

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
 Data File : VL043317.D
 Acq On : 08 Dec 2025 17:36
 Operator : SY/MD
 Sample : Q3797-02
 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 00:13:42 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	2.780	49	144001	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	379495	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.868	117	304741	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	225713	10.105	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.495	85	8554	0.421	ppbv	95
3) Chlorodifluoromethane	1.473	51	5881m	0.294	ppbv	
4) Chloromethane	1.531	50	3692	0.486	ppbv	95
9) Propene	1.486	41	18607	2.194	ppbv #	1
10) Heptane	4.965	43	7117m	0.282	ppbv	
11) Trichlorofluoromethane	1.877	101	4519	0.230	ppbv	92
13) Ethanol	1.719	45	788201	264.272	ppbv	97
15) Acetone	1.832	43	273197	13.655	ppbv	99
17) tert-Butyl alcohol	2.039	59	5055	0.192	ppbv	95
19) Isopropyl Alcohol	1.884	45	215579	19.069	ppbv	89
20) Methylene Chloride	2.059	84	30349	4.735	ppbv	91
26) Hexane	2.819	57	8950	0.473	ppbv #	74
29) Chloroform	2.842	83	48321	1.797	ppbv	92
34) 2-Butanone	2.551	43	25393	0.948	ppbv	97
35) Carbon Tetrachloride	3.751	117	2097m	0.073	ppbv	
36) Benzene	3.648	78	6265	0.172	ppbv #	90
38) Trichloroethene	4.528	130	597m	0.042	ppbv	
41) Tetrahydrofuran	3.052	42	5383m	0.364	ppbv	
43) Methyl Methacrylate	4.868	69	4024m	0.209	ppbv	
52) Tetrachloroethene	8.202	164	996m	0.074	ppbv	
53) Toluene	6.920	91	20077m	0.467	ppbv	
58) Ethyl Benzene	9.338	91	9249	0.158	ppbv #	80
59) m/p-Xylene	9.519	91	34647	0.737	ppbv	100
60) o-Xylene	9.950	91	10962	0.233	ppbv	93
61) Styrene	9.859	104	5673	0.276	ppbv	99
74) 1,2,4-Trimethylbenzene	11.529	105	5265	0.100	ppbv #	54
79) Naphthalene	13.507	128	9541	0.205	ppbv #	94

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

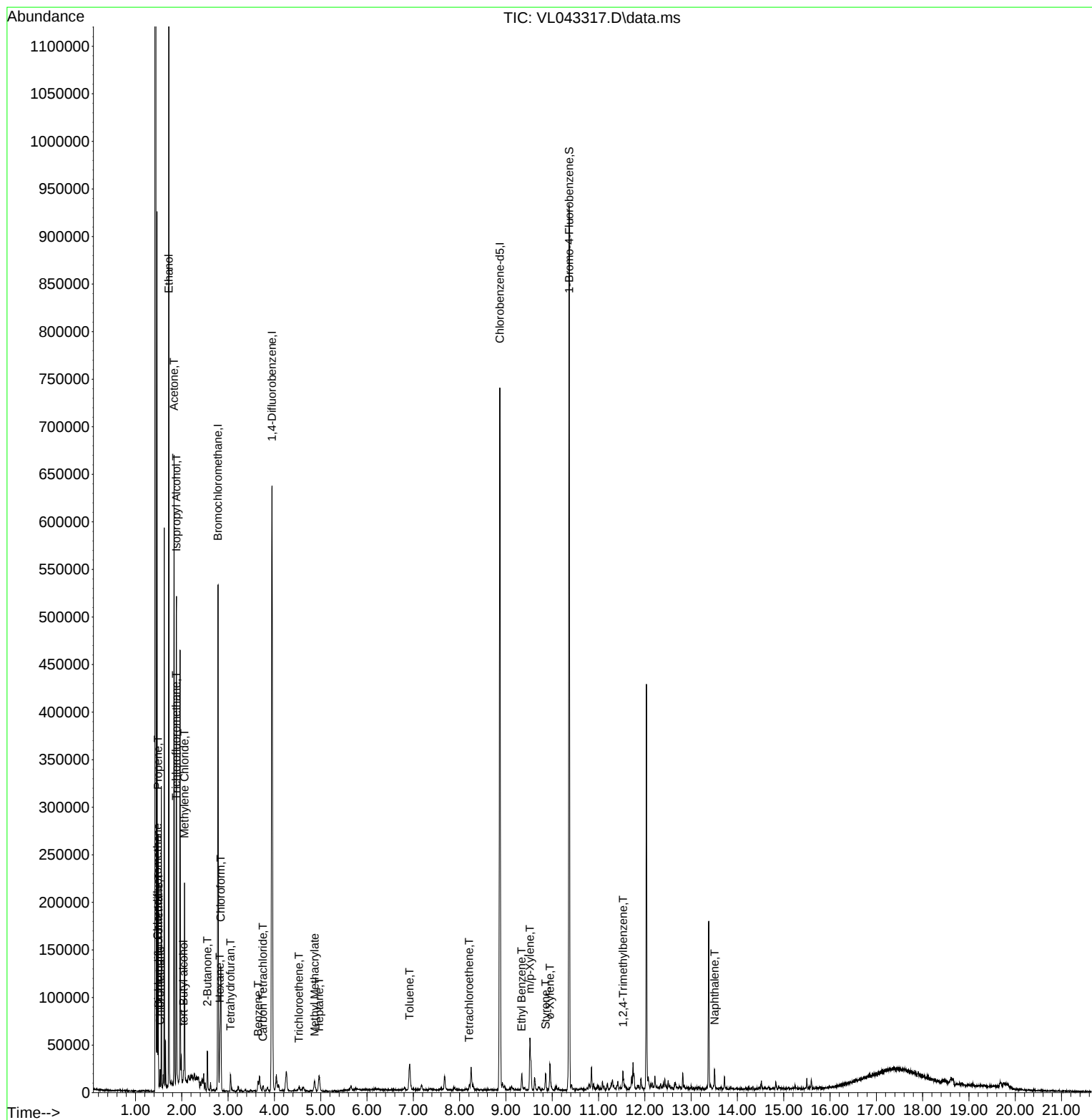
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043317.D
Acq On : 08 Dec 2025 17:36
Operator : SY/MD
Sample : Q3797-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

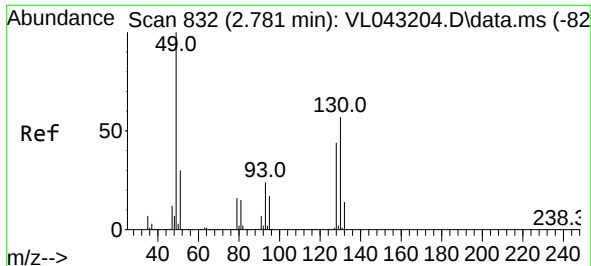
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Dec 09 00:13:42 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

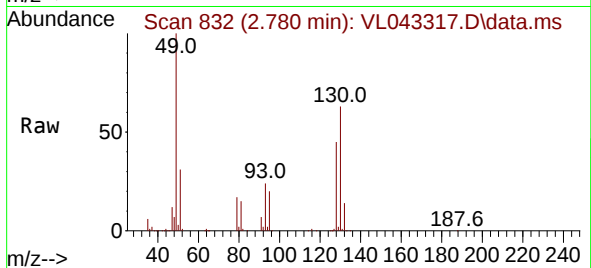
Reviewed By : Semsettin Yesilyurt 12/09/2025
Supervised By : Mahesh Dadoda 12/11/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 832
Delta R.T. -0.001 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

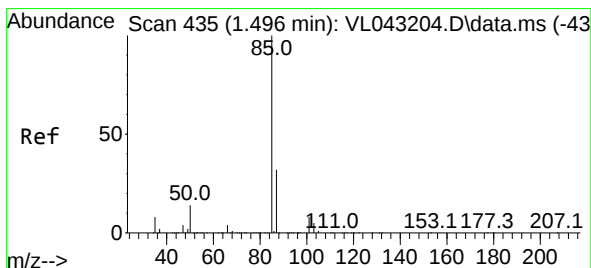
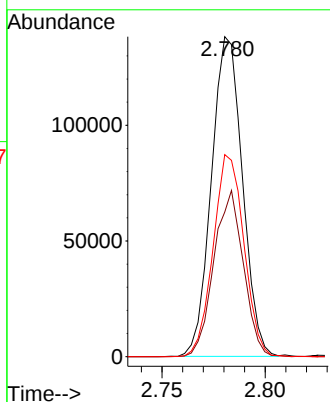
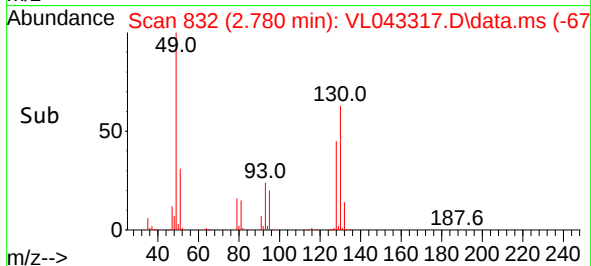
Instrument :
MSVOA_L
ClientSampleId :
IA1



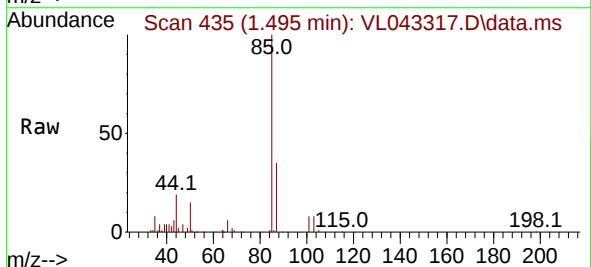
Tgt Ion: 49 Resp: 14400
Ion Ratio Lower Upper
49 100
128 49.6 23.0 69.0
130 62.8 29.9 89.7

