

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
 Data File : VL043318.D
 Acq On : 08 Dec 2025 18:11
 Operator : SY/MD
 Sample : Q3797-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
 Supervised By :Mahesh Dadoda 12/11/2025

Quant Time: Dec 09 00:14:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	136415	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	365129	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	291200	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	228919	10.725	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	8814	0.458	ppbv	95
3) Chlorodifluoromethane	1.470	51	9356m	0.494	ppbv	
4) Chloromethane	1.528	50	3400	0.473	ppbv	95
9) Propene	1.486	41	13195	1.642	ppbv #	1
10) Heptane	4.959	43	7600m	0.318	ppbv	
11) Trichlorofluoromethane	1.874	101	4602	0.247	ppbv	90
13) Ethanol	1.716	45	419351	148.421	ppbv	99
15) Acetone	1.829	43	315277	16.635	ppbv	99
17) tert-Butyl alcohol	2.036	59	4705	0.189	ppbv #	94
19) Isopropyl Alcohol	1.881	45	150303	14.034	ppbv #	76
20) Methylene Chloride	2.056	84	16804	2.413	ppbv	93
26) Hexane	2.820	57	9660	0.539	ppbv	90
29) Chloroform	2.839	83	108046	4.242	ppbv	98
34) 2-Butanone	2.548	43	42408	1.645	ppbv	99
35) Carbon Tetrachloride	3.745	117	1552m	0.056	ppbv	
36) Benzene	3.645	78	7357	0.210	ppbv	95
41) Tetrahydrofuran	3.043	42	29405	2.066	ppbv	98
43) Methyl Methacrylate	4.862	69	31796	1.713	ppbv	99
52) Tetrachloroethene	8.196	164	587m	0.045	ppbv	
53) Toluene	6.911	91	28236	0.682	ppbv	99
58) Ethyl Benzene	9.335	91	9277m	0.166	ppbv	
59) m/p-Xylene	9.516	91	34215m	0.761	ppbv	
60) o-Xylene	9.947	91	12433	0.277	ppbv	99
61) Styrene	9.856	104	6568	0.334	ppbv	94
74) 1,2,4-Trimethylbenzene	11.526	105	10850	0.217	ppbv #	47

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

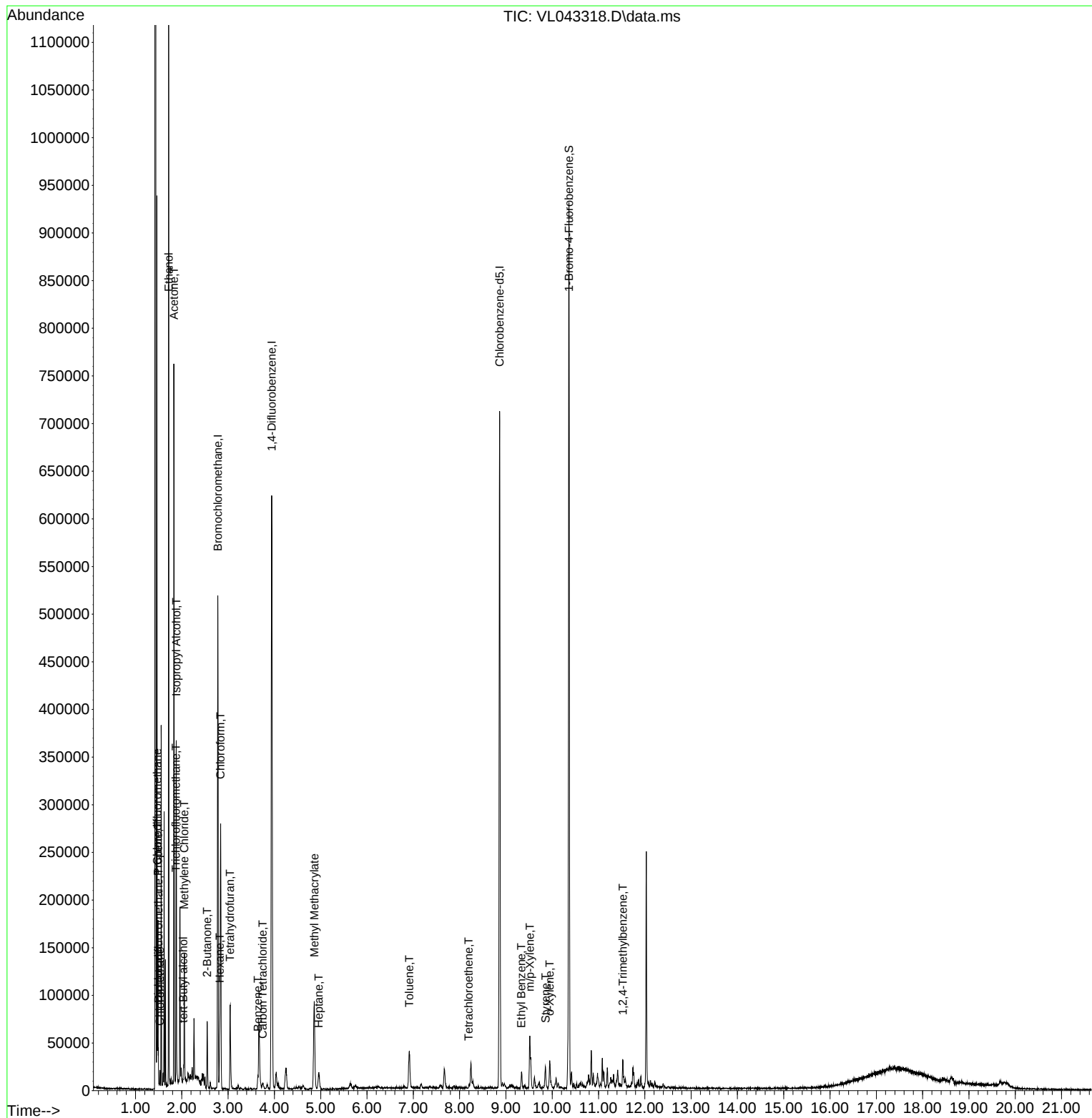
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043318.D
Acq On : 08 Dec 2025 18:11
Operator : SY/MD
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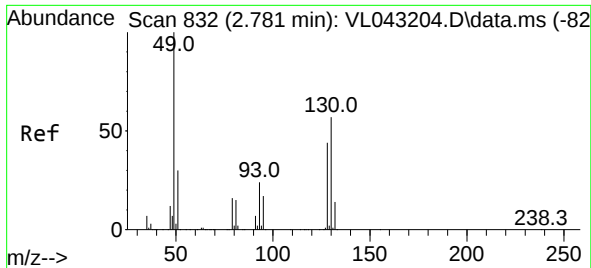
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Dec 09 00:14:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

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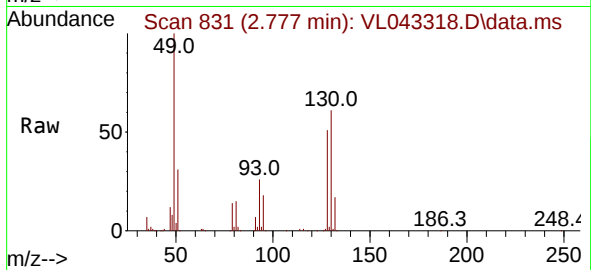
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 811
Delta R.T. -0.004 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

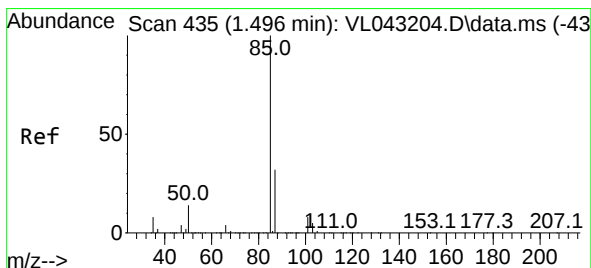
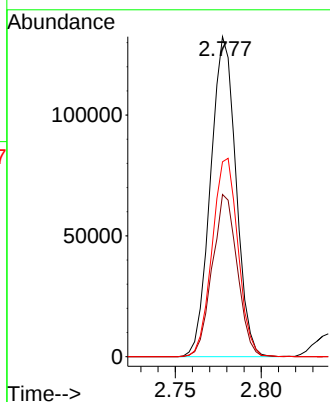
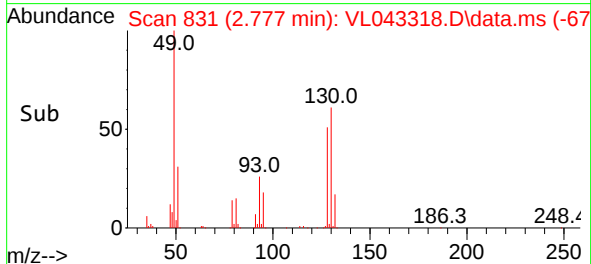
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 49 Resp: 136415
Ion Ratio Lower Upper
49 100
128 49.8 23.0 69.0
130 62.7 29.9 89.7

