

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041991.D
 Acq On : 10 Feb 2025 16:50
 Operator : SY/MD
 Sample : Q1303-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:26:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

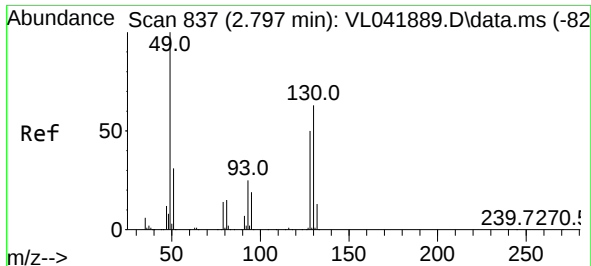
QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

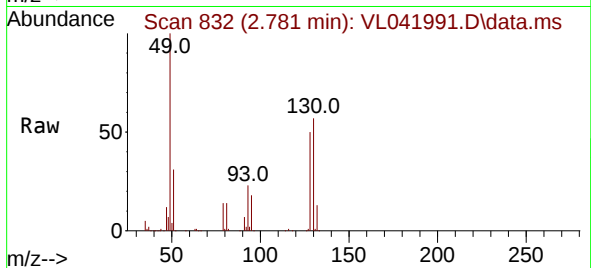
Internal Standards						
1) Bromochloromethane	2.781	49	137412	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	391979	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.875	117	332286	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	245935	9.397	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.000%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	8773	0.469	ppbv	97
4) Chloromethane	1.528	50	4166	0.592	ppbv	92
9) Propene	1.483	41	12742m	1.577	ppbv	
10) Heptane	4.965	43	8089m	0.375	ppbv	
11) Trichlorofluoromethane	1.874	101	4497	0.231	ppbv	88
13) Ethanol	1.719	45	379767	641.882	ppbv	87
15) Acetone	1.829	43	1573380	95.332	ppbv #	85
17) tert-Butyl alcohol	2.043	59	2416m	0.119	ppbv	
19) Isopropyl Alcohol	1.881	45	842038	86.048	ppbv #	66
20) Methylene Chloride	2.056	84	13805	2.117	ppbv	94
25) Ethyl Acetate	2.832	43	222539	5.000	ppbv #	93
34) 2-Butanone	2.554	43	8013	0.321	ppbv	96
35) Carbon Tetrachloride	3.752	117	1632	0.066	ppbv #	50
36) Benzene	3.645	78	14383	0.400	ppbv	94
44) 2,2,4-Trimethylpentane	4.632	57	8568	0.147	ppbv #	75
52) Tetrachloroethene	8.218	164	9202m	0.738	ppbv	
53) Toluene	6.920	91	28898m	0.738	ppbv	
59) m/p-Xylene	9.526	91	12192m	0.293	ppbv	
60) o-Xylene	9.960	91	4970	0.120	ppbv	90

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.016 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

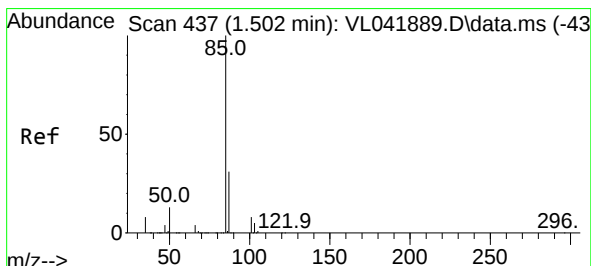
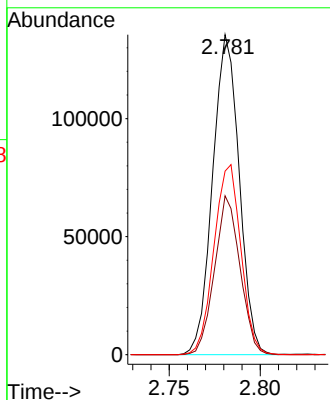
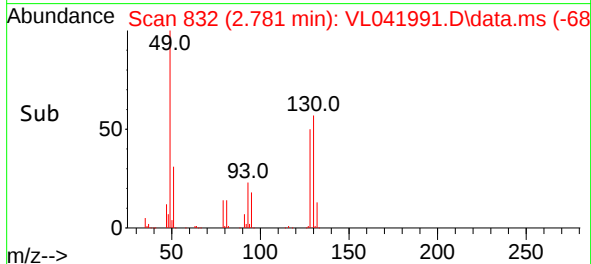
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 49 Resp: 13741
Ion Ratio Lower Upper
49 100
128 47.5 24.3 73.0
130 60.3 31.1 93.2

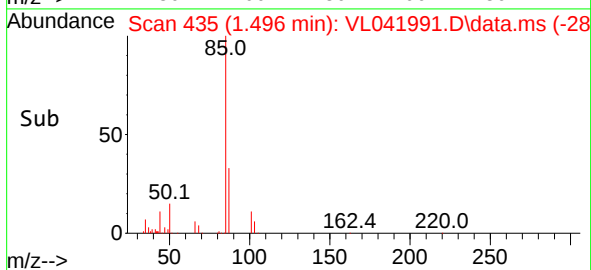
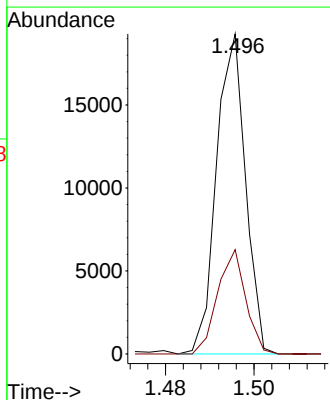
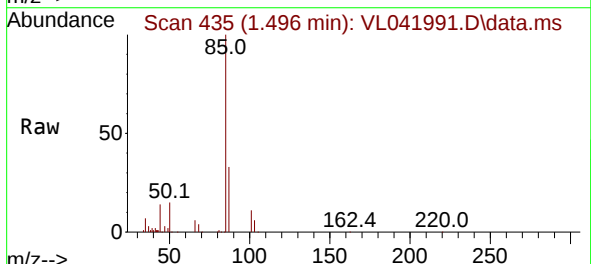
Manual Integrations
APPROVED

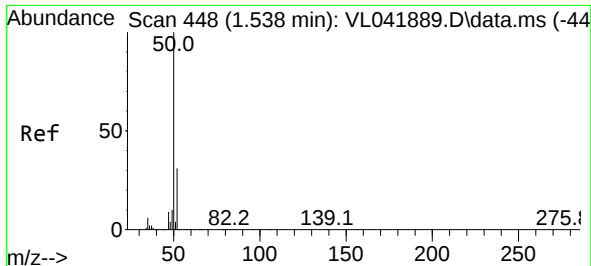
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 0.469 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

