

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050922\
 Data File : VL039006.D
 Acq On : 10 May 2022 3:39
 Operator : SY/AP
 Sample : N2696-03DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV3DL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/10/2022
 Supervised By : Mahesh Dadoda 05/11/2022

Quant Time: May 11 11:20:31 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument:
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1060528	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3061270	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.05	117	2692816	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	1939521	9.09	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.90%

Target Compounds

						Ovalue
4) Chloromethane	3.13	50	11548m	0.175	ppbv	
9) Propene	3.00	41	925159	16.098	ppbv	87
10) Heptane	8.09	43	208143m	1.476	ppbv	
13) Ethanol	3.58	45	606848m	149.212	ppbv	
15) Acetone	3.83	43	816439	8.161	ppbv #	76
17) tert-Butyl alcohol	4.27	59	676405	8.797	ppbv	98
19) Isopropyl Alcohol	3.95	45	138006	2.901	ppbv #	1
26) Hexane	5.67	57	245607	2.309	ppbv #	54
27) Carbon Disulfide	4.53	76	82104	0.812	ppbv #	88
29) Chloroform	5.73	83	52993m	0.308	ppbv	
30) Cyclohexane	7.11	84	73270	0.823	ppbv #	82
34) 2-Butanone	5.22	43	362660	2.322	ppbv	99
36) Benzene	6.86	78	148709	0.568	ppbv #	93
41) Tetrahydrofuran	6.03	42	285120	2.716	ppbv	97
44) 2,2,4-Trimethylpentane	7.84	57	981258	2.135	ppbv #	91
50) 4-Methyl-2-Pentanone	8.72	43	194586	0.711	ppbv	95
52) Tetrachloroethene	11.19	164	1844251	19.700	ppbv	97
53) Toluene	9.77	91	805840	2.744	ppbv	98
58) Ethyl Benzene	12.68	91	571456	1.475	ppbv	100
59) m/p-Xylene	12.93	91	1736328	5.248	ppbv	92
60) o-Xylene	13.65	91	858214	2.756	ppbv	96
62) Isopropylbenzene	14.63	105	83680m	0.184	ppbv	
64) n-propylbenzene	15.52	120	37636m	0.342	ppbv	
72) 4-Ethyltoluene	15.80	105	144798m	0.408	ppbv	
73) 1,3,5-Trimethylbenzene	15.96	105	114768	0.359	ppbv	93
74) 1,2,4-Trimethylbenzene	16.73	105	210338	0.601	ppbv #	68

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

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Manual Integrations
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Quant Time: May 11 11:20:31 2022

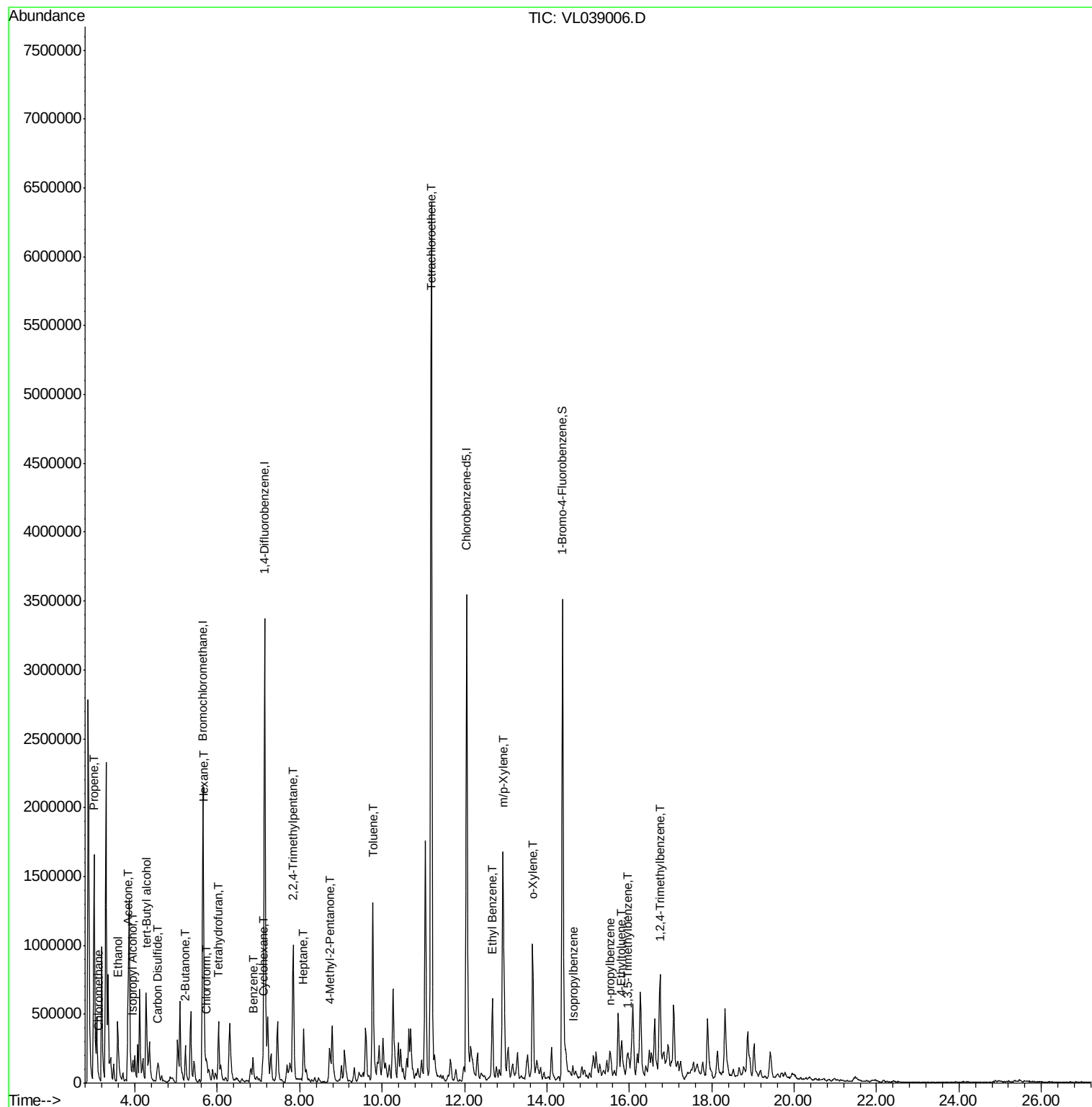
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522

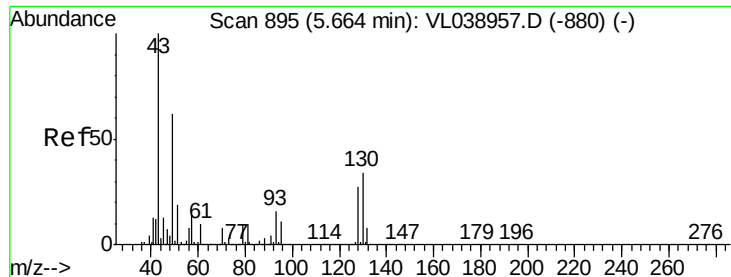
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Thu May 05 10:12:15 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 05/10/2022
Supervised By :Mahesh Dadoda 05/11/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 10 May 2022 3:39 SV3DL

Tot Ion:

Ion Ratio

49 100

128 53.

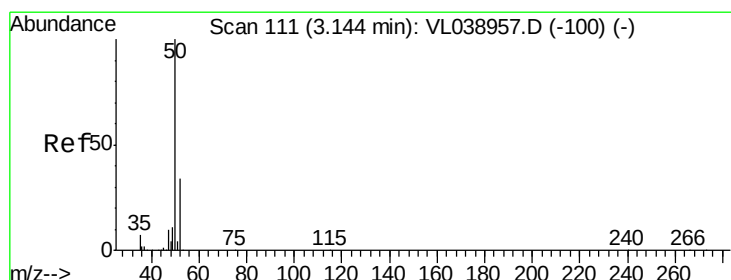
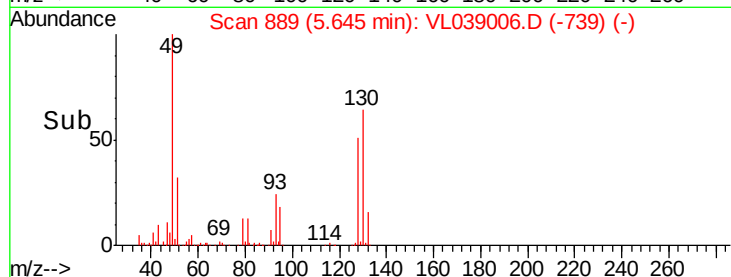
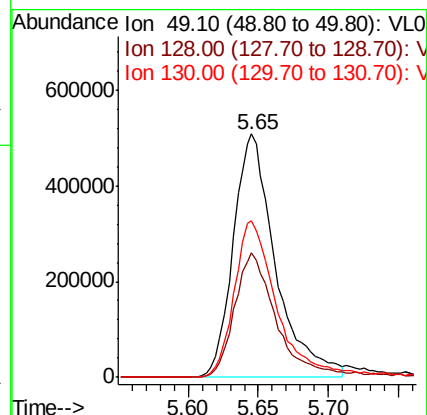
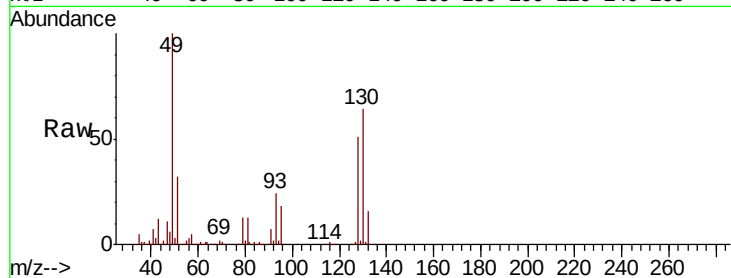
130 67.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/10/2022

Supervised By :Mahesh Dadoda 05/11/2022



#4

Chloromethane

Concen: 0.175 ppbv m

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL039006.D

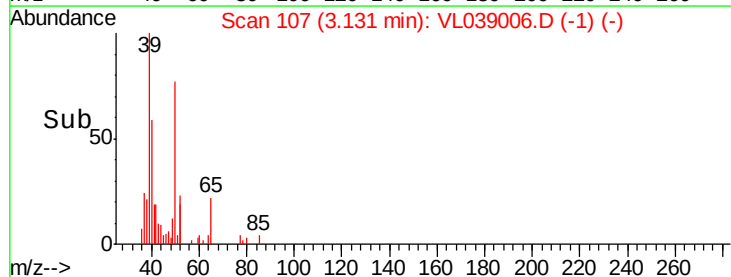
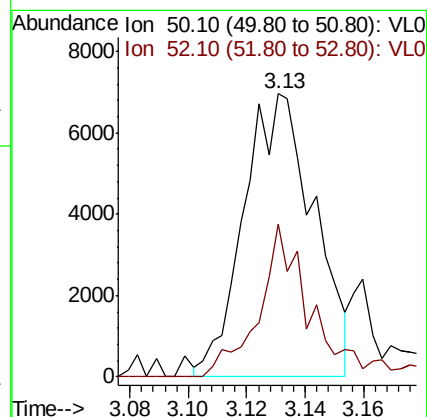
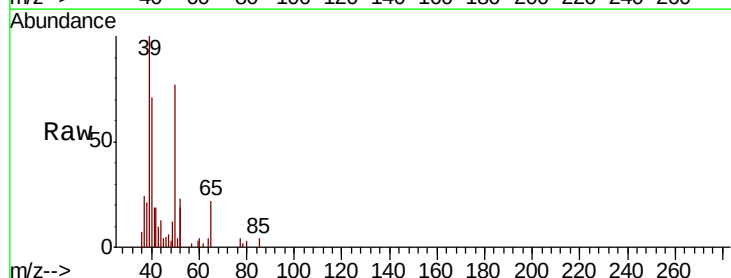
Acq: 10 May 2022 3:39

