

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042543.D
 Acq On : 14 May 2025 15:22
 Operator : SY/MD
 Sample : Q2037-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:36:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	130699	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.965	114	384048	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	350637	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	285416	9.355	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2656	0.125	ppbv	89
3) Chlorodifluoromethane	1.476	51	13964m	0.646	ppbv	
9) Propene	1.486	41	2823	0.602	ppbv #	1
10) Heptane	4.991	43	7598m	0.424	ppbv	
13) Ethanol	1.722	45	3723m	2.951	ppbv	
15) Acetone	1.839	43	116054	5.509	ppbv	98
20) Methylene Chloride	2.065	84	6263	0.861	ppbv	94
26) Hexane	2.829	57	49602	3.295	ppbv #	39
34) 2-Butanone	2.560	43	37395	1.477	ppbv	100
51) 2-Hexanone	7.444	43	55848	2.525	ppbv #	86
52) Tetrachloroethene	8.228	164	1968m	0.151	ppbv	
53) Toluene	6.943	91	41032	1.229	ppbv	99
58) Ethyl Benzene	9.361	91	38568	0.807	ppbv	94
59) m/p-Xylene	9.535	91	87346	2.058	ppbv #	100
60) o-Xylene	9.966	91	51527	1.243	ppbv	97
62) Isopropylbenzene	10.545	105	23812	0.381	ppbv	97
64) n-propylbenzene	10.992	120	14270	0.900	ppbv	90
65) tert-Butylbenzene	11.539	119	11461	0.200	ppbv #	37
67) sec-Butylbenzene	11.772	105	39676m	0.483	ppbv	
69) p-Isopropyltoluene	11.930	119	22274	0.330	ppbv	98
72) 4-Ethyltoluene	11.131	105	35977	0.700	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.209	105	41636	0.930	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	89411	1.623	ppbv #	60
76) 1,4-Dichlorobenzene	11.675	146	4994	0.152	ppbv #	1

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

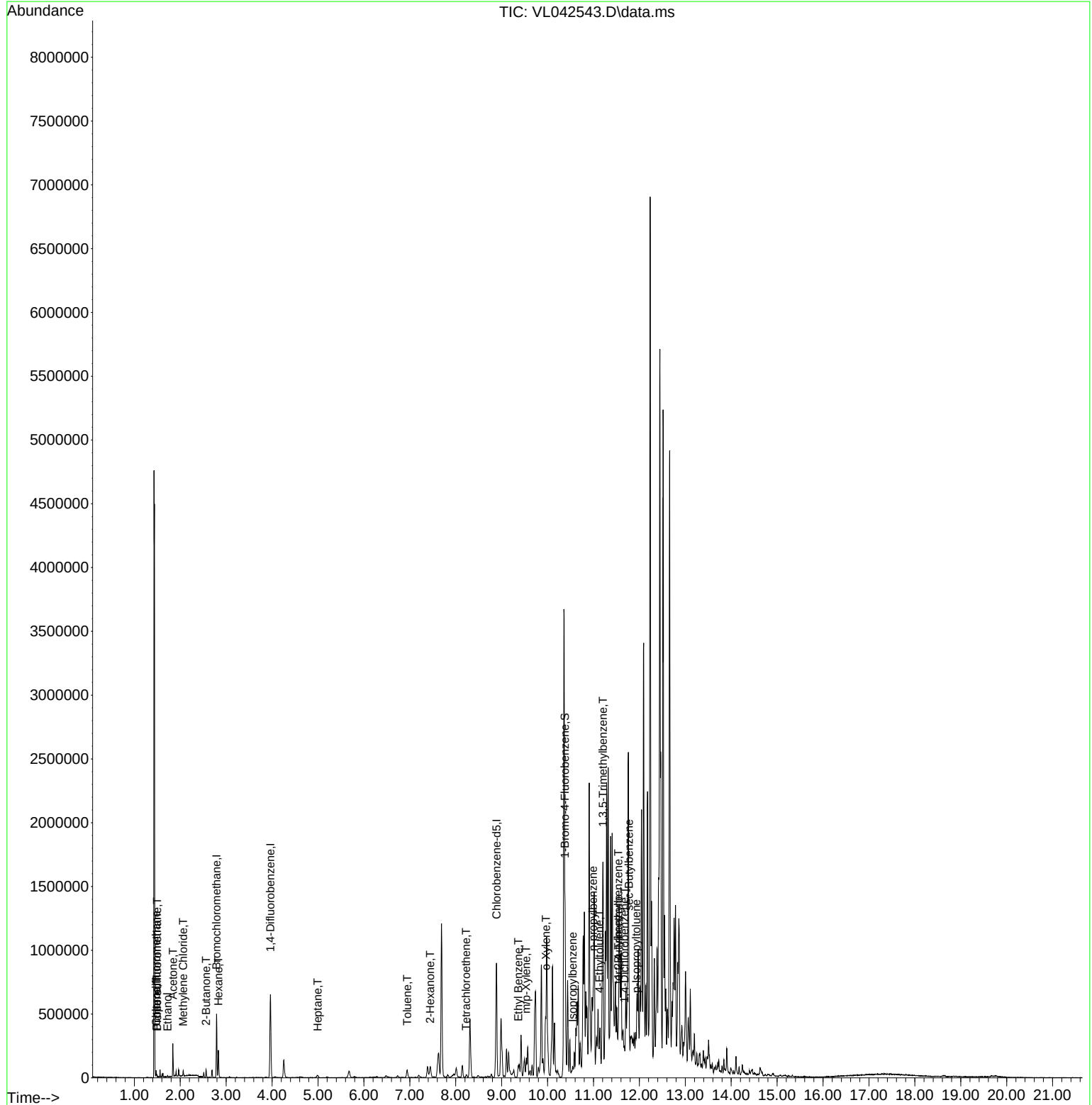
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
Data File : VL042543.D
Acq On : 14 May 2025 15:22
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Misc : 400mL/MSVOA_L
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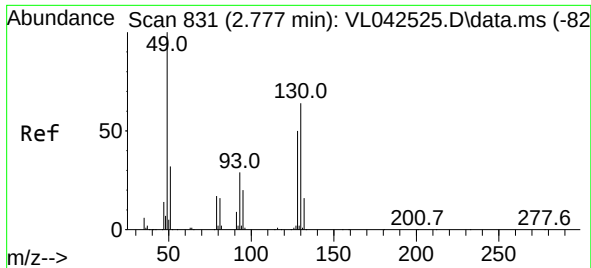
Instrument :
MSVOA_L
ClientSampleId :
SV1

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Supervised By :Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:36:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue May 13 02:07:03 2025
Response via : Initial Calibration





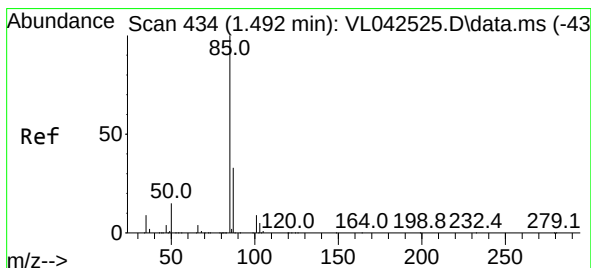
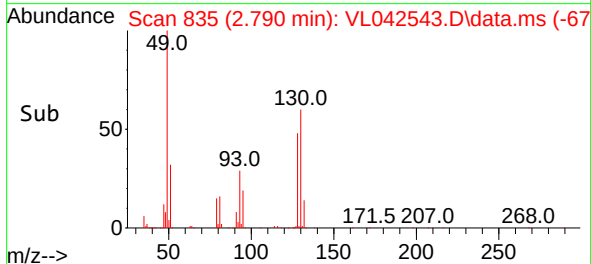
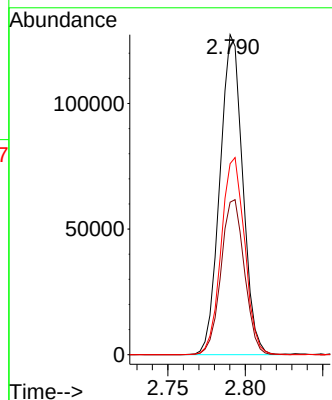
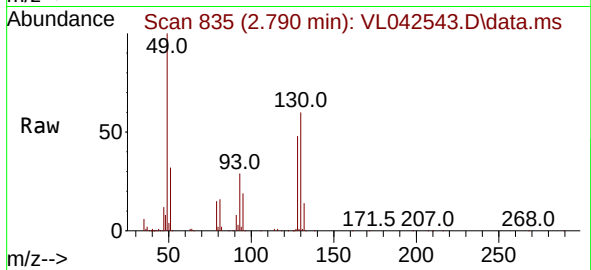
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 130699
Ion Ratio Lower Upper
49 100
128 49.7 24.9 74.6
130 63.3 32.5 97.5

