

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042962.D
 Acq On : 22 Sep 2025 18:04
 Operator : SY/MD
 Sample : Q3112-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:53:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	168176	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.965	114	513006	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	448889	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	337380	10.069	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.700%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.495	85	2659	0.118	ppbv	98
3) Chlorodifluoromethane	1.470	51	59781m	2.120	ppbv	
9) Propene	1.479	41	349498	28.496	ppbv	89
10) Heptane	4.988	43	16949	0.518	ppbv	95
11) Trichlorofluoromethane	1.884	101	893679	40.976	ppbv	96
13) Ethanol	1.725	45	5091	4.279	ppbv #	35
15) Acetone	1.839	43	279146	12.744	ppbv	93
17) tert-Butyl alcohol	2.046	59	18537	0.772	ppbv #	85
19) Isopropyl Alcohol	1.890	45	167495m	12.720	ppbv	
26) Hexane	2.835	57	31200	1.236	ppbv #	38
30) Cyclohexane	3.865	84	3406m	0.161	ppbv	
34) 2-Butanone	2.567	43	11709	0.326	ppbv	93
36) Benzene	3.664	78	33310	0.691	ppbv	97
52) Tetrachloroethene	8.231	164	4881m	0.262	ppbv	
53) Toluene	6.943	91	76794	1.347	ppbv	99
58) Ethyl Benzene	9.357	91	10371	0.141	ppbv	96
59) m/p-Xylene	9.538	91	26248	0.452	ppbv #	100
60) o-Xylene	9.969	91	13169	0.227	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	18035	0.277	ppbv #	67

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

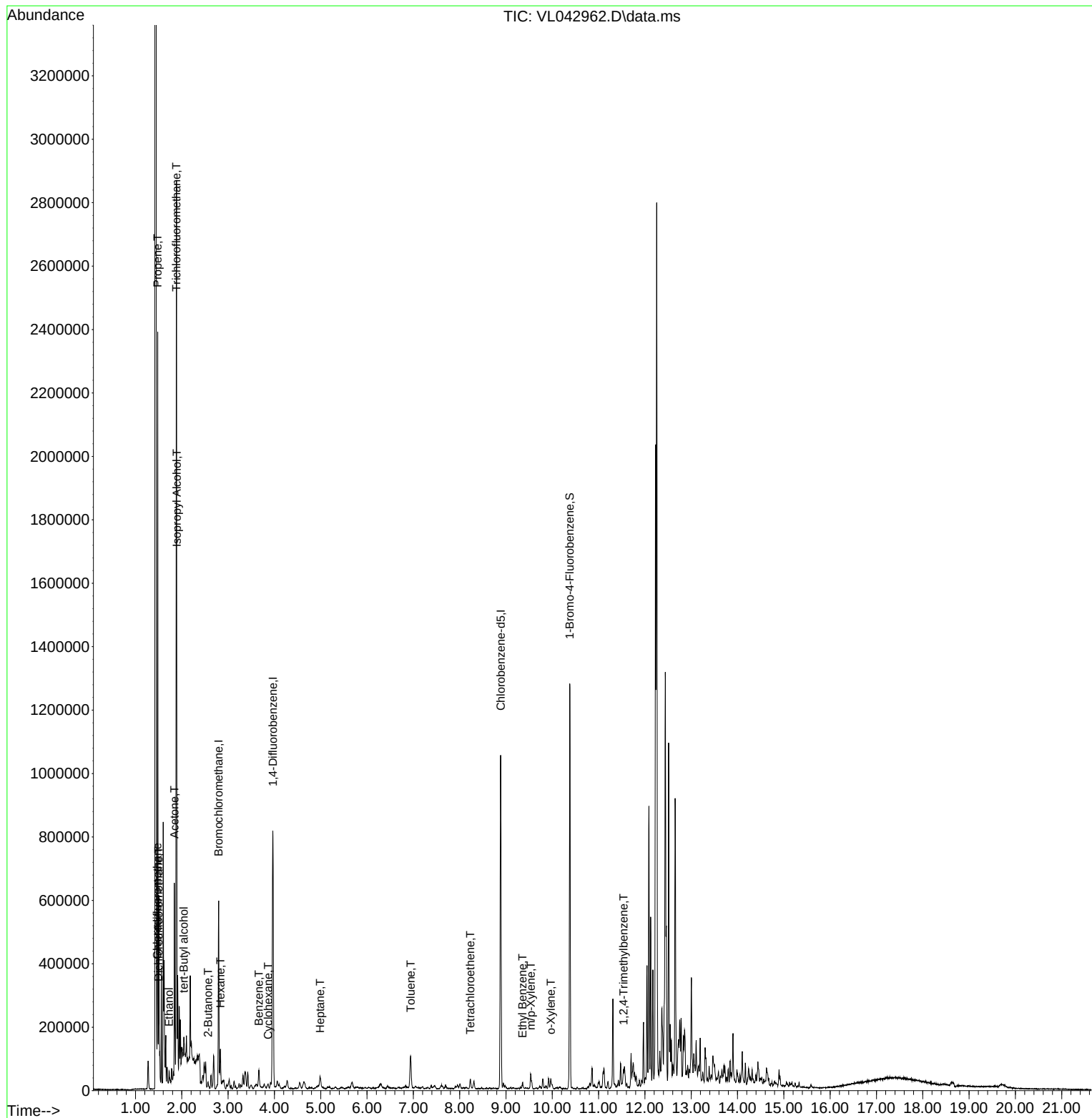
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042962.D
Acq On : 22 Sep 2025 18:04
Operator : SY/MD
Sample : Q3112-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

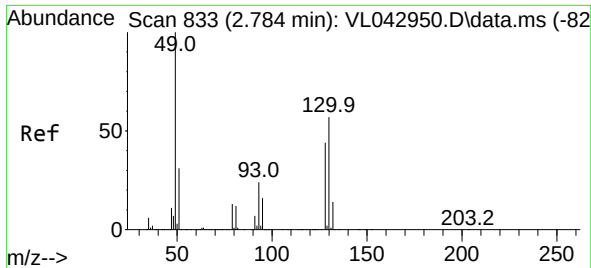
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Sep 23 02:53:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

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APPROVED

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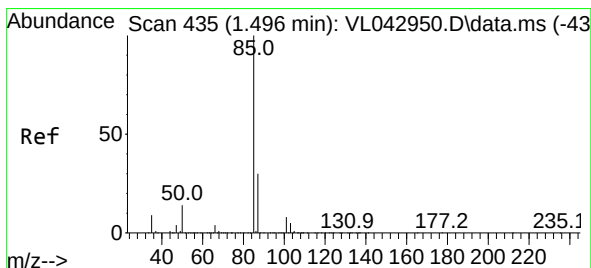
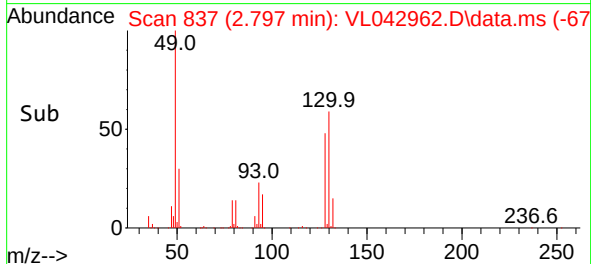
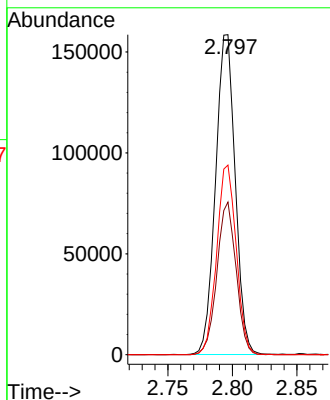
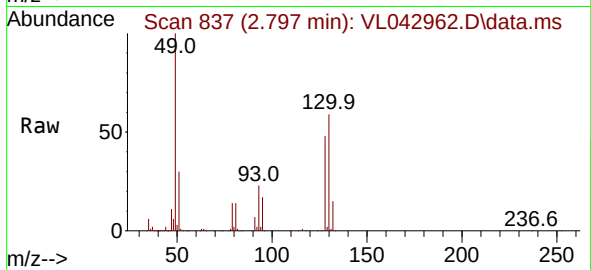
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 168170
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.8
130 58.8 29.1 87.3

