

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112222\
 Data File : VL039923.D
 Acq On : 22 Nov 2022 19:29
 Operator : SY/AP
 Sample : N5767-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Nov 23 04:50:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Nov 22 03:45:31 2022
 Response via : Initial Calibration

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

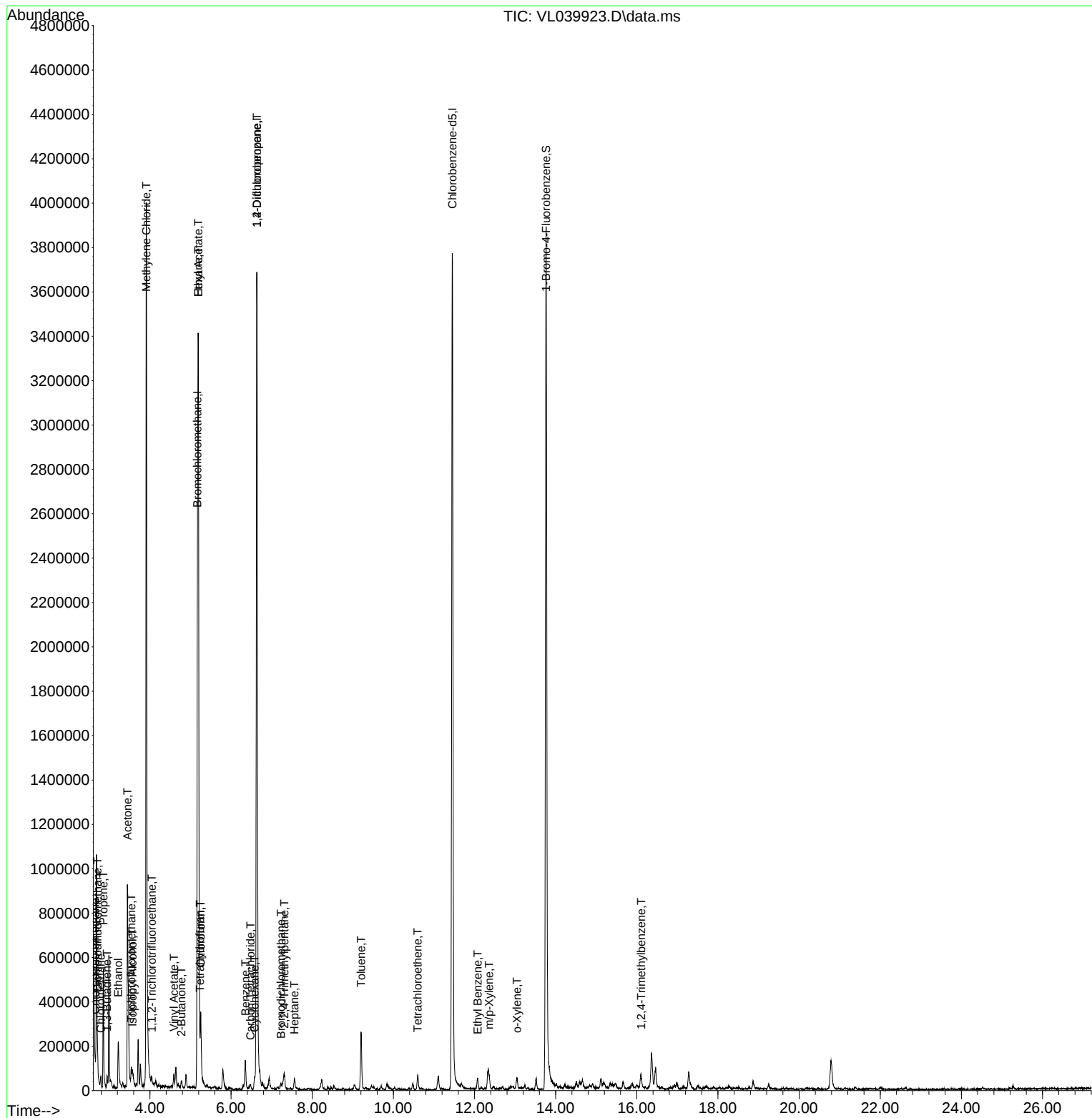
Internal Standards						
1) Bromochloromethane	5.169	49	1012172	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.635	114	2837830	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.452	117	2480802	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1965234	10.371	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 103.700%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	83881	0.579	ppbv	99
3) Chlorodifluoromethane	2.652	51	78917	0.565	ppbv #	89
4) Chloromethane	2.793	50	32565	0.365	ppbv	98
9) Propene	2.851	41	129276	1.965	ppbv	100
10) Heptane	7.558	43	18191	0.115	ppbv	99
11) Trichlorofluoromethane	3.542	101	41738	0.236	ppbv	87
12) 1,1,2-Trichlorotrifluo...	4.044	101	4719	0.035	ppbv #	27
13) Ethanol	3.221	45	237834	47.348	ppbv	100
15) Acetone	3.446	43	976280	7.272	ppbv	95
16) 1,3-Butadiene	2.941	39	14103	0.211	ppbv #	62
19) Isopropyl Alcohol	3.571	45	74906	1.030	ppbv #	1
20) Methylene Chloride	3.912	84	1369030	21.048	ppbv	97
23) Vinyl Acetate	4.594	43	28695	0.520	ppbv #	28
25) Ethyl Acetate	5.192	43	803697	3.261	ppbv #	76
26) Hexane	5.192	57	1173544	10.899	ppbv #	38
29) Chloroform	5.253	83	166350	1.162	ppbv	97
30) Cyclohexane	6.577	84	13528	0.128	ppbv #	68
34) 2-Butanone	4.774	43	34405	0.253	ppbv #	81
35) Carbon Tetrachloride	6.478	117	6499	0.040	ppbv #	69
36) Benzene	6.352	78	99576	0.413	ppbv	96
39) 1,2-Dichloropropane	6.635	63	711847	7.575	ppbv #	27
41) Tetrahydrofuran	5.234	42	5570	0.059	ppbv #	57
42) Bromodichloromethane	7.230	83	6513	0.036	ppbv #	91
44) 2,2,4-Trimethylpentane	7.311	57	49337	0.123	ppbv #	61
52) Tetrachloroethene	10.597	164	8649	0.096	ppbv	97
53) Toluene	9.204	91	188557	0.686	ppbv	96
58) Ethyl Benzene	12.079	91	19984	0.059	ppbv	94
59) m/p-Xylene	12.359	91	26078	0.093	ppbv #	30
60) o-Xylene	13.047	91	31039	0.116	ppbv	81
74) 1,2,4-Trimethylbenzene	16.104	105	13326	0.046	ppbv #	55

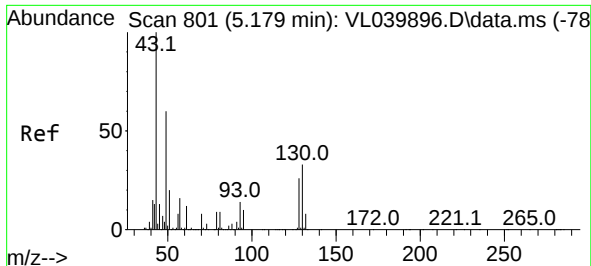
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 23 04:50:44 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Nov 22 03:45:31 2022
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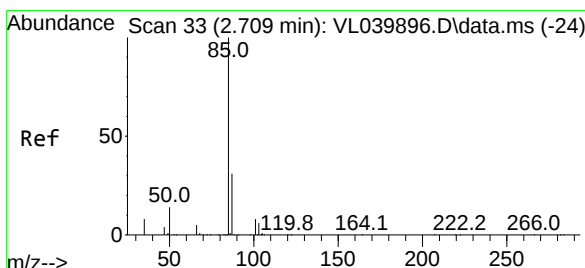
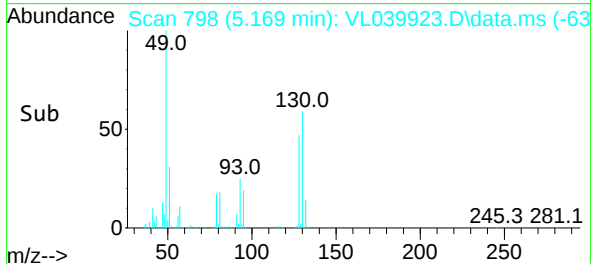
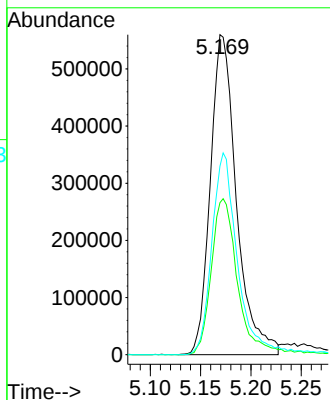
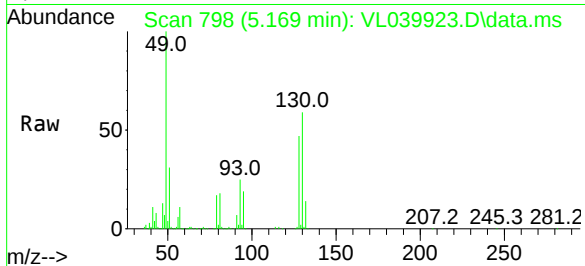




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 79
Delta R.T. 0.013 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

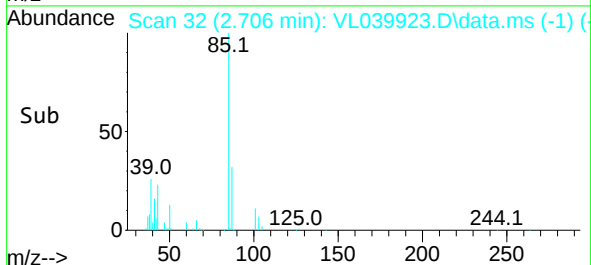
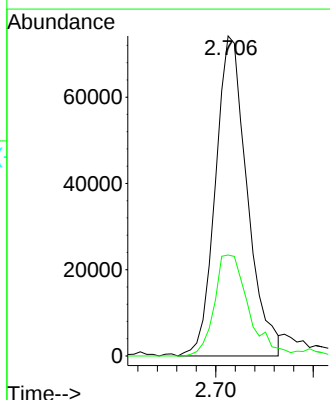
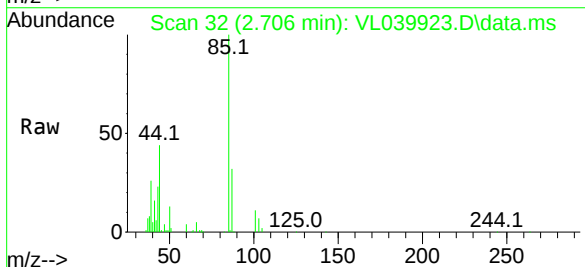
Instrument :
MSVOA_L
ClientSampleId :
IA1

