

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042235.D
 Acq On : 07 Apr 2025 14:51
 Operator : SY/MD
 Sample : Q1725-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:32:36 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)

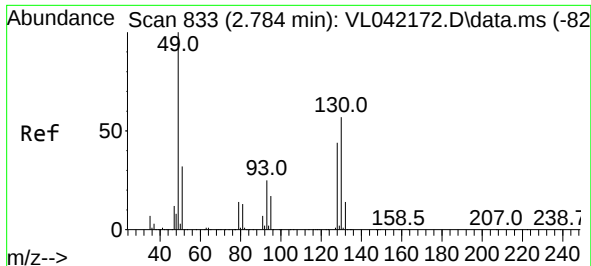
Internal Standards						
1) Bromochloromethane	2.803	49	200550	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	538469	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	487966	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	392922	9.805	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.502	85	11812	0.399	ppbv	99
4) Chloromethane	1.538	50	1607	0.133	ppbv	97
9) Propene	1.492	41	34124m	2.461	ppbv	
10) Heptane	5.004	43	5459m	0.148	ppbv	
11) Trichlorofluoromethane	1.887	101	6560	0.228	ppbv	97
13) Ethanol	1.729	45	165486	126.257	ppbv	81
15) Acetone	1.842	43	878596	31.325	ppbv	97
17) tert-Butyl alcohol	2.052	59	17125m	0.490	ppbv	
18) 1,1-Dichloroethene	2.046	96	17208	1.554	ppbv	98
19) Isopropyl Alcohol	1.894	45	429215	27.122	ppbv #	85
20) Methylene Chloride	2.072	84	7004	0.670	ppbv #	81
26) Hexane	2.842	57	12578	0.447	ppbv #	1
29) Chloroform	2.865	83	5091112	123.718	ppbv #	64
32) 1,1,1-Trichloroethane	3.389	97	5002	0.106	ppbv	96
34) 2-Butanone	2.573	43	26940	0.690	ppbv	99
35) Carbon Tetrachloride	3.787	117	149549	3.555	ppbv	97
36) Benzene	3.677	78	12945m	0.242	ppbv	
38) Trichloroethene	4.577	130	20401	0.916	ppbv #	83
42) Bromodichloromethane	4.519	83	17527m	0.416	ppbv	
52) Tetrachloroethene	8.247	164	66227	3.128	ppbv	96
53) Toluene	6.962	91	88021	1.391	ppbv	99
57) Chlorobenzene	8.940	112	7168m	0.155	ppbv	
58) Ethyl Benzene	9.377	91	22956	0.265	ppbv #	87
59) m/p-Xylene	9.552	91	78245	1.131	ppbv	100
60) o-Xylene	9.982	91	26678	0.385	ppbv	97
61) Styrene	9.888	104	11796	0.344	ppbv	95
74) 1,2,4-Trimethylbenzene	11.552	105	33126	0.381	ppbv #	66

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

Manual Integrations

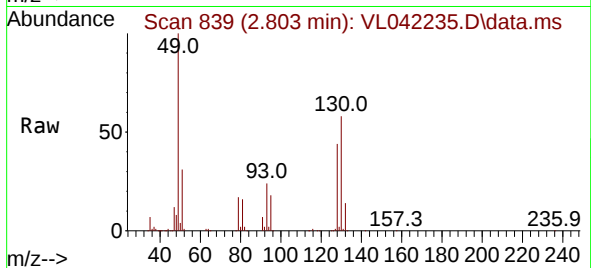
Quant Time: Apr 08 01:32:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

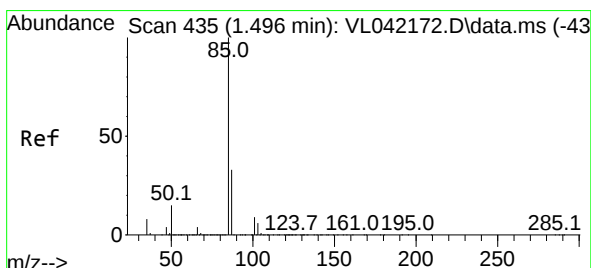
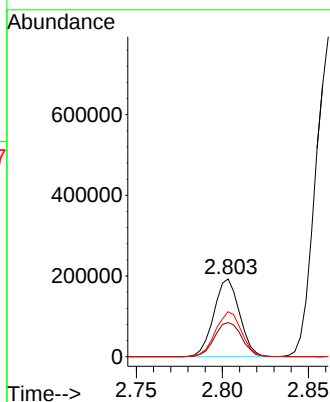
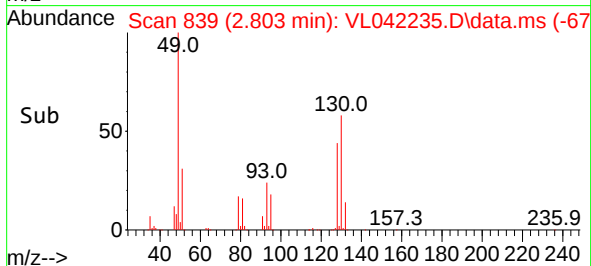
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025



Tgt Ion: 49 Resp: 200550
Ion Ratio Lower Upper
49 100
128 46.5 22.9 68.5
130 58.5 28.8 86.4

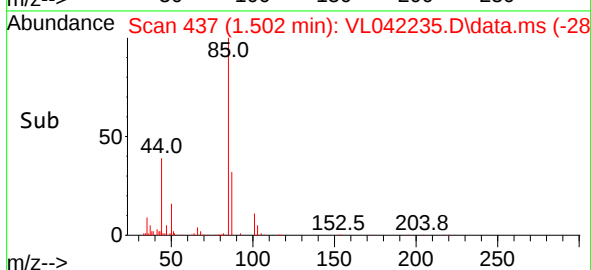
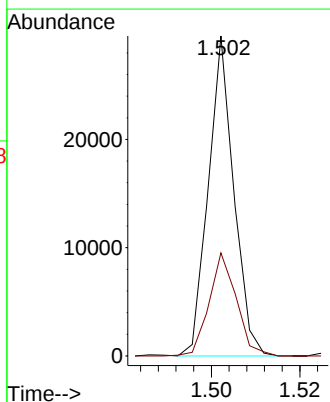
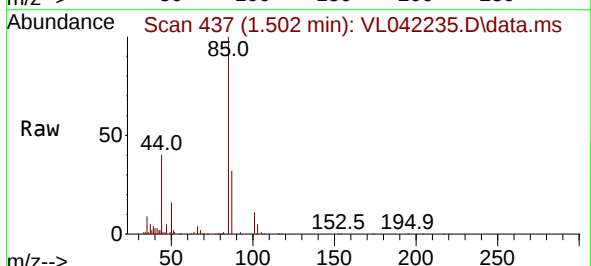
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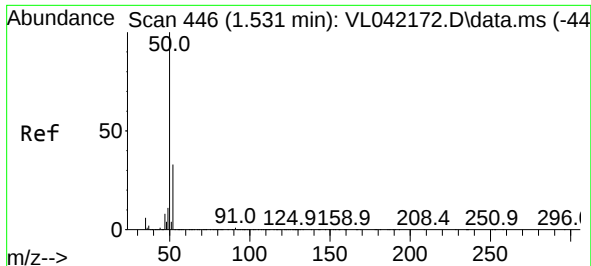
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.399 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 85 Resp: 11812
Ion Ratio Lower Upper
85 100
87 32.2 26.1 39.1





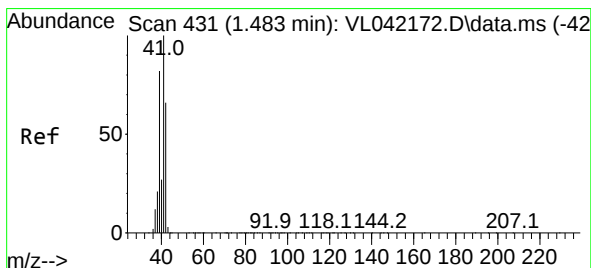
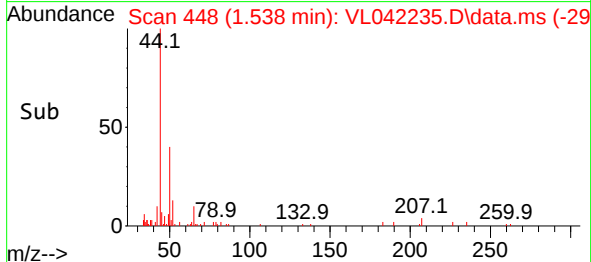
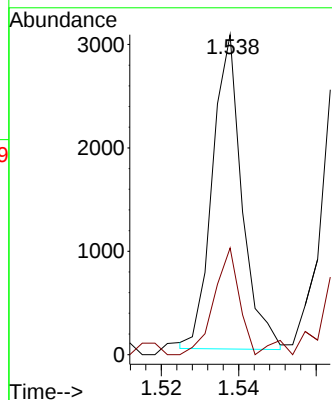
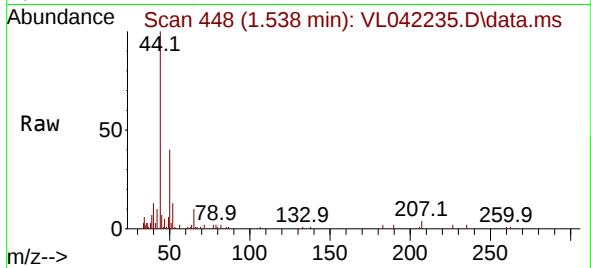
#4
Chloromethane
Concen: 0.133 ppbv
RT: 1.538 min Scan# 446
Delta R.T. 0.006 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Tgt Ion: 50 Resp: 160
Ion Ratio Lower Upper
50 100
52 34.4 26.1 39.1

