

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
 Data File : VL043089.D
 Acq On : 09 Oct 2025 15:31
 Operator : SY/MD
 Sample : Q3320-02 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 22:16:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	191613	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.936	114	543620	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	535675	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.357	95	428380	11.101	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.000%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.470	51	4716m	0.151	ppbv	
10) Heptane	4.952	43	12547m	0.405	ppbv	
11) Trichlorofluoromethane	1.868	101	214597	6.466	ppbv	98
13) Ethanol	1.712	45	14604	30.723	ppbv	91
15) Acetone	1.826	43	162252	6.048	ppbv	95
19) Isopropyl Alcohol	1.877	45	9785	0.761	ppbv #	1
20) Methylene Chloride	2.052	84	4187	0.358	ppbv	86
26) Hexane	2.813	57	73032	2.821	ppbv #	34
27) Carbon Disulfide	2.140	76	22478	0.735	ppbv #	27
29) Chloroform	2.832	83	24206	0.548	ppbv	94
30) Cyclohexane	3.839	84	2369m	0.111	ppbv	
32) 1,1,1-Trichloroethane	3.353	97	20342	0.474	ppbv	97
34) 2-Butanone	2.547	43	18507	0.502	ppbv	97
36) Benzene	3.641	78	6683m	0.129	ppbv	
38) Trichloroethene	4.525	130	3123349	144.359	ppbv	98
41) Tetrahydrofuran	3.049	42	4223m	0.222	ppbv	
51) 2-Hexanone	7.419	43	17534m	0.548	ppbv	
52) Tetrachloroethene	8.208	164	1610637	83.752	ppbv	98
53) Toluene	6.907	91	37614	0.717	ppbv	97
58) Ethyl Benzene	9.338	91	11436	0.138	ppbv	98
59) m/p-Xylene	9.513	91	25768	0.368	ppbv	99
60) o-Xylene	9.943	91	17164	0.246	ppbv	93

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

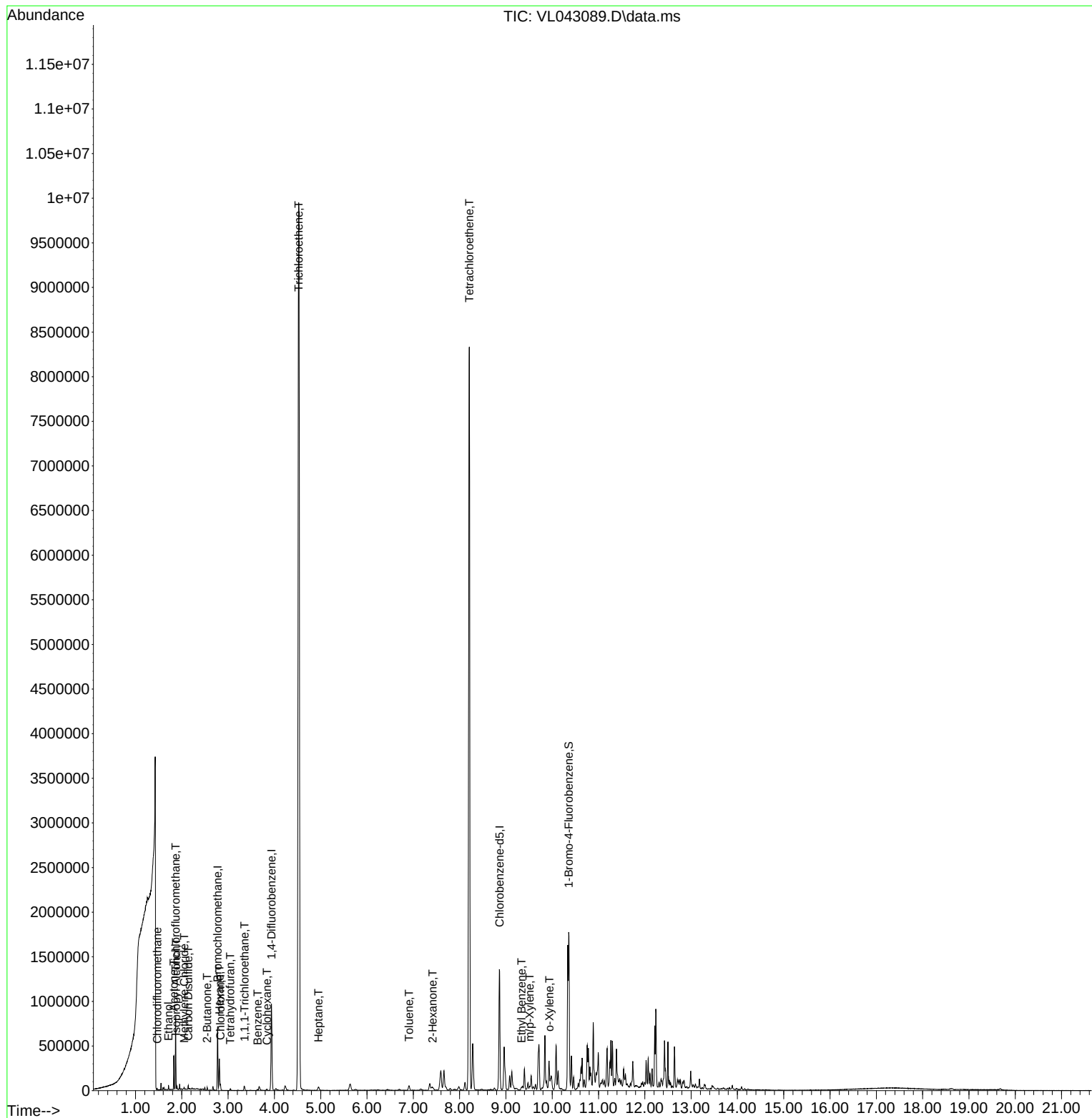
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
Data File : VL043089.D
Acq On : 09 Oct 2025 15:31
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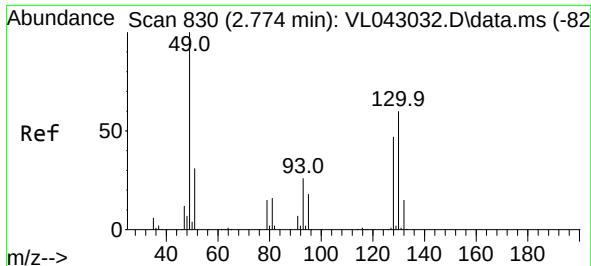
Instrument :
MSVOA_L
ClientSampleId :
SV1

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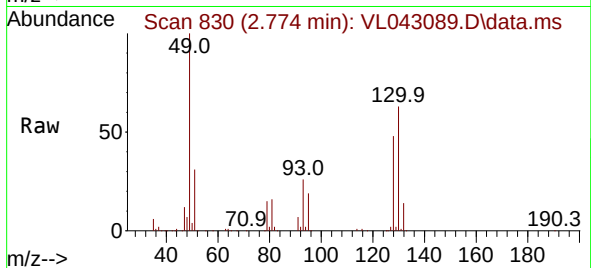
Quant Time: Oct 09 22:16:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.774 min Scan# 830
Delta R.T. -0.000 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

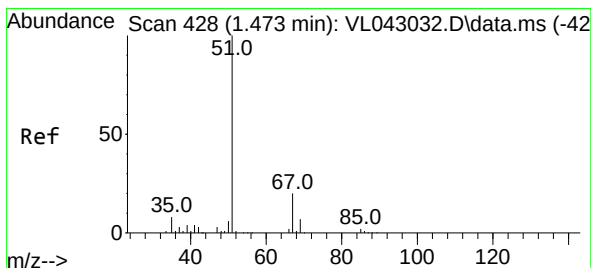
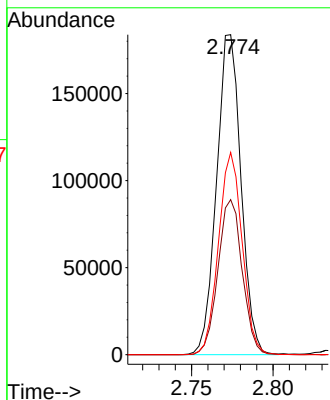
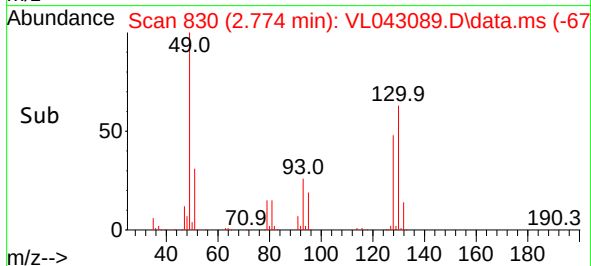
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 19161
Ion Ratio Lower Upper
49 100
128 48.2 24.1 72.2
130 61.1 31.4 94.3

