

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042401.D
 Acq On : 21 Apr 2025 12:51
 Operator : SY/MD
 Sample : Q1801-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 02:53:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	122041	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	337832	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	286610	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	248812	10.564	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2467	0.114	ppbv	97
9) Propene	1.486	41	1848	0.198	ppbv	88
13) Ethanol	1.722	45	11547	7.769	ppbv #	24
15) Acetone	1.835	43	29636	1.483	ppbv	97
17) tert-Butyl alcohol	2.042	59	3820	0.154	ppbv #	71
19) Isopropyl Alcohol	1.887	45	9166	0.826	ppbv #	17
20) Methylene Chloride	2.059	84	1438	0.184	ppbv #	86
23) Vinyl Acetate	2.463	43	6182	0.764	ppbv #	74
26) Hexane	2.822	57	20551	1.031	ppbv #	24
29) Chloroform	2.848	83	3530	0.125	ppbv #	67
34) 2-Butanone	2.563	43	3442	0.129	ppbv #	77
52) Tetrachloroethene	8.221	164	14958	1.062	ppbv	89
53) Toluene	6.933	91	15319m	0.350	ppbv	
59) m/p-Xylene	9.522	91	11844m	0.259	ppbv	
60) o-Xylene	9.962	91	5177	0.112	ppbv	95
74) 1,2,4-Trimethylbenzene	11.535	105	13013	0.224	ppbv #	63

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

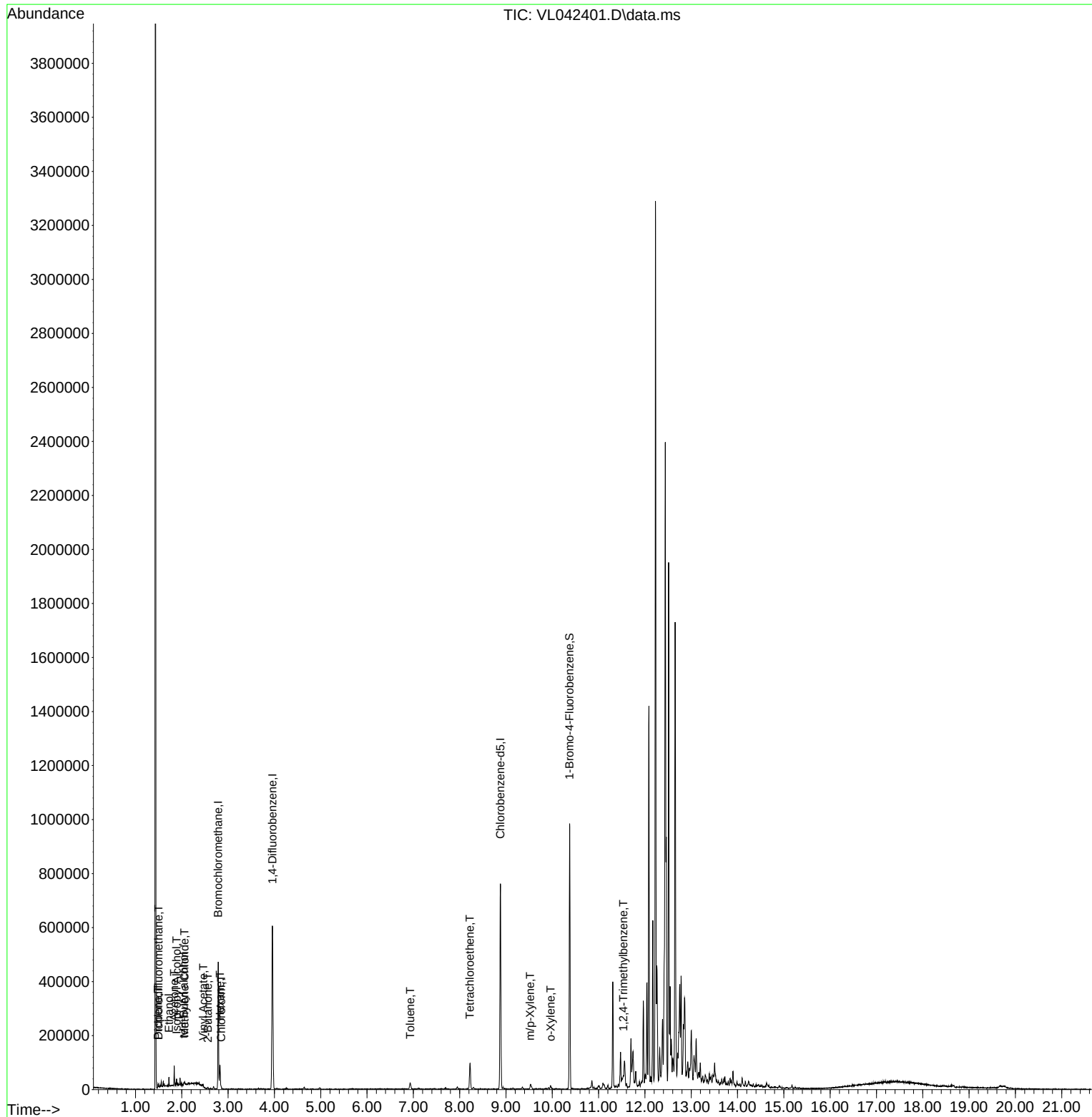
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
Data File : VL042401.D
Acq On : 21 Apr 2025 12:51
Operator : SY/MD
Sample : Q1801-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

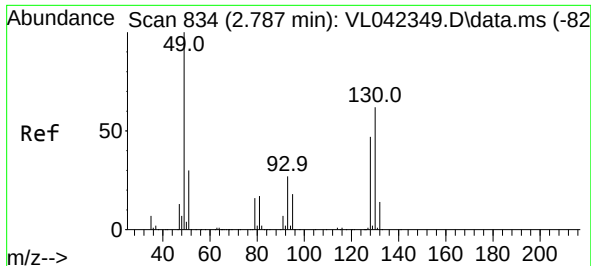
Instrument :
MSVOA_L
ClientSampleId :
SS3

