

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042601.D
 Acq On : 29 May 2025 23:58
 Operator : SY/MD
 Sample : Q2124-01DUP 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:16:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.804	49	107163	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.982	114	298921	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	268034	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	204016	10.154	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	1526	0.116	ppbv	89
3) Chlorodifluoromethane	1.476	51	4346m	0.240	ppbv	
9) Propene	1.489	41	116200m	15.907	ppbv	
10) Heptane	5.001	43	248607	12.074	ppbv	99
13) Ethanol	1.729	45	6311	7.249	ppbv #	39
20) Methylene Chloride	2.075	84	2149	0.504	ppbv #	71
26) Hexane	2.842	57	339752	21.167	ppbv #	41
29) Chloroform	2.862	83	26982	1.293	ppbv	99
30) Cyclohexane	3.875	84	2227m	0.167	ppbv	
34) 2-Butanone	2.574	43	14052	0.659	ppbv	97
38) Trichloroethene	4.567	130	7272	0.581	ppbv #	83
52) Tetrachloroethene	8.238	164	8055	0.732	ppbv #	90
53) Toluene	6.956	91	16264	0.478	ppbv	96
59) m/p-Xylene	9.549	91	3981m	0.111	ppbv	
74) 1,2,4-Trimethylbenzene	11.549	105	6283	0.154	ppbv #	61

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

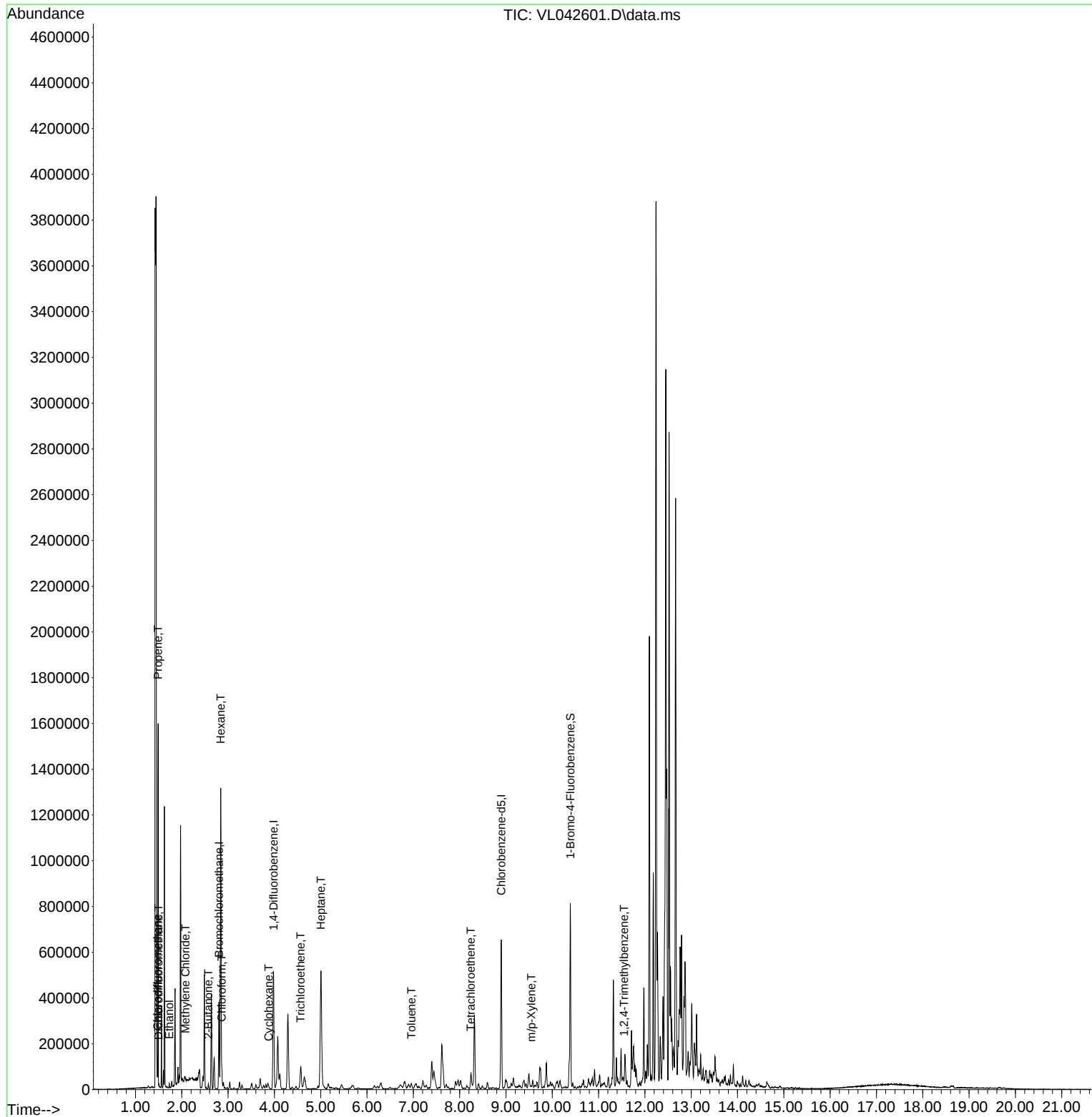
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042601.D
Acq On : 29 May 2025 23:58
Operator : SY/MD
Sample : Q2124-01DUP 4X
Misc : 400mL/MSVOA_L
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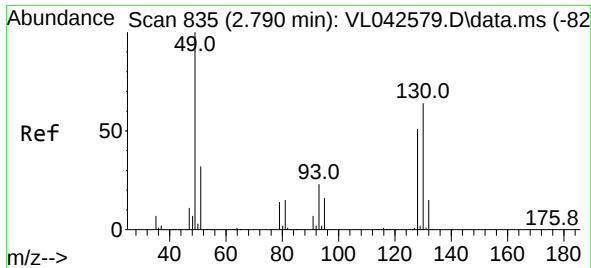
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Quant Time: May 30 02:16:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

