

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020623\
 Data File : VL040152.D
 Acq On : 6 Feb 2023 19:03
 Operator : SY/MD
 Sample : 01438-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/07/2023
 Supervised By : Mahesh Dadoda 02/08/2023

Quant Time: Feb 07 05:58:14 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M

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

QLast Update : Tue Jan 31 05:24:57 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	859096	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2213528	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	1906352	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1474873	9.309	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.713	85	71783	0.477	ppbv	99
3) Chlorodifluoromethane	2.661	51	28212m	0.274	ppbv	
4) Chloromethane	2.793	50	25096	0.394	ppbv	96
9) Propene	2.677	41	261091	6.099	ppbv	97
10) Heptane	7.568	43	40320m	0.409	ppbv	
11) Trichlorofluoromethane	3.546	101	31495	0.210	ppbv	93
13) Ethanol	3.224	45	315200	79.990	ppbv	99
15) Acetone	3.452	43	682225m	6.622	ppbv	
19) Isopropyl Alcohol	3.562	45	6216969	123.325	ppbv #	94
20) Methylene Chloride	3.918	84	1481412	32.590	ppbv	97
26) Hexane	5.198	57	511847	6.444	ppbv #	37
30) Cyclohexane	6.584	84	14711m	0.233	ppbv	
34) 2-Butanone	4.777	43	39422m	0.377	ppbv	
35) Carbon Tetrachloride	6.468	117	8384m	0.067	ppbv	
36) Benzene	6.356	78	409584	2.500	ppbv	99
44) 2,2,4-Trimethylpentane	7.314	57	80139	0.294	ppbv #	76
53) Toluene	9.208	91	540154	3.092	ppbv	99
58) Ethyl Benzene	12.082	91	143842	0.676	ppbv	98
59) m/p-Xylene	12.333	91	359002	1.877	ppbv	96
60) o-Xylene	13.050	91	128054	0.705	ppbv	99
61) Styrene	12.896	104	10293m	0.109	ppbv	
69) p-Isopropyltoluene	16.979	119	26905m	0.108	ppbv	
70) n-Butylbenzene	17.892	91	27600m	0.103	ppbv	
72) 4-Ethyltoluene	15.182	105	44195m	0.219	ppbv	
73) 1,3,5-Trimethylbenzene	15.342	105	34285m	0.189	ppbv	
74) 1,2,4-Trimethylbenzene	16.101	105	152327	0.758	ppbv #	67
79) Naphthalene	21.384	128	28351m	0.246	ppbv	

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

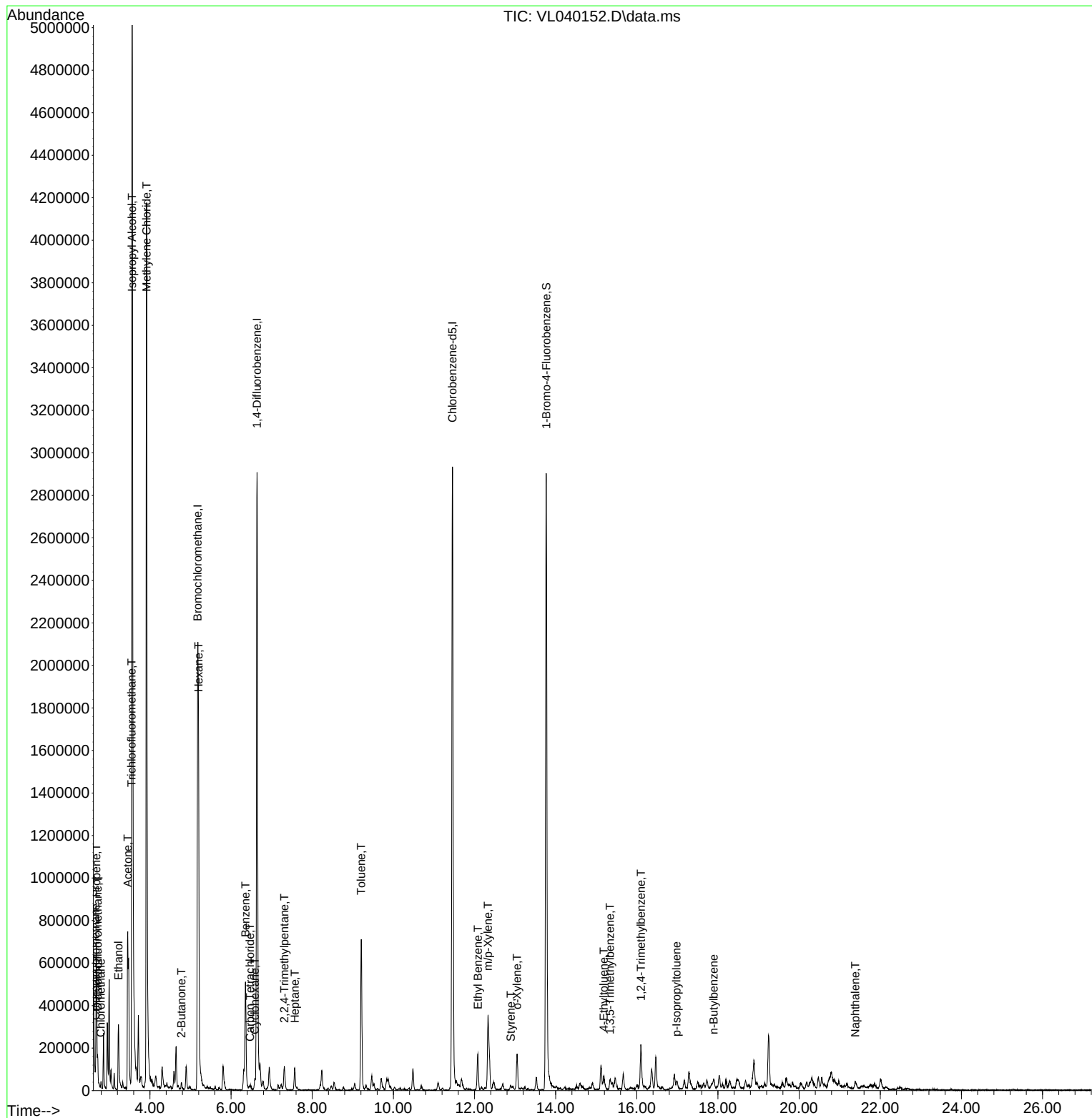
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020623\
Data File : VL040152.D
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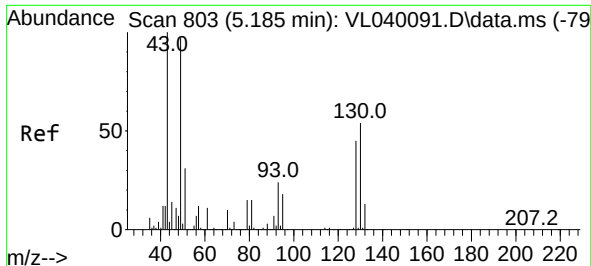
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Feb 07 05:58:14 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 31 05:24:57 2023
Response via : Initial Calibration

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APPROVED

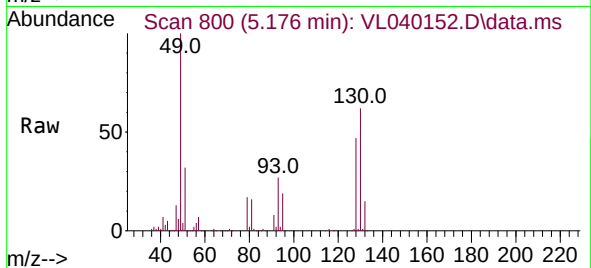
Reviewed By : Semsettin Yesilyurt 02/07/2023
Supervised By : Mahesh Dadoda 02/08/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

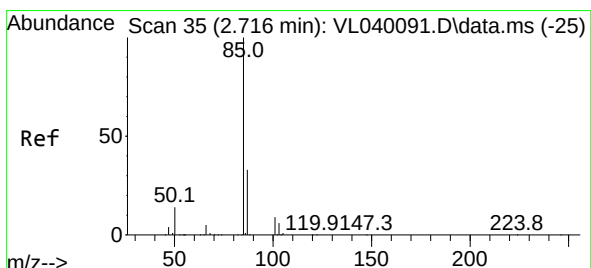
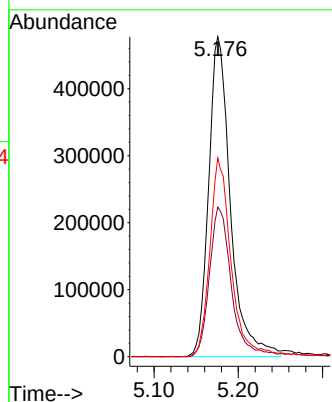
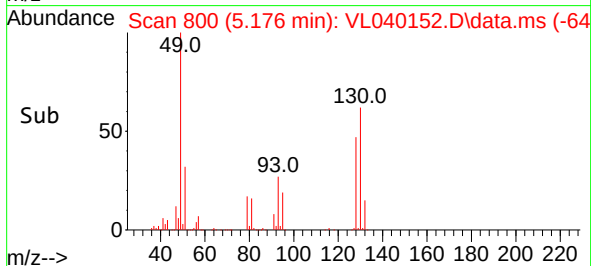
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 49 Resp: 859090
Ion Ratio Lower Upper
49 100
128 48.1 23.6 71.0
130 62.2 29.8 89.3