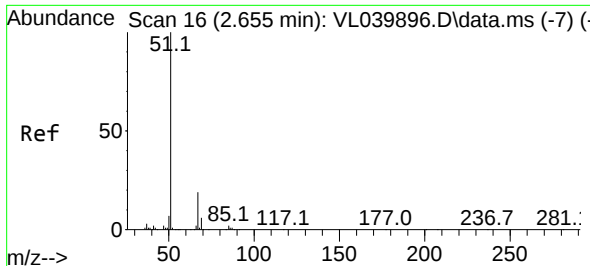
Tgt Ion: 49 Resp: 1012172
Ion Ratio Lower Upper
49 100
128 50.2 22.1 66.3
130 62.9 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.579 ppbv
RT: 2.706 min Scan# 32
Delta R.T. 0.010 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

Tgt Ion: 85 Resp: 83881
Ion Ratio Lower Upper
85 100
87 31.6 25.0 37.4

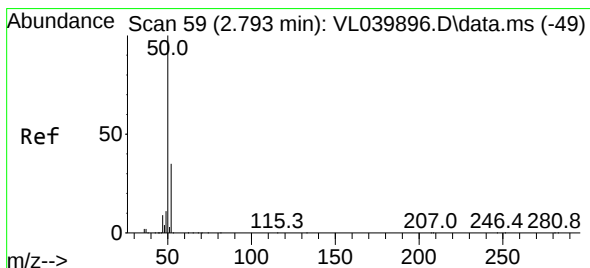
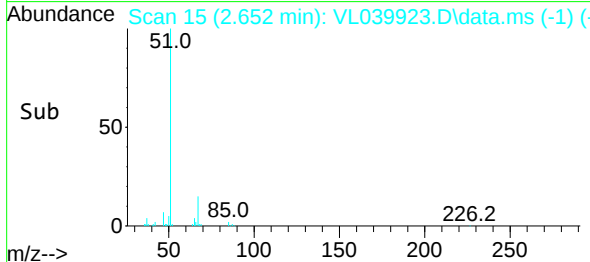
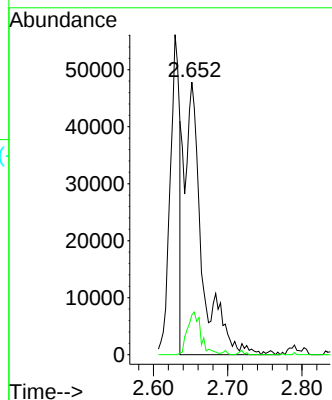
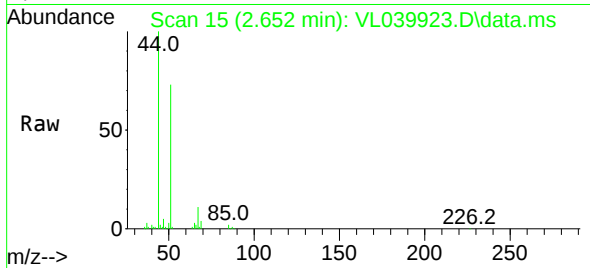




#3
Chlorodifluoromethane
Concen: 0.565 ppbv
RT: 2.652 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

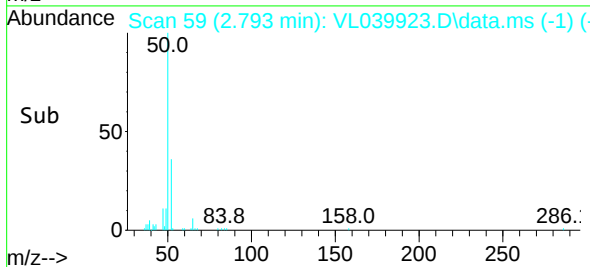
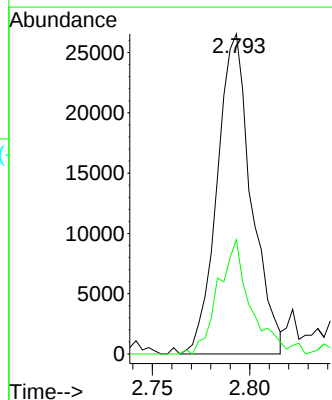
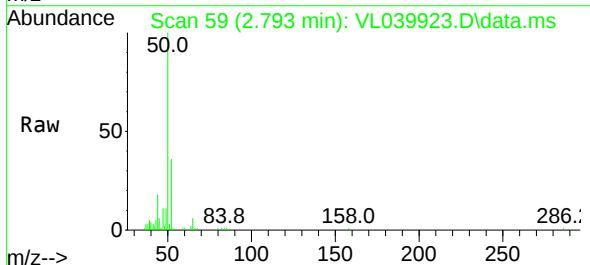
Instrument :
MSVOA_L
ClientSampleId :
IA1

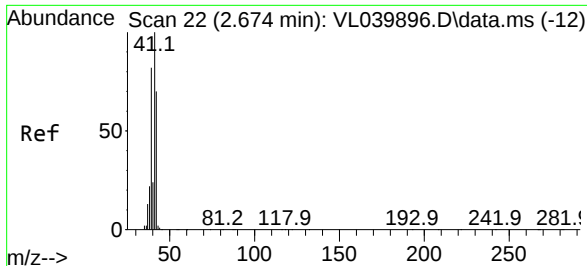
Tgt Ion: 51 Resp: 78917
Ion Ratio Lower Upper
51 100
67 12.8 14.2 21.4#



#4
Chloromethane
Concen: 0.365 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.013 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

Tgt Ion: 50 Resp: 32565
Ion Ratio Lower Upper
50 100
52 35.7 27.8 41.8





#9

Propene

Concen: 1.965 ppbv

RT: 2.851 min Scan# 71

Delta R.T. 0.190 min

Lab File: VL039923.D

Acq: 22 Nov 2022 19:29

Instrument :

MSVOA_L

ClientSampleId :

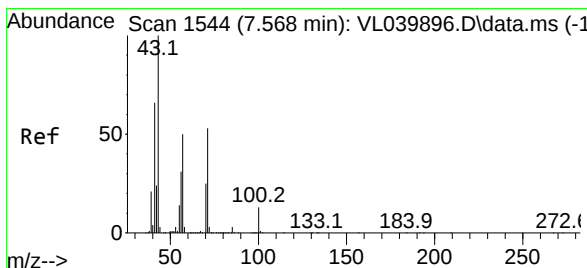
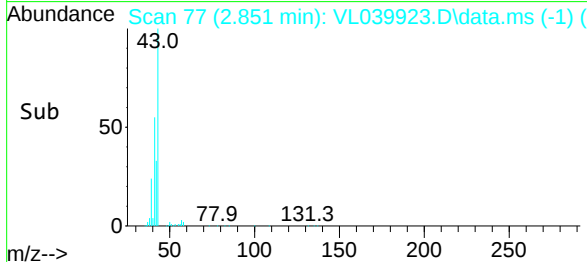
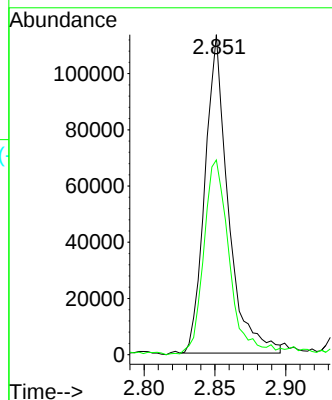
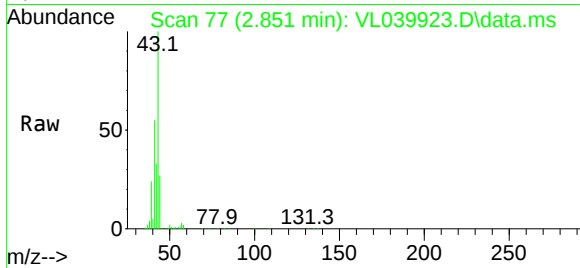
IA1

Tgt Ion: 41 Resp: 129276

Ion Ratio Lower Upper

41 100

42 69.9 55.8 83.6



#10

Heptane

Concen: 0.115 ppbv

RT: 7.558 min Scan# 1541

Delta R.T. 0.013 min

Lab File: VL039923.D

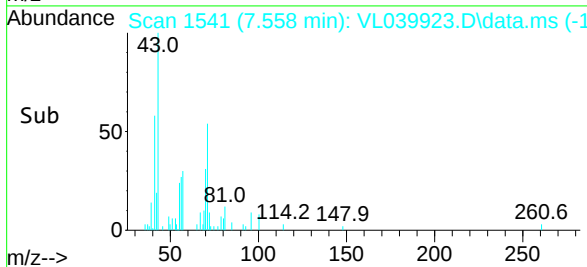
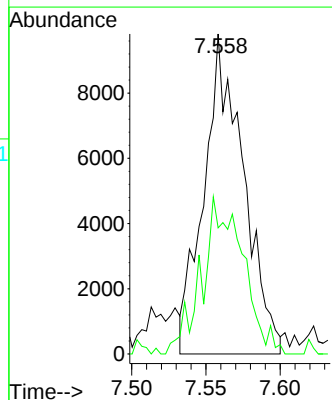
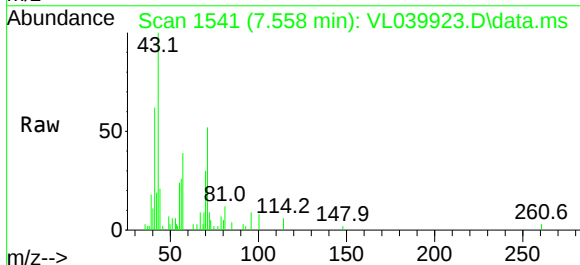
Acq: 22 Nov 2022 19:29

