

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040378.D
 Acq On : 19 Apr 2023 13:52
 Operator : SY/MD
 Sample : 02368-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AP3-A

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/20/2023
 Supervised By : Mahesh Dadoda 04/22/2023

Quant Time: Apr 20 05:09:28 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

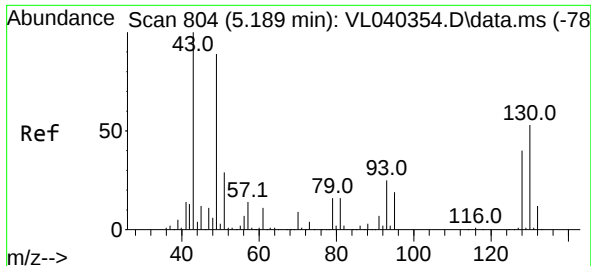
QLast Update : Thu Apr 13 14:37:02 2023

Response via : Initial Calibration

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

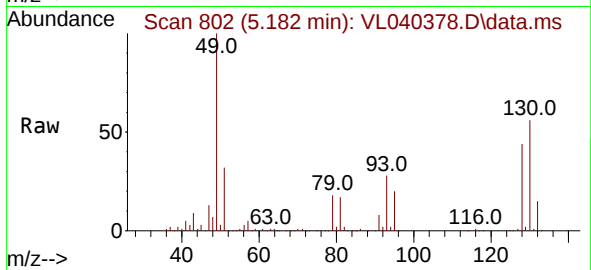
Internal Standards						
1) Bromochloromethane	5.182	49	1066087	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2574545	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2308433	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1932498	10.124	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.713	85	81180	0.422	ppbv	95
3) Chlorodifluoromethane	2.652	51	55461m	0.398	ppbv	
4) Chloromethane	2.796	50	42023	0.478	ppbv	97
9) Propene	2.687	41	96394	1.751	ppbv #	78
10) Heptane	7.571	43	27549	0.220	ppbv	88
11) Trichlorofluoromethane	3.546	101	42155	0.217	ppbv	95
13) Ethanol	3.230	45	12151633	2644.886	ppbv	95
15) Acetone	3.452	43	1345312	8.910	ppbv	99
17) tert-Butyl alcohol	3.880	59	54442	0.393	ppbv	98
19) Isopropyl Alcohol	3.574	45	1006458	14.608	ppbv #	96
20) Methylene Chloride	3.918	84	205428	3.408	ppbv	99
26) Hexane	5.201	57	291972	2.726	ppbv #	48
29) Chloroform	5.259	83	78863	0.413	ppbv	92
34) 2-Butanone	4.780	43	129911	0.936	ppbv	98
35) Carbon Tetrachloride	6.478	117	12536m	0.069	ppbv	
36) Benzene	6.362	78	118087	0.562	ppbv	99
44) 2,2,4-Trimethylpentane	7.324	57	83442m	0.238	ppbv	
52) Tetrachloroethene	10.606	164	3980m	0.061	ppbv	
53) Toluene	9.217	91	279139	1.253	ppbv	99
58) Ethyl Benzene	12.082	91	49007m	0.173	ppbv	
59) m/p-Xylene	12.346	91	149620m	0.573	ppbv	
60) o-Xylene	13.060	91	74444	0.297	ppbv	99
74) 1,2,4-Trimethylbenzene	16.117	105	62951m	0.215	ppbv	
76) 1,4-Dichlorobenzene	16.471	146	15493m	0.098	ppbv	

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040378.D
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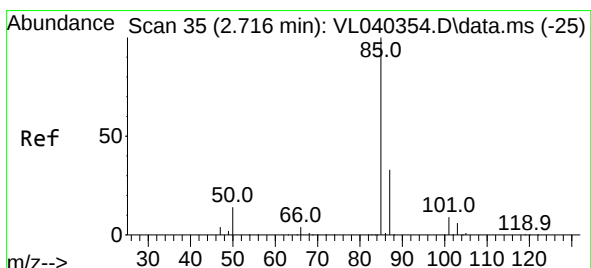
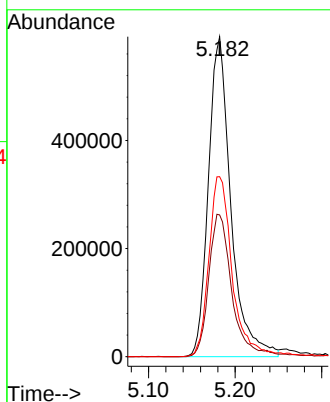
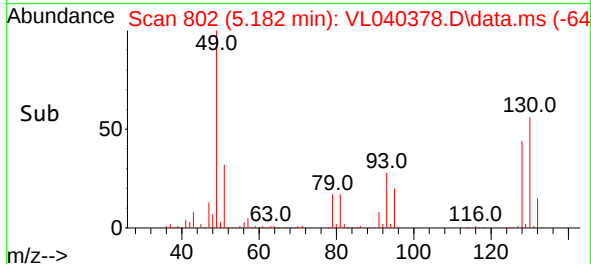
Instrument :
MSVOA_L
ClientSampleId :
AP3-A



Tgt Ion: 49 Resp: 106608
Ion Ratio Lower Upper
49 100
128 46.5 23.7 71.1
130 60.0 29.9 89.8

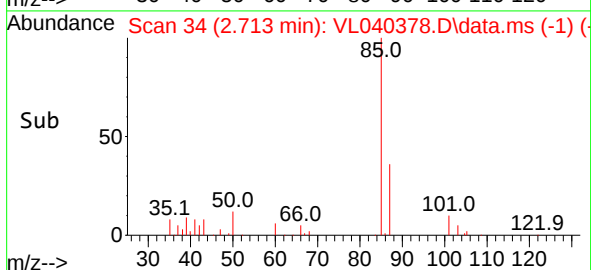
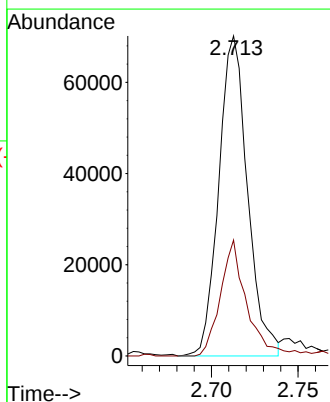
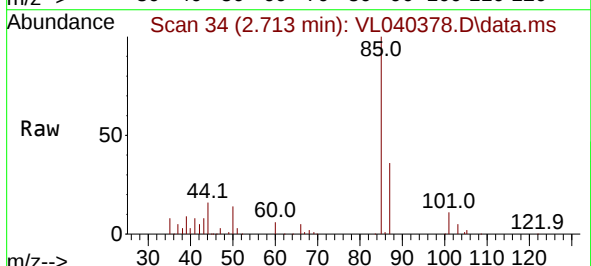
Manual Integrations
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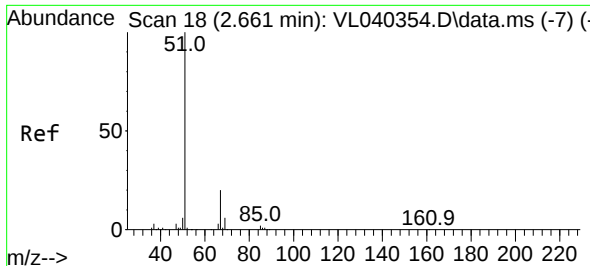
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#2
Dichlorodifluoromethane
Concen: 0.422 ppbv
RT: 2.713 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

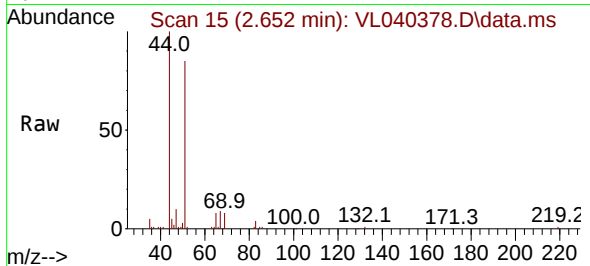
Tgt Ion: 85 Resp: 81180
Ion Ratio Lower Upper
85 100
87 36.2 26.6 40.0





#3
Chlorodifluoromethane
Concen: 0.398 ppbv m
RT: 2.652 min Scan# 11
Delta R.T. -0.009 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

