

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042906.D
 Acq On : 08 Sep 2025 16:33
 Operator : SY/MD
 Sample : Q3038-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Manual Integrations
 APPROVED

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

Quant Time: Sep 09 00:57:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 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	2.780	49	142770	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	358223	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	300604	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	220147	9.765	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	2637	0.126	ppbv	100
3) Chlorodifluoromethane	1.470	51	152267	6.584	ppbv	94
4) Chloromethane	1.528	50	1401	0.166	ppbv	88
13) Ethanol	1.719	45	21534	23.579	ppbv	93
15) Acetone	1.832	43	117769	6.236	ppbv	93
19) Isopropyl Alcohol	1.884	45	124685	11.054	ppbv #	37
20) Methylene Chloride	2.055	84	7932	1.003	ppbv	86
26) Hexane	2.819	57	18740	0.888	ppbv #	46
29) Chloroform	2.845	83	3811	0.127	ppbv	91
34) 2-Butanone	2.554	43	83905	3.469	ppbv	99
36) Benzene	3.651	78	6417	0.187	ppbv #	74
38) Trichloroethene	4.535	130	1571m	0.100	ppbv	
52) Tetrachloroethene	8.218	164	145329	11.711	ppbv	96
53) Toluene	6.923	91	8585	0.211	ppbv	97

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

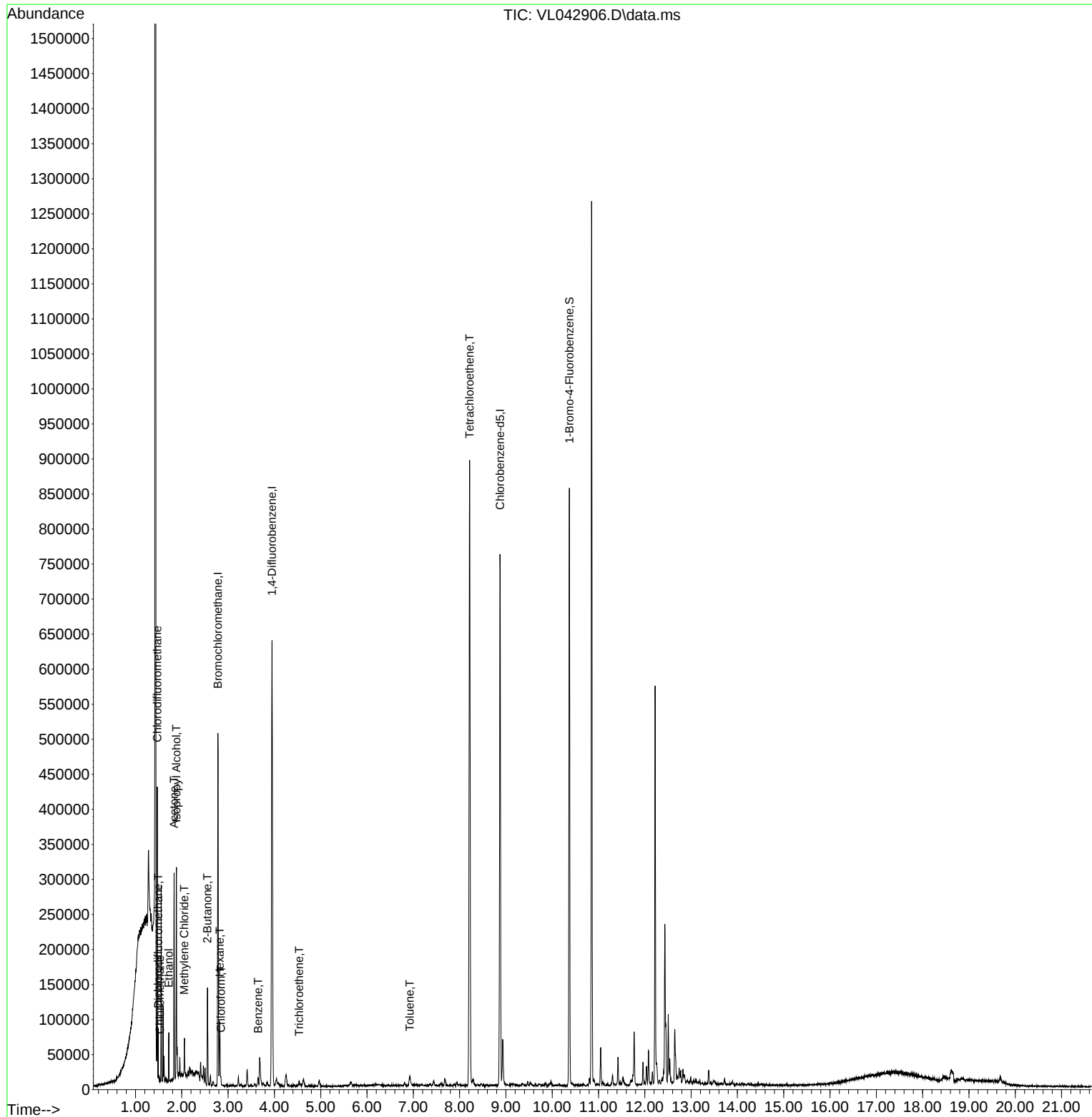
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042906.D
Acq On : 08 Sep 2025 16:33
Operator : SY/MD
Sample : Q3038-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

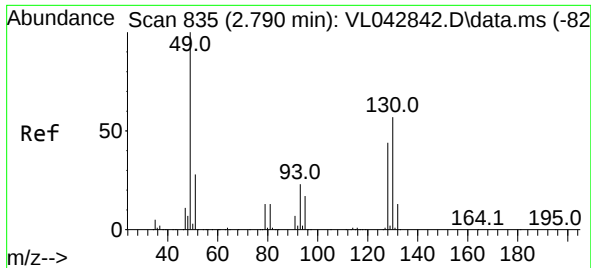
Instrument :
MSVOA_L
ClientSampleId :
SV-1

