

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082625\
 Data File : VL042885.D
 Acq On : 26 Aug 2025 15:04
 Operator : SY/MD
 Sample : Q2943-01DUP 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DUP

Manual Integrations
 APPROVED

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

Quant Time: Aug 27 01:12:13 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 01:12:13 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	2.793	49	127089	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	351085	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	304927	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 235935 10.317 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	2623	0.141	ppbv	91
9) Propene	1.489	41	5217	0.587	ppbv #	17
10) Heptane	4.991	43	7501	0.315	ppbv	94
13) Ethanol	1.725	45	145576	179.066	ppbv	91
15) Acetone	1.842	43	349758m	20.805	ppbv	
17) tert-Butyl alcohol	2.046	59	9215	0.462	ppbv #	71
19) Isopropyl Alcohol	1.890	45	146310	14.571	ppbv #	78
20) Methylene Chloride	2.065	84	2490	0.354	ppbv	92
26) Hexane	2.832	57	30482	1.623	ppbv #	46
29) Chloroform	2.855	83	9153	0.341	ppbv	91
30) Cyclohexane	3.865	84	1779m	0.108	ppbv	
32) 1,1,1-Trichloroethane	3.373	97	2937	0.104	ppbv	95
34) 2-Butanone	2.567	43	10217	0.431	ppbv	99
36) Benzene	3.664	78	6773	0.201	ppbv	96
52) Tetrachloroethene	8.231	164	3105m	0.255	ppbv	
53) Toluene	6.946	91	50686	1.268	ppbv	99
58) Ethyl Benzene	9.364	91	148839	2.766	ppbv	99
59) m/p-Xylene	9.542	91	38681	0.917	ppbv #	100
60) o-Xylene	9.969	91	19430	0.458	ppbv	96
61) Styrene	9.878	104	545876	27.461	ppbv	99
62) Isopropylbenzene	10.548	105	10221	0.165	ppbv	98
64) n-propylbenzene	10.998	120	2984	0.189	ppbv	78
74) 1,2,4-Trimethylbenzene	11.542	105	17454	0.364	ppbv #	56

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

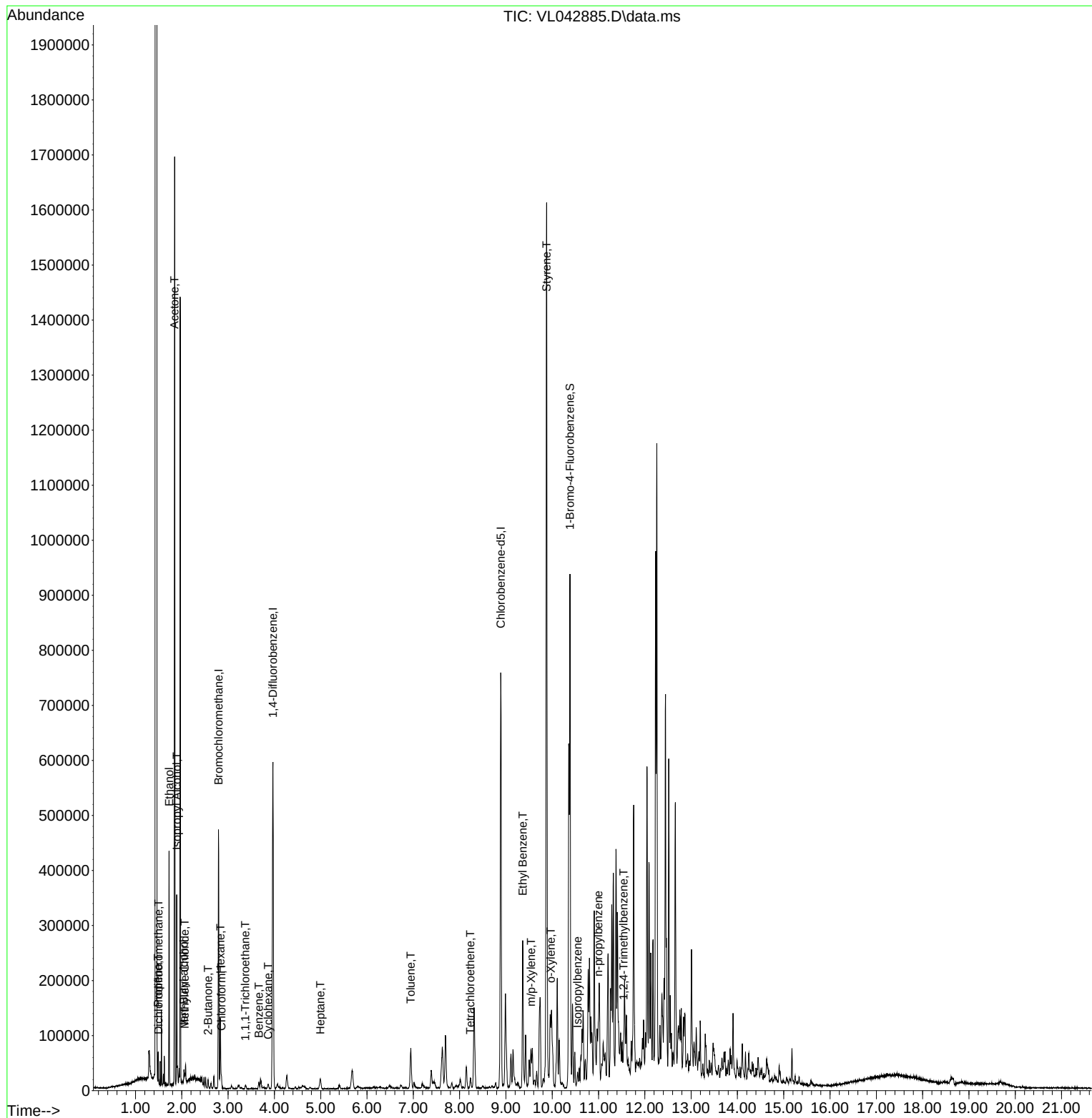
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082625\
Data File : VL042885.D
Acq On : 26 Aug 2025 15:04
Operator : SY/MD
Sample : Q2943-01DUP 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

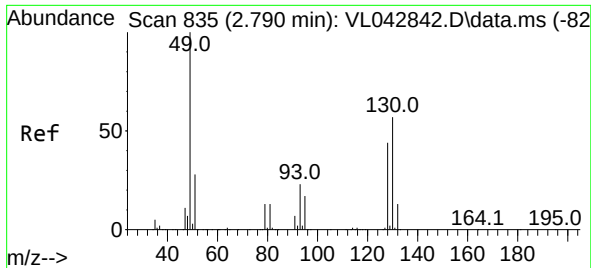
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

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

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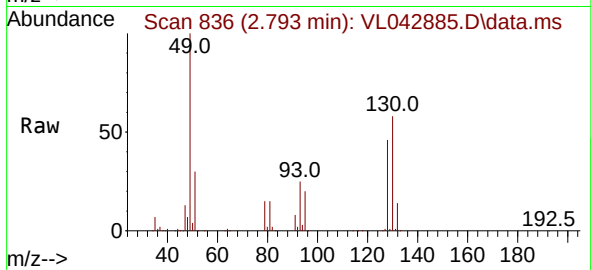
Reviewed By : Semsettin Yesilyurt 08/27/2025
Supervised By : Mahesh Dadoda 08/27/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 835
Delta R.T. 0.003 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

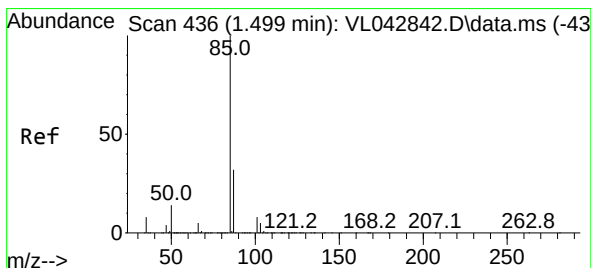
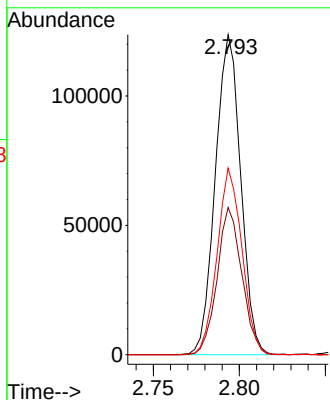
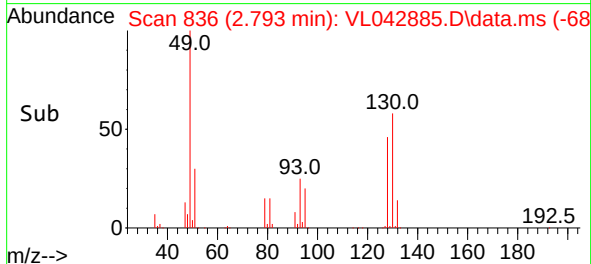
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion: 49 Resp: 127089
Ion Ratio Lower Upper
49 100
128 44.8 23.7 71.1
130 56.9 30.6 91.6