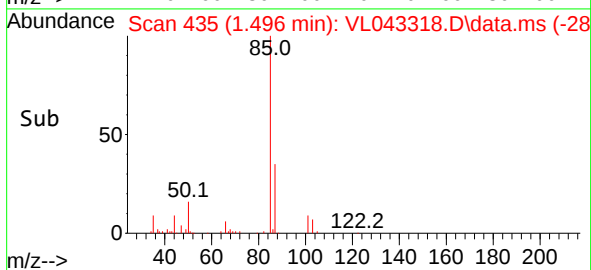
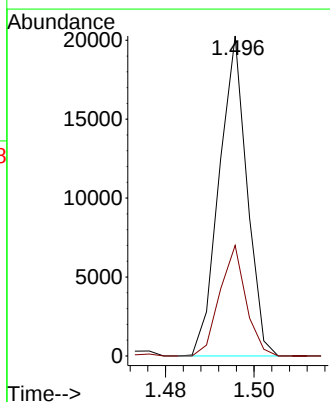
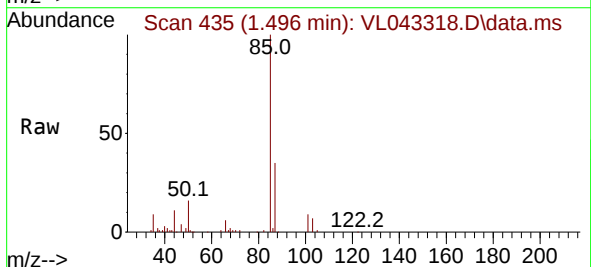
Manual Integrations
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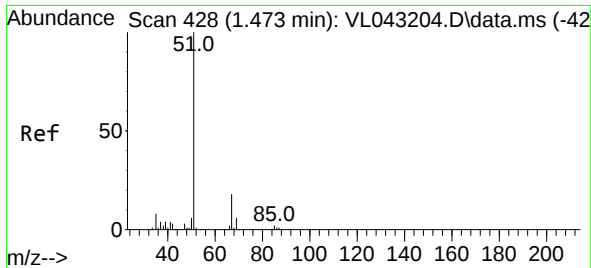
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#2
Dichlorodifluoromethane
Concen: 0.458 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

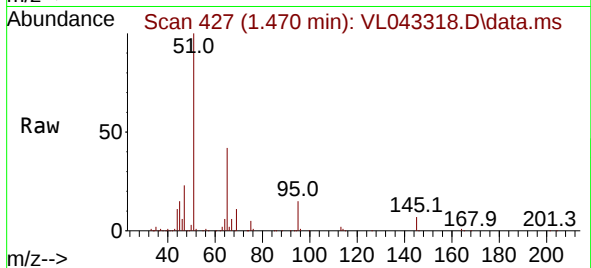
Tgt Ion: 85 Resp: 8814
Ion Ratio Lower Upper
85 100
87 34.6 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.494 ppbv m
RT: 1.470 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

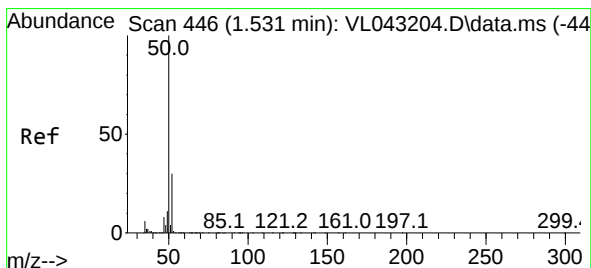
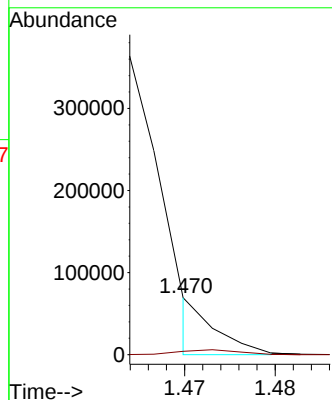
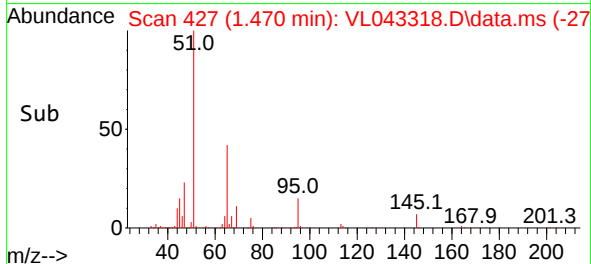
Instrument :
MSVOA_L
ClientSampleId :
IA2



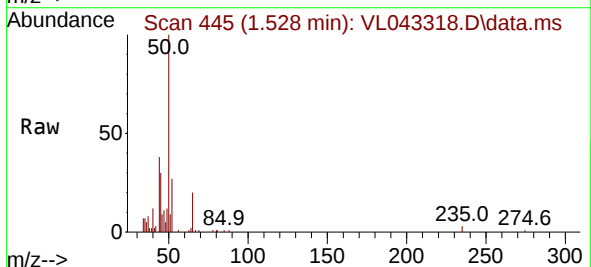
Tgt Ion: 51 Resp: 9350
Ion Ratio Lower Upper
51 100
67 30.8 14.9 22.3

Manual Integrations
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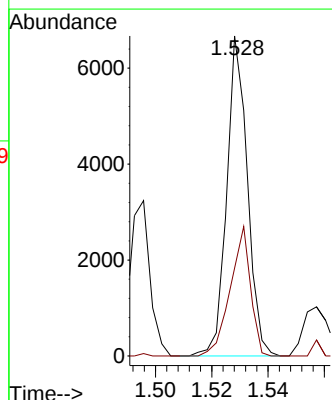
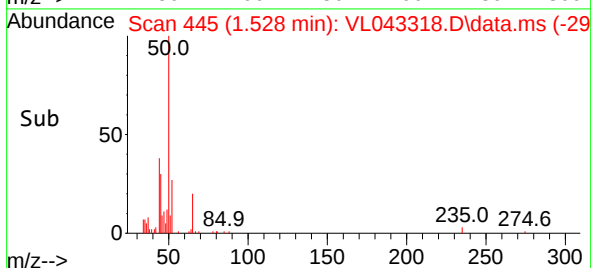
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

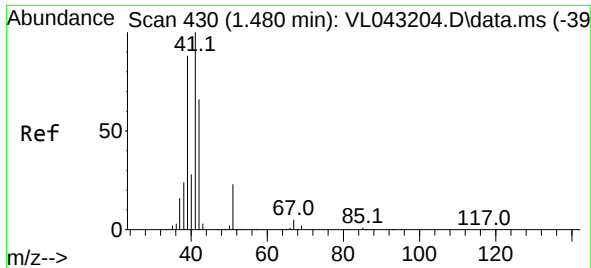


#4
Chloromethane
Concen: 0.473 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11



Tgt Ion: 50 Resp: 3400
Ion Ratio Lower Upper
50 100
52 27.5 24.1 36.1





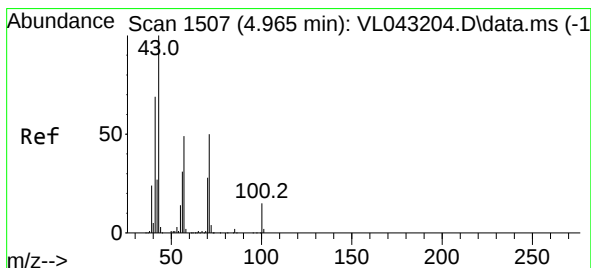
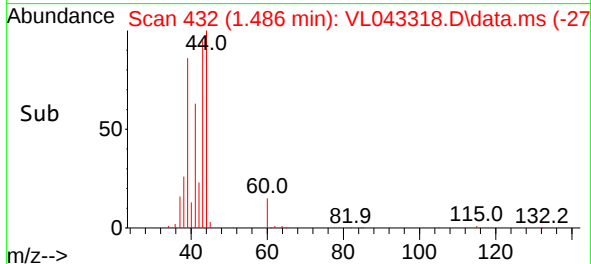
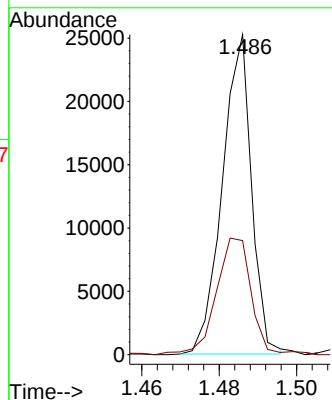
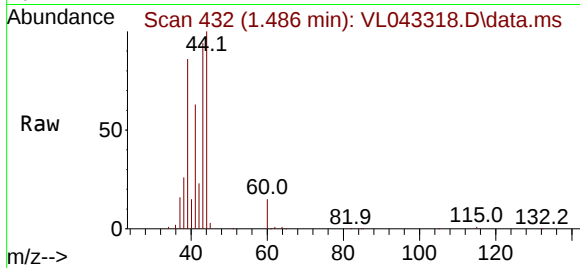
#9
 Propene
 Concen: 1.642 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL043318.D
 Acq: 08 Dec 2025 18:11

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Tgt Ion: 41 Resp: 1319
 Ion Ratio Lower Upper
 41 100
 42 45.3 3.7 5.5

