

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040380.D
 Acq On : 19 Apr 2023 15:13
 Operator : SY/MD
 Sample : 02368-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AP04-A

Manual Integrations
 APPROVED

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

Quant Time: Apr 20 05:10:31 2023

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

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	1094311	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2749322	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2436391	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1967832	9.767	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.710	85	93445	0.474	ppbv	93
3) Chlorodifluoromethane	2.658	51	52849m	0.370	ppbv	
4) Chloromethane	2.796	50	39483	0.437	ppbv	100
9) Propene	2.677	41	195527	3.461	ppbv	93
10) Heptane	7.574	43	113659	0.885	ppbv	97
11) Trichlorofluoromethane	3.546	101	40977	0.205	ppbv	91
13) Ethanol	3.221	45	494213	104.794	ppbv	98
15) Acetone	3.452	43	1071917	6.916	ppbv #	82
19) Isopropyl Alcohol	3.568	45	131654	1.862	ppbv #	1
20) Methylene Chloride	3.918	84	447871	7.238	ppbv	99
26) Hexane	5.201	57	1026167	9.333	ppbv #	38
30) Cyclohexane	6.600	84	55003	0.646	ppbv #	91
34) 2-Butanone	4.777	43	283673	1.913	ppbv	100
35) Carbon Tetrachloride	6.484	117	11972m	0.062	ppbv	
36) Benzene	6.359	78	866739	3.864	ppbv	99
44) 2,2,4-Trimethylpentane	7.320	57	476745	1.272	ppbv #	86
53) Toluene	9.217	91	786550	3.308	ppbv	99
58) Ethyl Benzene	12.092	91	148867	0.497	ppbv	93
59) m/p-Xylene	12.346	91	424561	1.540	ppbv	100
60) o-Xylene	13.063	91	166682m	0.630	ppbv	
73) 1,3,5-Trimethylbenzene	15.352	105	39145m	0.145	ppbv	
74) 1,2,4-Trimethylbenzene	16.108	105	129370m	0.420	ppbv	

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

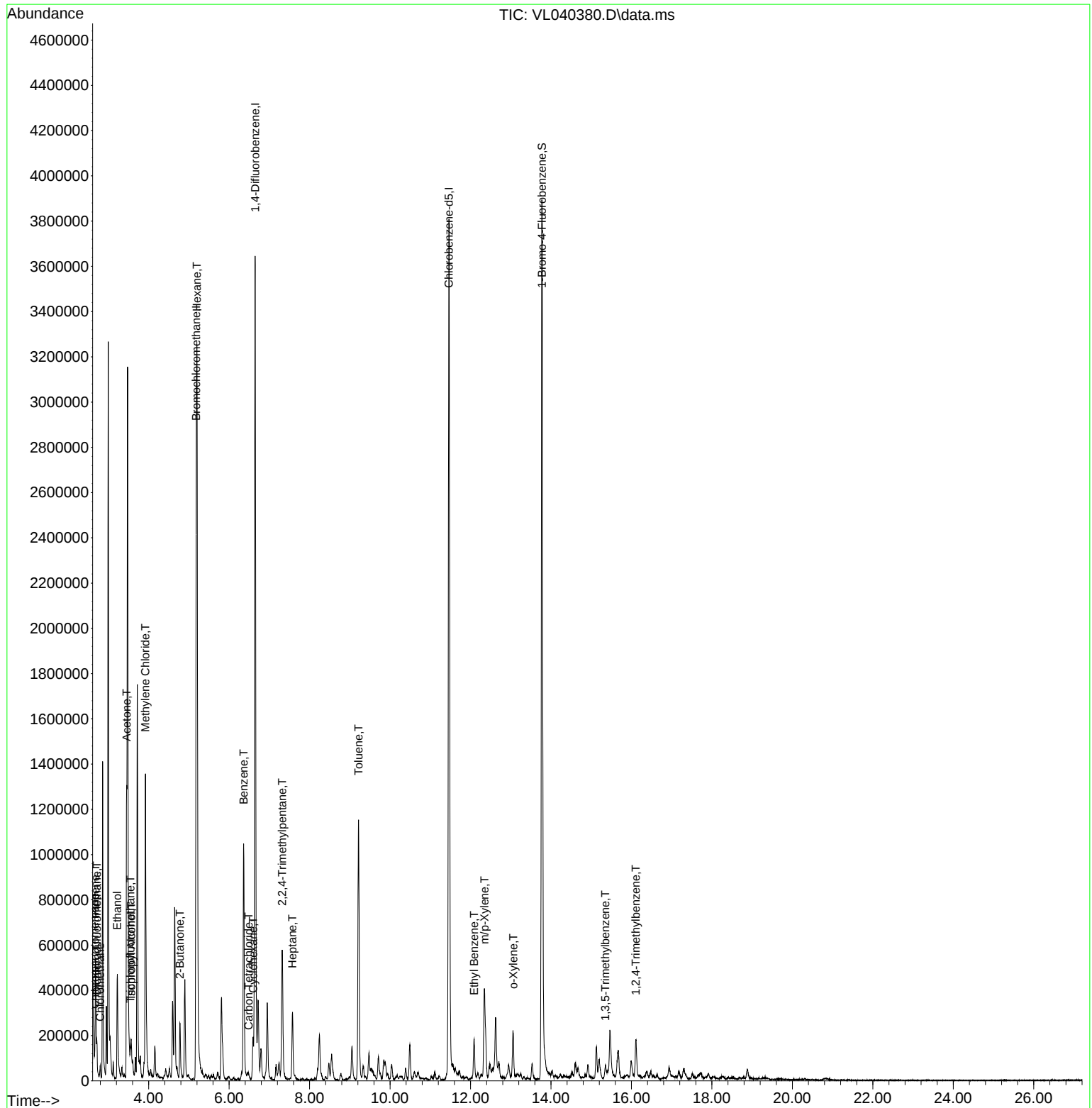
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
Data File : VL040380.D
Acq On : 19 Apr 2023 15:13
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

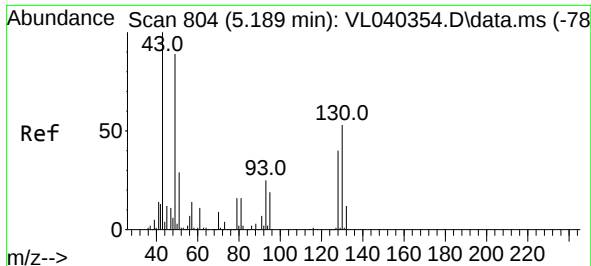
Instrument :
MSVOA_L
ClientSampleId :
AP04-A

Quant Time: Apr 20 05:10:31 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Apr 13 14:37:02 2023
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Manual Integrations
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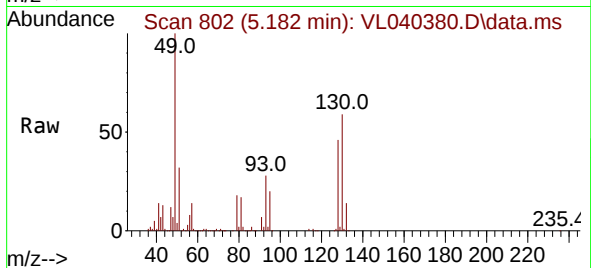
Reviewed By : Semsettin Yesilyurt 04/20/2023
Supervised By : Mahesh Dadoda 04/22/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

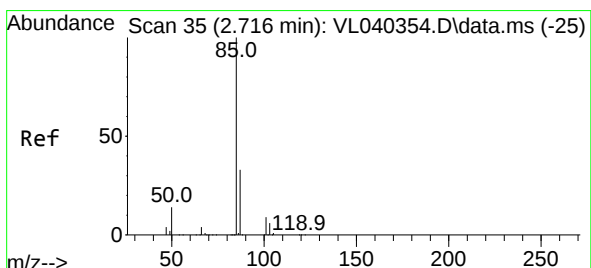
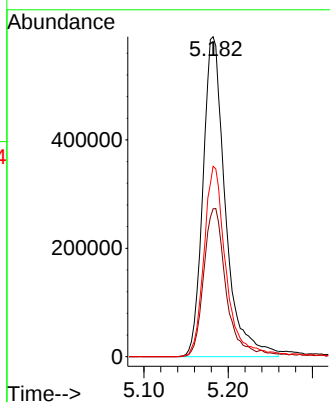
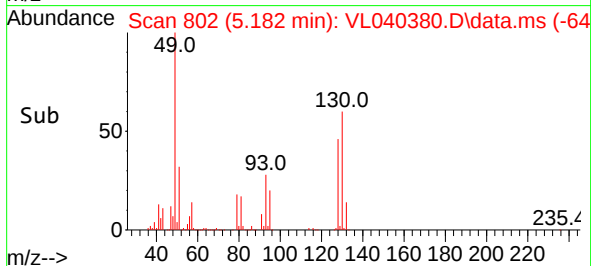
Instrument :
MSVOA_L
ClientSampleId :
AP04-A



