

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080824\
 Data File : VL041512.D
 Acq On : 8 Aug 2024 14:26
 Operator : SY/MD
 Sample : P3496-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 09 05:55:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 06 01:32:58 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	874594	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2303723	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2161903	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1583653	9.519	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%

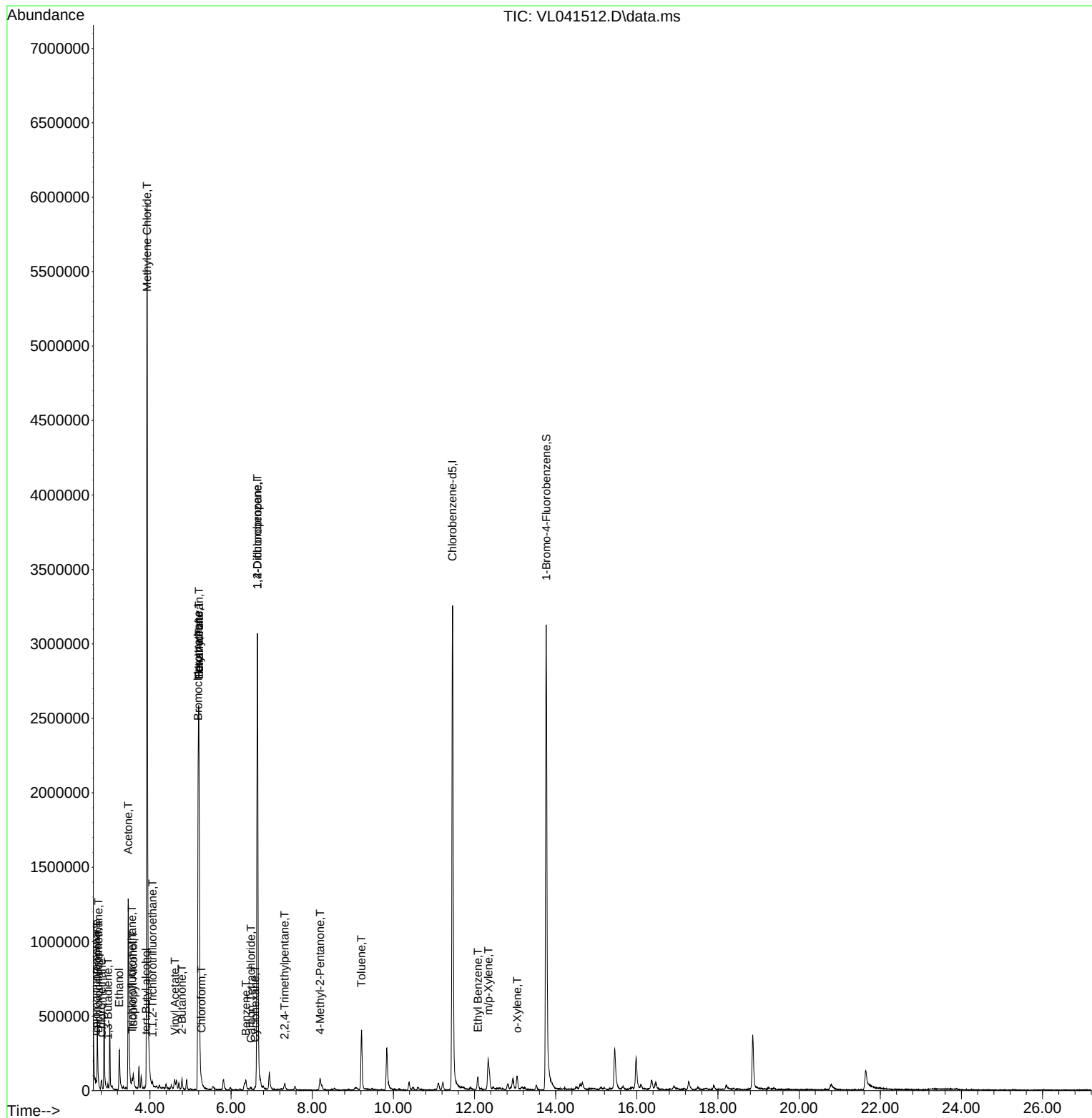
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.732	85	34154	0.227	ppbv	90
3) Chlorodifluoromethane	2.674	51	67588	0.649	ppbv #	84
4) Chloromethane	2.816	50	32983	0.596	ppbv	99
9) Propene	2.703	41	91804	1.919	ppbv #	69
11) Trichlorofluoromethane	3.558	101	32046	0.240	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.063	101	6092	0.063	ppbv	86
13) Ethanol	3.243	45	282755	66.144	ppbv	99
15) Acetone	3.465	43	1338944	13.474	ppbv	100
16) 1,3-Butadiene	2.964	39	7218	0.136	ppbv #	36
17) tert-Butyl alcohol	3.902	59	10825	0.119	ppbv #	72
19) Isopropyl Alcohol	3.587	45	85602	1.473	ppbv #	1
20) Methylene Chloride	3.931	84	2053768	55.423	ppbv	99
23) Vinyl Acetate	4.613	43	42711	0.563	ppbv #	56
25) Ethyl Acetate	5.208	43	567396	2.874	ppbv #	77
26) Hexane	5.208	57	769414	9.395	ppbv #	38
29) Chloroform	5.269	83	8820	0.066	ppbv #	79
30) Cyclohexane	6.594	84	2188	0.033	ppbv #	1
34) 2-Butanone	4.790	43	72397	0.650	ppbv	96
35) Carbon Tetrachloride	6.487	117	4702	0.037	ppbv #	87
36) Benzene	6.365	78	38560	0.229	ppbv	97
39) 1,2-Dichloropropane	6.648	63	569365	8.835	ppbv #	25
41) Tetrahydrofuran	5.208	42	314939	4.941	ppbv #	49
44) 2,2,4-Trimethylpentane	7.317	57	23051	0.082	ppbv #	49
50) 4-Methyl-2-Pentanone	8.195	43	63491	0.361	ppbv	95
53) Toluene	9.214	91	305606	1.630	ppbv	99
58) Ethyl Benzene	12.082	91	74254	0.298	ppbv	90
59) m/p-Xylene	12.339	91	145794	0.678	ppbv #	61
60) o-Xylene	13.053	91	36590	0.180	ppbv #	40

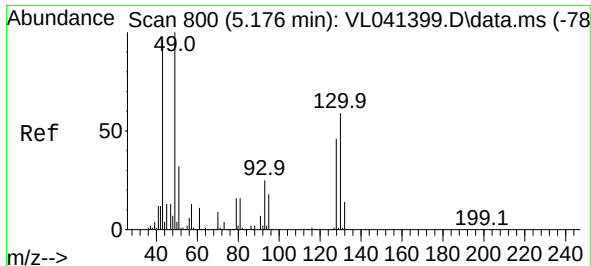
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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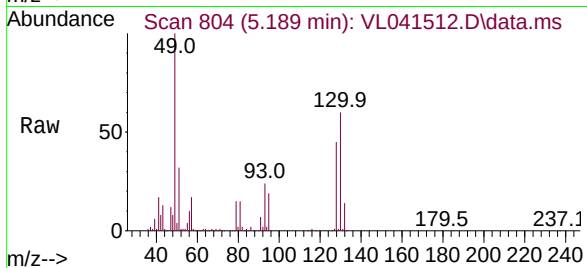
Quant Time: Aug 09 05:55:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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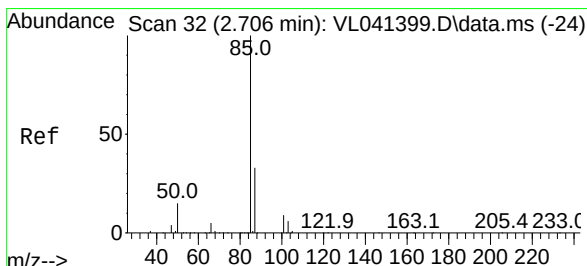
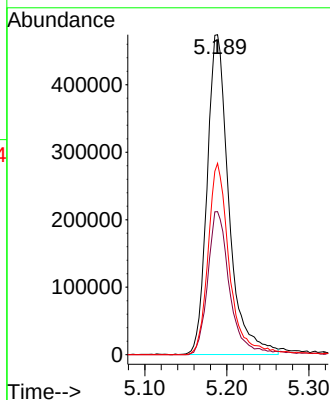
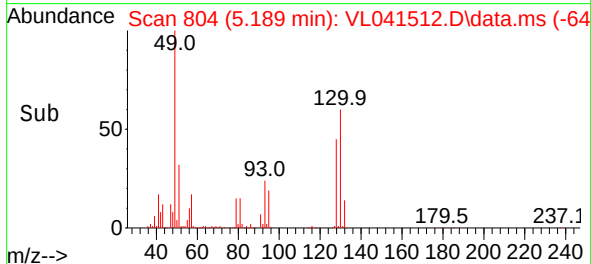


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.000 min
Lab File: VL041512.D
Acq: 8 Aug 2024 14:26

Instrument :
MSVOA_L
ClientSampleId :

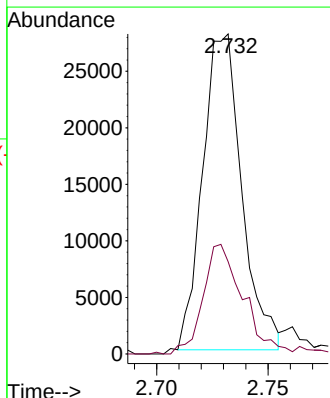
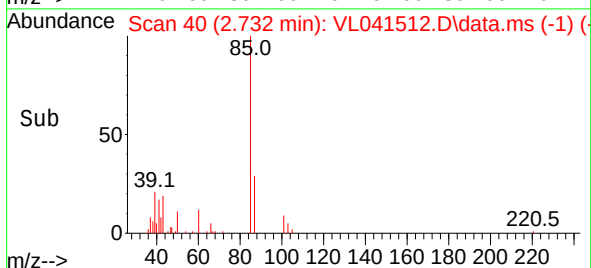
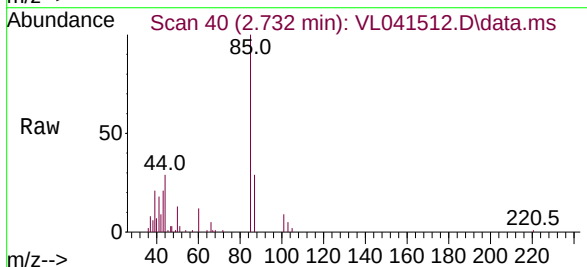


