

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038063.D
 Acq On : 18 Nov 2021 21:07
 Operator : SY/AP
 Sample : M4704-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 15-JOHNUP

Manual Integrations
 APPROVED

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

Quant Time: Nov 19 08:03:48 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	887216	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2502654	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2068774	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1529603	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	29526	0.201 ppbv	98
4) Chloromethane	3.15	50	27012	0.426 ppbv	99
9) Propene	3.02	41	1904976	27.762 ppbv	96
10) Heptane	8.12	43	184947	1.091 ppbv	99
11) Trichlorofluoromethane	3.96	101	33035	0.237 ppbv	97
13) Ethanol	3.61	45	374623	56.495 ppbv	89
15) Acetone	3.85	43	13107958	170.404 ppbv #	85
17) tert-Butyl alcohol	4.30	59	93258m	0.999 ppbv	
19) Isopropyl Alcohol	3.97	45	334330m	6.015 ppbv	
20) Methylene Chloride	4.35	84	124402	2.887 ppbv	98
26) Hexane	5.69	57	358547	2.910 ppbv #	37
27) Carbon Disulfide	4.56	76	197243	1.787 ppbv	98
29) Chloroform	5.76	83	53855	0.297 ppbv	93
30) Cyclohexane	7.13	84	54320	0.486 ppbv #	83
34) 2-Butanone	5.25	43	586387	5.811 ppbv	99
35) Carbon Tetrachloride	7.02	117	7832m	0.045 ppbv	
36) Benzene	6.90	78	402999	1.614 ppbv	98
38) Trichloroethene	7.83	130	4730m	0.050 ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	382059	0.915 ppbv #	91
52) Tetrachloroethene	11.23	164	4747m	0.051 ppbv	
53) Toluene	9.80	91	1666620	5.802 ppbv	100
58) Ethyl Benzene	12.71	91	338833	0.991 ppbv	99
59) m/p-Xylene	12.96	91	859839	2.987 ppbv	95
60) o-Xylene	13.69	91	313538	1.174 ppbv	97
64) n-propylbenzene	15.56	120	19507m	0.202 ppbv	
72) 4-Ethyltoluene	15.84	105	103821m	0.335 ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	58572	0.207 ppbv	87
74) 1,2,4-Trimethylbenzene	16.76	105	224525	0.771 ppbv #	67