Tgt Ion: 49 Resp: 109431
Ion Ratio Lower Upper
49 100
128 47.4 23.7 71.1
130 59.8 29.9 89.8

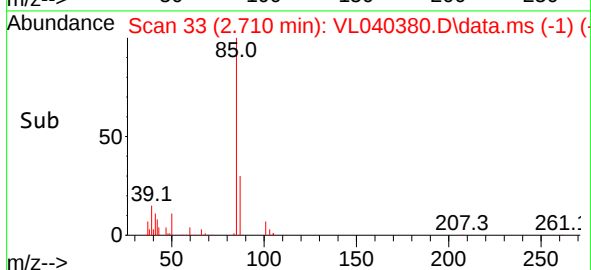
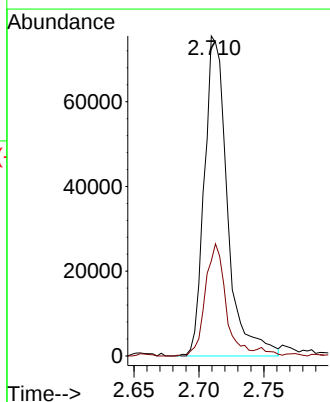
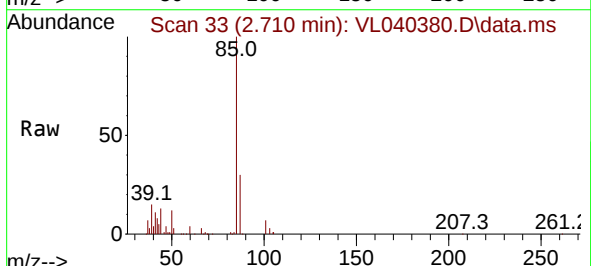
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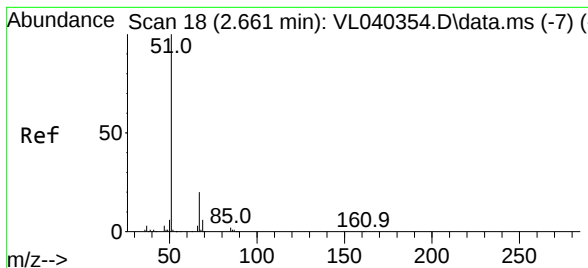
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#2
Dichlorodifluoromethane
Concen: 0.474 ppbv
RT: 2.710 min Scan# 33
Delta R.T. -0.006 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 85 Resp: 93445
Ion Ratio Lower Upper
85 100
87 29.5 26.6 40.0





#3

Chlorodifluoromethane

Concen: 0.370 ppbv m

RT: 2.658 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040380.D

Acq: 19 Apr 2023 15:13

Instrument :

MSVOA_L

ClientSampleId :

AP04-A

Tgt Ion: 51 Resp: 52849

Ion Ratio Lower Upper

51 100

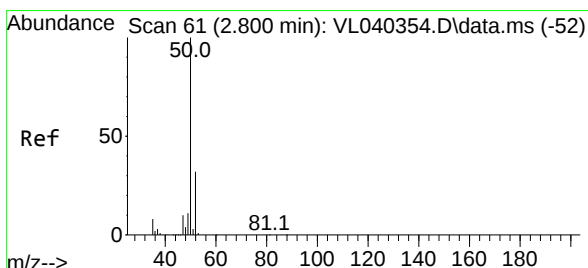
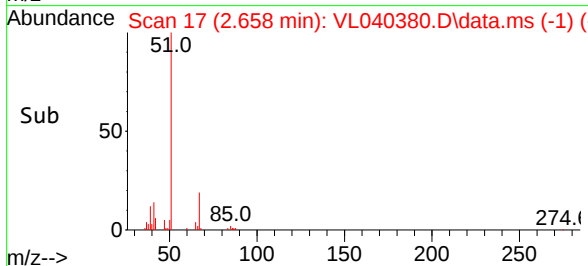
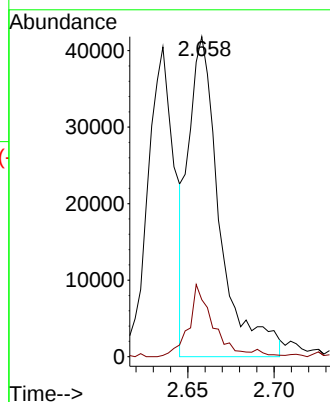
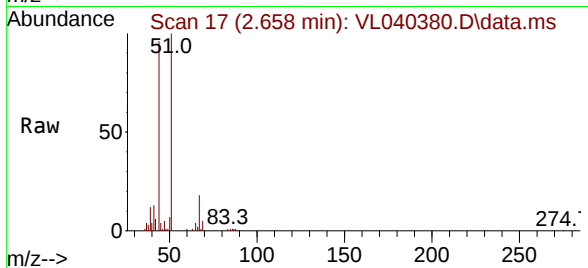
67 18.9 15.5 23.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/20/2023

Supervised By :Mahesh Dadoda 04/22/2023



#4

Chloromethane

Concen: 0.437 ppbv

RT: 2.796 min Scan# 60

Delta R.T. -0.004 min

Lab File: VL040380.D

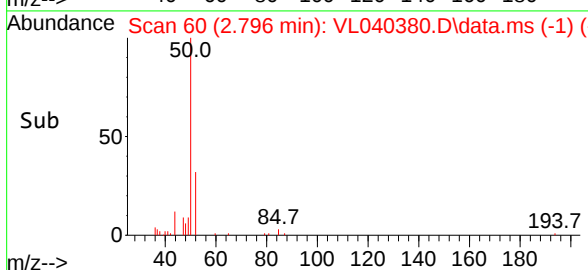
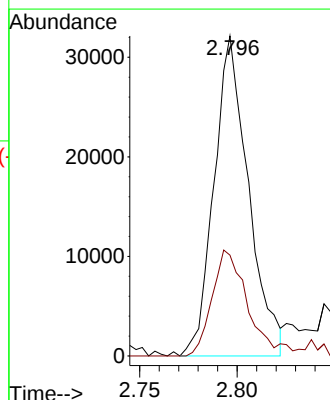
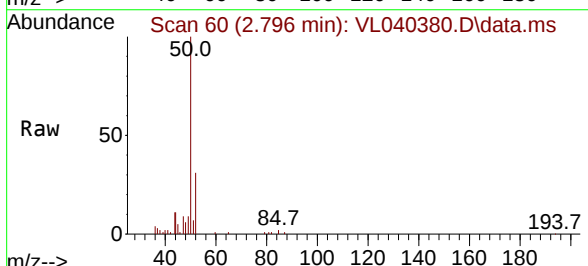
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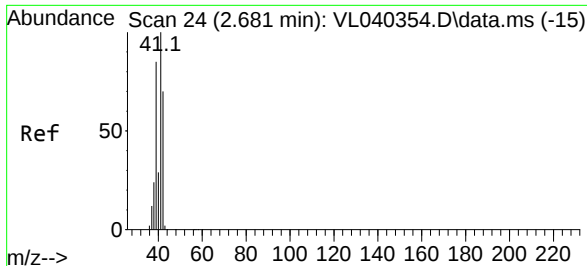
Tgt Ion: 50 Resp: 39483

Ion Ratio Lower Upper

50 100

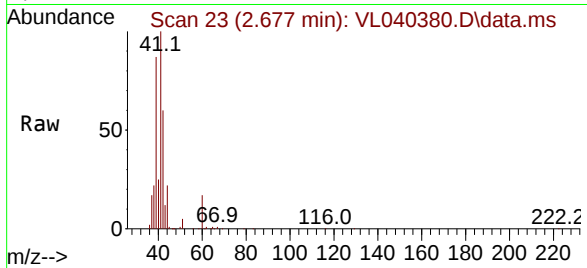
52 31.5 25.3 37.9





#9
 Propene
 Concen: 3.461 ppbv
 RT: 2.677 min Scan# 21
 Delta R.T. -0.004 min
 Lab File: VL040380.D
 Acq: 19 Apr 2023 15:13

