

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092122\
 Data File : VL039654.D
 Acq On : 22 Sep 2022 3:35
 Operator : SY/AP
 Sample : N4669-07DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PF9DL

Quant Time: Sep 22 08:26:01 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Sep 19 14:26:28 2022
 Response via : Initial Calibration

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

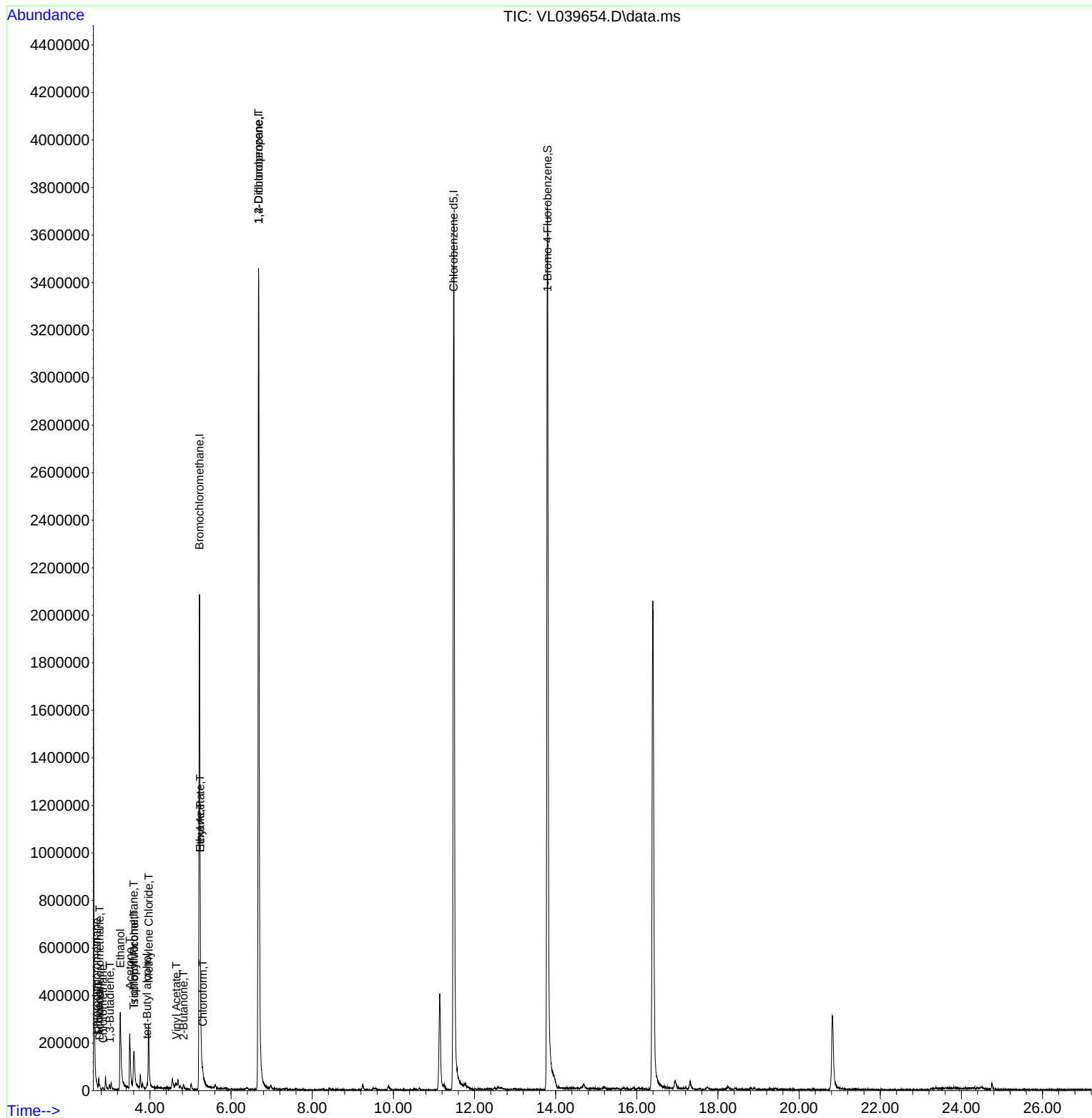
Internal Standards						
1) Bromochloromethane	5.221	49	1055426	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.677	114	2760202	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.487	117	2471344	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	1804857	9.783	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.761	85	6572	0.054	ppbv #	69
3) Chlorodifluoromethane	2.681	51	13707	0.109	ppbv #	57
4) Chloromethane	2.842	50	2388	0.032	ppbv #	55
9) Propene	2.739	41	9773	0.171	ppbv #	79
11) Trichlorofluoromethane	3.600	101	70725	0.467	ppbv	89
13) Ethanol	3.269	45	411840	94.490	ppbv	74
15) Acetone	3.504	43	244401	2.081	ppbv	94
16) 1,3-Butadiene	3.012	39	1811	0.030	ppbv #	10
17) tert-Butyl alcohol	3.932	59	8305	0.079	ppbv #	81
19) Isopropyl Alcohol	3.610	45	102785	1.717	ppbv #	90
20) Methylene Chloride	3.967	84	90141	1.660	ppbv	97
23) Vinyl Acetate	4.652	43	2911	0.055	ppbv #	1
25) Ethyl Acetate	5.240	43	38535	0.150	ppbv #	93
26) Hexane	5.240	57	23586	0.217	ppbv #	59
29) Chloroform	5.301	83	6716	0.043	ppbv	94
34) 2-Butanone	4.825	43	12928	0.095	ppbv #	61
39) 1,2-Dichloropropane	6.677	63	671926	8.246	ppbv #	26

