

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042405.D
 Acq On : 21 Apr 2025 15:18
 Operator : SY/MD
 Sample : Q1843-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 06:46:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	126464	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	348043	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	298931	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	259568	10.567	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9994	0.447	ppbv	96
3) Chlorodifluoromethane	1.476	51	4704m	0.221	ppbv	
4) Chloromethane	1.531	50	4567	0.516	ppbv #	86
9) Propene	1.489	41	137485m	14.189	ppbv	
10) Heptane	4.985	43	9835m	0.361	ppbv	
11) Trichlorofluoromethane	1.877	101	4590m	0.216	ppbv	
13) Ethanol	1.722	45	63374	41.149	ppbv	76
15) Acetone	1.835	43	987031	47.677	ppbv	99
19) Isopropyl Alcohol	1.887	45	159355	13.856	ppbv #	1
20) Methylene Chloride	2.059	84	7400	0.913	ppbv	85
26) Hexane	2.826	57	477107	23.097	ppbv #	32
30) Cyclohexane	3.858	84	2287m	0.137	ppbv	
34) 2-Butanone	2.564	43	7185	0.261	ppbv	100
35) Carbon Tetrachloride	3.764	117	2278m	0.072	ppbv	
36) Benzene	3.658	78	6904	0.184	ppbv #	93
44) 2,2,4-Trimethylpentane	4.642	57	14523	0.224	ppbv #	81
52) Tetrachloroethene	8.215	164	1012m	0.070	ppbv	
53) Toluene	6.933	91	21738	0.483	ppbv	99
59) m/p-Xylene	9.532	91	18242	0.382	ppbv	99
60) o-Xylene	9.963	91	5744m	0.120	ppbv	

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

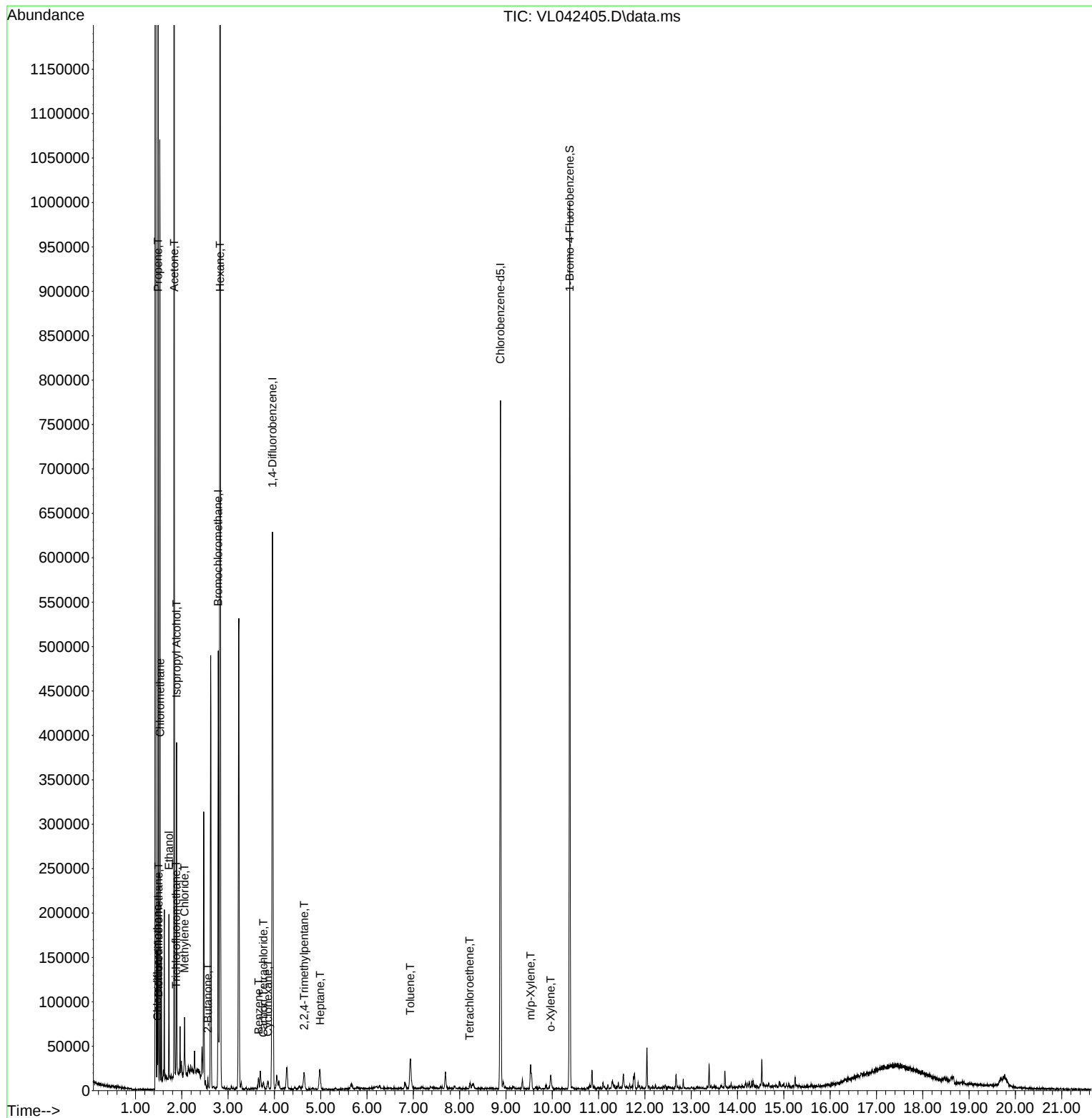
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
Data File : VL042405.D
Acq On : 21 Apr 2025 15:18
Operator : SY/MD
Sample : Q1843-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

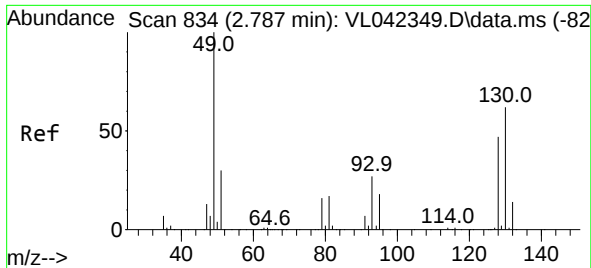
Instrument :
MSVOA_L
ClientSampleId :
IA1

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Quant Time: Apr 22 06:46:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





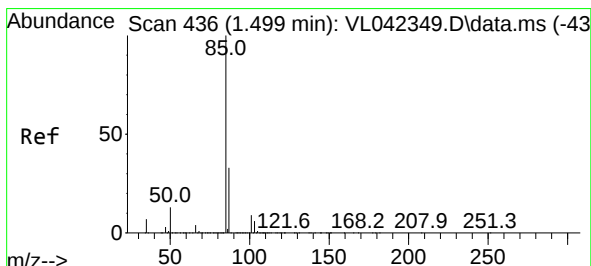
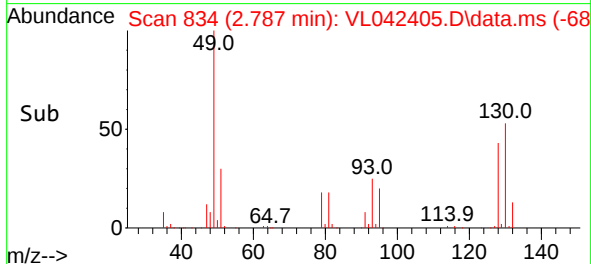
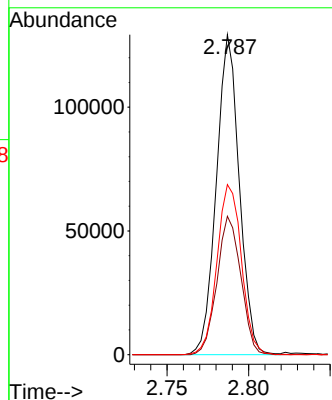
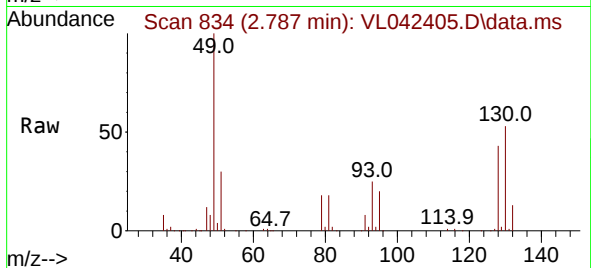
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. -0.000 min
 Lab File: VL042405.D
 Acq: 21 Apr 2025 15:18

