

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110722\
 Data File : VL039835.D
 Acq On : 7 Nov 2022 11:43
 Operator : SY/AP
 Sample : N5409-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E062-1100

Quant Time: Nov 08 06:12:39 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 03 09:27:12 2022
 Response via : Initial Calibration

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

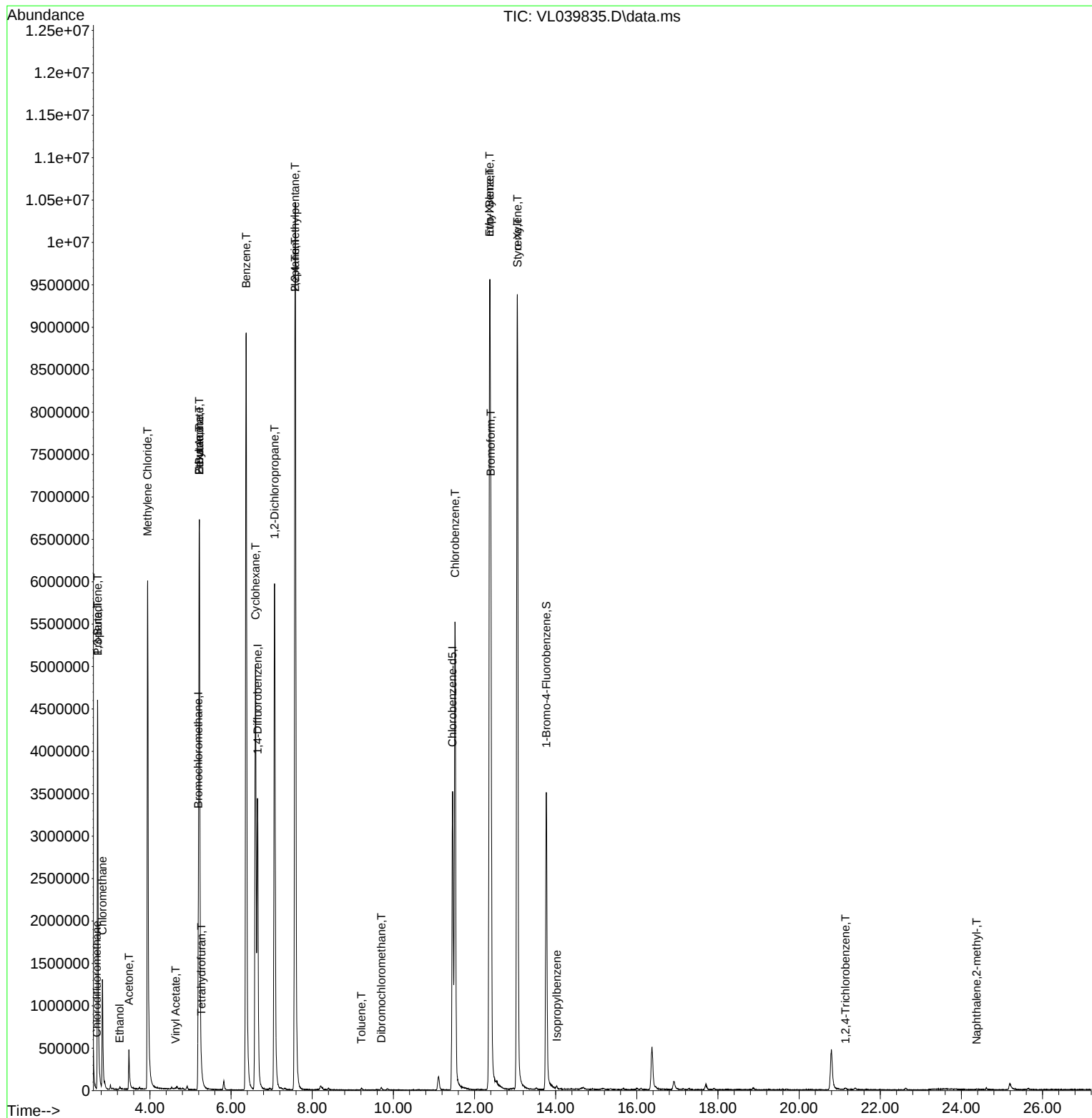
Internal Standards						
1) Bromochloromethane	5.195	49	971699	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2699491	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2411636	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1899895	10.525	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.300%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.690	51	5325	0.046	ppbv #	83
4) Chloromethane	2.829	50	1258353	17.446	ppbv	99
9) Propene	2.710	41	2203776	36.513	ppbv	100
10) Heptane	7.581	43	5625777	38.908	ppbv	98
13) Ethanol	3.256	45	11039	2.588	ppbv #	24
15) Acetone	3.481	43	505160	4.271	ppbv	99
16) 1,3-Butadiene	2.710	39	1811609	32.935	ppbv #	5
20) Methylene Chloride	3.944	84	2367722	55.957	ppbv	94
23) Vinyl Acetate	4.632	43	1510	0.032	ppbv #	75
25) Ethyl Acetate	5.218	43	2057847	8.447	ppbv #	76
26) Hexane	5.218	57	3049536	28.074	ppbv #	36
30) Cyclohexane	6.603	84	2043605	22.498	ppbv	92
34) 2-Butanone	5.218	43	2021939	18.156	ppbv #	54
36) Benzene	6.372	78	8542959	37.516	ppbv	93
39) 1,2-Dichloropropane	7.073	63	2498359	28.159	ppbv	96
41) Tetrahydrofuran	5.269	42	14029	0.151	ppbv #	36
44) 2,2,4-Trimethylpentane	7.581	57	2896351	7.535	ppbv #	44
48) Dibromochloromethane	9.703	129	9521	0.062	ppbv #	31
49) Bromoform	12.404	173	3611452	29.351	ppbv	99
53) Toluene	9.214	91	7985	0.031	ppbv #	5
57) Chlorobenzene	11.520	112	3663456	20.027	ppbv	95
58) Ethyl Benzene	12.375	91	7345482	22.527	ppbv #	68
59) m/p-Xylene	12.375	91	7345482	26.986	ppbv	96
60) o-Xylene	13.056	91	8114559	31.466	ppbv	98
61) Styrene	13.060	104	182737	1.152	ppbv #	1
62) Isopropylbenzene	14.027	105	20503	0.055	ppbv #	83
80) Naphthalene,2-methyl-	24.374	142	5683	0.067	ppbv #	61
81) 1,2,4-Trichlorobenzene	21.146	180	3450	0.031	ppbv #	19

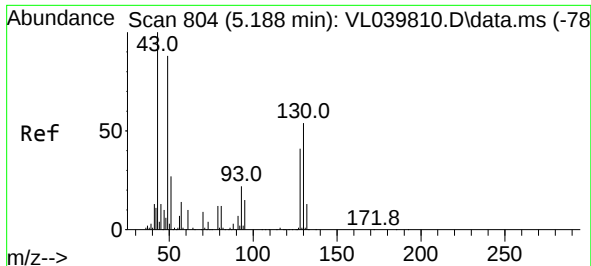
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Nov 03 09:27:12 2022
Response via : Initial Calibration

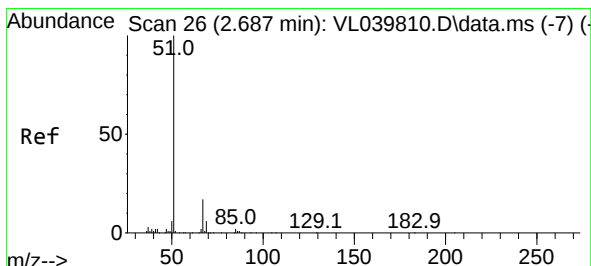
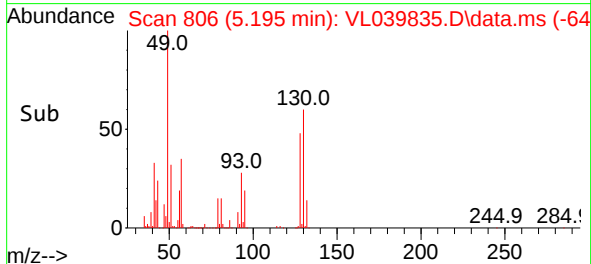
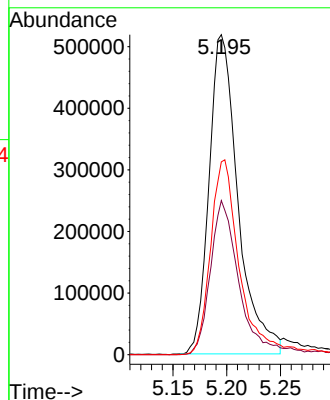
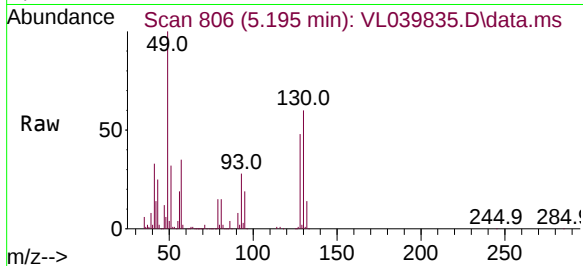




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

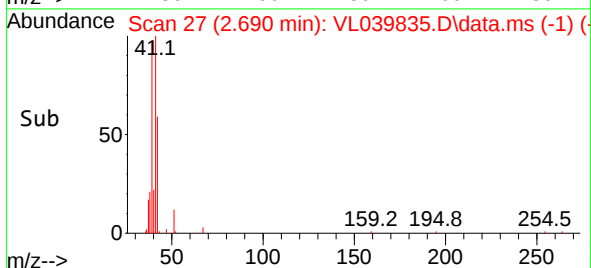
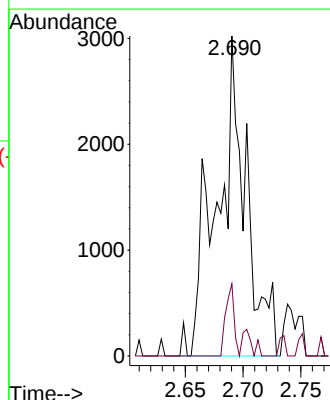
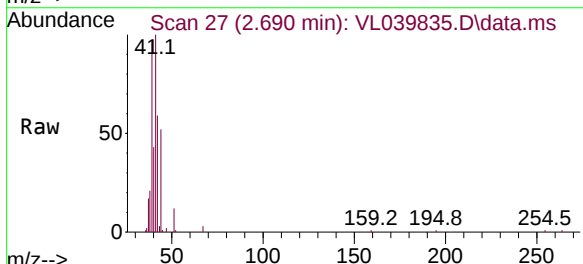
Instrument :
MSVOA_L
ClientSampleId :
E062-1100

