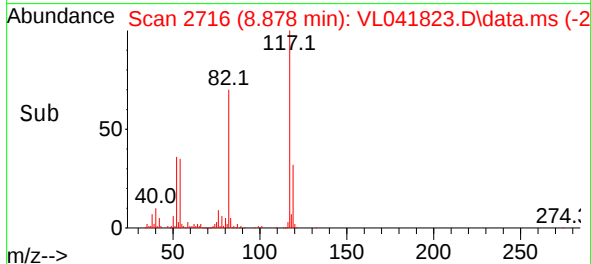
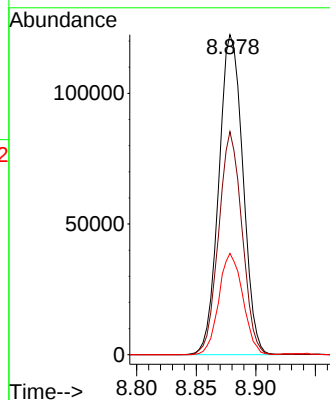
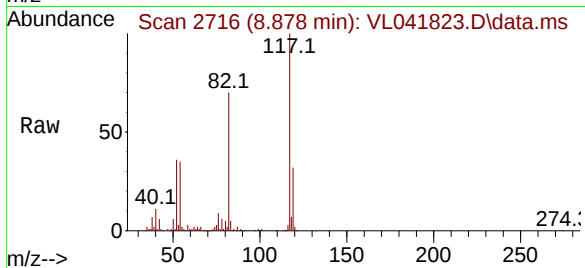
Tgt Ion:117 Resp: 171967

Ion Ratio Lower Upper

117 100

82 67.8 53.8 80.8

119 31.6 26.7 40.1



#57

Chlorobenzene

Concen: 0.065 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. -0.000 min

Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

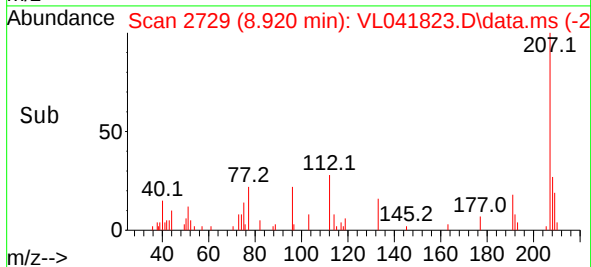
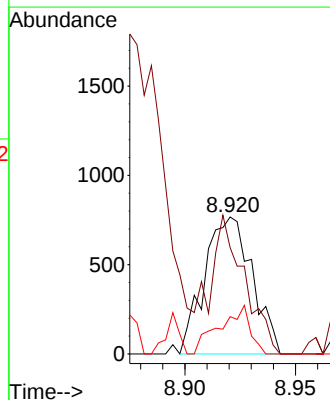
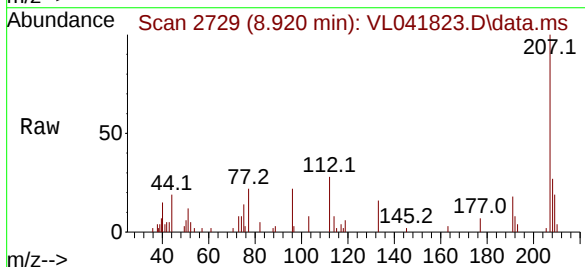
Tgt Ion:112 Resp: 1146

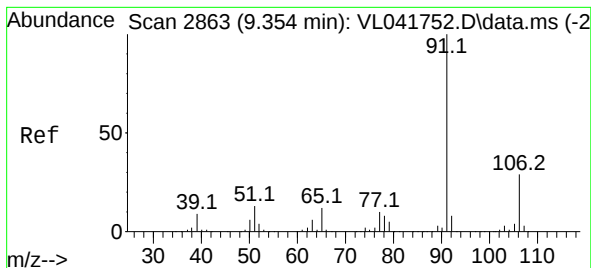
Ion Ratio Lower Upper

112 100

77 77.7 57.4 86.0

114 27.2 27.4 33.4#





#58

Ethyl Benzene

Concen: 0.154 ppbv

RT: 9.351 min Scan# 2862

Delta R.T. -0.004 min

Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

Instrument :