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion: 49 Resp: 126464
 Ion Ratio Lower Upper
 49 100
 128 44.9 22.8 68.4
 130 56.6 29.3 88.0

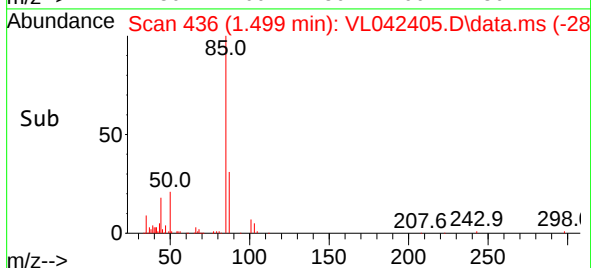
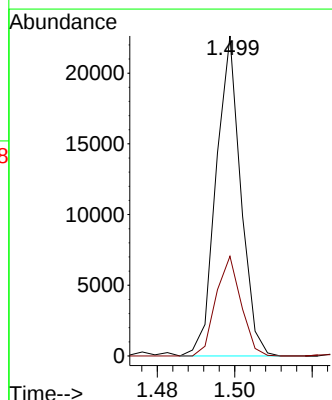
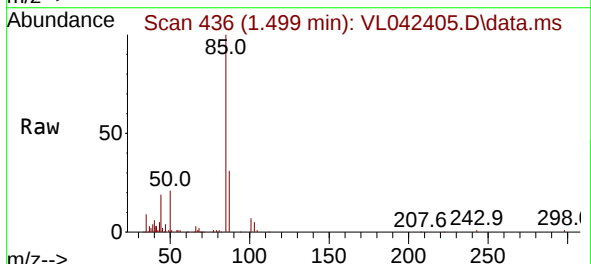
Manual Integrations
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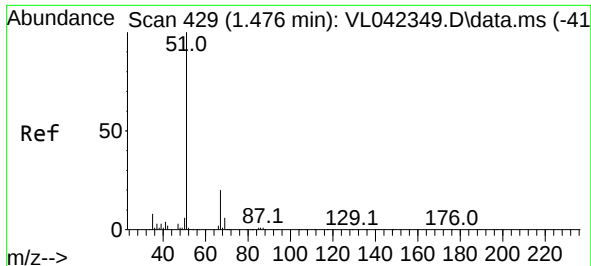
Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025



#2
 Dichlorodifluoromethane
 Concen: 0.447 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042405.D
 Acq: 21 Apr 2025 15:18

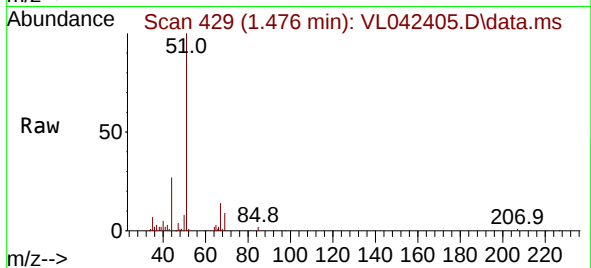
Tgt Ion: 85 Resp: 9994
 Ion Ratio Lower Upper
 85 100
 87 31.1 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.221 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18

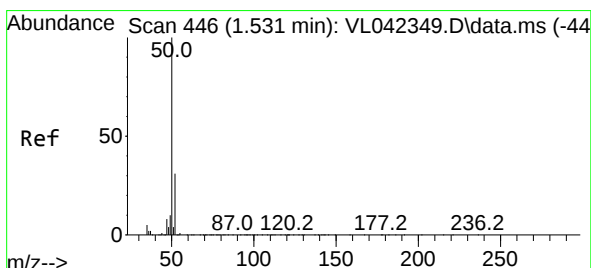
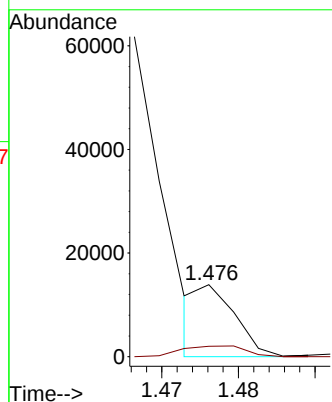
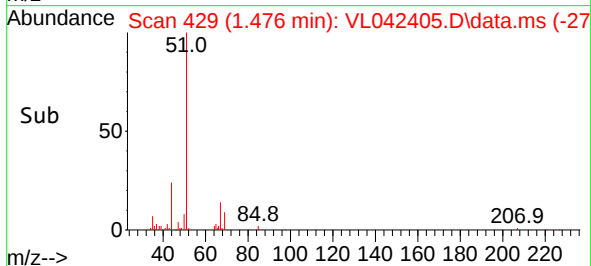
Instrument :
MSVOA_L
ClientSampleId :
IA1



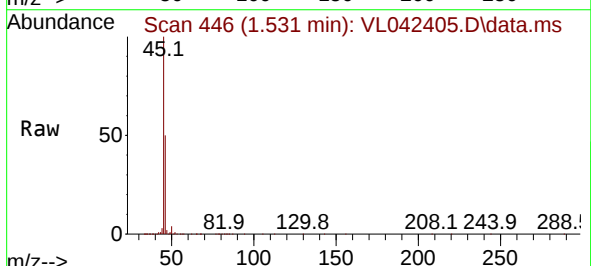
Tgt Ion: 51 Resp: 4704
Ion Ratio Lower Upper
51 100
67 27.3 16.2 24.4

Manual Integrations
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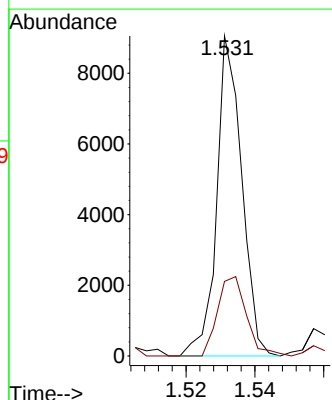
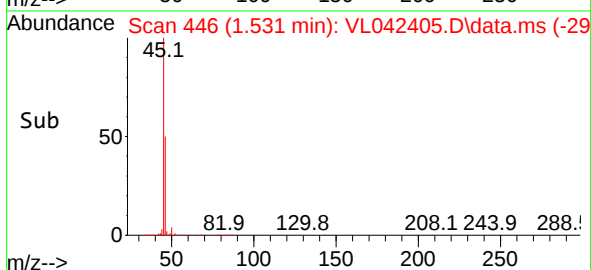
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