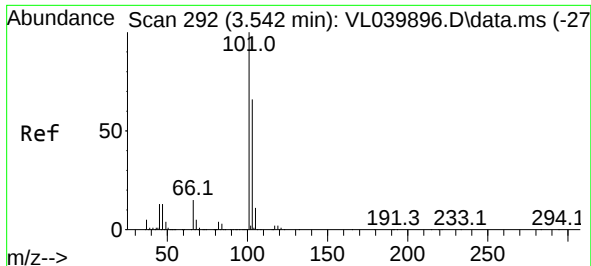
Tgt Ion: 43 Resp: 18191

Ion Ratio Lower Upper

43 100

57 51.9 40.7 61.1

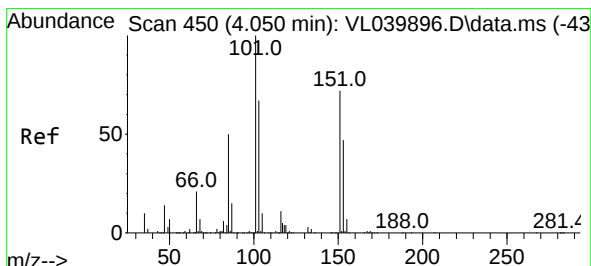
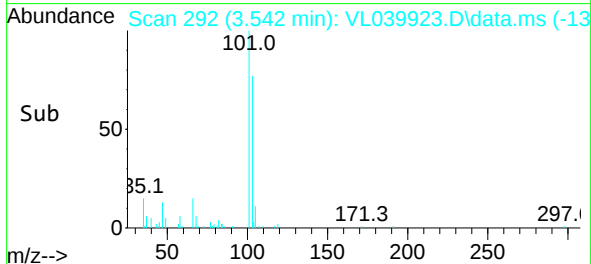
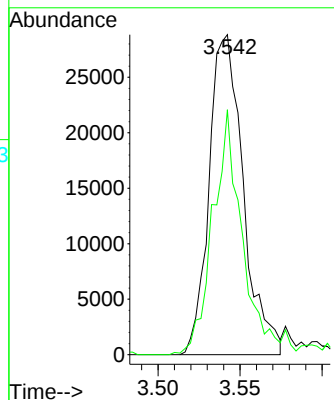
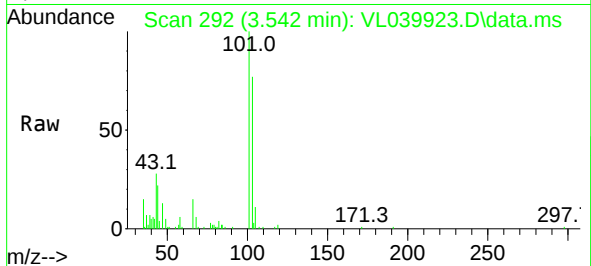




#11
 Trichlorofluoromethane
 Concen: 0.236 ppbv
 RT: 3.542 min Scan# 292
 Delta R.T. 0.013 min
 Lab File: VL039923.D
 Acq: 22 Nov 2022 19:29

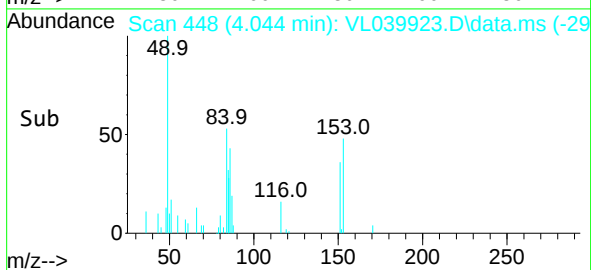
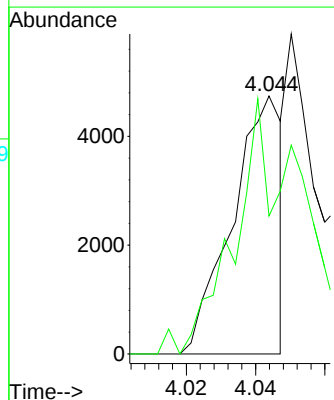
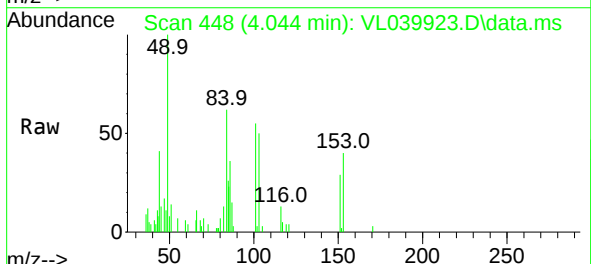
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

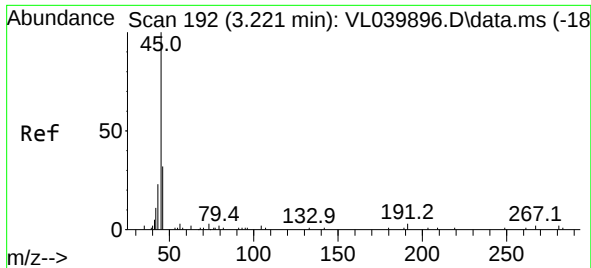
Tgt Ion:101 Resp: 41738
 Ion Ratio Lower Upper
 101 100
 103 76.0 52.6 78.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.035 ppbv
 RT: 4.044 min Scan# 448
 Delta R.T. 0.010 min
 Lab File: VL039923.D
 Acq: 22 Nov 2022 19:29

Tgt Ion:101 Resp: 4719
 Ion Ratio Lower Upper
 101 100
 151 136.7 59.6 89.4#

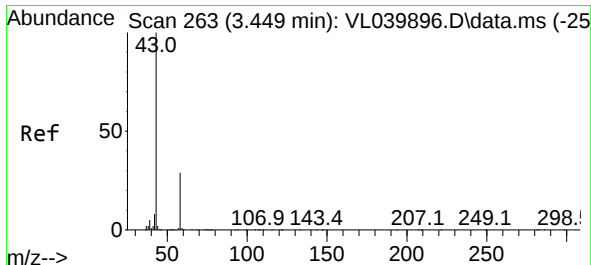
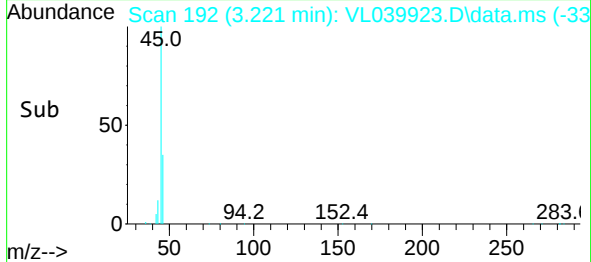
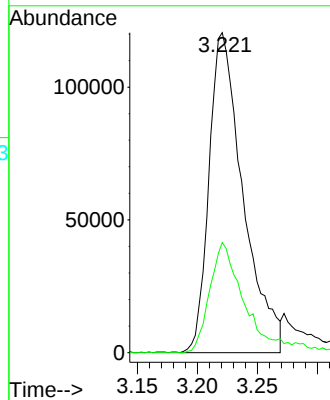
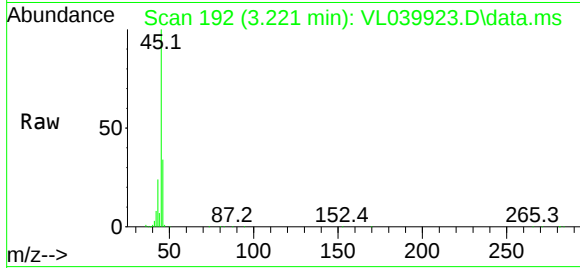




#13
Ethanol
Concen: 47.348 ppbv
RT: 3.221 min Scan# 192
Delta R.T. 0.013 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

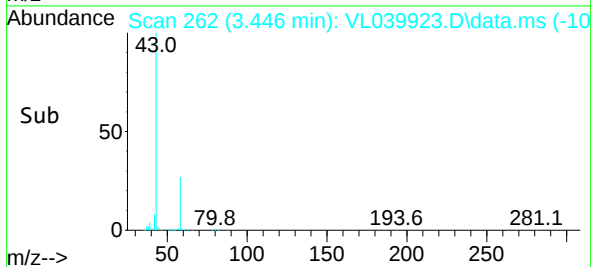
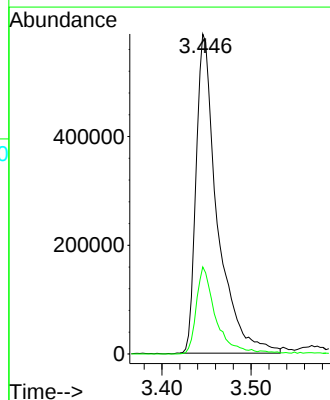
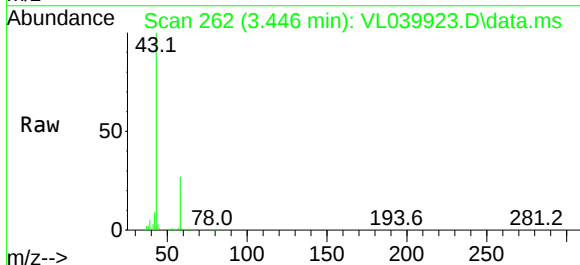
Instrument :
MSVOA_L
ClientSampleId :
IA1

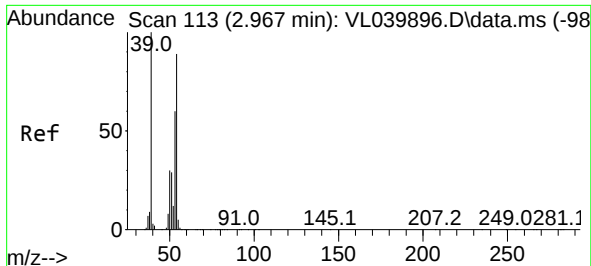
Tgt Ion: 45 Resp: 237834
Ion Ratio Lower Upper
45 100
46 36.5 14.6 58.2



#15
Acetone
Concen: 7.272 ppbv
RT: 3.446 min Scan# 262
Delta R.T. 0.013 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

Tgt Ion: 43 Resp: 976280
Ion Ratio Lower Upper
43 100
58 26.0 22.9 34.3

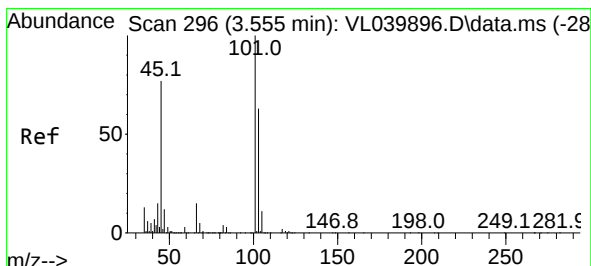
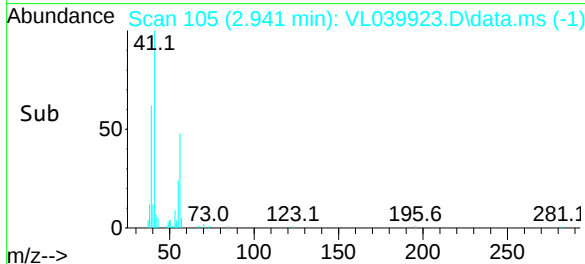
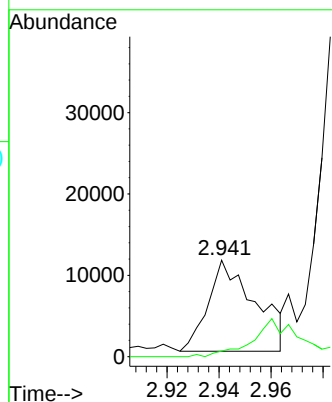
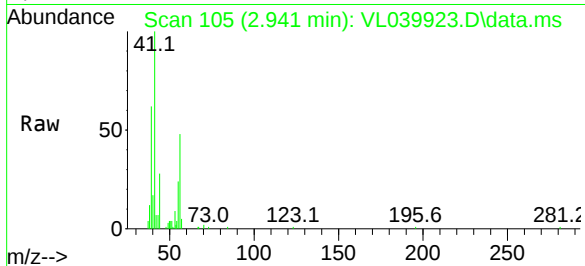




