

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042224.D
 Acq On : 04 Apr 2025 14:26
 Operator : SY/MD
 Sample : Q1691-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

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

Quant Time: Apr 05 02:03:57 2025

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

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

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

Response via : Initial Calibration

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

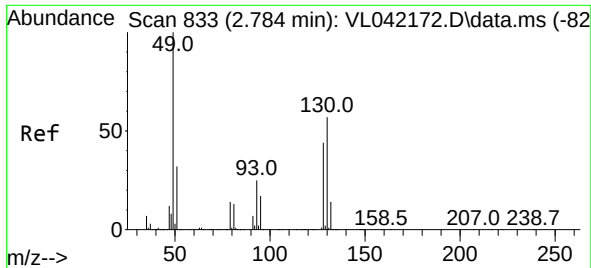
Internal Standards						
1) Bromochloromethane	2.787	49	191073	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	505458	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	449107	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	360553	9.776	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10740	0.381	ppbv	94
3) Chlorodifluoromethane	1.476	51	12078m	0.419	ppbv	
4) Chloromethane	1.531	50	12261	1.063	ppbv	95
9) Propene	1.483	41	6623	0.501	ppbv	99
11) Trichlorofluoromethane	1.878	101	5900	0.215	ppbv	99
13) Ethanol	1.719	45	291694	233.585	ppbv	82
15) Acetone	1.836	43	221309	8.282	ppbv	90
19) Isopropyl Alcohol	1.884	45	182022	12.072	ppbv #	32
20) Methylene Chloride	2.059	84	5268	0.529	ppbv	96
26) Hexane	2.823	57	9013	0.336	ppbv #	57
29) Chloroform	2.849	83	26637	0.679	ppbv	92
34) 2-Butanone	2.564	43	14042	0.383	ppbv	95
35) Carbon Tetrachloride	3.761	117	8113	0.205	ppbv	87
36) Benzene	3.651	78	11487m	0.229	ppbv	
41) Tetrahydrofuran	3.062	42	4040m	0.191	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	8430m	0.100	ppbv	
52) Tetrachloroethene	8.218	164	1648m	0.083	ppbv	
53) Toluene	6.927	91	19163m	0.323	ppbv	
59) m/p-Xylene	9.536	91	13598m	0.213	ppbv	
60) o-Xylene	9.966	91	6365	0.100	ppbv	97
61) Styrene	9.872	104	4812	0.152	ppbv	96

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

Manual Integrations

Quant Time: Apr 05 02:03:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





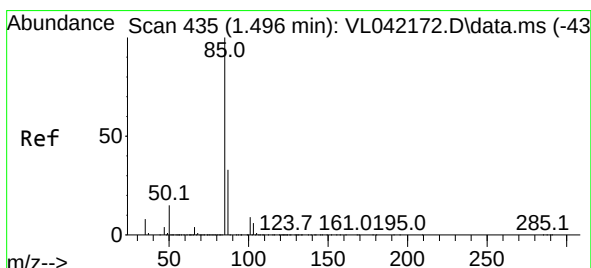
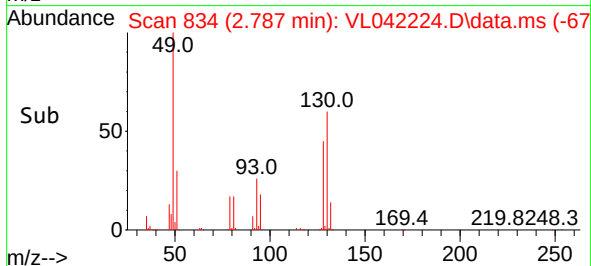
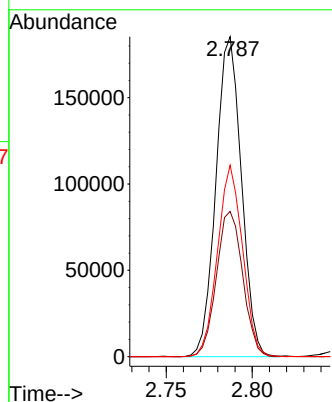
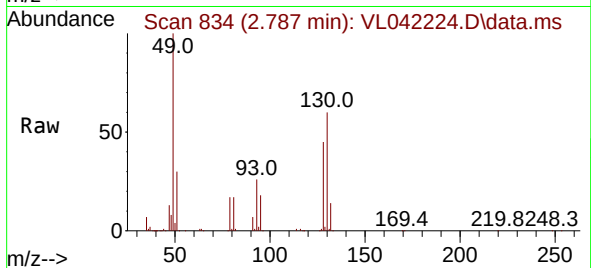
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 49 Resp: 19107
Ion Ratio Lower Upper
49 100
128 46.8 22.9 68.5
130 58.7 28.8 86.4

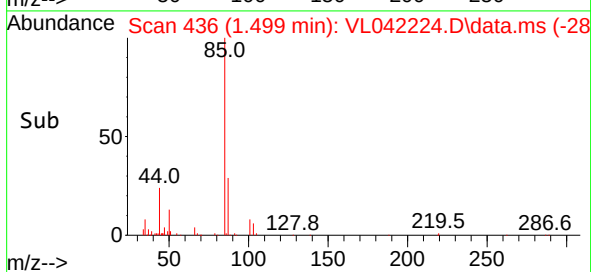
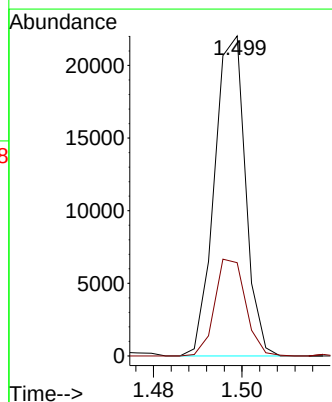
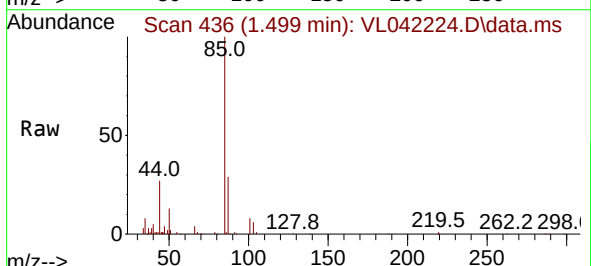
Manual Integrations
APPROVED

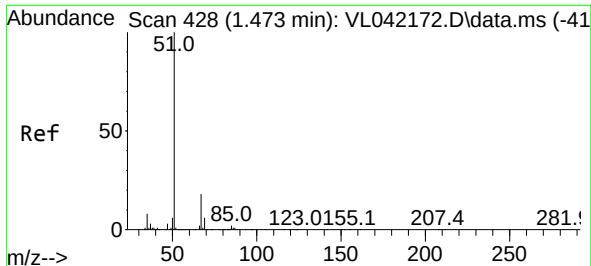
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#2
Dichlorodifluoromethane
Concen: 0.381 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

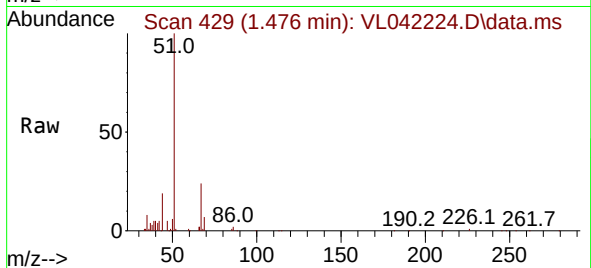
Tgt Ion: 85 Resp: 10740
Ion Ratio Lower Upper
85 100
87 29.2 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.419 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