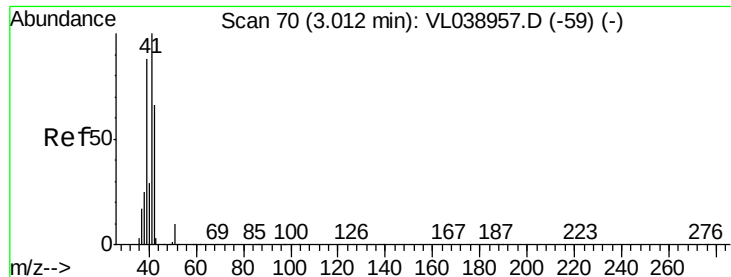
Tgt Ion: 50 Resp: 11548

Ion Ratio Lower Upper

50 100

52 29.4 27.3 40.9





#9

Propene

Concen: 16.098 ppbv

RT: 3.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 May 2022 3:39

Tot Ion:

Ion Ratio

41 100

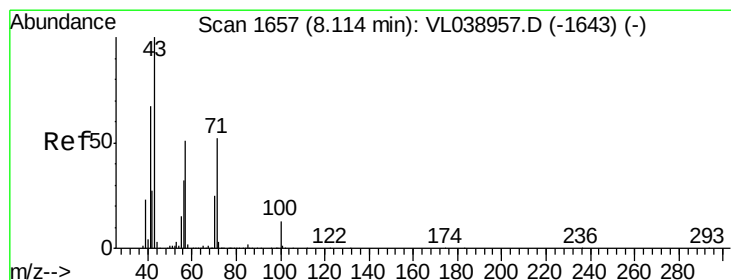
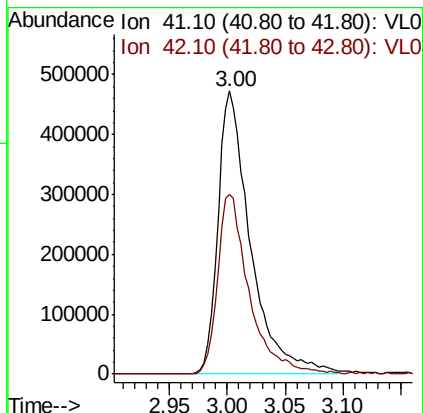
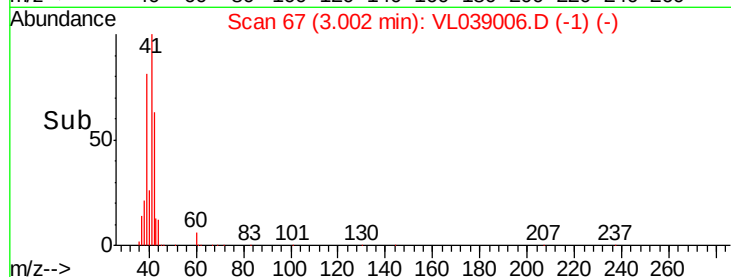
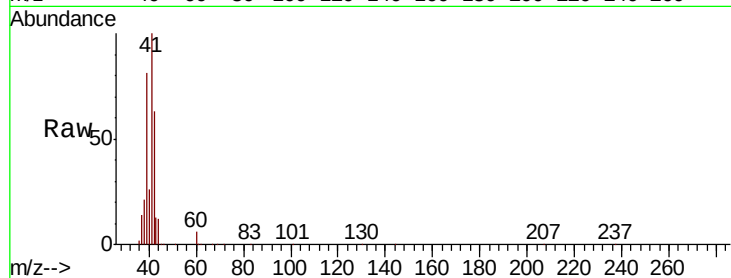
42 61.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/10/2022

Supervised By :Mahesh Dadoda 05/11/2022



#10

Heptane

Concen: 1.476 ppbv m

RT: 8.09 min Scan# 1650

Delta R.T. -0.02 min

Lab File: VL039006.D

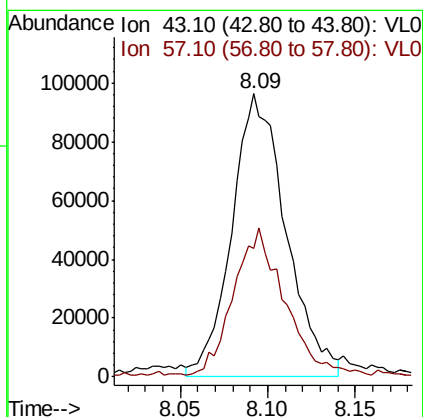
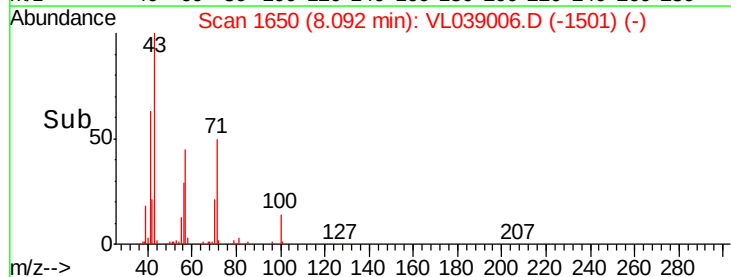
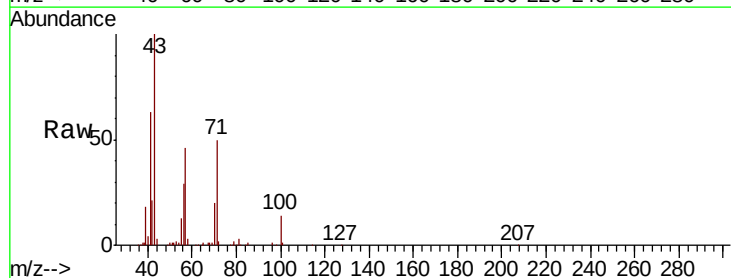
Acq: 10 May 2022 3:39

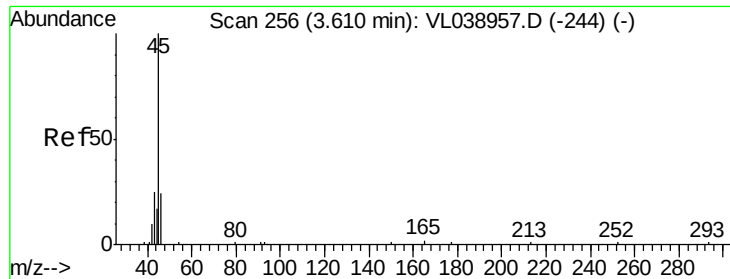
Tgt Ion: 43 Resp: 208143

Ion Ratio Lower Upper

43 100

57 50.2 40.5 60.7



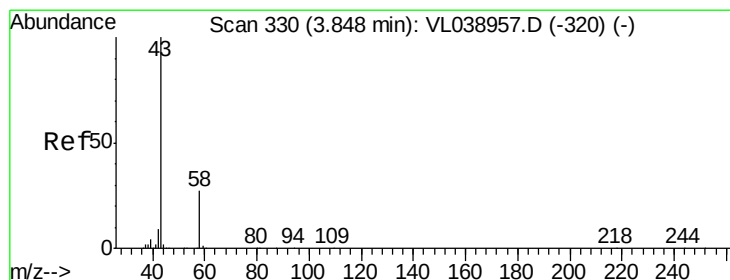
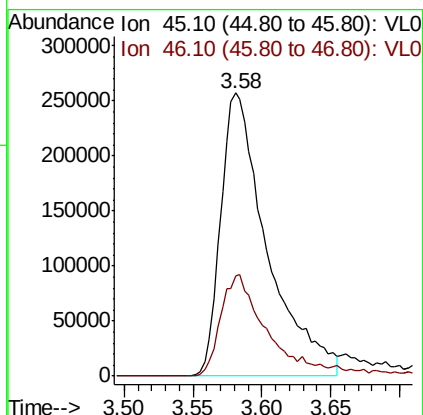
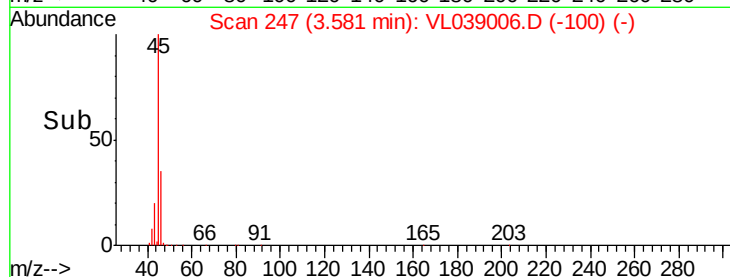
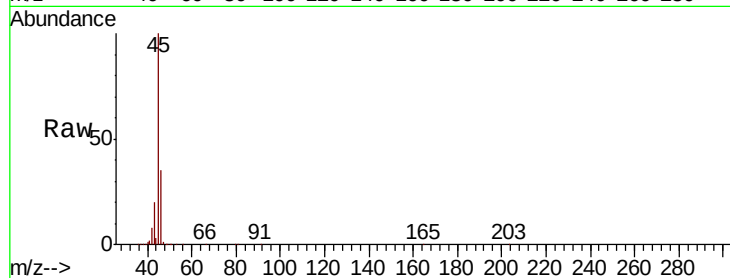


#13
Ethanol
Concen: 149.212 ppbv m
RT: 3.58
Instrument : MSVOA_L
Delta R.T. :
Lab File: ClientSampleId :
SV3DL
Acq: 10 May 2022 3:39

Tot Ion:
Ion Ratio
45 100
46 36.

