

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110722\
 Data File : VL039841.D
 Acq On : 7 Nov 2022 15:56
 Operator : SY/AP
 Sample : N5409-01DL 2.5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E062-1100DL

Quant Time: Nov 08 06:14:25 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	1043545	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2574842	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2333355	10.000	ppbv	0.00

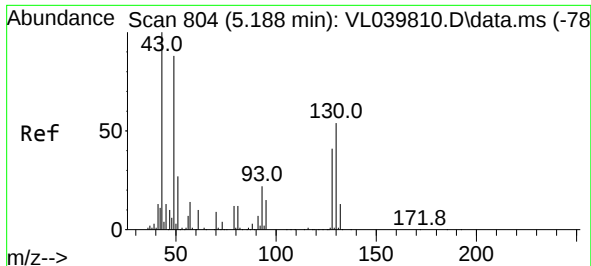
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1886489	10.802	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.000%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.748	85	6250	0.035	ppbv #	87
3) Chlorodifluoromethane	2.693	51	7123	0.057	ppbv	98
4) Chloromethane	2.829	50	418195	5.399	ppbv	98
6) Bromomethane	3.147	94	747	0.033	ppbv #	35
9) Propene	2.710	41	734782	11.336	ppbv	98
10) Heptane	7.574	43	2024109	13.035	ppbv	100
13) Ethanol	3.259	45	10190	2.224	ppbv #	41
15) Acetone	3.481	43	368113	2.898	ppbv	99
16) 1,3-Butadiene	2.710	39	617308	10.450	ppbv #	5
17) tert-Butyl alcohol	3.912	59	3952	0.033	ppbv #	70
20) Methylene Chloride	3.941	84	2168076	47.711	ppbv	94
23) Vinyl Acetate	4.629	43	2765	0.055	ppbv #	43
25) Ethyl Acetate	5.218	43	1476446	5.643	ppbv #	76
26) Hexane	5.218	57	2157694	18.496	ppbv #	37
30) Cyclohexane	6.600	84	672539	6.894	ppbv	98
34) 2-Butanone	5.218	43	1462625	13.770	ppbv #	54
36) Benzene	6.369	78	3056784	14.074	ppbv	96
39) 1,2-Dichloropropane	7.070	63	850544	10.051	ppbv	96
41) Tetrahydrofuran	5.218	42	776871	8.751	ppbv #	49
44) 2,2,4-Trimethylpentane	7.574	57	1019213	2.780	ppbv #	1
49) Bromoform	12.394	173	1147792	9.780	ppbv	98
57) Chlorobenzene	11.516	112	1158962	6.548	ppbv	94
58) Ethyl Benzene	12.368	91	2590830	8.212	ppbv #	78
59) m/p-Xylene	12.368	91	2590830	9.838	ppbv	92
60) o-Xylene	13.053	91	2842829	11.394	ppbv	97
62) Isopropylbenzene	14.018	105	17104	0.047	ppbv	97

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

Quant Time: Nov 08 06:14:25 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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: VL039841.D

Acq: 7 Nov 2022 15:56

Instrument :

MSVOA_L

ClientSampleId :

E062-1100DL

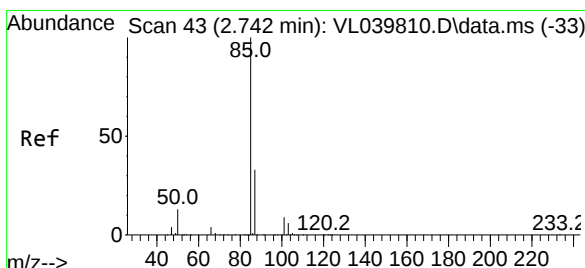
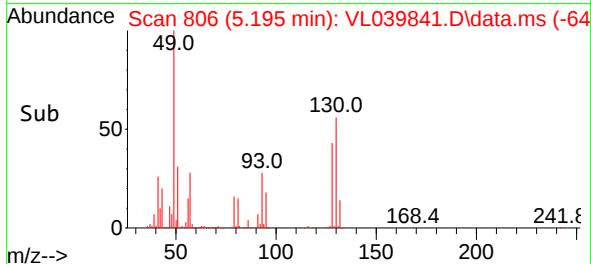
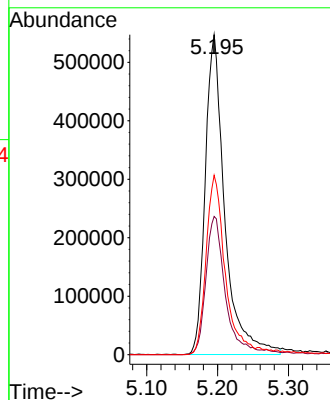
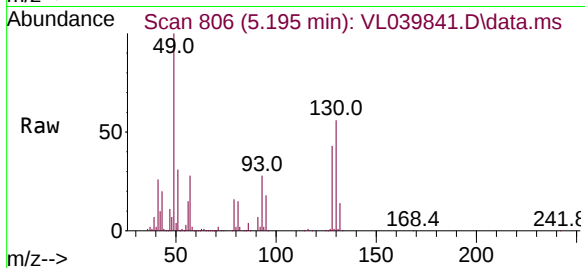
Tgt Ion: 49 Resp: 1043545

Ion Ratio Lower Upper

49 100

128 44.6 24.6 73.6

130 57.6 31.1 93.2



#2

Dichlorodifluoromethane

Concen: 0.035 ppbv

RT: 2.748 min Scan# 45

Delta R.T. 0.007 min

Lab File: VL039841.D

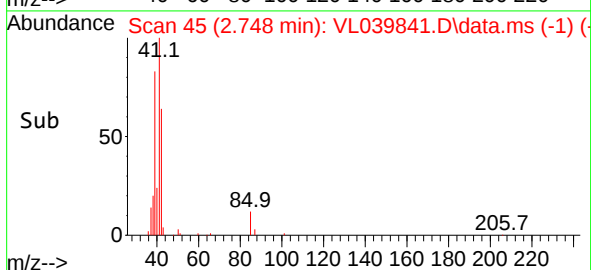
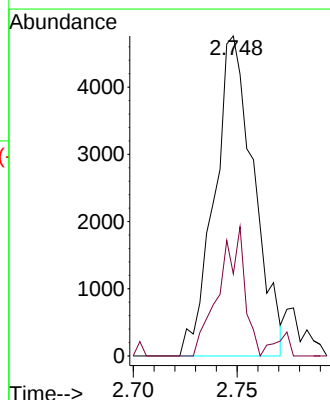
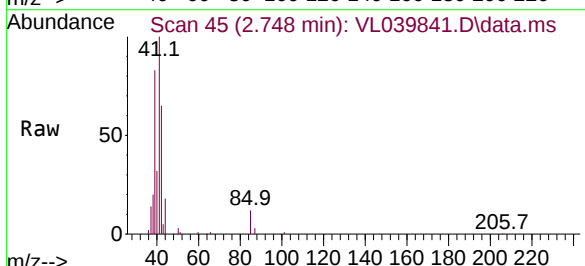
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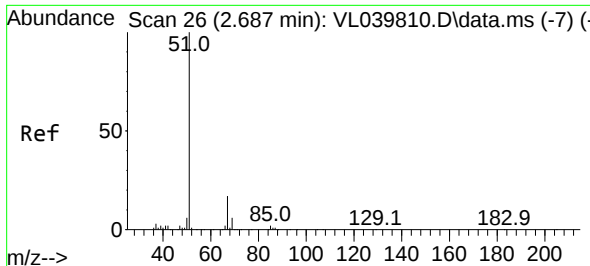
Tgt Ion: 85 Resp: 6250

Ion Ratio Lower Upper

85 100

87 25.6 26.4 39.6#

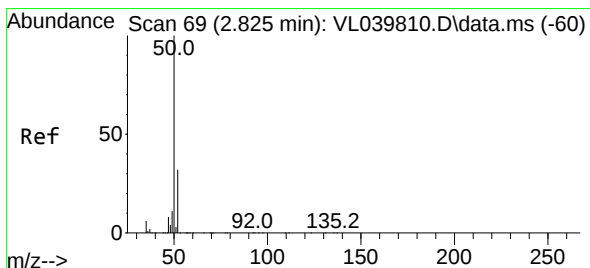
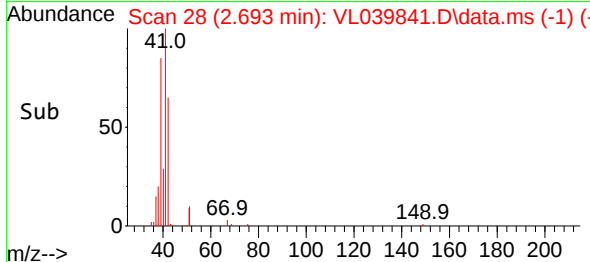
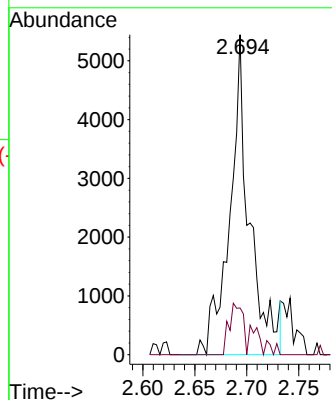
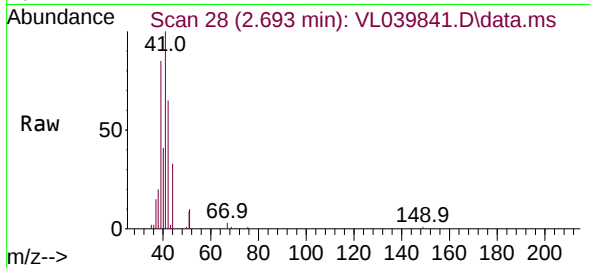




