

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061124\
 Data File : VL041345.D
 Acq On : 11 Jun 2024 13:36
 Operator : SY/MD
 Sample : P2837-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/12/2024
 Supervised By :Mahesh Dadoda 06/12/2024

Quant Time: Jun 12 01:23:09 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M

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

QLast Update : Wed Jun 12 01:18:29 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	1034533	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2719634	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2542277	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1917653	9.770	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.761	85	45373	0.275	ppbv	92
4) Chloromethane	2.841	50	37804	0.614	ppbv	92
9) Propene	2.732	41	38278m	0.657	ppbv	
10) Heptane	7.587	43	65921	0.478	ppbv	88
11) Trichlorofluoromethane	3.584	101	36674	0.241	ppbv	99
13) Ethanol	3.259	45	2151775	142.033	ppbv	100
15) Acetone	3.491	43	1105783	9.362	ppbv	99
19) Isopropyl Alcohol	3.600	45	289006	3.895	ppbv #	1
20) Methylene Chloride	3.954	84	1082238	25.208	ppbv	95
26) Hexane	5.227	57	1669996	15.892	ppbv #	40
29) Chloroform	5.288	83	18380m	0.114	ppbv	
30) Cyclohexane	6.616	84	33003	0.387	ppbv	86
34) 2-Butanone	4.803	43	107547	0.825	ppbv	96
35) Carbon Tetrachloride	6.516	117	11771m	0.076	ppbv	
36) Benzene	6.381	78	55973	0.266	ppbv #	90
38) Trichloroethene	7.304	130	120661	1.412	ppbv	85
44) 2,2,4-Trimethylpentane	7.336	57	112671	0.311	ppbv #	77
52) Tetrachloroethene	10.626	164	149755	1.948	ppbv	94
53) Toluene	9.230	91	235804	0.973	ppbv	98
58) Ethyl Benzene	12.101	91	93045m	0.286	ppbv	
59) m/p-Xylene	12.346	91	239128m	0.856	ppbv	
60) o-Xylene	13.060	91	92998m	0.349	ppbv	
64) n-propylbenzene	14.918	120	13843m	0.133	ppbv	
72) 4-Ethyltoluene	15.194	105	73283m	0.236	ppbv	
73) 1,3,5-Trimethylbenzene	15.358	105	52969	0.197	ppbv #	76
74) 1,2,4-Trimethylbenzene	16.111	105	203913	0.670	ppbv #	73
79) Naphthalene	21.394	128	29959m	0.113	ppbv	

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

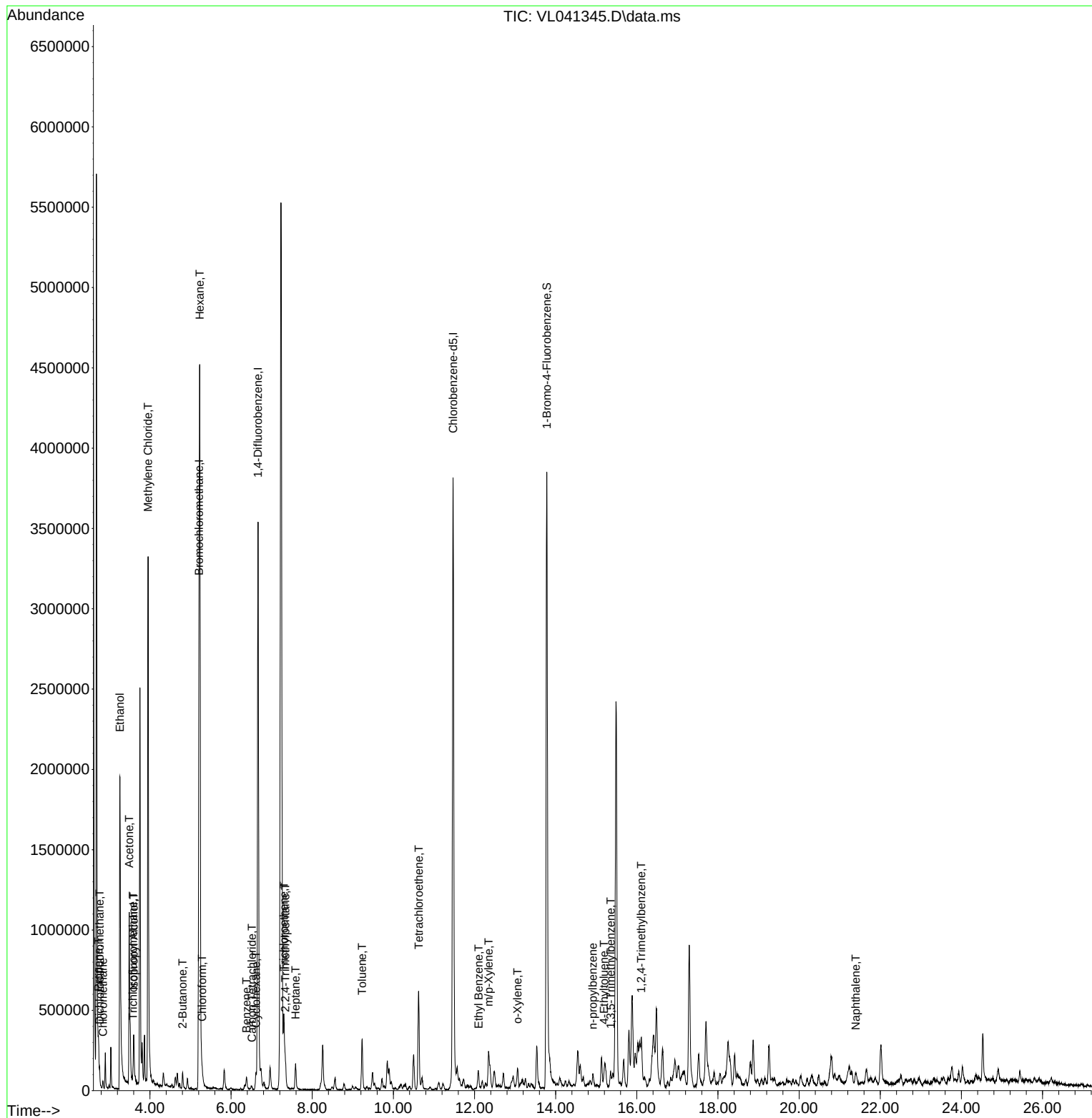
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061124\
Data File : VL041345.D
Acq On : 11 Jun 2024 13:36
Operator : SY/MD
Sample : P2837-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

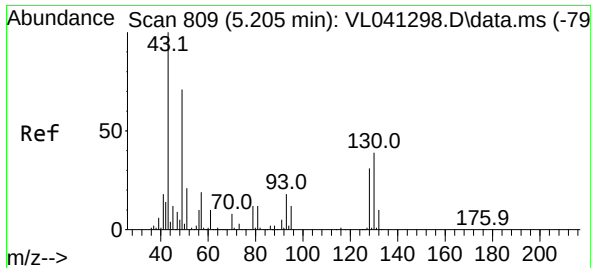
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Jun 12 01:23:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jun 12 01:18:29 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

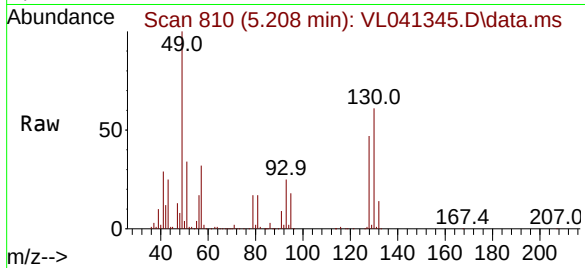
Reviewed By : Semsettin Yesilyurt 06/12/2024
Supervised By : Mahesh Dadoda 06/12/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

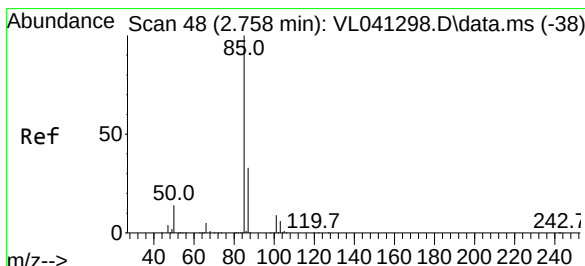
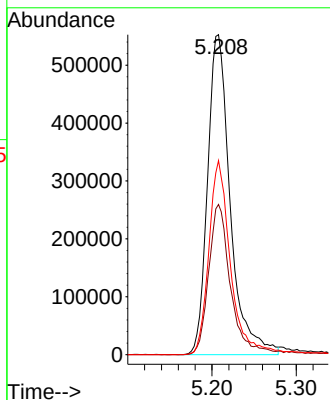
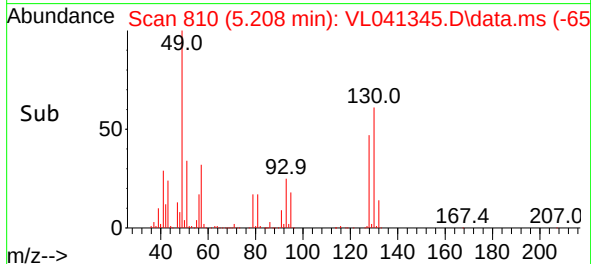
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 103453
Ion Ratio Lower Upper
49 100
128 45.9 22.8 68.3
130 59.4 28.4 85.3

