

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040820.D
 Acq On : 8 Nov 2023 21:13
 Operator : SY/MD
 Sample : 05276-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SH-IA-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/11/2023
 Supervised By :Mahesh Dadoda 11/13/2023

Quant Time: Nov 09 00:33:35 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

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

QLast Update : Thu Nov 09 00:25:02 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	980686	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2524695	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2157800	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1566102	9.864	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.771	85	107600	0.623	ppbv	100
3) Chlorodifluoromethane	2.716	51	52226m	0.362	ppbv	
4) Chloromethane	2.857	50	52842	0.929	ppbv	93
9) Propene	2.745	41	84714m	1.582	ppbv	
10) Heptane	7.587	43	14690m	0.109	ppbv	
11) Trichlorofluoromethane	3.597	101	35978	0.270	ppbv #	81
13) Ethanol	3.279	45	86738m	7.178	ppbv	
15) Acetone	3.507	43	259565m	2.560	ppbv	
19) Isopropyl Alcohol	3.626	45	45482m	0.697	ppbv	
20) Methylene Chloride	3.960	84	1223565	28.974	ppbv	99
26) Hexane	5.230	57	1785652	17.589	ppbv #	41
30) Cyclohexane	6.622	84	9993m	0.116	ppbv	
34) 2-Butanone	4.819	43	23904	0.209	ppbv	93
35) Carbon Tetrachloride	6.510	117	10049m	0.071	ppbv	
36) Benzene	6.378	78	74747	0.385	ppbv #	95
44) 2,2,4-Trimethylpentane	7.330	57	517134m	1.575	ppbv	
52) Tetrachloroethene	10.613	164	2761m	0.035	ppbv	
53) Toluene	9.217	91	619152	2.679	ppbv	99
58) Ethyl Benzene	12.082	91	30020m	0.110	ppbv	
59) m/p-Xylene	12.342	91	69549m	0.311	ppbv	
60) o-Xylene	13.050	91	39074m	0.183	ppbv	
64) n-propylbenzene	14.918	120	10106m	0.115	ppbv	
72) 4-Ethyltoluene	15.182	105	63229m	0.253	ppbv	
73) 1,3,5-Trimethylbenzene	15.352	105	50291m	0.229	ppbv	
74) 1,2,4-Trimethylbenzene	16.101	105	187398	0.781	ppbv #	68

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

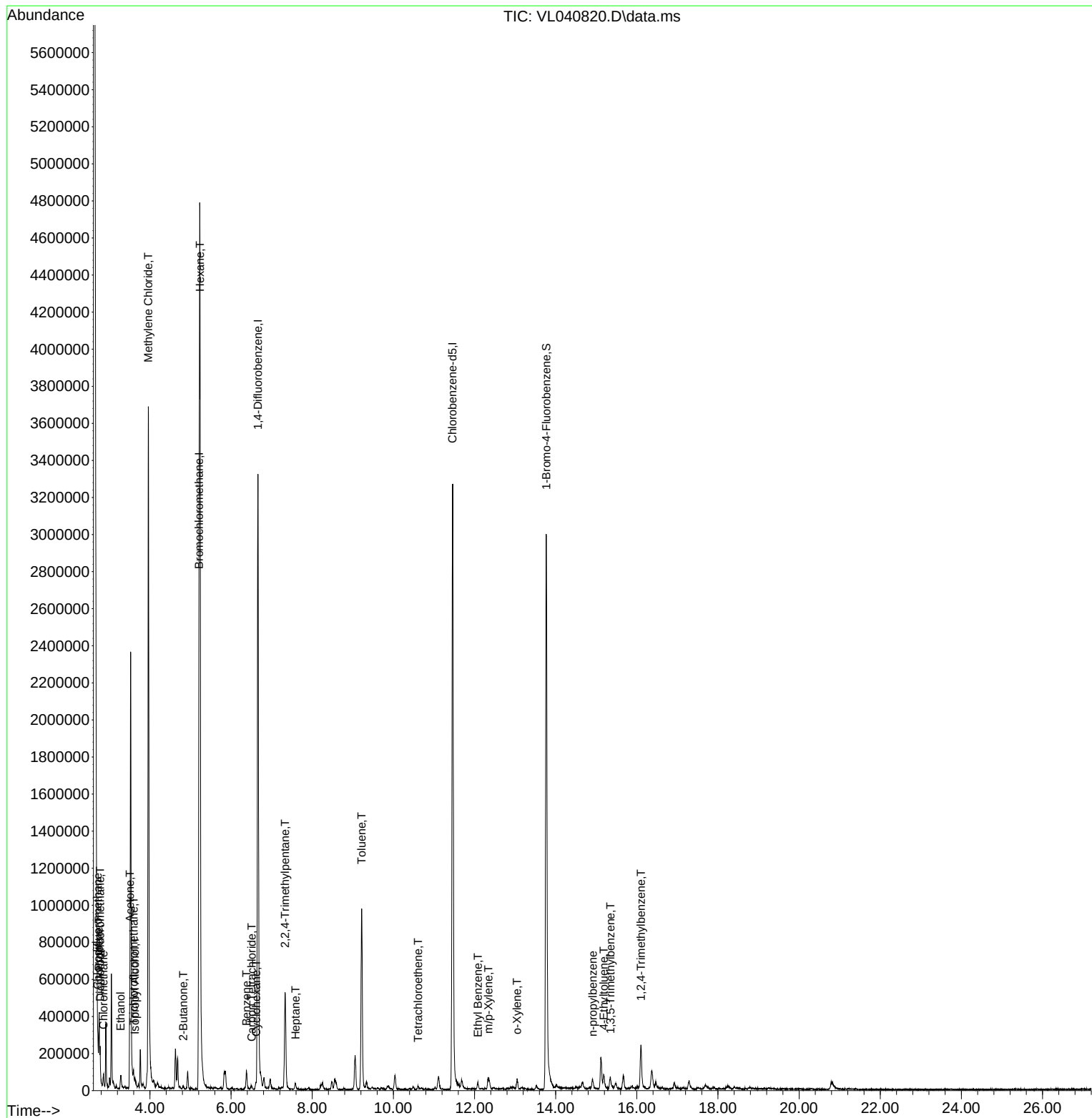
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
Data File : VL040820.D
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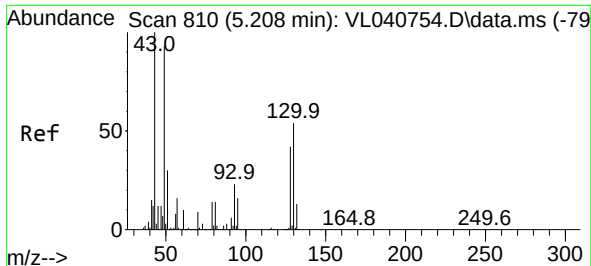
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2

Quant Time: Nov 09 00:33:35 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Nov 09 00:25:02 2023
Response via : Initial Calibration

Manual Integrations
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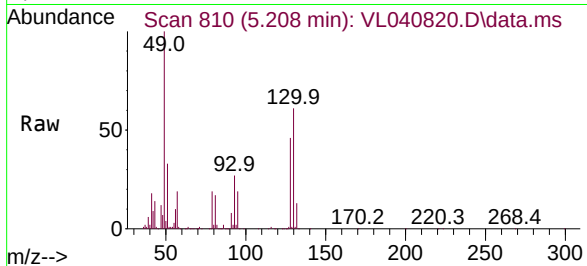
Reviewed By : Semsettin Yesilyurt 11/11/2023
Supervised By : Mahesh Dadoda 11/13/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.000 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

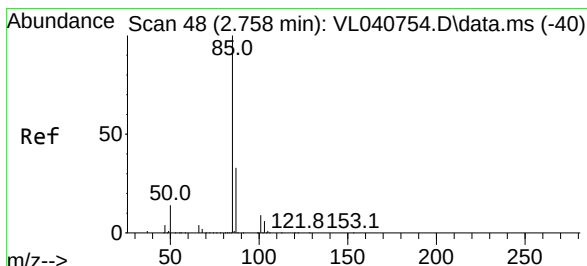
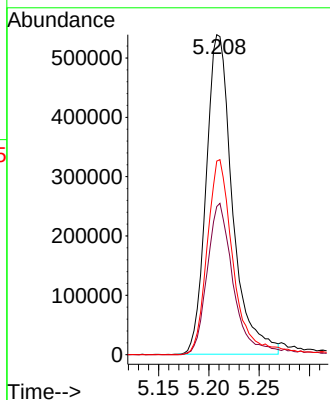
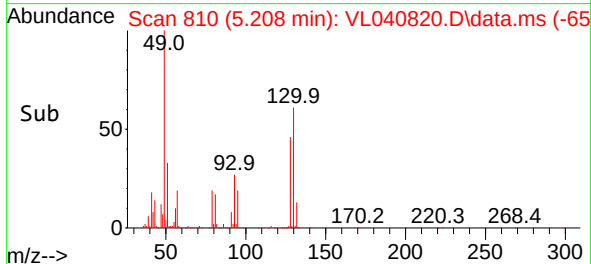
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2



Tgt Ion: 49 Resp: 980680
Ion Ratio Lower Upper
49 100
128 48.6 23.9 71.7
130 62.0 30.7 92.1

