

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038069.D
 Acq On : 19 Nov 2021 1:03
 Operator : SY/AP
 Sample : M4704-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 TRANS-SHOP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021
 Supervised By :Mahesh Dadoda 11/29/2021

Quant Time: Nov 19 08:30:37 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	826060	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2383378	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1991477	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1449133	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	29696	0.218 ppbv	93
4) Chloromethane	3.15	50	25639	0.434 ppbv	97
9) Propene	3.02	41	2476412	38.761 ppbv	97
10) Heptane	8.12	43	86084	0.545 ppbv	97
11) Trichlorofluoromethane	3.96	101	28060	0.216 ppbv	85
13) Ethanol	3.61	45	442055	71.599 ppbv	89
15) Acetone	3.85	43	9436596	131.758 ppbv	92
17) tert-Butyl alcohol	4.30	59	132322	1.523 ppbv	99
19) Isopropyl Alcohol	3.97	45	130088	2.514 ppbv #	95
20) Methylene Chloride	4.35	84	403939	10.069 ppbv	95
26) Hexane	5.69	57	405599	3.535 ppbv #	43
27) Carbon Disulfide	4.56	76	77264	0.752 ppbv #	79
29) Chloroform	5.76	83	17785m	0.105 ppbv	
30) Cyclohexane	7.13	84	35259m	0.339 ppbv	
34) 2-Butanone	5.24	43	408933	4.255 ppbv	97
35) Carbon Tetrachloride	7.02	117	7861m	0.047 ppbv	
36) Benzene	6.89	78	110451	0.465 ppbv #	92
44) 2,2,4-Trimethylpentane	7.87	57	147346	0.370 ppbv #	79
51) 2-Hexanone	10.14	43	52597	0.766 ppbv #	96
53) Toluene	9.80	91	695601	2.543 ppbv	98
58) Ethyl Benzene	12.71	91	132953	0.404 ppbv	100
59) m/p-Xylene	12.96	91	346950m	1.252 ppbv	
60) o-Xylene	13.69	91	120651	0.469 ppbv	100
72) 4-Ethyltoluene	15.83	105	50491m	0.169 ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	28406m	0.104 ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	104653	0.373 ppbv #	67

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

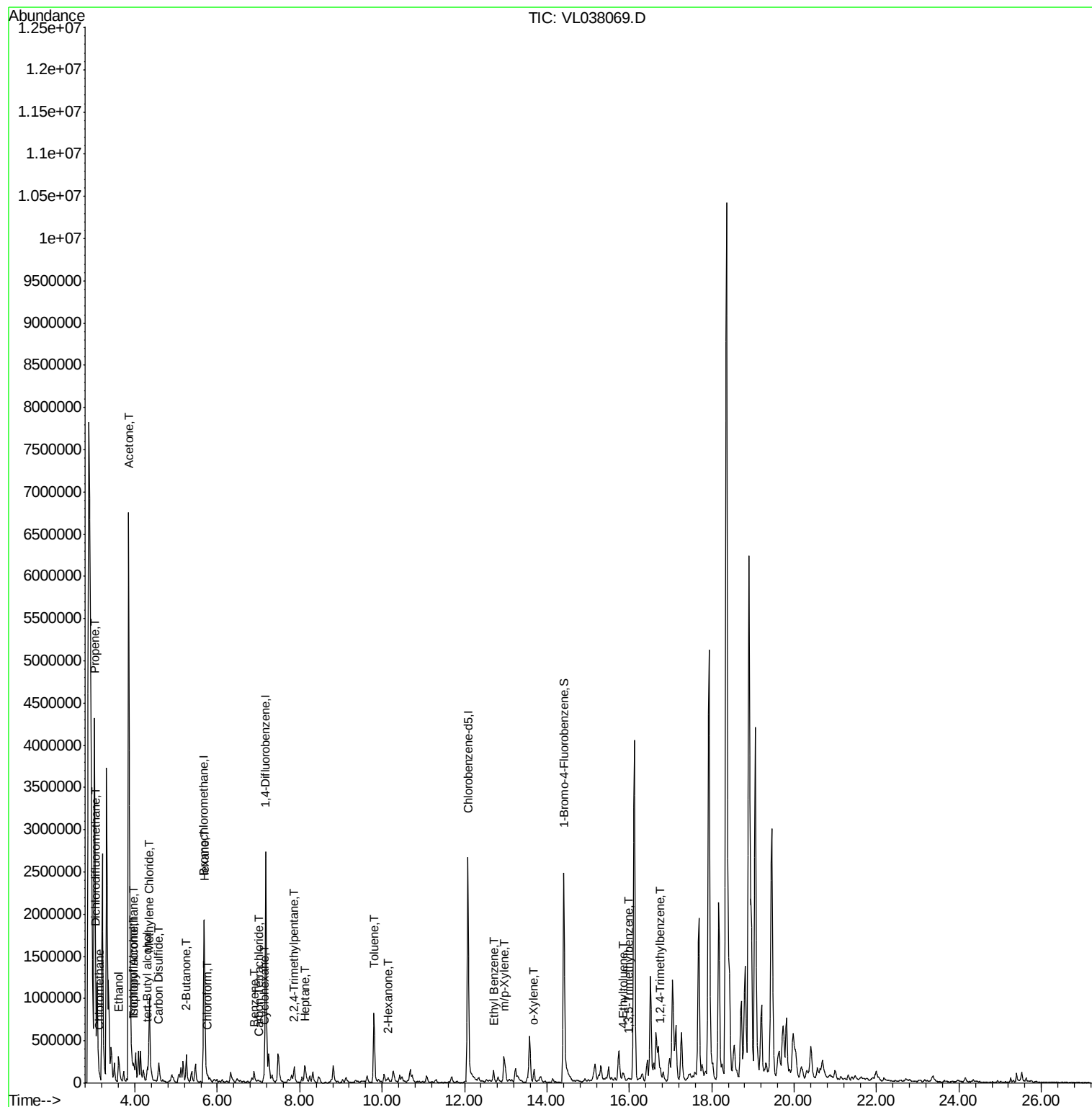
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
Data File : VL038069.D
Acq On : 19 Nov 2021 1:03
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ALS Vial : 1 Sample Multiplier: 1

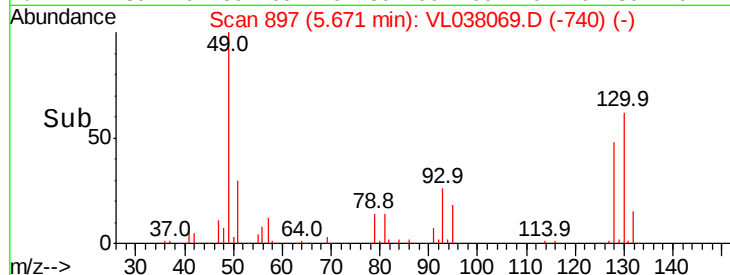
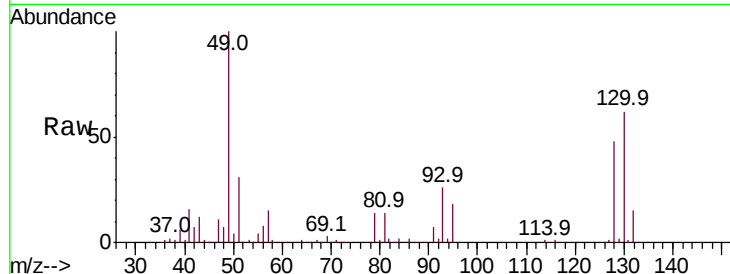
Instrument :
MSVOA_L
ClientSampleId :
TRANS-SHOP

Quant Time: Nov 19 08:30:37 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
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Supervised By :Mahesh Dadoda 11/29/2021



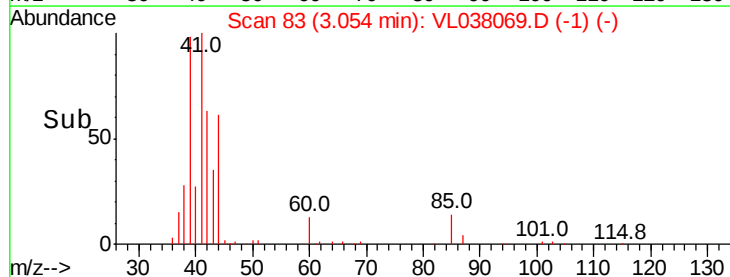
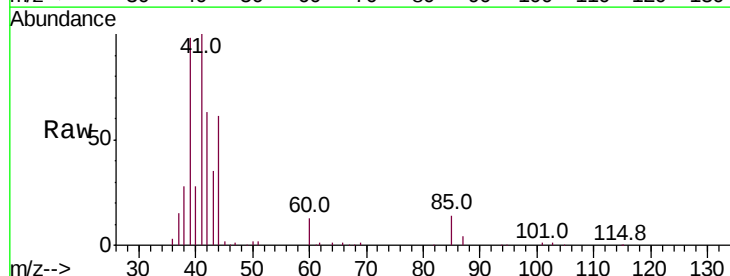
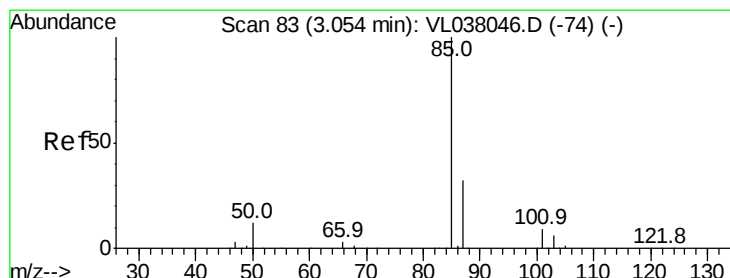
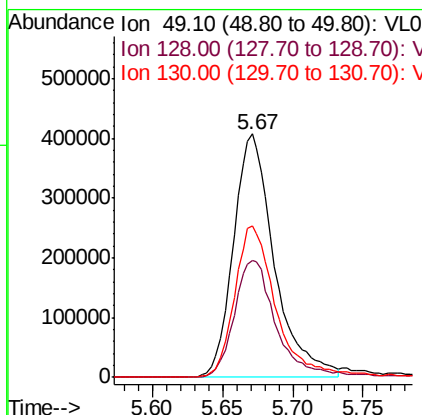


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 19 Nov 2021 1:03

Tot Ion:
Ion Ratio
49 100
128 50.
130 64.