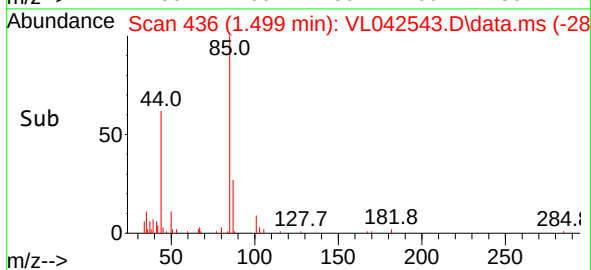
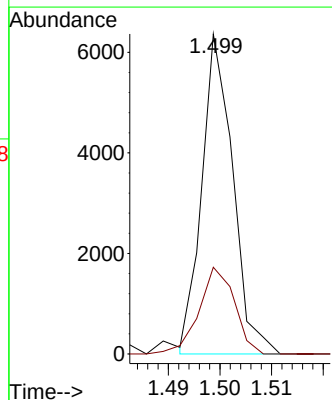
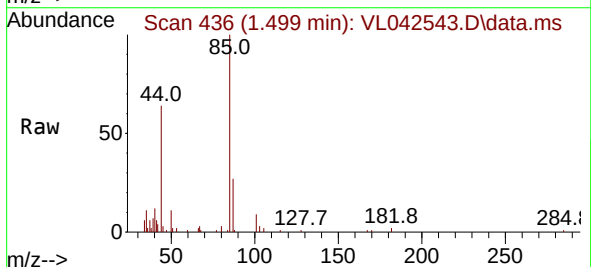
Manual Integrations
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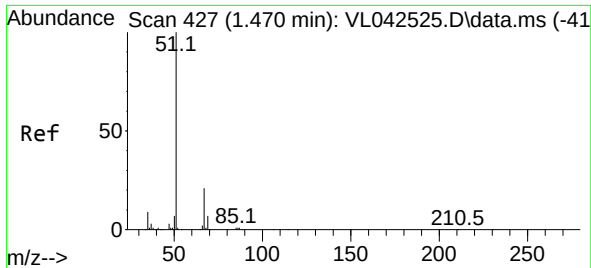
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#2
Dichlorodifluoromethane
Concen: 0.125 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.006 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 85 Resp: 2656
Ion Ratio Lower Upper
85 100
87 27.1 26.8 40.2





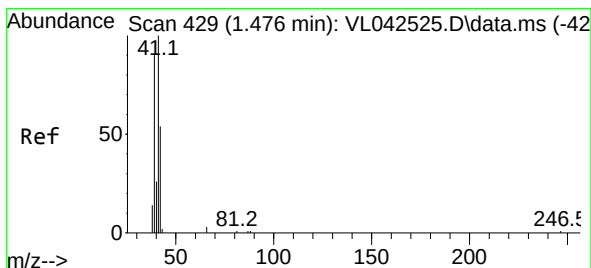
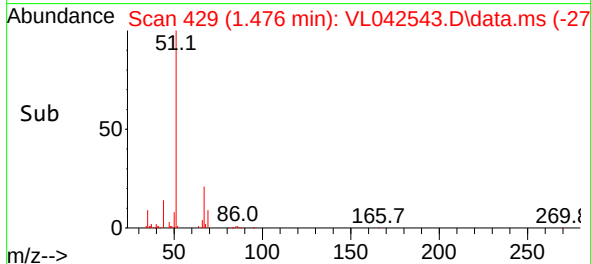
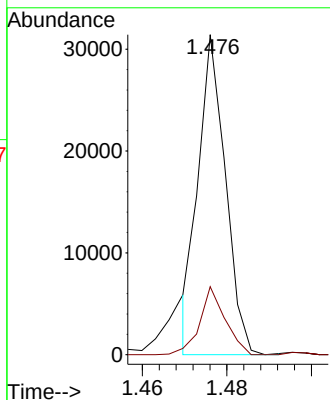
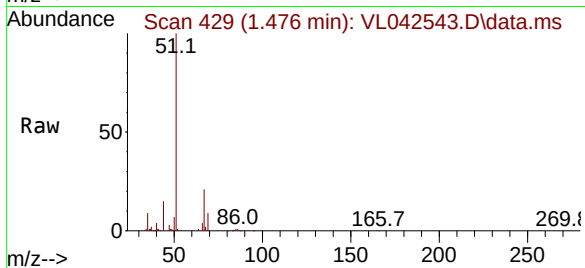
#3
Chlorodifluoromethane
Concen: 0.646 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 51 Resp: 13964
Ion Ratio Lower Upper
51 100
67 20.6 17.4 26.0

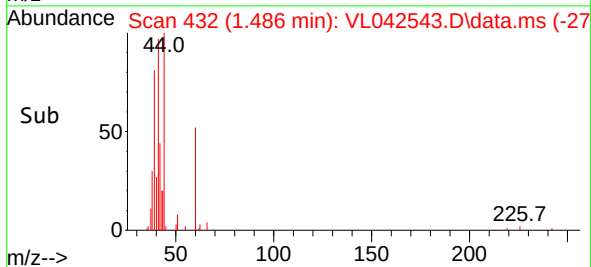
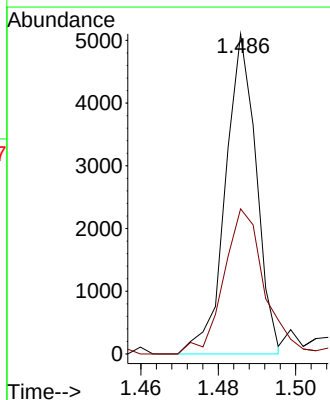
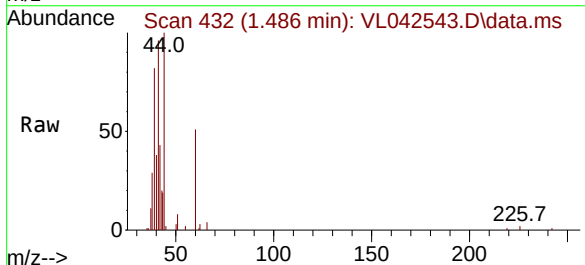
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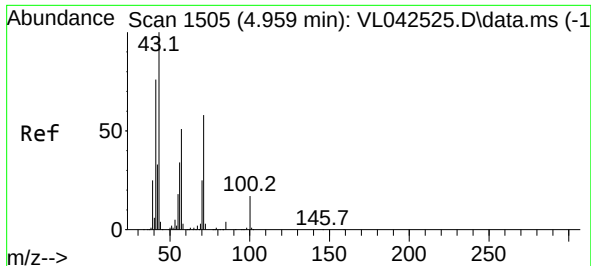
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#9
Propene
Concen: 0.602 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.009 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 41 Resp: 2823
Ion Ratio Lower Upper
41 100
42 61.3 4.1 6.1#





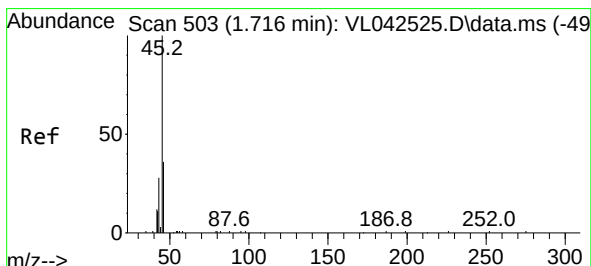
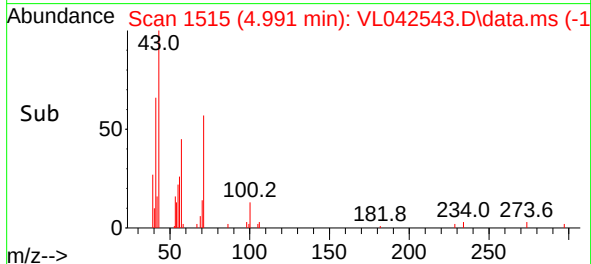
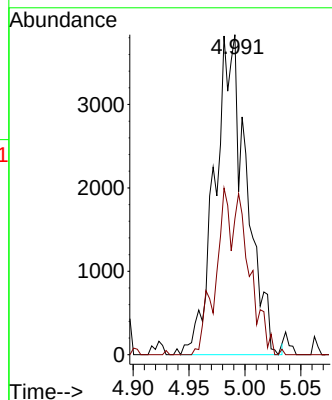
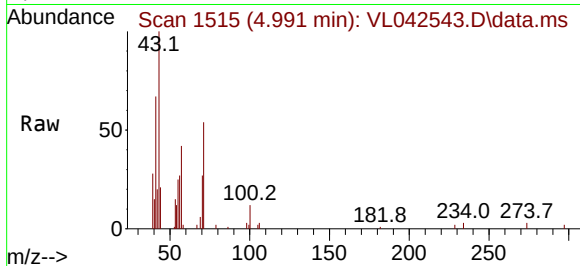
#10
Heptane
Concen: 0.424 ppbv m
RT: 4.991 min Scan# 11
Delta R.T. 0.032 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 7598
Ion Ratio Lower Upper
43 100
57 51.2 42.1 63.1