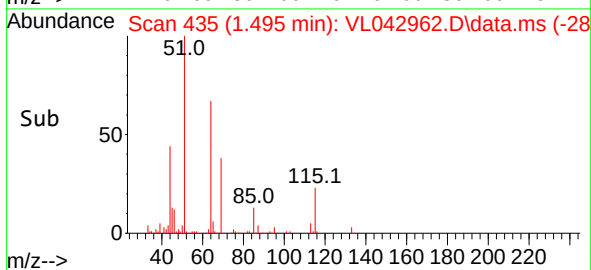
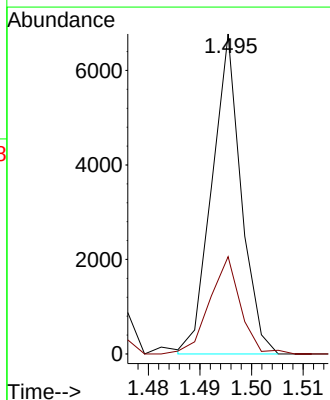
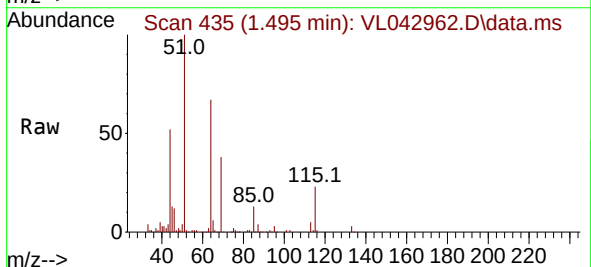
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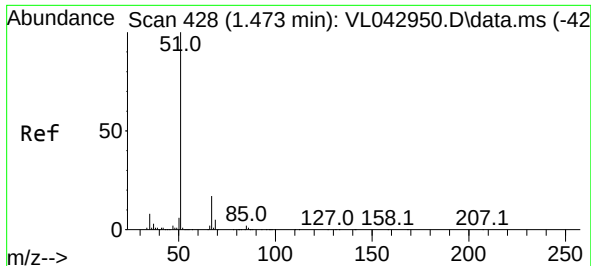
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#2
Dichlorodifluoromethane
Concen: 0.118 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

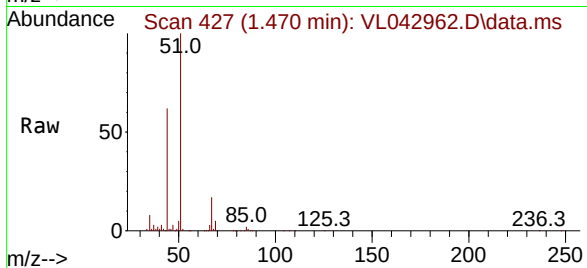
Tgt Ion: 85 Resp: 2659
Ion Ratio Lower Upper
85 100
87 29.5 24.3 36.5





#3
Chlorodifluoromethane
Concen: 2.120 ppbv m
RT: 1.470 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

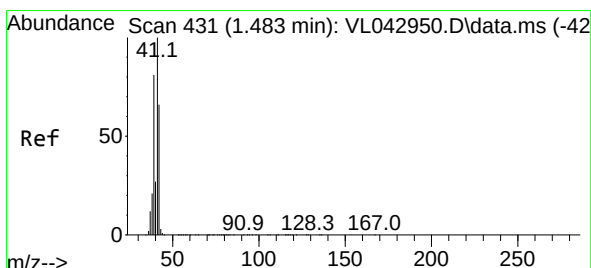
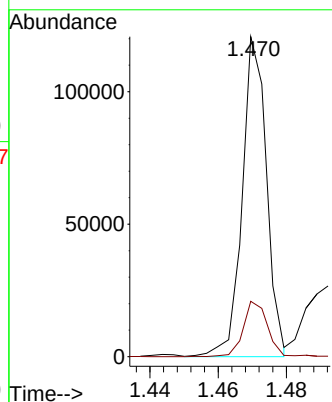
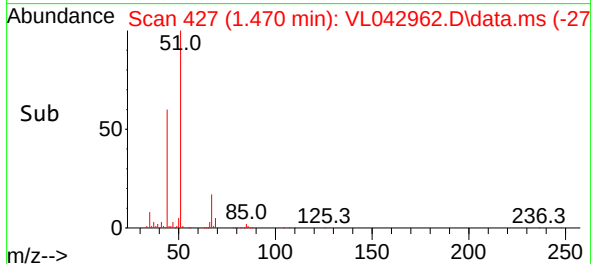
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 51 Resp: 5978
Ion Ratio Lower Upper
51 100
67 17.6 13.8 20.8

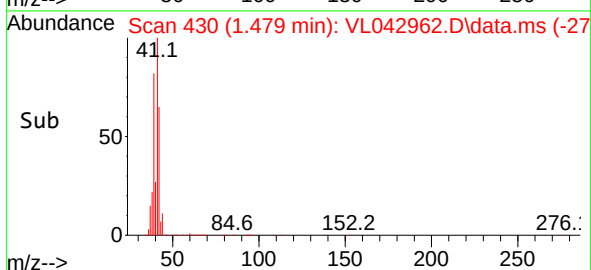
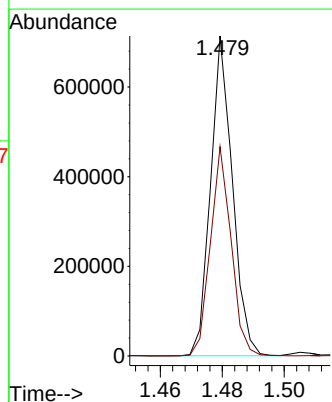
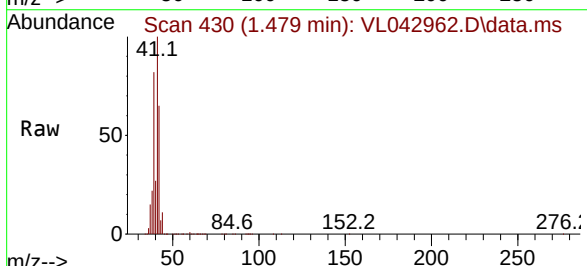
Manual Integrations
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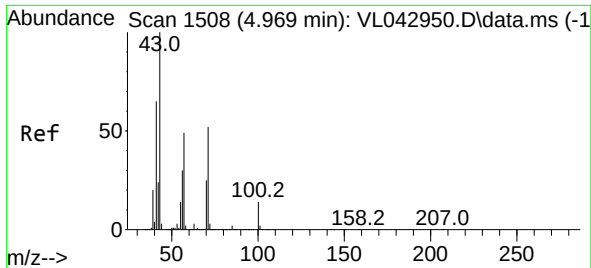
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#9
Propene
Concen: 28.496 ppbv
RT: 1.479 min Scan# 430
Delta R.T. -0.003 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