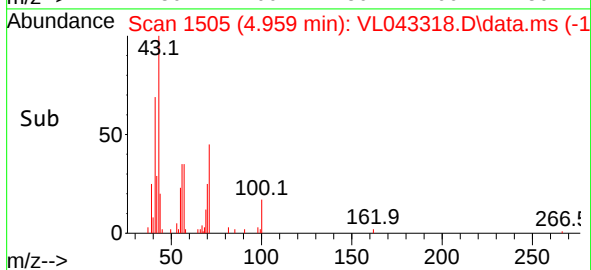
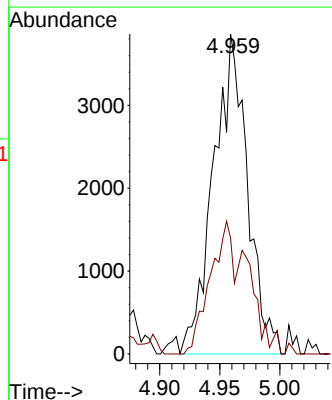
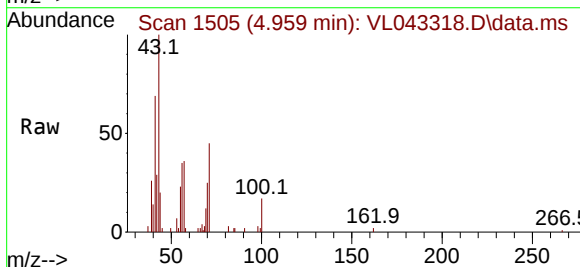
Manual Integrations
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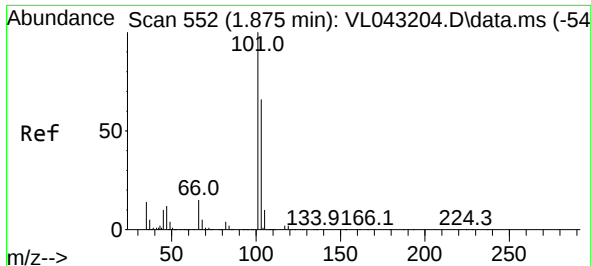
Reviewed By :Semsettin Yesilyurt 12/09/2025
 Supervised By :Mahesh Dadoda 12/11/2025



#10
 Heptane
 Concen: 0.318 ppbv m
 RT: 4.959 min Scan# 1505
 Delta R.T. -0.007 min
 Lab File: VL043318.D
 Acq: 08 Dec 2025 18:11

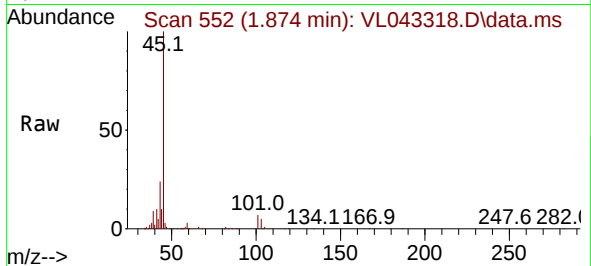
Tgt Ion: 43 Resp: 7600
 Ion Ratio Lower Upper
 43 100
 57 46.1 39.7 59.5





#11
Trichlorofluoromethane
Concen: 0.247 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

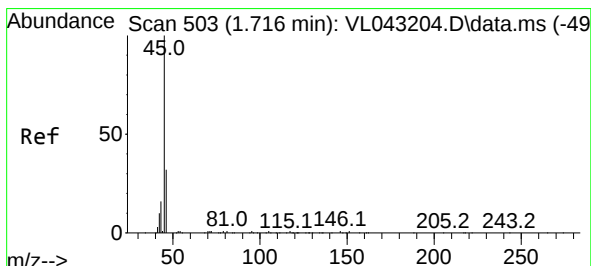
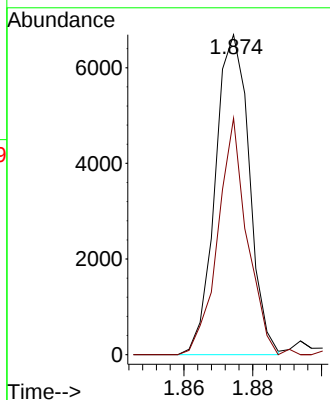
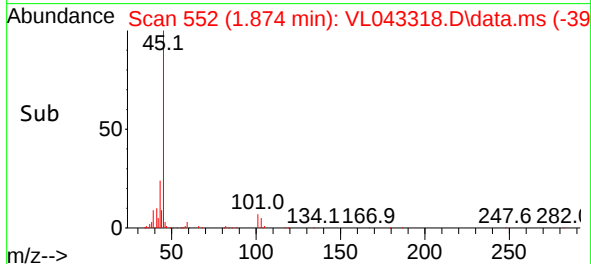
Instrument :
MSVOA_L
ClientSampleId :
IA2



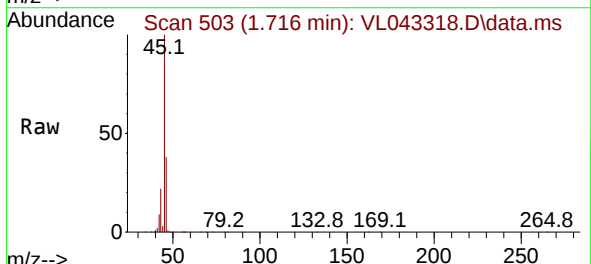
Tgt Ion:101 Resp: 4602
Ion Ratio Lower Upper
101 100
103 73.9 52.6 79.0

Manual Integrations
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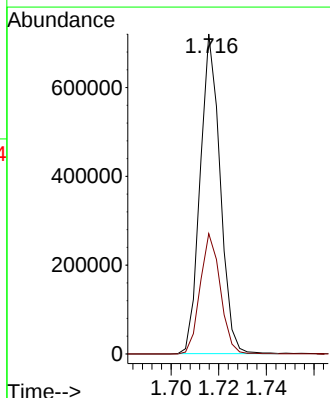
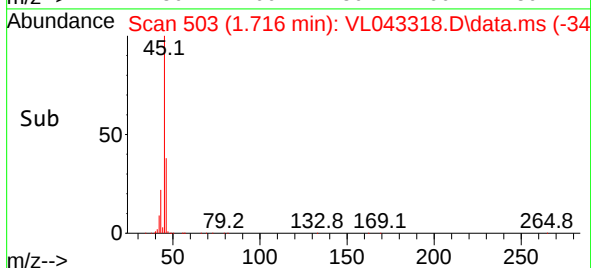
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

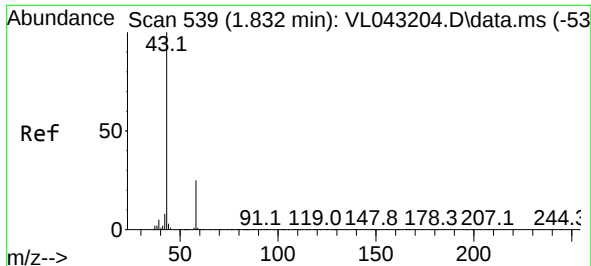


#13
Ethanol
Concen: 148.421 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11



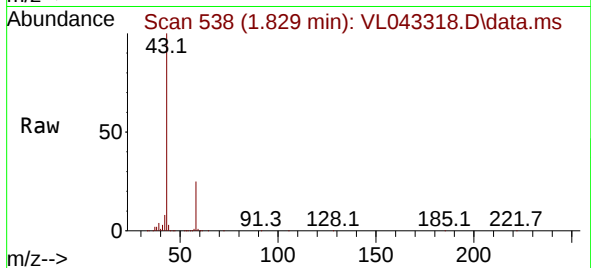
Tgt Ion: 45 Resp: 419351
Ion Ratio Lower Upper
45 100
46 38.3 15.0 59.8





#15
Acetone
Concen: 16.635 ppbv
RT: 1.829 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

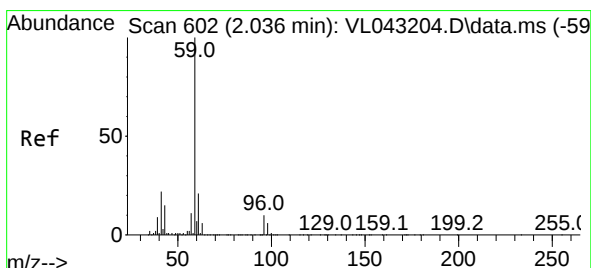
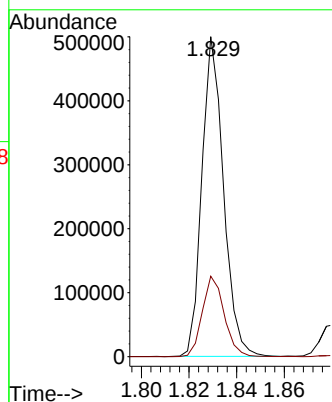
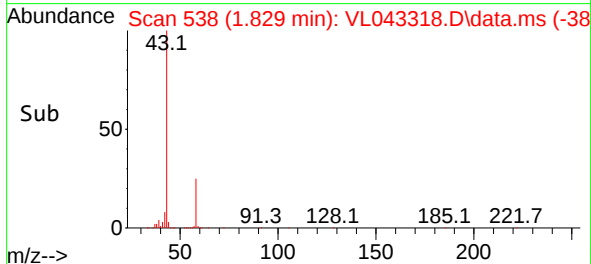
Instrument :
MSVOA_L
ClientSampleId :
IA2



