

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092122\
 Data File : VL039652.D
 Acq On : 22 Sep 2022 2:16
 Operator : SY/AP
 Sample : N4669-06DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 22 08:25:00 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)

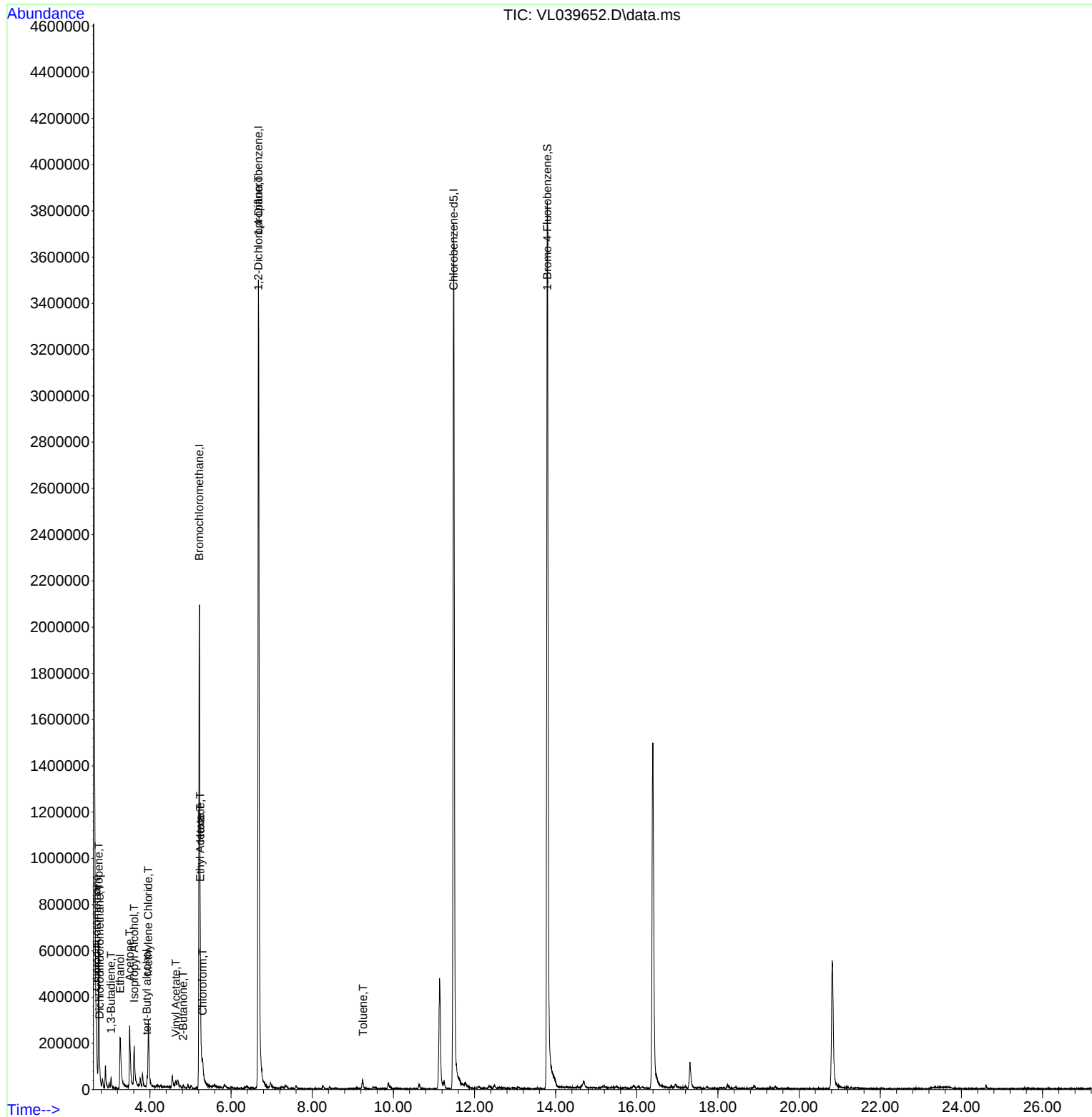
Internal Standards						
1) Bromochloromethane	5.218	49	1079734	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.674	114	2736384	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.487	117	2529944	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.796	95	1871916	9.912	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.761	85	6353	0.051	ppbv	90
3) Chlorodifluoromethane	2.681	51	25508	0.199	ppbv #	65
9) Propene	2.735	41	136033	2.325	ppbv #	64
13) Ethanol	3.266	45	264138	59.238	ppbv	77
15) Acetone	3.501	43	303650	2.527	ppbv	98
16) 1,3-Butadiene	3.041	39	5458	0.090	ppbv #	18
17) tert-Butyl alcohol	3.925	59	4542	0.042	ppbv	97
19) Isopropyl Alcohol	3.613	45	174567	2.850	ppbv	98
20) Methylene Chloride	3.960	84	94145	1.695	ppbv	96
23) Vinyl Acetate	4.642	43	4594	0.085	ppbv #	79
25) Ethyl Acetate	5.240	43	39730	0.152	ppbv #	93
26) Hexane	5.237	57	18491	0.166	ppbv #	1
29) Chloroform	5.298	83	40596	0.253	ppbv #	78
34) 2-Butanone	4.816	43	4537	0.034	ppbv #	1
39) 1,2-Dichloropropane	6.671	63	670540	8.300	ppbv #	24
53) Toluene	9.250	91	9006	0.039	ppbv #	21

