

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042284.D
 Acq On : 09 Apr 2025 03:22
 Operator : SY/MD
 Sample : Q1728-03 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-2-04022025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 05:23:08 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

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	156706	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	394605	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	369232	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	337277	11.123	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.200%
Target Compounds						
					Qvalue	
9) Propene	1.483	41	3071	0.283	ppbv #	81
10) Heptane	4.985	43	9496m	0.330	ppbv	
13) Ethanol	1.719	45	1188m	1.160	ppbv	
15) Acetone	1.835	43	54597	2.491	ppbv	94
20) Methylene Chloride	2.059	84	2997	0.367	ppbv #	85
27) Carbon Disulfide	2.149	76	14783	0.627	ppbv #	27
30) Cyclohexane	3.855	84	13277m	0.696	ppbv	
34) 2-Butanone	2.560	43	5000	0.175	ppbv	96
53) Toluene	6.933	91	26400	0.569	ppbv	99
58) Ethyl Benzene	9.364	91	76723	1.170	ppbv	99
59) m/p-Xylene	9.539	91	667927m	12.754	ppbv	
60) o-Xylene	9.966	91	523601	9.973	ppbv	97
62) Isopropylbenzene	10.542	105	95094	1.211	ppbv	98
65) tert-Butylbenzene	11.536	119	44016	0.606	ppbv #	78
69) p-Isopropyltoluene	11.927	119	10964	0.126	ppbv	93
72) 4-Ethyltoluene	11.128	105	121091	1.852	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.205	105	259320	4.542	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	351232	5.340	ppbv #	65

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

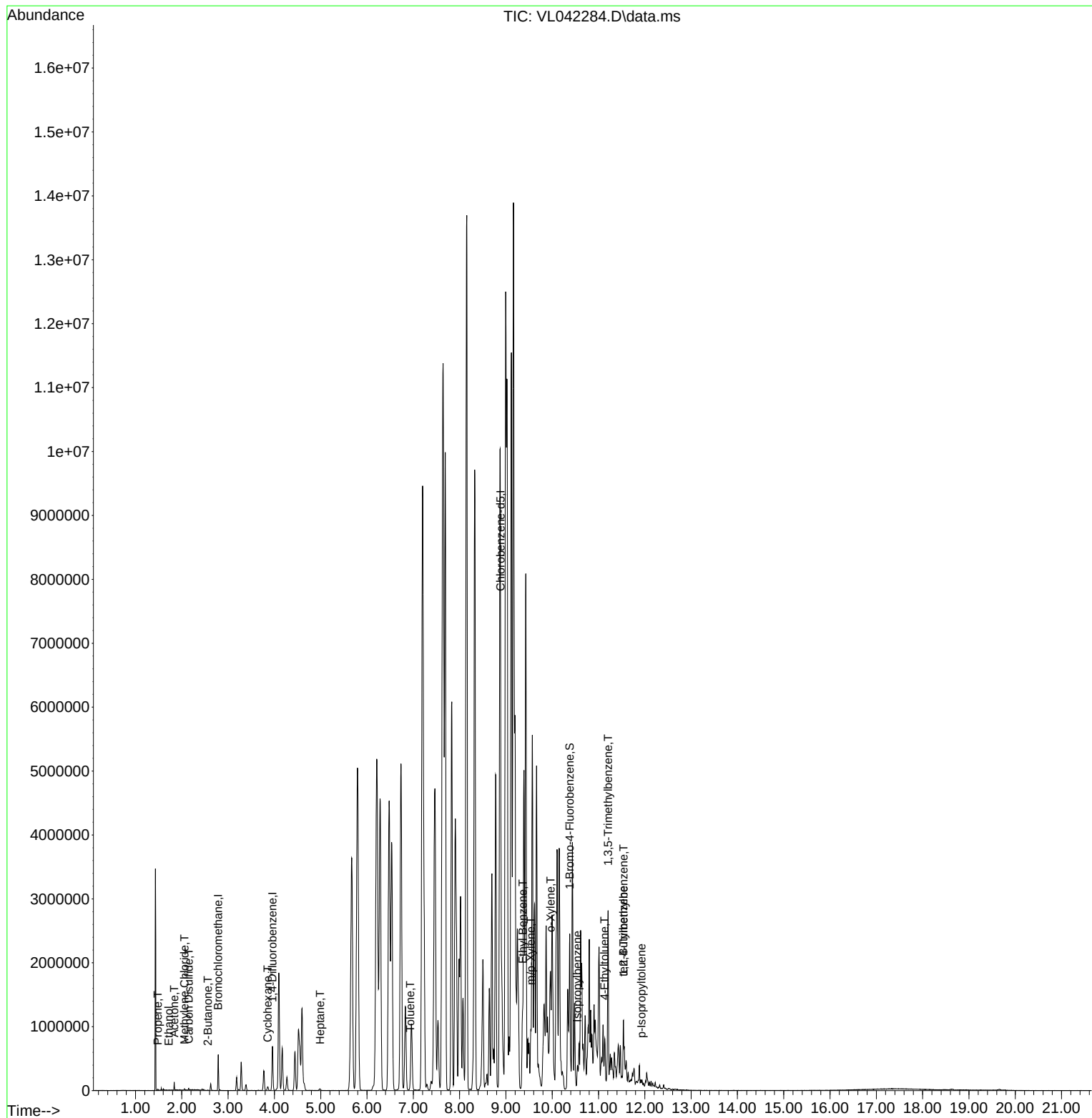
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042284.D
Acq On : 09 Apr 2025 03:22
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Sample : Q1728-03 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

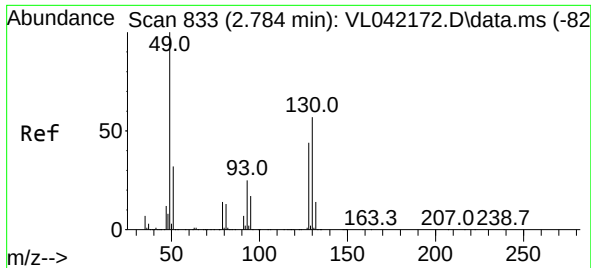
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

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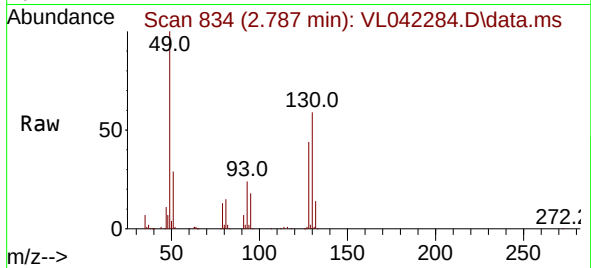
Quant Time: Apr 09 05:23:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