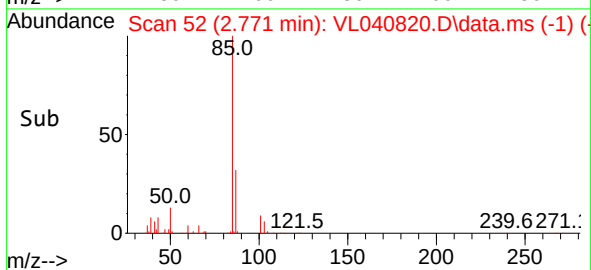
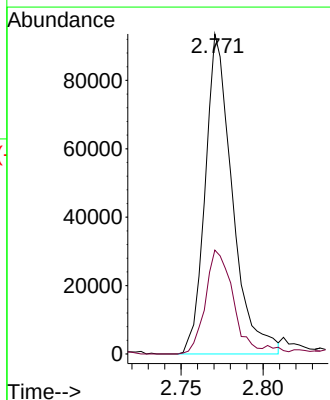
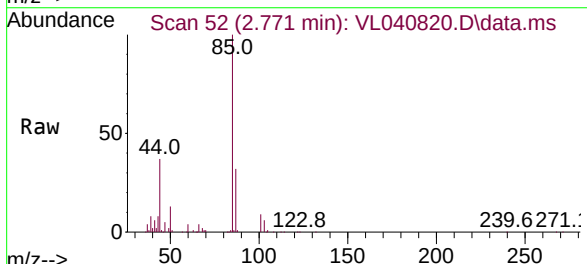
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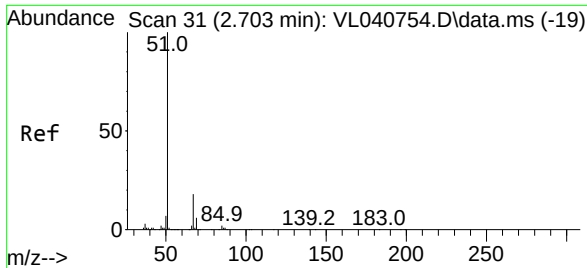
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#2
Dichlorodifluoromethane
Concen: 0.623 ppbv
RT: 2.771 min Scan# 52
Delta R.T. 0.000 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 85 Resp: 107600
Ion Ratio Lower Upper
85 100
87 32.5 26.0 39.0





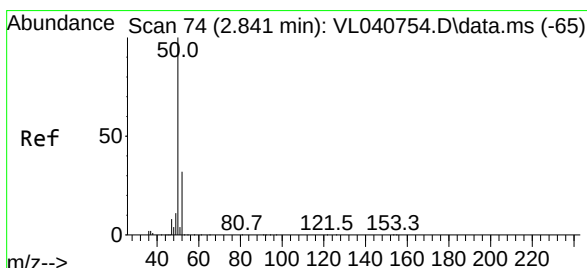
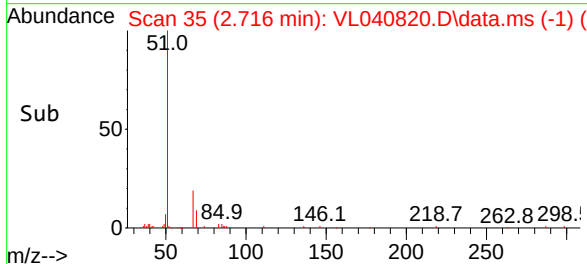
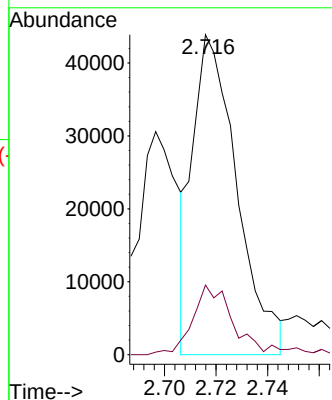
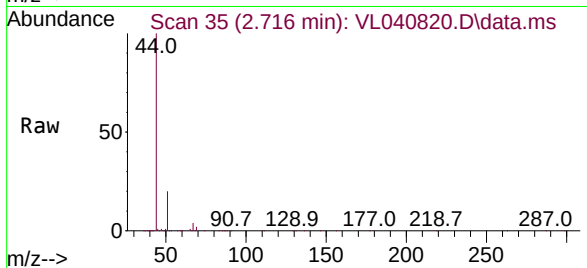
#3
Chlorodifluoromethane
Concen: 0.362 ppbv m
RT: 2.716 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2

Tgt Ion: 51 Resp: 52220
Ion Ratio Lower Upper
51 100
67 21.8 13.8 20.6

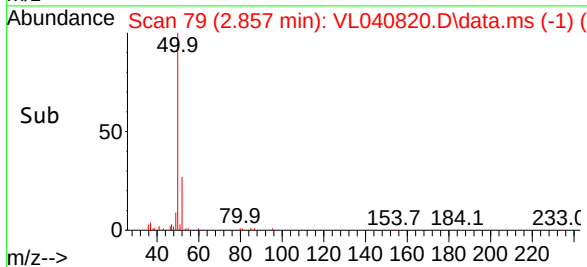
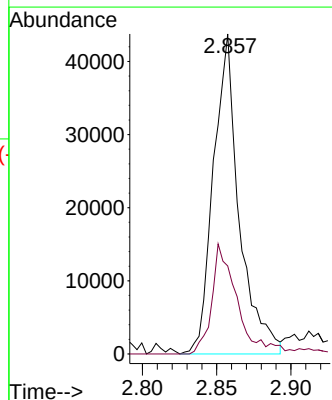
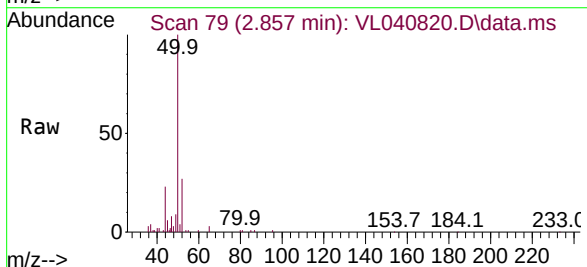
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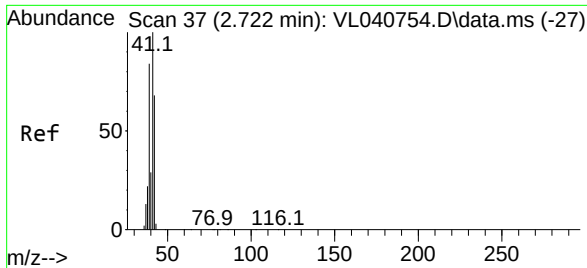
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#4
Chloromethane
Concen: 0.929 ppbv
RT: 2.857 min Scan# 79
Delta R.T. 0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 50 Resp: 52842
Ion Ratio Lower Upper
50 100
52 27.5 25.3 37.9





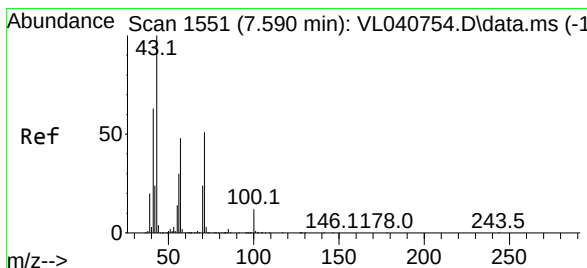
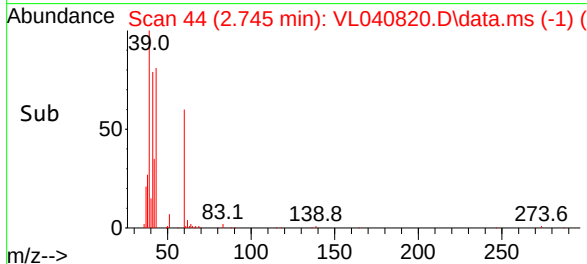
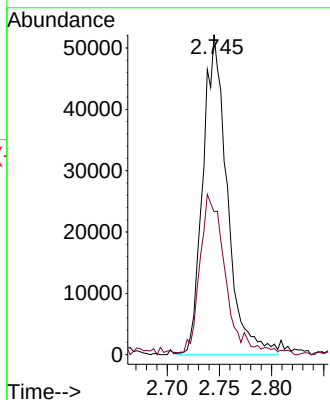
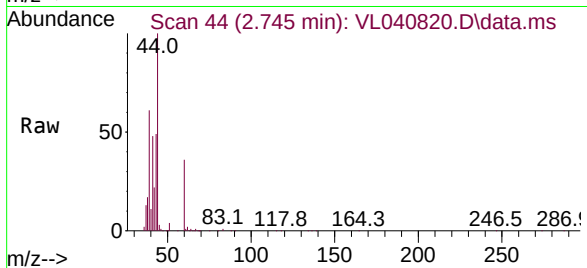
#9
Propene
Concen: 1.582 ppbv m
RT: 2.745 min Scan# 44
Delta R.T. 0.010 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2

