

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042263.D
 Acq On : 08 Apr 2025 14:53
 Operator : SY/MD
 Sample : Q1728-08 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-4-04022025

Manual Integrations
 APPROVED

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

Quant Time: Apr 09 01:56:00 2025

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

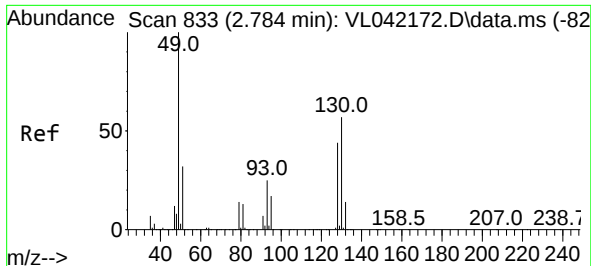
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

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

Response via : Initial Calibration

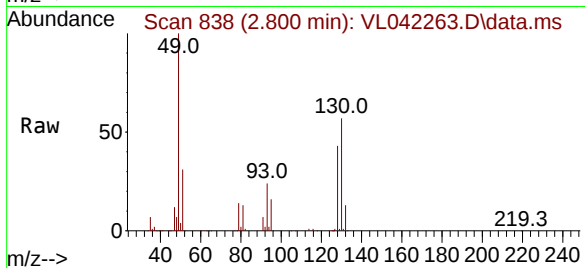
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	164494	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	443030	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.898	117	423016	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	330470	9.513	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%
Target Compounds						
					Qvalue	
9) Propene	1.492	41	2802	0.246	ppbv #	15
10) Heptane	5.007	43	6759m	0.223	ppbv	
13) Ethanol	1.729	45	9619	8.947	ppbv	86
15) Acetone	1.842	43	776044	33.733	ppbv	97
17) tert-Butyl alcohol	2.052	59	7402	0.258	ppbv	94
19) Isopropyl Alcohol	1.894	45	19147	1.475	ppbv #	1
20) Methylene Chloride	2.072	84	10209	1.192	ppbv	97
26) Hexane	2.842	57	5541	0.240	ppbv #	39
34) 2-Butanone	2.573	43	14609	0.455	ppbv	99
38) Trichloroethene	4.574	130	1879m	0.103	ppbv	
44) 2,2,4-Trimethylpentane	4.661	57	12434m	0.168	ppbv	
53) Toluene	6.959	91	48553	0.933	ppbv	98
58) Ethyl Benzene	9.370	91	53186	0.708	ppbv	97
59) m/p-Xylene	9.548	91	591775	9.863	ppbv	100
60) o-Xylene	9.979	91	449997	7.482	ppbv	97
62) Isopropylbenzene	10.552	105	25164	0.280	ppbv	99
64) n-propylbenzene	11.002	120	6217	0.269	ppbv	65
65) tert-Butylbenzene	11.549	119	35615	0.428	ppbv #	74
69) p-Isopropyltoluene	11.940	119	15445	0.155	ppbv	94
72) 4-Ethyltoluene	11.138	105	97907	1.307	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.218	105	211978	3.241	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	284630	3.777	ppbv #	65

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

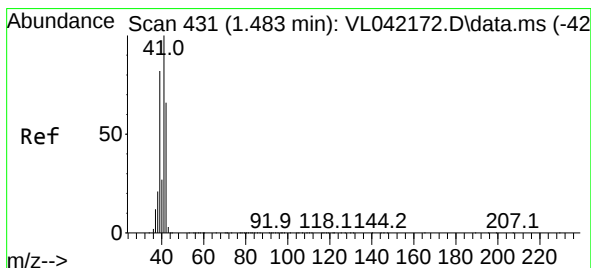
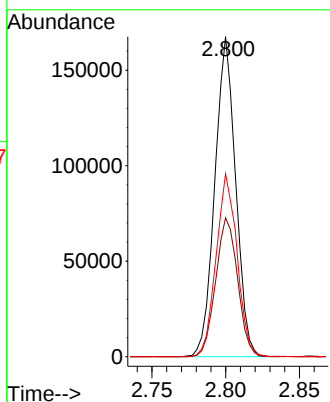
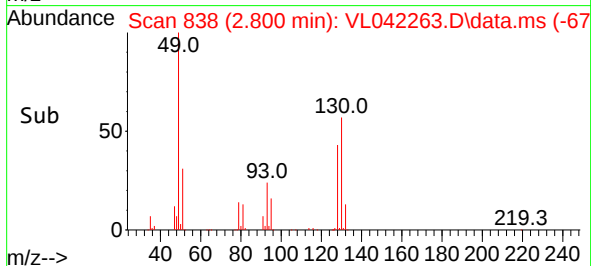
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



Tgt Ion: 49 Resp: 164494
Ion Ratio Lower Upper
49 100
128 45.6 22.9 68.5
130 57.5 28.8 86.4

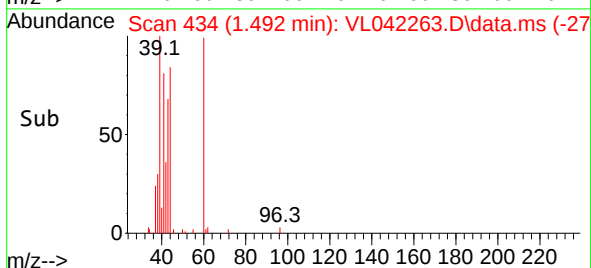
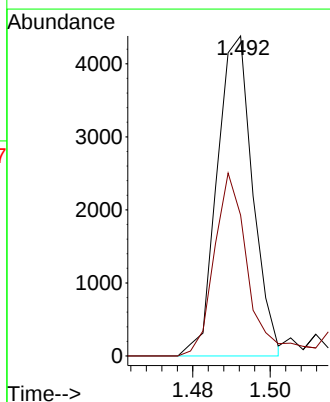
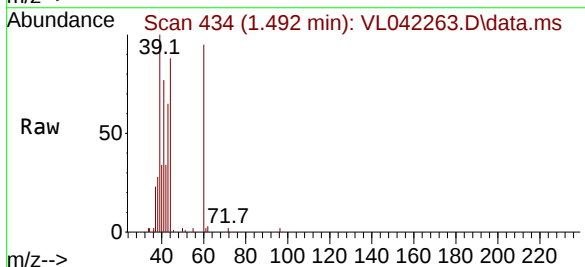
Manual Integrations
APPROVED

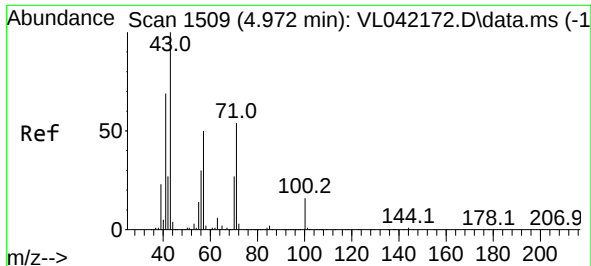
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#9
Propene
Concen: 0.246 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

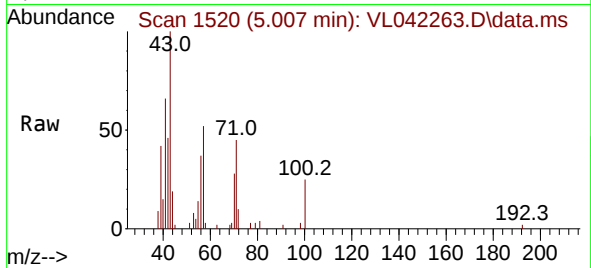
Tgt Ion: 41 Resp: 2802
Ion Ratio Lower Upper
41 100
42 0.0 55.4 83.2#





