

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070825\
 Data File : VL042712.D
 Acq On : 08 Jul 2025 14:01
 Operator : SY/MD
 Sample : Q2518-02DUP 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/09/2025
 Supervised By :Mahesh Dadoda 07/09/2025

Quant Time: Jul 09 01:29:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:50:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	119988	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	299588	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	285045	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 219323 10.003 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
3) Chlorodifluoromethane	1.476	51	9877	0.526	ppbv	97
9) Propene	1.486	41	14151	2.013	ppbv	95
10) Heptane	4.991	43	11055m	0.579	ppbv	
13) Ethanol	1.726	45	5689	8.388	ppbv #	37
15) Acetone	1.839	43	93719	7.875	ppbv #	86
20) Methylene Chloride	2.066	84	1798	0.395	ppbv	90
26) Hexane	2.833	57	52640	3.505	ppbv #	40
27) Carbon Disulfide	2.153	76	4934	0.403	ppbv #	1
29) Chloroform	2.855	83	2607	0.115	ppbv	85
30) Cyclohexane	3.872	84	1158m	0.102	ppbv	
34) 2-Butanone	2.561	43	322391	13.596	ppbv	100
36) Benzene	3.661	78	10765m	0.357	ppbv	
38) Trichloroethene	4.561	130	6781	0.520	ppbv	93
51) 2-Hexanone	7.451	43	29023	1.437	ppbv #	78
52) Tetrachloroethene	8.235	164	108059	10.707	ppbv	95
53) Toluene	6.946	91	17701	0.628	ppbv	99
58) Ethyl Benzene	9.361	91	4962m	0.120	ppbv	
59) m/p-Xylene	9.539	91	16354m	0.474	ppbv	
60) o-Xylene	9.973	91	8198m	0.241	ppbv	
74) 1,2,4-Trimethylbenzene	11.542	105	10299	0.258	ppbv #	67

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

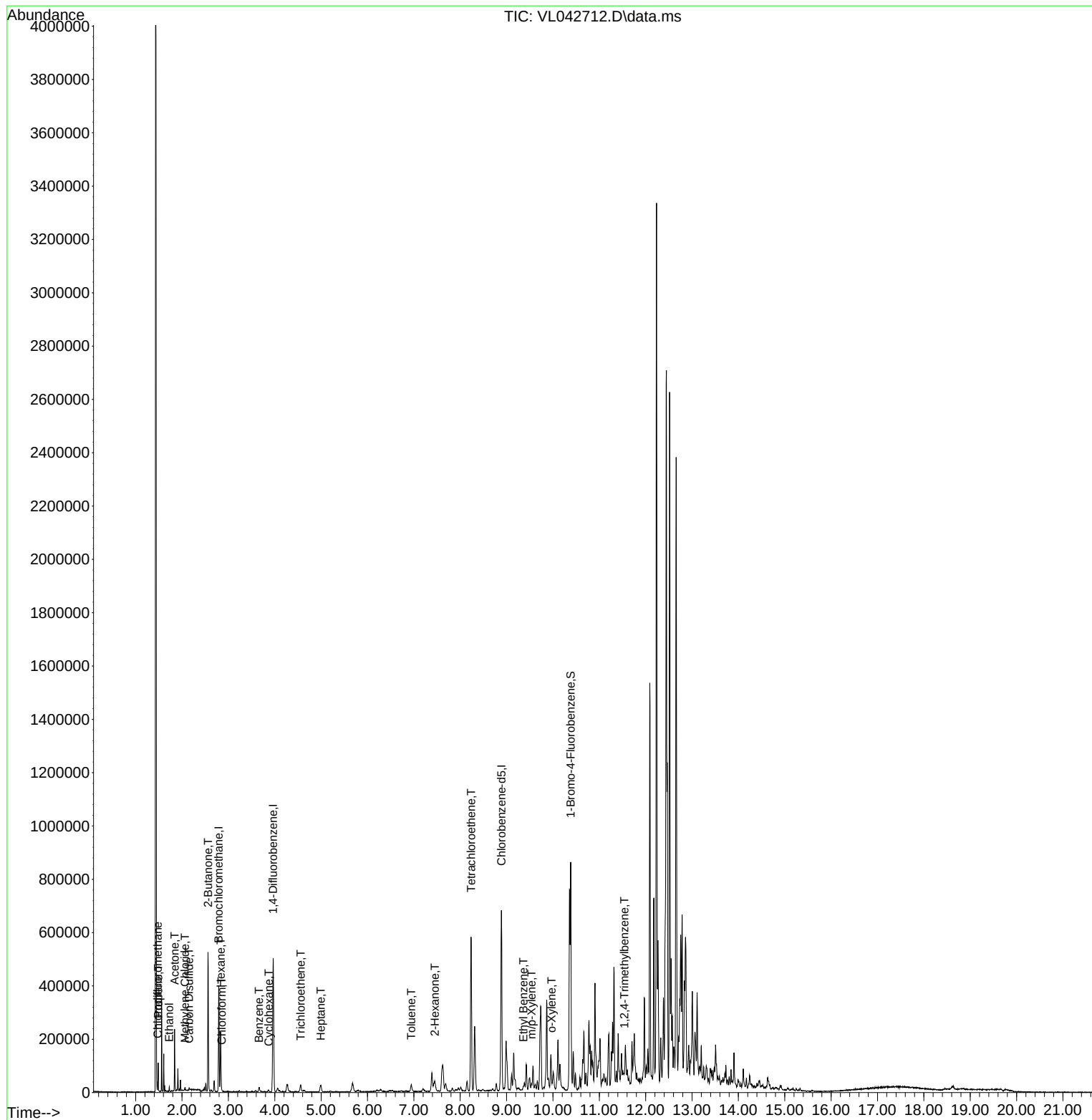
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070825\
Data File : VL042712.D
Acq On : 08 Jul 2025 14:01
Operator : SY/MD
Sample : Q2518-02DUP 10X
Misc : 400mL/MSVOA_L
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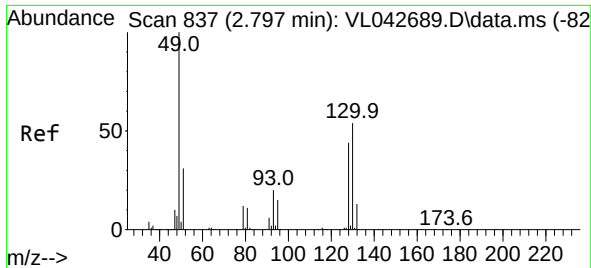
Instrument :
MSVOA_L
ClientSampleId :
SV2DUP

Quant Time: Jul 09 01:29:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 07/09/2025
Supervised By : Mahesh Dadoda 07/09/2025





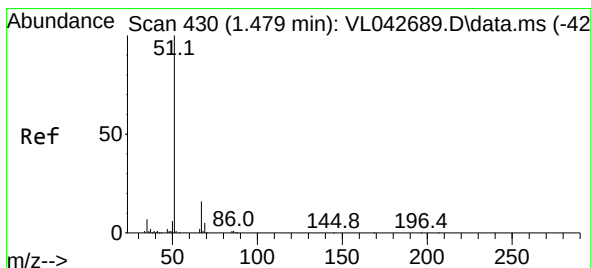
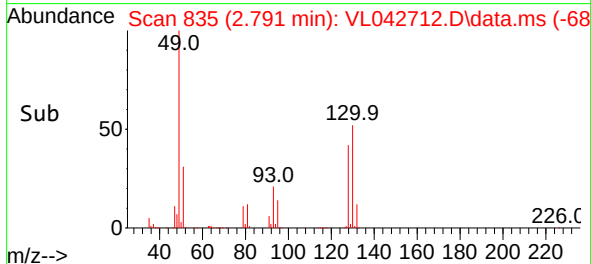
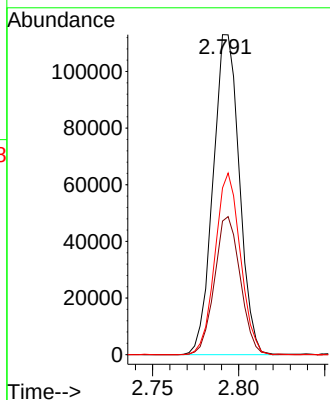
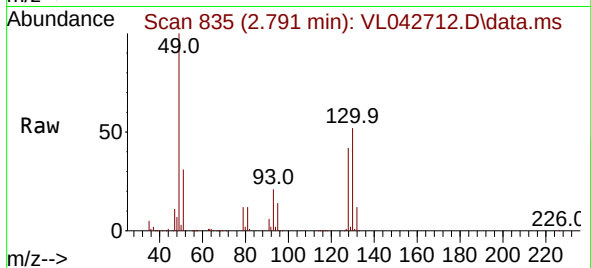
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

