

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042199.D
 Acq On : 28 Mar 2025 02:33
 Operator : SY/MD
 Sample : Q1669-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B16-2-3262025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 23:04:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	181183	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	509062	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	458107	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	379865	10.097	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	11194	0.418	ppbv	99
3) Chlorodifluoromethane	1.473	51	5843m	0.214	ppbv	
9) Propene	1.483	41	1960m	0.156	ppbv	
10) Heptane	4.982	43	4590m	0.138	ppbv	
11) Trichlorofluoromethane	1.878	101	4706	0.181	ppbv	94
13) Ethanol	1.722	45	8952	7.560	ppbv #	27
15) Acetone	1.836	43	272395	10.750	ppbv	94
17) tert-Butyl alcohol	2.046	59	5649	0.179	ppbv #	71
20) Methylene Chloride	2.062	84	6239	0.661	ppbv	92
26) Hexane	2.826	57	14117	0.556	ppbv #	40
29) Chloroform	2.849	83	47910	1.289	ppbv	97
30) Cyclohexane	3.858	84	2653m	0.120	ppbv	
34) 2-Butanone	2.564	43	23343	0.632	ppbv	95
35) Carbon Tetrachloride	3.771	117	1682m	0.042	ppbv	
36) Benzene	3.658	78	11929	0.236	ppbv	98
50) 4-Methyl-2-Pentanone	5.762	43	196564	3.360	ppbv	97
52) Tetrachloroethene	8.225	164	3844	0.192	ppbv	85
53) Toluene	6.933	91	171948	2.874	ppbv	100
57) Chlorobenzene	8.917	112	4154m	0.096	ppbv	
58) Ethyl Benzene	9.354	91	20640	0.254	ppbv	90
59) m/p-Xylene	9.532	91	79433m	1.222	ppbv	
60) o-Xylene	9.966	91	29151	0.448	ppbv	100
61) Styrene	9.875	104	11979	0.372	ppbv	96
72) 4-Ethyltoluene	11.125	105	10586	0.131	ppbv #	89
73) 1,3,5-Trimethylbenzene	11.206	105	9797	0.138	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	25878	0.317	ppbv #	69

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

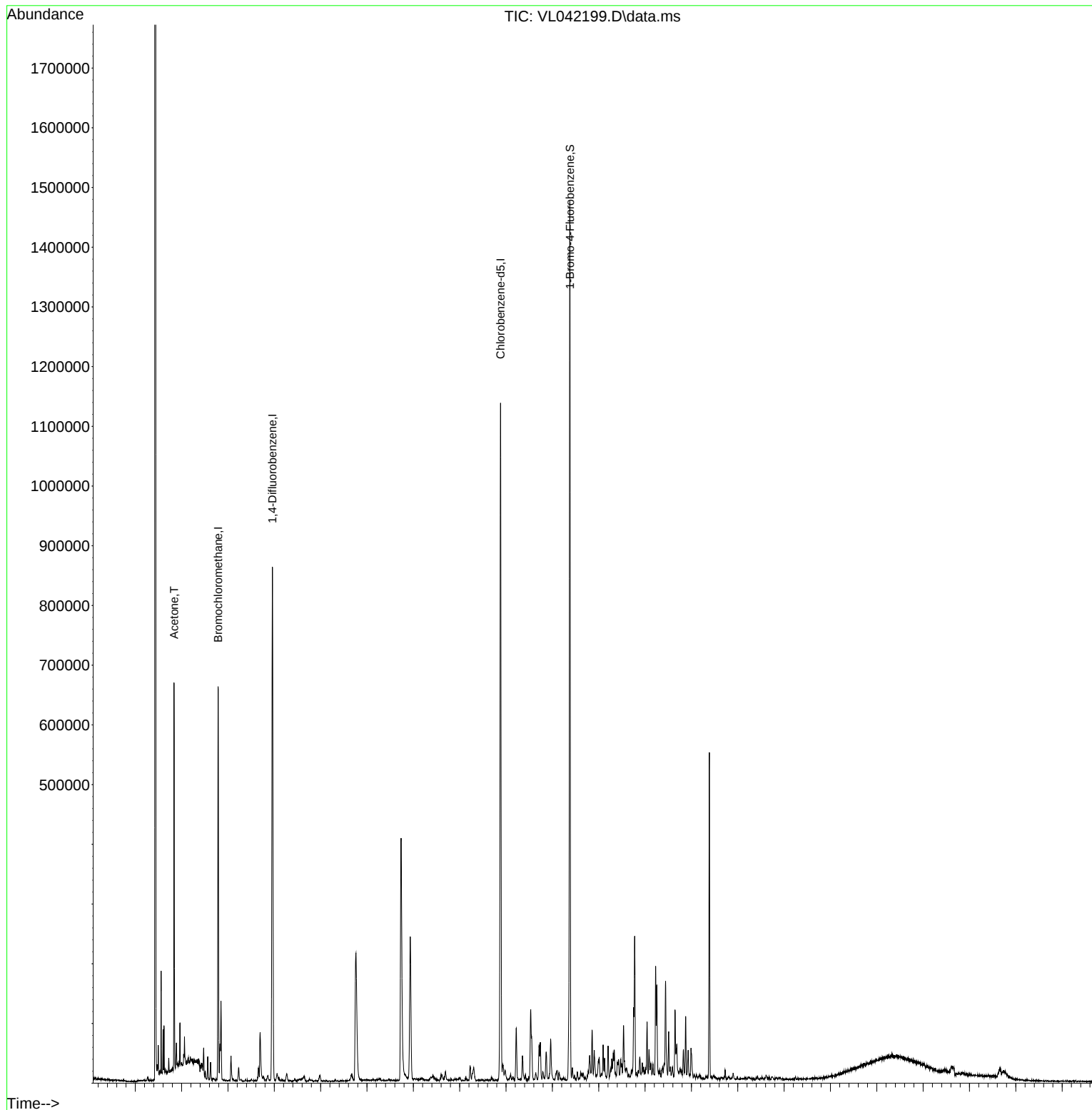
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042199.D
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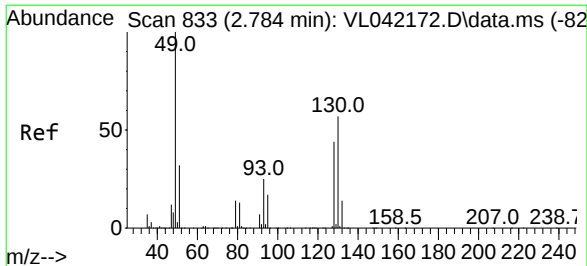
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025

Quant Time: Mar 28 23:04:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

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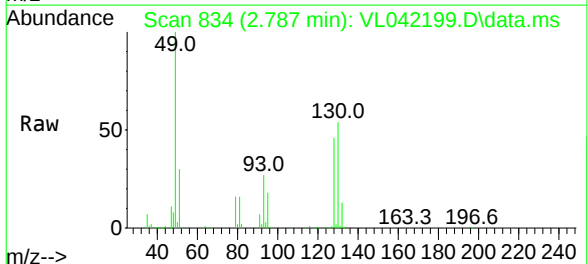
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

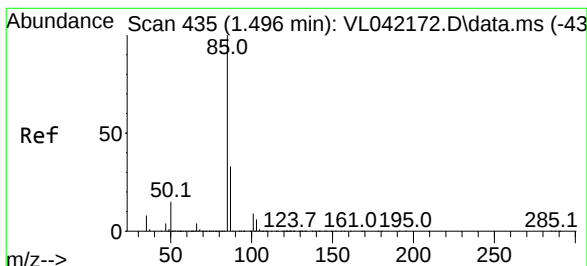
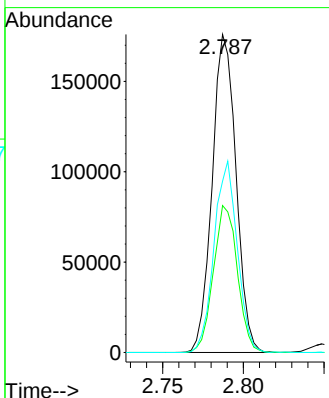
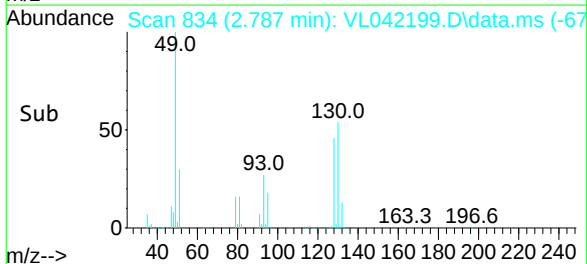
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025



Tgt Ion: 49 Resp: 181183
Ion Ratio Lower Upper
49 100
128 46.5 22.9 68.5
130 58.6 28.8 86.4

