

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040768.D
 Acq On : 11 Oct 2023 23:10
 Operator : SY/MD
 Sample : 04827-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/12/2023
 Supervised By :Mahesh Dadoda 10/16/2023

Quant Time: Oct 12 00:29:19 2023

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

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

QLast Update : Thu Oct 12 00:21:08 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	912140	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2516303	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2254386	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1643574	9.908	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.761	85	81391	0.507	ppbv	99
3) Chlorodifluoromethane	2.709	51	37241m	0.278	ppbv	
4) Chloromethane	2.844	50	25063	0.473	ppbv	94
9) Propene	2.735	41	69958m	1.405	ppbv	
10) Heptane	7.587	43	22333m	0.179	ppbv	
11) Trichlorofluoromethane	3.587	101	28225	0.228	ppbv	99
13) Ethanol	3.279	45	5538226	492.749	ppbv	99
15) Acetone	3.491	43	1027127	10.892	ppbv	97
19) Isopropyl Alcohol	3.619	45	20877238	343.929	ppbv #	38
20) Methylene Chloride	3.954	84	256813	6.538	ppbv	98
25) Ethyl Acetate	5.230	43	228937	1.108	ppbv #	86
26) Hexane	5.233	57	294584	3.120	ppbv #	45
27) Carbon Disulfide	4.147	76	4252057	40.812	ppbv	99
29) Chloroform	5.288	83	33783	0.247	ppbv	99
30) Cyclohexane	6.619	84	11055m	0.138	ppbv	
34) 2-Butanone	4.809	43	53940	0.474	ppbv	93
35) Carbon Tetrachloride	6.507	117	18571m	0.131	ppbv	
36) Benzene	6.385	78	49872	0.258	ppbv	93
44) 2,2,4-Trimethylpentane	7.336	57	41435	0.127	ppbv #	86
52) Tetrachloroethene	10.613	164	10441m	0.133	ppbv	
53) Toluene	9.230	91	169420	0.736	ppbv	100
58) Ethyl Benzene	12.092	91	55885	0.197	ppbv	93
59) m/p-Xylene	12.349	91	151948m	0.650	ppbv	
60) o-Xylene	13.063	91	50674	0.228	ppbv	96
74) 1,2,4-Trimethylbenzene	16.111	105	51555	0.206	ppbv #	77

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

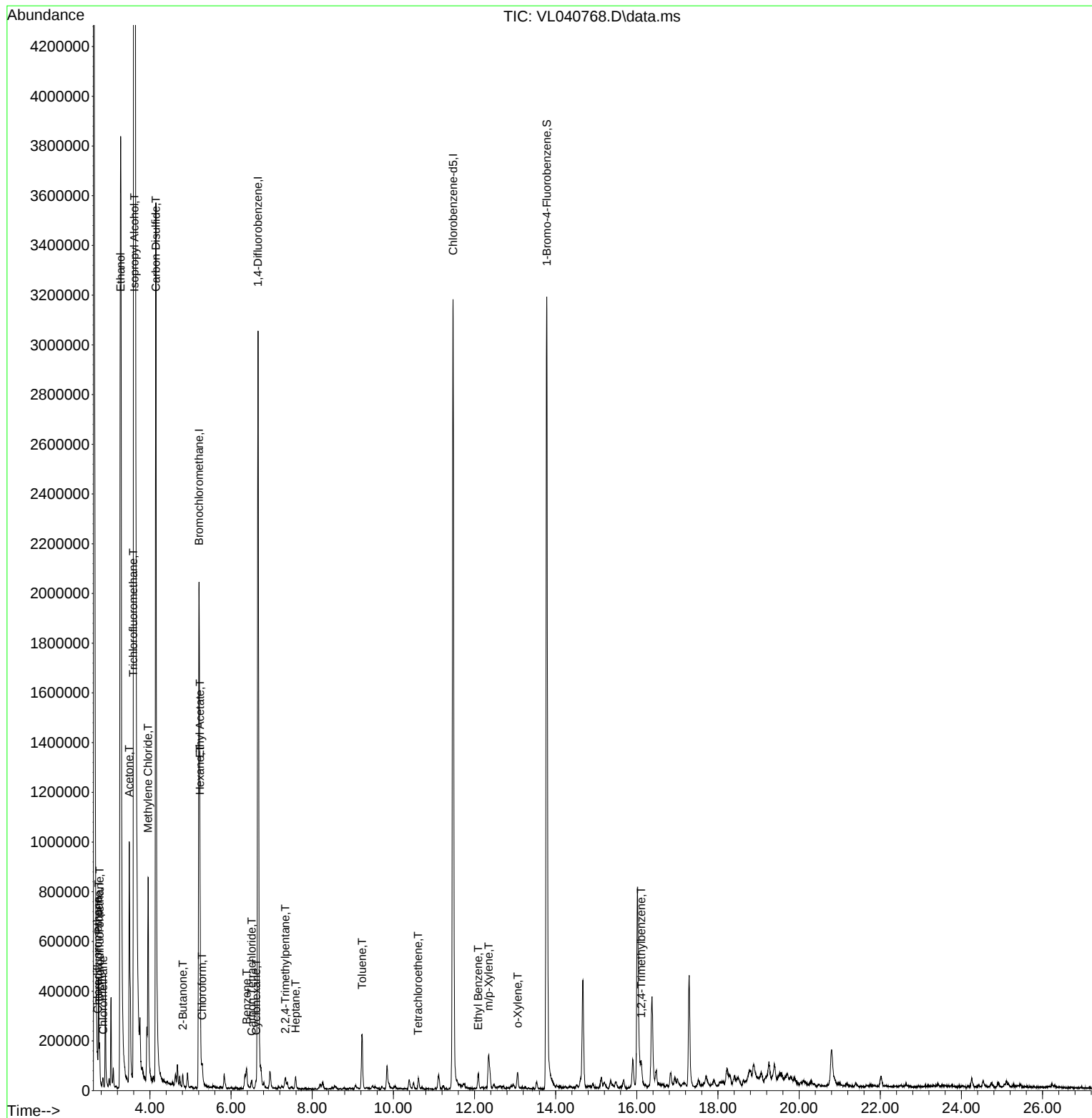
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
Data File : VL040768.D
Acq On : 11 Oct 2023 23:10
Operator : SY/MD
Sample : 04827-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

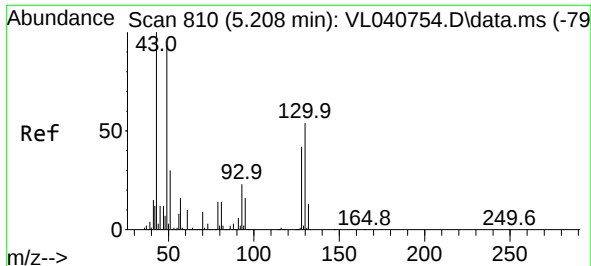
Instrument :
MSVOA_L
ClientSampleId :
IA4

Quant Time: Oct 12 00:29:19 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 Oct 12 00:21:08 2023
Response via : Initial Calibration

Manual Integrations
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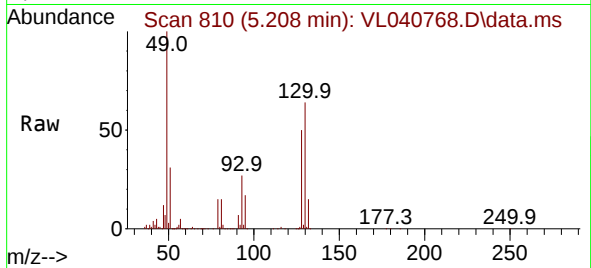
Reviewed By : Semsettin Yesilyurt 10/12/2023
Supervised By : Mahesh Dadoda 10/16/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.000 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

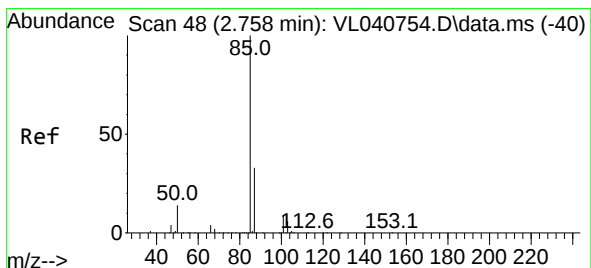
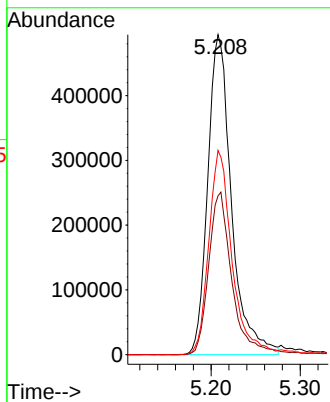
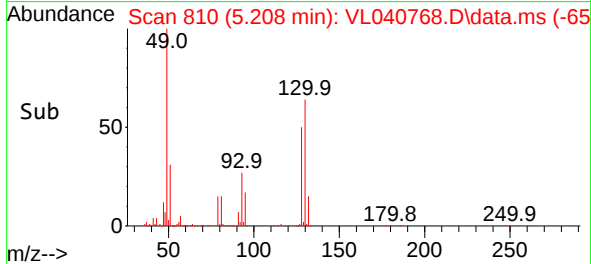
Instrument :
MSVOA_L
ClientSampleId :
IA4



Tgt Ion: 49 Resp: 912140
Ion Ratio Lower Upper
49 100
128 50.8 23.9 71.7
130 64.3 30.7 92.1