#3
Chlorodifluoromethane
Concen: 0.057 ppbv
RT: 2.693 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

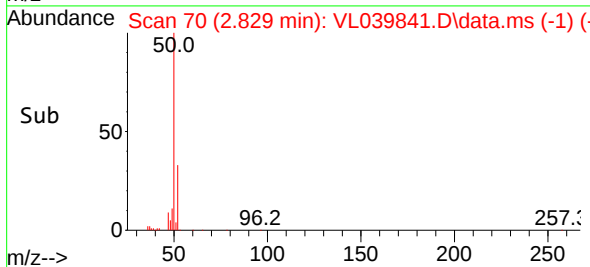
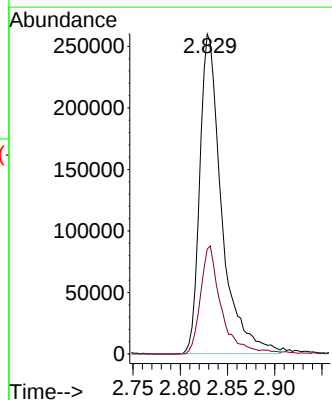
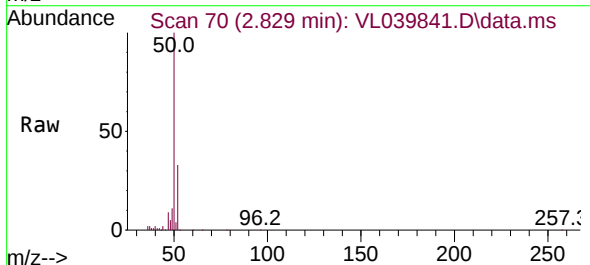
Instrument :
MSVOA_L
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E062-1100DL

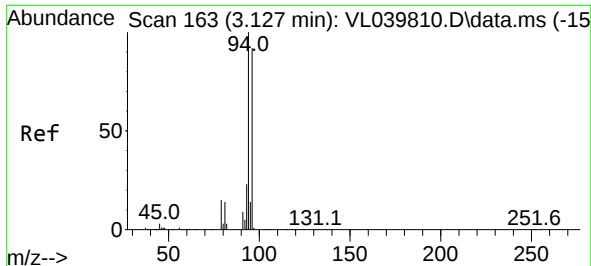
Tgt Ion: 51 Resp: 7123
Ion Ratio Lower Upper
51 100
67 17.2 13.2 19.8



#4
Chloromethane
Concen: 5.399 ppbv
RT: 2.829 min Scan# 70
Delta R.T. 0.003 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

Tgt Ion: 50 Resp: 418195
Ion Ratio Lower Upper
50 100
52 32.9 25.5 38.3

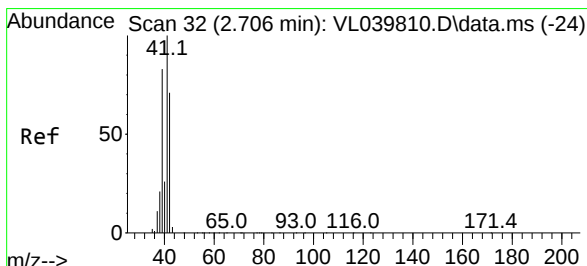
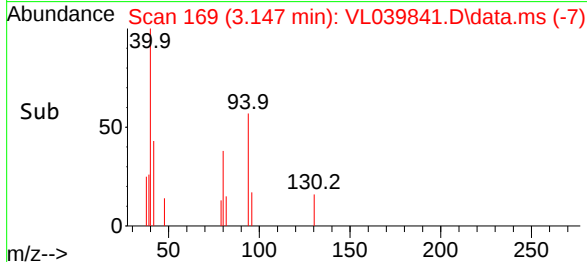
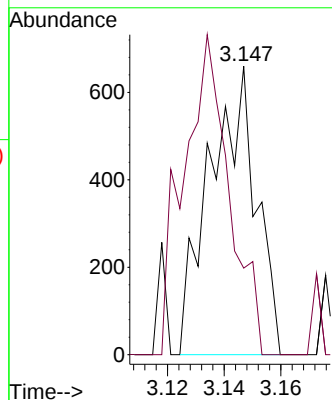
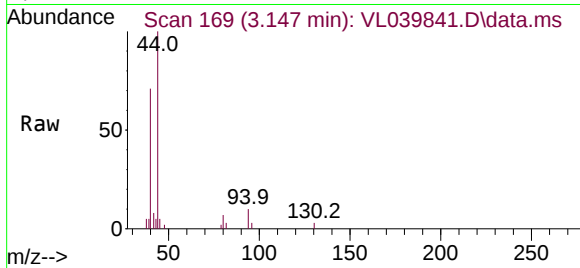




#6
Bromomethane
Concen: 0.033 ppbv
RT: 3.147 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

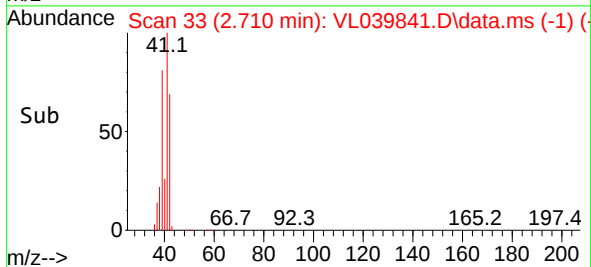
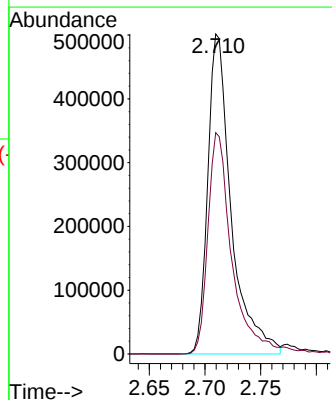
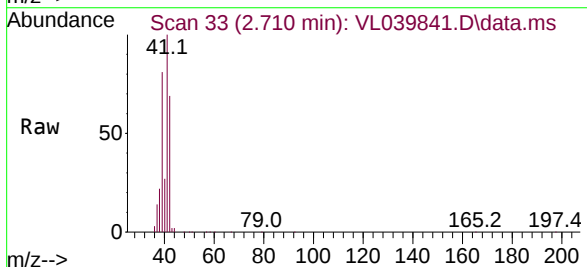
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DL

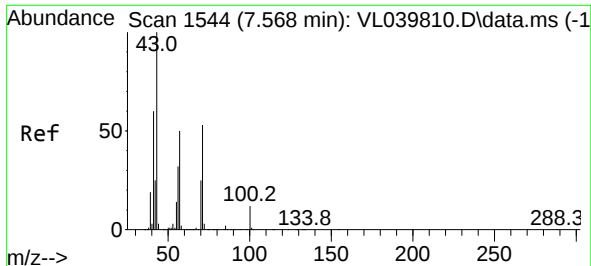
Tgt Ion: 94 Resp: 747
Ion Ratio Lower Upper
94 100
96 30.0 73.5 110.3#



#9
Propene
Concen: 11.336 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.003 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

Tgt Ion: 41 Resp: 734782
Ion Ratio Lower Upper
41 100
42 72.3 56.3 84.5

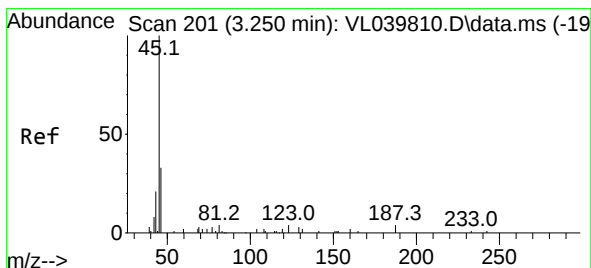
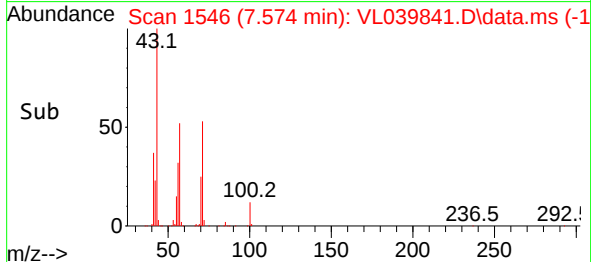
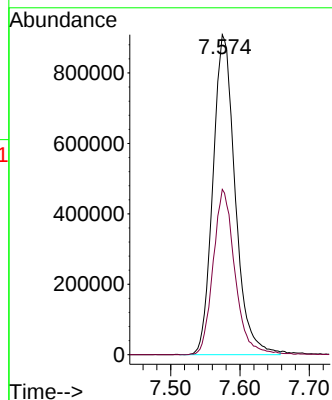
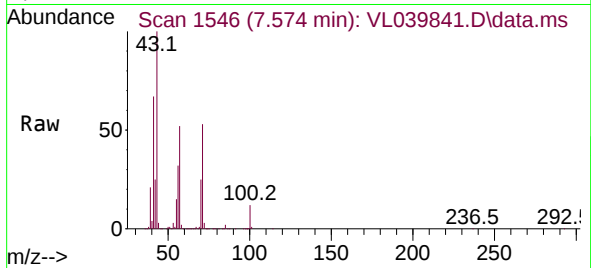




