

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042969.D
 Acq On : 22 Sep 2025 22:11
 Operator : SY/MD
 Sample : Q3130-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 131-1A-2

Manual Integrations
 APPROVED

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

Quant Time: Sep 23 02:56:56 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	2.790	49	149546	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	450214	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	401627	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	301579	10.059	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	9239	0.459	ppbv	91
4) Chloromethane	1.534	50	3807	0.418	ppbv	99
9) Propene	1.489	41	5229m	0.479	ppbv	
11) Trichlorofluoromethane	1.881	101	4200	0.217	ppbv	94
13) Ethanol	1.722	45	383447	362.434	ppbv	95
15) Acetone	1.839	43	121911	6.259	ppbv	99
17) tert-Butyl alcohol	2.046	59	3697	0.173	ppbv #	74
20) Methylene Chloride	2.065	84	15121	2.073	ppbv	96
26) Hexane	2.829	57	53982	2.406	ppbv #	61
34) 2-Butanone	2.563	43	12846	0.407	ppbv	98
35) Carbon Tetrachloride	3.771	117	1832m	0.063	ppbv	
36) Benzene	3.661	78	7228m	0.171	ppbv	
37) 1,2-Dichloroethane	3.221	62	2467m	0.111	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	8654m	0.119	ppbv	
52) Tetrachloroethene	8.228	164	553m	0.034	ppbv	
53) Toluene	6.939	91	18554	0.371	ppbv	98
59) m/p-Xylene	9.538	91	8680m	0.167	ppbv	
79) Naphthalene	13.516	128	7562	0.147	ppbv #	92

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

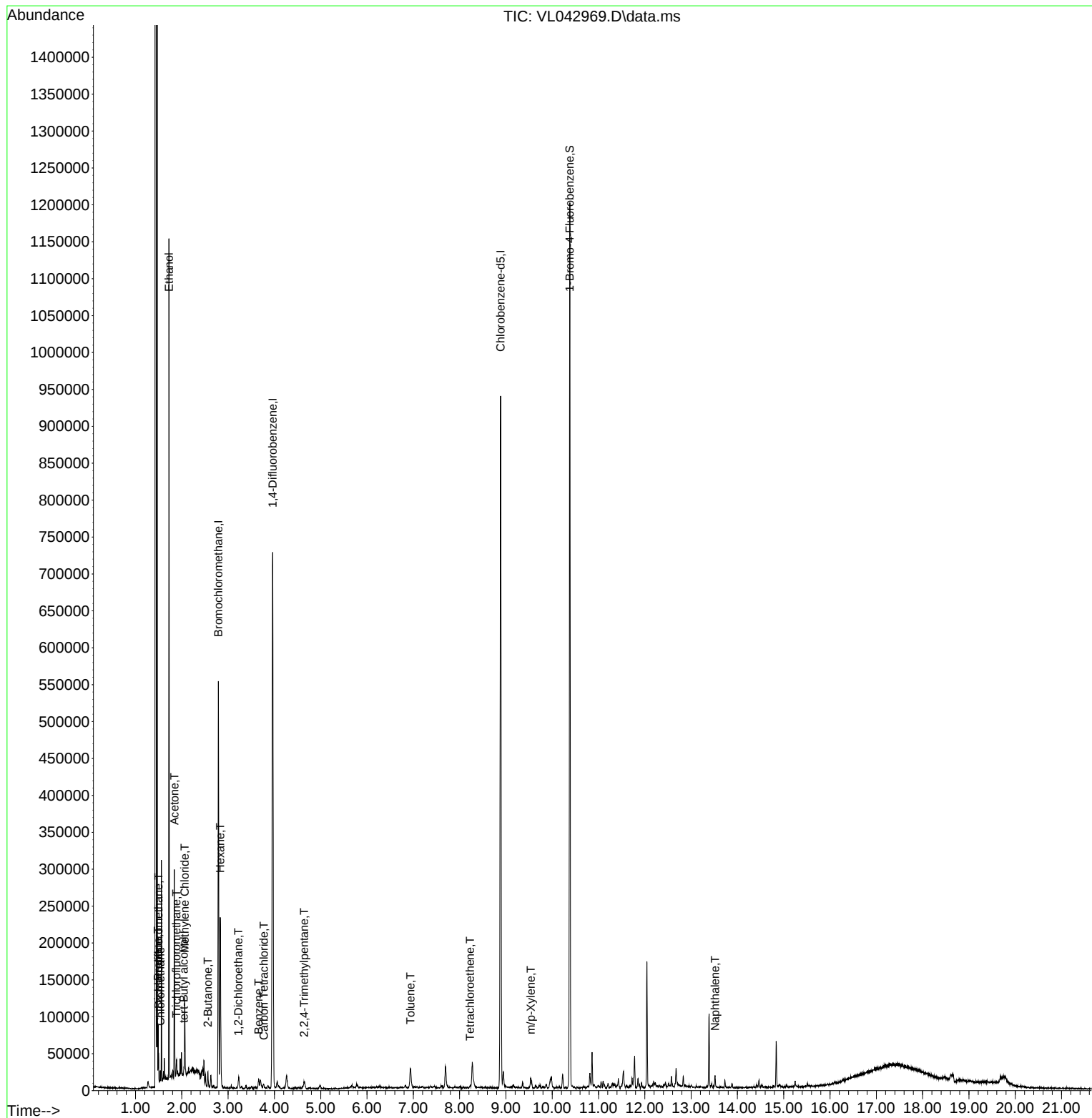
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042969.D
Acq On : 22 Sep 2025 22:11
Operator : SY/MD
Sample : Q3130-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

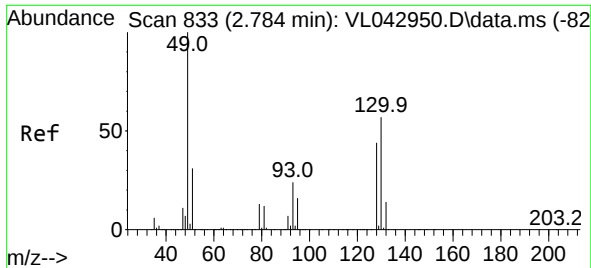
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2

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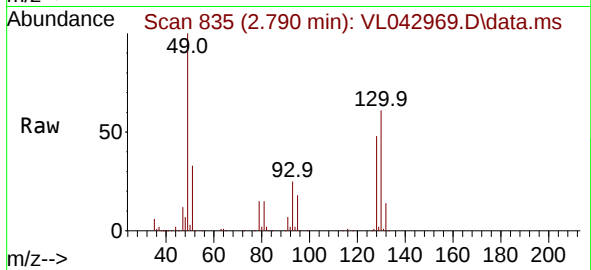
Quant Time: Sep 23 02:56:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