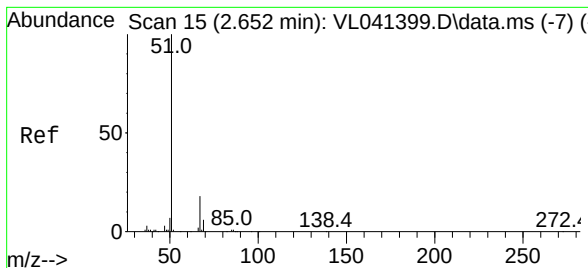
Tgt Ion: 49 Resp: 874594
Ion Ratio Lower Upper
49 100
128 45.6 23.8 71.4
130 60.1 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.227 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.000 min
Lab File: VL041512.D
Acq: 8 Aug 2024 14:26

Tgt Ion: 85 Resp: 34154
Ion Ratio Lower Upper
85 100
87 26.8 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.649 ppbv

RT: 2.674 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Instrument :

MSVOA_L

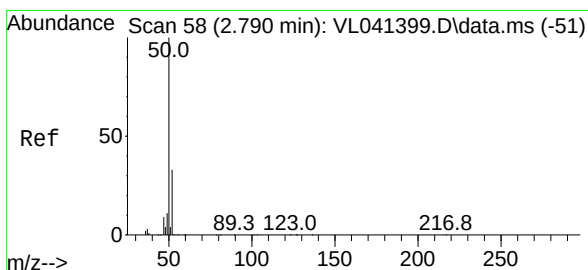
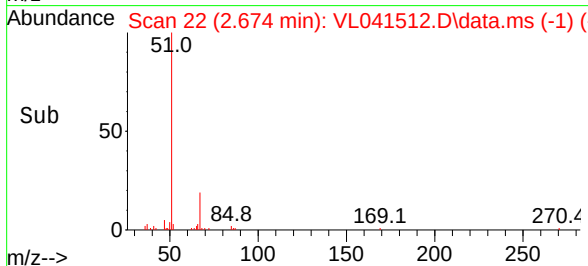
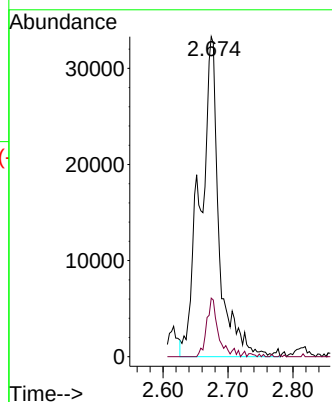
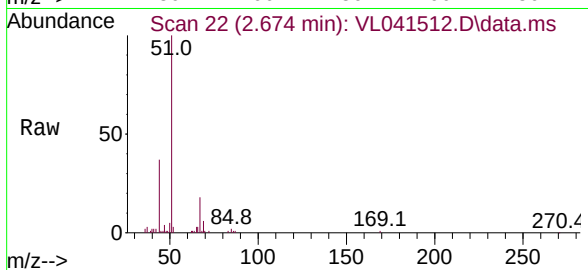
ClientSampleId :

Tgt Ion: 51 Resp: 67588

Ion Ratio Lower Upper

51 100

67 11.2 14.5 21.7#



#4

Chloromethane

Concen: 0.596 ppbv

RT: 2.816 min Scan# 66

Delta R.T. 0.000 min

Lab File: VL041512.D

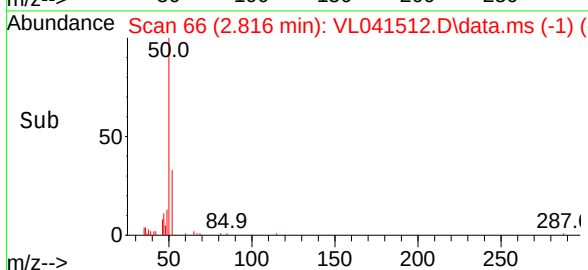
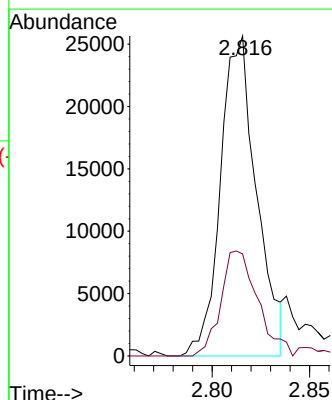
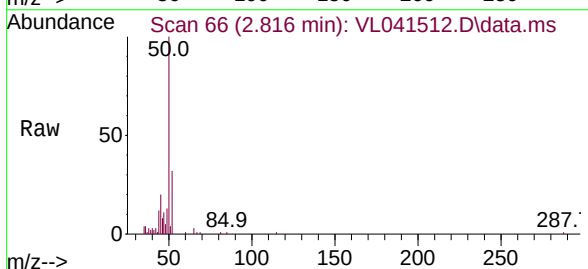
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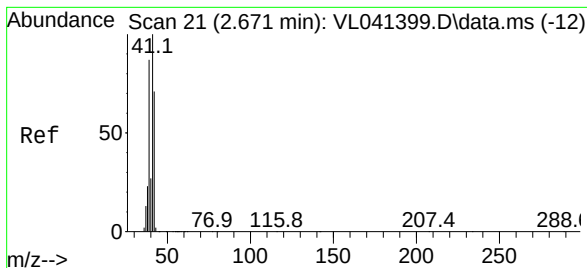
Tgt Ion: 50 Resp: 32983

Ion Ratio Lower Upper

50 100

52 31.9 26.1 39.1





#9

Propene

Concen: 1.919 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Instrument :

MSVOA_L

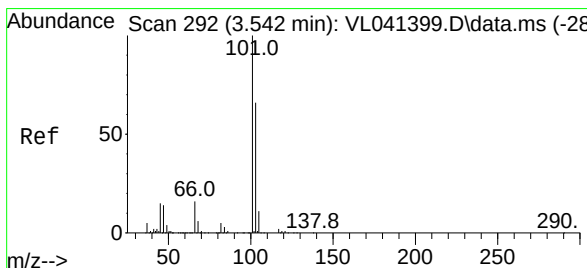
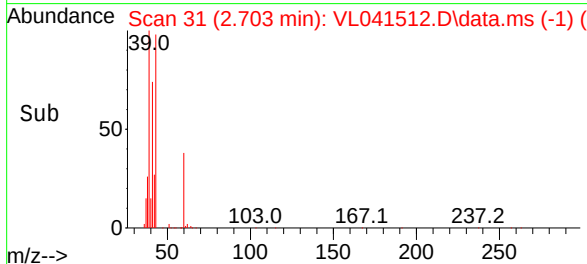
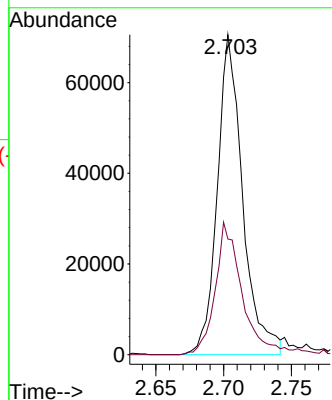
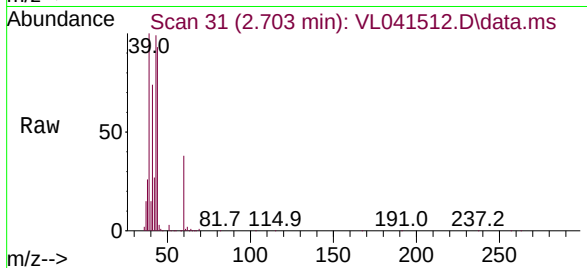
ClientSampleId :

Tgt Ion: 41 Resp: 91804

Ion Ratio Lower Upper

41 100

42 44.9 55.9 83.9#



#11

Trichlorofluoromethane

Concen: 0.240 ppbv

RT: 3.558 min Scan# 297

Delta R.T. -0.003 min

Lab File: VL041512.D

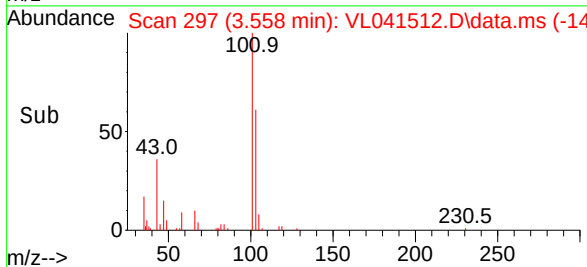
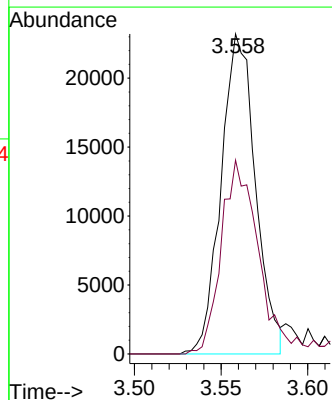
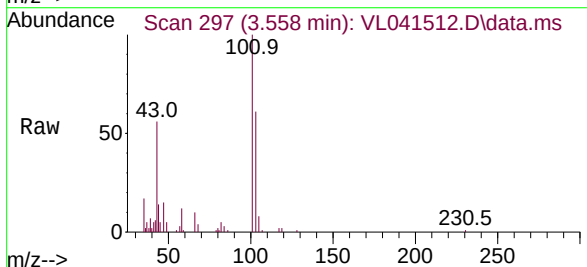
Acq: 8 Aug 2024 14:26