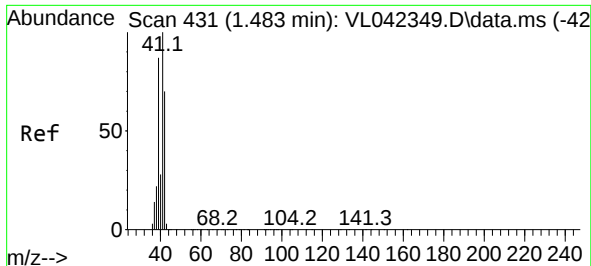


#4
Chloromethane
Concen: 0.516 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18



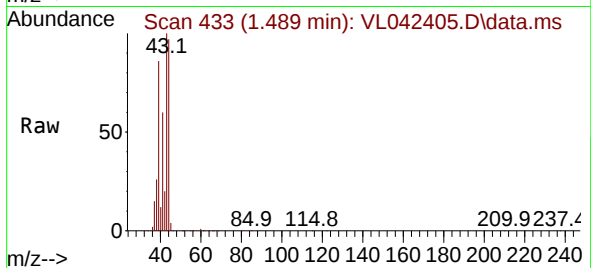
Tgt Ion: 50 Resp: 4567
Ion Ratio Lower Upper
50 100
52 23.3 24.7 37.1





#9
Propene
Concen: 14.189 ppbv m
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18

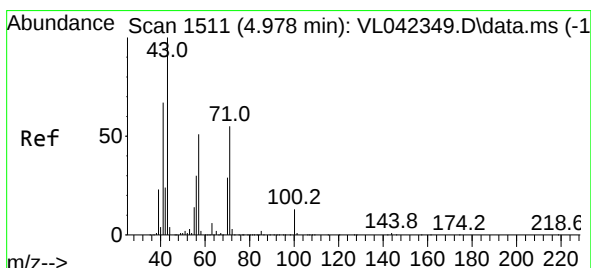
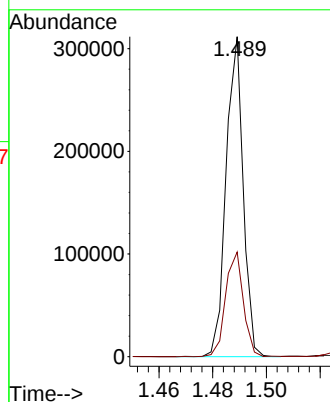
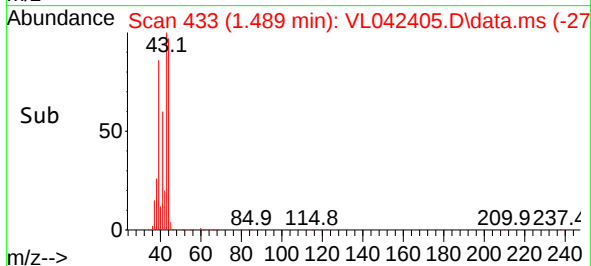
Instrument :
MSVOA_L
ClientSampleId :
IA1



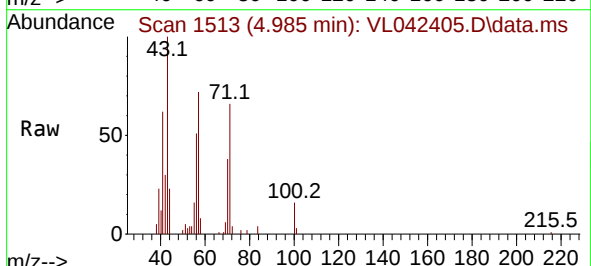
Tgt Ion: 41 Resp: 137485
Ion Ratio Lower Upper
41 100
42 6.2 56.2 84.4

Manual Integrations
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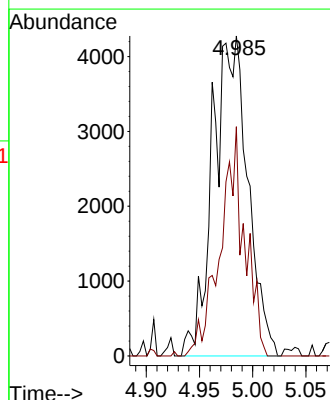
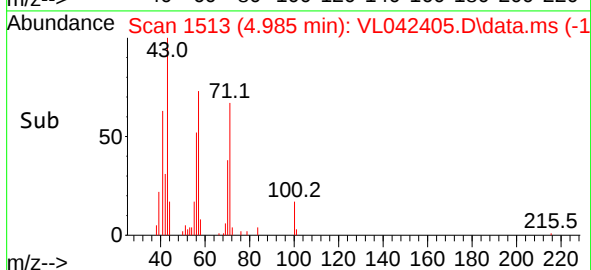
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

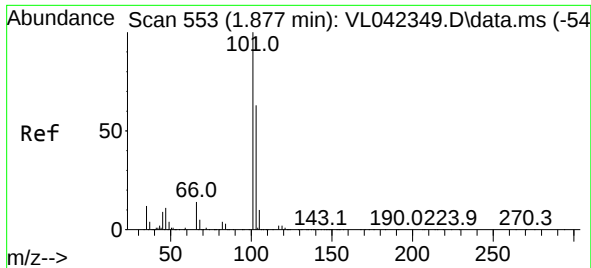


#10
Heptane
Concen: 0.361 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. 0.006 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18



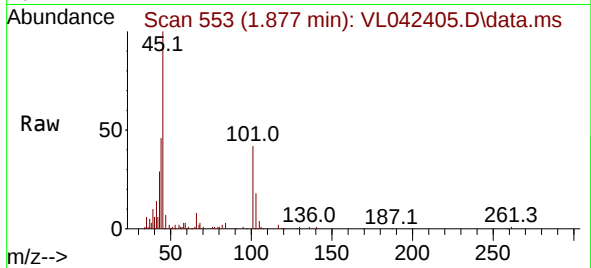
Tgt Ion: 43 Resp: 9835
Ion Ratio Lower Upper
43 100
57 0.0 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.216 ppbv m
RT: 1.877 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18

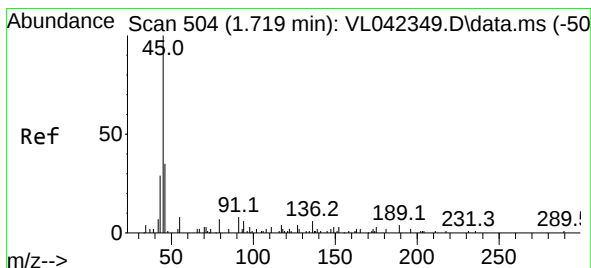
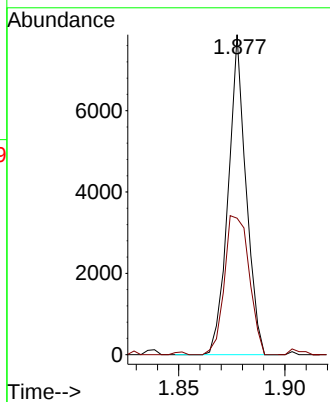
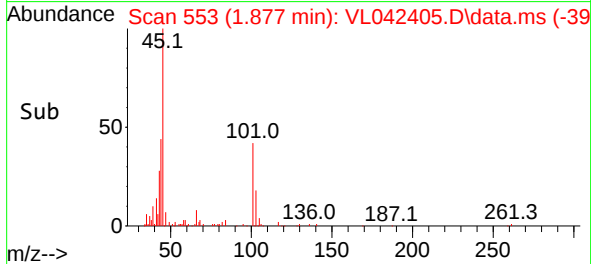
Instrument :
MSVOA_L
ClientSampleId :
IA1