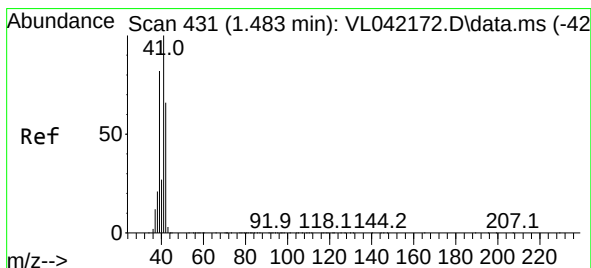
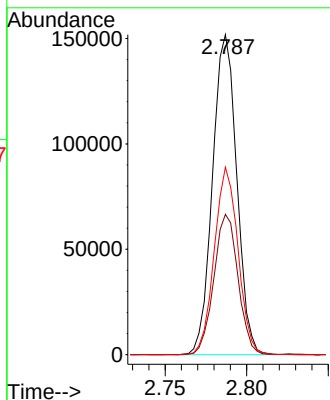
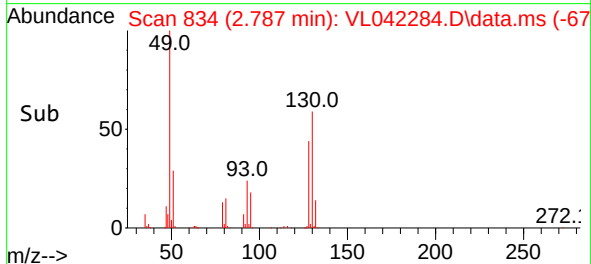
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



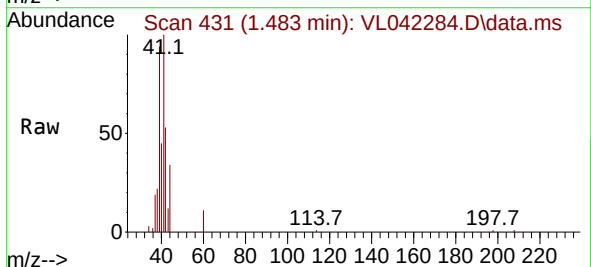
Tgt Ion: 49 Resp: 156700
Ion Ratio Lower Upper
49 100
128 43.8 22.9 68.5
130 57.5 28.8 86.4

Manual Integrations
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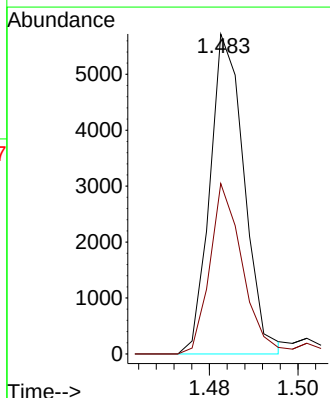
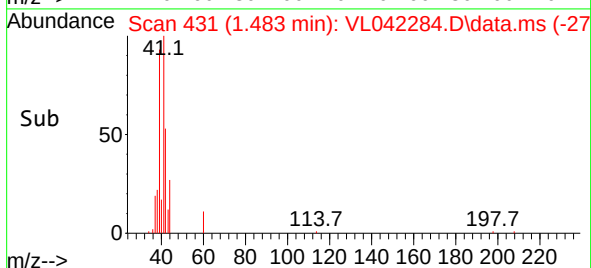
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

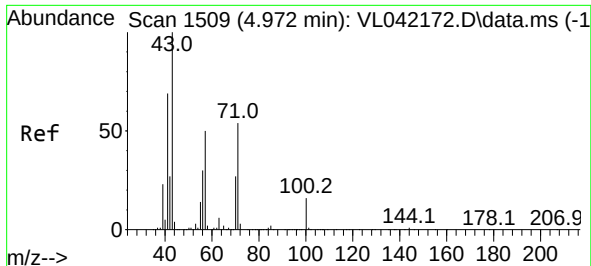


#9
Propene
Concen: 0.283 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22



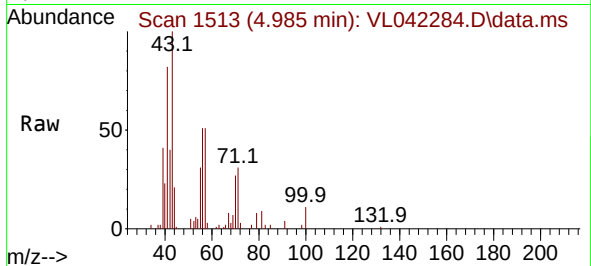
Tgt Ion: 41 Resp: 3071
Ion Ratio Lower Upper
41 100
42 53.9 55.4 83.2#





#10
Heptane
Concen: 0.330 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. 0.013 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

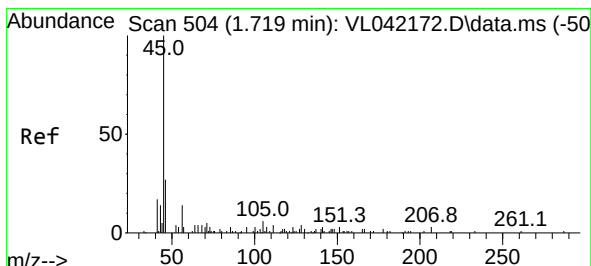
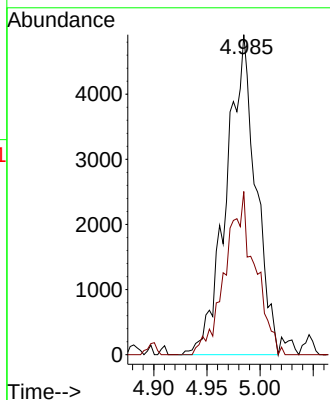
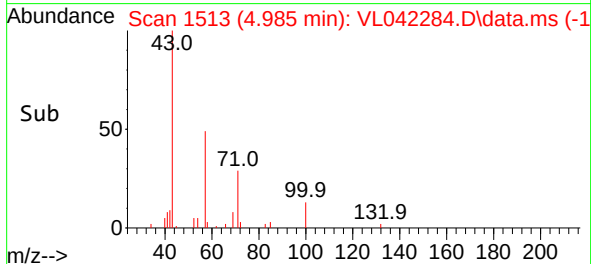
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



Tgt Ion: 43 Resp: 9490
Ion Ratio Lower Upper
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57 51.1 39.4 59.2