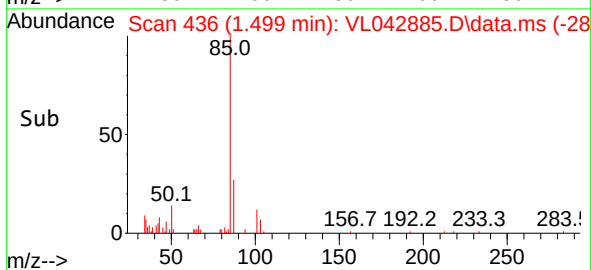
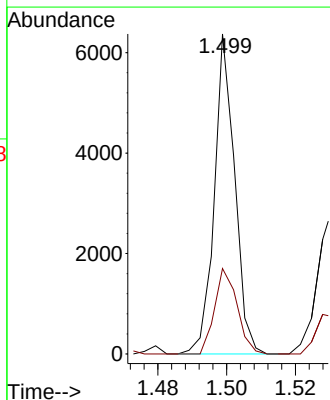
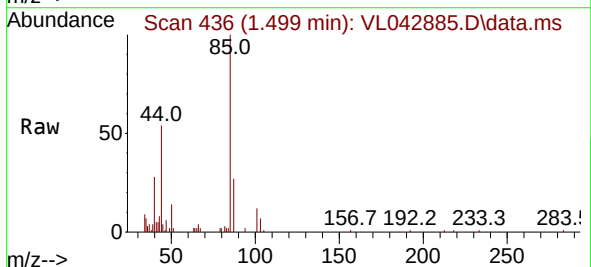
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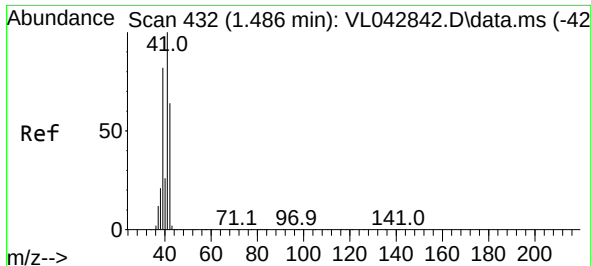
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#2
Dichlorodifluoromethane
Concen: 0.141 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

Tgt Ion: 85 Resp: 2623
Ion Ratio Lower Upper
85 100
87 26.7 25.3 37.9





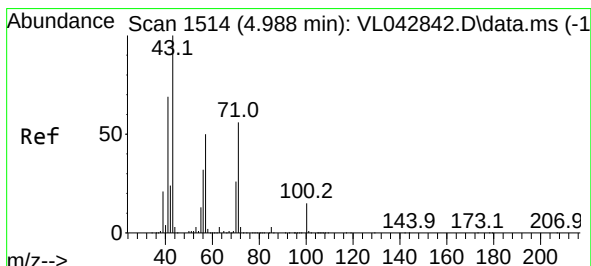
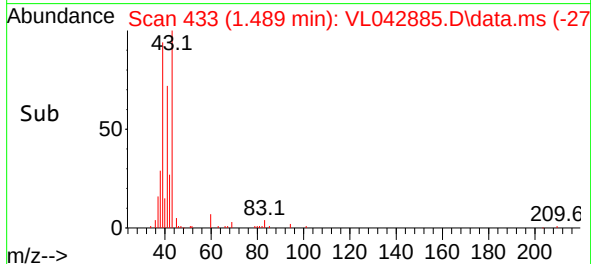
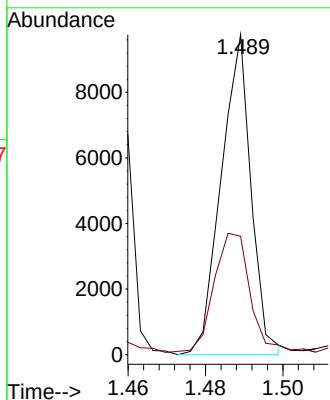
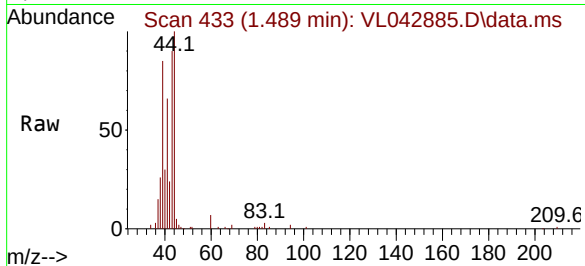
#9
 Propene
 Concen: 0.587 ppbv
 RT: 1.489 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042885.D
 Acq: 26 Aug 2025 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DUP

Tgt Ion: 41 Resp: 521
 Ion Ratio Lower Upper
 41 100
 42 0.0 53.0 79.4

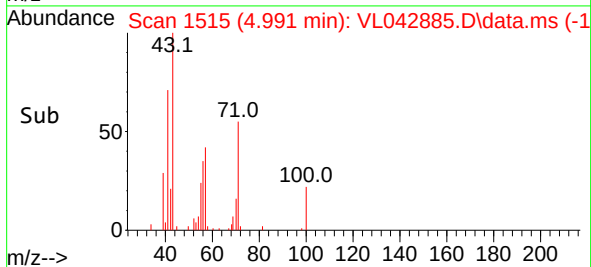
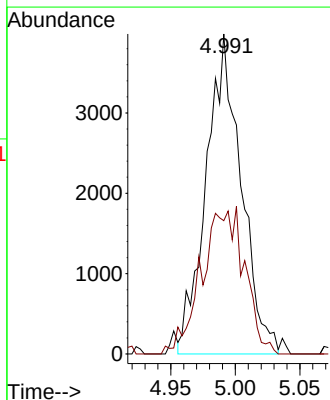
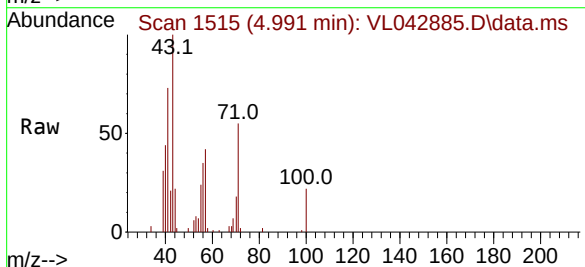
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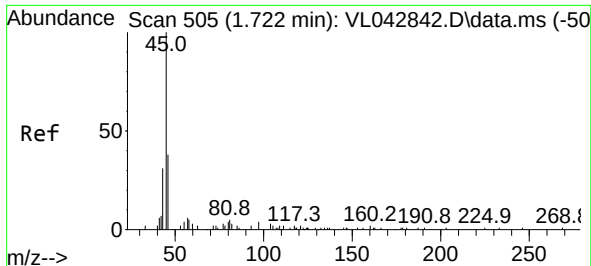
Reviewed By :Semsettin Yesilyurt 08/27/2025
 Supervised By :Mahesh Dadoda 08/27/2025



#10
 Heptane
 Concen: 0.315 ppbv
 RT: 4.991 min Scan# 1515
 Delta R.T. 0.003 min
 Lab File: VL042885.D
 Acq: 26 Aug 2025 15:04

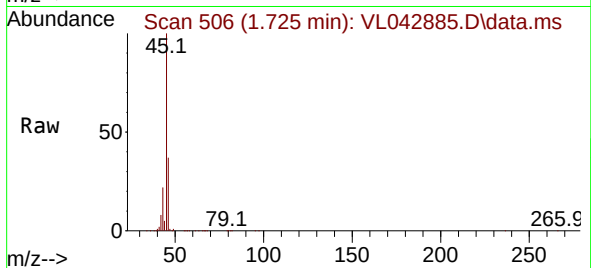
Tgt Ion: 43 Resp: 7501
 Ion Ratio Lower Upper
 43 100
 57 56.1 41.4 62.0





#13
Ethanol
Concen: 179.066 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

