

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042226.D
 Acq On : 04 Apr 2025 16:24
 Operator : SY/MD
 Sample : Q1691-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 05 02:05:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	194580	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	518092	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	453107	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	364662	9.800	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.000%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	11891	0.414	ppbv	91
3) Chlorodifluoromethane	1.473	51	8406m	0.286	ppbv	
4) Chloromethane	1.531	50	6382	0.544	ppbv	94
9) Propene	1.483	41	5786	0.430	ppbv	89
11) Trichlorofluoromethane	1.874	101	5744	0.205	ppbv	98
13) Ethanol	1.719	45	28404	22.336	ppbv	87
15) Acetone	1.835	43	122167	4.489	ppbv	91
19) Isopropyl Alcohol	1.884	45	13718	0.893	ppbv #	1
20) Methylene Chloride	2.059	84	4996	0.493	ppbv	89
26) Hexane	2.823	57	6248	0.229	ppbv #	41
34) 2-Butanone	2.560	43	12639	0.336	ppbv	95
35) Carbon Tetrachloride	3.761	117	2994m	0.074	ppbv	
36) Benzene	3.648	78	8042	0.157	ppbv #	90
52) Tetrachloroethene	8.221	164	7487	0.368	ppbv	93
53) Toluene	6.933	91	19011m	0.312	ppbv	
59) m/p-Xylene	9.529	91	7889m	0.123	ppbv	

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

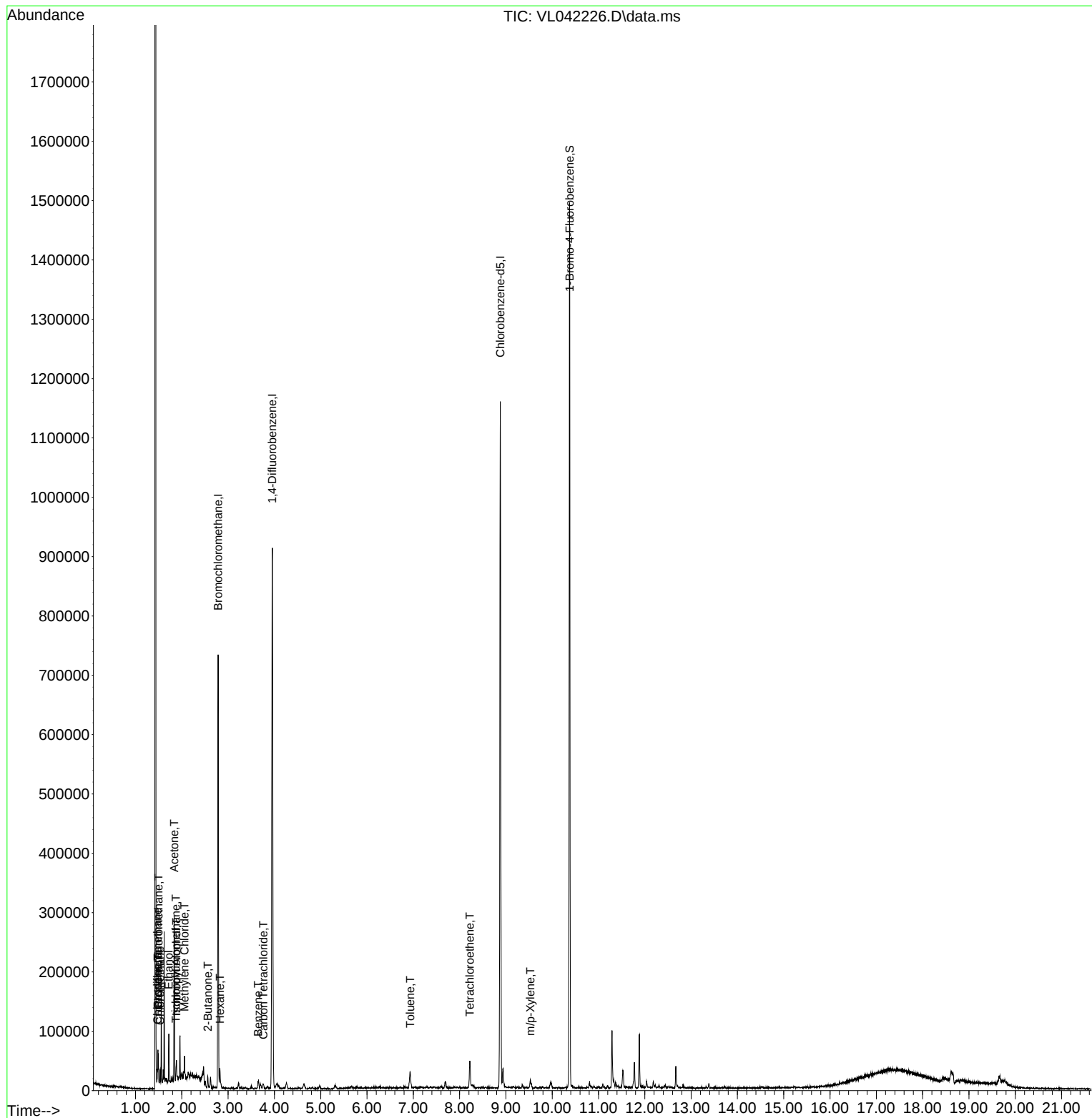
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
Data File : VL042226.D
Acq On : 04 Apr 2025 16:24
Operator : SY/MD
Sample : Q1691-04
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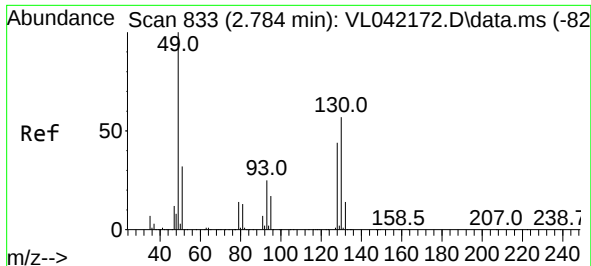
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Apr 05 02:05:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
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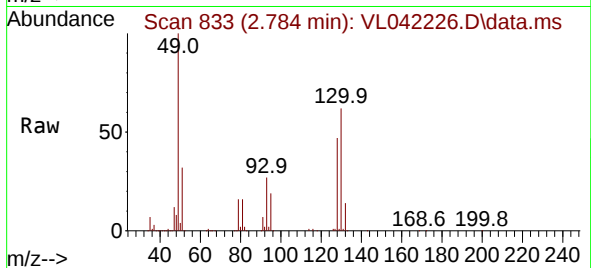
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