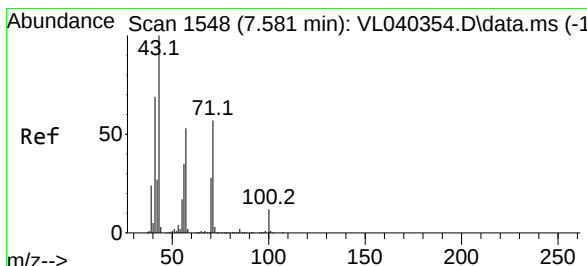
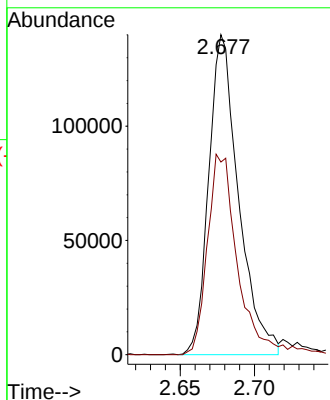
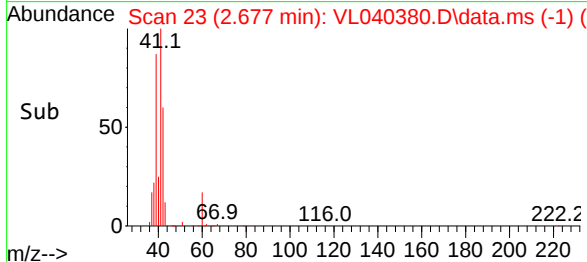
Instrument :
 MSVOA_L
 ClientSampleId :
 AP04-A



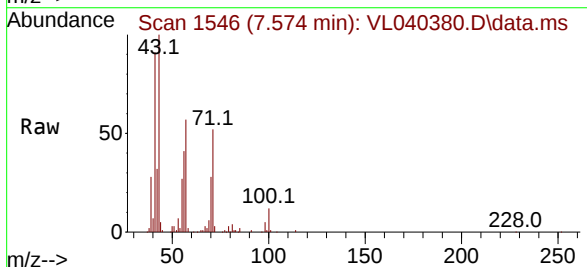
Tgt Ion: 41 Resp: 19552
 Ion Ratio Lower Upper
 41 100
 42 64.6 56.5 84.7

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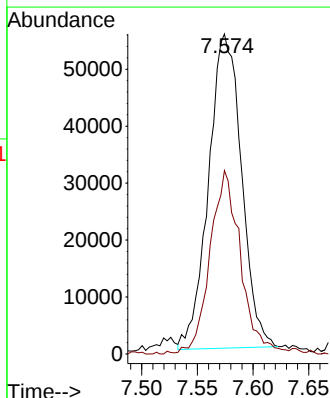
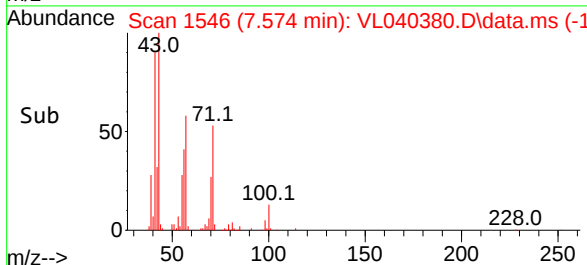
Reviewed By :Semsettin Yesilyurt 04/20/2023
 Supervised By :Mahesh Dadoda 04/22/2023

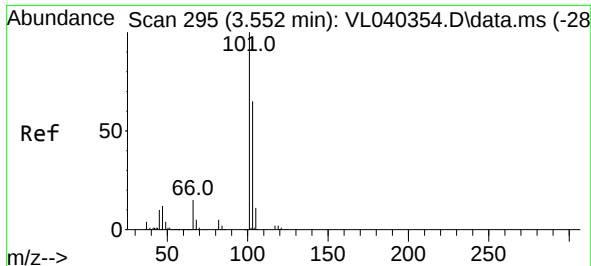


#10
 Heptane
 Concen: 0.885 ppbv
 RT: 7.574 min Scan# 1546
 Delta R.T. -0.007 min
 Lab File: VL040380.D
 Acq: 19 Apr 2023 15:13



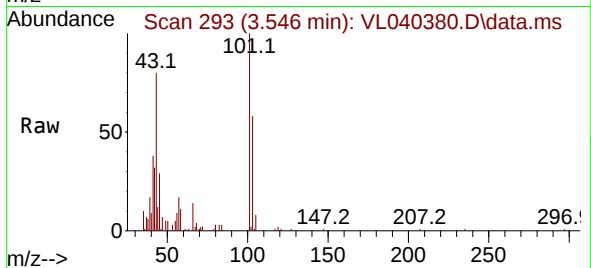
Tgt Ion: 43 Resp: 113659
 Ion Ratio Lower Upper
 43 100
 57 54.7 42.2 63.4





#11
Trichlorofluoromethane
Concen: 0.205 ppbv
RT: 3.546 min Scan# 295
Delta R.T. -0.006 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

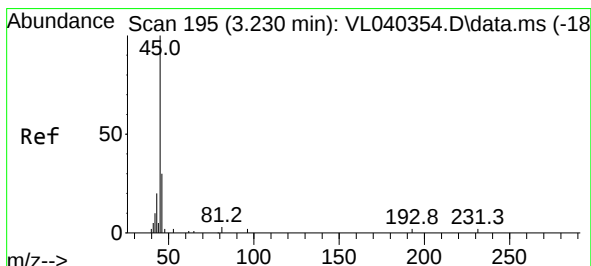
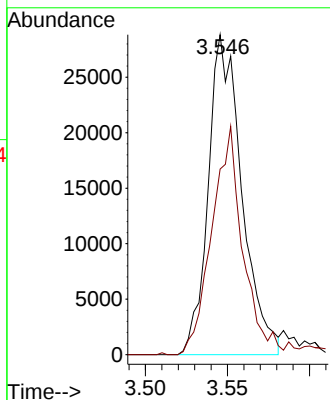
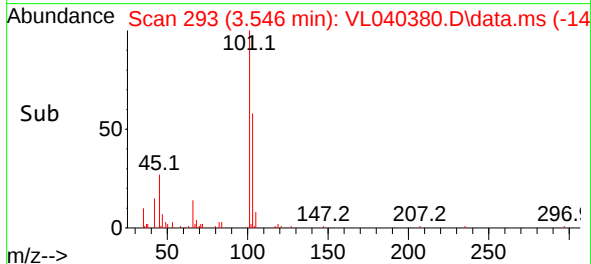
Instrument :
MSVOA_L
ClientSampleId :
AP04-A



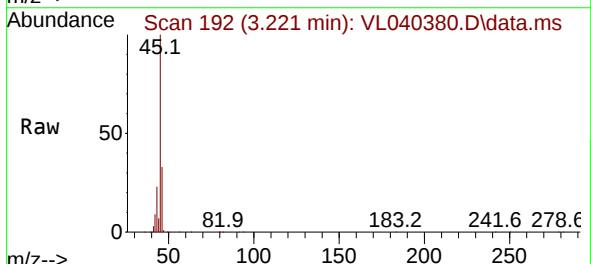
Tgt Ion:101 Resp: 4097
Ion Ratio Lower Upper
101 100
103 58.0 52.2 78.4

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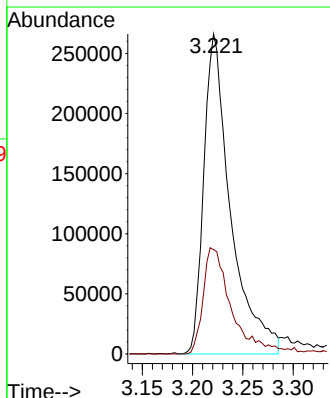
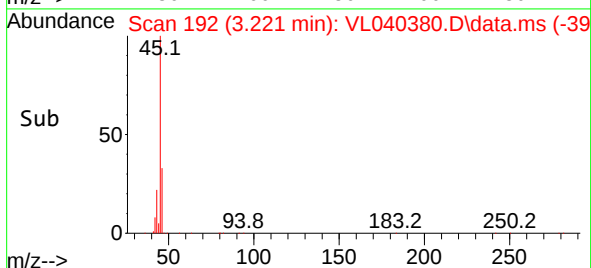
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