#10
Heptane
Concen: 13.035 ppbv
RT: 7.574 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

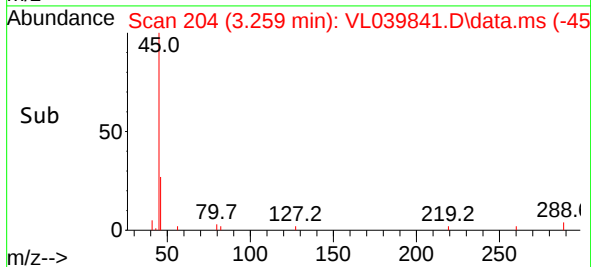
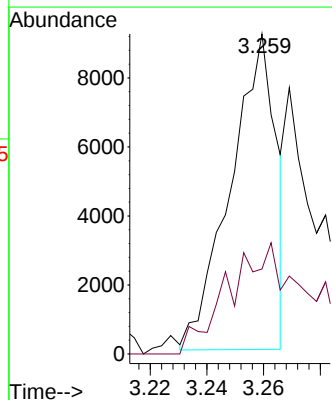
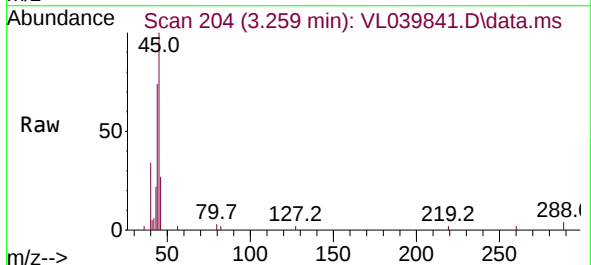
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DL

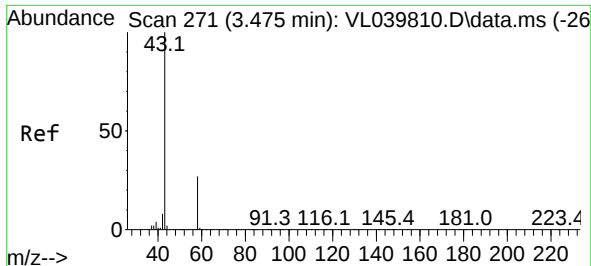
Tgt Ion: 43 Resp: 2024109
Ion Ratio Lower Upper
43 100
57 50.9 40.5 60.7



#13
Ethanol
Concen: 2.224 ppbv
RT: 3.259 min Scan# 204
Delta R.T. 0.010 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

Tgt Ion: 45 Resp: 10190
Ion Ratio Lower Upper
45 100
46 78.0 16.5 65.9

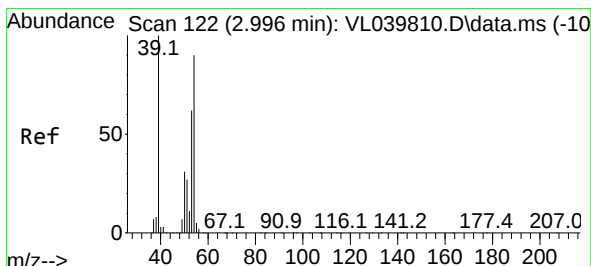
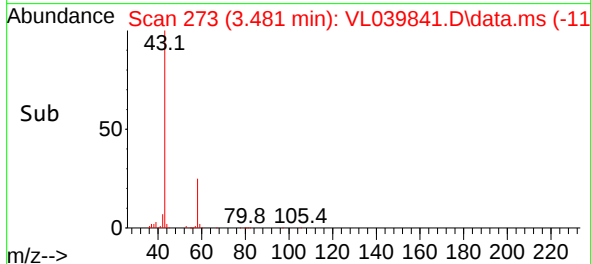
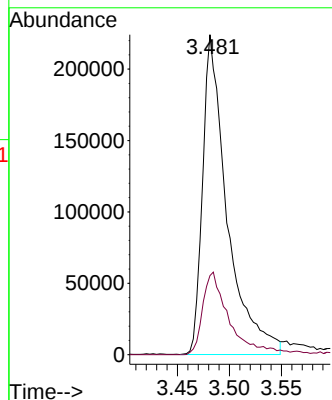
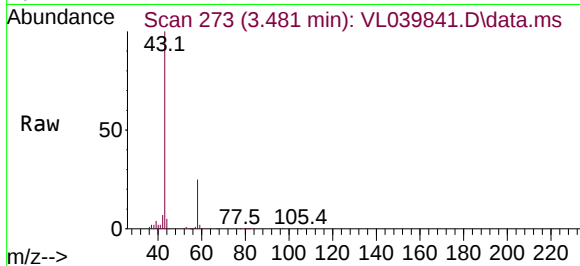




#15
Acetone
Concen: 2.898 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

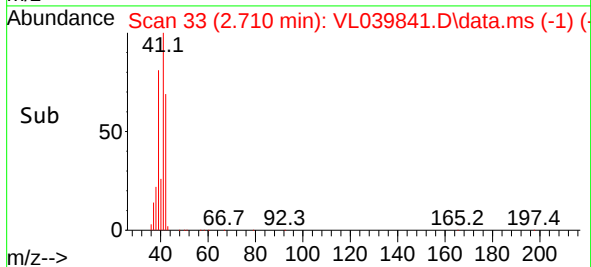
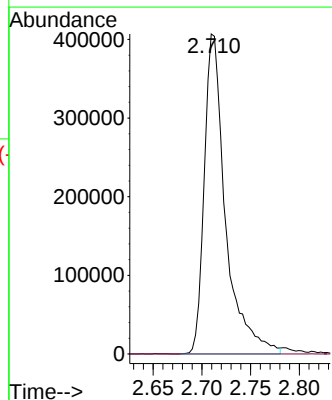
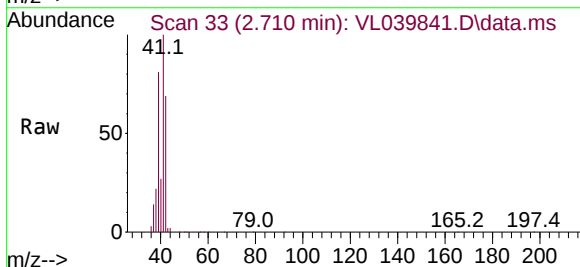
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DL

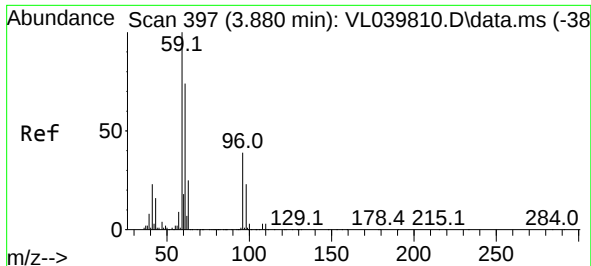
Tgt Ion: 43 Resp: 368113
Ion Ratio Lower Upper
43 100
58 28.4 23.2 34.8



#16
1,3-Butadiene
Concen: 10.450 ppbv
RT: 2.710 min Scan# 33
Delta R.T. -0.286 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

Tgt Ion: 39 Resp: 617308
Ion Ratio Lower Upper
39 100
54 0.0 71.0 106.4#





#17

tert-Butyl alcohol

Concen: 0.033 ppbv

RT: 3.912 min Scan# 407

Delta R.T. 0.032 min

Lab File: VL039841.D

Acq: 7 Nov 2022 15:56

Instrument :

MSVOA_L

ClientSampleId :

