

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042970.D
 Acq On : 22 Sep 2025 22:48
 Operator : SY/MD
 Sample : Q3130-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 131-1A-2DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:57:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	146991	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	437140	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	389571	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	296189	10.185	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.900%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	8516	0.431	ppbv	92
4) Chloromethane	1.535	50	3652	0.408	ppbv	97
9) Propene	1.489	41	5695m	0.531	ppbv	
11) Trichlorofluoromethane	1.881	101	4422	0.232	ppbv	98
13) Ethanol	1.722	45	384814	370.048	ppbv	95
15) Acetone	1.836	43	118525	6.191	ppbv	96
17) tert-Butyl alcohol	2.043	59	4248m	0.202	ppbv	
20) Methylene Chloride	2.062	84	14366	1.980	ppbv	97
26) Hexane	2.829	57	53388	2.421	ppbv #	61
34) 2-Butanone	2.561	43	11487	0.375	ppbv #	86
35) Carbon Tetrachloride	3.758	117	2114m	0.074	ppbv	
36) Benzene	3.661	78	7565	0.184	ppbv #	90
37) 1,2-Dichloroethane	3.218	62	3337	0.155	ppbv #	93
44) 2,2,4-Trimethylpentane	4.645	57	8434m	0.119	ppbv	
53) Toluene	6.937	91	18244	0.375	ppbv	100
59) m/p-Xylene	9.532	91	8506m	0.169	ppbv	
79) Naphthalene	13.513	128	7088	0.142	ppbv	97

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

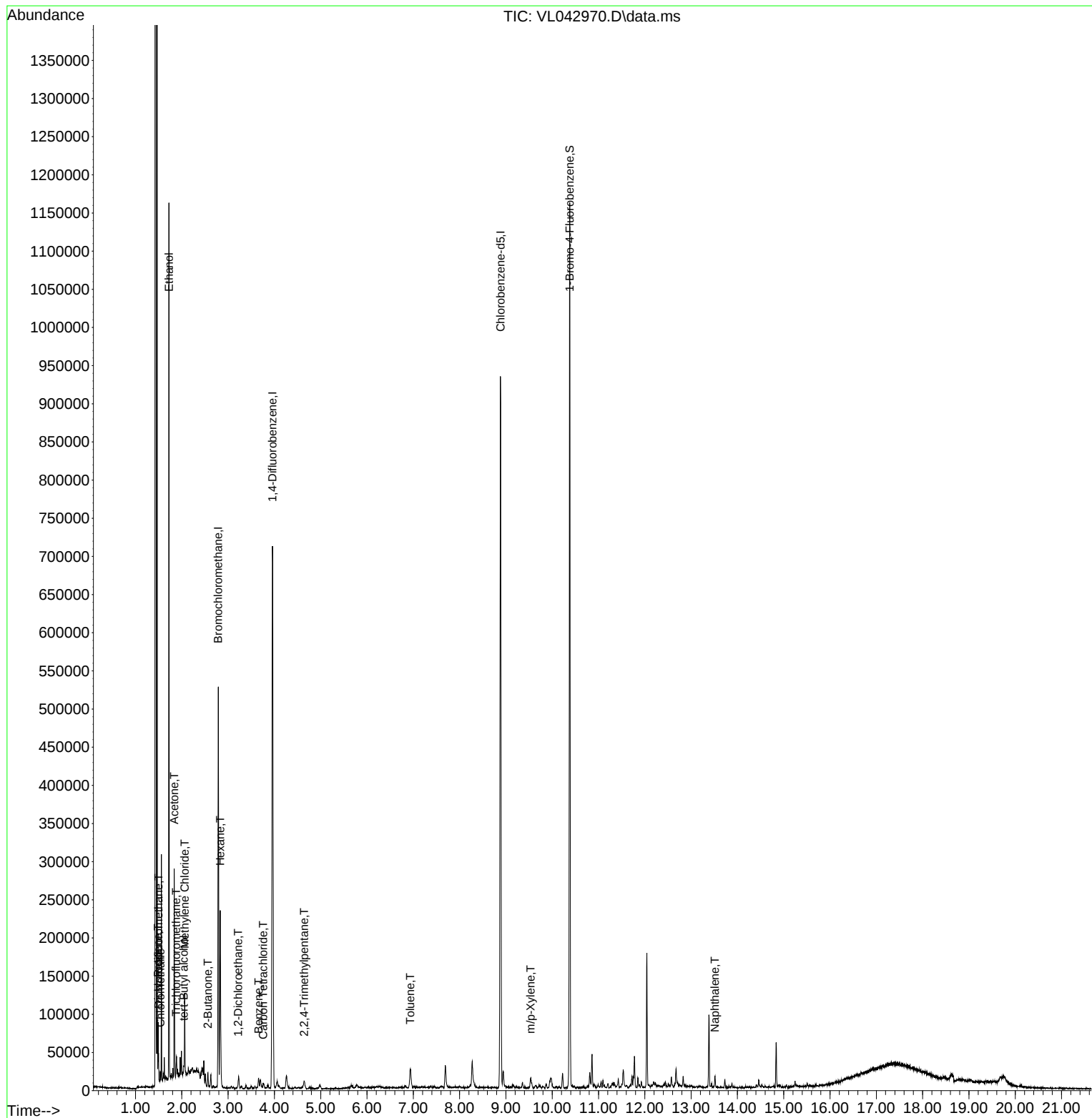
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042970.D
Acq On : 22 Sep 2025 22:48
Operator : SY/MD
Sample : Q3130-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

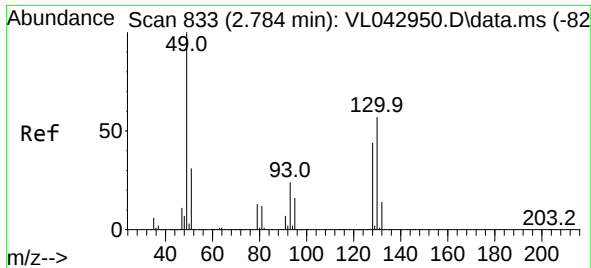
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

Quant Time: Sep 23 02:57:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Manual Integrations
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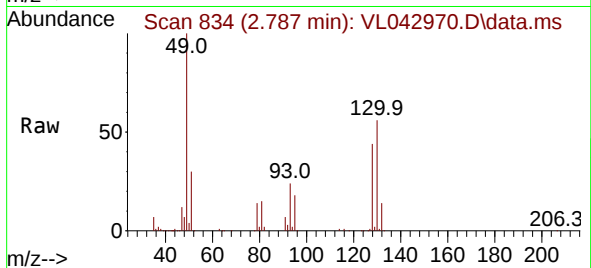
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