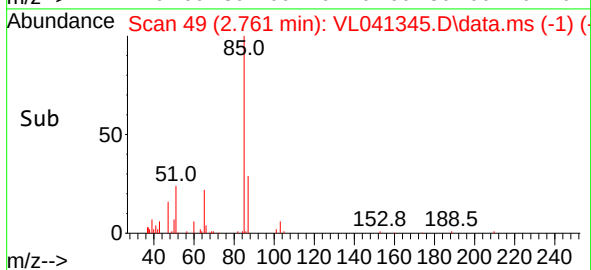
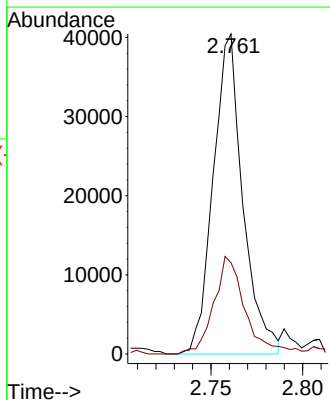
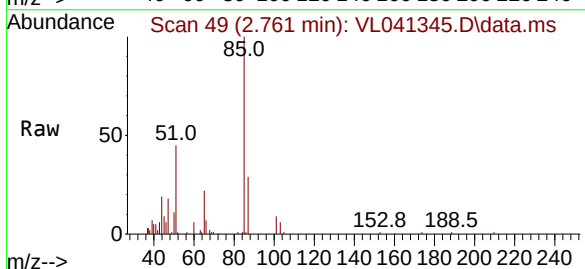
Manual Integrations
APPROVED

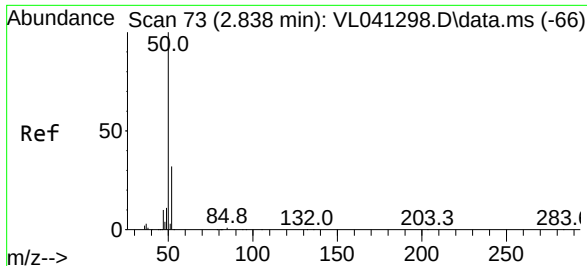
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#2
Dichlorodifluoromethane
Concen: 0.275 ppbv
RT: 2.761 min Scan# 49
Delta R.T. 0.000 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

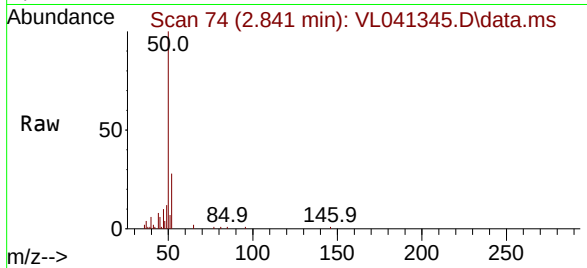
Tgt Ion: 85 Resp: 45373
Ion Ratio Lower Upper
85 100
87 28.5 26.5 39.7





#4
Chloromethane
Concen: 0.614 ppbv
RT: 2.841 min Scan# 74
Delta R.T. -0.003 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

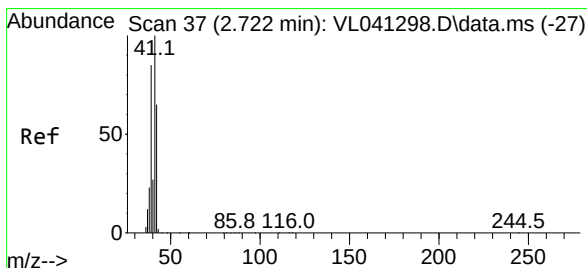
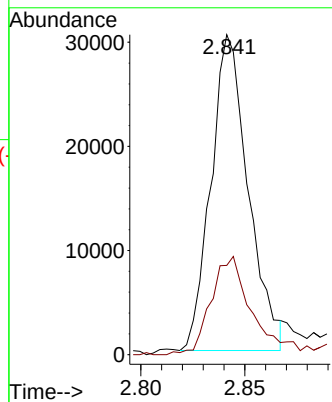
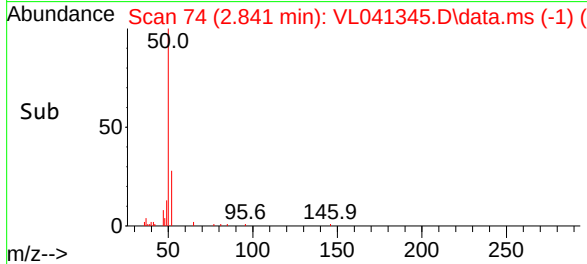
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 50 Resp: 37804
Ion Ratio Lower Upper
50 100
52 27.6 25.6 38.4

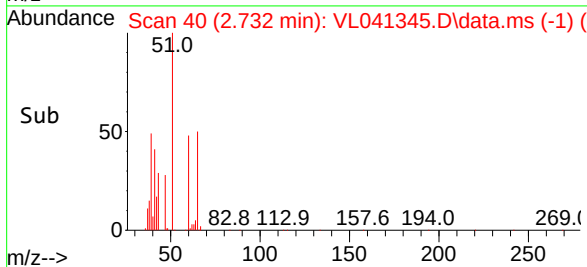
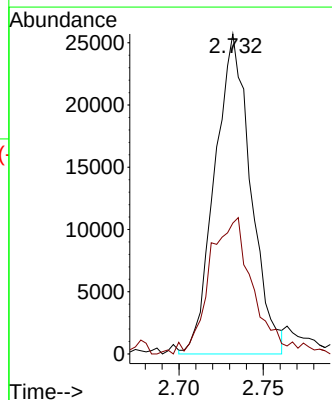
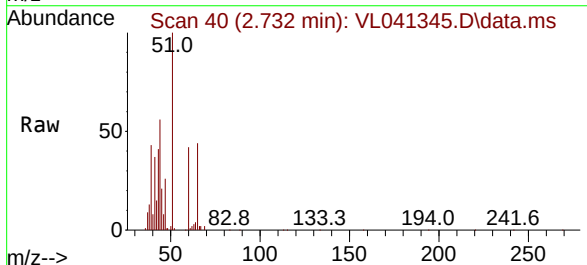
Manual Integrations
APPROVED

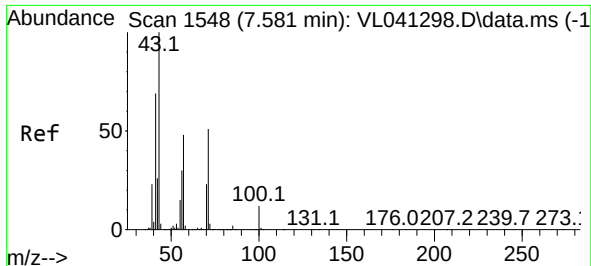
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#9
Propene
Concen: 0.657 ppbv m
RT: 2.732 min Scan# 40
Delta R.T. 0.006 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

Tgt Ion: 41 Resp: 38278
Ion Ratio Lower Upper
41 100
42 3.1 55.2 82.8#





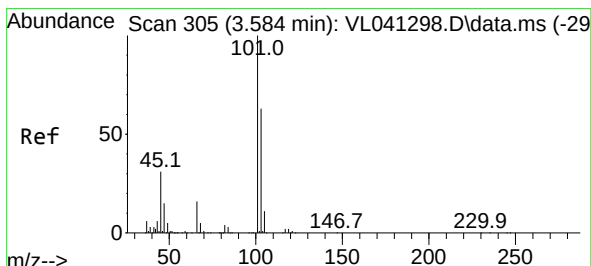
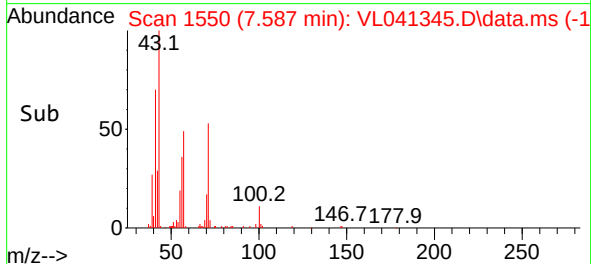
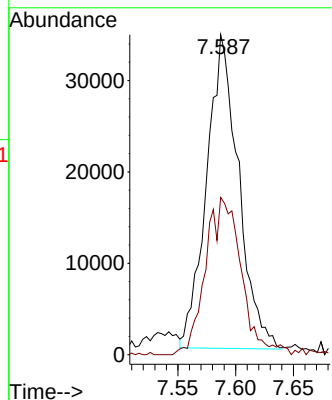
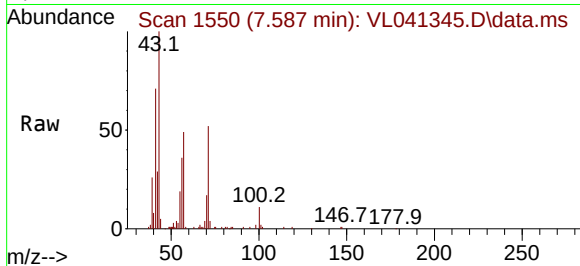
#10
Heptane
Concen: 0.478 ppbv
RT: 7.587 min Scan# 1550
Delta R.T. -0.003 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 6592
Ion Ratio Lower Upper
43 100
57 57.0 39.0 58.4

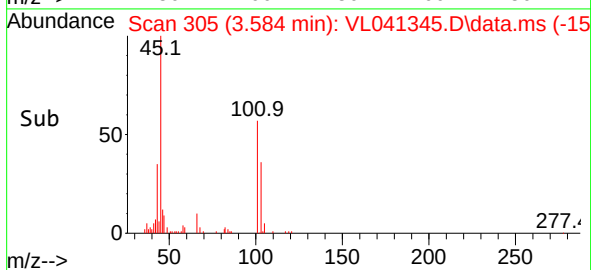
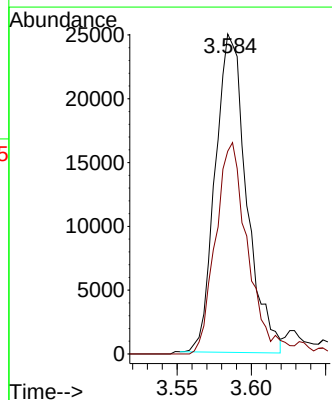
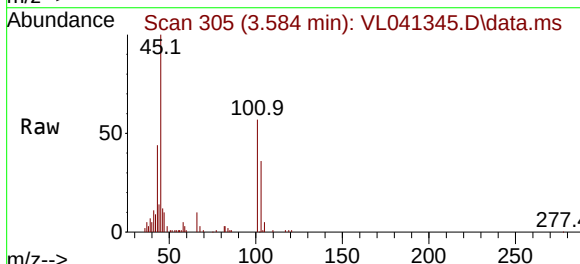
Manual Integrations
APPROVED