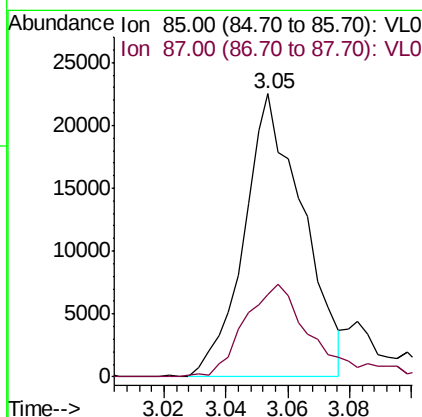
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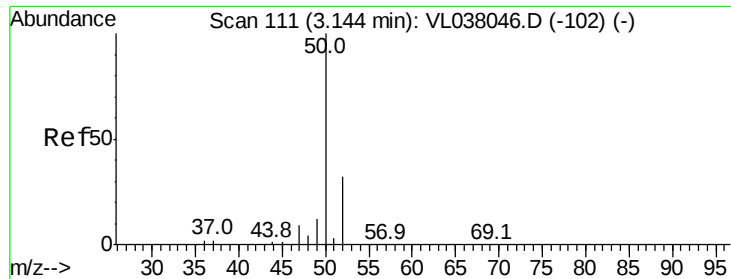
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#2
Dichlorodifluoromethane
Concen: 0.218 ppbv
RT: 3.05 min Scan# 83
Delta R.T. 0.00 min
Lab File: VL038069.D
Acq: 19 Nov 2021 1:03

Tgt Ion: 85 Resp: 29696
Ion Ratio Lower Upper
85 100
87 28.3 25.8 38.6





#4

Chloromethane

Concen: 0.434 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Nov 2021 1:03 TRANS-SHOP

Tot Ion:

Ion Ratio

50 100

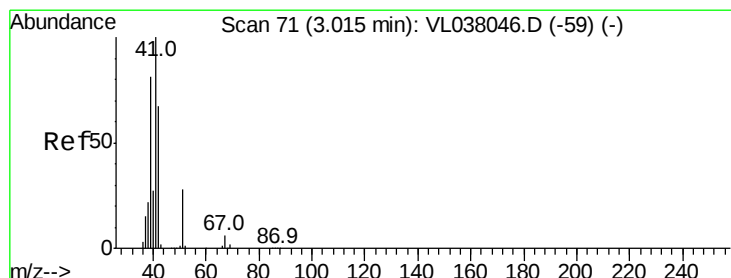
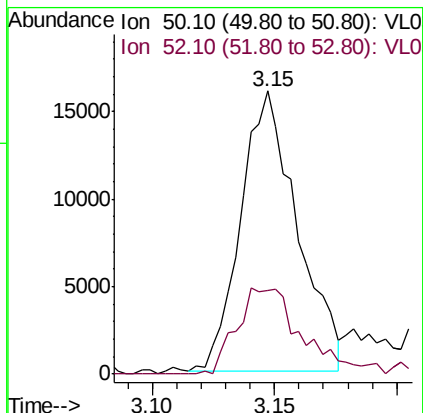
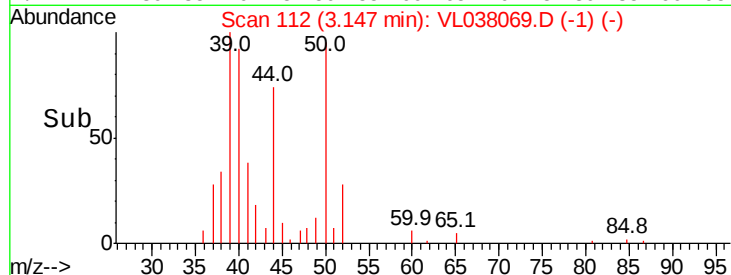
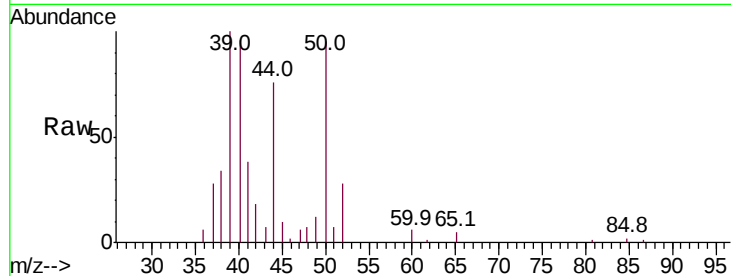
52 29.

Manual Integrations

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Supervised By :Mahesh Dadoda 11/29/2021



#9

Propene

Concen: 38.761 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL038069.D

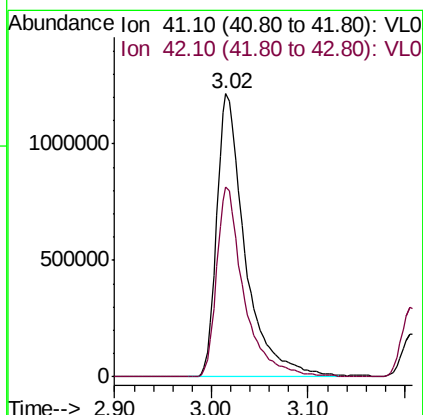
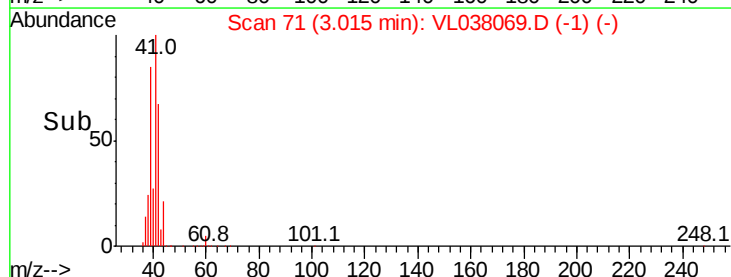
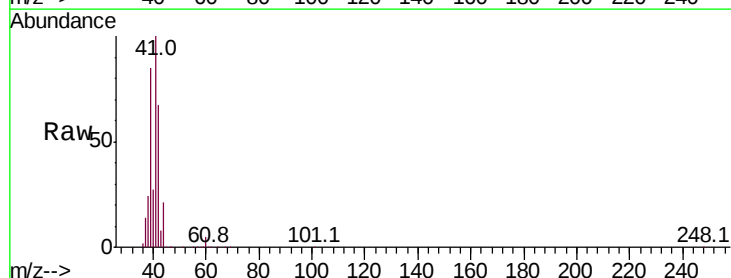
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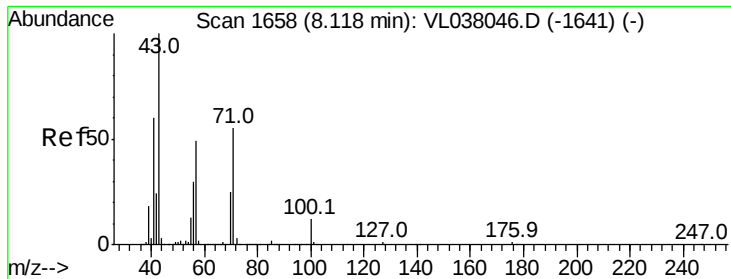
Tgt Ion: 41 Resp: 2476412

Ion Ratio Lower Upper

41 100

42 64.6 53.8 80.8



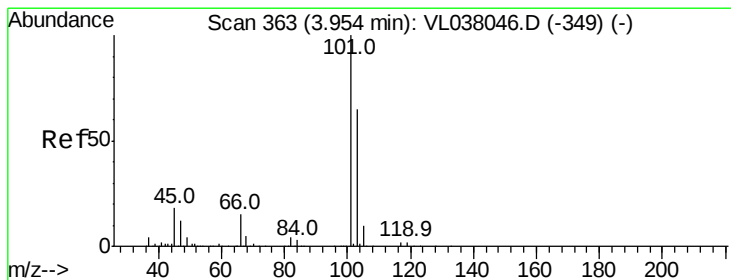
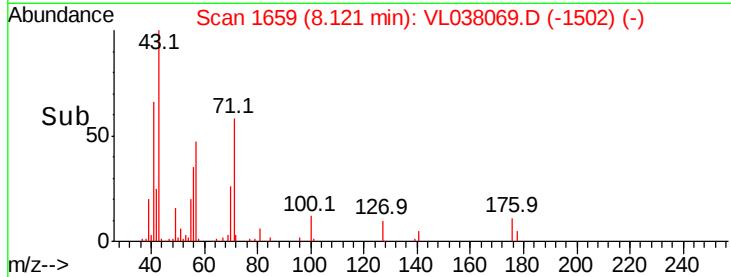
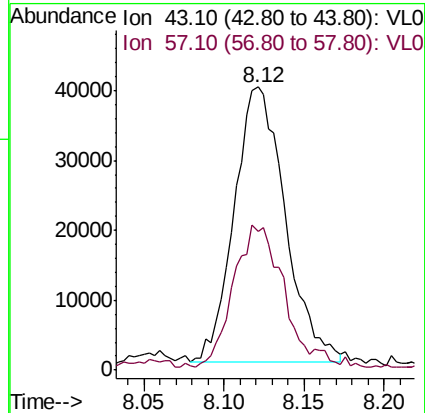
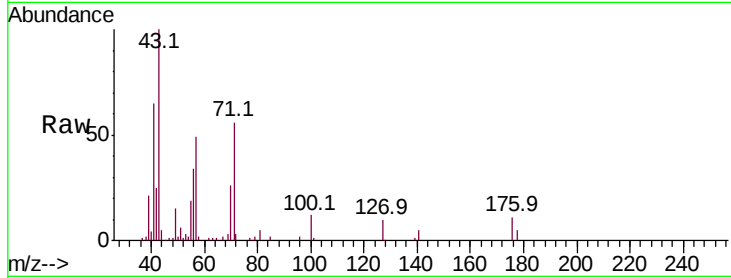


#10
Heptane
Concen: 0.545 ppbv
RT: 8.12
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 19 Nov 2021 1:03

Tot Ion:
Ion Ratio
43 100
57 52.

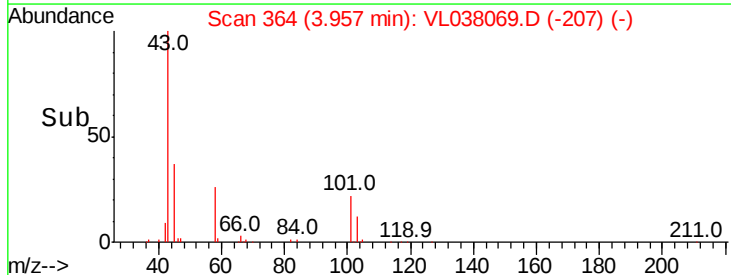
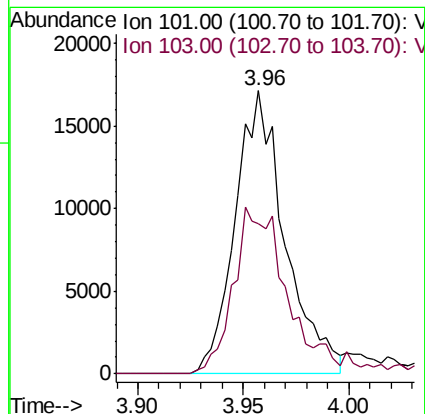
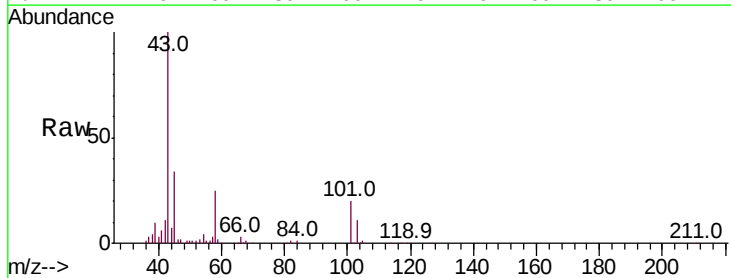
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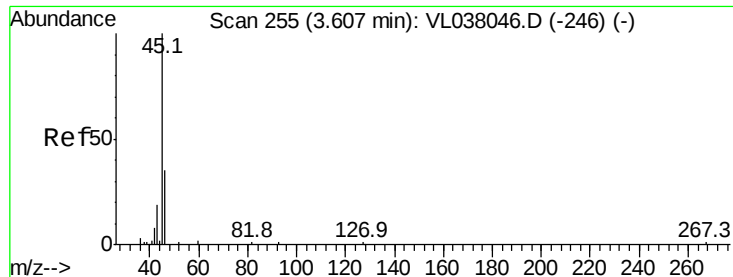
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#11
Trichlorofluoromethane
Concen: 0.216 ppbv
RT: 3.96 min Scan# 364
Delta R.T. 0.00 min
Lab File: VL038069.D
Acq: 19 Nov 2021 1:03

