

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041799.D
 Acq On : 18 Dec 2024 18:17
 Operator : SY/MD
 Sample : P5293-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC0

Quant Time: Dec 19 07:57:10 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	2.797	49	71492	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.975	114	174715	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	153485	10.000	ppbv	0.02

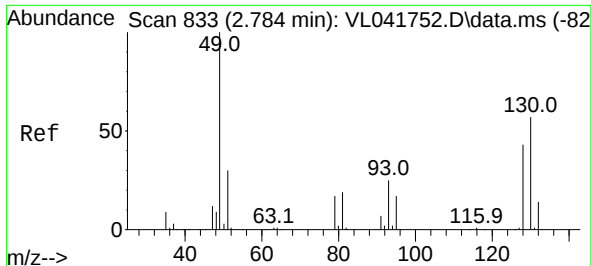
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	133546	10.441	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	4954	0.389	ppbv	98
3) Chlorodifluoromethane	1.470	51	8857	0.760	ppbv #	74
4) Chloromethane	1.538	50	2275	0.457	ppbv	93
9) Propene	1.492	41	46494	9.201	ppbv #	64
10) Heptane	5.004	43	399	0.031	ppbv #	29
11) Trichlorofluoromethane	1.884	101	2734	0.202	ppbv	99
13) Ethanol	1.725	45	20973	50.123	ppbv	96
15) Acetone	1.842	43	72299	5.198	ppbv	92
16) 1,3-Butadiene	1.625	39	9529	1.740	ppbv #	19
17) tert-Butyl alcohol	2.055	59	793	0.057	ppbv #	71
19) Isopropyl Alcohol	1.894	45	10160	1.217	ppbv #	1
20) Methylene Chloride	2.068	84	2867	0.723	ppbv	90
21) Allyl Chloride	2.088	41	399	0.053	ppbv #	48
23) Vinyl Acetate	2.463	43	2010	0.311	ppbv #	64
25) Ethyl Acetate	2.842	43	2156	0.083	ppbv #	75
26) Hexane	2.835	57	2395	0.244	ppbv #	59
29) Chloroform	2.861	83	5485	0.367	ppbv	100
34) 2-Butanone	2.570	43	5913	0.421	ppbv	98
35) Carbon Tetrachloride	3.784	117	633	0.051	ppbv #	65
36) Benzene	3.670	78	4287	0.237	ppbv #	87
37) 1,2-Dichloroethane	3.230	62	393	0.035	ppbv #	82
39) 1,2-Dichloropropane	3.975	63	49659	7.597	ppbv #	19
42) Bromodichloromethane	4.502	83	472	0.036	ppbv #	96
53) Toluene	6.952	91	12028	0.587	ppbv	99
58) Ethyl Benzene	9.545	91	3056	0.111	ppbv	97
60) o-Xylene	9.979	91	1372	0.062	ppbv	75
66) Benzyl Chloride	11.629	91	81	0.030	ppbv #	66
74) 1,2,4-Trimethylbenzene	11.552	105	1239	0.053	ppbv #	61

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

Quant Time: Dec 19 07:57:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSV0A_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSV0A_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

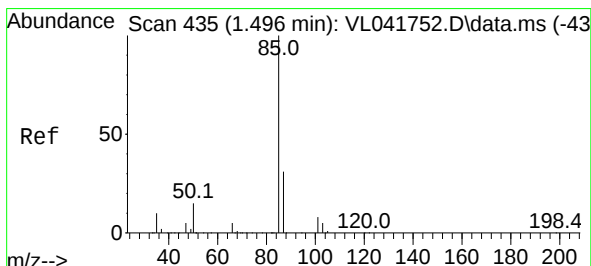
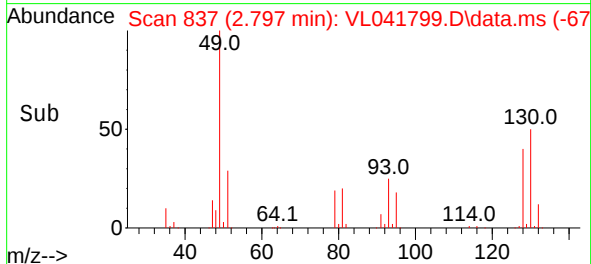
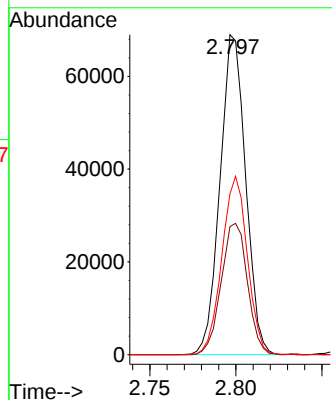
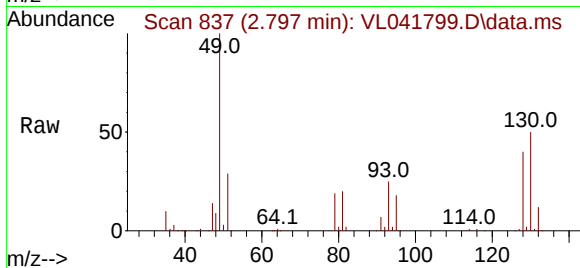




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 841
 Delta R.T. 0.013 min
 Lab File: VL041799.D
 Acq: 18 Dec 2024 18:17

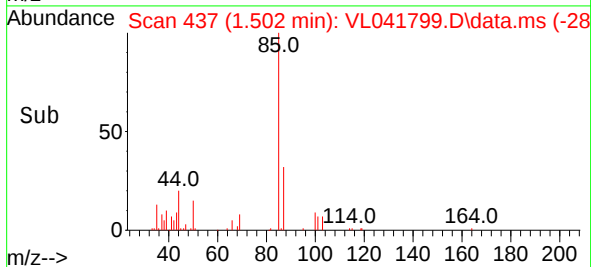
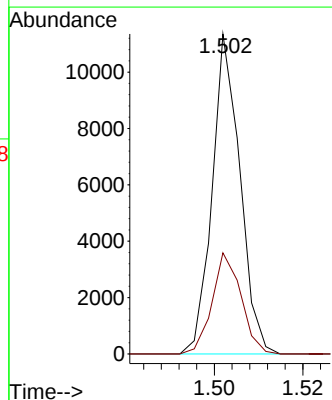
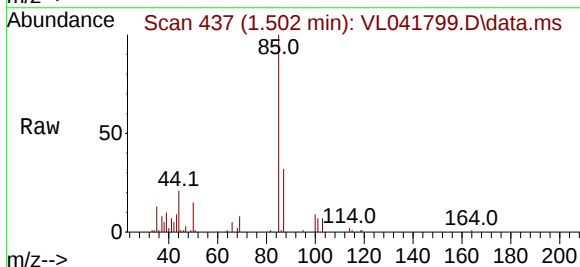
Instrument :
 MSVOA_1
 ClientSampleId :
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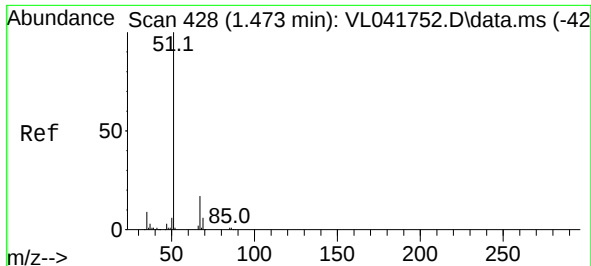
Tgt Ion: 49 Resp: 71492
 Ion Ratio Lower Upper
 49 100
 128 42.1 21.6 64.6
 130 55.4 28.3 85.0



#2
 Dichlorodifluoromethane
 Concen: 0.389 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.006 min
 Lab File: VL041799.D
 Acq: 18 Dec 2024 18:17

Tgt Ion: 85 Resp: 4954
 Ion Ratio Lower Upper
 85 100
 87 31.6 24.5 36.7

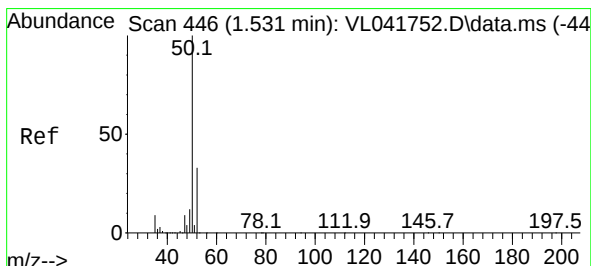
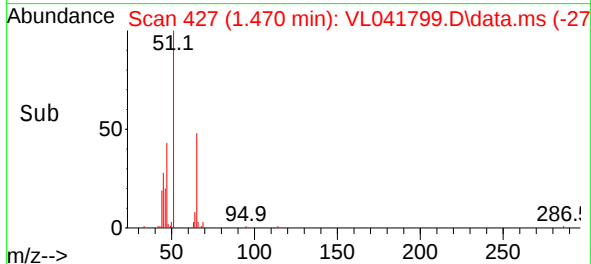
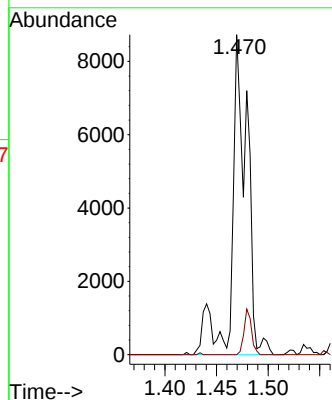
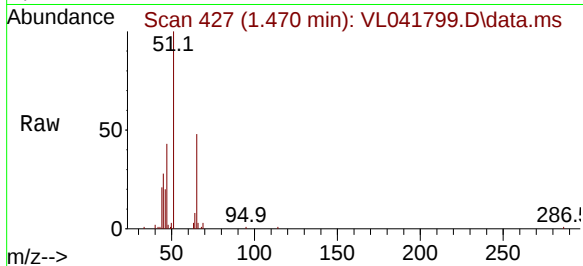




