

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041688.D
 Acq On : 7 Nov 2024 21:44
 Operator : SY/MD
 Sample : P4696-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 08 03:53:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Nov 08 01:01:00 2024
 Response via : Initial Calibration

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

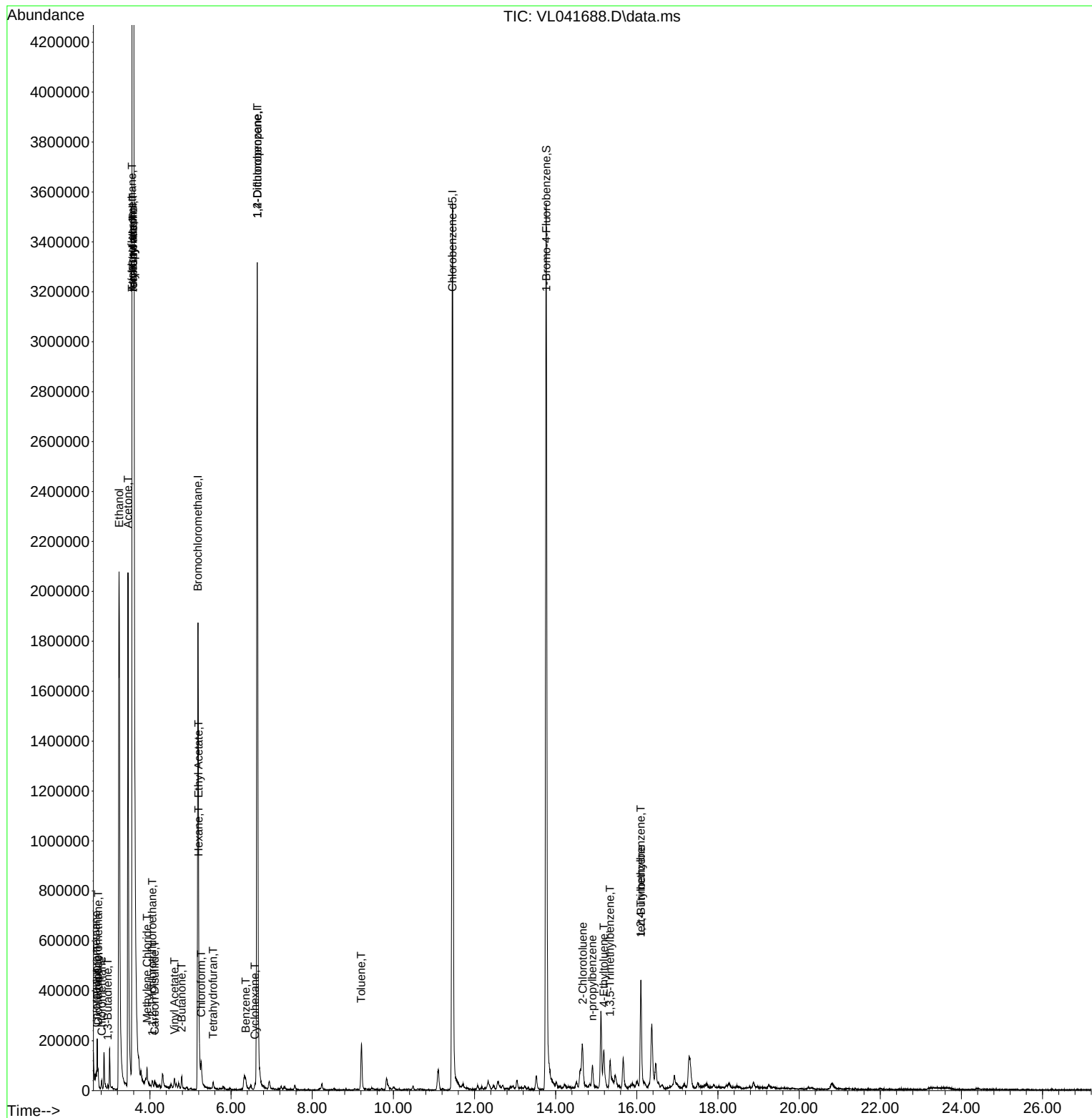
Internal Standards						
1) Bromochloromethane	5.182	49	920081	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2493857	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2294846	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1689750	9.993	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.726	85	34120	0.205	ppbv	94
3) Chlorodifluoromethane	2.674	51	83432	0.696	ppbv #	89
4) Chloromethane	2.812	50	27853	0.439	ppbv	100
9) Propene	2.703	41	38769	0.742	ppbv	86
11) Trichlorofluoromethane	3.558	101	30913	0.213	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.060	101	6995	0.066	ppbv	98
13) Ethanol	3.240	45	2619322	818.930	ppbv	99
15) Acetone	3.459	43	2121677	18.737	ppbv	100
16) 1,3-Butadiene	2.960	39	2509	0.044	ppbv #	80
17) tert-Butyl alcohol	3.581	59	1071625	10.785	ppbv	96
19) Isopropyl Alcohol	3.581	45	18570689	343.117	ppbv #	95
20) Methylene Chloride	3.928	84	20096	0.482	ppbv #	91
21) Allyl Chloride	3.584	41	2651889	37.899	ppbv #	76
23) Vinyl Acetate	4.607	43	12347	0.247	ppbv #	16
25) Ethyl Acetate	5.198	43	29969	0.128	ppbv #	91
26) Hexane	5.201	57	6965	0.077	ppbv #	1
27) Carbon Disulfide	4.121	76	22947	0.227	ppbv #	71
29) Chloroform	5.266	83	48363	0.325	ppbv	95
30) Cyclohexane	6.587	84	2473	0.032	ppbv #	19
34) 2-Butanone	4.783	43	50932	0.410	ppbv	94
36) Benzene	6.359	78	15460	0.084	ppbv #	80
39) 1,2-Dichloropropane	6.645	63	613166	8.397	ppbv #	23
41) Tetrahydrofuran	5.555	42	6112	0.086	ppbv #	43
53) Toluene	9.208	91	141574	0.729	ppbv	97
64) n-propylbenzene	14.905	120	10110	0.116	ppbv #	1
65) tert-Butylbenzene	16.101	119	35366	0.119	ppbv #	52
71) 2-Chlorotoluene	14.667	91	13984	0.058	ppbv #	43
72) 4-Ethyltoluene	15.182	105	115840	0.464	ppbv #	97
73) 1,3,5-Trimethylbenzene	15.339	105	40230	0.184	ppbv	97
74) 1,2,4-Trimethylbenzene	16.098	105	306589	1.204	ppbv #	66

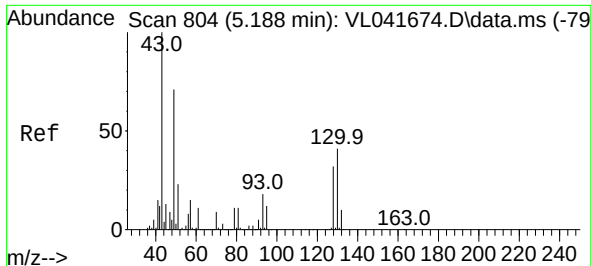
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
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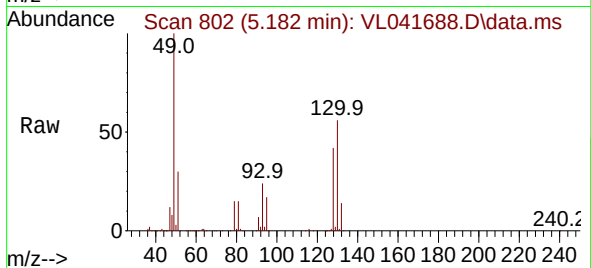
Quant Time: Nov 08 03:53:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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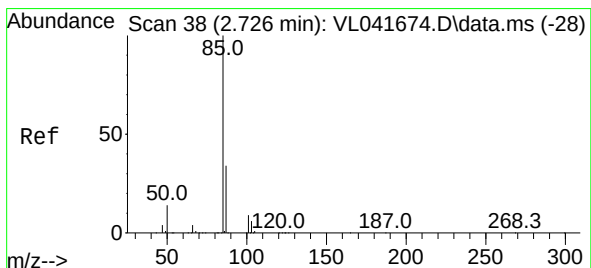
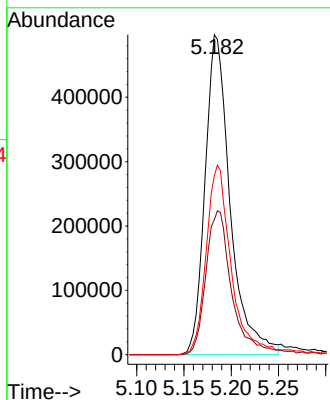
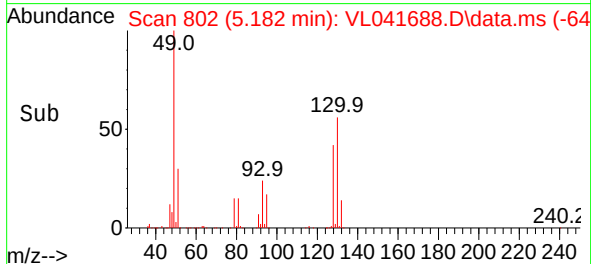


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 804
Delta R.T. -0.006 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

Instrument :
MSVOA_L
ClientSampleId :

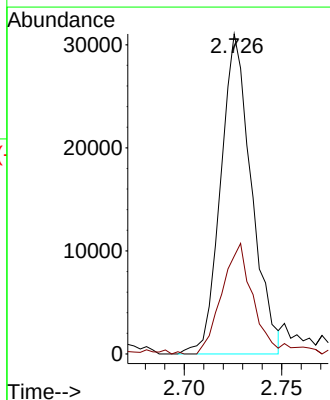
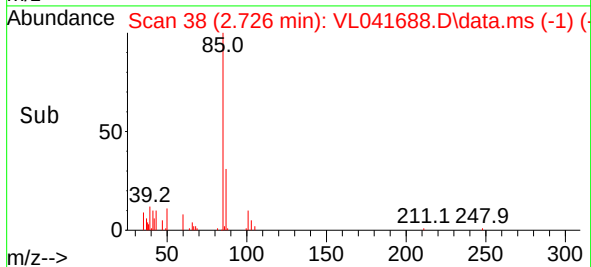
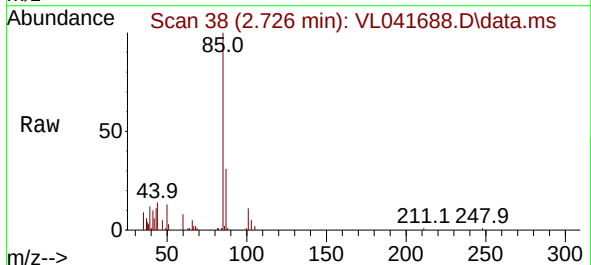