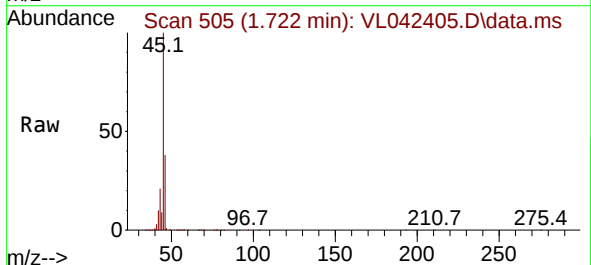
Tgt Ion: 101 Resp: 4590
Ion Ratio Lower Upper
101 100
103 42.7 50.1 75.1

Manual Integrations
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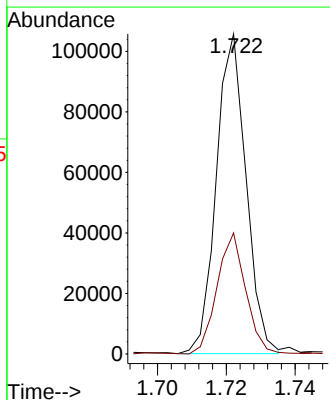
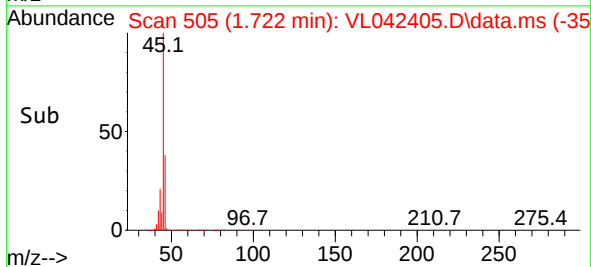
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

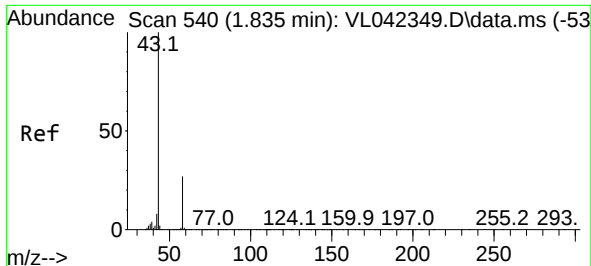


#13
Ethanol
Concen: 41.149 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18



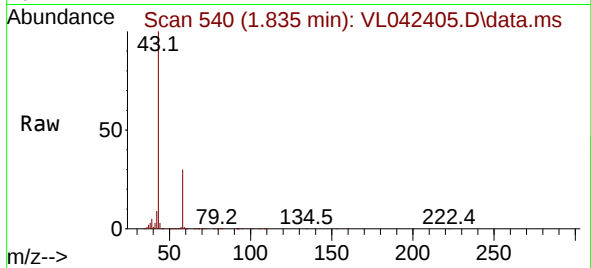
Tgt Ion: 45 Resp: 63374
Ion Ratio Lower Upper
45 100
46 37.7 21.9 87.7





#15
Acetone
Concen: 47.677 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18

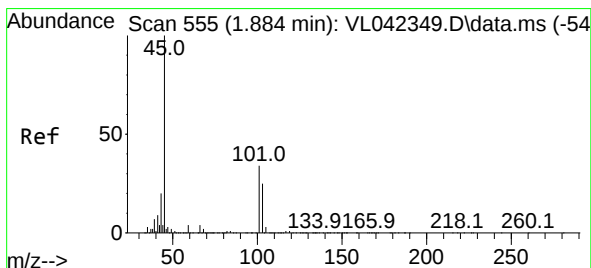
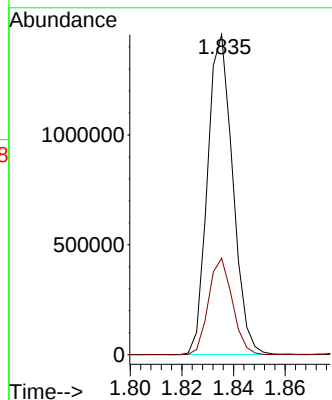
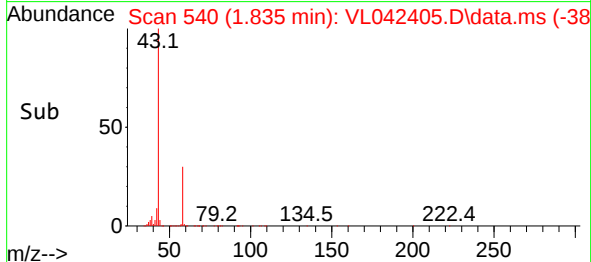
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 98703
Ion Ratio Lower Upper
43 100
58 28.5 22.4 33.6

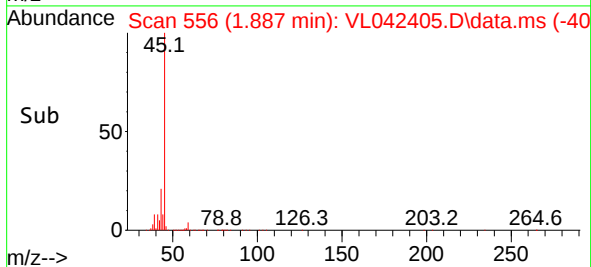
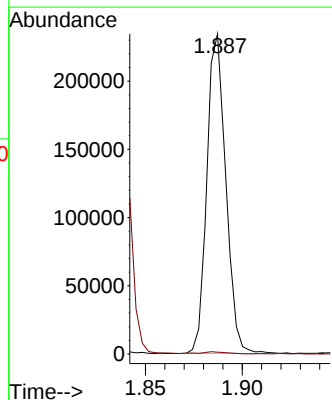
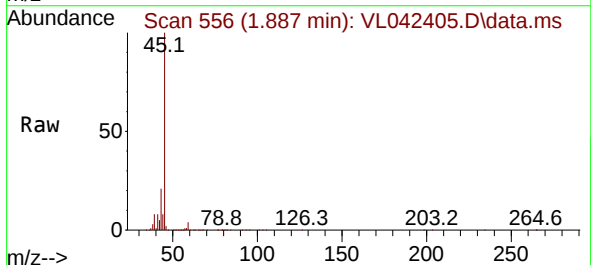
Manual Integrations
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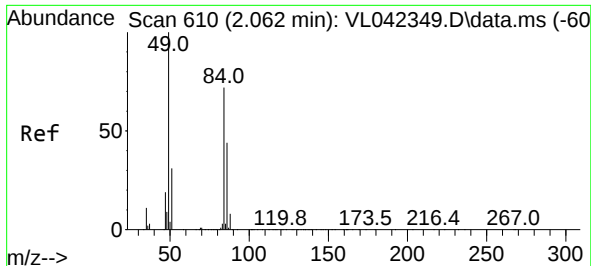
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#19
Isopropyl Alcohol
Concen: 13.856 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18

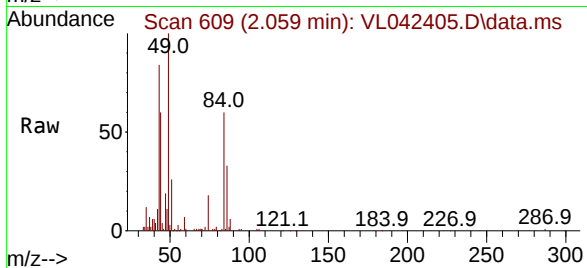
Tgt Ion: 45 Resp: 159355
Ion Ratio Lower Upper
45 100
58 176.6 34.5 51.7#





#20
Methylene Chloride
Concen: 0.913 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18