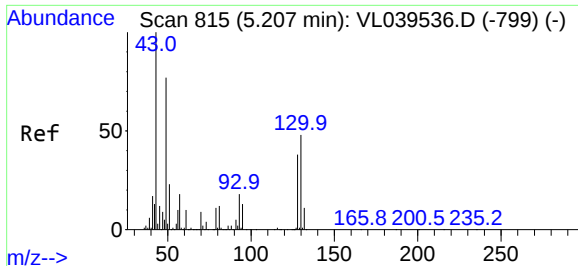
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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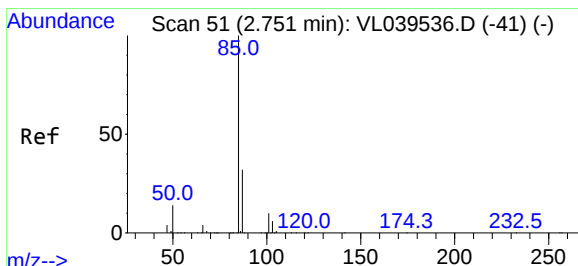
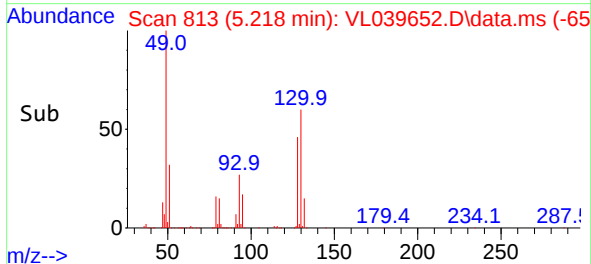
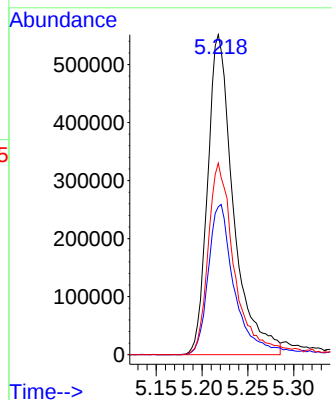
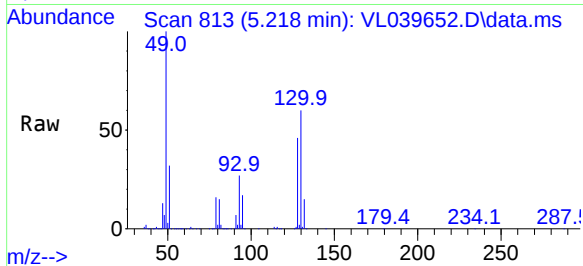




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.218 min Scan# 81
 Delta R.T. 0.011 min
 Lab File: VL039652.D
 Acq: 22 Sep 2022 2:16

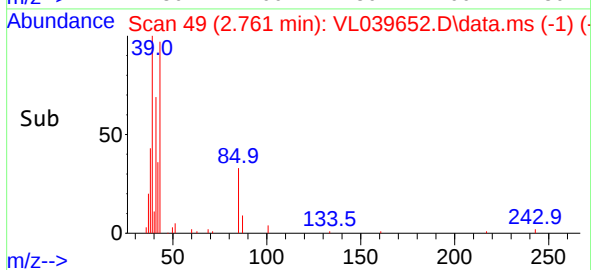
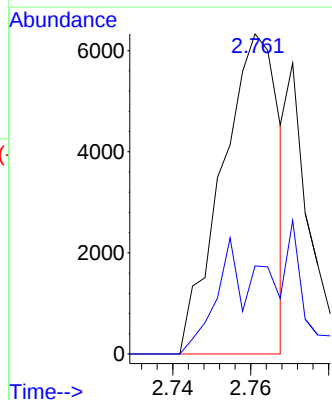
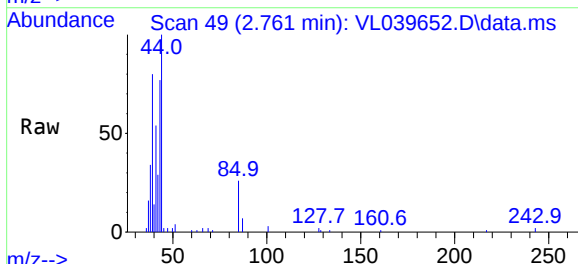
Instrument :
 MSVOA_L
 ClientSampleId :

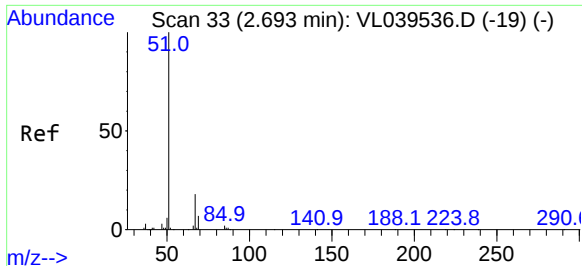
Tgt Ion: 49 Resp: 1079734
 Ion Ratio Lower Upper
 49 100
 128 48.8 26.7 80.0
 130 63.7 34.3 102.8



#2
 Dichlorodifluoromethane
 Concen: 0.051 ppbv
 RT: 2.761 min Scan# 49
 Delta R.T. 0.010 min
 Lab File: VL039652.D
 Acq: 22 Sep 2022 2:16

Tgt Ion: 85 Resp: 6353
 Ion Ratio Lower Upper
 85 100
 87 27.5 26.7 40.1





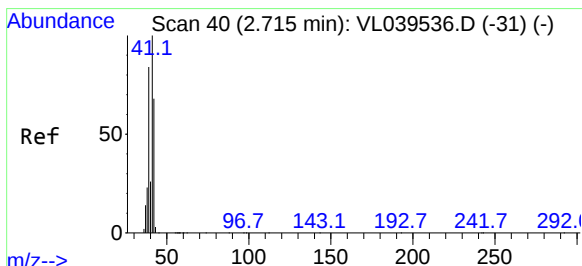
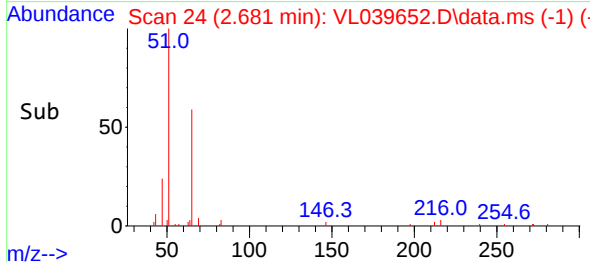
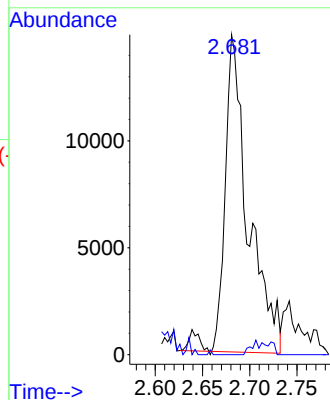
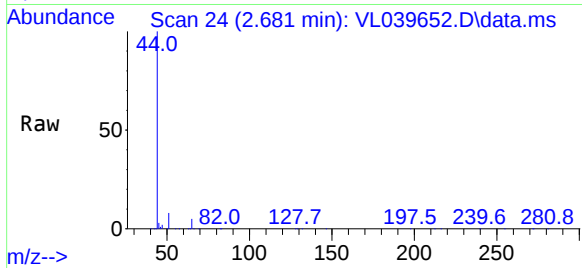
#3
Chlorodifluoromethane
Concen: 0.199 ppbv
RT: 2.681 min Scan# 24
Delta R.T. -0.012 min
Lab File: VL039652.D
Acq: 22 Sep 2022 2:16