#10
Heptane
Concen: 0.223 ppbv m
RT: 5.007 min Scan# 11
Delta R.T. 0.035 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

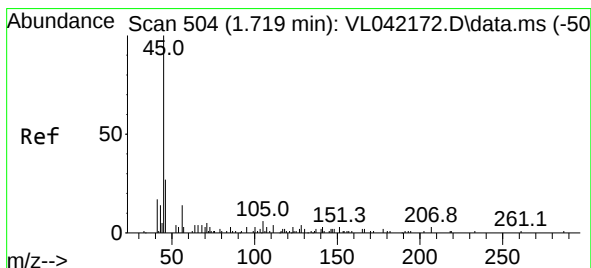
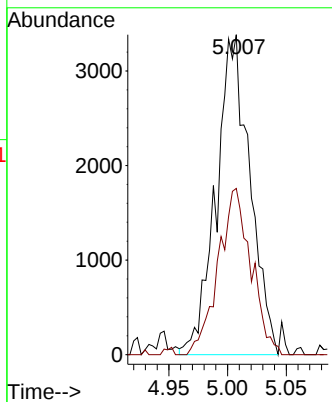
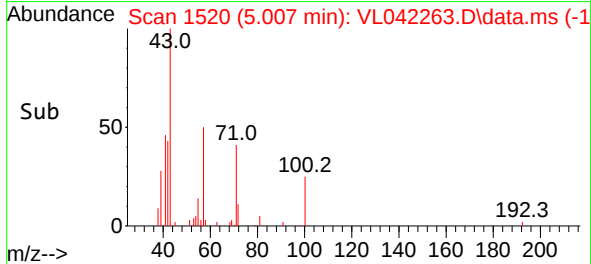
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



Tgt Ion: 43 Resp: 6759
Ion Ratio Lower Upper
43 100
57 51.0 39.4 59.2

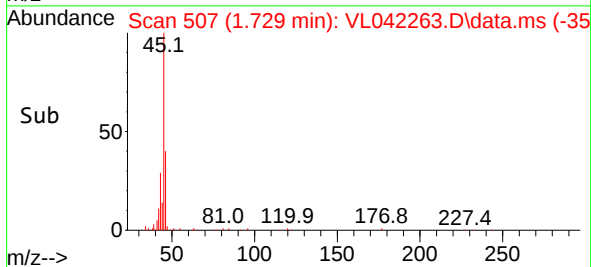
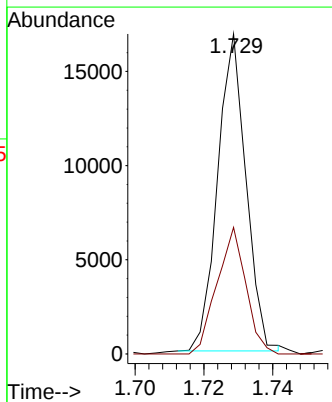
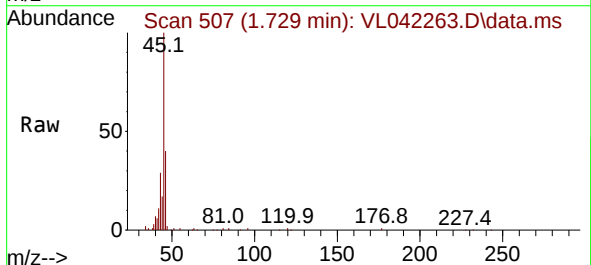
Manual Integrations
APPROVED

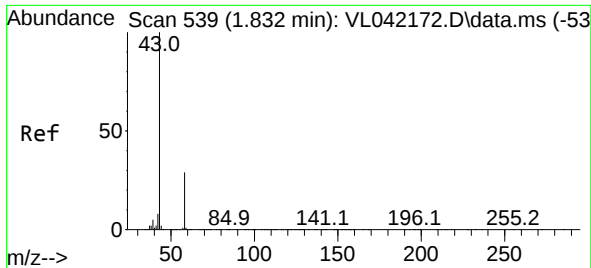
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 8.947 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

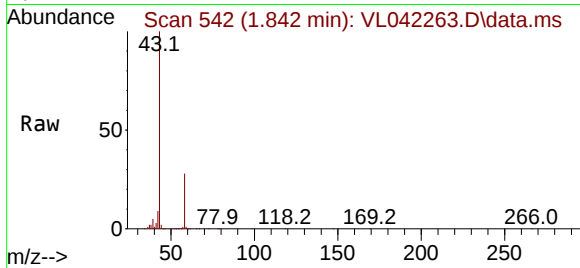
Tgt Ion: 45 Resp: 9619
Ion Ratio Lower Upper
45 100
46 40.8 20.2 80.8





#15
Acetone
Concen: 33.733 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.010 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

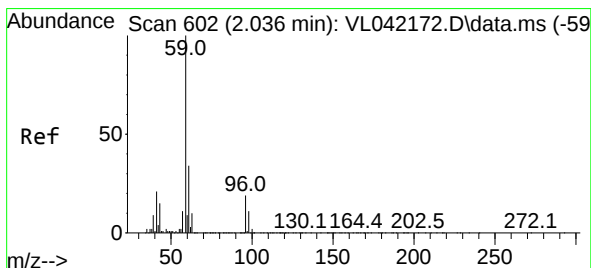
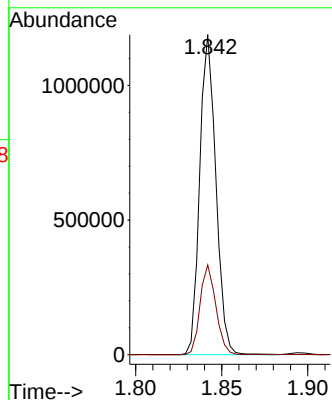
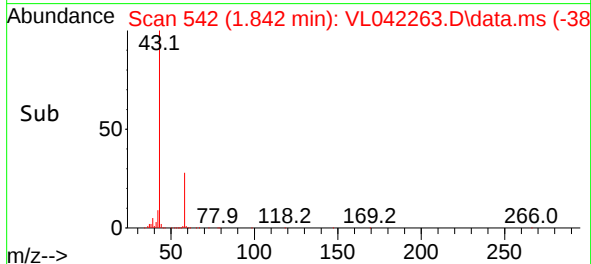
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



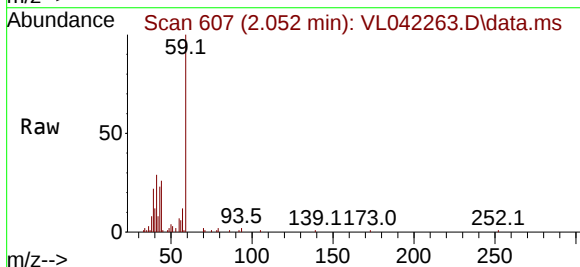
Tgt Ion: 43 Resp: 776044
Ion Ratio Lower Upper
43 100
58 27.5 23.2 34.8

Manual Integrations
APPROVED

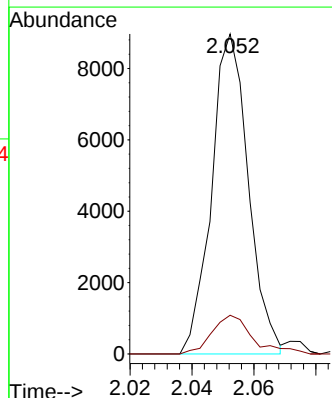
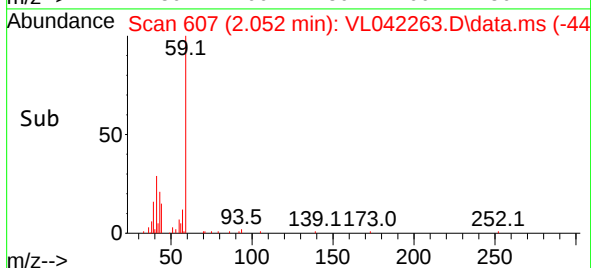
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

