

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082625\
 Data File : VL042883.D
 Acq On : 26 Aug 2025 13:42
 Operator : SY/MD
 Sample : Q2943-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/27/2025
 Supervised By :Mahesh Dadoda 08/27/2025

Quant Time: Aug 27 01:11:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 27 01:11:13 2025
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	123837	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	342269	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	292713	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	232578	10.595	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.900%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	2253m	0.260	ppbv	
10) Heptane	4.985	43	2929m	0.126	ppbv	
13) Ethanol	1.722	45	60538	76.420	ppbv	91
15) Acetone	1.839	43	141575m	8.642	ppbv	
17) tert-Butyl alcohol	2.043	59	4272	0.220	ppbv #	71
19) Isopropyl Alcohol	1.887	45	60497	6.183	ppbv #	80
20) Methylene Chloride	2.062	84	1771	0.258	ppbv	90
26) Hexane	2.829	57	10952	0.598	ppbv #	44
29) Chloroform	2.849	83	3846	0.147	ppbv	99
32) 1,1,1-Trichloroethane	3.370	97	1308m	0.047	ppbv	
34) 2-Butanone	2.561	43	4440	0.192	ppbv	99
52) Tetrachloroethene	8.228	164	1120m	0.094	ppbv	
53) Toluene	6.940	91	18030m	0.463	ppbv	
58) Ethyl Benzene	9.361	91	52532	1.017	ppbv	99
59) m/p-Xylene	9.536	91	15268m	0.377	ppbv	
60) o-Xylene	9.966	91	7912	0.194	ppbv	93
61) Styrene	9.872	104	210799	11.047	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	6318	0.137	ppbv #	51

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

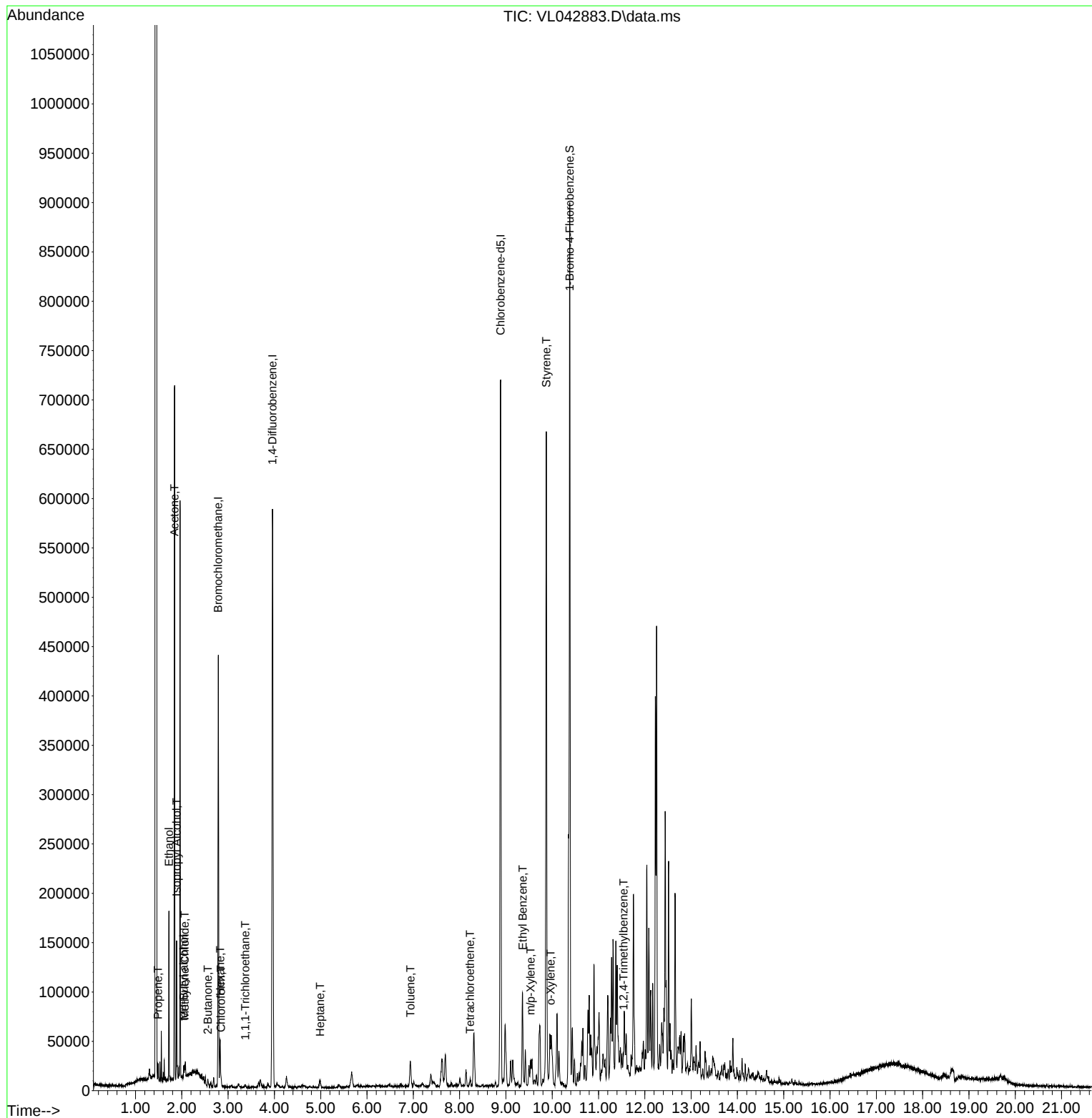
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082625\
Data File : VL042883.D
Acq On : 26 Aug 2025 13:42
Operator : SY/MD
Sample : Q2943-01DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

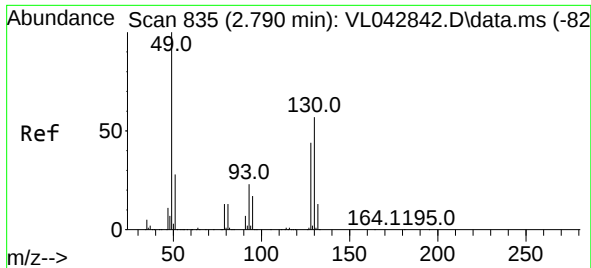
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

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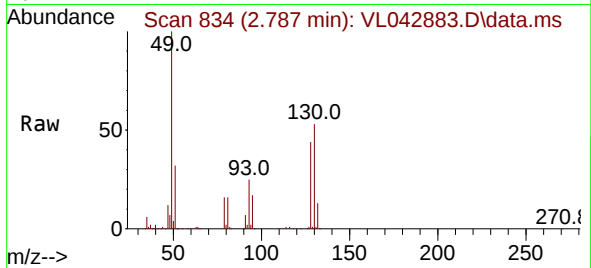
Quant Time: Aug 27 01:11:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

