

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101022\
 Data File : VL039706.D
 Acq On : 10 Oct 2022 21:37
 Operator : SY/AP
 Sample : N5065-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Oct 11 07:22:12 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)

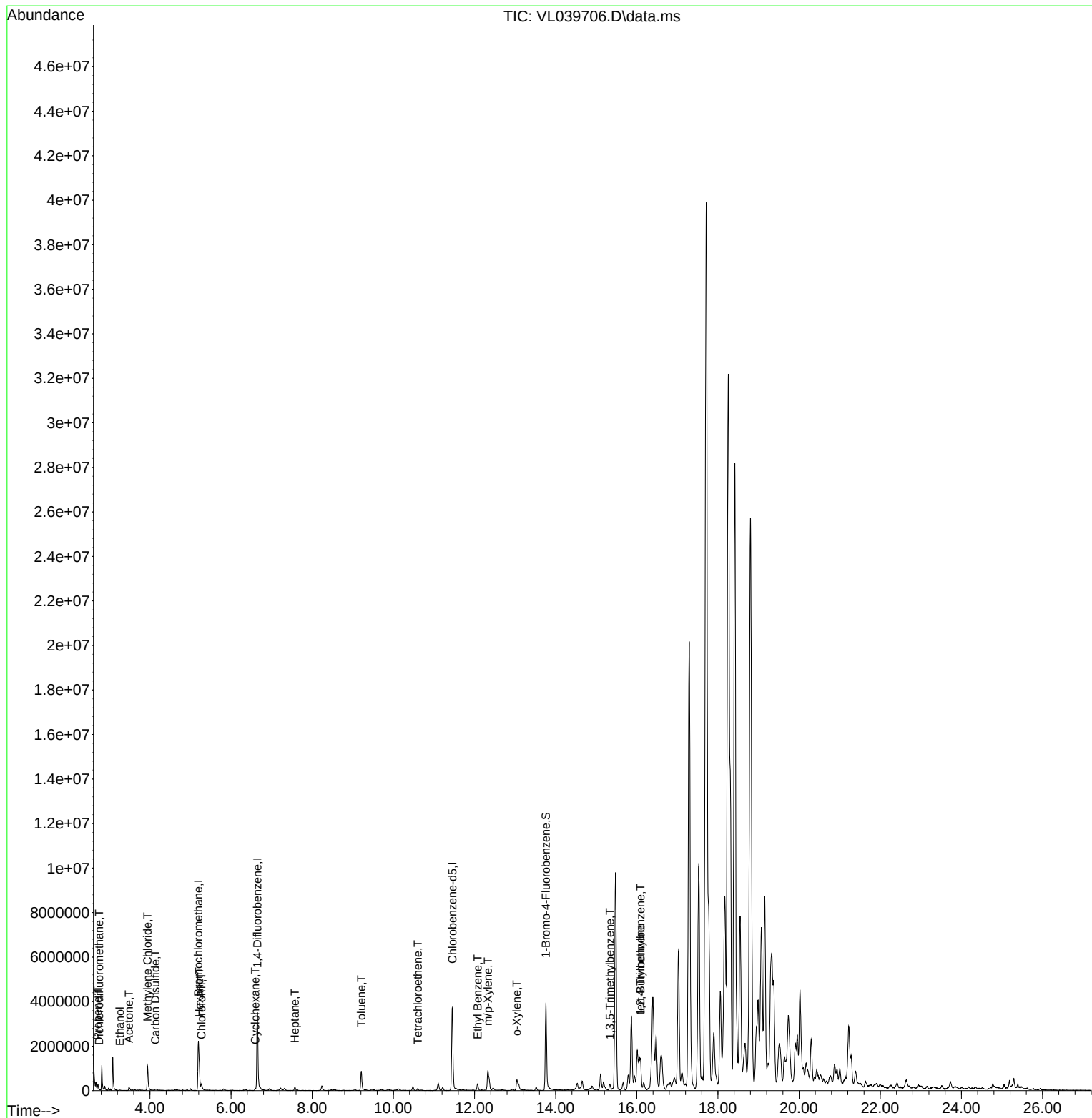
Internal Standards						
1) Bromochloromethane	5.195	49	1067059	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.648	114	2810852	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.452	117	2532152	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1937801	10.252	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.500%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	12361m	0.100	ppbv	
9) Propene	2.716	41	56336m	0.974	ppbv	
10) Heptane	7.574	43	65284	0.484	ppbv	93
13) Ethanol	3.260	45	27460m	6.232	ppbv	
15) Acetone	3.485	43	177065	1.491	ppbv	97
20) Methylene Chloride	3.941	84	396925	7.230	ppbv #	94
26) Hexane	5.218	57	360580	3.282	ppbv #	40
27) Carbon Disulfide	4.134	76	69703	0.604	ppbv #	92
29) Chloroform	5.272	83	156105	0.984	ppbv	92
30) Cyclohexane	6.600	84	25795m	0.303	ppbv	
52) Tetrachloroethene	10.603	164	19032m	0.232	ppbv	
53) Toluene	9.211	91	696352	2.913	ppbv	100
58) Ethyl Benzene	12.079	91	267976	0.918	ppbv	93
59) m/p-Xylene	12.330	91	979292	3.769	ppbv	95
60) o-Xylene	13.040	91	343660	1.385	ppbv	96
65) tert-Butylbenzene	16.089	119	112748m	0.342	ppbv	
73) 1,3,5-Trimethylbenzene	15.339	105	201583	0.778	ppbv	94
74) 1,2,4-Trimethylbenzene	16.092	105	965204	3.322	ppbv #	70

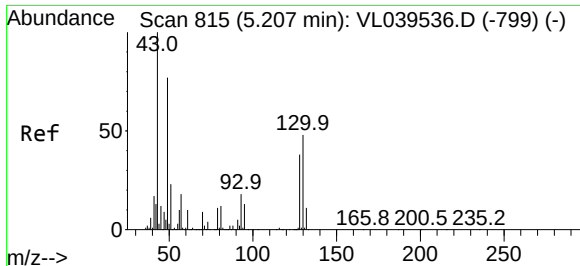
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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
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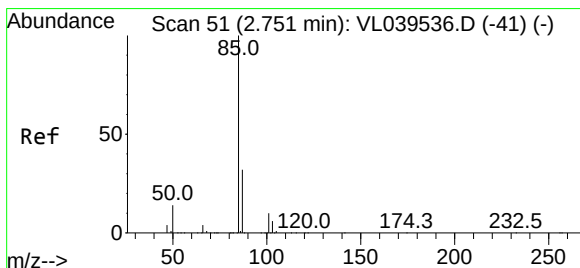
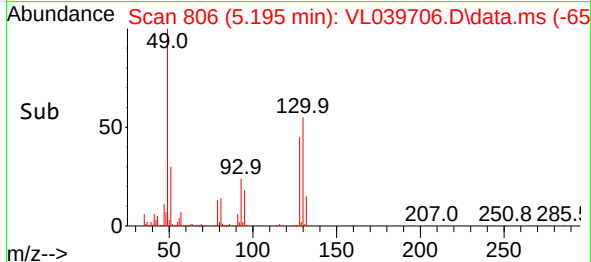
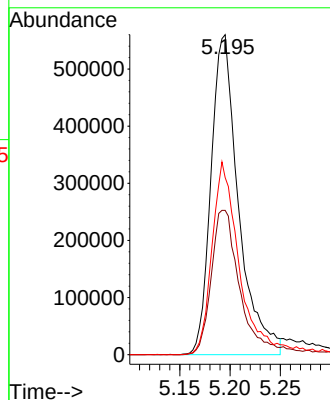
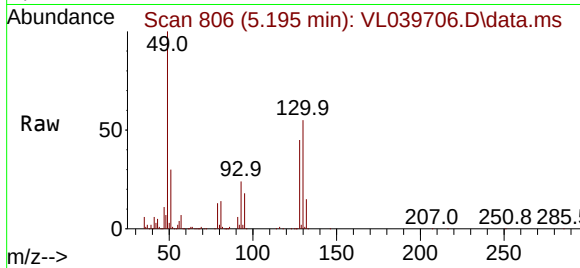




