

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080824\
 Data File : VL041511.D
 Acq On : 8 Aug 2024 13:45
 Operator : SY/MD
 Sample : P3496-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-CS

Quant Time: Aug 09 05:54:42 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	5.182	49	836210	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	2297076	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2220803	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1611547	9.430	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.300%

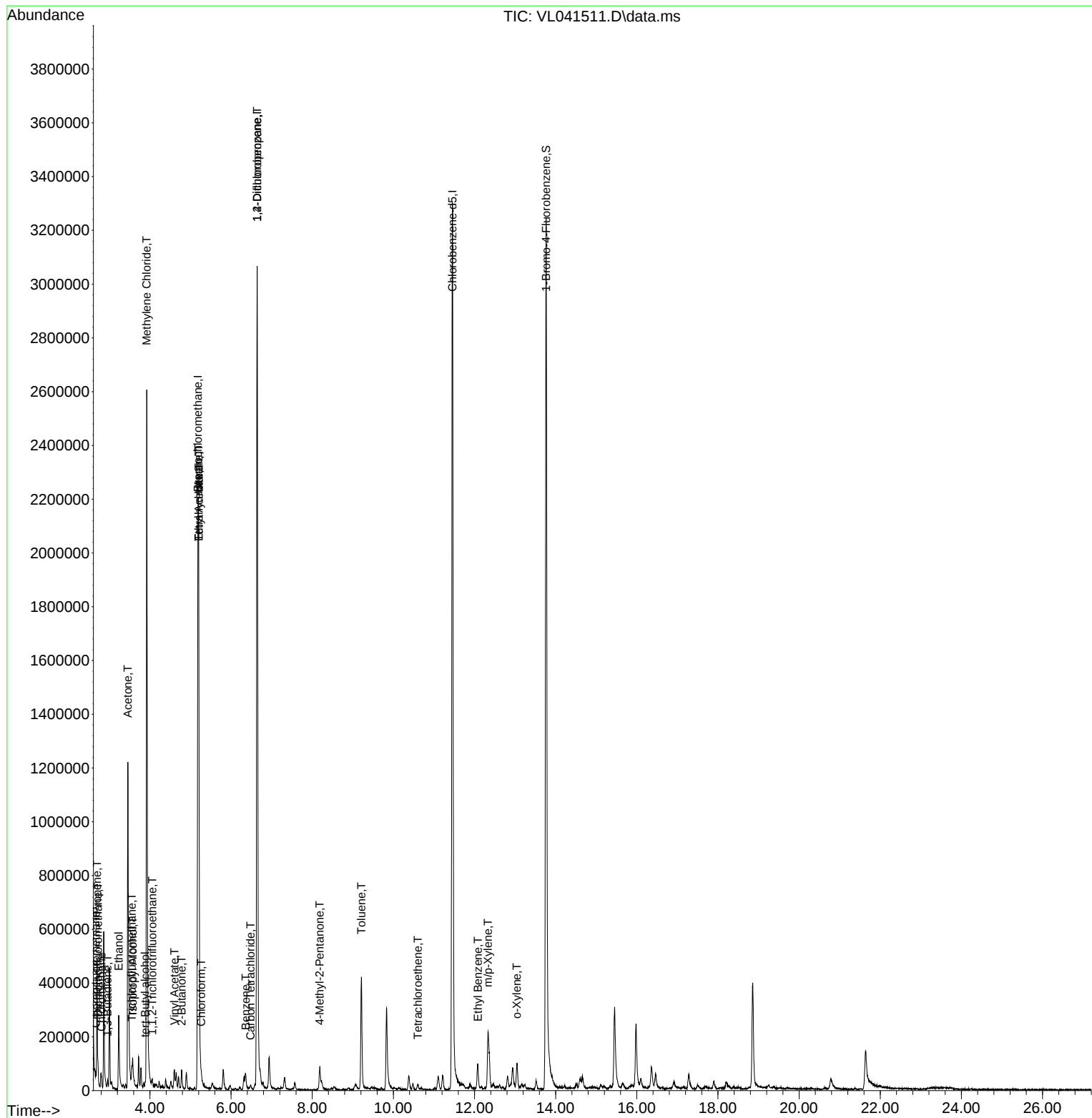
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.719	85	36052	0.251	ppbv	94
3) Chlorodifluoromethane	2.668	51	67087	0.674	ppbv #	89
4) Chloromethane	2.806	50	30765	0.581	ppbv	99
9) Propene	2.697	41	91848	2.008	ppbv #	70
11) Trichlorofluoromethane	3.552	101	32289	0.253	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.057	101	4403	0.048	ppbv #	12
13) Ethanol	3.230	45	278358	68.105	ppbv	95
15) Acetone	3.455	43	1256293	13.223	ppbv	99
16) 1,3-Butadiene	2.954	39	7710	0.152	ppbv #	31
17) tert-Butyl alcohol	3.880	59	6025	0.070	ppbv #	56
19) Isopropyl Alcohol	3.578	45	92419	1.664	ppbv #	1
20) Methylene Chloride	3.922	84	856200	24.166	ppbv	98
23) Vinyl Acetate	4.603	43	39152	0.540	ppbv #	54
25) Ethyl Acetate	5.205	43	444305	2.354	ppbv #	78
26) Hexane	5.201	57	598930	7.649	ppbv #	38
29) Chloroform	5.266	83	4042	0.032	ppbv	85
34) 2-Butanone	4.783	43	72951	0.657	ppbv	94
35) Carbon Tetrachloride	6.481	117	8350	0.066	ppbv #	84
36) Benzene	6.362	78	17184	0.102	ppbv	96
39) 1,2-Dichloropropane	6.642	63	558470	8.691	ppbv #	25
41) Tetrahydrofuran	5.205	42	245888	3.869	ppbv #	49
50) 4-Methyl-2-Pentanone	8.182	43	30162	0.172	ppbv #	40
52) Tetrachloroethene	10.600	164	2352	0.036	ppbv #	77
53) Toluene	9.214	91	314888	1.684	ppbv	97
58) Ethyl Benzene	12.082	91	34011	0.133	ppbv	100
59) m/p-Xylene	12.333	91	225425	1.020	ppbv	95
60) o-Xylene	13.043	91	71625	0.343	ppbv	97

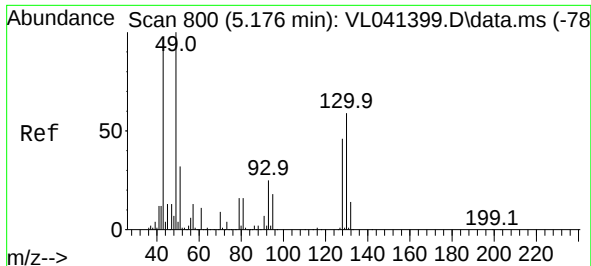
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 06 01:32:58 2024
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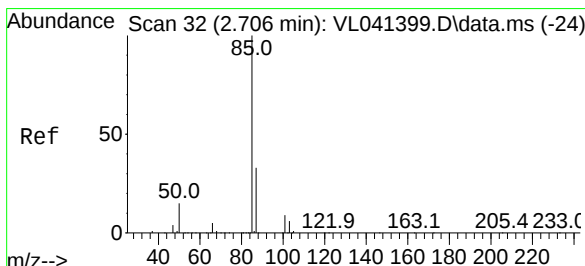
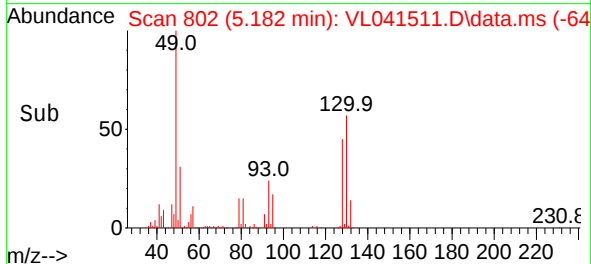
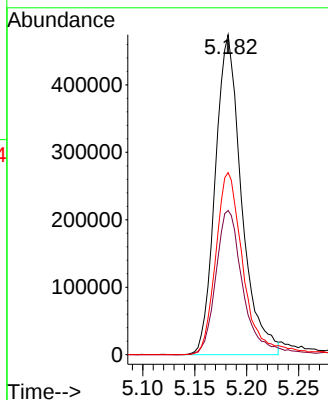
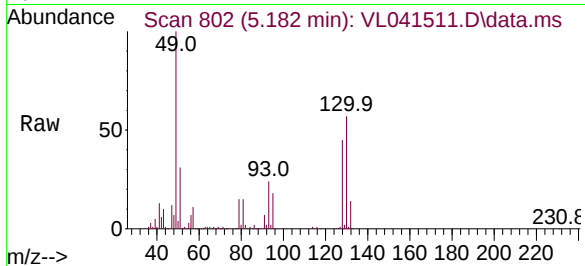




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL041511.D
Acq: 8 Aug 2024 13:45

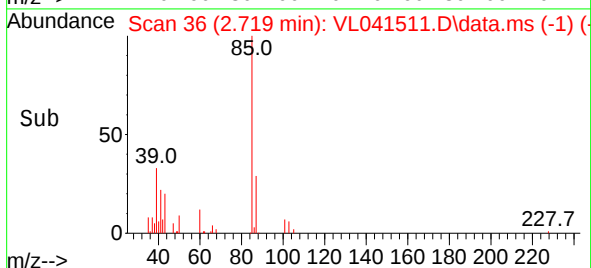
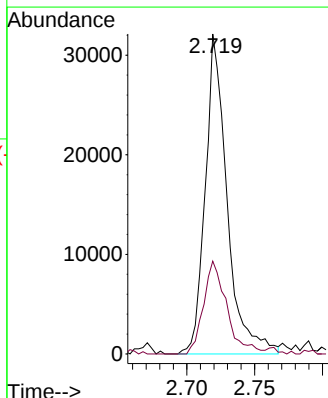
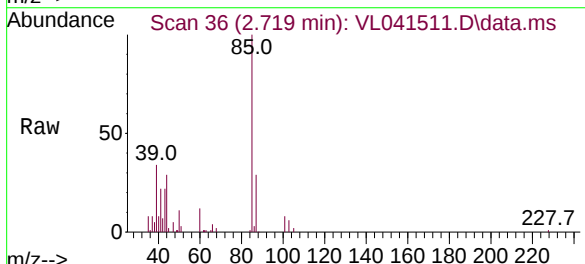
Instrument :
MSVOA_L
ClientSampleId :
B-CS