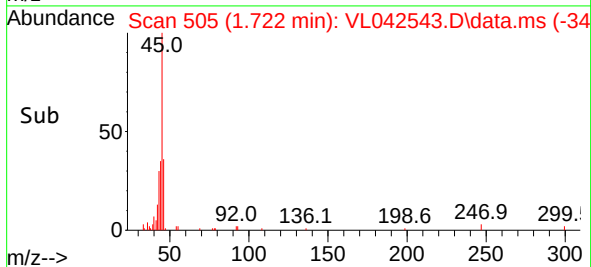
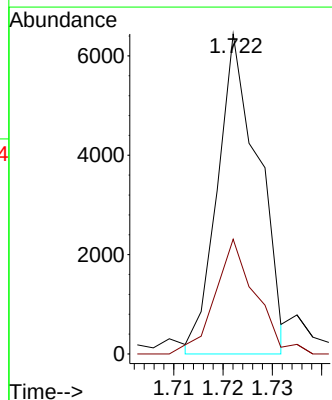
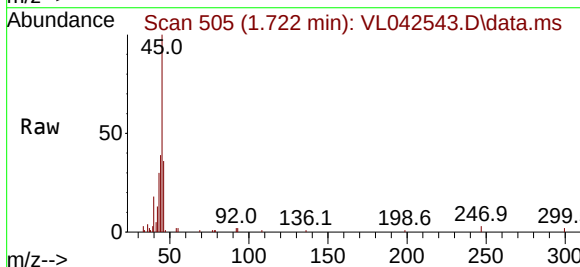
Manual Integrations
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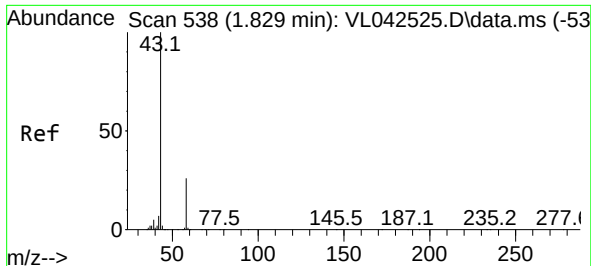
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#13
Ethanol
Concen: 2.951 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 45 Resp: 3723
Ion Ratio Lower Upper
45 100
46 0.0 14.8 59.4#





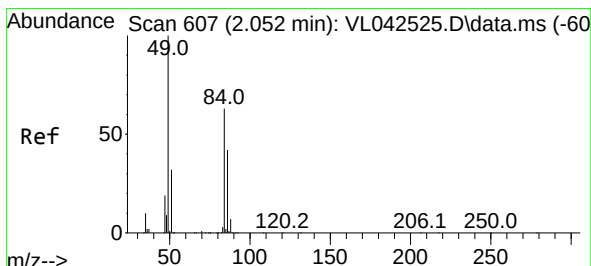
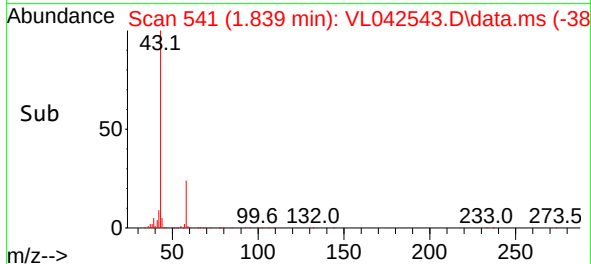
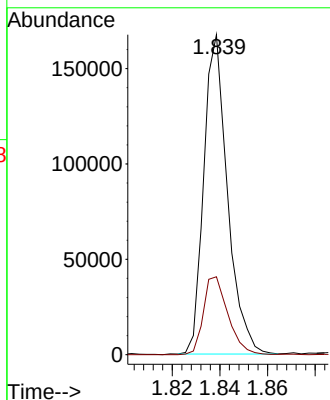
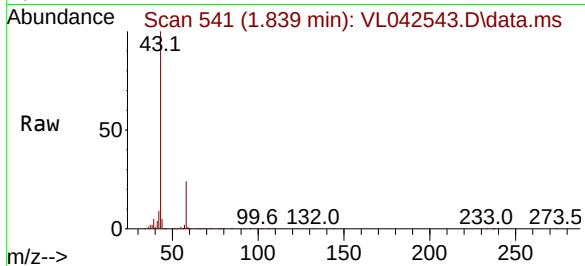
#15
Acetone
Concen: 5.509 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.009 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 116054
Ion Ratio Lower Upper
43 100
58 25.5 21.3 31.9

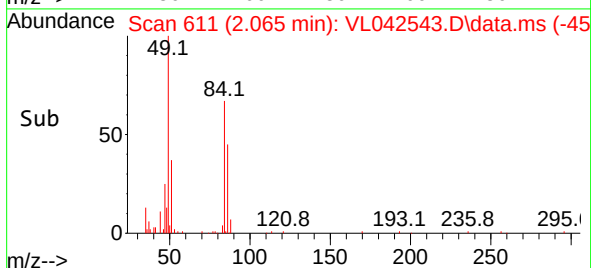
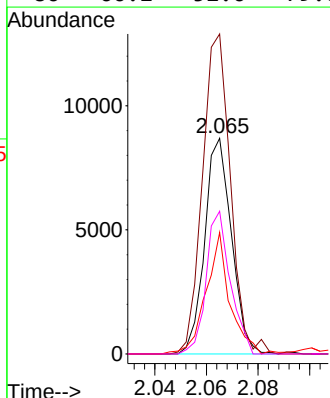
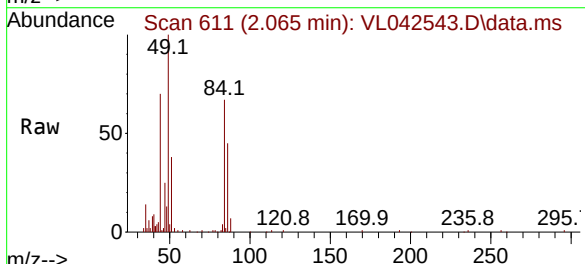
Manual Integrations
APPROVED

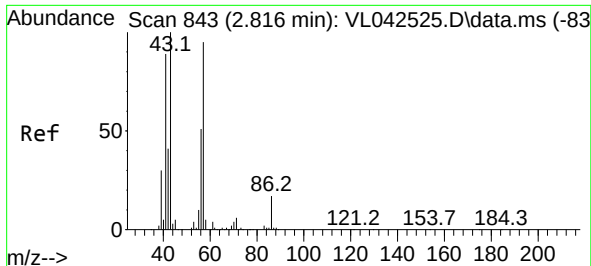
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#20
Methylene Chloride
Concen: 0.861 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

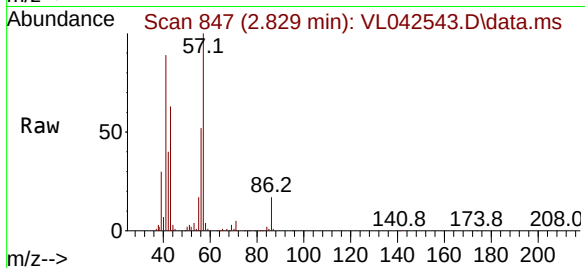
Tgt Ion: 84 Resp: 6263
Ion Ratio Lower Upper
84 100
49 148.4 128.2 192.4
51 55.5 41.7 62.5
86 66.2 52.6 79.0





#26
Hexane
Concen: 3.295 ppbv
RT: 2.829 min Scan# 843
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

