

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041984.D
 Acq On : 10 Feb 2025 13:06
 Operator : SY/MD
 Sample : Q1302-02DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:22:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	152629	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.955	114	437060	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	379198	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 290420 9.724 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.200%

Target Compounds

						Qvalue
10) Heptane	4.981	43	6876m	0.287	ppbv	
13) Ethanol	1.722	45	2288m	3.482	ppbv	
15) Acetone	1.835	43	281107	15.334	ppbv	99
17) tert-Butyl alcohol	2.046	59	2606	0.116	ppbv #	39
19) Isopropyl Alcohol	1.887	45	5145	0.473	ppbv #	1
20) Methylene Chloride	2.059	84	1302	0.180	ppbv #	78
25) Ethyl Acetate	2.826	43	12917	0.261	ppbv #	82
26) Hexane	2.826	57	15562	0.796	ppbv #	36
30) Cyclohexane	3.855	84	3523m	0.208	ppbv	
32) 1,1,1-Trichloroethane	3.366	97	1357m	0.046	ppbv	
34) 2-Butanone	2.560	43	18312	0.659	ppbv	95
41) Tetrahydrofuran	3.065	42	5497	0.364	ppbv #	85
50) 4-Methyl-2-Pentanone	5.755	43	76022	2.004	ppbv	98
51) 2-Hexanone	7.448	43	16952m	0.581	ppbv	
52) Tetrachloroethene	8.221	164	1072m	0.077	ppbv	
53) Toluene	6.933	91	133503	3.057	ppbv	99
58) Ethyl Benzene	9.351	91	14655	0.247	ppbv #	88
59) m/p-Xylene	9.526	91	42554	0.896	ppbv	93
60) o-Xylene	9.959	91	25754	0.546	ppbv	97
62) Isopropylbenzene	10.532	105	11485	0.157	ppbv	96
64) n-propylbenzene	10.989	120	5760m	0.312	ppbv	
65) tert-Butylbenzene	11.532	119	10354	0.156	ppbv #	70
67) sec-Butylbenzene	11.769	105	13343	0.146	ppbv	95
70) n-Butylbenzene	12.283	91	8970m	0.120	ppbv	
73) 1,3,5-Trimethylbenzene	11.202	105	28815	0.579	ppbv	97
74) 1,2,4-Trimethylbenzene	11.536	105	84353	1.564	ppbv #	56

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

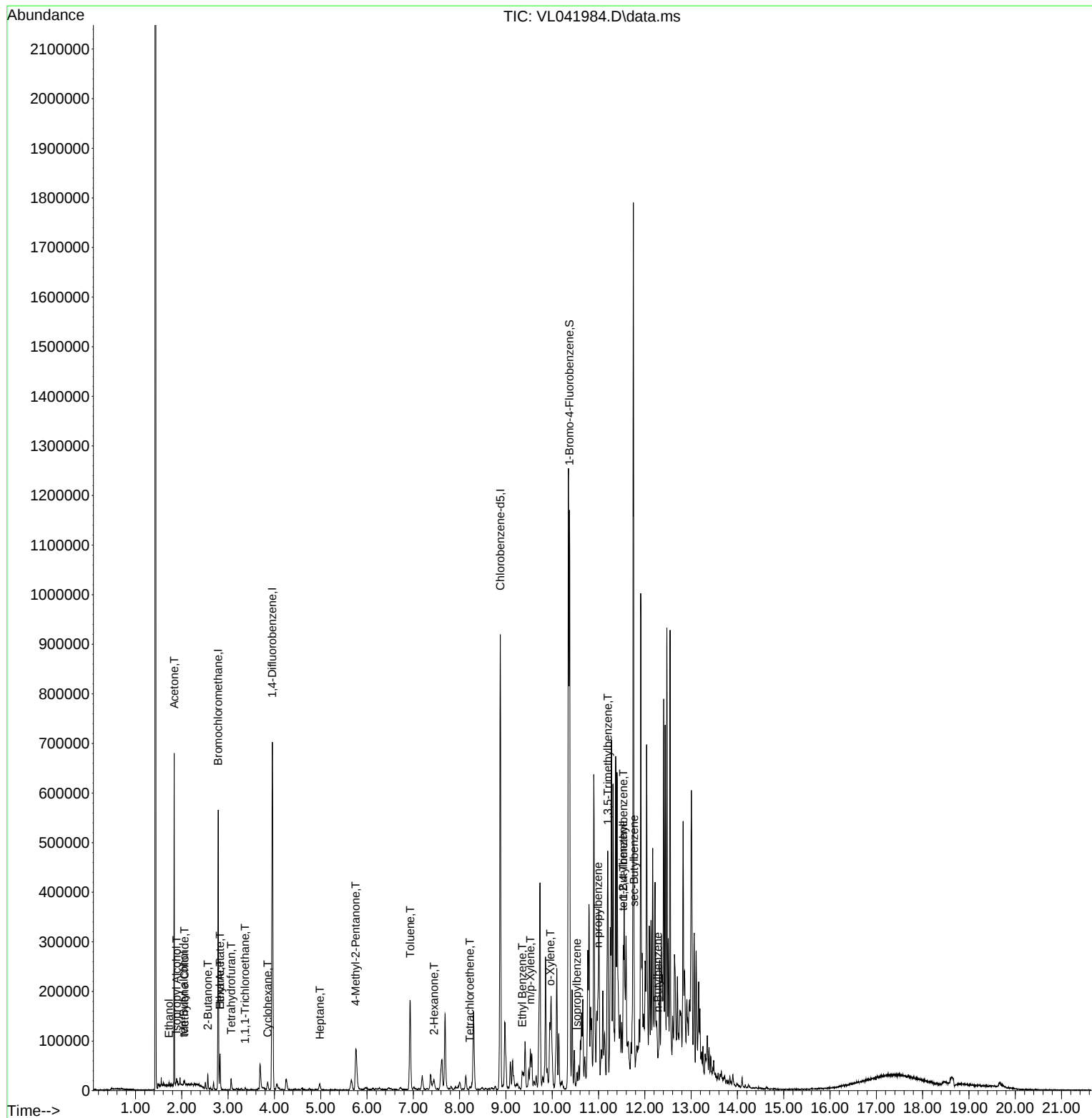
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
Data File : VL041984.D
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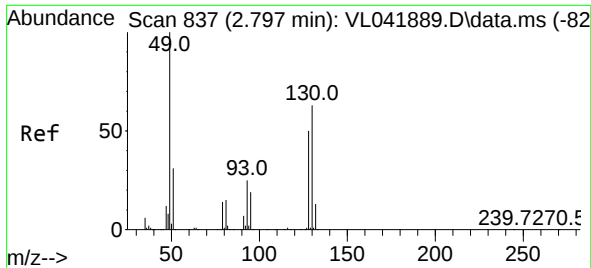
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:22:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration





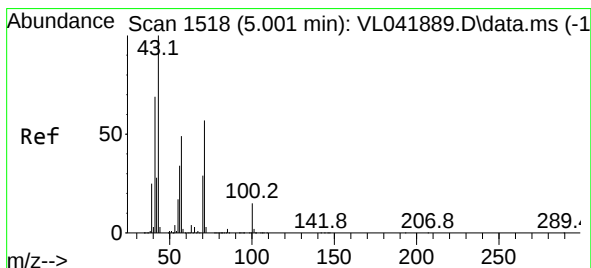
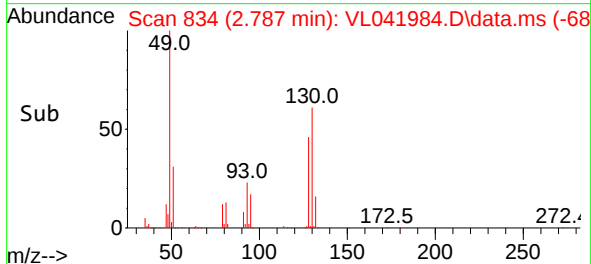
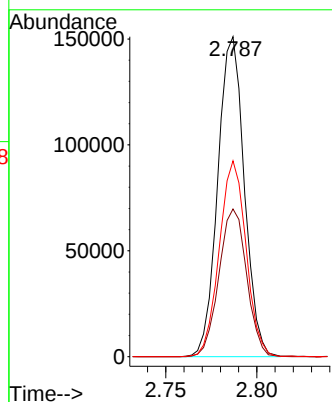
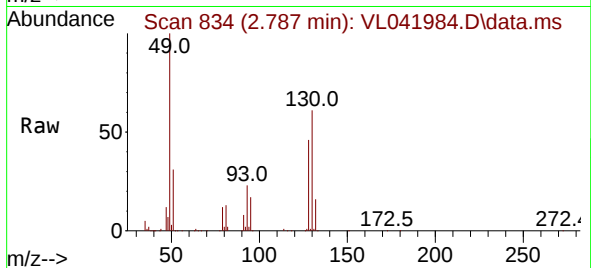
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 837
Delta R.T. -0.010 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion: 49 Resp: 152629
Ion Ratio Lower Upper
49 100
128 48.2 24.3 73.0
130 62.0 31.1 93.2

