

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060524\
 Data File : VL041331.D
 Acq On : 5 Jun 2024 17:32
 Operator : SY/MD
 Sample : P2716-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Quant Time: Jun 06 04:41:23 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)

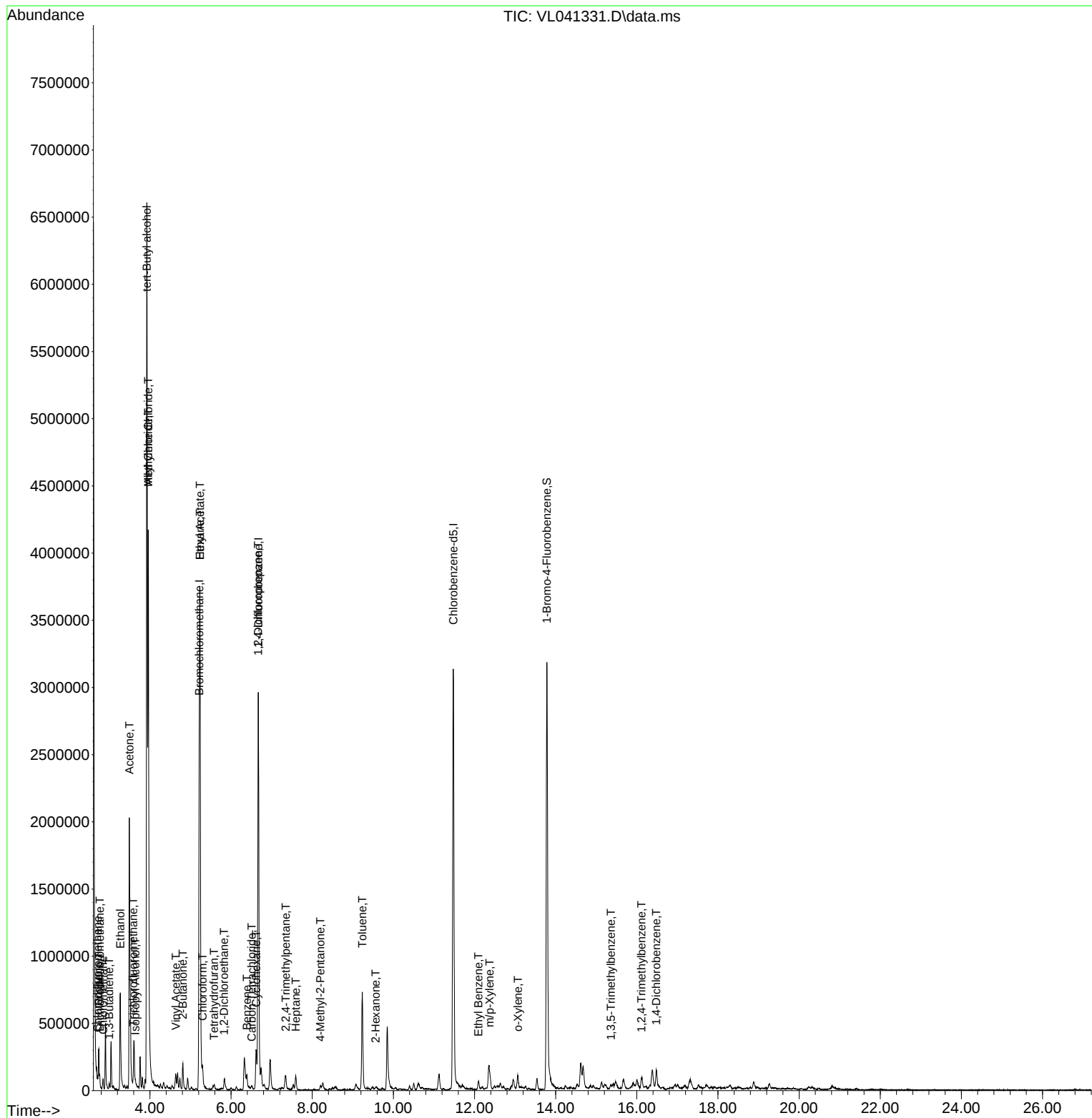
Internal Standards								
1) Bromochloromethane			5.214	49	868460	10.000	ppbv	0.00
33) 1,4-Difluorobenzene			6.671	114	2212781	10.000	ppbv	0.01
55) Chlorobenzene-d5			11.478	117	2027114	10.000	ppbv	0.02
System Monitoring Compounds								
68) 1-Bromo-4-Fluorobenzene			13.786	95	1564765	9.998	ppbv	0.02
Spiked Amount		10.000	Range	65 - 135	Recovery	=	100.000%	
Target Compounds								
								Qvalue
2) Dichlorodifluoromethane			2.764	85	51263	0.370	ppbv	97
3) Chlorodifluoromethane			2.710	51	102324	0.746	ppbv #	81
4) Chloromethane			2.845	50	54770	1.060	ppbv	96
9) Propene			2.735	41	68947	1.410	ppbv #	73
10) Heptane			7.594	43	41709	0.360	ppbv	97
11) Trichlorofluoromethane			3.591	101	30795	0.242	ppbv	94
13) Ethanol			3.269	45	721129	56.702	ppbv	99
15) Acetone			3.494	43	2154627	21.730	ppbv	99
16) 1,3-Butadiene			2.999	39	9881	0.198	ppbv #	53
17) tert-Butyl alcohol			3.925	59	597550	6.546	ppbv #	71
19) Isopropyl Alcohol			3.642	45	8984	0.144	ppbv #	95
20) Methylene Chloride			3.960	84	1160185	32.192	ppbv	97
21) Allyl Chloride			3.957	41	58772	0.936	ppbv #	23
23) Vinyl Acetate			4.639	43	86643	0.854	ppbv #	80
25) Ethyl Acetate			5.234	43	951353	4.850	ppbv #	80
26) Hexane			5.234	57	1254019	14.216	ppbv #	43
29) Chloroform			5.298	83	61632	0.455	ppbv	89
30) Cyclohexane			6.623	84	36731	0.514	ppbv #	1
34) 2-Butanone			4.812	43	214912	2.027	ppbv	100
35) Carbon Tetrachloride			6.510	117	7420	0.059	ppbv	88
36) Benzene			6.391	78	57213	0.334	ppbv	96
37) 1,2-Dichloroethane			5.828	62	3581	0.036	ppbv #	67
39) 1,2-Dichloropropane			6.668	63	566005	8.288	ppbv #	25
41) Tetrahydrofuran			5.581	42	6896	0.100	ppbv #	1
44) 2,2,4-Trimethylpentane			7.349	57	34846	0.118	ppbv #	1
50) 4-Methyl-2-Pentanone			8.201	43	7156	0.041	ppbv #	40
51) 2-Hexanone			9.565	43	5350	0.043	ppbv #	30
53) Toluene			9.233	91	523695	2.655	ppbv	99
58) Ethyl Benzene			12.098	91	52805	0.203	ppbv	97
59) m/p-Xylene			12.375	91	57806	0.260	ppbv #	31
60) o-Xylene			13.072	91	35183	0.166	ppbv #	31
73) 1,3,5-Trimethylbenzene			15.365	105	7949	0.037	ppbv #	69
74) 1,2,4-Trimethylbenzene			16.117	105	49383	0.203	ppbv #	72
76) 1,4-Dichlorobenzene			16.481	146	5969	0.042	ppbv #	7

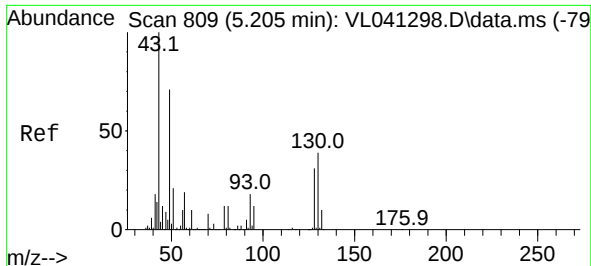
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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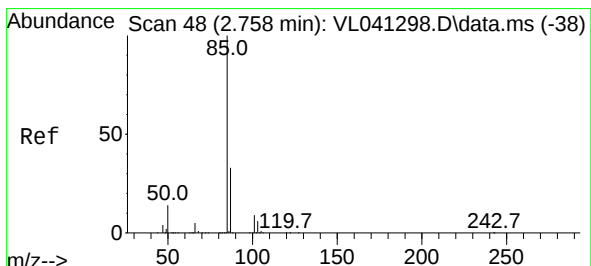
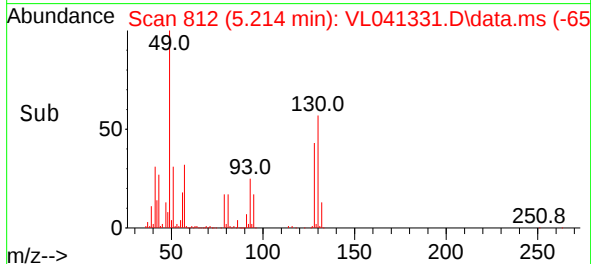
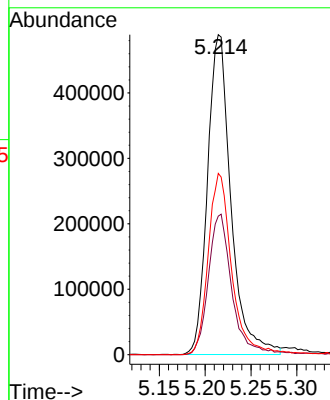
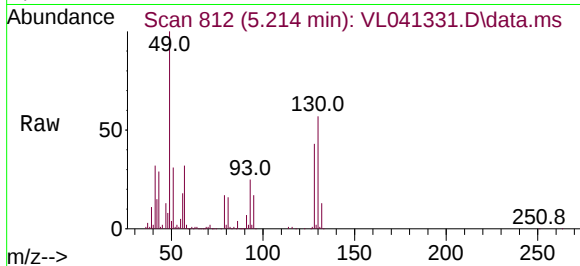




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.214 min Scan# 81
 Delta R.T. 0.009 min
 Lab File: VL041331.D
 Acq: 5 Jun 2024 17:32

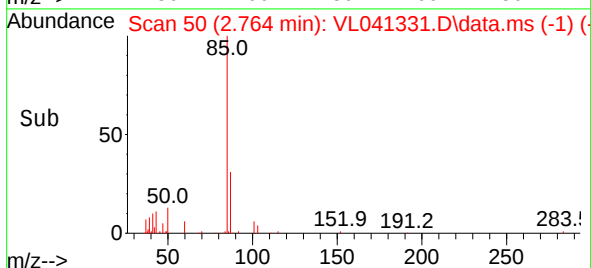
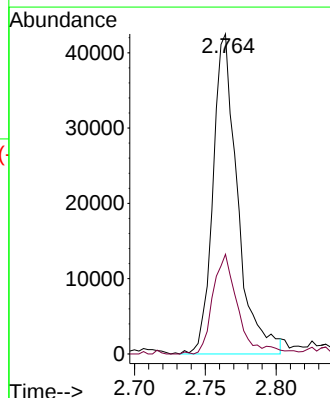
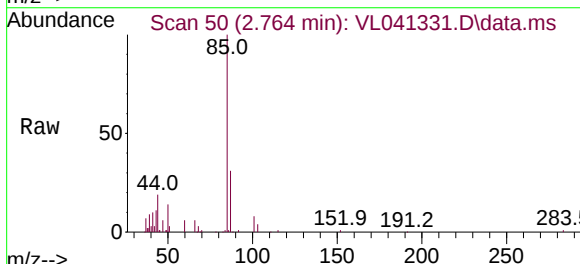
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