Instrument :
MSVOA_L
ClientSampleId :
SV2DUP

Tgt Ion: 49 Resp: 11998
Ion Ratio Lower Upper
49 100
128 42.3 21.4 64.2
130 55.0 28.0 84.0

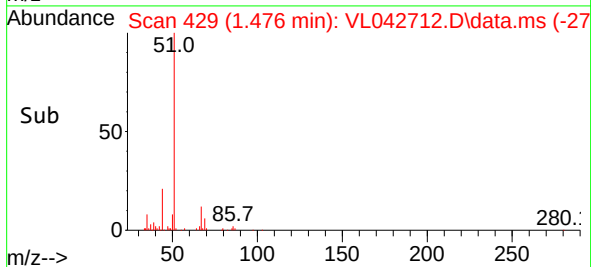
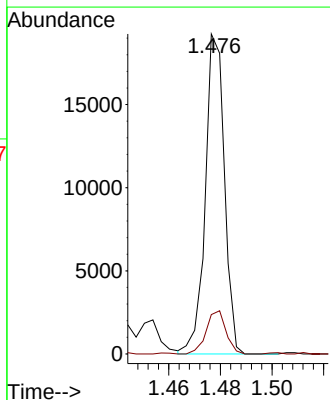
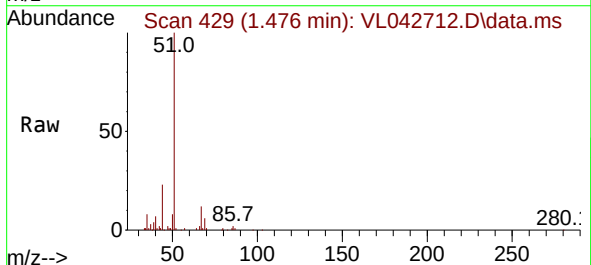
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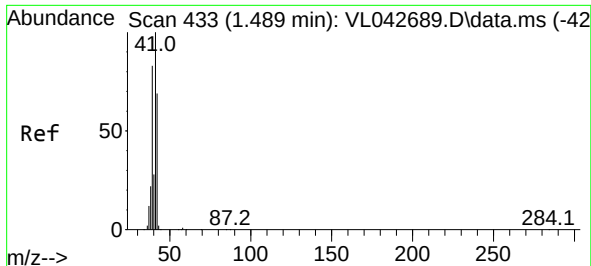
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#3
Chlorodifluoromethane
Concen: 0.526 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

Tgt Ion: 51 Resp: 9877
Ion Ratio Lower Upper
51 100
67 15.1 13.1 19.7





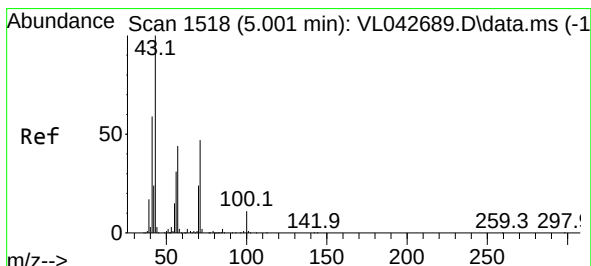
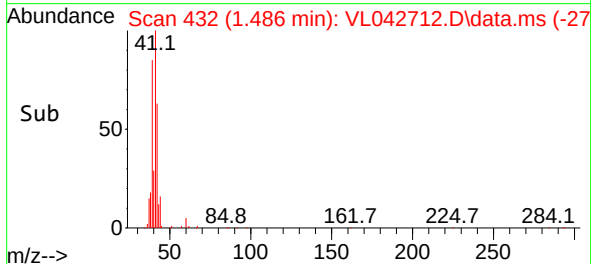
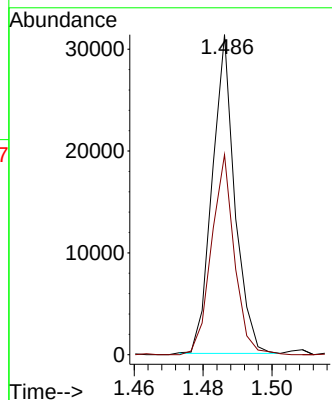
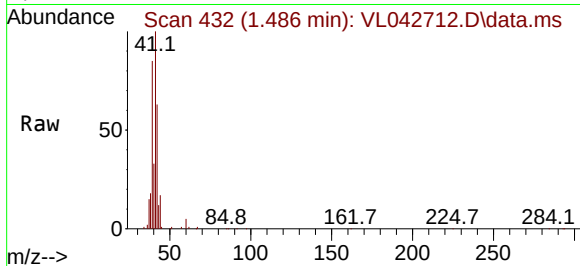
#9
 Propene
 Concen: 2.013 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042712.D
 Acq: 08 Jul 2025 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DUP

Tgt Ion: 41 Resp: 1415
 Ion Ratio Lower Upper
 41 100
 42 65.1 55.6 83.4

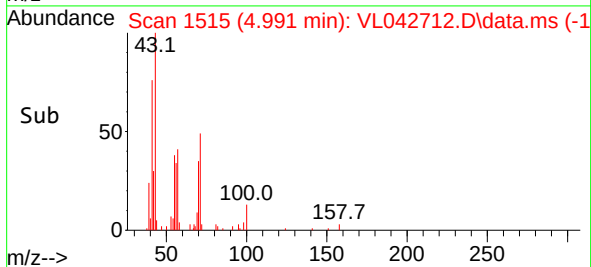
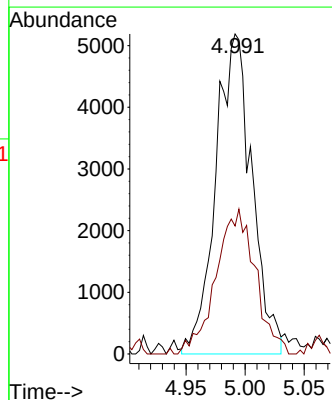
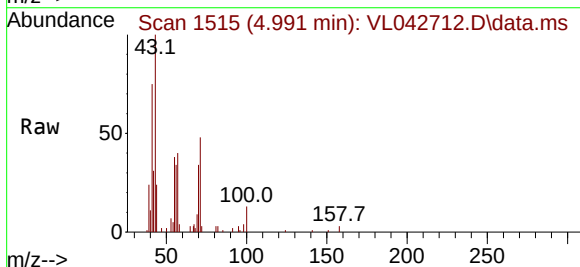
Manual Integrations
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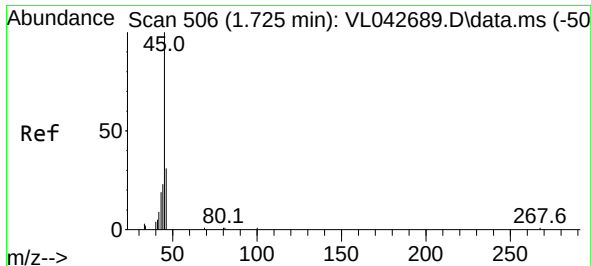
Reviewed By :Semsettin Yesilyurt 07/09/2025
 Supervised By :Mahesh Dadoda 07/09/2025