Quant Time: Apr 22 02:53:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Manual Integrations
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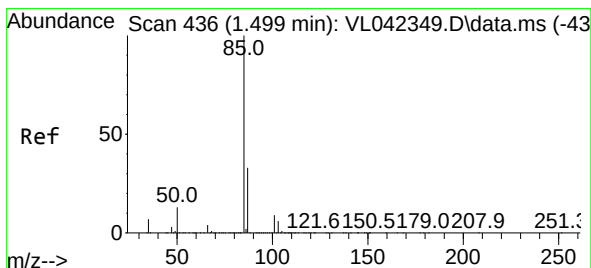
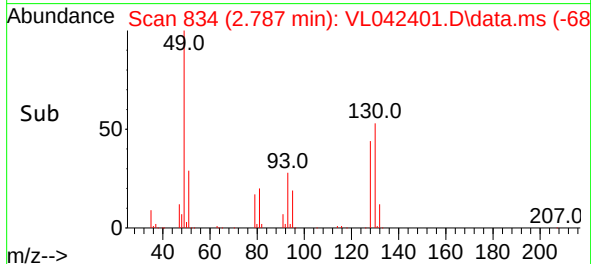
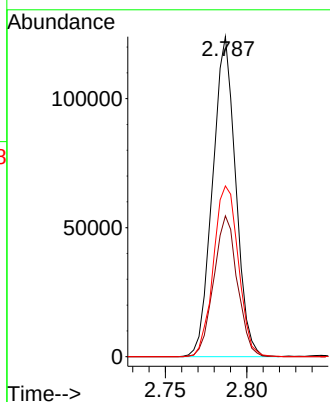
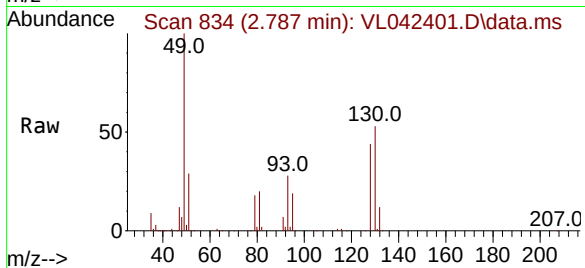
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042401.D
Acq: 21 Apr 2025 12:51

Instrument :
MSVOA_L
ClientSampleId :
SS3

Tgt Ion: 49 Resp: 12204
Ion Ratio Lower Upper
49 100
128 44.9 22.8 68.4
130 57.5 29.3 88.0

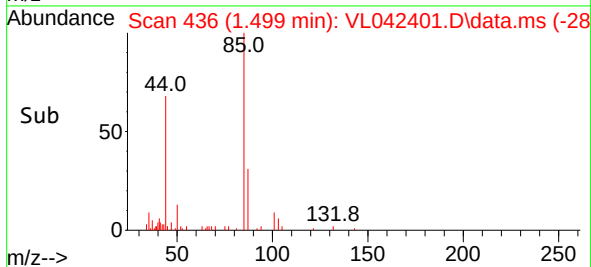
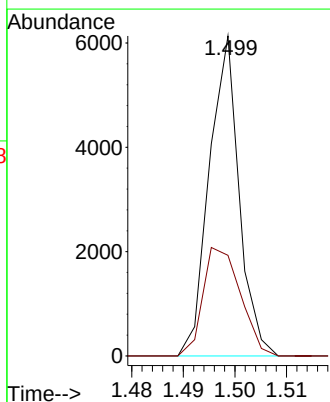
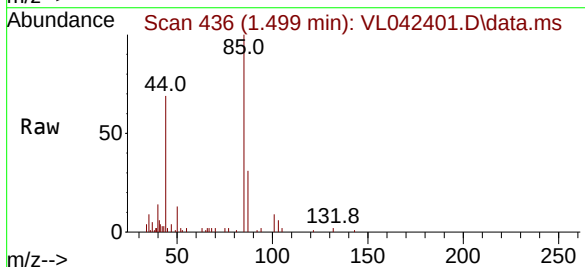
Manual Integrations
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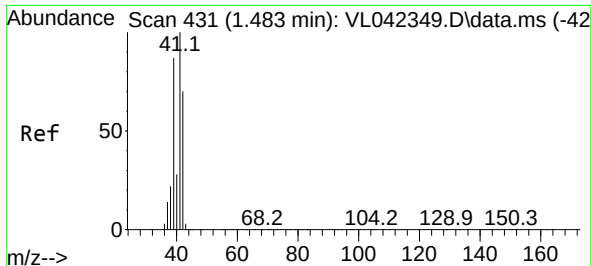
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#2
Dichlorodifluoromethane
Concen: 0.114 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042401.D
Acq: 21 Apr 2025 12:51

Tgt Ion: 85 Resp: 2467
Ion Ratio Lower Upper
85 100
87 31.5 26.6 39.8





#9

Propene

Concen: 0.198 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042401.D

Acq: 21 Apr 2025 12:51

Instrument :

MSVOA_L

ClientSampleId :

SS3

Tgt Ion: 41 Resp: 184

Ion Ratio Lower Upper

41 100

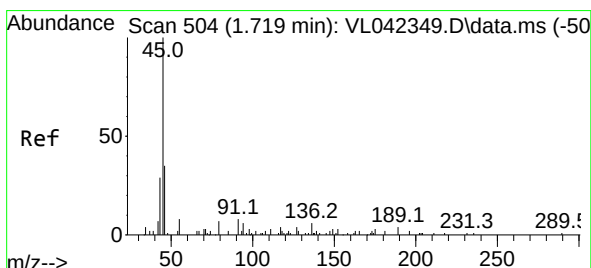
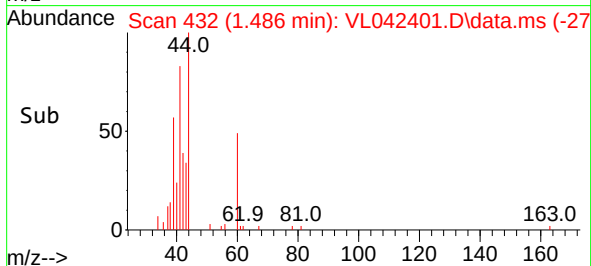
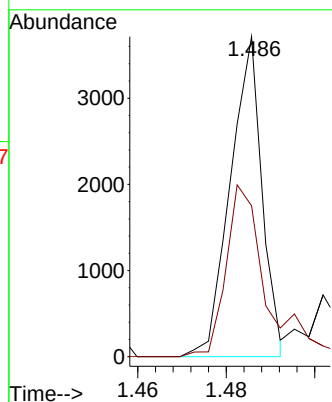
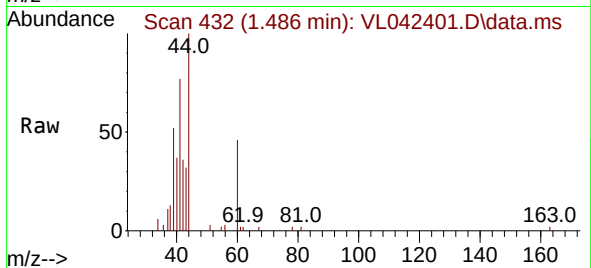
42 80.0 56.2 84.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/22/2025