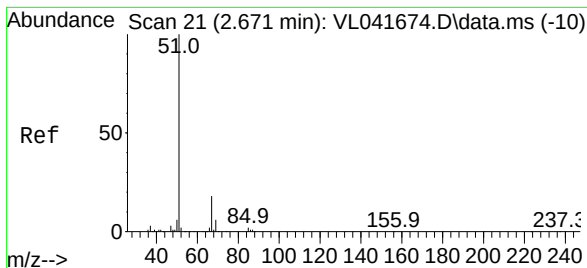
Tgt Ion: 49 Resp: 920081
Ion Ratio Lower Upper
49 100
128 47.7 23.8 71.2
130 61.0 30.1 90.5



#2
Dichlorodifluoromethane
Concen: 0.205 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.000 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

Tgt Ion: 85 Resp: 34120
Ion Ratio Lower Upper
85 100
87 29.8 26.8 40.2

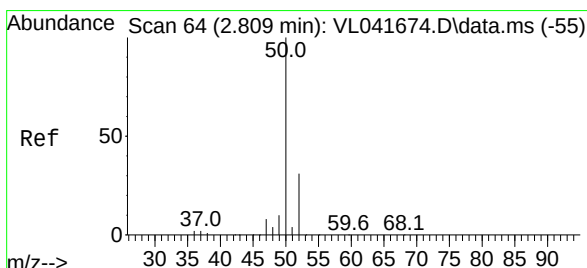
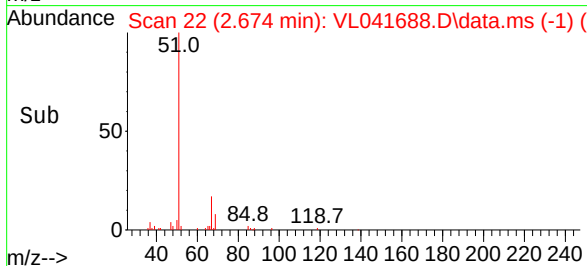
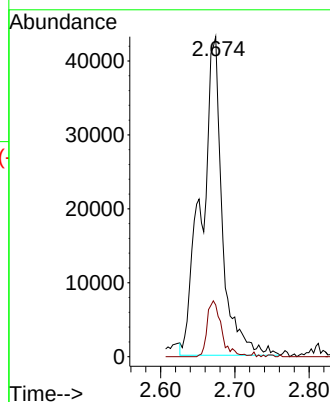
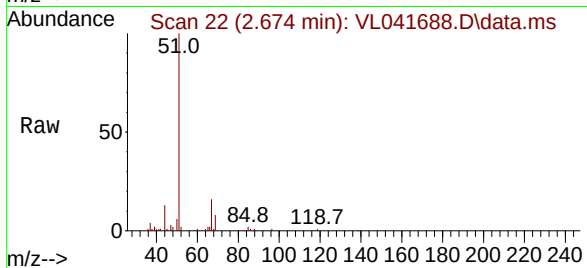




#3
Chlorodifluoromethane
Concen: 0.696 ppbv
RT: 2.674 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

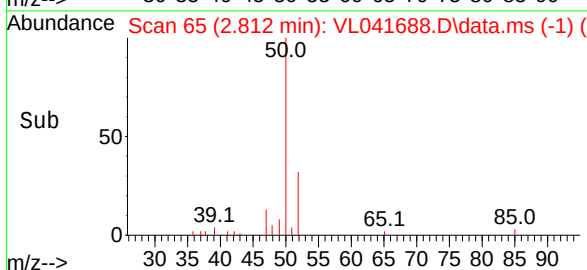
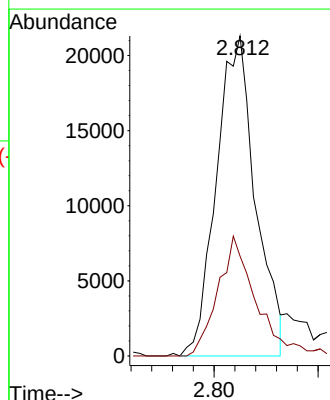
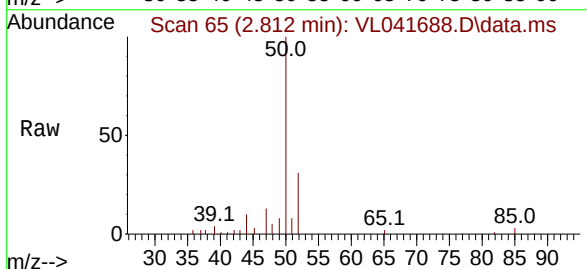
Instrument :
MSVOA_L
ClientSampleId :

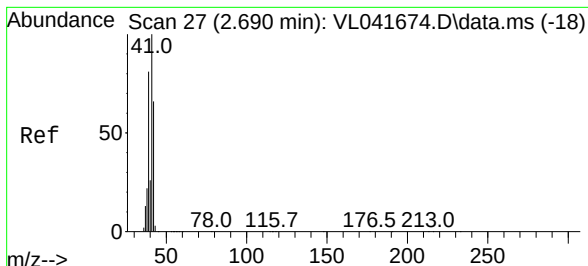
Tgt Ion: 51 Resp: 83432
Ion Ratio Lower Upper
51 100
67 12.5 13.9 20.9#



#4
Chloromethane
Concen: 0.439 ppbv
RT: 2.812 min Scan# 65
Delta R.T. 0.003 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

Tgt Ion: 50 Resp: 27853
Ion Ratio Lower Upper
50 100
52 31.2 24.9 37.3





#9

Propene

Concen: 0.742 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

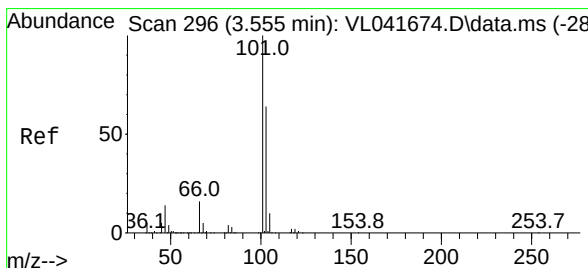
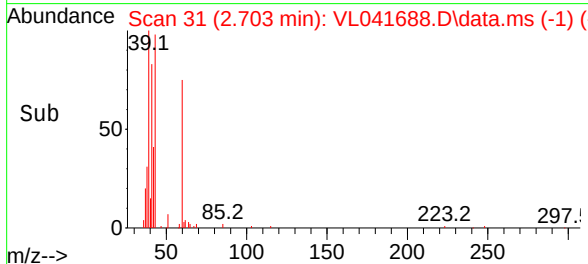
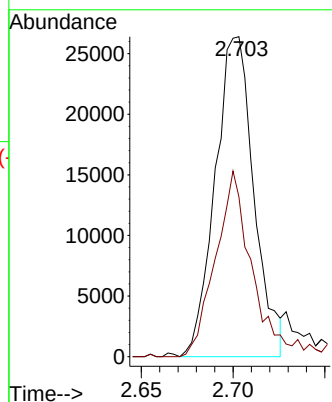
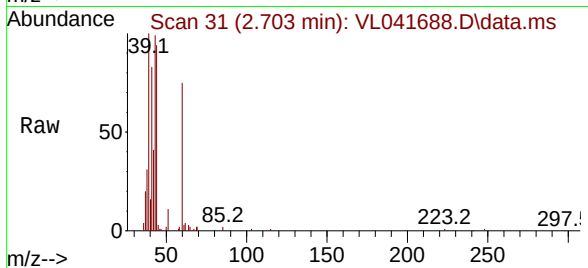
ClientSampleId :

Tgt Ion: 41 Resp: 38769

Ion Ratio Lower Upper

41 100

42 57.4 55.0 82.4



#11

Trichlorofluoromethane

Concen: 0.213 ppbv

RT: 3.558 min Scan# 297

Delta R.T. 0.003 min

Lab File: VL041688.D

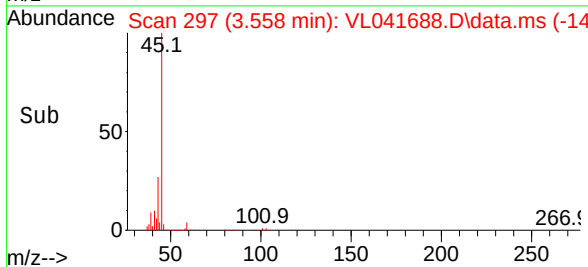
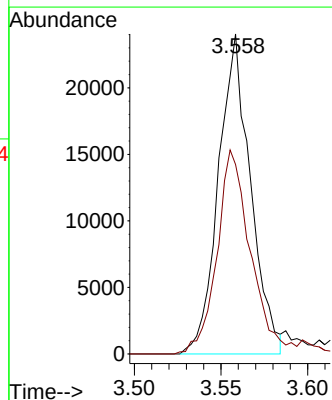
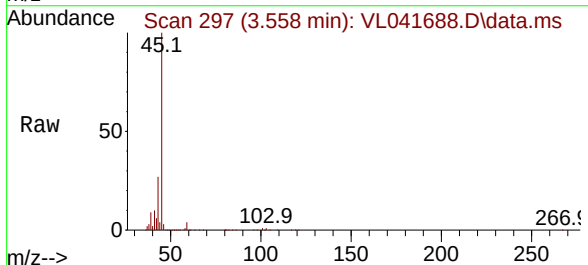
Acq: 7 Nov 2024 21:44

