

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031323\
 Data File : VL040270.D
 Acq On : 13 Mar 2023 18:26
 Operator : SY/MD
 Sample : 01897-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BASEMENT-FRONTDUP

Quant Time: Mar 14 04:55:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Mar 14 04:52:39 2023
 Response via : Initial Calibration

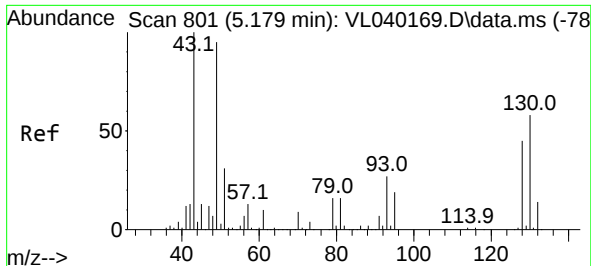
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.192	49	843211	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2051388	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	1772664	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1480232	10.155	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.723	85	56941	0.362	ppbv	97
3) Chlorodifluoromethane	2.665	51	54159	0.538	ppbv #	88
4) Chloromethane	2.803	50	27941	0.442	ppbv	94
9) Propene	2.867	41	109527	2.668	ppbv	94
11) Trichlorofluoromethane	3.559	101	31961	0.227	ppbv	94
13) Ethanol	3.231	45	280210	74.130	ppbv	89
15) Acetone	3.462	43	948254	9.341	ppbv	99
16) 1,3-Butadiene	2.957	39	2308	0.050	ppbv #	8
17) tert-Butyl alcohol	3.890	59	6023	0.065	ppbv #	72
19) Isopropyl Alcohol	3.581	45	40868	0.847	ppbv #	1
20) Methylene Chloride	3.931	84	479964	9.082	ppbv	99
21) Allyl Chloride	3.729	41	1846678	29.658	ppbv #	49
23) Vinyl Acetate	4.613	43	8537	0.277	ppbv #	81
25) Ethyl Acetate	5.214	43	212154	1.124	ppbv #	82
26) Hexane	5.211	57	267334	3.300	ppbv #	40
31) cis-1,2-Dichloroethene	5.211	61	3098	0.040	ppbv #	22
34) 2-Butanone	4.790	43	265979	2.628	ppbv	98
36) Benzene	6.375	78	23216	0.145	ppbv #	85
39) 1,2-Dichloropropane	6.661	63	535117	8.617	ppbv #	25
41) Tetrahydrofuran	5.574	42	54634	0.932	ppbv	96
53) Toluene	9.234	91	703242	4.113	ppbv	98
58) Ethyl Benzene	12.105	91	860270	3.994	ppbv	99
59) m/p-Xylene	12.359	91	2215989	11.616	ppbv	98
60) o-Xylene	13.073	91	341236	1.859	ppbv	99
74) 1,2,4-Trimethylbenzene	16.117	105	6568	0.032	ppbv #	55

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

Quant Time: Mar 14 04:55:26 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Mar 14 04:52:39 2023
Response via : Initial Calibration

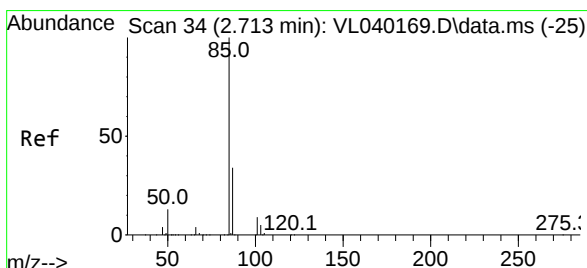
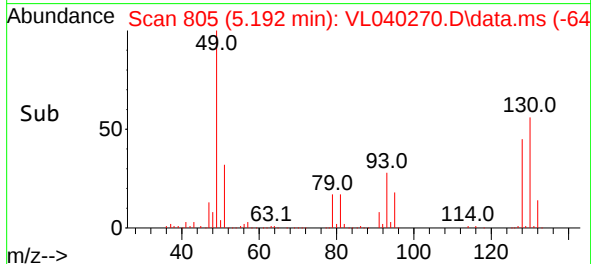
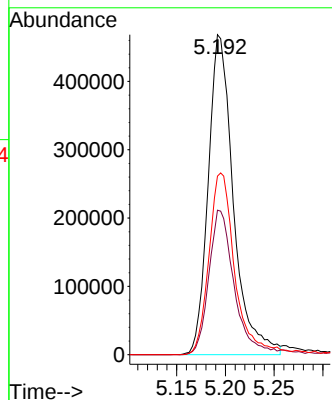
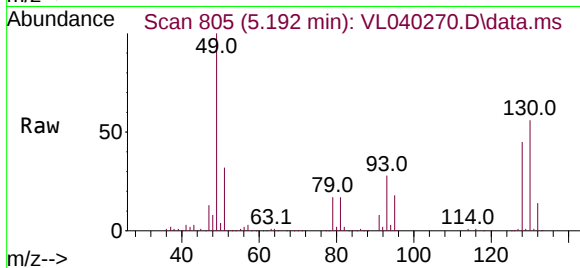




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

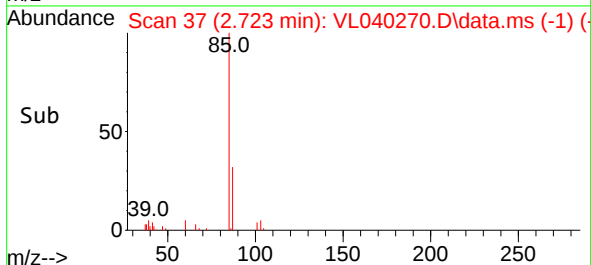
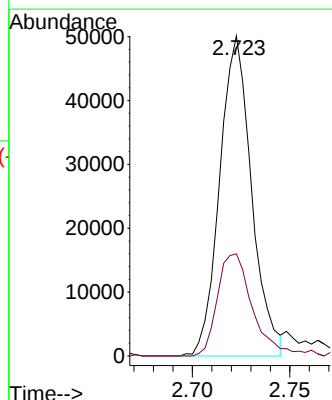
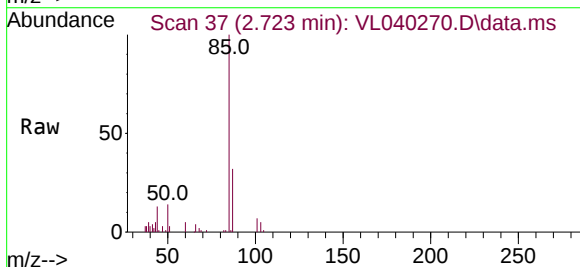
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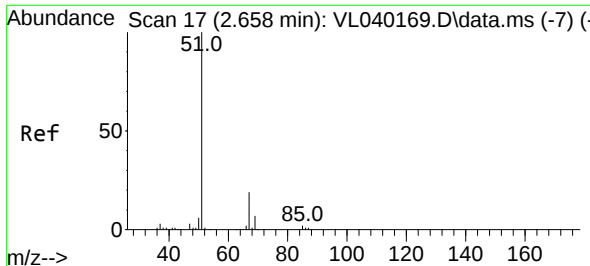
Tgt Ion: 49 Resp: 843211
Ion Ratio Lower Upper
49 100
128 47.0 24.1 72.3
130 60.6 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.362 ppbv
RT: 2.723 min Scan# 37
Delta R.T. 0.010 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

Tgt Ion: 85 Resp: 56941
Ion Ratio Lower Upper
85 100
87 31.9 27.0 40.6

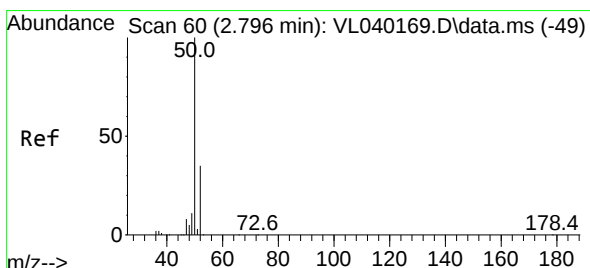
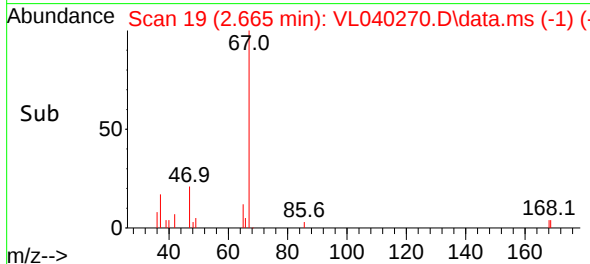
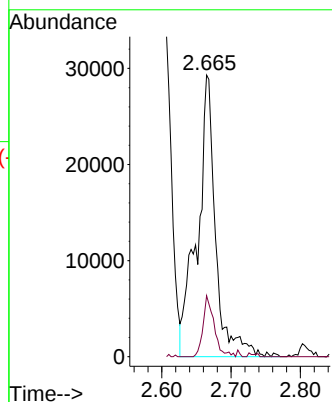
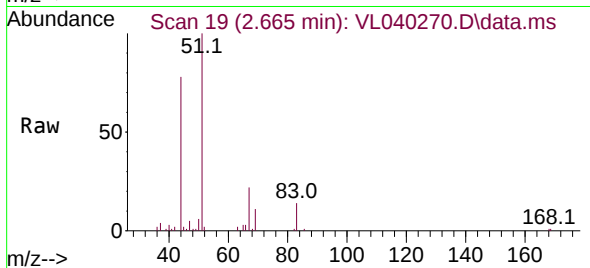