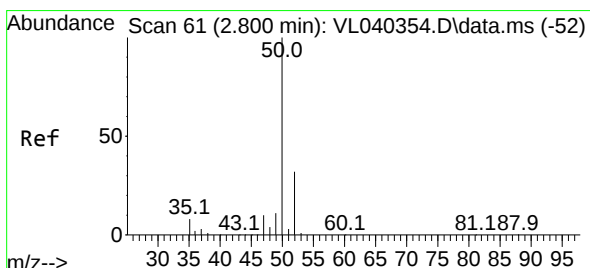
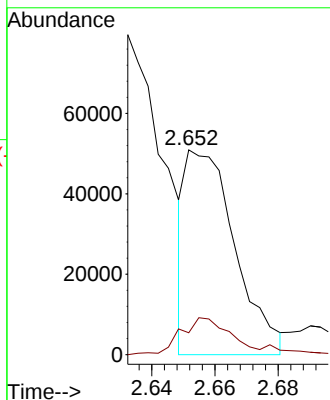
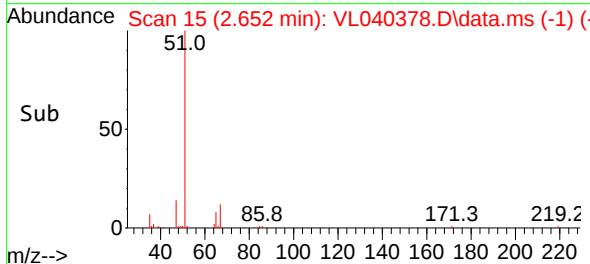
Instrument :
MSVOA_L
ClientSampleId :
AP3-A



Tgt Ion: 51 Resp: 5546
Ion Ratio Lower Upper
51 100
67 22.3 15.5 23.3

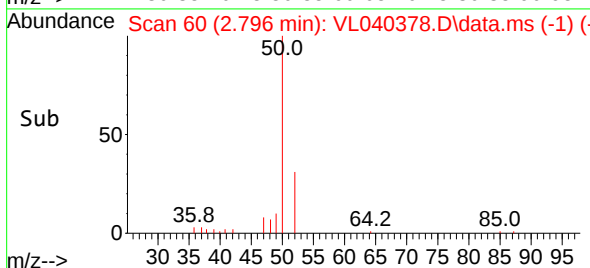
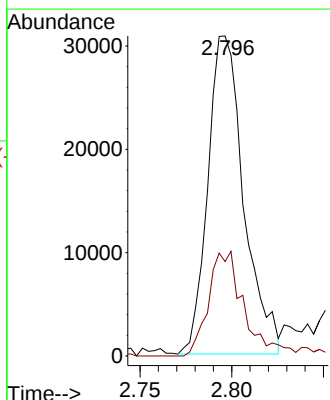
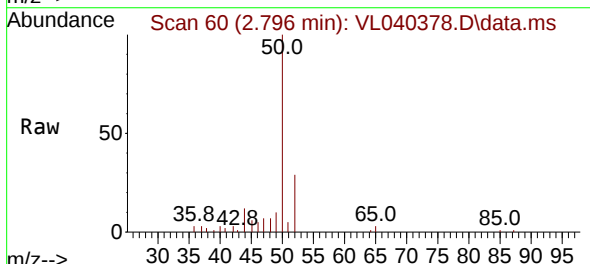
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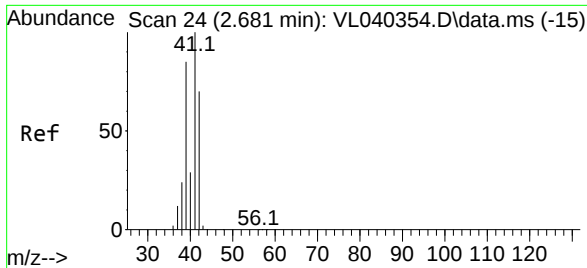
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#4
Chloromethane
Concen: 0.478 ppbv
RT: 2.796 min Scan# 60
Delta R.T. -0.004 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

Tgt Ion: 50 Resp: 42023
Ion Ratio Lower Upper
50 100
52 29.7 25.3 37.9





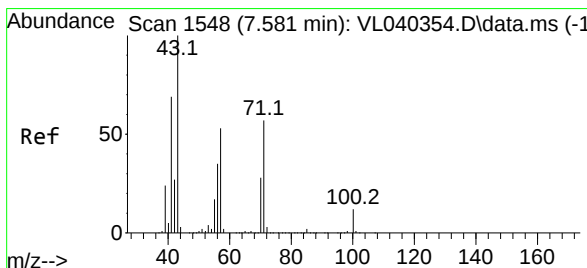
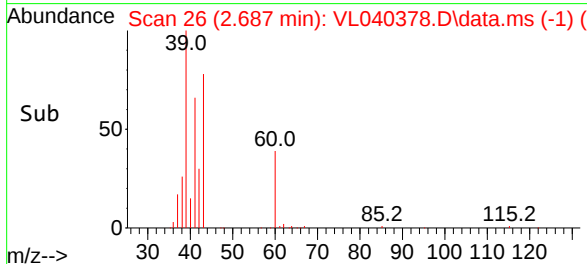
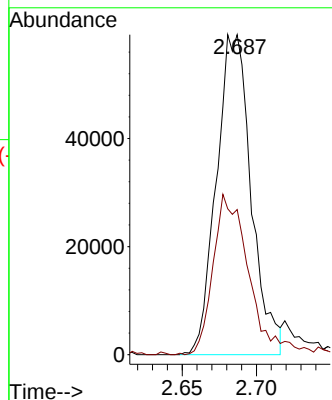
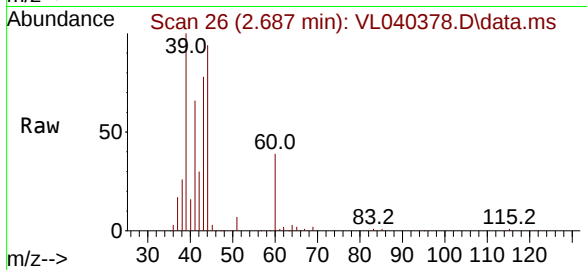
#9
Propene
Concen: 1.751 ppbv
RT: 2.687 min Scan# 20
Delta R.T. 0.006 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

Instrument :
MSVOA_L
ClientSampleId :
AP3-A

Tgt Ion: 41 Resp: 96394
Ion Ratio Lower Upper
41 100
42 52.3 56.5 84.7

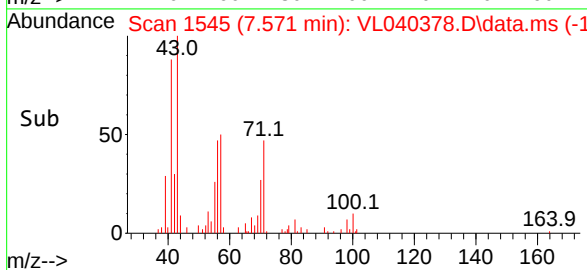
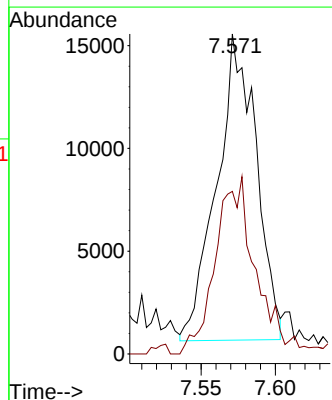
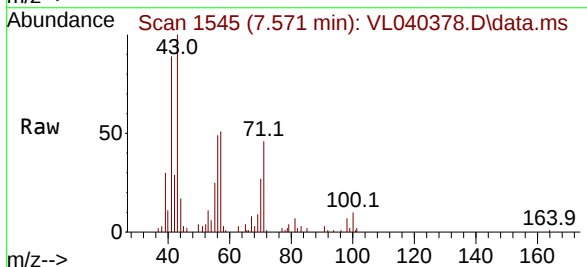
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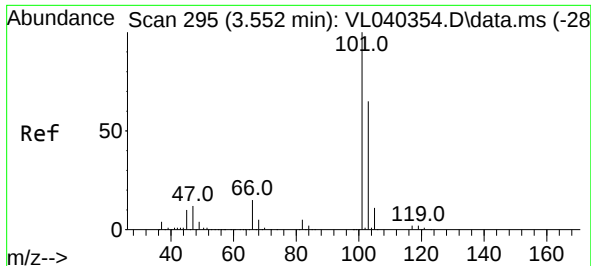
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#10
Heptane
Concen: 0.220 ppbv
RT: 7.571 min Scan# 1545
Delta R.T. -0.010 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

