

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042909.D
 Acq On : 08 Sep 2025 18:21
 Operator : SY/MD
 Sample : Q3052-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:58:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	139372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	343291	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	289088	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	215345	9.933	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9893	0.484	ppbv	95
3) Chlorodifluoromethane	1.473	51	23114	1.024	ppbv	92
4) Chloromethane	1.528	50	4233	0.514	ppbv	94
9) Propene	1.479	41	7413	0.760	ppbv	95
11) Trichlorofluoromethane	1.874	101	4746	0.236	ppbv	93
13) Ethanol	1.719	45	15707	17.618	ppbv	100
15) Acetone	1.832	43	73089	3.964	ppbv	95
19) Isopropyl Alcohol	1.884	45	24154	2.193	ppbv #	44
20) Methylene Chloride	2.059	84	6484	0.840	ppbv	86
23) Vinyl Acetate	2.450	43	11529	0.455	ppbv #	91
26) Hexane	2.823	57	13897	0.675	ppbv #	41
34) 2-Butanone	2.557	43	9059	0.391	ppbv	95
35) Carbon Tetrachloride	3.755	117	2231m	0.094	ppbv	
36) Benzene	3.648	78	8823	0.268	ppbv #	91
44) 2,2,4-Trimethylpentane	4.635	57	10701m	0.192	ppbv	
53) Toluene	6.927	91	16132	0.413	ppbv	94
59) m/p-Xylene	9.529	91	7142m	0.179	ppbv	

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

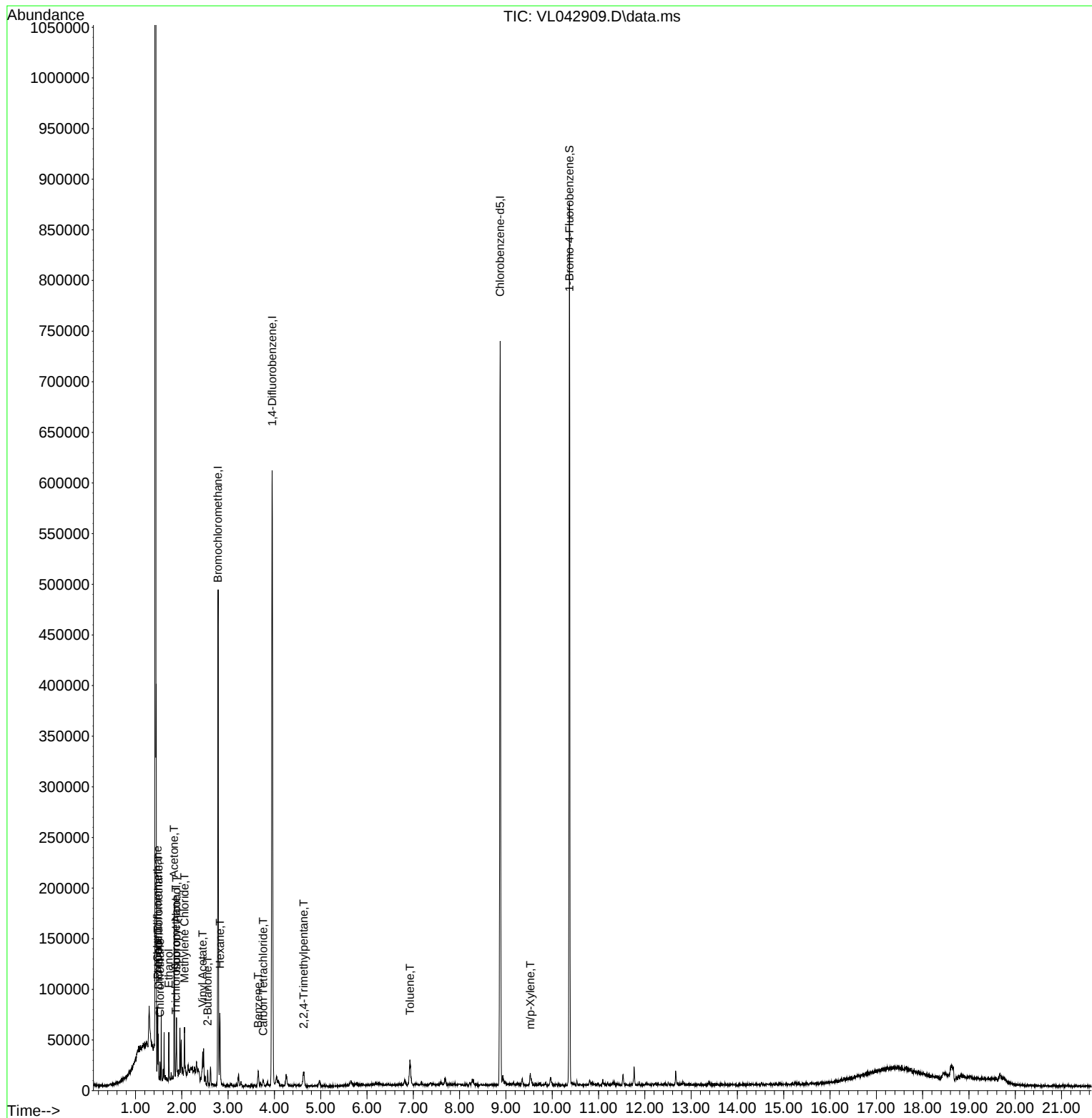
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042909.D
Acq On : 08 Sep 2025 18:21
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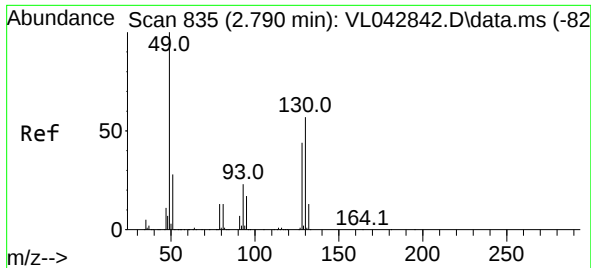
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Sep 09 00:58:55 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Manual Integrations
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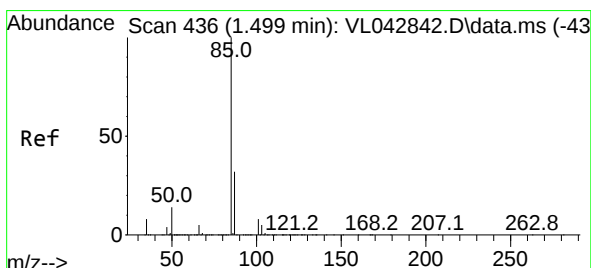
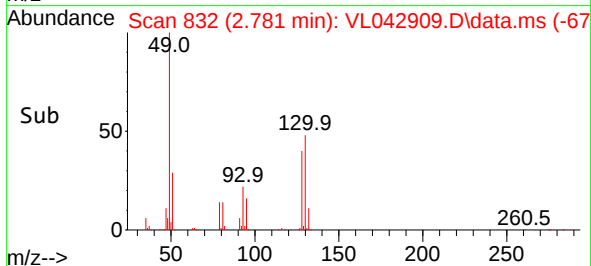
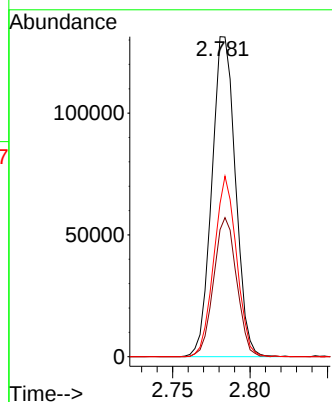
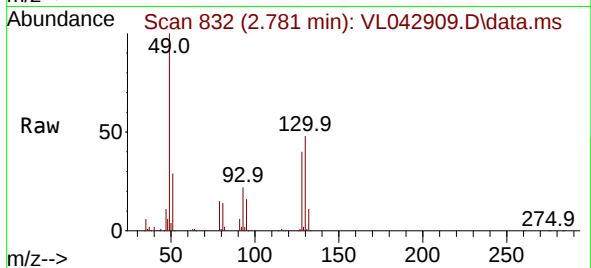
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 49 Resp: 139372
Ion Ratio Lower Upper
49 100
128 42.3 23.7 71.1
130 54.0 30.6 91.6