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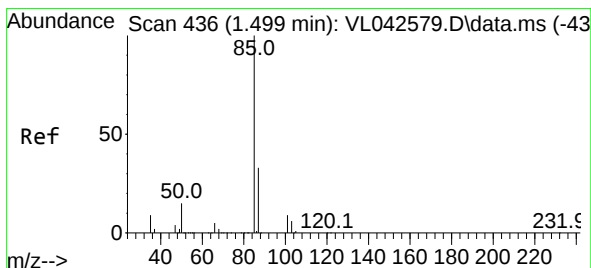
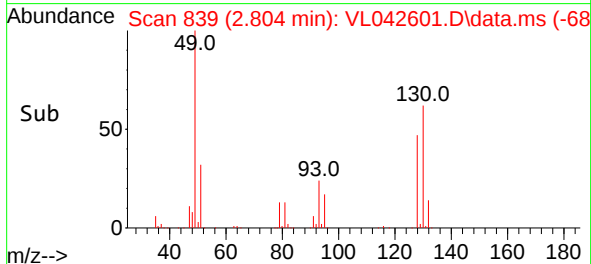
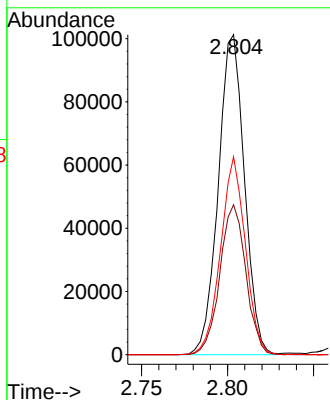
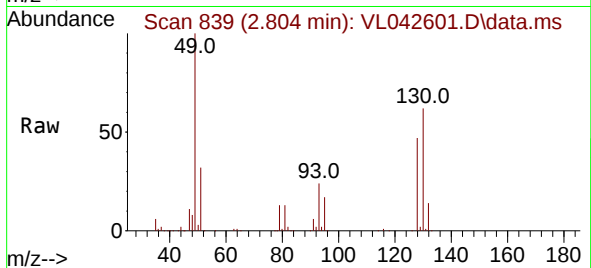
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.804 min Scan# 835
Delta R.T. 0.014 min
Lab File: VL042601.D
Acq: 29 May 2025 23:58

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 49 Resp: 10716
Ion Ratio Lower Upper
49 100
128 46.5 24.2 72.6
130 58.6 30.4 91.2

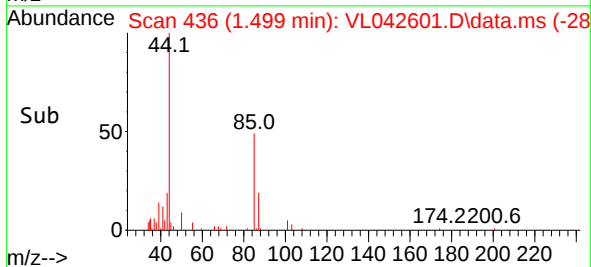
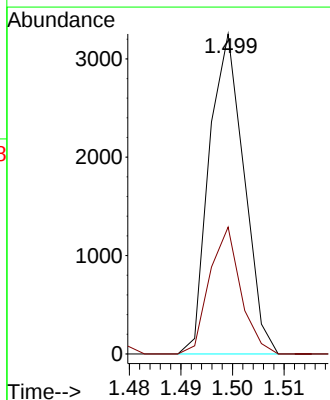
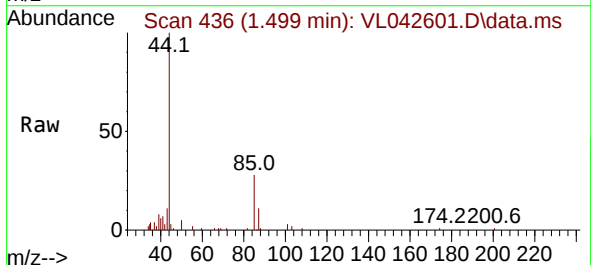
Manual Integrations
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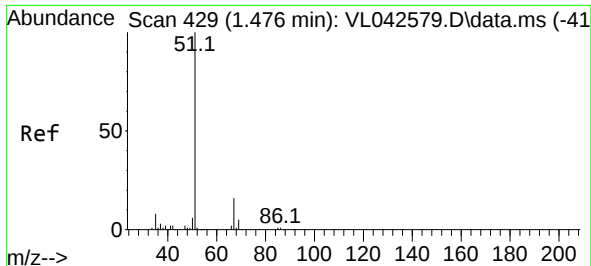
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#2
Dichlorodifluoromethane
Concen: 0.116 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042601.D
Acq: 29 May 2025 23:58

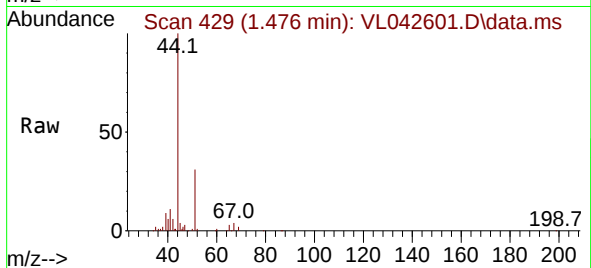
Tgt Ion: 85 Resp: 1526
Ion Ratio Lower Upper
85 100
87 39.7 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.240 ppbv m
RT: 1.476 min Scan# 431
Delta R.T. 0.000 min
Lab File: VL042601.D
Acq: 29 May 2025 23:58

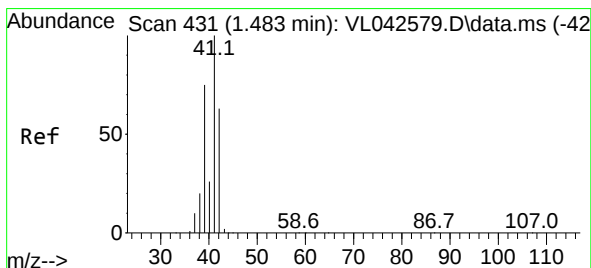
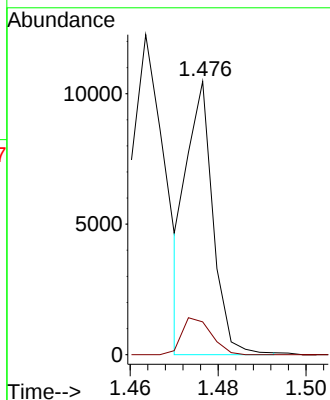
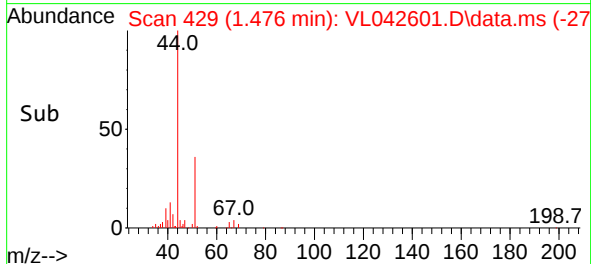
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



