

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
 Data File : VL043320.D
 Acq On : 08 Dec 2025 19:21
 Operator : SY/MD
 Sample : Q3798-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

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

Quant Time: Dec 09 00:15:05 2025

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

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

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	2.781	49	131651	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	343367	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	273285	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	201922	10.080	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.800%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	8241	0.444	ppbv	95
3) Chlorodifluoromethane	1.473	51	5457m	0.299	ppbv	
4) Chloromethane	1.531	50	3358	0.484	ppbv	91
9) Propene	1.486	41	289780	37.370	ppbv #	5
11) Trichlorofluoromethane	1.874	101	5386	0.299	ppbv	88
13) Ethanol	1.719	45	444160	162.890	ppbv	98
15) Acetone	1.832	43	68576	3.749	ppbv #	49
19) Isopropyl Alcohol	1.884	45	15295	1.480	ppbv #	36
20) Methylene Chloride	2.059	84	57923	10.811	ppbv	90
26) Hexane	2.819	57	44295	2.561	ppbv #	47
29) Chloroform	2.842	83	3322	0.135	ppbv #	79
30) Cyclohexane	3.849	84	1834m	0.126	ppbv	
34) 2-Butanone	2.551	43	9302	0.384	ppbv	96
35) Carbon Tetrachloride	3.748	117	1983m	0.076	ppbv	
36) Benzene	3.648	78	10557	0.321	ppbv	96
44) 2,2,4-Trimethylpentane	4.635	57	5845m	0.103	ppbv	
53) Toluene	6.914	91	18124	0.465	ppbv	98
59) m/p-Xylene	9.519	91	5630m	0.134	ppbv	

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

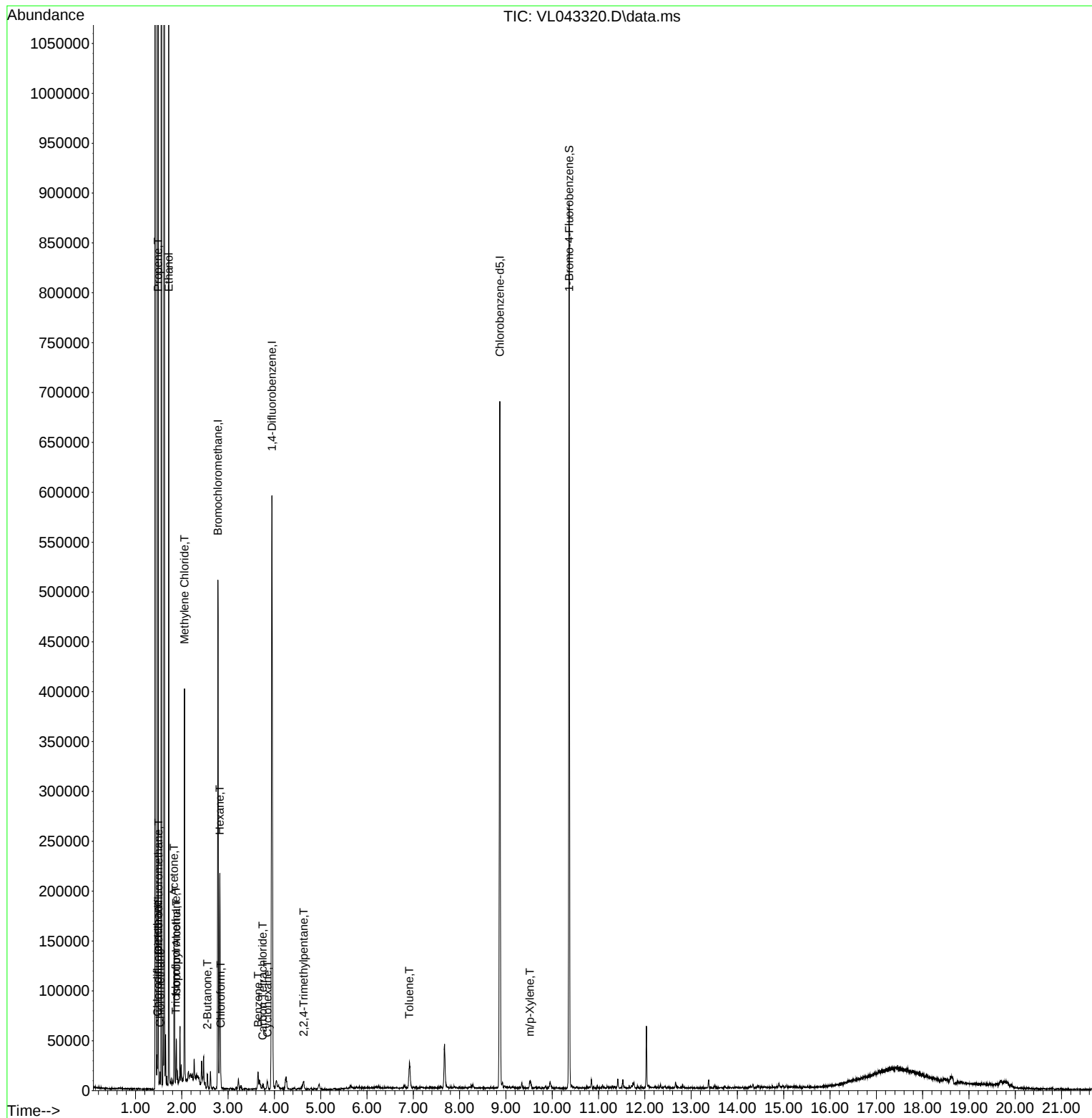
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043320.D
Acq On : 08 Dec 2025 19:21
Operator : SY/MD
Sample : Q3798-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

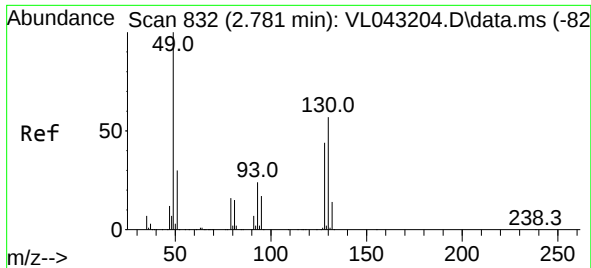
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Dec 09 00:15:05 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

Manual Integrations
APPROVED

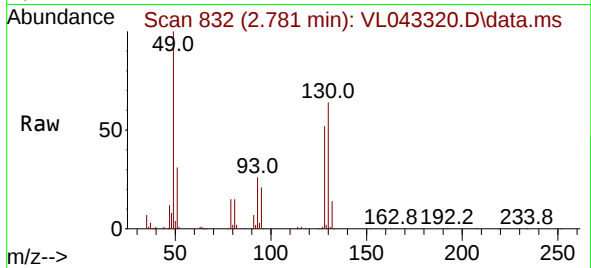
Reviewed By : Semsettin Yesilyurt 12/09/2025
Supervised By : Mahesh Dadoda 12/11/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 832
Delta R.T. -0.000 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