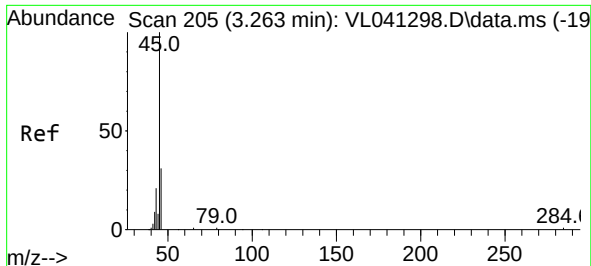
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#11
Trichlorofluoromethane
Concen: 0.241 ppbv
RT: 3.584 min Scan# 305
Delta R.T. -0.003 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

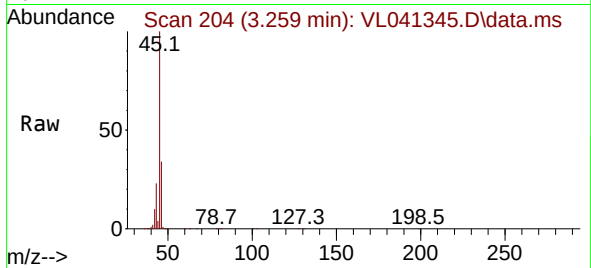
Tgt Ion:101 Resp: 36674
Ion Ratio Lower Upper
101 100
103 63.8 50.6 76.0





#13
Ethanol
Concen: 142.033 ppbv
RT: 3.259 min Scan# 205
Delta R.T. -0.010 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

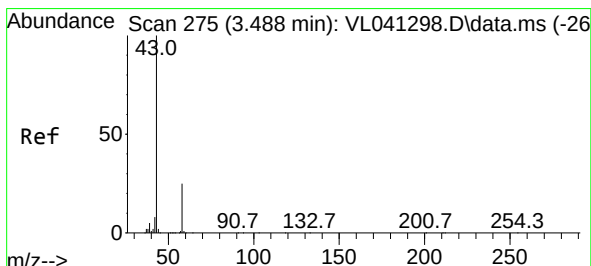
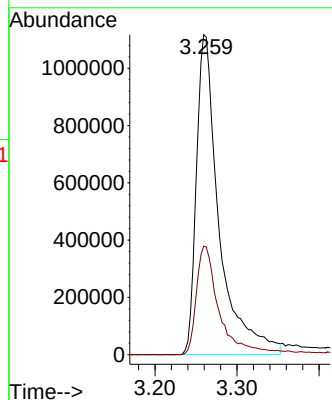
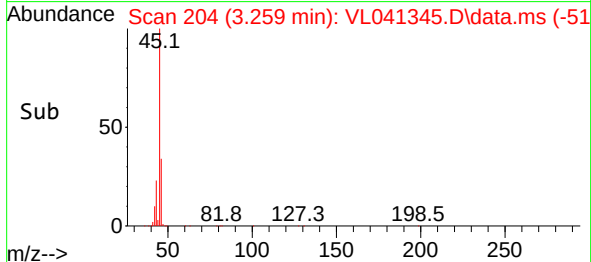
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



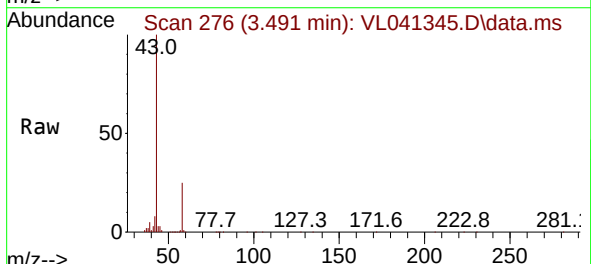
Tgt Ion: 45 Resp: 215177
Ion Ratio Lower Upper
45 100
46 35.3 14.2 56.6

Manual Integrations
APPROVED

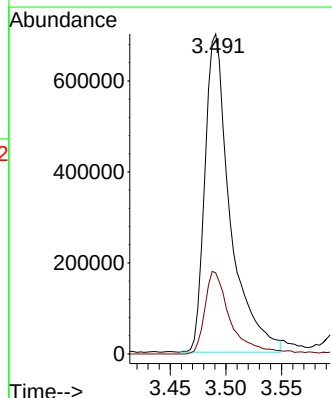
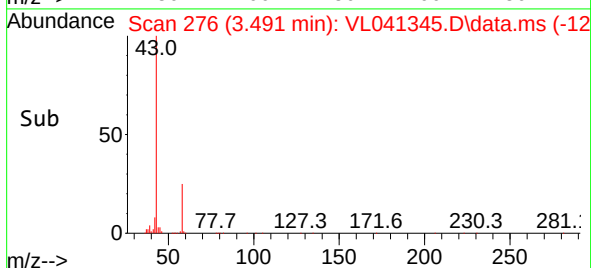
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024

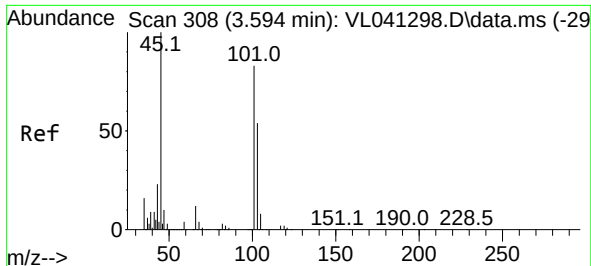


#15
Acetone
Concen: 9.362 ppbv
RT: 3.491 min Scan# 276
Delta R.T. -0.003 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36



Tgt Ion: 43 Resp: 1105783
Ion Ratio Lower Upper
43 100
58 26.5 20.6 31.0





#19

Isopropyl Alcohol

Concen: 3.895 ppbv

RT: 3.600 min Scan# 310

Delta R.T. 0.003 min

Lab File: VL041345.D

Acq: 11 Jun 2024 13:36

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 45 Resp: 289000

Ion Ratio Lower Upper

45 100

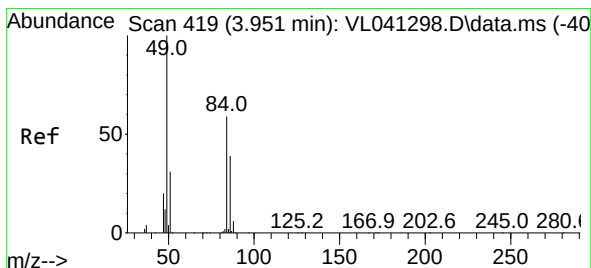
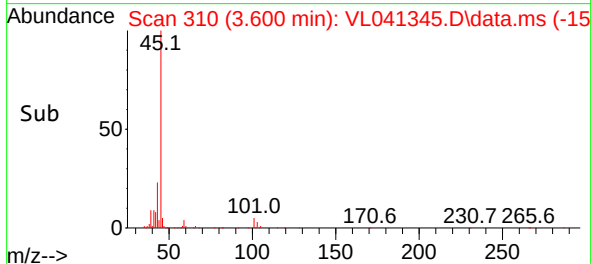
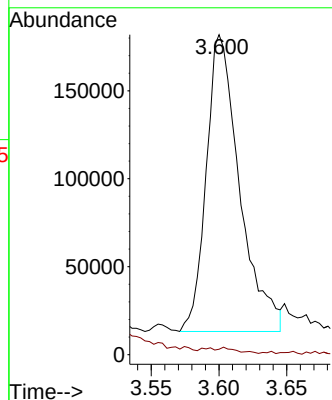
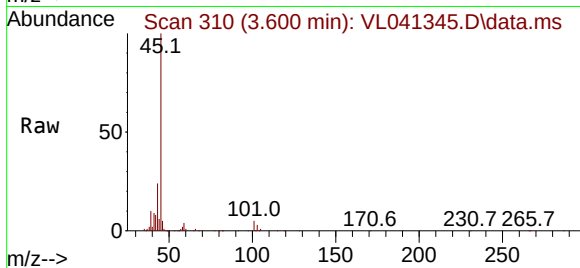
58 104.2 1.4 2.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/12/2024

Supervised By :Mahesh Dadoda 06/12/2024



#20

Methylene Chloride

Concen: 25.208 ppbv

RT: 3.954 min Scan# 420

Delta R.T. 0.000 min

Lab File: VL041345.D

Acq: 11 Jun 2024 13:36

Tgt Ion: 84 Resp: 1082238

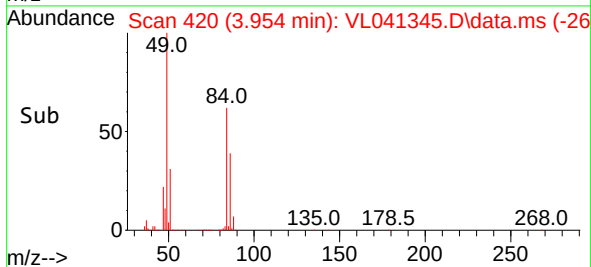
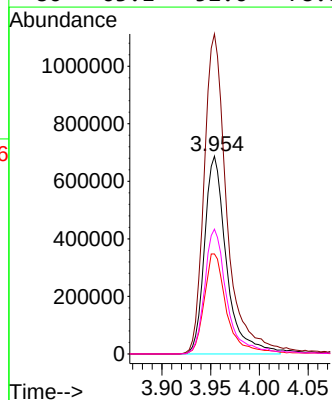
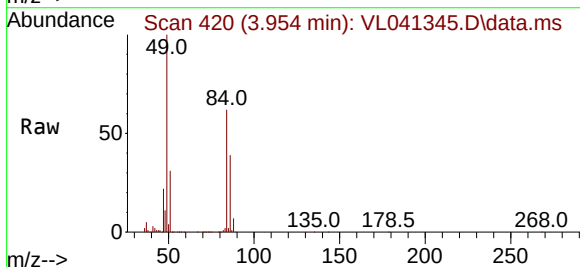
Ion Ratio Lower Upper