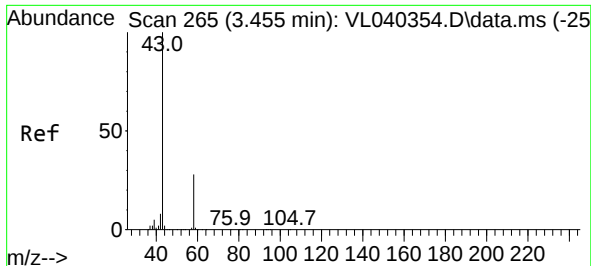


#13
Ethanol
Concen: 104.794 ppbv
RT: 3.221 min Scan# 192
Delta R.T. -0.009 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13



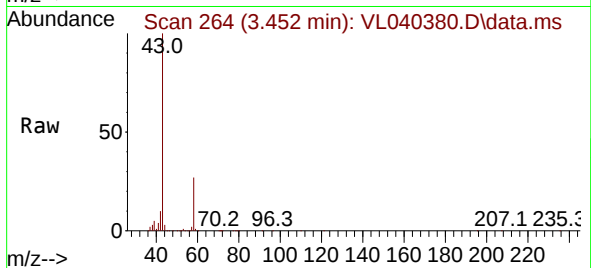
Tgt Ion: 45 Resp: 494213
Ion Ratio Lower Upper
45 100
46 37.1 15.3 61.3





#15
Acetone
Concen: 6.916 ppbv
RT: 3.452 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

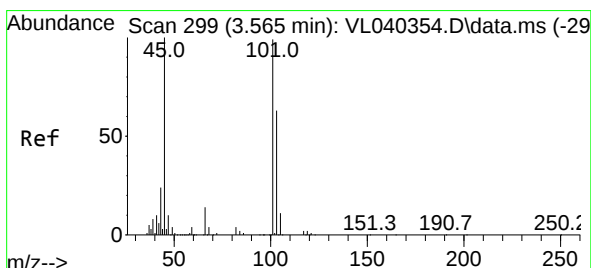
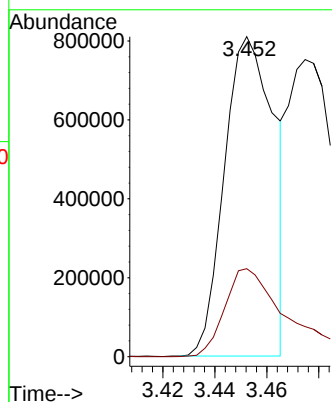
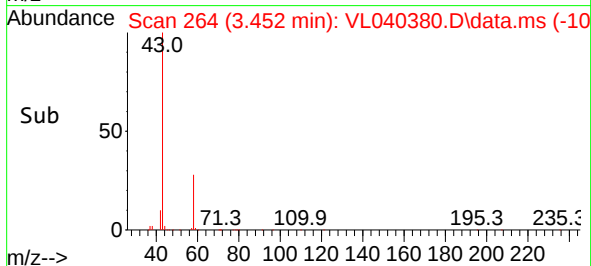
Instrument :
MSVOA_L
ClientSampleId :
AP04-A



Tgt Ion: 43 Resp: 107191
Ion Ratio Lower Upper
43 100
58 37.2 22.2 33.2

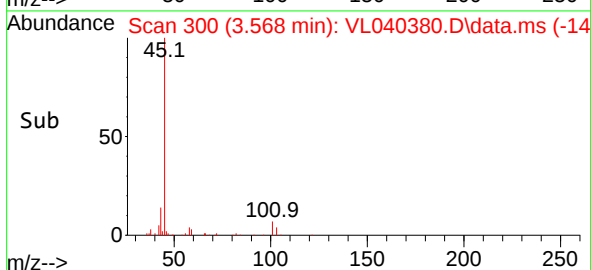
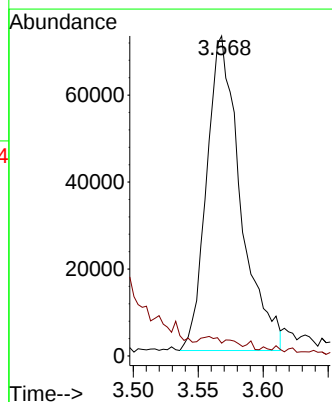
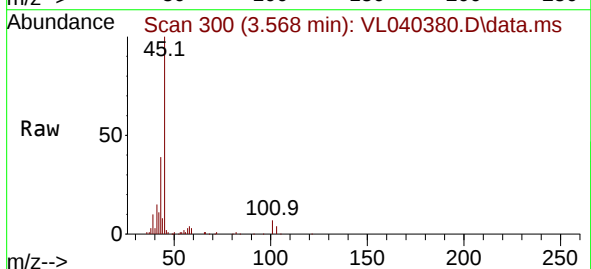
Manual Integrations
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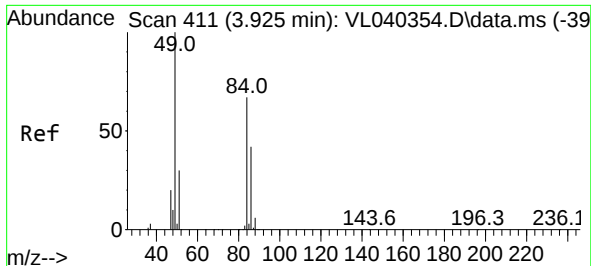
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#19
Isopropyl Alcohol
Concen: 1.862 ppbv
RT: 3.568 min Scan# 300
Delta R.T. 0.003 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

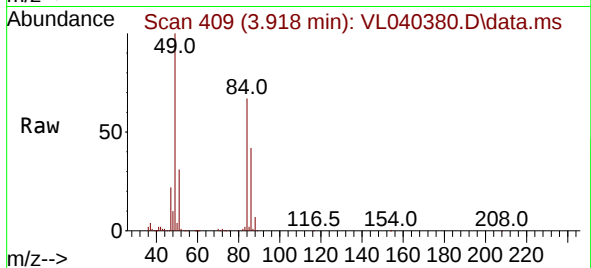
Tgt Ion: 45 Resp: 131654
Ion Ratio Lower Upper
45 100
58 313.2 2.6 4.0





#20
Methylene Chloride
Concen: 7.238 ppbv
RT: 3.918 min Scan# 409
Delta R.T. -0.007 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

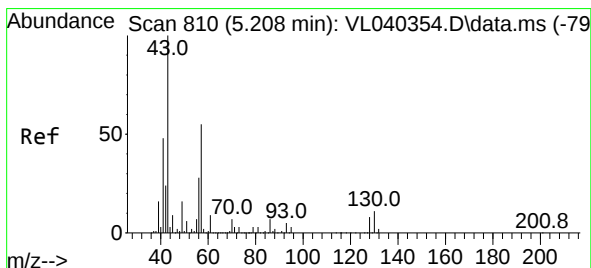
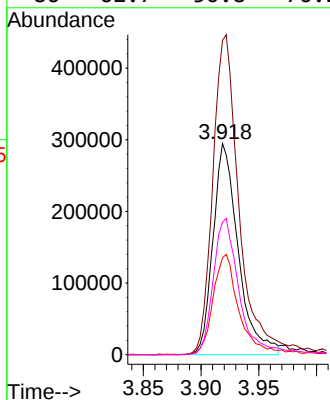
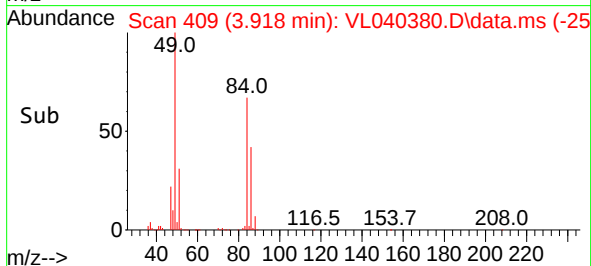
Instrument :
MSVOA_L
ClientSampleId :
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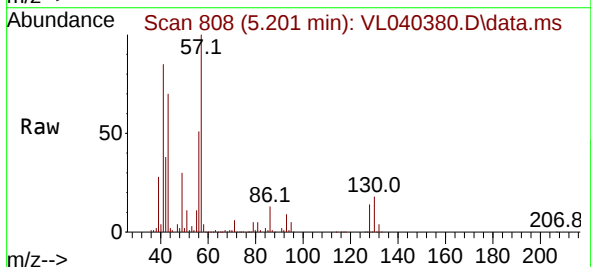
Tgt Ion: 84 Resp: 44787
Ion Ratio Lower Upper
84 100
49 148.7 120.1 180.1
51 45.7 36.3 54.5
86 62.7 50.8 76.2