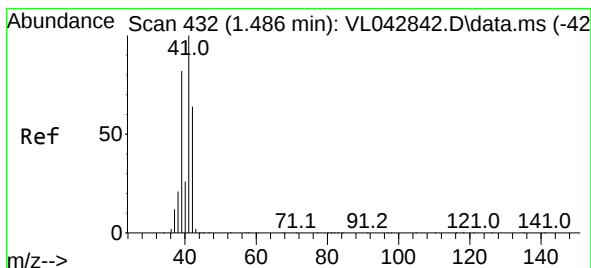
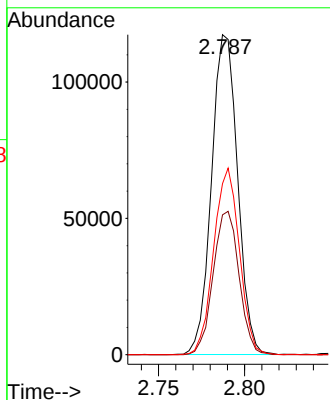
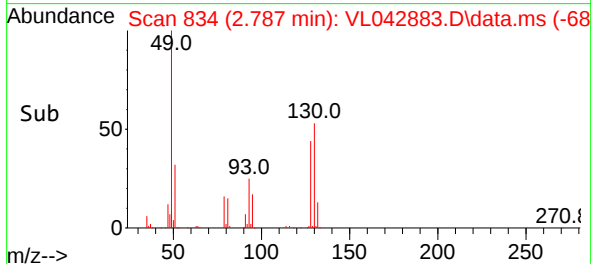
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 49 Resp: 12383
Ion Ratio Lower Upper
49 100
128 44.5 23.7 71.1
130 57.5 30.6 91.6

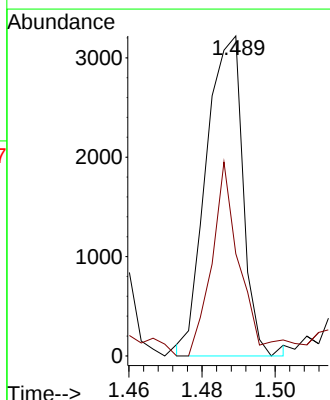
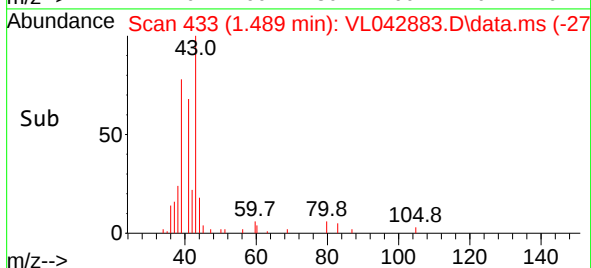
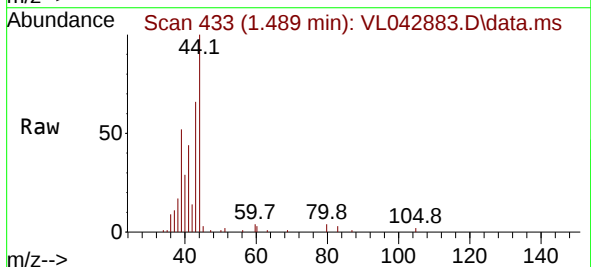
Manual Integrations
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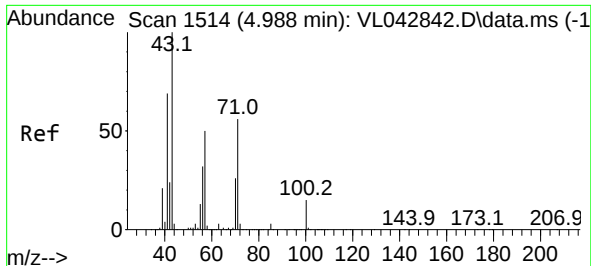
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#9
Propene
Concen: 0.260 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.003 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

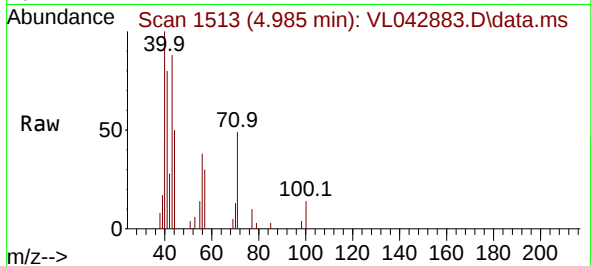
Tgt Ion: 41 Resp: 2253
Ion Ratio Lower Upper
41 100
42 167.0 53.0 79.4#





#10
Heptane
Concen: 0.126 ppbv m
RT: 4.985 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

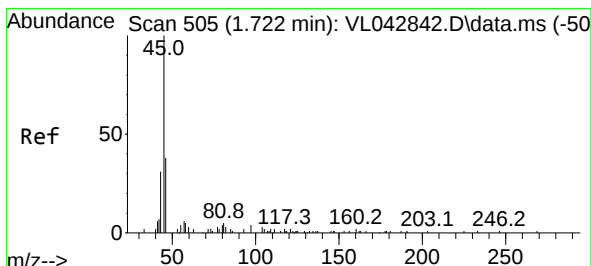
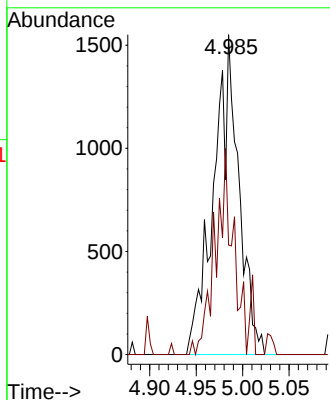
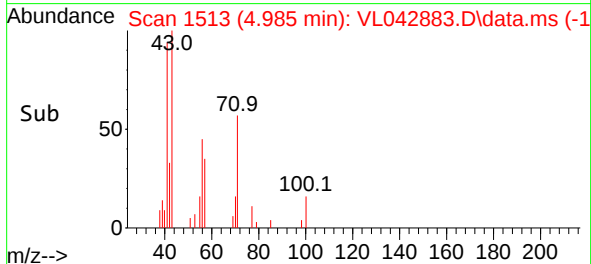
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 43 Resp: 2929
Ion Ratio Lower Upper
43 100
57 0.0 41.4 62.0