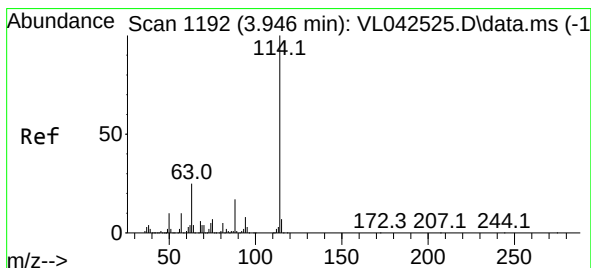
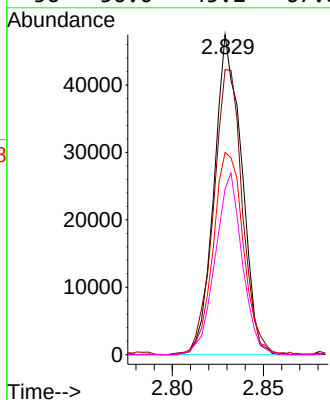
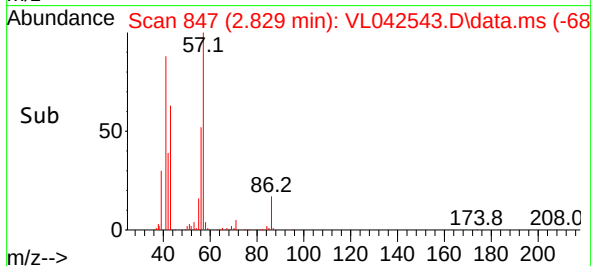
Instrument :
MSVOA_L
ClientSampleId :
SV1



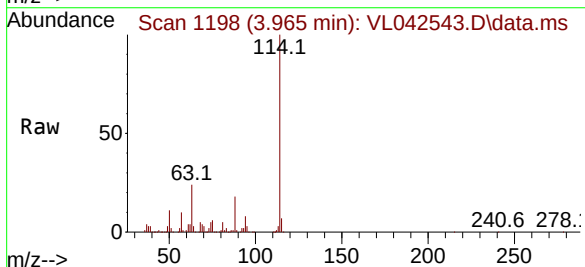
Tgt Ion: 57 Resp: 49602
Ion Ratio Lower Upper
57 100
41 93.9 76.1 114.1
43 70.1 188.9 283.3
56 56.0 45.2 67.8

Manual Integrations
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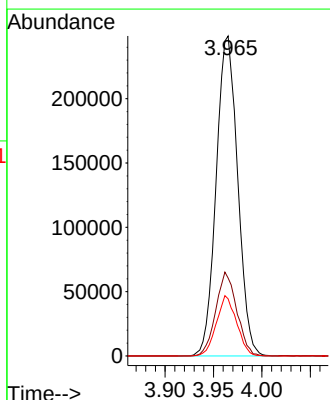
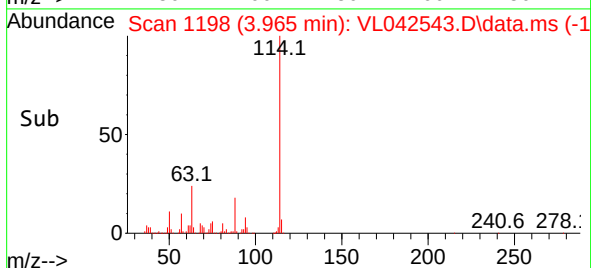
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Supervised By :Mahesh Dadoda 05/15/2025

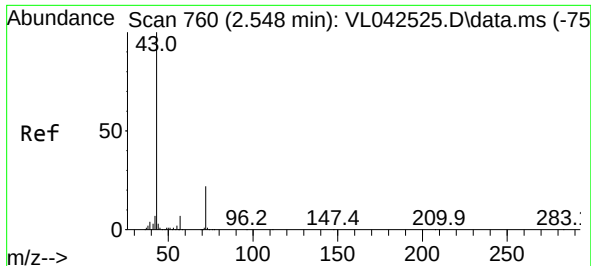


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.019 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22



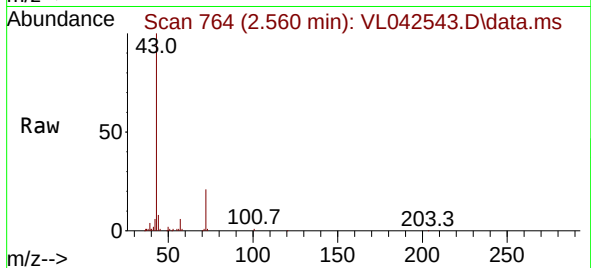
Tgt Ion:114 Resp: 384048
Ion Ratio Lower Upper
114 100
63 25.7 20.4 30.6
88 17.7 14.5 21.7





#34
2-Butanone
Concen: 1.477 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

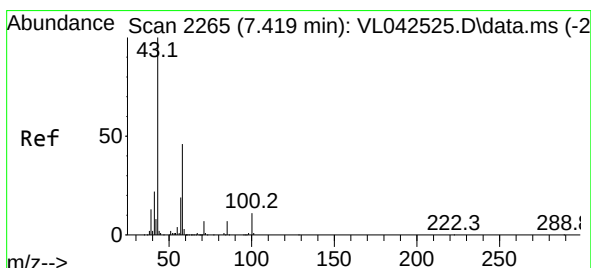
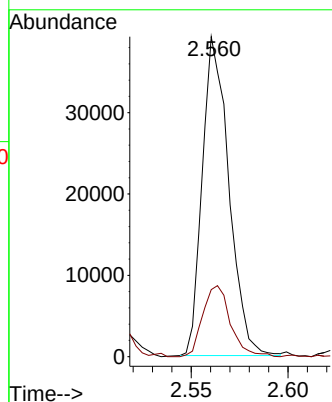
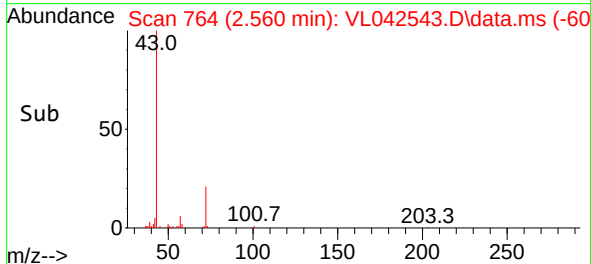
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SV1



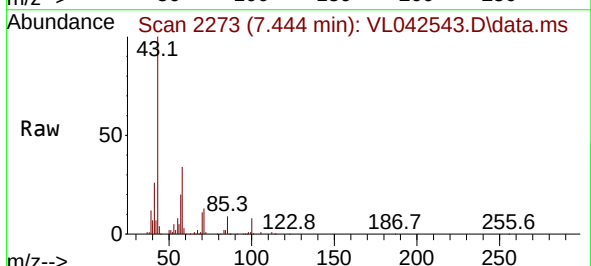
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Ion Ratio Lower Upper
43 100
72 23.6 18.7 28.1

Manual Integrations
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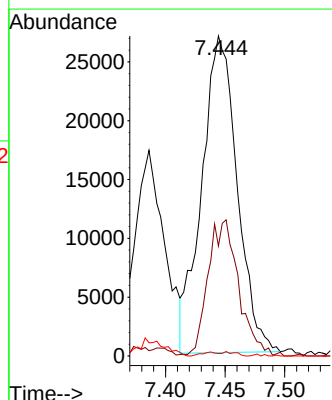
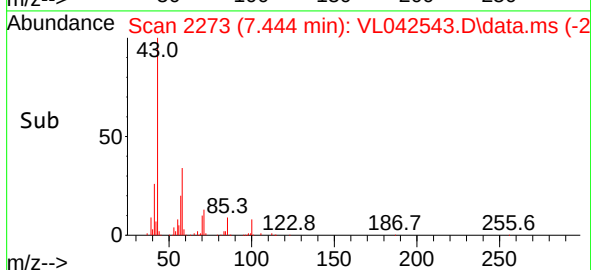
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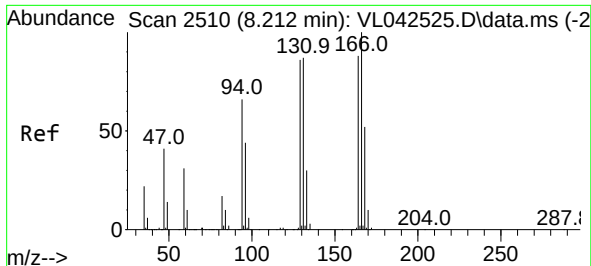


#51
2-Hexanone
Concen: 2.525 ppbv
RT: 7.444 min Scan# 2273
Delta R.T. 0.026 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22



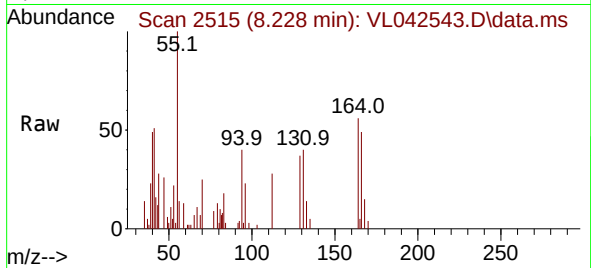
Tgt Ion: 43 Resp: 55848
Ion Ratio Lower Upper
43 100
58 37.2 37.5 56.3#
98 1.2 0.9 1.3