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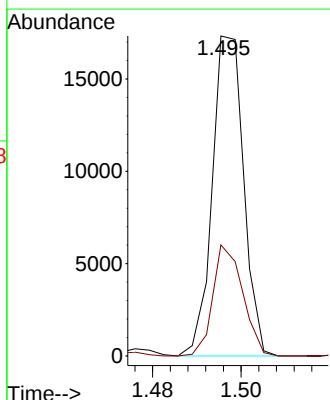
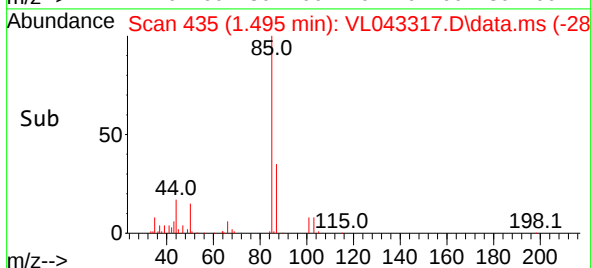
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

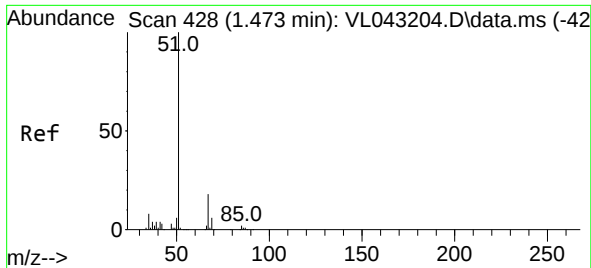


#2
Dichlorodifluoromethane
Concen: 0.421 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36



Tgt Ion: 85 Resp: 8554
Ion Ratio Lower Upper
85 100
87 34.7 25.4 38.2





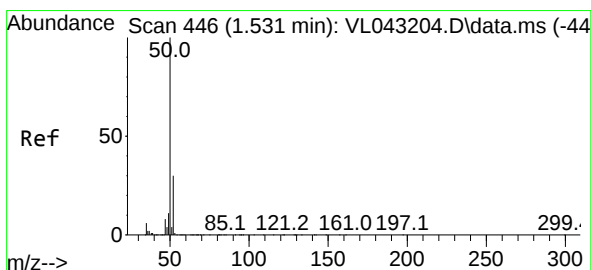
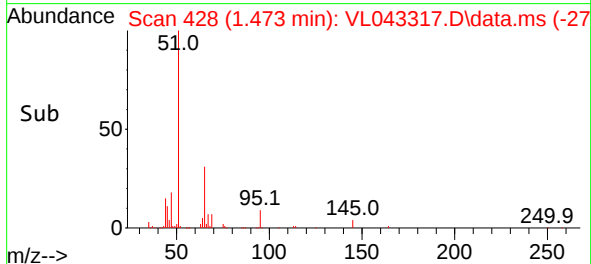
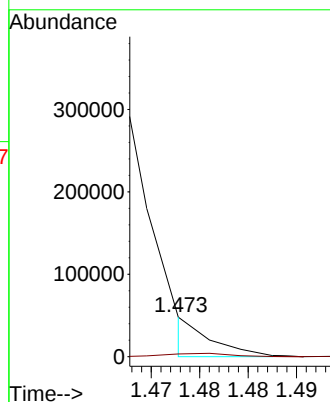
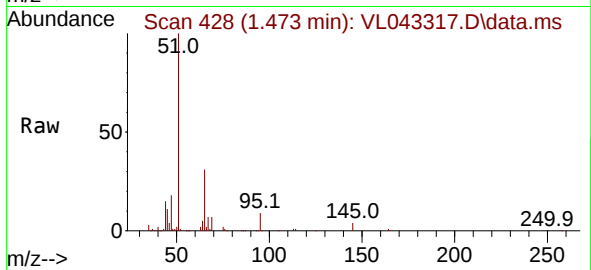
#3
Chlorodifluoromethane
Concen: 0.294 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 588
Ion Ratio Lower Upper
51 100
67 32.5 14.9 22.3

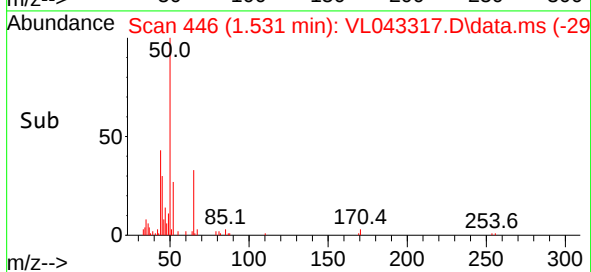
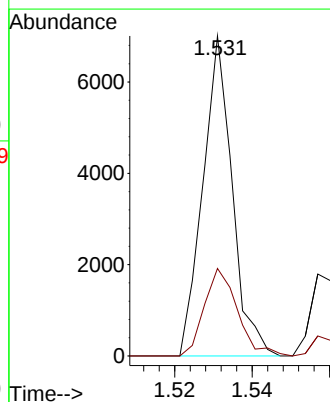
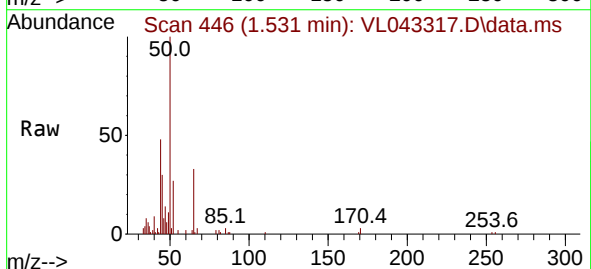
Manual Integrations
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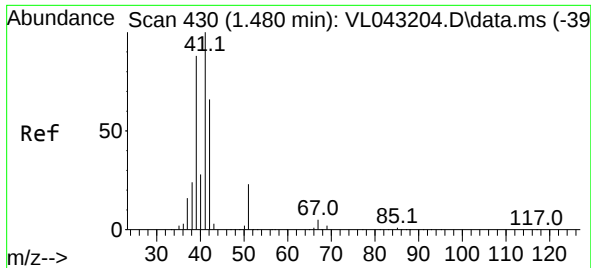
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#4
Chloromethane
Concen: 0.486 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

Tgt Ion: 50 Resp: 3692
Ion Ratio Lower Upper
50 100
52 27.3 24.1 36.1





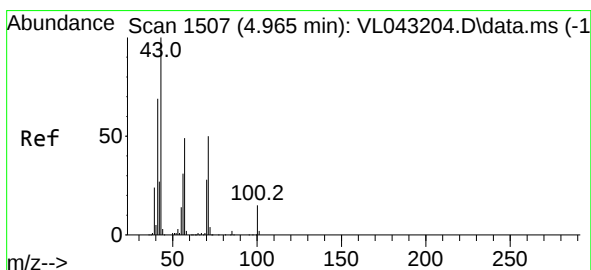
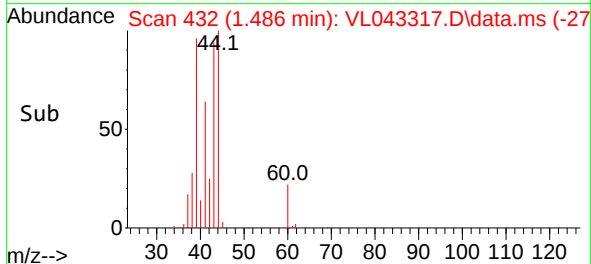
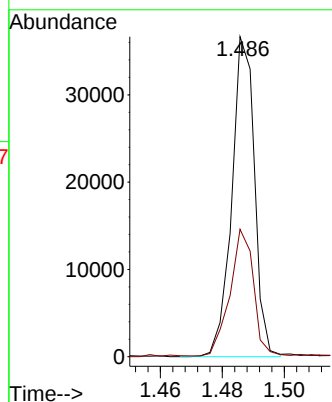
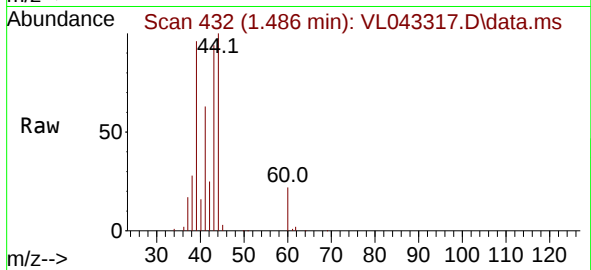
#9
Propene
Concen: 2.194 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 41 Resp: 1860
Ion Ratio Lower Upper
41 100
42 46.4 3.7 5.5

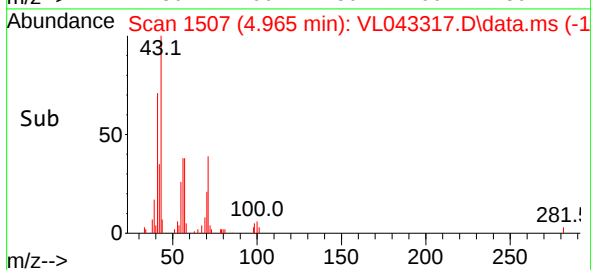
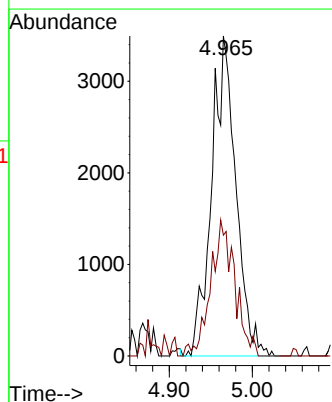
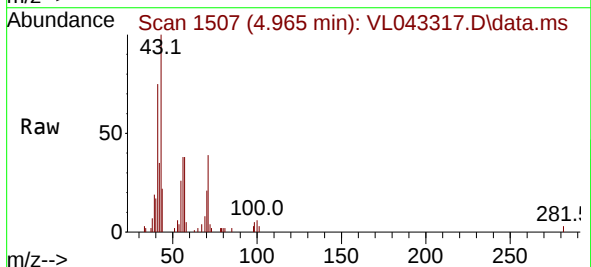
Manual Integrations
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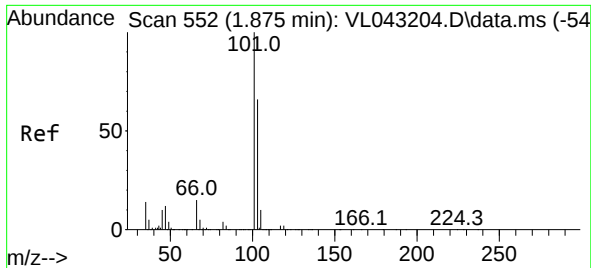
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#10
Heptane
Concen: 0.282 ppbv m
RT: 4.965 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

