

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042374.D
 Acq On : 18 Apr 2025 00:28
 Operator : SY/MD
 Sample : Q1668-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:47:53 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	104470	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	294101	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	258444	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	213140	10.036	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	3131	0.170	ppbv	89
4) Chloromethane	1.534	50	1444	0.198	ppbv	96
9) Propene	1.486	41	1595	0.199	ppbv	92
10) Heptane	4.978	43	12111m	0.539	ppbv	
13) Ethanol	1.722	45	89338	70.220	ppbv	76
15) Acetone	1.835	43	28193	1.649	ppbv	98
19) Isopropyl Alcohol	1.887	45	6632	0.698	ppbv #	1
20) Methylene Chloride	2.062	84	8259	1.233	ppbv	86
26) Hexane	2.823	57	17764	1.041	ppbv #	33
30) Cyclohexane	3.858	84	13322	0.966	ppbv	97
34) 2-Butanone	2.564	43	5208m	0.224	ppbv	
36) Benzene	3.654	78	5447m	0.172	ppbv	
50) 4-Methyl-2-Pentanone	5.755	43	200233	5.180	ppbv	98
53) Toluene	6.933	91	17117m	0.450	ppbv	
58) Ethyl Benzene	9.354	91	13008	0.254	ppbv	93
59) m/p-Xylene	9.532	91	104338	2.529	ppbv	99
60) o-Xylene	9.963	91	22264	0.536	ppbv	99
61) Styrene	9.872	104	8460	0.427	ppbv	97
64) n-propylbenzene	10.992	120	2068	0.135	ppbv	91
70) n-Butylbenzene	12.280	91	7143m	0.101	ppbv	
72) 4-Ethyltoluene	11.125	105	14677	0.289	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.202	105	14990	0.334	ppbv	89
74) 1,2,4-Trimethylbenzene	11.536	105	55625	1.062	ppbv #	62
79) Naphthalene	13.516	128	9572	0.153	ppbv #	92

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

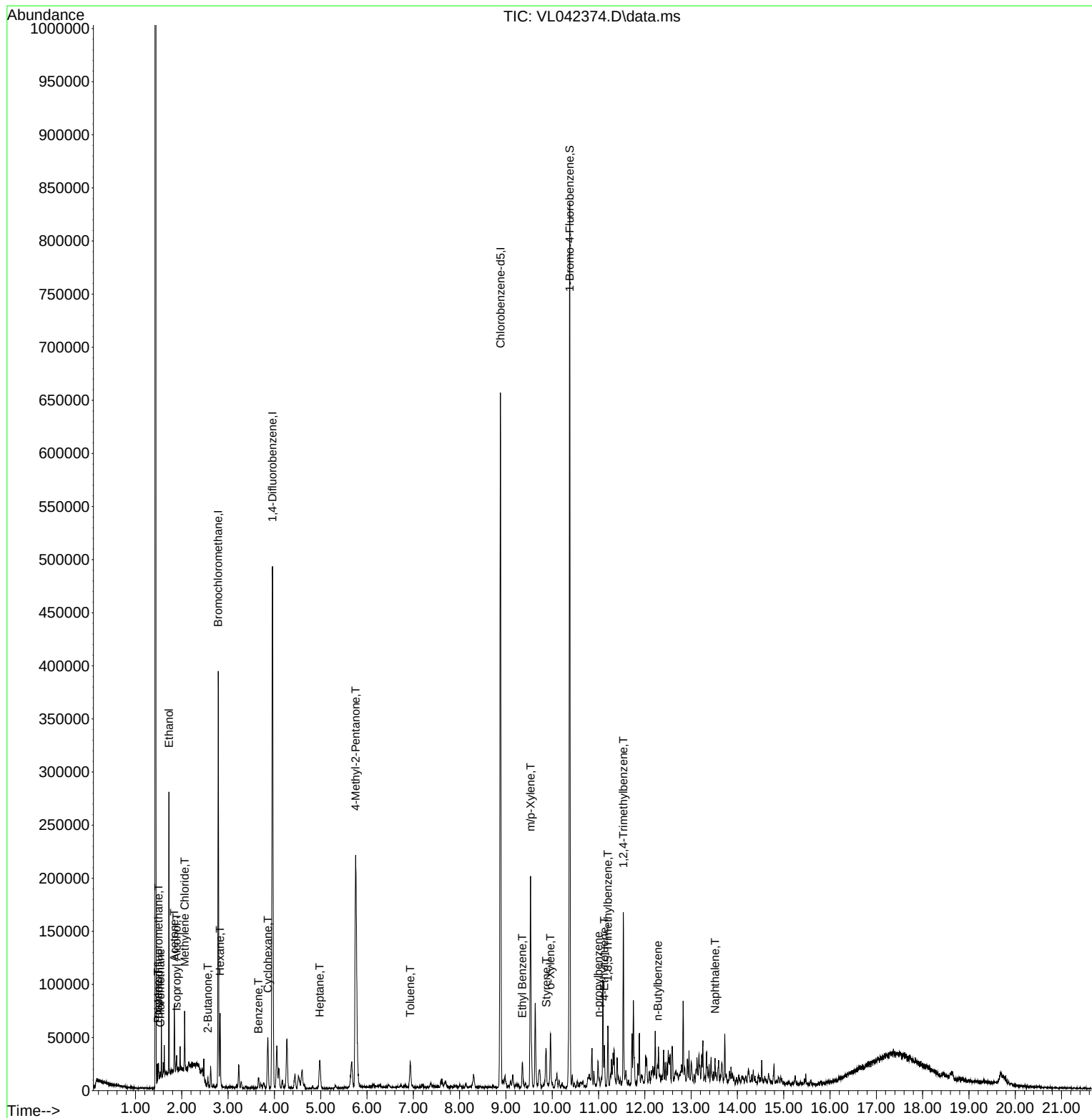
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042374.D
Acq On : 18 Apr 2025 00:28
Operator : SY/MD
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Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

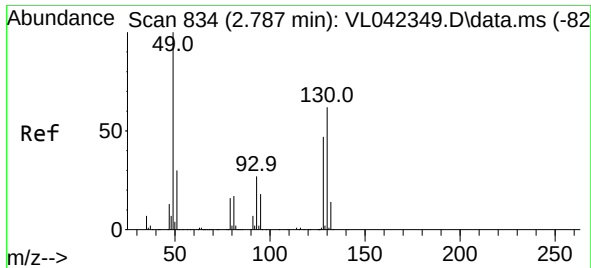
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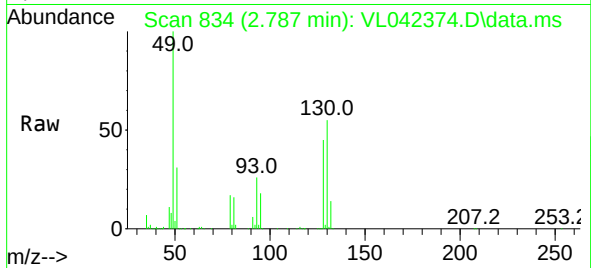
Quant Time: Apr 18 02:47:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

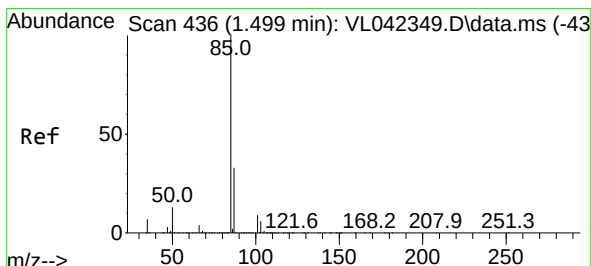
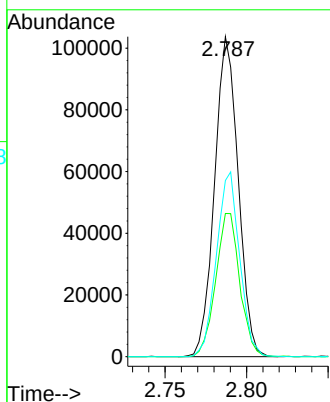
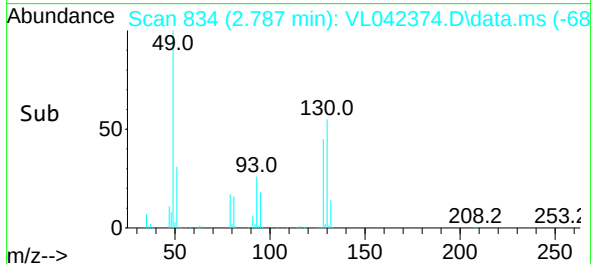
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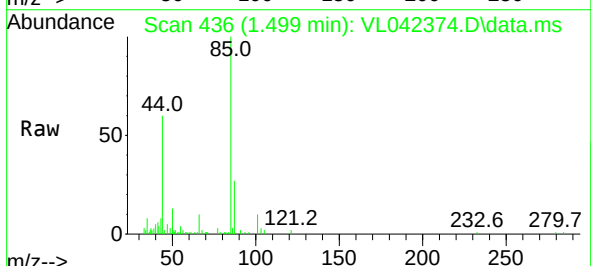
Tgt Ion: 49 Resp: 104470
Ion Ratio Lower Upper
49 100
128 45.6 22.8 68.4
130 56.8 29.3 88.0