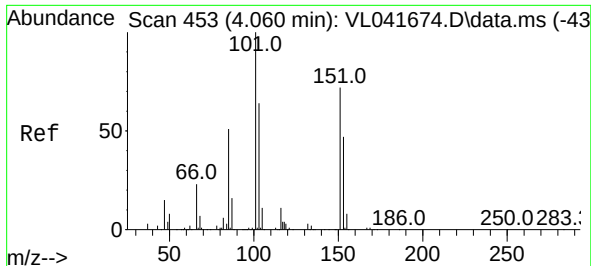
Tgt Ion: 101 Resp: 30913

Ion Ratio Lower Upper

101 100

103 58.6 51.0 76.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.066 ppbv

RT: 4.060 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

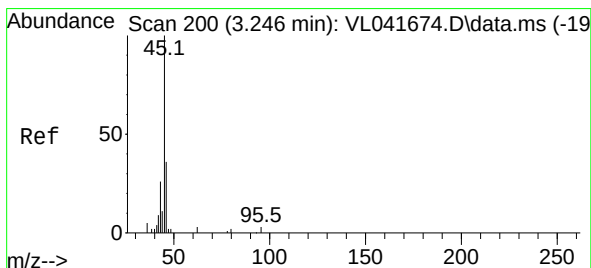
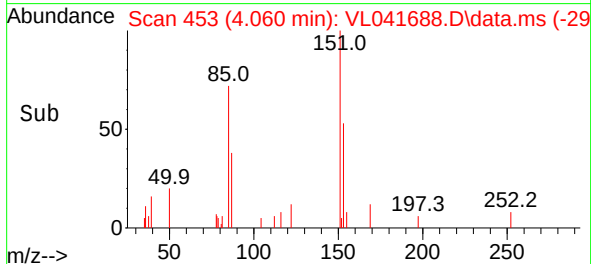
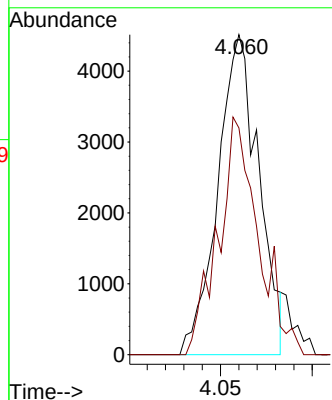
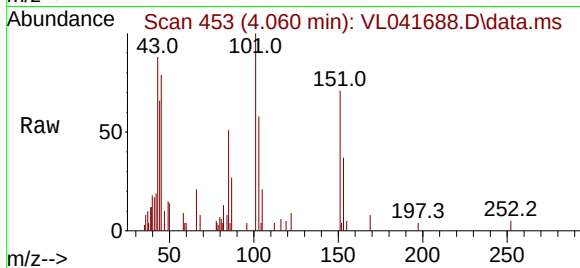
ClientSampleId :

Tgt Ion:101 Resp: 6995

Ion Ratio Lower Upper

101 100

151 72.6 59.1 88.7



#13

Ethanol

Concen: 818.930 ppbv

RT: 3.240 min Scan# 198

Delta R.T. -0.006 min

Lab File: VL041688.D

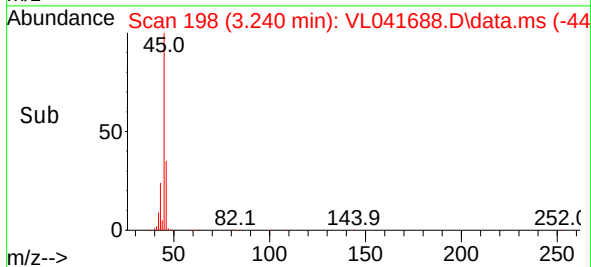
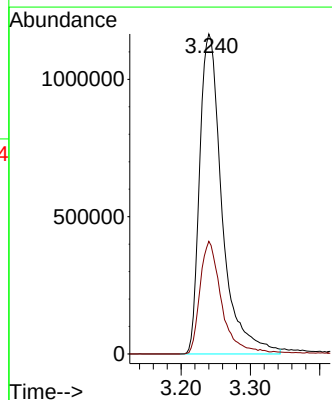
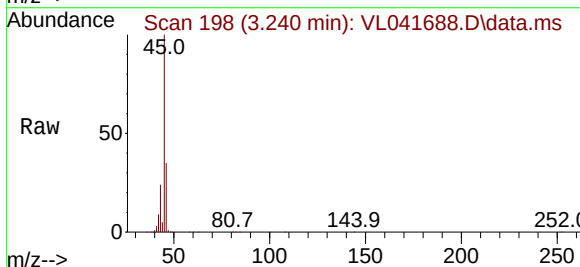
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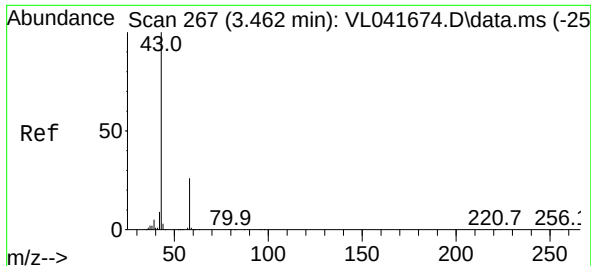
Tgt Ion: 45 Resp: 2619322

Ion Ratio Lower Upper

45 100

46 35.0 13.8 55.2





#15

Acetone

Concen: 18.737 ppbv

RT: 3.459 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

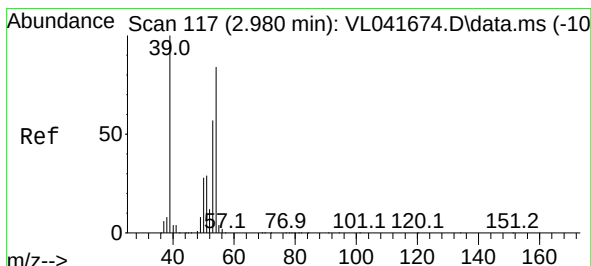
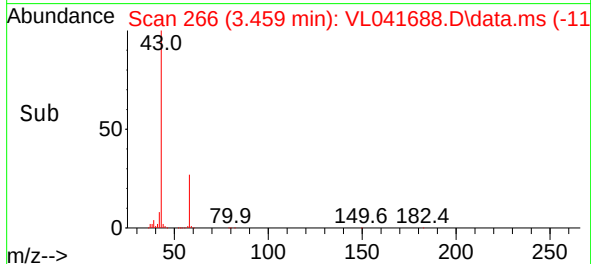
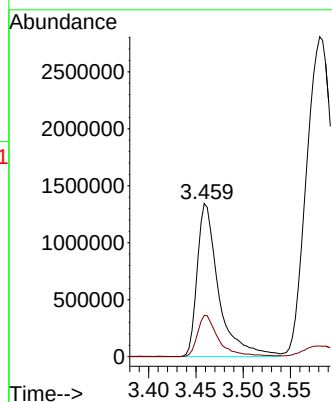
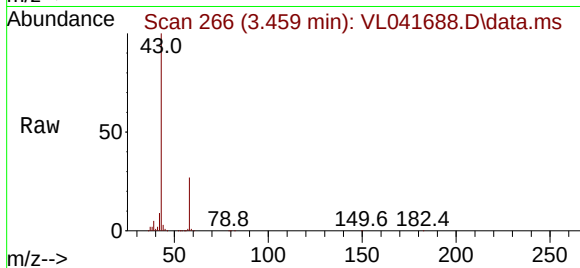
ClientSampleId :

Tgt Ion: 43 Resp: 2121677

Ion Ratio Lower Upper

43 100

58 26.7 21.4 32.0



#16

1,3-Butadiene

Concen: 0.044 ppbv

RT: 2.960 min Scan# 111

Delta R.T. -0.019 min

Lab File: VL041688.D

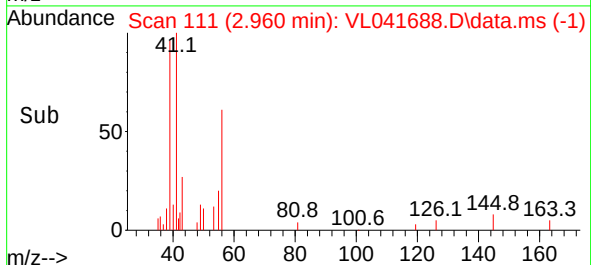
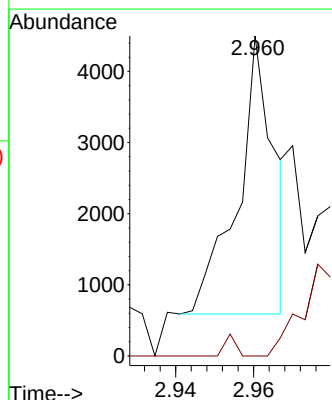
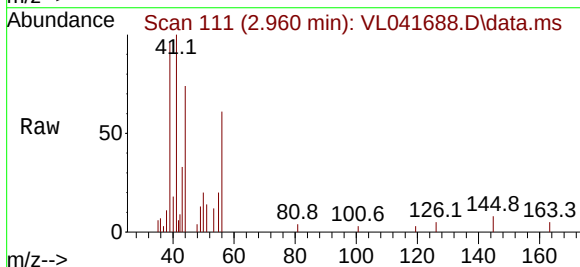
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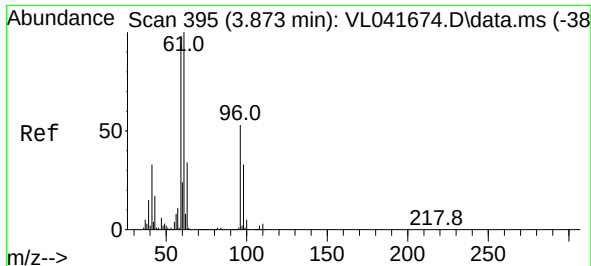
Tgt Ion: 39 Resp: 2509

Ion Ratio Lower Upper

39 100

54 93.5 61.3 91.9#

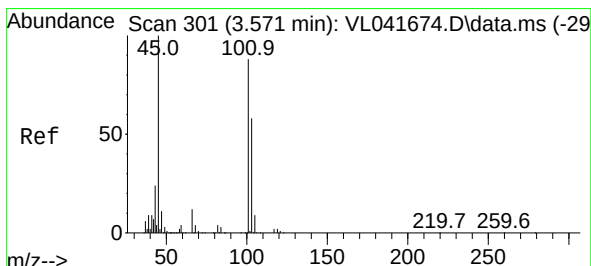
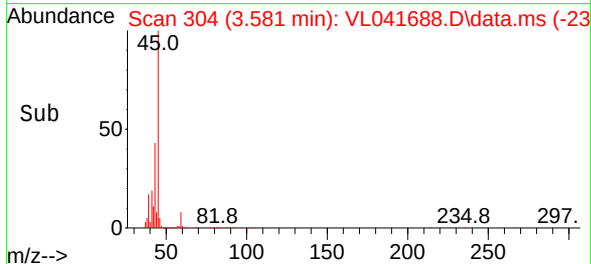
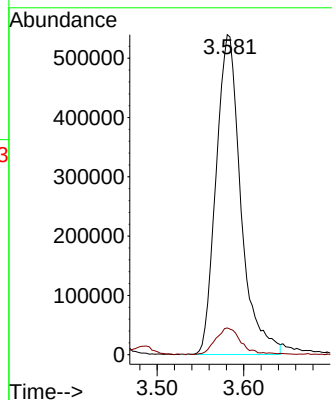
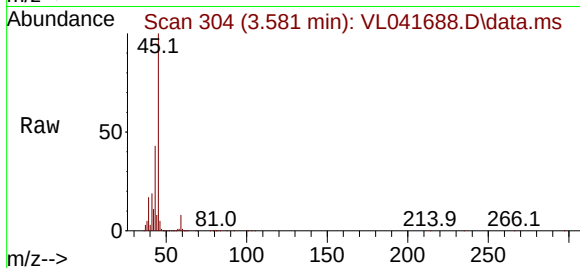