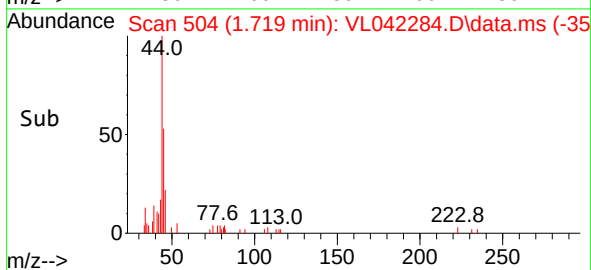
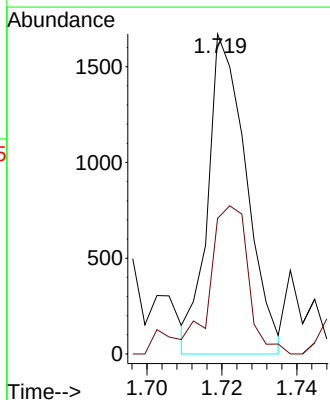
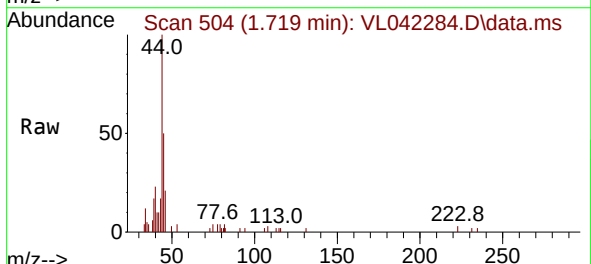
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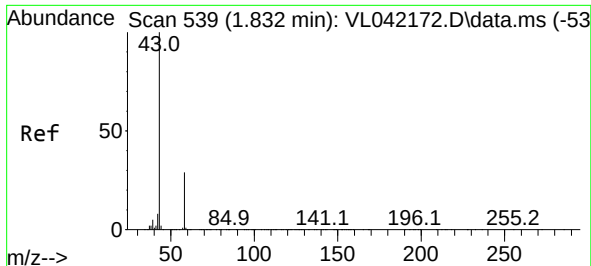
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 1.160 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 45 Resp: 1188
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#





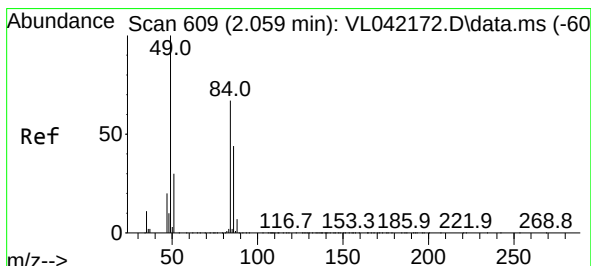
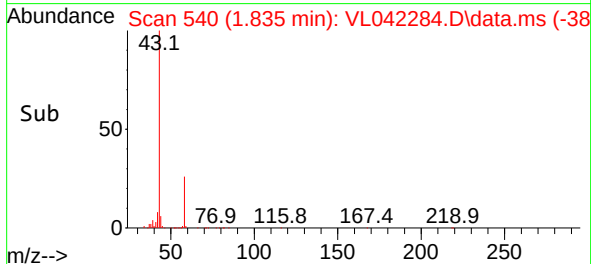
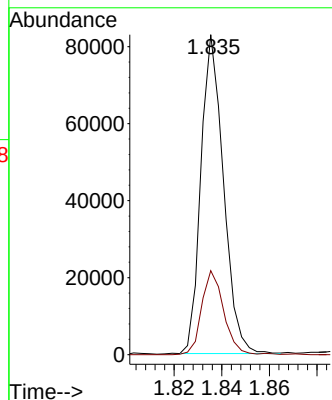
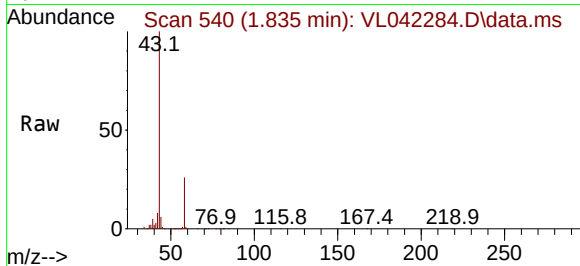
#15
Acetone
Concen: 2.491 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

Tgt Ion: 43 Resp: 5459
Ion Ratio Lower Upper
43 100
58 26.0 23.2 34.8

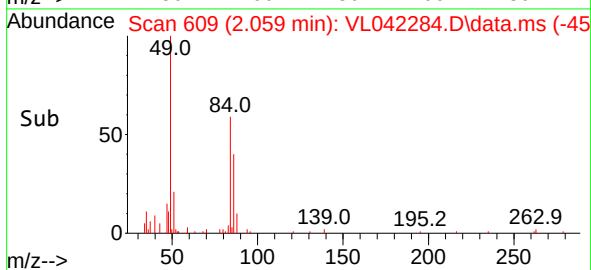
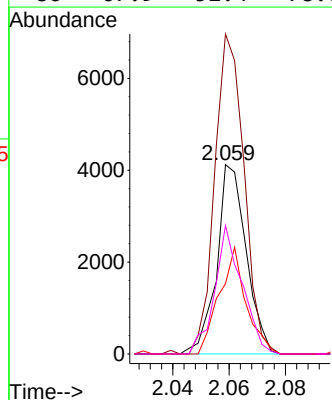
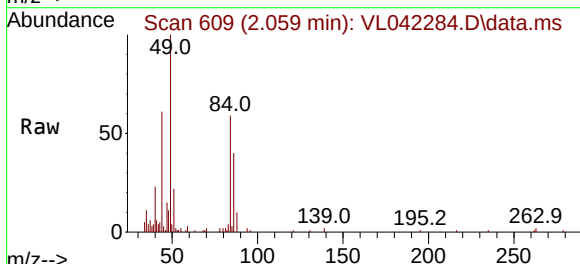
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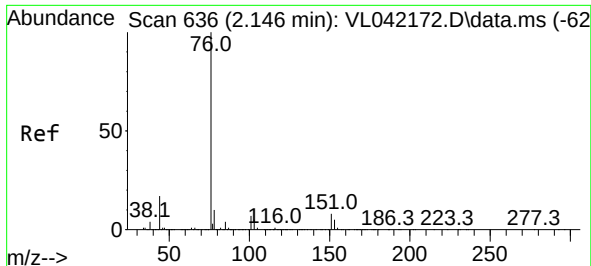
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#20
Methylene Chloride
Concen: 0.367 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

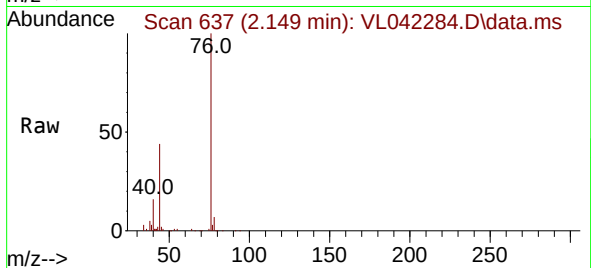
Tgt Ion: 84 Resp: 2997
Ion Ratio Lower Upper
84 100
49 176.5 120.2 180.4
51 37.1 37.4 56.0#
86 67.9 52.4 78.6





#27
Carbon Disulfide
Concen: 0.627 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

