

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110722\
 Data File : VL039837.D
 Acq On : 7 Nov 2022 13:01
 Operator : SY/AP
 Sample : N5409-01DL2 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E062-1100DL2

Quant Time: Nov 08 06:13:18 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	1063163	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2756251	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2530321	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1991958	10.518	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.200%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue

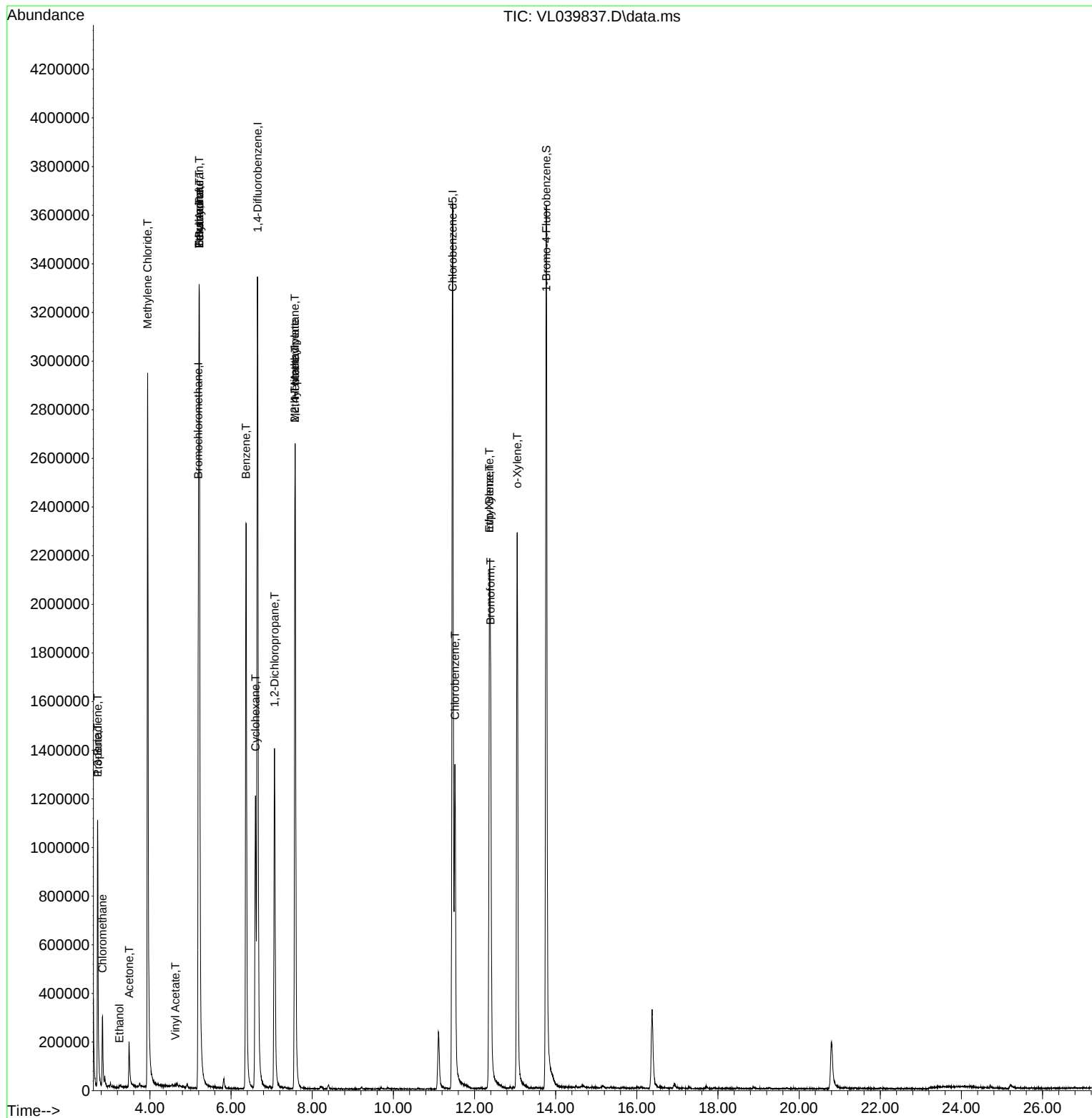
4) Chloromethane	2.829	50	258871	3.280	ppbv	99
9) Propene	2.710	41	492694	7.461	ppbv	95
10) Heptane	7.578	43	1393792	8.810	ppbv	100
13) Ethanol	3.247	45	723	0.155	ppbv #	34
15) Acetone	3.488	43	233222	1.802	ppbv	99
16) 1,3-Butadiene	2.713	39	408539	6.788	ppbv #	5
20) Methylene Chloride	3.944	84	1126615	24.335	ppbv	95
23) Vinyl Acetate	4.626	43	1620	0.031	ppbv #	73
25) Ethyl Acetate	5.218	43	869409	3.262	ppbv #	76
26) Hexane	5.218	57	1256646	10.573	ppbv #	37
30) Cyclohexane	6.603	84	452784	4.556	ppbv	97
34) 2-Butanone	5.218	43	859597	7.560	ppbv #	54
36) Benzene	6.369	78	2169941	9.333	ppbv	99
39) 1,2-Dichloropropane	7.073	63	563833	6.224	ppbv	98
41) Tetrahydrofuran	5.218	42	454599	4.784	ppbv #	50
43) Methyl Methacrylate	7.574	69	8026	0.087	ppbv #	1
44) 2,2,4-Trimethylpentane	7.574	57	701321	1.787	ppbv #	1
49) Bromoform	12.397	173	777035	6.185	ppbv	98
57) Chlorobenzene	11.520	112	803585	4.187	ppbv	93
58) Ethyl Benzene	12.368	91	1790237	5.233	ppbv #	77
59) m/p-Xylene	12.368	91	1790237	6.269	ppbv	93
60) o-Xylene	13.053	91	1966186	7.267	ppbv	99

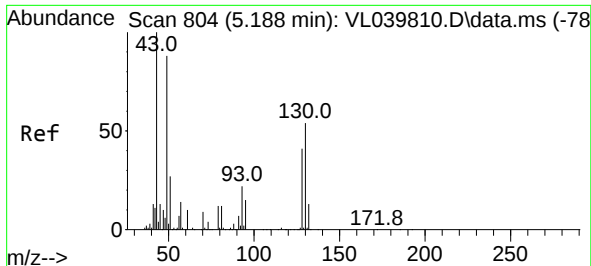
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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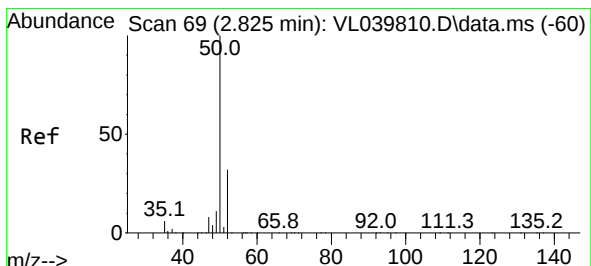
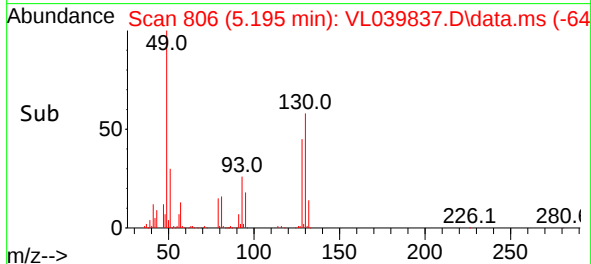
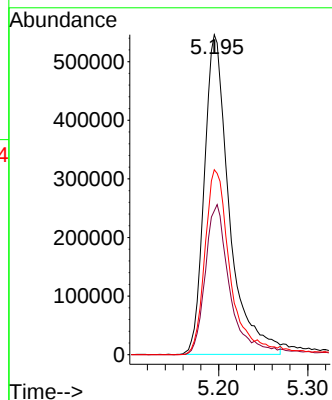
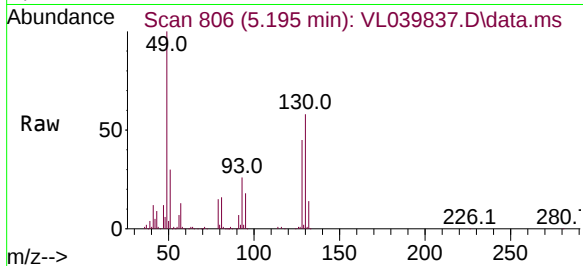