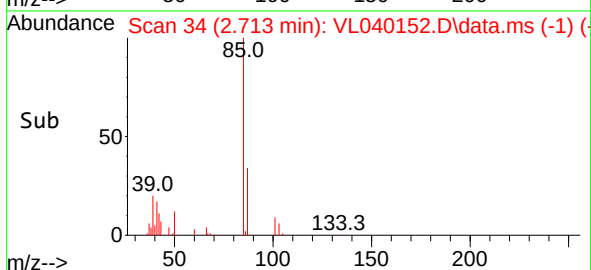
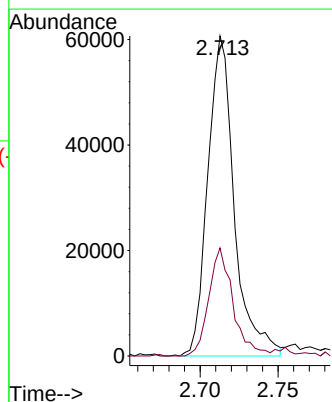
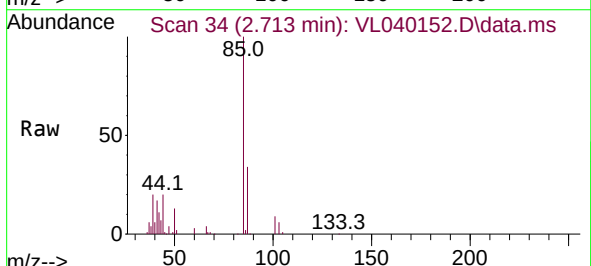
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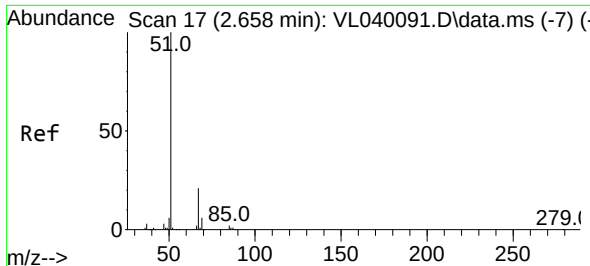
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#2
Dichlorodifluoromethane
Concen: 0.477 ppbv
RT: 2.713 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Tgt Ion: 85 Resp: 71783
Ion Ratio Lower Upper
85 100
87 33.7 26.5 39.7





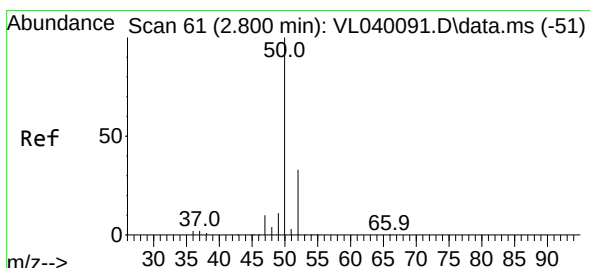
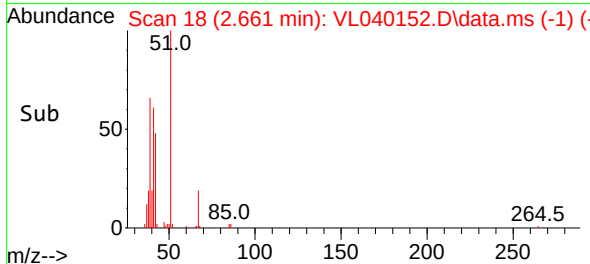
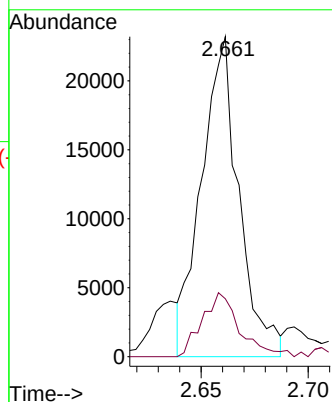
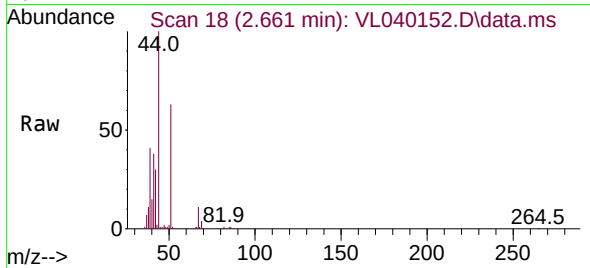
#3
Chlorodifluoromethane
Concen: 0.274 ppbv m
RT: 2.661 min Scan# 17
Delta R.T. 0.006 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

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Tgt Ion: 51 Resp: 2821
Ion Ratio Lower Upper
51 100
67 20.1 16.4 24.6

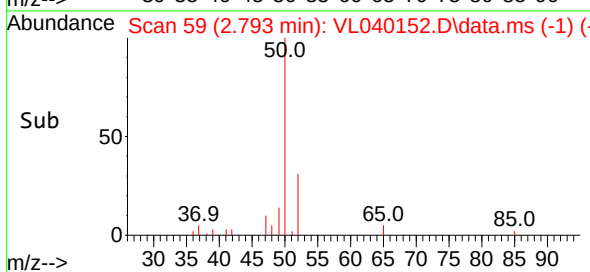
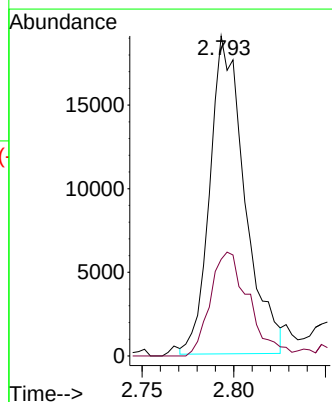
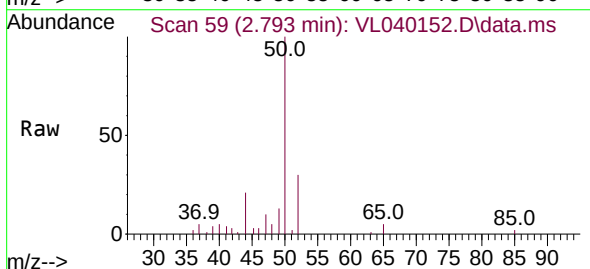
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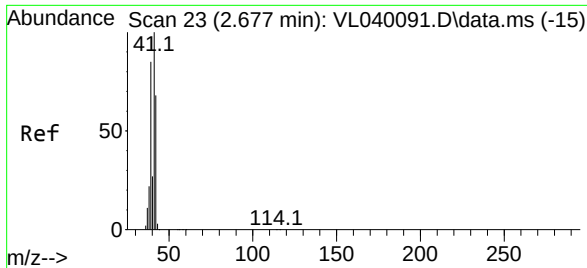
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#4
Chloromethane
Concen: 0.394 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.000 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

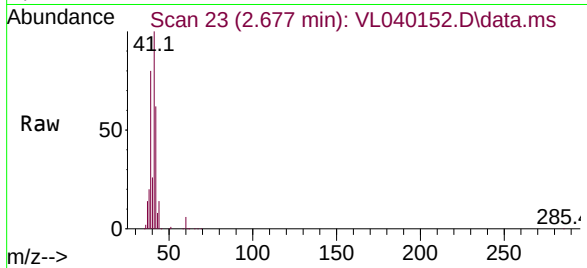
Tgt Ion: 50 Resp: 25096
Ion Ratio Lower Upper
50 100
52 30.9 26.5 39.7





#9
 Propene
 Concen: 6.099 ppbv
 RT: 2.677 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VL040152.D
 Acq: 6 Feb 2023 19:03

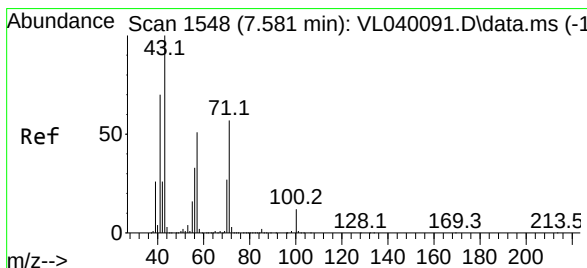
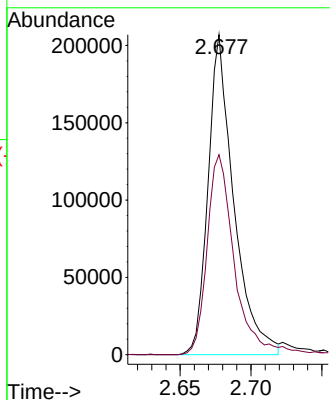
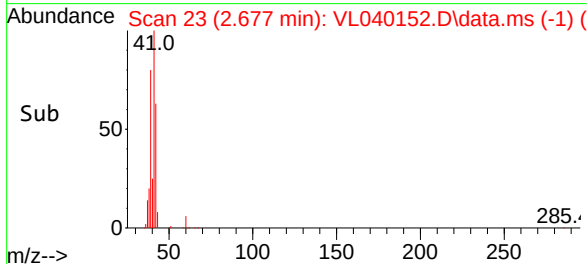
Instrument :
 MSVOA_L
 ClientSampleId :
 IA3



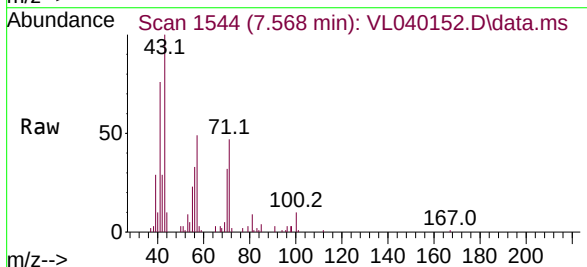
Tgt Ion: 41 Resp: 26109
 Ion Ratio Lower Upper
 41 100
 42 67.4 55.6 83.4

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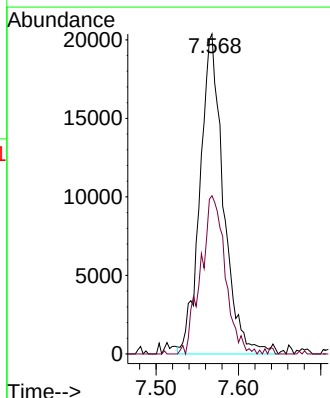
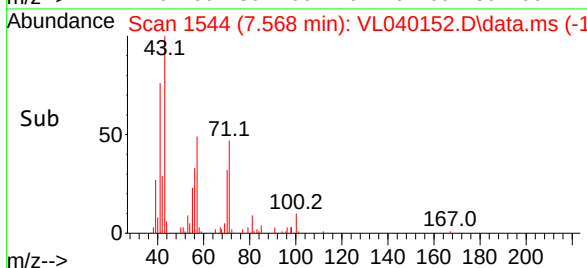
Reviewed By :Semsettin Yesilyurt 02/07/2023
 Supervised By :Mahesh Dadoda 02/08/2023