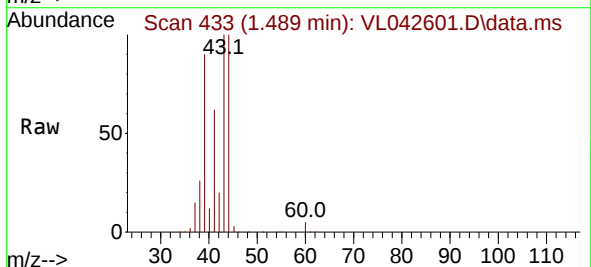
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Ion Ratio Lower Upper
51 100
67 8.0 13.4 20.2

Manual Integrations
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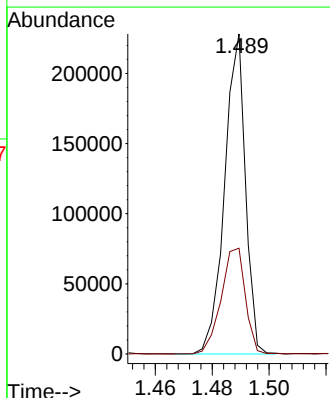
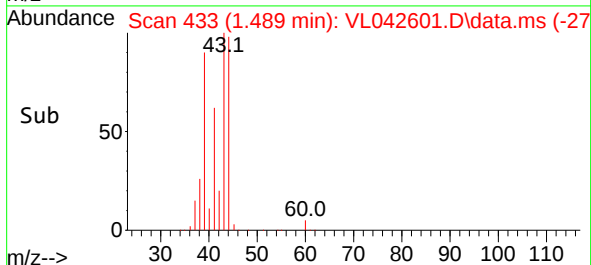
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

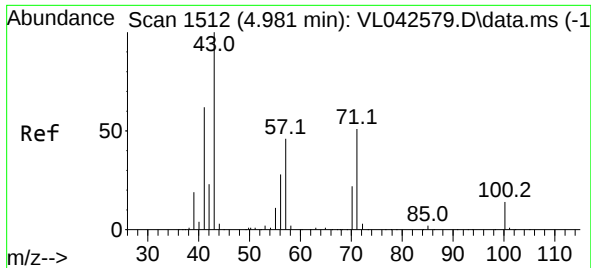


#9
Propene
Concen: 15.907 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL042601.D
Acq: 29 May 2025 23:58



Tgt Ion: 41 Resp: 116200
Ion Ratio Lower Upper
41 100
42 21.6 53.3 79.9





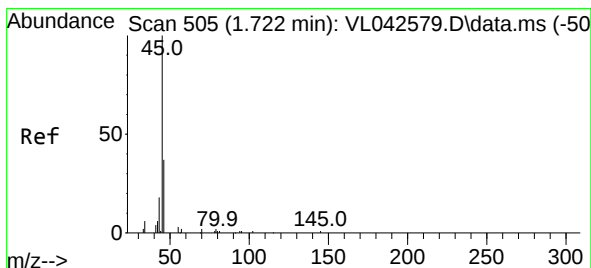
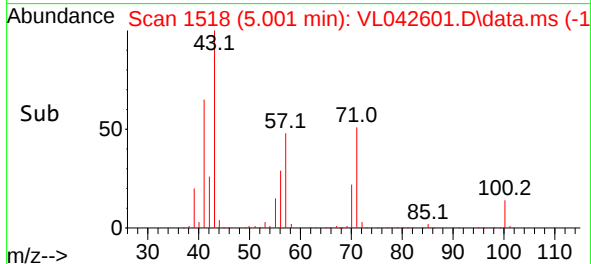
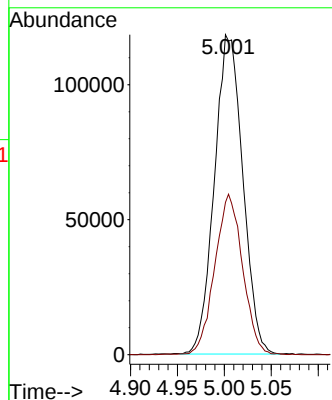
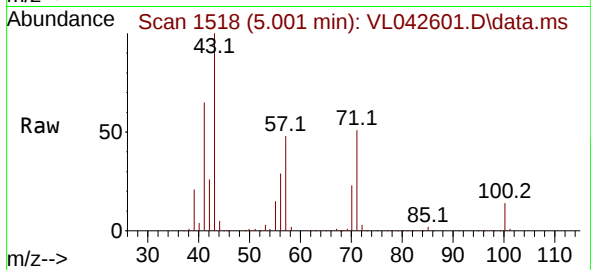
#10
Heptane
Concen: 12.074 ppbv
RT: 5.001 min Scan# 11
Delta R.T. 0.020 min
Lab File: VL042601.D
Acq: 29 May 2025 23:58

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 43 Resp: 24860
Ion Ratio Lower Upper
43 100
57 49.4 38.9 58.3

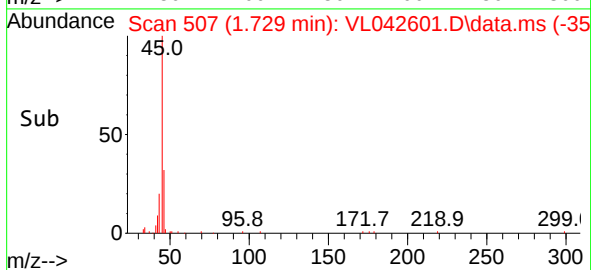
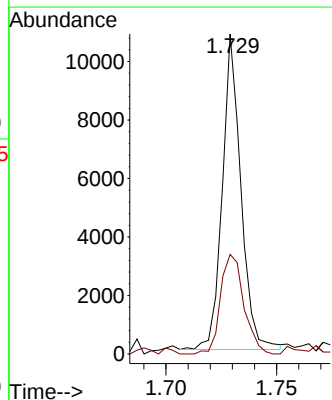
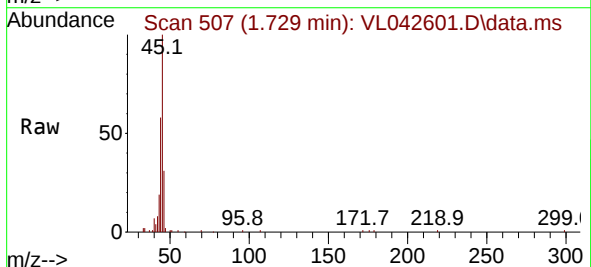
Manual Integrations
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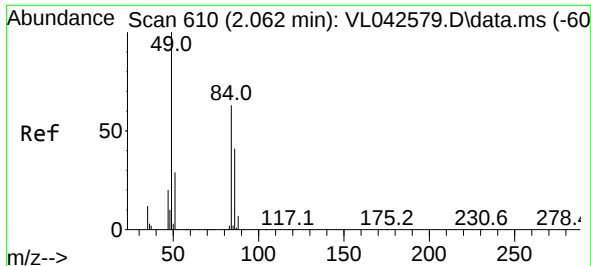
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#13
Ethanol
Concen: 7.249 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.007 min
Lab File: VL042601.D
Acq: 29 May 2025 23:58