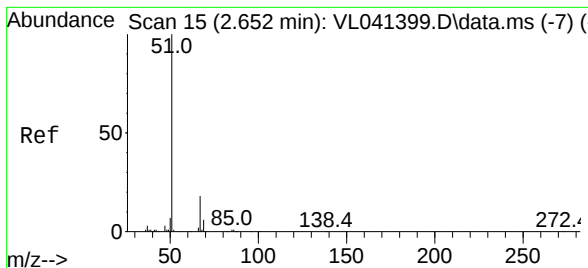
Tgt Ion: 49 Resp: 836210
Ion Ratio Lower Upper
49 100
128 48.0 23.8 71.4
130 61.3 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.251 ppbv
RT: 2.719 min Scan# 36
Delta R.T. -0.013 min
Lab File: VL041511.D
Acq: 8 Aug 2024 13:45

Tgt Ion: 85 Resp: 36052
Ion Ratio Lower Upper
85 100
87 29.0 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.674 ppbv

RT: 2.668 min Scan# 20

Delta R.T. -0.010 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

Instrument :

MSVOA_L

ClientSampleId :

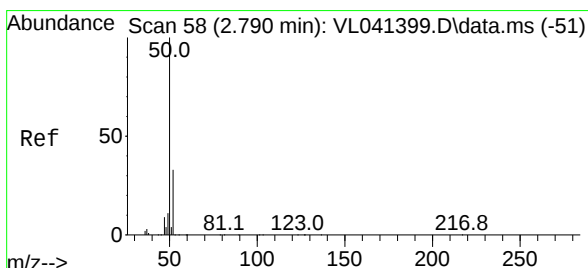
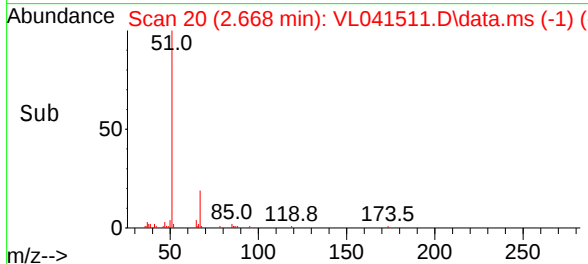
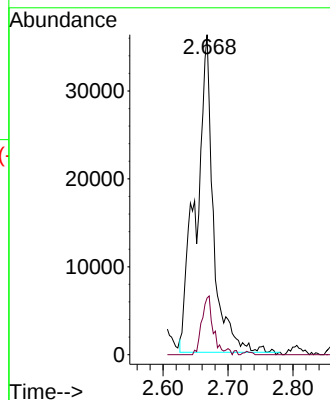
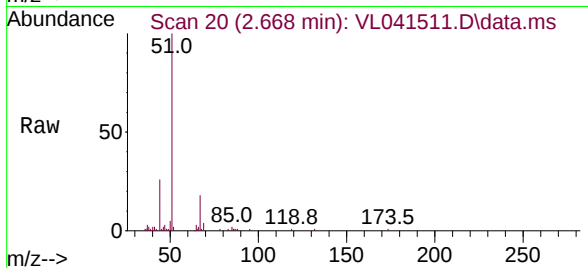
B-CS

Tgt Ion: 51 Resp: 67087

Ion Ratio Lower Upper

51 100

67 13.0 14.5 21.7#



#4

Chloromethane

Concen: 0.581 ppbv

RT: 2.806 min Scan# 63

Delta R.T. -0.010 min

Lab File: VL041511.D

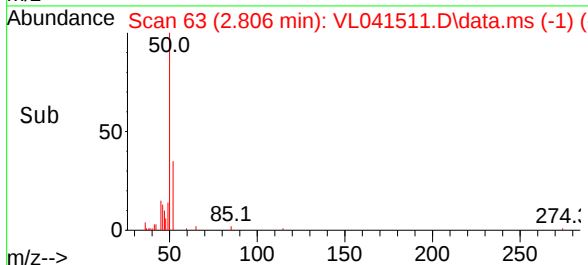
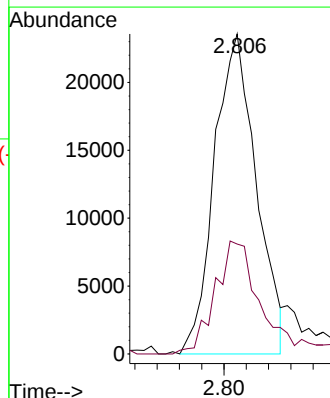
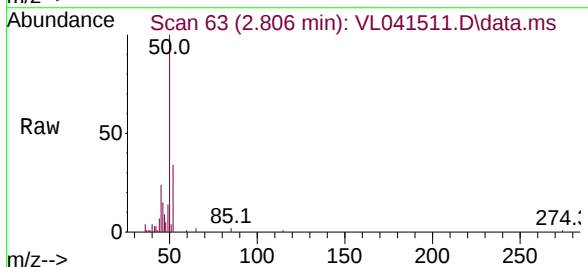
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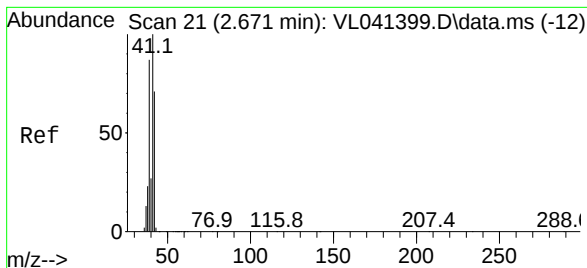
Tgt Ion: 50 Resp: 30765

Ion Ratio Lower Upper

50 100

52 33.2 26.1 39.1





#9

Propene

Concen: 2.008 ppbv

RT: 2.697 min Scan# 20

Delta R.T. -0.000 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

Instrument :

MSVOA_L

ClientSampleId :

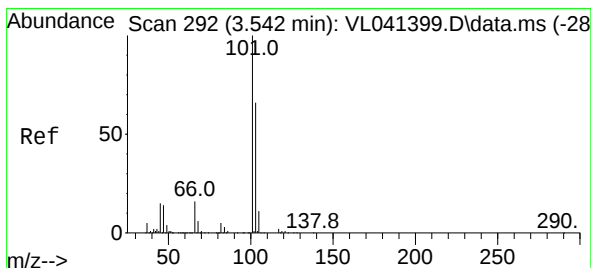
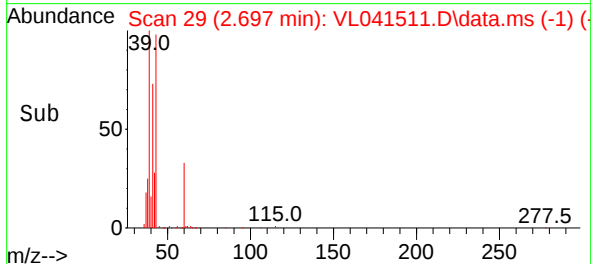
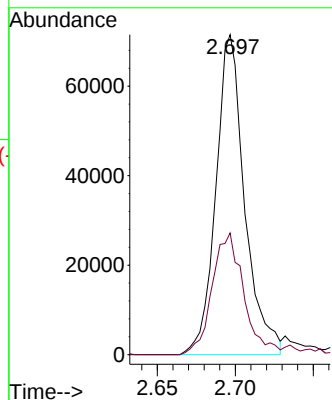
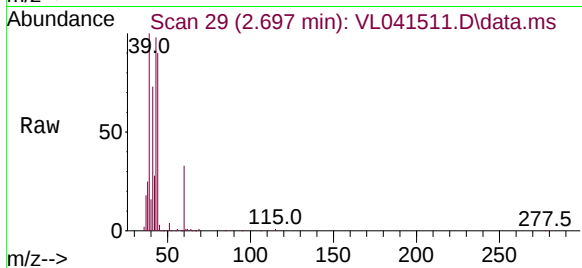
B-CS

Tgt Ion: 41 Resp: 91848

Ion Ratio Lower Upper

41 100

42 44.9 55.9 83.9#



#11

Trichlorofluoromethane

Concen: 0.253 ppbv

RT: 3.552 min Scan# 295

Delta R.T. -0.010 min

Lab File: VL041511.D

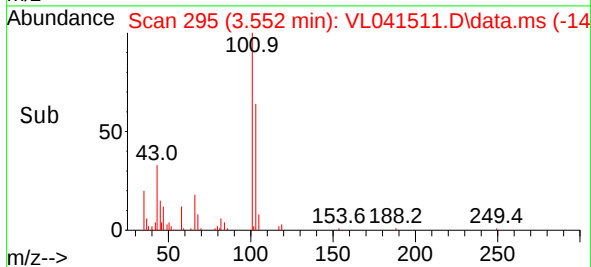
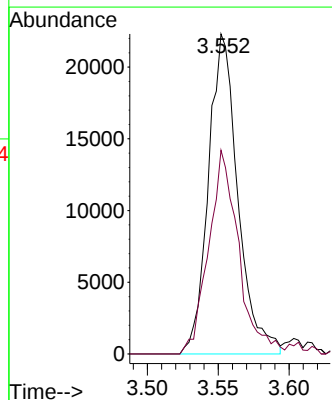
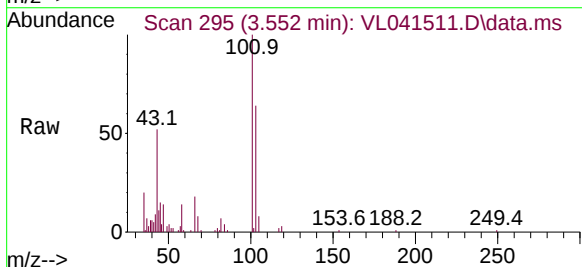
Acq: 8 Aug 2024 13:45

