

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040424\
 Data File : VL041132.D
 Acq On : 4 Apr 2024 19:30
 Operator : SY/MD
 Sample : P1953-05DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/05/2024
 Supervised By : Mahesh Dadoda 04/05/2024

Quant Time: Apr 05 05:11:59 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M

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

QLast Update : Fri Apr 05 04:49:46 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.211	49	1153305	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2896423	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.494	117	2768420	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.802	95	2188181	9.829	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.732	85	64248	0.326	ppbv	94
3) Chlorodifluoromethane	2.677	51	44263m	0.249	ppbv	
4) Chloromethane	2.819	50	40985	0.610	ppbv	96
9) Propene	2.697	41	471482	8.344	ppbv	91
10) Heptane	7.603	43	85526	0.637	ppbv	96
11) Trichlorofluoromethane	3.574	101	42917	0.240	ppbv	98
13) Ethanol	3.243	45	1165522	86.715	ppbv	97
15) Acetone	3.478	43	730565	5.850	ppbv #	63
19) Isopropyl Alcohol	3.587	45	407259	5.368	ppbv	99
20) Methylene Chloride	3.944	84	766052	14.873	ppbv	98
26) Hexane	5.230	57	530923	5.045	ppbv #	46
30) Cyclohexane	6.623	84	50149m	0.585	ppbv	
34) 2-Butanone	4.806	43	173509	1.416	ppbv	98
35) Carbon Tetrachloride	6.516	117	14871m	0.090	ppbv	
36) Benzene	6.391	78	578839	2.721	ppbv	98
44) 2,2,4-Trimethylpentane	7.352	57	1044869	2.967	ppbv	95
50) 4-Methyl-2-Pentanone	8.227	43	65907m	0.306	ppbv	
52) Tetrachloroethene	10.642	164	7293m	0.107	ppbv	
53) Toluene	9.246	91	2619365	11.696	ppbv	100
58) Ethyl Benzene	12.117	91	385913	1.273	ppbv	96
59) m/p-Xylene	12.371	91	1102256	4.027	ppbv	97
60) o-Xylene	13.089	91	376545	1.452	ppbv	99
61) Styrene	12.925	104	23330m	0.203	ppbv	
72) 4-Ethyltoluene	15.230	105	85406m	0.295	ppbv	
73) 1,3,5-Trimethylbenzene	15.378	105	51006m	0.200	ppbv	
74) 1,2,4-Trimethylbenzene	16.137	105	209204	0.716	ppbv #	67

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

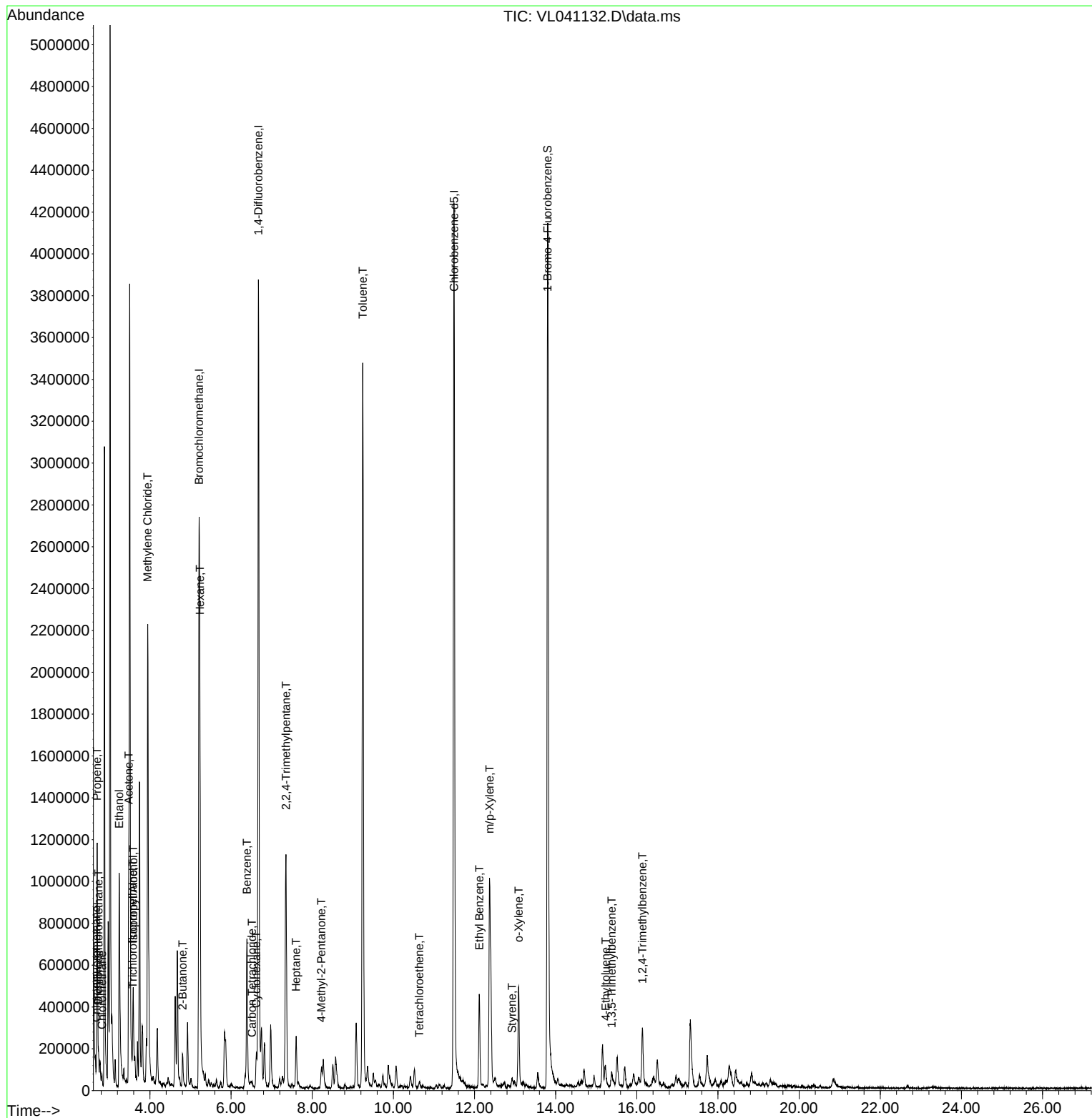
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040424\
Data File : VL041132.D
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Misc : 400mL/MSVOA_L
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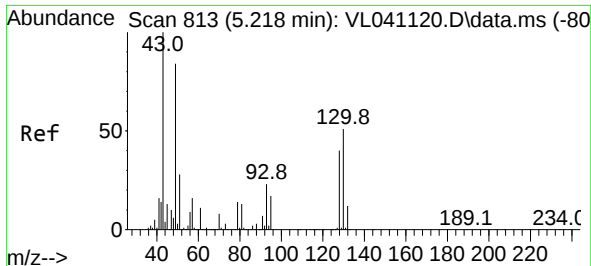
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Apr 05 05:11:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 05 04:49:46 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

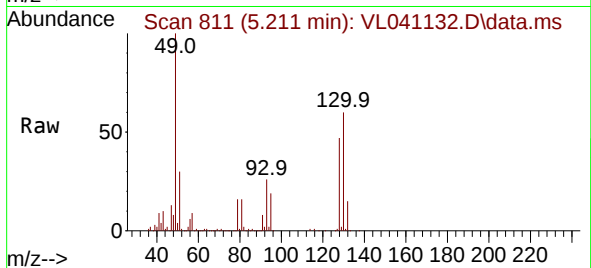
Reviewed By : Semsettin Yesilyurt 04/05/2024
Supervised By : Mahesh Dadoda 04/05/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. -0.007 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

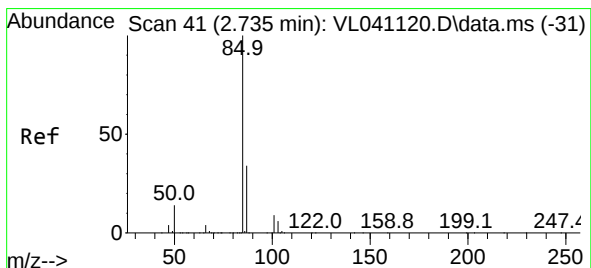
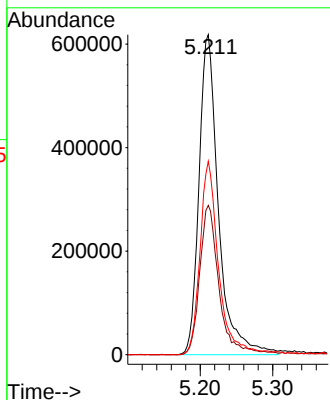
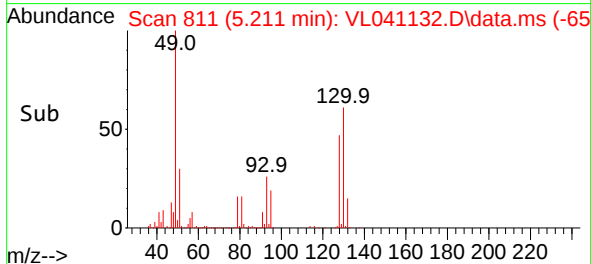
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 115330
Ion Ratio Lower Upper
49 100
128 47.3 23.6 71.0
130 59.1 30.1 90.5