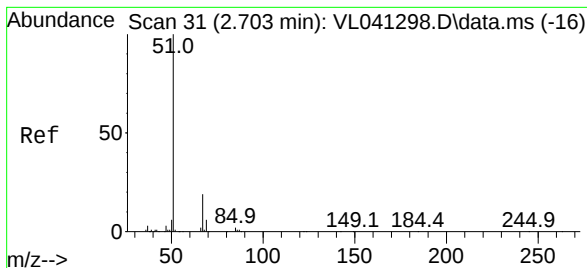
Tgt Ion: 49 Resp: 868460
 Ion Ratio Lower Upper
 49 100
 128 44.7 22.8 68.3
 130 57.3 28.4 85.3



#2
 Dichlorodifluoromethane
 Concen: 0.370 ppbv
 RT: 2.764 min Scan# 50
 Delta R.T. 0.006 min
 Lab File: VL041331.D
 Acq: 5 Jun 2024 17:32

Tgt Ion: 85 Resp: 51263
 Ion Ratio Lower Upper
 85 100
 87 31.1 26.5 39.7





#3

Chlorodifluoromethane

Concen: 0.746 ppbv

RT: 2.710 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

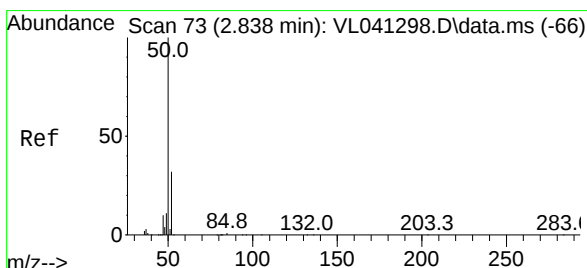
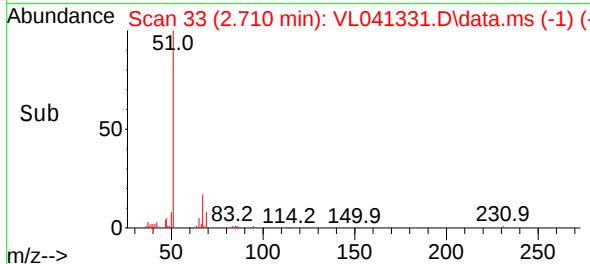
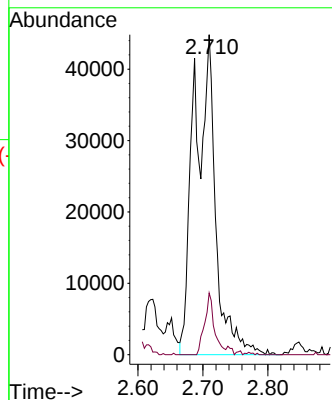
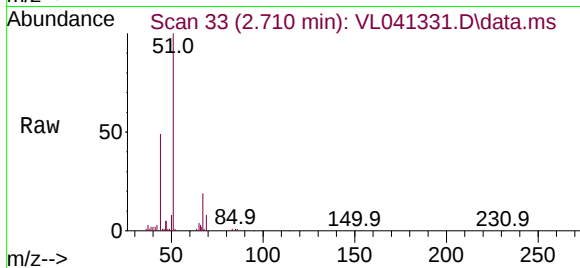
IA2

Tgt Ion: 51 Resp: 102324

Ion Ratio Lower Upper

51 100

67 9.9 14.7 22.1#



#4

Chloromethane

Concen: 1.060 ppbv

RT: 2.845 min Scan# 75

Delta R.T. 0.006 min

Lab File: VL041331.D

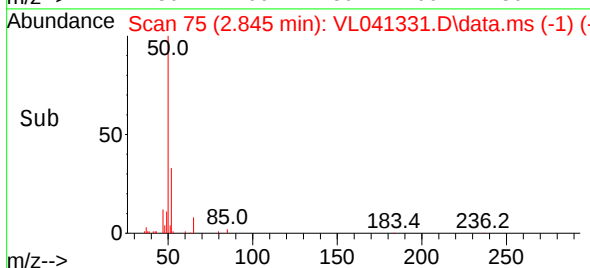
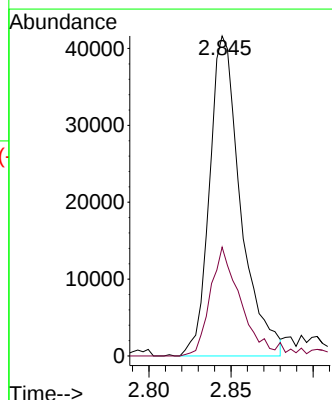
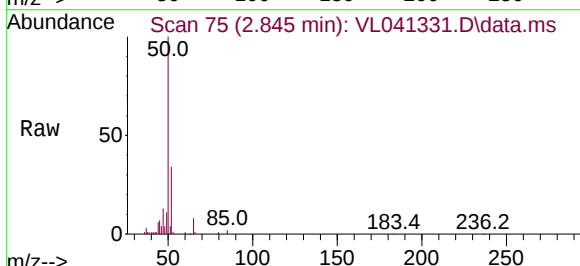
Acq: 5 Jun 2024 17:32

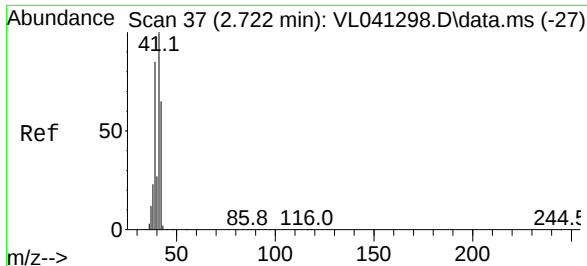
Tgt Ion: 50 Resp: 54770

Ion Ratio Lower Upper

50 100

52 34.0 25.6 38.4





#9

Propene

Concen: 1.410 ppbv

RT: 2.735 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

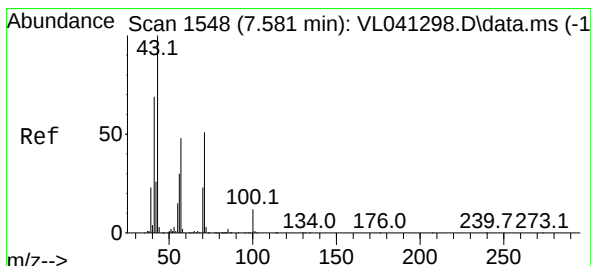
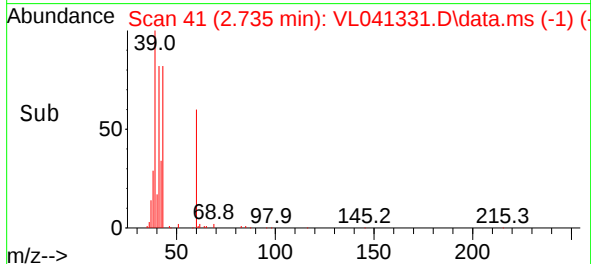
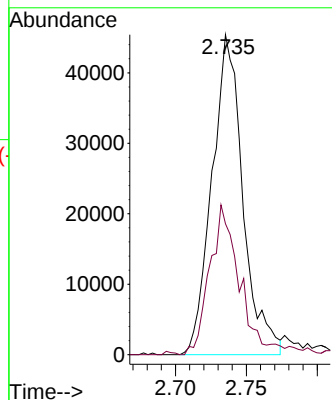
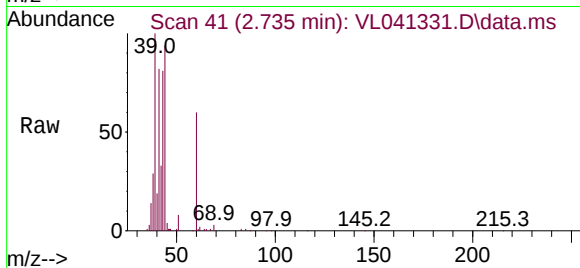
IA2

Tgt Ion: 41 Resp: 68947

Ion Ratio Lower Upper

41 100

42 47.3 55.2 82.8#



#10

Heptane

Concen: 0.360 ppbv

RT: 7.594 min Scan# 1552

Delta R.T. 0.013 min

Lab File: VL041331.D

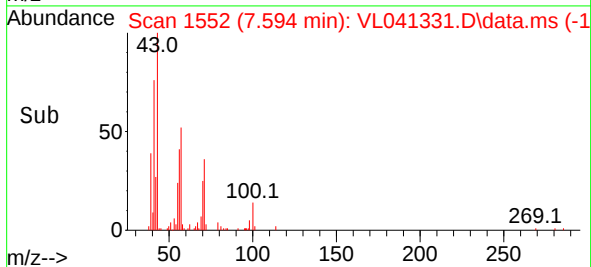
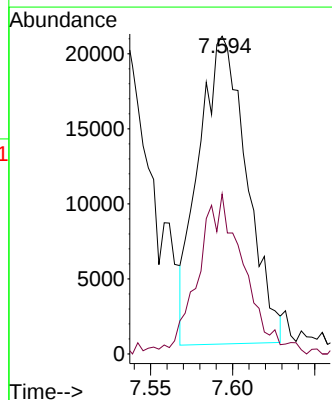
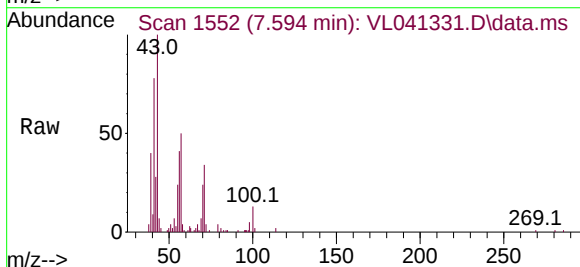
Acq: 5 Jun 2024 17:32

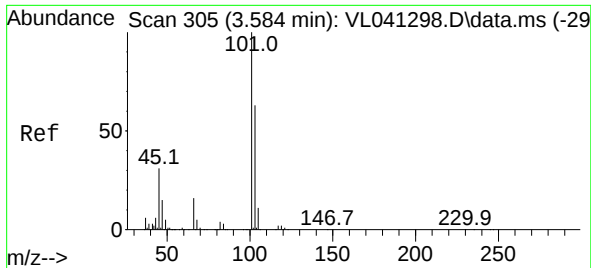
Tgt Ion: 43 Resp: 41709

Ion Ratio Lower Upper

43 100

57 50.6 39.0 58.4





#11

Trichlorofluoromethane

Concen: 0.242 ppbv

RT: 3.591 min Scan# 305

Delta R.T. 0.006 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

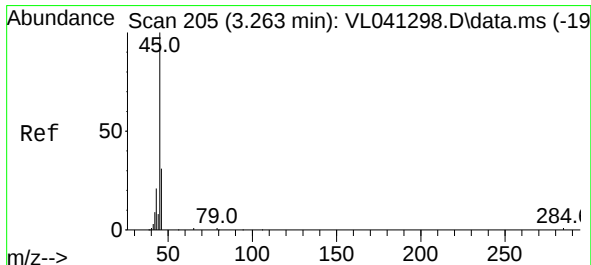
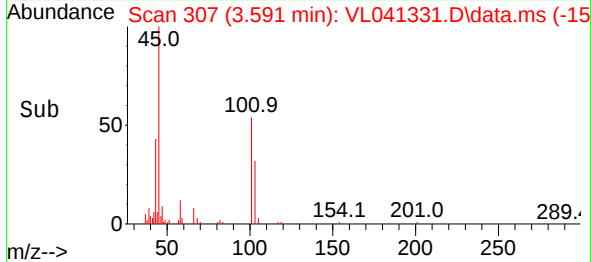
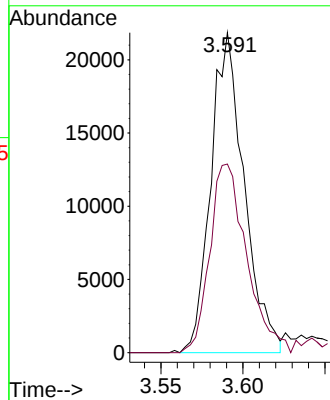
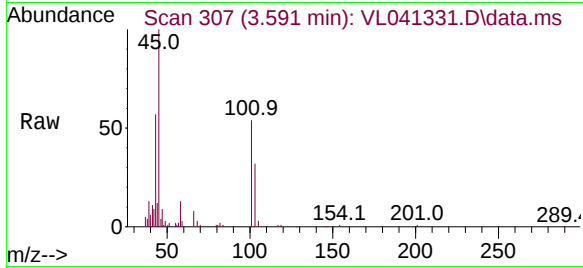
IA2