#16
1,3-Butadiene
Concen: 0.211 ppbv
RT: 2.941 min Scan# 105
Delta R.T. -0.013 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

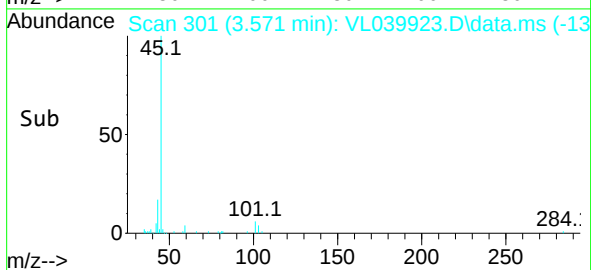
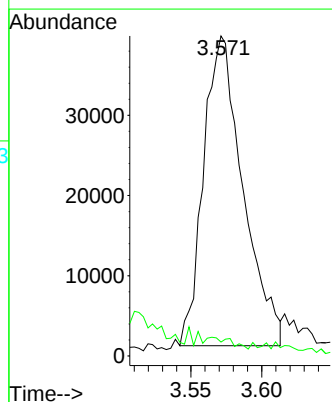
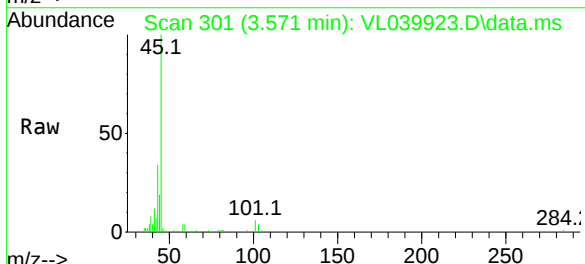
Instrument :
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ClientSampleId :
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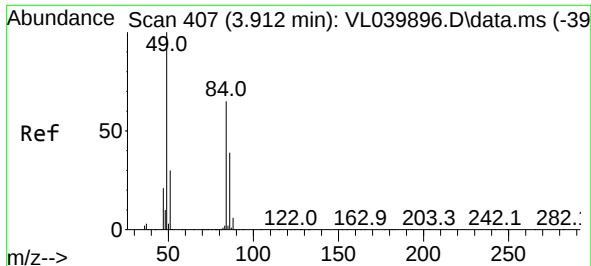
Tgt Ion: 39 Resp: 14103
Ion Ratio Lower Upper
39 100
54 48.8 66.6 99.8#



#19
Isopropyl Alcohol
Concen: 1.030 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.029 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

Tgt Ion: 45 Resp: 74906
Ion Ratio Lower Upper
45 100
58 331.5 38.7 58.1#



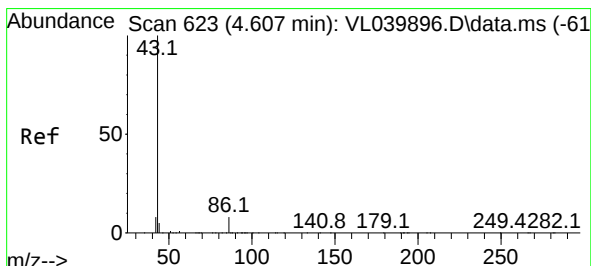
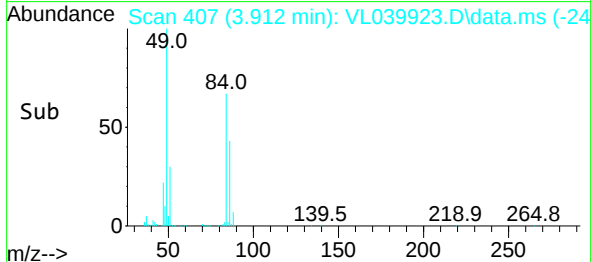
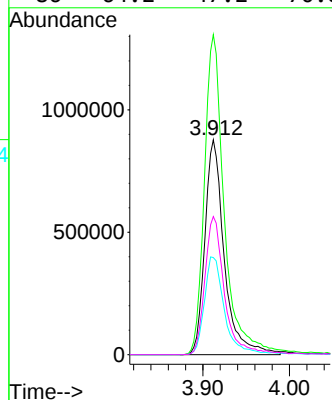
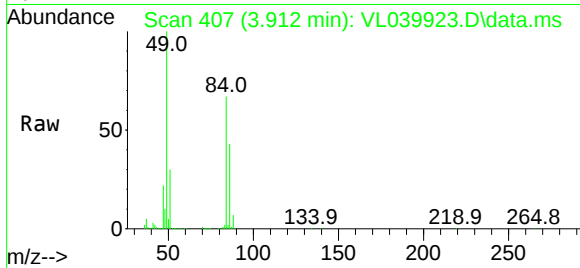


#20
Methylene Chloride
Concen: 21.048 ppbv
RT: 3.912 min Scan# 407
Delta R.T. 0.013 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 84 Resp: 1369030

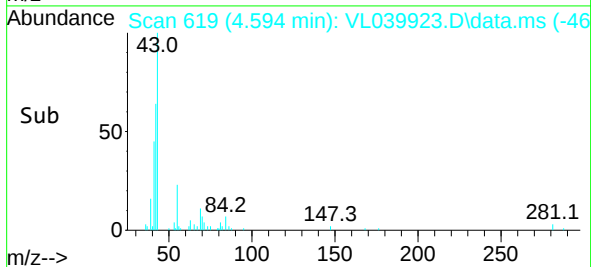
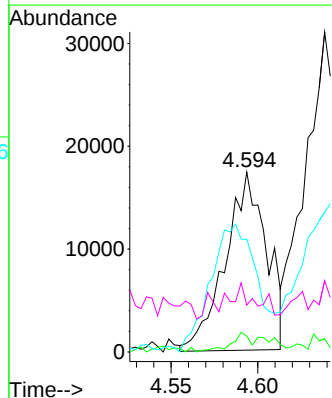
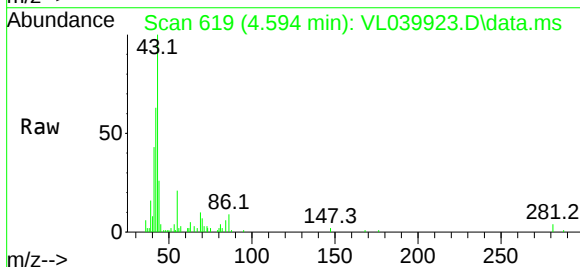
Ion	Ratio	Lower	Upper
84	100		
49	148.9	122.2	183.4
51	45.1	36.3	54.5
86	64.2	47.2	70.8

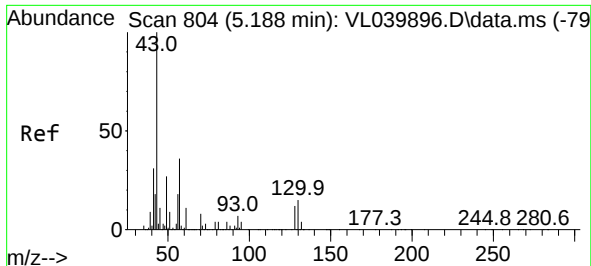


#23
Vinyl Acetate
Concen: 0.520 ppbv
RT: 4.594 min Scan# 619
Delta R.T. 0.003 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

Tgt Ion: 43 Resp: 28695

Ion	Ratio	Lower	Upper
43	100		
86	7.0	5.0	7.4
42	65.0	7.6	11.4#
44	5.6	3.8	5.6

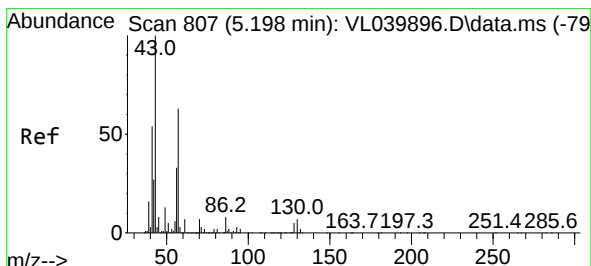
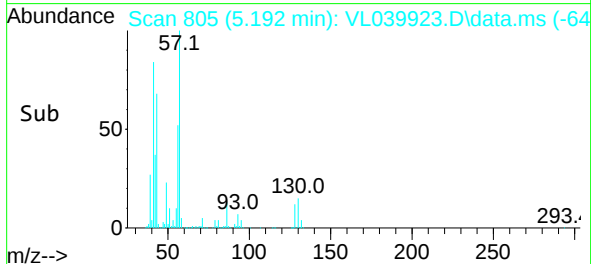
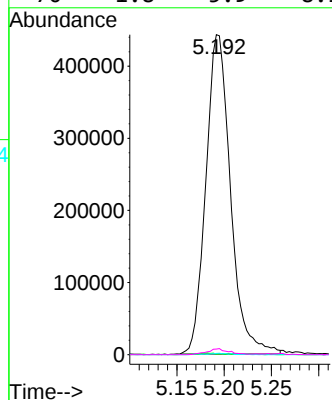
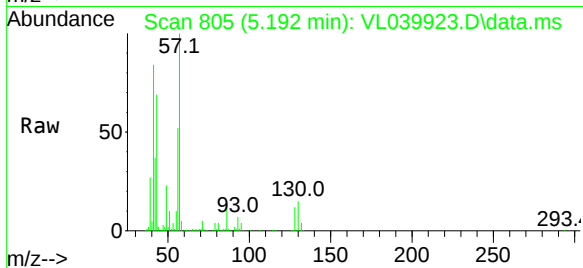




#25
Ethyl Acetate
Concen: 3.261 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.022 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

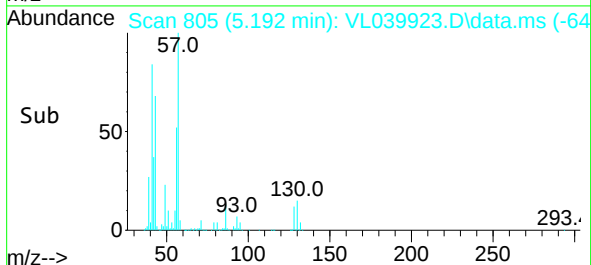
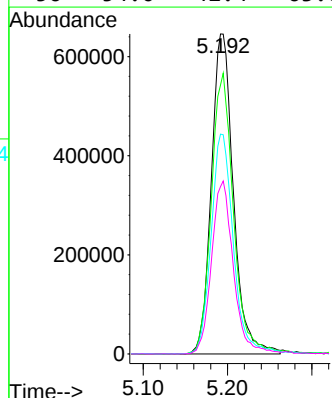
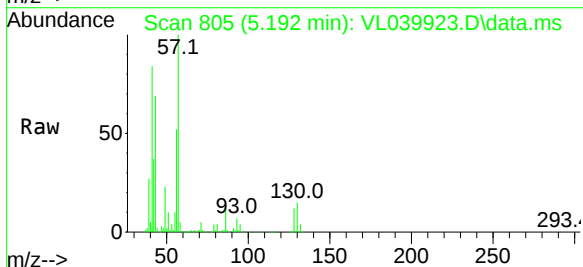
Instrument :
MSVOA_L
ClientSampleId :
IA1