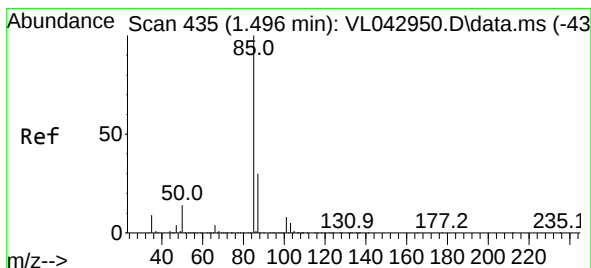
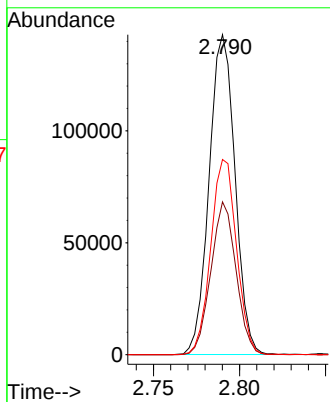
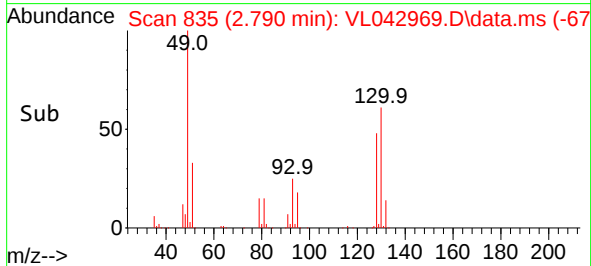
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2



Tgt Ion: 49 Resp: 149540
Ion Ratio Lower Upper
49 100
128 46.5 22.9 68.8
130 60.8 29.1 87.3

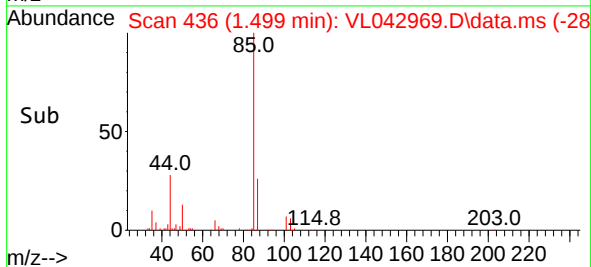
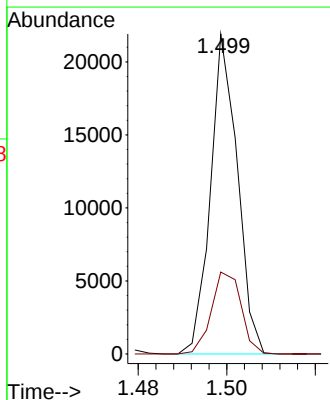
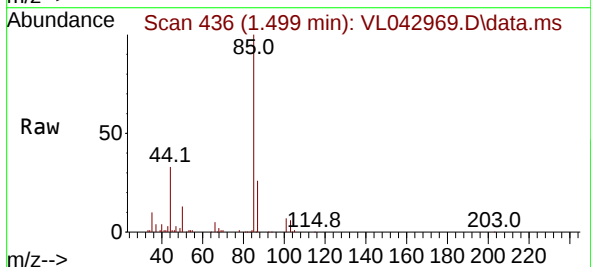
Manual Integrations
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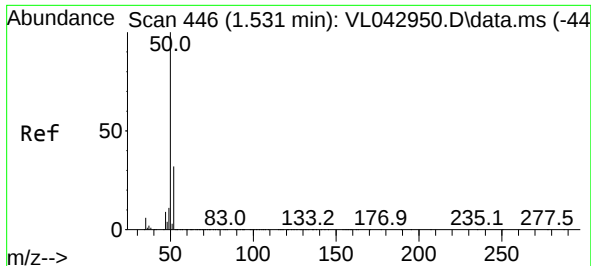
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#2
Dichlorodifluoromethane
Concen: 0.459 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

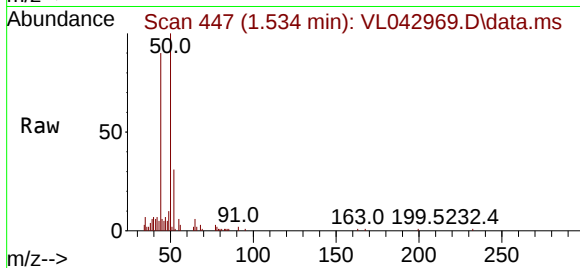
Tgt Ion: 85 Resp: 9239
Ion Ratio Lower Upper
85 100
87 25.6 24.3 36.5





#4
Chloromethane
Concen: 0.418 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

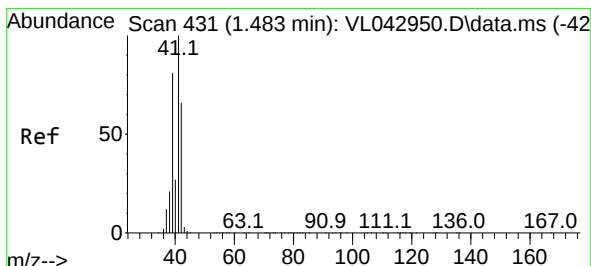
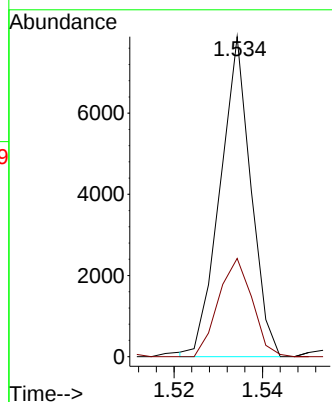
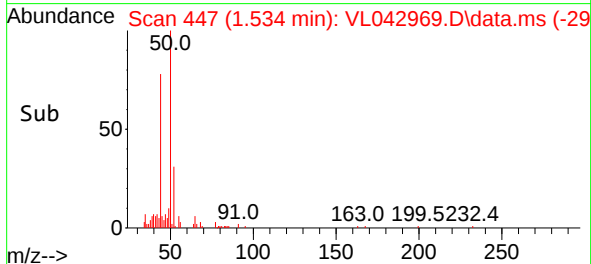
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2