Tgt Ion: 41 Resp: 84714
Ion Ratio Lower Upper
41 100
42 73.7 57.1 85.7

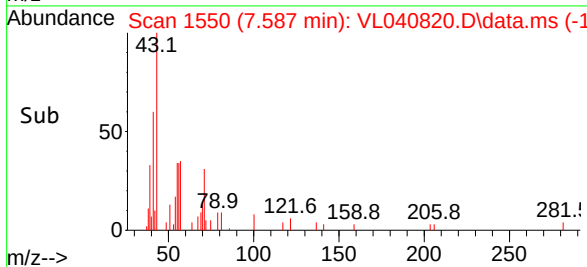
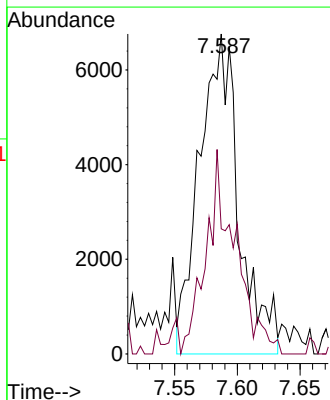
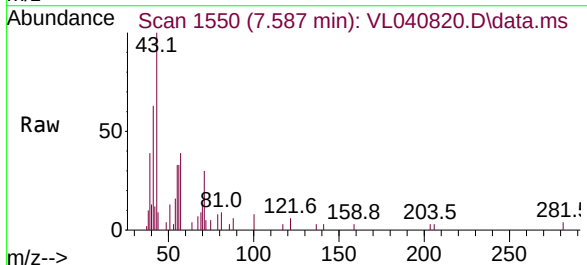
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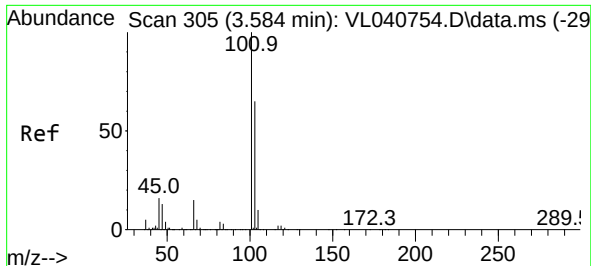
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#10
Heptane
Concen: 0.109 ppbv m
RT: 7.587 min Scan# 1550
Delta R.T. 0.000 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

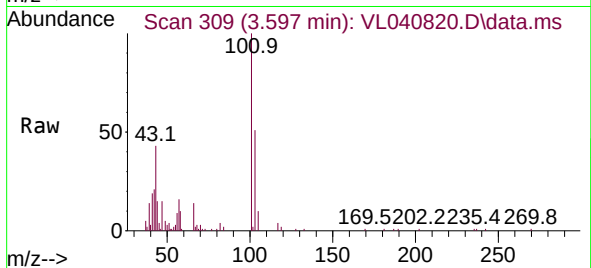
Tgt Ion: 43 Resp: 14690
Ion Ratio Lower Upper
43 100
57 0.0 40.0 60.0#





#11
Trichlorofluoromethane
Concen: 0.270 ppbv
RT: 3.597 min Scan# 305
Delta R.T. 0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

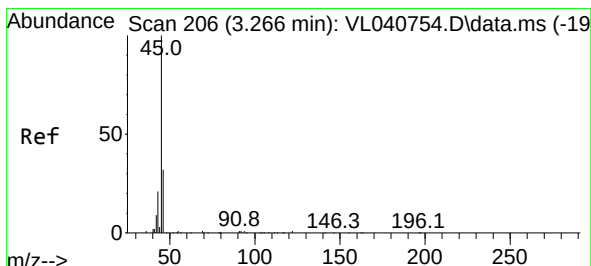
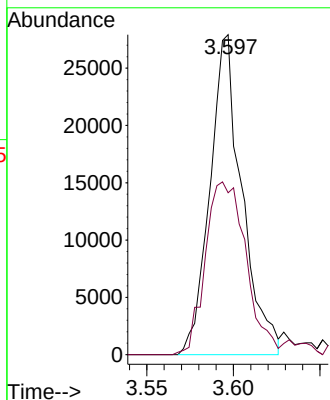
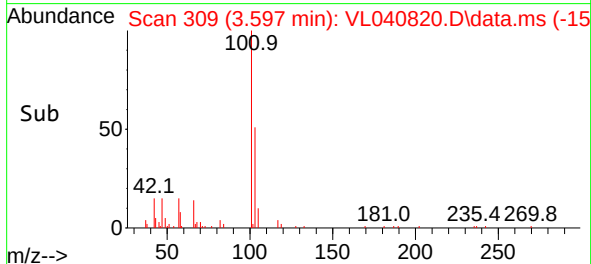
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2



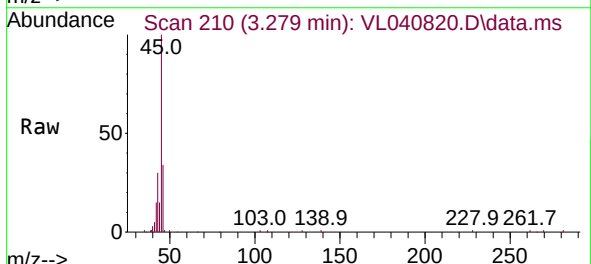
Tgt Ion:101 Resp: 35978
Ion Ratio Lower Upper
101 100
103 49.8 52.2 78.2

Manual Integrations
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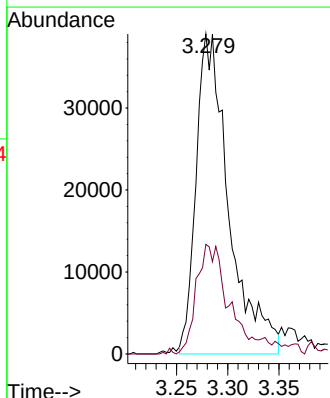
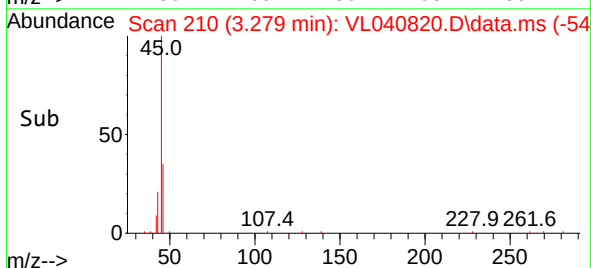
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023

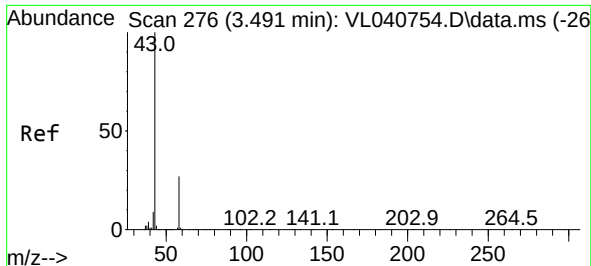


#13
Ethanol
Concen: 7.178 ppbv m
RT: 3.279 min Scan# 210
Delta R.T. 0.000 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13



Tgt Ion: 45 Resp: 86738
Ion Ratio Lower Upper
45 100
46 36.9 14.6 58.2





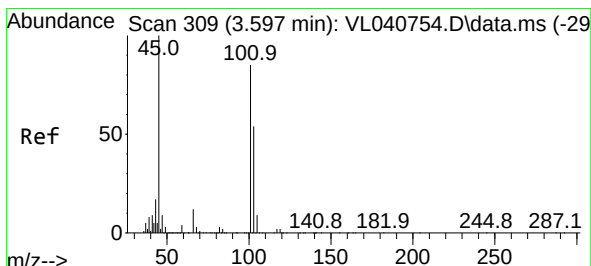
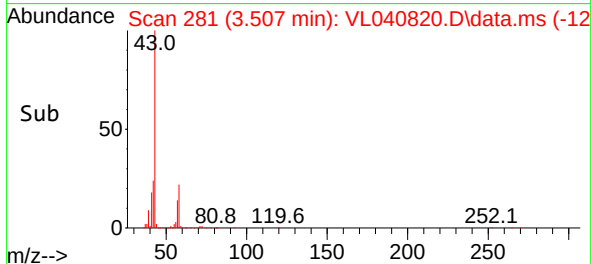
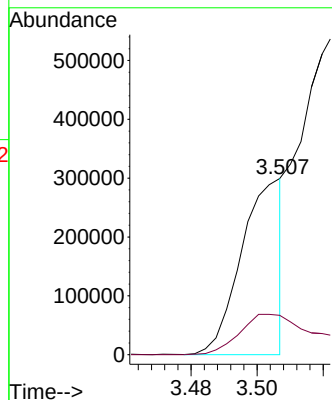
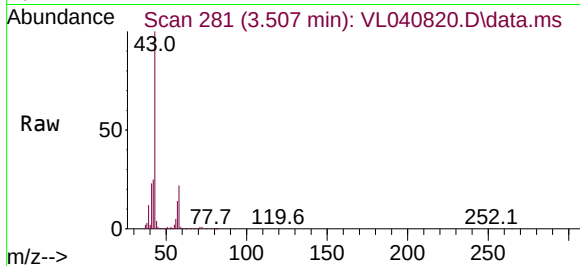
#15
Acetone
Concen: 2.560 ppbv m
RT: 3.507 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2