Tgt Ion:101 Resp: 30795

Ion Ratio Lower Upper

101 100

103 59.0 50.6 76.0



#13

Ethanol

Concen: 56.702 ppbv

RT: 3.269 min Scan# 207

Delta R.T. 0.006 min

Lab File: VL041331.D

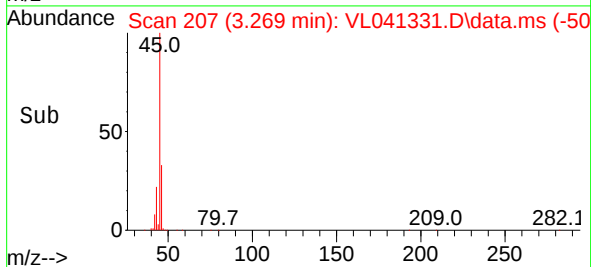
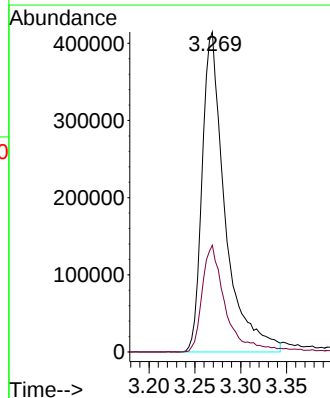
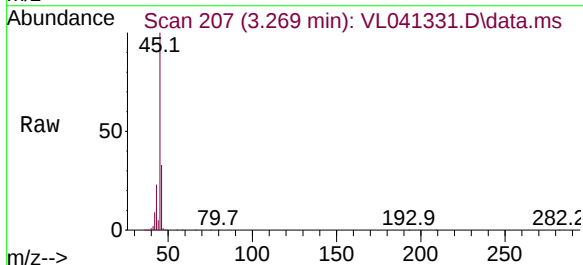
Acq: 5 Jun 2024 17:32

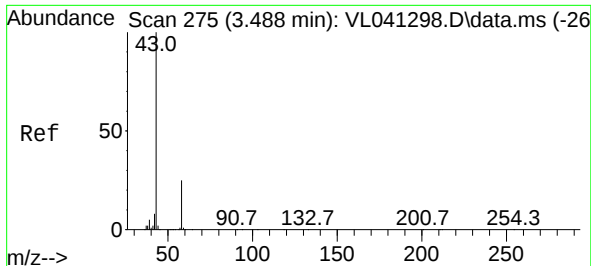
Tgt Ion: 45 Resp: 721129

Ion Ratio Lower Upper

45 100

46 34.9 14.2 56.6





#15

Acetone

Concen: 21.730 ppbv

RT: 3.494 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

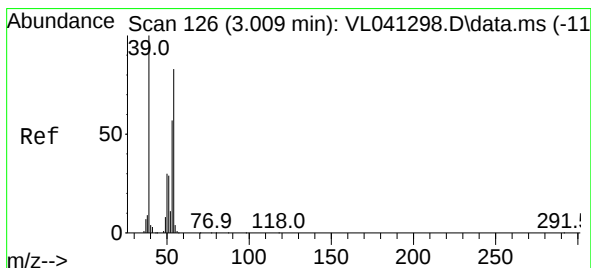
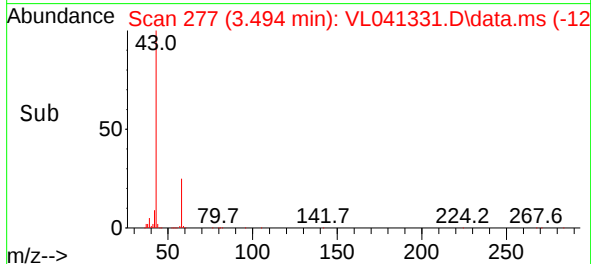
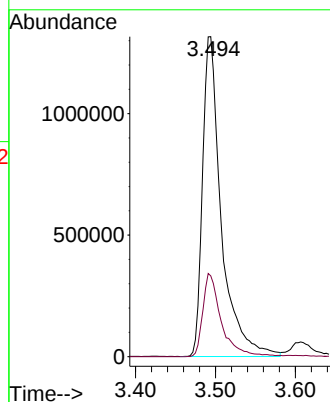
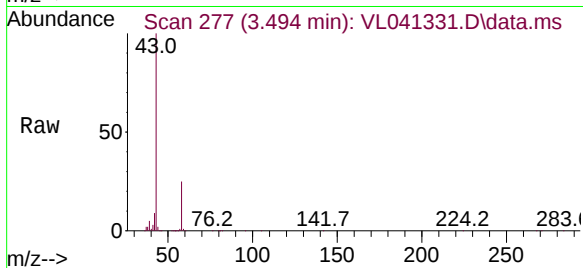
IA2

Tgt Ion: 43 Resp: 2154627

Ion Ratio Lower Upper

43 100

58 26.5 20.6 31.0



#16

1,3-Butadiene

Concen: 0.198 ppbv

RT: 2.999 min Scan# 123

Delta R.T. -0.010 min

Lab File: VL041331.D

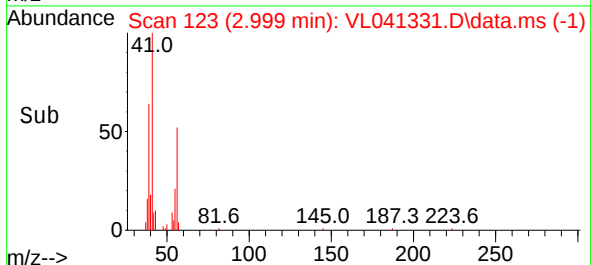
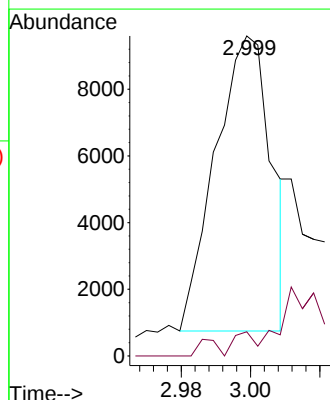
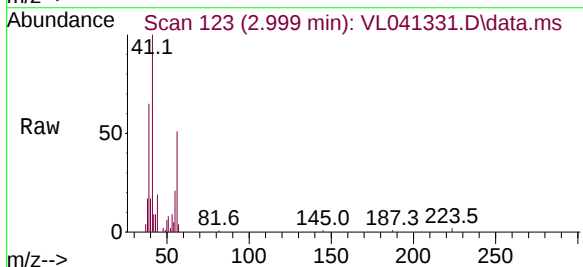
Acq: 5 Jun 2024 17:32

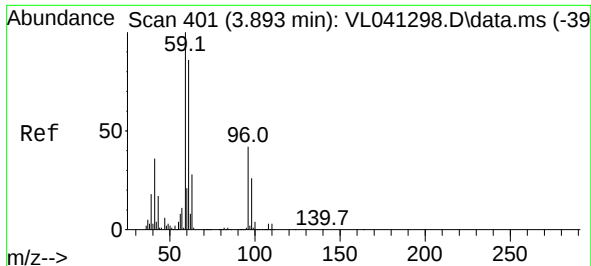
Tgt Ion: 39 Resp: 9881

Ion Ratio Lower Upper

39 100

54 35.6 60.5 90.7#





#17

tert-Butyl alcohol

Concen: 6.546 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.032 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

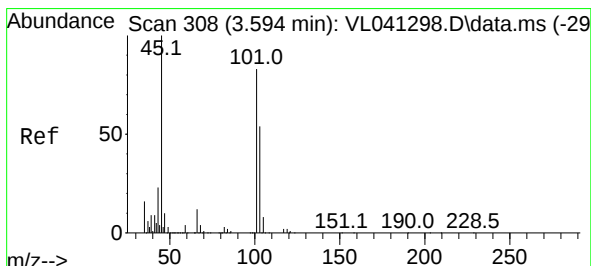
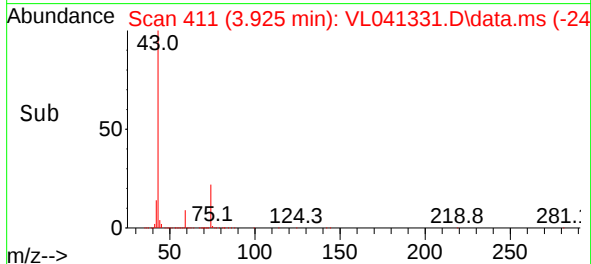
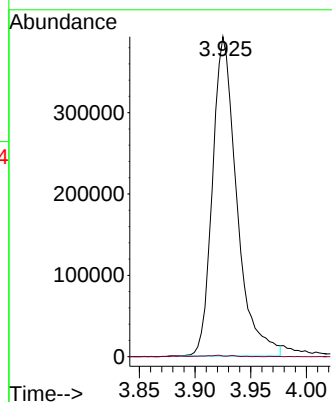
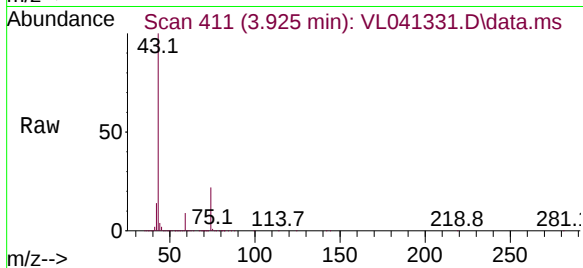
IA2

Tgt Ion: 59 Resp: 597550

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#19

Isopropyl Alcohol

Concen: 0.144 ppbv

RT: 3.642 min Scan# 323

Delta R.T. 0.048 min

Lab File: VL041331.D

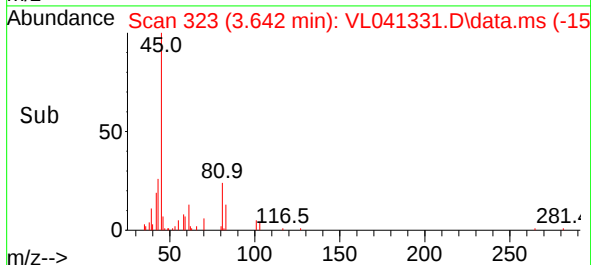
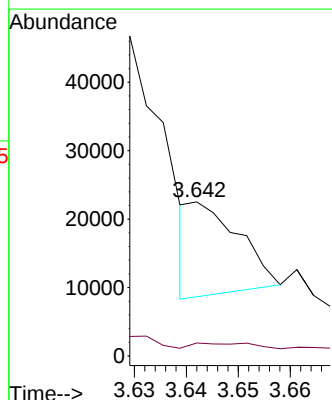
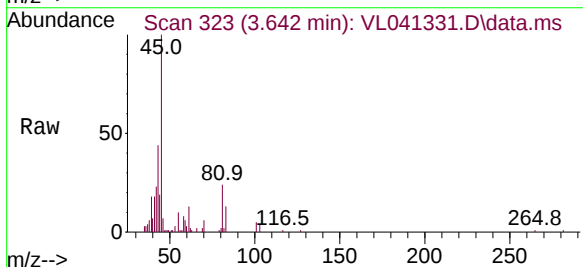
Acq: 5 Jun 2024 17:32