#3
Chlorodifluoromethane
Concen: 0.760 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.004 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

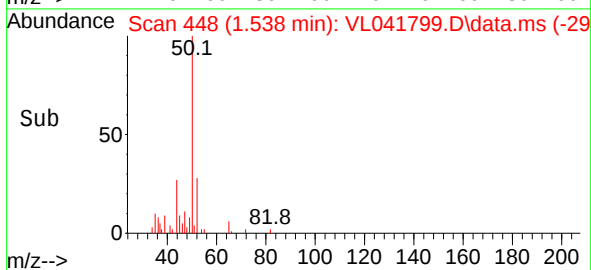
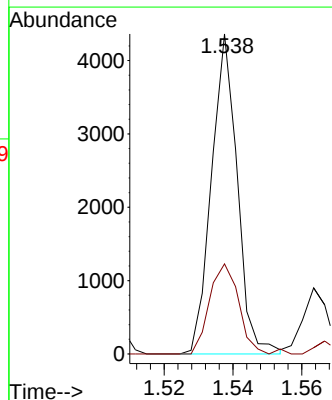
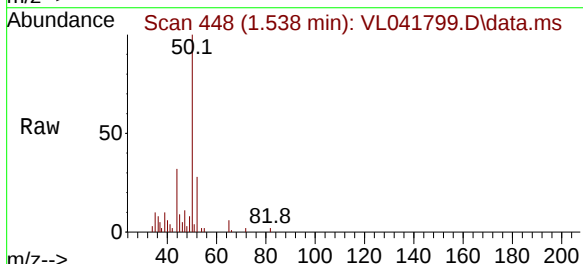
Instrument :
MSVOA_L
ClientSampleId :
C0AC0

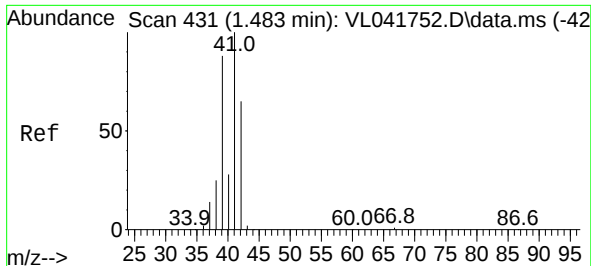
Tgt Ion: 51 Resp: 8857
Ion Ratio Lower Upper
51 100
67 7.0 15.0 22.4#



#4
Chloromethane
Concen: 0.457 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Tgt Ion: 50 Resp: 2275
Ion Ratio Lower Upper
50 100
52 28.5 26.2 39.2





#9

Propene

Concen: 9.201 ppbv

RT: 1.492 min Scan# 41

Delta R.T. 0.009 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

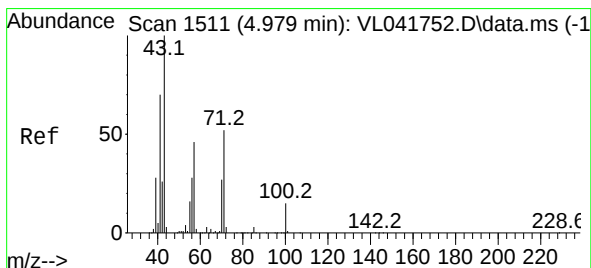
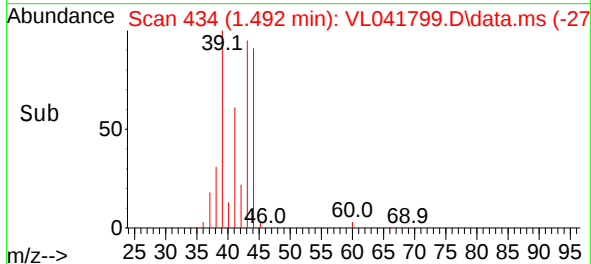
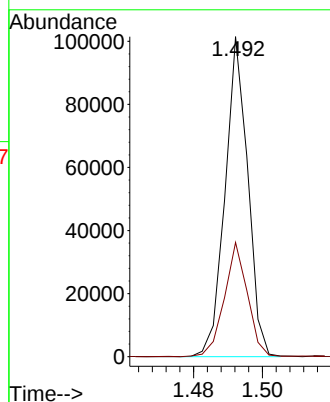
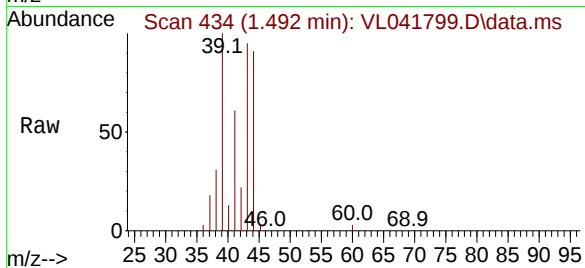
C0AC0

Tgt Ion: 41 Resp: 46494

Ion Ratio Lower Upper

41 100

42 36.9 52.4 78.6#



#10

Heptane

Concen: 0.031 ppbv

RT: 5.004 min Scan# 1519

Delta R.T. 0.025 min

Lab File: VL041799.D

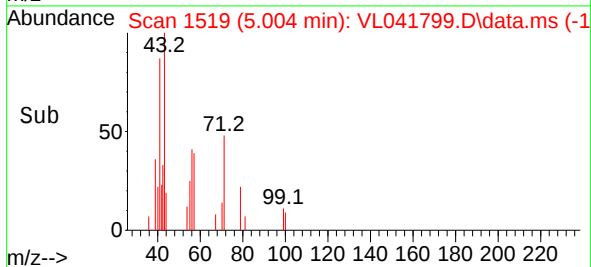
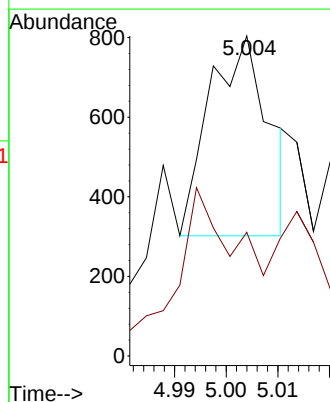
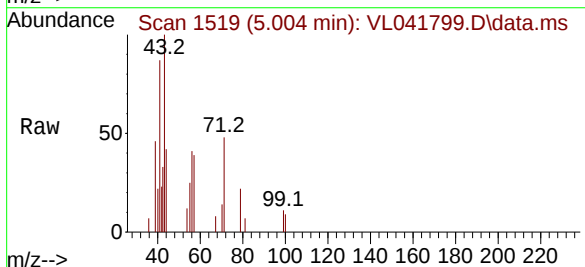
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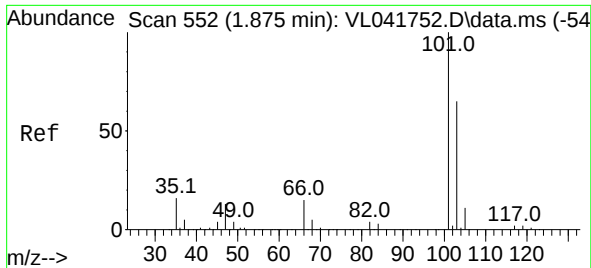
Tgt Ion: 43 Resp: 399

Ion Ratio Lower Upper

43 100

57 0.0 38.5 57.7#

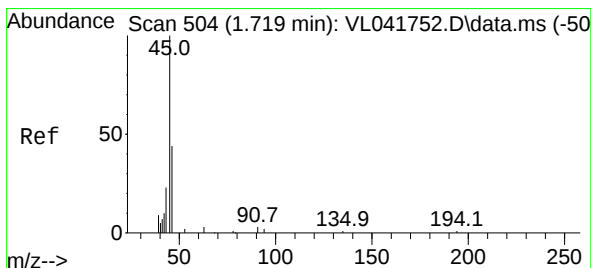
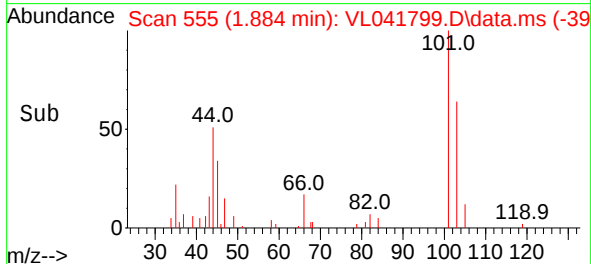
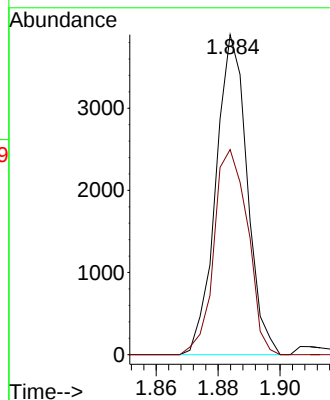
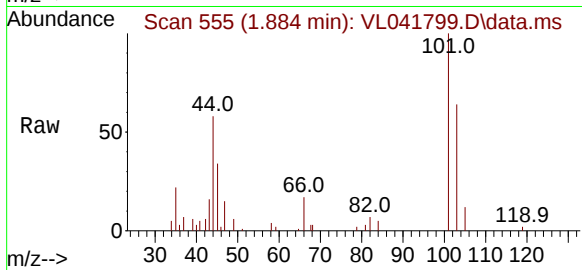