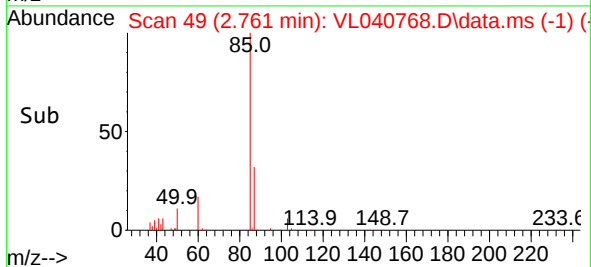
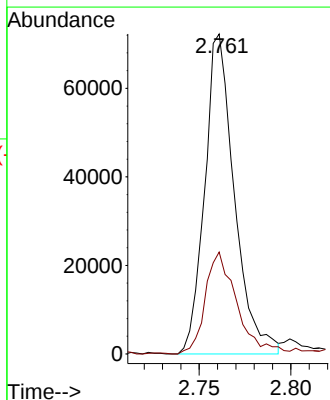
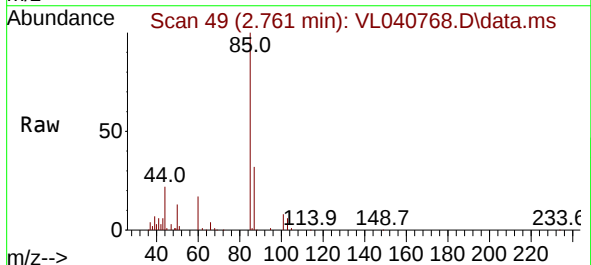
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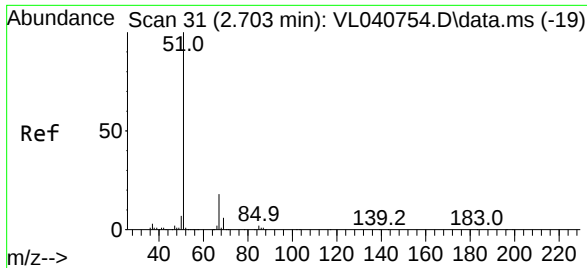
Reviewed By :Semsettin Yesilyurt 10/12/2023
Supervised By :Mahesh Dadoda 10/16/2023



#2
Dichlorodifluoromethane
Concen: 0.507 ppbv
RT: 2.761 min Scan# 49
Delta R.T. 0.003 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

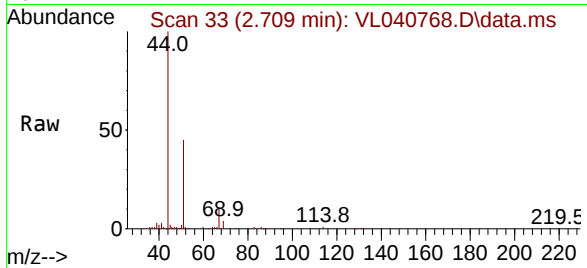
Tgt Ion: 85 Resp: 81391
Ion Ratio Lower Upper
85 100
87 31.8 26.0 39.0





#3
Chlorodifluoromethane
Concen: 0.278 ppbv m
RT: 2.709 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

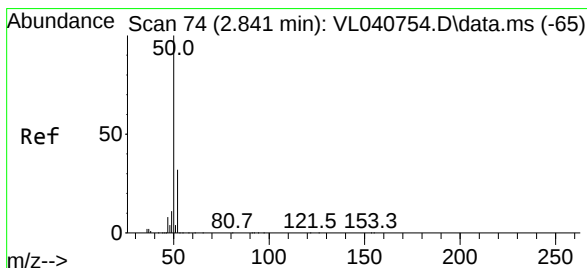
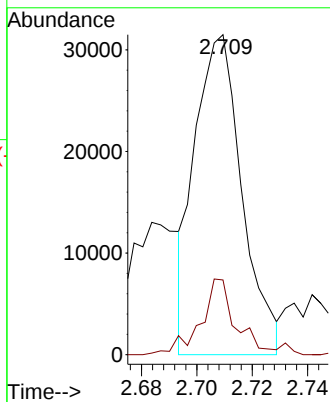
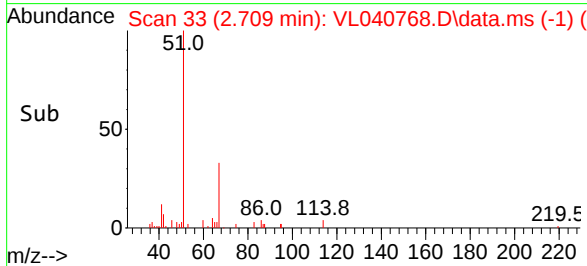
Instrument :
MSVOA_L
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IA4



Tgt Ion: 51 Resp: 3724
Ion Ratio Lower Upper
51 100
67 1.0 13.8 20.6

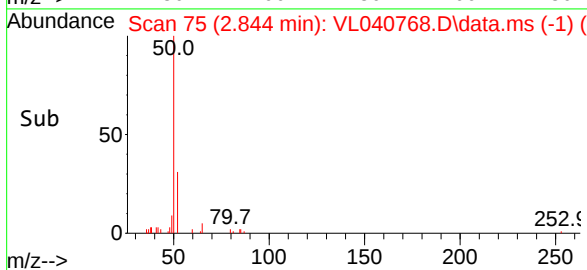
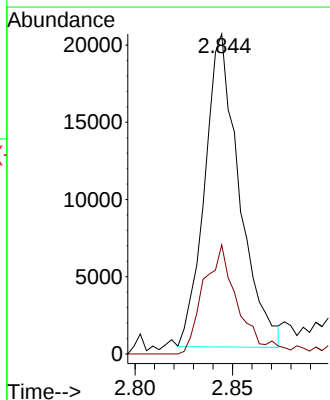
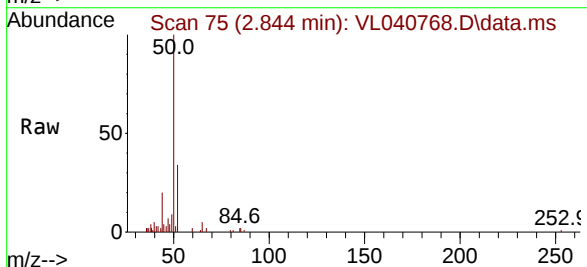
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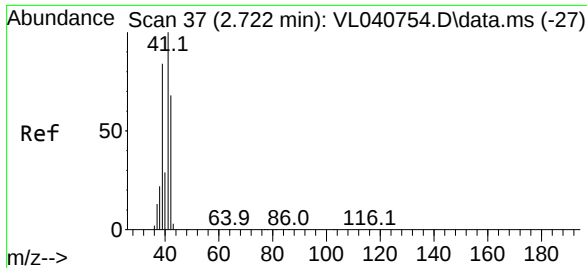
Reviewed By :Semsettin Yesilyurt 10/12/2023
Supervised By :Mahesh Dadoda 10/16/2023



#4
Chloromethane
Concen: 0.473 ppbv
RT: 2.844 min Scan# 75
Delta R.T. 0.003 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

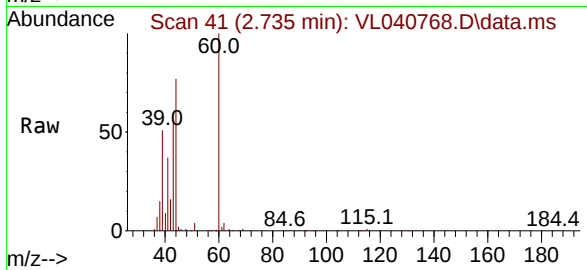
Tgt Ion: 50 Resp: 25063
Ion Ratio Lower Upper
50 100
52 35.0 25.3 37.9





#9
Propene
Concen: 1.405 ppbv m
RT: 2.735 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

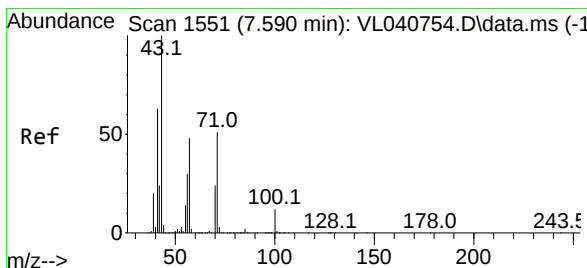
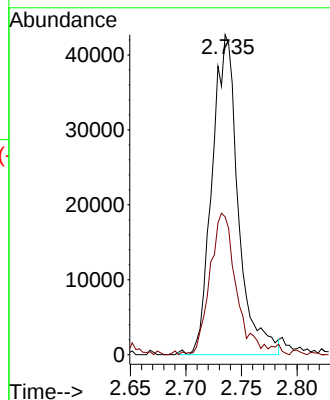
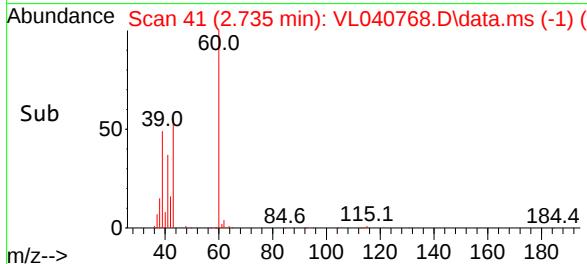
Instrument :
MSVOA_L
ClientSampleId :
IA4