Manual Integrations
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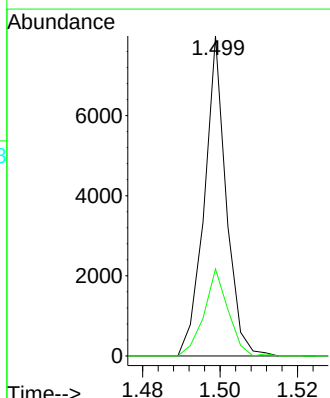
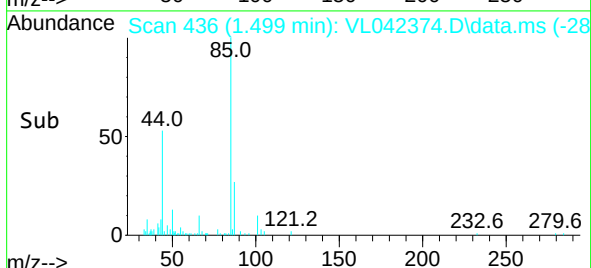
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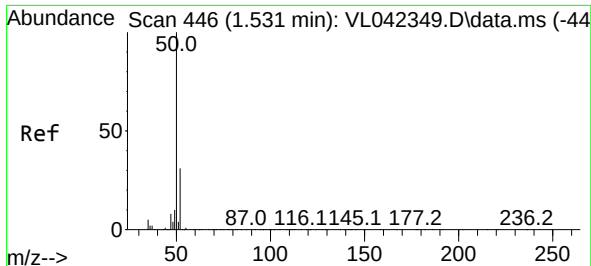


#2
Dichlorodifluoromethane
Concen: 0.170 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28



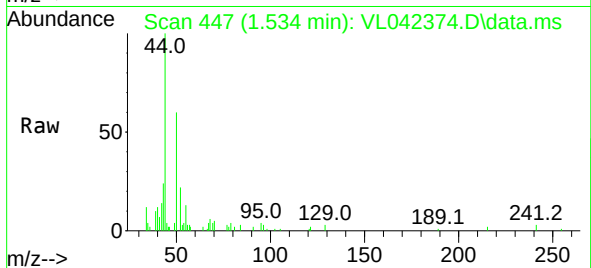
Tgt Ion: 85 Resp: 3131
Ion Ratio Lower Upper
85 100
87 27.2 26.6 39.8





#4
Chloromethane
Concen: 0.198 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

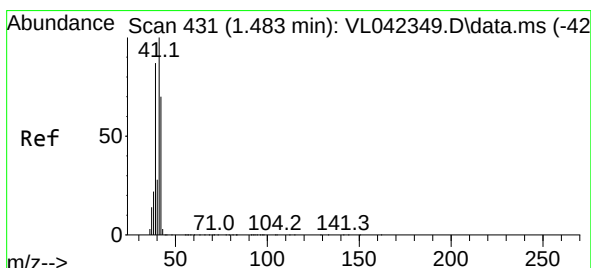
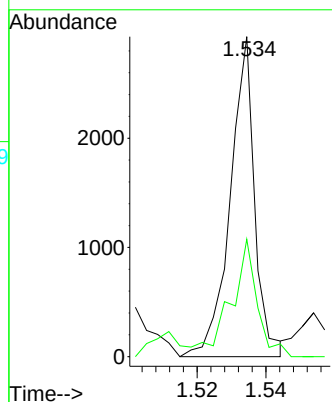
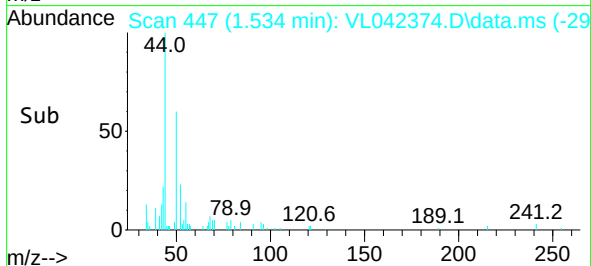
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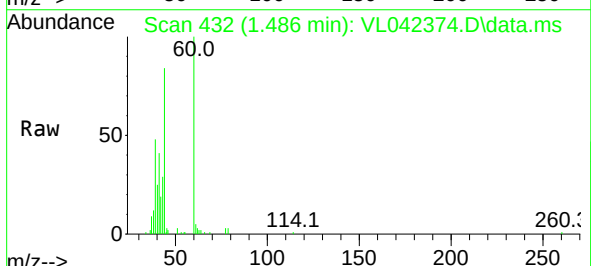
Tgt Ion: 50 Resp: 144
Ion Ratio Lower Upper
50 100
52 33.3 24.7 37.1

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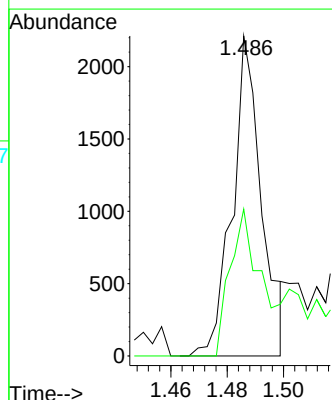
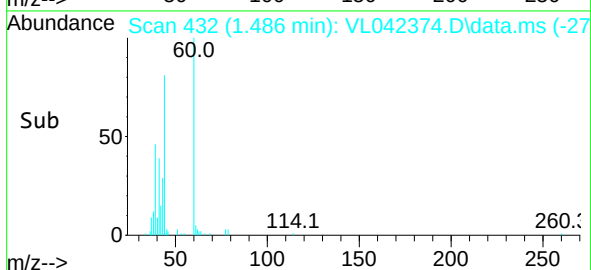
Reviewed By :Semsettin Yesilyurt 04/18/2025
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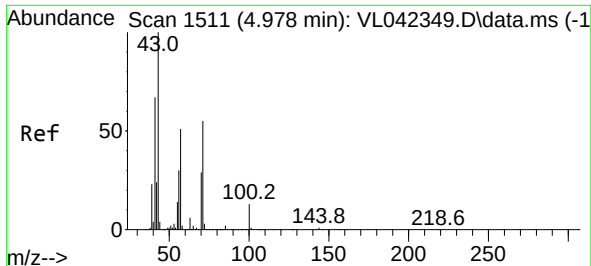


#9
Propene
Concen: 0.199 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28



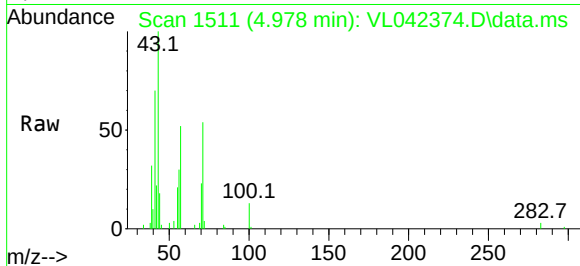
Tgt Ion: 41 Resp: 1595
Ion Ratio Lower Upper
41 100
42 63.9 56.2 84.4





#10
Heptane
Concen: 0.539 ppbv m
RT: 4.978 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

