

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
 Data File : VL043314.D
 Acq On : 08 Dec 2025 15:37
 Operator : SY/MD
 Sample : Q3799-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 11-IA-1

Manual Integrations
 APPROVED

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

Quant Time: Dec 09 00:12:22 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	138499	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	354324	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	279503	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	214484	10.469	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.700%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	7849	0.402	ppbv	96
3) Chlorodifluoromethane	1.473	51	6392m	0.333	ppbv	
4) Chloromethane	1.531	50	3636	0.498	ppbv	94
9) Propene	1.483	41	6390	0.783	ppbv #	86
11) Trichlorofluoromethane	1.878	101	4305	0.227	ppbv	98
13) Ethanol	1.722	45	1527543	532.508	ppbv	91
15) Acetone	1.832	43	153023	7.952	ppbv	100
17) tert-Butyl alcohol	2.040	59	3031	0.120	ppbv	100
19) Isopropyl Alcohol	1.884	45	507615	46.685	ppbv #	37
20) Methylene Chloride	2.059	84	6519	0.396	ppbv	88
26) Hexane	2.823	57	22119	1.216	ppbv #	58
34) 2-Butanone	2.554	43	8673	0.347	ppbv #	90
35) Carbon Tetrachloride	3.755	117	2524	0.094	ppbv #	86
36) Benzene	3.648	78	5240	0.154	ppbv	94
52) Tetrachloroethene	8.215	164	1184m	0.094	ppbv	
53) Toluene	6.917	91	10274m	0.256	ppbv	
59) m/p-Xylene	9.519	91	5340m	0.124	ppbv	

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

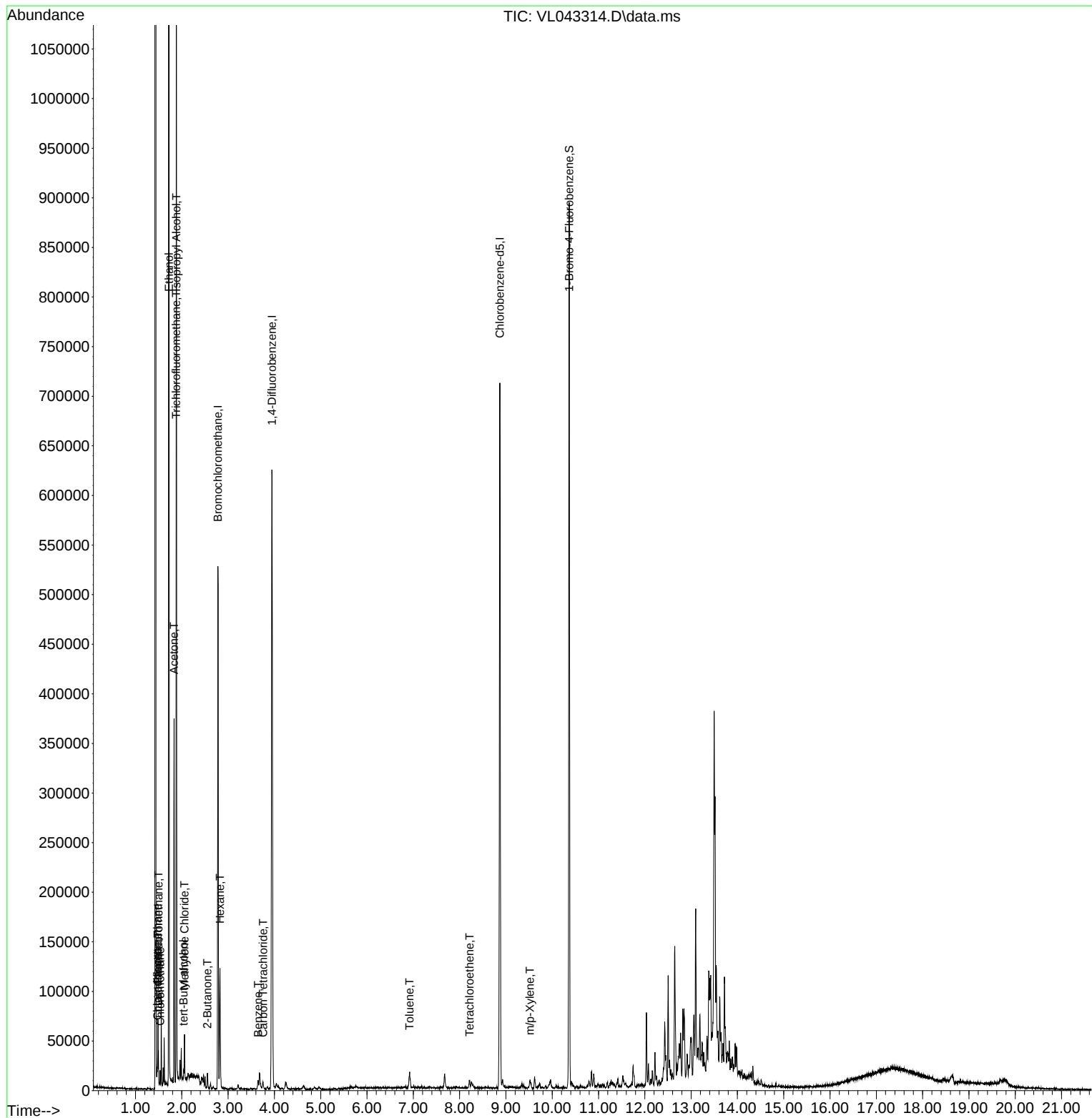
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Data File : VL043314.D
Acq On : 08 Dec 2025 15:37
Operator : SY/MD
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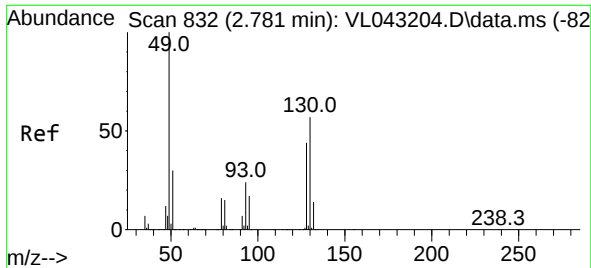
Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

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Supervised By :Mahesh Dadoda 12/11/2025