#3
Chlorodifluoromethane
Concen: 0.538 ppbv
RT: 2.665 min Scan# 19
Delta R.T. 0.007 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

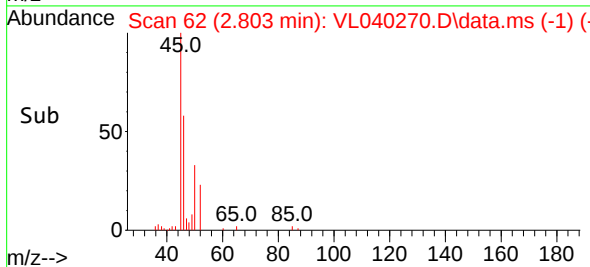
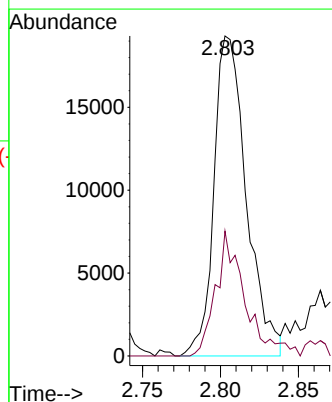
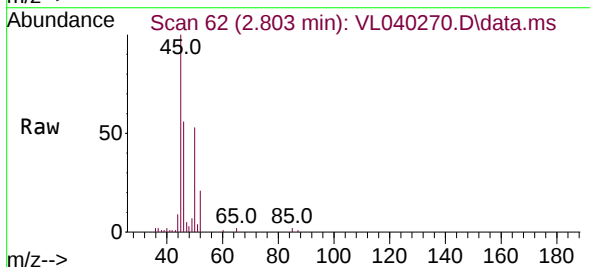
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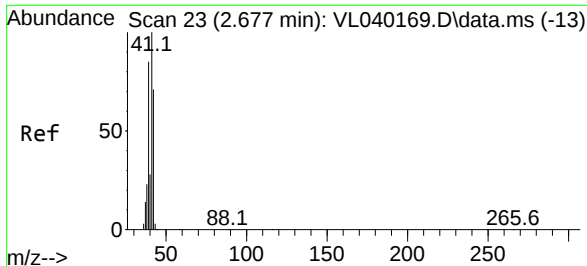
Tgt Ion: 51 Resp: 54159
Ion Ratio Lower Upper
51 100
67 13.9 15.4 23.2#



#4
Chloromethane
Concen: 0.442 ppbv
RT: 2.803 min Scan# 62
Delta R.T. 0.003 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

Tgt Ion: 50 Resp: 27941
Ion Ratio Lower Upper
50 100
52 39.0 28.3 42.5

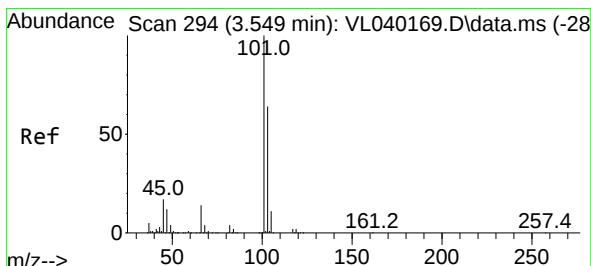
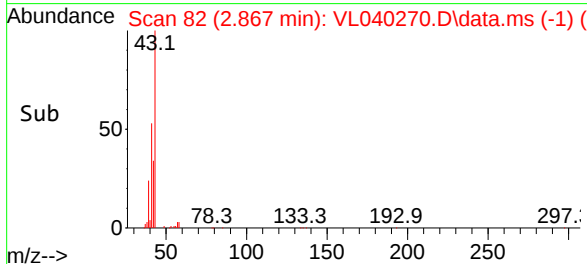
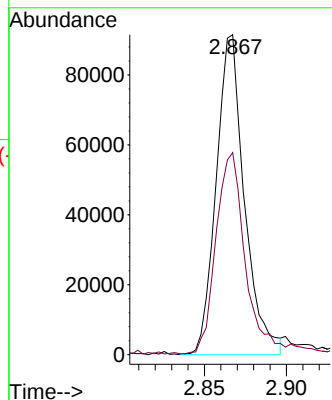
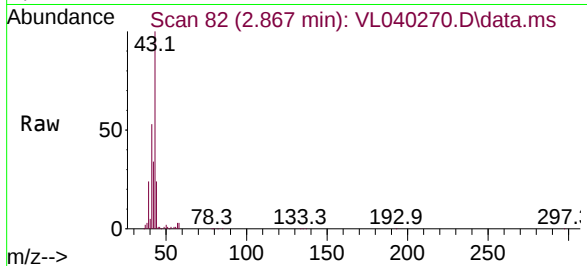




#9
Propene
Concen: 2.668 ppbv
RT: 2.867 min Scan# 81
Delta R.T. 0.190 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

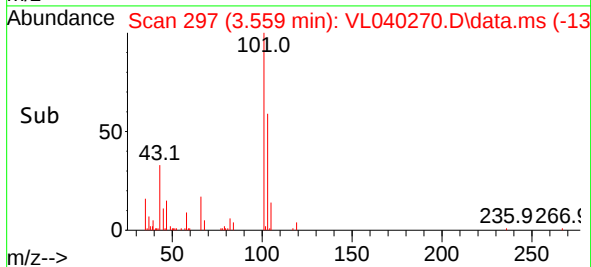
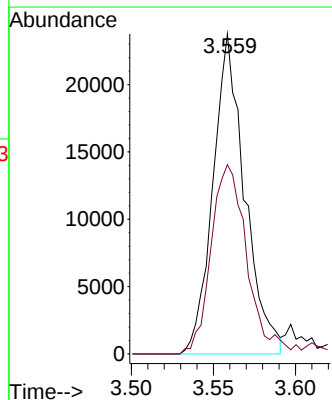
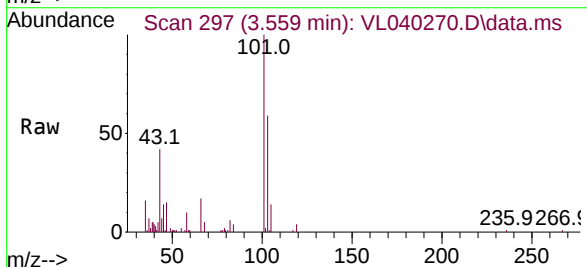
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ClientSampleId :
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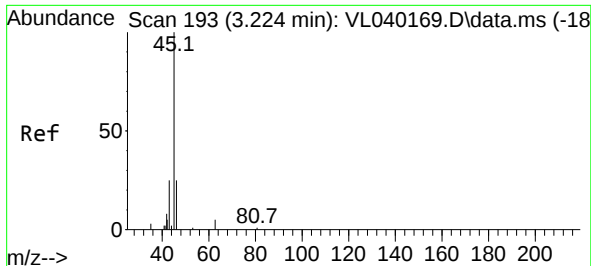
Tgt Ion: 41 Resp: 109527
Ion Ratio Lower Upper
41 100
42 66.0 56.9 85.3



#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 3.559 min Scan# 297
Delta R.T. 0.007 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