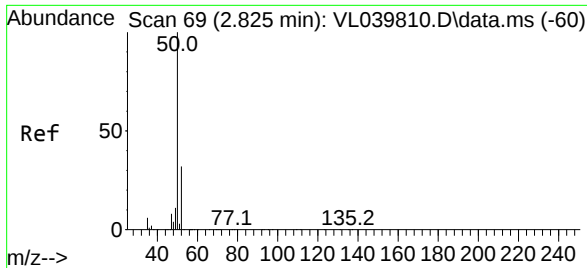
Tgt Ion: 49 Resp: 971699
Ion Ratio Lower Upper
49 100
128 49.7 24.6 73.6
130 63.5 31.1 93.2



#3
Chlorodifluoromethane
Concen: 0.046 ppbv
RT: 2.690 min Scan# 27
Delta R.T. 0.003 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

Tgt Ion: 51 Resp: 5325
Ion Ratio Lower Upper
51 100
67 9.1 13.2 19.8





#4
Chloromethane
Concen: 17.446 ppbv
RT: 2.829 min Scan# 70
Delta R.T. 0.003 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

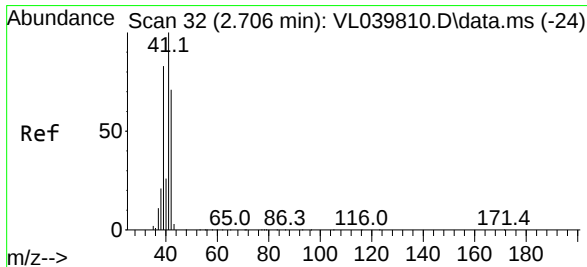
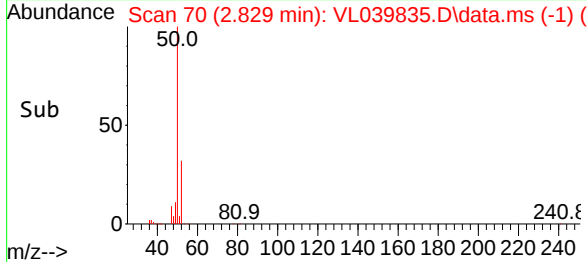
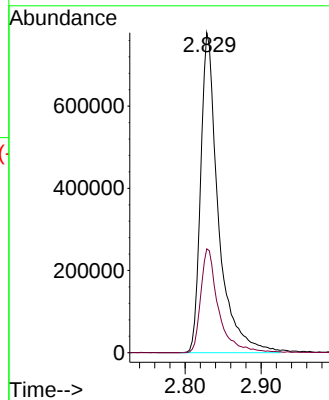
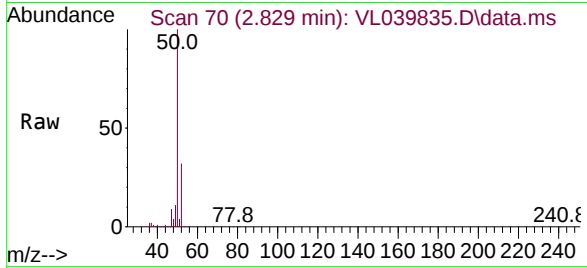
Instrument :

MSVOA_L

ClientSampleId :

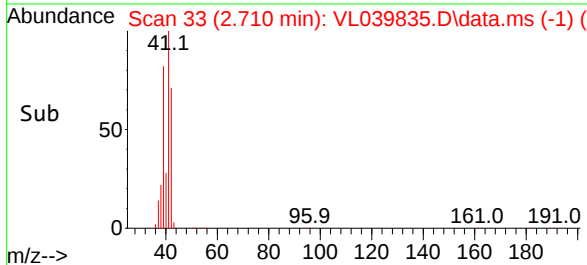
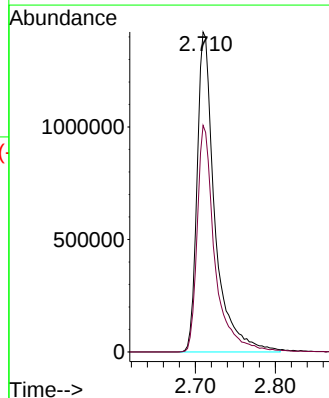
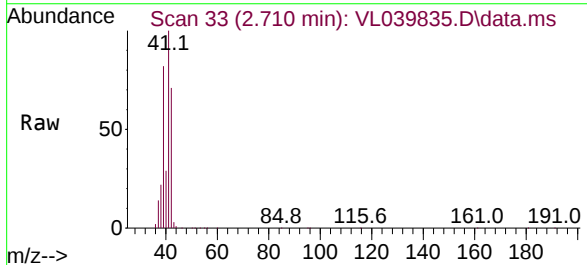
E062-1100

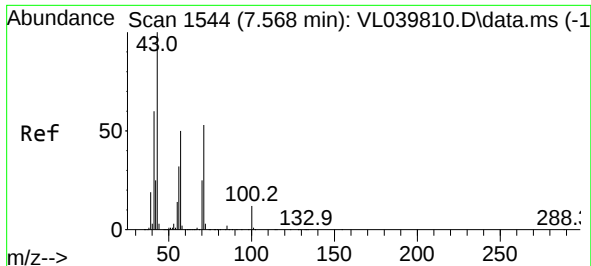
Tgt Ion: 50 Resp: 1258353
Ion Ratio Lower Upper
50 100
52 32.5 25.5 38.3



#9
Propene
Concen: 36.513 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.003 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

Tgt Ion: 41 Resp: 2203776
Ion Ratio Lower Upper
41 100
42 70.5 56.3 84.5

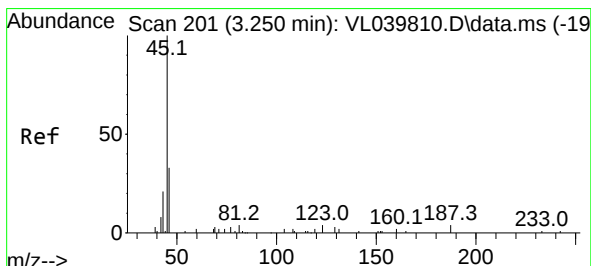
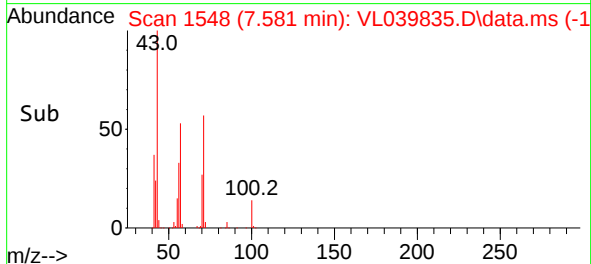
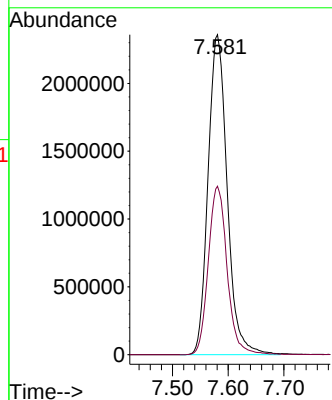
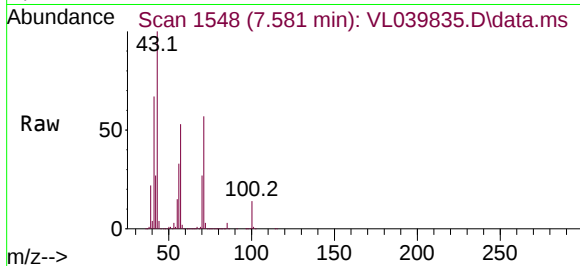




#10
Heptane
Concen: 38.908 ppbv
RT: 7.581 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

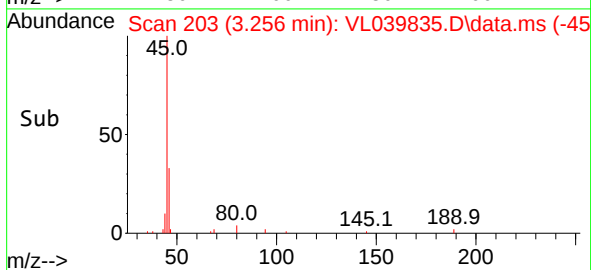
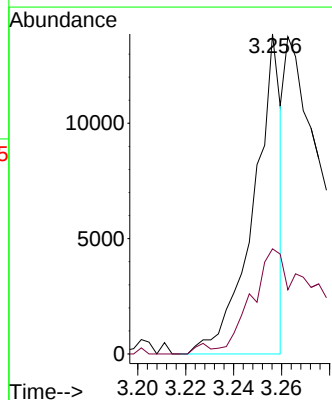
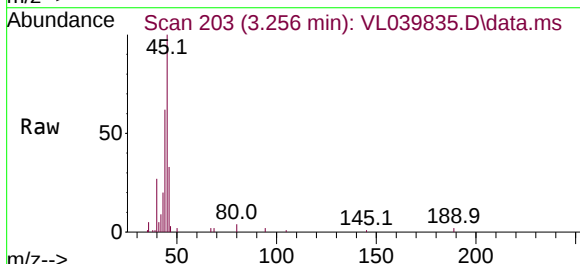
Instrument :
MSVOA_L
ClientSampleId :
E062-1100