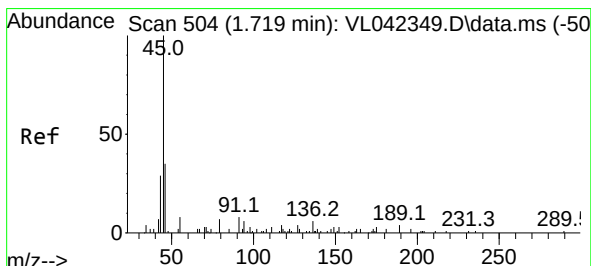
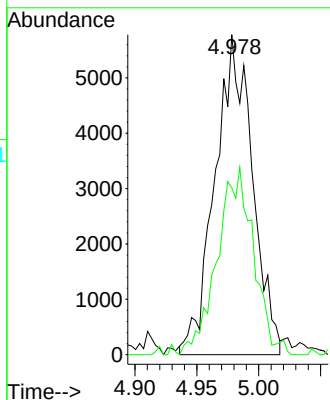
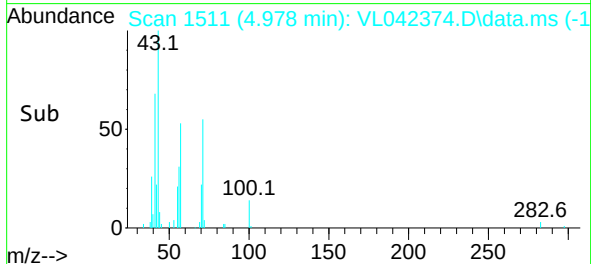
Instrument :
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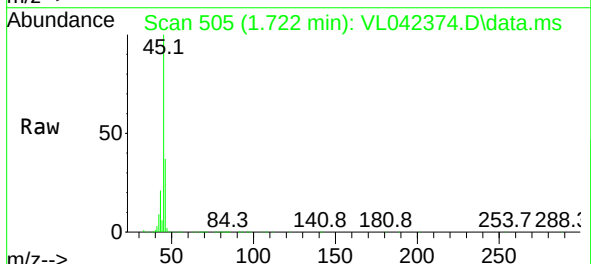
Tgt Ion: 43 Resp: 1211
Ion Ratio Lower Upper
43 100
57 0.0 39.9 59.9

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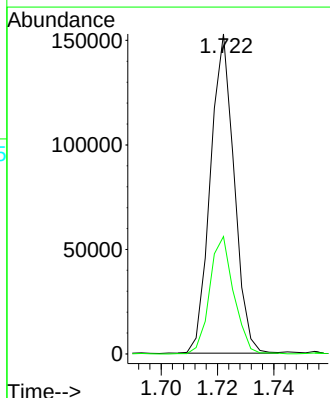
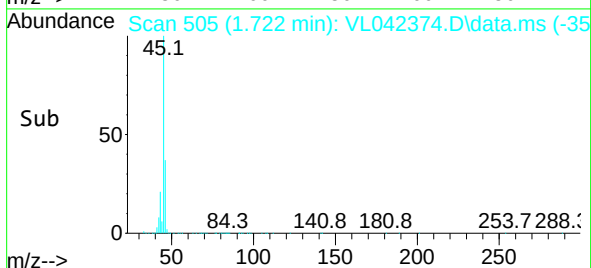
Reviewed By :Semsettin Yesilyurt 04/18/2025
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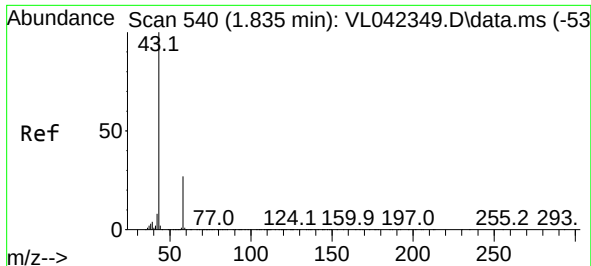


#13
Ethanol
Concen: 70.220 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28



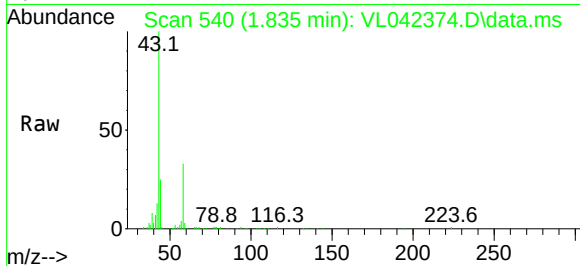
Tgt Ion: 45 Resp: 89338
Ion Ratio Lower Upper
45 100
46 37.5 21.9 87.7





#15
Acetone
Concen: 1.649 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

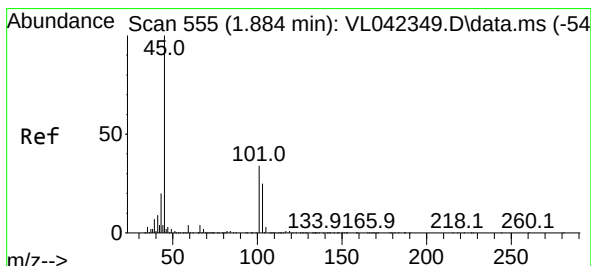
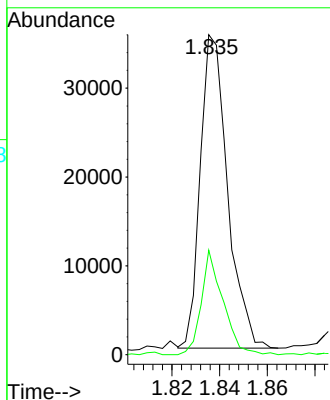
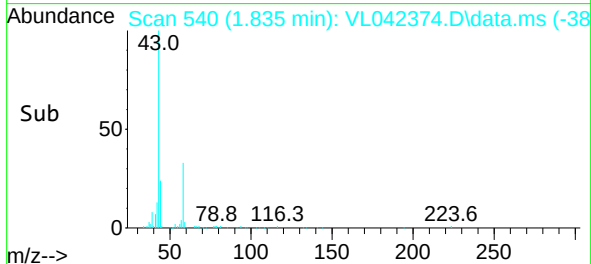
Instrument :
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ClientSampleId :
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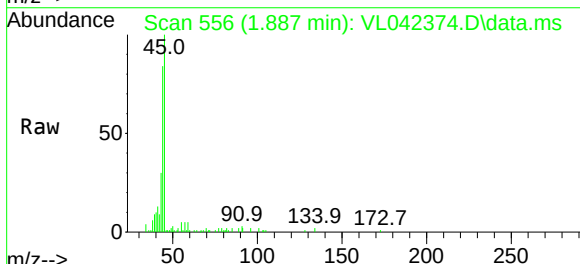
Tgt Ion: 43 Resp: 2819
Ion Ratio Lower Upper
43 100
58 27.1 22.4 33.6

Manual Integrations
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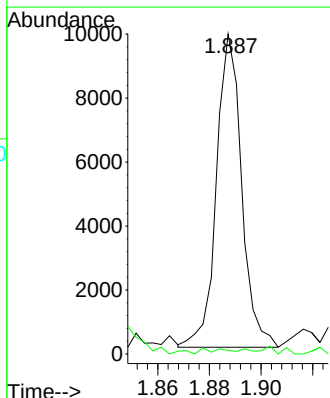
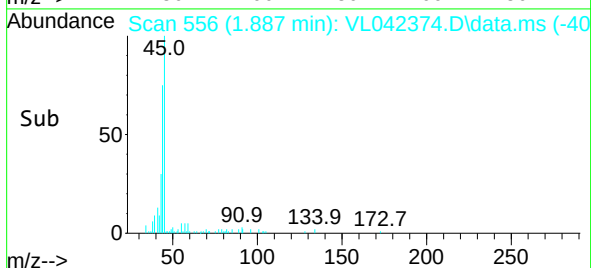
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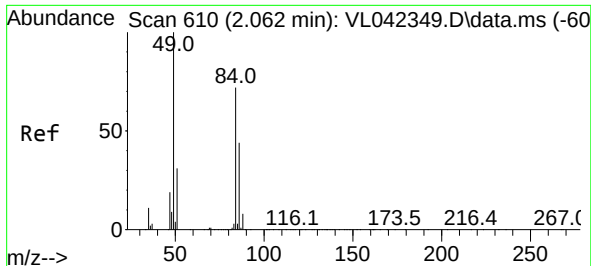


#19
Isopropyl Alcohol
Concen: 0.698 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28



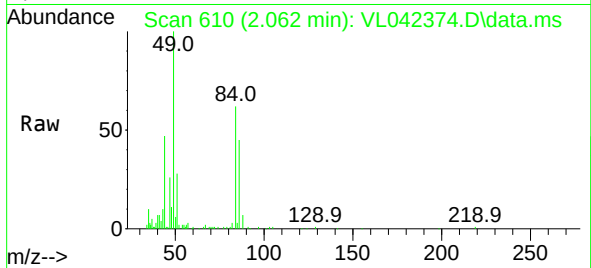
Tgt Ion: 45 Resp: 6632
Ion Ratio Lower Upper
45 100
58 115.4 34.5 51.7#





#20
Methylene Chloride
Concen: 1.233 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