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. -0.012 min
 Lab File: VL039706.D
 Acq: 10 Oct 2022 21:37

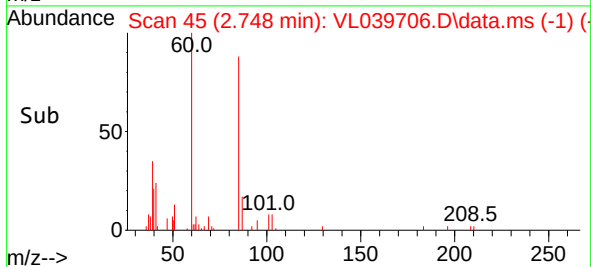
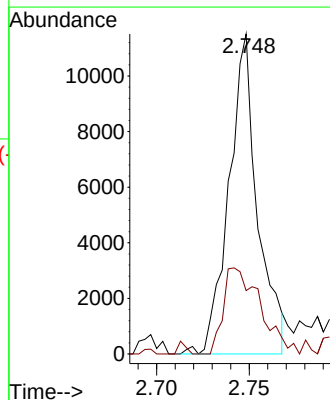
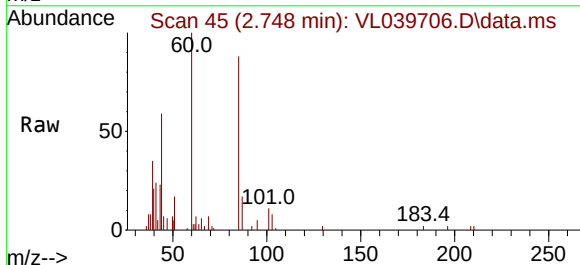
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

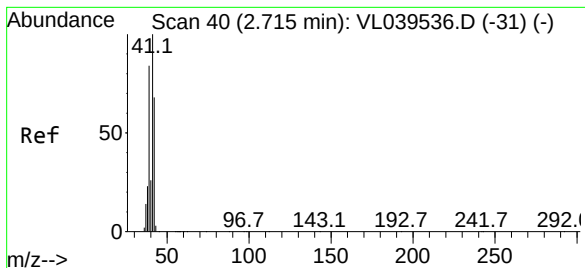
Tgt Ion: 49 Resp: 1067059
 Ion Ratio Lower Upper
 49 100
 128 49.3 26.7 80.0
 130 62.5 34.3 102.8



#2
 Dichlorodifluoromethane
 Concen: 0.100 ppbv m
 RT: 2.748 min Scan# 45
 Delta R.T. -0.002 min
 Lab File: VL039706.D
 Acq: 10 Oct 2022 21:37

Tgt Ion: 85 Resp: 12361
 Ion Ratio Lower Upper
 85 100
 87 19.8 26.7 40.1#





#9

Propene

Concen: 0.974 ppbv m

RT: 2.716 min Scan# 3

Delta R.T. 0.001 min

Lab File: VL039706.D

Acq: 10 Oct 2022 21:37

Instrument :

MSVOA_L

ClientSampleId :

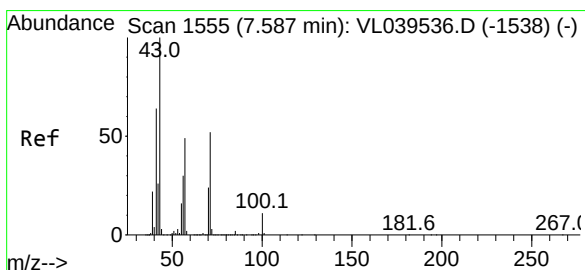
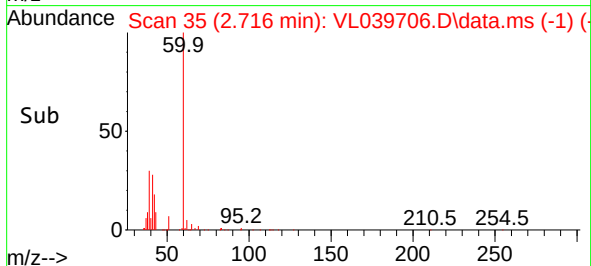
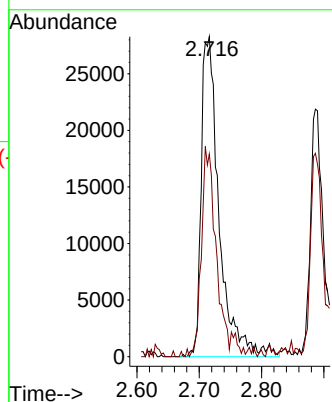
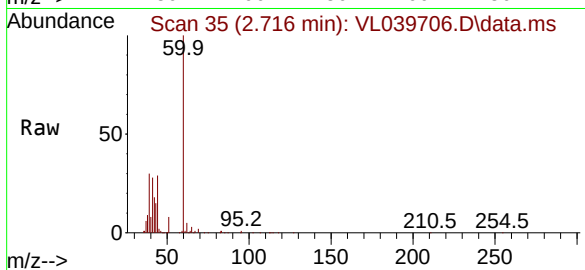
SV1

Tgt Ion: 41 Resp: 56336

Ion Ratio Lower Upper

41 100

42 11.8 55.2 82.8#



#10

Heptane

Concen: 0.484 ppbv

RT: 7.574 min Scan# 1546

Delta R.T. -0.012 min

Lab File: VL039706.D

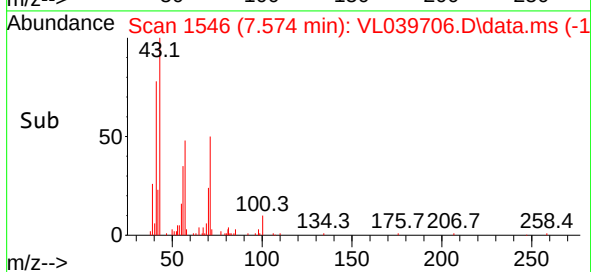
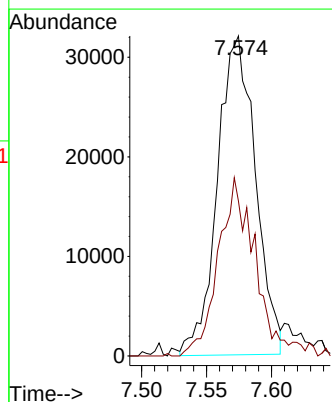
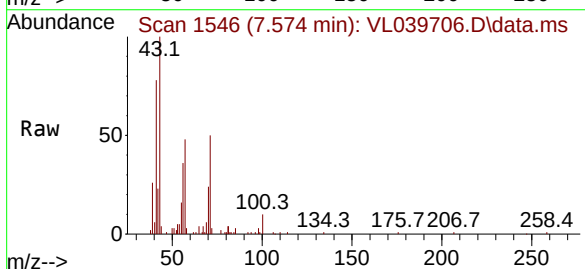
Acq: 10 Oct 2022 21:37