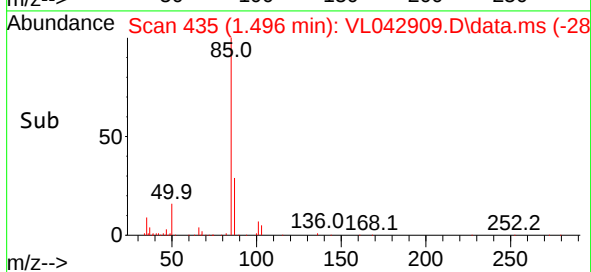
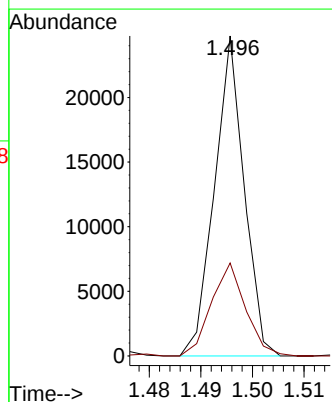
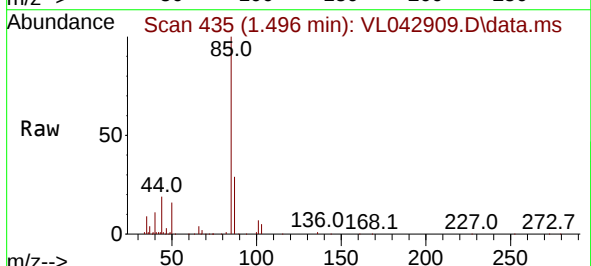
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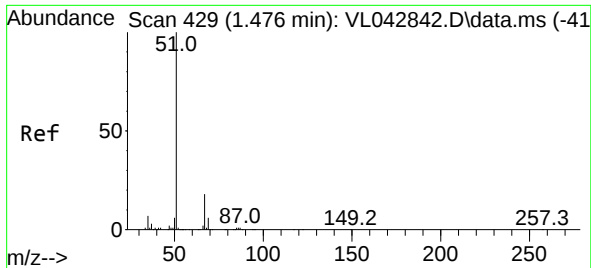
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#2
Dichlorodifluoromethane
Concen: 0.484 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 85 Resp: 9893
Ion Ratio Lower Upper
85 100
87 29.1 25.3 37.9





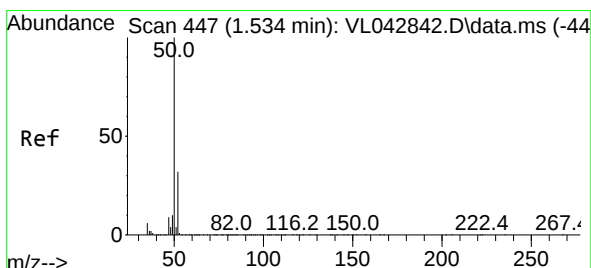
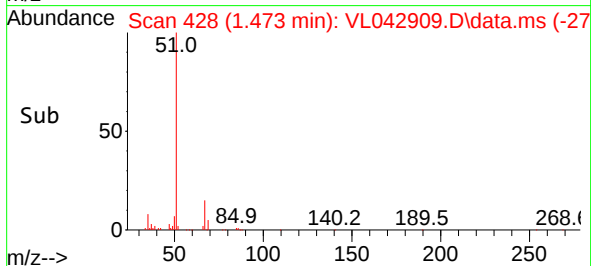
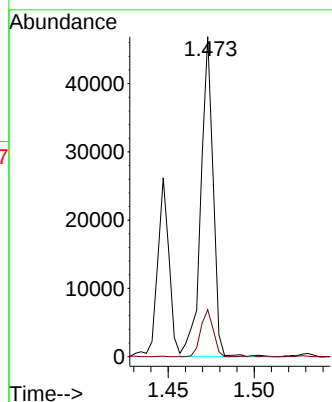
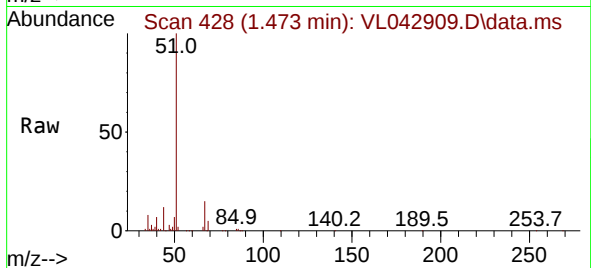
#3
Chlorodifluoromethane
Concen: 1.024 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 23114
Ion Ratio Lower Upper
51 100
67 15.2 14.9 22.3