Tgt Ion: 50 Resp: 380
Ion Ratio Lower Upper
50 100
52 31.6 25.9 38.9

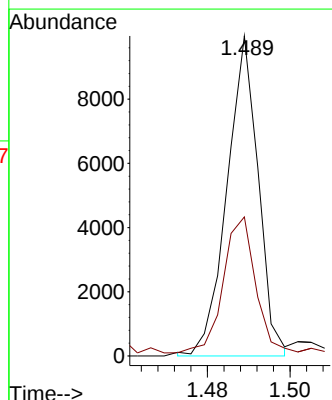
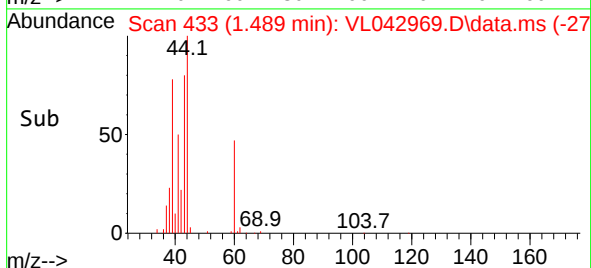
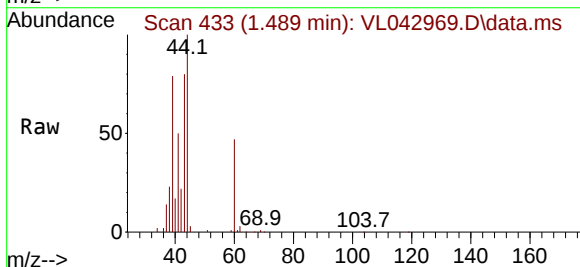
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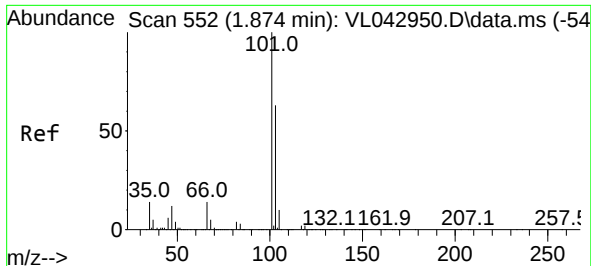
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#9
Propene
Concen: 0.479 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

Tgt Ion: 41 Resp: 5229
Ion Ratio Lower Upper
41 100
42 404.9 57.4 86.2#





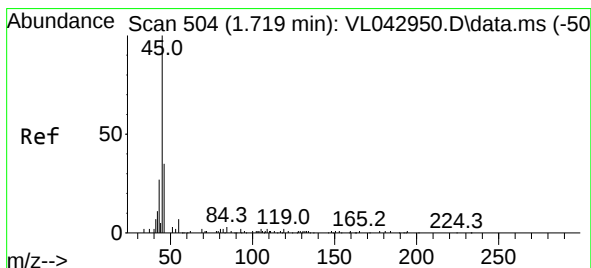
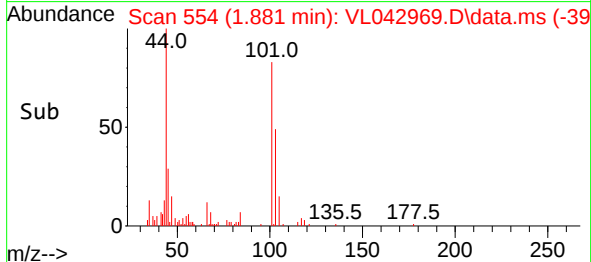
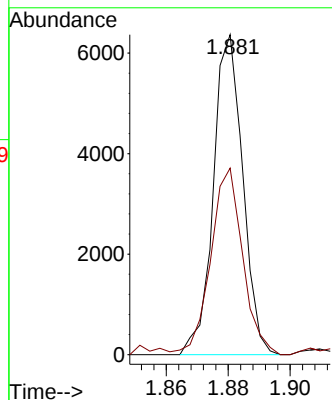
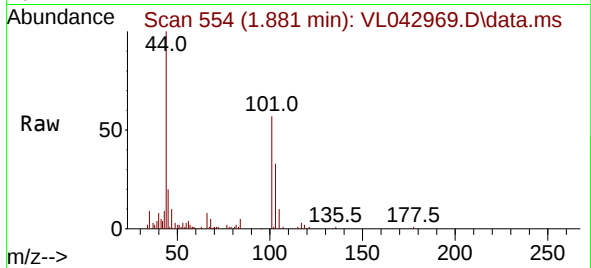
#11
Trichlorofluoromethane
Concen: 0.217 ppbv
RT: 1.881 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

Instrument :
MSVOA_L
ClientSampleId :
131-1A-2

Tgt Ion:101 Resp: 4200
Ion Ratio Lower Upper
101 100
103 58.3 50.1 75.1

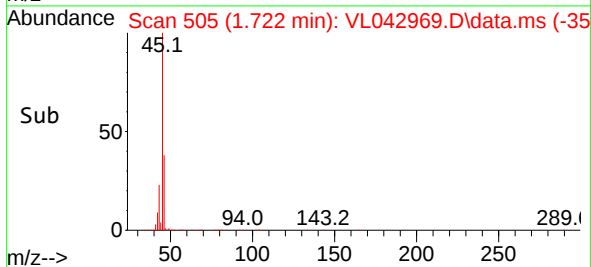
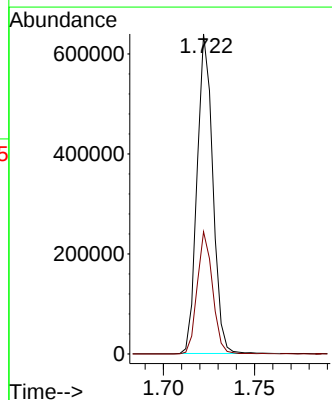
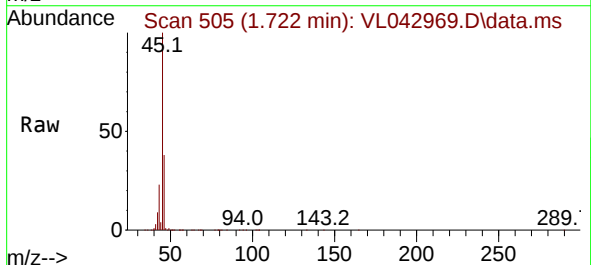
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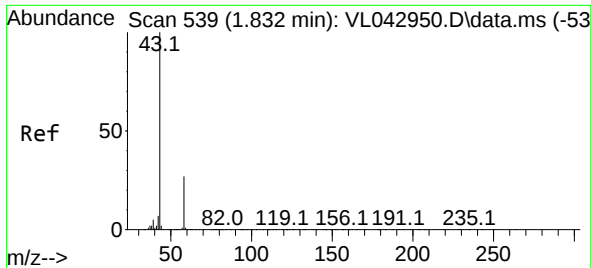
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#13
Ethanol
Concen: 362.434 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

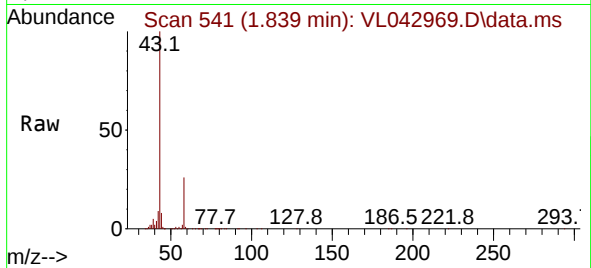
Tgt Ion: 45 Resp: 383447
Ion Ratio Lower Upper
45 100
46 37.6 16.2 64.6