Tgt Ion: 43 Resp: 25956
Ion Ratio Lower Upper
43 100
58 50.3 21.6 32.4

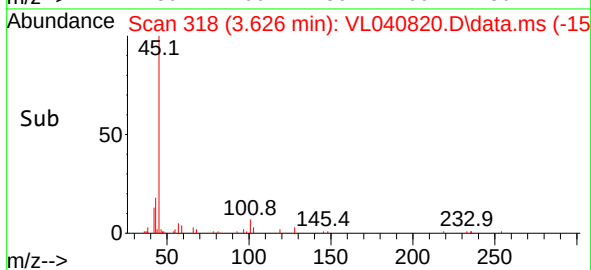
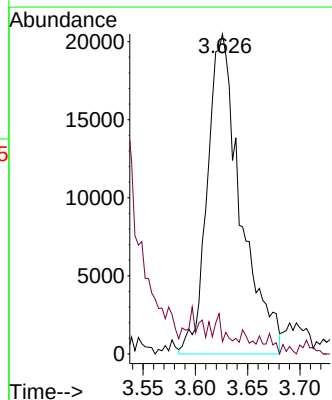
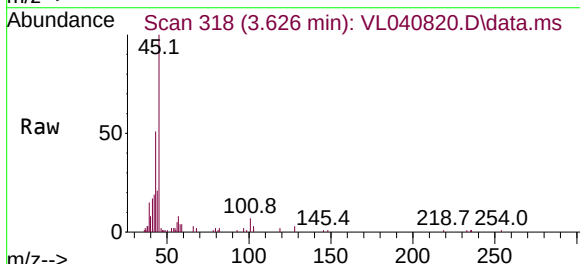
Manual Integrations
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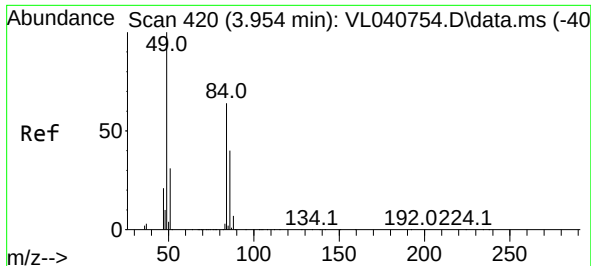
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#19
Isopropyl Alcohol
Concen: 0.697 ppbv m
RT: 3.626 min Scan# 318
Delta R.T. 0.019 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

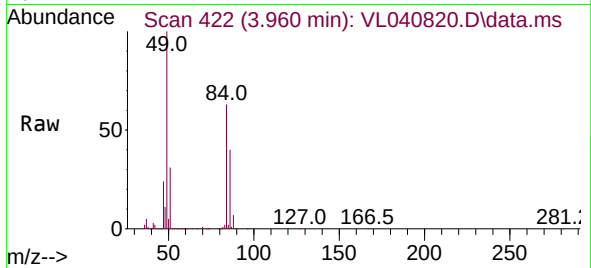
Tgt Ion: 45 Resp: 45482
Ion Ratio Lower Upper
45 100
58 0.0 30.3 45.5





#20
Methylene Chloride
Concen: 28.974 ppbv
RT: 3.960 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2

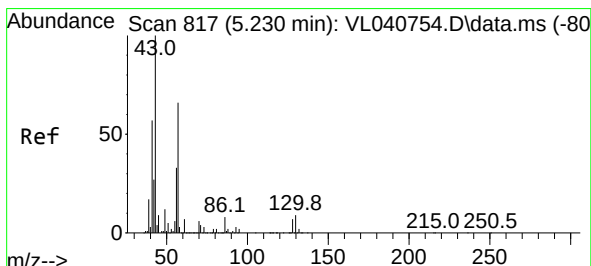
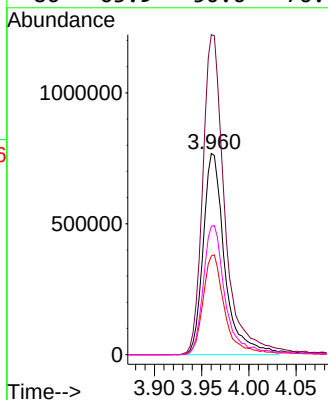
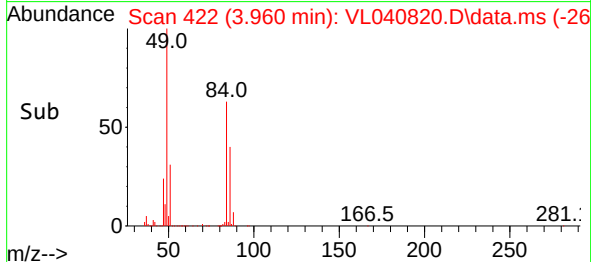


Tgt Ion: 84 Resp: 122356

Ion	Ratio	Lower	Upper
84	100		
49	159.0	125.6	188.4
51	48.9	38.9	58.3
86	63.9	50.6	76.0

Manual Integrations
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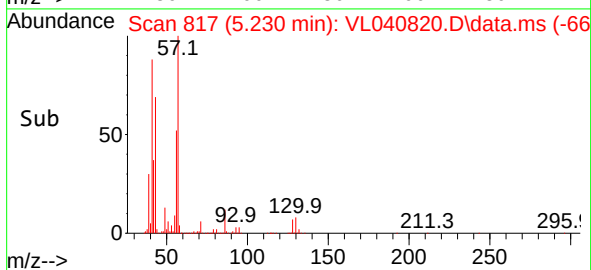
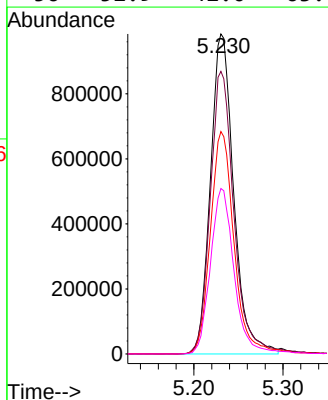
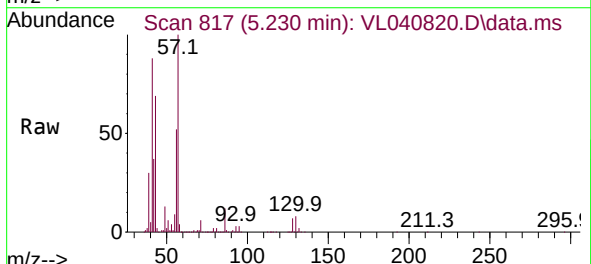
Reviewed By :Semsettin Yesilyurt 11/11/2023
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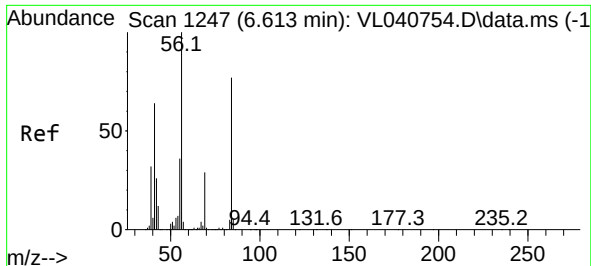


#26
Hexane
Concen: 17.589 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 57 Resp: 1785652

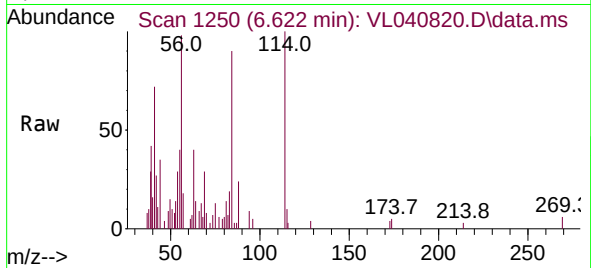
Ion	Ratio	Lower	Upper
57	100		
41	90.7	71.4	107.2
43	71.0	182.3	273.5#
56	52.9	42.0	63.0





#30
Cyclohexane
Concen: 0.116 ppbv m
RT: 6.622 min Scan# 1250
Delta R.T. 0.013 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

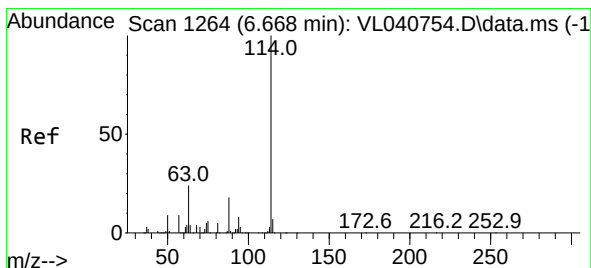
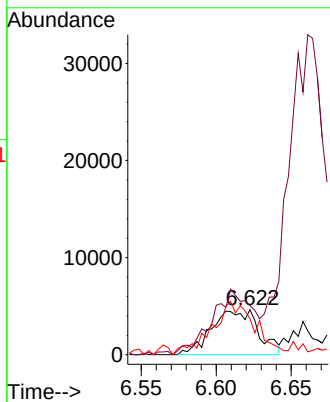
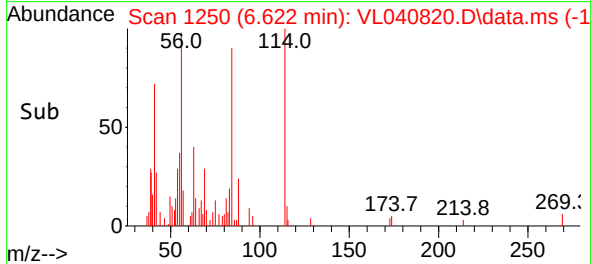
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2