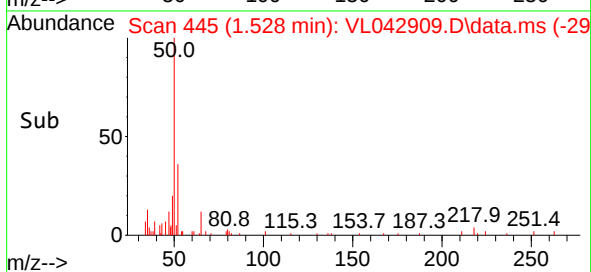
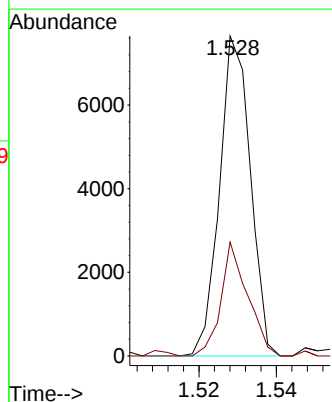
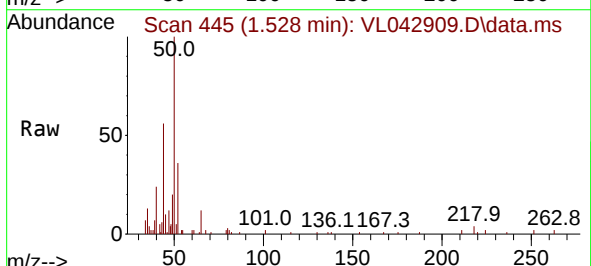
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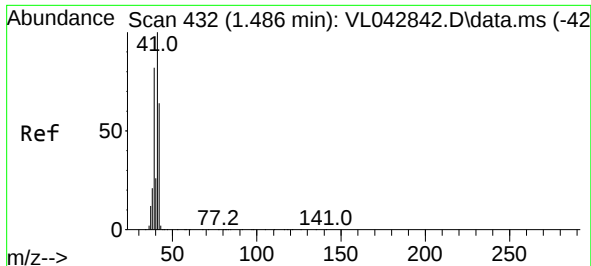
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#4
Chloromethane
Concen: 0.514 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 50 Resp: 4233
Ion Ratio Lower Upper
50 100
52 35.6 25.9 38.9





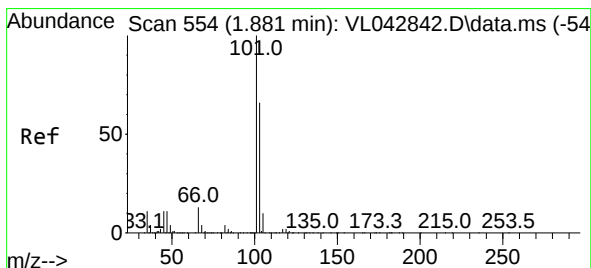
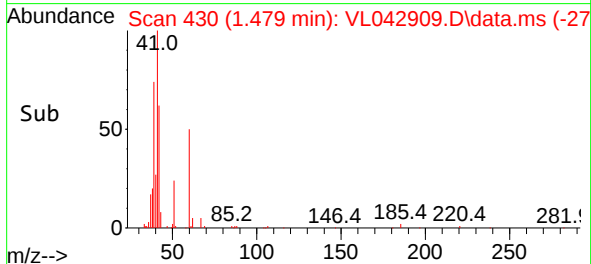
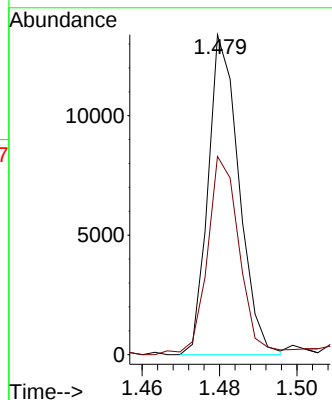
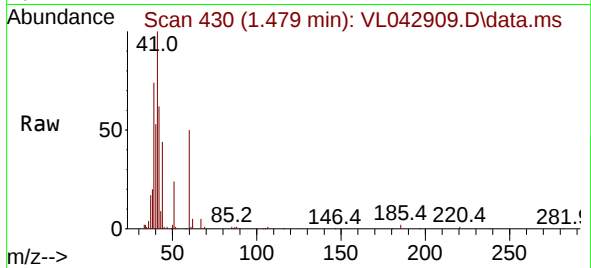
#9
 Propene
 Concen: 0.760 ppbv
 RT: 1.479 min Scan# 411
 Delta R.T. 0.003 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion: 41 Resp: 741
 Ion Ratio Lower Upper
 41 100
 42 70.5 53.0 79.4

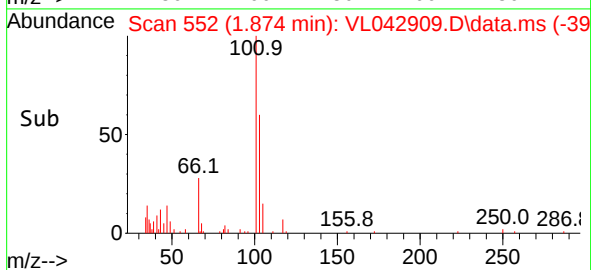
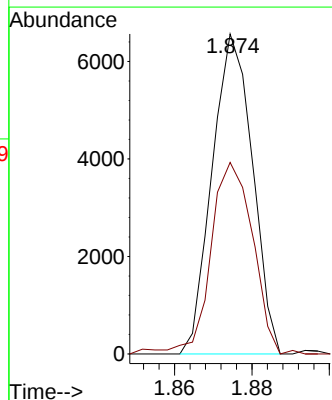
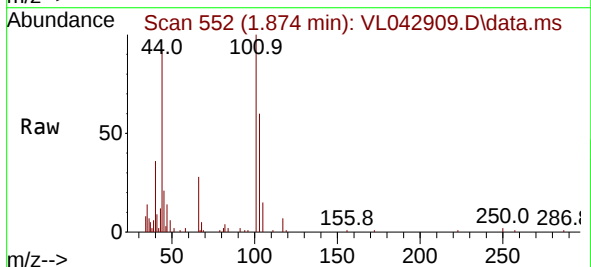
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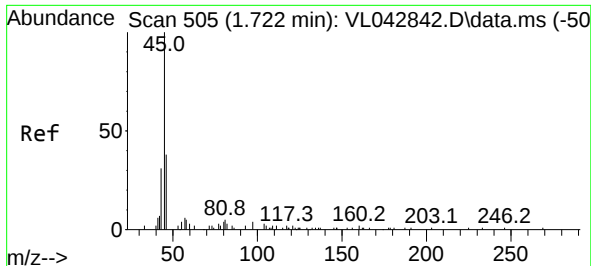
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#11
 Trichlorofluoromethane
 Concen: 0.236 ppbv
 RT: 1.874 min Scan# 552
 Delta R.T. 0.003 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21

