

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
 Data File : VL042207.D
 Acq On : 31 Mar 2025 13:05
 Operator : SY/MD
 Sample : Q1649-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

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

Quant Time: Apr 01 01:39:01 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	188990	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	532030	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	474470	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	384646	9.872	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	4066	0.146	ppbv	99
3) Chlorodifluoromethane	1.483	51	4794m	0.168	ppbv	
9) Propene	1.489	41	15539	1.189	ppbv	93
10) Heptane	5.004	43	14747m	0.424	ppbv	
13) Ethanol	1.729	45	13674	11.071	ppbv #	27
15) Acetone	1.845	43	66131	2.502	ppbv	92
20) Methylene Chloride	2.075	84	3942	0.400	ppbv #	73
26) Hexane	2.842	57	238592	9.004	ppbv #	29
28) Methyl tert-Butyl Ether	2.457	73	4385m	0.266	ppbv	
34) 2-Butanone	2.577	43	8334	0.216	ppbv	95
36) Benzene	3.677	78	5514	0.105	ppbv #	79
38) Trichloroethene	4.577	130	1630m	0.074	ppbv	
52) Tetrachloroethene	8.250	164	7895	0.377	ppbv #	71
53) Toluene	6.966	91	33676	0.539	ppbv	96
59) m/p-Xylene	9.555	91	30419m	0.452	ppbv	
60) o-Xylene	9.985	91	12139	0.180	ppbv	95
74) 1,2,4-Trimethylbenzene	11.552	105	32137	0.380	ppbv #	66

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

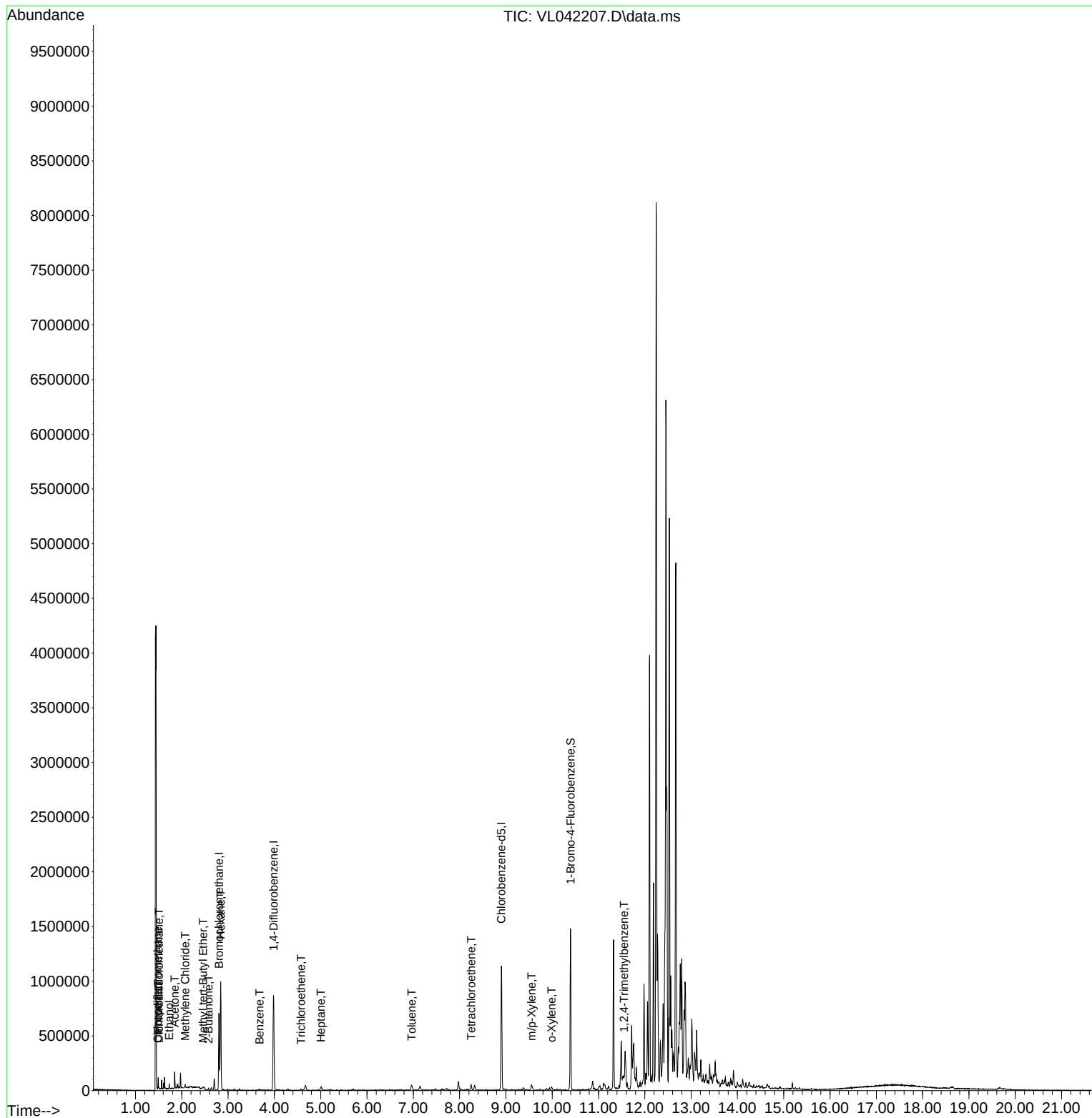
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042207.D
Acq On : 31 Mar 2025 13:05
Operator : SY/MD
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

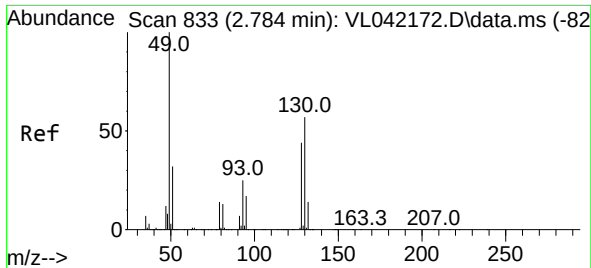
Instrument :
MSVOA_L
ClientSampleId :
SV1

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Supervised By :Mahesh Dadoda 04/01/2025

Quant Time: Apr 01 01:39:01 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