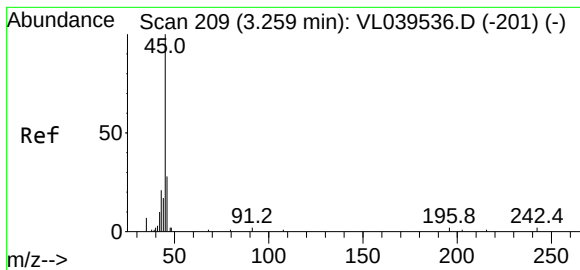
Tgt Ion: 43 Resp: 65284

Ion Ratio Lower Upper

43 100

57 55.1 40.5 60.7

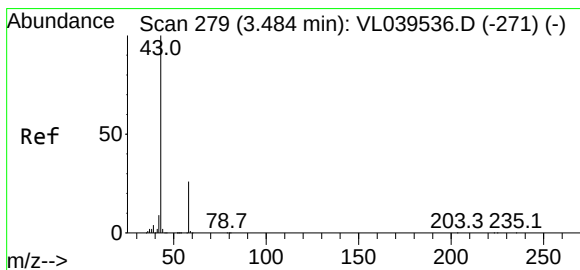
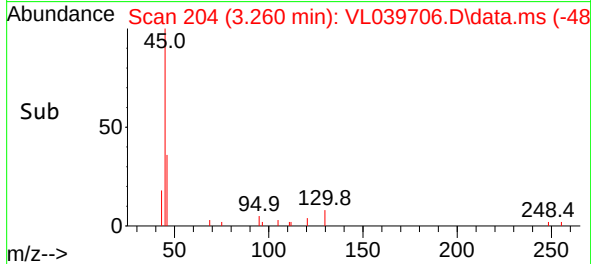
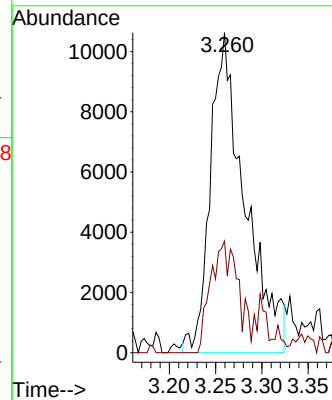
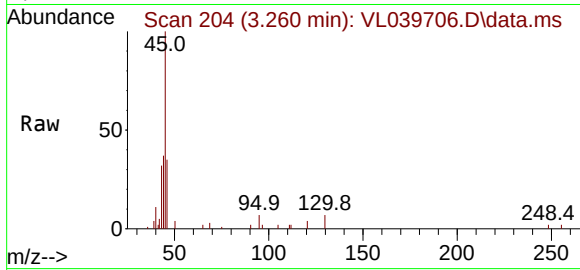




#13
Ethanol
Concen: 6.232 ppbv m
RT: 3.260 min Scan# 209
Delta R.T. 0.001 min
Lab File: VL039706.D
Acq: 10 Oct 2022 21:37

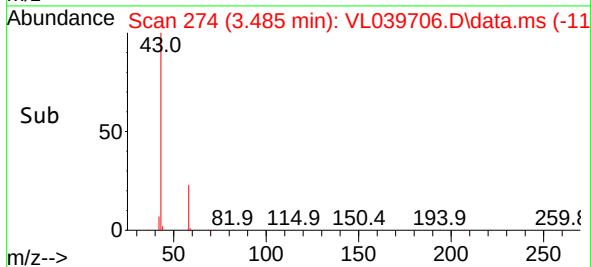
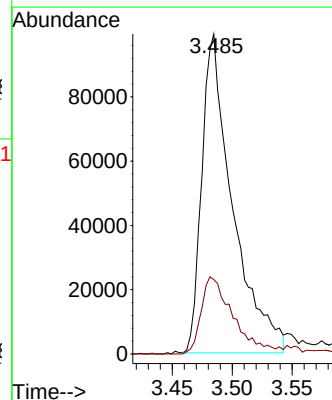
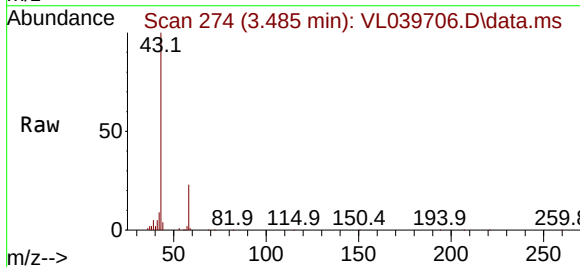
Instrument :
MSVOA_L
ClientSampleId :
SV1

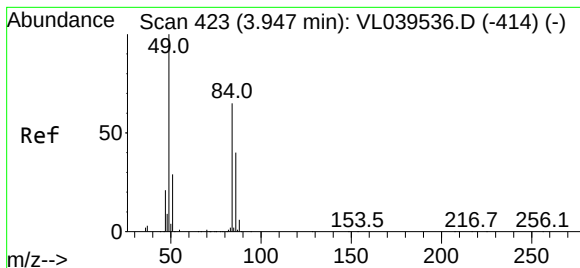
Tgt Ion: 45 Resp: 27460
Ion Ratio Lower Upper
45 100
46 35.2 22.8 91.2



#15
Acetone
Concen: 1.491 ppbv
RT: 3.485 min Scan# 274
Delta R.T. 0.001 min
Lab File: VL039706.D
Acq: 10 Oct 2022 21:37

Tgt Ion: 43 Resp: 177065
Ion Ratio Lower Upper
43 100
58 24.9 21.0 31.6



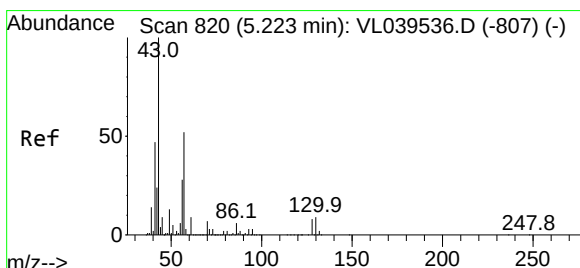
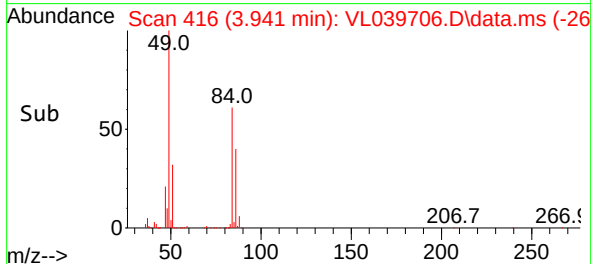
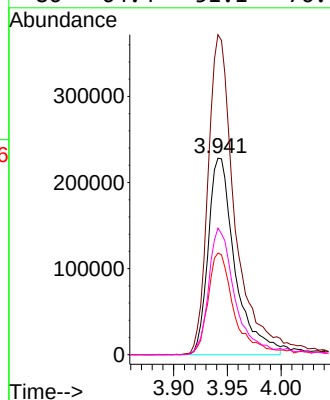
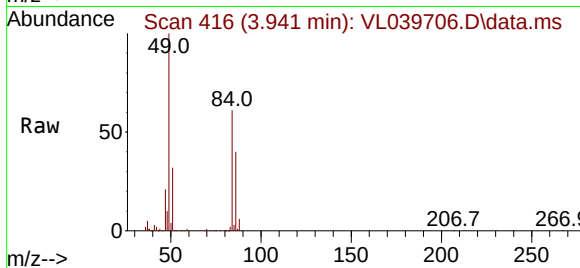