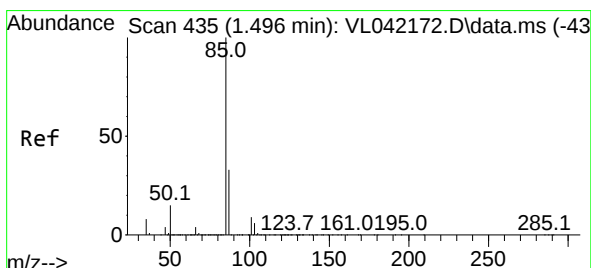
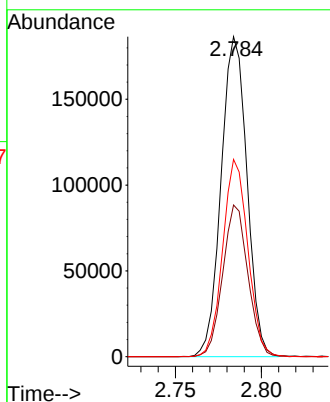
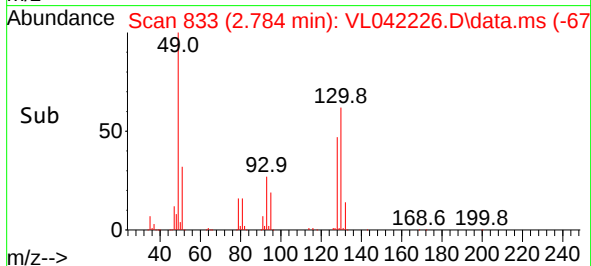
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 194580
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.5
130 60.1 28.8 86.4

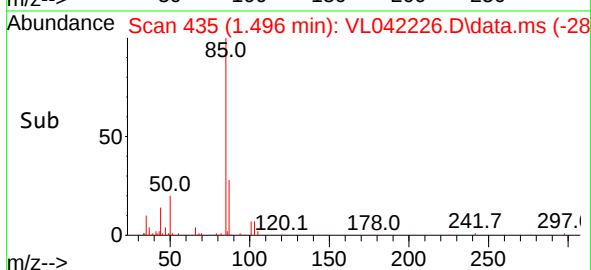
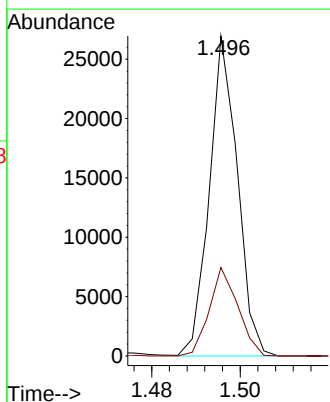
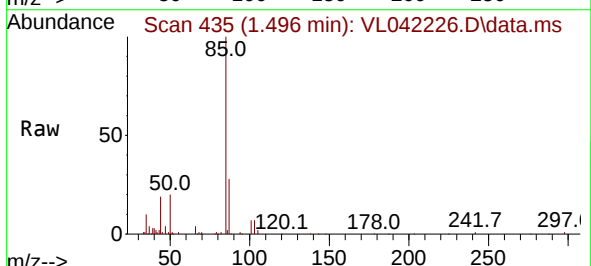
Manual Integrations
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Supervised By :Mahesh Dadoda 04/08/2025



#2
Dichlorodifluoromethane
Concen: 0.414 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

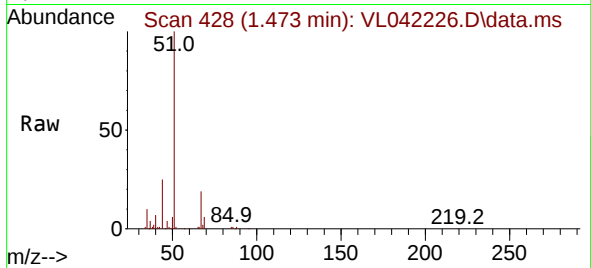
Tgt Ion: 85 Resp: 11891
Ion Ratio Lower Upper
85 100
87 27.7 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.286 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

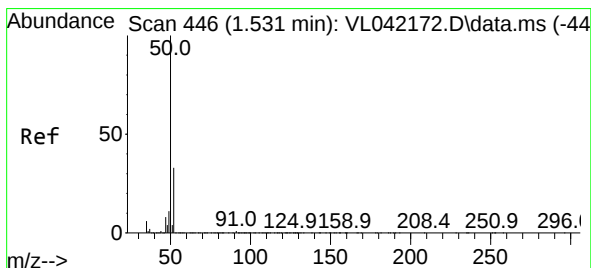
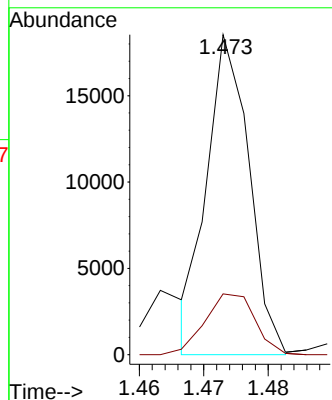
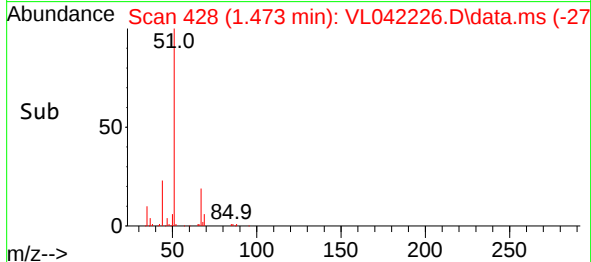
Instrument :
MSVOA_L
ClientSampleId :
OA1



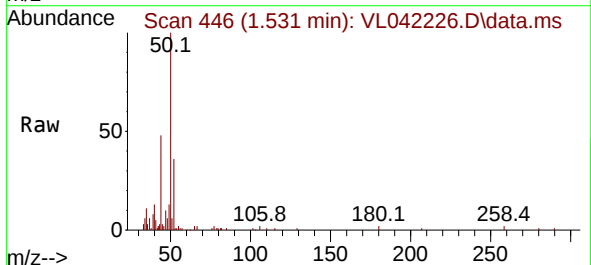
Tgt Ion: 51 Resp: 8400
Ion Ratio Lower Upper
51 100
67 26.1 15.0 22.6