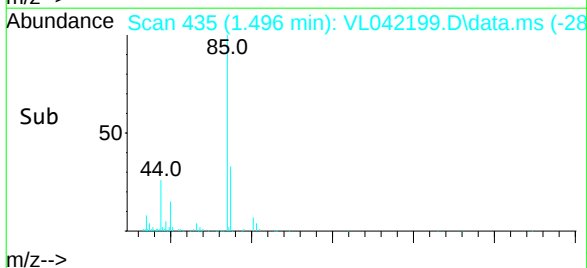
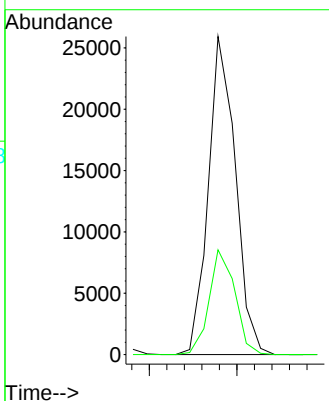
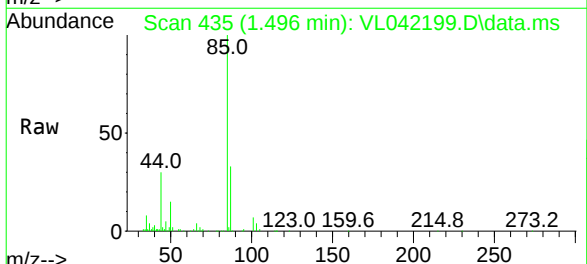
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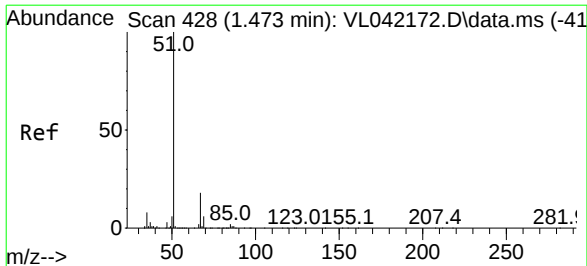
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#2
Dichlorodifluoromethane
Concen: 0.418 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

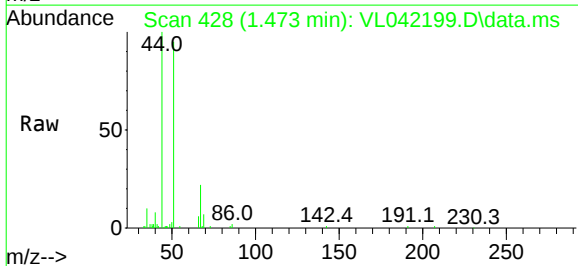
Tgt Ion: 85 Resp: 11194
Ion Ratio Lower Upper
85 100
87 32.9 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.214 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

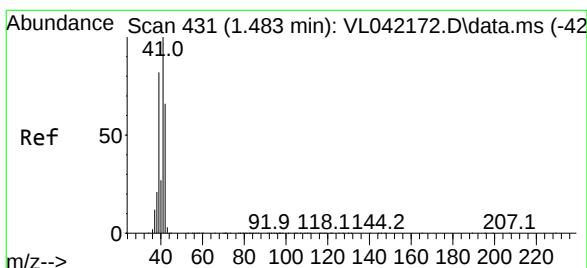
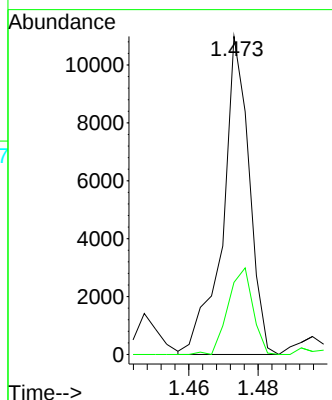
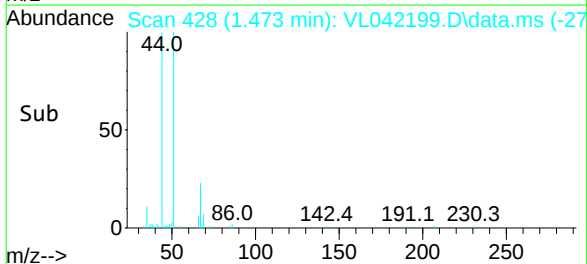
Instrument : MSVOA_L
ClientSampleId : SSSG-B16-2-3262025



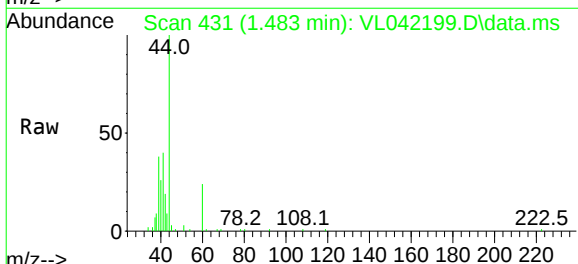
Tgt Ion: 51 Resp: 5843
Ion Ratio Lower Upper
51 100
67 28.7 15.0 22.6#

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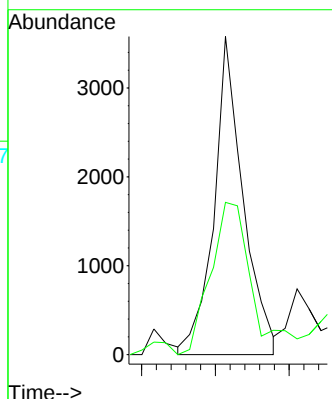
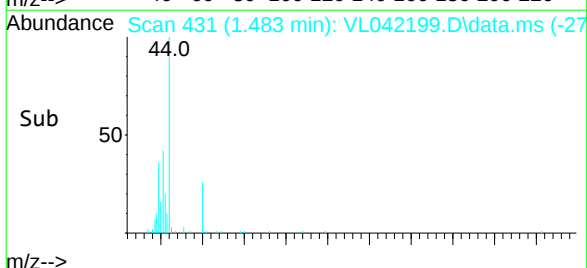
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

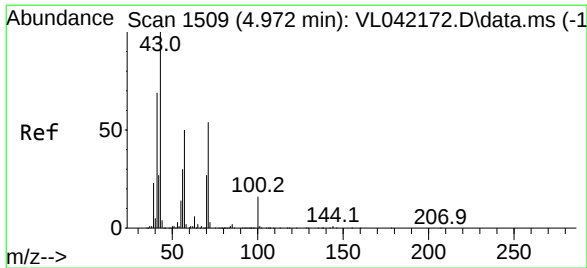


#9
Propene
Concen: 0.156 ppbv m
RT: 1.483 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33



Tgt Ion: 41 Resp: 1960
Ion Ratio Lower Upper
41 100
42 253.7 55.4 83.2#





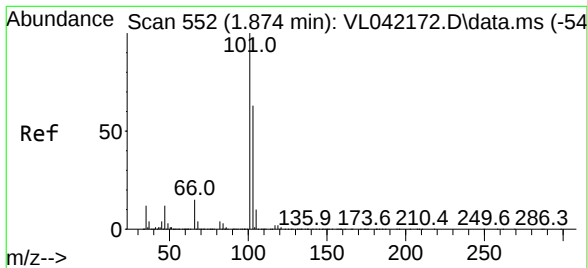
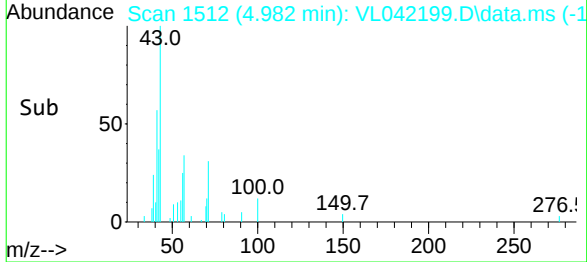
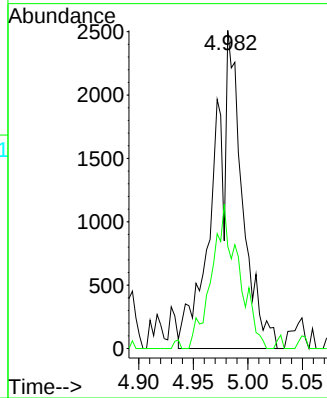
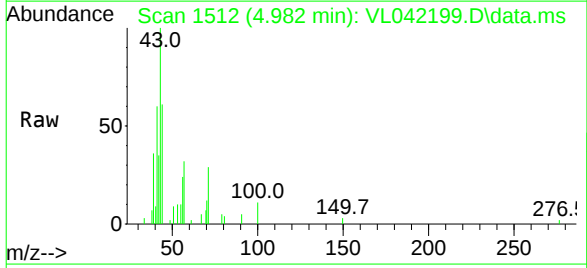
#10
Heptane
Concen: 0.138 ppbv m
RT: 4.982 min Scan# 1509
Delta R.T. 0.010 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025