#20
Methylene Chloride
Concen: 7.230 ppbv
RT: 3.941 min Scan# 416
Delta R.T. -0.006 min
Lab File: VL039706.D
Acq: 10 Oct 2022 21:37

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 84 Resp: 396925

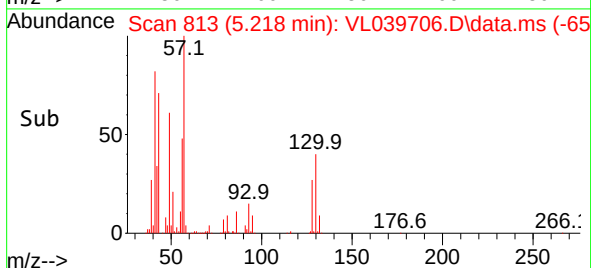
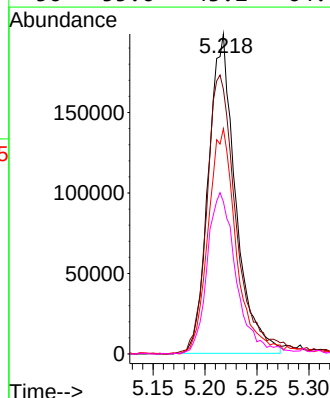
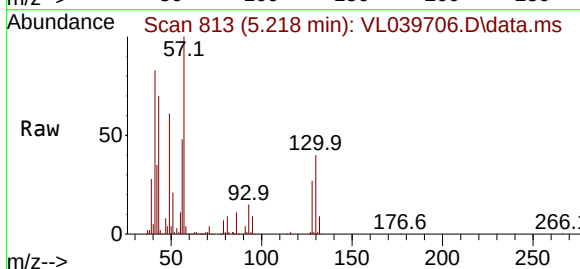
Ion	Ratio	Lower	Upper
84	100		
49	162.8	123.1	184.7
51	51.6	34.4	51.6#
86	64.4	51.1	76.7

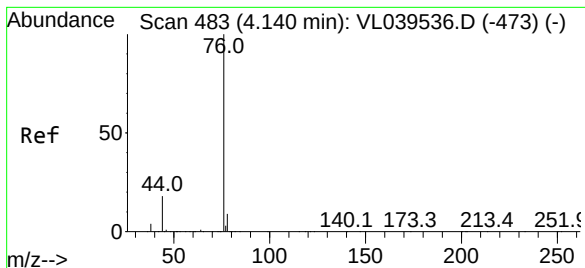


#26
Hexane
Concen: 3.282 ppbv
RT: 5.218 min Scan# 813
Delta R.T. -0.006 min
Lab File: VL039706.D
Acq: 10 Oct 2022 21:37

Tgt Ion: 57 Resp: 360580

Ion	Ratio	Lower	Upper
57	100		
41	96.0	76.9	115.3
43	75.4	191.0	286.6#
56	55.6	43.2	64.8





#27

Carbon Disulfide

Concen: 0.604 ppbv

RT: 4.134 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL039706.D

Acq: 10 Oct 2022 21:37

Instrument :

MSVOA_L

ClientSampleId :

SV1

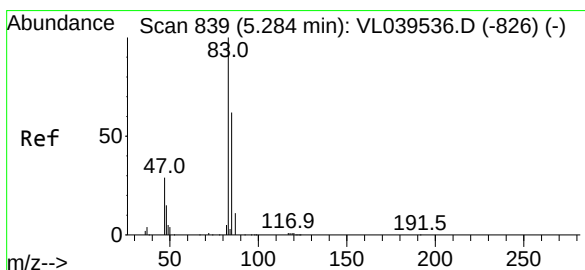
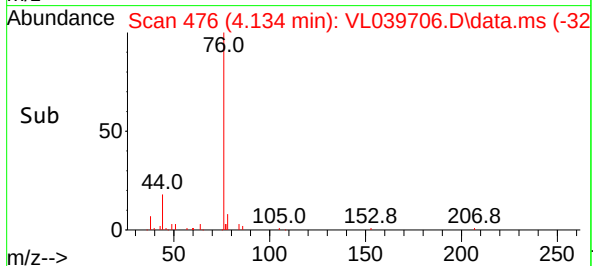
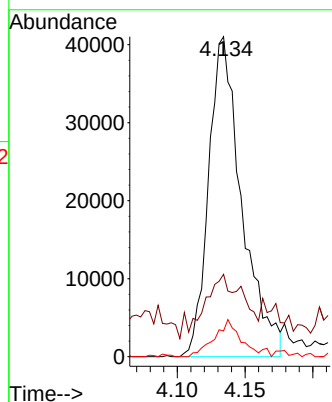
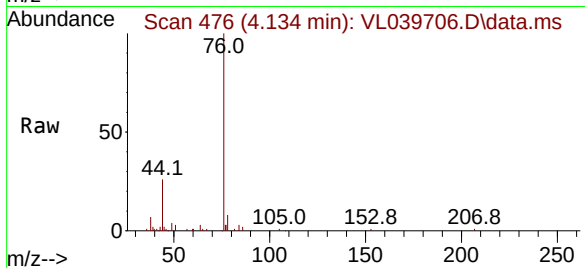
Tgt Ion: 76 Resp: 69703

Ion Ratio Lower Upper

76 100

44 22.9 14.6 21.8#

78 10.7 7.8 11.6



#29

Chloroform

Concen: 0.984 ppbv

RT: 5.272 min Scan# 830

Delta R.T. -0.012 min

Lab File: VL039706.D

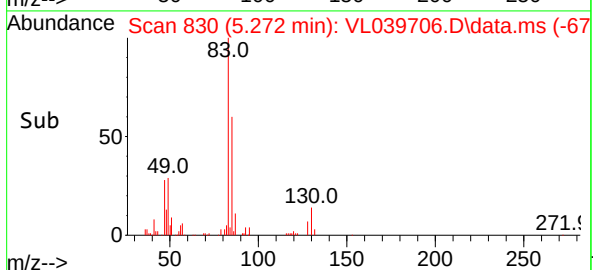
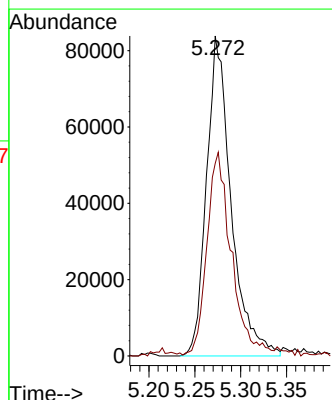
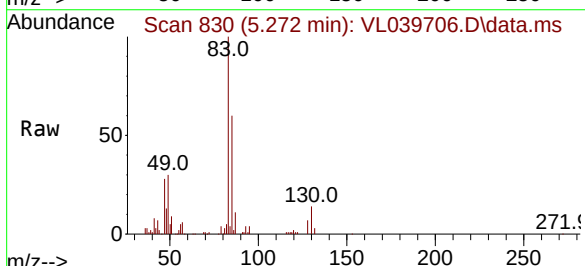
Acq: 10 Oct 2022 21:37