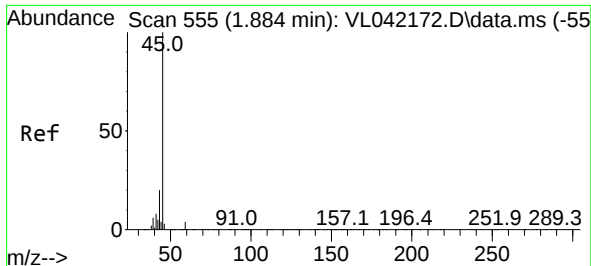


#17
tert-Butyl alcohol
Concen: 0.258 ppbv
RT: 2.052 min Scan# 607
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53



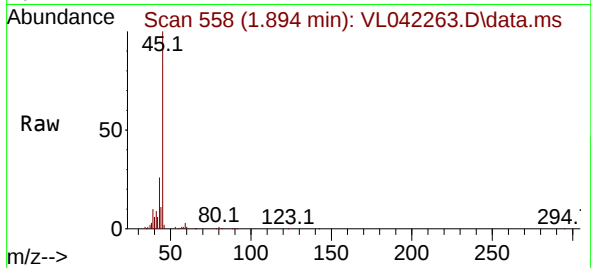
Tgt Ion: 59 Resp: 7402
Ion Ratio Lower Upper
59 100
57 13.3 8.9 13.3





#19
Isopropyl Alcohol
Concen: 1.475 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.010 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

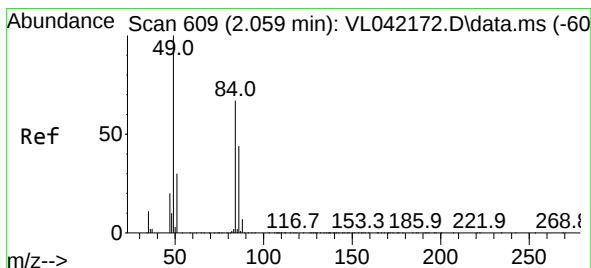
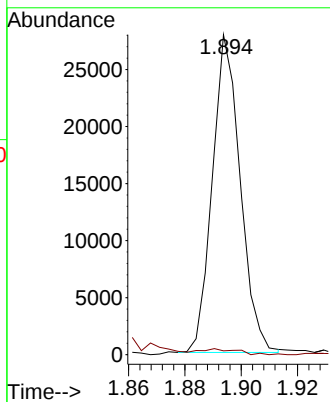
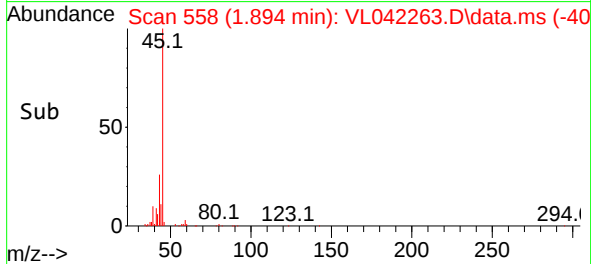
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



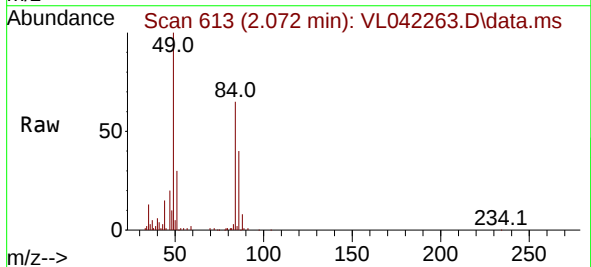
Tgt Ion: 45 Resp: 1914
Ion Ratio Lower Upper
45 100
58 1113.8 36.9 55.3

Manual Integrations
APPROVED

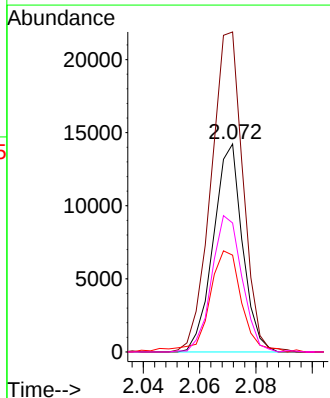
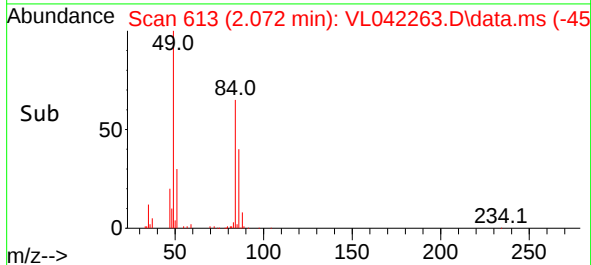
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

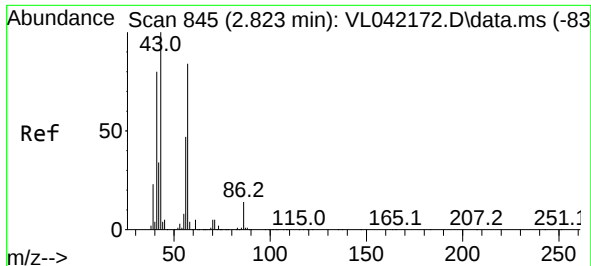


#20
Methylene Chloride
Concen: 1.192 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53



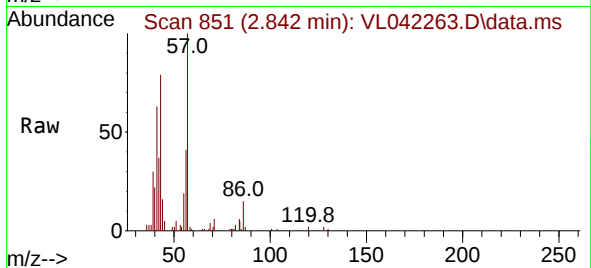
Tgt Ion: 84 Resp: 10209
Ion Ratio Lower Upper
84 100
49 152.9 120.2 180.4
51 45.0 37.4 56.0
86 62.0 52.4 78.6





#26
Hexane
Concen: 0.240 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

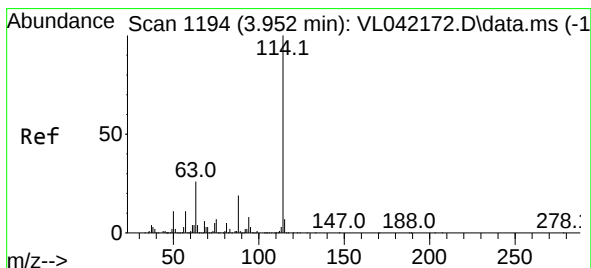
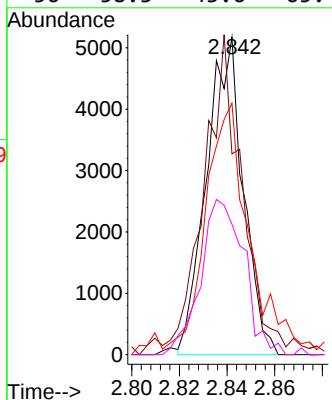
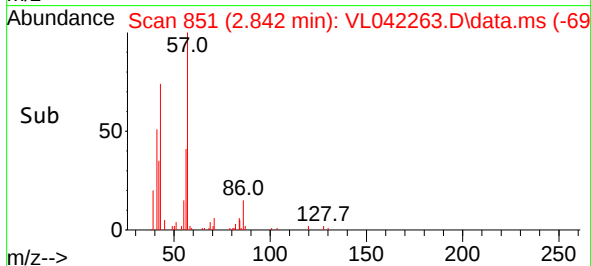
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