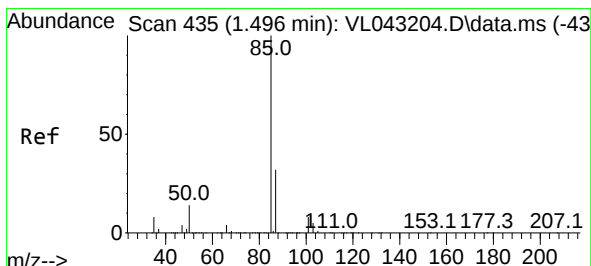
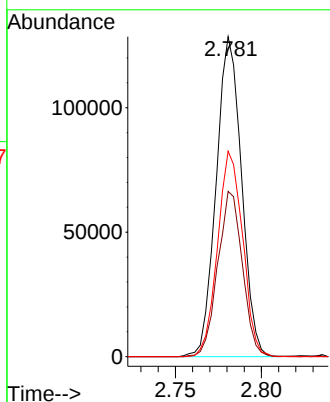
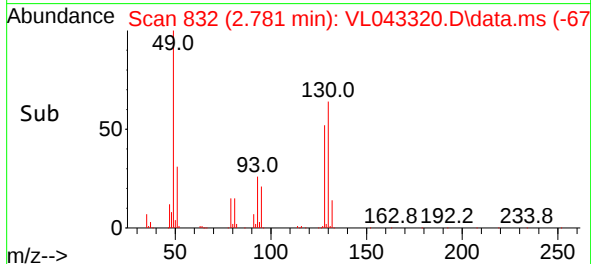
Instrument :
MSVOA_L
ClientSampleId :
IA1



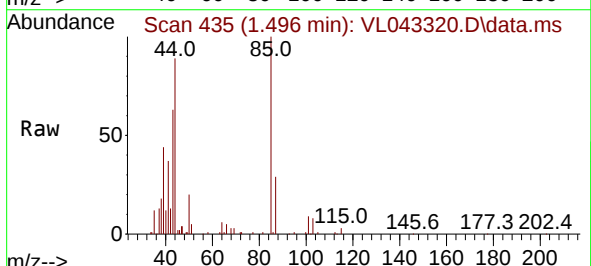
Tgt Ion: 49 Resp: 13165
Ion Ratio Lower Upper
49 100
128 50.2 23.0 69.0
130 63.5 29.9 89.7

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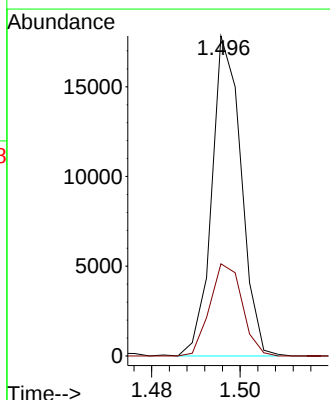
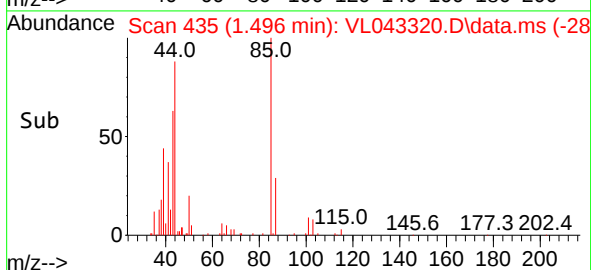
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

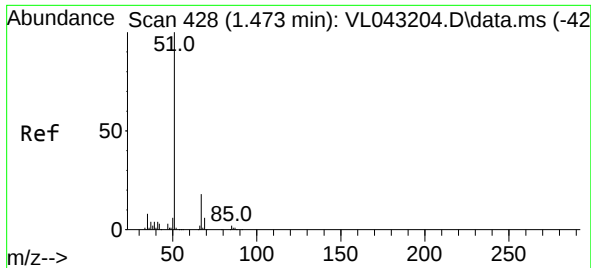


#2
Dichlorodifluoromethane
Concen: 0.444 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21



Tgt Ion: 85 Resp: 8241
Ion Ratio Lower Upper
85 100
87 28.8 25.4 38.2





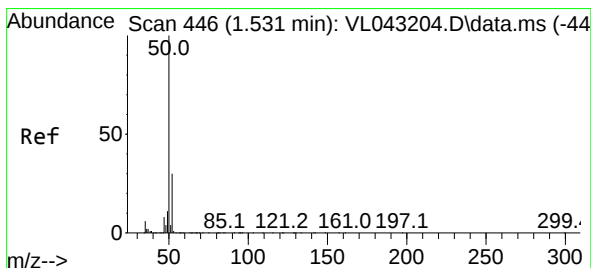
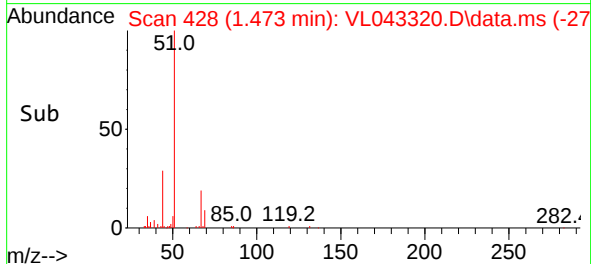
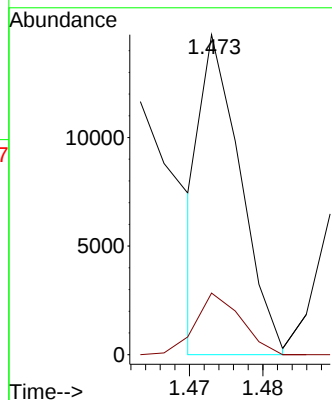
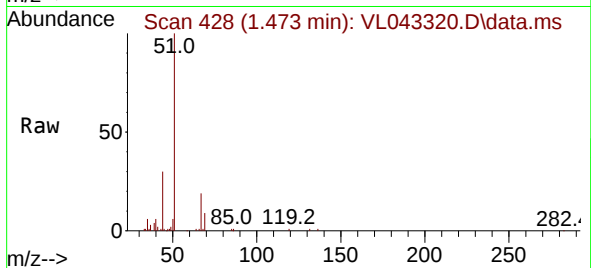
#3
Chlorodifluoromethane
Concen: 0.299 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 545
Ion Ratio Lower Upper
51 100
67 22.6 14.9 22.3