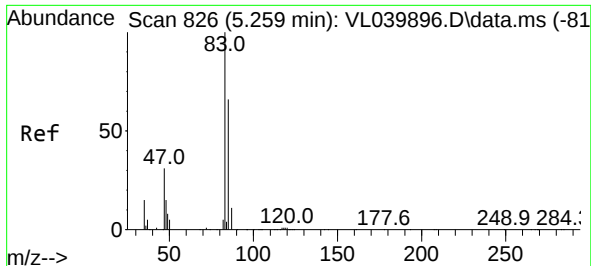
Tgt Ion: 43 Resp: 803697
Ion Ratio Lower Upper
43 100
45 0.6 8.4 12.6#
61 0.4 8.5 12.7#
70 1.8 5.9 8.9#



#26
Hexane
Concen: 10.899 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.010 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

Tgt Ion: 57 Resp: 1173544
Ion Ratio Lower Upper
57 100
41 88.9 72.3 108.5
43 69.8 188.7 283.1#
56 54.0 42.4 63.6





#29

Chloroform

Concen: 1.162 ppbv

RT: 5.253 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL039923.D

Acq: 22 Nov 2022 19:29

Instrument :

MSVOA_L

ClientSampleId :

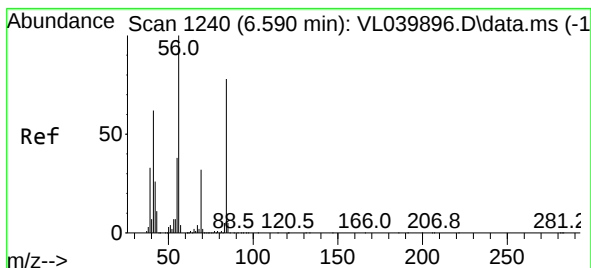
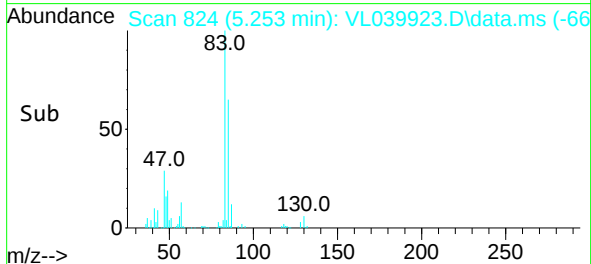
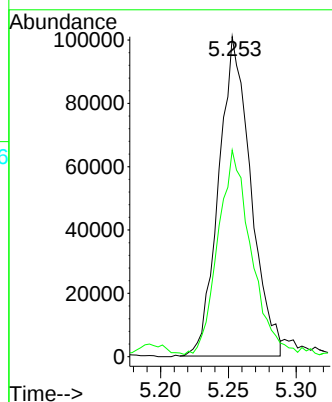
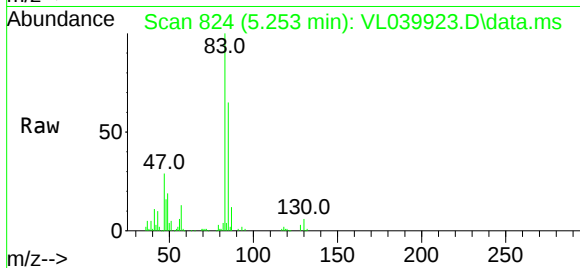
IA1

Tgt Ion: 83 Resp: 166350

Ion Ratio Lower Upper

83 100

85 63.5 52.4 78.6



#30

Cyclohexane

Concen: 0.128 ppbv

RT: 6.577 min Scan# 1236

Delta R.T. 0.010 min

Lab File: VL039923.D

Acq: 22 Nov 2022 19:29

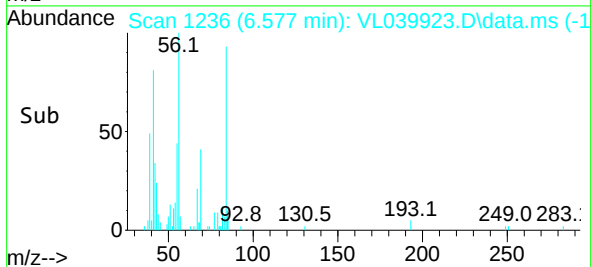
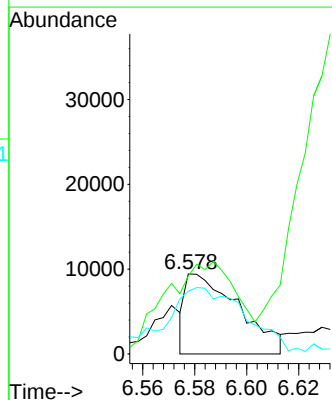
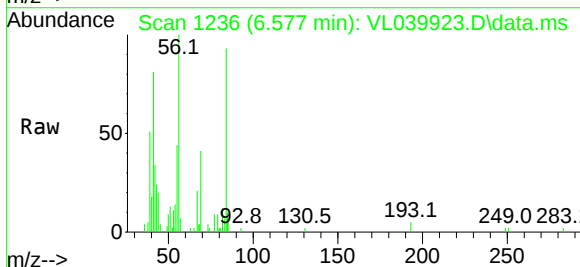
Tgt Ion: 84 Resp: 13528

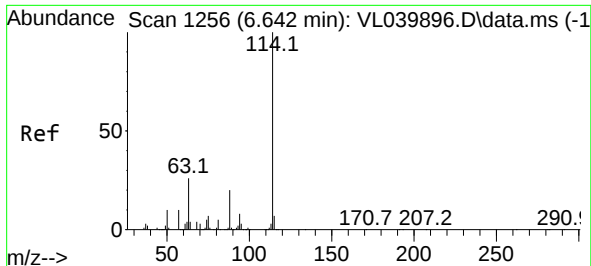
Ion Ratio Lower Upper

84 100

56 161.8 112.5 168.7

41 137.2 67.8 101.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 1

Delta R.T. 0.016 min

Lab File: VL039923.D

Acq: 22 Nov 2022 19:29

Instrument :

MSVOA_L

ClientSampleId :

IA1

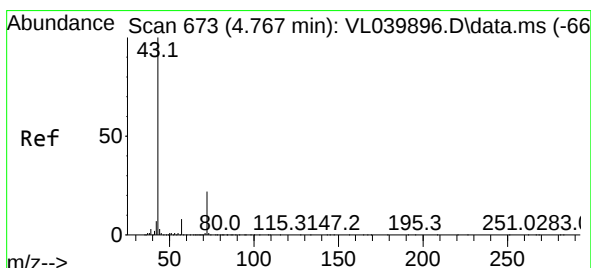
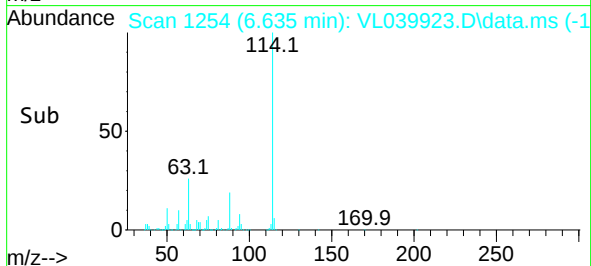
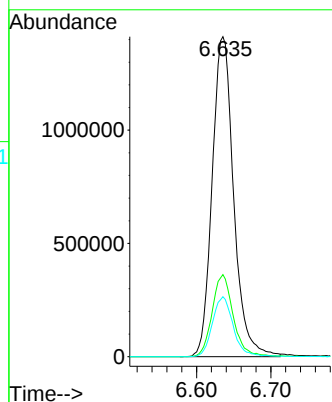
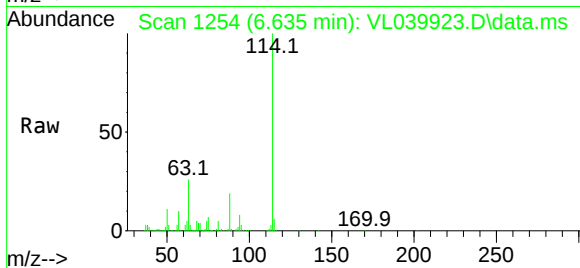
Tgt Ion:114 Resp: 2837830

Ion Ratio Lower Upper

114 100

63 25.4 21.4 32.0

88 18.3 15.3 22.9



#34

2-Butanone

Concen: 0.253 ppbv

RT: 4.774 min Scan# 675

Delta R.T. 0.022 min

Lab File: VL039923.D

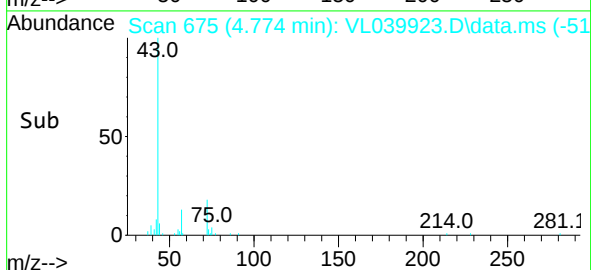
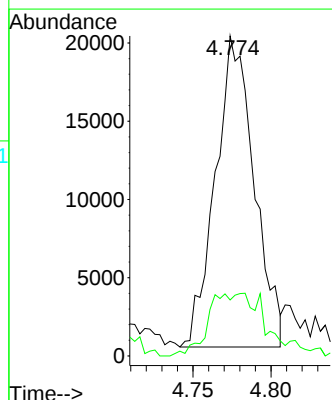
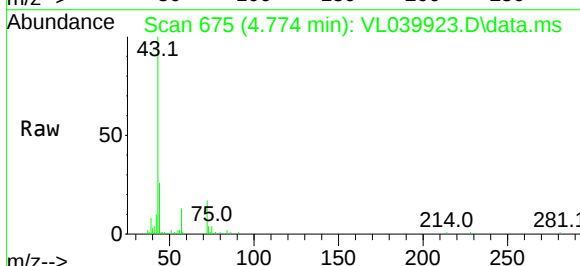
Acq: 22 Nov 2022 19:29