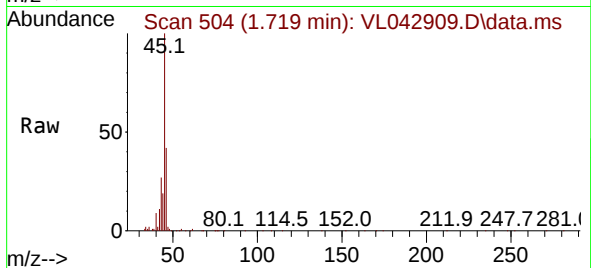
Tgt Ion:101 Resp: 4746
 Ion Ratio Lower Upper
 101 100
 103 59.9 52.5 78.7





#13
Ethanol
Concen: 17.618 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

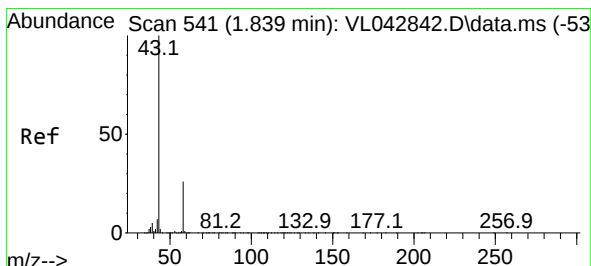
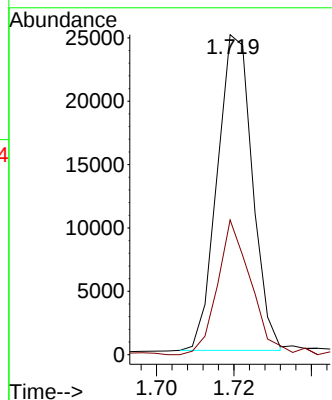
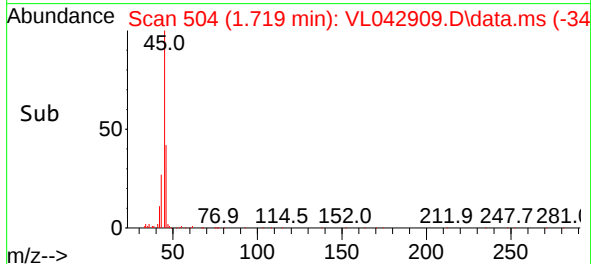
Instrument :
MSVOA_L
ClientSampleId :
OA1



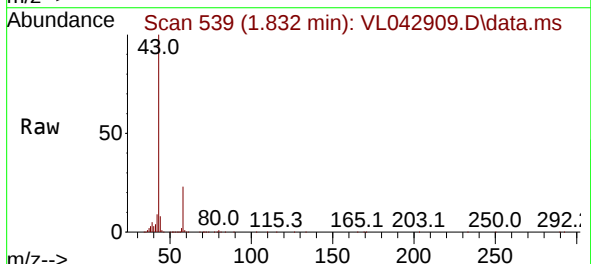
Tgt Ion: 45 Resp: 1570
Ion Ratio Lower Upper
45 100
46 43.4 17.5 69.9

Manual Integrations
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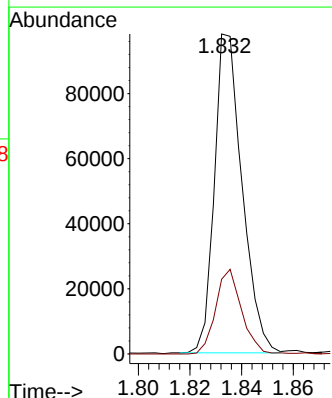
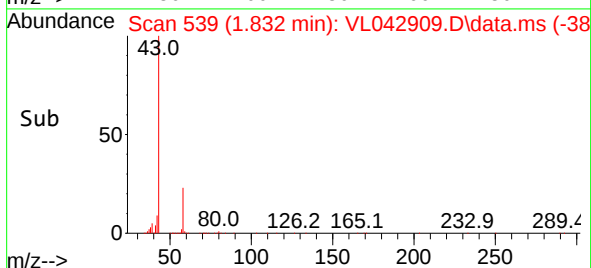
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

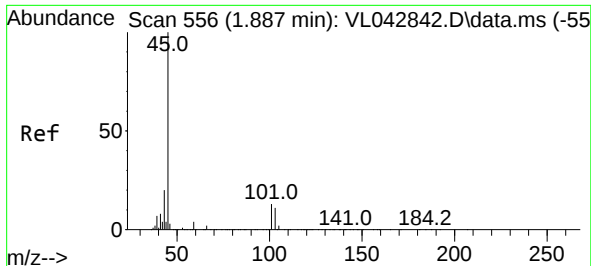


#15
Acetone
Concen: 3.964 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21



Tgt Ion: 43 Resp: 73089
Ion Ratio Lower Upper
43 100
58 25.5 22.4 33.6





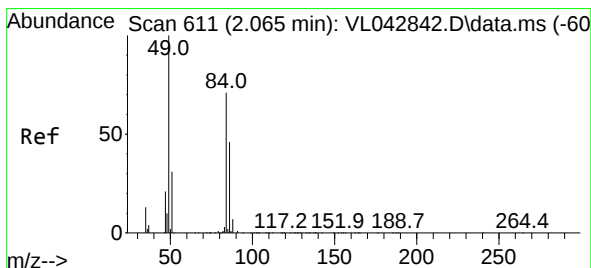
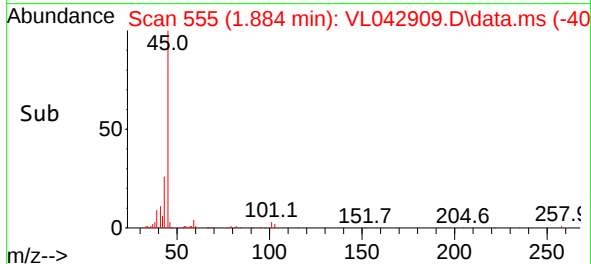
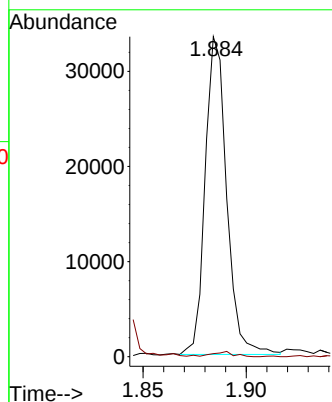
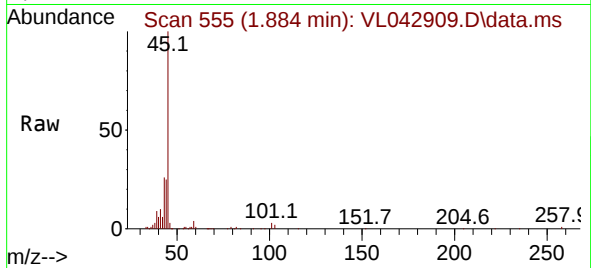
#19
Isopropyl Alcohol
Concen: 2.193 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 24154
Ion Ratio Lower Upper
45 100
58 75.7 32.7 49.13