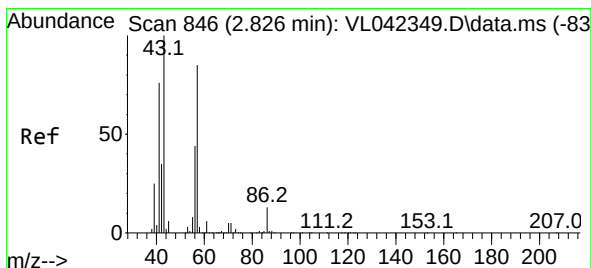
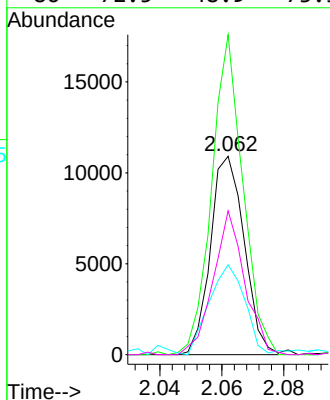
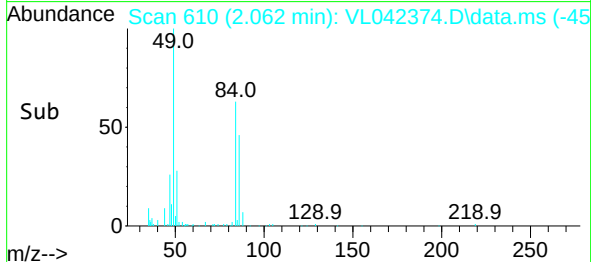
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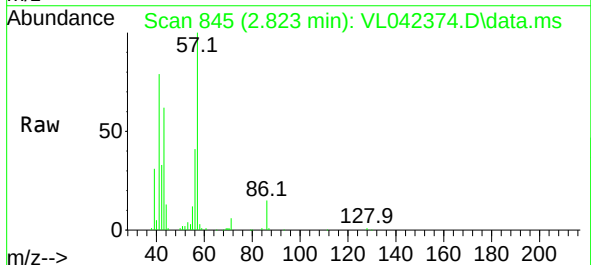
Tgt Ion: 84 Resp: 8259
Ion Ratio Lower Upper
84 100
49 161.3 111.6 167.4
51 44.5 35.1 52.7
86 72.5 48.9 73.3

Manual Integrations
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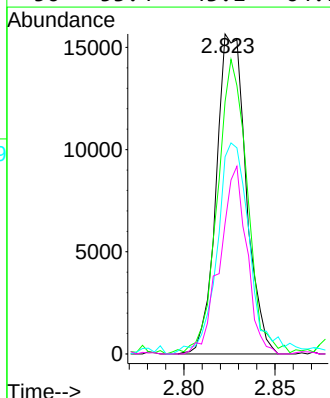
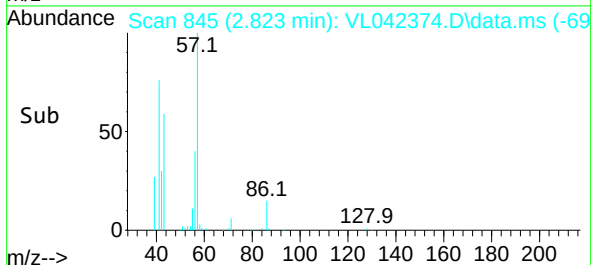
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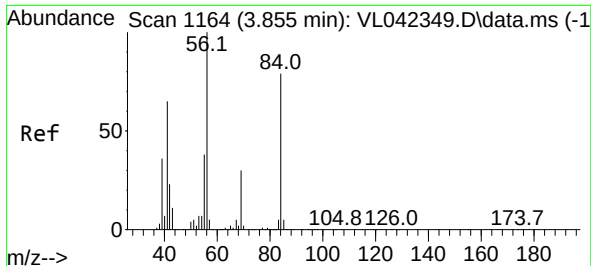


#26
Hexane
Concen: 1.041 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28



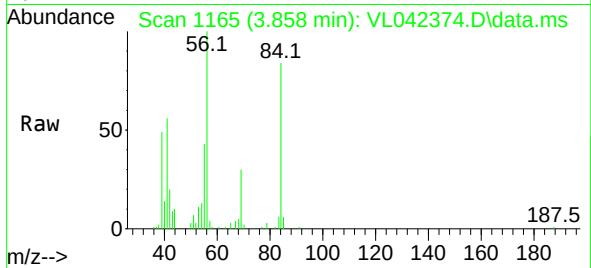
Tgt Ion: 57 Resp: 17764
Ion Ratio Lower Upper
57 100
41 92.1 77.9 116.9
43 74.3 208.4 312.6#
56 53.4 43.1 64.7





#30
Cyclohexane
Concen: 0.966 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

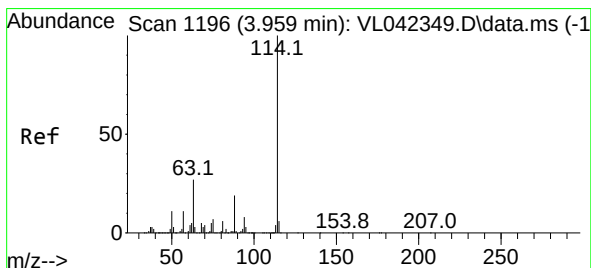
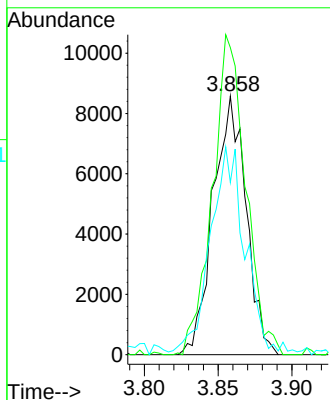
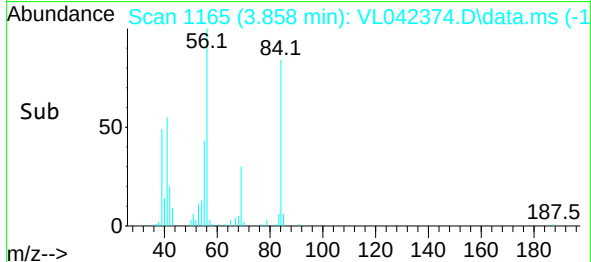
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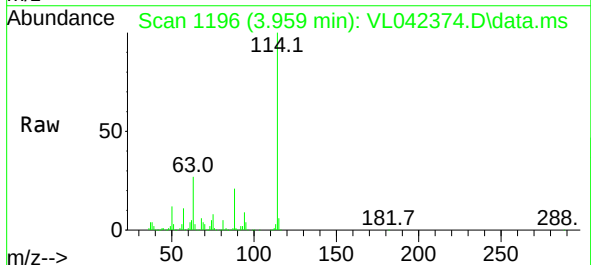
Tgt Ion: 84 Resp: 1332
Ion Ratio Lower Upper
84 100
56 124.4 101.0 151.4
41 88.1 67.4 101.0

Manual Integrations
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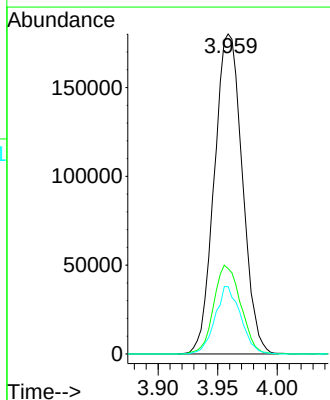
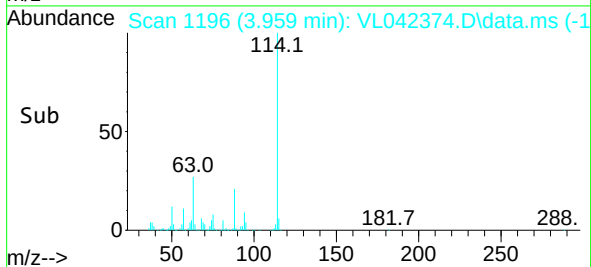
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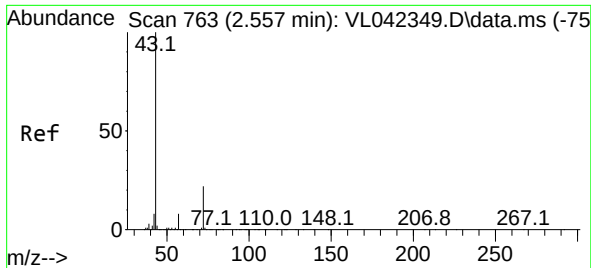


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28



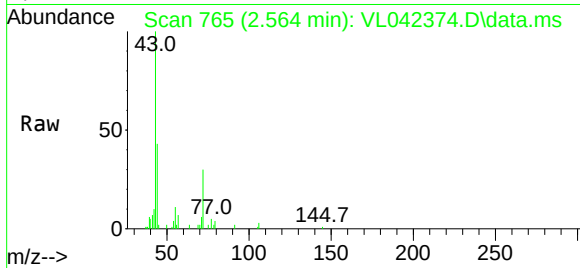
Tgt Ion:114 Resp: 294101
Ion Ratio Lower Upper
114 100
63 26.8 21.8 32.6
88 19.2 15.5 23.3