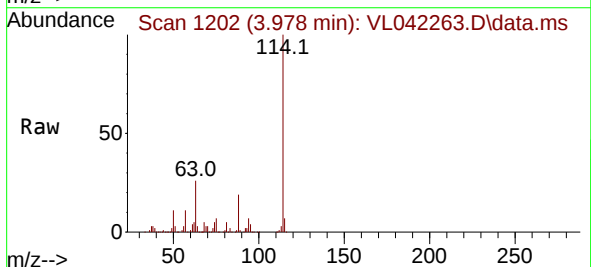
Tgt Ion: 57 Resp: 554
Ion Ratio Lower Upper
57 100
41 107.4 76.6 114.8
43 98.8 207.8 311.8
56 58.3 43.6 65.4

Manual Integrations
APPROVED

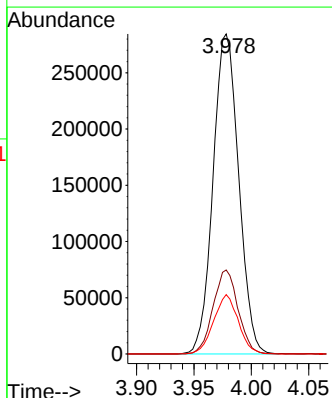
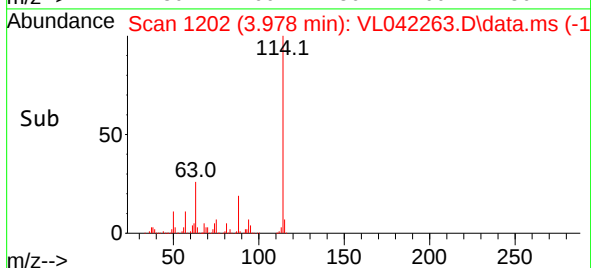
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

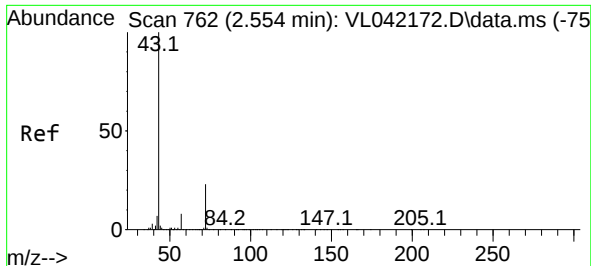


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. 0.026 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53



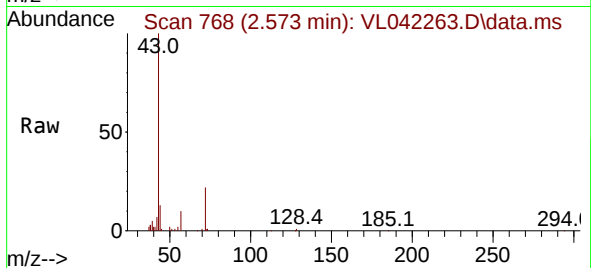
Tgt Ion:114 Resp: 443030
Ion Ratio Lower Upper
114 100
63 25.6 20.7 31.1
88 17.8 15.0 22.4





#34
2-Butanone
Concen: 0.455 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

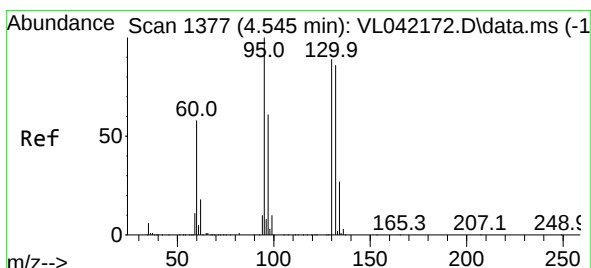
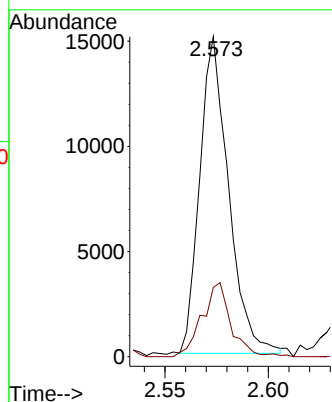
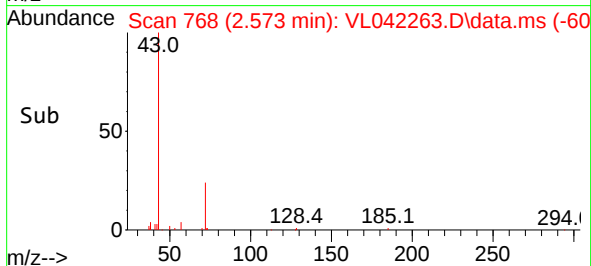
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



Tgt Ion: 43 Resp: 14609
Ion Ratio Lower Upper
43 100
72 23.4 18.2 27.2

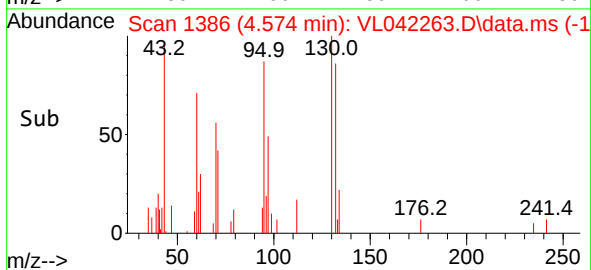
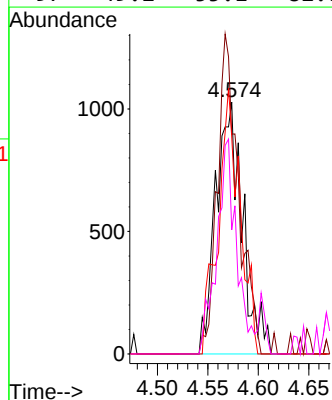
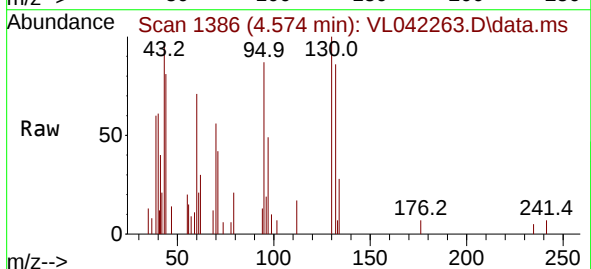
Manual Integrations
APPROVED

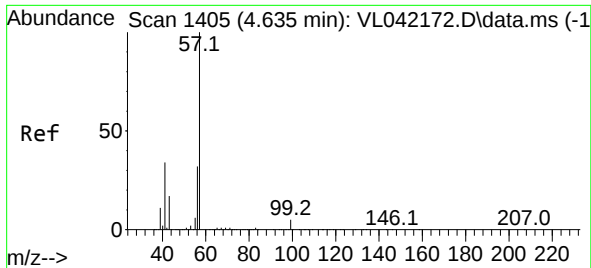
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#38
Trichloroethene
Concen: 0.103 ppbv m
RT: 4.574 min Scan# 1386
Delta R.T. 0.029 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