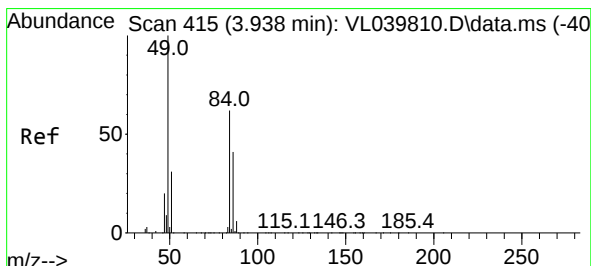
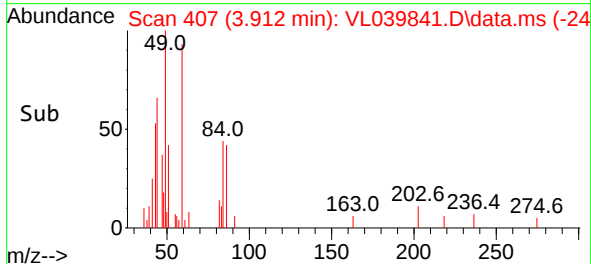
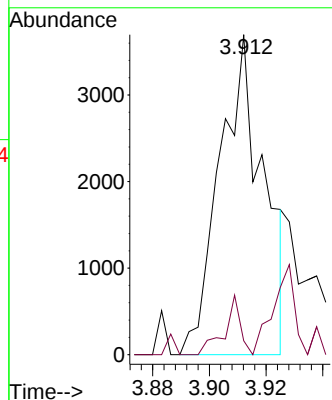
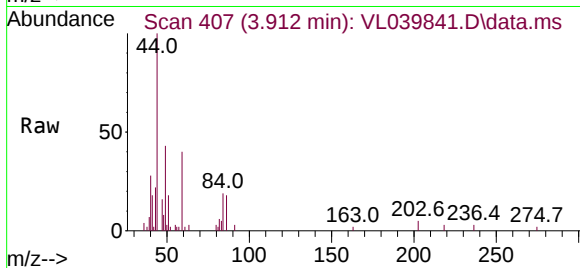
E062-1100DL

Tgt Ion: 59 Resp: 3952

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



#20

Methylene Chloride

Concen: 47.711 ppbv

RT: 3.941 min Scan# 416

Delta R.T. 0.003 min

Lab File: VL039841.D

Acq: 7 Nov 2022 15:56

Tgt Ion: 84 Resp: 2168076

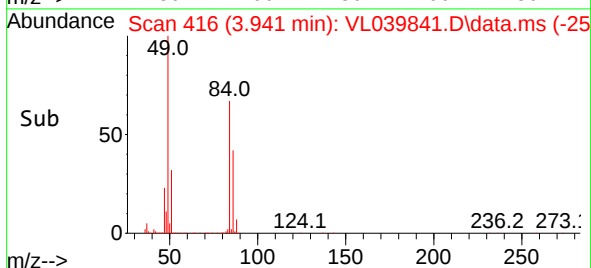
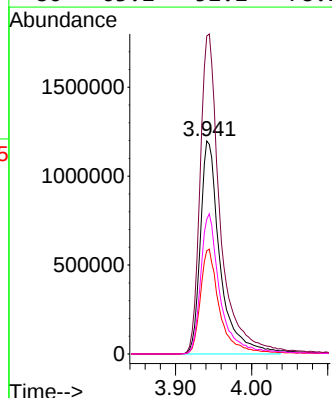
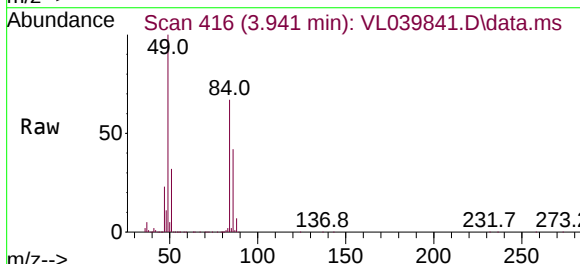
Ion Ratio Lower Upper

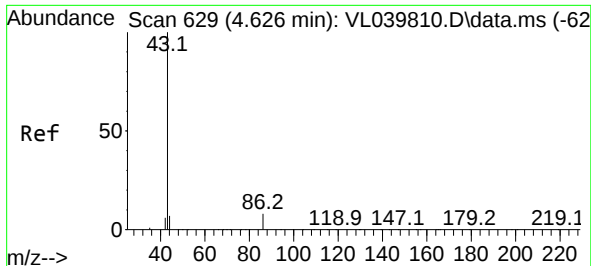
84 100

49 149.2 128.6 192.8

51 48.4 40.2 60.4

86 63.2 52.2 78.2



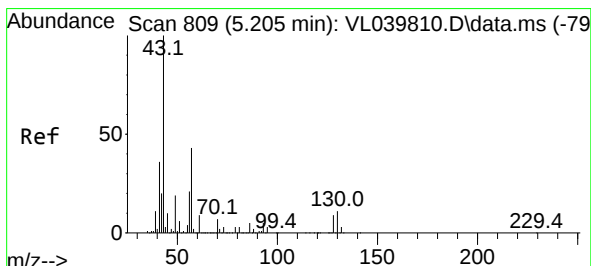
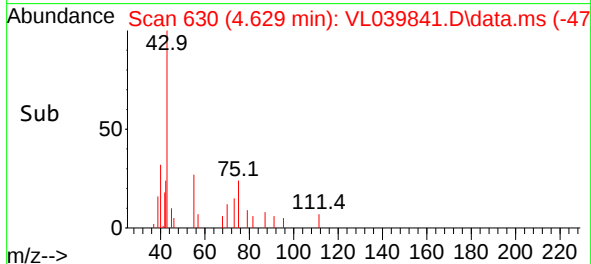
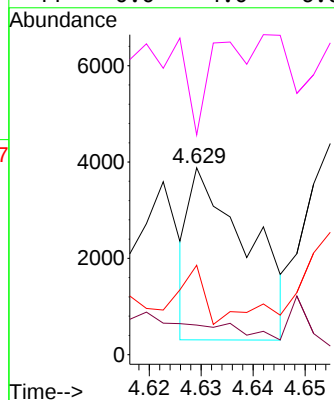
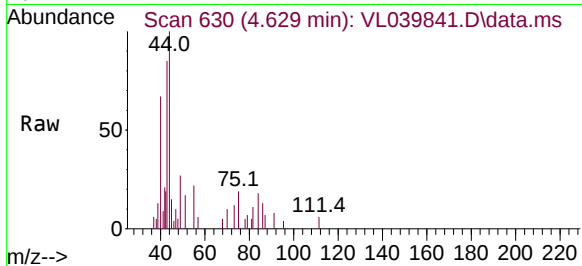


#23
 Vinyl Acetate
 Concen: 0.055 ppbv
 RT: 4.629 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL039841.D
 Acq: 7 Nov 2022 15:56

Instrument :
 MSVOA_L
 ClientSampleId :
 E062-1100DL

Tgt Ion: 43 Resp: 2765

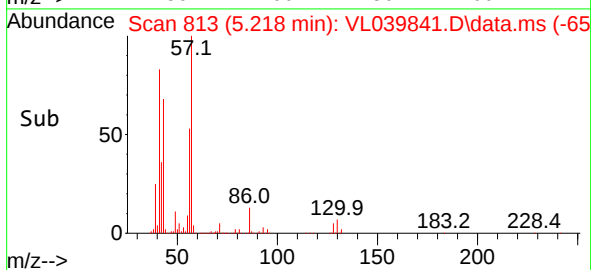
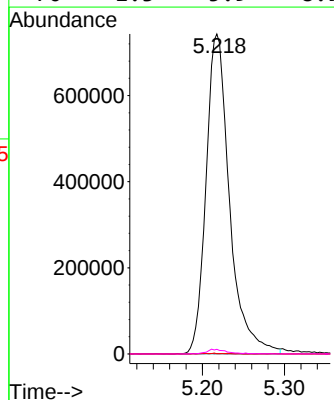
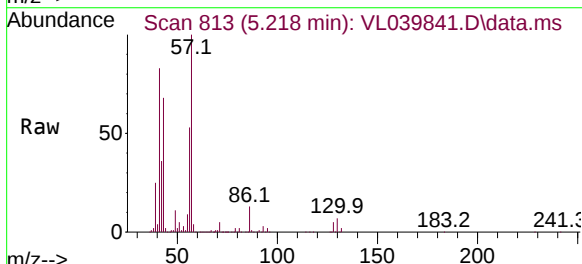
Ion	Ratio	Lower	Upper
43	100		
86	13.8	5.0	7.4#
42	46.7	6.8	10.2#
44	0.0	4.0	6.0#

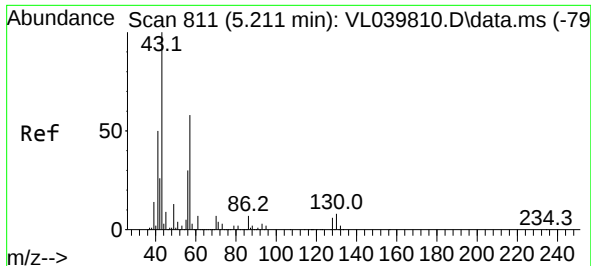


#25
 Ethyl Acetate
 Concen: 5.643 ppbv
 RT: 5.218 min Scan# 813
 Delta R.T. 0.013 min
 Lab File: VL039841.D
 Acq: 7 Nov 2022 15:56

Tgt Ion: 43 Resp: 1476446

Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.2	12.2#
61	0.2	8.1	12.1#
70	1.3	5.9	8.9#