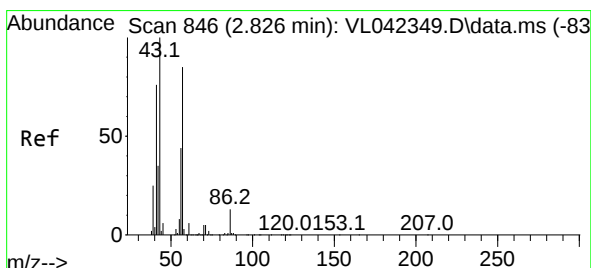
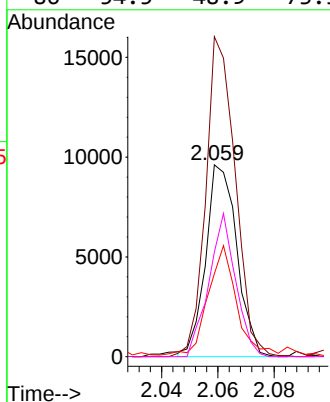
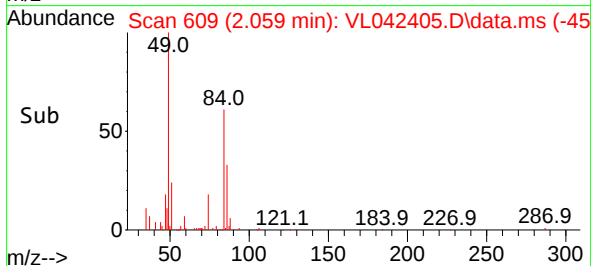
Instrument :
MSVOA_L
ClientSampleId :
IA1



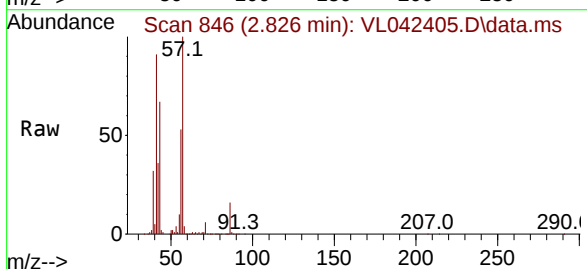
Tgt Ion: 84 Resp: 7400
Ion Ratio Lower Upper
84 100
49 166.2 111.6 167.4
51 41.4 35.1 52.7
86 54.5 48.9 73.3

Manual Integrations
APPROVED

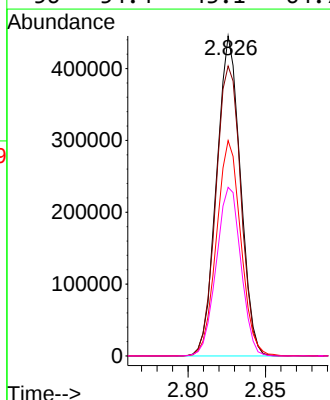
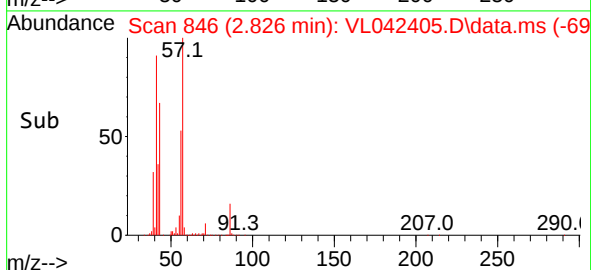
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

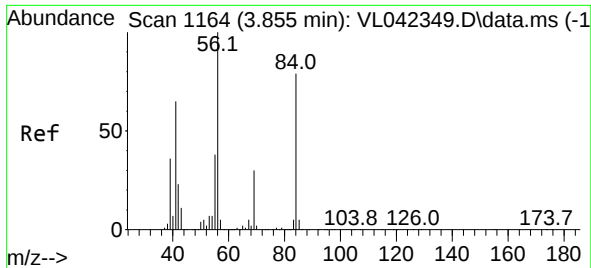


#26
Hexane
Concen: 23.097 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18



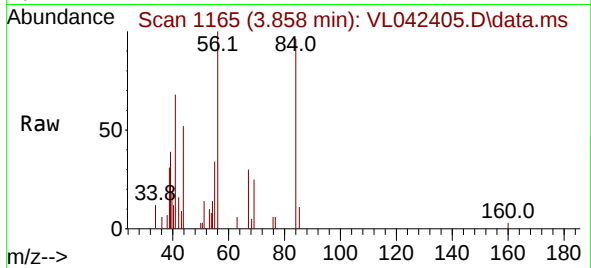
Tgt Ion: 57 Resp: 477107
Ion Ratio Lower Upper
57 100
41 95.3 77.9 116.9
43 68.8 208.4 312.6#
56 54.4 43.1 64.7





#30
Cyclohexane
Concen: 0.137 ppbv m
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18

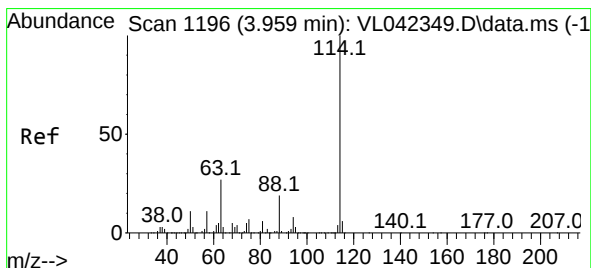
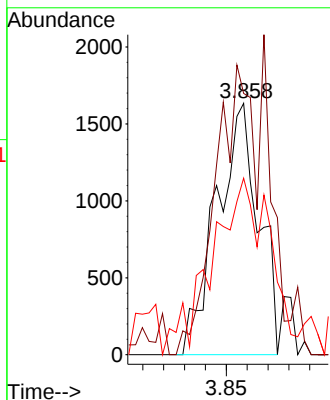
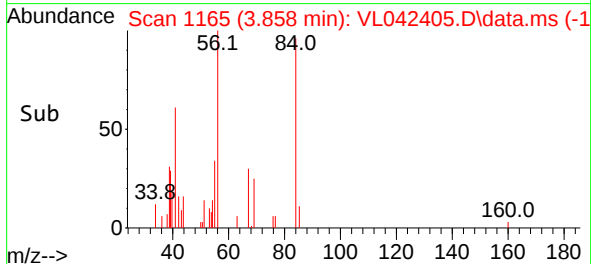
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 228
Ion Ratio Lower Upper
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41 110.7 67.4 101.0

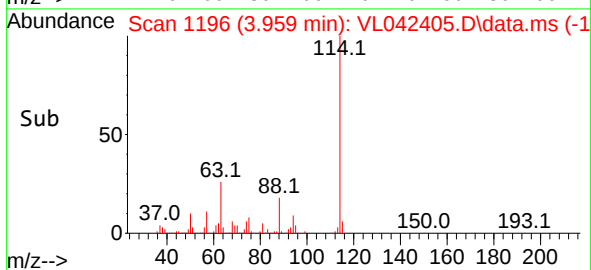
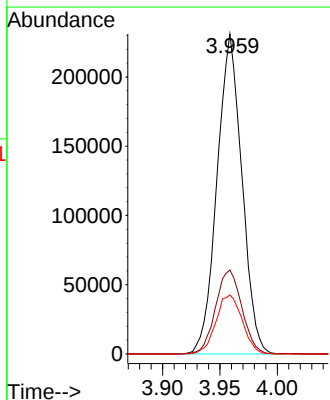
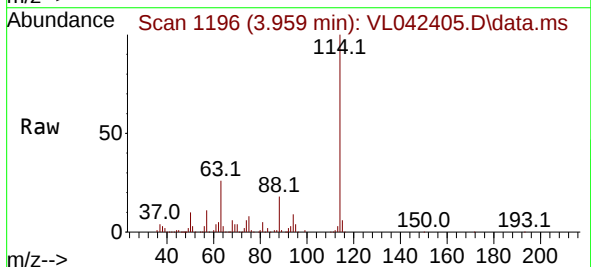
Manual Integrations
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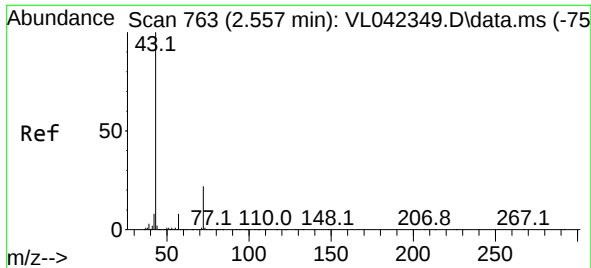
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18

