

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042296.D
 Acq On : 09 Apr 2025 16:57
 Operator : SY/MD
 Sample : Q1665-20
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-3-3242025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:46:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	161865	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	384782	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	329132	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	253889	9.393	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10098	0.423	ppbv	94
3) Chlorodifluoromethane	1.476	51	13698m	0.561	ppbv	
4) Chloromethane	1.531	50	4745	0.486	ppbv	96
9) Propene	1.486	41	34342m	3.069	ppbv	
10) Heptane	4.981	43	4849m	0.163	ppbv	
11) Trichlorofluoromethane	1.877	101	4945	0.213	ppbv #	74
13) Ethanol	1.722	45	33576	31.739	ppbv	81
15) Acetone	1.835	43	182118	8.045	ppbv	92
19) Isopropyl Alcohol	1.884	45	498343	39.016	ppbv #	32
20) Methylene Chloride	2.062	84	11004	1.305	ppbv	96
26) Hexane	2.826	57	33283	1.467	ppbv #	36
34) 2-Butanone	2.560	43	71103	2.548	ppbv	95
35) Carbon Tetrachloride	3.758	117	2271	0.076	ppbv #	90
36) Benzene	3.654	78	10547	0.276	ppbv #	94
41) Tetrahydrofuran	3.062	42	4483	0.279	ppbv	92
53) Toluene	6.930	91	24055	0.532	ppbv	98
57) Chlorobenzene	8.914	112	3957m	0.127	ppbv	
59) m/p-Xylene	9.526	91	10336m	0.221	ppbv	
60) o-Xylene	9.963	91	5830	0.125	ppbv	99

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

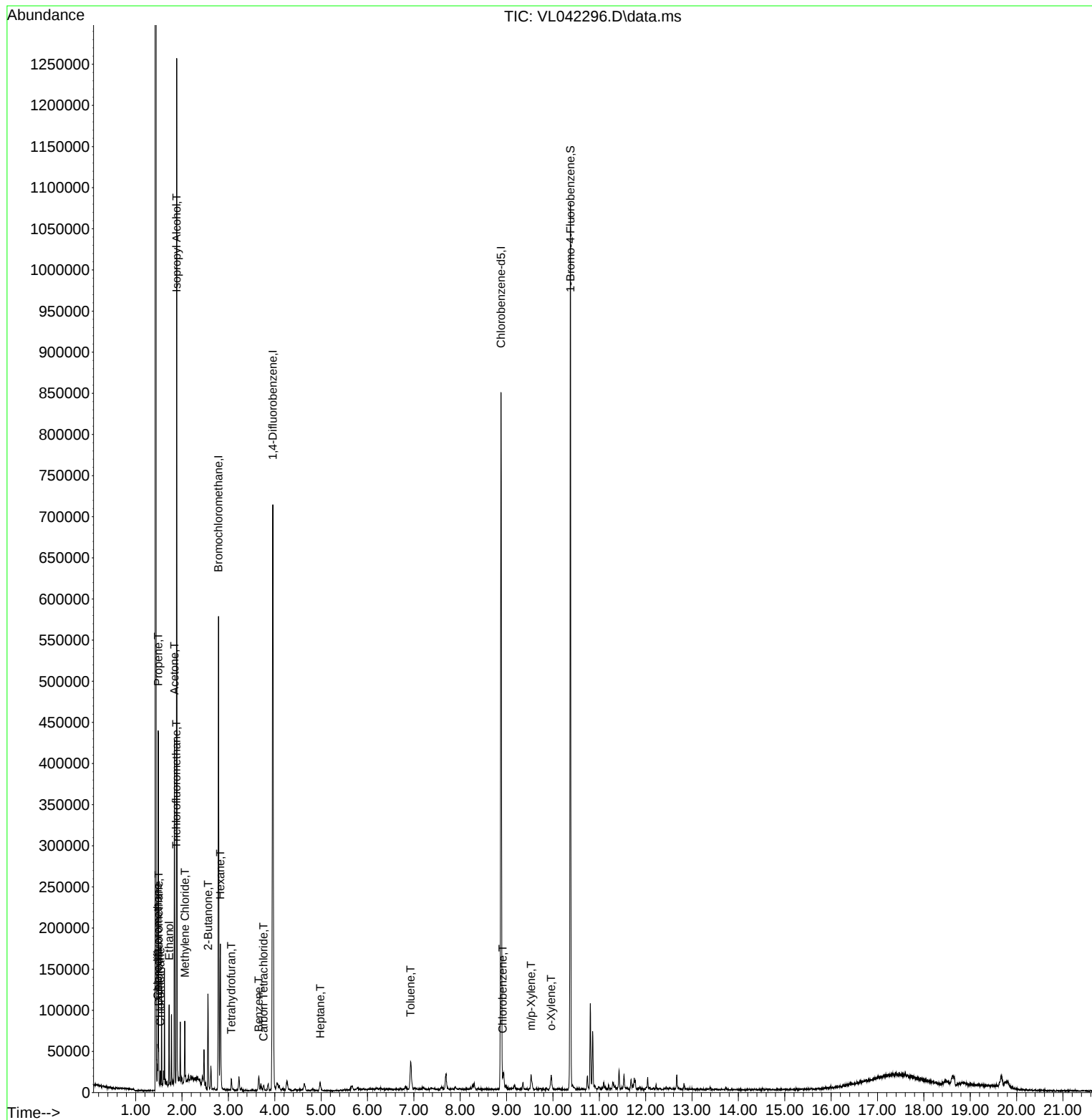
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
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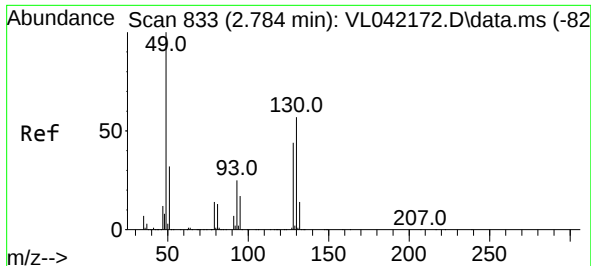
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

Quant Time: Apr 10 01:46:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
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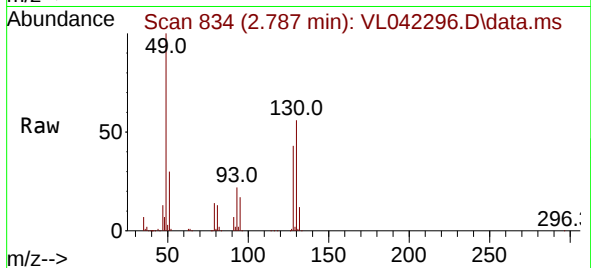
Reviewed By : Semsettin Yesilyurt 04/10/2025
Supervised By : Mahesh Dadoda 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