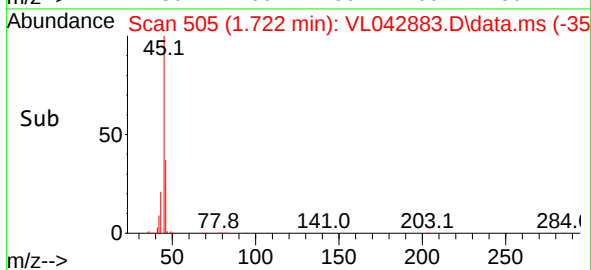
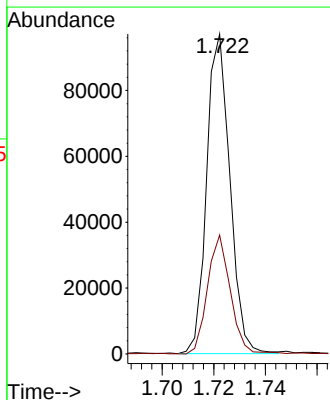
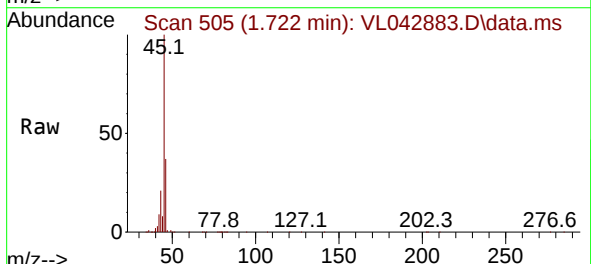
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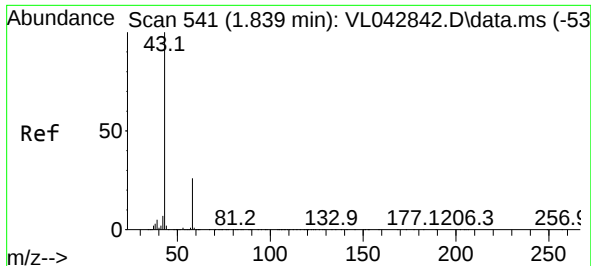
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#13
Ethanol
Concen: 76.420 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

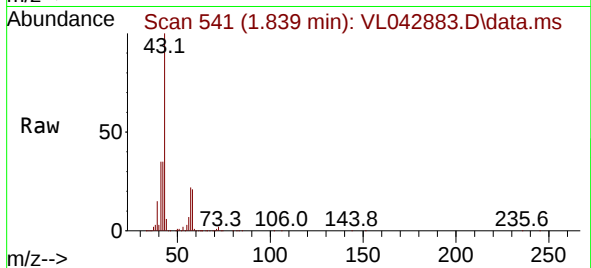
Tgt Ion: 45 Resp: 60538
Ion Ratio Lower Upper
45 100
46 37.7 17.5 69.9





#15
Acetone
Concen: 8.642 ppbv m
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

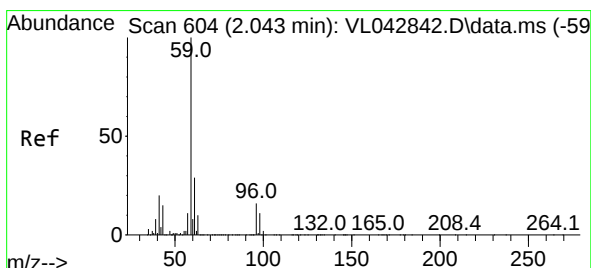
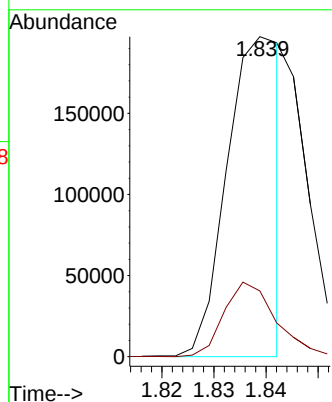
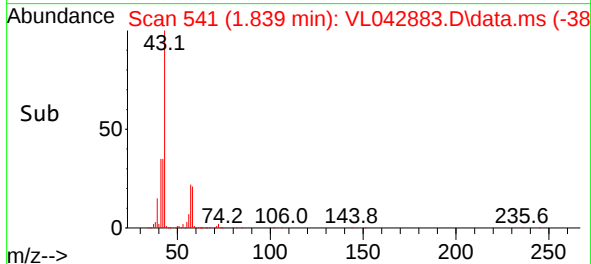
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 43 Resp: 141579
Ion Ratio Lower Upper
43 100
58 22.7 22.4 33.6

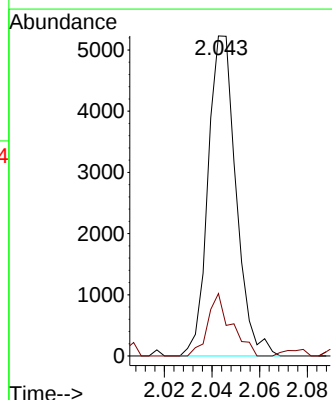
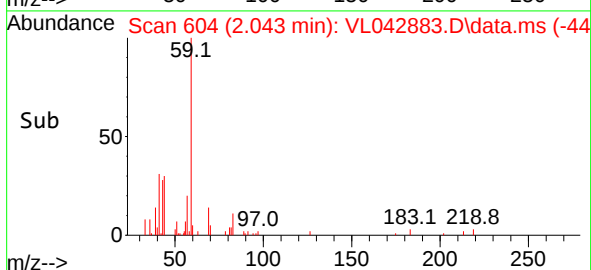
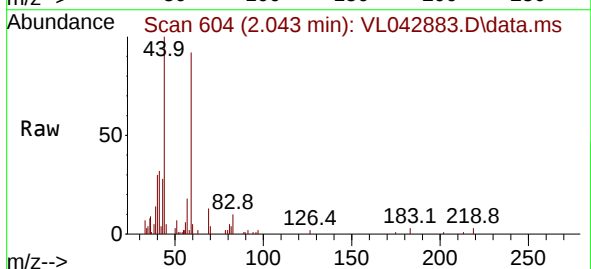
Manual Integrations
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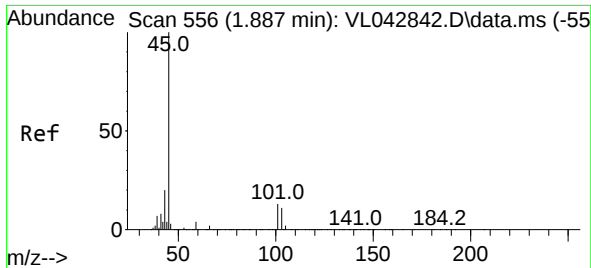
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#17
tert-Butyl alcohol
Concen: 0.220 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

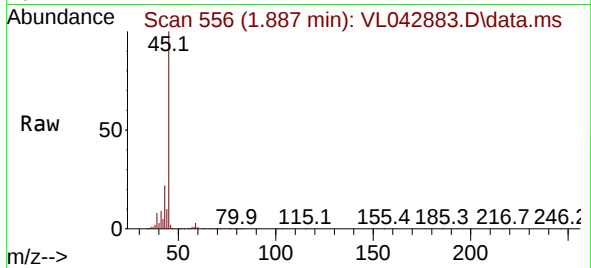
Tgt Ion: 59 Resp: 4272
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#





#19
Isopropyl Alcohol
Concen: 6.183 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