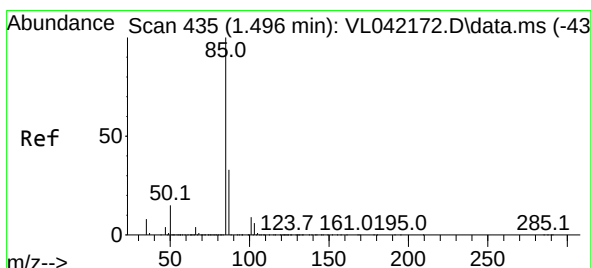
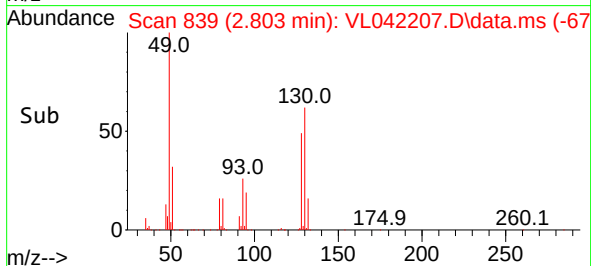
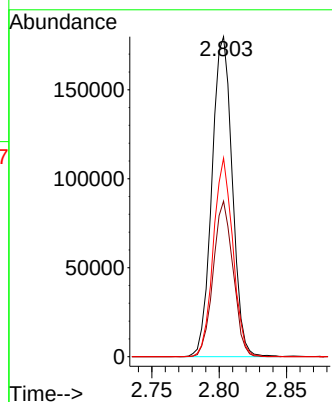
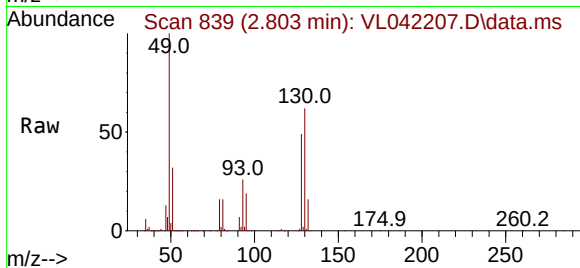
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 188990
Ion Ratio Lower Upper
49 100
128 47.3 22.9 68.5
130 59.4 28.8 86.4

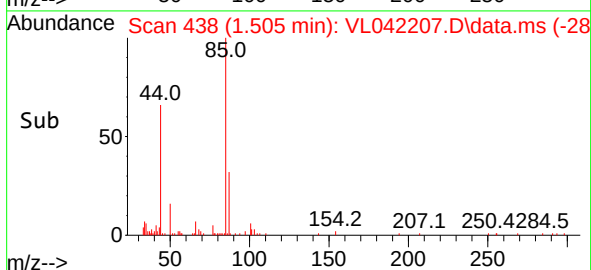
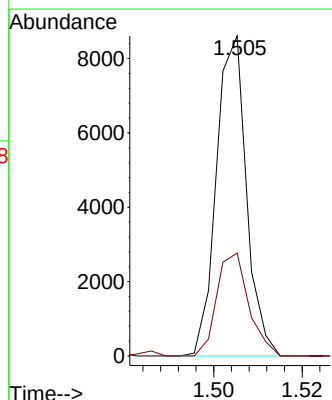
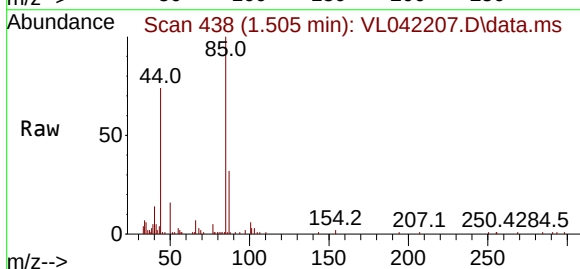
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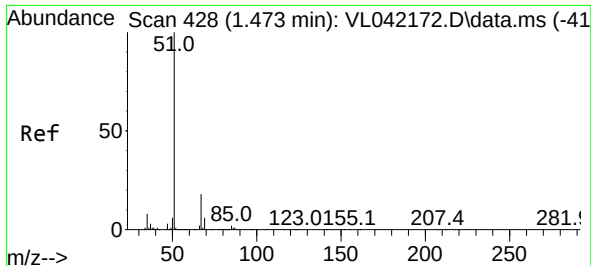
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#2
Dichlorodifluoromethane
Concen: 0.146 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 85 Resp: 4066
Ion Ratio Lower Upper
85 100
87 32.2 26.1 39.1





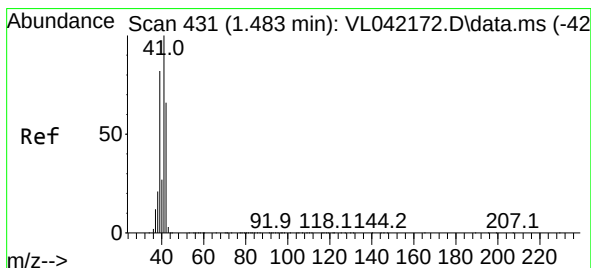
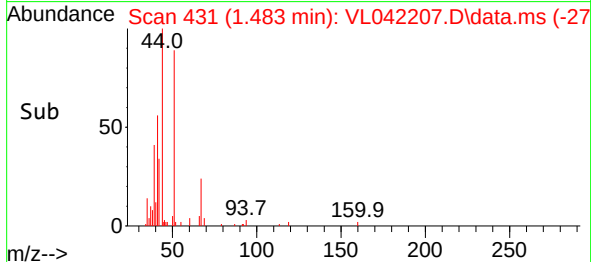
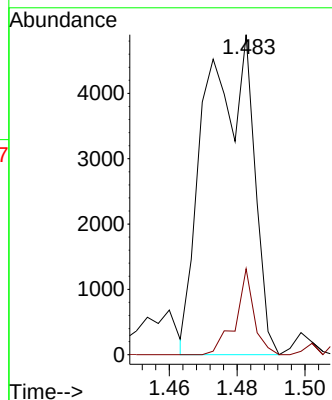
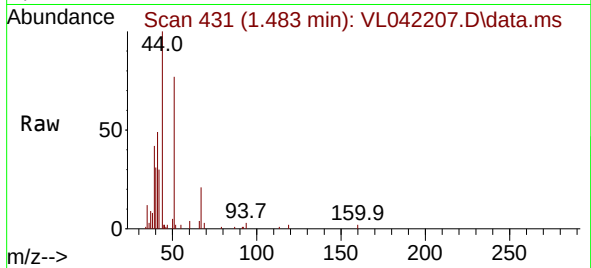
#3
Chlorodifluoromethane
Concen: 0.168 ppbv m
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 51 Resp: 4794
Ion Ratio Lower Upper
51 100
67 11.2 15.0 22.6