#52
Tetrachloroethene
Concen: 0.151 ppbv m
RT: 8.228 min Scan# 2118
Delta R.T. 0.016 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

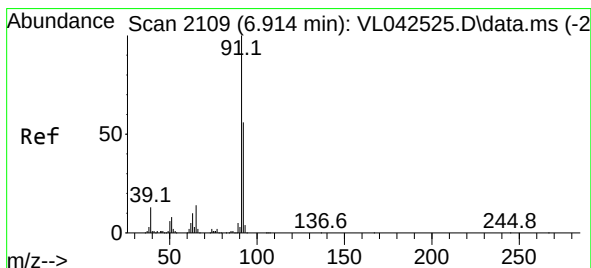
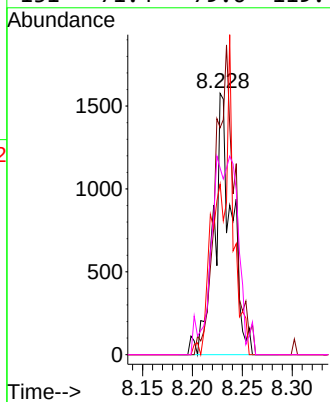
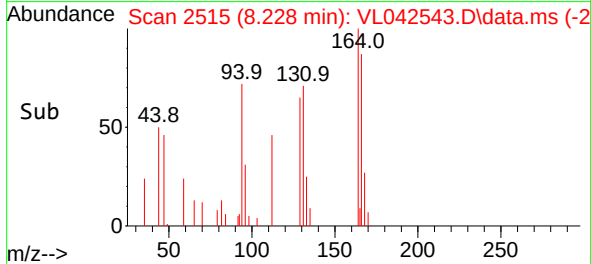
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 1968
Ion Ratio Lower Upper
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131 71.4 79.6 119.4

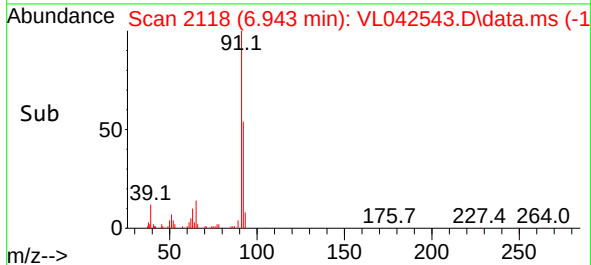
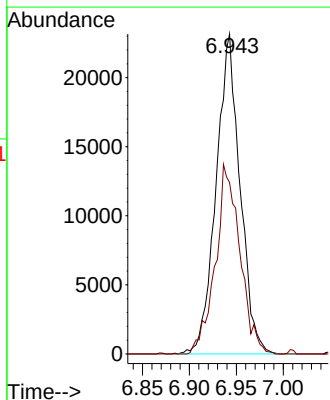
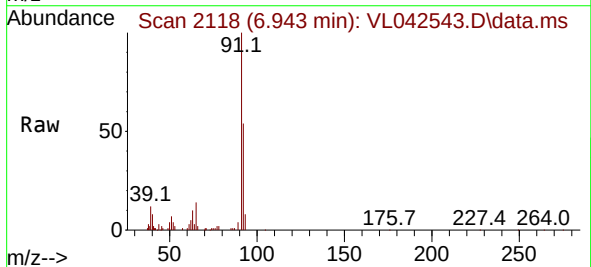
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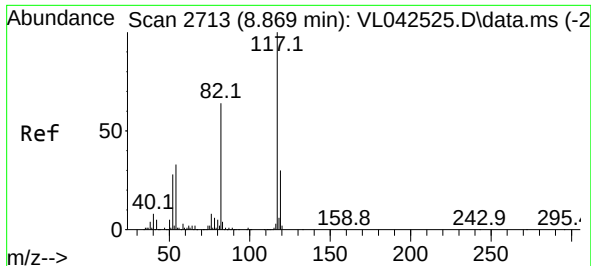
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#53
Toluene
Concen: 1.229 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.029 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

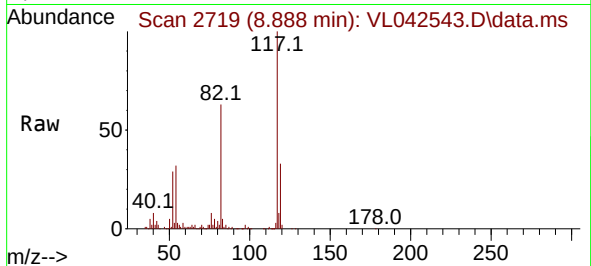
Tgt Ion: 91 Resp: 41032
Ion Ratio Lower Upper
91 100
92 60.5 47.8 71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.019 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

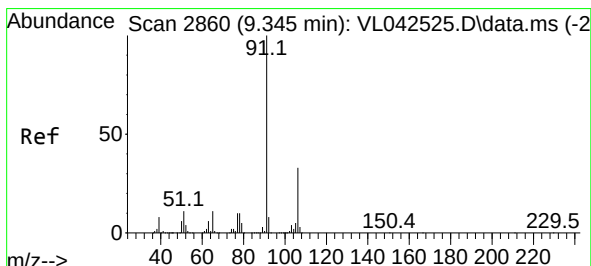
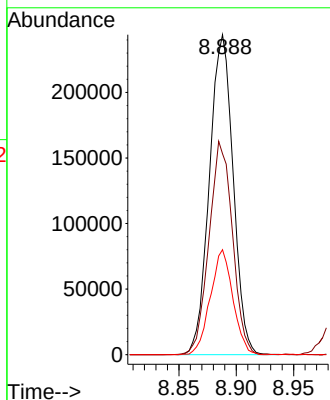
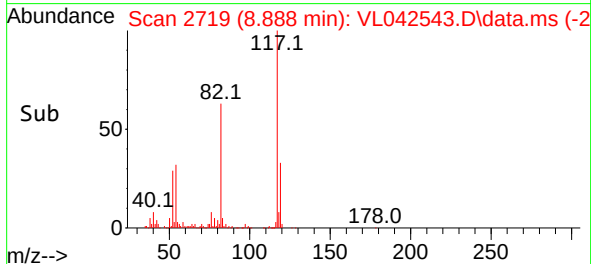
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 117 Resp: 35063
Ion Ratio Lower Upper
117 100
82 66.1 55.0 82.4
119 31.4 25.8 38.6

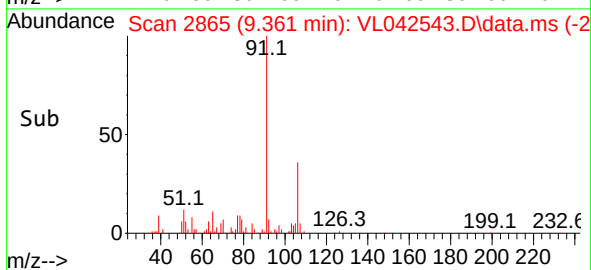
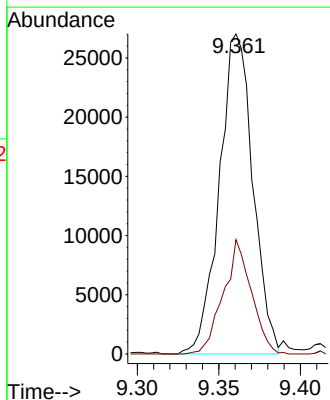
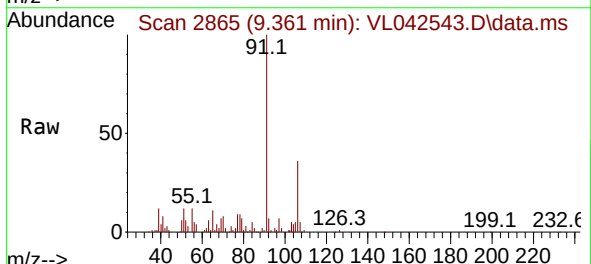
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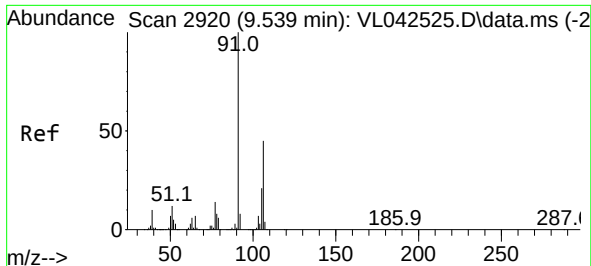
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#58
Ethyl Benzene
Concen: 0.807 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.016 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 91 Resp: 38568
Ion Ratio Lower Upper
91 100
106 35.7 26.0 39.0