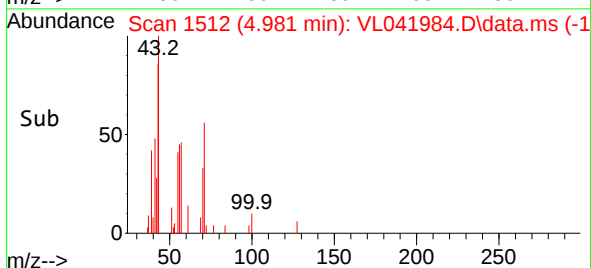
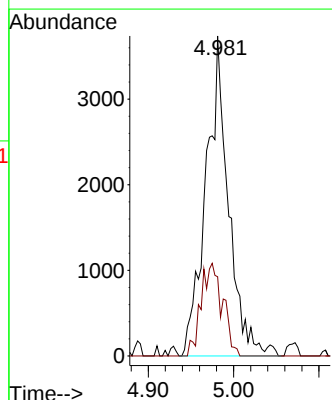
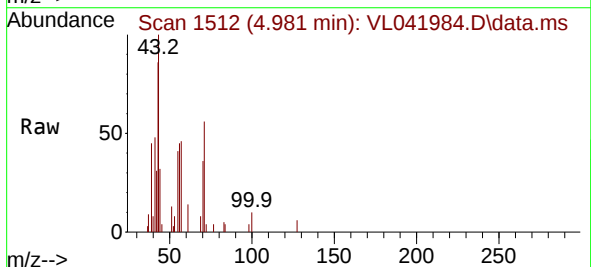
Manual Integrations
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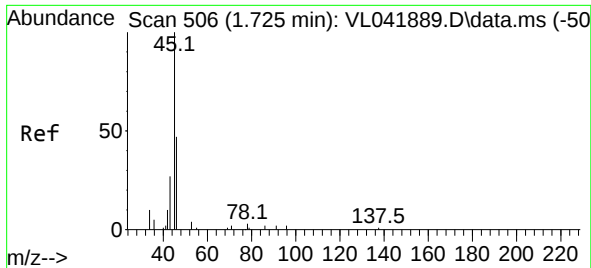
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#10
Heptane
Concen: 0.287 ppbv m
RT: 4.981 min Scan# 1512
Delta R.T. -0.019 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

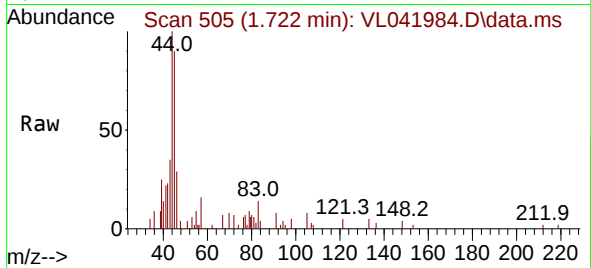
Tgt Ion: 43 Resp: 6876
Ion Ratio Lower Upper
43 100
57 0.0 41.0 61.4#





#13
Ethanol
Concen: 3.482 ppbv m
RT: 1.722 min Scan# 506
Delta R.T. -0.003 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

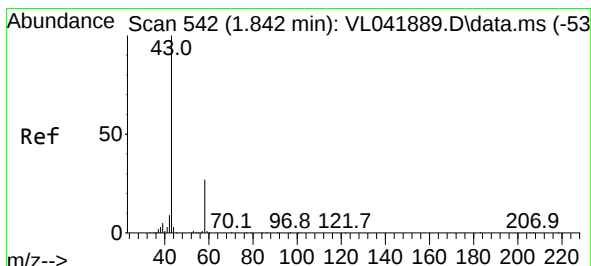
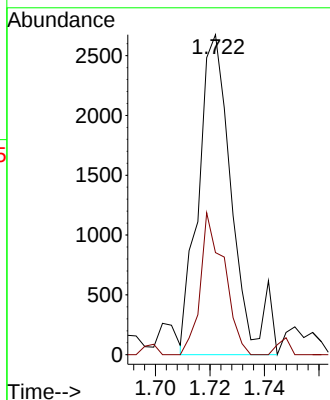
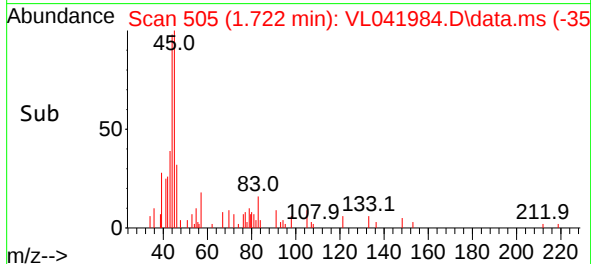
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



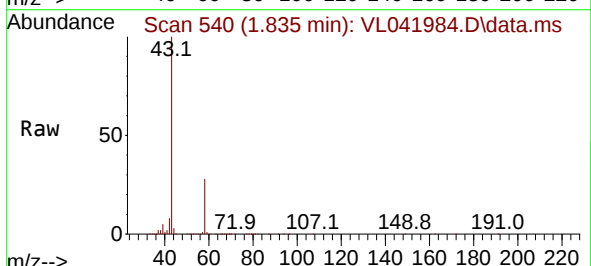
Tgt Ion: 45 Resp: 2288
Ion Ratio Lower Upper
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46 0.0 18.1 72.5

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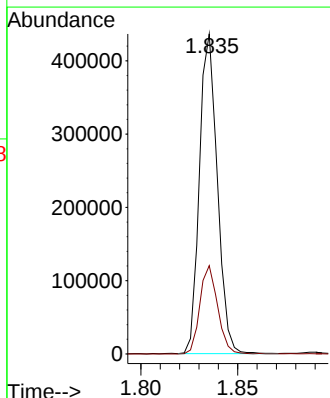
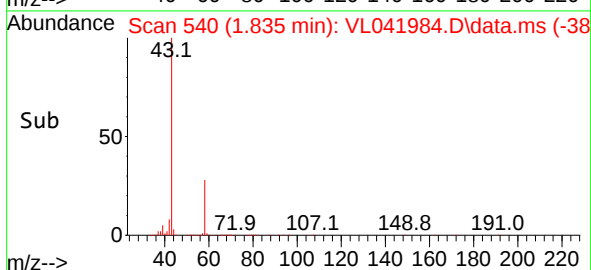
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

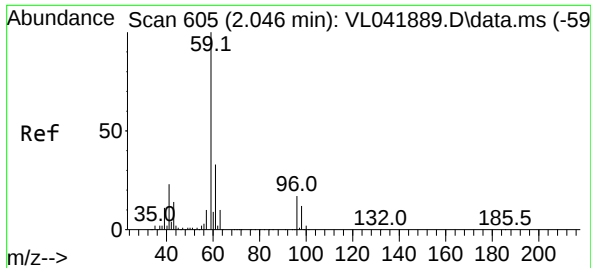


#15
Acetone
Concen: 15.334 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.007 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06



Tgt Ion: 43 Resp: 281107
Ion Ratio Lower Upper
43 100
58 27.7 21.9 32.9





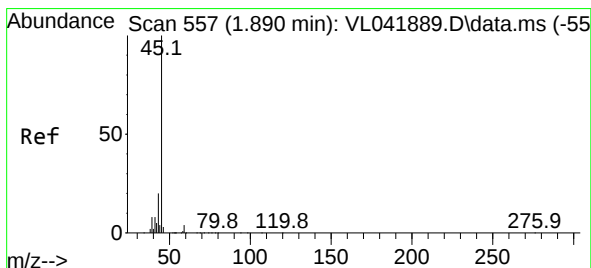
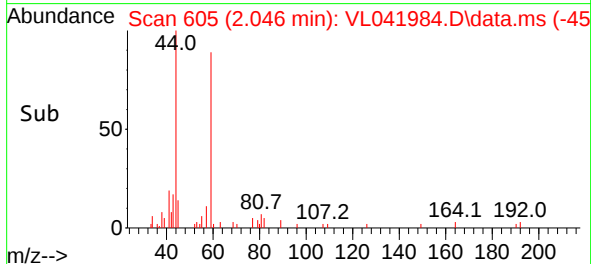
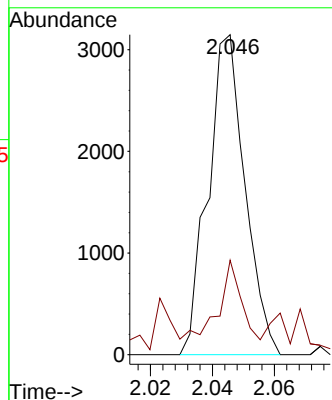
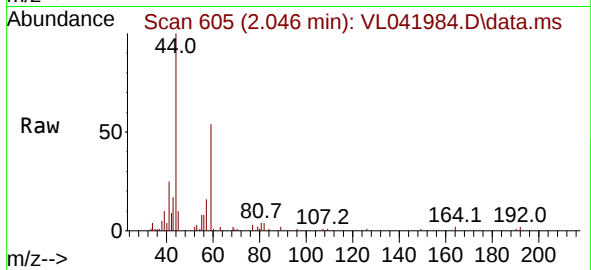
#17
tert-Butyl alcohol
Concen: 0.116 ppbv
RT: 2.046 min Scan# 605
Delta R.T. -0.000 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion: 59 Resp: 2600
Ion Ratio Lower Upper
59 100
57 32.5 7.8 11.8