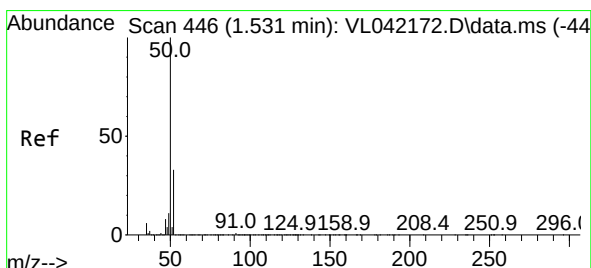
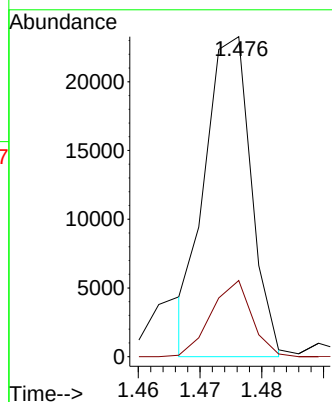
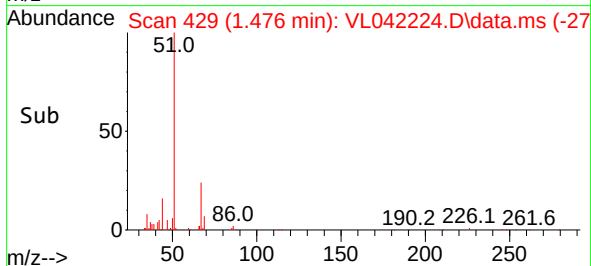
Instrument :
MSVOA_L
ClientSampleId :
IA3



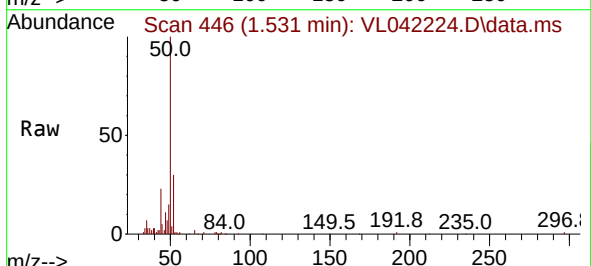
Tgt Ion: 51 Resp: 12078
Ion Ratio Lower Upper
51 100
67 21.0 15.0 22.6

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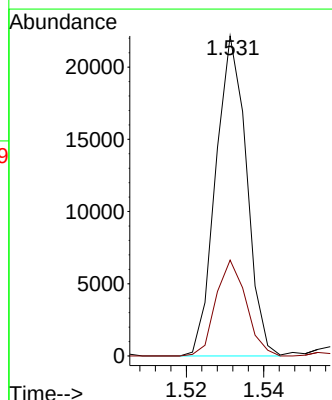
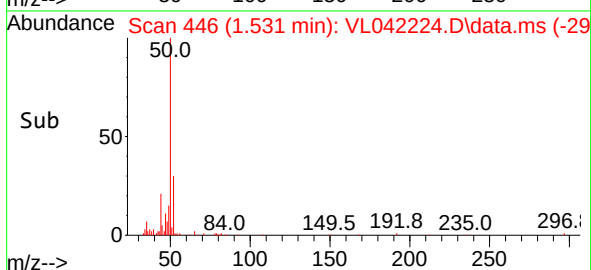
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

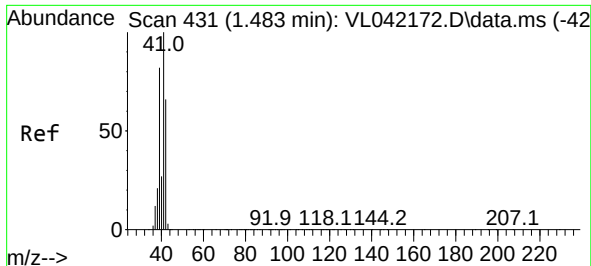


#4
Chloromethane
Concen: 1.063 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26



Tgt Ion: 50 Resp: 12261
Ion Ratio Lower Upper
50 100
52 30.0 26.1 39.1





#9

Propene

Concen: 0.501 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042224.D

Acq: 04 Apr 2025 14:26

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tgt Ion: 41 Resp: 662

Ion Ratio Lower Upper

41 100

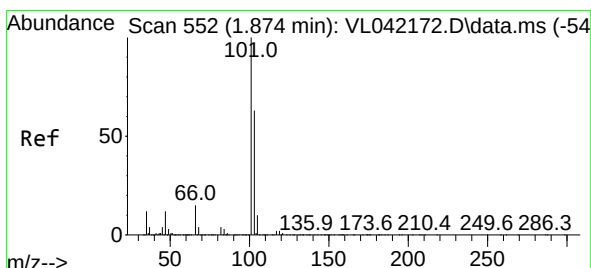
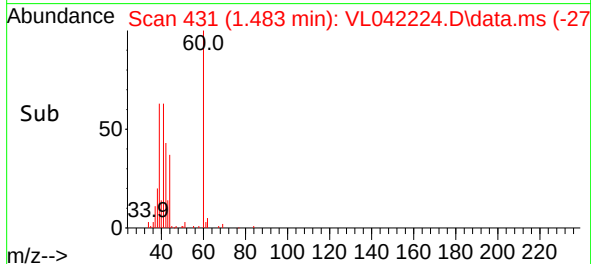
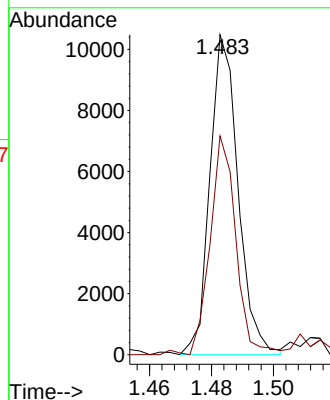
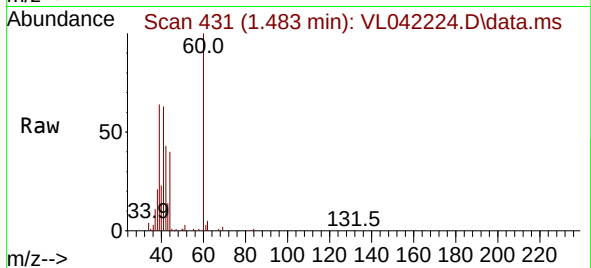
42 68.2 55.4 83.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#11