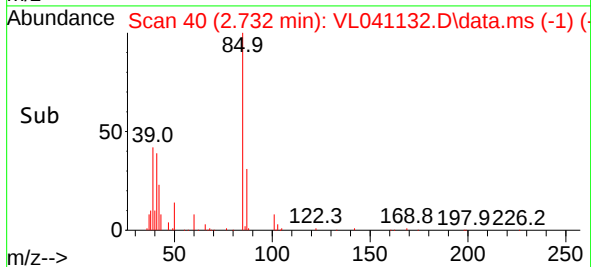
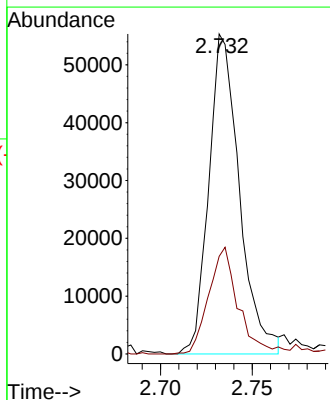
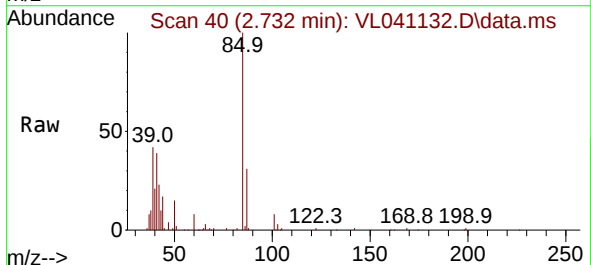
Manual Integrations
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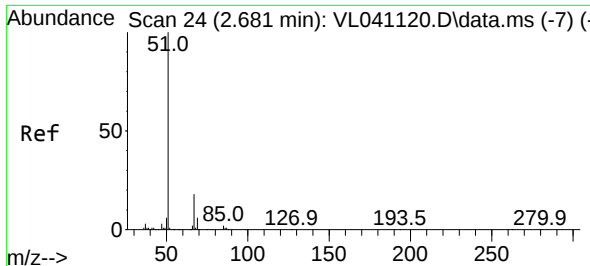
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024



#2
Dichlorodifluoromethane
Concen: 0.326 ppbv
RT: 2.732 min Scan# 40
Delta R.T. -0.003 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

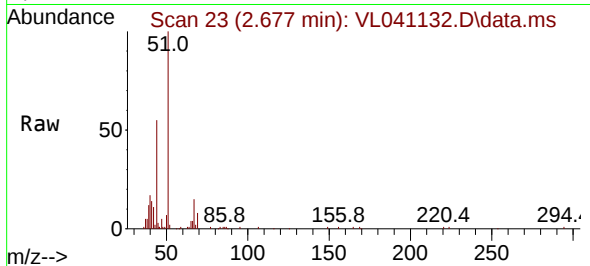
Tgt Ion: 85 Resp: 64248
Ion Ratio Lower Upper
85 100
87 30.2 27.0 40.6





#3
Chlorodifluoromethane
Concen: 0.249 ppbv
RT: 2.677 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

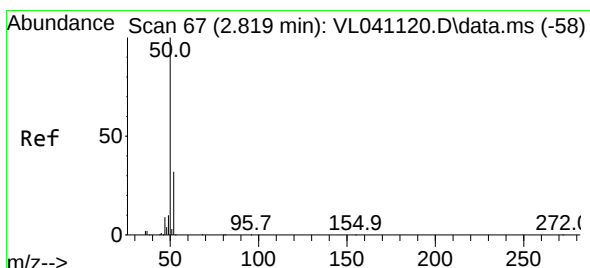
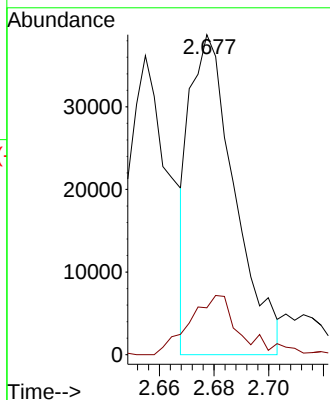
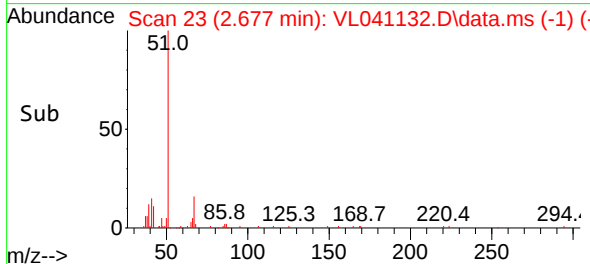
Instrument :
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ClientSampleId :
IA1DUP



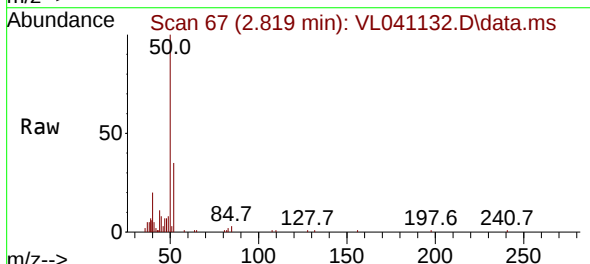
Tgt Ion: 51 Resp: 4426
Ion Ratio Lower Upper
51 100
67 22.9 14.9 22.3

Manual Integrations
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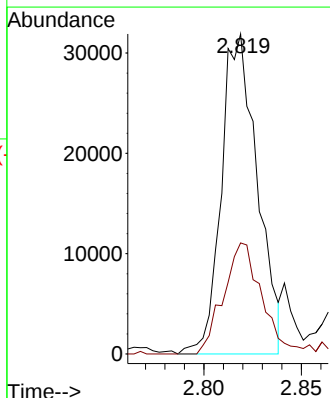
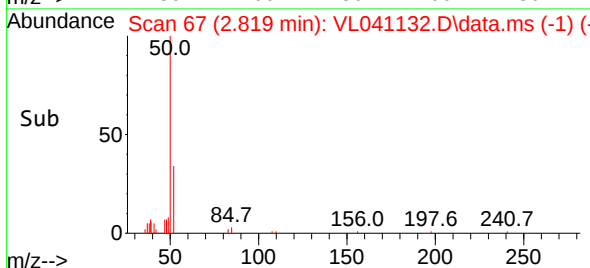
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024

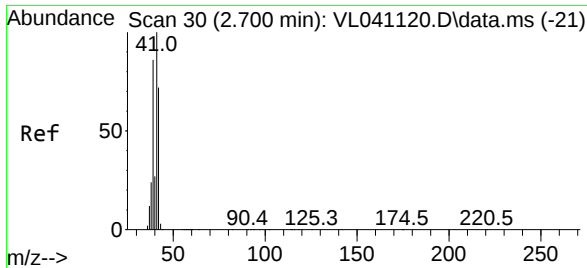


#4
Chloromethane
Concen: 0.610 ppbv
RT: 2.819 min Scan# 67
Delta R.T. -0.000 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30



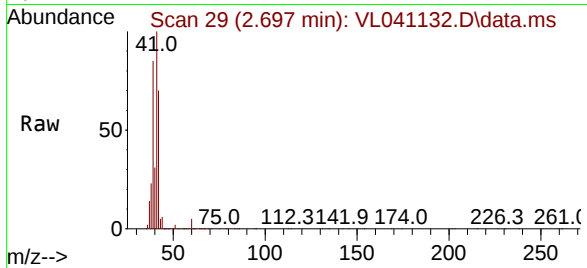
Tgt Ion: 50 Resp: 40985
Ion Ratio Lower Upper
50 100
52 34.7 26.0 39.0





#9
 Propene
 Concen: 8.344 ppbv
 RT: 2.697 min Scan# 29
 Delta R.T. -0.003 min
 Lab File: VL041132.D
 Acq: 4 Apr 2024 19:30

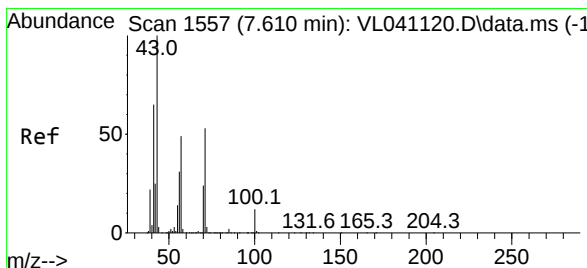
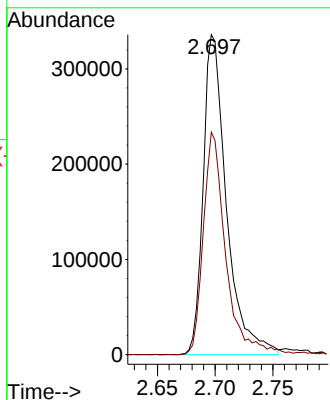
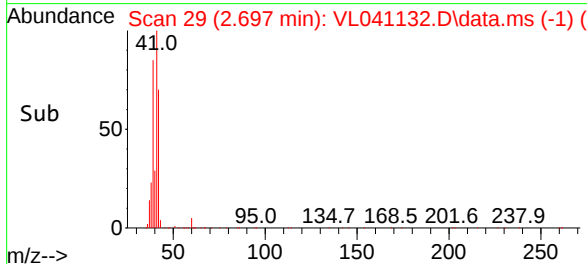
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



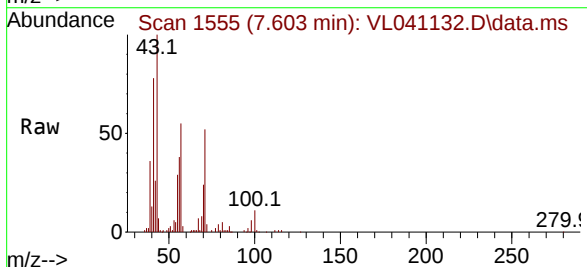
Tgt Ion: 41 Resp: 47148
 Ion Ratio Lower Upper
 41 100
 42 67.8 60.1 90.1