#59

m/p-Xylene

Concen: 2.058 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.003 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 87340

Ion Ratio Lower Upper

91 100

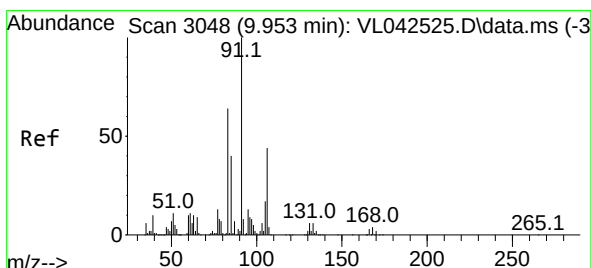
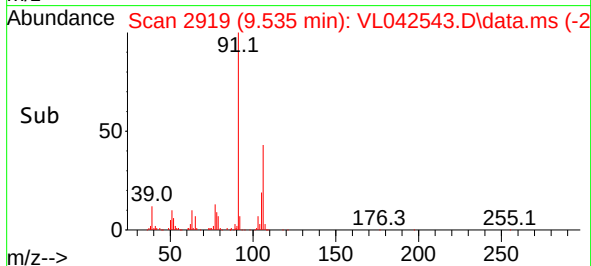
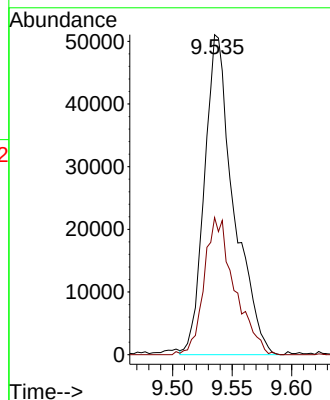
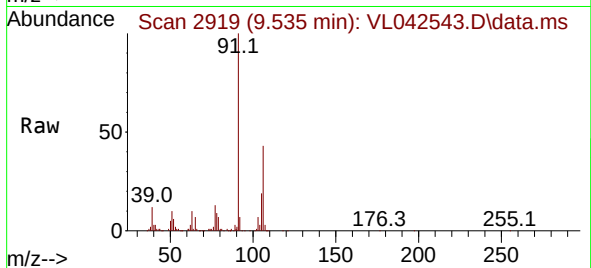
106 44.5 0.0 0.0

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APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#60

o-Xylene

Concen: 1.243 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.013 min

Lab File: VL042543.D

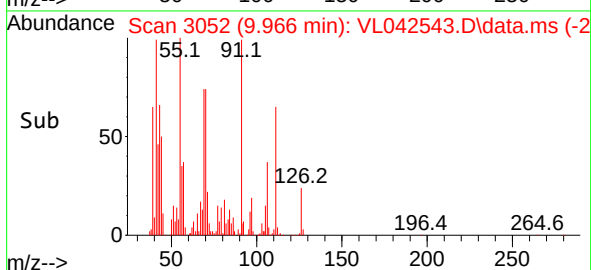
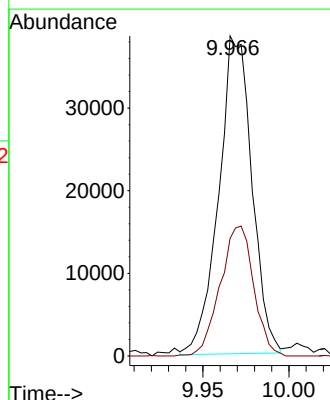
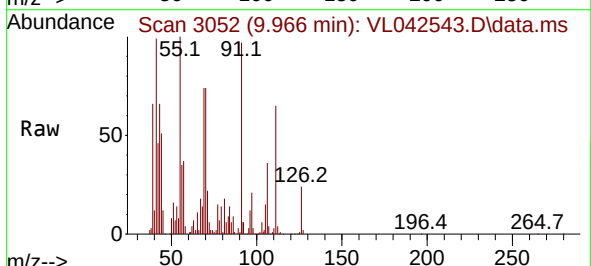
Acq: 14 May 2025 15:22

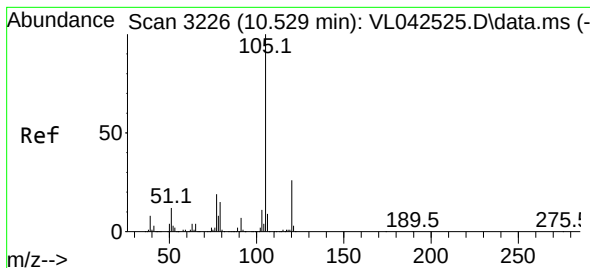
Tgt Ion: 91 Resp: 51527

Ion Ratio Lower Upper

91 100

106 41.3 21.6 64.6





#62

Isopropylbenzene

Concen: 0.381 ppbv

RT: 10.545 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 2381

Ion Ratio Lower Upper

105 100

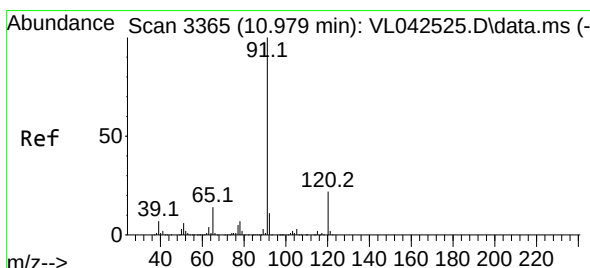
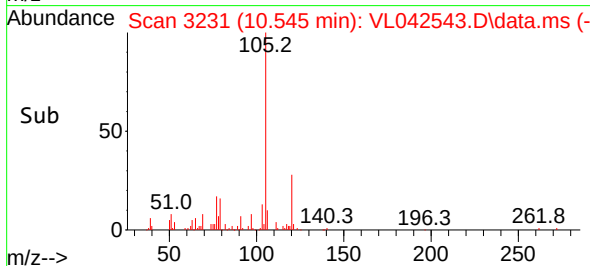
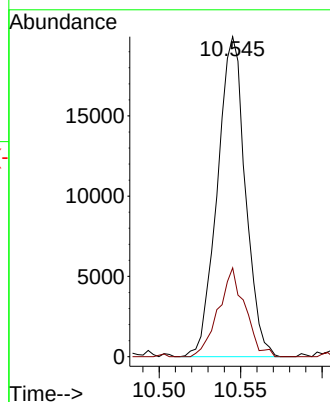
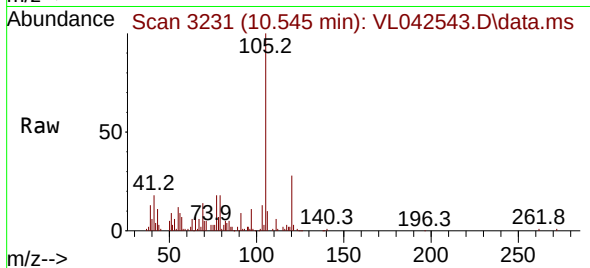
120 26.4 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#64

n-propylbenzene

Concen: 0.900 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. 0.013 min

Lab File: VL042543.D

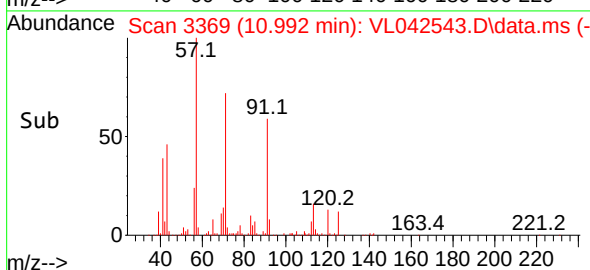
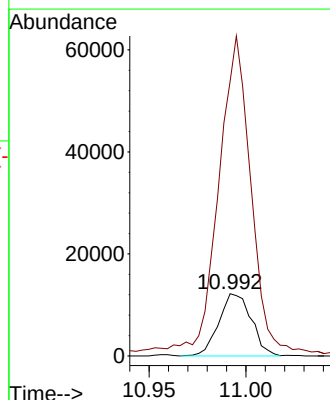
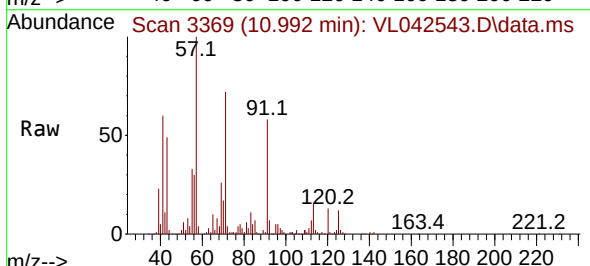
Acq: 14 May 2025 15:22