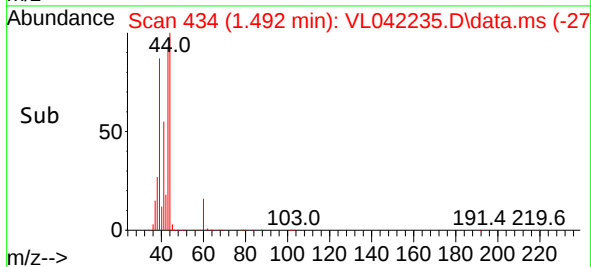
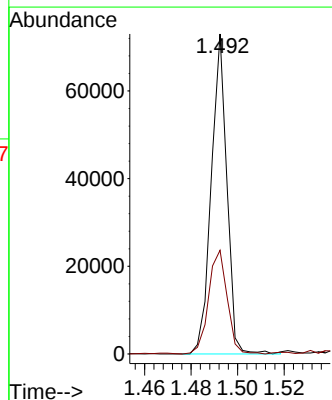
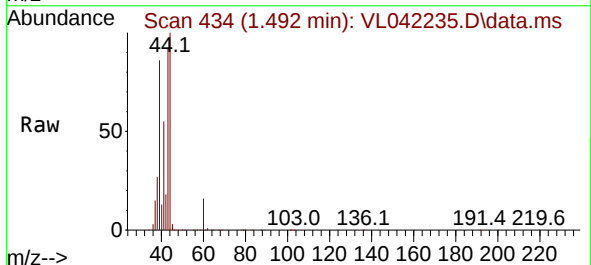
Manual Integrations
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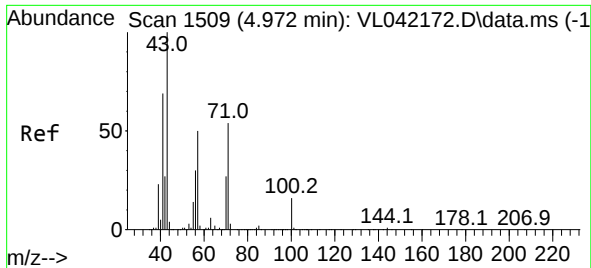
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#9
Propene
Concen: 2.461 ppbv m
RT: 1.492 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

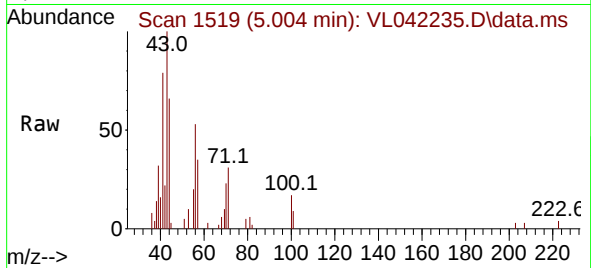
Tgt Ion: 41 Resp: 34124
Ion Ratio Lower Upper
41 100
42 73.3 55.4 83.2





#10
Heptane
Concen: 0.148 ppbv m
RT: 5.004 min Scan# 11
Delta R.T. 0.032 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

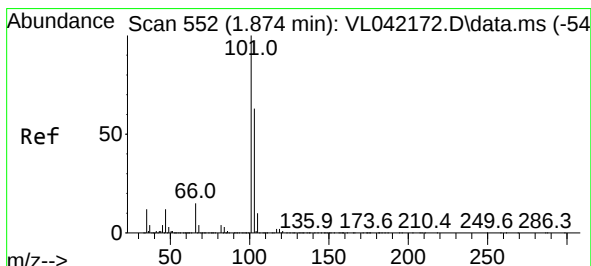
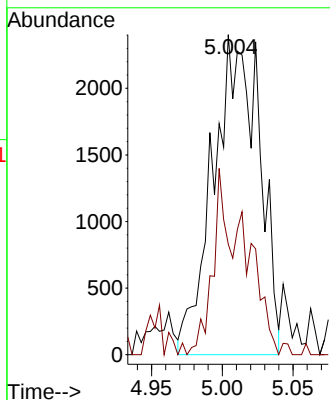
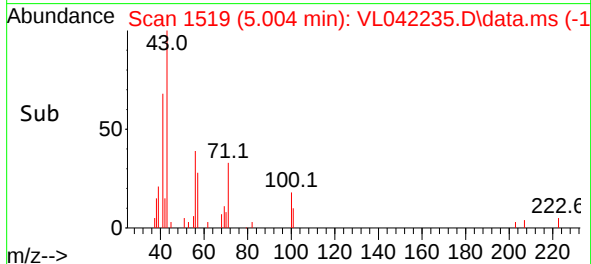
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025



Tgt Ion: 43 Resp: 545
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2

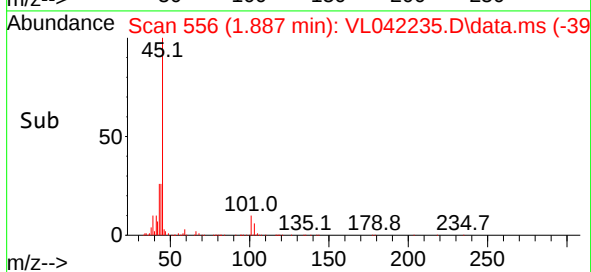
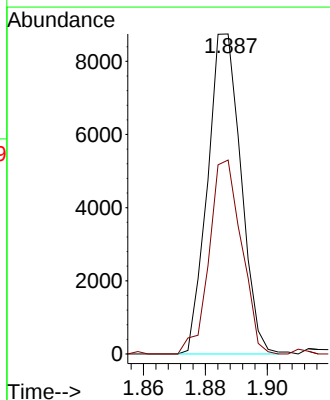
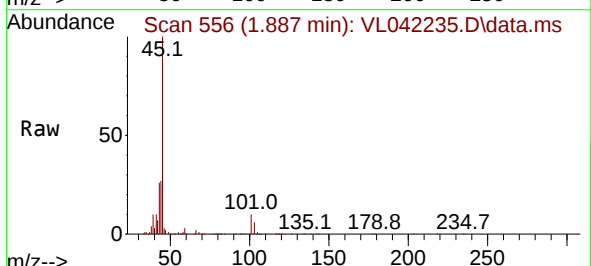
Manual Integrations
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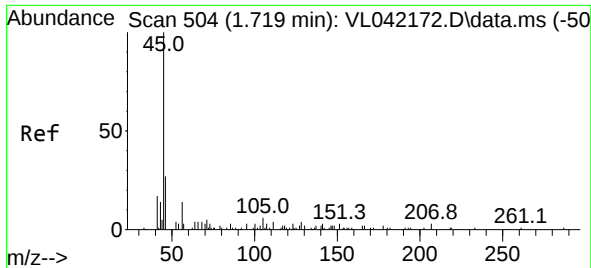
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#11
Trichlorofluoromethane
Concen: 0.228 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.013 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion:101 Resp: 6560
Ion Ratio Lower Upper
101 100
103 60.6 50.2 75.2





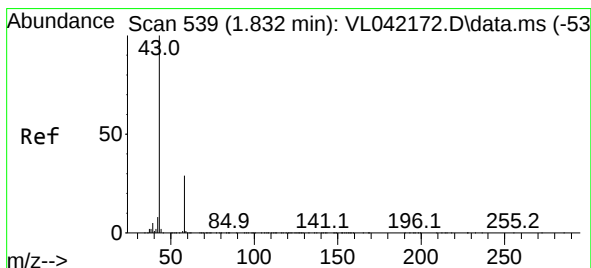
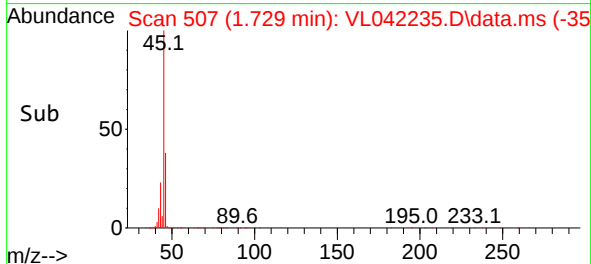
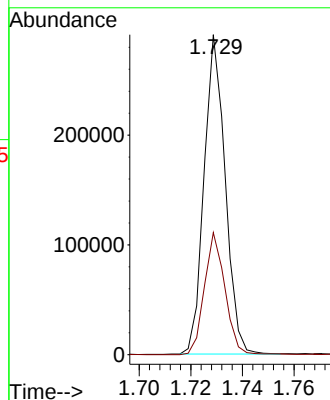
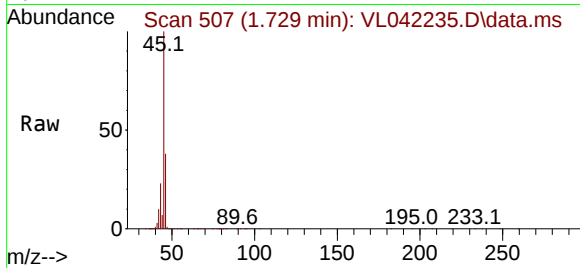
#13
 Ethanol
 Concen: 126.257 ppbv
 RT: 1.729 min Scan# 504
 Delta R.T. 0.010 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025