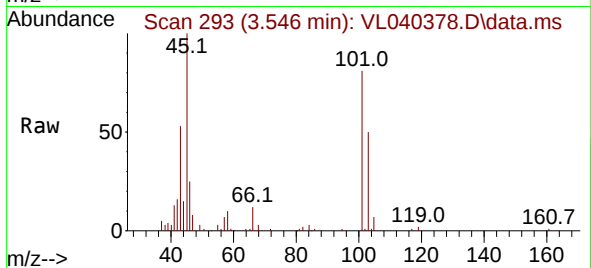
Tgt Ion: 43 Resp: 27549
Ion Ratio Lower Upper
43 100
57 61.2 42.2 63.4





#11
Trichlorofluoromethane
Concen: 0.217 ppbv
RT: 3.546 min Scan# 295
Delta R.T. -0.006 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

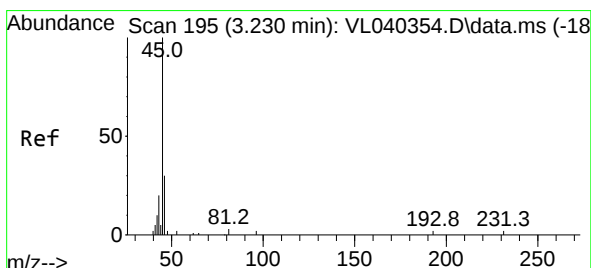
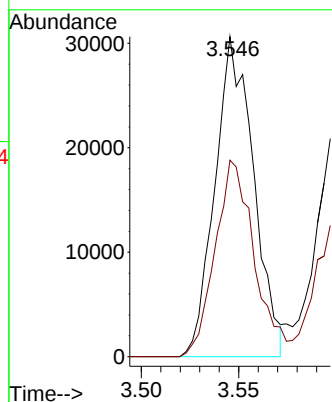
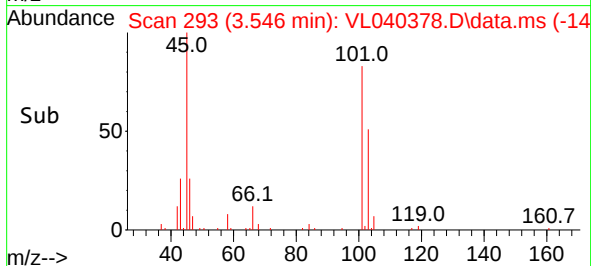
Instrument :
MSVOA_L
ClientSampleId :
AP3-A



Tgt Ion:101 Resp: 4215
Ion Ratio Lower Upper
101 100
103 61.4 52.2 78.4

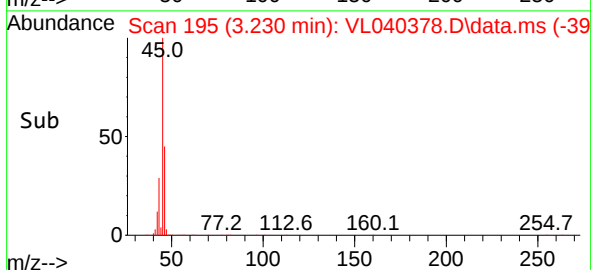
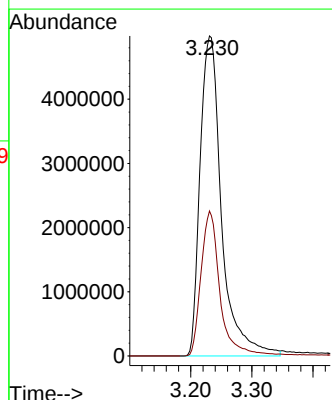
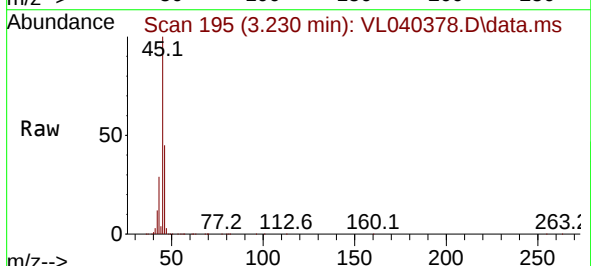
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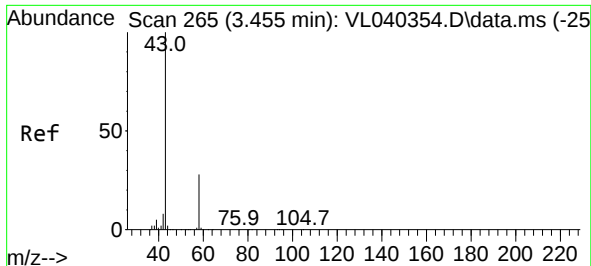
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#13
Ethanol
Concen: 2644.886 ppbv
RT: 3.230 min Scan# 195
Delta R.T. 0.000 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

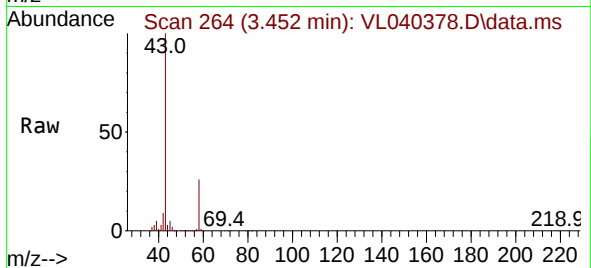
Tgt Ion: 45 Resp:12151633
Ion Ratio Lower Upper
45 100
46 41.1 15.3 61.3





#15
Acetone
Concen: 8.910 ppbv
RT: 3.452 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

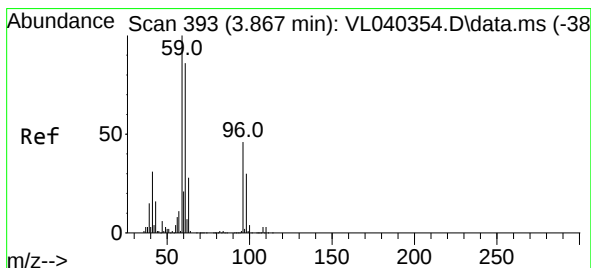
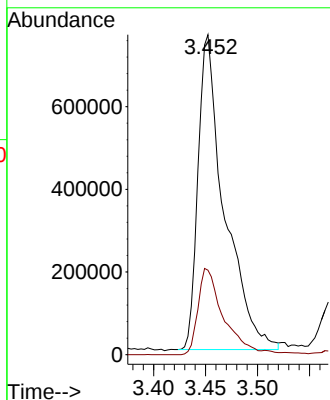
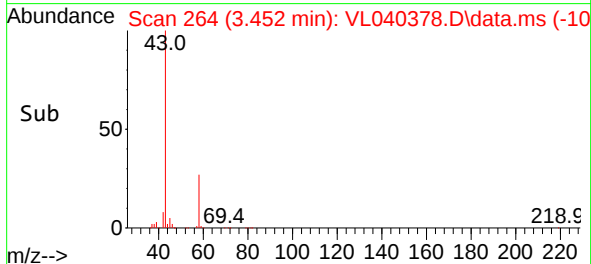
Instrument :
MSVOA_L
ClientSampleId :
AP3-A



Tgt Ion: 43 Resp: 134531
Ion Ratio Lower Upper
43 100
58 27.1 22.2 33.2

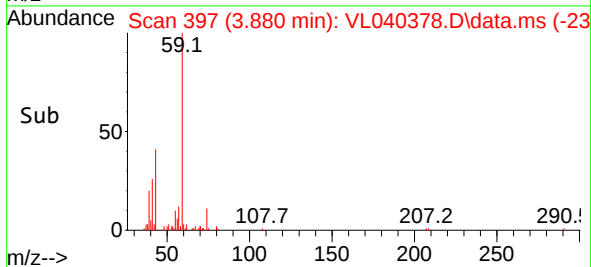
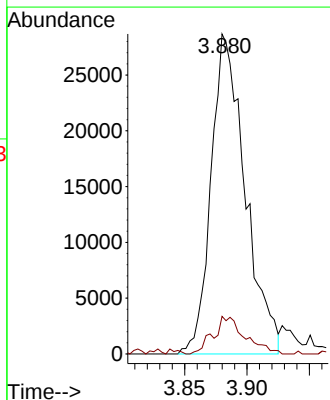
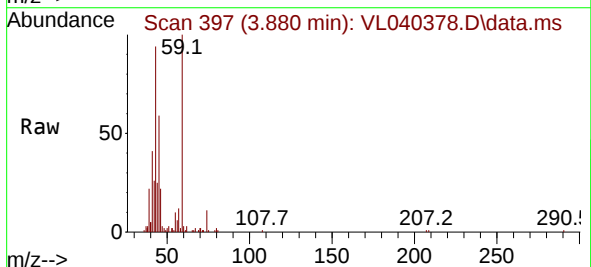
Manual Integrations
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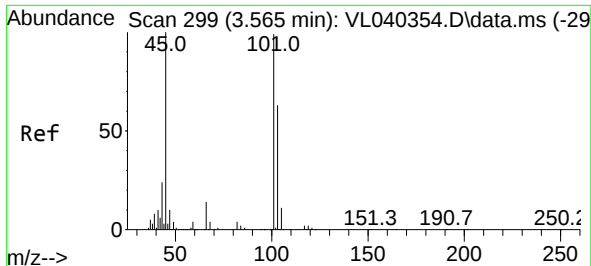
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#17
tert-Butyl alcohol
Concen: 0.393 ppbv
RT: 3.880 min Scan# 397
Delta R.T. 0.013 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