MSVOA_L

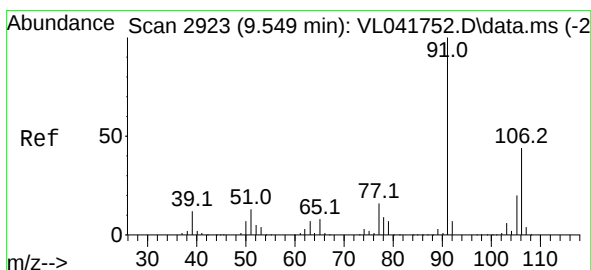
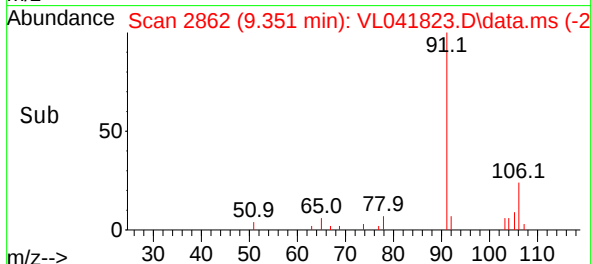
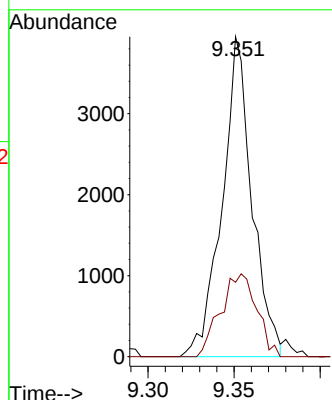
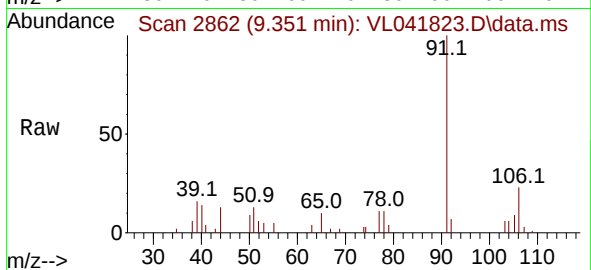
ClientSampleId :

Tgt Ion: 91 Resp: 4756

Ion Ratio Lower Upper

91 100

106 23.2 23.5 35.3#



#59

m/p-Xylene

Concen: 0.122 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL041823.D

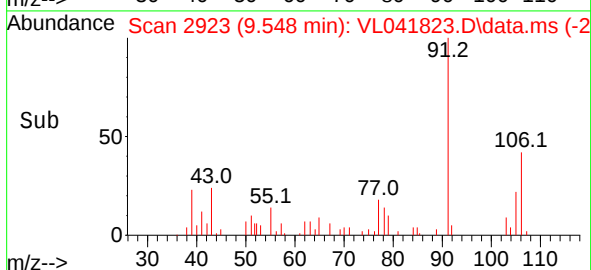
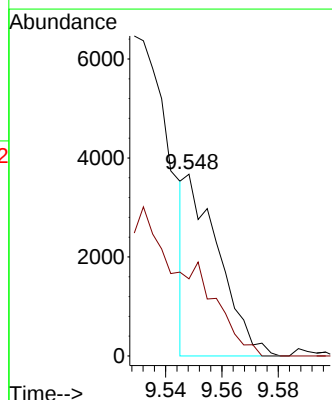
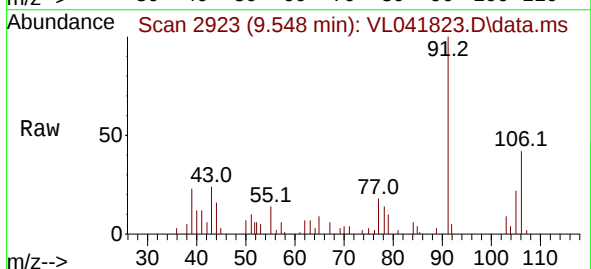
Acq: 19 Dec 2024 16:34