Tgt Ion: 41 Resp: 349498
Ion Ratio Lower Upper
41 100
42 62.5 57.4 86.2





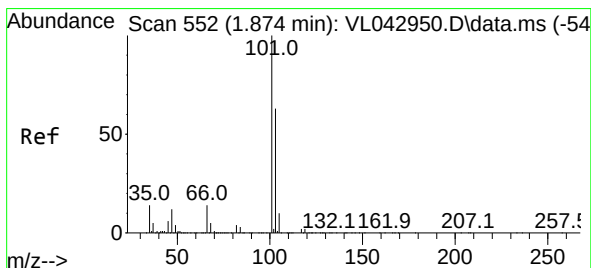
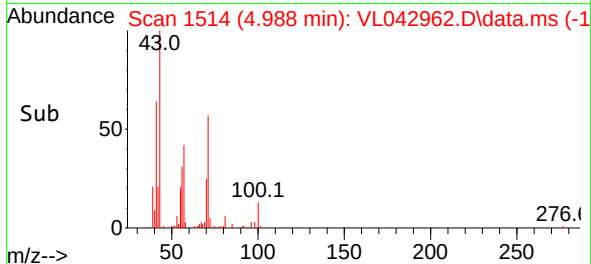
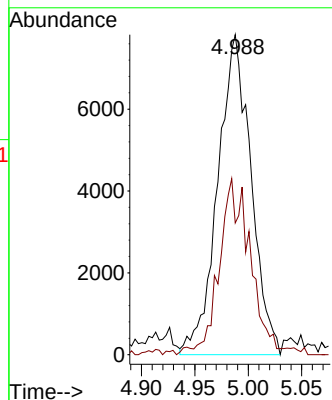
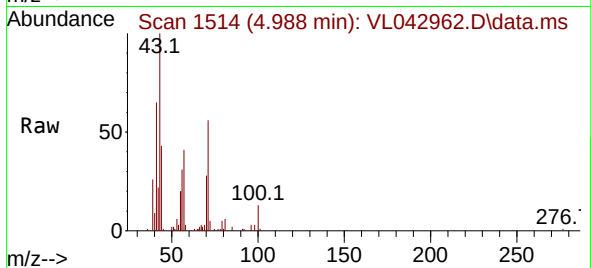
#10
 Heptane
 Concen: 0.518 ppbv
 RT: 4.988 min Scan# 1514
 Delta R.T. 0.019 min
 Lab File: VL042962.D
 Acq: 22 Sep 2025 18:04

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 43 Resp: 16949
 Ion Ratio Lower Upper
 43 100
 57 51.9 38.6 57.8

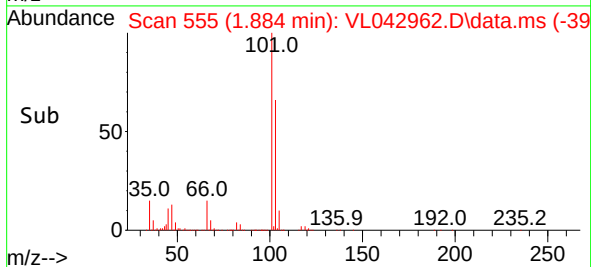
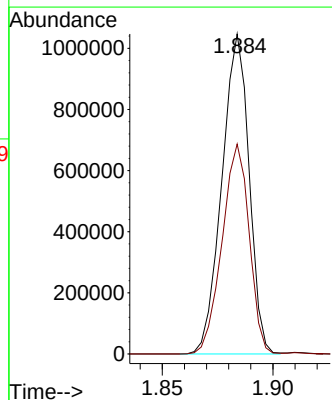
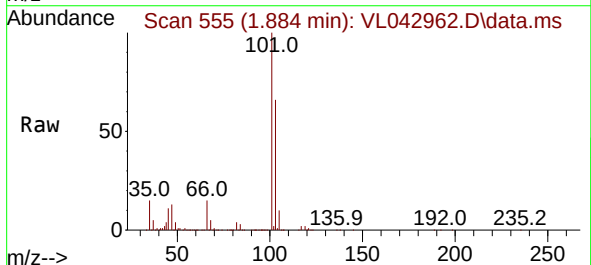
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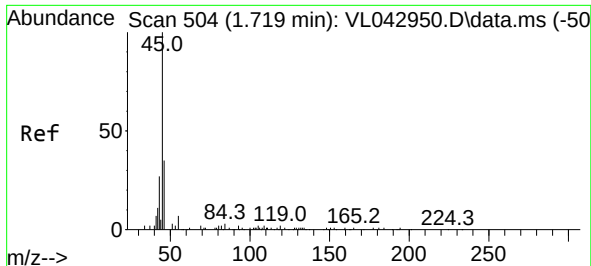
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#11
 Trichlorofluoromethane
 Concen: 40.976 ppbv
 RT: 1.884 min Scan# 555
 Delta R.T. 0.009 min
 Lab File: VL042962.D
 Acq: 22 Sep 2025 18:04

Tgt Ion:101 Resp: 893679
 Ion Ratio Lower Upper
 101 100
 103 65.6 50.1 75.1





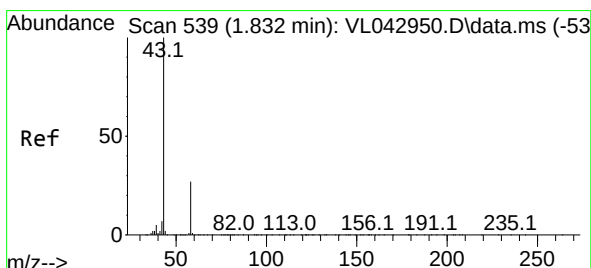
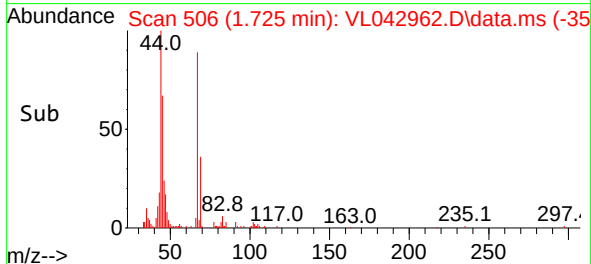
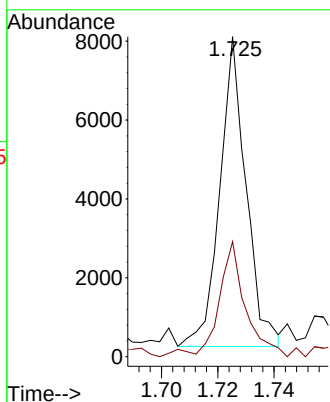
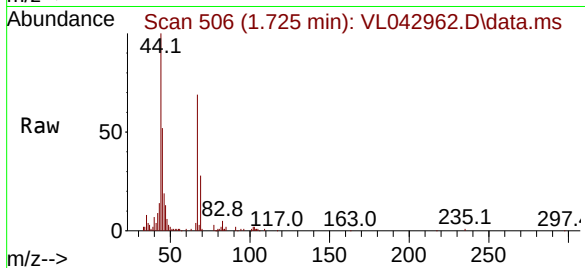
#13
Ethanol
Concen: 4.279 ppbv
RT: 1.725 min Scan# 509
Delta R.T. 0.006 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 509
Ion Ratio Lower Upper
45 100
46 0.0 16.2 64.6