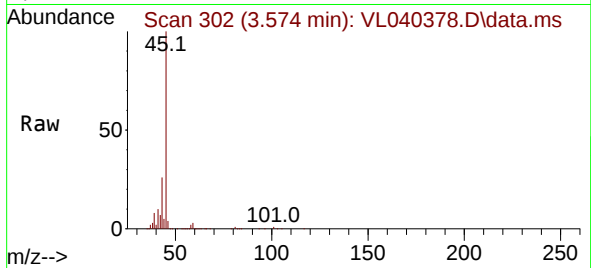
Tgt Ion: 59 Resp: 54442
Ion Ratio Lower Upper
59 100
57 11.3 8.5 12.7





#19
Isopropyl Alcohol
Concen: 14.608 ppbv
RT: 3.574 min Scan# 302
Delta R.T. 0.009 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

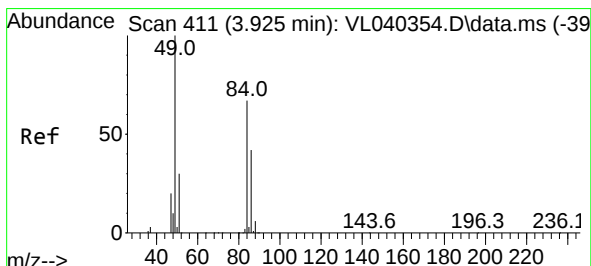
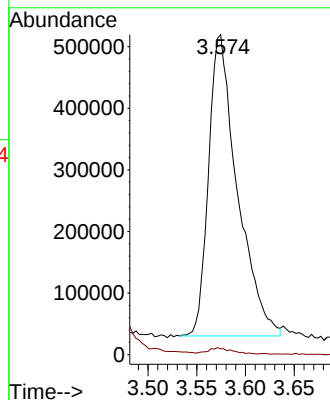
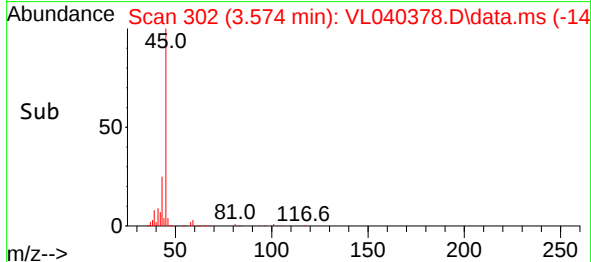
Instrument :
MSVOA_L
ClientSampleId :
AP3-A



Tgt Ion: 45 Resp: 1006458
Ion Ratio Lower Upper
45 100
58 2.1 2.6 4.0

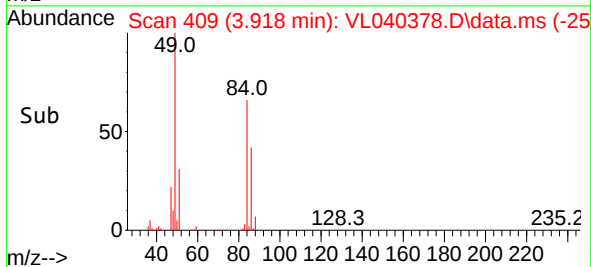
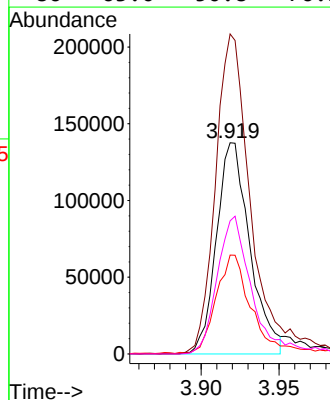
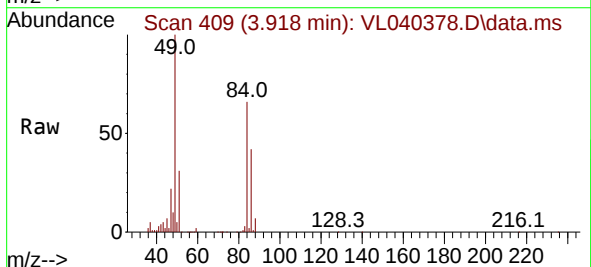
Manual Integrations
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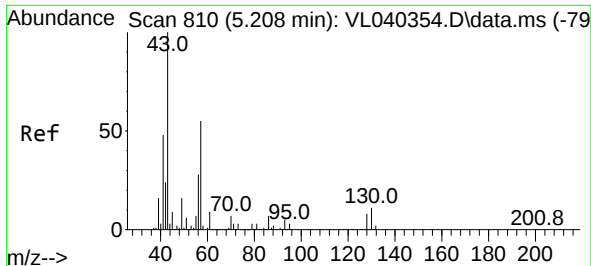
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#20
Methylene Chloride
Concen: 3.408 ppbv
RT: 3.918 min Scan# 409
Delta R.T. -0.006 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

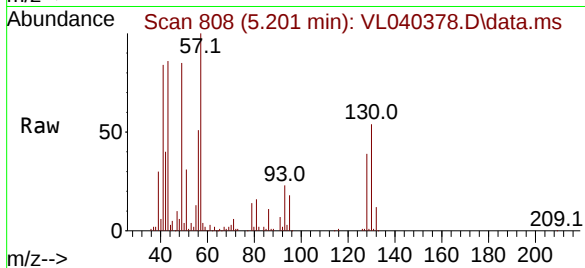
Tgt Ion: 84 Resp: 205428
Ion Ratio Lower Upper
84 100
49 151.2 120.1 180.1
51 46.0 36.3 54.5
86 63.0 50.8 76.2





#26
Hexane
Concen: 2.726 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.007 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

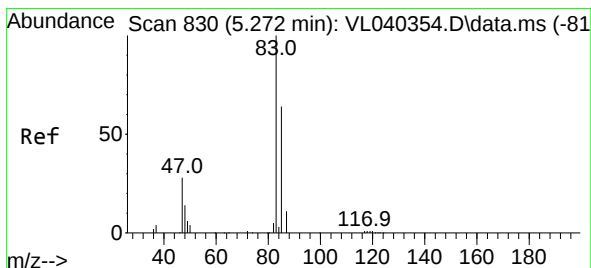
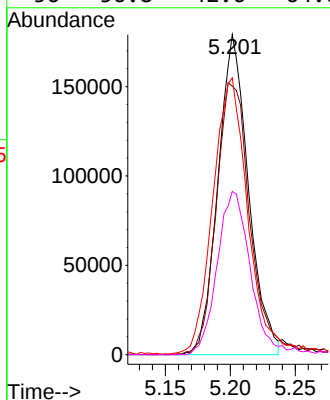
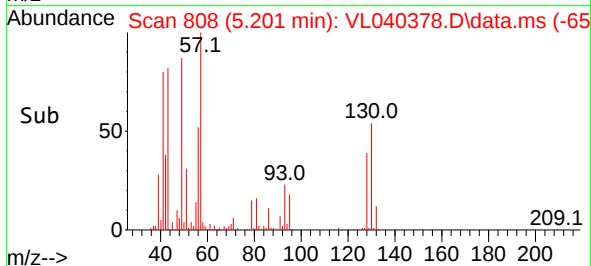
Instrument :
MSVOA_L
ClientSampleId :
AP3-A



Tgt Ion: 57 Resp: 291972
Ion Ratio Lower Upper
57 100
41 96.6 74.8 112.2
43 102.9 192.7 289.1
56 56.8 42.6 64.0