Tgt Ion: 45 Resp: 165480
 Ion Ratio Lower Upper
 45 100
 46 37.6 20.2 80.8

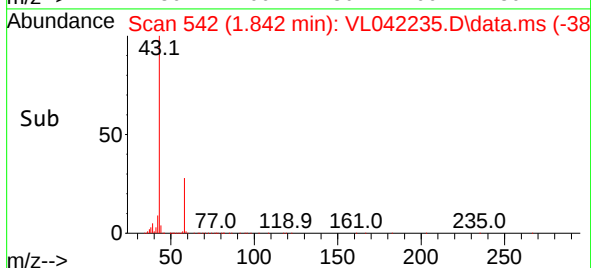
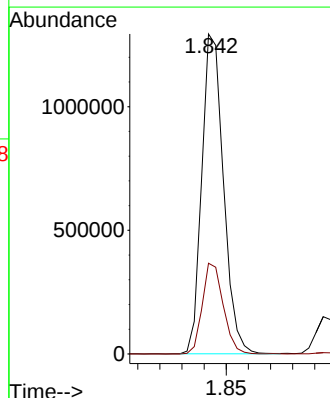
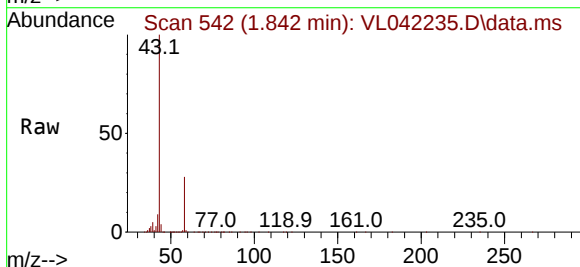
Manual Integrations
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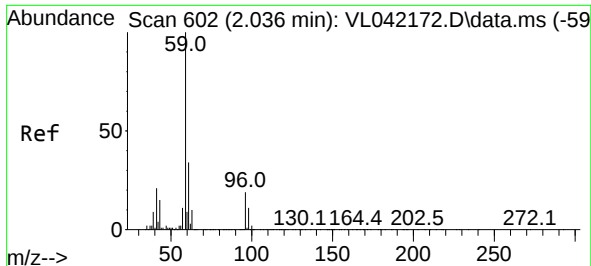
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#15
 Acetone
 Concen: 31.325 ppbv
 RT: 1.842 min Scan# 542
 Delta R.T. 0.010 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51

Tgt Ion: 43 Resp: 878596
 Ion Ratio Lower Upper
 43 100
 58 27.4 23.2 34.8





#17

tert-Butyl alcohol

Concen: 0.490 ppbv m

RT: 2.052 min Scan# 607

Delta R.T. 0.016 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025

Tgt Ion: 59 Resp: 1712

Ion Ratio Lower Upper

59 100

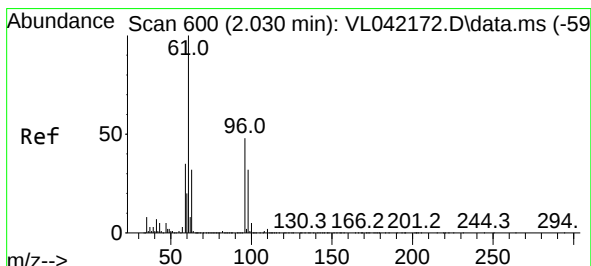
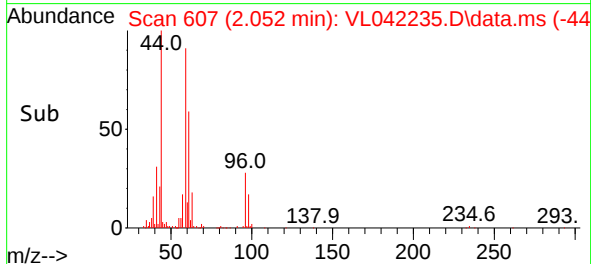
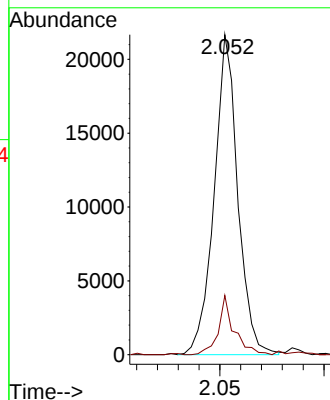
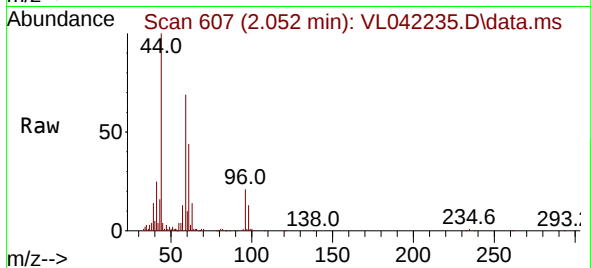
57 11.9 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#18

1,1-Dichloroethene

Concen: 1.554 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.016 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

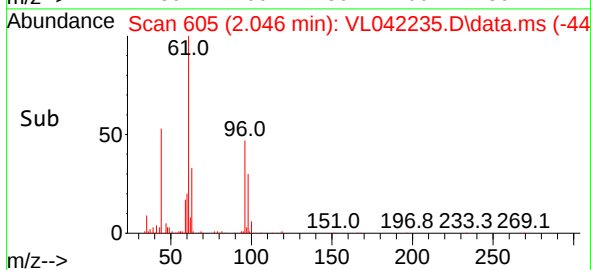
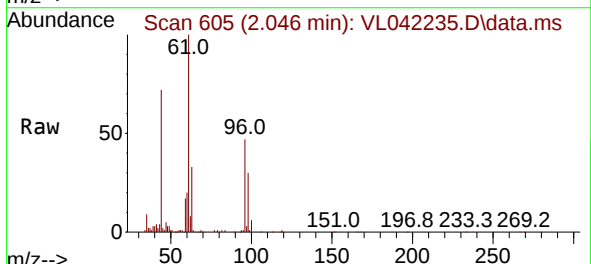
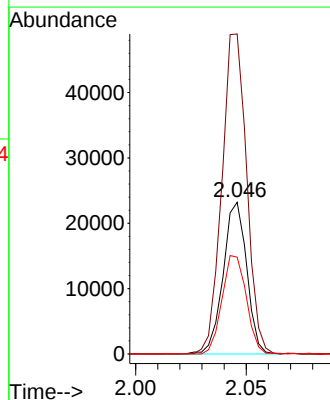
Tgt Ion: 96 Resp: 17208

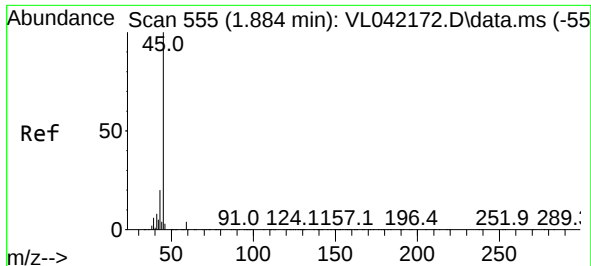
Ion Ratio Lower Upper

96 100

61 210.9 167.6 251.4

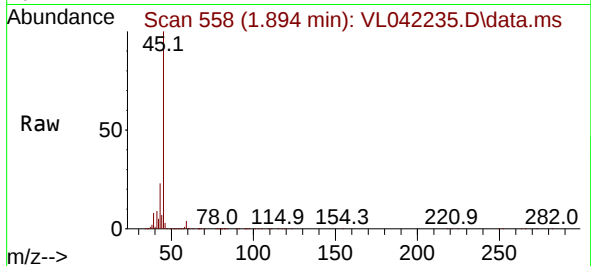
98 63.6 53.5 80.3





#19
Isopropyl Alcohol
Concen: 27.122 ppbv
RT: 1.894 min Scan# 510
Delta R.T. 0.010 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

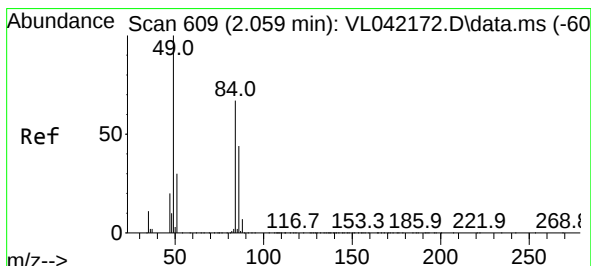
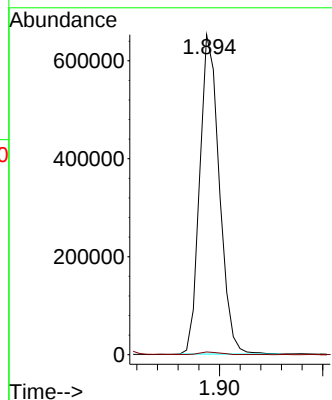
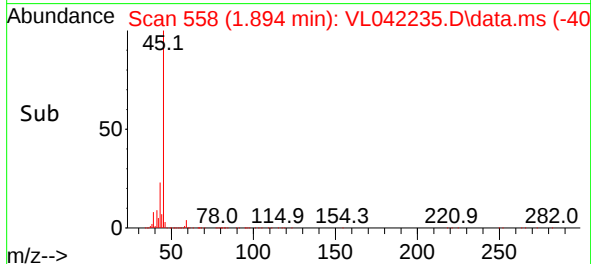
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SSSG-B10-4-04012025