Tgt Ion: 43 Resp: 4590
Ion Ratio Lower Upper
43 100
57 43.5 39.4 59.2

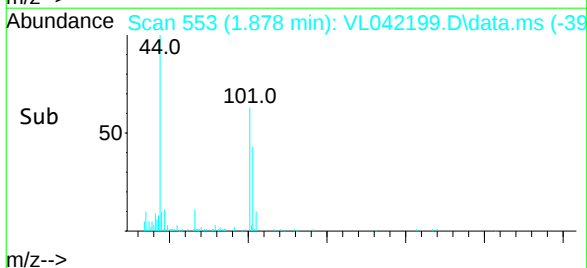
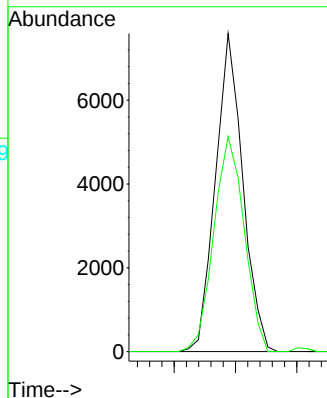
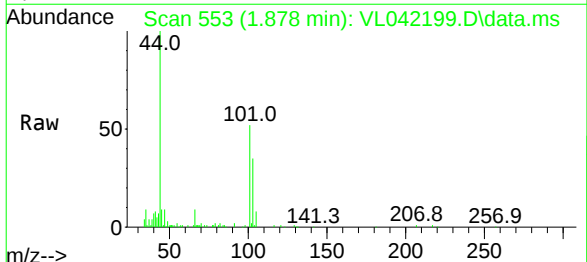
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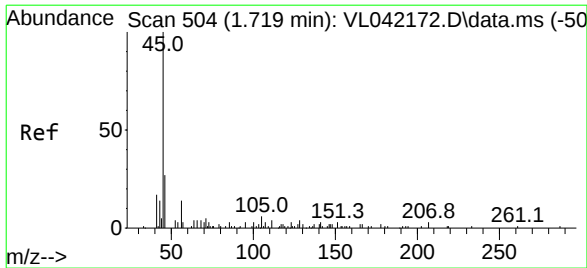
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#11
Trichlorofluoromethane
Concen: 0.181 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

Tgt Ion:101 Resp: 4706
Ion Ratio Lower Upper
101 100
103 67.6 50.2 75.2





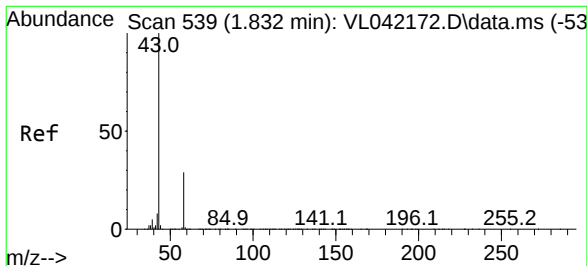
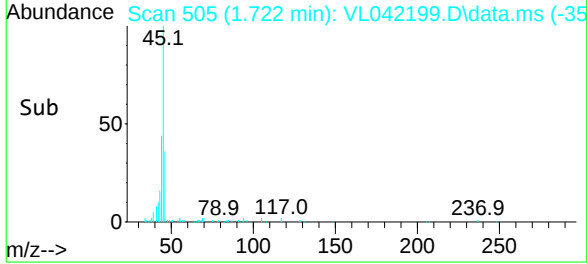
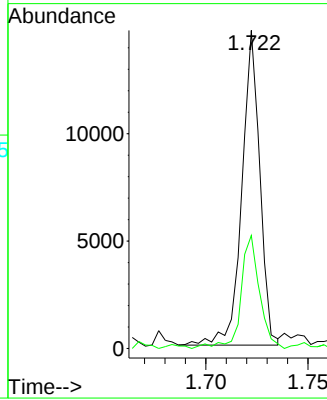
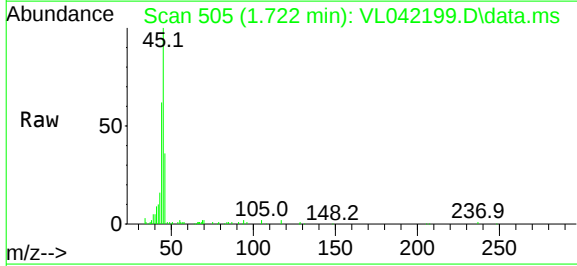
#13
Ethanol
Concen: 7.560 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025

Tgt Ion: 45 Resp: 8952
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#

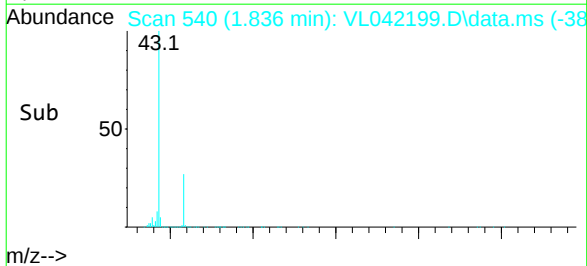
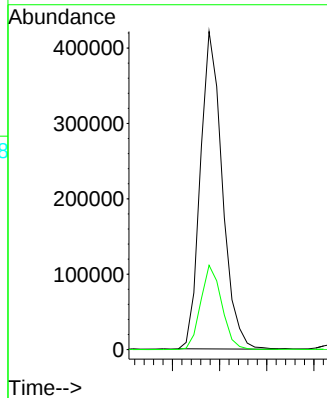
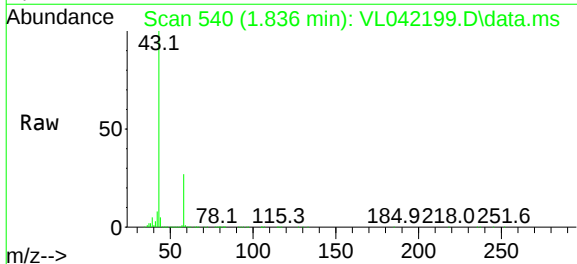
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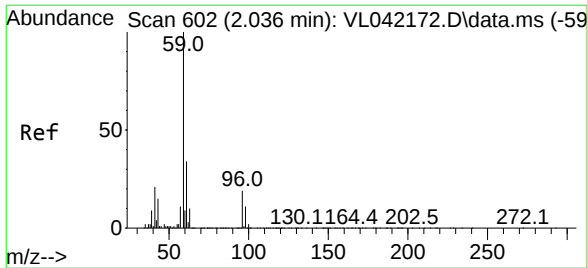
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#15
Acetone
Concen: 10.750 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

Tgt Ion: 43 Resp: 272395
Ion Ratio Lower Upper
43 100
58 25.7 23.2 34.8





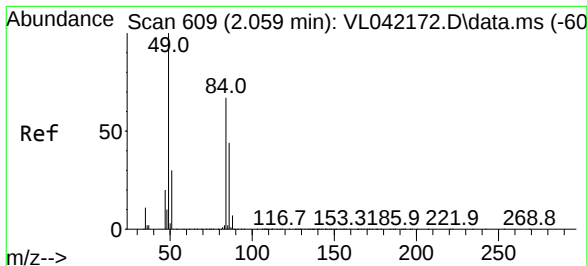
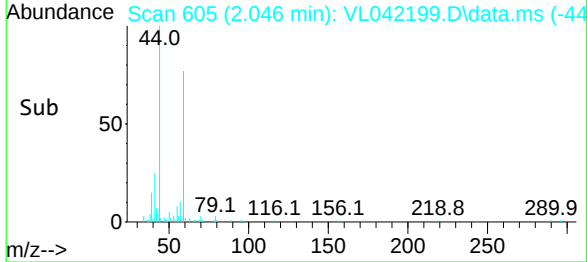
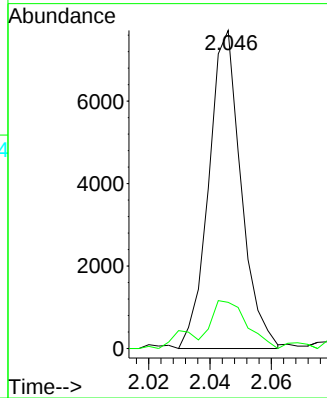
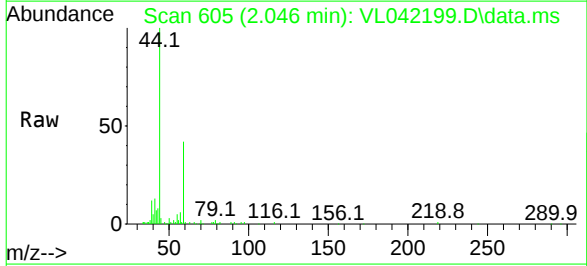
#17
tert-Butyl alcohol
Concen: 0.179 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.010 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

Instrument : MSVOA_L
ClientSampleId : SSSG-B16-2-3262025

Tgt Ion: 59 Resp: 5649
Ion Ratio Lower Upper
59 100
57 22.0 8.9 13.3#

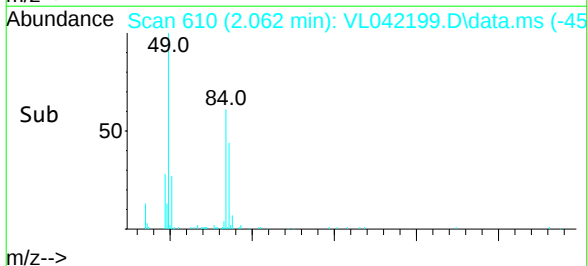
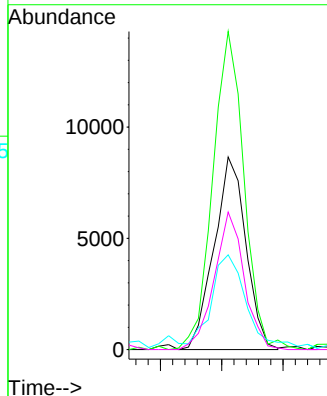
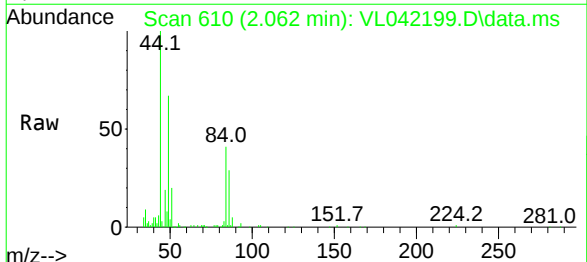
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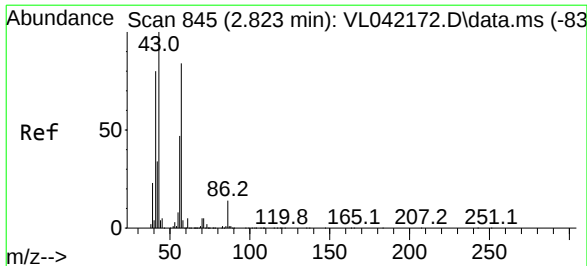
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 0.661 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