Tgt Ion: 43 Resp: 7117
Ion Ratio Lower Upper
43 100
57 42.3 39.7 59.5





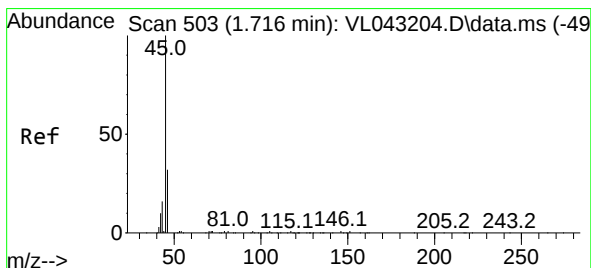
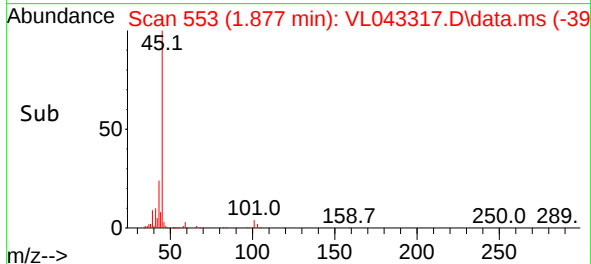
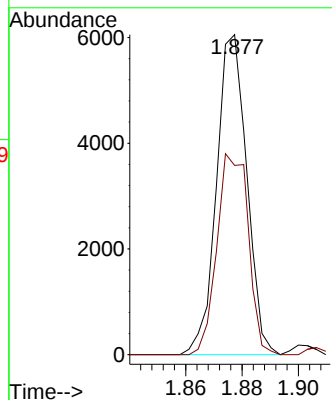
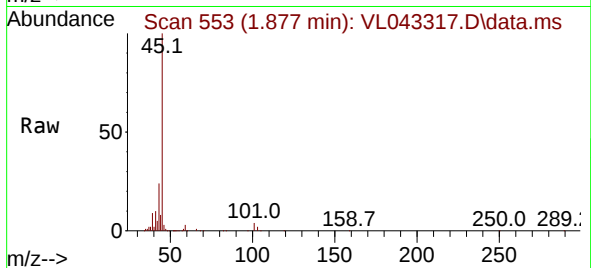
#11
Trichlorofluoromethane
Concen: 0.230 ppbv
RT: 1.877 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:101 Resp: 4519
Ion Ratio Lower Upper
101 100
103 59.2 52.6 79.0

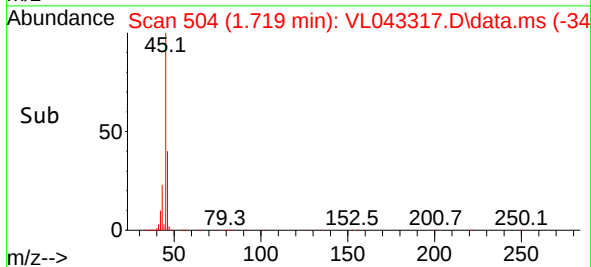
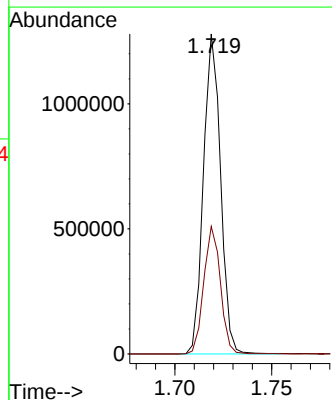
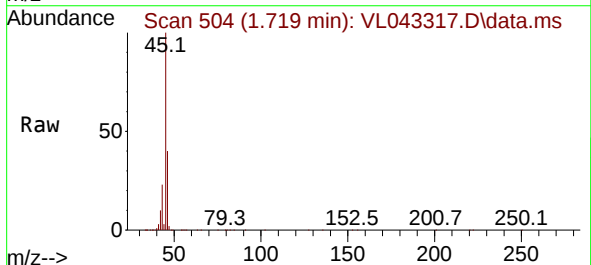
Manual Integrations
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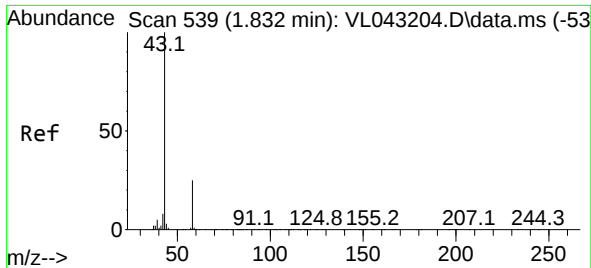
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#13
Ethanol
Concen: 264.272 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

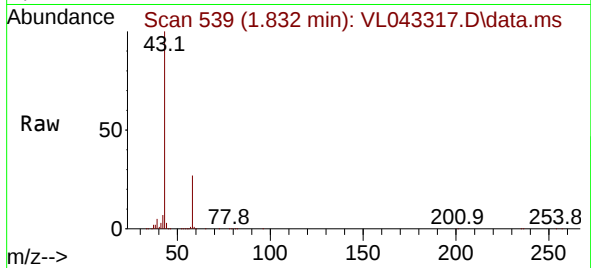
Tgt Ion: 45 Resp: 788201
Ion Ratio Lower Upper
45 100
46 39.0 15.0 59.8





#15
Acetone
Concen: 13.655 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

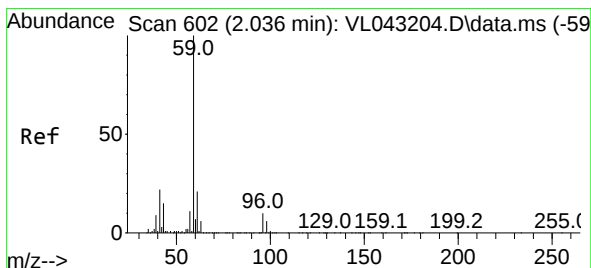
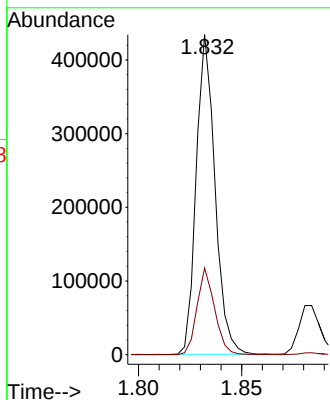
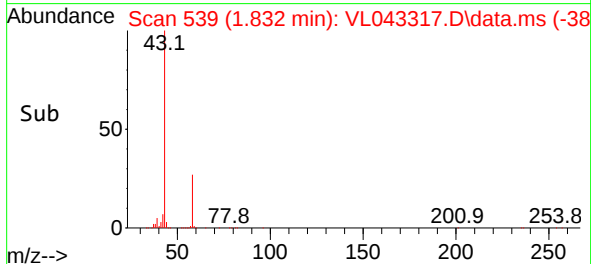
Instrument :
MSVOA_L
ClientSampleId :
IA1



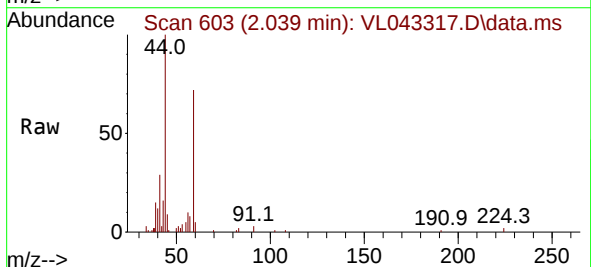
Tgt Ion: 43 Resp: 27319
Ion Ratio Lower Upper
43 100
58 25.5 20.7 31.1

Manual Integrations
APPROVED

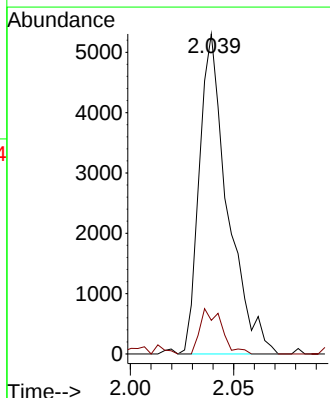
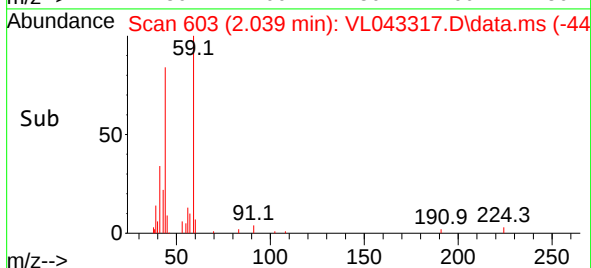
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