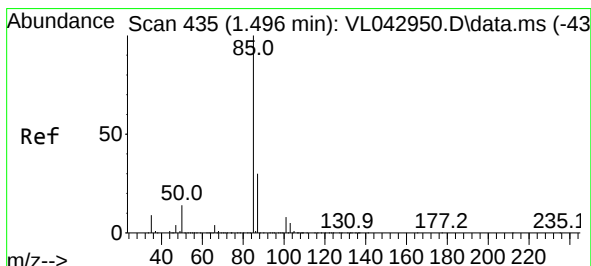
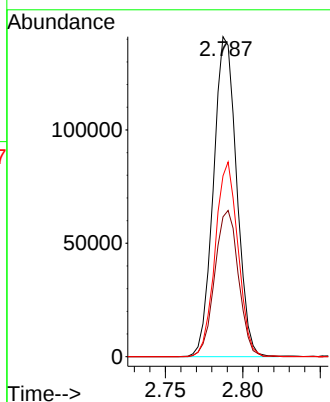
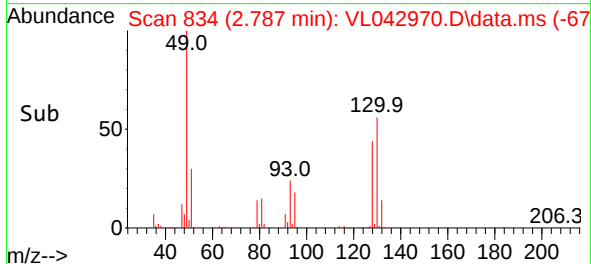
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP



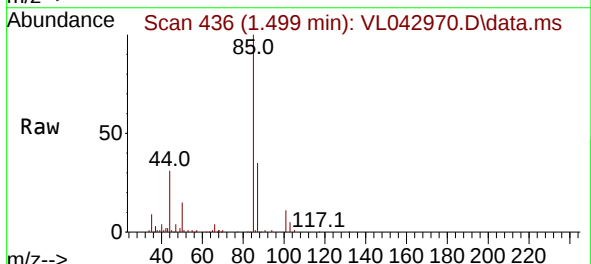
Tgt Ion: 49 Resp: 14699
Ion Ratio Lower Upper
49 100
128 46.9 22.9 68.8
130 59.9 29.1 87.3

Manual Integrations
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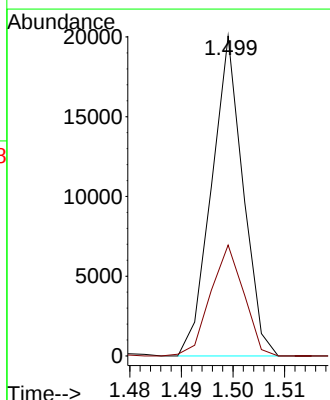
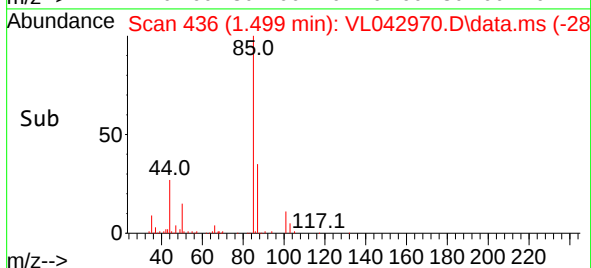
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

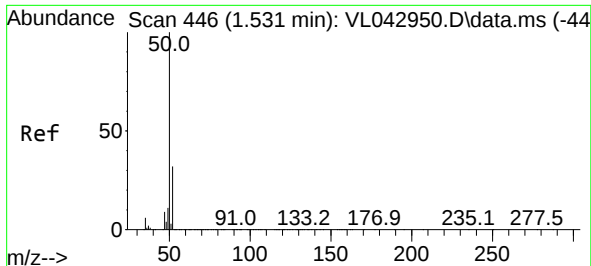


#2
Dichlorodifluoromethane
Concen: 0.431 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48



Tgt Ion: 85 Resp: 8516
Ion Ratio Lower Upper
85 100
87 34.7 24.3 36.5





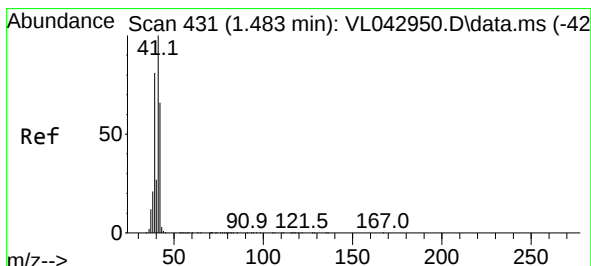
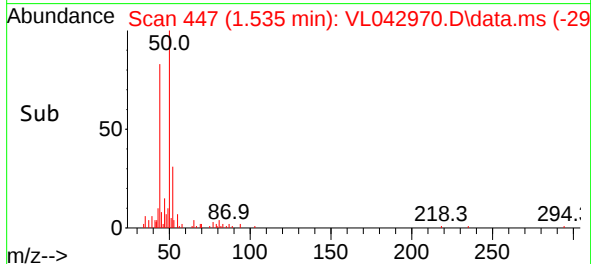
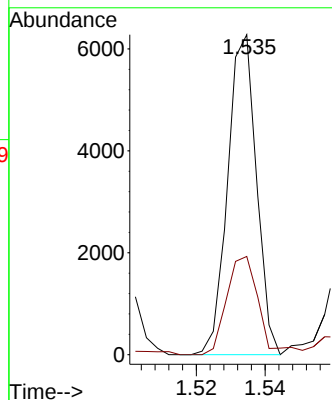
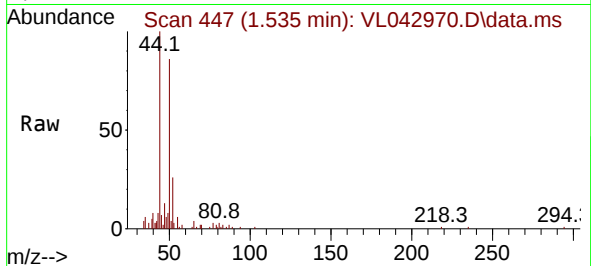
#4
Chloromethane
Concen: 0.408 ppbv
RT: 1.535 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