Trichlorofluoromethane

Concen: 0.215 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL042224.D

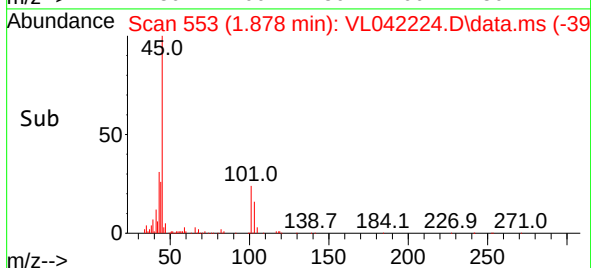
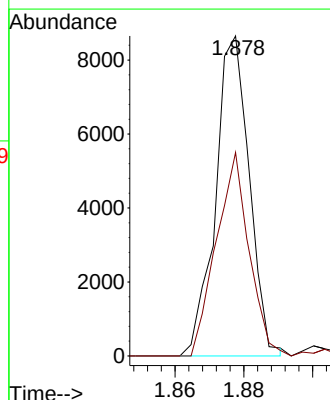
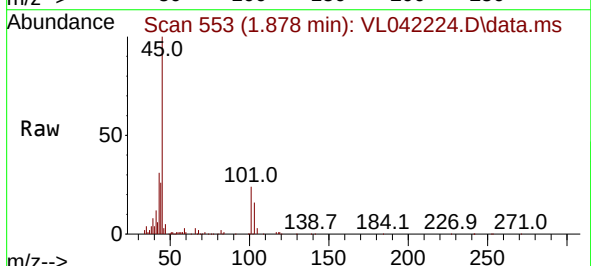
Acq: 04 Apr 2025 14:26

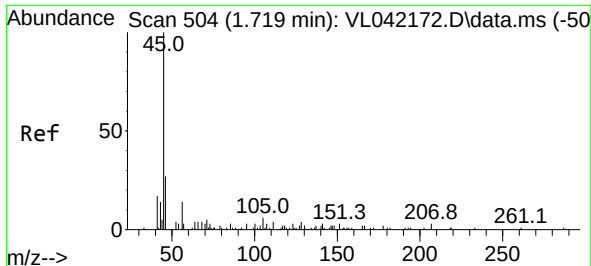
Tgt Ion:101 Resp: 5900

Ion Ratio Lower Upper

101 100

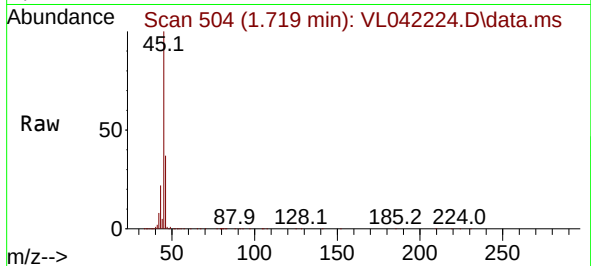
103 63.6 50.2 75.2





#13
Ethanol
Concen: 233.585 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

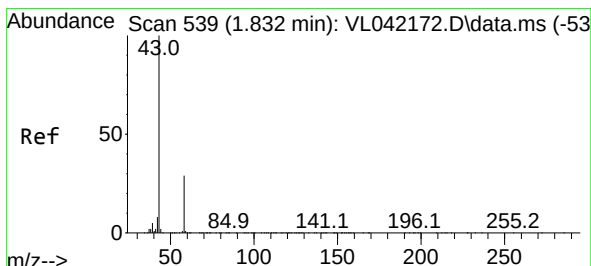
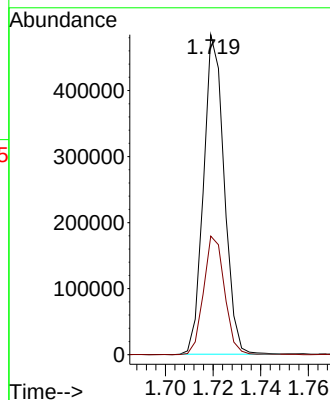
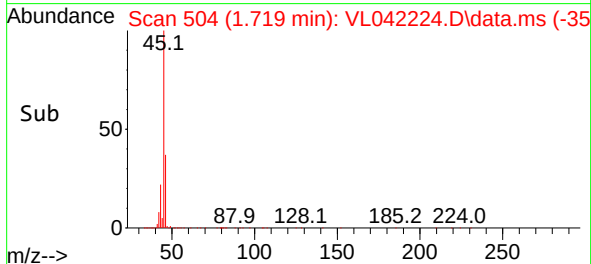
Instrument :
MSVOA_L
ClientSampleId :
IA3



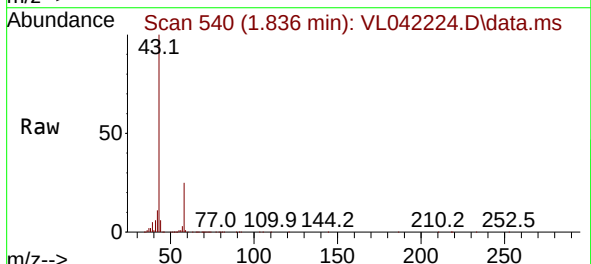
Tgt Ion: 45 Resp: 291694
Ion Ratio Lower Upper
45 100
46 38.2 20.2 80.8

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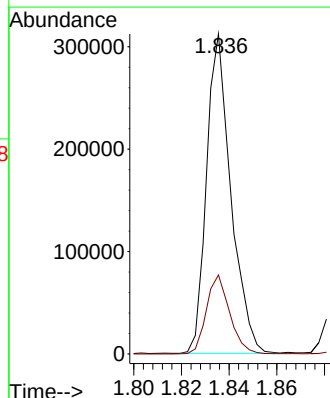
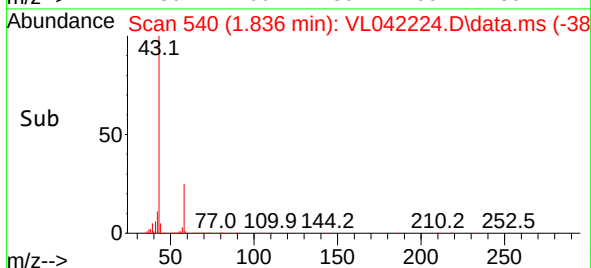
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

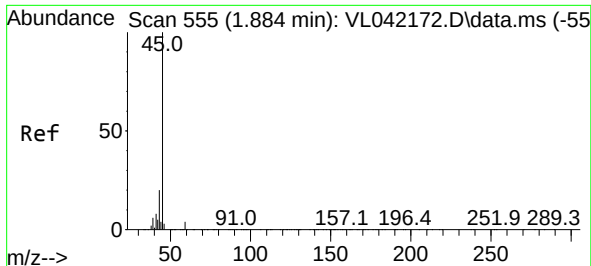


#15
Acetone
Concen: 8.282 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26



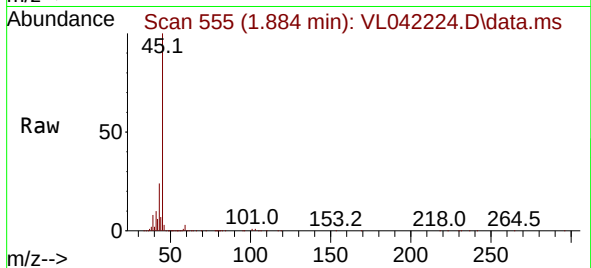
Tgt Ion: 43 Resp: 221309
Ion Ratio Lower Upper
43 100
58 23.8 23.2 34.8





#19
Isopropyl Alcohol
Concen: 12.072 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