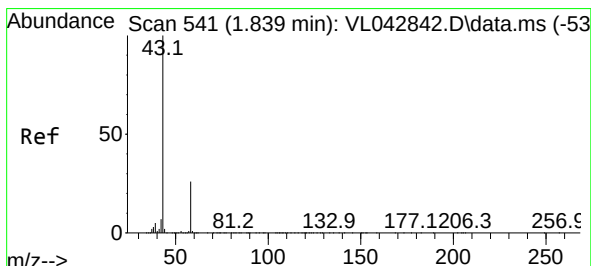
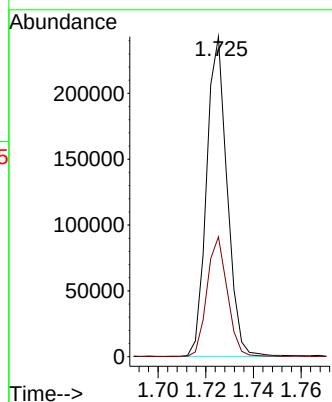
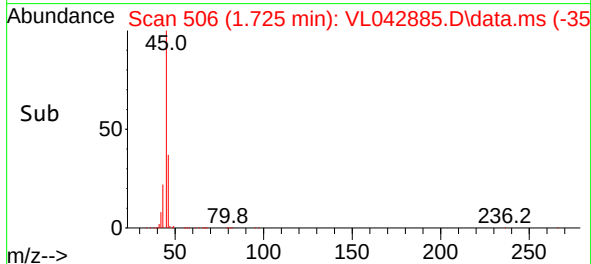
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion: 45 Resp: 145570
Ion Ratio Lower Upper
45 100
46 38.1 17.5 69.9

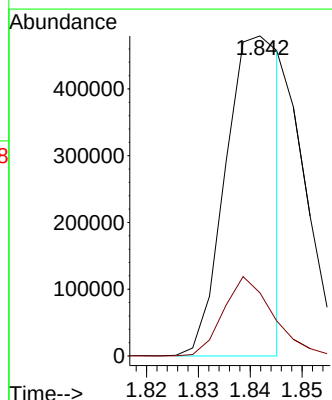
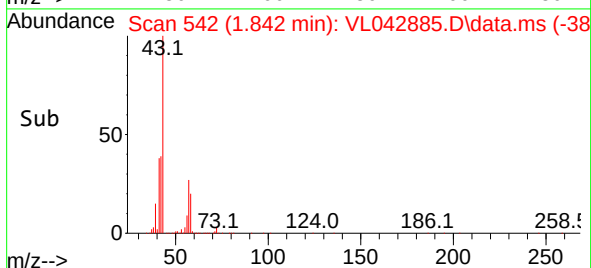
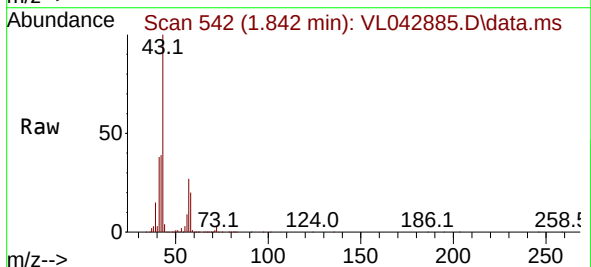
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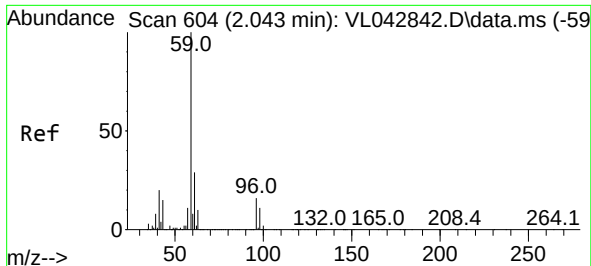
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#15
Acetone
Concen: 20.805 ppbv m
RT: 1.842 min Scan# 542
Delta R.T. 0.003 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

Tgt Ion: 43 Resp: 349758
Ion Ratio Lower Upper
43 100
58 22.8 22.4 33.6





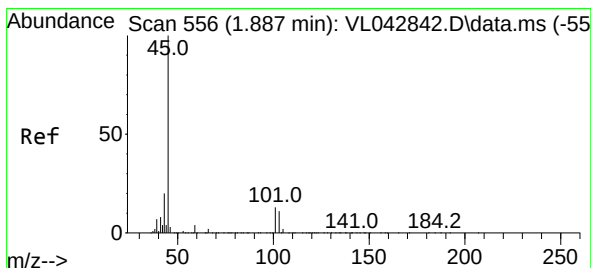
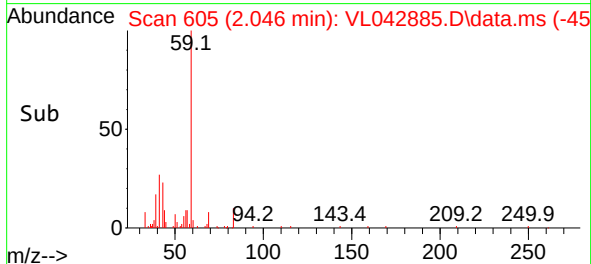
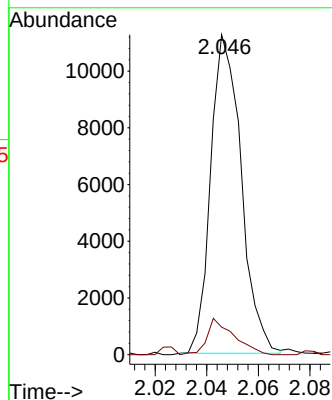
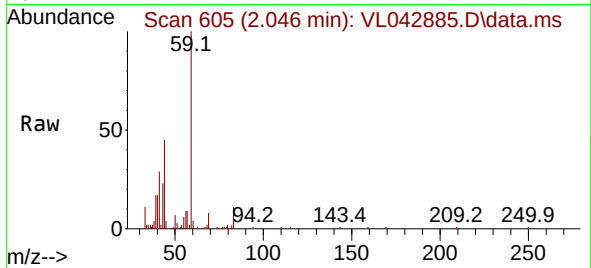
#17
tert-Butyl alcohol
Concen: 0.462 ppbv
RT: 2.046 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 59 Resp: 9215
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4

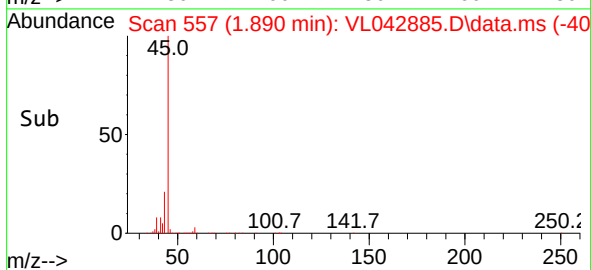
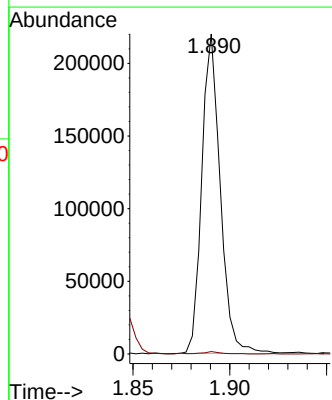
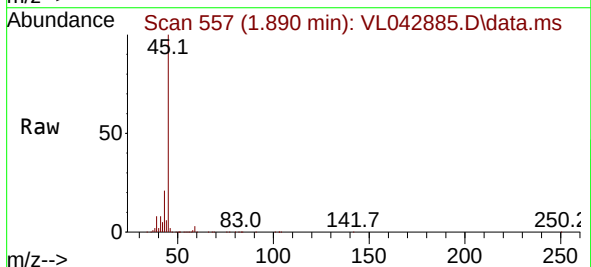
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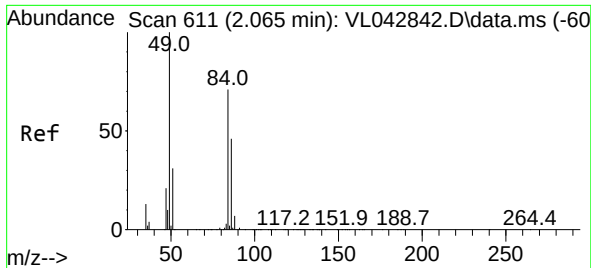
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#19
Isopropyl Alcohol
Concen: 14.571 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