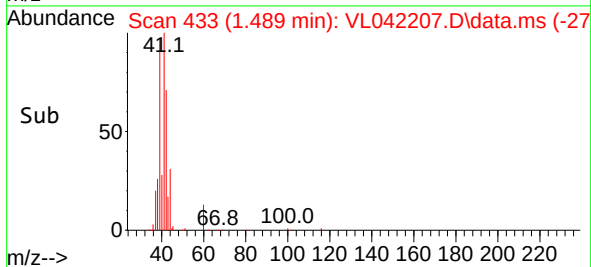
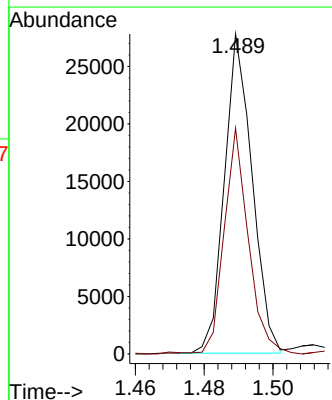
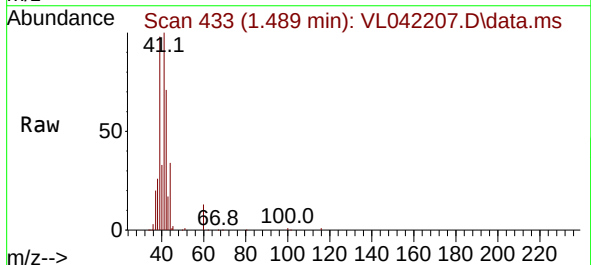
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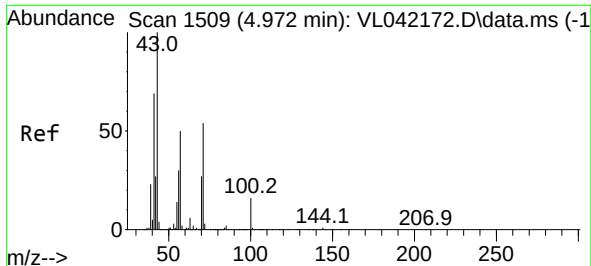
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#9
Propene
Concen: 1.189 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 41 Resp: 15539
Ion Ratio Lower Upper
41 100
42 63.3 55.4 83.2





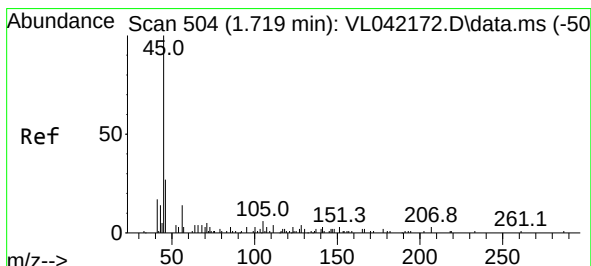
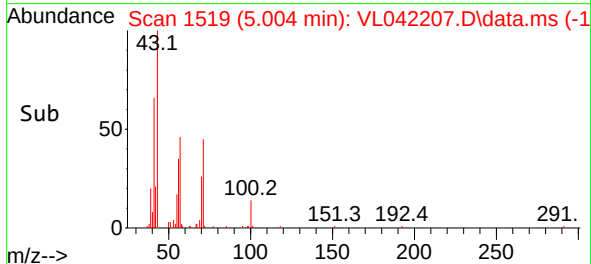
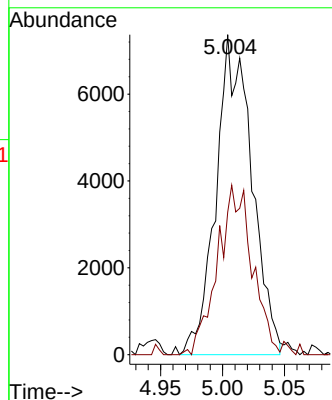
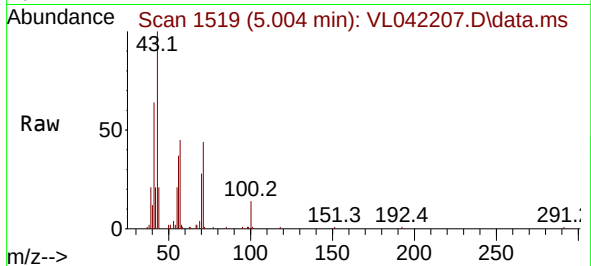
#10
Heptane
Concen: 0.424 ppbv m
RT: 5.004 min Scan# 11
Delta R.T. 0.032 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 1474
Ion Ratio Lower Upper
43 100
57 53.0 39.4 59.2

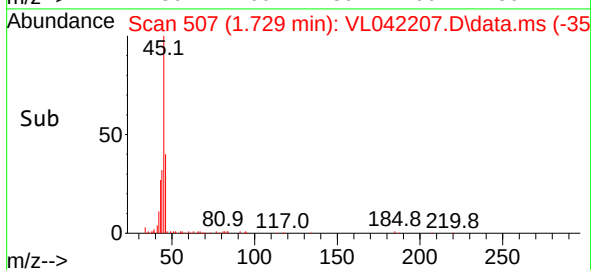
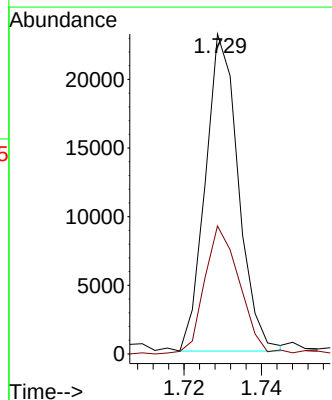
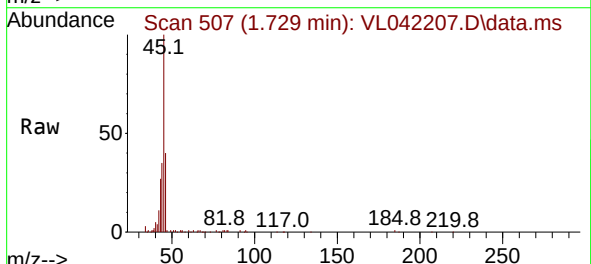
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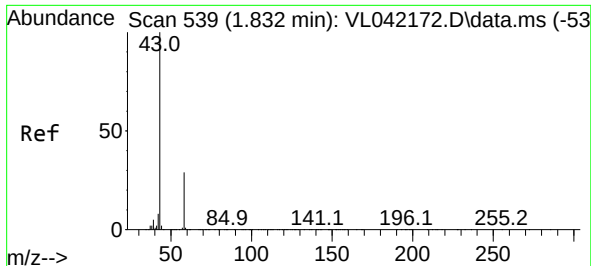
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#13
Ethanol
Concen: 11.071 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 45 Resp: 13674
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#





