

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
 Data File : VL042206.D
 Acq On : 31 Mar 2025 12:26
 Operator : SY/MD
 Sample : Q1669-06DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-DUP-1-3262025DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025
 Supervised By :Mahesh Dadoda 04/01/2025

Quant Time: Apr 01 01:38:20 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri 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	2.807	49	184777	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.985	114	533717	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.908	117	486289	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.397	95	393432	9.852	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.506	85	12317	0.451	ppbv	97
3) Chlorodifluoromethane	1.483	51	8722	0.313	ppbv	94
4) Chloromethane	1.538	50	4692	0.421	ppbv	92
9) Propene	1.489	41	224043	17.538	ppbv	96
10) Heptane	5.011	43	56357	1.659	ppbv	94
11) Trichlorofluoromethane	1.888	101	5051	0.190	ppbv	88
13) Ethanol	1.732	45	130271	107.874	ppbv	84
15) Acetone	1.845	43	573624m	22.197	ppbv	
20) Methylene Chloride	2.072	84	5120	0.532	ppbv	86
26) Hexane	2.846	57	118243	4.564	ppbv #	33
30) Cyclohexane	3.881	84	33679	1.497	ppbv	94
34) 2-Butanone	2.574	43	248177	6.413	ppbv	99
35) Carbon Tetrachloride	3.784	117	2736	0.066	ppbv #	76
36) Benzene	3.681	78	309110	5.842	ppbv	100
41) Tetrahydrofuran	3.079	42	43424	1.948	ppbv	96
44) 2,2,4-Trimethylpentane	4.674	57	209735	2.346	ppbv #	85
50) 4-Methyl-2-Pentanone	5.814	43	25203m	0.411	ppbv	
52) Tetrachloroethene	8.251	164	739m	0.035	ppbv	
53) Toluene	6.966	91	625978	9.980	ppbv	100
58) Ethyl Benzene	9.380	91	117204	1.357	ppbv	100
59) m/p-Xylene	9.555	91	353075	5.119	ppbv	99
60) o-Xylene	9.989	91	131916	1.908	ppbv	98
61) Styrene	9.892	104	47838	1.398	ppbv	98
64) n-propylbenzene	11.008	120	6104	0.229	ppbv	99
72) 4-Ethyltoluene	11.144	105	36900	0.429	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.222	105	32118	0.427	ppbv	87
74) 1,2,4-Trimethylbenzene	11.552	105	115741	1.336	ppbv #	64
79) Naphthalene	13.530	128	34692	0.366	ppbv	99

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

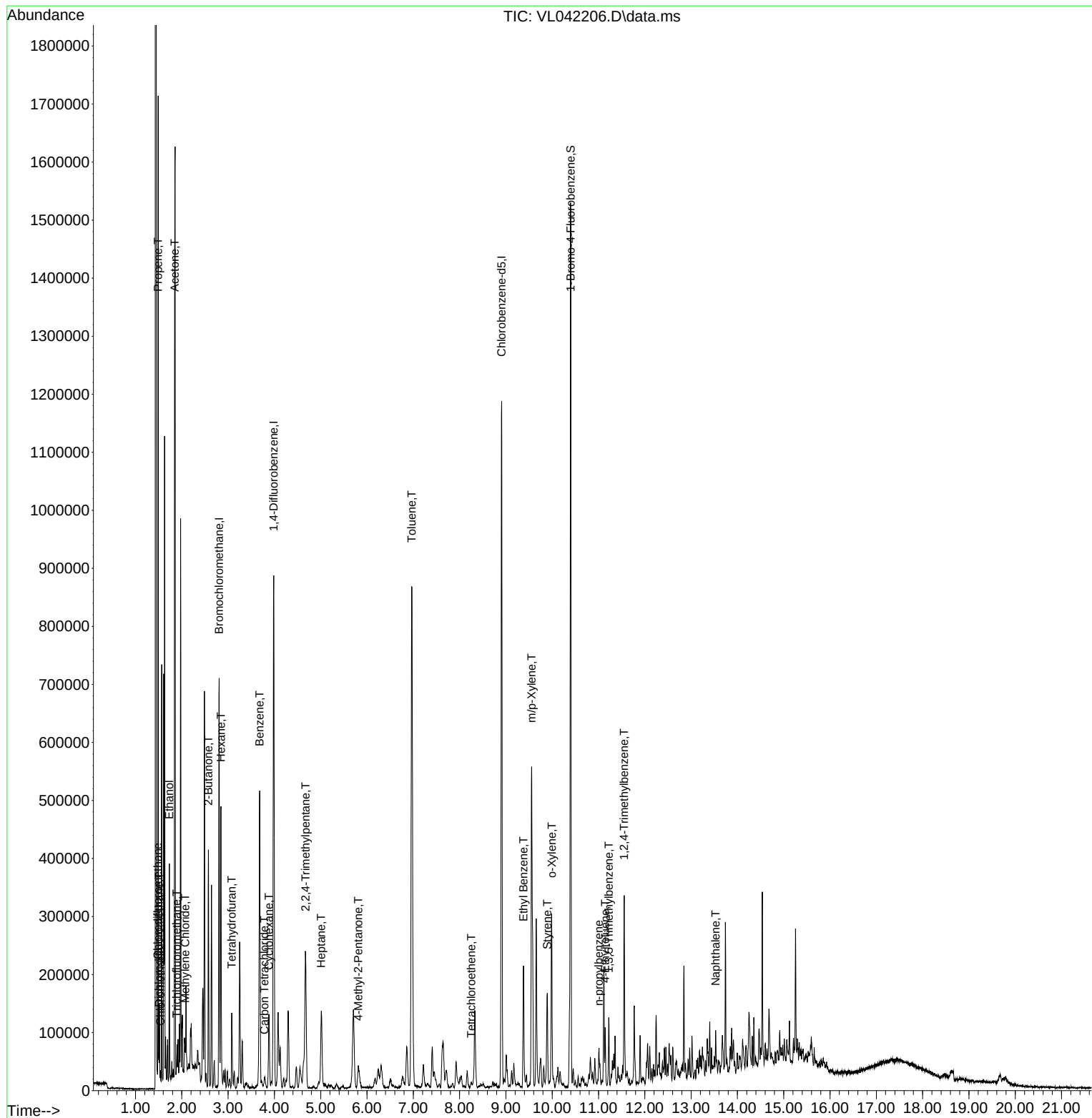
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042206.D
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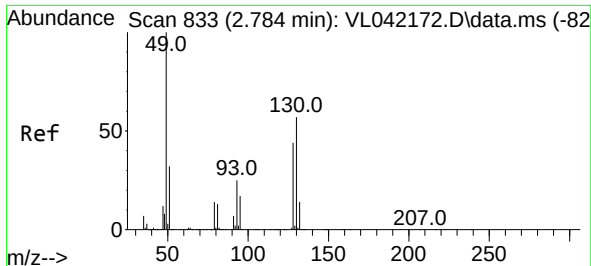
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-1-3262025DUP

Quant Time: Apr 01 01:38:20 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

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 04/01/2025
Supervised By : Mahesh Dadoda 04/01/2025





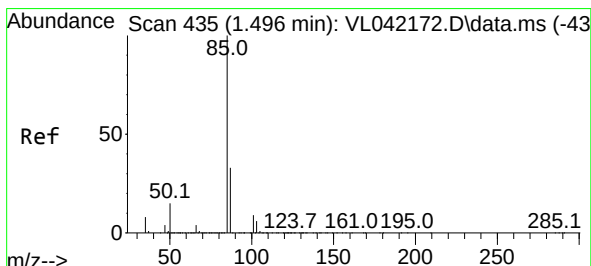
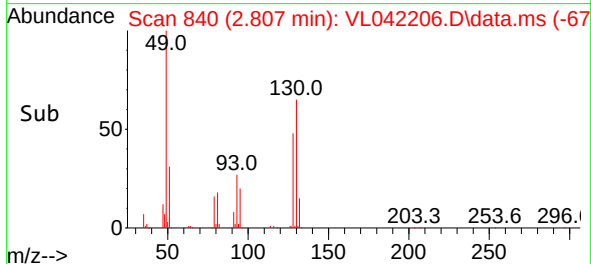
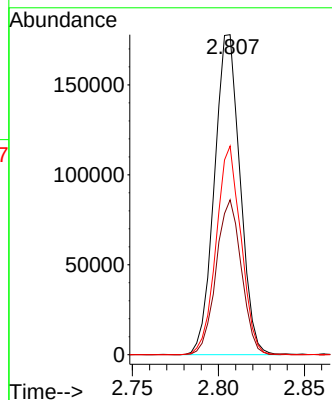
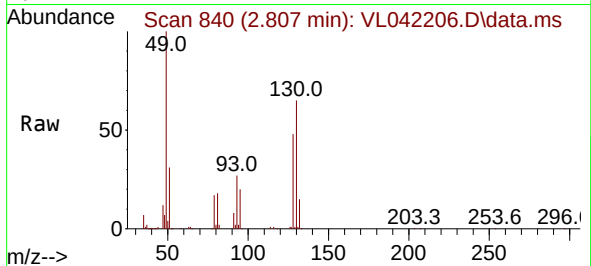
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.807 min Scan# 84
Delta R.T. 0.023 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-1-3262025DUP

Tgt Ion: 49 Resp: 18477
Ion Ratio Lower Upper
49 100
128 47.6 22.9 68.5
130 63.0 28.8 86.4