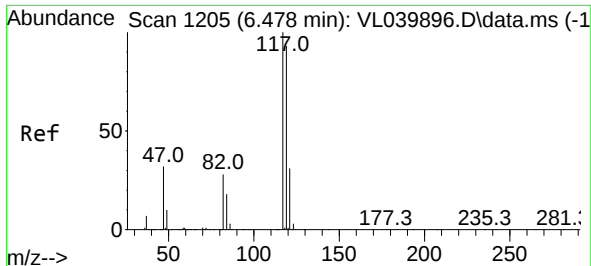
Tgt Ion: 43 Resp: 34405

Ion Ratio Lower Upper

43 100

72 30.9 17.4 26.2#

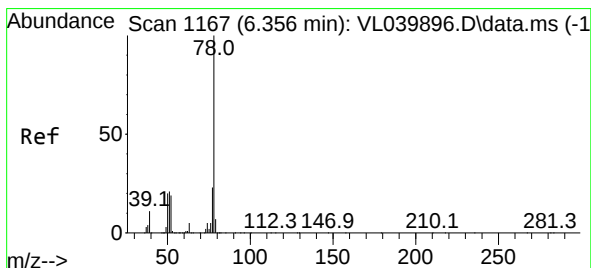
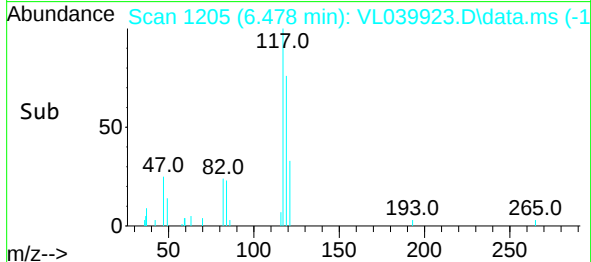
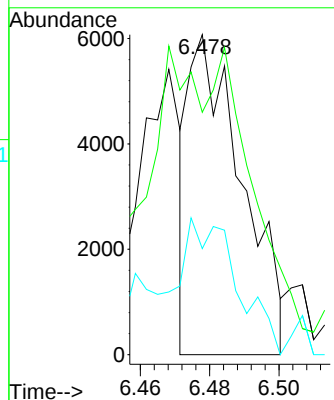
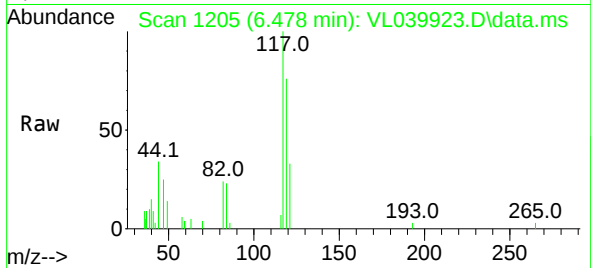




#35
Carbon Tetrachloride
Concen: 0.040 ppbv
RT: 6.478 min Scan# 1165
Delta R.T. 0.016 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

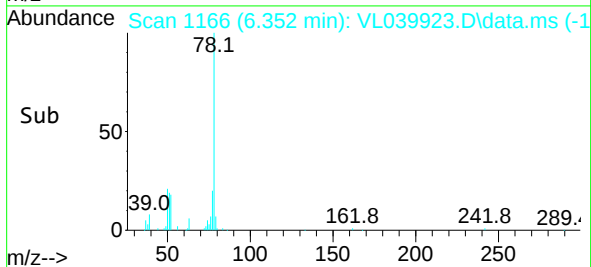
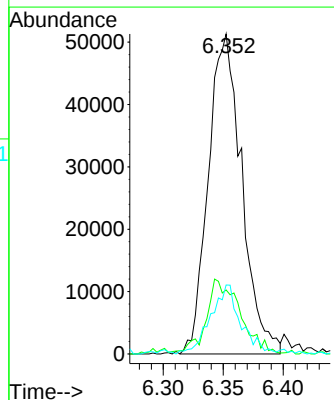
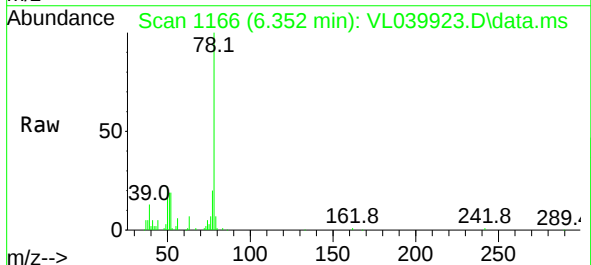
Instrument :
MSVOA_L
ClientSampleId :
IA1

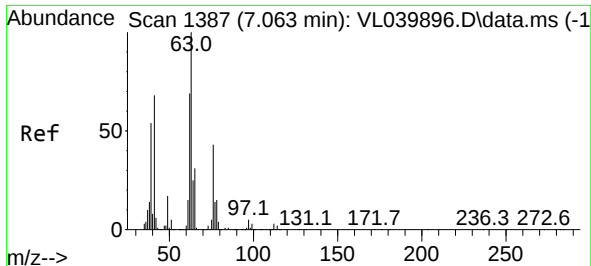
Tgt Ion:117 Resp: 6499
Ion Ratio Lower Upper
117 100
119 58.8 74.7 112.1#
121 40.2 24.5 36.7#



#36
Benzene
Concen: 0.413 ppbv
RT: 6.352 min Scan# 1166
Delta R.T. 0.016 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

Tgt Ion: 78 Resp: 99576
Ion Ratio Lower Upper
78 100
77 19.7 18.2 27.2
50 20.6 15.8 23.8





#39

1,2-Dichloropropane

Concen: 7.575 ppbv

RT: 6.635 min Scan# 1

Delta R.T. -0.405 min

Lab File: VL039923.D

Acq: 22 Nov 2022 19:29

Instrument :

MSVOA_L

ClientSampleId :

IA1

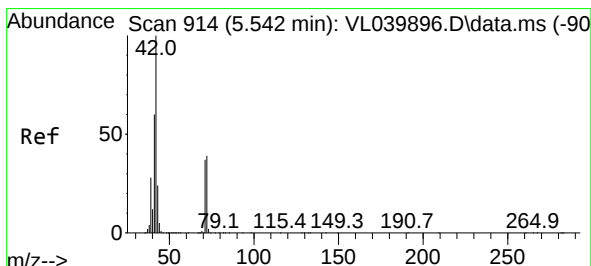
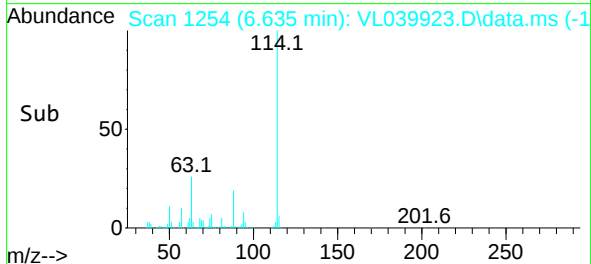
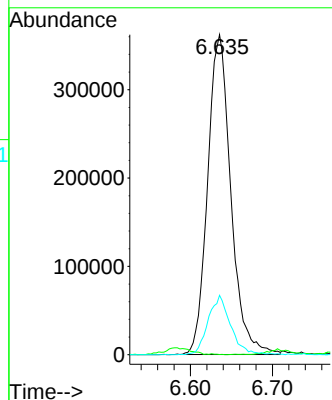
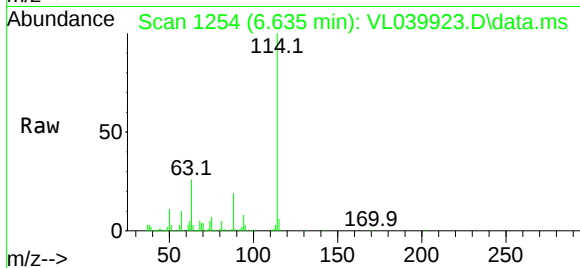
Tgt Ion: 63 Resp: 711847

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 18.4 55.0 82.6#



#41

Tetrahydrofuran

Concen: 0.059 ppbv

RT: 5.234 min Scan# 818

Delta R.T. -0.289 min

Lab File: VL039923.D

Acq: 22 Nov 2022 19:29

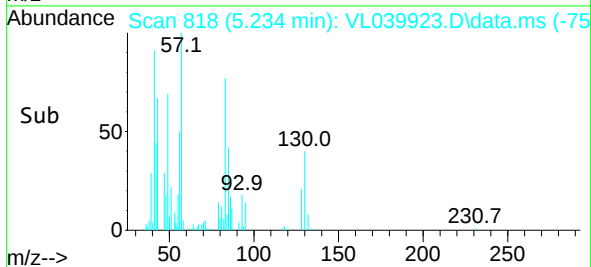
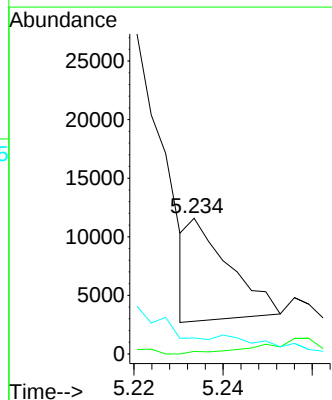
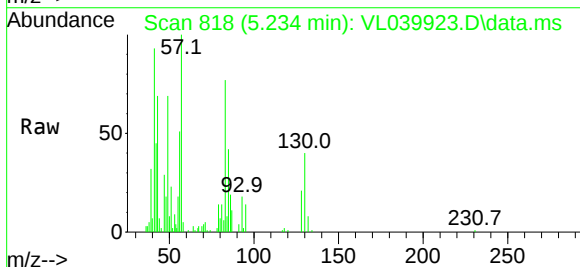
Tgt Ion: 42 Resp: 5570