#15
Acetone
Concen: 6.259 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

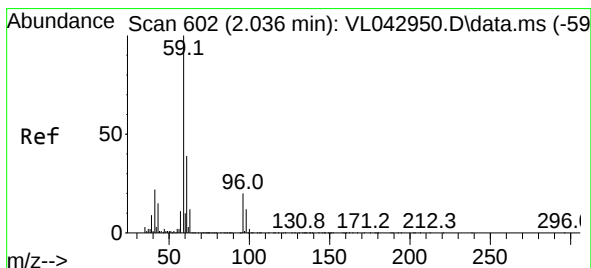
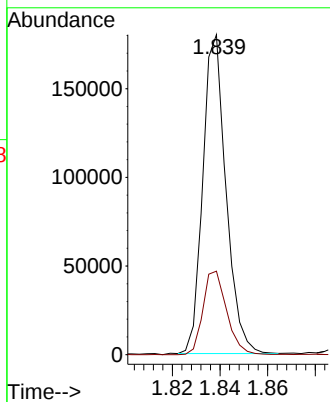
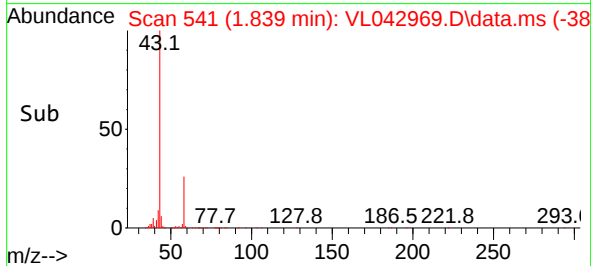
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2



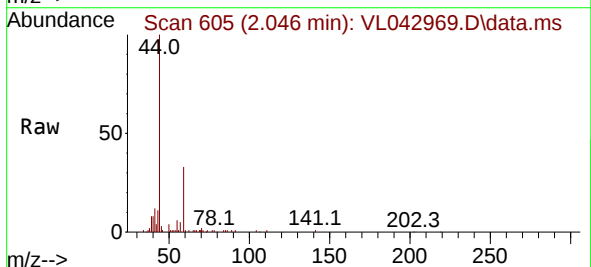
Tgt Ion: 43 Resp: 12191
Ion Ratio Lower Upper
43 100
58 27.2 22.3 33.5

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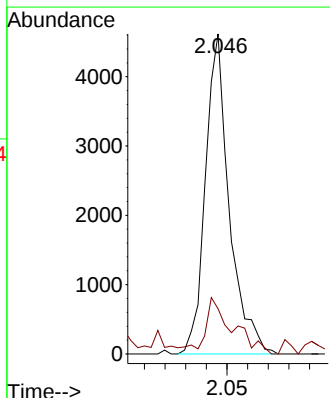
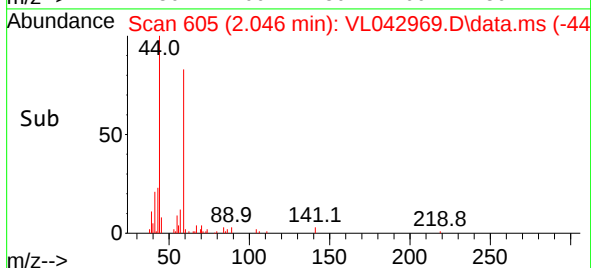
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

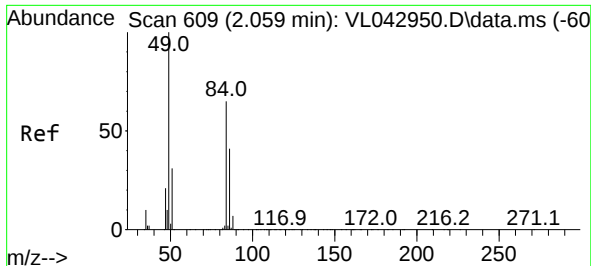


#17
tert-Butyl alcohol
Concen: 0.173 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.009 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11



Tgt Ion: 59 Resp: 3697
Ion Ratio Lower Upper
59 100
57 20.5 8.6 12.8





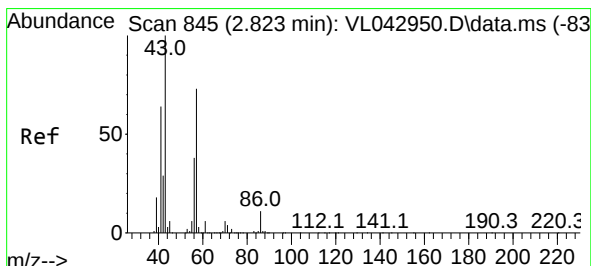
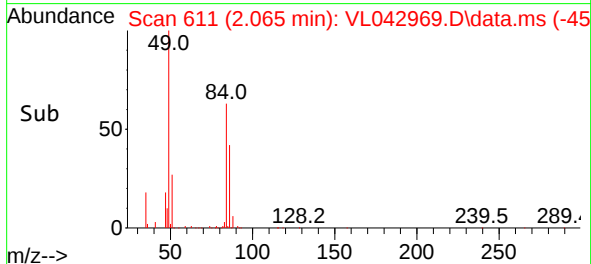
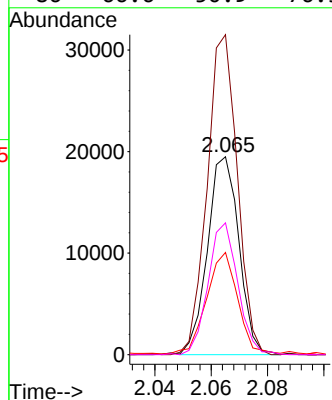
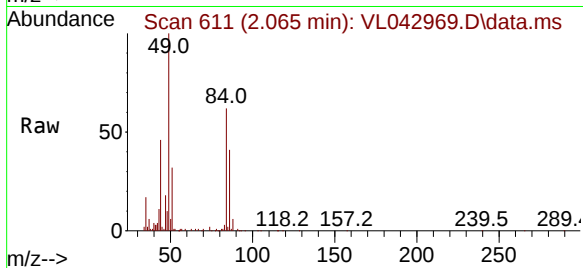
#20
Methylene Chloride
Concen: 2.073 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

Instrument :
MSVOA_L
ClientSampleId :
131-1A-2

Tgt Ion: 84	Resp: 1512
Ion Ratio	Lower Upper
84 100	
49 161.7	124.1 186.1
51 50.9	39.8 59.8
86 66.6	50.9 76.3

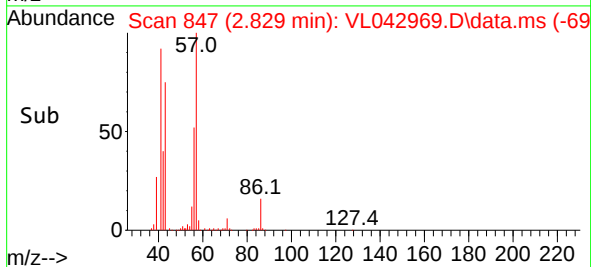
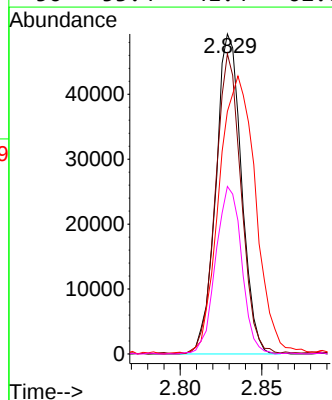
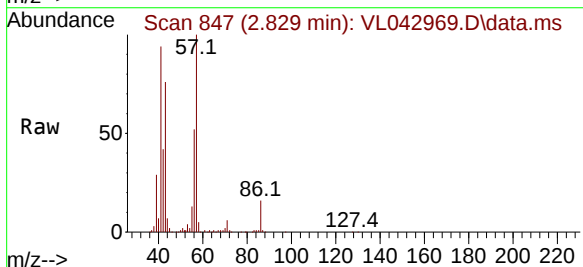
Manual Integrations
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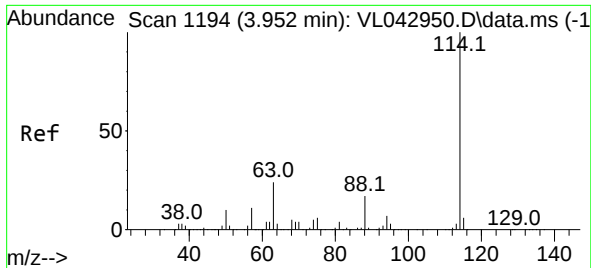
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#26
Hexane
Concen: 2.406 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