Tgt Ion: 84 Resp: 999
Ion Ratio Lower Upper
84 100
56 130.4 110.3 165.5
41 124.6 67.4 101.2

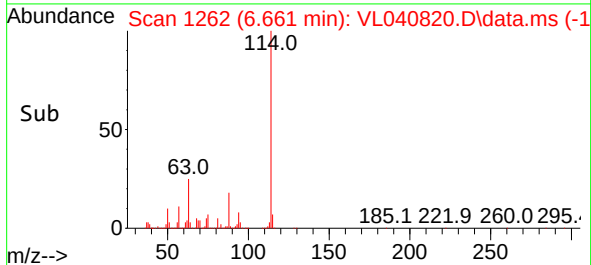
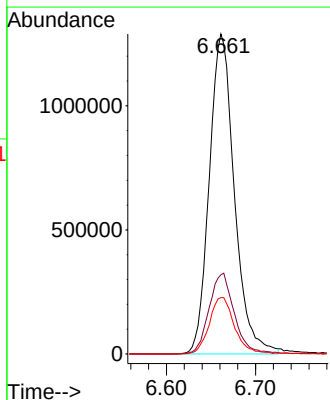
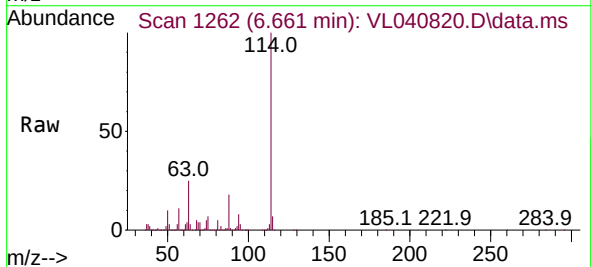
Manual Integrations
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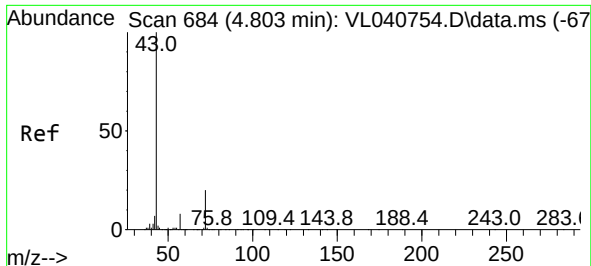
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion:114 Resp: 2524695
Ion Ratio Lower Upper
114 100
63 25.7 19.8 29.6
88 17.9 14.2 21.2





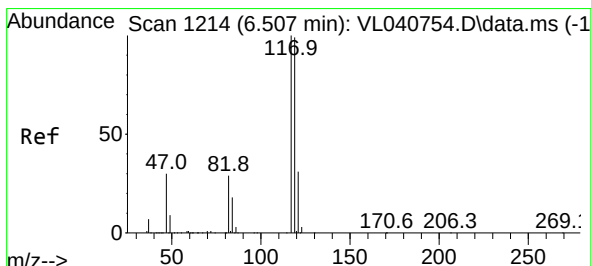
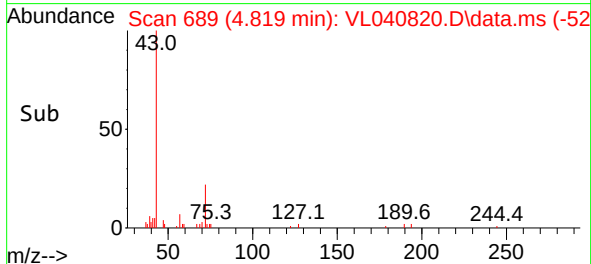
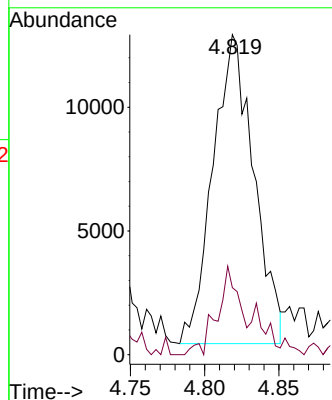
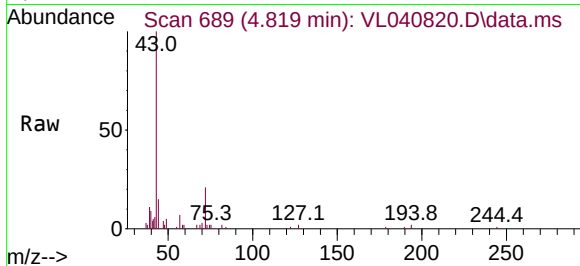
#34
2-Butanone
Concen: 0.209 ppbv
RT: 4.819 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2

Tgt Ion: 43 Resp: 23904
Ion Ratio Lower Upper
43 100
72 24.1 16.8 25.2

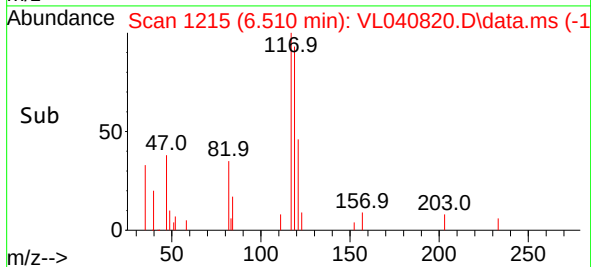
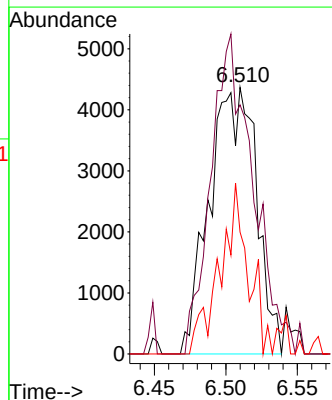
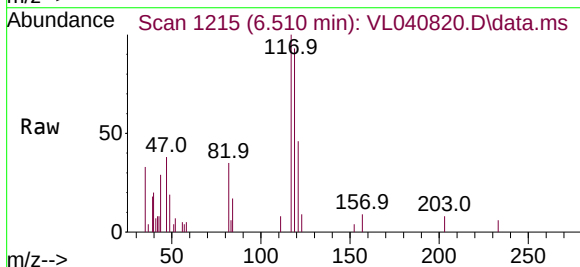
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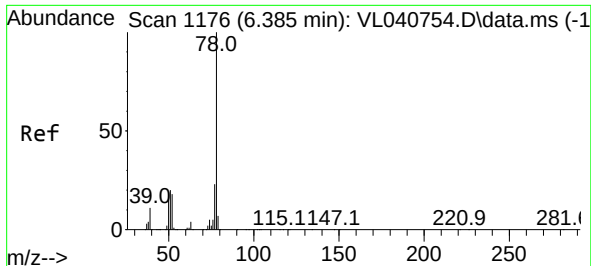
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 6.510 min Scan# 1215
Delta R.T. 0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

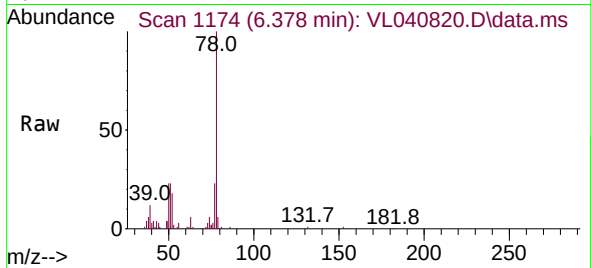
Tgt Ion:117 Resp: 10049
Ion Ratio Lower Upper
117 100
119 93.4 79.4 119.0
121 45.8 25.0 37.4#





#36
Benzene
Concen: 0.385 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

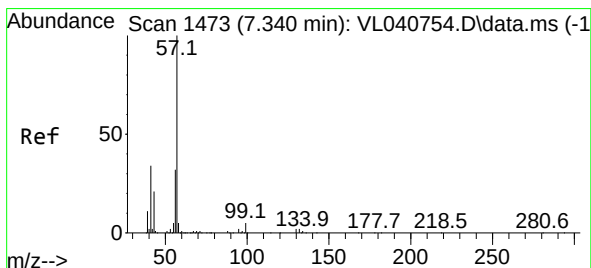
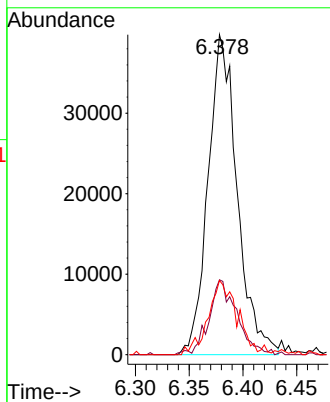
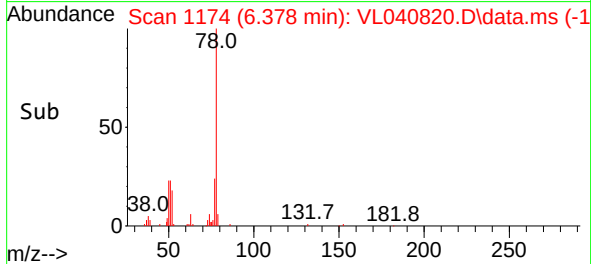
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2