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

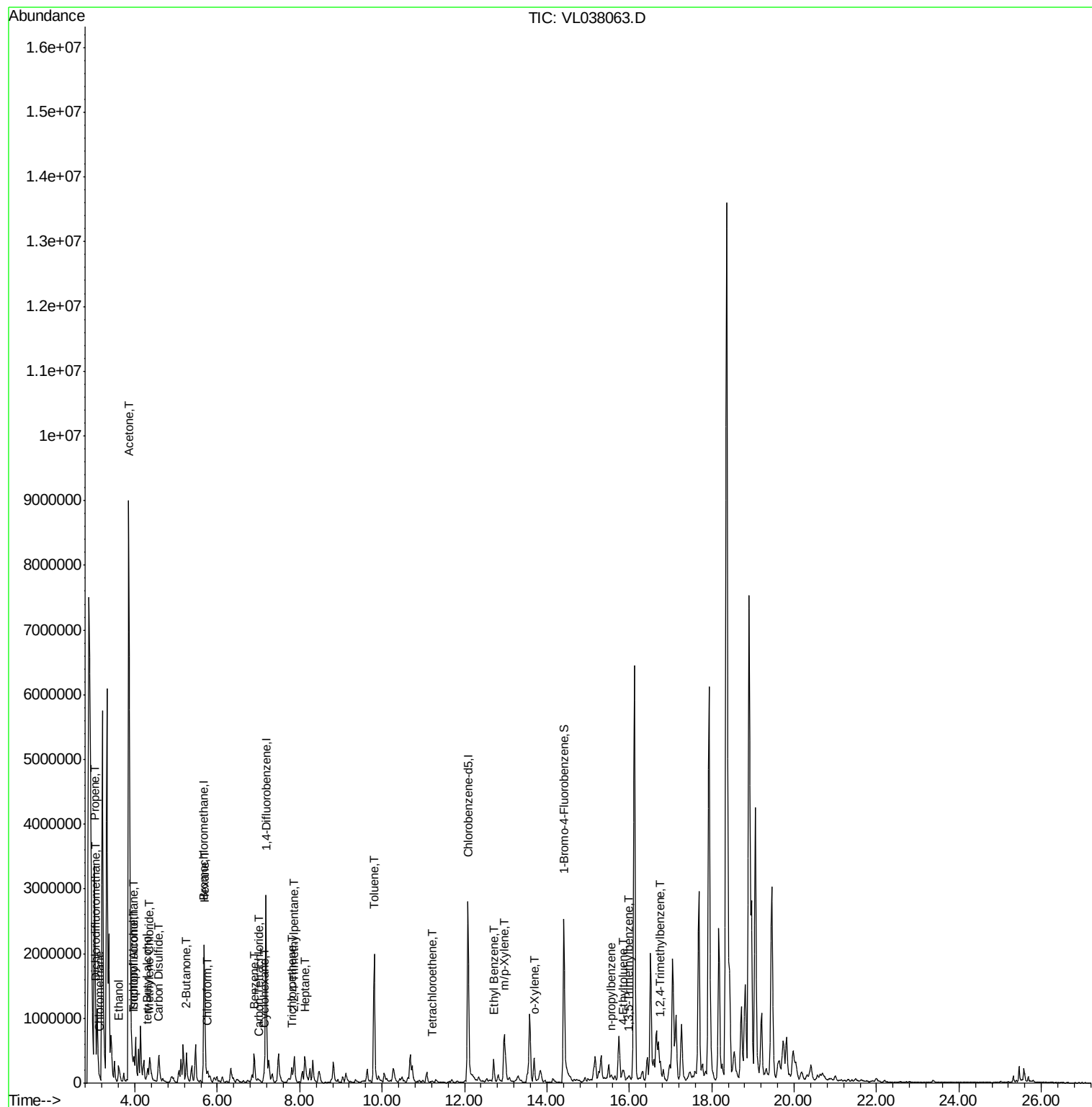
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
Data File : VL038063.D
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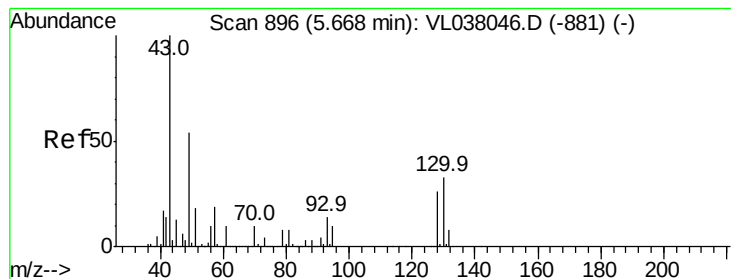
Instrument :
MSVOA_L
ClientSampleId :
15-JOHNUP

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Quant Time: Nov 19 08:03:48 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821
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Supervised By :Mahesh Dadoda 11/29/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 18 Nov 2021 21:07

Tot Ion:

Ion Ratio

49 100

128 50.