#10
 Heptane
 Concen: 0.579 ppbv m
 RT: 4.991 min Scan# 1515
 Delta R.T. -0.009 min
 Lab File: VL042712.D
 Acq: 08 Jul 2025 14:01

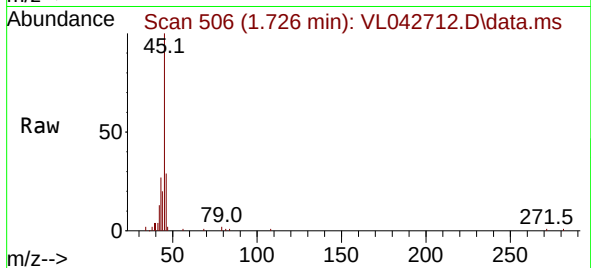
Tgt Ion: 43 Resp: 11055
 Ion Ratio Lower Upper
 43 100
 57 49.2 37.4 56.0





#13
Ethanol
Concen: 8.388 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.000 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

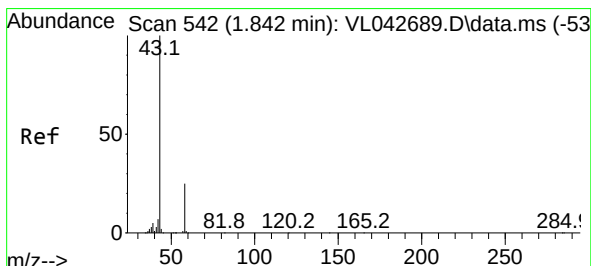
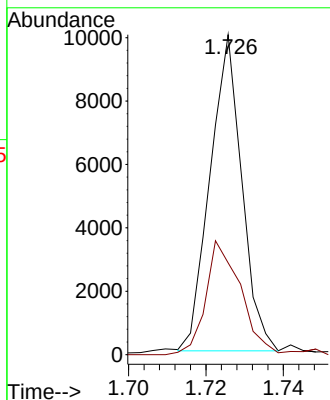
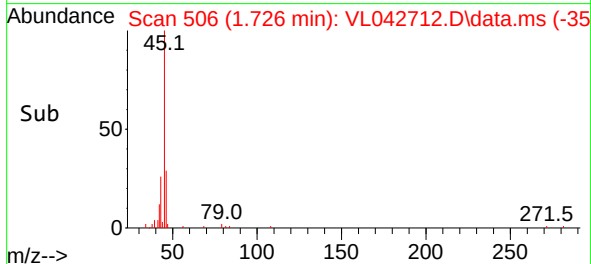
Instrument :
MSVOA_L
ClientSampleId :
SV2DUP



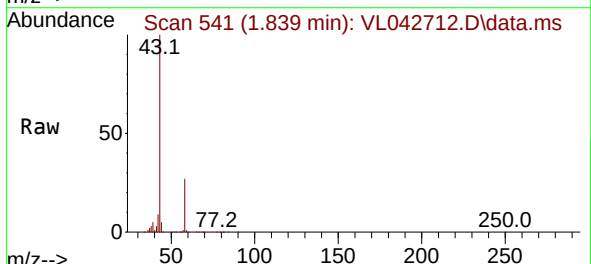
Tgt Ion: 45 Resp: 5689
Ion Ratio Lower Upper
45 100
46 0.0 15.2 60.8

Manual Integrations
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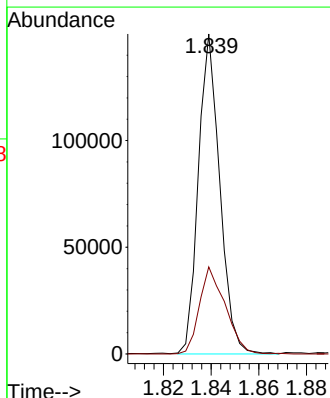
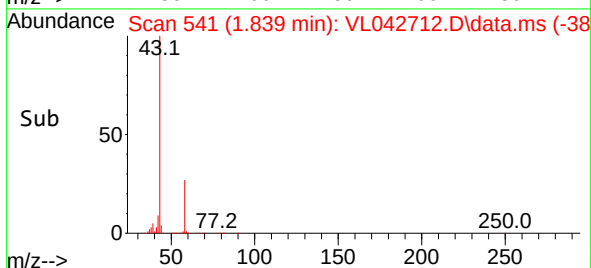
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025

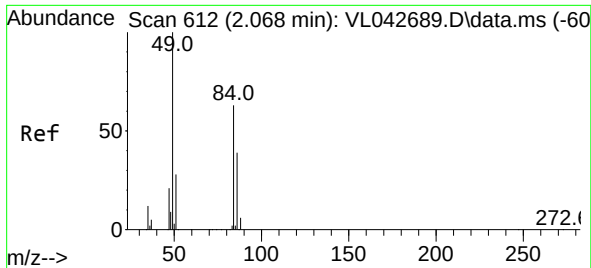


#15
Acetone
Concen: 7.875 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01



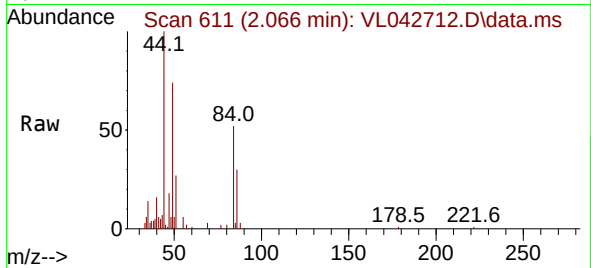
Tgt Ion: 43 Resp: 93719
Ion Ratio Lower Upper
43 100
58 32.8 20.6 31.0





#20
Methylene Chloride
Concen: 0.395 ppbv
RT: 2.066 min Scan# 612
Delta R.T. -0.003 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

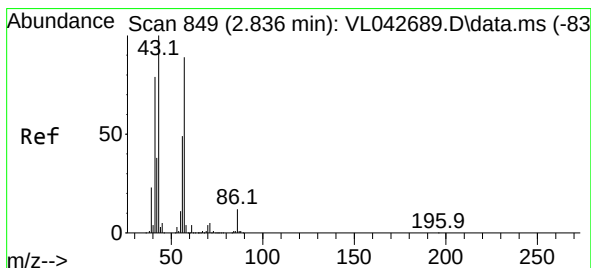
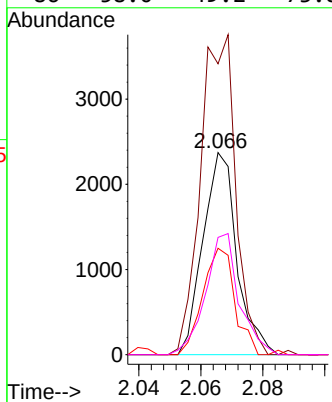
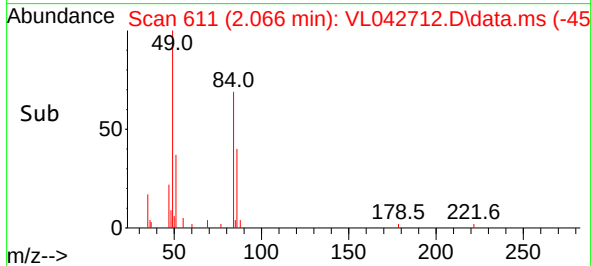
Instrument :
MSVOA_L
ClientSampleId :
SV2DUP



Tgt Ion: 84 Resp: 1798
Ion Ratio Lower Upper
84 100
49 144.0 128.6 193.0
51 52.7 37.4 56.2
86 58.0 49.2 73.8