Instrument :

MSVOA_L

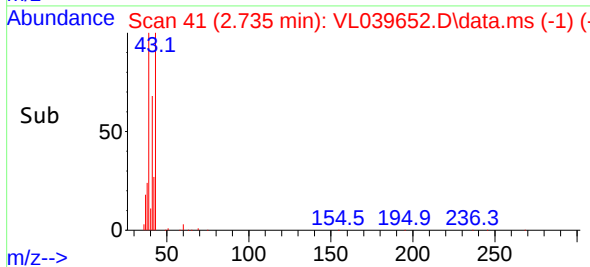
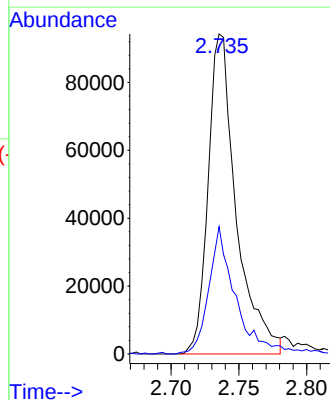
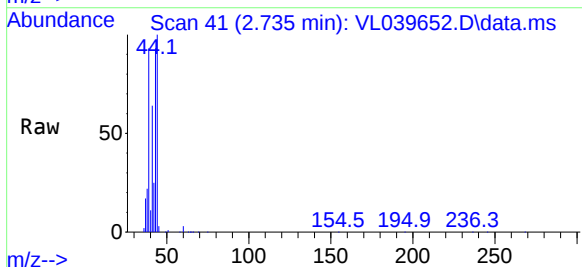
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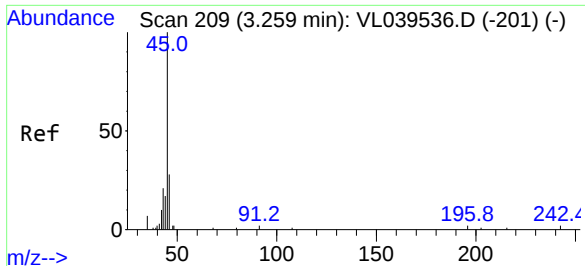
Tgt Ion: 51 Resp: 25508
Ion Ratio Lower Upper
51 100
67 3.4 15.7 23.5#



#9
Propene
Concen: 2.325 ppbv
RT: 2.735 min Scan# 41
Delta R.T. 0.020 min
Lab File: VL039652.D
Acq: 22 Sep 2022 2:16

Tgt Ion: 41 Resp: 136033
Ion Ratio Lower Upper
41 100
42 39.5 55.2 82.8#

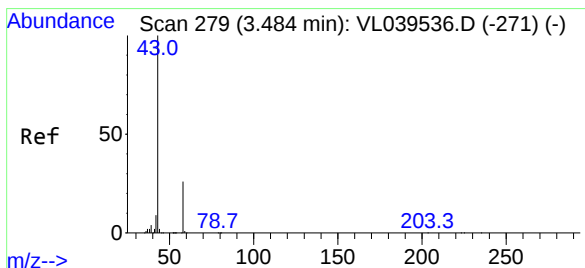
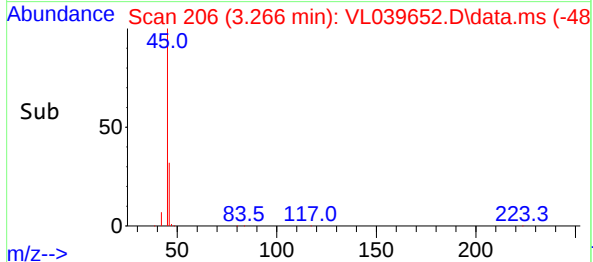
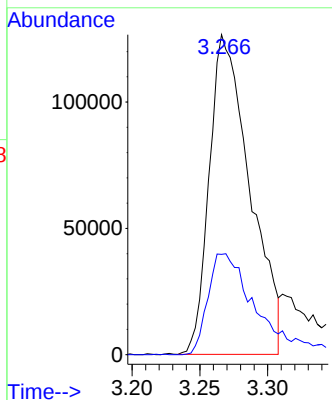
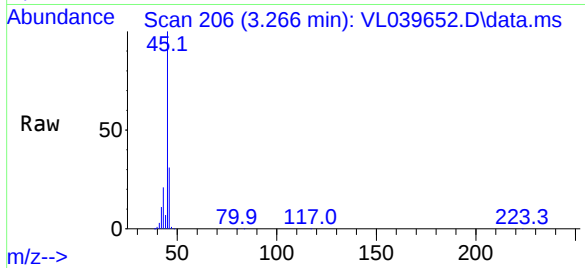




#13
Ethanol
Concen: 59.238 ppbv
RT: 3.266 min Scan# 206
Delta R.T. 0.007 min
Lab File: VL039652.D
Acq: 22 Sep 2022 2:16

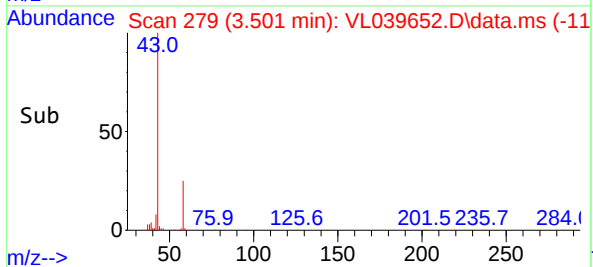
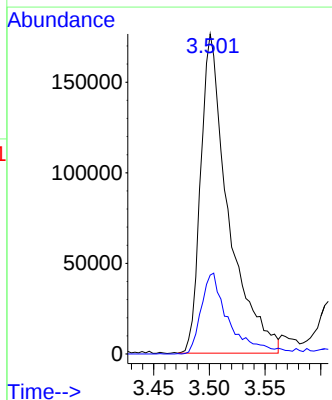
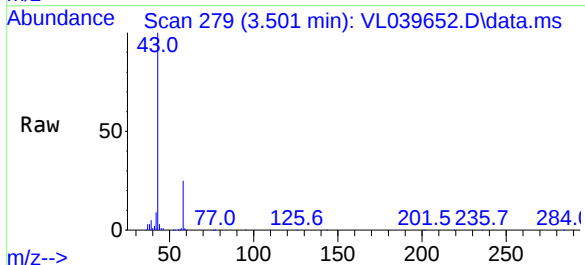
Instrument :
MSVOA_L
ClientSampleId :