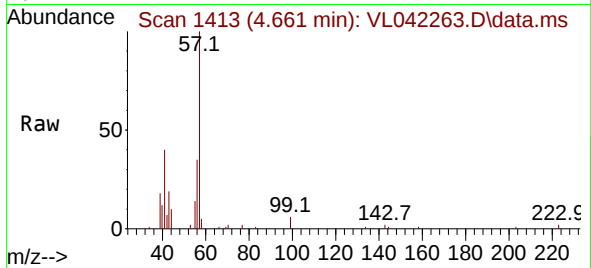
Tgt Ion:130 Resp: 1879
Ion Ratio Lower Upper
130 100
95 87.3 89.8 134.8#
132 86.2 77.4 116.2
97 49.2 55.1 82.7#





#44
2,2,4-Trimethylpentane
Concen: 0.168 ppbv m
RT: 4.661 min Scan# 1405
Delta R.T. 0.026 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

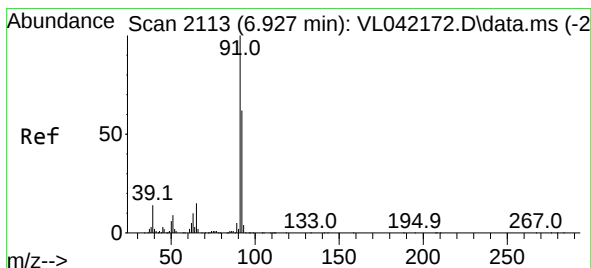
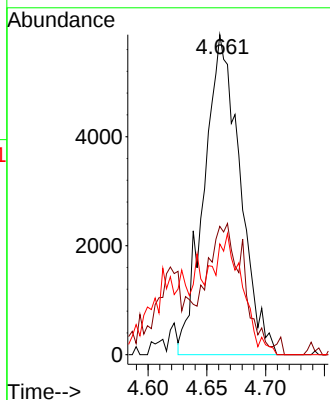
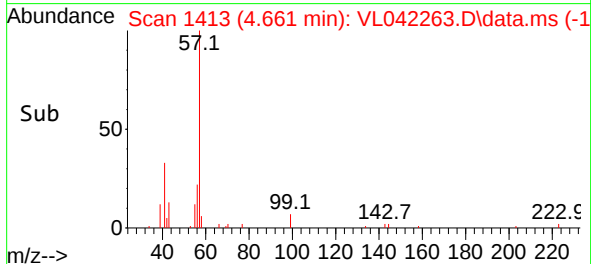
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



Tgt Ion: 57 Resp: 12434
Ion Ratio Lower Upper
57 100
41 47.6 26.8 40.2
56 31.8 25.6 38.4

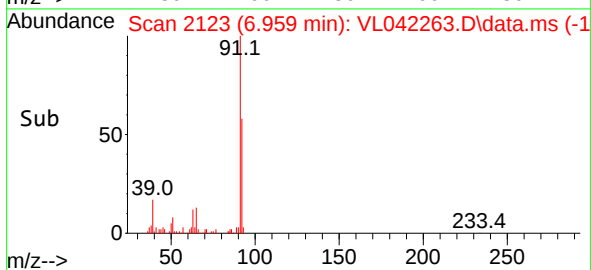
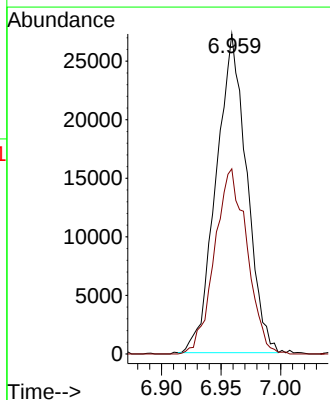
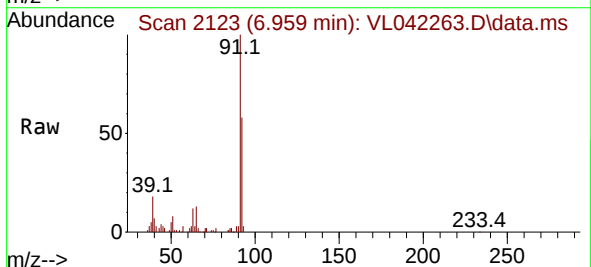
Manual Integrations
APPROVED

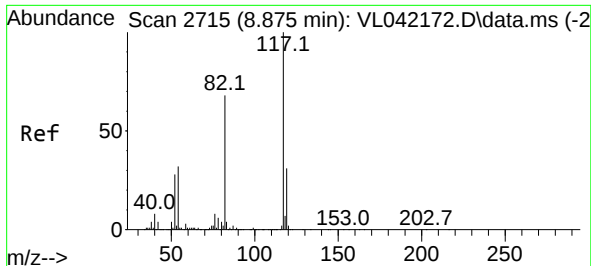
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 0.933 ppbv
RT: 6.959 min Scan# 2123
Delta R.T. 0.032 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

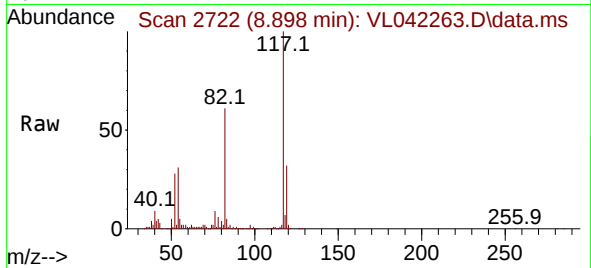
Tgt Ion: 91 Resp: 48553
Ion Ratio Lower Upper
91 100
92 61.7 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. 0.022 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

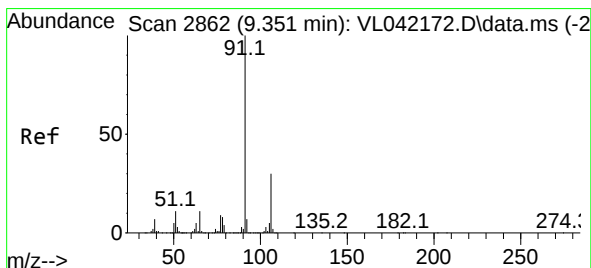
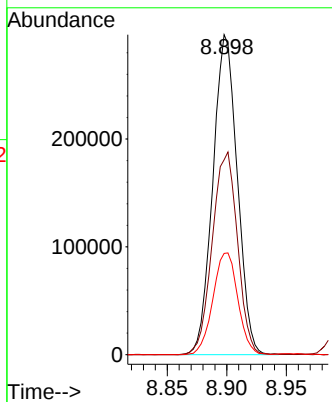
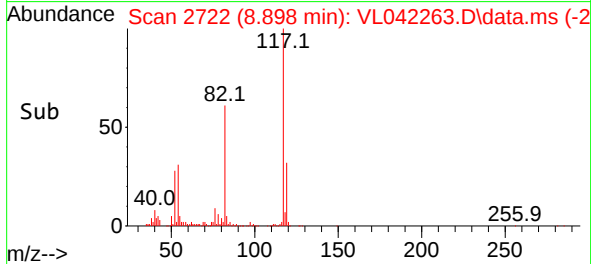
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



Tgt Ion:117 Resp: 423010
Ion Ratio Lower Upper
117 100
82 65.4 55.8 83.6
119 32.5 25.5 38.3