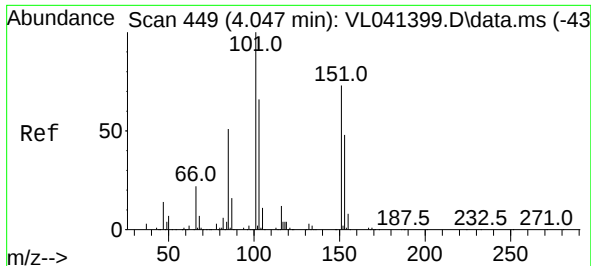
Tgt Ion:101 Resp: 32289

Ion Ratio Lower Upper

101 100

103 63.6 52.6 79.0

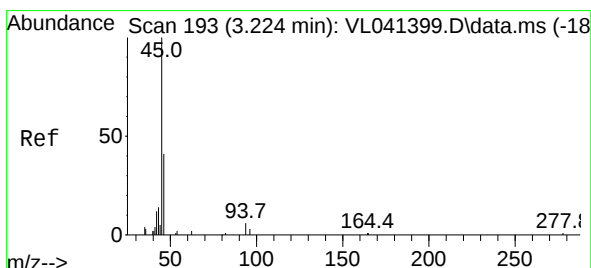
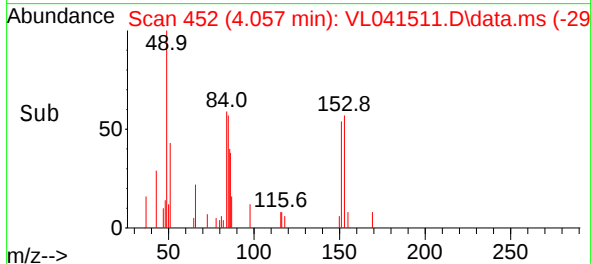
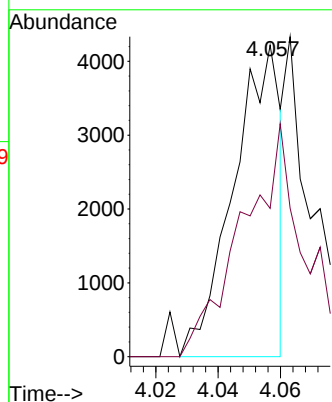
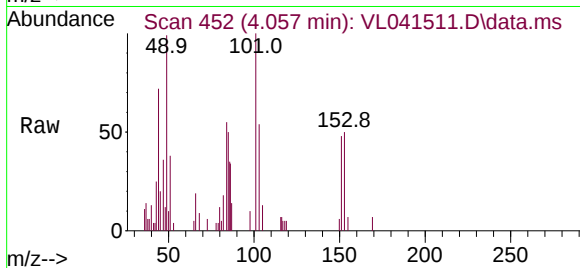




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.048 ppbv
RT: 4.057 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL041511.D
Acq: 8 Aug 2024 13:45

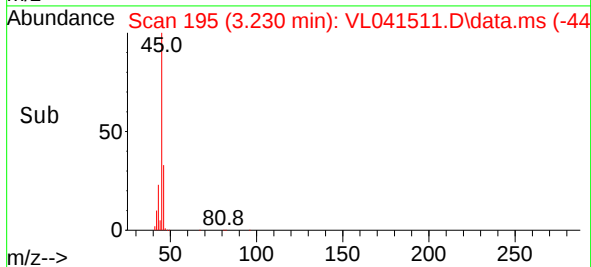
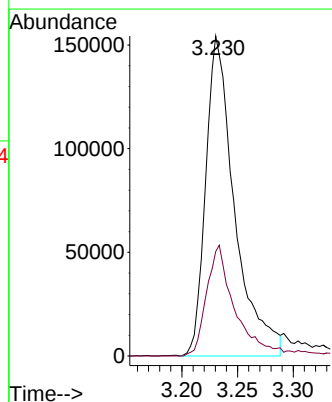
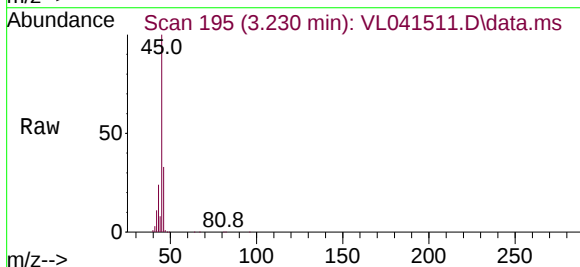
Instrument :
MSVOA_L
ClientSampleId :
B-CS

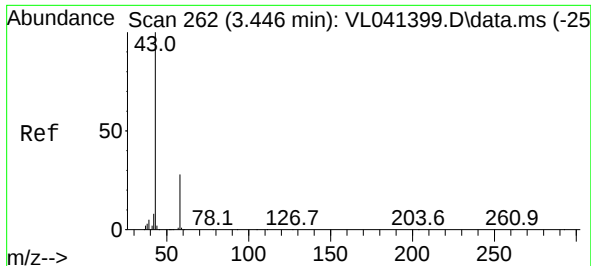
Tgt Ion:101 Resp: 4403
Ion Ratio Lower Upper
101 100
151 0.0 59.4 89.2#



#13
Ethanol
Concen: 68.105 ppbv
RT: 3.230 min Scan# 195
Delta R.T. -0.013 min
Lab File: VL041511.D
Acq: 8 Aug 2024 13:45

Tgt Ion: 45 Resp: 278358
Ion Ratio Lower Upper
45 100
46 36.2 13.4 53.4





#15

Acetone

Concen: 13.223 ppbv

RT: 3.455 min Scan# 2

Delta R.T. -0.013 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

Instrument :

MSVOA_L

ClientSampleId :

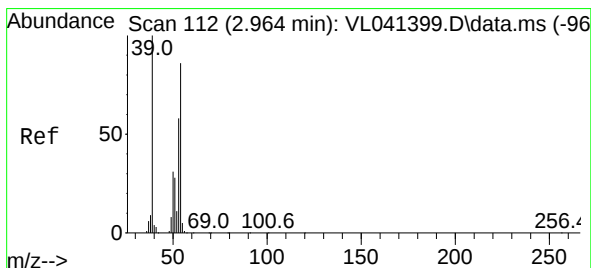
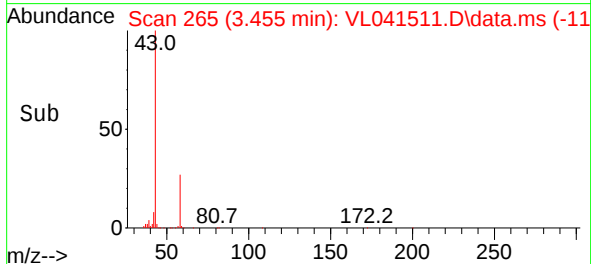
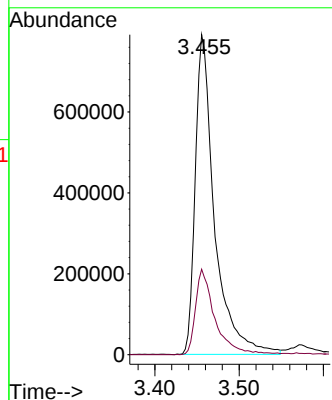
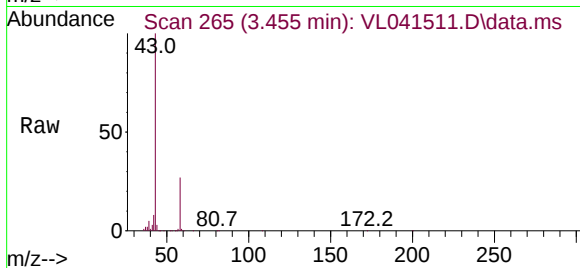
B-CS

Tgt Ion: 43 Resp: 1256293

Ion Ratio Lower Upper

43 100

58 27.2 21.4 32.2



#16

1,3-Butadiene

Concen: 0.152 ppbv

RT: 2.954 min Scan# 109

Delta R.T. -0.032 min

Lab File: VL041511.D

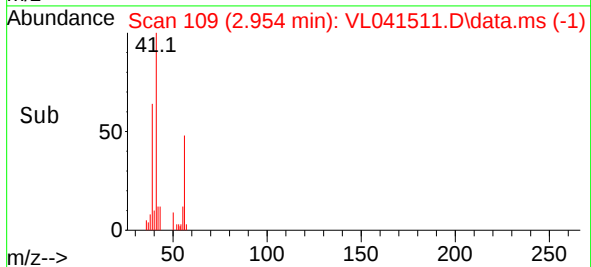
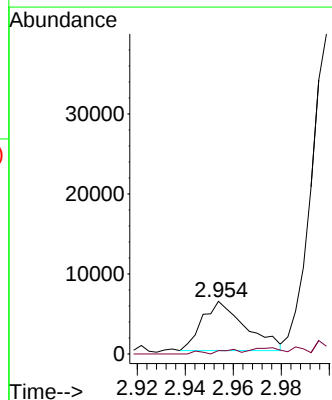
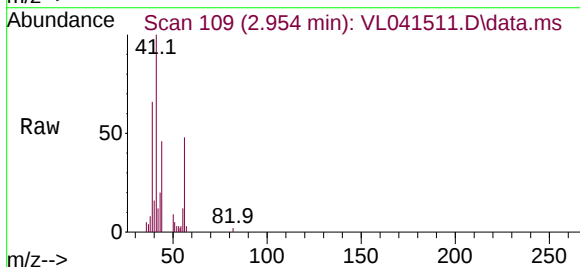
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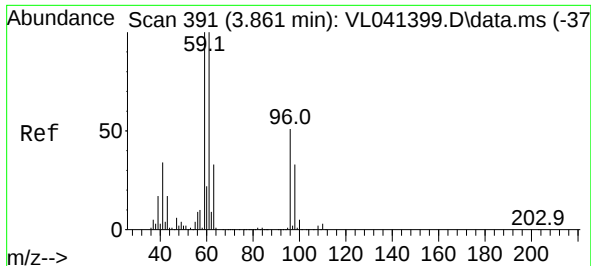
Tgt Ion: 39 Resp: 7710