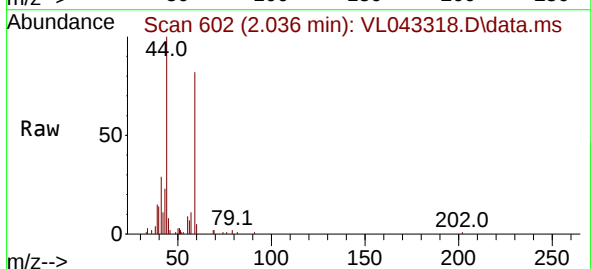
Tgt Ion: 43 Resp: 31527
Ion Ratio Lower Upper
43 100
58 25.5 20.7 31.1

Manual Integrations
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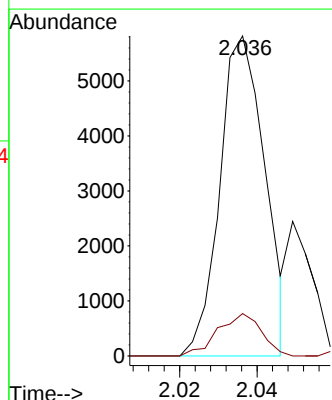
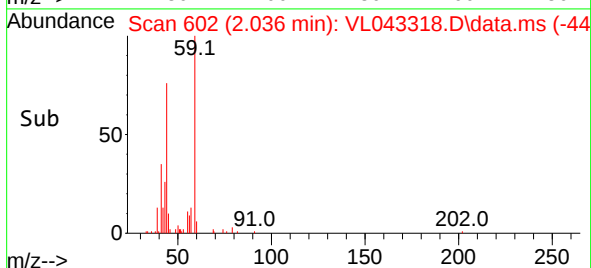
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

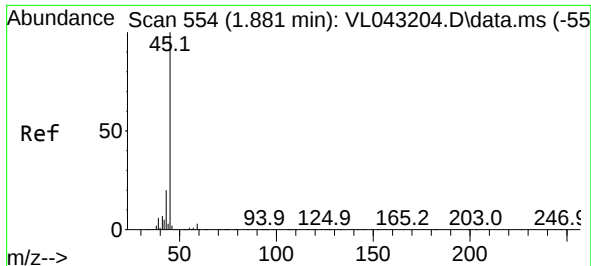


#17
tert-Butyl alcohol
Concen: 0.189 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11



Tgt Ion: 59 Resp: 4705
Ion Ratio Lower Upper
59 100
57 13.5 9.0 13.4#





#19

Isopropyl Alcohol

Concen: 14.034 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.000 min

Lab File: VL043318.D

Acq: 08 Dec 2025 18:11

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 45 Resp: 15030

Ion Ratio Lower Upper

45 100

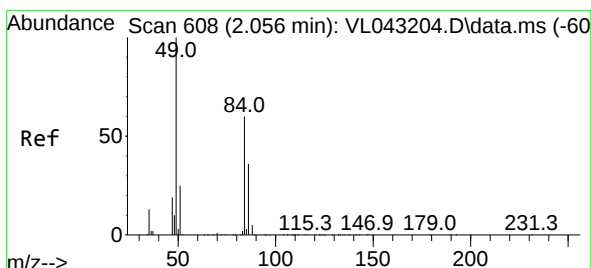
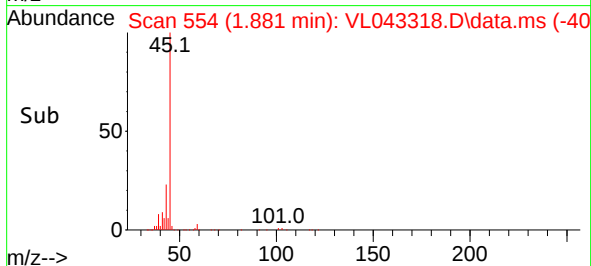
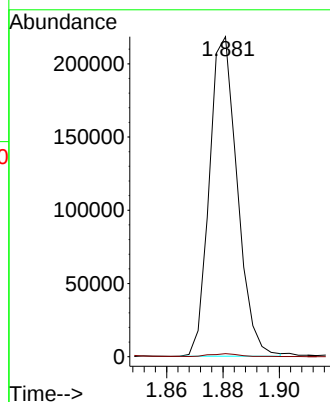
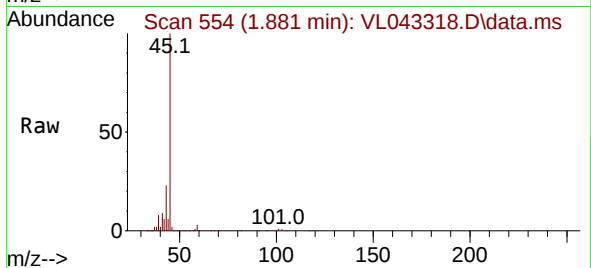
58 53.5 31.3 46.9

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 12/11/2025



#20

Methylene Chloride

Concen: 2.413 ppbv

RT: 2.056 min Scan# 608

Delta R.T. -0.000 min

Lab File: VL043318.D

Acq: 08 Dec 2025 18:11

Tgt Ion: 84 Resp: 16804

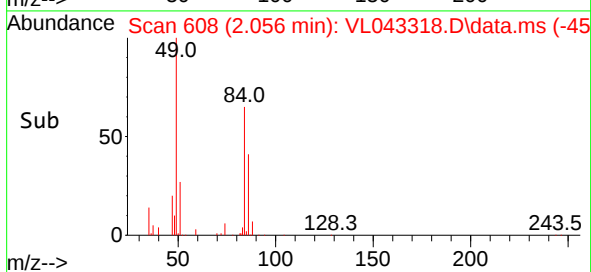
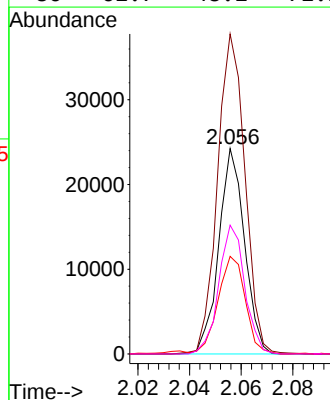
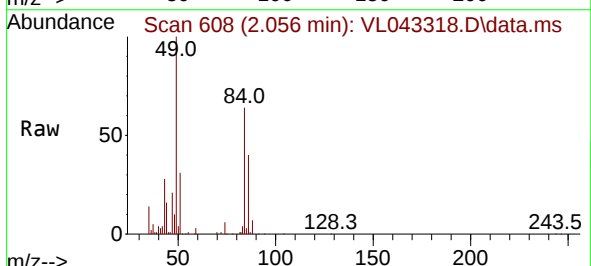
Ion Ratio Lower Upper

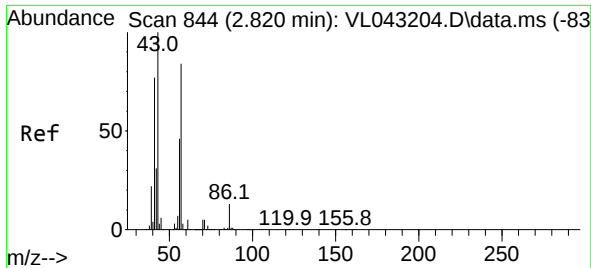
84 100

49 155.3 132.9 199.3

51 47.5 34.8 52.2

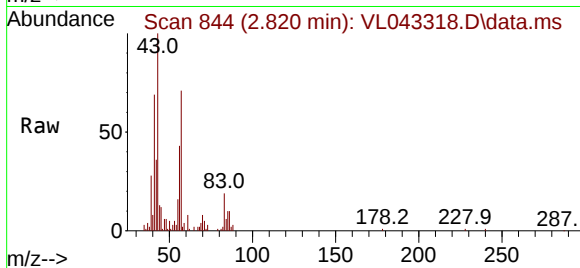
86 62.7 48.2 72.2





#26
Hexane
Concen: 0.539 ppbv
RT: 2.820 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

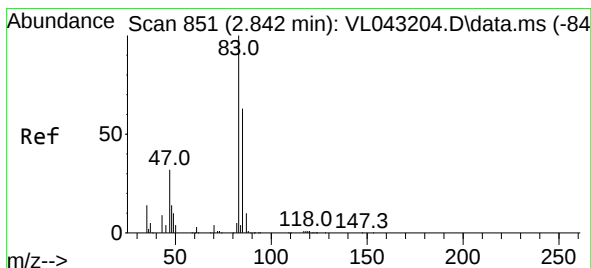
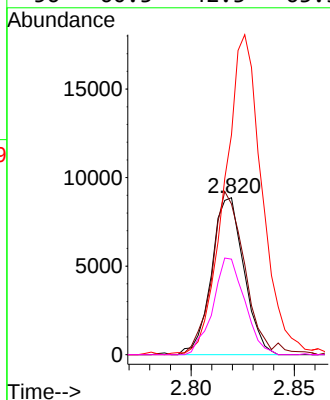
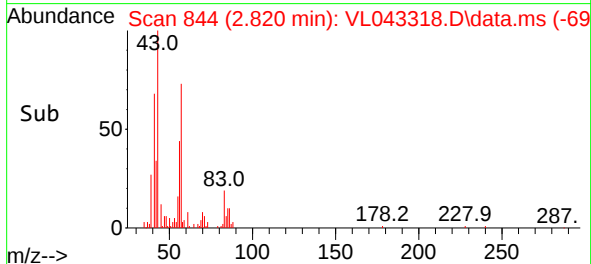
Instrument :
MSVOA_L
ClientSampleId :
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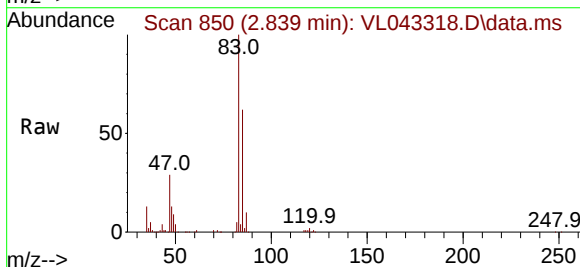
Tgt Ion: 57 Resp: 9660
Ion Ratio Lower Upper
57 100
41 106.0 74.6 111.8
43 238.1 179.0 268.4
56 60.3 42.3 63.5