#34
2-Butanone
Concen: 0.224 ppbv m
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

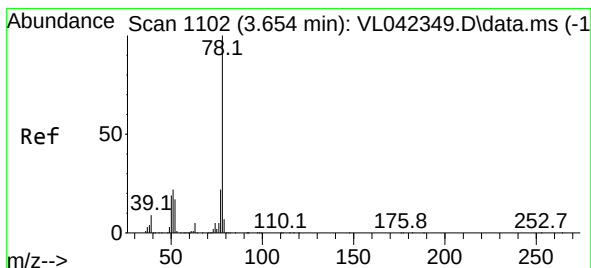
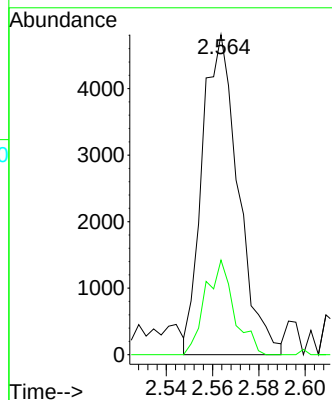
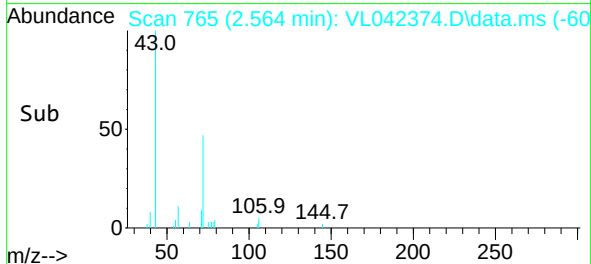
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Tgt Ion: 43 Resp: 5208
Ion Ratio Lower Upper
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72 23.6 18.2 27.2

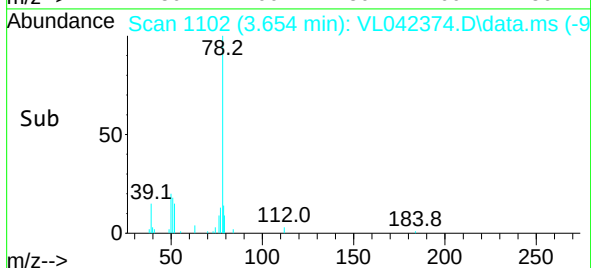
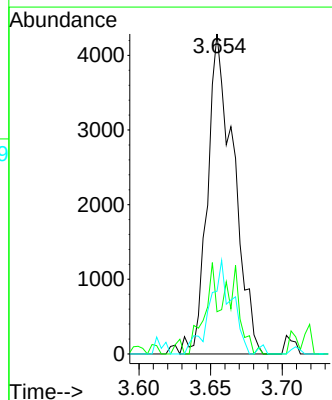
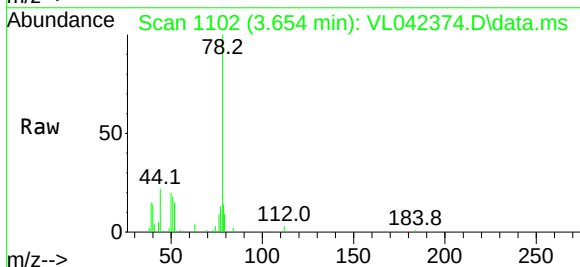
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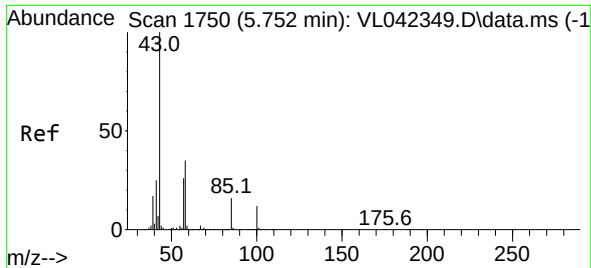
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 0.172 ppbv m
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 78 Resp: 5447
Ion Ratio Lower Upper
78 100
77 13.2 17.4 26.0#
50 19.6 15.5 23.3





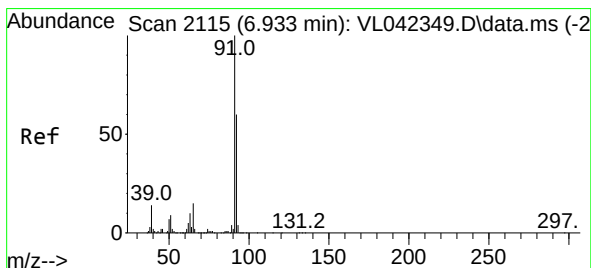
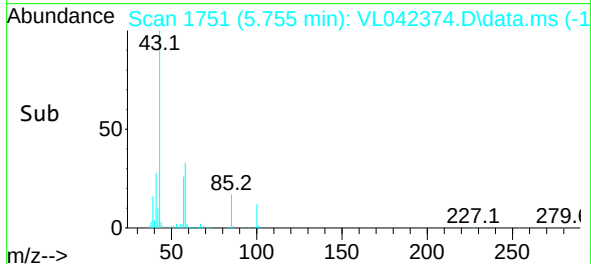
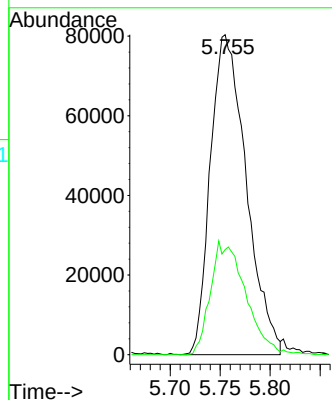
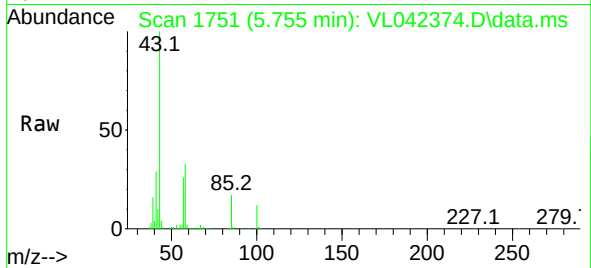
#50
4-Methyl-2-Pentanone
Concen: 5.180 ppbv
RT: 5.755 min Scan# 1750
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 43 Resp: 20023
Ion Ratio Lower Upper
43 100
58 34.8 28.6 43.0

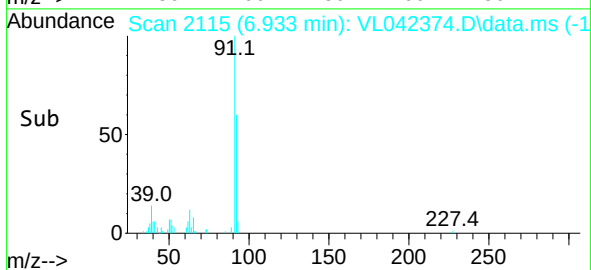
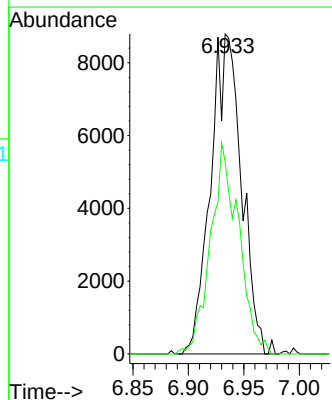
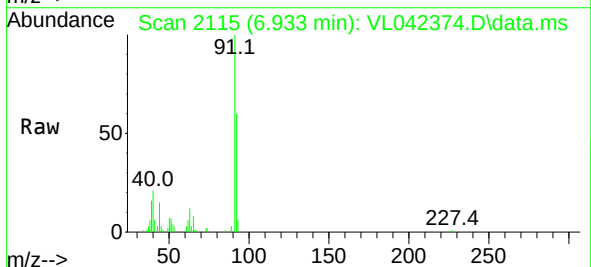
Manual Integrations
APPROVED

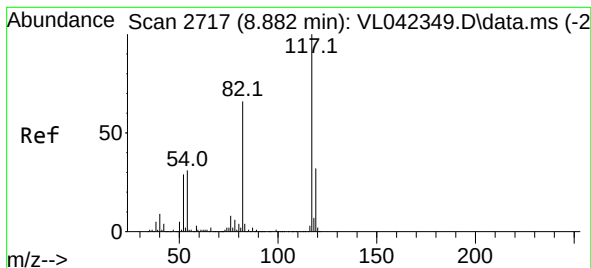
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#53
Toluene
Concen: 0.450 ppbv m
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 91 Resp: 17117
Ion Ratio Lower Upper
91 100
92 59.7 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.000 min