#15

Acetone

Concen: 2.502 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042207.D

Acq: 31 Mar 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 43 Resp: 6613

Ion Ratio Lower Upper

43 100

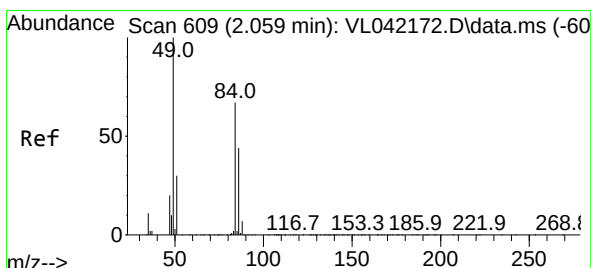
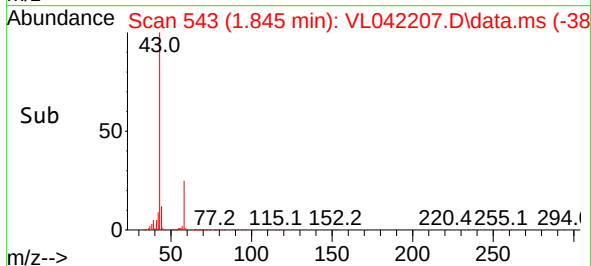
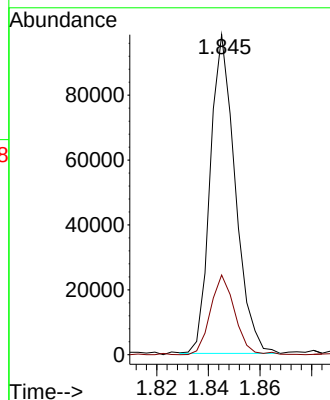
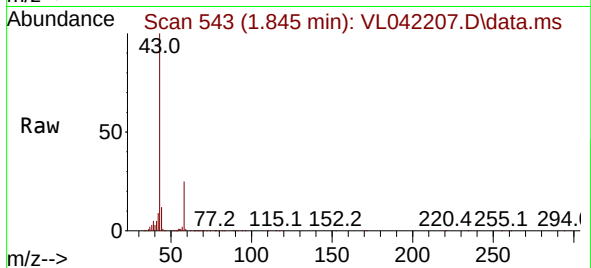
58 24.5 23.2 34.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/01/2025

Supervised By :Mahesh Dadoda 04/01/2025



#20

Methylene Chloride

Concen: 0.400 ppbv

RT: 2.075 min Scan# 614

Delta R.T. 0.016 min

Lab File: VL042207.D

Acq: 31 Mar 2025 13:05

Tgt Ion: 84 Resp: 3942

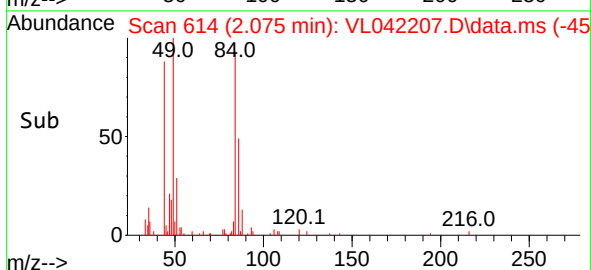
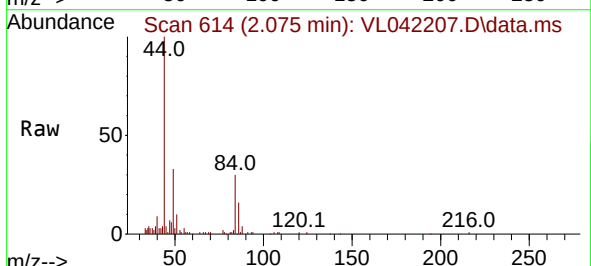
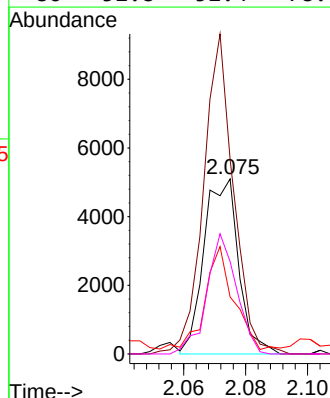
Ion Ratio Lower Upper

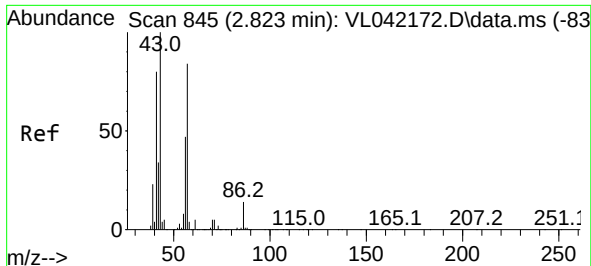
84 100

49 108.8 120.2 180.4#

51 29.1 37.4 56.0#

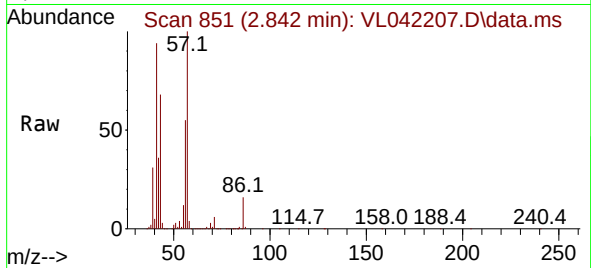
86 52.8 52.4 78.6





#26
Hexane
Concen: 9.004 ppbv
RT: 2.842 min Scan# 845
Delta R.T. 0.019 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

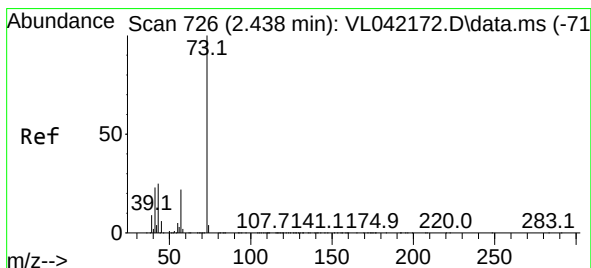
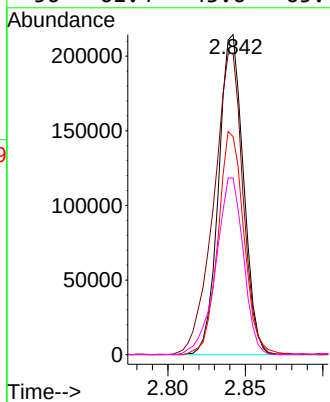
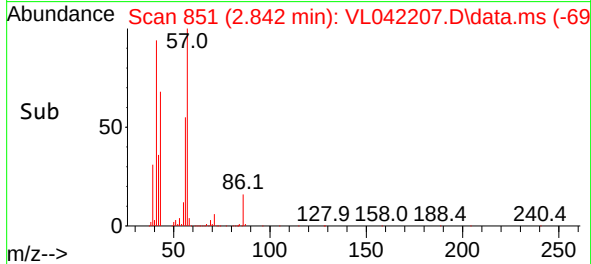
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 238592
Ion Ratio Lower Upper
57 100
41 111.2 76.6 114.8
43 73.3 207.8 311.8
56 61.4 43.6 65.4