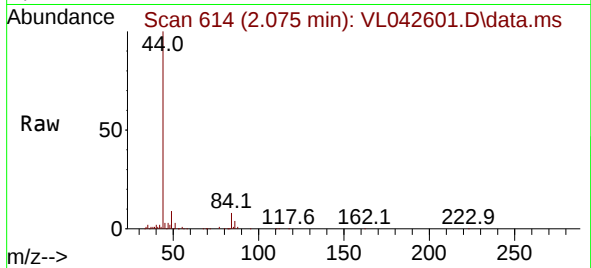
Tgt Ion: 45 Resp: 6311
Ion Ratio Lower Upper
45 100
46 0.0 14.5 58.1#





#20
Methylene Chloride
Concen: 0.504 ppbv
RT: 2.075 min Scan# 610
Delta R.T. 0.013 min
Lab File: VL042601.D
Acq: 29 May 2025 23:58

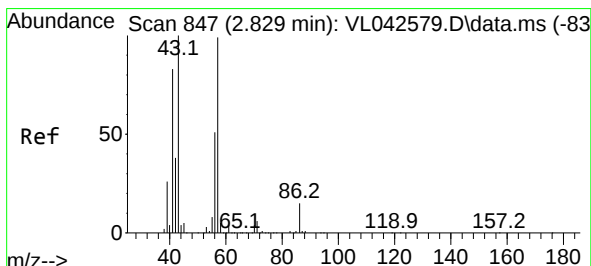
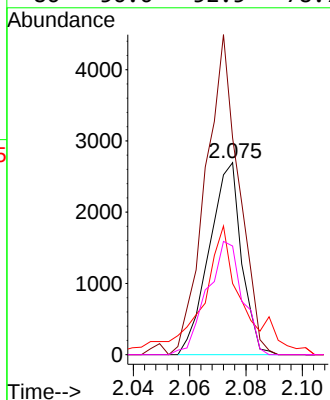
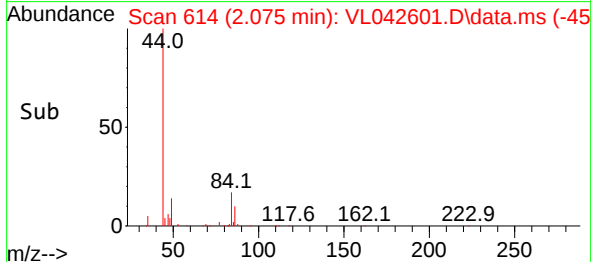
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



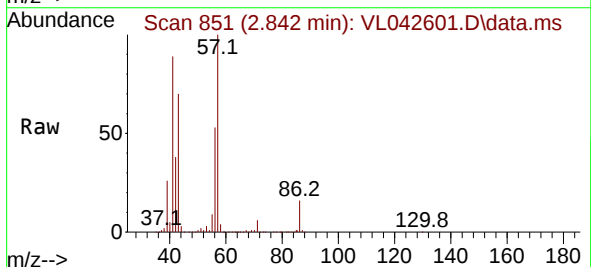
Tgt Ion: 84 Resp: 2149
Ion Ratio Lower Upper
84 100
49 113.0 128.8 193.2
51 29.6 38.6 57.8
86 56.6 52.5 78.7

Manual Integrations
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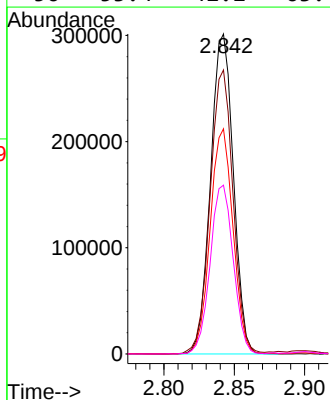
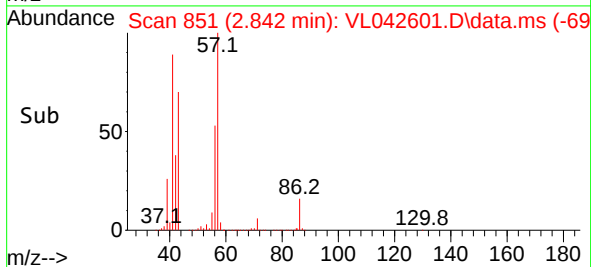
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

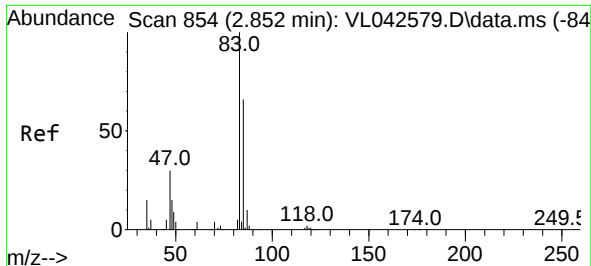


#26
Hexane
Concen: 21.167 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.013 min
Lab File: VL042601.D
Acq: 29 May 2025 23:58



Tgt Ion: 57 Resp: 339752
Ion Ratio Lower Upper
57 100
41 89.8 70.6 106.0
43 70.5 181.1 271.7#
56 53.4 42.2 63.4





#29

Chloroform

Concen: 1.293 ppbv

RT: 2.862 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL042601.D

Acq: 29 May 2025 23:58

Instrument :

MSVOA_L

ClientSampleId :