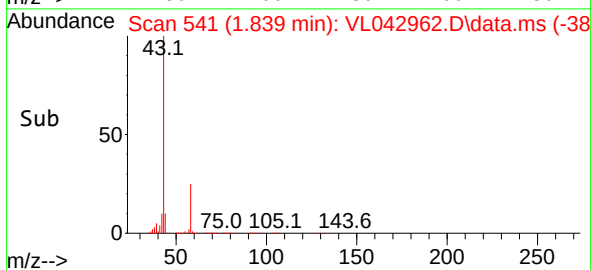
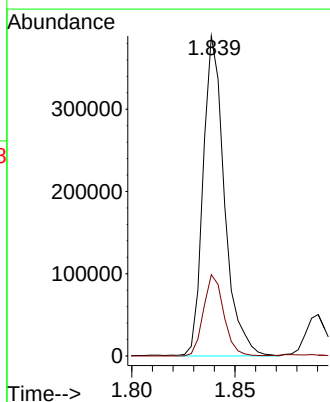
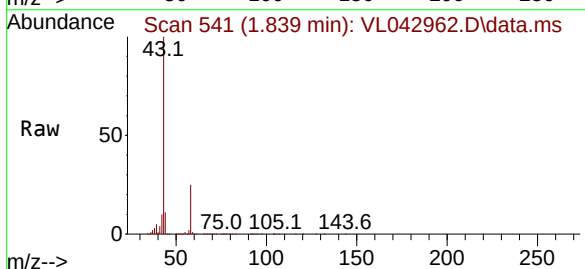
Manual Integrations
APPROVED

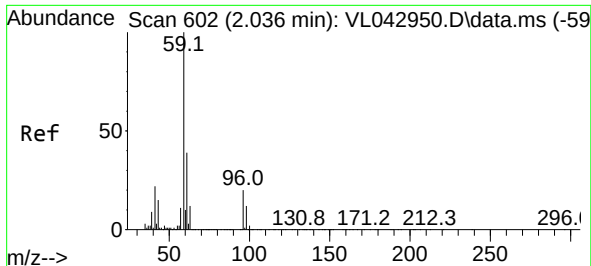
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#15
Acetone
Concen: 12.744 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

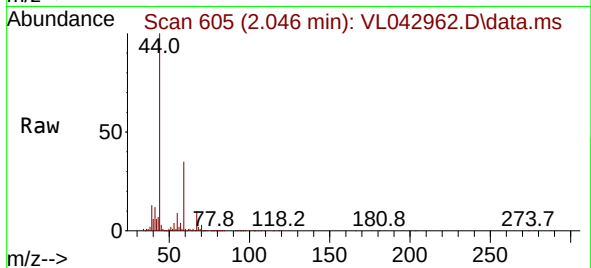
Tgt Ion: 43 Resp: 279146
Ion Ratio Lower Upper
43 100
58 24.2 22.3 33.5





#17
tert-Butyl alcohol
Concen: 0.772 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

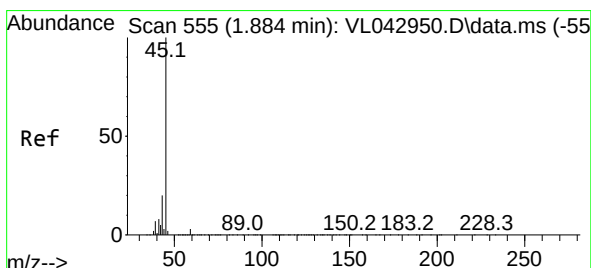
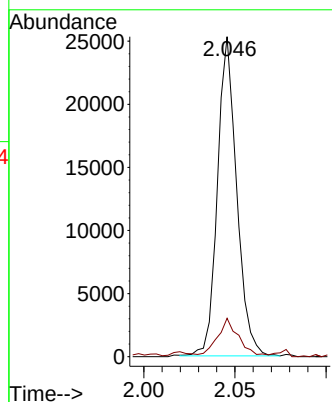
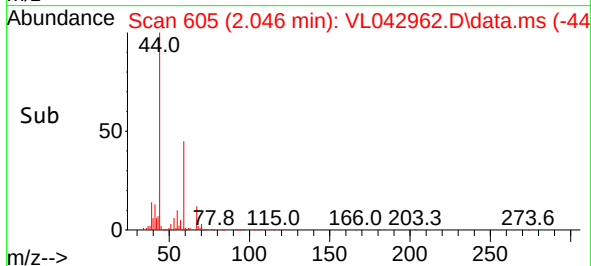
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 59 Resp: 1853
Ion Ratio Lower Upper
59 100
57 16.4 8.6 12.8

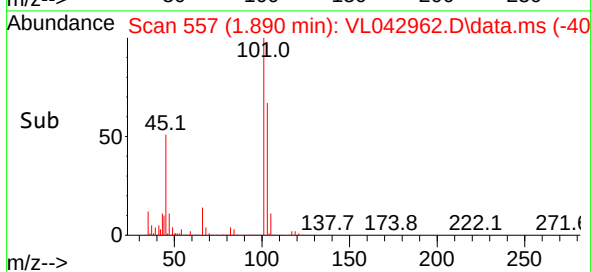
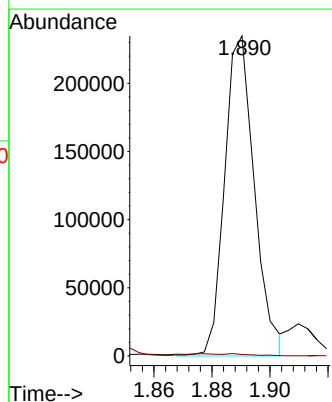
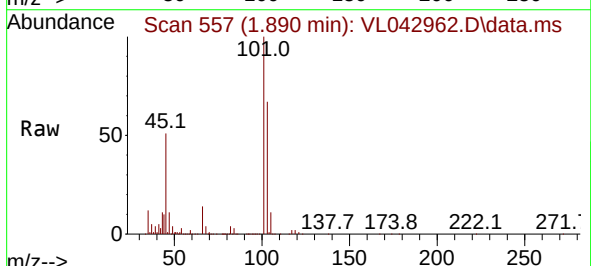
Manual Integrations
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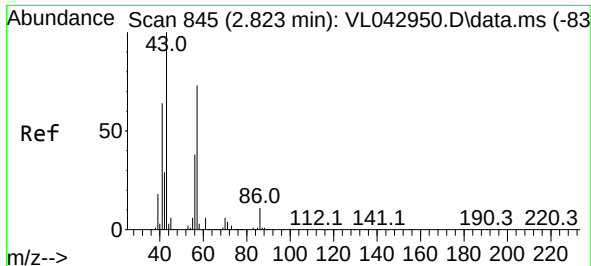
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#19
Isopropyl Alcohol
Concen: 12.720 ppbv m
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