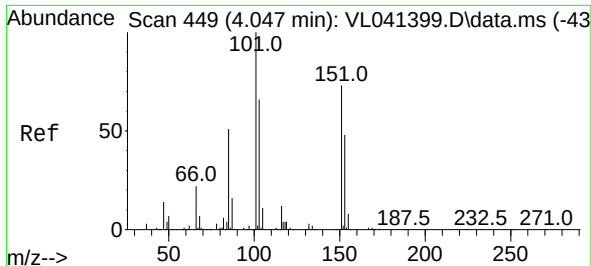
Tgt Ion:101 Resp: 32046

Ion Ratio Lower Upper

101 100

103 60.6 52.6 79.0

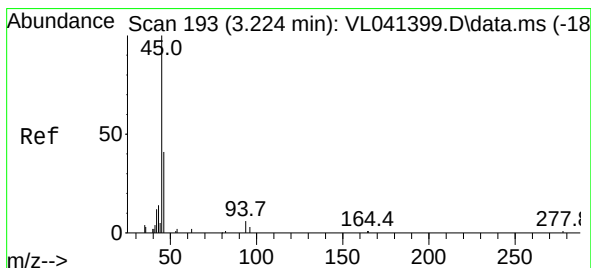
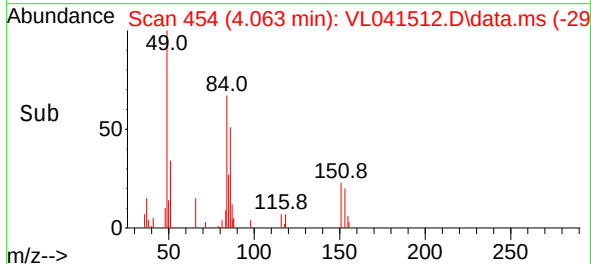
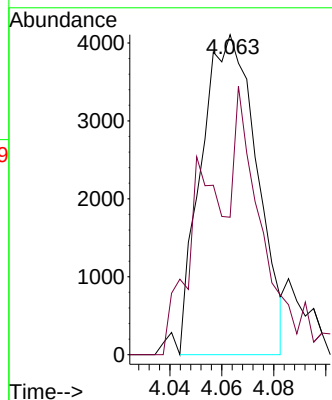
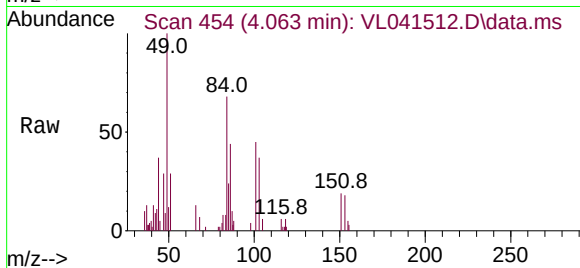




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.063 ppbv
RT: 4.063 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041512.D
Acq: 8 Aug 2024 14:26

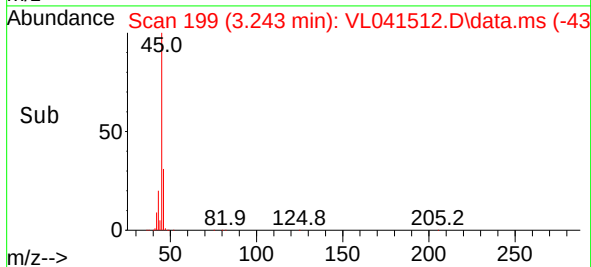
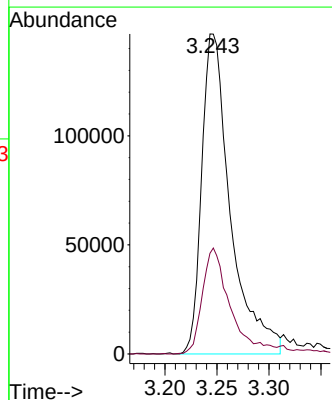
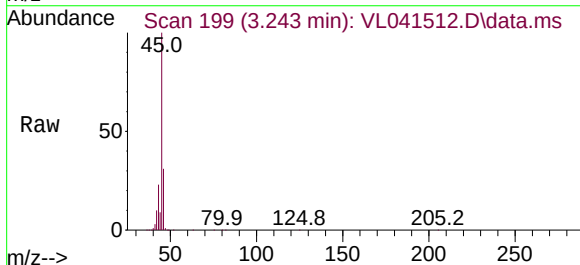
Instrument :
MSVOA_L
ClientSampleId :

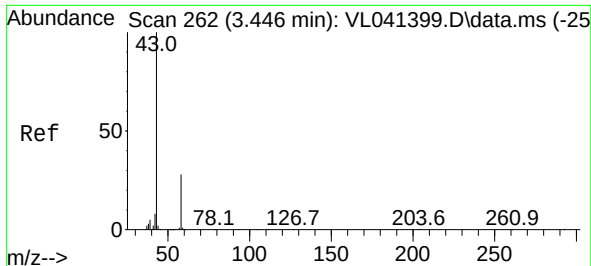
Tgt Ion:101 Resp: 6092
Ion Ratio Lower Upper
101 100
151 86.2 59.4 89.2



#13
Ethanol
Concen: 66.144 ppbv
RT: 3.243 min Scan# 199
Delta R.T. 0.000 min
Lab File: VL041512.D
Acq: 8 Aug 2024 14:26

Tgt Ion: 45 Resp: 282755
Ion Ratio Lower Upper
45 100
46 34.0 13.4 53.4





#15

Acetone

Concen: 13.474 ppbv

RT: 3.465 min Scan# 2

Delta R.T. -0.003 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Instrument :

MSVOA_L

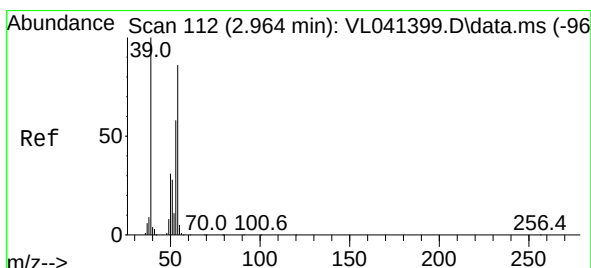
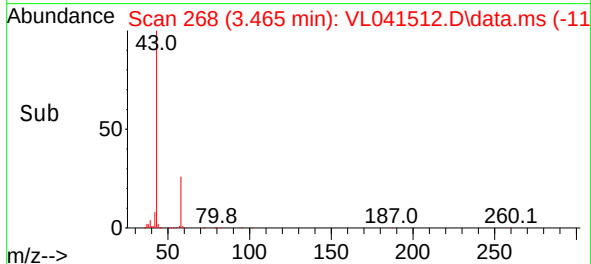
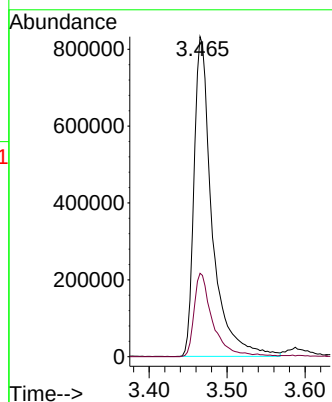
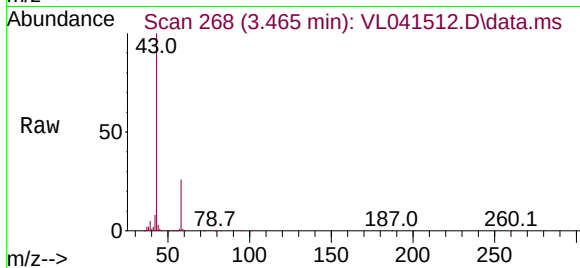
ClientSampleId :

Tgt Ion: 43 Resp: 1338944

Ion Ratio Lower Upper

43 100

58 26.9 21.4 32.2



#16

1,3-Butadiene

Concen: 0.136 ppbv

RT: 2.964 min Scan# 112

Delta R.T. -0.022 min

Lab File: VL041512.D

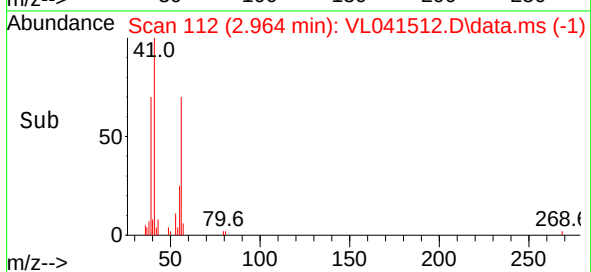
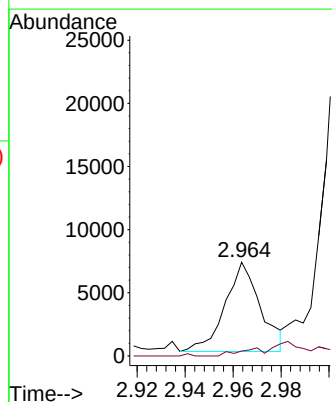
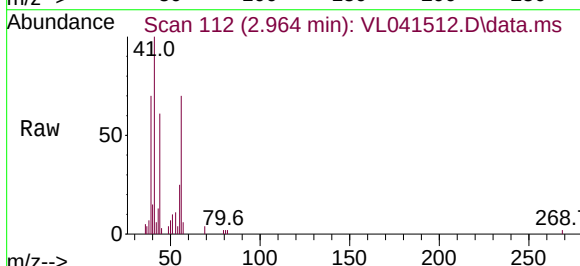
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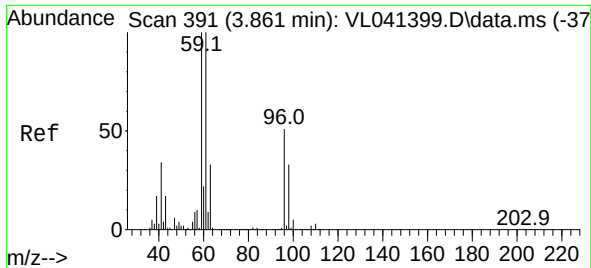
Tgt Ion: 39 Resp: 7218