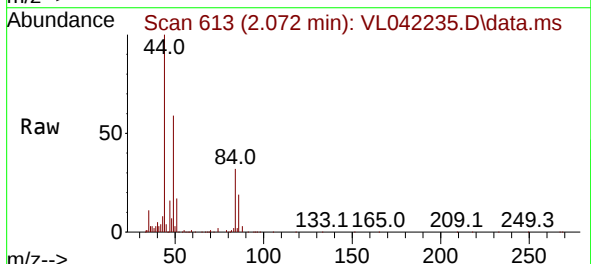
Tgt Ion: 45 Resp: 429215
Ion Ratio Lower Upper
45 100
58 56.0 36.9 55.3

Manual Integrations
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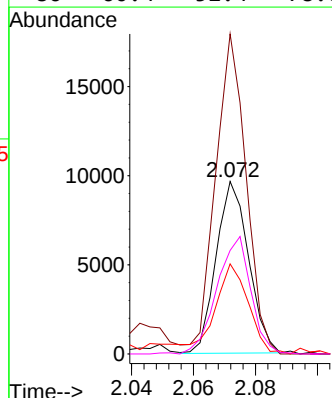
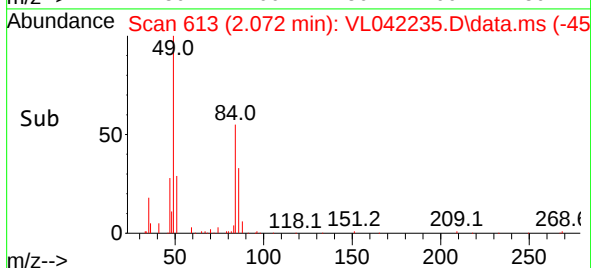
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

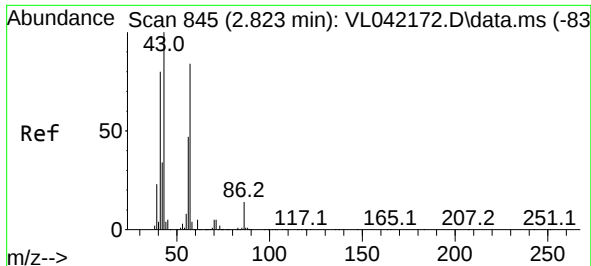


#20
Methylene Chloride
Concen: 0.670 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51



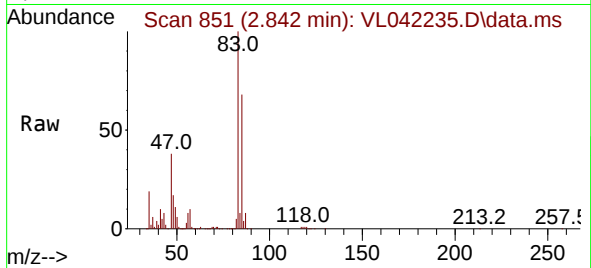
Tgt Ion: 84 Resp: 7004
Ion Ratio Lower Upper
84 100
49 186.7 120.2 180.4
51 50.8 37.4 56.0
86 60.4 52.4 78.6





#26
Hexane
Concen: 0.447 ppbv
RT: 2.842 min Scan# 845
Delta R.T. 0.019 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

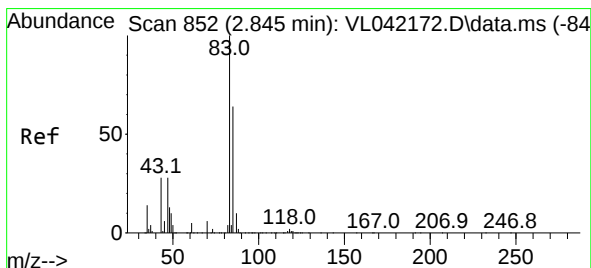
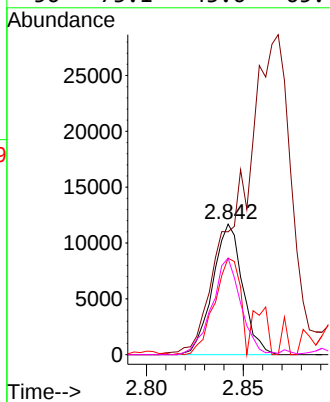
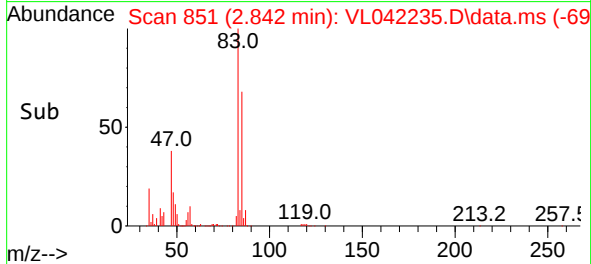
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025



Tgt Ion: 57 Resp: 12578
Ion Ratio Lower Upper
57 100
41 455.4 76.6 114.8
43 86.6 207.8 311.8
56 73.1 43.6 65.4#

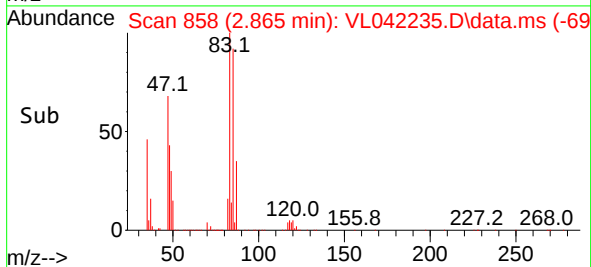
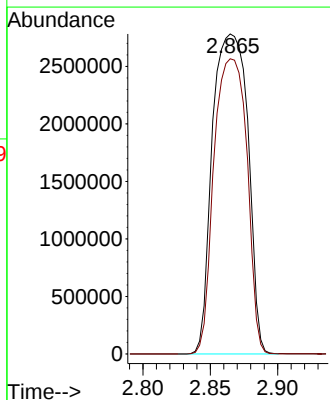
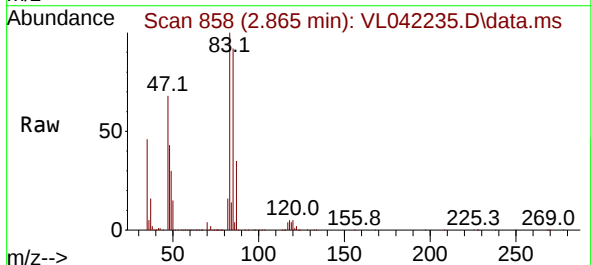
Manual Integrations
APPROVED

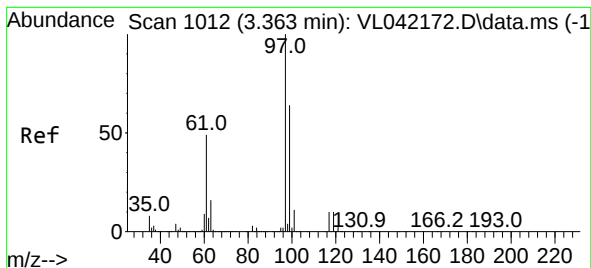
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#29
Chloroform
Concen: 123.718 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.019 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 83 Resp: 5091112
Ion Ratio Lower Upper
83 100
85 92.2 51.4 77.2#





#32

1,1,1-Trichloroethane

Concen: 0.106 ppbv

RT: 3.389 min Scan# 1100

Delta R.T. 0.026 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

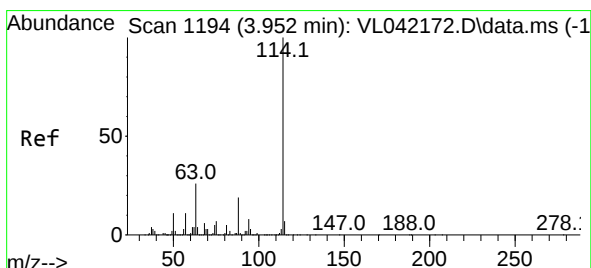
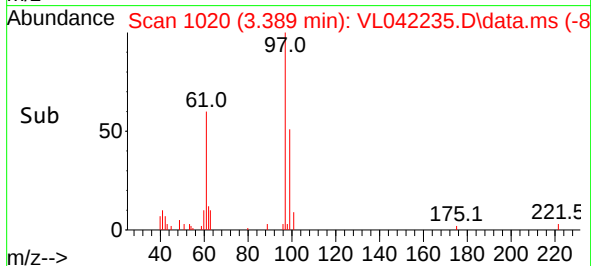
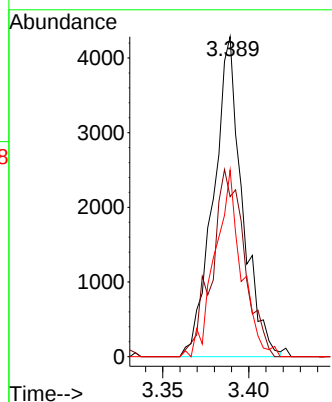
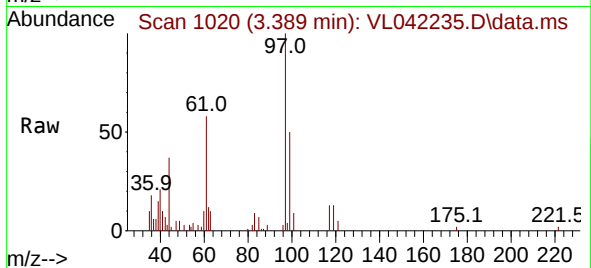
SSSG-B10-4-04012025