Supervised By :Mahesh Dadoda 04/22/2025



#13

Ethanol

Concen: 7.769 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042401.D

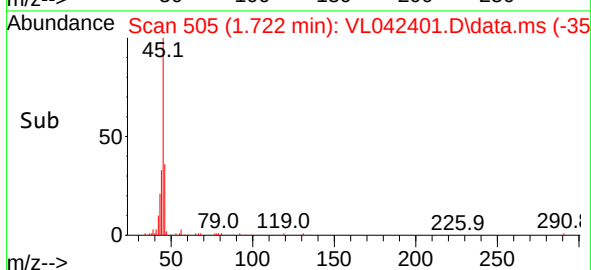
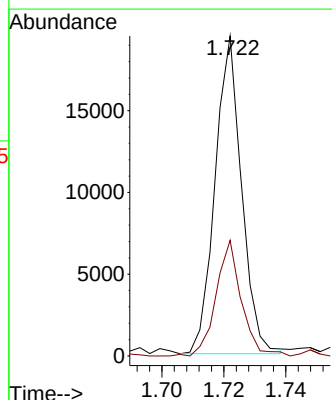
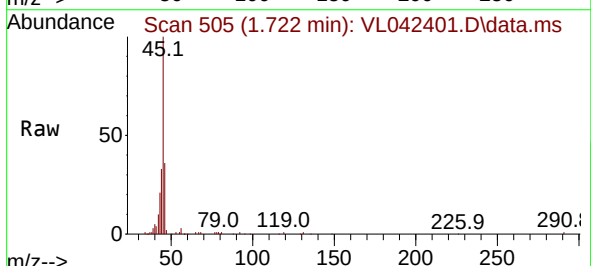
Acq: 21 Apr 2025 12:51

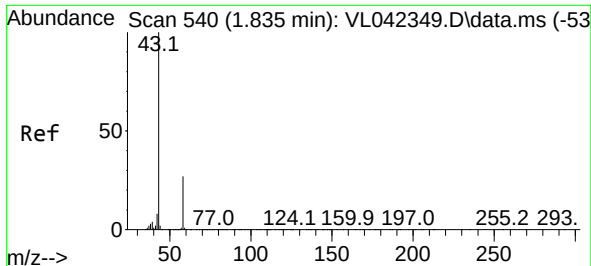
Tgt Ion: 45 Resp: 11547

Ion Ratio Lower Upper

45 100

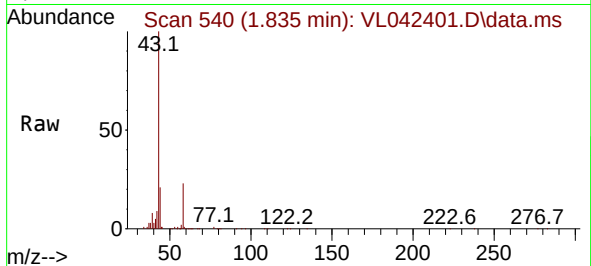
46 0.0 21.9 87.7#





#15
Acetone
Concen: 1.483 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042401.D
Acq: 21 Apr 2025 12:51

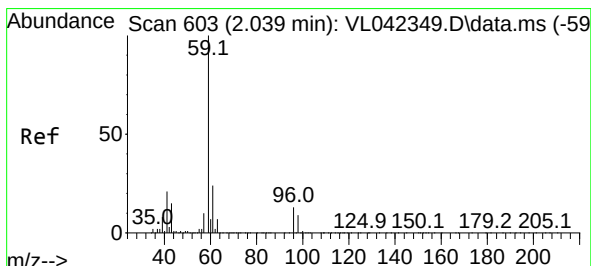
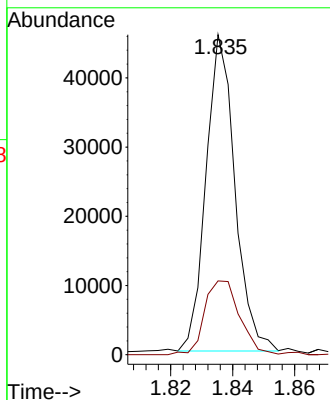
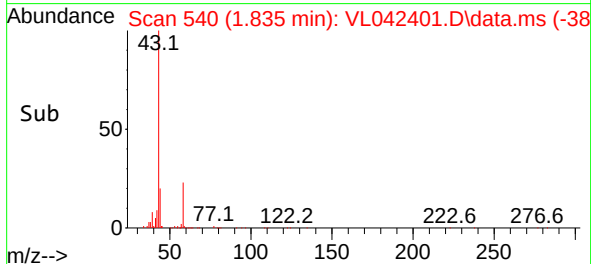
Instrument :
MSVOA_L
ClientSampleId :
SS3



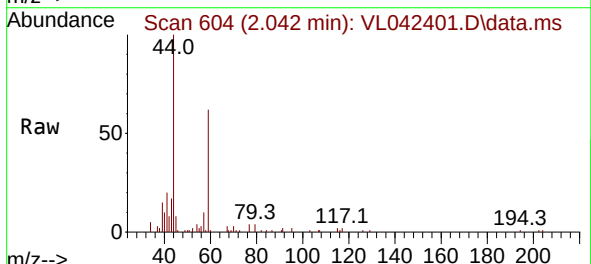
Tgt Ion: 43 Resp: 29630
Ion Ratio Lower Upper
43 100
58 29.8 22.4 33.6

Manual Integrations
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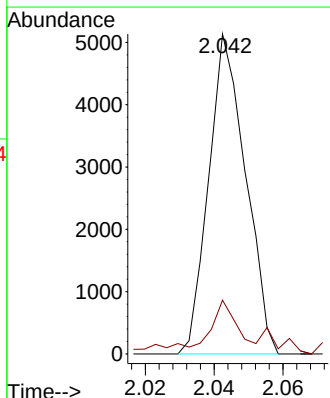
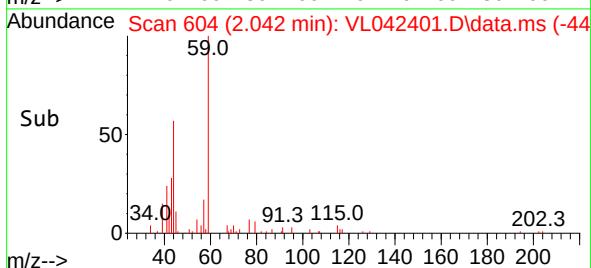
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

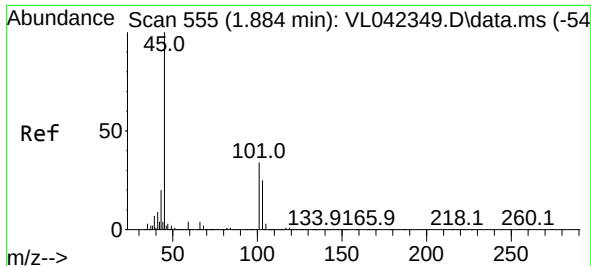


#17
tert-Butyl alcohol
Concen: 0.154 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042401.D
Acq: 21 Apr 2025 12:51