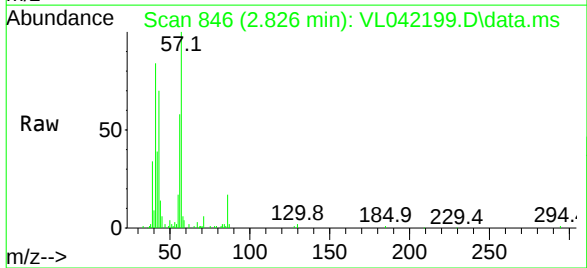
Tgt Ion: 84 Resp: 6239
Ion Ratio Lower Upper
84 100
49 164.3 120.2 180.4
51 46.0 37.4 56.0
86 71.4 52.4 78.6





#26
Hexane
Concen: 0.556 ppbv
RT: 2.826 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

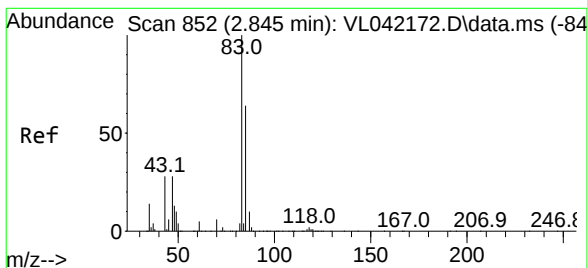
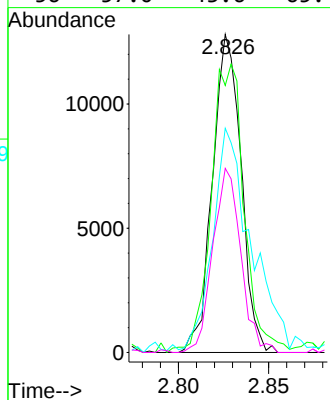
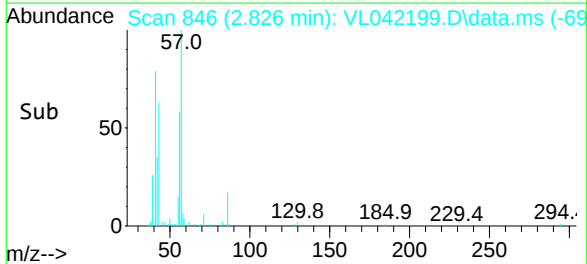
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025



Tgt Ion: 57 Resp: 14117
Ion Ratio Lower Upper
57 100
41 107.0 76.6 114.8
43 100.8 207.8 311.8#
56 57.0 43.6 65.4

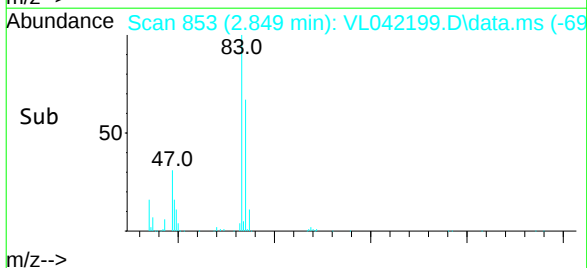
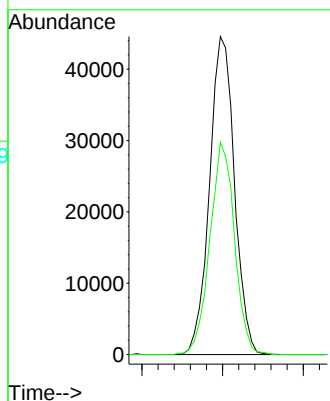
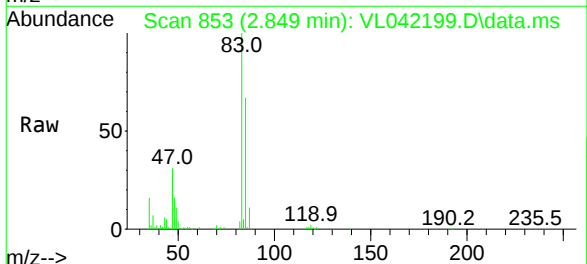
Manual Integrations
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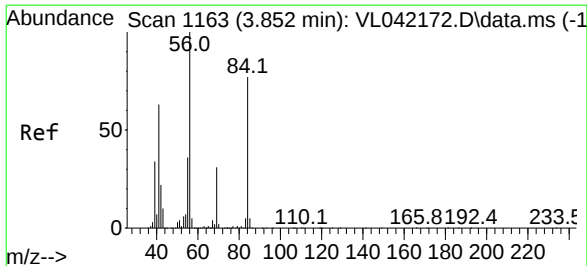
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#29
Chloroform
Concen: 1.289 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

Tgt Ion: 83 Resp: 47910
Ion Ratio Lower Upper
83 100
85 66.6 51.4 77.2





#30

Cyclohexane

Concen: 0.120 ppbv m

RT: 3.858 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL042199.D

Acq: 28 Mar 2025 02:33

Instrument :

MSVOA_L

ClientSampleId :

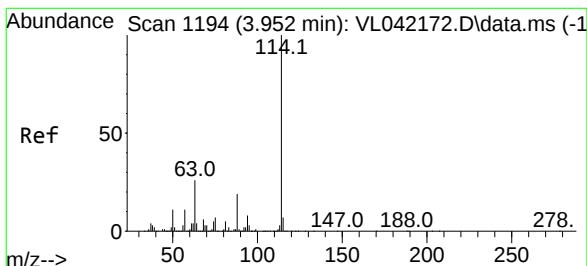
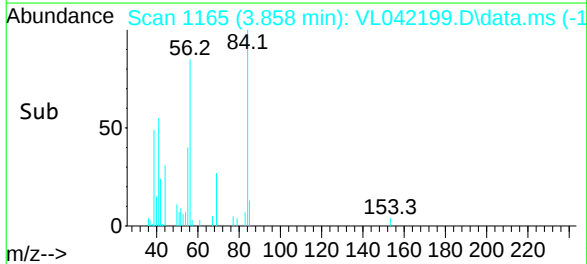
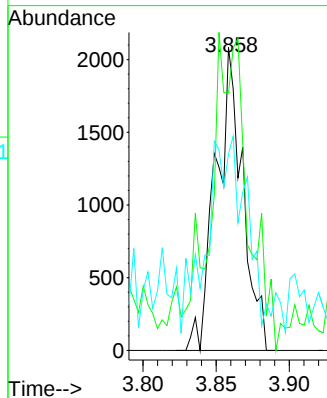
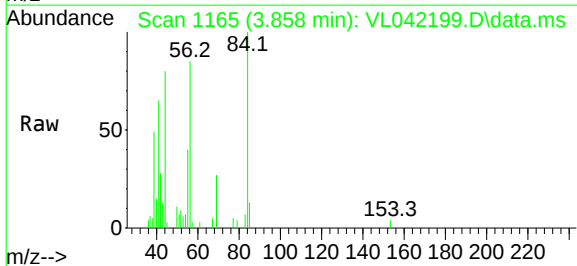
SSSG-B16-2-3262025

Tgt Ion:	84	Resp:	2653
Ion	Ratio	Lower	Upper
84	100		
56	0.0	102.8	154.2#
41	0.0	66.5	99.7#

Manual Integrations

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

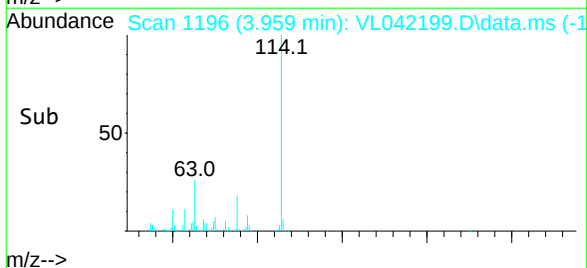
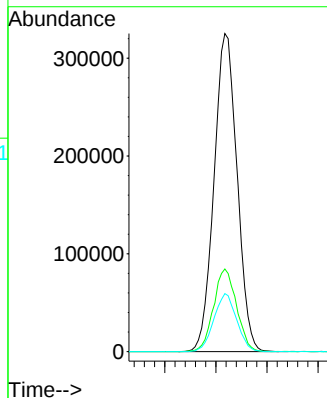
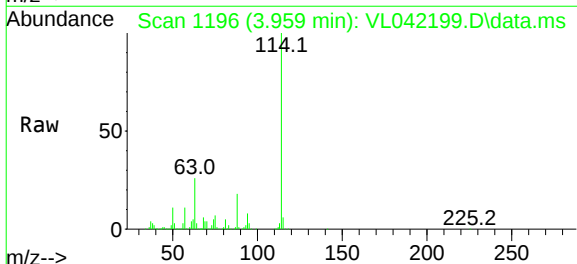
RT: 3.959 min Scan# 1196