Tgt Ion: 101 Resp: 31961
Ion Ratio Lower Upper
101 100
103 59.2 51.0 76.6

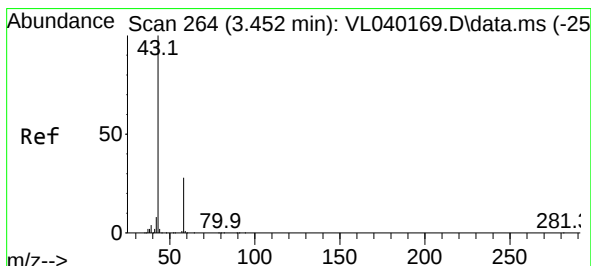
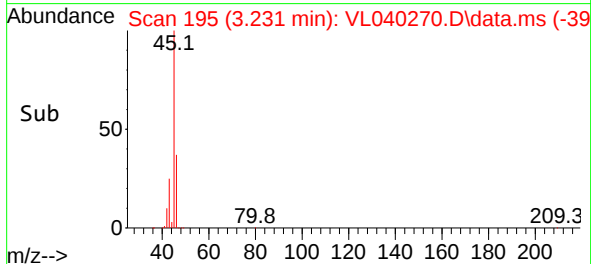
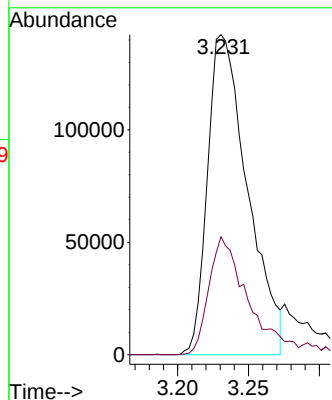
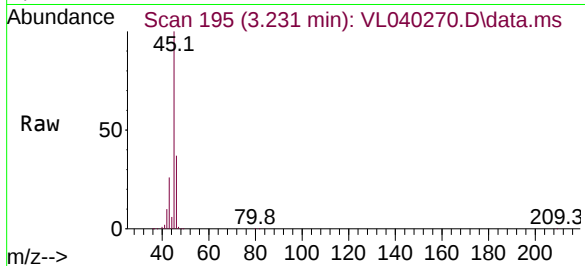




#13
Ethanol
Concen: 74.130 ppbv
RT: 3.231 min Scan# 193
Delta R.T. 0.000 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

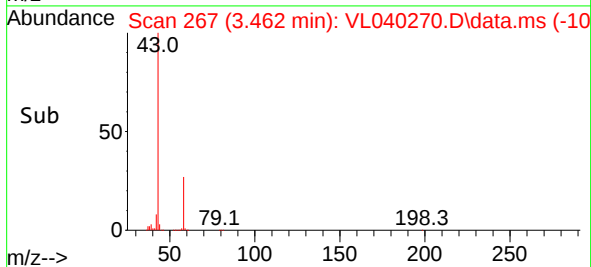
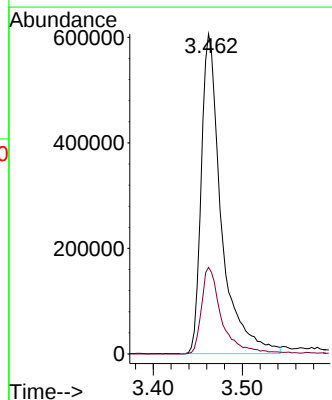
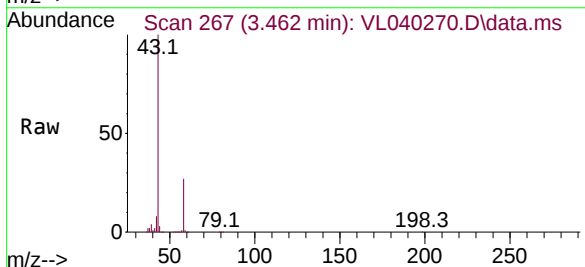
Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-FRONTDUP

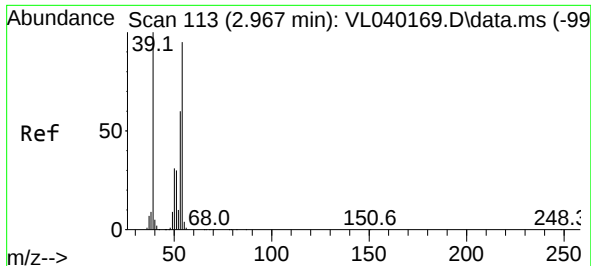
Tgt Ion: 45 Resp: 280210
Ion Ratio Lower Upper
45 100
46 39.6 13.3 53.1



#15
Acetone
Concen: 9.341 ppbv
RT: 3.462 min Scan# 267
Delta R.T. 0.007 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

Tgt Ion: 43 Resp: 948254
Ion Ratio Lower Upper
43 100
58 27.7 22.4 33.6





#16

1,3-Butadiene

Concen: 0.050 ppbv

RT: 2.957 min Scan# 11

Delta R.T. -0.013 min

Lab File: VL040270.D

Acq: 13 Mar 2023 18:26

Instrument :

MSVOA_L

ClientSampleId :

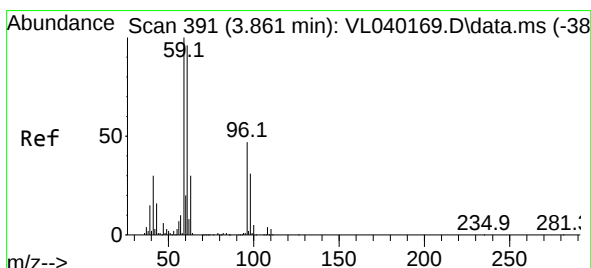
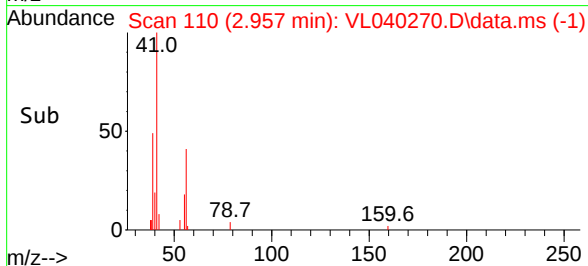
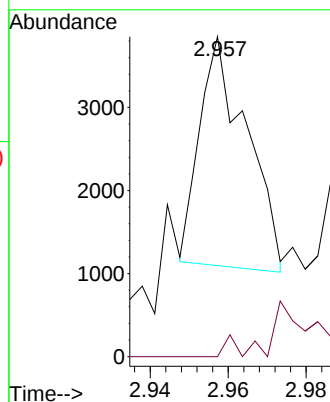
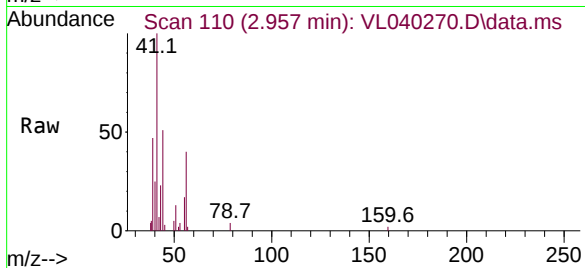
BASEMENT-FRONTDUP

Tgt Ion: 39 Resp: 2308

Ion Ratio Lower Upper

39 100

54 0.0 66.7 100.1#



#17

tert-Butyl alcohol

Concen: 0.065 ppbv

RT: 3.890 min Scan# 400

Delta R.T. 0.023 min

Lab File: VL040270.D

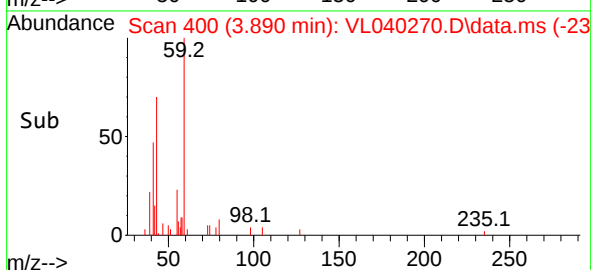
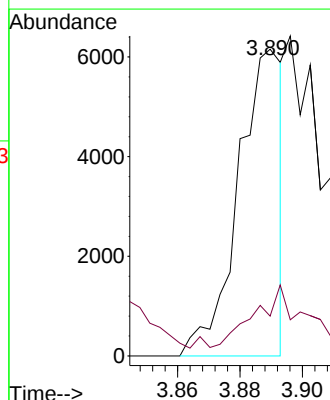
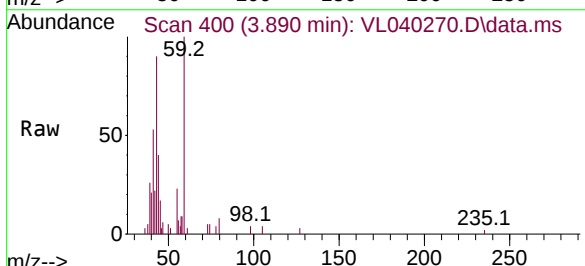
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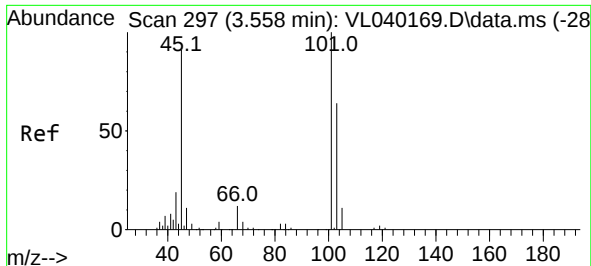
Tgt Ion: 59 Resp: 6023