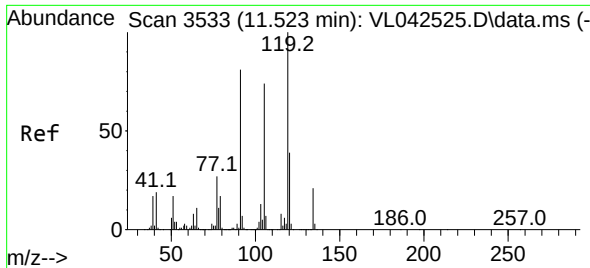
Tgt Ion:120 Resp: 14270

Ion Ratio Lower Upper

120 100

91 499.0 377.7 566.5





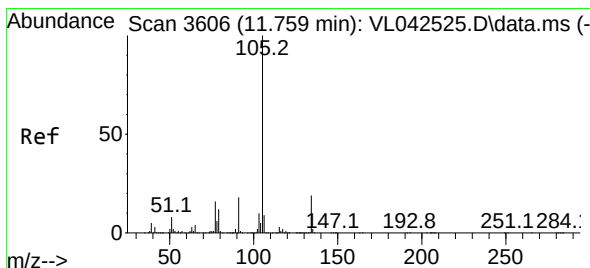
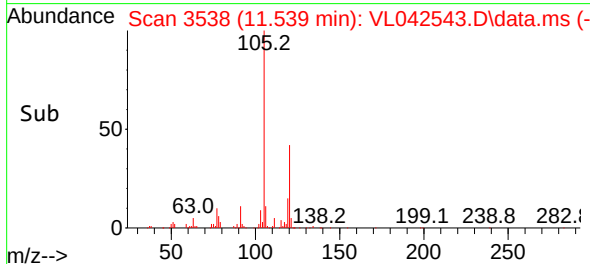
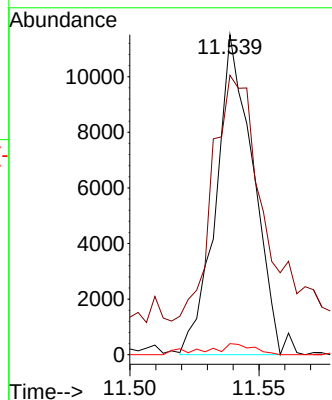
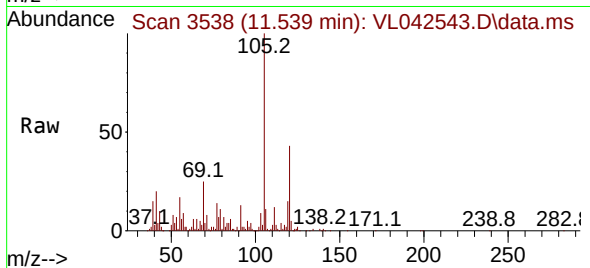
#65
tert-Butylbenzene
Concen: 0.200 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.016 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:119 Resp: 1146
Ion Ratio Lower Upper
119 100
91 145.8 66.6 99.8
134 4.3 16.3 24.5

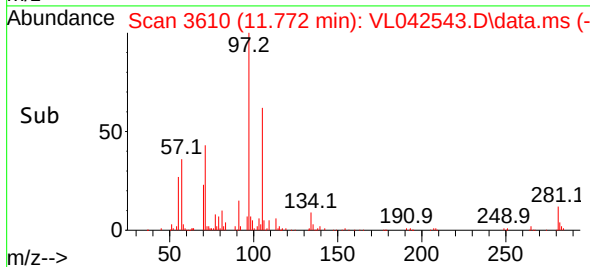
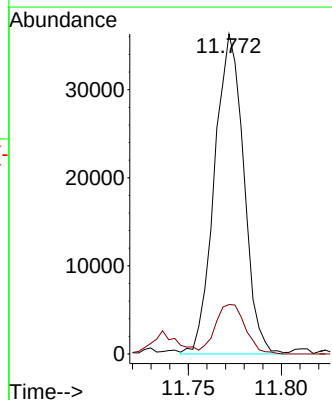
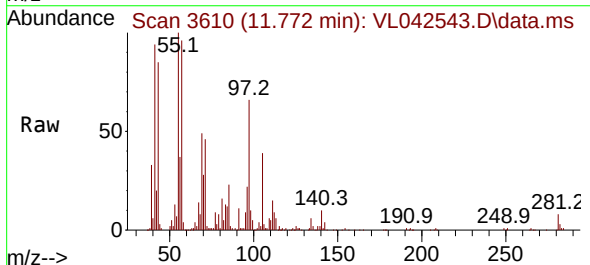
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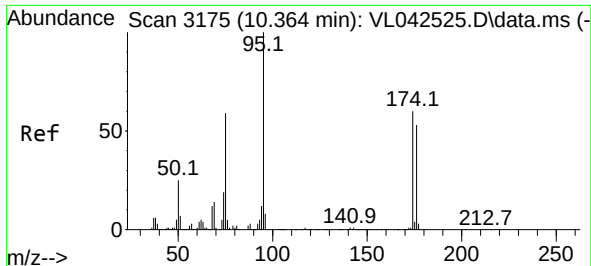
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#67
sec-Butylbenzene
Concen: 0.483 ppbv m
RT: 11.772 min Scan# 3610
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

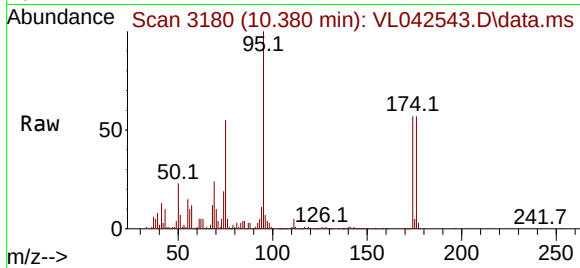
Tgt Ion:105 Resp: 39676
Ion Ratio Lower Upper
105 100
134 1.7 14.9 22.3





#68
1-Bromo-4-Fluorobenzene
Concen: 9.355 ppbv
RT: 10.380 min Scan# 3175
Delta R.T. 0.016 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

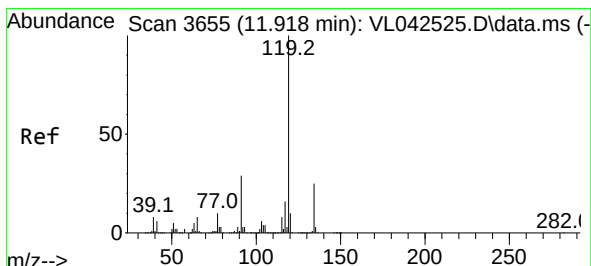
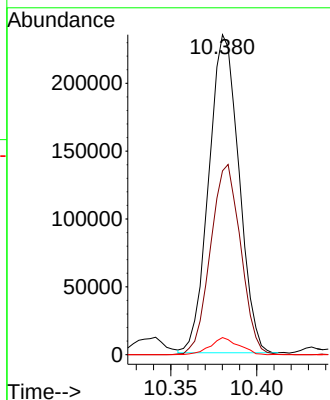
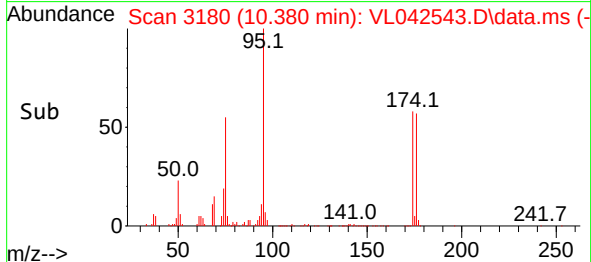
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 95 Resp: 285410
Ion Ratio Lower Upper
95 100
174 59.9 48.0 72.0
175 5.1 3.5 5.3