Manual Integrations
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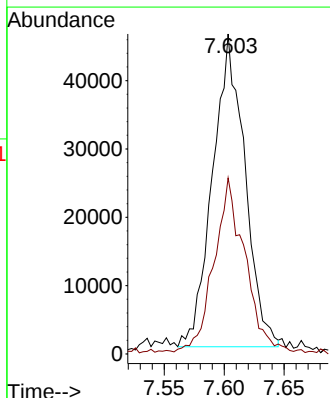
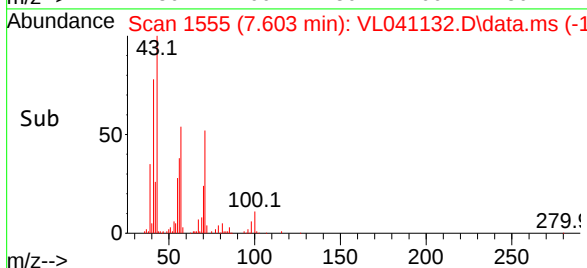
Reviewed By :Semsettin Yesilyurt 04/05/2024
 Supervised By :Mahesh Dadoda 04/05/2024

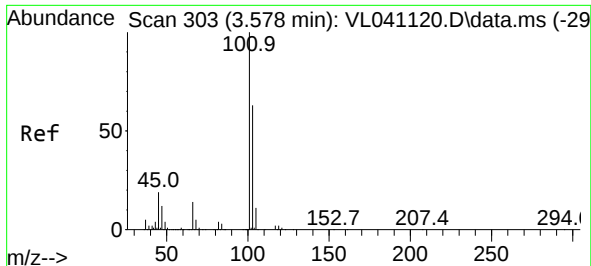


#10
 Heptane
 Concen: 0.637 ppbv
 RT: 7.603 min Scan# 1555
 Delta R.T. -0.007 min
 Lab File: VL041132.D
 Acq: 4 Apr 2024 19:30



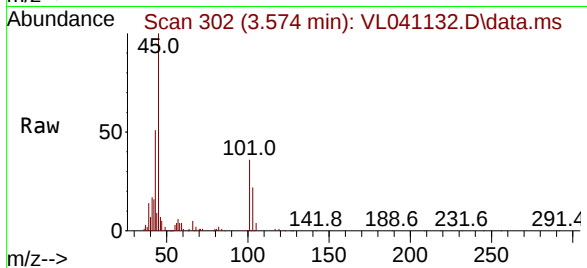
Tgt Ion: 43 Resp: 85526
 Ion Ratio Lower Upper
 43 100
 57 52.6 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.240 ppbv
RT: 3.574 min Scan# 303
Delta R.T. -0.003 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

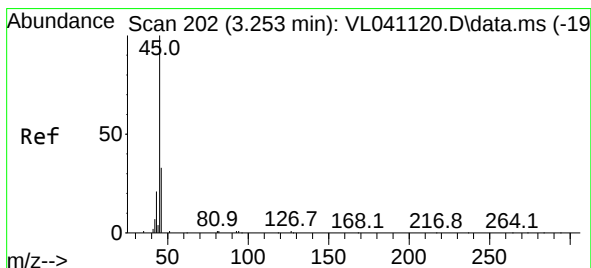
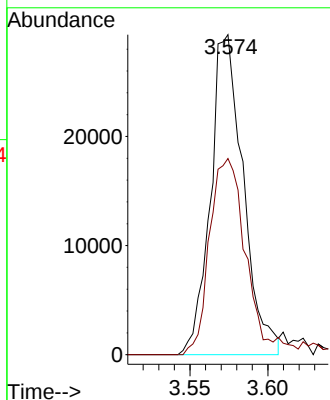
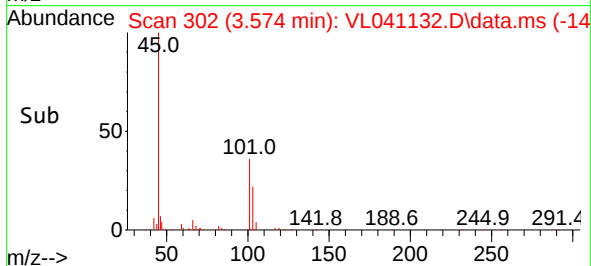
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:101 Resp: 42917
Ion Ratio Lower Upper
101 100
103 61.3 50.6 75.8

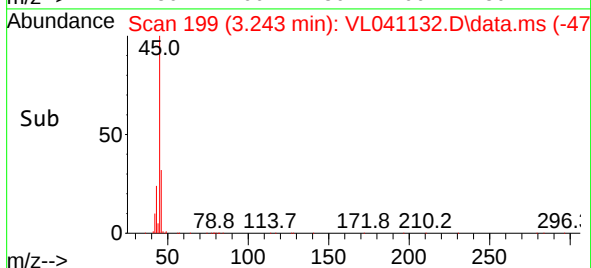
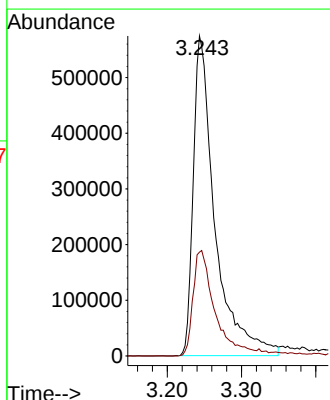
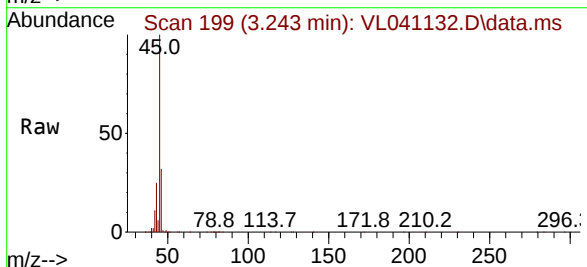
Manual Integrations
APPROVED

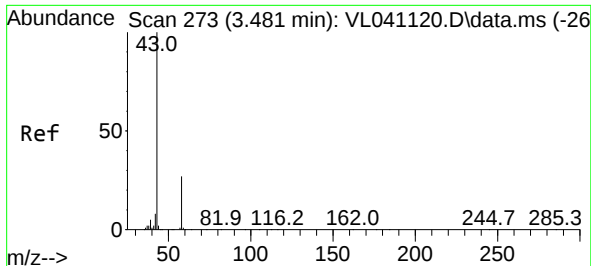
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024



#13
Ethanol
Concen: 86.715 ppbv
RT: 3.243 min Scan# 199
Delta R.T. -0.010 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

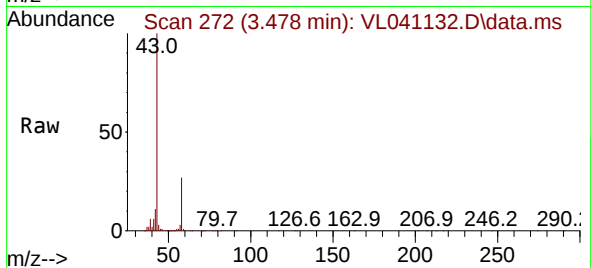
Tgt Ion: 45 Resp: 1165522
Ion Ratio Lower Upper
45 100
46 35.8 15.0 59.8





#15
Acetone
Concen: 5.850 ppbv
RT: 3.478 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

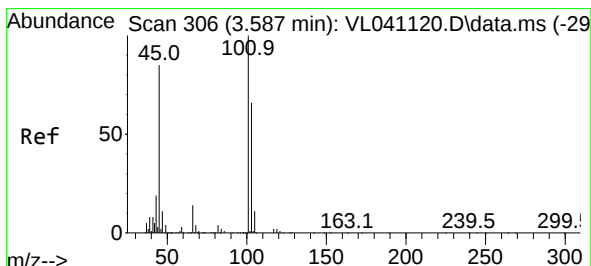
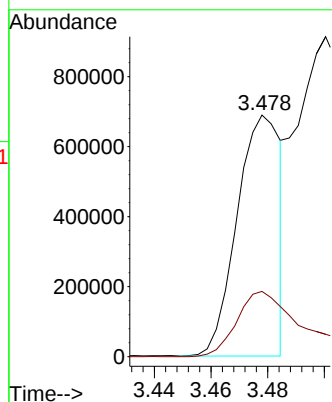
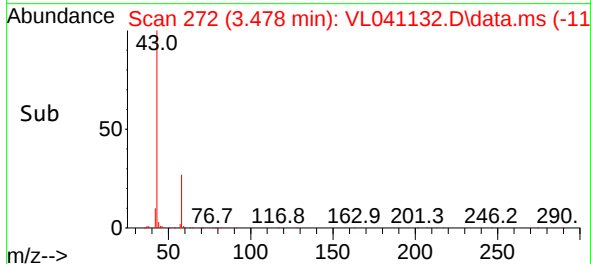
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 73056
Ion Ratio Lower Upper
43 100
58 45.6 21.1 31.7