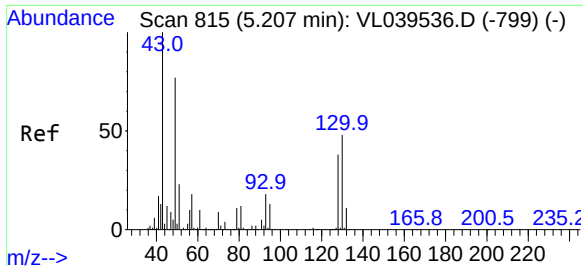
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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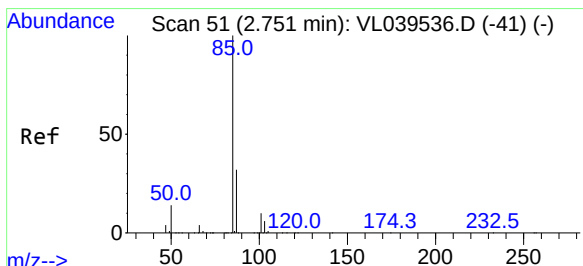
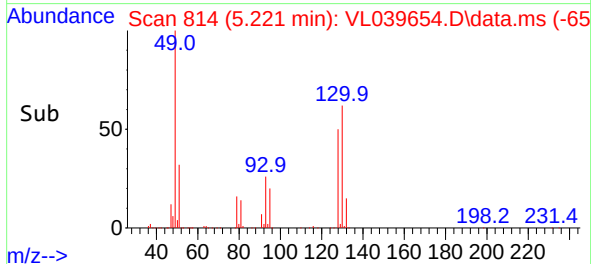
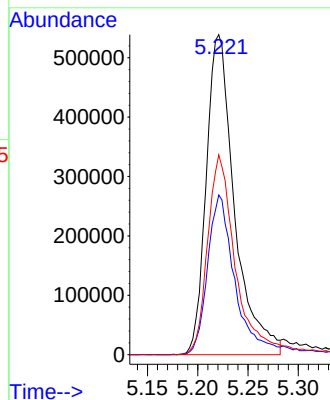
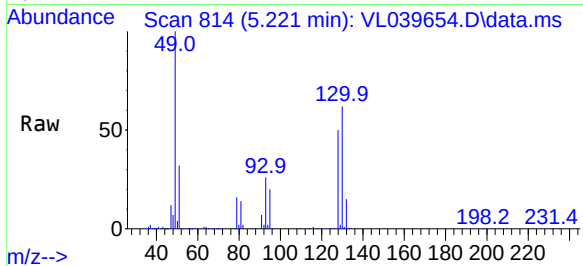




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.221 min Scan# 81
Delta R.T. 0.014 min
Lab File: VL039654.D
Acq: 22 Sep 2022 3:35

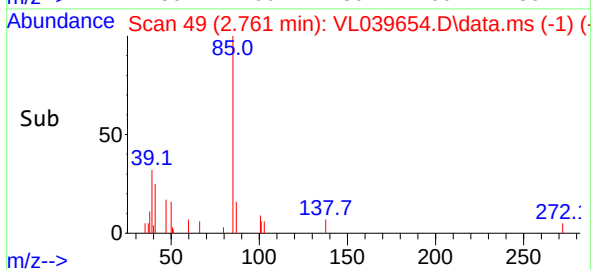
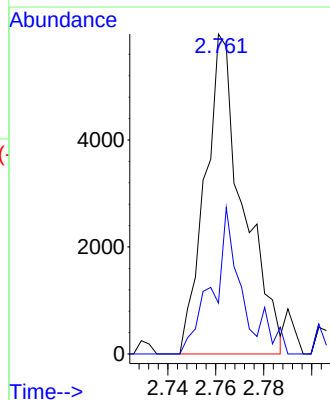
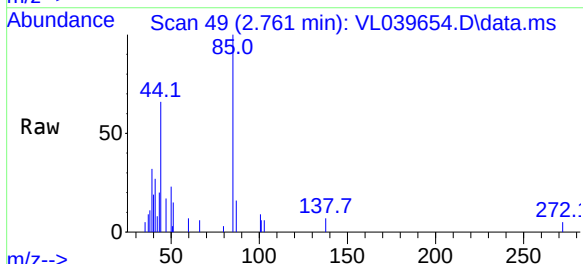
Instrument :
MSVOA_L
ClientSampleId :
C0PF9DL

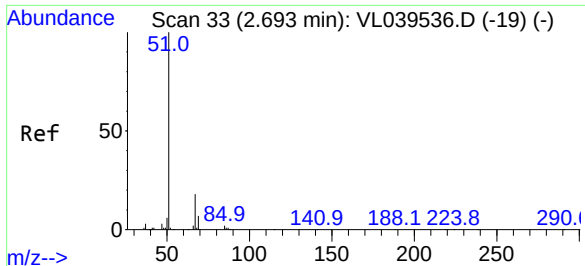
Tgt Ion: 49 Resp: 1055426
Ion Ratio Lower Upper
49 100
128 51.7 26.7 80.0
130 64.5 34.3 102.8



#2
Dichlorodifluoromethane
Concen: 0.054 ppbv
RT: 2.761 min Scan# 49
Delta R.T. 0.010 min
Lab File: VL039654.D
Acq: 22 Sep 2022 3:35

Tgt Ion: 85 Resp: 6572
Ion Ratio Lower Upper
85 100
87 15.9 26.7 40.1#

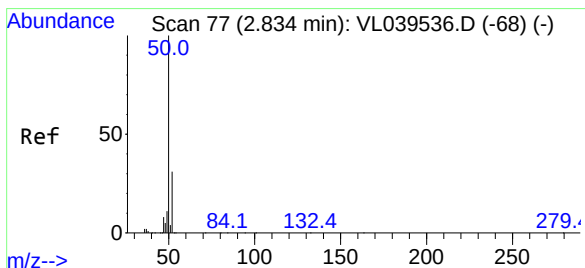
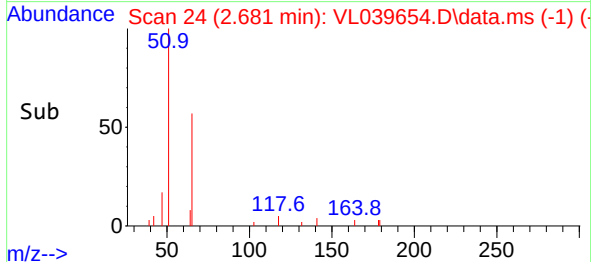
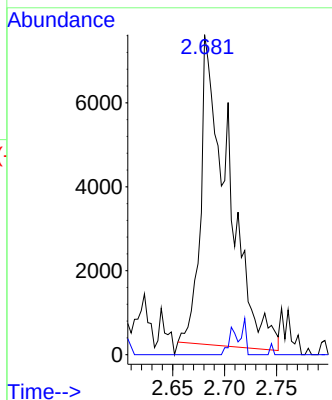
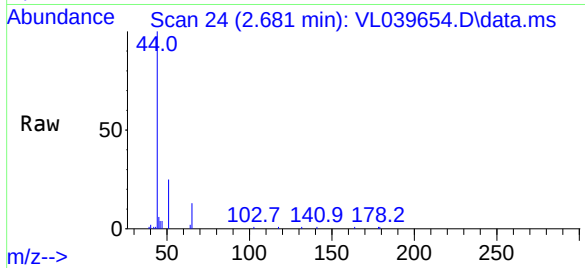




#3
Chlorodifluoromethane
Concen: 0.109 ppbv
RT: 2.681 min Scan# 24
Delta R.T. -0.012 min
Lab File: VL039654.D
Acq: 22 Sep 2022 3:35