Quant Time: Dec 09 00:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





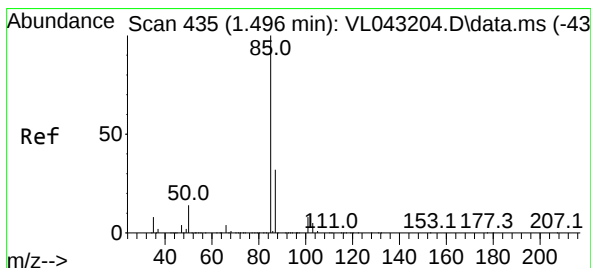
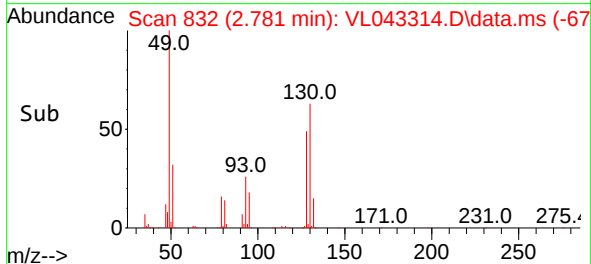
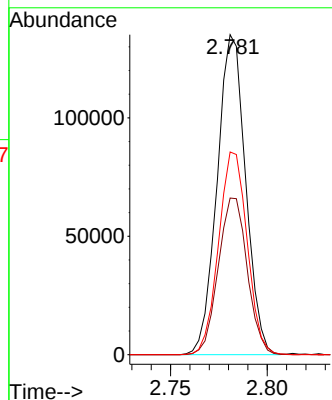
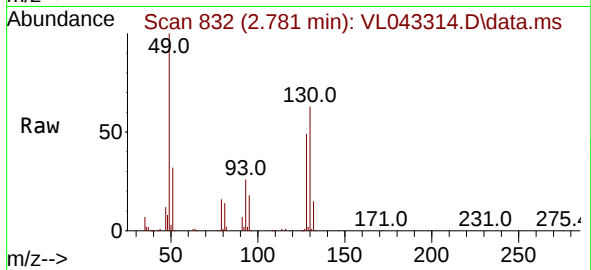
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 832
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 49 Resp: 138499
Ion Ratio Lower Upper
49 100
128 49.7 23.0 69.0
130 63.4 29.9 89.7

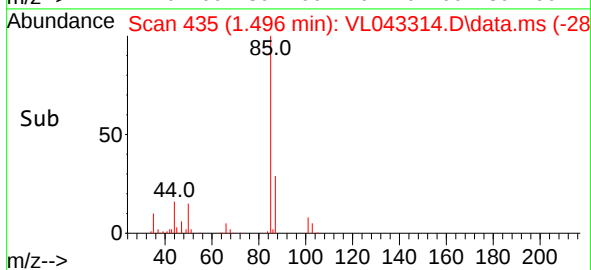
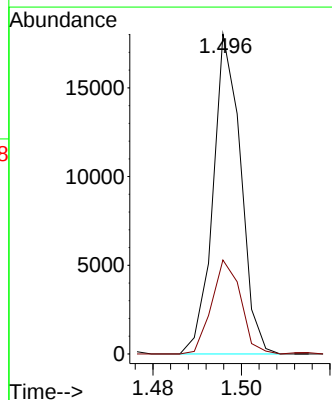
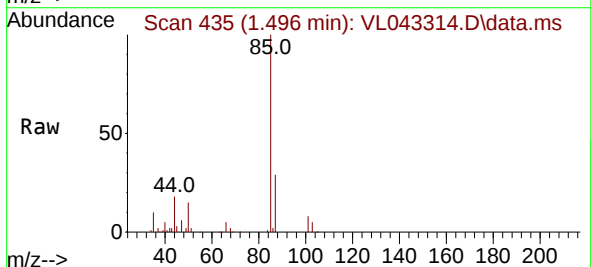
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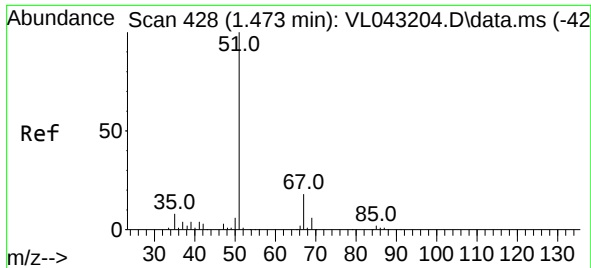
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#2
Dichlorodifluoromethane
Concen: 0.402 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 85 Resp: 7849
Ion Ratio Lower Upper
85 100
87 29.4 25.4 38.2





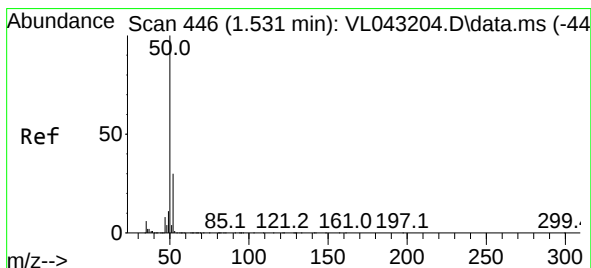
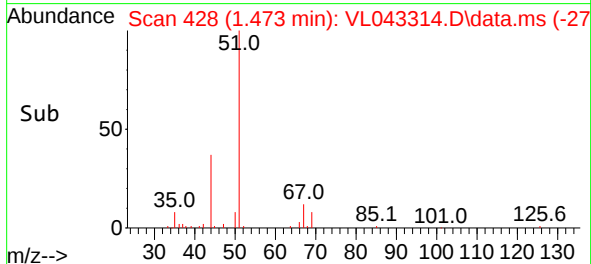
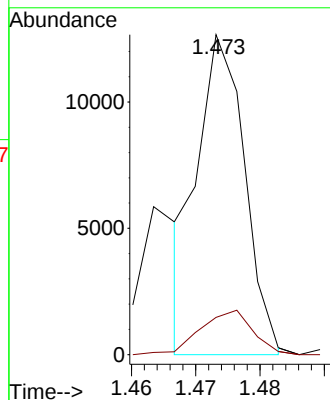
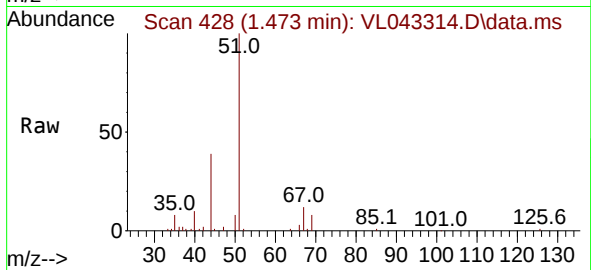
#3
Chlorodifluoromethane
Concen: 0.333 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 51 Resp: 6392
Ion Ratio Lower Upper
51 100
67 15.6 14.9 22.3