#17
tert-Butyl alcohol
Concen: 10.785 ppbv
RT: 3.581 min Scan# 304
Delta R.T. -0.292 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

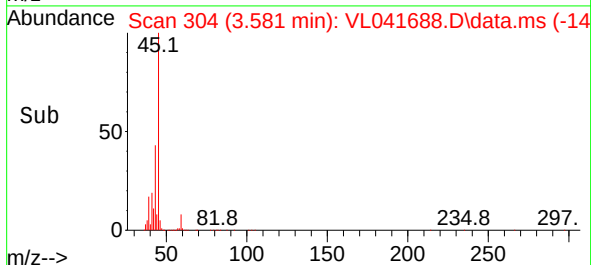
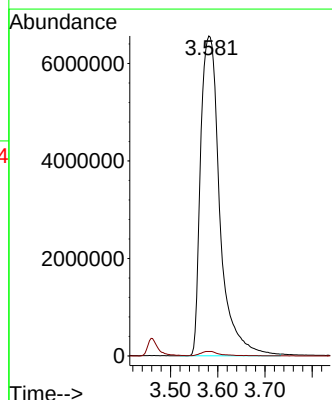
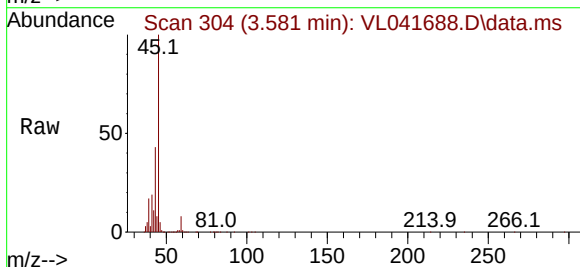
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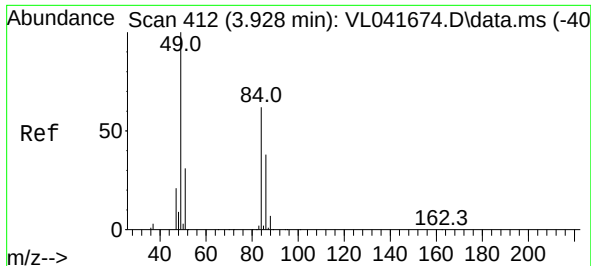
Tgt Ion: 59 Resp: 1071625
Ion Ratio Lower Upper
59 100
57 9.0 8.5 12.7



#19
Isopropyl Alcohol
Concen: 343.117 ppbv
RT: 3.581 min Scan# 304
Delta R.T. 0.010 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

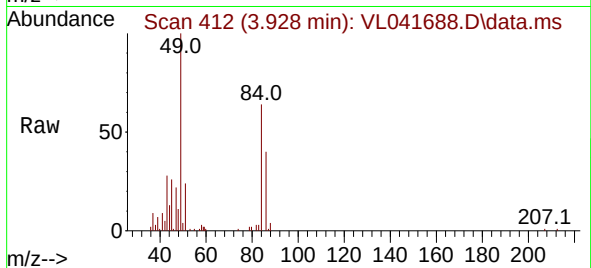
Tgt Ion: 45 Resp:18570689
Ion Ratio Lower Upper
45 100
58 1.5 2.5 3.7#



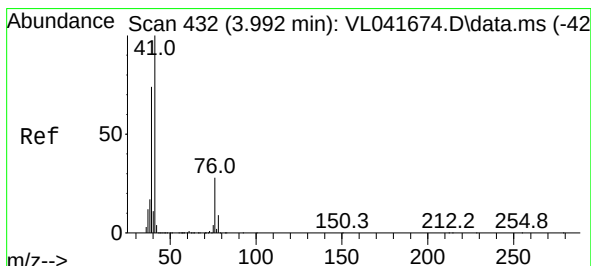
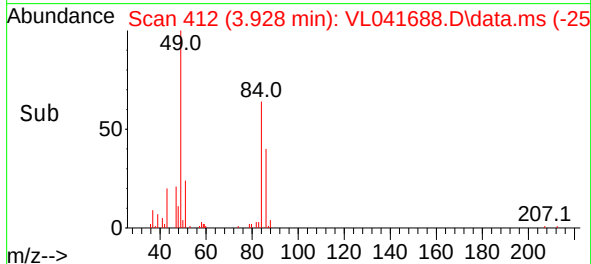
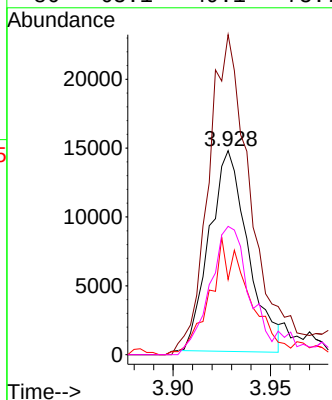


#20
Methylene Chloride
Concen: 0.482 ppbv
RT: 3.928 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

Instrument :
MSVOA_L
ClientSampleId :

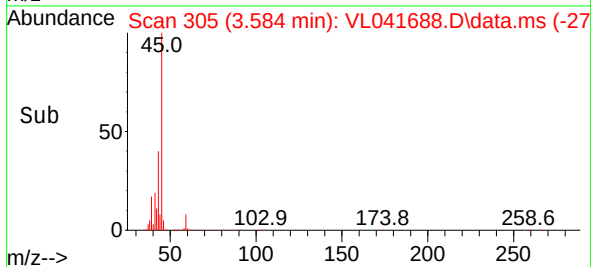
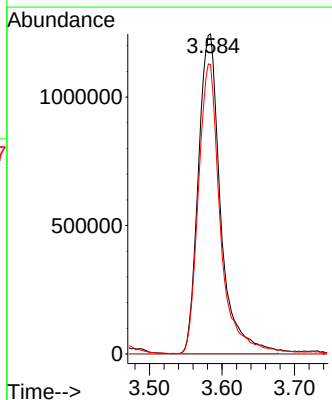
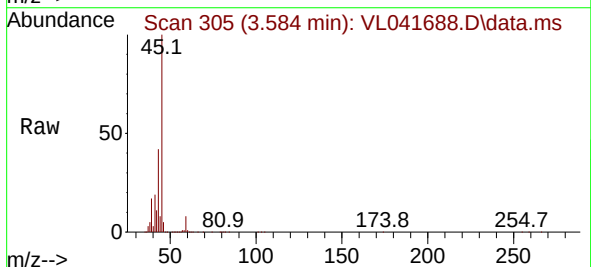


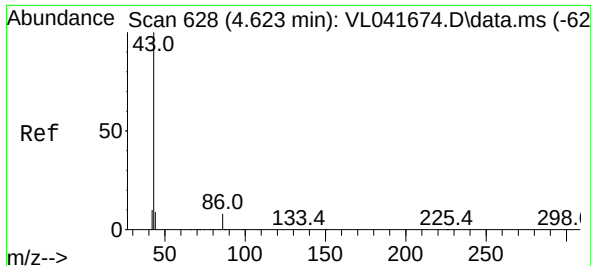
Tgt Ion: 84 Resp: 20096
Ion Ratio Lower Upper
84 100
49 152.1 129.7 194.5
51 36.1 39.8 59.6#
86 63.1 49.1 73.7



#21
Allyl Chloride
Concen: 37.899 ppbv
RT: 3.584 min Scan# 305
Delta R.T. -0.408 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

Tgt Ion: 41 Resp: 2651889
Ion Ratio Lower Upper
41 100
76 0.0 23.5 35.3#
39 90.0 63.0 94.4





#23

Vinyl Acetate

Concen: 0.247 ppbv

RT: 4.607 min Scan# 61

Delta R.T. -0.016 min

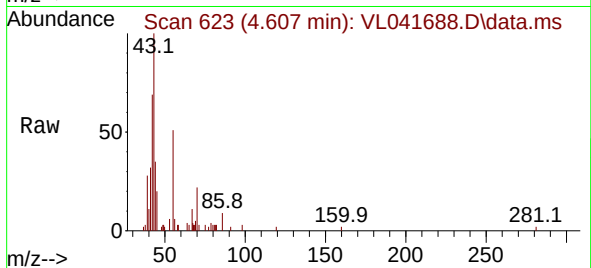
Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 43 Resp: 12347

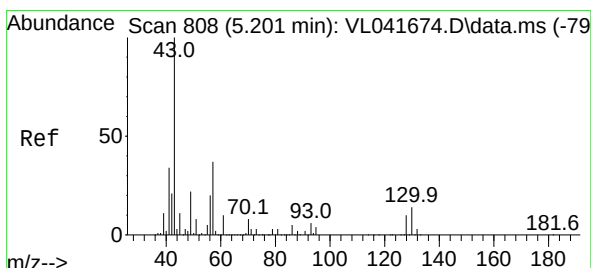
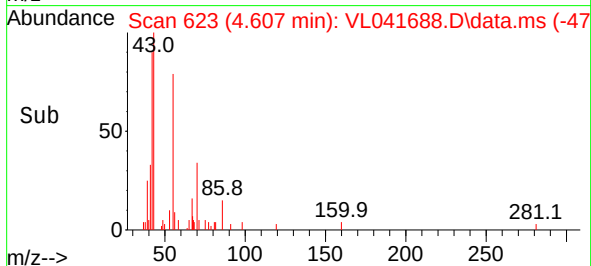
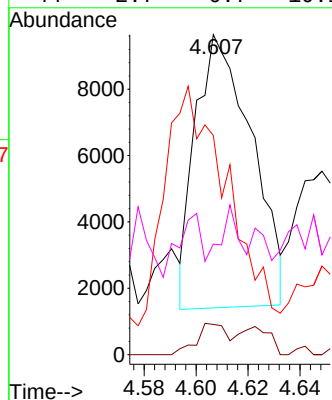
Ion Ratio Lower Upper

43 100

86 13.2 5.3 7.9#

42 77.7 8.5 12.7#

44 2.7 6.7 10.1#



#25

Ethyl Acetate

Concen: 0.128 ppbv

RT: 5.198 min Scan# 807

Delta R.T. -0.003 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Tgt Ion: 43 Resp: 29969