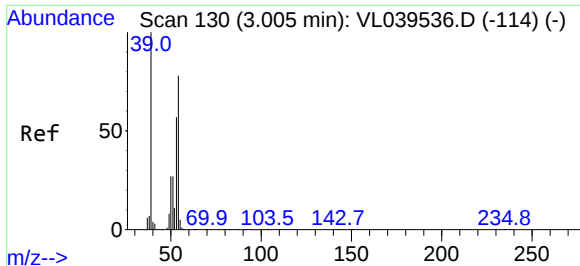
Tgt Ion: 45 Resp: 264138
Ion Ratio Lower Upper
45 100
46 39.8 22.8 91.2



#15
Acetone
Concen: 2.527 ppbv
RT: 3.501 min Scan# 279
Delta R.T. 0.017 min
Lab File: VL039652.D
Acq: 22 Sep 2022 2:16

Tgt Ion: 43 Resp: 303650
Ion Ratio Lower Upper
43 100
58 25.4 21.0 31.6





#16

1,3-Butadiene

Concen: 0.090 ppbv

RT: 3.041 min Scan# 11

Delta R.T. 0.036 min

Lab File: VL039652.D

Acq: 22 Sep 2022 2:16

Instrument :

MSVOA_L

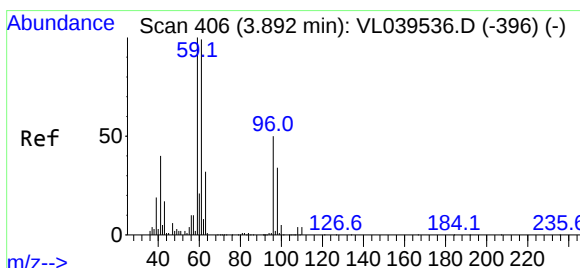
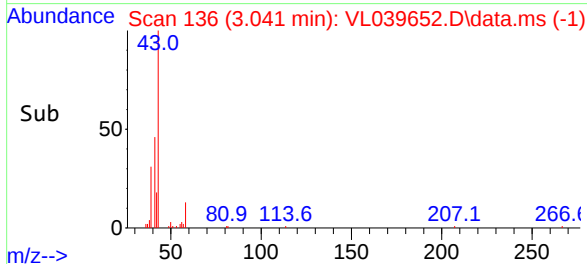
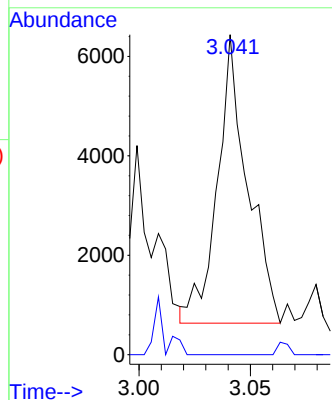
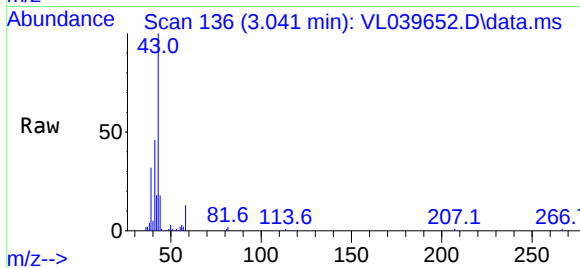
ClientSampleId :

Tgt Ion: 39 Resp: 5458

Ion Ratio Lower Upper

39 100

54 7.3 63.7 95.5#



#17

tert-Butyl alcohol

Concen: 0.042 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.033 min

Lab File: VL039652.D

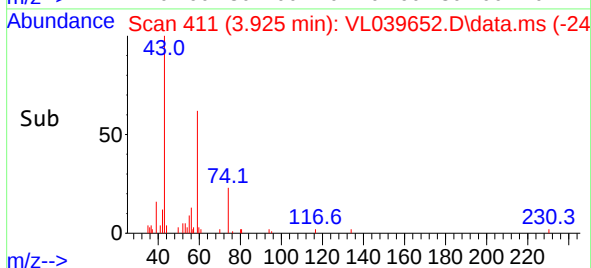
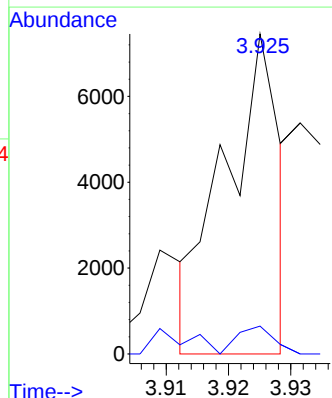
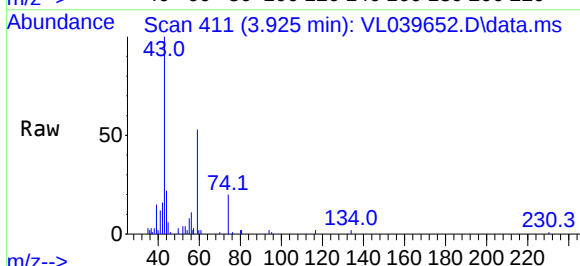
Acq: 22 Sep 2022 2:16