Manual Integrations
APPROVED

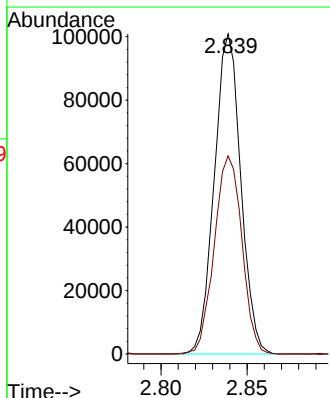
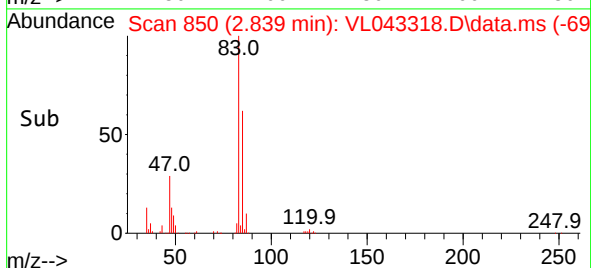
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Supervised By :Mahesh Dadoda 12/11/2025

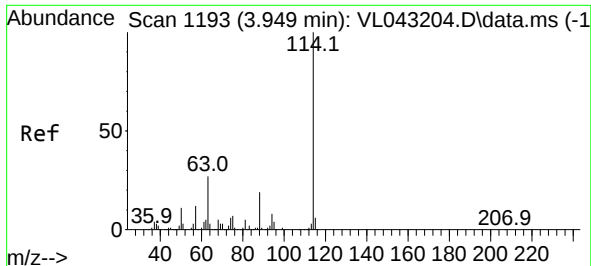


#29
Chloroform
Concen: 4.242 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.003 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11



Tgt Ion: 83 Resp: 108046
Ion Ratio Lower Upper
83 100
85 61.9 50.5 75.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.943 min Scan# 1191

Delta R.T. -0.007 min

Lab File: VL043318.D

Acq: 08 Dec 2025 18:11

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion:114 Resp: 365129

Ion Ratio Lower Upper

114 100

63 24.7 21.0 31.6

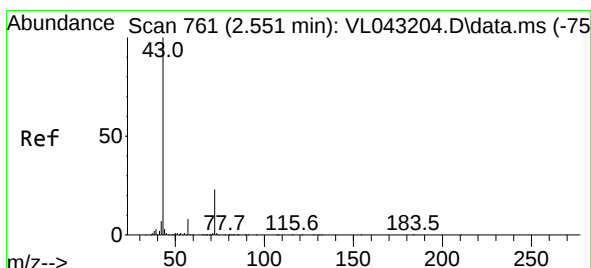
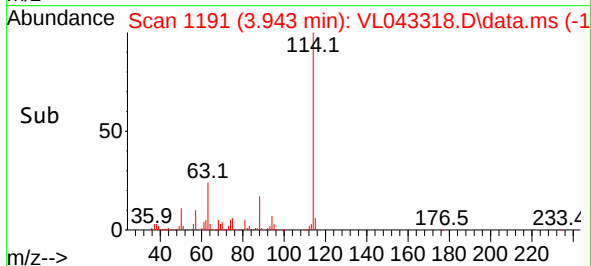
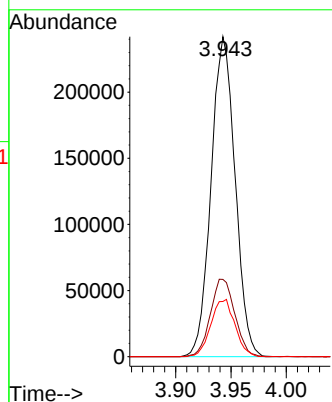
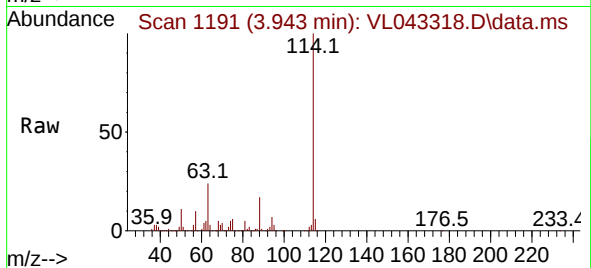
88 18.0 14.9 22.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/09/2025

Supervised By :Mahesh Dadoda 12/11/2025



#34

2-Butanone

Concen: 1.645 ppbv

RT: 2.548 min Scan# 760

Delta R.T. -0.003 min

Lab File: VL043318.D

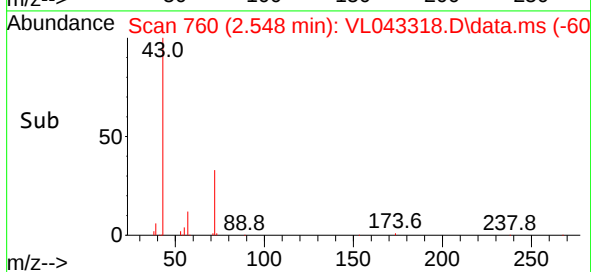
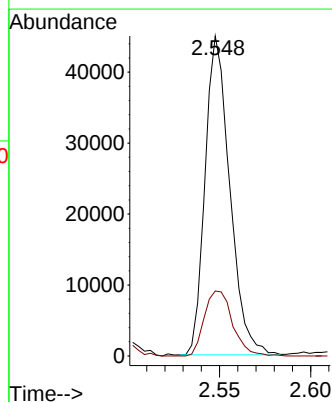
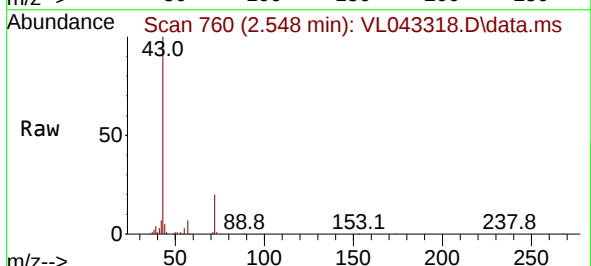
Acq: 08 Dec 2025 18:11

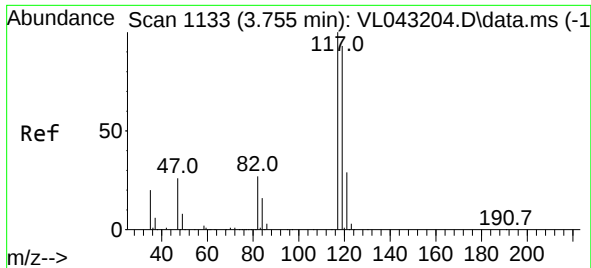
Tgt Ion: 43 Resp: 42408

Ion Ratio Lower Upper

43 100

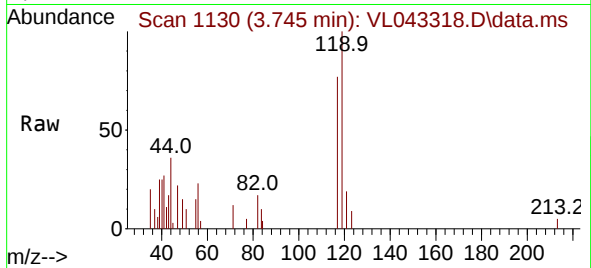
72 23.3 18.1 27.1





#35
Carbon Tetrachloride
Concen: 0.056 ppbv m
RT: 3.745 min Scan# 1133
Delta R.T. -0.010 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

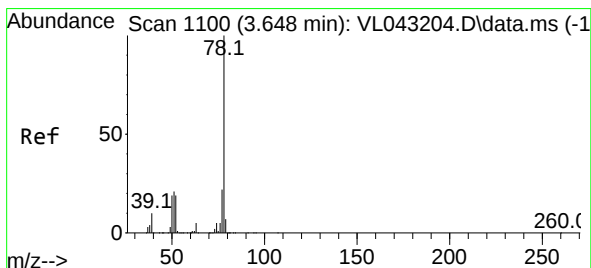
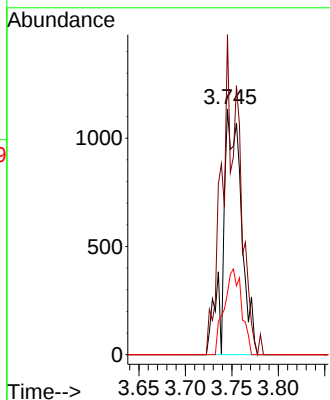
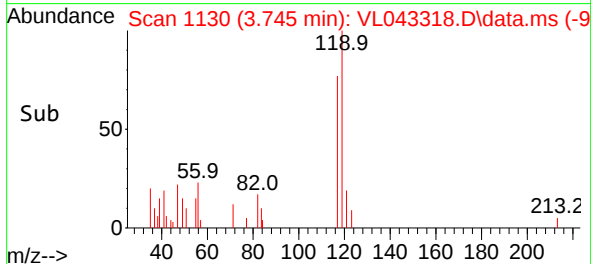
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:117 Resp: 1552
Ion Ratio Lower Upper
117 100
119 130.5 74.6 112.0
121 25.2 23.2 34.8