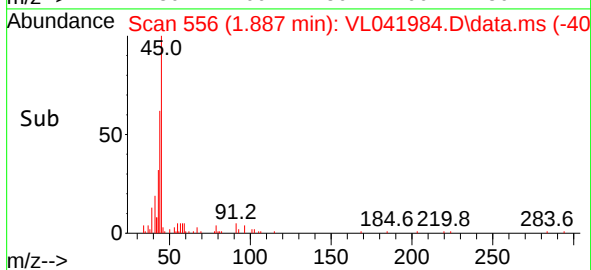
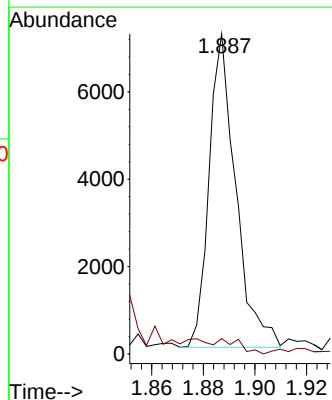
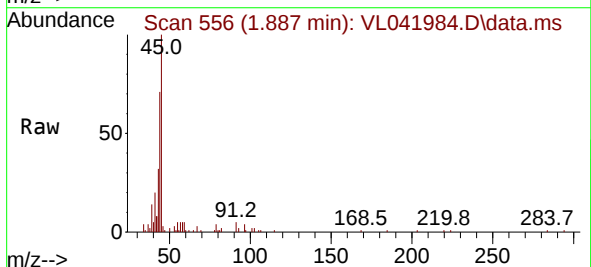
Manual Integrations
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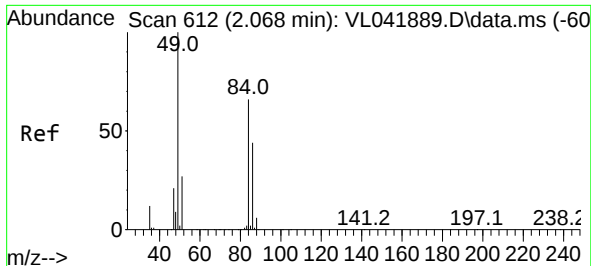
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#19
Isopropyl Alcohol
Concen: 0.473 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.003 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

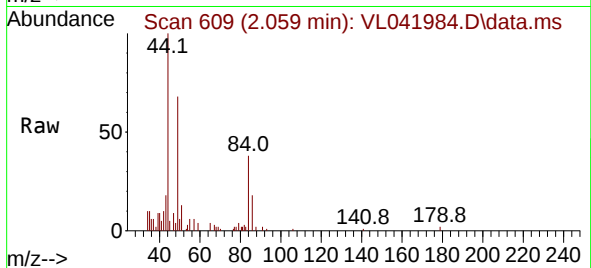
Tgt Ion: 45 Resp: 5145
Ion Ratio Lower Upper
45 100
58 1511.5 35.0 52.6#





#20
Methylene Chloride
Concen: 0.180 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

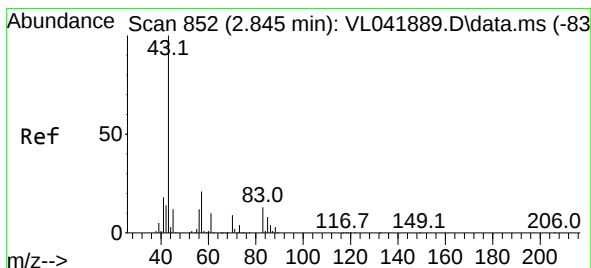
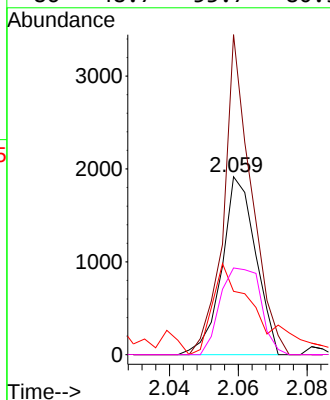
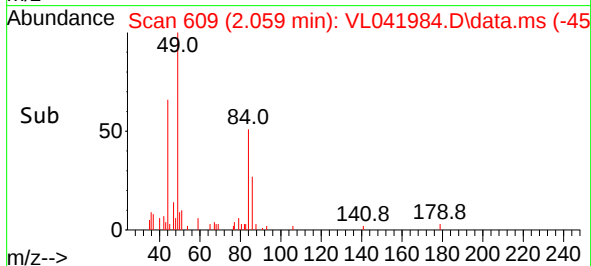


Tgt Ion: 84 Resp: 1302

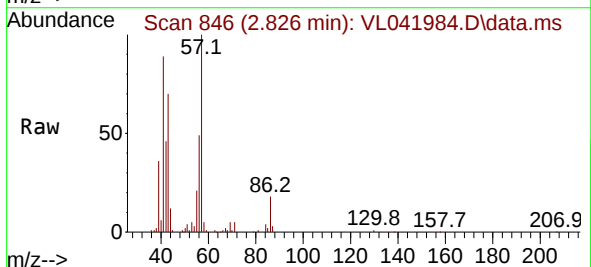
Ion	Ratio	Lower	Upper
84	100		
49	179.8	123.1	184.7
51	27.5	35.8	53.8
86	48.7	53.7	80.5

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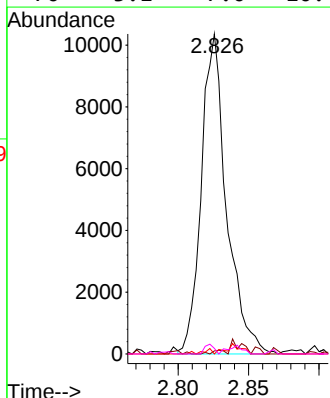
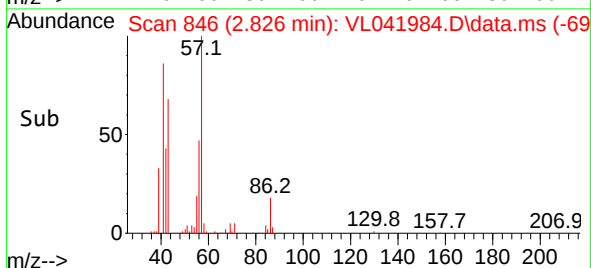


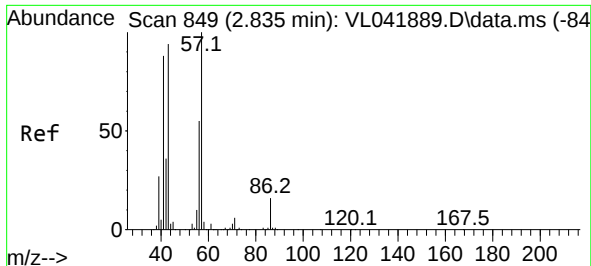
#25
Ethyl Acetate
Concen: 0.261 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.019 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06



Tgt Ion: 43 Resp: 12917

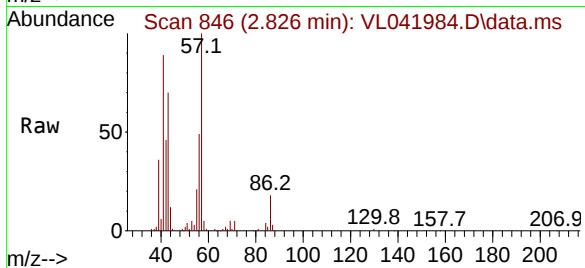
Ion	Ratio	Lower	Upper
43	100		
45	2.9	8.2	12.2
61	2.4	7.4	11.0
70	3.1	7.0	10.4





#26
Hexane
Concen: 0.796 ppbv
RT: 2.826 min Scan# 849
Delta R.T. -0.010 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

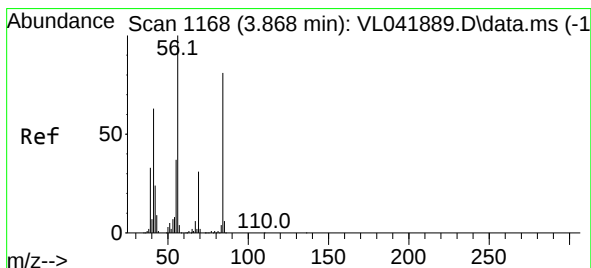
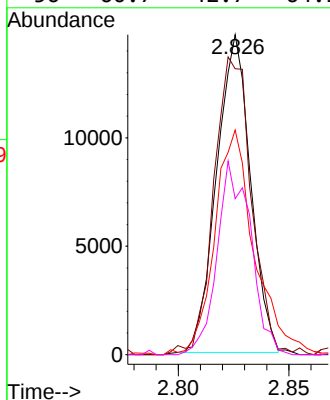
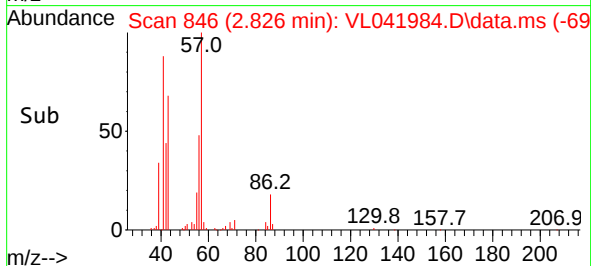
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



Tgt Ion: 57 Resp: 15562
Ion Ratio Lower Upper
57 100
41 104.5 73.8 110.8
43 83.4 197.3 295.9
56 60.7 42.7 64.1