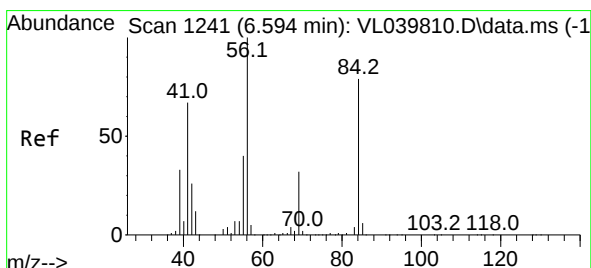
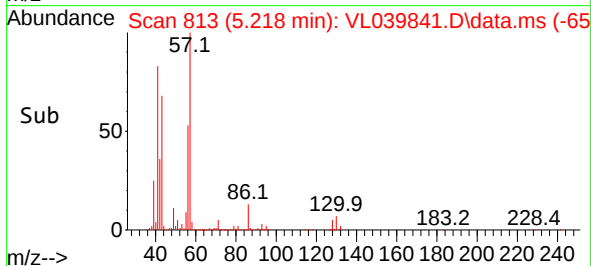
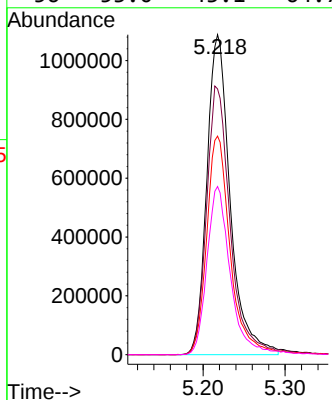
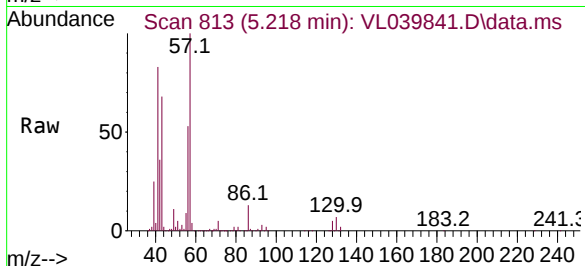


#26
Hexane
Concen: 18.496 ppbv
RT: 5.218 min Scan# 811
Delta R.T. 0.007 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

Instrument :
MSVOA_L
ClientSampleId :
E062-1100DL

Tgt Ion: 57 Resp: 2157694

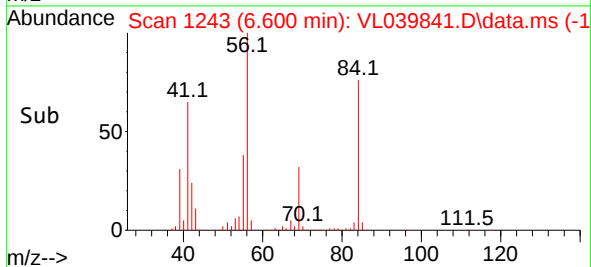
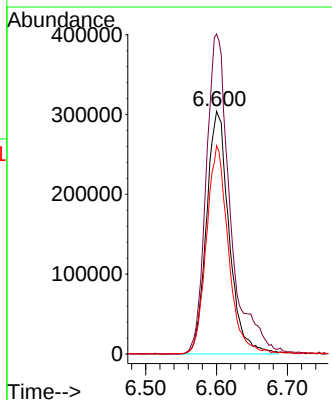
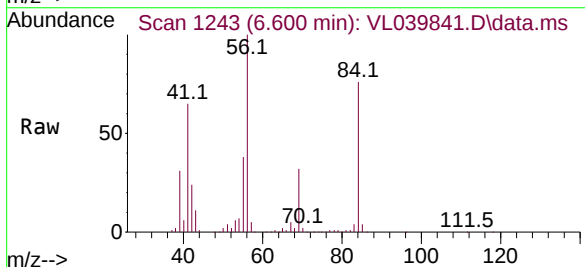
Ion	Ratio	Lower	Upper
57	100		
41	85.9	73.7	110.5
43	69.6	189.8	284.8
56	53.0	43.1	64.7

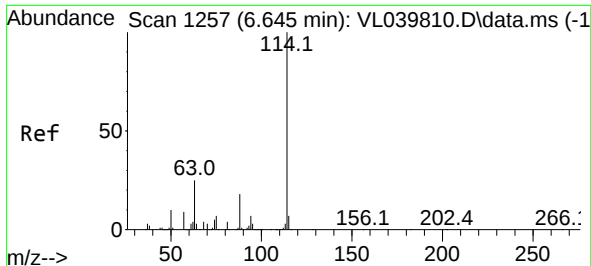


#30
Cyclohexane
Concen: 6.894 ppbv
RT: 6.600 min Scan# 1243
Delta R.T. 0.007 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

Tgt Ion: 84 Resp: 672539

Ion	Ratio	Lower	Upper
84	100		
56	141.8	114.8	172.2
41	83.9	68.6	103.0

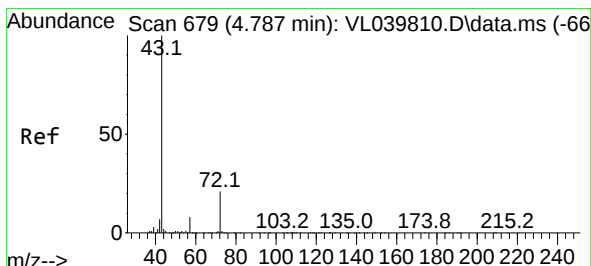
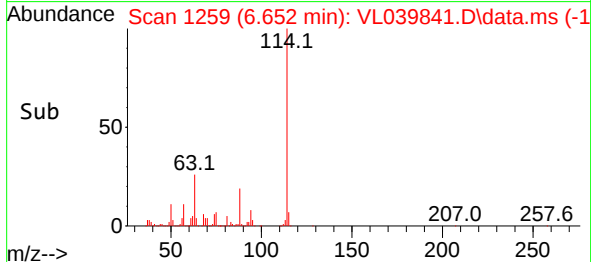
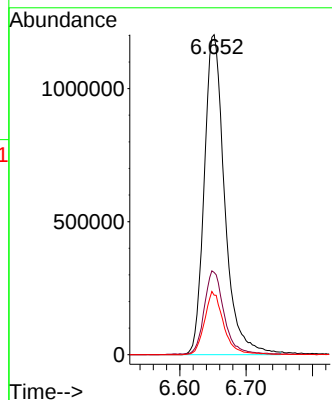
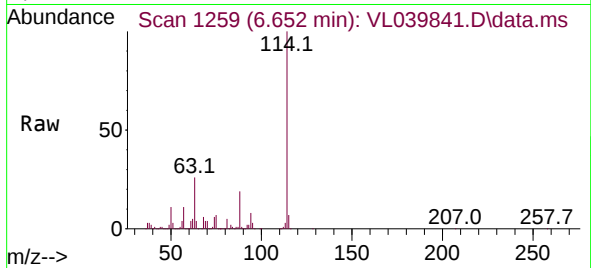




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.652 min Scan# 114
Delta R.T. 0.007 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

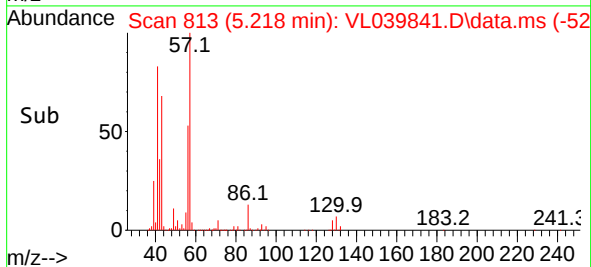
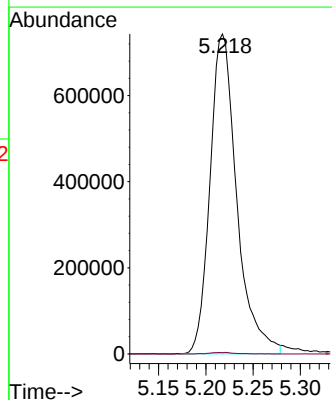
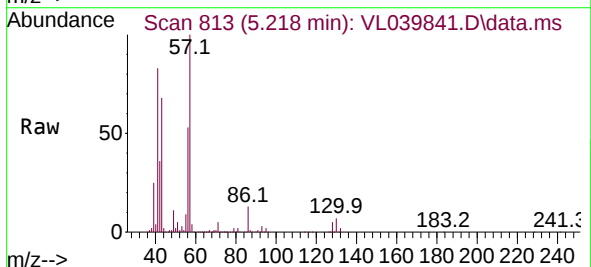
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DL

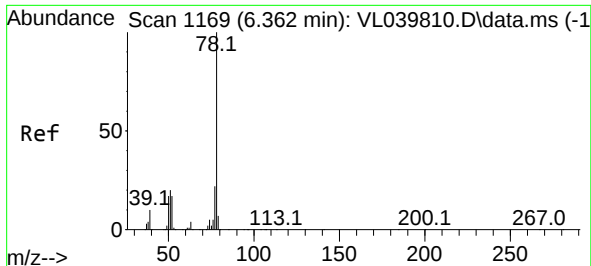
Tgt Ion:114 Resp: 2574842
Ion Ratio Lower Upper
114 100
63 26.1 19.8 29.6
88 18.6 14.4 21.6