Tgt Ion: 41 Resp: 69958
Ion Ratio Lower Upper
41 100
42 114.4 57.1 85.7

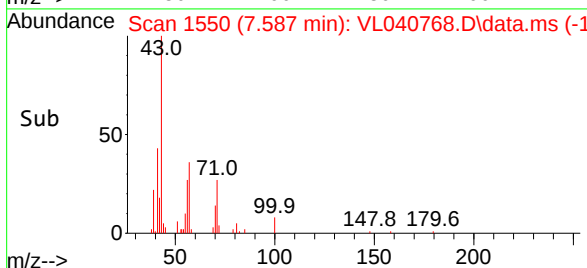
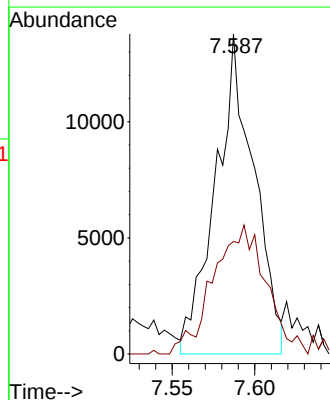
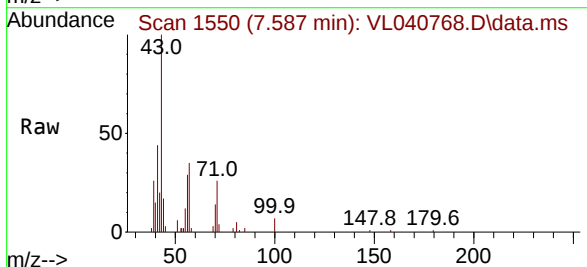
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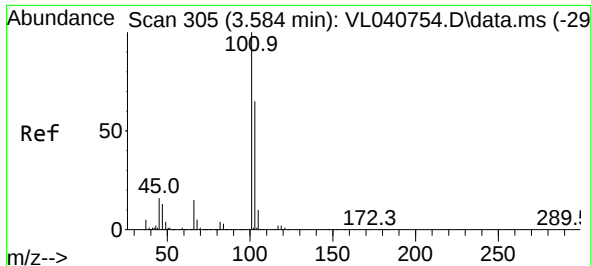
Reviewed By :Semsettin Yesilyurt 10/12/2023
Supervised By :Mahesh Dadoda 10/16/2023



#10
Heptane
Concen: 0.179 ppbv m
RT: 7.587 min Scan# 1550
Delta R.T. -0.003 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

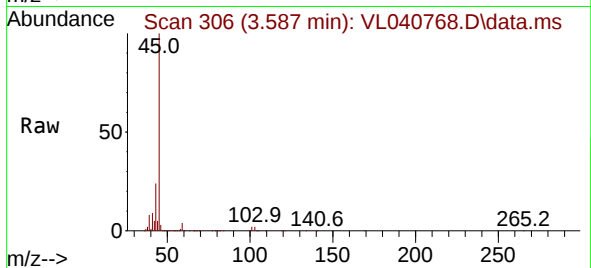
Tgt Ion: 43 Resp: 22333
Ion Ratio Lower Upper
43 100
57 56.7 40.0 60.0





#11
Trichlorofluoromethane
Concen: 0.228 ppbv
RT: 3.587 min Scan# 305
Delta R.T. 0.003 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

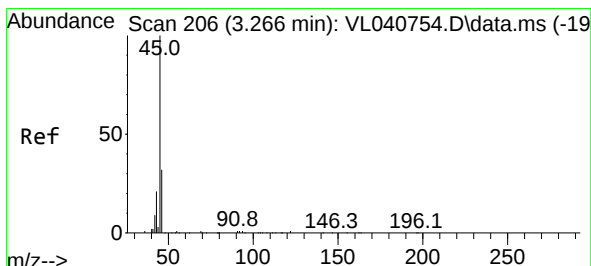
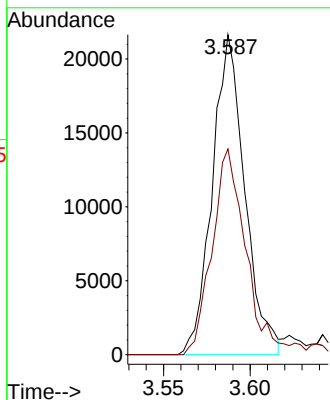
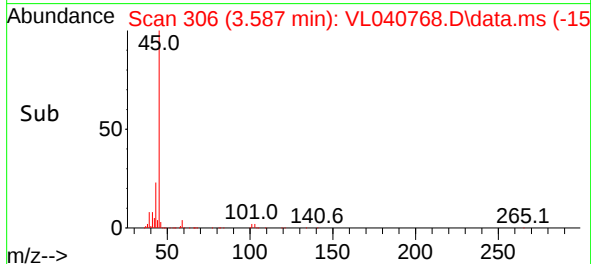
Instrument :
MSVOA_L
ClientSampleId :
IA4



Tgt Ion:101 Resp: 28225
Ion Ratio Lower Upper
101 100
103 64.3 52.2 78.2

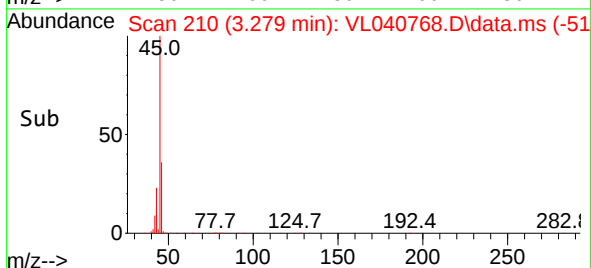
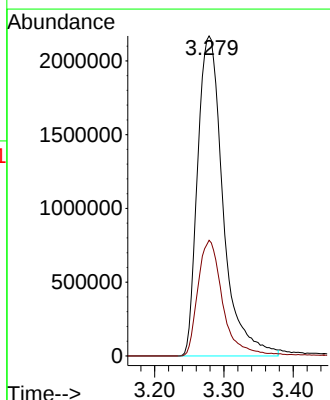
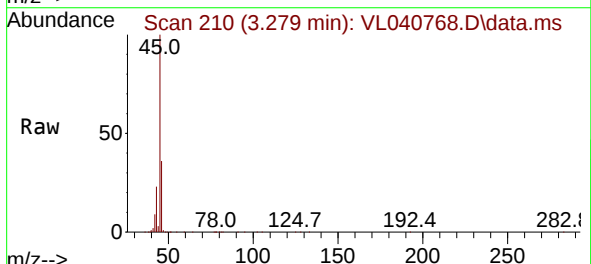
Manual Integrations
APPROVED

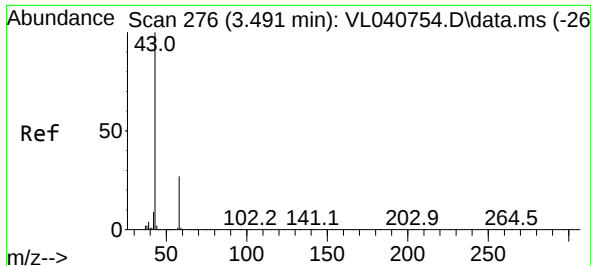
Reviewed By :Semsettin Yesilyurt 10/12/2023
Supervised By :Mahesh Dadoda 10/16/2023



#13
Ethanol
Concen: 492.749 ppbv
RT: 3.279 min Scan# 210
Delta R.T. 0.013 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

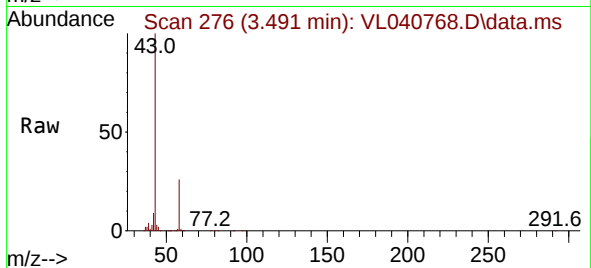
Tgt Ion: 45 Resp: 5538226
Ion Ratio Lower Upper
45 100
46 35.8 14.6 58.2





#15
Acetone
Concen: 10.892 ppbv
RT: 3.491 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

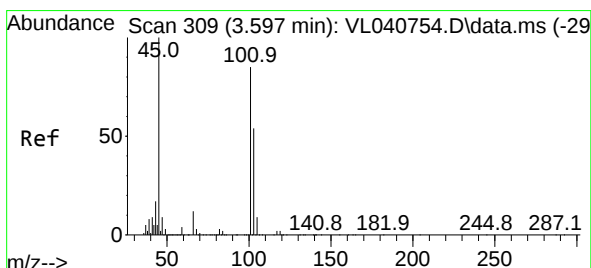
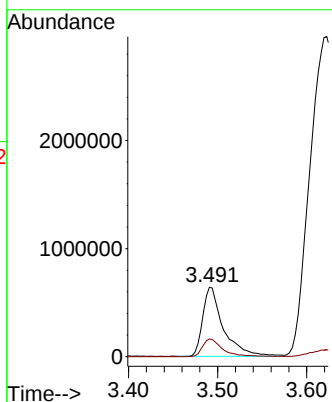
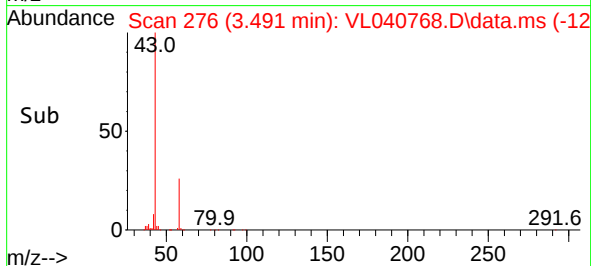
Instrument :
MSVOA_L
ClientSampleId :
IA4