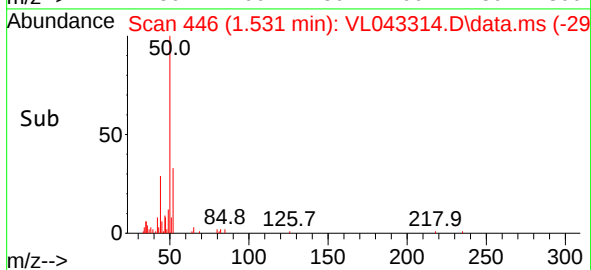
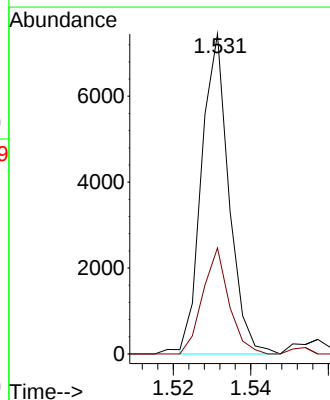
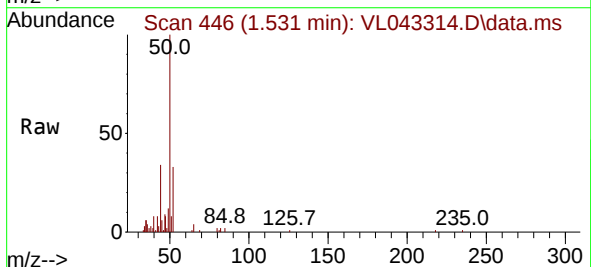
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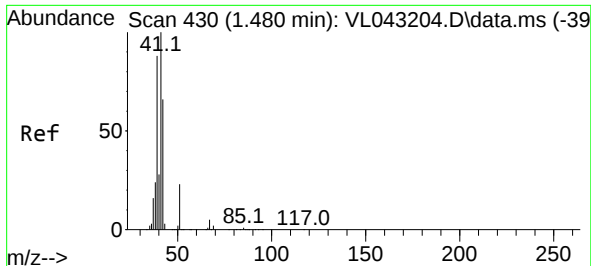
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#4
Chloromethane
Concen: 0.498 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 50 Resp: 3636
Ion Ratio Lower Upper
50 100
52 33.1 24.1 36.1





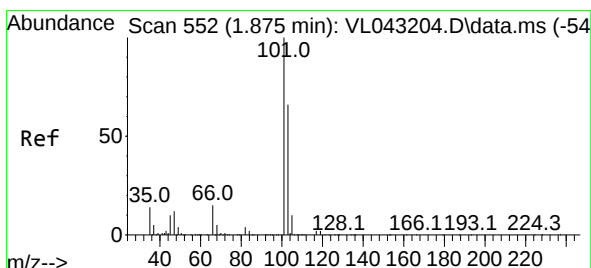
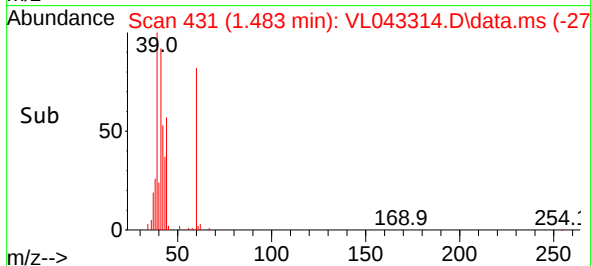
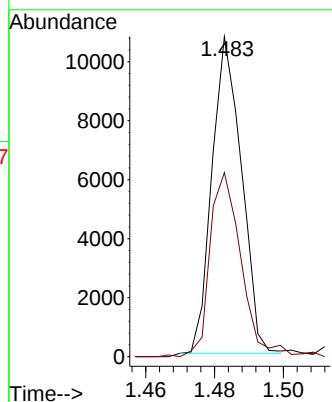
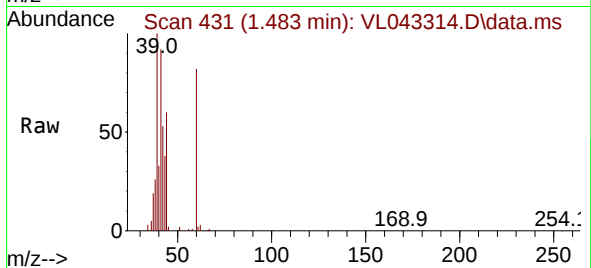
#9
Propene
Concen: 0.783 ppbv
RT: 1.483 min Scan# 411
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 41 Resp: 6390
Ion Ratio Lower Upper
41 100
42 0.0 3.7 5.5

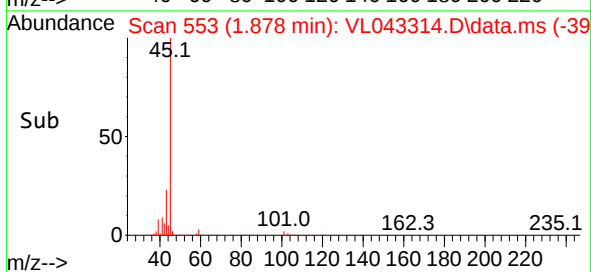
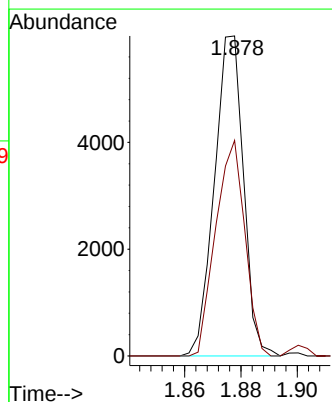
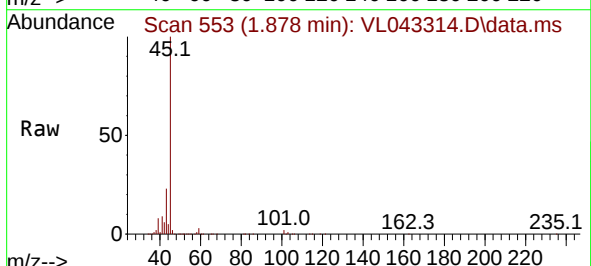
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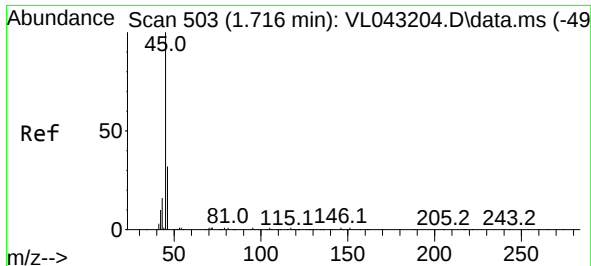
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion:101 Resp: 4305
Ion Ratio Lower Upper
101 100
103 67.4 52.6 79.0