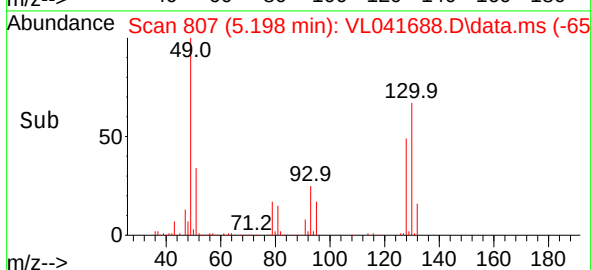
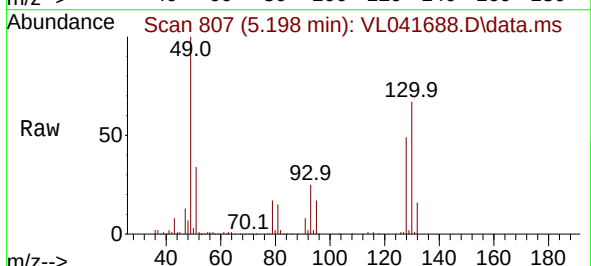
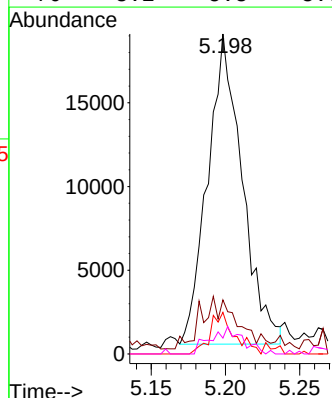
Ion Ratio Lower Upper

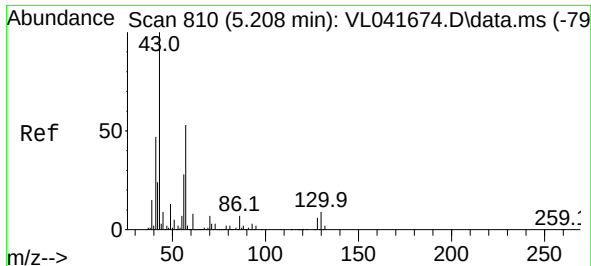
43 100

45 18.8 8.6 13.0#

61 10.6 8.4 12.6

70 8.2 5.8 8.6





#26

Hexane

Concen: 0.077 ppbv

RT: 5.201 min Scan# 810

Delta R.T. -0.006 min

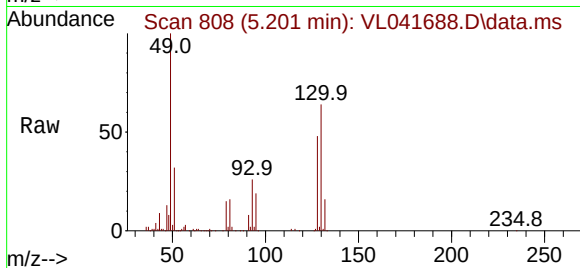
Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 57 Resp: 6965

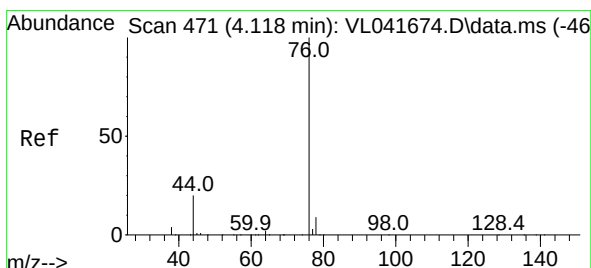
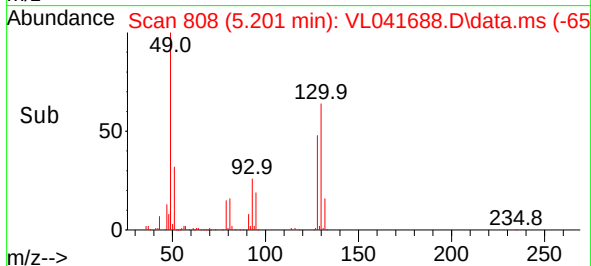
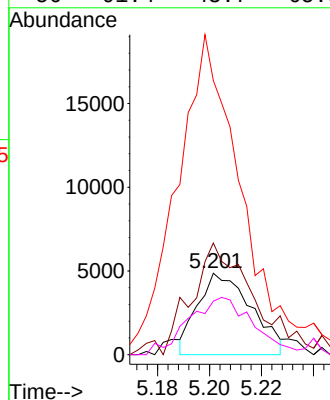
Ion Ratio Lower Upper

57 100

41 186.2 76.1 114.1#

43 533.6 207.0 310.6#

56 91.4 43.7 65.5#



#27

Carbon Disulfide

Concen: 0.227 ppbv

RT: 4.121 min Scan# 472

Delta R.T. 0.003 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

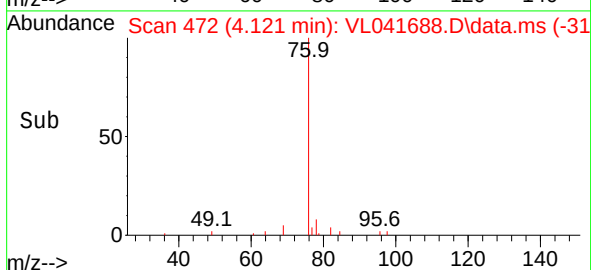
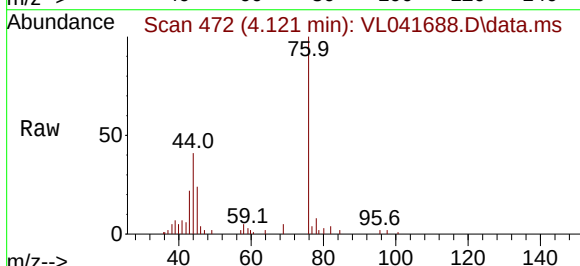
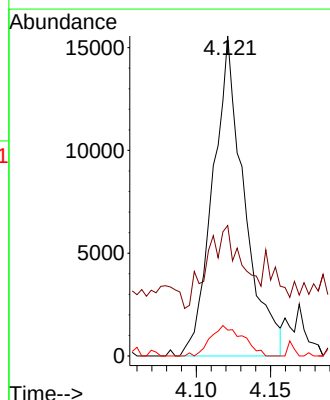
Tgt Ion: 76 Resp: 22947

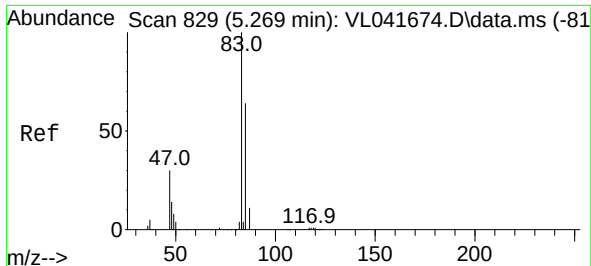
Ion Ratio Lower Upper

76 100

44 39.3 15.8 23.8#

78 9.8 7.5 11.3





#29

Chloroform

Concen: 0.325 ppbv

RT: 5.266 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

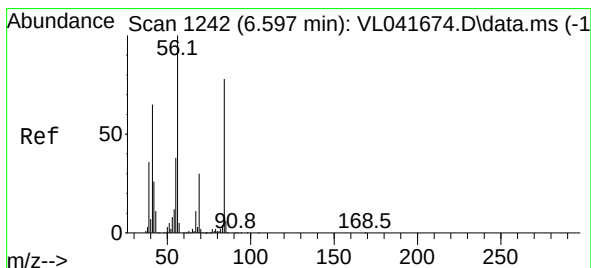
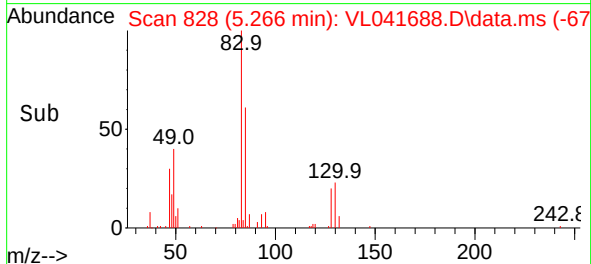
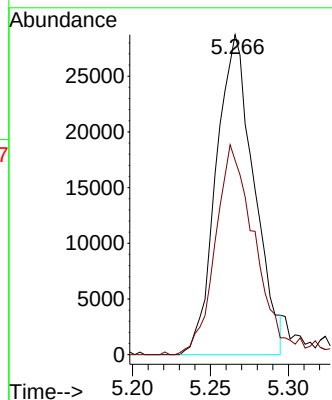
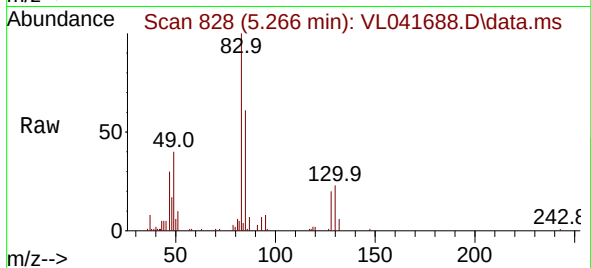
ClientSampleId :

Tgt Ion: 83 Resp: 48363

Ion Ratio Lower Upper

83 100

85 60.1 51.1 76.7



#30

Cyclohexane

Concen: 0.032 ppbv

RT: 6.587 min Scan# 1239

Delta R.T. -0.010 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

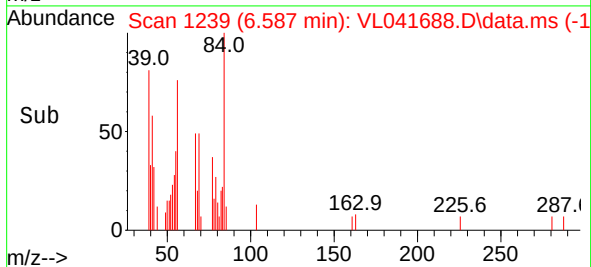
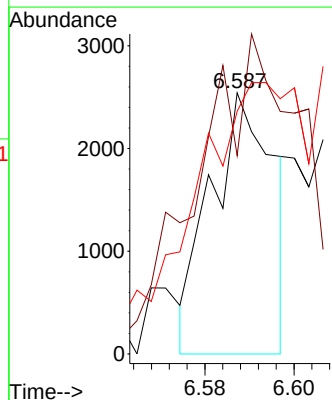
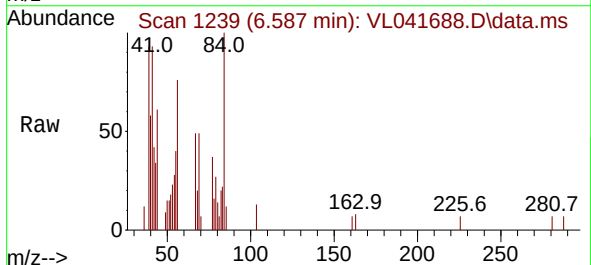
Tgt Ion: 84 Resp: 2473