Tgt Ion: 97	Resp: 500
Ion Ratio	Lower Upper
97	100
99	65.8 51.5 77.3
61	53.9 38.7 58.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

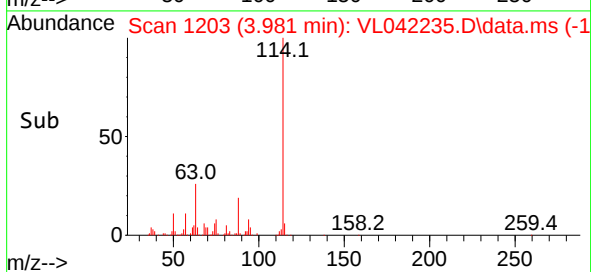
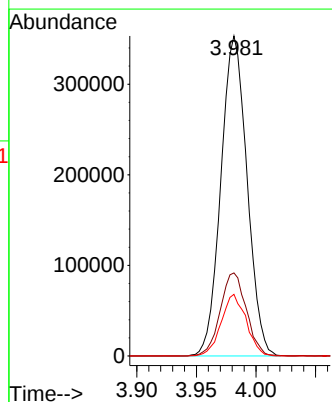
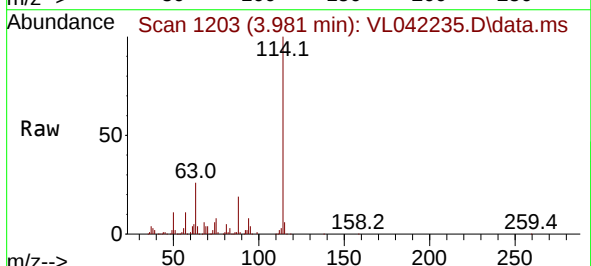
RT: 3.981 min Scan# 1203

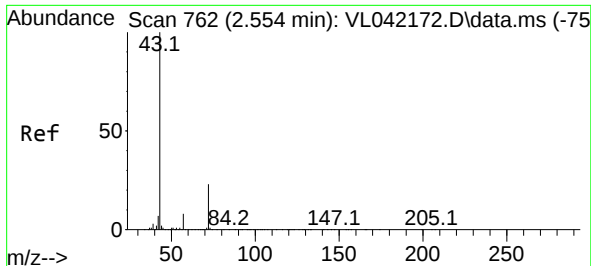
Delta R.T. 0.029 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Tgt Ion:114	Resp: 538469
Ion Ratio	Lower Upper
114	100
63	25.9 20.7 31.1
88	18.4 15.0 22.4





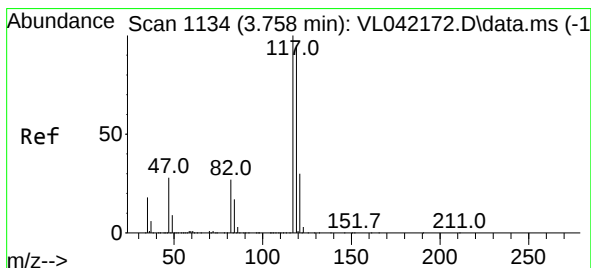
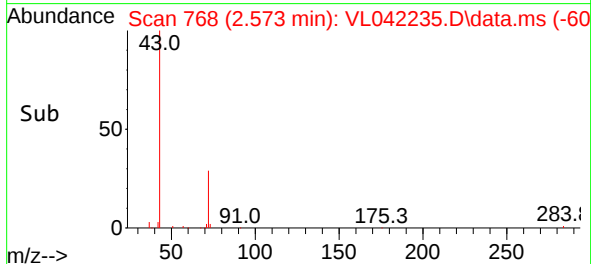
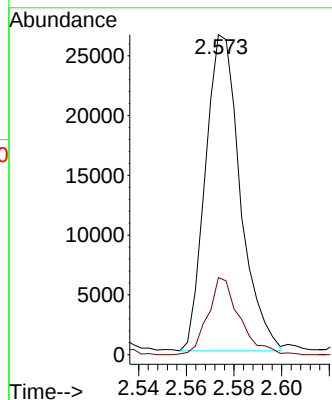
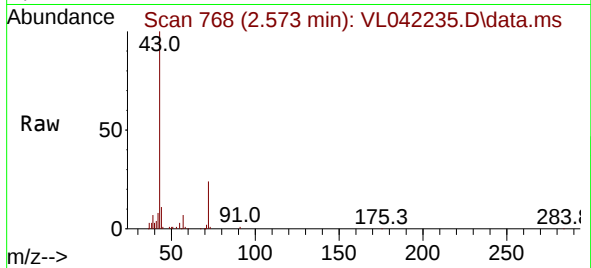
#34
2-Butanone
Concen: 0.690 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.019 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Tgt Ion: 43 Resp: 26940
Ion Ratio Lower Upper
43 100
72 22.0 18.2 27.2

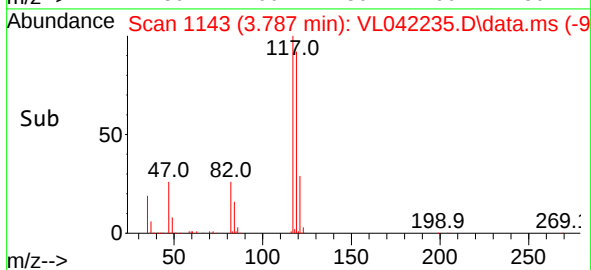
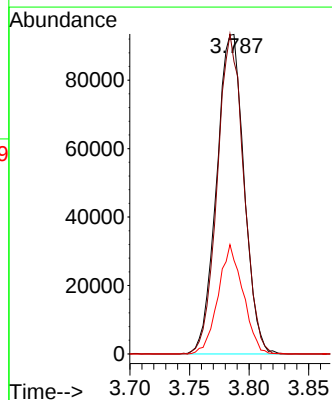
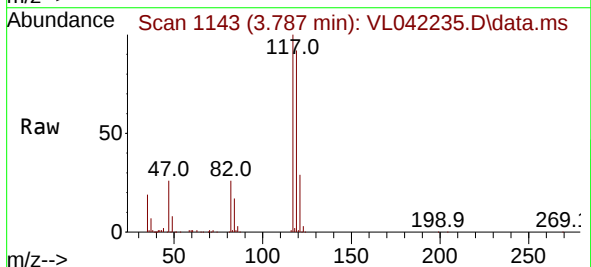
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APPROVED

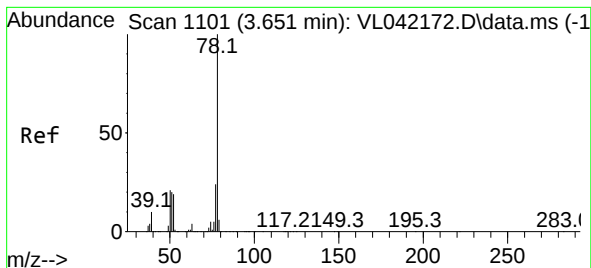
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#35
Carbon Tetrachloride
Concen: 3.555 ppbv
RT: 3.787 min Scan# 1143
Delta R.T. 0.029 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion:117 Resp: 149549
Ion Ratio Lower Upper
117 100
119 91.6 76.2 114.2
121 29.3 24.2 36.4





#36

Benzene

Concen: 0.242 ppbv m

RT: 3.677 min Scan# 1109

Delta R.T. 0.026 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

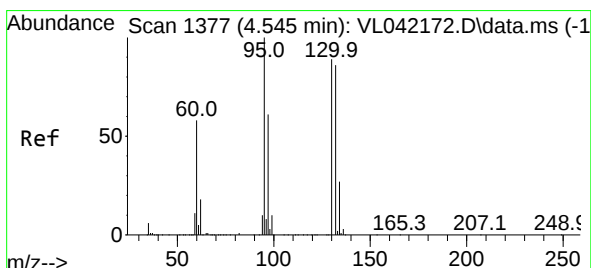
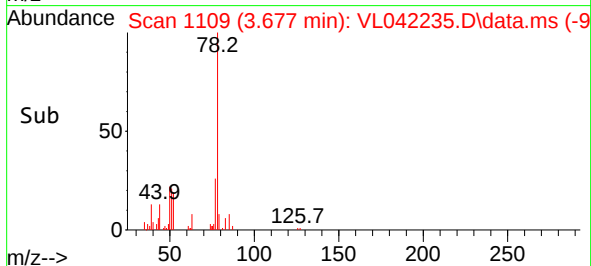
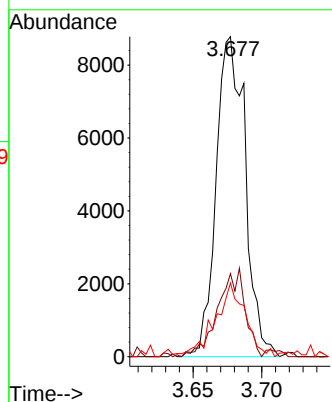
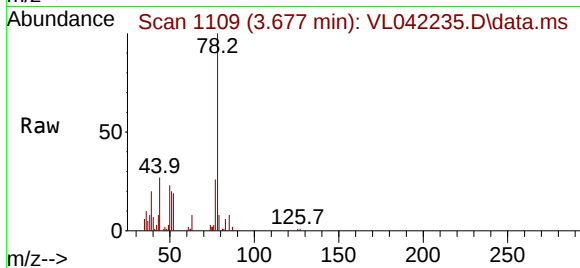
SSSG-B10-4-04012025