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#

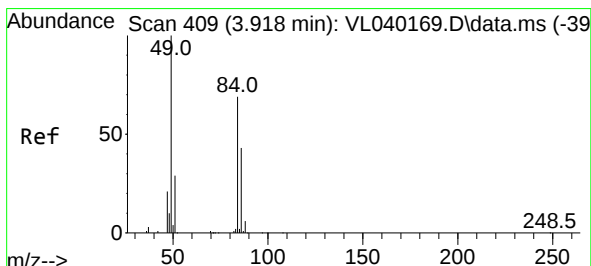
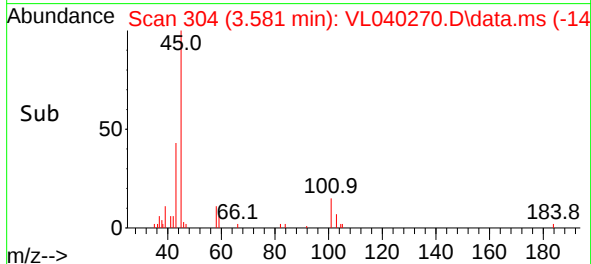
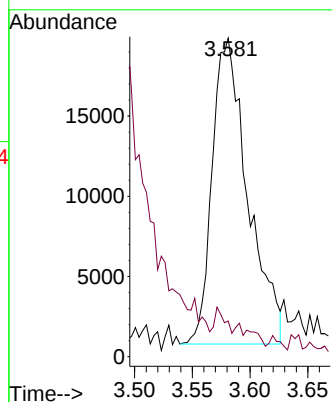
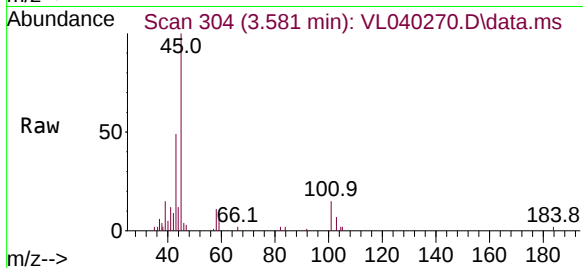




#19
Isopropyl Alcohol
Concen: 0.847 ppbv
RT: 3.581 min Scan# 304
Delta R.T. 0.019 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

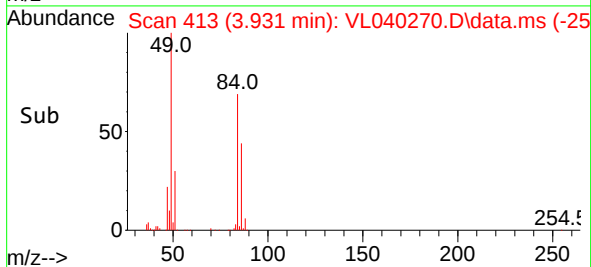
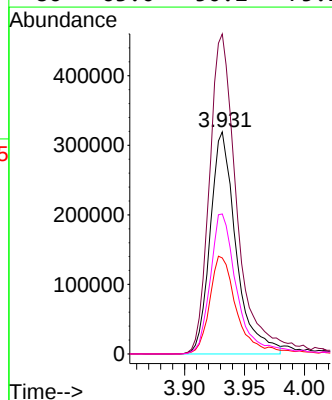
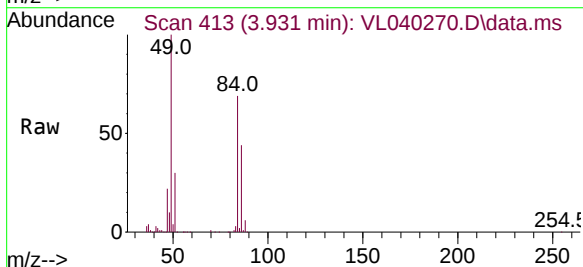
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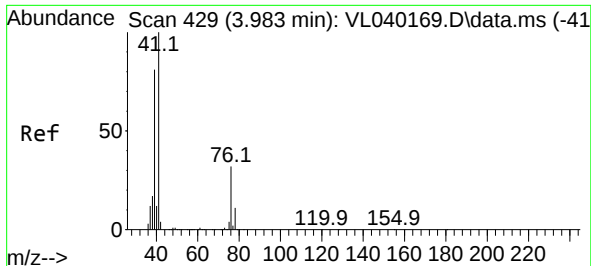
Tgt Ion: 45 Resp: 40868
Ion Ratio Lower Upper
45 100
58 641.8 2.6 3.8#



#20
Methylene Chloride
Concen: 9.082 ppbv
RT: 3.931 min Scan# 413
Delta R.T. 0.010 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

Tgt Ion: 84 Resp: 479964
Ion Ratio Lower Upper
84 100
49 144.0 115.5 173.3
51 43.2 33.1 49.7
86 63.0 50.2 75.2

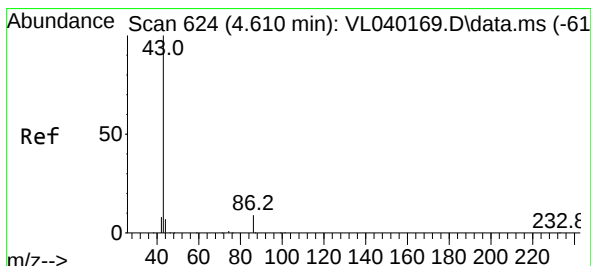
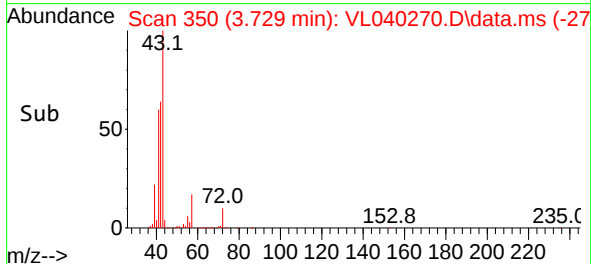
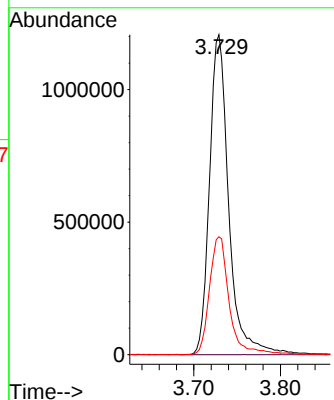
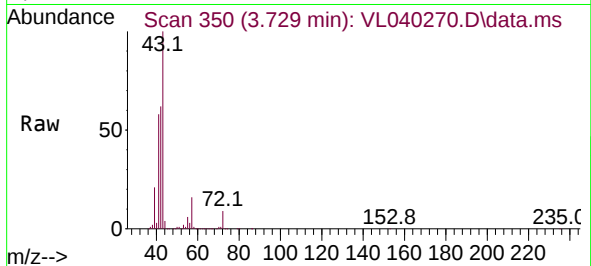




#21
 Allyl Chloride
 Concen: 29.658 ppbv
 RT: 3.729 min Scan# 31
 Delta R.T. -0.257 min
 Lab File: VL040270.D
 Acq: 13 Mar 2023 18:26

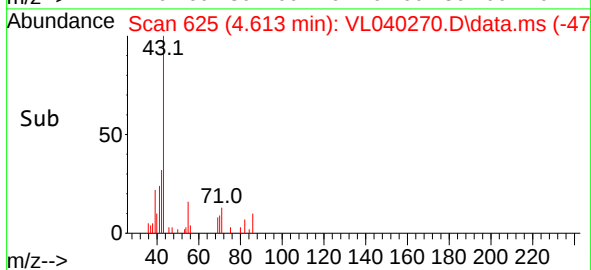
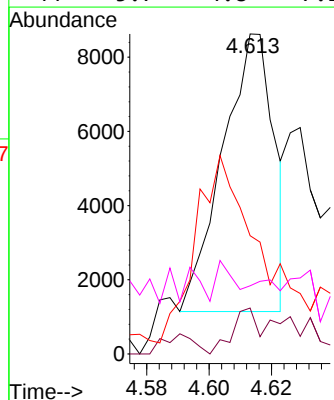
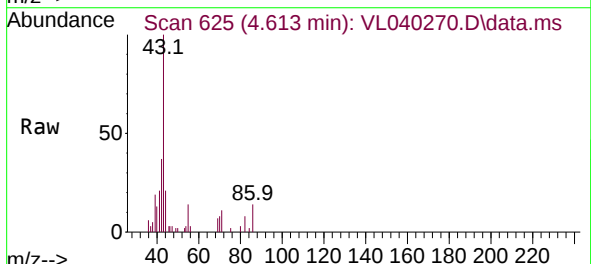
Instrument :
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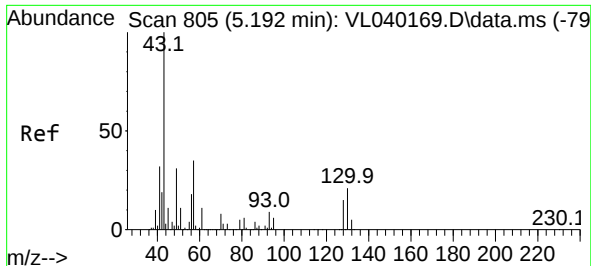
Tgt Ion: 41 Resp: 1846678
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.5 38.3#
 39 38.2 64.5 96.7#