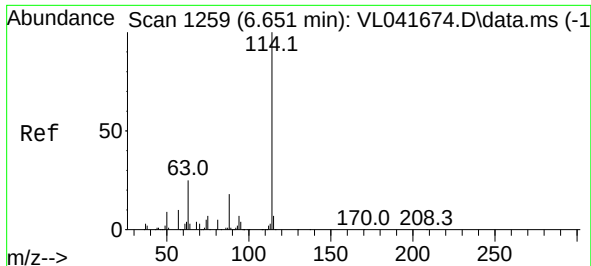
Ion Ratio Lower Upper

84 100

56 226.4 110.8 166.2#

41 0.0 70.0 105.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

ClientSampleId :

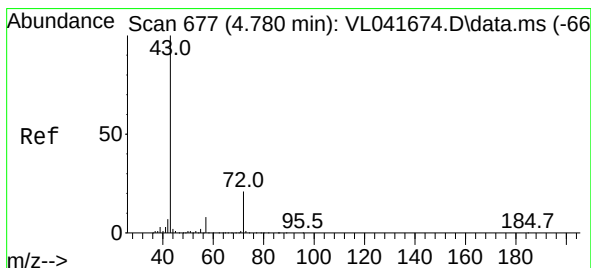
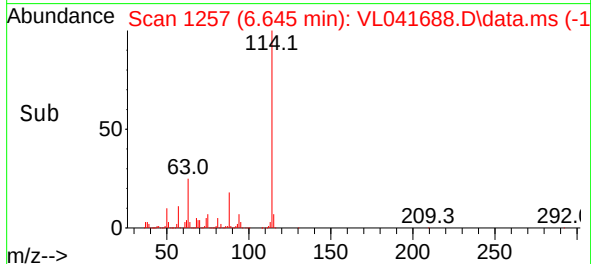
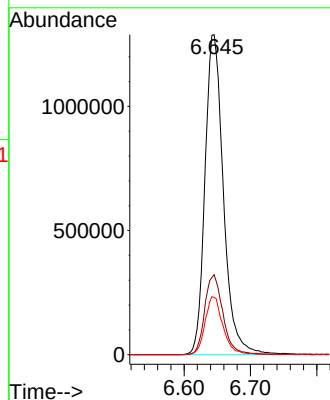
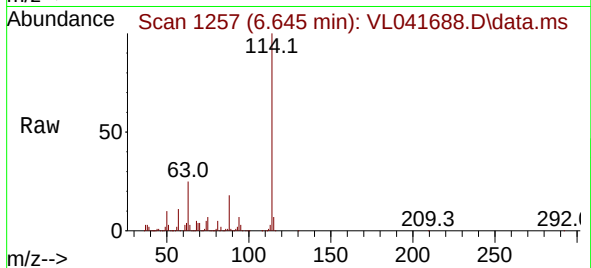
Tgt Ion:114 Resp: 2493857

Ion Ratio Lower Upper

114 100

63 24.9 20.3 30.5

88 17.6 14.2 21.4



#34

2-Butanone

Concen: 0.410 ppbv

RT: 4.783 min Scan# 678

Delta R.T. 0.003 min

Lab File: VL041688.D

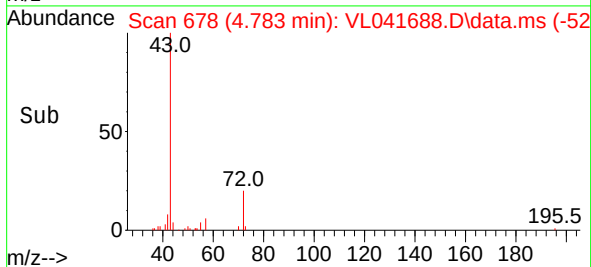
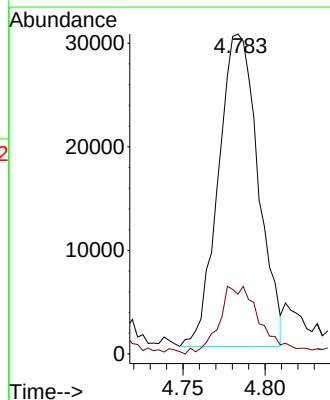
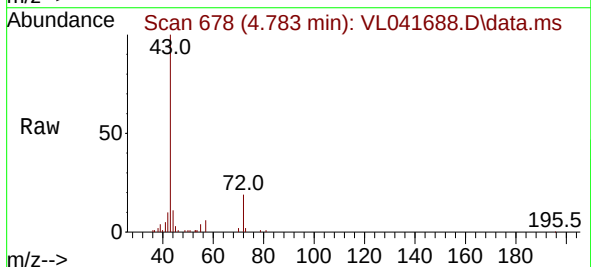
Acq: 7 Nov 2024 21:44

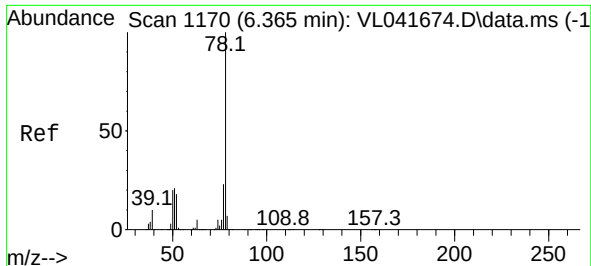
Tgt Ion: 43 Resp: 50932

Ion Ratio Lower Upper

43 100

72 24.7 17.4 26.0

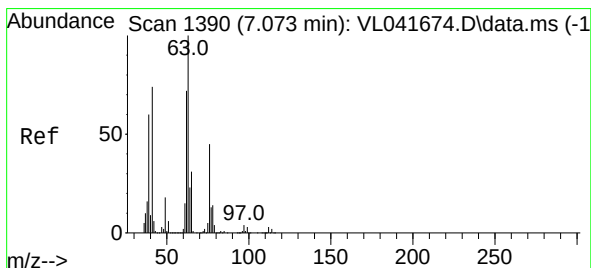
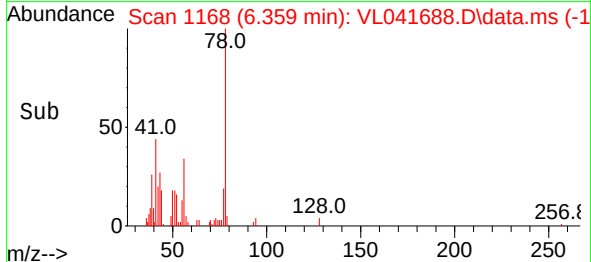
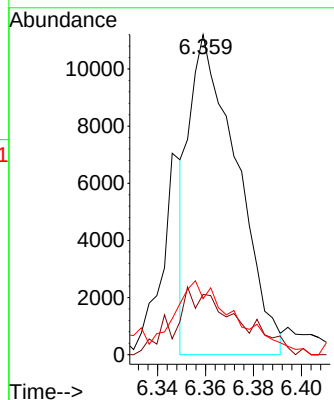
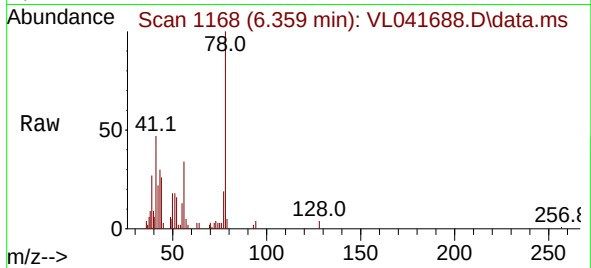




#36
Benzene
Concen: 0.084 ppbv
RT: 6.359 min Scan# 1170
Delta R.T. -0.006 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

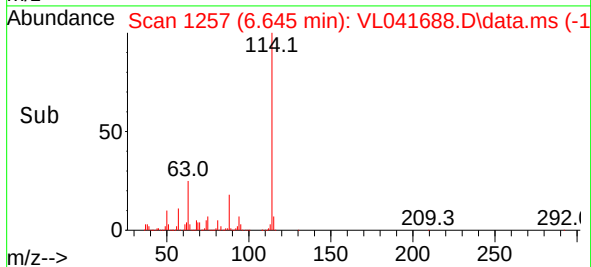
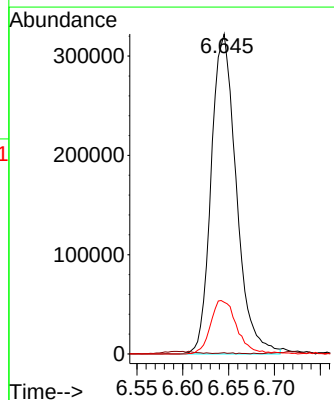
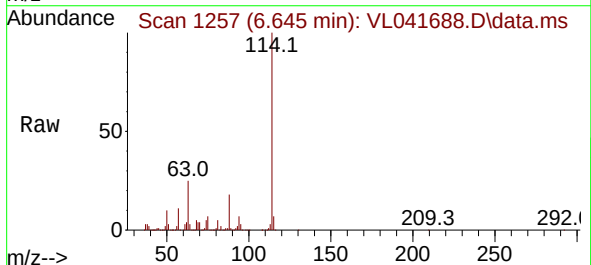
Instrument :
MSVOA_L
ClientSampleId :

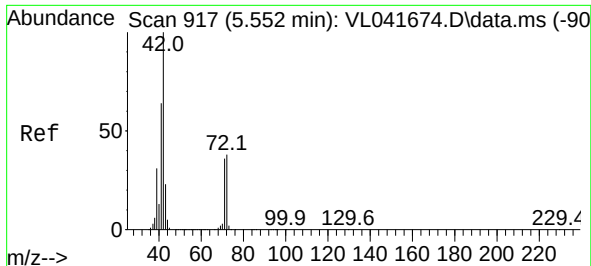
Tgt Ion: 78 Resp: 15460
Ion Ratio Lower Upper
78 100
77 14.2 18.5 27.7#
50 9.6 15.6 23.4#



#39
1,2-Dichloropropane
Concen: 8.397 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.428 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

Tgt Ion: 63 Resp: 613166
Ion Ratio Lower Upper
63 100
41 0.0 59.1 88.7#
62 16.2 57.7 86.5#





#41

Tetrahydrofuran

Concen: 0.086 ppbv

RT: 5.555 min Scan# 917

Delta R.T. 0.003 min

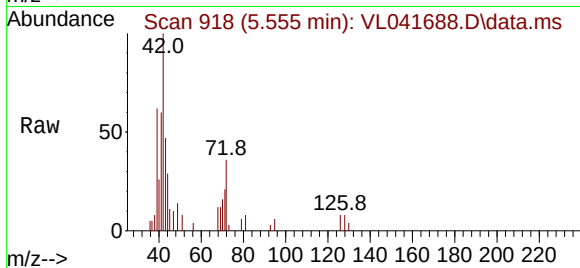
Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