Tgt Ion: 78	Resp: 1294
Ion Ratio	Lower Upper
78 100	
77 26.0	19.1 28.7
50 23.0	16.6 24.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#38

Trichloroethene

Concen: 0.916 ppbv

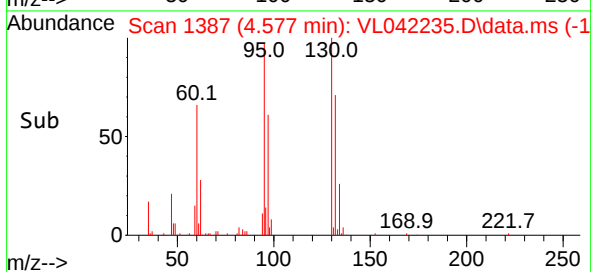
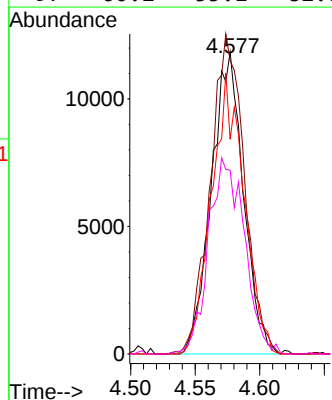
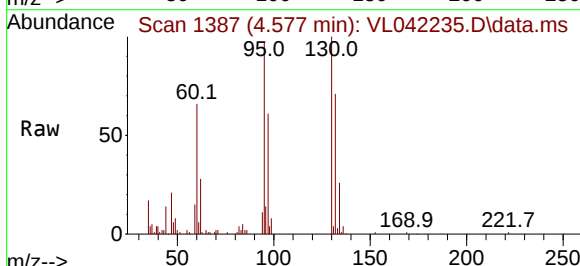
RT: 4.577 min Scan# 1387

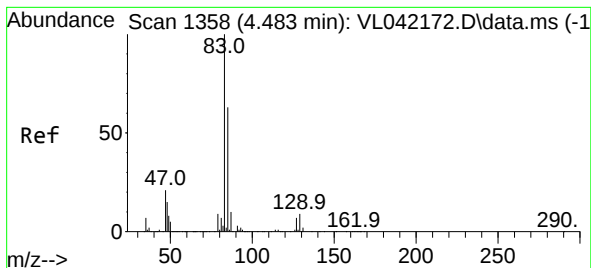
Delta R.T. 0.032 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Tgt Ion:130	Resp: 20401
Ion Ratio	Lower Upper
130 100	
95 97.2	89.8 134.8
132 71.1	77.4 116.2
97 60.2	55.1 82.7





#42

Bromodichloromethane

Concen: 0.416 ppbv m

RT: 4.519 min Scan# 11

Delta R.T. 0.035 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025

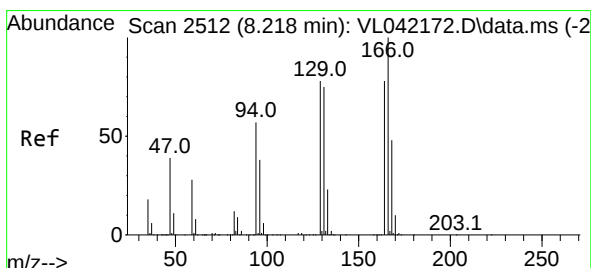
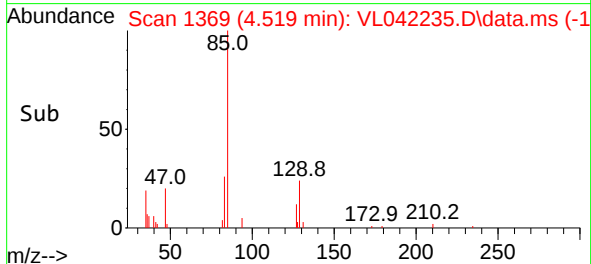
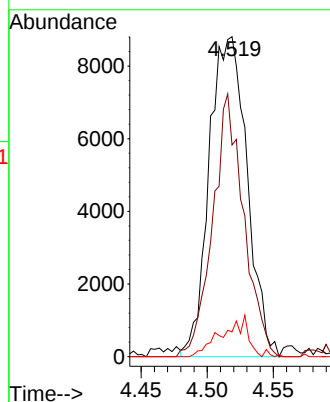
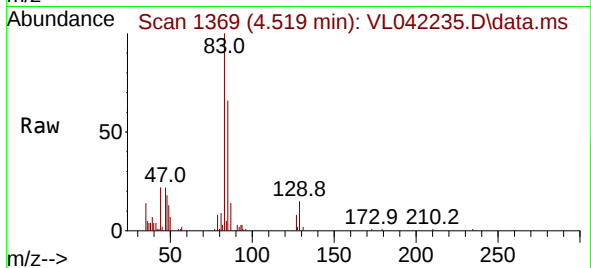
Tgt Ion: 83 Resp: 1752

Ion	Ratio	Lower	Upper
83	100		
85	66.2	50.5	75.7
127	7.8	5.9	8.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#52

Tetrachloroethene

Concen: 3.128 ppbv

RT: 8.247 min Scan# 2521

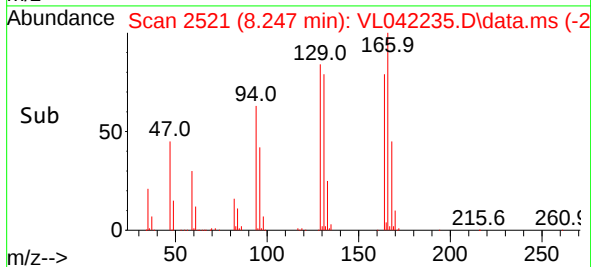
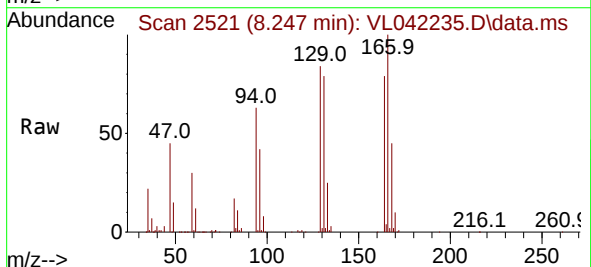
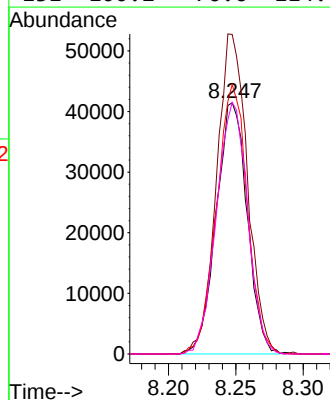
Delta R.T. 0.029 min

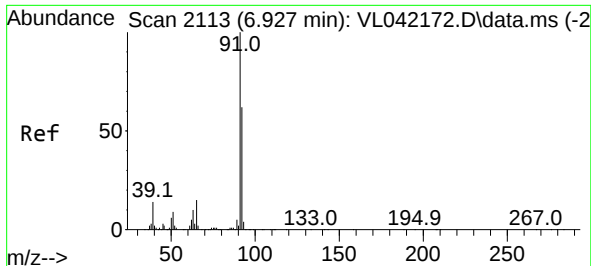
Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Tgt Ion:164 Resp: 66227

Ion	Ratio	Lower	Upper
164	100		
166	127.2	102.5	153.7
129	107.3	79.8	119.8
131	100.2	76.6	114.8