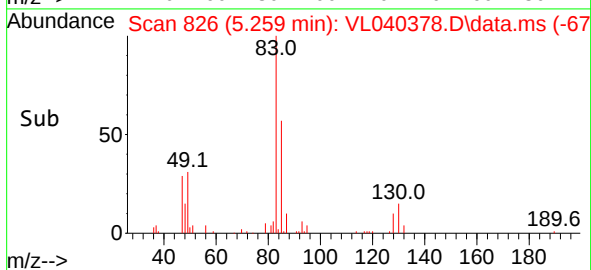
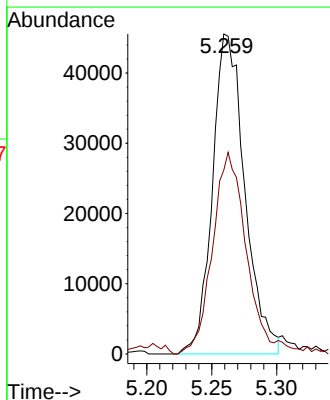
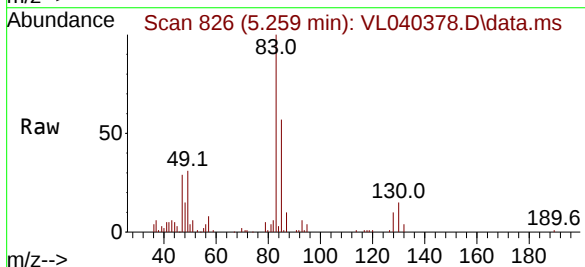
Manual Integrations
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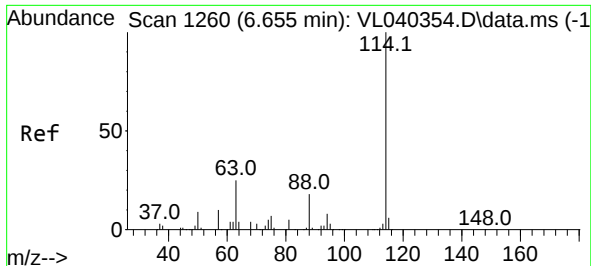
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#29
Chloroform
Concen: 0.413 ppbv
RT: 5.259 min Scan# 826
Delta R.T. -0.013 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

Tgt Ion: 83 Resp: 78863
Ion Ratio Lower Upper
83 100
85 57.5 51.0 76.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 114

Delta R.T. -0.010 min

Lab File: VL040378.D

Acq: 19 Apr 2023 13:52

Instrument :

MSVOA_L

ClientSampleId :

AP3-A

Tgt Ion:114 Resp: 257454

Ion Ratio Lower Upper

114 100

63 25.9 21.4 32.0

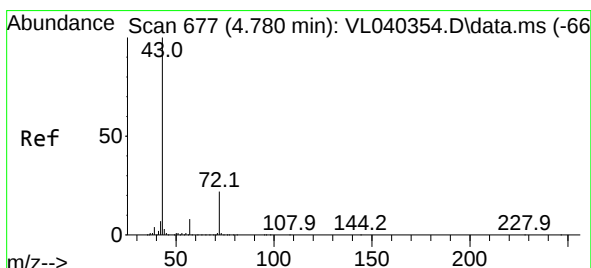
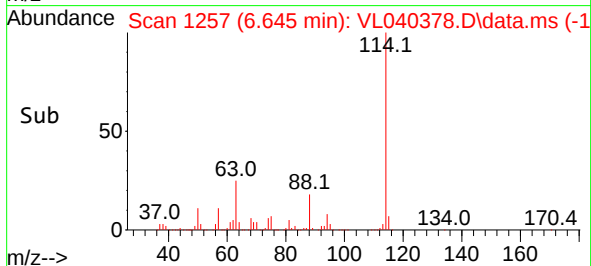
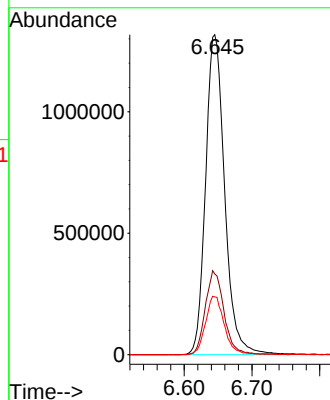
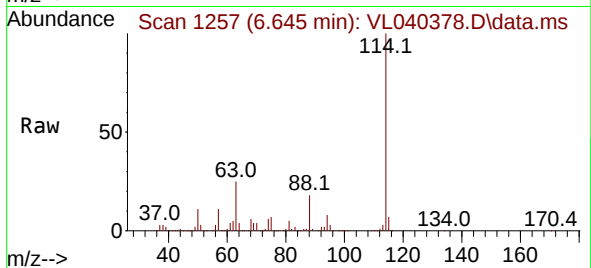
88 18.1 14.6 22.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/20/2023

Supervised By :Mahesh Dadoda 04/22/2023



#34

2-Butanone

Concen: 0.936 ppbv

RT: 4.780 min Scan# 677

Delta R.T. 0.000 min

Lab File: VL040378.D

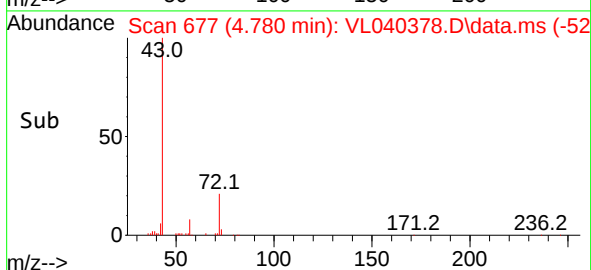
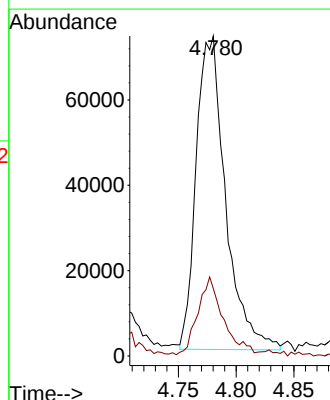
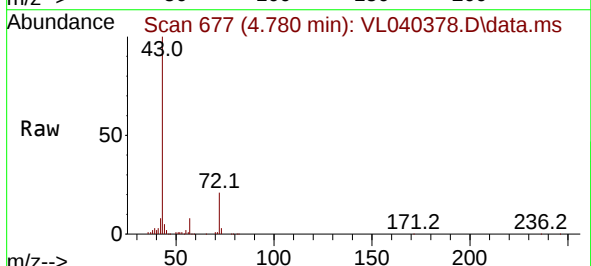
Acq: 19 Apr 2023 13:52

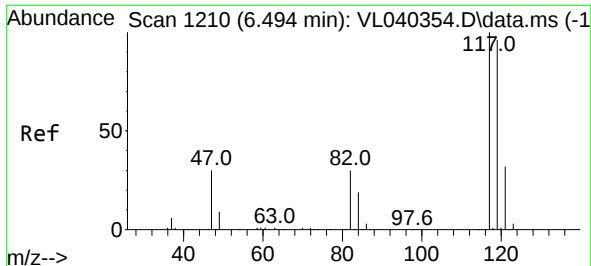
Tgt Ion: 43 Resp: 129911

Ion Ratio Lower Upper

43 100

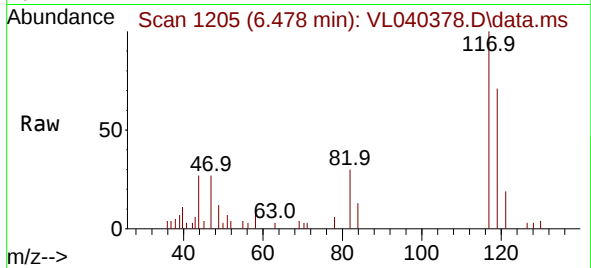
72 24.1 18.4 27.6





#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 6.478 min Scan# 1169
Delta R.T. -0.016 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

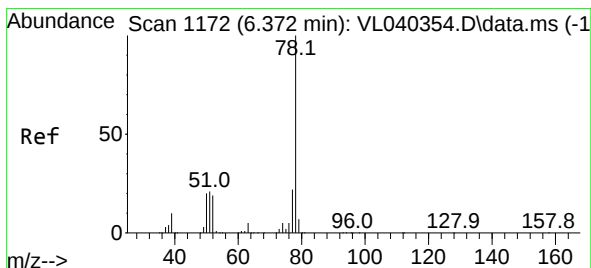
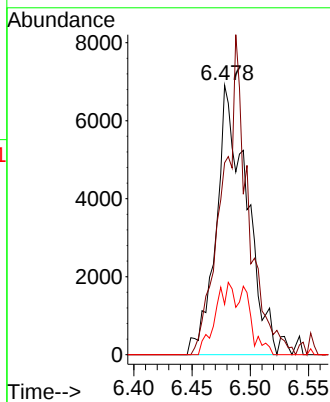
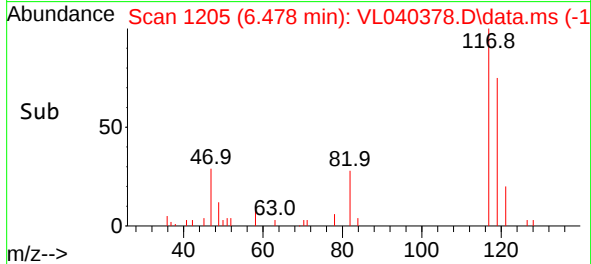
Instrument :
MSVOA_L
ClientSampleId :
AP3-A