Tgt Ion:101 Resp: 28060
Ion Ratio Lower Upper
101 100
103 53.2 51.8 77.6



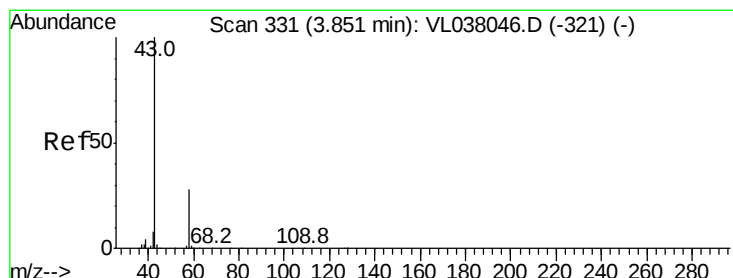
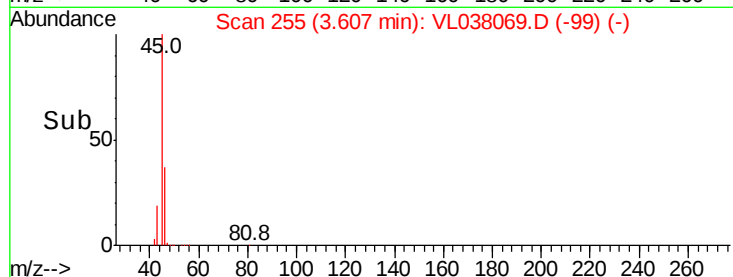
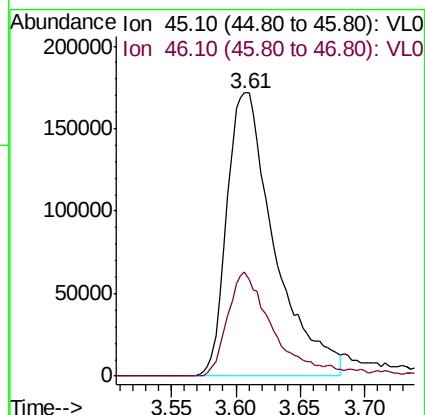
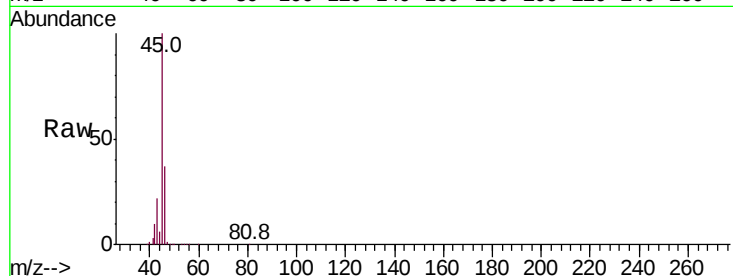


#13
Ethanol
Concen: 71.599 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 19 Nov 2021 1:03

Tot Ion:
Ion Ratio
45 100
46 36.

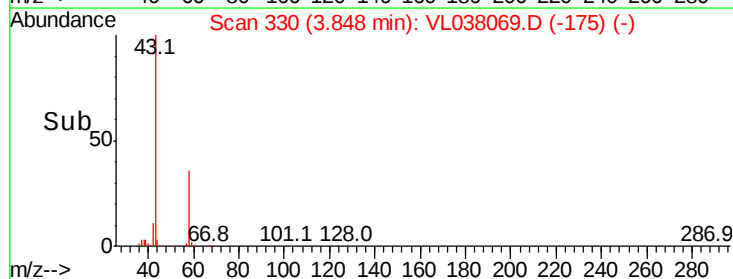
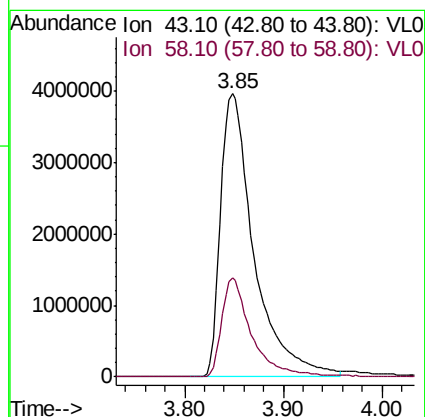
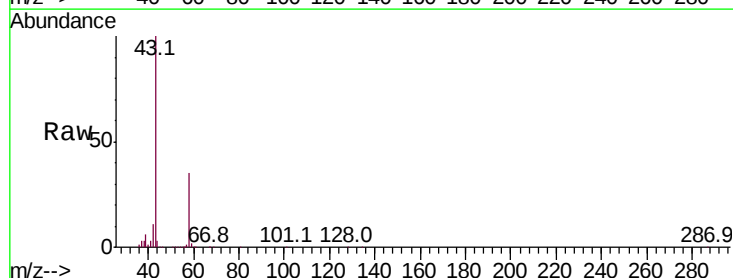
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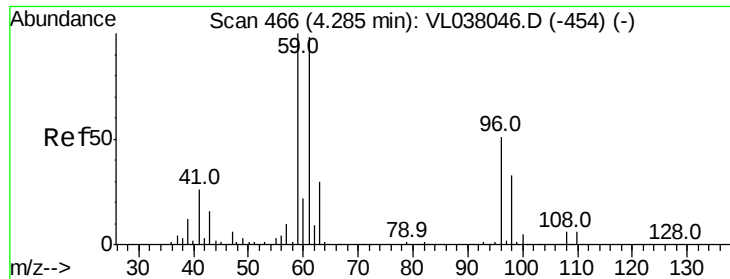
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#15
Acetone
Concen: 131.758 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL038069.D
Acq: 19 Nov 2021 1:03

Tgt Ion: 43 Resp: 9436596
Ion Ratio Lower Upper
43 100
58 31.9 22.4 33.6





#17

tert-Butyl alcohol

Concen: 1.523 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Nov 2021 1:03 TRANS-SHOP

Tot Ion:

Ion Ratio

59 100

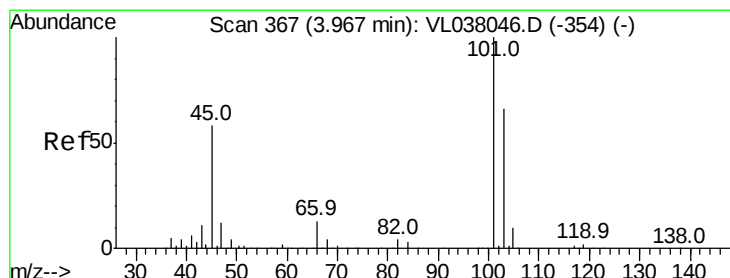
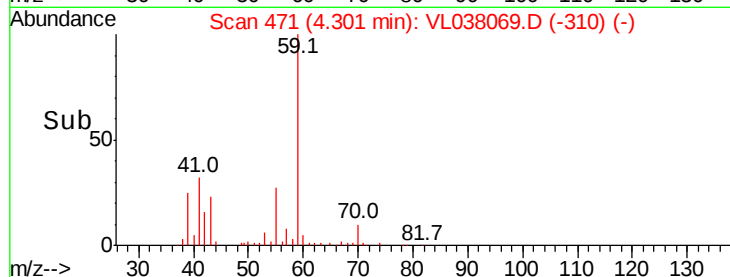
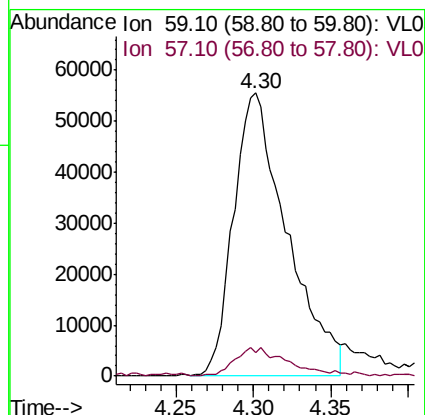
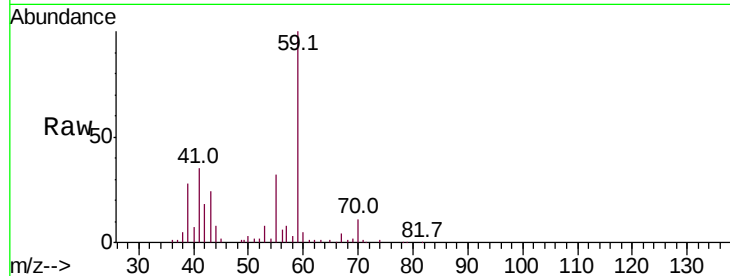
57 11.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#19