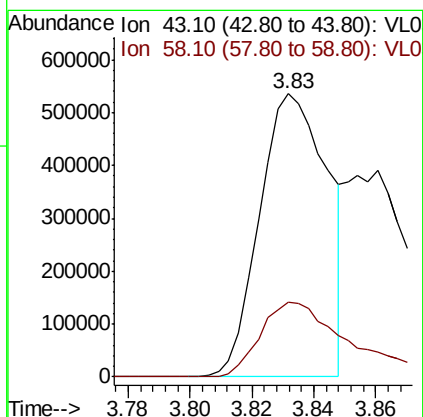
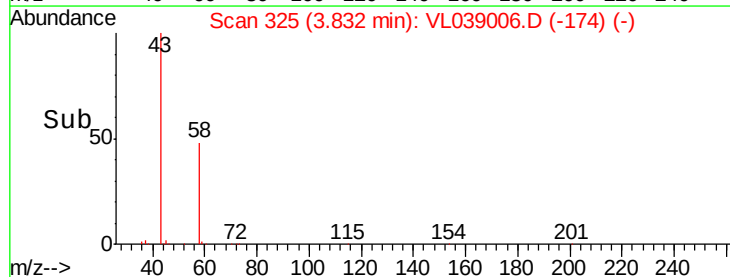
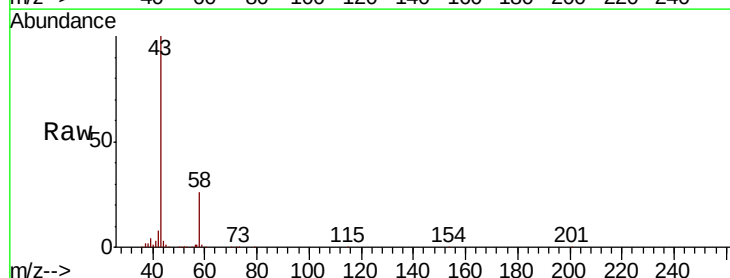
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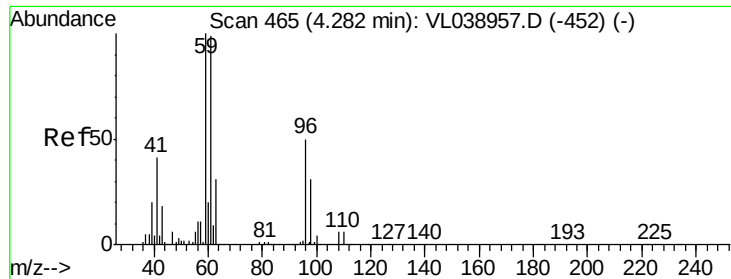
Reviewed By :Semsettin Yesilyurt 05/10/2022
Supervised By :Mahesh Dadoda 05/11/2022



#15
Acetone
Concen: 8.161 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.02 min
Lab File: VL039006.D
Acq: 10 May 2022 3:39

Tgt Ion: 43 Resp: 816439
Ion Ratio Lower Upper
43 100
58 38.8 21.3 31.9#





#17

tert-Butyl alcohol

Concen: 8.797 ppbv

RT: 4.27

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 May 2022 3:39

Tot Ion:

Ion Ratio

59 100

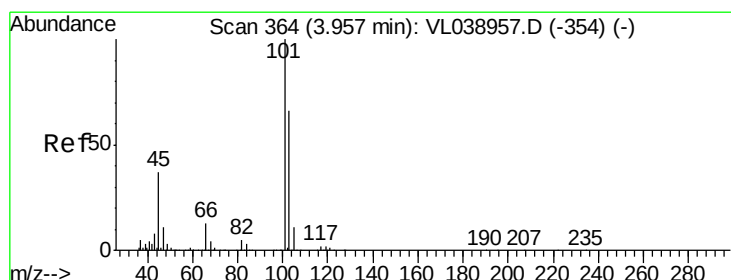
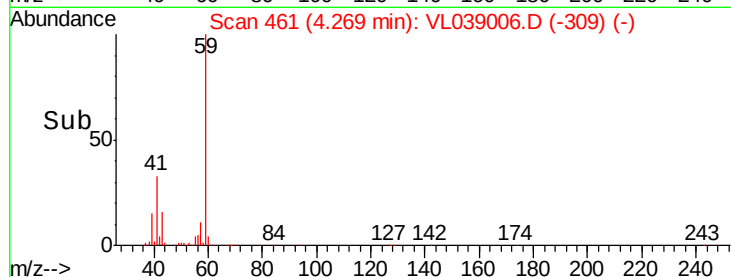
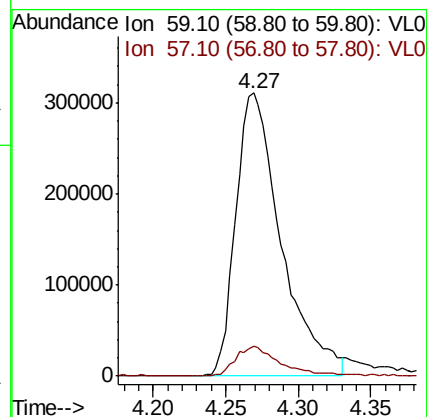
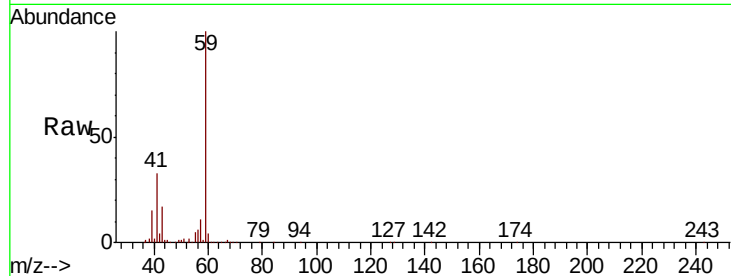
57 10.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/10/2022

Supervised By :Mahesh Dadoda 05/11/2022



#19

Isopropyl Alcohol

Concen: 2.901 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL039006.D

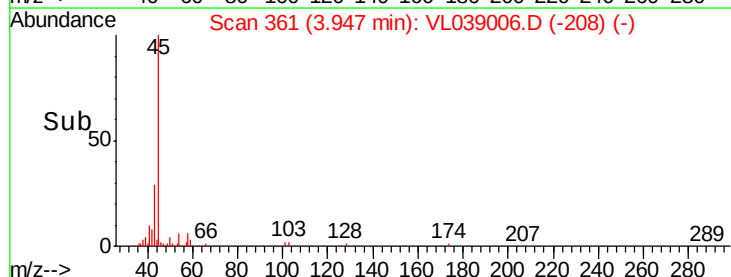
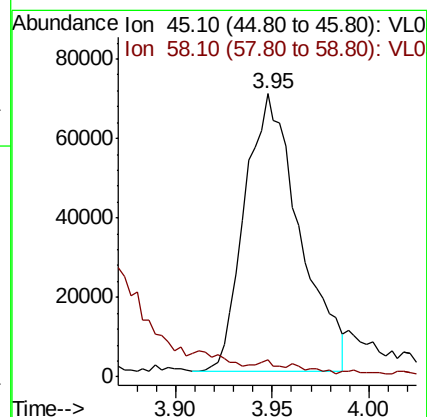
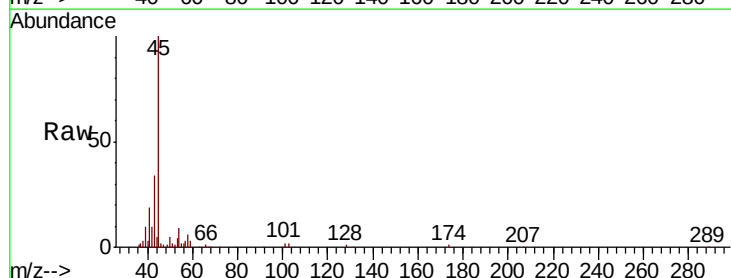
Acq: 10 May 2022 3:39

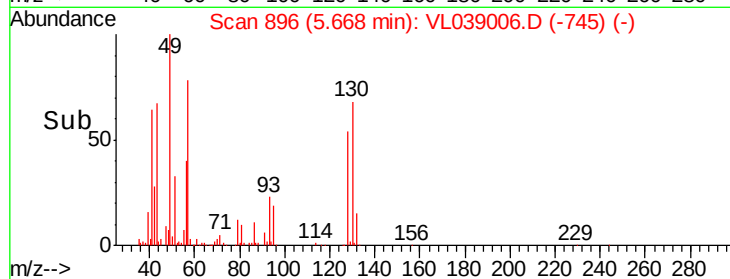
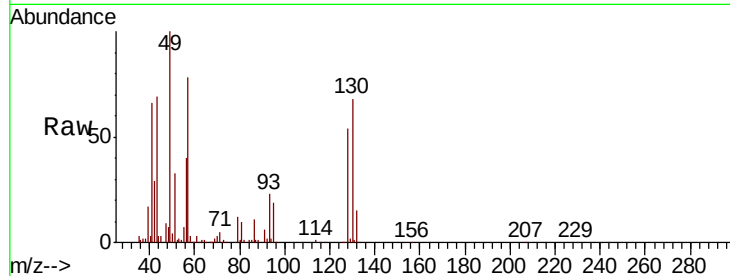
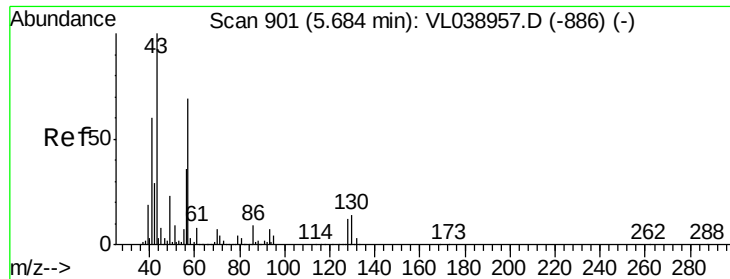
Tgt Ion: 45 Resp: 138006

Ion Ratio Lower Upper

45 100

58 231.3 1.4 2.2#



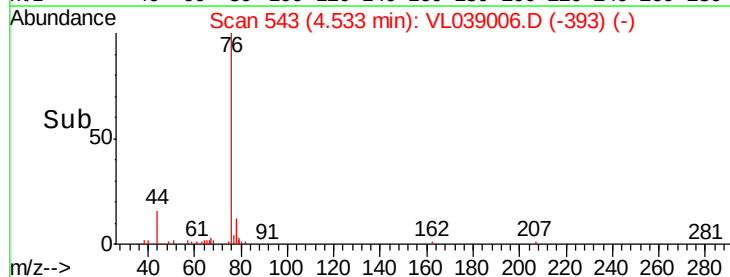
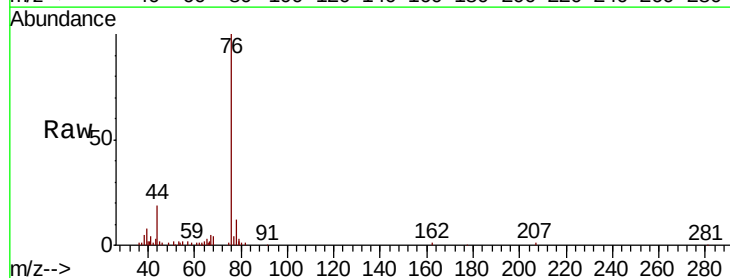
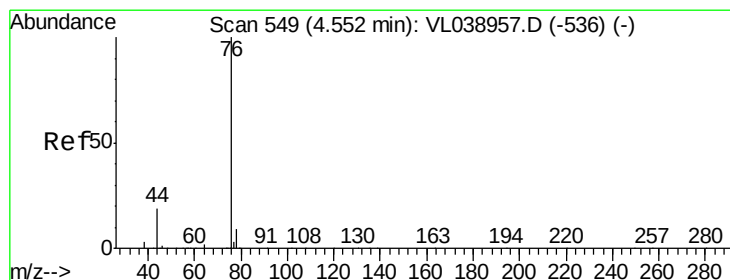
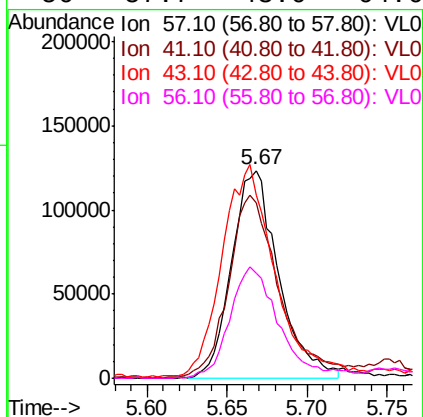