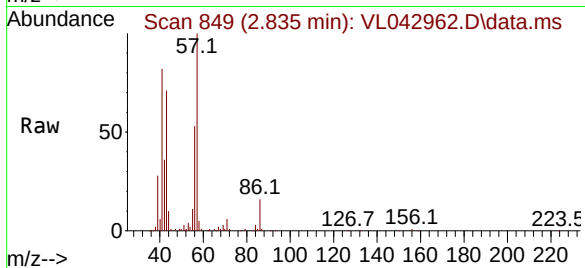
Tgt Ion: 45 Resp: 167495
Ion Ratio Lower Upper
45 100
58 0.0 31.0 46.6





#26
Hexane
Concen: 1.236 ppbv
RT: 2.835 min Scan# 845
Delta R.T. 0.013 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

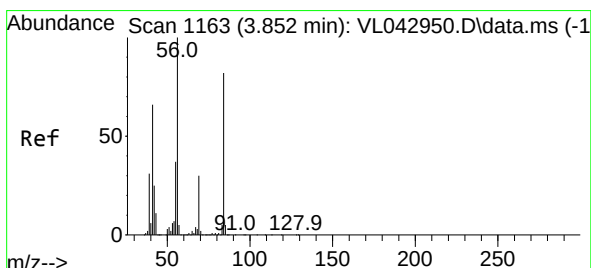
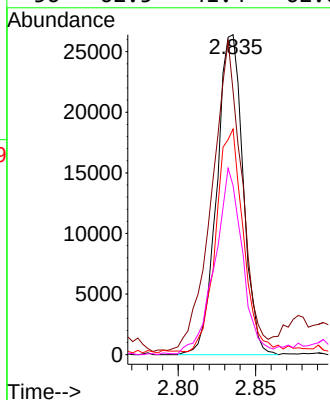
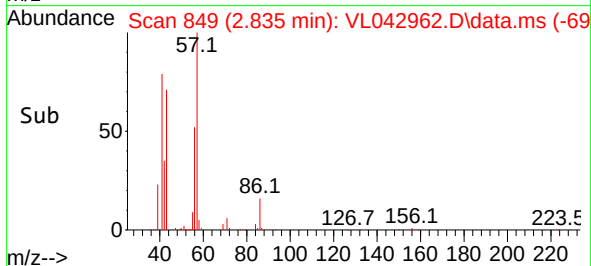
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 31200
Ion Ratio Lower Upper
57 100
41 108.8 71.7 107.5
43 80.4 180.8 271.2
56 62.5 41.4 62.0#

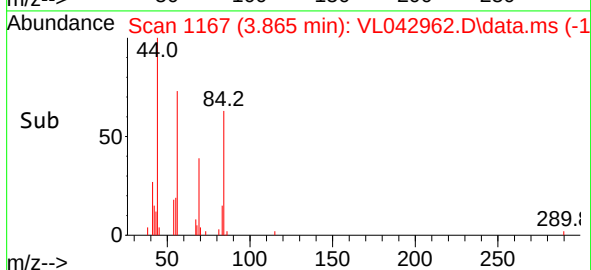
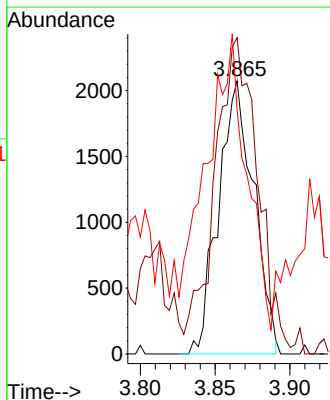
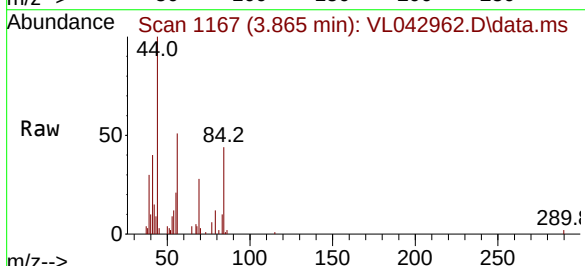
Manual Integrations
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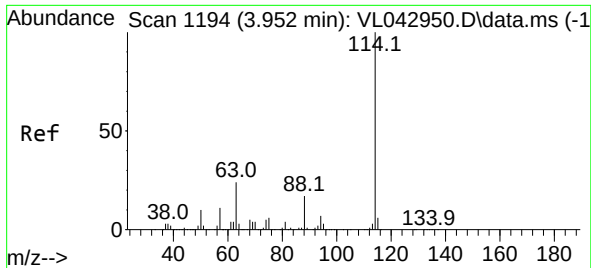
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#30
Cyclohexane
Concen: 0.161 ppbv m
RT: 3.865 min Scan# 1167
Delta R.T. 0.013 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

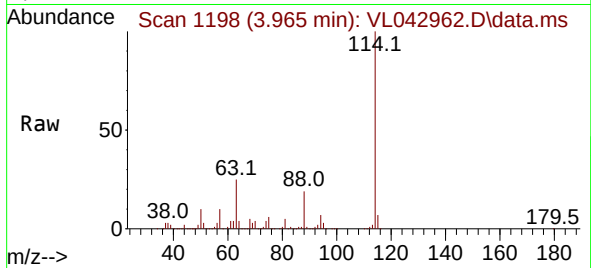
Tgt Ion: 84 Resp: 3406
Ion Ratio Lower Upper
84 100
56 139.6 102.2 153.4
41 119.6 65.6 98.4#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.013 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

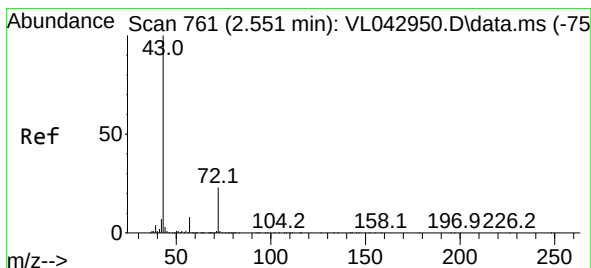
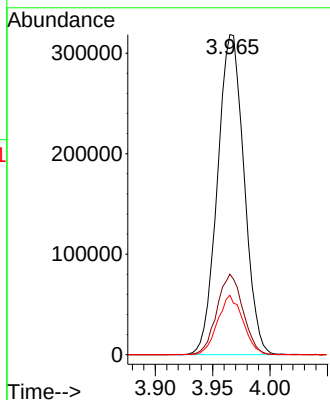
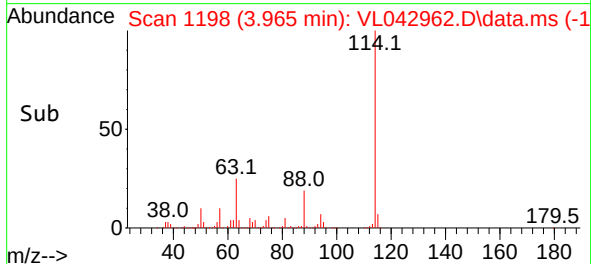
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:114 Resp: 513000
Ion Ratio Lower Upper
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63 24.7 19.4 29.2
88 17.7 14.2 21.2