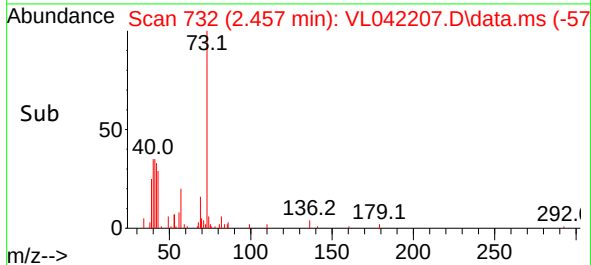
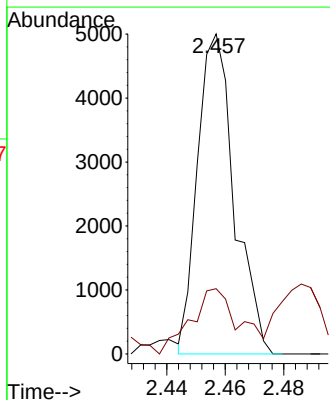
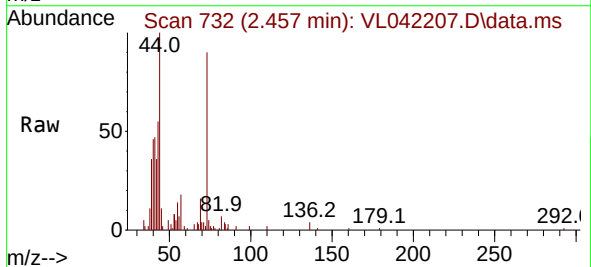
Manual Integrations
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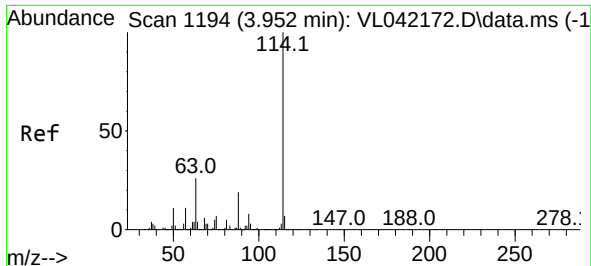
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#28
Methyl tert-Butyl Ether
Concen: 0.266 ppbv m
RT: 2.457 min Scan# 732
Delta R.T. 0.019 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 73 Resp: 4385
Ion Ratio Lower Upper
73 100
57 0.0 20.5 30.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1194

Delta R.T. 0.029 min

Lab File: VL042207.D

Acq: 31 Mar 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

SV1

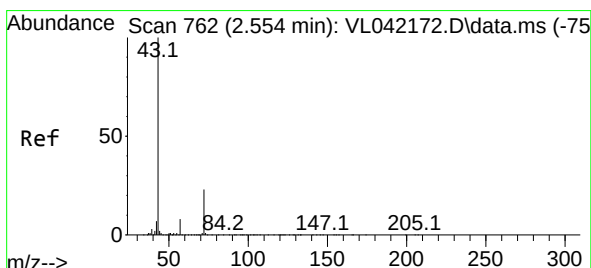
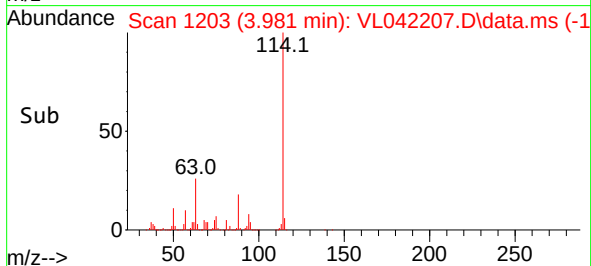
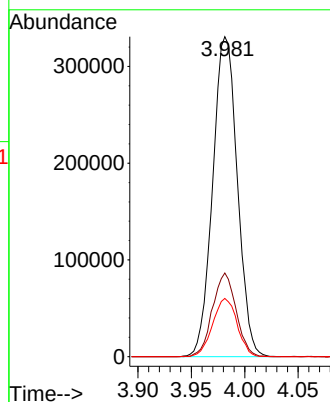
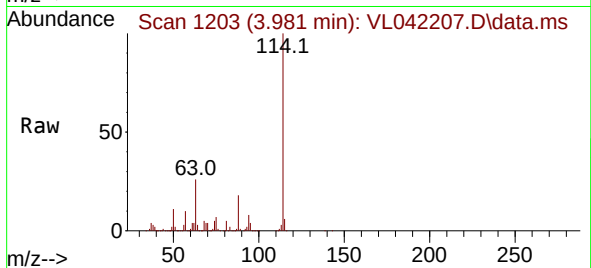
Tgt Ion:114 Resp: 532030

Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.7	31.1
88	18.1	15.0	22.4

Manual Integrations

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Supervised By :Mahesh Dadoda 04/01/2025



#34

2-Butanone

Concen: 0.216 ppbv

RT: 2.577 min Scan# 769

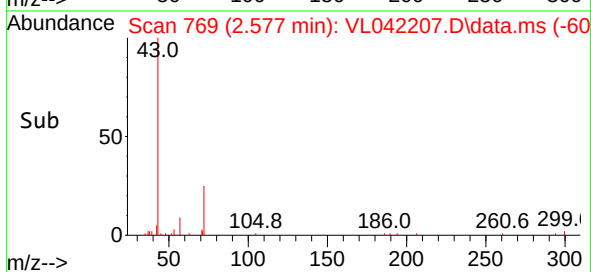
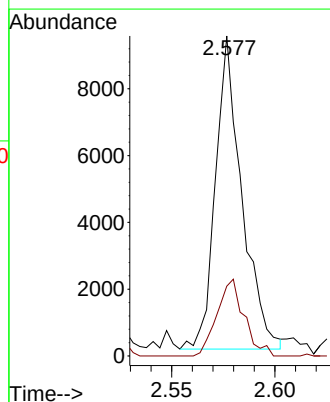
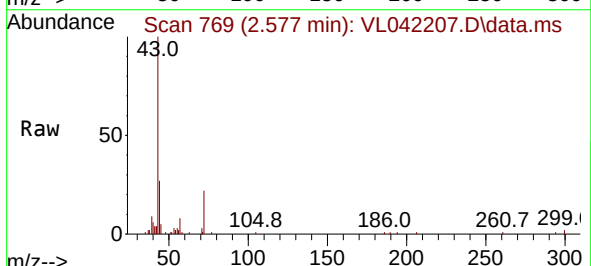
Delta R.T. 0.022 min