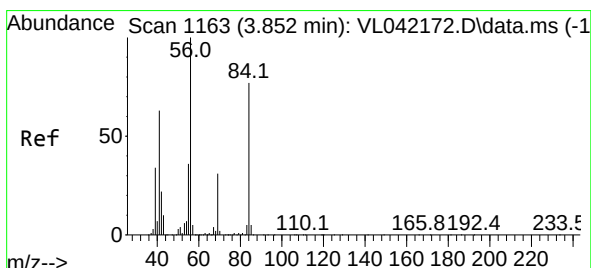
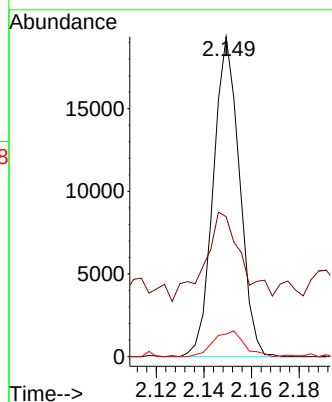
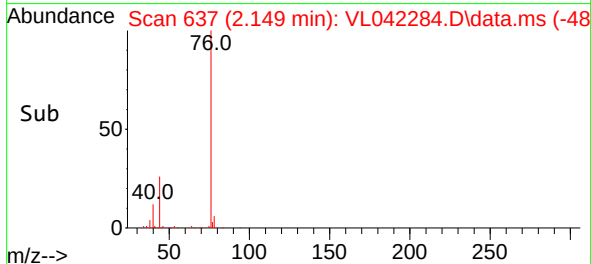
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



Tgt Ion: 76 Resp: 14783
Ion Ratio Lower Upper
76 100
44 70.3 14.7 22.1#
78 9.7 9.3 13.9

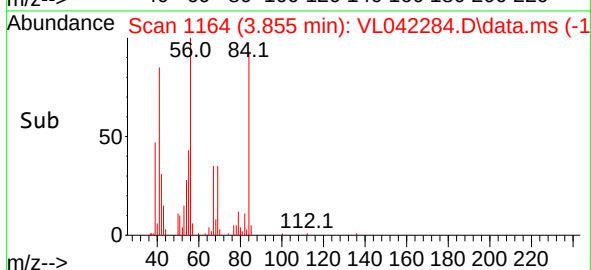
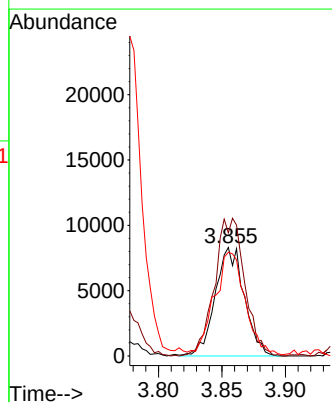
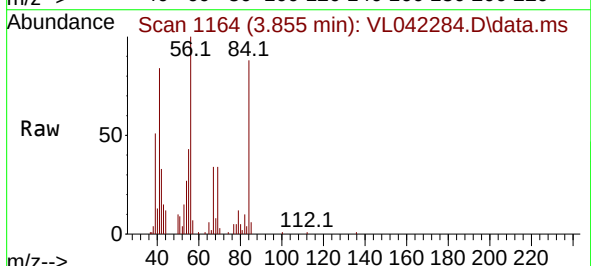
Manual Integrations
APPROVED

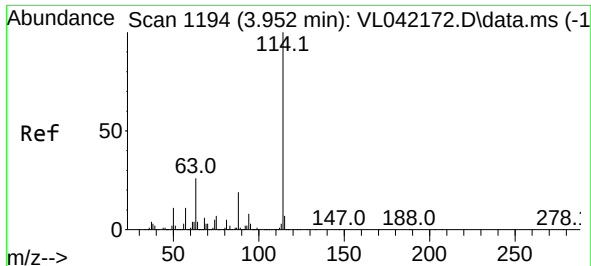
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#30
Cyclohexane
Concen: 0.696 ppbv m
RT: 3.855 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 84 Resp: 13277
Ion Ratio Lower Upper
84 100
56 0.0 102.8 154.2#
41 0.0 66.5 99.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042284.D

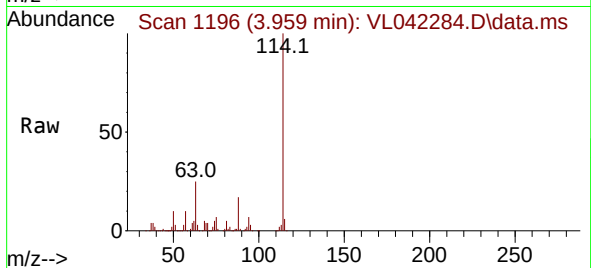
Acq: 09 Apr 2025 03:22

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-2-04022025



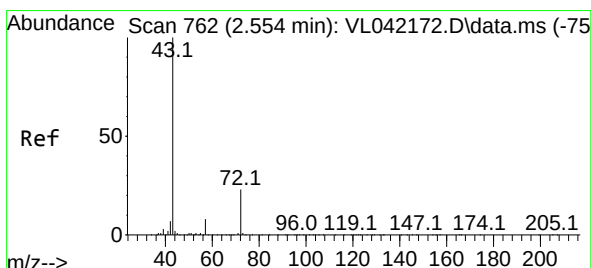
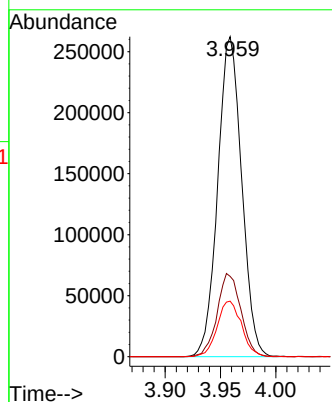
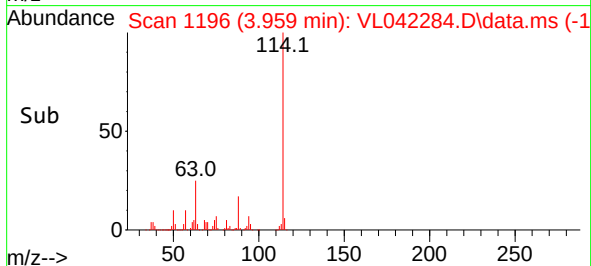
Tgt Ion: 114 Resp: 39460

Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.7	31.1
88	17.6	15.0	22.4

Manual Integrations

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Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#34