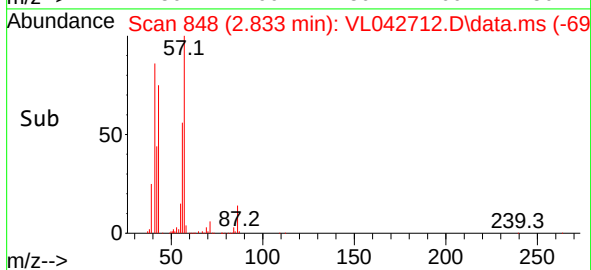
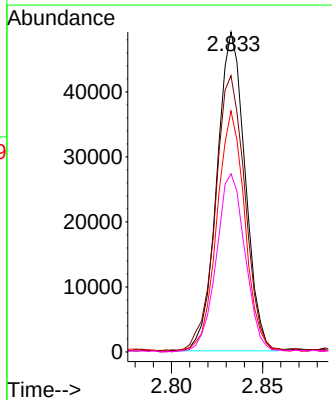
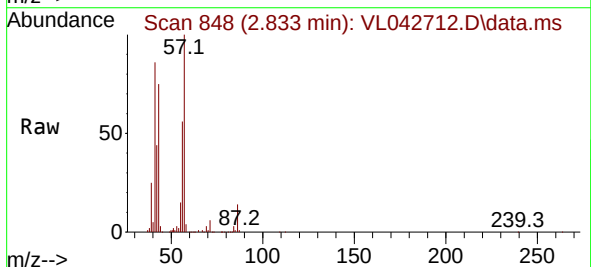
Manual Integrations
APPROVED

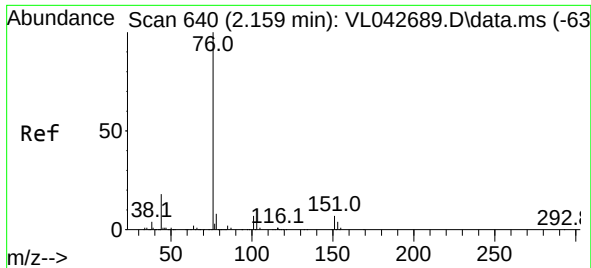
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#26
Hexane
Concen: 3.505 ppbv
RT: 2.833 min Scan# 848
Delta R.T. -0.003 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

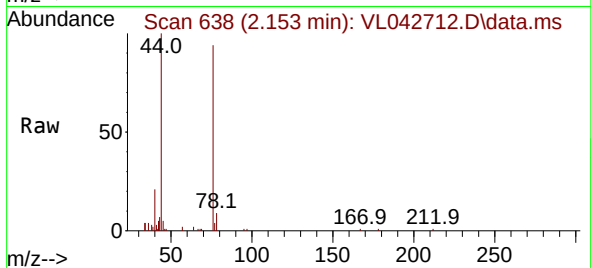
Tgt Ion: 57 Resp: 52640
Ion Ratio Lower Upper
57 100
41 91.3 73.7 110.5
43 74.1 190.6 285.8#
56 57.8 44.8 67.2





#27
Carbon Disulfide
Concen: 0.403 ppbv
RT: 2.153 min Scan# 61
Delta R.T. -0.006 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

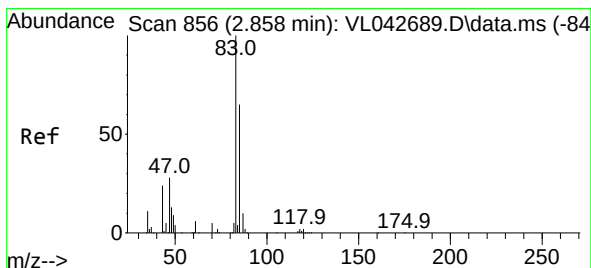
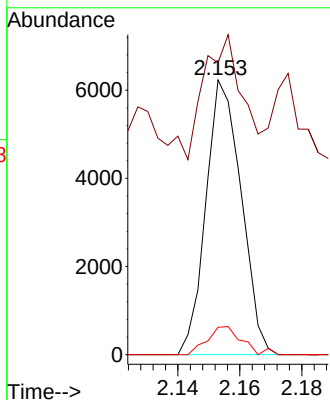
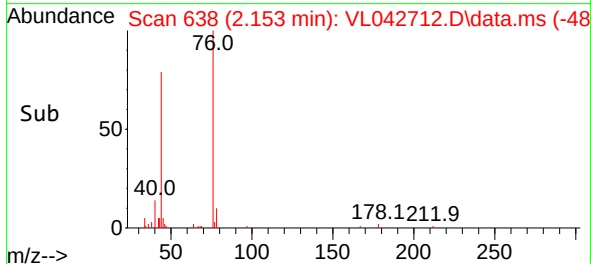
Instrument :
MSVOA_L
ClientSampleId :
SV2DUP



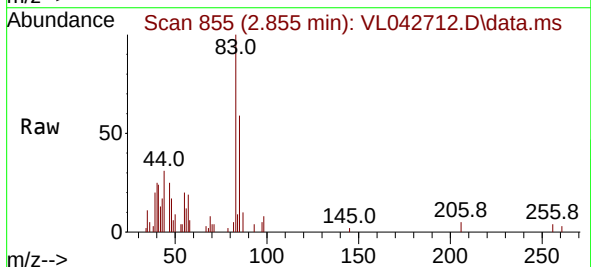
Tgt Ion: 76 Resp: 4934
Ion Ratio Lower Upper
76 100
44 446.0 15.6 23.4
78 10.1 9.2 13.8

Manual Integrations
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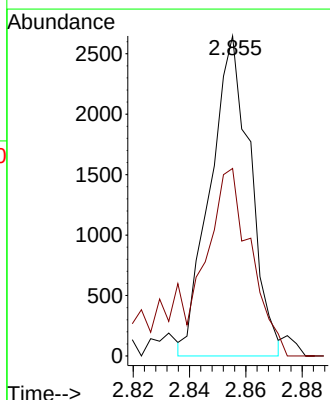
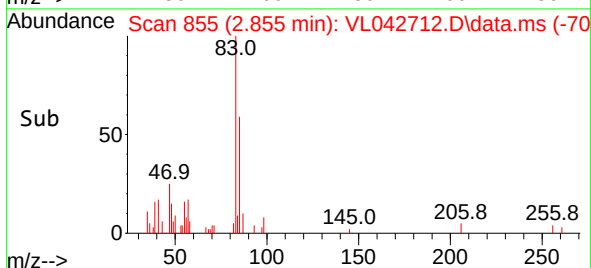
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025

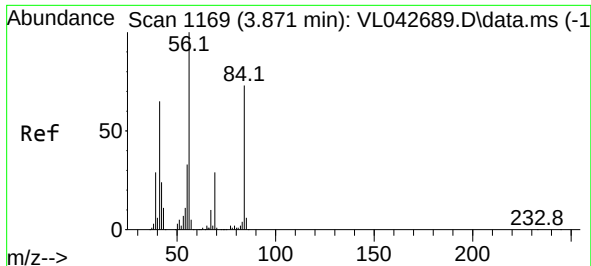


#29
Chloroform
Concen: 0.115 ppbv
RT: 2.855 min Scan# 855
Delta R.T. -0.003 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01



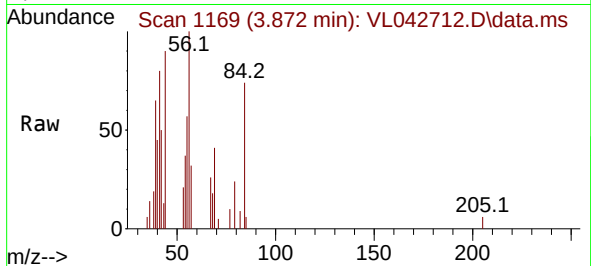
Tgt Ion: 83 Resp: 2607
Ion Ratio Lower Upper
83 100
85 53.9 52.4 78.6