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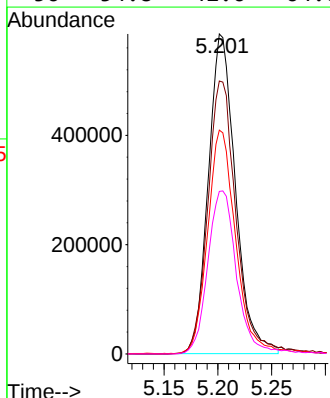
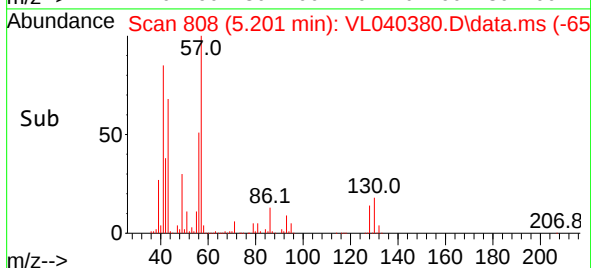
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

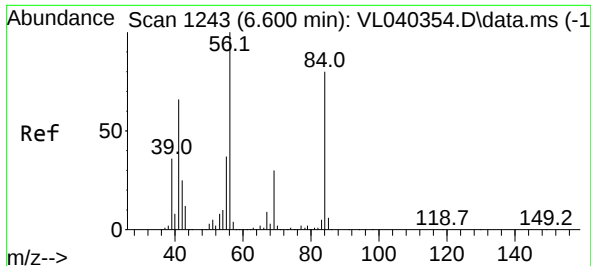


#26
Hexane
Concen: 9.333 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.007 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13



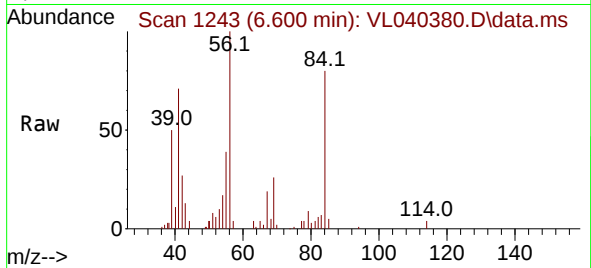
Tgt Ion: 57 Resp: 1026167
Ion Ratio Lower Upper
57 100
41 90.4 74.8 112.2
43 73.9 192.7 289.1#
56 54.8 42.6 64.0





#30
Cyclohexane
Concen: 0.646 ppbv
RT: 6.600 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

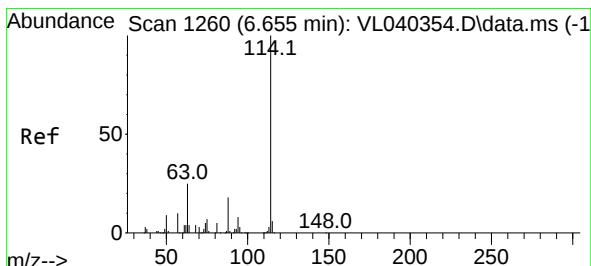
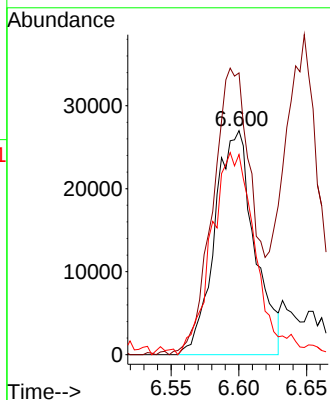
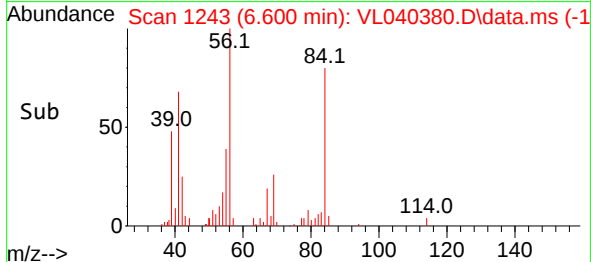
Instrument :
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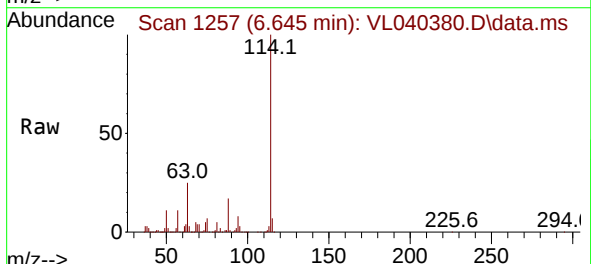
Tgt Ion: 84 Resp: 5500
Ion Ratio Lower Upper
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56 131.0 107.0 160.6
41 102.1 66.7 100.1

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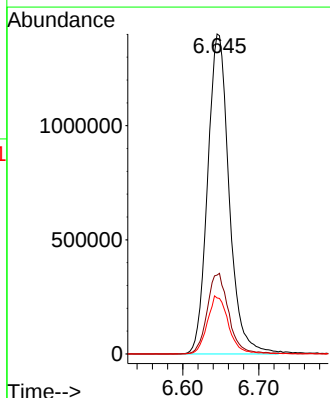
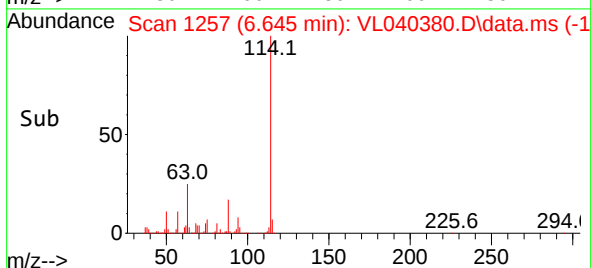
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

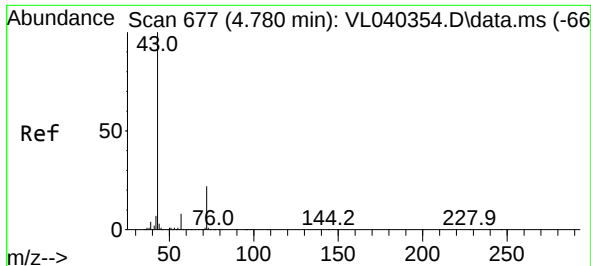


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.010 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13



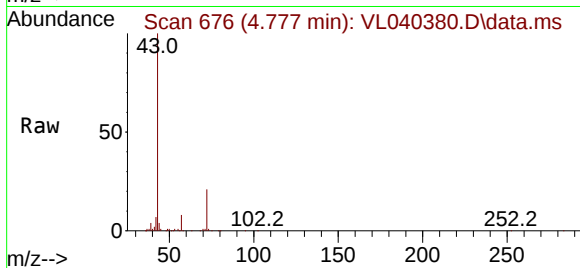
Tgt Ion:114 Resp: 2749322
Ion Ratio Lower Upper
114 100
63 25.5 21.4 32.0
88 18.0 14.6 22.0





#34
2-Butanone
Concen: 1.913 ppbv
RT: 4.777 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

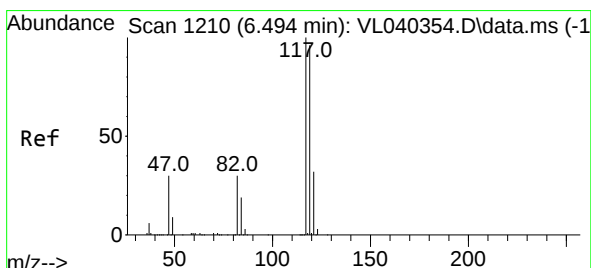
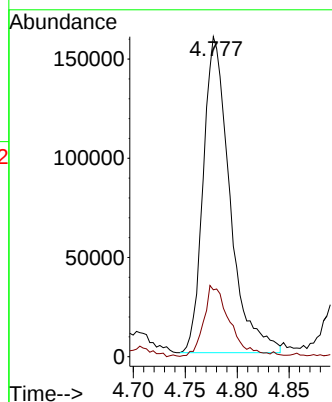
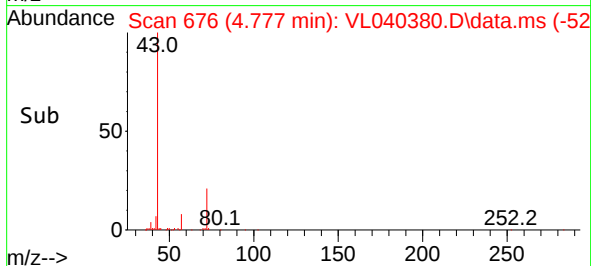
Instrument :
MSVOA_L
ClientSampleId :
AP04-A