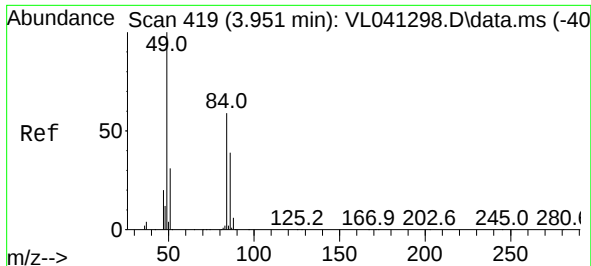
Tgt Ion: 45 Resp: 8984

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



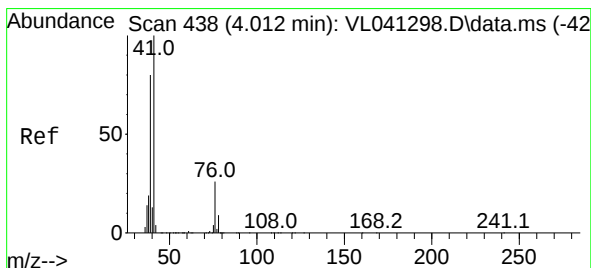
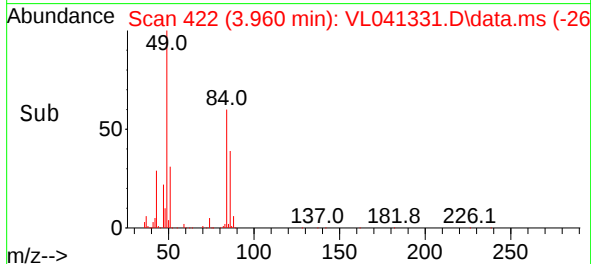
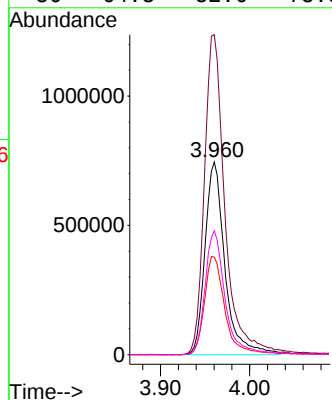
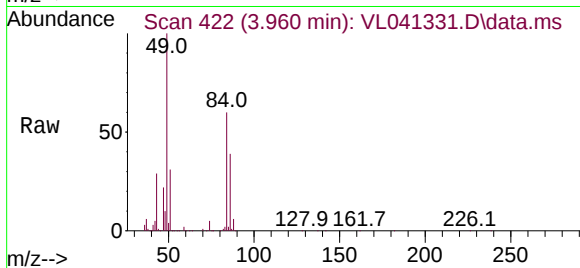


#20
Methylene Chloride
Concen: 32.192 ppbv
RT: 3.960 min Scan# 419
Delta R.T. 0.010 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 84 Resp: 1160185

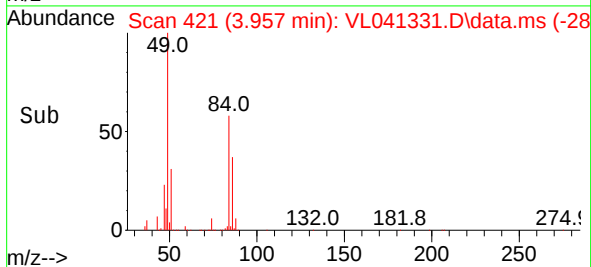
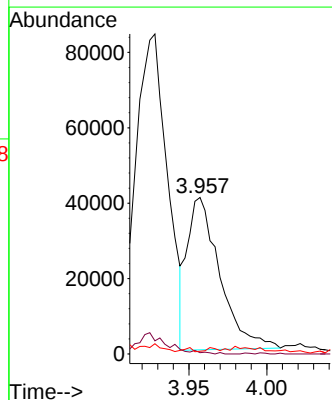
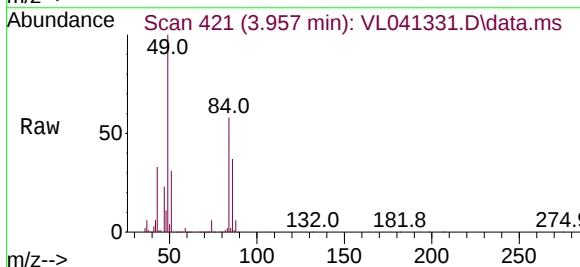
Ion	Ratio	Lower	Upper
84	100		
49	166.1	136.2	204.2
51	50.7	41.9	62.9
86	64.3	52.6	78.8

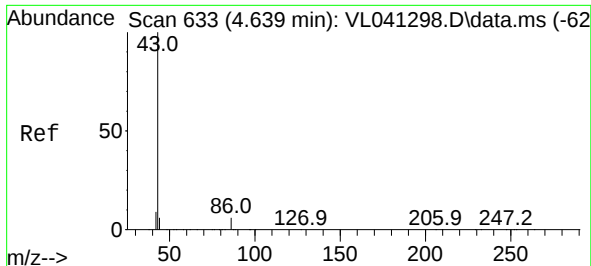


#21
Allyl Chloride
Concen: 0.936 ppbv
RT: 3.957 min Scan# 421
Delta R.T. -0.055 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

Tgt Ion: 41 Resp: 58772

Ion	Ratio	Lower	Upper
41	100		
76	0.4	22.3	33.5#
39	5.9	66.3	99.5#





#23

Vinyl Acetate

Concen: 0.854 ppbv

RT: 4.639 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 43 Resp: 86643

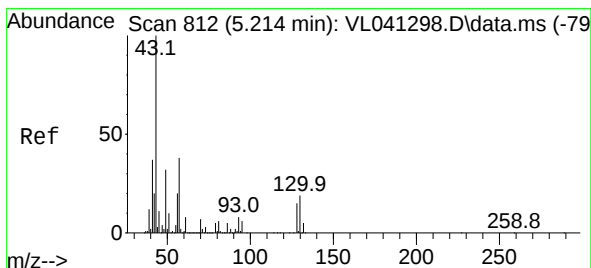
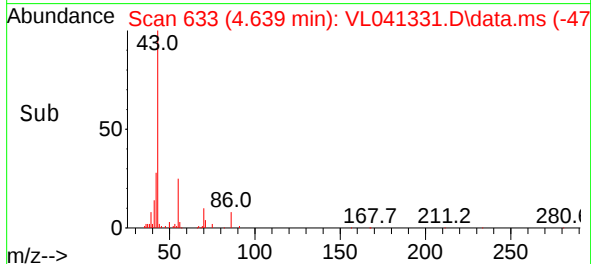
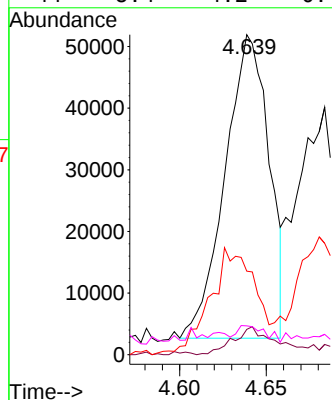
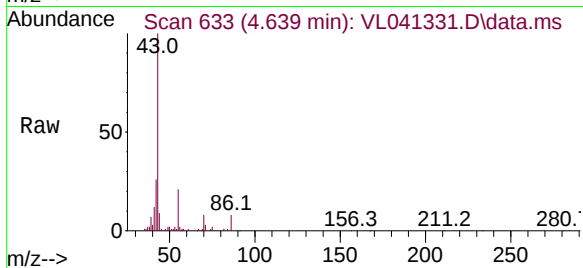
Ion Ratio Lower Upper

43 100

86 7.8 4.7 7.1#

42 24.8 8.0 12.0#

44 5.4 4.2 6.4



#25

Ethyl Acetate

Concen: 4.850 ppbv

RT: 5.234 min Scan# 818

Delta R.T. 0.019 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Tgt Ion: 43 Resp: 951353

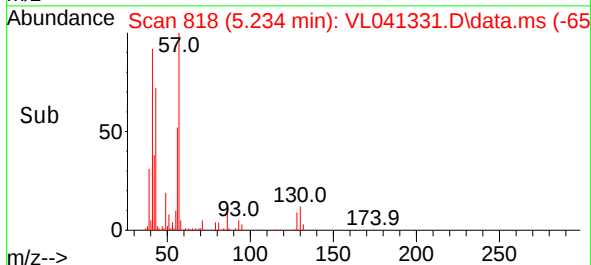
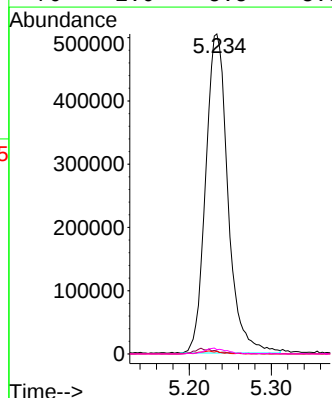
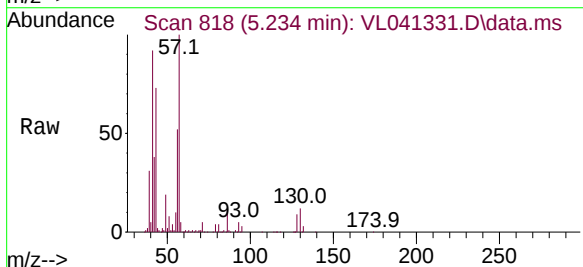
Ion Ratio Lower Upper

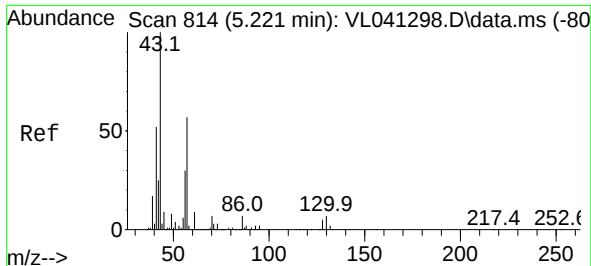
43 100

45 1.8 8.1 12.1#

61 1.0 7.4 11.0#

70 2.0 5.5 8.3#





#26

Hexane

Concen: 14.216 ppbv

RT: 5.234 min Scan# 814

Delta R.T. 0.013 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 57 Resp: 1254019

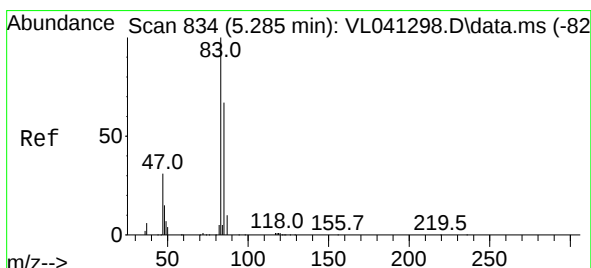
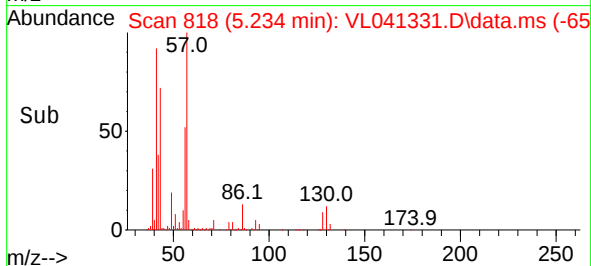
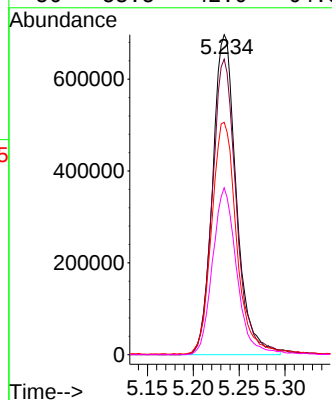
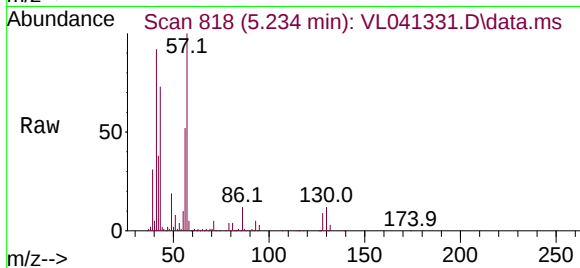
Ion Ratio Lower Upper