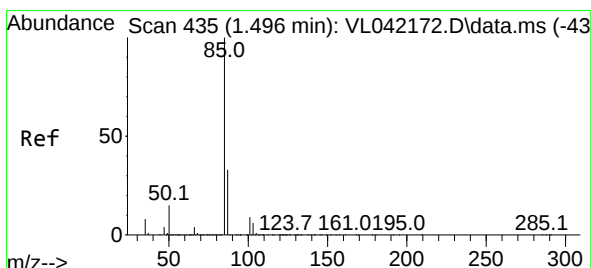
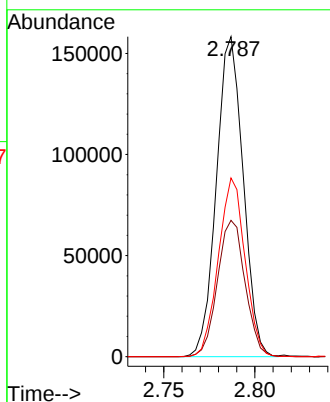
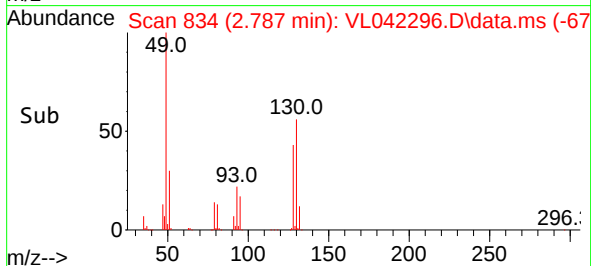
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025



Tgt Ion: 49 Resp: 16186
Ion Ratio Lower Upper
49 100
128 43.9 22.9 68.5
130 55.7 28.8 86.4

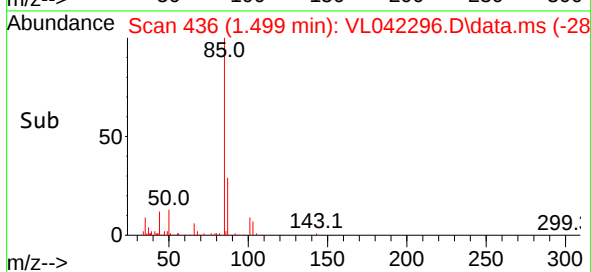
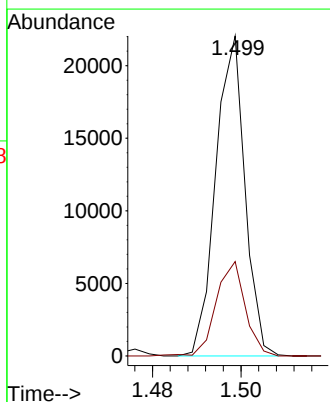
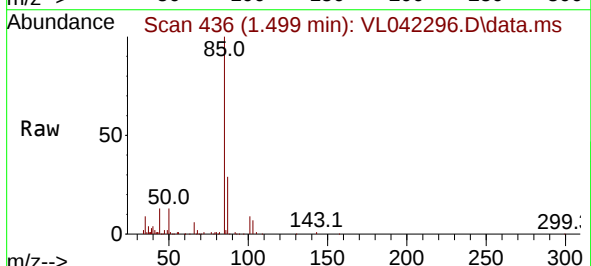
Manual Integrations
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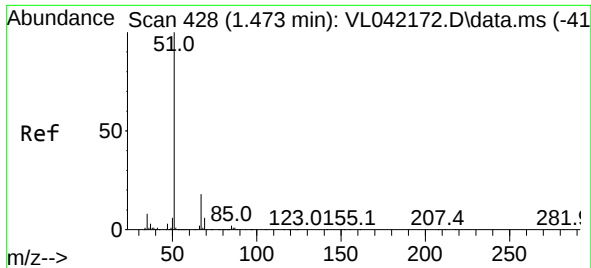
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.423 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

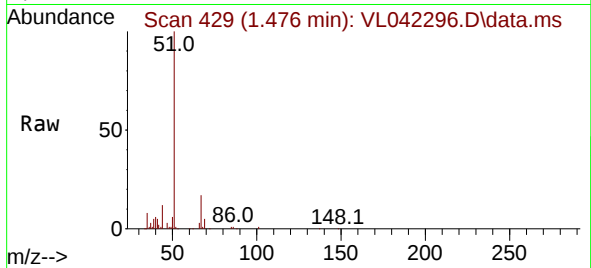
Tgt Ion: 85 Resp: 10098
Ion Ratio Lower Upper
85 100
87 29.5 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.561 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

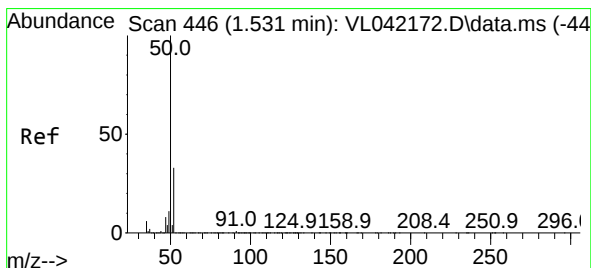
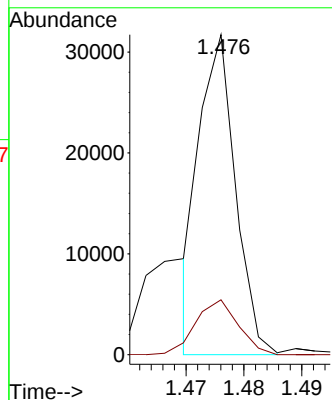
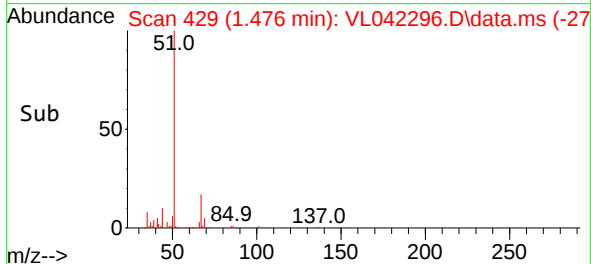
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025



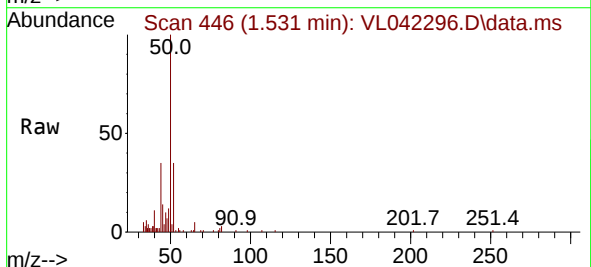
Tgt Ion: 51 Resp: 13698
Ion Ratio Lower Upper
51 100
67 2.8 15.0 22.6

Manual Integrations
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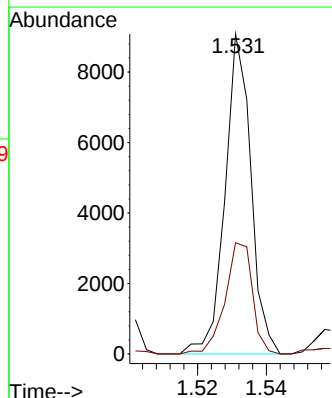
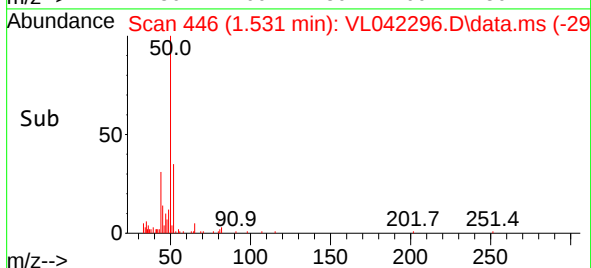
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