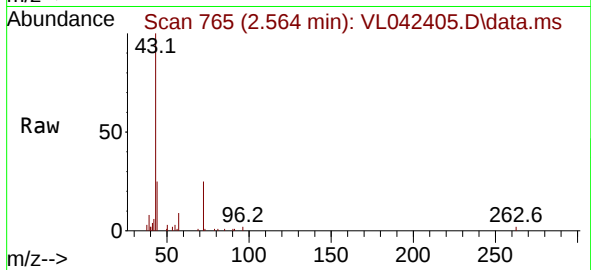
Tgt Ion:114 Resp: 348043
Ion Ratio Lower Upper
114 100
63 27.8 21.8 32.6
88 19.5 15.5 23.3





#34
2-Butanone
Concen: 0.261 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18

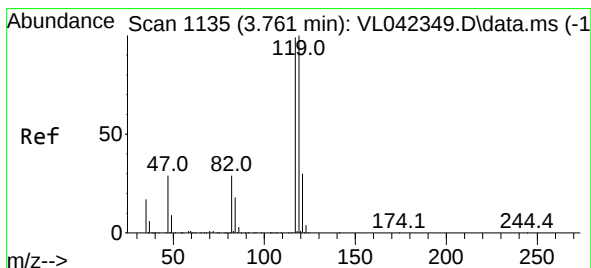
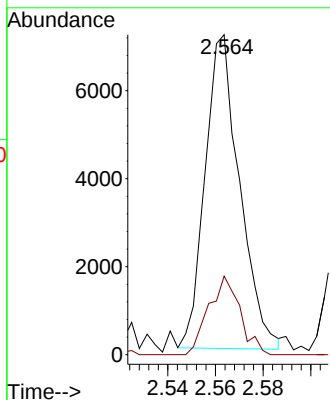
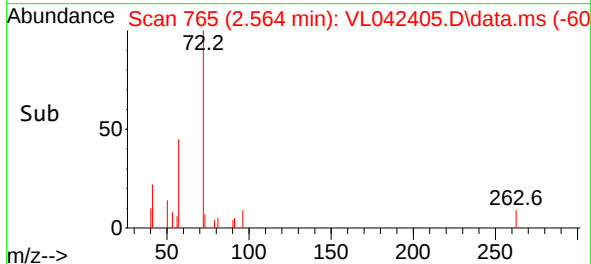
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 718
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2

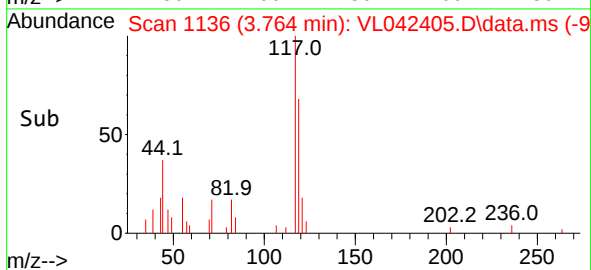
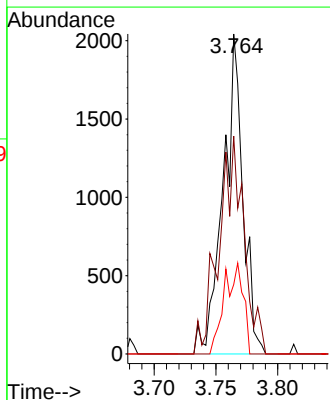
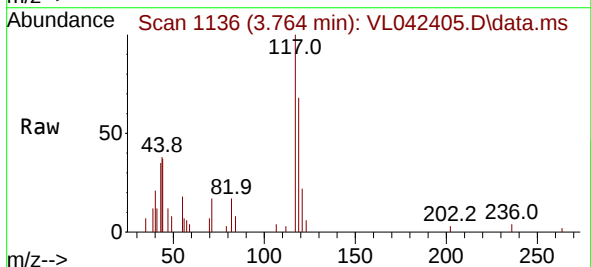
Manual Integrations
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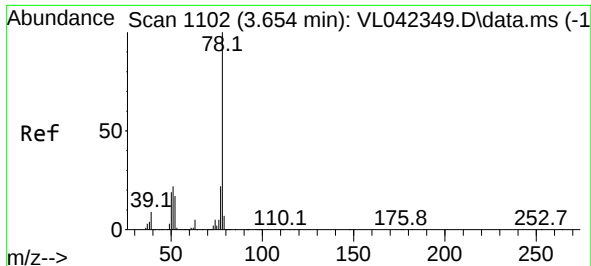
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 3.764 min Scan# 1136
Delta R.T. 0.003 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18

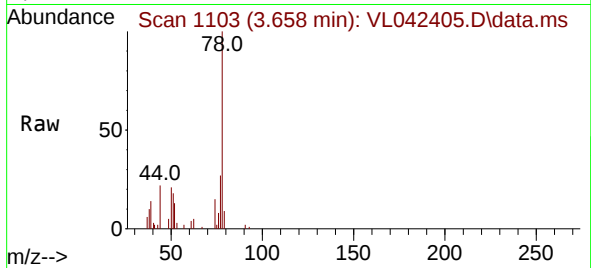
Tgt Ion:117 Resp: 2278
Ion Ratio Lower Upper
117 100
119 68.1 80.5 120.7#
121 21.7 24.2 36.2#





#36
Benzene
Concen: 0.184 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18

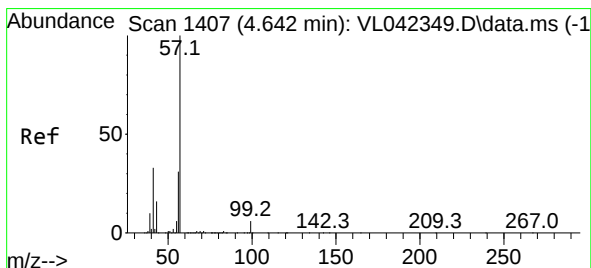
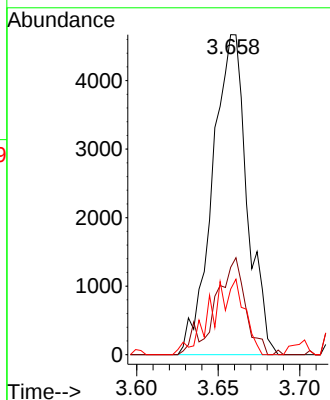
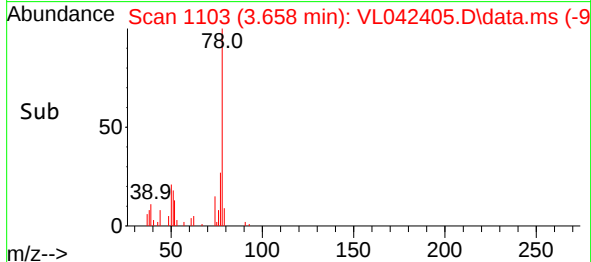
Instrument :
MSVOA_L
ClientSampleId :
IA1