#26
Hexane
Concen: 2.309 ppbv
RT: 5.67
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 10 May 2022 3:39

Tot Ion: 57.10 (56.80 to 57.80): VL0
Ion Ratio: 57 100
41 97.
43 116.
56 57.7 43.0 64.6

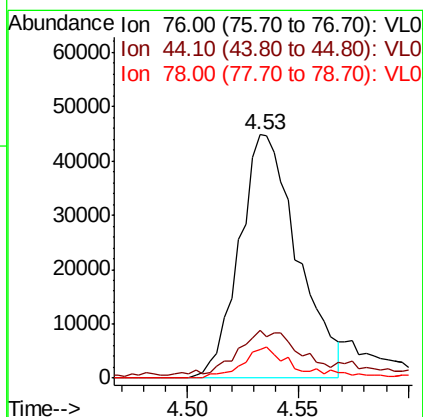
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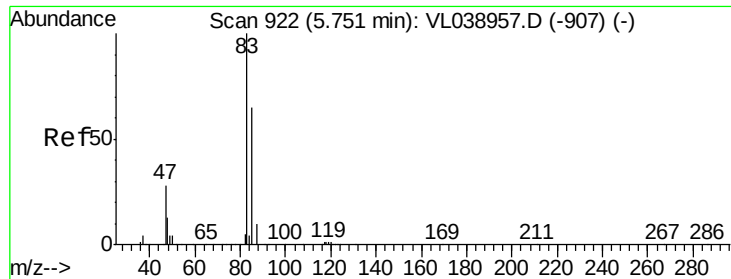
Reviewed By :Semsettin Yesilyurt 05/10/2022
Supervised By :Mahesh Dadoda 05/11/2022



#27
Carbon Disulfide
Concen: 0.812 ppbv
RT: 4.53 min Scan# 543
Delta R.T.: -0.02 min
Lab File: VL039006.D
Acq: 10 May 2022 3:39

Tgt Ion: 76 Resp: 82104
Ion Ratio Lower Upper
76 100
44 25.9 15.3 22.9#
78 12.5 8.2 12.2#



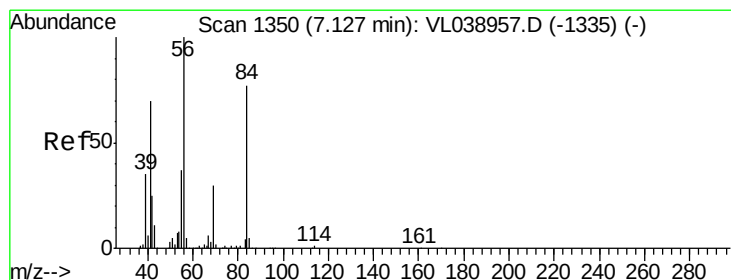
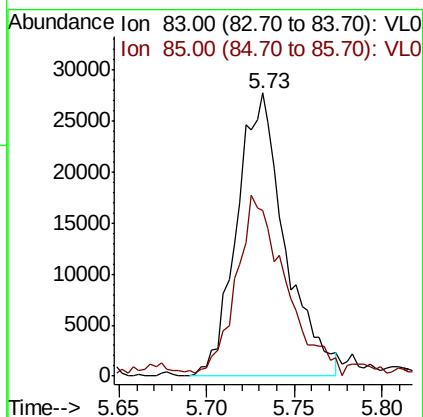
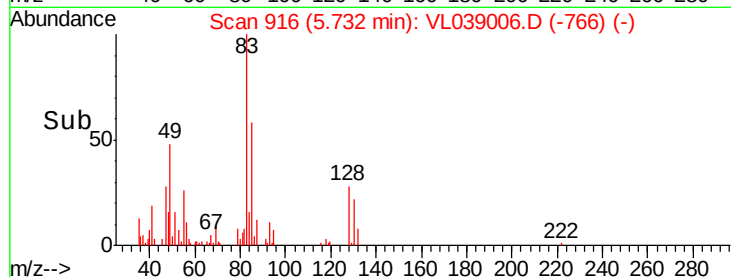
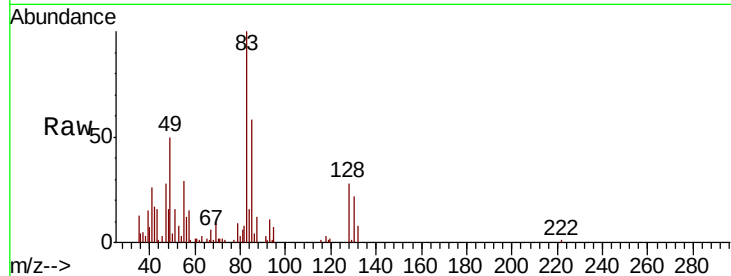


#29
Chloroform
Concen: 0.308 ppbv m
RT: 5.73
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
SV3DL
Acq: 10 May 2022 3:39

Tot Ion:
Ion Ratio
83 100
85 58.

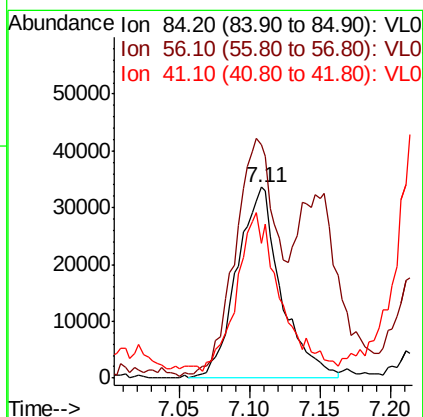
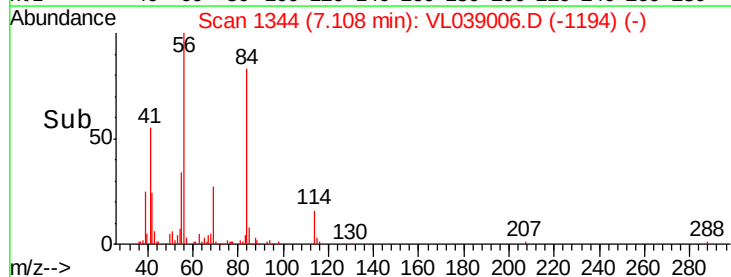
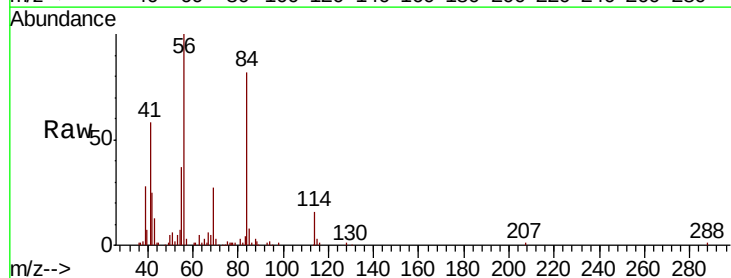
Manual Integrations
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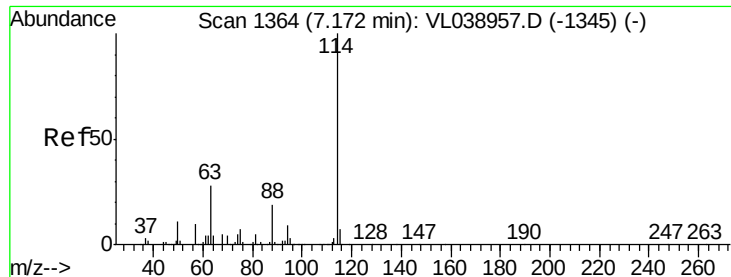
Reviewed By :Semsettin Yesilyurt 05/10/2022
Supervised By :Mahesh Dadoda 05/11/2022



#30
Cyclohexane
Concen: 0.823 ppbv
RT: 7.11 min Scan# 1344
Delta R.T. -0.02 min
Lab File: VL039006.D
Acq: 10 May 2022 3:39

Tgt Ion: 84 Resp: 73270
Ion Ratio Lower Upper
84 100
56 112.9 115.3 172.9#
41 84.0 72.0 108.0



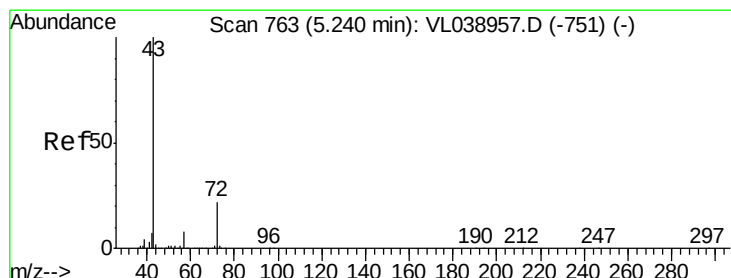
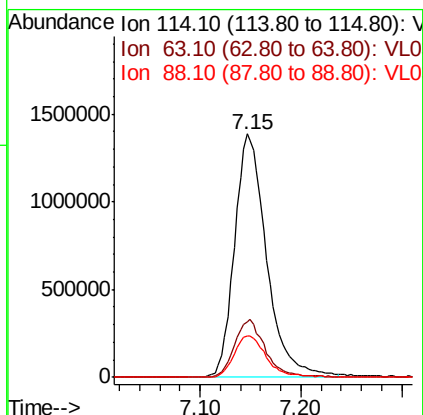
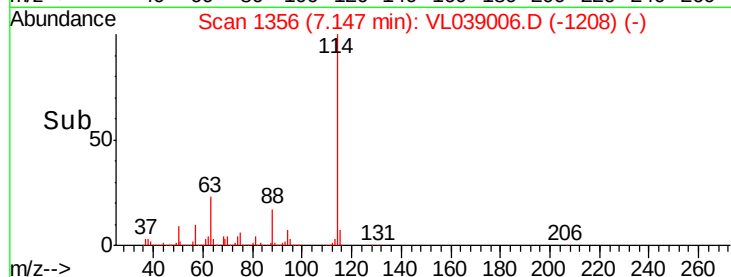
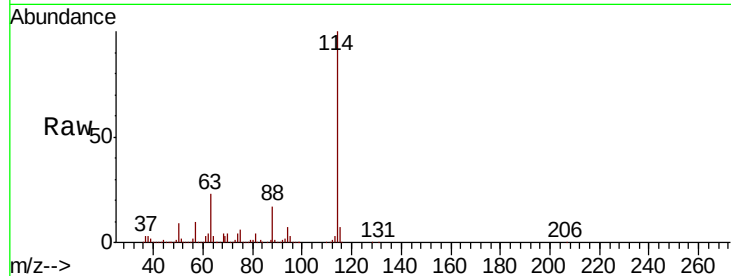


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 SV3DL
 Acq: 10 May 2022 3:39

Tot Ion:1
 Ion Rati
 114 100
 63 23.
 88 17.

