

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060524\
 Data File : VL041330.D
 Acq On : 5 Jun 2024 16:51
 Operator : SY/MD
 Sample : P2673-01DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 06 04:40:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jun 05 04:42:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	898700	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2371042	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2169660	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1680501	10.032	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

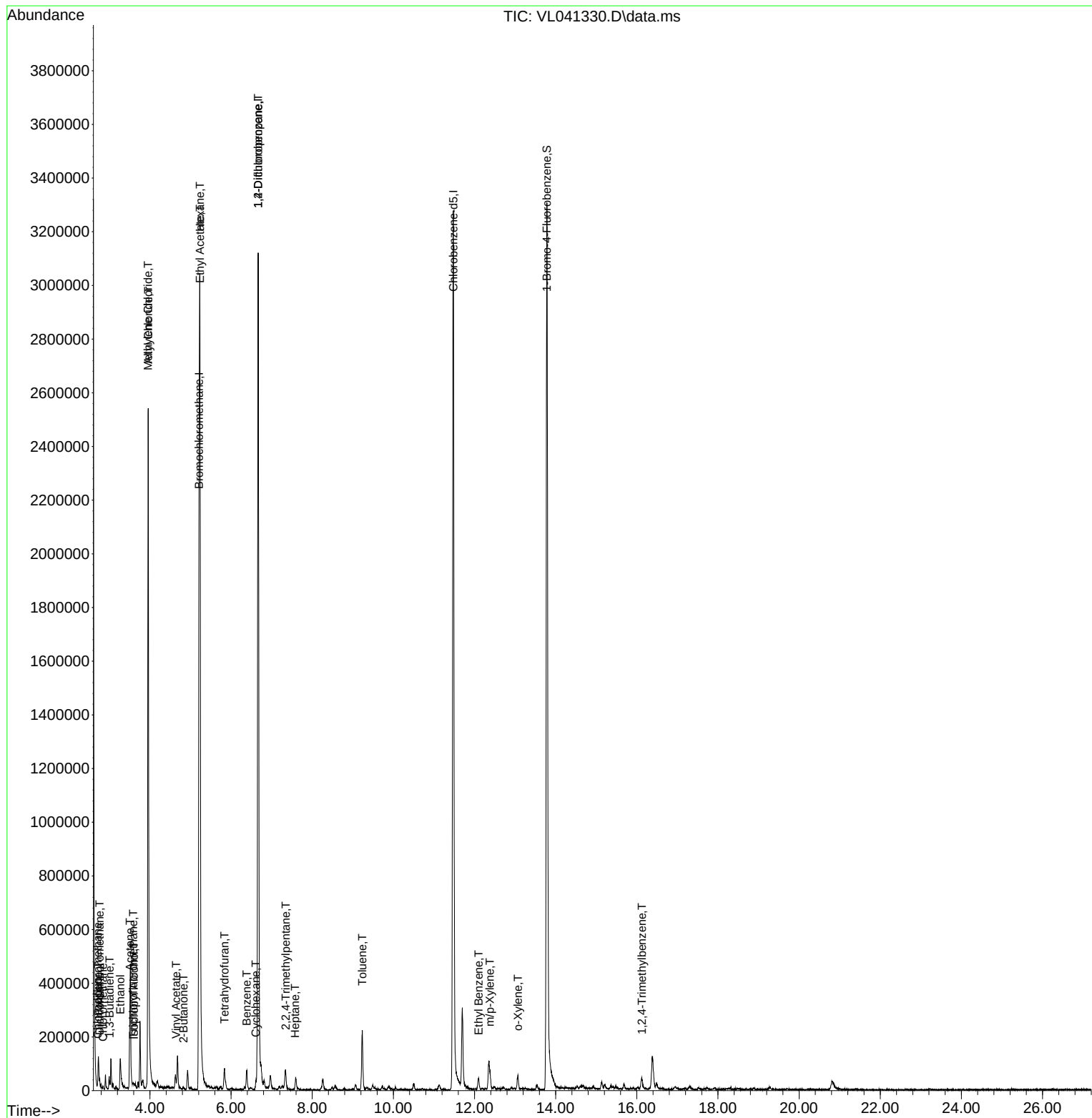
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.758	85	8644	0.060	ppbv	94
3) Chlorodifluoromethane	2.709	51	9872	0.070	ppbv #	91
4) Chloromethane	2.841	50	8791	0.164	ppbv	94
9) Propene	2.726	41	44796	0.886	ppbv	93
10) Heptane	7.581	43	4774	0.040	ppbv #	28
11) Trichlorofluoromethane	3.587	101	6515	0.049	ppbv	91
13) Ethanol	3.269	45	125831	9.561	ppbv	91
15) Acetone	3.504	43	130387	1.271	ppbv #	75
16) 1,3-Butadiene	3.009	39	6117	0.119	ppbv	83
19) Isopropyl Alcohol	3.603	45	3989	0.062	ppbv #	95
20) Methylene Chloride	3.954	84	826473	22.160	ppbv	98
21) Allyl Chloride	3.957	41	35377	0.544	ppbv #	36
23) Vinyl Acetate	4.648	43	3597	0.034	ppbv #	70
25) Ethyl Acetate	5.234	43	720261	3.548	ppbv #	77
26) Hexane	5.230	57	1008819	11.051	ppbv #	41
30) Cyclohexane	6.610	84	3052	0.041	ppbv #	1
34) 2-Butanone	4.825	43	10837	0.095	ppbv	99
36) Benzene	6.388	78	53728	0.292	ppbv	93
39) 1,2-Dichloropropane	6.668	63	587621	8.030	ppbv #	25
41) Tetrahydrofuran	5.838	42	6918	0.094	ppbv #	38
44) 2,2,4-Trimethylpentane	7.349	57	16386	0.052	ppbv #	1
53) Toluene	9.233	91	151848	0.718	ppbv	100
58) Ethyl Benzene	12.101	91	34526	0.124	ppbv	89
59) m/p-Xylene	12.381	91	23419	0.098	ppbv #	31
60) o-Xylene	13.069	91	18912	0.083	ppbv #	15
74) 1,2,4-Trimethylbenzene	16.127	105	13821	0.053	ppbv #	50

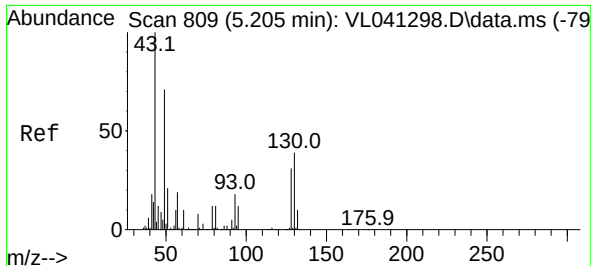
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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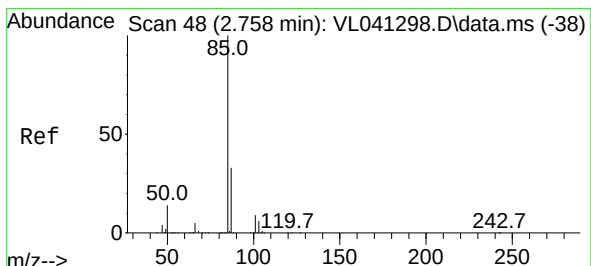
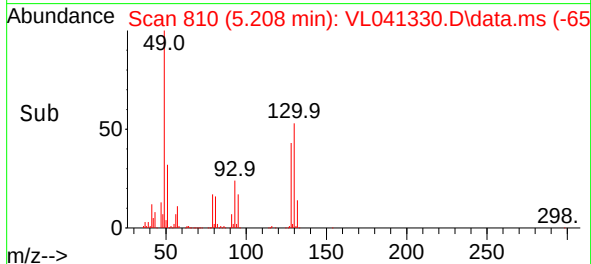
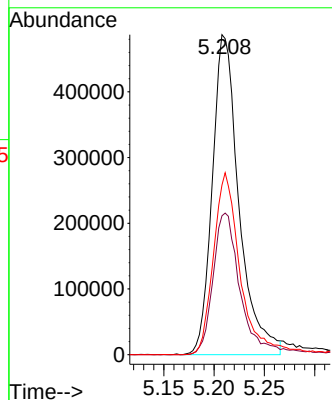
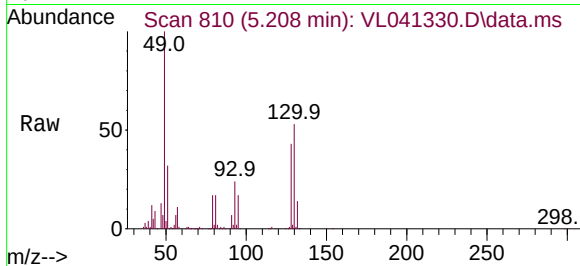




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.208 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL041330.D
 Acq: 5 Jun 2024 16:51

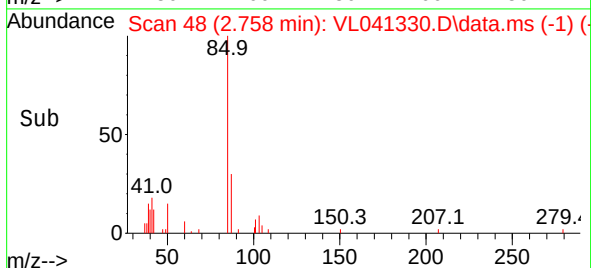
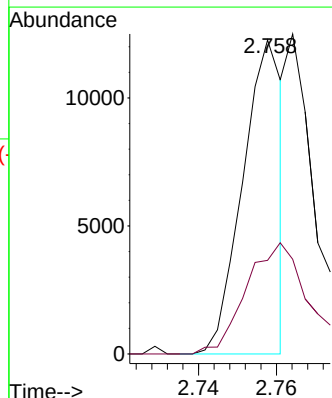
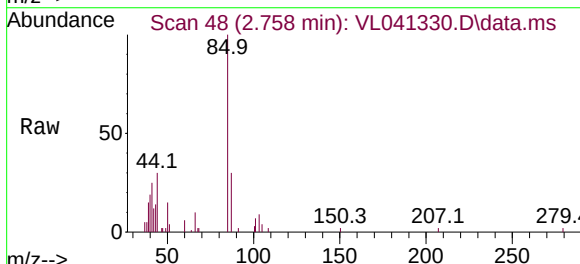
Instrument :
 MSVOA_L
 ClientSampleId :