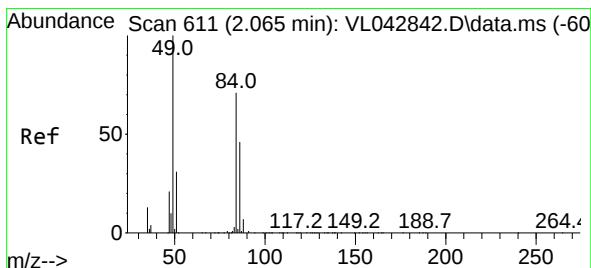
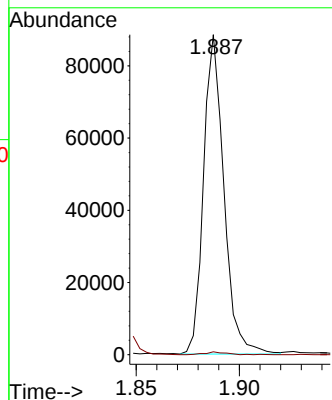
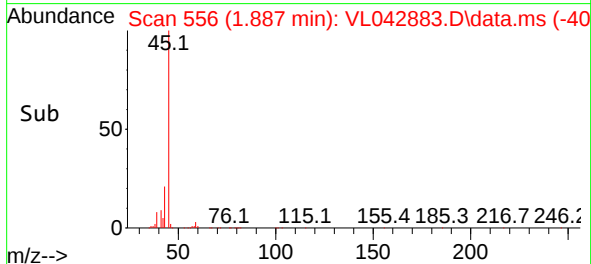
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



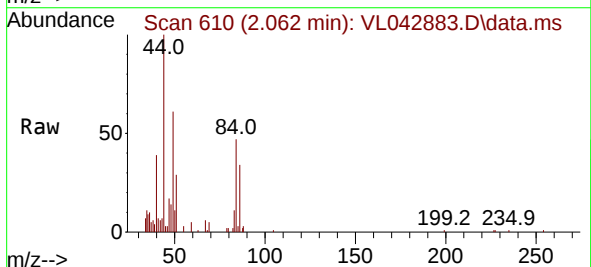
Tgt Ion: 45 Resp: 6049
Ion Ratio Lower Upper
45 100
58 53.2 32.7 49.1

Manual Integrations
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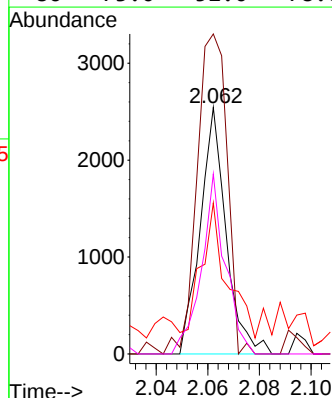
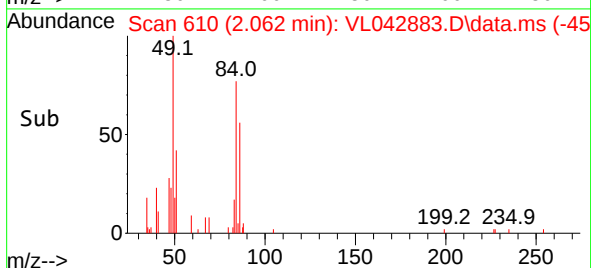
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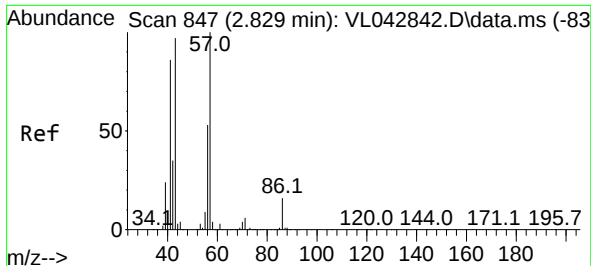


#20
Methylene Chloride
Concen: 0.258 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42



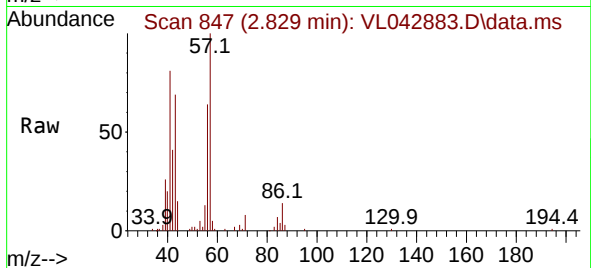
Tgt Ion: 84 Resp: 1771
Ion Ratio Lower Upper
84 100
49 129.8 112.3 168.5
51 52.6 36.0 54.0
86 73.0 52.0 78.0





#26
Hexane
Concen: 0.598 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

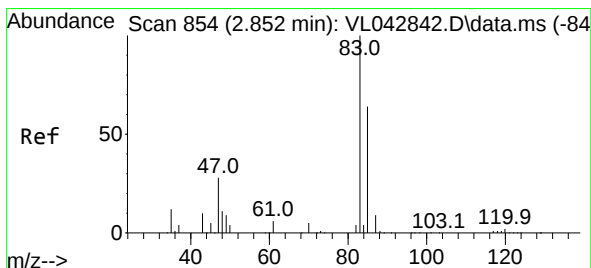
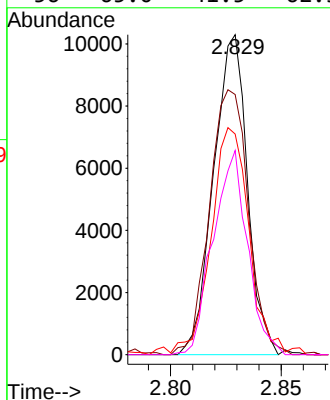
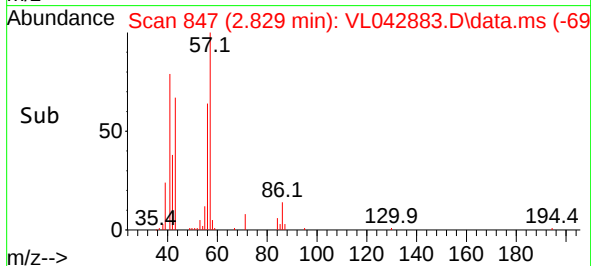
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 57 Resp: 10952
Ion Ratio Lower Upper
57 100
41 96.2 68.6 103.0
43 80.9 168.5 252.7
56 65.0 41.5 62.3

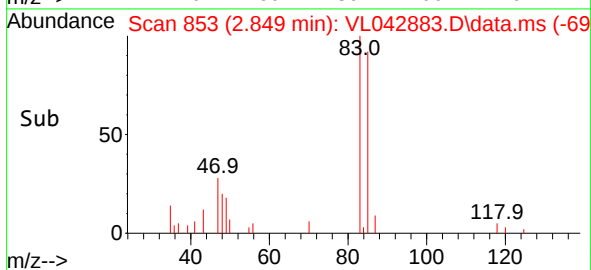
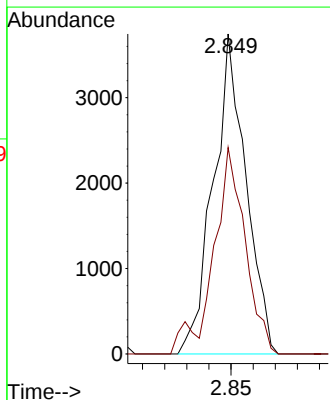
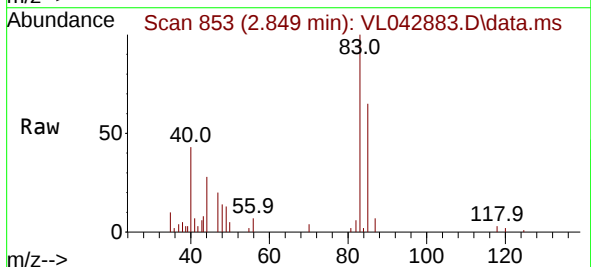
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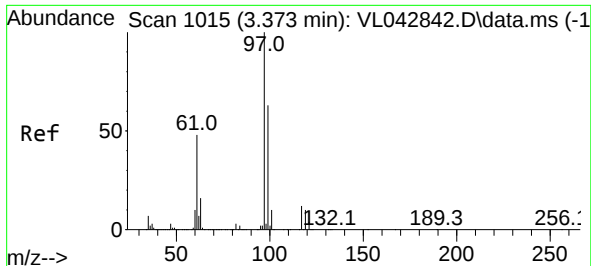
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#29
Chloroform
Concen: 0.147 ppbv
RT: 2.849 min Scan# 853
Delta R.T. -0.003 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