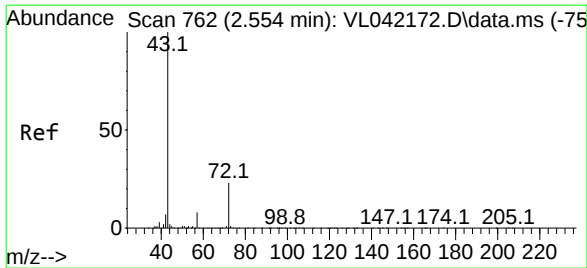
Delta R.T. 0.006 min

Lab File: VL042199.D

Acq: 28 Mar 2025 02:33

Tgt Ion:	114	Resp:	509062
Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.7	31.1
88	18.0	15.0	22.4





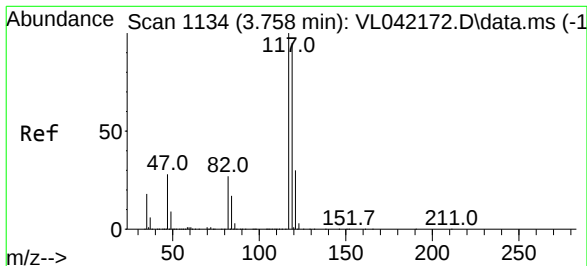
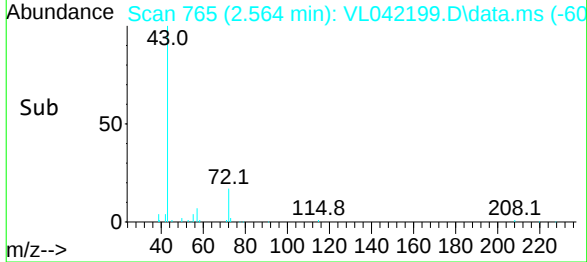
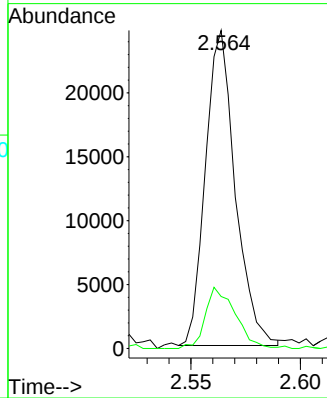
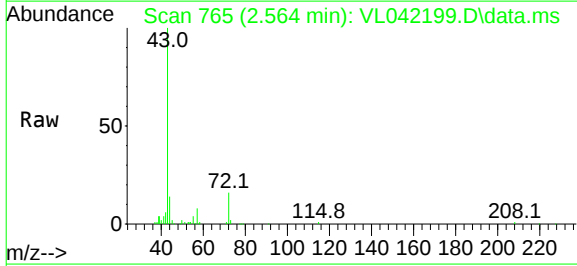
#34
2-Butanone
Concen: 0.632 ppbv
RT: 2.564 min Scan# 76
Delta R.T. 0.010 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025

Tgt Ion: 43 Resp: 23343
Ion Ratio Lower Upper
43 100
72 20.2 18.2 27.2

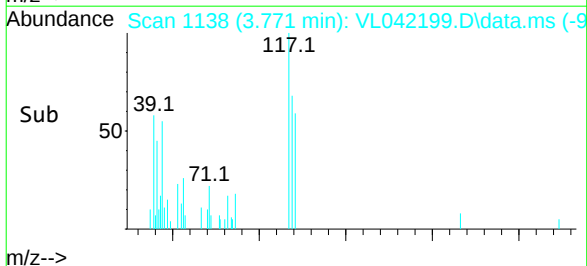
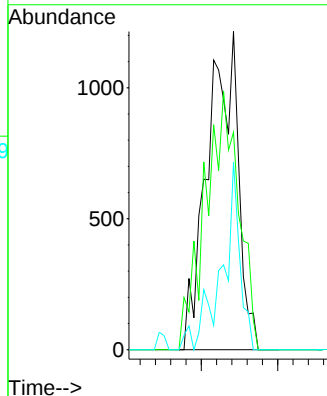
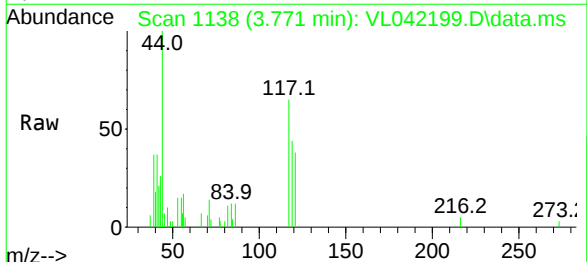
Manual Integrations
APPROVED

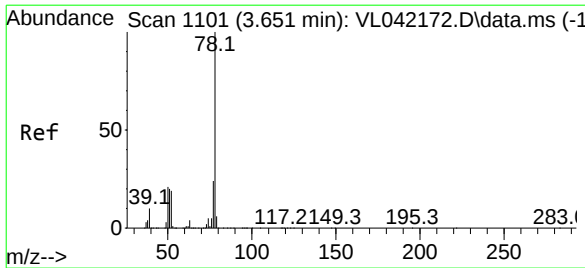
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 3.771 min Scan# 1138
Delta R.T. 0.013 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

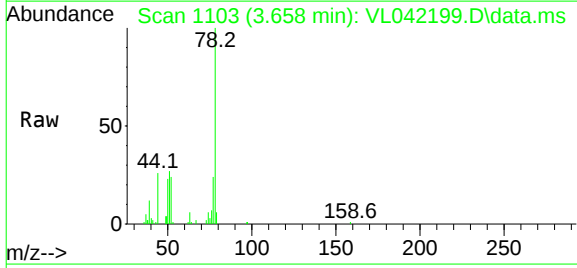
Tgt Ion:117 Resp: 1682
Ion Ratio Lower Upper
117 100
119 68.3 76.2 114.2#
121 58.9 24.2 36.4#





#36
Benzene
Concen: 0.236 ppbv
RT: 3.658 min Scan# 1101
Delta R.T. 0.006 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

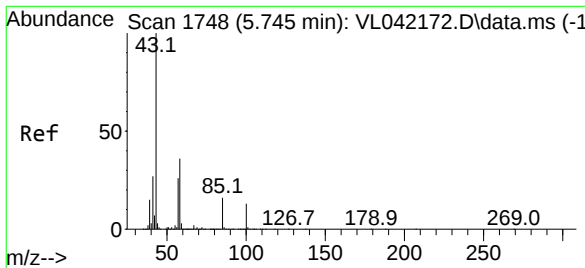
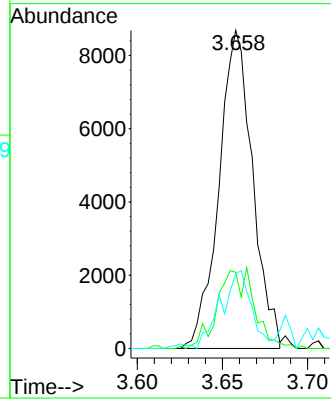
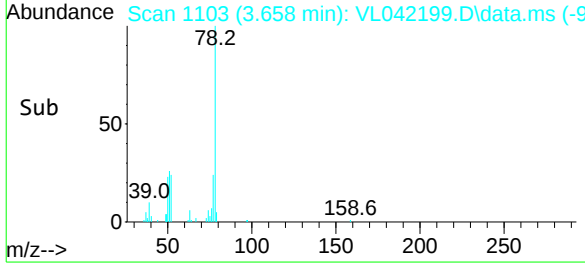
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025



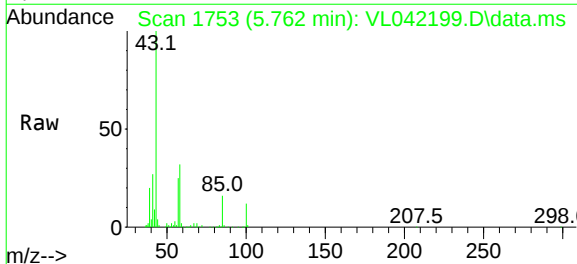
Tgt Ion: 78 Resp: 11929
Ion Ratio Lower Upper
78 100
77 23.3 19.1 28.7
50 22.0 16.6 24.8