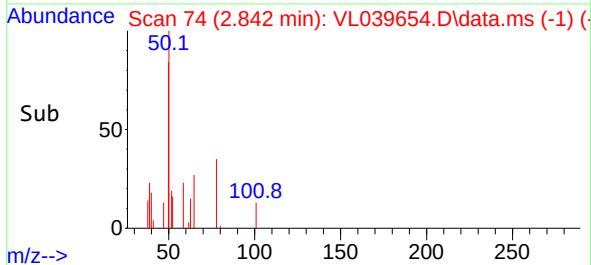
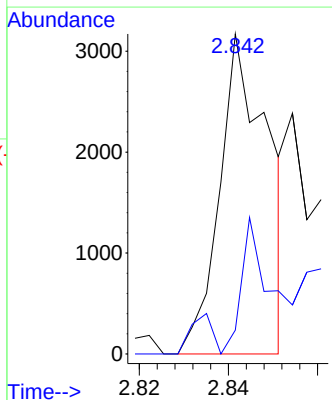
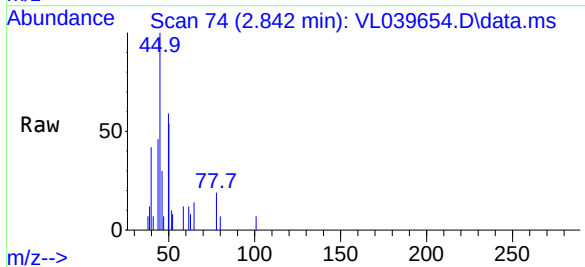
Instrument :
MSVOA_L
ClientSampleId :
C0PF9DL

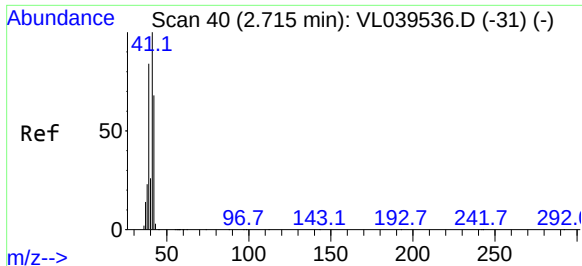
Tgt Ion: 51 Resp: 13707
Ion Ratio Lower Upper
51 100
67 0.0 15.7 23.5#



#4
Chloromethane
Concen: 0.032 ppbv
RT: 2.842 min Scan# 74
Delta R.T. 0.007 min
Lab File: VL039654.D
Acq: 22 Sep 2022 3:35

Tgt Ion: 50 Resp: 2388
Ion Ratio Lower Upper
50 100
52 7.5 26.5 39.7#

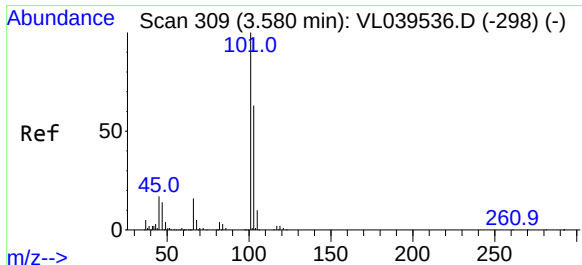
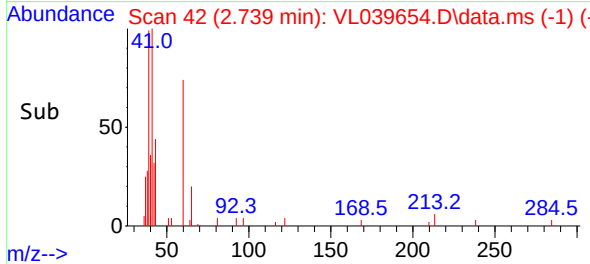
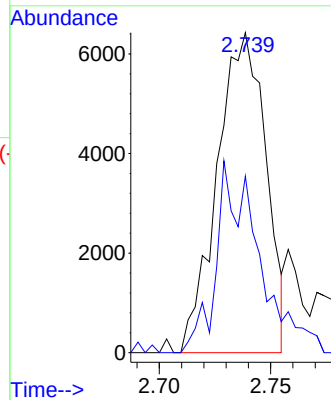
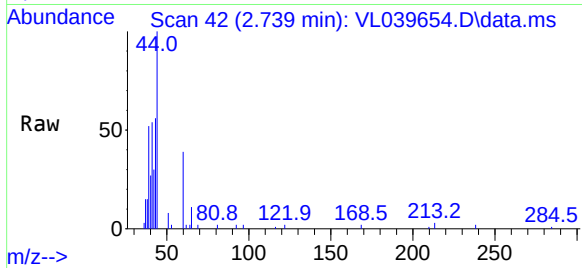




#9
Propene
Concen: 0.171 ppbv
RT: 2.739 min Scan# 41
Delta R.T. 0.023 min
Lab File: VL039654.D
Acq: 22 Sep 2022 3:35

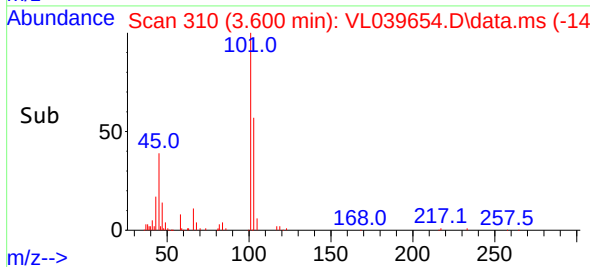
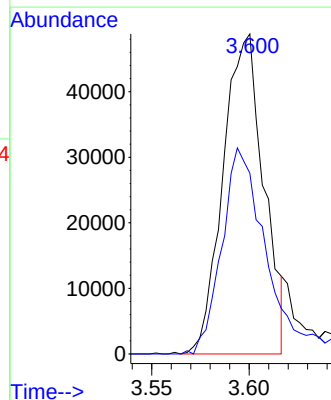
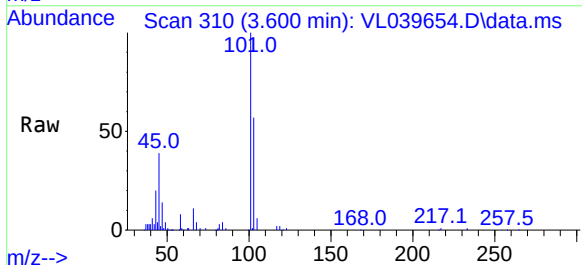
Instrument :
MSVOA_L
ClientSampleId :
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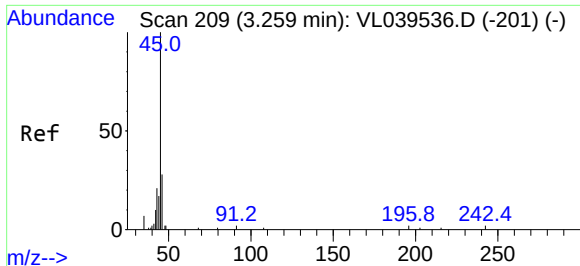
Tgt Ion: 41 Resp: 9773
Ion Ratio Lower Upper
41 100
42 52.1 55.2 82.8#



#11
Trichlorofluoromethane
Concen: 0.467 ppbv
RT: 3.600 min Scan# 310
Delta R.T. 0.020 min
Lab File: VL039654.D
Acq: 22 Sep 2022 3:35