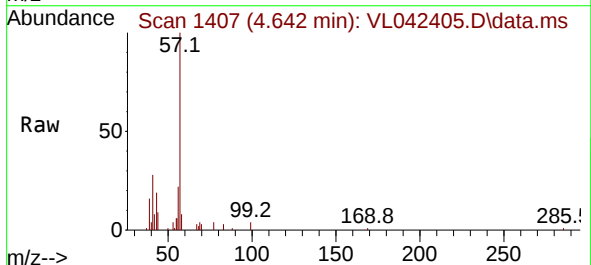
Tgt Ion: 78 Resp: 6904
Ion Ratio Lower Upper
78 100
77 27.3 17.4 26.0#
50 20.5 15.5 23.3

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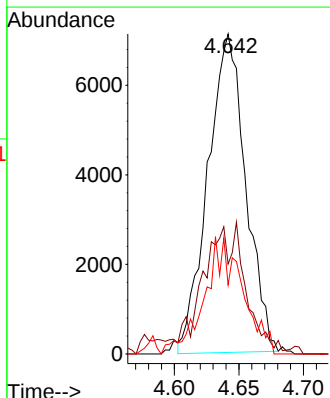
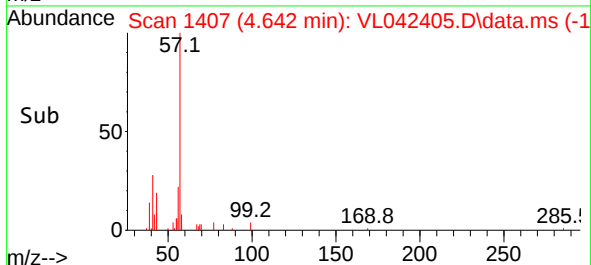
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

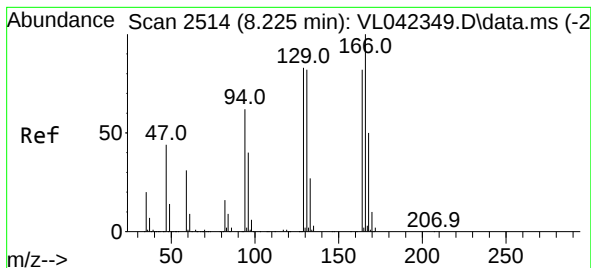


#44
2,2,4-Trimethylpentane
Concen: 0.224 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18



Tgt Ion: 57 Resp: 14523
Ion Ratio Lower Upper
57 100
41 49.5 27.2 40.8#
56 38.1 25.7 38.5





#52

Tetrachloroethene

Concen: 0.070 ppbv m

RT: 8.215 min Scan# 2115

Delta R.T. -0.010 min

Lab File: VL042405.D

Acq: 21 Apr 2025 15:18

Instrument :

MSVOA_L

ClientSampleId :

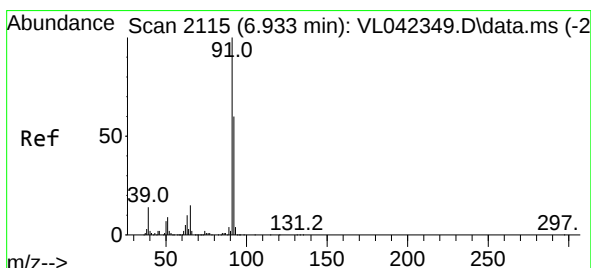
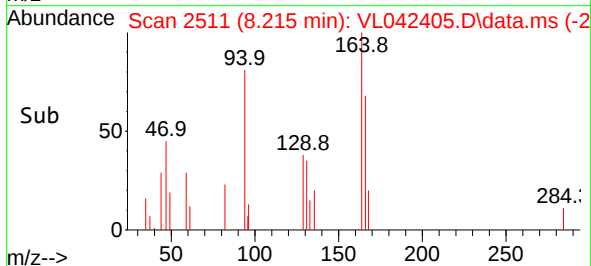
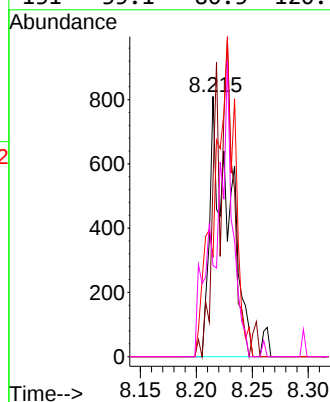
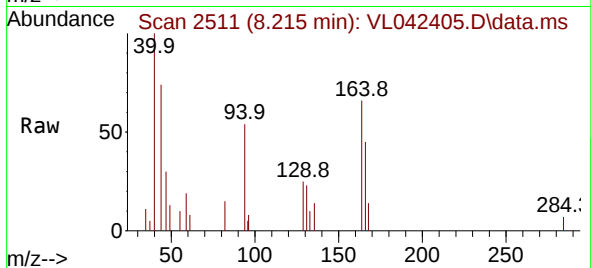
IA1

Tgt Ion:	164	Resp:	101
Ion	Ratio	Lower	Upper
164	100		
166	67.5	98.2	147.2
129	38.1	81.8	122.8
131	35.1	80.5	120.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#53

Toluene

Concen: 0.483 ppbv

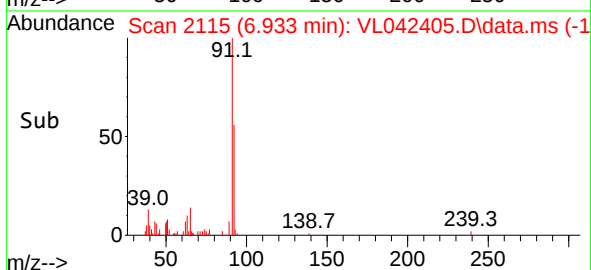
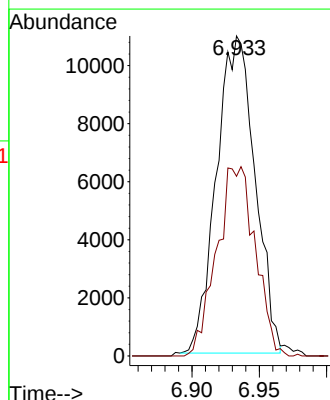
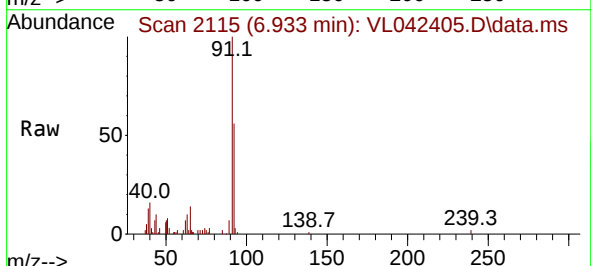
RT: 6.933 min Scan# 2115

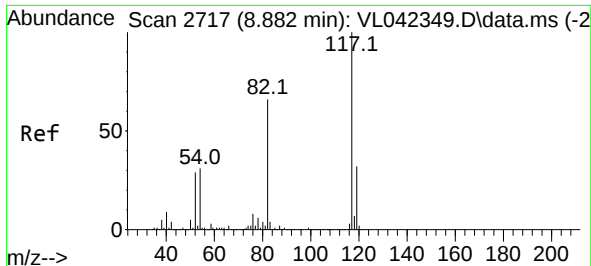
Delta R.T. 0.000 min

Lab File: VL042405.D

Acq: 21 Apr 2025 15:18

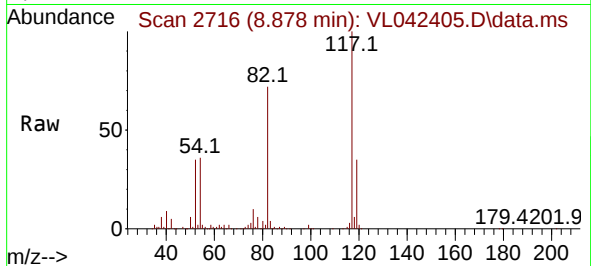
Tgt Ion:	91	Resp:	21738
Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.2	72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18