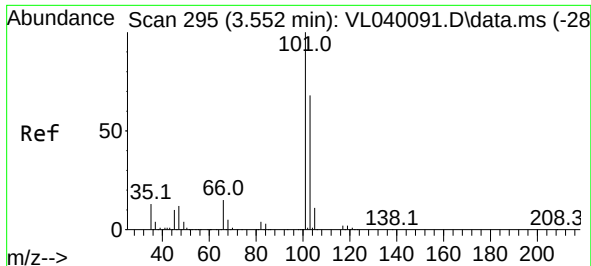


#10
 Heptane
 Concen: 0.409 ppbv m
 RT: 7.568 min Scan# 1544
 Delta R.T. 0.000 min
 Lab File: VL040152.D
 Acq: 6 Feb 2023 19:03



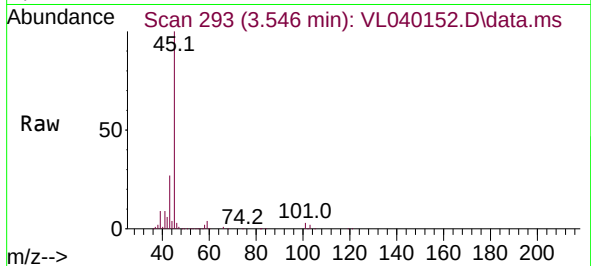
Tgt Ion: 43 Resp: 40320
 Ion Ratio Lower Upper
 43 100
 57 51.6 40.9 61.3





#11
Trichlorofluoromethane
Concen: 0.210 ppbv
RT: 3.546 min Scan# 295
Delta R.T. 0.000 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

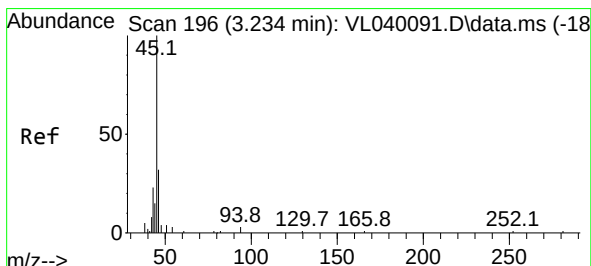
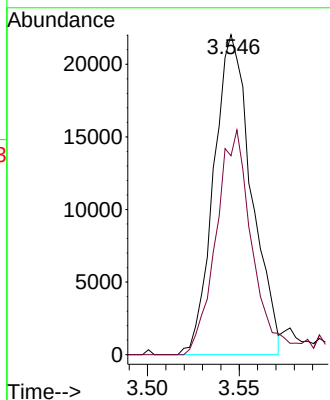
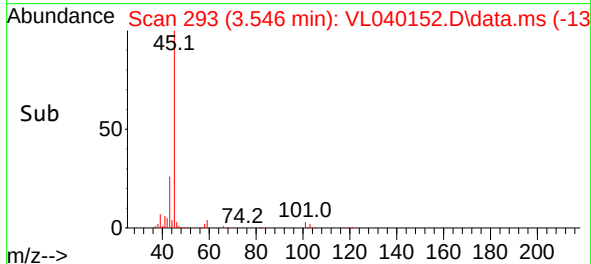
Instrument :
MSVOA_L
ClientSampleId :
IA3



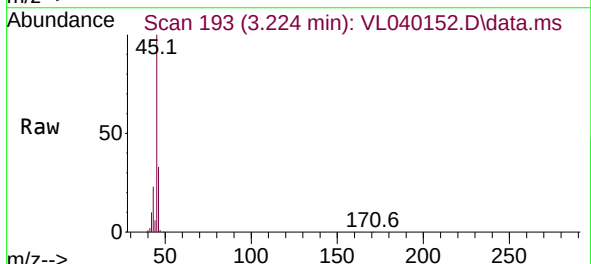
Tgt Ion:101 Resp: 3149
Ion Ratio Lower Upper
101 100
103 62.1 54.0 81.0

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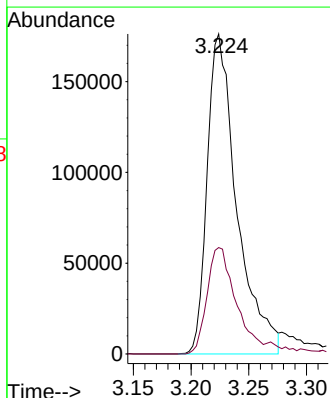
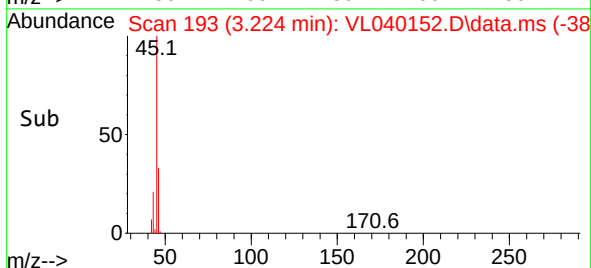
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023

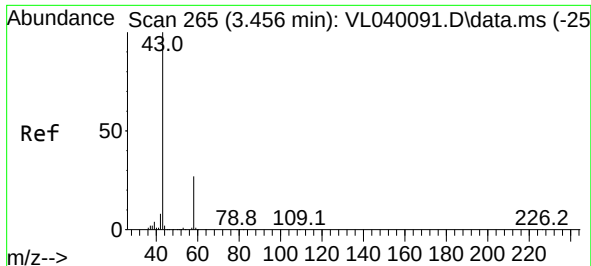


#13
Ethanol
Concen: 79.990 ppbv
RT: 3.224 min Scan# 193
Delta R.T. -0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03



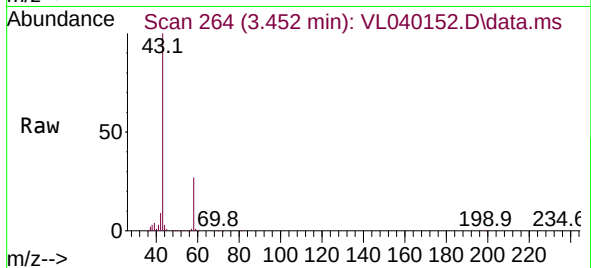
Tgt Ion: 45 Resp: 315200
Ion Ratio Lower Upper
45 100
46 36.2 14.8 59.2





#15
Acetone
Concen: 6.622 ppbv m
RT: 3.452 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

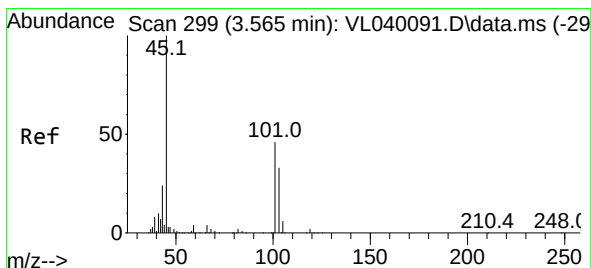
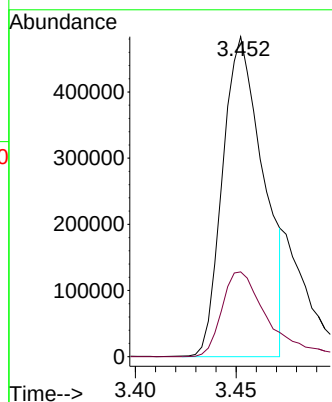
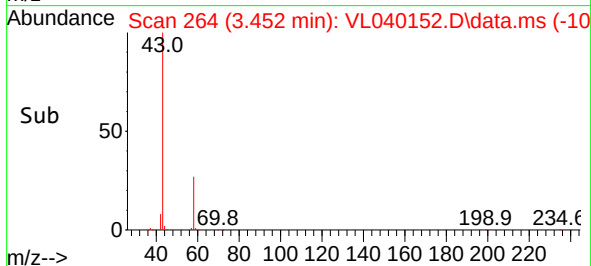
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 43 Resp: 682225
Ion Ratio Lower Upper
43 100
58 30.5 21.8 32.8

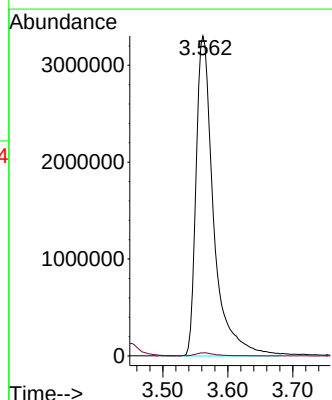
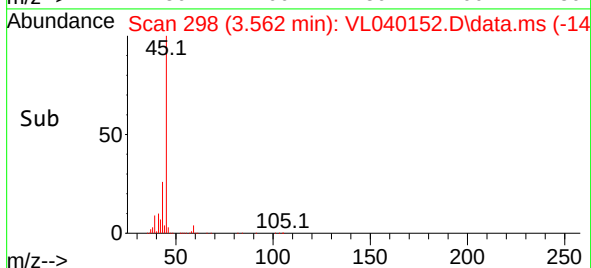
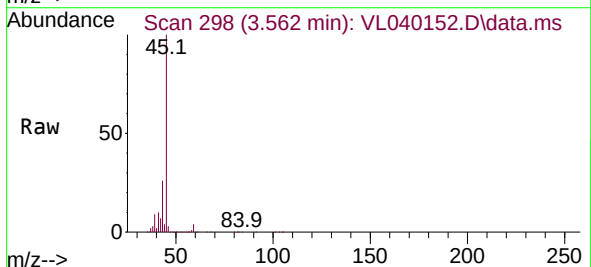
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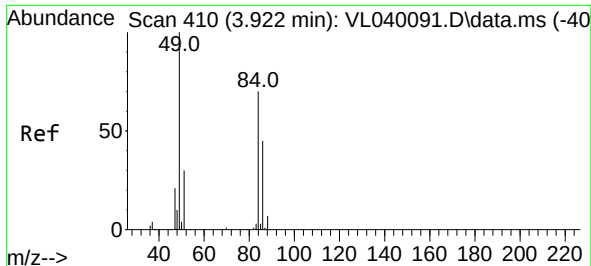
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#19
Isopropyl Alcohol
Concen: 123.325 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