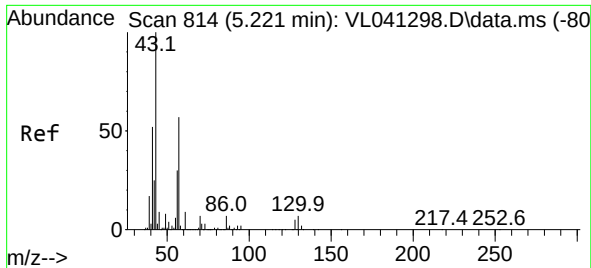
84 100

49 161.8 136.2 204.2

51 50.5 41.9 62.9

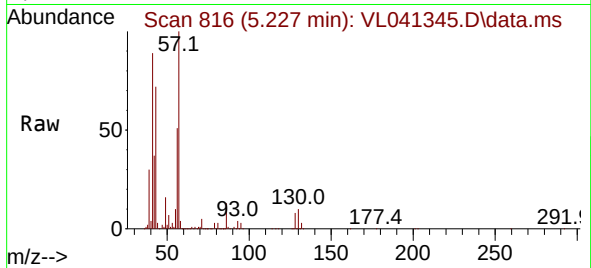
86 63.1 52.6 78.8





#26
Hexane
Concen: 15.892 ppbv
RT: 5.227 min Scan# 815
Delta R.T. -0.003 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

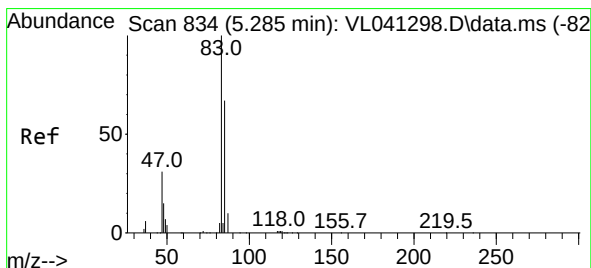
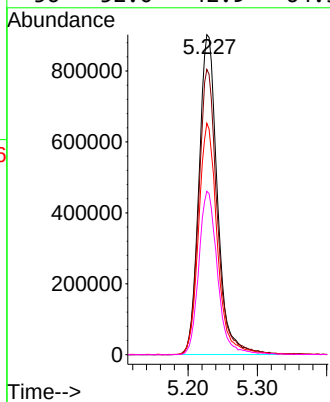
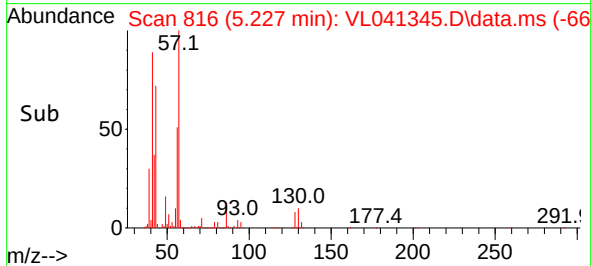
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



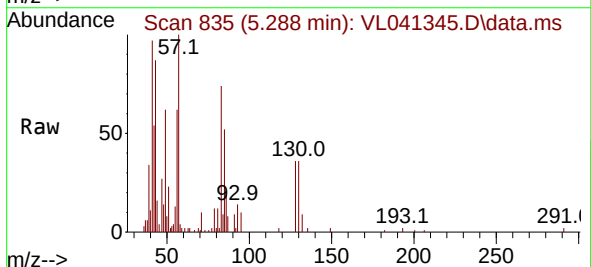
Tgt Ion: 57 Resp: 1669990
Ion Ratio Lower Upper
57 100
41 90.4 77.1 115.7
43 73.3 186.1 279.1
56 52.0 42.9 64.3

Manual Integrations
APPROVED

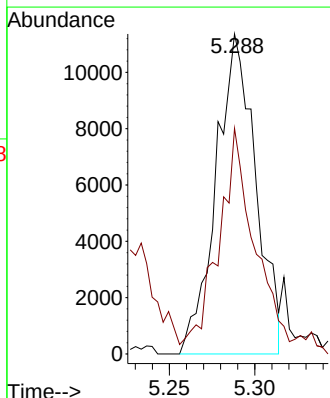
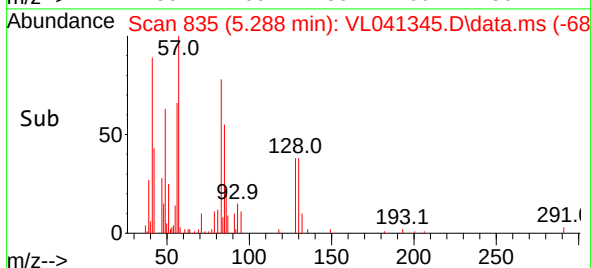
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024

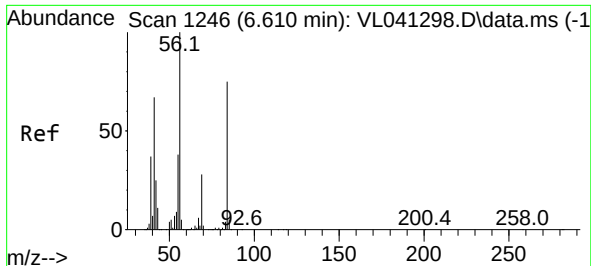


#29
Chloroform
Concen: 0.114 ppbv m
RT: 5.288 min Scan# 835
Delta R.T. -0.003 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36



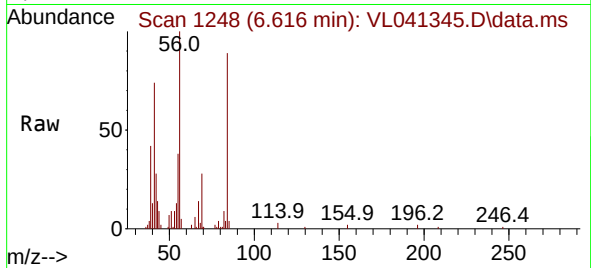
Tgt Ion: 83 Resp: 18380
Ion Ratio Lower Upper
83 100
85 70.5 53.3 79.9





#30
Cyclohexane
Concen: 0.387 ppbv
RT: 6.616 min Scan# 1248
Delta R.T. 0.000 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

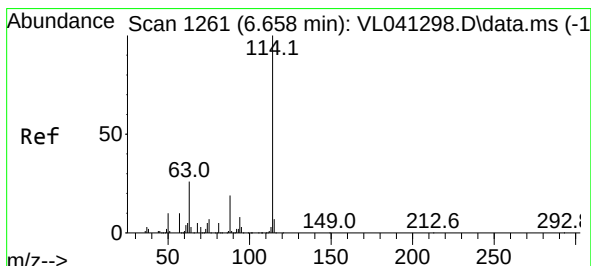
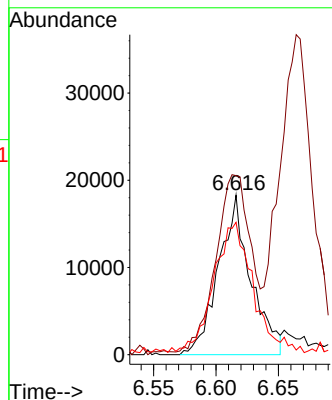
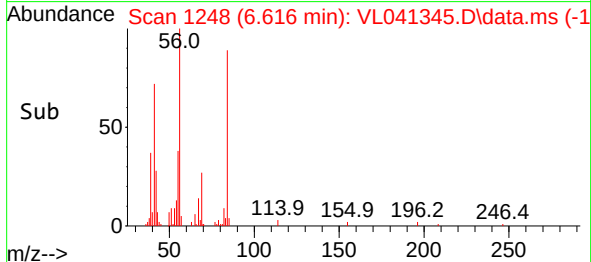
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



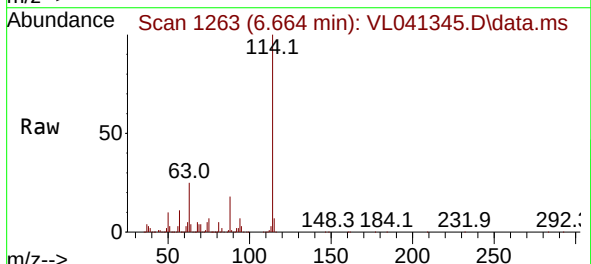
Tgt Ion: 84 Resp: 33000
Ion Ratio Lower Upper
84 100
56 120.5 114.9 172.3
41 98.5 74.4 111.6

Manual Integrations
APPROVED

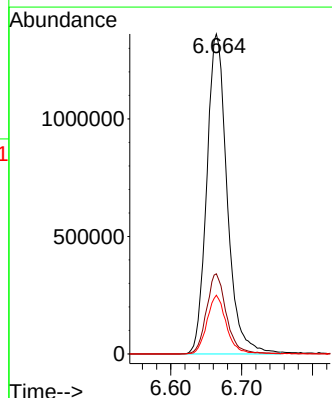
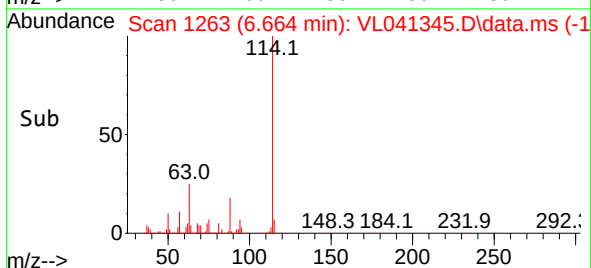
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024

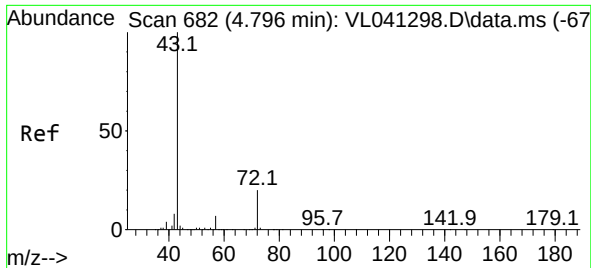


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. -0.003 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36