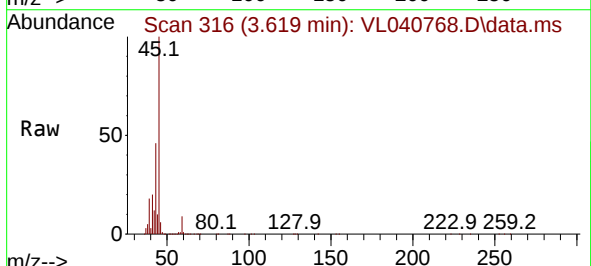
Tgt Ion: 43 Resp: 102712
Ion Ratio Lower Upper
43 100
58 25.3 21.6 32.4

Manual Integrations
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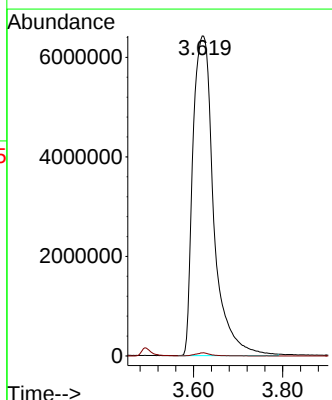
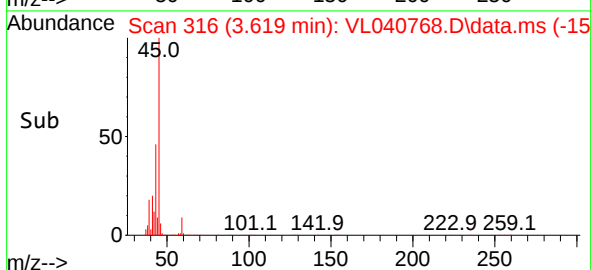
Reviewed By :Semsettin Yesilyurt 10/12/2023
Supervised By :Mahesh Dadoda 10/16/2023

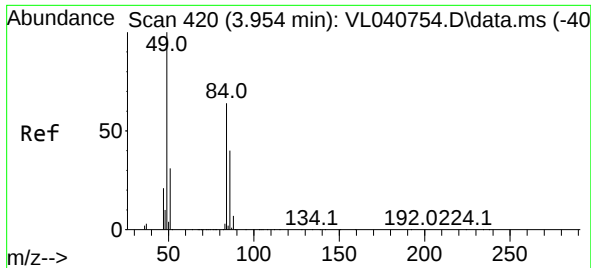


#19
Isopropyl Alcohol
Concen: 343.929 ppbv
RT: 3.619 min Scan# 316
Delta R.T. 0.022 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10



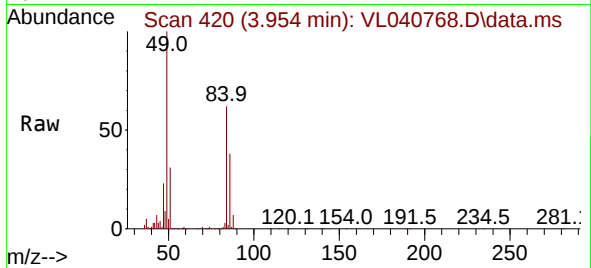
Tgt Ion: 45 Resp:20877238
Ion Ratio Lower Upper
45 100
58 0.8 30.3 45.5#





#20
Methylene Chloride
Concen: 6.538 ppbv
RT: 3.954 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

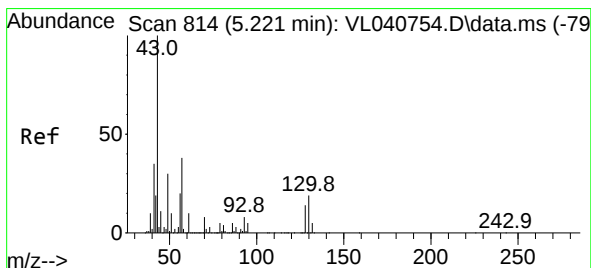
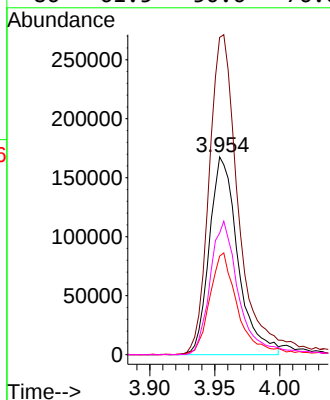
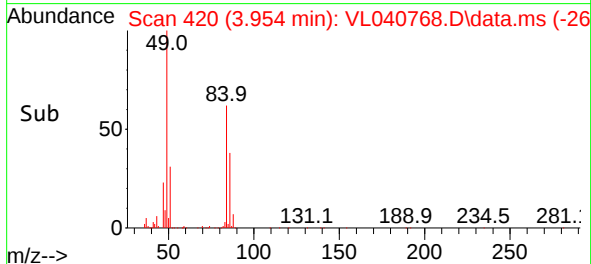
Instrument :
MSVOA_L
ClientSampleId :
IA4



Tgt Ion: 84 Resp: 25681
Ion Ratio Lower Upper
84 100
49 160.3 125.6 188.4
51 49.5 38.9 58.3
86 61.5 50.6 76.0

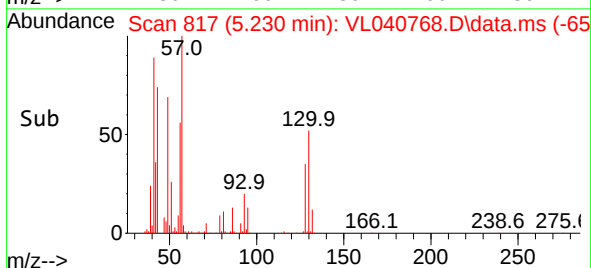
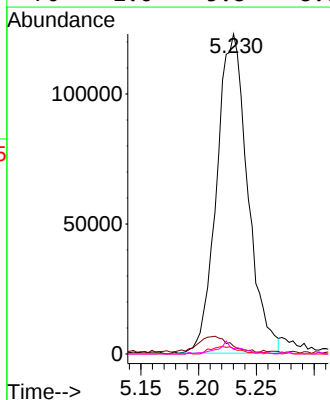
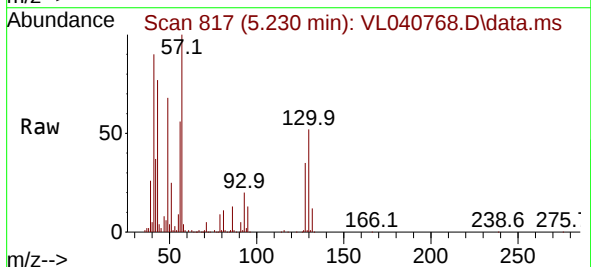
Manual Integrations
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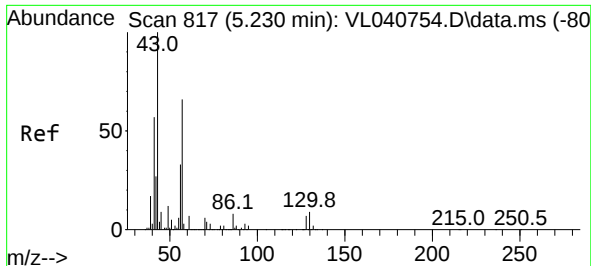
Reviewed By :Semsettin Yesilyurt 10/12/2023
Supervised By :Mahesh Dadoda 10/16/2023



#25
Ethyl Acetate
Concen: 1.108 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.010 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

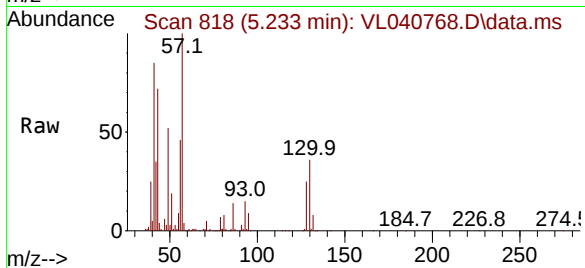
Tgt Ion: 43 Resp: 228937
Ion Ratio Lower Upper
43 100
45 7.0 8.2 12.4#
61 2.4 8.2 12.2#
70 2.6 5.8 8.6#





#26
Hexane
Concen: 3.120 ppbv
RT: 5.233 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

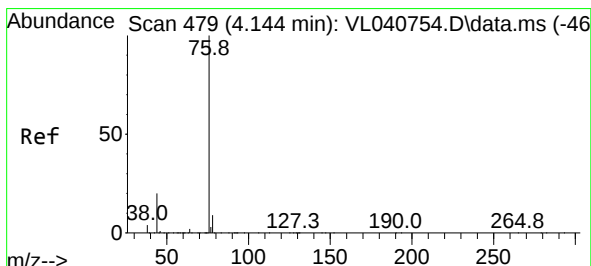
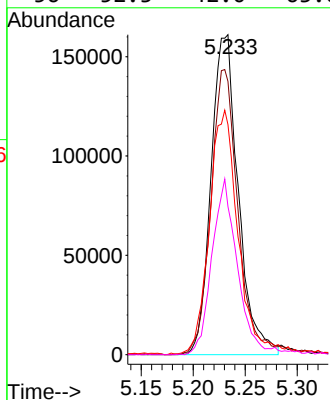
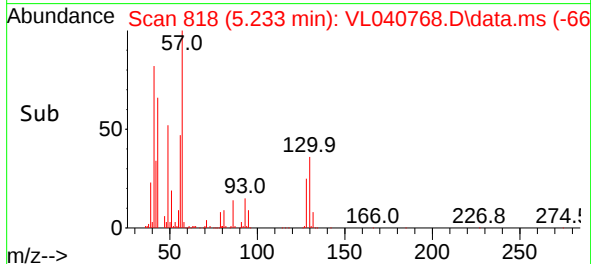
Instrument :
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ClientSampleId :
IA4