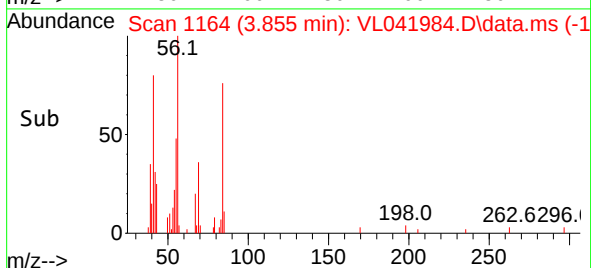
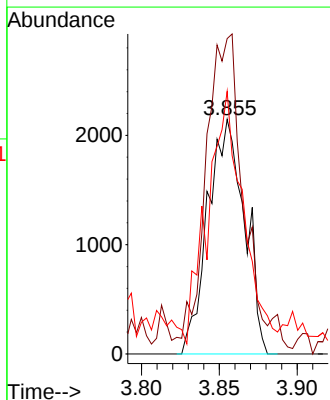
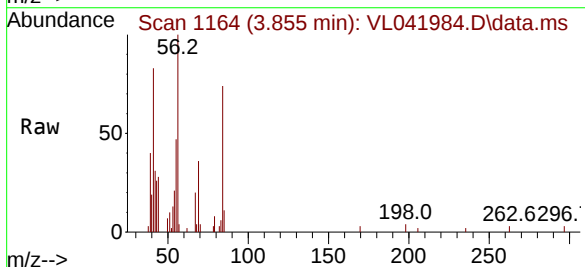
Manual Integrations
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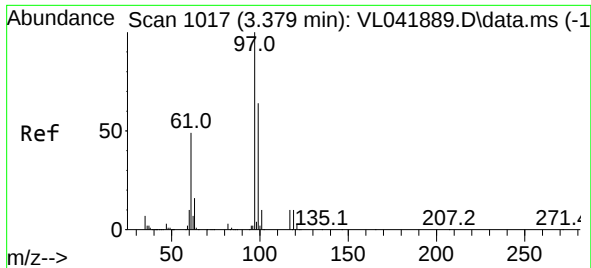
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#30
Cyclohexane
Concen: 0.208 ppbv m
RT: 3.855 min Scan# 1164
Delta R.T. -0.013 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

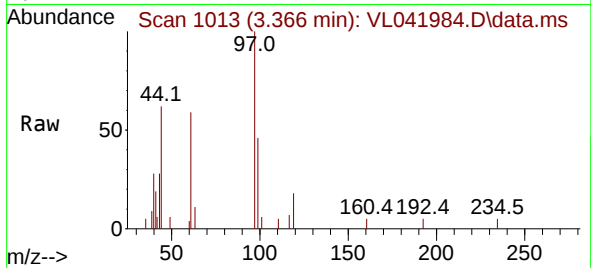
Tgt Ion: 84 Resp: 3523
Ion Ratio Lower Upper
84 100
56 159.7 99.3 148.9#
41 105.5 64.3 96.5#





#32
1,1,1-Trichloroethane
Concen: 0.046 ppbv m
RT: 3.366 min Scan# 1195
Delta R.T. -0.013 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

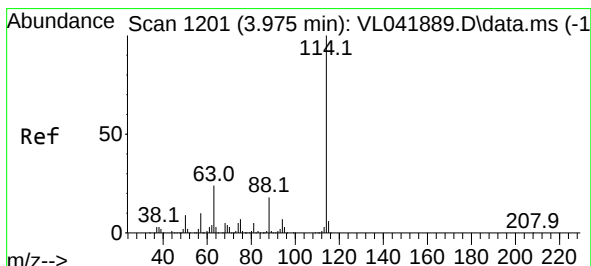
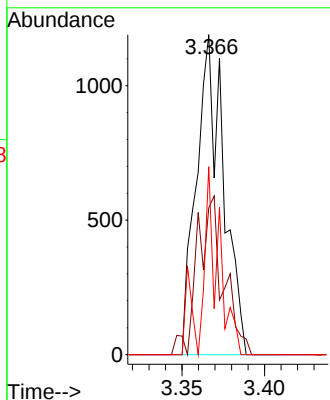
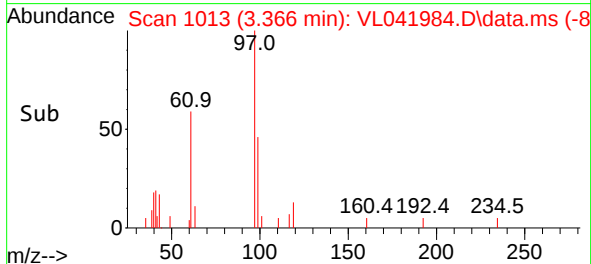
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



Tgt Ion: 97 Resp: 135
Ion Ratio Lower Upper
97 100
99 47.5 51.1 76.7
61 36.2 39.0 58.6

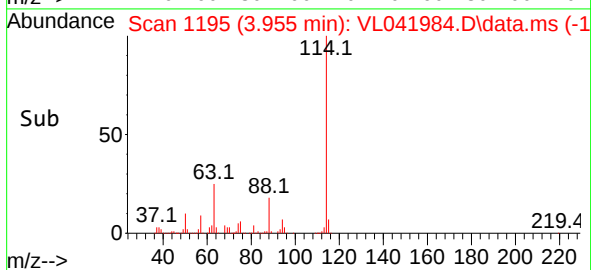
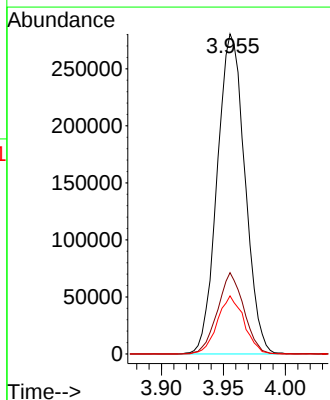
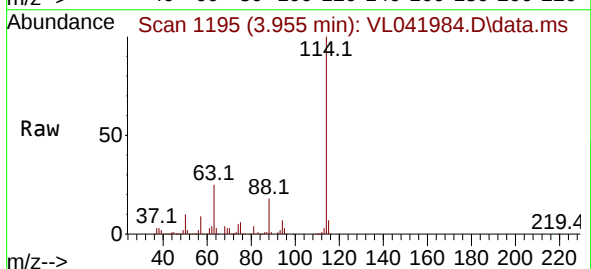
Manual Integrations
APPROVED

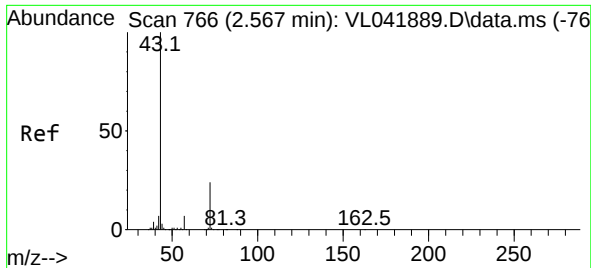
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.019 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

Tgt Ion:114 Resp: 437060
Ion Ratio Lower Upper
114 100
63 24.2 19.8 29.6
88 17.4 14.4 21.6





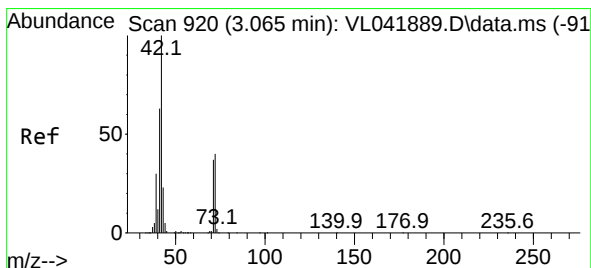
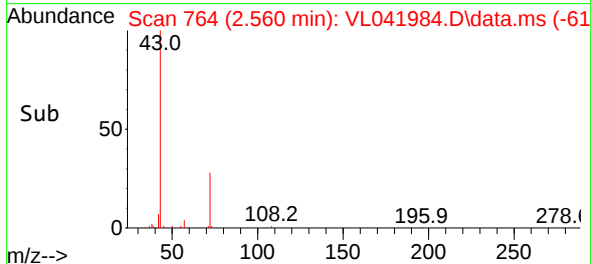
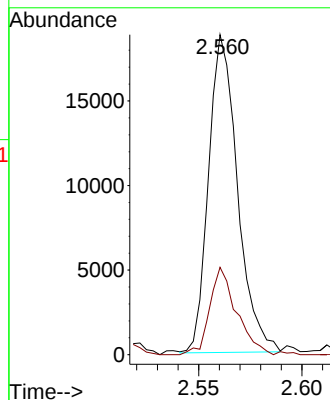
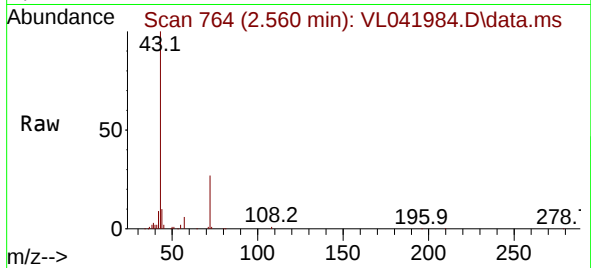
#34
2-Butanone
Concen: 0.659 ppbv
RT: 2.560 min Scan# 766
Delta R.T. -0.007 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion: 43 Resp: 1831
Ion Ratio Lower Upper
43 100
72 25.8 18.6 28.0