Quant Time: Sep 09 00:57:47 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
APPROVED

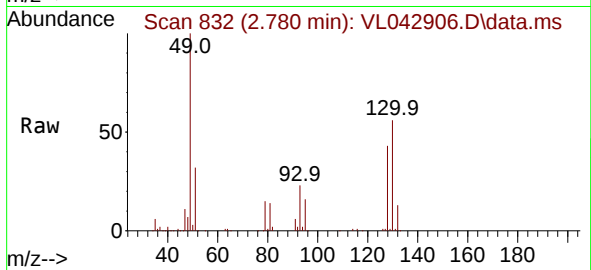
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

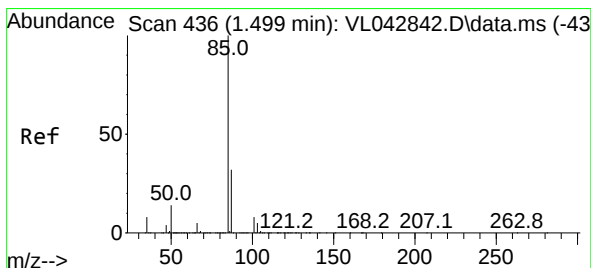
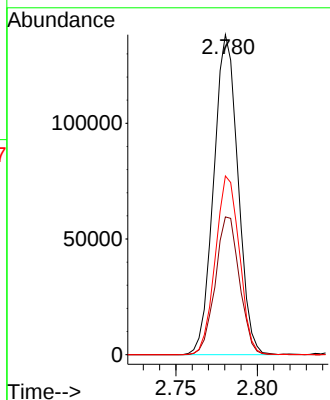
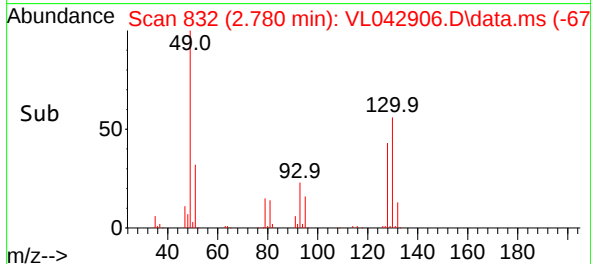
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 49 Resp: 142770
Ion Ratio Lower Upper
49 100
128 43.0 23.7 71.1
130 55.5 30.6 91.6

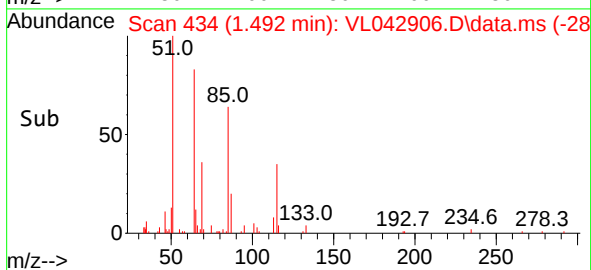
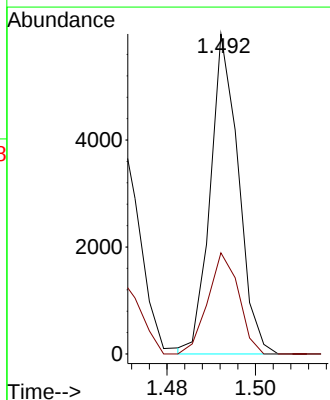
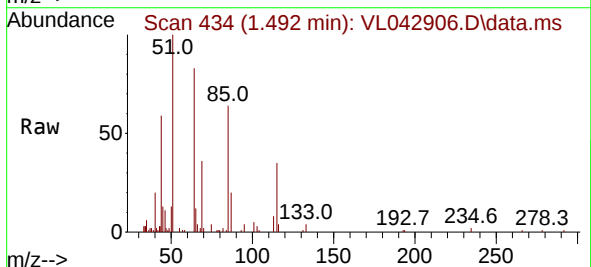
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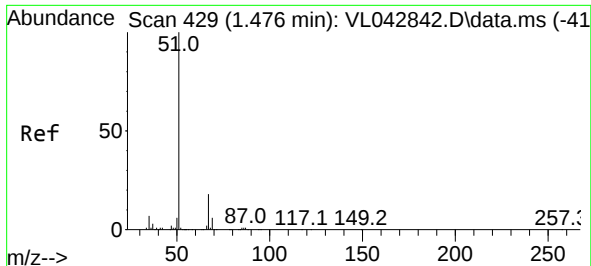
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#2
Dichlorodifluoromethane
Concen: 0.126 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

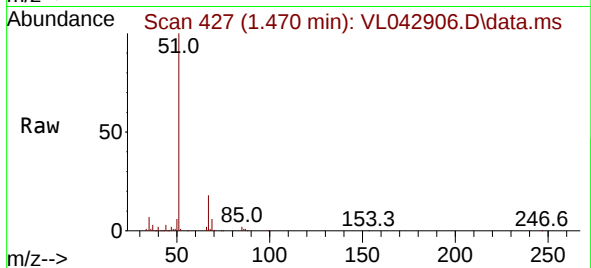
Tgt Ion: 85 Resp: 2637
Ion Ratio Lower Upper
85 100
87 31.6 25.3 37.9





#3
Chlorodifluoromethane
Concen: 6.584 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