Tgt Ion: 78 Resp: 7474
Ion Ratio Lower Upper
78 100
77 23.0 18.4 27.6
50 23.2 15.0 22.4

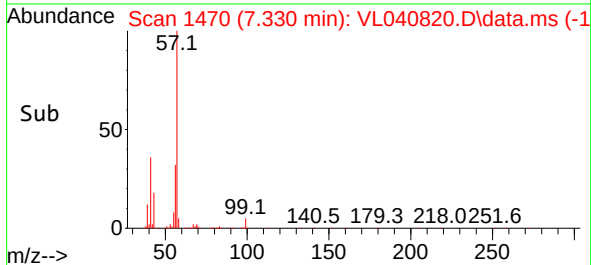
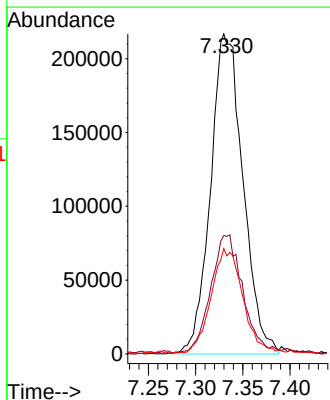
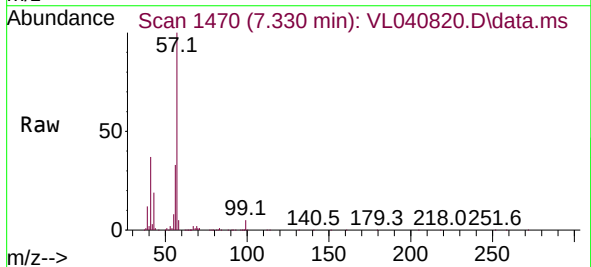
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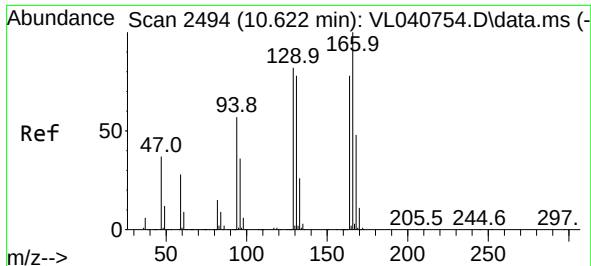
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#44
2,2,4-Trimethylpentane
Concen: 1.575 ppbv m
RT: 7.330 min Scan# 1470
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

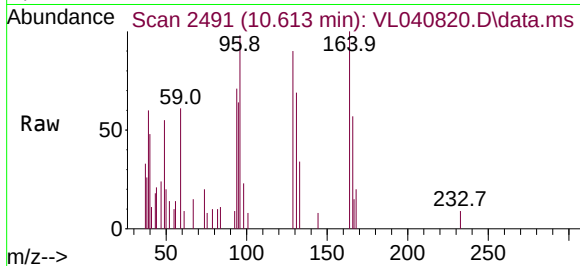
Tgt Ion: 57 Resp: 517134
Ion Ratio Lower Upper
57 100
41 0.0 27.4 41.0#
56 32.9 25.0 37.6





#52
Tetrachloroethene
Concen: 0.035 ppbv m
RT: 10.613 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

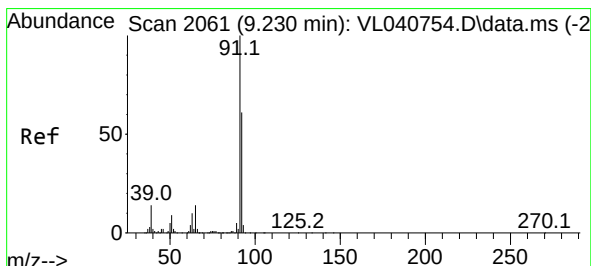
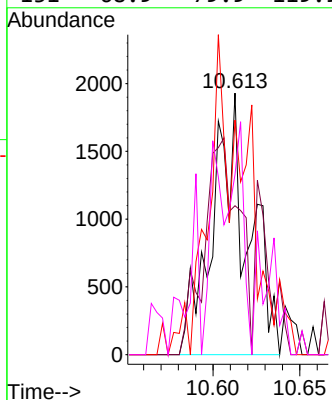
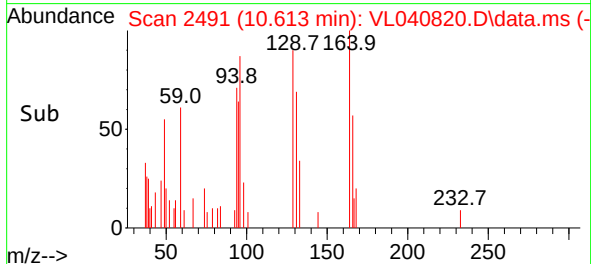
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2



Tgt Ion:164 Resp: 276
Ion Ratio Lower Upper
164 100
166 56.9 102.4 153.6
129 89.7 84.2 126.4
131 68.9 79.9 119.9#

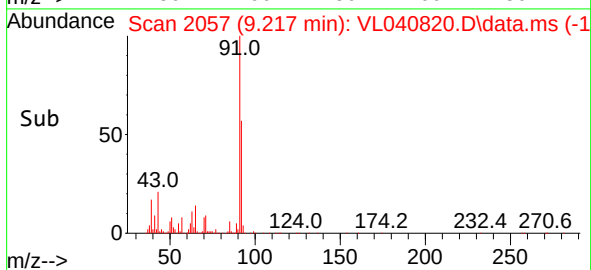
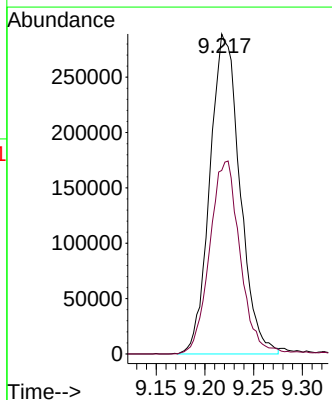
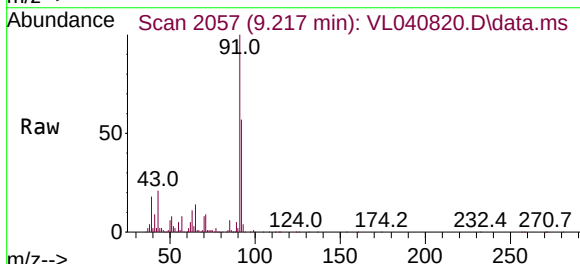
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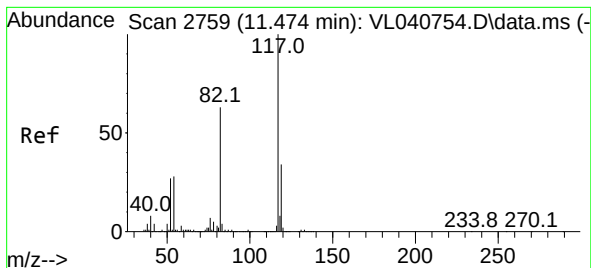
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#53
Toluene
Concen: 2.679 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 91 Resp: 619152
Ion Ratio Lower Upper
91 100
92 61.6 50.2 75.2





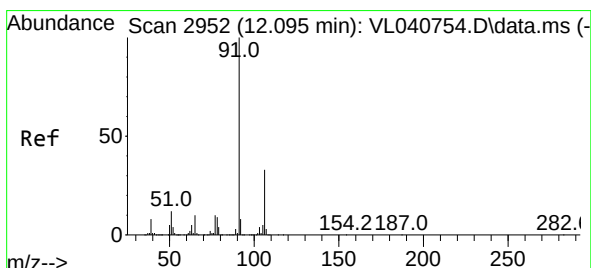
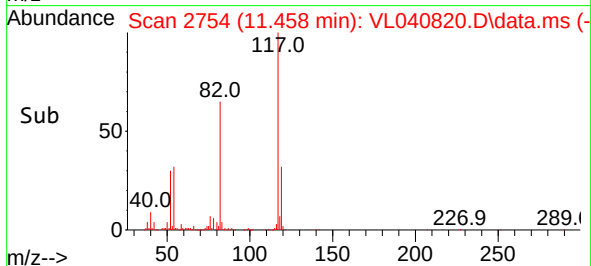
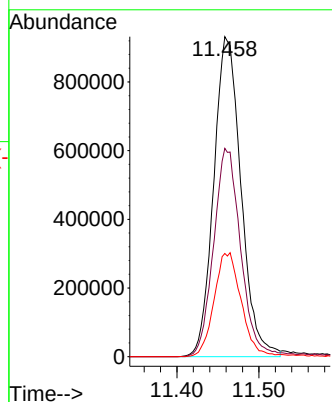
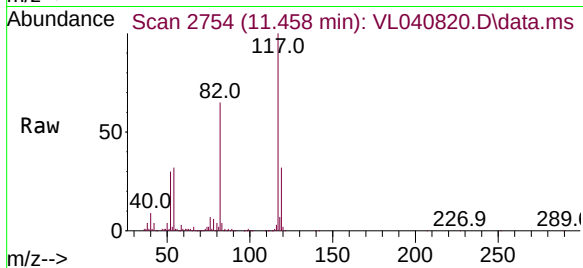
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2