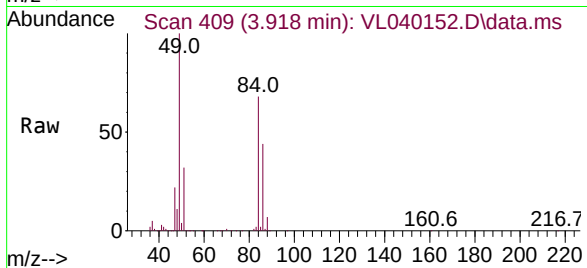
Tgt Ion: 45 Resp: 6216969
Ion Ratio Lower Upper
45 100
58 1.3 2.6 4.0#





#20
Methylene Chloride
Concen: 32.590 ppbv
RT: 3.918 min Scan# 409
Delta R.T. 0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Instrument :
MSVOA_L
Client Sample Id :
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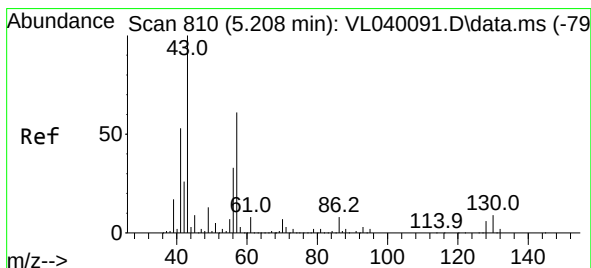
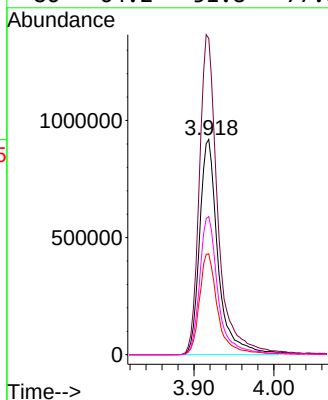
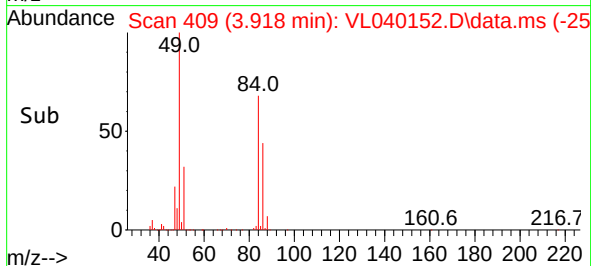


Tgt Ion: 84 Resp: 148141

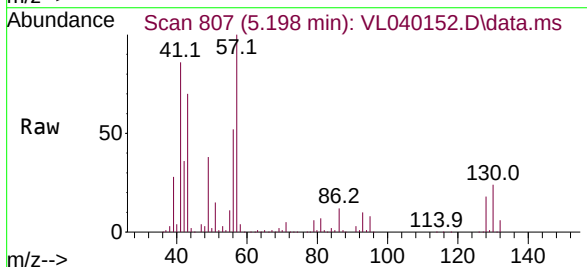
Ion	Ratio	Lower	Upper
84	100		
49	147.0	114.6	171.8
51	46.8	34.3	51.5
86	64.2	51.8	77.8

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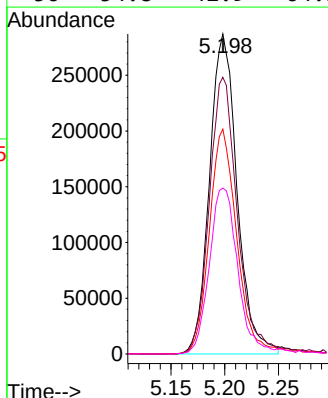
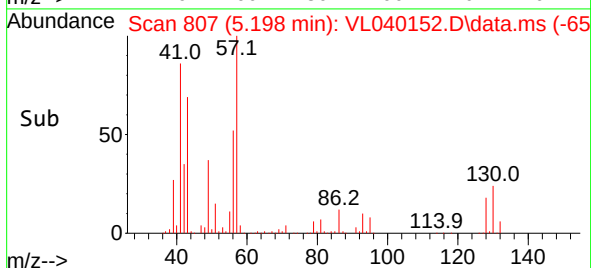


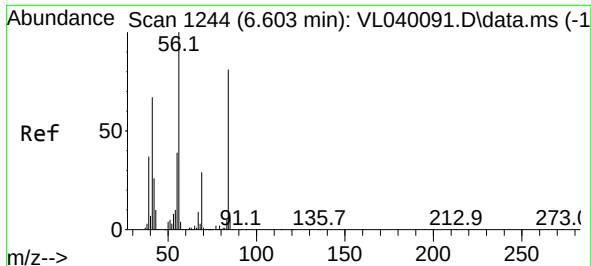
#26
Hexane
Concen: 6.444 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.000 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03



Tgt Ion: 57 Resp: 511847

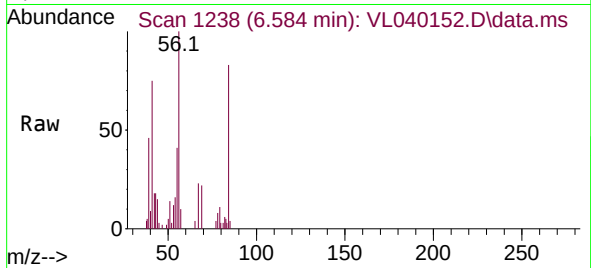
Ion	Ratio	Lower	Upper
57	100		
41	89.6	72.2	108.4
43	71.1	192.1	288.1#
56	54.8	42.9	64.3





#30
Cyclohexane
Concen: 0.233 ppbv m
RT: 6.584 min Scan# 1238
Delta R.T. -0.006 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

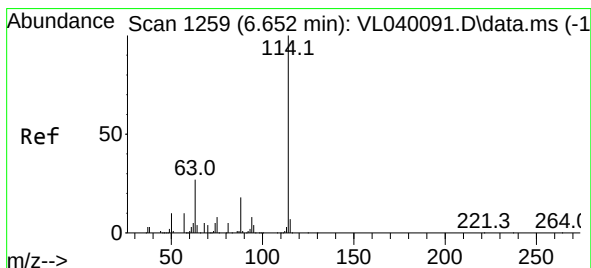
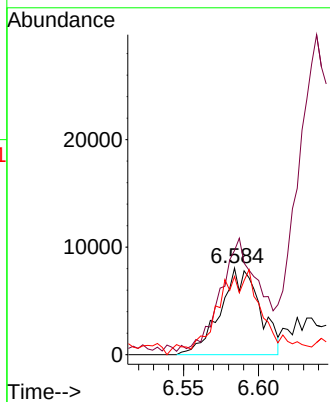
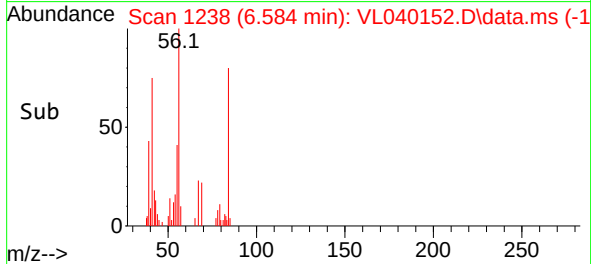
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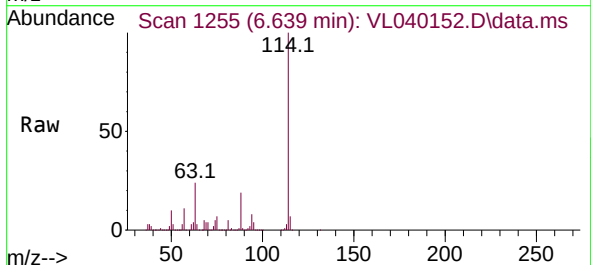
Tgt Ion: 84 Resp: 14711
Ion Ratio Lower Upper
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56 0.0 111.5 167.3
41 0.0 71.4 107.0

Manual Integrations
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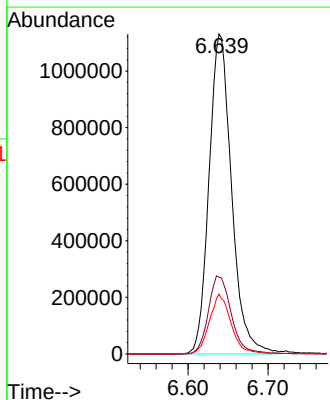
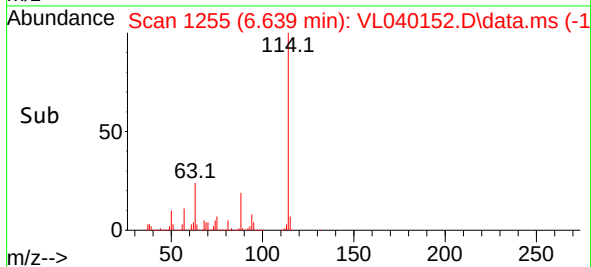
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023