Tgt Ion: 85 Resp: 8773
Ion Ratio Lower Upper
85 100
87 32.6 24.9 37.3





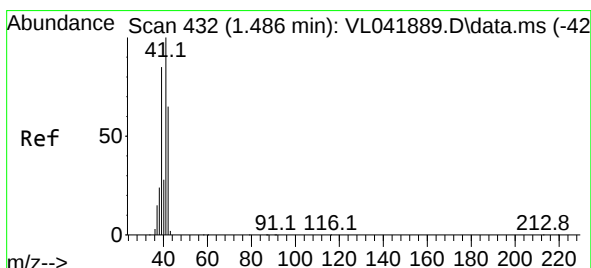
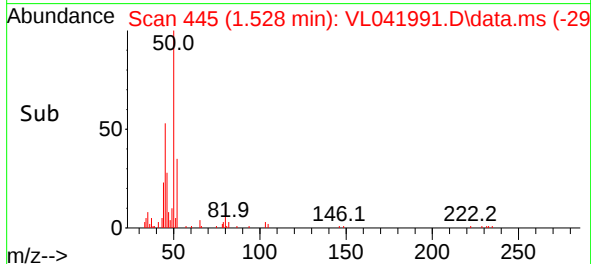
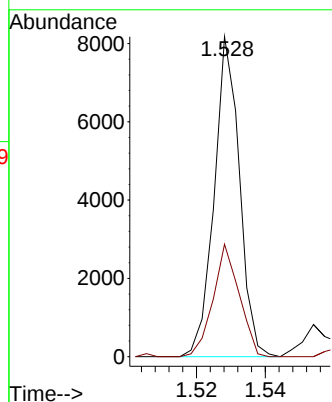
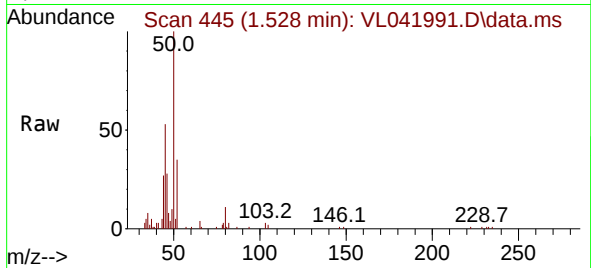
#4
Chloromethane
Concen: 0.592 ppbv
RT: 1.528 min Scan# 448
Delta R.T. -0.009 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 50 Resp: 4160
Ion Ratio Lower Upper
50 100
52 35.2 24.6 36.8

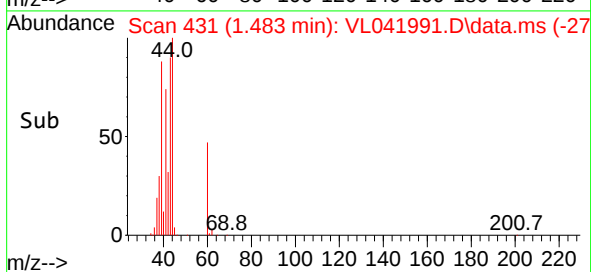
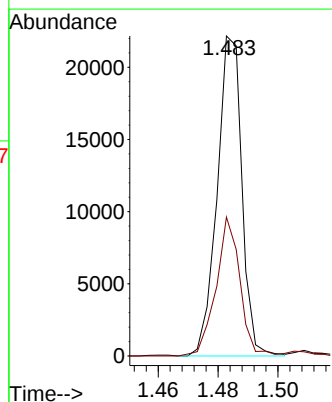
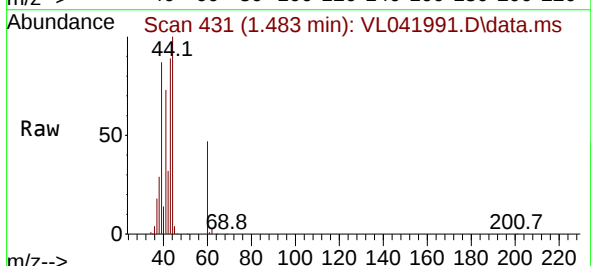
Manual Integrations
APPROVED

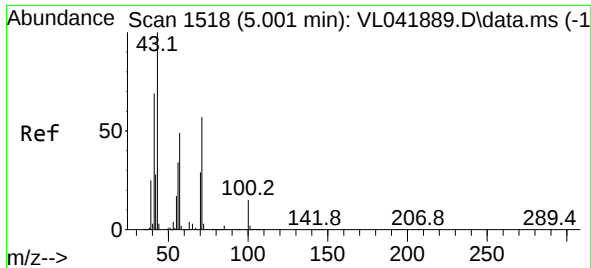
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#9
Propene
Concen: 1.577 ppbv m
RT: 1.483 min Scan# 431
Delta R.T. -0.003 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

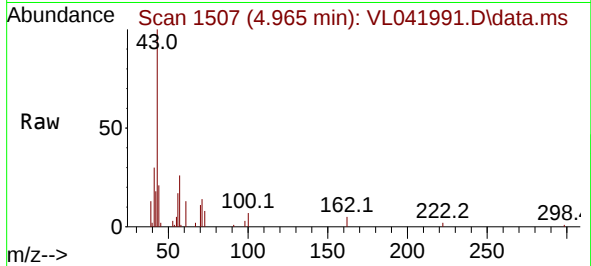
Tgt Ion: 41 Resp: 12742
Ion Ratio Lower Upper
41 100
42 101.0 52.0 78.0#





#10
Heptane
Concen: 0.375 ppbv m
RT: 4.965 min Scan# 1518
Delta R.T. -0.035 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

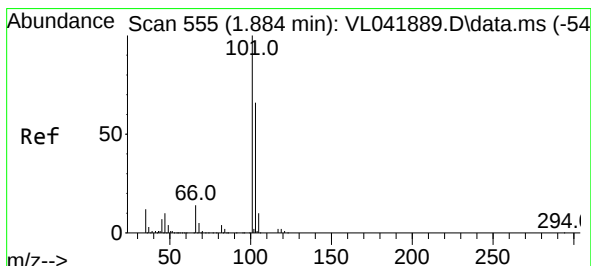
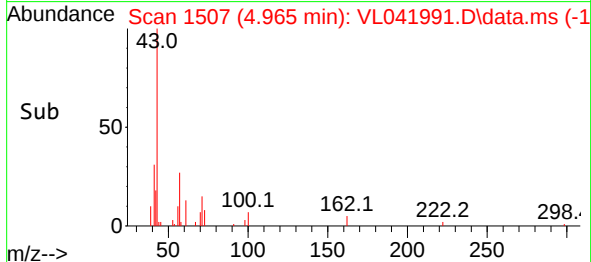
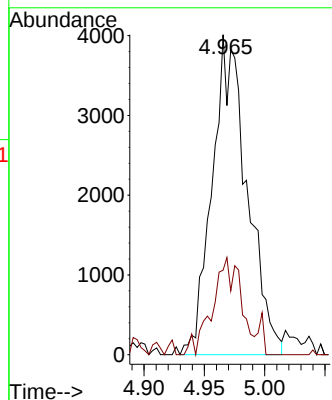
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 43 Resp: 8089
Ion Ratio Lower Upper
43 100
57 26.8 41.0 61.4