Ion Ratio Lower Upper

39 100

54 22.7 62.5 93.7#

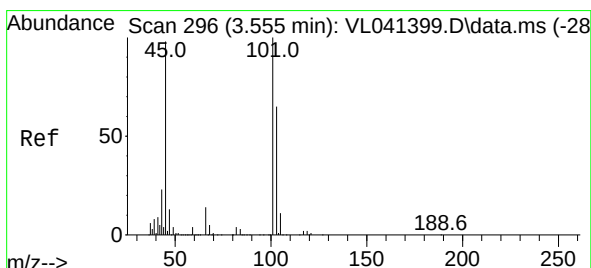
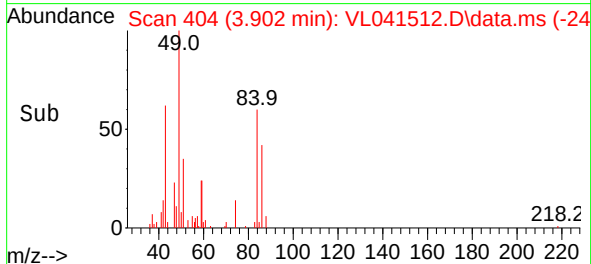
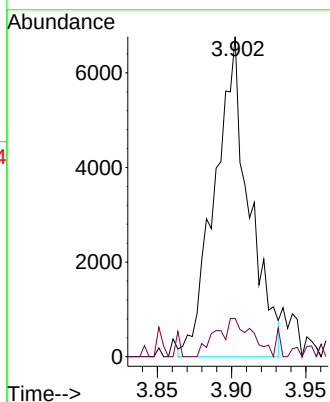
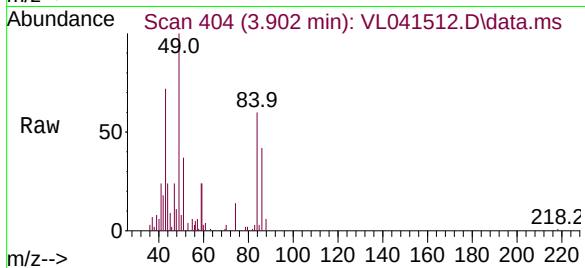




#17
tert-Butyl alcohol
Concen: 0.119 ppbv
RT: 3.902 min Scan# 404
Delta R.T. 0.026 min
Lab File: VL041512.D
Acq: 8 Aug 2024 14:26

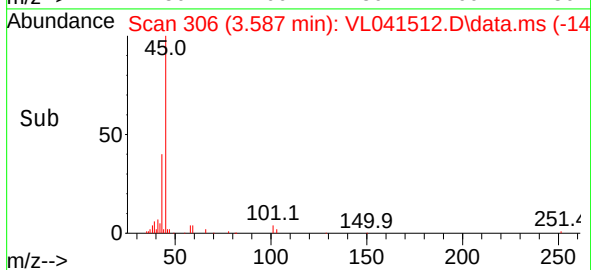
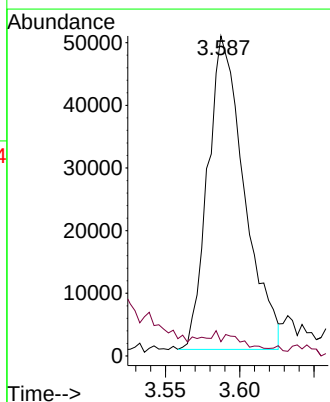
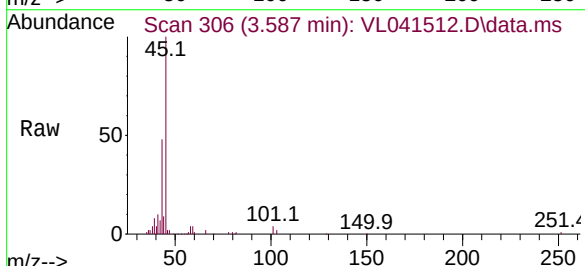
Instrument :
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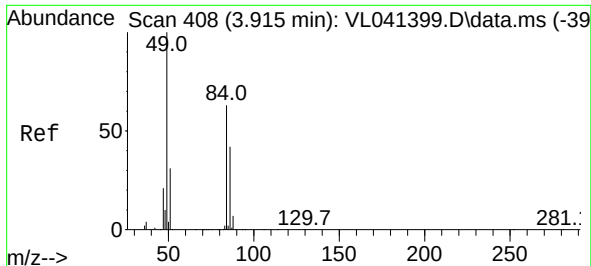
Tgt Ion: 59 Resp: 10825
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#19
Isopropyl Alcohol
Concen: 1.473 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.013 min
Lab File: VL041512.D
Acq: 8 Aug 2024 14:26

Tgt Ion: 45 Resp: 85602
Ion Ratio Lower Upper
45 100
58 421.3 1.9 2.9#





#20

Methylene Chloride

Concen: 55.423 ppbv

RT: 3.931 min Scan# 413

Delta R.T. 0.000 min

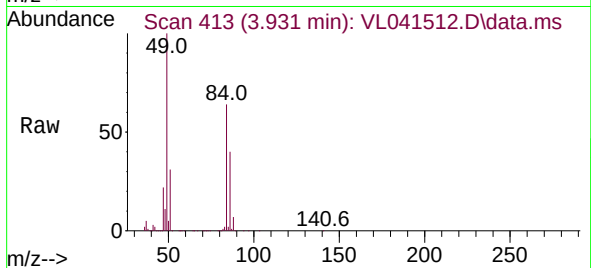
Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Instrument :

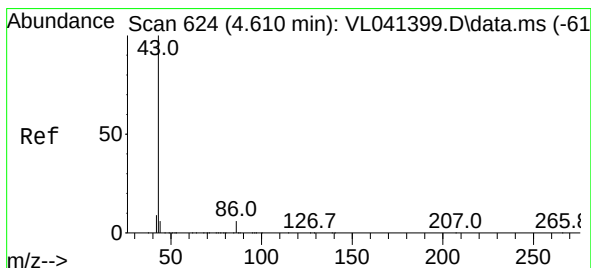
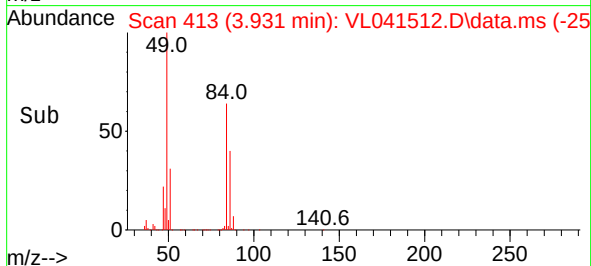
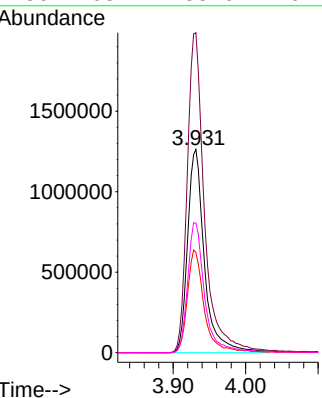
MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 2053768

Ion	Ratio	Lower	Upper
84	100		
49	157.4	126.6	190.0
51	49.3	38.6	58.0
86	63.7	53.0	79.4



#23

Vinyl Acetate

Concen: 0.563 ppbv

RT: 4.613 min Scan# 625

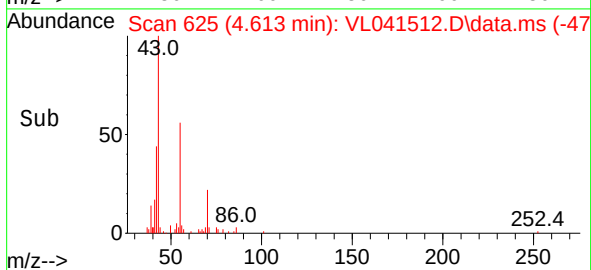
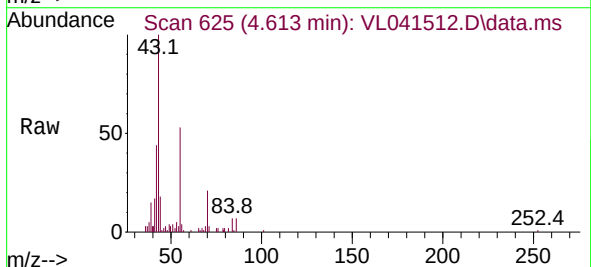
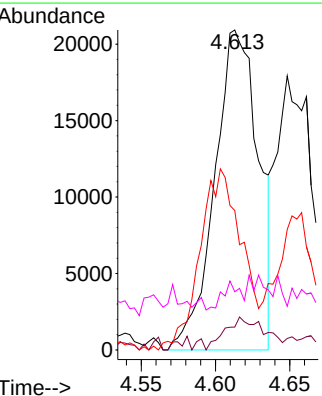
Delta R.T. -0.013 min

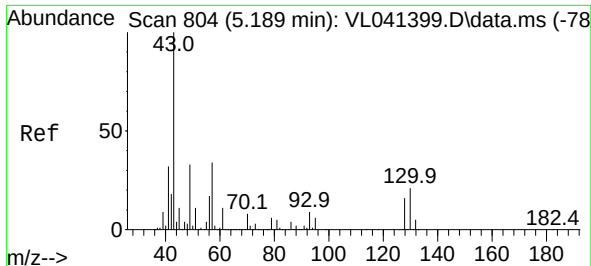
Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Tgt Ion: 43 Resp: 42711

Ion	Ratio	Lower	Upper
43	100		
86	7.2	4.6	6.8#
42	40.9	7.9	11.9#
44	1.5	4.2	6.4#





#25

Ethyl Acetate

Concen: 2.874 ppbv

RT: 5.208 min Scan# 810

Delta R.T. 0.006 min

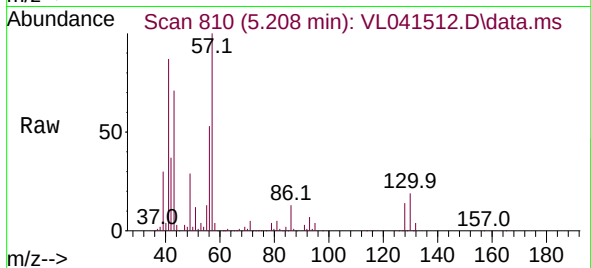
Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 43 Resp: 567396