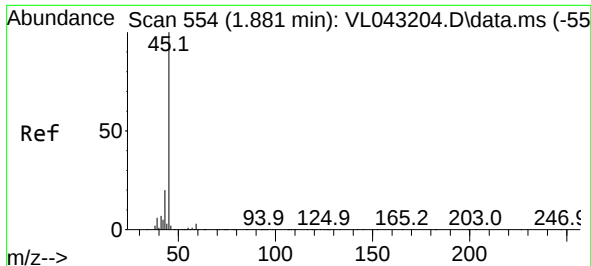


#17
tert-Butyl alcohol
Concen: 0.192 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36



Tgt Ion: 59 Resp: 5055
Ion Ratio Lower Upper
59 100
57 13.2 9.0 13.4





#19

Isopropyl Alcohol

Concen: 19.069 ppbv

RT: 1.884 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL043317.D

Acq: 08 Dec 2025 17:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 45 Resp: 215579

Ion Ratio Lower Upper

45 100

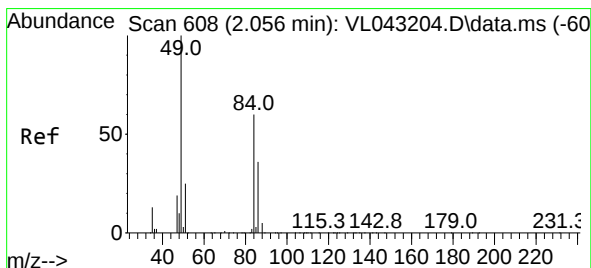
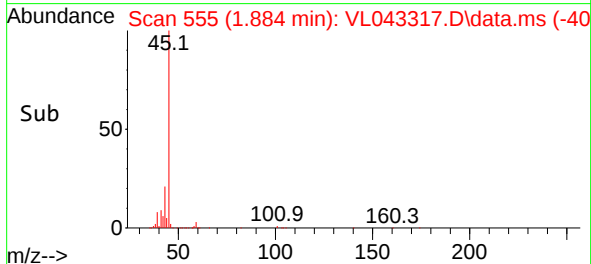
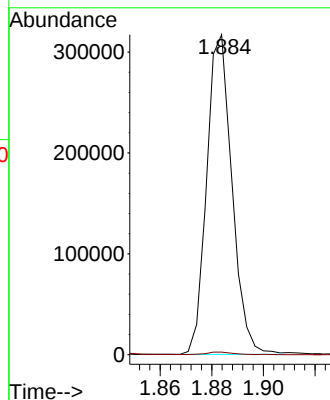
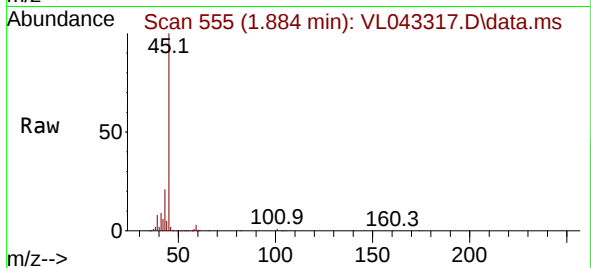
58 32.4 31.3 46.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025

Supervised By :Mahesh Dadoda 12/11/2025



#20

Methylene Chloride

Concen: 4.735 ppbv

RT: 2.059 min Scan# 609

Delta R.T. 0.003 min

Lab File: VL043317.D

Acq: 08 Dec 2025 17:36

Tgt Ion: 84 Resp: 30349

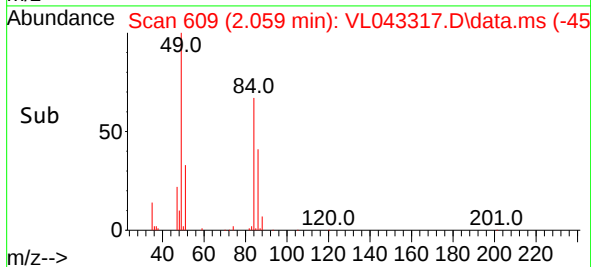
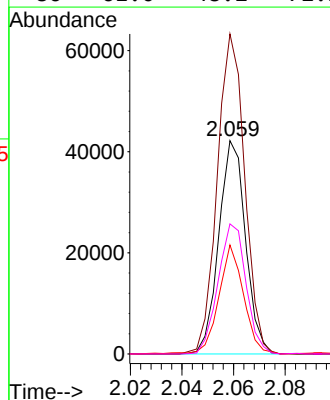
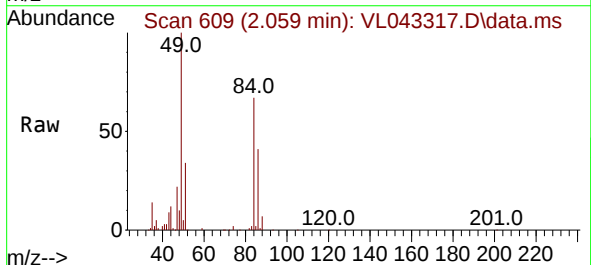
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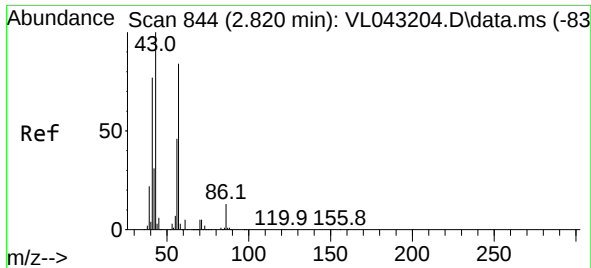
84 100

49 150.1 132.9 199.3

51 51.1 34.8 52.2

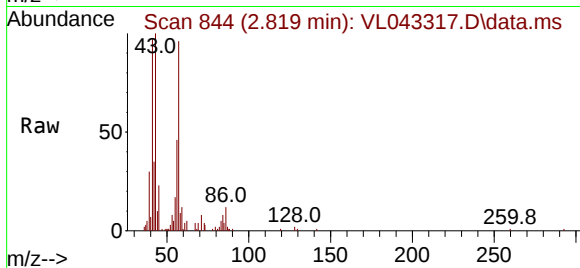
86 61.0 48.2 72.2





#26
Hexane
Concen: 0.473 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

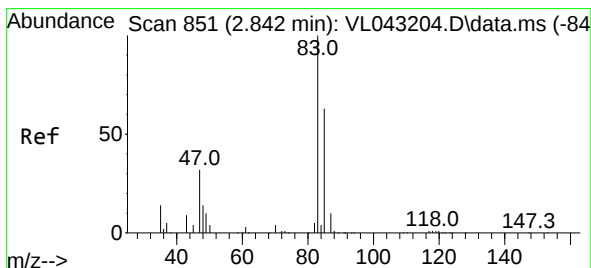
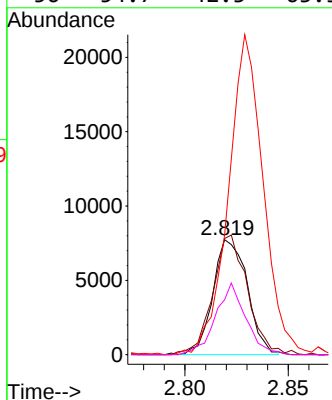
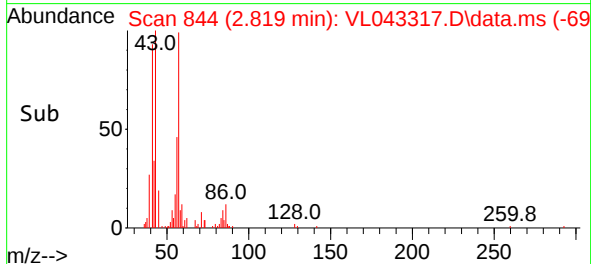
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 8950
Ion Ratio Lower Upper
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41 105.5 74.6 111.8
43 284.1 179.0 268.4
56 54.7 42.3 63.5

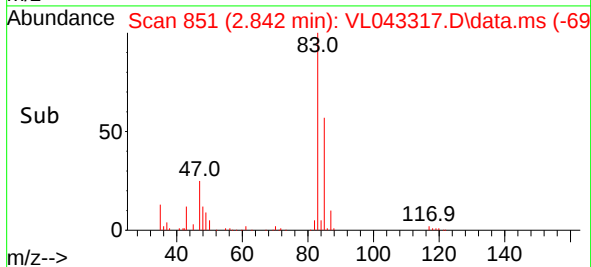
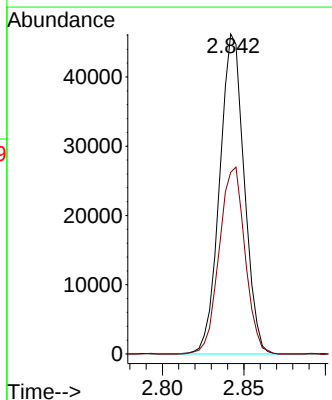
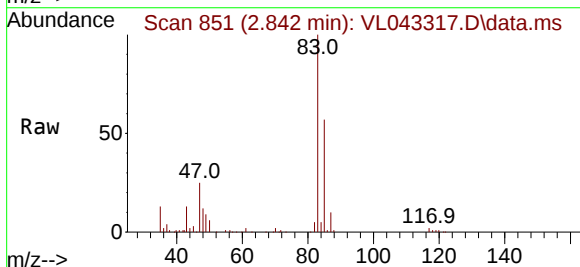
Manual Integrations
APPROVED

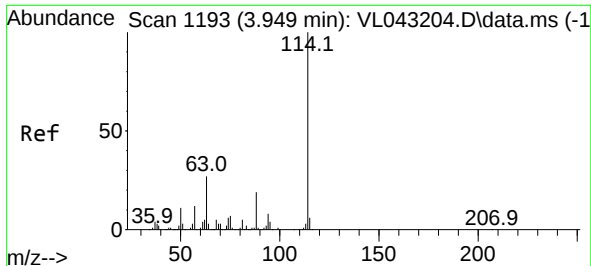
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#29
Chloroform
Concen: 1.797 ppbv
RT: 2.842 min Scan# 851
Delta R.T. -0.000 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