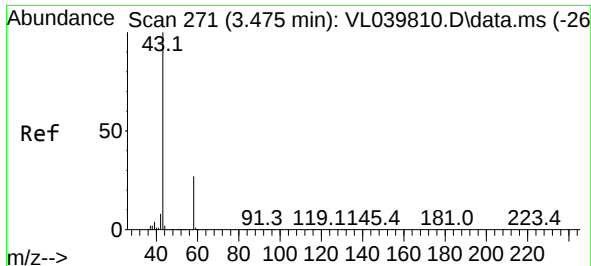
Tgt Ion: 43 Resp: 5625777
Ion Ratio Lower Upper
43 100
57 52.0 40.5 60.7



#13
Ethanol
Concen: 2.588 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.007 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

Tgt Ion: 45 Resp: 11039
Ion Ratio Lower Upper
45 100
46 88.9 16.5 65.9#

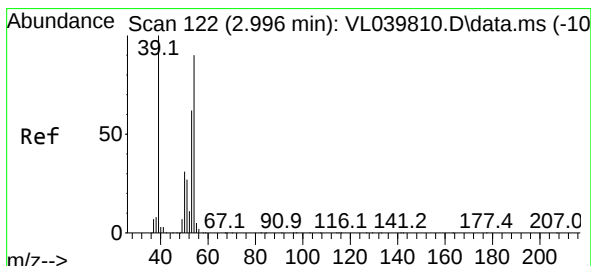
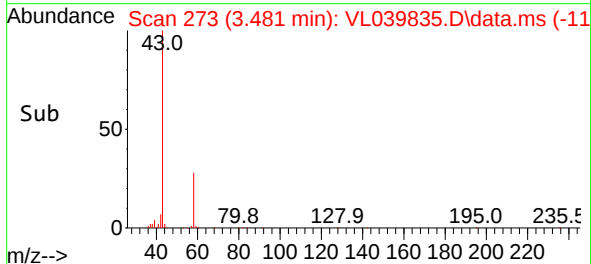
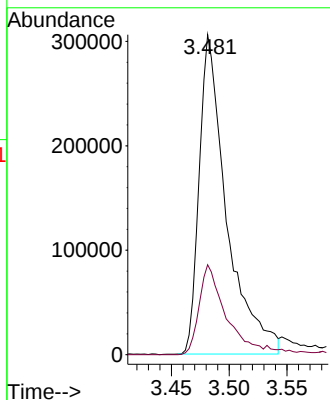
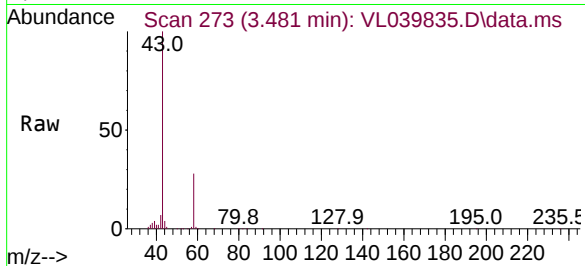




#15
Acetone
Concen: 4.271 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

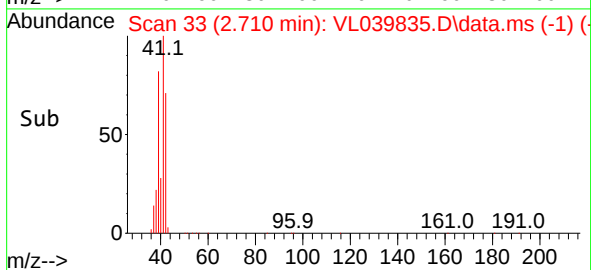
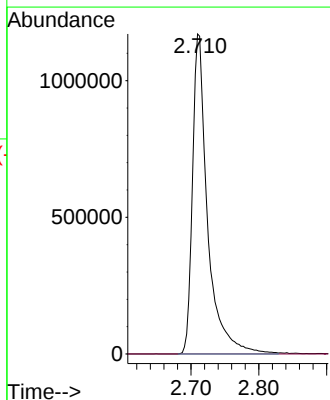
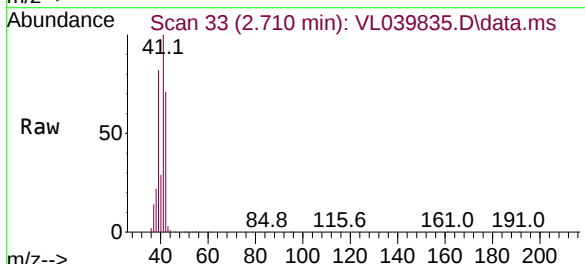
Instrument :
MSVOA_L
ClientSampleId :
E062-1100

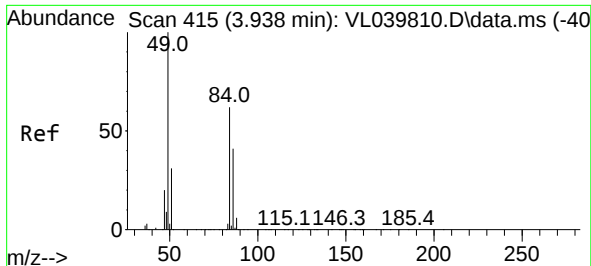
Tgt Ion: 43 Resp: 505160
Ion Ratio Lower Upper
43 100
58 29.7 23.2 34.8



#16
1,3-Butadiene
Concen: 32.935 ppbv
RT: 2.710 min Scan# 33
Delta R.T. -0.286 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

Tgt Ion: 39 Resp: 1811609
Ion Ratio Lower Upper
39 100
54 0.0 71.0 106.4#





#20

Methylene Chloride

Concen: 55.957 ppbv

RT: 3.944 min Scan# 415

Delta R.T. 0.007 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

Instrument :

MSVOA_L

ClientSampleId :

E062-1100

Tgt Ion: 84 Resp: 2367722

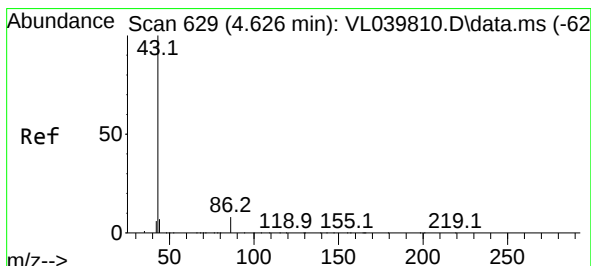
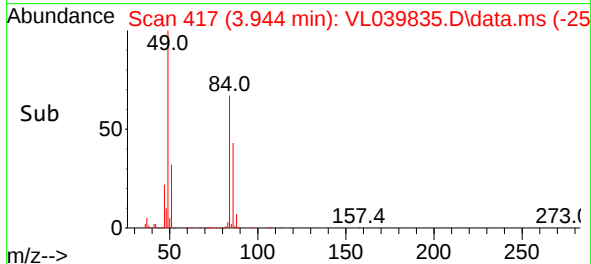
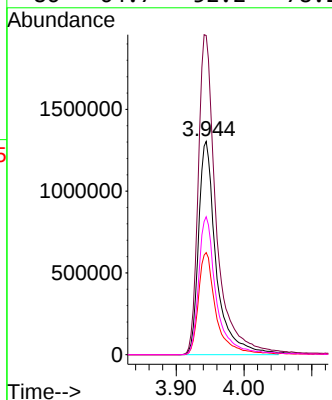
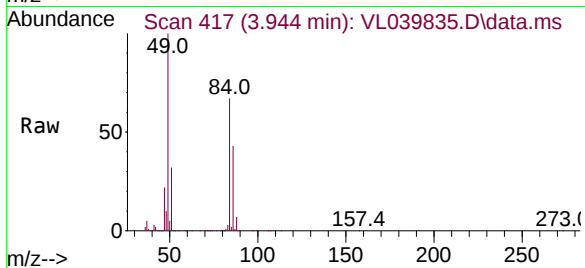
Ion Ratio Lower Upper

84 100

49 149.6 128.6 192.8

51 47.8 40.2 60.4

86 64.7 52.2 78.2



#23

Vinyl Acetate

Concen: 0.032 ppbv

RT: 4.632 min Scan# 631

Delta R.T. 0.007 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

Tgt Ion: 43 Resp: 1510

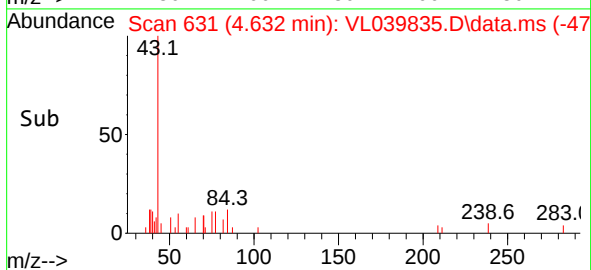
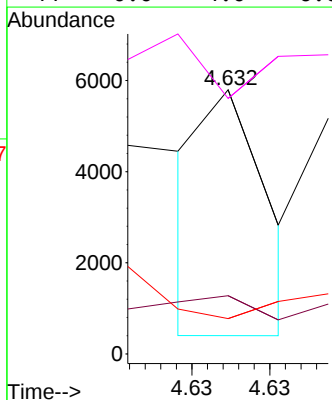
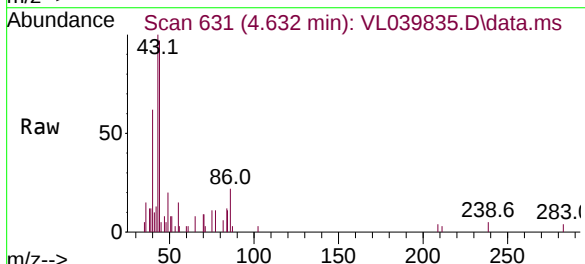
Ion Ratio Lower Upper

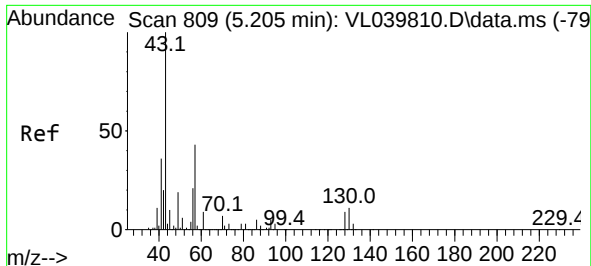
43 100

86 17.9 5.0 7.4#

42 0.0 6.8 10.2#

44 0.0 4.0 6.0#





#25

Ethyl Acetate

Concen: 8.447 ppbv

RT: 5.218 min Scan# 813

Delta R.T. 0.013 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

Instrument :