#11
 Trichlorofluoromethane
 Concen: 0.202 ppbv
 RT: 1.884 min Scan# 51
 Delta R.T. 0.009 min
 Lab File: VL041799.D
 Acq: 18 Dec 2024 18:17

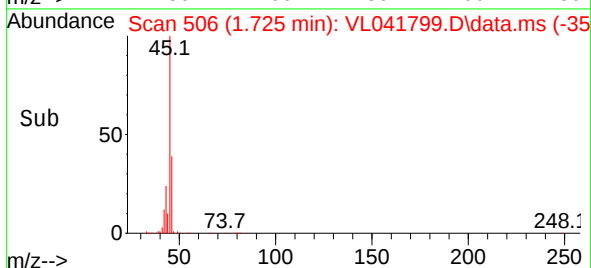
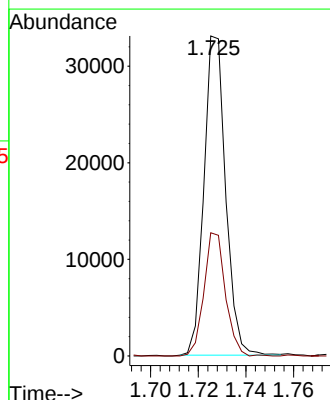
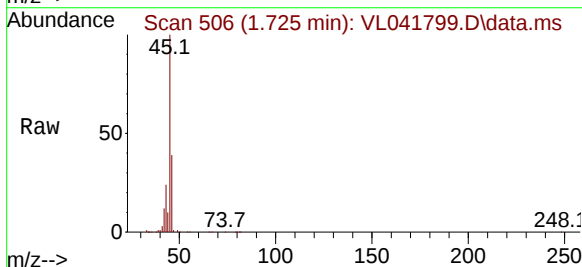
Instrument :
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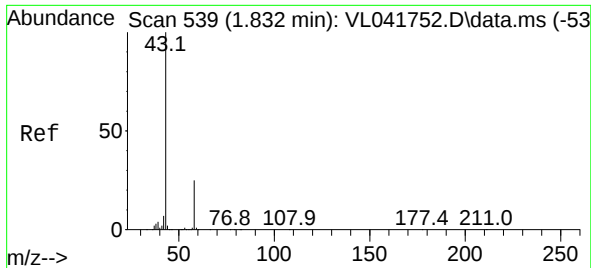
Tgt Ion:101 Resp: 2734
 Ion Ratio Lower Upper
 101 100
 103 64.1 51.8 77.8



#13
 Ethanol
 Concen: 50.123 ppbv
 RT: 1.725 min Scan# 506
 Delta R.T. 0.006 min
 Lab File: VL041799.D
 Acq: 18 Dec 2024 18:17

Tgt Ion: 45 Resp: 20973
 Ion Ratio Lower Upper
 45 100
 46 38.6 16.4 65.8

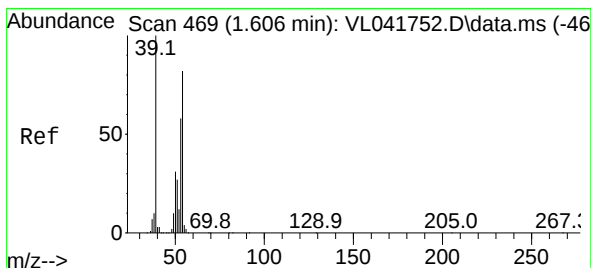
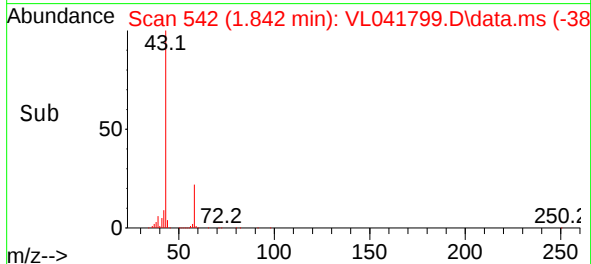
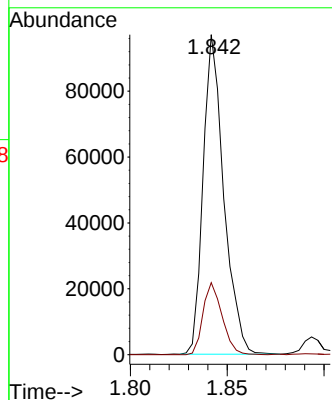
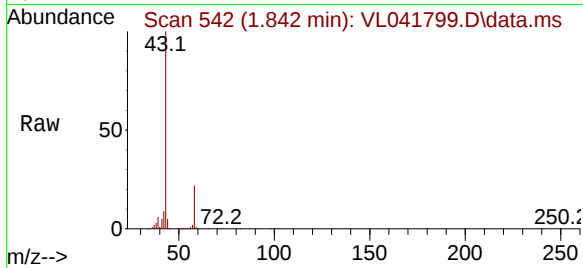




#15
Acetone
Concen: 5.198 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.009 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

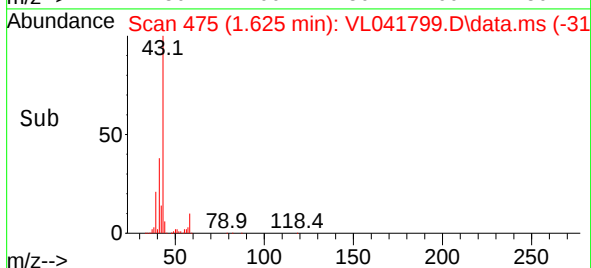
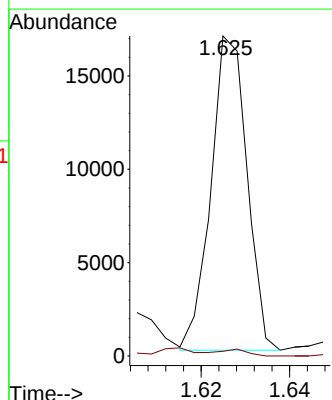
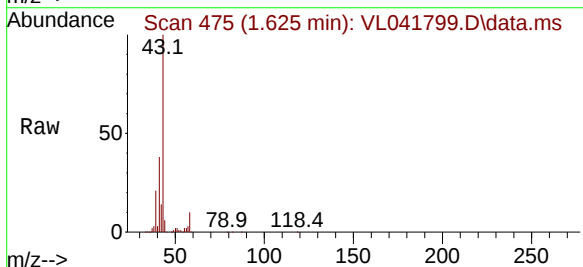
Instrument :
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ClientSampleId :
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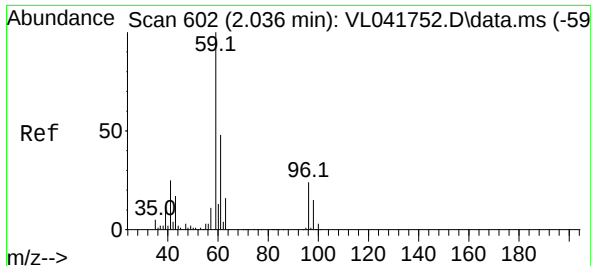
Tgt Ion: 43 Resp: 72299
Ion Ratio Lower Upper
43 100
58 20.8 19.7 29.5



#16
1,3-Butadiene
Concen: 1.740 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.019 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Tgt Ion: 39 Resp: 9529
Ion Ratio Lower Upper
39 100
54 4.8 58.4 87.6#

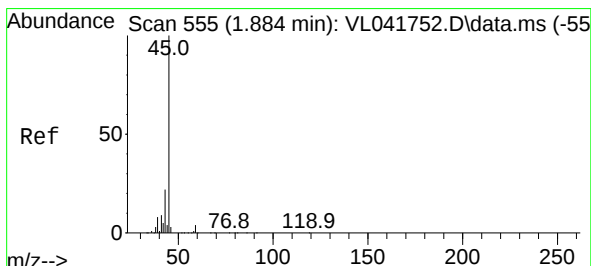
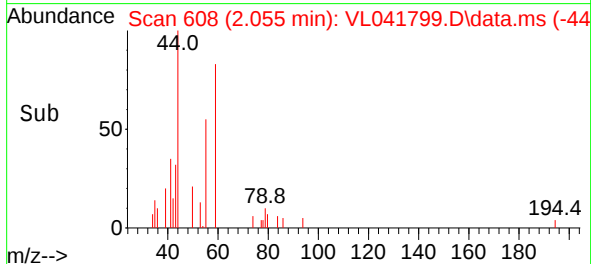
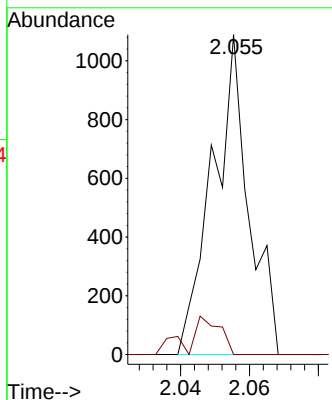
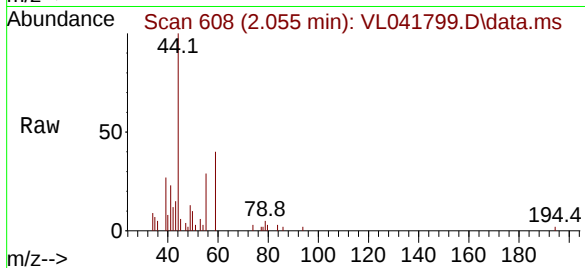