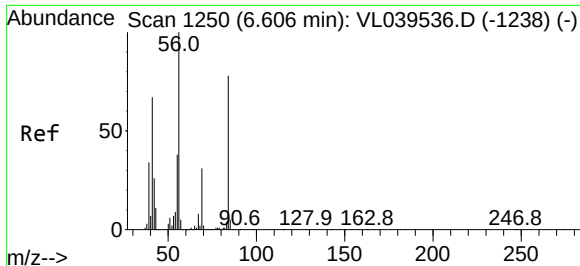
Tgt Ion: 83 Resp: 156105

Ion Ratio Lower Upper

83 100

85 59.3 52.8 79.2





#30

Cyclohexane

Concen: 0.303 ppbv m

RT: 6.600 min Scan# 1

Delta R.T. -0.006 min

Lab File: VL039706.D

Acq: 10 Oct 2022 21:37

Instrument :

MSVOA_L

ClientSampleId :

SV1

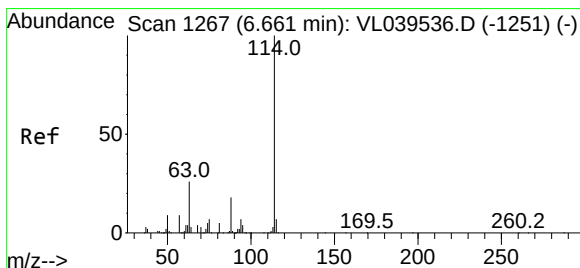
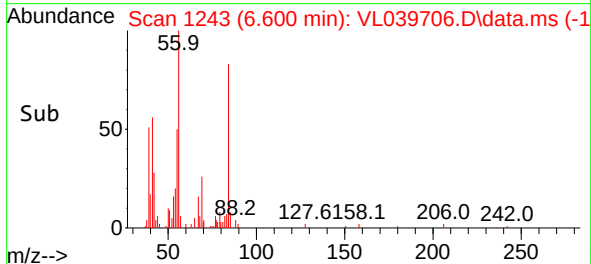
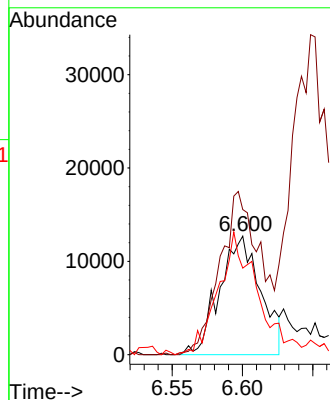
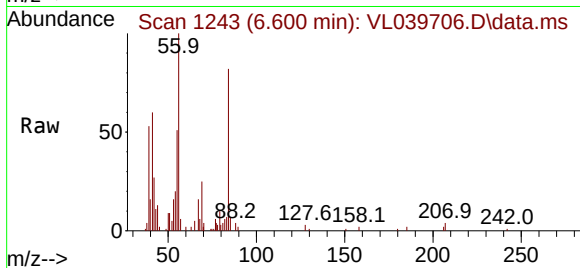
Tgt Ion: 84 Resp: 25795

Ion Ratio Lower Upper

84 100

56 0.0 107.7 161.5#

41 0.0 67.7 101.5#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 1258

Delta R.T. -0.012 min

Lab File: VL039706.D

Acq: 10 Oct 2022 21:37

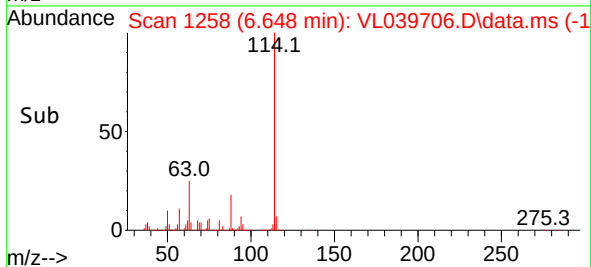
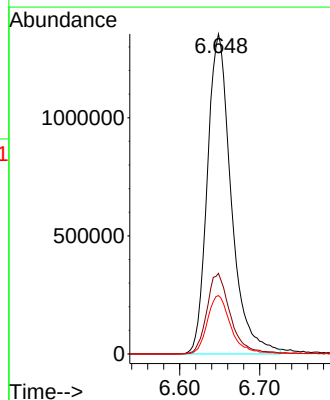
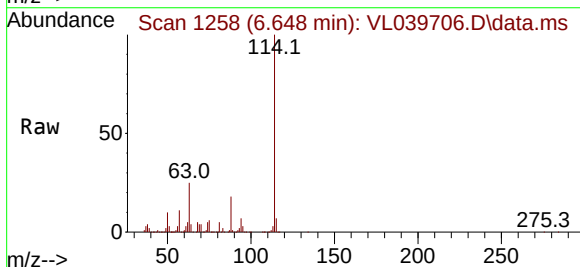
Tgt Ion: 114 Resp: 2810852