Lab File: VL042374.D

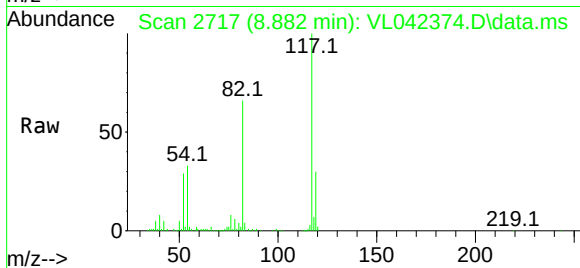
Acq: 18 Apr 2025 00:28

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025DL

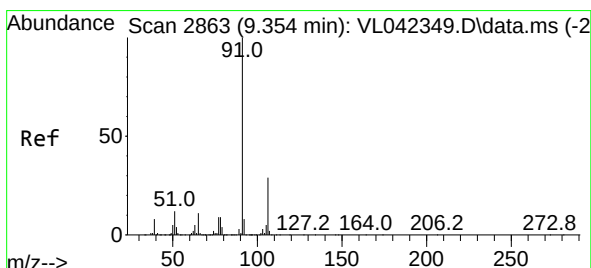
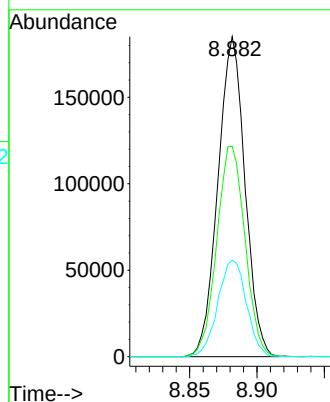
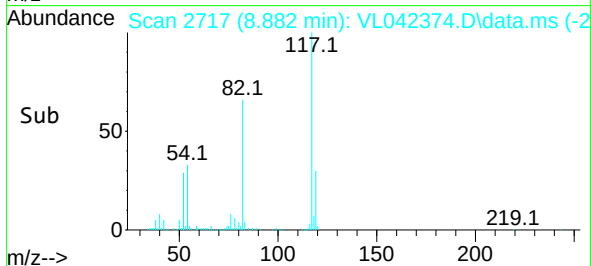


Tgt Ion:	117	Resp:	25844
Ion	Ratio	Lower	Upper
117	100		
82	68.7	57.8	86.6
119	31.9	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58

Ethyl Benzene

Concen: 0.254 ppbv

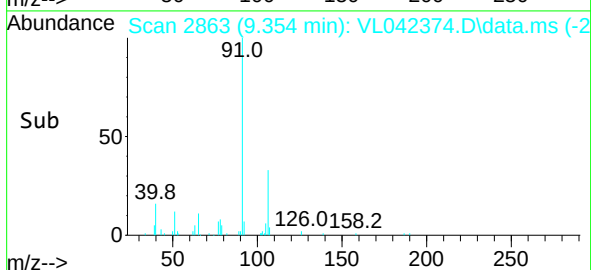
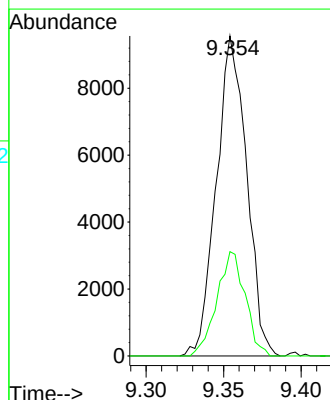
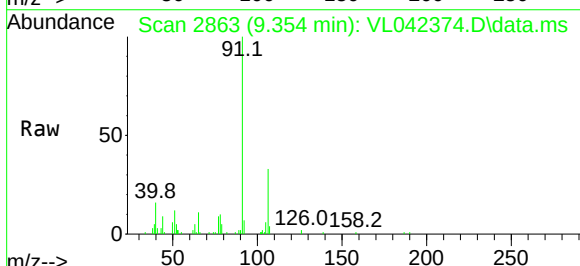
RT: 9.354 min Scan# 2863

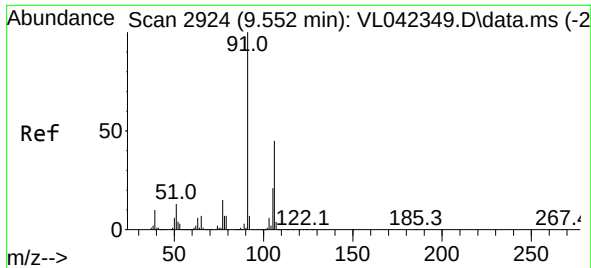
Delta R.T. 0.000 min

Lab File: VL042374.D

Acq: 18 Apr 2025 00:28

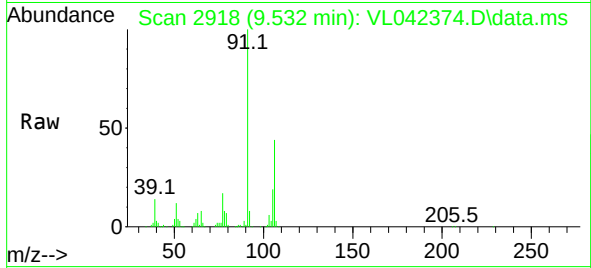
Tgt Ion:	91	Resp:	13008
Ion	Ratio	Lower	Upper
91	100		
106	32.6	23.0	34.4





#59
m/p-Xylene
Concen: 2.529 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

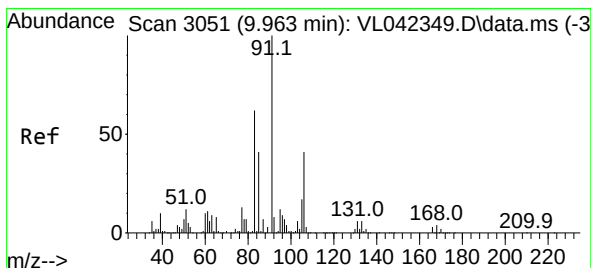
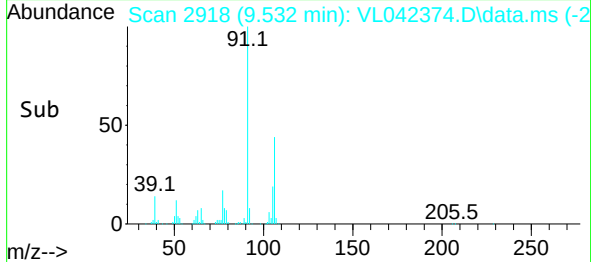
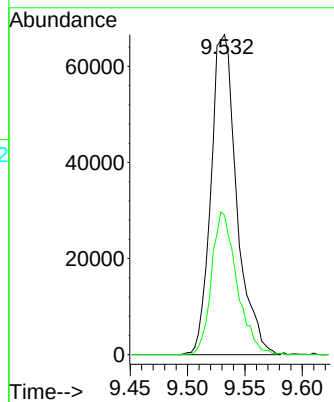
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL



Tgt Ion: 91 Resp: 104338
Ion Ratio Lower Upper
91 100
106 43.8 35.4 53.2

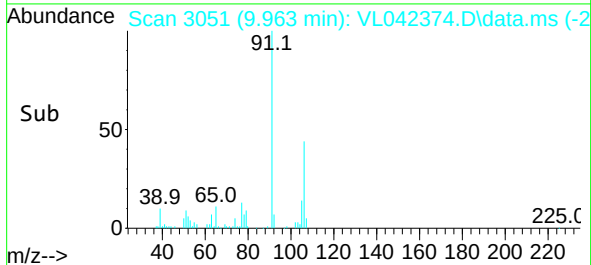
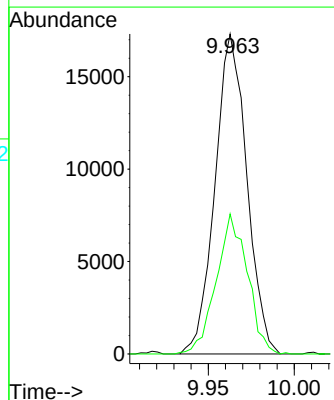
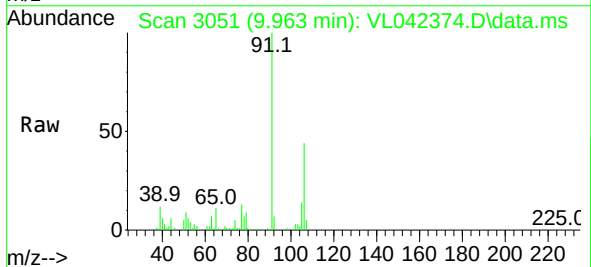
Manual Integrations
APPROVED