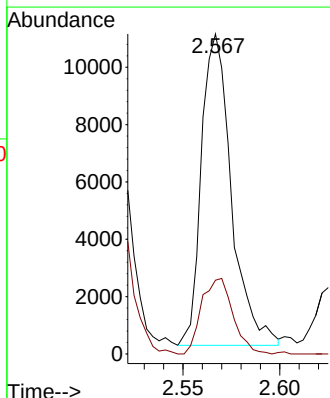
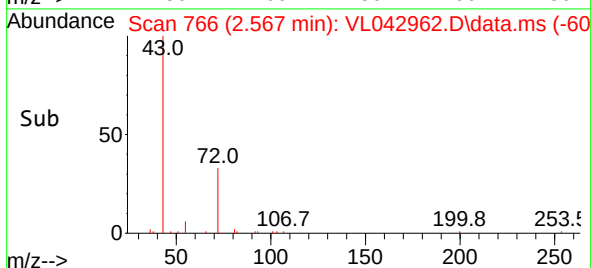
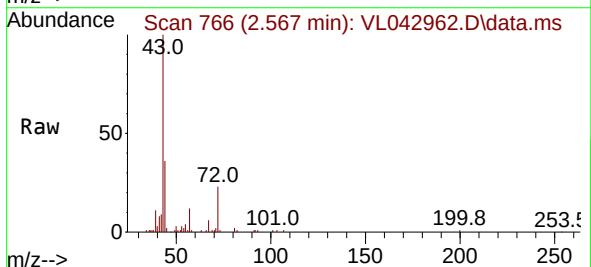
Manual Integrations
APPROVED

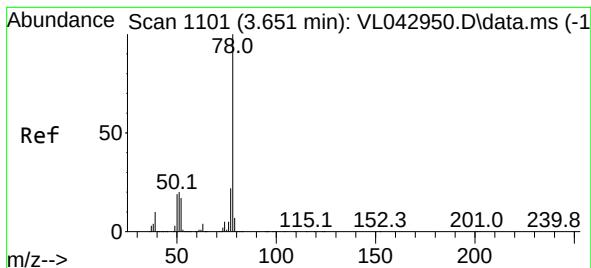
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#34
2-Butanone
Concen: 0.326 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.016 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

Tgt Ion: 43 Resp: 11709
Ion Ratio Lower Upper
43 100
72 25.6 17.7 26.5





#36

Benzene

Concen: 0.691 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.013 min

Lab File: VL042962.D

Acq: 22 Sep 2025 18:04

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 78 Resp: 33310

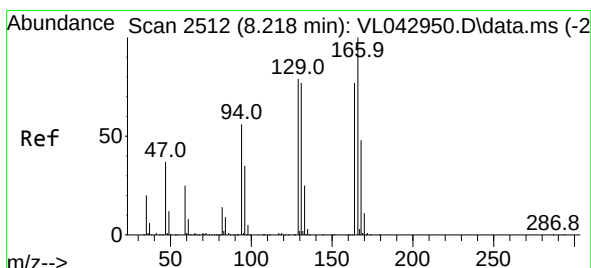
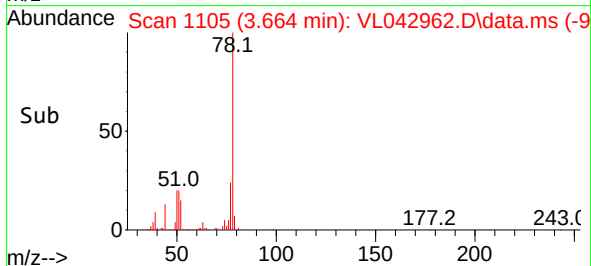
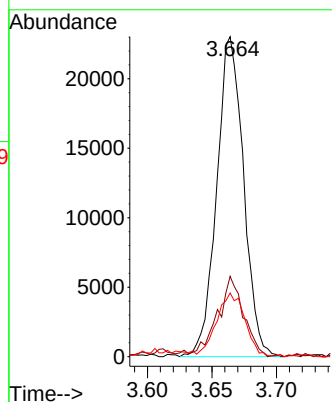
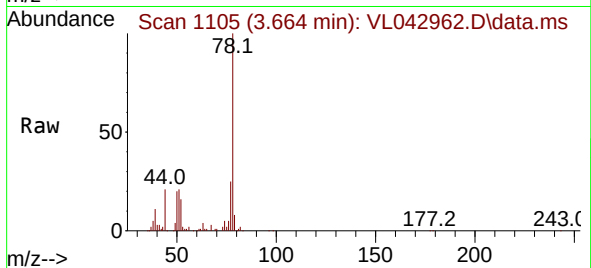
Ion	Ratio	Lower	Upper
78	100		
77	24.5	17.8	26.6
50	19.2	15.0	22.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#52

Tetrachloroethene

Concen: 0.262 ppbv m

RT: 8.231 min Scan# 2516

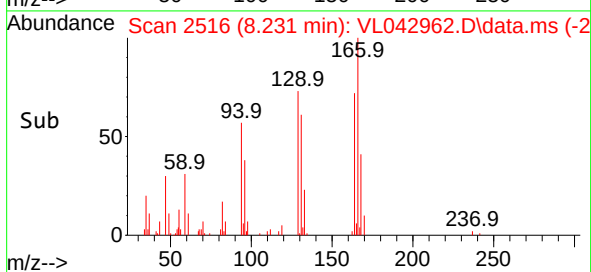
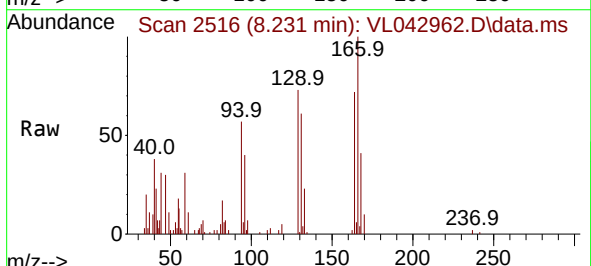
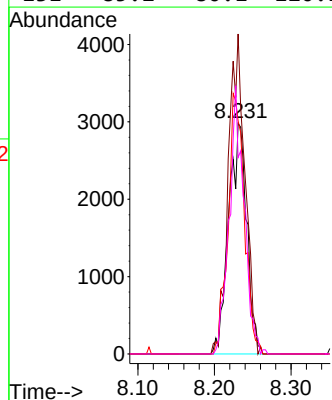
Delta R.T. 0.013 min

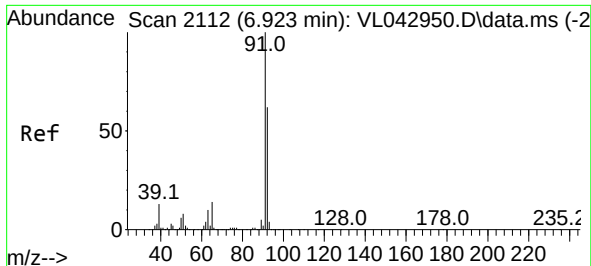
Lab File: VL042962.D

Acq: 22 Sep 2025 18:04

Tgt Ion:164 Resp: 4881

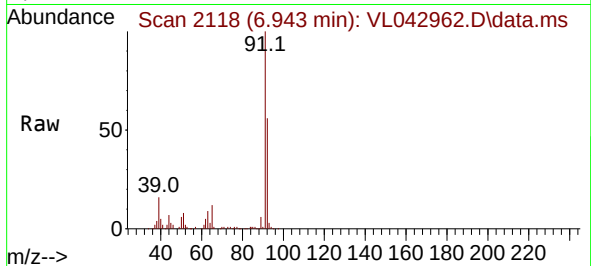
Ion	Ratio	Lower	Upper
164	100		
166	138.7	103.5	155.3
129	101.0	82.2	123.4
131	85.2	80.1	120.1