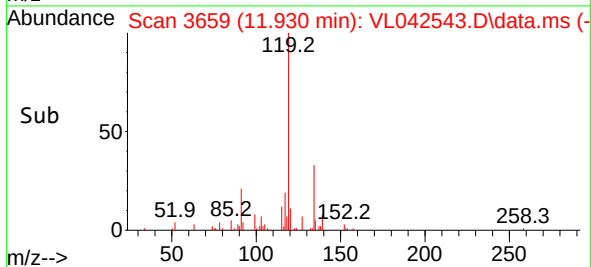
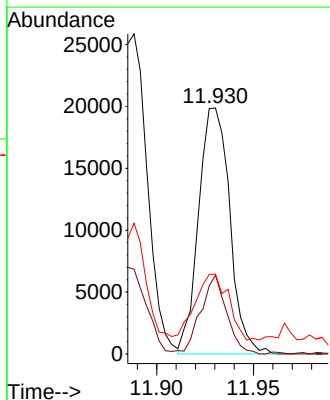
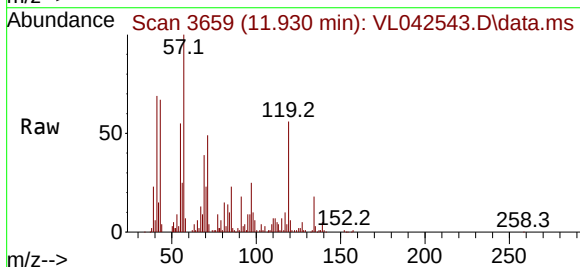
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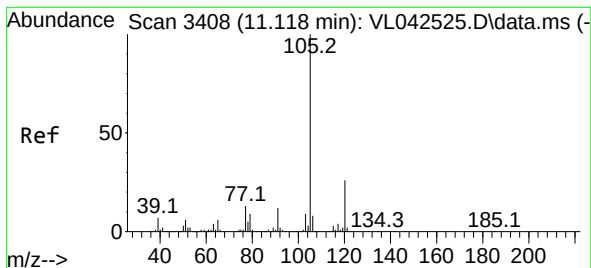
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#69
p-Isopropyltoluene
Concen: 0.330 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

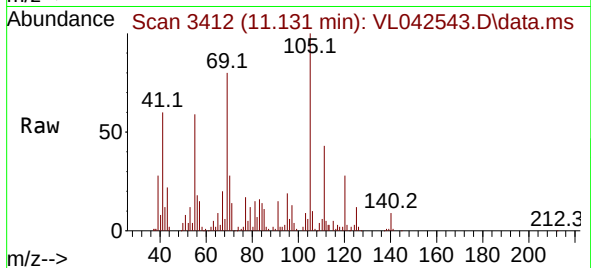
Tgt Ion:119 Resp: 22274
Ion Ratio Lower Upper
119 100
134 26.9 19.8 29.6
91 29.0 23.6 35.4





#72
4-Ethyltoluene
Concen: 0.700 ppbv
RT: 11.131 min Scan# 3408
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

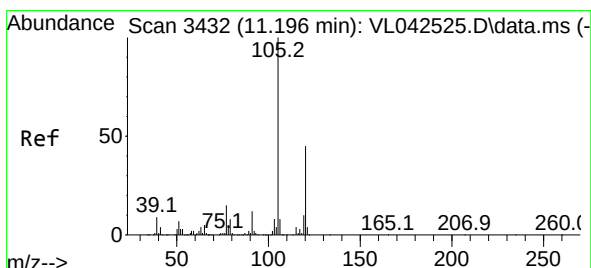
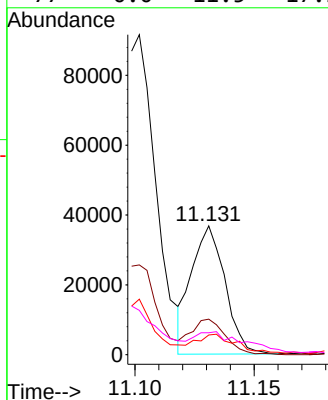
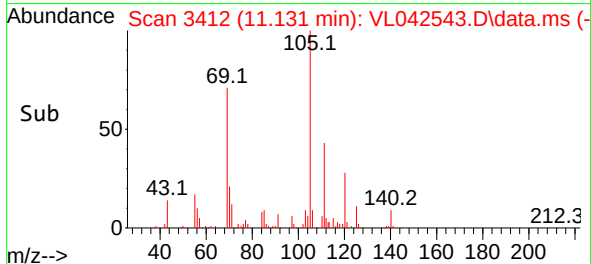
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:105 Resp: 3597
Ion Ratio Lower Upper
105 100
120 0.0 22.9 34.3
91 0.0 10.9 16.3
77 0.0 11.5 17.3#

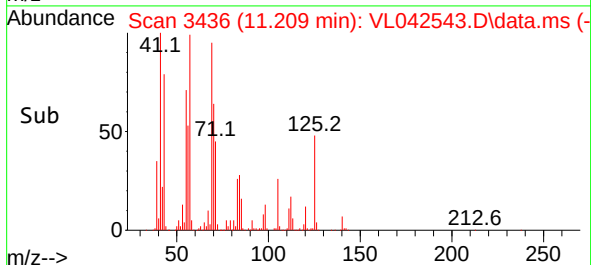
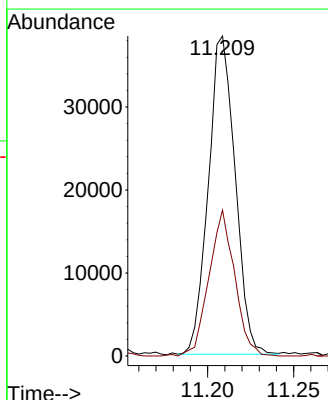
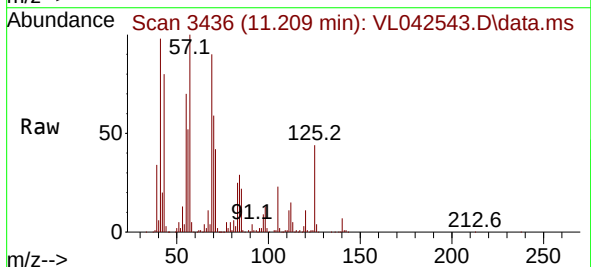
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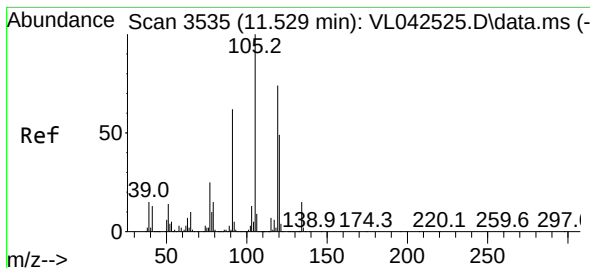
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.930 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion:105 Resp: 41636
Ion Ratio Lower Upper
105 100
120 45.8 36.0 54.0





#74

1,2,4-Trimethylbenzene

Concen: 1.623 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.013 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

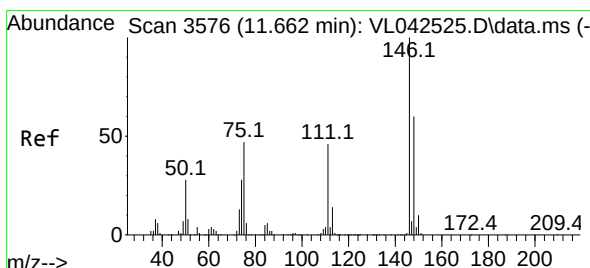
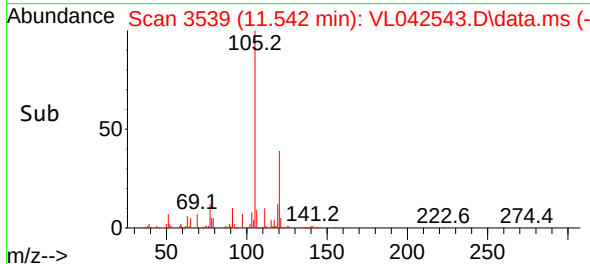
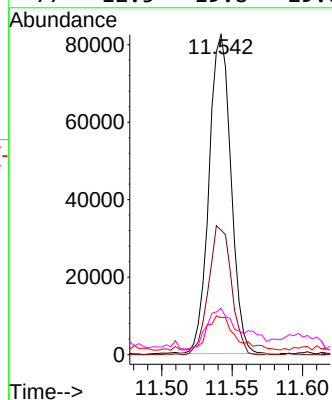
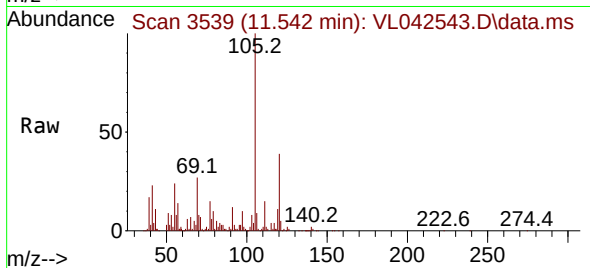
SV1

Tgt Ion:	105	Resp:	8941
Ion Ratio	Lower	Upper	
105	100		
120	38.9	39.0	58.6
91	10.1	49.4	74.2
77	12.5	19.8	29.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#76

1,4-Dichlorobenzene

Concen: 0.152 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.013 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Tgt Ion:	146	Resp:	4994
Ion Ratio	Lower	Upper	
146	100		
111	864.8	23.4	70.3
148	65.0	31.6	94.7