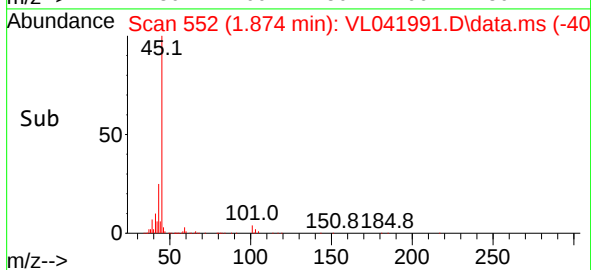
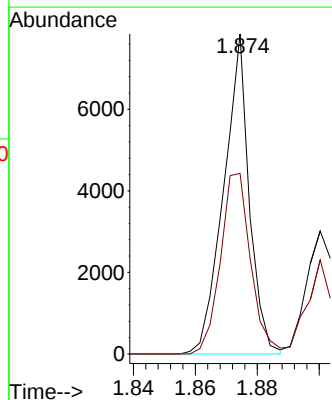
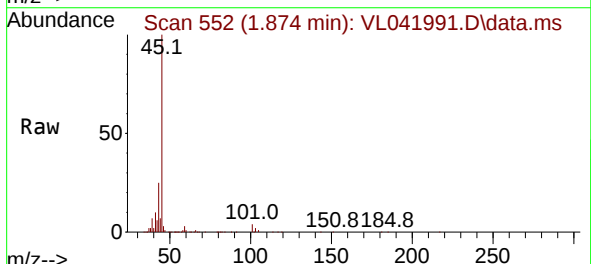
Manual Integrations
APPROVED

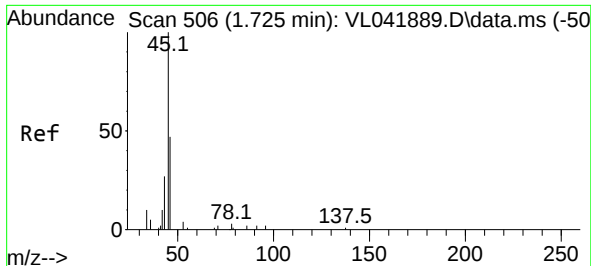
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#11
Trichlorofluoromethane
Concen: 0.231 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.009 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

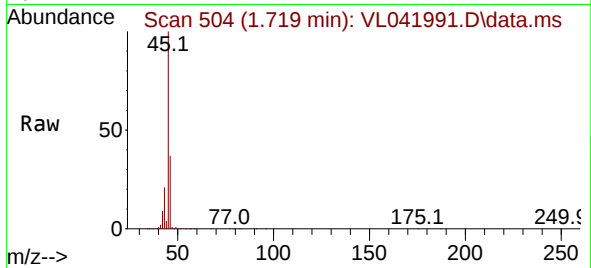
Tgt Ion:101 Resp: 4497
Ion Ratio Lower Upper
101 100
103 56.5 53.1 79.7





#13
Ethanol
Concen: 641.882 ppbv
RT: 1.719 min Scan# 506
Delta R.T. -0.006 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

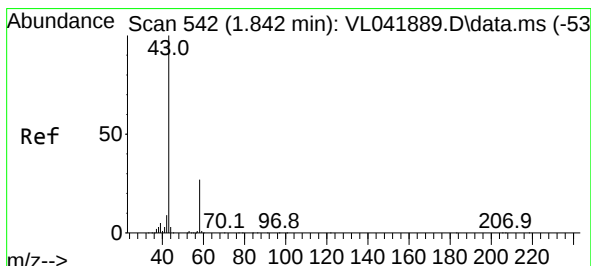
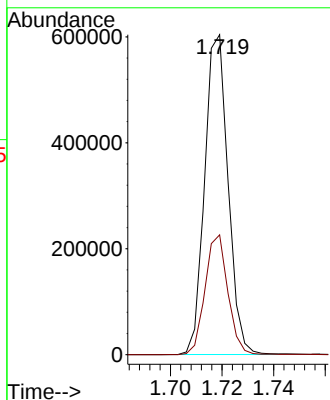
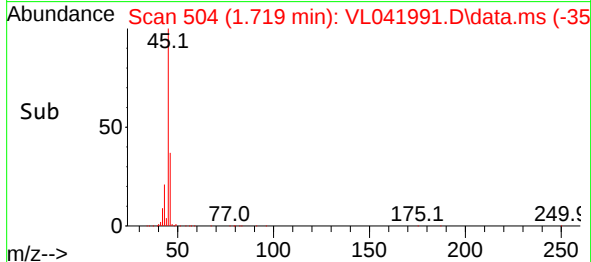
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 45 Resp: 37976
Ion Ratio Lower Upper
45 100
46 36.9 18.1 72.5

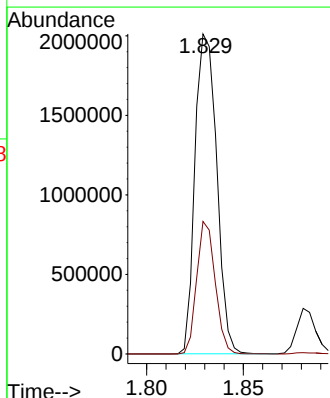
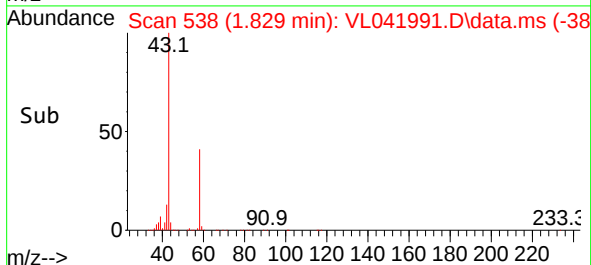
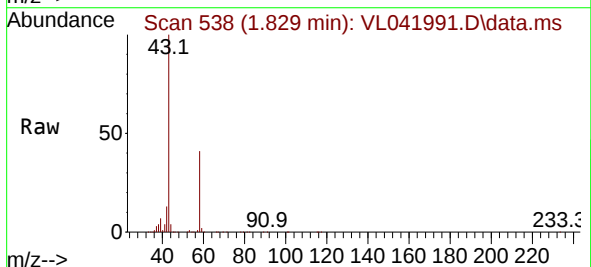
Manual Integrations
APPROVED

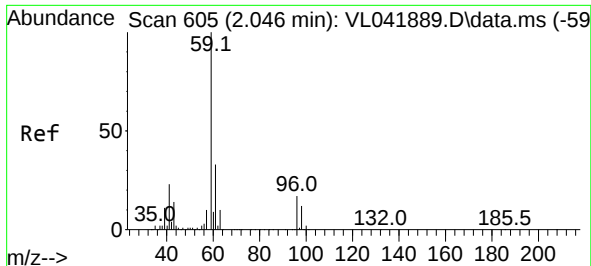
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#15
Acetone
Concen: 95.332 ppbv
RT: 1.829 min Scan# 538
Delta R.T. -0.013 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