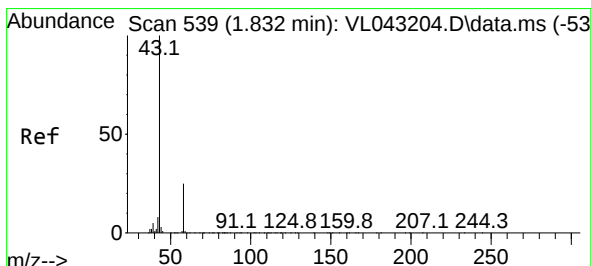
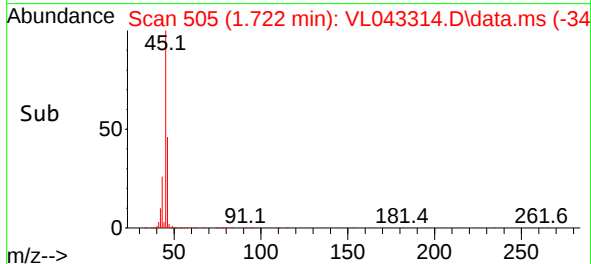
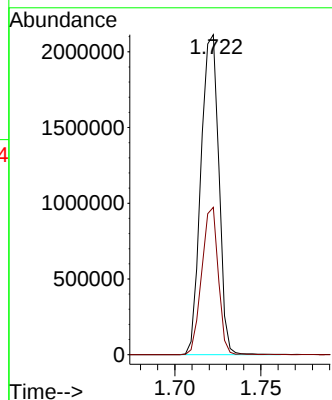
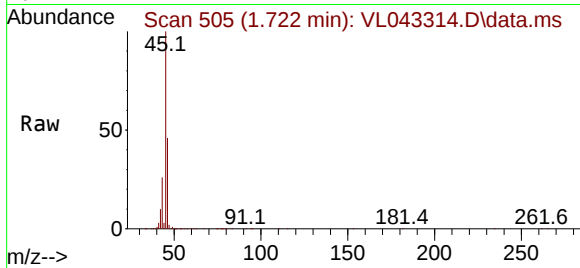
#13
Ethanol
Concen: 532.508 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 45 Resp: 152754
Ion Ratio Lower Upper
45 100
46 42.8 15.0 59.8

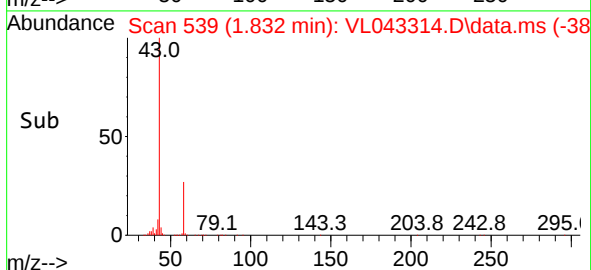
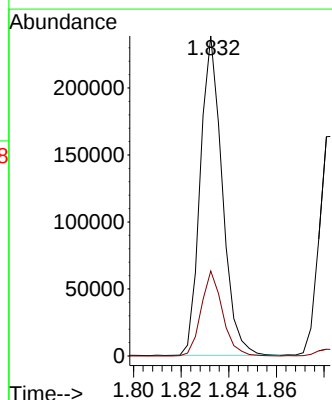
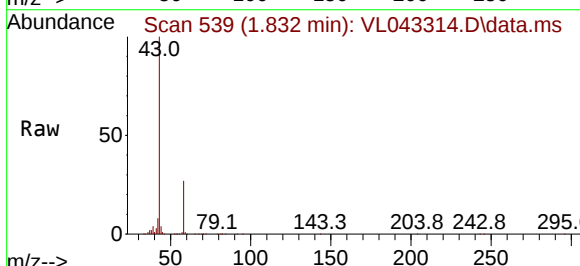
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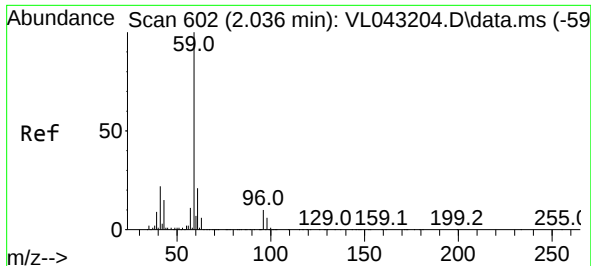
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#15
Acetone
Concen: 7.952 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 43 Resp: 153023
Ion Ratio Lower Upper
43 100
58 25.9 20.7 31.1





#17

tert-Butyl alcohol

Concen: 0.120 ppbv

RT: 2.040 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL043314.D

Acq: 08 Dec 2025 15:37

Instrument :

MSVOA_L

ClientSampleId :

11-IA-1

Tgt Ion: 59 Resp: 303

Ion Ratio Lower Upper

59 100

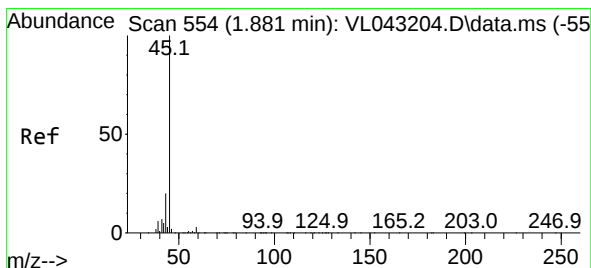
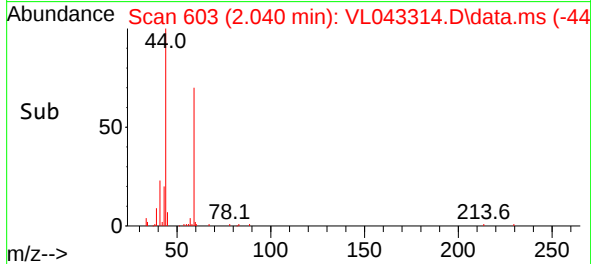
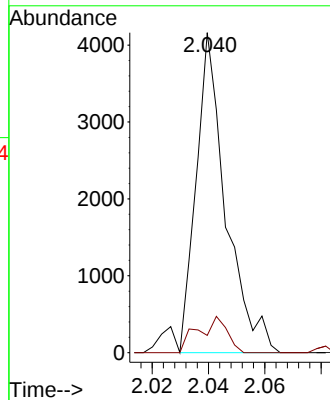
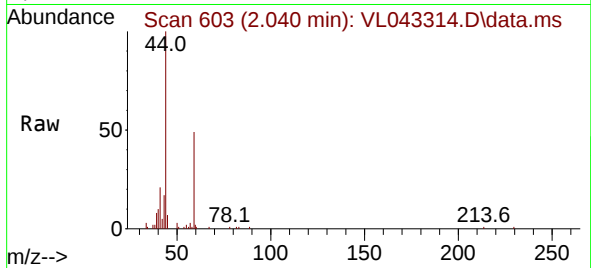
57 11.1 9.0 13.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/09/2025