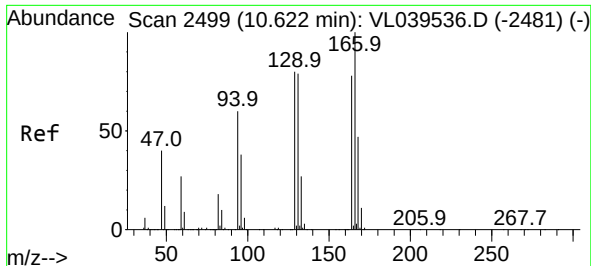
Ion Ratio Lower Upper

114 100

63 25.2 20.2 30.4

88 18.2 14.5 21.7

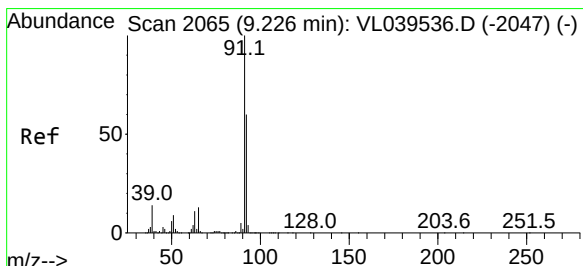
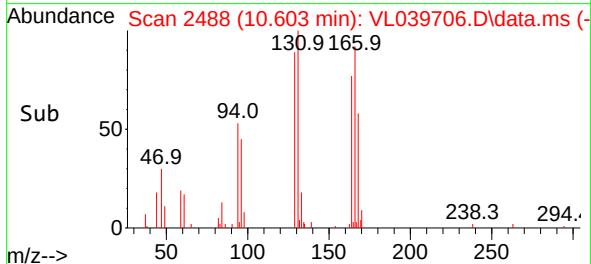
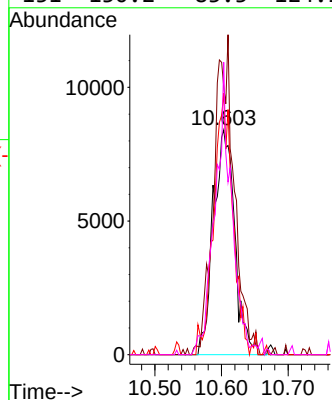
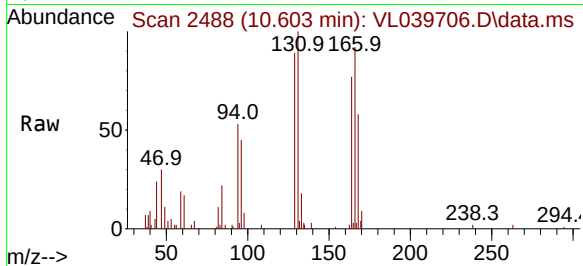




#52
Tetrachloroethene
Concen: 0.232 ppbv m
RT: 10.603 min Scan# 2499
Delta R.T. -0.018 min
Lab File: VL039706.D
Acq: 10 Oct 2022 21:37

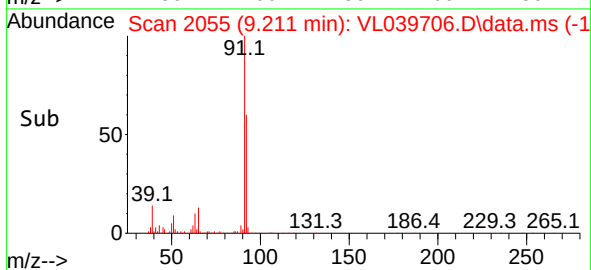
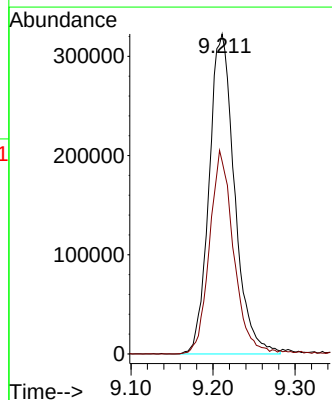
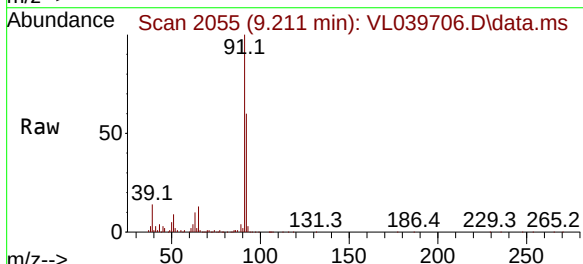
Instrument :
MSVOA_L
ClientSampleId :
SV1

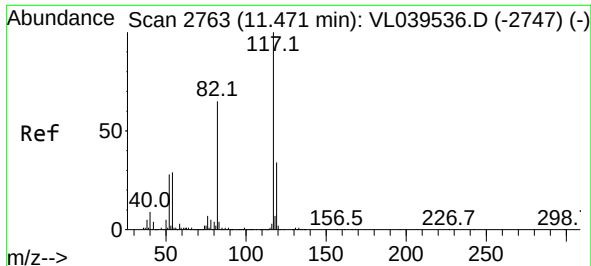
Tgt Ion:164 Resp: 19032
Ion Ratio Lower Upper
164 100
166 119.3 102.2 153.2
129 116.4 85.8 128.8
131 130.2 83.3 124.9#



#53
Toluene
Concen: 2.913 ppbv
RT: 9.211 min Scan# 2055
Delta R.T. -0.015 min
Lab File: VL039706.D
Acq: 10 Oct 2022 21:37

Tgt Ion: 91 Resp: 696352
Ion Ratio Lower Upper
91 100
92 60.0 48.2 72.2

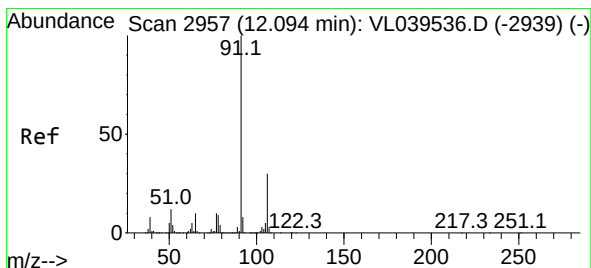
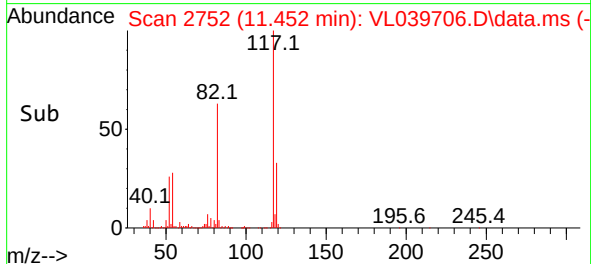
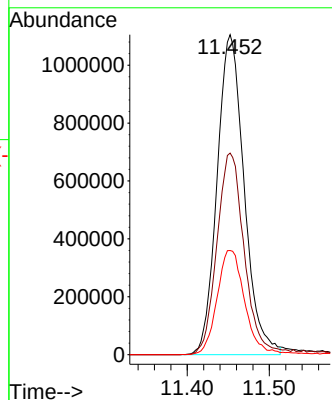
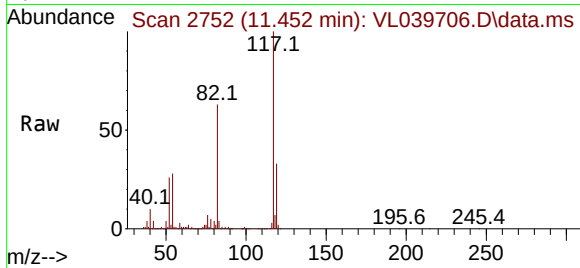




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.018 min
Lab File: VL039706.D
Acq: 10 Oct 2022 21:37

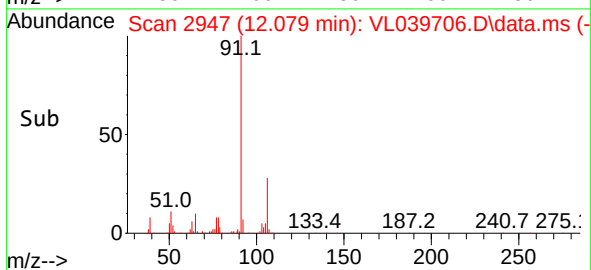
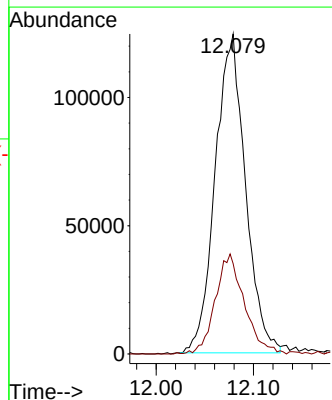
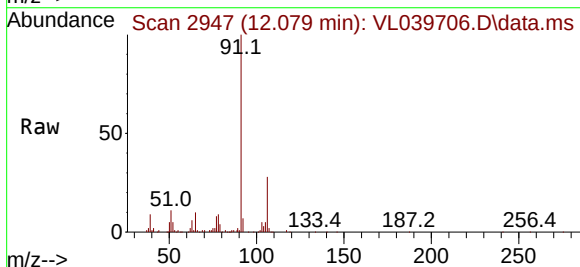
Instrument :
MSVOA_L
ClientSampleId :
SV1