Tgt Ion: 45 Resp: 146310
Ion Ratio Lower Upper
45 100
58 54.5 32.7 49.1





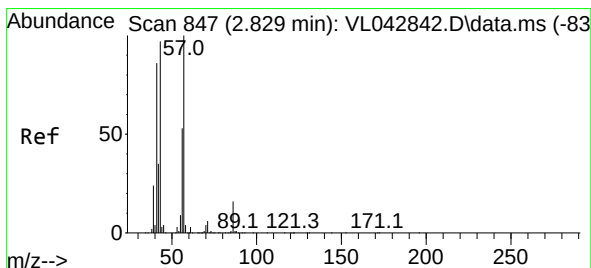
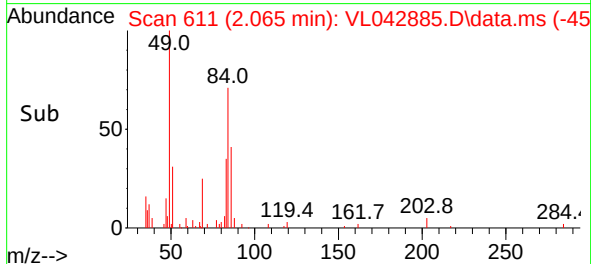
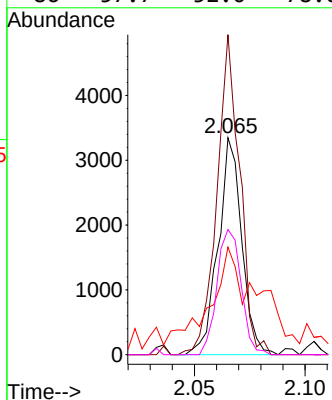
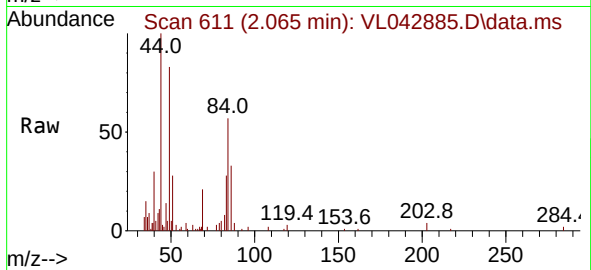
#20
Methylene Chloride
Concen: 0.354 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 84 Resp: 2490
Ion Ratio Lower Upper
84 100
49 147.5 112.3 168.5
51 38.2 36.0 54.0
86 57.7 52.0 78.0

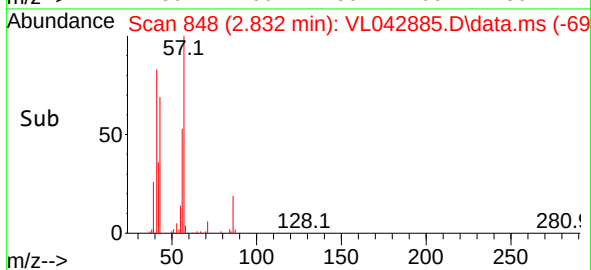
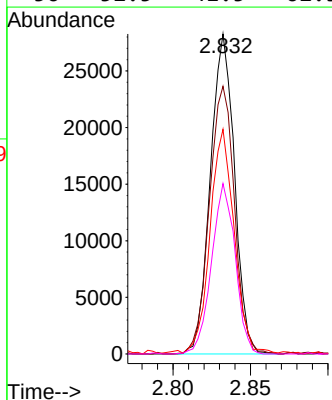
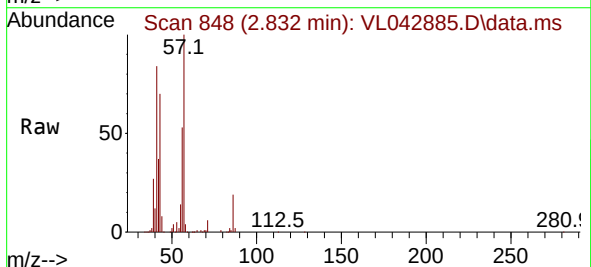
Manual Integrations
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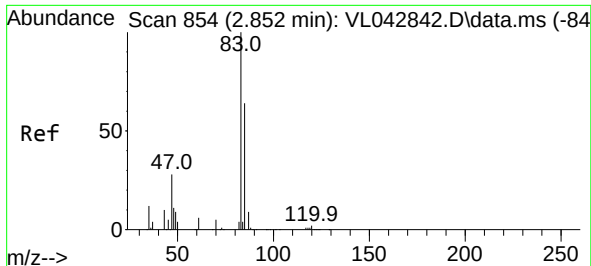
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#26
Hexane
Concen: 1.623 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

Tgt Ion: 57 Resp: 30482
Ion Ratio Lower Upper
57 100
41 87.6 68.6 103.0
43 72.6 168.5 252.7#
56 52.5 41.5 62.3





#29

Chloroform

Concen: 0.341 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042885.D

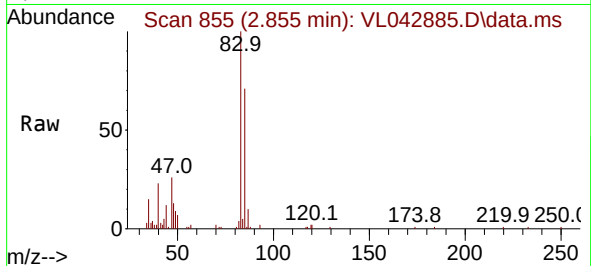
Acq: 26 Aug 2025 15:04

Instrument :

MSVOA_L

ClientSampleId :

SV1DUP

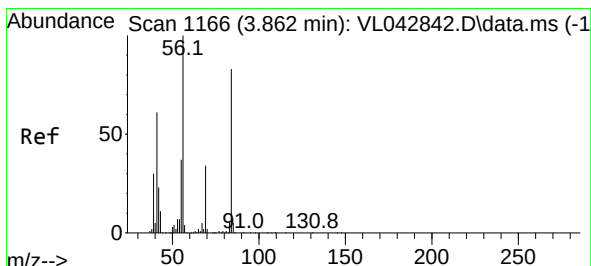
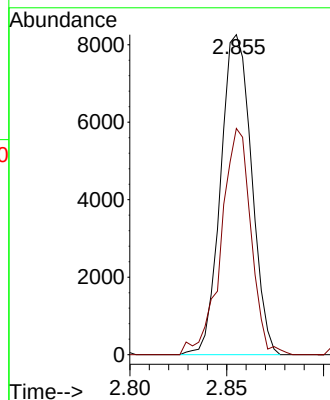
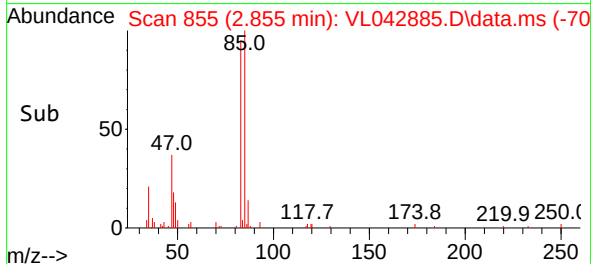


Tgt Ion:	83	Resp:	915
Ion	Ratio	Lower	Upper
83	100		
85	70.7	51.1	76.7

Manual Integrations

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



#30

Cyclohexane

Concen: 0.108 ppbv m

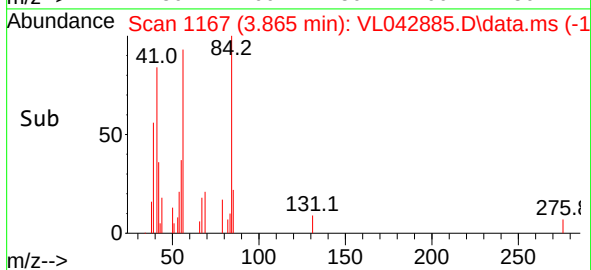
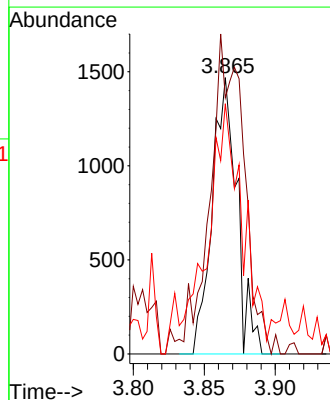
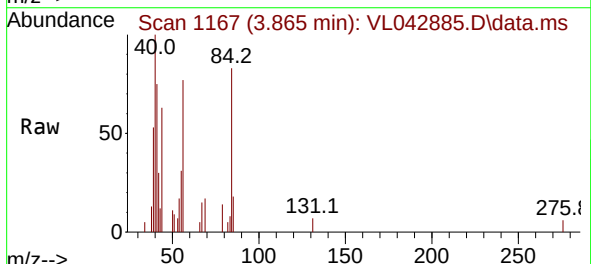
RT: 3.865 min Scan# 1167