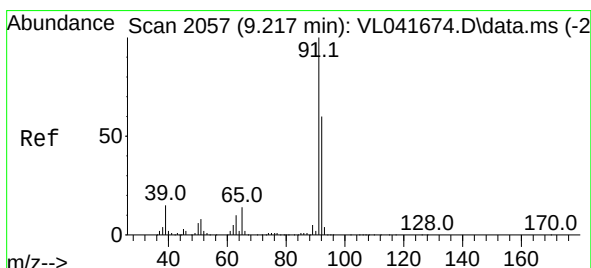
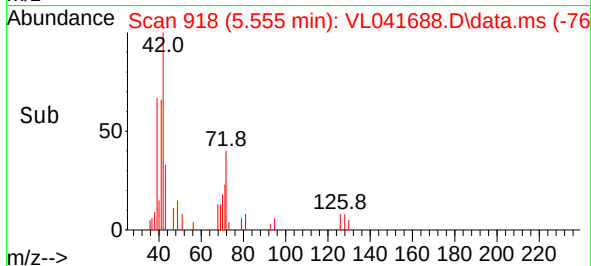
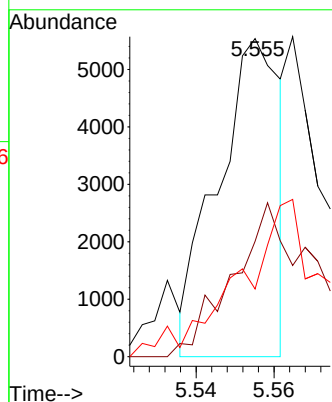
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	42	Resp:	6112
Ion Ratio	Lower	Upper	
42	100		
72	68.5	29.8	44.6#
71	0.0	29.4	44.2#



#53

Toluene

Concen: 0.729 ppbv

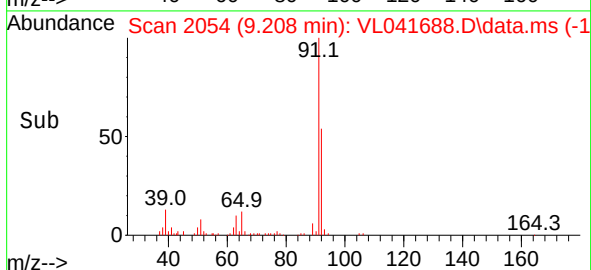
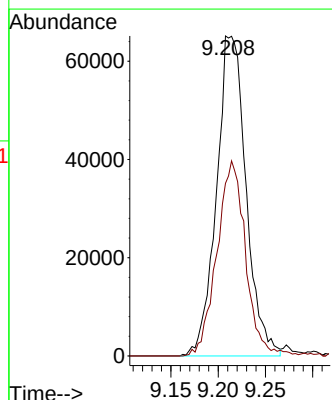
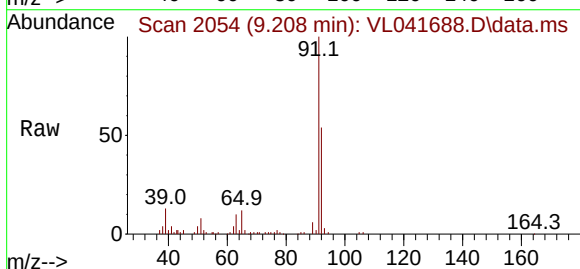
RT: 9.208 min Scan# 2054

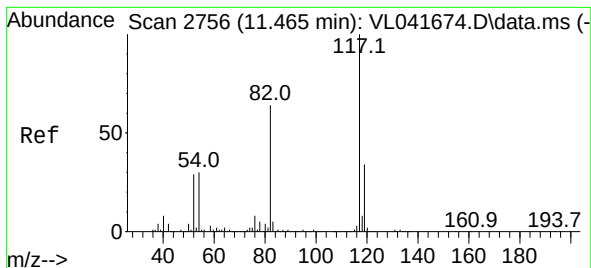
Delta R.T. -0.010 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Tgt Ion:	91	Resp:	141574
Ion Ratio	Lower	Upper	
91	100		
92	59.2	49.0	73.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 21

Delta R.T. -0.010 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

ClientSampleId :

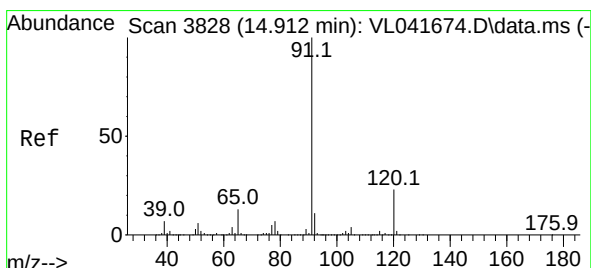
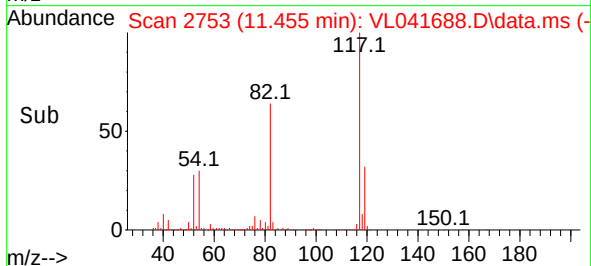
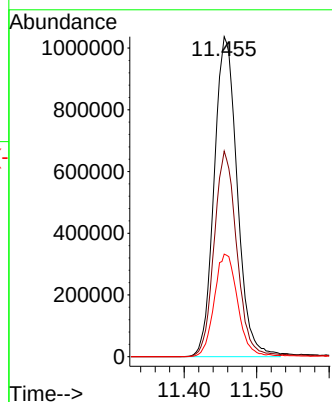
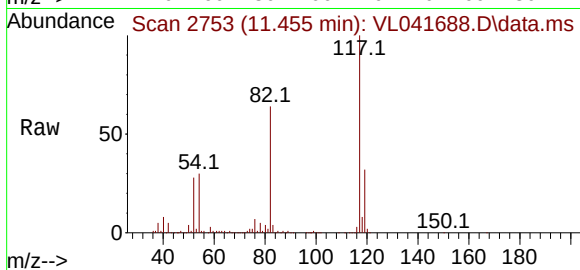
Tgt Ion:117 Resp: 2294846

Ion Ratio Lower Upper

117 100

82 64.1 49.8 74.8

119 32.8 24.2 36.4



#64

n-propylbenzene

Concen: 0.116 ppbv

RT: 14.905 min Scan# 3826

Delta R.T. -0.006 min

Lab File: VL041688.D

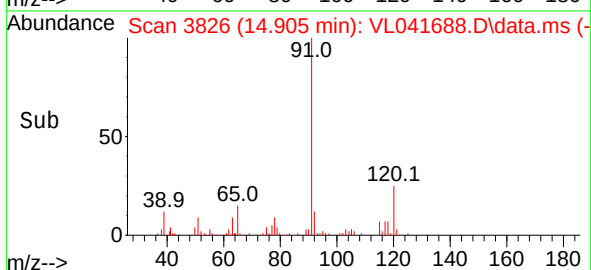
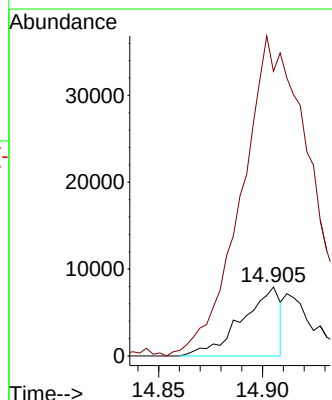
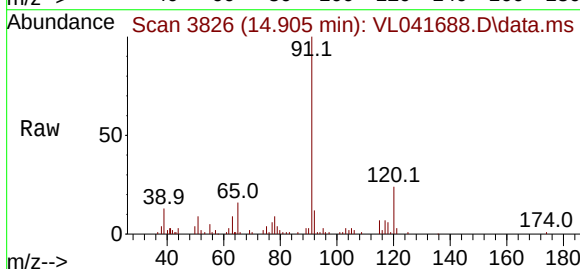
Acq: 7 Nov 2024 21:44

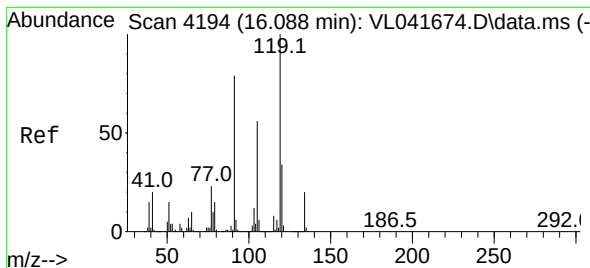
Tgt Ion:120 Resp: 10110

Ion Ratio Lower Upper

120 100

91 893.8 362.4 543.6#

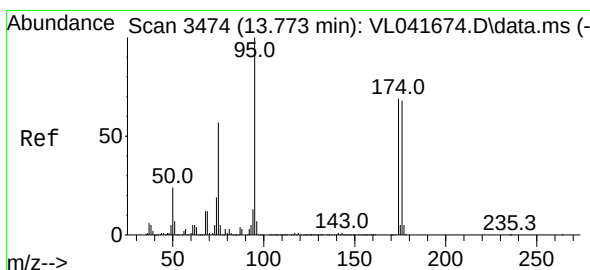
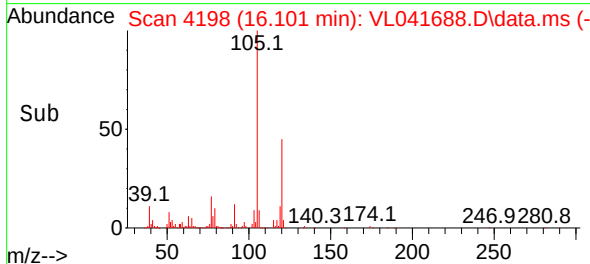
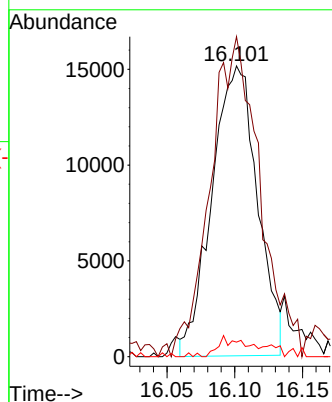
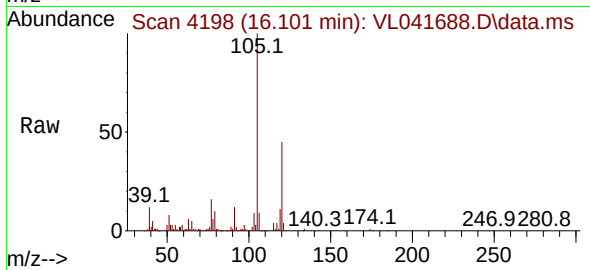