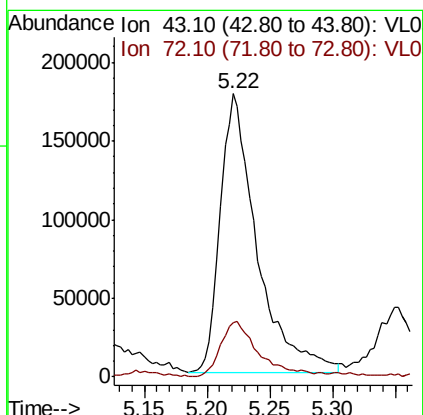
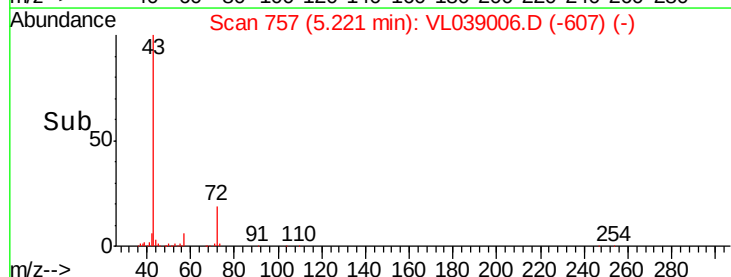
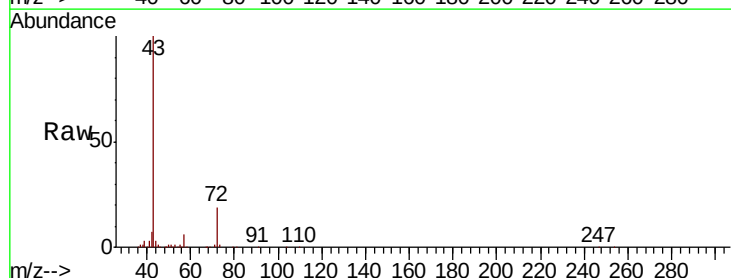
Manual Integrations
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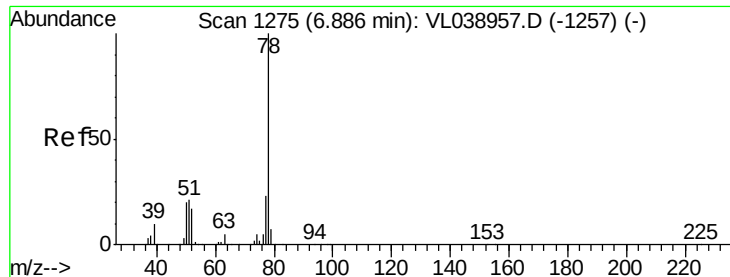
Reviewed By :Semsettin Yesilyurt 05/10/2022
 Supervised By :Mahesh Dadoda 05/11/2022



#34
 2-Butanone
 Concen: 2.322 ppbv
 RT: 5.22 min Scan# 757
 Delta R.T. -0.02 min
 Lab File: VL039006.D
 Acq: 10 May 2022 3:39

Tgt Ion: 43 Resp: 362660
 Ion Ratio Lower Upper
 43 100
 72 21.8 17.8 26.6





#36

Benzene

Concen: 0.568 ppbv

RT: 6.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 10 May 2022 3:39 SV3DL

Tot Ion:

Ion Ratio

78 100

77 24.

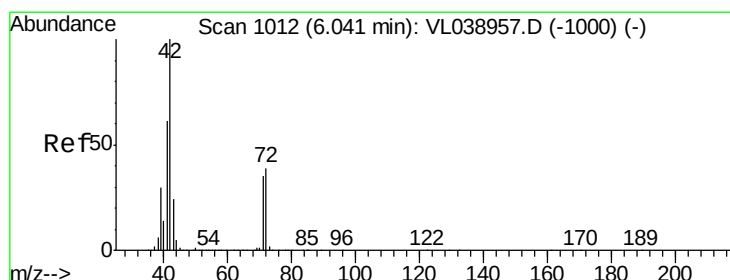
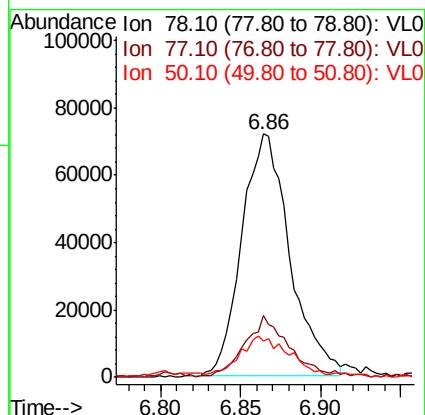
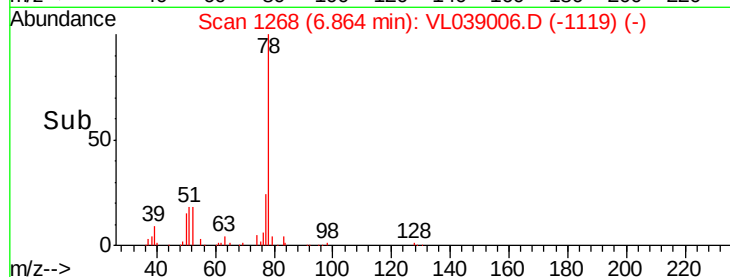
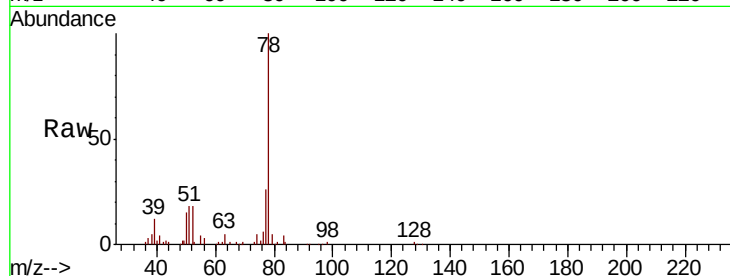
50 13.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/10/2022

Supervised By :Mahesh Dadoda 05/11/2022



#41

Tetrahydrofuran

Concen: 2.716 ppbv

RT: 6.03 min Scan# 1008

Delta R.T. -0.01 min

Lab File: VL039006.D

Acq: 10 May 2022 3:39

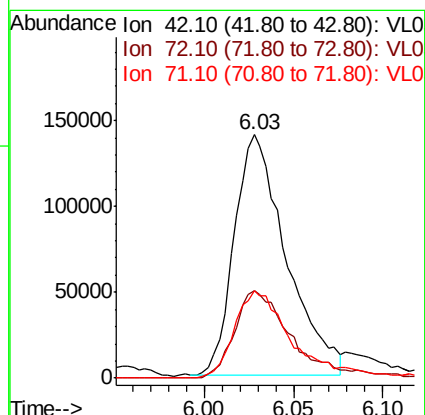
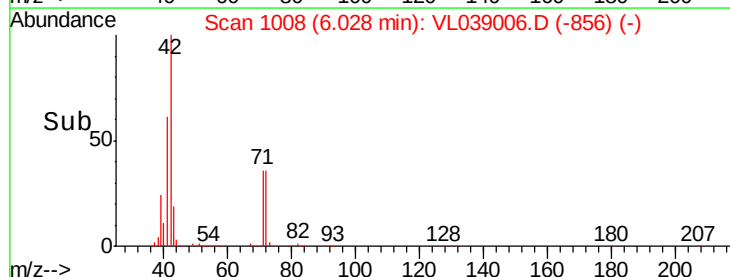
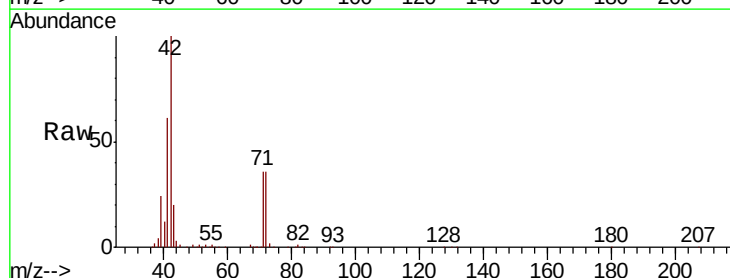
Tgt Ion: 42 Resp: 285120

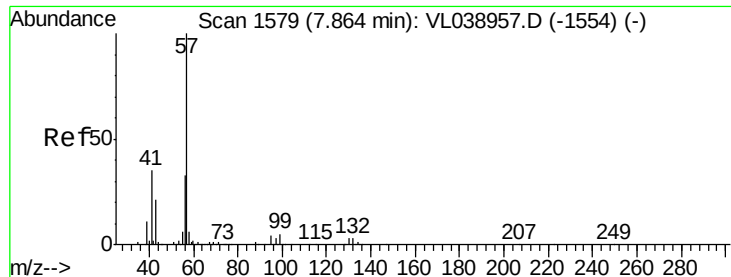
Ion Ratio Lower Upper

42 100

72 40.3 31.8 47.6

71 41.2 30.6 45.8



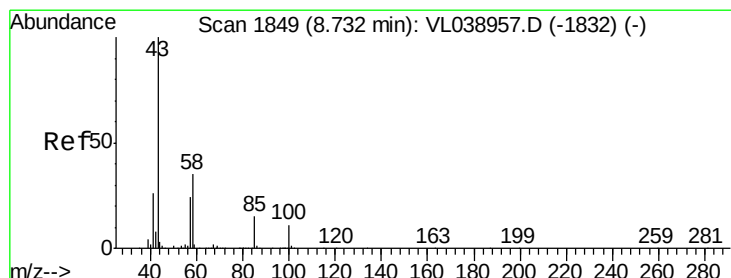
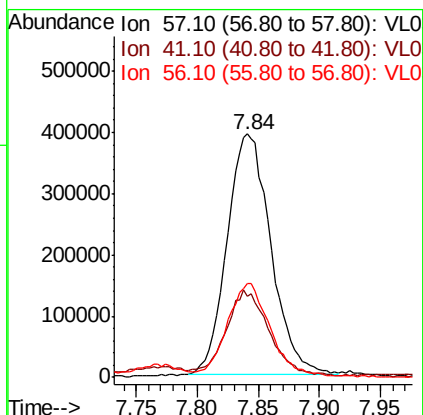
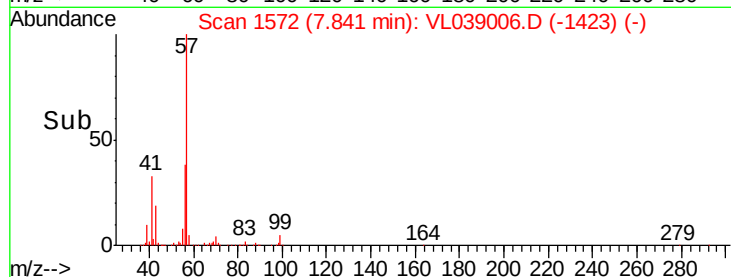
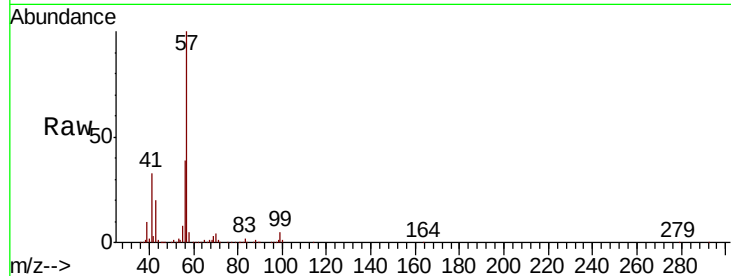


#44
 2,2,4-Trimethylpentane
 Concen: 2.135 ppbv
 RT: 7.84
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV3DL
 Acq: 10 May 2022 3:39

Tot Ion:
 Ion Ratio
 57 100
 41 35.
 56 38.