SV1DUP

Tgt Ion: 83 Resp: 2698

Ion Ratio Lower Upper

83 100

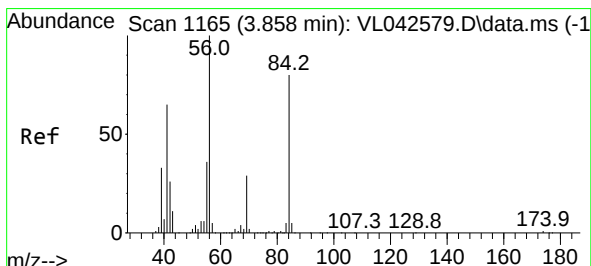
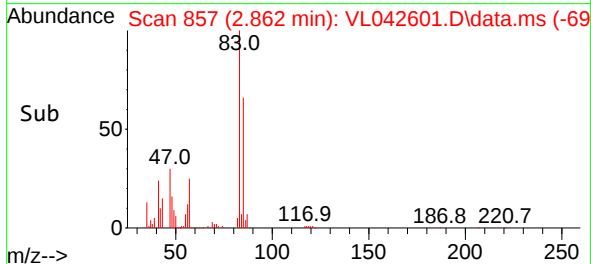
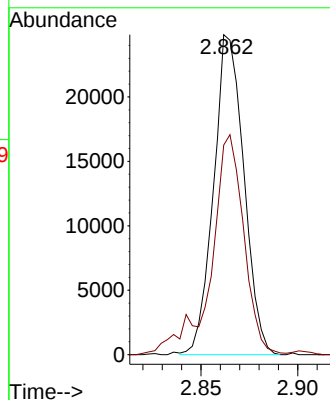
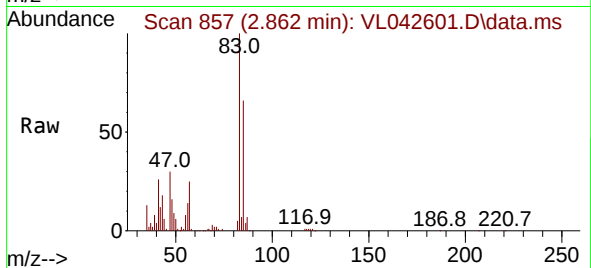
85 64.9 52.8 79.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#30

Cyclohexane

Concen: 0.167 ppbv m

RT: 3.875 min Scan# 1170

Delta R.T. 0.017 min

Lab File: VL042601.D

Acq: 29 May 2025 23:58

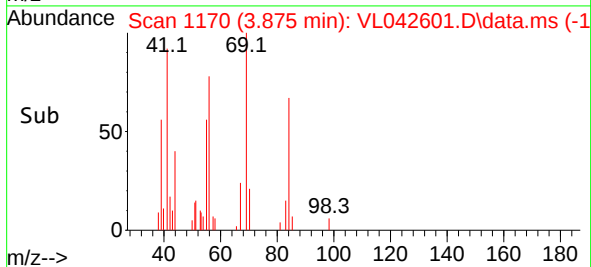
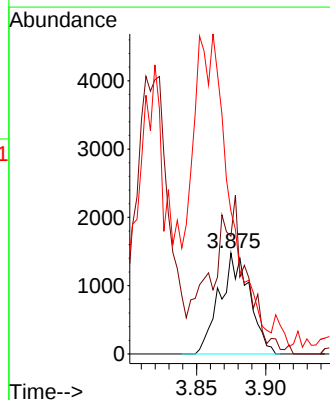
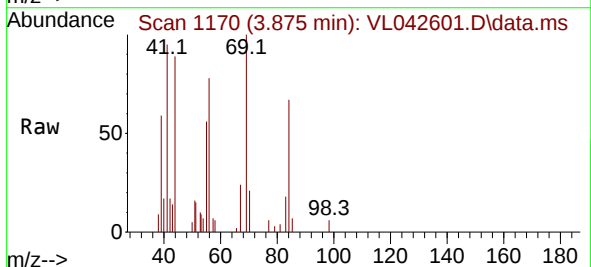
Tgt Ion: 84 Resp: 2227

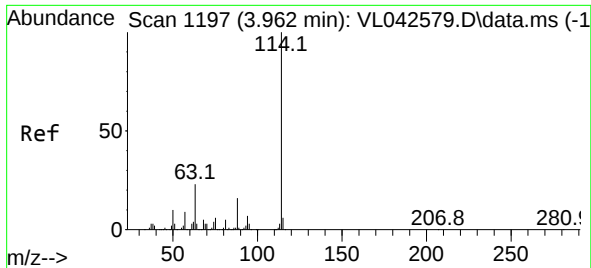
Ion Ratio Lower Upper

84 100

56 0.0 103.7 155.5#

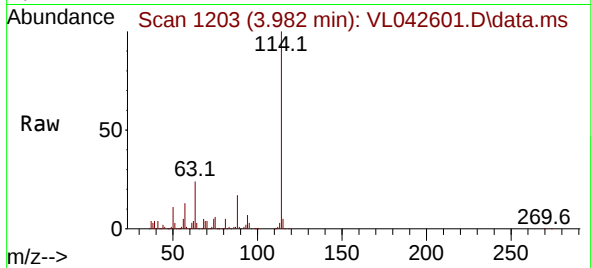
41 0.0 65.1 97.7#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.982 min Scan# 1197
Delta R.T. 0.020 min
Lab File: VL042601.D
Acq: 29 May 2025 23:58

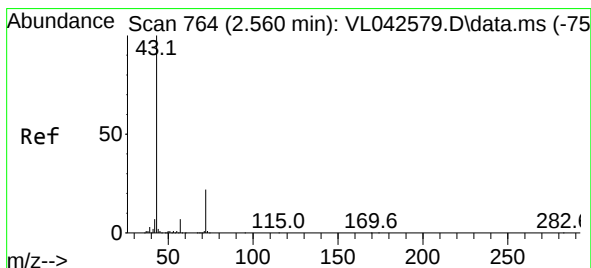
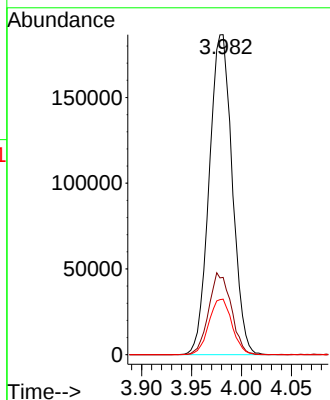
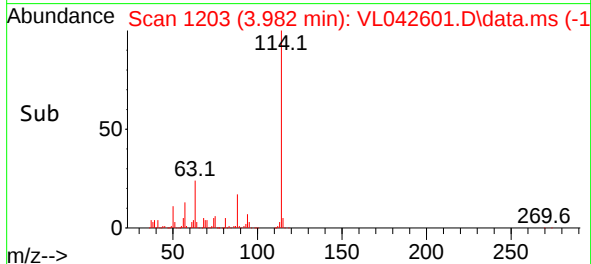
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