2-Butanone

Concen: 0.175 ppbv

RT: 2.560 min Scan# 764

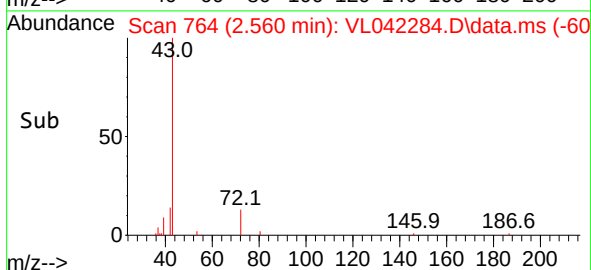
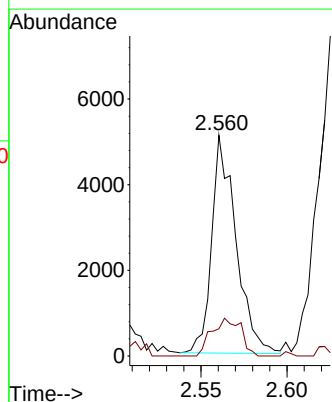
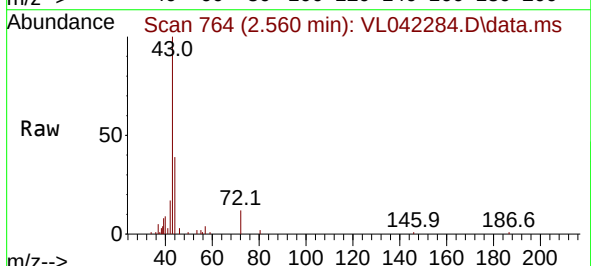
Delta R.T. 0.006 min

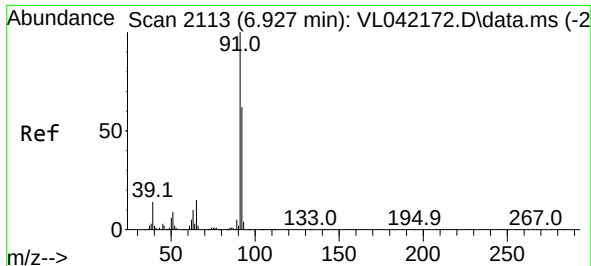
Lab File: VL042284.D

Acq: 09 Apr 2025 03:22

Tgt Ion: 43 Resp: 5000

Ion	Ratio	Lower	Upper
43	100		
72	20.8	18.2	27.2





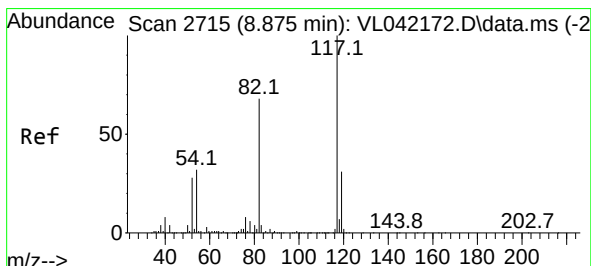
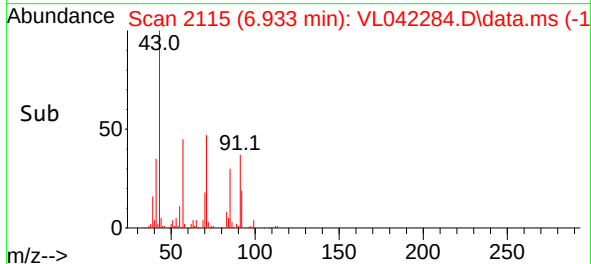
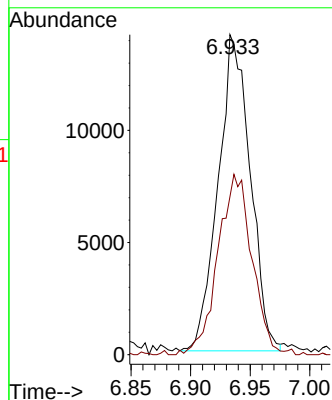
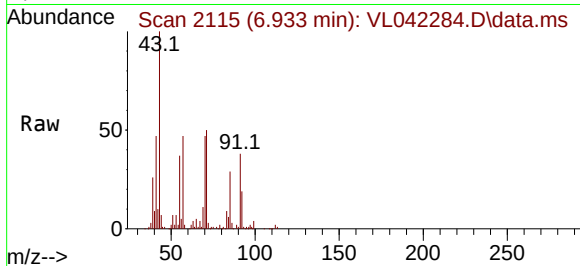
#53
Toluene
Concen: 0.569 ppbv
RT: 6.933 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

Tgt Ion: 91 Resp: 26400
Ion Ratio Lower Upper
91 100
92 61.2 48.4 72.6

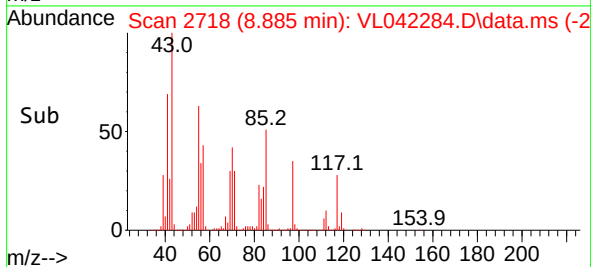
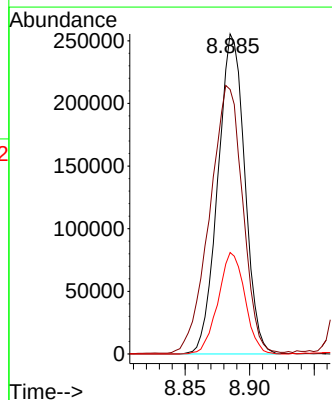
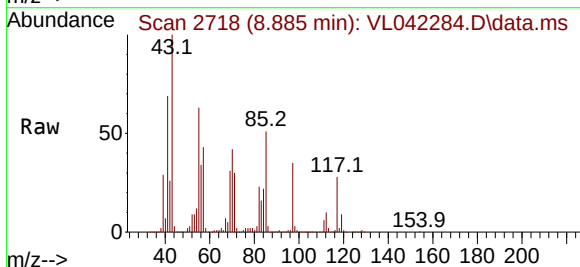
Manual Integrations
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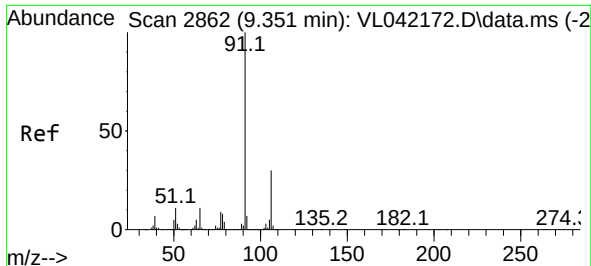
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.009 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion:117 Resp: 369232
Ion Ratio Lower Upper
117 100
82 102.9 55.8 83.6#
119 31.6 25.5 38.3