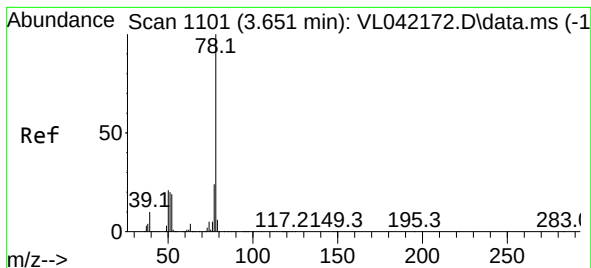
Lab File: VL042207.D

Acq: 31 Mar 2025 13:05

Tgt Ion: 43 Resp: 8334

Ion	Ratio	Lower	Upper
43	100		
72	25.1	18.2	27.2





#36

Benzene

Concen: 0.105 ppbv

RT: 3.677 min Scan# 1109

Delta R.T. 0.026 min

Lab File: VL042207.D

Acq: 31 Mar 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

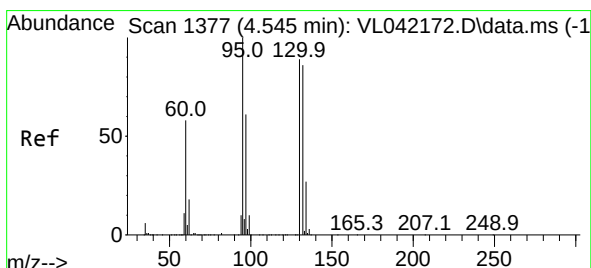
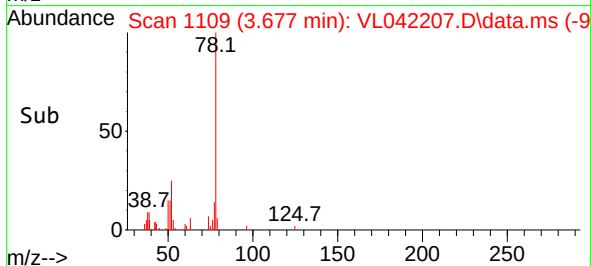
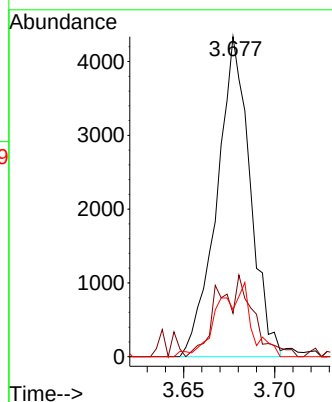
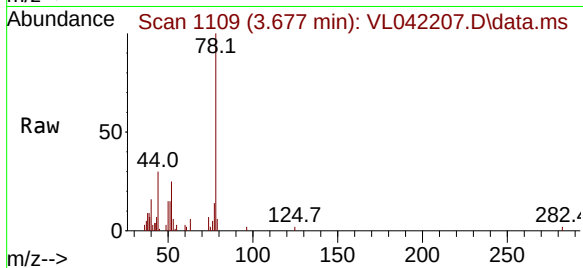
SV1

Tgt Ion: 78	Resp: 5514
Ion Ratio	Lower Upper
78 100	
77 11.1	19.1 28.7
50 13.2	16.6 24.8

Manual Integrations

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



#38

Trichloroethene

Concen: 0.074 ppbv m

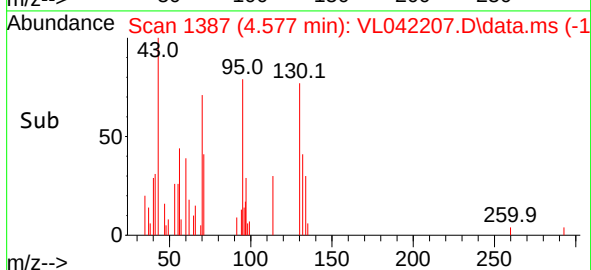
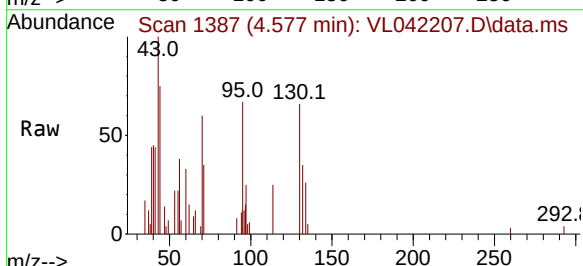
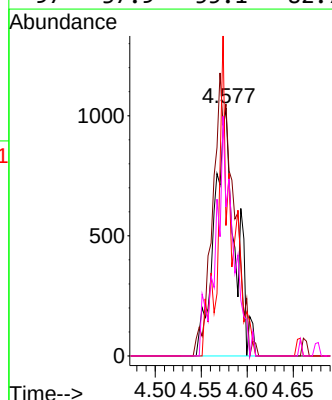
RT: 4.577 min Scan# 1387

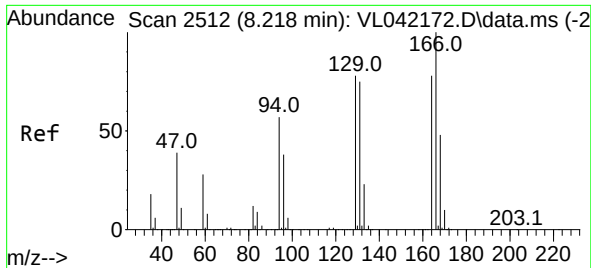
Delta R.T. 0.032 min

Lab File: VL042207.D

Acq: 31 Mar 2025 13:05

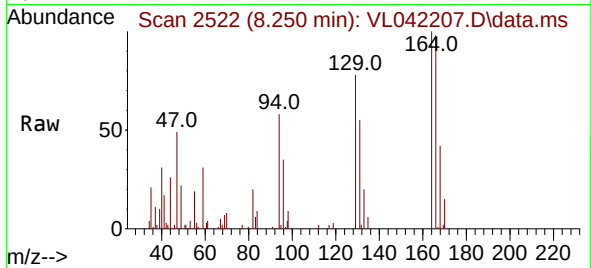
Tgt	Ion:130	Resp:	1630
Ion	Ratio	Lower	Upper
130	100		
95	101.6	89.8	134.8
132	52.6	77.4	116.2#
97	37.9	55.1	82.7#





#52
Tetrachloroethene
Concen: 0.377 ppbv
RT: 8.250 min Scan# 2125
Delta R.T. 0.032 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