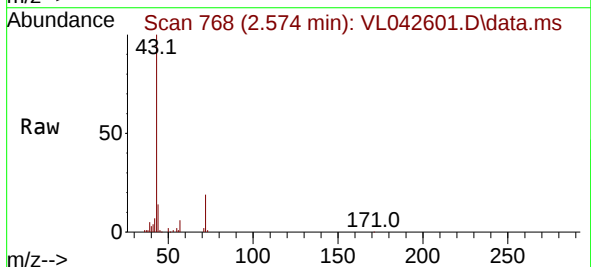
Tgt Ion:114 Resp: 29892
Ion Ratio Lower Upper
114 100
63 25.1 19.0 28.6
88 17.4 13.6 20.4

Manual Integrations
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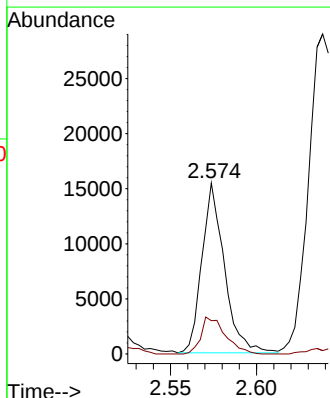
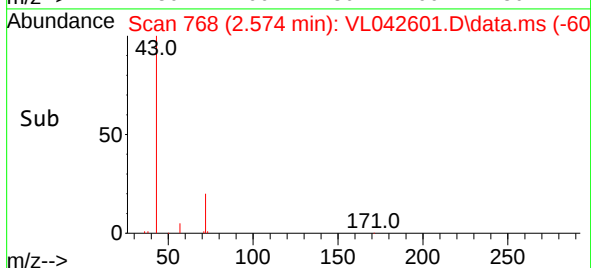
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

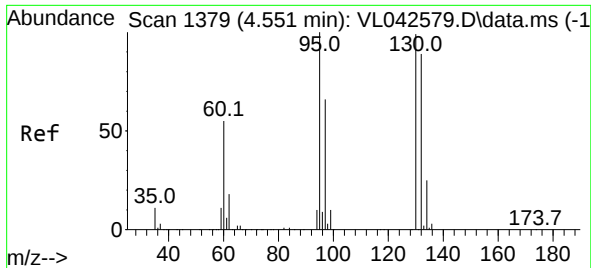


#34
2-Butanone
Concen: 0.659 ppbv
RT: 2.574 min Scan# 768
Delta R.T. 0.013 min
Lab File: VL042601.D
Acq: 29 May 2025 23:58



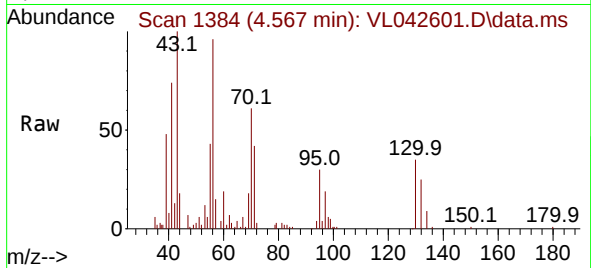
Tgt Ion: 43 Resp: 14052
Ion Ratio Lower Upper
43 100
72 23.5 17.7 26.5





#38
 Trichloroethene
 Concen: 0.581 ppbv
 RT: 4.567 min Scan# 1384
 Delta R.T. 0.016 min
 Lab File: VL042601.D
 Acq: 29 May 2025 23:58

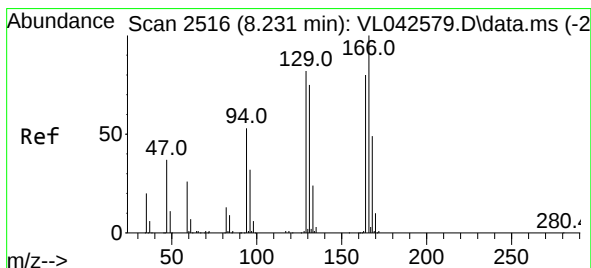
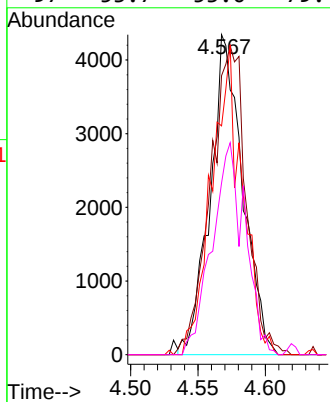
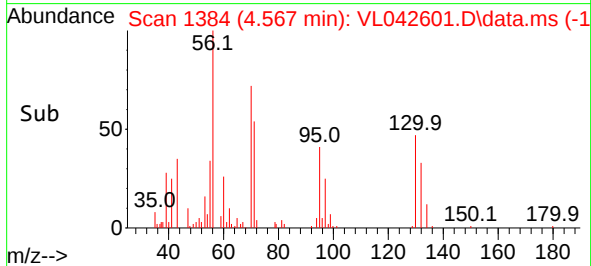
Instrument :
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Tgt Ion:	130	Resp:	727
Ion Ratio	Lower	Upper	
130	100		
95	85.5	80.6	121.0
132	71.5	71.8	107.6
97	53.7	53.0	79.4