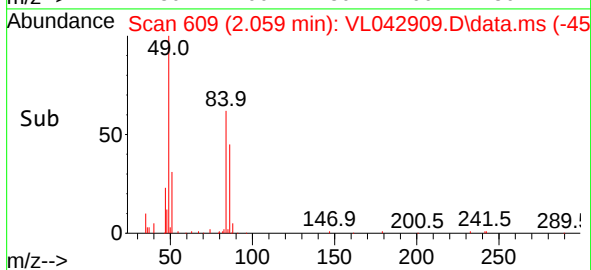
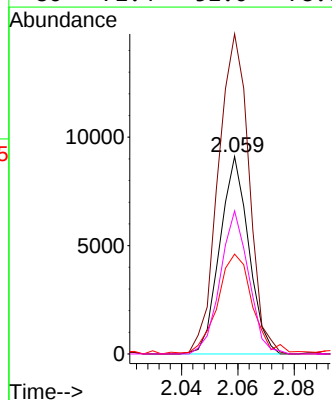
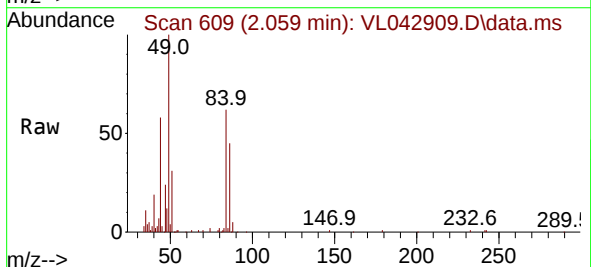
Manual Integrations
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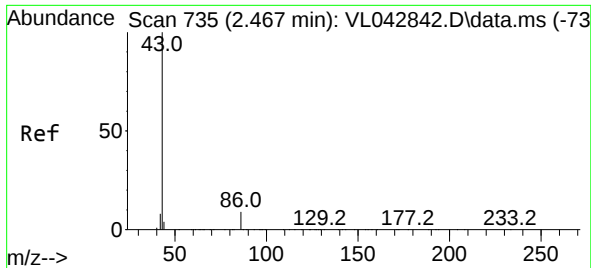
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#20
Methylene Chloride
Concen: 0.840 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 84 Resp: 6484
Ion Ratio Lower Upper
84 100
49 162.1 112.3 168.5
51 50.0 36.0 54.0
86 72.4 52.0 78.0





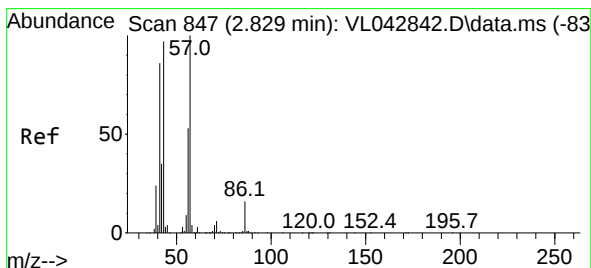
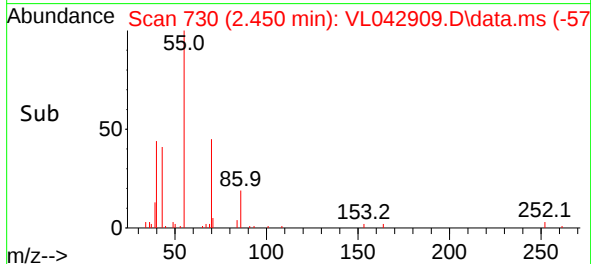
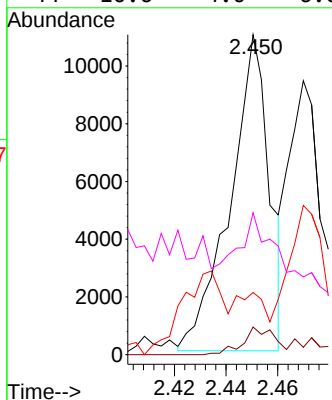
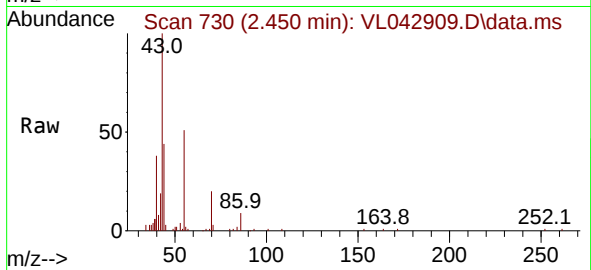
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 Vinyl Acetate
 Concen: 0.455 ppbv
 RT: 2.450 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion: 43	Resp: 11529
Ion Ratio	Lower Upper
43 100	
86 8.9	6.6 9.8
42 4.4	7.0 10.6
44 10.6	4.0 6.0

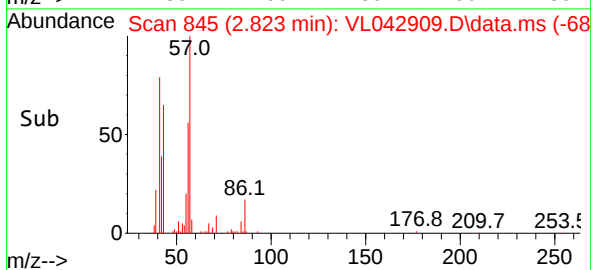
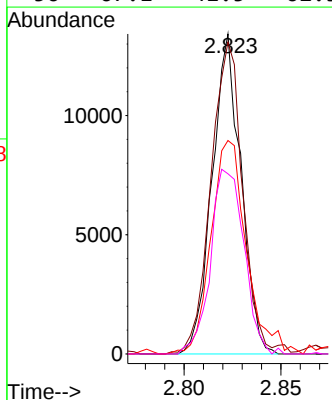
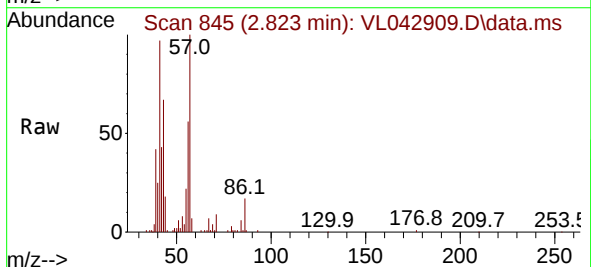
Manual Integrations
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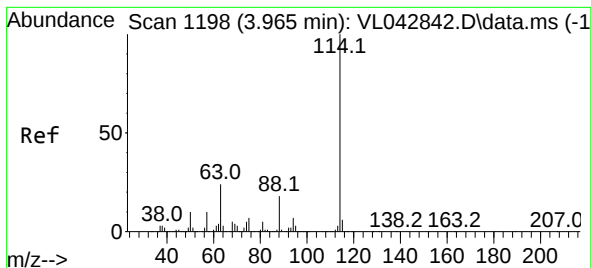
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#26
 Hexane
 Concen: 0.675 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. 0.006 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21