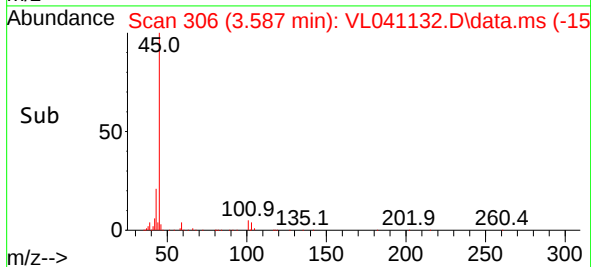
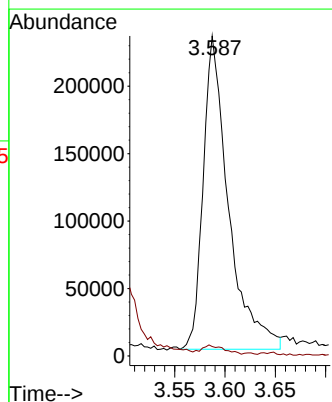
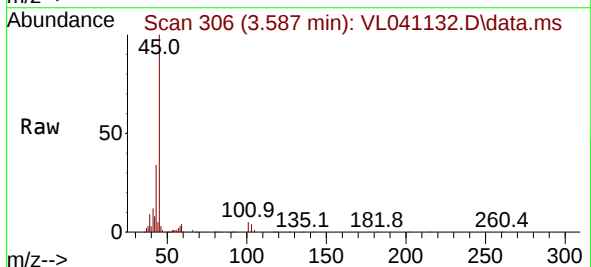
Manual Integrations
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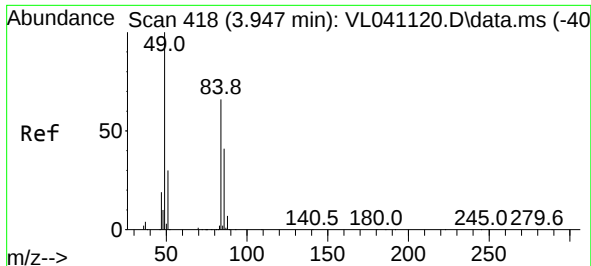
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024



#19
Isopropyl Alcohol
Concen: 5.368 ppbv
RT: 3.587 min Scan# 306
Delta R.T. -0.000 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

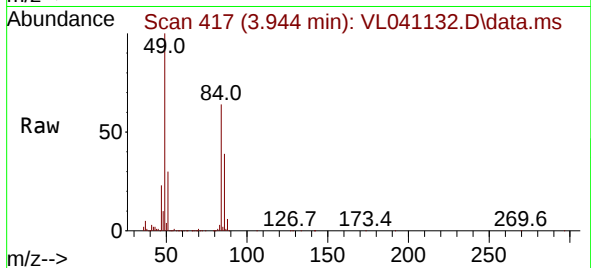
Tgt Ion: 45 Resp: 407259
Ion Ratio Lower Upper
45 100
58 3.8 2.8 4.2





#20
Methylene Chloride
Concen: 14.873 ppbv
RT: 3.944 min Scan# 418
Delta R.T. -0.003 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

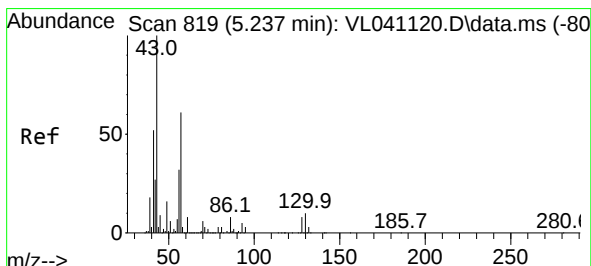
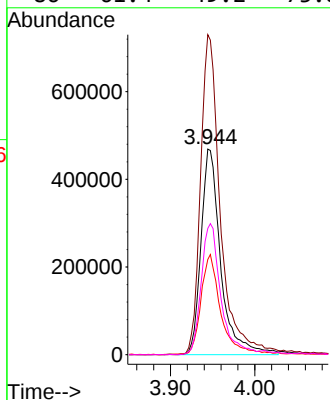
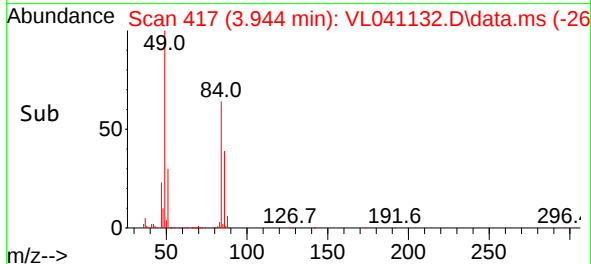
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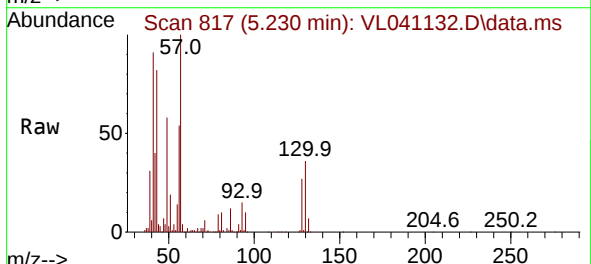
Tgt Ion: 84 Resp: 766052
Ion Ratio Lower Upper
84 100
49 155.6 120.7 181.1
51 46.0 36.6 54.8
86 61.4 49.2 73.8

Manual Integrations
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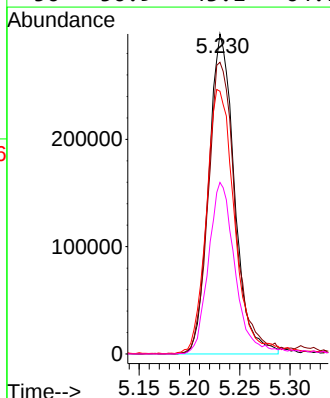
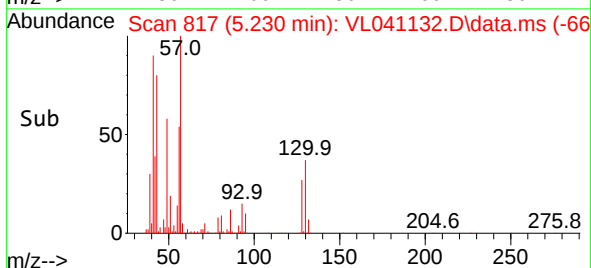
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024

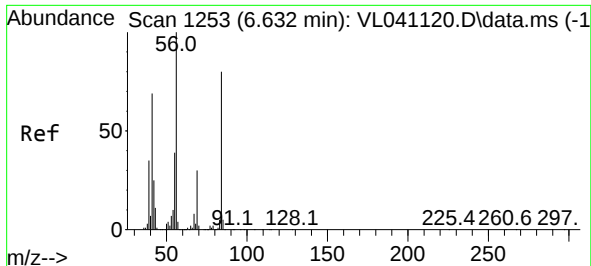


#26
Hexane
Concen: 5.045 ppbv
RT: 5.230 min Scan# 817
Delta R.T. -0.007 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30



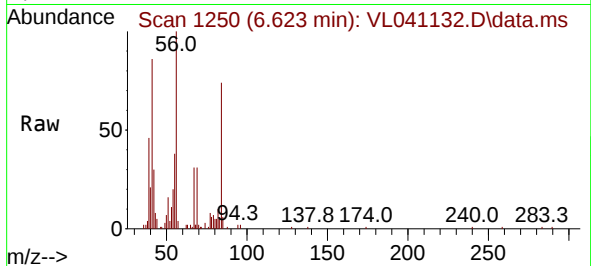
Tgt Ion: 57 Resp: 530923
Ion Ratio Lower Upper
57 100
41 98.5 73.8 110.8
43 91.9 186.2 279.2#
56 56.9 43.1 64.7





#30
Cyclohexane
Concen: 0.585 ppbv m
RT: 6.623 min Scan# 1253
Delta R.T. -0.010 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

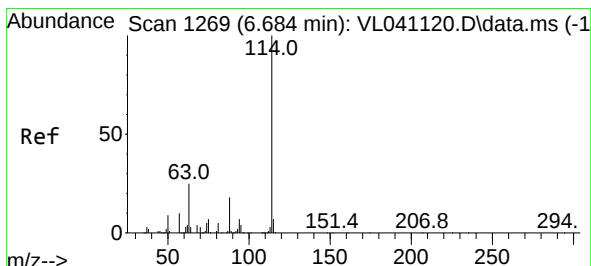
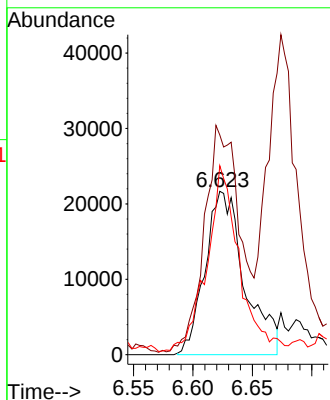
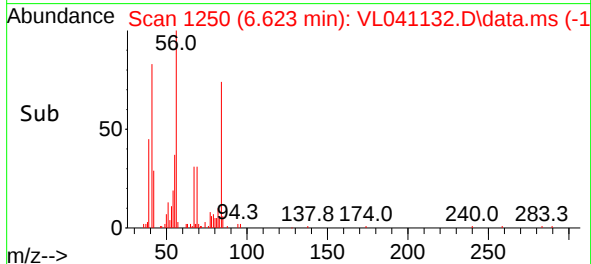
Instrument :
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Tgt Ion: 84 Resp: 50149
Ion Ratio Lower Upper
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41 98.7 71.0 106.6