MSVOA_L

ClientSampleId :

E062-1100

Tgt Ion: 43 Resp: 2057847

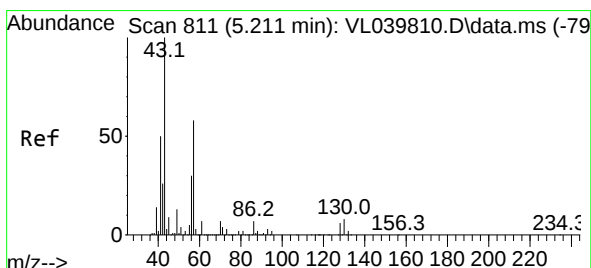
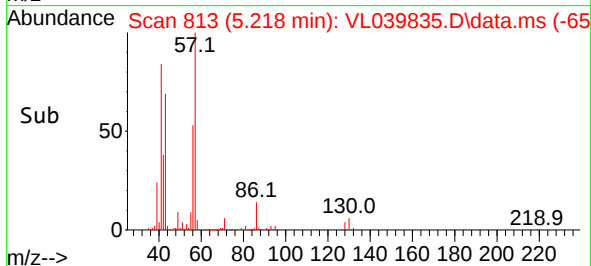
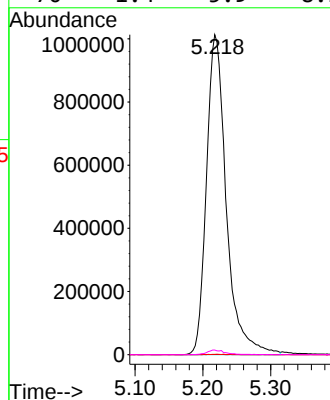
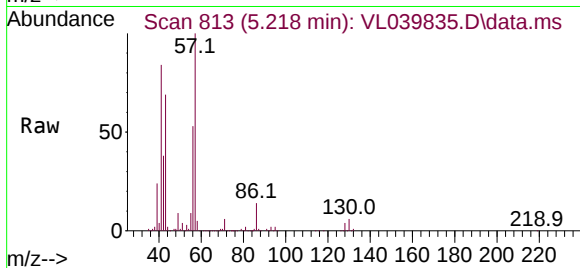
Ion Ratio Lower Upper

43 100

45 0.1 8.2 12.2#

61 0.1 8.1 12.1#

70 1.4 5.9 8.9#



#26

Hexane

Concen: 28.074 ppbv

RT: 5.218 min Scan# 813

Delta R.T. 0.007 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

Tgt Ion: 57 Resp: 3049536

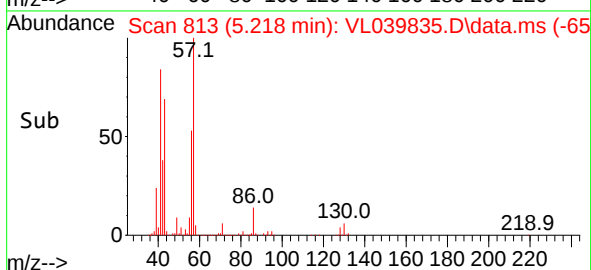
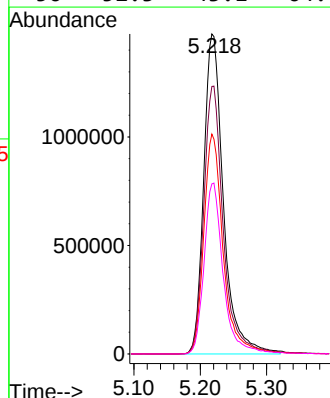
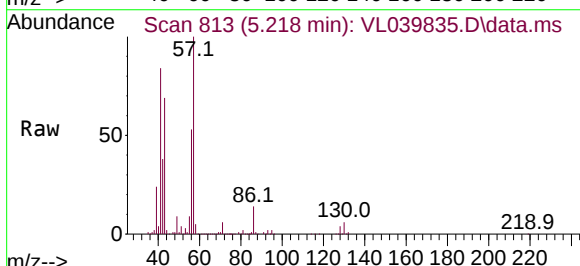
Ion Ratio Lower Upper

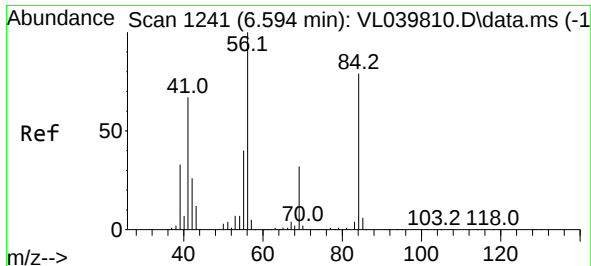
57 100

41 83.7 73.7 110.5

43 68.1 189.8 284.8#

56 52.3 43.1 64.7



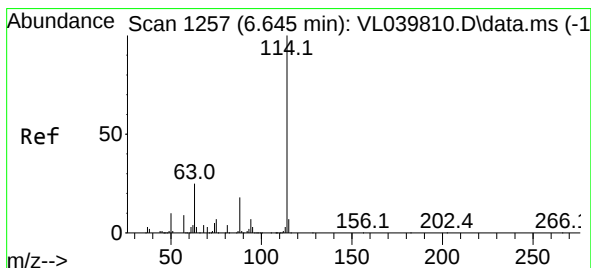
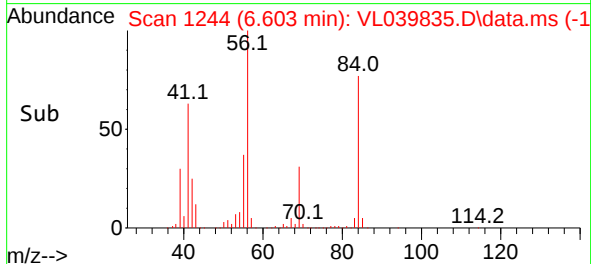
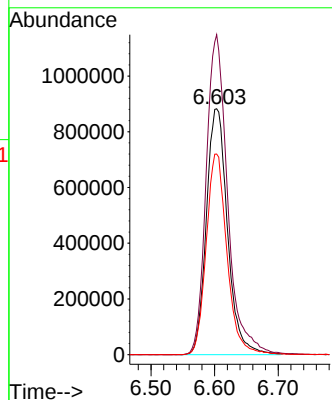
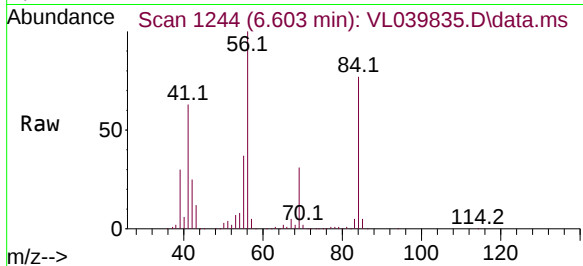


#30
Cyclohexane
Concen: 22.498 ppbv
RT: 6.603 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

Instrument :
MSVOA_L
ClientSampleId :
E062-1100

Tgt Ion: 84 Resp: 2043605

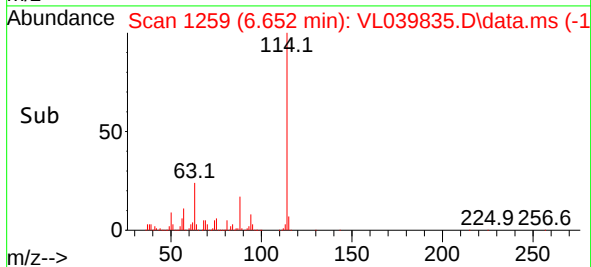
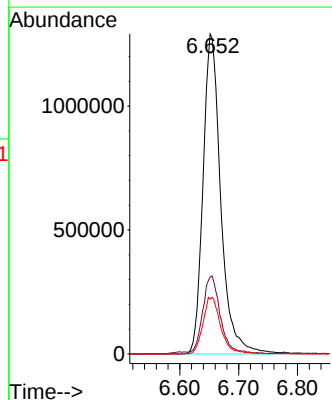
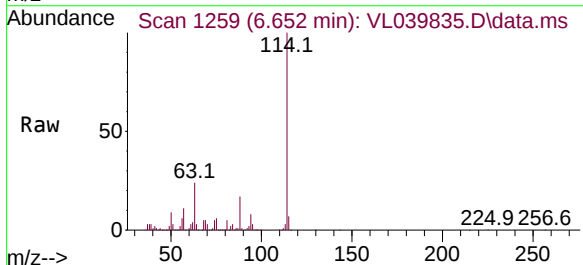
Ion	Ratio	Lower	Upper
84	100		
56	131.9	114.8	172.2
41	80.1	68.6	103.0

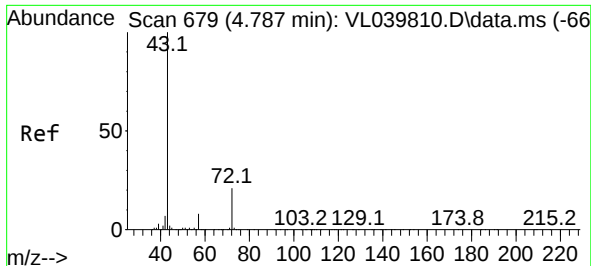


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. 0.007 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