#17
tert-Butyl alcohol
Concen: 0.057 ppbv
RT: 2.055 min Scan# 602
Delta R.T. 0.019 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

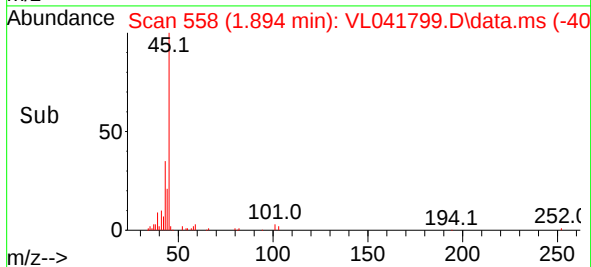
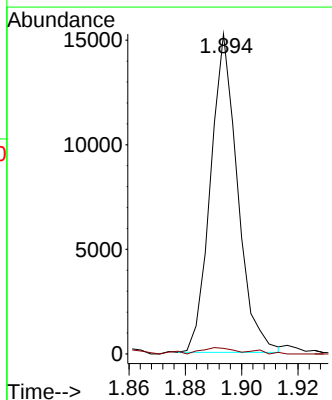
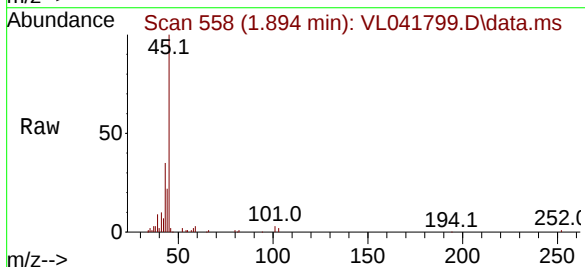
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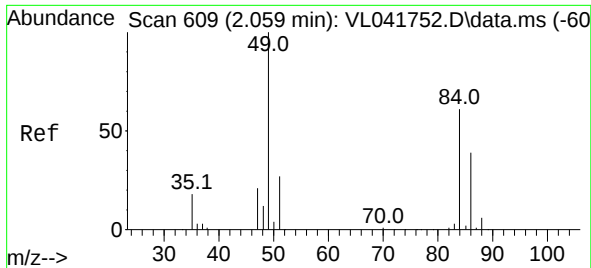
Tgt Ion: 59 Resp: 793
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#19
Isopropyl Alcohol
Concen: 1.217 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.009 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Tgt Ion: 45 Resp: 10160
Ion Ratio Lower Upper
45 100
58 147.9 33.3 49.9#





#20

Methylene Chloride

Concen: 0.723 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

C0AC0

Tgt Ion: 84 Resp: 2867

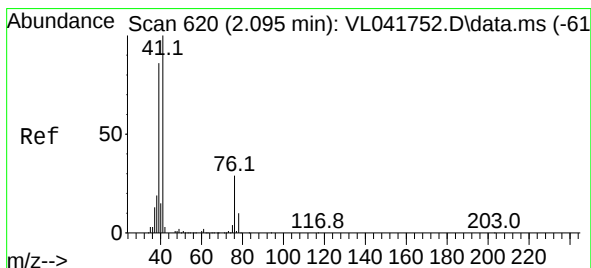
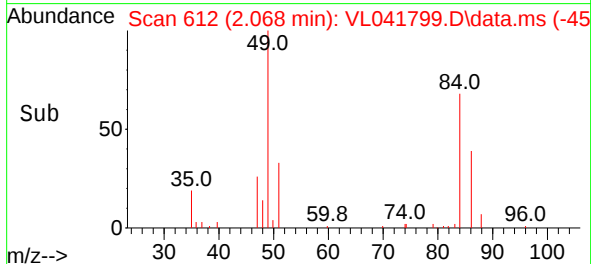
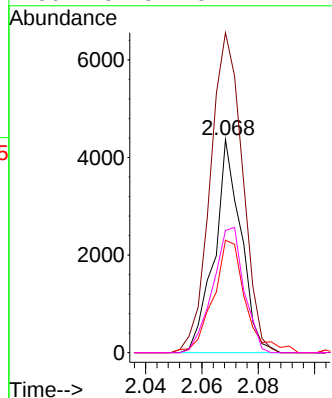
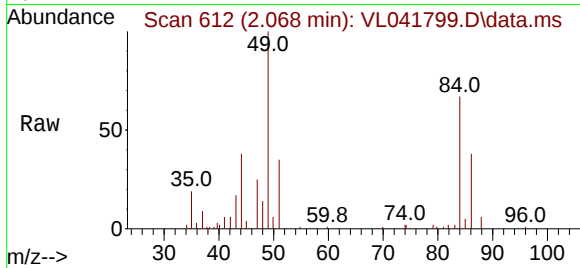
Ion Ratio Lower Upper

84 100

49 150.1 132.6 198.8

51 51.2 37.6 56.4

86 57.3 51.4 77.0



#21

Allyl Chloride

Concen: 0.053 ppbv

RT: 2.088 min Scan# 618

Delta R.T. -0.007 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

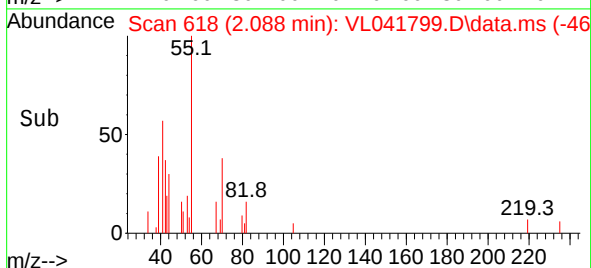
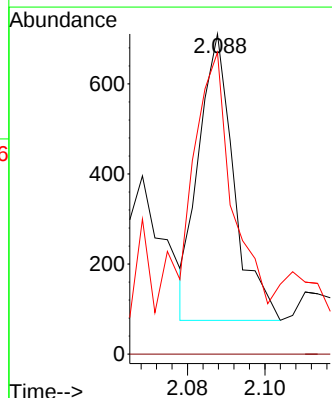
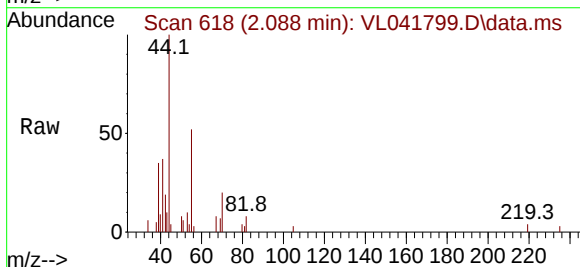
Tgt Ion: 41 Resp: 399

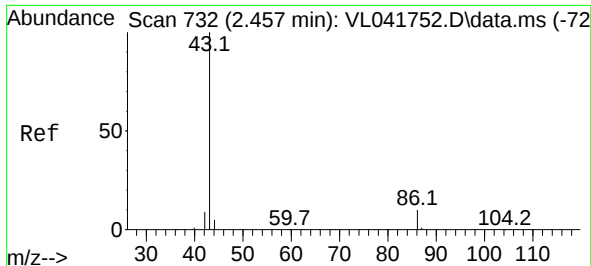
Ion Ratio Lower Upper

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76 0.0 22.3 33.5#

39 133.8 69.2 103.8#

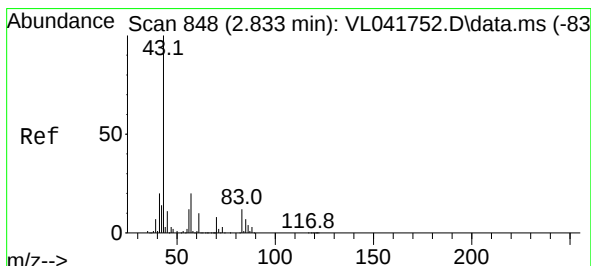
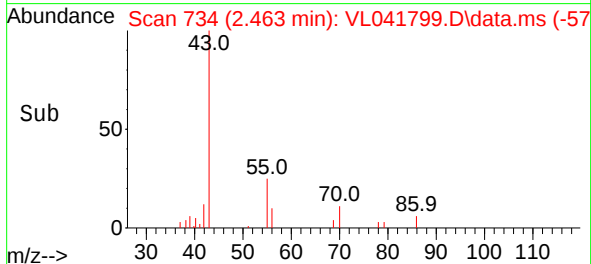
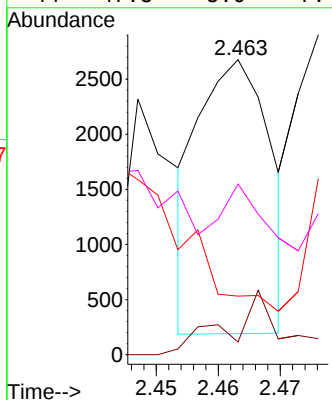
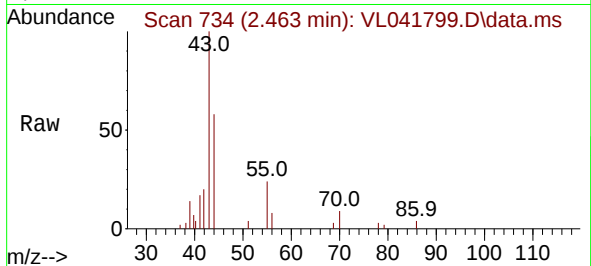




#23
Vinyl Acetate
Concen: 0.311 ppbv
RT: 2.463 min Scan# 741
Delta R.T. 0.006 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