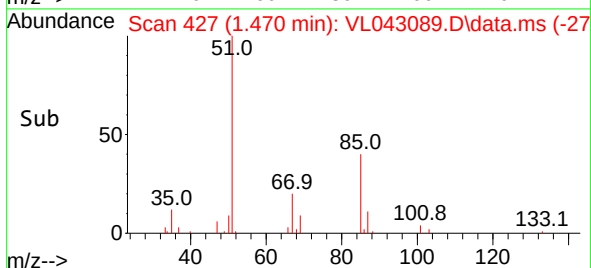
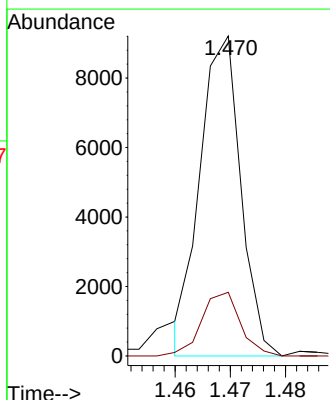
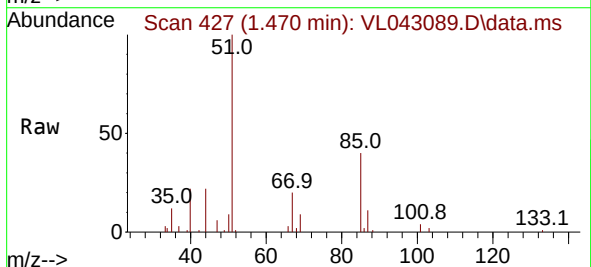
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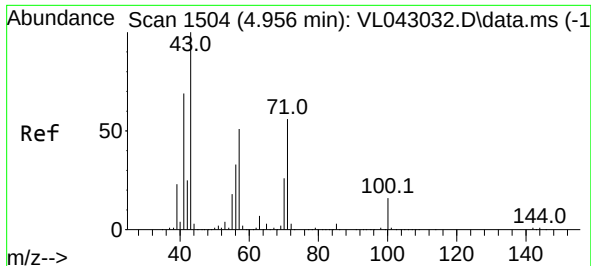
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#3
Chlorodifluoromethane
Concen: 0.151 ppbv m
RT: 1.470 min Scan# 427
Delta R.T. -0.003 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

Tgt Ion: 51 Resp: 4716
Ion Ratio Lower Upper
51 100
67 19.1 15.1 22.7





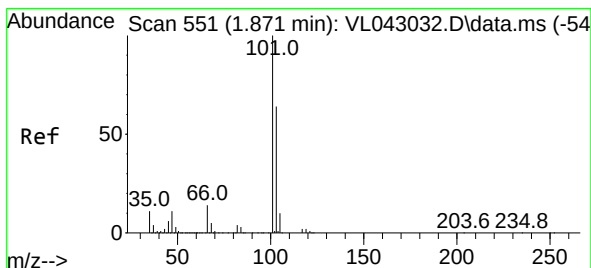
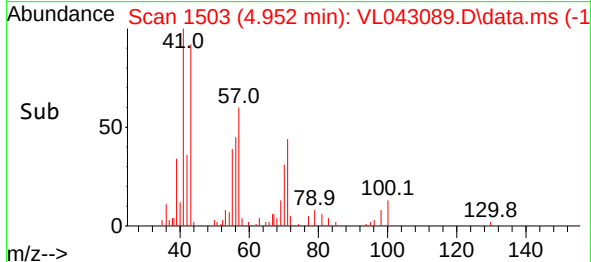
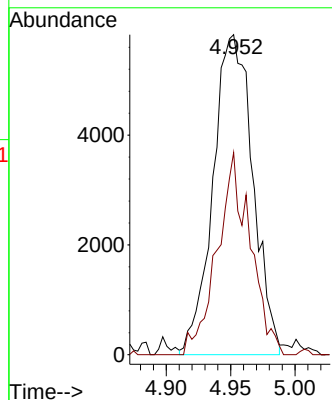
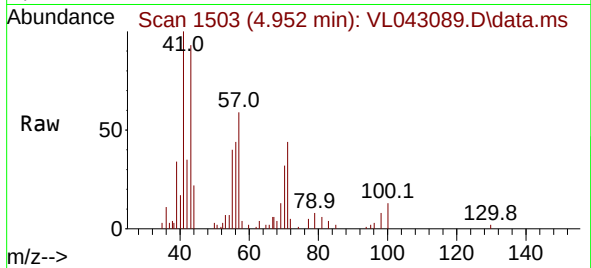
#10
Heptane
Concen: 0.405 ppbv m
RT: 4.952 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 1254
Ion Ratio Lower Upper
43 100
57 52.4 40.3 60.5

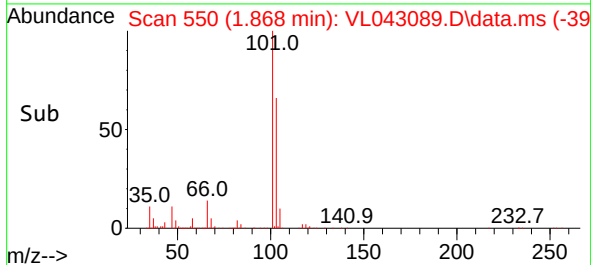
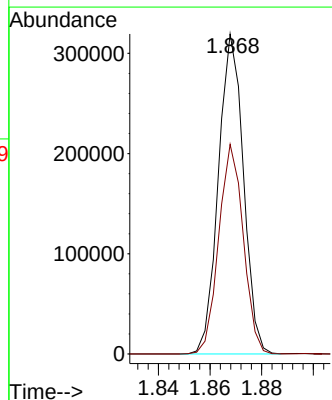
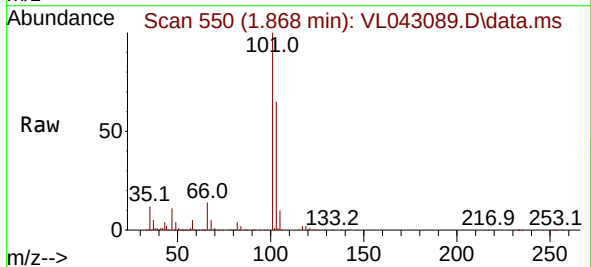
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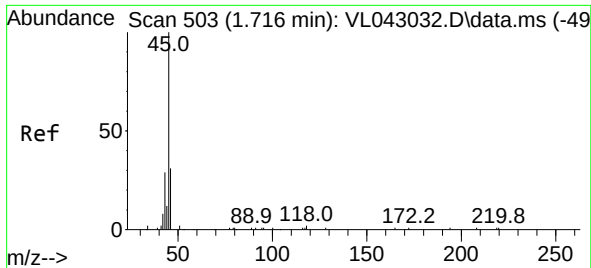
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#11
Trichlorofluoromethane
Concen: 6.466 ppbv
RT: 1.868 min Scan# 550
Delta R.T. -0.003 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