Supervised By :Mahesh Dadoda 12/11/2025



#19

Isopropyl Alcohol

Concen: 46.685 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.003 min

Lab File: VL043314.D

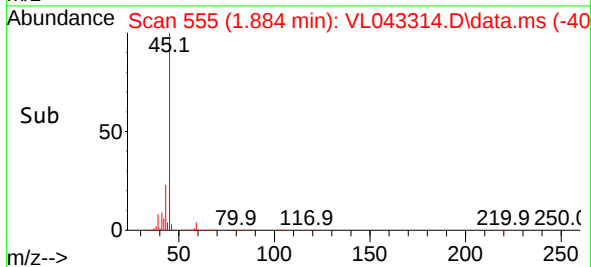
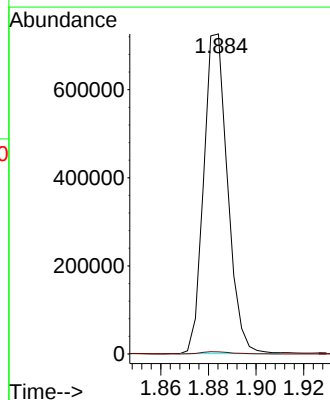
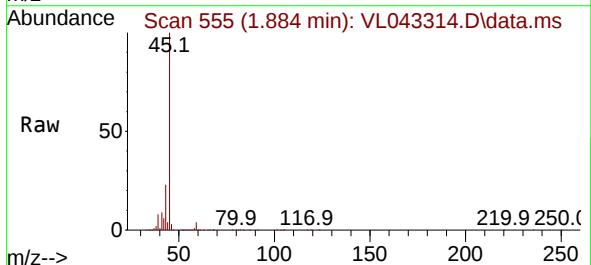
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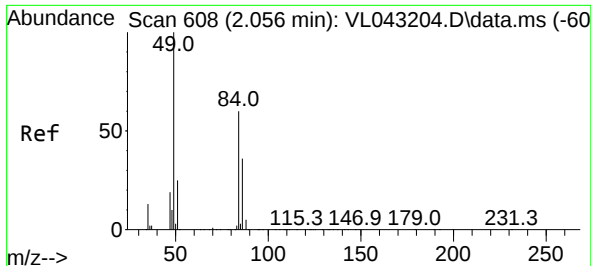
Tgt Ion: 45 Resp: 507615

Ion Ratio Lower Upper

45 100

58 0.9 31.3 46.9#





#20
Methylene Chloride
Concen: 0.396 ppbv
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

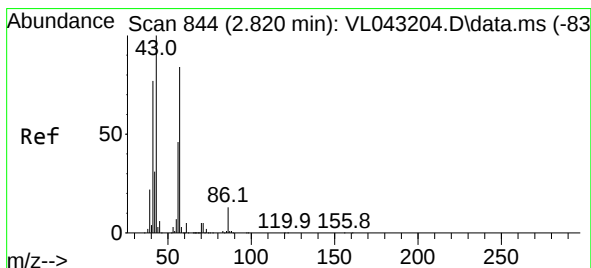
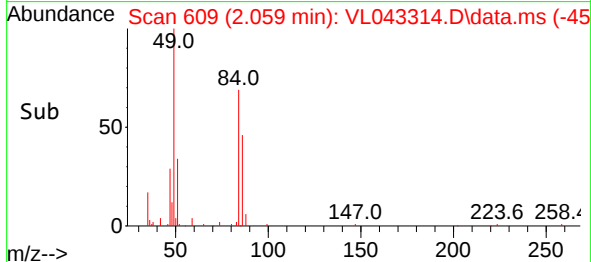
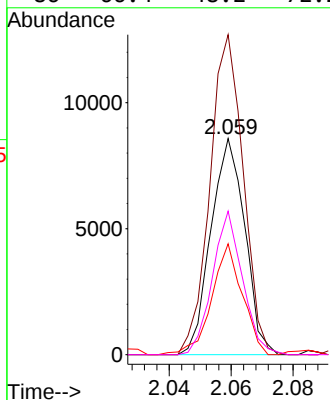
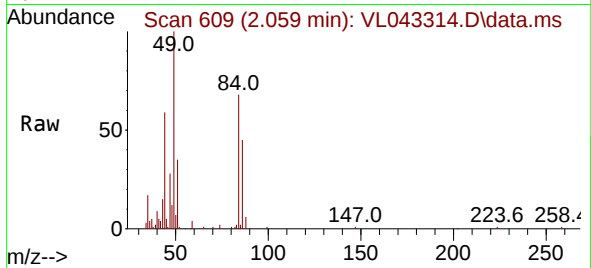
Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 84 Resp: 6519

Ion	Ratio	Lower	Upper
84	100		
49	148.0	132.9	199.3
51	51.3	34.8	52.2
86	66.4	48.2	72.2

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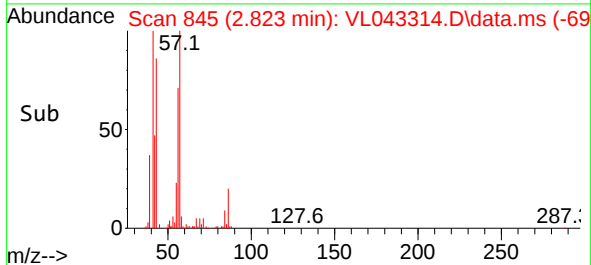
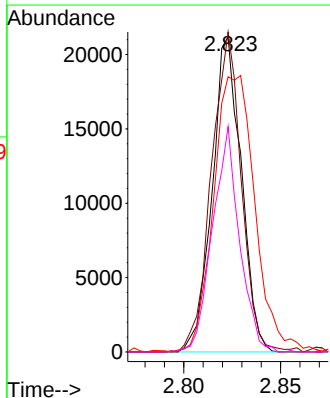
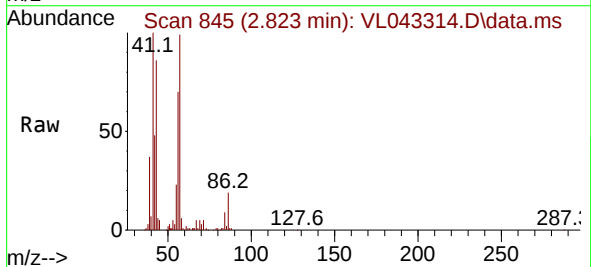
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

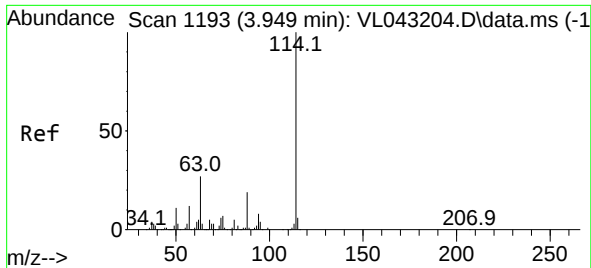


#26
Hexane
Concen: 1.216 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 57 Resp: 22119