Tgt Ion: 117 Resp: 12530
Ion Ratio Lower Upper
117 100
119 71.2 76.6 114.8
121 18.7 25.3 37.9

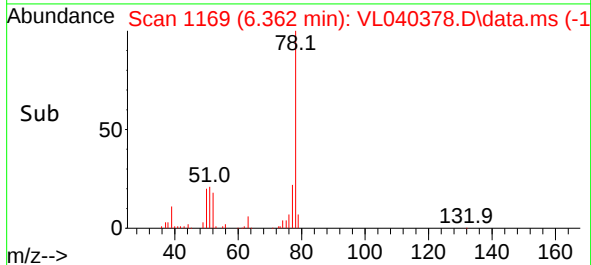
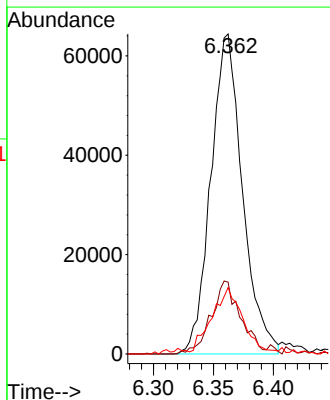
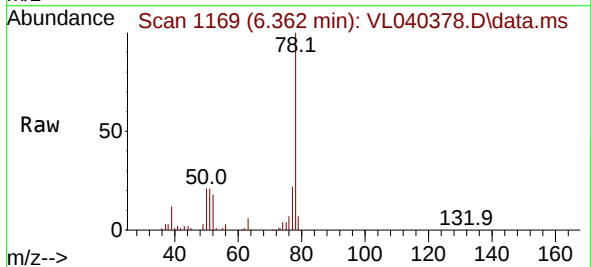
Manual Integrations
APPROVED

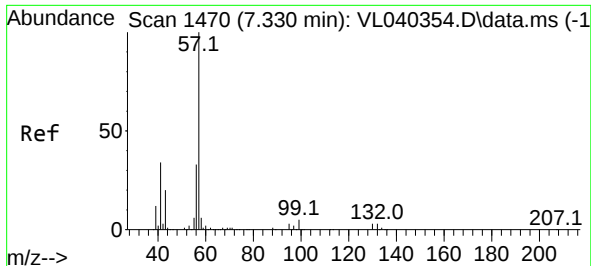
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#36
Benzene
Concen: 0.562 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. -0.010 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

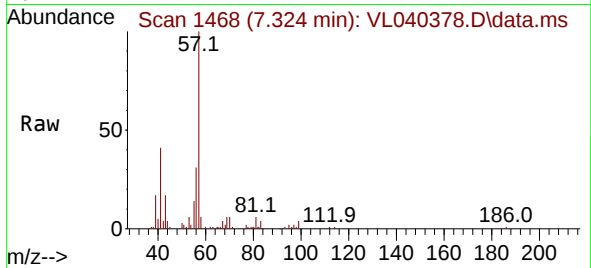
Tgt Ion: 78 Resp: 118087
Ion Ratio Lower Upper
78 100
77 22.2 17.8 26.8
50 19.0 15.6 23.4





#44
2,2,4-Trimethylpentane
Concen: 0.238 ppbv m
RT: 7.324 min Scan# 1468
Delta R.T. -0.006 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

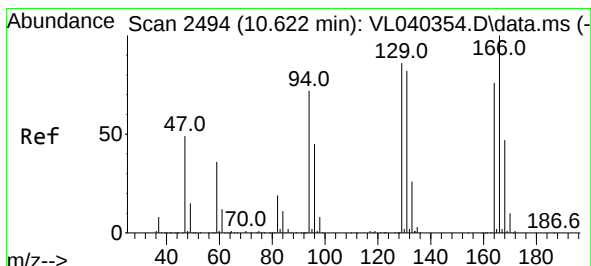
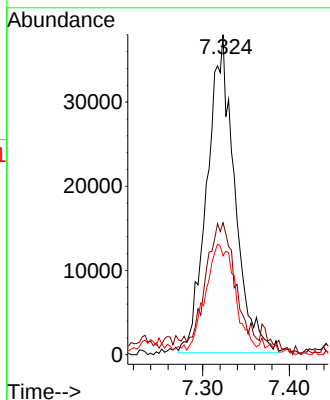
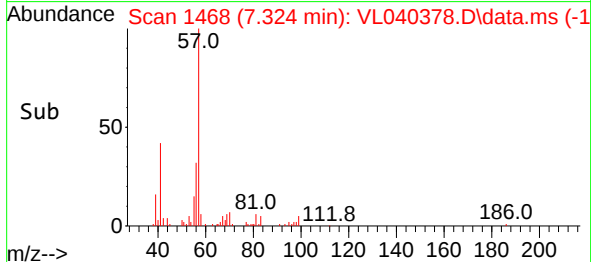
Instrument :
MSVOA_L
ClientSampleId :
AP3-A



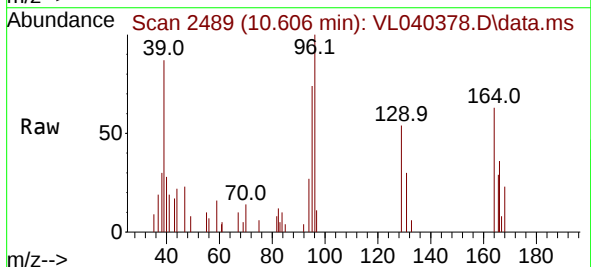
Tgt Ion: 57 Resp: 8344
Ion Ratio Lower Upper
57 100
41 0.0 26.9 40.3#
56 41.7 25.1 37.7#

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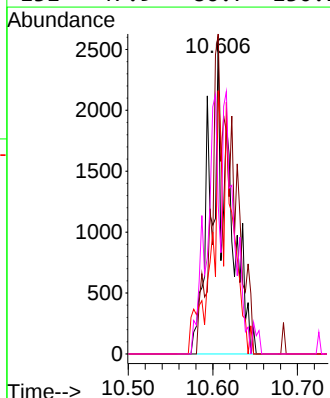
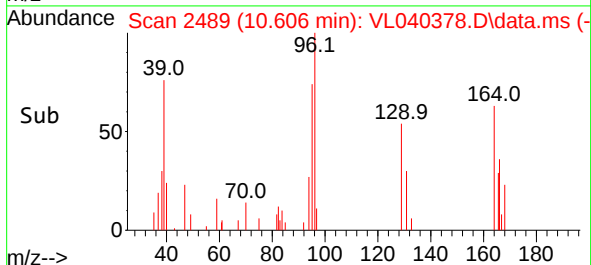
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

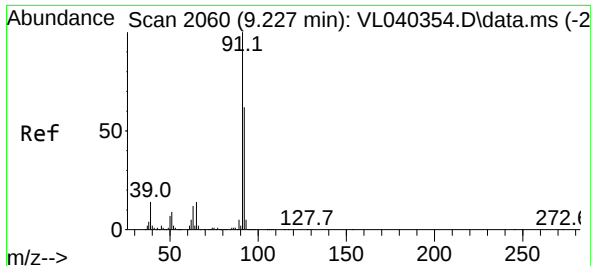


#52
Tetrachloroethene
Concen: 0.061 ppbv m
RT: 10.606 min Scan# 2489
Delta R.T. -0.016 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52



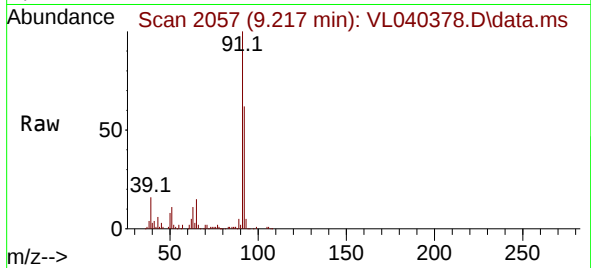
Tgt Ion:164 Resp: 3980
Ion Ratio Lower Upper
164 100
166 57.1 105.2 157.8#
129 84.8 90.3 135.5#
131 47.9 86.7 130.1#