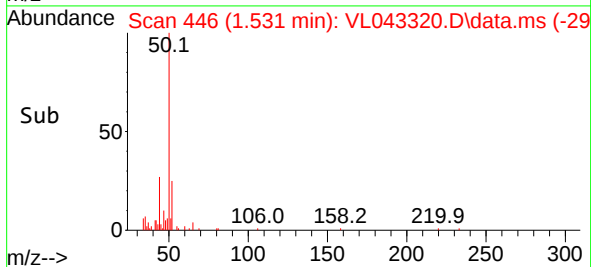
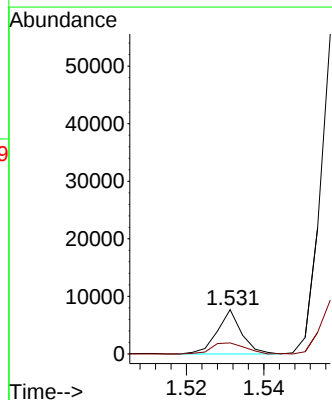
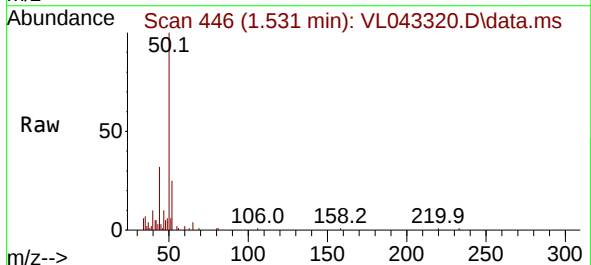
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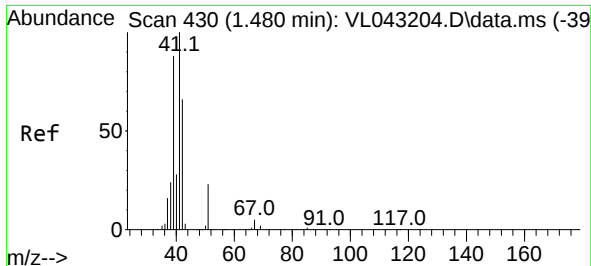
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#4
Chloromethane
Concen: 0.484 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

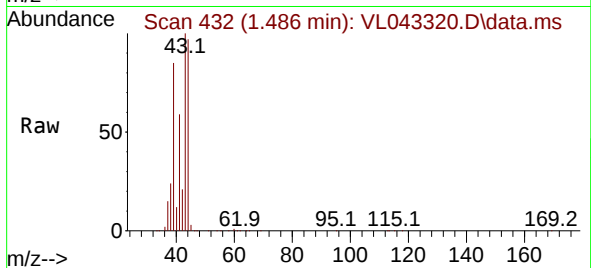
Tgt Ion: 50 Resp: 3358
Ion Ratio Lower Upper
50 100
52 25.1 24.1 36.1





#9
 Propene
 Concen: 37.370 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL043320.D
 Acq: 08 Dec 2025 19:21

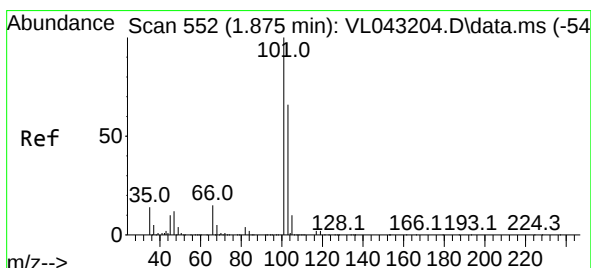
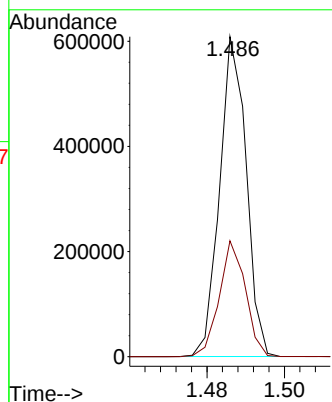
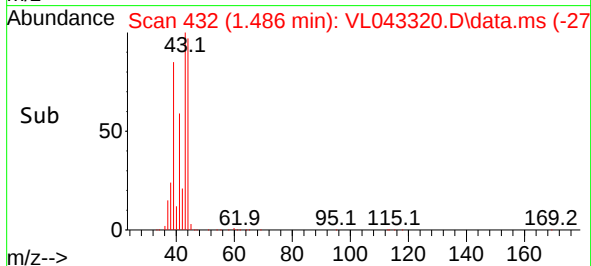
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 41 Resp: 289780
 Ion Ratio Lower Upper
 41 100
 42 35.9 3.7 5.5

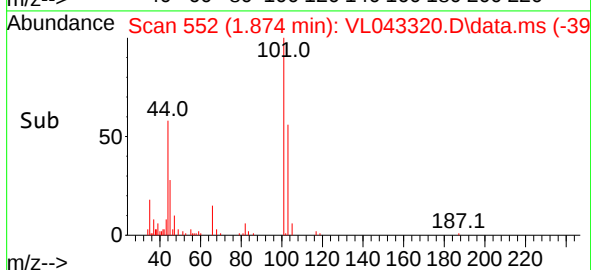
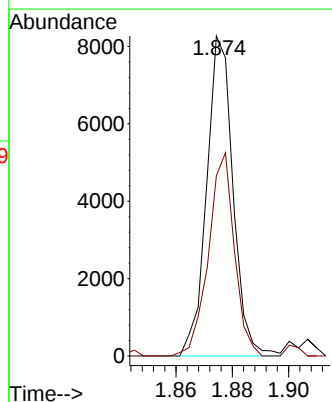
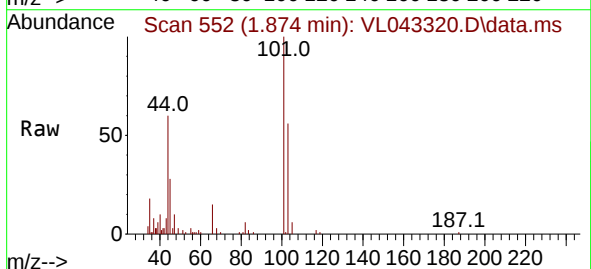
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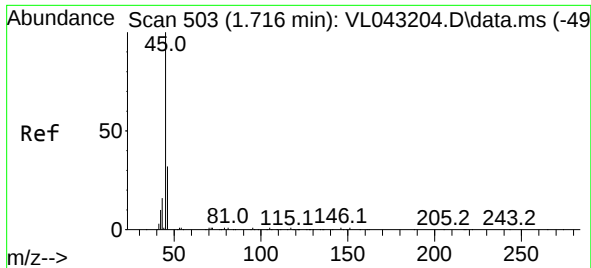
Reviewed By :Semsettin Yesilyurt 12/09/2025
 Supervised By :Mahesh Dadoda 12/11/2025



#11
 Trichlorofluoromethane
 Concen: 0.299 ppbv
 RT: 1.874 min Scan# 552
 Delta R.T. -0.000 min
 Lab File: VL043320.D
 Acq: 08 Dec 2025 19:21

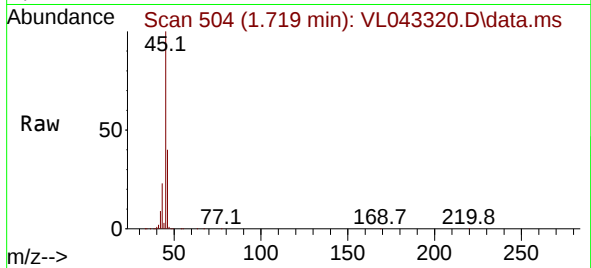
Tgt Ion:101 Resp: 5386
 Ion Ratio Lower Upper
 101 100
 103 56.3 52.6 79.0





#13
Ethanol
Concen: 162.890 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