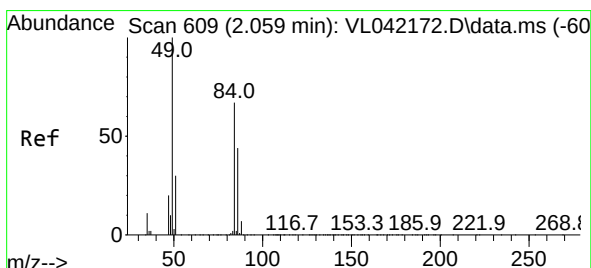
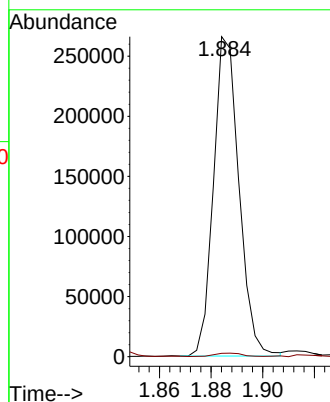
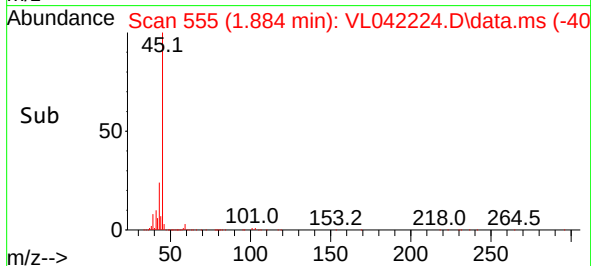
Instrument :
MSVOA_L
ClientSampleId :
IA3



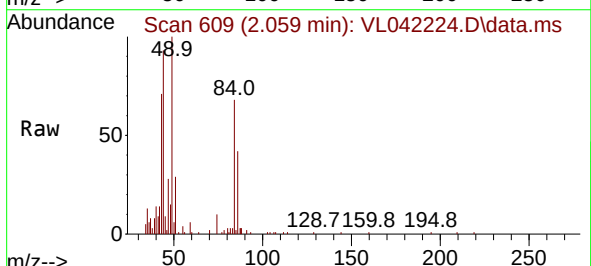
Tgt Ion: 45 Resp: 18202
Ion Ratio Lower Upper
45 100
58 1.4 36.9 55.3

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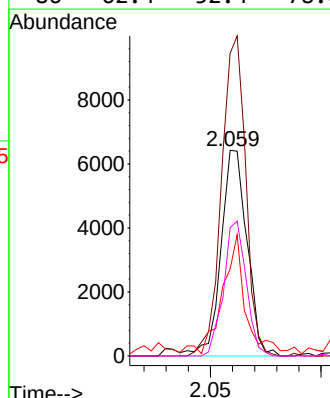
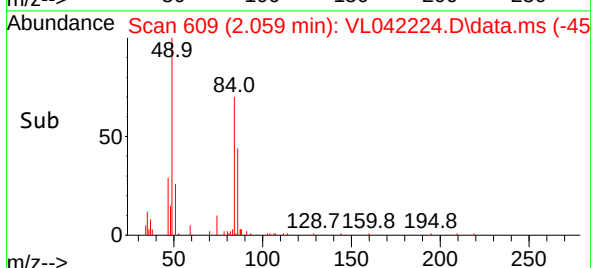
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

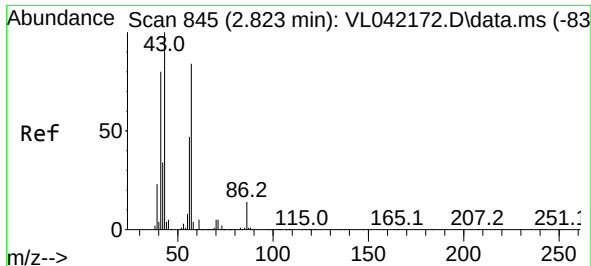


#20
Methylene Chloride
Concen: 0.529 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26



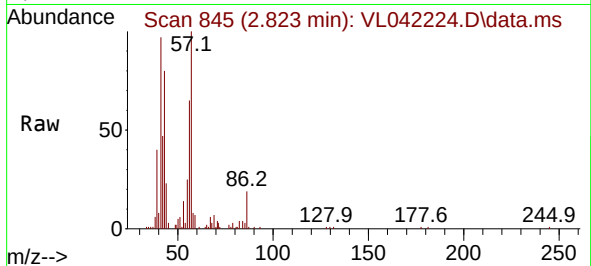
Tgt Ion: 84 Resp: 5268
Ion Ratio Lower Upper
84 100
49 147.2 120.2 180.4
51 40.6 37.4 56.0
86 62.4 52.4 78.6





#26
Hexane
Concen: 0.336 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

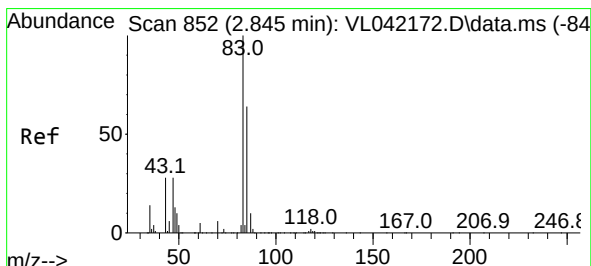
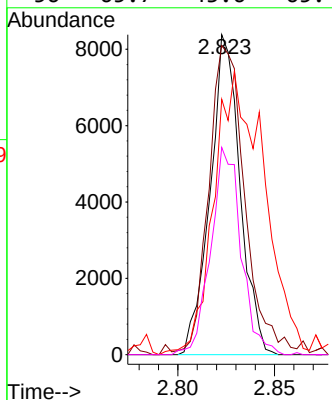
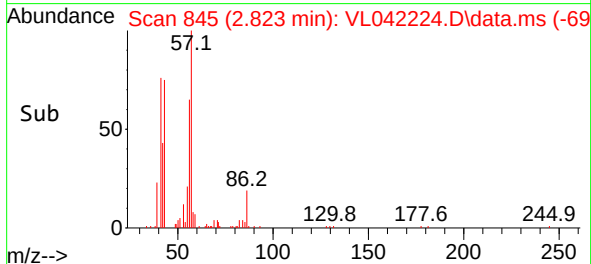
Instrument :
MSVOA_L
ClientSampleId :
IA3



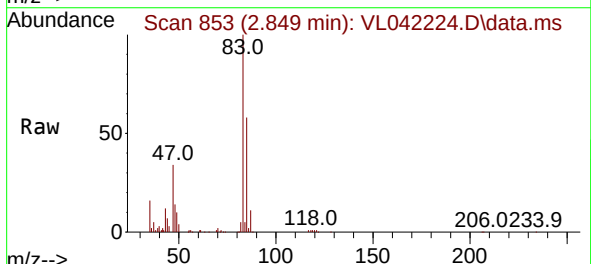
Tgt Ion: 57 Resp: 901
Ion Ratio Lower Upper
57 100
41 118.7 76.6 114.8
43 159.0 207.8 311.8
56 65.7 43.6 65.4#

Manual Integrations
APPROVED

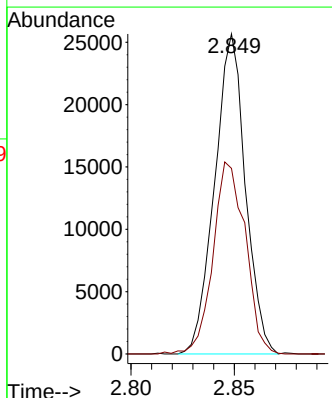
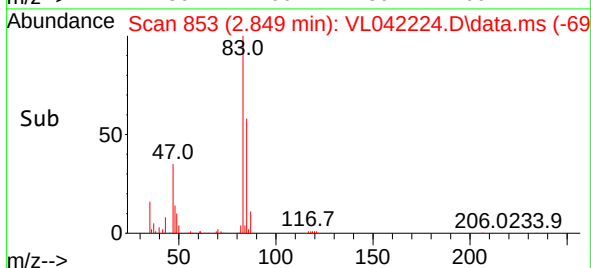
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