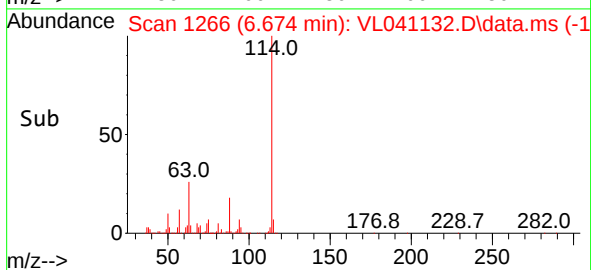
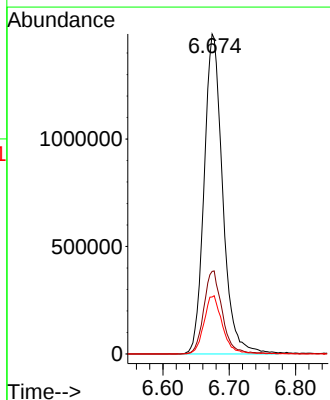
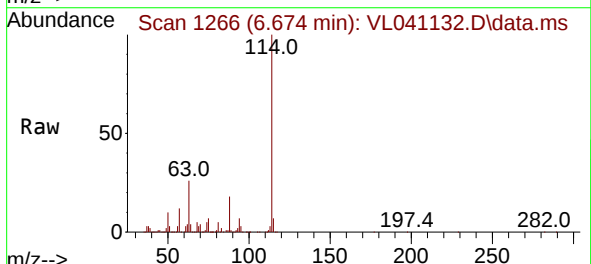
Manual Integrations
APPROVED

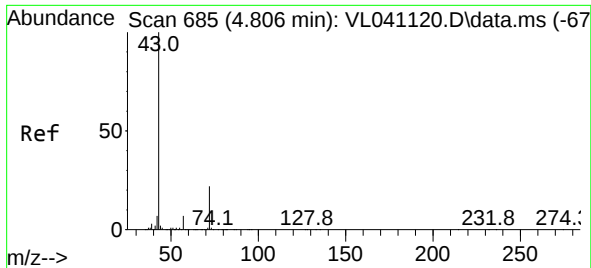
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.674 min Scan# 1266
Delta R.T. -0.010 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

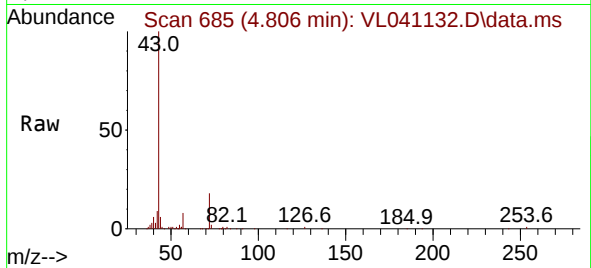
Tgt Ion:114 Resp: 2896423
Ion Ratio Lower Upper
114 100
63 26.0 20.9 31.3
88 18.2 14.5 21.7





#34
2-Butanone
Concen: 1.416 ppbv
RT: 4.806 min Scan# 685
Delta R.T. -0.000 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

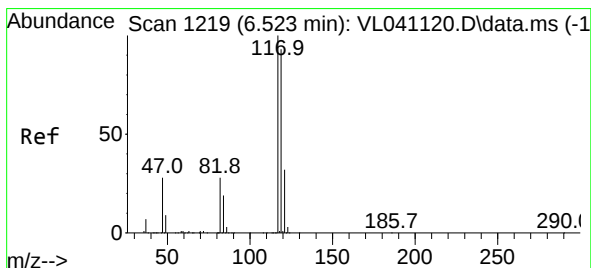
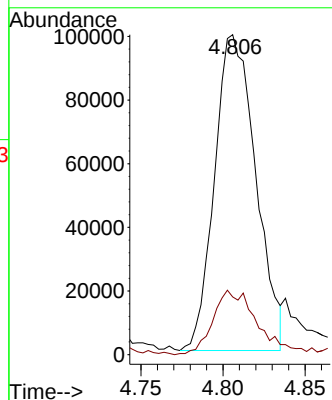
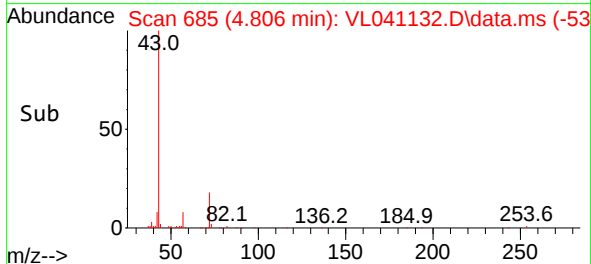
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



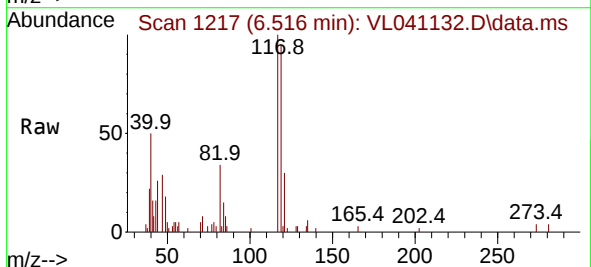
Tgt Ion: 43 Resp: 173509
Ion Ratio Lower Upper
43 100
72 23.0 17.6 26.4

Manual Integrations
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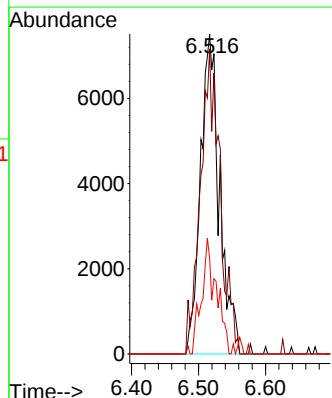
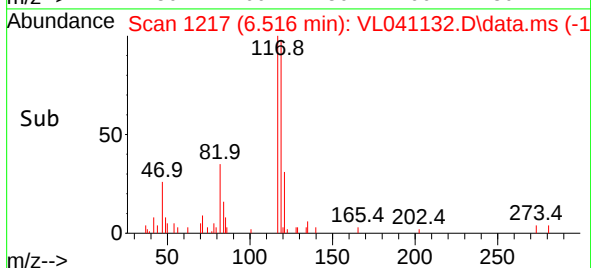
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024

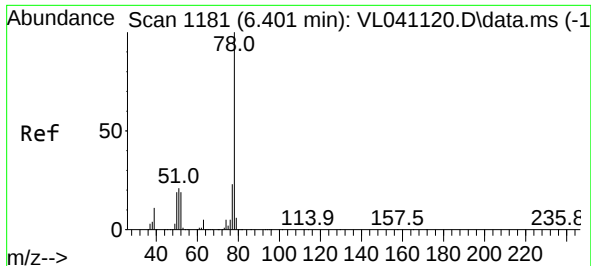


#35
Carbon Tetrachloride
Concen: 0.090 ppbv m
RT: 6.516 min Scan# 1217
Delta R.T. -0.007 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30



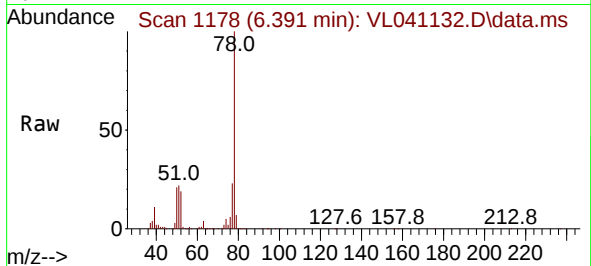
Tgt Ion:117 Resp: 14871
Ion Ratio Lower Upper
117 100
119 95.4 74.2 111.4
121 29.9 25.4 38.2





#36
Benzene
Concen: 2.721 ppbv
RT: 6.391 min Scan# 1181
Delta R.T. -0.010 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

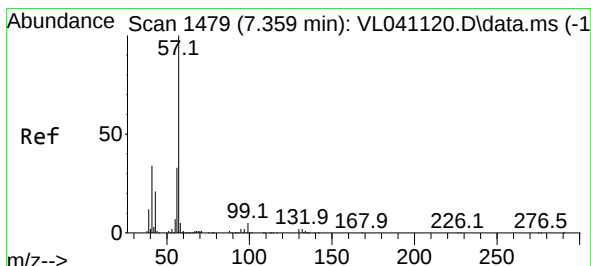
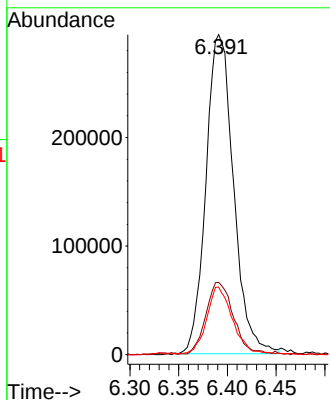
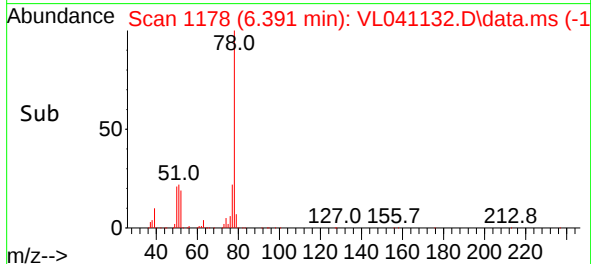
Instrument : MSVOA_L
ClientSampleId : IA1DUP



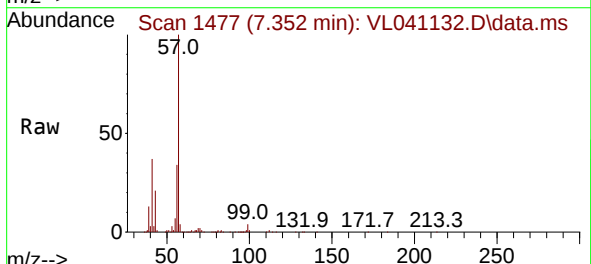
Tgt Ion: 78 Resp: 578839
Ion Ratio Lower Upper
78 100
77 22.5 18.2 27.4
50 20.8 15.4 23.2