Isopropyl Alcohol

Concen: 2.514 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL038069.D

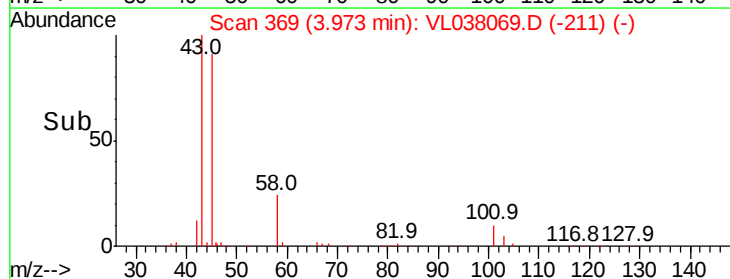
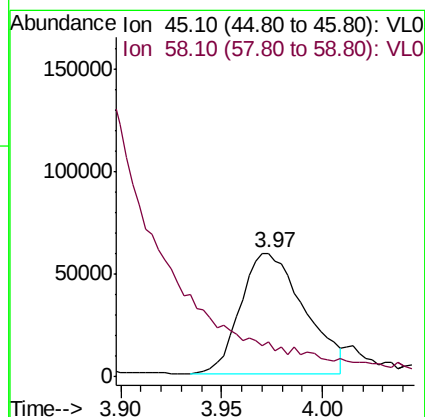
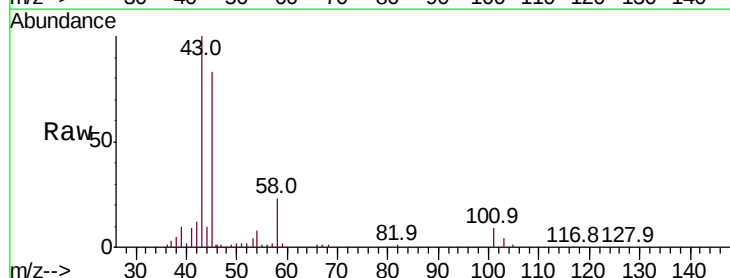
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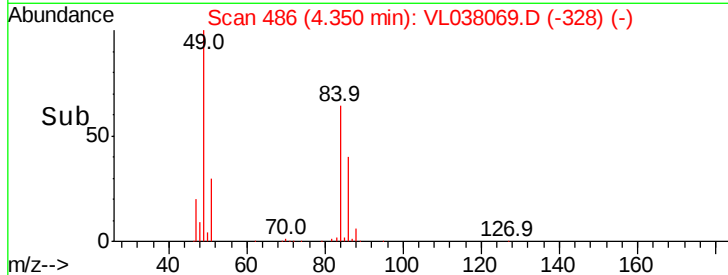
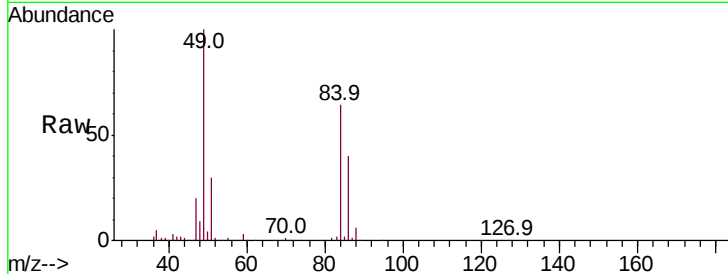
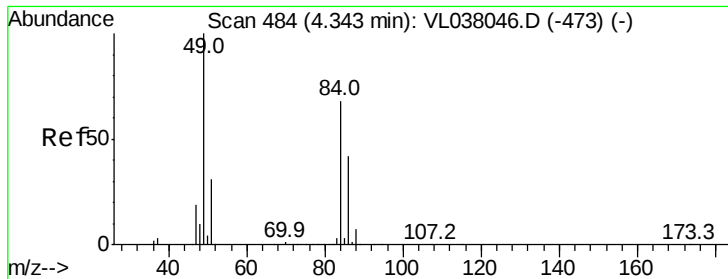
Tgt Ion: 45 Resp: 130088

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#



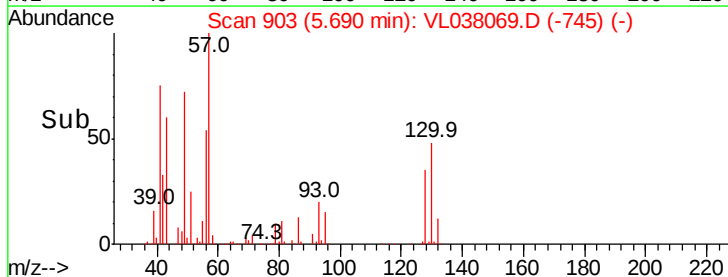
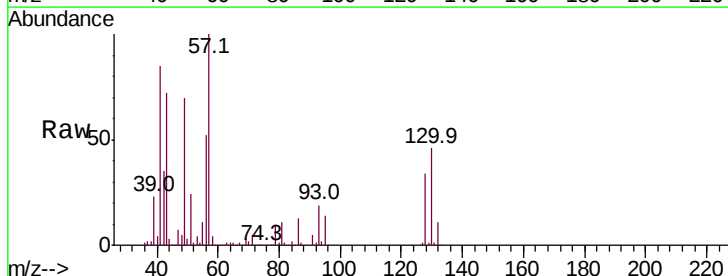
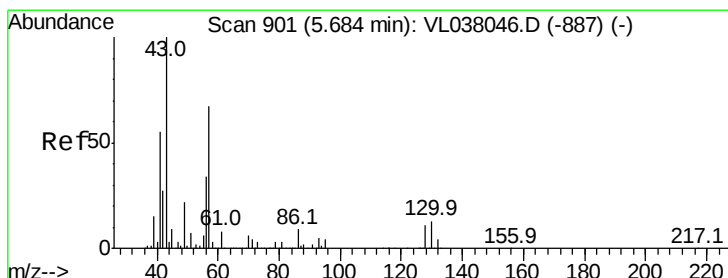
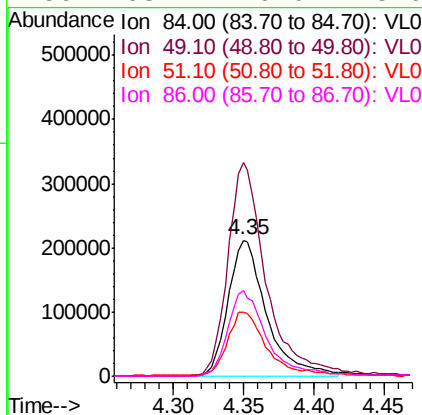


#20
Methvlene Chloride
Concen: 10.069 ppbv
RT: 4.35
Instrument : MSVOA_L
Delta R.T. :
Lab File: ClientSampleId :
Acq: 19 Nov 2021 1:03

Tot Ion:
Ion Ratio
84 100
49 156.
51 45.
86 63.2 49.0 73.6

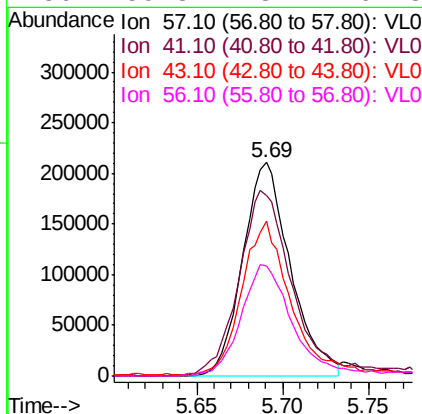
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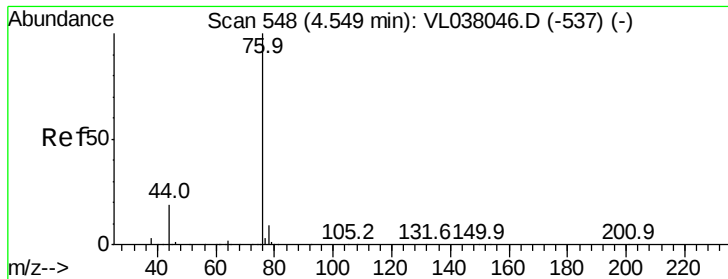
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#26
Hexane
Concen: 3.535 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL038069.D
Acq: 19 Nov 2021 1:03

Tgt Ion: 57 Resp: 405599
Ion Ratio Lower Upper
57 100
41 100.1 71.4 107.2
43 76.7 174.6 261.8#
56 59.3 43.2 64.8





#27

Carbon Disulfide

Concen: 0.752 ppbv

RT: 4.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Nov 2021 1:03 TRANS-SHOP

Tot Ion:

Ion Ratio

76 100

44 32.

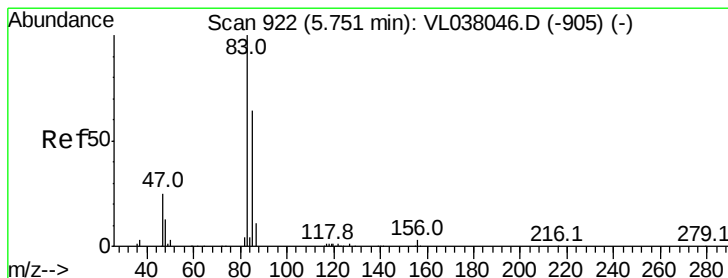
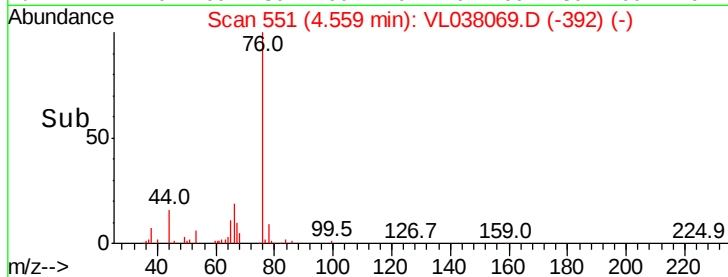
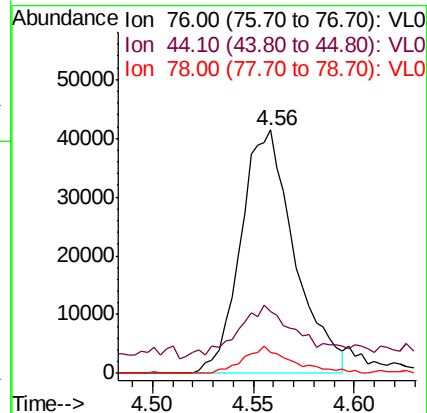
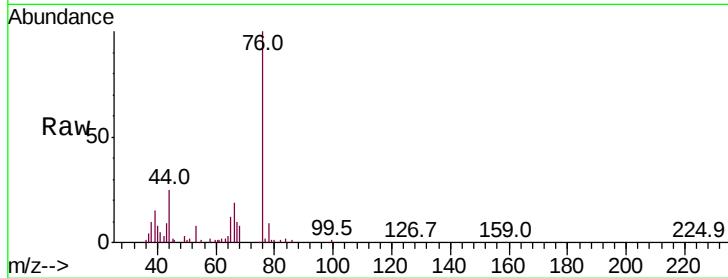
78 10.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#29

Chloroform

Concen: 0.105 ppbv m

RT: 5.76 min Scan# 924

Delta R.T. 0.01 min

Lab File: VL038069.D

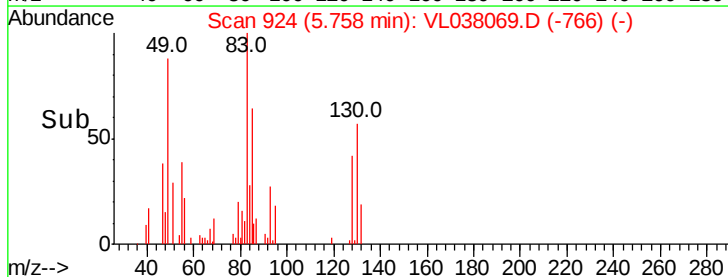
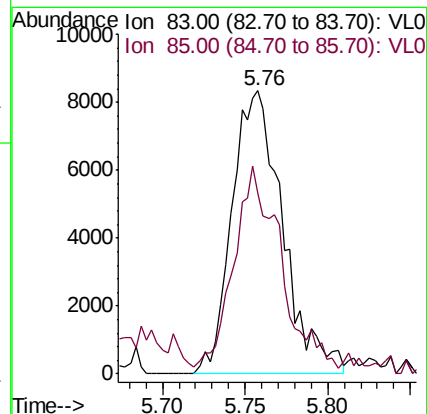
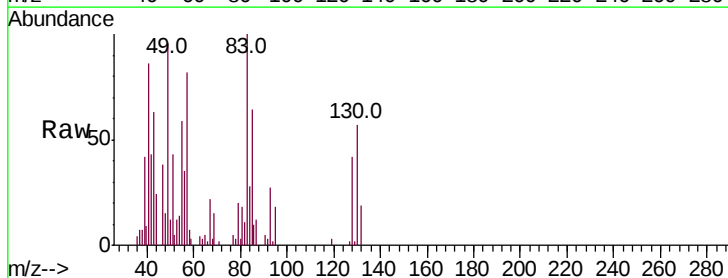
Acq: 19 Nov 2021 1:03