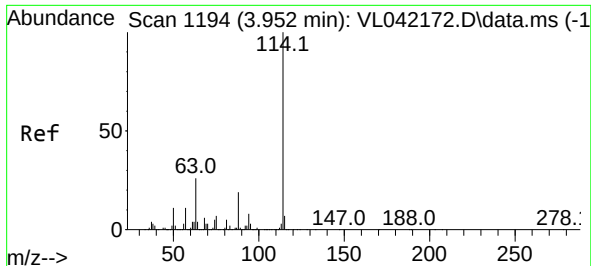


#29
Chloroform
Concen: 0.679 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26



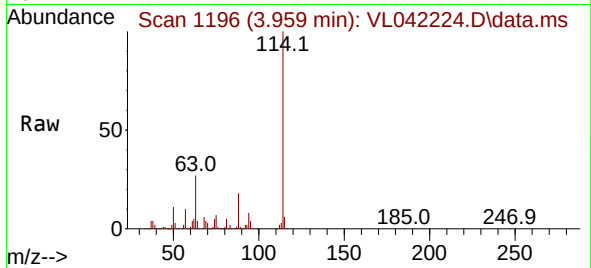
Tgt Ion: 83 Resp: 26637
Ion Ratio Lower Upper
83 100
85 57.7 51.4 77.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

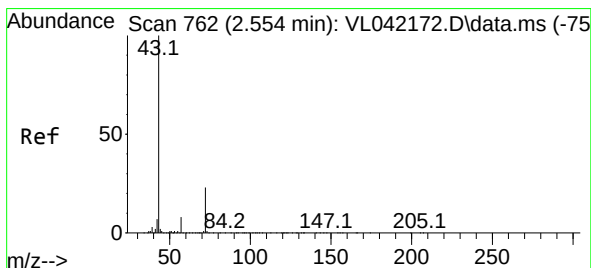
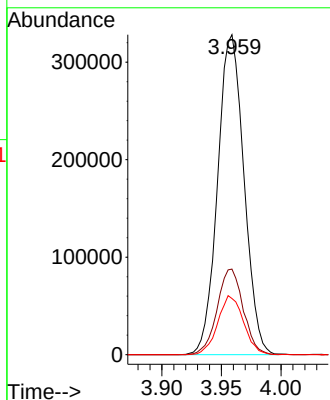
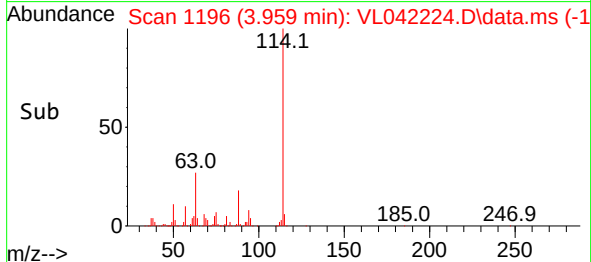
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:114 Resp: 505458
Ion Ratio Lower Upper
114 100
63 26.5 20.7 31.1
88 18.0 15.0 22.4

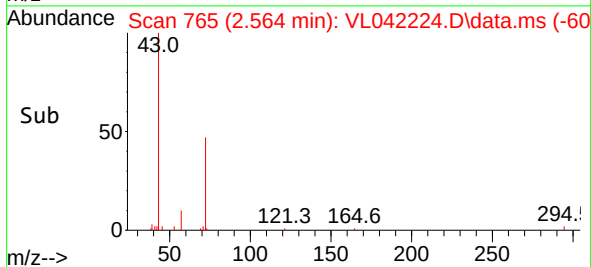
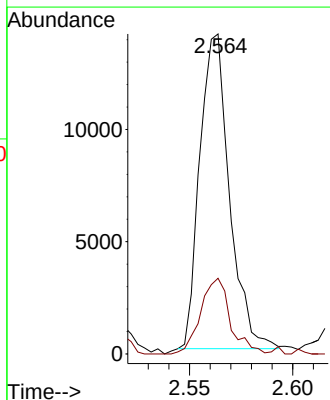
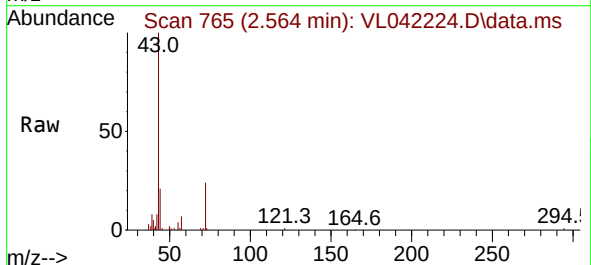
Manual Integrations
APPROVED

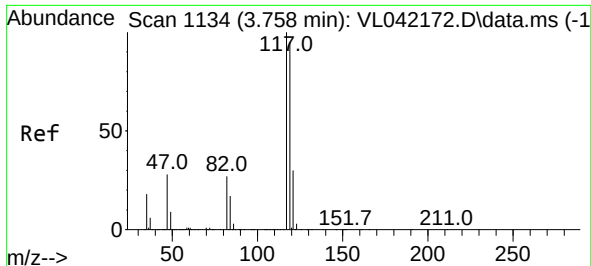
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#34
2-Butanone
Concen: 0.383 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

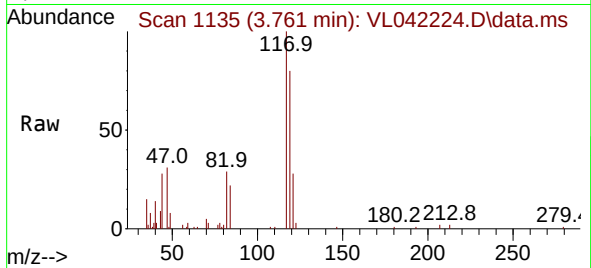
Tgt Ion: 43 Resp: 14042
Ion Ratio Lower Upper
43 100
72 25.0 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.205 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

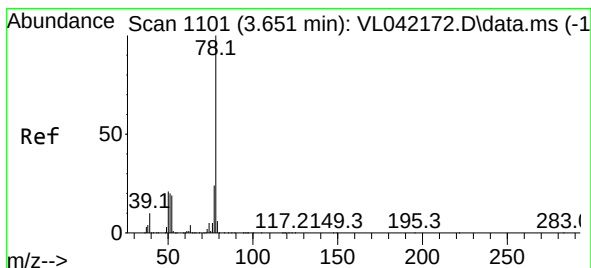
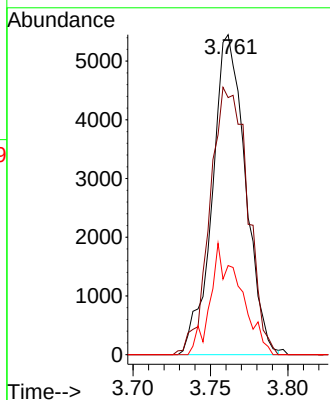
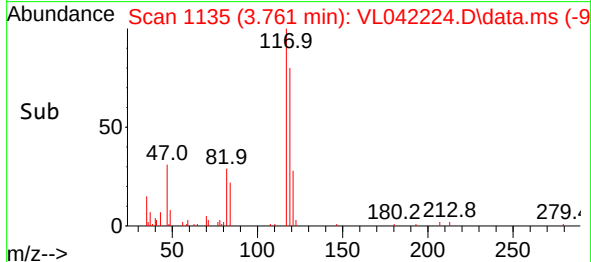
Instrument :
MSVOA_L
ClientSampleId :
IA3