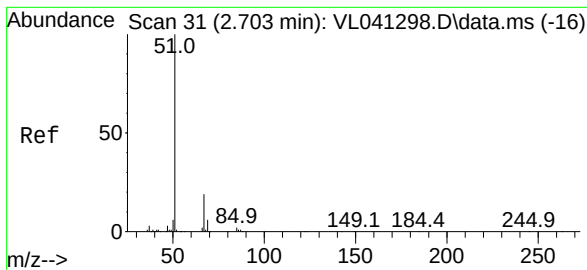
Tgt Ion: 49 Resp: 898700
 Ion Ratio Lower Upper
 49 100
 128 46.9 22.8 68.3
 130 59.0 28.4 85.3



#2
 Dichlorodifluoromethane
 Concen: 0.060 ppbv
 RT: 2.758 min Scan# 48
 Delta R.T. -0.000 min
 Lab File: VL041330.D
 Acq: 5 Jun 2024 16:51

Tgt Ion: 85 Resp: 8644
 Ion Ratio Lower Upper
 85 100
 87 29.8 26.5 39.7

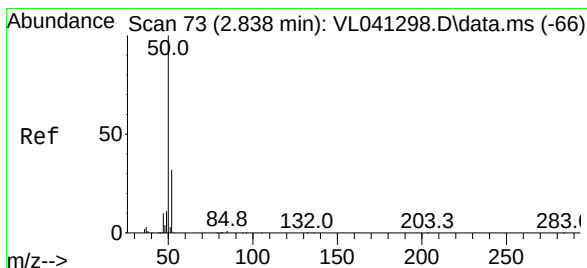
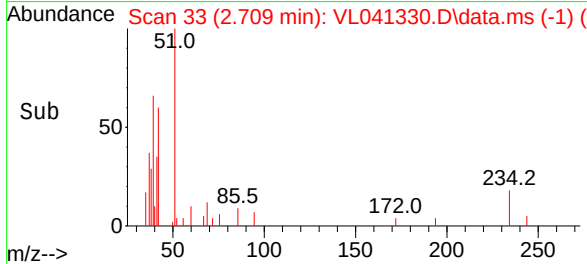
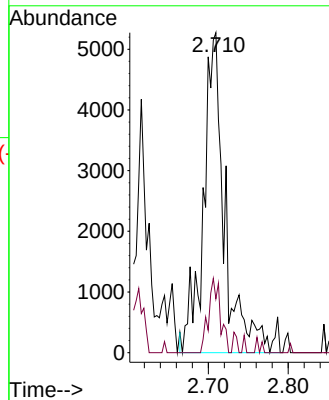
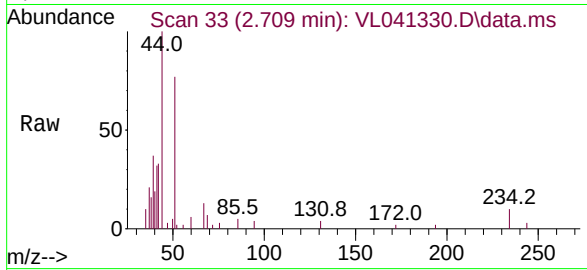




#3
 Chlorodifluoromethane
 Concen: 0.070 ppbv
 RT: 2.709 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: VL041330.D
 Acq: 5 Jun 2024 16:51

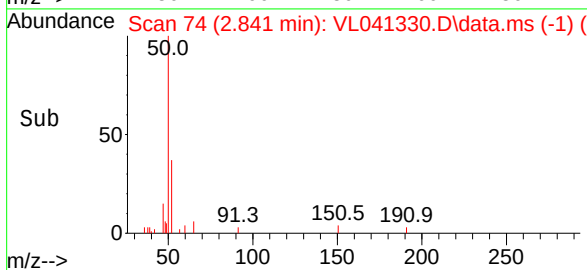
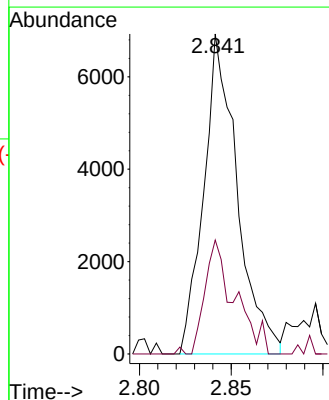
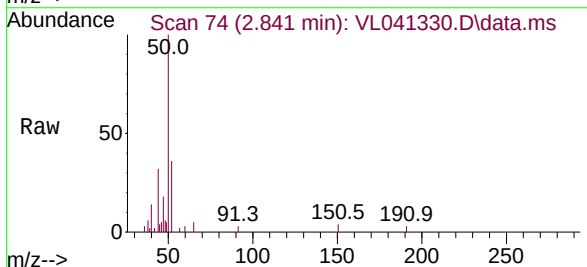
Instrument :
 MSVOA_L
 ClientSampleId :

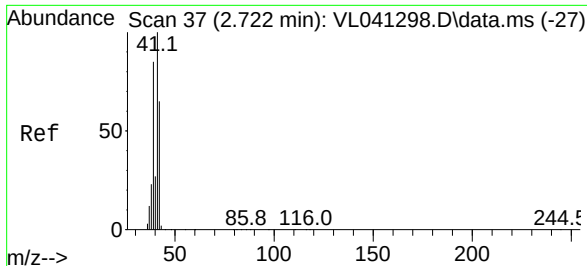
Tgt Ion: 51 Resp: 9872
 Ion Ratio Lower Upper
 51 100
 67 14.6 14.7 22.1#



#4
 Chloromethane
 Concen: 0.164 ppbv
 RT: 2.841 min Scan# 74
 Delta R.T. 0.003 min
 Lab File: VL041330.D
 Acq: 5 Jun 2024 16:51

Tgt Ion: 50 Resp: 8791
 Ion Ratio Lower Upper
 50 100
 52 35.6 25.6 38.4

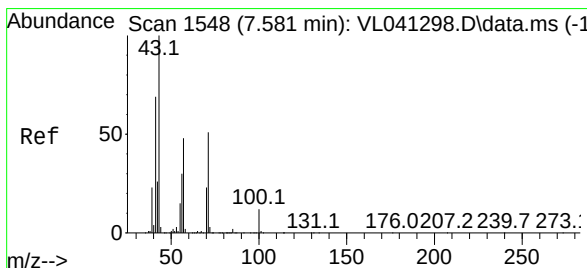
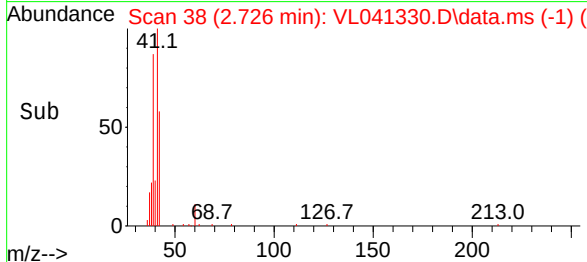
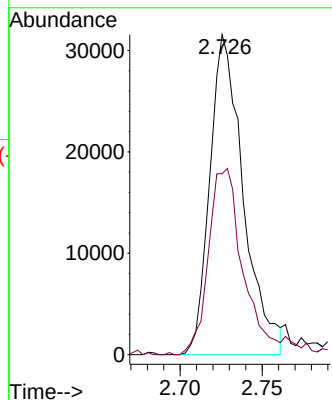
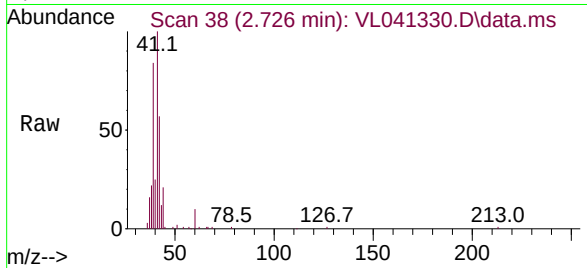




#9
 Propene
 Concen: 0.886 ppbv
 RT: 2.726 min Scan# 30
 Delta R.T. 0.003 min
 Lab File: VL041330.D
 Acq: 5 Jun 2024 16:51

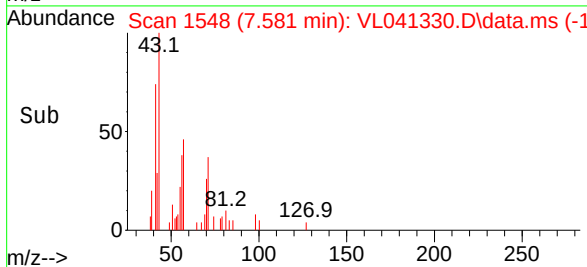
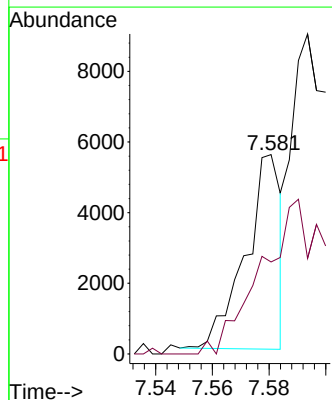
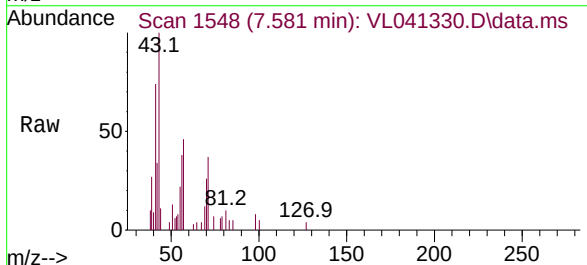
Instrument :
 MSVOA_L
 ClientSampleId :