57 100

41 94.7 77.1 115.7

43 76.5 186.1 279.1#

56 53.5 42.9 64.3



#29

Chloroform

Concen: 0.455 ppbv

RT: 5.298 min Scan# 838

Delta R.T. 0.013 min

Lab File: VL041331.D

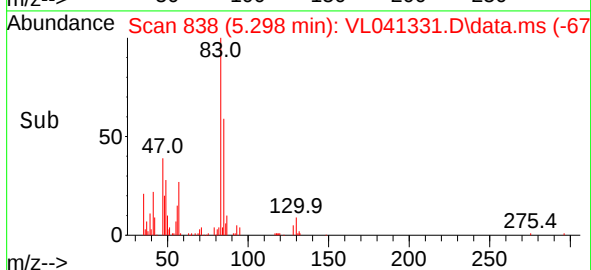
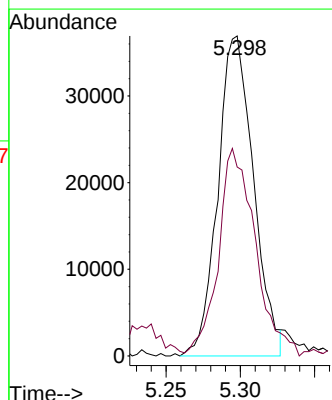
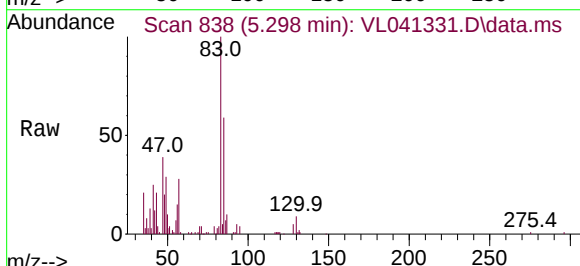
Acq: 5 Jun 2024 17:32

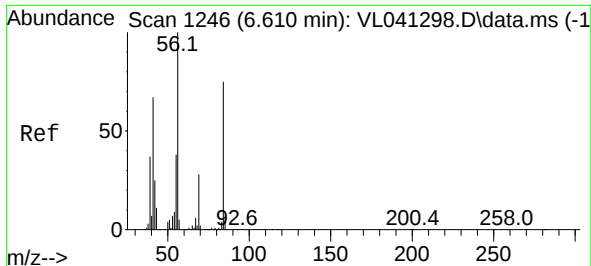
Tgt Ion: 83 Resp: 61632

Ion Ratio Lower Upper

83 100

85 57.6 53.3 79.9





#30

Cyclohexane

Concen: 0.514 ppbv

RT: 6.623 min Scan# 1250

Delta R.T. 0.013 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

IA2

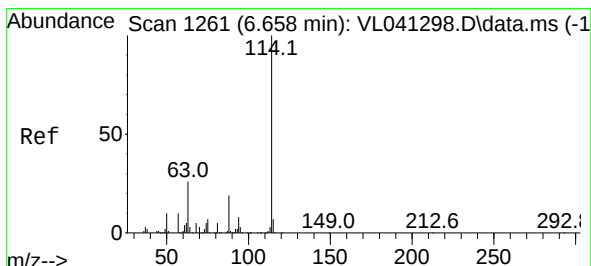
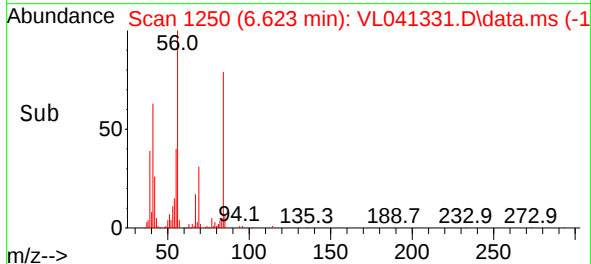
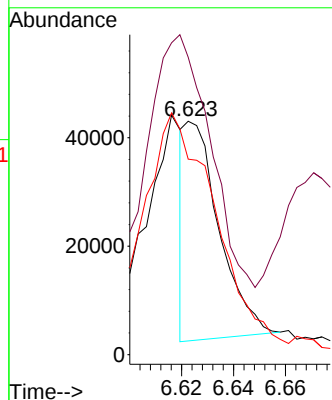
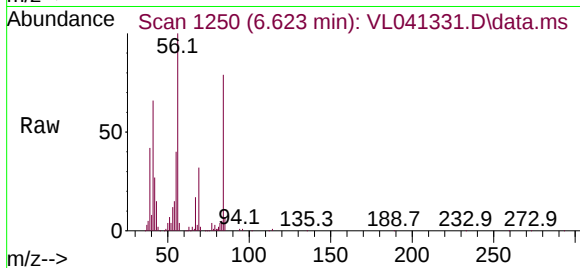
Tgt Ion: 84 Resp: 36731

Ion Ratio Lower Upper

84 100

56 325.5 114.9 172.3#

41 0.0 74.4 111.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 1265

Delta R.T. 0.013 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

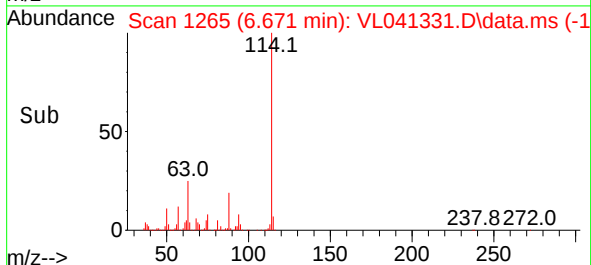
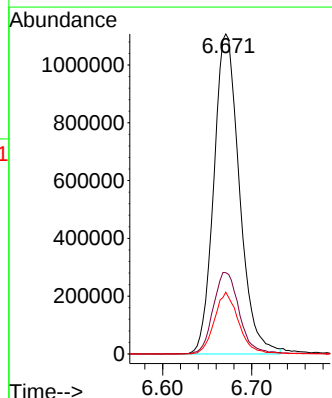
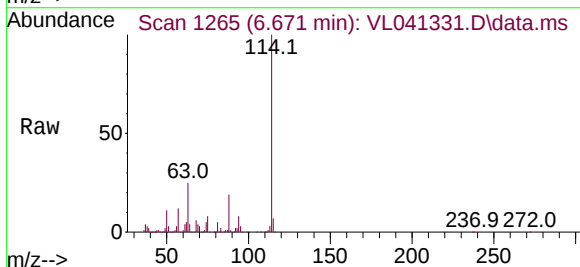
Tgt Ion: 114 Resp: 2212781

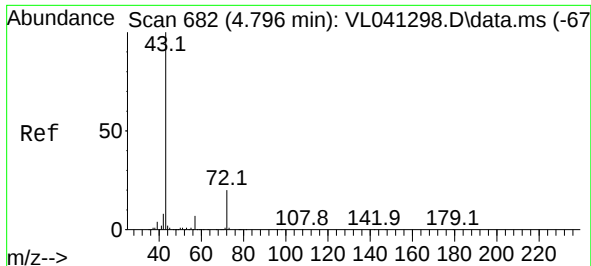
Ion Ratio Lower Upper

114 100

63 26.3 20.6 30.8

88 18.4 14.5 21.7





#34

2-Butanone

Concen: 2.027 ppbv

RT: 4.812 min Scan# 61

Delta R.T. 0.016 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

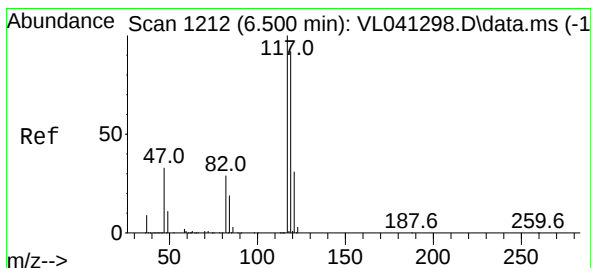
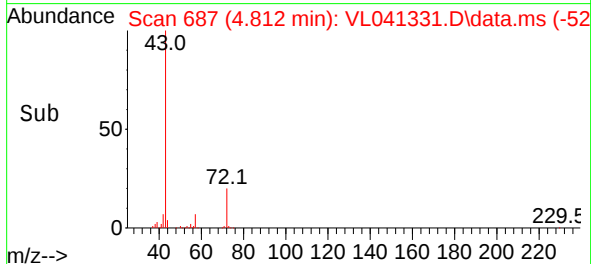
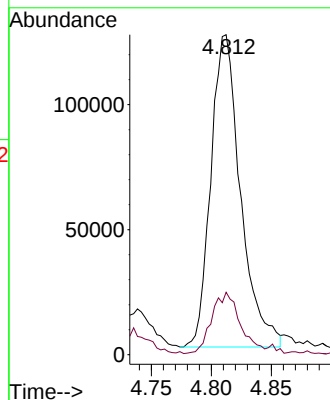
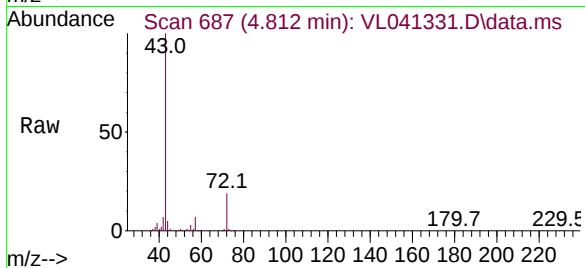
IA2

Tgt Ion: 43 Resp: 214912

Ion Ratio Lower Upper

43 100

72 21.5 17.4 26.0



#35

Carbon Tetrachloride

Concen: 0.059 ppbv

RT: 6.510 min Scan# 1215

Delta R.T. 0.010 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

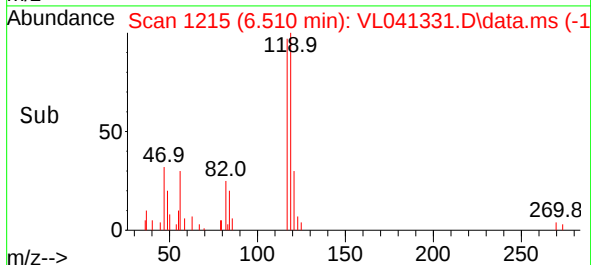
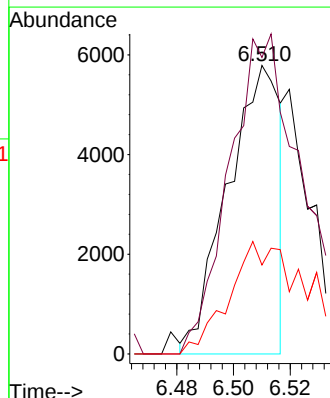
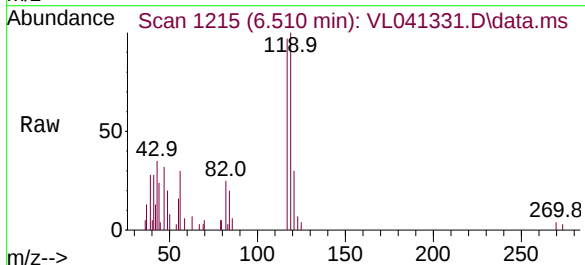
Tgt Ion:117 Resp: 7420