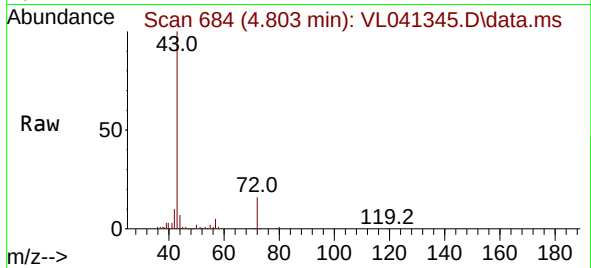
Tgt Ion:114 Resp: 2719634
Ion Ratio Lower Upper
114 100
63 24.8 20.6 30.8
88 17.6 14.5 21.7





#34
2-Butanone
Concen: 0.825 ppbv
RT: 4.803 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

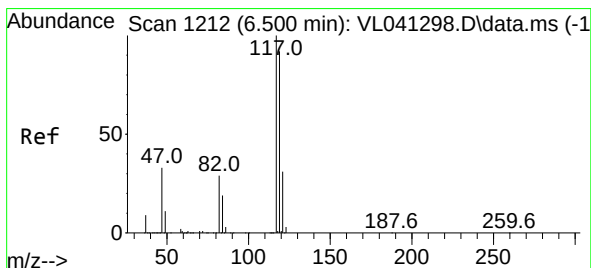
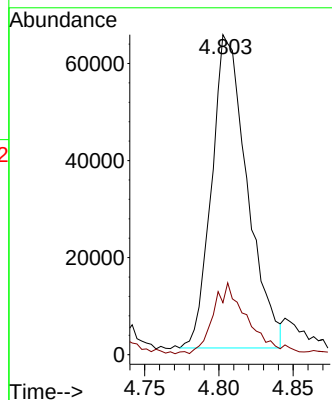
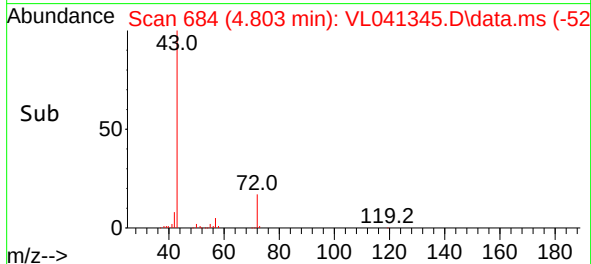
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 10754
Ion Ratio Lower Upper
43 100
72 23.7 17.4 26.0

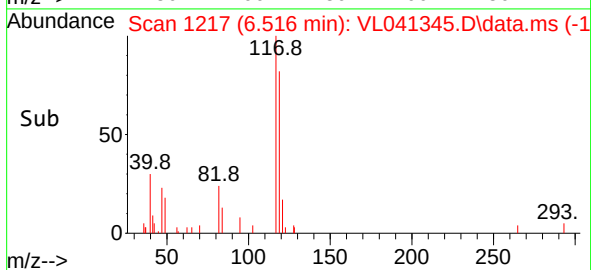
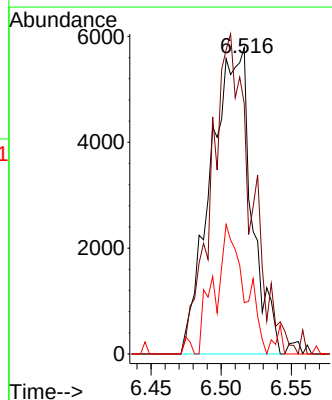
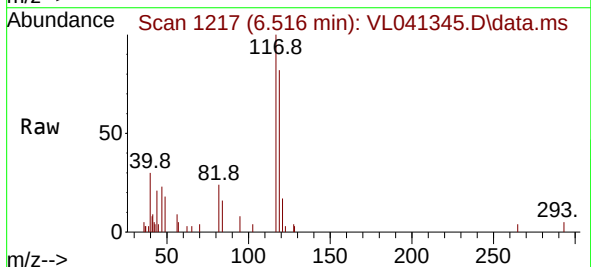
Manual Integrations
APPROVED

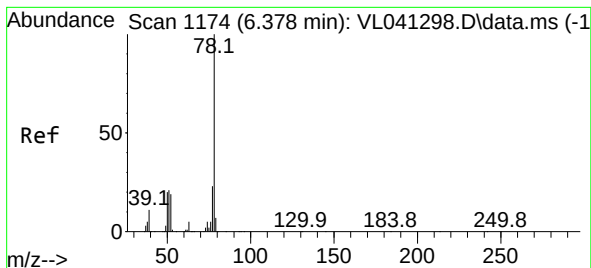
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 6.516 min Scan# 1217
Delta R.T. 0.006 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

Tgt Ion:117 Resp: 11771
Ion Ratio Lower Upper
117 100
119 81.8 74.0 111.0
121 16.8 24.8 37.2#





#36

Benzene

Concen: 0.266 ppbv

RT: 6.381 min Scan# 1175

Delta R.T. -0.003 min

Lab File: VL041345.D

Acq: 11 Jun 2024 13:36

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

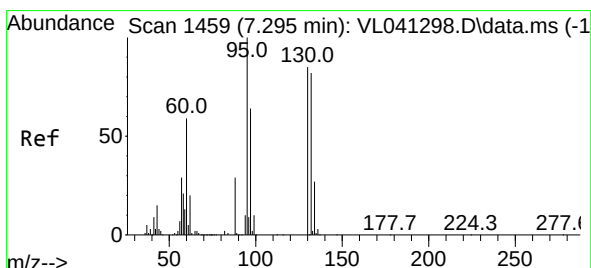
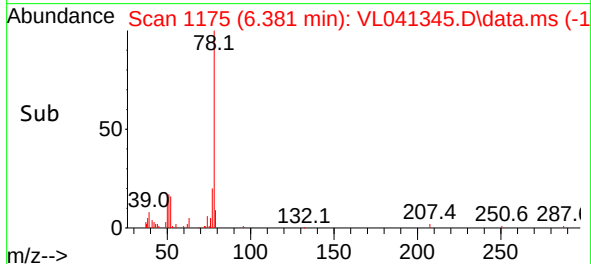
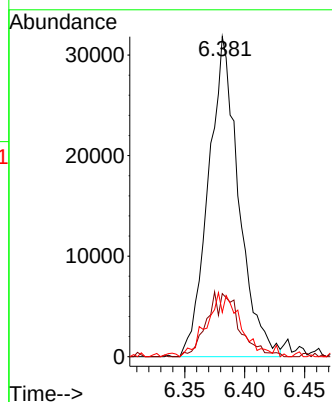
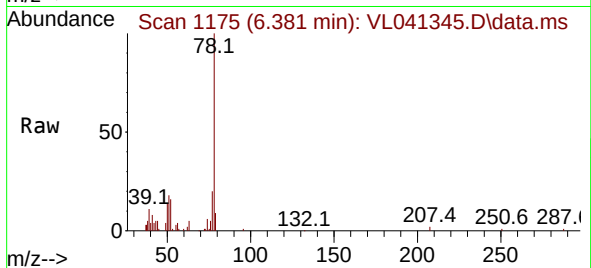
Tgt Ion: 78 Resp: 5597

Ion	Ratio	Lower	Upper
78	100		
77	19.7	18.6	28.0
50	13.8	16.0	24.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#38

Trichloroethene

Concen: 1.412 ppbv

RT: 7.304 min Scan# 1462

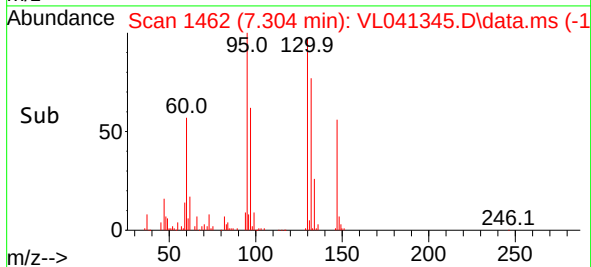
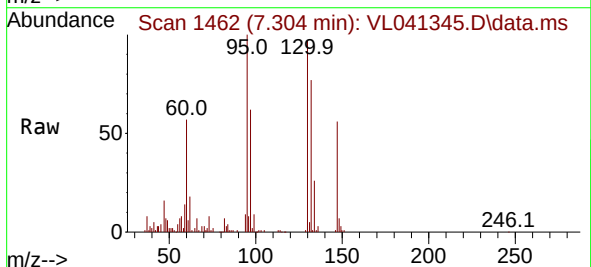
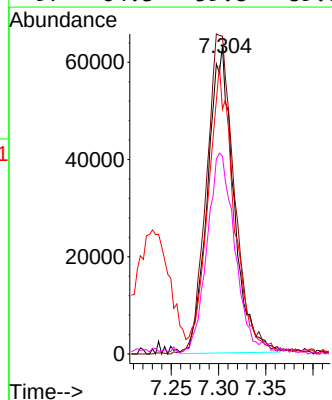
Delta R.T. 0.000 min

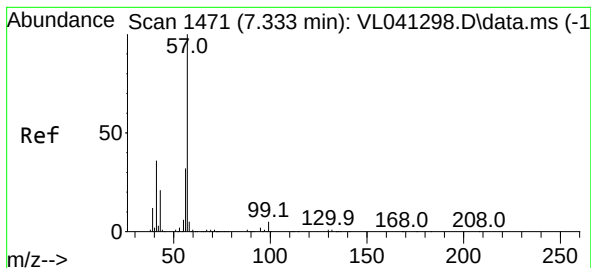
Lab File: VL041345.D

Acq: 11 Jun 2024 13:36

Tgt Ion:130 Resp: 120661

Ion	Ratio	Lower	Upper
130	100		
95	103.1	94.0	141.0
132	78.0	76.7	115.1
97	64.3	59.8	89.8