Ion Ratio Lower Upper

39 100

54 18.1 62.5 93.7#

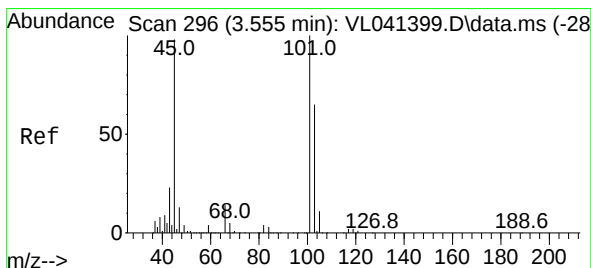
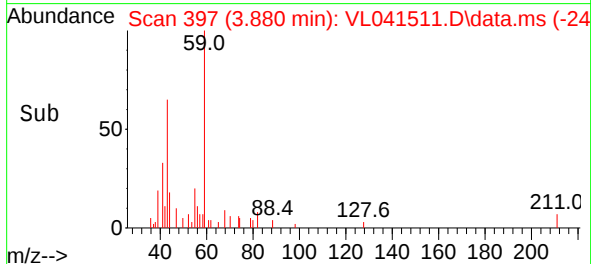
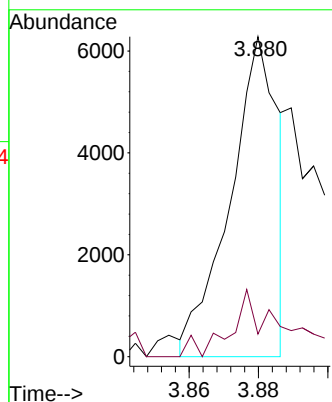
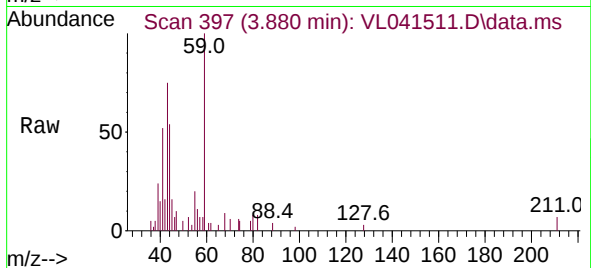




#17
tert-Butyl alcohol
Concen: 0.070 ppbv
RT: 3.880 min Scan# 303
Delta R.T. 0.003 min
Lab File: VL041511.D
Acq: 8 Aug 2024 13:45

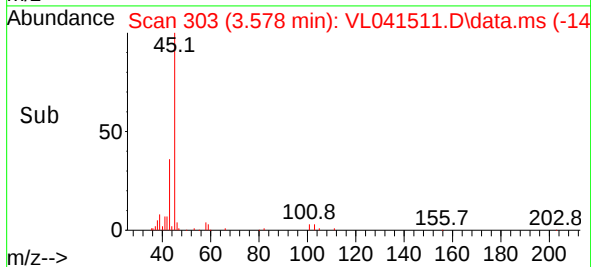
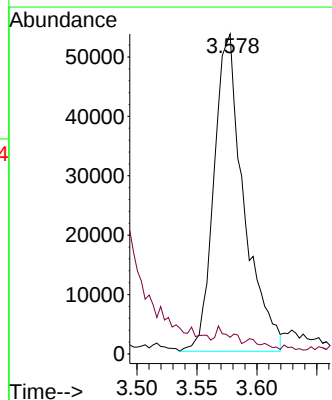
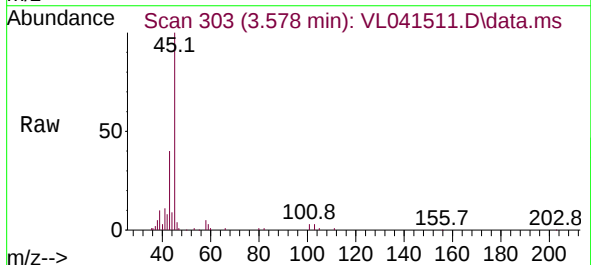
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B-CS

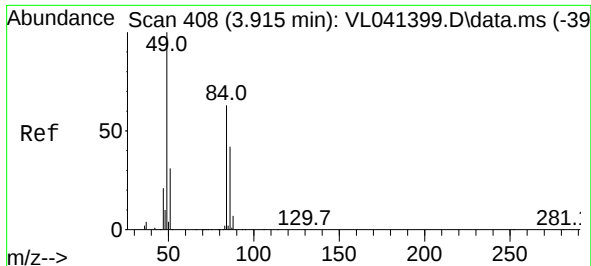
Tgt Ion: 59 Resp: 6025
Ion Ratio Lower Upper
59 100
57 27.2 8.6 12.8#



#19
Isopropyl Alcohol
Concen: 1.664 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.003 min
Lab File: VL041511.D
Acq: 8 Aug 2024 13:45

Tgt Ion: 45 Resp: 92419
Ion Ratio Lower Upper
45 100
58 369.7 1.9 2.9#





#20

Methylene Chloride

Concen: 24.166 ppbv

RT: 3.922 min Scan# 41

Delta R.T. -0.010 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

Instrument :

MSVOA_L

ClientSampleId :

B-CS

Tgt Ion: 84 Resp: 856200

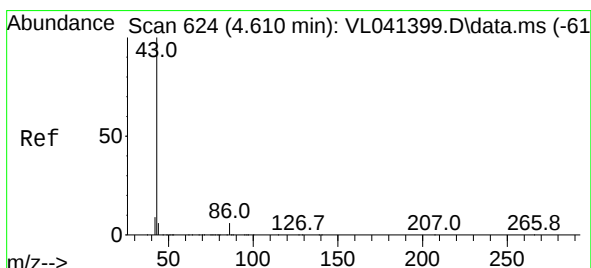
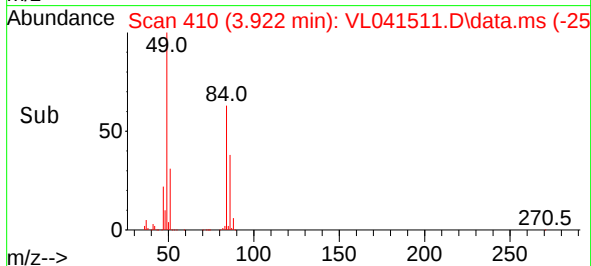
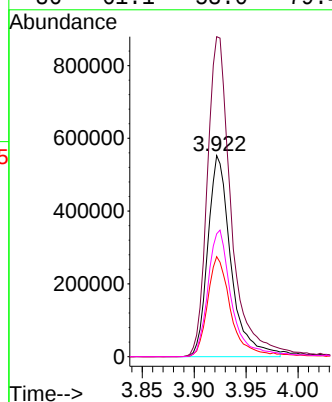
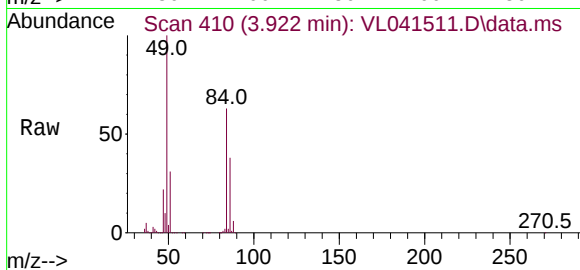
Ion Ratio Lower Upper

84 100

49 159.1 126.6 190.0

51 49.7 38.6 58.0

86 61.1 53.0 79.4



#23

Vinyl Acetate

Concen: 0.540 ppbv

RT: 4.603 min Scan# 622

Delta R.T. -0.023 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

Tgt Ion: 43 Resp: 39152

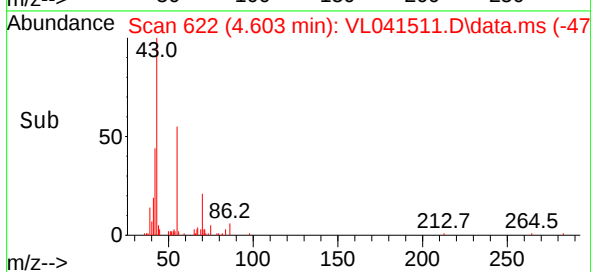
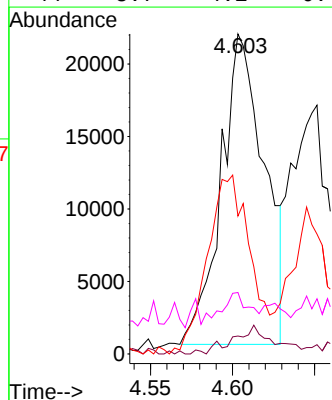
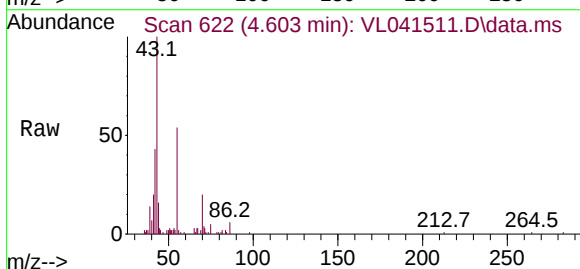
Ion Ratio Lower Upper