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

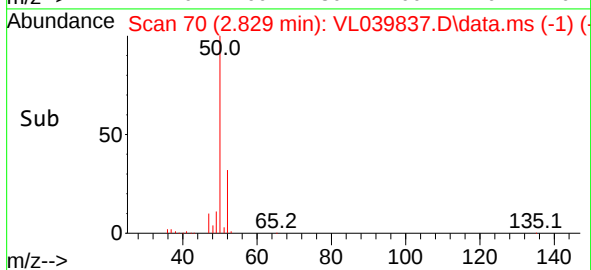
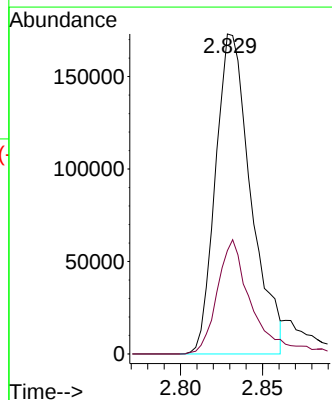
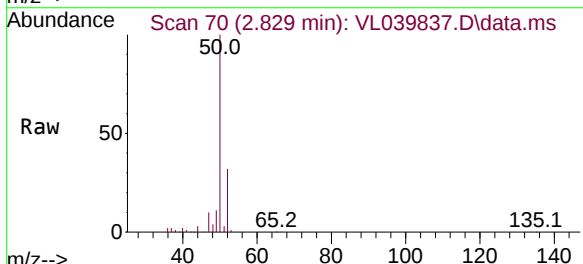
Instrument :
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E062-1100DL2

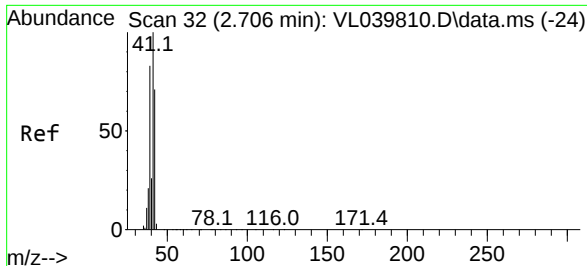
Tgt Ion: 49 Resp: 1063163
Ion Ratio Lower Upper
49 100
128 48.2 24.6 73.6
130 60.6 31.1 93.2



#4
Chloromethane
Concen: 3.280 ppbv
RT: 2.829 min Scan# 70
Delta R.T. 0.003 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

Tgt Ion: 50 Resp: 258871
Ion Ratio Lower Upper
50 100
52 32.3 25.5 38.3

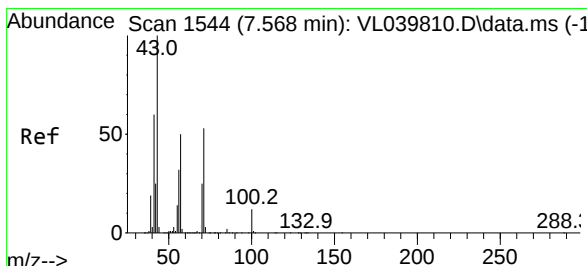
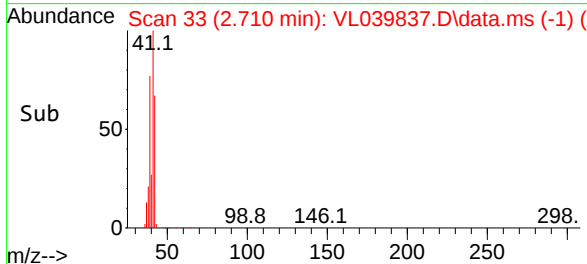
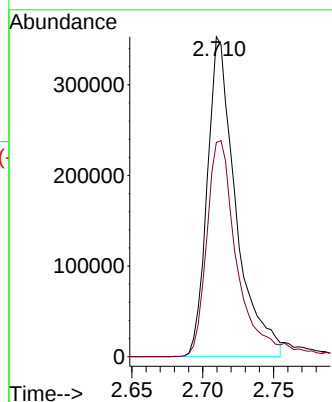
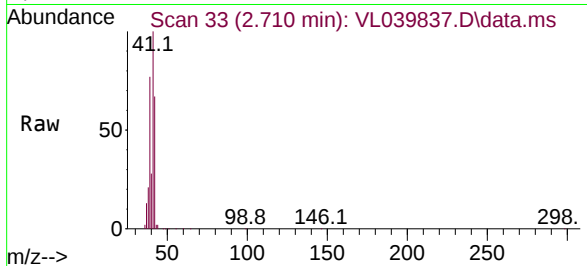




#9
 Propene
 Concen: 7.461 ppbv
 RT: 2.710 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VL039837.D
 Acq: 7 Nov 2022 13:01

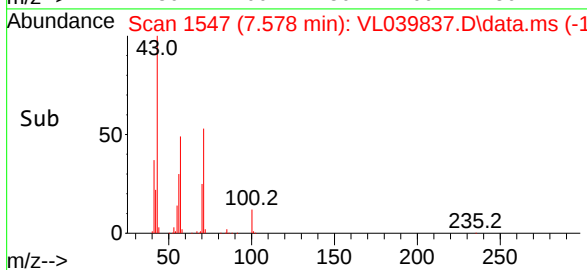
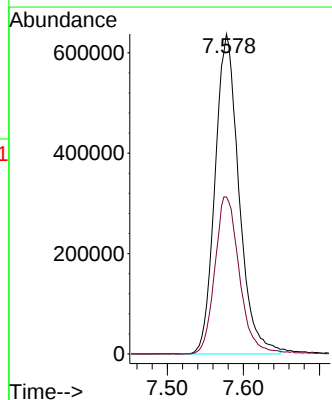
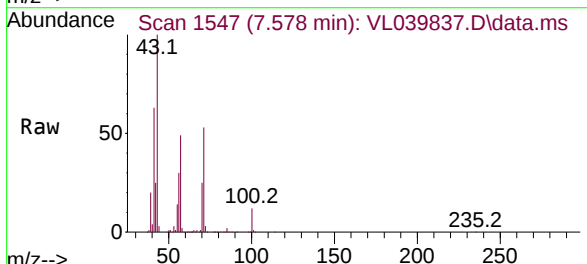
Instrument :
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 ClientSampleId :
 E062-1100DL2

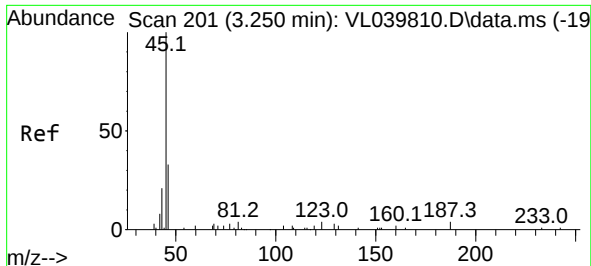
Tgt Ion: 41 Resp: 492694
 Ion Ratio Lower Upper
 41 100
 42 74.6 56.3 84.5



#10
 Heptane
 Concen: 8.810 ppbv
 RT: 7.578 min Scan# 1547
 Delta R.T. 0.010 min
 Lab File: VL039837.D
 Acq: 7 Nov 2022 13:01