Tgt Ion: 57	Resp: 53982
Ion Ratio	Lower Upper
57 100	
41 94.0	71.7 107.5
43 125.2	180.8 271.2#
56 53.4	41.4 62.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1194

Delta R.T. 0.009 min

Lab File: VL042969.D

Acq: 22 Sep 2025 22:11

Instrument :

MSVOA_L

ClientSampleId :

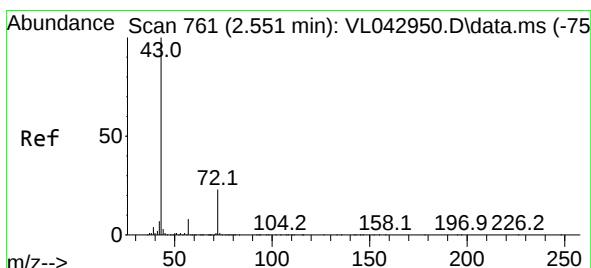
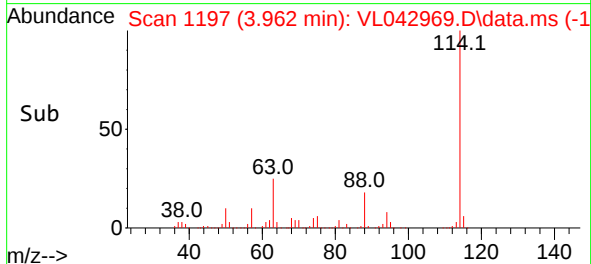
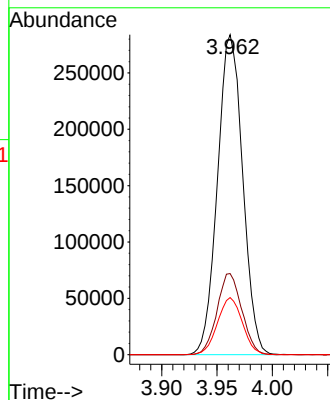
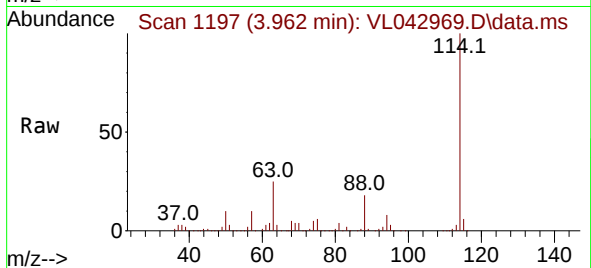
131-1A-2

Tgt Ion:114 Resp: 450214
 Ion Ratio Lower Upper
 114 100
 63 24.9 19.4 29.2
 88 17.6 14.2 21.2

Manual Integrations

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 Supervised By :Mahesh Dadoda 09/24/2025



#34

2-Butanone

Concen: 0.407 ppbv

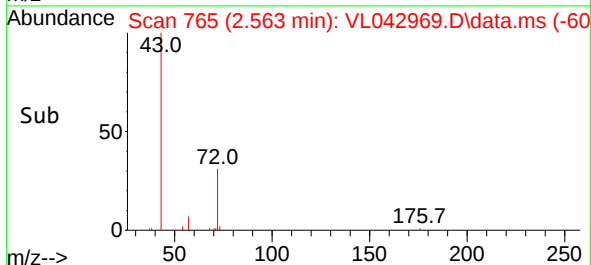
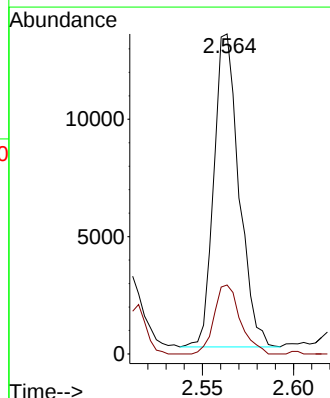
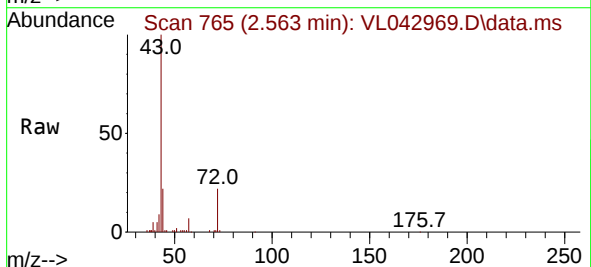
RT: 2.563 min Scan# 765

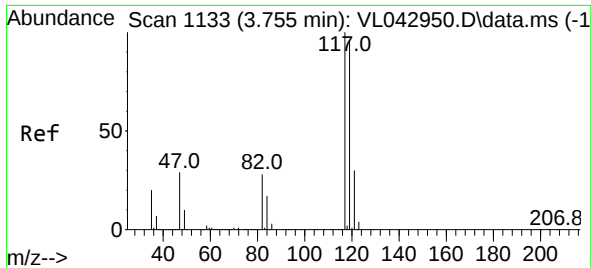
Delta R.T. 0.013 min

Lab File: VL042969.D

Acq: 22 Sep 2025 22:11

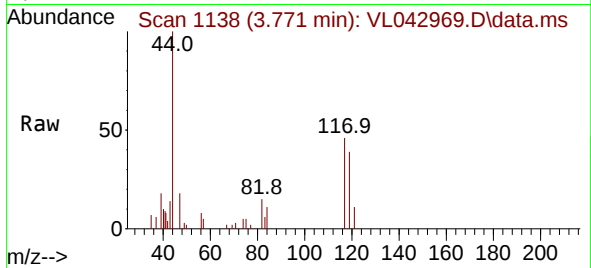
Tgt Ion: 43 Resp: 12846
 Ion Ratio Lower Upper
 43 100
 72 23.2 17.7 26.5





#35
Carbon Tetrachloride
Concen: 0.063 ppbv m
RT: 3.771 min Scan# 1133
Delta R.T. 0.016 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