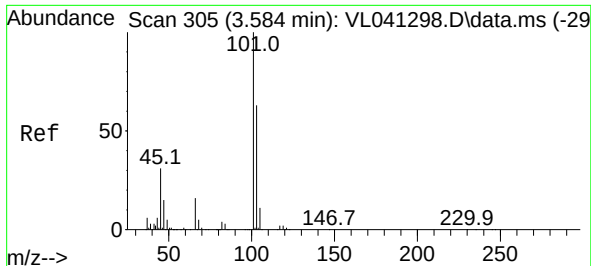
Tgt Ion: 41 Resp: 44796
 Ion Ratio Lower Upper
 41 100
 42 62.9 55.2 82.8



#10
 Heptane
 Concen: 0.040 ppbv
 RT: 7.581 min Scan# 1548
 Delta R.T. -0.000 min
 Lab File: VL041330.D
 Acq: 5 Jun 2024 16:51

Tgt Ion: 43 Resp: 4774
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.0 58.4#





#11

Trichlorofluoromethane

Concen: 0.049 ppbv

RT: 3.587 min Scan# 305

Delta R.T. 0.003 min

Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

Instrument :

MSVOA_L

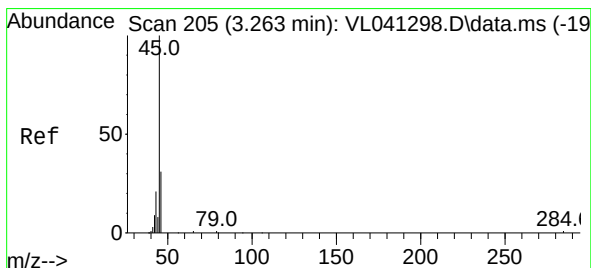
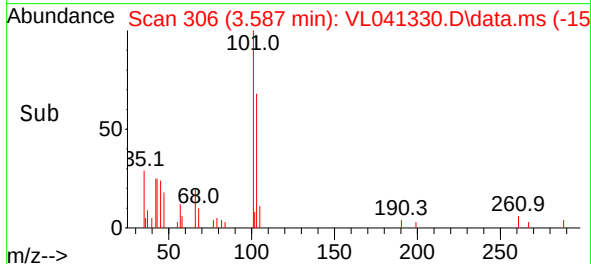
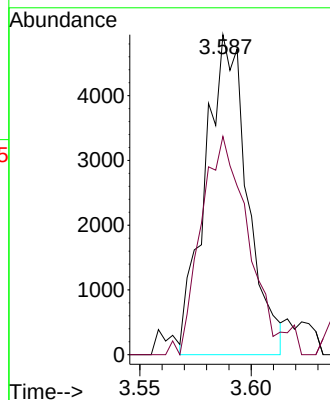
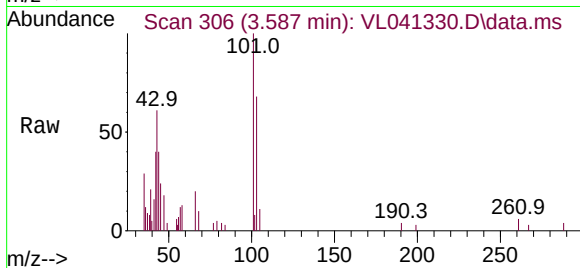
ClientSampleId :

Tgt Ion:101 Resp: 6515

Ion Ratio Lower Upper

101 100

103 70.4 50.6 76.0



#13

Ethanol

Concen: 9.561 ppbv

RT: 3.269 min Scan# 207

Delta R.T. 0.006 min

Lab File: VL041330.D

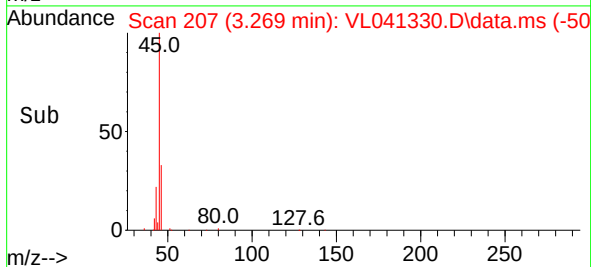
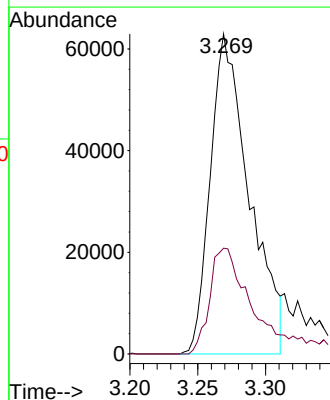
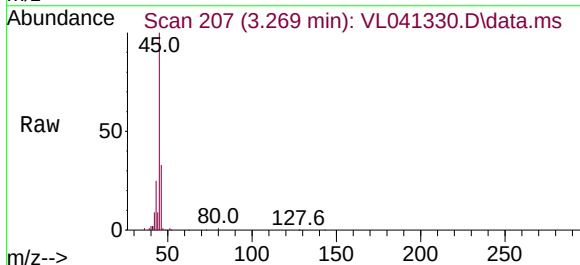
Acq: 5 Jun 2024 16:51

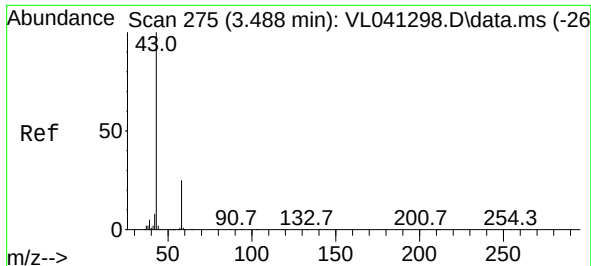
Tgt Ion: 45 Resp: 125831

Ion Ratio Lower Upper

45 100

46 40.9 14.2 56.6





#15

Acetone

Concen: 1.271 ppbv

RT: 3.504 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

Instrument :

MSVOA_L

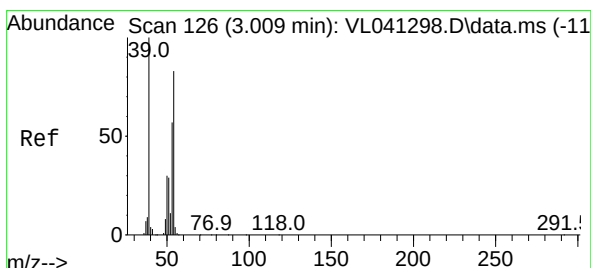
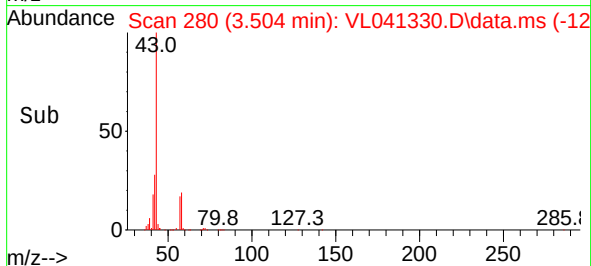
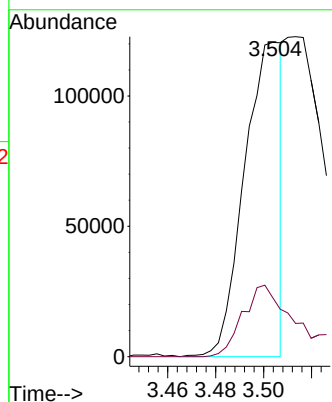
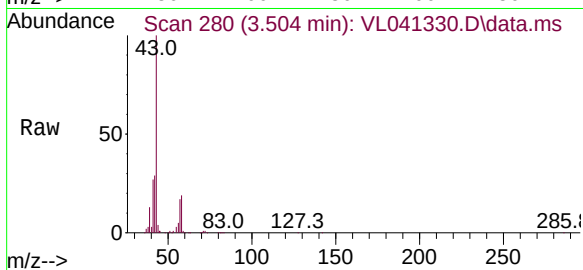
ClientSampleId :

Tgt Ion: 43 Resp: 130387

Ion Ratio Lower Upper

43 100

58 38.7 20.6 31.0#



#16

1,3-Butadiene

Concen: 0.119 ppbv

RT: 3.009 min Scan# 126

Delta R.T. -0.000 min

Lab File: VL041330.D

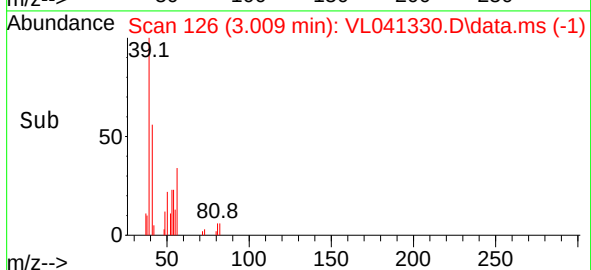
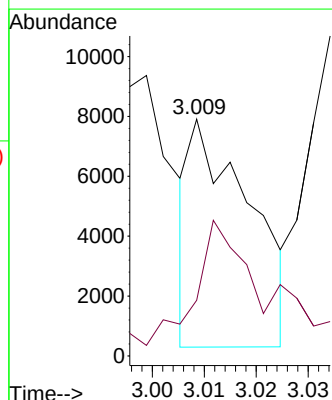
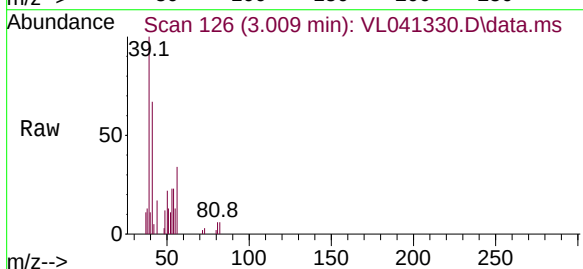
Acq: 5 Jun 2024 16:51