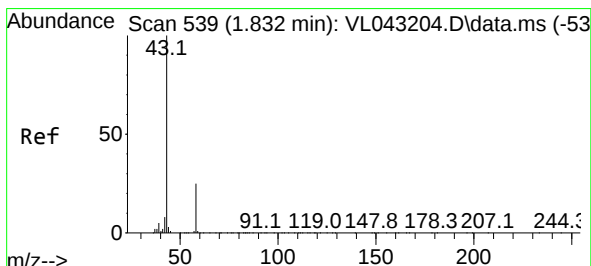
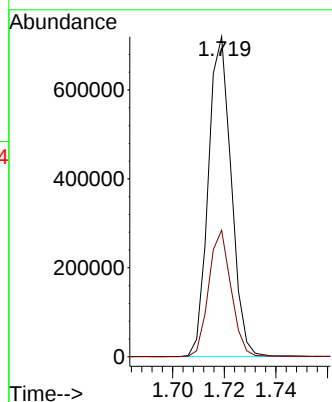
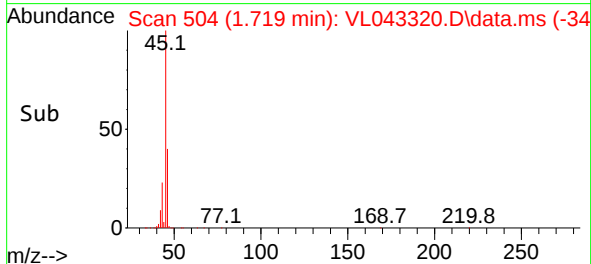
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 444160
Ion Ratio Lower Upper
45 100
46 38.8 15.0 59.8

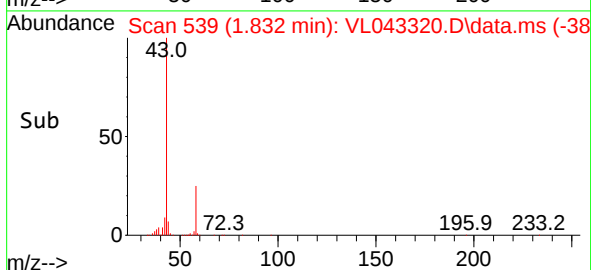
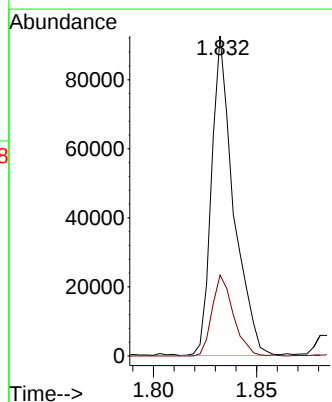
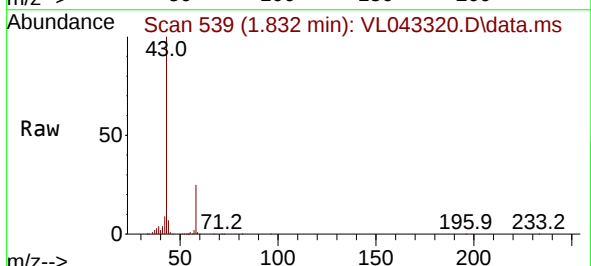
Manual Integrations
APPROVED

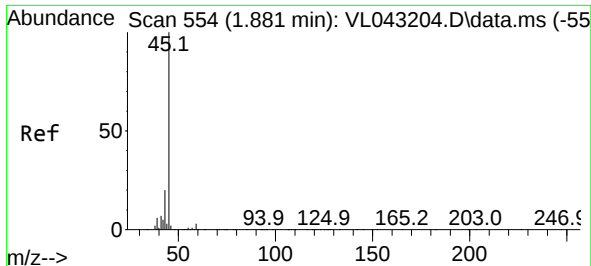
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#15
Acetone
Concen: 3.749 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

Tgt Ion: 43 Resp: 68576
Ion Ratio Lower Upper
43 100
58 0.0 20.7 31.1#





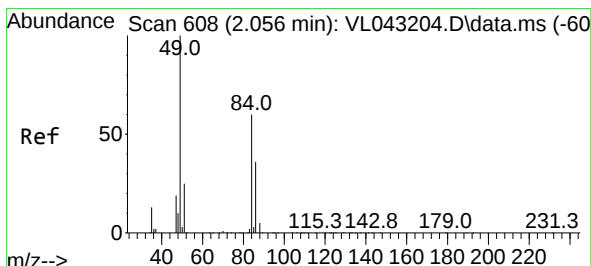
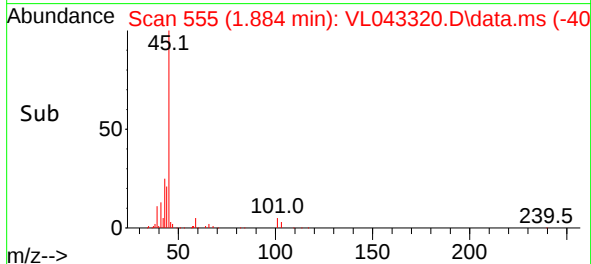
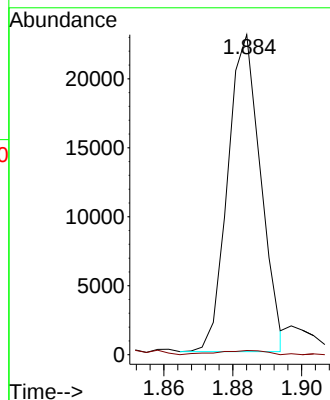
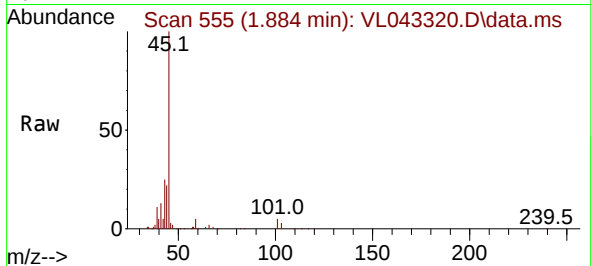
#19
Isopropyl Alcohol
Concen: 1.480 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 1529
Ion Ratio Lower Upper
45 100
58 0.0 31.3 46.9

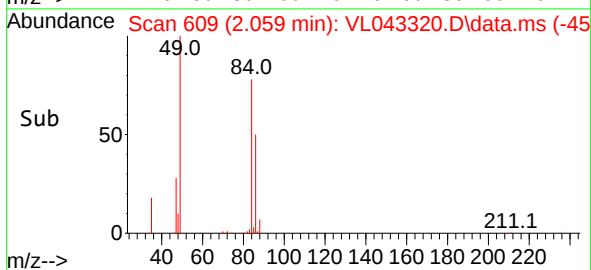
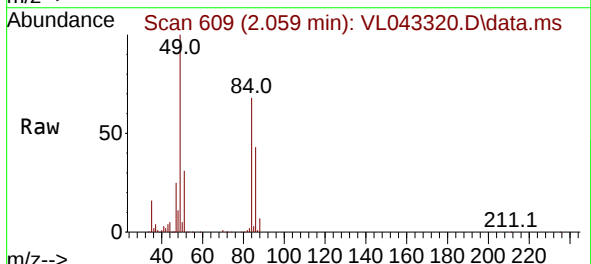
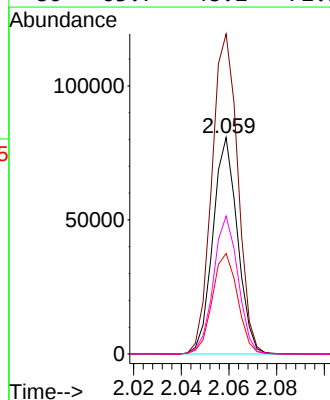
Manual Integrations
APPROVED