Tgt Ion: 114 Resp: 2699491

Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.8	29.6
88	17.9	14.4	21.6

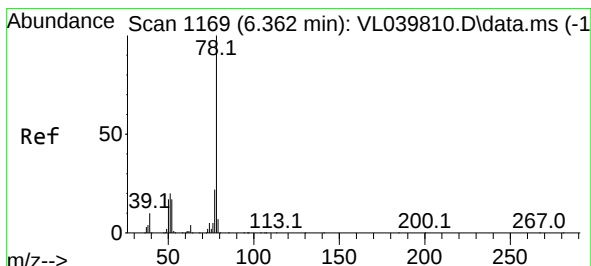
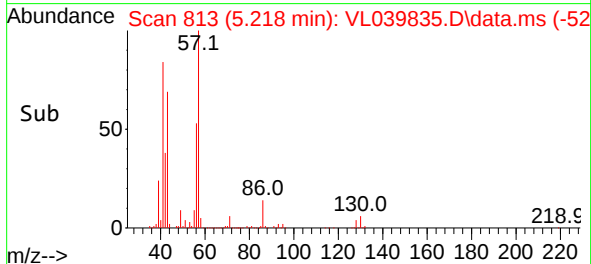
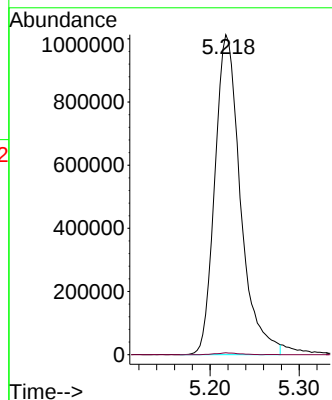
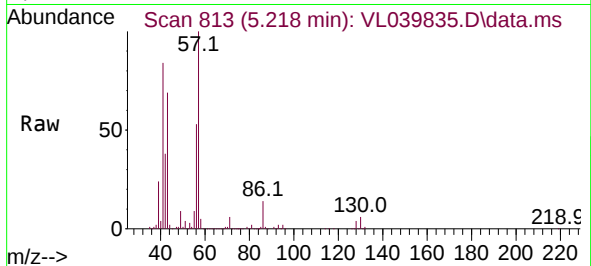




#34
2-Butanone
Concen: 18.156 ppbv
RT: 5.218 min Scan# 81
Delta R.T. 0.431 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

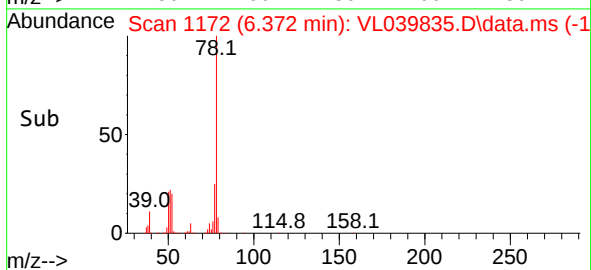
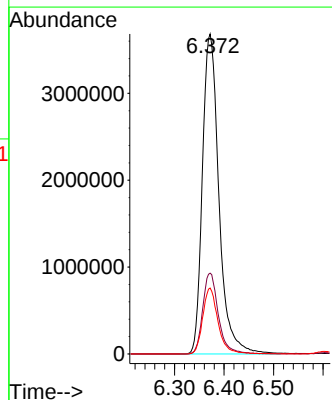
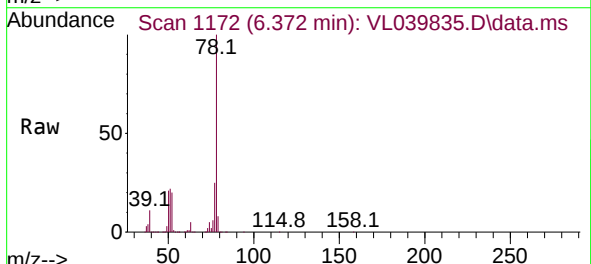
Instrument :
MSVOA_L
ClientSampleId :
E062-1100

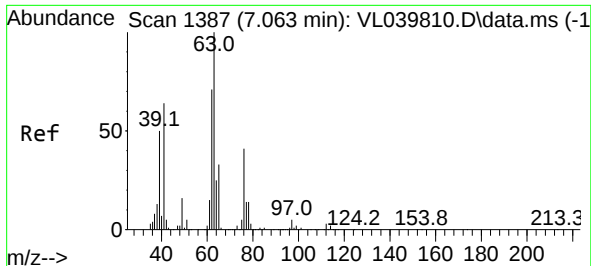
Tgt Ion: 43 Resp: 2021939
Ion Ratio Lower Upper
43 100
72 0.0 17.5 26.3#



#36
Benzene
Concen: 37.516 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. 0.010 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

Tgt Ion: 78 Resp: 8542959
Ion Ratio Lower Upper
78 100
77 25.3 17.4 26.2
50 20.6 13.9 20.9





#39

1,2-Dichloropropane

Concen: 28.159 ppbv

RT: 7.073 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

Instrument :

MSVOA_L

ClientSampleId :

E062-1100

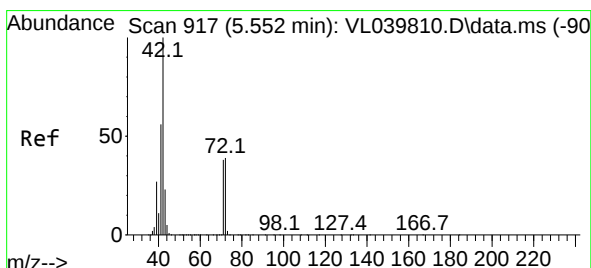
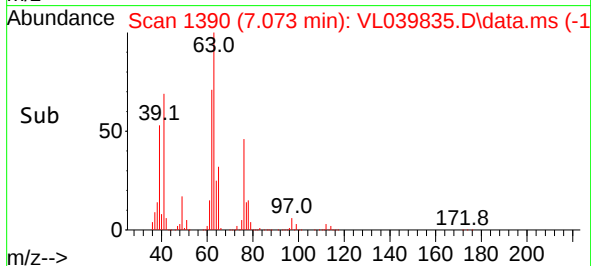
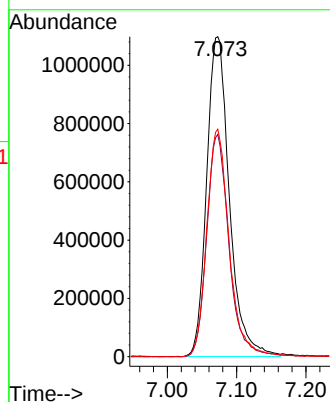
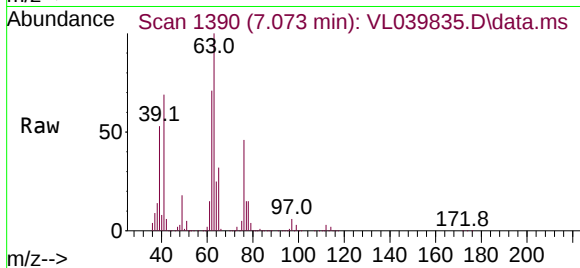
Tgt Ion: 63 Resp: 2498359

Ion Ratio Lower Upper

63 100

41 69.4 51.0 76.4

62 71.1 56.6 85.0



#41

Tetrahydrofuran

Concen: 0.151 ppbv

RT: 5.269 min Scan# 829

Delta R.T. -0.283 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

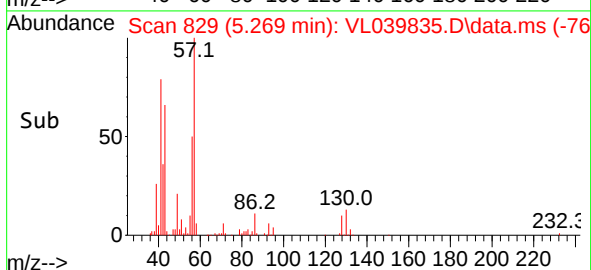
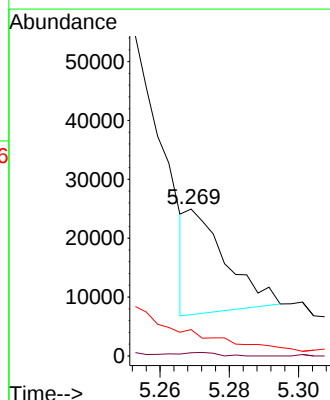
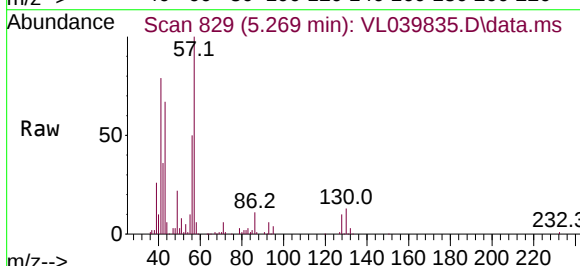
Tgt Ion: 42 Resp: 14029

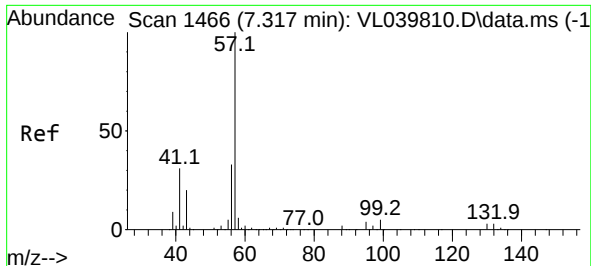
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

71 0.0 31.5 47.3#





#44

2,2,4-Trimethylpentane

Concen: 7.535 ppbv

RT: 7.581 min Scan# 1

Delta R.T. 0.264 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

Instrument :

MSVOA_L

ClientSampleId :