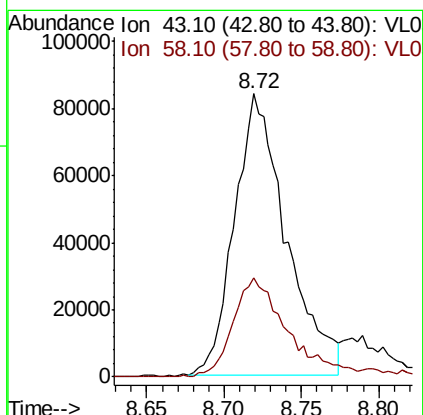
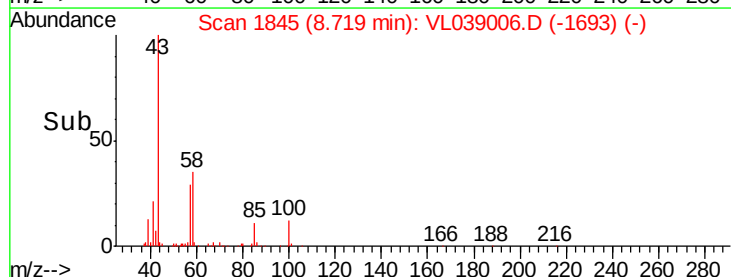
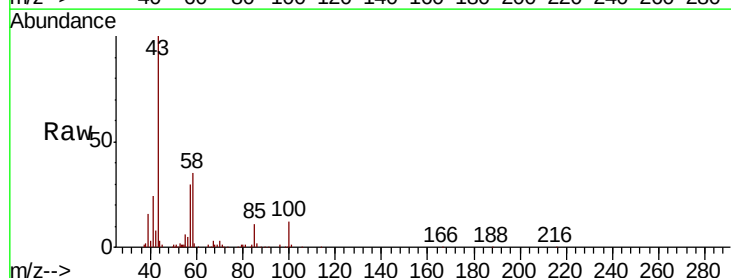
Manual Integrations
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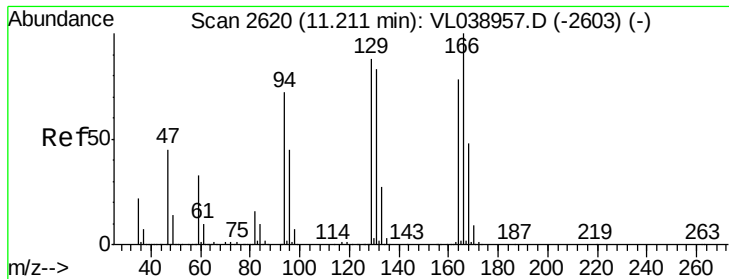
Reviewed By :Semsettin Yesilyurt 05/10/2022
 Supervised By :Mahesh Dadoda 05/11/2022



#50
 4-Methyl-2-Pentanone
 Concen: 0.711 ppbv
 RT: 8.72 min Scan# 1845
 Delta R.T. -0.01 min
 Lab File: VL039006.D
 Acq: 10 May 2022 3:39

Tgt Ion: 43 Resp: 194586
 Ion Ratio Lower Upper
 43 100
 58 38.3 28.4 42.6



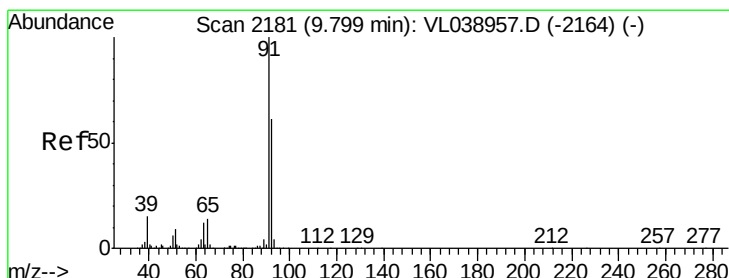
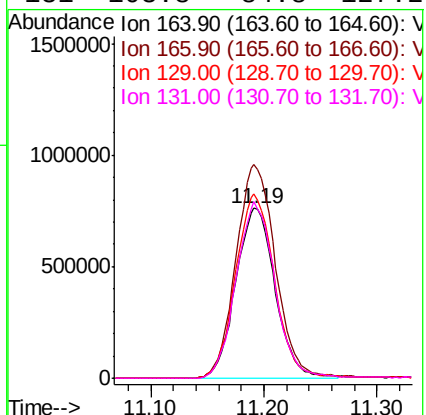
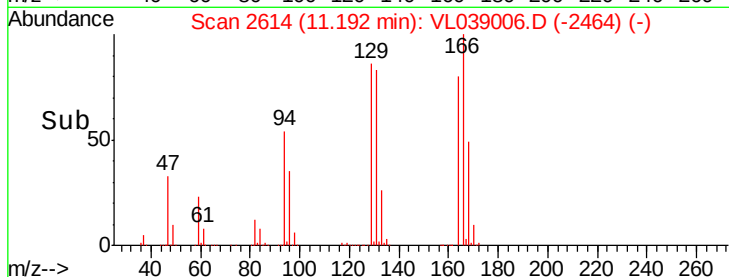
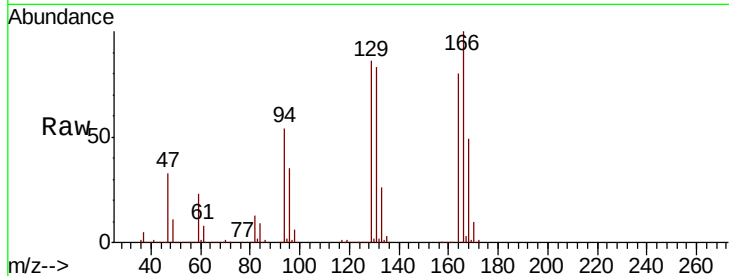


#52
Tetrachloroethene
Concen: 19.700 ppbv
RT: 11.19
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
SV3DL
Acq: 10 May 2022 3:39

Tot Ion: 1
Ion Ratio
164 100
166 125.
129 108.
131 103.8 84.8 127.2

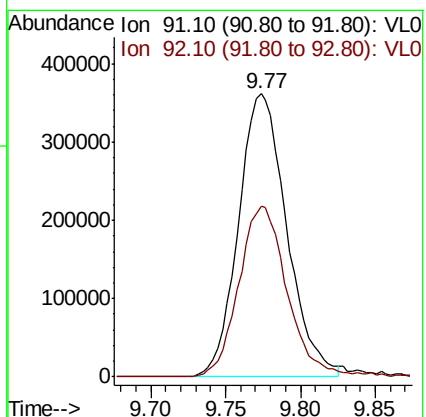
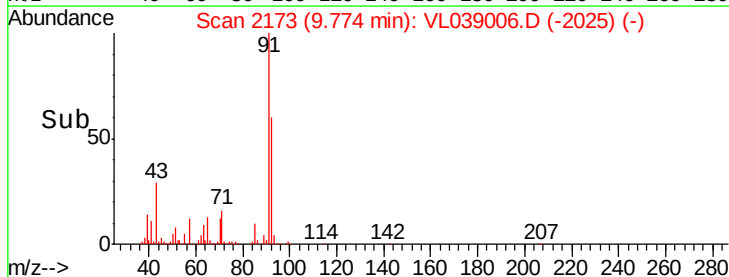
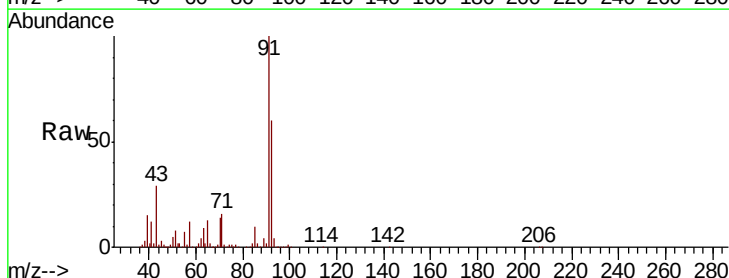
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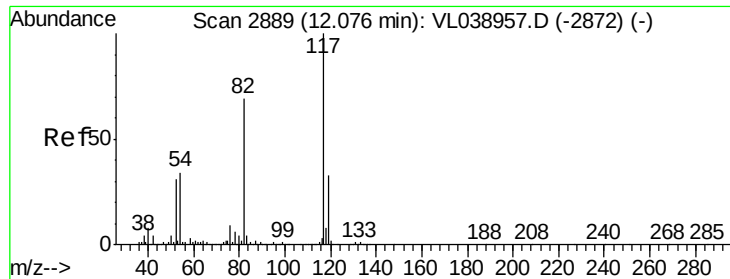
Reviewed By : Semsettin Yesilyurt 05/10/2022
Supervised By : Mahesh Dadoda 05/11/2022



#53
Toluene
Concen: 2.744 ppbv
RT: 9.77 min Scan# 2173
Delta R.T.: -0.03 min
Lab File: VL039006.D
Acq: 10 May 2022 3:39

Tgt Ion: 91 Resp: 805840
Ion Ratio Lower Upper
91 100
92 61.5 48.2 72.2



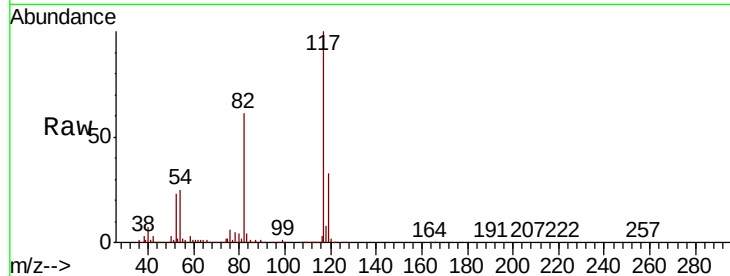


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV3DL
Acq: 10 May 2022 3:39

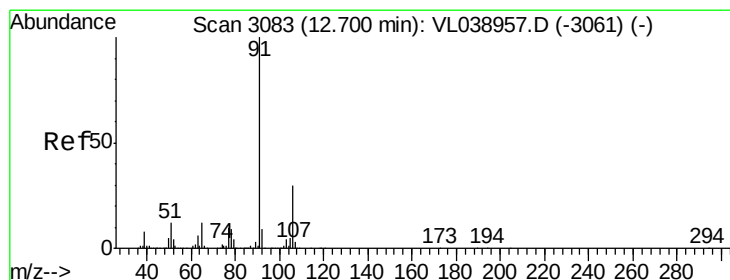
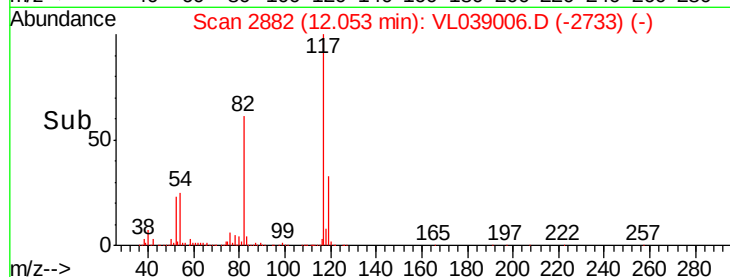
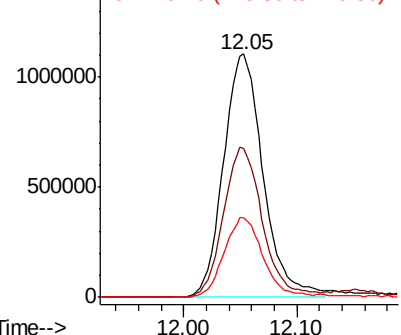
Tot Ion: 1
Ion Ratio
117 100
82 61.
119 34.