Tgt Ion: 83 Resp: 48321
Ion Ratio Lower Upper
83 100
85 56.8 50.5 75.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VL043317.D

Acq: 08 Dec 2025 17:36

Instrument :

MSVOA_L

ClientSampleId :

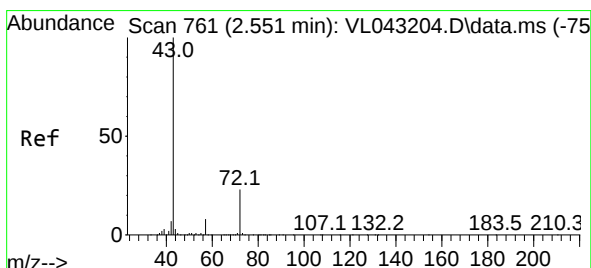
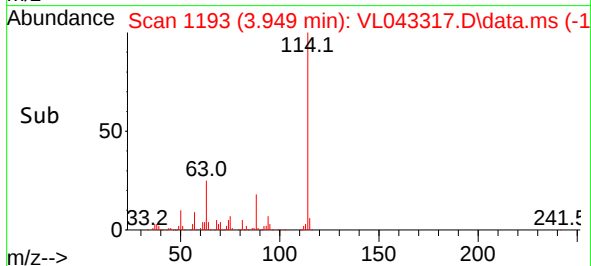
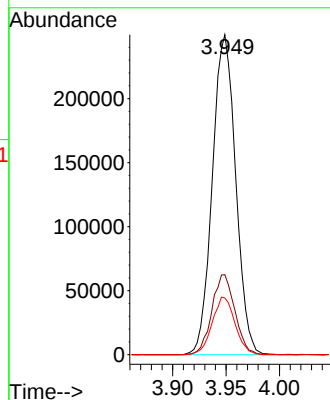
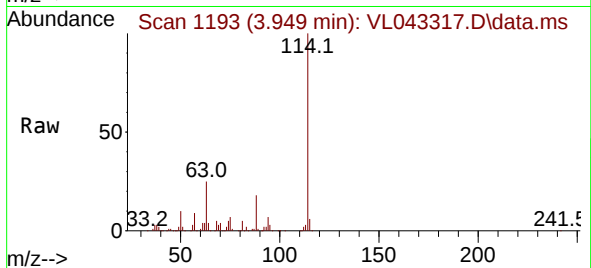
IA1

Tgt Ion:114 Resp: 37949
 Ion Ratio Lower Upper
 114 100
 63 24.7 21.0 31.6
 88 17.6 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: 0.948 ppbv

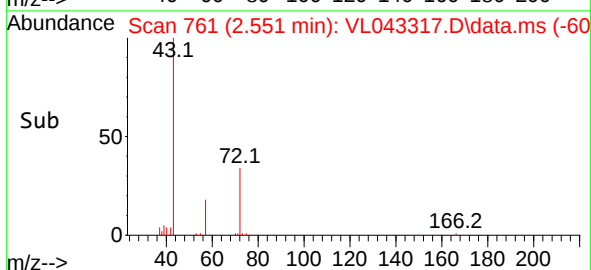
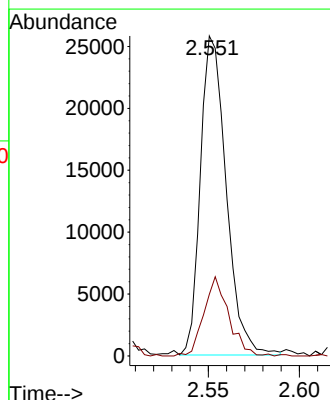
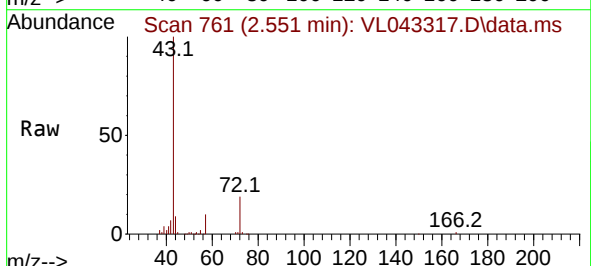
RT: 2.551 min Scan# 761

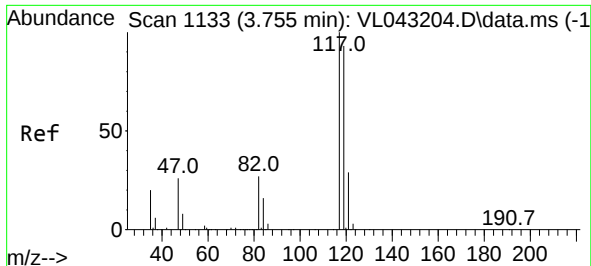
Delta R.T. -0.000 min

Lab File: VL043317.D

Acq: 08 Dec 2025 17:36

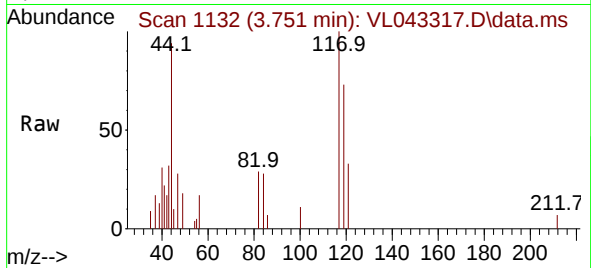
Tgt Ion: 43 Resp: 25393
 Ion Ratio Lower Upper
 43 100
 72 24.0 18.1 27.1





#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 3.751 min Scan# 1133
Delta R.T. -0.004 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

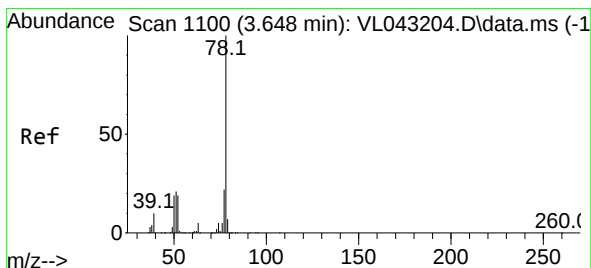
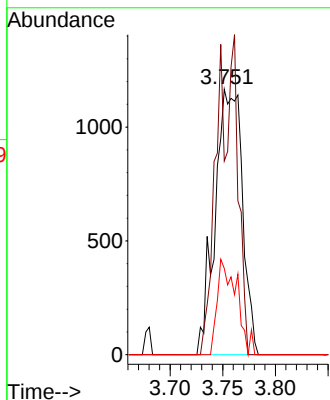
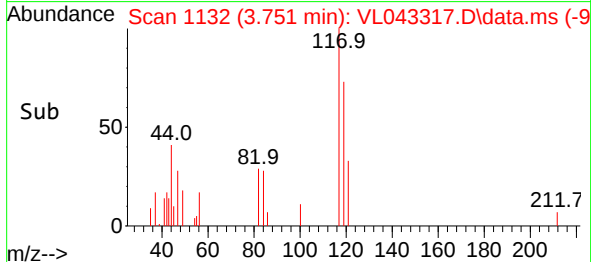
Instrument :
MSVOA_L
ClientSampleId :
IA1



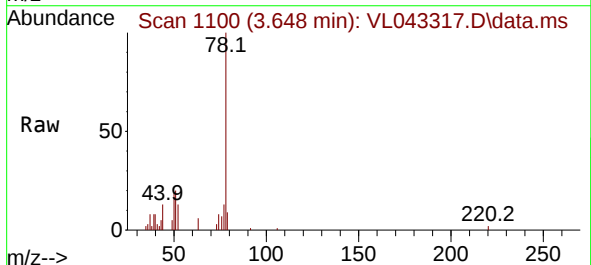
Tgt Ion:117 Resp: 2097
Ion Ratio Lower Upper
117 100
119 73.0 74.6 112.0#
121 32.5 23.2 34.8

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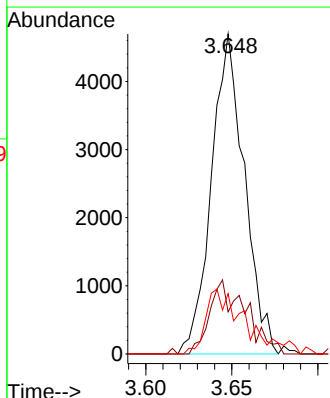
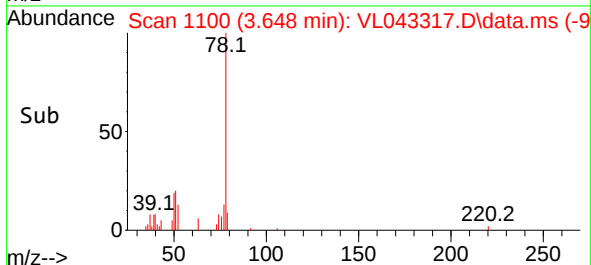
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

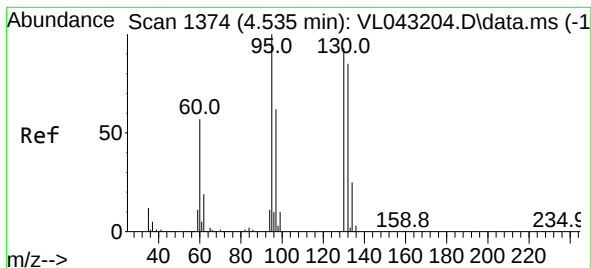


#36
Benzene
Concen: 0.172 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36



Tgt Ion: 78 Resp: 6265
Ion Ratio Lower Upper
78 100
77 13.1 17.5 26.3#
50 18.8 15.5 23.3