E062-1100

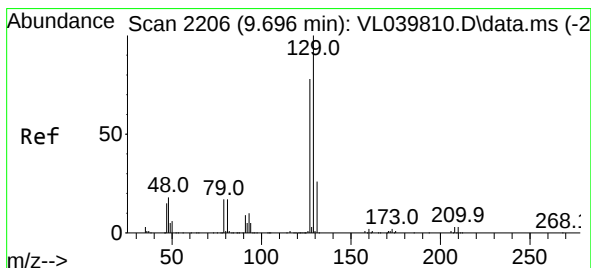
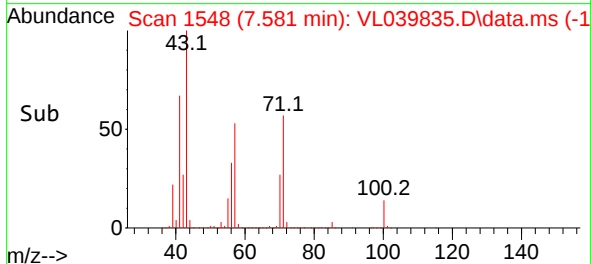
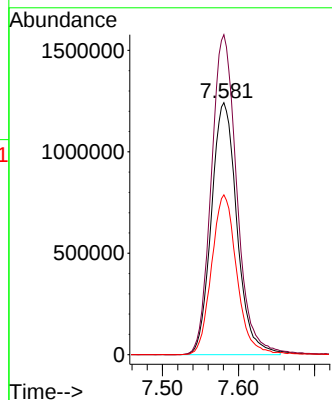
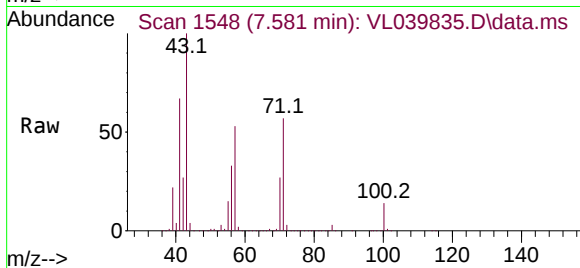
Tgt Ion: 57 Resp: 2896351

Ion Ratio Lower Upper

57 100

41 0.0 24.6 36.8#

56 63.2 25.4 38.0#



#48

Dibromochloromethane

Concen: 0.062 ppbv

RT: 9.703 min Scan# 2208

Delta R.T. 0.007 min

Lab File: VL039835.D

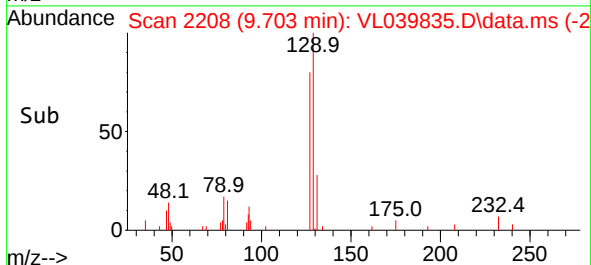
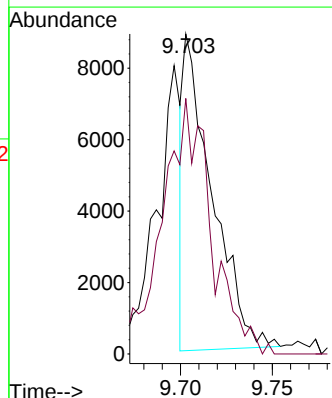
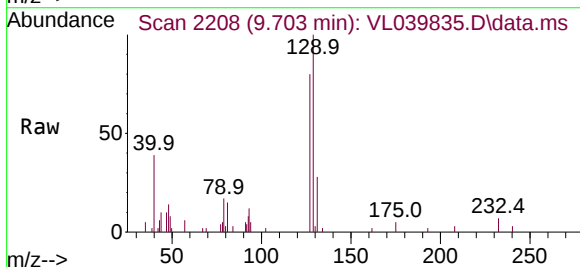
Acq: 7 Nov 2022 11:43

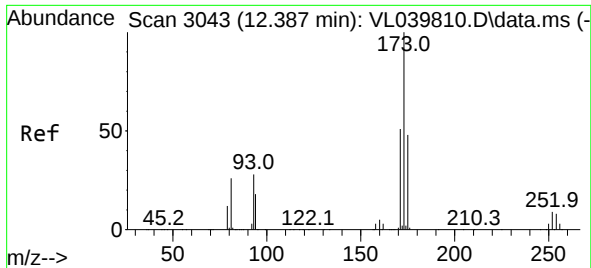
Tgt Ion: 129 Resp: 9521

Ion Ratio Lower Upper

129 100

127 139.3 39.4 118.1#

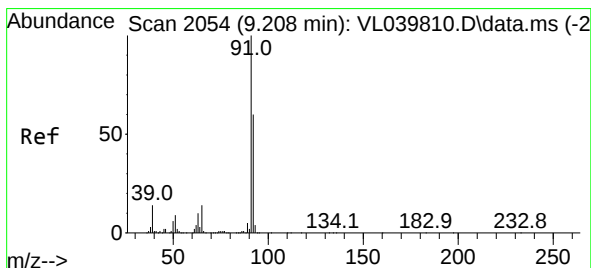
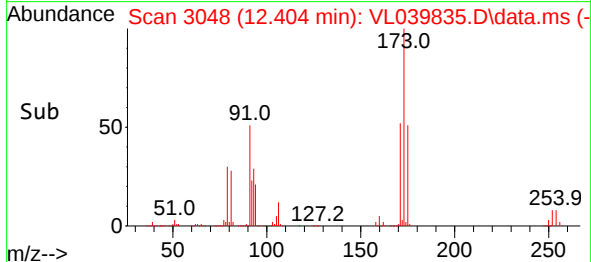
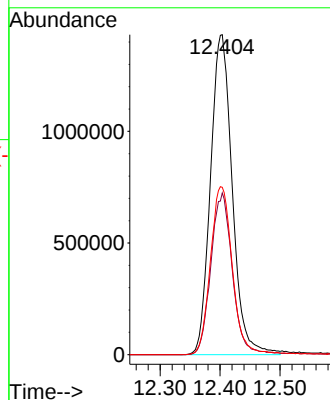
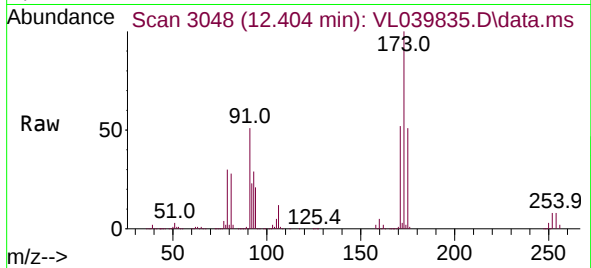




#49
Bromoform
Concen: 29.351 ppbv
RT: 12.404 min Scan# 3048
Delta R.T. 0.016 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

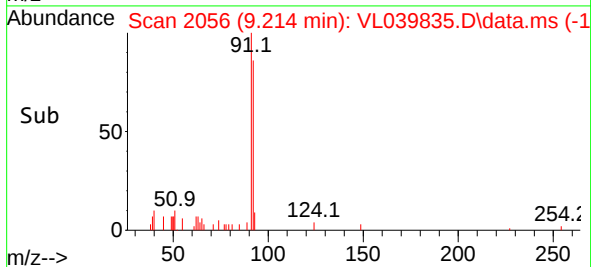
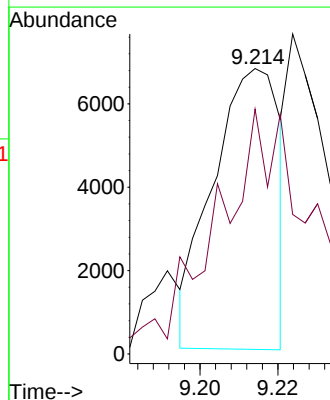
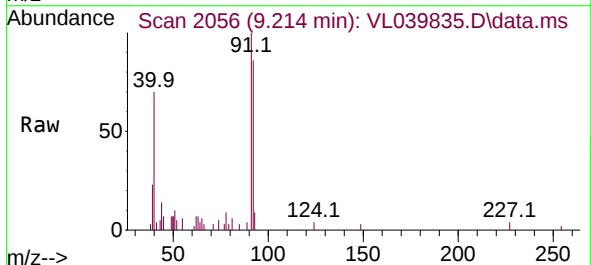
Instrument :
MSVOA_1
ClientSampleId :
E062-1100

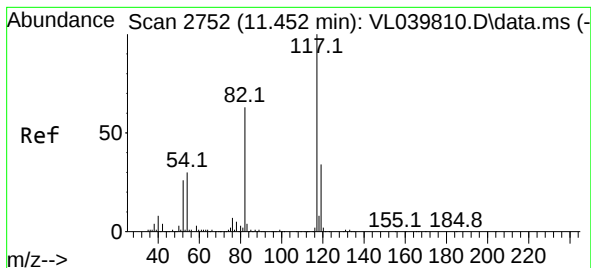
Tgt Ion:173 Resp: 3611452
Ion Ratio Lower Upper
173 100
175 50.4 39.7 59.5
171 53.3 41.7 62.5



#53
Toluene
Concen: 0.031 ppbv
RT: 9.214 min Scan# 2056
Delta R.T. 0.007 min
Lab File: VL039835.D
Acq: 7 Nov 2022 11:43

Tgt Ion: 91 Resp: 7985
Ion Ratio Lower Upper
91 100
92 134.7 49.6 74.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

Instrument :

MSVOA_1

ClientSampleId :

E062-1100

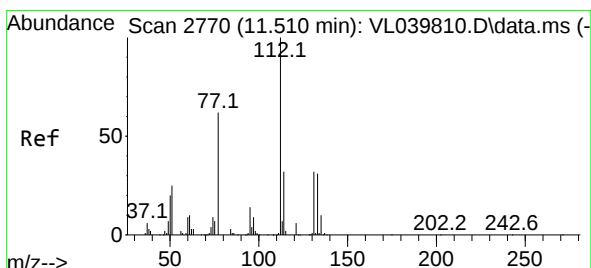
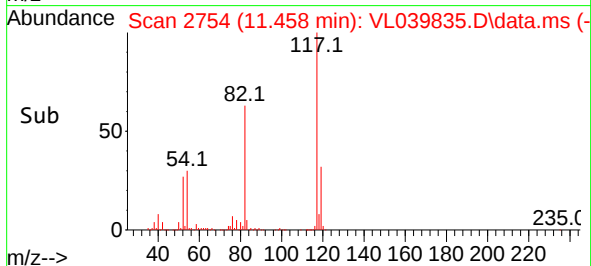
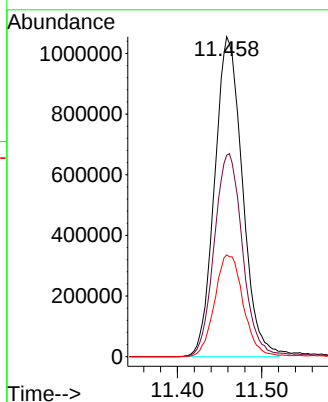
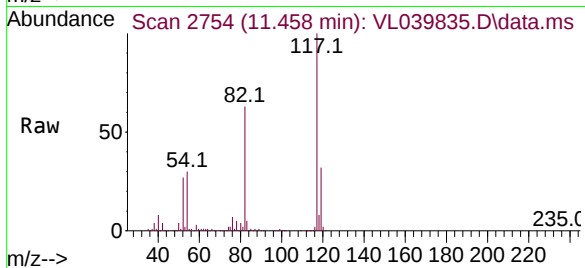
Tgt Ion:117 Resp: 2411636