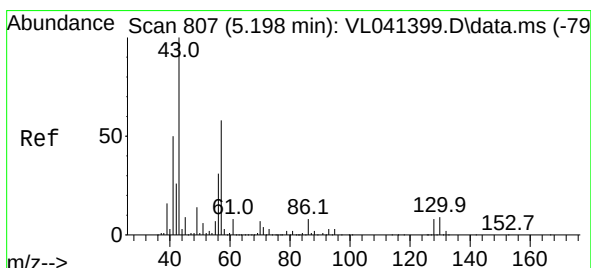
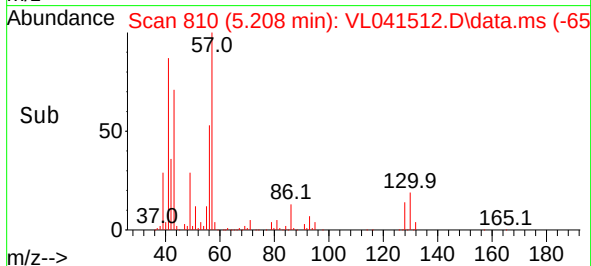
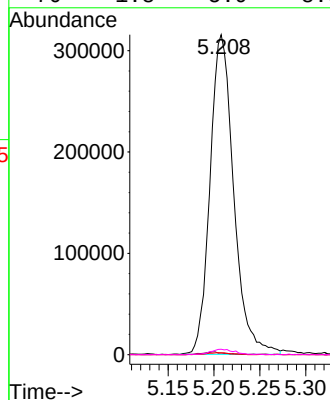
Ion Ratio Lower Upper

43 100

45 0.9 8.5 12.7#

61 0.6 8.0 12.0#

70 1.8 5.9 8.9#



#26

Hexane

Concen: 9.395 ppbv

RT: 5.208 min Scan# 810

Delta R.T. -0.003 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Tgt Ion: 57 Resp: 769414

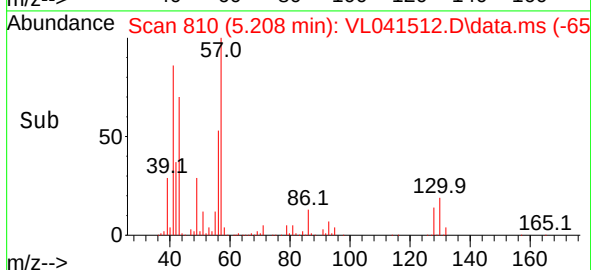
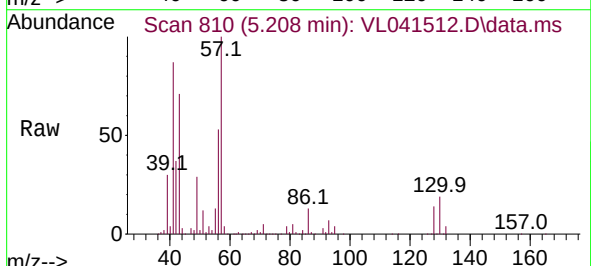
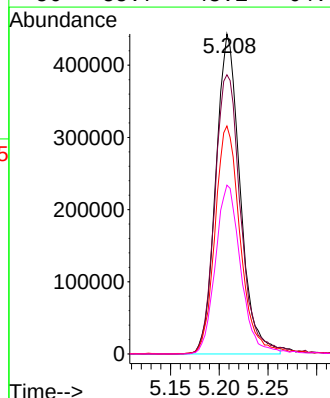
Ion Ratio Lower Upper

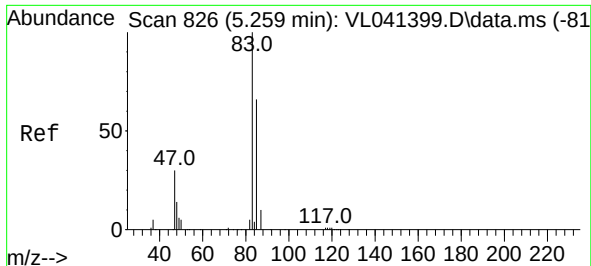
57 100

41 94.4 74.0 111.0

43 74.5 193.6 290.4#

56 55.7 43.1 64.7





#29

Chloroform

Concen: 0.066 ppbv

RT: 5.269 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Instrument :

MSVOA_L

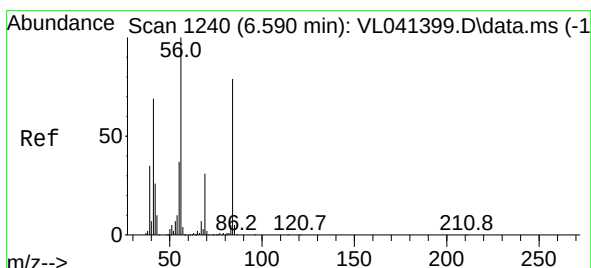
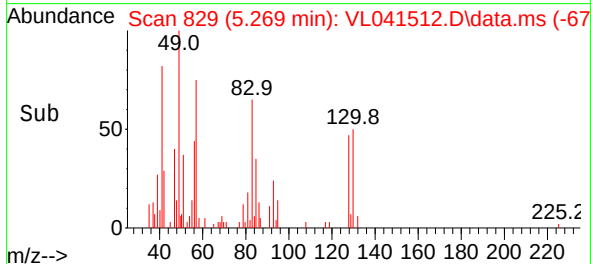
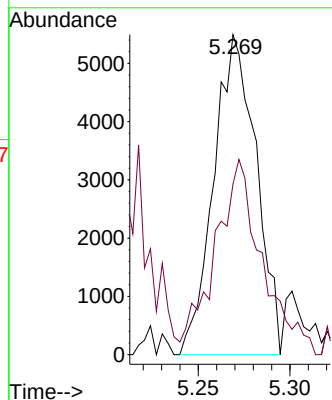
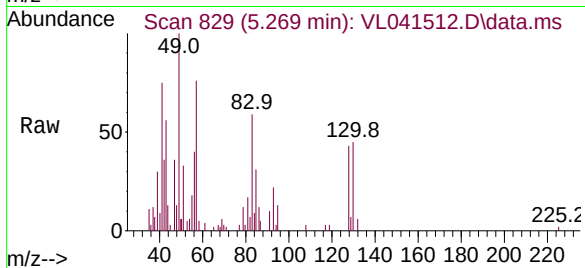
ClientSampleId :

Tgt Ion: 83 Resp: 8820

Ion Ratio Lower Upper

83 100

85 49.4 53.1 79.7#



#30

Cyclohexane

Concen: 0.033 ppbv

RT: 6.594 min Scan# 1241

Delta R.T. -0.003 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

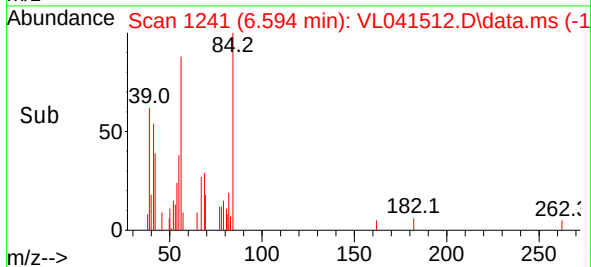
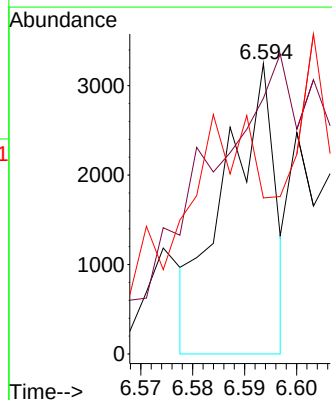
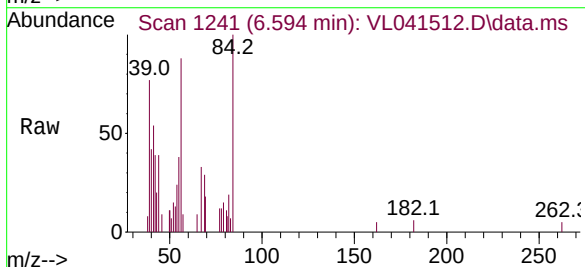
Tgt Ion: 84 Resp: 2188

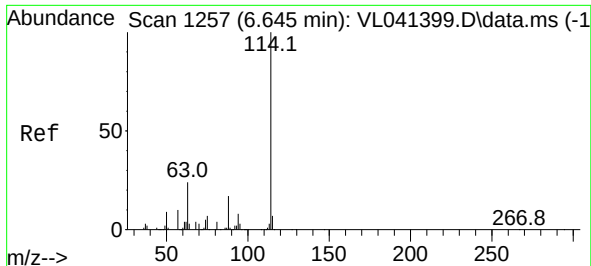
Ion Ratio Lower Upper

84 100

56 0.0 111.2 166.8#

41 0.0 70.3 105.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Instrument :

MSVOA_L

ClientSampleId :