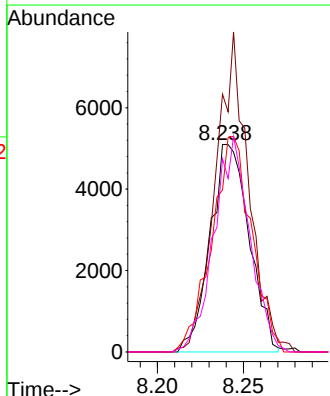
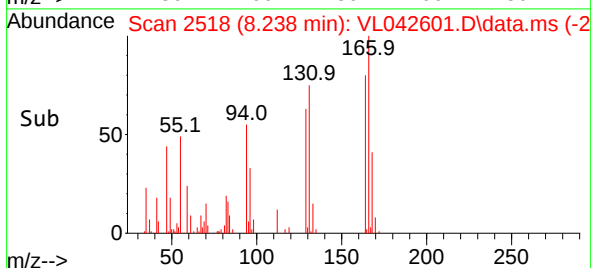
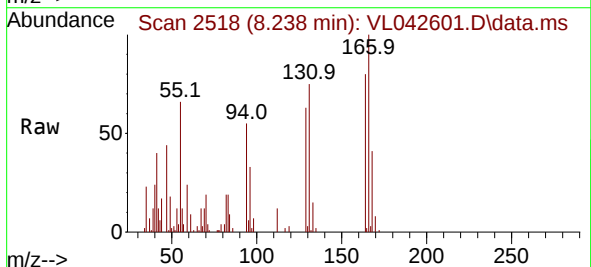
Manual Integrations
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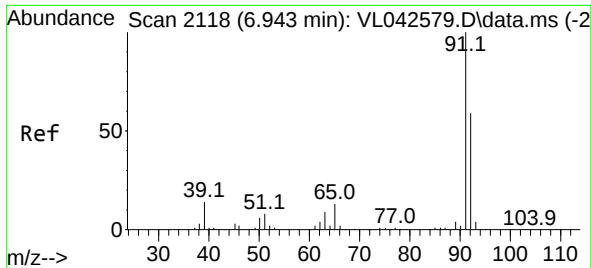
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#52
 Tetrachloroethene
 Concen: 0.732 ppbv
 RT: 8.238 min Scan# 2518
 Delta R.T. 0.007 min
 Lab File: VL042601.D
 Acq: 29 May 2025 23:58

Tgt Ion:	164	Resp:	8055
Ion Ratio	Lower	Upper	
164	100		
166	122.3	100.0	150.0
129	76.0	82.2	123.4
131	91.7	75.2	112.8





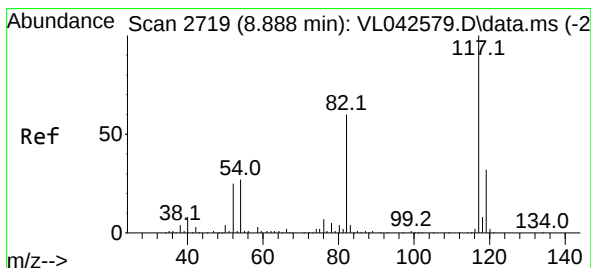
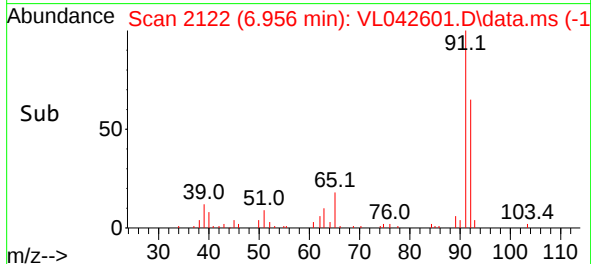
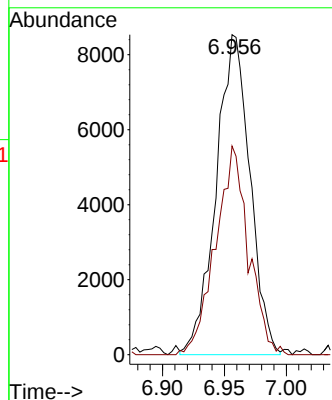
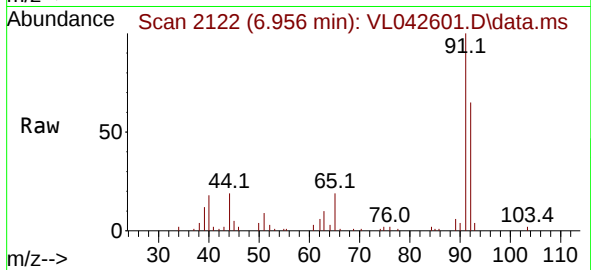
#53
Toluene
Concen: 0.478 ppbv
RT: 6.956 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042601.D
Acq: 29 May 2025 23:58

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 91 Resp: 16264
Ion Ratio Lower Upper
91 100
92 63.4 48.2 72.4

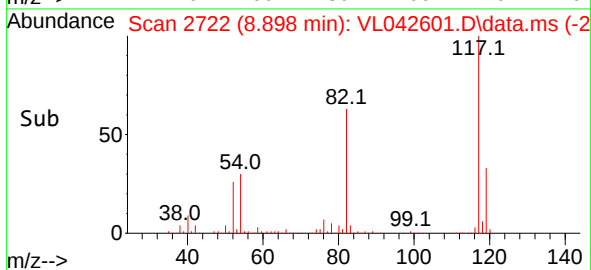
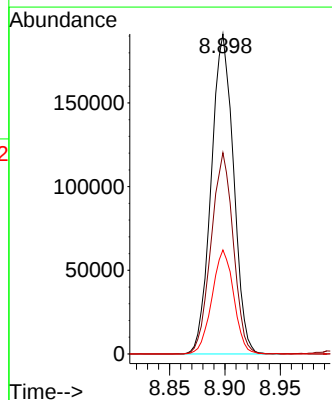
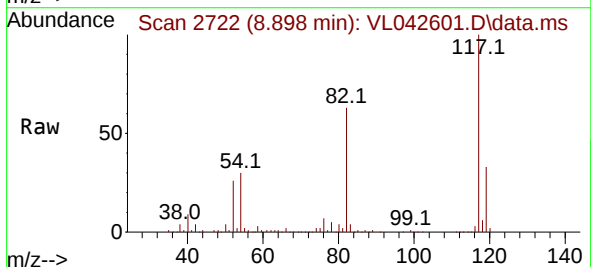
Manual Integrations
APPROVED

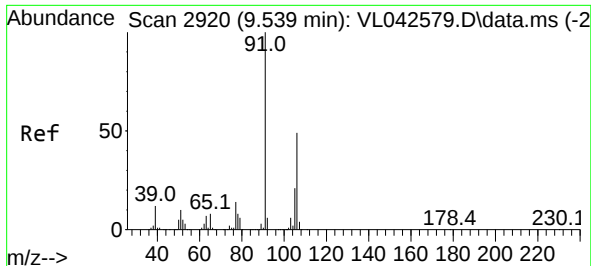
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.010 min
Lab File: VL042601.D
Acq: 29 May 2025 23:58