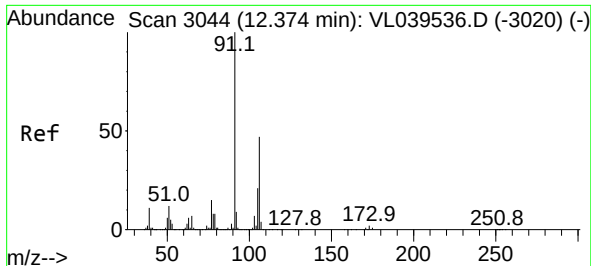
Tgt Ion:117 Resp: 2532152
Ion Ratio Lower Upper
117 100
82 65.8 50.8 76.2
119 33.8 24.1 36.1



#58
Ethyl Benzene
Concen: 0.918 ppbv
RT: 12.079 min Scan# 2947
Delta R.T. -0.015 min
Lab File: VL039706.D
Acq: 10 Oct 2022 21:37

Tgt Ion: 91 Resp: 267976
Ion Ratio Lower Upper
91 100
106 27.8 25.4 38.0





#59

m/p-Xylene

Concen: 3.769 ppbv

RT: 12.330 min Scan# 3044

Delta R.T. -0.044 min

Lab File: VL039706.D

Acq: 10 Oct 2022 21:37

Instrument :

MSVOA_1

ClientSampleId :

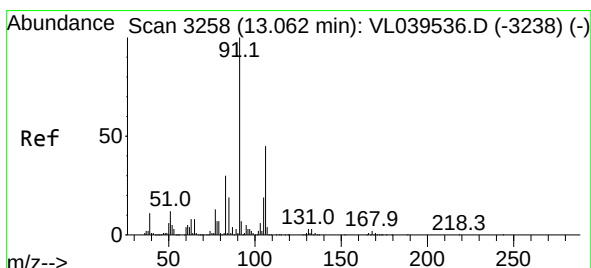
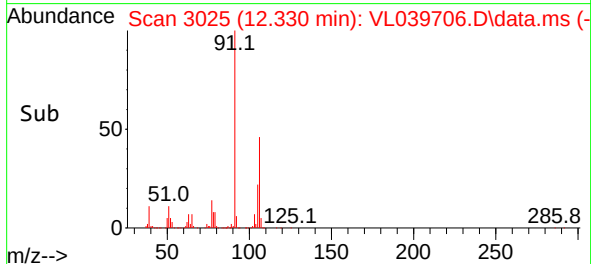
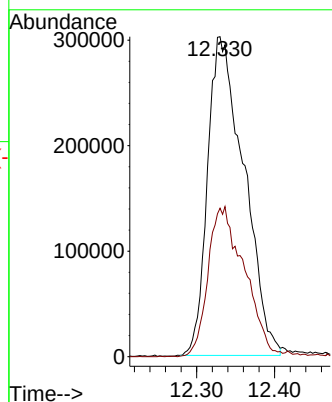
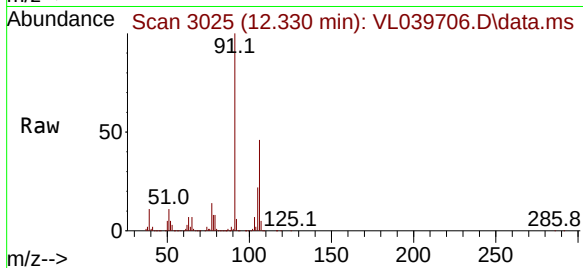
SV1

Tgt Ion: 91 Resp: 979292

Ion Ratio Lower Upper

91 100

106 47.6 35.4 53.2



#60

o-Xylene

Concen: 1.385 ppbv

RT: 13.040 min Scan# 3246

Delta R.T. -0.022 min

Lab File: VL039706.D

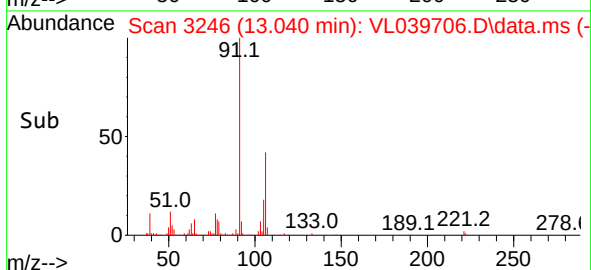
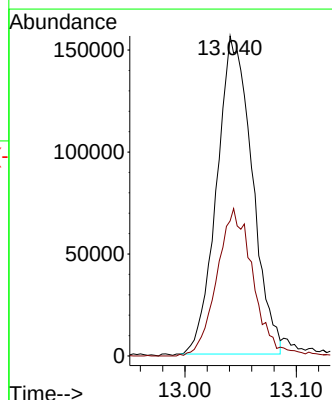
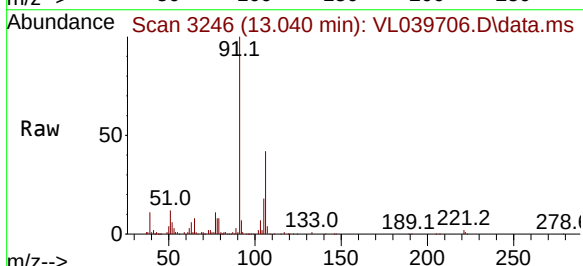
Acq: 10 Oct 2022 21:37

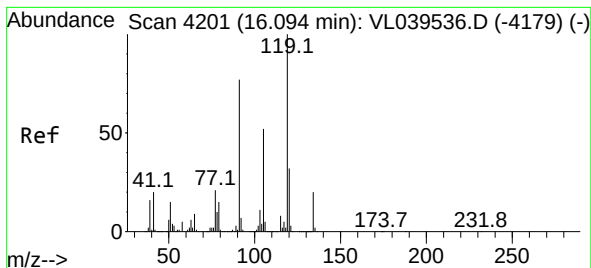
Tgt Ion: 91 Resp: 343660

Ion Ratio Lower Upper

91 100

106 47.8 22.4 67.3





#65

tert-Butylbenzene

Concen: 0.342 ppbv

RT: 16.089 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL039706.D

Acq: 10 Oct 2022 21:37

Instrument :

MSVOA_L

ClientSampleId :