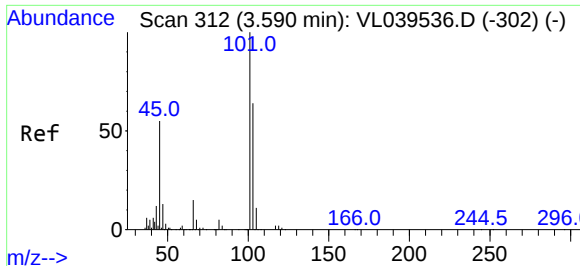
Tgt Ion: 59 Resp: 4542

Ion Ratio Lower Upper

59 100

57 12.2 8.7 13.1

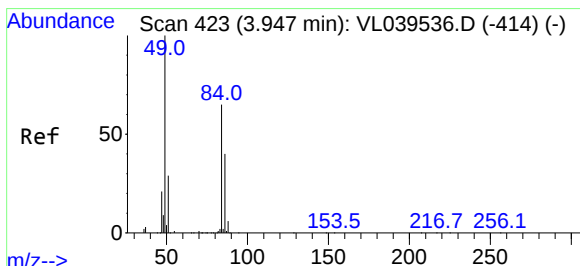
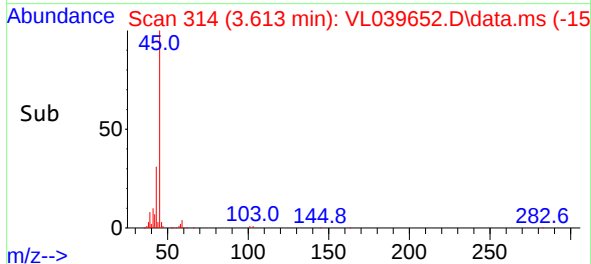
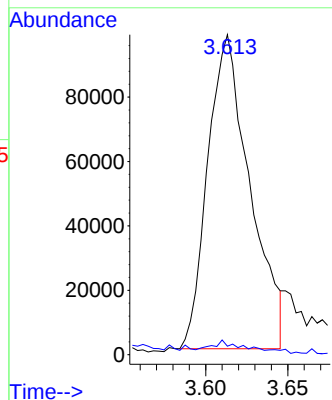
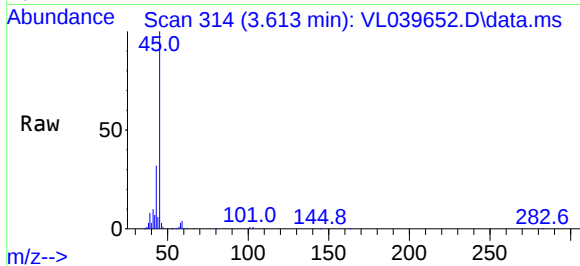




#19
Isopropyl Alcohol
Concen: 2.850 ppbv
RT: 3.613 min Scan# 312
Delta R.T. 0.023 min
Lab File: VL039652.D
Acq: 22 Sep 2022 2:16

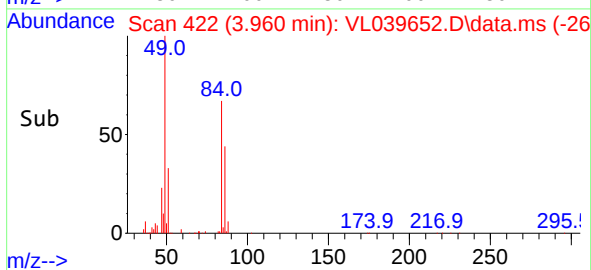
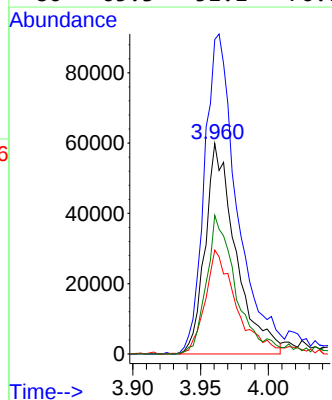
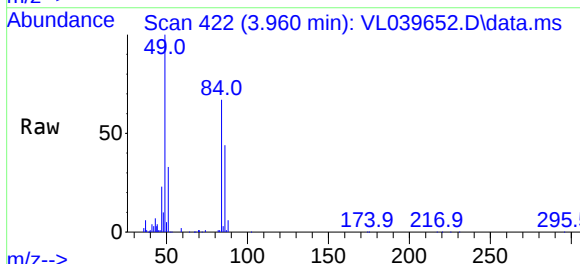
Instrument :
MSVOA_L
ClientSampleId :

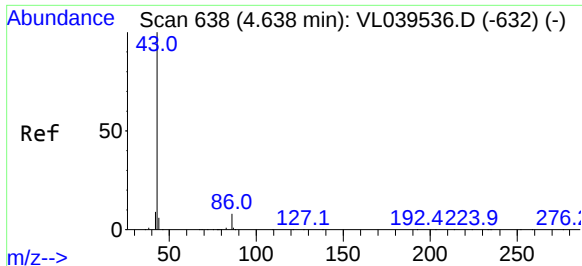
Tgt Ion: 45 Resp: 174567
Ion Ratio Lower Upper
45 100
58 4.7 3.2 4.8



#20
Methylene Chloride
Concen: 1.695 ppbv
RT: 3.960 min Scan# 422
Delta R.T. 0.014 min
Lab File: VL039652.D
Acq: 22 Sep 2022 2:16

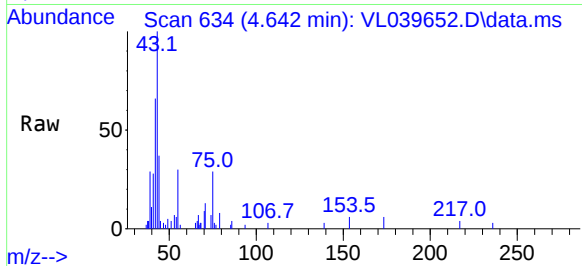
Tgt Ion: 84 Resp: 94145
Ion Ratio Lower Upper
84 100
49 148.6 123.1 184.7
51 49.3 34.4 51.6
86 65.3 51.1 76.7



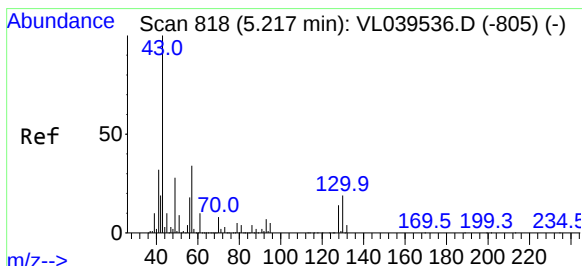
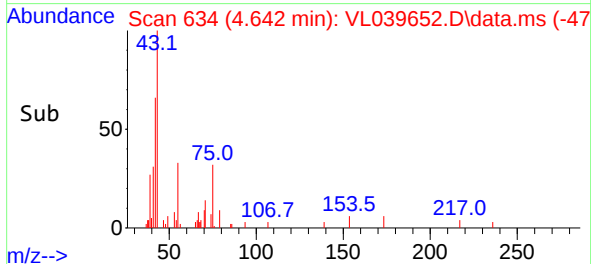
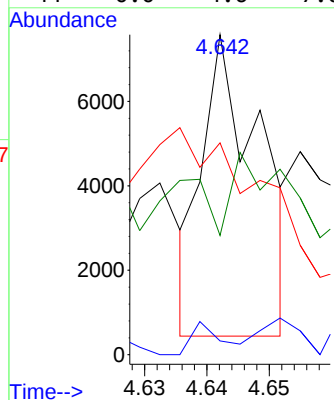


#23
 Vinyl Acetate
 Concen: 0.085 ppbv
 RT: 4.642 min Scan# 61
 Delta R.T. 0.004 min
 Lab File: VL039652.D
 Acq: 22 Sep 2022 2:16

Instrument :
 MSVOA_L
 ClientSampleId :