#30
Cyclohexane
Concen: 0.102 ppbv m
RT: 3.872 min Scan# 1158
Delta R.T. 0.000 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

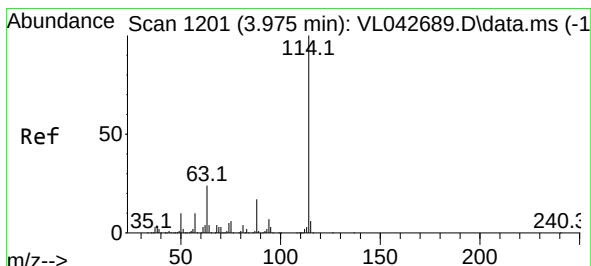
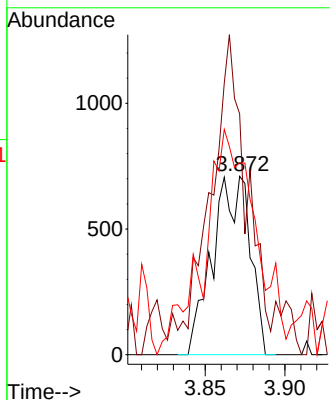
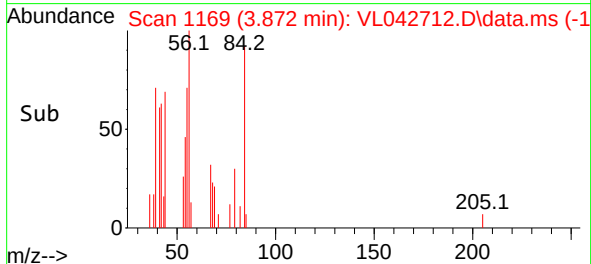
Instrument :
MSVOA_L
ClientSampleId :
SV2DUP



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Ion Ratio Lower Upper
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56 0.0 110.4 165.6
41 0.0 71.4 107.0

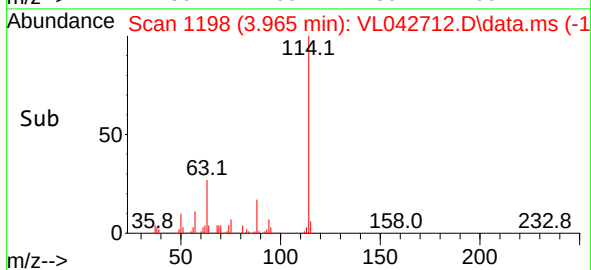
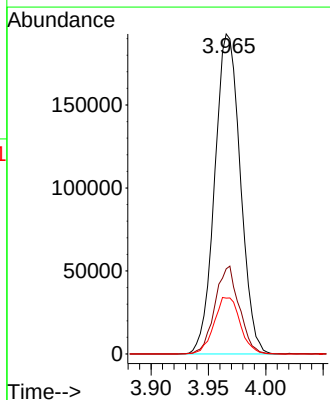
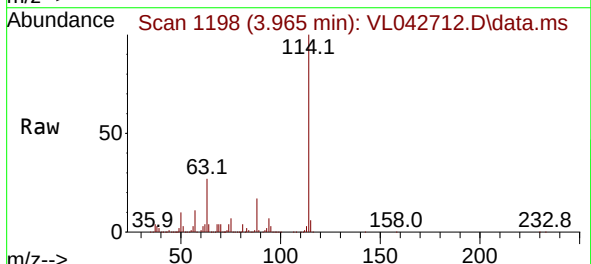
Manual Integrations
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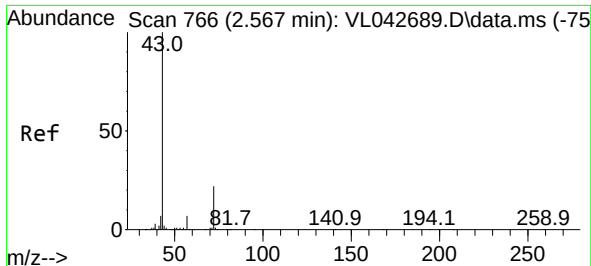
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.009 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

Tgt Ion:114 Resp: 299588
Ion Ratio Lower Upper
114 100
63 26.0 20.4 30.6
88 17.9 14.2 21.2





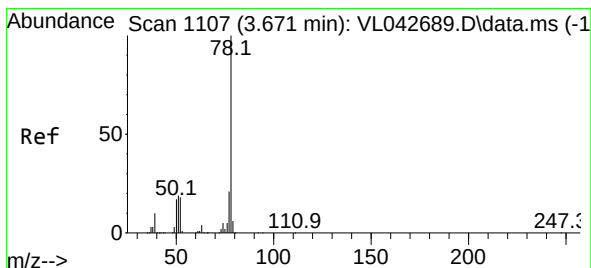
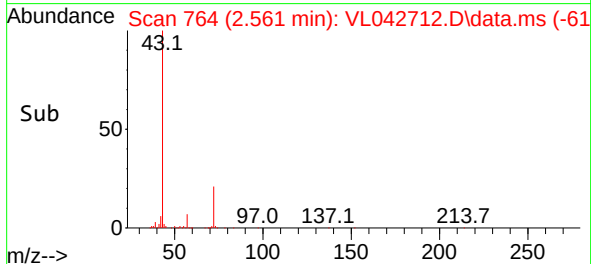
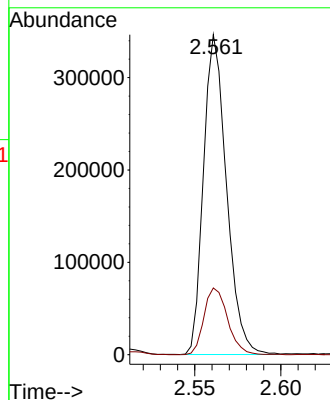
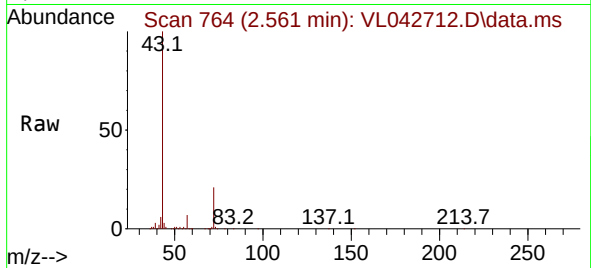
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2-Butanone
Concen: 13.596 ppbv
RT: 2.561 min Scan# 710
Delta R.T. -0.006 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

Instrument :
MSVOA_L
ClientSampleId :
SV2DUP

Tgt Ion: 43 Resp: 32239
Ion Ratio Lower Upper
43 100
72 21.5 17.1 25.7

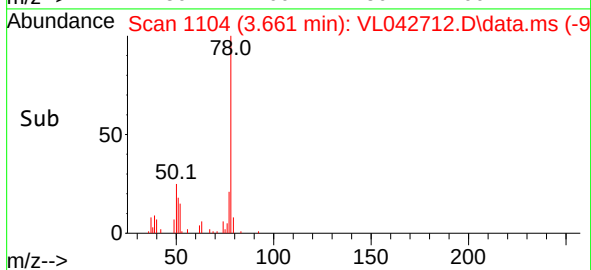
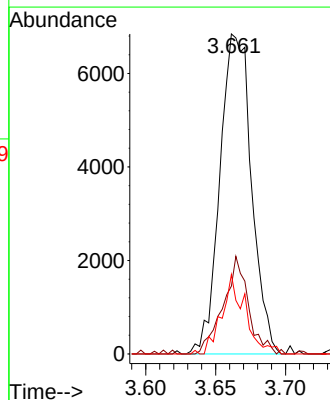
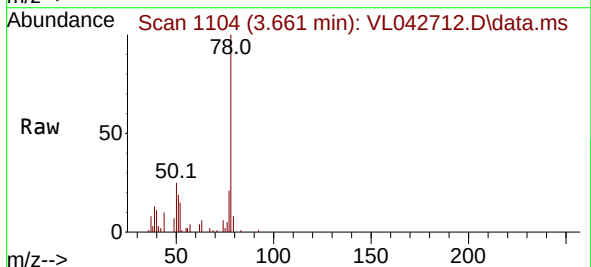
Manual Integrations
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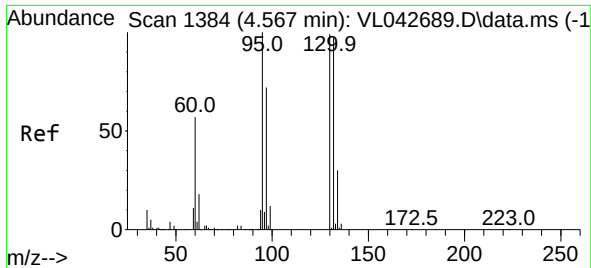
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#36
Benzene
Concen: 0.357 ppbv m
RT: 3.661 min Scan# 1104
Delta R.T. -0.009 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