#53
Toluene
Concen: 1.253 ppbv
RT: 9.217 min Scan# 2060
Delta R.T. -0.010 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

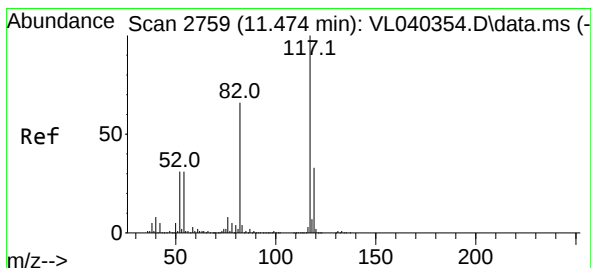
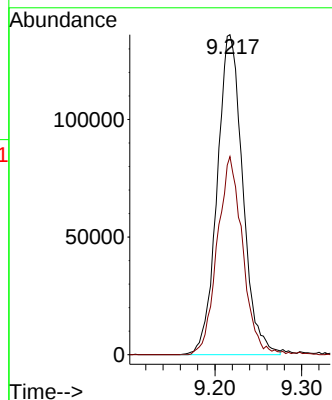
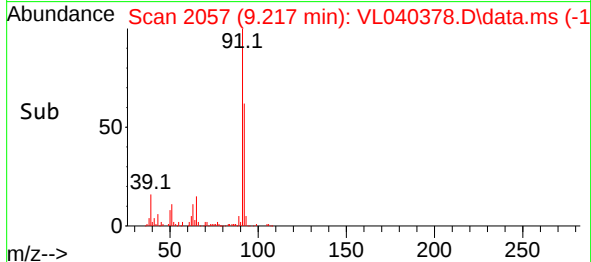
Instrument :
MSVOA_L
ClientSampleId :
AP3-A



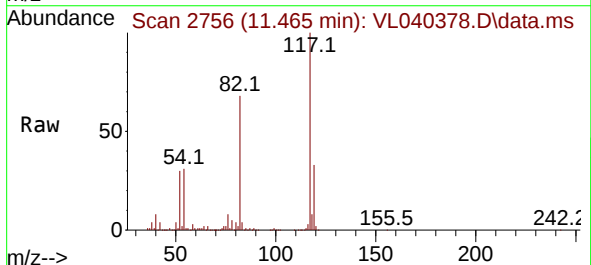
Tgt Ion: 91 Resp: 279139
Ion Ratio Lower Upper
91 100
92 61.9 48.9 73.3

Manual Integrations
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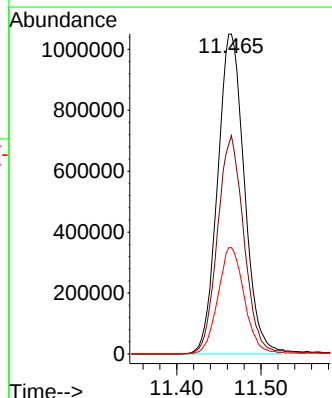
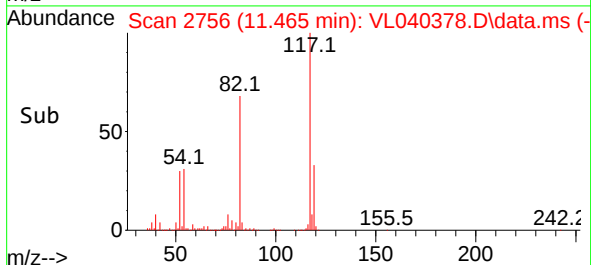
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

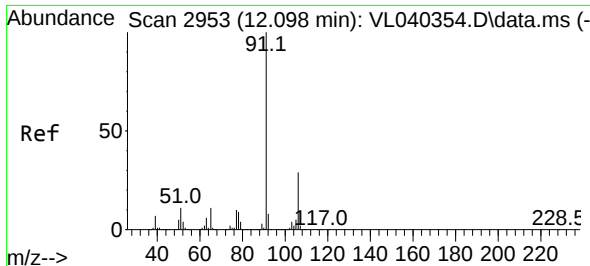


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.009 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52



Tgt Ion:117 Resp: 2308433
Ion Ratio Lower Upper
117 100
82 68.4 52.5 78.7
119 33.0 24.3 36.5





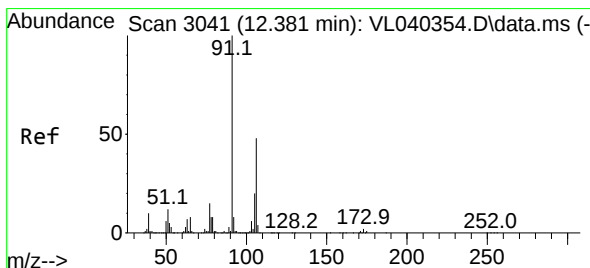
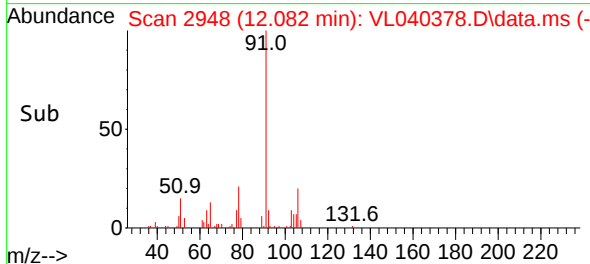
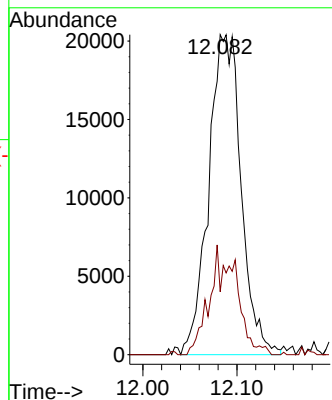
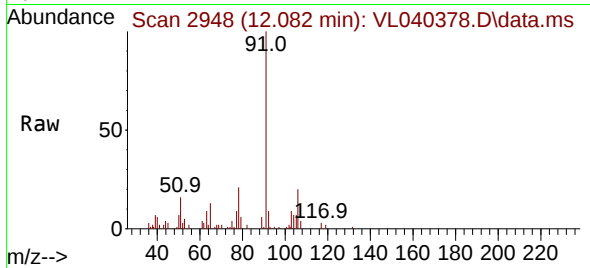
#58
Ethyl Benzene
Concen: 0.173 ppbv m
RT: 12.082 min Scan# 2953
Delta R.T. -0.016 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

Instrument :
MSVOA_L
ClientSampleId :
AP3-A

Tgt Ion: 91 Resp: 4900
Ion Ratio Lower Upper
91 100
106 19.7 23.5 35.3

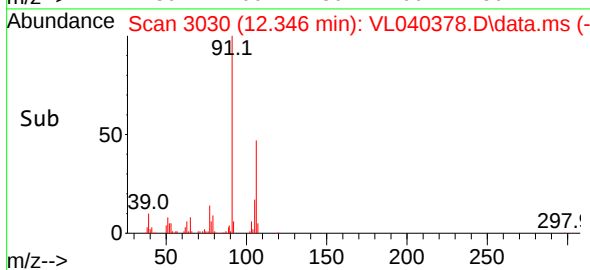
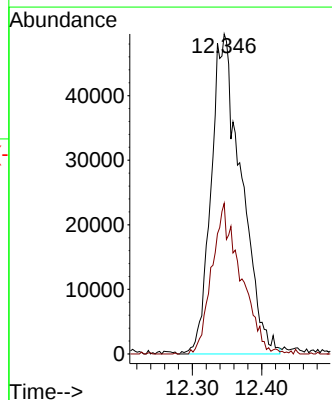
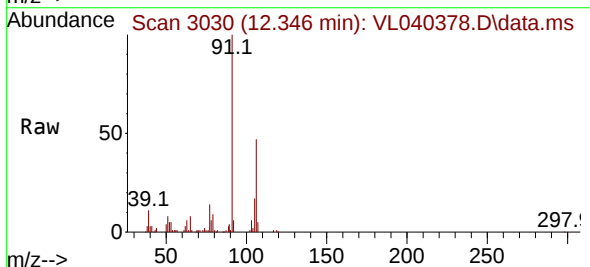
Manual Integrations
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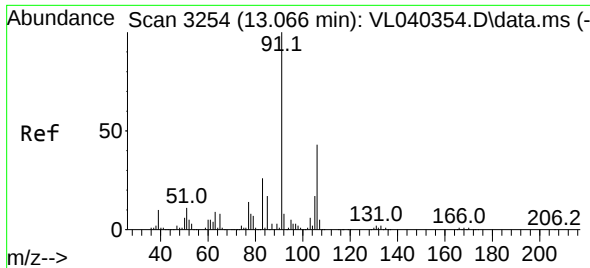
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#59
m/p-Xylene
Concen: 0.573 ppbv m
RT: 12.346 min Scan# 3030
Delta R.T. -0.035 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