Manual Integrations
APPROVED

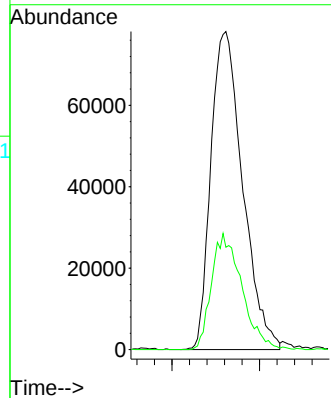
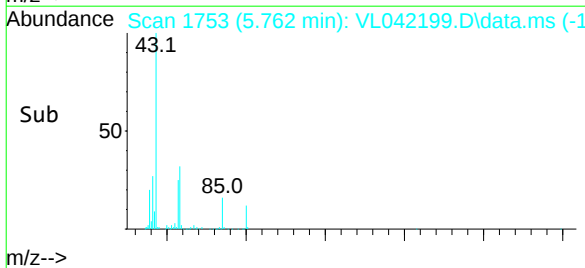
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

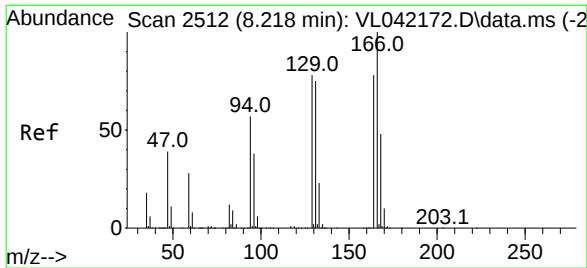


#50
4-Methyl-2-Pentanone
Concen: 3.360 ppbv
RT: 5.762 min Scan# 1753
Delta R.T. 0.016 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33



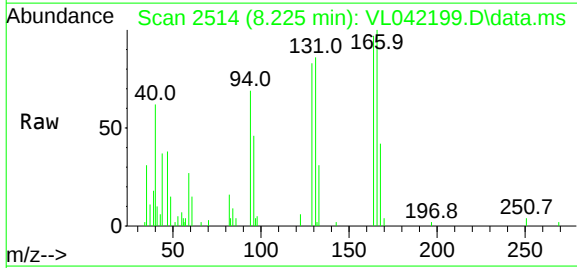
Tgt Ion: 43 Resp: 196564
Ion Ratio Lower Upper
43 100
58 34.8 29.0 43.6





#52
Tetrachloroethene
Concen: 0.192 ppbv
RT: 8.225 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

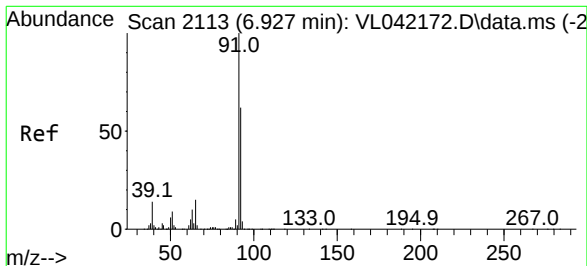
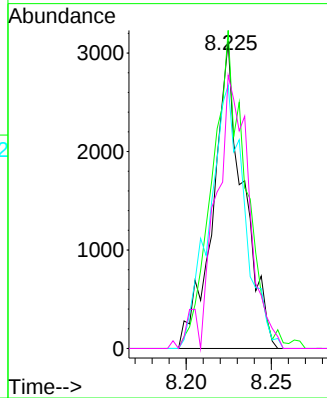
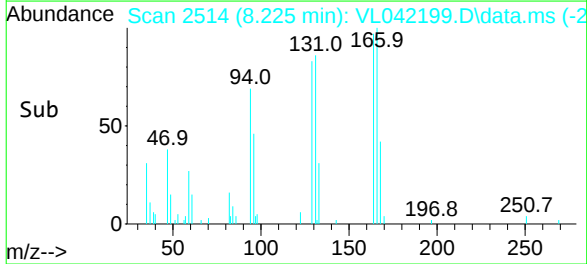
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025



Tgt Ion: 164 Resp: 3844
Ion Ratio Lower Upper
164 100
166 103.6 102.5 153.7
129 85.8 79.8 119.8
131 88.9 76.6 114.8

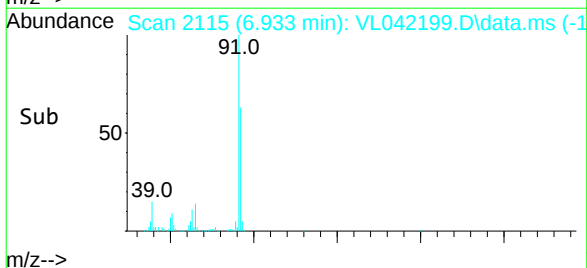
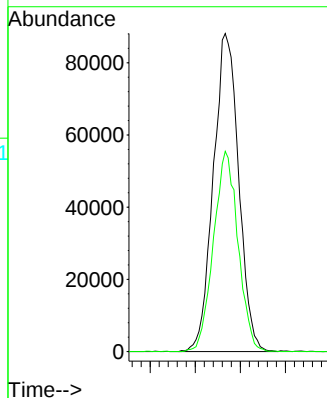
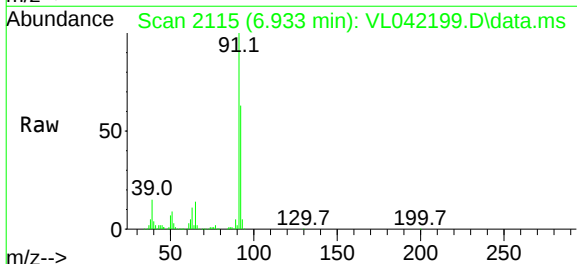
Manual Integrations
APPROVED

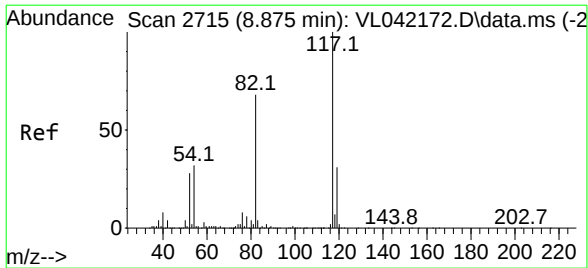
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#53
Toluene
Concen: 2.874 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

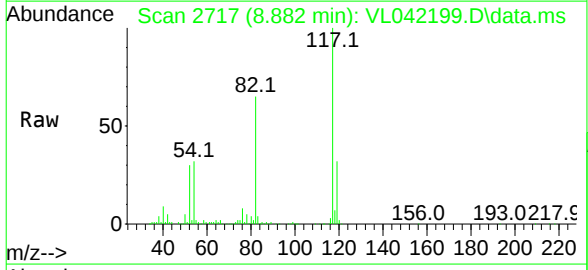
Tgt Ion: 91 Resp: 171948
Ion Ratio Lower Upper
91 100
92 60.9 48.4 72.6





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 8.882 min Scan# 2715
 Delta R.T. 0.006 min
 Lab File: VL042199.D
 Acq: 28 Mar 2025 02:33

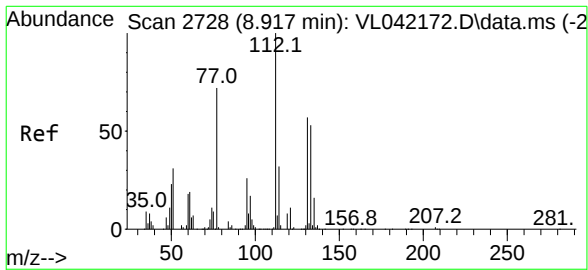
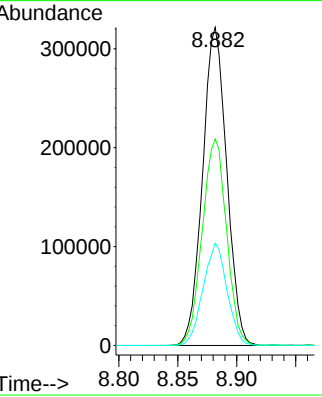
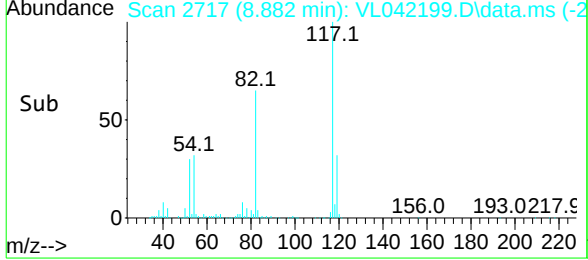
Instrument : MSVOA_L
 ClientSampleId : SSSG-B16-2-3262025



Tgt Ion:	117	Resp:	458107
Ion	Ratio	Lower	Upper
117	100		
82	65.5	55.8	83.6
119	32.0	25.5	38.3

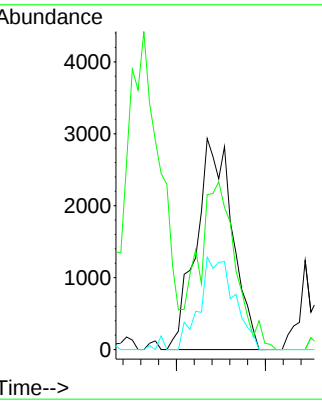
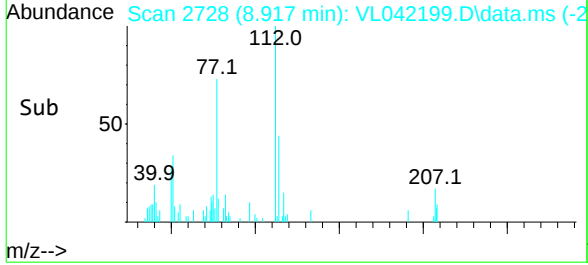
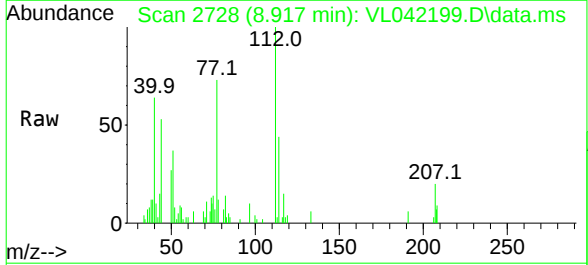
Manual Integrations
 APPROVED