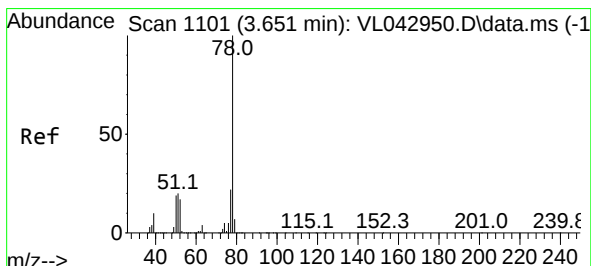
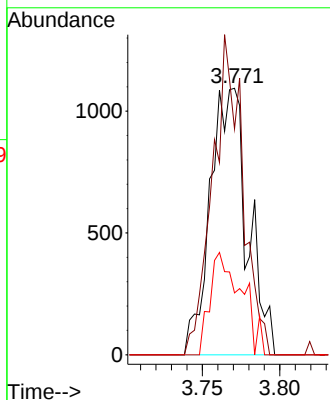
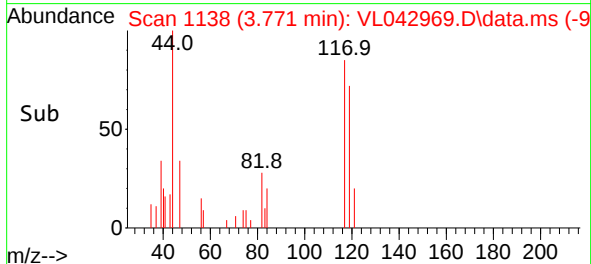
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2



Tgt Ion: 117 Resp: 1832
Ion Ratio Lower Upper
117 100
119 84.7 76.9 115.3
121 23.2 23.7 35.5

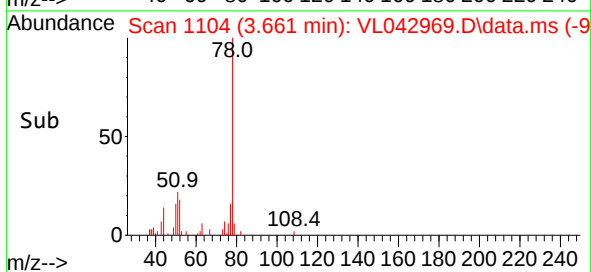
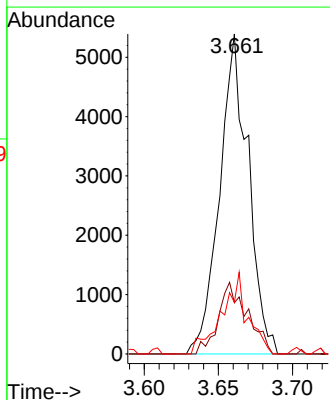
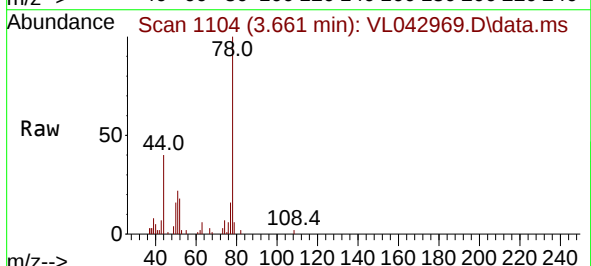
Manual Integrations
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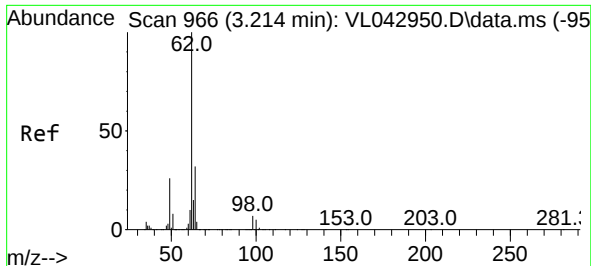
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#36
Benzene
Concen: 0.171 ppbv m
RT: 3.661 min Scan# 1104
Delta R.T. 0.009 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

Tgt Ion: 78 Resp: 7228
Ion Ratio Lower Upper
78 100
77 16.0 17.8 26.6#
50 16.2 15.0 22.4





#37

1,2-Dichloroethane

Concen: 0.111 ppbv m

RT: 3.221 min Scan# 9

Delta R.T. 0.006 min

Lab File: VL042969.D

Acq: 22 Sep 2025 22:11

Instrument :

MSVOA_L

ClientSampleId :

131-1A-2

Tgt Ion: 62 Resp: 246

Ion Ratio Lower Upper

62 100

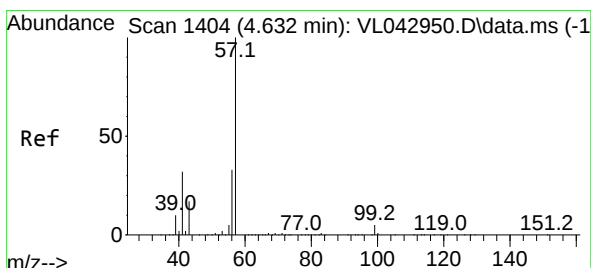
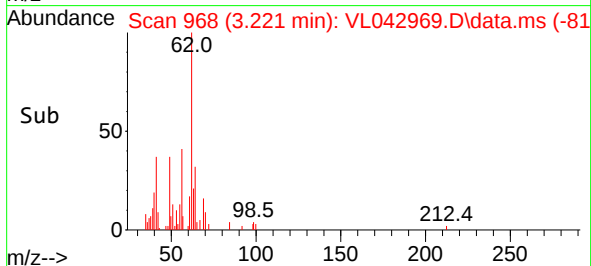
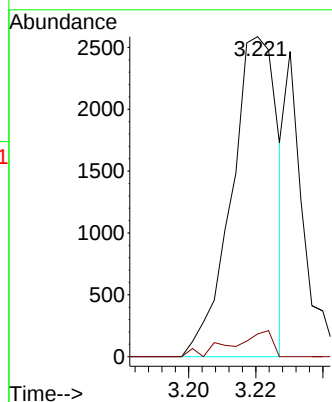
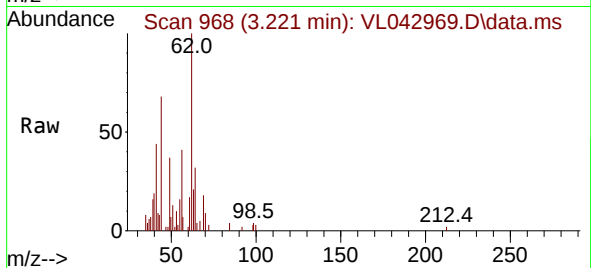
98 6.9 5.9 8.9

Manual Integrations

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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: VL042969.D