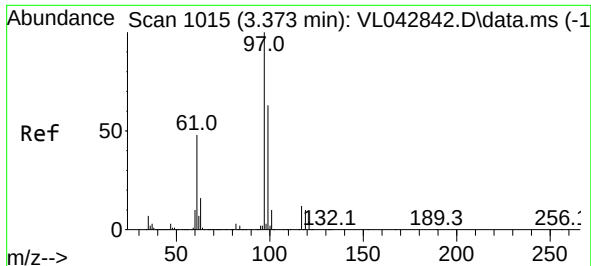
Delta R.T. 0.003 min

Lab File: VL042885.D

Acq: 26 Aug 2025 15:04

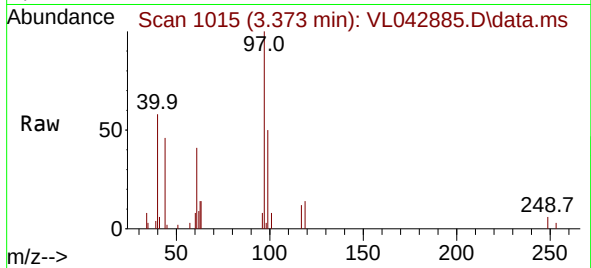
Tgt Ion:	84	Resp:	1779
Ion	Ratio	Lower	Upper
84	100		
56	0.0	98.8	148.2#
41	0.0	61.3	91.9#





#32
 1,1,1-Trichloroethane
 Concen: 0.104 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL042885.D
 Acq: 26 Aug 2025 15:04

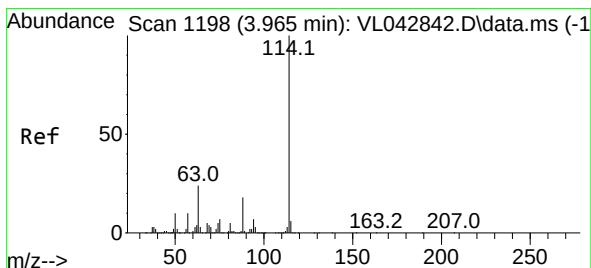
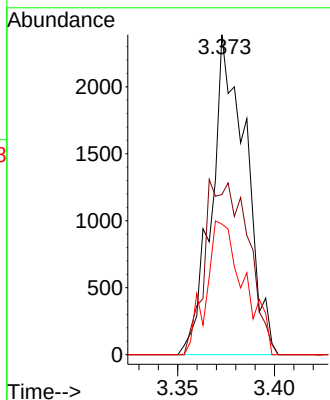
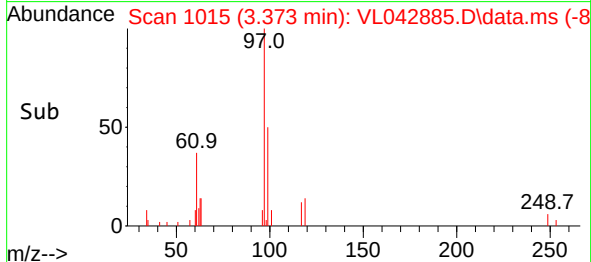
Instrument :
 MSVOA_L
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 SV1DUP



Tgt Ion	Ratio	Lower	Upper
97	100		
99	69.0	51.0	76.6
61	46.4	38.0	57.0

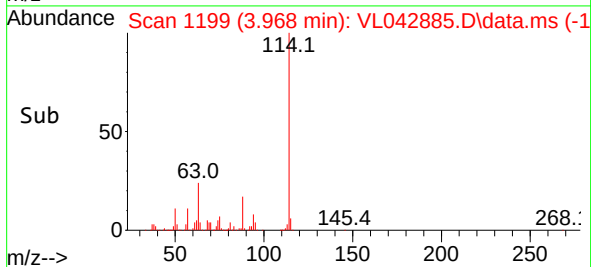
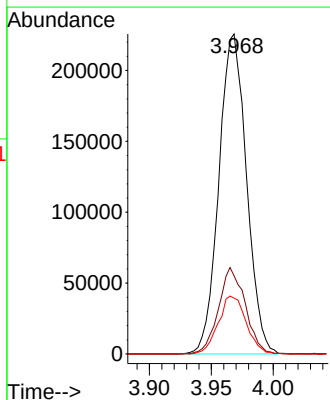
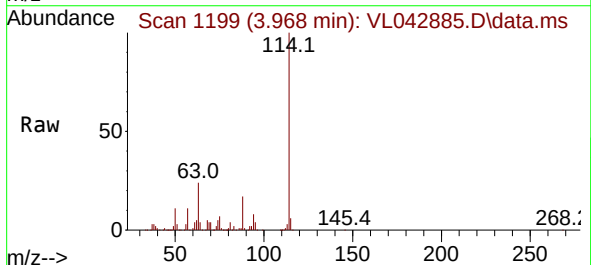
Manual Integrations
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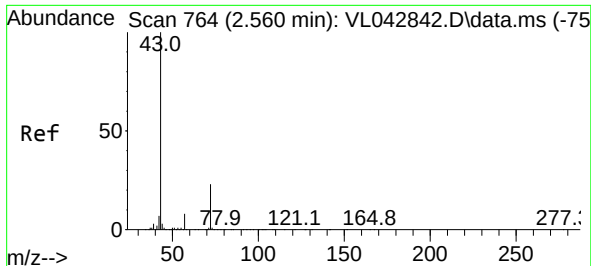
Reviewed By :Semsettin Yesilyurt 08/27/2025
 Supervised By :Mahesh Dadoda 08/27/2025



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.968 min Scan# 1199
 Delta R.T. 0.003 min
 Lab File: VL042885.D
 Acq: 26 Aug 2025 15:04

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.1	19.7	29.5
88	18.2	14.4	21.6





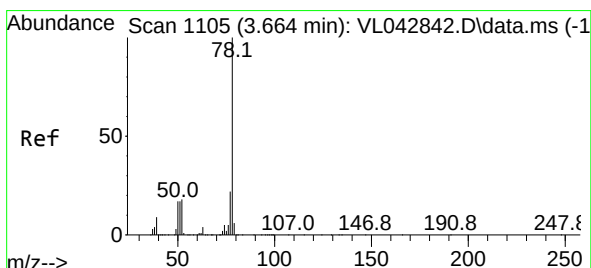
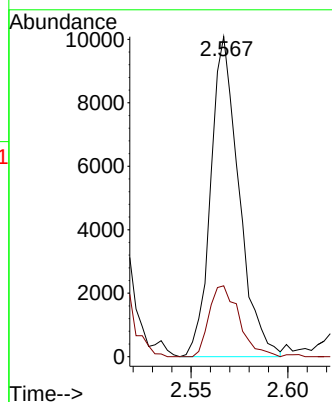
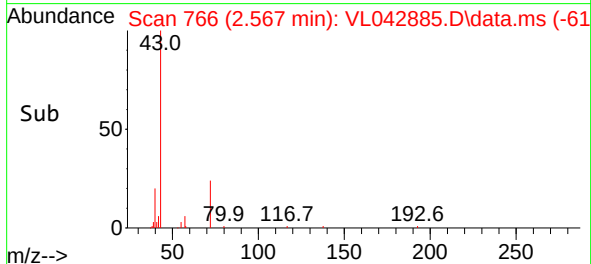
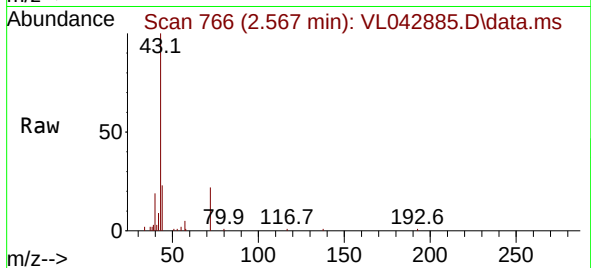
#34
2-Butanone
Concen: 0.431 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.006 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 43 Resp: 1021
Ion Ratio Lower Upper
43 100
72 24.0 18.6 28.0

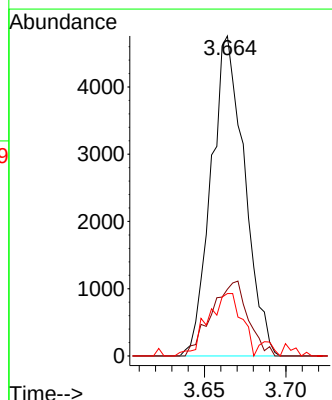
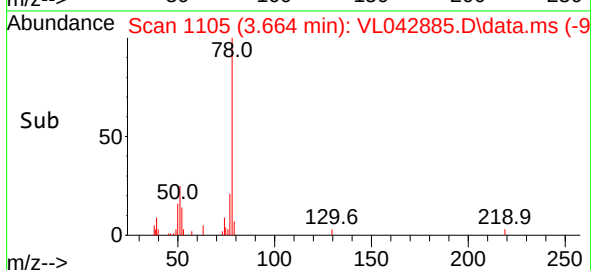
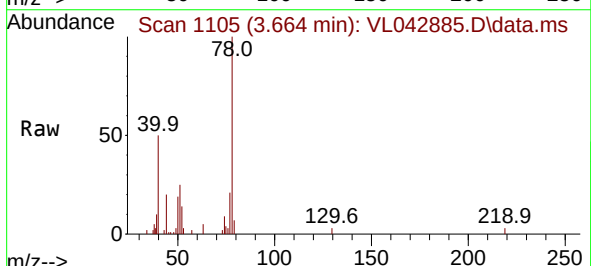
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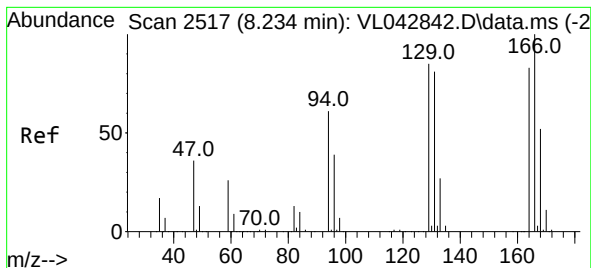
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#36
Benzene
Concen: 0.201 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. -0.000 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