Tgt Ion: 57 Resp: 294584
Ion Ratio Lower Upper
57 100
41 90.2 71.4 107.2
43 82.2 182.3 273.5
56 52.3 42.0 63.0

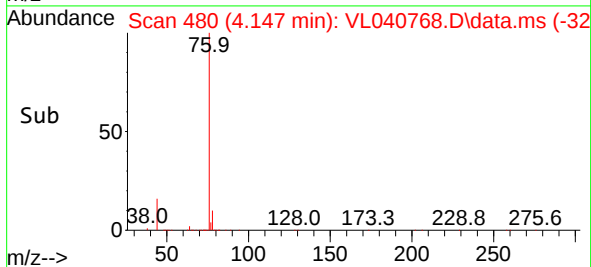
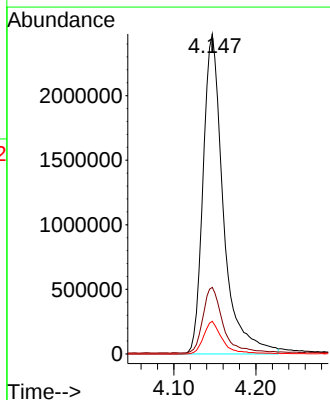
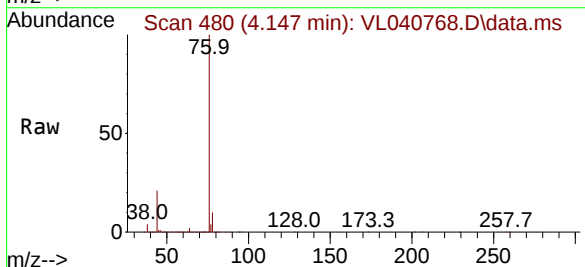
Manual Integrations
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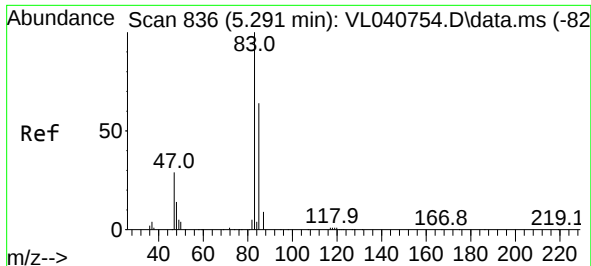
Reviewed By :Semsettin Yesilyurt 10/12/2023
Supervised By :Mahesh Dadoda 10/16/2023



#27
Carbon Disulfide
Concen: 40.812 ppbv
RT: 4.147 min Scan# 480
Delta R.T. 0.003 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

Tgt Ion: 76 Resp: 4252057
Ion Ratio Lower Upper
76 100
44 21.1 16.6 25.0
78 9.7 7.8 11.6





#29

Chloroform

Concen: 0.247 ppbv

RT: 5.288 min Scan# 835

Delta R.T. -0.003 min

Lab File: VL040768.D

Acq: 11 Oct 2023 23:10

Instrument :

MSVOA_L

ClientSampleId :

IA4

Tgt Ion: 83 Resp: 3378

Ion Ratio Lower Upper

83 100

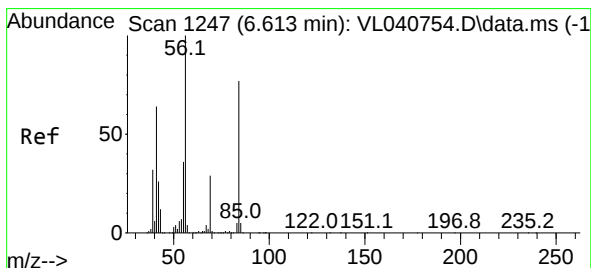
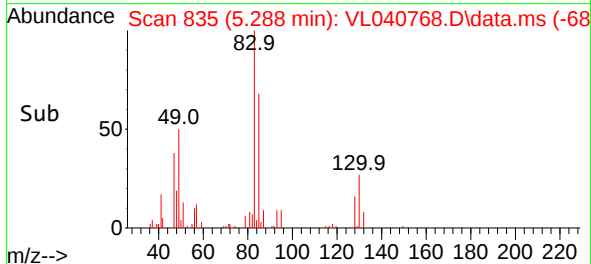
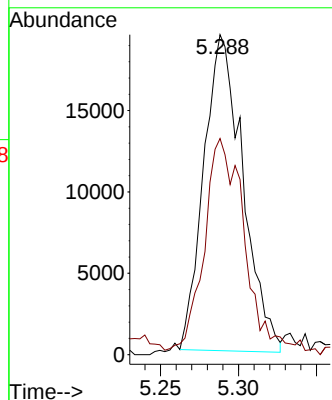
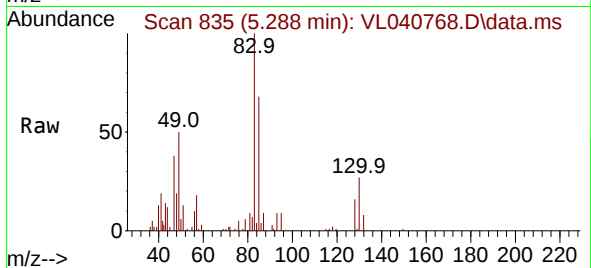
85 65.2 51.3 76.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/12/2023

Supervised By :Mahesh Dadoda 10/16/2023



#30

Cyclohexane

Concen: 0.138 ppbv m

RT: 6.619 min Scan# 1249

Delta R.T. 0.006 min

Lab File: VL040768.D

Acq: 11 Oct 2023 23:10

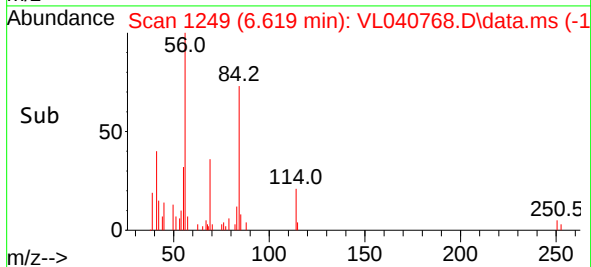
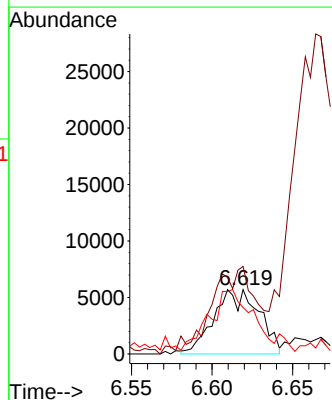
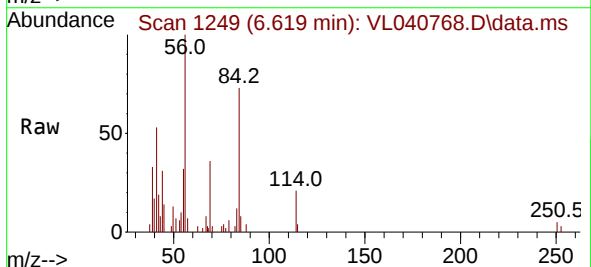
Tgt Ion: 84 Resp: 11055

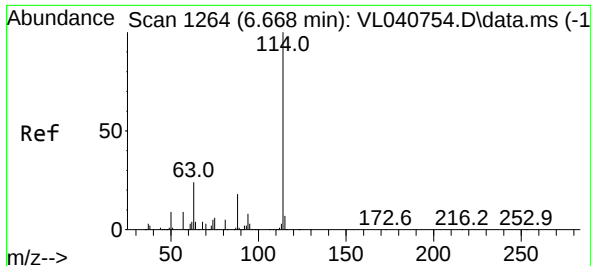
Ion Ratio Lower Upper

84 100

56 0.0 110.3 165.5#

41 120.8 67.4 101.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.664 min Scan# 114

Delta R.T. -0.003 min

Lab File: VL040768.D

Acq: 11 Oct 2023 23:10

Instrument :

MSVOA_L

ClientSampleId :

IA4

Tgt Ion:114 Resp: 251630

Ion Ratio Lower Upper

114 100

63 23.5 19.8 29.6

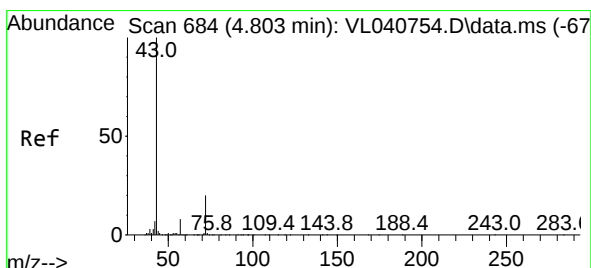
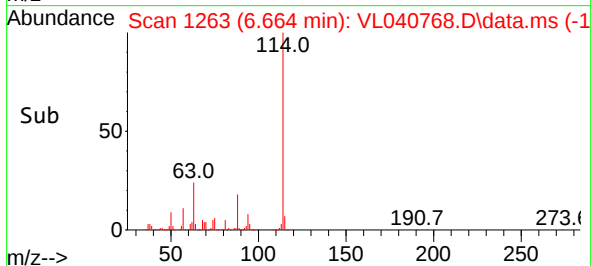
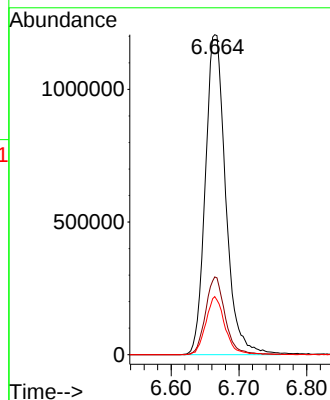
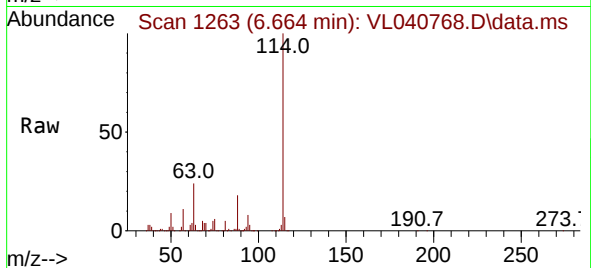
88 17.2 14.2 21.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/12/2023