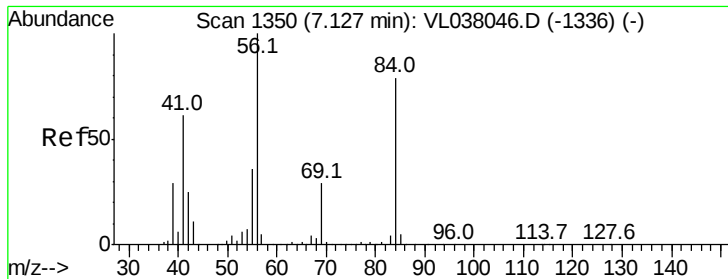
Tgt Ion: 83 Resp: 17785

Ion Ratio Lower Upper

83 100

85 64.0 51.0 76.6



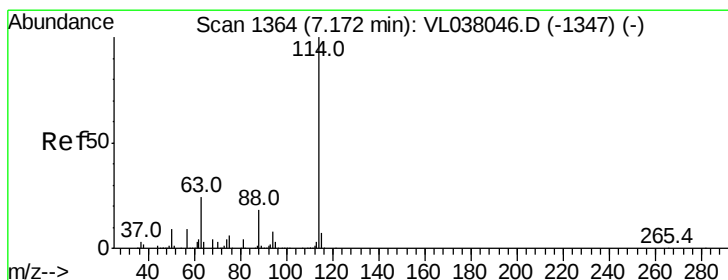
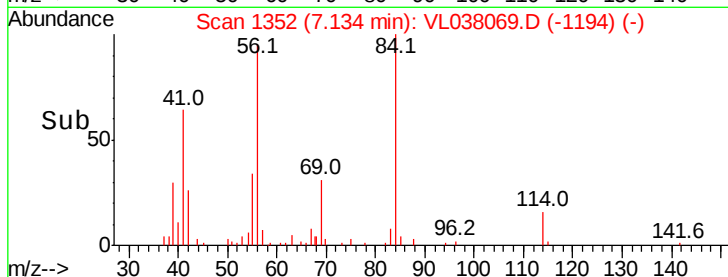
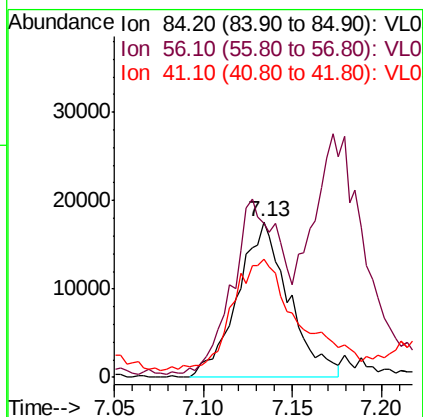
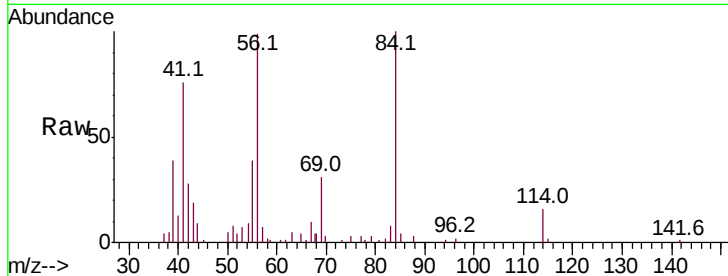


#30
Cvclohexane
Concen: 0.339 ppbv m
RT: 7.13
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 19 Nov 2021 1:03

Tot Ion:
Ion Ratio
84 100
56 115.
41 95.

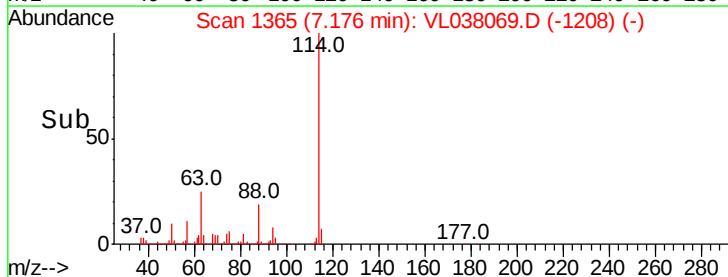
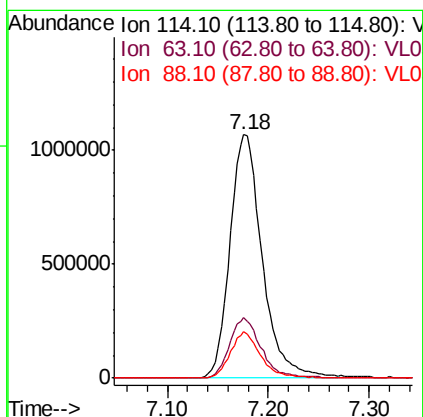
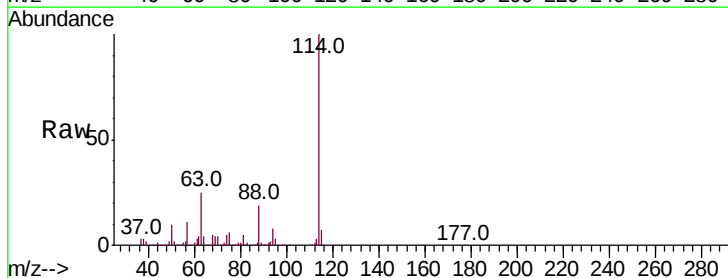
Manual Integrations
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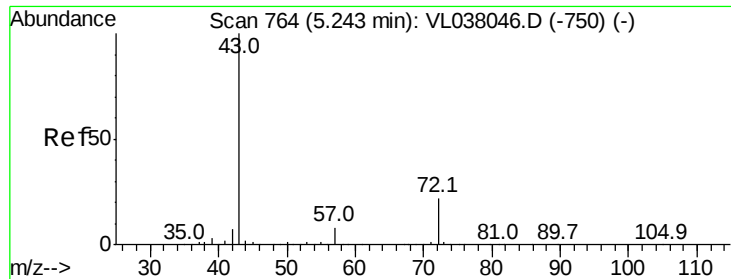
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. 0.00 min
Lab File: VL038069.D
Acq: 19 Nov 2021 1:03

Tgt Ion:114 Resp: 2383378
Ion Ratio Lower Upper
114 100
63 24.4 19.7 29.5
88 18.2 14.4 21.6



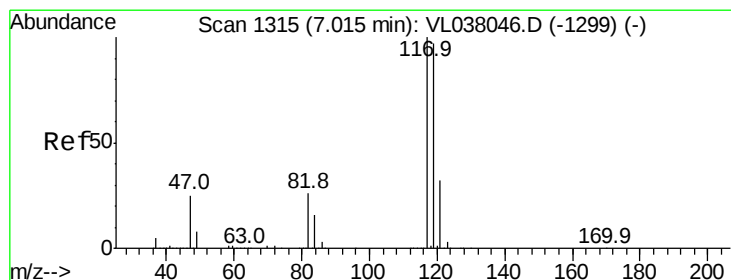
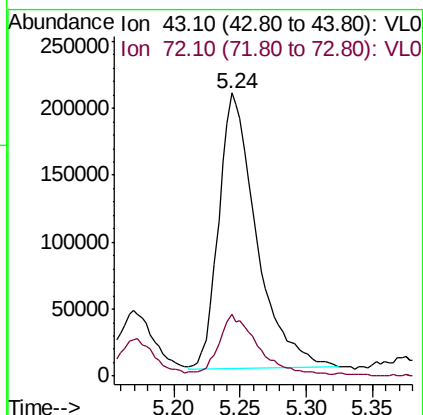
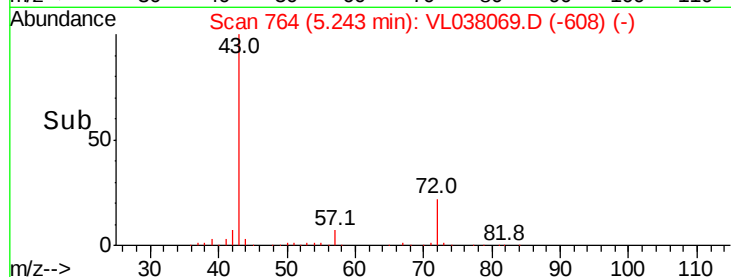
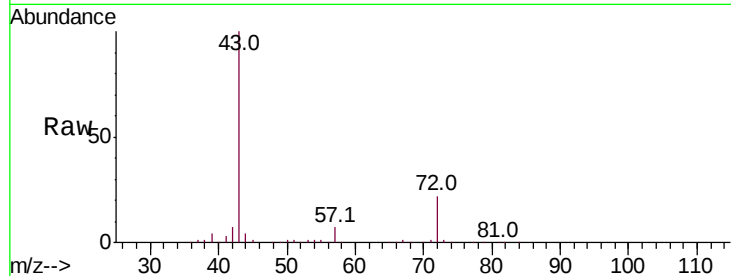


#34
2-Butanone
Concen: 4.255 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 19 Nov 2021 1:03

Tot Ion:
Ion Ratio
43 100
72 24.