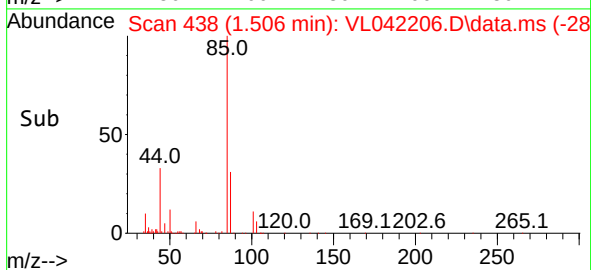
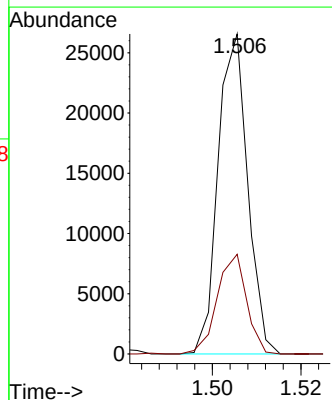
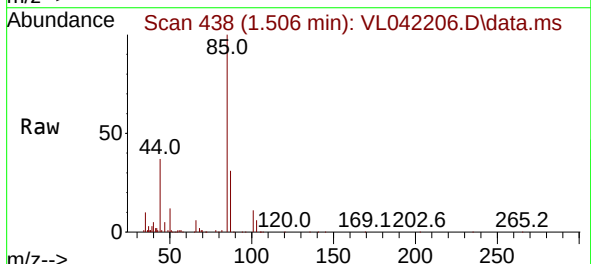
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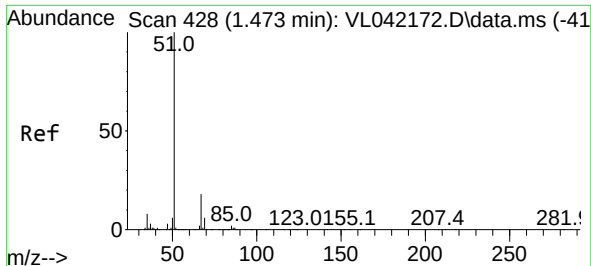
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#2
Dichlorodifluoromethane
Concen: 0.451 ppbv
RT: 1.506 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

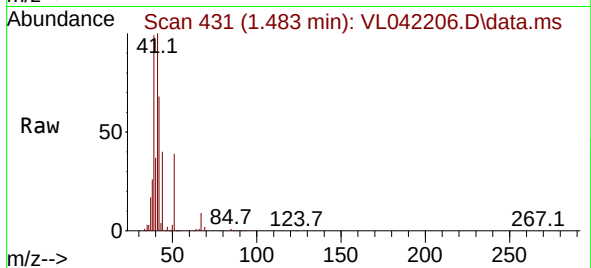
Tgt Ion: 85 Resp: 12317
Ion Ratio Lower Upper
85 100
87 31.1 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.313 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

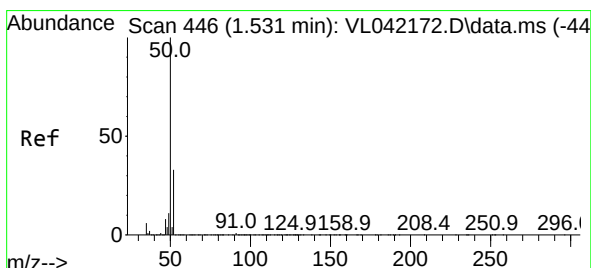
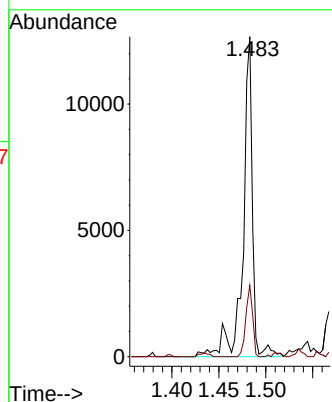
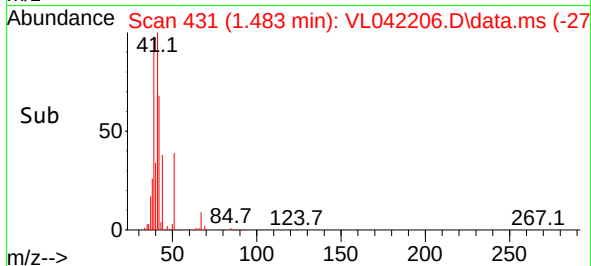
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-1-3262025DUP



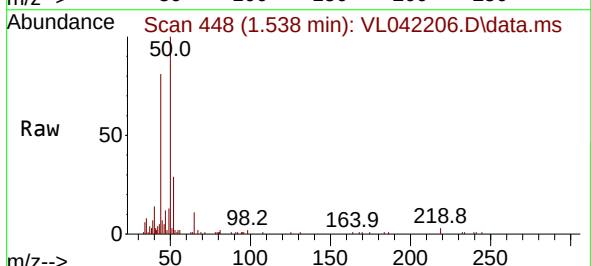
Tgt Ion: 51 Resp: 872
Ion Ratio Lower Upper
51 100
67 16.3 15.0 22.6

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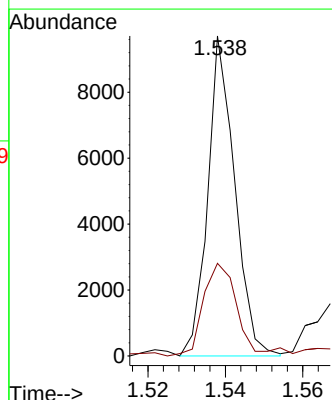
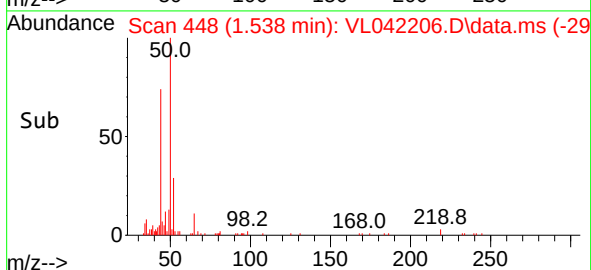
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025

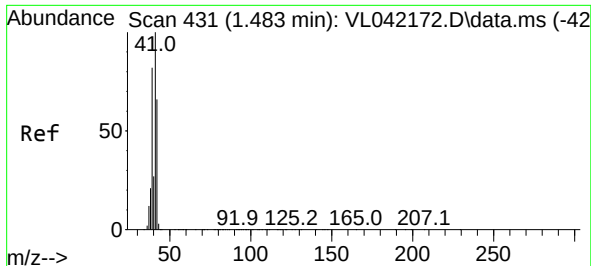


#4
Chloromethane
Concen: 0.421 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.007 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26



Tgt Ion: 50 Resp: 4692
Ion Ratio Lower Upper
50 100
52 28.2 26.1 39.1





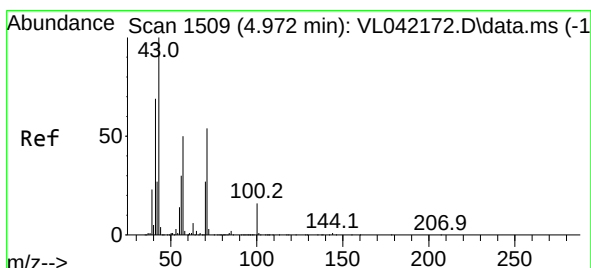
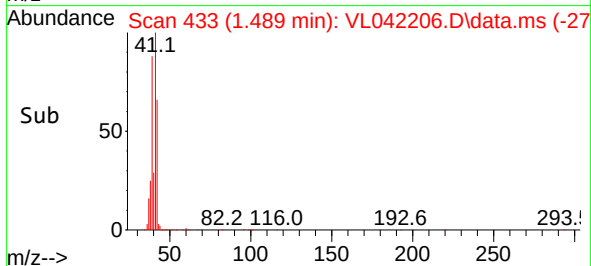
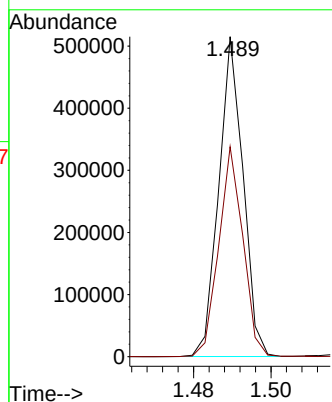
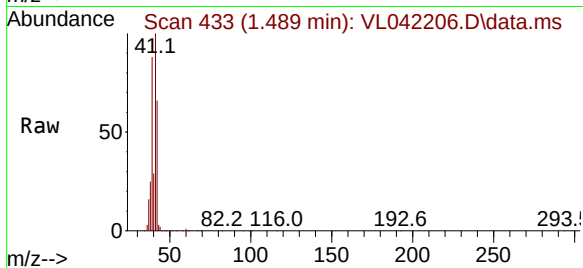
#9
Propene
Concen: 17.538 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-1-3262025DUP

Tgt Ion: 41 Resp: 22404
Ion Ratio Lower Upper
41 100
42 65.9 55.4 83.2

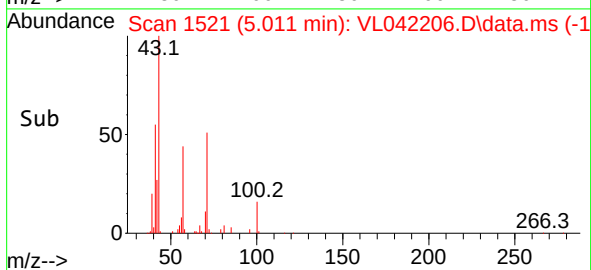
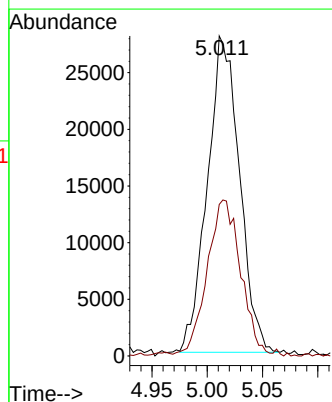
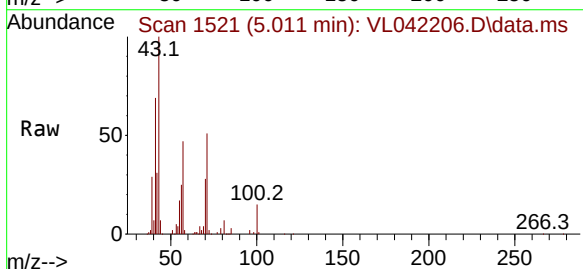
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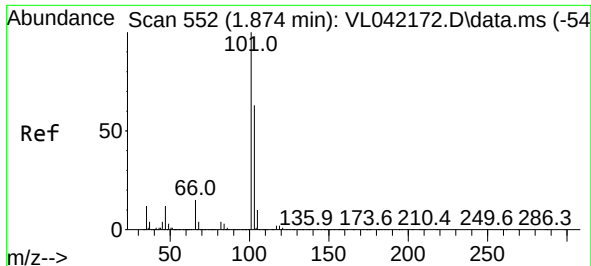
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#10
Heptane
Concen: 1.659 ppbv
RT: 5.011 min Scan# 1521
Delta R.T. 0.039 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