Tgt Ion: 43 Resp: 1573380
Ion Ratio Lower Upper
43 100
58 35.3 21.9 32.9#





#17

tert-Butyl alcohol

Concen: 0.119 ppbv m

RT: 2.043 min Scan# 605

Delta R.T. -0.003 min

Lab File: VL041991.D

Acq: 10 Feb 2025 16:50

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 59 Resp: 2410

Ion Ratio Lower Upper

59 100

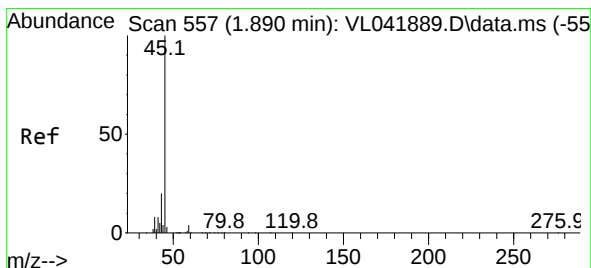
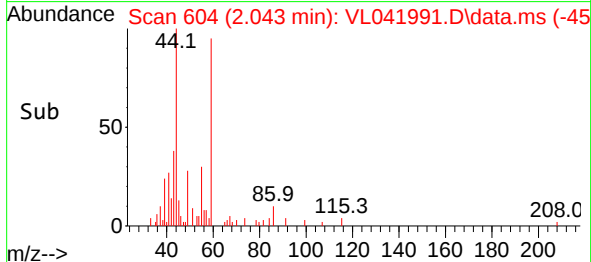
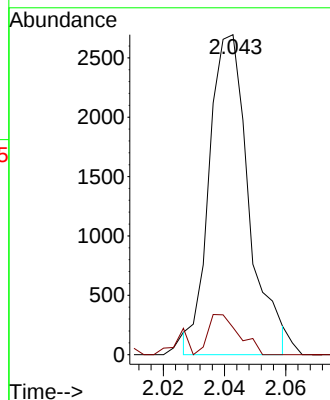
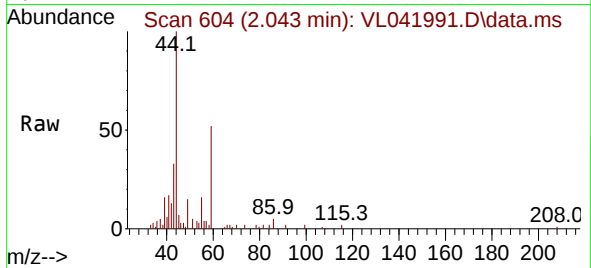
57 0.0 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#19

Isopropyl Alcohol

Concen: 86.048 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.009 min

Lab File: VL041991.D

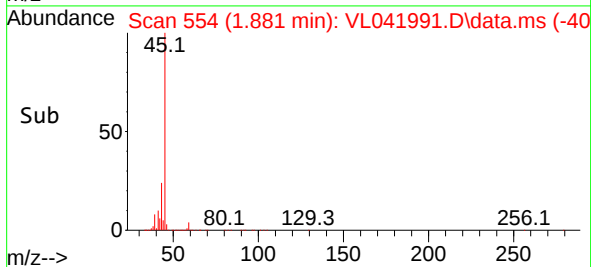
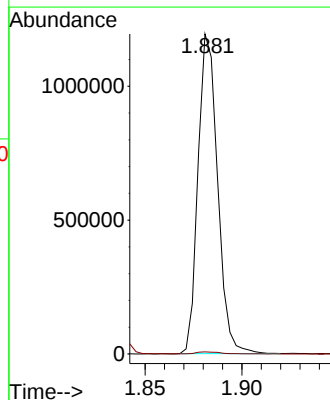
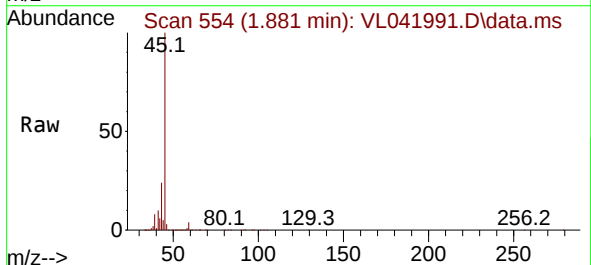
Acq: 10 Feb 2025 16:50

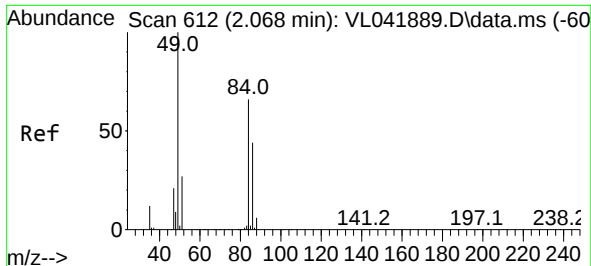
Tgt Ion: 45 Resp: 842038

Ion Ratio Lower Upper

45 100

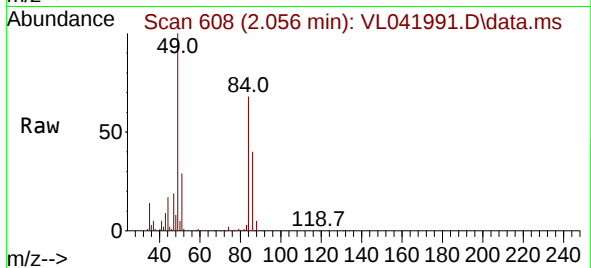
58 66.0 35.0 52.6





#20
Methylene Chloride
Concen: 2.117 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.013 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

Instrument :
MSVOA_L
ClientSampleId :
IA2

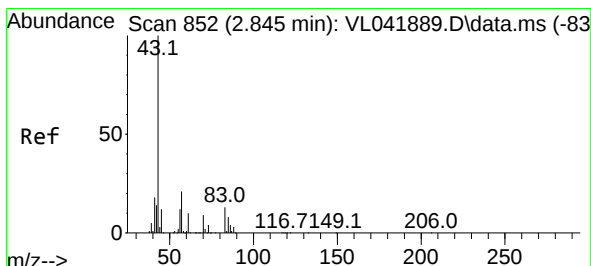
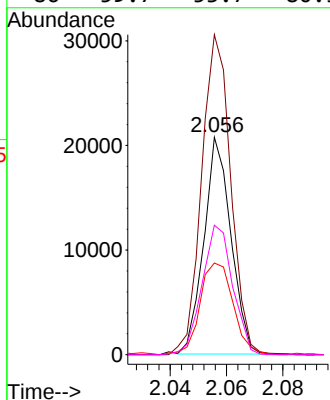
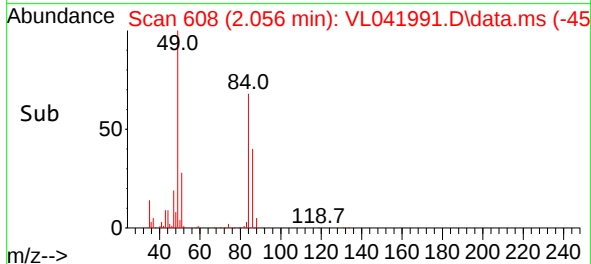