#23
 Vinyl Acetate
 Concen: 0.277 ppbv
 RT: 4.613 min Scan# 625
 Delta R.T. -0.006 min
 Lab File: VL040270.D
 Acq: 13 Mar 2023 18:26

Tgt Ion: 43 Resp: 8537
 Ion Ratio Lower Upper
 43 100
 86 9.3 5.6 8.4#
 42 23.6 7.6 11.4#
 44 5.7 4.8 7.2

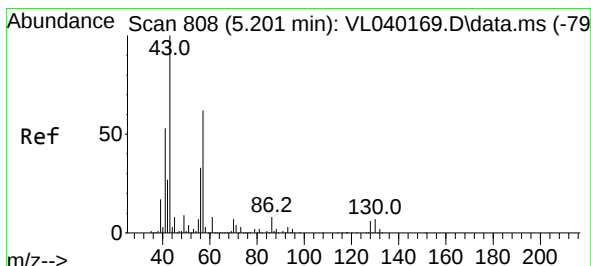
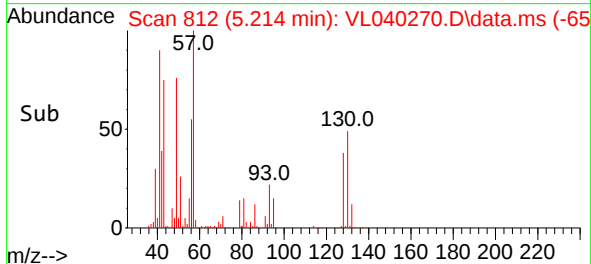
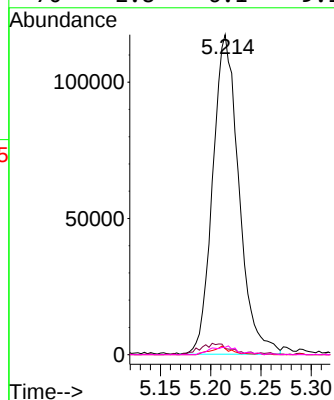
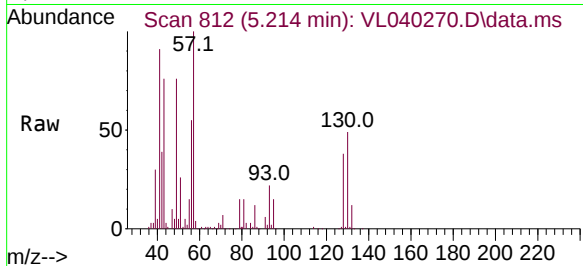




#25
Ethyl Acetate
Concen: 1.124 ppbv
RT: 5.214 min Scan# 811
Delta R.T. 0.016 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

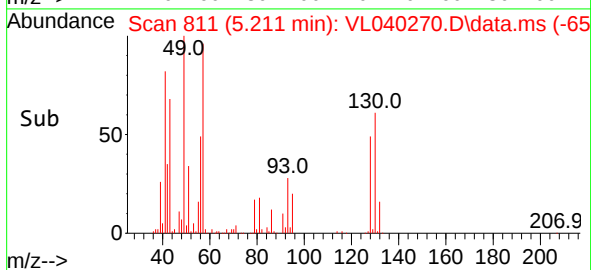
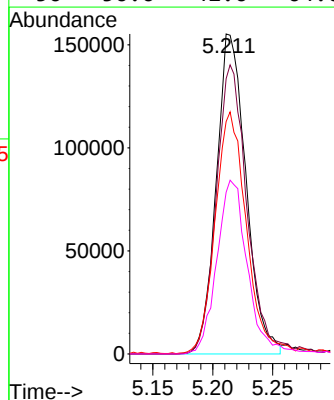
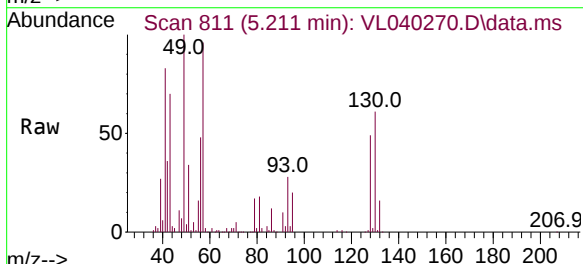
Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-FRONTDUP

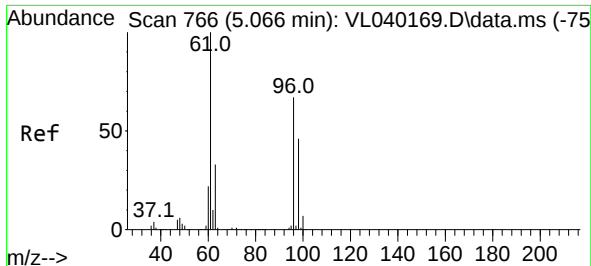
Tgt Ion: 43 Resp: 212154
Ion Ratio Lower Upper
43 100
45 4.7 8.3 12.5#
61 2.0 8.4 12.6#
70 2.8 6.1 9.1#



#26
Hexane
Concen: 3.300 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

Tgt Ion: 57 Resp: 267334
Ion Ratio Lower Upper
57 100
41 95.0 74.3 111.5
43 81.0 193.0 289.4#
56 56.6 42.6 64.0

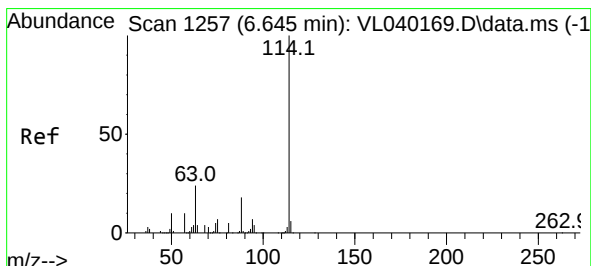
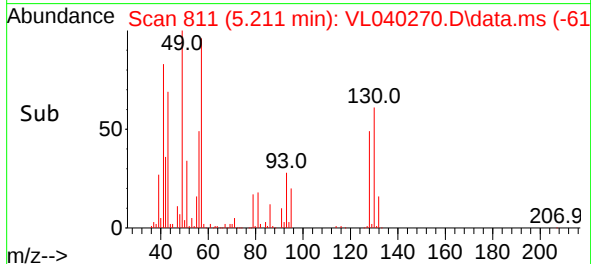
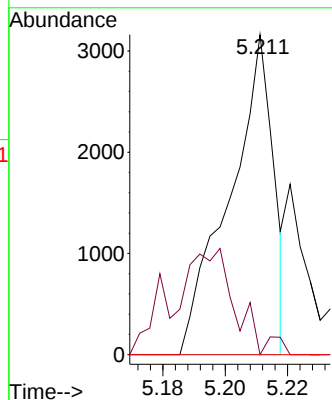
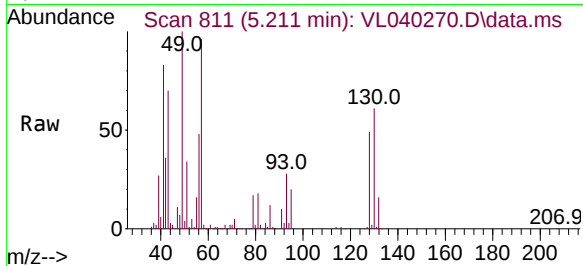




#31
 cis-1,2-Dichloroethene
 Concen: 0.040 ppbv
 RT: 5.211 min Scan# 81
 Delta R.T. 0.138 min
 Lab File: VL040270.D
 Acq: 13 Mar 2023 18:26

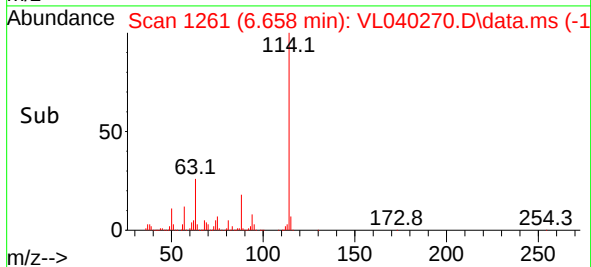
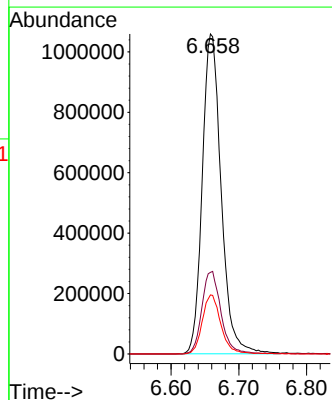
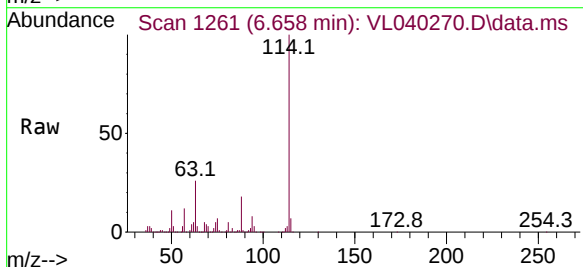
Instrument :
 MSVOA_L
 ClientSampleId :
 BASEMENT-FRONTDUP