Tgt Ion:101 Resp: 214597
Ion Ratio Lower Upper
101 100
103 65.5 51.1 76.7





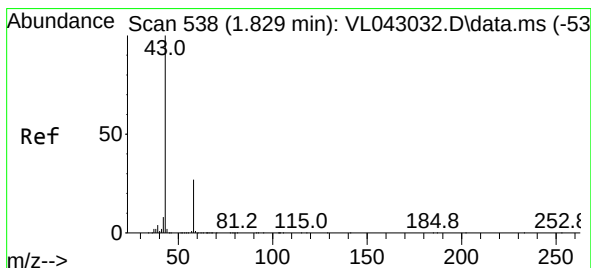
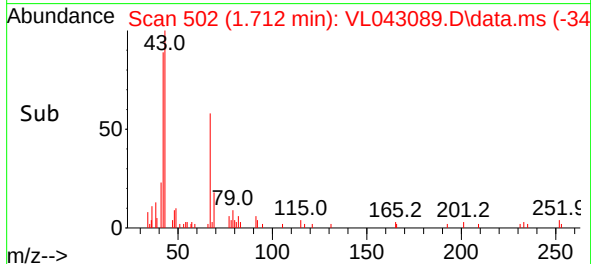
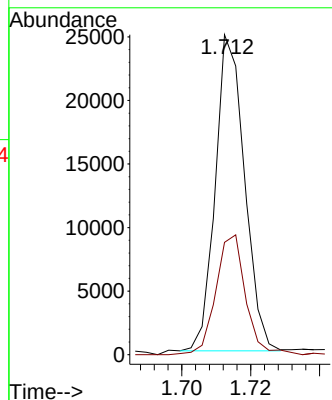
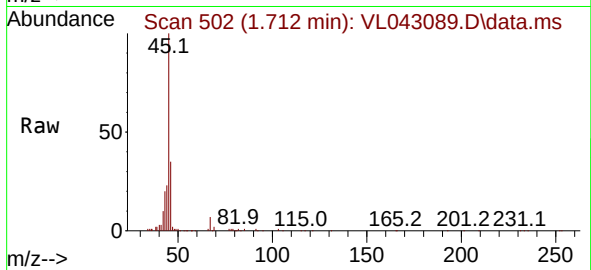
#13
Ethanol
Concen: 30.723 ppbv
RT: 1.712 min Scan# 503
Delta R.T. -0.004 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 14604
Ion Ratio Lower Upper
45 100
46 38.9 17.8 71.4

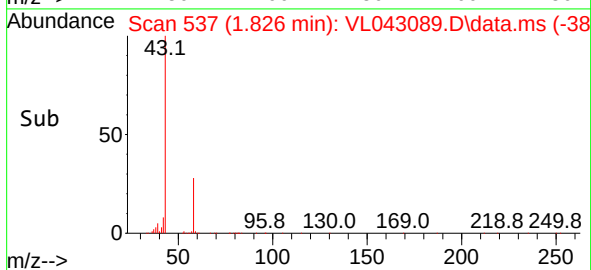
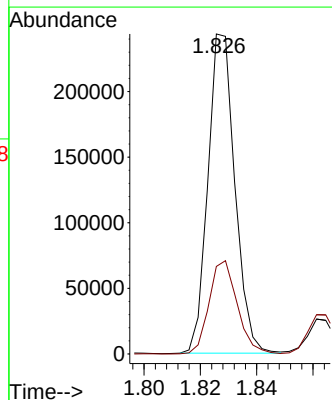
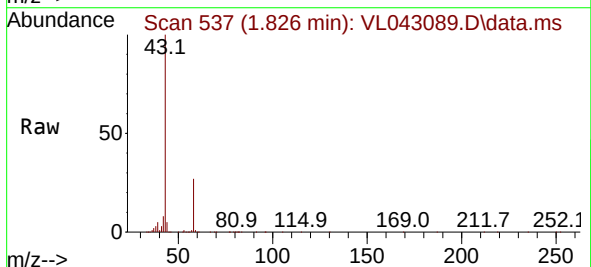
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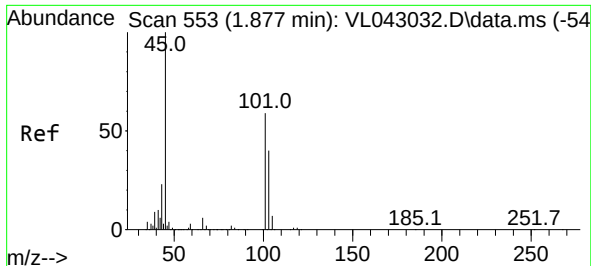
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#15
Acetone
Concen: 6.048 ppbv
RT: 1.826 min Scan# 537
Delta R.T. -0.003 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

Tgt Ion: 43 Resp: 162252
Ion Ratio Lower Upper
43 100
58 30.5 22.2 33.4





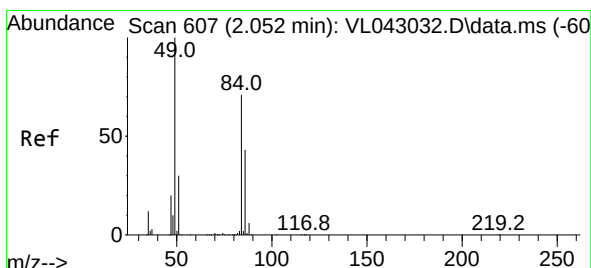
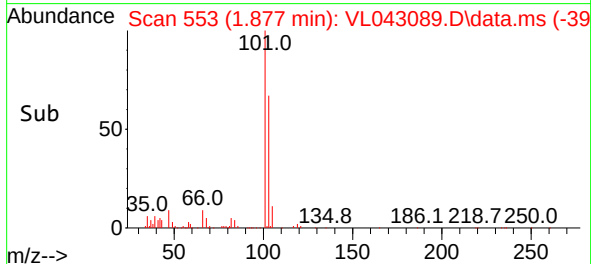
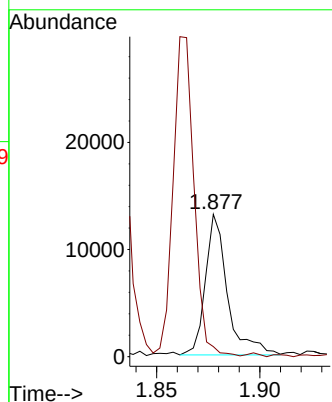
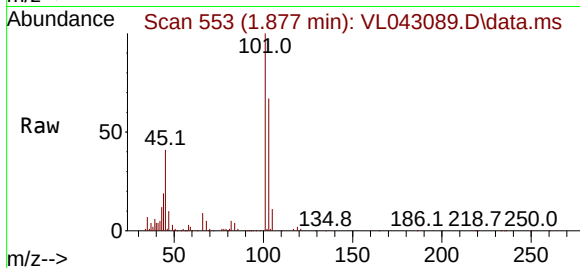
#19
Isopropyl Alcohol
Concen: 0.761 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.000 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 978
Ion Ratio Lower Upper
45 100
58 216.6 42.3 63.5

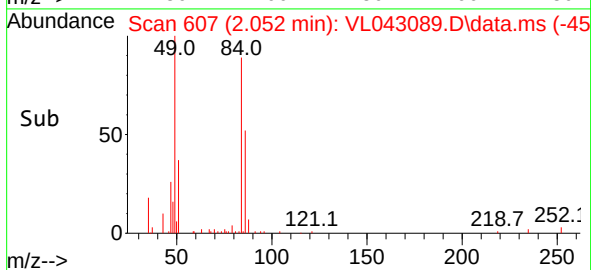
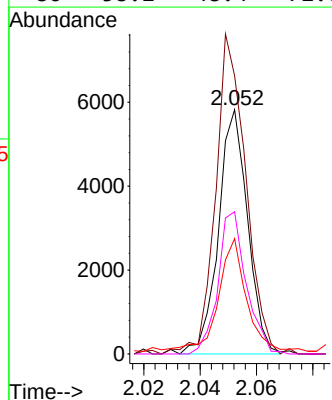
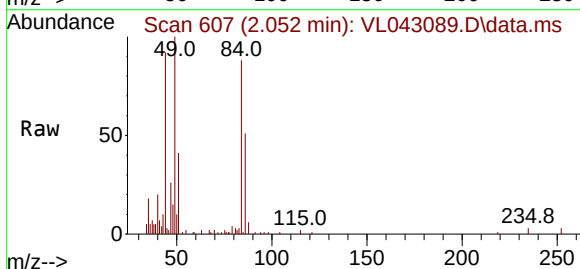
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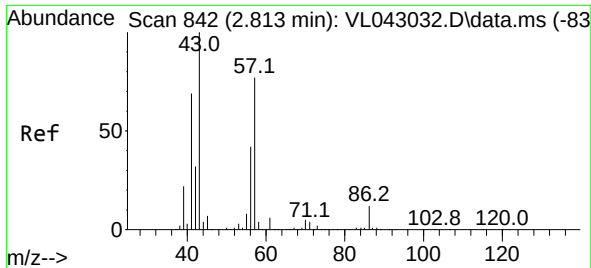
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#20
Methylene Chloride
Concen: 0.358 ppbv
RT: 2.052 min Scan# 607
Delta R.T. -0.000 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