Tgt Ion: 43 Resp: 1393792
 Ion Ratio Lower Upper
 43 100
 57 50.9 40.5 60.7

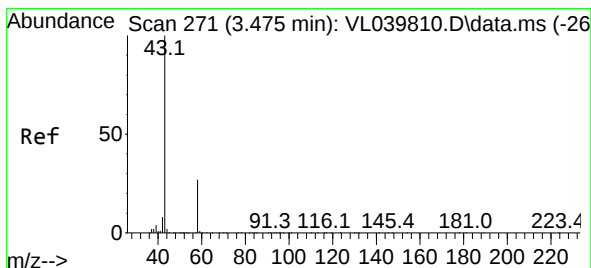
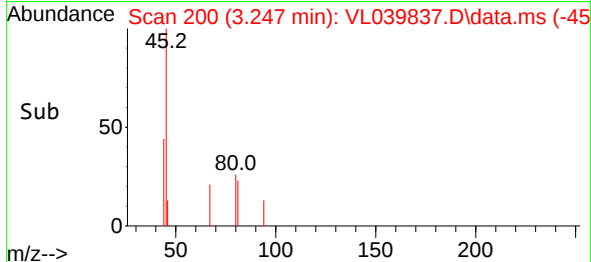
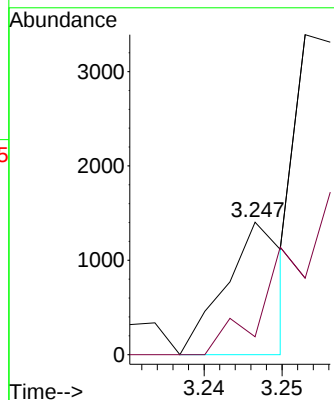
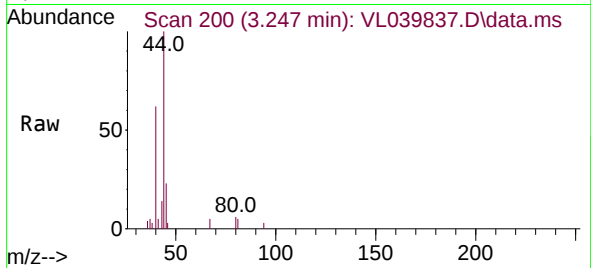




#13
Ethanol
Concen: 0.155 ppbv
RT: 3.247 min Scan# 201
Delta R.T. -0.003 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

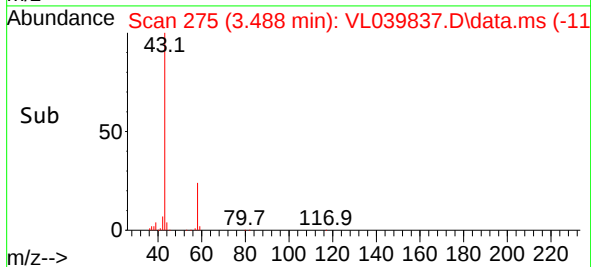
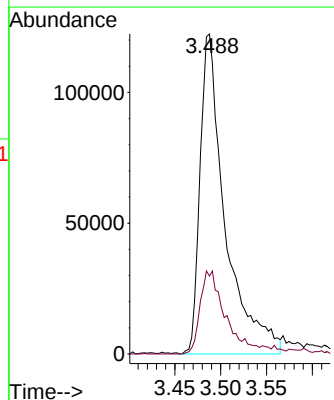
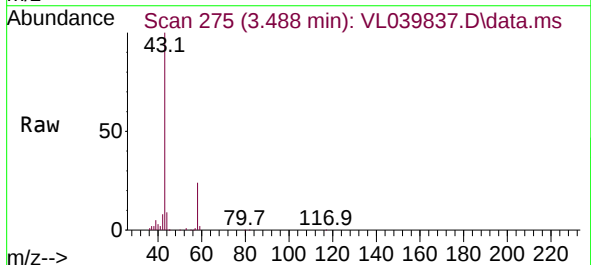
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DL2

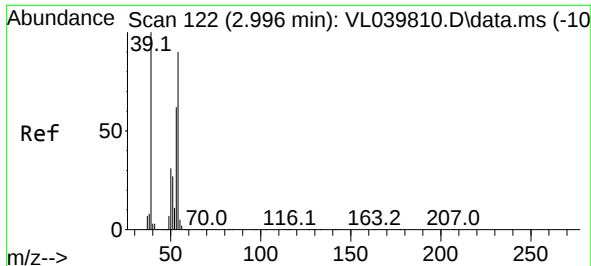
Tgt Ion: 45 Resp: 723
Ion Ratio Lower Upper
45 100
46 0.0 16.5 65.9#



#15
Acetone
Concen: 1.802 ppbv
RT: 3.488 min Scan# 275
Delta R.T. 0.013 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

Tgt Ion: 43 Resp: 233222
Ion Ratio Lower Upper
43 100
58 29.4 23.2 34.8

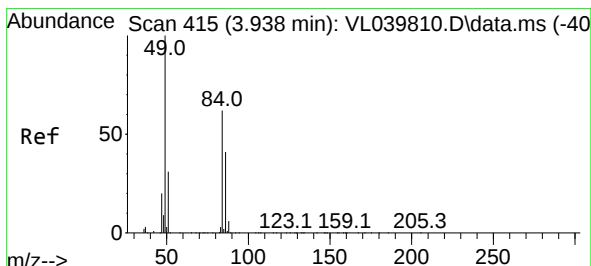
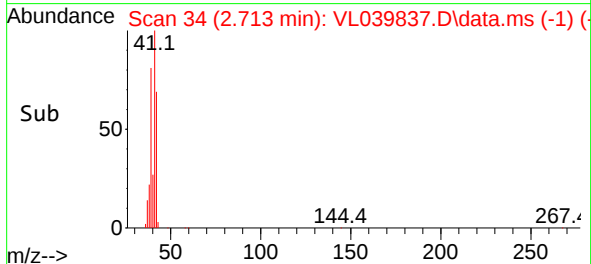
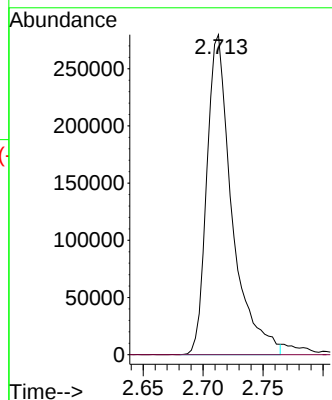
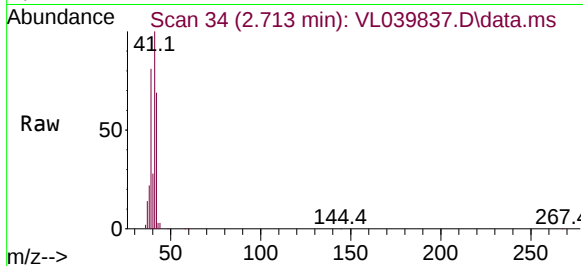




#16
1,3-Butadiene
Concen: 6.788 ppbv
RT: 2.713 min Scan# 34
Delta R.T. -0.283 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

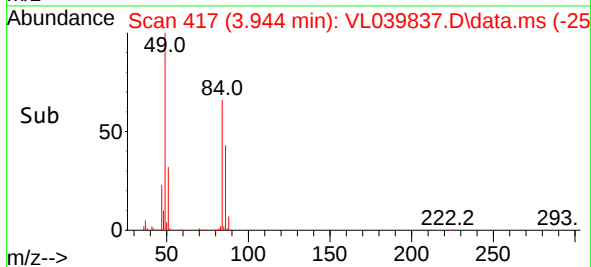
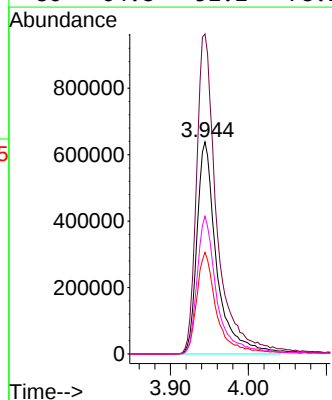
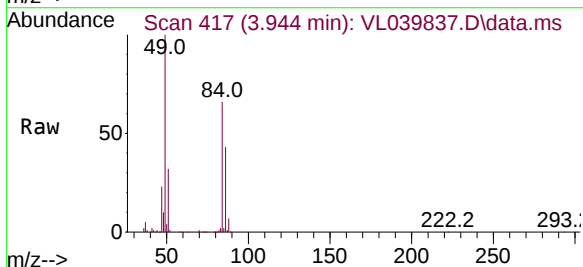
Instrument :
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ClientSampleId :
E062-1100DL2

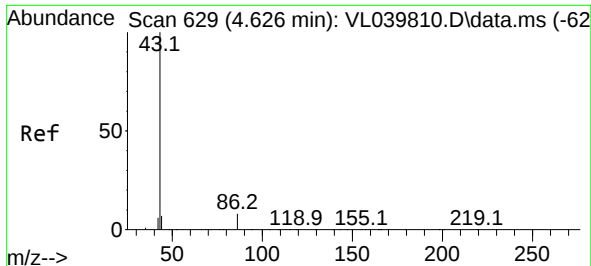
Tgt Ion: 39 Resp: 408539
Ion Ratio Lower Upper
39 100
54 0.0 71.0 106.4#



#20
Methylene Chloride
Concen: 24.335 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.007 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