Tgt Ion: 50 Resp: 3652
Ion Ratio Lower Upper
50 100
52 34.3 25.9 38.9

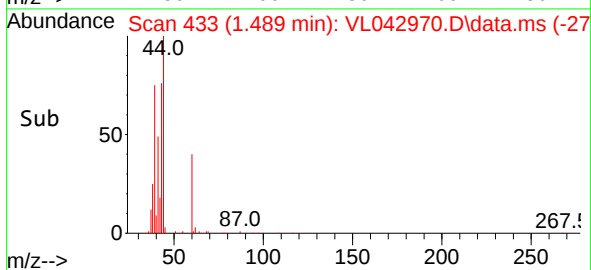
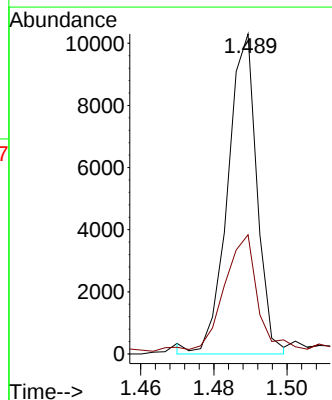
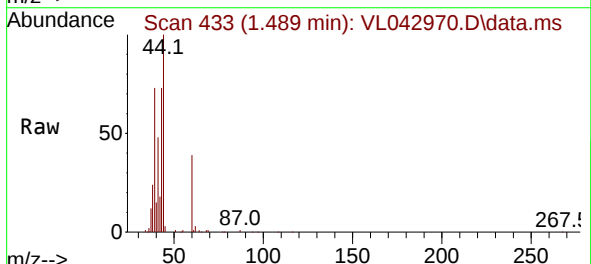
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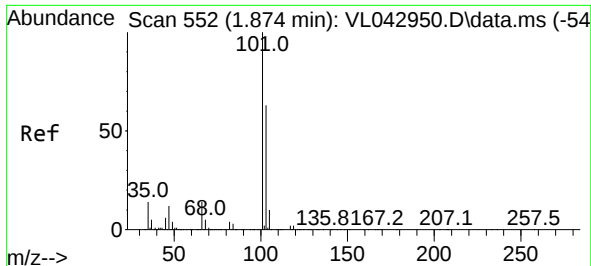
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#9
Propene
Concen: 0.531 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion: 41 Resp: 5695
Ion Ratio Lower Upper
41 100
42 358.3 57.4 86.2#





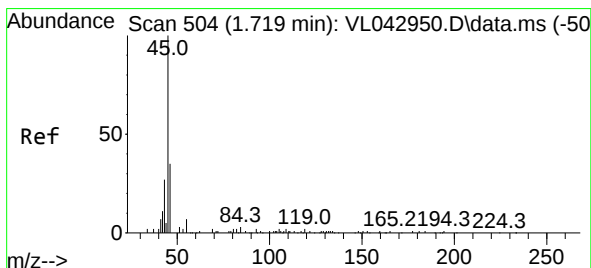
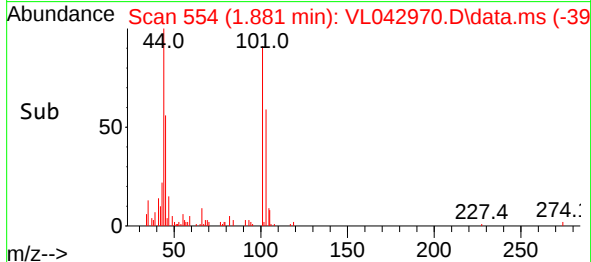
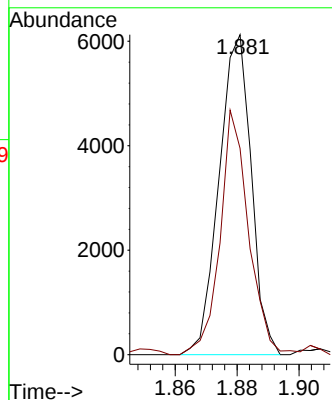
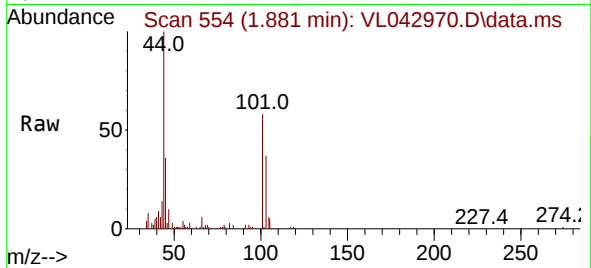
#11
Trichlorofluoromethane
Concen: 0.232 ppbv
RT: 1.881 min Scan# 505
Delta R.T. 0.007 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

Tgt Ion:101 Resp: 442
Ion Ratio Lower Upper
101 100
103 64.5 50.1 75.1

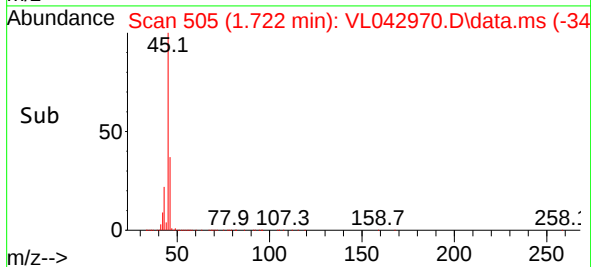
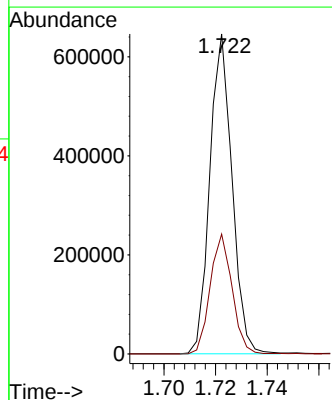
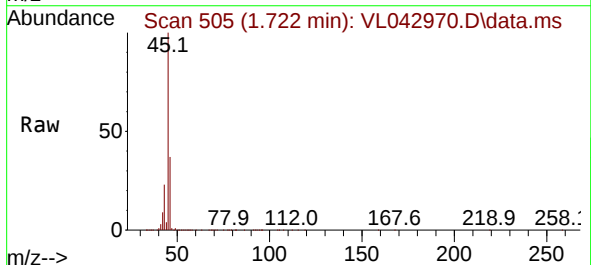
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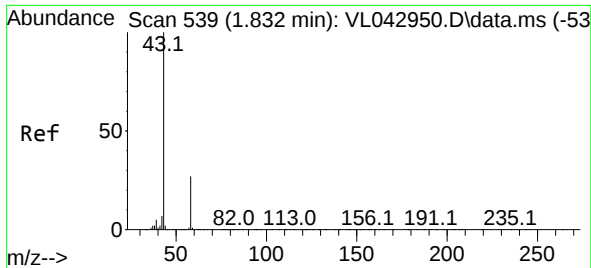
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#13
Ethanol
Concen: 370.048 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion: 45 Resp: 384814
Ion Ratio Lower Upper
45 100
46 37.3 16.2 64.6