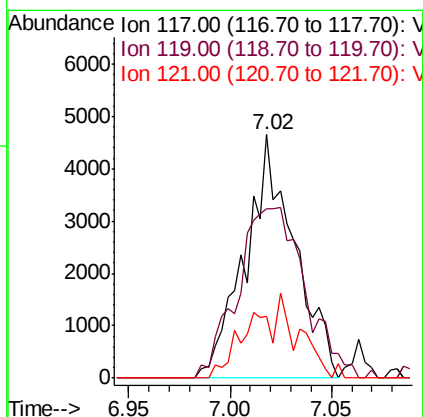
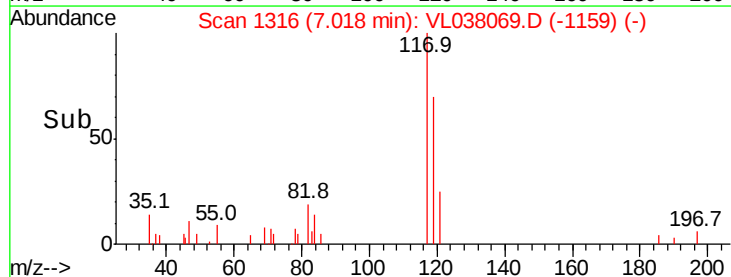
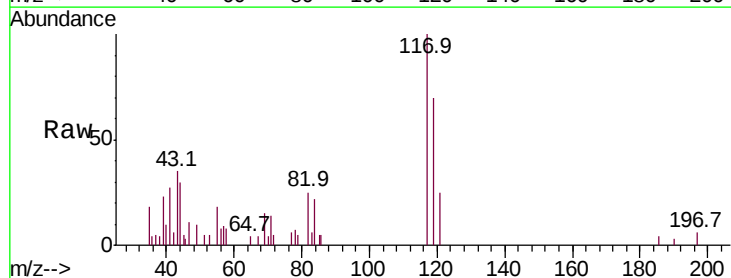
Manual Integrations
APPROVED

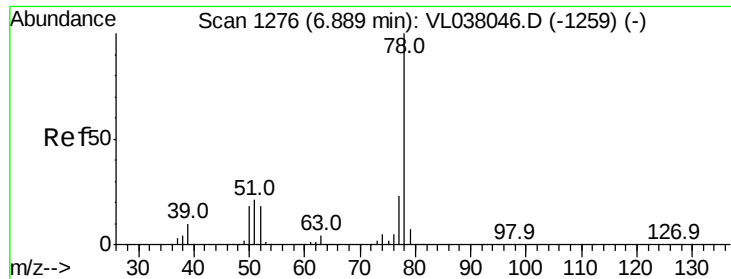
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#35
Carbon Tetrachloride
Concen: 0.047 ppbv m
RT: 7.02 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VL038069.D
Acq: 19 Nov 2021 1:03

Tgt Ion:117 Resp: 7861
Ion Ratio Lower Upper
117 100
119 69.8 77.7 116.5#
121 25.2 25.6 38.4#



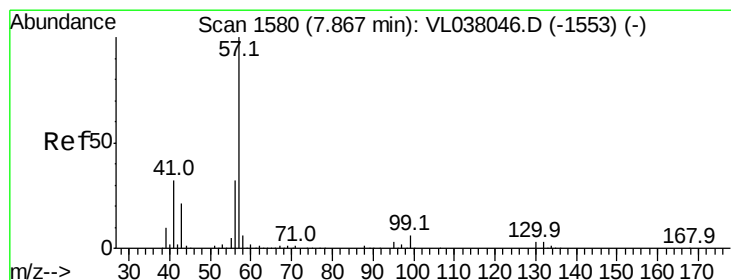
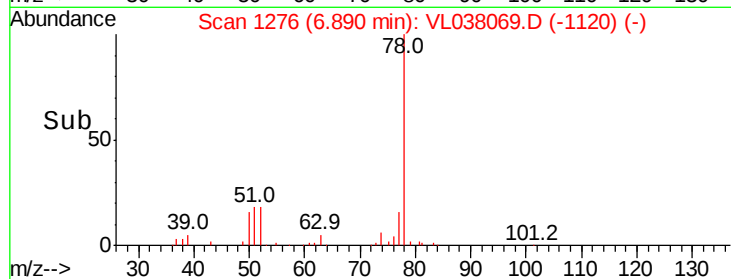
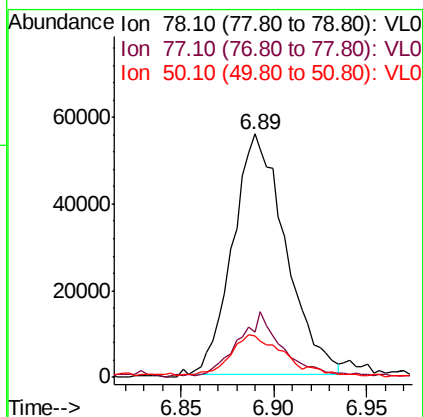
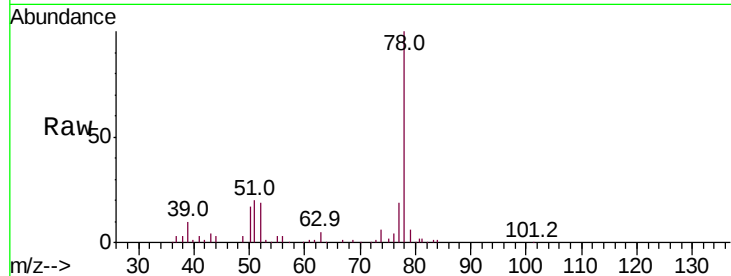


#36
Benzene
Concen: 0.465 ppbv
RT: 6.89
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 19 Nov 2021 1:03

Tot Ion:
Ion Ratio
78 100
77 17.
50 16.

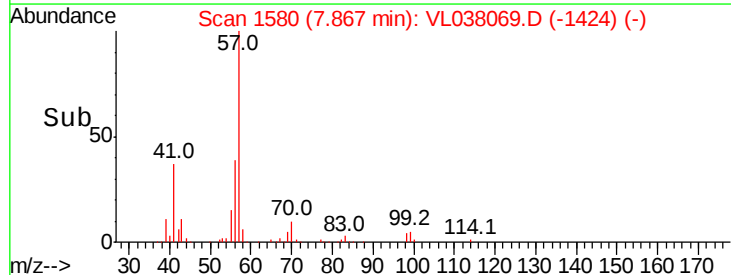
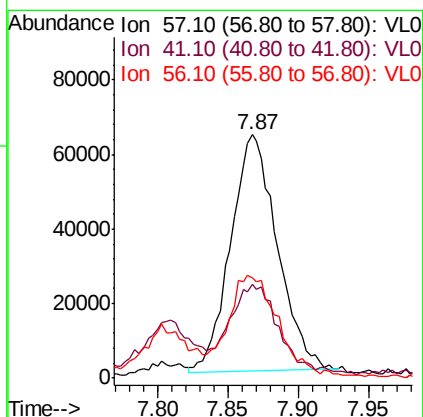
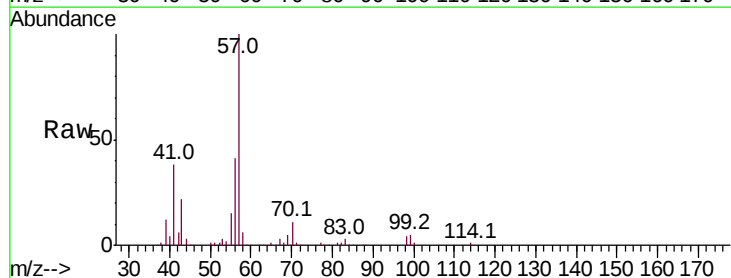
Manual Integrations
APPROVED

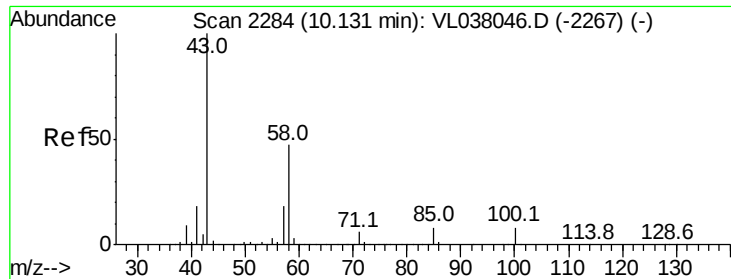
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#44
2,2,4-Trimethylpentane
Concen: 0.370 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. 0.00 min
Lab File: VL038069.D
Acq: 19 Nov 2021 1:03

Tgt Ion: 57 Resp: 147346
Ion Ratio Lower Upper
57 100
41 41.3 25.8 38.6#
56 45.9 25.6 38.4#





#51

2-Hexanone

Concen: 0.766 ppbv

RT: 10.14

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 19 Nov 2021 1:03

Tot Ion:

Ion Ratio

43 100

58 54.

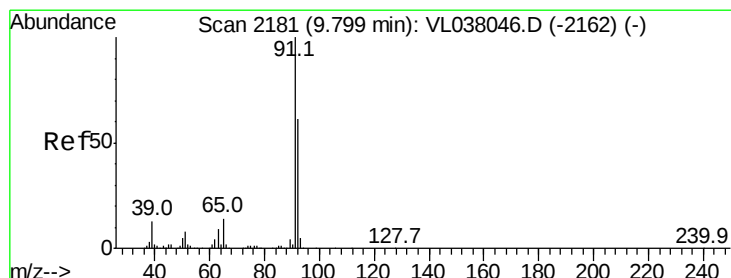
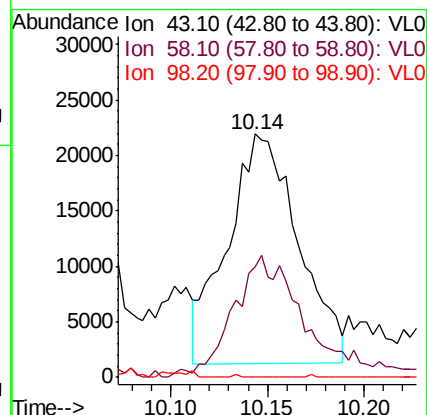
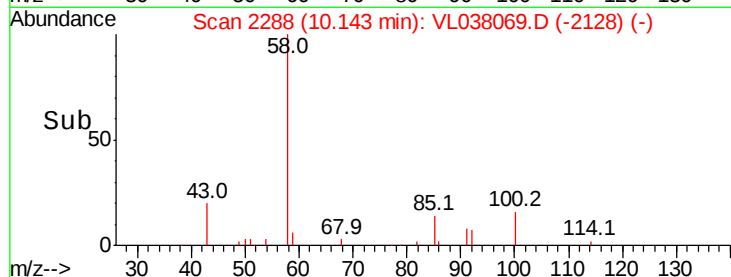
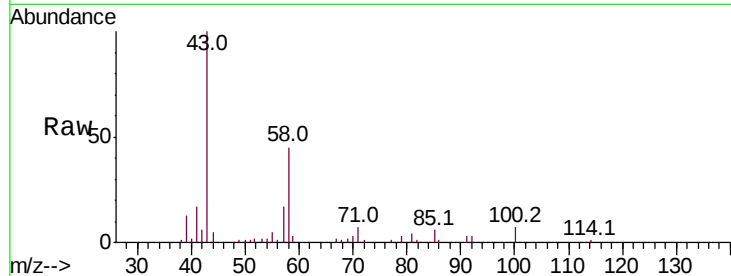
98 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#53