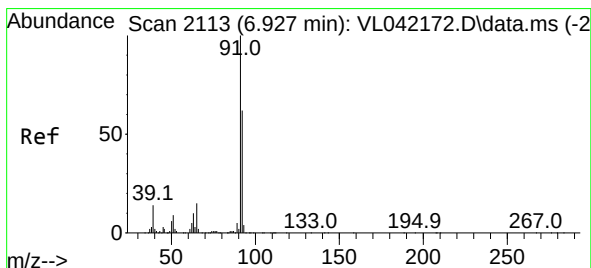
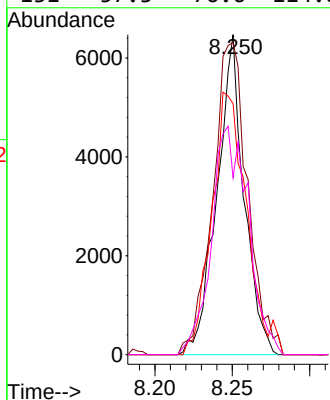
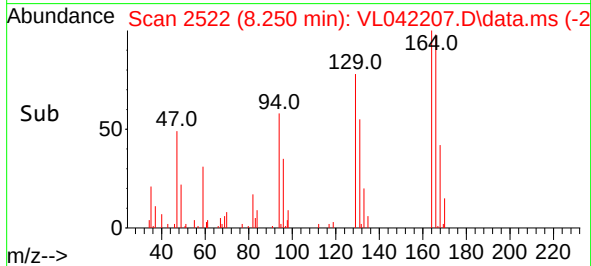
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 7895
Ion Ratio Lower Upper
164 100
166 97.6 102.5 153.7
129 78.5 79.8 119.8
131 57.3 76.6 114.8

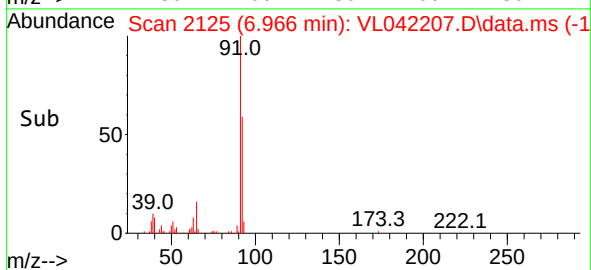
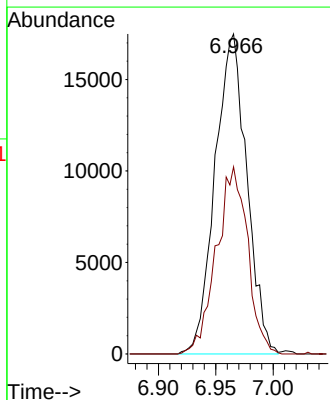
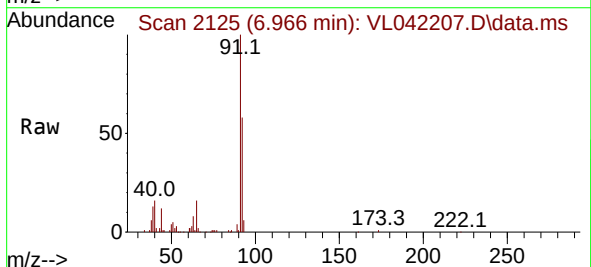
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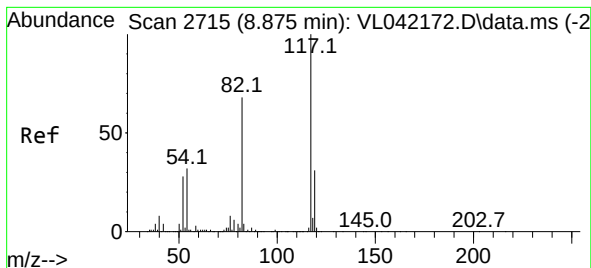
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#53
Toluene
Concen: 0.539 ppbv
RT: 6.966 min Scan# 2125
Delta R.T. 0.039 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 91 Resp: 33676
Ion Ratio Lower Upper
91 100
92 57.3 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.901 min Scan# 21

Delta R.T. 0.026 min

Lab File: VL042207.D

Acq: 31 Mar 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

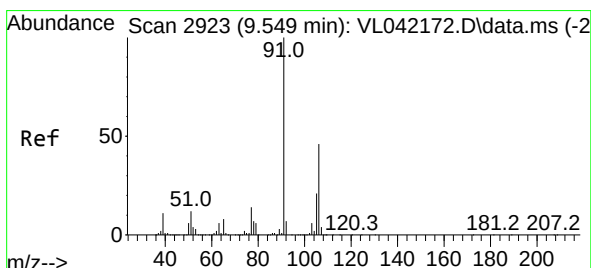
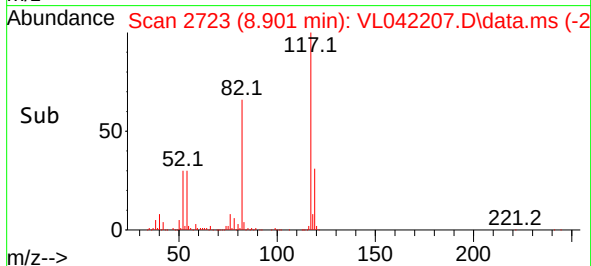
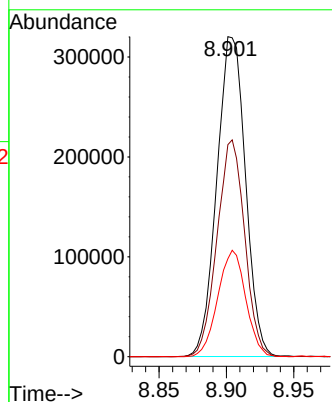
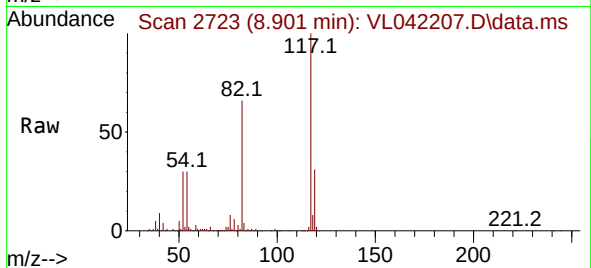
SV1

Tgt Ion:	117	Resp:	474470
Ion	Ratio	Lower	Upper
117	100		
82	65.3	55.8	83.6
119	32.5	25.5	38.3

Manual Integrations

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



#59

m/p-Xylene

Concen: 0.452 ppbv m

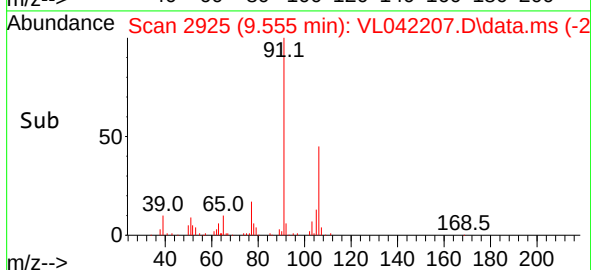
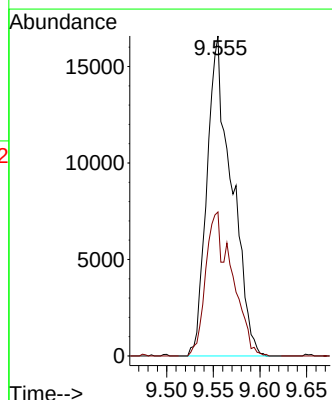
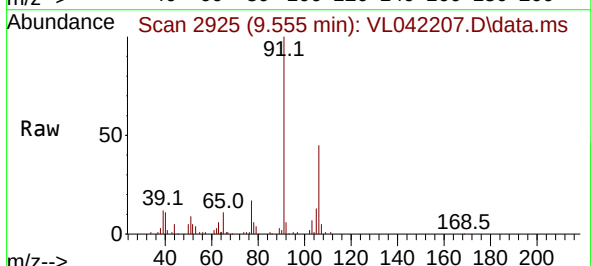
RT: 9.555 min Scan# 2925