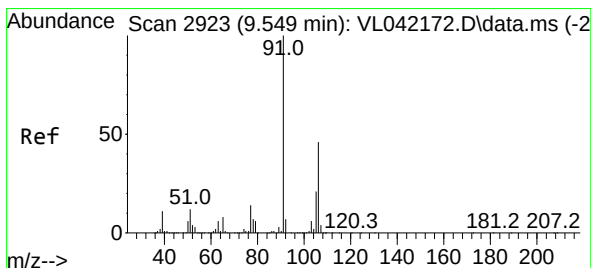
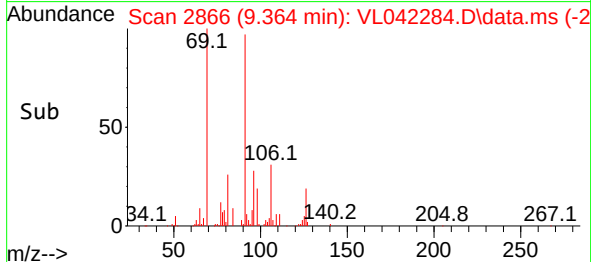
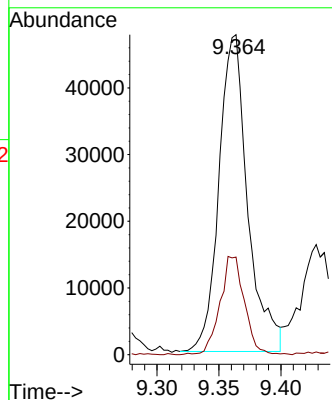
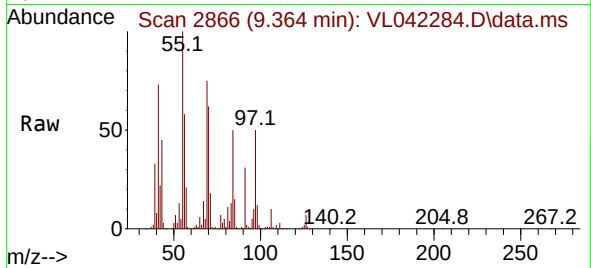
#58
Ethyl Benzene
Concen: 1.170 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.013 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

Tgt Ion: 91 Resp: 76723
Ion Ratio Lower Upper
91 100
106 30.8 24.2 36.2

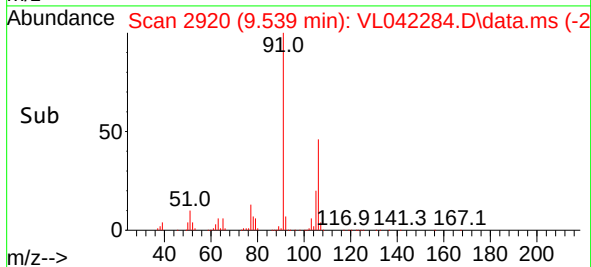
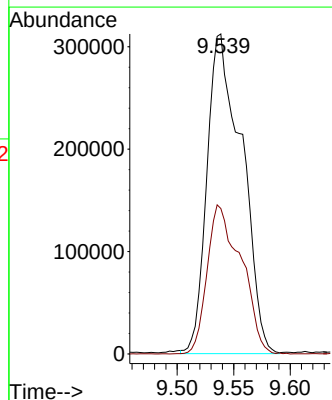
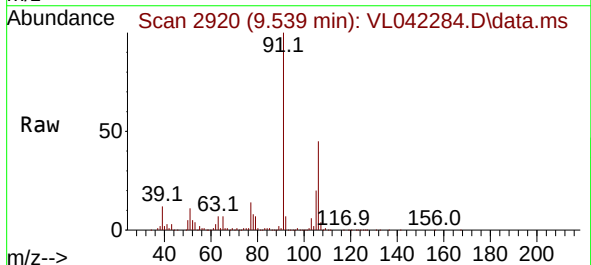
Manual Integrations
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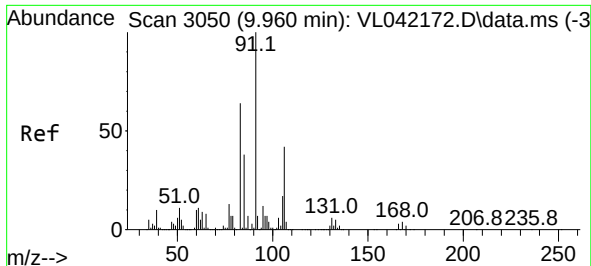
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#59
m/p-Xylene
Concen: 12.754 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. -0.010 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

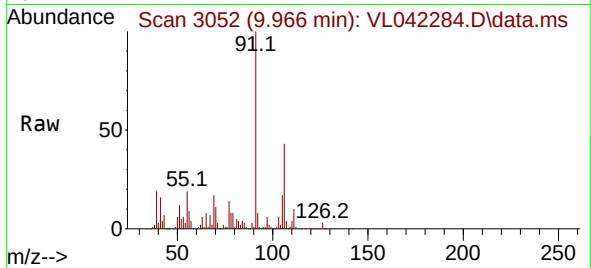
Tgt Ion: 91 Resp: 667927
Ion Ratio Lower Upper
91 100
106 45.6 36.4 54.6





#60
o-Xylene
Concen: 9.973 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

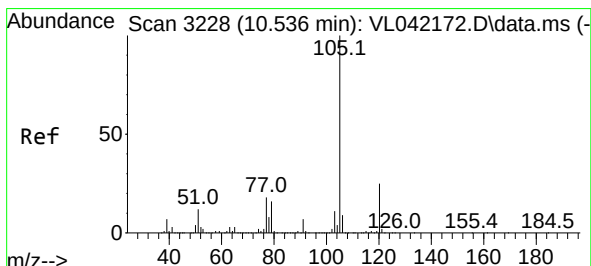
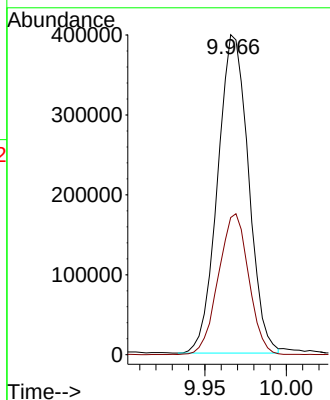
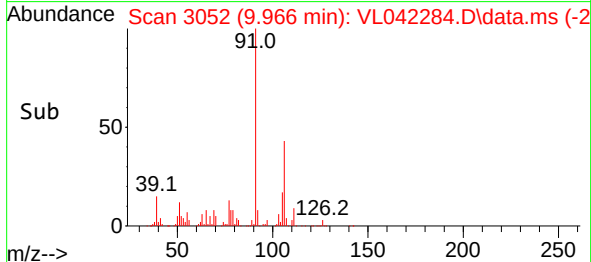
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



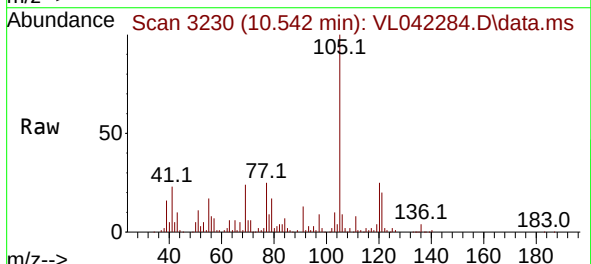
Tgt Ion: 91 Resp: 52360
Ion Ratio Lower Upper
91 100
106 43.5 20.8 62.5