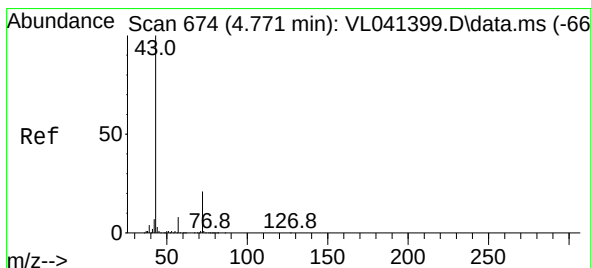
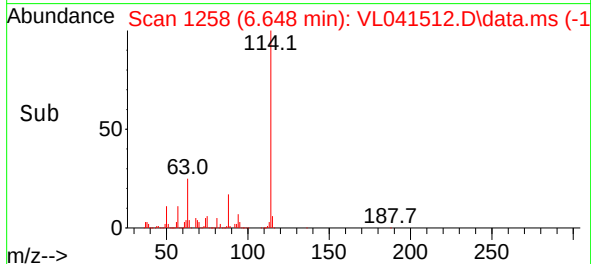
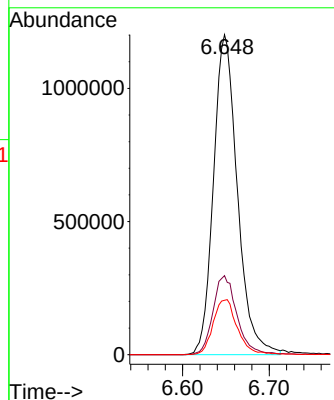
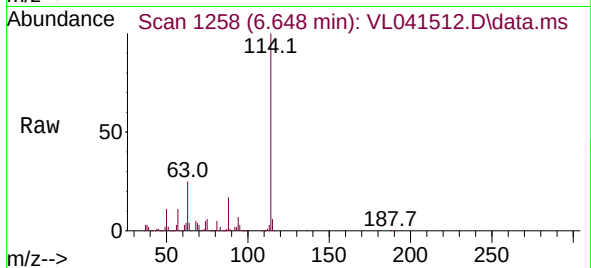
Tgt Ion:114 Resp: 2303723

Ion Ratio Lower Upper

114 100

63 25.1 20.3 30.5

88 17.6 14.3 21.5



#34

2-Butanone

Concen: 0.650 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.006 min

Lab File: VL041512.D

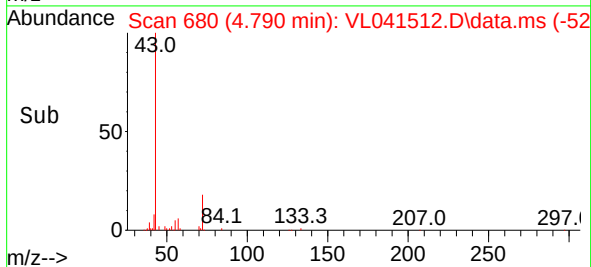
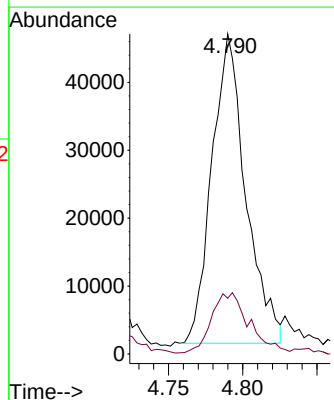
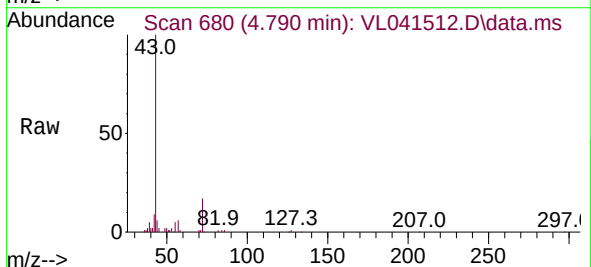
Acq: 8 Aug 2024 14:26

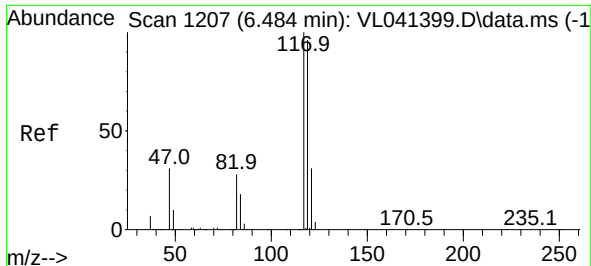
Tgt Ion: 43 Resp: 72397

Ion Ratio Lower Upper

43 100

72 23.7 17.3 25.9

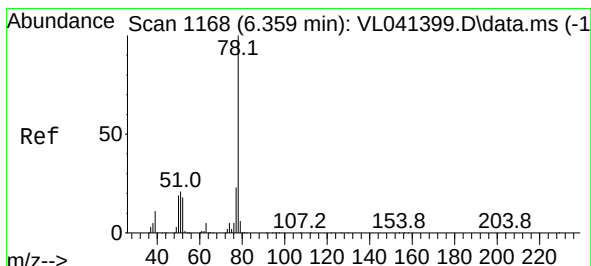
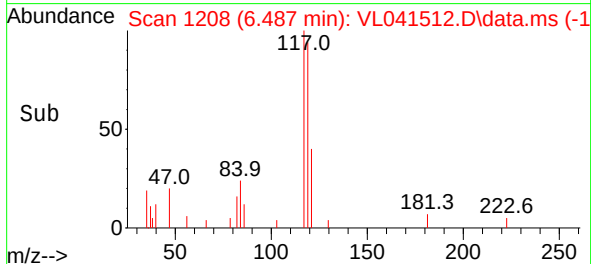
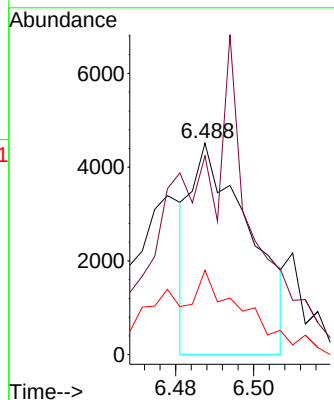
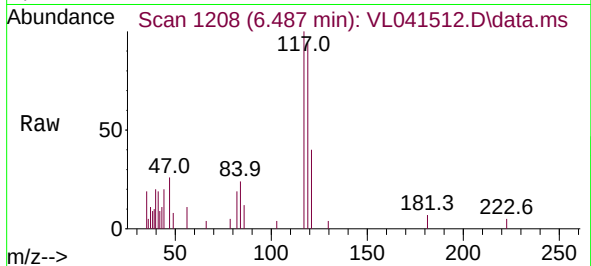




#35
Carbon Tetrachloride
Concen: 0.037 ppbv
RT: 6.487 min Scan# 1170
Delta R.T. -0.003 min
Lab File: VL041512.D
Acq: 8 Aug 2024 14:26

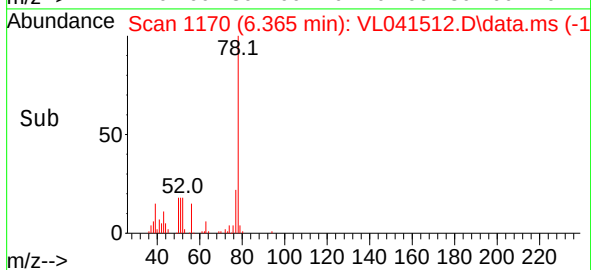
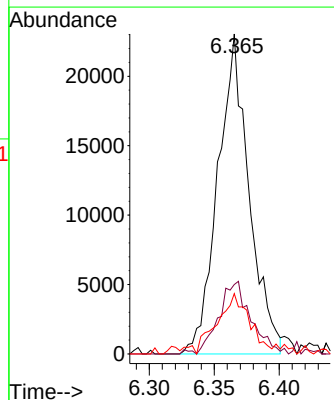
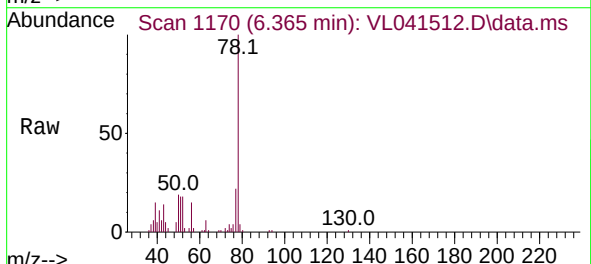
Instrument :
MSVOA_L
ClientSampleId :

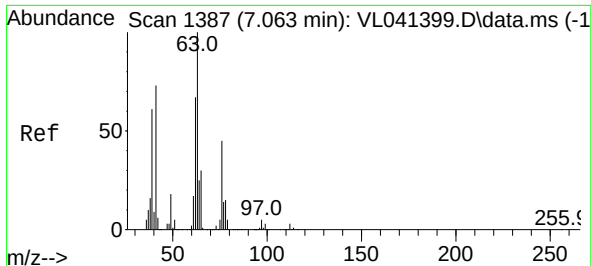
Tgt Ion:117 Resp: 4702
Ion Ratio Lower Upper
117 100
119 88.8 76.6 115.0
121 47.4 25.1 37.7#



#36
Benzene
Concen: 0.229 ppbv
RT: 6.365 min Scan# 1170
Delta R.T. -0.003 min
Lab File: VL041512.D
Acq: 8 Aug 2024 14:26

Tgt Ion: 78 Resp: 38560
Ion Ratio Lower Upper
78 100
77 21.7 18.1 27.1
50 17.9 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.835 ppbv

RT: 6.648 min Scan# 1

Delta R.T. -0.421 min

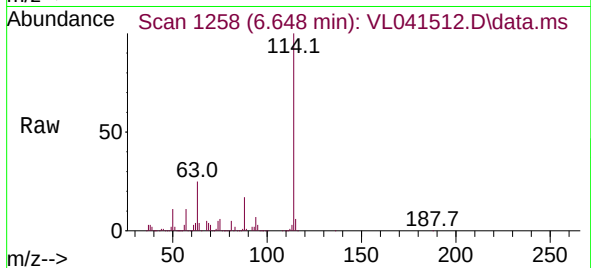
Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Instrument :

MSVOA_L

ClientSampleId :