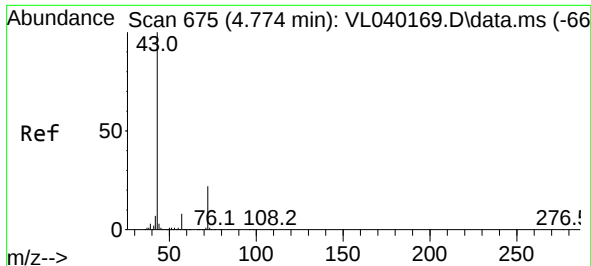
Tgt Ion: 61 Resp: 3098
 Ion Ratio Lower Upper
 61 100
 96 0.0 53.7 80.5#
 98 0.0 36.4 54.6#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.658 min Scan# 1261
 Delta R.T. 0.003 min
 Lab File: VL040270.D
 Acq: 13 Mar 2023 18:26

Tgt Ion: 114 Resp: 2051388
 Ion Ratio Lower Upper
 114 100
 63 26.4 20.4 30.6
 88 18.3 14.3 21.5

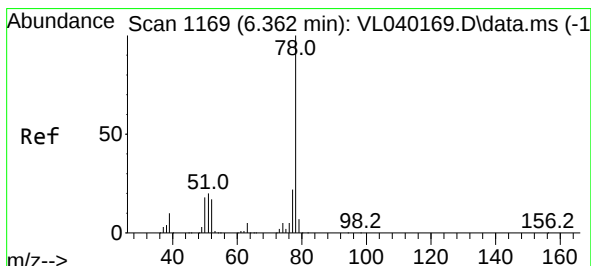
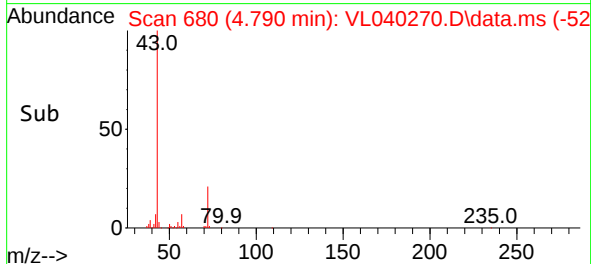
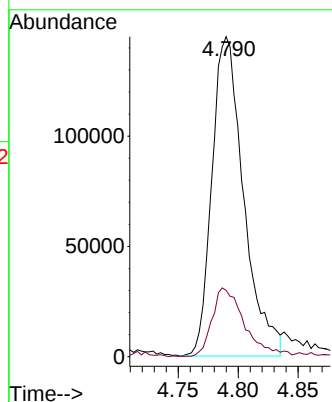
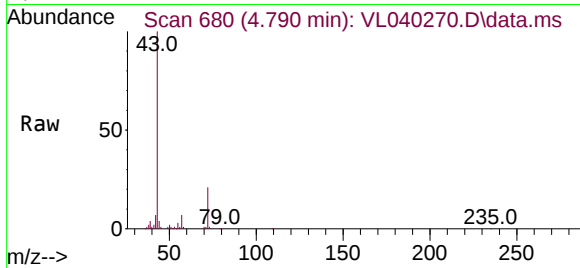




#34
2-Butanone
Concen: 2.628 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

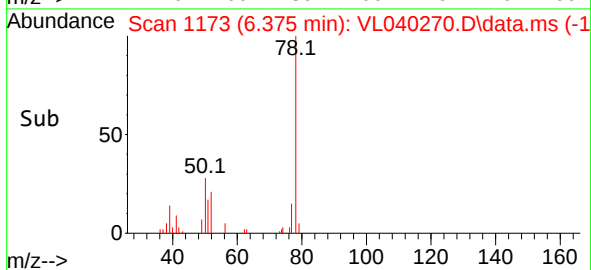
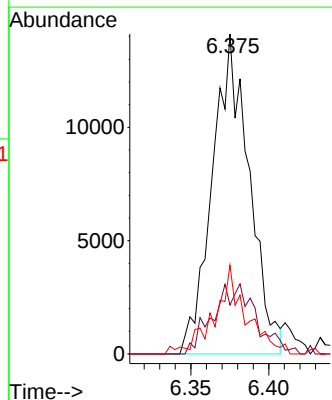
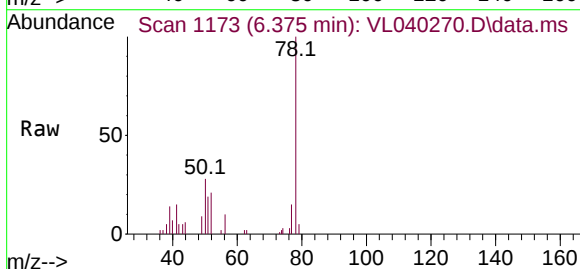
Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-FRONTDUP

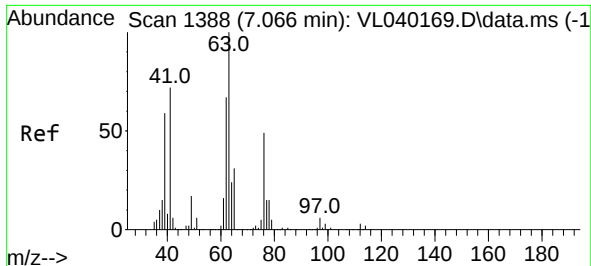
Tgt Ion: 43 Resp: 265979
Ion Ratio Lower Upper
43 100
72 23.3 17.8 26.8



#36
Benzene
Concen: 0.145 ppbv
RT: 6.375 min Scan# 1173
Delta R.T. 0.007 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

Tgt Ion: 78 Resp: 23216
Ion Ratio Lower Upper
78 100
77 15.3 17.5 26.3#
50 25.7 14.6 22.0#





#39

1,2-Dichloropropane

Concen: 8.617 ppbv

RT: 6.661 min Scan# 11

Delta R.T. -0.411 min

Lab File: VL040270.D

Acq: 13 Mar 2023 18:26

Instrument :

MSVOA_L

ClientSampleId :

BASEMENT-FRONTDUP

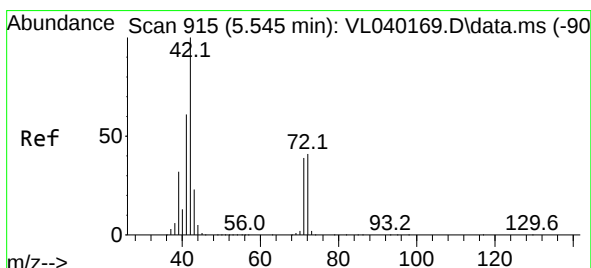
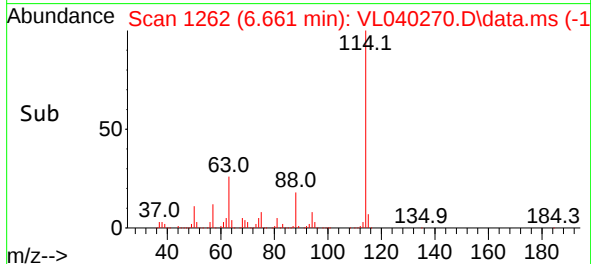
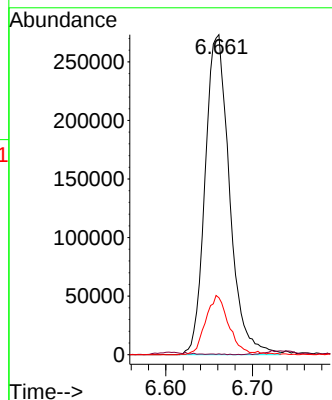
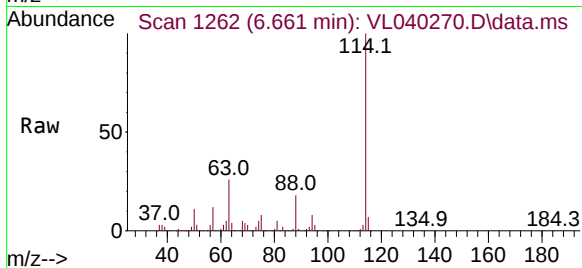
Tgt Ion: 63 Resp: 535117