Manual Integrations
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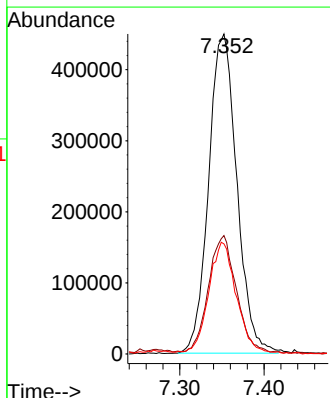
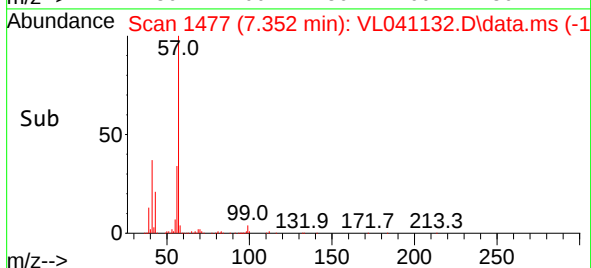
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024

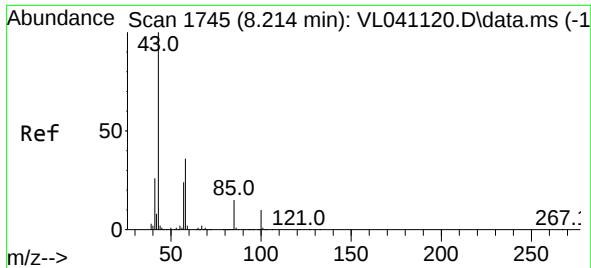


#44
2,2,4-Trimethylpentane
Concen: 2.967 ppbv
RT: 7.352 min Scan# 1477
Delta R.T. -0.007 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30



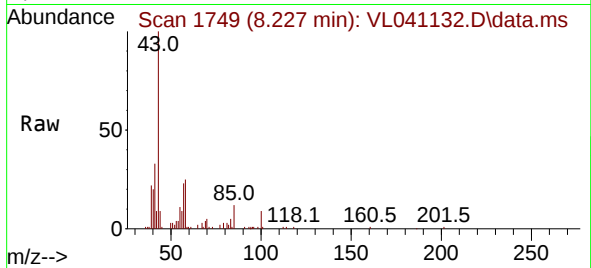
Tgt Ion: 57 Resp: 1044869
Ion Ratio Lower Upper
57 100
41 37.8 28.2 42.2
56 35.0 25.2 37.8





#50
4-Methyl-2-Pentanone
Concen: 0.306 ppbv m
RT: 8.227 min Scan# 1749
Delta R.T. 0.013 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

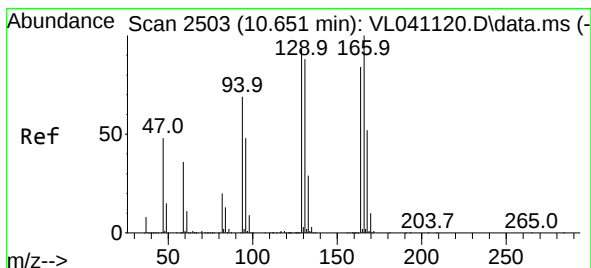
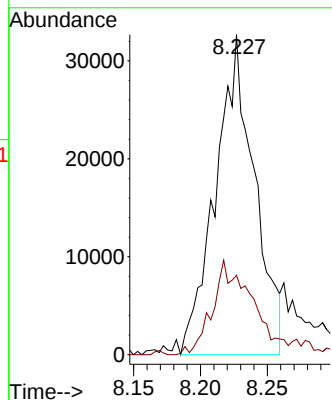
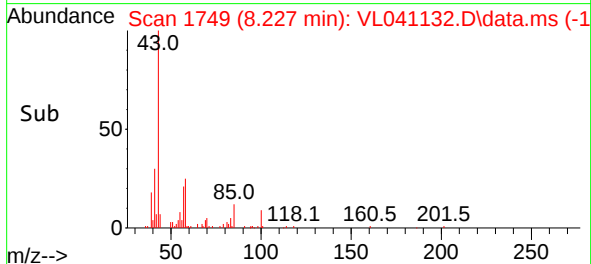
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



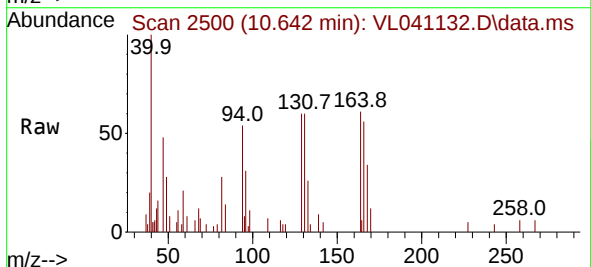
Tgt Ion: 43 Resp: 6590
Ion Ratio Lower Upper
43 100
58 32.7 27.7 41.5

Manual Integrations
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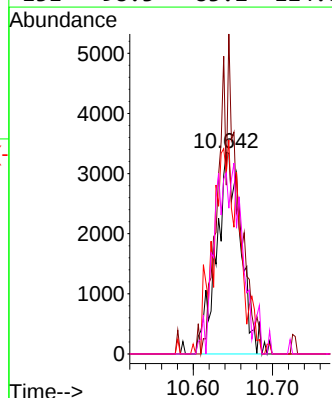
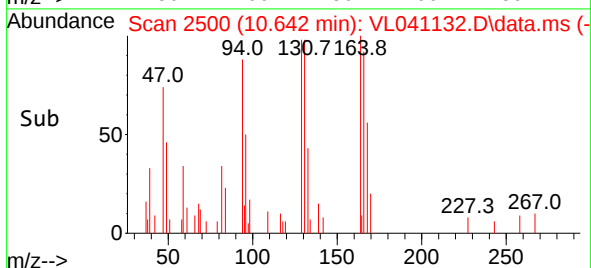
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024

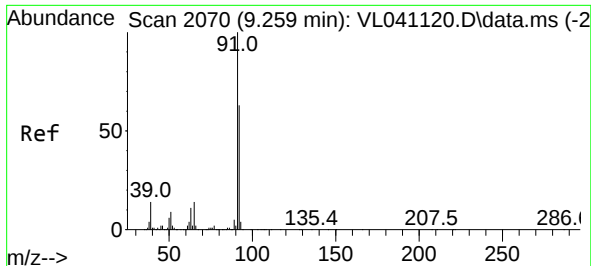


#52
Tetrachloroethene
Concen: 0.107 ppbv m
RT: 10.642 min Scan# 2500
Delta R.T. -0.010 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30



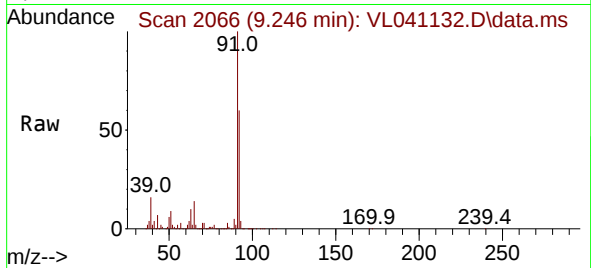
Tgt Ion:164 Resp: 7293
Ion Ratio Lower Upper
164 100
166 91.7 95.0 142.6#
129 98.2 88.7 133.1
131 98.3 83.2 124.8





#53
Toluene
Concen: 11.696 ppbv
RT: 9.246 min Scan# 2070
Delta R.T. -0.013 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

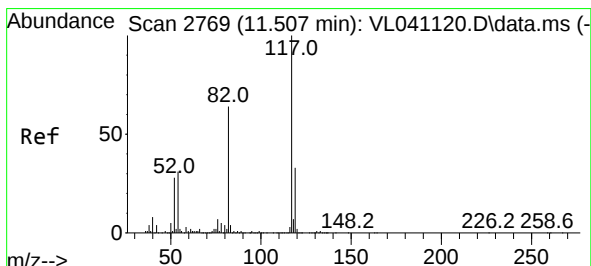
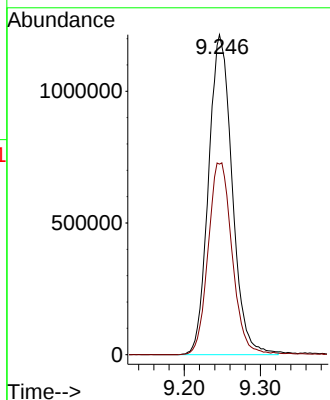
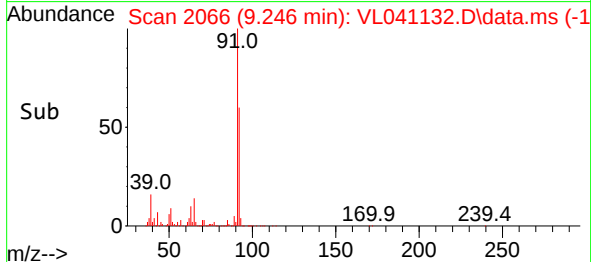
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 91 Resp: 261936
Ion Ratio Lower Upper
91 100
92 61.5 49.0 73.4