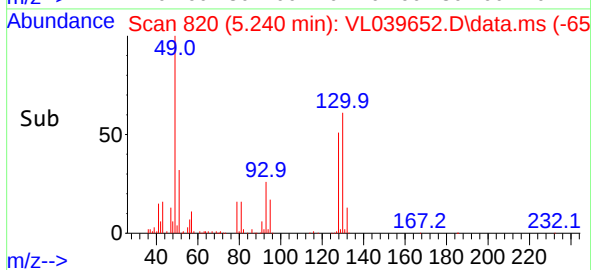
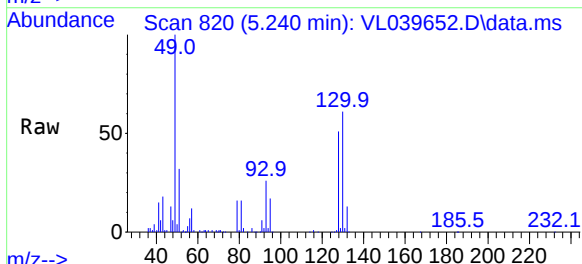
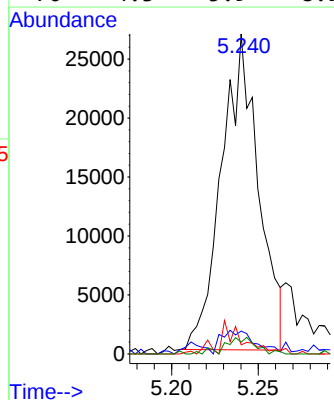


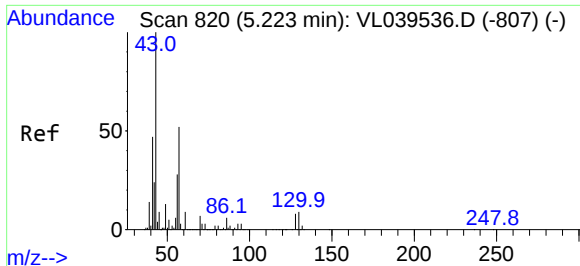
Tgt Ion:	43	Resp:	4594
Ion	Ratio	Lower	Upper
43	100		
86	7.0	5.0	7.6
42	23.0	7.7	11.5#
44	0.0	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 0.152 ppbv
 RT: 5.240 min Scan# 820
 Delta R.T. 0.023 min
 Lab File: VL039652.D
 Acq: 22 Sep 2022 2:16

Tgt Ion:	43	Resp:	39730
Ion	Ratio	Lower	Upper
43	100		
45	11.0	8.2	12.4
61	6.9	8.3	12.5#
70	4.3	5.9	8.9#

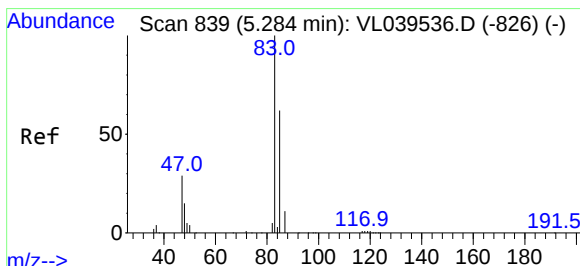
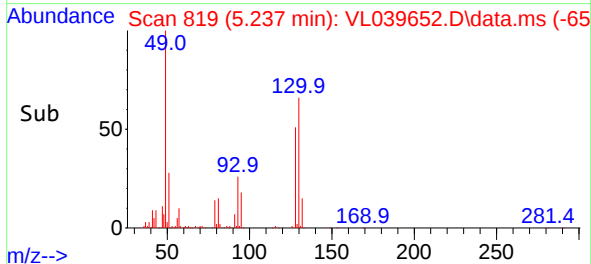
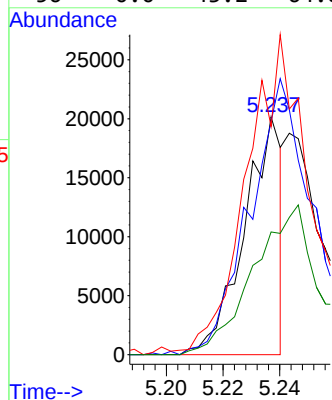
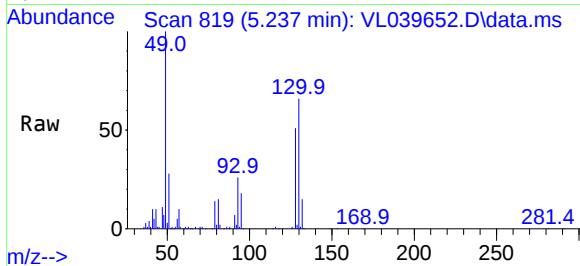




#26
Hexane
Concen: 0.166 ppbv
RT: 5.237 min Scan# 819
Delta R.T. 0.014 min
Lab File: VL039652.D
Acq: 22 Sep 2022 2:16

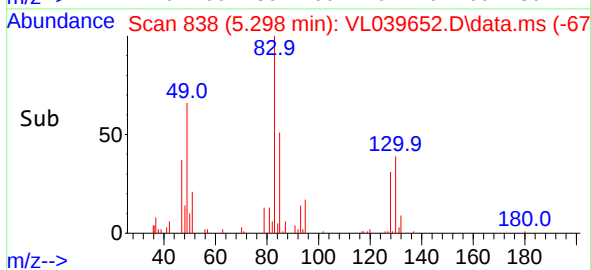
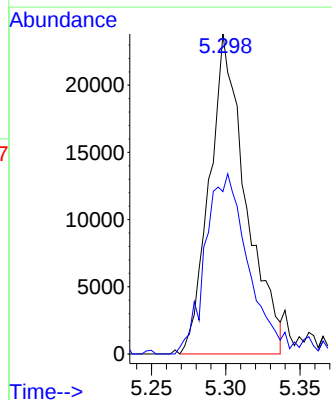
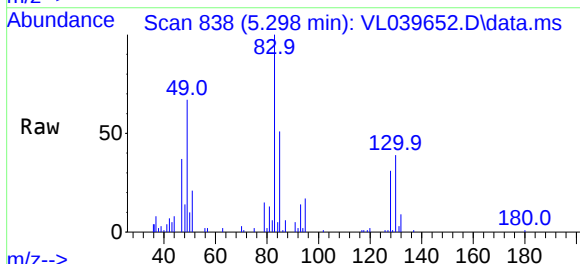
Instrument :
MSVOA_L
ClientSampleId :