Manual Integrations
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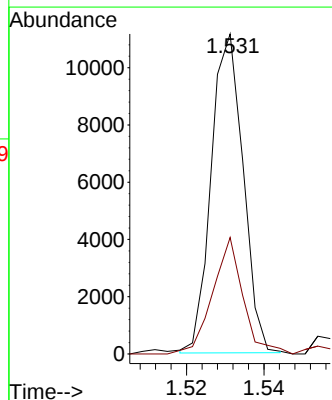
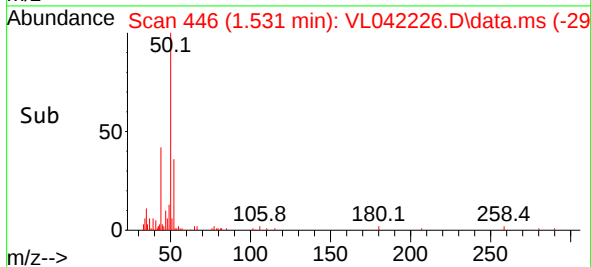
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

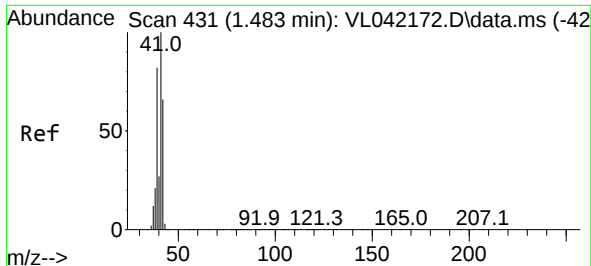


#4
Chloromethane
Concen: 0.544 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24



Tgt Ion: 50 Resp: 6382
Ion Ratio Lower Upper
50 100
52 35.7 26.1 39.1





#9

Propene

Concen: 0.430 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042226.D

Acq: 04 Apr 2025 16:24

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 41 Resp: 5780

Ion Ratio Lower Upper

41 100

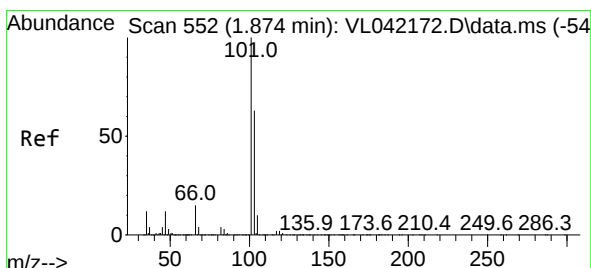
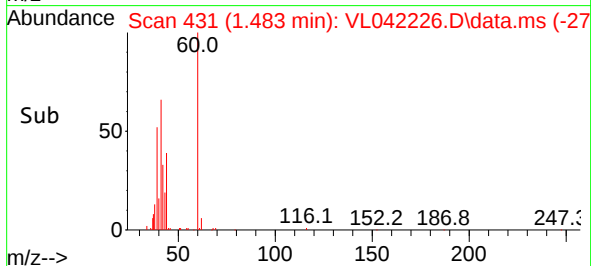
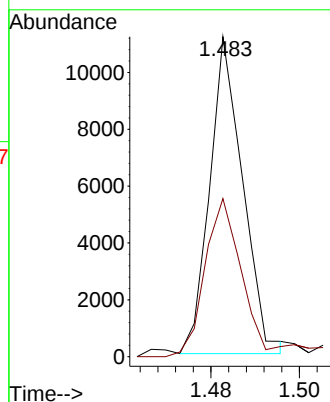
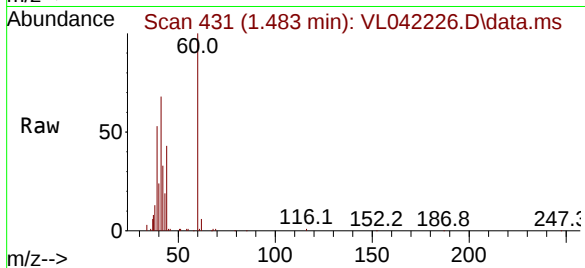
42 60.0 55.4 83.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#11

Trichlorofluoromethane

Concen: 0.205 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.000 min

Lab File: VL042226.D

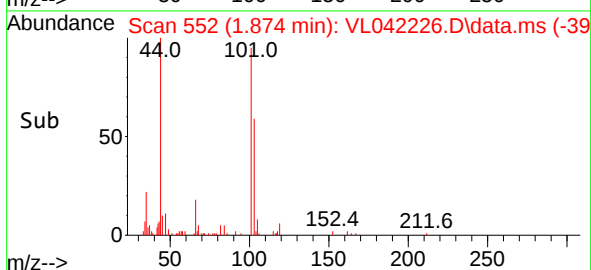
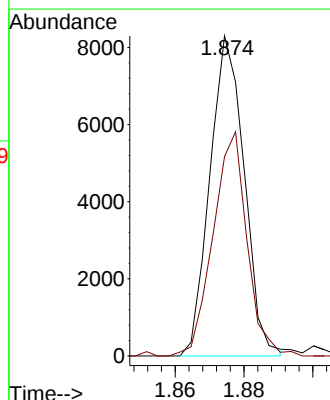
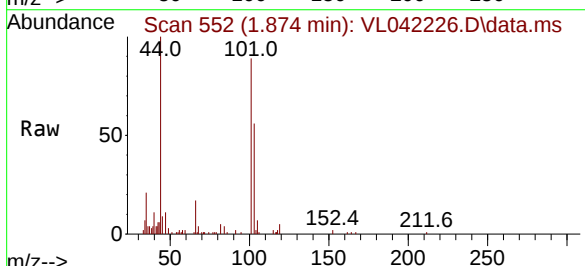
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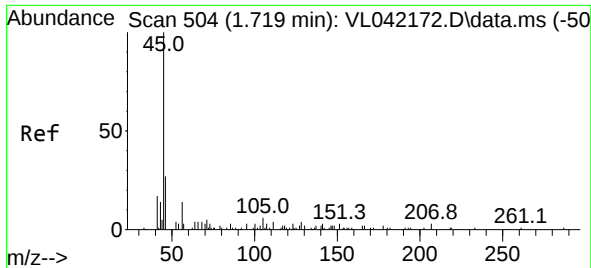
Tgt Ion:101 Resp: 5744