Tgt Ion: 43 Resp: 56357
Ion Ratio Lower Upper
43 100
57 53.1 39.4 59.2





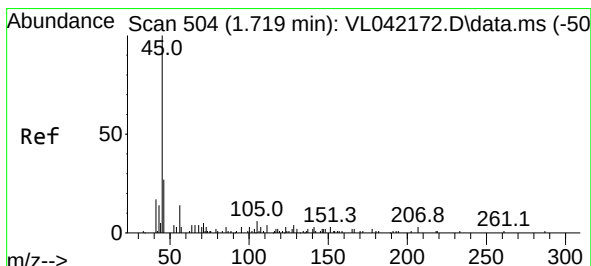
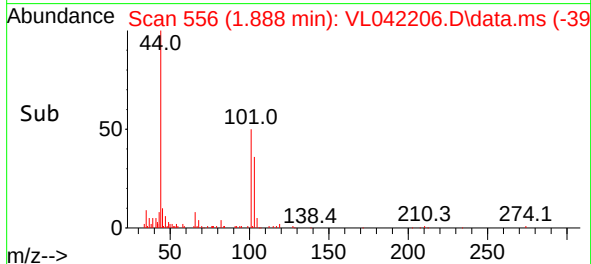
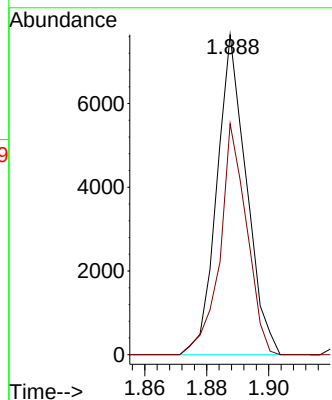
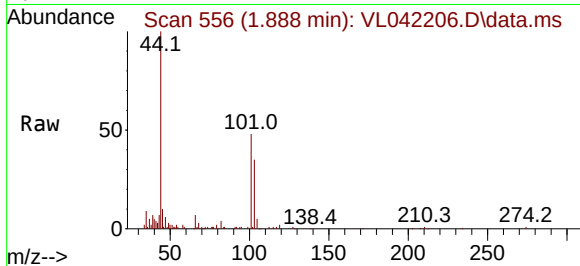
#11
Trichlorofluoromethane
Concen: 0.190 ppbv
RT: 1.888 min Scan# 505
Delta R.T. 0.013 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-1-3262025DUP

Tgt Ion:101 Resp: 505
Ion Ratio Lower Upper
101 100
103 72.2 50.2 75.2

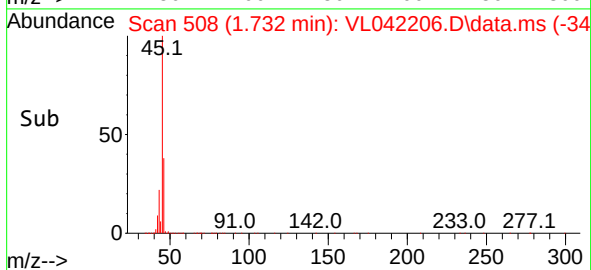
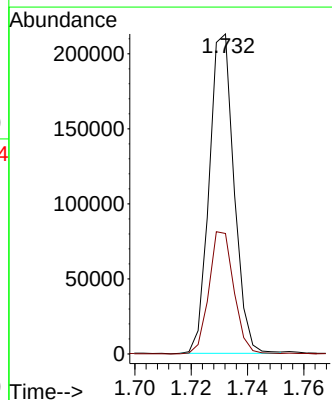
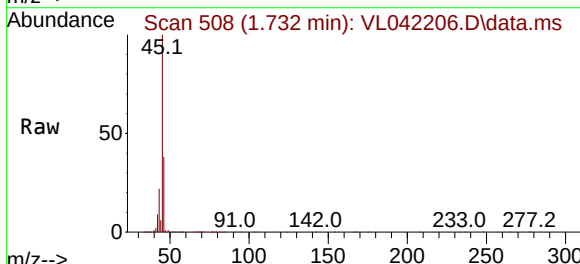
Manual Integrations
APPROVED

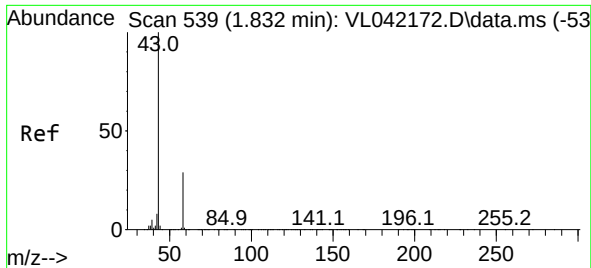
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#13
Ethanol
Concen: 107.874 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.013 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

Tgt Ion: 45 Resp: 130271
Ion Ratio Lower Upper
45 100
46 39.2 20.2 80.8





#15

Acetone

Concen: 22.197 ppbv m

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042206.D

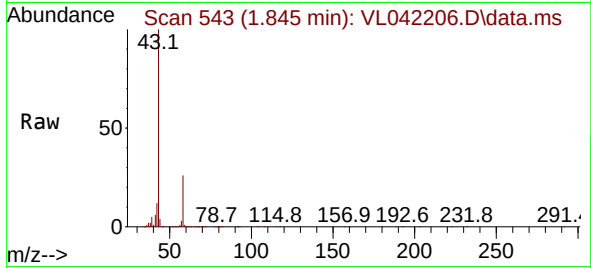
Acq: 31 Mar 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

SSSG-DUP-1-3262025DUP



Tgt Ion: 43 Resp: 573624

Ion Ratio Lower Upper

43 100

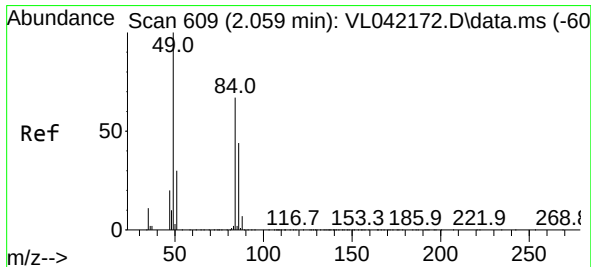
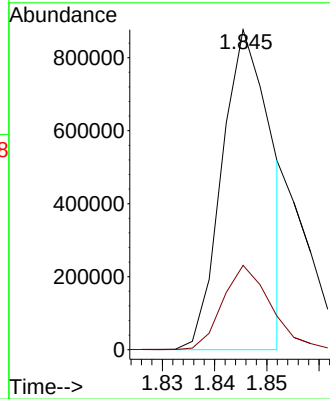
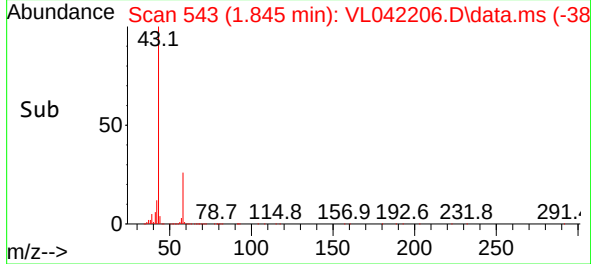
58 26.2 23.2 34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025

Supervised By :Mahesh Dadoda 04/01/2025



#20

Methylene Chloride

Concen: 0.532 ppbv

RT: 2.072 min Scan# 613

Delta R.T. 0.013 min

Lab File: VL042206.D

Acq: 31 Mar 2025 12:26

Tgt Ion: 84 Resp: 5120

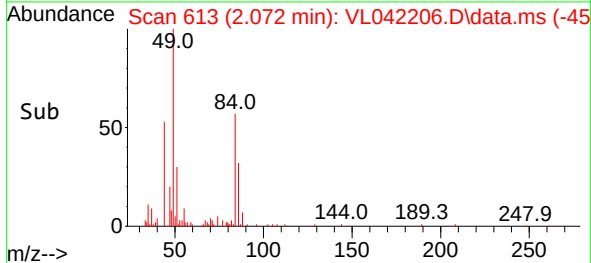
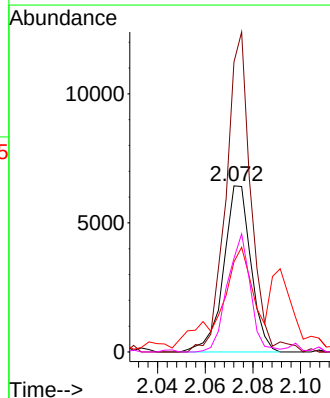
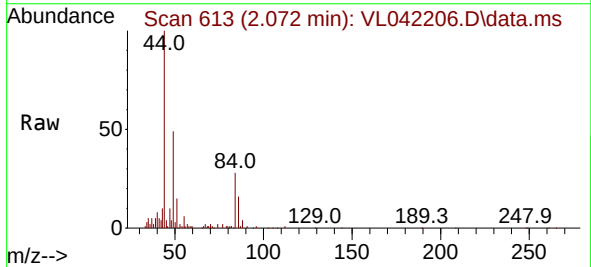
Ion Ratio Lower Upper

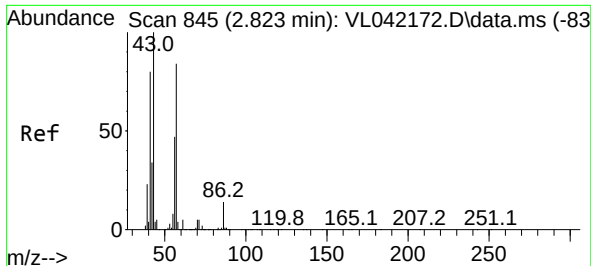
84 100

49 174.5 120.2 180.4

51 46.7 37.4 56.0

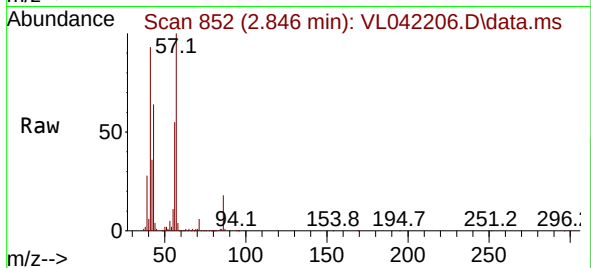
86 56.3 52.4 78.6





#26
Hexane
Concen: 4.564 ppbv
RT: 2.846 min Scan# 81
Delta R.T. 0.023 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