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Reviewed By : Semsettin Yesilyurt 05/10/2022
Supervised By : Mahesh Dadoda 05/11/2022

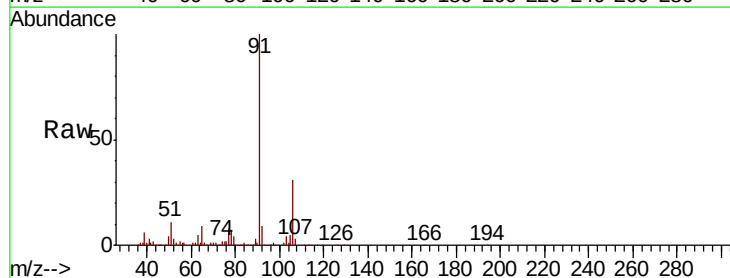


Abundance Ion 117.10 (116.80 to 117.80): V
1500000
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

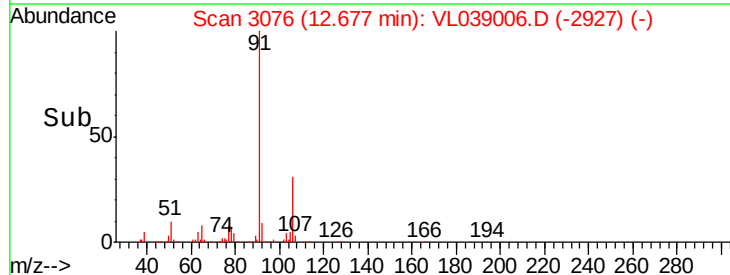
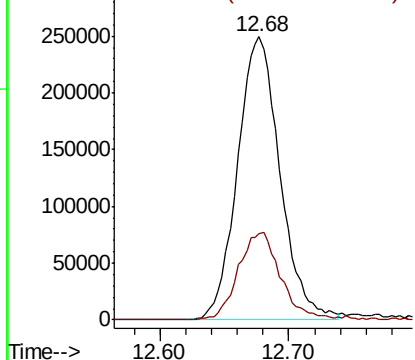


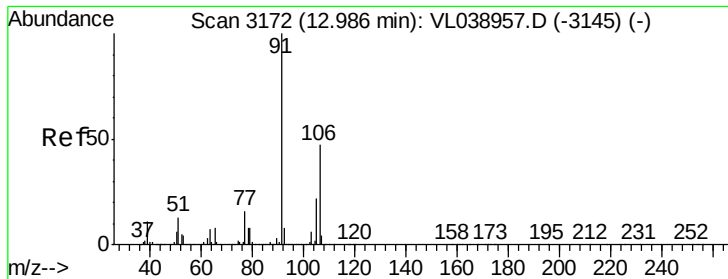
#58
Ethyl Benzene
Concen: 1.475 ppbv
RT: 12.68 min Scan# 3076
Delta R.T. -0.02 min
Lab File: VL039006.D
Acq: 10 May 2022 3:39

Tgt Ion: 91 Resp: 571456
Ion Ratio Lower Upper
91 100
106 30.5 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
250000
Ion 106.10 (105.80 to 106.80): V



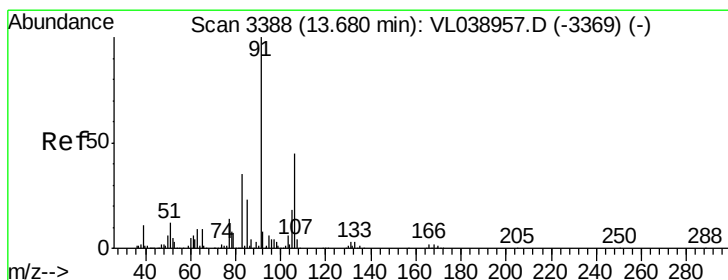
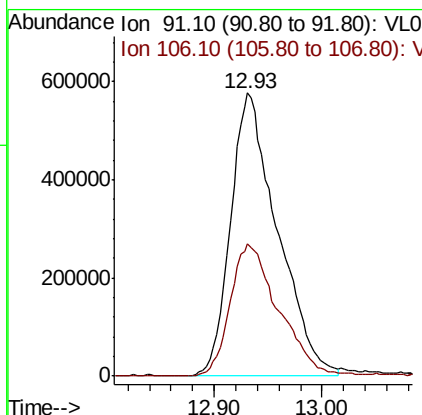
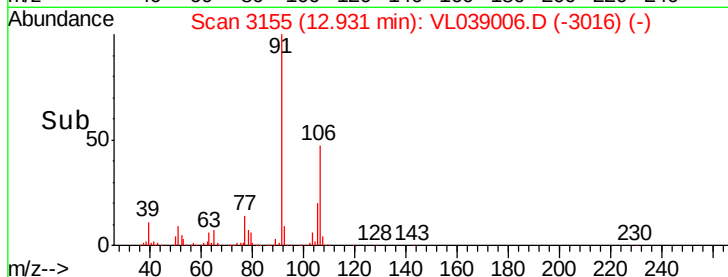
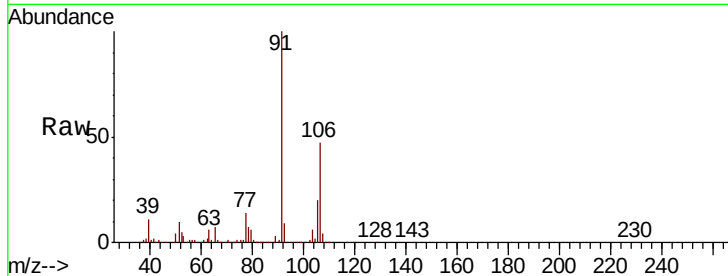


#59
m/p-Xylene
Concen: 5.248 ppbv
RT: 12.93 min
Delta R.T.: 0.03 min
Lab File: VL039006.D
Acq: 10 May 2022 3:39

Manual Integrations
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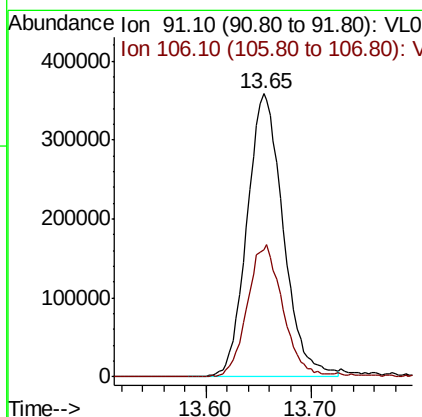
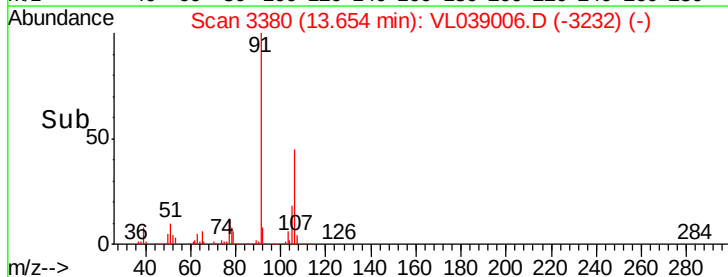
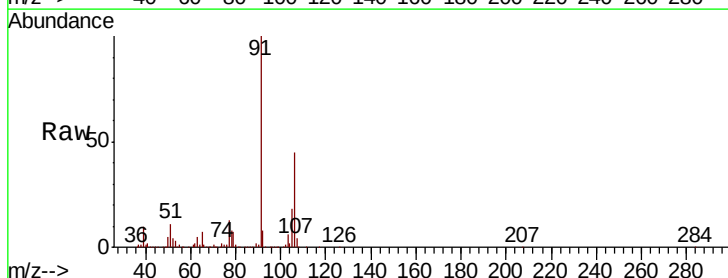
Reviewed By :Semsettin Yesilyurt 05/10/2022
Supervised By :Mahesh Dadoda 05/11/2022

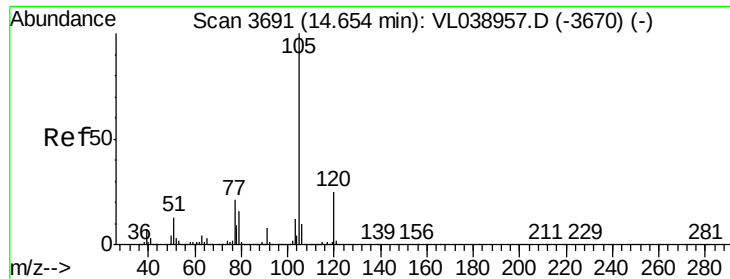
Tot Ion:
Ion Ratio
91 100
106 48.



#60
o-Xylene
Concen: 2.756 ppbv
RT: 13.65 min Scan# 3380
Delta R.T.: -0.03 min
Lab File: VL039006.D
Acq: 10 May 2022 3:39

Tgt Ion: 91 Resp: 858214
Ion Ratio Lower Upper
91 100
106 46.8 22.2 66.6





#62

Isopropylbenzene

Concen: 0.184 ppbv m

RT: 14.63

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

SV3DL

Acq: 10 May 2022 3:39

Tot Ion:1

Ion Rati

105 100

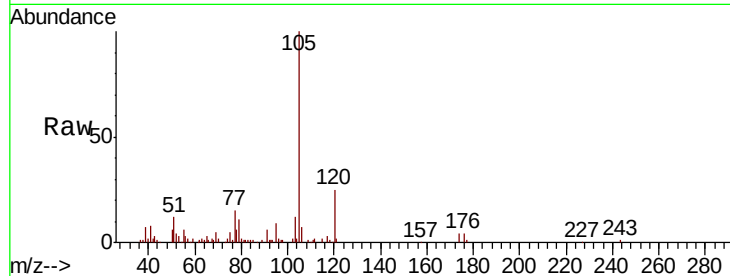
120 26.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/10/2022

Supervised By :Mahesh Dadoda 05/11/2022



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.63

40000

30000

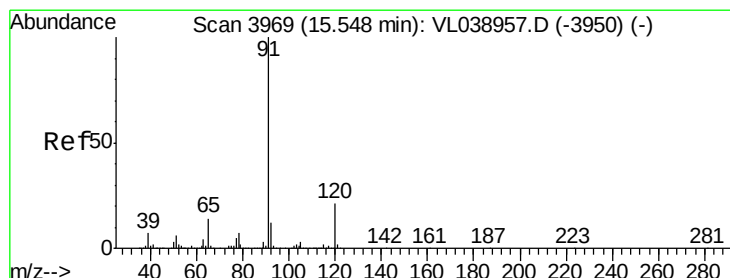
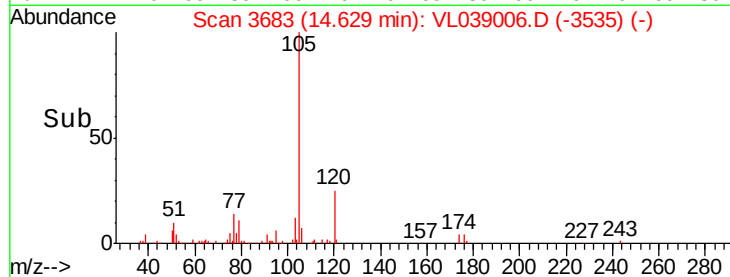
20000