Tgt Ion: 101 Resp: 70725
Ion Ratio Lower Upper
101 100
103 56.5 51.8 77.8

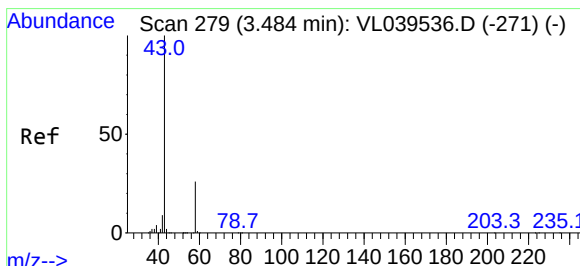
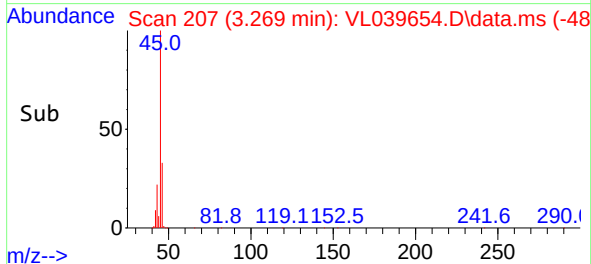
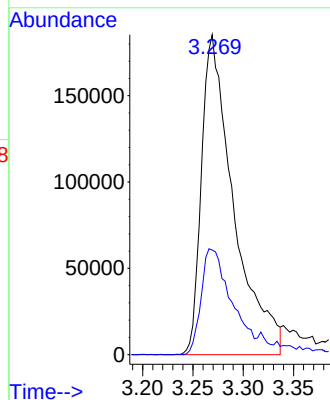
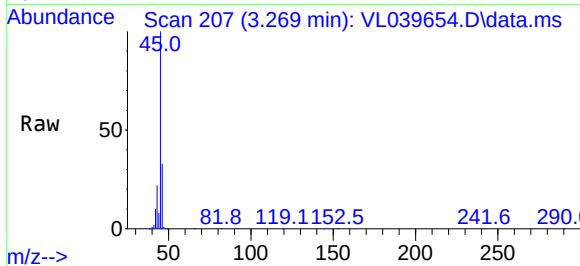




#13
Ethanol
Concen: 94.490 ppbv
RT: 3.269 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL039654.D
Acq: 22 Sep 2022 3:35

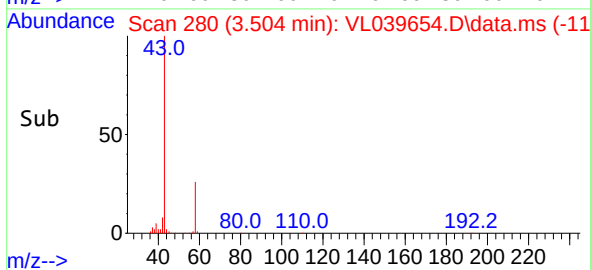
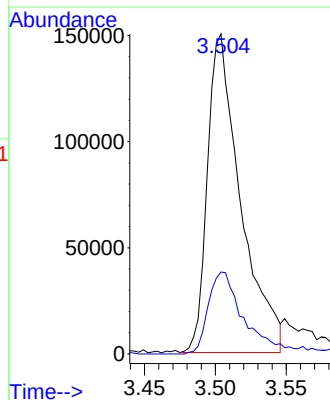
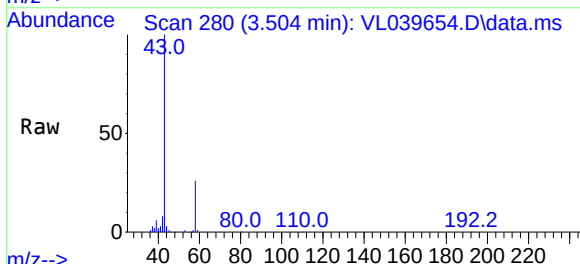
Instrument :
MSVOA_L
ClientSampleId :
C0PF9DL

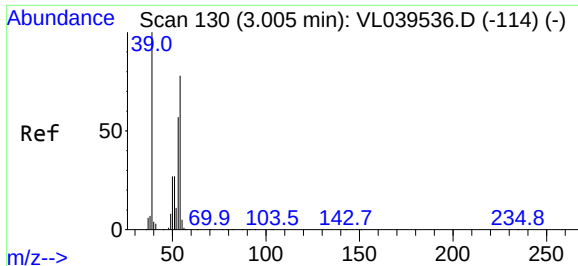
Tgt Ion: 45 Resp: 411840
Ion Ratio Lower Upper
45 100
46 37.6 22.8 91.2



#15
Acetone
Concen: 2.081 ppbv
RT: 3.504 min Scan# 280
Delta R.T. 0.020 min
Lab File: VL039654.D
Acq: 22 Sep 2022 3:35

Tgt Ion: 43 Resp: 244401
Ion Ratio Lower Upper
43 100
58 29.3 21.0 31.6





#16

1,3-Butadiene

Concen: 0.030 ppbv

RT: 3.012 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL039654.D

Acq: 22 Sep 2022 3:35

Instrument :

MSVOA_L

ClientSampleId :

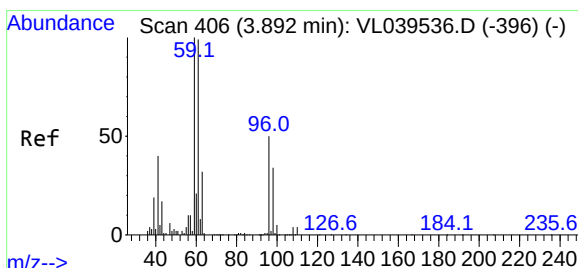
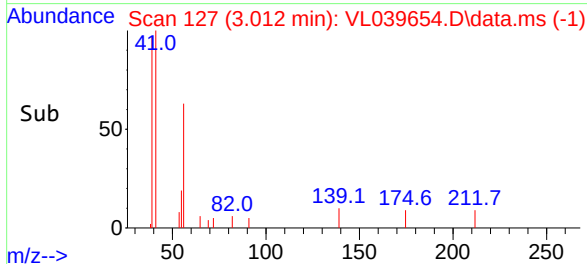
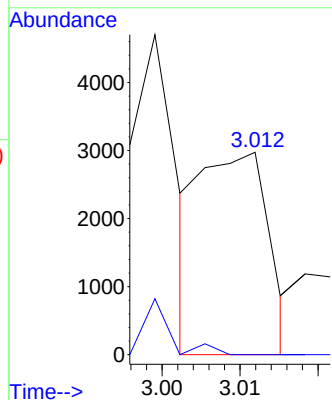
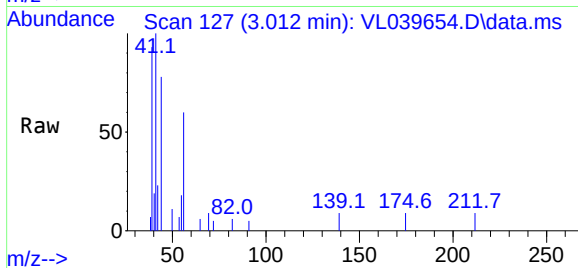
C0PF9DL