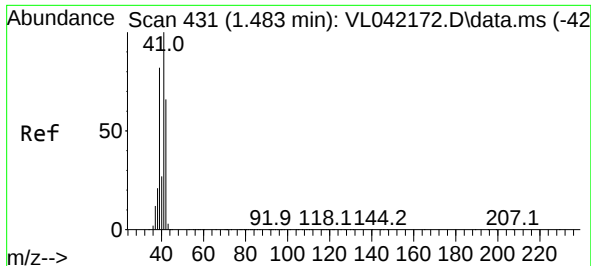


#4
Chloromethane
Concen: 0.486 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57



Tgt Ion: 50 Resp: 4745
Ion Ratio Lower Upper
50 100
52 34.8 26.1 39.1





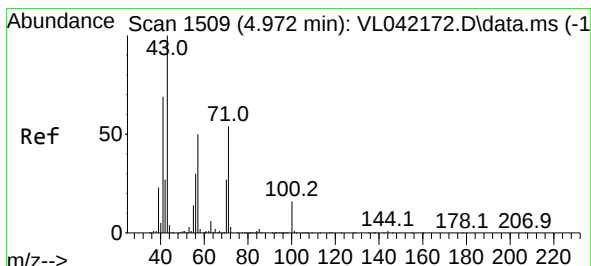
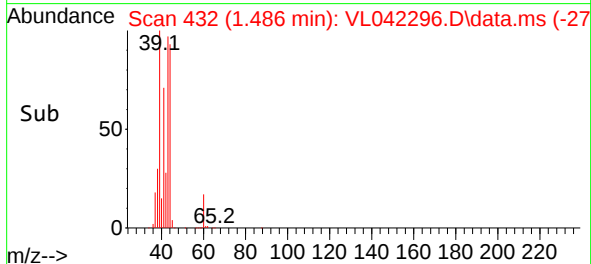
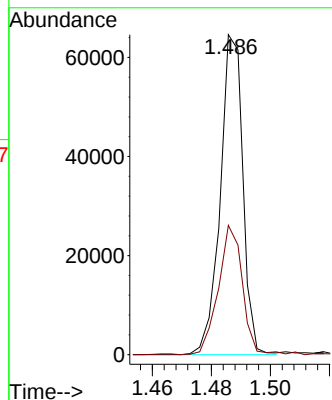
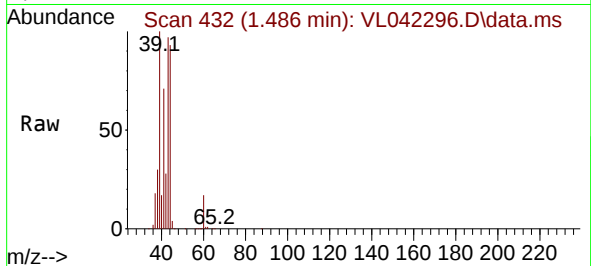
#9
 Propene
 Concen: 3.069 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042296.D
 Acq: 09 Apr 2025 16:57

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-3-3242025

Tgt Ion: 41 Resp: 3434
 Ion Ratio Lower Upper
 41 100
 42 87.7 55.4 83.2

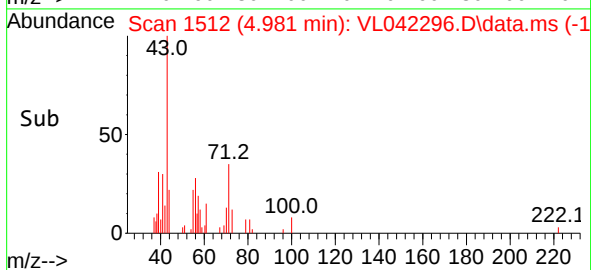
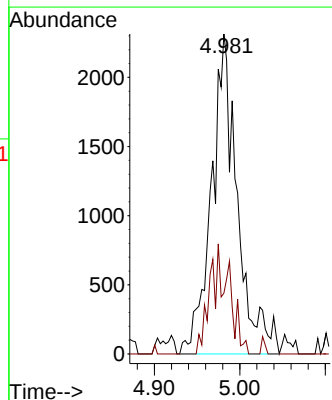
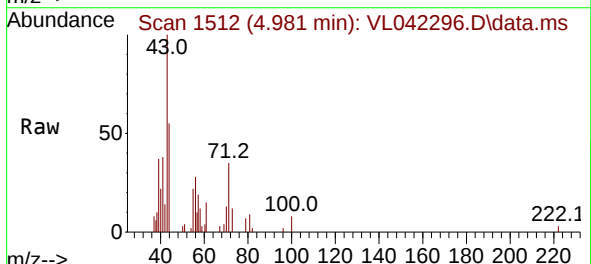
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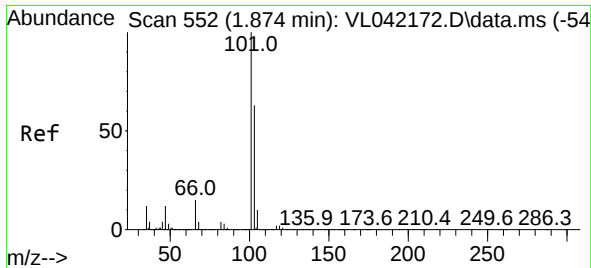
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#10
 Heptane
 Concen: 0.163 ppbv m
 RT: 4.981 min Scan# 1512
 Delta R.T. 0.009 min
 Lab File: VL042296.D
 Acq: 09 Apr 2025 16:57

Tgt Ion: 43 Resp: 4849
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.2





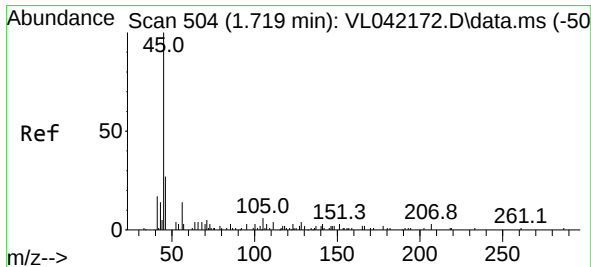
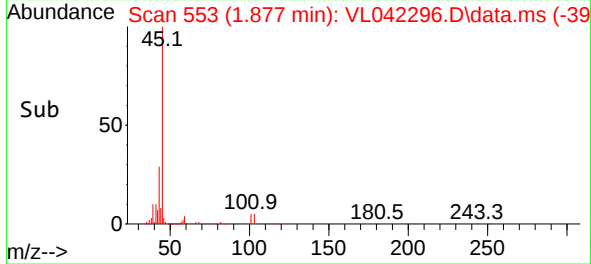
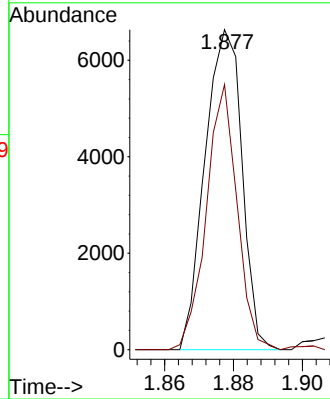
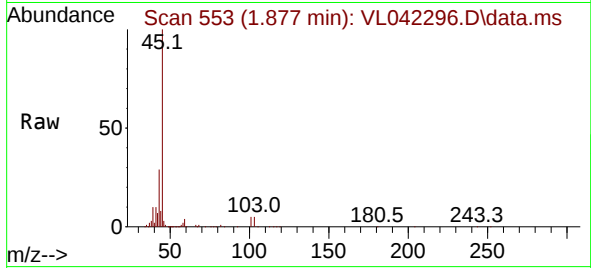
#11
Trichlorofluoromethane
Concen: 0.213 ppbv
RT: 1.877 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