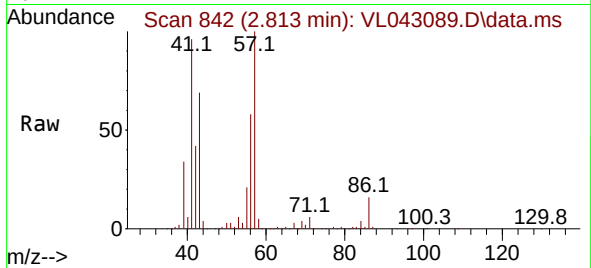
Tgt Ion: 84 Resp: 4187
Ion Ratio Lower Upper
84 100
49 113.9 112.5 168.7
51 44.5 34.2 51.2
86 58.2 48.4 72.6





#26
Hexane
Concen: 2.821 ppbv
RT: 2.813 min Scan# 842
Delta R.T. -0.000 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

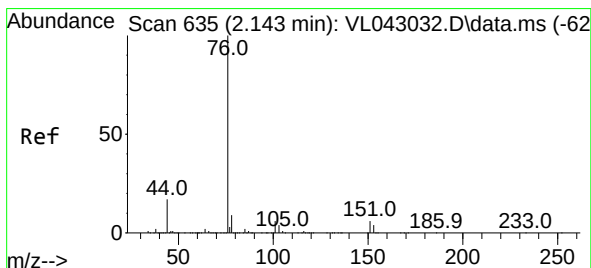
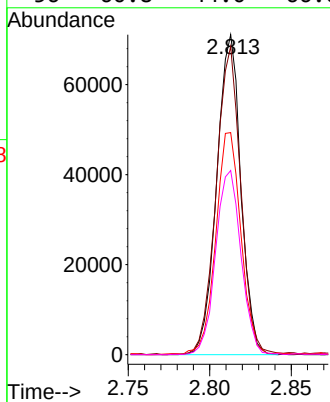
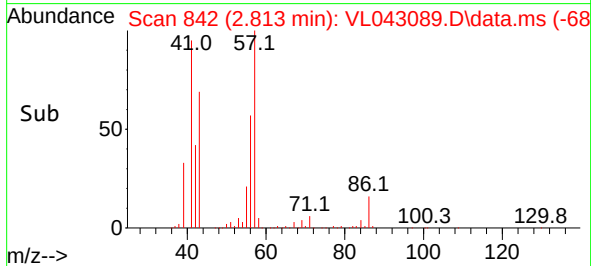
Instrument : MSVOA_L
ClientSampleId : SV1



Tgt Ion: 57 Resp: 73032
Ion Ratio Lower Upper
57 100
41 99.7 76.1 114.1
43 73.7 201.4 302.0
56 60.8 44.0 66.0

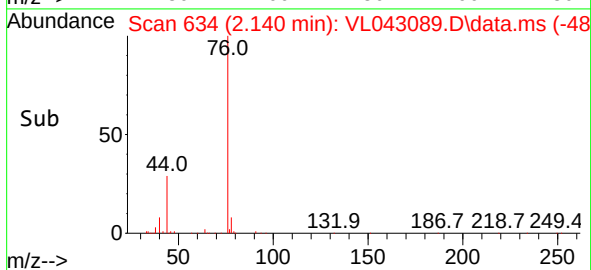
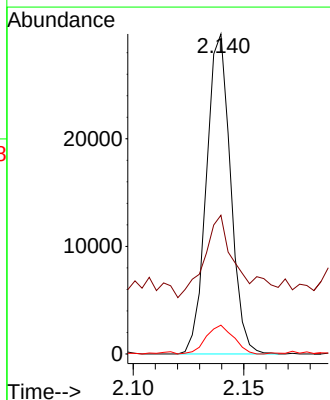
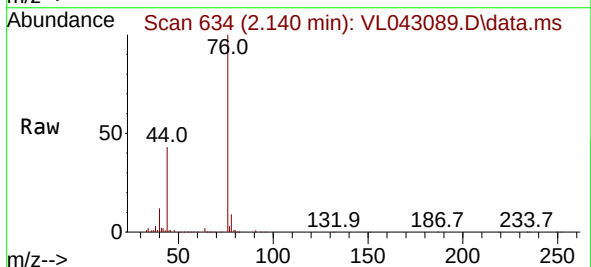
Manual Integrations
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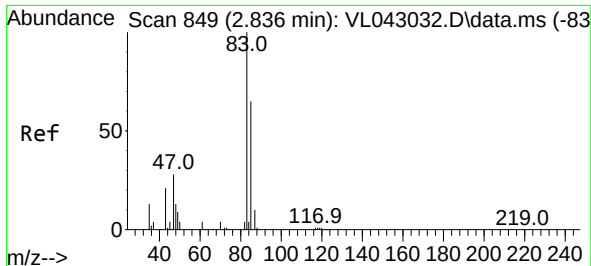
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#27
Carbon Disulfide
Concen: 0.735 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.003 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

Tgt Ion: 76 Resp: 22478
Ion Ratio Lower Upper
76 100
44 70.0 14.0 21.0#
78 10.9 9.4 14.0





#29

Chloroform

Concen: 0.548 ppbv

RT: 2.832 min Scan# 84

Delta R.T. -0.003 min

Lab File: VL043089.D

Acq: 09 Oct 2025 15:31

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 83 Resp: 24200

Ion Ratio Lower Upper

83 100

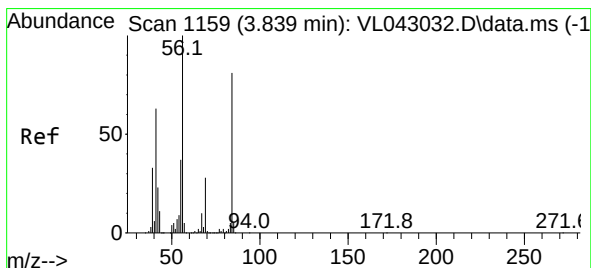
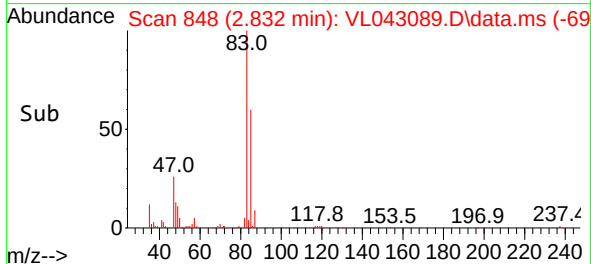
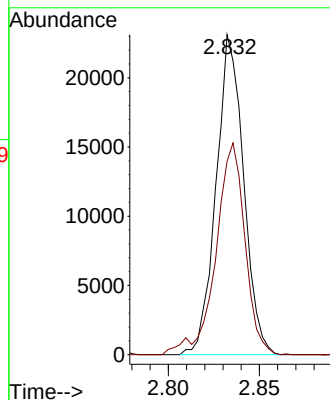
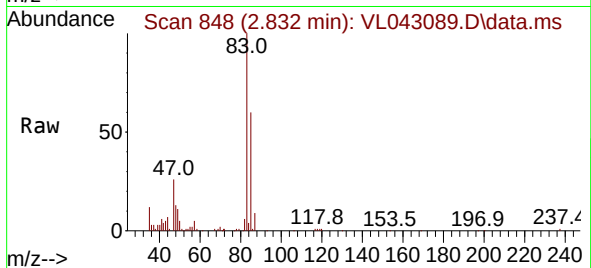
85 60.5 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025

Supervised By :Mahesh Dadoda 10/10/2025



#30

Cyclohexane

Concen: 0.111 ppbv m

RT: 3.839 min Scan# 1159

Delta R.T. -0.000 min

Lab File: VL043089.D

Acq: 09 Oct 2025 15:31

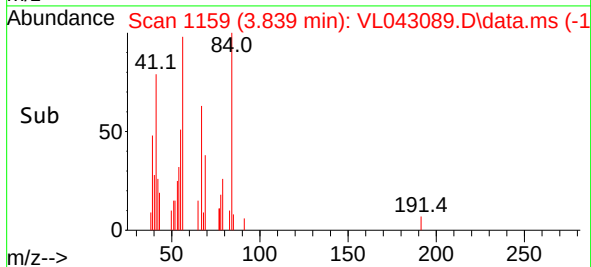
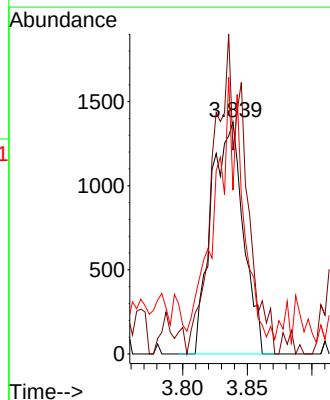
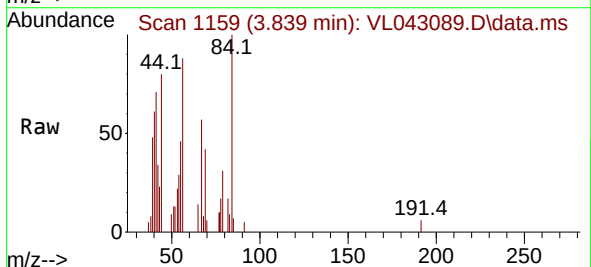
Tgt Ion: 84 Resp: 2369