10000

0

14.55 14.60 14.65 14.70

Time-->



#64

n-propylbenzene

Concen: 0.342 ppbv m

RT: 15.52 min Scan# 3960

Delta R.T. -0.03 min

Lab File: VL039006.D

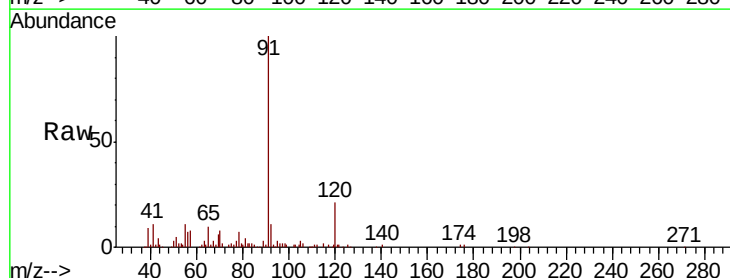
Acq: 10 May 2022 3:39

Tgt Ion:120 Resp: 37636

Ion Ratio Lower Upper

120 100

91 0.0 400.6 601.0#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

80000

60000

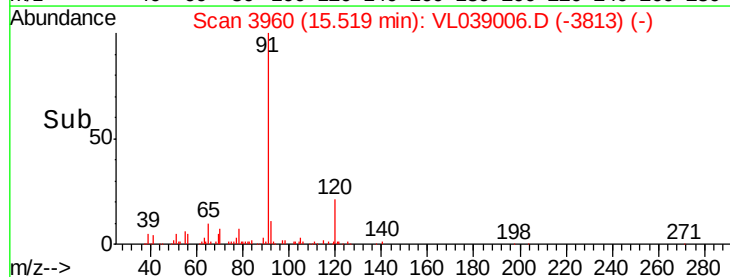
40000

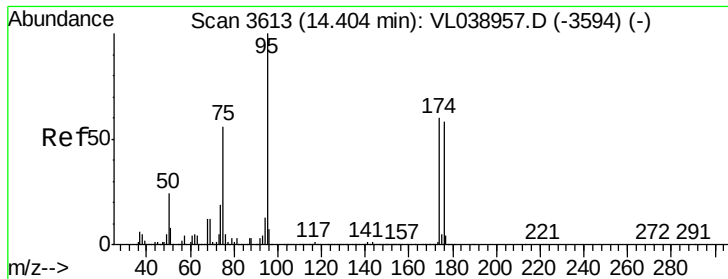
20000

0

15.50 15.52 15.54 15.56 15.58 15.60

Time-->



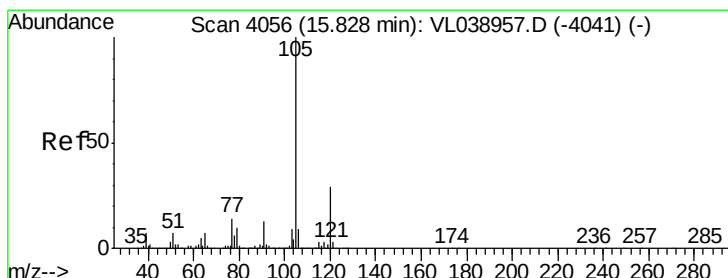
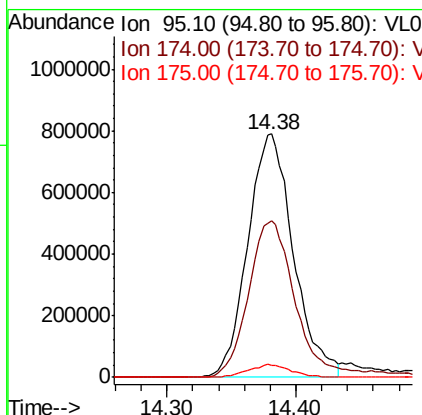
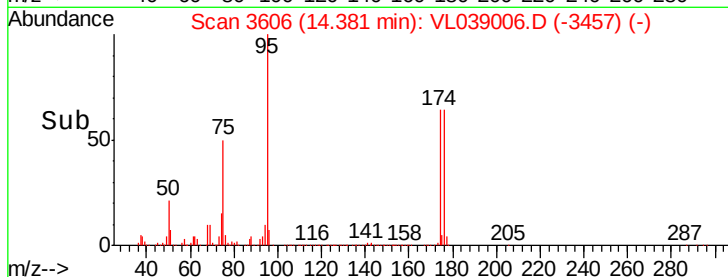
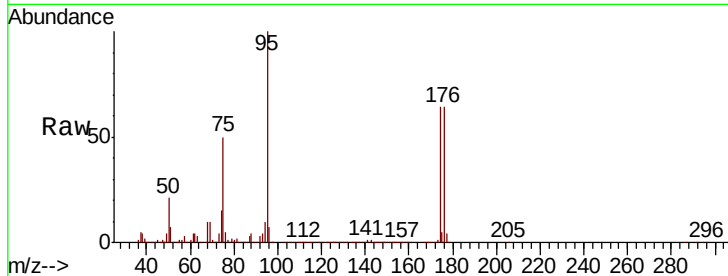


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.095 ppbv
 RT: 14.38 min
 Delta R.T.: 0.03 min
 Lab File: VL039006.D
 Acq: 10 May 2022 3:39

Manual Integrations
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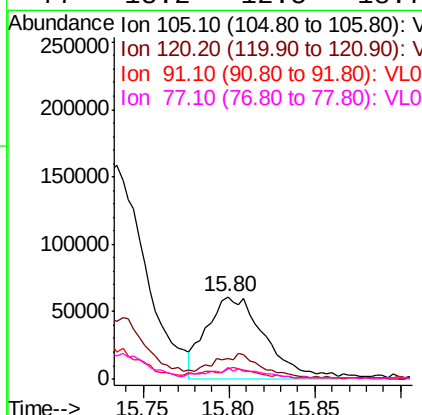
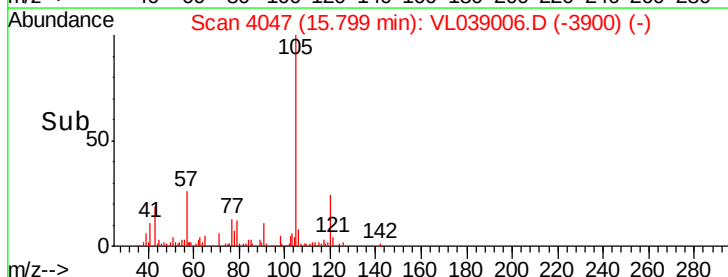
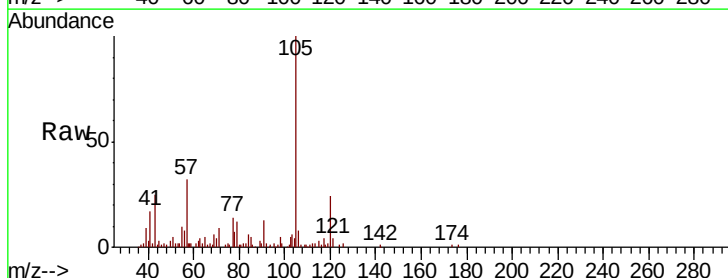
Reviewed By : Semsettin Yesilyurt 05/10/2022
 Supervised By : Mahesh Dadoda 05/11/2022

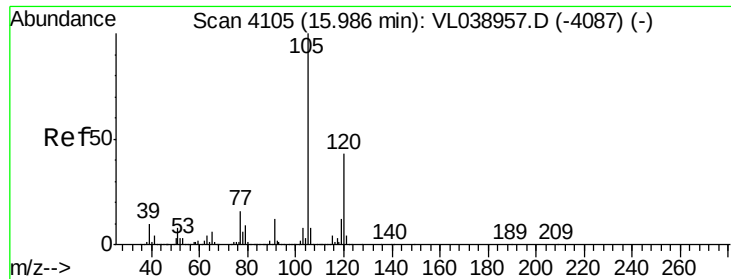
Tot Ion:
 Ion Ratio
 95 100
 174 69.1
 175 5.1



#72
 4-Ethyltoluene
 Concen: 0.408 ppbv m
 RT: 15.80 min Scan# 4047
 Delta R.T.: -0.03 min
 Lab File: VL039006.D
 Acq: 10 May 2022 3:39

Tgt Ion: 105 Resp: 144798
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.4 35.0#
 91 0.0 10.6 16.0#
 77 13.2 12.5 18.7





#73

1,3,5-Trimethylbenzene

Concen: 0.359 ppbv

RT: 15.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 May 2022 3:39

Tot Ion:1

Ion Rati

105 100

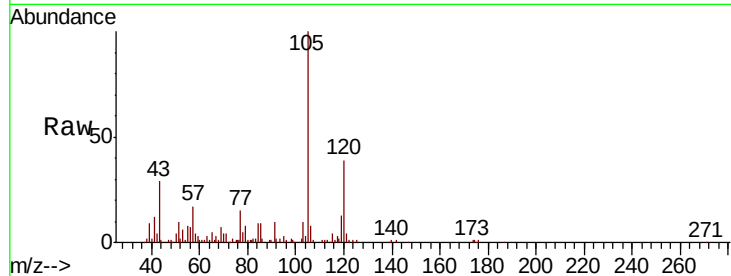
120 38.

Manual Integrations

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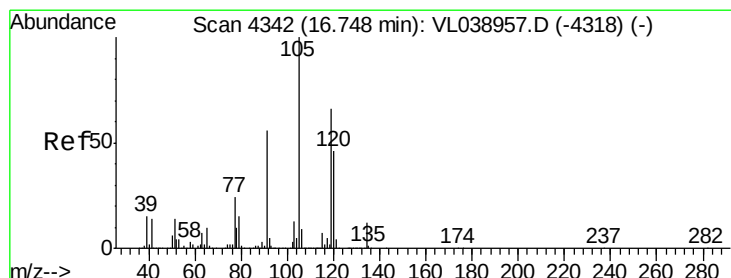
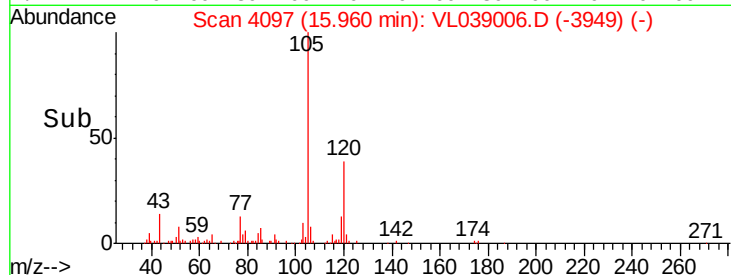
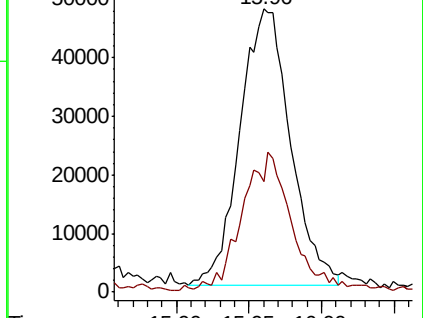
Reviewed By :Semsettin Yesilyurt 05/10/2022

Supervised By :Mahesh Dadoda 05/11/2022



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.601 ppbv

RT: 16.73 min Scan# 4335

Delta R.T. -0.02 min

Lab File: VL039006.D

Acq: 10 May 2022 3:39

Tgt Ion:105 Resp: 210338

Ion Ratio Lower Upper

105 100

120 46.4 36.9 55.3

91 9.9 45.0 67.4#

77 14.4 19.2 28.8#

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