#65
tert-Butylbenzene
Concen: 0.119 ppbv
RT: 16.101 min Scan# 4194
Delta R.T. 0.013 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

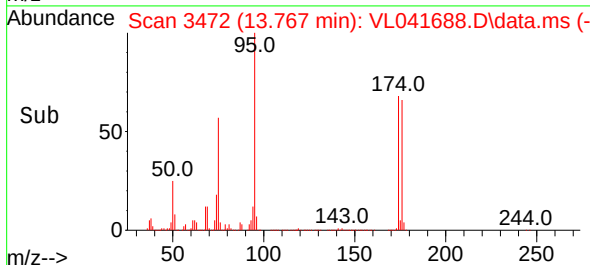
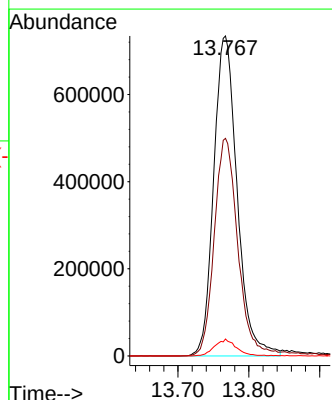
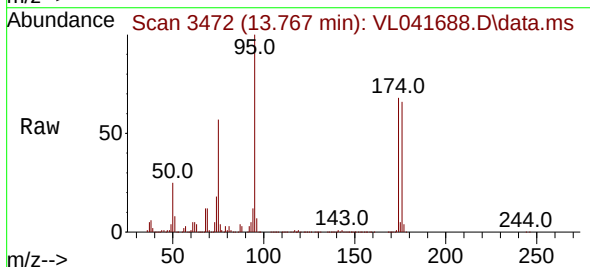
Instrument :
MSVOA_L
ClientSampleId :

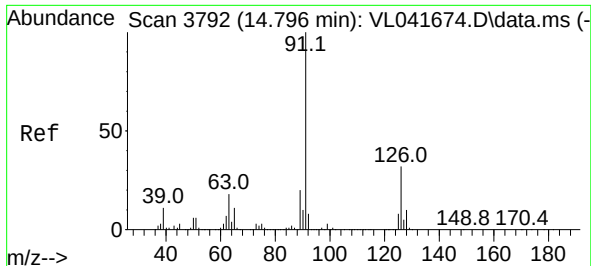
Tgt Ion:119 Resp: 35366
Ion Ratio Lower Upper
119 100
91 127.1 64.3 96.5#
134 6.4 15.8 23.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.993 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. -0.006 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

Tgt Ion: 95 Resp: 1689750
Ion Ratio Lower Upper
95 100
174 70.2 55.6 83.4
175 5.0 4.2 6.2

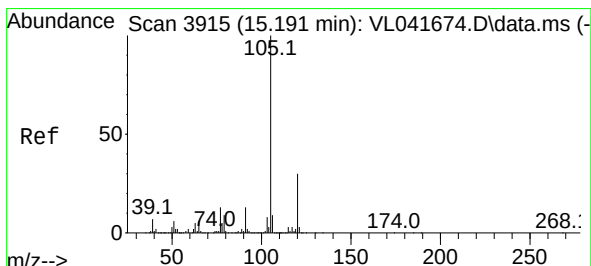
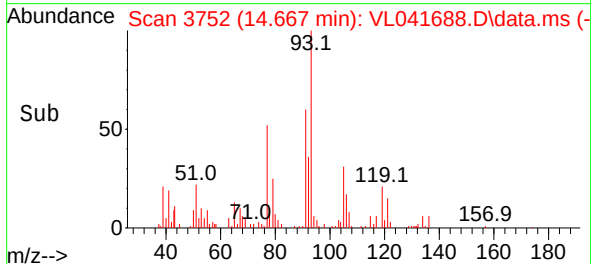
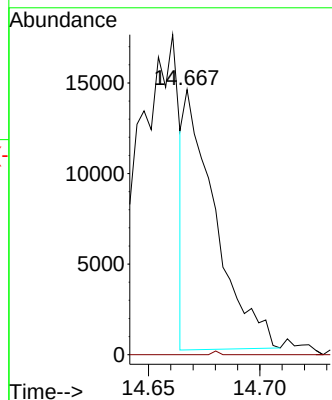
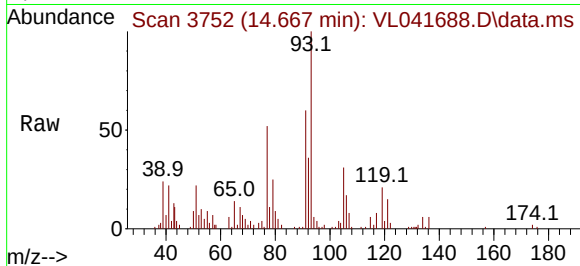




#71
2-Chlorotoluene
Concen: 0.058 ppbv
RT: 14.667 min Scan# 31
Delta R.T. -0.128 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

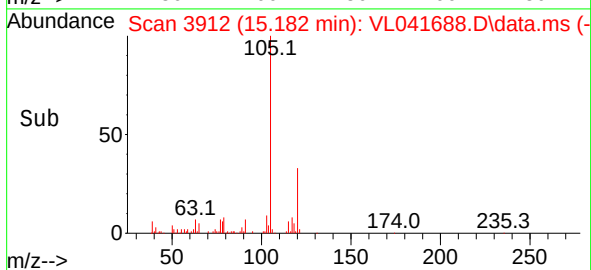
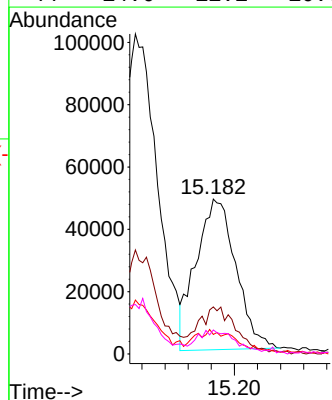
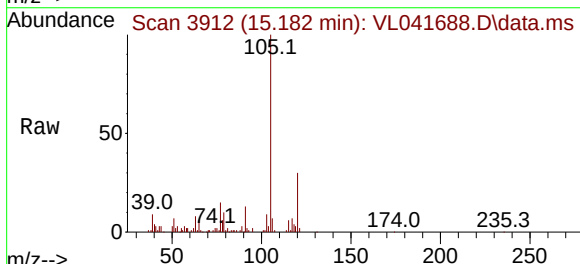
Instrument :
MSVOA_L
ClientSampleId :

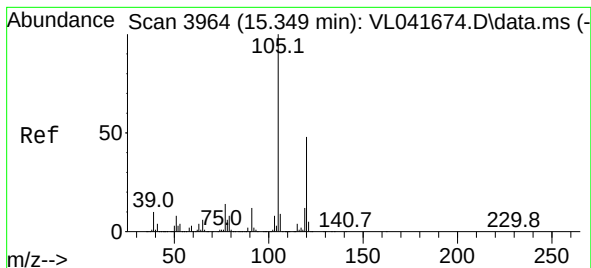
Tgt Ion: 91 Resp: 13984
Ion Ratio Lower Upper
91 100
126 0.3 12.8 51.0#



#72
4-Ethyltoluene
Concen: 0.464 ppbv
RT: 15.182 min Scan# 3912
Delta R.T. -0.010 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

Tgt Ion:105 Resp: 115840
Ion Ratio Lower Upper
105 100
120 31.6 25.0 37.4
91 16.3 10.6 15.8#
77 14.6 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.184 ppbv

RT: 15.339 min Scan# 3961

Delta R.T. -0.010 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

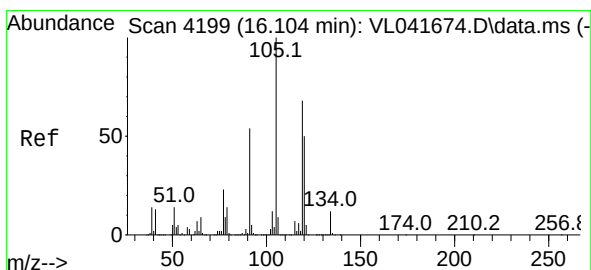
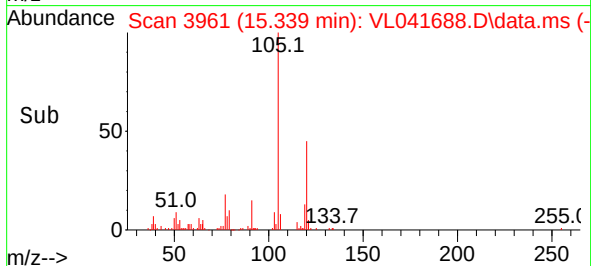
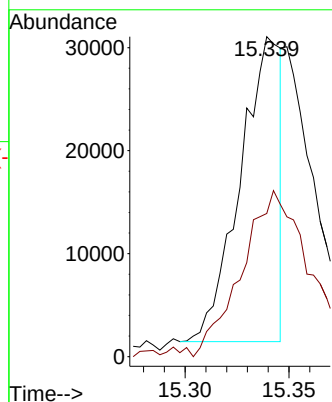
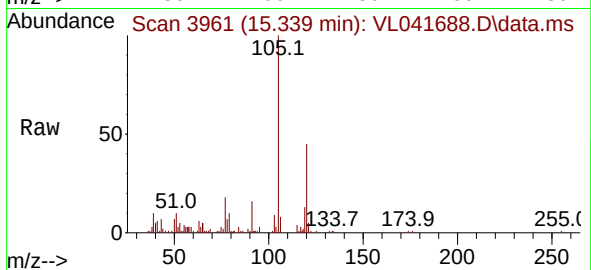
ClientSampleId :

Tgt Ion:105 Resp: 40230

Ion Ratio Lower Upper

105 100

120 45.6 38.4 57.6



#74

1,2,4-Trimethylbenzene

Concen: 1.204 ppbv

RT: 16.098 min Scan# 4197

Delta R.T. -0.006 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Tgt Ion:105 Resp: 306589

Ion Ratio Lower Upper

105 100

120 40.7 39.8 59.8

91 11.0 43.2 64.8#

77 13.9 18.5 27.7#