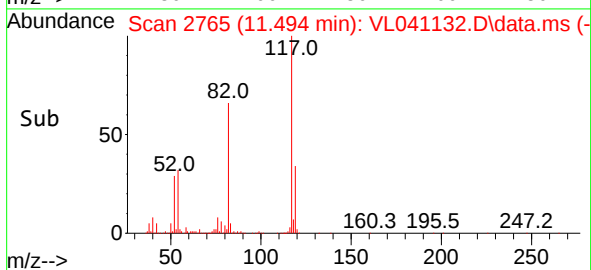
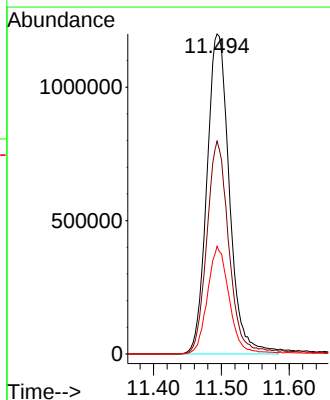
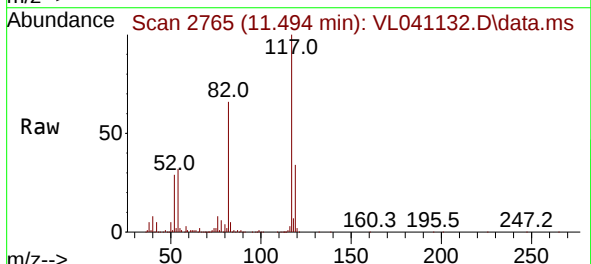
Manual Integrations
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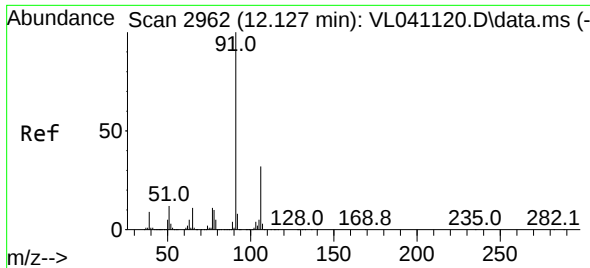
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.494 min Scan# 2765
Delta R.T. -0.013 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

Tgt Ion:117 Resp: 2768420
Ion Ratio Lower Upper
117 100
82 66.1 51.0 76.6
119 33.2 25.2 37.8





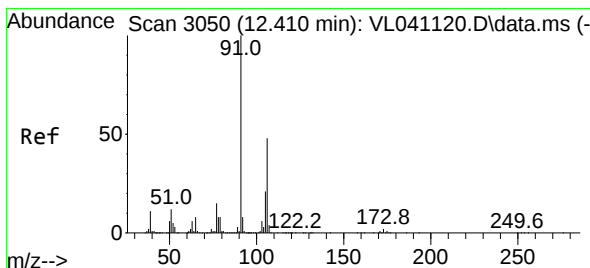
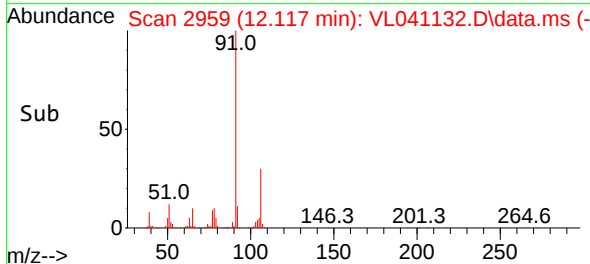
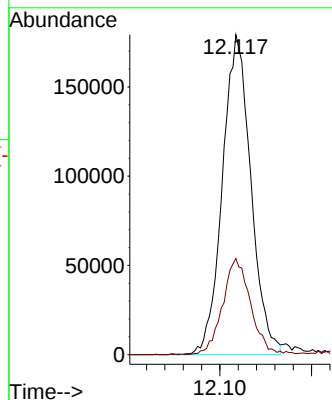
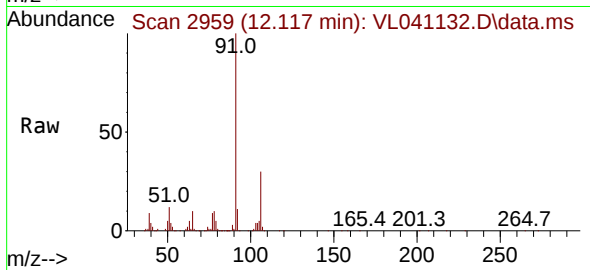
#58
Ethyl Benzene
Concen: 1.273 ppbv
RT: 12.117 min Scan# 2962
Delta R.T. -0.010 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 38591
Ion Ratio Lower Upper
91 100
106 29.9 25.6 38.4

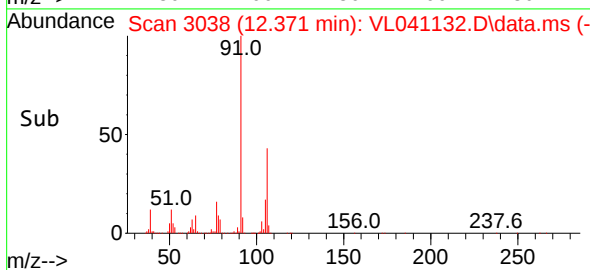
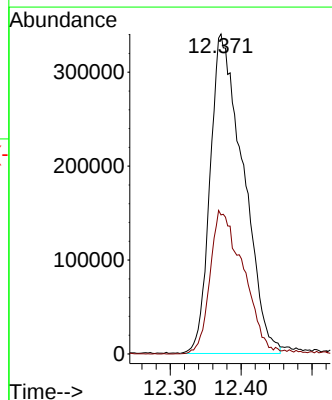
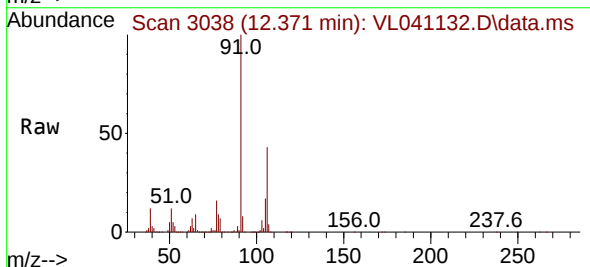
Manual Integrations
APPROVED

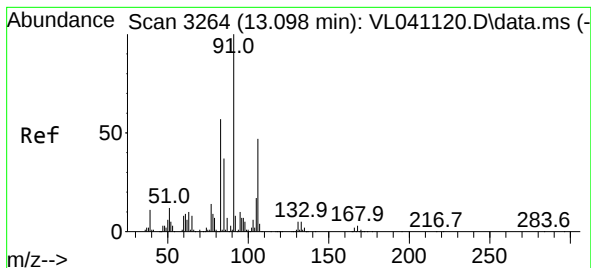
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024



#59
m/p-Xylene
Concen: 4.027 ppbv
RT: 12.371 min Scan# 3038
Delta R.T. -0.039 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

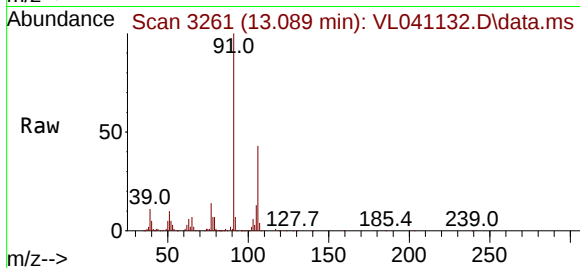
Tgt Ion: 91 Resp: 1102256
Ion Ratio Lower Upper
91 100
106 45.9 35.4 53.2





#60
o-Xylene
Concen: 1.452 ppbv
RT: 13.089 min Scan# 31
Delta R.T. -0.010 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

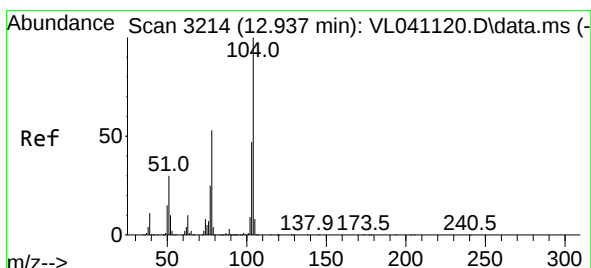
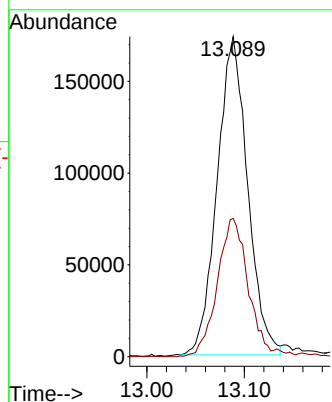
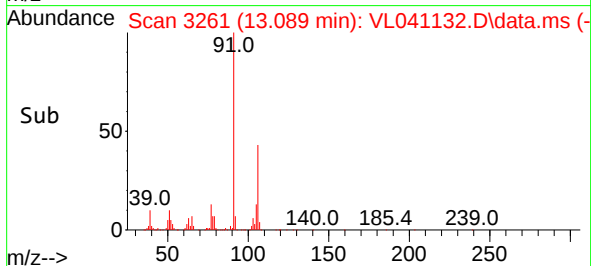
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



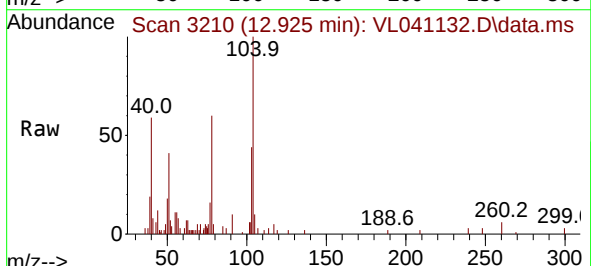
Tgt Ion: 91 Resp: 37654
Ion Ratio Lower Upper
91 100
106 45.3 22.9 68.5