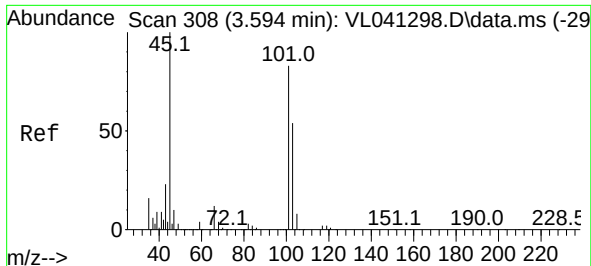
Tgt Ion: 39 Resp: 6117

Ion Ratio Lower Upper

39 100

54 90.3 60.5 90.7





#19

Isopropyl Alcohol

Concen: 0.062 ppbv

RT: 3.603 min Scan# 311

Delta R.T. 0.010 min

Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

Instrument :

MSVOA_L

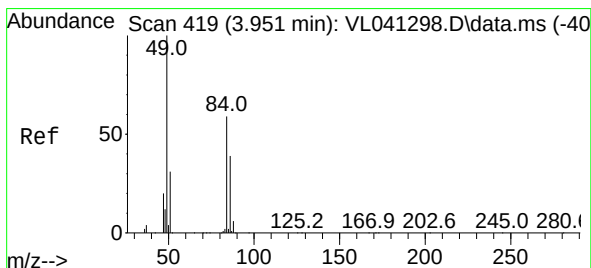
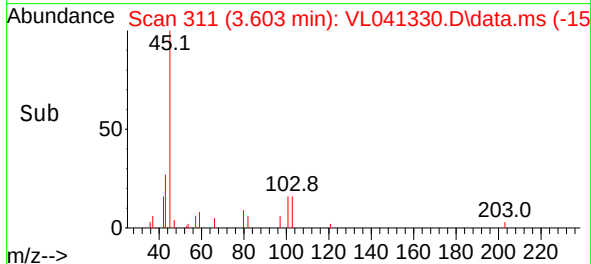
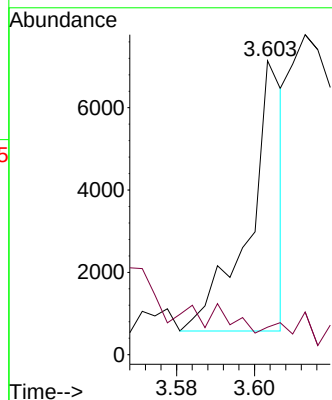
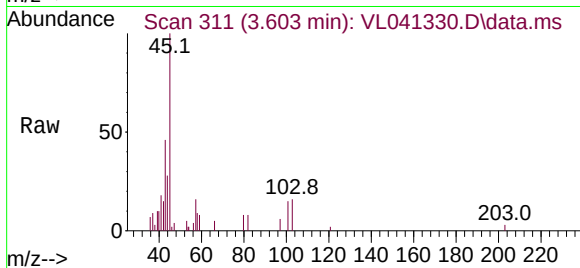
ClientSampleId :

Tgt Ion: 45 Resp: 3989

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



#20

Methylene Chloride

Concen: 22.160 ppbv

RT: 3.954 min Scan# 420

Delta R.T. 0.003 min

Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

Tgt Ion: 84 Resp: 826473

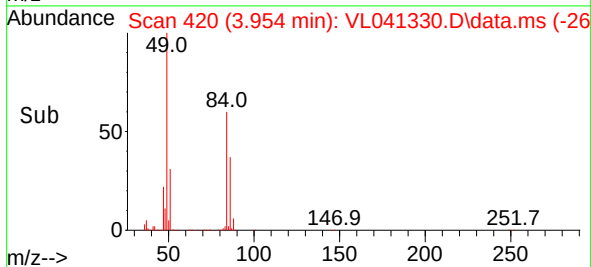
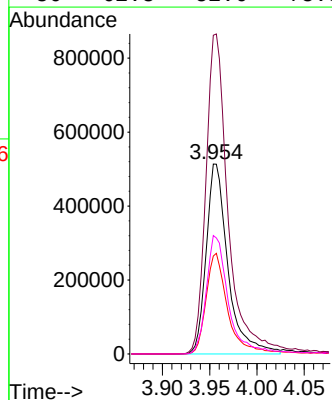
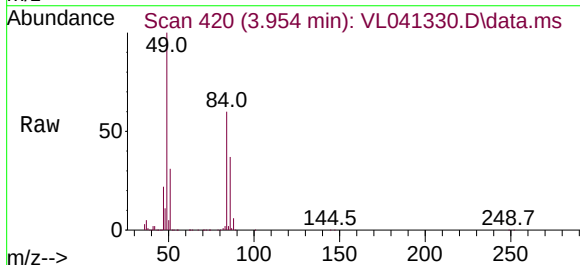
Ion Ratio Lower Upper

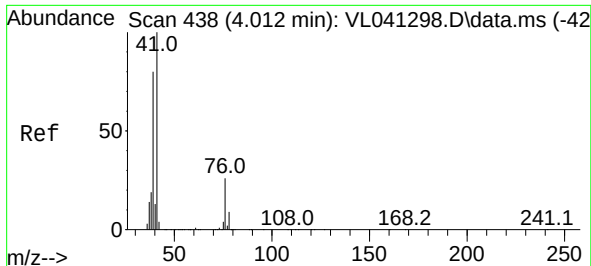
84 100

49 167.8 136.2 204.2

51 51.4 41.9 62.9

86 62.3 52.6 78.8

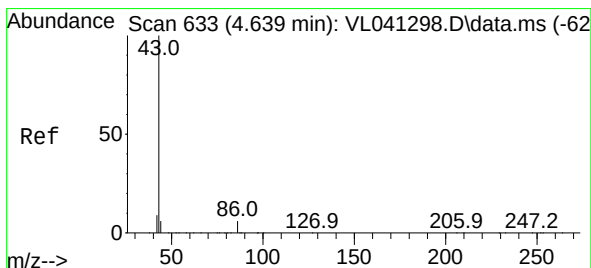
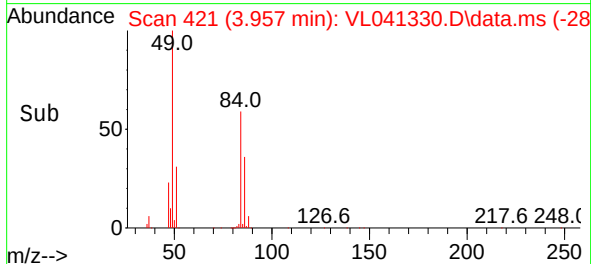
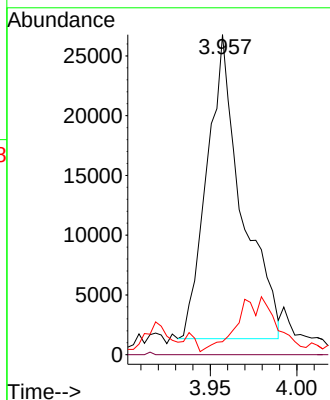
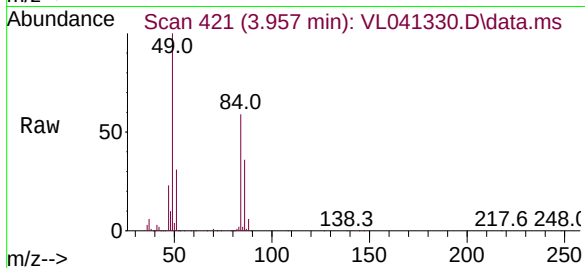




#21
 Allyl Chloride
 Concen: 0.544 ppbv
 RT: 3.957 min Scan# 41
 Delta R.T. -0.055 min
 Lab File: VL041330.D
 Acq: 5 Jun 2024 16:51

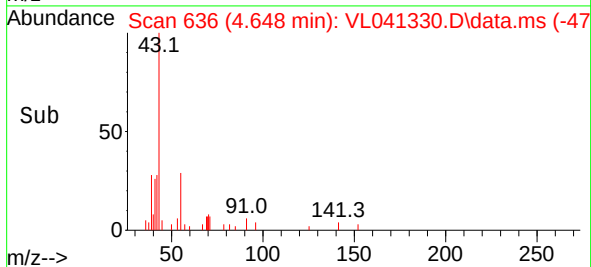
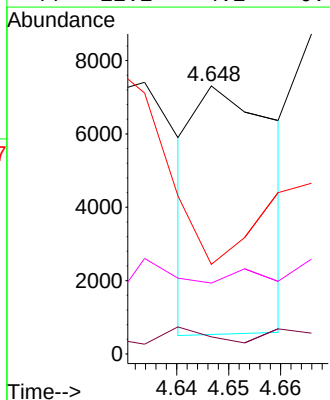
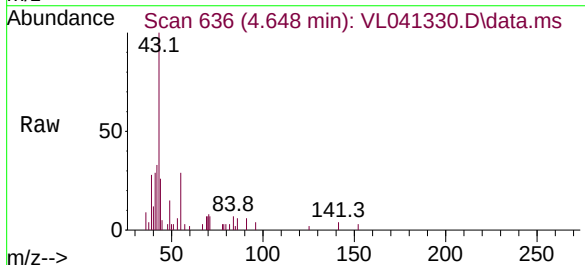
Instrument :
 MSVOA_L
 ClientSampleId :