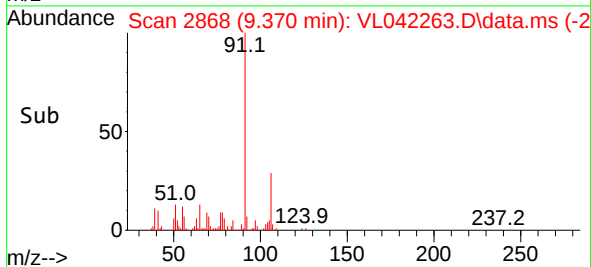
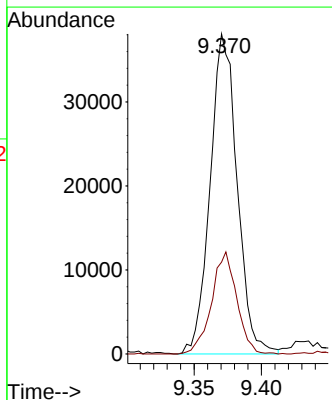
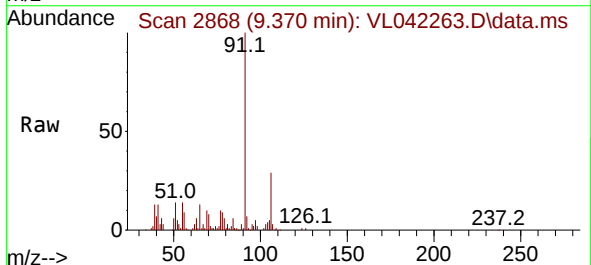
Manual Integrations
APPROVED

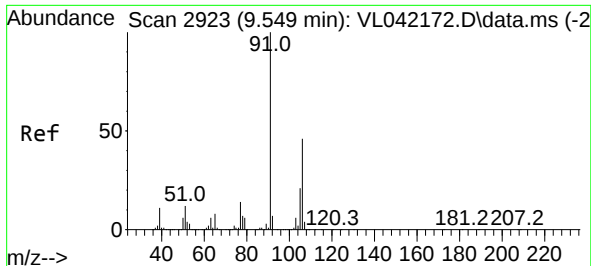
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#58
Ethyl Benzene
Concen: 0.708 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion: 91 Resp: 53186
Ion Ratio Lower Upper
91 100
106 28.7 24.2 36.2





#59

m/p-Xylene

Concen: 9.863 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025

Tgt Ion: 91 Resp: 591775

Ion Ratio Lower Upper

91 100

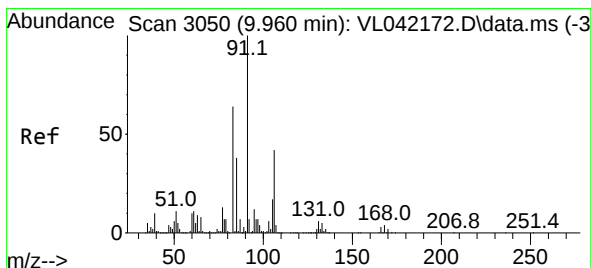
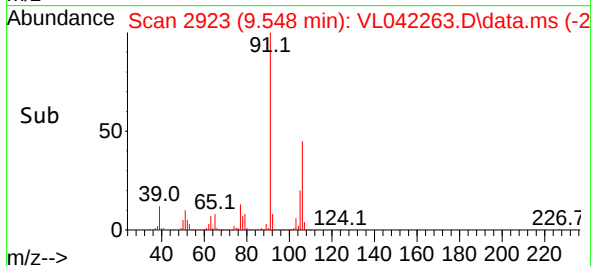
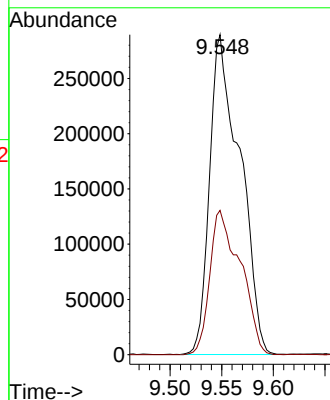
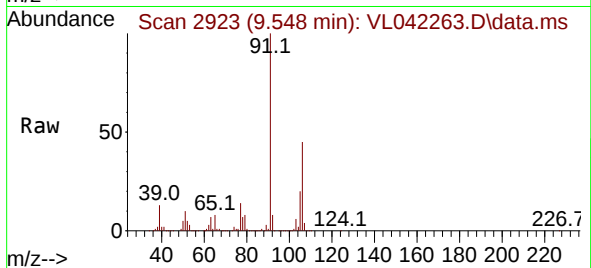
106 45.6 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#60

o-Xylene

Concen: 7.482 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.019 min

Lab File: VL042263.D

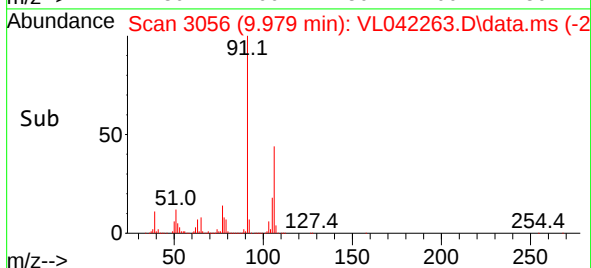
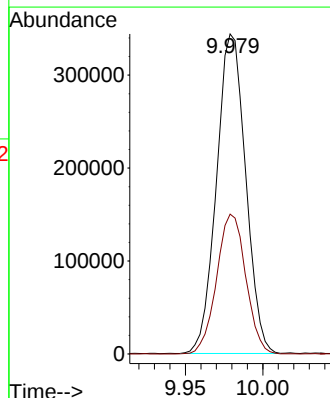
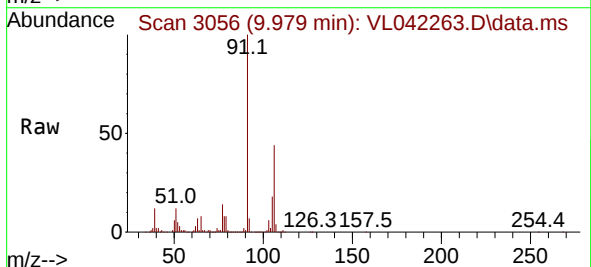
Acq: 08 Apr 2025 14:53

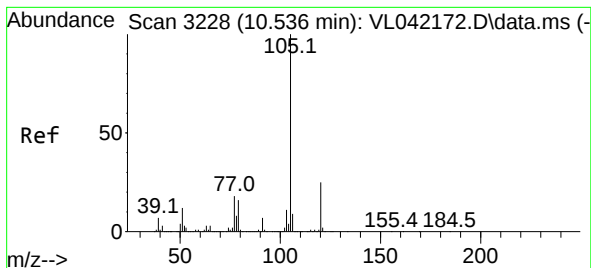
Tgt Ion: 91 Resp: 449997

Ion Ratio Lower Upper

91 100

106 43.9 20.8 62.5





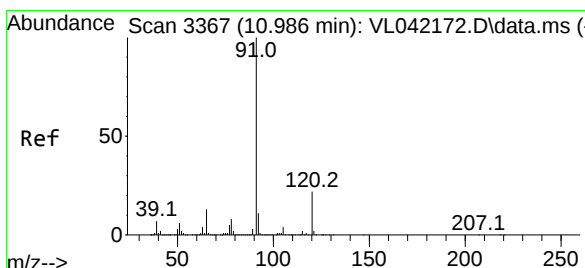
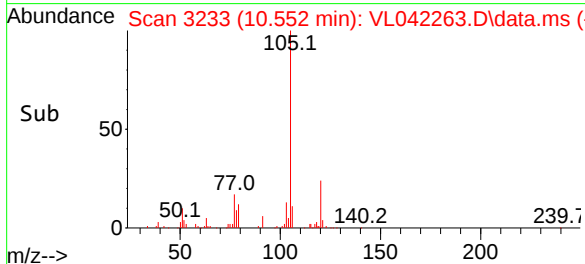
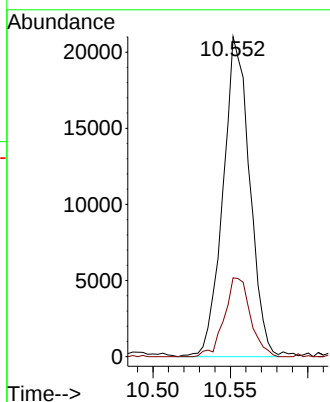
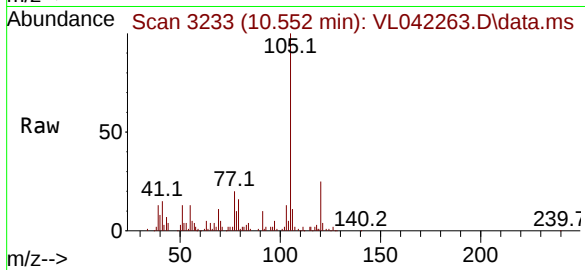
#62
Isopropylbenzene
Concen: 0.280 ppbv
RT: 10.552 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