#38

Trichloroethene

Concen: 0.042 ppbv m

RT: 4.528 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL043317.D

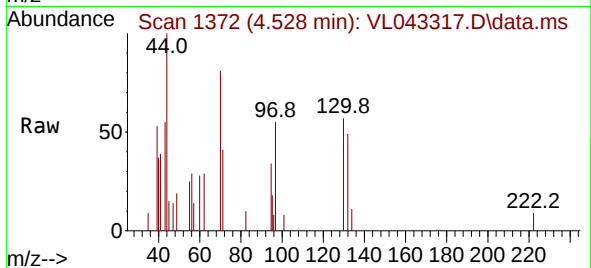
Acq: 08 Dec 2025 17:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

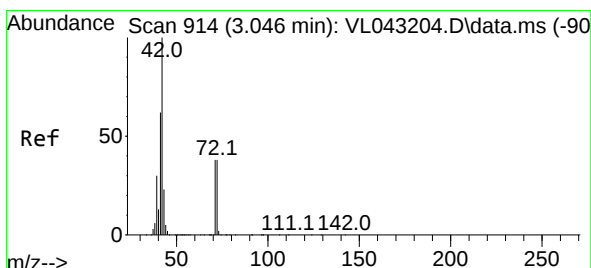
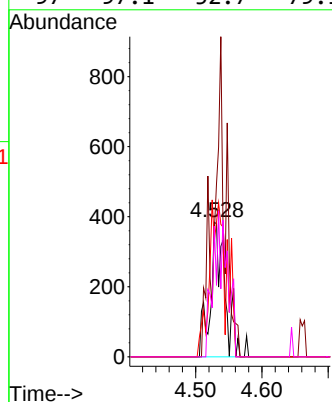
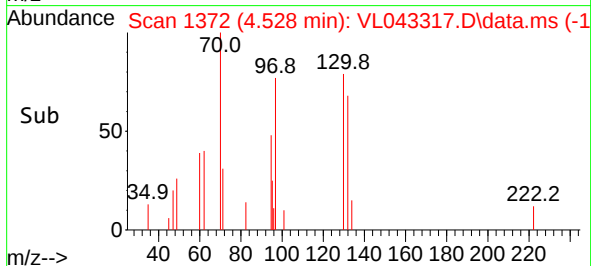


Tgt Ion:	130	Resp:	59
Ion	Ratio	Lower	Upper
130	100		
95	60.4	85.7	128.5
132	85.7	73.4	110.0
97	97.1	52.7	79.1

Manual Integrations

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



#41

Tetrahydrofuran

Concen: 0.364 ppbv m

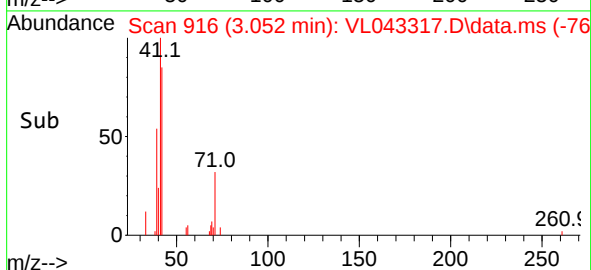
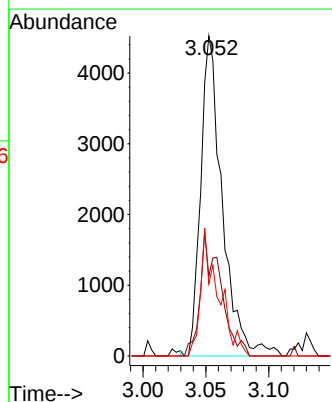
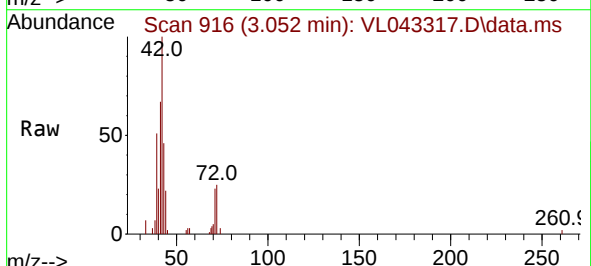
RT: 3.052 min Scan# 916

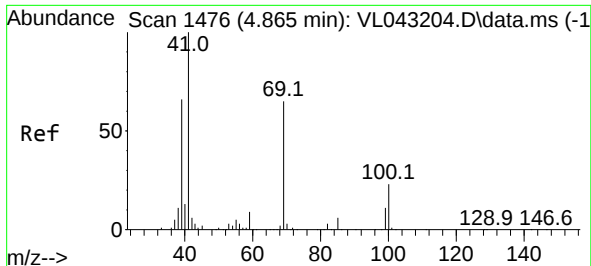
Delta R.T. 0.006 min

Lab File: VL043317.D

Acq: 08 Dec 2025 17:36

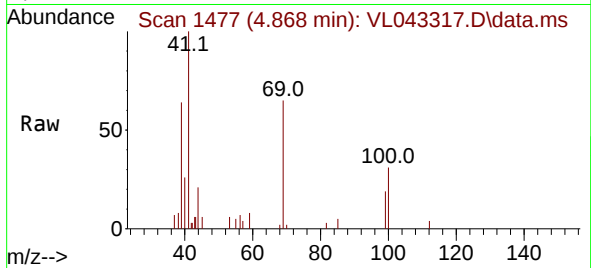
Tgt Ion:	42	Resp:	5383
Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.6	46.0
71	0.0	30.5	45.7





#43
Methyl Methacrylate
Concen: 0.209 ppbv m
RT: 4.868 min Scan# 1476
Delta R.T. 0.003 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

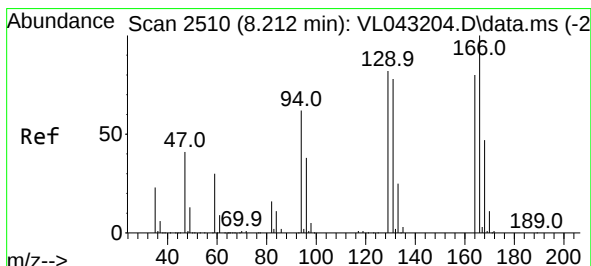
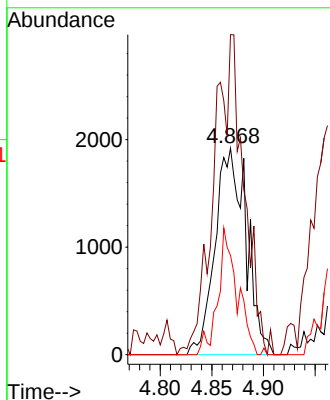
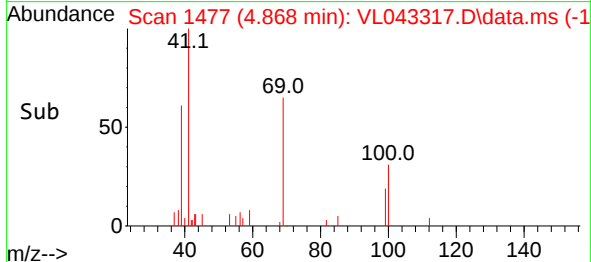
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 69 Resp: 4024
Ion Ratio Lower Upper
69 100
41 0.0 126.7 190.1#
100 38.1 28.6 43.0

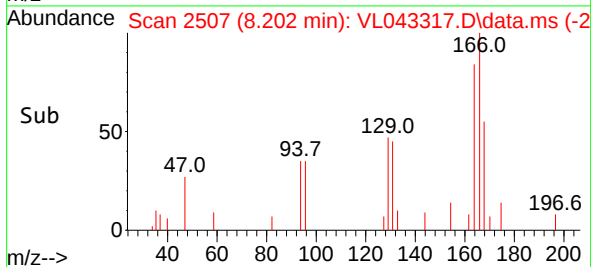
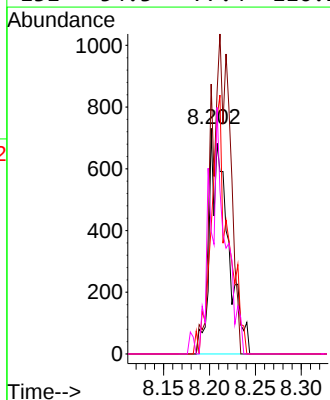
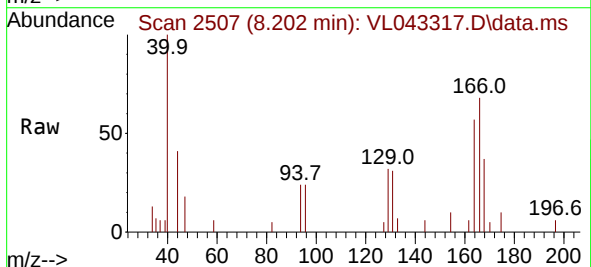
Manual Integrations
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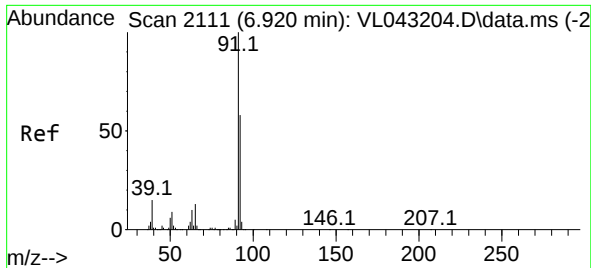
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#52
Tetrachloroethene
Concen: 0.074 ppbv m
RT: 8.202 min Scan# 2507
Delta R.T. -0.010 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

Tgt Ion:164 Resp: 996
Ion Ratio Lower Upper
164 100
166 119.7 99.4 149.2
129 56.1 81.8 122.8#
131 54.3 77.4 116.2#