Tgt Ion:117 Resp: 2157800
Ion Ratio Lower Upper
117 100
82 65.7 46.6 70.0
119 32.9 26.0 39.0

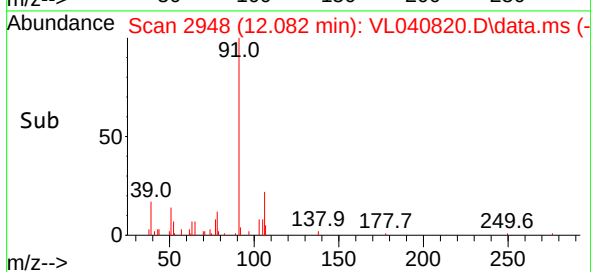
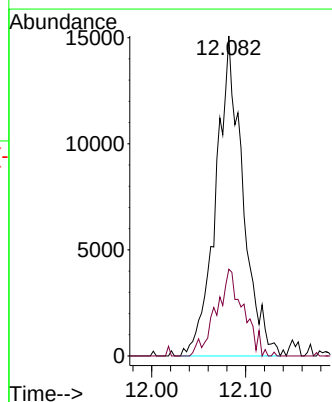
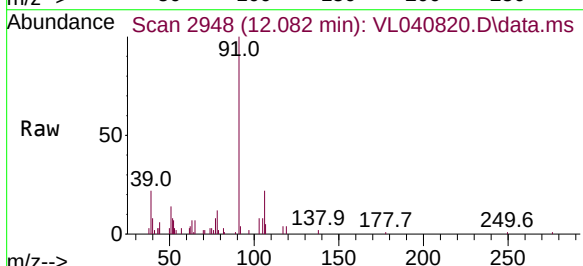
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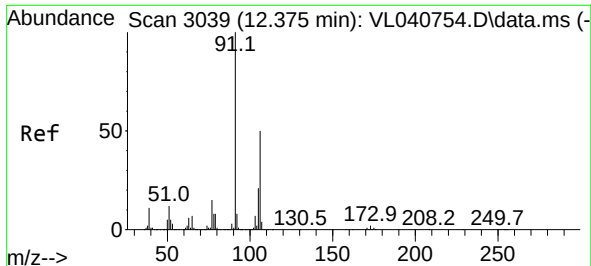
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#58
Ethyl Benzene
Concen: 0.110 ppbv m
RT: 12.082 min Scan# 2948
Delta R.T. 0.000 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 91 Resp: 30020
Ion Ratio Lower Upper
91 100
106 22.0 26.7 40.1#





#59

m/p-Xylene

Concen: 0.311 ppbv m

RT: 12.342 min Scan# 3039

Delta R.T. -0.026 min

Lab File: VL040820.D

Acq: 8 Nov 2023 21:13

Instrument :

MSVOA_L

ClientSampleId :

SH-IA-2

Tgt Ion: 91 Resp: 69549

Ion Ratio Lower Upper

91 100

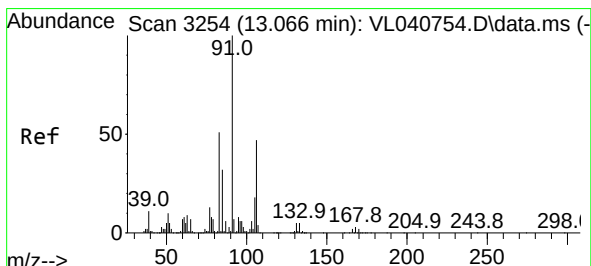
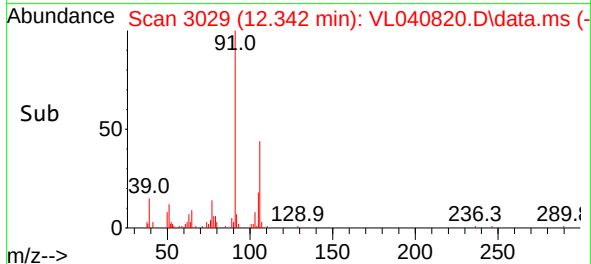
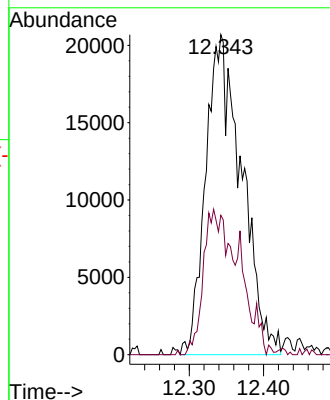
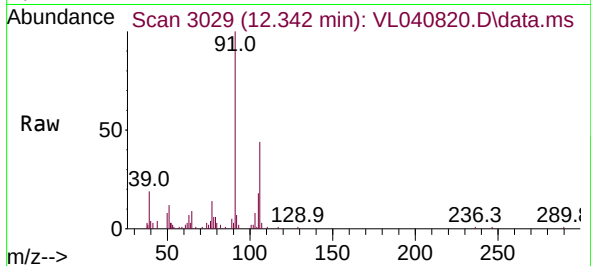
106 0.0 37.7 56.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/11/2023

Supervised By :Mahesh Dadoda 11/13/2023



#60

o-Xylene

Concen: 0.183 ppbv m

RT: 13.050 min Scan# 3249

Delta R.T. -0.003 min

Lab File: VL040820.D

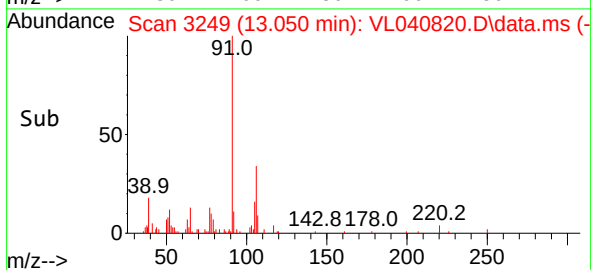
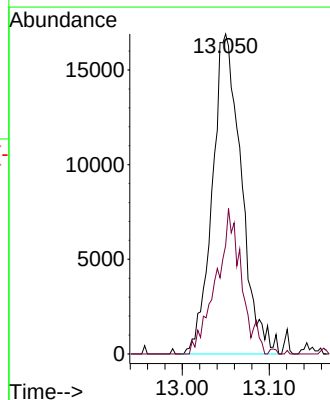
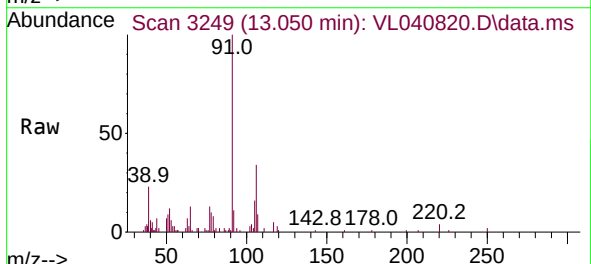
Acq: 8 Nov 2023 21:13

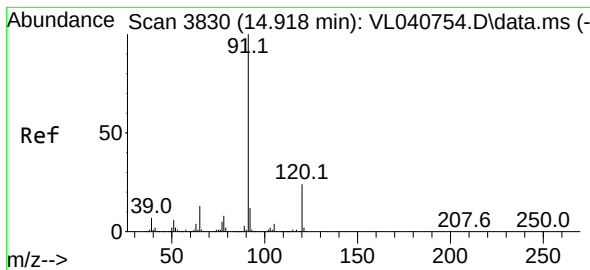
Tgt Ion: 91 Resp: 39074

Ion Ratio Lower Upper

91 100

106 40.2 23.5 70.5





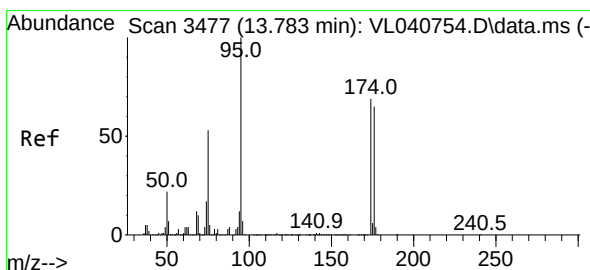
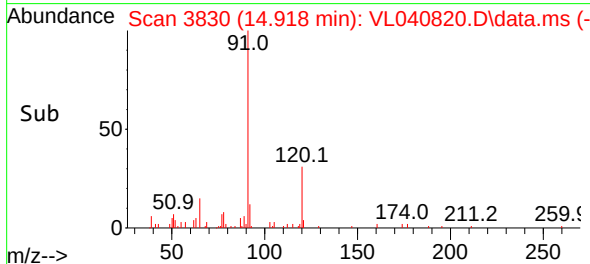
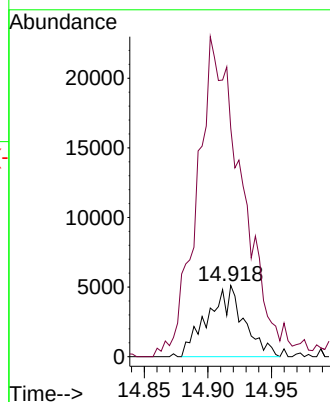
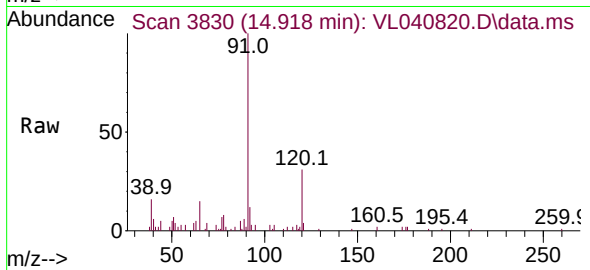
#64
n-propylbenzene
Concen: 0.115 ppbv m
RT: 14.918 min Scan# 3830
Delta R.T. 0.010 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2