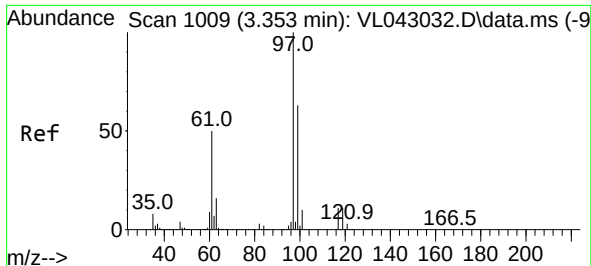
Ion Ratio Lower Upper

84 100

56 147.3 99.9 149.9

41 111.2 64.2 96.4#





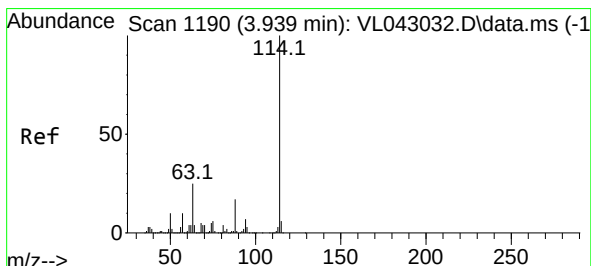
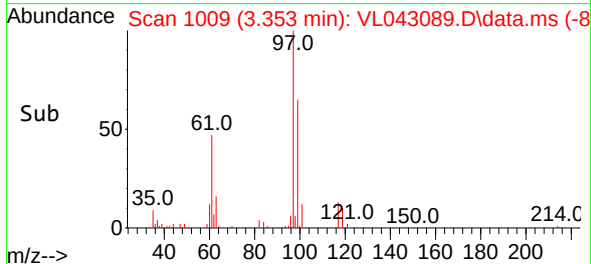
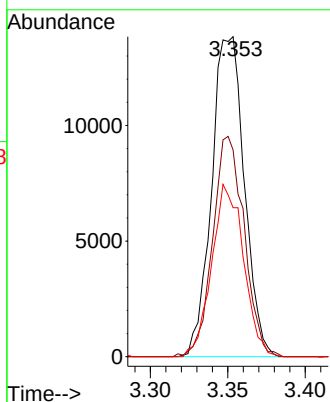
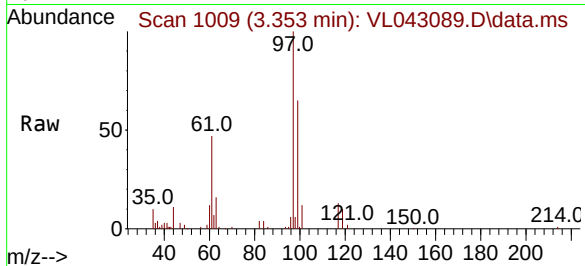
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1,1,1-Trichloroethane
Concen: 0.474 ppbv
RT: 3.353 min Scan# 1009
Delta R.T. -0.000 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 97 Resp: 2034
Ion Ratio Lower Upper
97 100
99 66.1 51.2 76.8
61 52.3 40.1 60.1

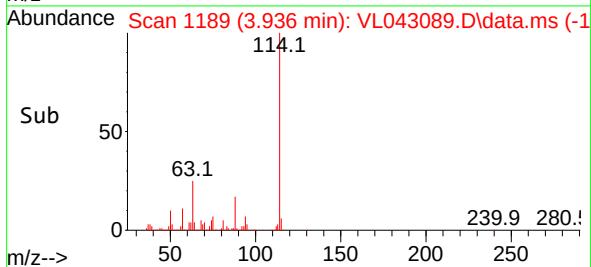
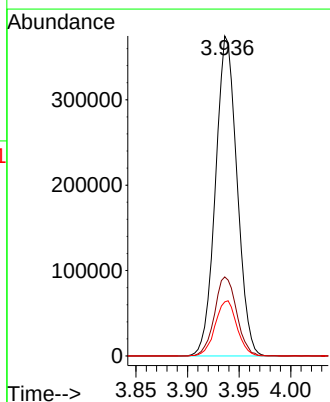
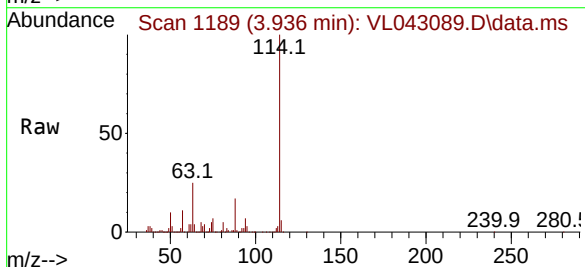
Manual Integrations
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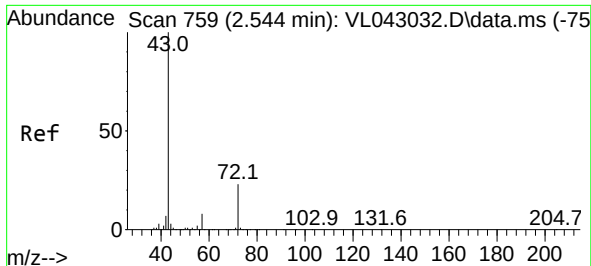
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.936 min Scan# 1189
Delta R.T. -0.003 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

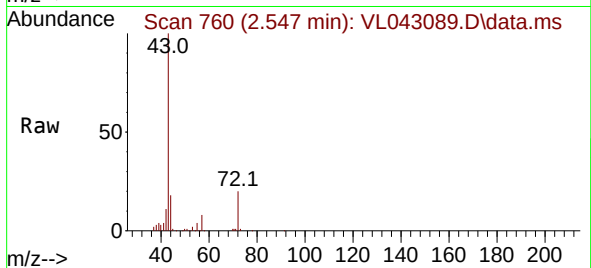
Tgt Ion:114 Resp: 543620
Ion Ratio Lower Upper
114 100
63 25.5 19.4 29.2
88 17.5 13.9 20.9





#34
2-Butanone
Concen: 0.502 ppbv
RT: 2.547 min Scan# 759
Delta R.T. 0.003 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

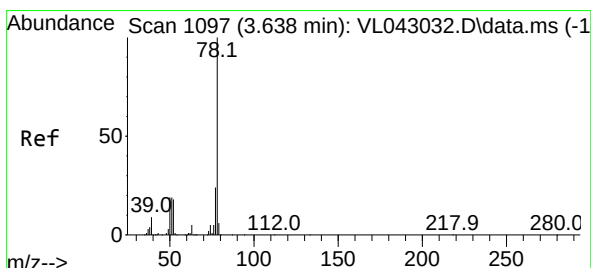
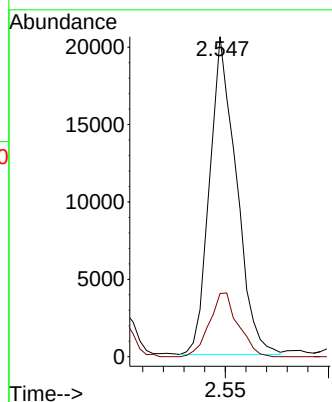
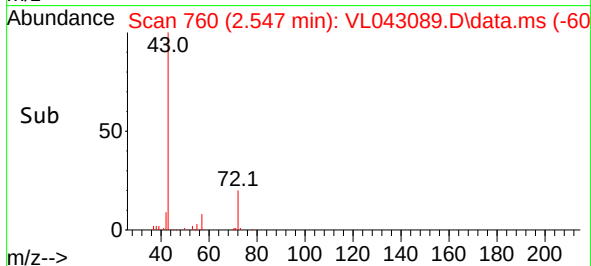
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 1850
Ion Ratio Lower Upper
43 100
72 21.5 18.4 27.6