Ion Ratio Lower Upper

101 100

103 61.1 50.2 75.2





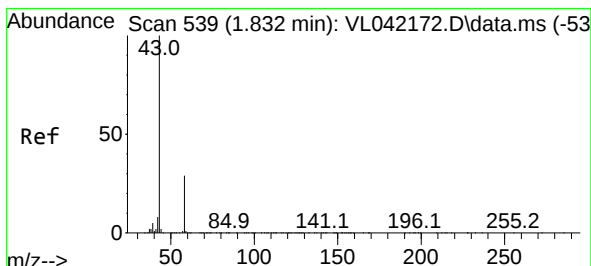
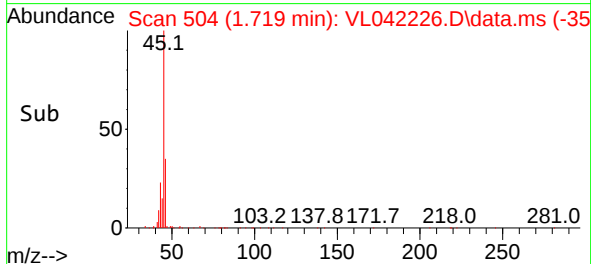
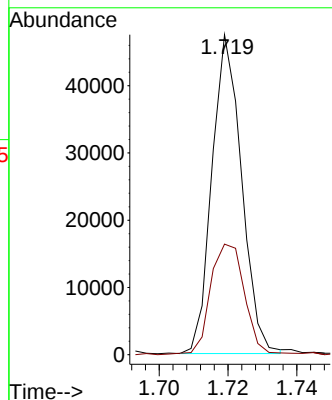
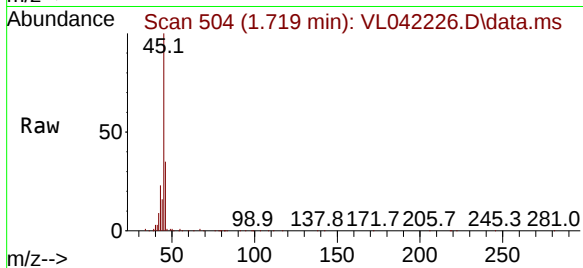
#13
Ethanol
Concen: 22.336 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 28404
Ion Ratio Lower Upper
45 100
46 41.4 20.2 80.8

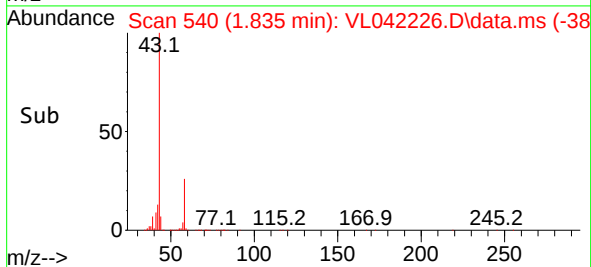
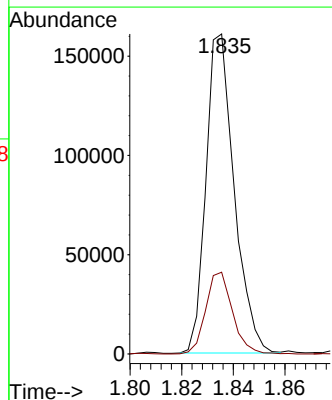
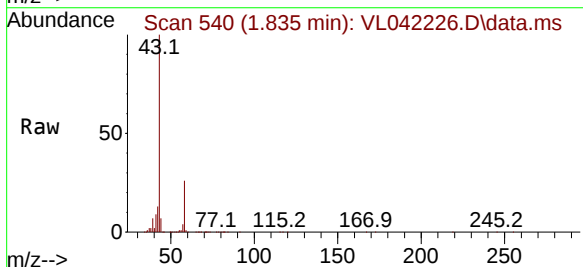
Manual Integrations
APPROVED

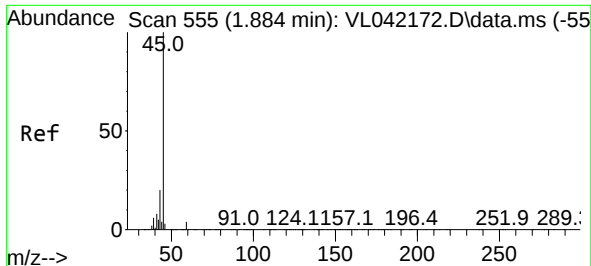
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#15
Acetone
Concen: 4.489 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

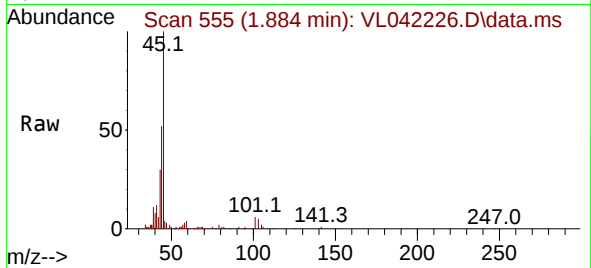
Tgt Ion: 43 Resp: 122167
Ion Ratio Lower Upper
43 100
58 24.4 23.2 34.8





#19
Isopropyl Alcohol
Concen: 0.893 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