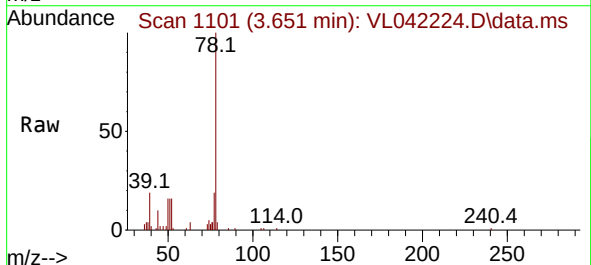
Tgt Ion: 117 Resp: 811
Ion Ratio Lower Upper
117 100
119 80.4 76.2 114.2
121 27.9 24.2 36.4

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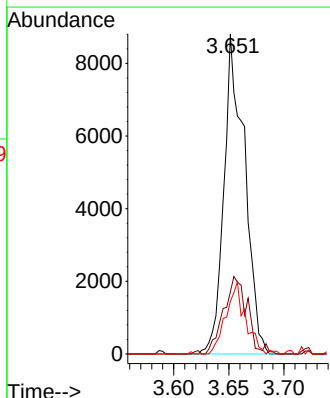
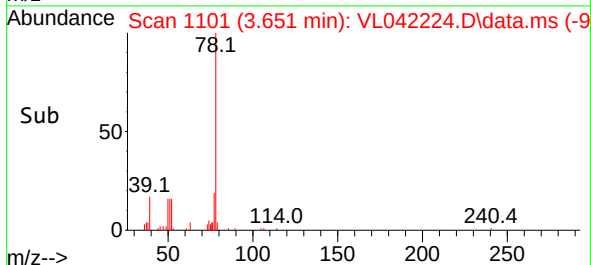
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

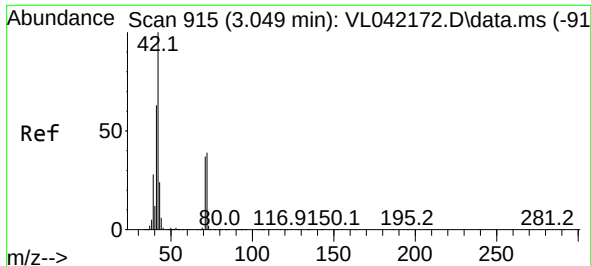


#36
Benzene
Concen: 0.229 ppbv m
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26



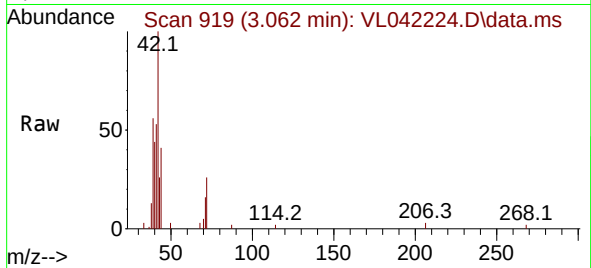
Tgt Ion: 78 Resp: 11487
Ion Ratio Lower Upper
78 100
77 19.4 19.1 28.7
50 16.4 16.6 24.8#





#41
Tetrahydrofuran
Concen: 0.191 ppbv m
RT: 3.062 min Scan# 915
Delta R.T. 0.013 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

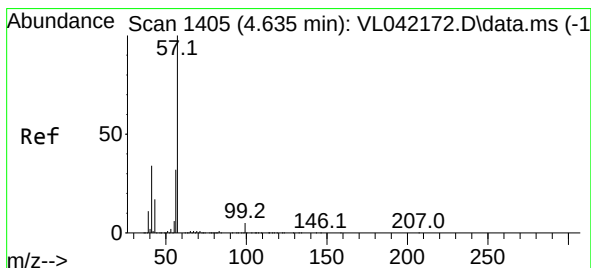
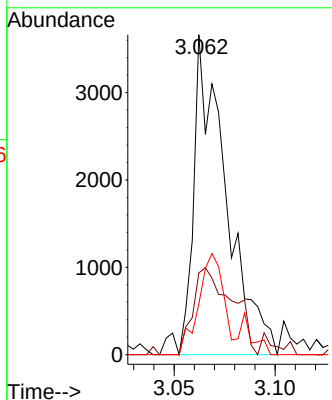
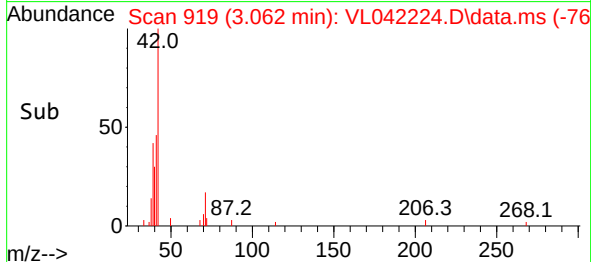
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 42 Resp: 4040
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 30.2 45.4#

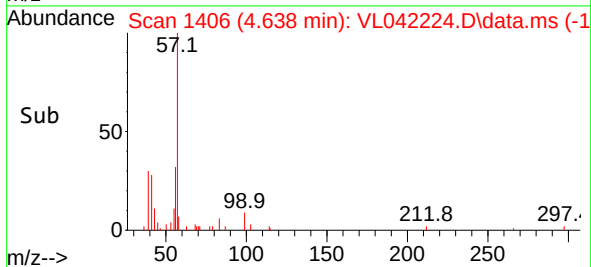
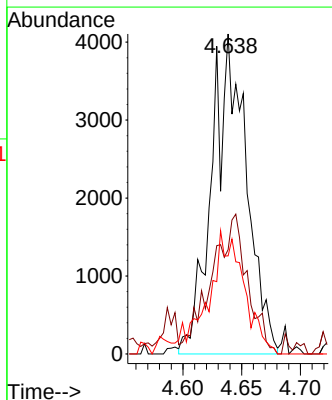
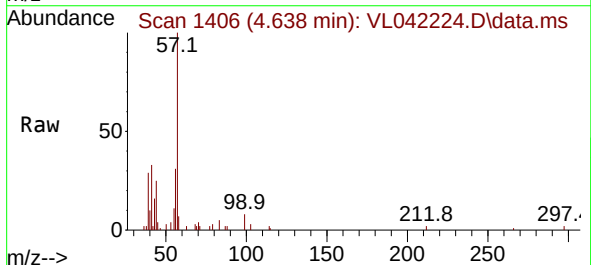
Manual Integrations
APPROVED