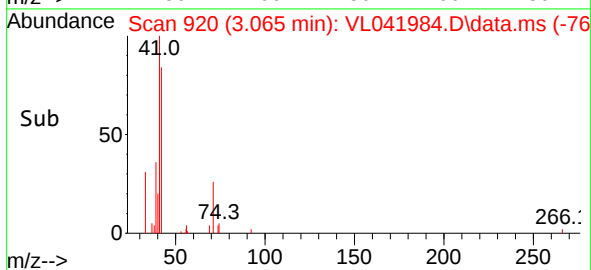
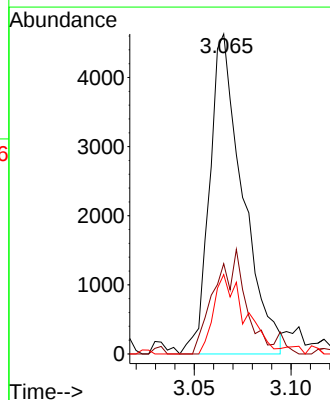
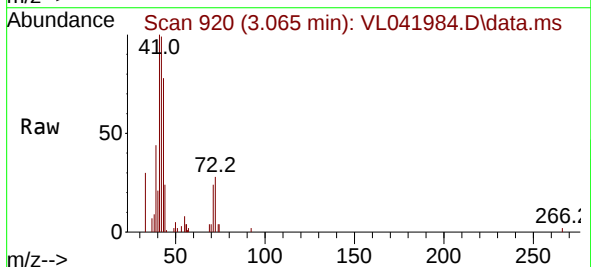
Manual Integrations
APPROVED

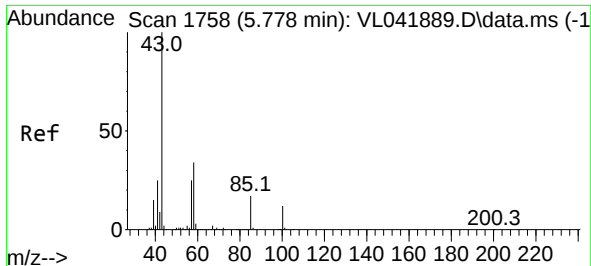
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#41
Tetrahydrofuran
Concen: 0.364 ppbv
RT: 3.065 min Scan# 920
Delta R.T. -0.000 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

Tgt Ion: 42 Resp: 5497
Ion Ratio Lower Upper
42 100
72 33.4 32.3 48.5
71 25.6 29.9 44.9#





#50

4-Methyl-2-Pentanone

Concen: 2.004 ppbv

RT: 5.755 min Scan# 1751

Delta R.T. -0.023 min

Lab File: VL041984.D

Acq: 10 Feb 2025 13:06

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion: 43 Resp: 7602

Ion Ratio Lower Upper

43 100

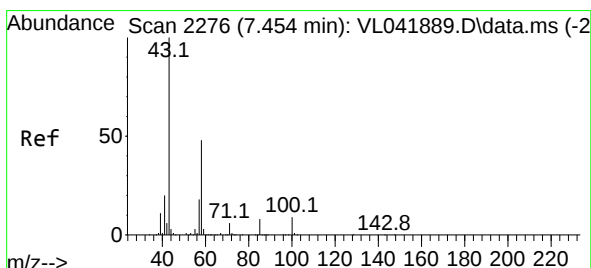
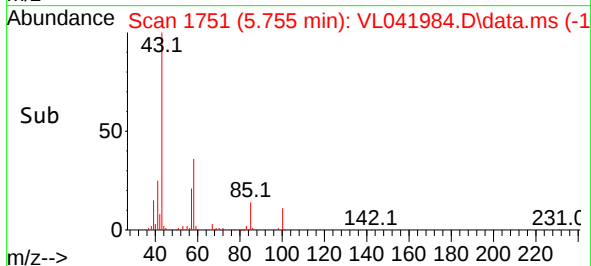
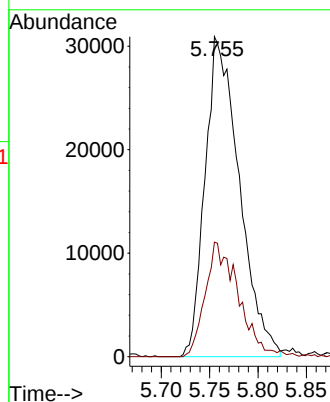
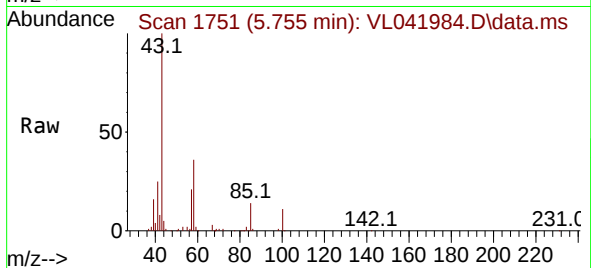
58 34.9 29.0 43.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#51

2-Hexanone

Concen: 0.581 ppbv m

RT: 7.448 min Scan# 2274

Delta R.T. -0.007 min

Lab File: VL041984.D

Acq: 10 Feb 2025 13:06

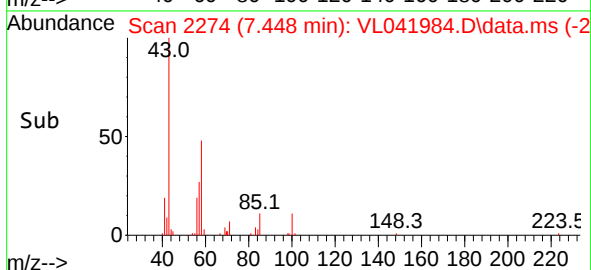
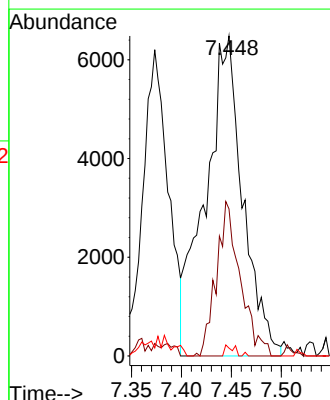
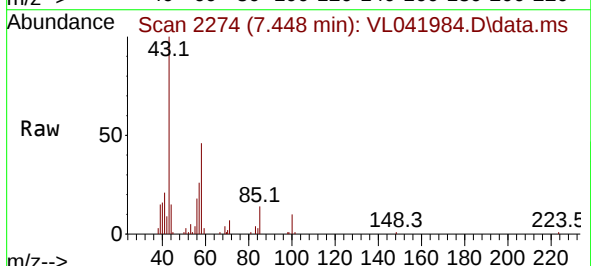
Tgt Ion: 43 Resp: 16952

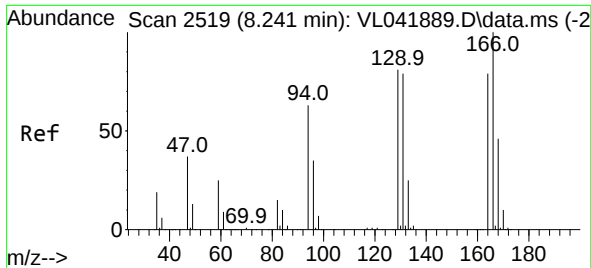
Ion Ratio Lower Upper

43 100

58 0.0 40.4 60.6#

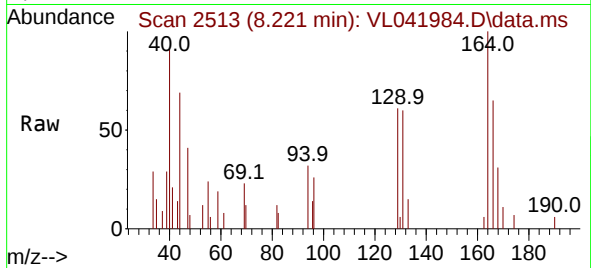
98 0.0 0.2 0.2#





#52
Tetrachloroethene
Concen: 0.077 ppbv m
RT: 8.221 min Scan# 2115
Delta R.T. -0.019 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

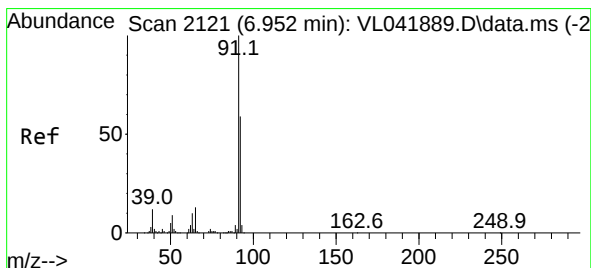
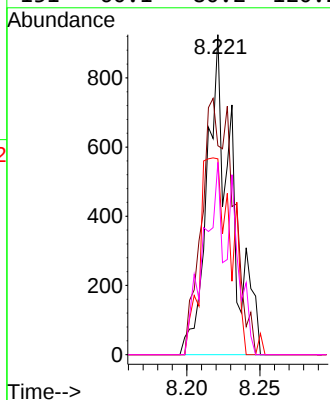
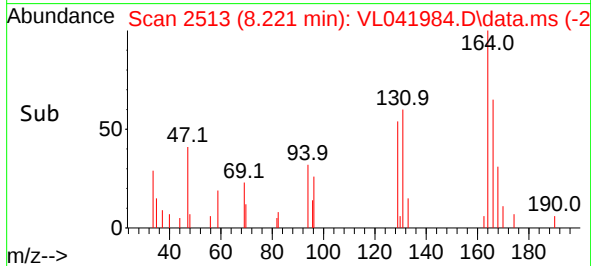
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



Tgt Ion:164 Resp: 1072
Ion Ratio Lower Upper
164 100
166 65.3 100.8 151.2
129 61.2 82.0 123.0
131 60.1 80.2 120.2