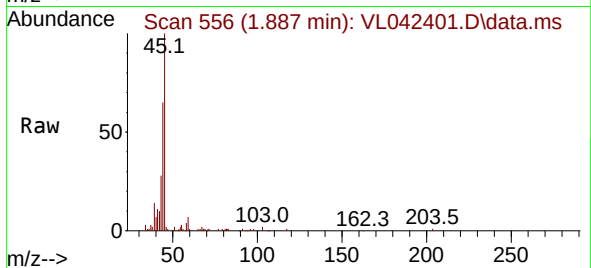
Tgt Ion: 59 Resp: 3820
Ion Ratio Lower Upper
59 100
57 22.0 8.7 13.1#





#19
Isopropyl Alcohol
Concen: 0.826 ppbv
RT: 1.887 min Scan# 516
Delta R.T. 0.003 min
Lab File: VL042401.D
Acq: 21 Apr 2025 12:51

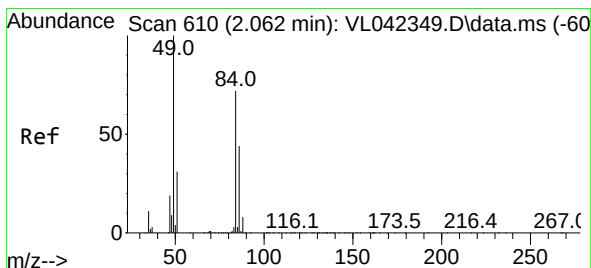
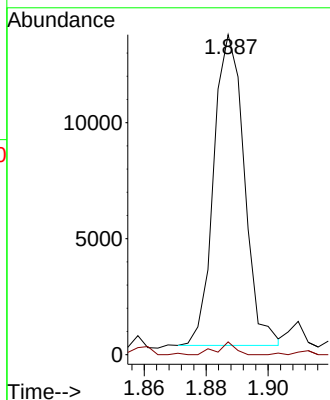
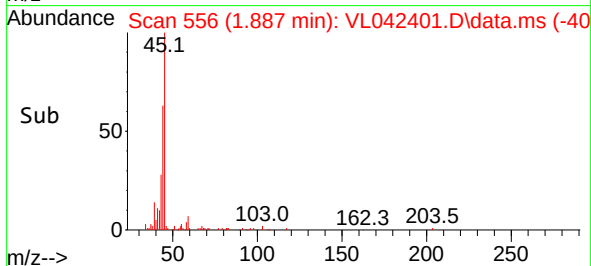
Instrument :
MSVOA_L
ClientSampleId :
SS3



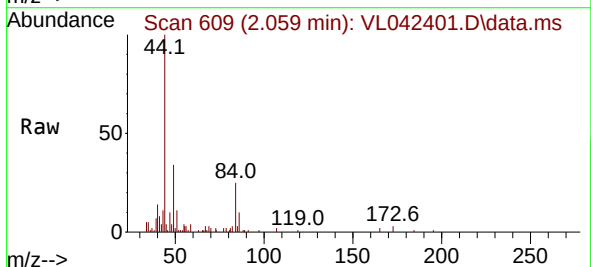
Tgt Ion: 45 Resp: 9160
Ion Ratio Lower Upper
45 100
58 96.2 34.5 51.7

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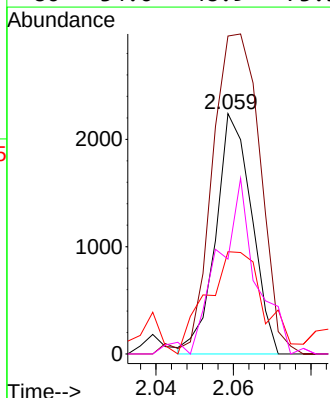
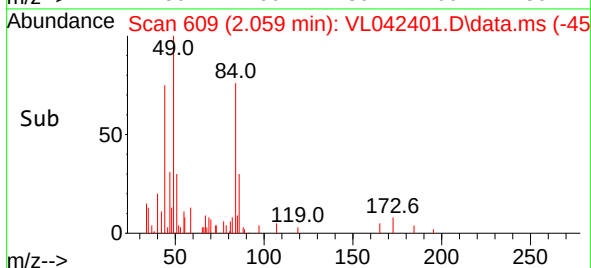
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

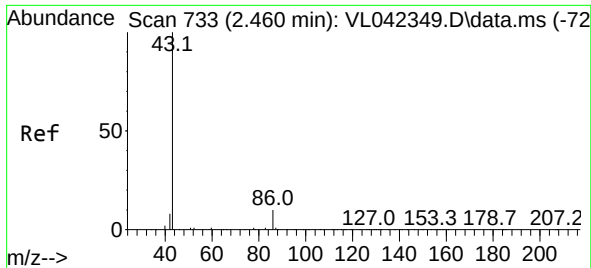


#20
Methylene Chloride
Concen: 0.184 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042401.D
Acq: 21 Apr 2025 12:51



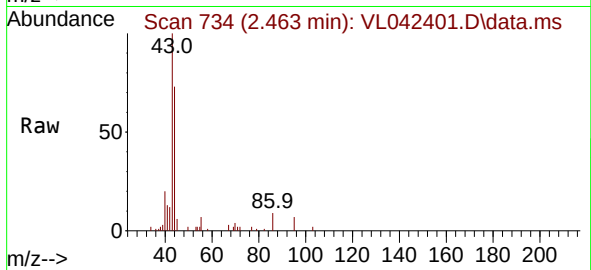
Tgt Ion: 84 Resp: 1438
Ion Ratio Lower Upper
84 100
49 130.0 111.6 167.4
51 42.5 35.1 52.7
86 34.6 48.9 73.3





#23
 Vinyl Acetate
 Concen: 0.764 ppbv
 RT: 2.463 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL042401.D
 Acq: 21 Apr 2025 12:51