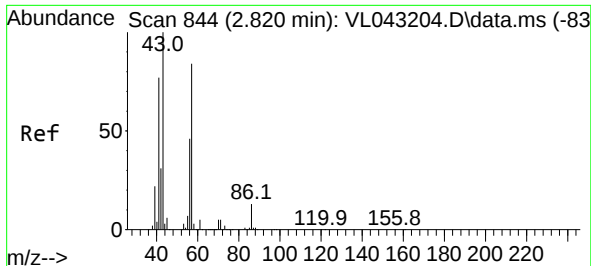
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#20
Methylene Chloride
Concen: 10.811 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

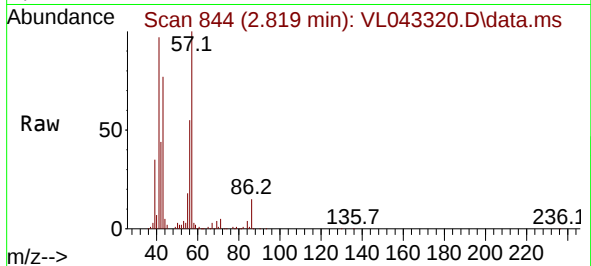
Tgt Ion: 84 Resp: 57923
Ion Ratio Lower Upper
84 100
49 147.8 132.9 199.3
51 46.4 34.8 52.2
86 63.7 48.2 72.2





#26
Hexane
Concen: 2.561 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

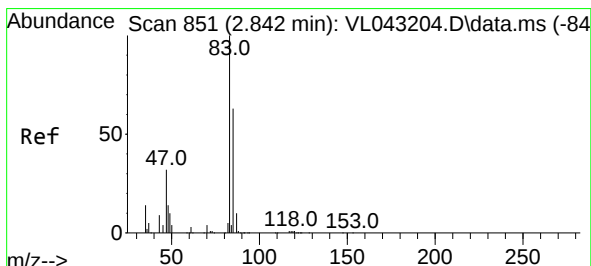
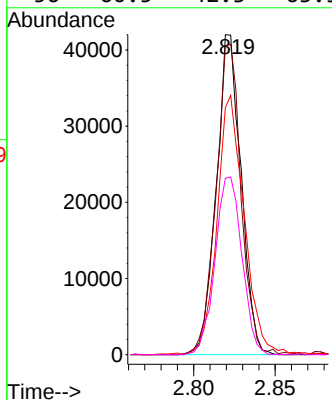
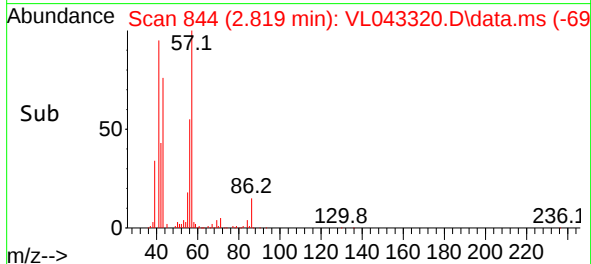
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 44295
Ion Ratio Lower Upper
57 100
41 98.8 74.6 111.8
43 89.6 179.0 268.4
56 60.5 42.3 63.5

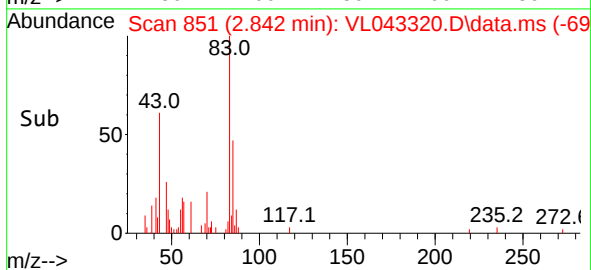
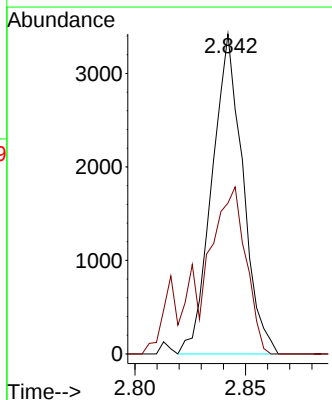
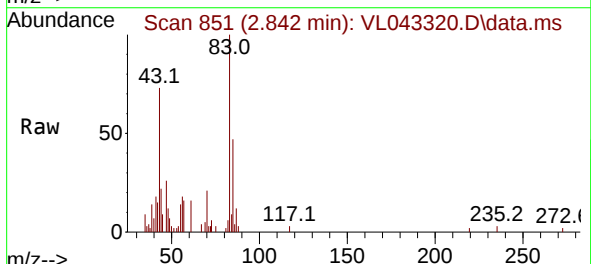
Manual Integrations
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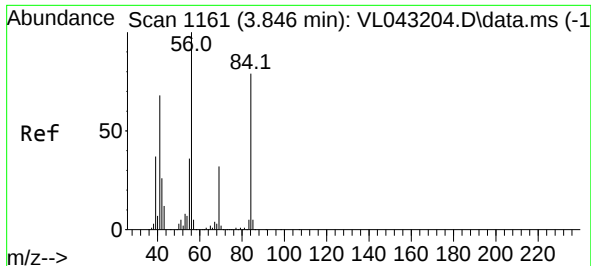
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#29
Chloroform
Concen: 0.135 ppbv
RT: 2.842 min Scan# 851
Delta R.T. -0.000 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

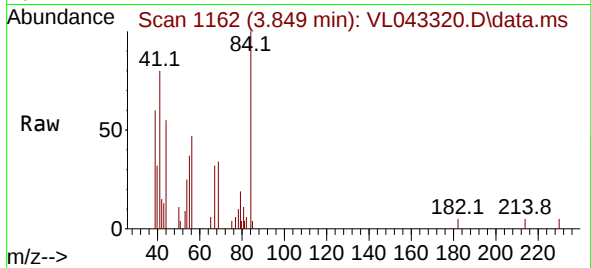
Tgt Ion: 83 Resp: 3322
Ion Ratio Lower Upper
83 100
85 47.2 50.5 75.7#





#30
Cyclohexane
Concen: 0.126 ppbv m
RT: 3.849 min Scan# 1162
Delta R.T. 0.003 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