Tgt Ion:101 Resp: 4945
Ion Ratio Lower Upper
101 100
103 82.8 50.2 75.2

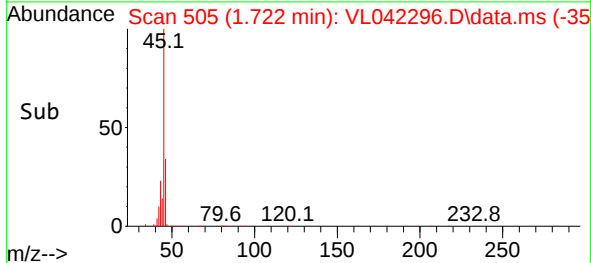
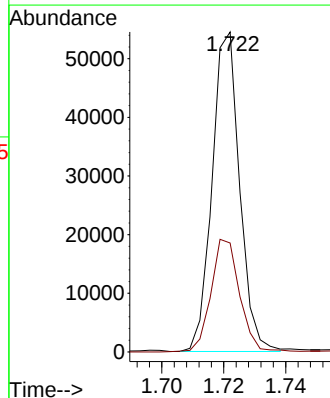
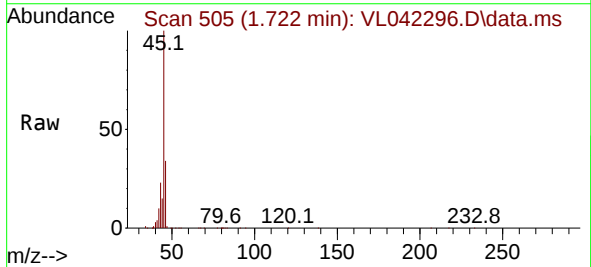
Manual Integrations
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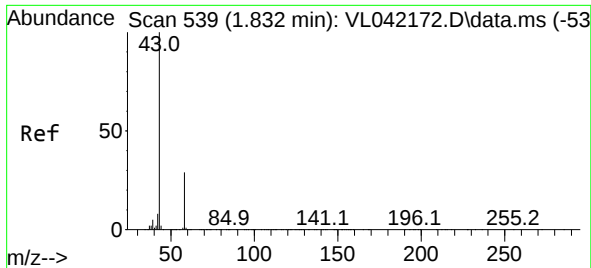
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#13
Ethanol
Concen: 31.739 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 45 Resp: 33576
Ion Ratio Lower Upper
45 100
46 37.1 20.2 80.8





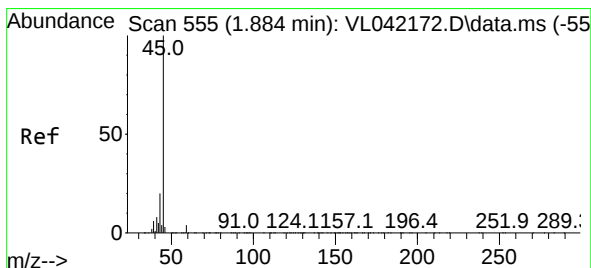
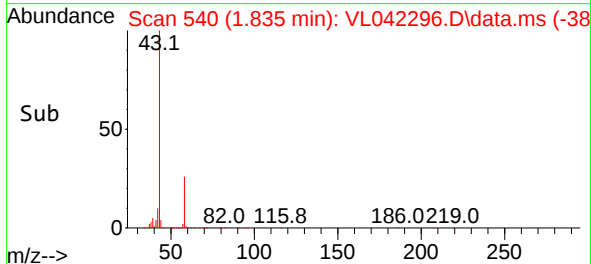
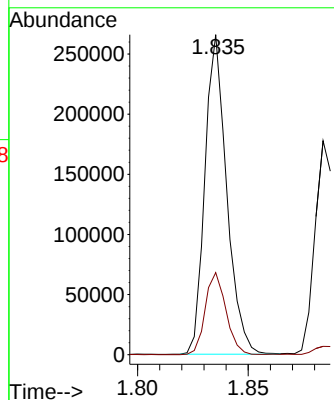
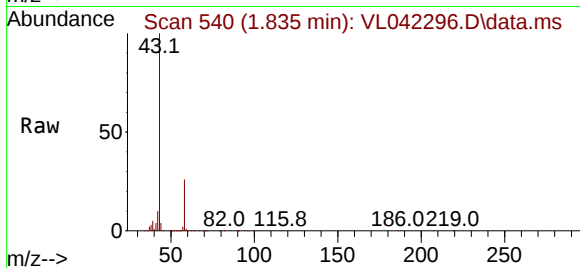
#15
Acetone
Concen: 8.045 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Instrument : MSVOA_L
ClientSampleId : IA-B9-3-3242025

Tgt Ion: 43 Resp: 182118
Ion Ratio Lower Upper
43 100
58 24.5 23.2 34.8

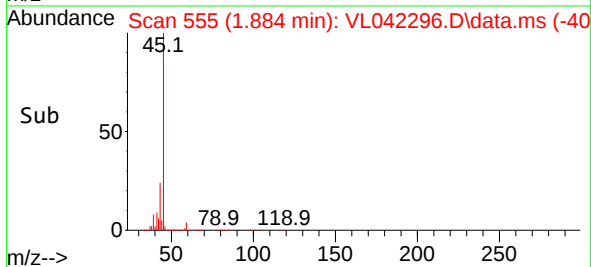
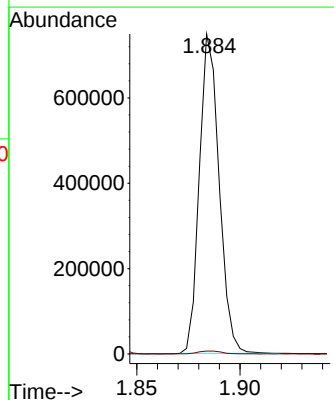
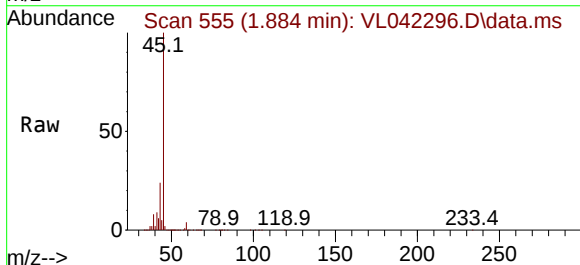
Manual Integrations
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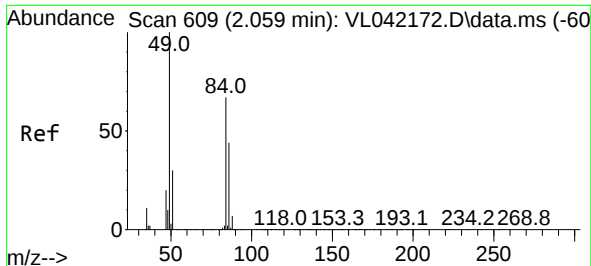
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#19
Isopropyl Alcohol
Concen: 39.016 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