Ion Ratio Lower Upper

63 100

41 0.0 57.6 86.4#

62 17.7 54.0 81.0#



#41

Tetrahydrofuran

Concen: 0.932 ppbv

RT: 5.574 min Scan# 924

Delta R.T. 0.023 min

Lab File: VL040270.D

Acq: 13 Mar 2023 18:26

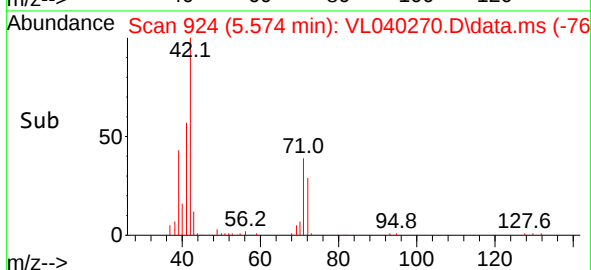
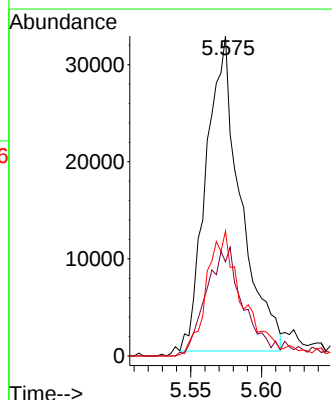
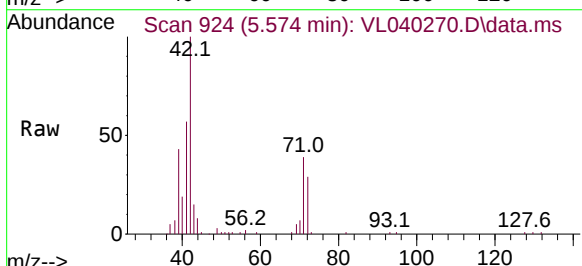
Tgt Ion: 42 Resp: 54634

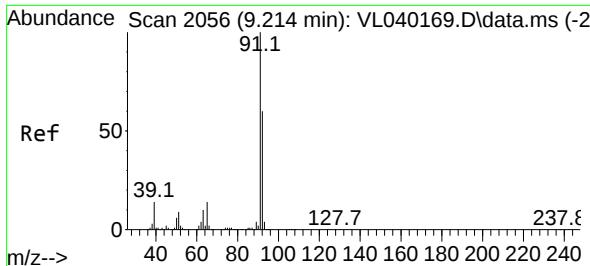
Ion Ratio Lower Upper

42 100

72 40.0 33.0 49.4

71 43.2 31.4 47.2

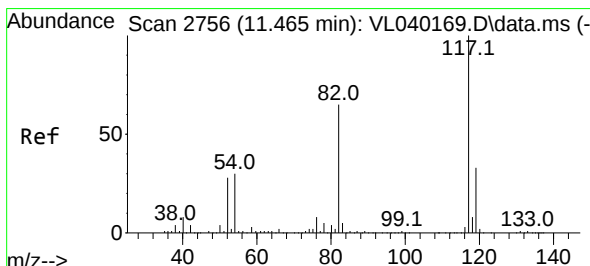
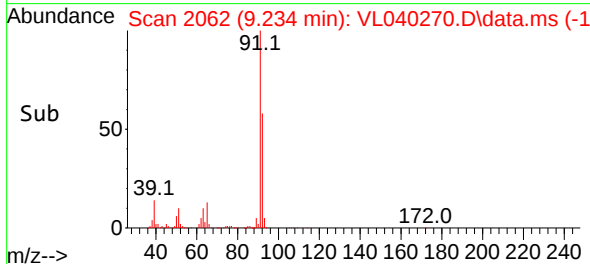
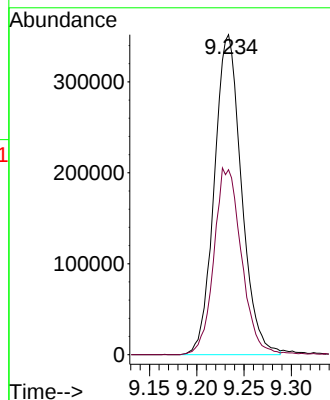
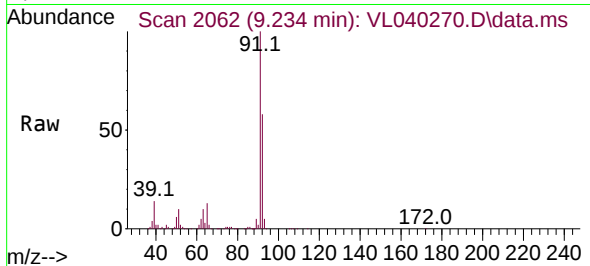




#53
Toluene
Concen: 4.113 ppbv
RT: 9.234 min Scan# 2056
Delta R.T. 0.010 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

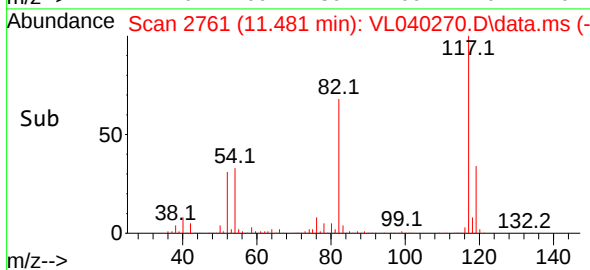
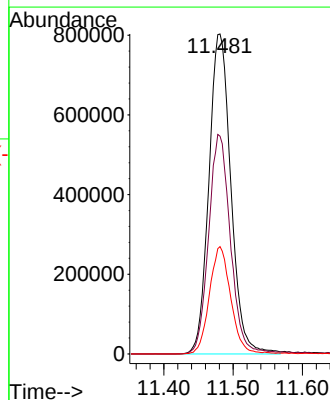
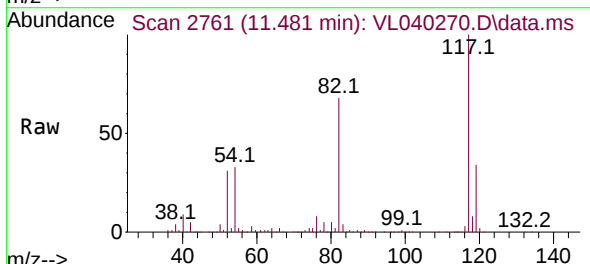
Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-FRONTDUP

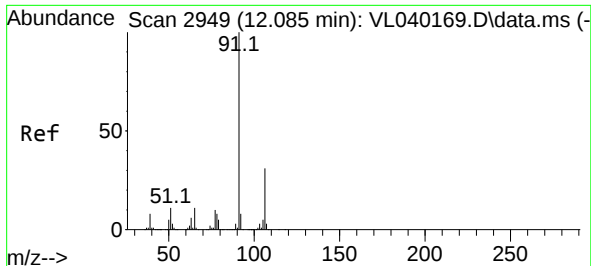
Tgt Ion: 91 Resp: 703242
Ion Ratio Lower Upper
91 100
92 59.4 48.9 73.3



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. 0.007 min
Lab File: VL040270.D
Acq: 13 Mar 2023 18:26

Tgt Ion: 117 Resp: 1772664
Ion Ratio Lower Upper
117 100
82 68.9 53.3 79.9
119 32.8 24.6 37.0





#58

Ethyl Benzene

Concen: 3.994 ppbv

RT: 12.105 min Scan# 2949

Delta R.T. 0.010 min

Lab File: VL040270.D

Acq: 13 Mar 2023 18:26

Instrument :

MSVOA_L

ClientSampleId :

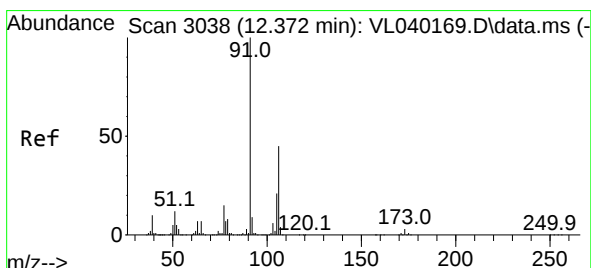
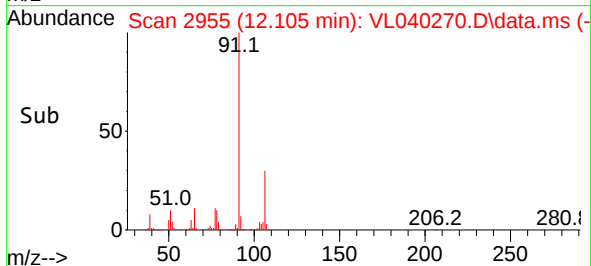
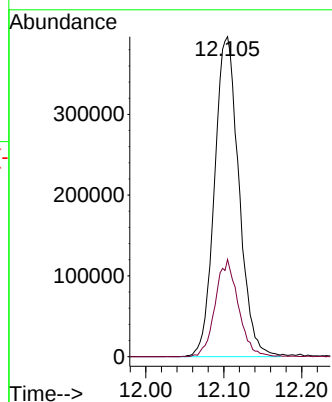
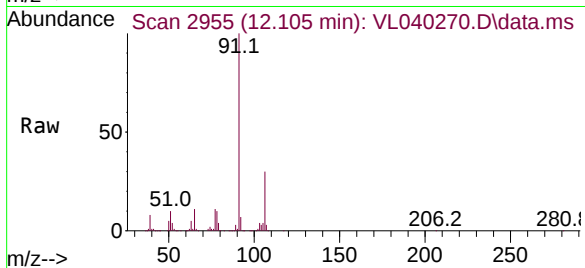
BASEMENT-FRONTDUP