Ion	Ratio	Lower	Upper
57	100		
41	104.5	74.6	111.8
43	125.3	179.0	268.4#
56	66.2	42.3	63.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1193

Delta R.T. -0.003 min

Lab File: VL043314.D

Acq: 08 Dec 2025 15:37

Instrument :

MSVOA_L

ClientSampleId :

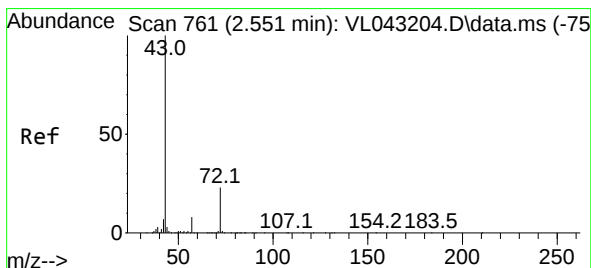
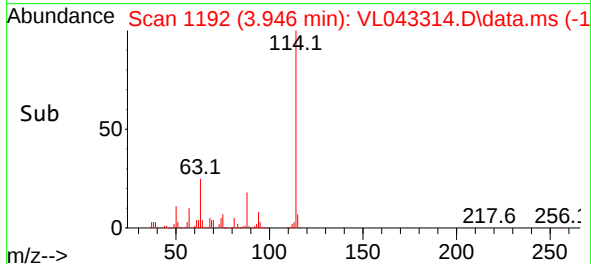
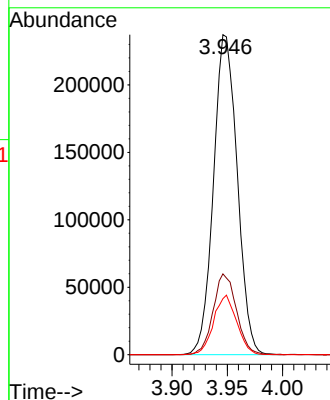
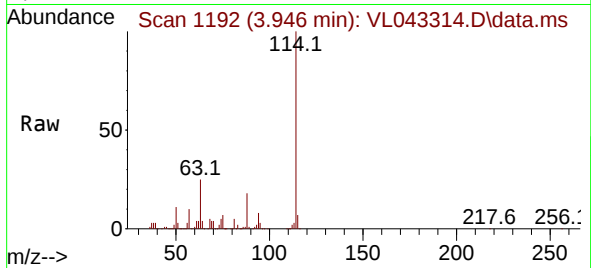
11-IA-1

Tgt Ion:114 Resp: 354324
 Ion Ratio Lower Upper
 114 100
 63 24.9 21.0 31.6
 88 18.1 14.9 22.3

Manual Integrations

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#34

2-Butanone

Concen: 0.347 ppbv

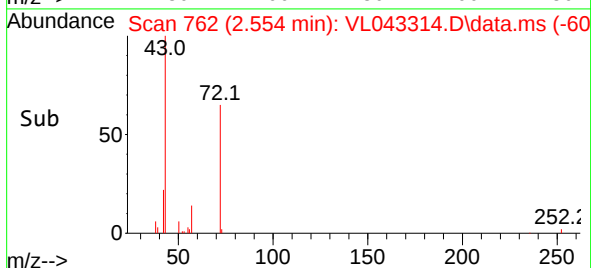
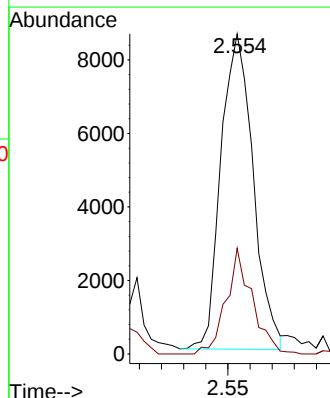
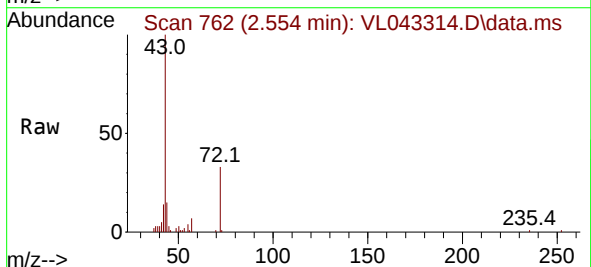
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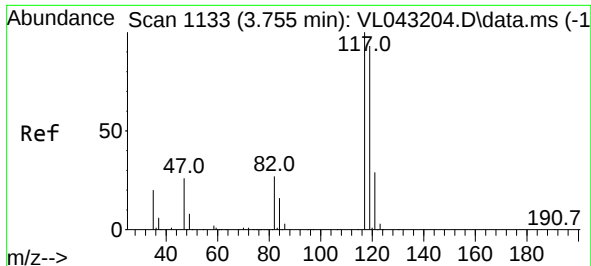
Delta R.T. 0.003 min

Lab File: VL043314.D

Acq: 08 Dec 2025 15:37

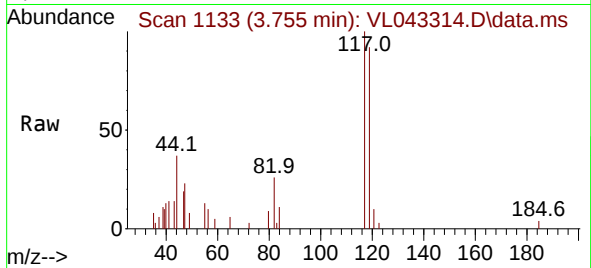
Tgt Ion: 43 Resp: 8673
 Ion Ratio Lower Upper
 43 100
 72 27.2 18.1 27.1#





#35
Carbon Tetrachloride
Concen: 0.094 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

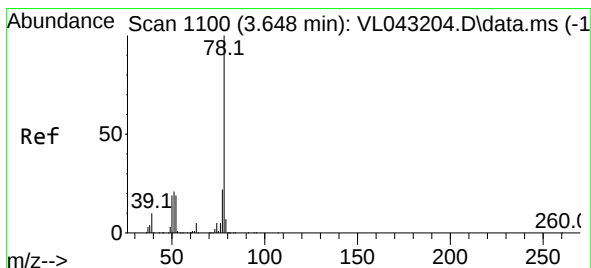
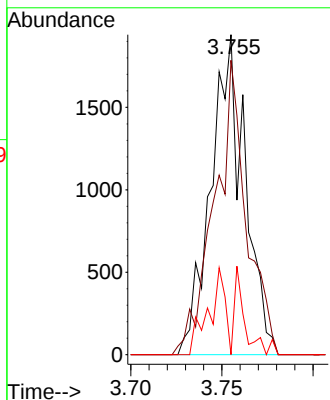
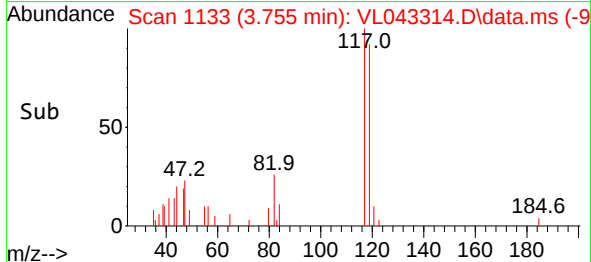
Instrument :
MSVOA_L
ClientSampleId :
11-IA-1