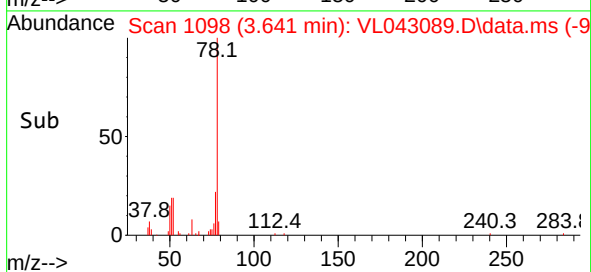
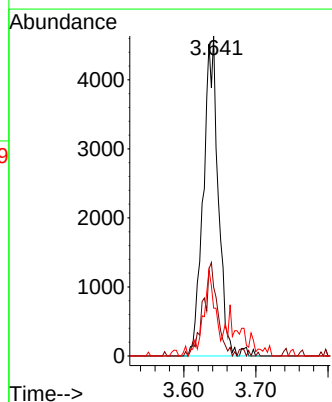
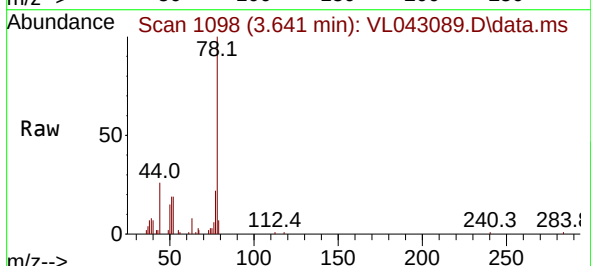
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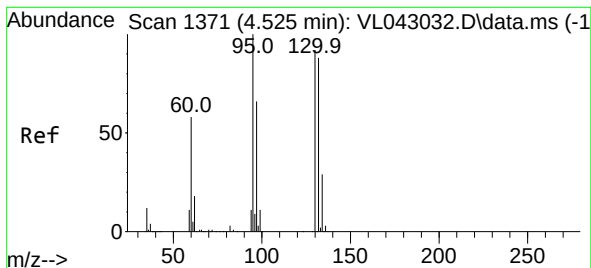
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#36
Benzene
Concen: 0.129 ppbv m
RT: 3.641 min Scan# 1098
Delta R.T. 0.003 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

Tgt Ion: 78 Resp: 6683
Ion Ratio Lower Upper
78 100
77 21.5 19.2 28.8
50 15.0 14.9 22.3





#38

Trichloroethene

Concen: 144.359 ppbv

RT: 4.525 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL043089.D

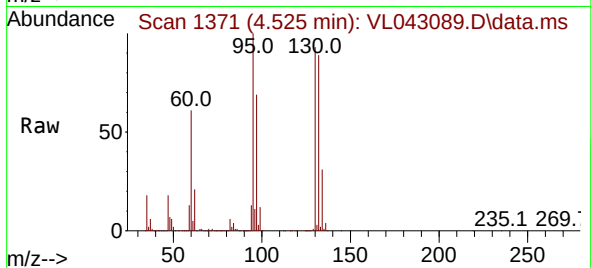
Acq: 09 Oct 2025 15:31

Instrument :

MSVOA_L

ClientSampleId :

SV1



Tgt Ion:130 Resp: 3123349

Ion Ratio Lower Upper

130 100

95 107.4 86.4 129.6

132 95.5 75.7 113.5

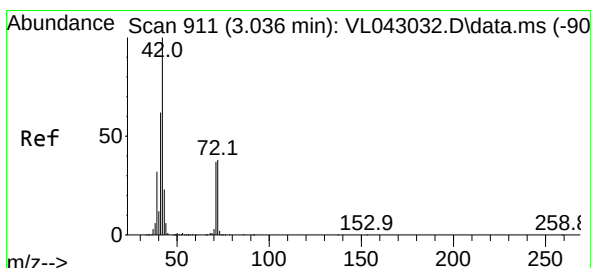
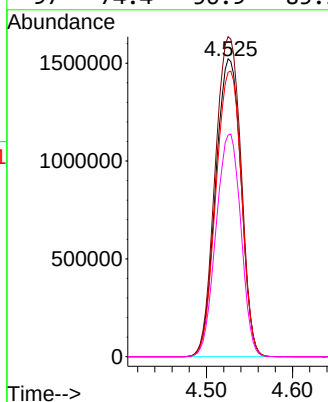
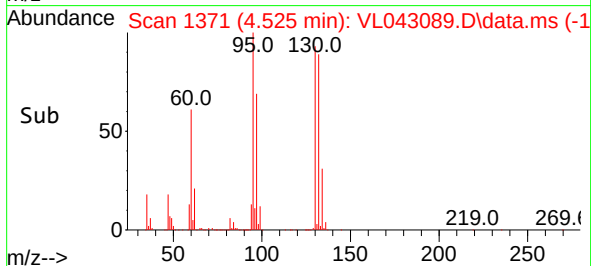
97 74.4 56.9 85.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025

Supervised By :Mahesh Dadoda 10/10/2025



#41

Tetrahydrofuran

Concen: 0.222 ppbv m

RT: 3.049 min Scan# 915

Delta R.T. 0.013 min

Lab File: VL043089.D

Acq: 09 Oct 2025 15:31

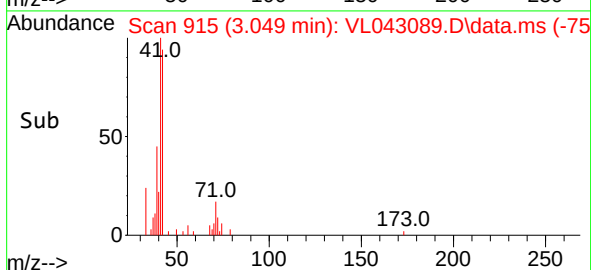
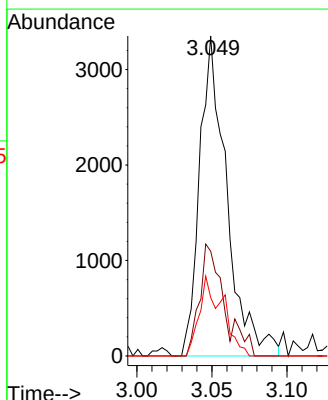
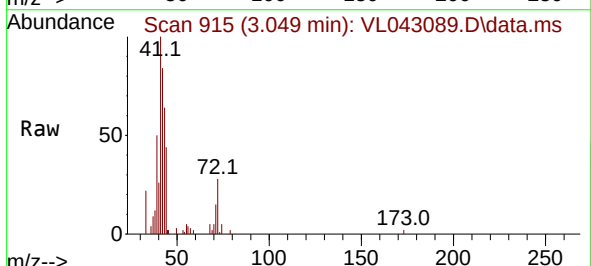
Tgt Ion: 42 Resp: 4223

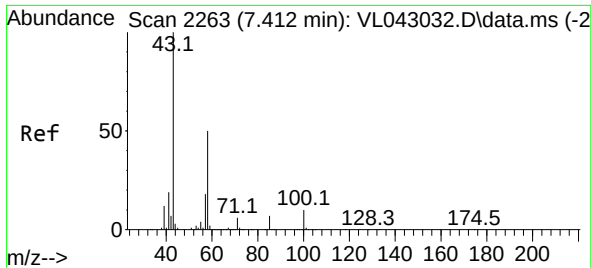
Ion Ratio Lower Upper

42 100

72 0.0 31.0 46.6#

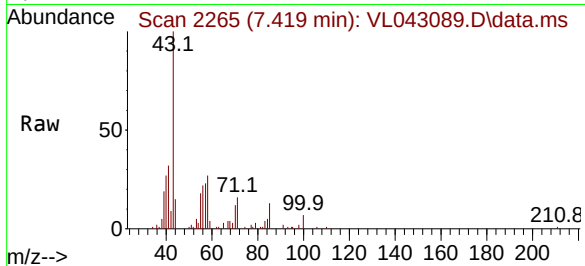
71 0.0 29.8 44.6#





#51
2-Hexanone
Concen: 0.548 ppbv m
RT: 7.419 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