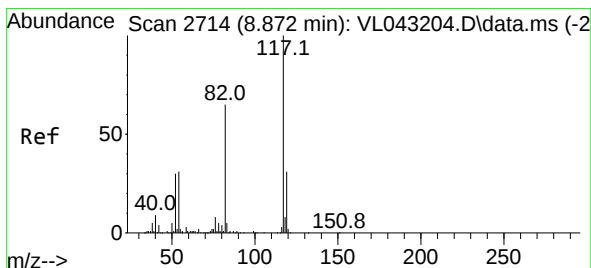
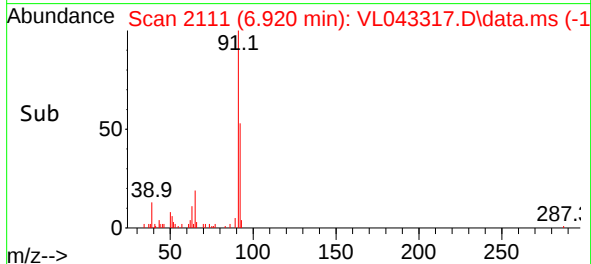
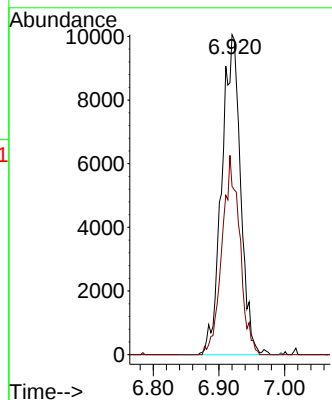
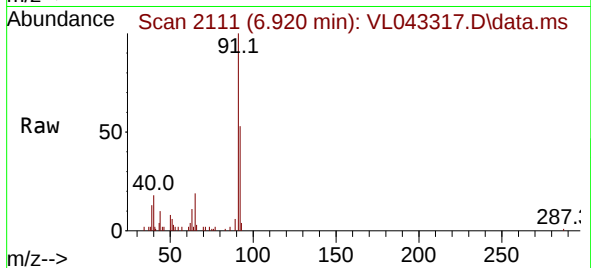
#53
Toluene
Concen: 0.467 ppbv m
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 2007
Ion Ratio Lower Upper
91 100
92 58.3 47.4 71.0

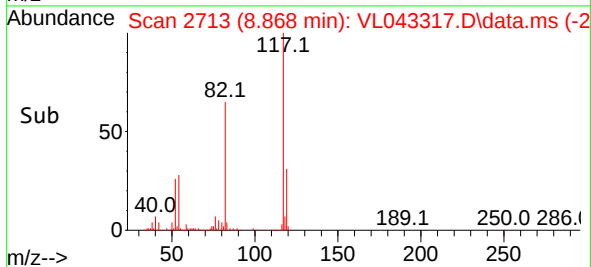
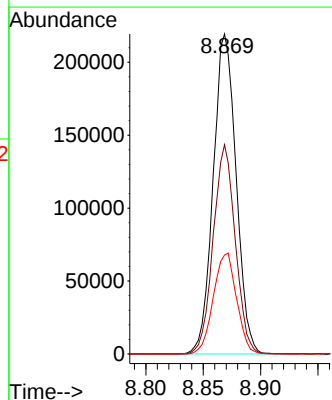
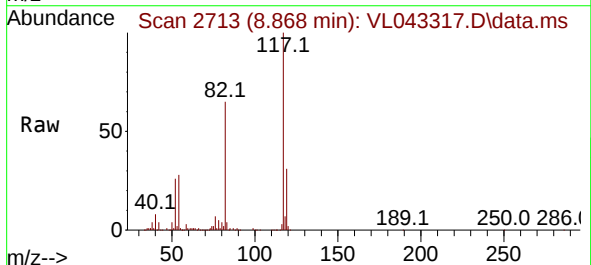
Manual Integrations
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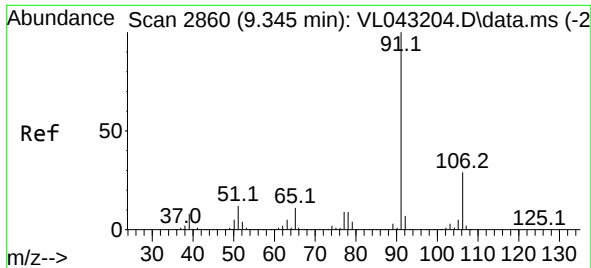
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.868 min Scan# 2713
Delta R.T. -0.004 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

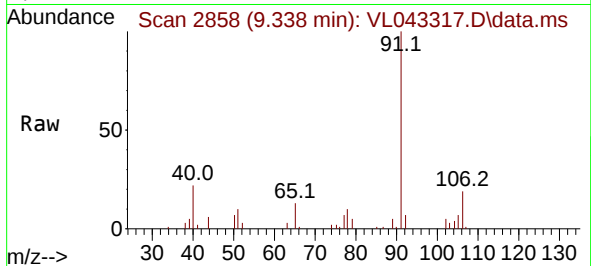
Tgt Ion:117 Resp: 304741
Ion Ratio Lower Upper
117 100
82 63.1 56.1 84.1
119 31.9 25.0 37.6





#58
Ethyl Benzene
Concen: 0.158 ppbv
RT: 9.338 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

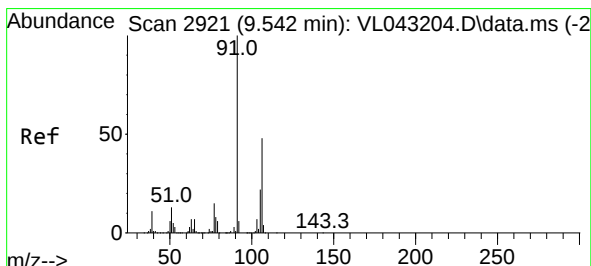
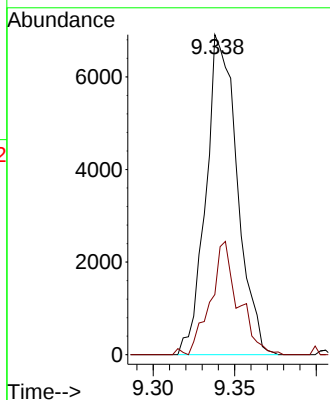
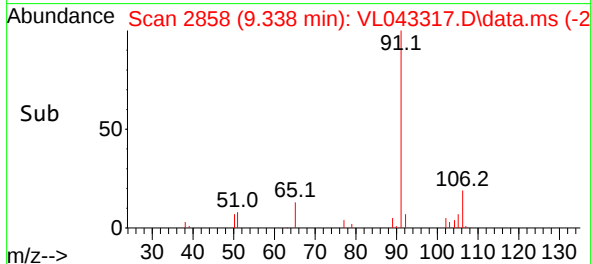
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 91 Resp: 9249
Ion Ratio Lower Upper
91 100
106 18.0 22.8 34.2

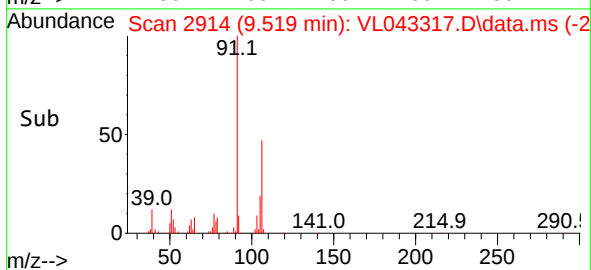
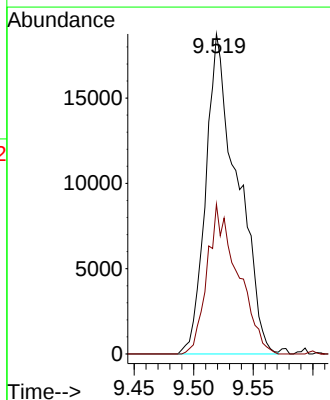
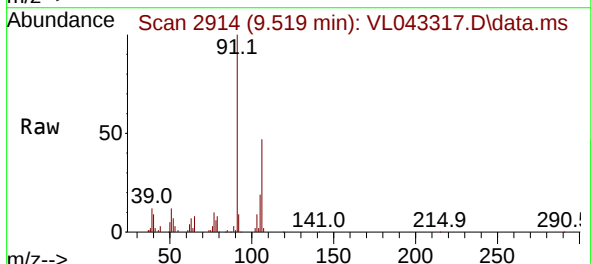
Manual Integrations
APPROVED

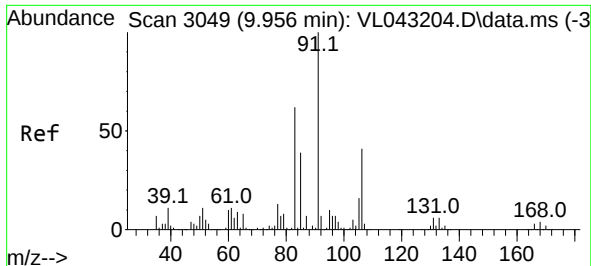
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#59
m/p-Xylene
Concen: 0.737 ppbv
RT: 9.519 min Scan# 2914
Delta R.T. -0.023 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

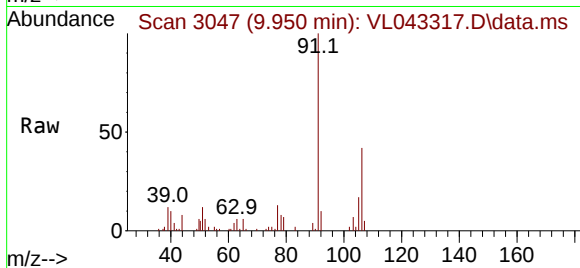
Tgt Ion: 91 Resp: 34647
Ion Ratio Lower Upper
91 100
106 45.3 36.1 54.1