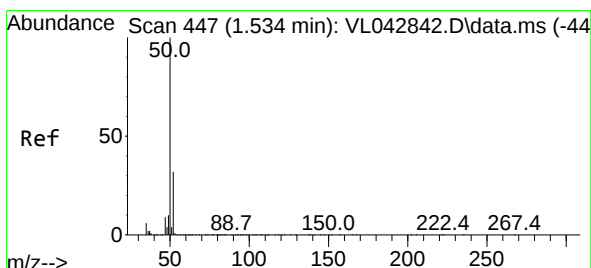
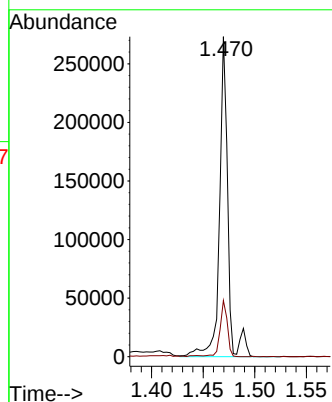
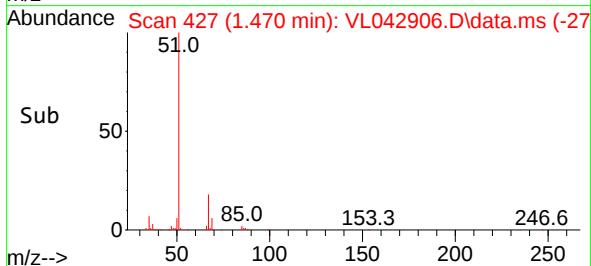
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 51 Resp: 15226
Ion Ratio Lower Upper
51 100
67 15.8 14.9 22.3

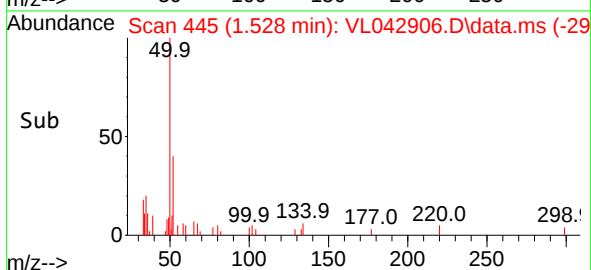
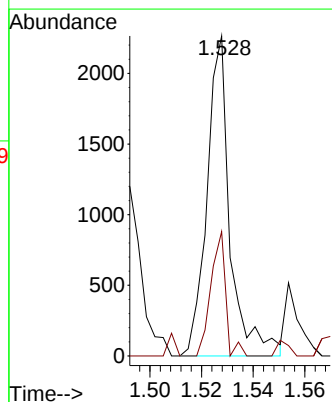
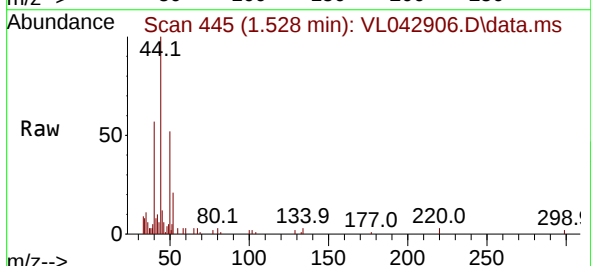
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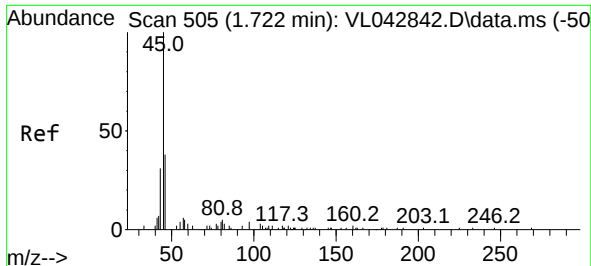
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#4
Chloromethane
Concen: 0.166 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 50 Resp: 1401
Ion Ratio Lower Upper
50 100
52 38.9 25.9 38.9





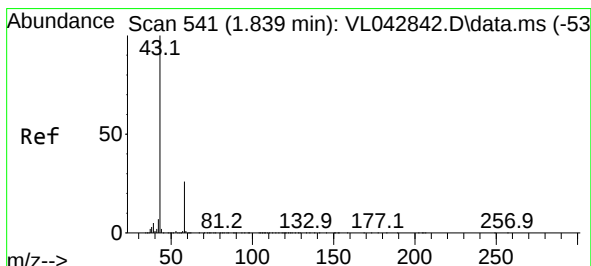
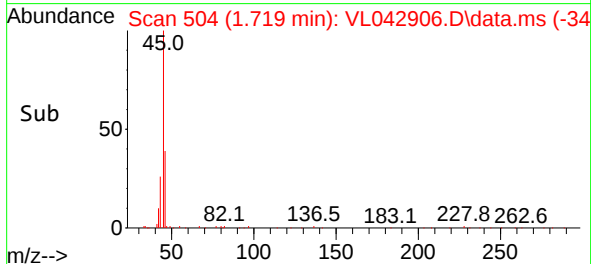
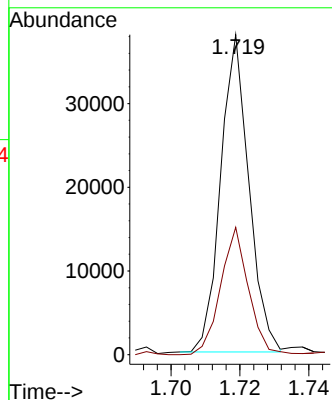
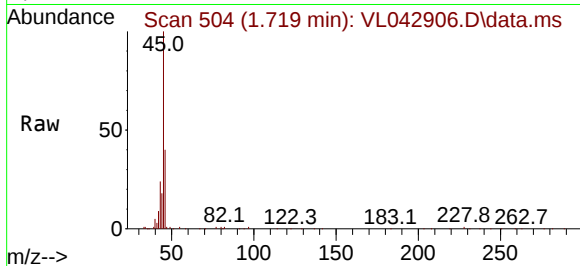
#13
Ethanol
Concen: 23.579 ppbv
RT: 1.719 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 45 Resp: 21534
Ion Ratio Lower Upper
45 100
46 39.5 17.5 69.9