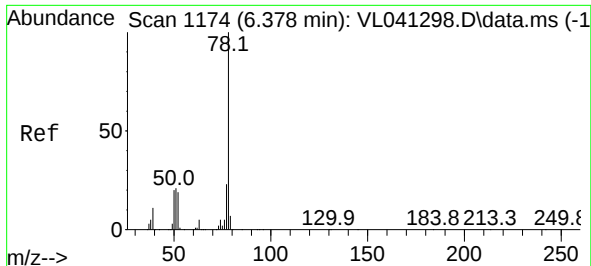
Ion Ratio Lower Upper

117 100

119 106.7 74.0 111.0

121 32.0 24.8 37.2

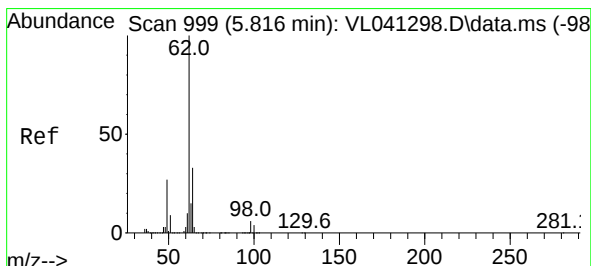
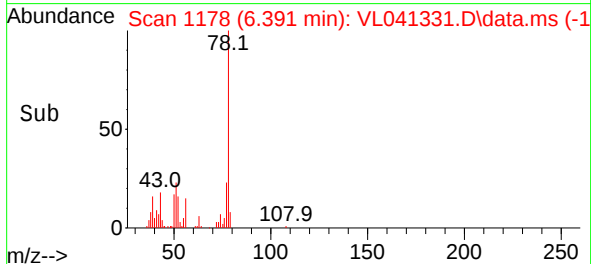
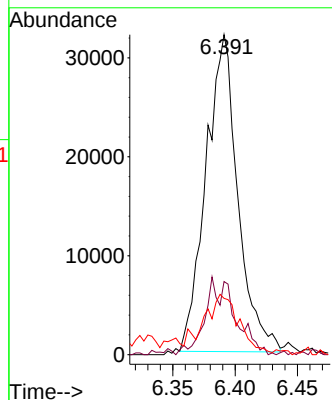
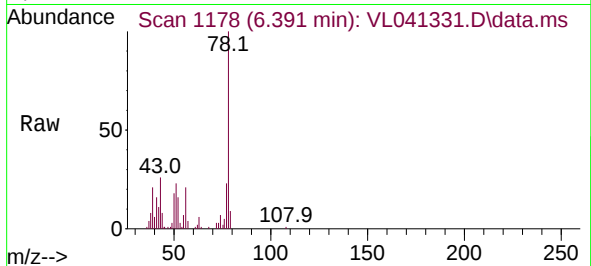




#36
Benzene
Concen: 0.334 ppbv
RT: 6.391 min Scan# 1178
Delta R.T. 0.013 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

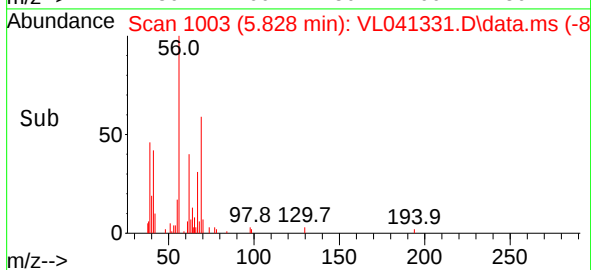
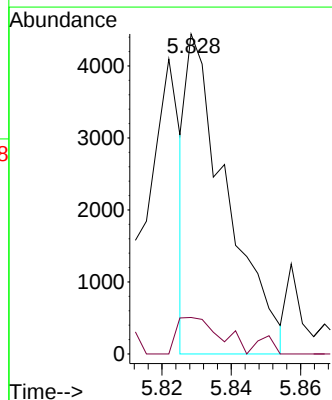
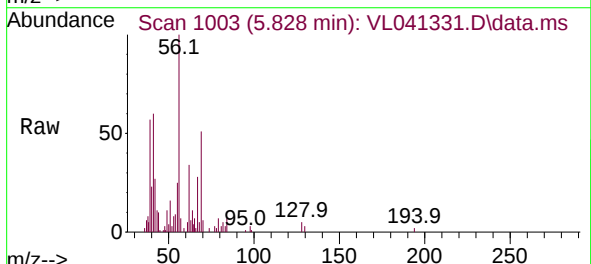
Instrument :
MSVOA_L
ClientSampleId :
IA2

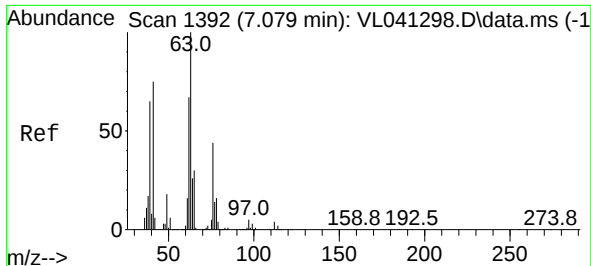
Tgt Ion: 78 Resp: 57213
Ion Ratio Lower Upper
78 100
77 22.4 18.6 28.0
50 16.6 16.0 24.0



#37
1,2-Dichloroethane
Concen: 0.036 ppbv
RT: 5.828 min Scan# 1003
Delta R.T. 0.013 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

Tgt Ion: 62 Resp: 3581
Ion Ratio Lower Upper
62 100
98 17.3 4.8 7.2#





#39

1,2-Dichloropropane

Concen: 8.288 ppbv

RT: 6.668 min Scan# 1

Delta R.T. -0.412 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

IA2

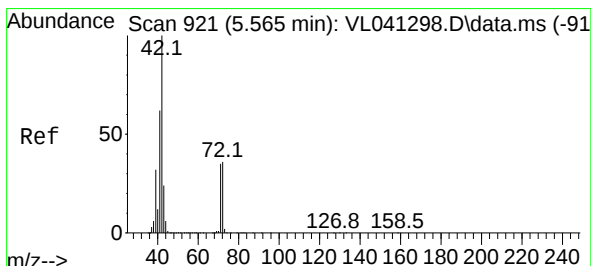
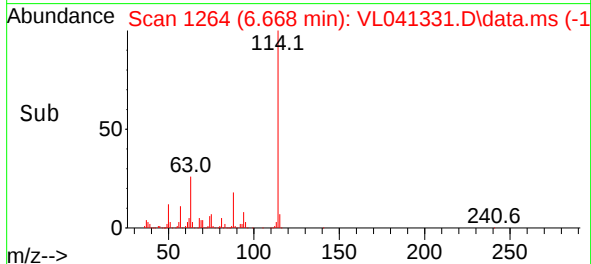
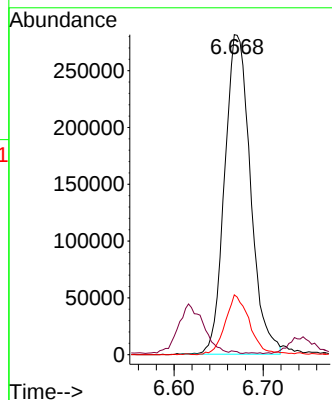
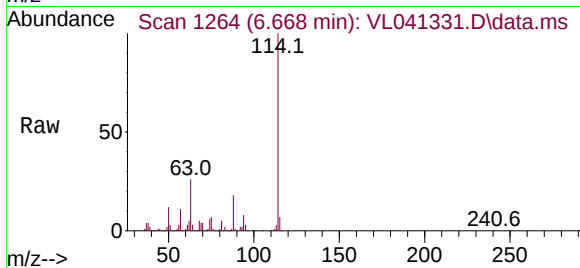
Tgt Ion: 63 Resp: 566005

Ion Ratio Lower Upper

63 100

41 0.0 59.9 89.9#

62 18.6 53.8 80.6#



#41

Tetrahydrofuran

Concen: 0.100 ppbv

RT: 5.581 min Scan# 926

Delta R.T. 0.016 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

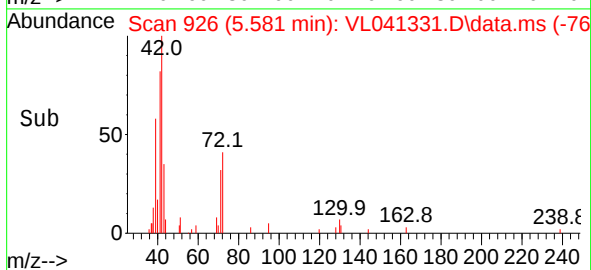
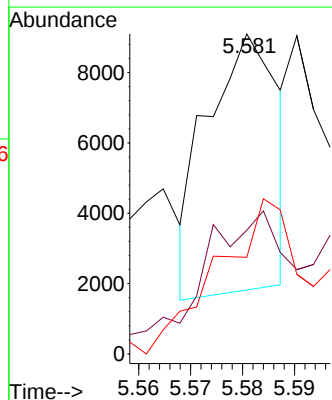
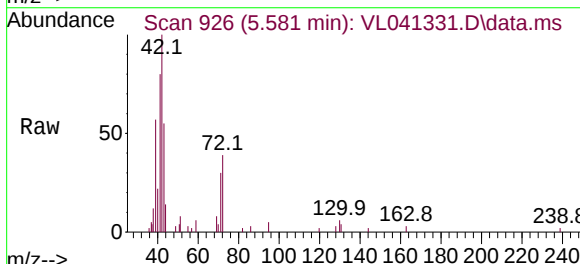
Tgt Ion: 42 Resp: 6896

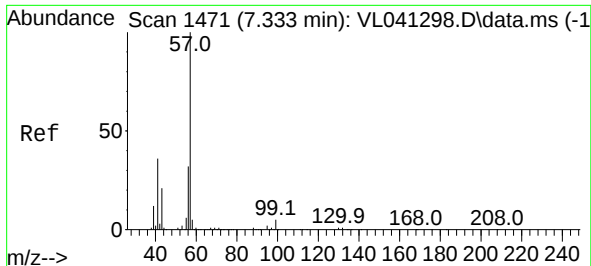
Ion Ratio Lower Upper

42 100

72 121.2 30.2 45.4#

71 107.5 30.3 45.5#





#44

2,2,4-Trimethylpentane

Concen: 0.118 ppbv

RT: 7.349 min Scan# 1471

Delta R.T. 0.016 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

IA2

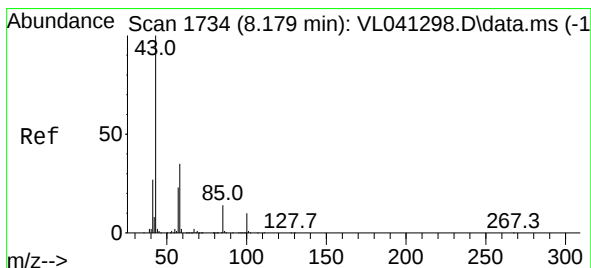
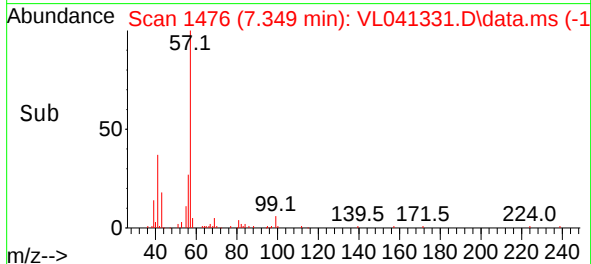
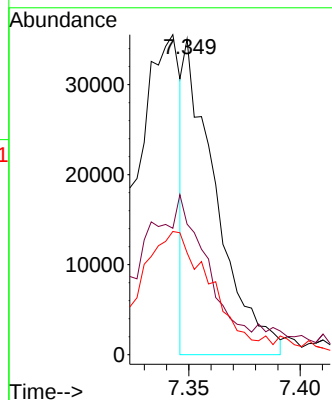
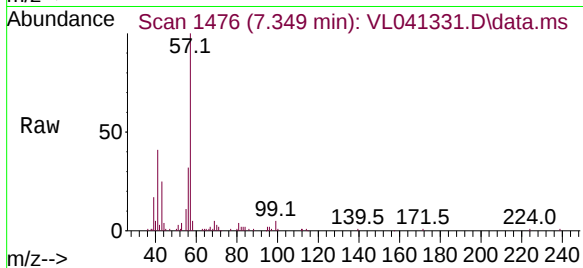
Tgt Ion: 57 Resp: 34846