Tgt Ion: 39 Resp: 1811

Ion Ratio Lower Upper

39 100

54 0.0 63.7 95.5#



#17

tert-Butyl alcohol

Concen: 0.079 ppbv

RT: 3.932 min Scan# 413

Delta R.T. 0.039 min

Lab File: VL039654.D

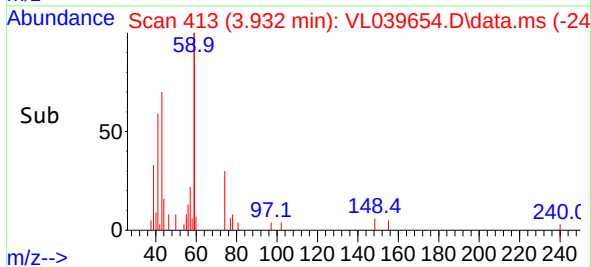
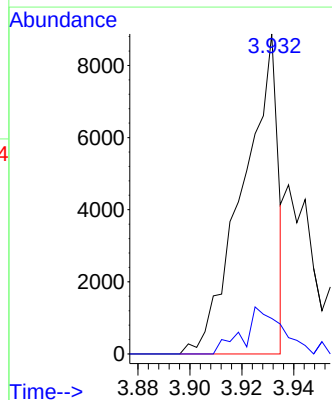
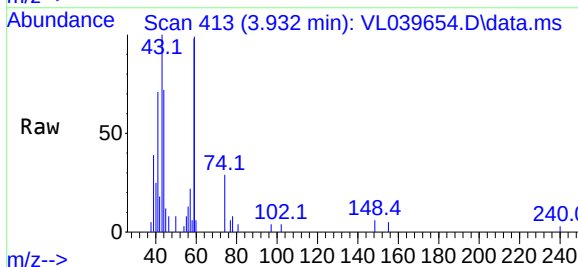
Acq: 22 Sep 2022 3:35

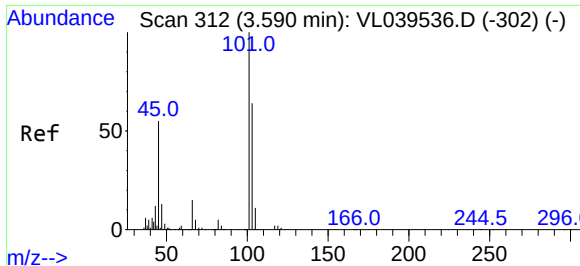
Tgt Ion: 59 Resp: 8305

Ion Ratio Lower Upper

59 100

57 18.2 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 1.717 ppbv

RT: 3.610 min Scan# 312

Delta R.T. 0.020 min

Lab File: VL039654.D

Acq: 22 Sep 2022 3:35

Instrument :

MSVOA_L

ClientSampleId :

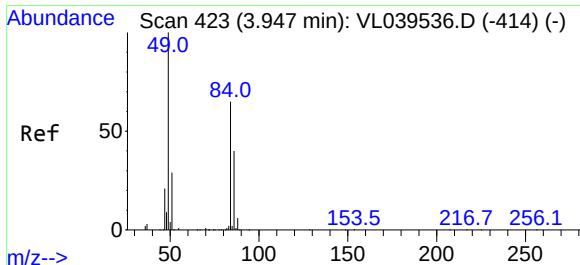
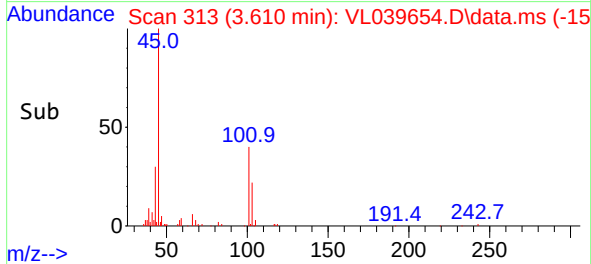
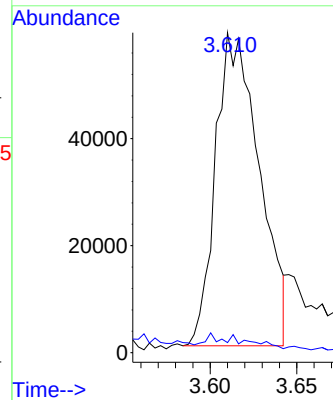
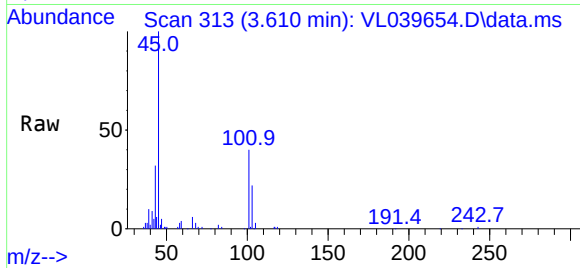
C0PF9DL

Tgt Ion: 45 Resp: 102785

Ion Ratio Lower Upper

45 100

58 7.4 3.2 4.8#



#20

Methylene Chloride

Concen: 1.660 ppbv

RT: 3.967 min Scan# 424

Delta R.T. 0.020 min

Lab File: VL039654.D

Acq: 22 Sep 2022 3:35

Tgt Ion: 84 Resp: 90141

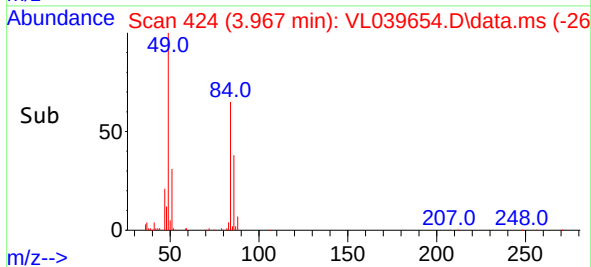
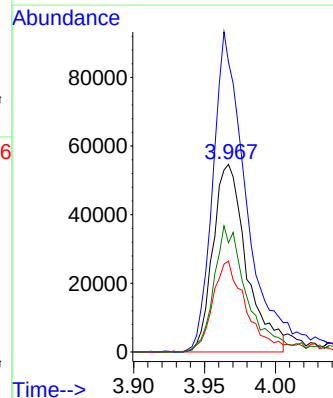
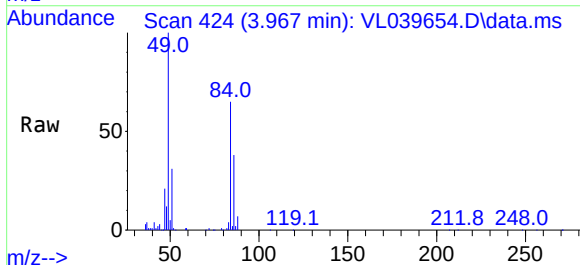
Ion Ratio Lower Upper