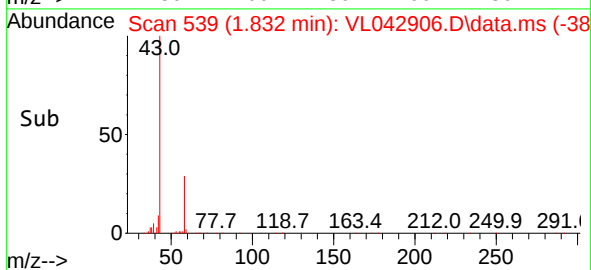
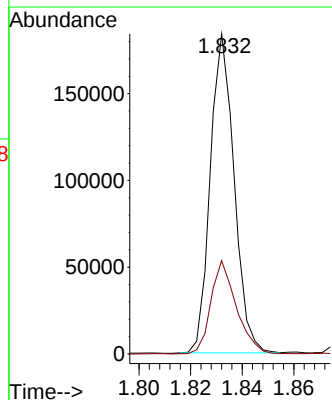
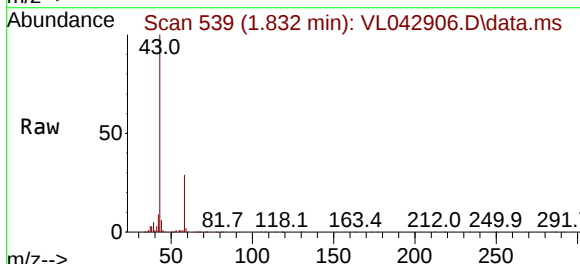
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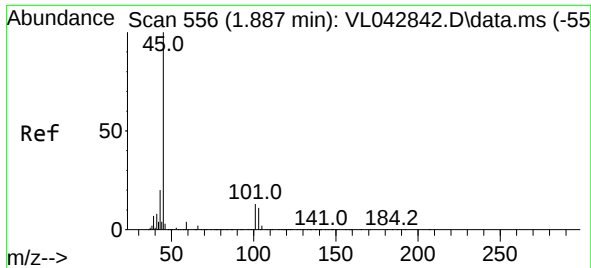
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#15
Acetone
Concen: 6.236 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 43 Resp: 117769
Ion Ratio Lower Upper
43 100
58 31.5 22.4 33.6





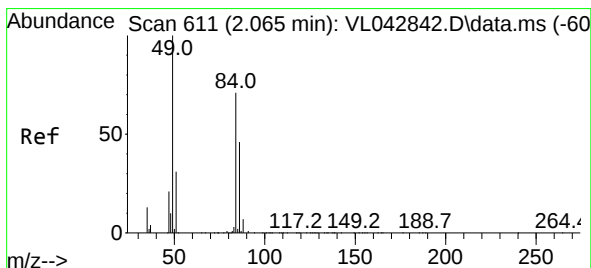
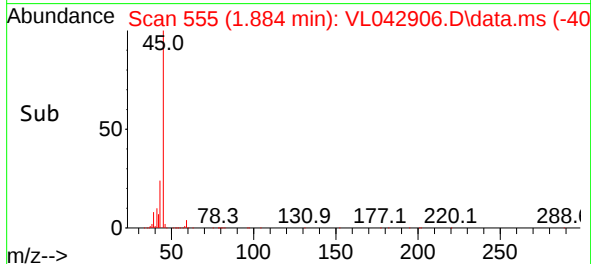
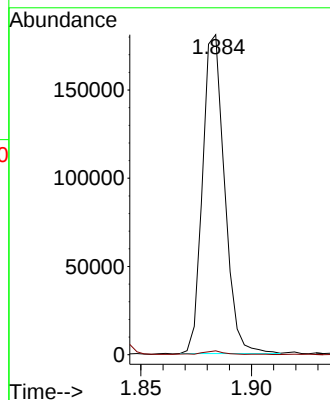
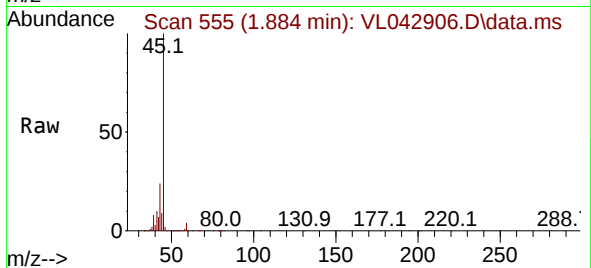
#19
Isopropyl Alcohol
Concen: 11.054 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 45 Resp: 12468
Ion Ratio Lower Upper
45 100
58 1.9 32.7 49.1