Tgt Ion: 91 Resp: 860270

Ion Ratio Lower Upper

91 100

106 30.4 24.9 37.3



#59

m/p-Xylene

Concen: 11.616 ppbv

RT: 12.359 min Scan# 3034

Delta R.T. -0.022 min

Lab File: VL040270.D

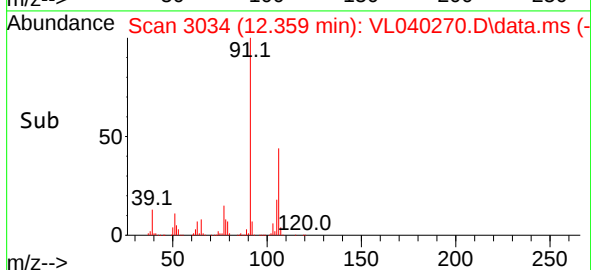
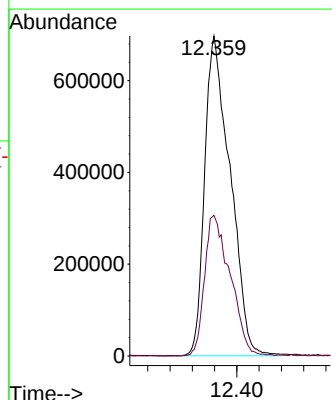
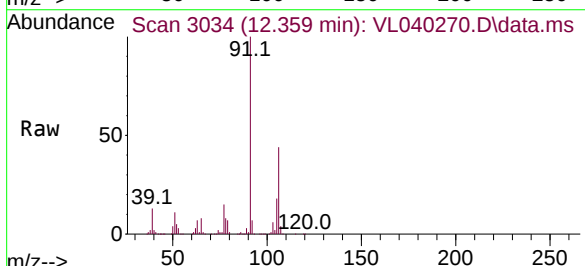
Acq: 13 Mar 2023 18:26

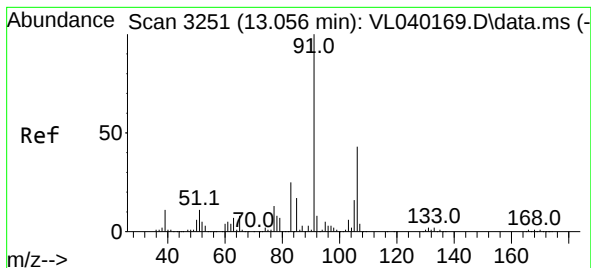
Tgt Ion: 91 Resp: 2215989

Ion Ratio Lower Upper

91 100

106 44.5 34.6 51.8





#60

o-Xylene

Concen: 1.859 ppbv

RT: 13.073 min Scan# 31

Delta R.T. 0.007 min

Lab File: VL040270.D

Acq: 13 Mar 2023 18:26

Instrument :

MSVOA_1

ClientSampleId :

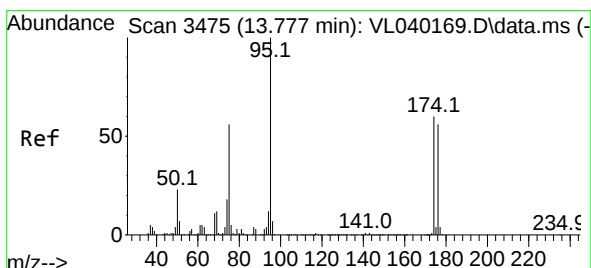
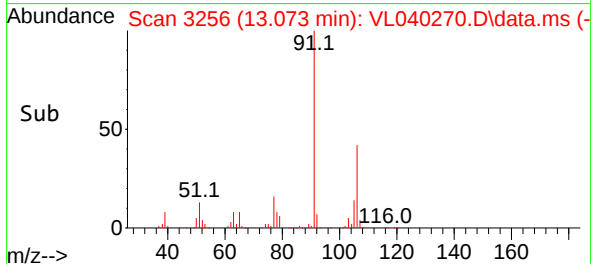
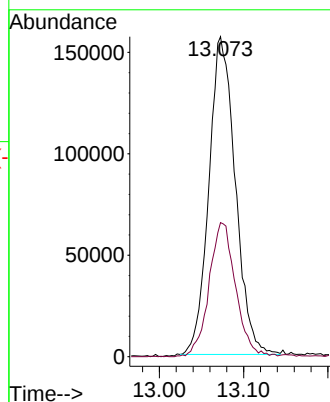
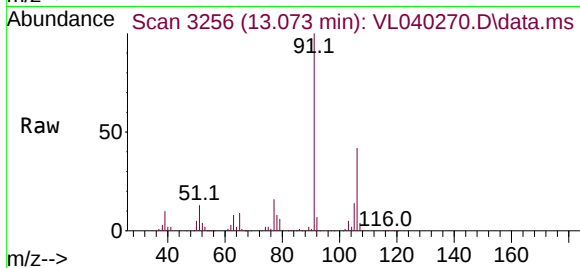
BASEMENT-FRONTDUP

Tgt Ion: 91 Resp: 341236

Ion Ratio Lower Upper

91 100

106 42.8 21.6 65.0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.155 ppbv

RT: 13.793 min Scan# 3480

Delta R.T. 0.010 min

Lab File: VL040270.D

Acq: 13 Mar 2023 18:26

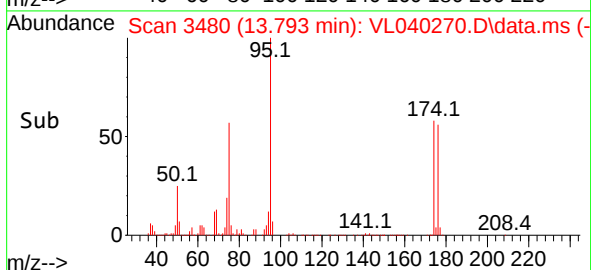
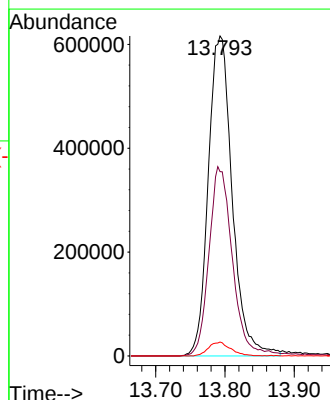
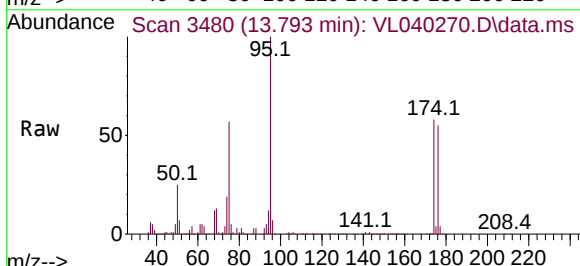
Tgt Ion: 95 Resp: 1480232

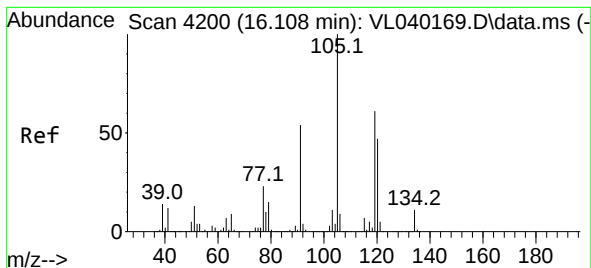
Ion Ratio Lower Upper

95 100

174 58.6 48.2 72.2

175 4.1 3.4 5.2





#74

1,2,4-Trimethylbenzene

Concen: 0.032 ppbv

RT: 16.117 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL040270.D

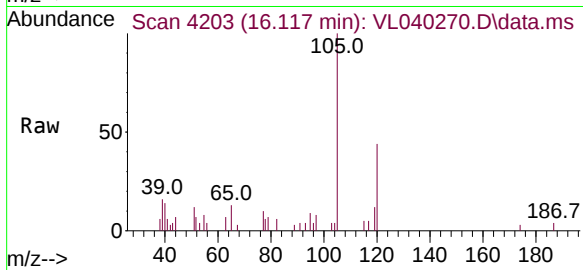
Acq: 13 Mar 2023 18:26

Instrument :

MSVOA_L

ClientSampleId :

BASEMENT-FRONTDUP



Tgt Ion:105 Resp: 6568

Ion Ratio Lower Upper

105 100

120 36.4 37.9 56.9#

91 0.0 43.7 65.5#

77 9.1 18.3 27.5#