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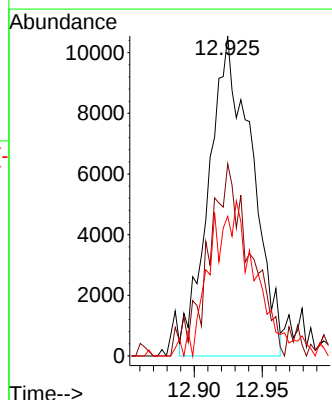
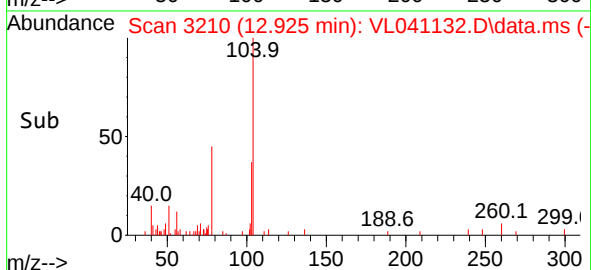
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024

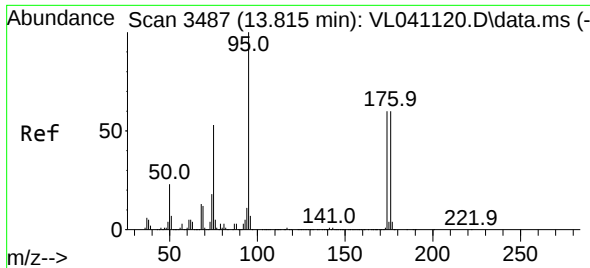


#61
Styrene
Concen: 0.203 ppbv m
RT: 12.925 min Scan# 3210
Delta R.T. -0.013 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30



Tgt Ion:104 Resp: 23330
Ion Ratio Lower Upper
104 100
78 61.8 43.3 64.9
103 0.0 38.2 57.2#





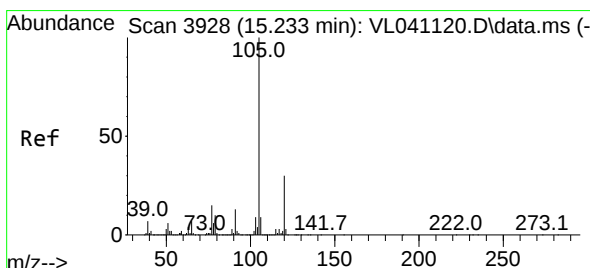
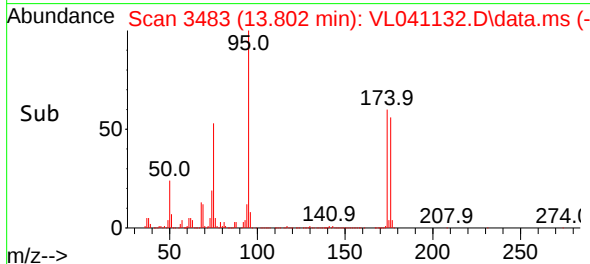
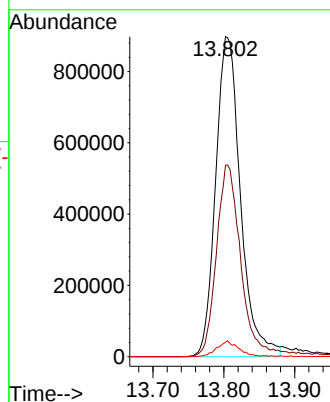
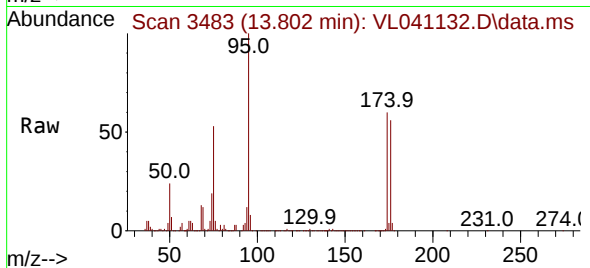
#68
1-Bromo-4-Fluorobenzene
Concen: 9.829 ppbv
RT: 13.802 min Scan# 3483
Delta R.T. -0.013 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 95 Resp: 218818
Ion Ratio Lower Upper
95 100
174 60.5 49.3 73.9
175 4.5 3.6 5.4

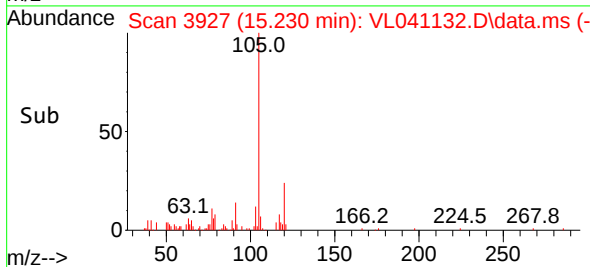
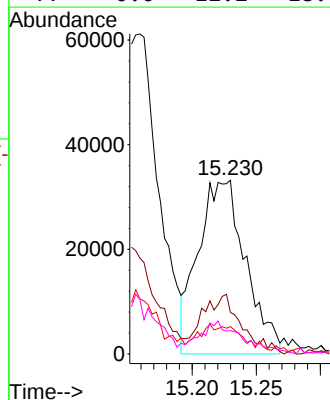
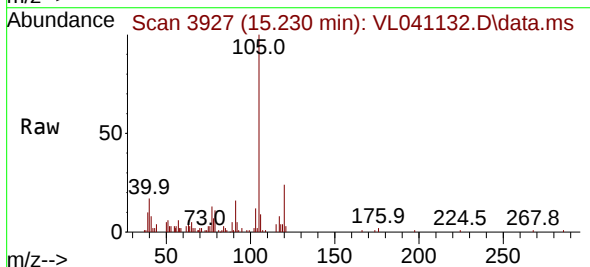
Manual Integrations
APPROVED

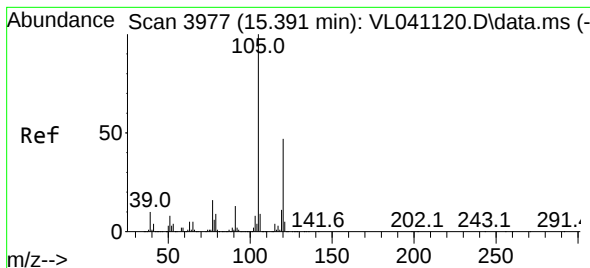
Reviewed By :Semsettin Yesilyurt 04/05/2024
Supervised By :Mahesh Dadoda 04/05/2024



#72
4-Ethyltoluene
Concen: 0.295 ppbv m
RT: 15.230 min Scan# 3927
Delta R.T. -0.003 min
Lab File: VL041132.D
Acq: 4 Apr 2024 19:30

Tgt Ion:105 Resp: 85406
Ion Ratio Lower Upper
105 100
120 0.0 24.2 36.2#
91 16.1 11.2 16.8
77 0.0 12.2 18.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.200 ppbv m

RT: 15.378 min Scan# 3977

Delta R.T. -0.013 min

Lab File: VL041132.D

Acq: 4 Apr 2024 19:30

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:105 Resp: 51000

Ion Ratio Lower Upper

105 100

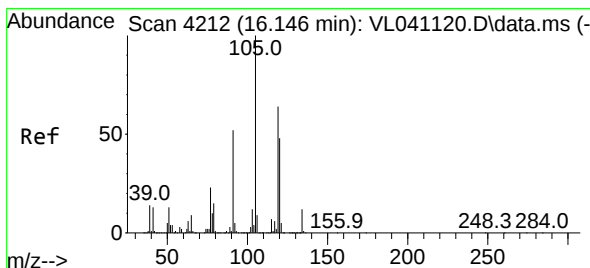
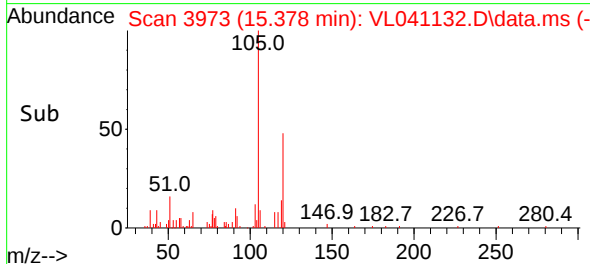
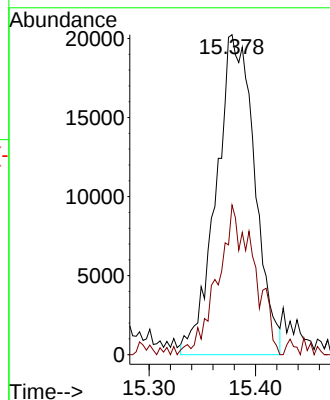
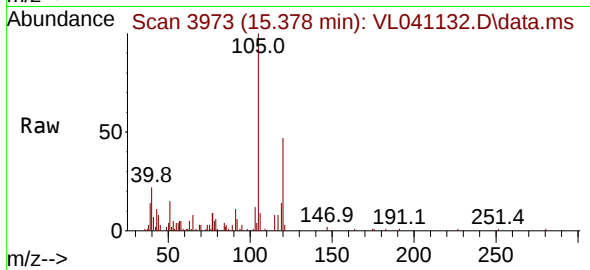
120 46.7 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/05/2024

Supervised By :Mahesh Dadoda 04/05/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.716 ppbv

RT: 16.137 min Scan# 4209

Delta R.T. -0.010 min

Lab File: VL041132.D

Acq: 4 Apr 2024 19:30

Tgt Ion:105 Resp: 209204

Ion Ratio Lower Upper

105 100

120 37.7 38.9 58.3#

91 13.6 43.0 64.6#

77 16.4 18.6 28.0#