Tgt Ion: 78 Resp: 6773
Ion Ratio Lower Upper
78 100
77 20.9 17.7 26.5
50 19.5 13.9 20.9





#52

Tetrachloroethene

Concen: 0.255 ppbv m

RT: 8.231 min Scan# 2119

Delta R.T. -0.003 min

Lab File: VL042885.D

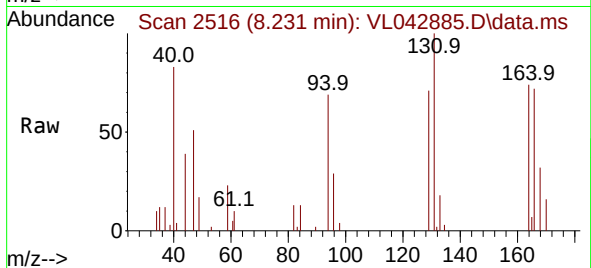
Acq: 26 Aug 2025 15:04

Instrument :

MSVOA_L

ClientSampleId :

SV1DUP



Tgt Ion:164 Resp: 310

Ion Ratio Lower Upper

164 100

166 97.6 96.5 144.7

129 96.0 81.8 122.6

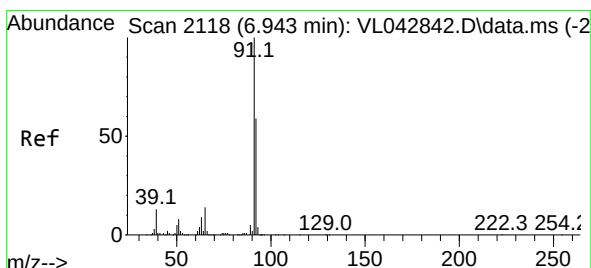
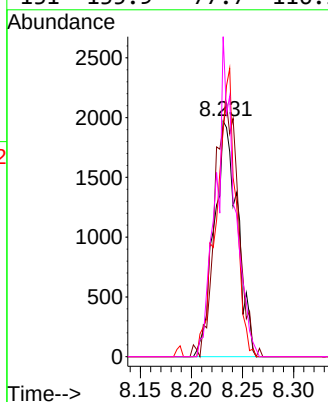
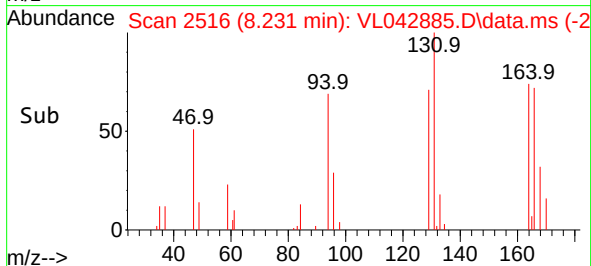
131 135.9 77.7 116.5#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/27/2025

Supervised By :Mahesh Dadoda 08/27/2025



#53

Toluene

Concen: 1.268 ppbv

RT: 6.946 min Scan# 2119

Delta R.T. 0.003 min

Lab File: VL042885.D

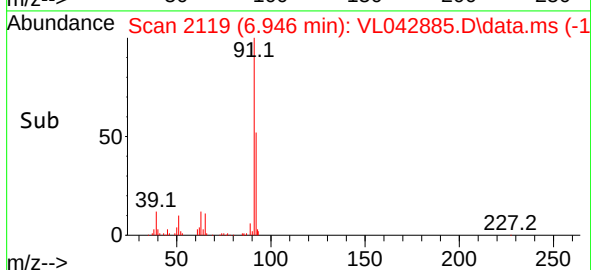
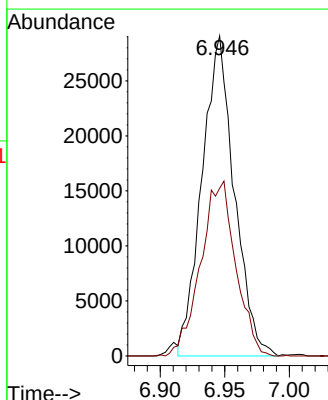
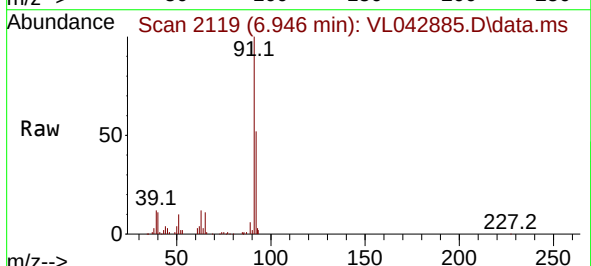
Acq: 26 Aug 2025 15:04

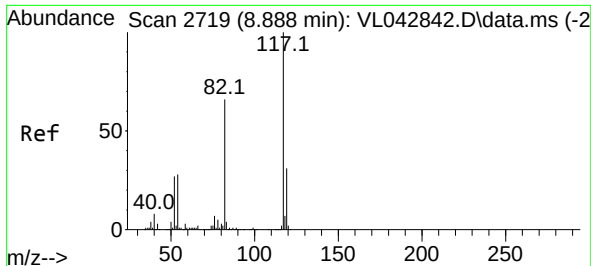
Tgt Ion: 91 Resp: 50686

Ion Ratio Lower Upper

91 100

92 59.2 47.8 71.6





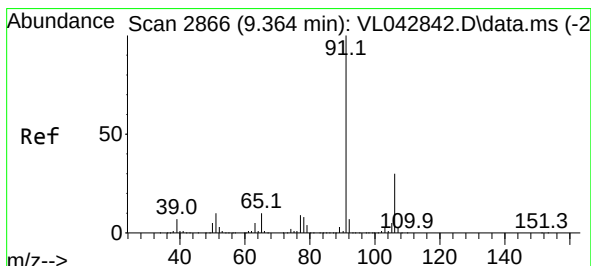
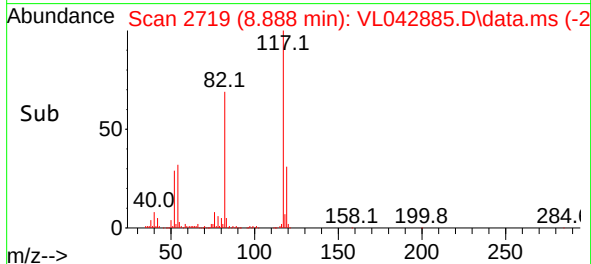
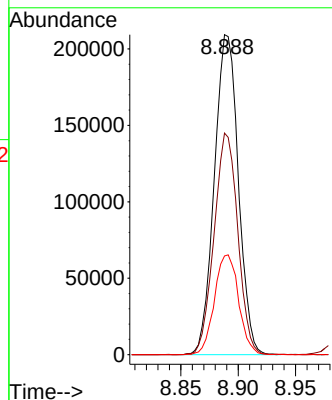
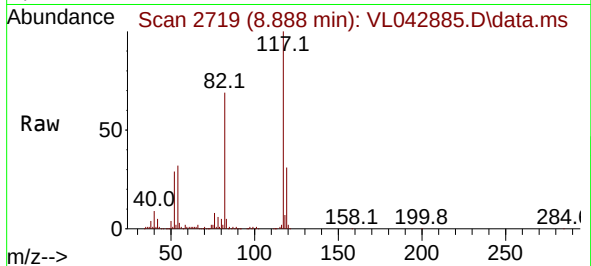
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. -0.000 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion:117 Resp: 30492
Ion Ratio Lower Upper
117 100
82 68.5 54.6 81.8
119 31.4 25.9 38.9