Toluene

Concen: 2.543 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL038069.D

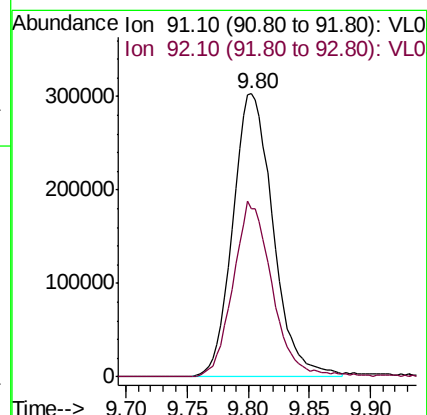
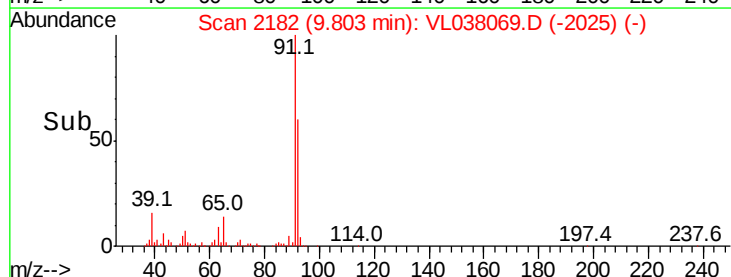
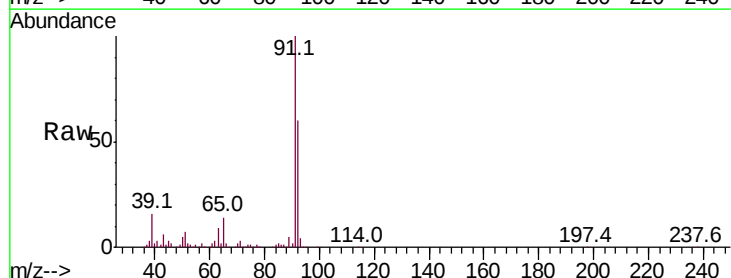
Acq: 19 Nov 2021 1:03

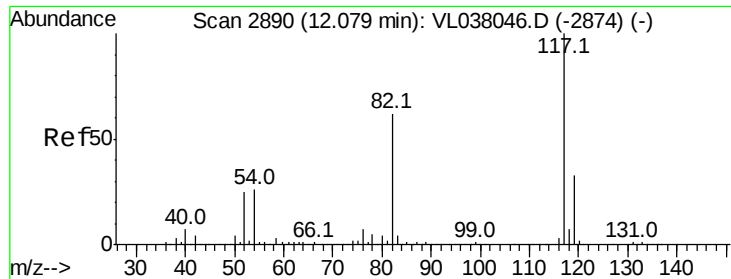
Tgt Ion: 91 Resp: 695601

Ion Ratio Lower Upper

91 100

92 60.6 49.7 74.5



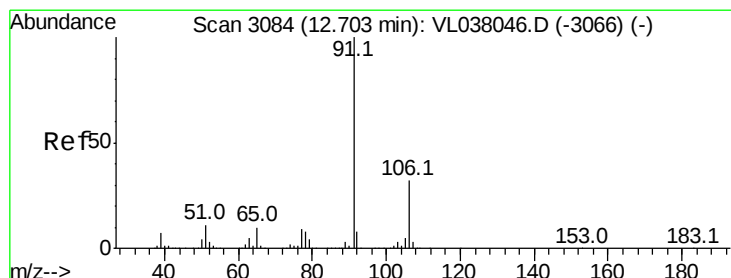
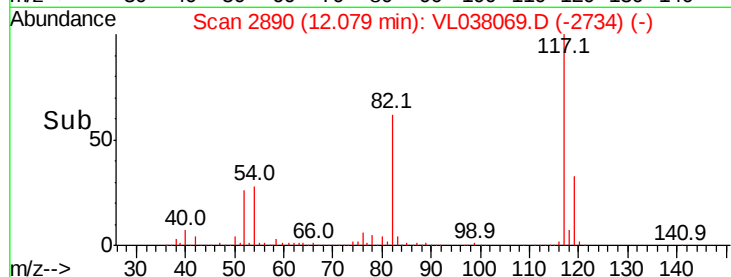
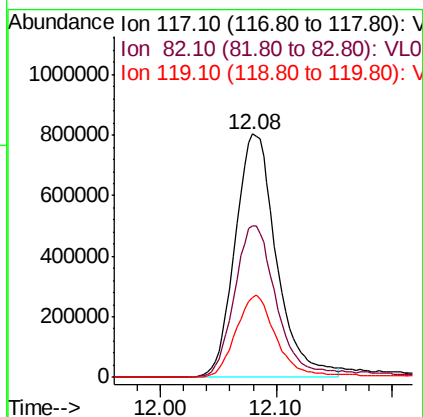
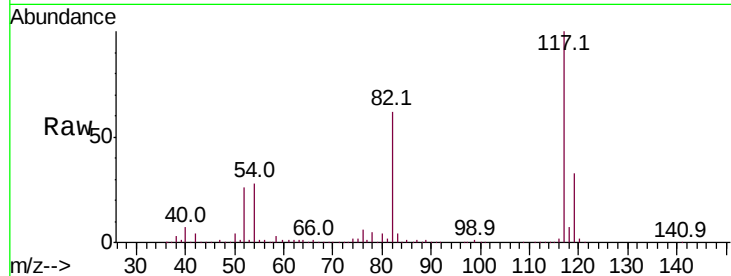


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.: 0.00 min
Lab File: ClientSampleId :
Acq: 19 Nov 2021 1:03

Tot Ion: 1
Ion Ratio
117 100
82 67.
119 34.

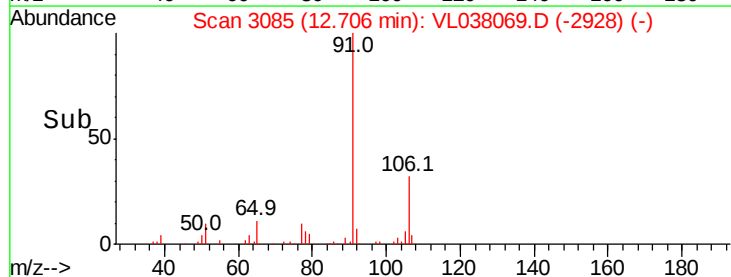
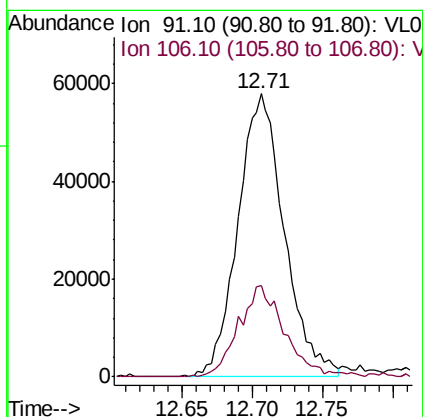
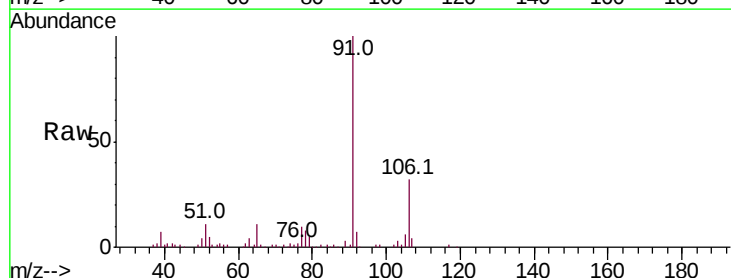
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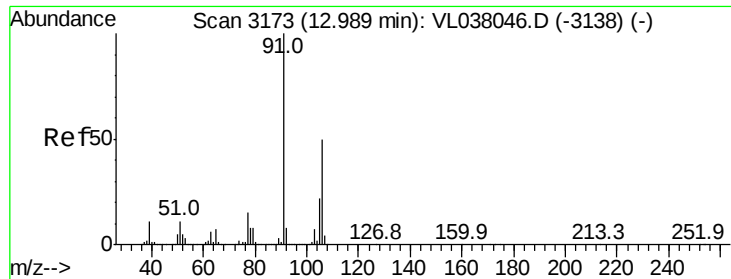
Reviewed By : Semsettin Yesilyurt 11/25/2021
Supervised By : Mahesh Dadoda 11/29/2021



#58
Ethyl Benzene
Concen: 0.404 ppbv
RT: 12.71 min Scan# 3085
Delta R.T.: 0.00 min
Lab File: VL038069.D
Acq: 19 Nov 2021 1:03

Tgt Ion: 91 Resp: 132953
Ion Ratio Lower Upper
91 100
106 32.1 25.8 38.6



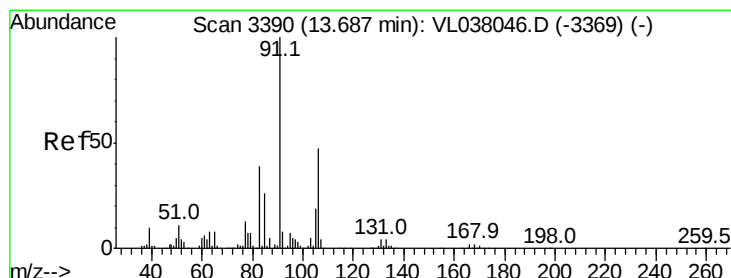
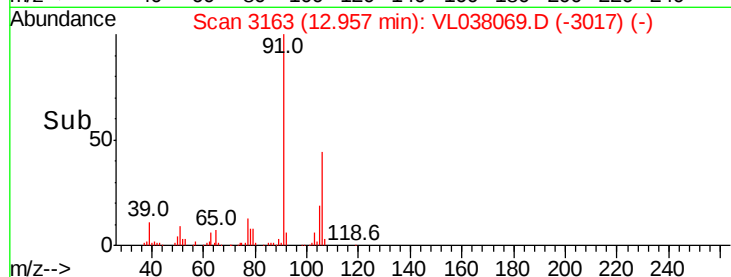
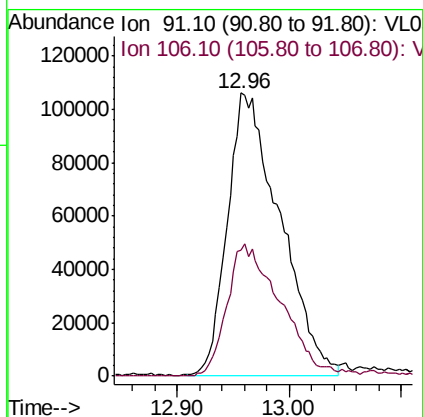
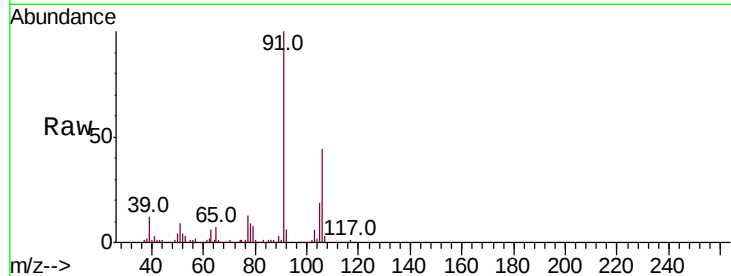


#59
m/p-Xylene
Concen: 1.252 ppbv m
RT: 12.96
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 19 Nov 2021 1:03

Tot Ion:
Ion Ratio
91 100
106 0.