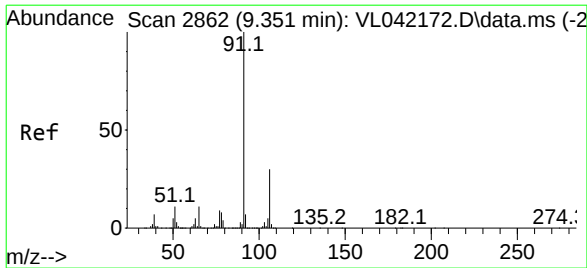
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#57
 Chlorobenzene
 Concen: 0.096 ppbv m
 RT: 8.917 min Scan# 2728
 Delta R.T. -0.000 min
 Lab File: VL042199.D
 Acq: 28 Mar 2025 02:33

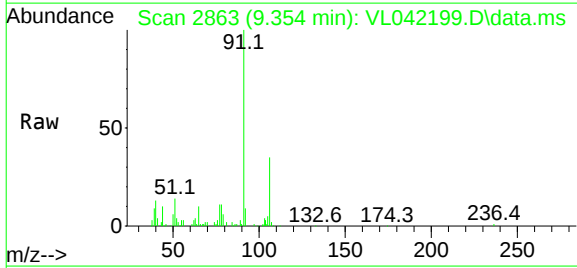
Tgt Ion:	112	Resp:	4154
Ion	Ratio	Lower	Upper
112	100		
77	73.4	58.2	87.2
114	43.8	29.1	35.5





#58
Ethyl Benzene
Concen: 0.254 ppbv
RT: 9.354 min Scan# 2862
Delta R.T. 0.003 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

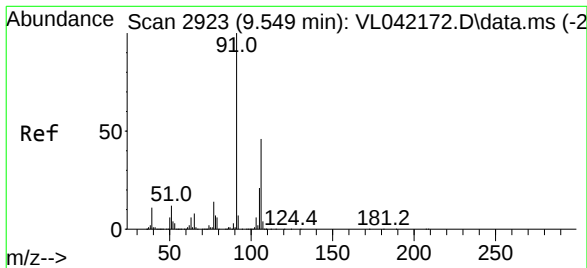
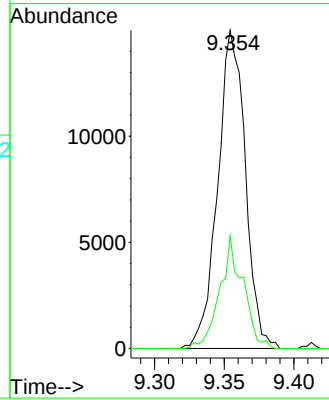
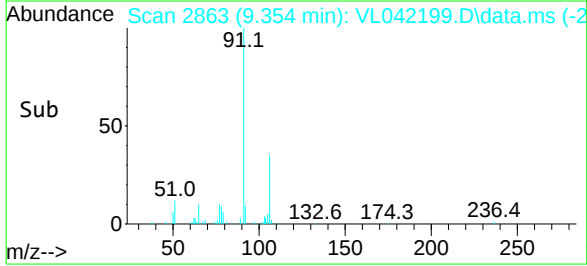
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025



Tgt Ion: 91 Resp: 20640
Ion Ratio Lower Upper
91 100
106 35.4 24.2 36.2

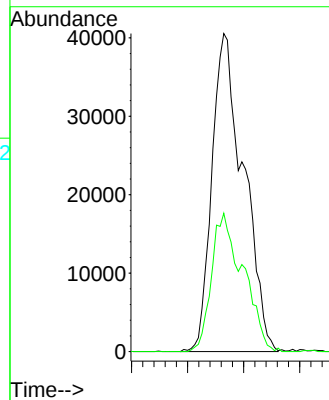
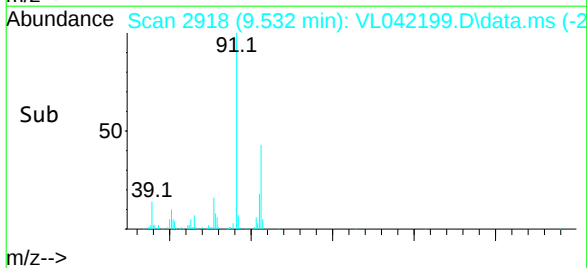
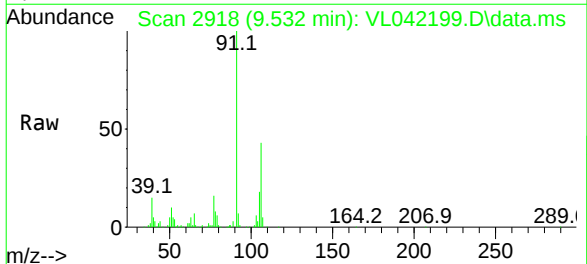
Manual Integrations
APPROVED

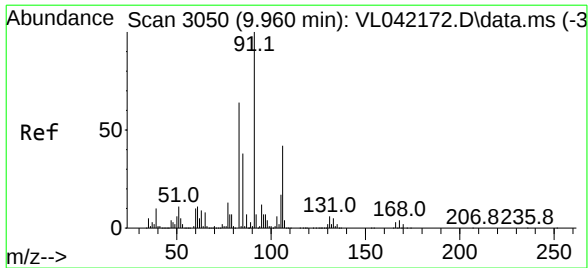
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#59
m/p-Xylene
Concen: 1.222 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.016 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

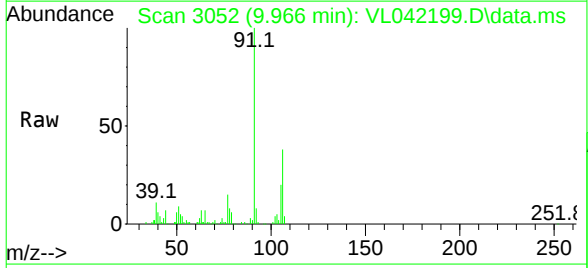
Tgt Ion: 91 Resp: 79433
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#





#60
o-Xylene
Concen: 0.448 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

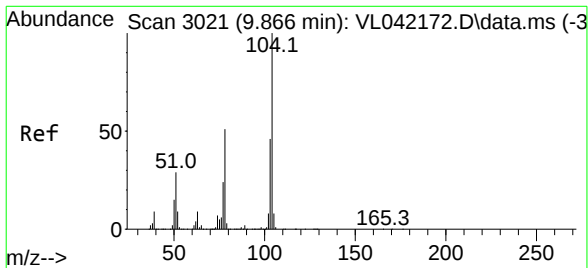
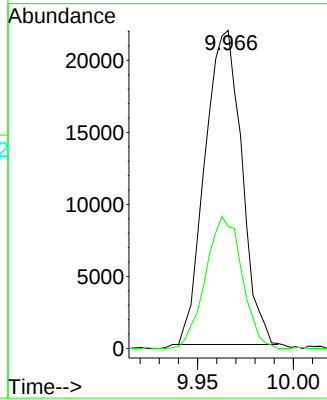
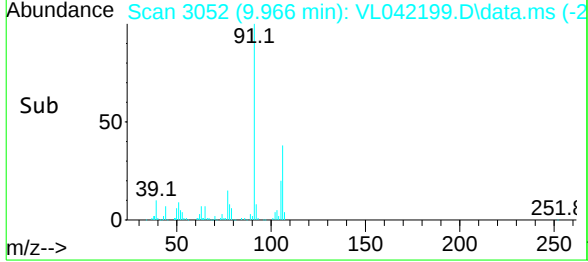
Instrument : MSVOA_L
ClientSampleId : SSSG-B16-2-3262025



Tgt Ion: 91 Resp: 29151
Ion Ratio Lower Upper
91 100
106 41.7 20.8 62.5

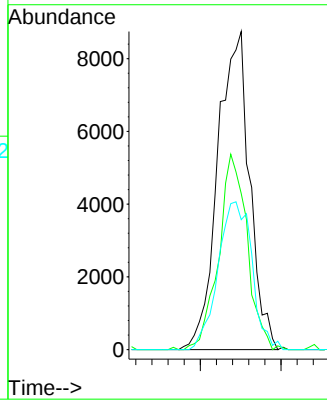
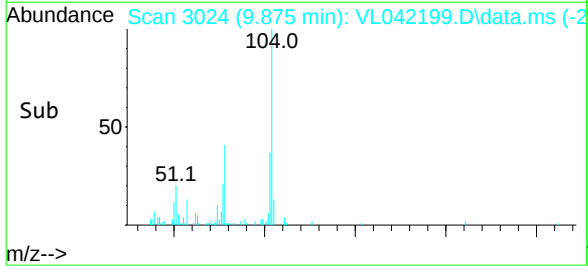
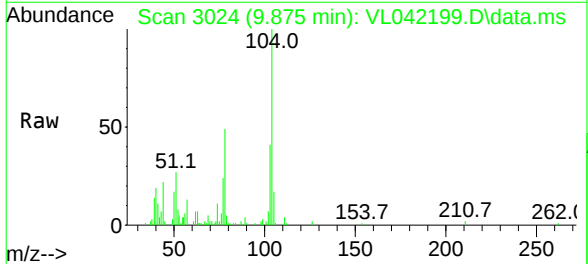
Manual Integrations
APPROVED