Tgt Ion:117 Resp: 268034
Ion Ratio Lower Upper
117 100
82 62.6 51.2 76.8
119 31.8 26.3 39.5





#59

m/p-Xylene

Concen: 0.111 ppbv m

RT: 9.549 min Scan# 2920

Delta R.T. 0.010 min

Lab File: VL042601.D

Acq: 29 May 2025 23:58

Instrument :

MSVOA_L

ClientSampleId :

SV1DUP

Tgt Ion: 91 Resp: 398

Ion Ratio Lower Upper

91 100

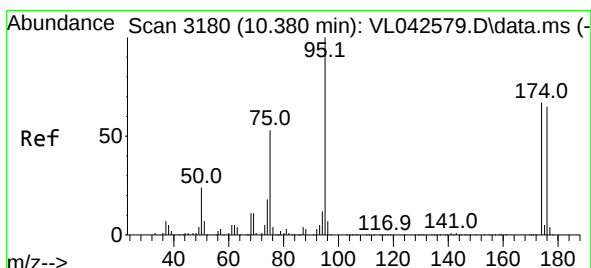
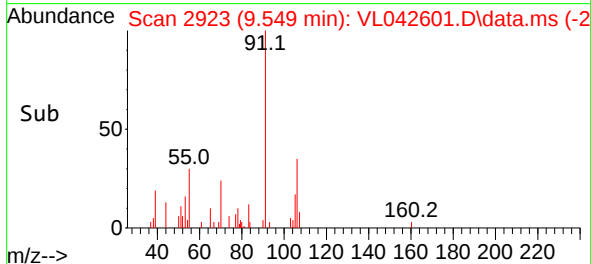
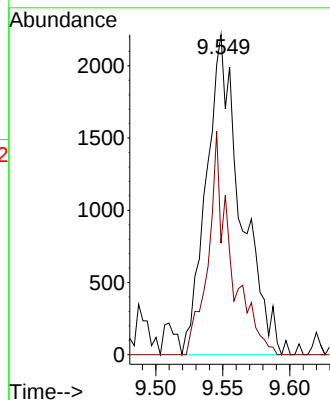
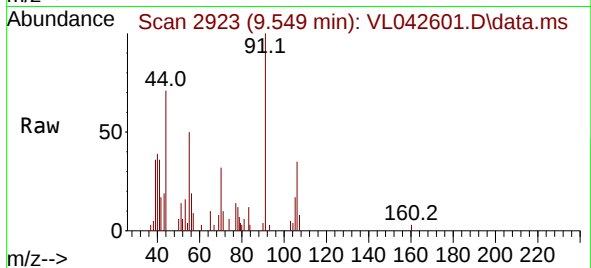
106 45.9 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.154 ppbv

RT: 10.390 min Scan# 3183

Delta R.T. 0.010 min

Lab File: VL042601.D

Acq: 29 May 2025 23:58

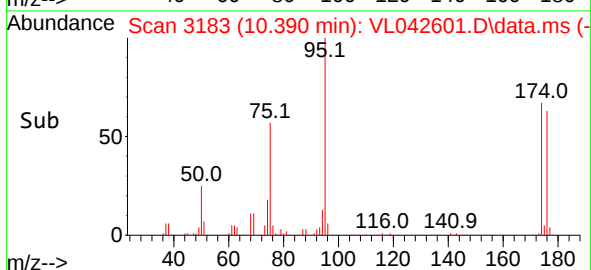
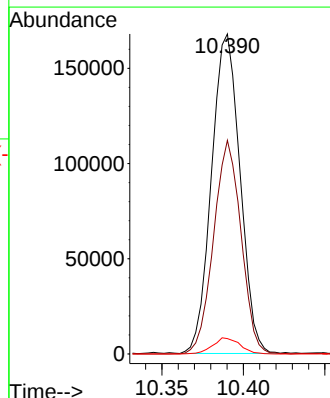
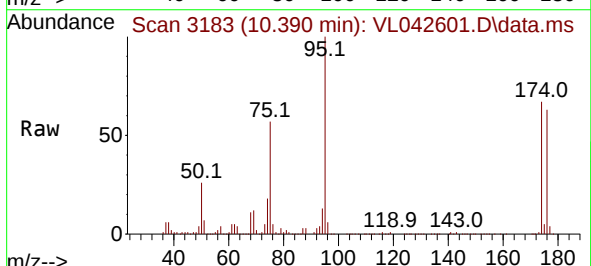
Tgt Ion: 95 Resp: 204016

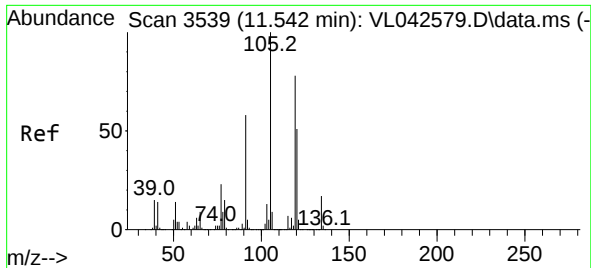
Ion Ratio Lower Upper

95 100

174 64.6 53.1 79.7

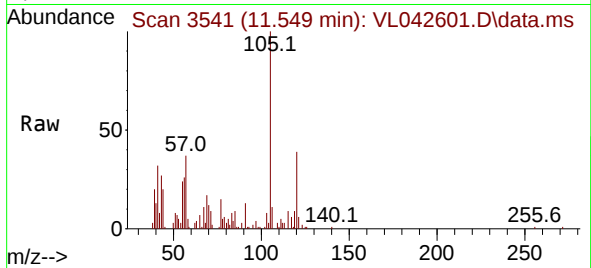
175 4.8 4.2 6.2





#74
1,2,4-Trimethylbenzene
Concen: 0.154 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.007 min
Lab File: VL042601.D
Acq: 29 May 2025 23:58

Instrument : MSVOA_L
ClientSampleId : SV1DUP



Tgt Ion:	105	Resp:	628
Ion	Ratio	Lower	Upper
105	100		
120	38.9	40.8	61.2
91	11.0	46.8	70.2
77	11.3	18.2	27.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