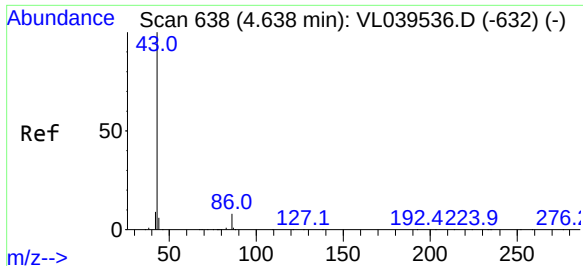
84 100

49 153.9 123.1 184.7

51 48.2 34.4 51.6

86 58.2 51.1 76.7





#23

Vinyl Acetate

Concen: 0.055 ppbv

RT: 4.652 min Scan# 61

Delta R.T. 0.014 min

Lab File: VL039654.D

Acq: 22 Sep 2022 3:35

Instrument :

MSVOA_L

ClientSampleId :

C0PF9DL

Tgt Ion: 43 Resp: 2911

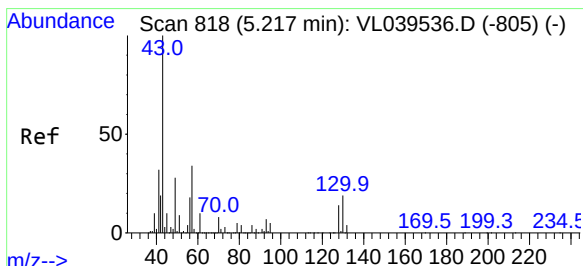
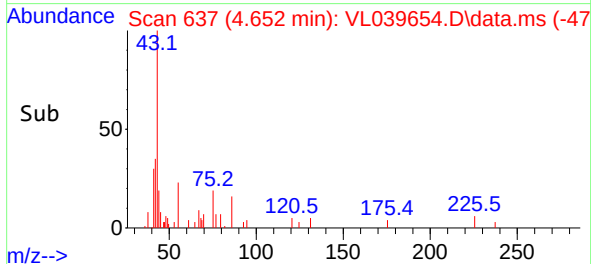
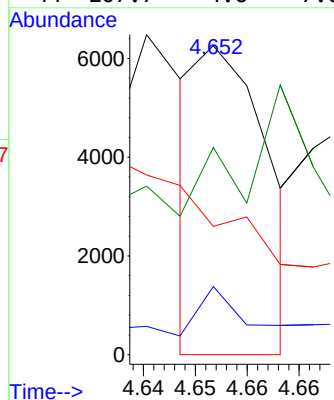
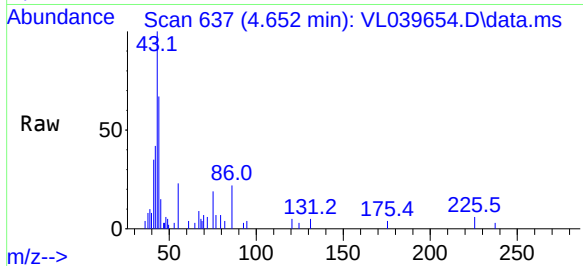
Ion Ratio Lower Upper

43 100

86 149.0 5.0 7.6#

42 114.9 7.7 11.5#

44 207.7 4.6 7.0#



#25

Ethyl Acetate

Concen: 0.150 ppbv

RT: 5.240 min Scan# 820

Delta R.T. 0.023 min

Lab File: VL039654.D

Acq: 22 Sep 2022 3:35

Tgt Ion: 43 Resp: 38535

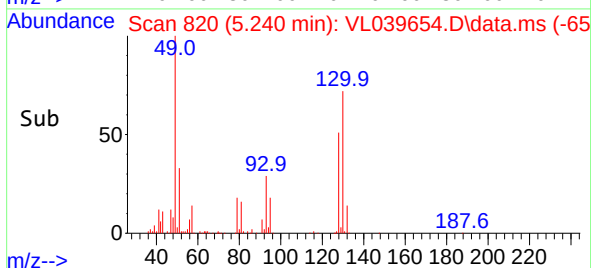
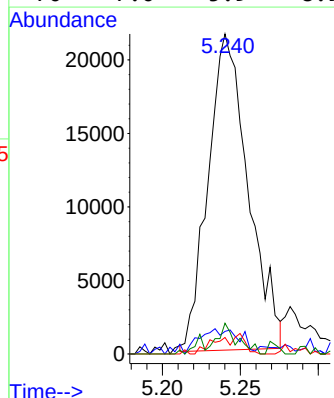
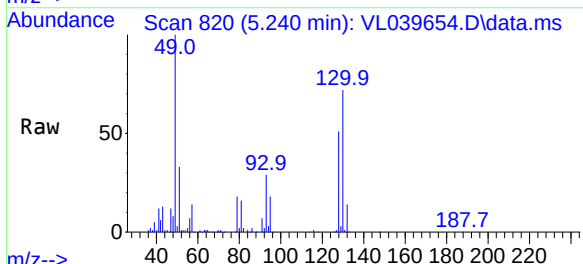
Ion Ratio Lower Upper

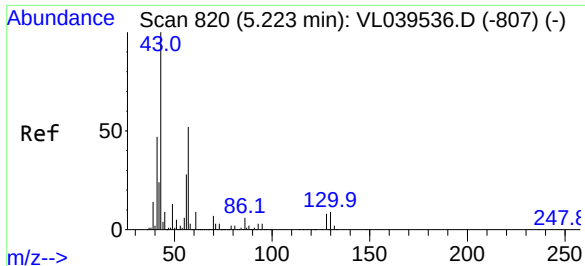
43 100

45 8.9 8.2 12.4

61 4.6 8.3 12.5#

70 7.0 5.9 8.9

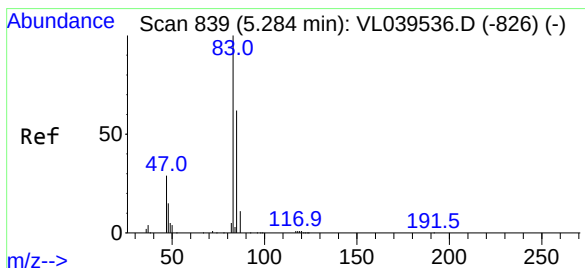
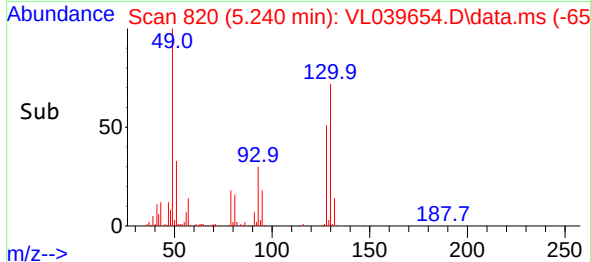
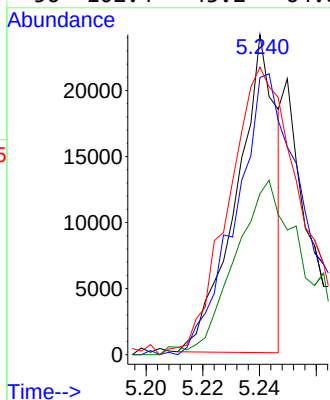
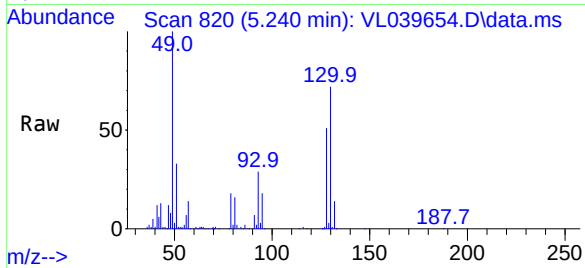