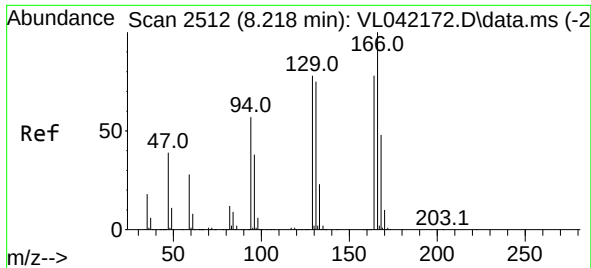
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#44
2,2,4-Trimethylpentane
Concen: 0.100 ppbv m
RT: 4.638 min Scan# 1406
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

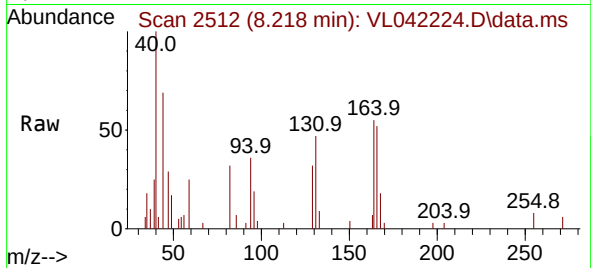
Tgt Ion: 57 Resp: 8430
Ion Ratio Lower Upper
57 100
41 54.8 26.8 40.2#
56 0.0 25.6 38.4#





#52
Tetrachloroethene
Concen: 0.083 ppbv m
RT: 8.218 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

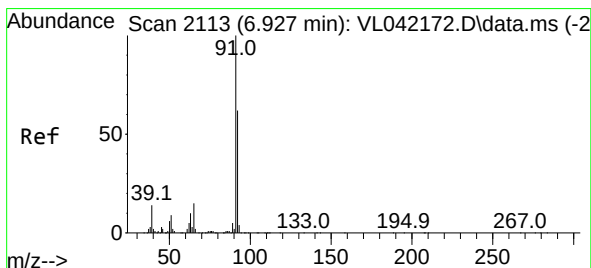
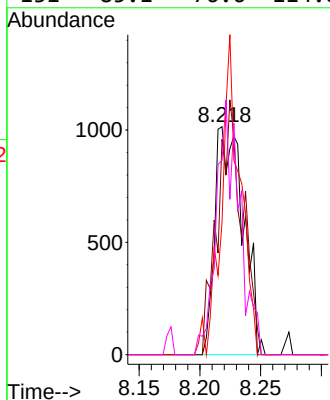
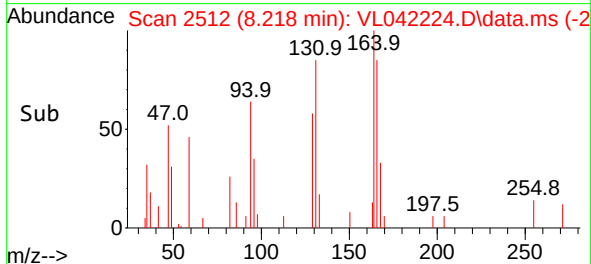
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:164 Resp: 164
Ion Ratio Lower Upper
164 100
166 94.5 102.5 153.7
129 58.1 79.8 119.8
131 85.1 76.6 114.8

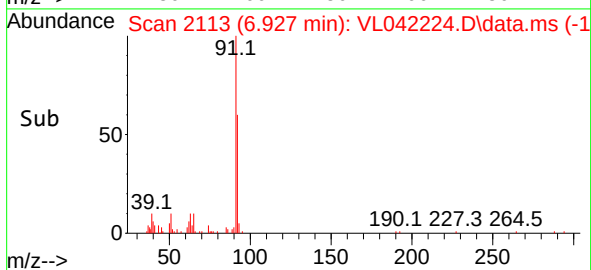
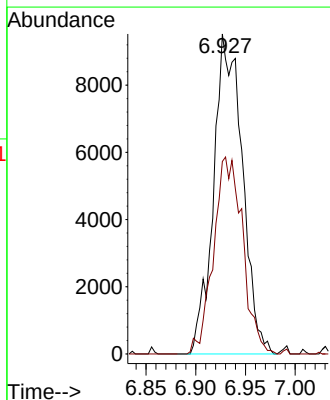
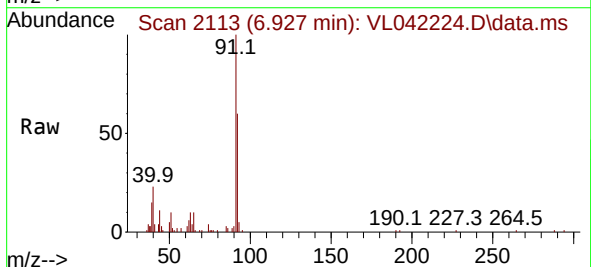
Manual Integrations
APPROVED

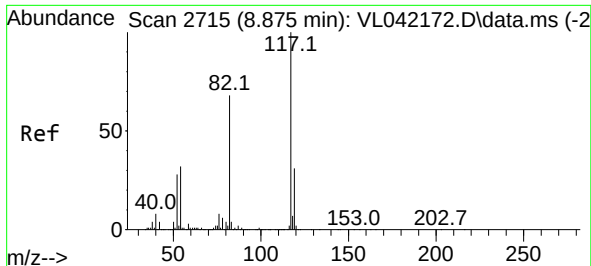
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#53
Toluene
Concen: 0.323 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

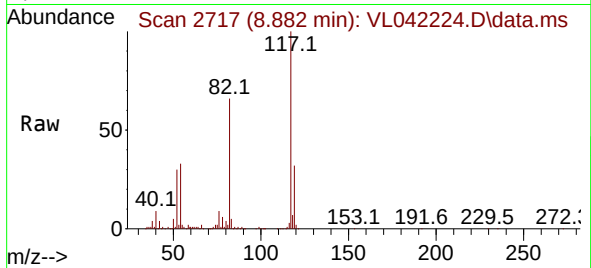
Tgt Ion: 91 Resp: 19163
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

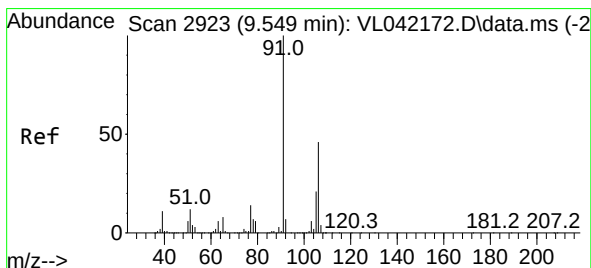
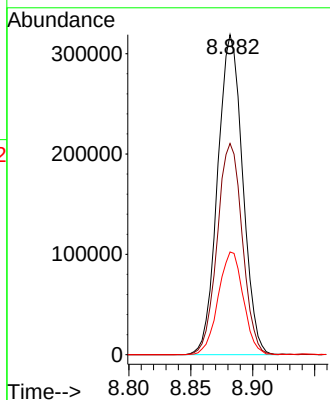
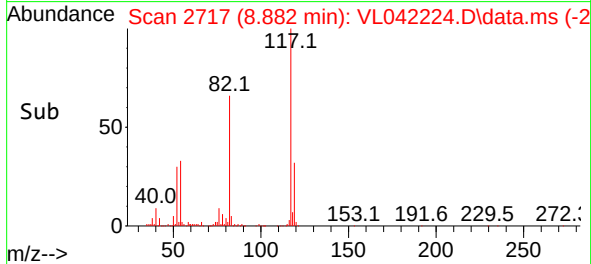
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:117 Resp: 44910
Ion Ratio Lower Upper
117 100
82 66.3 55.8 83.6
119 32.3 25.5 38.3