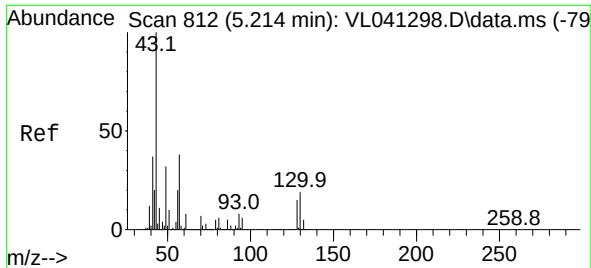
Tgt Ion: 41 Resp: 35377
 Ion Ratio Lower Upper
 41 100
 76 0.0 22.3 33.5#
 39 22.1 66.3 99.5#



#23
 Vinyl Acetate
 Concen: 0.034 ppbv
 RT: 4.648 min Scan# 636
 Delta R.T. 0.010 min
 Lab File: VL041330.D
 Acq: 5 Jun 2024 16:51

Tgt Ion: 43 Resp: 3597
 Ion Ratio Lower Upper
 43 100
 86 0.0 4.7 7.1#
 42 0.0 8.0 12.0#
 44 22.2 4.2 6.4#

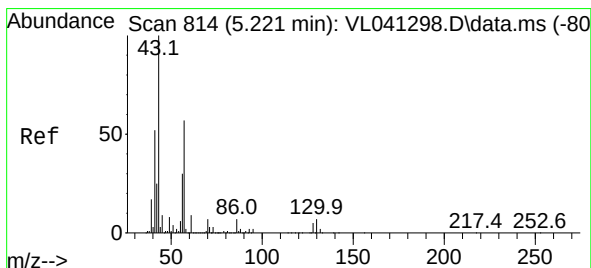
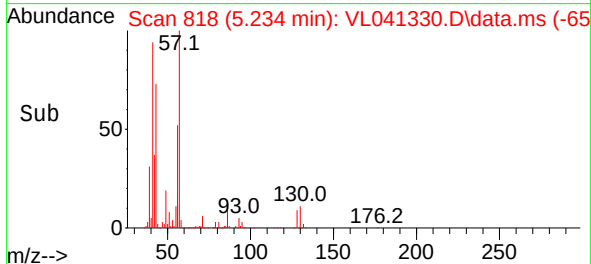
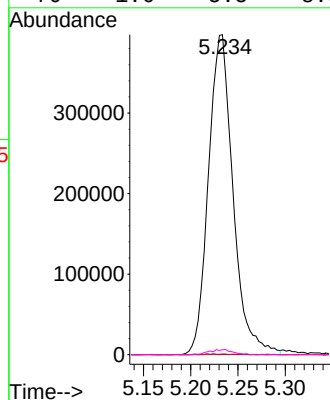
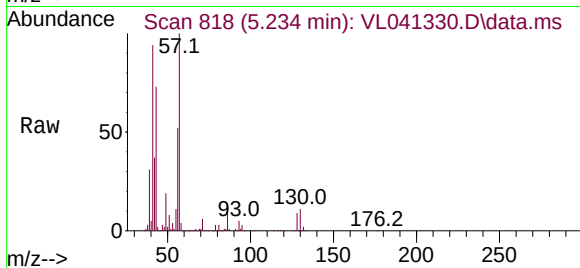




#25
Ethyl Acetate
Concen: 3.548 ppbv
RT: 5.234 min Scan# 812
Delta R.T. 0.019 min
Lab File: VL041330.D
Acq: 5 Jun 2024 16:51

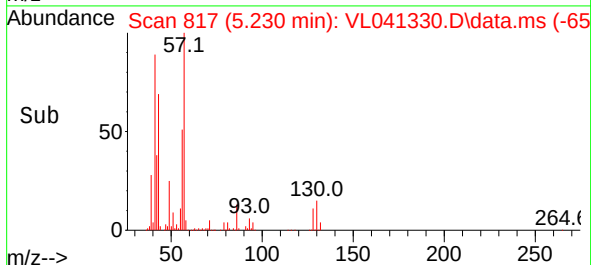
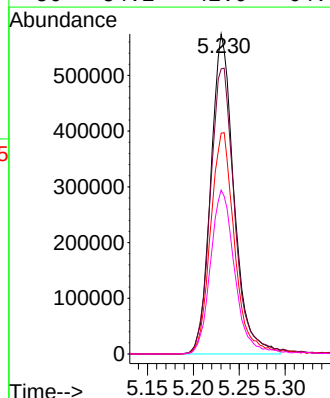
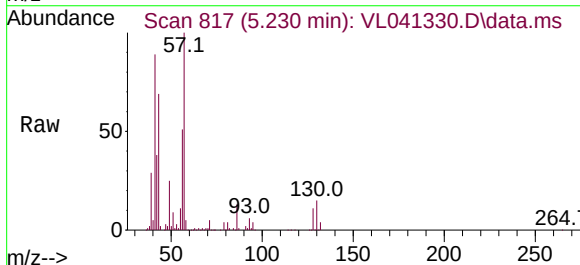
Instrument :
MSVOA_L
ClientSampleId :

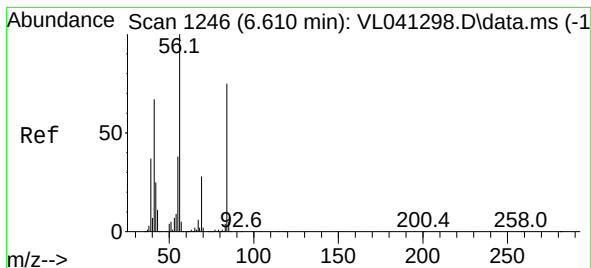
Tgt Ion: 43 Resp: 720261
Ion Ratio Lower Upper
43 100
45 0.2 8.1 12.1#
61 0.2 7.4 11.0#
70 1.6 5.5 8.3#



#26
Hexane
Concen: 11.051 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.010 min
Lab File: VL041330.D
Acq: 5 Jun 2024 16:51

Tgt Ion: 57 Resp: 1008819
Ion Ratio Lower Upper
57 100
41 95.4 77.1 115.7
43 72.4 186.1 279.1#
56 54.2 42.9 64.3





#30

Cyclohexane

Concen: 0.041 ppbv

RT: 6.610 min Scan# 1246

Delta R.T. -0.000 min

Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

Instrument :

MSVOA_L

ClientSampleId :

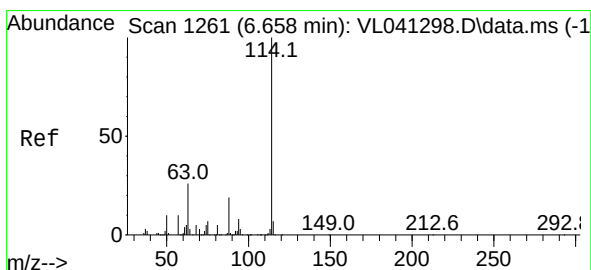
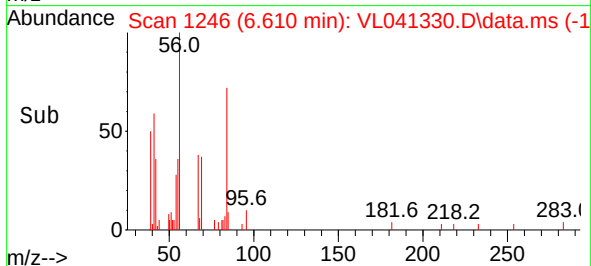
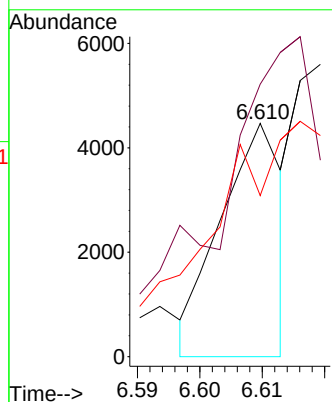
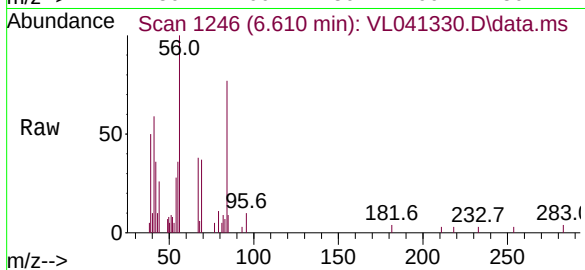
Tgt Ion: 84 Resp: 3052

Ion Ratio Lower Upper

84 100

56 0.0 114.9 172.3#

41 0.0 74.4 111.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.668 min Scan# 1264