Tgt Ion: 84 Resp: 1126615
Ion Ratio Lower Upper
84 100
49 150.8 128.6 192.8
51 47.9 40.2 60.4
86 64.8 52.2 78.2

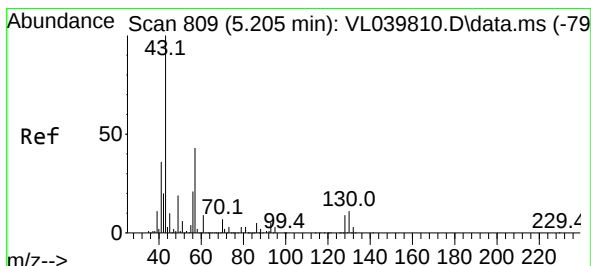
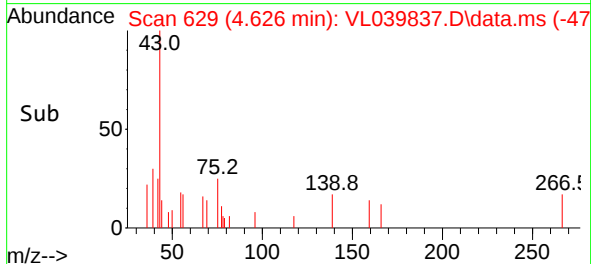
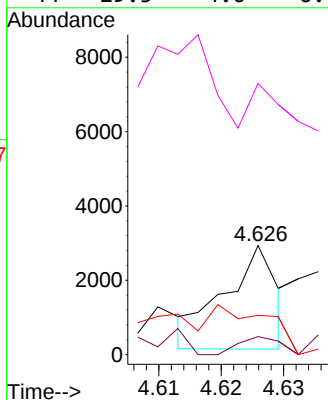
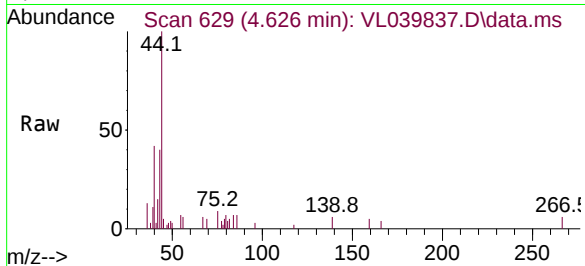




#23
 Vinyl Acetate
 Concen: 0.031 ppbv
 RT: 4.626 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL039837.D
 Acq: 7 Nov 2022 13:01

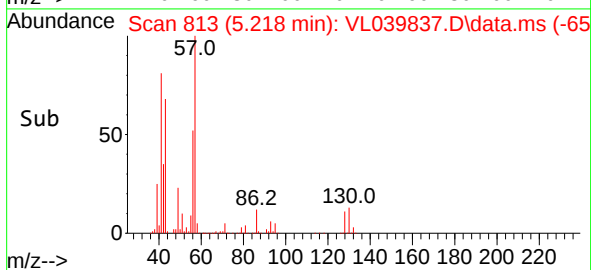
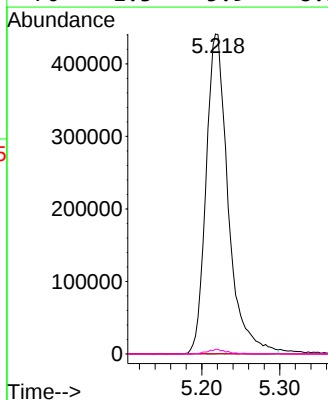
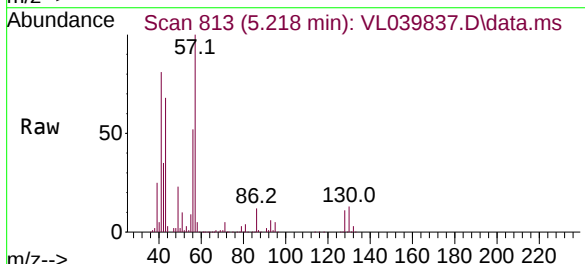
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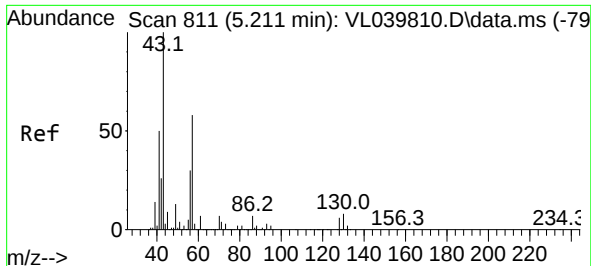
Tgt Ion:	43	Resp:	1620
Ion	Ratio	Lower	Upper
43	100		
86	6.3	5.0	7.4
42	1.9	6.8	10.2#
44	29.5	4.0	6.0#



#25
 Ethyl Acetate
 Concen: 3.262 ppbv
 RT: 5.218 min Scan# 813
 Delta R.T. 0.013 min
 Lab File: VL039837.D
 Acq: 7 Nov 2022 13:01

Tgt Ion:	43	Resp:	869409
Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.2	12.2#
61	0.1	8.1	12.1#
70	1.3	5.9	8.9#

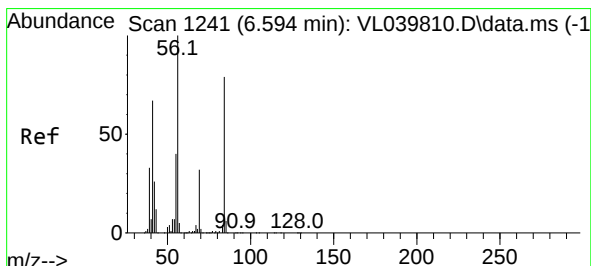
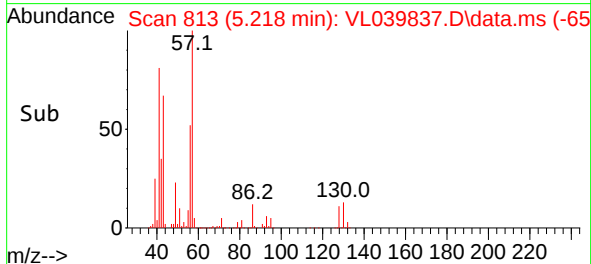
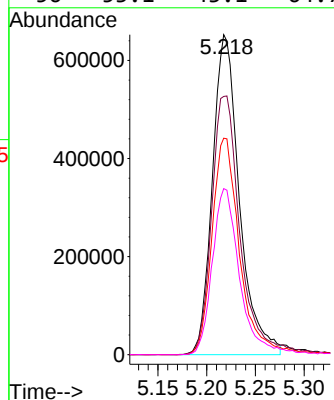
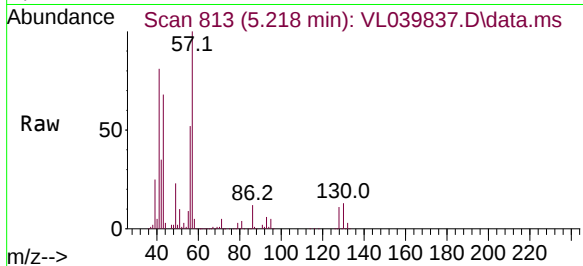




#26
Hexane
Concen: 10.573 ppbv
RT: 5.218 min Scan# 811
Delta R.T. 0.007 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