Tgt Ion: 83 Resp: 3846
Ion Ratio Lower Upper
83 100
85 64.5 51.1 76.7





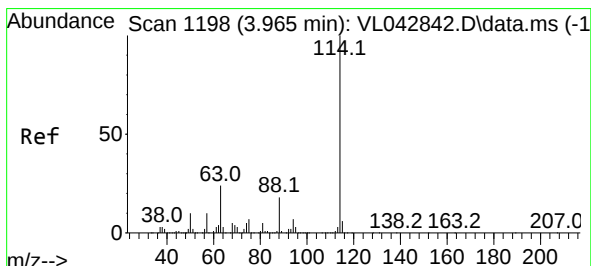
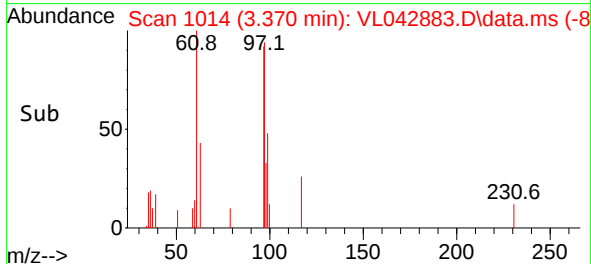
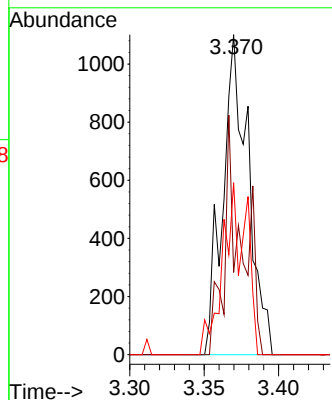
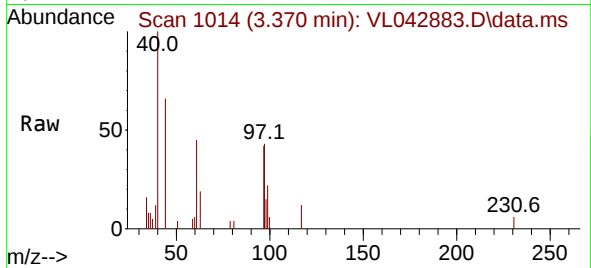
#32
1,1,1-Trichloroethane
Concen: 0.047 ppbv m
RT: 3.370 min Scan# 1015
Delta R.T. -0.003 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 97 Resp: 1308
Ion Ratio Lower Upper
97 100
99 51.2 51.0 76.6
61 49.2 38.0 57.0

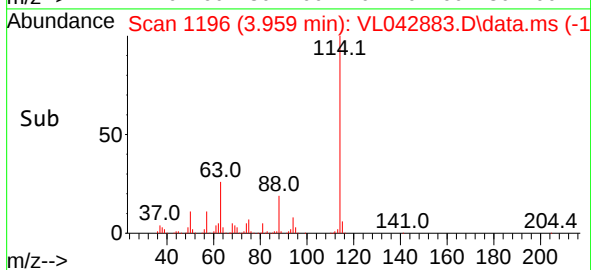
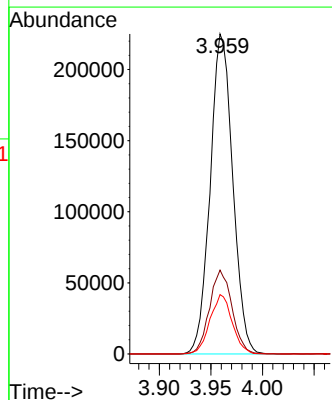
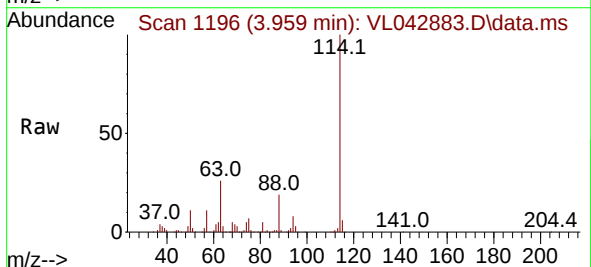
Manual Integrations
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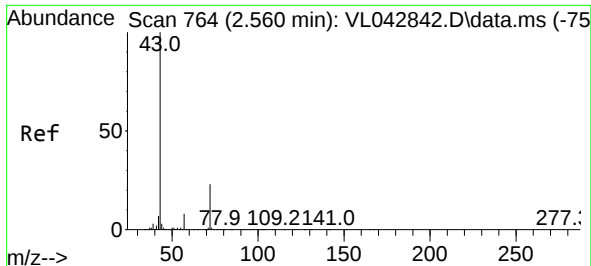
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.006 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

Tgt Ion:114 Resp: 342269
Ion Ratio Lower Upper
114 100
63 26.2 19.7 29.5
88 18.2 14.4 21.6