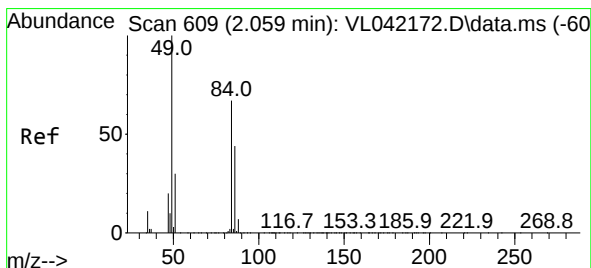
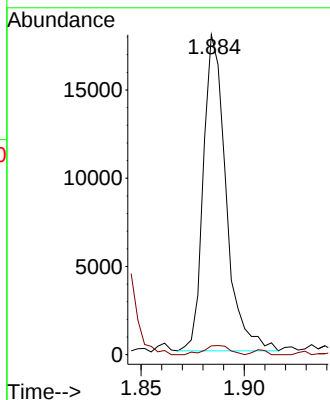
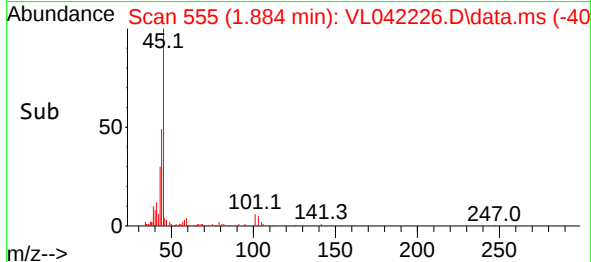
Instrument :
MSVOA_L
ClientSampleId :
OA1



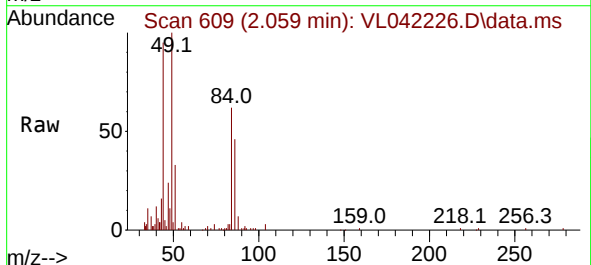
Tgt Ion: 45 Resp: 13718
Ion Ratio Lower Upper
45 100
58 218.5 36.9 55.3

Manual Integrations
APPROVED

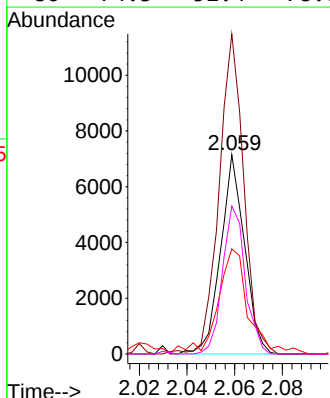
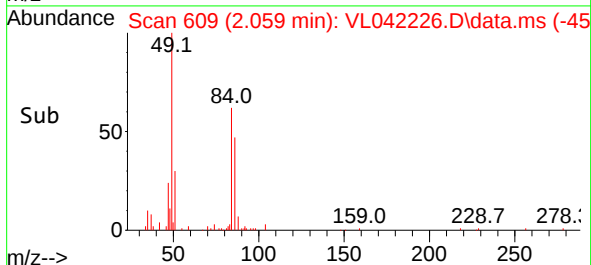
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

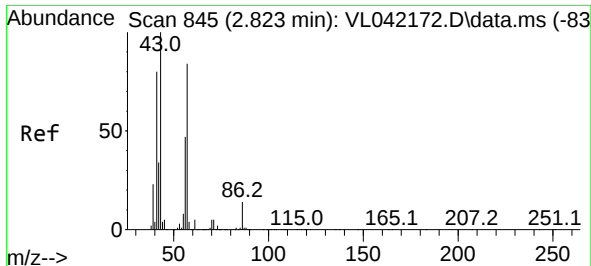


#20
Methylene Chloride
Concen: 0.493 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24



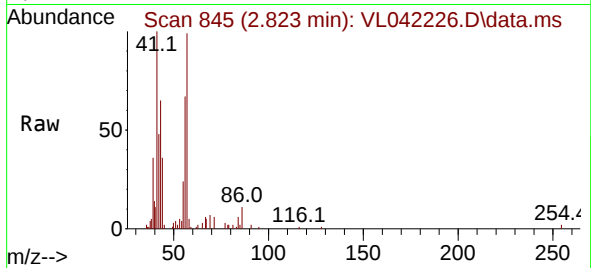
Tgt Ion: 84 Resp: 4996
Ion Ratio Lower Upper
84 100
49 167.3 120.2 180.4
51 48.9 37.4 56.0
86 74.3 52.4 78.6





#26
Hexane
Concen: 0.229 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

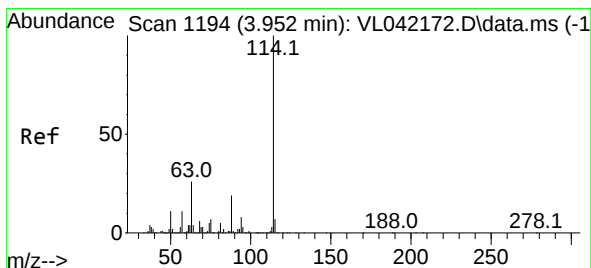
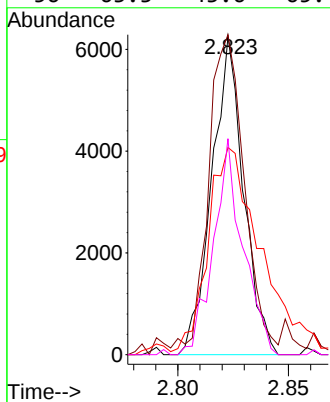
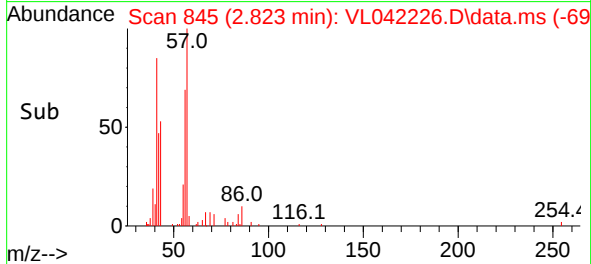
Instrument :
MSVOA_L
ClientSampleId :
OA1



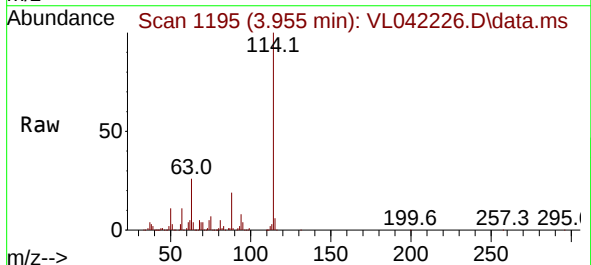
Tgt Ion: 57 Resp: 6248
Ion Ratio Lower Upper
57 100
41 118.3 76.6 114.8
43 112.5 207.8 311.8
56 63.3 43.6 65.4