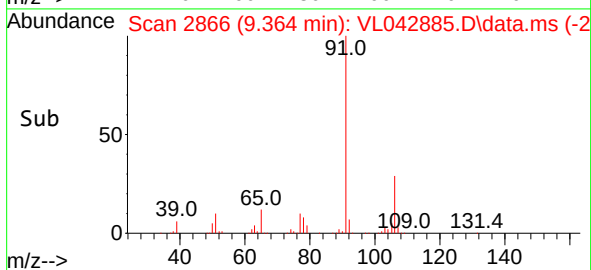
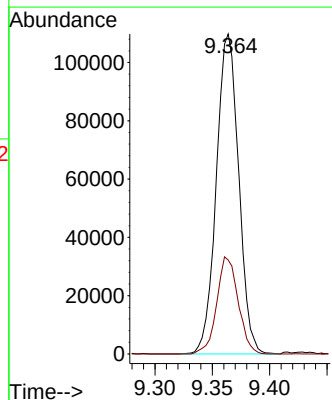
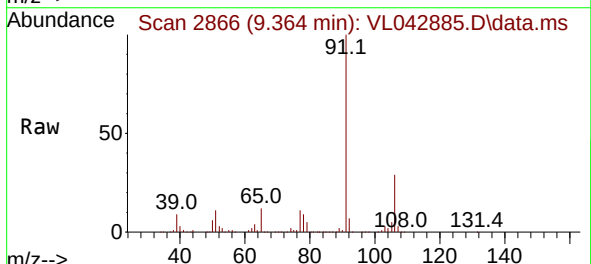
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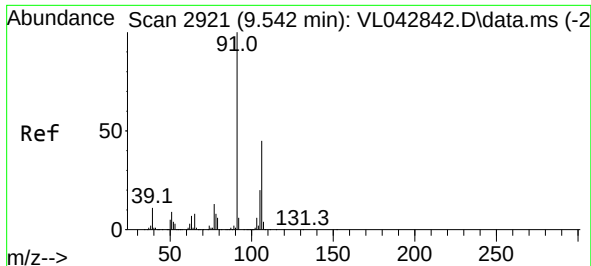
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#58
Ethyl Benzene
Concen: 2.766 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. -0.000 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

Tgt Ion: 91 Resp: 148839
Ion Ratio Lower Upper
91 100
106 29.4 23.9 35.9





#59

m/p-Xylene

Concen: 0.917 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. -0.000 min

Lab File: VL042885.D

Acq: 26 Aug 2025 15:04

Instrument :

MSVOA_L

ClientSampleId :

SV1DUP

Tgt Ion: 91 Resp: 3868

Ion Ratio Lower Upper

91 100

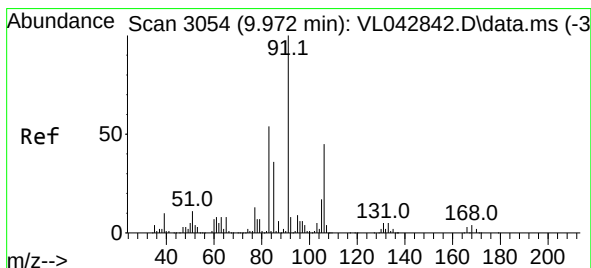
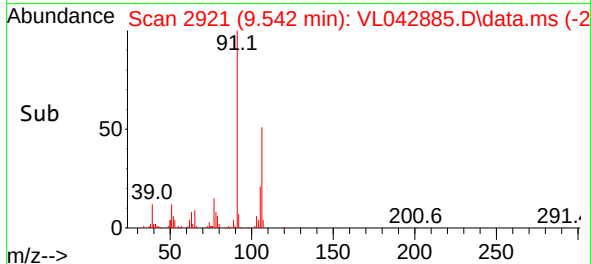
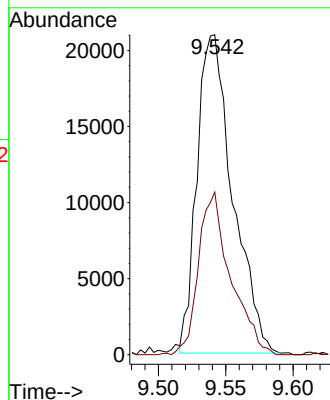
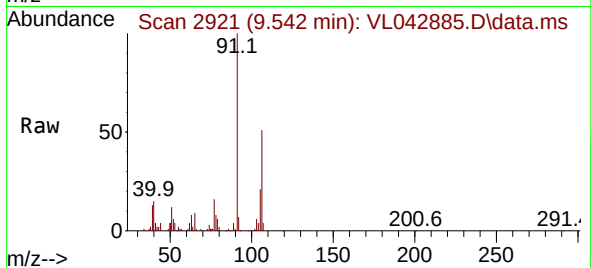
106 46.0 0.0 0.0

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Reviewed By :Semsettin Yesilyurt 08/27/2025

Supervised By :Mahesh Dadoda 08/27/2025



#60

o-Xylene

Concen: 0.458 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.003 min

Lab File: VL042885.D

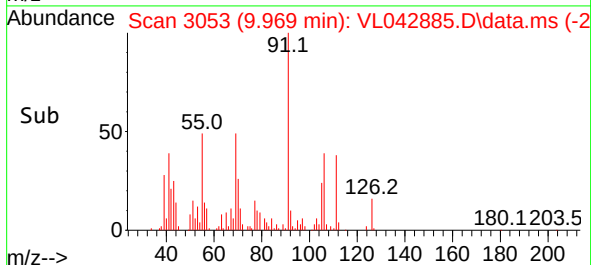
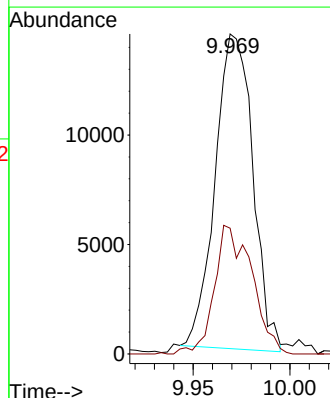
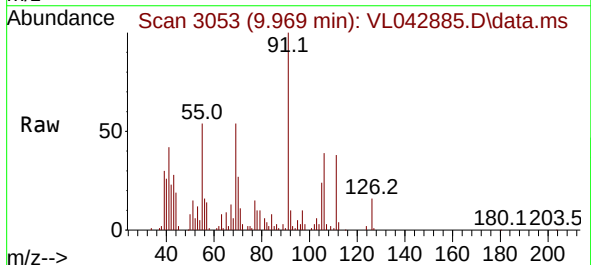
Acq: 26 Aug 2025 15:04

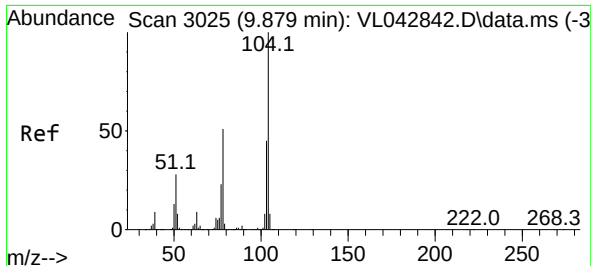
Tgt Ion: 91 Resp: 19430

Ion Ratio Lower Upper

91 100

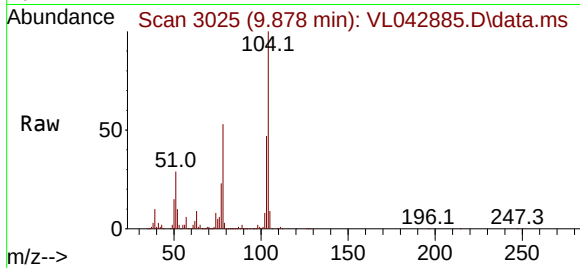
106 40.7 21.8 65.4





#61
Styrene
Concen: 27.461 ppbv
RT: 9.878 min Scan# 3025
Delta R.T. -0.000 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

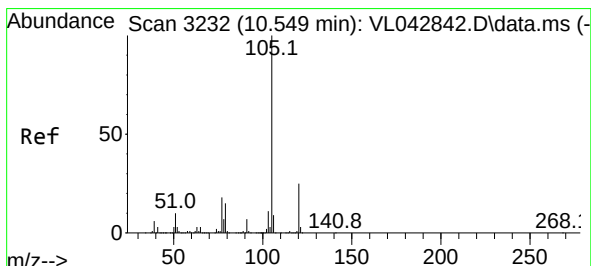
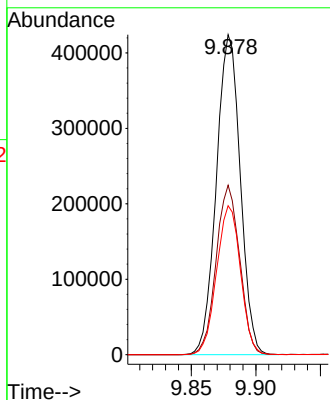
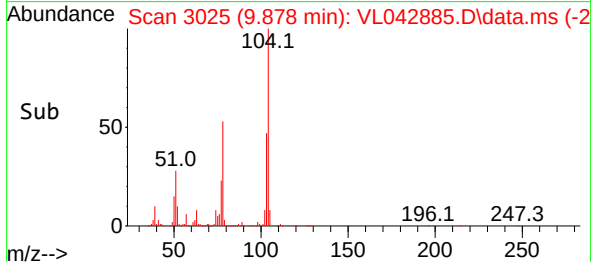
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