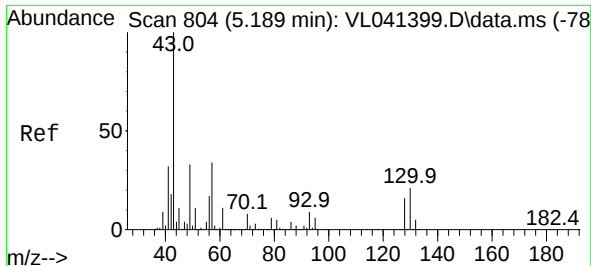
43 100

86 4.8 4.6 6.8

42 43.2 7.9 11.9#

44 8.7 4.2 6.4#





#25

Ethyl Acetate

Concen: 2.354 ppbv

RT: 5.205 min Scan# 809

Delta R.T. 0.003 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

Instrument :

MSVOA_L

ClientSampleId :

B-CS

Tgt Ion: 43 Resp: 444305

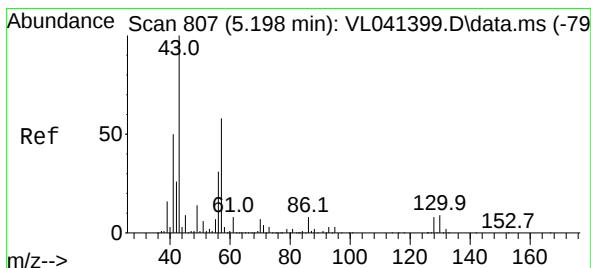
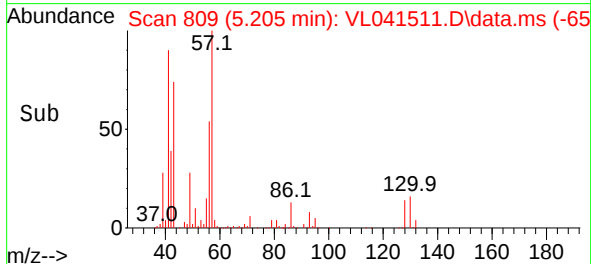
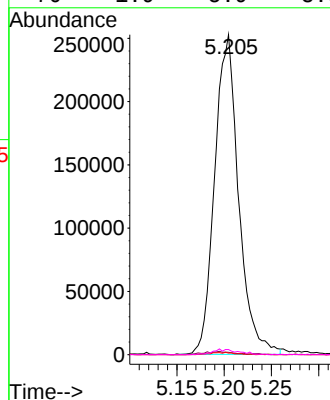
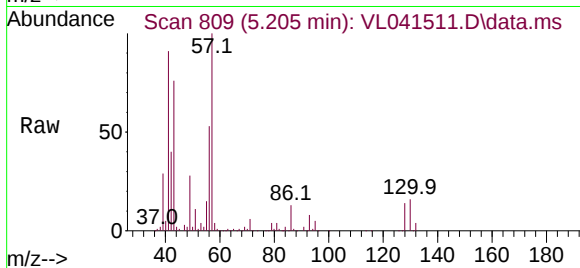
Ion Ratio Lower Upper

43 100

45 1.3 8.5 12.7#

61 0.8 8.0 12.0#

70 1.9 5.9 8.9#



#26

Hexane

Concen: 7.649 ppbv

RT: 5.201 min Scan# 808

Delta R.T. -0.010 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

Tgt Ion: 57 Resp: 598930

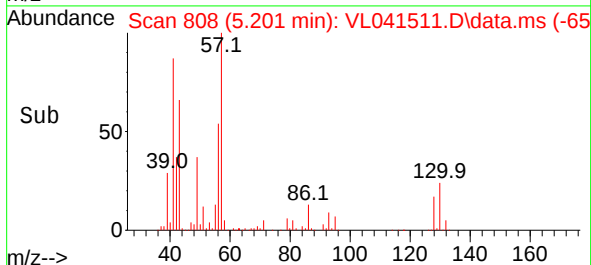
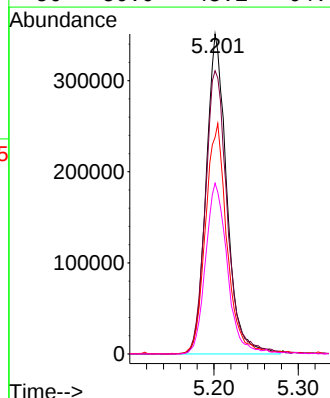
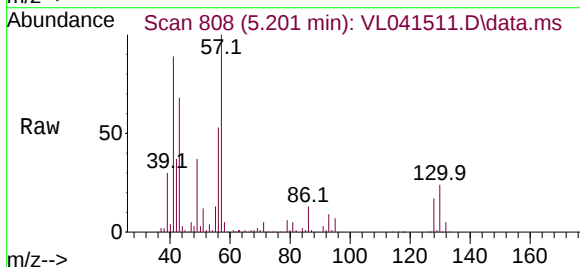
Ion Ratio Lower Upper

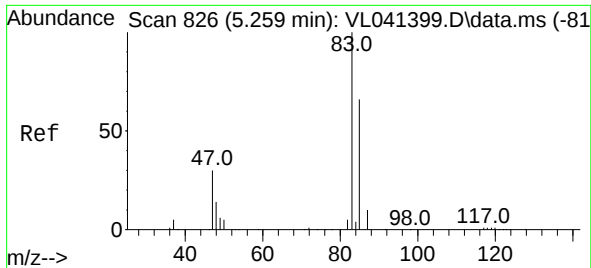
57 100

41 95.2 74.0 111.0

43 75.1 193.6 290.4#

56 56.9 43.1 64.7





#29

Chloroform

Concen: 0.032 ppbv

RT: 5.266 min Scan# 81

Delta R.T. -0.006 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

Instrument :

MSVOA_L

ClientSampleId :

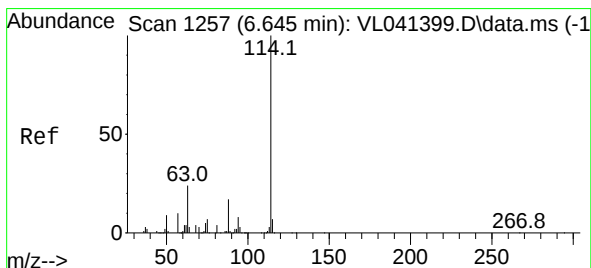
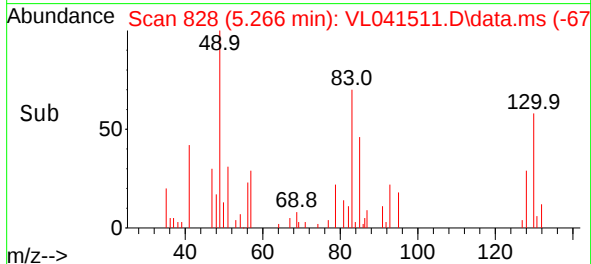
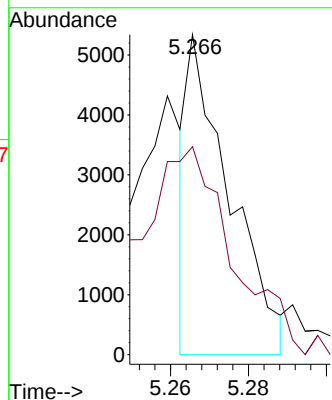
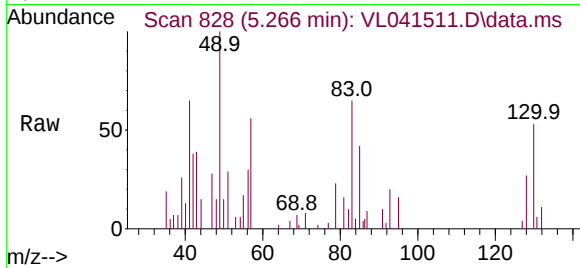
B-CS

Tgt Ion: 83 Resp: 4042

Ion Ratio Lower Upper

83 100

85 54.1 53.1 79.7



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 1256

Delta R.T. -0.006 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

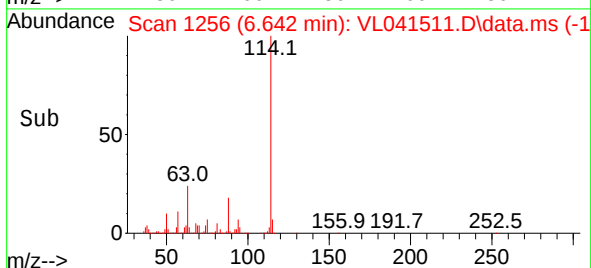
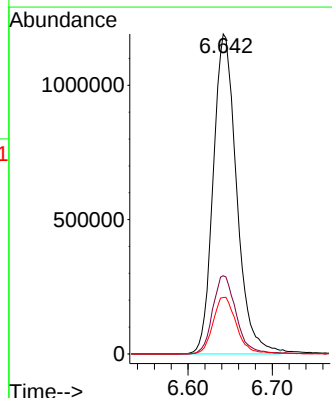
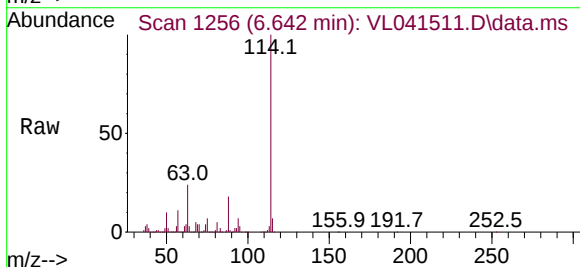
Tgt Ion: 114 Resp: 2297076