Delta R.T. 0.010 min

Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

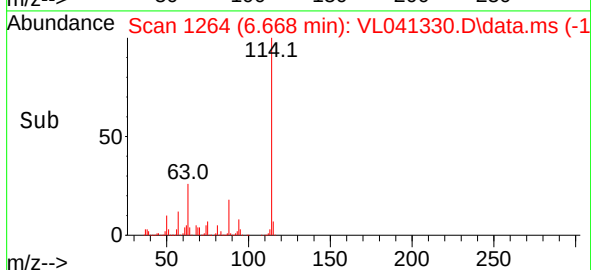
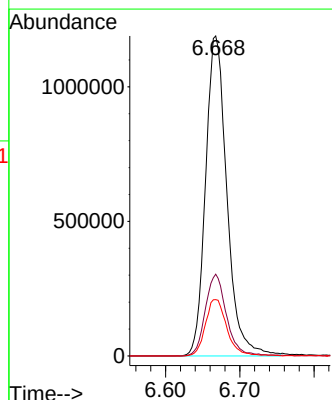
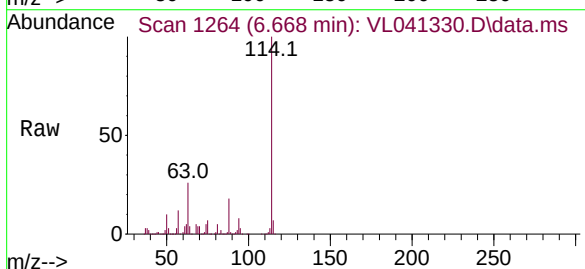
Tgt Ion: 114 Resp: 2371042

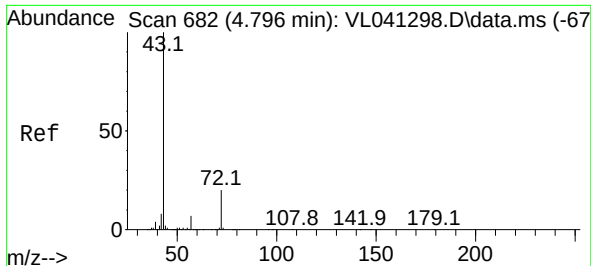
Ion Ratio Lower Upper

114 100

63 25.5 20.6 30.8

88 18.0 14.5 21.7





#34

2-Butanone

Concen: 0.095 ppbv

RT: 4.825 min Scan# 61

Delta R.T. 0.029 min

Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

Instrument :

MSVOA_L

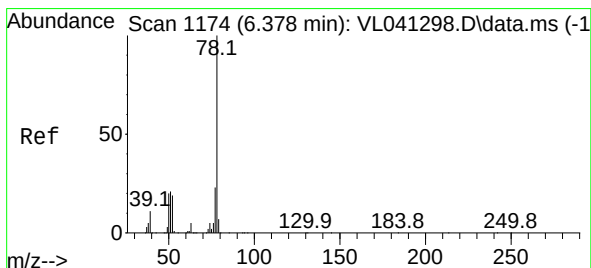
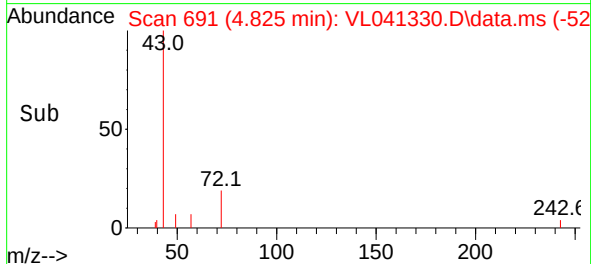
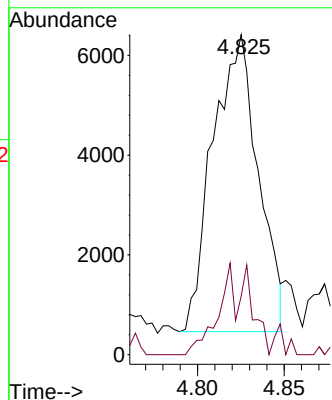
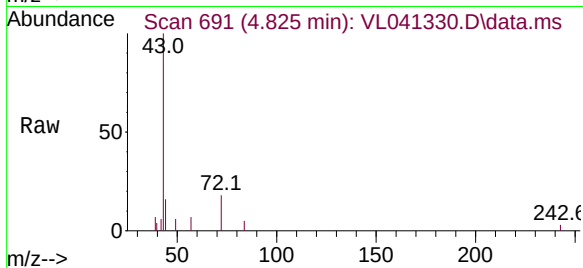
ClientSampleId :

Tgt Ion: 43 Resp: 10837

Ion Ratio Lower Upper

43 100

72 21.9 17.4 26.0



#36

Benzene

Concen: 0.292 ppbv

RT: 6.388 min Scan# 1177

Delta R.T. 0.010 min

Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

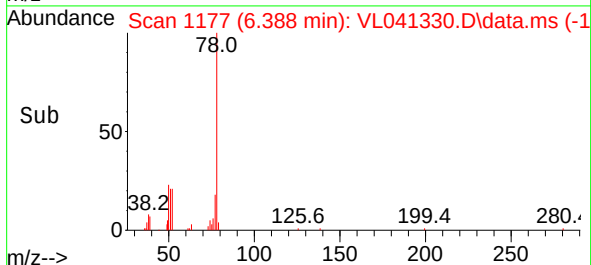
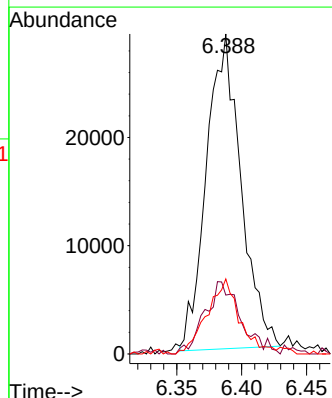
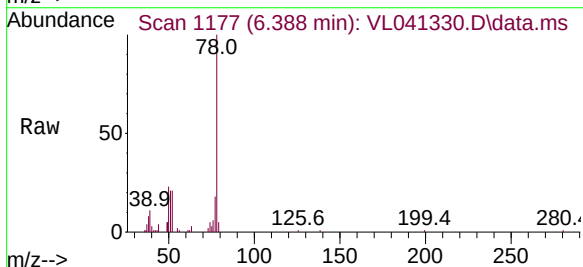
Tgt Ion: 78 Resp: 53728

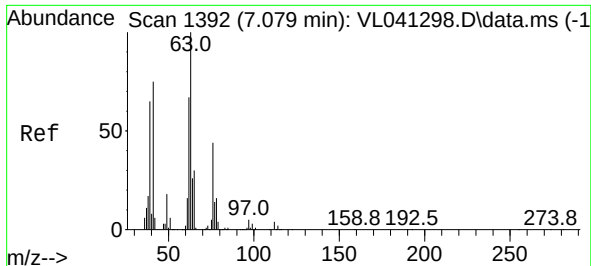
Ion Ratio Lower Upper

78 100

77 18.9 18.6 28.0

50 21.9 16.0 24.0





#39

1,2-Dichloropropane

Concen: 8.030 ppbv

RT: 6.668 min Scan# 1

Delta R.T. -0.412 min

Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

Instrument :

MSVOA_L

ClientSampleId :

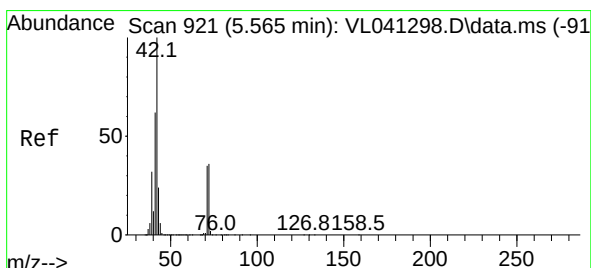
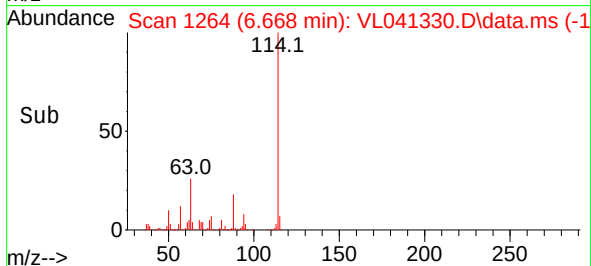
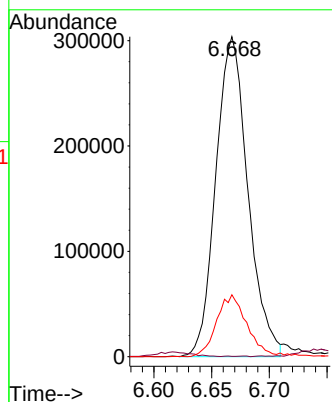
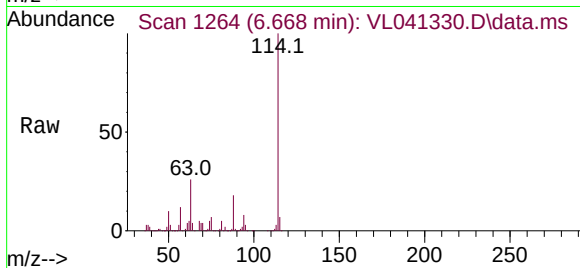
Tgt Ion: 63 Resp: 587621

Ion Ratio Lower Upper

63 100

41 0.0 59.9 89.9#

62 19.2 53.8 80.6#



#41

Tetrahydrofuran

Concen: 0.094 ppbv

RT: 5.838 min Scan# 1006

Delta R.T. 0.273 min

Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

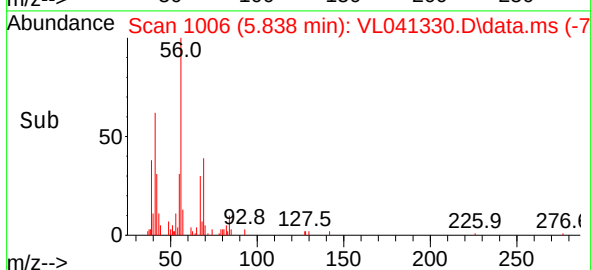
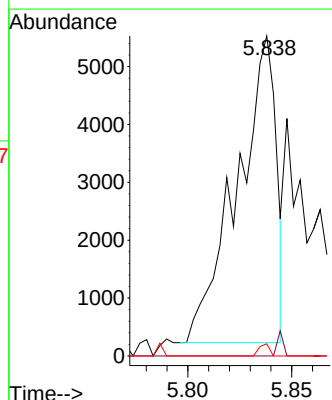
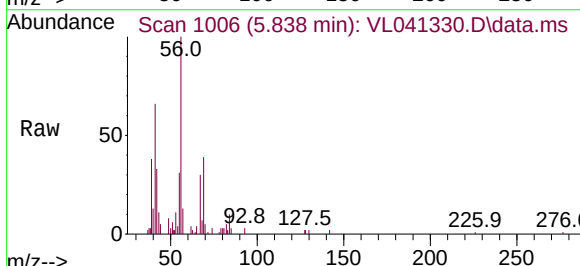
Tgt Ion: 42 Resp: 6918