Tgt Ion: 84 Resp: 1380

Ion	Ratio	Lower	Upper
84	100		
49	147.1	123.1	184.7
51	42.3	35.8	53.8
86	59.7	53.7	80.5

Manual Integrations
APPROVED

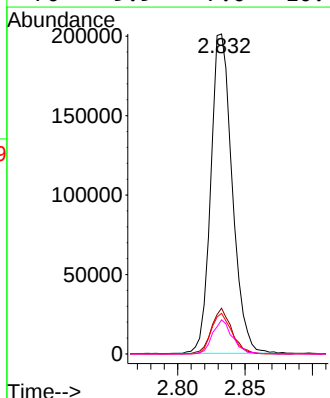
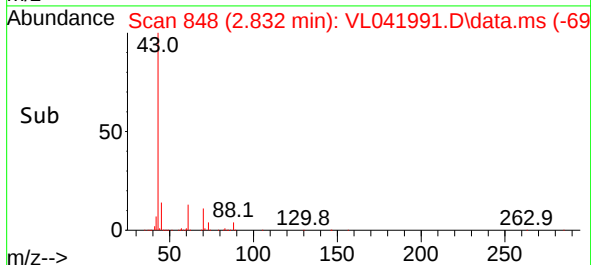
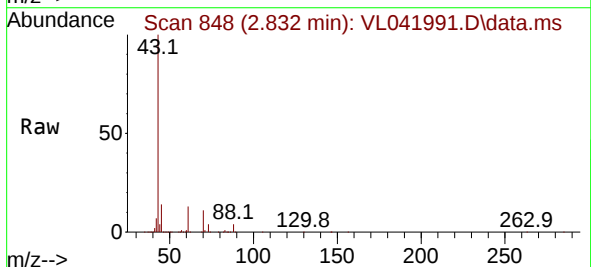
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

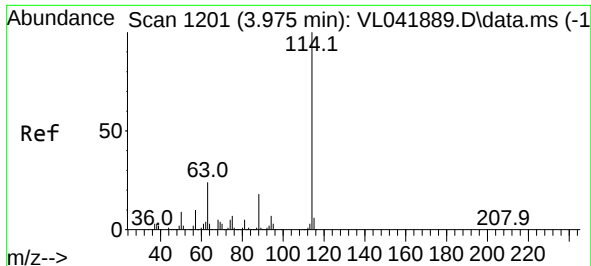


#25
Ethyl Acetate
Concen: 5.000 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.013 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

Tgt Ion: 43 Resp: 222539

Ion	Ratio	Lower	Upper
43	100		
45	13.8	8.2	12.2#
61	12.3	7.4	11.0#
70	9.9	7.0	10.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1119

Delta R.T. -0.026 min

Lab File: VL041991.D

Acq: 10 Feb 2025 16:50

Instrument :

MSVOA_L

ClientSampleId :

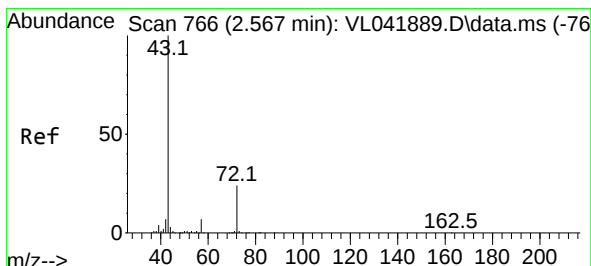
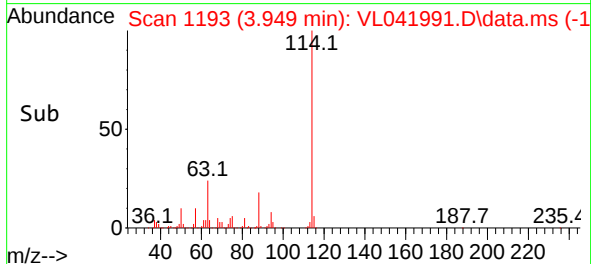
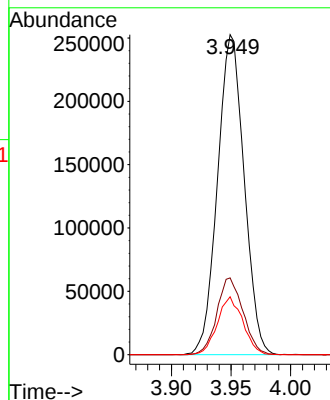
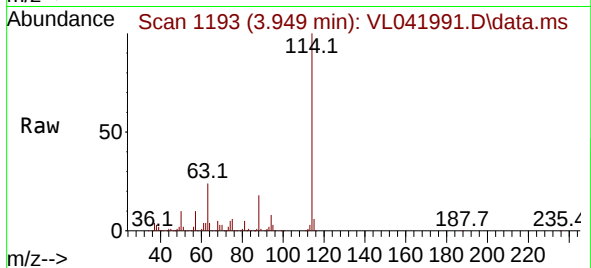
IA2

Tgt Ion:	114	Resp:	391979
Ion	Ratio	Lower	Upper
114	100		
63	23.6	19.8	29.6
88	17.3	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#34

2-Butanone

Concen: 0.321 ppbv

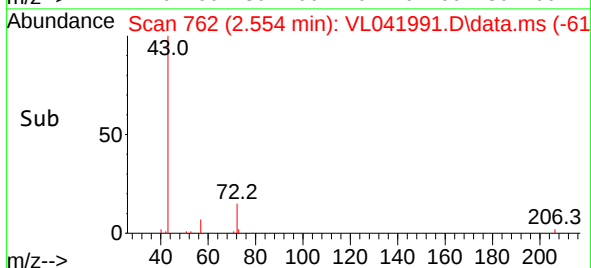
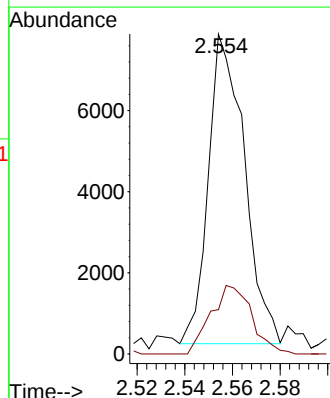
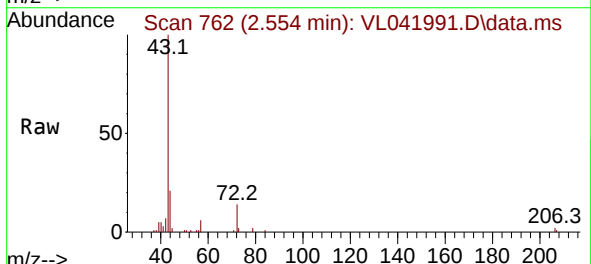
RT: 2.554 min Scan# 762