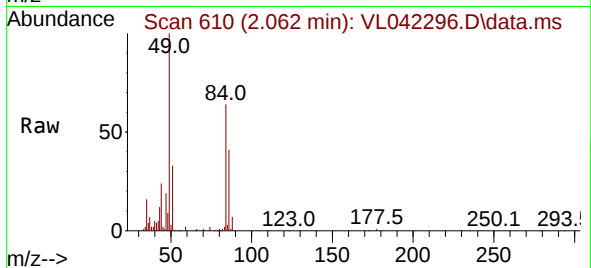
Tgt Ion: 45 Resp: 498343
Ion Ratio Lower Upper
45 100
58 1.2 36.9 55.3#





#20
Methylene Chloride
Concen: 1.305 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

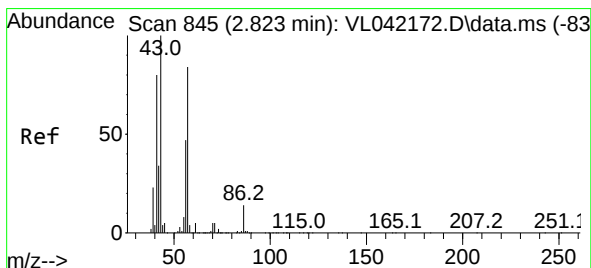
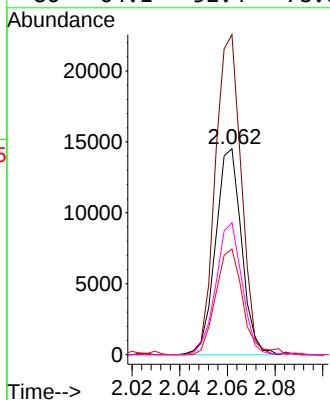
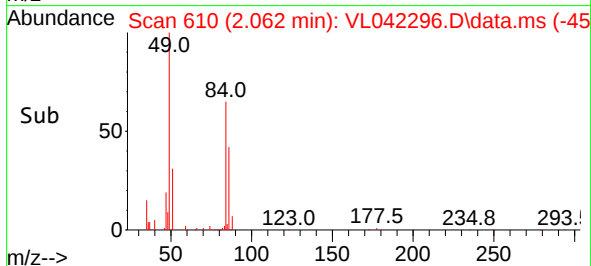
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025



Tgt Ion: 84 Resp: 11004
Ion Ratio Lower Upper
84 100
49 155.3 120.2 180.4
51 51.4 37.4 56.0
86 64.1 52.4 78.6

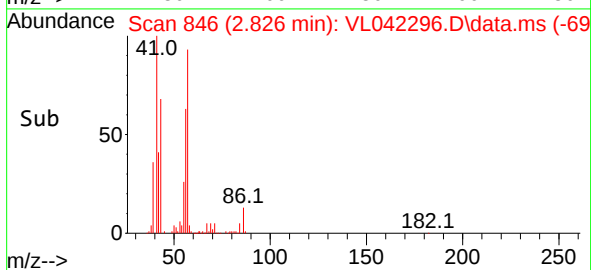
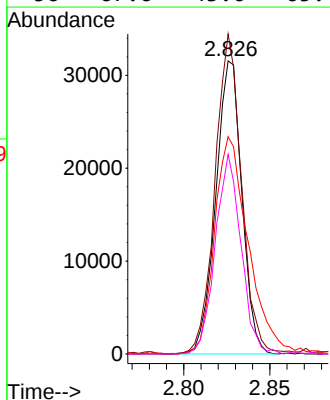
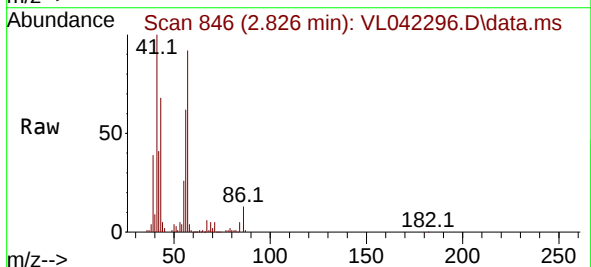
Manual Integrations
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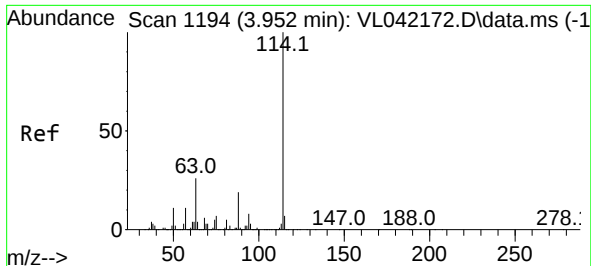
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#26
Hexane
Concen: 1.467 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

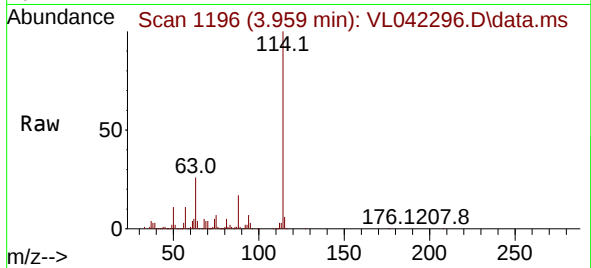
Tgt Ion: 57 Resp: 33283
Ion Ratio Lower Upper
57 100
41 112.6 76.6 114.8
43 96.8 207.8 311.8#
56 67.6 43.6 65.4#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

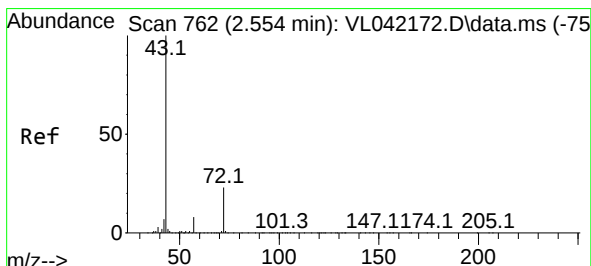
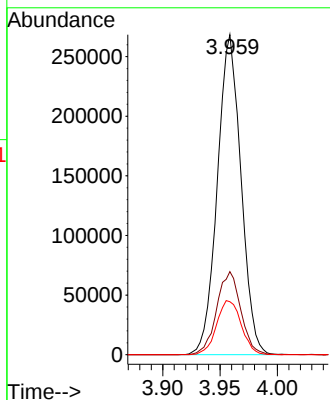
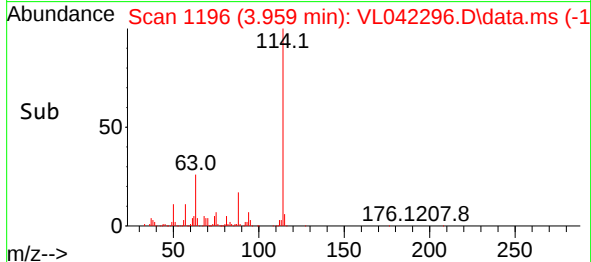
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025