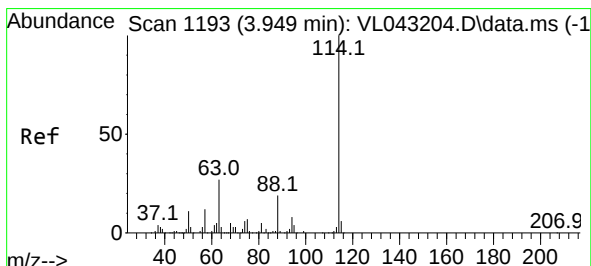
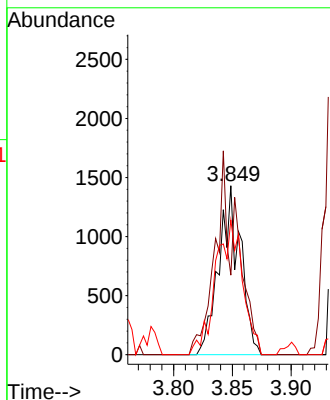
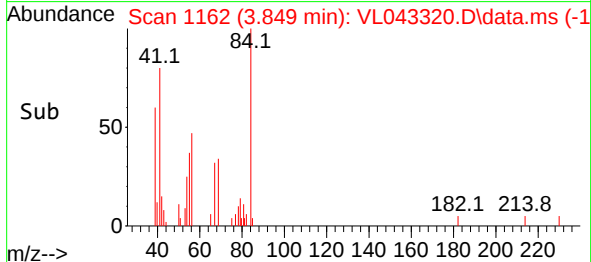
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 1834
Ion Ratio Lower Upper
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56 0.0 104.7 157.1
41 0.0 69.0 103.6

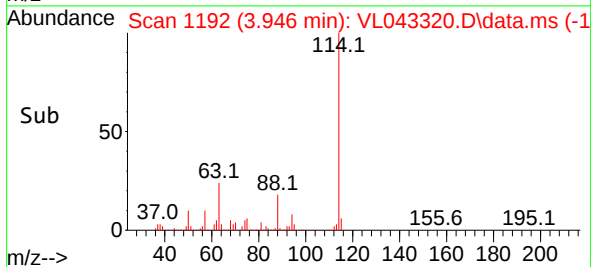
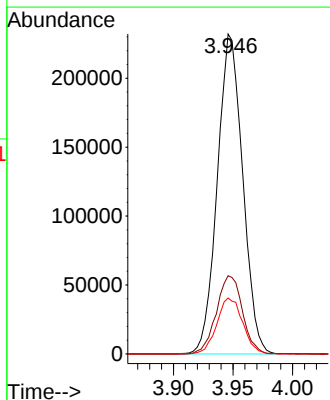
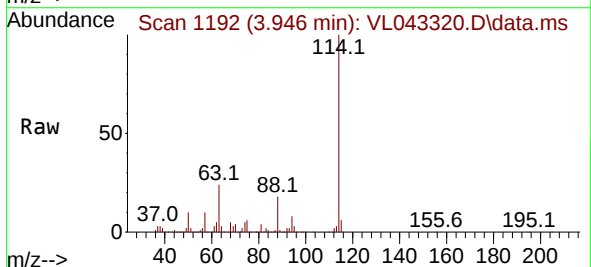
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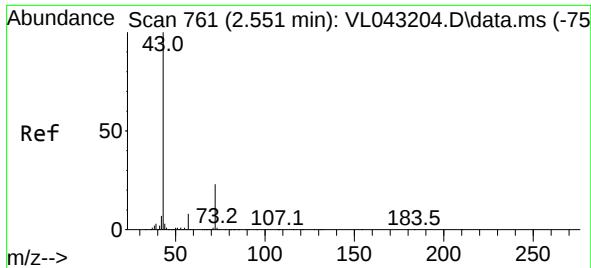
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.003 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

Tgt Ion:114 Resp: 343367
Ion Ratio Lower Upper
114 100
63 25.2 21.0 31.6
88 17.8 14.9 22.3





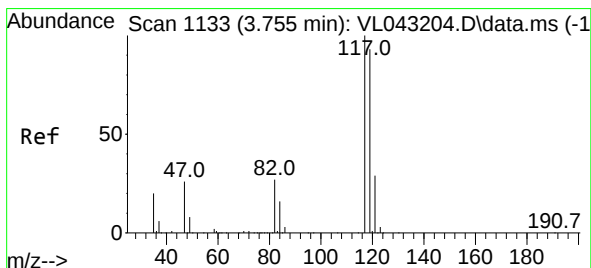
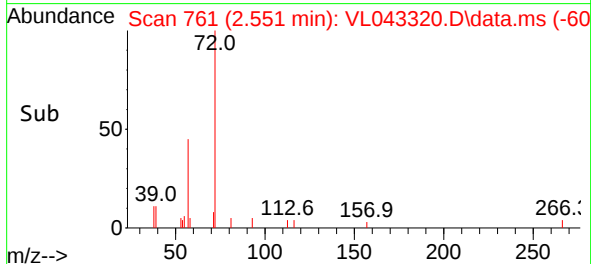
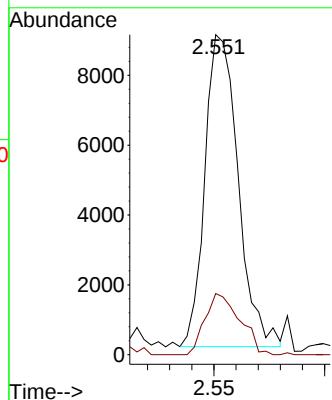
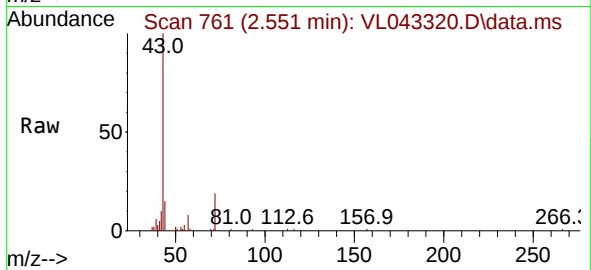
#34
2-Butanone
Concen: 0.384 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 930
Ion Ratio Lower Upper
43 100
72 20.8 18.1 27.1

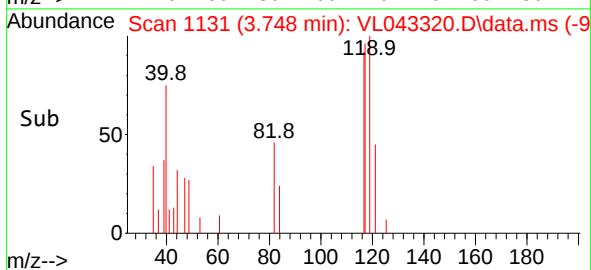
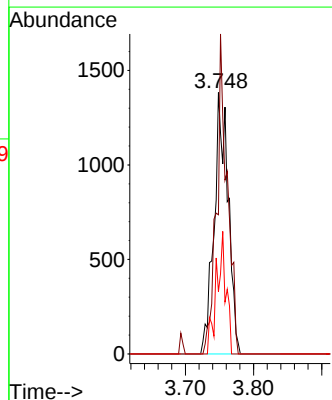
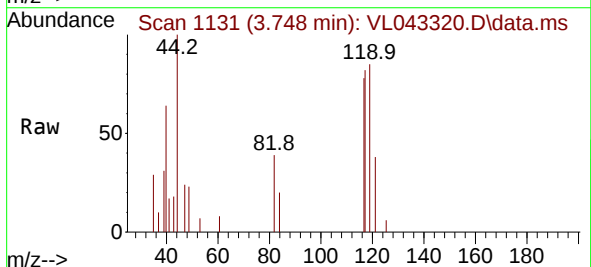
Manual Integrations
APPROVED