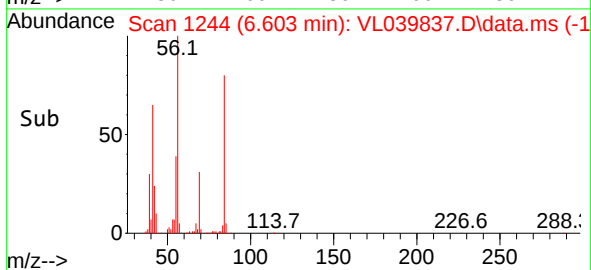
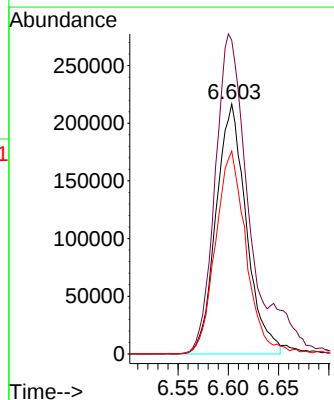
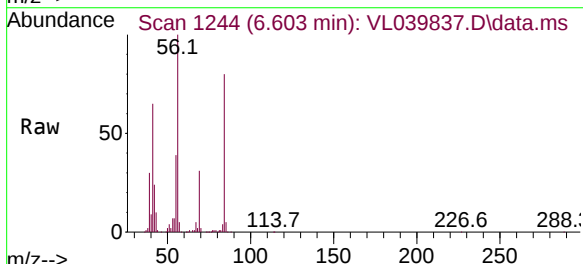
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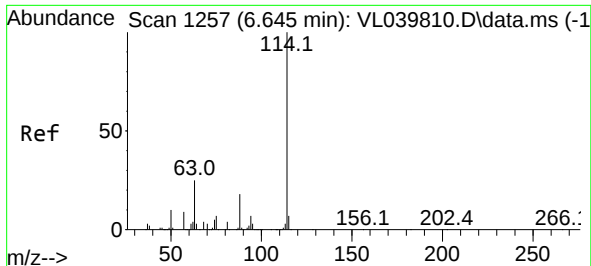
Tgt Ion: 57 Resp: 1256646
Ion Ratio Lower Upper
57 100
41 86.6 73.7 110.5
43 70.3 189.8 284.8#
56 53.1 43.1 64.7



#30
Cyclohexane
Concen: 4.556 ppbv
RT: 6.603 min Scan# 1244
Delta R.T. 0.010 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

Tgt Ion: 84 Resp: 452784
Ion Ratio Lower Upper
84 100
56 148.0 114.8 172.2
41 83.2 68.6 103.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL039837.D

Acq: 7 Nov 2022 13:01

Instrument :

MSVOA_L

ClientSampleId :

E062-1100DL2

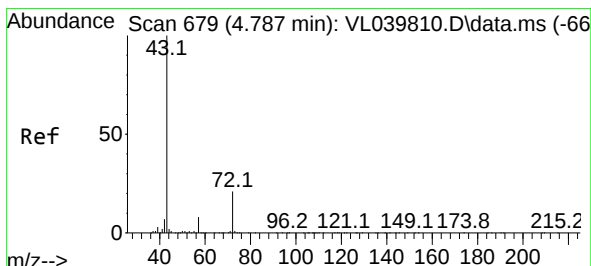
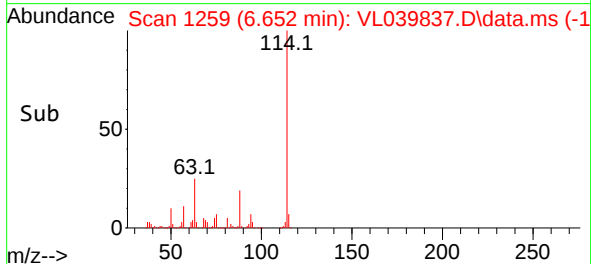
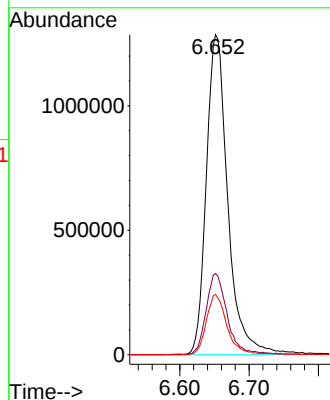
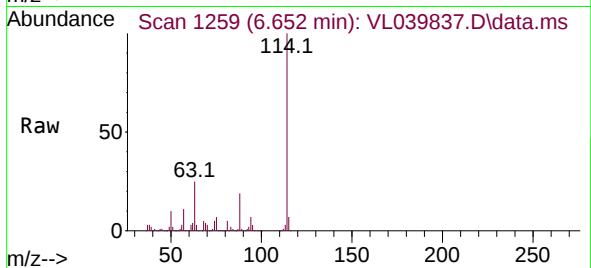
Tgt Ion:114 Resp: 2756251

Ion Ratio Lower Upper

114 100

63 25.4 19.8 29.6

88 18.4 14.4 21.6



#34

2-Butanone

Concen: 7.560 ppbv

RT: 5.218 min Scan# 813

Delta R.T. 0.431 min

Lab File: VL039837.D

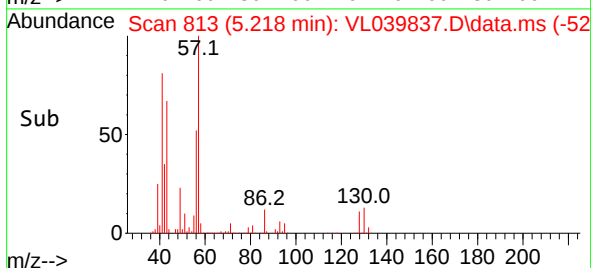
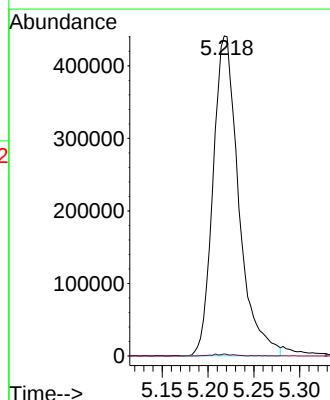
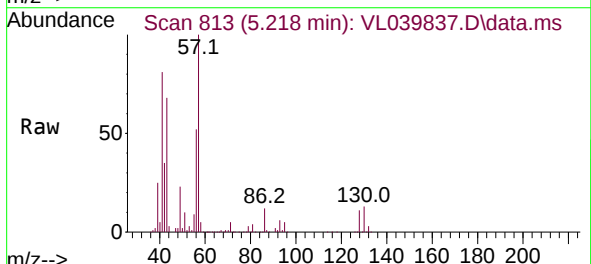
Acq: 7 Nov 2022 13:01

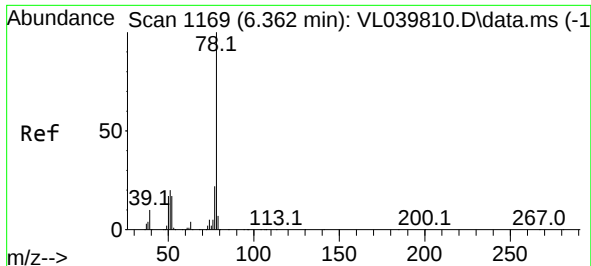
Tgt Ion: 43 Resp: 859597

Ion Ratio Lower Upper

43 100

72 0.0 17.5 26.3#





#36

Benzene

Concen: 9.333 ppbv

RT: 6.369 min Scan# 1169

Delta R.T. 0.007 min

Lab File: VL039837.D

Acq: 7 Nov 2022 13:01

Instrument :

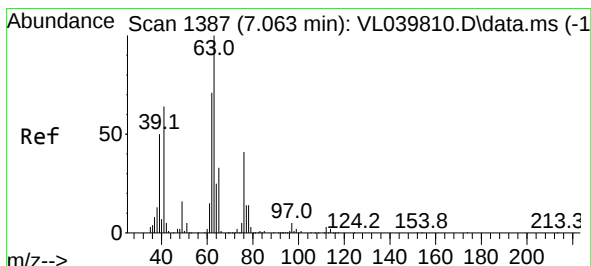
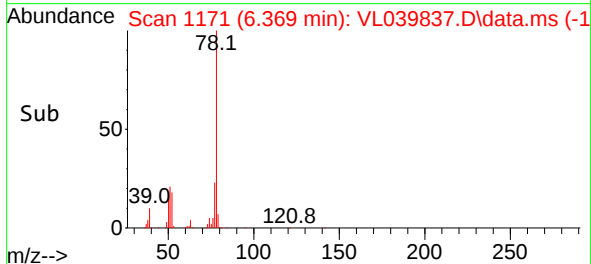
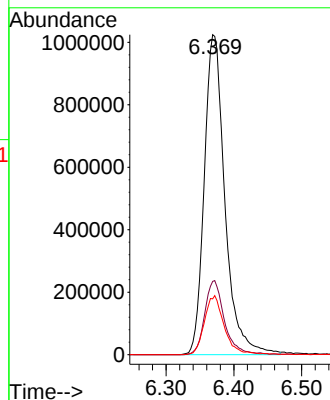
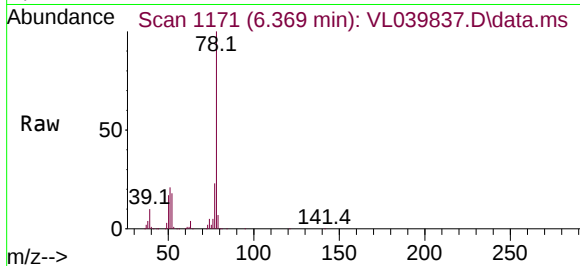
MSVOA_L