Ion Ratio Lower Upper

57 100

41 122.1 29.4 44.2#

56 0.0 25.0 37.4#



#50

4-Methyl-2-Pentanone

Concen: 0.041 ppbv

RT: 8.201 min Scan# 1741

Delta R.T. 0.022 min

Lab File: VL041331.D

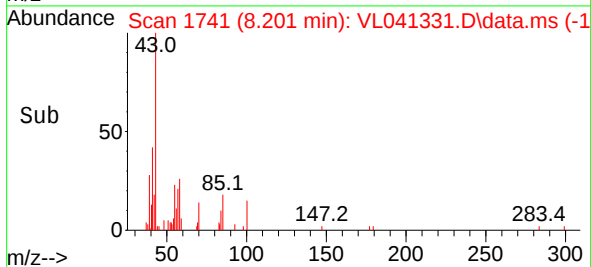
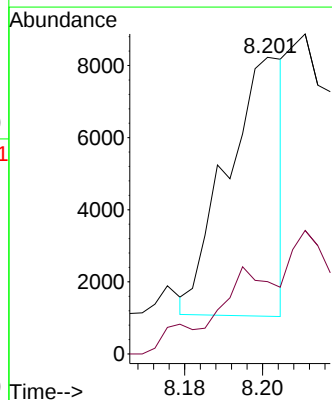
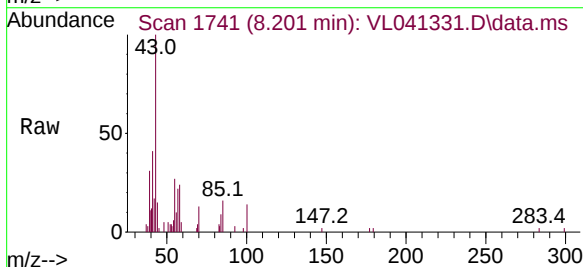
Acq: 5 Jun 2024 17:32

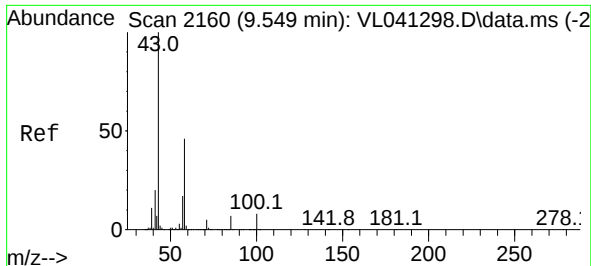
Tgt Ion: 43 Resp: 7156

Ion Ratio Lower Upper

43 100

58 0.0 27.7 41.5#

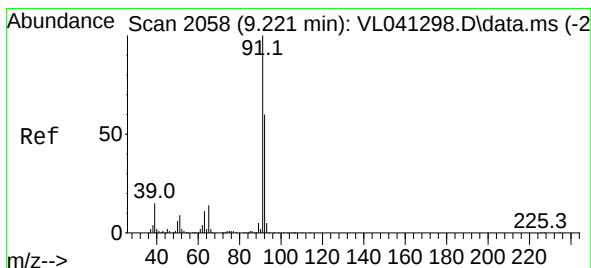
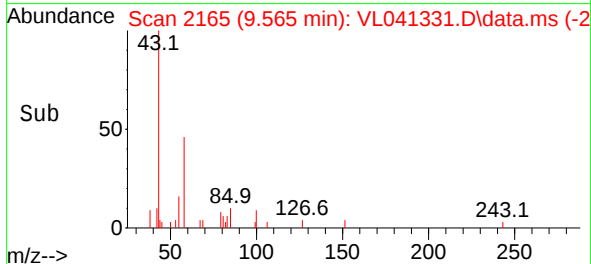
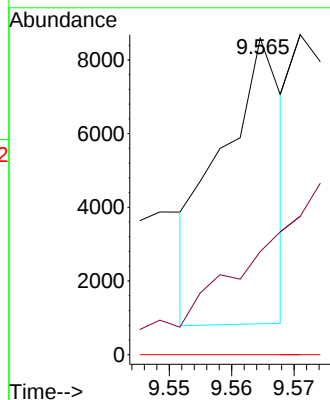
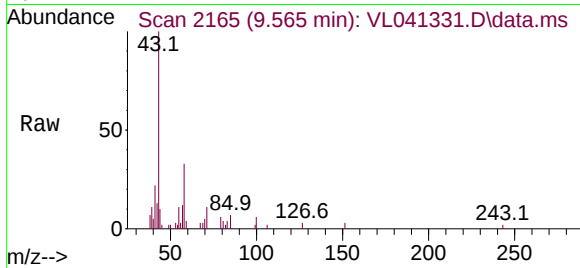




#51
2-Hexanone
Concen: 0.043 ppbv
RT: 9.565 min Scan# 2160
Delta R.T. 0.016 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

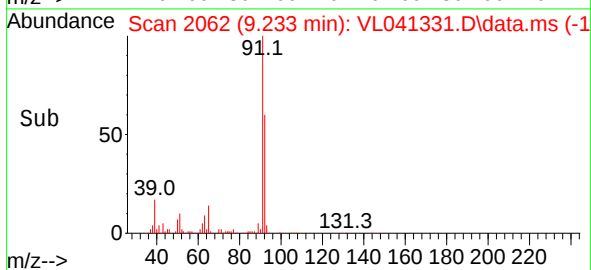
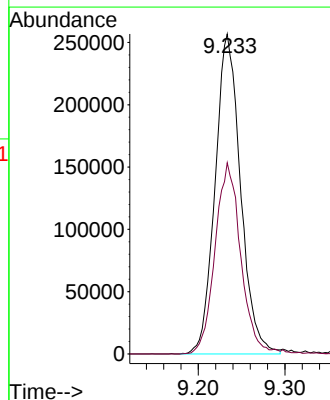
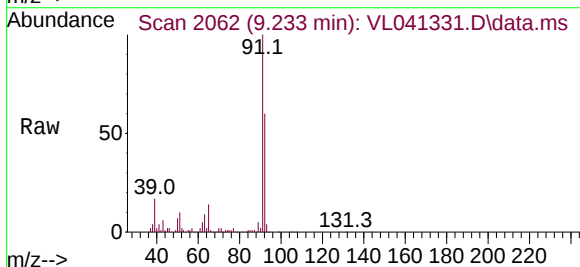
Instrument :
MSVOA_L
ClientSampleId :
IA2

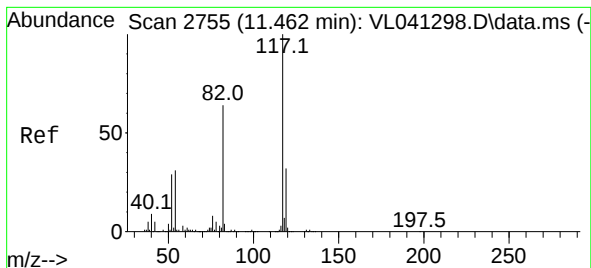
Tgt Ion: 43 Resp: 5350
Ion Ratio Lower Upper
43 100
58 0.0 37.4 56.0#
98 0.0 0.2 0.4#



#53
Toluene
Concen: 2.655 ppbv
RT: 9.233 min Scan# 2062
Delta R.T. 0.013 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

Tgt Ion: 91 Resp: 523695
Ion Ratio Lower Upper
91 100
92 60.7 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: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

IA2

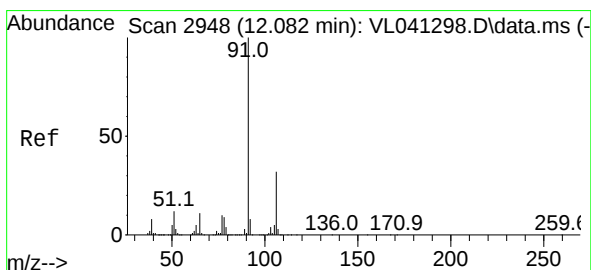
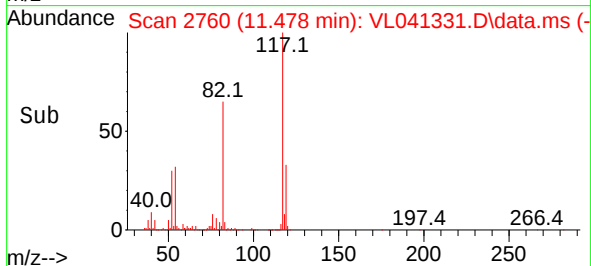
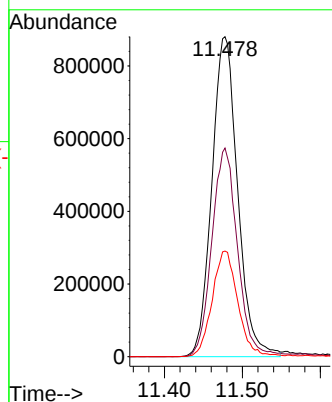
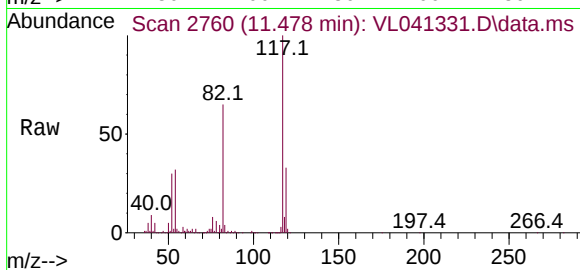
Tgt Ion:117 Resp: 2027114

Ion Ratio Lower Upper

117 100

82 65.9 52.3 78.5

119 33.6 26.2 39.2



#58

Ethyl Benzene

Concen: 0.203 ppbv

RT: 12.098 min Scan# 2953

Delta R.T. 0.016 min

Lab File: VL041331.D

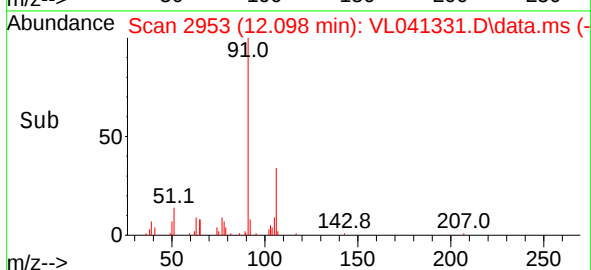
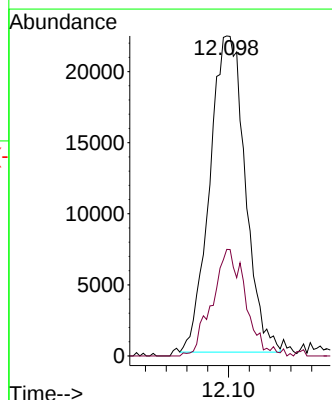
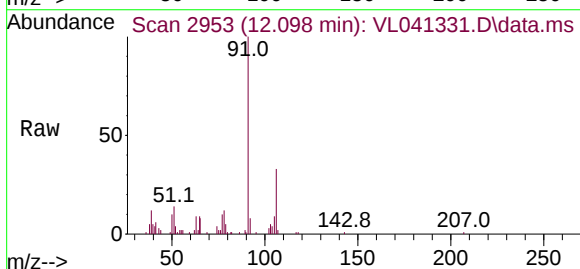
Acq: 5 Jun 2024 17:32