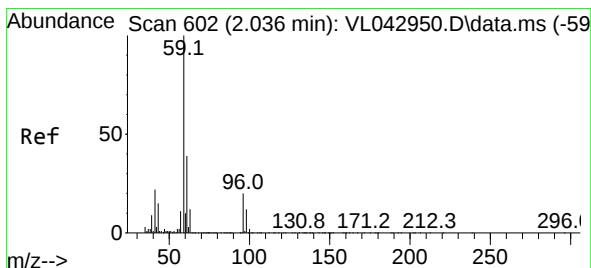
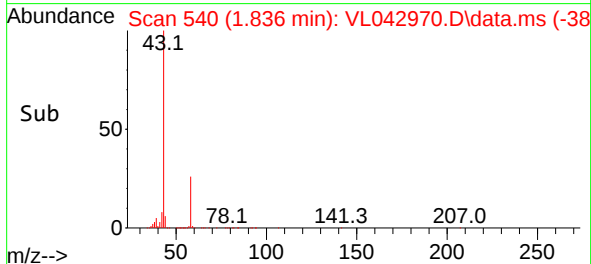
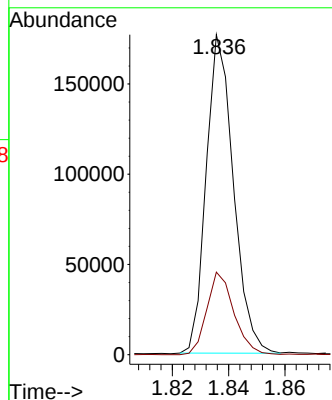
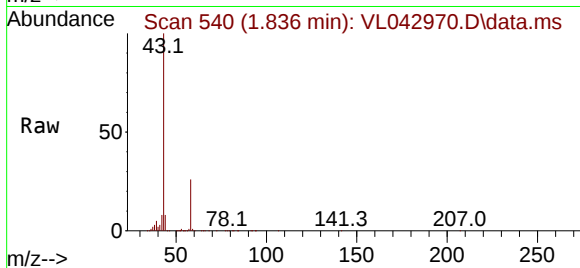
#15
Acetone
Concen: 6.191 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

Tgt Ion: 43 Resp: 11852
Ion Ratio Lower Upper
43 100
58 25.8 22.3 33.5

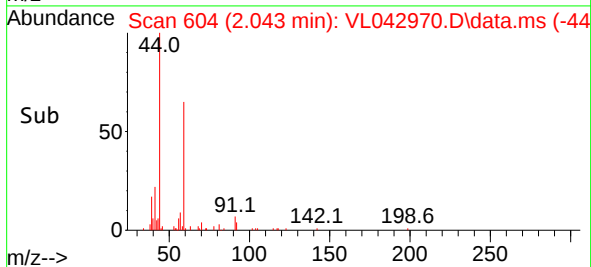
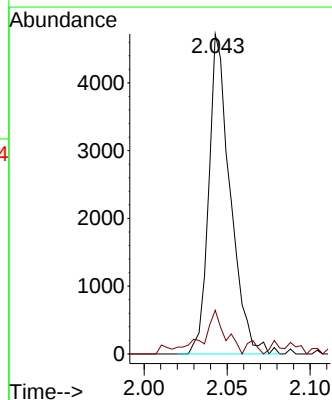
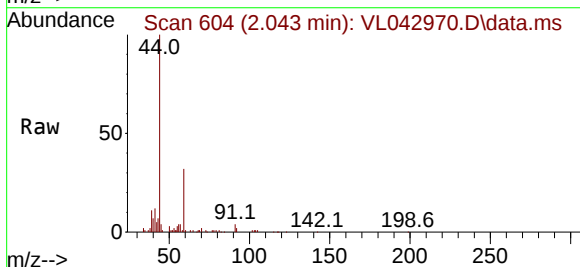
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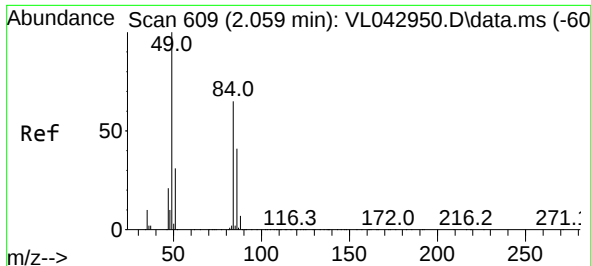
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#17
tert-Butyl alcohol
Concen: 0.202 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.007 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

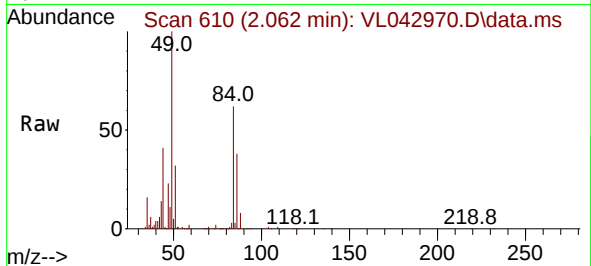
Tgt Ion: 59 Resp: 4248
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#20
Methylene Chloride
Concen: 1.980 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

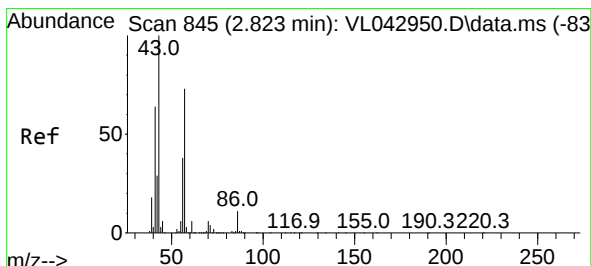
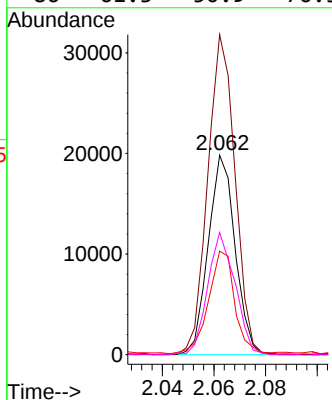
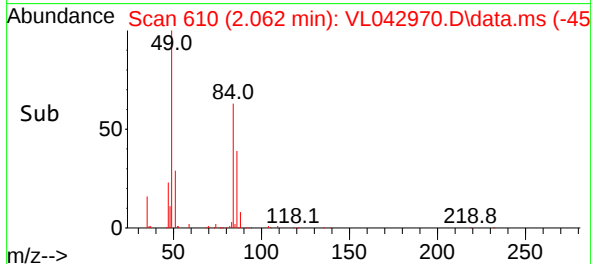
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP



Tgt Ion: 84 Resp: 14360
Ion Ratio Lower Upper
84 100
49 160.1 124.1 186.1
51 50.7 39.8 59.8
86 61.3 50.9 76.3