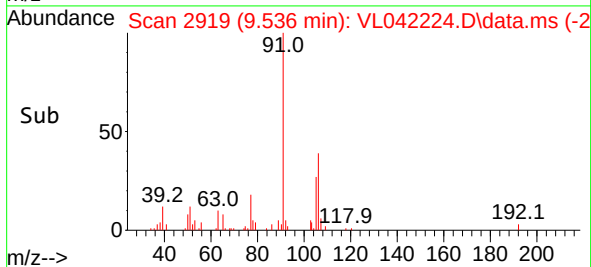
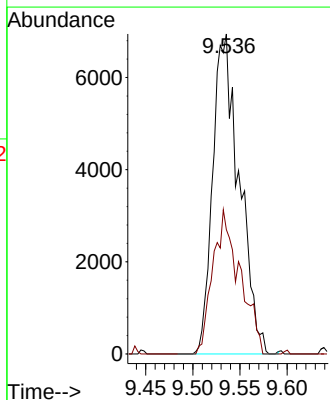
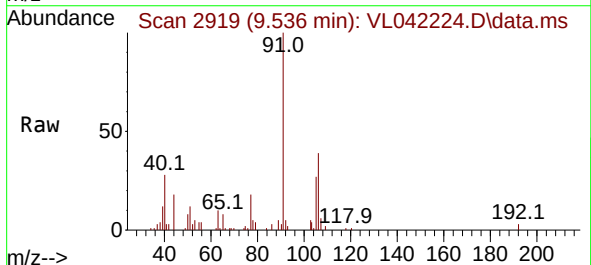
Manual Integrations
APPROVED

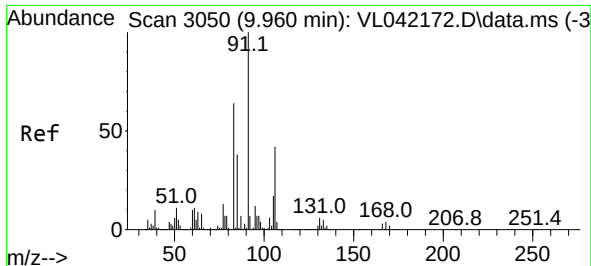
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#59
m/p-Xylene
Concen: 0.213 ppbv m
RT: 9.536 min Scan# 2919
Delta R.T. -0.013 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

Tgt Ion: 91 Resp: 13598
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#





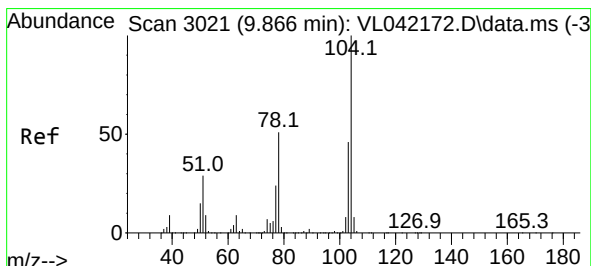
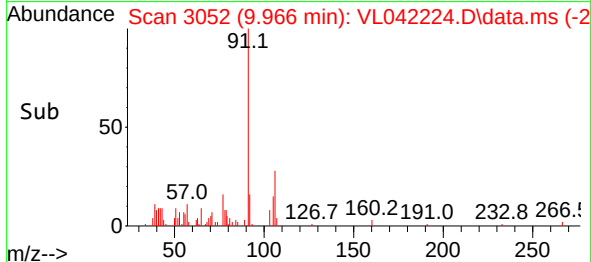
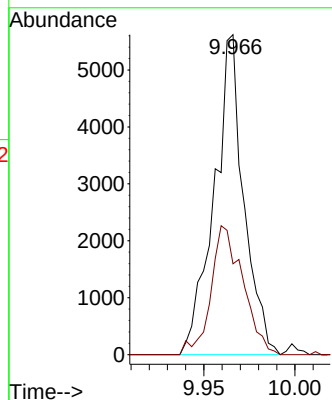
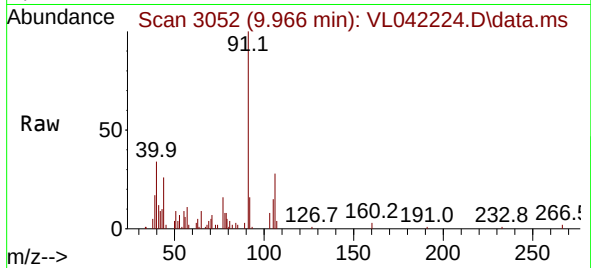
#60
o-Xylene
Concen: 0.100 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 91 Resp: 636
Ion Ratio Lower Upper
91 100
106 43.4 20.8 62.5

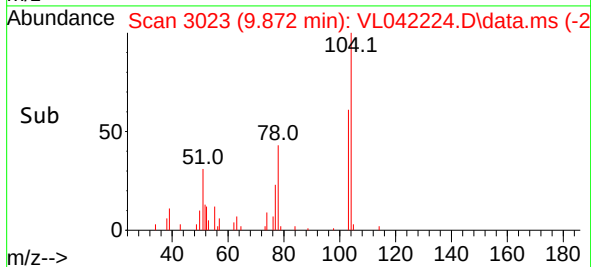
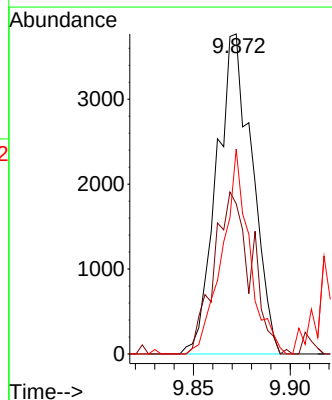
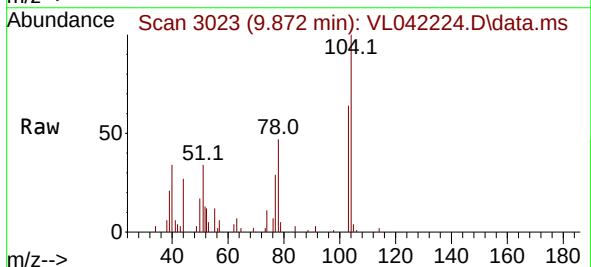
Manual Integrations
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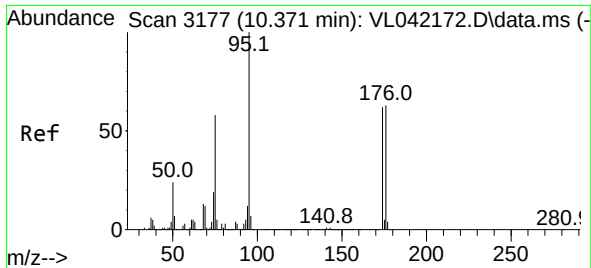
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#61
Styrene
Concen: 0.152 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.006 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

Tgt Ion:104 Resp: 4812
Ion Ratio Lower Upper
104 100
78 55.1 41.8 62.6
103 49.4 37.0 55.4





#68
1-Bromo-4-Fluorobenzene
Concen: 9.776 ppbv
RT: 10.377 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 95 Resp: 36055
Ion Ratio Lower Upper
95 100
174 60.7 50.6 76.0
175 4.5 3.8 5.6

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