Ion Ratio Lower Upper

117 100

82 65.6 51.0 76.6

119 33.3 24.7 37.1



#57

Chlorobenzene

Concen: 20.027 ppbv

RT: 11.520 min Scan# 2773

Delta R.T. 0.010 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

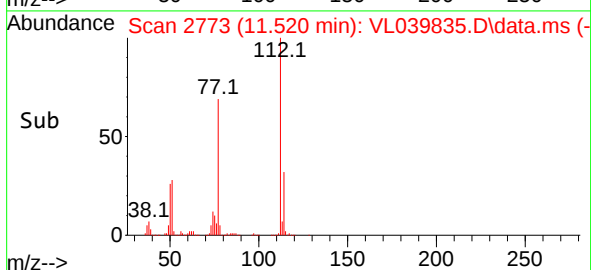
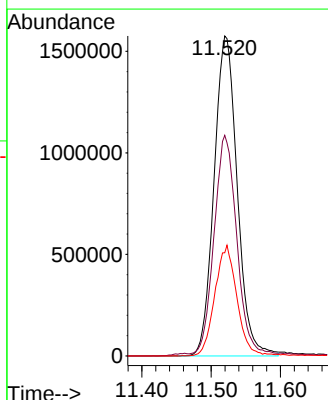
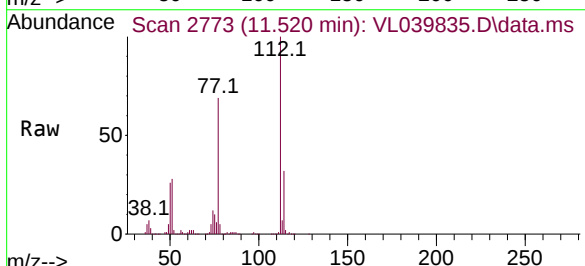
Tgt Ion:112 Resp: 3663456

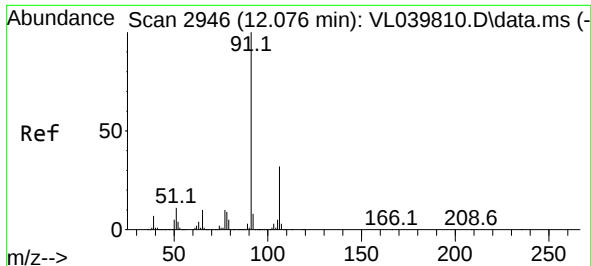
Ion Ratio Lower Upper

112 100

77 68.4 49.8 74.6

114 32.2 29.0 35.4





#58

Ethyl Benzene

Concen: 22.527 ppbv

RT: 12.375 min Scan# 3039

Delta R.T. 0.299 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

Instrument :

MSVOA_L

ClientSampleId :

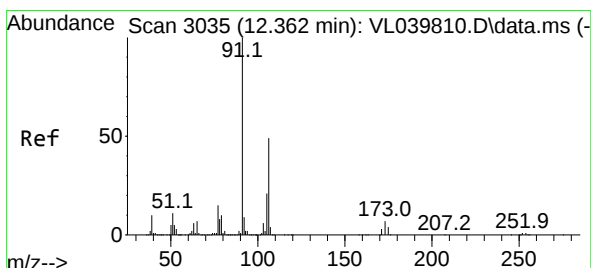
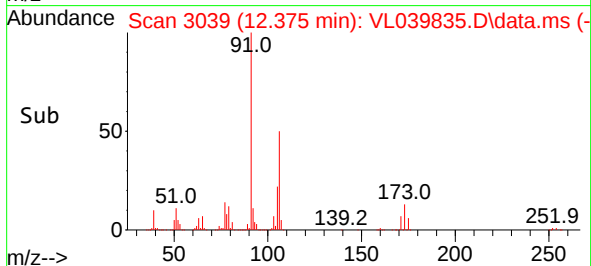
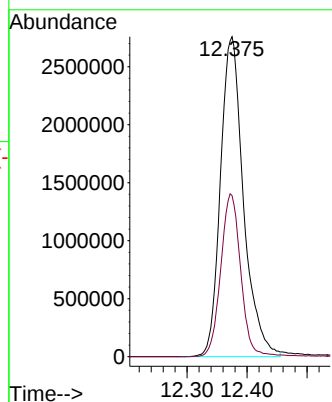
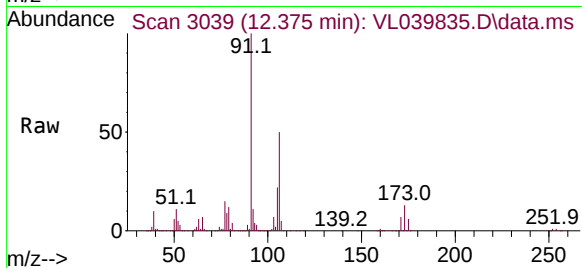
E062-1100

Tgt Ion: 91 Resp: 7345482

Ion Ratio Lower Upper

91 100

106 50.4 25.9 38.9#



#59

m/p-Xylene

Concen: 26.986 ppbv

RT: 12.375 min Scan# 3039

Delta R.T. 0.013 min

Lab File: VL039835.D

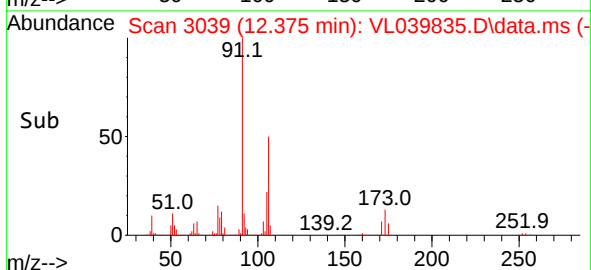
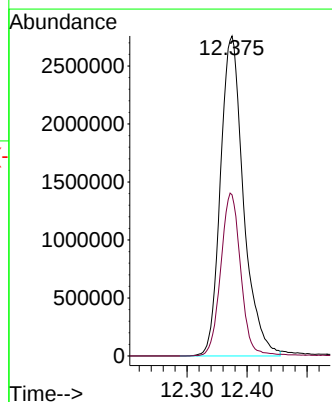
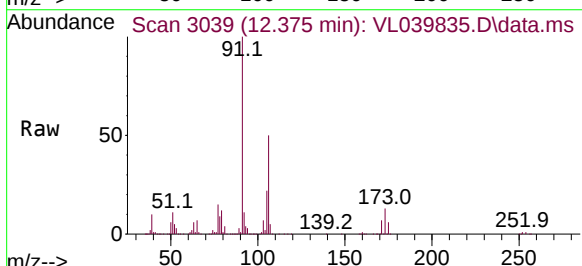
Acq: 7 Nov 2022 11:43

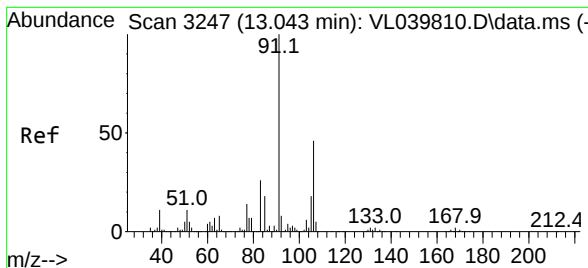
Tgt Ion: 91 Resp: 7345482

Ion Ratio Lower Upper

91 100

106 44.4 37.6 56.4





#60

o-Xylene

Concen: 31.466 ppbv

RT: 13.056 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

Instrument :

MSVOA_L

ClientSampleId :

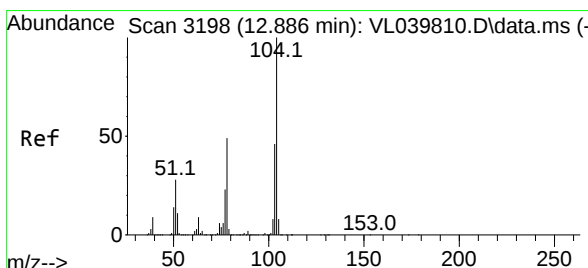
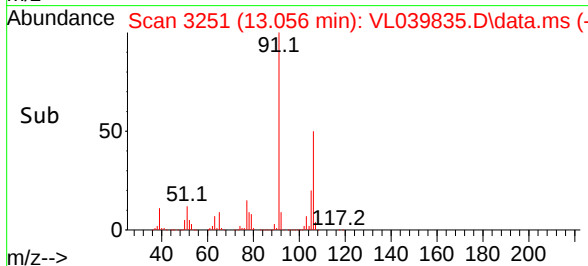
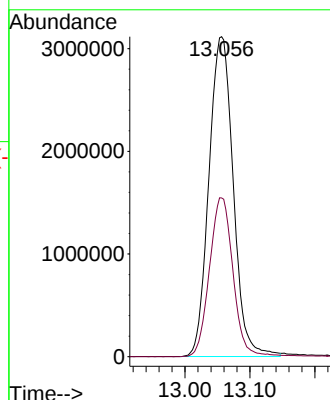
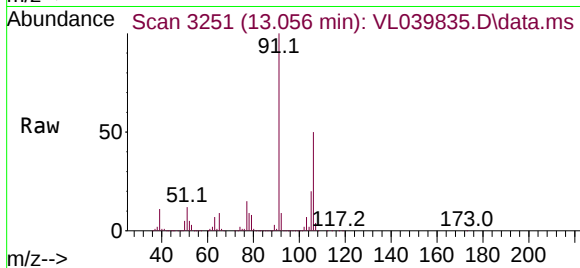
E062-1100