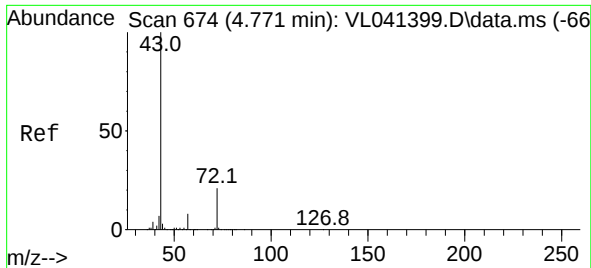
Ion Ratio Lower Upper

114 100

63 24.7 20.3 30.5

88 17.9 14.3 21.5

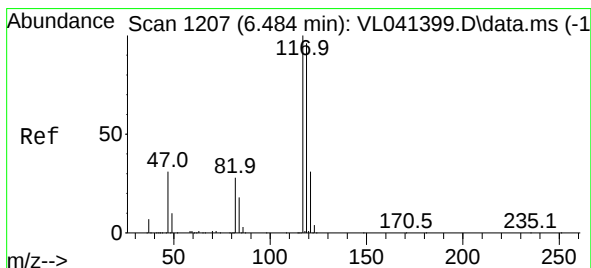
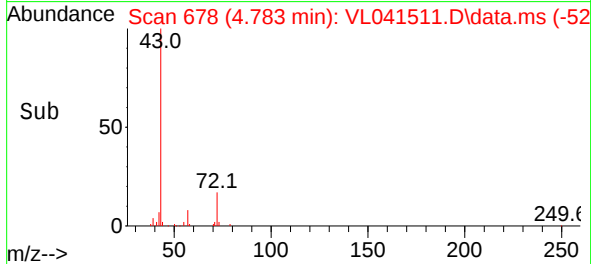
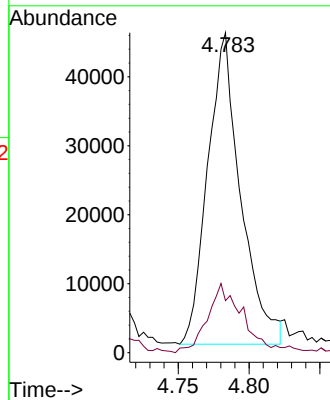
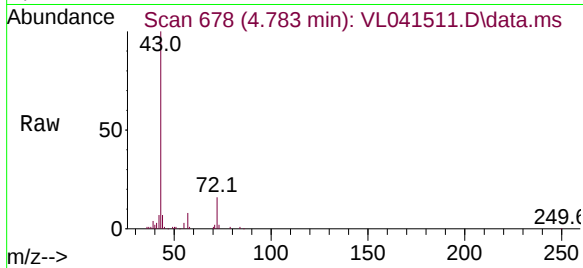




#34
2-Butanone
Concen: 0.657 ppbv
RT: 4.783 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL041511.D
Acq: 8 Aug 2024 13:45

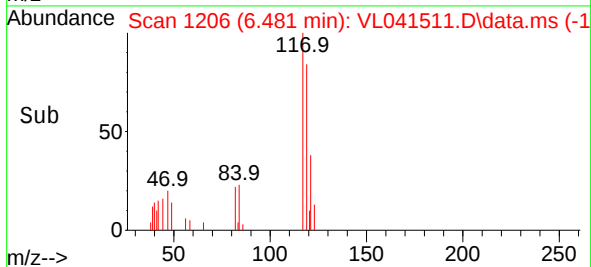
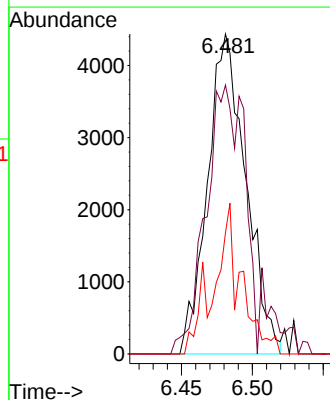
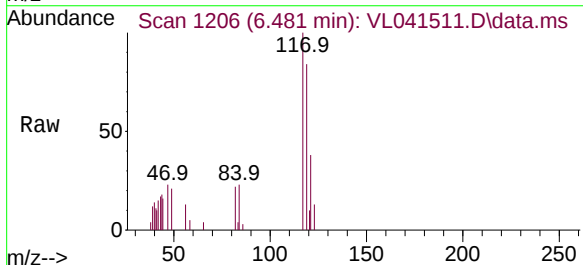
Instrument :
MSVOA_L
ClientSampleId :
B-CS

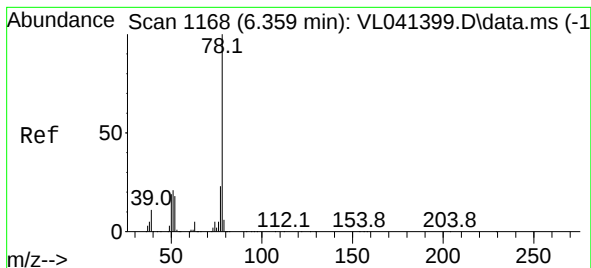
Tgt Ion: 43 Resp: 72951
Ion Ratio Lower Upper
43 100
72 24.4 17.3 25.9



#35
Carbon Tetrachloride
Concen: 0.066 ppbv
RT: 6.481 min Scan# 1206
Delta R.T. -0.010 min
Lab File: VL041511.D
Acq: 8 Aug 2024 13:45

Tgt Ion: 117 Resp: 8350
Ion Ratio Lower Upper
117 100
119 78.9 76.6 115.0
121 37.9 25.1 37.7#





#36

Benzene

Concen: 0.102 ppbv

RT: 6.362 min Scan# 1169

Delta R.T. -0.006 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

Instrument :

MSVOA_L

ClientSampleId :

B-CS

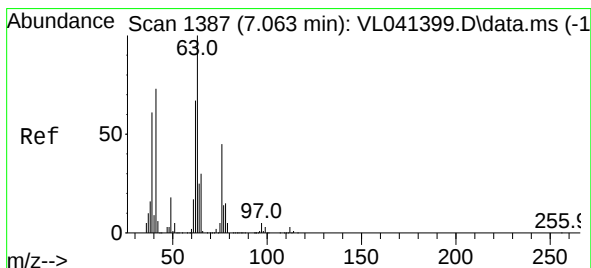
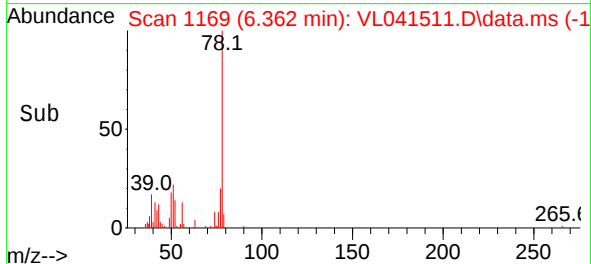
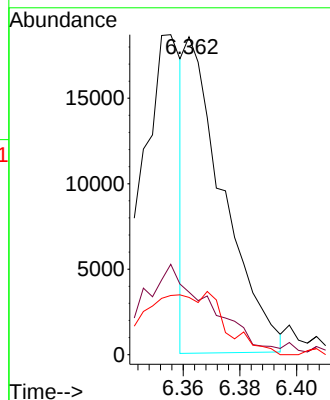
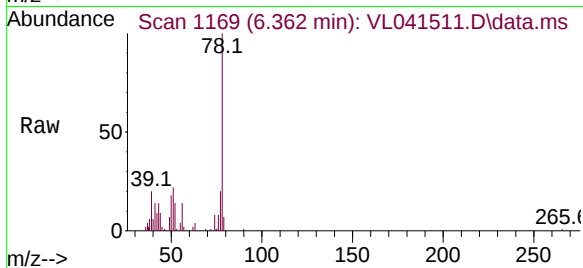
Tgt Ion: 78 Resp: 17184

Ion Ratio Lower Upper

78 100

77 18.9 18.1 27.1

50 19.3 15.5 23.3



#39

1,2-Dichloropropane

Concen: 8.691 ppbv

RT: 6.642 min Scan# 1256

Delta R.T. -0.428 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

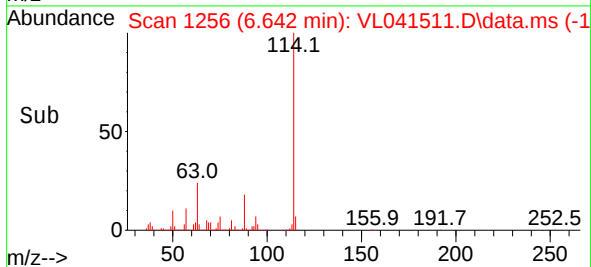
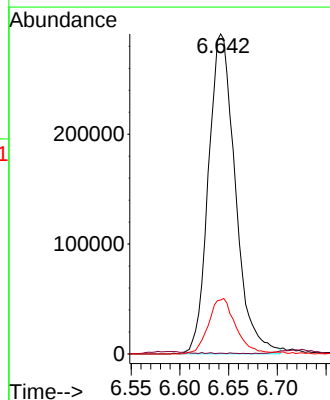
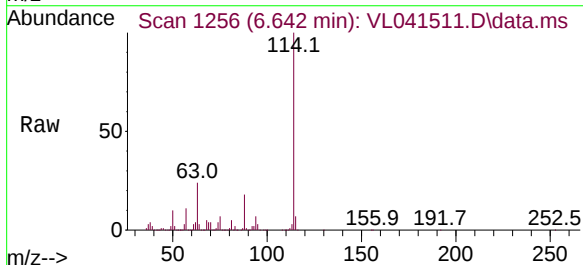
Tgt Ion: 63 Resp: 558470

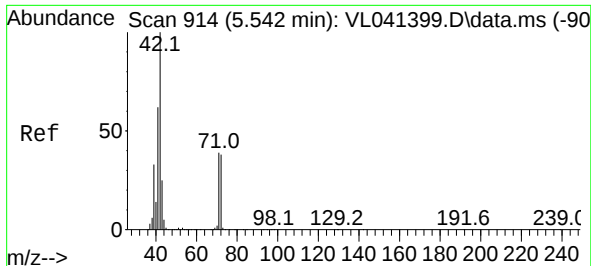
Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 16.8 53.9 80.9#