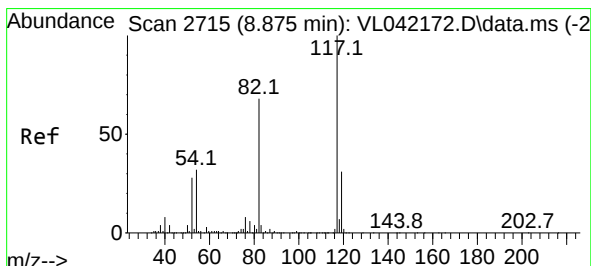
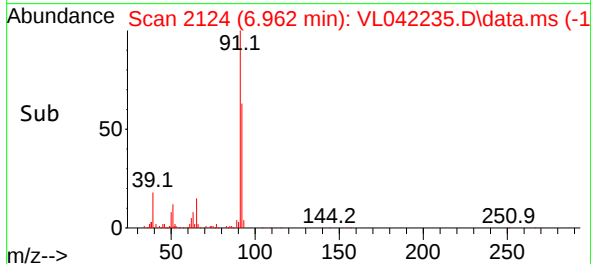
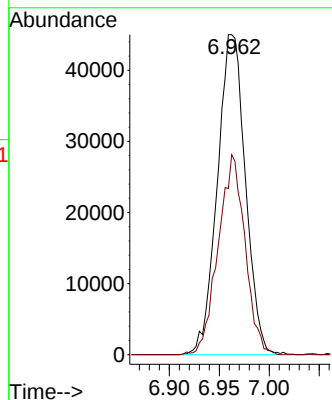
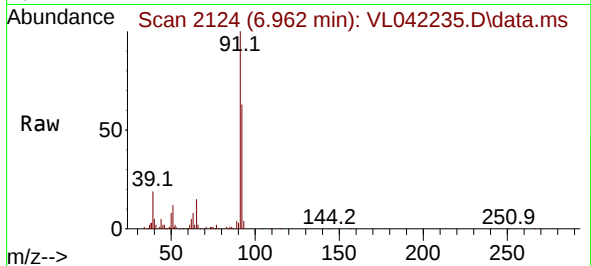
#53
Toluene
Concen: 1.391 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.035 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Tgt Ion: 91 Resp: 8802
Ion Ratio Lower Upper
91 100
92 59.6 48.4 72.6

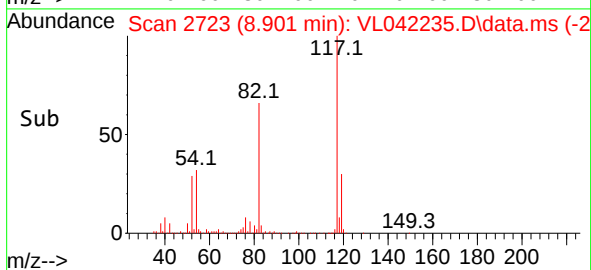
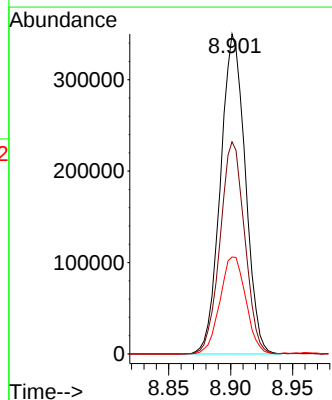
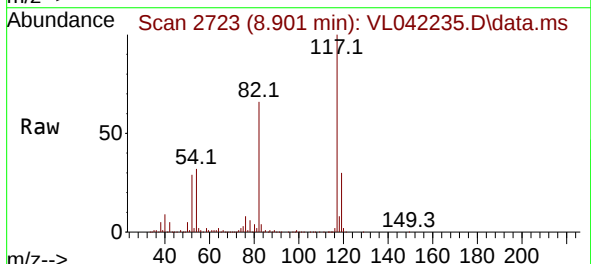
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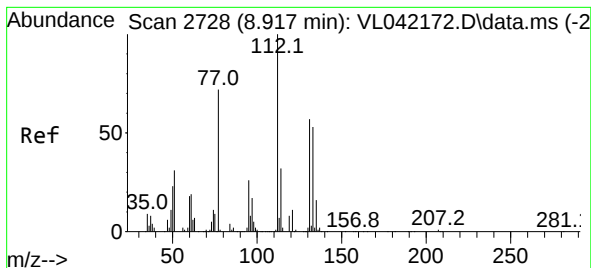
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.026 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion:117 Resp: 487966
Ion Ratio Lower Upper
117 100
82 65.9 55.8 83.6
119 31.7 25.5 38.3





#57

Chlorobenzene

Concen: 0.155 ppbv m

RT: 8.940 min Scan# 21

Delta R.T. 0.023 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

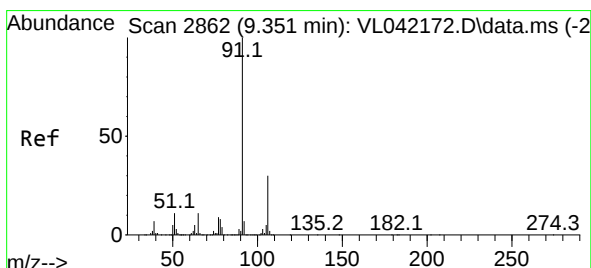
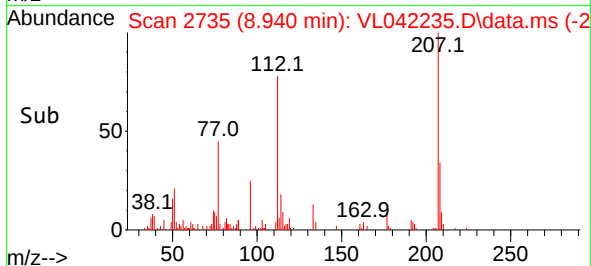
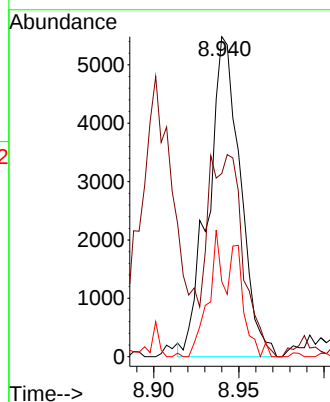
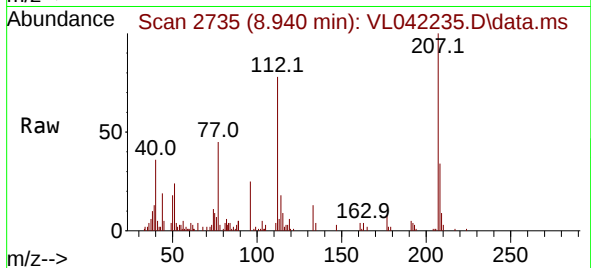
SSSG-B10-4-04012025

Tgt Ion:112	Resp:	716
Ion Ratio	Lower	Upper
112	100	
77	57.3	58.2 87.2
114	23.4	29.1 35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#58

Ethyl Benzene

Concen: 0.265 ppbv

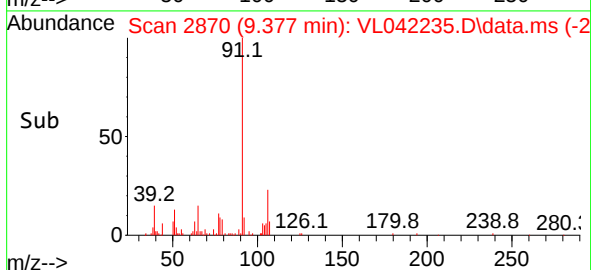
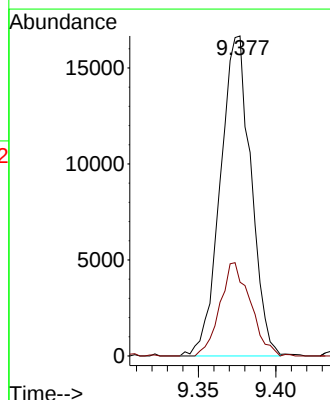
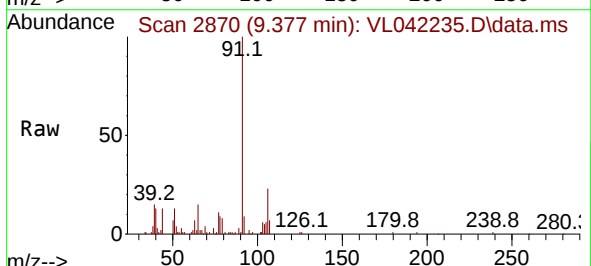
RT: 9.377 min Scan# 2870

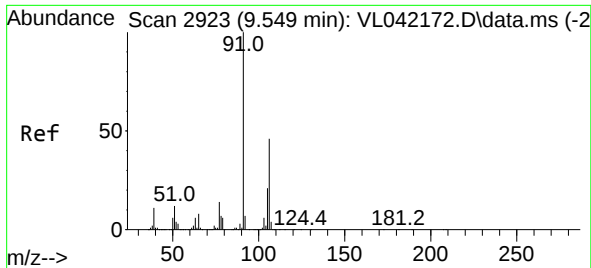
Delta R.T. 0.026 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Tgt Ion: 91	Resp:	22956
Ion Ratio	Lower	Upper
91	100	
106	23.1	24.2 36.2