Manual Integrations
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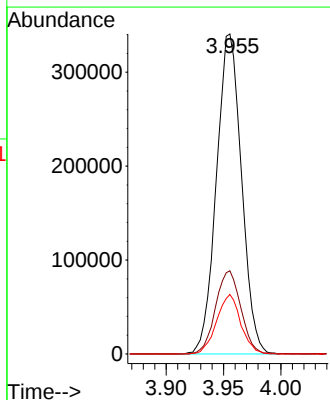
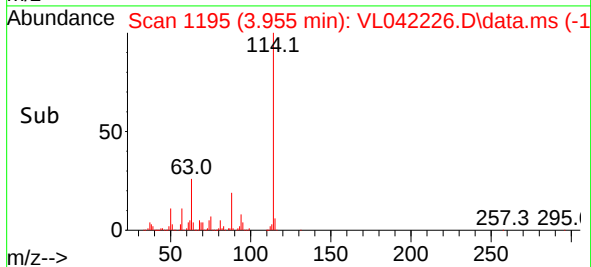
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

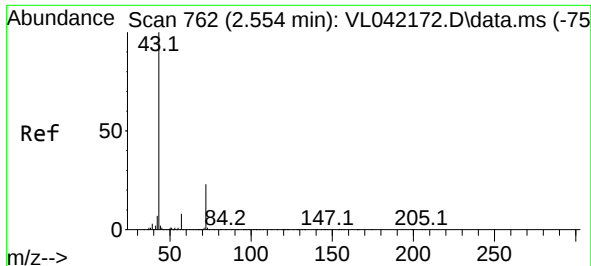


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24



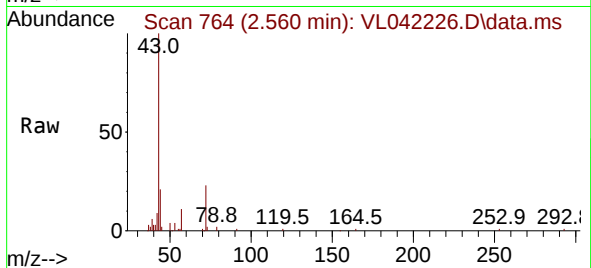
Tgt Ion:114 Resp: 518092
Ion Ratio Lower Upper
114 100
63 26.2 20.7 31.1
88 17.9 15.0 22.4





#34
2-Butanone
Concen: 0.336 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

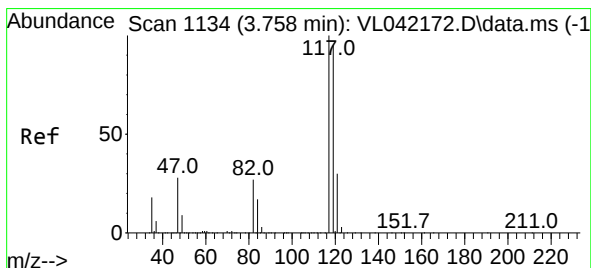
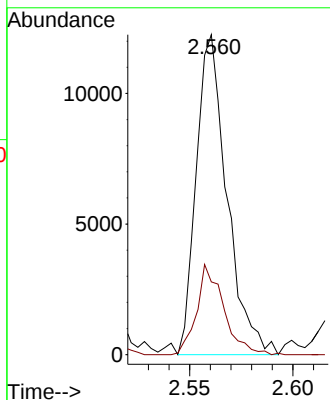
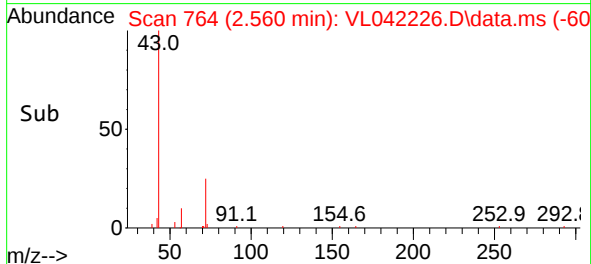
Instrument :
MSVOA_L
ClientSampleId :
OA1



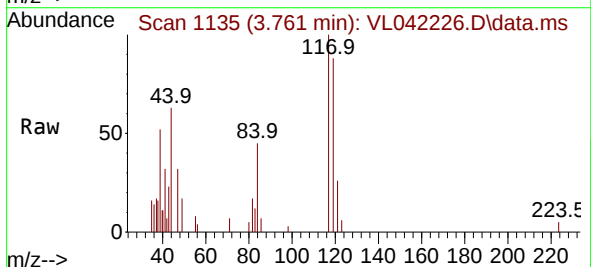
Tgt Ion: 43 Resp: 12639
Ion Ratio Lower Upper
43 100
72 24.9 18.2 27.2

Manual Integrations
APPROVED

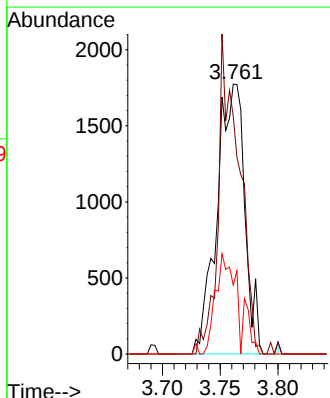
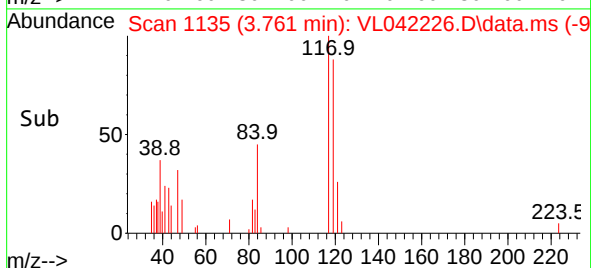
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

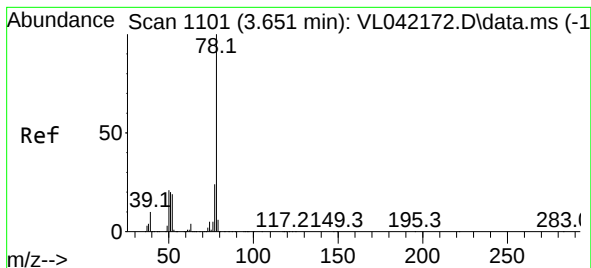


#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24



Tgt Ion:117 Resp: 2994
Ion Ratio Lower Upper
117 100
119 88.3 76.2 114.2
121 25.6 24.2 36.4