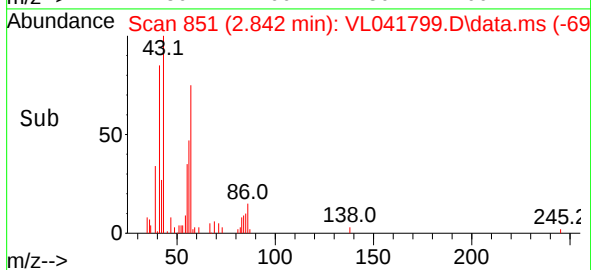
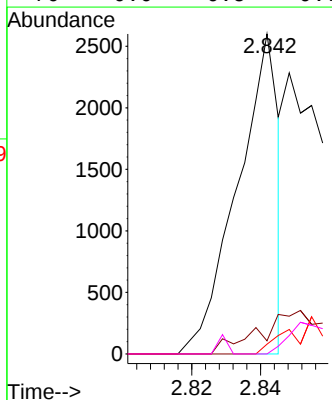
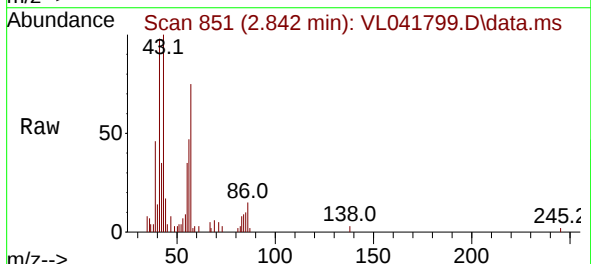
Instrument :
MSVOA_L
ClientSampleId :
C0AC0

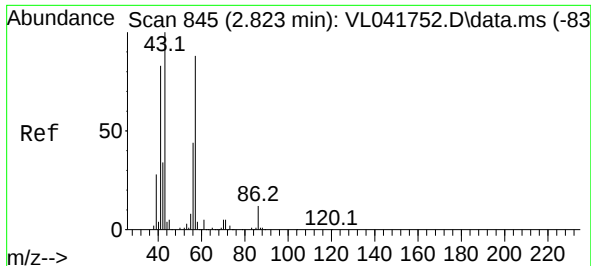
Tgt Ion:	43	Resp:	2010
Ion	Ratio	Lower	Upper
43	100		
86	6.2	6.6	10.0#
42	13.4	8.2	12.2#
44	47.8	5.0	7.4#



#25
Ethyl Acetate
Concen: 0.083 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.009 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Tgt Ion:	43	Resp:	2156
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	0.0	7.0	10.6#
70	0.0	6.5	9.7#





#26

Hexane

Concen: 0.244 ppbv

RT: 2.835 min Scan# 845

Delta R.T. 0.013 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

C0AC0

Tgt Ion: 57 Resp: 2395

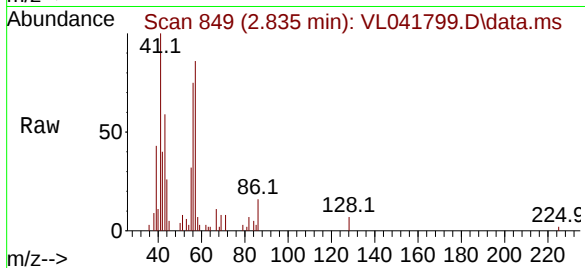
Ion Ratio Lower Upper

57 100

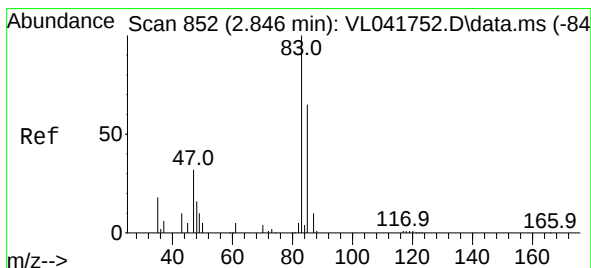
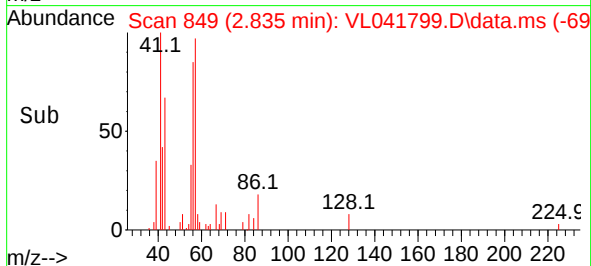
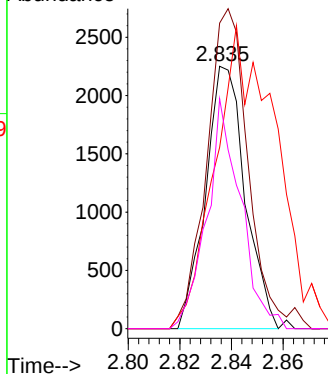
41 128.9 79.6 119.4#

43 178.1 211.0 316.6#

56 74.8 42.6 63.8#



Abundance



#29

Chloroform

Concen: 0.367 ppbv

RT: 2.861 min Scan# 857

Delta R.T. 0.016 min

Lab File: VL041799.D

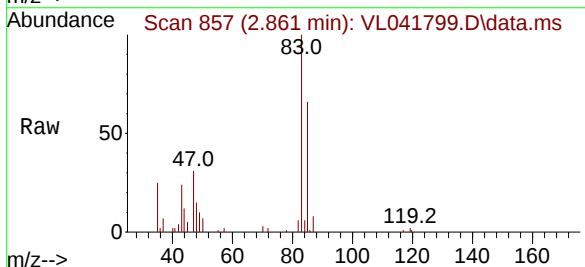
Acq: 18 Dec 2024 18:17

Tgt Ion: 83 Resp: 5485

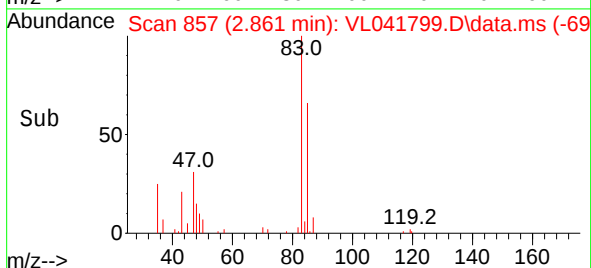
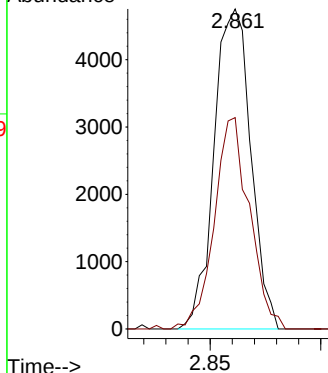
Ion Ratio Lower Upper

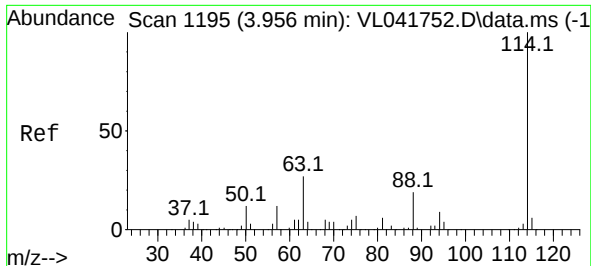
83 100

85 64.5 51.8 77.6



Abundance





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1195

Delta R.T. 0.019 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

C0AC0

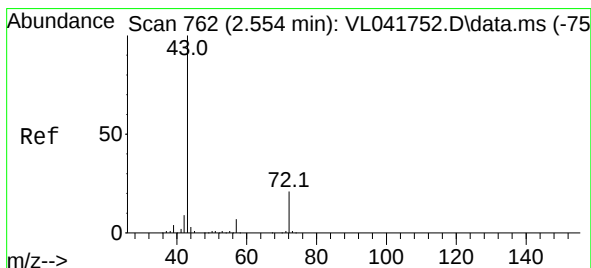
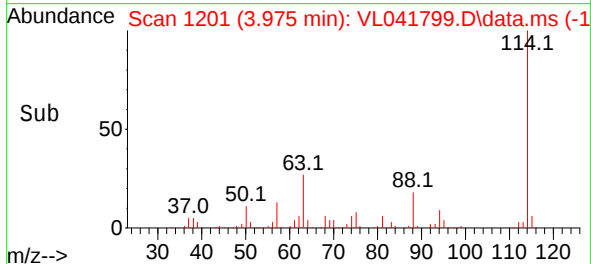
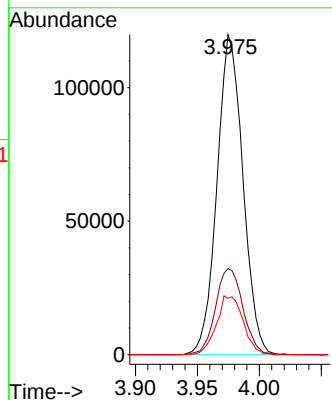
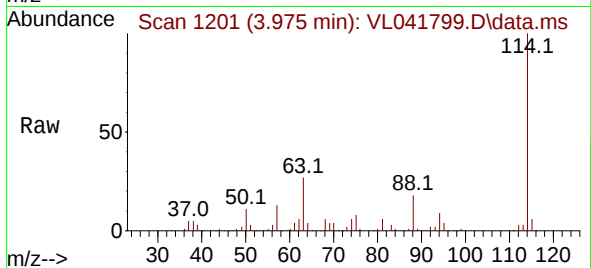
Tgt Ion:114 Resp: 174715