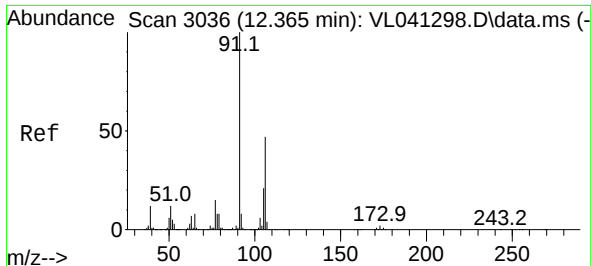
Tgt Ion: 91 Resp: 52805

Ion Ratio Lower Upper

91 100

106 33.7 25.5 38.3





#59

m/p-Xylene

Concen: 0.260 ppbv

RT: 12.375 min Scan# 3036

Delta R.T. 0.010 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

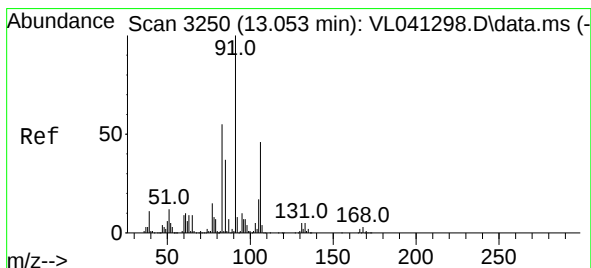
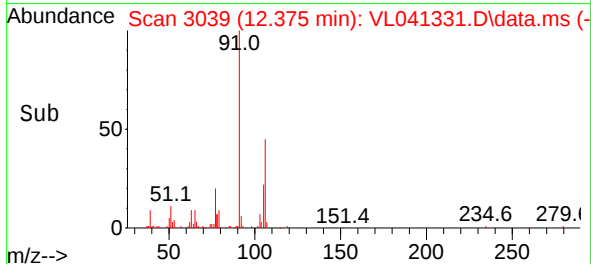
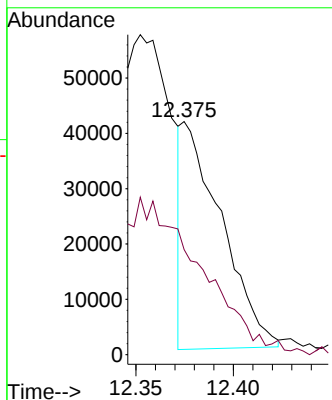
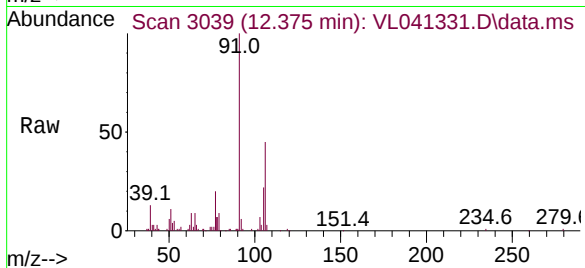
IA2

Tgt Ion: 91 Resp: 57806

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#



#60

o-Xylene

Concen: 0.166 ppbv

RT: 13.072 min Scan# 3256

Delta R.T. 0.019 min

Lab File: VL041331.D

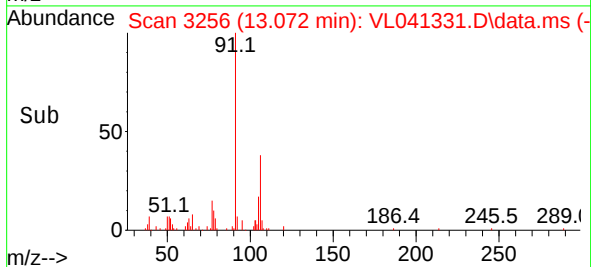
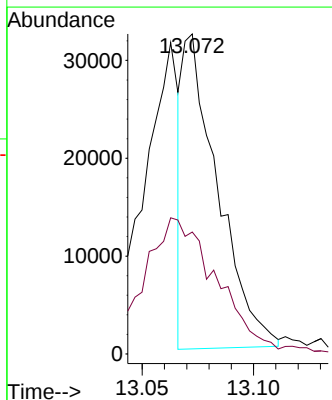
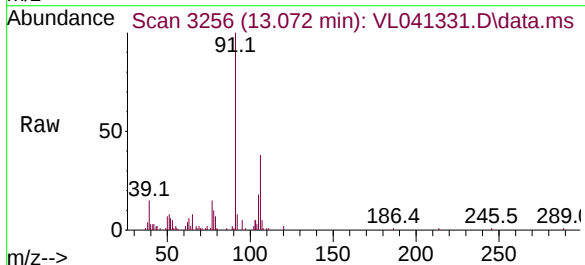
Acq: 5 Jun 2024 17:32

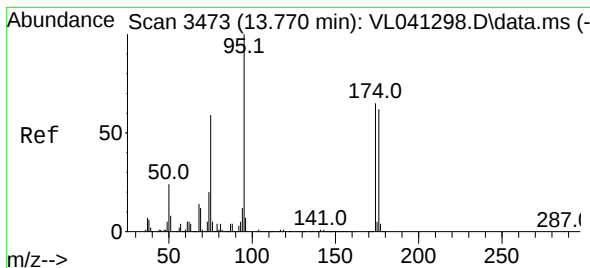
Tgt Ion: 91 Resp: 35183

Ion Ratio Lower Upper

91 100

106 0.0 22.8 68.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.998 ppbv

RT: 13.786 min Scan# 3473

Delta R.T. 0.016 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

IA2

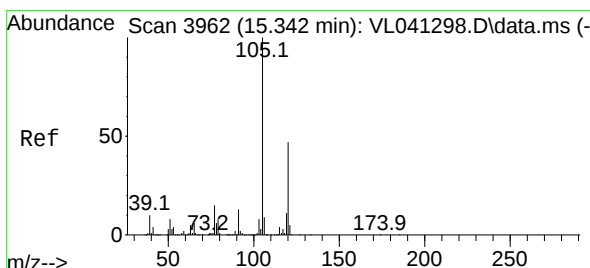
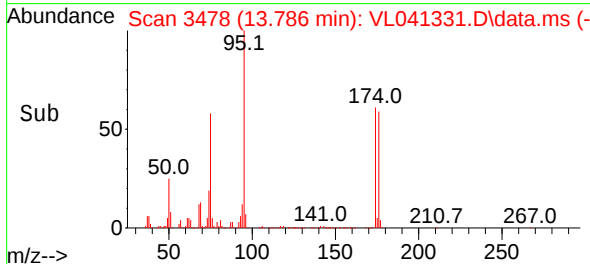
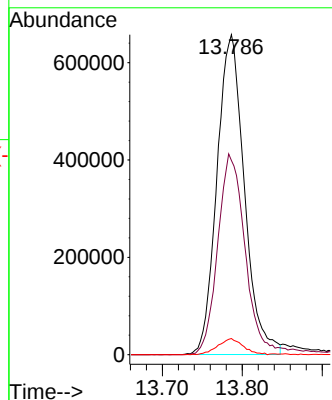
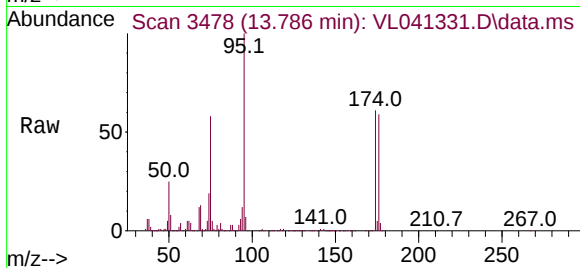
Tgt Ion: 95 Resp: 1564765

Ion Ratio Lower Upper

95 100

174 65.2 52.2 78.2

175 4.9 4.1 6.1



#73

1,3,5-Trimethylbenzene

Concen: 0.037 ppbv

RT: 15.365 min Scan# 3969

Delta R.T. 0.022 min

Lab File: VL041331.D

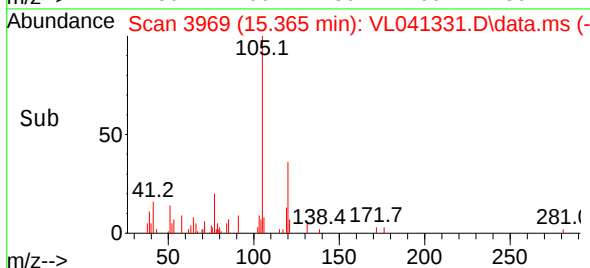
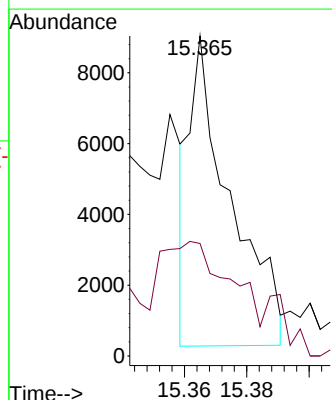
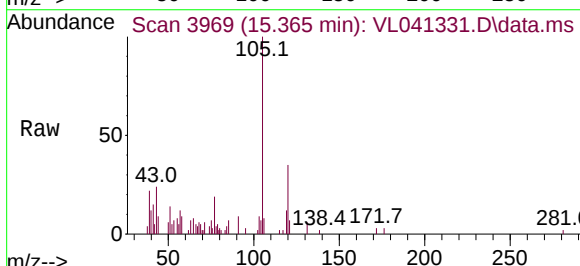
Acq: 5 Jun 2024 17:32

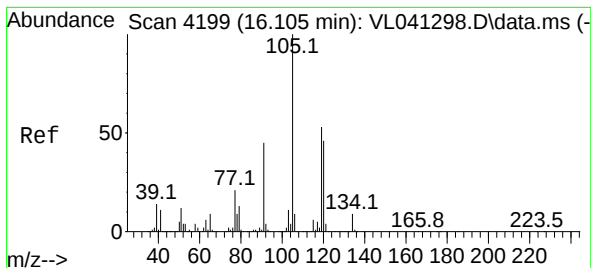
Tgt Ion:105 Resp: 7949

Ion Ratio Lower Upper

105 100

120 26.2 37.8 56.8#





#74

1,2,4-Trimethylbenzene

Concen: 0.203 ppbv

RT: 16.117 min Scan# 4199

Delta R.T. 0.013 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion:105 Resp: 49383

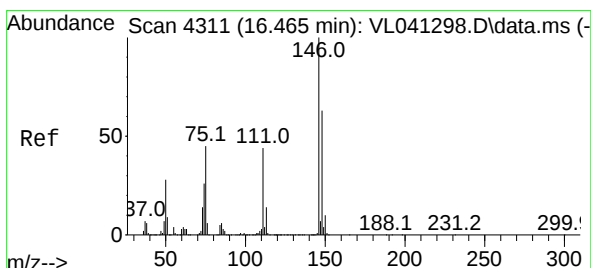
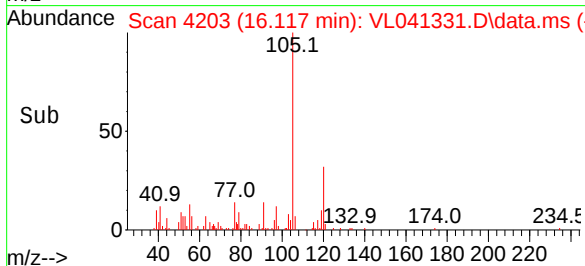
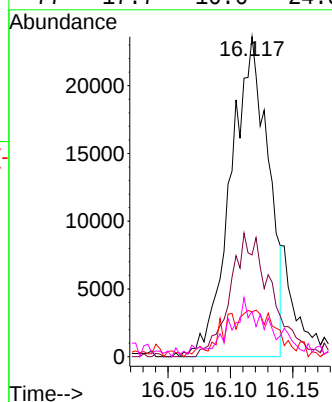
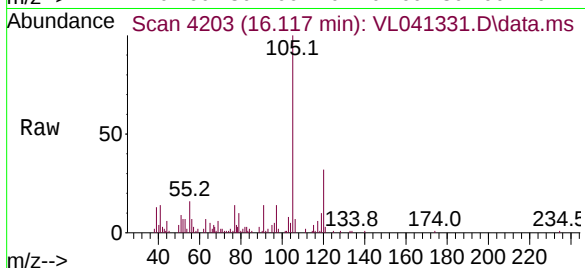
Ion Ratio Lower Upper

105 100

120 35.0 37.0 55.6#

91 12.9 36.2 54.4#

77 17.7 16.6 24.8



#76

1,4-Dichlorobenzene

Concen: 0.042 ppbv

RT: 16.481 min Scan# 4316

Delta R.T. 0.016 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Tgt Ion:146 Resp: 5969

Ion Ratio Lower Upper

146 100

111 125.2 23.3 69.9#

148 125.6 32.9 98.6#