#36

Benzene

Concen: 0.157 ppbv

RT: 3.648 min Scan# 1100

Delta R.T. -0.003 min

Lab File: VL042226.D

Acq: 04 Apr 2025 16:24

Instrument :

MSVOA_L

ClientSampleId :

OA1

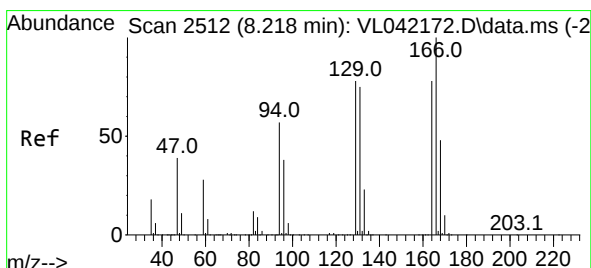
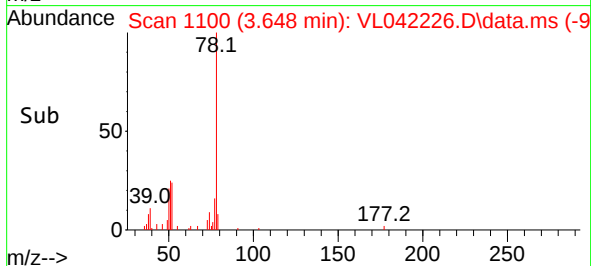
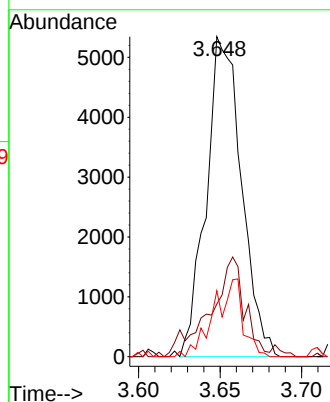
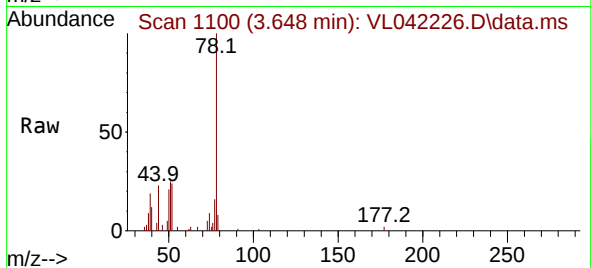
Tgt Ion: 78	Resp: 804
Ion Ratio	Lower Upper
78	100
77	14.6 19.1 28.7
50	20.6 16.6 24.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#52

Tetrachloroethene

Concen: 0.368 ppbv

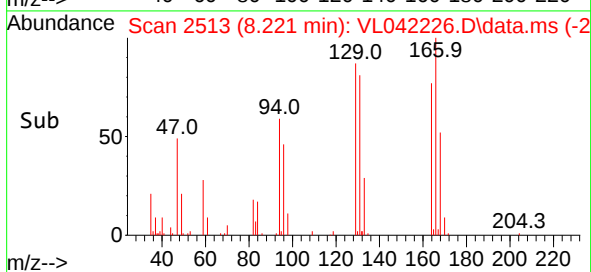
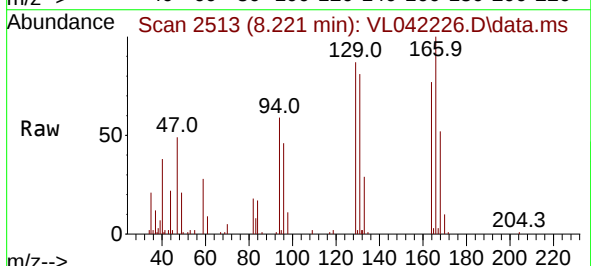
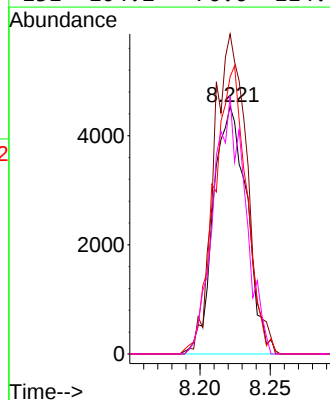
RT: 8.221 min Scan# 2513

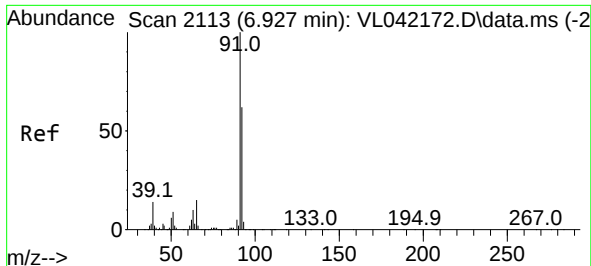
Delta R.T. 0.003 min

Lab File: VL042226.D

Acq: 04 Apr 2025 16:24

Tgt Ion:164	Resp: 7487
Ion Ratio	Lower Upper
164	100
166	129.3 102.5 153.7
129	111.9 79.8 119.8
131	104.2 76.6 114.8