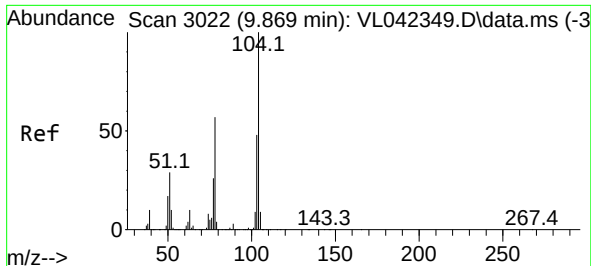
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#60
o-Xylene
Concen: 0.536 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 91 Resp: 22264
Ion Ratio Lower Upper
91 100
106 42.8 21.1 63.4





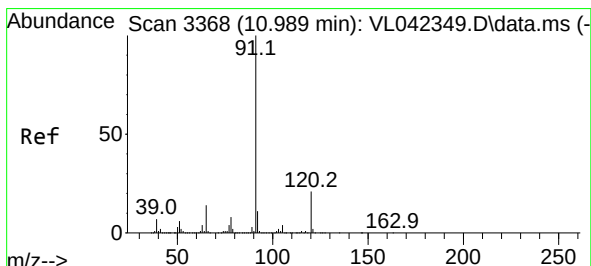
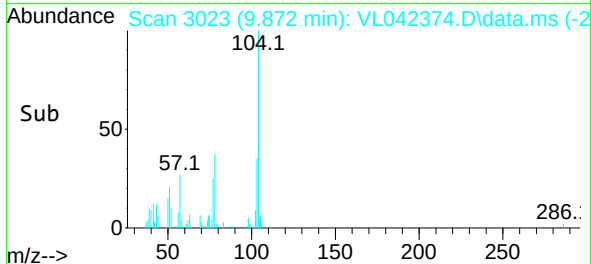
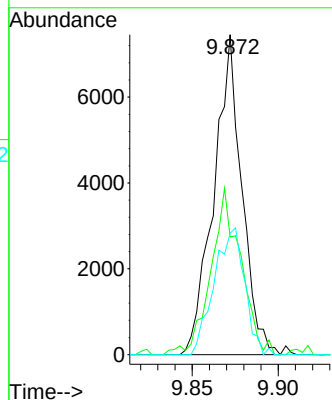
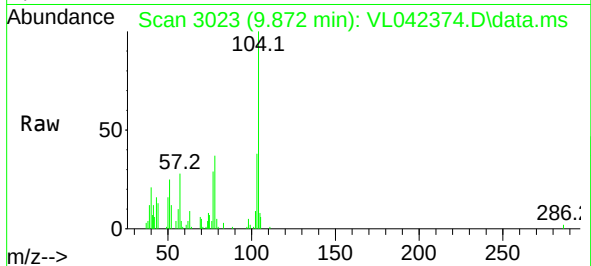
#61
Styrene
Concen: 0.427 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion:104 Resp: 8460
Ion Ratio Lower Upper
104 100
78 57.0 44.6 66.8
103 43.3 37.4 56.0

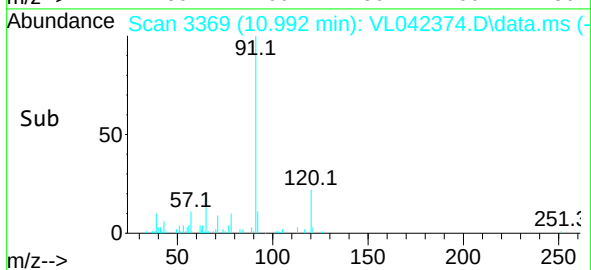
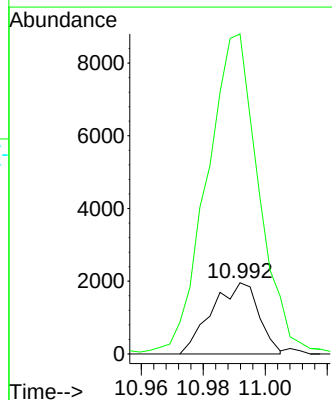
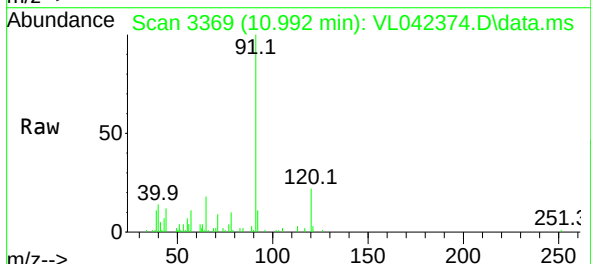
Manual Integrations
APPROVED

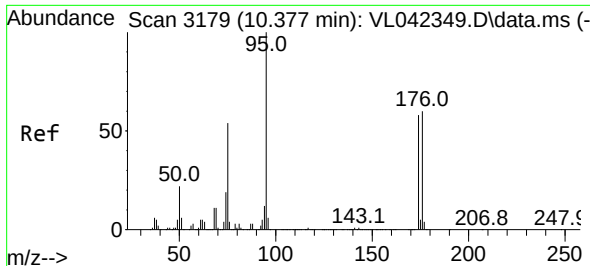
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#64
n-propylbenzene
Concen: 0.135 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

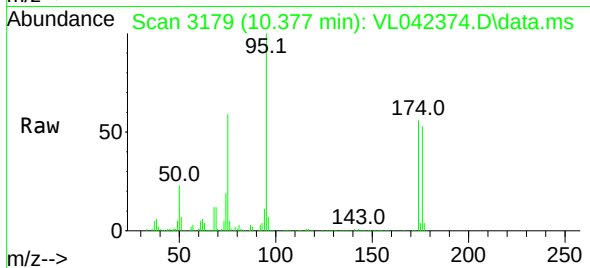
Tgt Ion:120 Resp: 2068
Ion Ratio Lower Upper
120 100
91 513.7 392.4 588.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.036 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

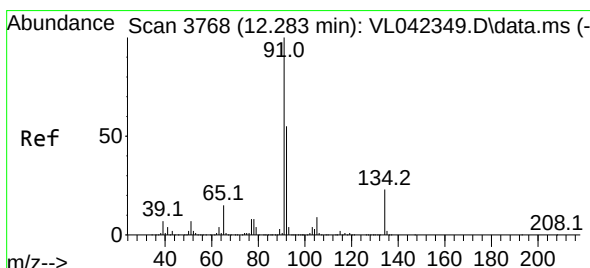
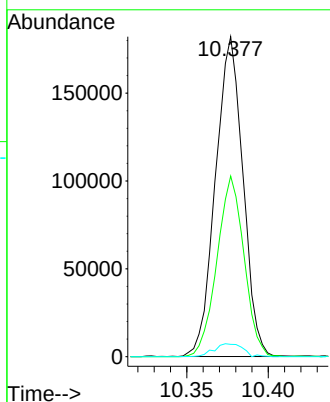
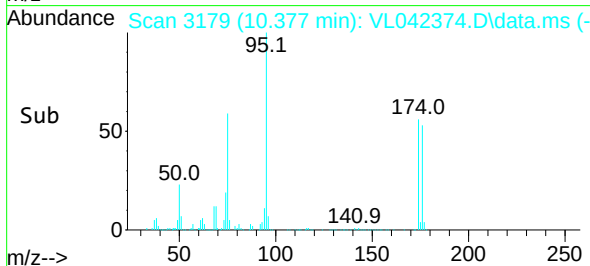
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL



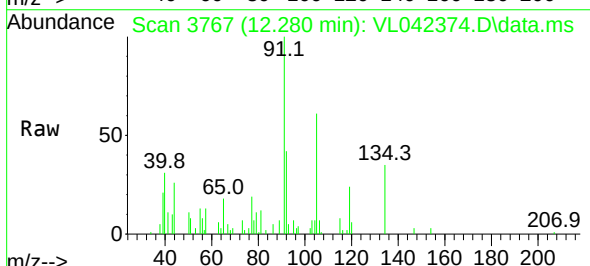
Tgt Ion: 95 Resp: 213140
Ion Ratio Lower Upper
95 100
174 55.7 48.5 72.7
175 4.3 3.7 5.5

Manual Integrations
APPROVED

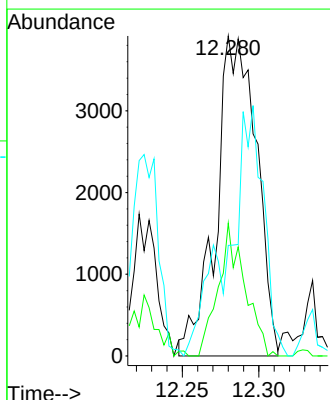
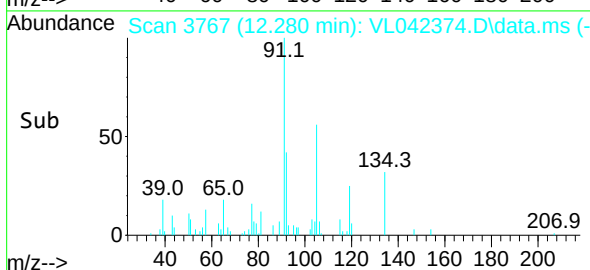
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