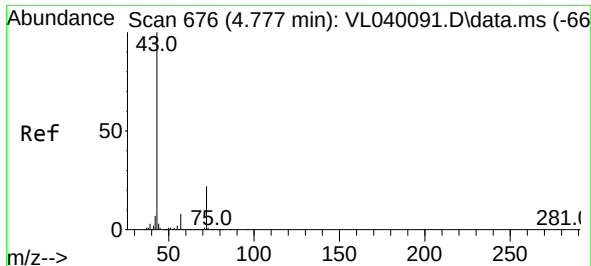


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03



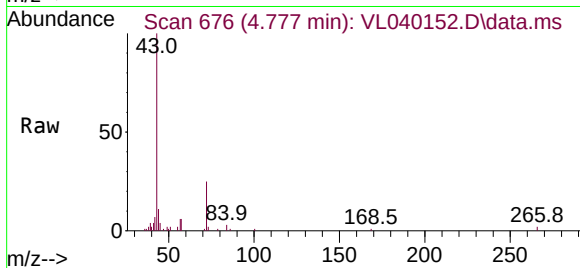
Tgt Ion:114 Resp: 2213528
Ion Ratio Lower Upper
114 100
63 25.0 21.8 32.8
88 18.1 14.8 22.2





#34
2-Butanone
Concen: 0.377 ppbv m
RT: 4.777 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

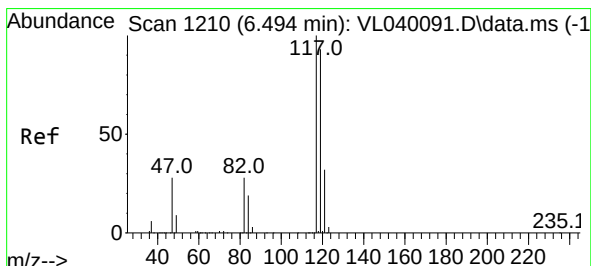
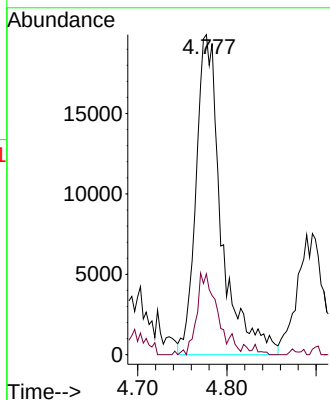
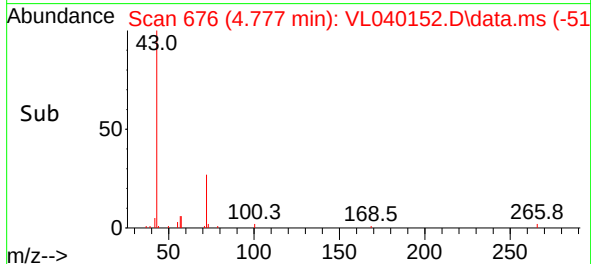
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 43 Resp: 3942
Ion Ratio Lower Upper
43 100
72 22.4 18.4 27.6

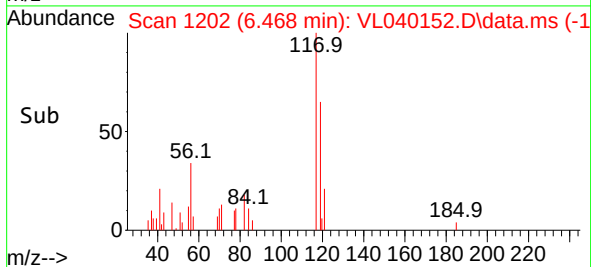
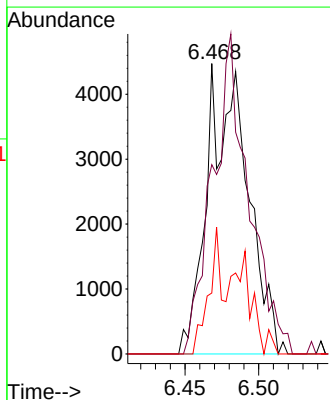
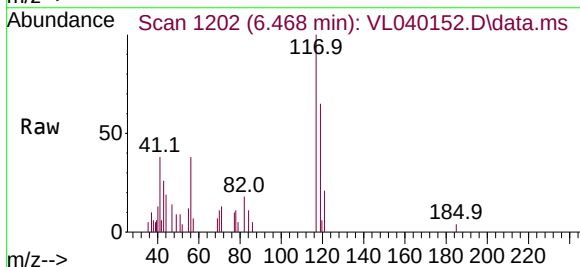
Manual Integrations
APPROVED

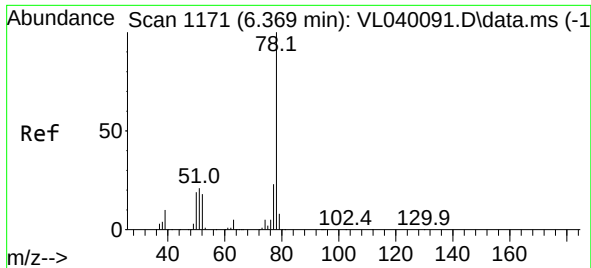
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#35
Carbon Tetrachloride
Concen: 0.067 ppbv m
RT: 6.468 min Scan# 1202
Delta R.T. -0.013 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

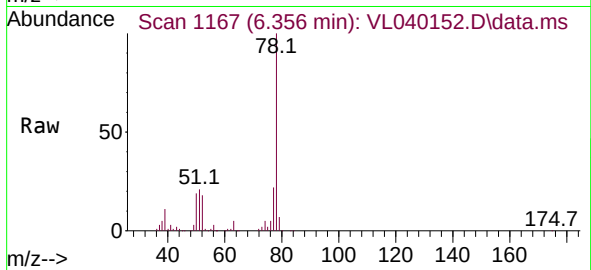
Tgt Ion:117 Resp: 8384
Ion Ratio Lower Upper
117 100
119 65.2 74.5 111.7#
121 21.0 25.4 38.0#





#36
Benzene
Concen: 2.500 ppbv
RT: 6.356 min Scan# 1171
Delta R.T. -0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

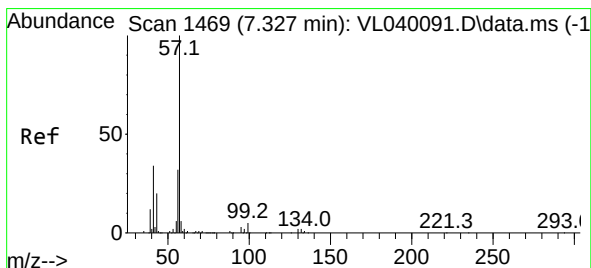
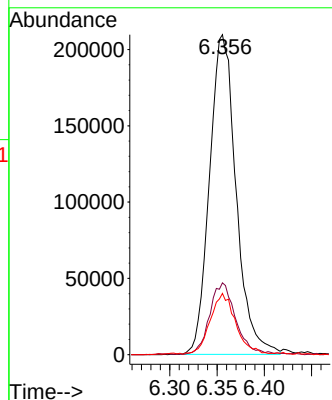
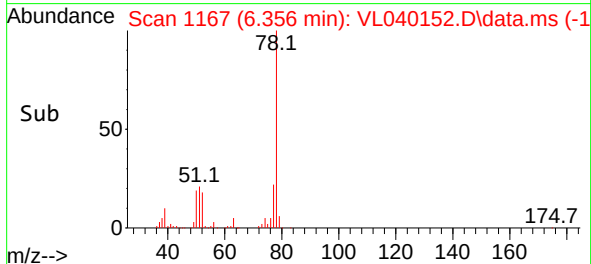
Instrument :
MSVOA_L
ClientSampled :
IA3



Tgt Ion: 78 Resp: 409584
Ion Ratio Lower Upper
78 100
77 22.3 18.1 27.1
50 18.6 15.6 23.4

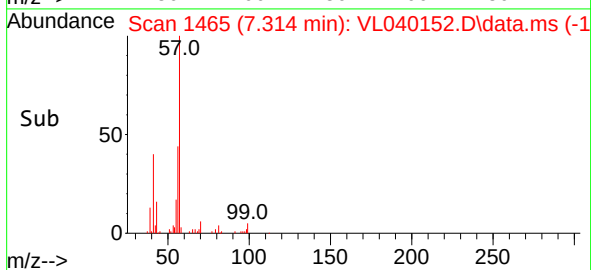
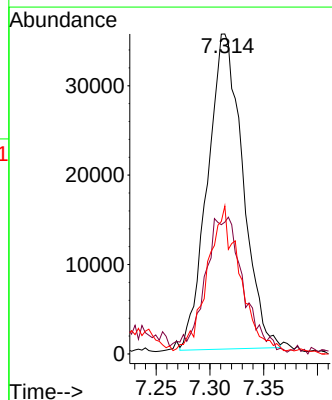
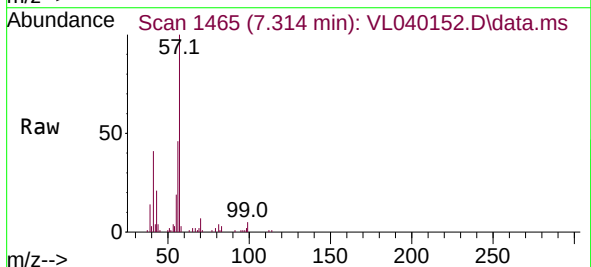
Manual Integrations
APPROVED

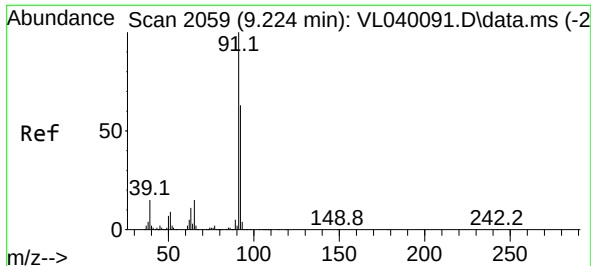
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#44
2,2,4-Trimethylpentane
Concen: 0.294 ppbv
RT: 7.314 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