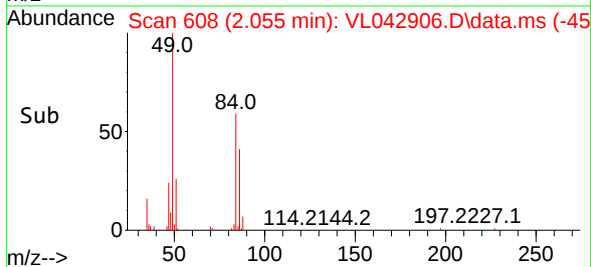
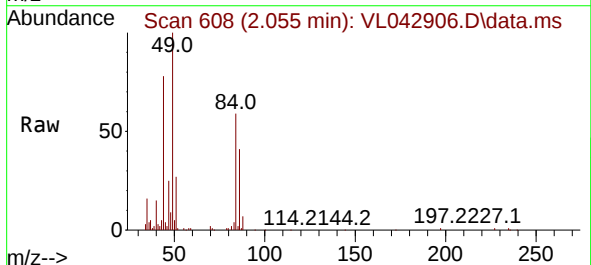
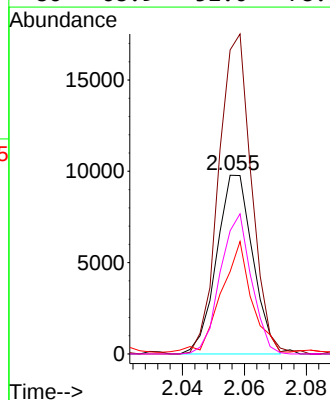
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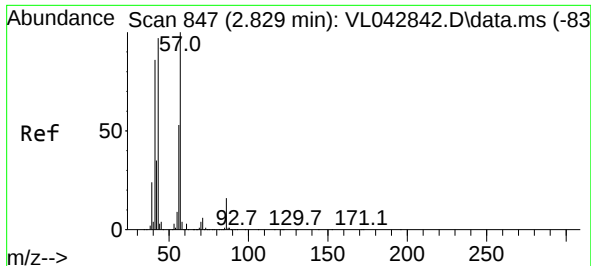
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#20
Methylene Chloride
Concen: 1.003 ppbv
RT: 2.055 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

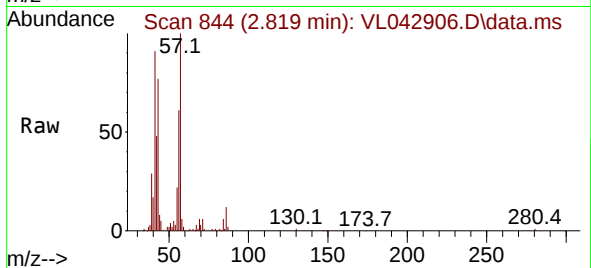
Tgt Ion: 84 Resp: 7932
Ion Ratio Lower Upper
84 100
49 168.1 112.3 168.5
51 44.9 36.0 54.0
86 68.9 52.0 78.0





#26
Hexane
Concen: 0.888 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

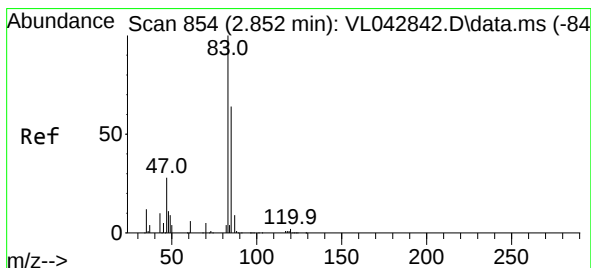
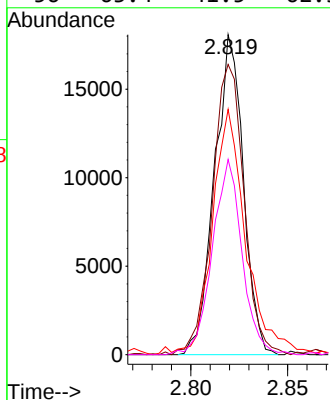
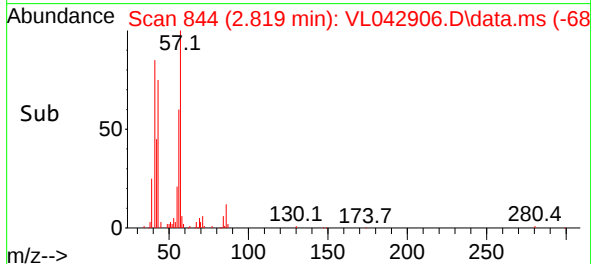
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 57 Resp: 18740
Ion Ratio Lower Upper
57 100
41 101.0 68.6 103.0
43 86.5 168.5 252.7
56 63.4 41.5 62.3

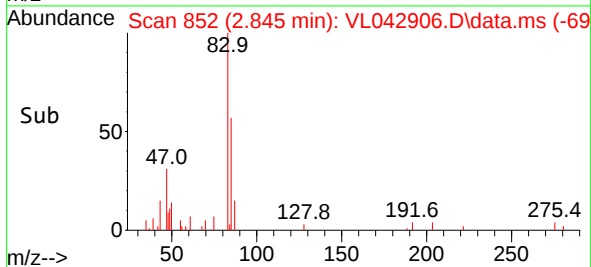
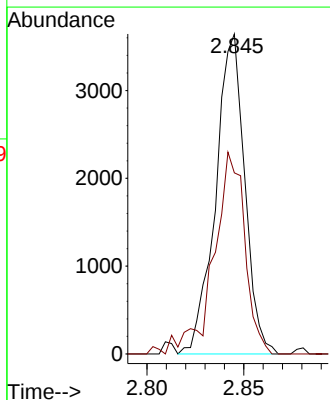
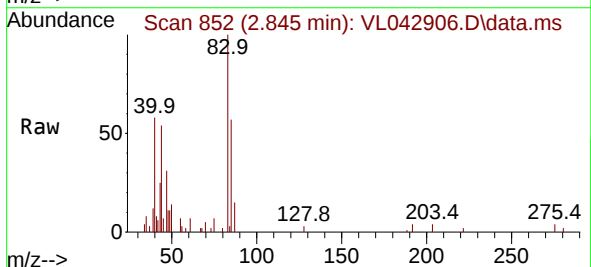
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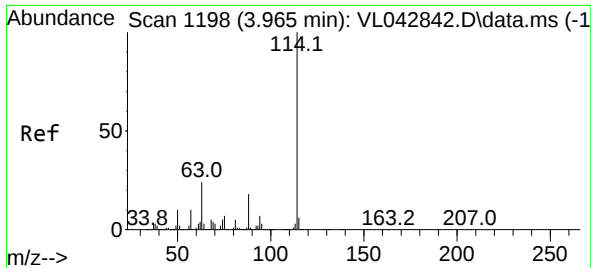
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#29
Chloroform
Concen: 0.127 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.006 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 83 Resp: 3811
Ion Ratio Lower Upper
83 100
85 56.6 51.1 76.7