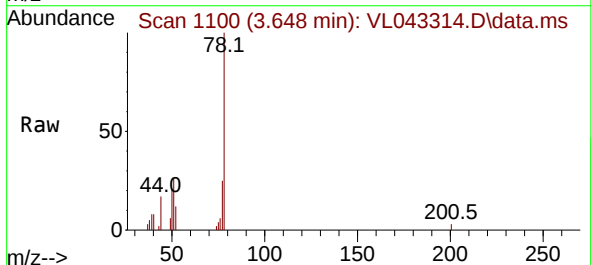
Tgt Ion: 117 Resp: 2524
Ion Ratio Lower Upper
117 100
119 92.0 74.6 112.0
121 0.0 23.2 34.8

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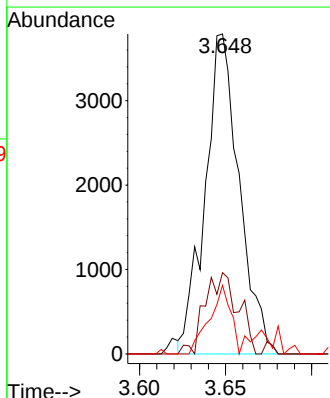
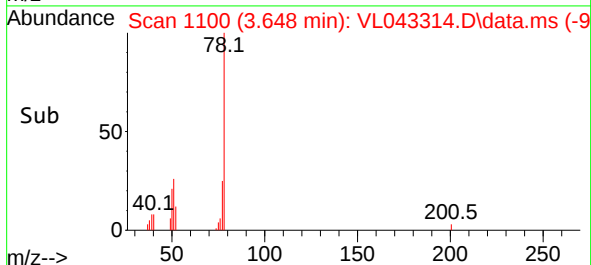
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

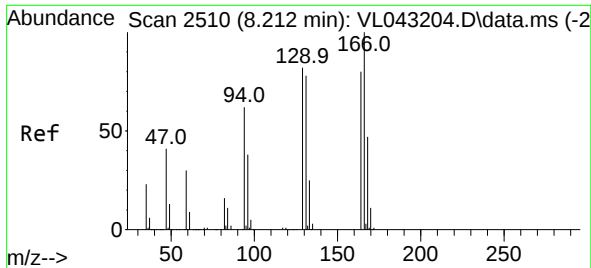


#36
Benzene
Concen: 0.154 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37



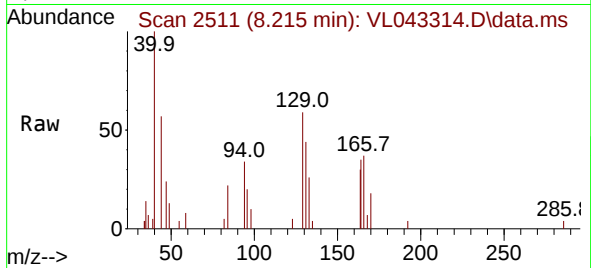
Tgt Ion: 78 Resp: 5240
Ion Ratio Lower Upper
78 100
77 25.4 17.5 26.3
50 21.4 15.5 23.3





#52
Tetrachloroethene
Concen: 0.094 ppbv m
RT: 8.215 min Scan# 2110
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

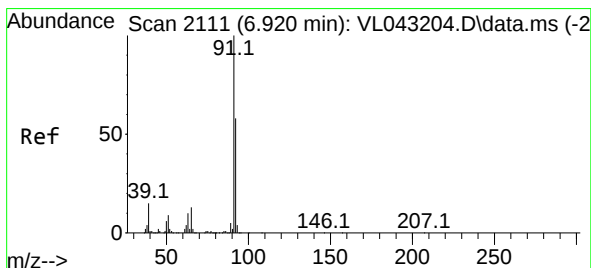
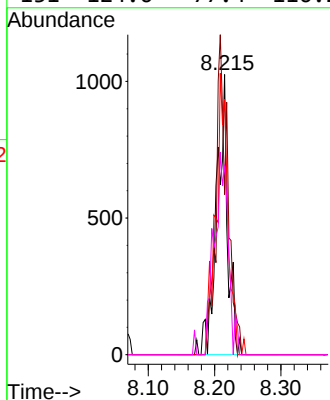
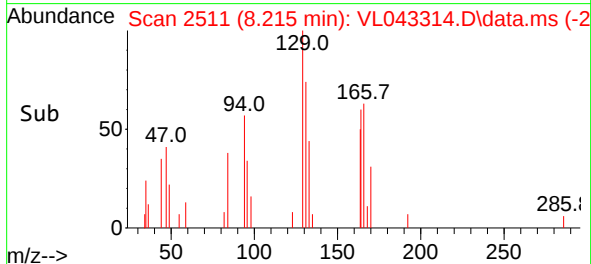
Instrument :
MSVOA_L
ClientSampleId :
11-IA-1



Tgt Ion:164 Resp: 1184
Ion Ratio Lower Upper
164 100
166 105.0 99.4 149.2
129 167.6 81.8 122.8
131 124.6 77.4 116.2

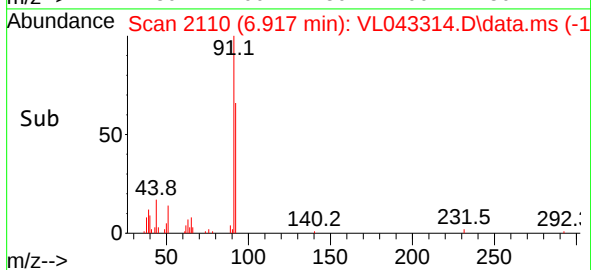
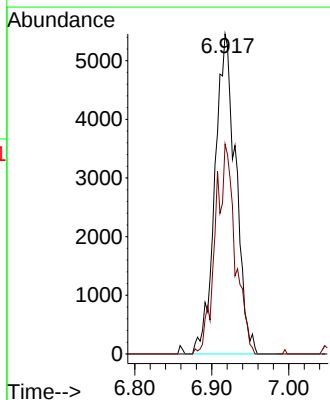
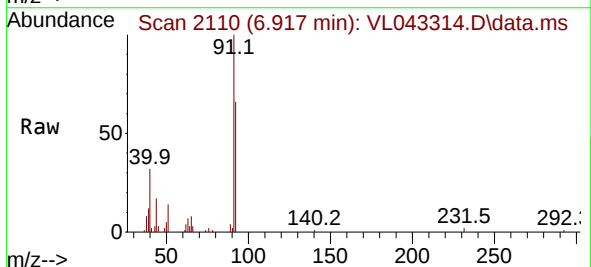
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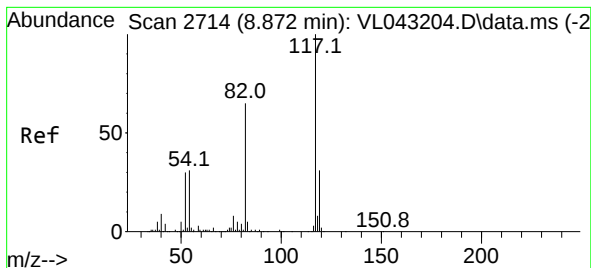
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#53
Toluene
Concen: 0.256 ppbv m
RT: 6.917 min Scan# 2110
Delta R.T. -0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 91 Resp: 10274
Ion Ratio Lower Upper
91 100
92 62.3 47.4 71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.869 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL043314.D