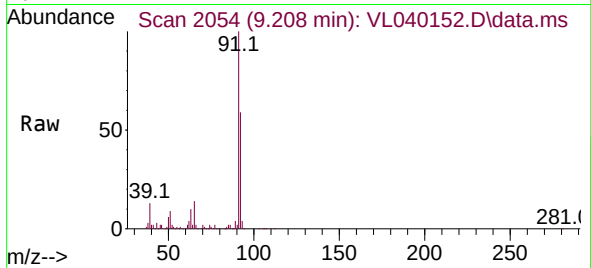
Tgt Ion: 57 Resp: 80139
Ion Ratio Lower Upper
57 100
41 45.8 27.1 40.7#
56 46.0 25.0 37.4#





#53
Toluene
Concen: 3.092 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. -0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

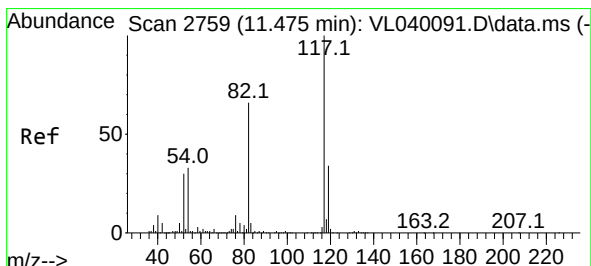
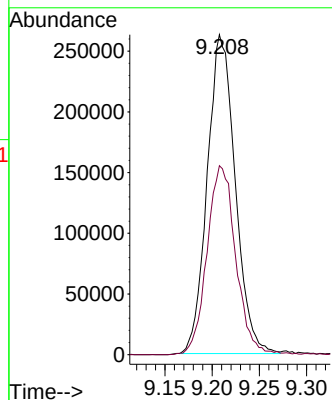
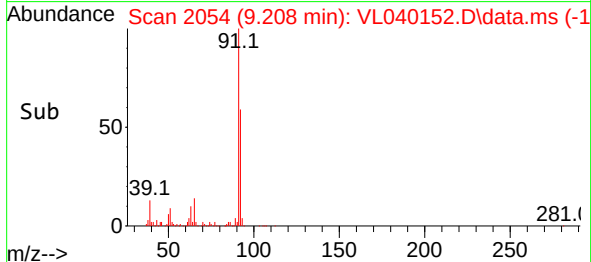
Instrument :
MSVOA_L
ClientSampleId :
IA3



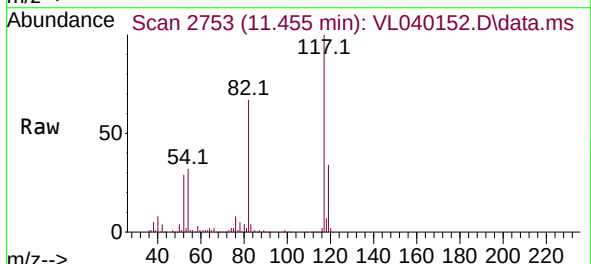
Tgt Ion: 91 Resp: 540154
Ion Ratio Lower Upper
91 100
92 61.0 48.3 72.5

Manual Integrations
APPROVED

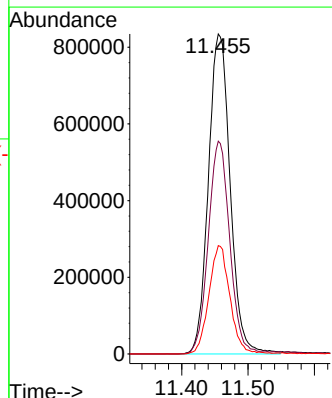
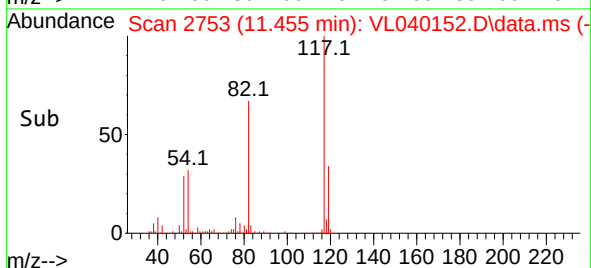
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023

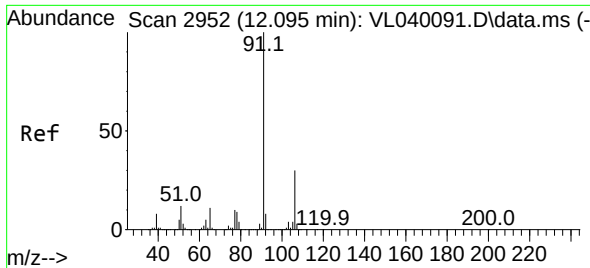


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2753
Delta R.T. -0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03



Tgt Ion:117 Resp: 1906352
Ion Ratio Lower Upper
117 100
82 65.9 54.4 81.6
119 32.9 26.8 40.2





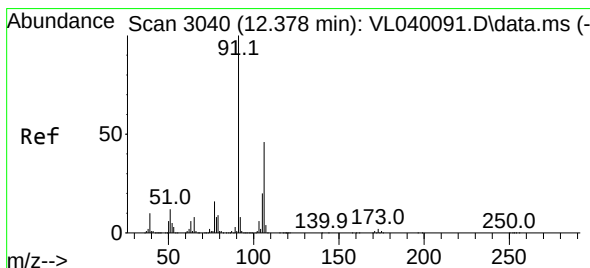
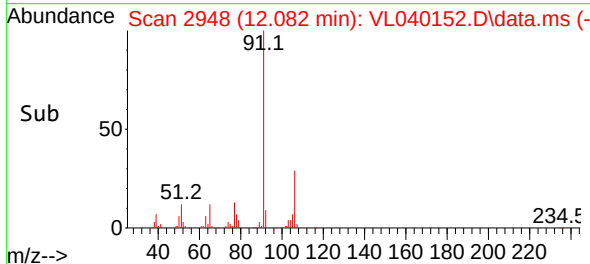
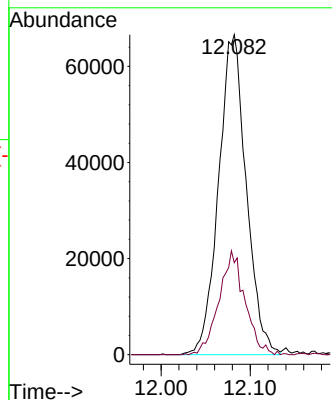
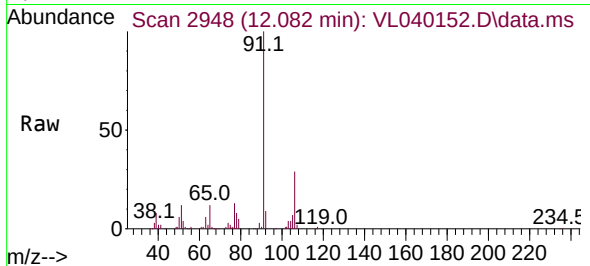
#58
Ethyl Benzene
Concen: 0.676 ppbv
RT: 12.082 min Scan# 2952
Delta R.T. 0.000 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 91 Resp: 14384
Ion Ratio Lower Upper
91 100
106 28.8 23.7 35.5

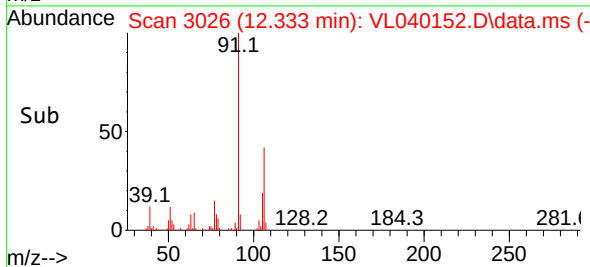
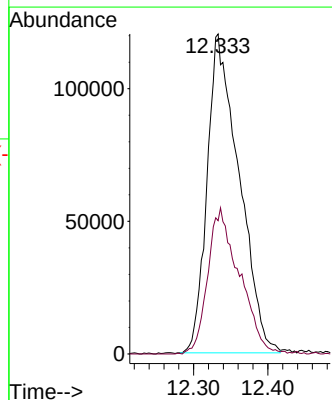
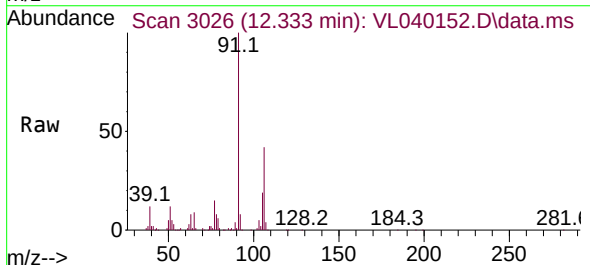
Manual Integrations
APPROVED

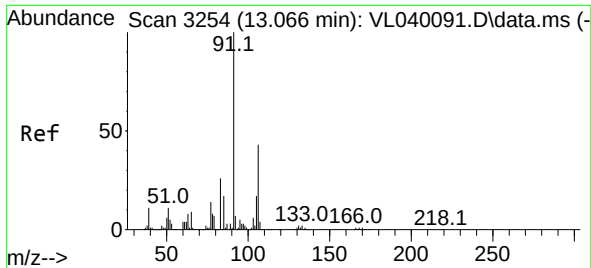
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#59
m/p-Xylene
Concen: 1.877 ppbv
RT: 12.333 min Scan# 3026
Delta R.T. -0.032 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Tgt Ion: 91 Resp: 359002
Ion Ratio Lower Upper
91 100
106 45.7 34.2 51.4