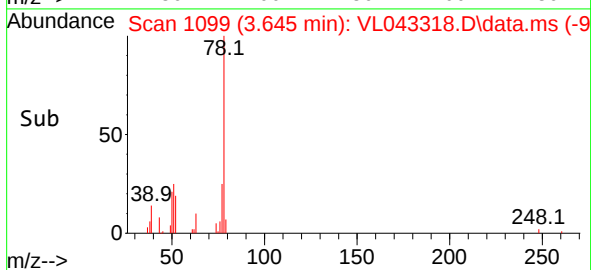
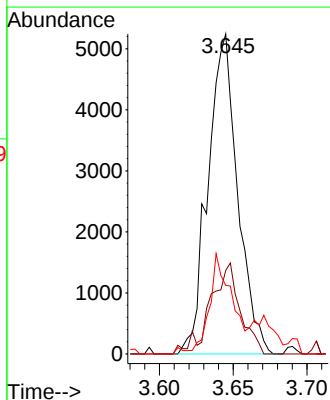
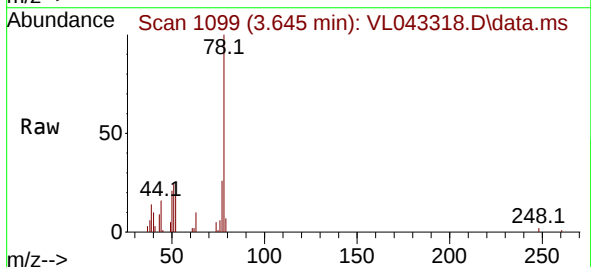
Manual Integrations
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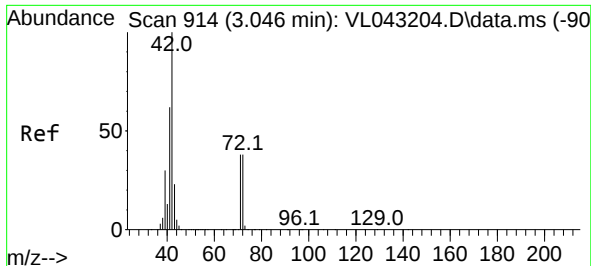
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#36
Benzene
Concen: 0.210 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.003 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

Tgt Ion: 78 Resp: 7357
Ion Ratio Lower Upper
78 100
77 26.1 17.5 26.3
50 19.5 15.5 23.3





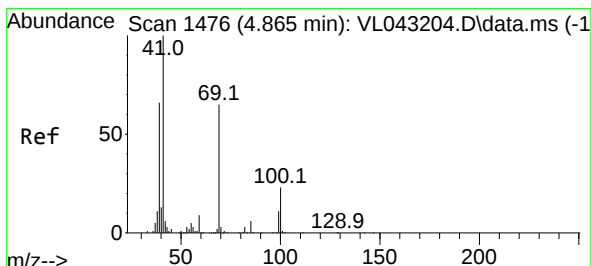
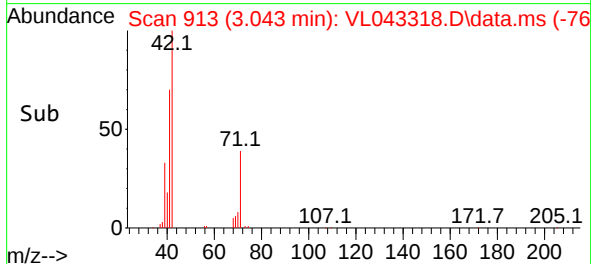
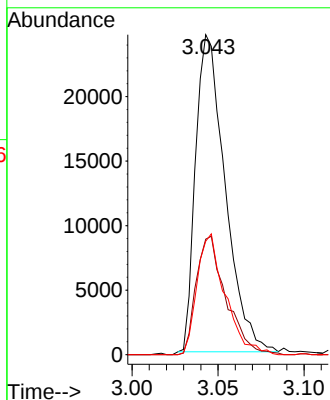
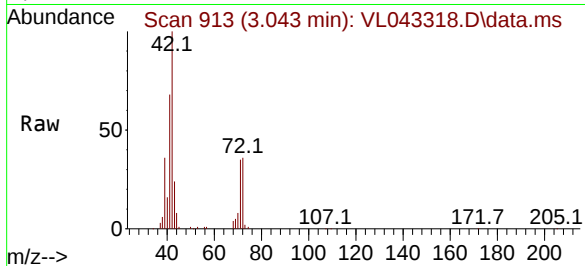
#41
Tetrahydrofuran
Concen: 2.066 ppbv
RT: 3.043 min Scan# 914
Delta R.T. -0.003 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 42 Resp: 2940
Ion Ratio Lower Upper
42 100
72 37.6 30.6 46.0
71 36.2 30.5 45.7

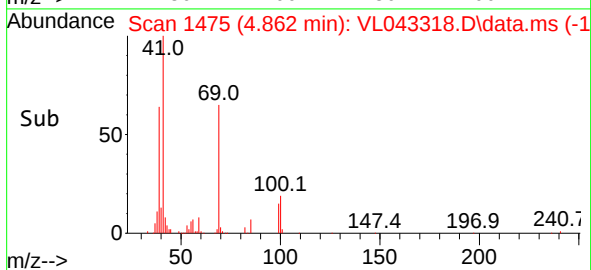
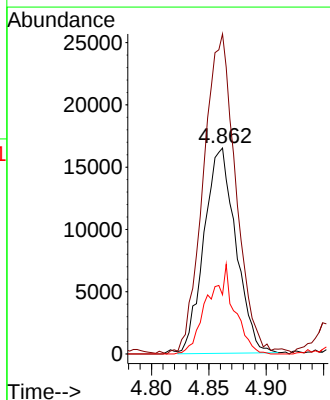
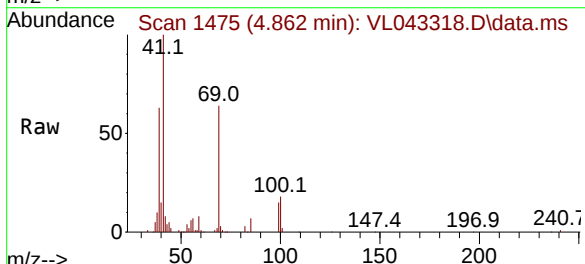
Manual Integrations
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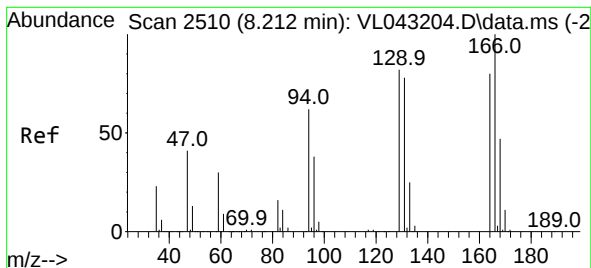
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#43
Methyl Methacrylate
Concen: 1.713 ppbv
RT: 4.862 min Scan# 1475
Delta R.T. -0.003 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

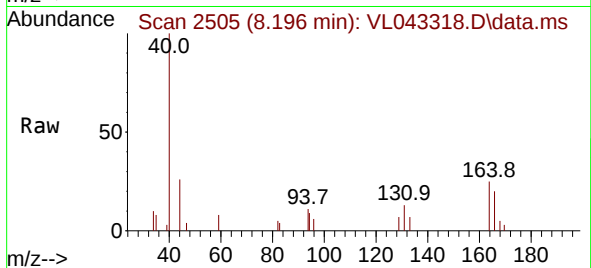
Tgt Ion: 69 Resp: 31796
Ion Ratio Lower Upper
69 100
41 159.9 126.7 190.1
100 36.6 28.6 43.0





#52
Tetrachloroethene
Concen: 0.045 ppbv m
RT: 8.196 min Scan# 2108
Delta R.T. -0.016 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