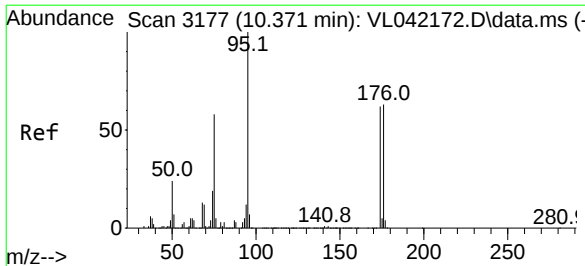
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#61
Styrene
Concen: 0.372 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.010 min
Lab File: VL042199.D
Acq: 28 Mar 2025 02:33

Tgt Ion:104 Resp: 11979
Ion Ratio Lower Upper
104 100
78 55.0 41.8 62.6
103 49.5 37.0 55.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.097 ppbv

RT: 10.377 min Scan# 3177

Delta R.T. 0.006 min

Lab File: VL042199.D

Acq: 28 Mar 2025 02:33

Instrument :

MSVOA_L

ClientSampleId :

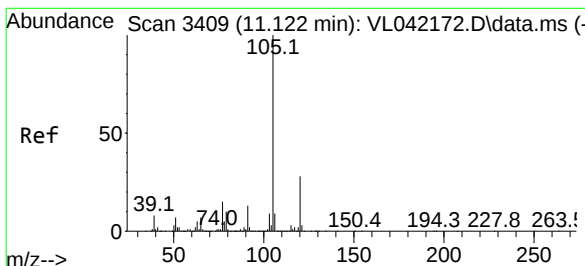
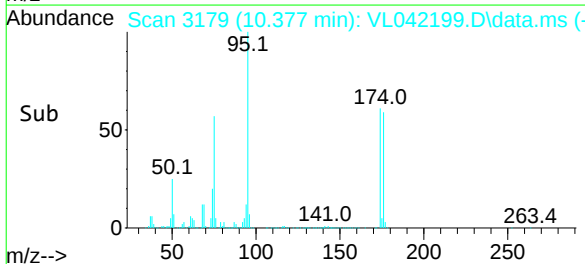
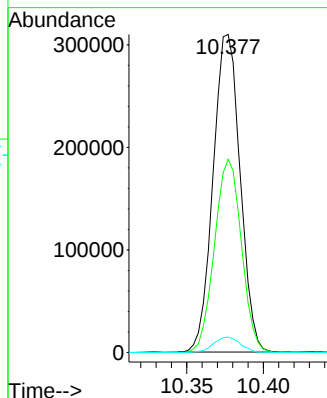
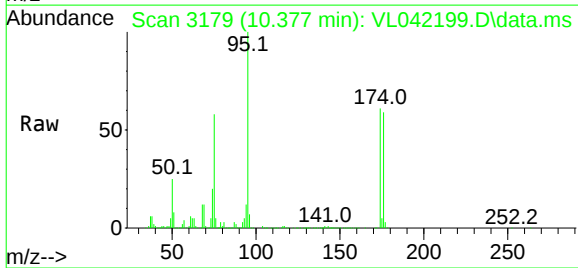
SSSG-B16-2-3262025

Tgt Ion:	95	Resp:	379865
Ion	Ratio	Lower	Upper
95	100		
174	60.7	50.6	76.0
175	4.8	3.8	5.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#72

4-Ethyltoluene

Concen: 0.131 ppbv

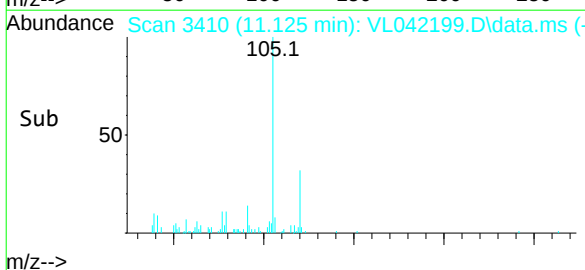
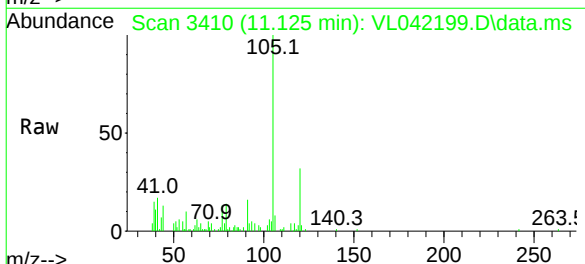
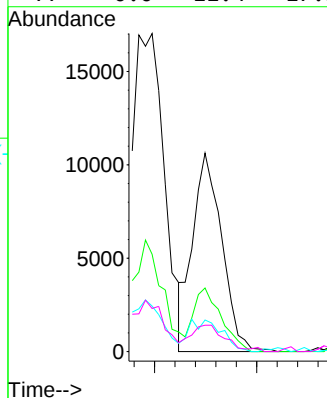
RT: 11.125 min Scan# 3410

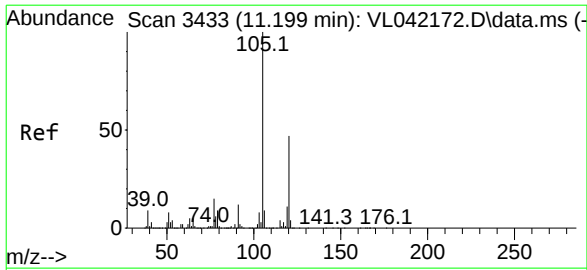
Delta R.T. 0.003 min

Lab File: VL042199.D

Acq: 28 Mar 2025 02:33

Tgt Ion:	105	Resp:	10586
Ion	Ratio	Lower	Upper
105	100		
120	30.1	23.4	35.0
91	14.4	10.3	15.5
77	0.0	11.4	17.2





#73

1,3,5-Trimethylbenzene

Concen: 0.138 ppbv

RT: 11.206 min Scan# 3433

Delta R.T. 0.006 min

Lab File: VL042199.D

Acq: 28 Mar 2025 02:33

Instrument :

MSVOA_L

ClientSampleId :

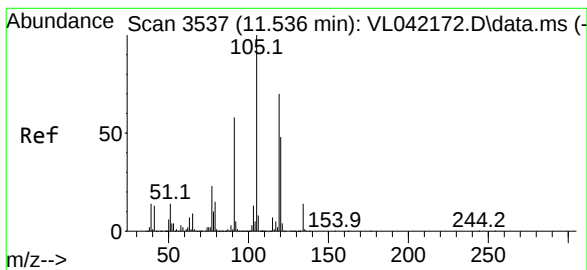
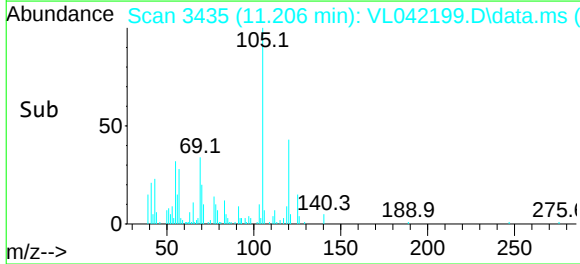
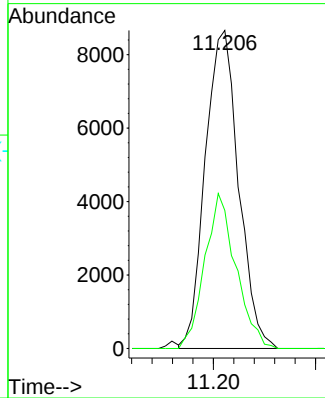
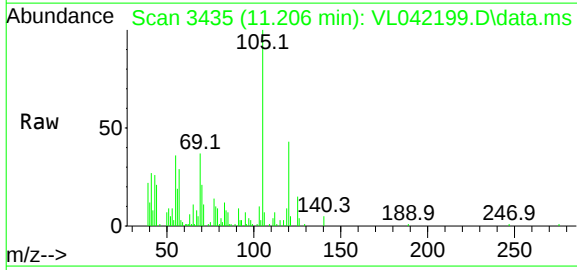
SSSG-B16-2-3262025

Tgt	Ion:105	Resp:	9797
Ion	Ratio	Lower	Upper
105	100		
120	43.4	37.4	56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.317 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL042199.D

Acq: 28 Mar 2025 02:33

Tgt	Ion:105	Resp:	25878
Ion	Ratio	Lower	Upper
105	100		
120	41.5	38.6	58.0
91	16.8	46.2	69.2#
77	15.9	18.6	27.8#