Tgt Ion:105 Resp: 25164
Ion Ratio Lower Upper
105 100
120 24.3 19.9 29.9

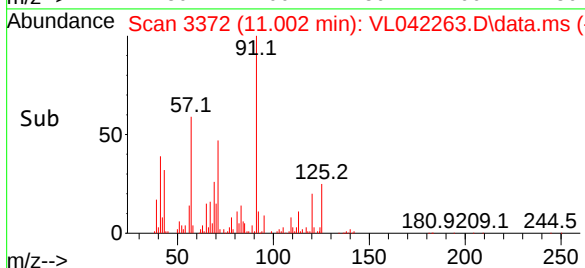
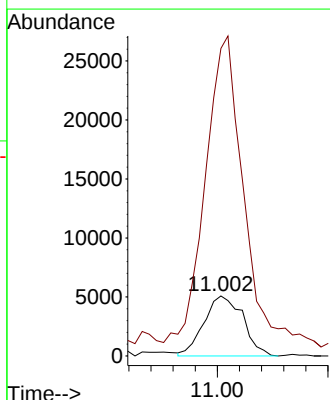
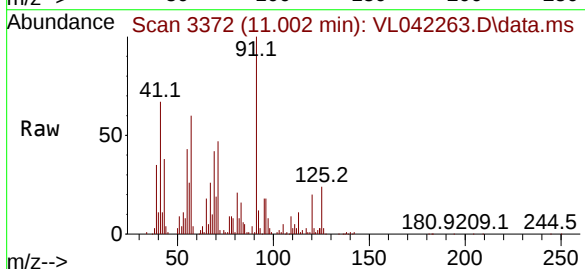
Manual Integrations
APPROVED

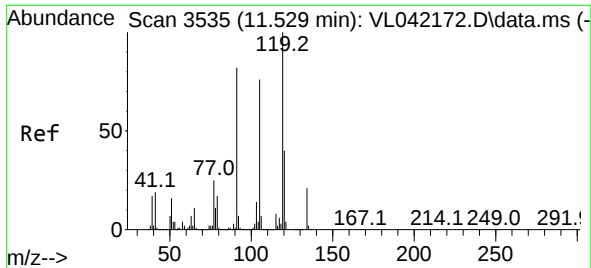
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#64
n-propylbenzene
Concen: 0.269 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

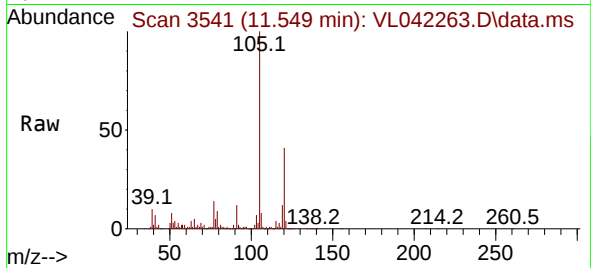
Tgt Ion:120 Resp: 6217
Ion Ratio Lower Upper
120 100
91 564.3 376.9 565.3





#65
tert-Butylbenzene
Concen: 0.428 ppbv
RT: 11.549 min Scan# 3535
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

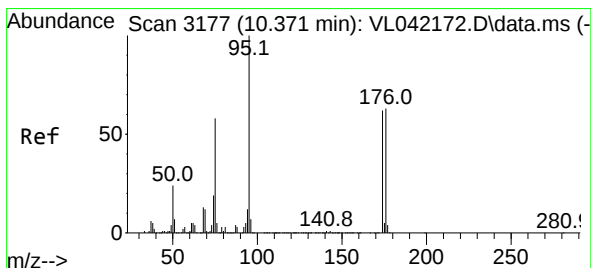
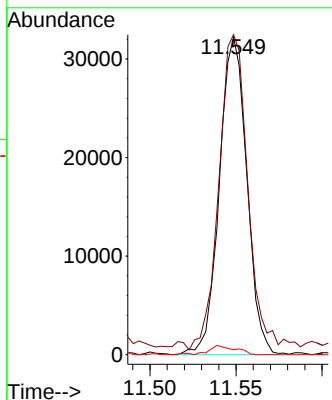
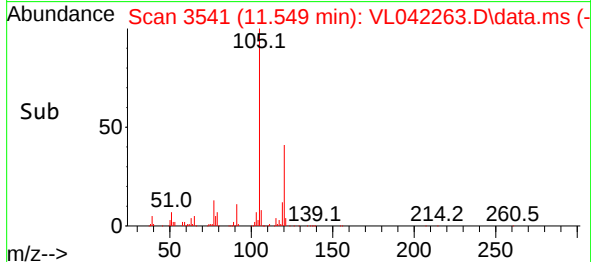
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-4-04022025



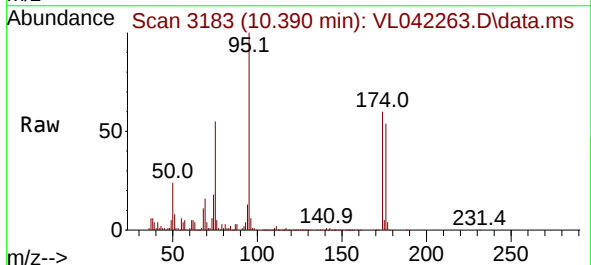
Tgt Ion: 119 Resp: 3561
Ion Ratio Lower Upper
119 100
91 103.4 66.0 99.0
134 2.9 16.7 25.1

Manual Integrations
APPROVED

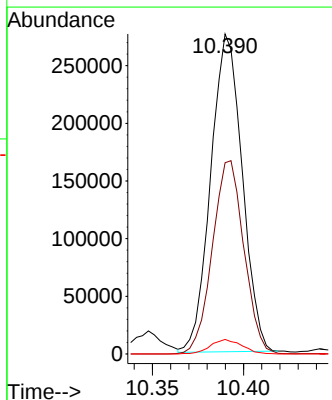
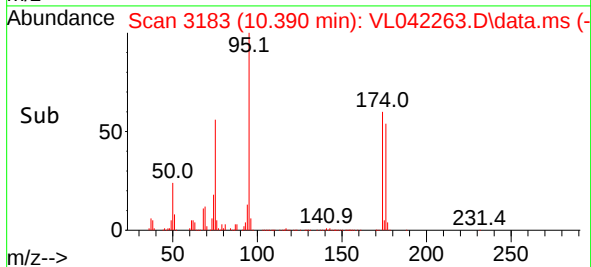
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

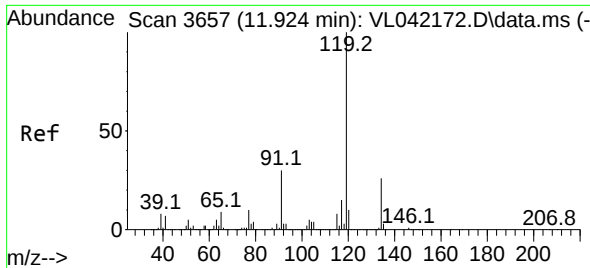


#68
1-Bromo-4-Fluorobenzene
Concen: 9.513 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53