Tgt Ion:114 Resp: 384782
Ion Ratio Lower Upper
114 100
63 26.6 20.7 31.1
88 17.6 15.0 22.4

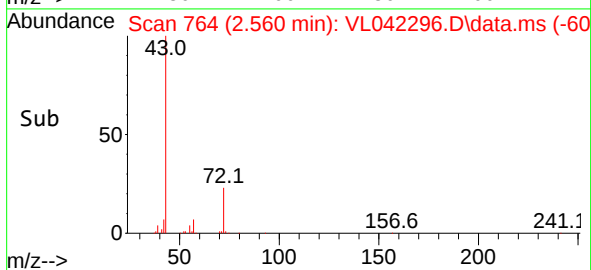
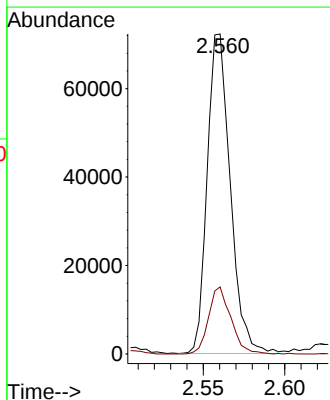
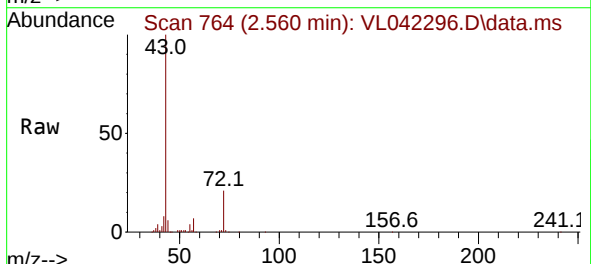
Manual Integrations
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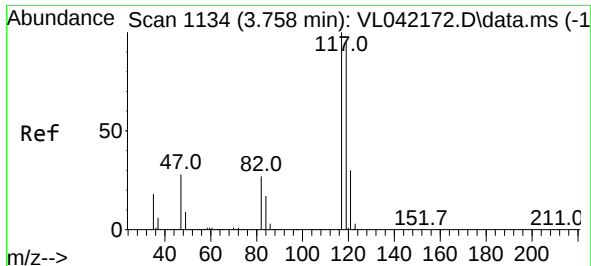
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#34
2-Butanone
Concen: 2.548 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

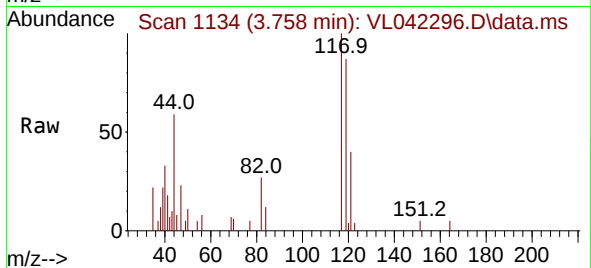
Tgt Ion: 43 Resp: 71103
Ion Ratio Lower Upper
43 100
72 20.4 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

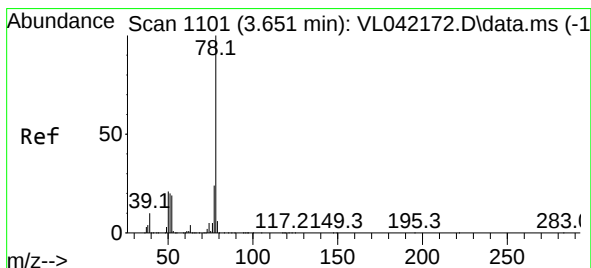
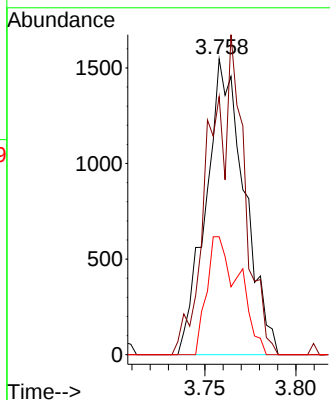
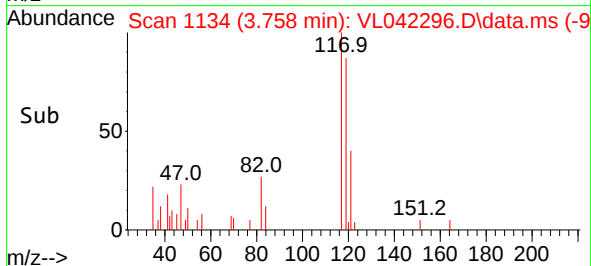
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025



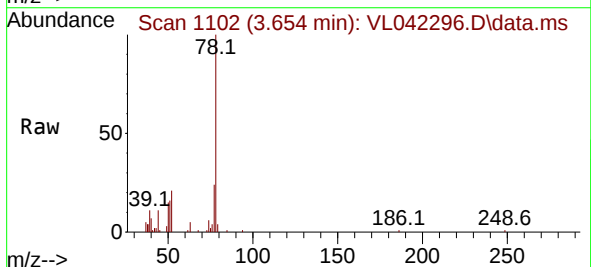
Tgt Ion:117 Resp: 227
Ion Ratio Lower Upper
117 100
119 87.2 76.2 114.2
121 39.9 24.2 36.4

Manual Integrations
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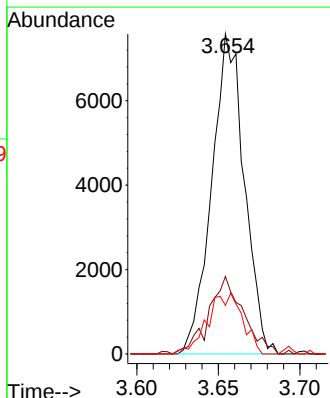
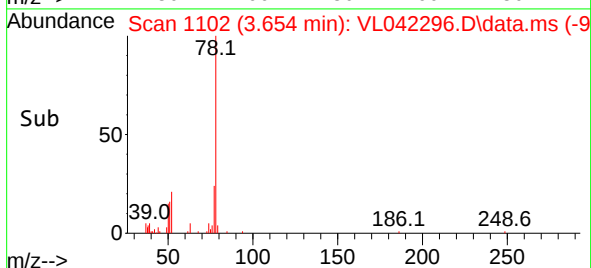
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

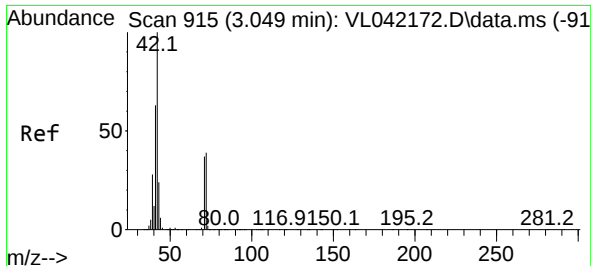


#36
Benzene
Concen: 0.276 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57



Tgt Ion: 78 Resp: 10547
Ion Ratio Lower Upper
78 100
77 24.2 19.1 28.7
50 15.2 16.6 24.8





#41

Tetrahydrofuran

Concen: 0.279 ppbv

RT: 3.062 min Scan# 915

Delta R.T. 0.013 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Instrument :

MSVOA_L

ClientSampleId :