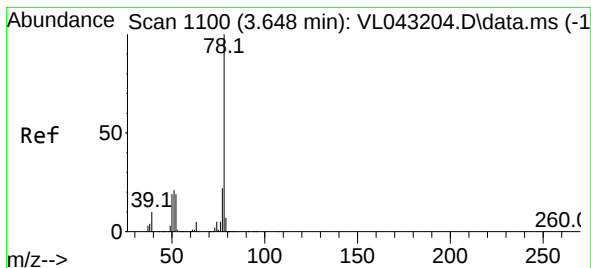
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 3.748 min Scan# 1131
Delta R.T. -0.007 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

Tgt Ion:117 Resp: 1983
Ion Ratio Lower Upper
117 100
119 104.0 74.6 112.0
121 46.6 23.2 34.8#





#36

Benzene

Concen: 0.321 ppbv

RT: 3.648 min Scan# 1100

Delta R.T. -0.000 min

Lab File: VL043320.D

Acq: 08 Dec 2025 19:21

Instrument :

MSVOA_L

ClientSampleId :

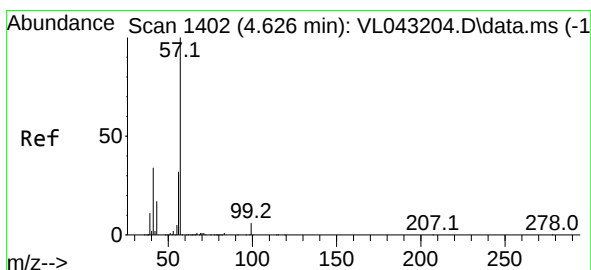
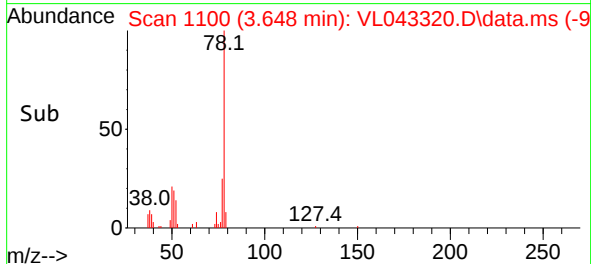
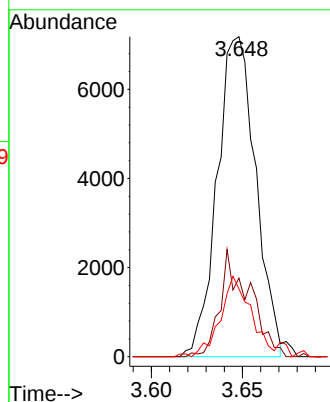
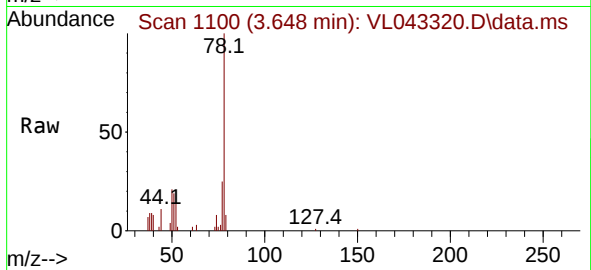
IA1

Tgt Ion: 78	Resp: 1055
Ion Ratio	Lower Upper
78 100	
77 24.5	17.5 26.3
50 20.4	15.5 23.3

Manual Integrations

APPROVED

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



#44

2,2,4-Trimethylpentane

Concen: 0.103 ppbv m

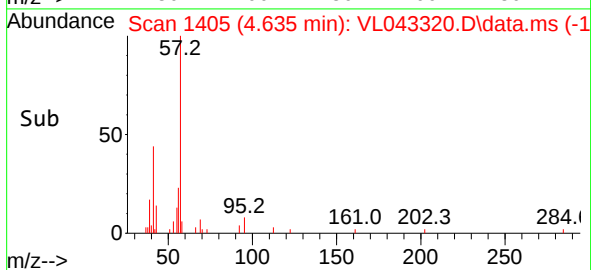
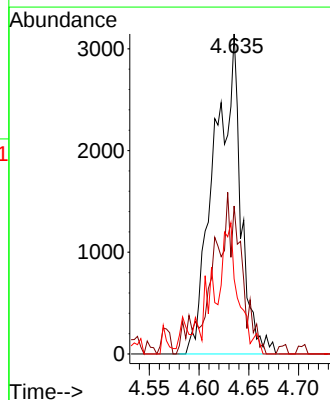
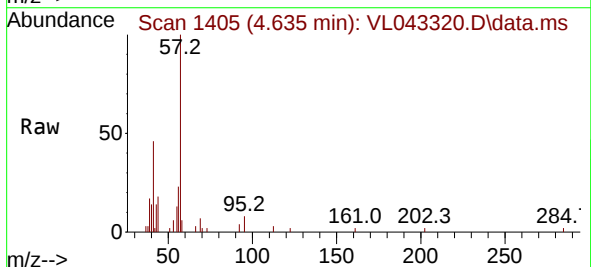
RT: 4.635 min Scan# 1405

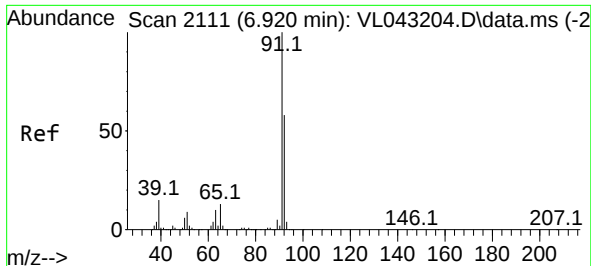
Delta R.T. 0.010 min

Lab File: VL043320.D

Acq: 08 Dec 2025 19:21

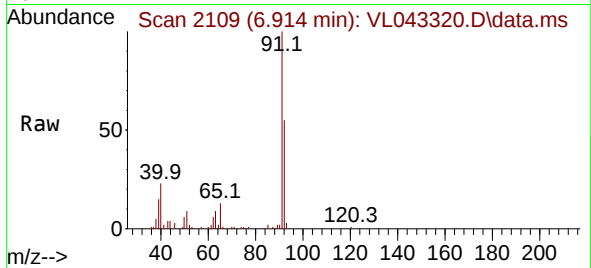
Tgt Ion: 57	Resp: 5845
Ion Ratio	Lower Upper
57 100	
41 0.0	28.0 42.0#
56 0.0	25.6 38.4#