#26
Hexane
Concen: 0.217 ppbv
RT: 5.240 min Scan# 811
Delta R.T. 0.017 min
Lab File: VL039654.D
Acq: 22 Sep 2022 3:35

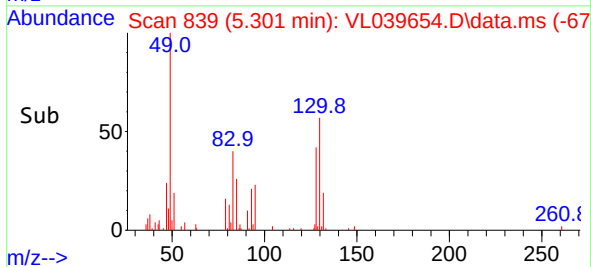
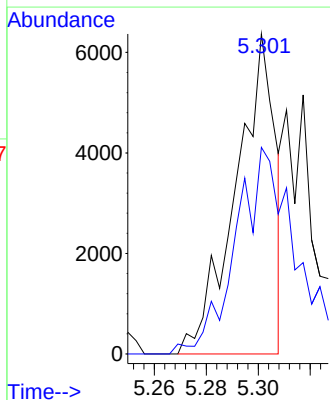
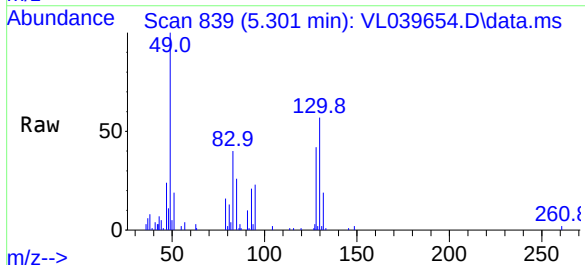
Instrument :
MSVOA_L
ClientSampleId :
C0PF9DL

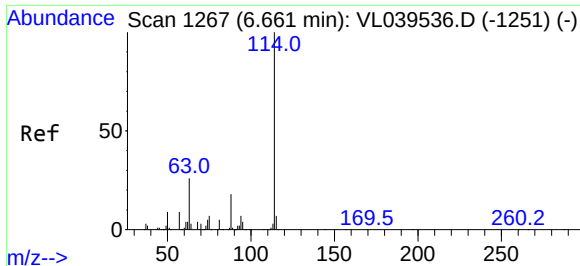
Tgt Ion: 57 Resp: 23586
Ion Ratio Lower Upper
57 100
41 161.7 76.9 115.3#
43 198.7 191.0 286.6
56 102.4 43.2 64.8#



#29
Chloroform
Concen: 0.043 ppbv
RT: 5.301 min Scan# 839
Delta R.T. 0.017 min
Lab File: VL039654.D
Acq: 22 Sep 2022 3:35

Tgt Ion: 83 Resp: 6716
Ion Ratio Lower Upper
83 100
85 61.4 52.8 79.2



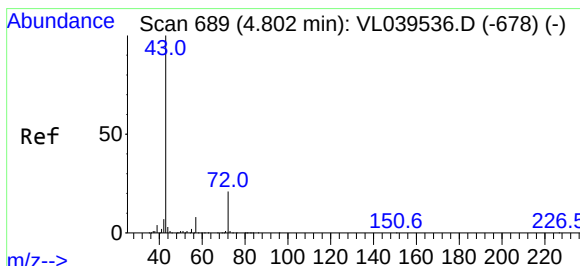
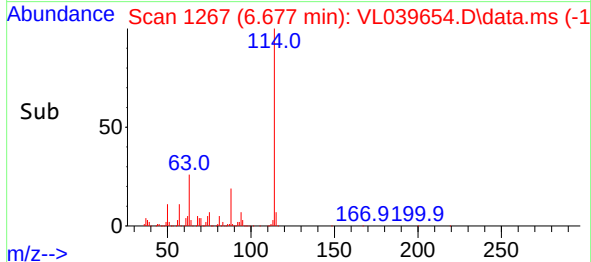
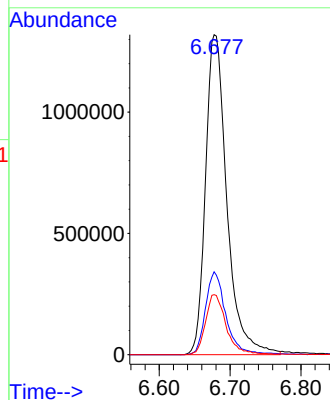
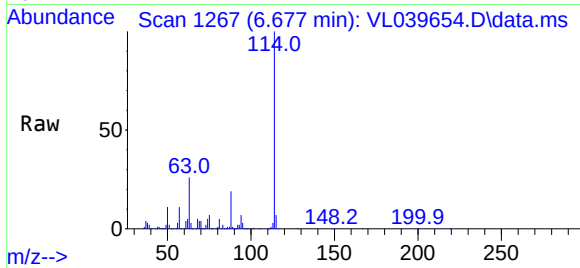


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.677 min Scan# 11
Delta R.T. 0.017 min
Lab File: VL039654.D
Acq: 22 Sep 2022 3:35

Instrument :
MSVOA_L
ClientSampleId :
COPF9DL

Tgt Ion:114 Resp: 2760202

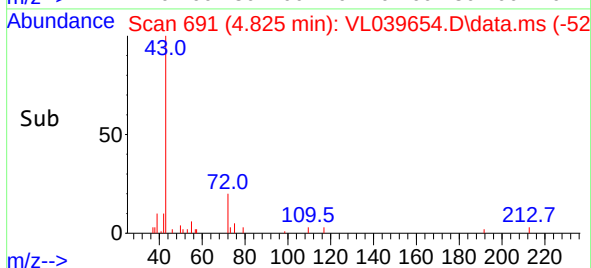
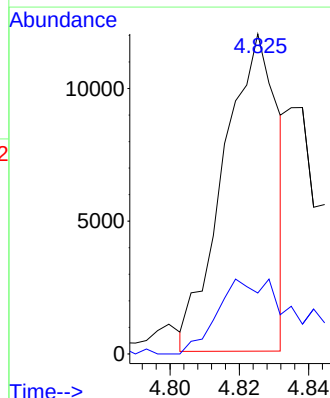
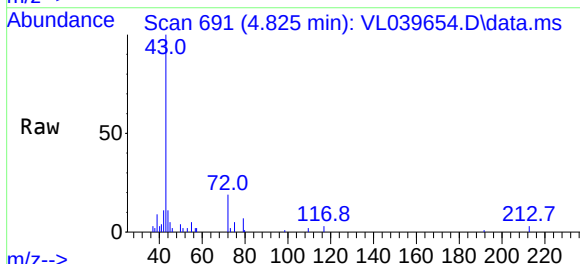
Ion	Ratio	Lower	Upper
114	100		
63	24.9	20.2	30.4
88	18.5	14.5	21.7