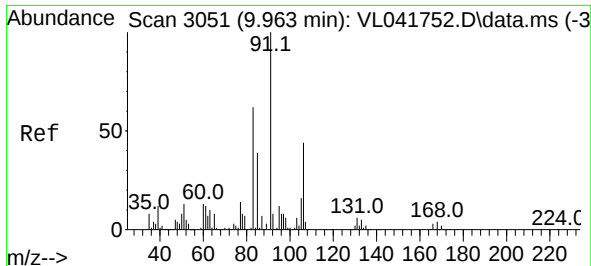
Tgt Ion: 91 Resp: 3033

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0

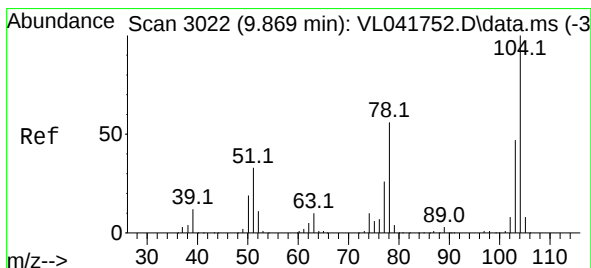
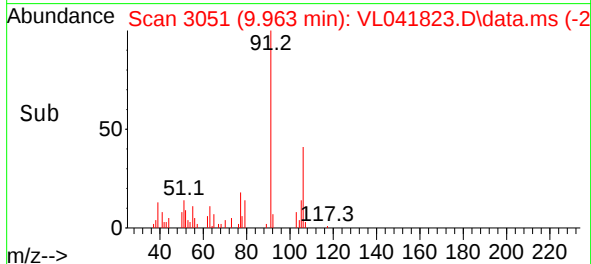
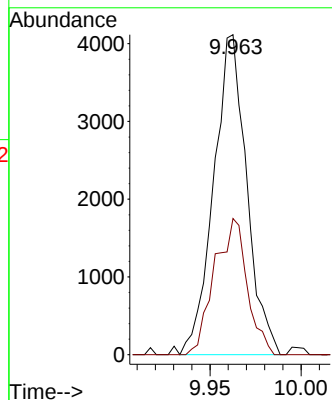
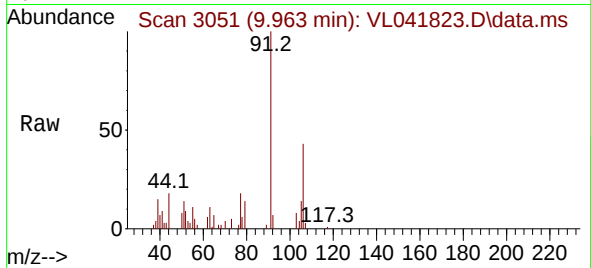




#60
o-Xylene
Concen: 0.208 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL041823.D
Acq: 19 Dec 2024 16:34

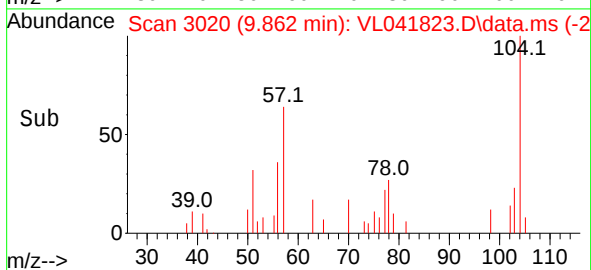
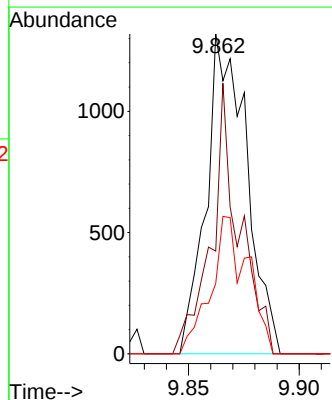
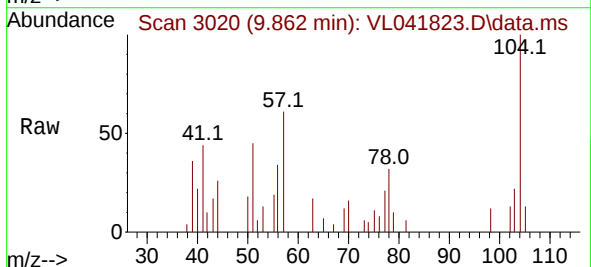
Instrument :
MSVOA_L
ClientSampleId :