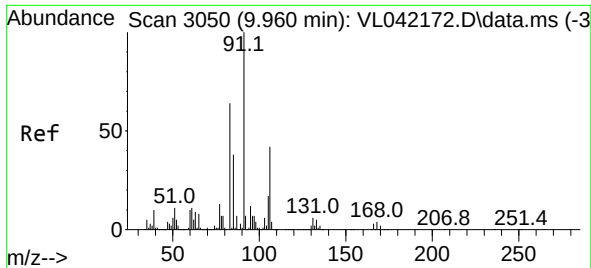
Delta R.T. 0.006 min

Lab File: VL042207.D

Acq: 31 Mar 2025 13:05

Tgt Ion:	91	Resp:	30419
Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.4	54.6#





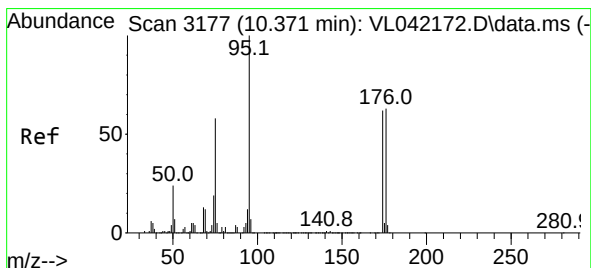
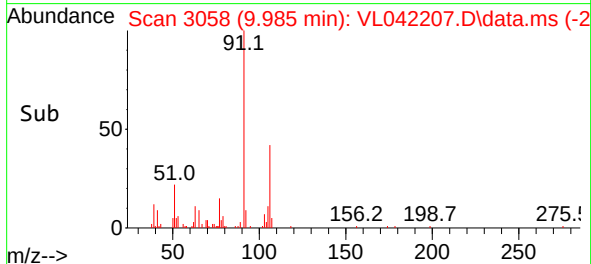
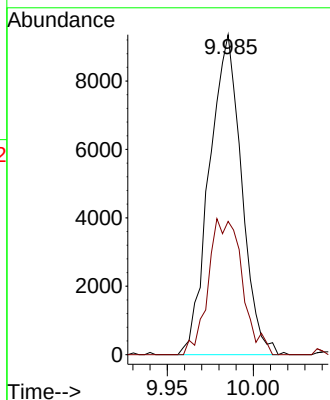
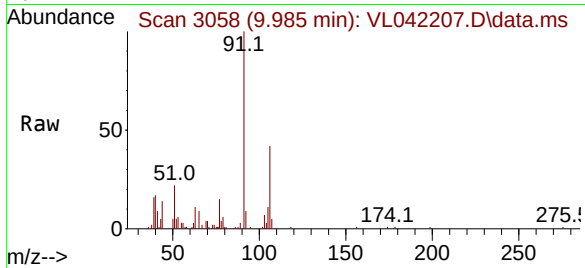
#60
o-Xylene
Concen: 0.180 ppbv
RT: 9.985 min Scan# 3058
Delta R.T. 0.026 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 12139
Ion Ratio Lower Upper
91 100
106 44.8 20.8 62.5

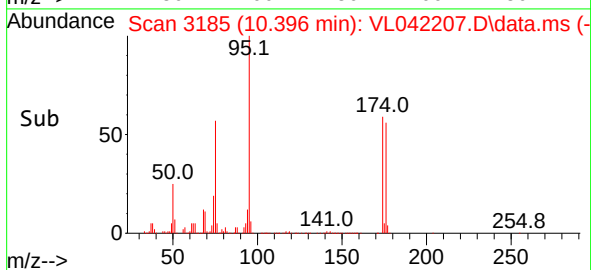
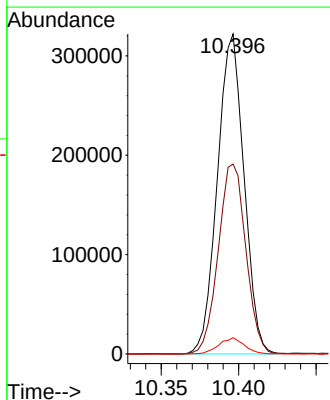
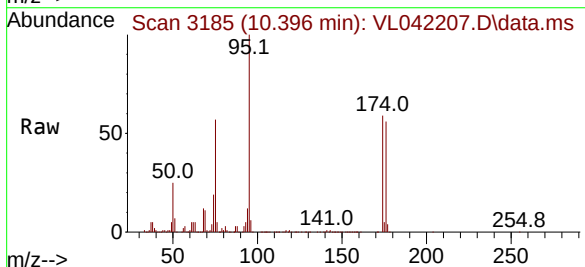
Manual Integrations
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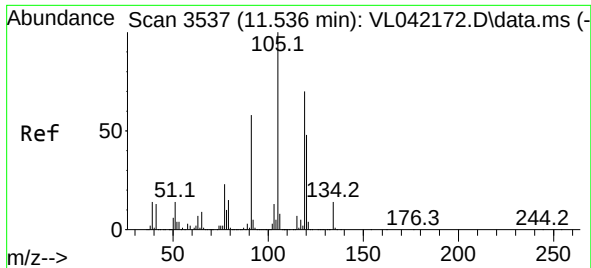
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.872 ppbv
RT: 10.396 min Scan# 3185
Delta R.T. 0.026 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

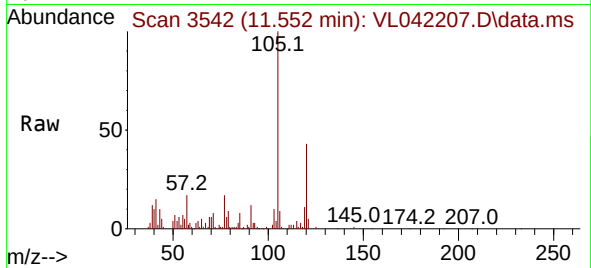
Tgt Ion: 95 Resp: 384646
Ion Ratio Lower Upper
95 100
174 61.7 50.6 76.0
175 4.9 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.380 ppbv
 RT: 11.552 min Scan# 3542
 Delta R.T. 0.016 min
 Lab File: VL042207.D
 Acq: 31 Mar 2025 13:05

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:	105	Resp:	3213
Ion Ratio	Lower	Upper	
105	100		
120	42.9	38.6	58.0
91	11.7	46.2	69.2
77	14.9	18.6	27.8

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