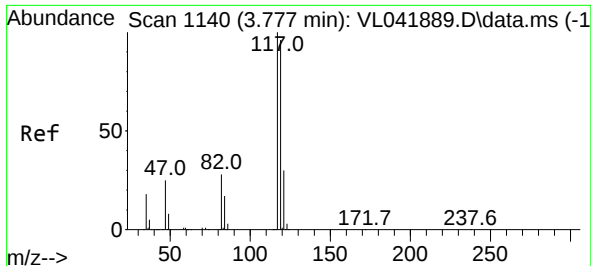
Delta R.T. -0.013 min

Lab File: VL041991.D

Acq: 10 Feb 2025 16:50

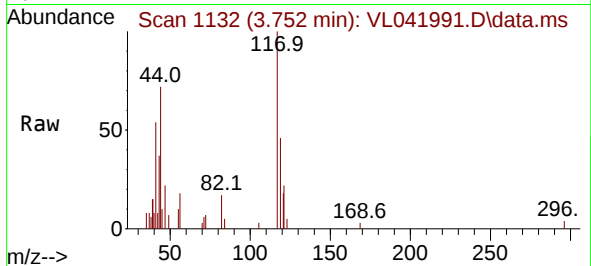
Tgt Ion:	43	Resp:	8013
Ion	Ratio	Lower	Upper
43	100		
72	25.1	18.6	28.0





#35
Carbon Tetrachloride
Concen: 0.066 ppbv
RT: 3.752 min Scan# 1132
Delta R.T. -0.026 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

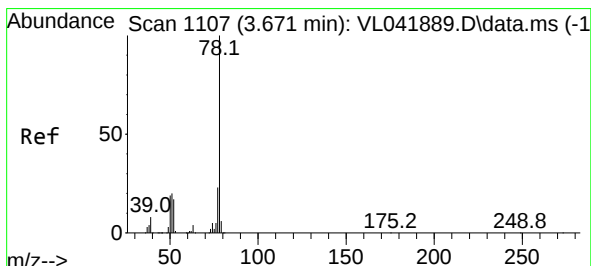
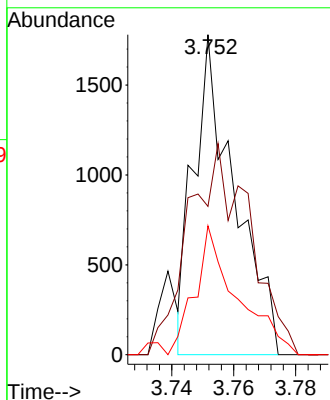
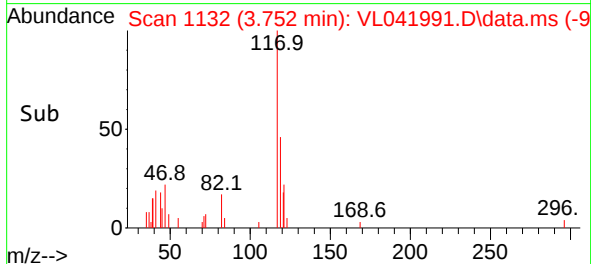
Instrument :
MSVOA_L
ClientSampleId :
IA2



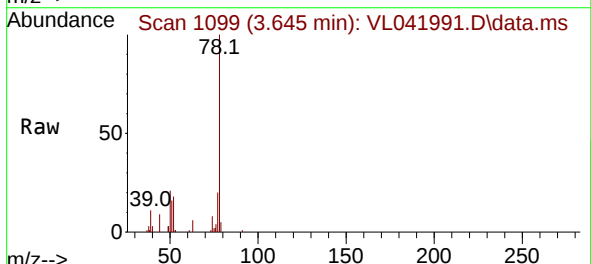
Tgt Ion: 117 Resp: 1632
Ion Ratio Lower Upper
117 100
119 34.4 76.9 115.3
121 34.6 23.8 35.6

Manual Integrations
APPROVED

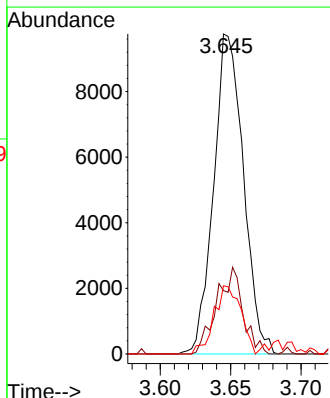
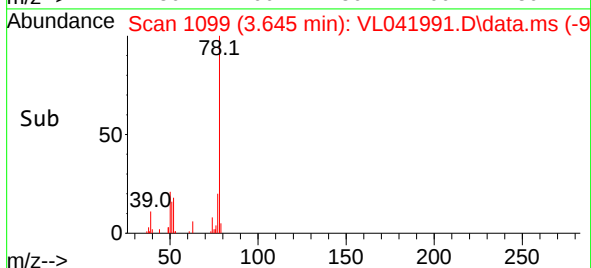
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

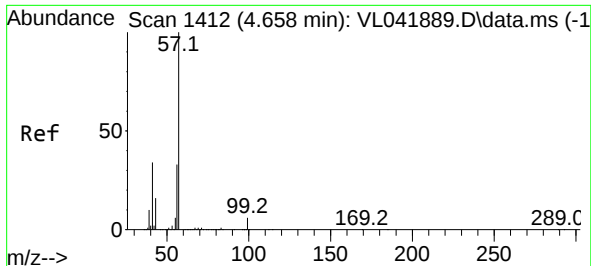


#36
Benzene
Concen: 0.400 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.026 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50



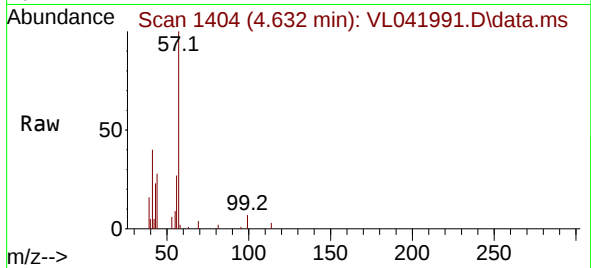
Tgt Ion: 78 Resp: 14383
Ion Ratio Lower Upper
78 100
77 19.8 18.1 27.1
50 21.3 15.2 22.8





#44
2,2,4-Trimethylpentane
Concen: 0.147 ppbv
RT: 4.632 min Scan# 1412
Delta R.T. -0.026 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