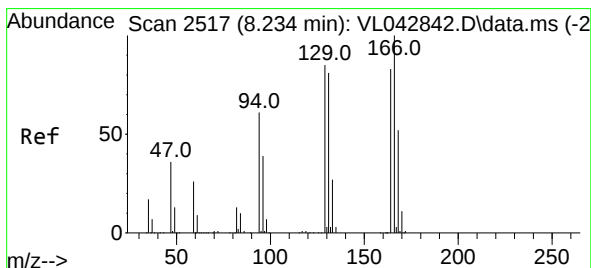
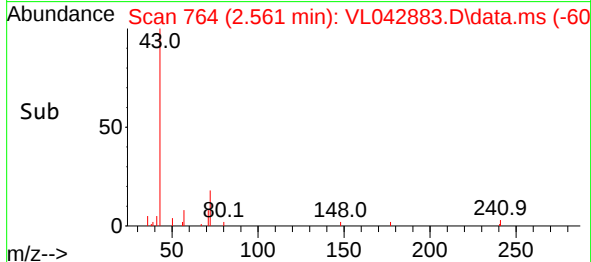
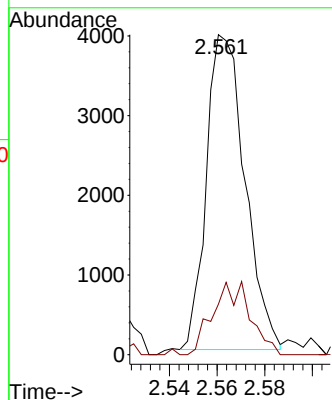
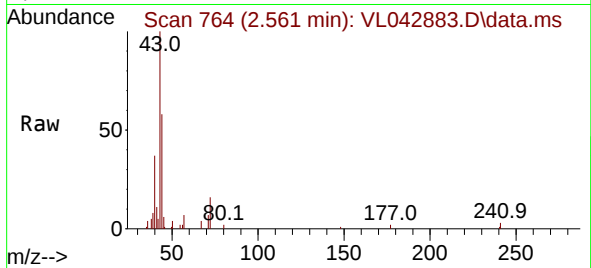
#34
2-Butanone
Concen: 0.192 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.000 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 43 Resp: 4440
Ion Ratio Lower Upper
43 100
72 22.8 18.6 28.0

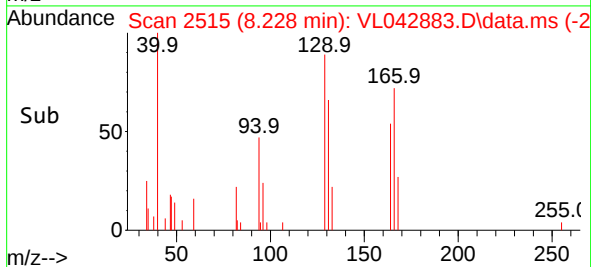
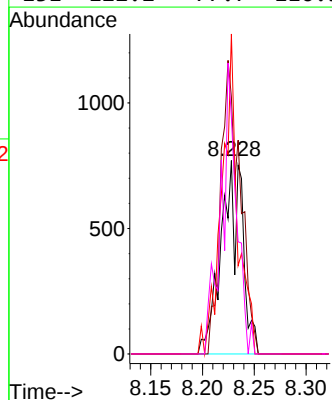
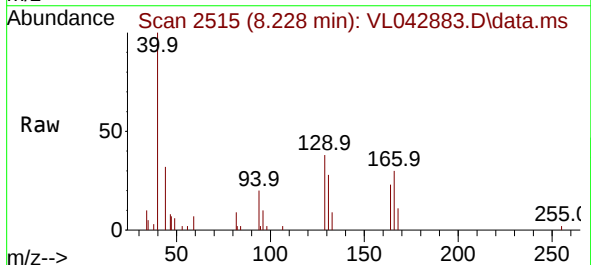
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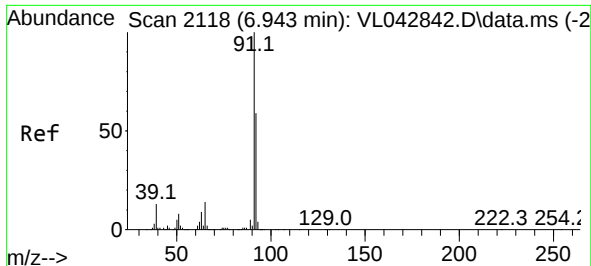
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#52
Tetrachloroethene
Concen: 0.094 ppbv m
RT: 8.228 min Scan# 2515
Delta R.T. -0.006 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

Tgt Ion:164 Resp: 1120
Ion Ratio Lower Upper
164 100
166 132.8 96.5 144.7
129 165.4 81.8 122.6#
131 122.2 77.7 116.5#





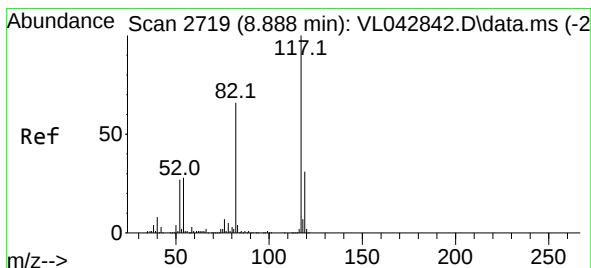
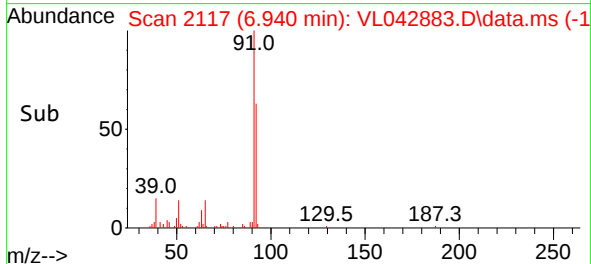
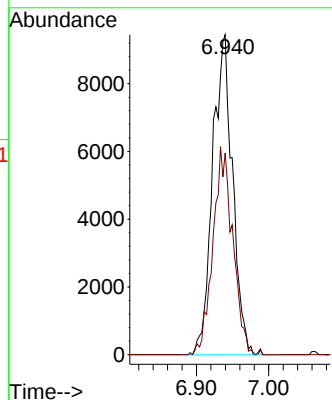
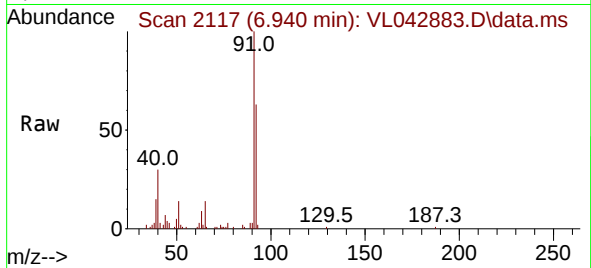
#53
Toluene
Concen: 0.463 ppbv m
RT: 6.940 min Scan# 2118
Delta R.T. -0.003 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 91 Resp: 18030
Ion Ratio Lower Upper
91 100
92 64.9 47.8 71.6

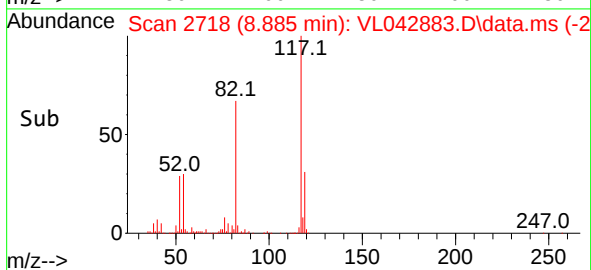
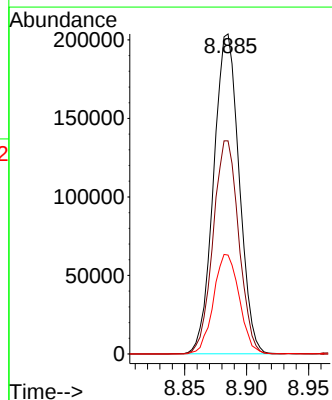
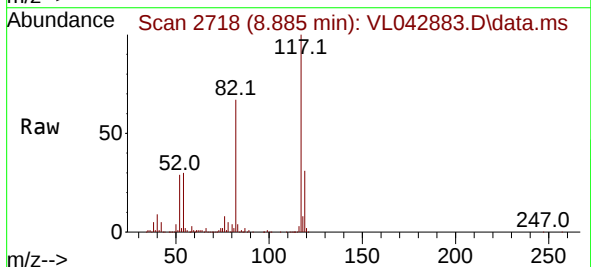
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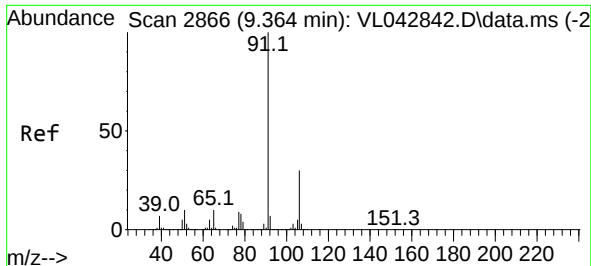
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.003 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