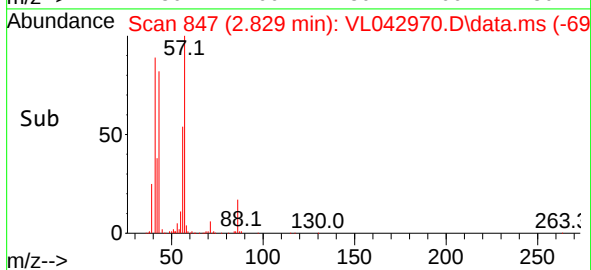
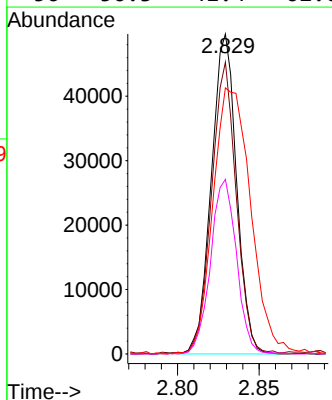
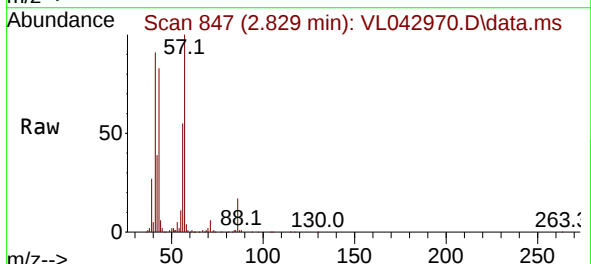
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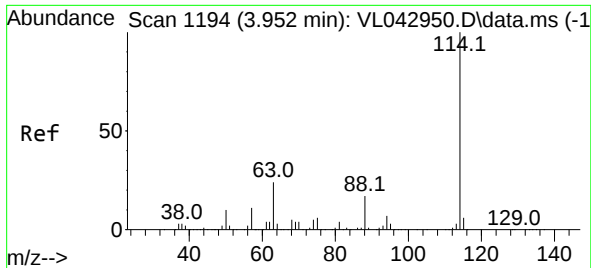
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#26
Hexane
Concen: 2.421 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.007 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion: 57 Resp: 53388
Ion Ratio Lower Upper
57 100
41 89.4 71.7 107.5
43 124.3 180.8 271.2#
56 56.3 41.4 62.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.007 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

131-1A-2DUP

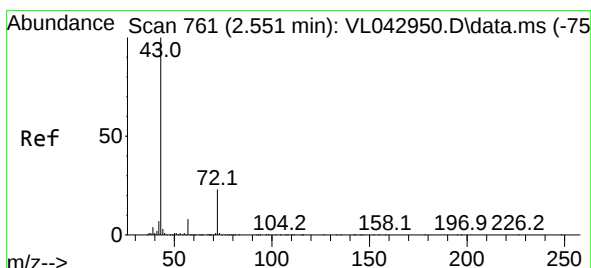
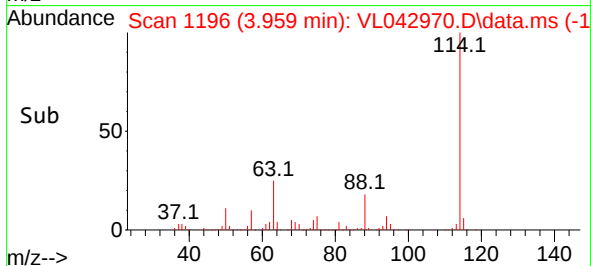
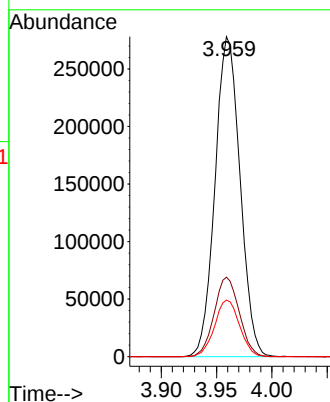
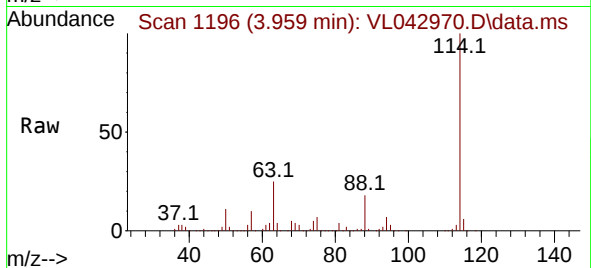
Tgt Ion:114 Resp: 437140

Ion	Ratio	Lower	Upper
114	100		
63	24.9	19.4	29.2
88	17.7	14.2	21.2

Manual Integrations

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Supervised By :Mahesh Dadoda 09/24/2025



#34

2-Butanone

Concen: 0.375 ppbv

RT: 2.561 min Scan# 764

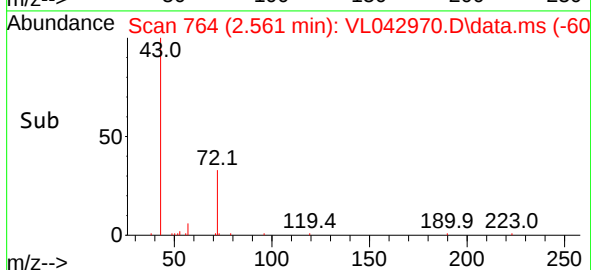
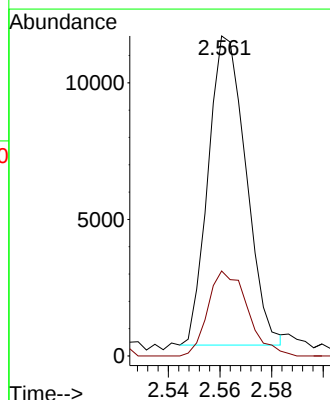
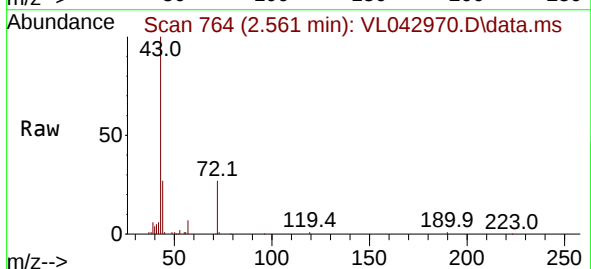
Delta R.T. 0.010 min

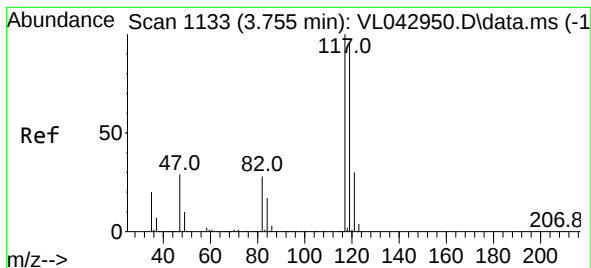
Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Tgt Ion: 43 Resp: 11487