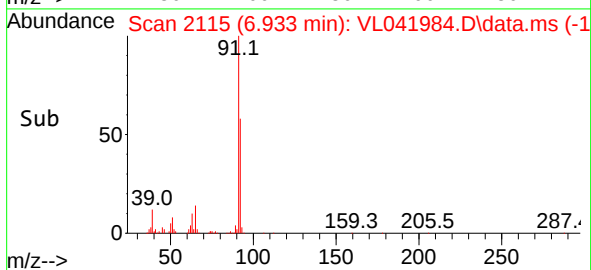
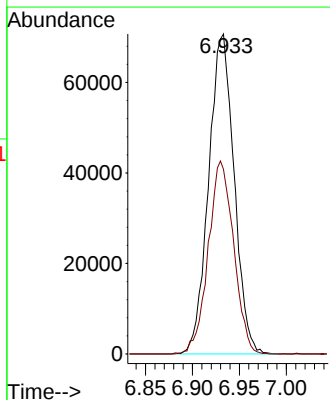
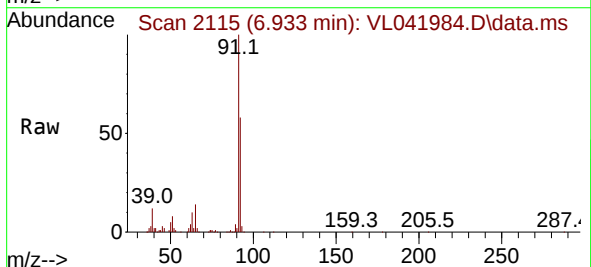
Manual Integrations
APPROVED

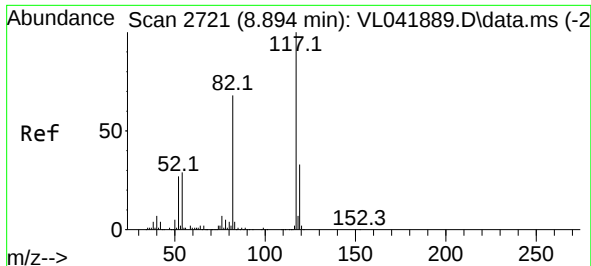
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#53
Toluene
Concen: 3.057 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.019 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

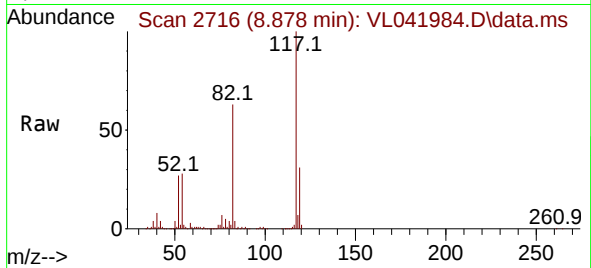
Tgt Ion: 91 Resp: 133503
Ion Ratio Lower Upper
91 100
92 60.1 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.016 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

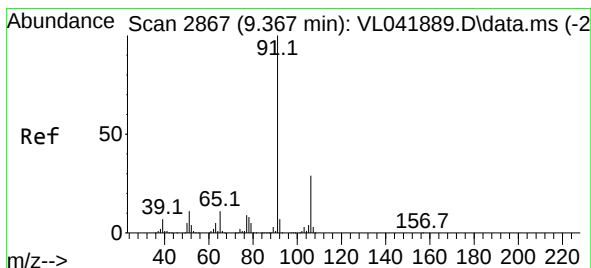
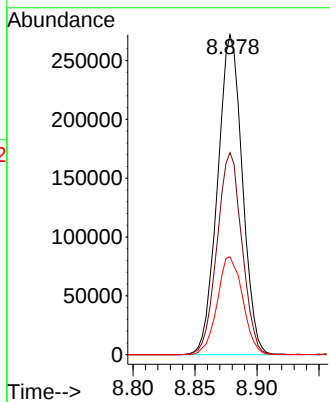
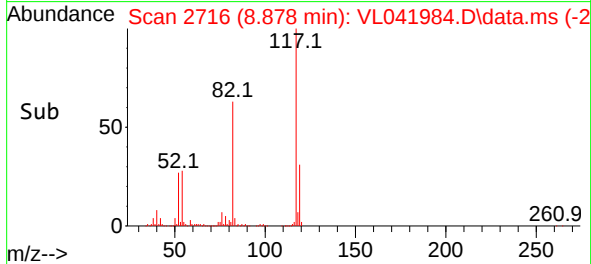
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



Tgt Ion:117 Resp: 379198
Ion Ratio Lower Upper
117 100
82 63.5 54.2 81.4
119 31.5 25.0 37.6

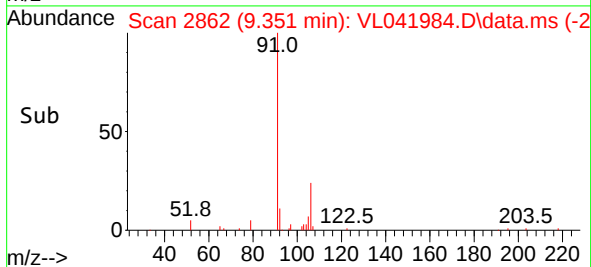
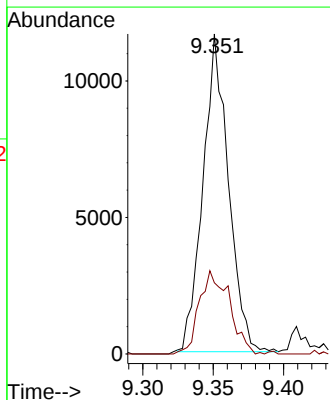
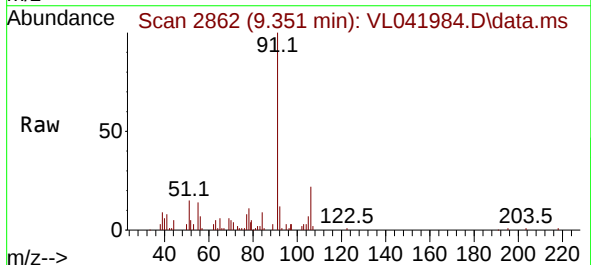
Manual Integrations
APPROVED

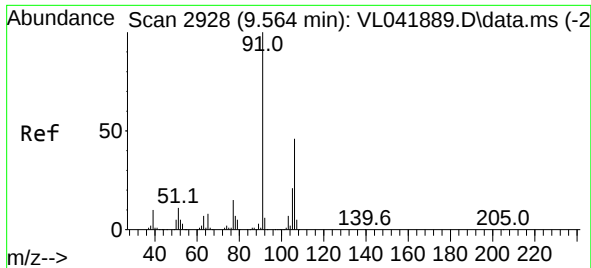
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#58
Ethyl Benzene
Concen: 0.247 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.016 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

Tgt Ion: 91 Resp: 14655
Ion Ratio Lower Upper
91 100
106 22.4 23.1 34.7#





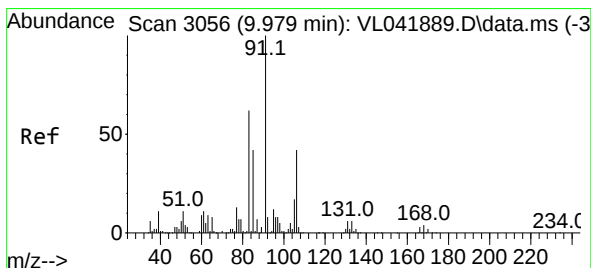
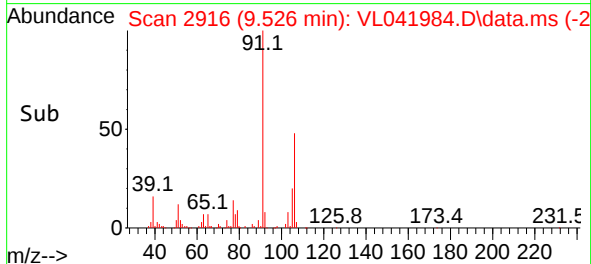
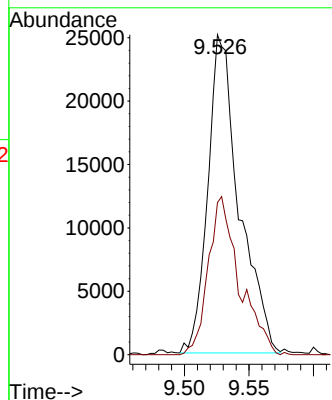
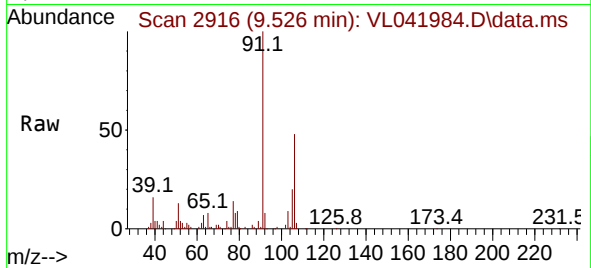
#59
m/p-Xylene
Concen: 0.896 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.039 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion: 91 Resp: 42554
Ion Ratio Lower Upper
91 100
106 49.4 36.0 54.0