ClientSampleId :

E062-1100DL2

Tgt Ion: 78 Resp: 2169941

Ion	Ratio	Lower	Upper
78	100		
77	22.9	17.4	26.2
50	17.5	13.9	20.9



#39

1,2-Dichloropropane

Concen: 6.224 ppbv

RT: 7.073 min Scan# 1390

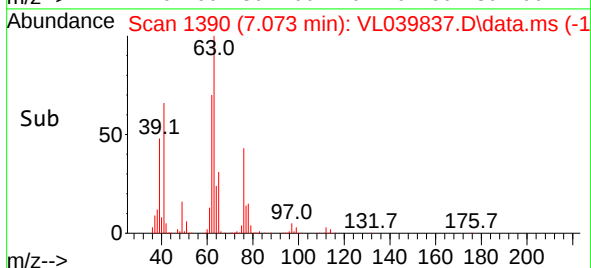
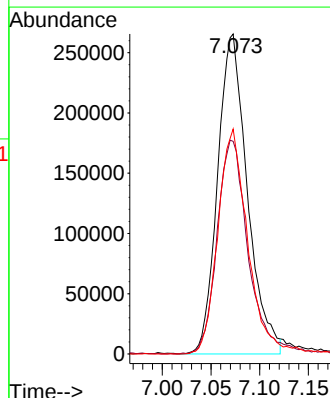
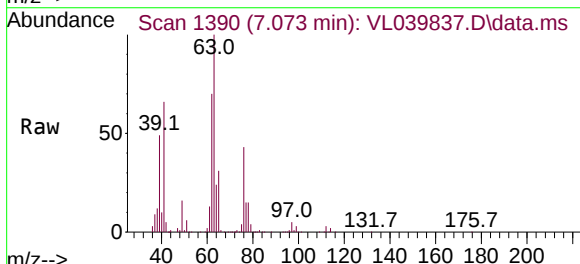
Delta R.T. 0.010 min

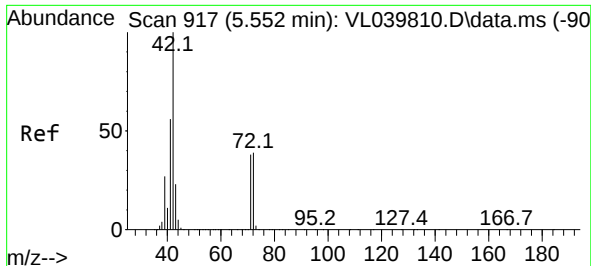
Lab File: VL039837.D

Acq: 7 Nov 2022 13:01

Tgt Ion: 63 Resp: 563833

Ion	Ratio	Lower	Upper
63	100		
41	66.4	51.0	76.4
62	70.3	56.6	85.0





#41

Tetrahydrofuran

Concen: 4.784 ppbv

RT: 5.218 min Scan# 81

Delta R.T. -0.334 min

Lab File: VL039837.D

Acq: 7 Nov 2022 13:01

Instrument :

MSVOA_L

ClientSampleId :

E062-1100DL2

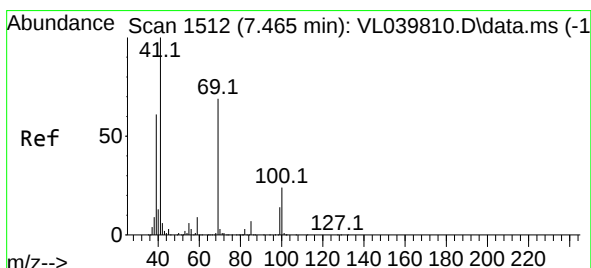
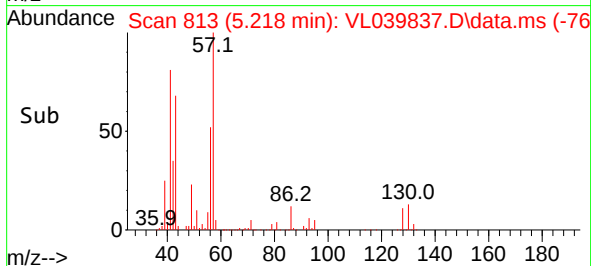
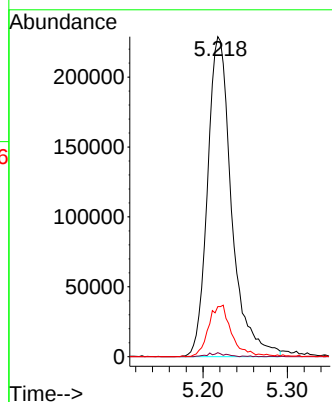
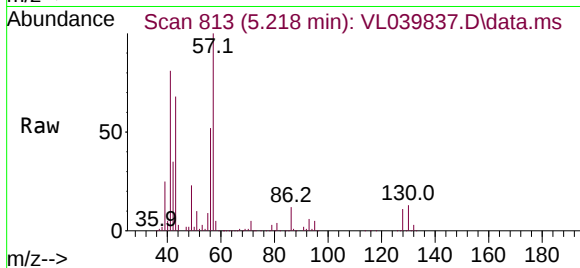
Tgt Ion: 42 Resp: 454599

Ion Ratio Lower Upper

42 100

72 0.9 31.4 47.2#

71 15.9 31.5 47.3#



#43

Methyl Methacrylate

Concen: 0.087 ppbv

RT: 7.574 min Scan# 1546

Delta R.T. 0.109 min

Lab File: VL039837.D

Acq: 7 Nov 2022 13:01

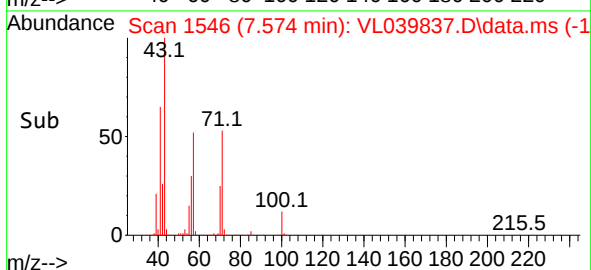
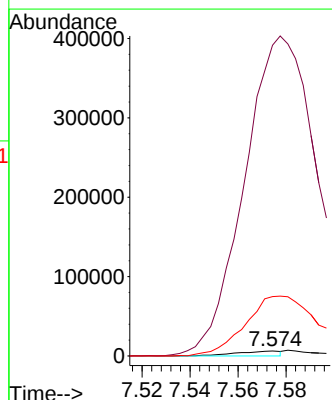
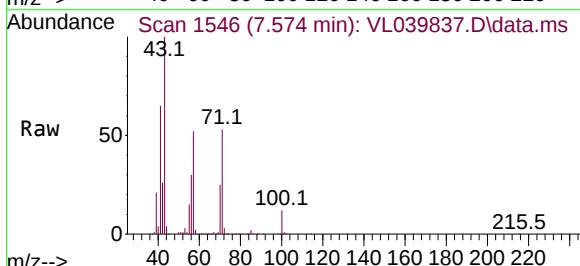
Tgt Ion: 69 Resp: 8026