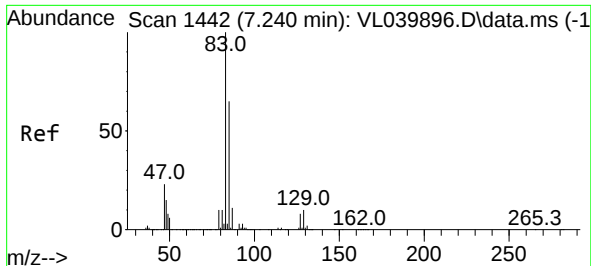
Ion Ratio Lower Upper

42 100

72 25.4 31.6 47.4#

71 0.0 31.2 46.8#

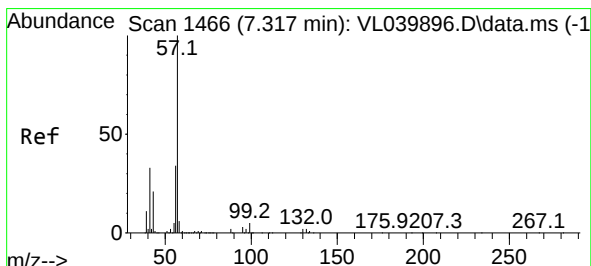
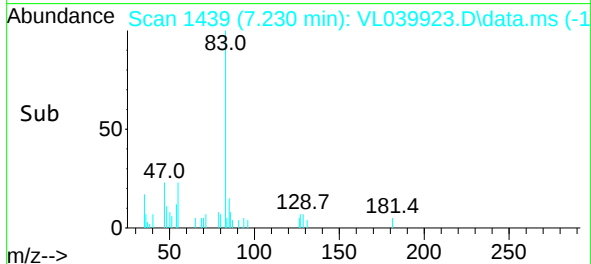
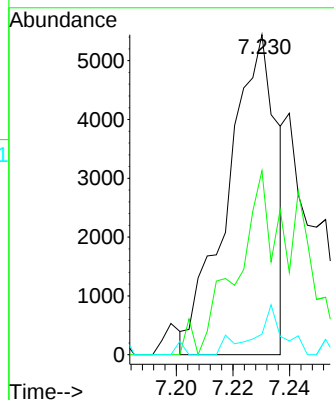
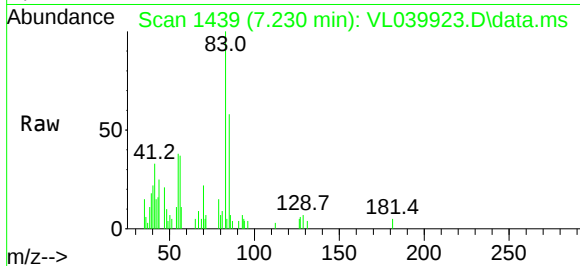




#42
 Bromodichloromethane
 Concen: 0.036 ppbv
 RT: 7.230 min Scan# 1442
 Delta R.T. 0.013 min
 Lab File: VL039923.D
 Acq: 22 Nov 2022 19:29

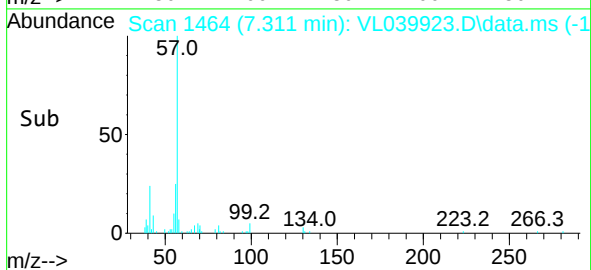
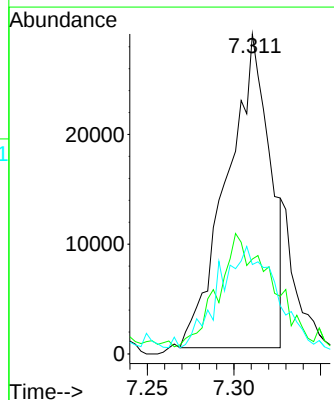
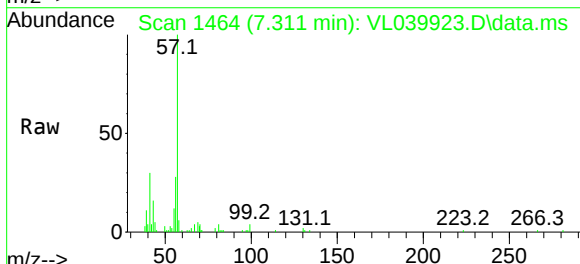
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

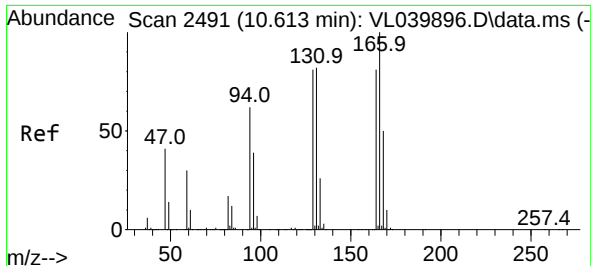
Tgt Ion: 83 Resp: 6513
 Ion Ratio Lower Upper
 83 100
 85 59.0 52.0 78.0
 127 2.3 6.5 9.7#



#44
 2,2,4-Trimethylpentane
 Concen: 0.123 ppbv
 RT: 7.311 min Scan# 1464
 Delta R.T. 0.016 min
 Lab File: VL039923.D
 Acq: 22 Nov 2022 19:29

Tgt Ion: 57 Resp: 49337
 Ion Ratio Lower Upper
 57 100
 41 55.4 26.2 39.2#
 56 52.6 25.5 38.3#

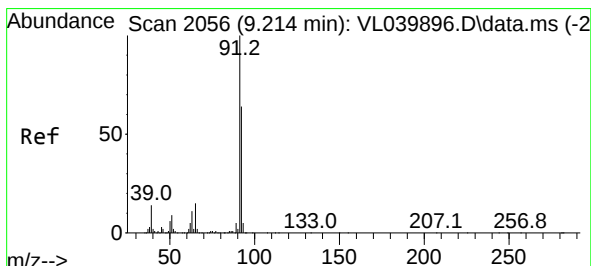
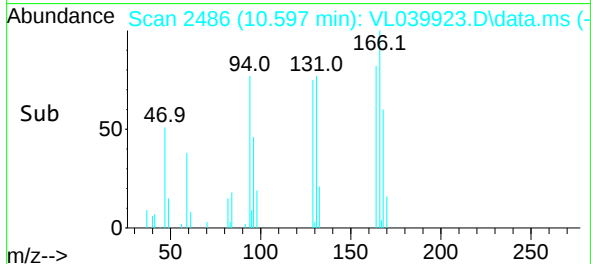
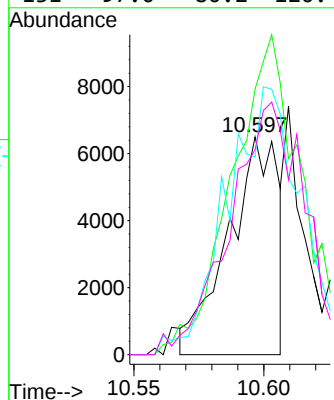
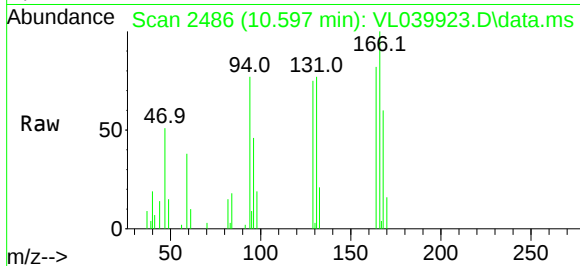




#52
Tetrachloroethene
Concen: 0.096 ppbv
RT: 10.597 min Scan# 2491
Delta R.T. 0.010 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

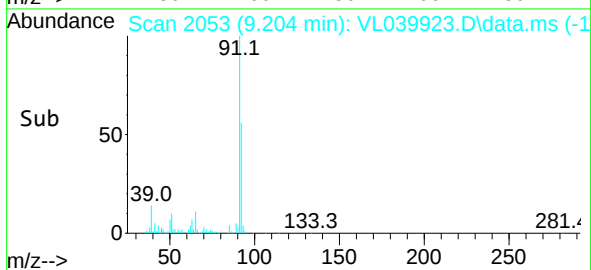
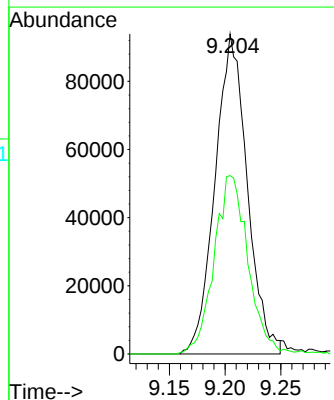
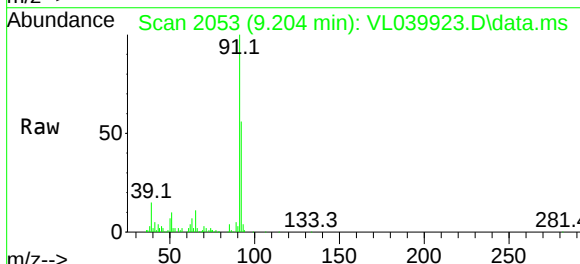
Instrument :
MSVOA_L
ClientSampleId :
IA1

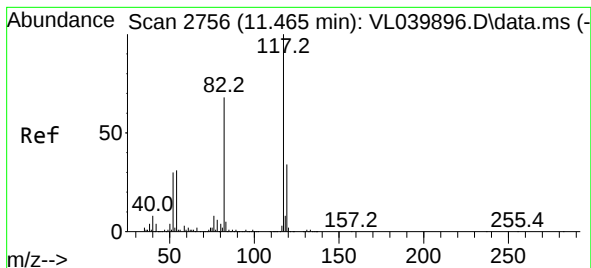
Tgt Ion:164	Resp:	8649
Ion Ratio	Lower	Upper
164	100	
166	122.8	98.3 147.5
129	94.3	79.7 119.5
131	97.0	80.2 120.4



#53
Toluene
Concen: 0.686 ppbv
RT: 9.204 min Scan# 2053
Delta R.T. 0.013 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

Tgt Ion: 91	Resp:	188557
Ion Ratio	Lower	Upper
91	100	
92	59.2	49.8 74.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.452 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL039923.D

Acq: 22 Nov 2022 19:29

Instrument :

MSVOA_L

ClientSampleId :

IA1

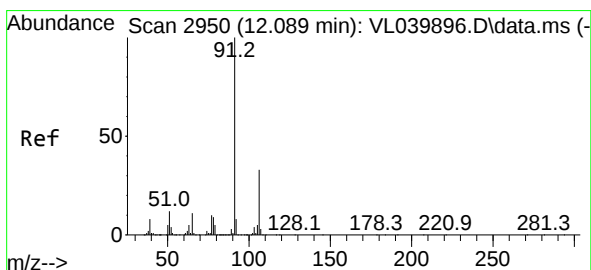
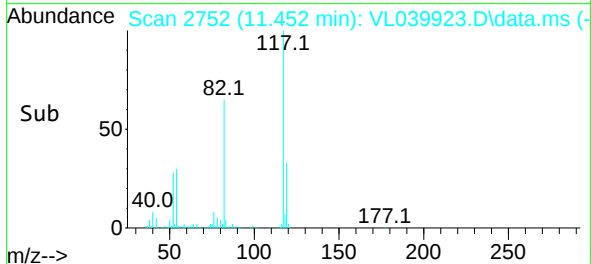
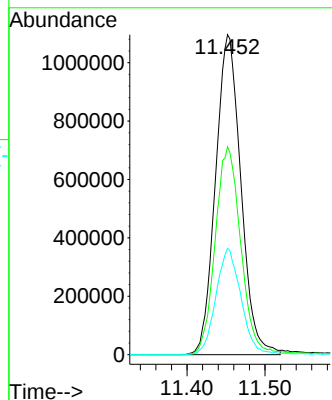
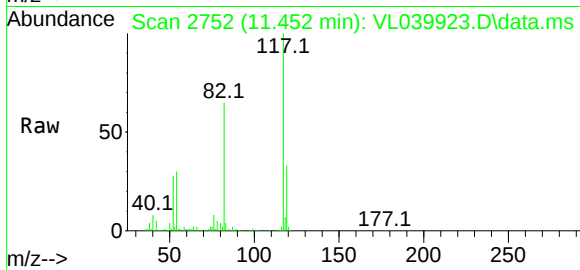
Tgt Ion:117 Resp: 2480802