#53
Toluene
Concen: 1.347 ppbv
RT: 6.943 min Scan# 2112
Delta R.T. 0.019 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

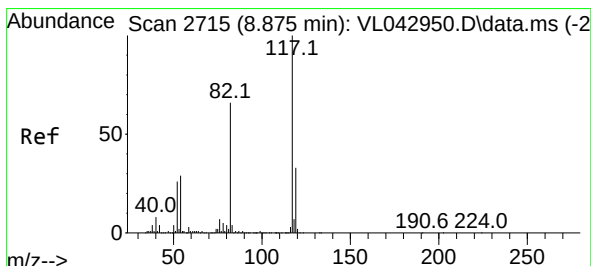
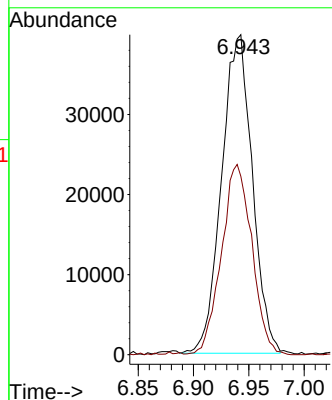
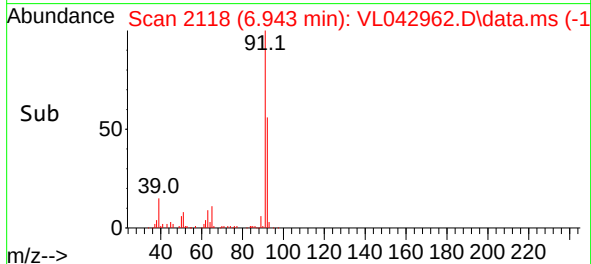
Instrument :
MSVOA_L
ClientSampleId :
SV1



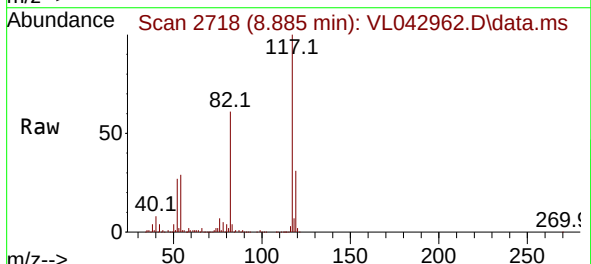
Tgt Ion: 91 Resp: 76794
Ion Ratio Lower Upper
91 100
92 59.7 48.2 72.2

Manual Integrations
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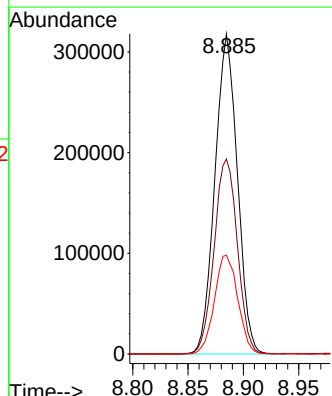
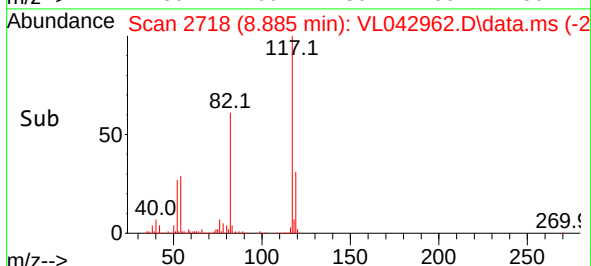
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

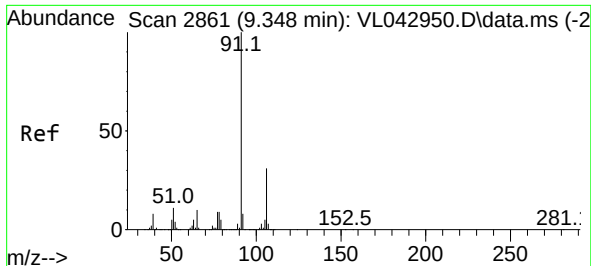


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.009 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04



Tgt Ion:117 Resp: 448889
Ion Ratio Lower Upper
117 100
82 63.1 52.8 79.2
119 32.1 26.5 39.7





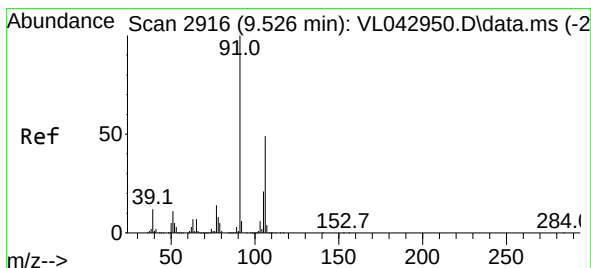
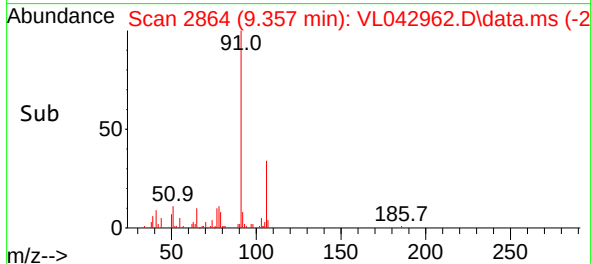
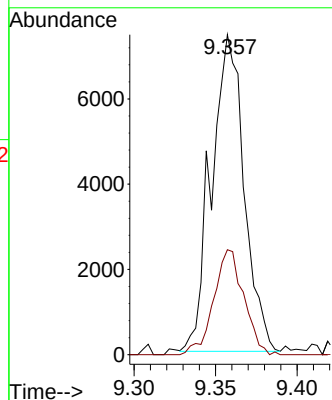
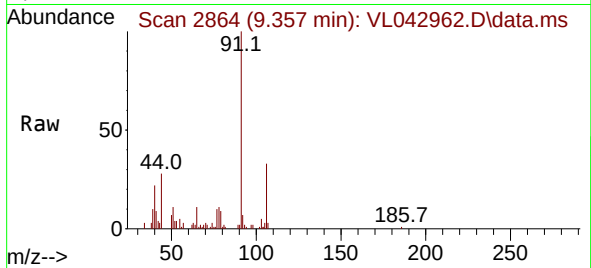
#58
Ethyl Benzene
Concen: 0.141 ppbv
RT: 9.357 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 1037
Ion Ratio Lower Upper
91 100
106 33.2 24.6 37.0

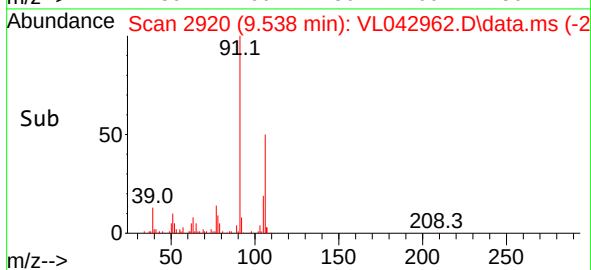
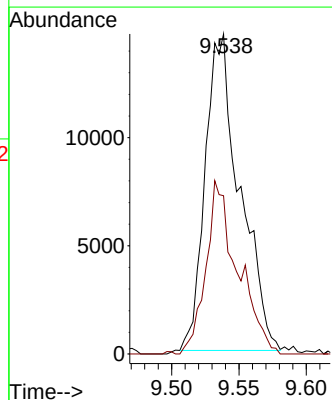
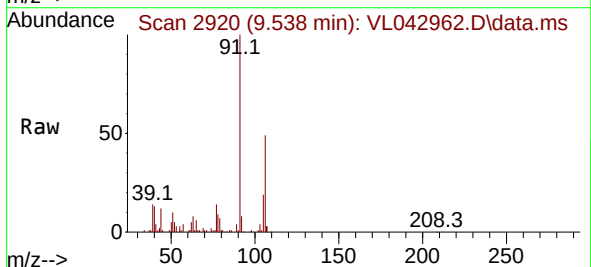
Manual Integrations
APPROVED