Supervised By :Mahesh Dadoda 10/16/2023



#34

2-Butanone

Concen: 0.474 ppbv

RT: 4.809 min Scan# 686

Delta R.T. 0.006 min

Lab File: VL040768.D

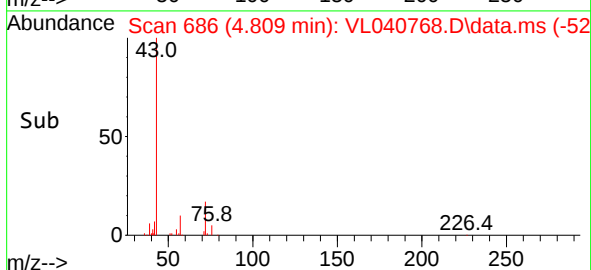
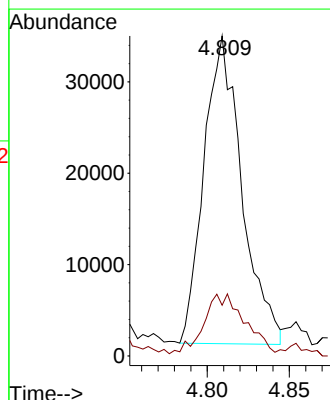
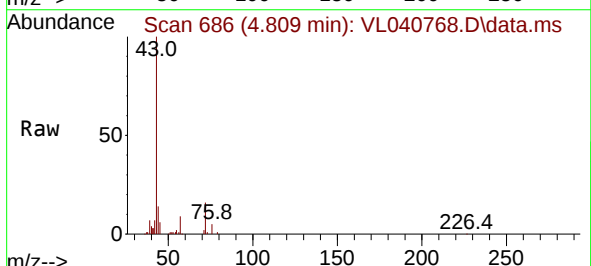
Acq: 11 Oct 2023 23:10

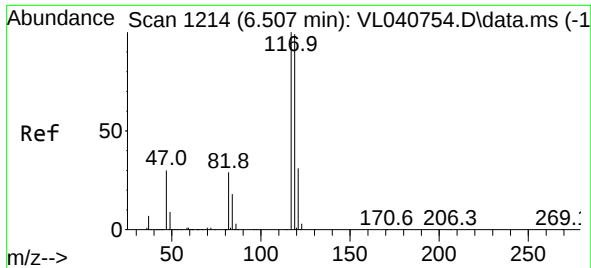
Tgt Ion: 43 Resp: 53940

Ion Ratio Lower Upper

43 100

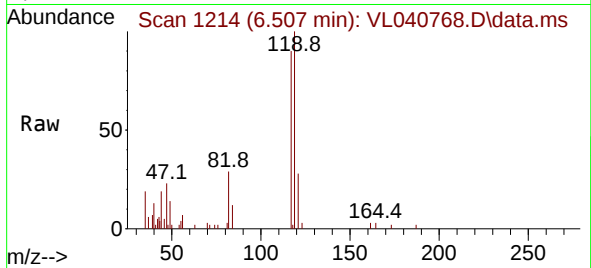
72 24.4 16.8 25.2





#35
Carbon Tetrachloride
Concen: 0.131 ppbv m
RT: 6.507 min Scan# 117
Delta R.T. -0.000 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

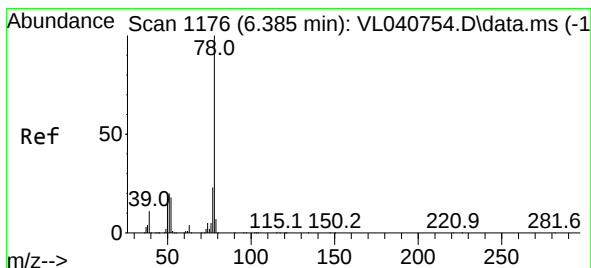
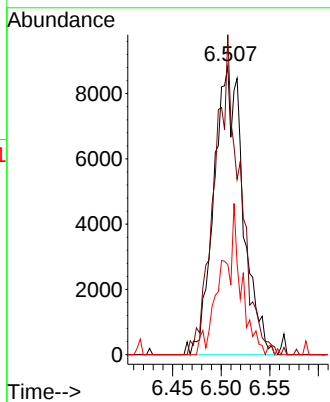
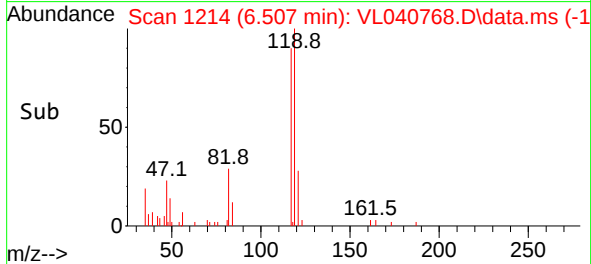
Instrument :
MSVOA_L
ClientSampleId :
IA4



Tgt Ion: 117 Resp: 1857
Ion Ratio Lower Upper
117 100
119 110.9 79.4 119.0
121 31.2 25.0 37.4

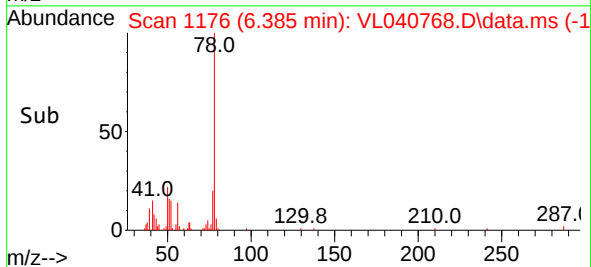
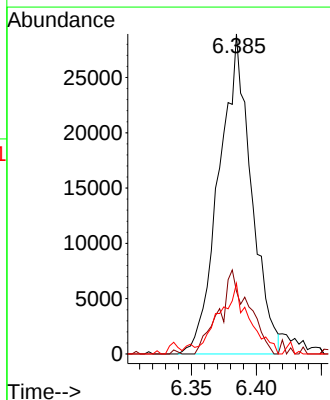
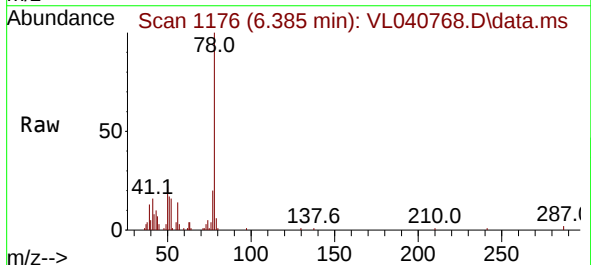
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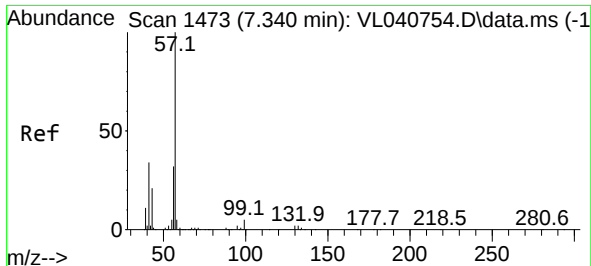
Reviewed By :Semsettin Yesilyurt 10/12/2023
Supervised By :Mahesh Dadoda 10/16/2023



#36
Benzene
Concen: 0.258 ppbv
RT: 6.385 min Scan# 1176
Delta R.T. -0.000 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

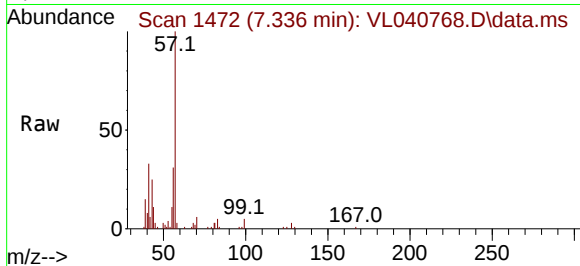
Tgt Ion: 78 Resp: 49872
Ion Ratio Lower Upper
78 100
77 19.6 18.4 27.6
50 22.0 15.0 22.4





#44
2,2,4-Trimethylpentane
Concen: 0.127 ppbv
RT: 7.336 min Scan# 1473
Delta R.T. -0.003 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