Ion	Ratio	Lower	Upper
43	100		
72	28.9	17.7	26.5





#35

Carbon Tetrachloride

Concen: 0.074 ppbv m

RT: 3.758 min Scan# 1133

Delta R.T. 0.003 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

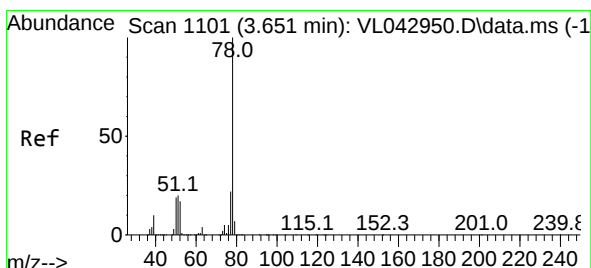
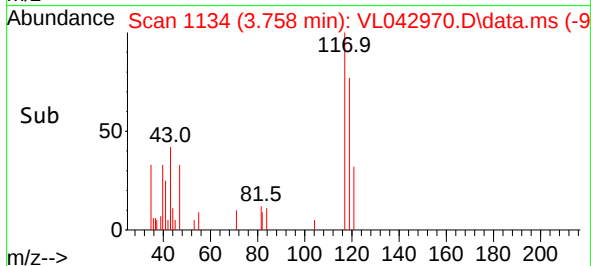
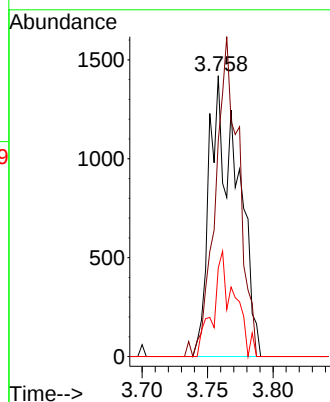
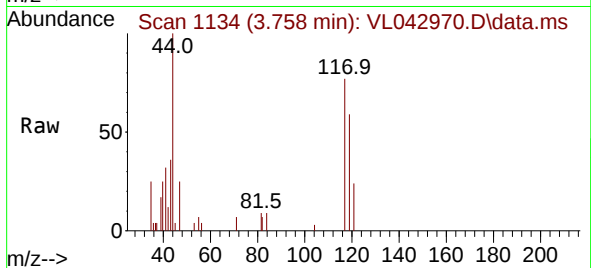
131-1A-2DUP

Tgt Ion:	117	Resp:	2114
Ion	Ratio	Lower	Upper
117	100		
119	76.9	76.9	115.3
121	31.5	23.7	35.5

Manual Integrations

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#36

Benzene

Concen: 0.184 ppbv

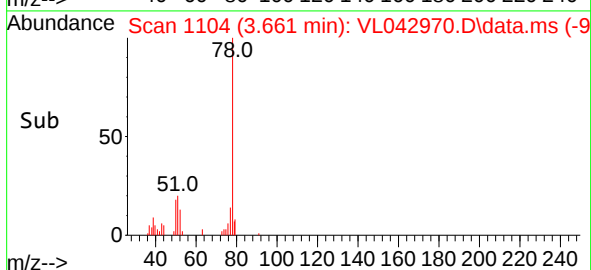
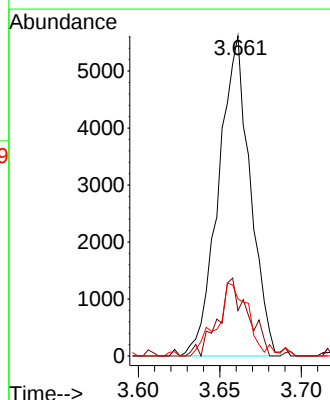
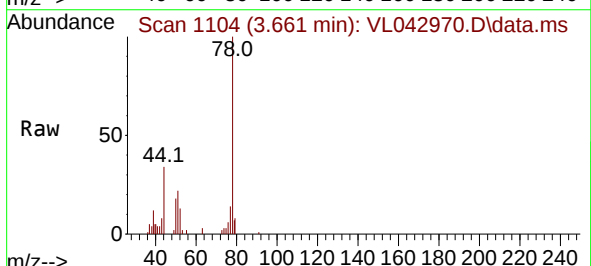
RT: 3.661 min Scan# 1104

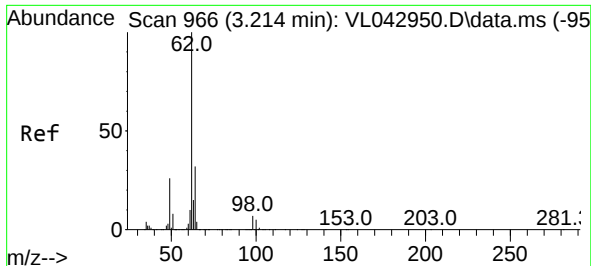
Delta R.T. 0.010 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Tgt Ion:	78	Resp:	7565
Ion	Ratio	Lower	Upper
78	100		
77	14.2	17.8	26.6
50	17.8	15.0	22.4





#37

1,2-Dichloroethane

Concen: 0.155 ppbv

RT: 3.218 min Scan# 90

Delta R.T. 0.003 min

Lab File: VL042970.D

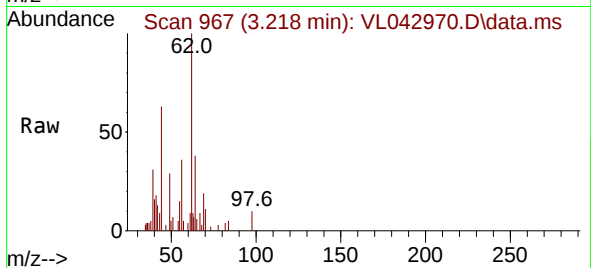
Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