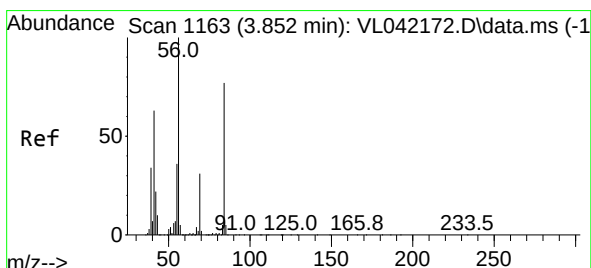
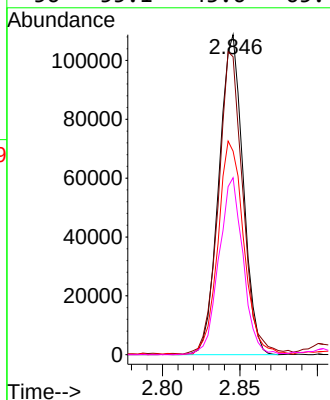
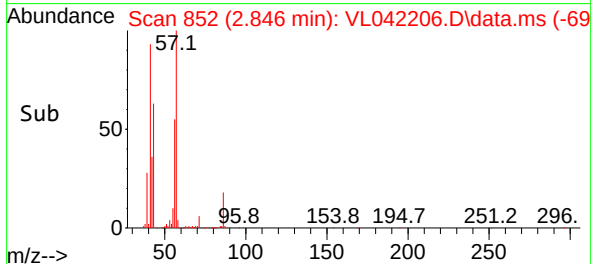
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-1-3262025DUP



Tgt Ion: 57 Resp: 11824
Ion Ratio Lower Upper
57 100
41 95.8 76.6 114.8
43 70.5 207.8 311.8
56 55.1 43.6 65.4

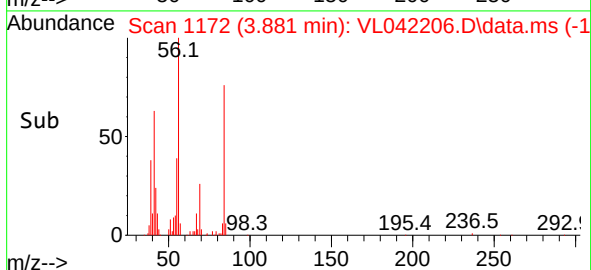
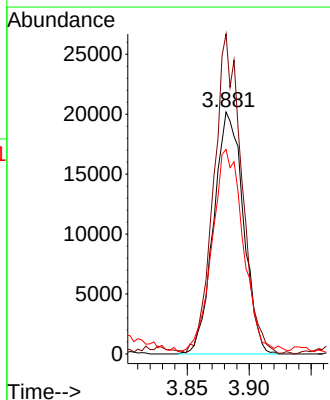
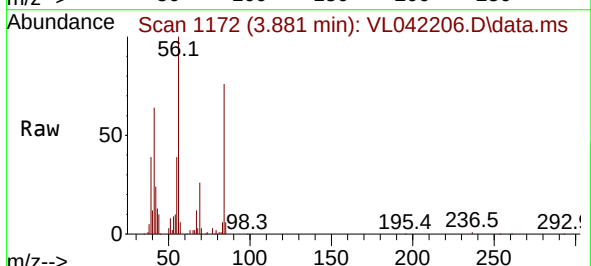
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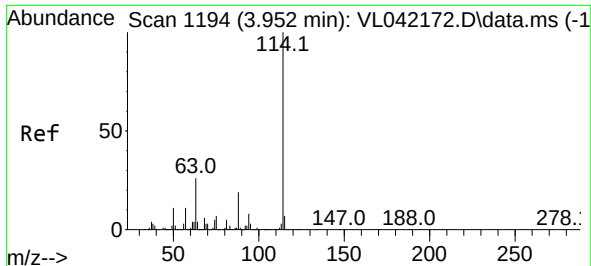
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#30
Cyclohexane
Concen: 1.497 ppbv
RT: 3.881 min Scan# 1172
Delta R.T. 0.029 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

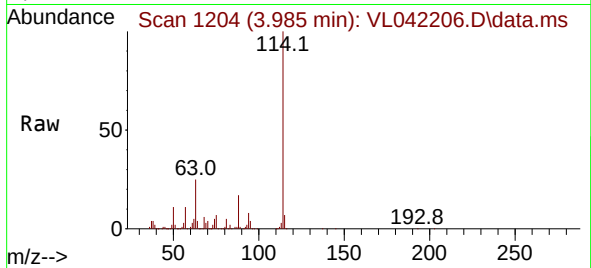
Tgt Ion: 84 Resp: 33679
Ion Ratio Lower Upper
84 100
56 122.5 102.8 154.2
41 89.4 66.5 99.7





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.985 min Scan# 1194
Delta R.T. 0.032 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

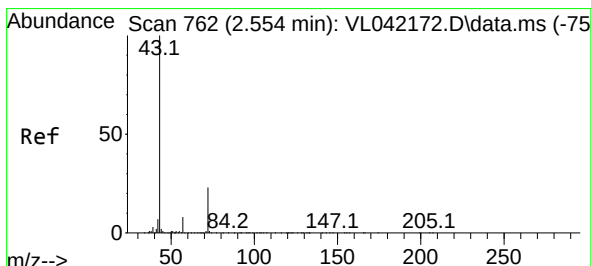
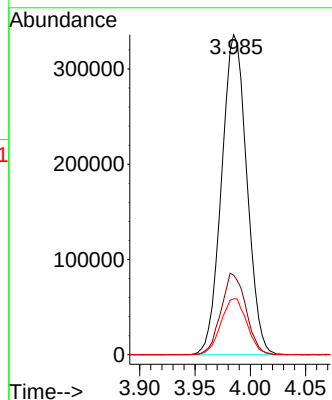
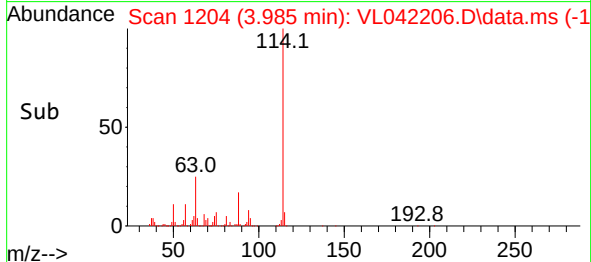
Instrument : MSVOA_L
ClientSampleId : SSSG-DUP-1-3262025DUP



Tgt Ion:114 Resp: 53371
Ion Ratio Lower Upper
114 100
63 25.2 20.7 31.1
88 18.0 15.0 22.4

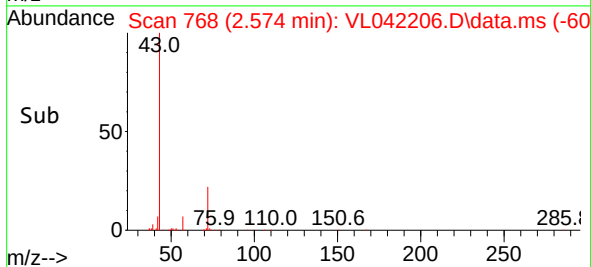
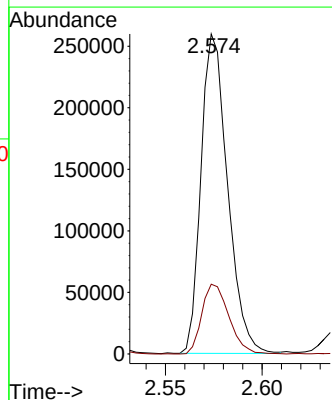
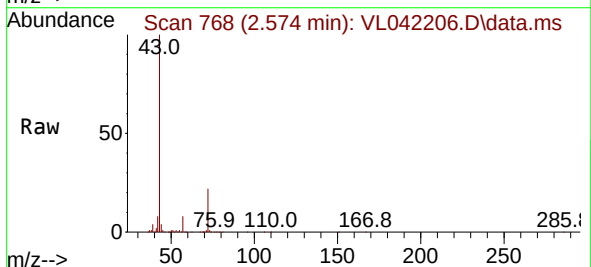
Manual Integrations
APPROVED

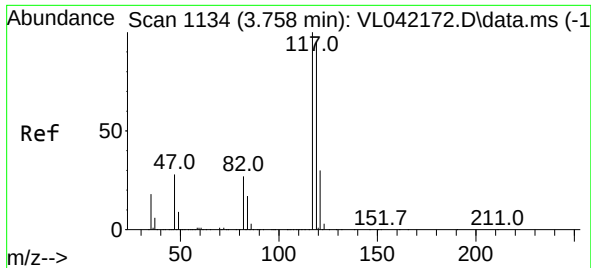
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#34
2-Butanone
Concen: 6.413 ppbv
RT: 2.574 min Scan# 768
Delta R.T. 0.020 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

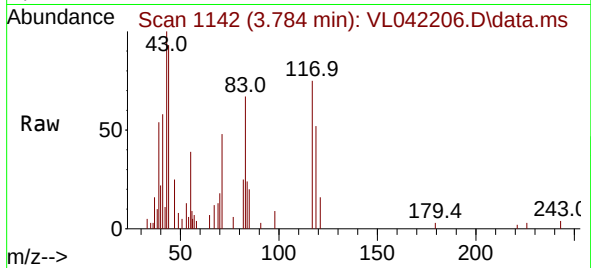
Tgt Ion: 43 Resp: 248177
Ion Ratio Lower Upper
43 100
72 22.3 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.066 ppbv
RT: 3.784 min Scan# 1110
Delta R.T. 0.026 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