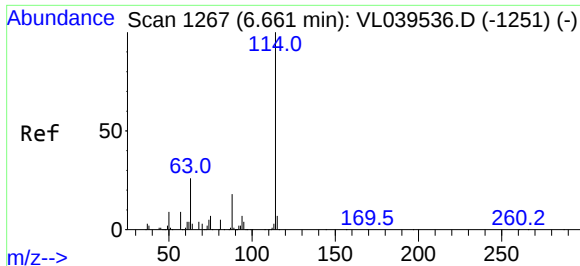
Tgt Ion: 57 Resp: 18491
Ion Ratio Lower Upper
57 100
41 0.0 76.9 115.3#
43 0.0 191.0 286.6#
56 0.0 43.2 64.8#



#29
Chloroform
Concen: 0.253 ppbv
RT: 5.298 min Scan# 838
Delta R.T. 0.014 min
Lab File: VL039652.D
Acq: 22 Sep 2022 2:16

Tgt Ion: 83 Resp: 40596
Ion Ratio Lower Upper
83 100
85 48.6 52.8 79.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 114

Delta R.T. 0.014 min

Lab File: VL039652.D

Acq: 22 Sep 2022 2:16

Instrument :

MSVOA_L

ClientSampleId :

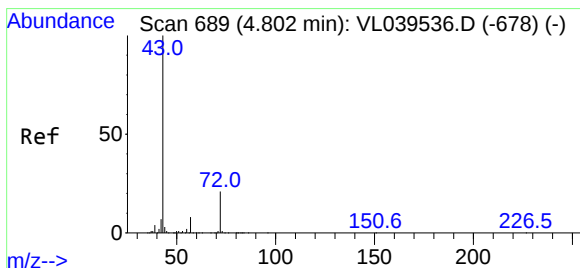
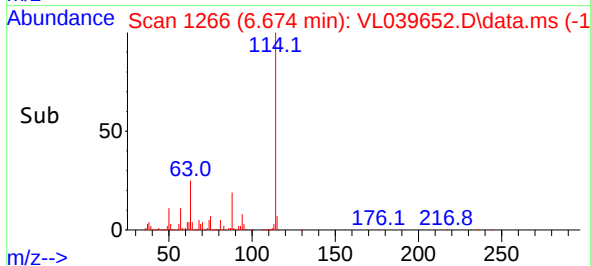
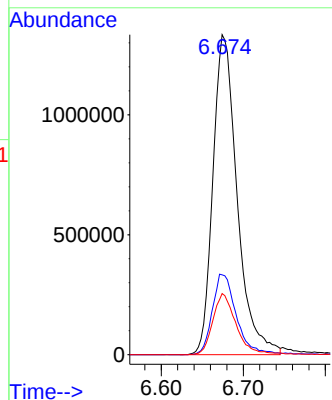
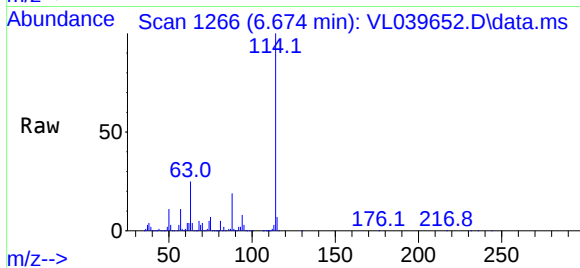
Tgt Ion:114 Resp: 2736384

Ion Ratio Lower Upper

114 100

63 25.5 20.2 30.4

88 18.8 14.5 21.7



#34

2-Butanone

Concen: 0.034 ppbv

RT: 4.816 min Scan# 688

Delta R.T. 0.014 min

Lab File: VL039652.D

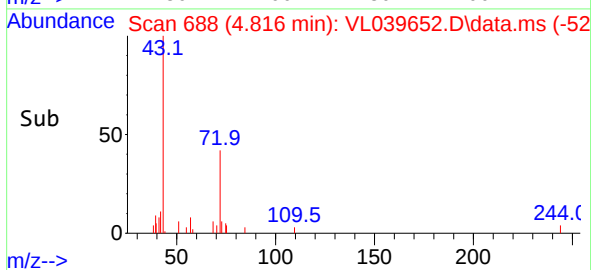
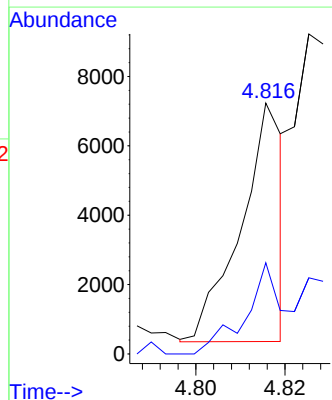
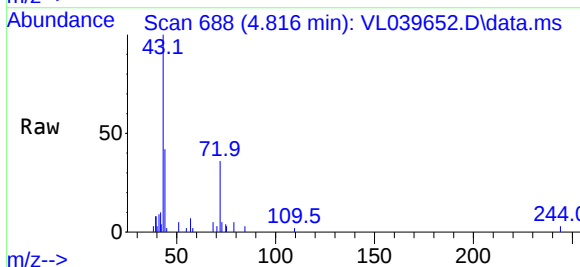
Acq: 22 Sep 2022 2:16

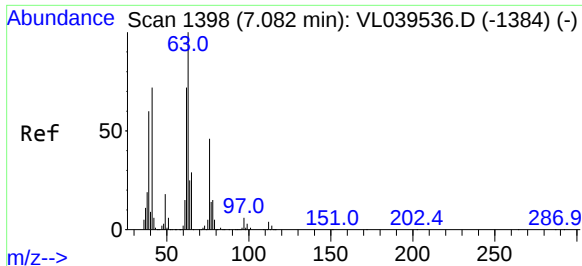
Tgt Ion: 43 Resp: 4537

Ion Ratio Lower Upper

43 100

72 94.3 17.9 26.9#





#39

1,2-Dichloropropane

Concen: 8.300 ppbv

RT: 6.671 min Scan# 11

Delta R.T. -0.411 min

Lab File: VL039652.D

Acq: 22 Sep 2022 2:16

Instrument :

MSVOA_L

ClientSampleId :