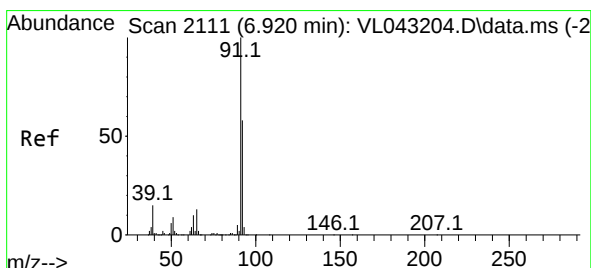
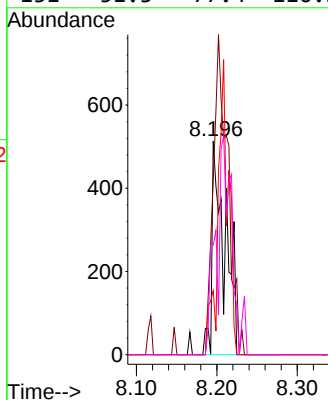
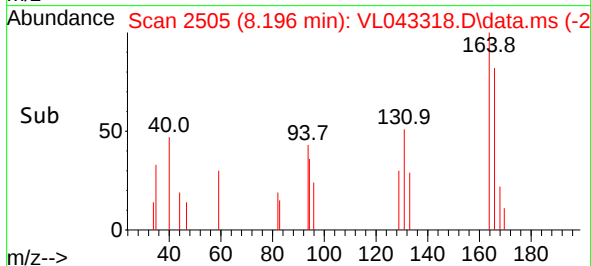
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:164 Resp: 58
Ion Ratio Lower Upper
164 100
166 82.1 99.4 149.2
129 30.0 81.8 122.8
131 51.3 77.4 116.2

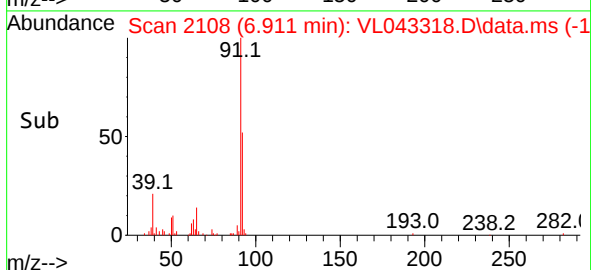
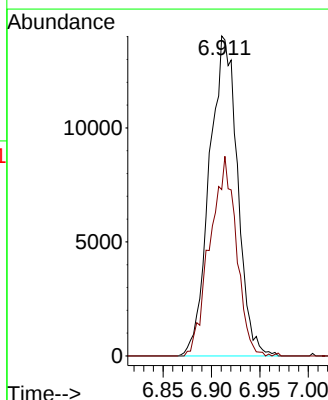
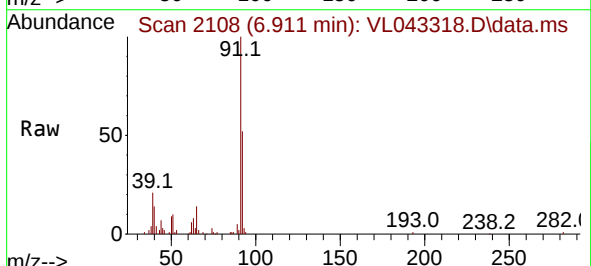
Manual Integrations
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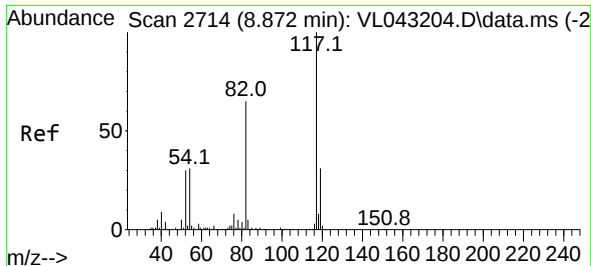
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#53
Toluene
Concen: 0.682 ppbv
RT: 6.911 min Scan# 2108
Delta R.T. -0.010 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

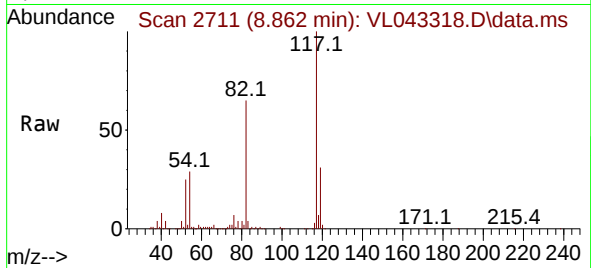
Tgt Ion: 91 Resp: 28236
Ion Ratio Lower Upper
91 100
92 58.8 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.862 min Scan# 2711
Delta R.T. -0.010 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

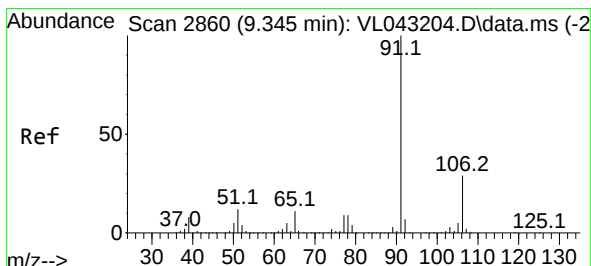
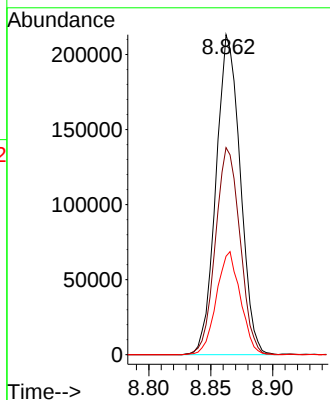
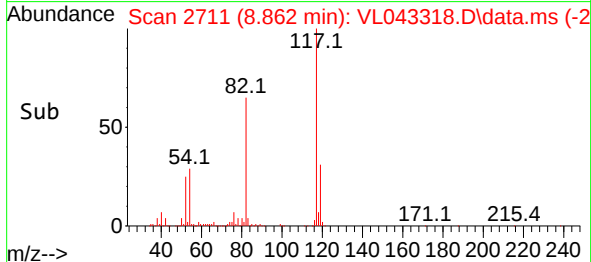
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 117 Resp: 291200
Ion Ratio Lower Upper
117 100
82 65.5 56.1 84.1
119 31.9 25.0 37.6

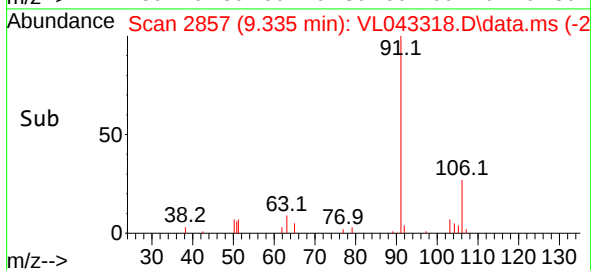
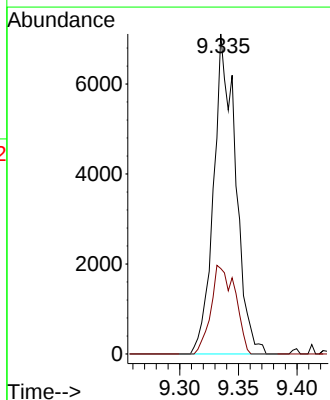
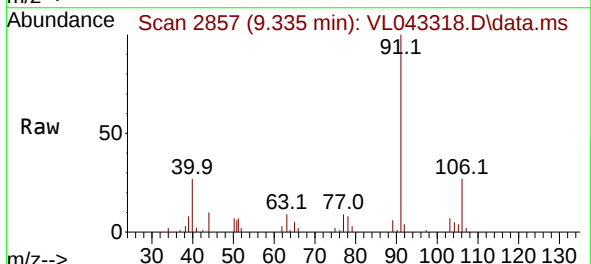
Manual Integrations
APPROVED

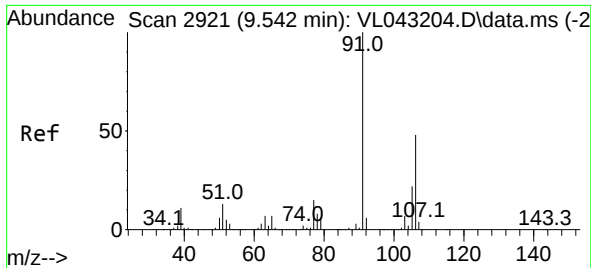
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#58
Ethyl Benzene
Concen: 0.166 ppbv m
RT: 9.335 min Scan# 2857
Delta R.T. -0.010 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

Tgt Ion: 91 Resp: 9277
Ion Ratio Lower Upper
91 100
106 26.7 22.8 34.2





#59

m/p-Xylene

Concen: 0.761 ppbv m

RT: 9.516 min Scan# 2921

Delta R.T. -0.026 min

Lab File: VL043318.D

Acq: 08 Dec 2025 18:11

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 91 Resp: 3421

Ion Ratio Lower Upper

91 100

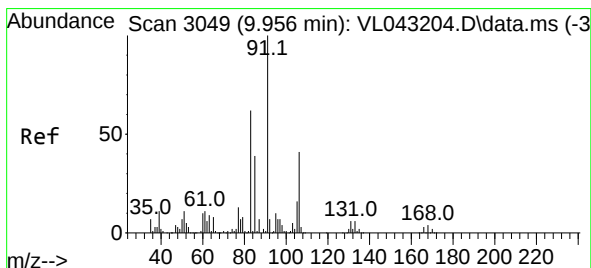
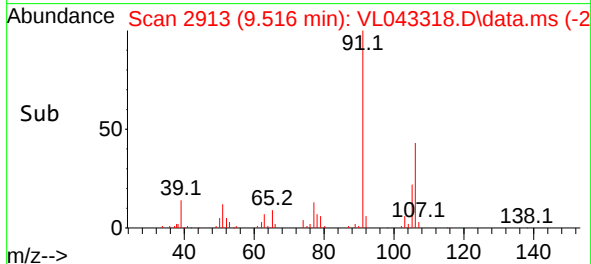
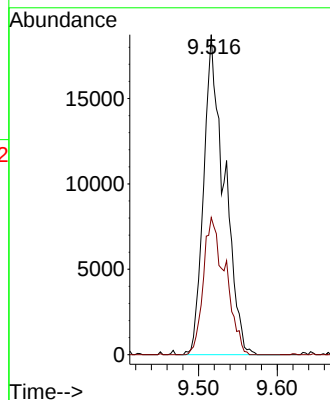
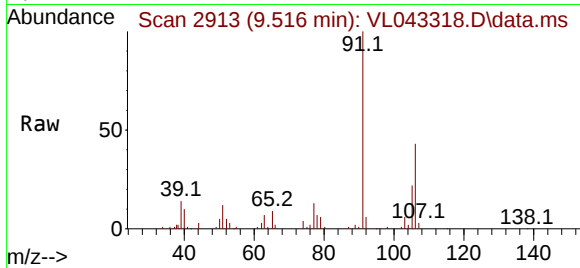
106 0.0 36.1 54.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/09/2025