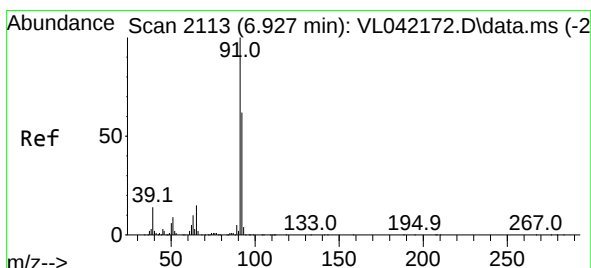
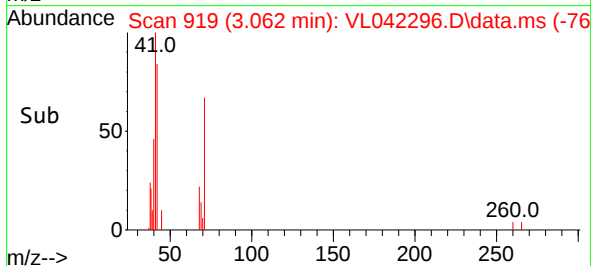
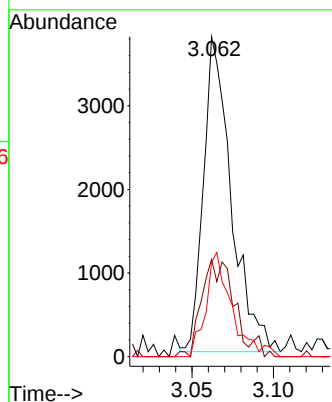
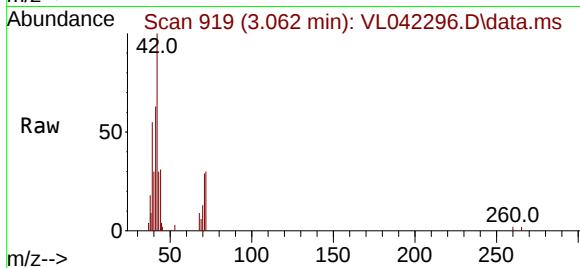
IA-B9-3-3242025

Tgt Ion: 42	Resp: 448
Ion Ratio	Lower Upper
42 100	
72 36.6	31.4 47.0
71 30.6	30.2 45.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#53

Toluene

Concen: 0.532 ppbv

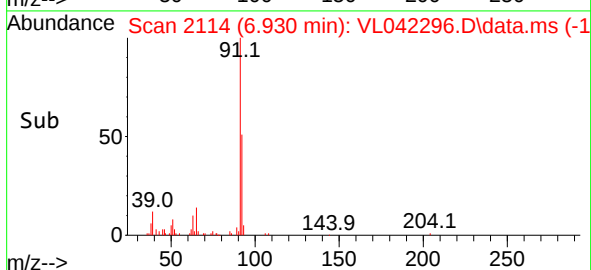
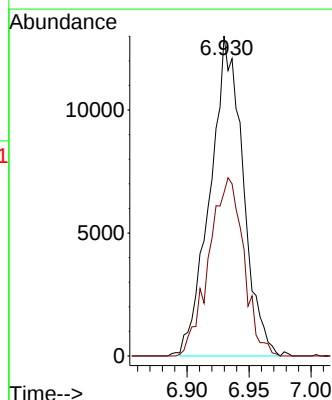
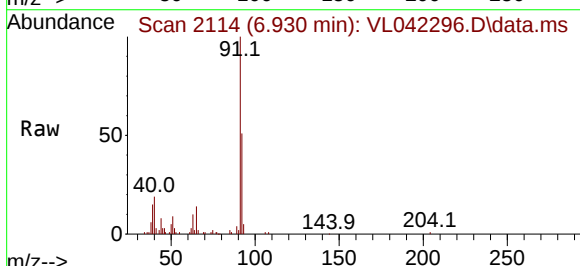
RT: 6.930 min Scan# 2114

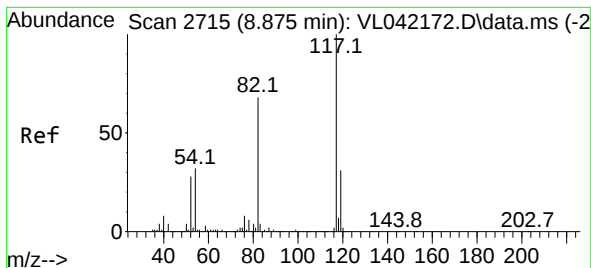
Delta R.T. 0.003 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Tgt Ion: 91	Resp: 24055
Ion Ratio	Lower Upper
91 100	
92 58.8	48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2715

Delta R.T. 0.003 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Instrument :

MSVOA_L

ClientSampleId :

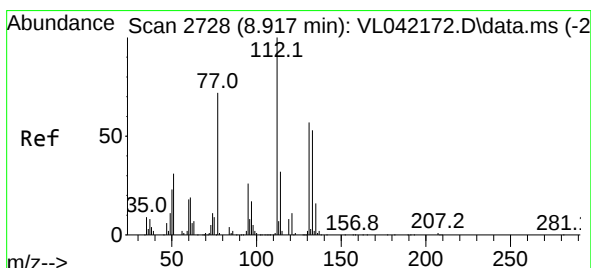
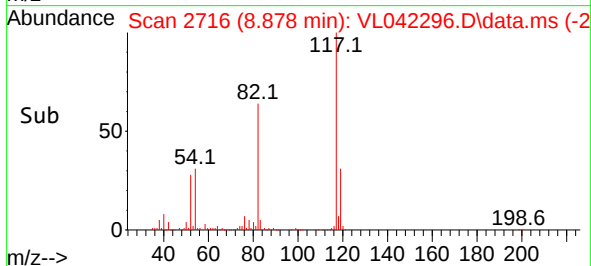
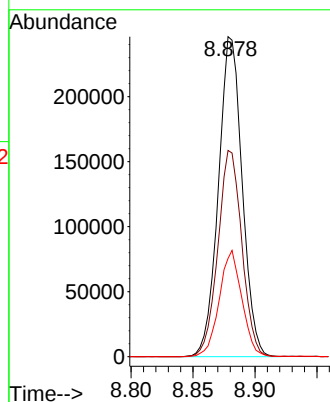
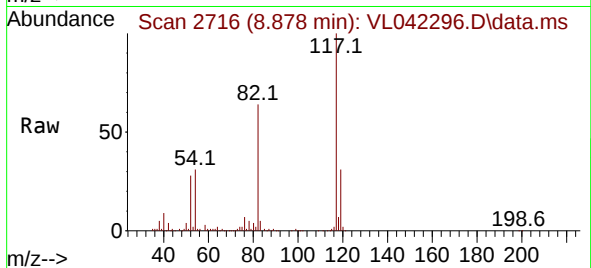
IA-B9-3-3242025

Tgt Ion:	117	Resp:	32913
Ion Ratio	Lower	Upper	
117	100		
82	64.9	55.8	83.6
119	31.8	25.5	38.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#57