Tgt Ion:117 Resp: 292713
Ion Ratio Lower Upper
117 100
82 67.1 54.6 81.8
119 31.6 25.9 38.9





#58

Ethyl Benzene

Concen: 1.017 ppbv

RT: 9.361 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042883.D

Acq: 26 Aug 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion: 91 Resp: 5253

Ion Ratio Lower Upper

91 100

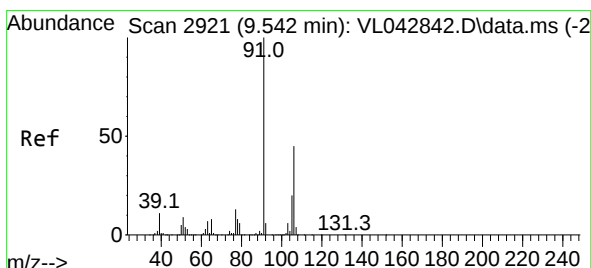
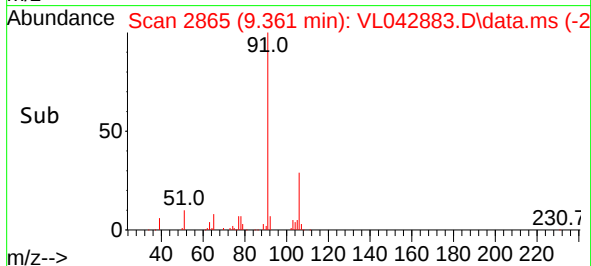
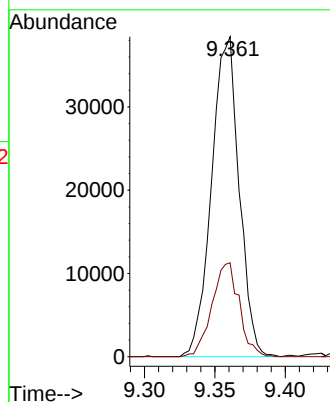
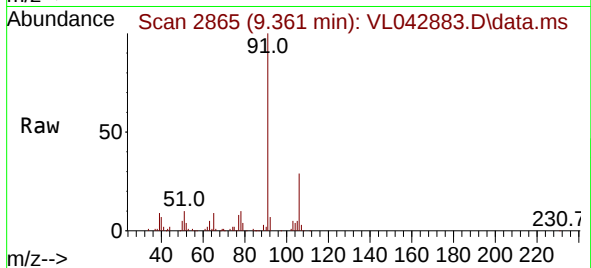
106 29.4 23.9 35.9

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APPROVED

Reviewed By :Semsettin Yesilyurt 08/27/2025

Supervised By :Mahesh Dadoda 08/27/2025



#59

m/p-Xylene

Concen: 0.377 ppbv m

RT: 9.536 min Scan# 2919

Delta R.T. -0.006 min

Lab File: VL042883.D

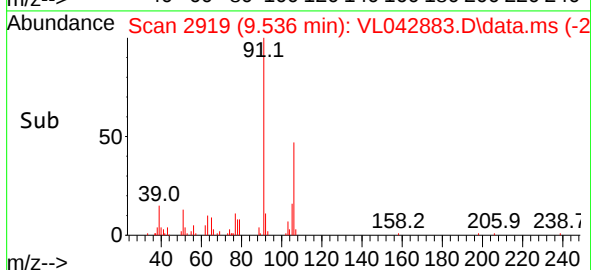
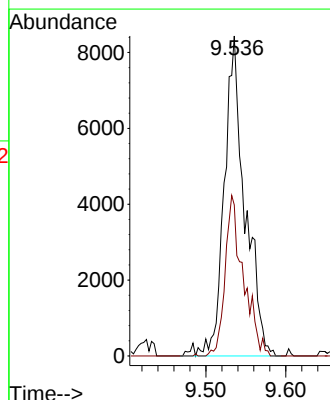
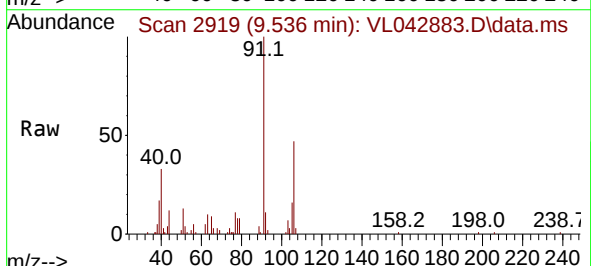
Acq: 26 Aug 2025 13:42

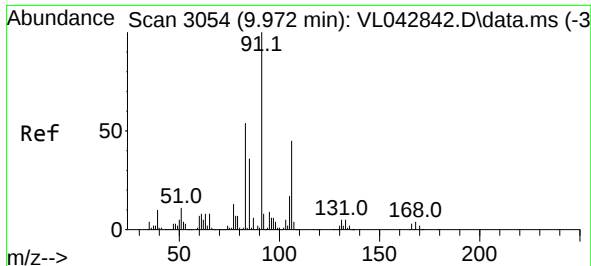
Tgt Ion: 91 Resp: 15268

Ion Ratio Lower Upper

91 100

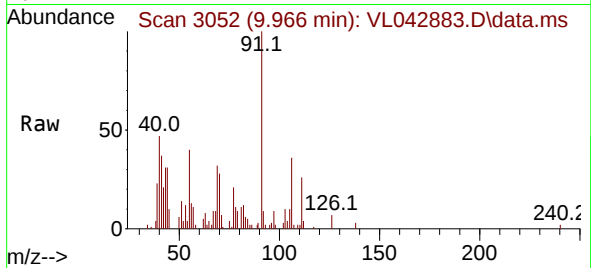
106 44.1 0.0 0.0#





#60
o-Xylene
Concen: 0.194 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.006 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