Acq: 22 Sep 2025 22:11

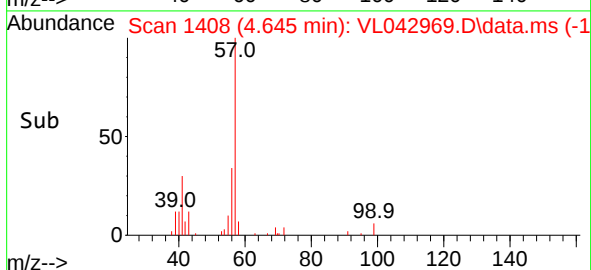
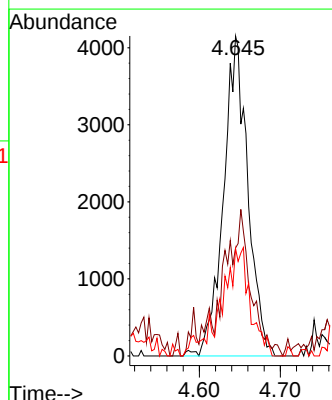
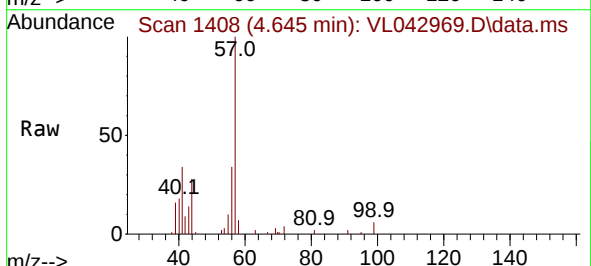
Tgt Ion: 57 Resp: 8654

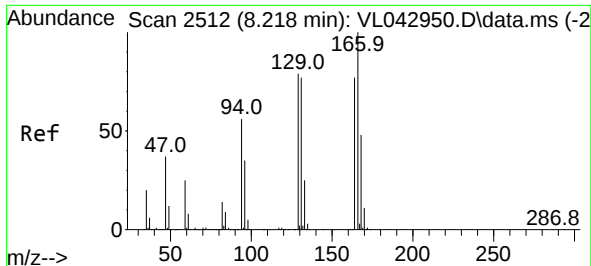
Ion Ratio Lower Upper

57 100

41 0.0 25.5 38.3#

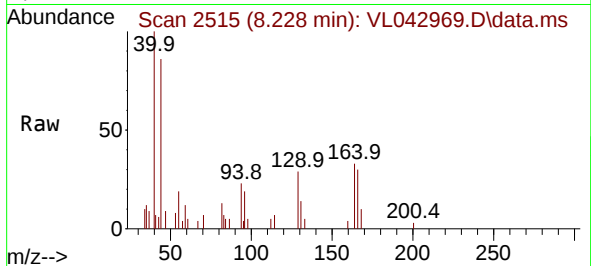
56 0.0 25.8 38.8#





#52
Tetrachloroethene
Concen: 0.034 ppbv m
RT: 8.228 min Scan# 2117
Delta R.T. 0.009 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

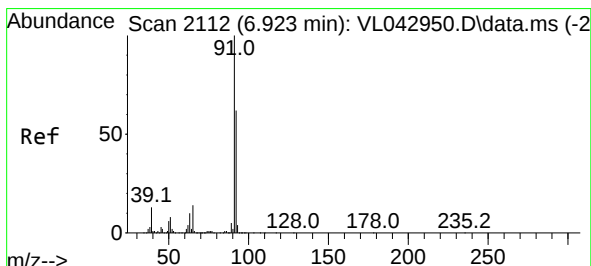
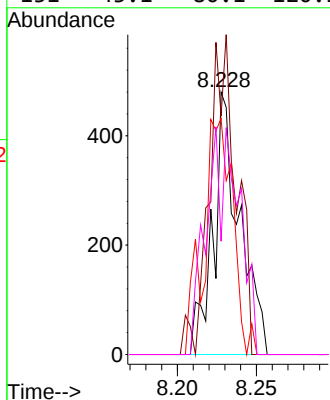
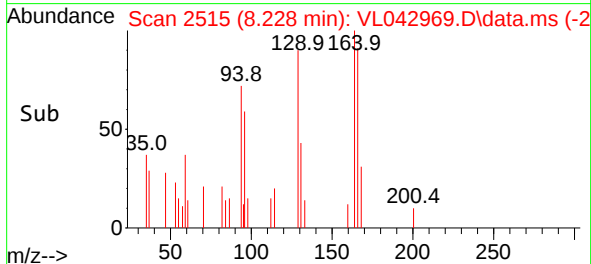
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2



Tgt Ion:164 Resp: 55
Ion Ratio Lower Upper
164 100
166 90.8 103.5 155.3
129 90.0 82.2 123.4
131 43.1 80.1 120.1#

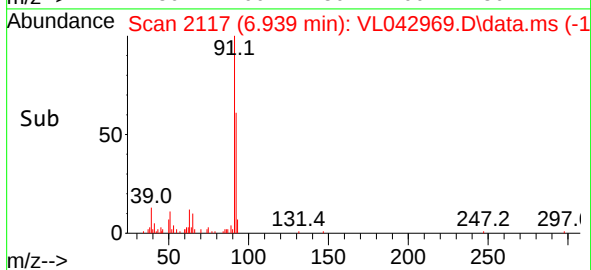
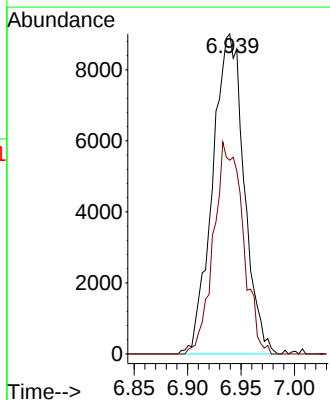
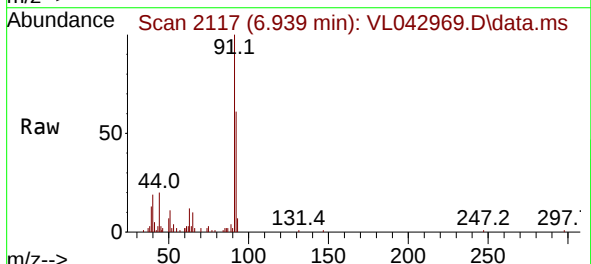
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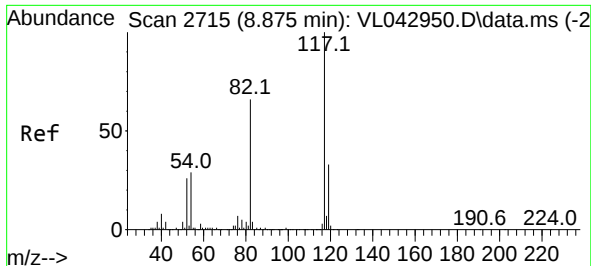
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#53
Toluene
Concen: 0.371 ppbv
RT: 6.939 min Scan# 2117
Delta R.T. 0.016 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

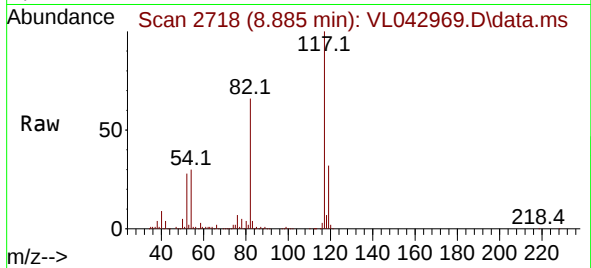
Tgt Ion: 91 Resp: 18554
Ion Ratio Lower Upper
91 100
92 61.4 48.2 72.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