#44

2,2,4-Trimethylpentane

Concen: 0.311 ppbv

RT: 7.336 min Scan# 1471

Delta R.T. -0.003 min

Lab File: VL041345.D

Acq: 11 Jun 2024 13:36

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 57 Resp: 11267

Ion Ratio Lower Upper

57 100

41 47.8 29.4 44.2

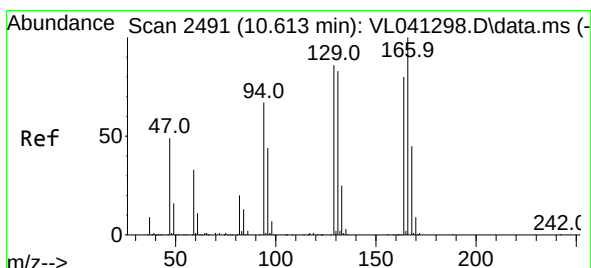
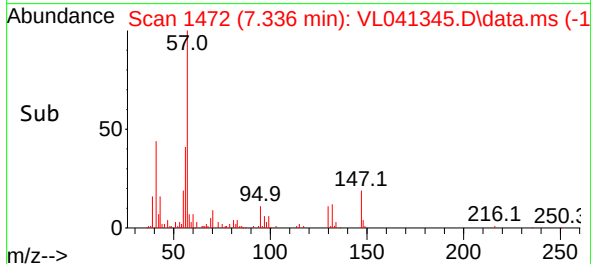
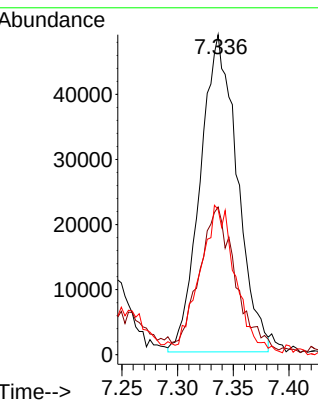
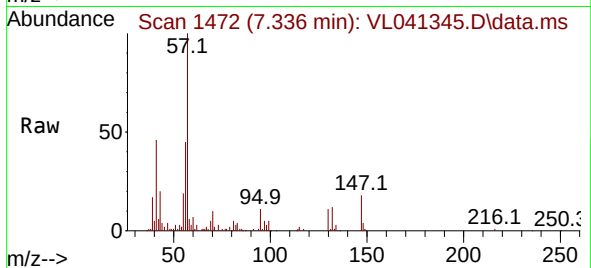
56 47.2 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/12/2024

Supervised By :Mahesh Dadoda 06/12/2024



#52

Tetrachloroethene

Concen: 1.948 ppbv

RT: 10.626 min Scan# 2495

Delta R.T. 0.000 min

Lab File: VL041345.D

Acq: 11 Jun 2024 13:36

Tgt Ion:164 Resp: 149755

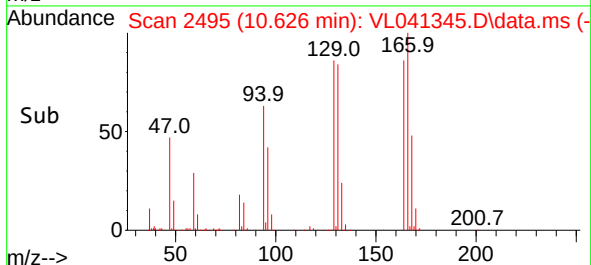
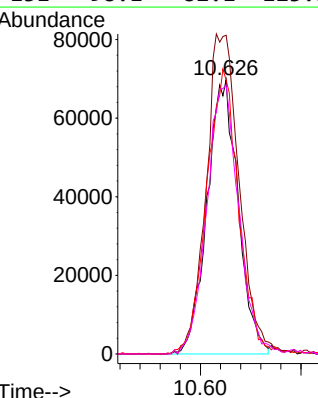
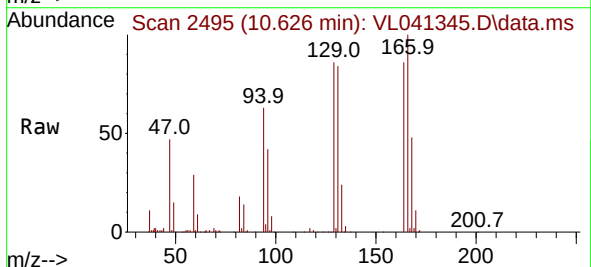
Ion Ratio Lower Upper

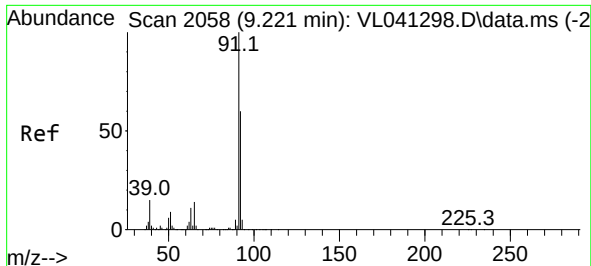
164 100

166 116.3 99.4 149.0

129 99.5 85.4 128.2

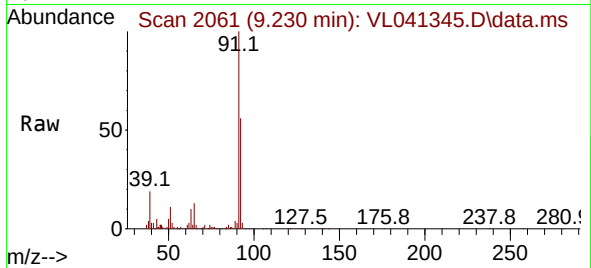
131 98.1 82.1 123.1





#53
Toluene
Concen: 0.973 ppbv
RT: 9.230 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

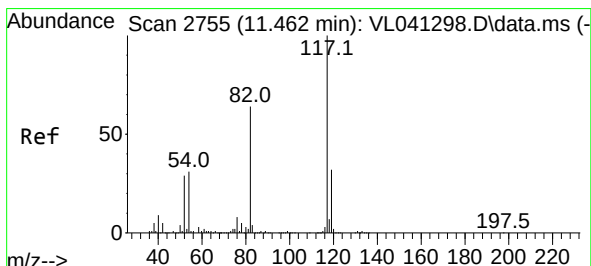
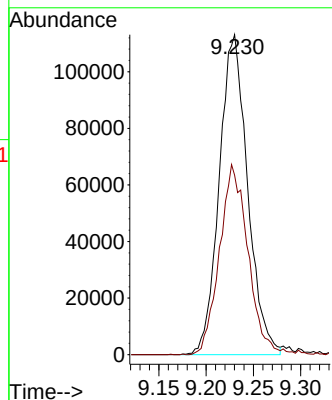
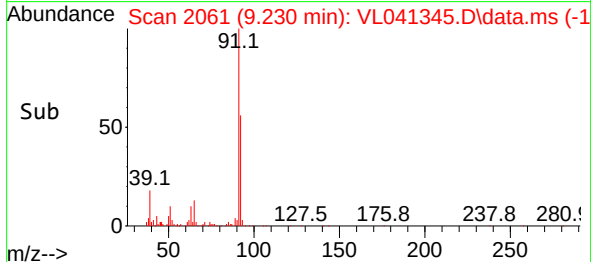
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



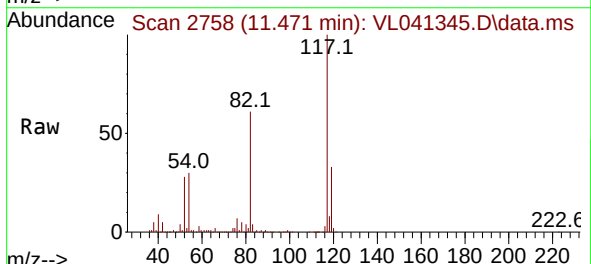
Tgt Ion: 91 Resp: 235804
Ion Ratio Lower Upper
91 100
92 60.1 49.2 73.8

Manual Integrations
APPROVED

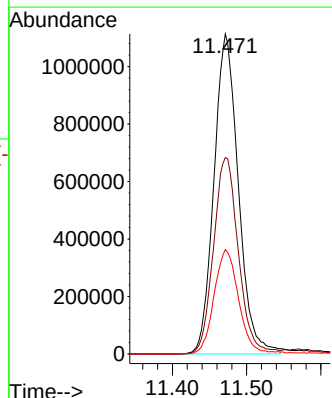
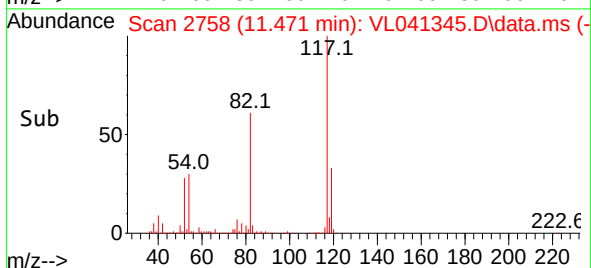
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024

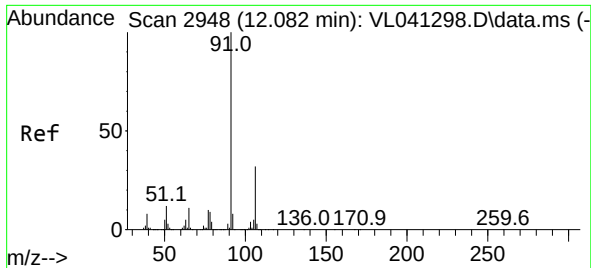


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. -0.003 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36



Tgt Ion:117 Resp: 2542277
Ion Ratio Lower Upper
117 100
82 63.0 52.3 78.5
119 33.3 26.2 39.2