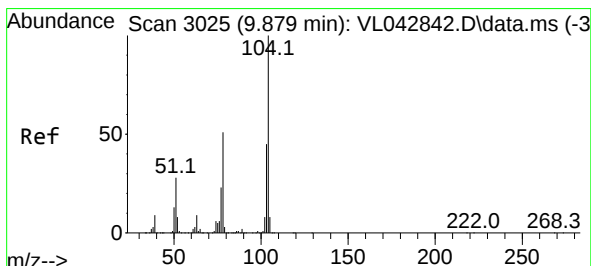
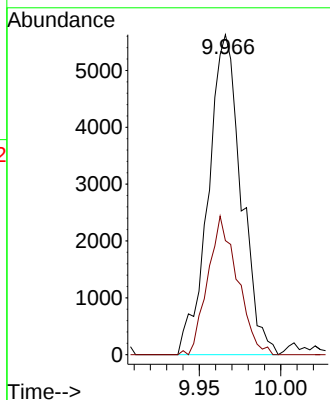
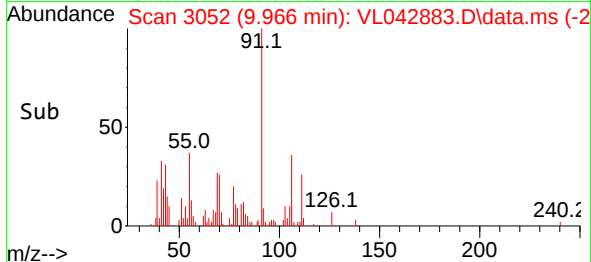
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 91 Resp: 7912
Ion Ratio Lower Upper
91 100
106 39.0 21.8 65.4

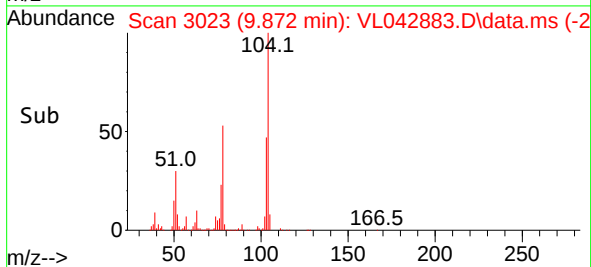
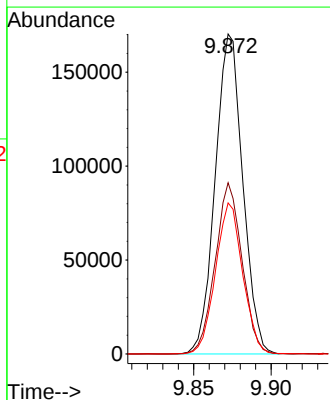
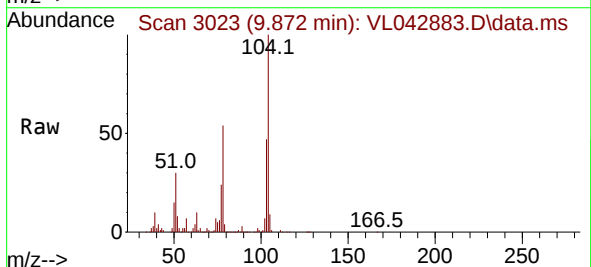
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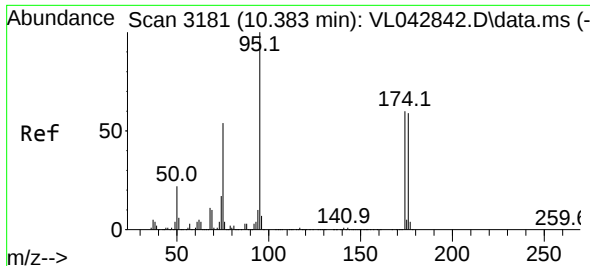
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#61
Styrene
Concen: 11.047 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. -0.006 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

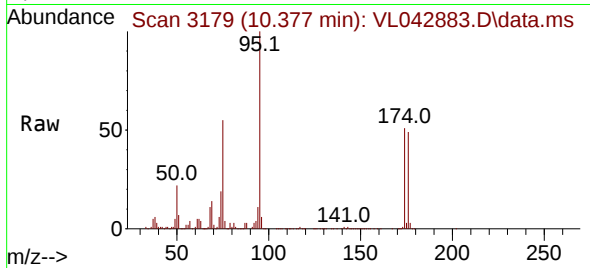
Tgt Ion:104 Resp: 210799
Ion Ratio Lower Upper
104 100
78 52.1 40.6 61.0
103 46.6 37.7 56.5





#68
1-Bromo-4-Fluorobenzene
Concen: 10.595 ppbv
RT: 10.377 min Scan# 3181
Delta R.T. -0.006 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42

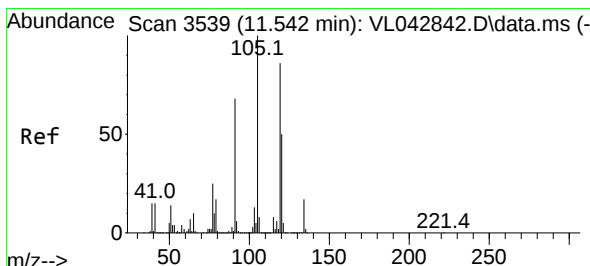
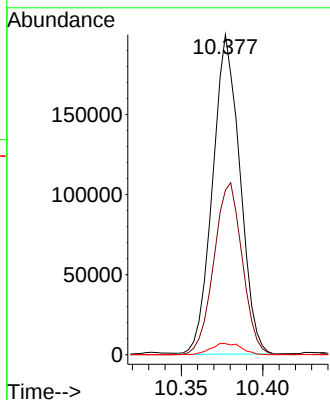
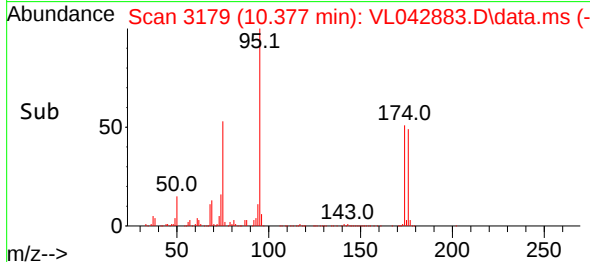
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



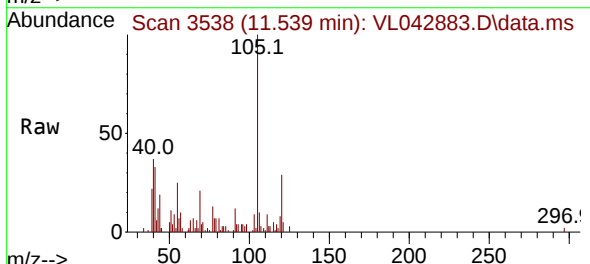
Tgt Ion: 95 Resp: 232578
Ion Ratio Lower Upper
95 100
174 55.9 48.4 72.6
175 4.0 3.8 5.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.137 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.003 min
Lab File: VL042883.D
Acq: 26 Aug 2025 13:42



Tgt Ion:105 Resp: 6318
Ion Ratio Lower Upper
105 100
120 29.7 39.8 59.6#
91 9.9 54.2 81.4#
77 11.4 19.8 29.6#