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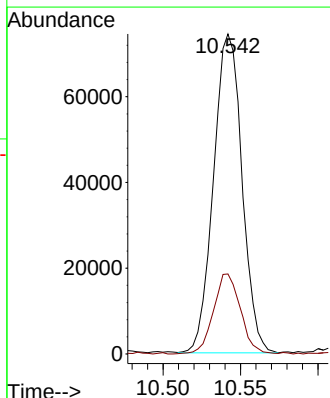
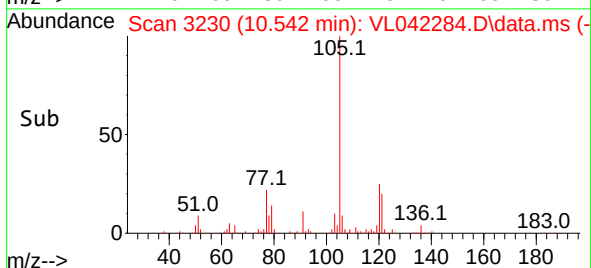
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

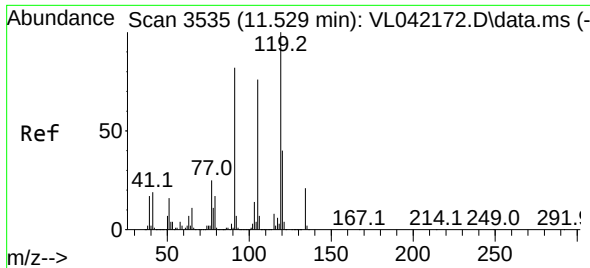


#62
Isopropylbenzene
Concen: 1.211 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22



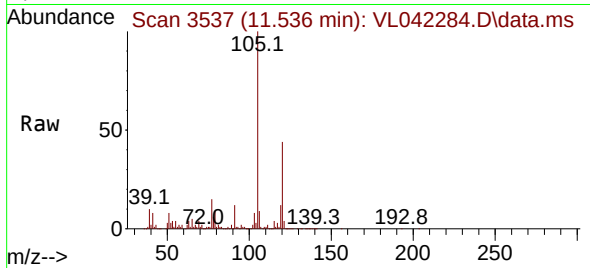
Tgt Ion:105 Resp: 95094
Ion Ratio Lower Upper
105 100
120 24.0 19.9 29.9





#65
tert-Butylbenzene
Concen: 0.606 ppbv
RT: 11.536 min Scan# 3535
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

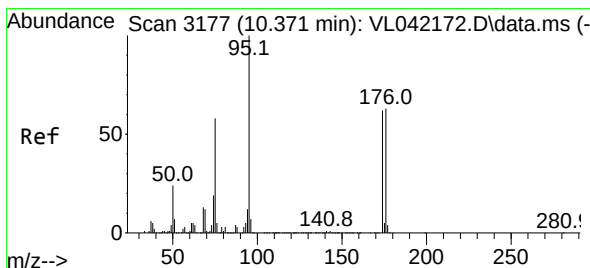
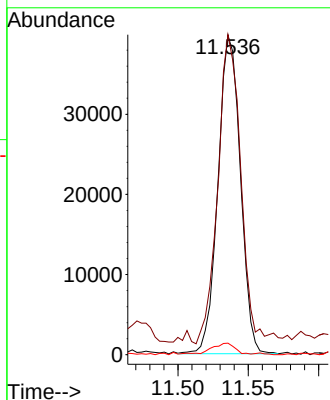
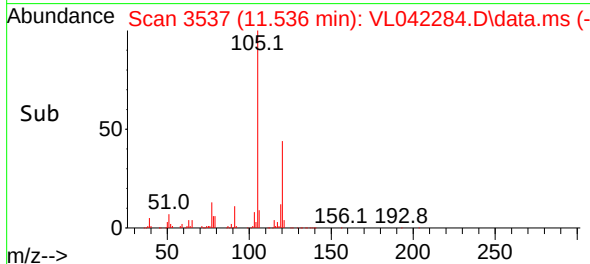
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-2-04022025



Tgt Ion: 119 Resp: 44010
Ion Ratio Lower Upper
119 100
91 99.4 66.0 99.0
134 4.6 16.7 25.1

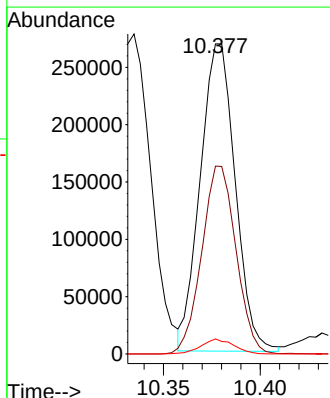
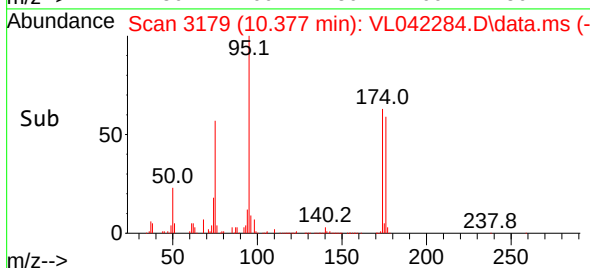
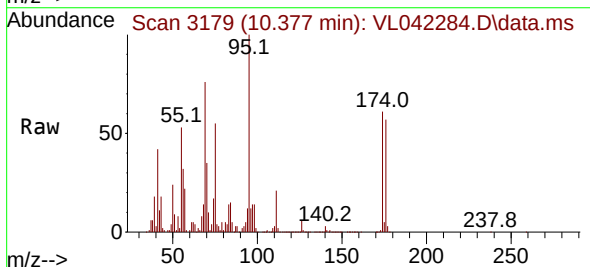
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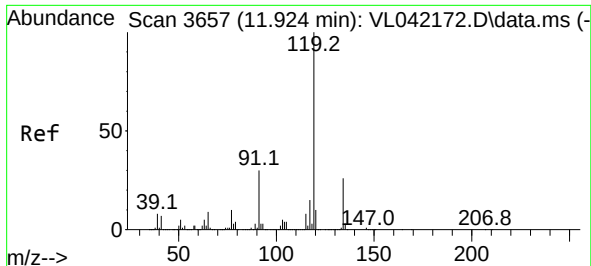
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 11.123 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 95 Resp: 337277
Ion Ratio Lower Upper
95 100
174 60.0 50.6 76.0
175 4.6 3.8 5.6