#34
2-Butanone
Concen: 13.770 ppbv
RT: 5.218 min Scan# 813
Delta R.T. 0.431 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

Tgt Ion: 43 Resp: 1462625
Ion Ratio Lower Upper
43 100
72 0.0 17.5 26.3#





#36

Benzene

Concen: 14.074 ppbv

RT: 6.369 min Scan# 1169

Delta R.T. 0.007 min

Lab File: VL039841.D

Acq: 7 Nov 2022 15:56

Instrument :

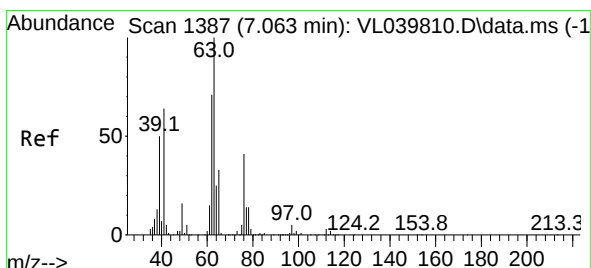
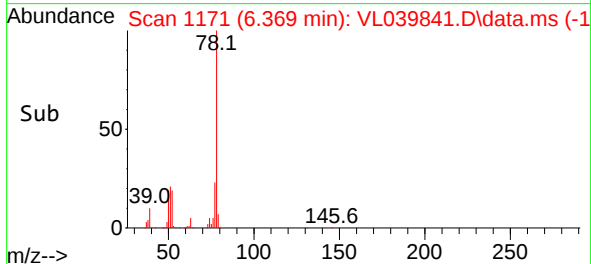
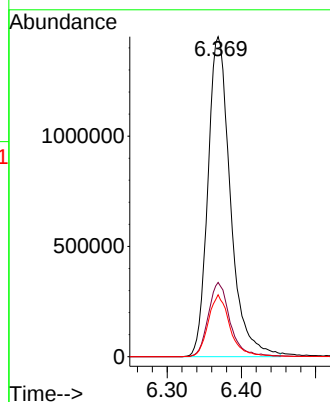
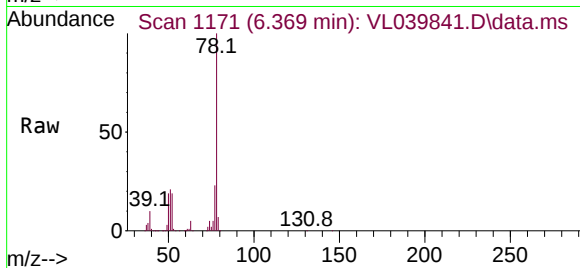
MSVOA_L

ClientSampleId :

E062-1100DL

Tgt Ion: 78 Resp: 3056784

Ion	Ratio	Lower	Upper
78	100		
77	23.2	17.4	26.2
50	19.3	13.9	20.9



#39

1,2-Dichloropropane

Concen: 10.051 ppbv

RT: 7.070 min Scan# 1389

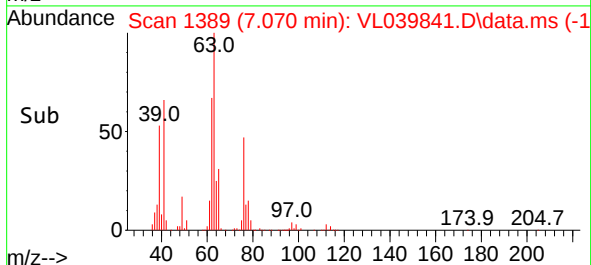
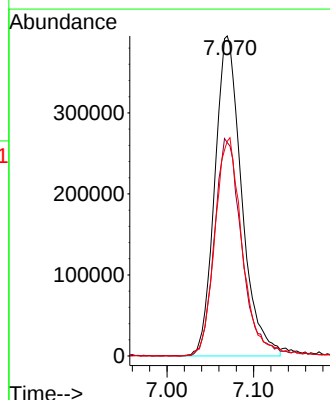
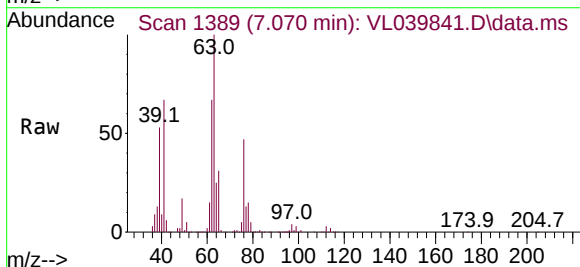
Delta R.T. 0.007 min

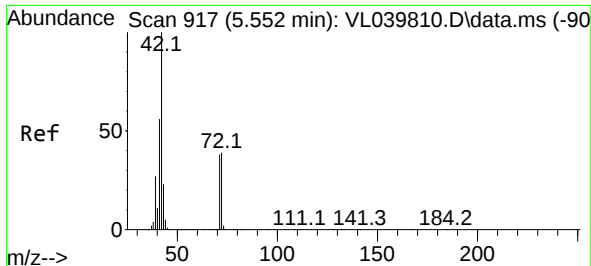
Lab File: VL039841.D

Acq: 7 Nov 2022 15:56

Tgt Ion: 63 Resp: 850544

Ion	Ratio	Lower	Upper
63	100		
41	66.7	51.0	76.4
62	67.1	56.6	85.0

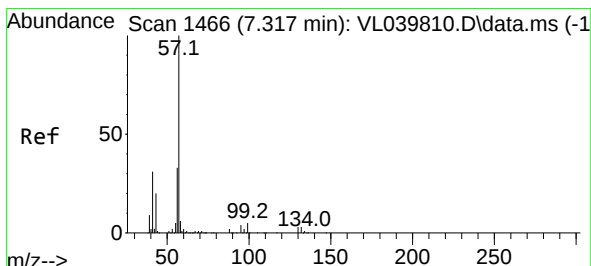
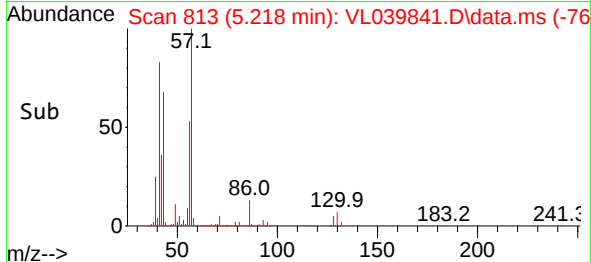
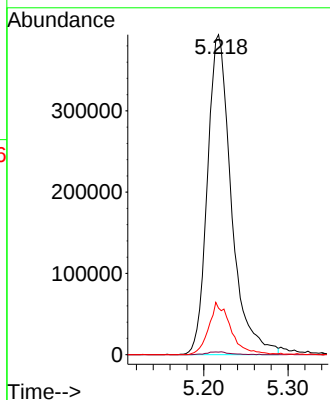
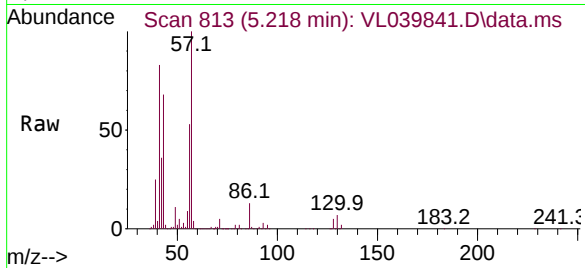




#41
Tetrahydrofuran
Concen: 8.751 ppbv
RT: 5.218 min Scan# 81
Delta R.T. -0.334 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

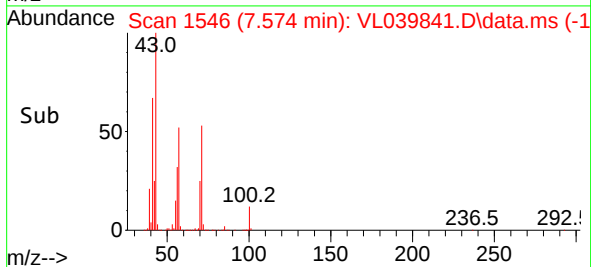
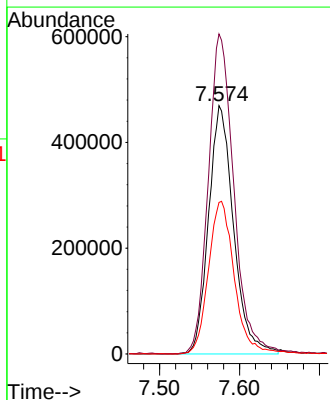
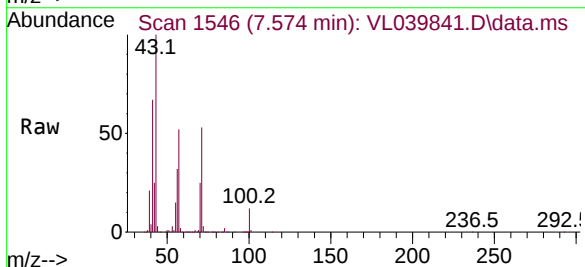
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DL