SV1

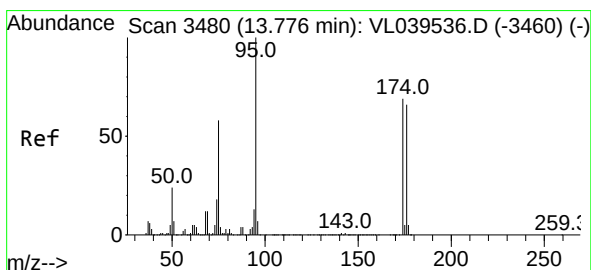
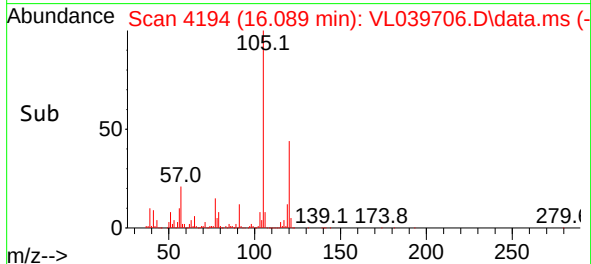
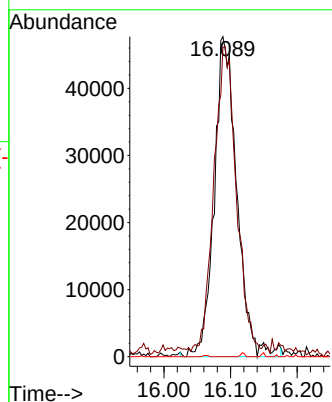
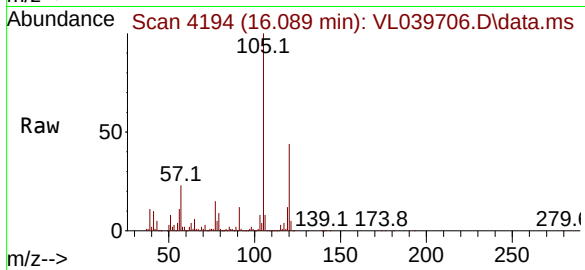
Tgt Ion:119 Resp: 112748

Ion Ratio Lower Upper

119 100

91 97.3 63.4 95.2#

134 0.0 15.9 23.9#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.252 ppbv

RT: 13.761 min Scan# 3470

Delta R.T. -0.015 min

Lab File: VL039706.D

Acq: 10 Oct 2022 21:37

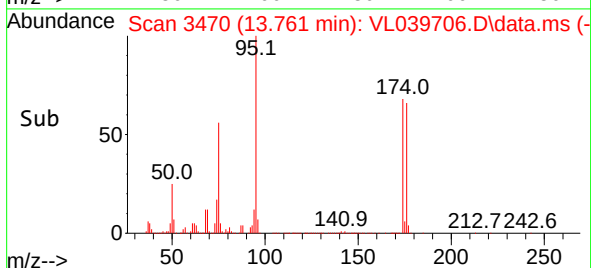
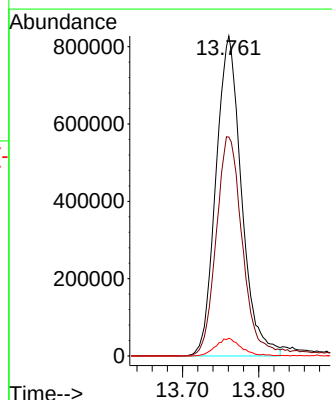
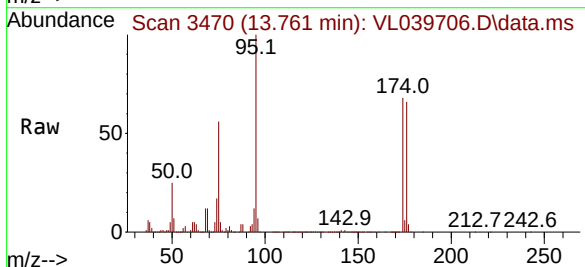
Tgt Ion: 95 Resp: 1937801

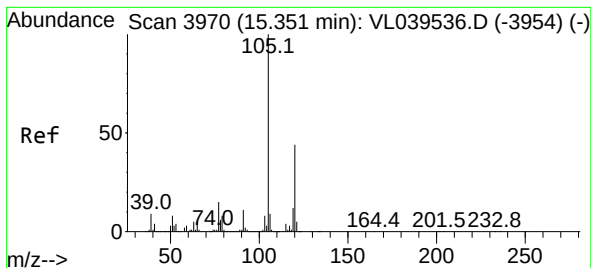
Ion Ratio Lower Upper

95 100

174 72.9 55.9 83.9

175 5.5 4.2 6.4





#73

1,3,5-Trimethylbenzene

Concen: 0.778 ppbv

RT: 15.339 min Scan# 3970

Delta R.T. -0.012 min

Lab File: VL039706.D

Acq: 10 Oct 2022 21:37

Instrument :

MSVOA_L

ClientSampleId :

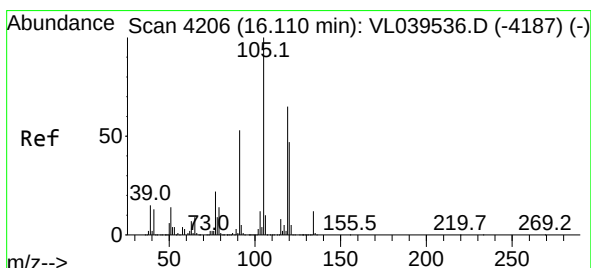
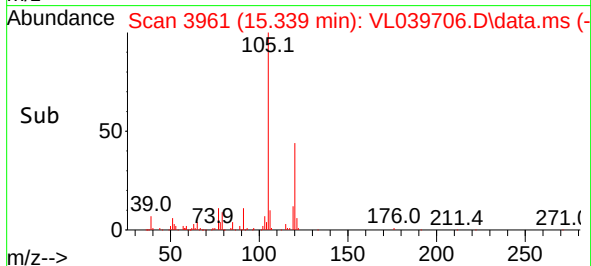
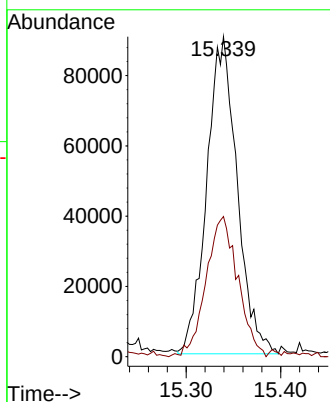
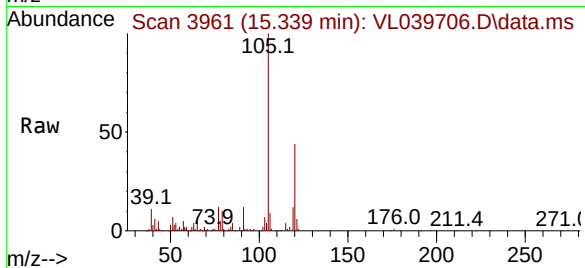
SV1

Tgt Ion:105 Resp: 201583

Ion Ratio Lower Upper

105 100

120 43.7 38.2 57.4



#74

1,2,4-Trimethylbenzene

Concen: 3.322 ppbv

RT: 16.092 min Scan# 4195

Delta R.T. -0.018 min

Lab File: VL039706.D

Acq: 10 Oct 2022 21:37

Tgt Ion:105 Resp: 965204

Ion Ratio Lower Upper

105 100

120 42.5 39.5 59.3

91 11.4 39.2 58.8#

77 14.0 17.2 25.8#