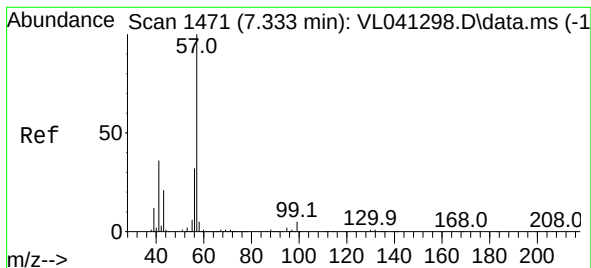
Ion Ratio Lower Upper

42 100

72 1.5 30.2 45.4#

71 0.0 30.3 45.5#





#44

2,2,4-Trimethylpentane

Concen: 0.052 ppbv

RT: 7.349 min Scan# 1471

Delta R.T. 0.016 min

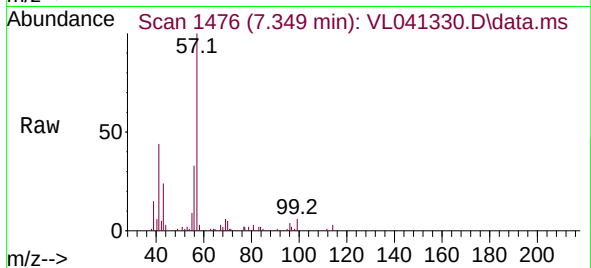
Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

Instrument :

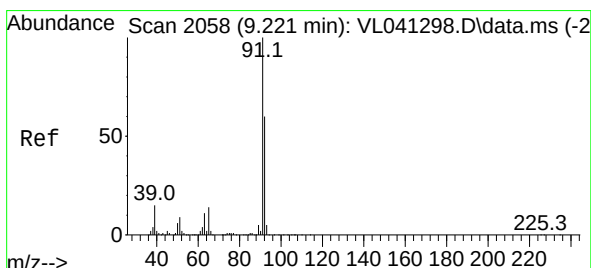
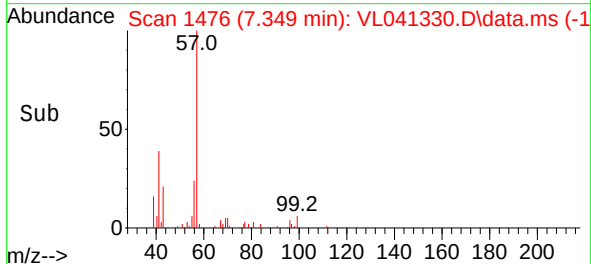
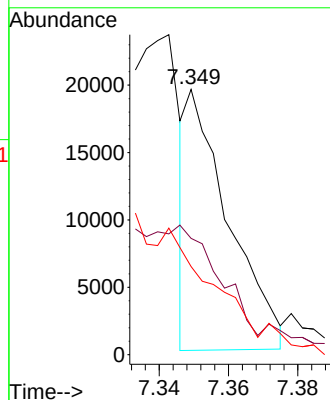
MSVOA_L

ClientSampleId :



Tgt Ion: 57 Resp: 16386

Ion	Ratio	Lower	Upper
57	100		
41	158.5	29.4	44.2#
56	0.0	25.0	37.4#



#53

Toluene

Concen: 0.718 ppbv

RT: 9.233 min Scan# 2062

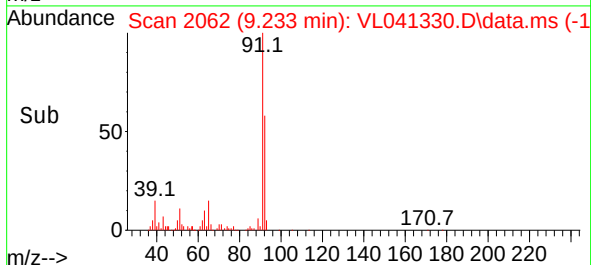
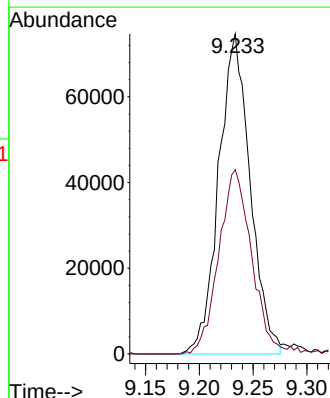
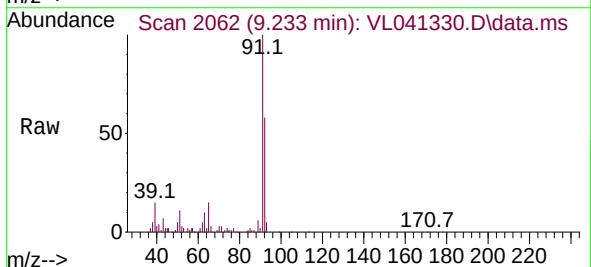
Delta R.T. 0.013 min

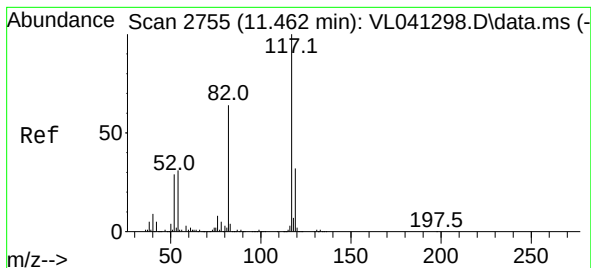
Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

Tgt Ion: 91 Resp: 151848

Ion	Ratio	Lower	Upper
91	100		
92	61.2	49.2	73.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.478 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

Instrument :

MSVOA_L

ClientSampleId :

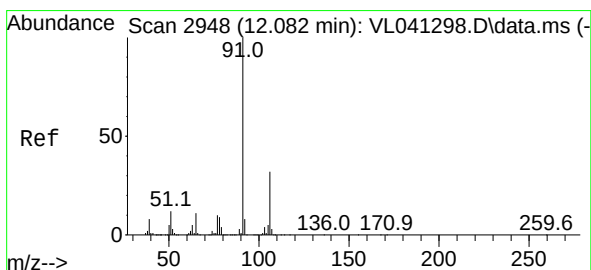
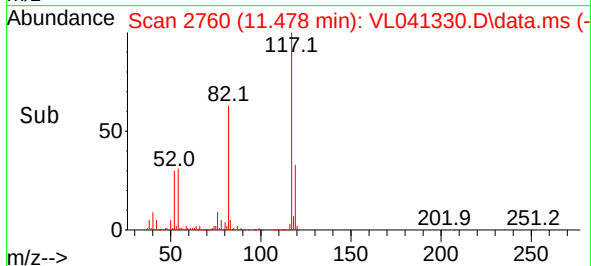
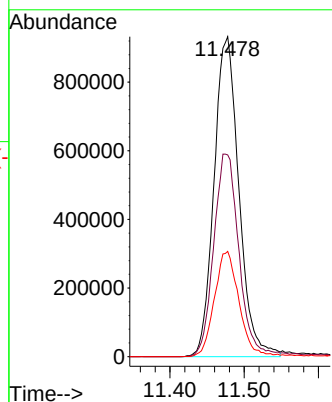
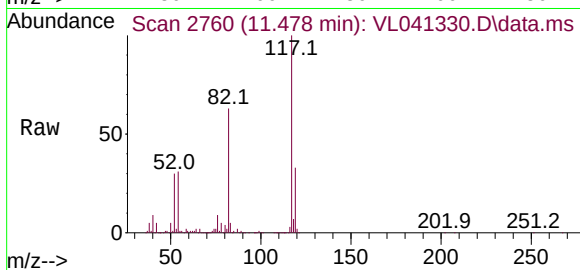
Tgt Ion:117 Resp: 2169660

Ion Ratio Lower Upper

117 100

82 66.0 52.3 78.5

119 33.3 26.2 39.2



#58

Ethyl Benzene

Concen: 0.124 ppbv

RT: 12.101 min Scan# 2954

Delta R.T. 0.019 min

Lab File: VL041330.D

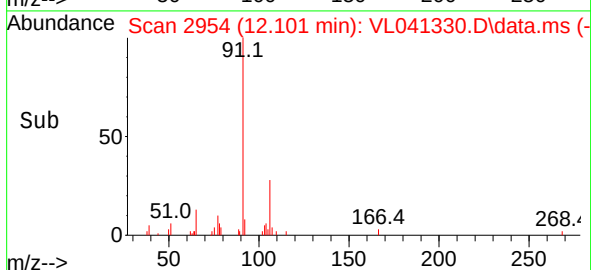
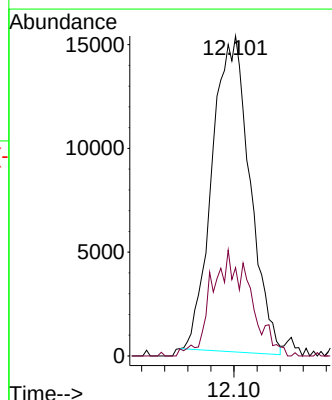
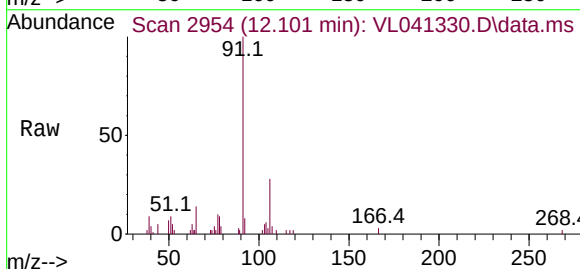
Acq: 5 Jun 2024 16:51