Ion Ratio Lower Upper

117 100

82 66.1 52.3 78.5

119 32.9 25.7 38.5



#58

Ethyl Benzene

Concen: 0.059 ppbv

RT: 12.079 min Scan# 2947

Delta R.T. 0.016 min

Lab File: VL039923.D

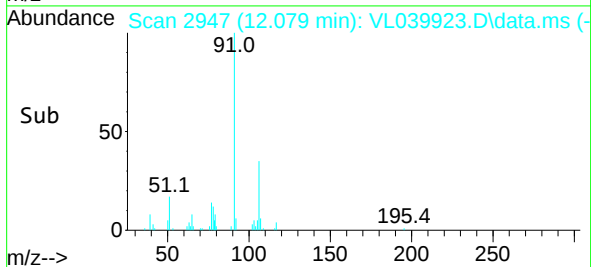
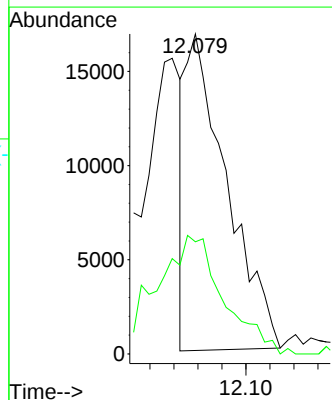
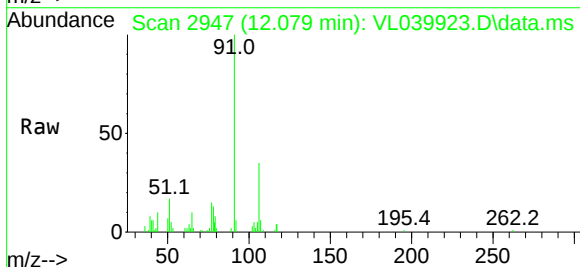
Acq: 22 Nov 2022 19:29

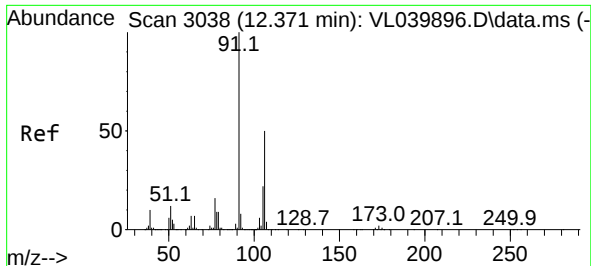
Tgt Ion: 91 Resp: 19984

Ion Ratio Lower Upper

91 100

106 35.7 26.1 39.1





#59

m/p-Xylene

Concen: 0.093 ppbv

RT: 12.359 min Scan# 3038

Delta R.T. 0.013 min

Lab File: VL039923.D

Acq: 22 Nov 2022 19:29

Instrument :

MSVOA_L

ClientSampleId :

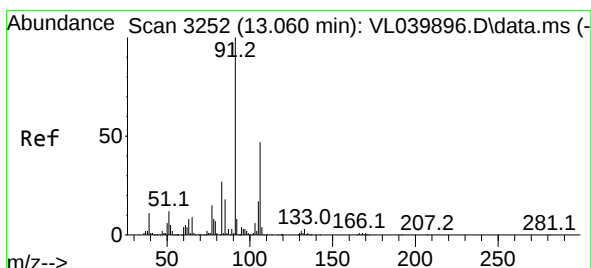
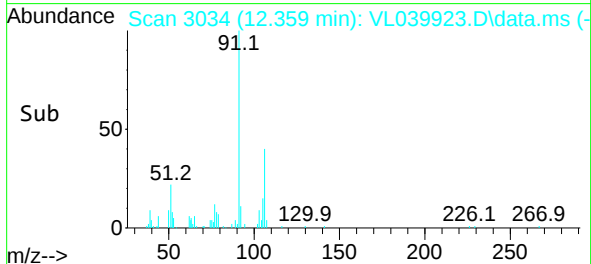
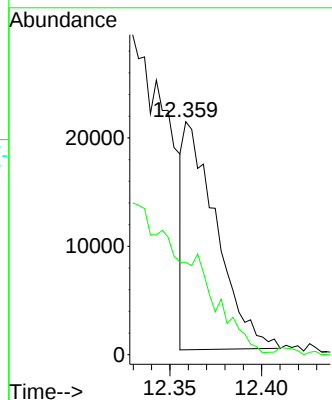
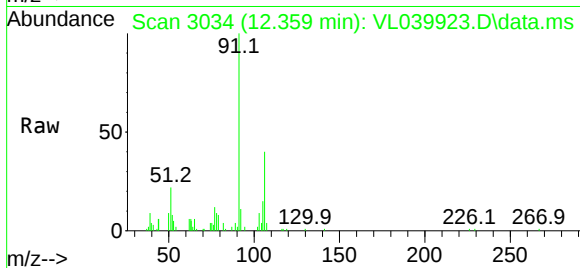
IA1

Tgt Ion: 91 Resp: 26078

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.6#



#60

o-Xylene

Concen: 0.116 ppbv

RT: 13.047 min Scan# 3248

Delta R.T. 0.010 min

Lab File: VL039923.D

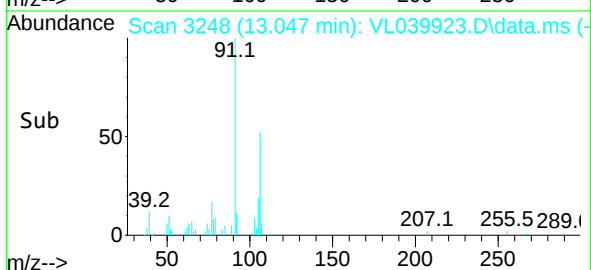
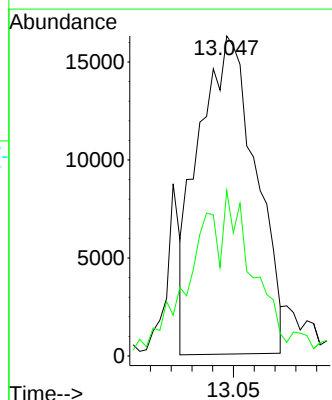
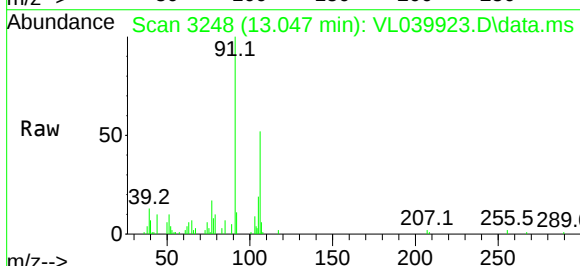
Acq: 22 Nov 2022 19:29

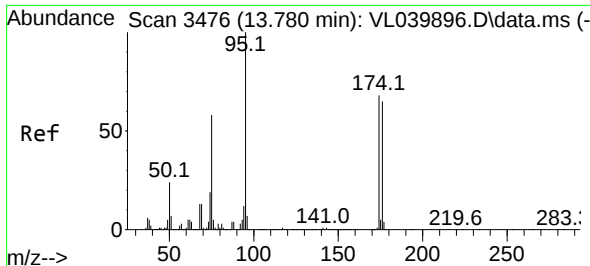
Tgt Ion: 91 Resp: 31039

Ion Ratio Lower Upper

91 100

106 59.0 23.2 69.6

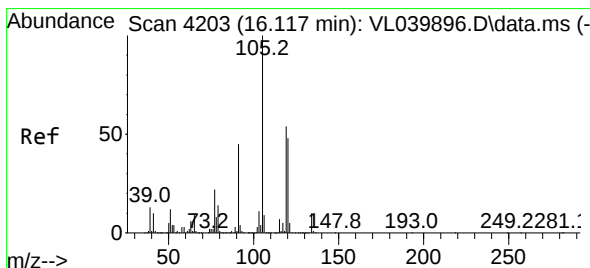
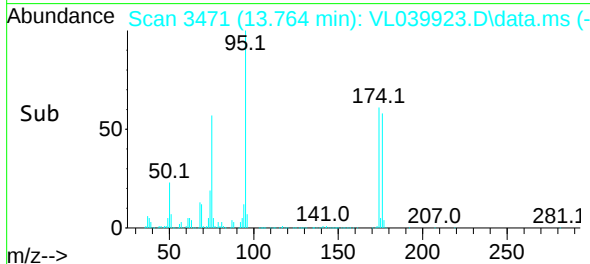
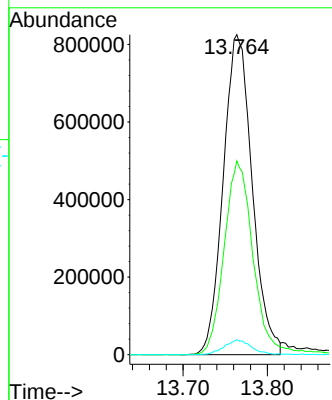
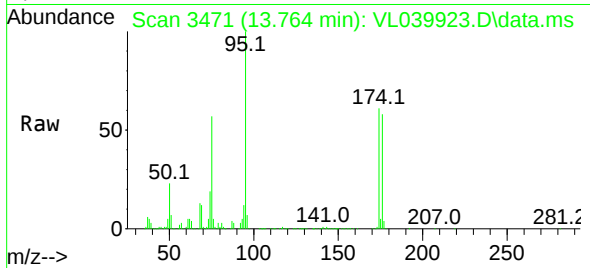




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.371 ppbv
 RT: 13.764 min Scan# 3476
 Delta R.T. 0.010 min
 Lab File: VL039923.D
 Acq: 22 Nov 2022 19:29

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion: 95 Resp: 1965234
 Ion Ratio Lower Upper
 95 100
 174 61.4 53.7 80.5
 175 4.5 4.0 6.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.046 ppbv
 RT: 16.104 min Scan# 4199
 Delta R.T. 0.013 min
 Lab File: VL039923.D
 Acq: 22 Nov 2022 19:29

Tgt Ion: 105 Resp: 13326
 Ion Ratio Lower Upper
 105 100
 120 23.9 38.7 58.1#
 91 2.3 36.4 54.6#
 77 12.0 17.4 26.0#