Tgt Ion: 91 Resp: 149620
Ion Ratio Lower Upper
91 100
106 0.0 34.7 52.1





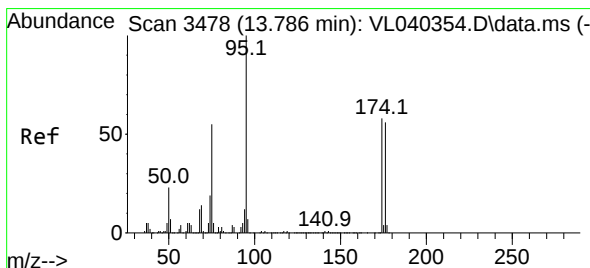
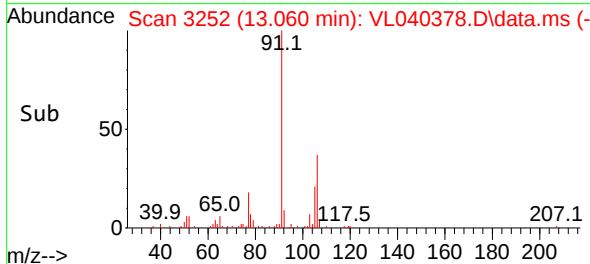
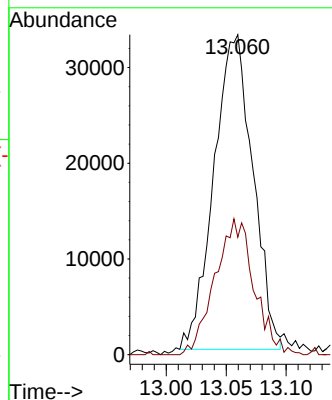
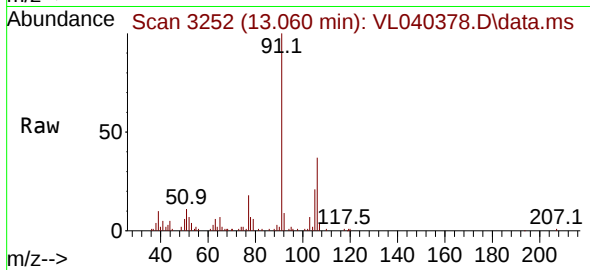
#60
o-Xylene
Concen: 0.297 ppbv
RT: 13.060 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

Instrument :
MSVOA_L
ClientSampleId :
AP3-A

Tgt Ion: 91 Resp: 7444
Ion Ratio Lower Upper
91 100
106 43.3 21.9 65.8

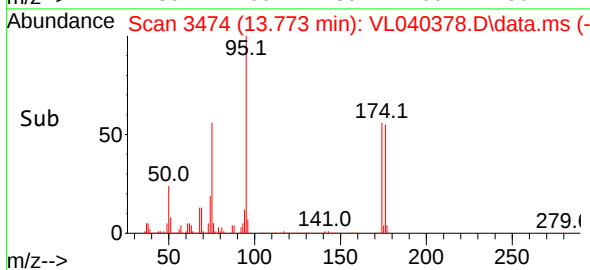
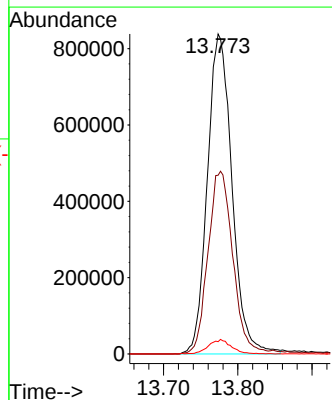
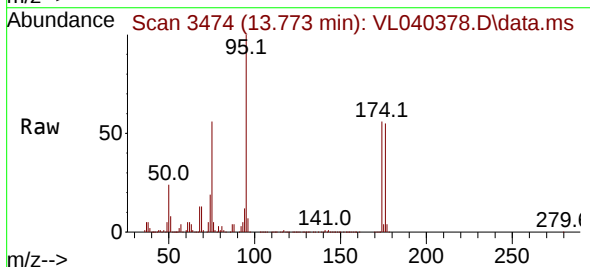
Manual Integrations
APPROVED

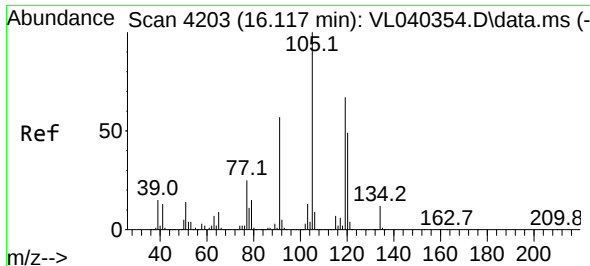
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 10.124 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. -0.013 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

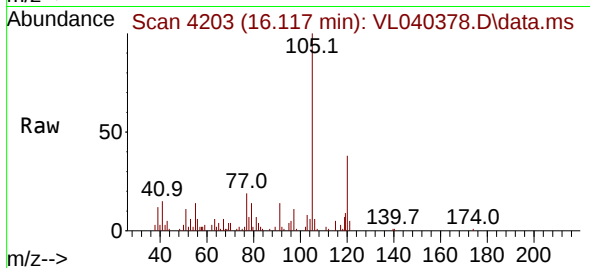
Tgt Ion: 95 Resp: 1932498
Ion Ratio Lower Upper
95 100
174 58.4 47.2 70.8
175 4.3 3.5 5.3





#74
1,2,4-Trimethylbenzene
Concen: 0.215 ppbv m
RT: 16.117 min Scan# 4203
Delta R.T. 0.000 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52

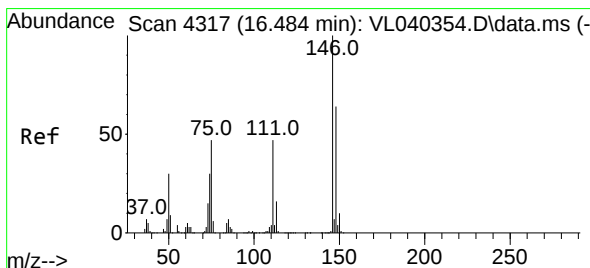
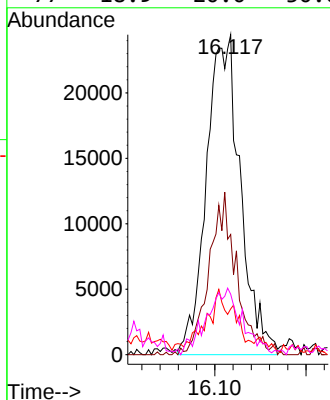
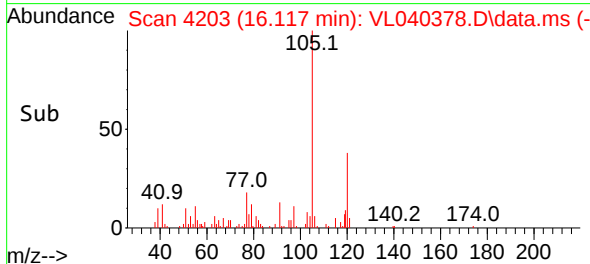
Instrument :
MSVOA_L
ClientSampleId :
AP3-A



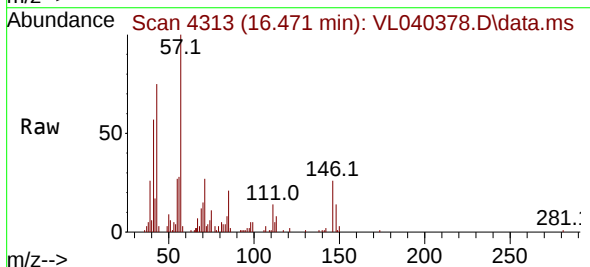
Tgt Ion:105 Resp: 6295
Ion Ratio Lower Upper
105 100
120 37.6 38.9 58.3#
91 14.3 46.0 69.0#
77 18.9 20.0 30.0#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#76
1,4-Dichlorobenzene
Concen: 0.098 ppbv m
RT: 16.471 min Scan# 4313
Delta R.T. -0.013 min
Lab File: VL040378.D
Acq: 19 Apr 2023 13:52



Tgt Ion:146 Resp: 15493
Ion Ratio Lower Upper
146 100
111 0.0 23.8 71.4#
148 0.0 32.4 97.2#