Tgt Ion: 57	Resp: 13897
Ion Ratio	Lower Upper
57 100	
41 111.0	68.6 103.0#
43 82.8	168.5 252.7#
56 67.1	41.5 62.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.010 min

Lab File: VL042909.D

Acq: 08 Sep 2025 18:21

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion:114 Resp: 34329

Ion Ratio Lower Upper

114 100

63 26.7 19.7 29.5

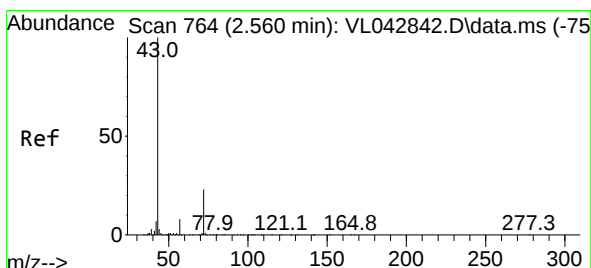
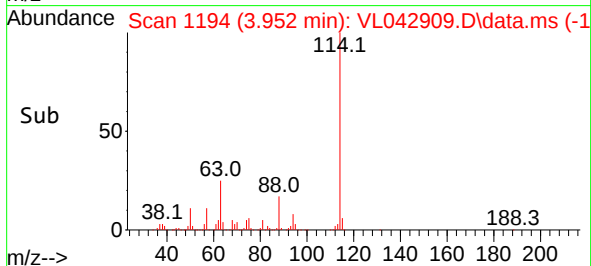
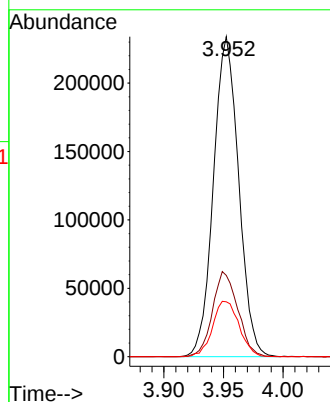
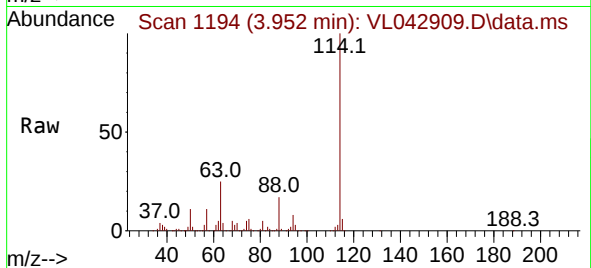
88 18.3 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#34

2-Butanone

Concen: 0.391 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.010 min

Lab File: VL042909.D

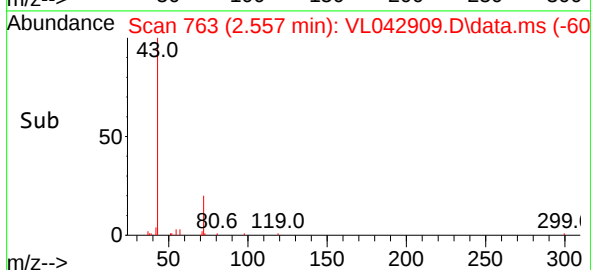
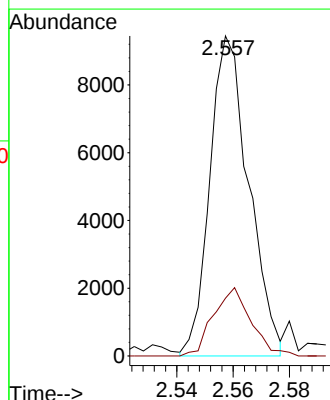
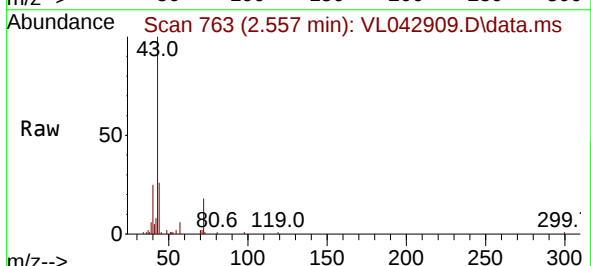
Acq: 08 Sep 2025 18:21

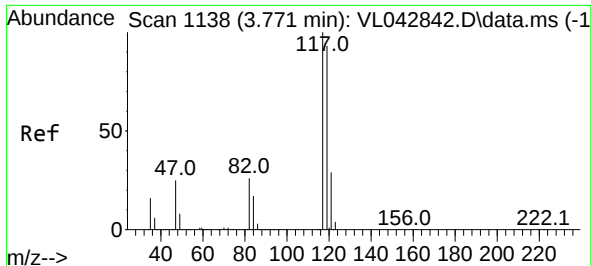
Tgt Ion: 43 Resp: 9059

Ion Ratio Lower Upper

43 100

72 20.7 18.6 28.0





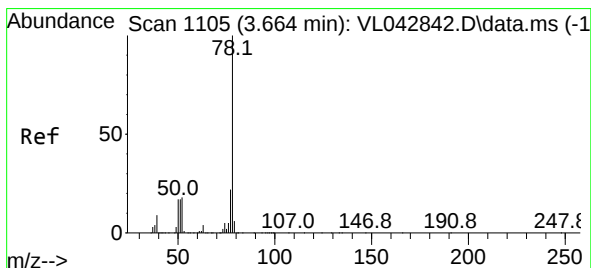
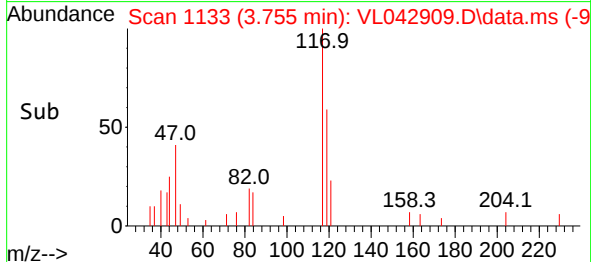
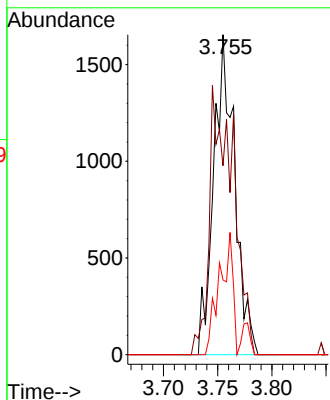
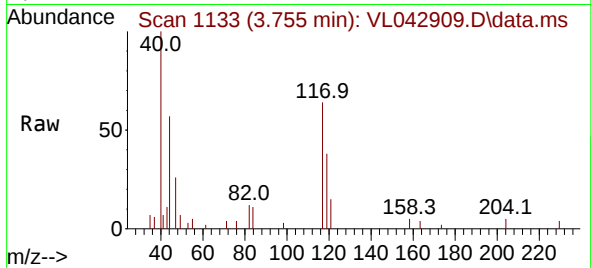
#35
Carbon Tetrachloride
Concen: 0.094 ppbv m
RT: 3.755 min Scan# 1138
Delta R.T. 0.006 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:117 Resp: 223
Ion Ratio Lower Upper
117 100
119 59.0 74.7 112.1
121 23.3 23.2 34.8