Acq: 08 Dec 2025 15:37

Instrument :

MSVOA_L

ClientSampleId :

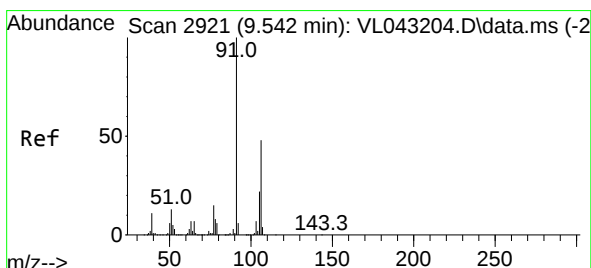
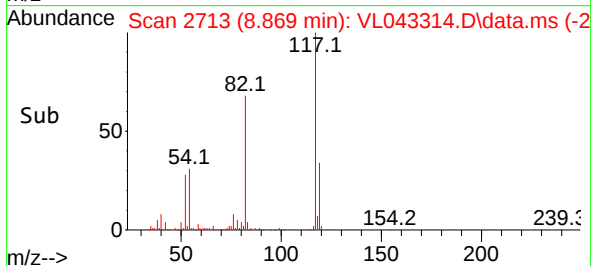
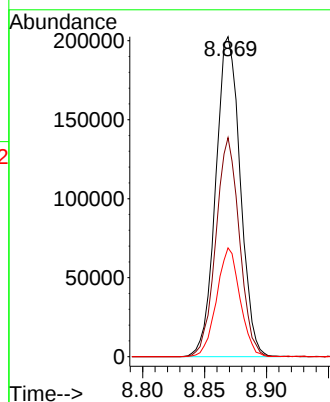
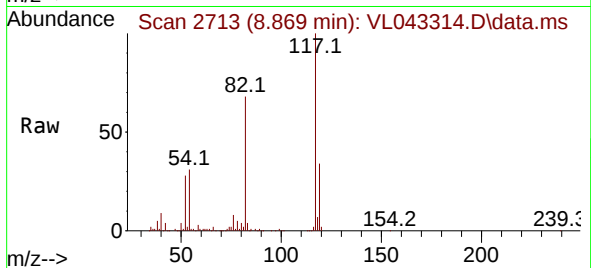
11-IA-1

Tgt Ion:117 Resp: 27950
 Ion Ratio Lower Upper
 117 100
 82 65.9 56.1 84.1
 119 32.6 25.0 37.6

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



#59

m/p-Xylene

Concen: 0.124 ppbv m

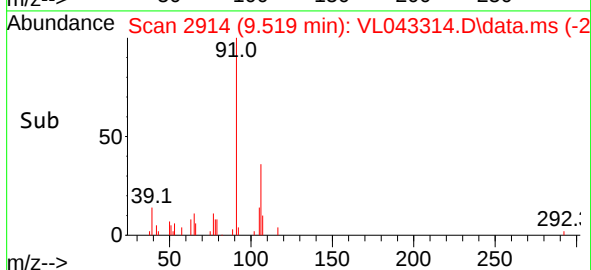
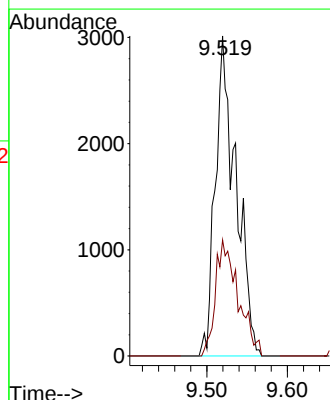
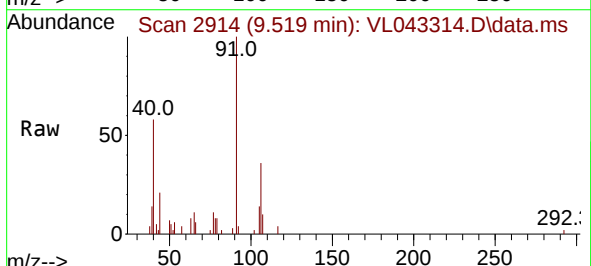
RT: 9.519 min Scan# 2914

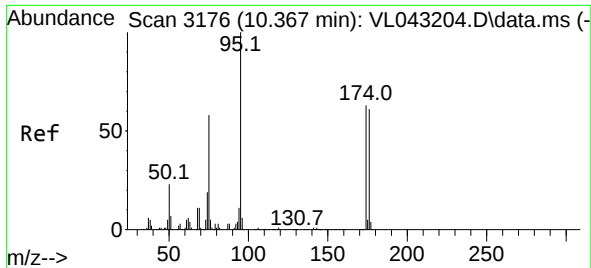
Delta R.T. -0.023 min

Lab File: VL043314.D

Acq: 08 Dec 2025 15:37

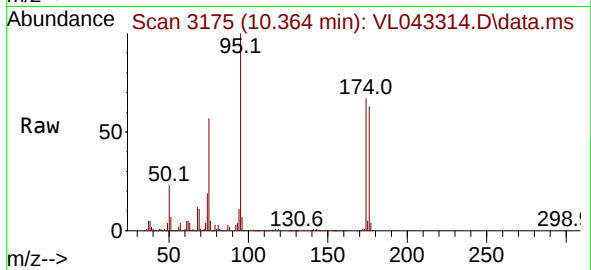
Tgt Ion: 91 Resp: 5340
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.1 54.1#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.469 ppbv
 RT: 10.364 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VL043314.D
 Acq: 08 Dec 2025 15:37

Instrument :
 MSVOA_L
 ClientSampleId :
 11-IA-1



Tgt Ion: 95 Resp: 214484
 Ion Ratio Lower Upper
 95 100
 174 68.8 50.2 75.2
 175 4.8 4.1 6.1

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