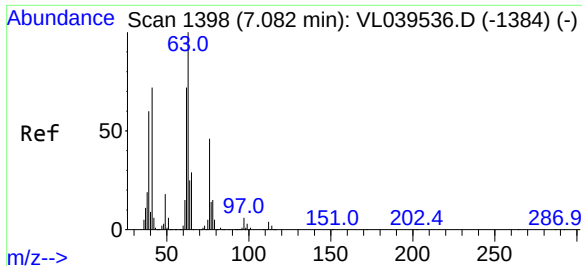


#34
2-Butanone
Concen: 0.095 ppbv
RT: 4.825 min Scan# 691
Delta R.T. 0.023 min
Lab File: VL039654.D
Acq: 22 Sep 2022 3:35

Tgt Ion: 43 Resp: 12928

Ion	Ratio	Lower	Upper
43	100		
72	41.3	17.9	26.9





#39

1,2-Dichloropropane

Concen: 8.246 ppbv

RT: 6.677 min Scan# 11

Delta R.T. -0.404 min

Lab File: VL039654.D

Acq: 22 Sep 2022 3:35

Instrument :

MSVOA_L

ClientSampleId :

C0PF9DL

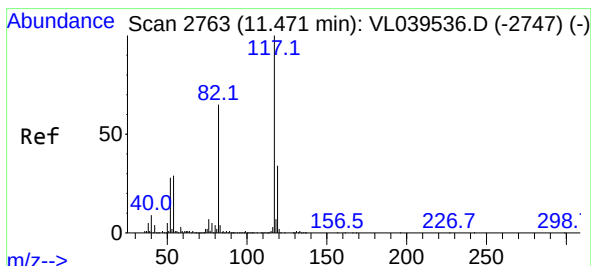
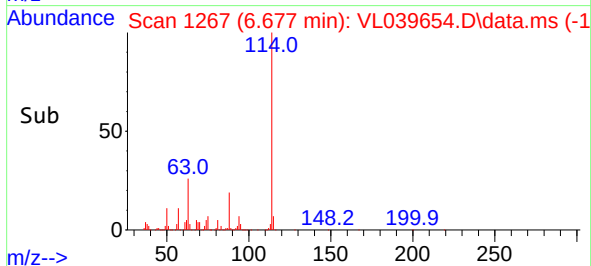
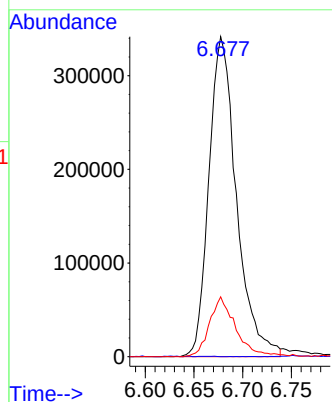
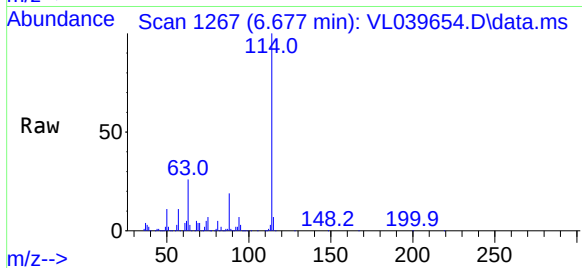
Tgt Ion: 63 Resp: 671926

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 18.7 51.4 77.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.487 min Scan# 2763

Delta R.T. 0.017 min

Lab File: VL039654.D

Acq: 22 Sep 2022 3:35

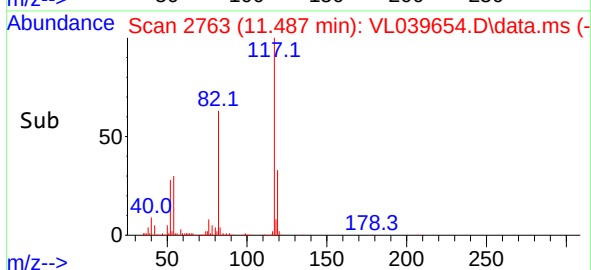
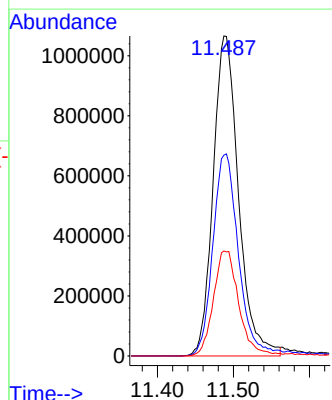
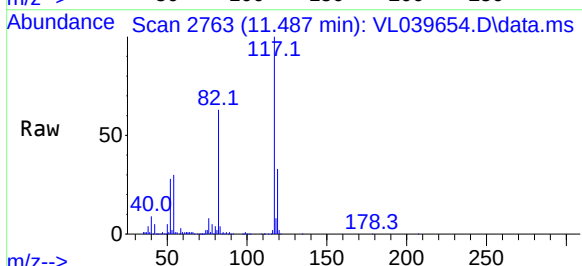
Tgt Ion: 117 Resp: 2471344

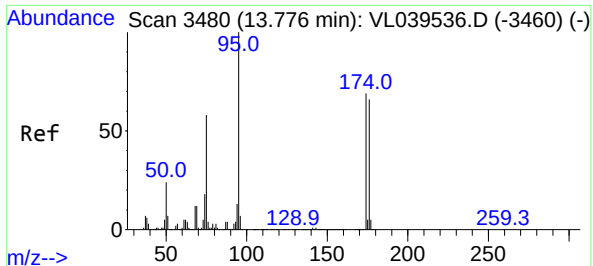
Ion Ratio Lower Upper

117 100

82 65.7 50.8 76.2

119 33.5 24.1 36.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.783 ppbv
 RT: 13.799 min Scan# 34
 Delta R.T. 0.023 min
 Lab File: VL039654.D
 Acq: 22 Sep 2022 3:35

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PF9DL

Tgt Ion: 95 Resp: 1804857
 Ion Ratio Lower Upper
 95 100
 174 74.6 55.9 83.9
 175 5.5 4.2 6.4