Tgt Ion: 43 Resp: 28367
Ion Ratio Lower Upper
43 100
72 22.8 18.4 27.6

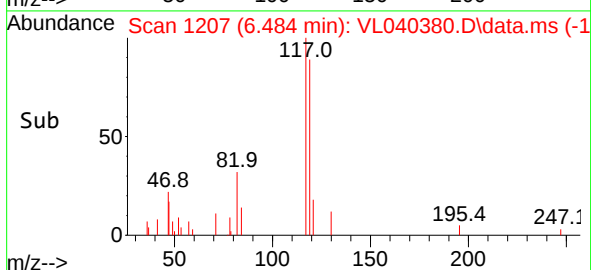
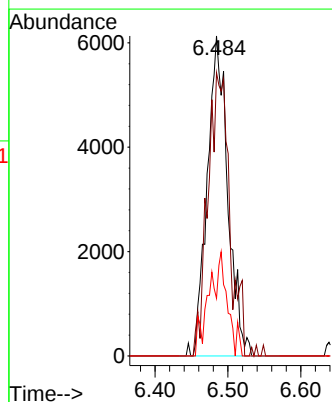
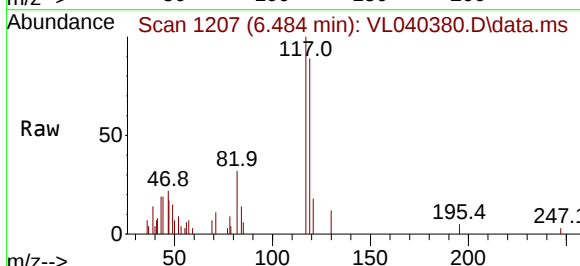
Manual Integrations
APPROVED

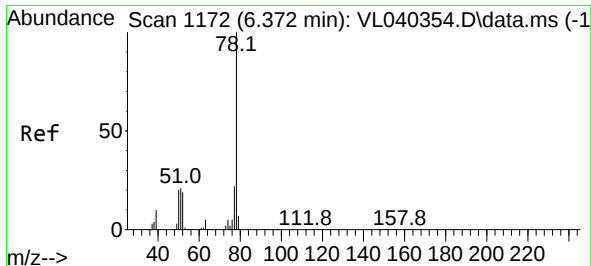
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#35
Carbon Tetrachloride
Concen: 0.062 ppbv m
RT: 6.484 min Scan# 1207
Delta R.T. -0.010 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

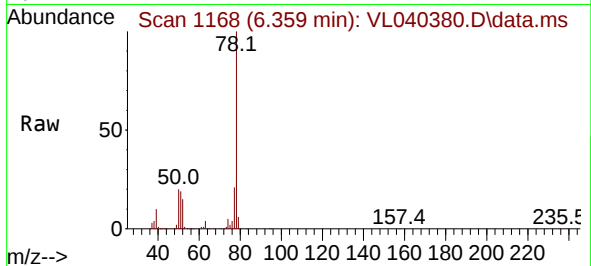
Tgt Ion:117 Resp: 11972
Ion Ratio Lower Upper
117 100
119 88.6 76.6 114.8
121 18.0 25.3 37.9#





#36
Benzene
Concen: 3.864 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. -0.013 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

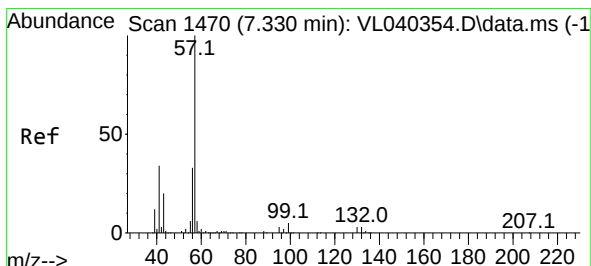
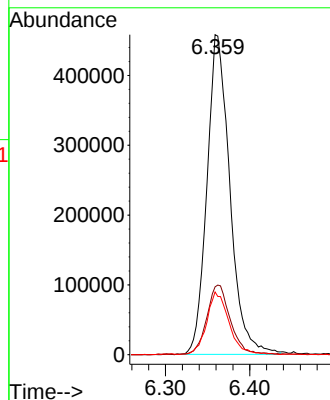
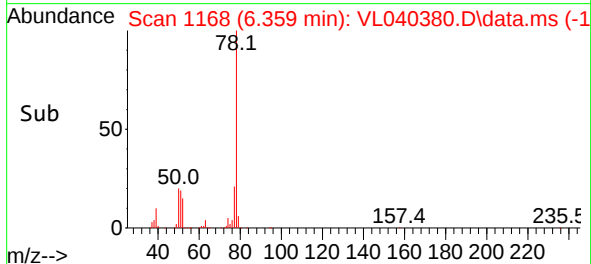
Instrument :
MSVOA_L
ClientSampleId :
AP04-A



Tgt Ion: 78 Resp: 866739
Ion Ratio Lower Upper
78 100
77 21.1 17.8 26.8
50 19.6 15.6 23.4

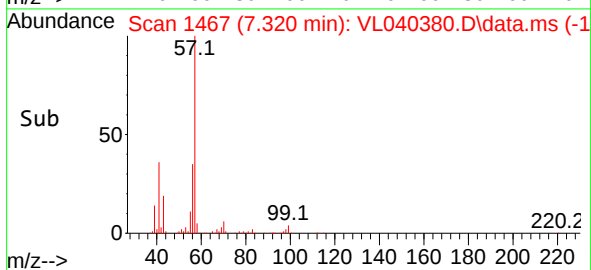
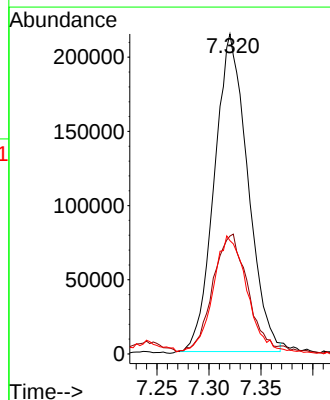
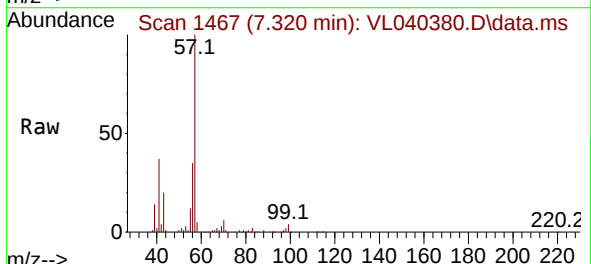
Manual Integrations
APPROVED

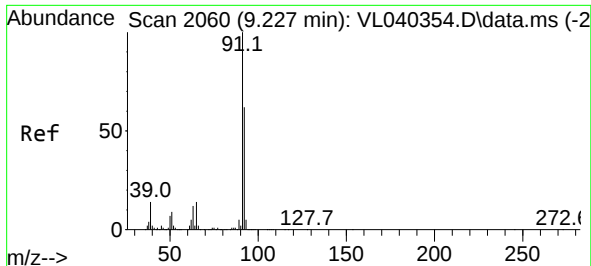
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#44
2,2,4-Trimethylpentane
Concen: 1.272 ppbv
RT: 7.320 min Scan# 1467
Delta R.T. -0.010 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

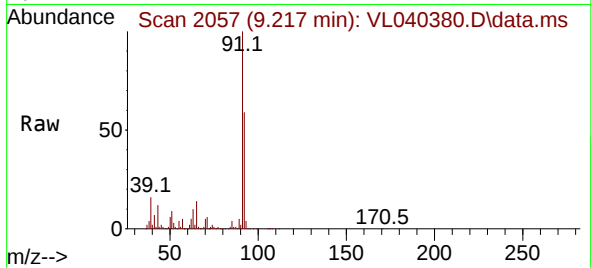
Tgt Ion: 57 Resp: 476745
Ion Ratio Lower Upper
57 100
41 41.7 26.9 40.3#
56 38.6 25.1 37.7#





#53
Toluene
Concen: 3.308 ppbv
RT: 9.217 min Scan# 2060
Delta R.T. -0.010 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