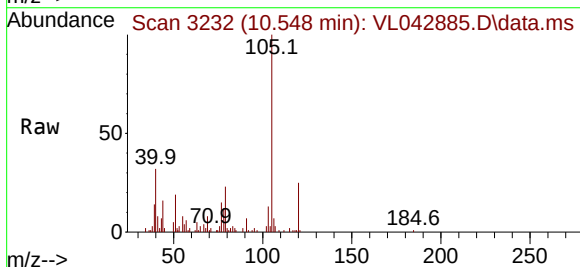
Tgt Ion:104 Resp: 545870
Ion Ratio Lower Upper
104 100
78 52.1 40.6 61.0
103 46.6 37.7 56.5

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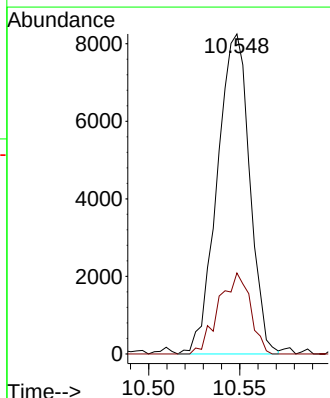
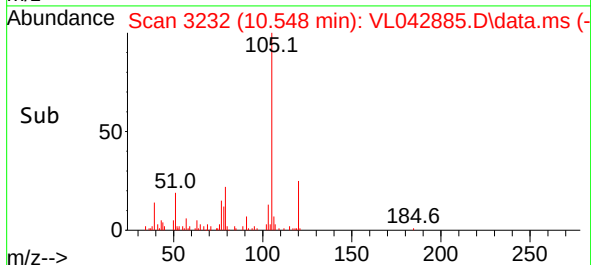
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025

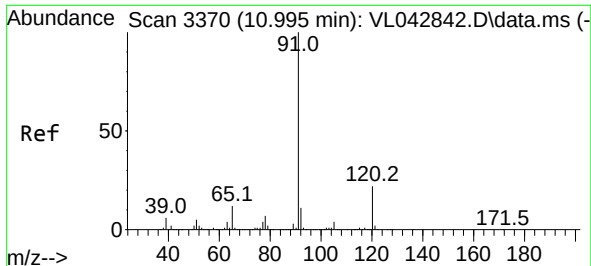


#62
Isopropylbenzene
Concen: 0.165 ppbv
RT: 10.548 min Scan# 3232
Delta R.T. -0.000 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04



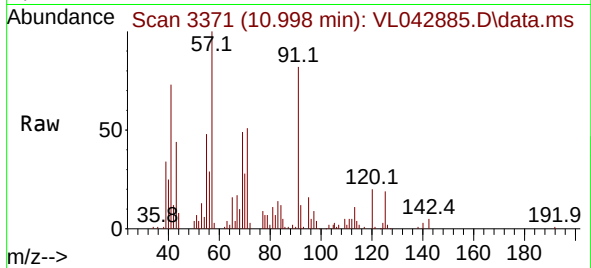
Tgt Ion:105 Resp: 10221
Ion Ratio Lower Upper
105 100
120 24.5 20.6 30.8





#64
n-propylbenzene
Concen: 0.189 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

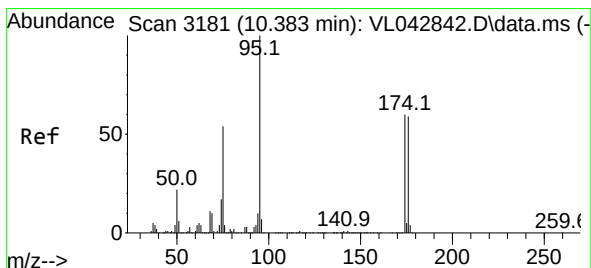
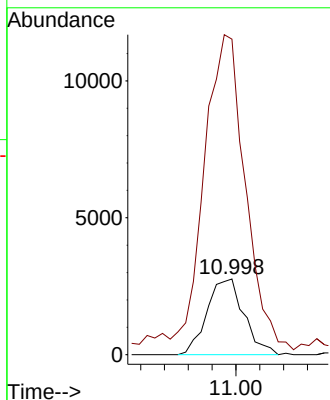
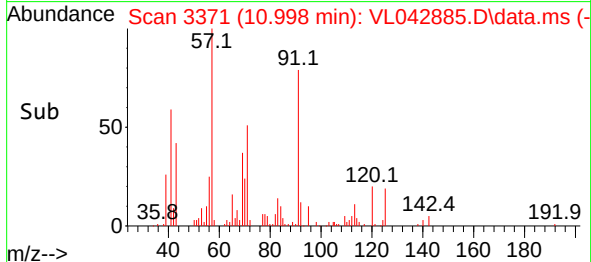
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion: 120 Resp: 2984
Ion Ratio Lower Upper
120 100
91 526.5 375.8 563.6

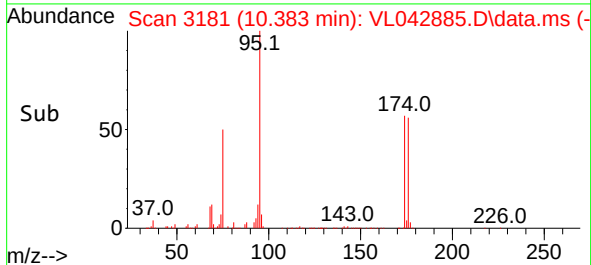
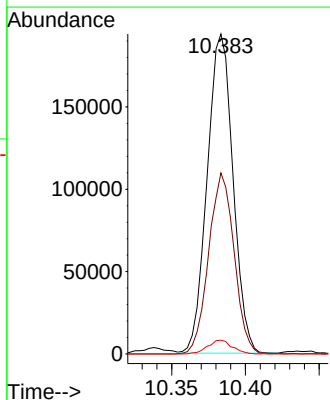
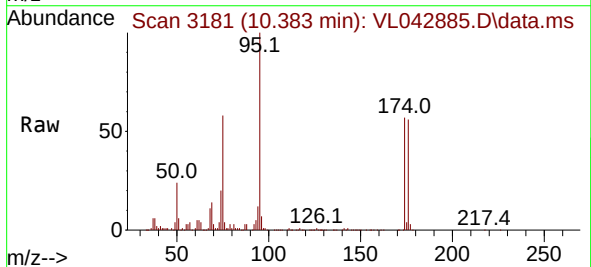
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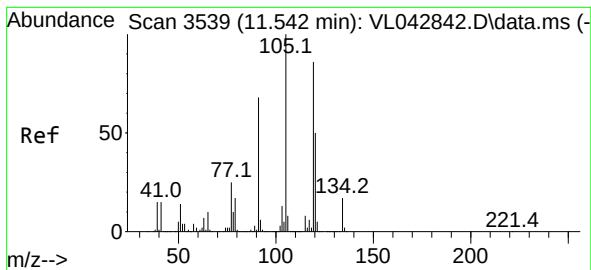
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.317 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. -0.000 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

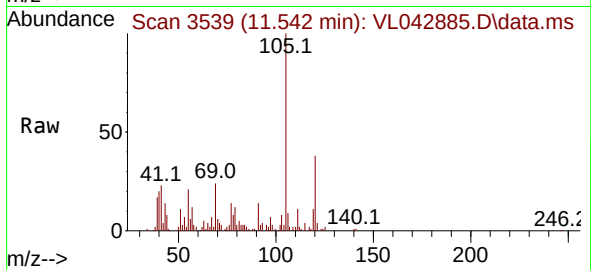
Tgt Ion: 95 Resp: 235935
Ion Ratio Lower Upper
95 100
174 55.9 48.4 72.6
175 4.1 3.8 5.8





#74
1,2,4-Trimethylbenzene
Concen: 0.364 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.000 min
Lab File: VL042885.D
Acq: 26 Aug 2025 15:04

Instrument : MSVOA_L
ClientSampleId : SV1DUP



Tgt Ion:	105	Resp:	17454
Ion Ratio	Lower	Upper	
105	100		
120	37.9	39.8	59.6
91	12.4	54.2	81.4
77	10.5	19.8	29.6

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