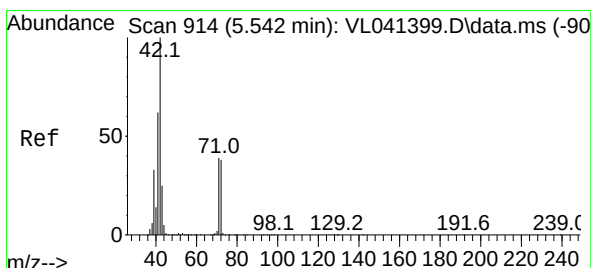
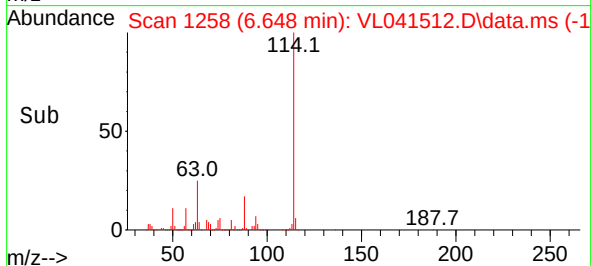
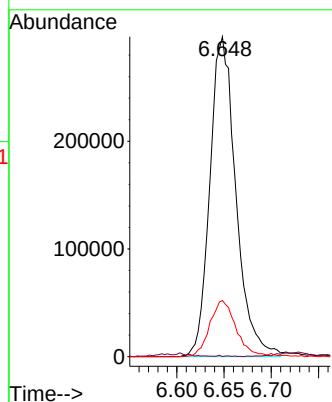
Tgt Ion: 63 Resp: 569365

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 17.6 53.9 80.9#



#41

Tetrahydrofuran

Concen: 4.941 ppbv

RT: 5.208 min Scan# 810

Delta R.T. -0.344 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

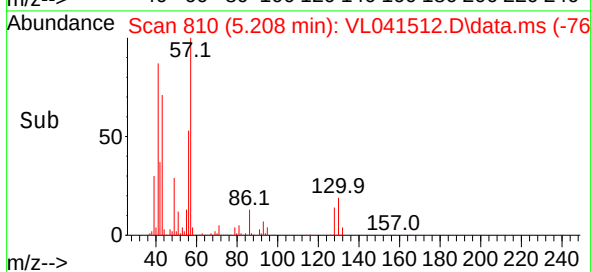
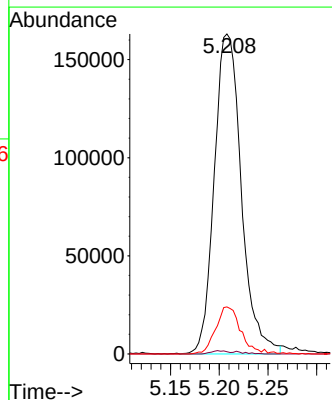
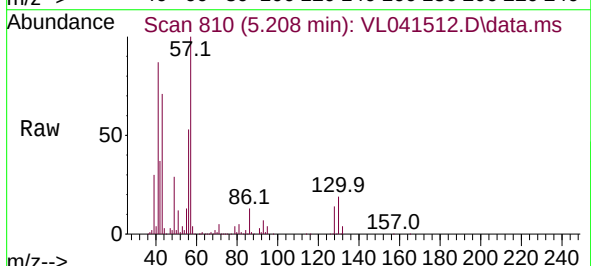
Tgt Ion: 42 Resp: 314939

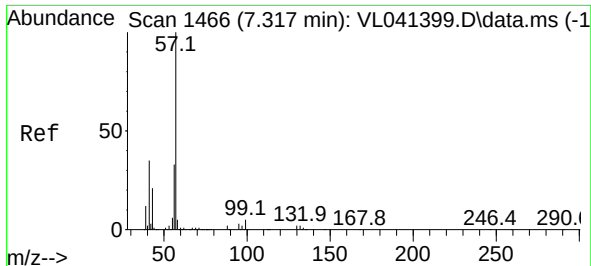
Ion Ratio Lower Upper

42 100

72 0.9 31.2 46.8#

71 13.8 30.5 45.7#





#44

2,2,4-Trimethylpentane

Concen: 0.082 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. -0.003 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Instrument :

MSVOA_L

ClientSampleId :

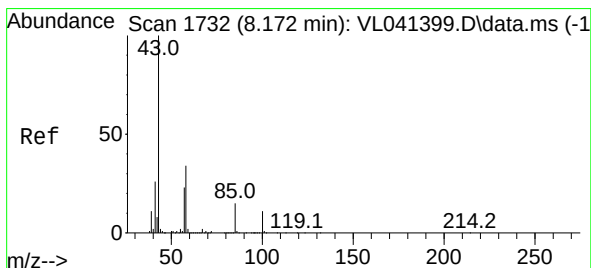
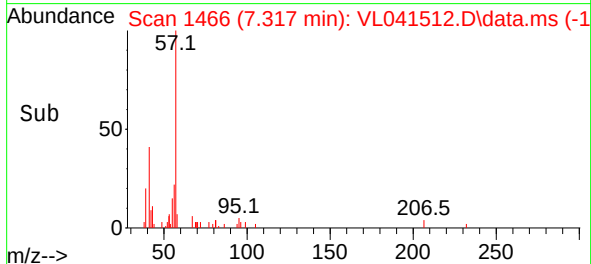
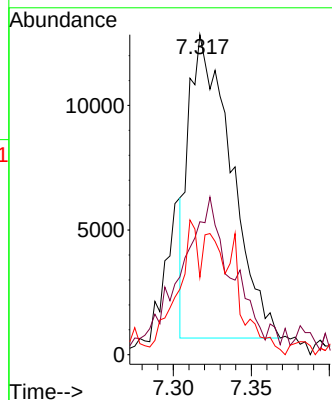
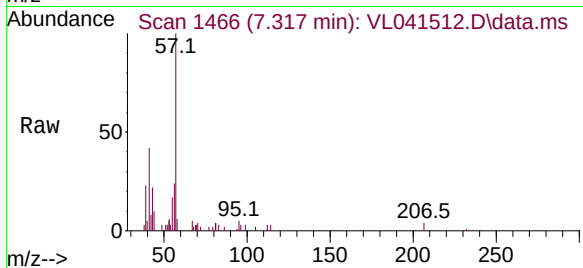
Tgt Ion: 57 Resp: 23051

Ion Ratio Lower Upper

57 100

41 64.4 27.0 40.6#

56 58.0 25.2 37.8#



#50

4-Methyl-2-Pentanone

Concen: 0.361 ppbv

RT: 8.195 min Scan# 1739

Delta R.T. 0.019 min

Lab File: VL041512.D

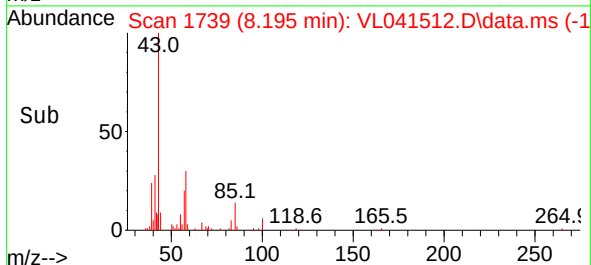
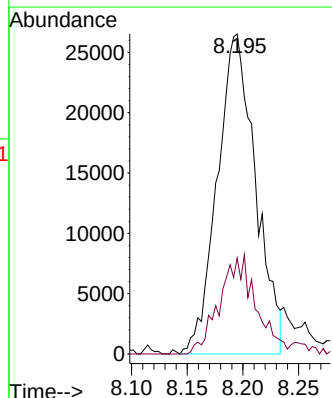
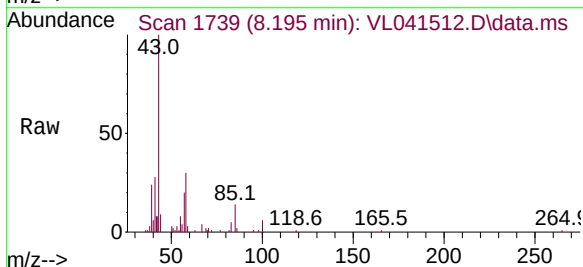
Acq: 8 Aug 2024 14:26

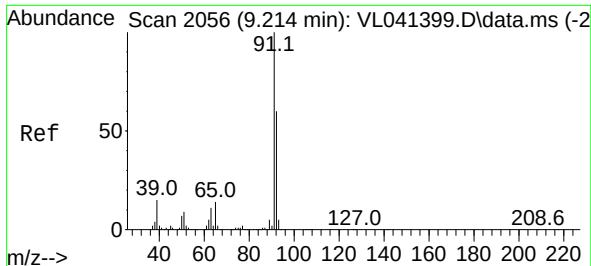
Tgt Ion: 43 Resp: 63491

Ion Ratio Lower Upper

43 100

58 32.0 27.9 41.9





#53

Toluene

Concen: 1.630 ppbv

RT: 9.214 min Scan# 2056

Delta R.T. -0.003 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Instrument :

MSVOA_L

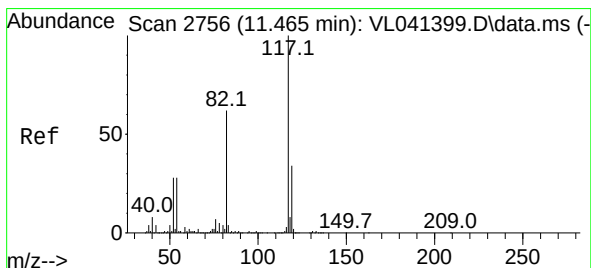
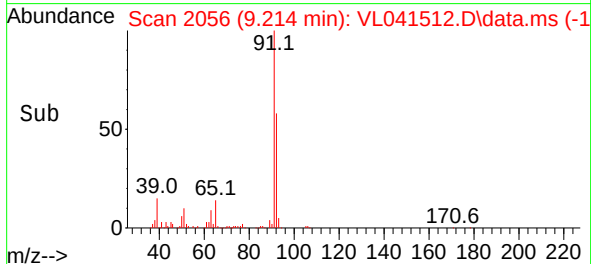
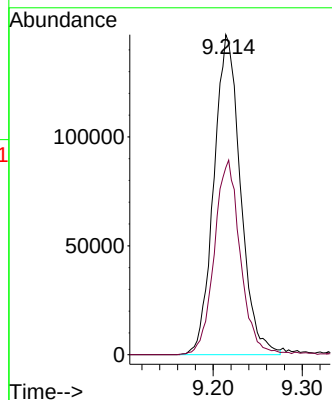
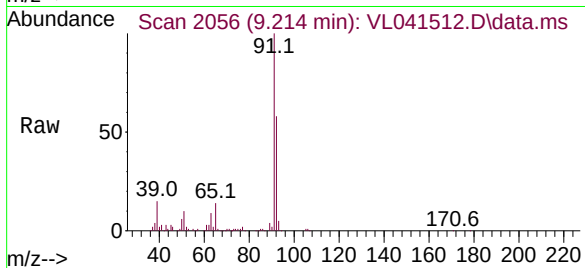
ClientSampleId :