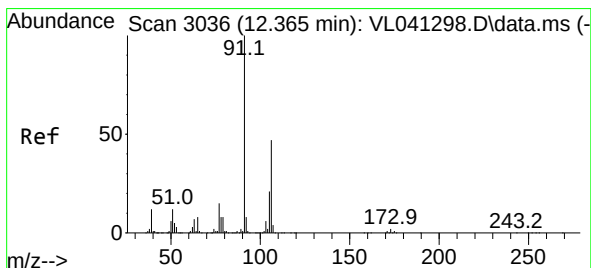
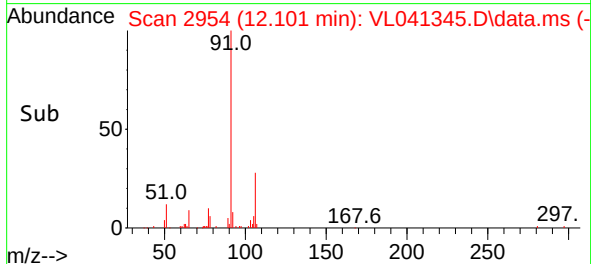
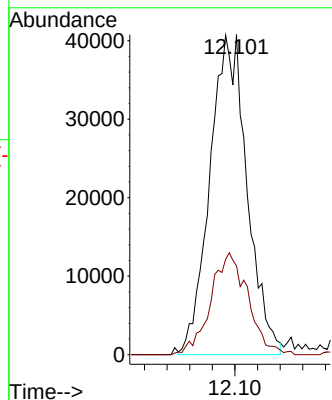
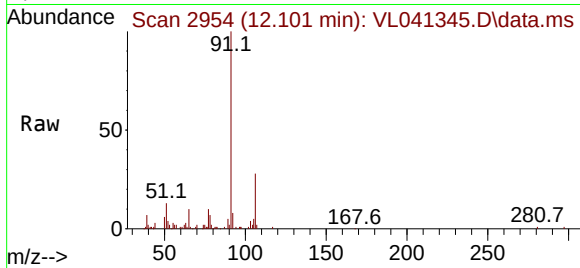
#58
Ethyl Benzene
Concen: 0.286 ppbv m
RT: 12.101 min Scan# 2948
Delta R.T. 0.006 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 93045
Ion Ratio Lower Upper
91 100
106 27.8 25.5 38.3

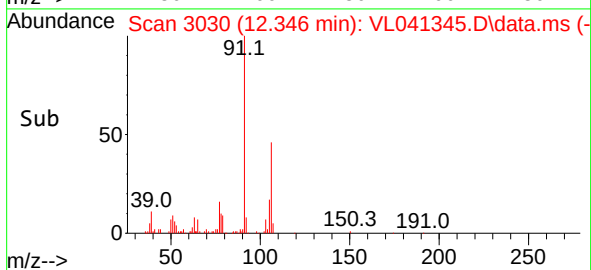
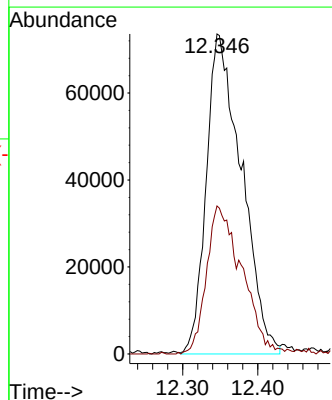
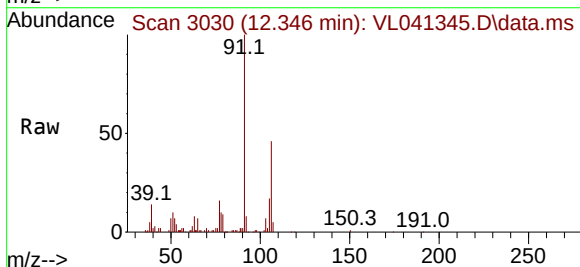
Manual Integrations
APPROVED

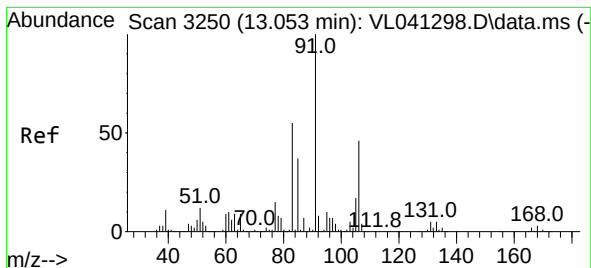
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#59
m/p-Xylene
Concen: 0.856 ppbv m
RT: 12.346 min Scan# 3030
Delta R.T. -0.032 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

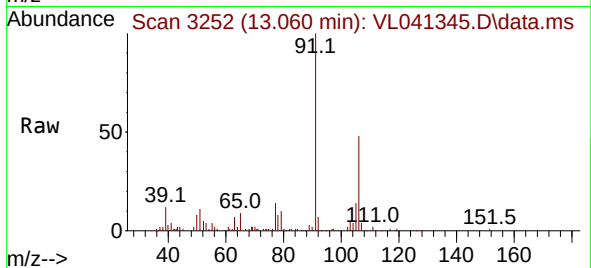
Tgt Ion: 91 Resp: 239128
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#





#60
o-Xylene
Concen: 0.349 ppbv m
RT: 13.060 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

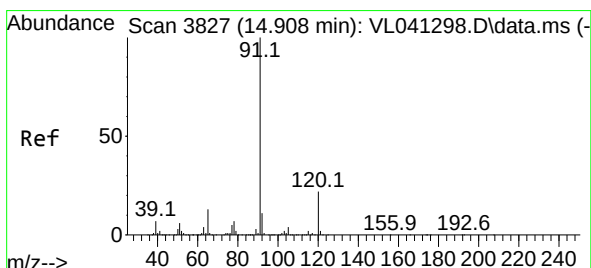
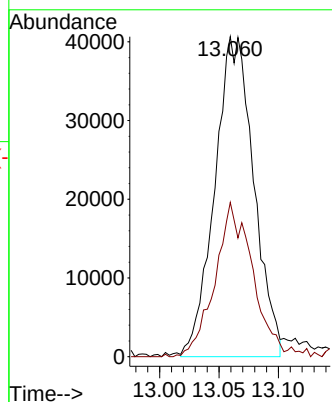
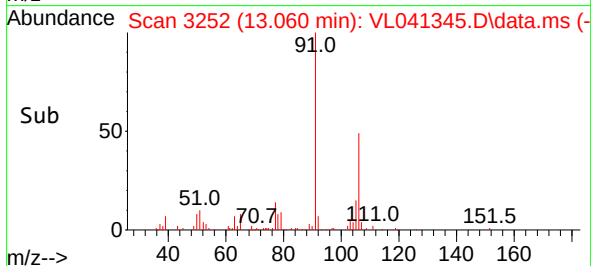
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 91 Resp: 92998
Ion Ratio Lower Upper
91 100
106 47.6 22.8 68.4

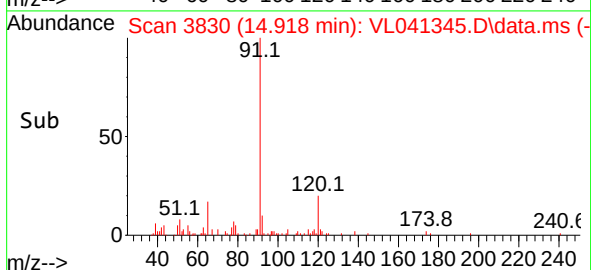
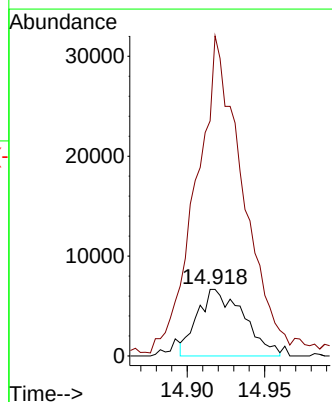
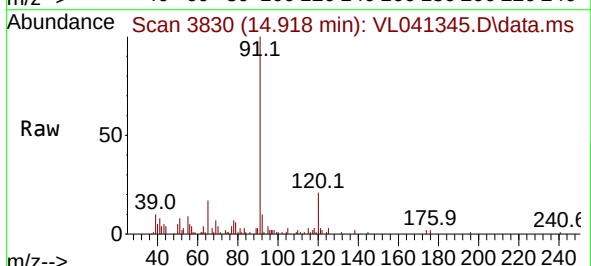
Manual Integrations
APPROVED

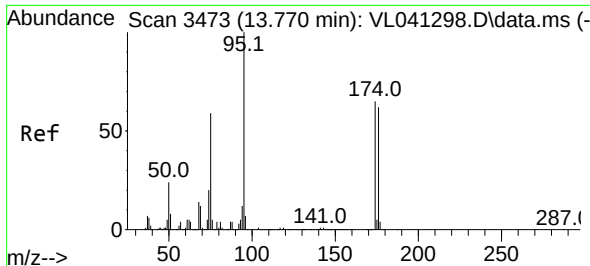
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#64
n-propylbenzene
Concen: 0.133 ppbv m
RT: 14.918 min Scan# 3830
Delta R.T. -0.003 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

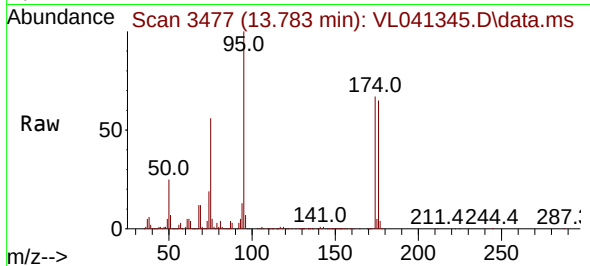
Tgt Ion:120 Resp: 13843
Ion Ratio Lower Upper
120 100
91 503.7 374.2 561.2





#68
1-Bromo-4-Fluorobenzene
Concen: 9.770 ppbv
RT: 13.783 min Scan# 3473
Delta R.T. 0.003 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