Ion Ratio Lower Upper

114 100

63 28.4 21.8 32.8

88 18.9 14.8 22.2



#34

2-Butanone

Concen: 0.421 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL041799.D

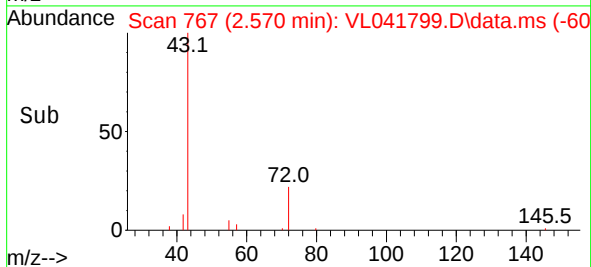
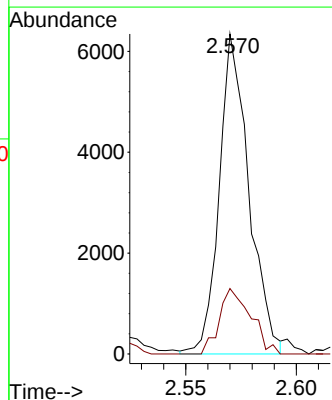
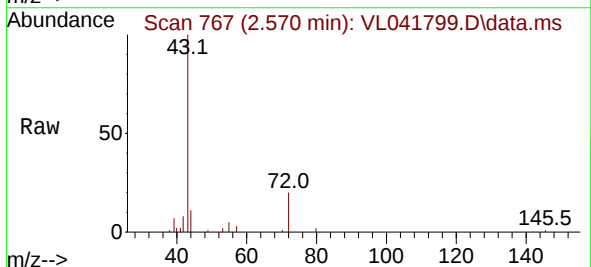
Acq: 18 Dec 2024 18:17

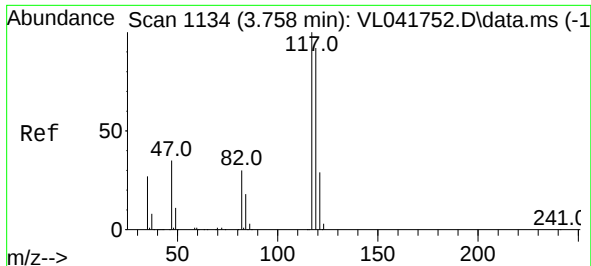
Tgt Ion: 43 Resp: 5913

Ion Ratio Lower Upper

43 100

72 21.8 16.8 25.2

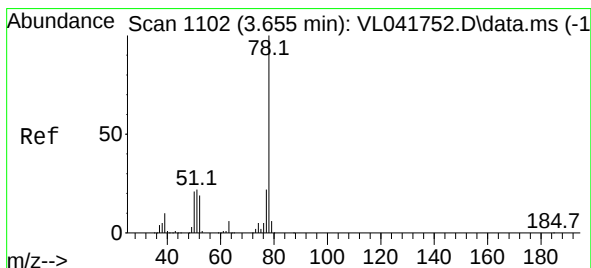
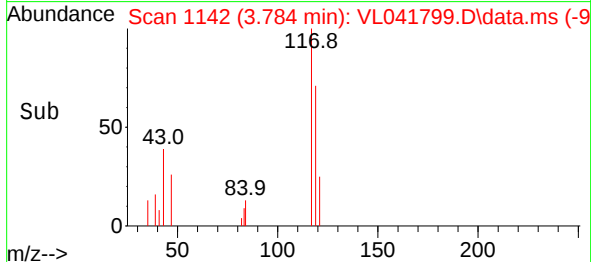
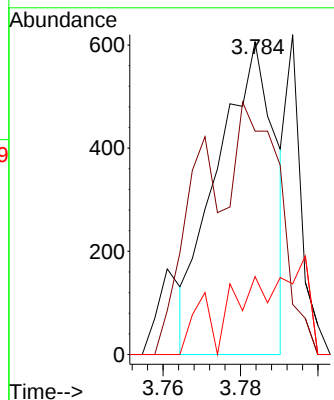
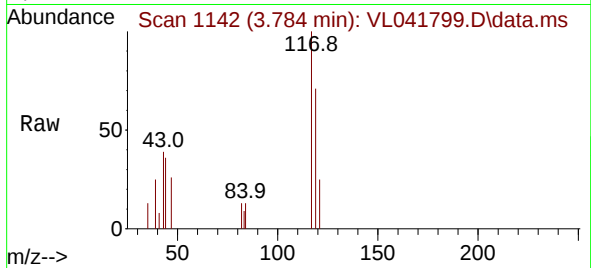




#35
Carbon Tetrachloride
Concen: 0.051 ppbv
RT: 3.784 min Scan# 1134
Delta R.T. 0.025 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

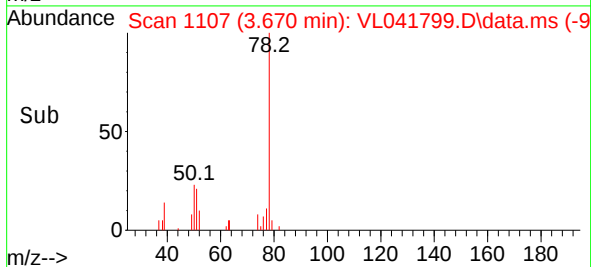
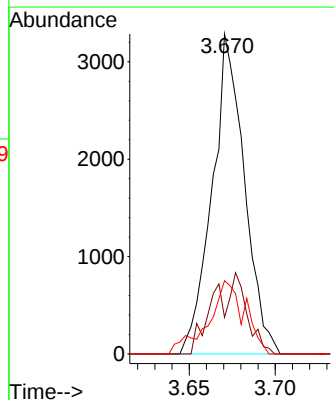
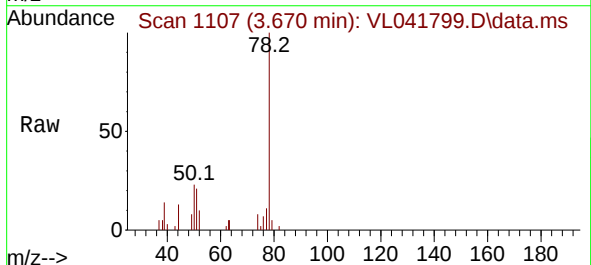
Instrument :
MSVOA_L
ClientSampleId :
C0AC0

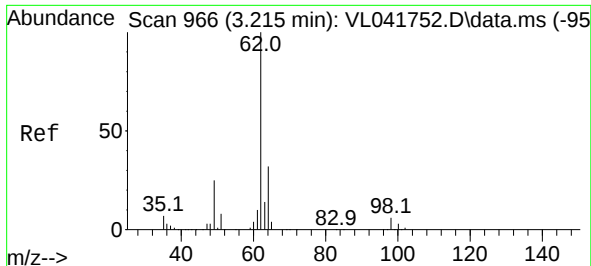
Tgt Ion:117 Resp: 633
Ion Ratio Lower Upper
117 100
119 49.7 73.7 110.5#
121 31.8 23.0 34.4



#36
Benzene
Concen: 0.237 ppbv
RT: 3.670 min Scan# 1107
Delta R.T. 0.016 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Tgt Ion: 78 Resp: 4287
Ion Ratio Lower Upper
78 100
77 11.4 17.8 26.6#
50 22.9 17.2 25.8





#37

1,2-Dichloroethane

Concen: 0.035 ppbv

RT: 3.230 min Scan# 91

Delta R.T. 0.016 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

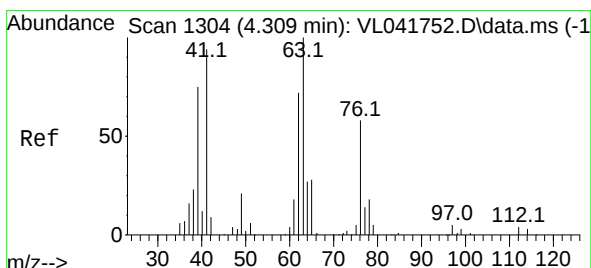
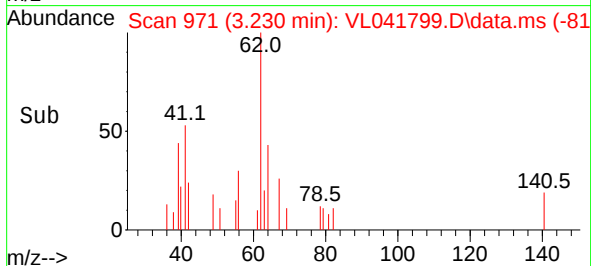
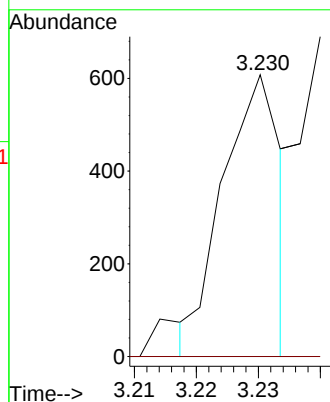
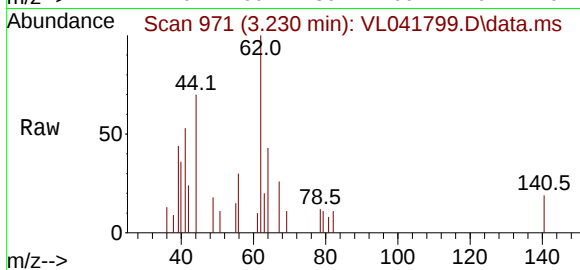
C0AC0

Tgt Ion: 62 Resp: 393

Ion Ratio Lower Upper

62 100

98 0.0 4.7 7.1#



#39

1,2-Dichloropropane

Concen: 7.597 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. -0.334 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