131-1A-2DUP



Tgt Ion: 62 Resp: 333

Ion Ratio Lower Upper

62 100

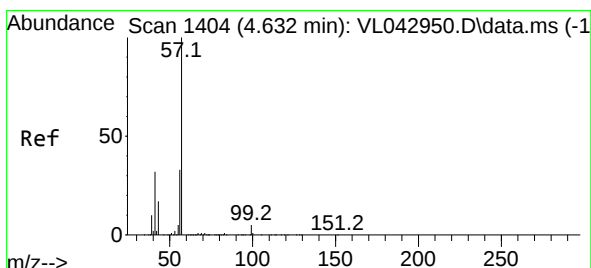
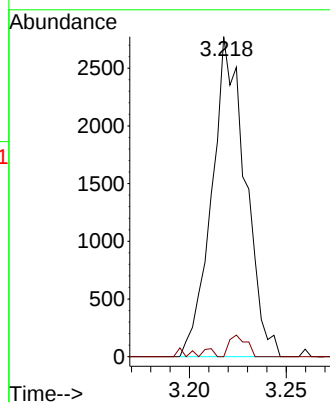
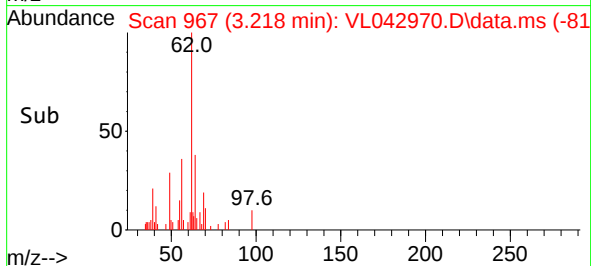
98 5.0 5.9 8.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#44

2,2,4-Trimethylpentane

Concen: 0.119 ppbv m

RT: 4.645 min Scan# 1408

Delta R.T. 0.013 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

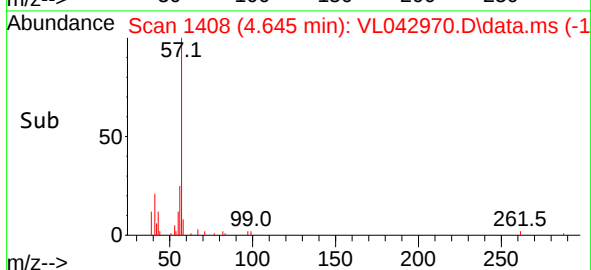
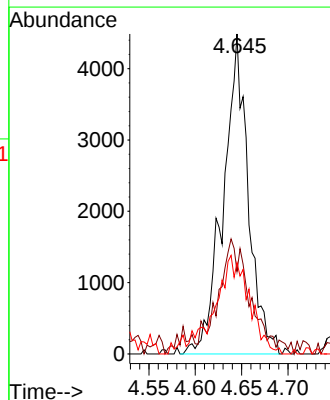
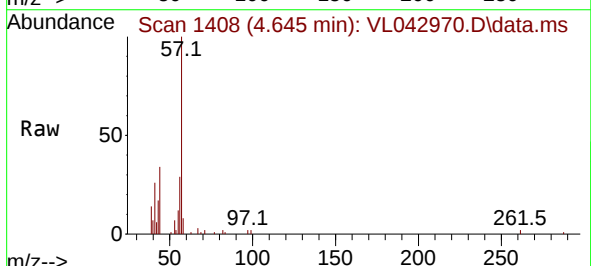
Tgt Ion: 57 Resp: 8434

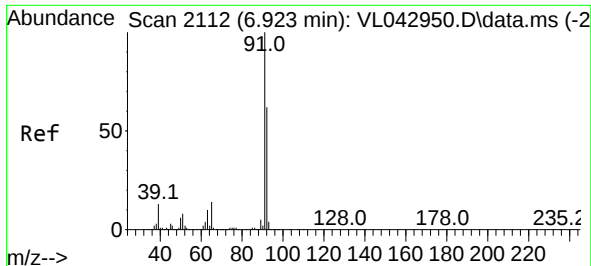
Ion Ratio Lower Upper

57 100

41 51.2 25.5 38.3#

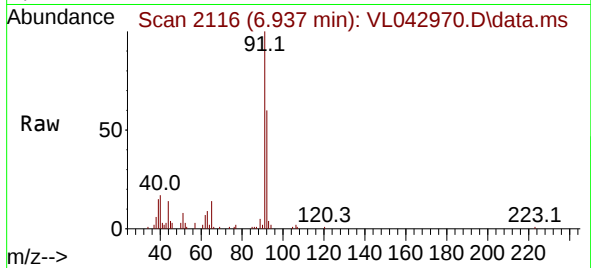
56 43.8 25.8 38.8#





#53
Toluene
Concen: 0.375 ppbv
RT: 6.937 min Scan# 2112
Delta R.T. 0.013 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

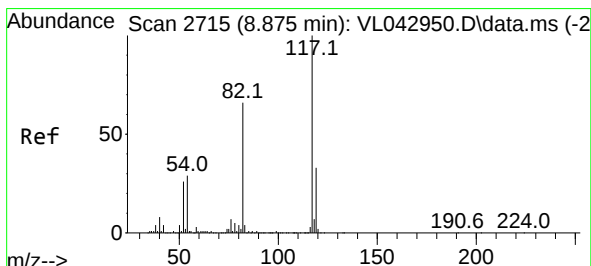
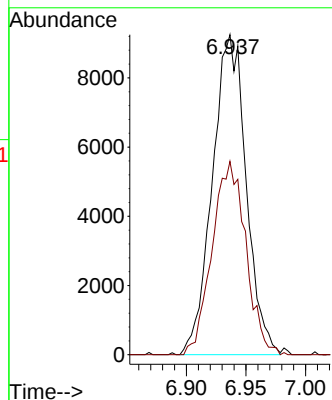
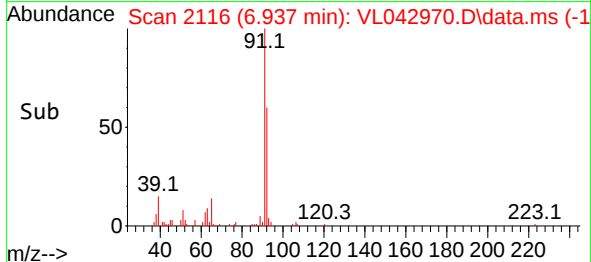
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP



Tgt Ion: 91 Resp: 1824
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.2

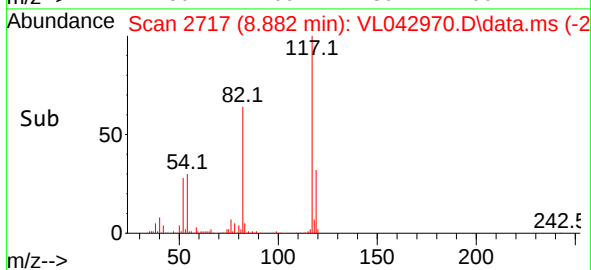
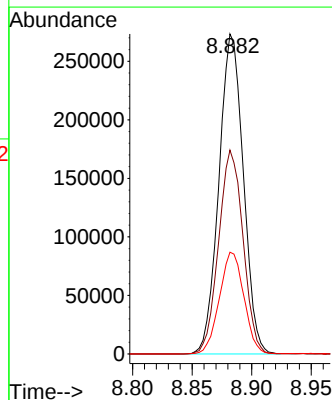
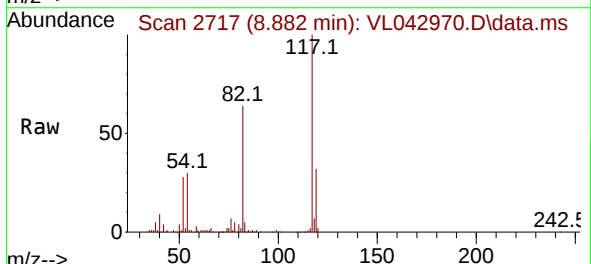
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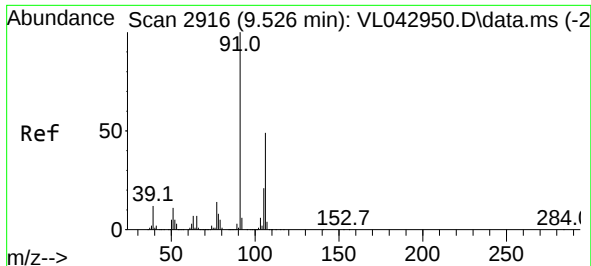
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.007 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion:117 Resp: 389571
Ion Ratio Lower Upper
117 100
82 63.8 52.8 79.2
119 32.1 26.5 39.7