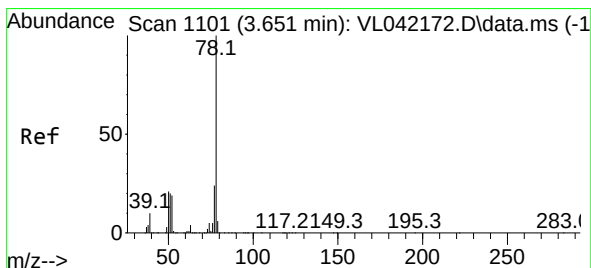
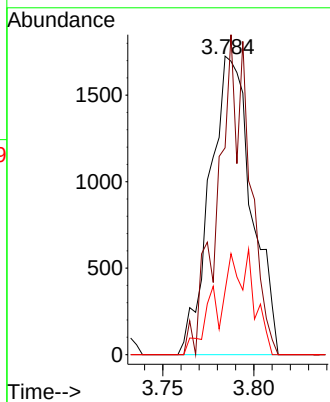
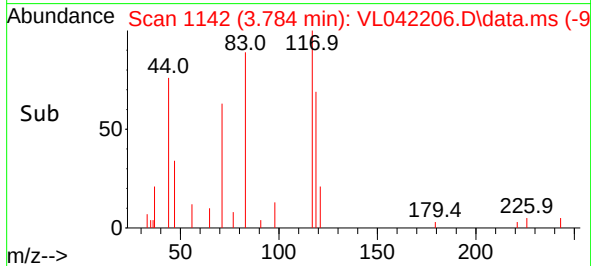
Instrument : MSVOA_L
ClientSampleId : SSSG-DUP-1-3262025DUP



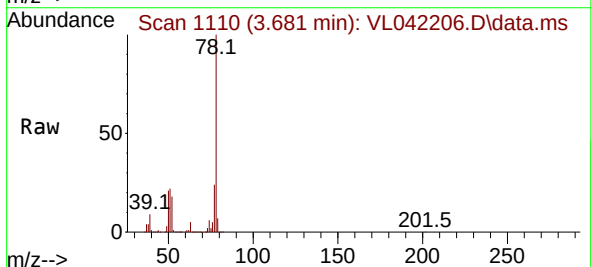
Tgt Ion: 117 Resp: 2730
Ion Ratio Lower Upper
117 100
119 69.3 76.2 114.2
121 21.4 24.2 36.4

Manual Integrations
APPROVED

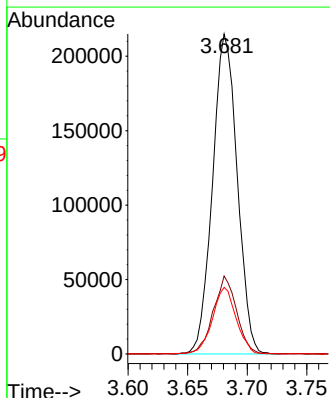
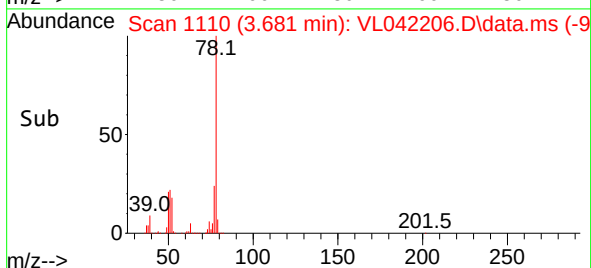
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025

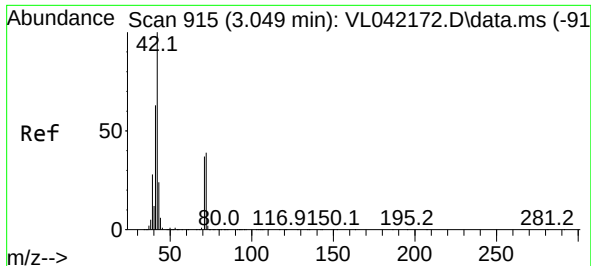


#36
Benzene
Concen: 5.842 ppbv
RT: 3.681 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26



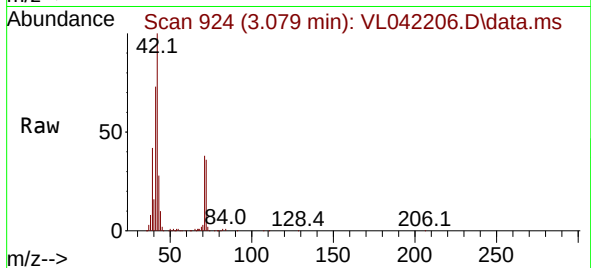
Tgt Ion: 78 Resp: 309110
Ion Ratio Lower Upper
78 100
77 24.3 19.1 28.7
50 20.8 16.6 24.8





#41
Tetrahydrofuran
Concen: 1.948 ppbv
RT: 3.079 min Scan# 915
Delta R.T. 0.029 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

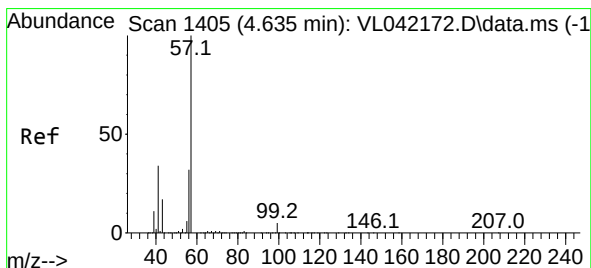
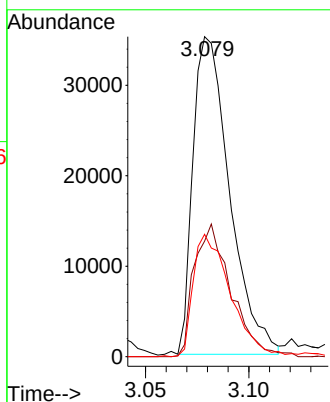
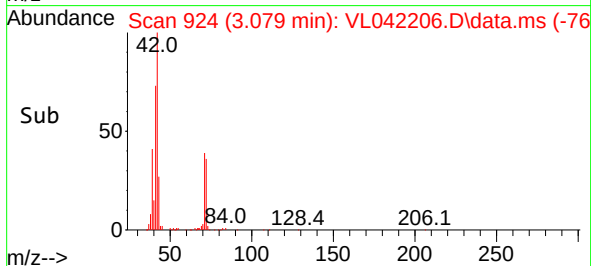
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-1-3262025DUP



Tgt Ion: 42 Resp: 43424
Ion Ratio Lower Upper
42 100
72 42.0 31.4 47.0
71 39.9 30.2 45.4

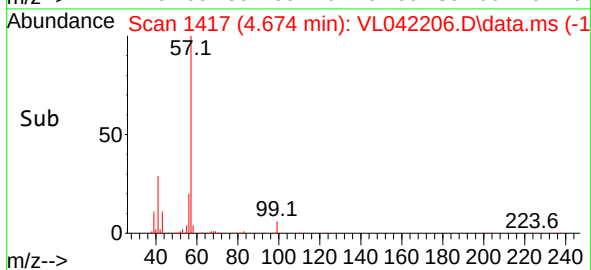
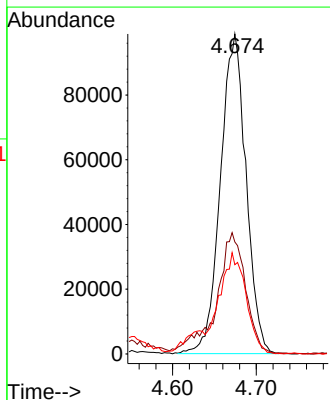
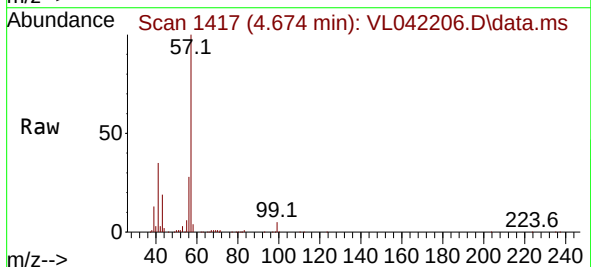
Manual Integrations
APPROVED

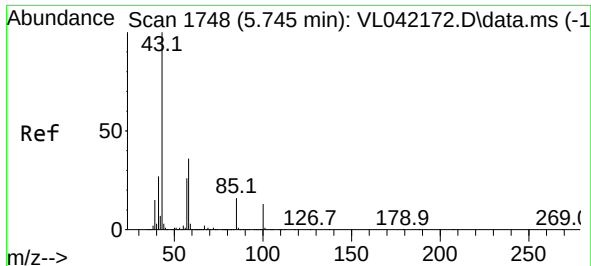
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#44
2,2,4-Trimethylpentane
Concen: 2.346 ppbv
RT: 4.674 min Scan# 1417
Delta R.T. 0.039 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

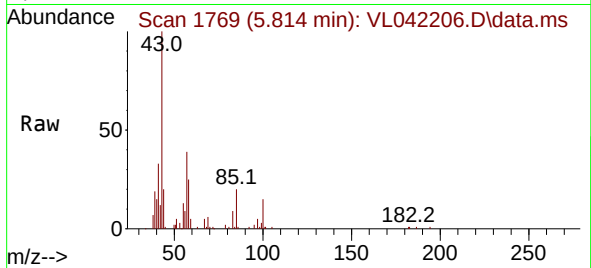
Tgt Ion: 57 Resp: 209735
Ion Ratio Lower Upper
57 100
41 43.9 26.8 40.2#
56 38.4 25.6 38.4#





#50
4-Methyl-2-Pentanone
Concen: 0.411 ppbv m
RT: 5.814 min Scan# 1769
Delta R.T. 0.068 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