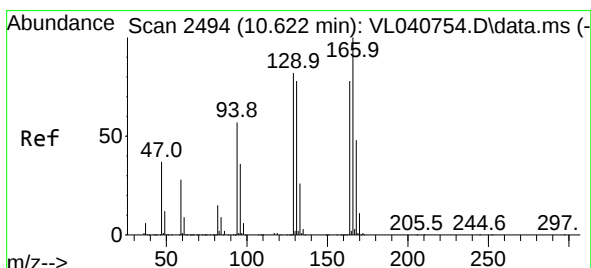
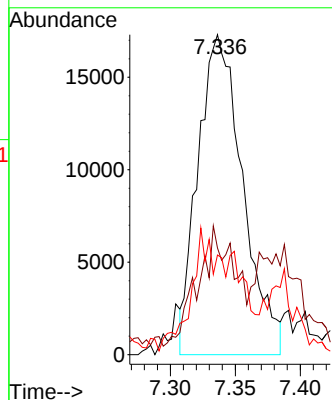
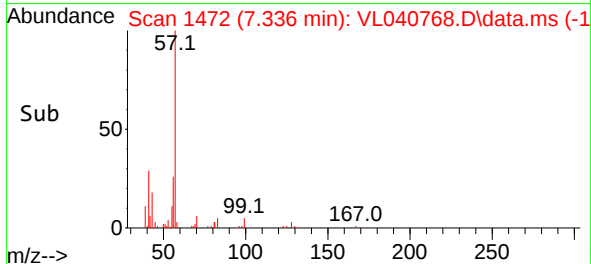
Instrument :
MSVOA_L
ClientSampleId :
IA4



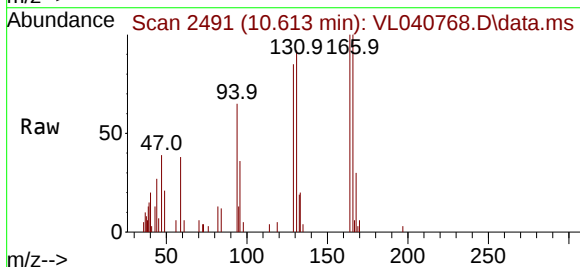
Tgt Ion: 57 Resp: 4143
Ion Ratio Lower Upper
57 100
41 37.9 27.4 41.0
56 43.1 25.0 37.6

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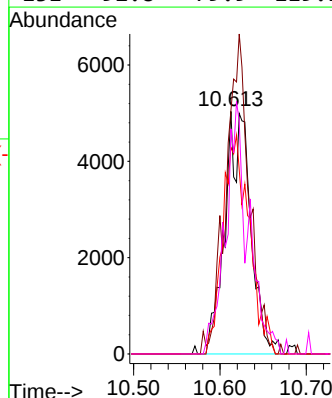
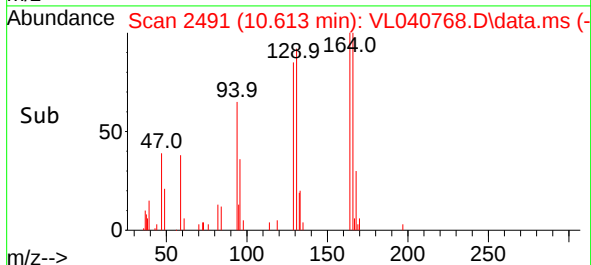
Reviewed By :Semsettin Yesilyurt 10/12/2023
Supervised By :Mahesh Dadoda 10/16/2023

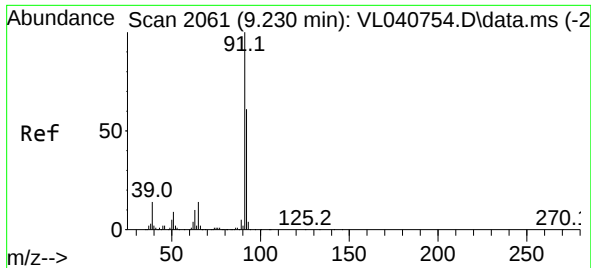


#52
Tetrachloroethene
Concen: 0.133 ppbv m
RT: 10.613 min Scan# 2491
Delta R.T. -0.010 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10



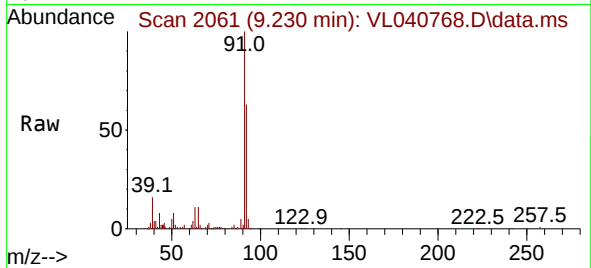
Tgt Ion:164 Resp: 10441
Ion Ratio Lower Upper
164 100
166 100.4 102.4 153.6#
129 85.2 84.2 126.4
131 92.8 79.9 119.9





#53
Toluene
Concen: 0.736 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. -0.000 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

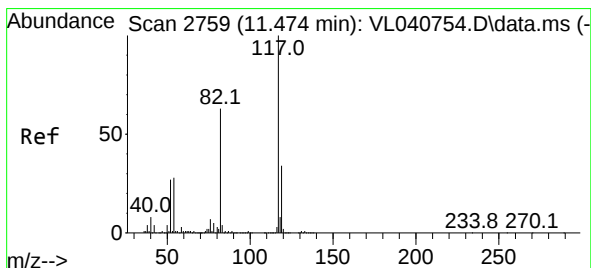
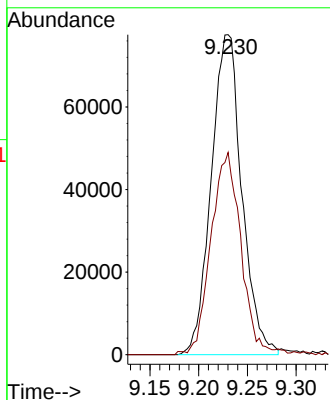
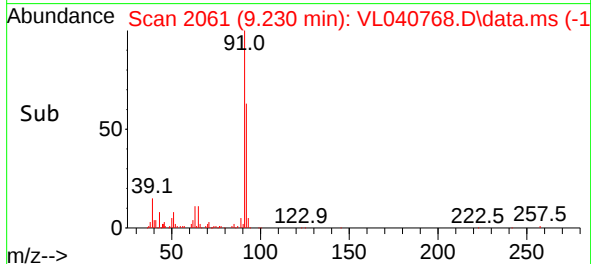
Instrument :
MSVOA_L
ClientSampleId :
IA4



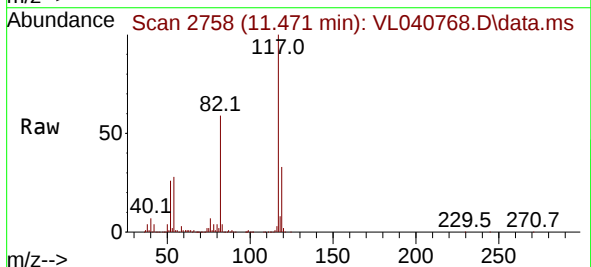
Tgt Ion: 91 Resp: 169420
Ion Ratio Lower Upper
91 100
92 62.6 50.2 75.2

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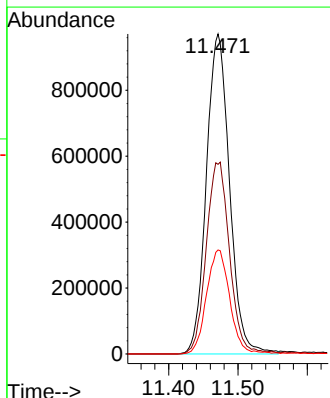
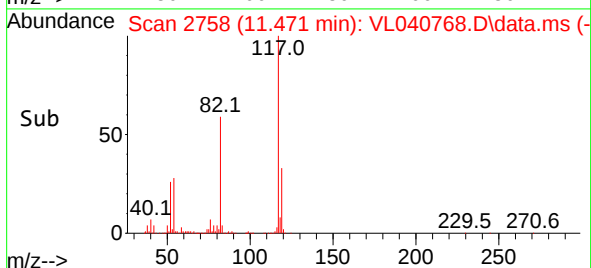
Reviewed By :Semsettin Yesilyurt 10/12/2023
Supervised By :Mahesh Dadoda 10/16/2023

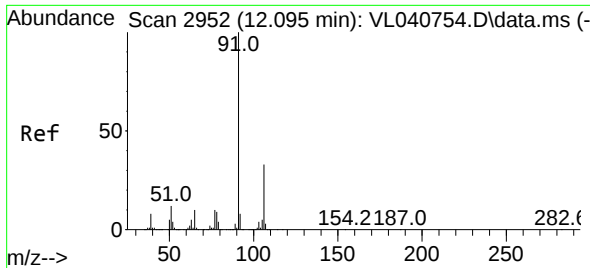


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. -0.003 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10



Tgt Ion:117 Resp: 2254386
Ion Ratio Lower Upper
117 100
82 60.9 46.6 70.0
119 33.1 26.0 39.0





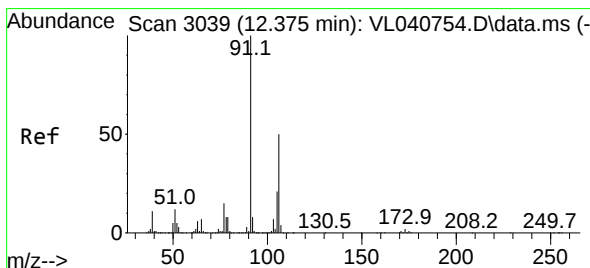
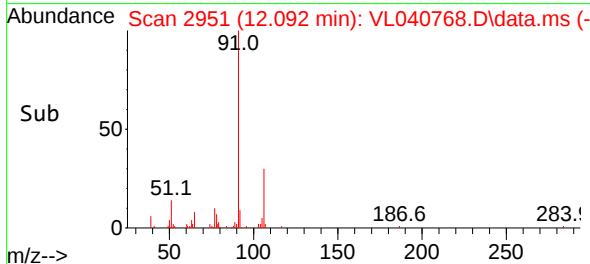
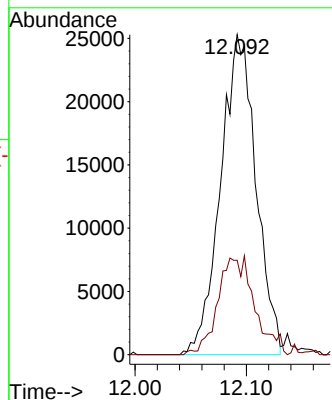
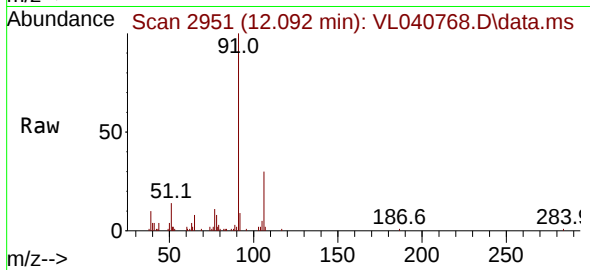
#58
Ethyl Benzene
Concen: 0.197 ppbv
RT: 12.092 min Scan# 2951
Delta R.T. -0.003 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