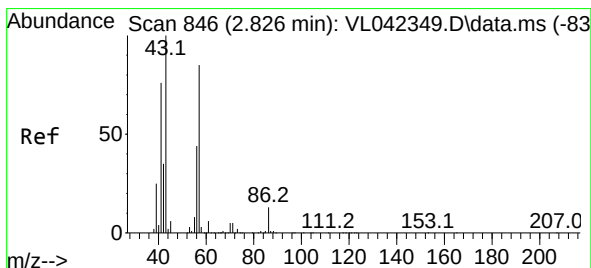
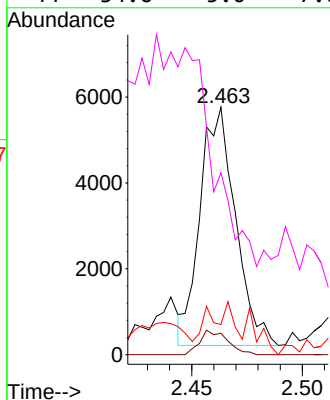
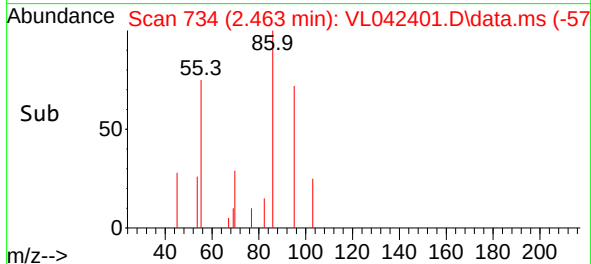
Instrument :
 MSVOA_L
 ClientSampleId :
 SS3



Tgt Ion: 43 Resp: 618
 Ion Ratio Lower Upper
 43 100
 86 9.0 6.5 9.7
 42 12.7 7.8 11.8
 44 34.6 5.0 7.6#

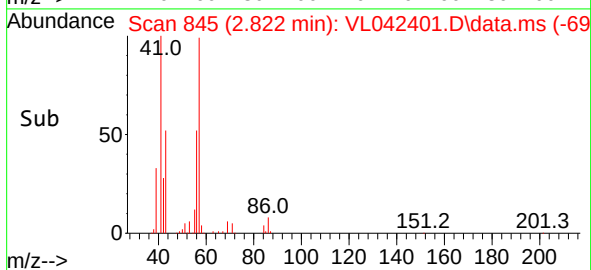
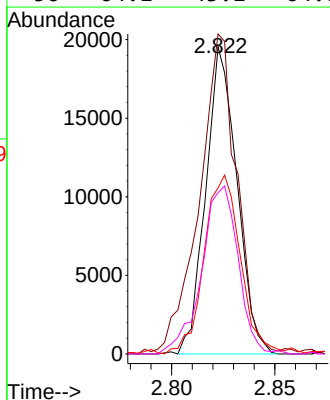
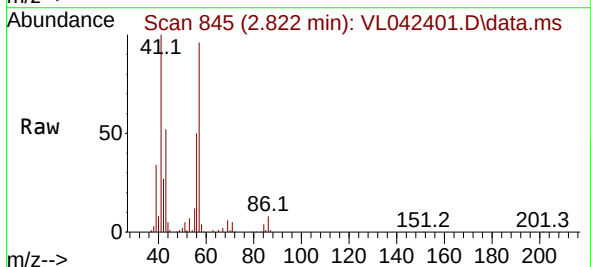
Manual Integrations
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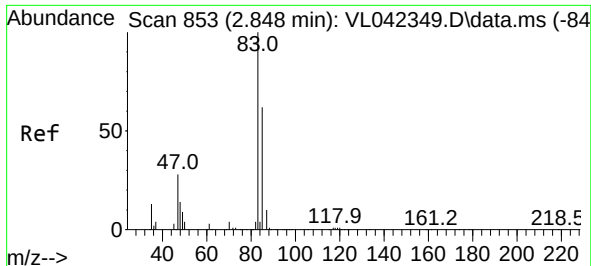
Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025



#26
 Hexane
 Concen: 1.031 ppbv
 RT: 2.822 min Scan# 845
 Delta R.T. -0.003 min
 Lab File: VL042401.D
 Acq: 21 Apr 2025 12:51

Tgt Ion: 57 Resp: 20551
 Ion Ratio Lower Upper
 57 100
 41 126.8 77.9 116.9#
 43 70.4 208.4 312.6#
 56 64.1 43.1 64.7





#29

Chloroform

Concen: 0.125 ppbv

RT: 2.848 min Scan# 853

Delta R.T. -0.000 min

Lab File: VL042401.D

Acq: 21 Apr 2025 12:51

Instrument :

MSVOA_L

ClientSampleId :

SS3

Tgt Ion: 83 Resp: 3530

Ion Ratio Lower Upper

83 100

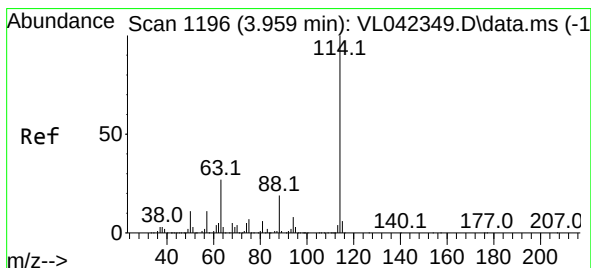
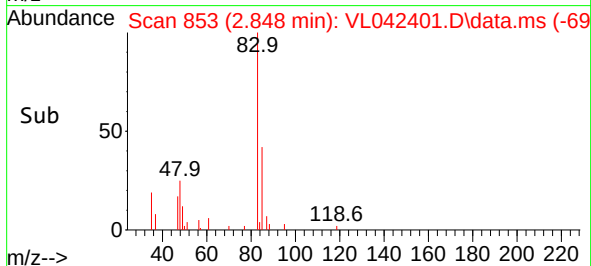
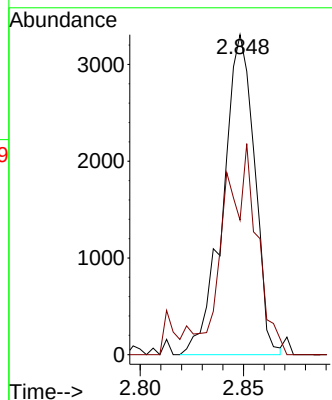
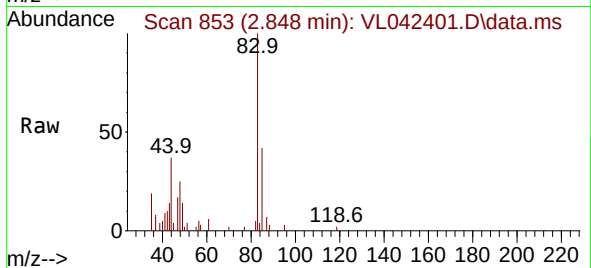
85 37.3 50.0 75.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/22/2025

Supervised By :Mahesh Dadoda 04/22/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.958 min Scan# 1196