Tgt Ion: 95 Resp: 330470
Ion Ratio Lower Upper
95 100
174 61.0 50.6 76.0
175 4.6 3.8 5.6





#69
p-Isopropyltoluene
Concen: 0.155 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

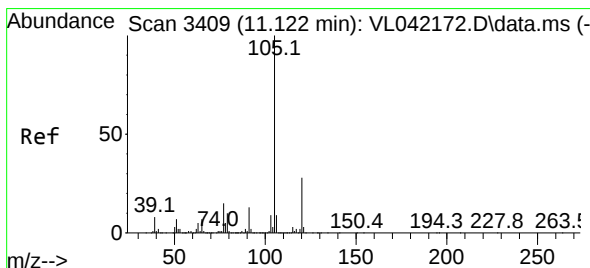
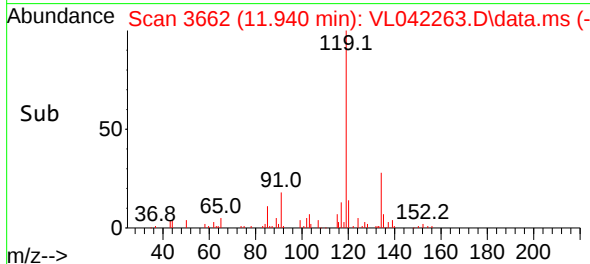
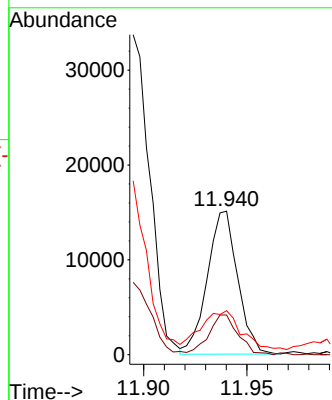
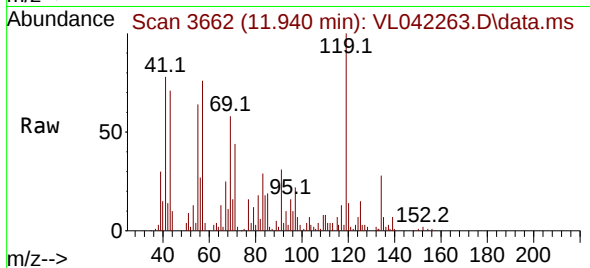
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

Tgt Ion:119 Resp: 15449

Ion	Ratio	Lower	Upper
119	100		
134	27.3	20.4	30.6
91	34.1	23.7	35.5

Manual Integrations
APPROVED

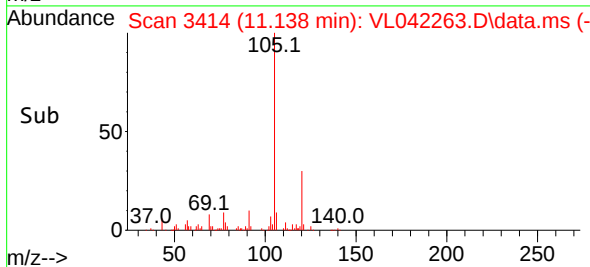
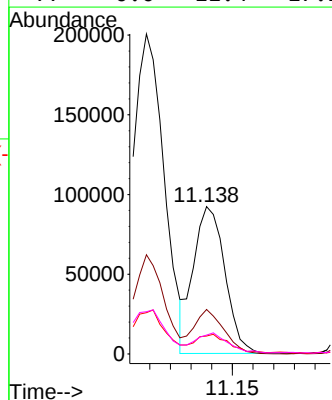
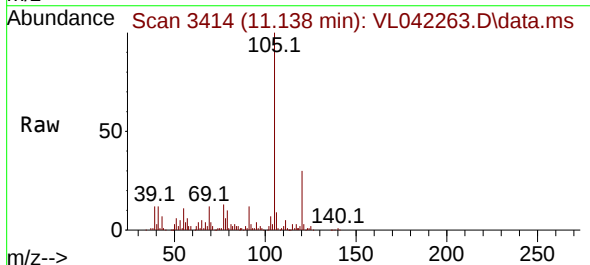
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

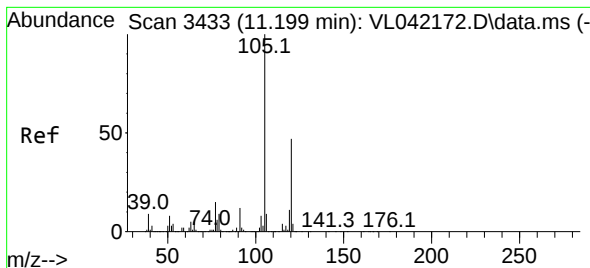


#72
4-Ethyltoluene
Concen: 1.307 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion:105 Resp: 97907

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.0#
91	0.0	10.3	15.5#
77	0.0	11.4	17.2#





#73

1,3,5-Trimethylbenzene

Concen: 3.241 ppbv

RT: 11.218 min Scan# 3433

Delta R.T. 0.019 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025

Tgt Ion:105 Resp: 211978

Ion Ratio Lower Upper

105 100

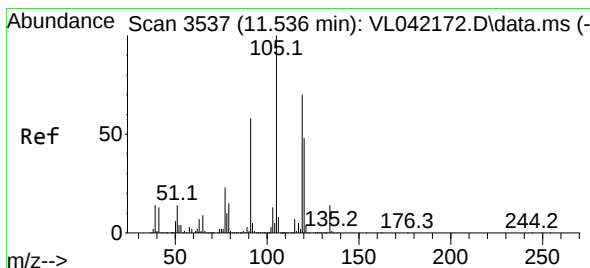
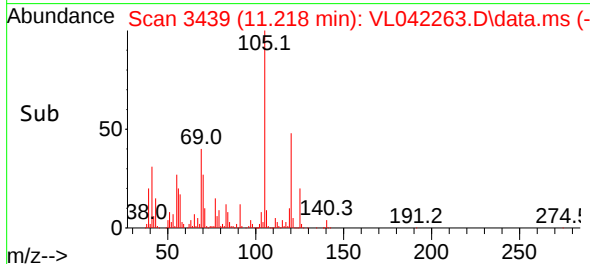
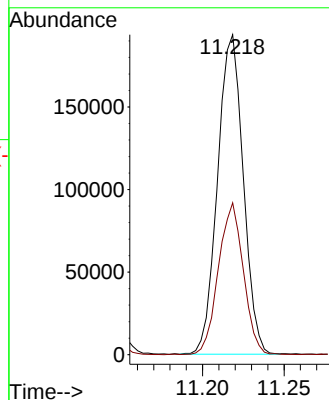
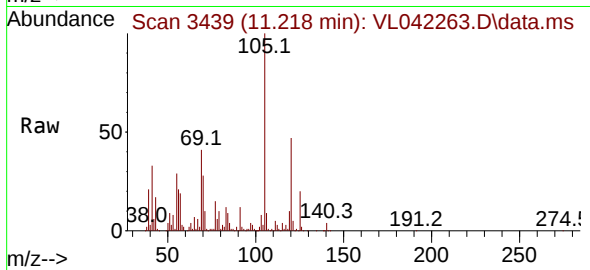
120 47.5 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#74

1,2,4-Trimethylbenzene

Concen: 3.777 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.013 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

Tgt Ion:105 Resp: 284630

Ion Ratio Lower Upper

105 100

120 41.3 38.6 58.0

91 11.8 46.2 69.2#

77 13.9 18.6 27.8#