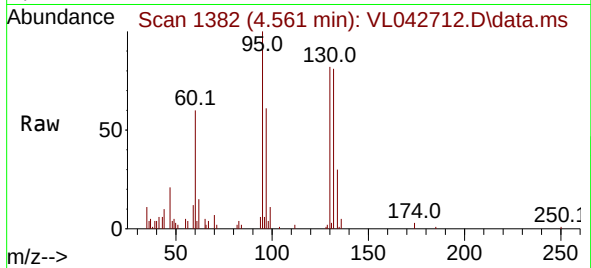
Tgt Ion: 78 Resp: 10765
Ion Ratio Lower Upper
78 100
77 21.2 17.0 25.4
50 24.8 13.7 20.5#





#38
 Trichloroethene
 Concen: 0.520 ppbv
 RT: 4.561 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VL042712.D
 Acq: 08 Jul 2025 14:01

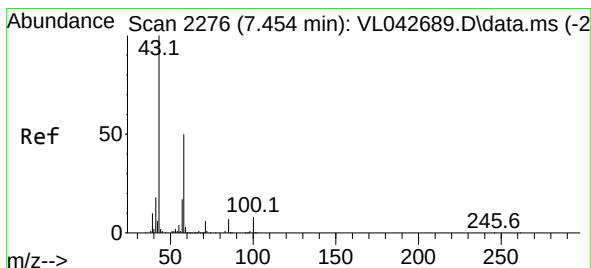
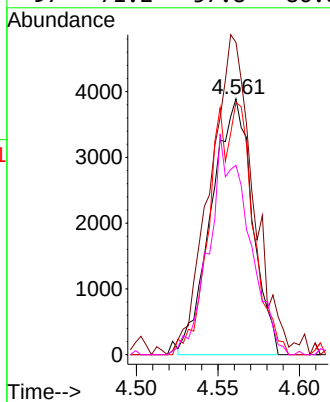
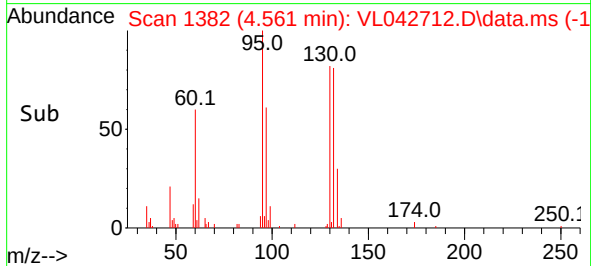
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DUP



Tgt Ion:130 Resp: 678
 Ion Ratio Lower Upper
 130 100
 95 116.2 81.1 121.7
 132 93.3 77.9 116.9
 97 71.2 57.8 86.8

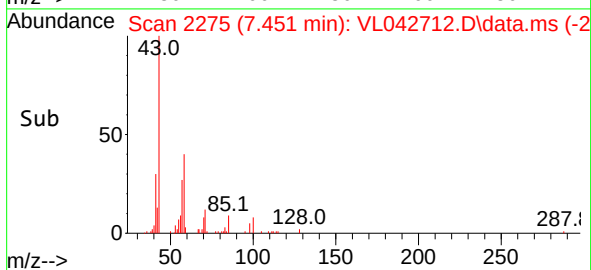
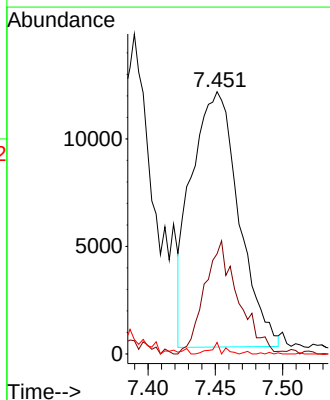
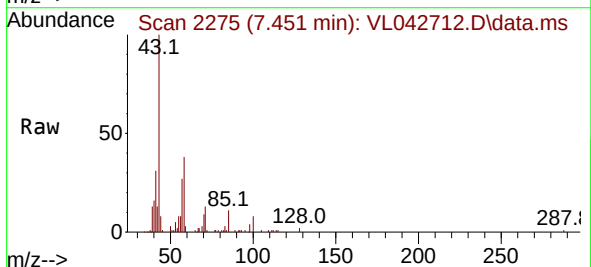
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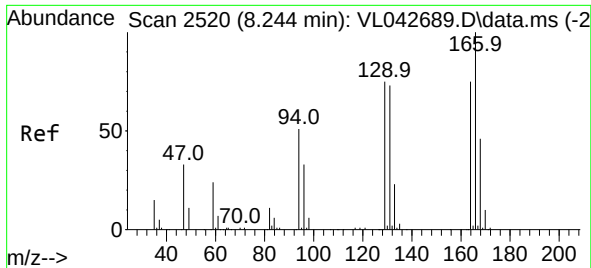
Reviewed By :Semsettin Yesilyurt 07/09/2025
 Supervised By :Mahesh Dadoda 07/09/2025



#51
 2-Hexanone
 Concen: 1.437 ppbv
 RT: 7.451 min Scan# 2275
 Delta R.T. -0.003 min
 Lab File: VL042712.D
 Acq: 08 Jul 2025 14:01

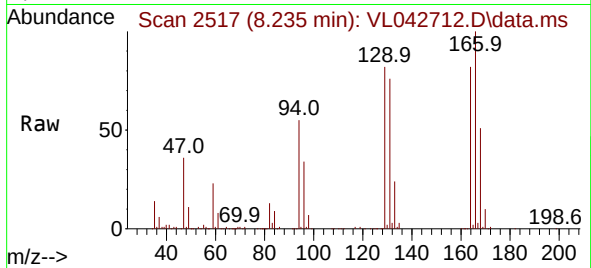
Tgt Ion: 43 Resp: 29023
 Ion Ratio Lower Upper
 43 100
 58 32.8 38.6 57.8#
 98 1.2 0.6 1.0#





#52
Tetrachloroethene
Concen: 10.707 ppbv
RT: 8.235 min Scan# 2119
Delta R.T. -0.009 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

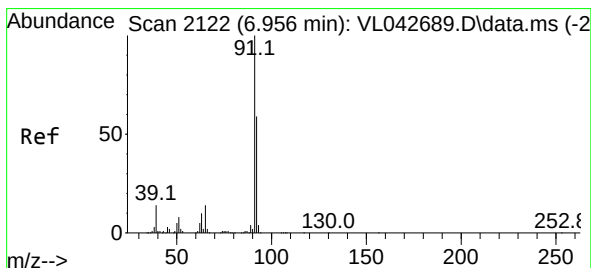
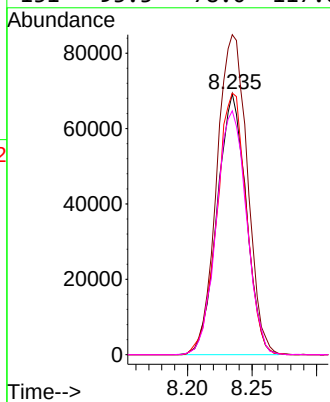
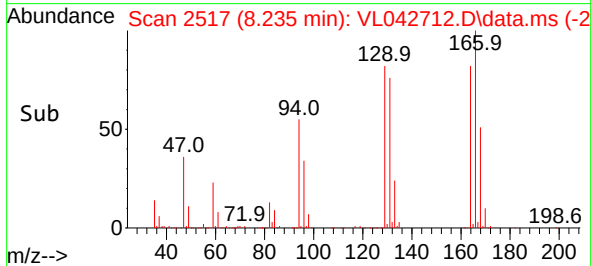
Instrument :
MSVOA_L
ClientSampleId :
SV2DUP