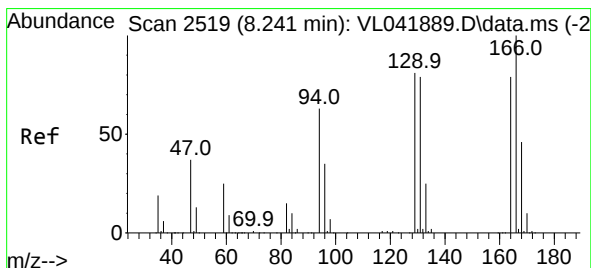
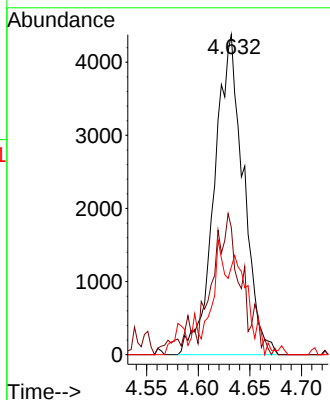
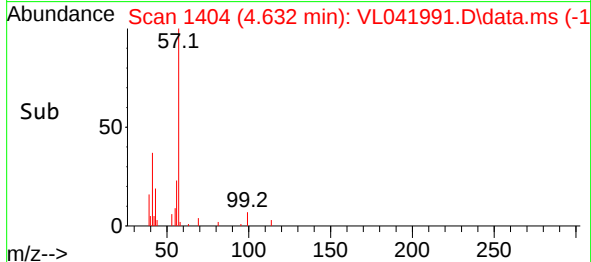
Instrument :
MSVOA_L
ClientSampleId :
IA2



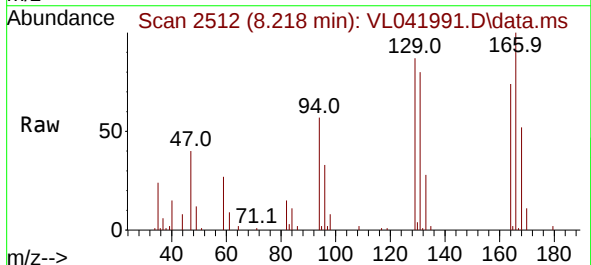
Tgt Ion: 57 Resp: 856
Ion Ratio Lower Upper
57 100
41 49.9 26.6 40.0
56 43.7 25.4 38.2

Manual Integrations
APPROVED

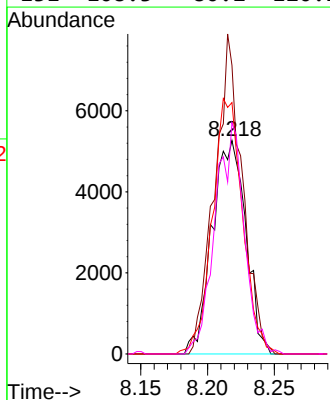
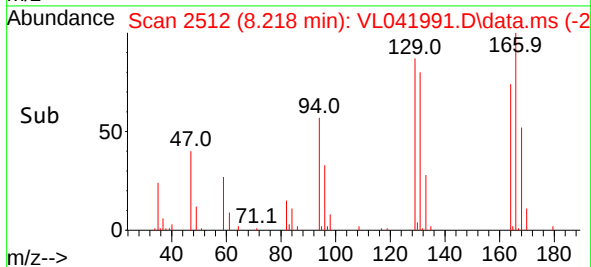
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

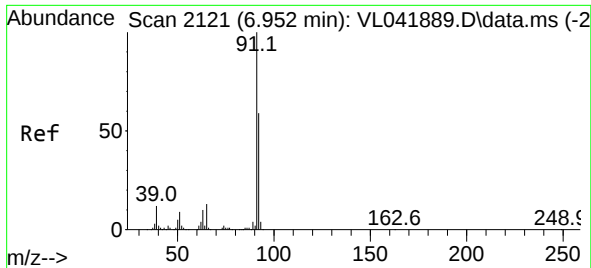


#52
Tetrachloroethene
Concen: 0.738 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. -0.022 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50



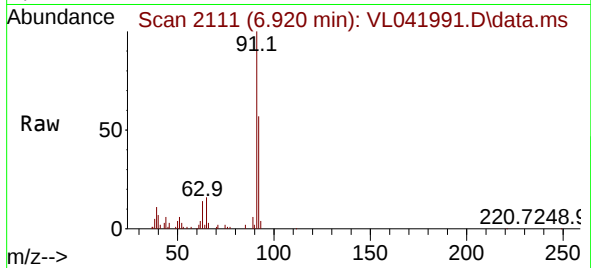
Tgt Ion:164 Resp: 9202
Ion Ratio Lower Upper
164 100
166 135.2 100.8 151.2
129 117.7 82.0 123.0
131 108.3 80.2 120.2





#53
Toluene
Concen: 0.738 ppbv m
RT: 6.920 min Scan# 2111
Delta R.T. -0.032 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

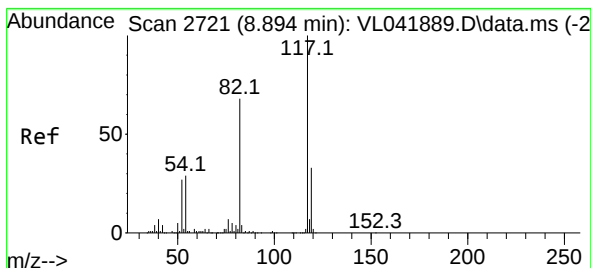
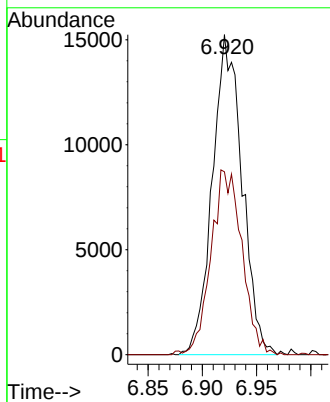
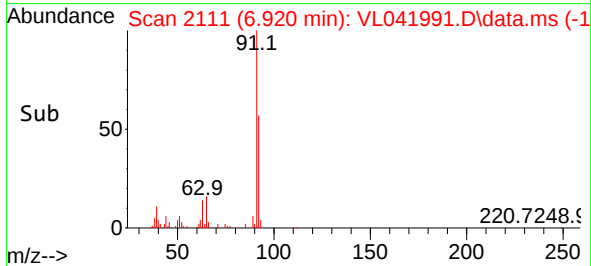
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 91 Resp: 28898
Ion Ratio Lower Upper
91 100
92 60.3 47.4 71.0

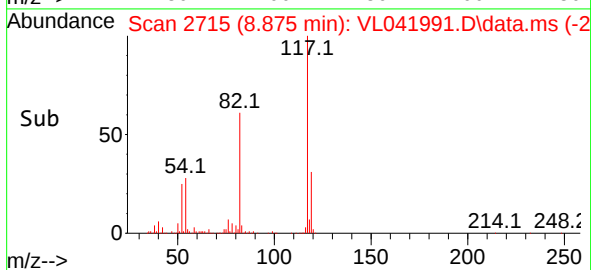
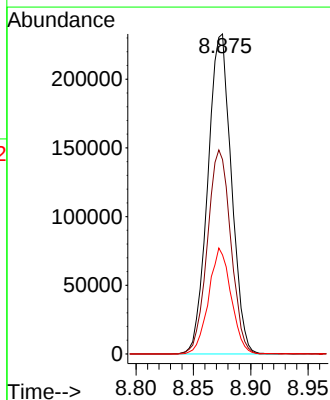
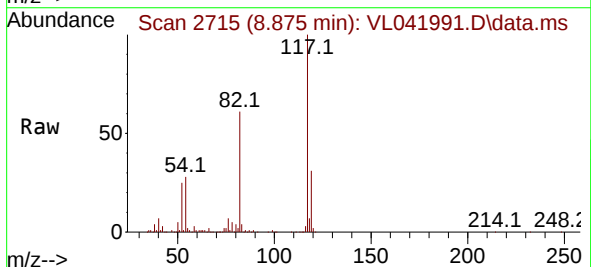
Manual Integrations
APPROVED