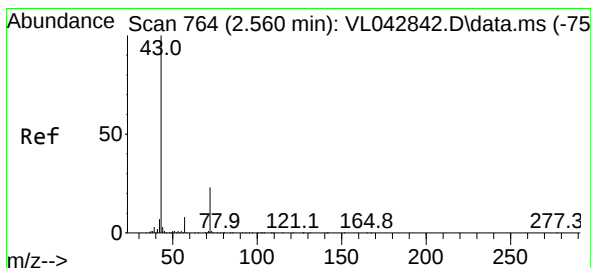
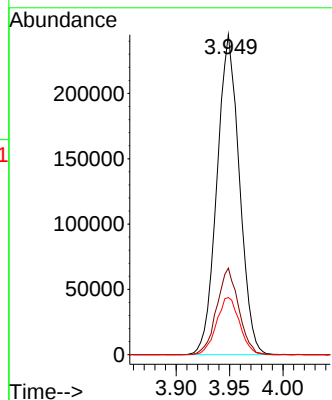
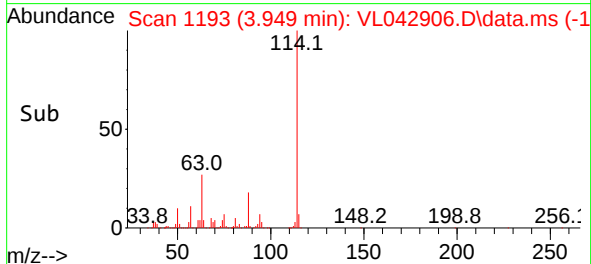
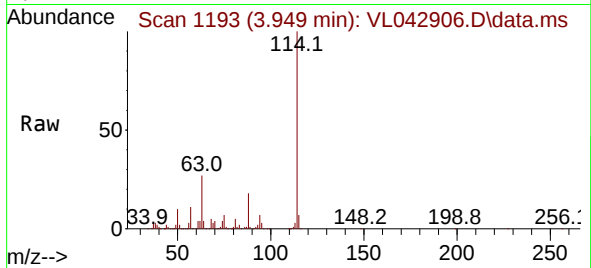
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.006 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion:114 Resp: 35822
Ion Ratio Lower Upper
114 100
63 26.5 19.7 29.5
88 18.4 14.4 21.6

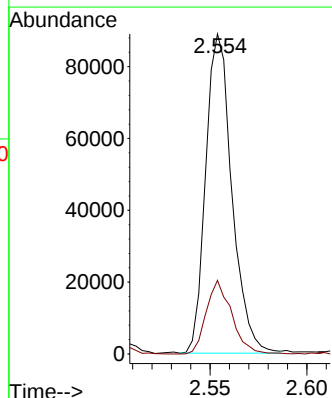
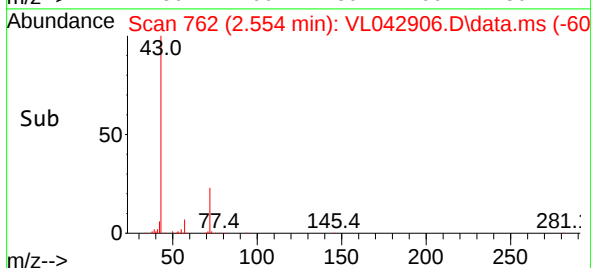
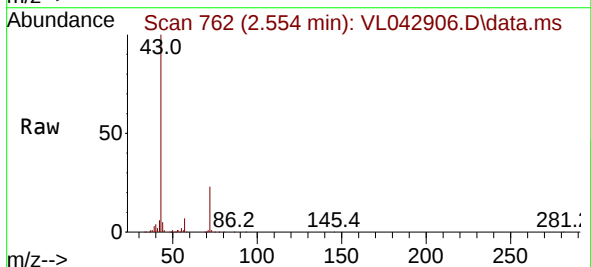
Manual Integrations
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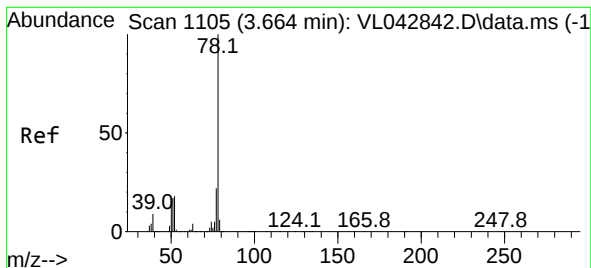
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#34
2-Butanone
Concen: 3.469 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.006 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 43 Resp: 83905
Ion Ratio Lower Upper
43 100
72 22.6 18.6 28.0





#36

Benzene

Concen: 0.187 ppbv

RT: 3.651 min Scan# 1105

Delta R.T. 0.006 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

Instrument :

MSVOA_L

ClientSampleId :