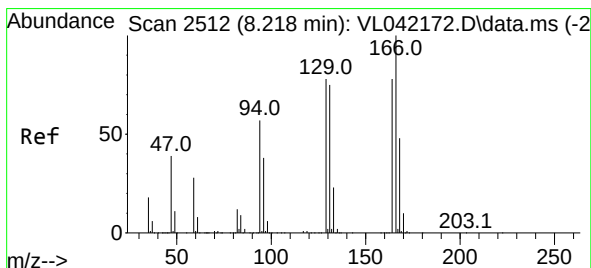
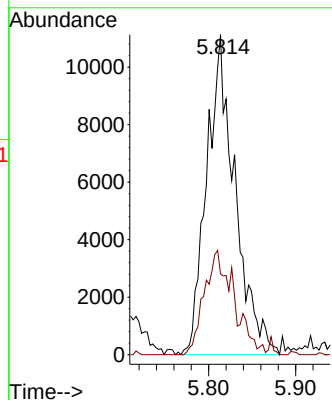
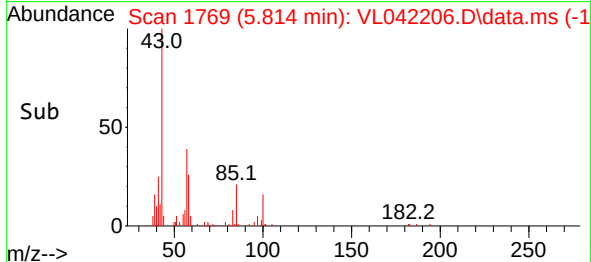
Instrument : MSVOA_L
ClientSampleId : SSSG-DUP-1-3262025DUP



Tgt Ion: 43 Resp: 2520
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6

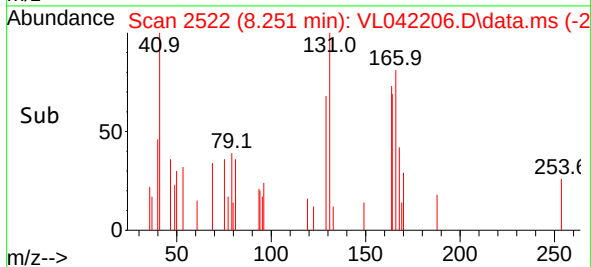
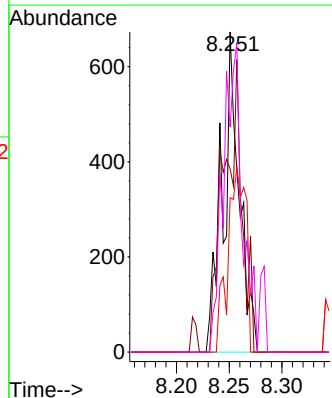
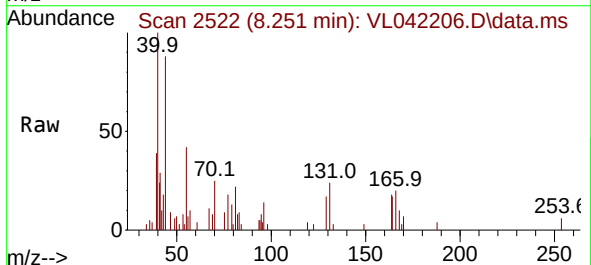
Manual Integrations
APPROVED

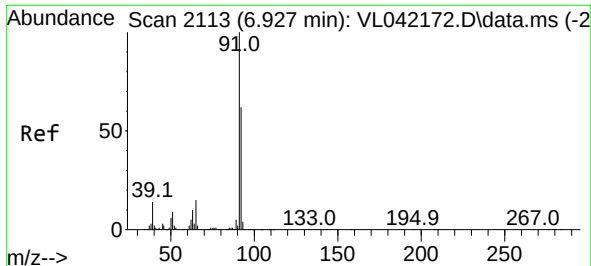
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#52
Tetrachloroethene
Concen: 0.035 ppbv m
RT: 8.251 min Scan# 2522
Delta R.T. 0.032 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

Tgt Ion:164 Resp: 739
Ion Ratio Lower Upper
164 100
166 111.0 102.5 153.7
129 93.4 79.8 119.8
131 136.3 76.6 114.8#





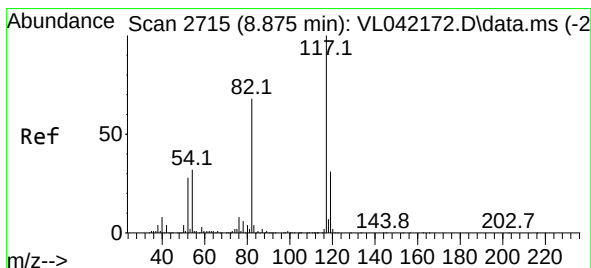
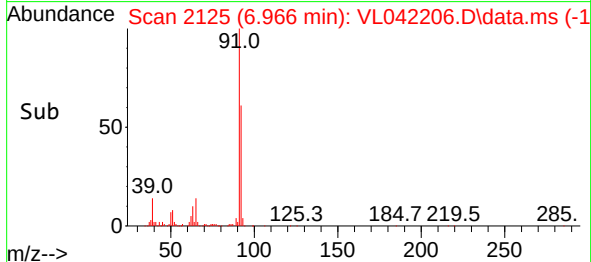
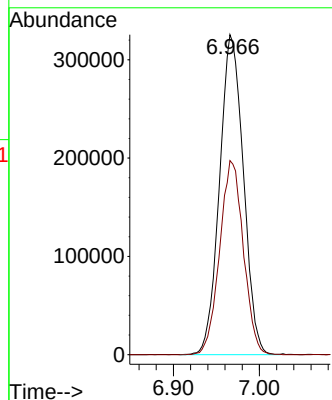
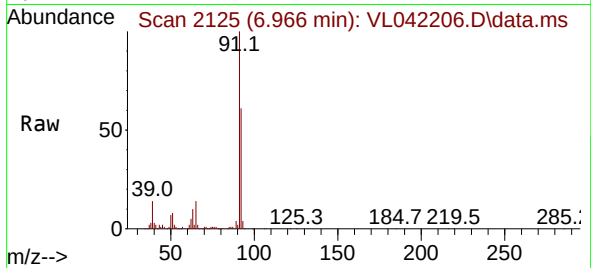
#53
Toluene
Concen: 9.980 ppbv
RT: 6.966 min Scan# 2113
Delta R.T. 0.039 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-1-3262025DUP

Tgt Ion: 91 Resp: 625978
Ion Ratio Lower Upper
91 100
92 60.3 48.4 72.6

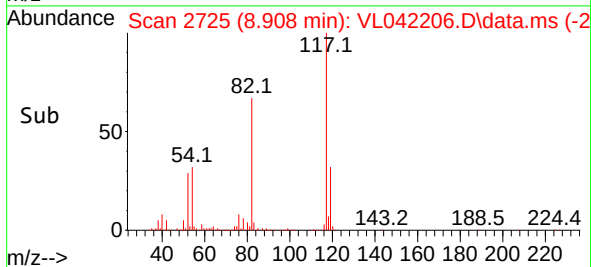
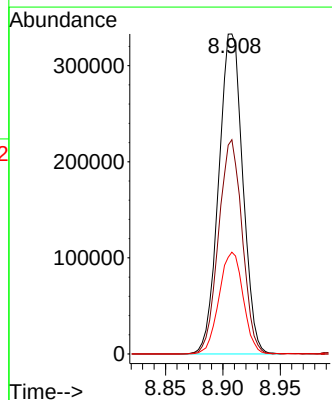
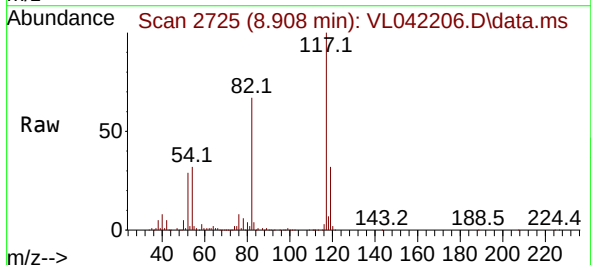
Manual Integrations
APPROVED

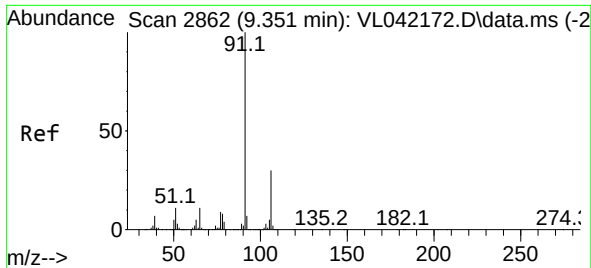
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.908 min Scan# 2725
Delta R.T. 0.032 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

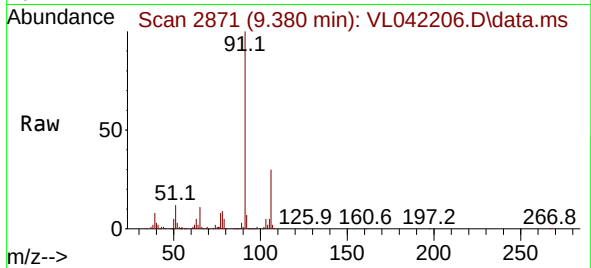
Tgt Ion:117 Resp: 486289
Ion Ratio Lower Upper
117 100
82 65.8 55.8 83.6
119 31.9 25.5 38.3





#58
Ethyl Benzene
Concen: 1.357 ppbv
RT: 9.380 min Scan# 2117
Delta R.T. 0.029 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

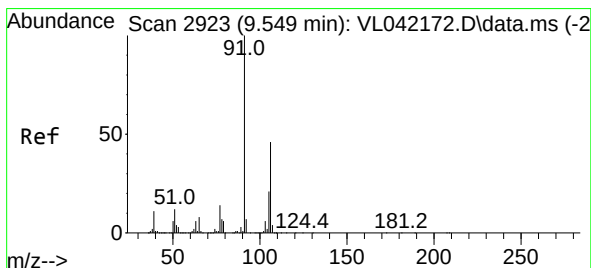
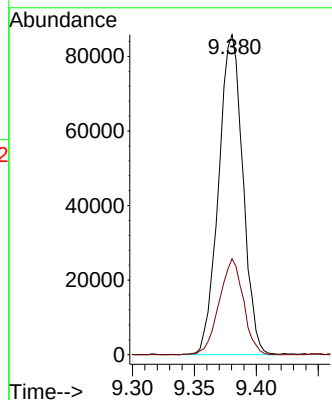
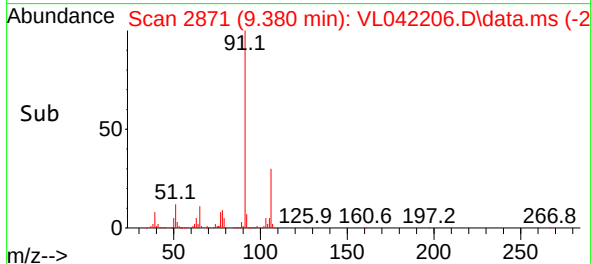
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-1-3262025DUP