#59

m/p-Xylene

Concen: 0.169 ppbv m

RT: 9.532 min Scan# 2916

Delta R.T. 0.007 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

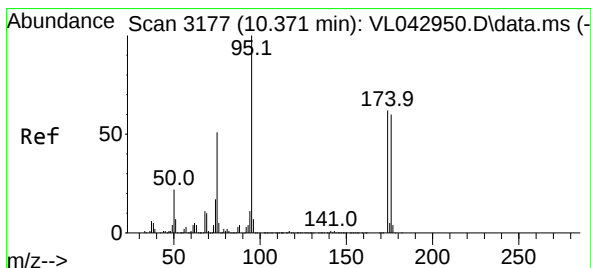
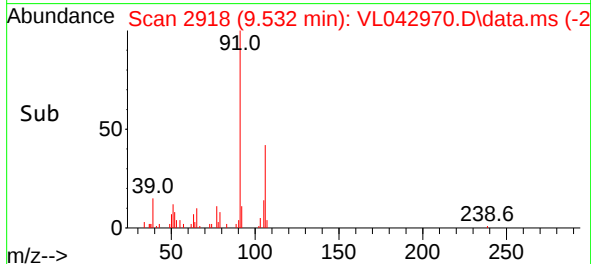
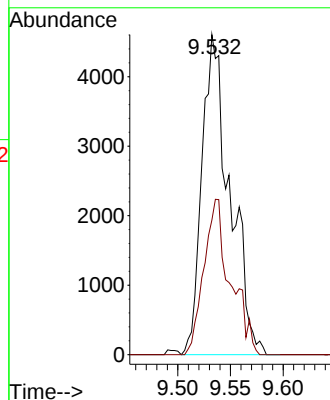
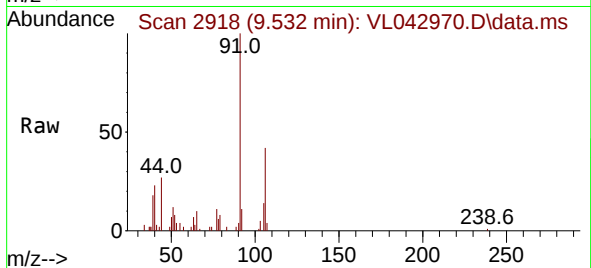
131-1A-2DUP

Tgt Ion: 91 Resp: 8500
 Ion Ratio Lower Upper
 91 100
 106 46.1 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.185 ppbv

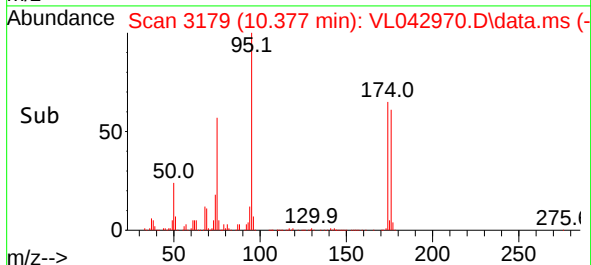
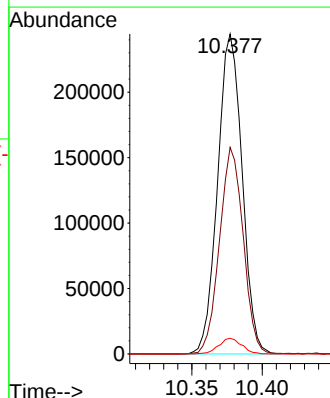
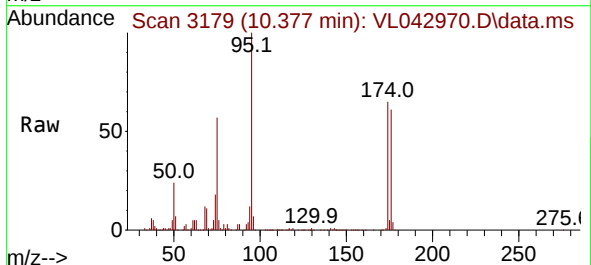
RT: 10.377 min Scan# 3179

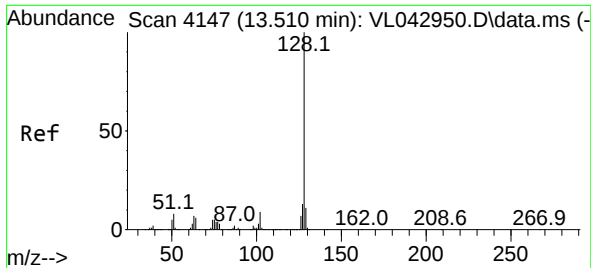
Delta R.T. 0.007 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Tgt Ion: 95 Resp: 296189
 Ion Ratio Lower Upper
 95 100
 174 62.6 51.4 77.2
 175 4.6 4.0 6.0





#79

Naphthalene

Concen: 0.142 ppbv

RT: 13.513 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042970.D

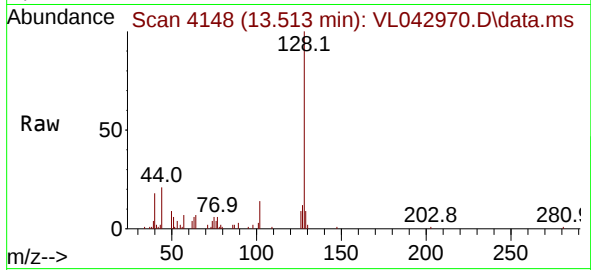
Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

131-1A-2DUP



Tgt Ion:128 Resp: 7088

Ion Ratio Lower Upper

128 100

127 12.4 10.6 15.8

129 9.4 9.0 13.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025