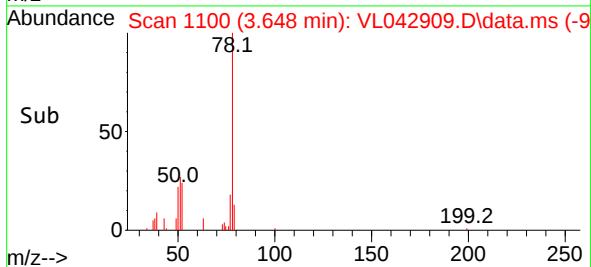
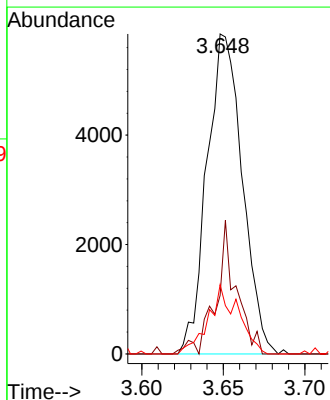
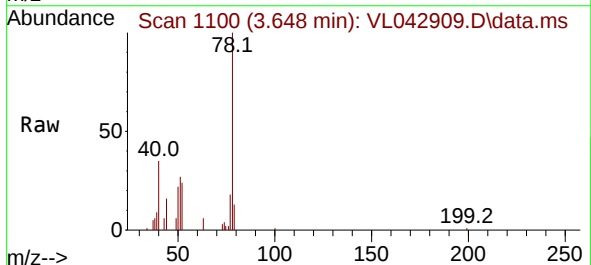
Manual Integrations
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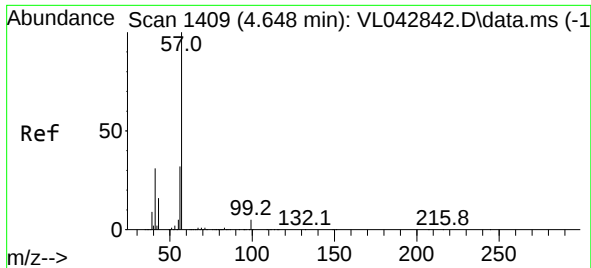
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#36
Benzene
Concen: 0.268 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 78 Resp: 8823
Ion Ratio Lower Upper
78 100
77 18.3 17.7 26.5
50 21.6 13.9 20.9#





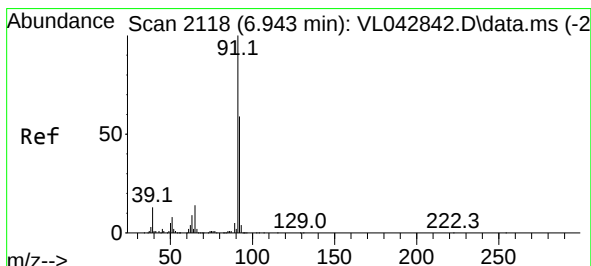
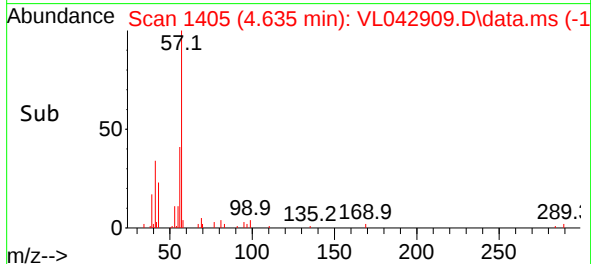
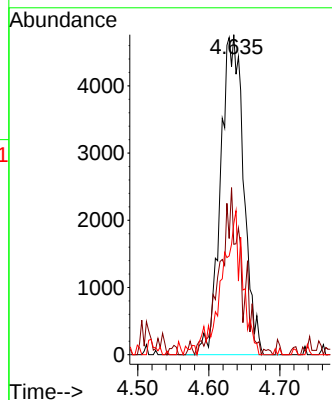
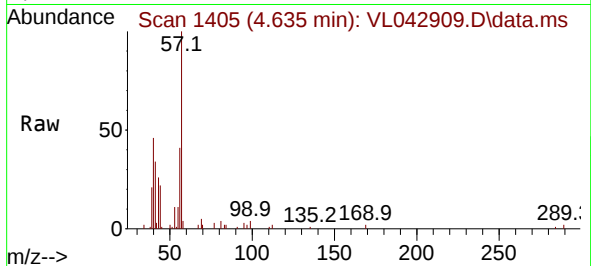
#44
2,2,4-Trimethylpentane
Concen: 0.192 ppbv m
RT: 4.635 min Scan# 1409
Delta R.T. 0.013 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 57 Resp: 1070
Ion Ratio Lower Upper
57 100
41 48.9 24.8 37.2
56 0.0 25.5 38.3