#41

Tetrahydrofuran

Concen: 3.869 ppbv

RT: 5.205 min Scan# 80

Delta R.T. -0.347 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

Instrument :

MSVOA_L

ClientSampleId :

B-CS

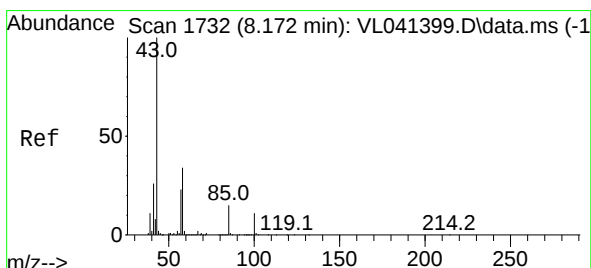
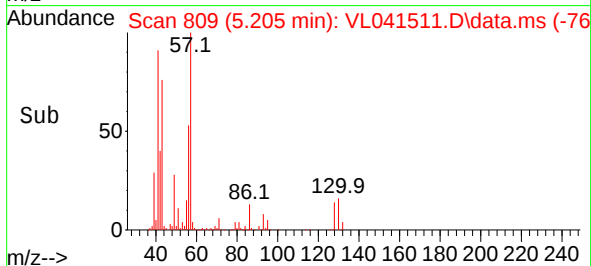
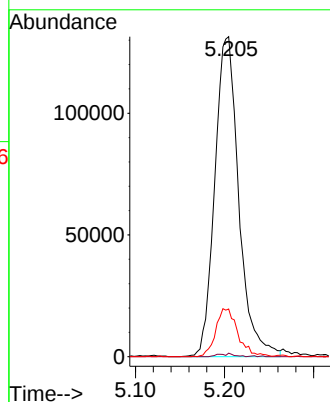
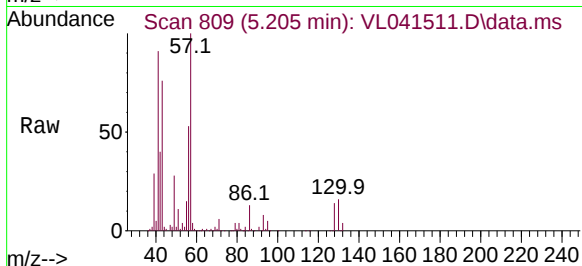
Tgt Ion: 42 Resp: 245888

Ion Ratio Lower Upper

42 100

72 0.7 31.2 46.8#

71 14.1 30.5 45.7#



#50

4-Methyl-2-Pentanone

Concen: 0.172 ppbv

RT: 8.182 min Scan# 1735

Delta R.T. 0.006 min

Lab File: VL041511.D

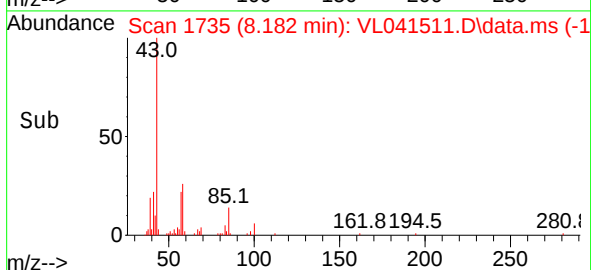
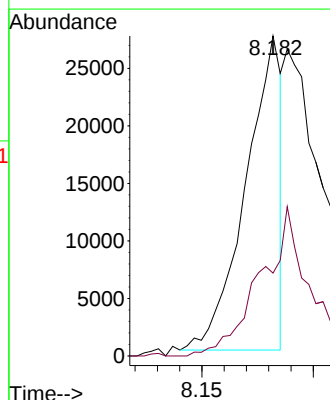
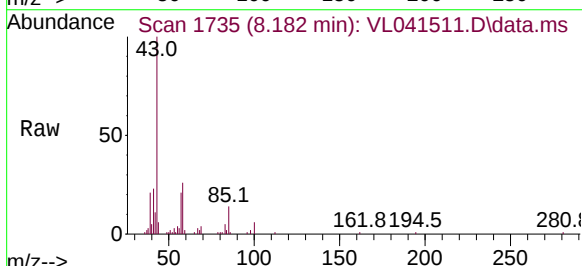
Acq: 8 Aug 2024 13:45

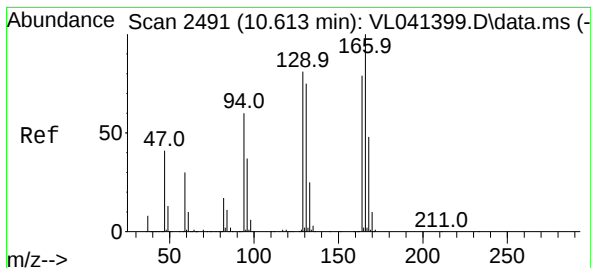
Tgt Ion: 43 Resp: 30162

Ion Ratio Lower Upper

43 100

58 0.0 27.9 41.9#





#52

Tetrachloroethene

Concen: 0.036 ppbv

RT: 10.600 min Scan# 2491

Delta R.T. -0.013 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

Instrument :

MSVOA_L

ClientSampleId :

B-CS

Tgt Ion:164 Resp: 2352

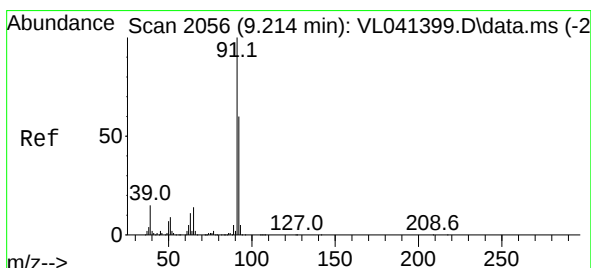
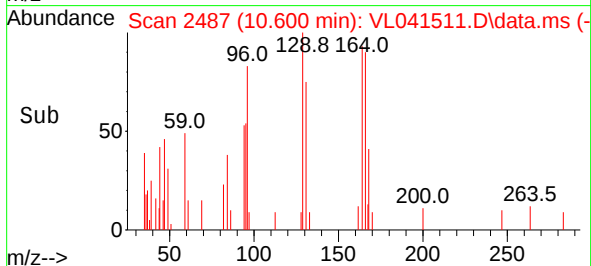
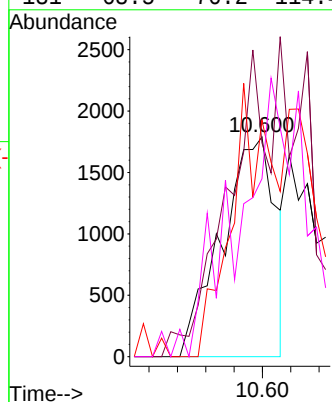
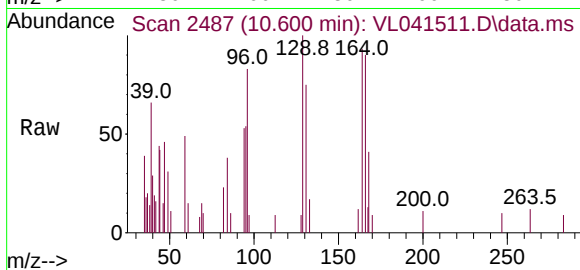
Ion Ratio Lower Upper

164 100

166 87.4 101.1 151.7#

129 107.7 81.7 122.5

131 68.5 76.2 114.4#



#53

Toluene

Concen: 1.684 ppbv

RT: 9.214 min Scan# 2056

Delta R.T. -0.003 min

Lab File: VL041511.D

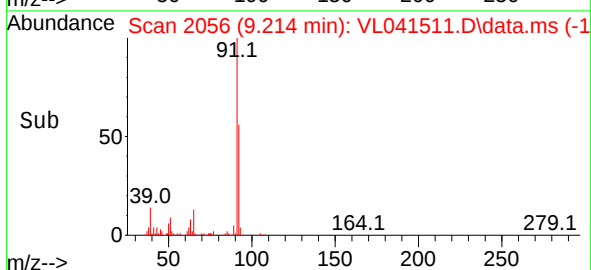
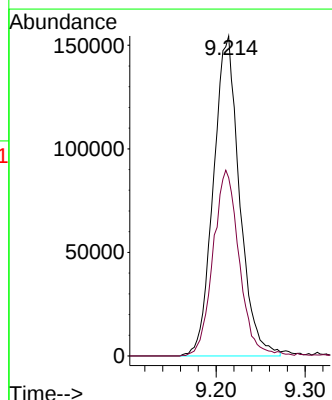
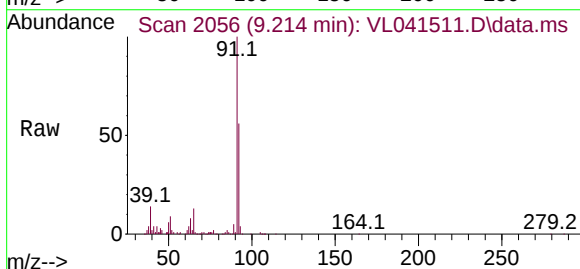
Acq: 8 Aug 2024 13:45