Delta R.T. -0.000 min

Lab File: VL042401.D

Acq: 21 Apr 2025 12:51

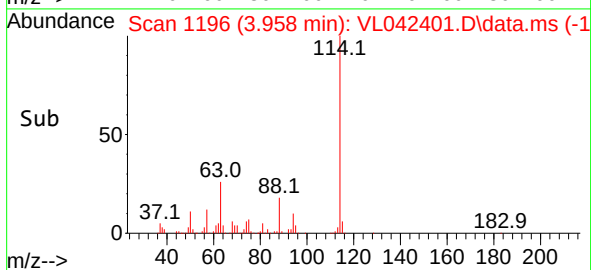
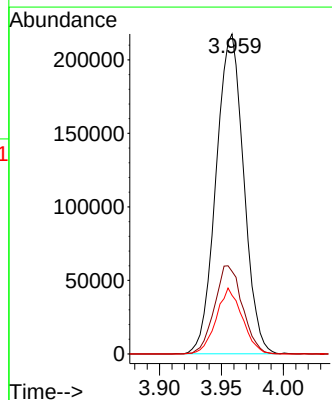
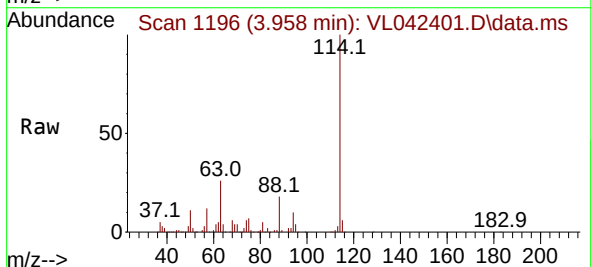
Tgt Ion:114 Resp: 337832

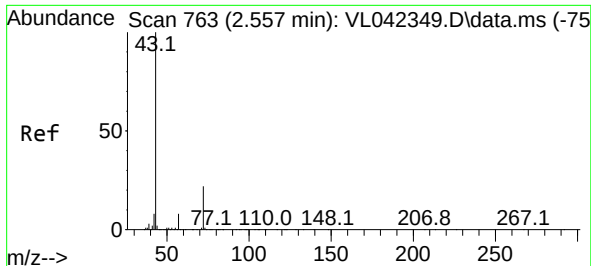
Ion Ratio Lower Upper

114 100

63 28.0 21.8 32.6

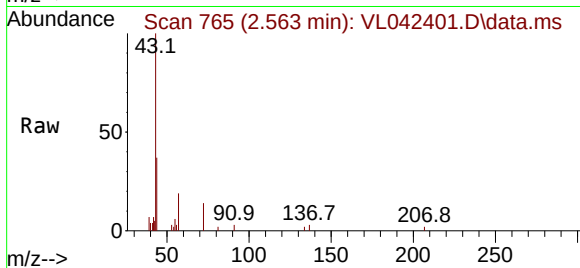
88 19.5 15.5 23.3





#34
2-Butanone
Concen: 0.129 ppbv
RT: 2.563 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL042401.D
Acq: 21 Apr 2025 12:51

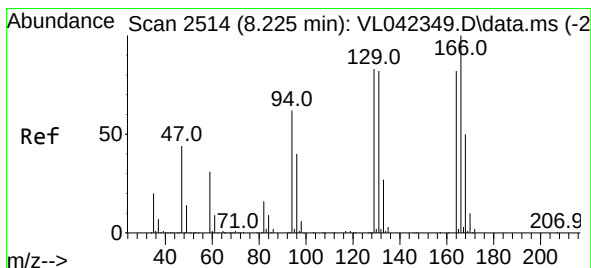
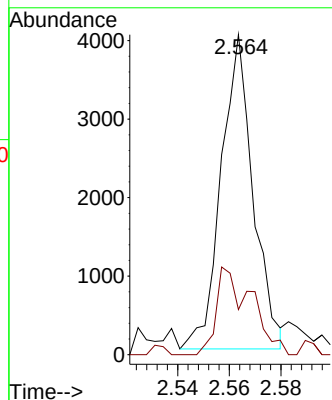
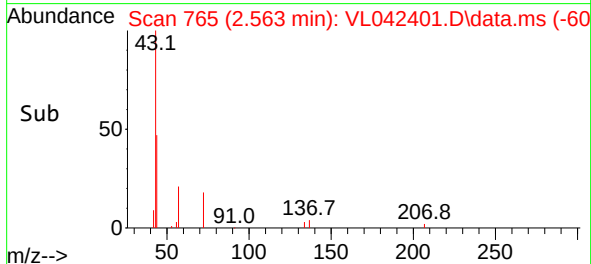
Instrument :
MSVOA_L
ClientSampleId :
SS3



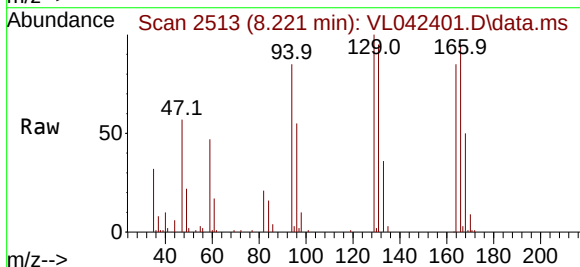
Tgt Ion: 43 Resp: 3442
Ion Ratio Lower Upper
43 100
72 33.6 18.2 27.2

Manual Integrations
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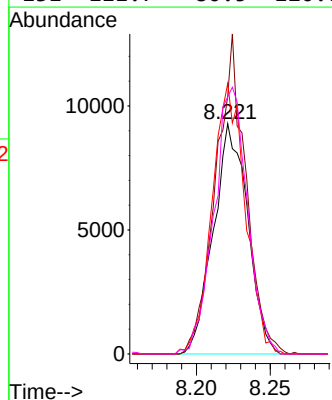
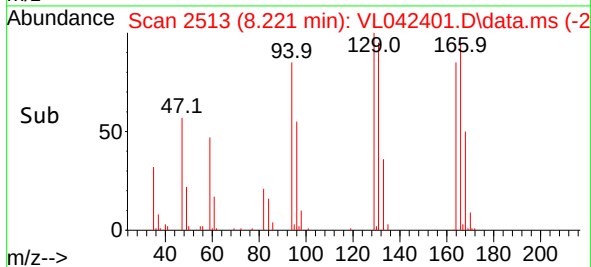
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

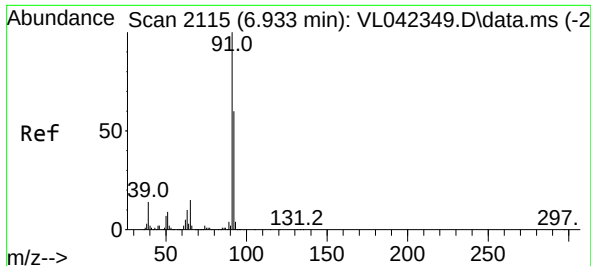


#52
Tetrachloroethene
Concen: 1.062 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042401.D
Acq: 21 Apr 2025 12:51