Supervised By :Mahesh Dadoda 12/11/2025



#60

o-Xylene

Concen: 0.277 ppbv

RT: 9.947 min Scan# 3046

Delta R.T. -0.010 min

Lab File: VL043318.D

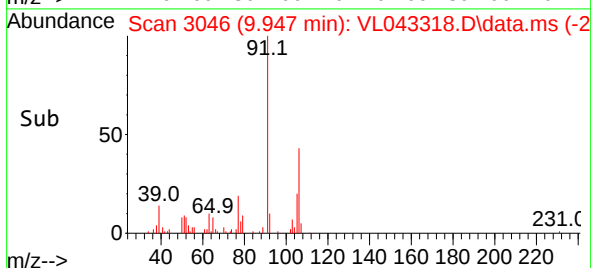
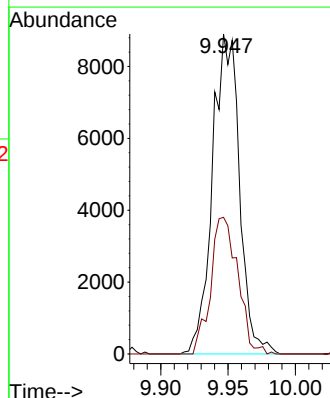
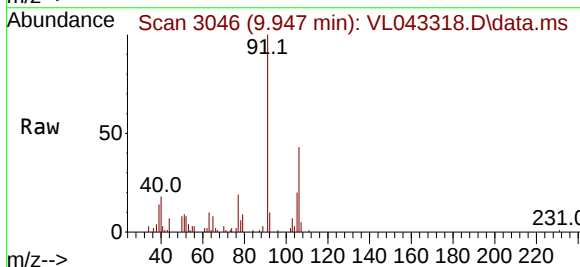
Acq: 08 Dec 2025 18:11

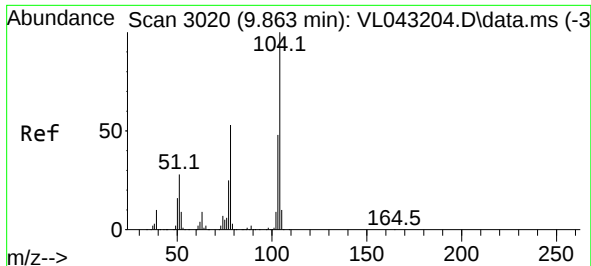
Tgt Ion: 91 Resp: 12433

Ion Ratio Lower Upper

91 100

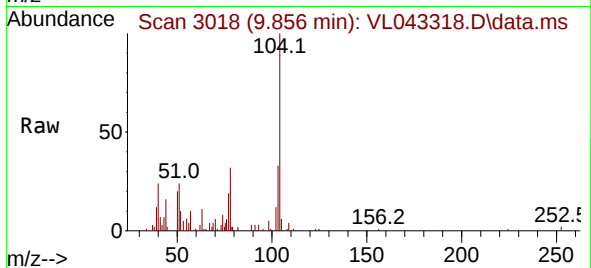
106 42.8 20.9 62.8





#61
Styrene
Concen: 0.334 ppbv
RT: 9.856 min Scan# 3020
Delta R.T. -0.007 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

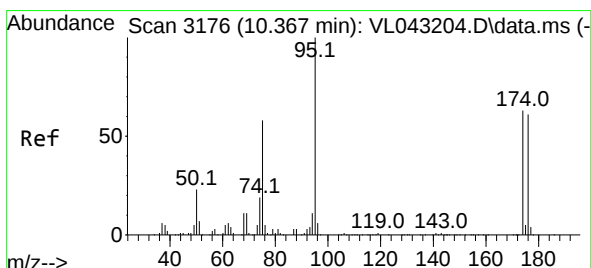
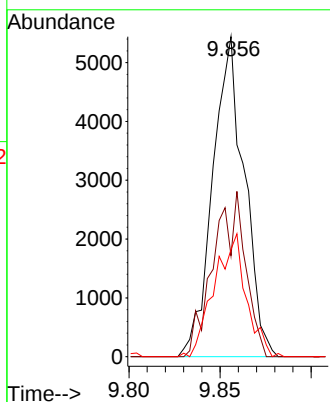
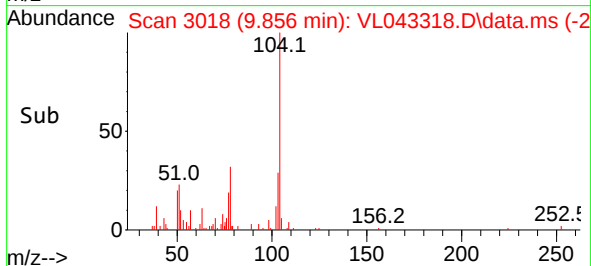
Instrument :
MSVOA_L
ClientSampleId :
IA2



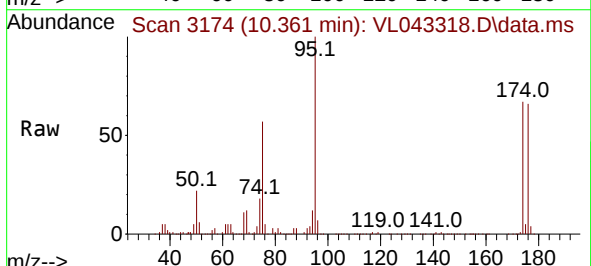
Tgt Ion:104 Resp: 656
Ion Ratio Lower Upper
104 100
78 52.1 42.1 63.1
103 38.7 37.2 55.8

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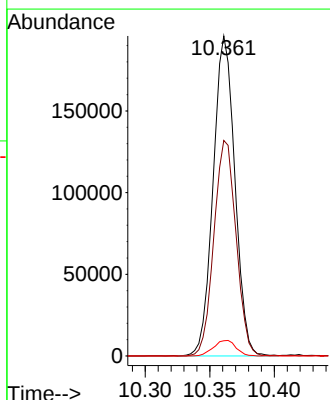
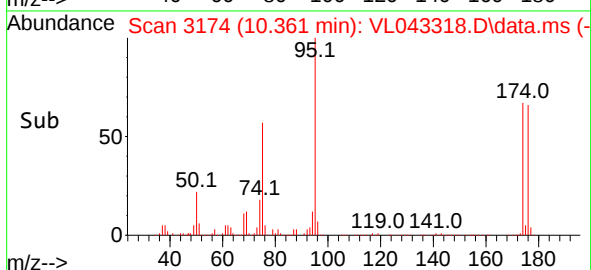
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

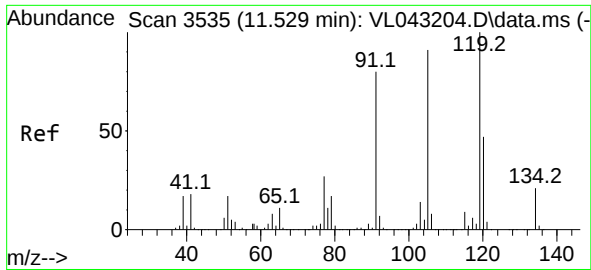


#68
1-Bromo-4-Fluorobenzene
Concen: 10.725 ppbv
RT: 10.361 min Scan# 3174
Delta R.T. -0.007 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11



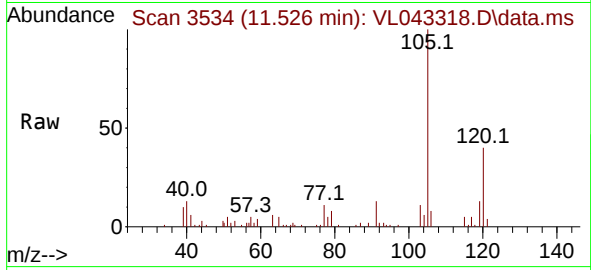
Tgt Ion: 95 Resp: 228919
Ion Ratio Lower Upper
95 100
174 68.8 50.2 75.2
175 5.0 4.1 6.1





#74
1,2,4-Trimethylbenzene
Concen: 0.217 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL043318.D
Acq: 08 Dec 2025 18:11

Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:105 Resp: 10850
Ion Ratio Lower Upper
105 100
120 40.0 41.7 62.5
91 12.9 70.0 105.0
77 10.6 23.8 35.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