Tgt Ion:120 Resp: 10100
Ion Ratio Lower Upper
120 100
91 573.6 345.9 518.9

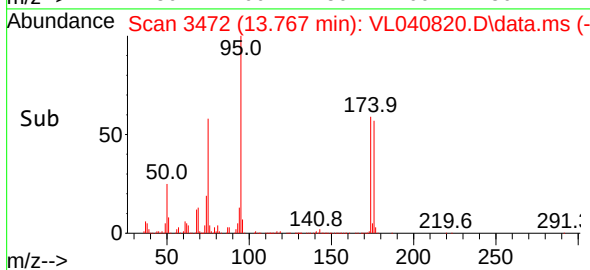
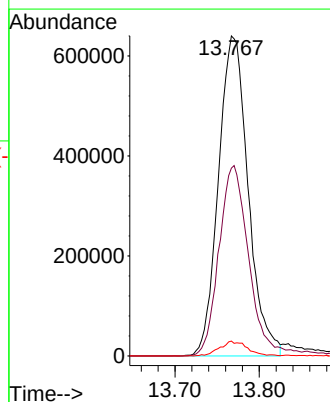
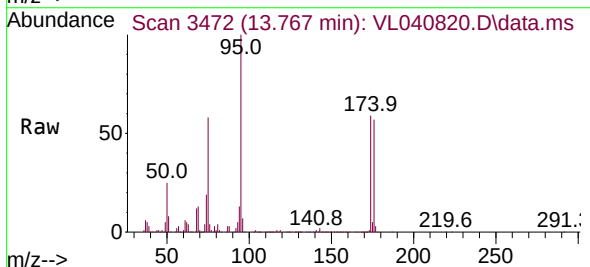
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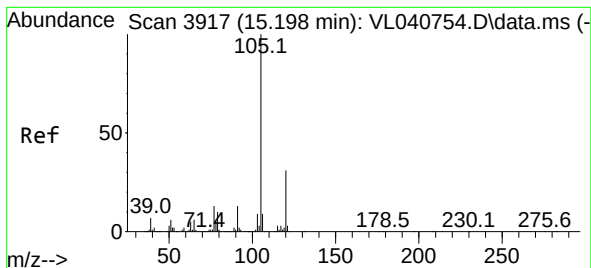
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.864 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

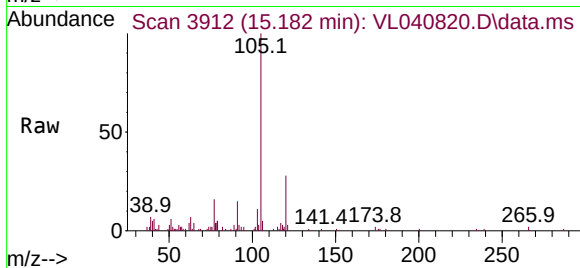
Tgt Ion: 95 Resp: 1566102
Ion Ratio Lower Upper
95 100
174 61.5 54.7 82.1
175 4.5 4.2 6.4





#72
4-Ethyltoluene
Concen: 0.253 ppbv m
RT: 15.182 min Scan# 3912
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

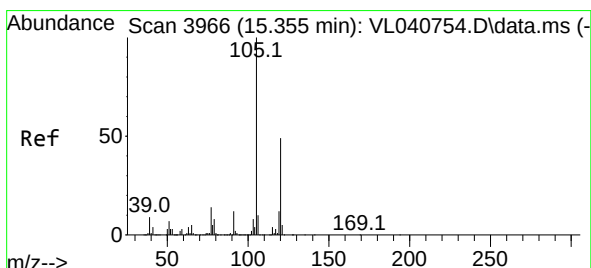
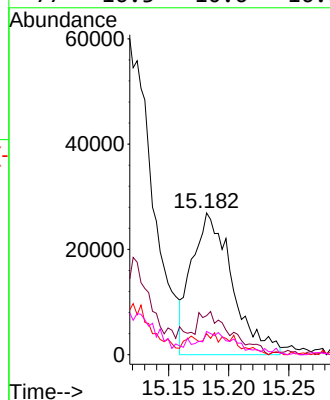
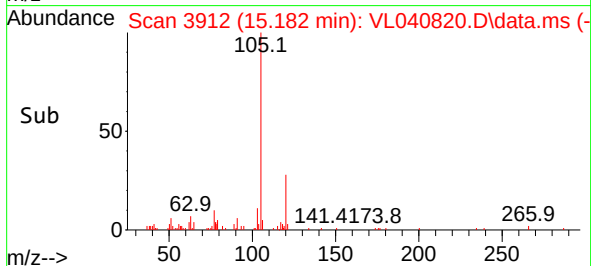
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2



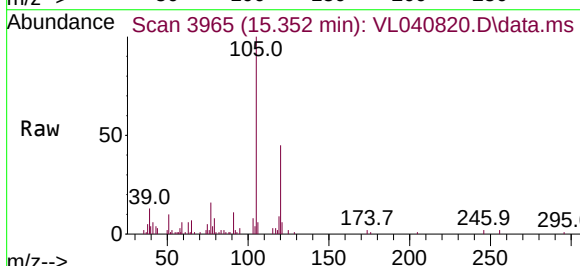
Tgt Ion:105 Resp: 63229
Ion Ratio Lower Upper
105 100
120 25.1 25.0 37.4
91 17.1 9.8 14.8
77 16.3 10.6 16.0#

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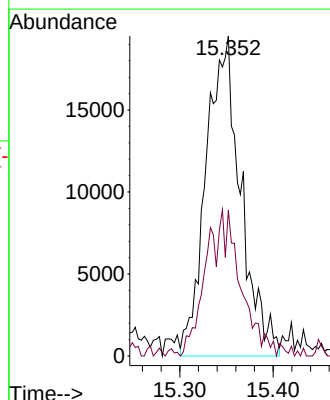
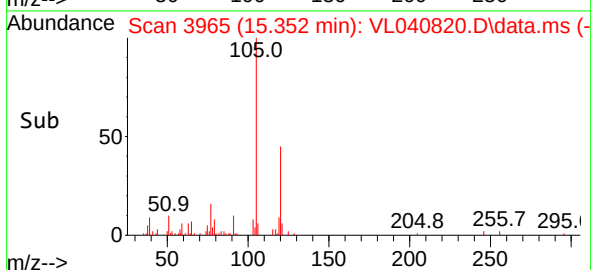
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023

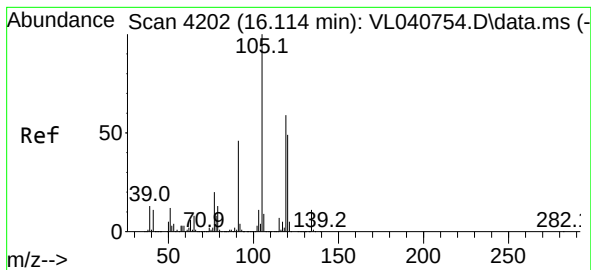


#73
1,3,5-Trimethylbenzene
Concen: 0.229 ppbv m
RT: 15.352 min Scan# 3965
Delta R.T. 0.010 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13



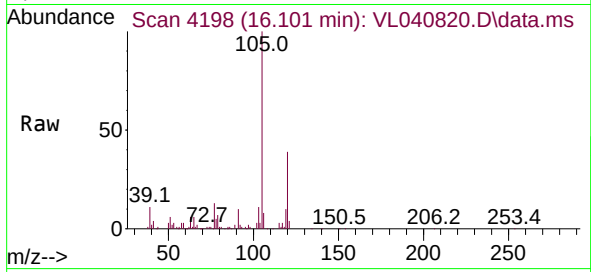
Tgt Ion:105 Resp: 50291
Ion Ratio Lower Upper
105 100
120 45.5 39.4 59.2





#74
1,2,4-Trimethylbenzene
Concen: 0.781 ppbv
RT: 16.101 min Scan# 4198
Delta R.T. 0.000 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2



Tgt Ion:105 Resp: 187398
Ion Ratio Lower Upper
105 100
120 39.0 39.4 59.2
91 10.0 38.6 58.0
77 12.9 16.6 25.0#

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023