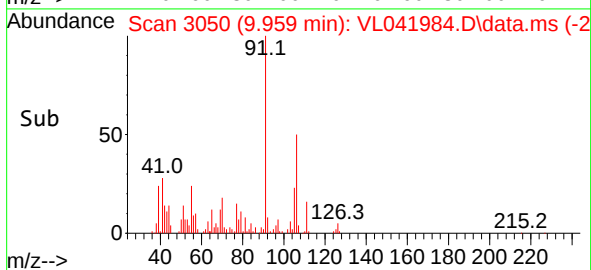
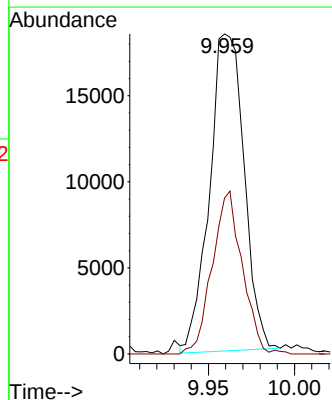
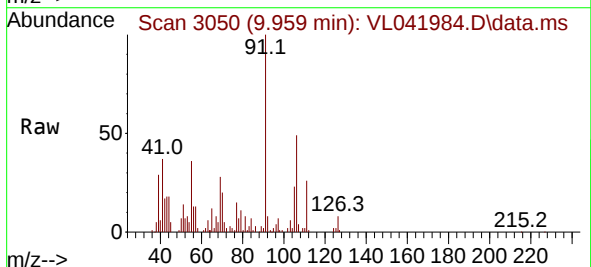
Manual Integrations
APPROVED

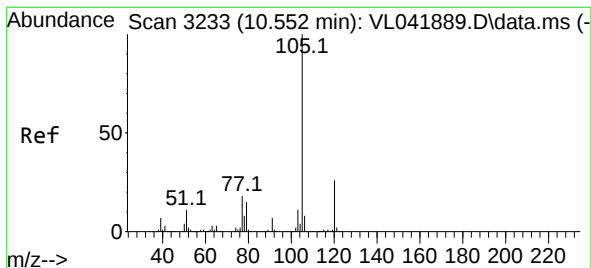
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#60
o-Xylene
Concen: 0.546 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.019 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

Tgt Ion: 91 Resp: 25754
Ion Ratio Lower Upper
91 100
106 44.8 21.3 63.9





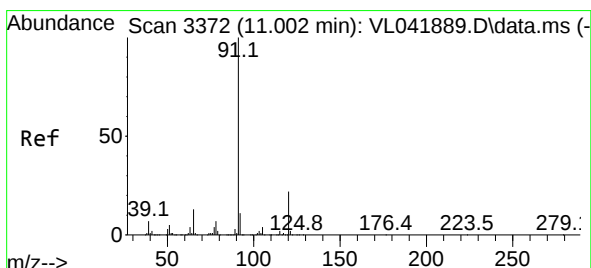
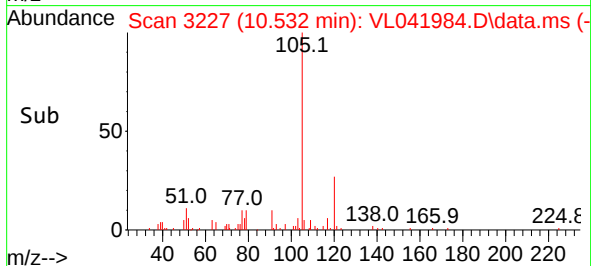
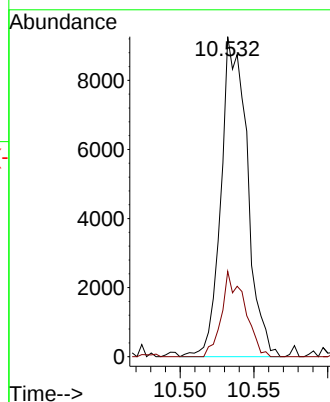
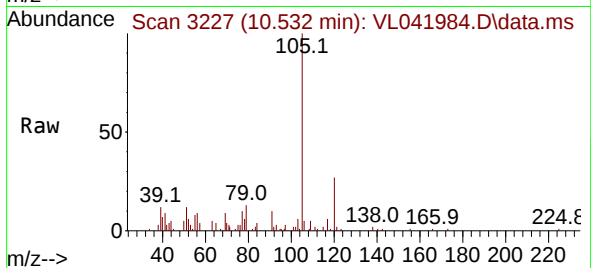
#62
Isopropylbenzene
Concen: 0.157 ppbv
RT: 10.532 min Scan# 311
Delta R.T. -0.019 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion:105 Resp: 1148
Ion Ratio Lower Upper
105 100
120 23.4 20.3 30.5

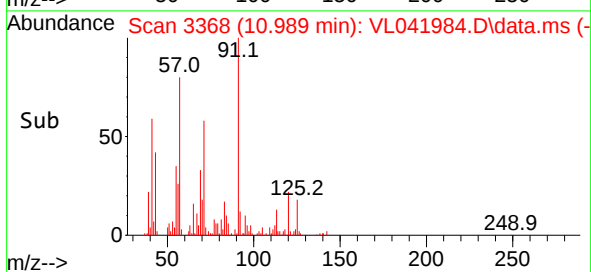
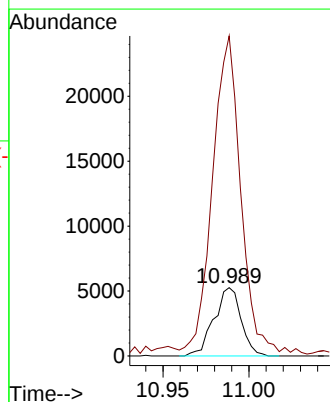
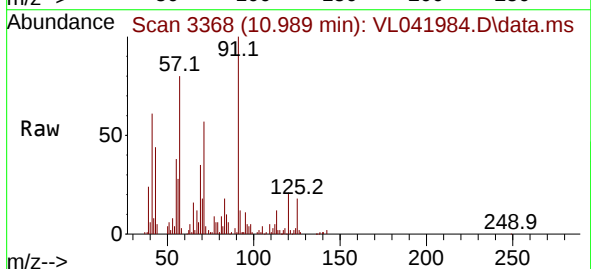
Manual Integrations
APPROVED

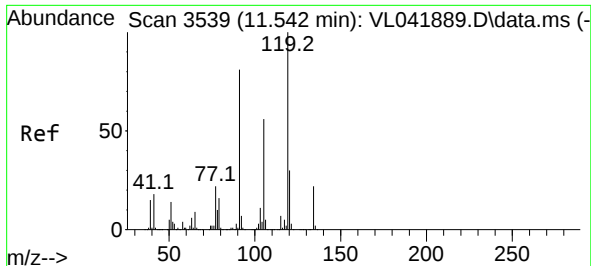
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#64
n-propylbenzene
Concen: 0.312 ppbv m
RT: 10.989 min Scan# 3368
Delta R.T. -0.013 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

Tgt Ion:120 Resp: 5760
Ion Ratio Lower Upper
120 100
91 0.0 374.1 561.1#





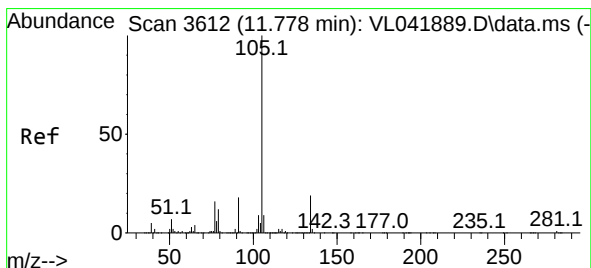
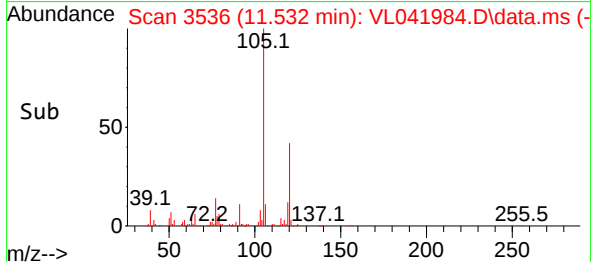
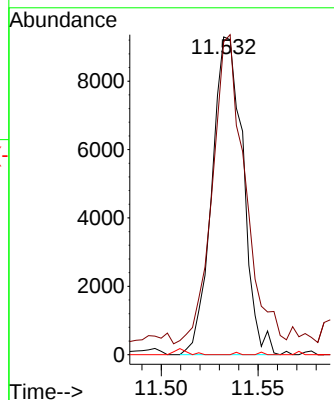
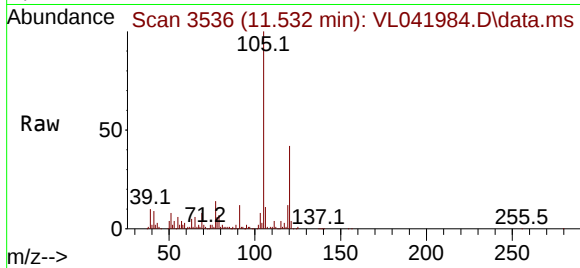
#65
tert-Butylbenzene
Concen: 0.156 ppbv
RT: 11.532 min Scan# 31
Delta R.T. -0.010 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion:119 Resp: 10354
Ion Ratio Lower Upper
119 100
91 103.9 64.6 97.0
134 0.0 16.8 25.2