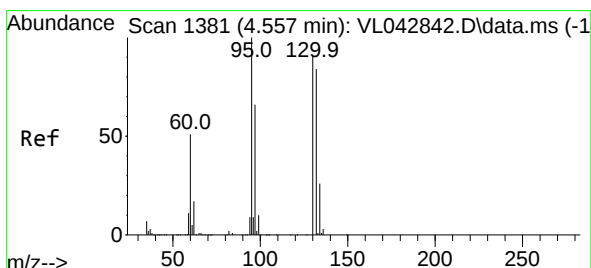
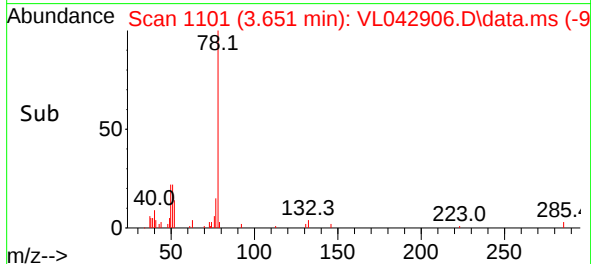
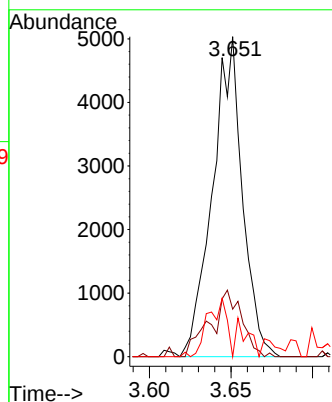
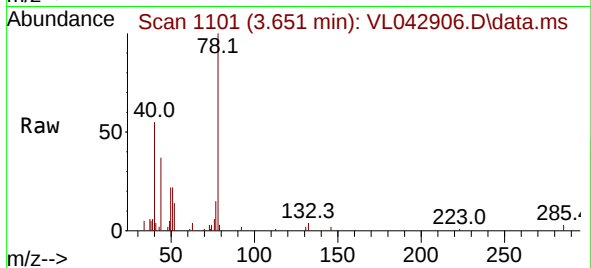
SV-1

Tgt Ion: 78	Resp: 641
Ion Ratio	Lower Upper
78 100	
77 14.9	17.7 26.5
50 0.0	13.9 20.9

Manual Integrations

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



#38

Trichloroethene

Concen: 0.100 ppbv m

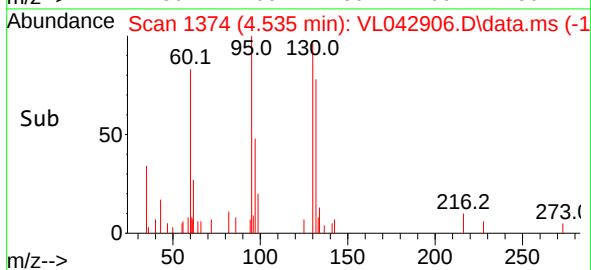
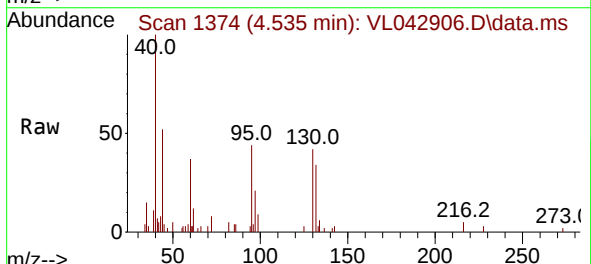
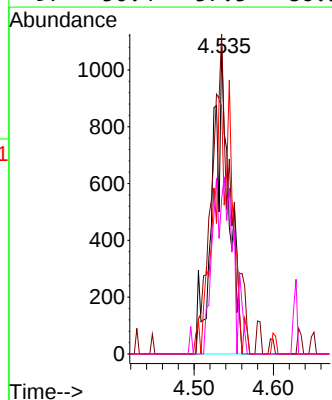
RT: 4.535 min Scan# 1374

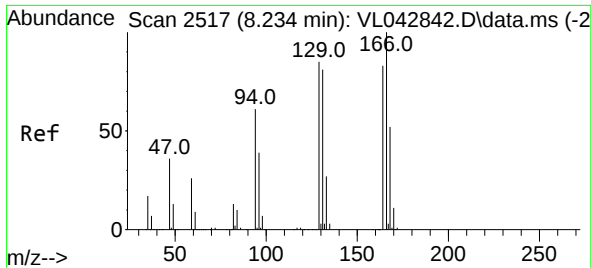
Delta R.T. 0.003 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

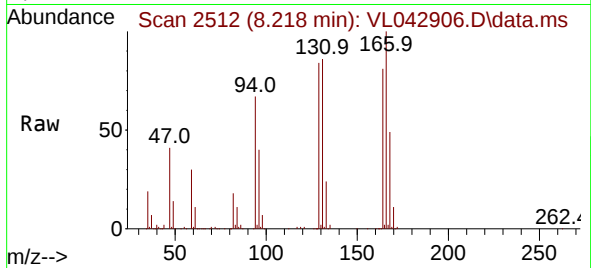
Tgt Ion:130	Resp: 1571
Ion Ratio	Lower Upper
130 100	
95 104.2	87.6 131.4
132 80.8	73.8 110.8
97 50.4	57.5 86.3





#52
Tetrachloroethene
Concen: 11.711 ppbv
RT: 8.218 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

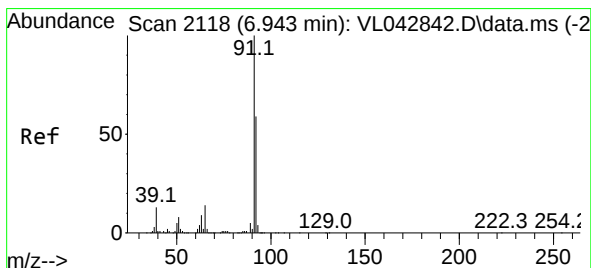
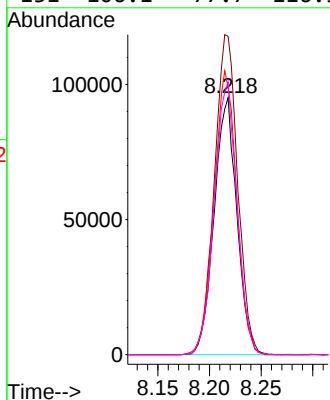
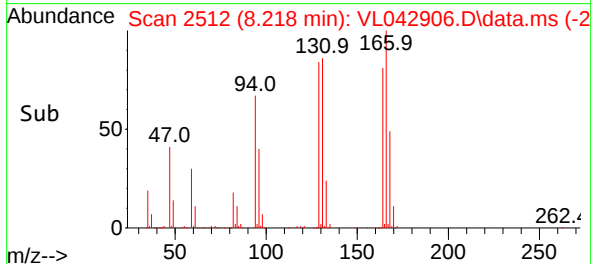
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion:164 Resp: 145329
Ion Ratio Lower Upper
164 100
166 123.8 96.5 144.7
129 103.9 81.8 122.6
131 106.1 77.7 116.5