Instrument :
MSVOA_L
ClientSampleId :
IA4

Tgt Ion: 91 Resp: 5588
Ion Ratio Lower Upper
91 100
106 29.5 26.7 40.1

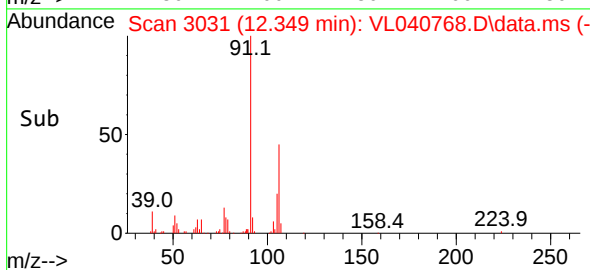
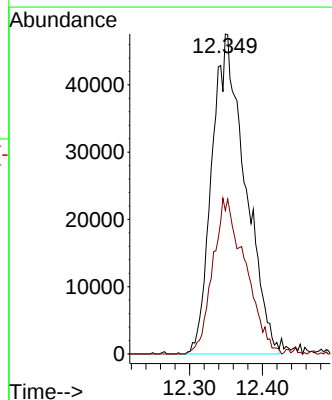
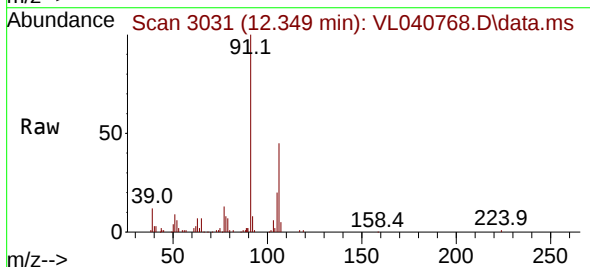
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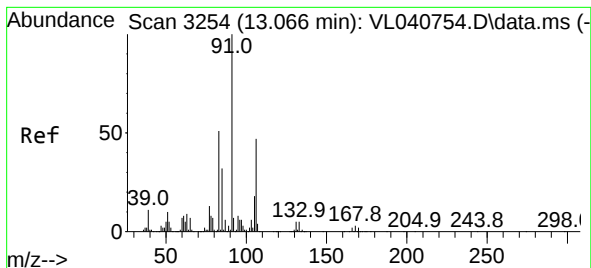
Reviewed By :Semsettin Yesilyurt 10/12/2023
Supervised By :Mahesh Dadoda 10/16/2023



#59
m/p-Xylene
Concen: 0.650 ppbv m
RT: 12.349 min Scan# 3031
Delta R.T. -0.026 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

Tgt Ion: 91 Resp: 151948
Ion Ratio Lower Upper
91 100
106 0.0 37.7 56.5#





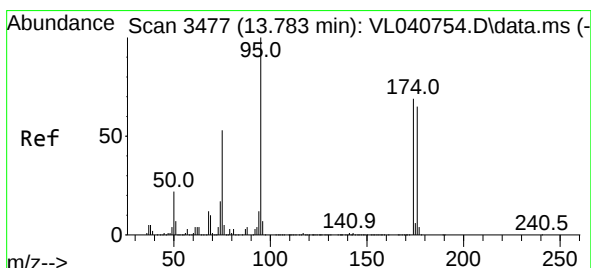
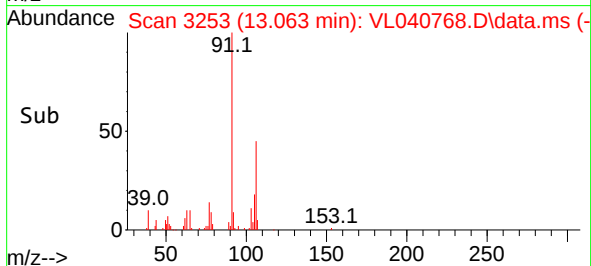
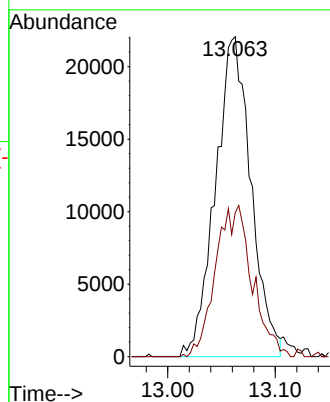
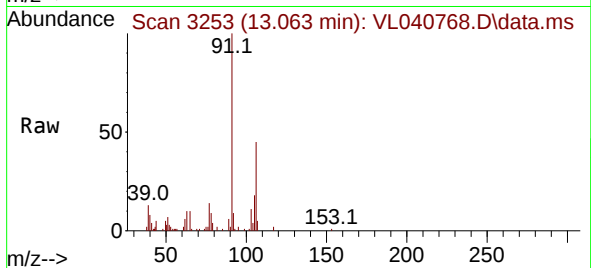
#60
o-Xylene
Concen: 0.228 ppbv
RT: 13.063 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

Instrument :
MSVOA_L
ClientSampleId :
IA4

Tgt Ion: 91 Resp: 50674
Ion Ratio Lower Upper
91 100
106 49.4 23.5 70.5

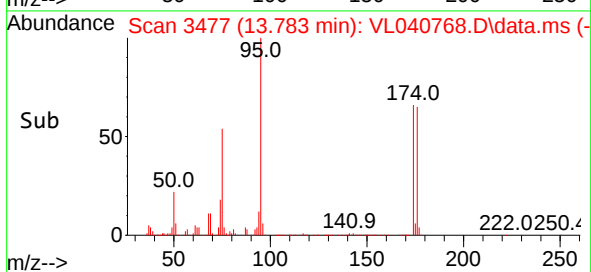
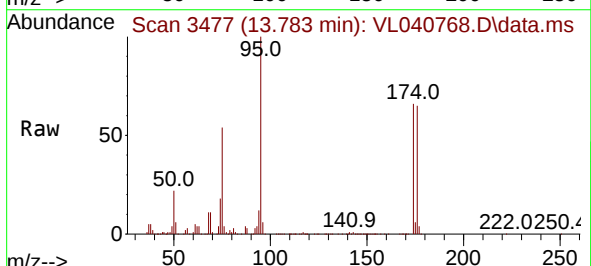
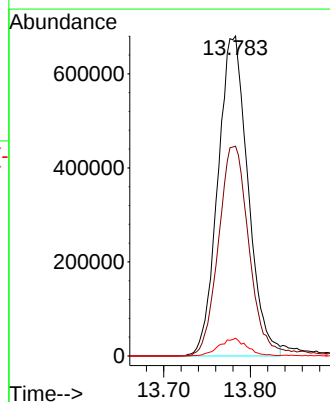
Manual Integrations
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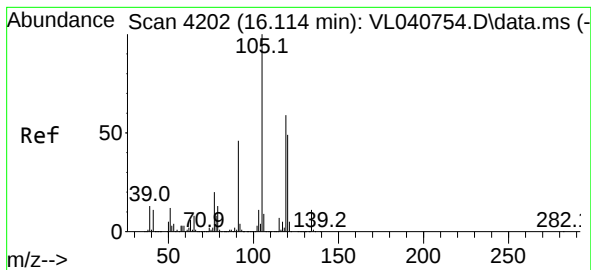
Reviewed By :Semsettin Yesilyurt 10/12/2023
Supervised By :Mahesh Dadoda 10/16/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.908 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. -0.000 min
Lab File: VL040768.D
Acq: 11 Oct 2023 23:10

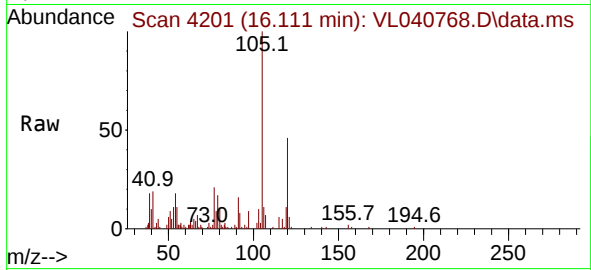
Tgt Ion: 95 Resp: 1643574
Ion Ratio Lower Upper
95 100
174 68.6 54.7 82.1
175 5.3 4.2 6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.206 ppbv
 RT: 16.111 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL040768.D
 Acq: 11 Oct 2023 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 IA4



Tgt Ion:	105	Resp:	5155
Ion	Ratio	Lower	Upper
105	100		
120	47.4	39.4	59.2
91	13.4	38.6	58.0
77	18.0	16.6	25.0

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/12/2023
 Supervised By :Mahesh Dadoda 10/16/2023