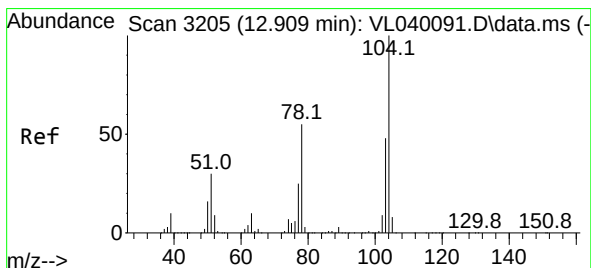
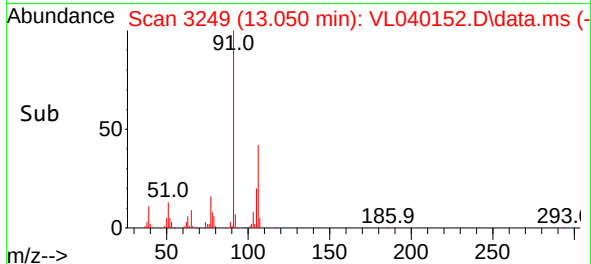
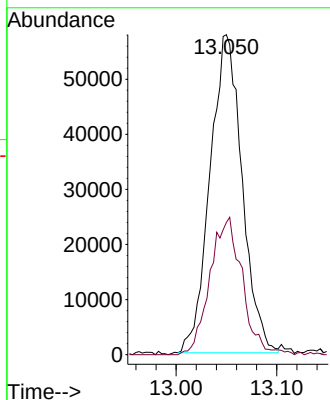
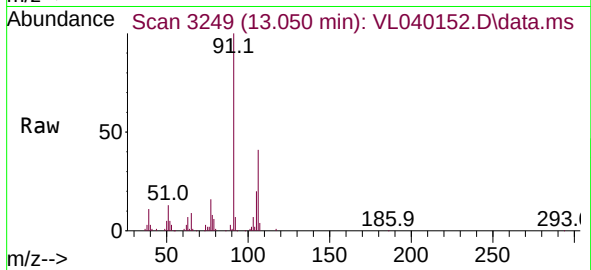
#60
o-Xylene
Concen: 0.705 ppbv
RT: 13.050 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 91 Resp: 128054
Ion Ratio Lower Upper
91 100
106 43.8 21.6 64.8

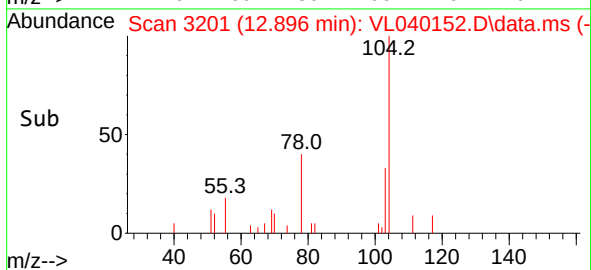
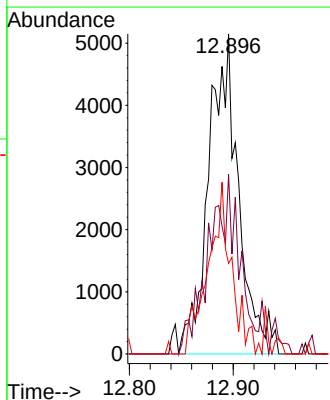
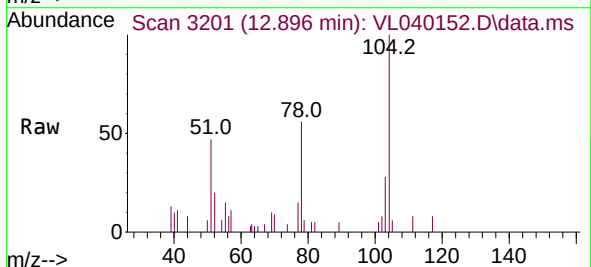
Manual Integrations
APPROVED

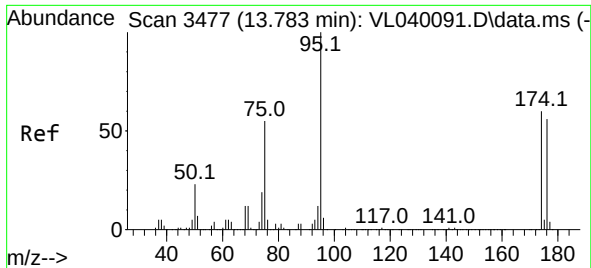
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#61
Styrene
Concen: 0.109 ppbv m
RT: 12.896 min Scan# 3201
Delta R.T. 0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

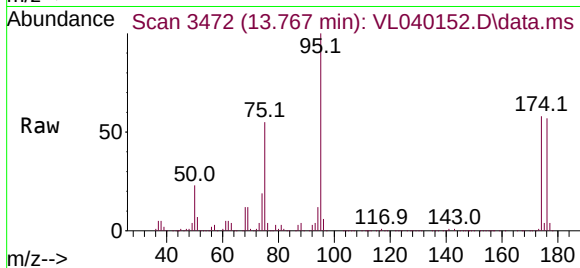
Tgt Ion:104 Resp: 10293
Ion Ratio Lower Upper
104 100
78 62.4 44.0 66.0
103 43.9 37.8 56.6





#68
1-Bromo-4-Fluorobenzene
Concen: 9.309 ppbv
RT: 13.767 min Scan# 3477
Delta R.T. -0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

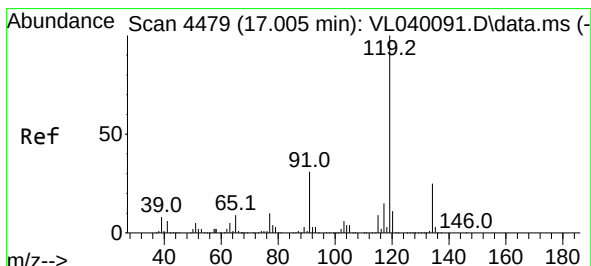
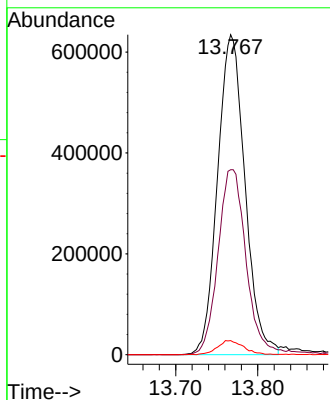
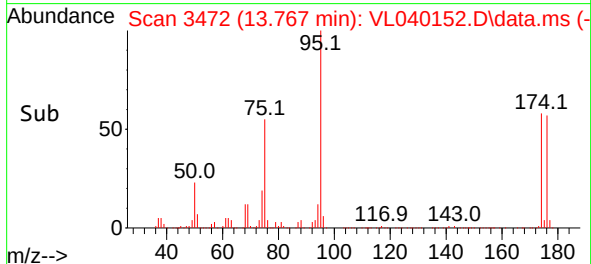
Instrument :
MSVOA_L
ClientSampleId :
IA3



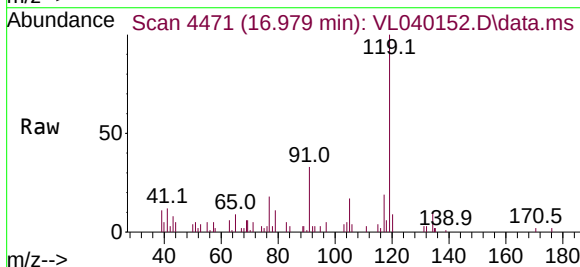
Tgt Ion: 95 Resp: 147487
Ion Ratio Lower Upper
95 100
174 60.1 47.7 71.5
175 4.4 3.4 5.2

Manual Integrations
APPROVED

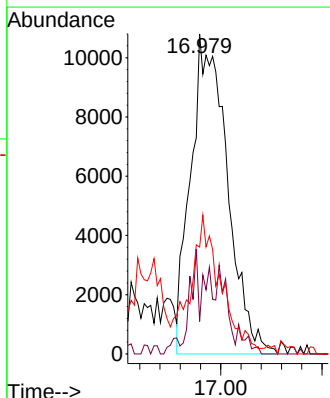
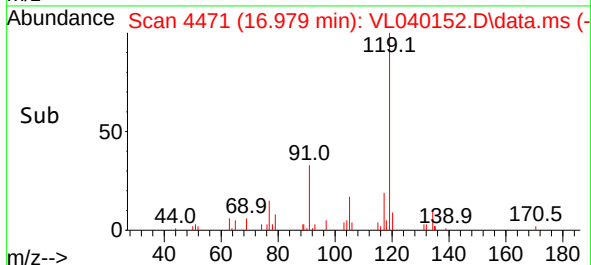
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023

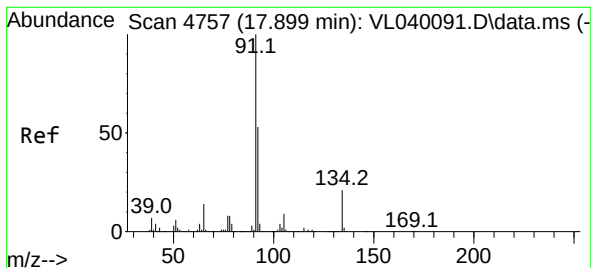


#69
p-Isopropyltoluene
Concen: 0.108 ppbv m
RT: 16.979 min Scan# 4471
Delta R.T. -0.010 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03



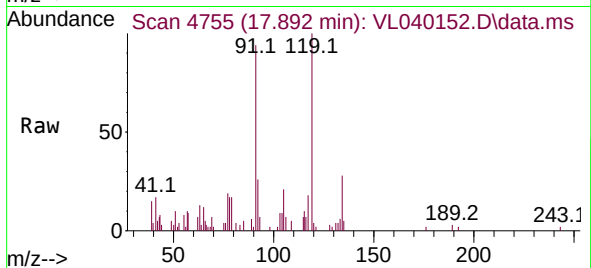
Tgt Ion:119 Resp: 26905
Ion Ratio Lower Upper
119 100
134 0.0 20.1 30.1#
91 37.8 25.0 37.4#





#70
n-Butylbenzene
Concen: 0.103 ppbv m
RT: 17.892 min Scan# 4755
Delta R.T. 0.010 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