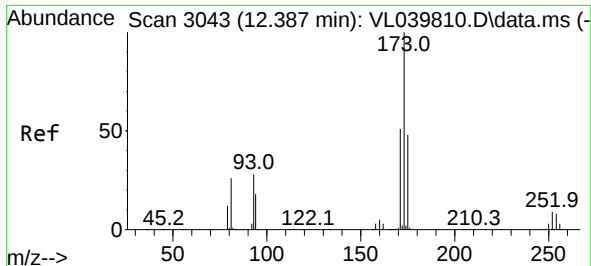
Tgt Ion: 42 Resp: 776871
Ion Ratio Lower Upper
42 100
72 0.8 31.4 47.2#
71 15.4 31.5 47.3#



#44
2,2,4-Trimethylpentane
Concen: 2.780 ppbv
RT: 7.574 min Scan# 1546
Delta R.T. 0.257 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

Tgt Ion: 57 Resp: 1019213
Ion Ratio Lower Upper
57 100
41 132.6 24.6 36.8#
56 64.0 25.4 38.0#

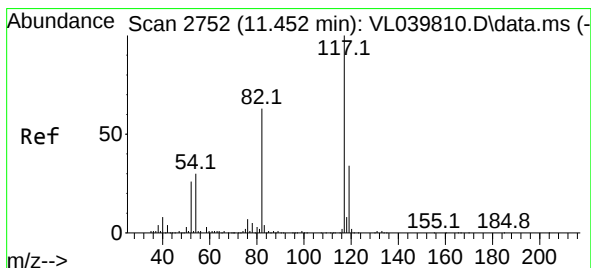
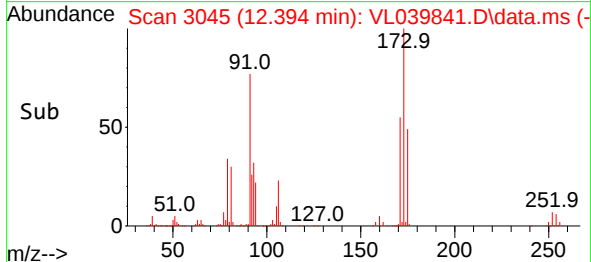
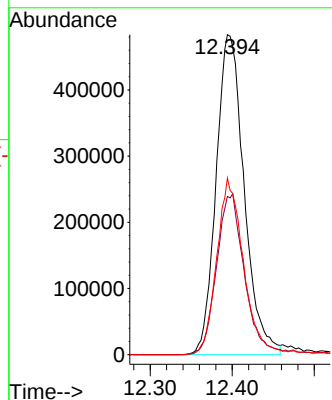
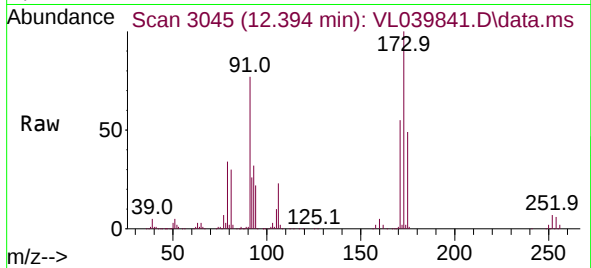




#49
Bromoform
Concen: 9.780 ppbv
RT: 12.394 min Scan# 3045
Delta R.T. 0.007 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

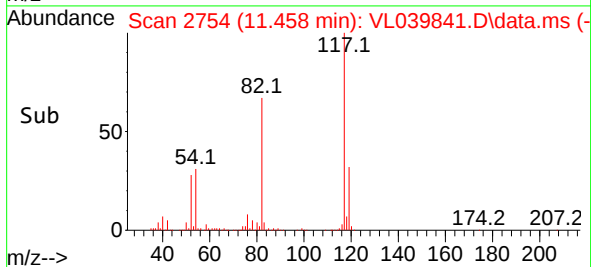
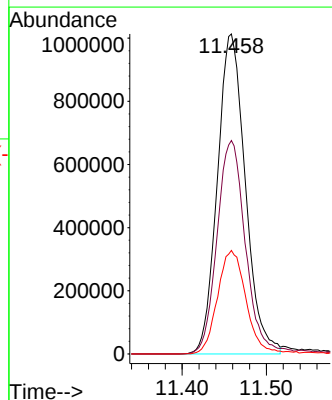
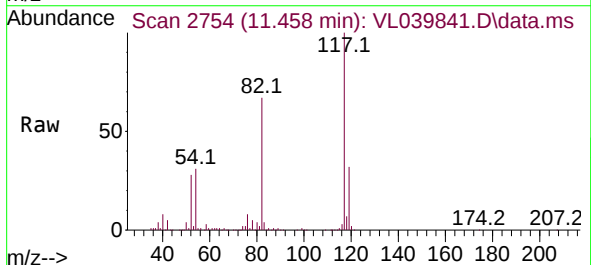
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DL

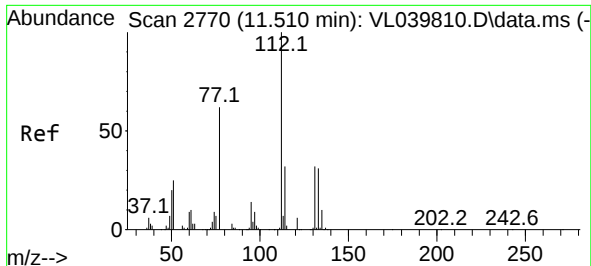
Tgt Ion:173 Resp: 1147792
Ion Ratio Lower Upper
173 100
175 51.1 39.7 59.5
171 53.9 41.7 62.5



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 2754
Delta R.T. 0.007 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

Tgt Ion:117 Resp: 2333355
Ion Ratio Lower Upper
117 100
82 69.0 51.0 76.6
119 33.6 24.7 37.1

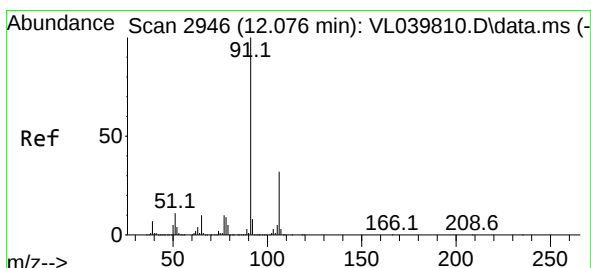
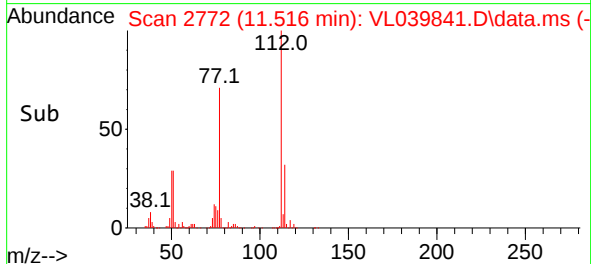
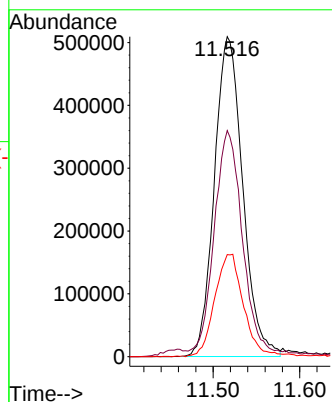
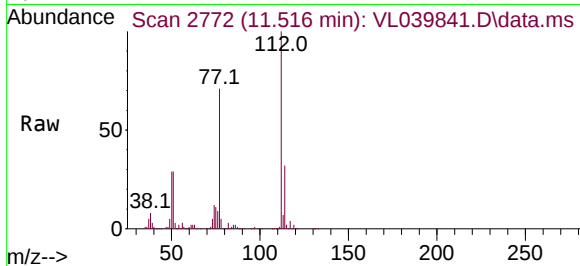




#57
Chlorobenzene
Concen: 6.548 ppbv
RT: 11.516 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

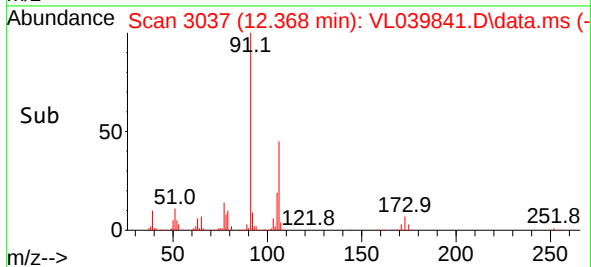
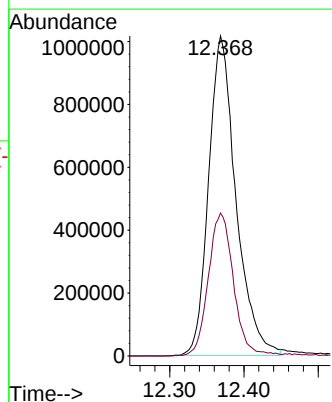
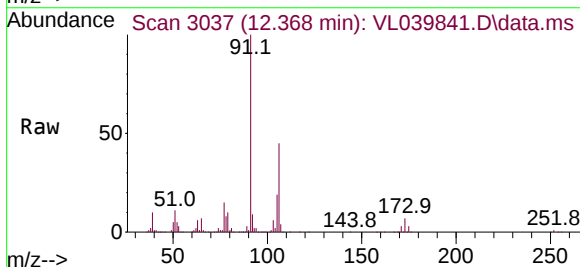
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DL