#60
o-Xylene
Concen: 0.233 ppbv
RT: 9.950 min Scan# 3049
Delta R.T. -0.007 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

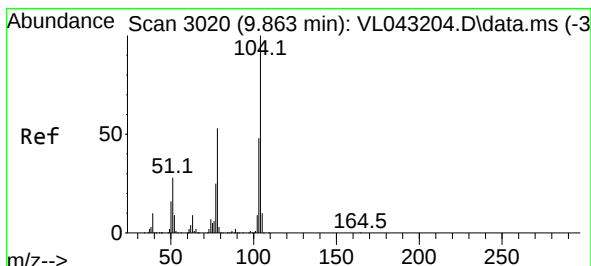
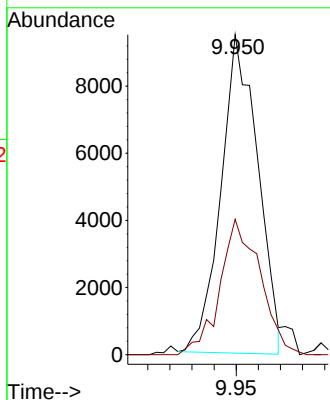
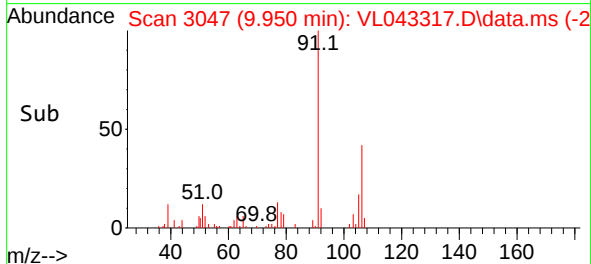
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 91 Resp: 10962
Ion Ratio Lower Upper
91 100
106 46.6 20.9 62.8

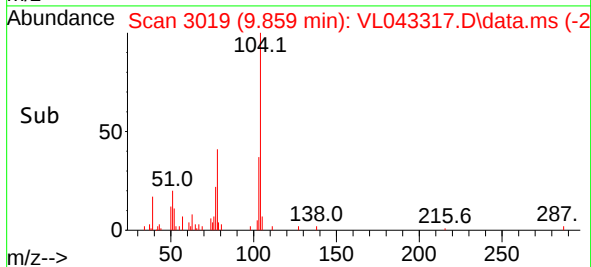
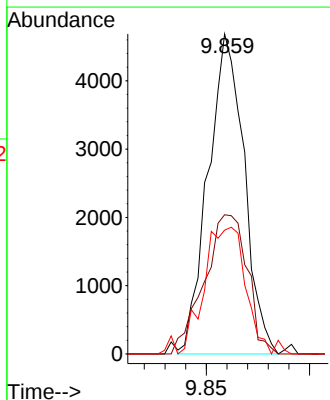
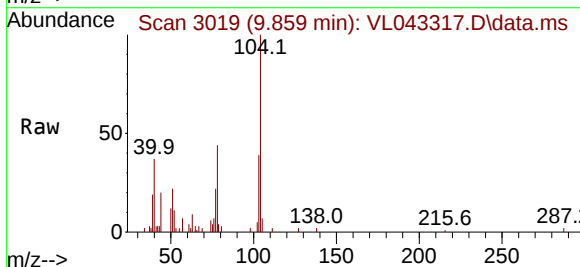
Manual Integrations
APPROVED

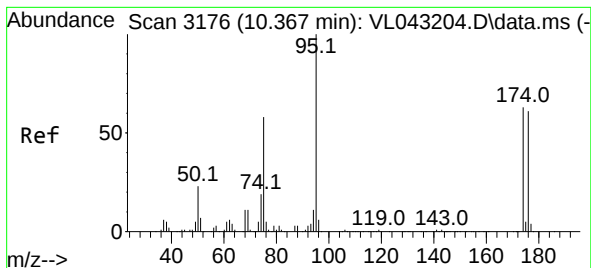
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#61
Styrene
Concen: 0.276 ppbv
RT: 9.859 min Scan# 3019
Delta R.T. -0.004 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

Tgt Ion:104 Resp: 5673
Ion Ratio Lower Upper
104 100
78 52.0 42.1 63.1
103 47.2 37.2 55.8





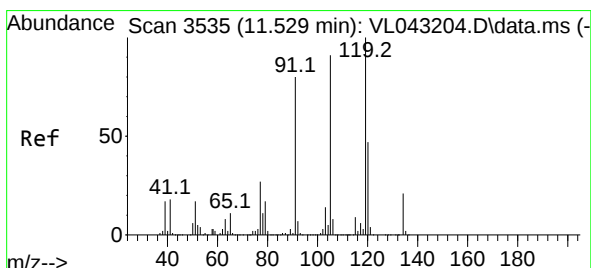
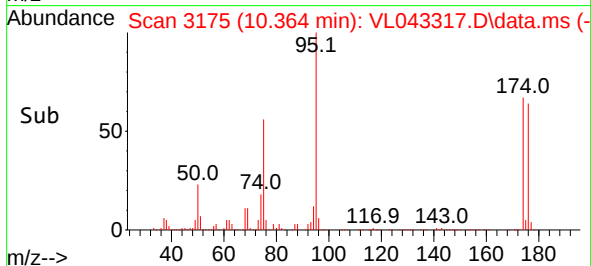
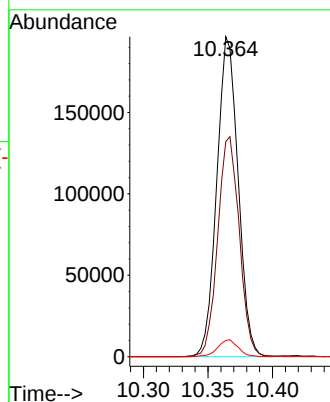
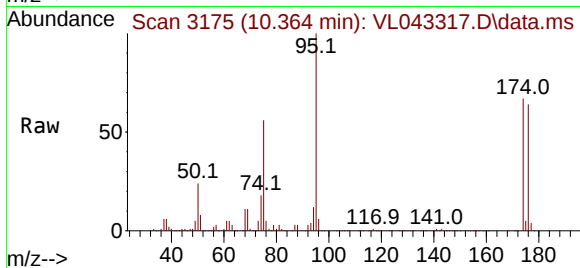
#68
1-Bromo-4-Fluorobenzene
Concen: 10.105 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.004 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 95 Resp: 22571
Ion Ratio Lower Upper
95 100
174 69.6 50.2 75.2
175 5.1 4.1 6.1

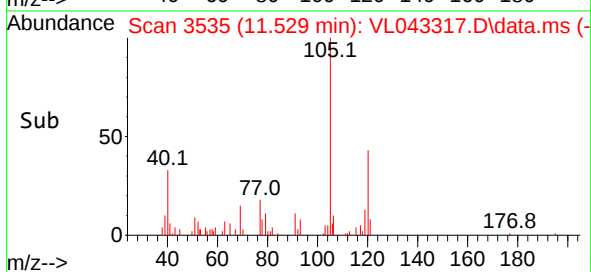
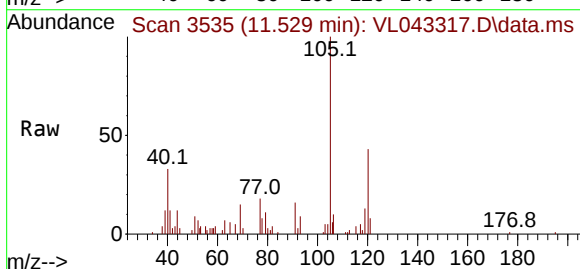
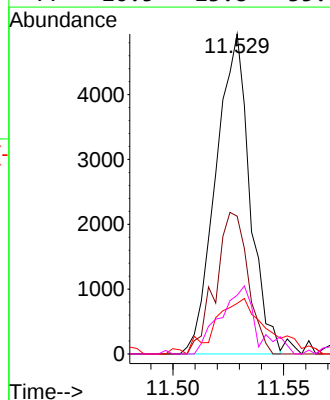
Manual Integrations
APPROVED

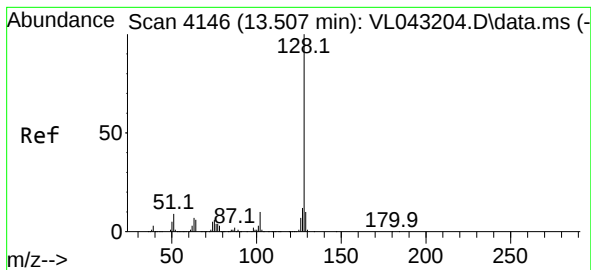
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.100 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

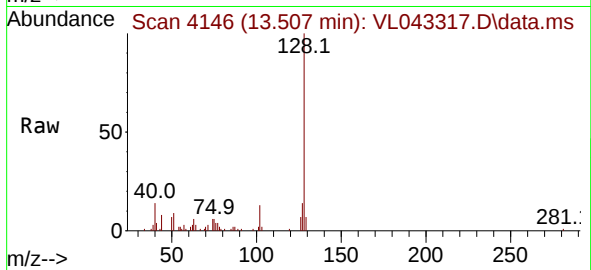
Tgt Ion:105 Resp: 5265
Ion Ratio Lower Upper
105 100
120 43.0 41.7 62.5
91 14.5 70.0 105.0#
77 26.5 23.8 35.8





#79
Naphthalene
Concen: 0.205 ppbv
RT: 13.507 min Scan# 4146
Delta R.T. -0.000 min
Lab File: VL043317.D
Acq: 08 Dec 2025 17:36

Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:	128	Resp:	954
Ion Ratio	Lower	Upper	
128	100		
127	13.8	9.9	14.9
129	7.3	8.4	12.6

Manual Integrations
APPROVED

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