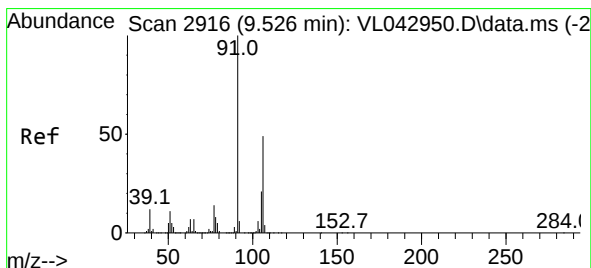
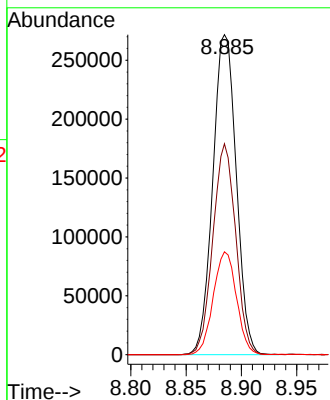
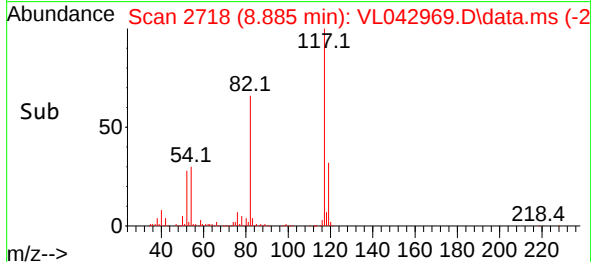
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2



Tgt Ion:117 Resp: 40162
Ion Ratio Lower Upper
117 100
82 64.0 52.8 79.2
119 31.8 26.5 39.7

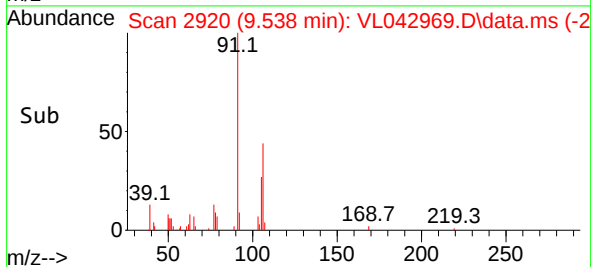
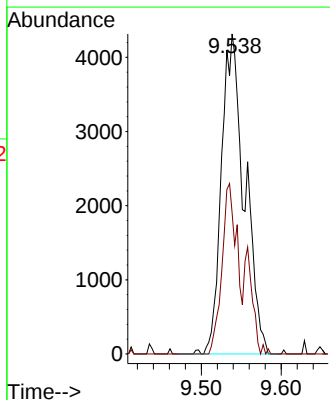
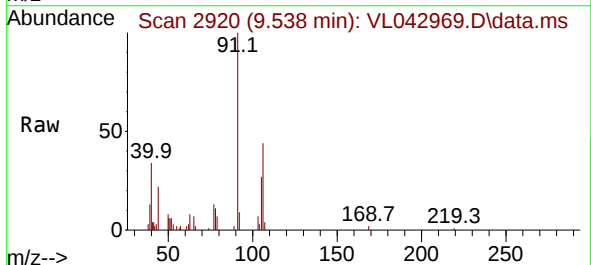
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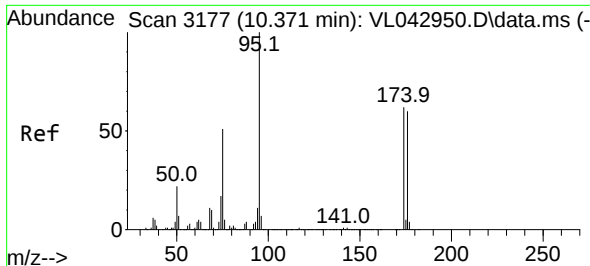
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#59
m/p-Xylene
Concen: 0.167 ppbv m
RT: 9.538 min Scan# 2920
Delta R.T. 0.013 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

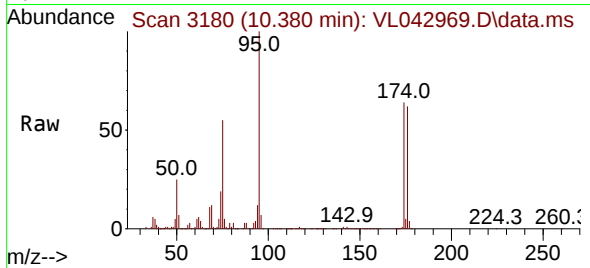
Tgt Ion: 91 Resp: 8680
Ion Ratio Lower Upper
91 100
106 46.6 0.0 0.0#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.059 ppbv
RT: 10.380 min Scan# 3177
Delta R.T. 0.009 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

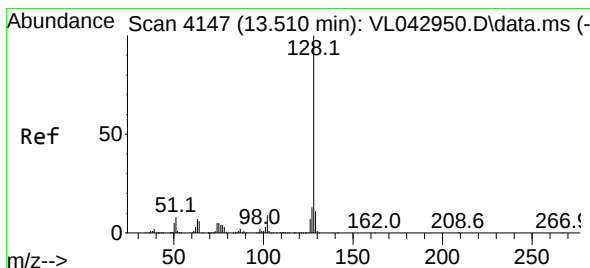
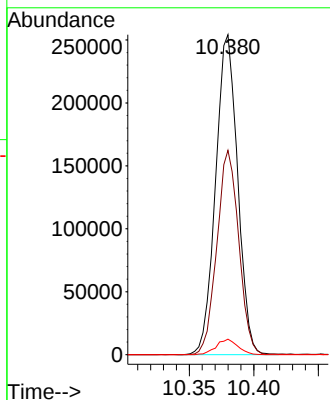
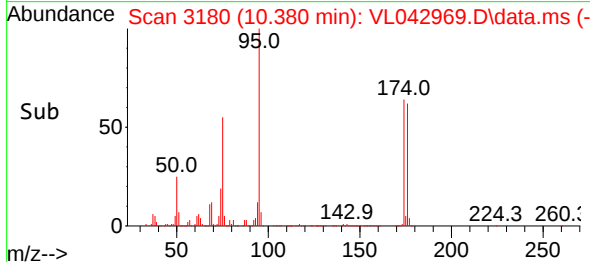
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2



Tgt Ion: 95 Resp: 301579
Ion Ratio Lower Upper
95 100
174 63.4 51.4 77.2
175 4.7 4.0 6.0

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



#79
Naphthalene
Concen: 0.147 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.006 min
Lab File: VL042969.D
Acq: 22 Sep 2025 22:11

Tgt Ion:128 Resp: 7562
Ion Ratio Lower Upper
128 100
127 10.1 10.6 15.8#
129 14.8 9.0 13.6#