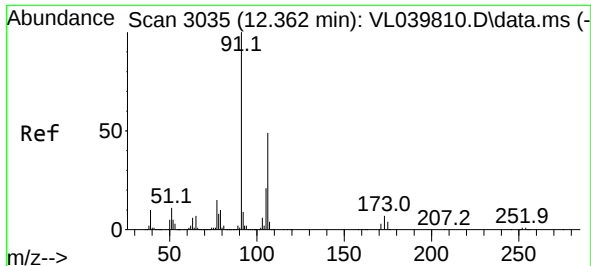
Tgt Ion:112 Resp: 1158962
Ion Ratio Lower Upper
112 100
77 69.0 49.8 74.6
114 31.8 29.0 35.4



#58
Ethyl Benzene
Concen: 8.212 ppbv
RT: 12.368 min Scan# 3037
Delta R.T. 0.293 min
Lab File: VL039841.D
Acq: 7 Nov 2022 15:56

Tgt Ion: 91 Resp: 2590830
Ion Ratio Lower Upper
91 100
106 44.5 25.9 38.9#





#59

m/p-Xylene

Concen: 9.838 ppbv

RT: 12.368 min Scan# 3035

Delta R.T. 0.007 min

Lab File: VL039841.D

Acq: 7 Nov 2022 15:56

Instrument :

MSVOA_L

ClientSampleId :

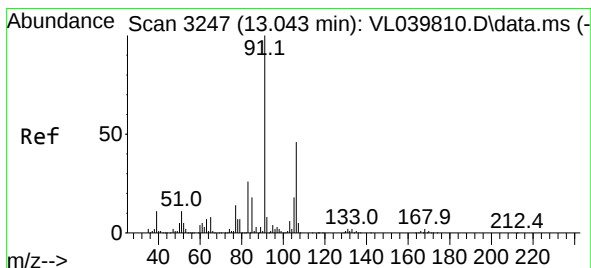
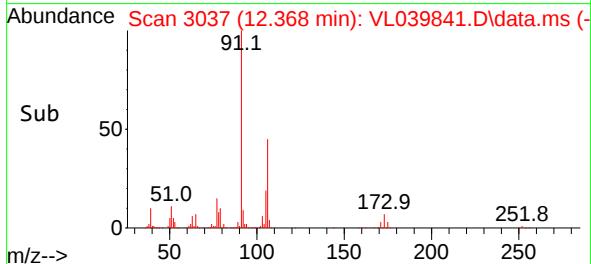
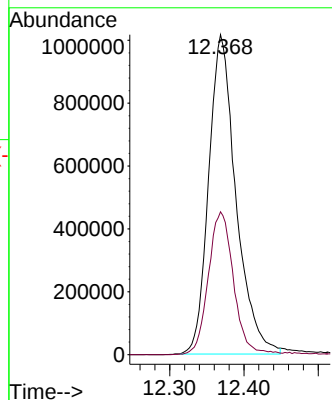
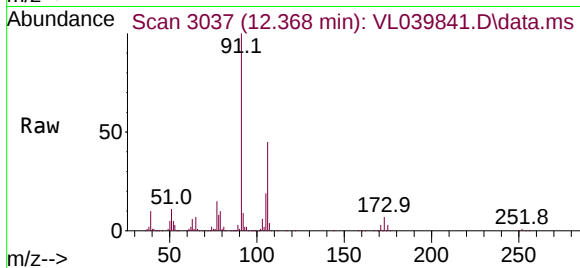
E062-1100DL

Tgt Ion: 91 Resp: 2590830

Ion Ratio Lower Upper

91 100

106 41.8 37.6 56.4



#60

o-Xylene

Concen: 11.394 ppbv

RT: 13.053 min Scan# 3250

Delta R.T. 0.010 min

Lab File: VL039841.D

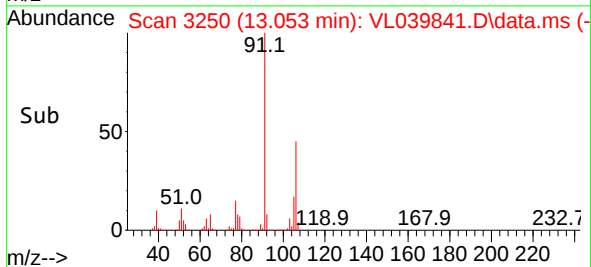
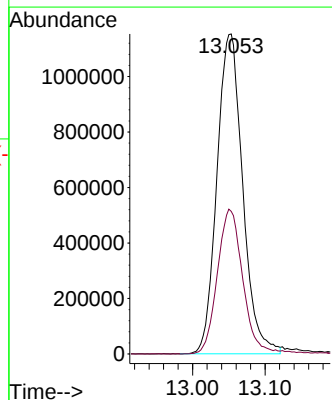
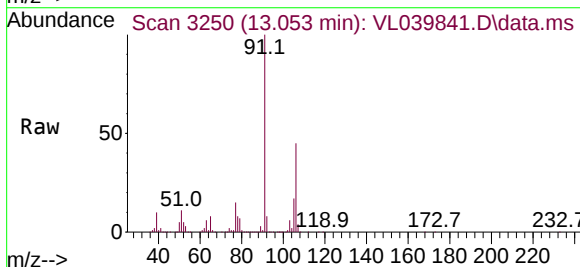
Acq: 7 Nov 2022 15:56

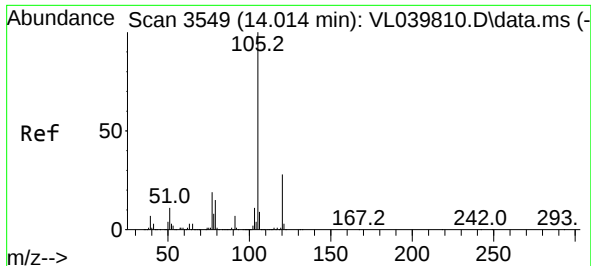
Tgt Ion: 91 Resp: 2842829

Ion Ratio Lower Upper

91 100

106 45.4 23.6 70.8





#62

Isopropylbenzene

Concen: 0.047 ppbv

RT: 14.018 min Scan# 3549

Delta R.T. 0.003 min

Lab File: VL039841.D

Acq: 7 Nov 2022 15:56

Instrument :

MSVOA_L

ClientSampleId :

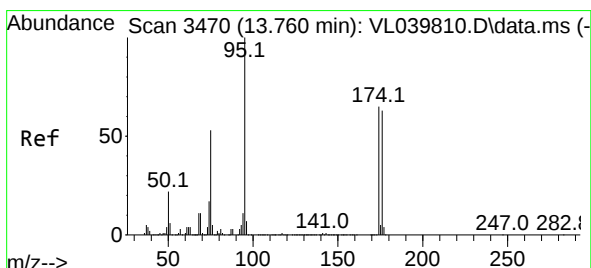
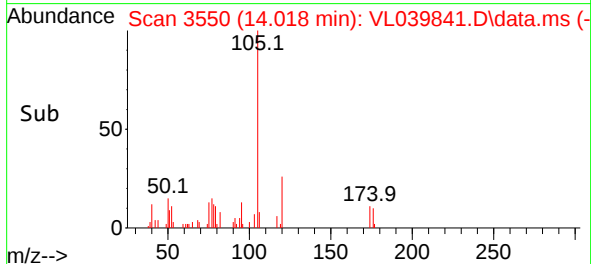
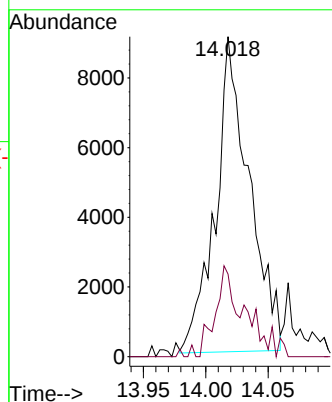
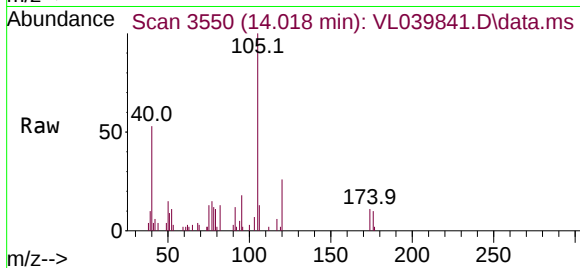
E062-1100DL

Tgt Ion:105 Resp: 17104

Ion Ratio Lower Upper

105 100

120 25.5 21.7 32.5



#68

1-Bromo-4-Fluorobenzene

Concen: 10.802 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. 0.007 min

Lab File: VL039841.D

Acq: 7 Nov 2022 15:56

Tgt Ion: 95 Resp: 1886489

Ion Ratio Lower Upper

95 100

174 62.0 53.4 80.0

175 4.6 4.1 6.1