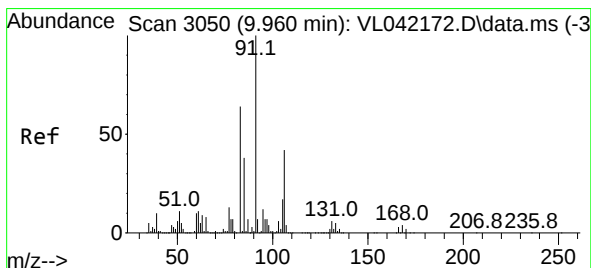
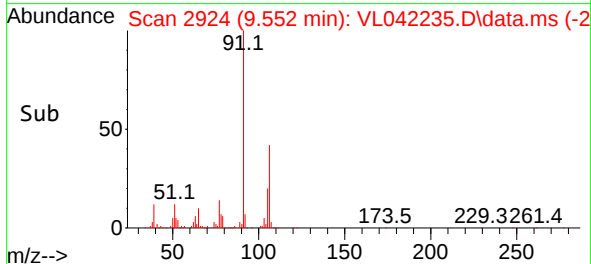
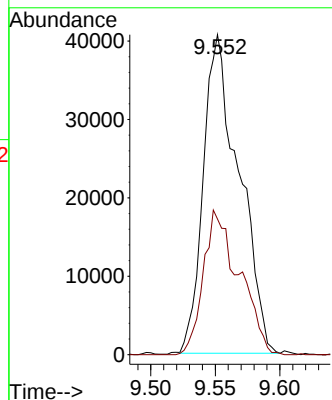
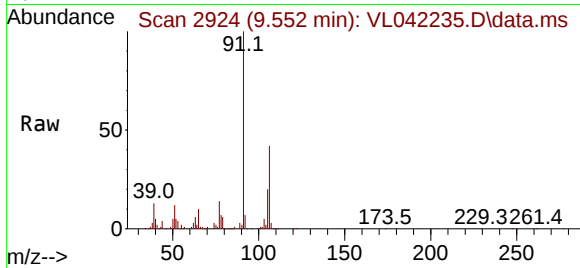
#59
m/p-Xylene
Concen: 1.131 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Tgt Ion: 91 Resp: 7824
Ion Ratio Lower Upper
91 100
106 45.6 36.4 54.6

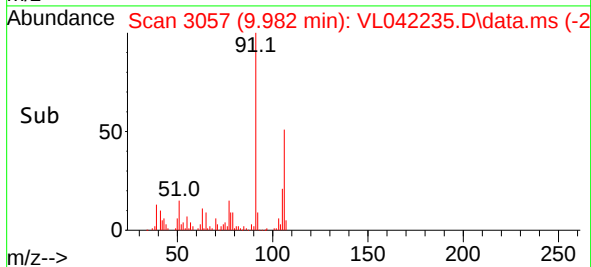
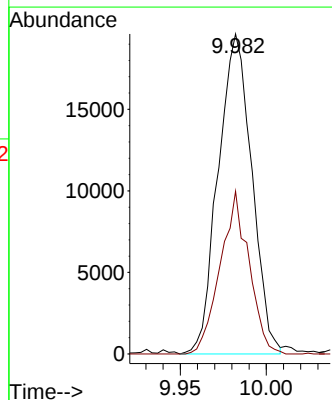
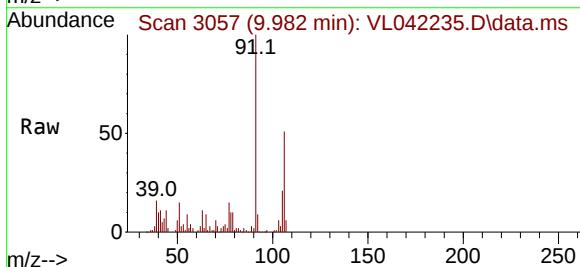
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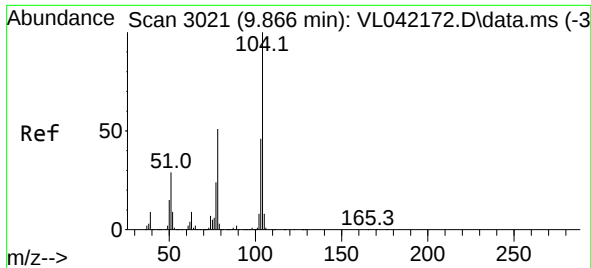
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#60
o-Xylene
Concen: 0.385 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.023 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 91 Resp: 26678
Ion Ratio Lower Upper
91 100
106 43.4 20.8 62.5





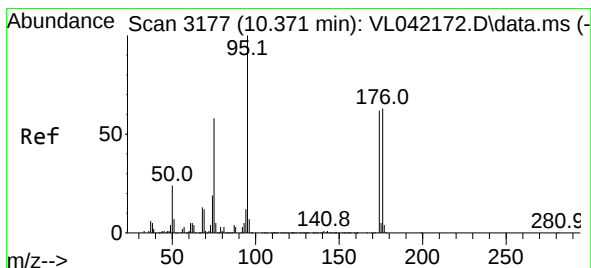
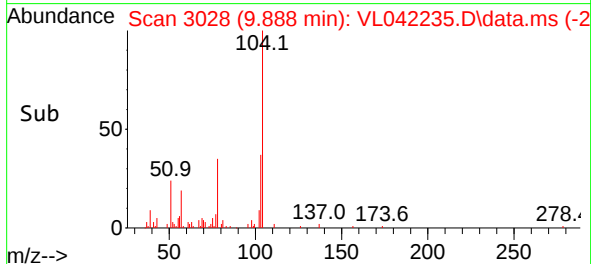
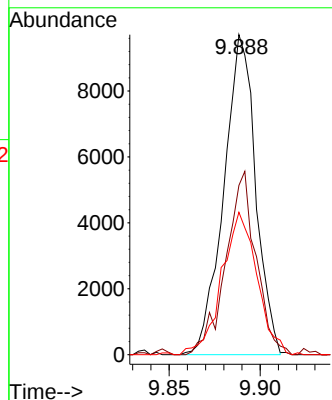
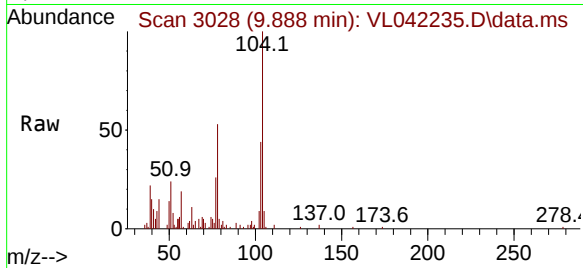
#61
Styrene
Concen: 0.344 ppbv
RT: 9.888 min Scan# 3021
Delta R.T. 0.023 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Tgt Ion:104 Resp: 11790
Ion Ratio Lower Upper
104 100
78 55.6 41.8 62.6
103 49.4 37.0 55.4

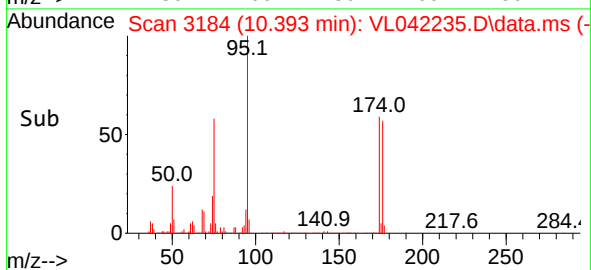
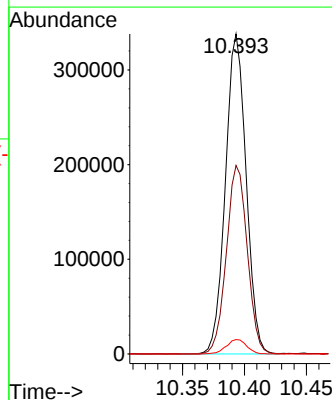
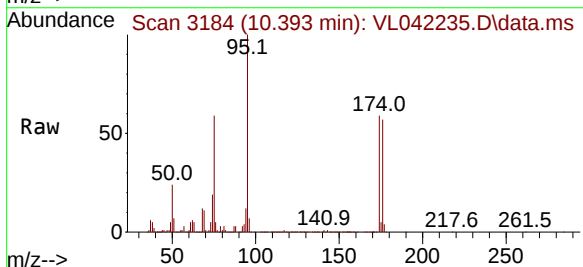
Manual Integrations
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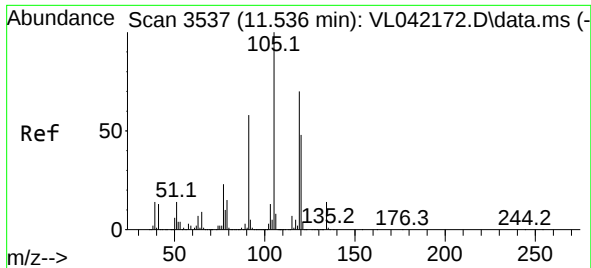
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.805 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.023 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

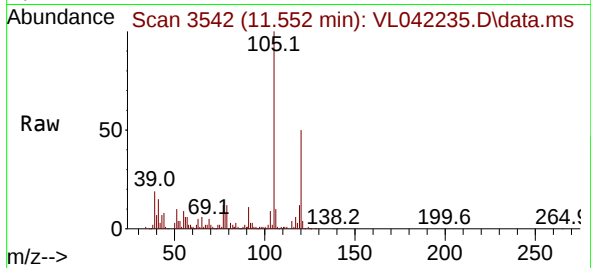
Tgt Ion: 95 Resp: 392922
Ion Ratio Lower Upper
95 100
174 59.8 50.6 76.0
175 4.5 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.381 ppbv
 RT: 11.552 min Scan# 3542
 Delta R.T. 0.016 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51

Instrument : MSVOA_L
 ClientSampleId : SSSG-B10-4-04012025



Tgt Ion:	105	Resp:	33120
Ion Ratio	Lower	Upper	
105	100		
120	50.0	38.6	58.0
91	10.1	46.2	69.2
77	10.8	18.6	27.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