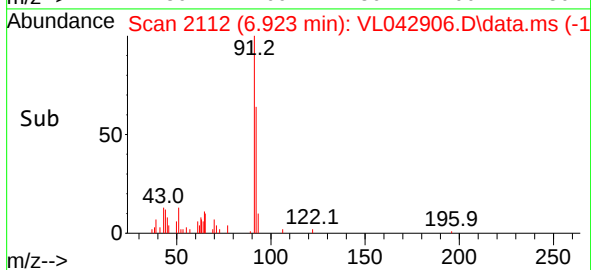
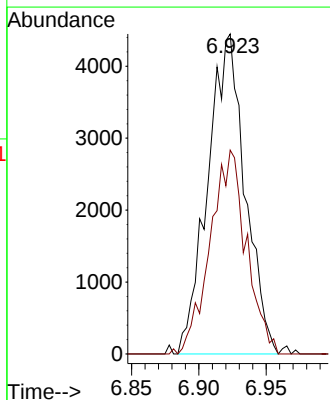
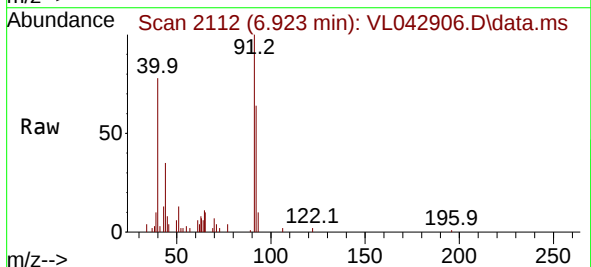
Manual Integrations
APPROVED

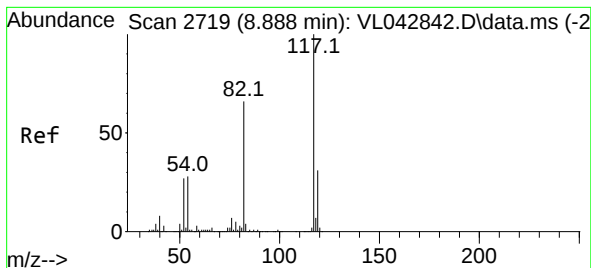
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#53
Toluene
Concen: 0.211 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. 0.009 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 91 Resp: 8585
Ion Ratio Lower Upper
91 100
92 61.6 47.8 71.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.872 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

Instrument :

MSVOA_L

ClientSampleId :

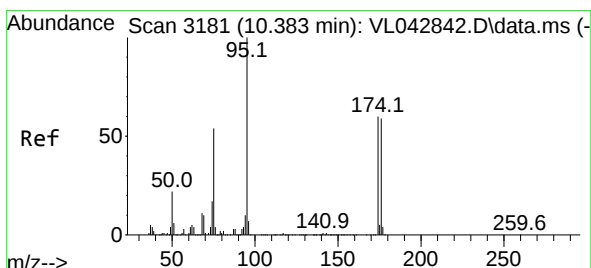
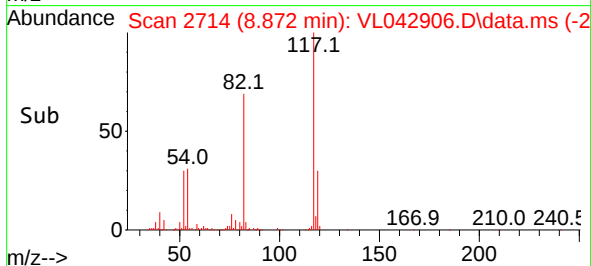
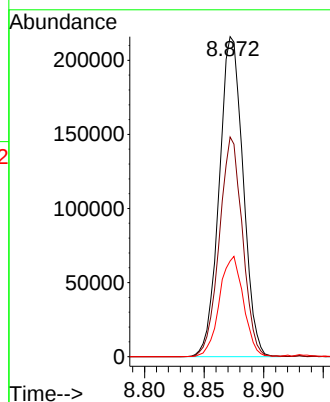
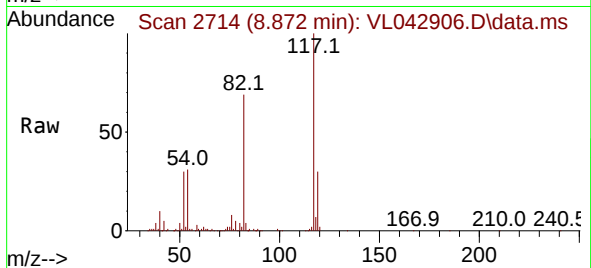
SV-1

Tgt Ion:	117	Resp:	300604
Ion Ratio	Lower	Upper	
117	100		
82	66.8	54.6	81.8
119	31.6	25.9	38.9

Manual Integrations

APPROVED

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



#68

1-Bromo-4-Fluorobenzene

Concen: 9.765 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. 0.006 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

Tgt Ion:	95	Resp:	220147
Ion Ratio	Lower	Upper	
95	100		
174	55.8	48.4	72.6
175	4.4	3.8	5.8