Tgt Ion:164 Resp: 14958
Ion Ratio Lower Upper
164 100
166 112.0 98.2 147.2
129 116.3 81.8 122.8
131 111.7 80.5 120.7





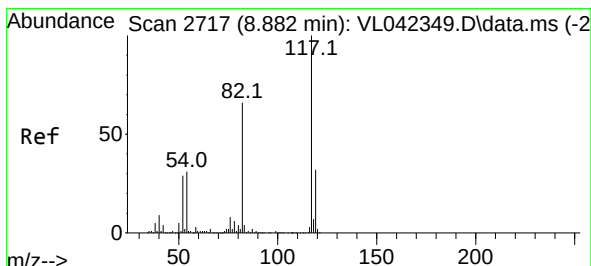
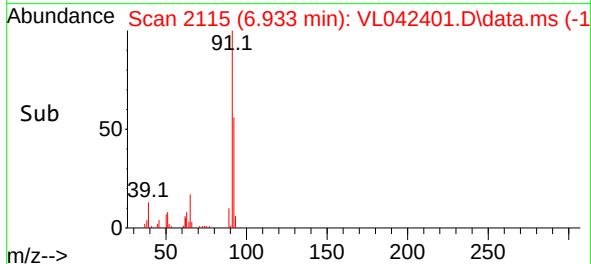
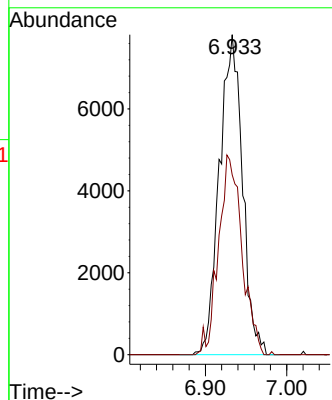
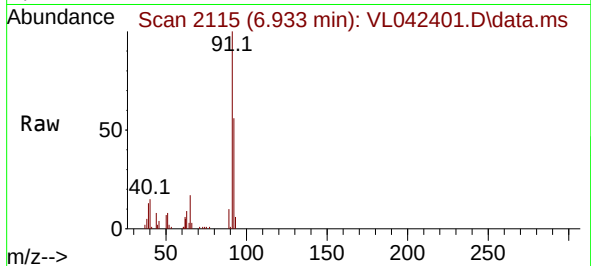
#53
Toluene
Concen: 0.350 ppbv m
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042401.D
Acq: 21 Apr 2025 12:51

Instrument :
MSVOA_L
ClientSampleId :
SS3

Tgt Ion: 91 Resp: 15319
Ion Ratio Lower Upper
91 100
92 63.6 48.2 72.4

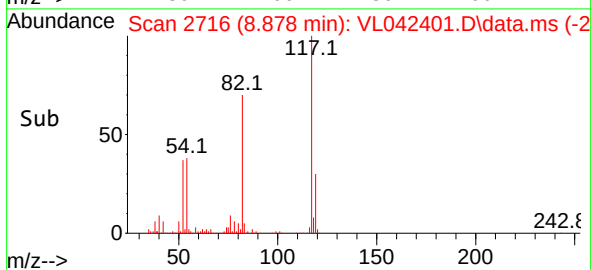
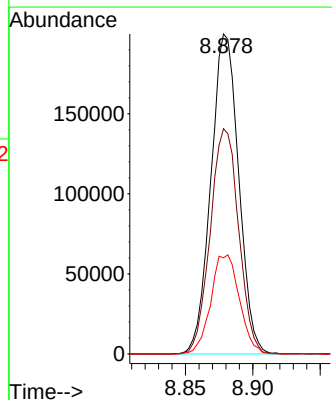
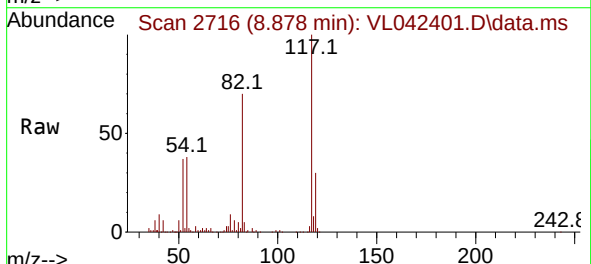
Manual Integrations
APPROVED

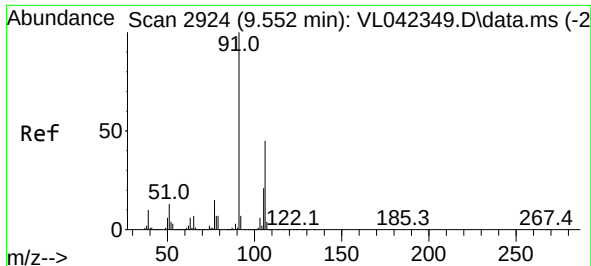
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042401.D
Acq: 21 Apr 2025 12:51

Tgt Ion:117 Resp: 286610
Ion Ratio Lower Upper
117 100
82 71.9 57.8 86.6
119 32.0 25.2 37.8





#59

m/p-Xylene

Concen: 0.259 ppbv m

RT: 9.522 min Scan# 2915

Delta R.T. -0.029 min

Lab File: VL042401.D

Acq: 21 Apr 2025 12:51

Instrument :

MSVOA_L

ClientSampleId :

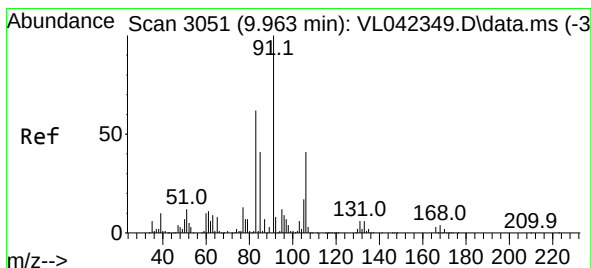
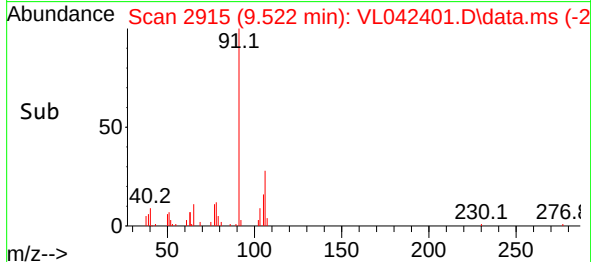
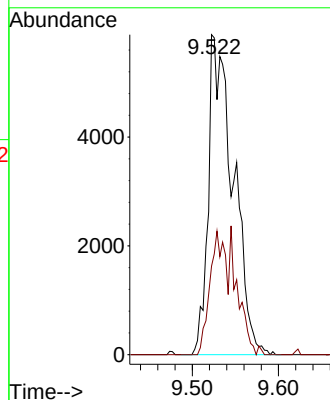
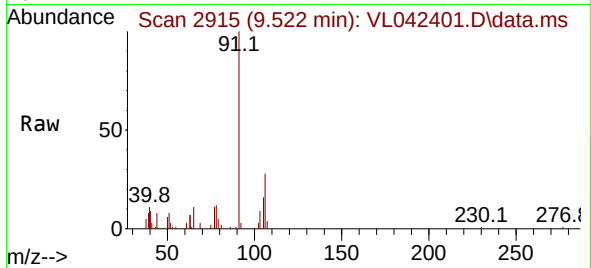
SS3