Chlorobenzene

Concen: 0.127 ppbv m

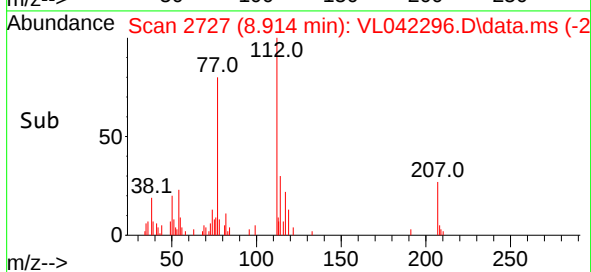
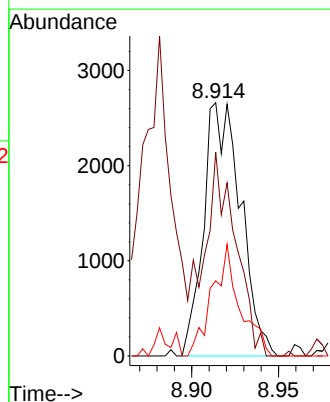
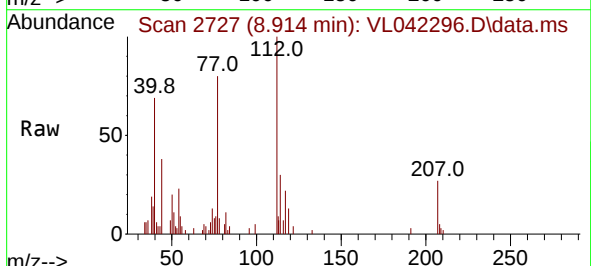
RT: 8.914 min Scan# 2727

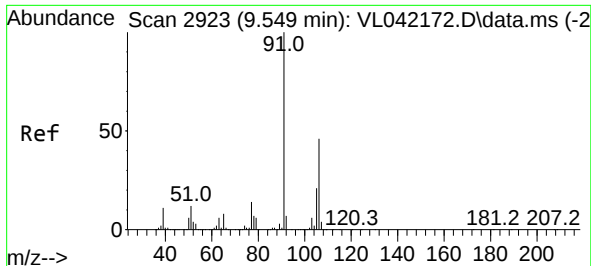
Delta R.T. -0.004 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Tgt Ion:	112	Resp:	3957
Ion Ratio	Lower	Upper	
112	100		
77	80.4	58.2	87.2
114	29.7	29.1	35.5





#59

m/p-Xylene

Concen: 0.221 ppbv m

RT: 9.526 min Scan# 2916

Delta R.T. -0.023 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Instrument :

MSVOA_L

ClientSampleId :

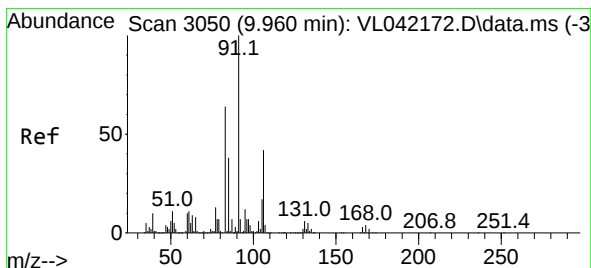
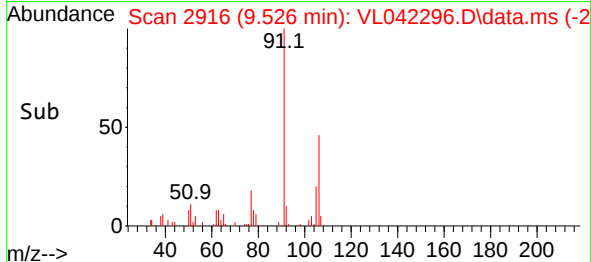
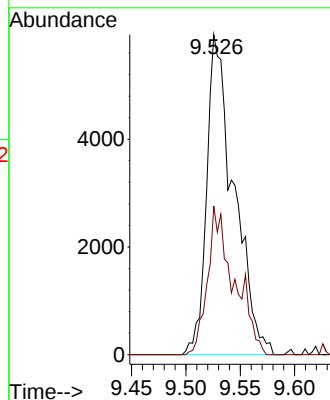
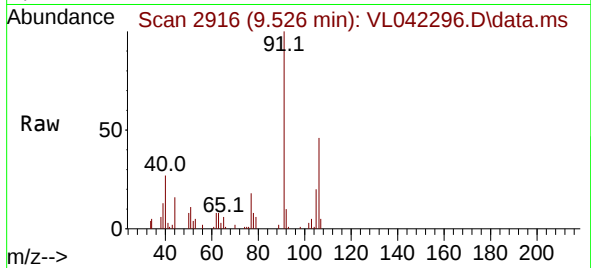
IA-B9-3-3242025

Tgt Ion: 91 Resp: 10330
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.4 54.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#60

o-Xylene

Concen: 0.125 ppbv

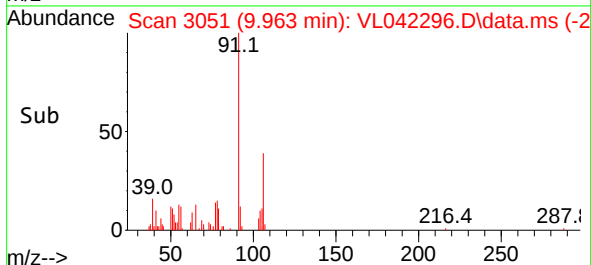
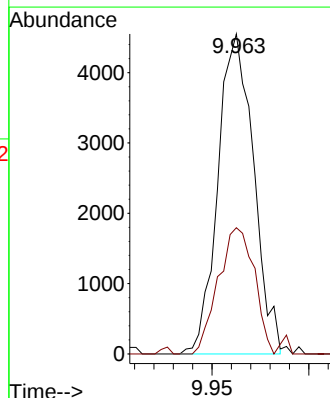
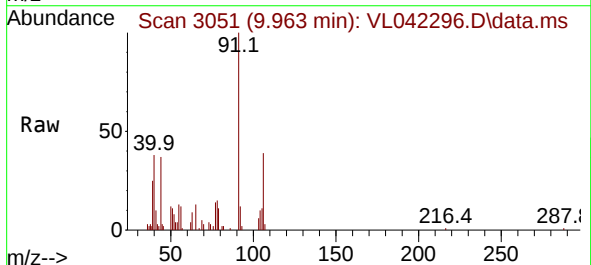
RT: 9.963 min Scan# 3051

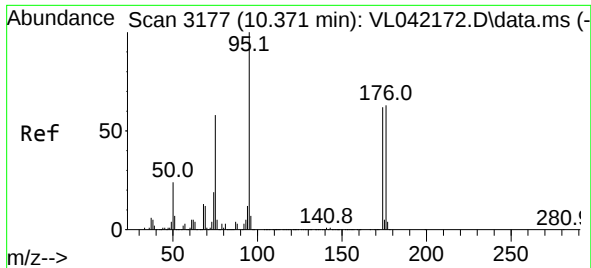
Delta R.T. 0.003 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Tgt Ion: 91 Resp: 5830
 Ion Ratio Lower Upper
 91 100
 106 41.2 20.8 62.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.393 ppbv
 RT: 10.377 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: VL042296.D
 Acq: 09 Apr 2025 16:57

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-3-3242025

Tgt Ion: 95 Resp: 253889
 Ion Ratio Lower Upper
 95 100
 174 62.7 50.6 76.0
 175 4.6 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