Tgt Ion:164 Resp: 108059
Ion Ratio Lower Upper
164 100
166 122.6 106.6 160.0
129 100.2 79.8 119.6
131 93.3 78.0 117.0

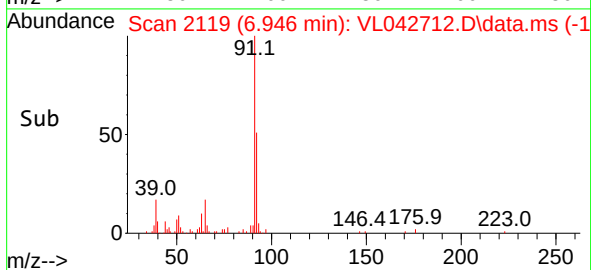
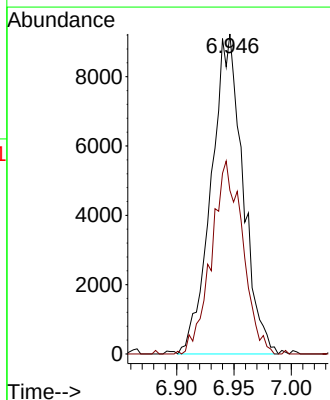
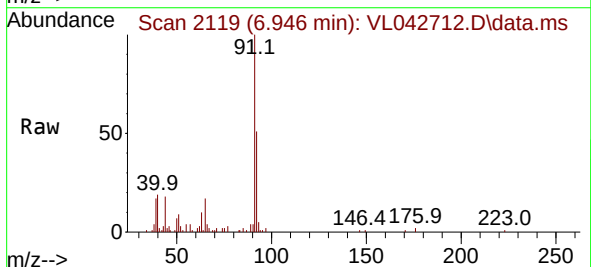
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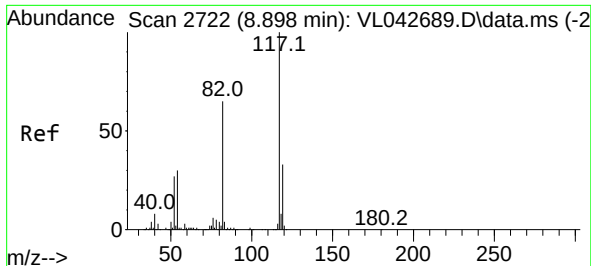
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#53
Toluene
Concen: 0.628 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. -0.009 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

Tgt Ion: 91 Resp: 17701
Ion Ratio Lower Upper
91 100
92 59.8 47.4 71.2





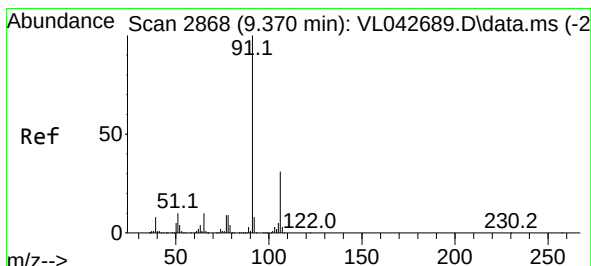
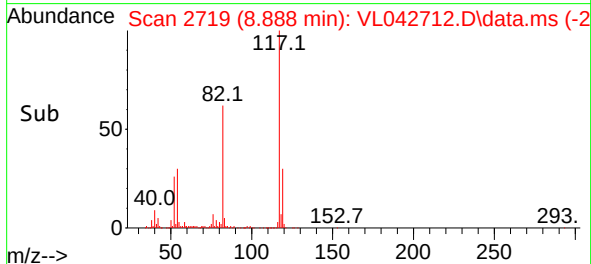
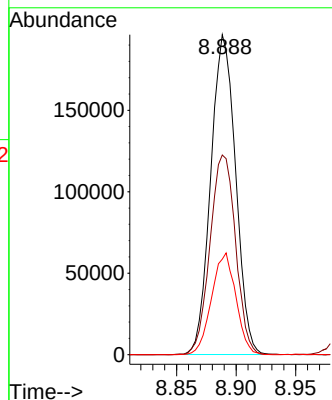
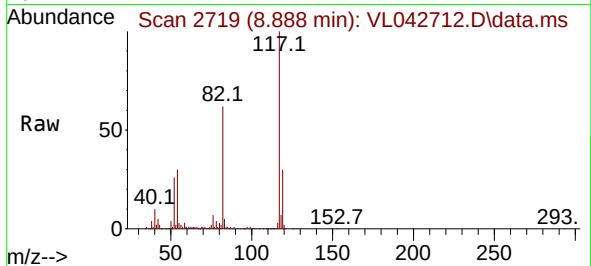
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. -0.009 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

Instrument :
MSVOA_L
ClientSampleId :
SV2DUP

Tgt Ion:117 Resp: 28504
Ion Ratio Lower Upper
117 100
82 64.4 53.4 80.2
119 31.1 26.6 39.8

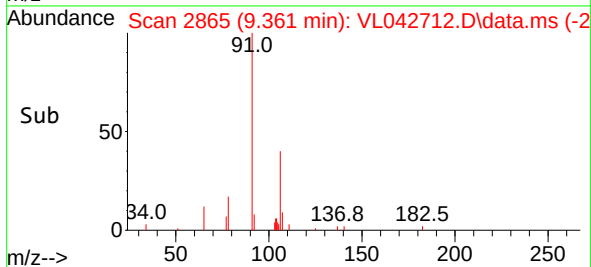
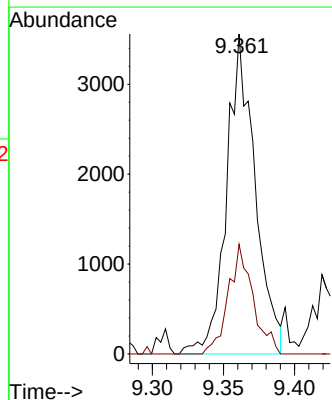
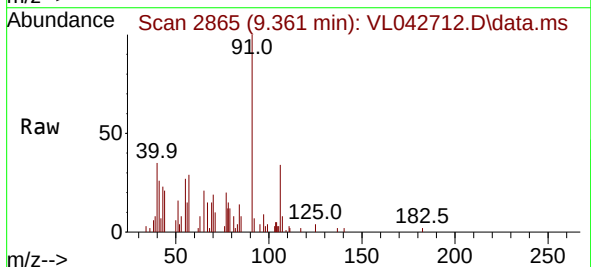
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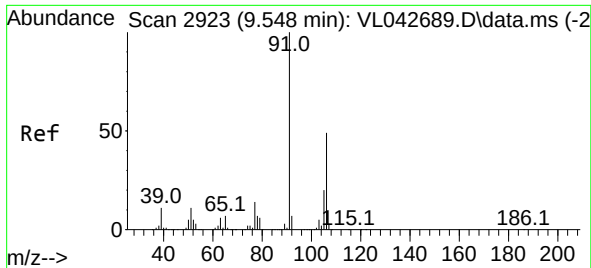
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#58
Ethyl Benzene
Concen: 0.120 ppbv m
RT: 9.361 min Scan# 2865
Delta R.T. -0.009 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