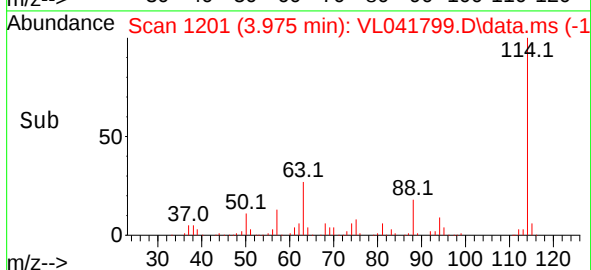
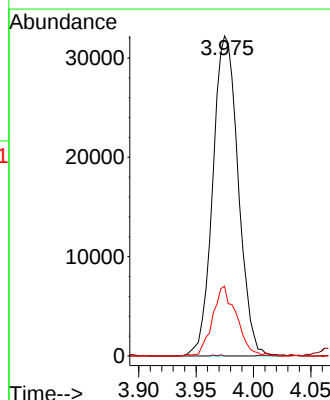
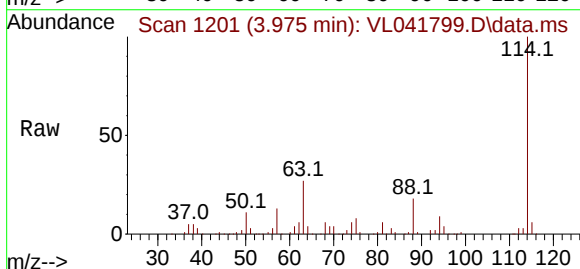
Tgt Ion: 63 Resp: 49659

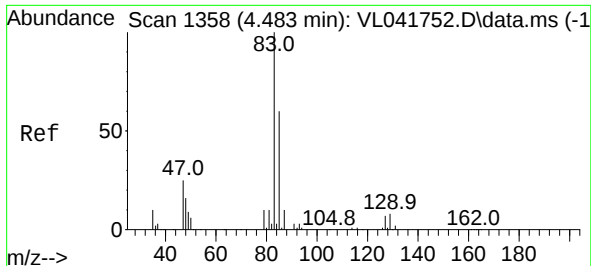
Ion Ratio Lower Upper

63 100

41 0.0 75.3 112.9#

62 21.8 57.3 85.9#





#42

Bromodichloromethane

Concen: 0.036 ppbv

RT: 4.502 min Scan# 11

Delta R.T. 0.019 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

C0AC0

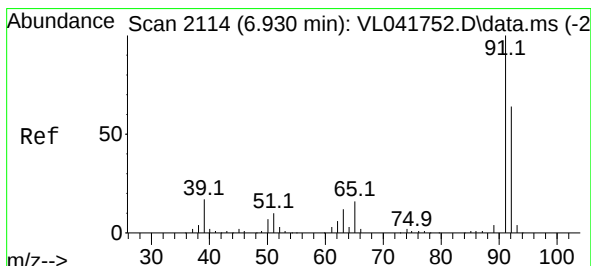
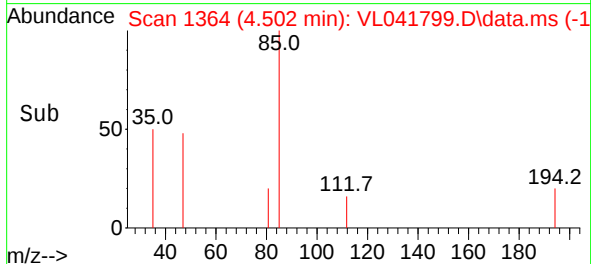
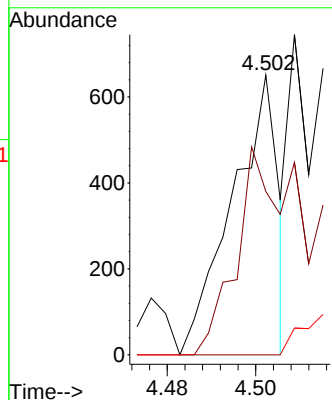
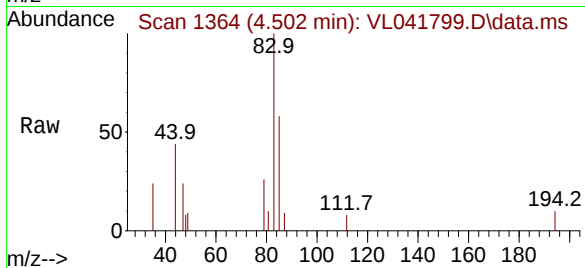
Tgt Ion: 83 Resp: 472

Ion Ratio Lower Upper

83 100

85 58.4 48.0 72.0

127 0.0 5.8 8.8#



#53

Toluene

Concen: 0.587 ppbv

RT: 6.952 min Scan# 2121

Delta R.T. 0.022 min

Lab File: VL041799.D

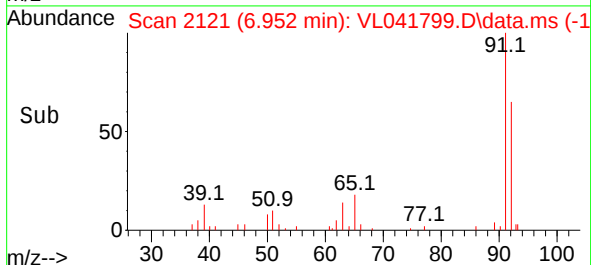
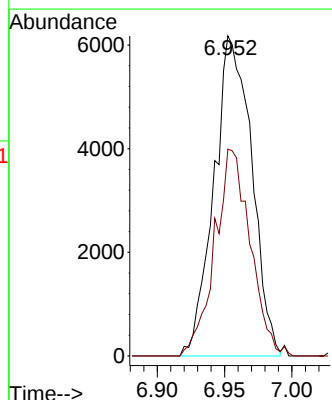
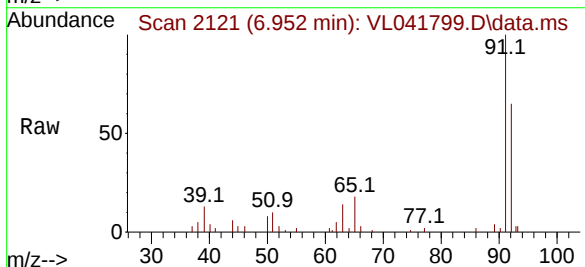
Acq: 18 Dec 2024 18:17

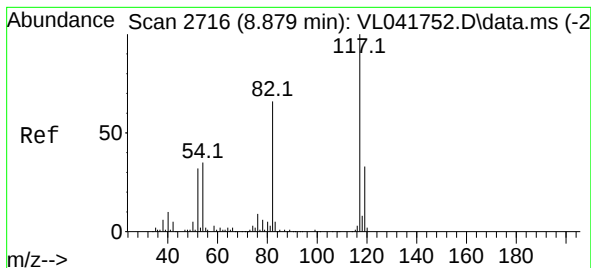
Tgt Ion: 91 Resp: 12028

Ion Ratio Lower Upper

91 100

92 61.0 47.9 71.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

C0AC0

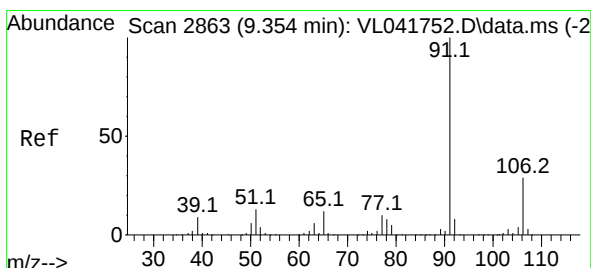
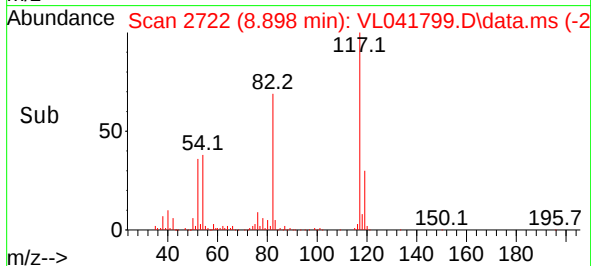
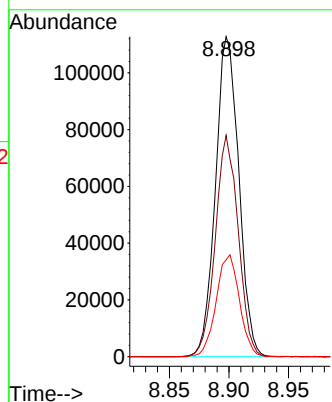
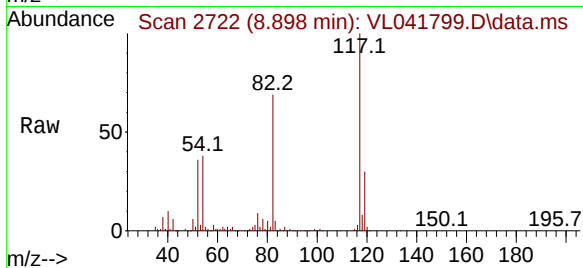
Tgt Ion:117 Resp: 153485