Tgt Ion: 91 Resp: 117204
Ion Ratio Lower Upper
91 100
106 30.0 24.2 36.2

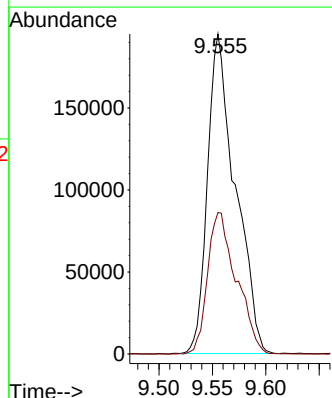
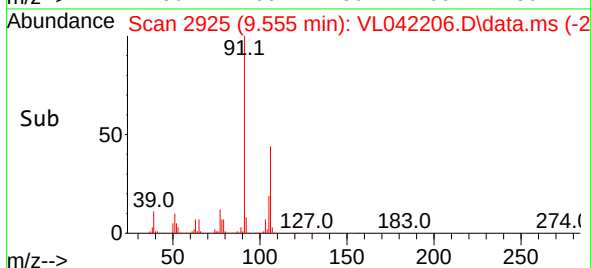
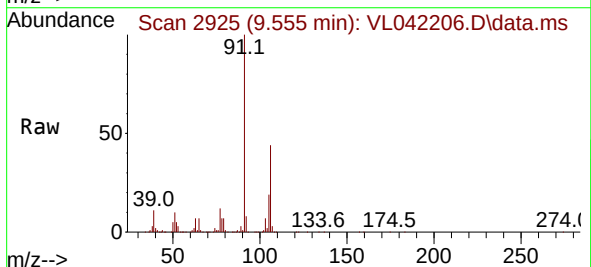
Manual Integrations
APPROVED

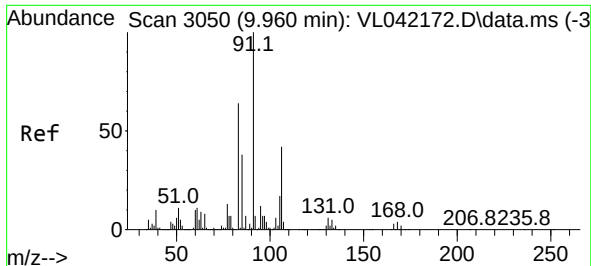
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#59
m/p-Xylene
Concen: 5.119 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.007 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

Tgt Ion: 91 Resp: 353075
Ion Ratio Lower Upper
91 100
106 45.9 36.4 54.6





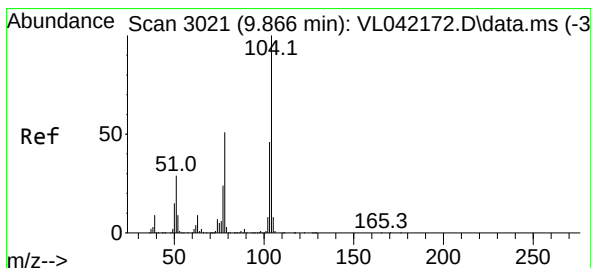
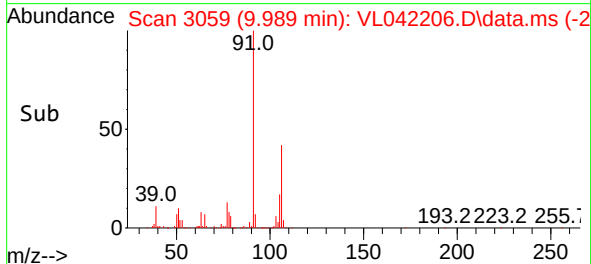
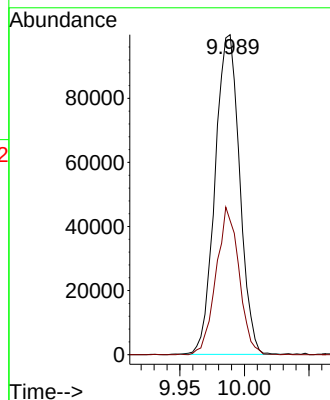
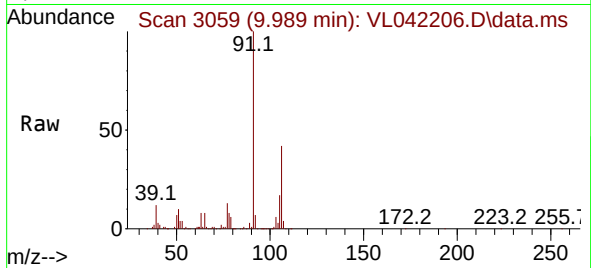
#60
o-Xylene
Concen: 1.908 ppbv
RT: 9.989 min Scan# 3050
Delta R.T. 0.029 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

Instrument : MSVOA_L
ClientSampleId : SSSG-DUP-1-3262025DUP

Tgt Ion: 91 Resp: 131910
Ion Ratio Lower Upper
91 100
106 43.2 20.8 62.5

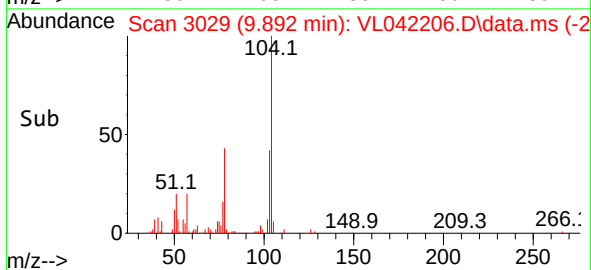
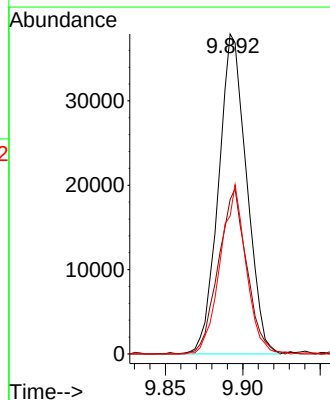
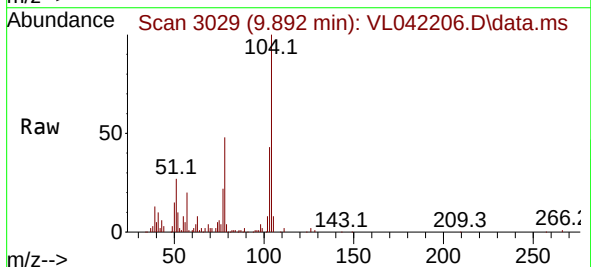
Manual Integrations
APPROVED

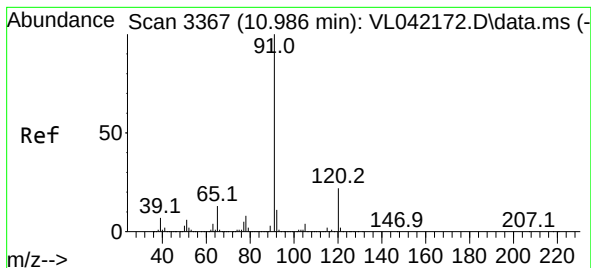
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#61
Styrene
Concen: 1.398 ppbv
RT: 9.892 min Scan# 3029
Delta R.T. 0.026 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

Tgt Ion:104 Resp: 47838
Ion Ratio Lower Upper
104 100
78 52.6 41.8 62.6
103 48.6 37.0 55.4





#64

n-propylbenzene

Concen: 0.229 ppbv

RT: 11.008 min Scan# 3185

Delta R.T. 0.023 min

Lab File: VL042206.D

Acq: 31 Mar 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

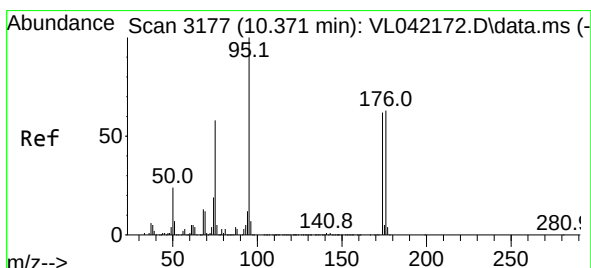
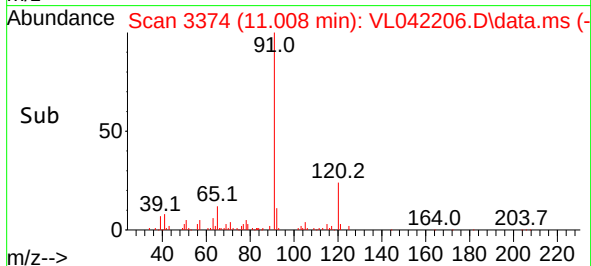
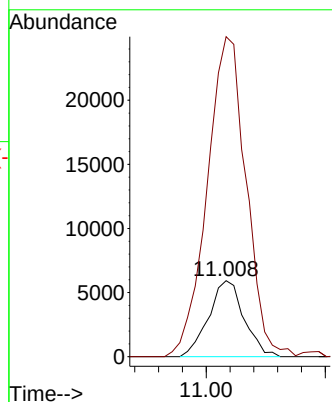
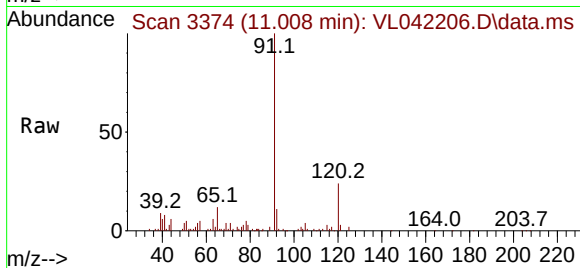
SSSG-DUP-1-3262025DUP