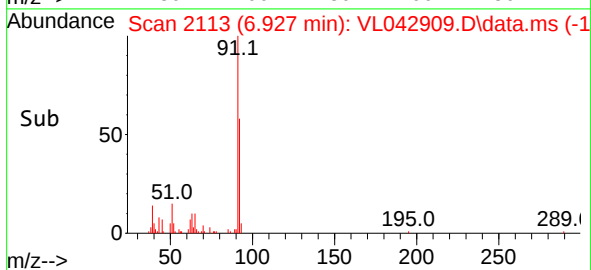
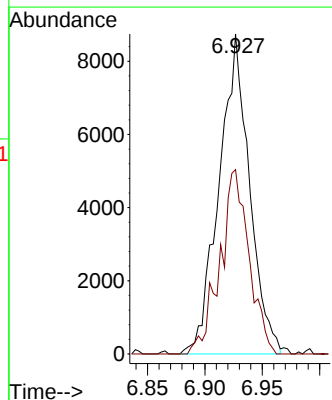
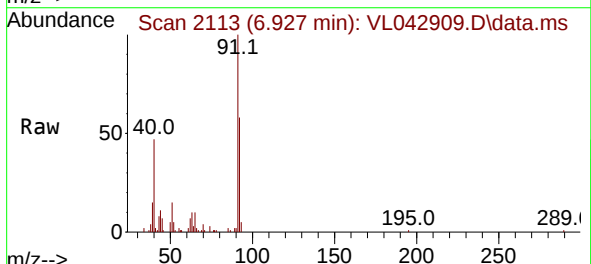
Manual Integrations
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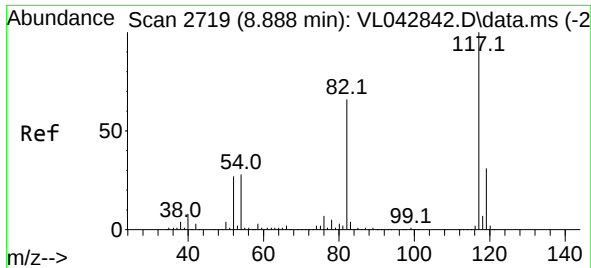
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#53
Toluene
Concen: 0.413 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

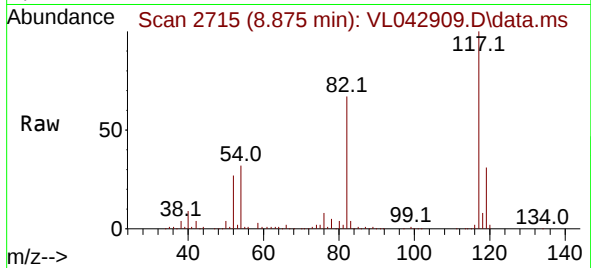
Tgt Ion: 91 Resp: 16132
Ion Ratio Lower Upper
91 100
92 55.0 47.8 71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2175
Delta R.T. 0.006 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

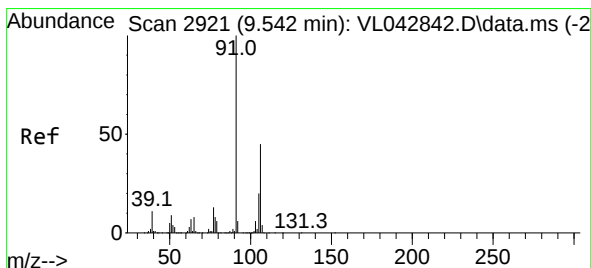
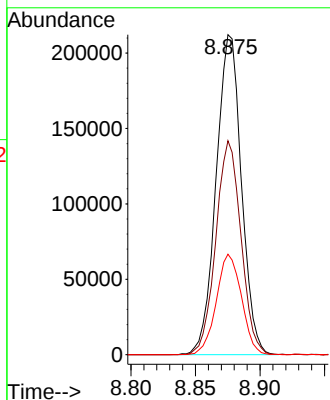
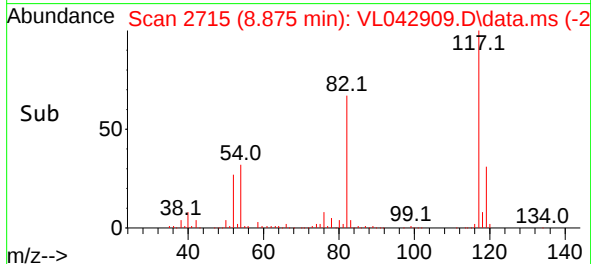
Instrument :
MSVOA_L
ClientSampleId :
OA1



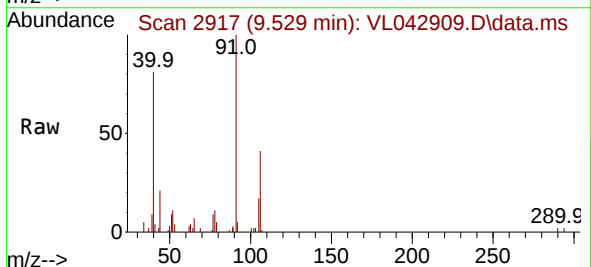
Tgt Ion: 117 Resp: 28908
Ion Ratio Lower Upper
117 100
82 66.6 54.6 81.8
119 31.2 25.9 38.9

Manual Integrations
APPROVED

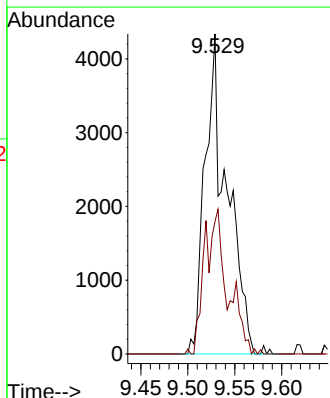
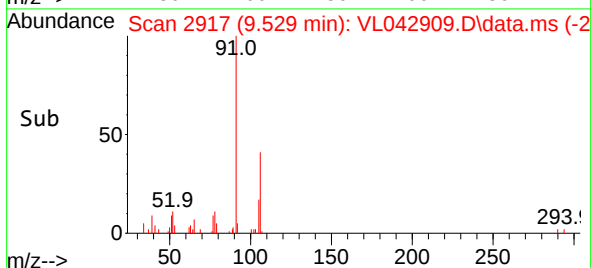
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

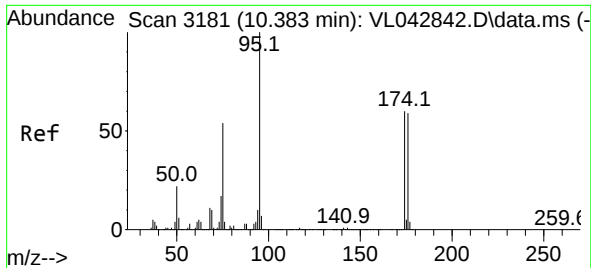


#59
m/p-Xylene
Concen: 0.179 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.010 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21



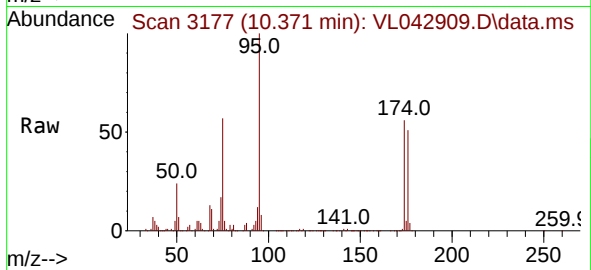
Tgt Ion: 91 Resp: 7142
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.933 ppbv
 RT: 10.371 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



Tgt Ion: 95 Resp: 21534
 Ion Ratio Lower Upper
 95 100
 174 56.4 48.4 72.6
 175 4.2 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