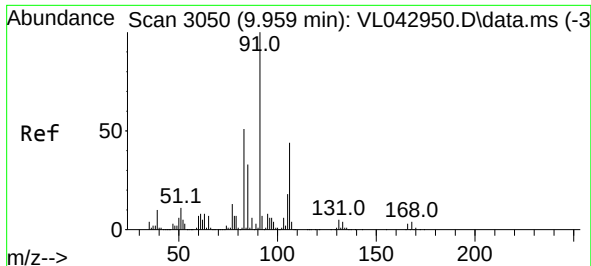
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#59
m/p-Xylene
Concen: 0.452 ppbv
RT: 9.538 min Scan# 2920
Delta R.T. 0.013 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

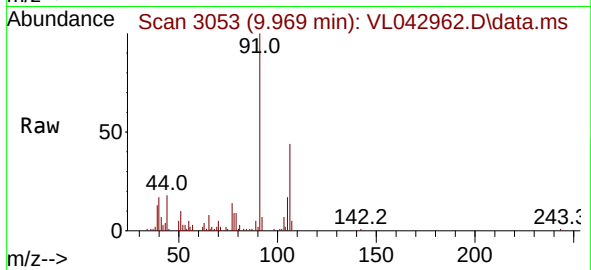
Tgt Ion: 91 Resp: 26248
Ion Ratio Lower Upper
91 100
106 50.0 0.0 0.0#





#60
o-Xylene
Concen: 0.227 ppbv
RT: 9.969 min Scan# 3050
Delta R.T. 0.010 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

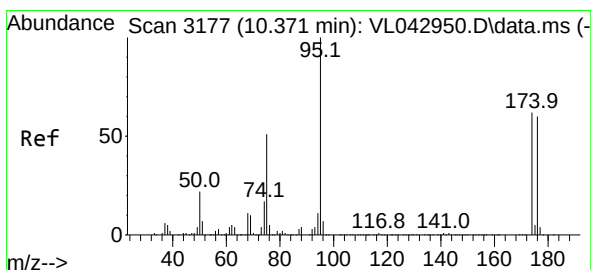
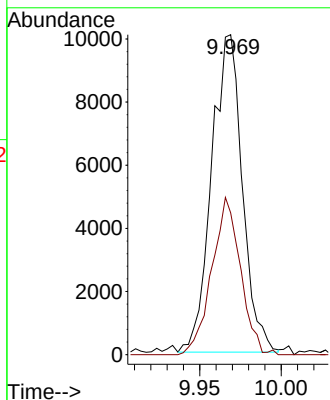
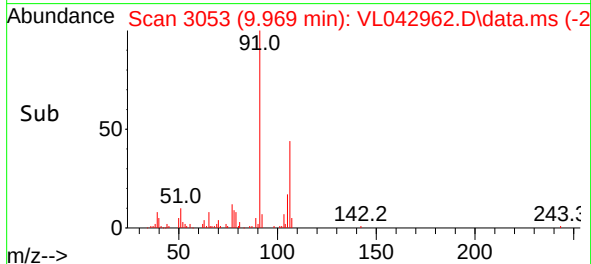
Instrument :
MSVOA_L
ClientSampleId :
SV1



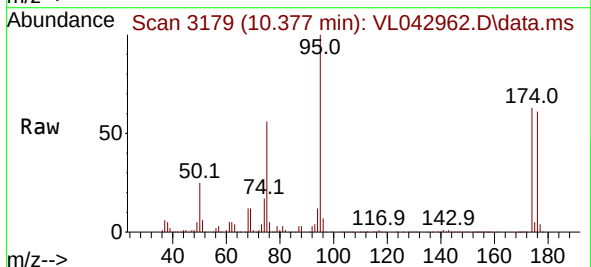
Tgt Ion: 91 Resp: 13169
Ion Ratio Lower Upper
91 100
106 46.2 22.4 67.0

Manual Integrations
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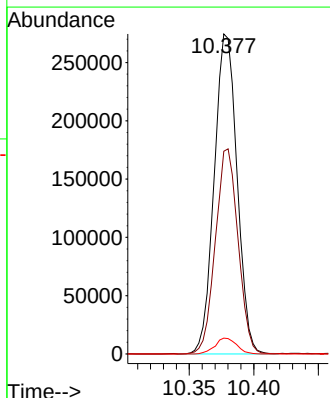
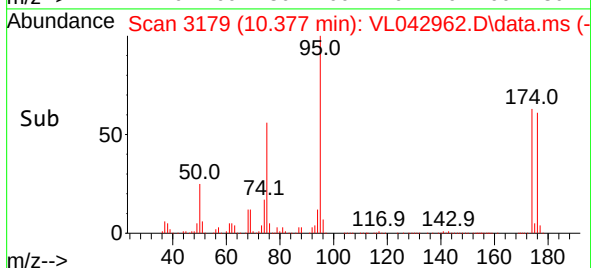
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

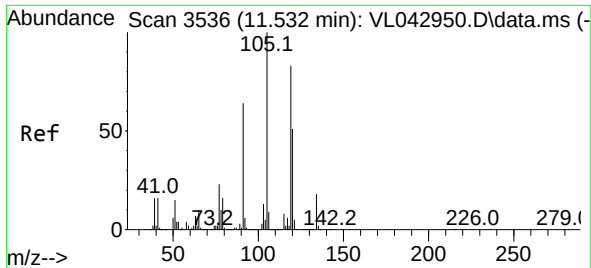


#68
1-Bromo-4-Fluorobenzene
Concen: 10.069 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04



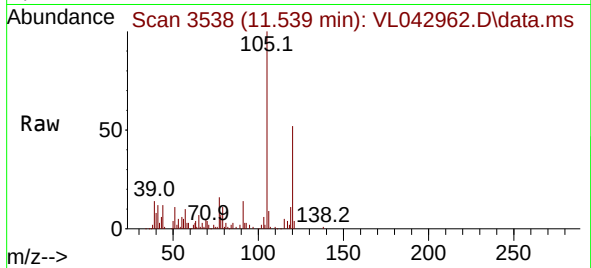
Tgt Ion: 95 Resp: 337380
Ion Ratio Lower Upper
95 100
174 63.6 51.4 77.2
175 4.7 4.0 6.0





#74
1,2,4-Trimethylbenzene
Concen: 0.277 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.006 min
Lab File: VL042962.D
Acq: 22 Sep 2025 18:04

Instrument : MSVOA_L
ClientSampleId : SV1



Tgt Ion:	105	Resp:	1803
Ion	Ratio	Lower	Upper
105	100		
120	52.2	40.9	61.3
91	13.7	51.2	76.8
77	15.8	18.4	27.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