Tgt Ion:120 Resp: 6104
 Ion Ratio Lower Upper
 120 100
 91 469.0 376.9 565.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025
 Supervised By :Mahesh Dadoda 04/01/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.852 ppbv

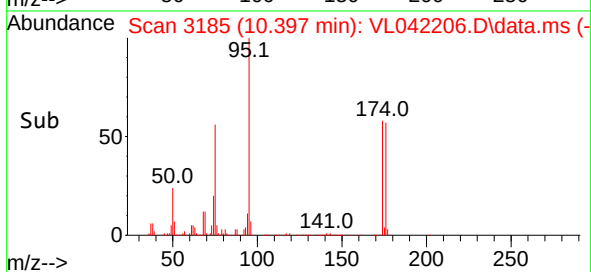
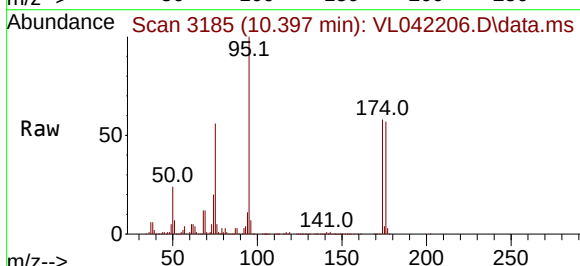
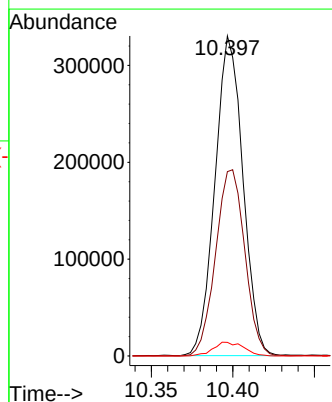
RT: 10.397 min Scan# 3185

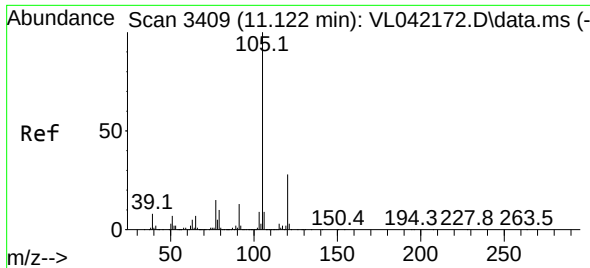
Delta R.T. 0.026 min

Lab File: VL042206.D

Acq: 31 Mar 2025 12:26

Tgt Ion: 95 Resp: 393432
 Ion Ratio Lower Upper
 95 100
 174 60.9 50.6 76.0
 175 4.7 3.8 5.6





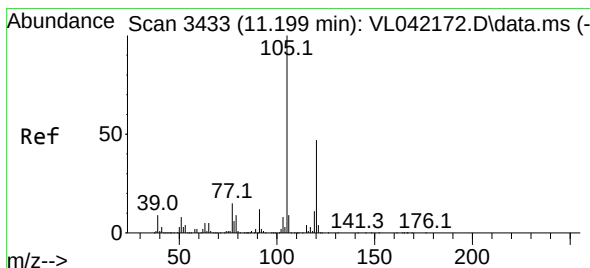
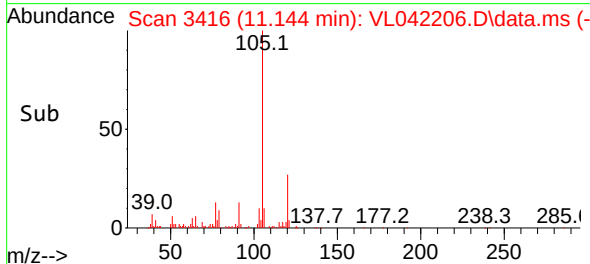
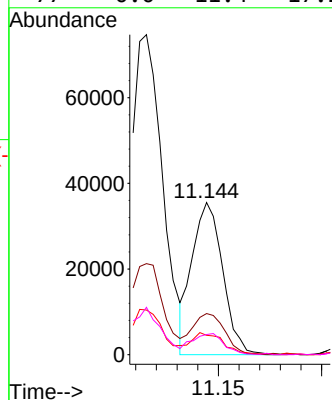
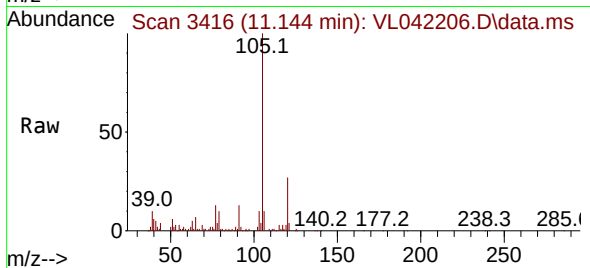
#72
4-Ethyltoluene
Concen: 0.429 ppbv
RT: 11.144 min Scan# 3409
Delta R.T. 0.023 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-1-3262025DUP

Tgt Ion:105	Resp:	36900
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.4
91	0.0	10.3
77	0.0	11.4

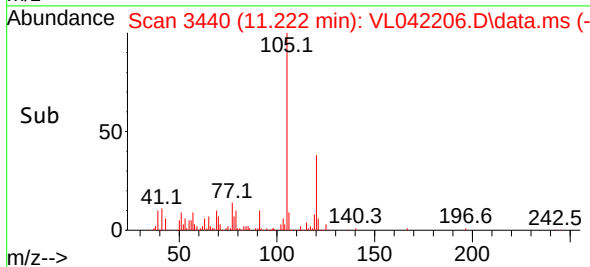
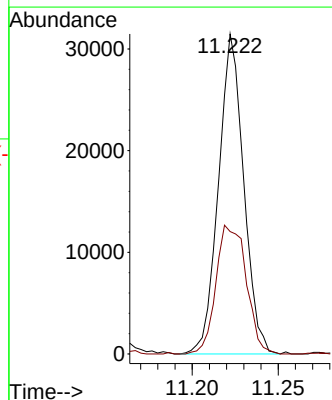
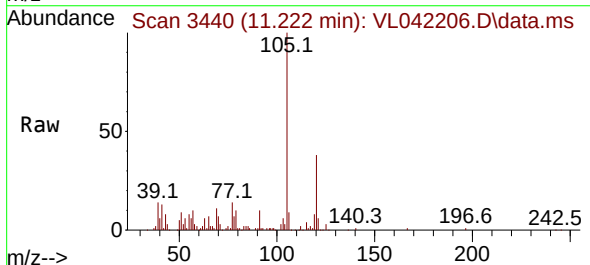
Manual Integrations
APPROVED

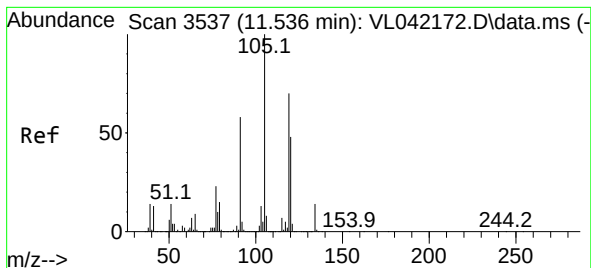
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.427 ppbv
RT: 11.222 min Scan# 3440
Delta R.T. 0.023 min
Lab File: VL042206.D
Acq: 31 Mar 2025 12:26

Tgt Ion:105	Resp:	32118
Ion Ratio	Lower	Upper
105	100	
120	38.2	37.4





#74

1,2,4-Trimethylbenzene

Concen: 1.336 ppbv

RT: 11.552 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL042206.D

Acq: 31 Mar 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

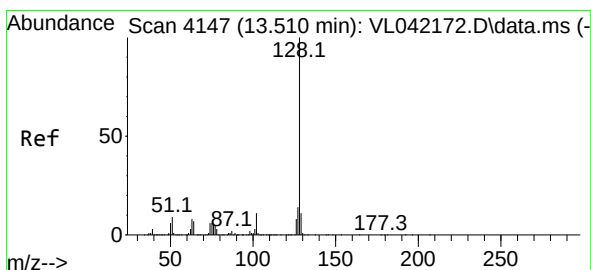
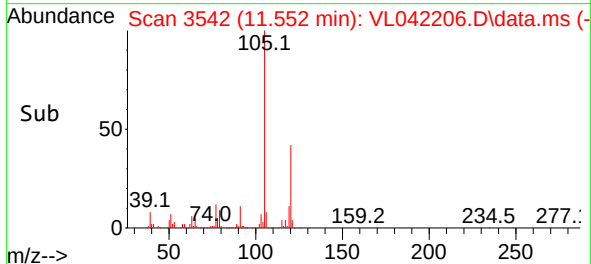
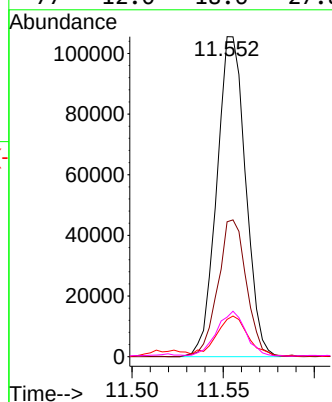
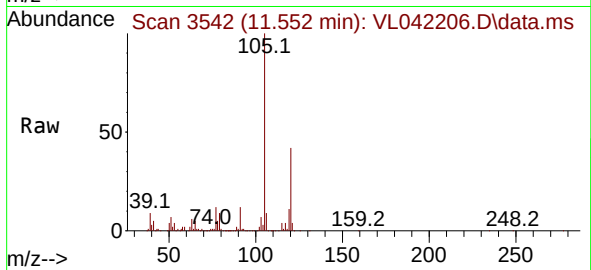
SSSG-DUP-1-3262025DUP

Tgt Ion:	105	Resp:	11574
Ion Ratio	Lower	Upper	
105	100		
120	42.1	38.6	58.0
91	11.2	46.2	69.2
77	12.0	18.6	27.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#79

Naphthalene

Concen: 0.366 ppbv

RT: 13.530 min Scan# 4153

Delta R.T. 0.020 min

Lab File: VL042206.D

Acq: 31 Mar 2025 12:26

Tgt Ion:	128	Resp:	34692
Ion Ratio	Lower	Upper	
128	100		
127	13.6	10.8	16.2
129	12.1	9.0	13.4