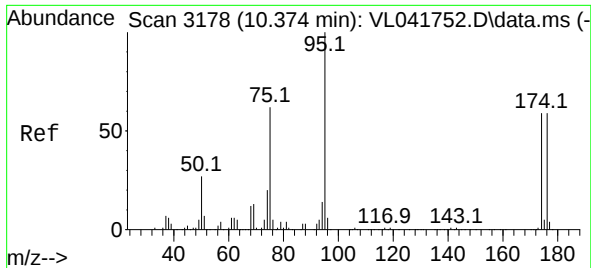
Tgt Ion: 91 Resp: 5184
Ion Ratio Lower Upper
91 100
106 42.0 21.1 63.4



#61
Styrene
Concen: 0.155 ppbv
RT: 9.862 min Scan# 3020
Delta R.T. -0.007 min
Lab File: VL041823.D
Acq: 19 Dec 2024 16:34

Tgt Ion: 104 Resp: 1668
Ion Ratio Lower Upper
104 100
78 58.4 43.8 65.6
103 39.5 37.8 56.6





#68

1-Bromo-4-Fluorobenzene

Concen: 9.797 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.000 min

Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

Instrument :

MSVOA_1

ClientSampleId :

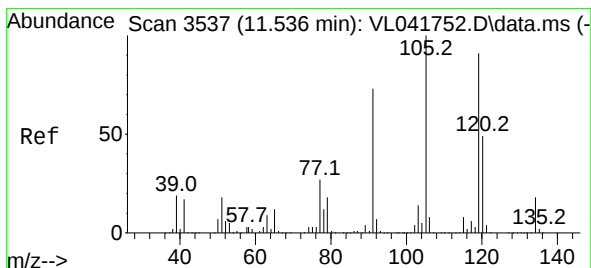
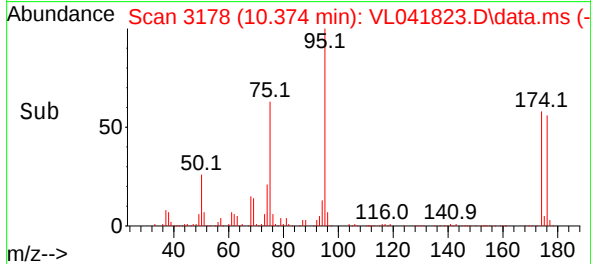
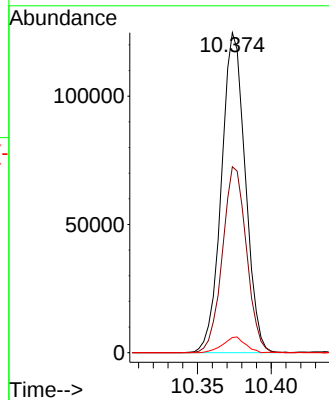
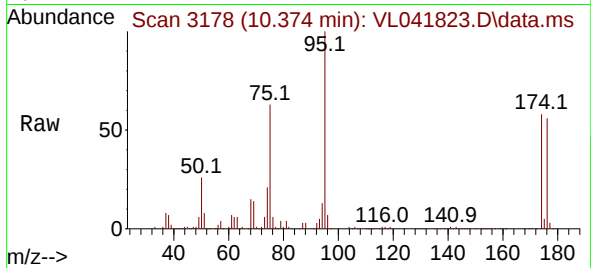
Tgt Ion: 95 Resp: 140400

Ion Ratio Lower Upper

95 100

174 58.6 47.6 71.4

175 4.7 3.7 5.5



#74

1,2,4-Trimethylbenzene

Concen: 0.035 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.004 min

Lab File: VL041823.D

Acq: 19 Dec 2024 16:34

Tgt Ion:105 Resp: 930

Ion Ratio Lower Upper

105 100

120 42.4 39.0 58.4

91 16.1 58.1 87.1#

77 0.0 21.8 32.8#