Tgt Ion: 91 Resp: 8114559

Ion Ratio Lower Upper

91 100

106 48.5 23.6 70.8



#61

Styrene

Concen: 1.152 ppbv

RT: 13.060 min Scan# 3252

Delta R.T. 0.174 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

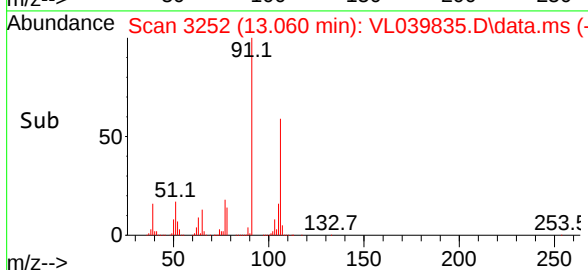
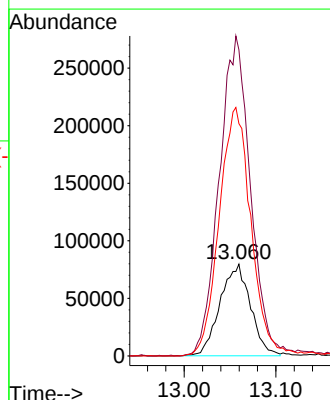
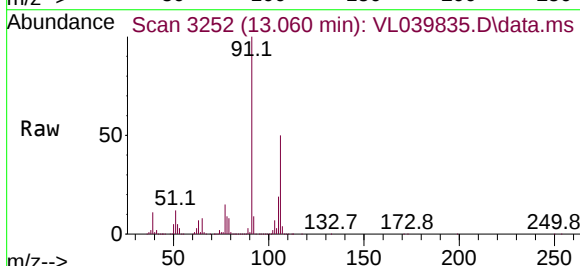
Tgt Ion:104 Resp: 182737

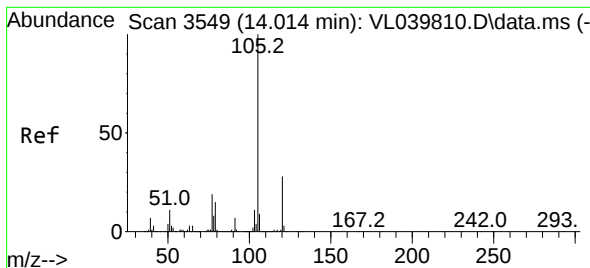
Ion Ratio Lower Upper

104 100

78 364.1 40.2 60.2#

103 291.0 37.5 56.3#





#62

Isopropylbenzene

Concen: 0.055 ppbv

RT: 14.027 min Scan# 3553

Delta R.T. 0.013 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

Instrument :

MSVOA_L

ClientSampleId :

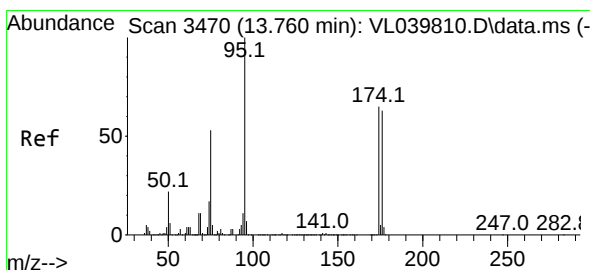
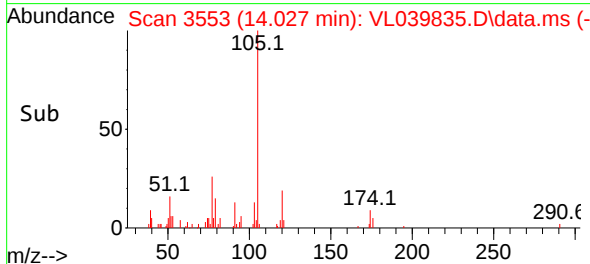
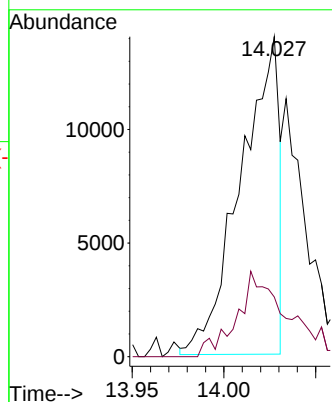
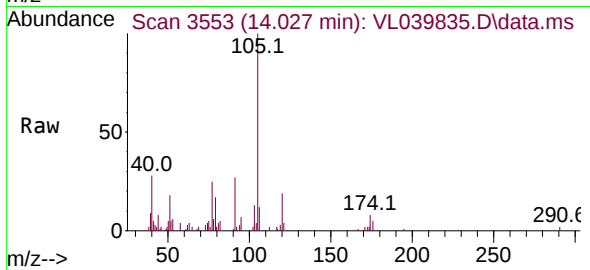
E062-1100

Tgt Ion:105 Resp: 20503

Ion Ratio Lower Upper

105 100

120 35.7 21.7 32.5#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.525 ppbv

RT: 13.770 min Scan# 3473

Delta R.T. 0.010 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

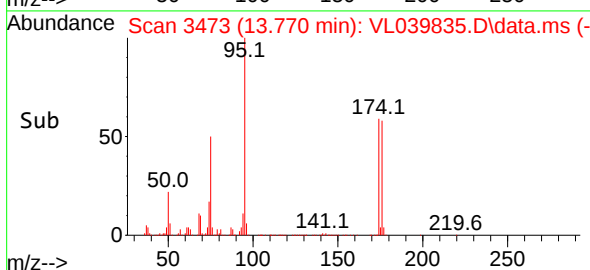
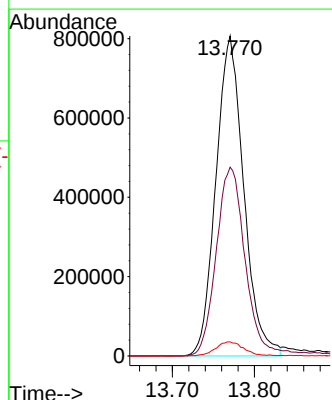
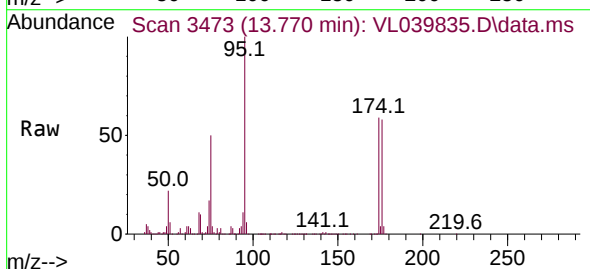
Tgt Ion: 95 Resp: 1899895

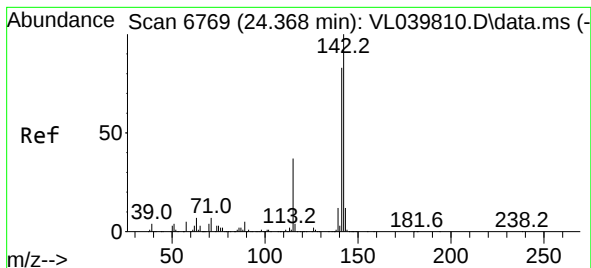
Ion Ratio Lower Upper

95 100

174 63.3 53.4 80.0

175 4.6 4.1 6.1





#80

Naphthalene, 2-methyl-

Concen: 0.067 ppbv

RT: 24.374 min Scan# 61

Delta R.T. 0.007 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

Instrument :

MSVOA_L

ClientSampleId :

E062-1100

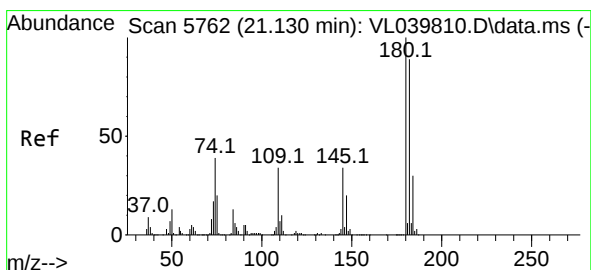
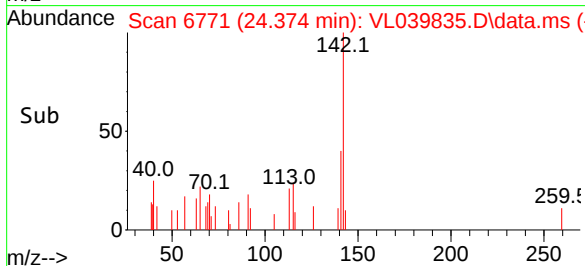
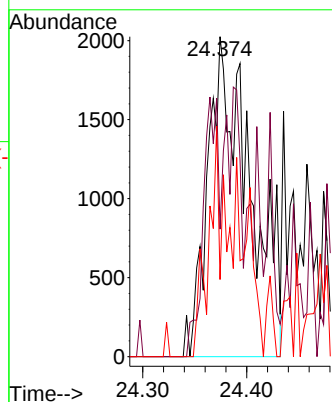
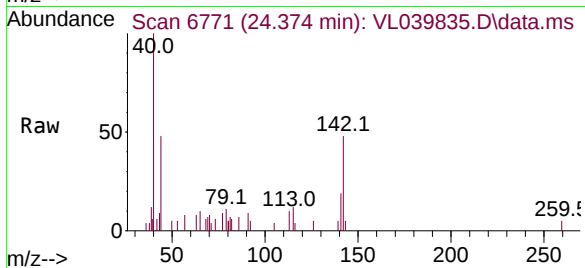
Tgt Ion:142 Resp: 5683

Ion Ratio Lower Upper

142 100

141 43.1 65.1 97.7#

115 18.4 29.1 43.7#



#81

1,2,4-Trichlorobenzene

Concen: 0.031 ppbv

RT: 21.146 min Scan# 5767

Delta R.T. 0.016 min

Lab File: VL039835.D

Acq: 7 Nov 2022 11:43

Tgt Ion:180 Resp: 3450

Ion Ratio Lower Upper

180 100

182 185.0 78.1 117.1#

184 0.0 24.5 36.7#