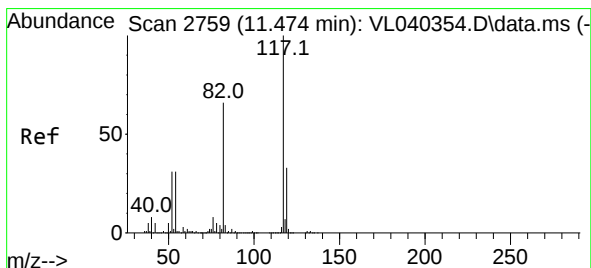
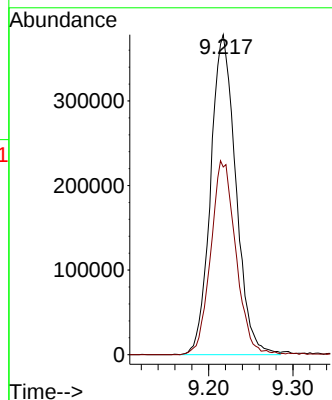
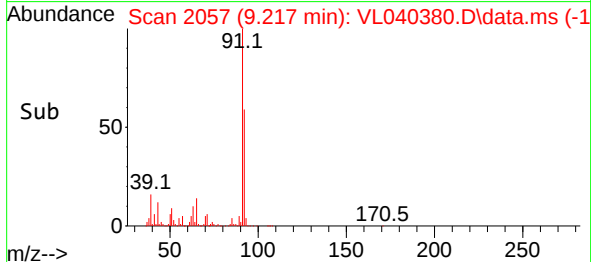
Instrument :
MSVOA_L
ClientSampleId :
AP04-A



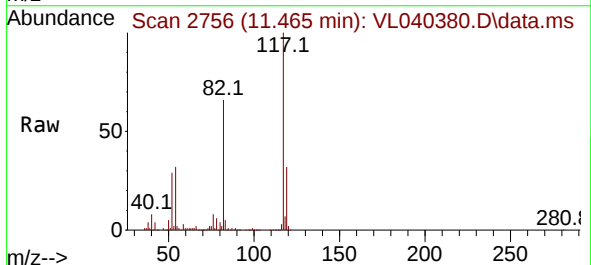
Tgt Ion: 91 Resp: 786550
Ion Ratio Lower Upper
91 100
92 60.3 48.9 73.3

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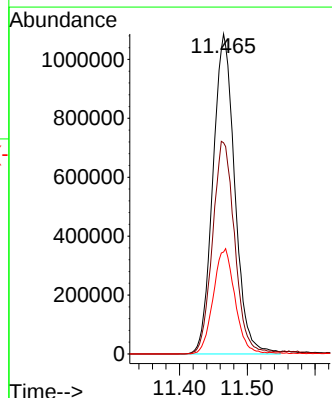
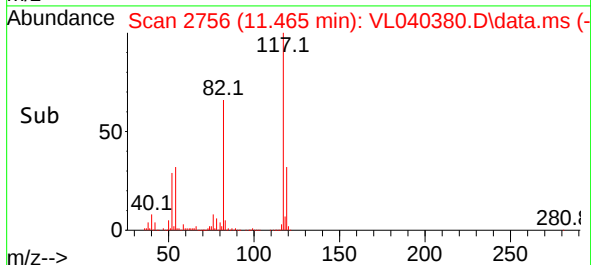
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

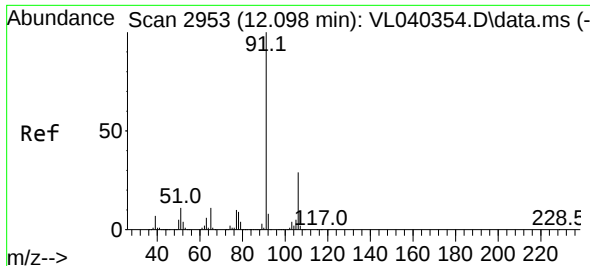


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.009 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13



Tgt Ion:117 Resp: 2436391
Ion Ratio Lower Upper
117 100
82 68.7 52.5 78.7
119 33.1 24.3 36.5





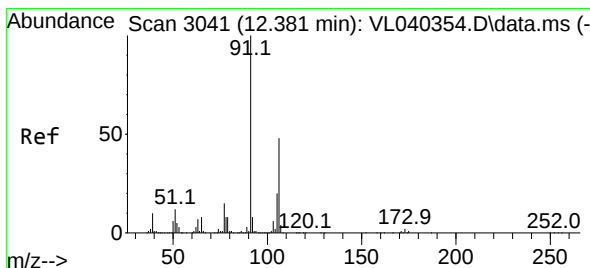
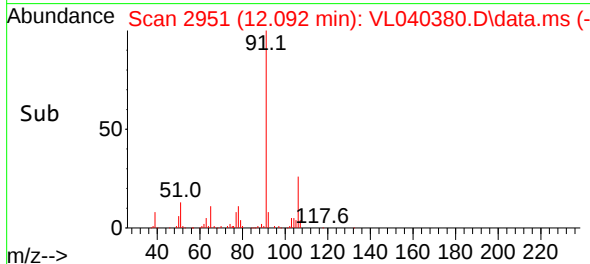
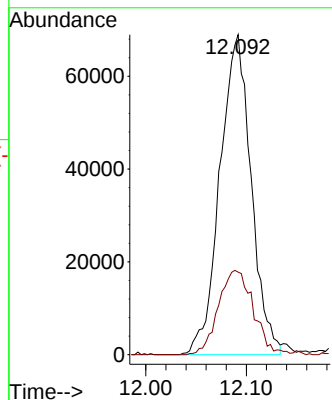
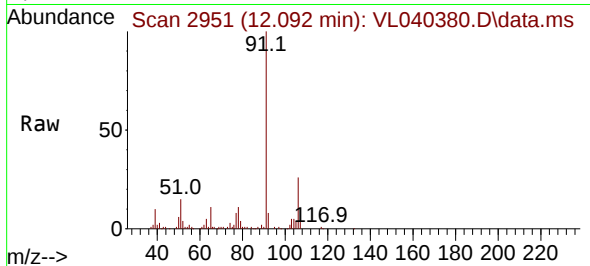
#58
Ethyl Benzene
Concen: 0.497 ppbv
RT: 12.092 min Scan# 2951
Delta R.T. -0.006 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Instrument :
MSVOA_L
ClientSampleId :
AP04-A

Tgt Ion: 91 Resp: 14886
Ion Ratio Lower Upper
91 100
106 25.8 23.5 35.3

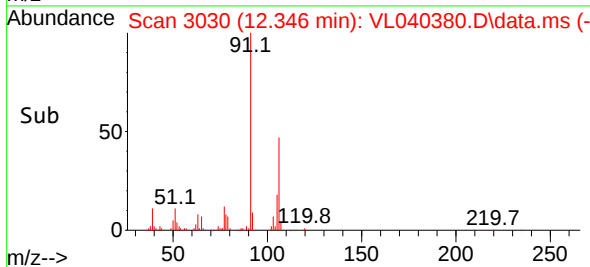
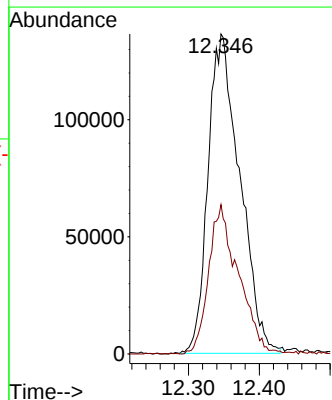
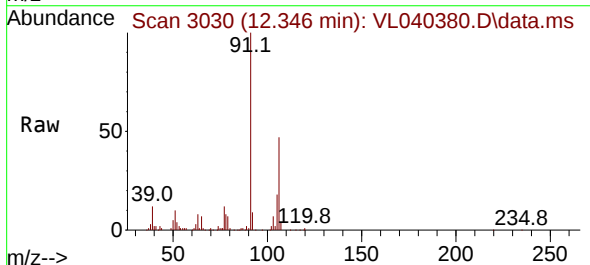
Manual Integrations
APPROVED