Ion Ratio Lower Upper

117 100

82 68.0 53.8 80.8

119 31.9 26.7 40.1



#58

Ethyl Benzene

Concen: 0.111 ppbv

RT: 9.545 min Scan# 2922

Delta R.T. 0.191 min

Lab File: VL041799.D

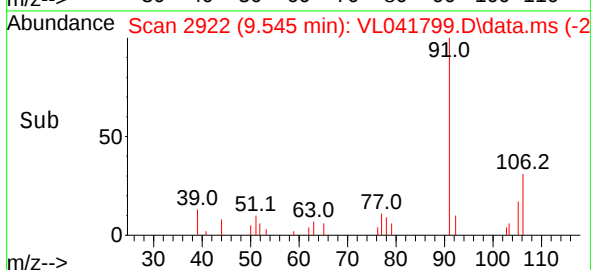
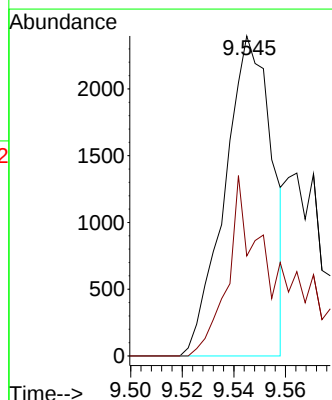
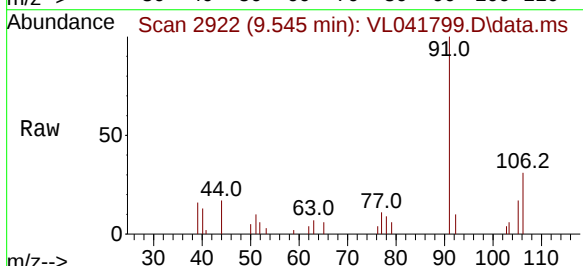
Acq: 18 Dec 2024 18:17

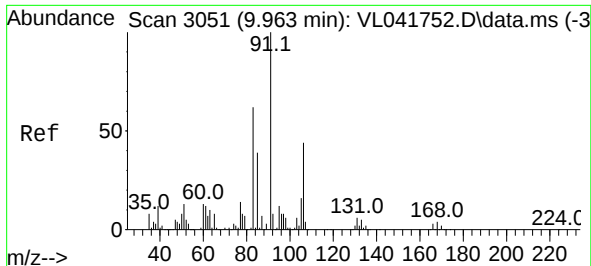
Tgt Ion: 91 Resp: 3056

Ion Ratio Lower Upper

91 100

106 31.2 23.5 35.3

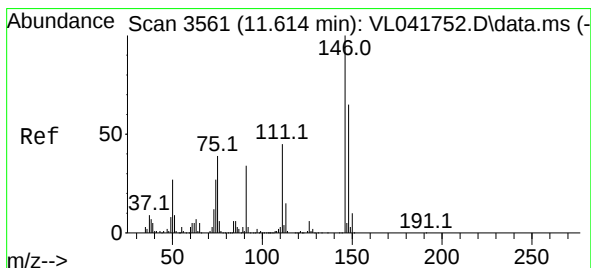
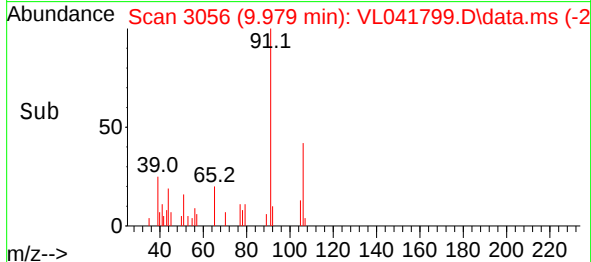
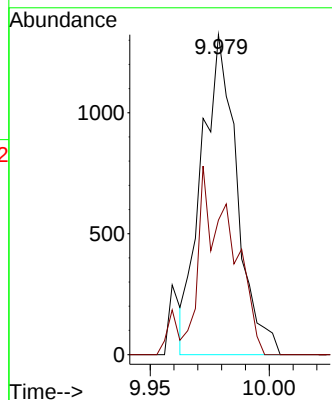
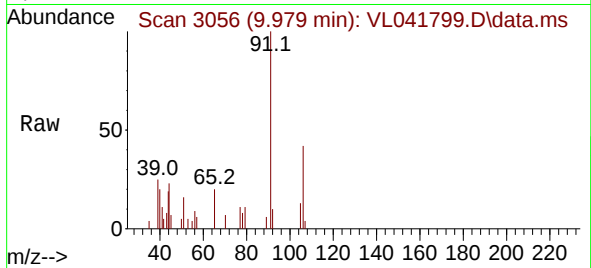




#60
o-Xylene
Concen: 0.062 ppbv
RT: 9.979 min Scan# 3051
Delta R.T. 0.016 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

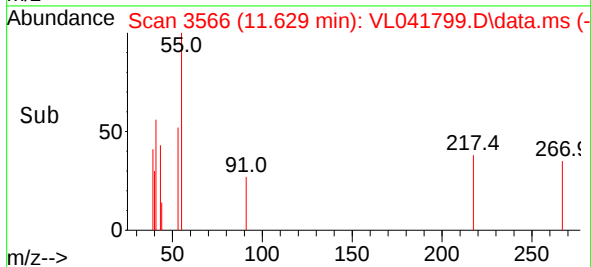
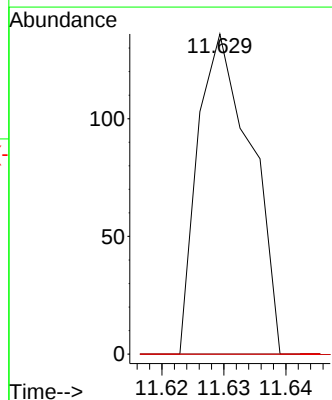
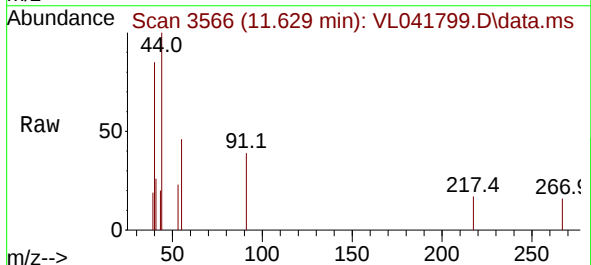
Instrument :
MSVOA_L
ClientSampleId :
C0AC0

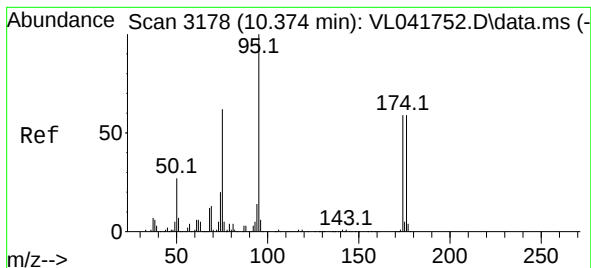
Tgt Ion: 91 Resp: 1372
Ion Ratio Lower Upper
91 100
106 58.5 21.1 63.4



#66
Benzyl Chloride
Concen: 0.030 ppbv
RT: 11.629 min Scan# 3566
Delta R.T. 0.016 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Tgt Ion: 91 Resp: 81
Ion Ratio Lower Upper
91 100
126 0.0 13.9 20.9#
128 0.0 4.4 6.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.441 ppbv

RT: 10.390 min Scan# 3178

Delta R.T. 0.016 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

C0AC0

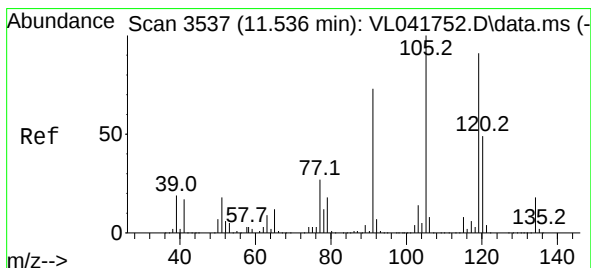
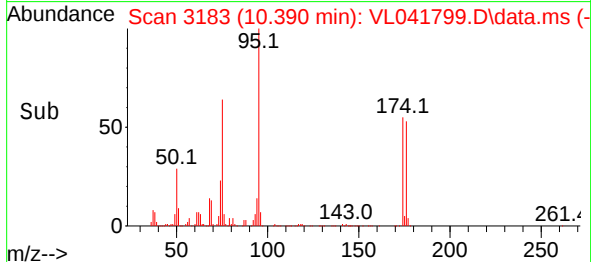
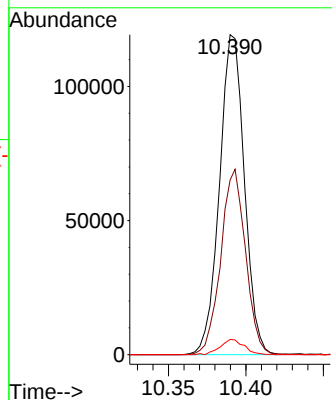
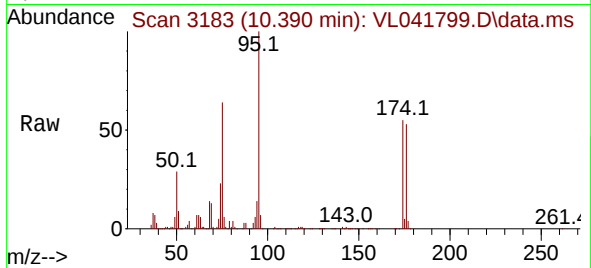
Tgt Ion: 95 Resp: 133546

Ion Ratio Lower Upper

95 100

174 57.6 47.6 71.4

175 4.6 3.7 5.5



#74

1,2,4-Trimethylbenzene

Concen: 0.053 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.016 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Tgt Ion: 105 Resp: 1239

Ion Ratio Lower Upper

105 100

120 53.6 39.0 58.4

91 20.1 58.1 87.1#

77 11.5 21.8 32.8#