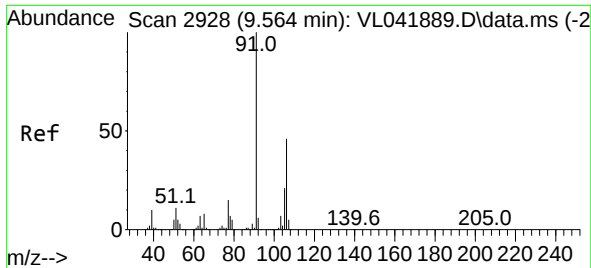
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.019 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

Tgt Ion:117 Resp: 332286
Ion Ratio Lower Upper
117 100
82 63.7 54.2 81.4
119 31.8 25.0 37.6





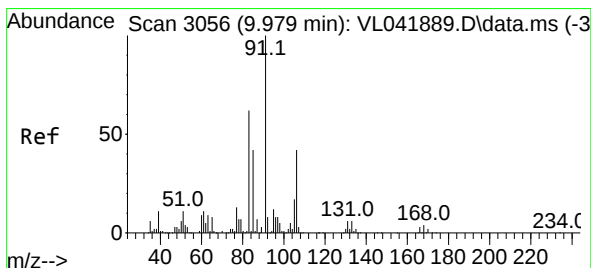
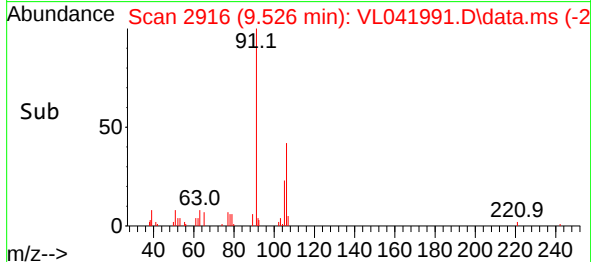
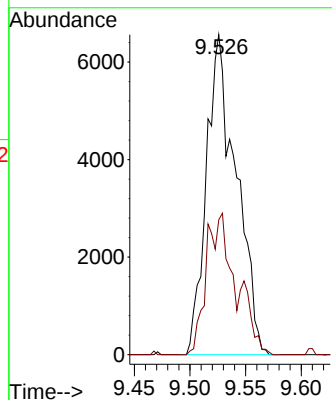
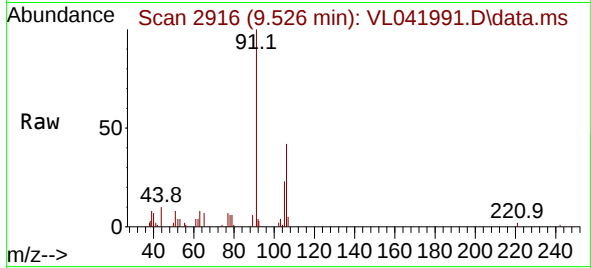
#59
m/p-Xylene
Concen: 0.293 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.039 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 91 Resp: 1219
Ion Ratio Lower Upper
91 100
106 0.0 36.0 54.0

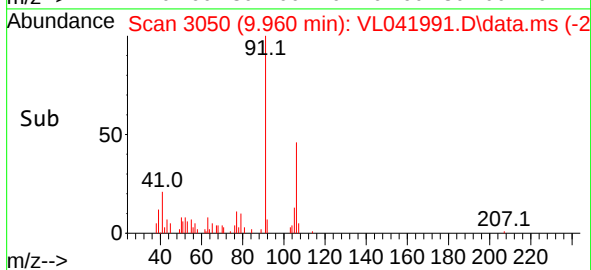
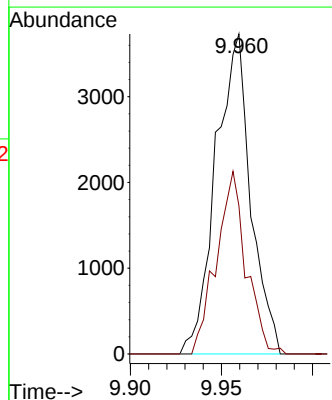
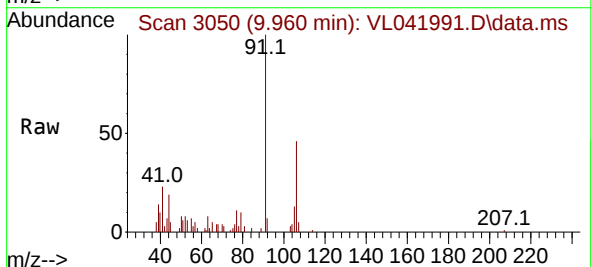
Manual Integrations
APPROVED

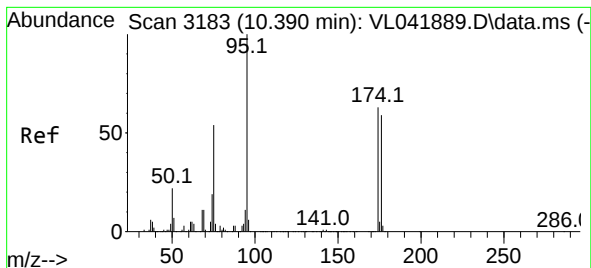
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#60
o-Xylene
Concen: 0.120 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. -0.019 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

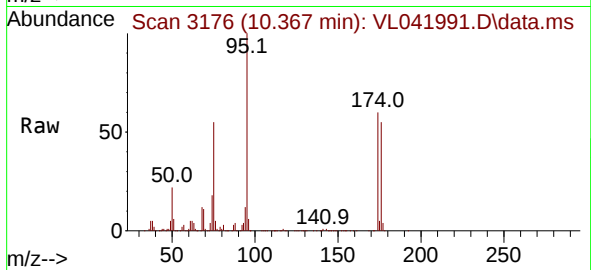
Tgt Ion: 91 Resp: 4970
Ion Ratio Lower Upper
91 100
106 48.7 21.3 63.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.397 ppbv
 RT: 10.367 min Scan# 3183
 Delta R.T. -0.022 min
 Lab File: VL041991.D
 Acq: 10 Feb 2025 16:50

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion: 95 Resp: 245938
 Ion Ratio Lower Upper
 95 100
 174 61.0 49.0 73.4
 175 4.6 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