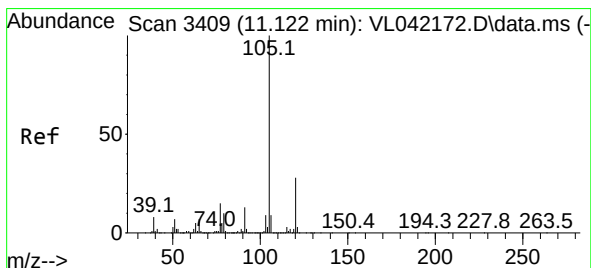
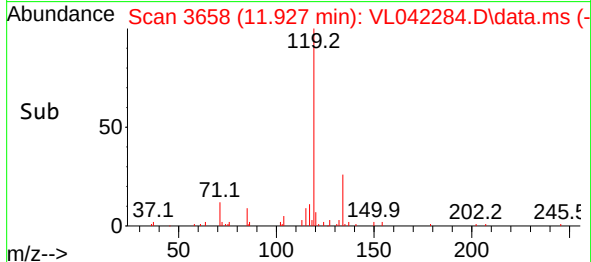
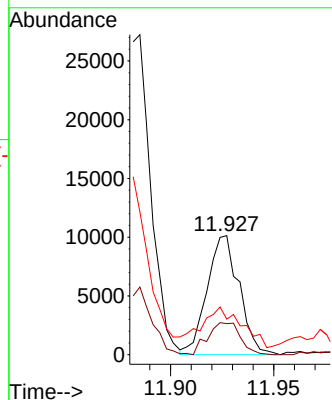
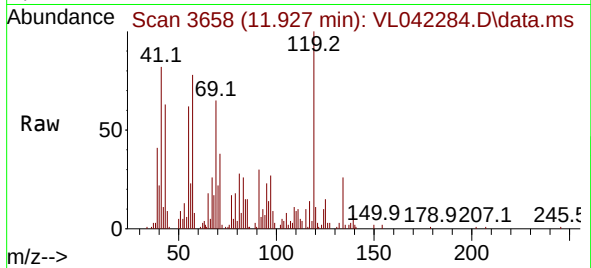
#69
p-Isopropyltoluene
Concen: 0.126 ppbv
RT: 11.927 min Scan# 3011
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

Tgt Ion:	119	Resp:	10964
Ion Ratio	Lower	Upper	
119	100		
134	27.2	20.4	30.6
91	35.1	23.7	35.5

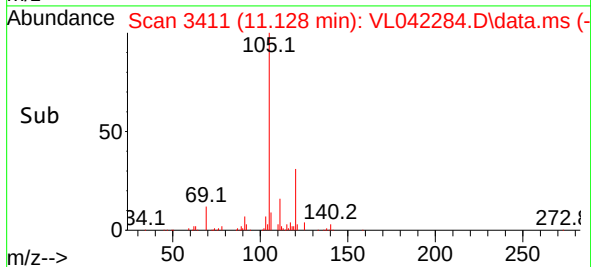
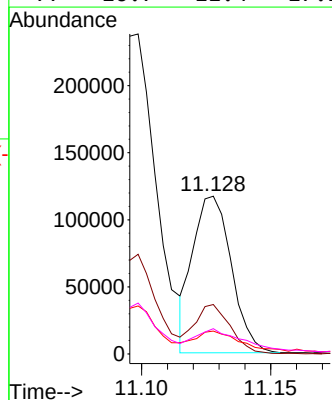
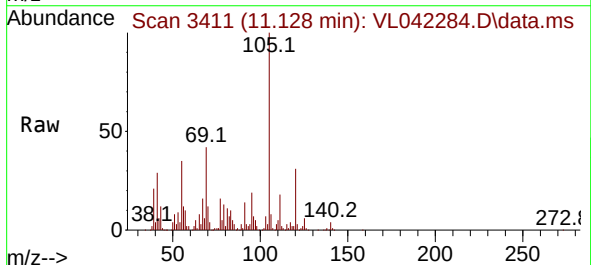
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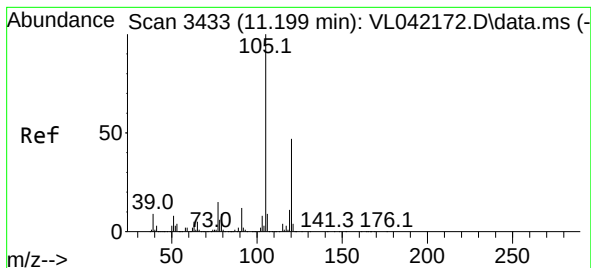
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#72
4-Ethyltoluene
Concen: 1.852 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion:	105	Resp:	121091
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.4	35.0#
91	0.0	10.3	15.5#
77	16.7	11.4	17.2





#73

1,3,5-Trimethylbenzene

Concen: 4.542 ppbv

RT: 11.205 min Scan# 3433

Delta R.T. 0.006 min

Lab File: VL042284.D

Acq: 09 Apr 2025 03:22

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-2-04022025

Tgt Ion:105 Resp: 259320

Ion Ratio Lower Upper

105 100

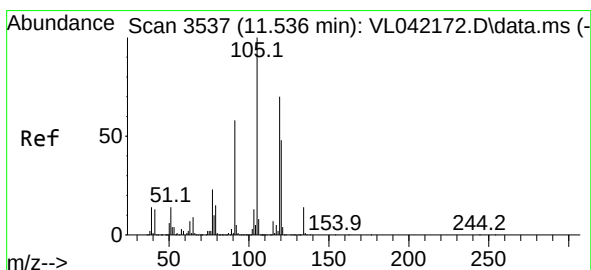
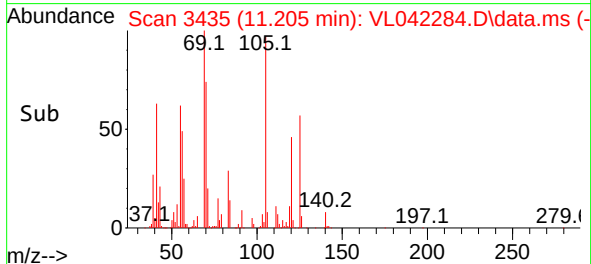
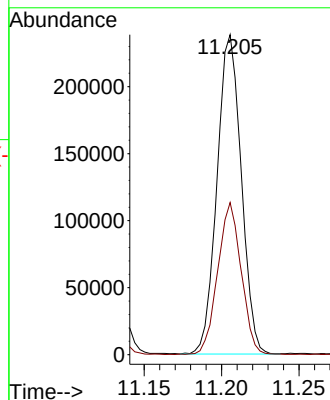
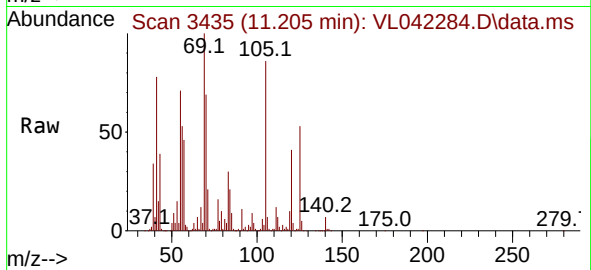
120 47.5 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#74

1,2,4-Trimethylbenzene

Concen: 5.340 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL042284.D

Acq: 09 Apr 2025 03:22

Tgt Ion:105 Resp: 351232

Ion Ratio Lower Upper

105 100

120 42.3 38.6 58.0

91 10.7 46.2 69.2#

77 13.6 18.6 27.8#