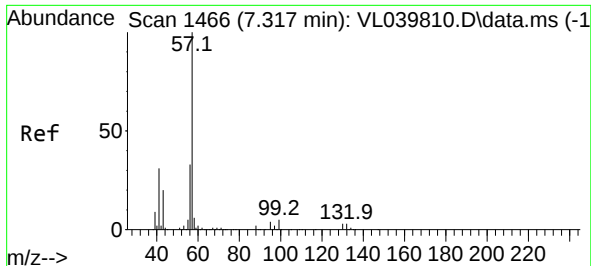
Ion Ratio Lower Upper

69 100

41 0.0 115.7 173.5#

100 0.0 25.9 38.9#

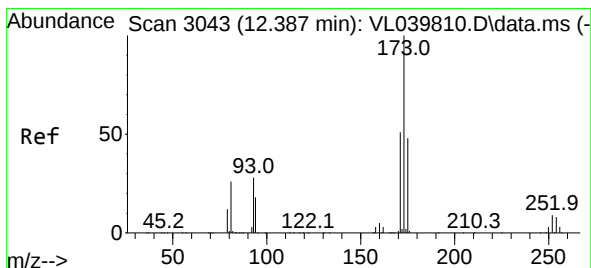
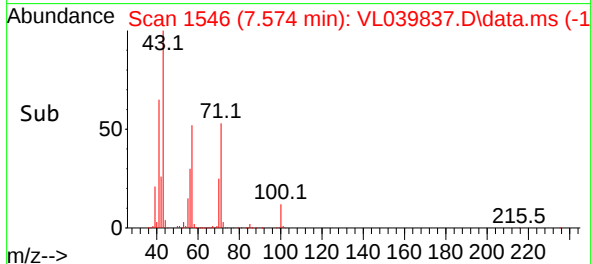
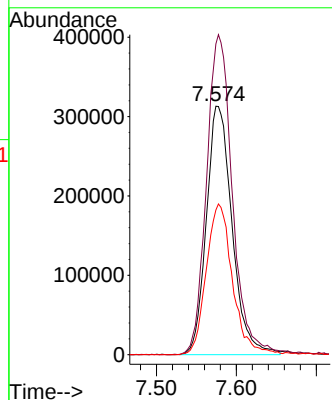
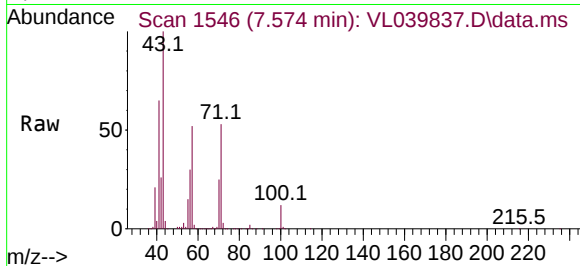




#44
2,2,4-Trimethylpentane
Concen: 1.787 ppbv
RT: 7.574 min Scan# 11
Delta R.T. 0.257 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

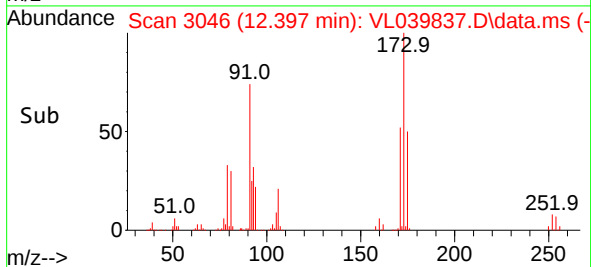
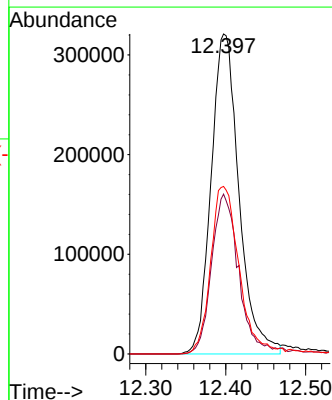
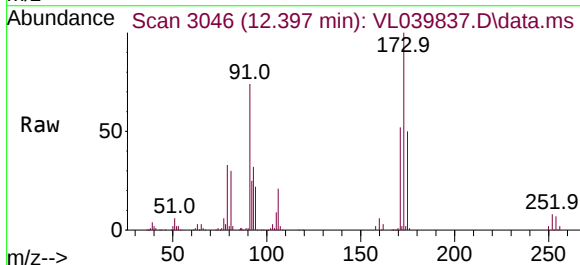
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DL2

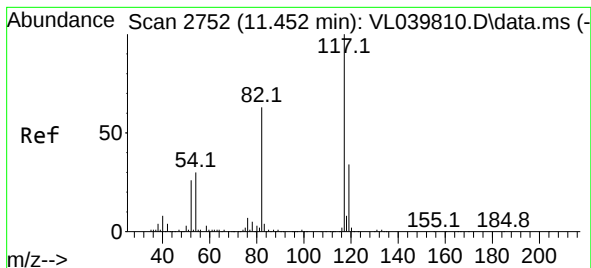
Tgt Ion: 57 Resp: 701321
Ion Ratio Lower Upper
57 100
41 130.0 24.6 36.8#
56 62.4 25.4 38.0#



#49
Bromoform
Concen: 6.185 ppbv
RT: 12.397 min Scan# 3046
Delta R.T. 0.010 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

Tgt Ion: 173 Resp: 777035
Ion Ratio Lower Upper
173 100
175 50.1 39.7 59.5
171 55.0 41.7 62.5

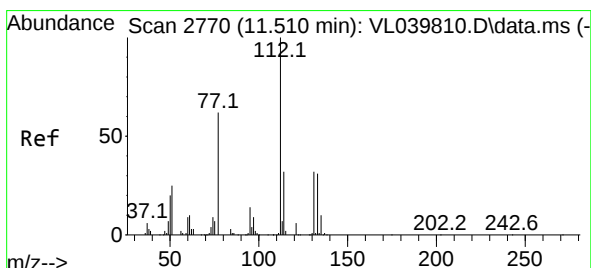
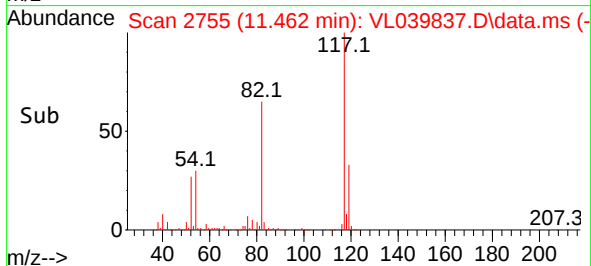
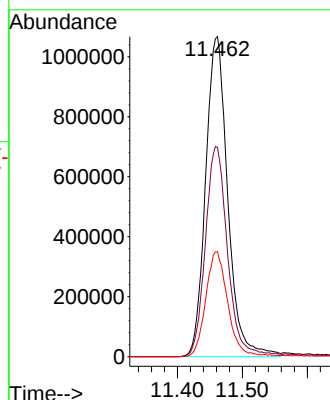
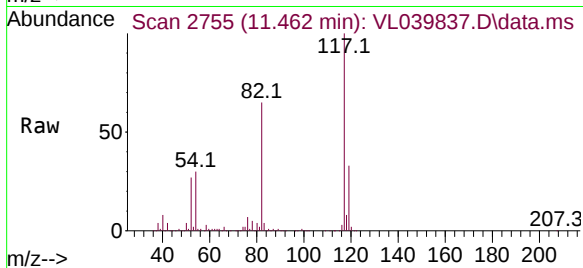




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

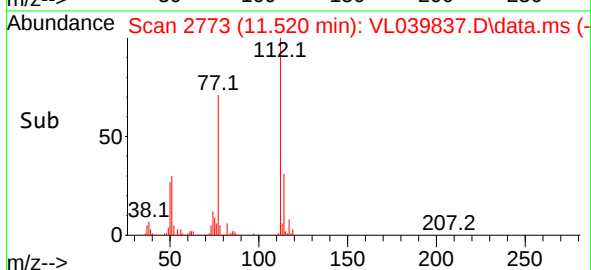
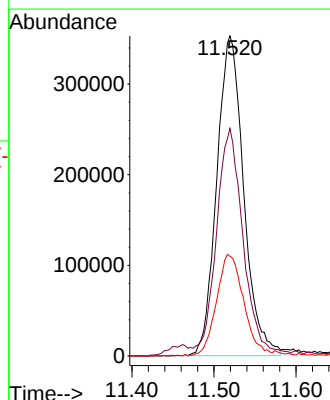
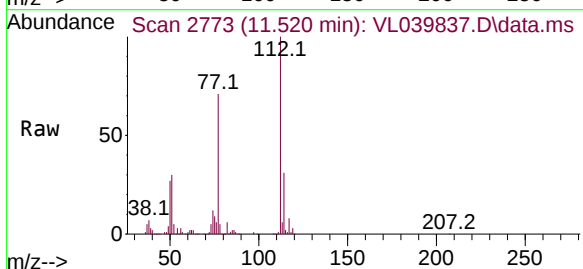
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DL2