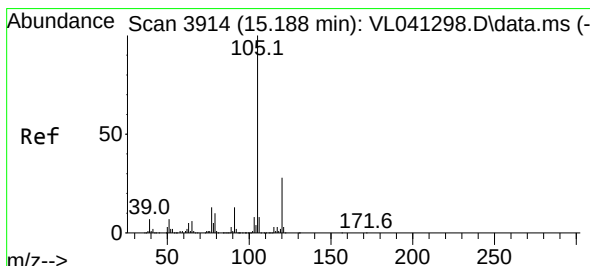
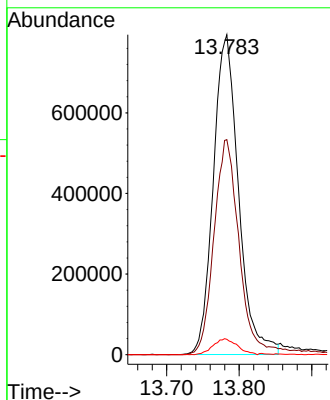
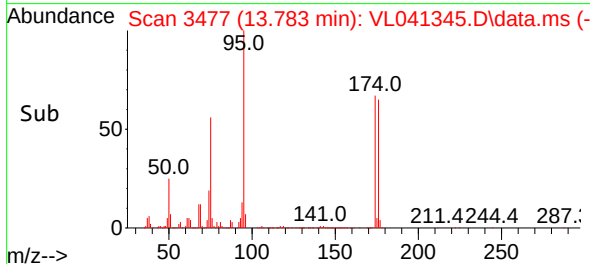
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 95 Resp: 191765
Ion Ratio Lower Upper
95 100
174 69.3 52.2 78.2
175 4.9 4.1 6.1

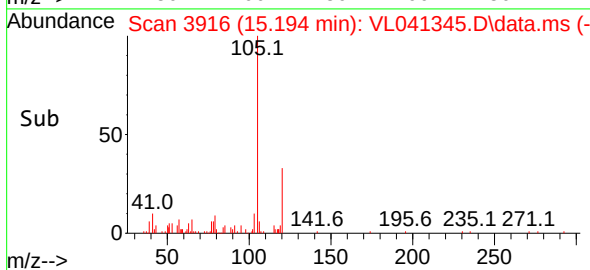
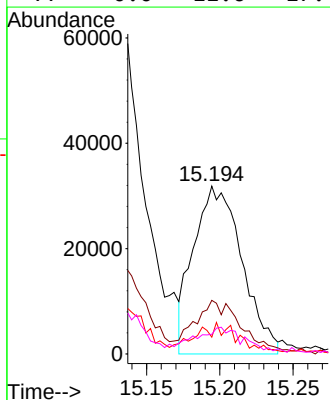
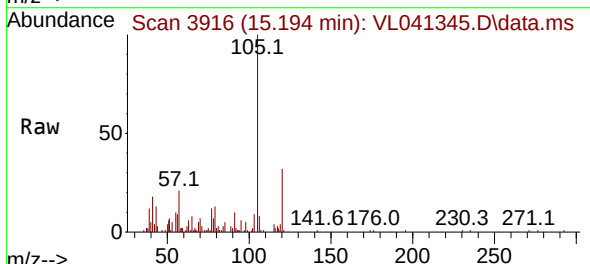
Manual Integrations
APPROVED

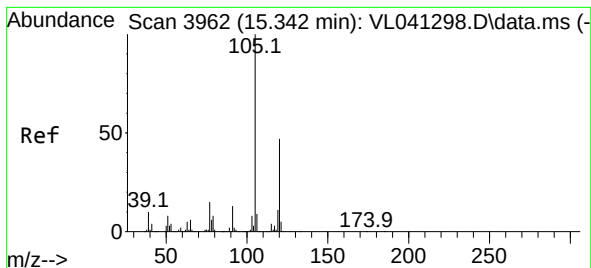
Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024



#72
4-Ethyltoluene
Concen: 0.236 ppbv m
RT: 15.194 min Scan# 3916
Delta R.T. -0.003 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

Tgt Ion:105 Resp: 73283
Ion Ratio Lower Upper
105 100
120 33.5 23.7 35.5
91 0.0 10.6 16.0#
77 0.0 11.6 17.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.197 ppbv

RT: 15.358 min Scan# 3962

Delta R.T. 0.000 min

Lab File: VL041345.D

Acq: 11 Jun 2024 13:36

Instrument :

MSVOA_L

ClientSampleId :

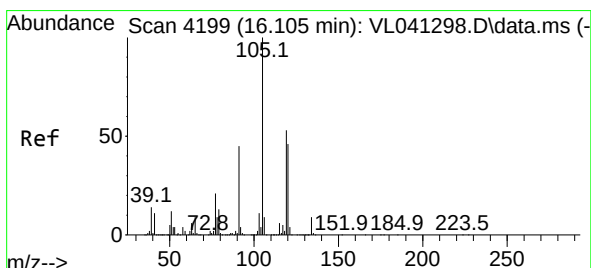
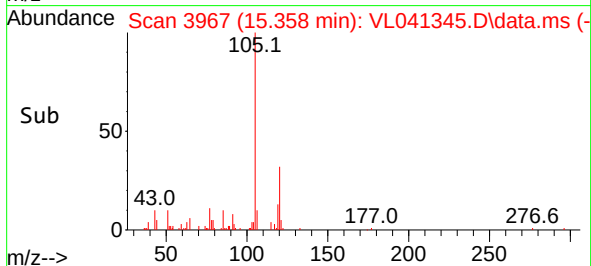
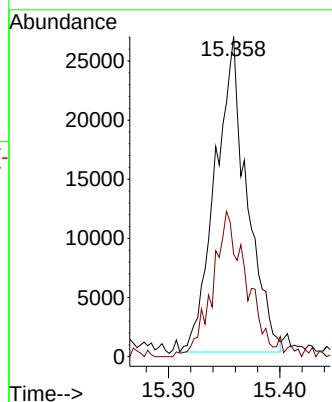
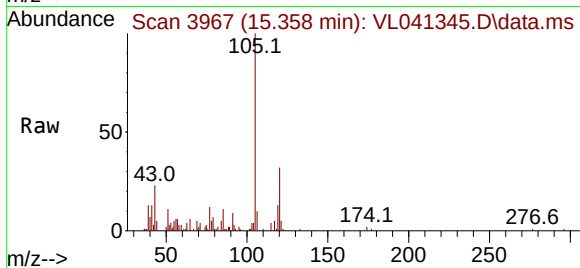
IA1DUP

Tgt Ion:105 Resp: 52969
 Ion Ratio Lower Upper
 105 100
 120 31.4 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/12/2024
 Supervised By :Mahesh Dadoda 06/12/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.670 ppbv

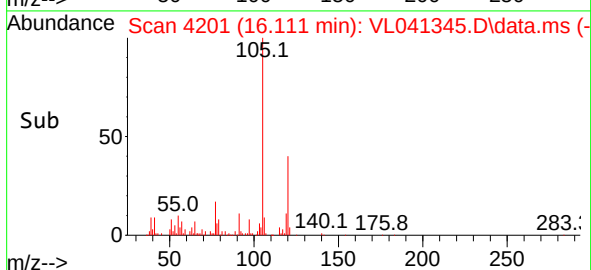
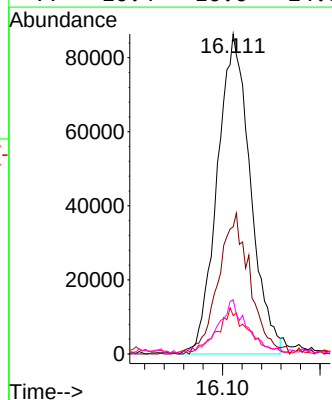
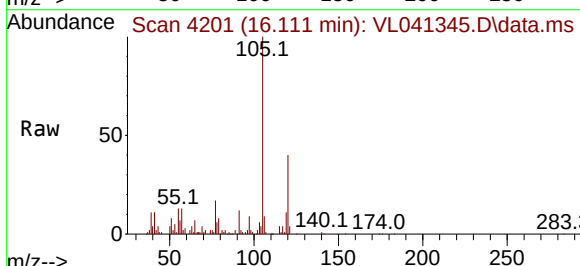
RT: 16.111 min Scan# 4201

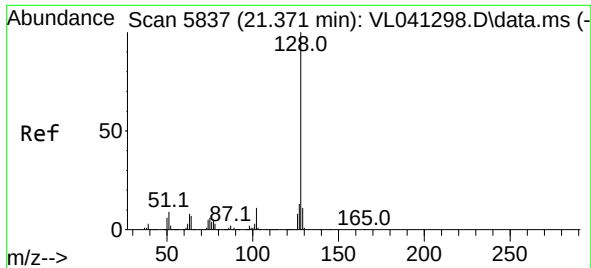
Delta R.T. 0.000 min

Lab File: VL041345.D

Acq: 11 Jun 2024 13:36

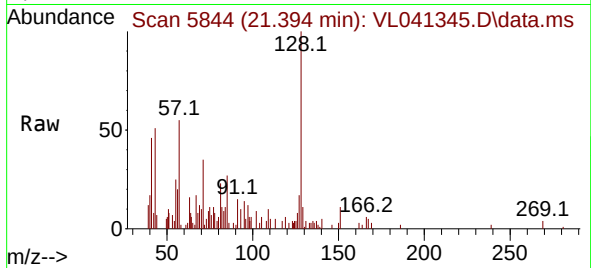
Tgt Ion:105 Resp: 203913
 Ion Ratio Lower Upper
 105 100
 120 39.7 37.0 55.6
 91 11.3 36.2 54.4#
 77 16.4 16.6 24.8#





#79
Naphthalene
Concen: 0.113 ppbv m
RT: 21.394 min Scan# 5844
Delta R.T. 0.006 min
Lab File: VL041345.D
Acq: 11 Jun 2024 13:36

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:128 Resp: 2995
Ion Ratio Lower Upper
128 100
127 16.8 10.5 15.7
129 10.6 9.1 13.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/12/2024
Supervised By :Mahesh Dadoda 06/12/2024