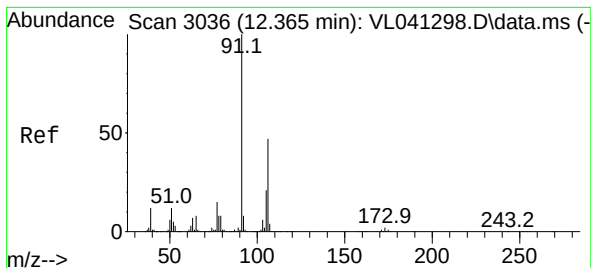
Tgt Ion: 91 Resp: 34526

Ion Ratio Lower Upper

91 100

106 26.0 25.5 38.3





#59

m/p-Xylene

Concen: 0.098 ppbv

RT: 12.381 min Scan# 3041

Delta R.T. 0.016 min

Lab File: VL041330.D

Acq: 5 Jun 2024 16:51

Instrument :

MSVOA_L

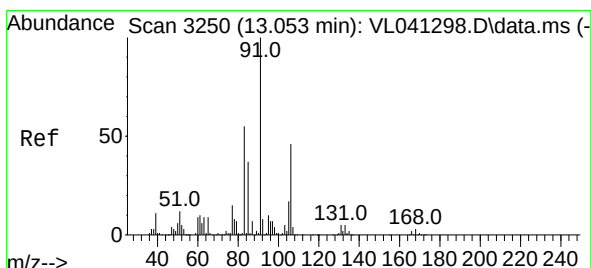
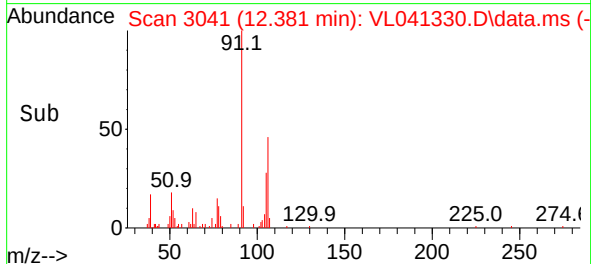
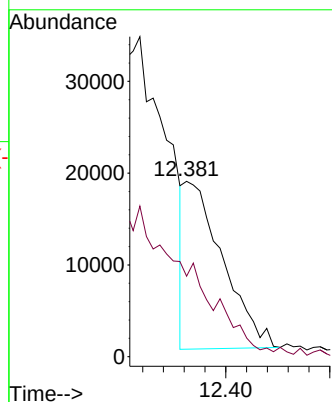
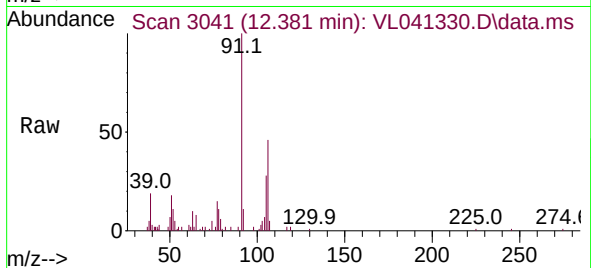
ClientSampleId :

Tgt Ion: 91 Resp: 23419

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#



#60

o-Xylene

Concen: 0.083 ppbv

RT: 13.069 min Scan# 3255

Delta R.T. 0.016 min

Lab File: VL041330.D

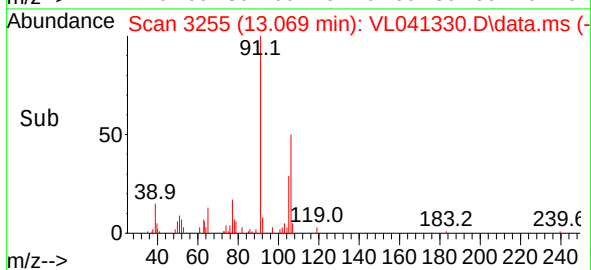
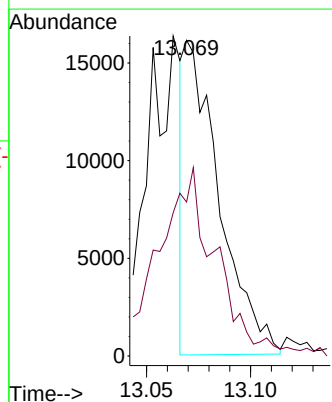
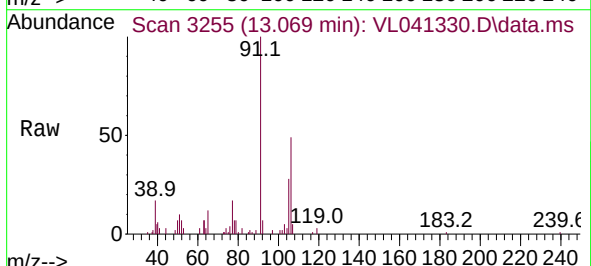
Acq: 5 Jun 2024 16:51

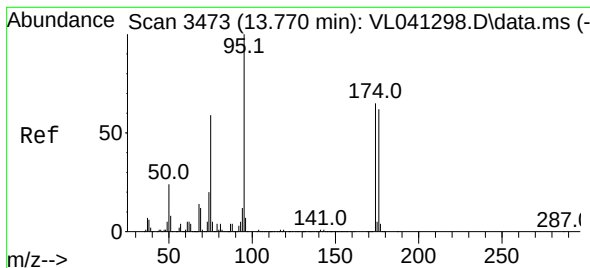
Tgt Ion: 91 Resp: 18912

Ion Ratio Lower Upper

91 100

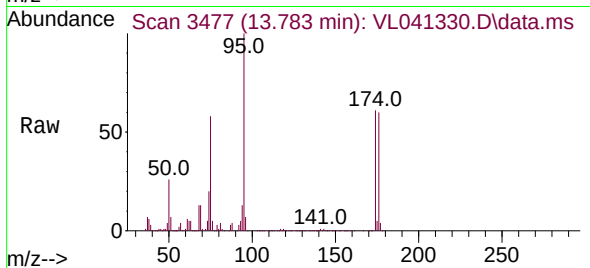
106 101.8 22.8 68.4#



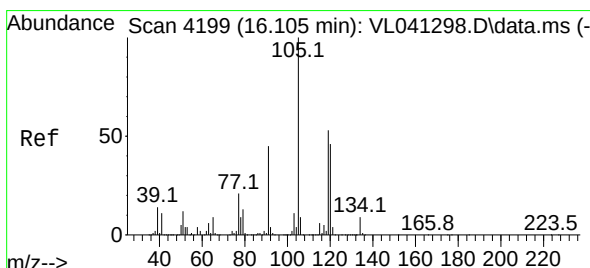
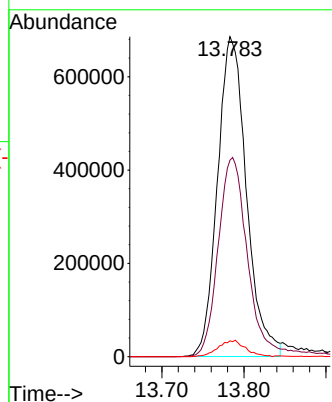
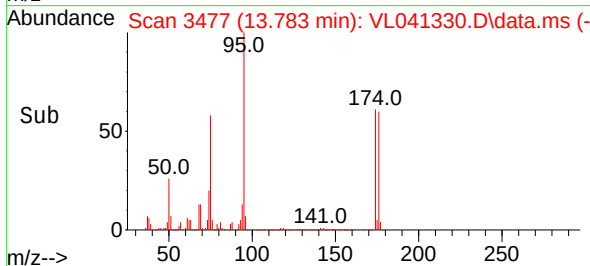


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.032 ppbv
 RT: 13.783 min Scan# 3473
 Delta R.T. 0.013 min
 Lab File: VL041330.D
 Acq: 5 Jun 2024 16:51

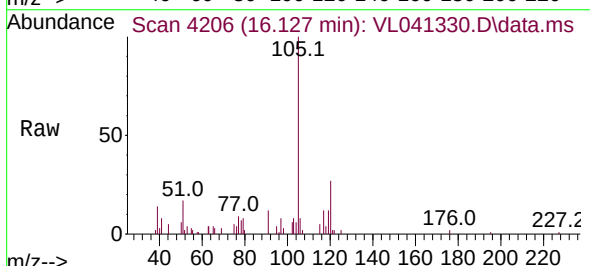
Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 1680501
 Ion Ratio Lower Upper
 95 100
 174 64.8 52.2 78.2
 175 5.0 4.1 6.1



#74
 1,2,4-Trimethylbenzene
 Concen: 0.053 ppbv
 RT: 16.127 min Scan# 4206
 Delta R.T. 0.022 min
 Lab File: VL041330.D
 Acq: 5 Jun 2024 16:51



Tgt Ion:105 Resp: 13821
 Ion Ratio Lower Upper
 105 100
 120 15.4 37.0 55.6#
 91 7.0 36.2 54.4#
 77 2.5 16.6 24.8#