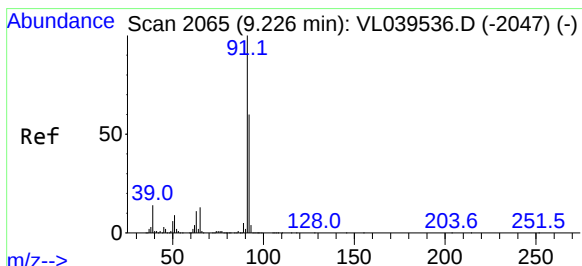
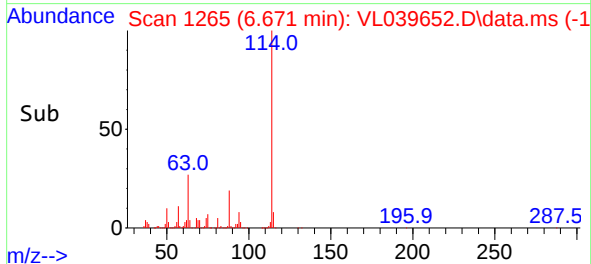
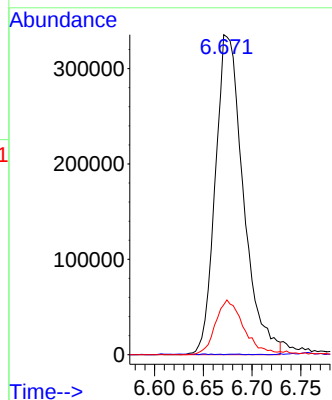
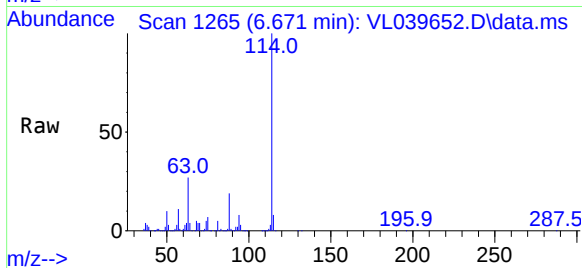
Tgt Ion: 63 Resp: 670540

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 15.6 51.4 77.0#



#53

Toluene

Concen: 0.039 ppbv

RT: 9.250 min Scan# 2067

Delta R.T. 0.023 min

Lab File: VL039652.D

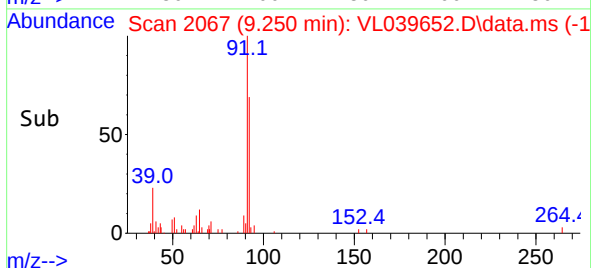
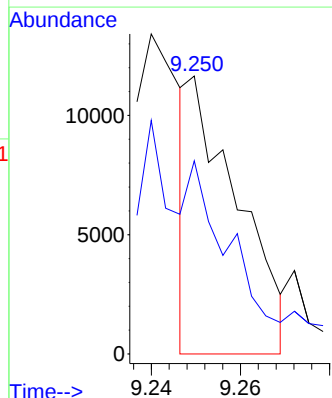
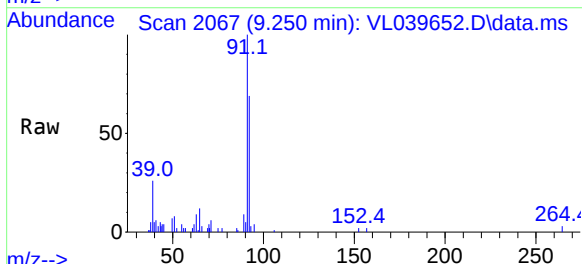
Acq: 22 Sep 2022 2:16

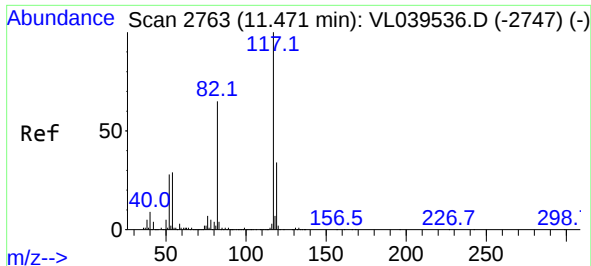
Tgt Ion: 91 Resp: 9006

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.2#



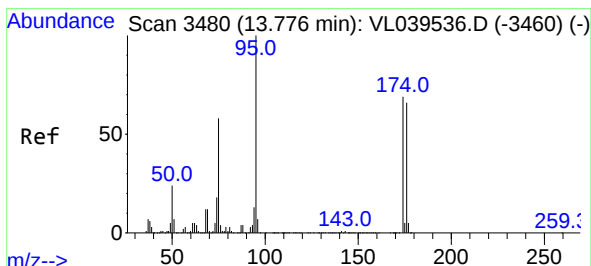
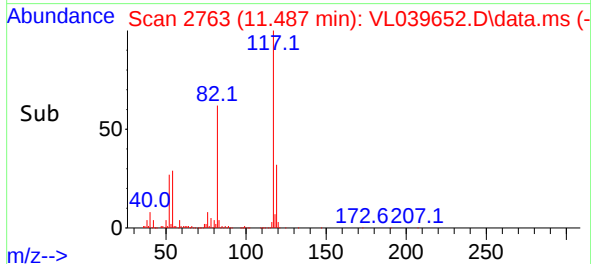
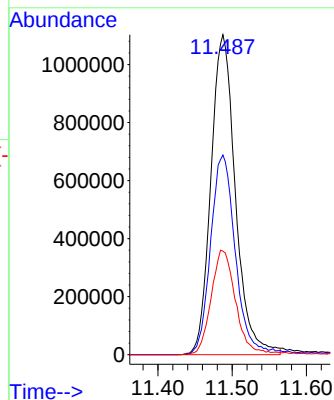
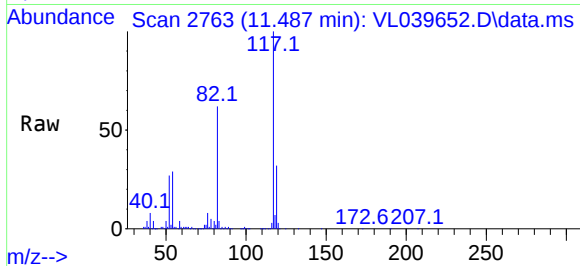


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.487 min Scan# 211
Delta R.T. 0.017 min
Lab File: VL039652.D
Acq: 22 Sep 2022 2:16

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 2529944

Ion	Ratio	Lower	Upper
117	100		
82	64.5	50.8	76.2
119	33.7	24.1	36.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.912 ppbv
RT: 13.796 min Scan# 3481
Delta R.T. 0.020 min
Lab File: VL039652.D
Acq: 22 Sep 2022 2:16

Tgt Ion: 95 Resp: 1871916

Ion	Ratio	Lower	Upper
95	100		
174	72.8	55.9	83.9
175	5.2	4.2	6.4