Tgt Ion: 91 Resp: 1184
 Ion Ratio Lower Upper
 91 100
 106 38.4 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025



#60

o-Xylene

Concen: 0.112 ppbv

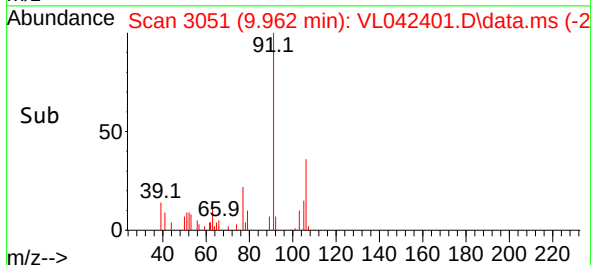
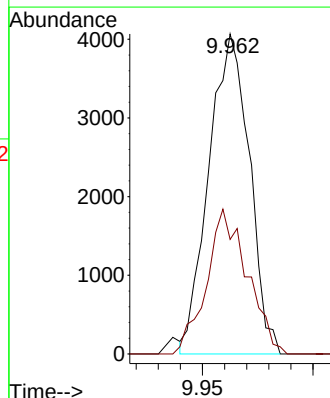
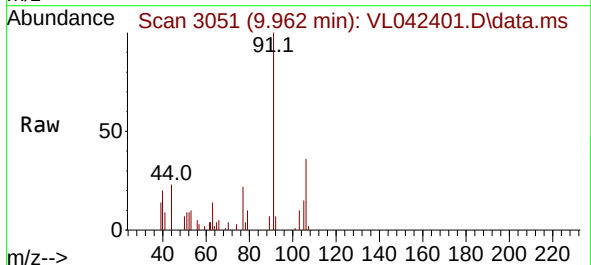
RT: 9.962 min Scan# 3051

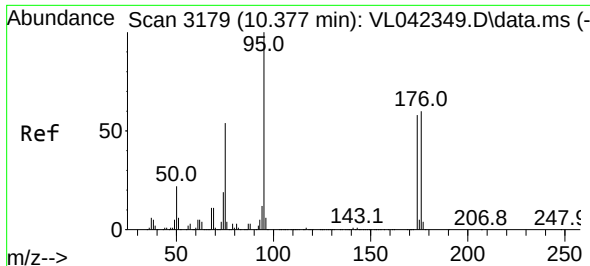
Delta R.T. -0.000 min

Lab File: VL042401.D

Acq: 21 Apr 2025 12:51

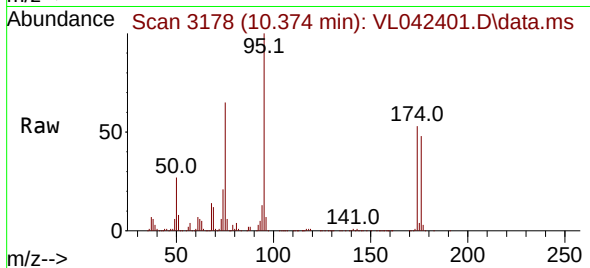
Tgt Ion: 91 Resp: 5177
 Ion Ratio Lower Upper
 91 100
 106 45.5 21.1 63.4





#68
1-Bromo-4-Fluorobenzene
Concen: 10.564 ppbv
RT: 10.374 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL042401.D
Acq: 21 Apr 2025 12:51

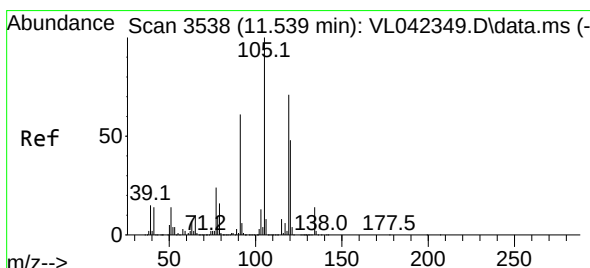
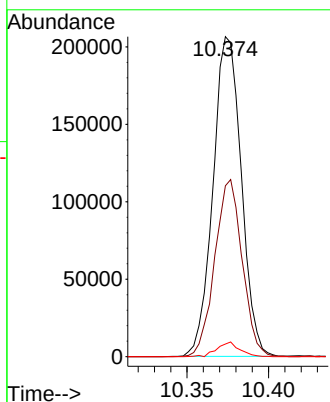
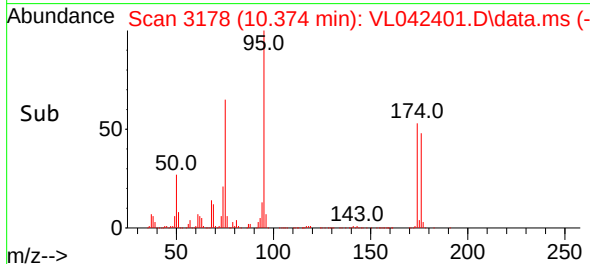
Instrument :
MSVOA_L
ClientSampleId :
SS3



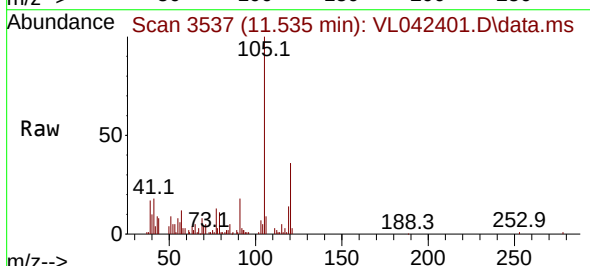
Tgt Ion: 95 Resp: 248812
Ion Ratio Lower Upper
95 100
174 53.8 48.5 72.7
175 3.7 3.7 5.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.224 ppbv
RT: 11.535 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042401.D
Acq: 21 Apr 2025 12:51



Tgt Ion:105 Resp: 13013
Ion Ratio Lower Upper
105 100
120 36.1 38.1 57.1#
91 17.9 48.8 73.2#
77 10.5 19.0 28.4#