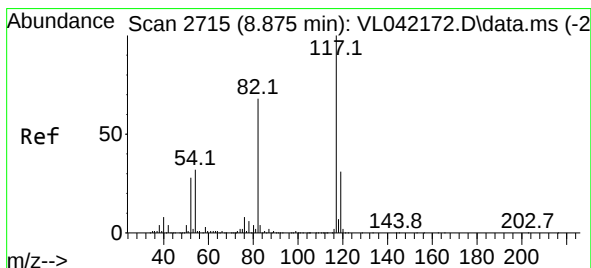
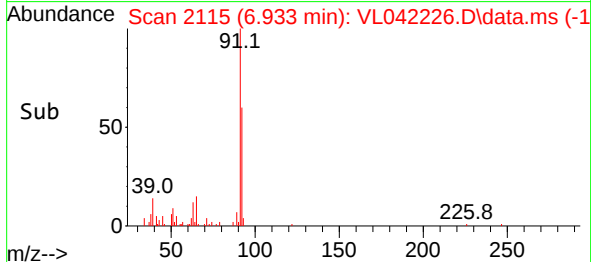
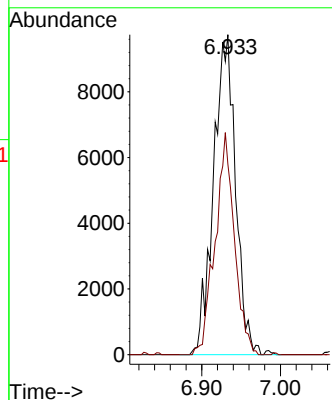
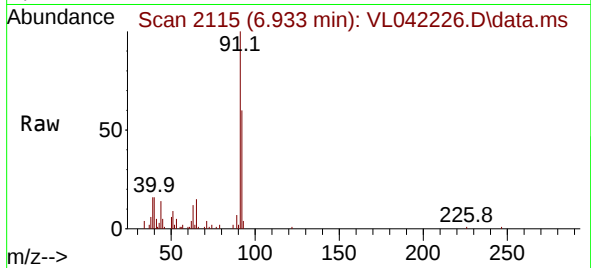
#53
Toluene
Concen: 0.312 ppbv m
RT: 6.933 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 1901
Ion Ratio Lower Upper
91 100
92 60.6 48.4 72.6

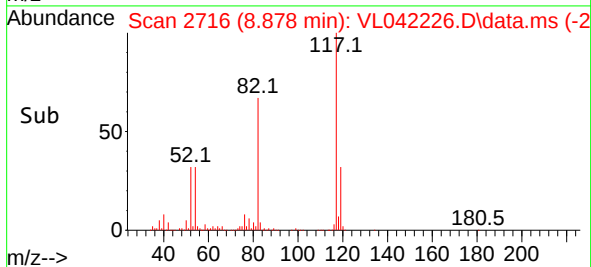
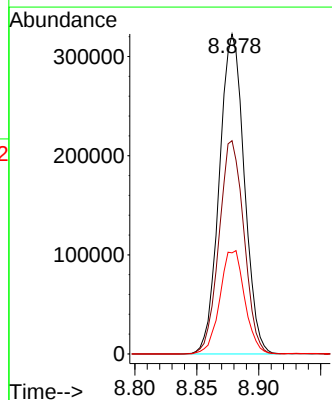
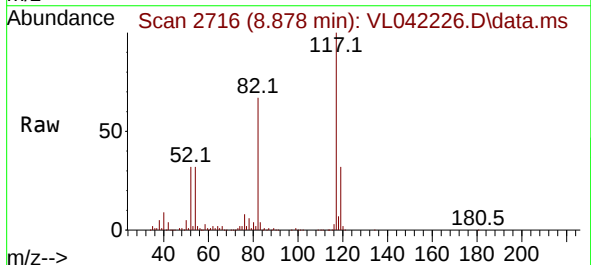
Manual Integrations
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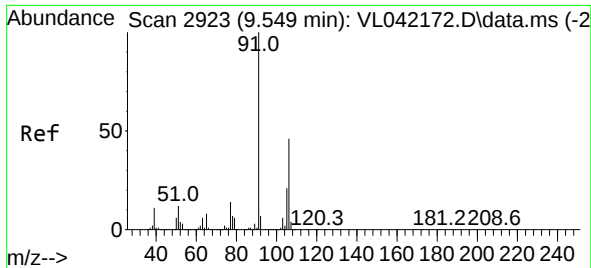
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

Tgt Ion:117 Resp: 453107
Ion Ratio Lower Upper
117 100
82 66.6 55.8 83.6
119 32.3 25.5 38.3





#59

m/p-Xylene

Concen: 0.123 ppbv m

RT: 9.529 min Scan# 2917

Delta R.T. -0.020 min

Lab File: VL042226.D

Acq: 04 Apr 2025 16:24

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 91 Resp: 7889

Ion Ratio Lower Upper

91 100

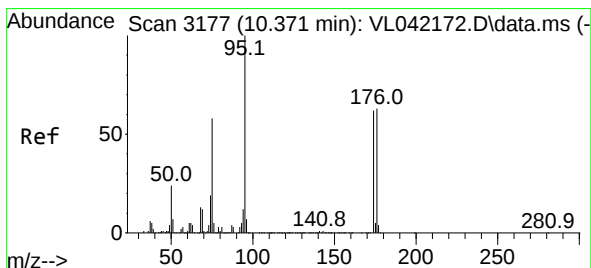
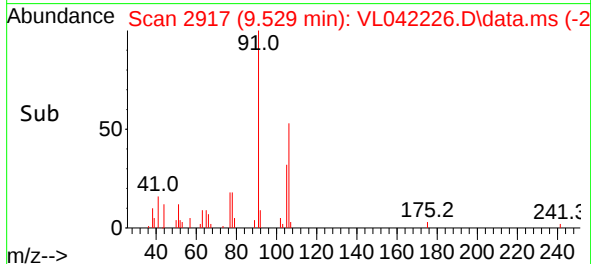
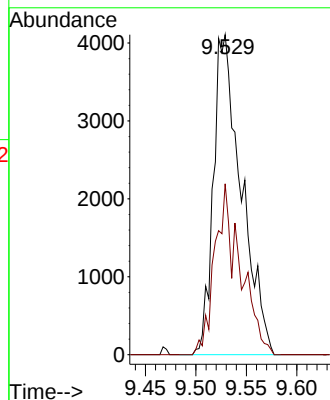
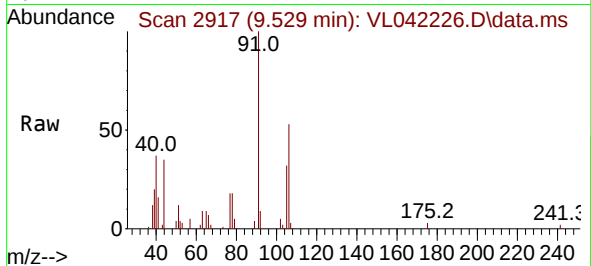
106 0.0 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.800 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.003 min

Lab File: VL042226.D

Acq: 04 Apr 2025 16:24

Tgt Ion: 95 Resp: 364662

Ion Ratio Lower Upper

95 100

174 59.7 50.6 76.0

175 4.6 3.8 5.6