Tgt Ion: 91 Resp: 305606

Ion Ratio Lower Upper

91 100

92 60.0 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 2754

Delta R.T. -0.003 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

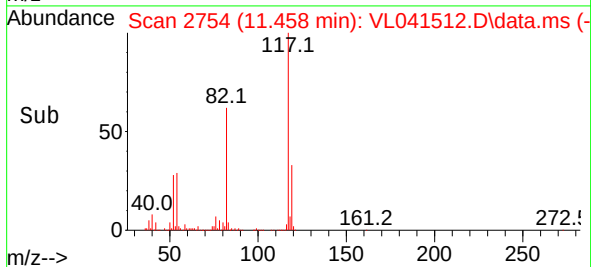
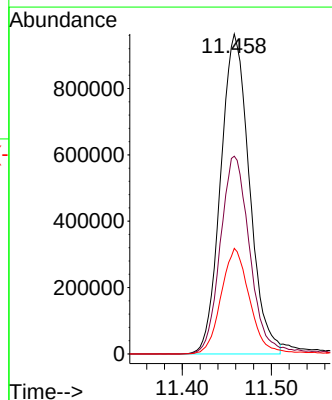
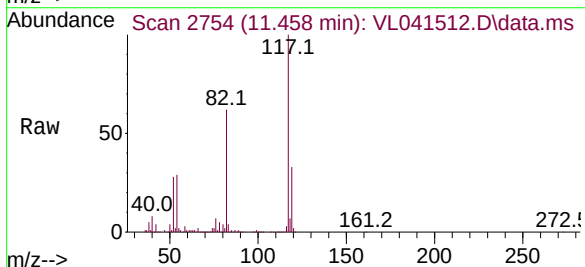
Tgt Ion: 117 Resp: 2161903

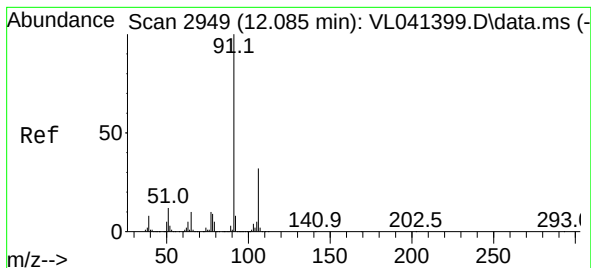
Ion Ratio Lower Upper

117 100

82 64.7 51.0 76.6

119 33.1 45.2 67.8#





#58

Ethyl Benzene

Concen: 0.298 ppbv

RT: 12.082 min Scan# 2949

Delta R.T. -0.003 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Instrument :

MSVOA_L

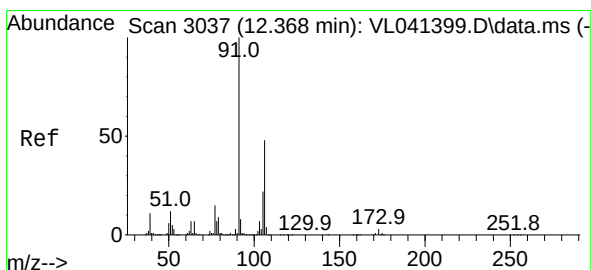
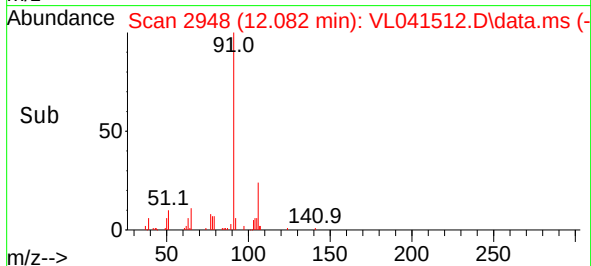
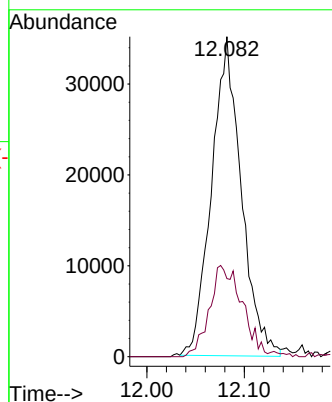
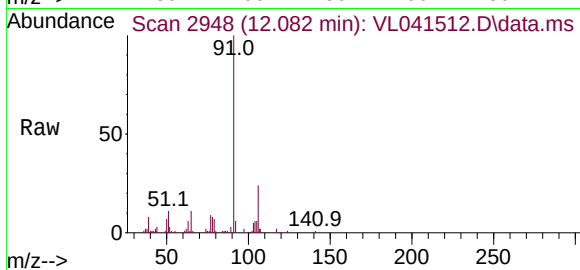
ClientSampleId :

Tgt Ion: 91 Resp: 74254

Ion Ratio Lower Upper

91 100

106 26.6 25.8 38.8



#59

m/p-Xylene

Concen: 0.678 ppbv

RT: 12.339 min Scan# 3028

Delta R.T. -0.029 min

Lab File: VL041512.D

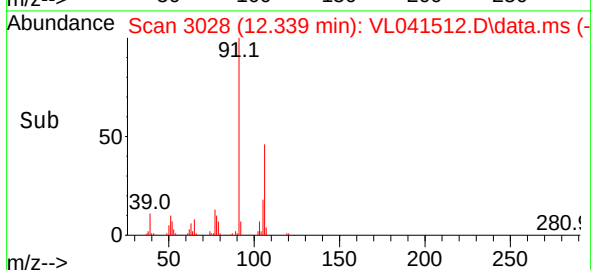
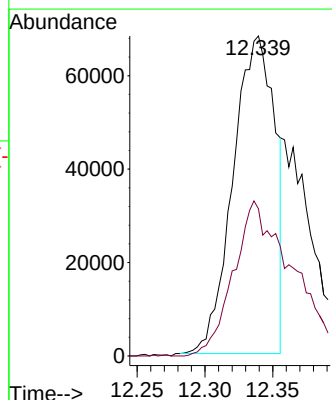
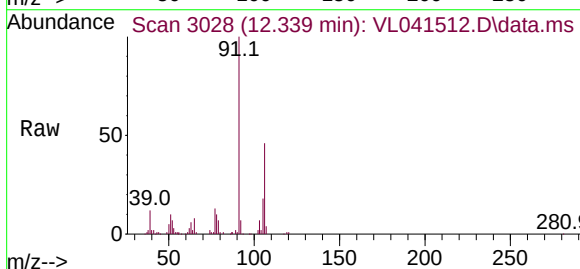
Acq: 8 Aug 2024 14:26

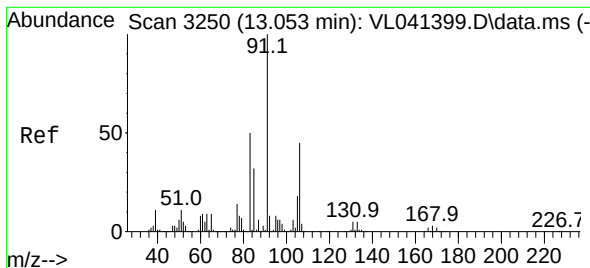
Tgt Ion: 91 Resp: 145794

Ion Ratio Lower Upper

91 100

106 70.7 36.3 54.5#





#60

o-Xylene

Concen: 0.180 ppbv

RT: 13.053 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Instrument :

MSVOA_L

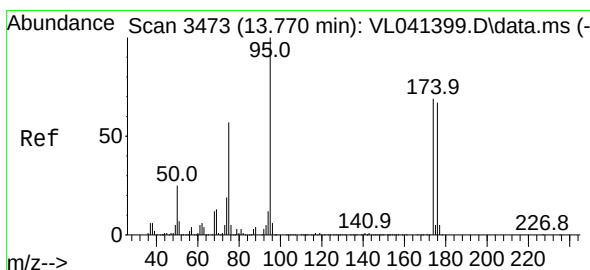
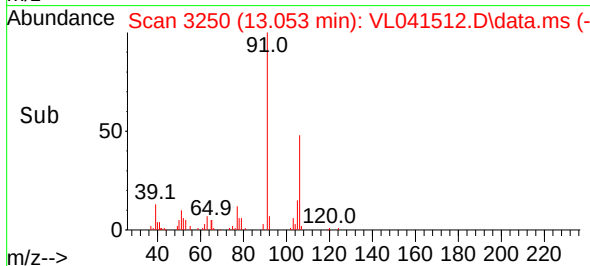
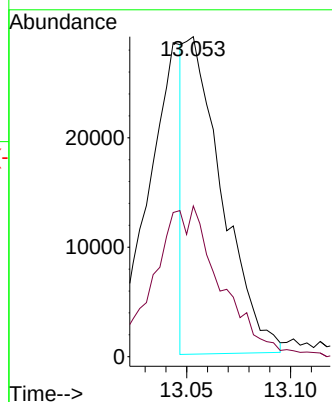
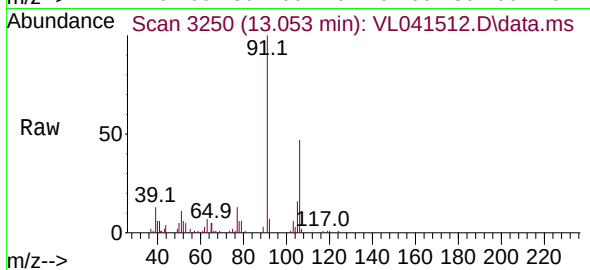
ClientSampleId :

Tgt Ion: 91 Resp: 36590

Ion Ratio Lower Upper

91 100

106 85.7 23.1 69.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.519 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. 0.000 min

Lab File: VL041512.D

Acq: 8 Aug 2024 14:26

Tgt Ion: 95 Resp: 1583653

Ion Ratio Lower Upper

95 100

174 70.3 56.3 84.5

175 4.9 4.0 6.0