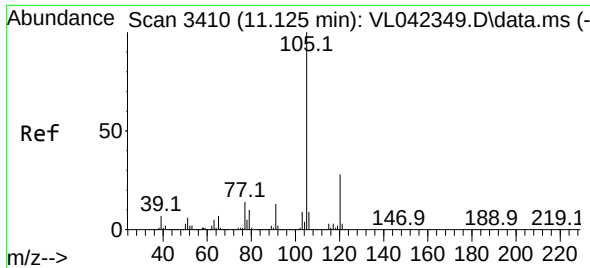


#70
n-Butylbenzene
Concen: 0.101 ppbv m
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28



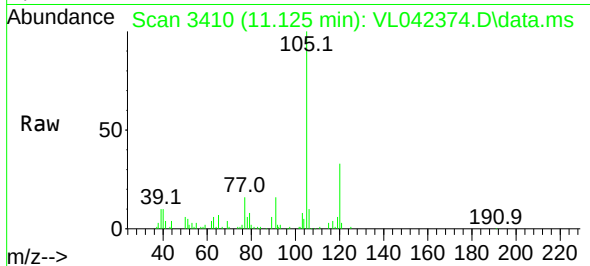
Tgt Ion: 91 Resp: 7143
Ion Ratio Lower Upper
91 100
92 27.5 44.2 66.4#
134 73.6 18.2 27.4#





#72
4-Ethyltoluene
Concen: 0.289 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

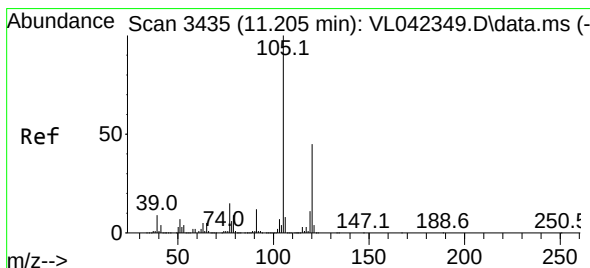
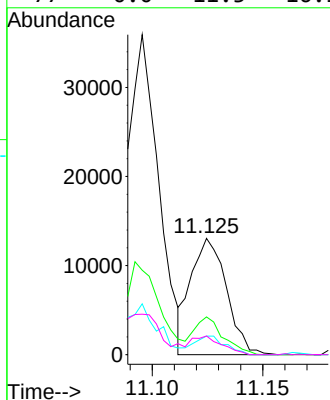
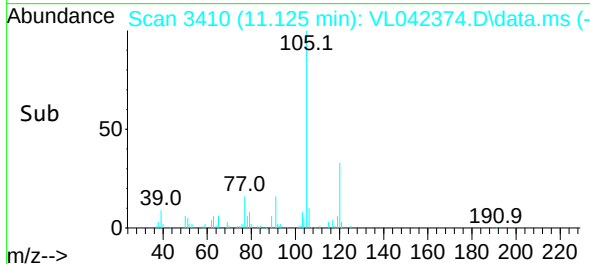
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL



Tgt Ion:105 Resp: 1467
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8
91 0.0 10.4 15.6
77 0.0 11.3 16.9#

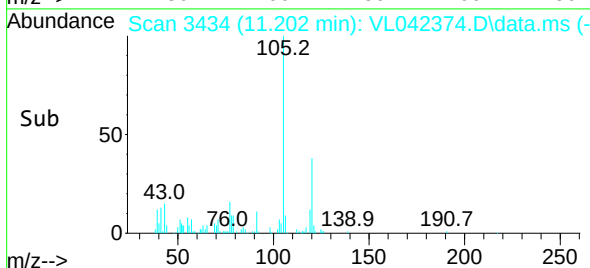
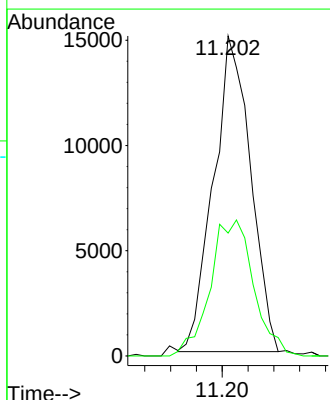
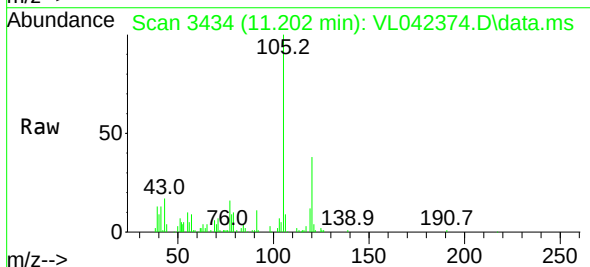
Manual Integrations
APPROVED

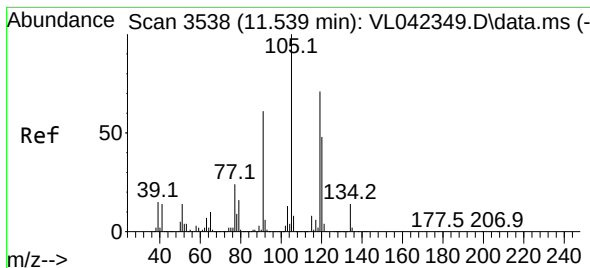
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.334 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:105 Resp: 14990
Ion Ratio Lower Upper
105 100
120 37.5 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 1.062 ppbv

RT: 11.536 min Scan# 3538

Delta R.T. -0.003 min

Lab File: VL042374.D

Acq: 18 Apr 2025 00:28

Instrument :

MSVOA_L

ClientSampleId :

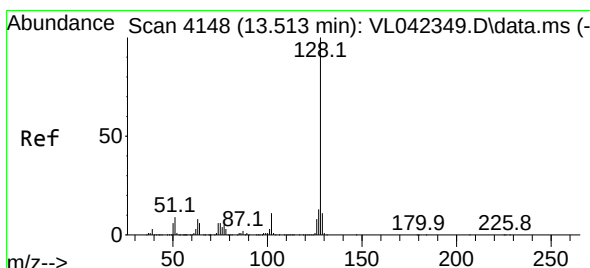
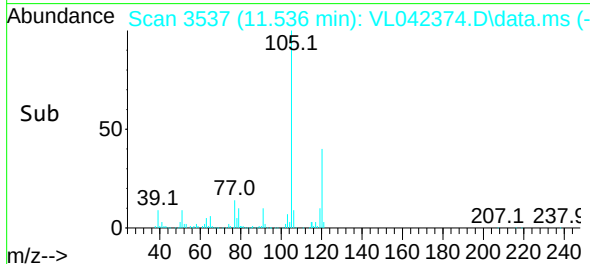
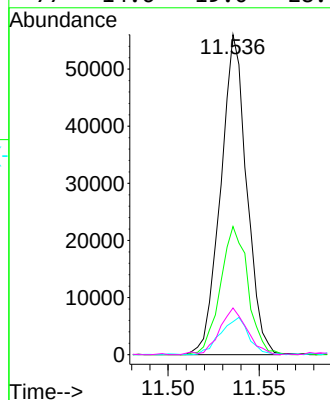
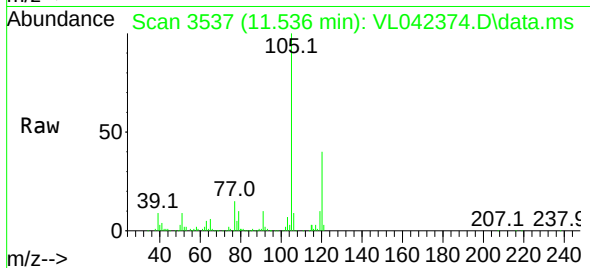
IA-B1-4-3252025DL

Tgt Ion:	105	Resp:	5562
Ion Ratio	Lower	Upper	
105	100		
120	40.1	38.1	57.1
91	10.2	48.8	73.2
77	14.6	19.0	28.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79

Naphthalene

Concen: 0.153 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042374.D

Acq: 18 Apr 2025 00:28

Tgt Ion:	128	Resp:	9572
Ion Ratio	Lower	Upper	
128	100		
127	10.6	10.6	15.8
129	7.3	8.6	12.8