#53
Toluene
Concen: 0.465 ppbv
RT: 6.914 min Scan# 2111
Delta R.T. -0.007 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

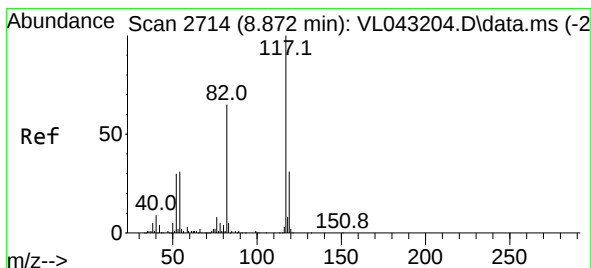
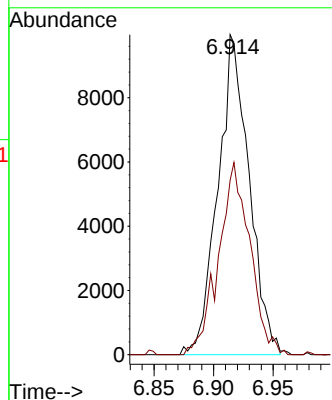
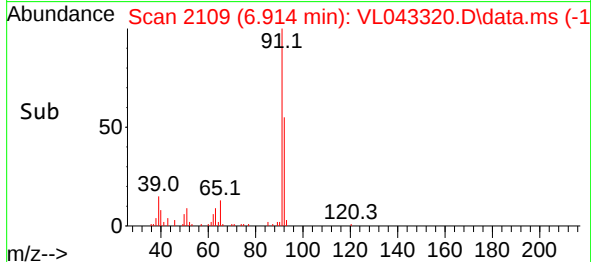
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 91 Resp: 18124
Ion Ratio Lower Upper
91 100
92 60.9 47.4 71.0

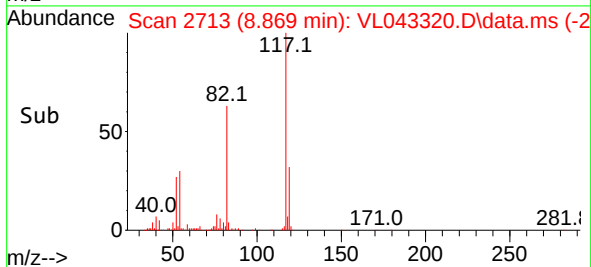
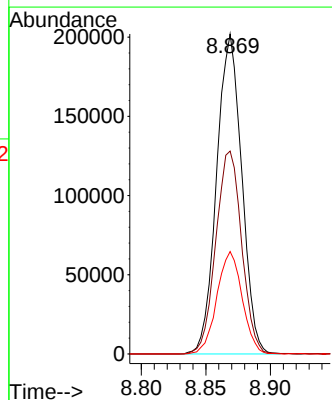
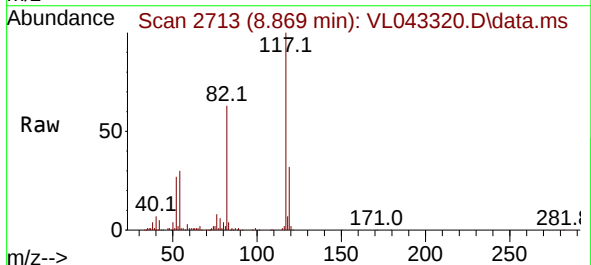
Manual Integrations
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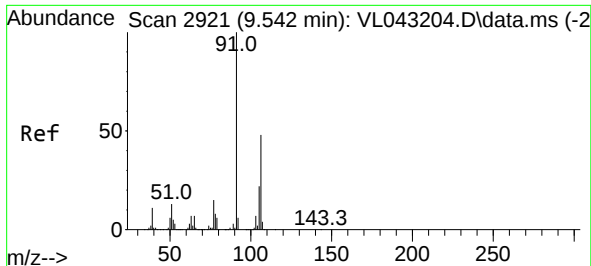
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.003 min
Lab File: VL043320.D
Acq: 08 Dec 2025 19:21

Tgt Ion:117 Resp: 273285
Ion Ratio Lower Upper
117 100
82 65.2 56.1 84.1
119 32.2 25.0 37.6





#59

m/p-Xylene

Concen: 0.134 ppbv m

RT: 9.519 min Scan# 2914

Delta R.T. -0.023 min

Lab File: VL043320.D

Acq: 08 Dec 2025 19:21

Instrument :

MSVOA_L

ClientSampleId :

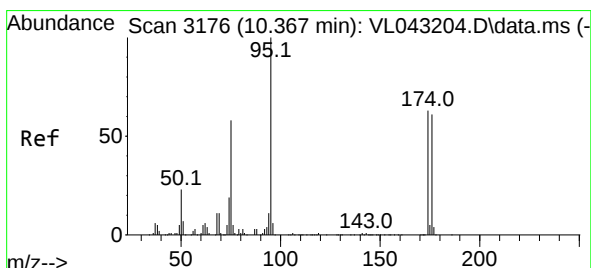
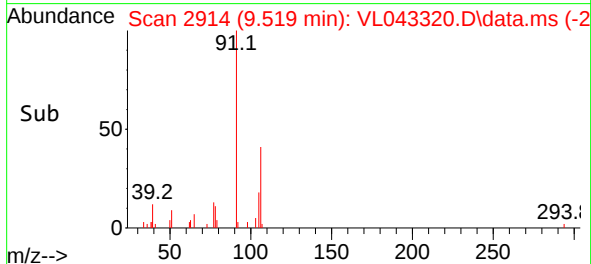
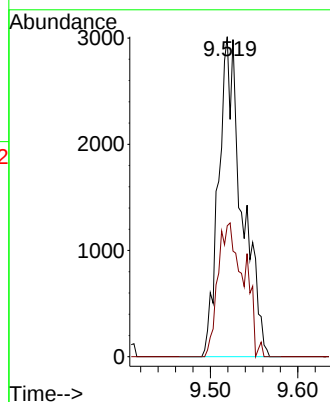
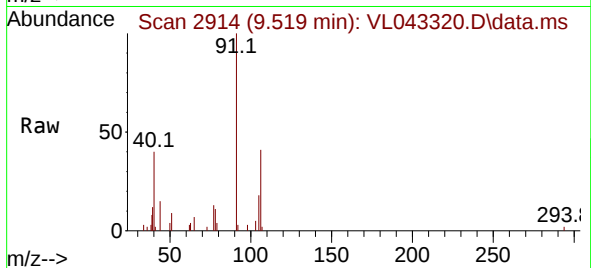
IA1

Tgt Ion: 91 Resp: 5630
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.1 54.1

Manual Integrations

APPROVED

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



#68

1-Bromo-4-Fluorobenzene

Concen: 10.080 ppbv

RT: 10.364 min Scan# 3175

Delta R.T. -0.003 min

Lab File: VL043320.D

Acq: 08 Dec 2025 19:21

Tgt Ion: 95 Resp: 201922
 Ion Ratio Lower Upper
 95 100
 174 67.5 50.2 75.2
 175 5.0 4.1 6.1