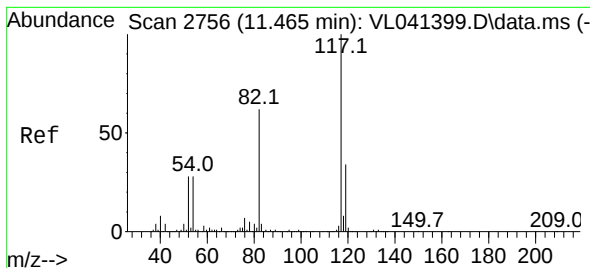
Tgt Ion: 91 Resp: 314888

Ion Ratio Lower Upper

91 100

92 58.5 48.7 73.1

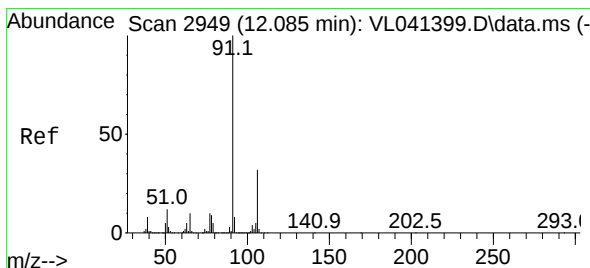
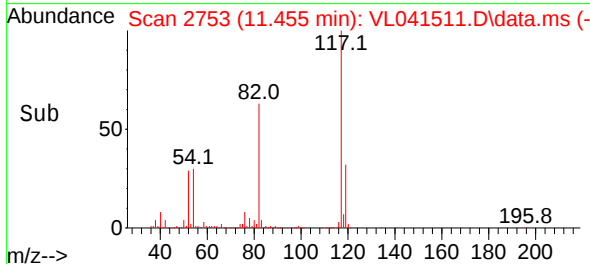
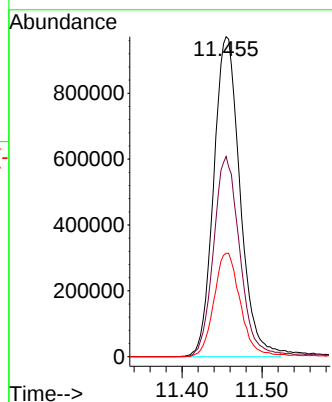
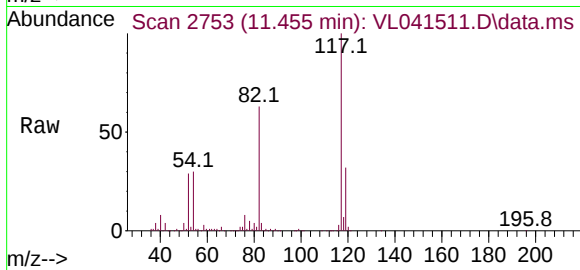




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL041511.D
Acq: 8 Aug 2024 13:45

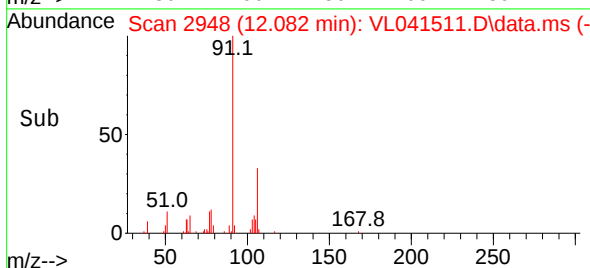
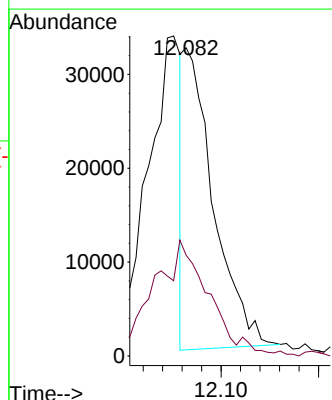
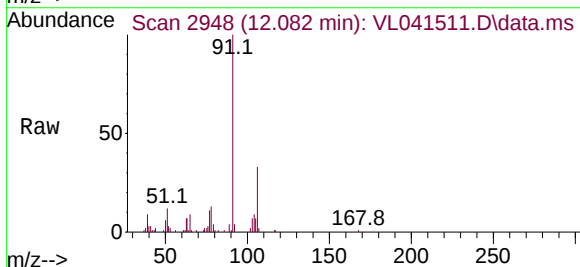
Instrument :
MSVOA_L
ClientSampleId :
B-CS

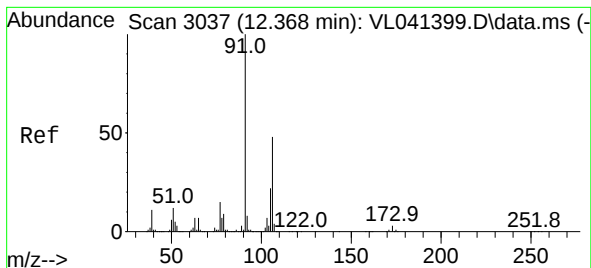
Tgt Ion:117 Resp: 2220803
Ion Ratio Lower Upper
117 100
82 64.1 51.0 76.6
119 33.3 45.2 67.8#



#58
Ethyl Benzene
Concen: 0.133 ppbv
RT: 12.082 min Scan# 2948
Delta R.T. -0.003 min
Lab File: VL041511.D
Acq: 8 Aug 2024 13:45

Tgt Ion: 91 Resp: 34011
Ion Ratio Lower Upper
91 100
106 32.4 25.8 38.8





#59

m/p-Xylene

Concen: 1.020 ppbv

RT: 12.333 min Scan# 3037

Delta R.T. -0.035 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

Instrument :

MSVOA_L

ClientSampleId :

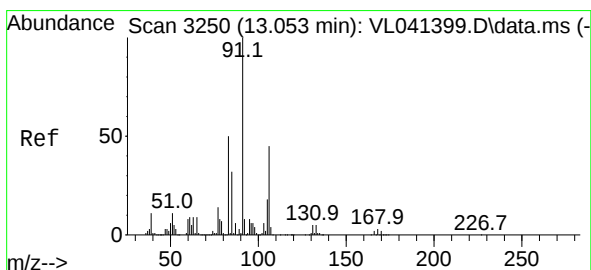
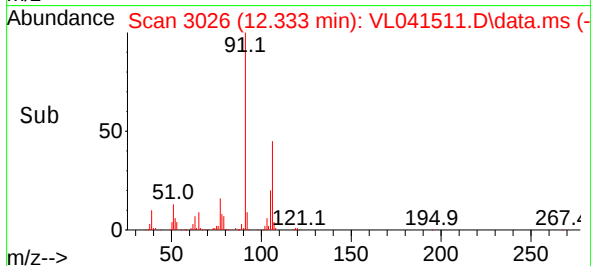
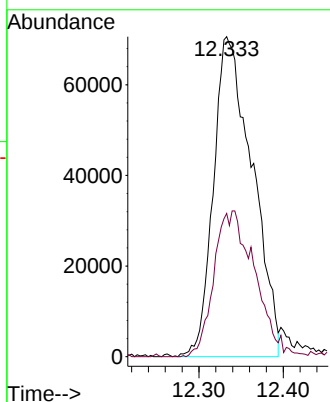
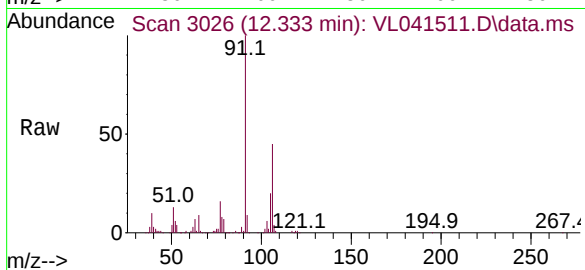
B-CS

Tgt Ion: 91 Resp: 225425

Ion Ratio Lower Upper

91 100

106 48.4 36.3 54.5



#60

o-Xylene

Concen: 0.343 ppbv

RT: 13.043 min Scan# 3247

Delta R.T. -0.010 min

Lab File: VL041511.D

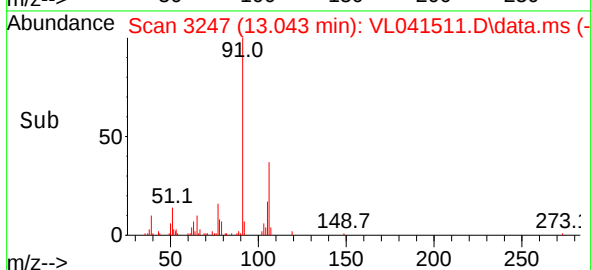
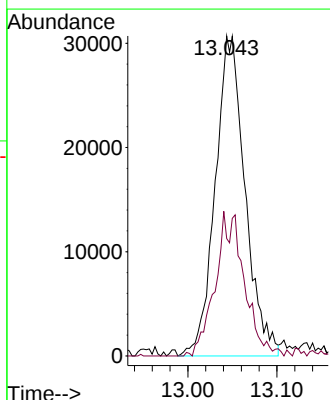
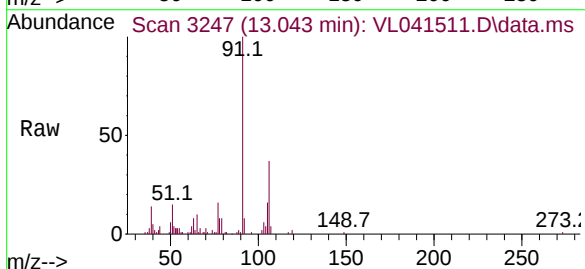
Acq: 8 Aug 2024 13:45

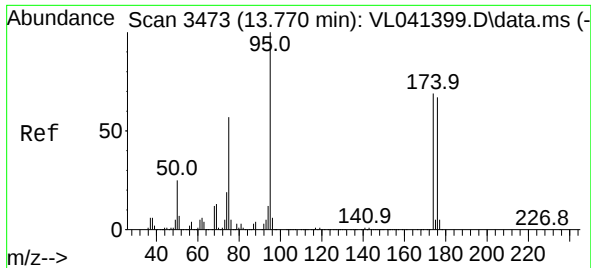
Tgt Ion: 91 Resp: 71625

Ion Ratio Lower Upper

91 100

106 43.9 23.1 69.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.430 ppbv

RT: 13.764 min Scan# 34

Delta R.T. -0.003 min

Lab File: VL041511.D

Acq: 8 Aug 2024 13:45

Instrument :

MSVOA_L

ClientSampleId :

B-CS

Tgt Ion: 95 Resp: 1611547

Ion Ratio Lower Upper

95 100

174 71.9 56.3 84.5

175 5.2 4.0 6.0