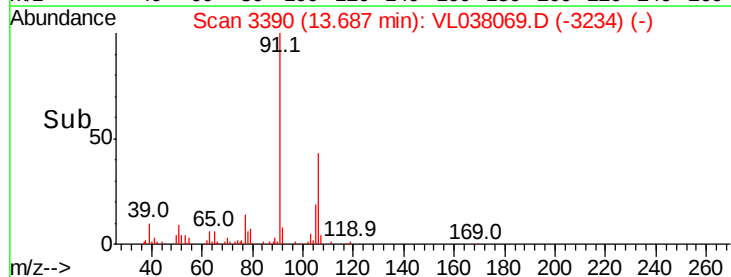
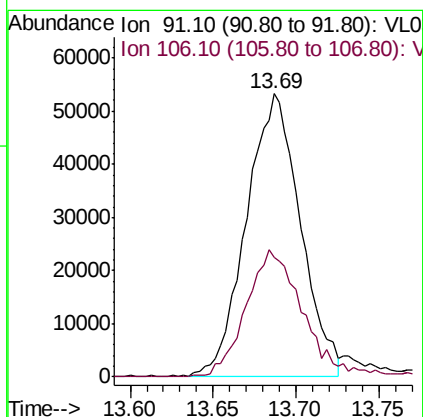
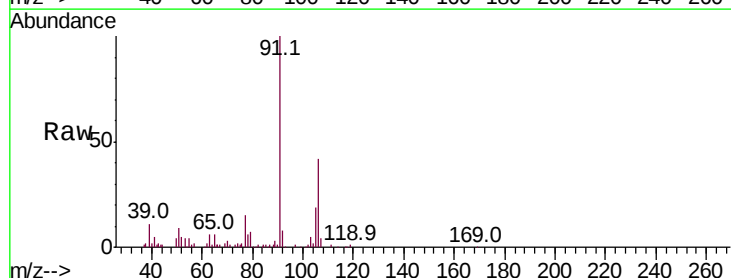
Manual Integrations
APPROVED

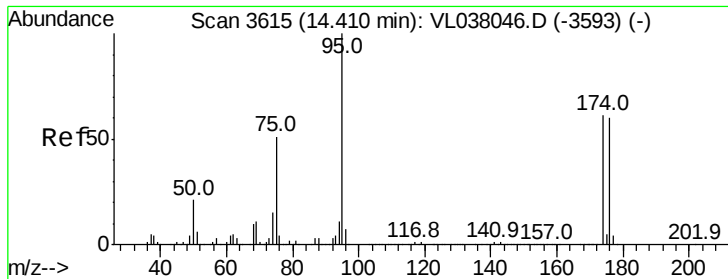
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#60
o-Xylene
Concen: 0.469 ppbv
RT: 13.69 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VL038069.D
Acq: 19 Nov 2021 1:03

Tgt Ion: 91 Resp: 120651
Ion Ratio Lower Upper
91 100
106 48.2 24.2 72.6





#68

1-Bromo-4-Fluorobenzene

Concen: 10.088 ppbv

RT: 14.41

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Nov 2021 1:03

Tot Ion:

Ion Ratio

95 100

174 67.

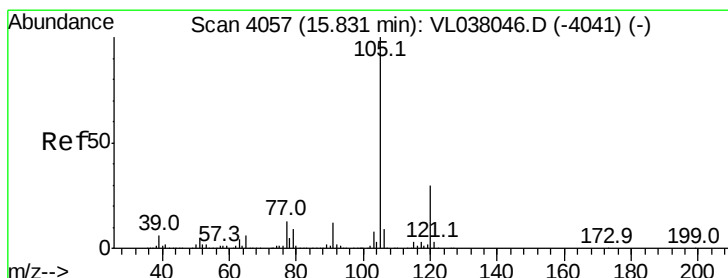
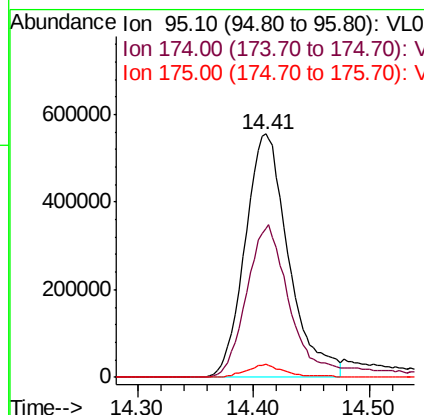
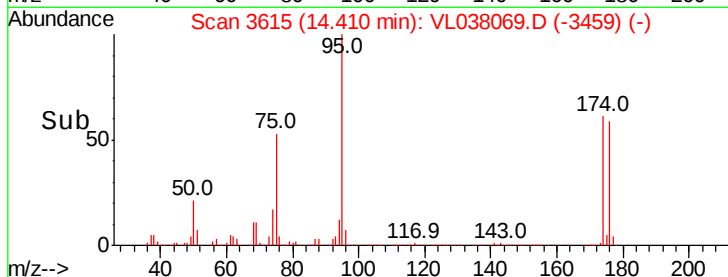
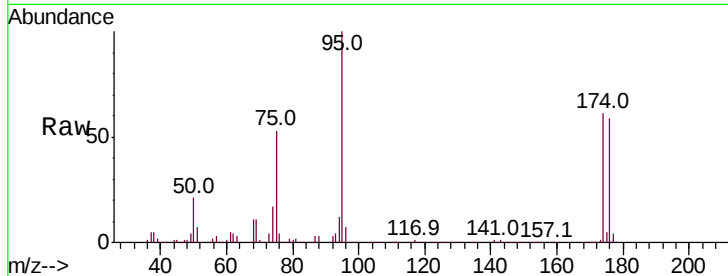
175 5.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#72

4-Ethyltoluene

Concen: 0.169 ppbv m

RT: 15.83 min Scan# 4057

Delta R.T. 0.00 min

Lab File: VL038069.D

Acq: 19 Nov 2021 1:03

Tgt Ion:105 Resp: 50491

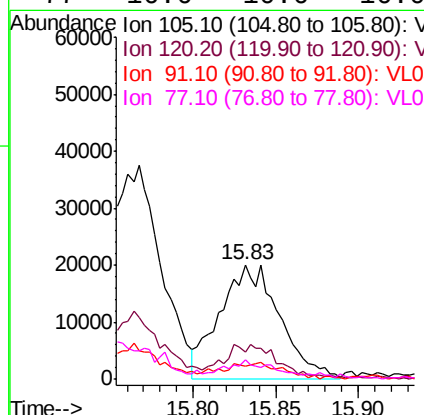
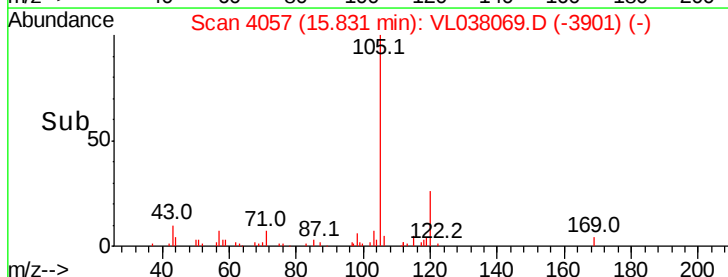
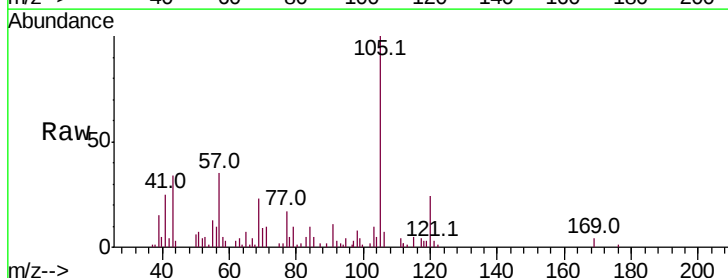
Ion Ratio Lower Upper

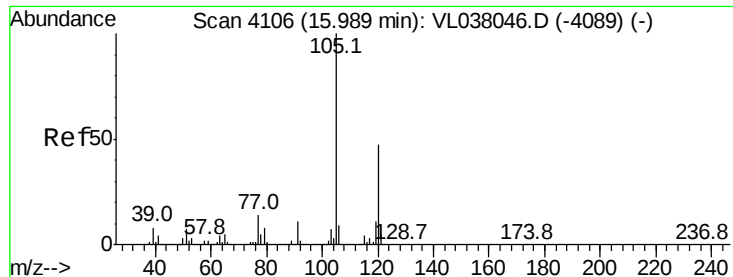
105 100

120 28.4 25.1 37.7

91 0.0 9.7 14.5#

77 16.6 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.104 ppbv m

RT: 15.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 19 Nov 2021 1:03

Tot Ion:1

Ion Rati

105 100

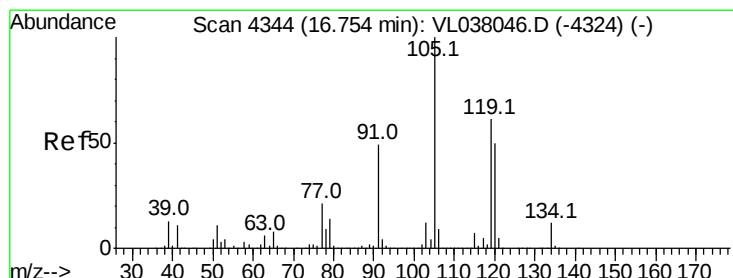
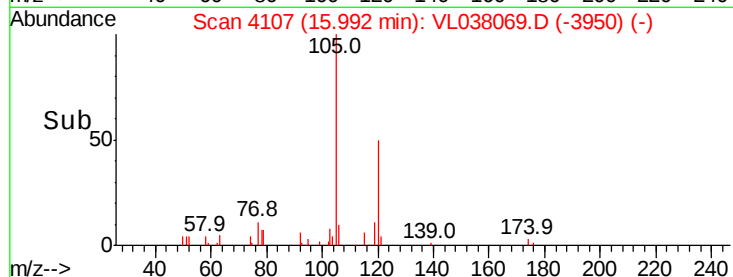
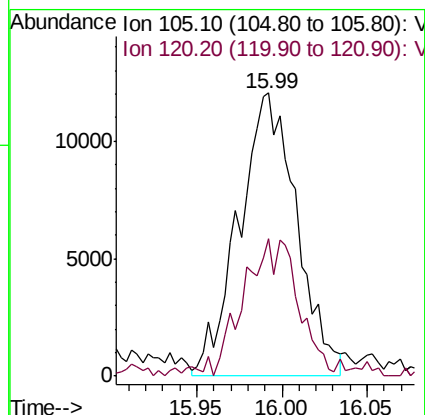
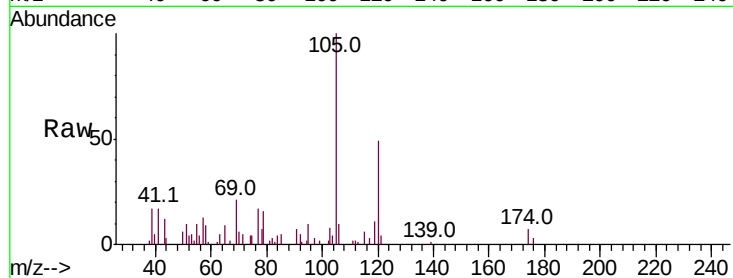
120 48.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#74

1,2,4-Trimethylbenzene

Concen: 0.373 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. 0.00 min

Lab File: VL038069.D

Acq: 19 Nov 2021 1:03

Tgt Ion:105 Resp: 104653

Ion Ratio Lower Upper

105 100

120 43.0 40.1 60.1

91 9.5 39.8 59.8#

77 9.8 16.6 25.0#