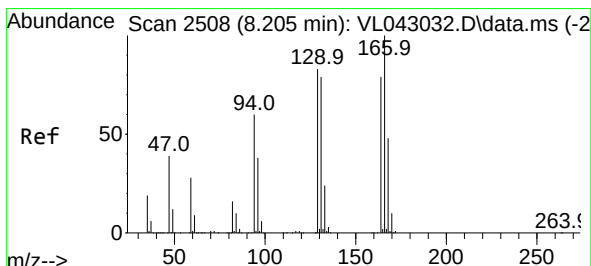
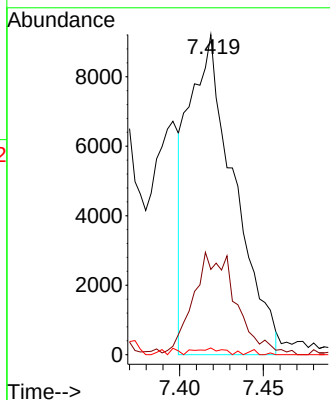
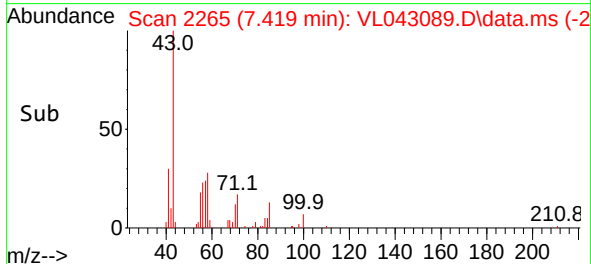
Instrument :
MSVOA_L
ClientSampleId :
SV1



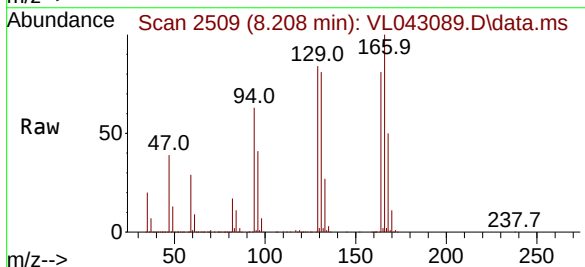
Tgt Ion: 43 Resp: 17534
Ion Ratio Lower Upper
43 100
58 0.0 39.1 58.7
98 0.0 0.5 0.7

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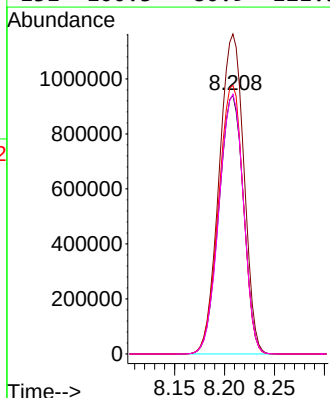
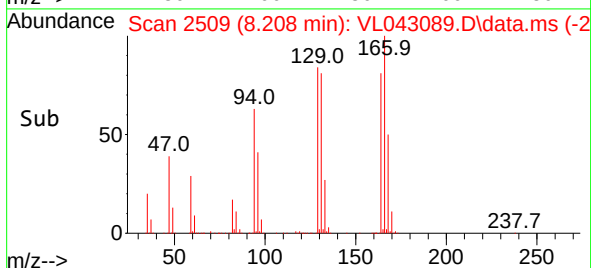
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

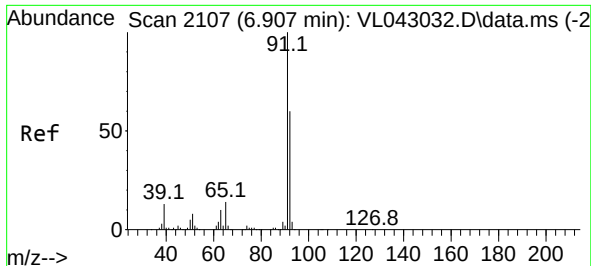


#52
Tetrachloroethene
Concen: 83.752 ppbv
RT: 8.208 min Scan# 2509
Delta R.T. 0.003 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31



Tgt Ion:164 Resp: 1610637
Ion Ratio Lower Upper
164 100
166 123.6 101.8 152.8
129 103.8 84.5 126.7
131 100.3 80.9 121.3





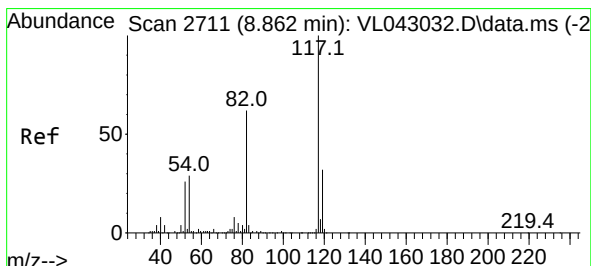
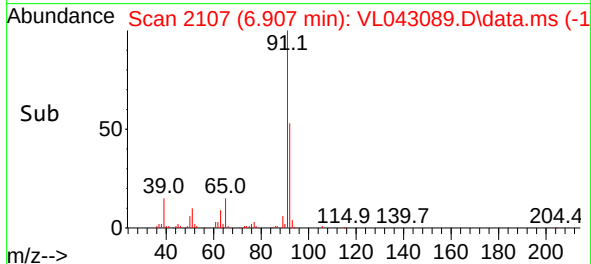
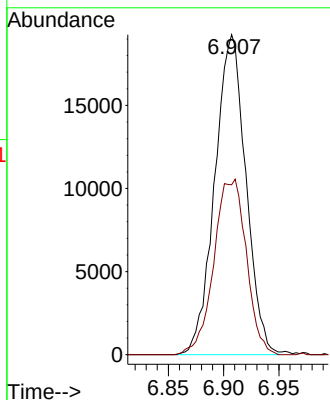
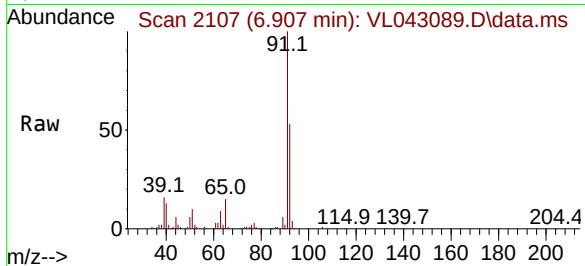
#53
Toluene
Concen: 0.717 ppbv
RT: 6.907 min Scan# 2107
Delta R.T. -0.000 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 37614
Ion Ratio Lower Upper
91 100
92 57.3 47.8 71.6

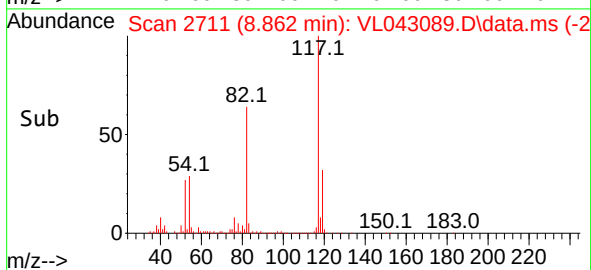
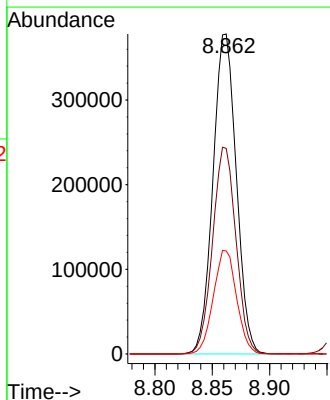
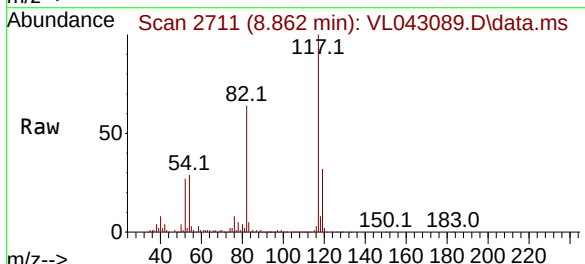
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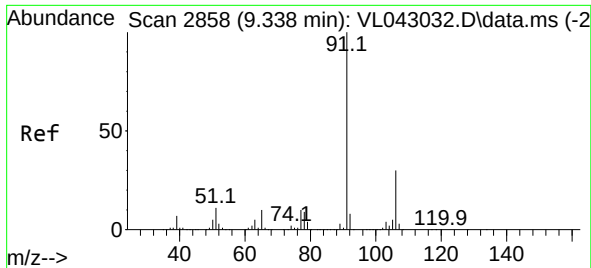
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.862 min Scan# 2711
Delta R.T. -0.000 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