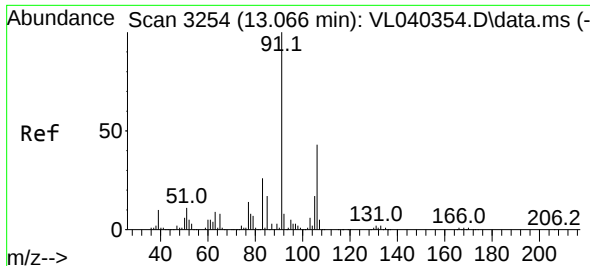
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#59
m/p-Xylene
Concen: 1.540 ppbv
RT: 12.346 min Scan# 3030
Delta R.T. -0.035 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 91 Resp: 424561
Ion Ratio Lower Upper
91 100
106 43.4 34.7 52.1





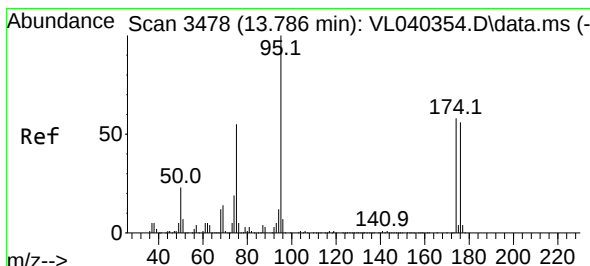
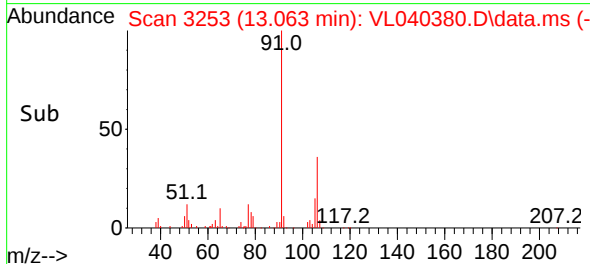
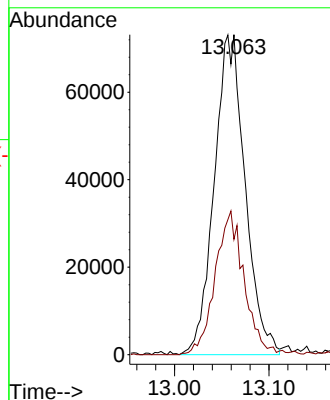
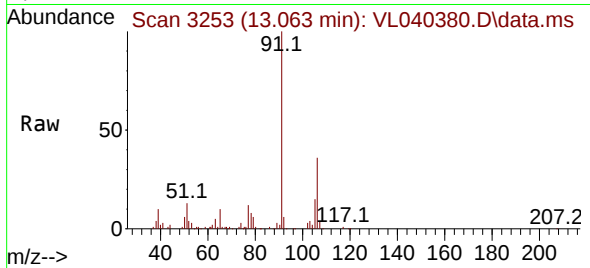
#60
o-Xylene
Concen: 0.630 ppbv m
RT: 13.063 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Instrument :
MSVOA_L
ClientSampleId :
AP04-A

Tgt Ion: 91 Resp: 166682
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.8

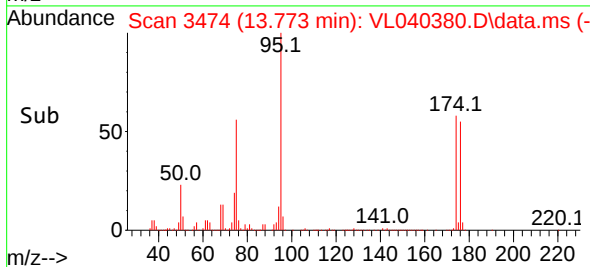
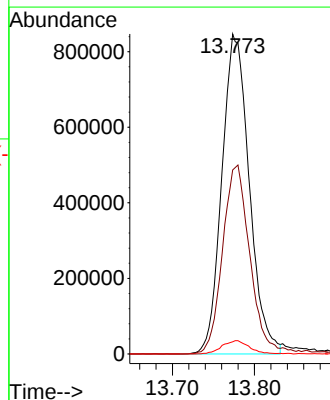
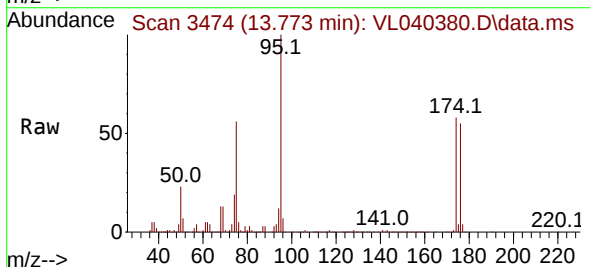
Manual Integrations
APPROVED

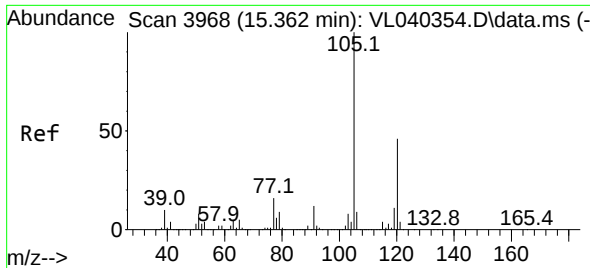
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.767 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. -0.013 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

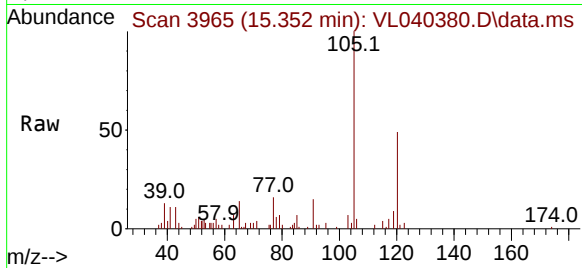
Tgt Ion: 95 Resp: 1967832
Ion Ratio Lower Upper
95 100
174 59.9 47.2 70.8
175 4.3 3.5 5.3





#73
1,3,5-Trimethylbenzene
Concen: 0.145 ppbv m
RT: 15.352 min Scan# 3914
Delta R.T. -0.010 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

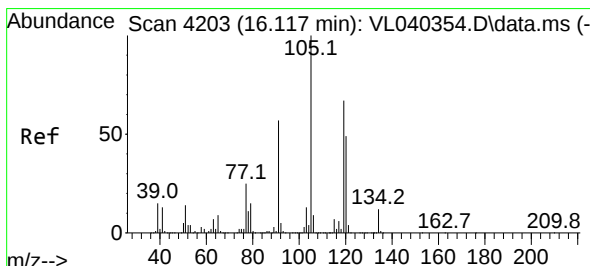
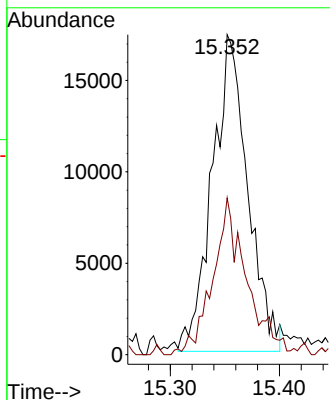
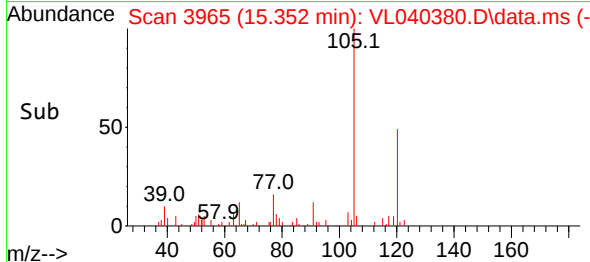
Instrument :
MSVOA_L
ClientSampleId :
AP04-A



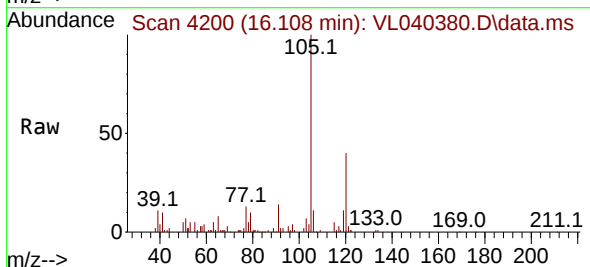
Tgt Ion:105 Resp: 3914
Ion Ratio Lower Upper
105 100
120 49.0 36.9 55.3

Manual Integrations
APPROVED

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



#74
1,2,4-Trimethylbenzene
Concen: 0.420 ppbv m
RT: 16.108 min Scan# 4200
Delta R.T. -0.009 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13



Tgt Ion:105 Resp: 129370
Ion Ratio Lower Upper
105 100
120 39.5 38.9 58.3
91 14.0 46.0 69.0#
77 13.2 20.0 30.0#