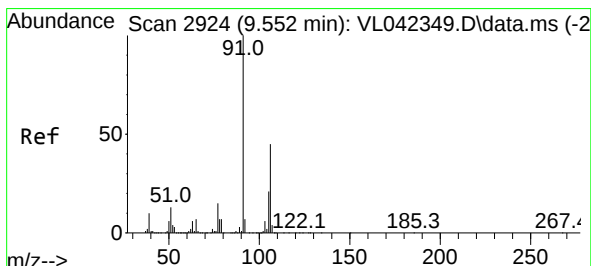
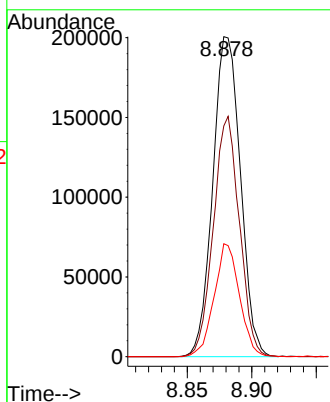
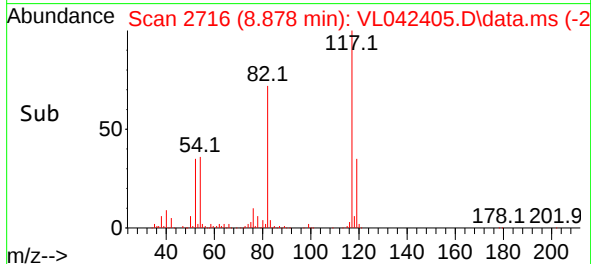
Instrument :
MSVOA_L
ClientSampleId :
IA1



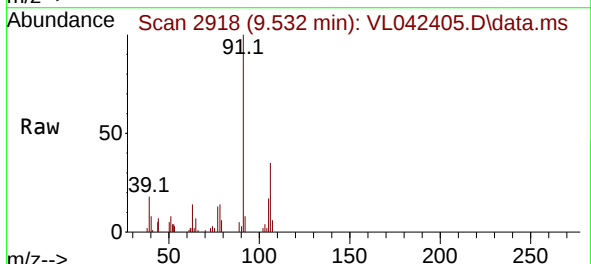
Tgt Ion:117 Resp: 29893
Ion Ratio Lower Upper
117 100
82 70.7 57.8 86.6
119 32.3 25.2 37.8

Manual Integrations
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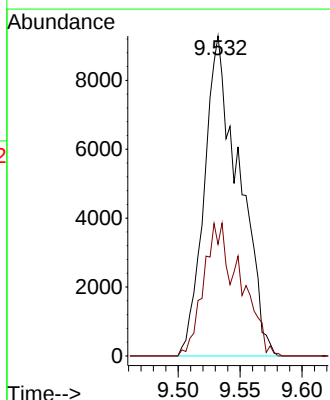
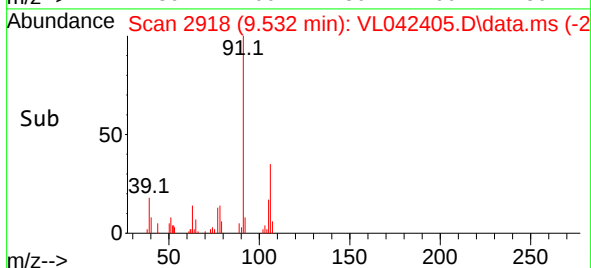
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

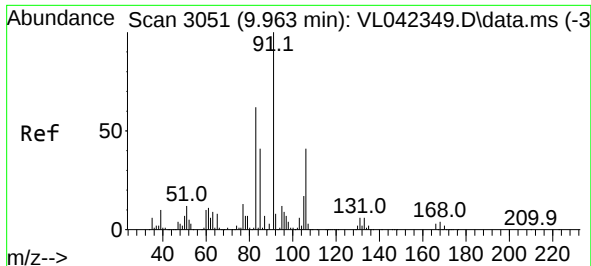


#59
m/p-Xylene
Concen: 0.382 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18



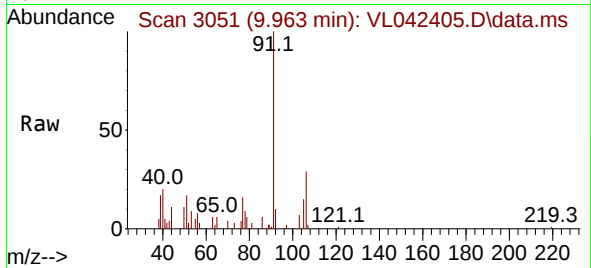
Tgt Ion: 91 Resp: 18242
Ion Ratio Lower Upper
91 100
106 43.7 35.4 53.2





#60
o-Xylene
Concen: 0.120 ppbv m
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18

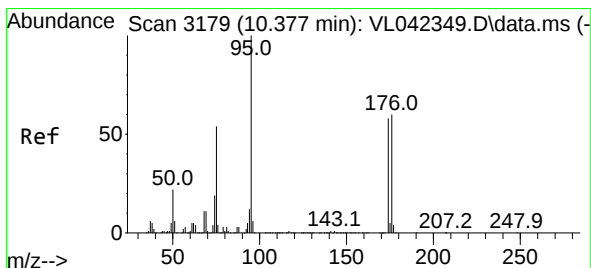
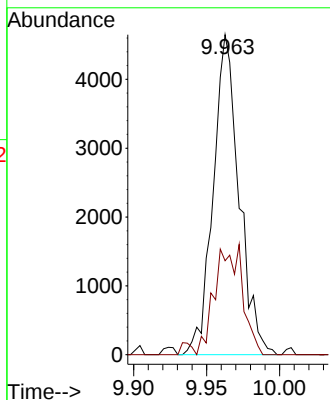
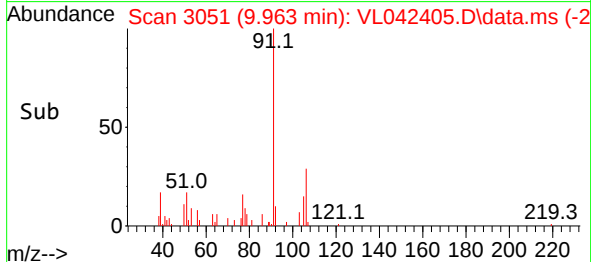
Instrument :
MSVOA_L
ClientSampleId :
IA1



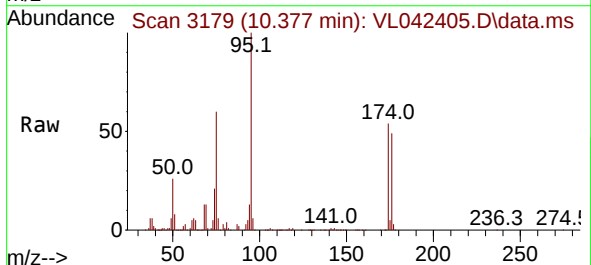
Tgt Ion: 91 Resp: 5744
Ion Ratio Lower Upper
91 100
106 38.0 21.1 63.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.567 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042405.D
Acq: 21 Apr 2025 15:18



Tgt Ion: 95 Resp: 259568
Ion Ratio Lower Upper
95 100
174 53.6 48.5 72.7
175 4.1 3.7 5.5