Tgt Ion: 91 Resp: 4962
Ion Ratio Lower Upper
91 100
106 34.3 24.9 37.3





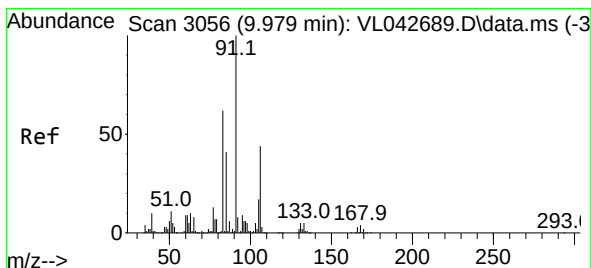
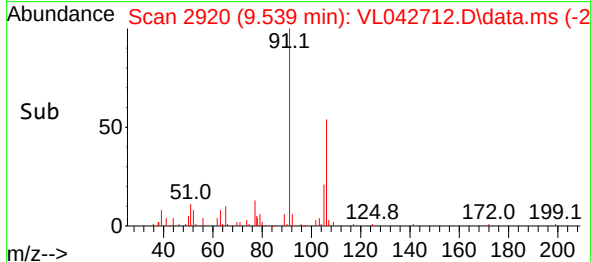
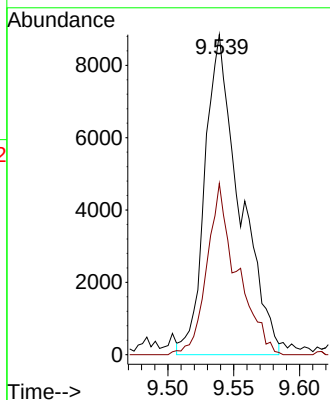
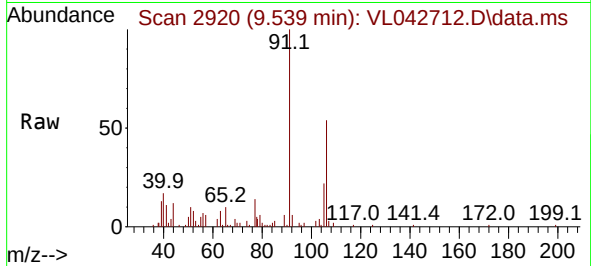
#59
m/p-Xylene
Concen: 0.474 ppbv m
RT: 9.539 min Scan# 2923
Delta R.T. -0.009 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

Instrument :
MSVOA_L
ClientSampleId :
SV2DUP

Tgt Ion: 91 Resp: 16354
Ion Ratio Lower Upper
91 100
106 46.1 37.6 56.4

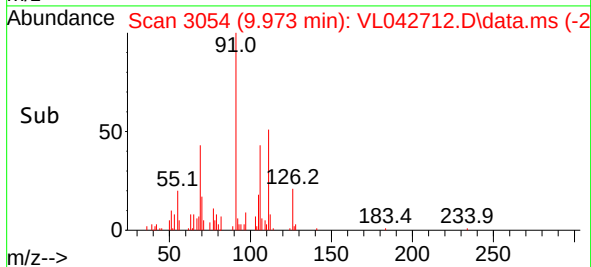
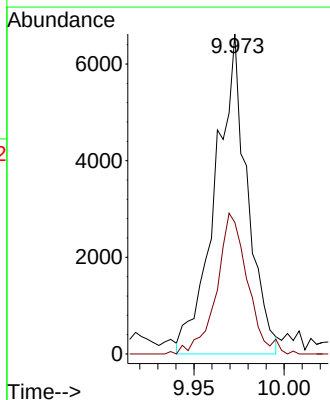
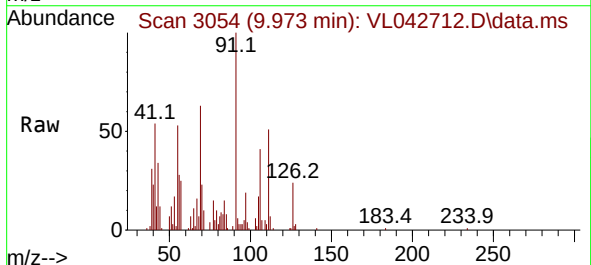
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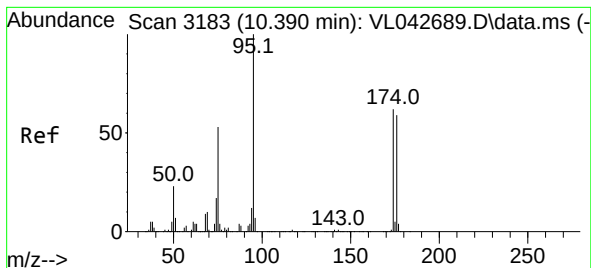
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#60
o-Xylene
Concen: 0.241 ppbv m
RT: 9.973 min Scan# 3054
Delta R.T. -0.006 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

Tgt Ion: 91 Resp: 8198
Ion Ratio Lower Upper
91 100
106 91.9 22.8 68.4#





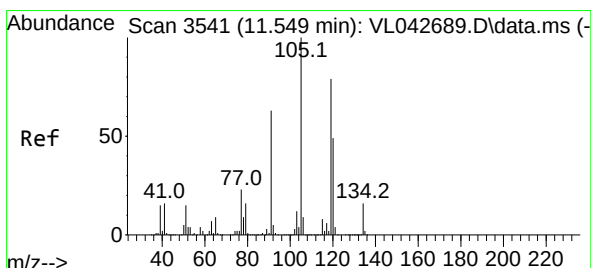
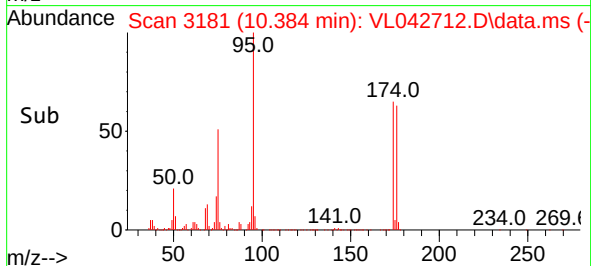
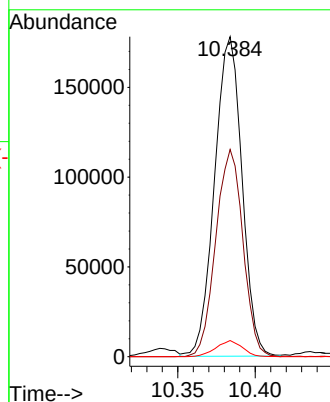
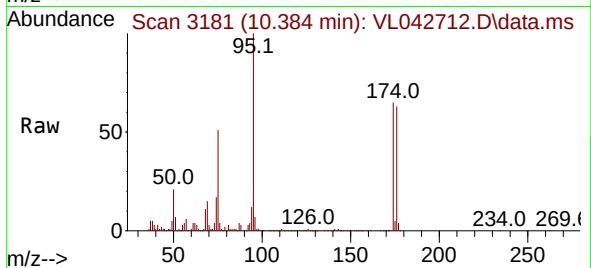
#68
1-Bromo-4-Fluorobenzene
Concen: 10.003 ppbv
RT: 10.384 min Scan# 3183
Delta R.T. -0.006 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

Instrument :
MSVOA_L
ClientSampleId :
SV2DUP

Tgt Ion: 95 Resp: 21932
Ion Ratio Lower Upper
95 100
174 64.2 51.2 76.8
175 4.9 3.8 5.8

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Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.258 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.006 min
Lab File: VL042712.D
Acq: 08 Jul 2025 14:01

Tgt Ion:105 Resp: 10299
Ion Ratio Lower Upper
105 100
120 49.5 39.6 59.4
91 14.4 51.0 76.6#
77 12.4 18.7 28.1#