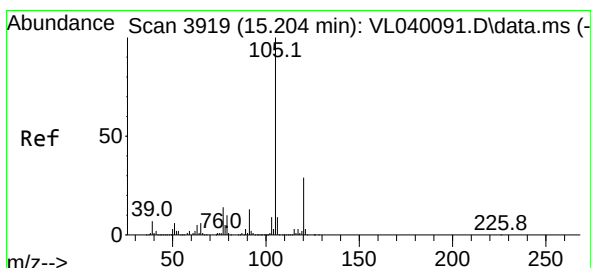
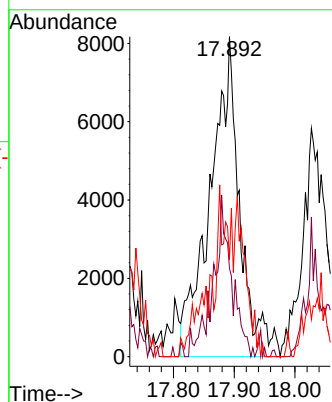
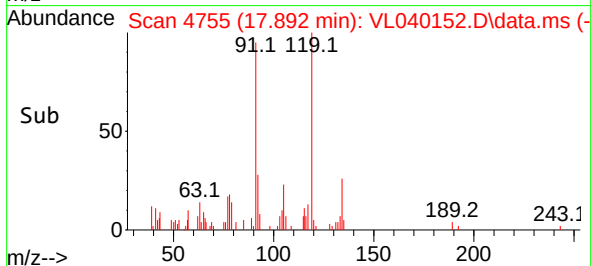
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 91 Resp: 27600
Ion Ratio Lower Upper
91 100
92 32.8 42.8 64.2
134 53.0 16.9 25.3

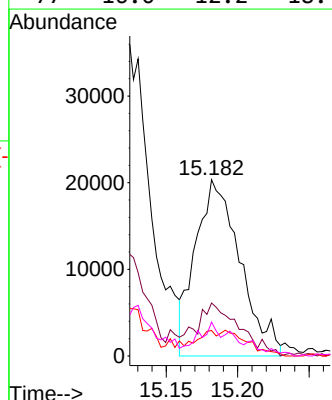
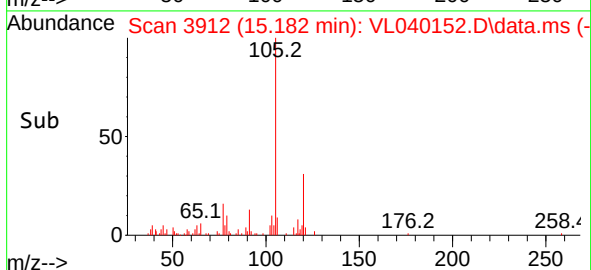
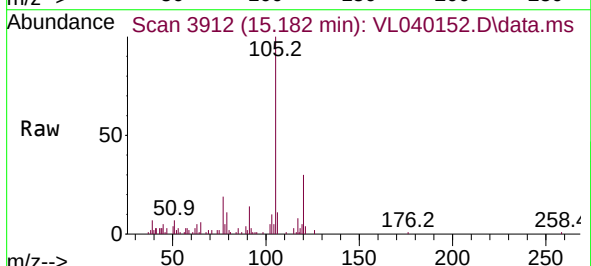
Manual Integrations
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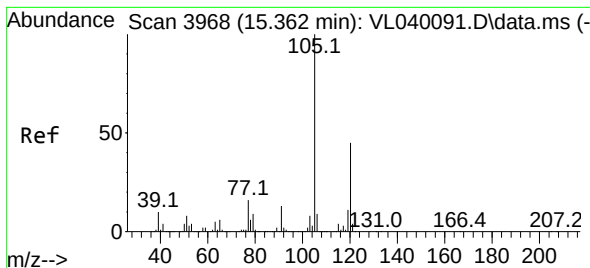
Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023



#72
4-Ethyltoluene
Concen: 0.219 ppbv m
RT: 15.182 min Scan# 3912
Delta R.T. -0.006 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Tgt Ion:105 Resp: 44195
Ion Ratio Lower Upper
105 100
120 31.3 23.1 34.7
91 17.2 11.2 16.8#
77 16.0 12.2 18.4





#73

1,3,5-Trimethylbenzene

Concen: 0.189 ppbv

RT: 15.342 min Scan# 3968

Delta R.T. -0.006 min

Lab File: VL040152.D

Acq: 6 Feb 2023 19:03

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tgt Ion:105 Resp: 3428

Ion Ratio Lower Upper

105 100

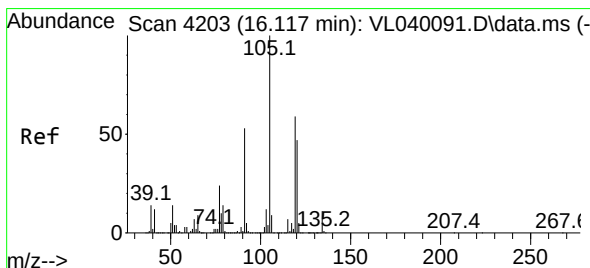
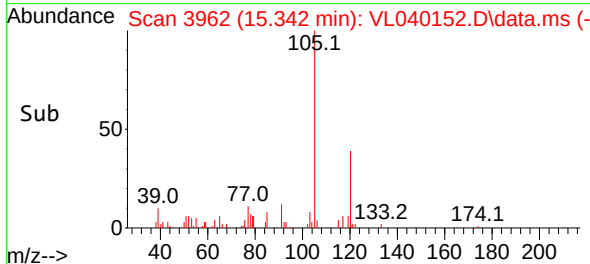
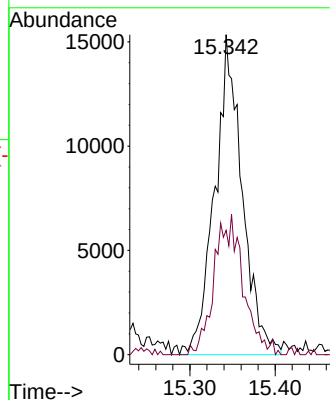
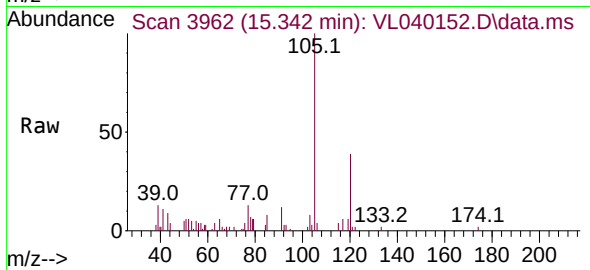
120 38.8 36.2 54.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2023

Supervised By :Mahesh Dadoda 02/08/2023



#74

1,2,4-Trimethylbenzene

Concen: 0.758 ppbv

RT: 16.101 min Scan# 4198

Delta R.T. 0.000 min

Lab File: VL040152.D

Acq: 6 Feb 2023 19:03

Tgt Ion:105 Resp: 152327

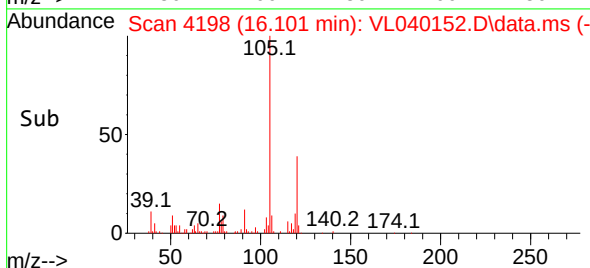
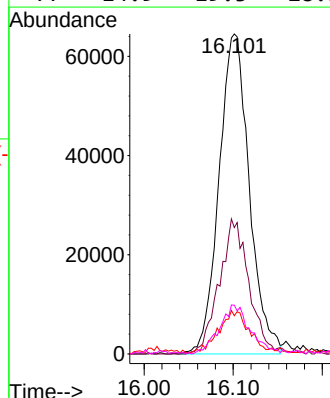
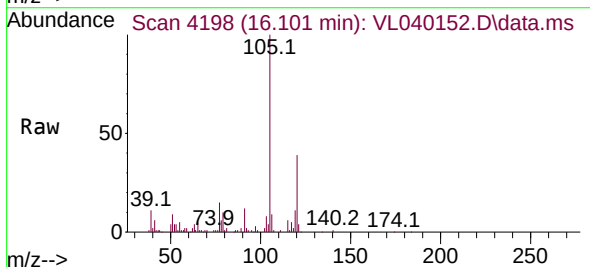
Ion Ratio Lower Upper

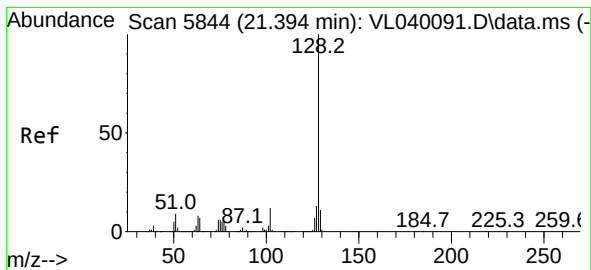
105 100

120 39.5 38.0 57.0

91 11.7 42.1 63.1#

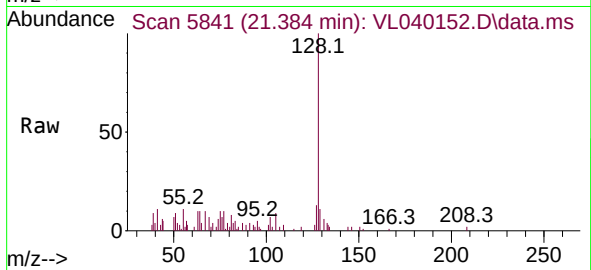
77 14.9 19.3 28.9#





#79
Naphthalene
Concen: 0.246 ppbv m
RT: 21.384 min Scan# 5841
Delta R.T. 0.006 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:128 Resp: 2835
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 11.2 8.8 13.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2023
Supervised By :Mahesh Dadoda 02/08/2023