Tgt Ion:117 Resp: 535675
Ion Ratio Lower Upper
117 100
82 64.7 53.0 79.6
119 32.2 25.4 38.2





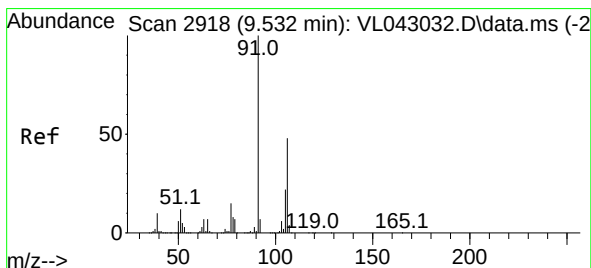
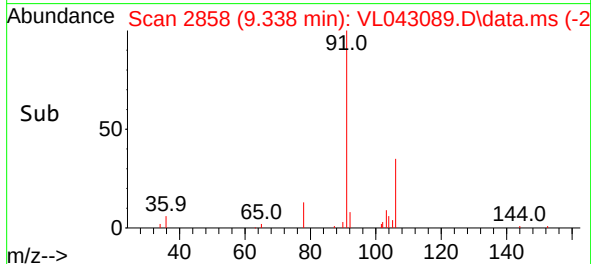
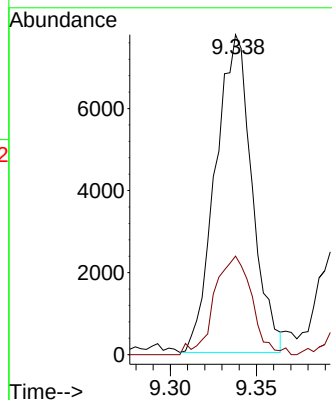
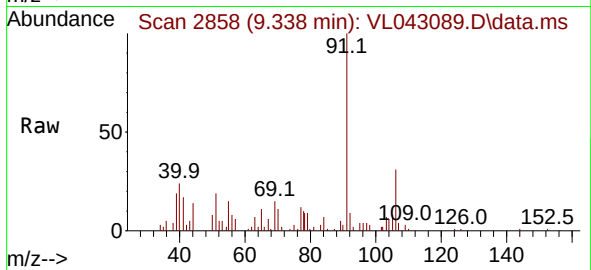
#58
Ethyl Benzene
Concen: 0.138 ppbv
RT: 9.338 min Scan# 211430
Delta R.T. -0.000 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 11430
Ion Ratio Lower Upper
91 100
106 31.0 24.1 36.1

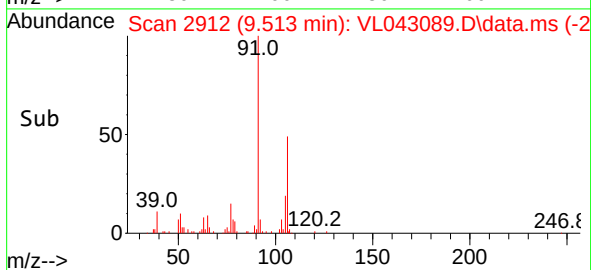
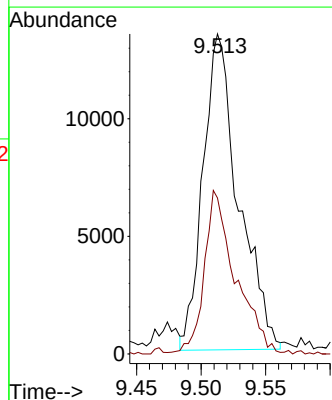
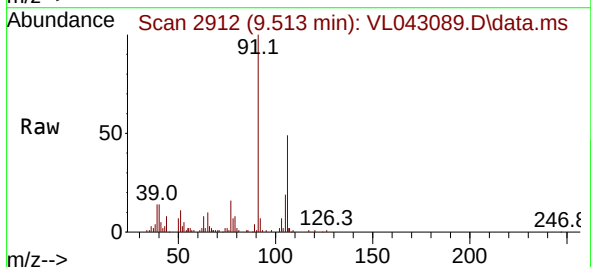
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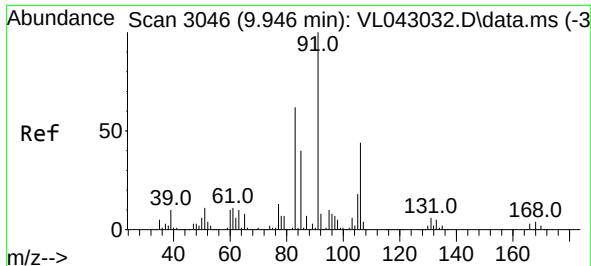
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#59
m/p-Xylene
Concen: 0.368 ppbv
RT: 9.513 min Scan# 2912
Delta R.T. -0.019 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

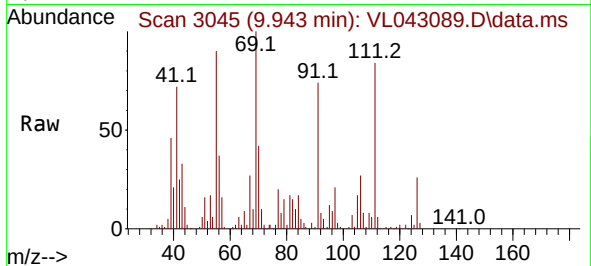
Tgt Ion: 91 Resp: 25768
Ion Ratio Lower Upper
91 100
106 46.4 37.5 56.3





#60
o-Xylene
Concen: 0.246 ppbv
RT: 9.943 min Scan# 3046
Delta R.T. -0.003 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31

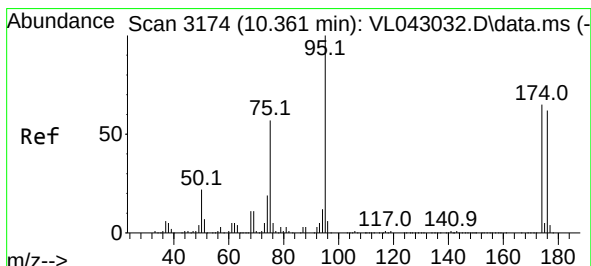
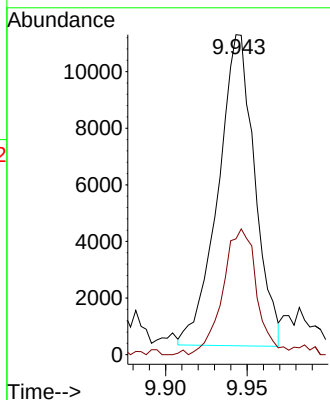
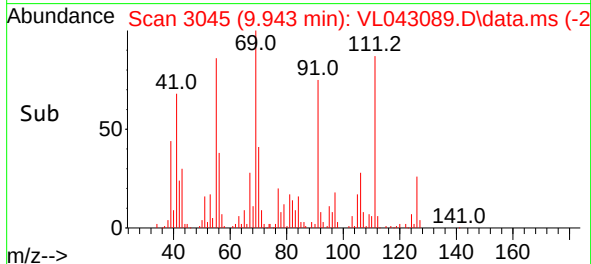
Instrument :
MSVOA_L
ClientSampleId :
SV1



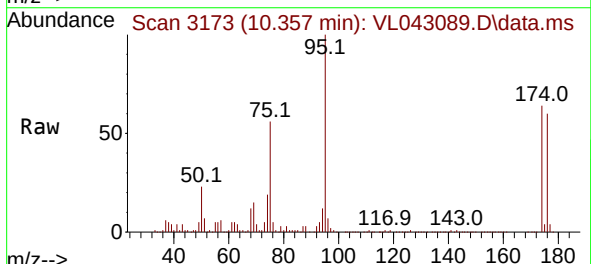
Tgt Ion: 91 Resp: 17164
Ion Ratio Lower Upper
91 100
106 39.0 21.9 65.5

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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 11.101 ppbv
RT: 10.357 min Scan# 3173
Delta R.T. -0.003 min
Lab File: VL043089.D
Acq: 09 Oct 2025 15:31



Tgt Ion: 95 Resp: 428380
Ion Ratio Lower Upper
95 100
174 65.1 52.3 78.5
175 4.6 3.8 5.8