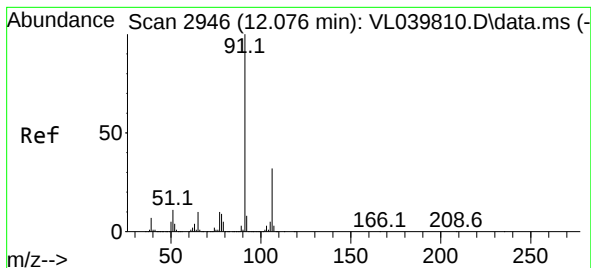
Tgt Ion:117 Resp: 2530321
Ion Ratio Lower Upper
117 100
82 67.4 51.0 76.6
119 33.4 24.7 37.1



#57
Chlorobenzene
Concen: 4.187 ppbv
RT: 11.520 min Scan# 2773
Delta R.T. 0.010 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

Tgt Ion:112 Resp: 803585
Ion Ratio Lower Upper
112 100
77 69.0 49.8 74.6
114 31.1 29.0 35.4





#58

Ethyl Benzene

Concen: 5.233 ppbv

RT: 12.368 min Scan# 3037

Delta R.T. 0.293 min

Lab File: VL039837.D

Acq: 7 Nov 2022 13:01

Instrument :

MSVOA_L

ClientSampleId :

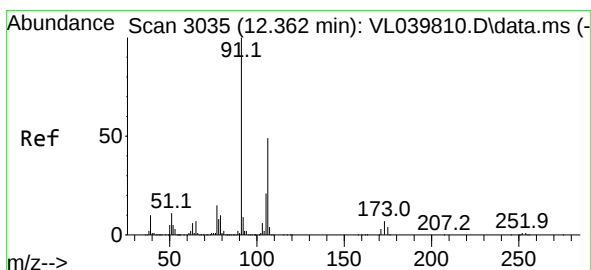
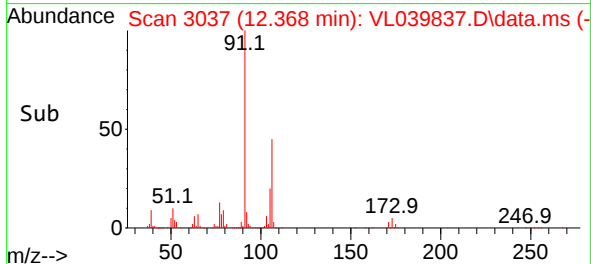
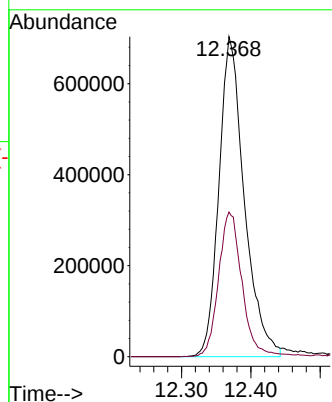
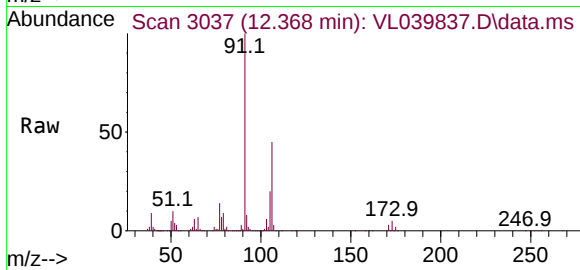
E062-1100DL2

Tgt Ion: 91 Resp: 1790237

Ion Ratio Lower Upper

91 100

106 45.2 25.9 38.9#



#59

m/p-Xylene

Concen: 6.269 ppbv

RT: 12.368 min Scan# 3037

Delta R.T. 0.007 min

Lab File: VL039837.D

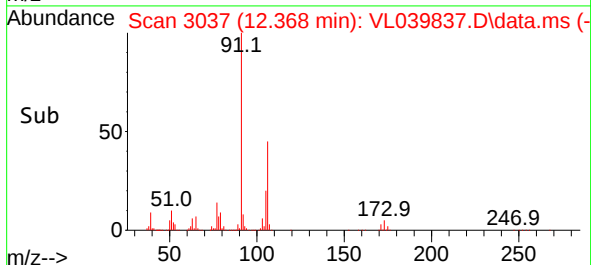
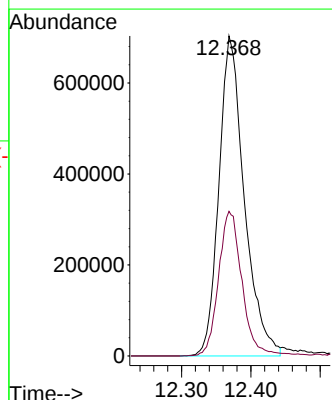
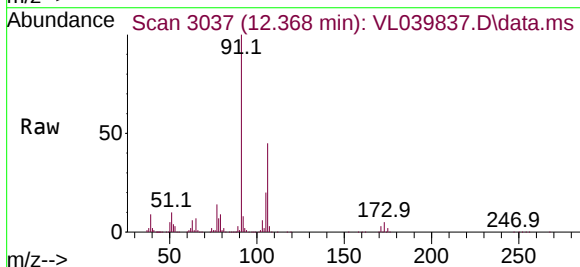
Acq: 7 Nov 2022 13:01

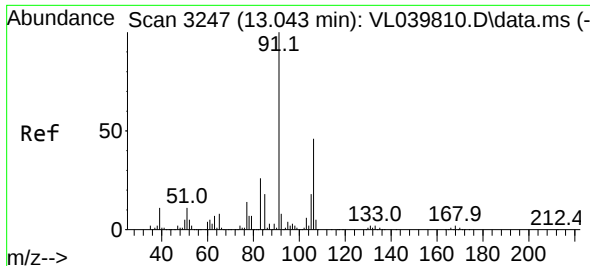
Tgt Ion: 91 Resp: 1790237

Ion Ratio Lower Upper

91 100

106 42.4 37.6 56.4

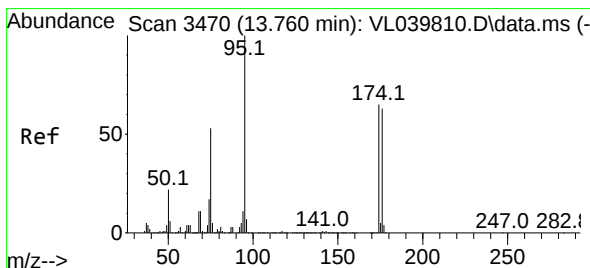
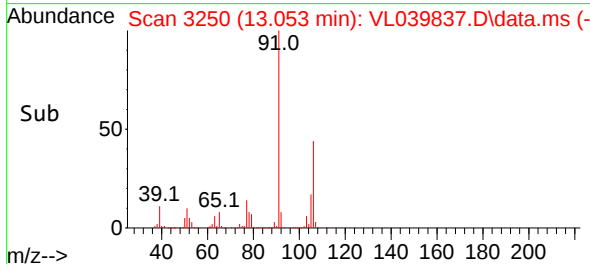
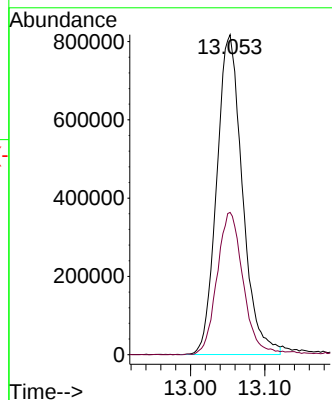
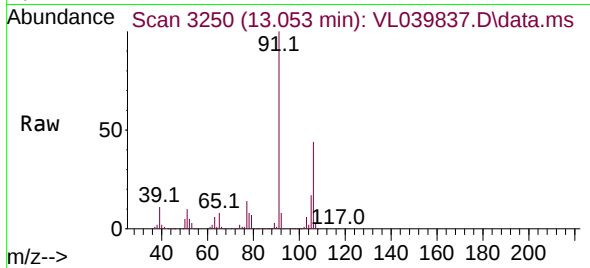




#60
o-Xylene
Concen: 7.267 ppbv
RT: 13.053 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

Instrument :
MSVOA_L
ClientSampleId :
E062-1100DL2

Tgt Ion: 91 Resp: 1966186
Ion Ratio Lower Upper
91 100
106 46.4 23.6 70.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.518 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. 0.010 min
Lab File: VL039837.D
Acq: 7 Nov 2022 13:01

Tgt Ion: 95 Resp: 1991958
Ion Ratio Lower Upper
95 100
174 63.7 53.4 80.0
175 4.6 4.1 6.1