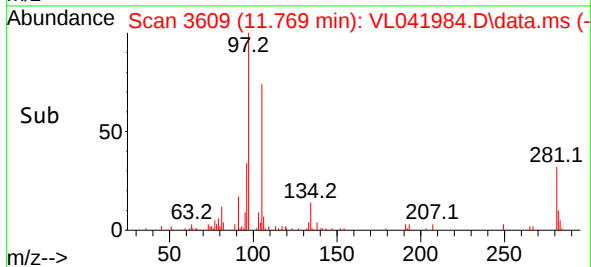
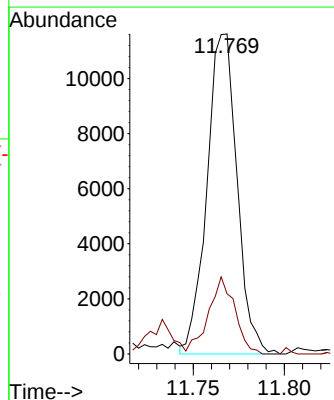
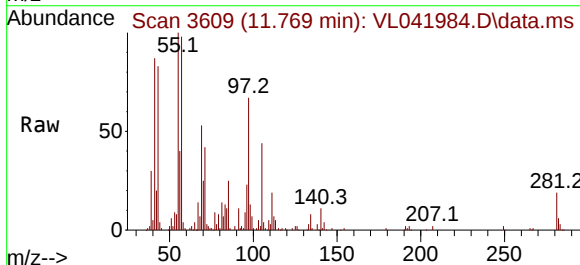
Manual Integrations
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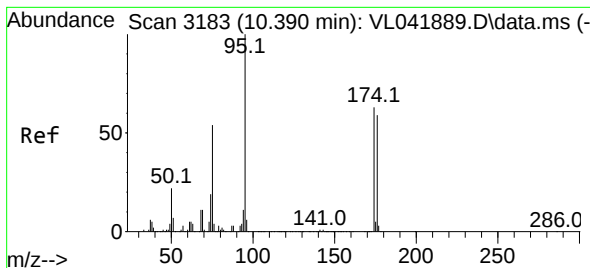
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#67
sec-Butylbenzene
Concen: 0.146 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. -0.010 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

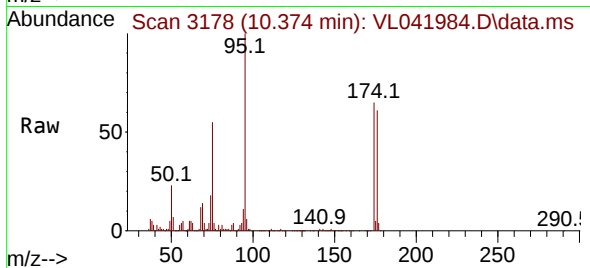
Tgt Ion:105 Resp: 13343
Ion Ratio Lower Upper
105 100
134 21.2 15.1 22.7





#68
1-Bromo-4-Fluorobenzene
Concen: 9.724 ppbv
RT: 10.374 min Scan# 3183
Delta R.T. -0.016 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06

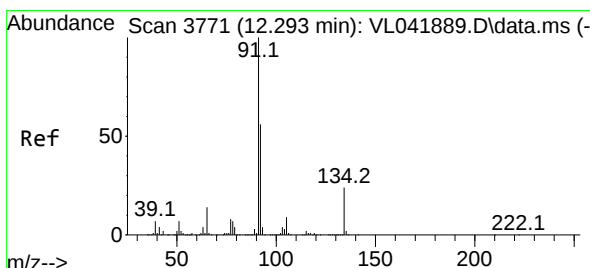
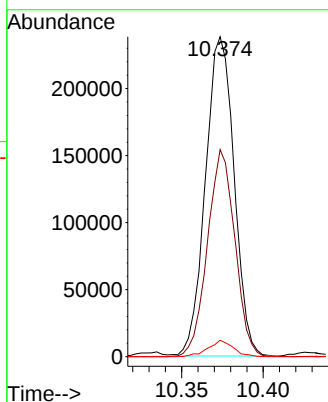
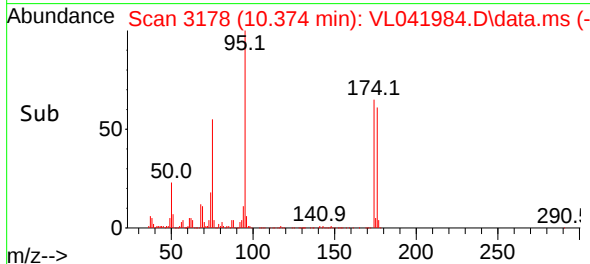
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



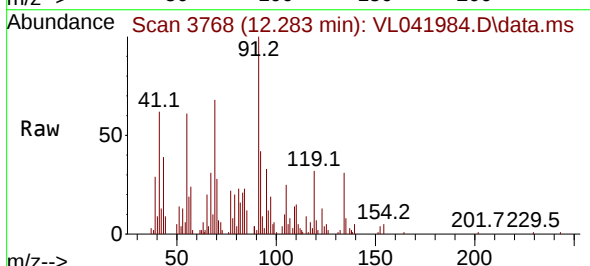
Tgt Ion: 95 Resp: 290420
Ion Ratio Lower Upper
95 100
174 62.3 49.0 73.4
175 4.5 3.8 5.8

Manual Integrations
APPROVED

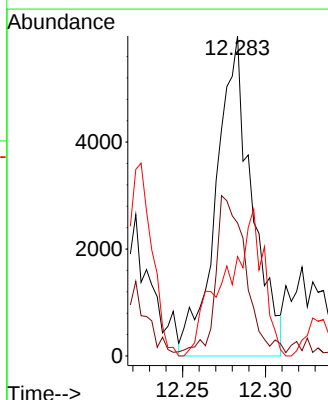
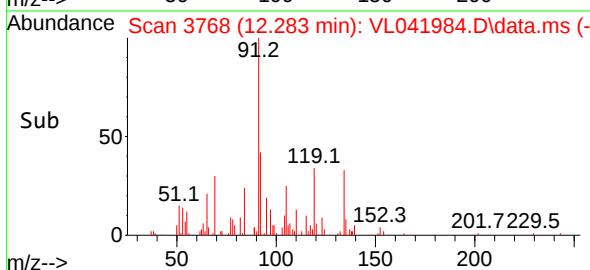
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

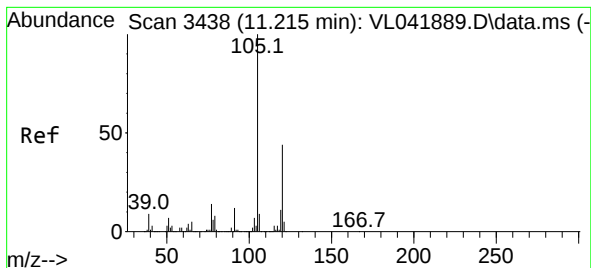


#70
n-Butylbenzene
Concen: 0.120 ppbv m
RT: 12.283 min Scan# 3768
Delta R.T. -0.010 min
Lab File: VL041984.D
Acq: 10 Feb 2025 13:06



Tgt Ion: 91 Resp: 8970
Ion Ratio Lower Upper
91 100
92 0.0 43.8 65.6#
134 0.0 19.0 28.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.579 ppbv

RT: 11.202 min Scan# 3438

Delta R.T. -0.013 min

Lab File: VL041984.D

Acq: 10 Feb 2025 13:06

Instrument :

MSVOA_L

ClientSampleId :

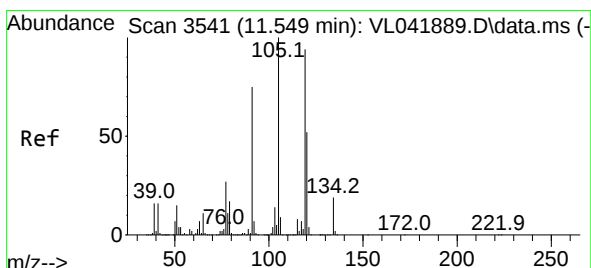
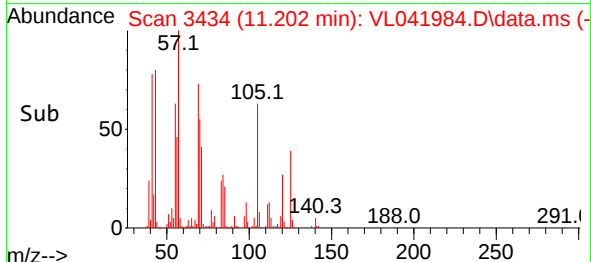
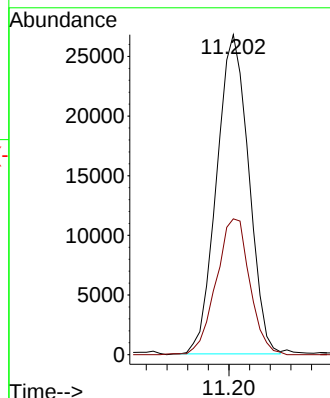
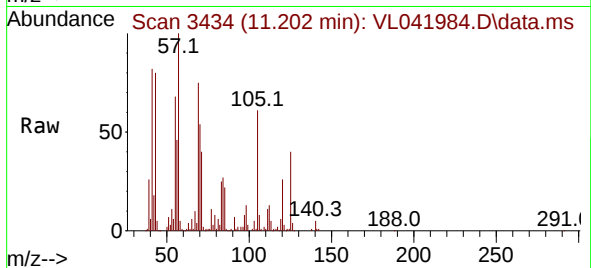
SV2DL

Tgt Ion:105 Resp: 28815
 Ion Ratio Lower Upper
 105 100
 120 42.2 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025



#74

1,2,4-Trimethylbenzene

Concen: 1.564 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.013 min

Lab File: VL041984.D

Acq: 10 Feb 2025 13:06

Tgt Ion:105 Resp: 84353
 Ion Ratio Lower Upper
 105 100
 120 45.5 41.4 62.2
 91 11.5 60.2 90.2#
 77 14.3 22.0 33.0#