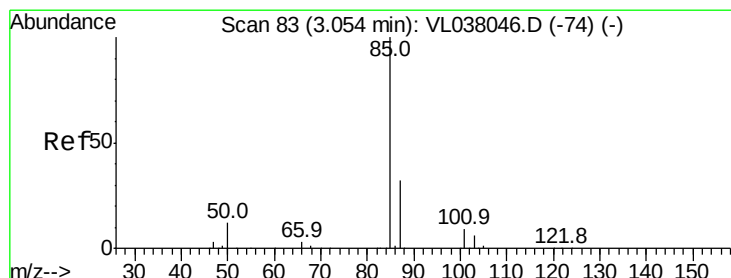
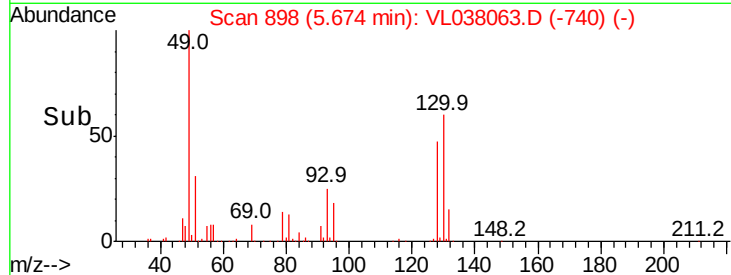
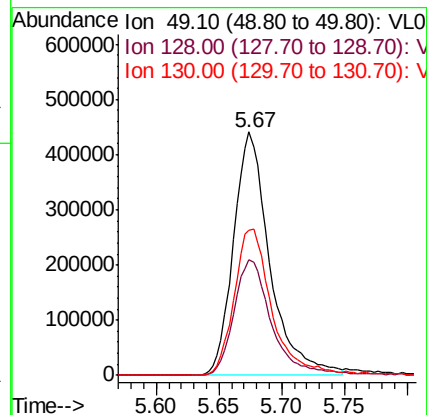
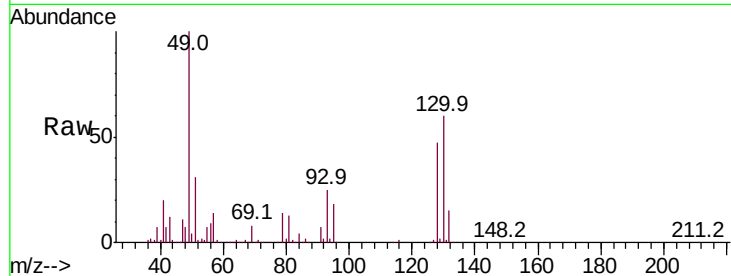
130 63.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#2

Dichlorodifluoromethane

Concen: 0.201 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL038063.D

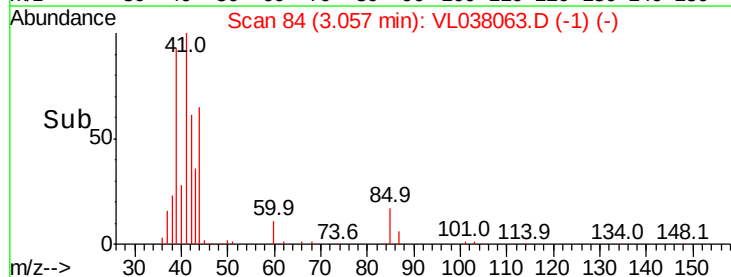
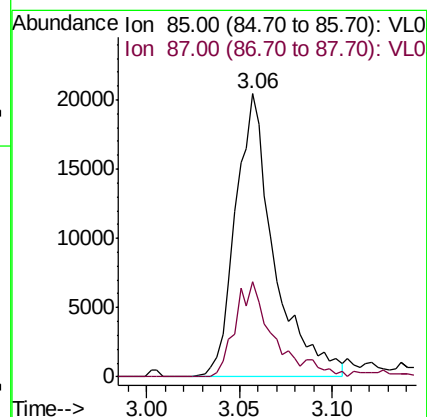
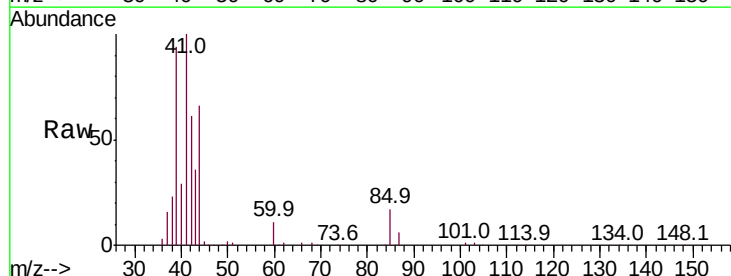
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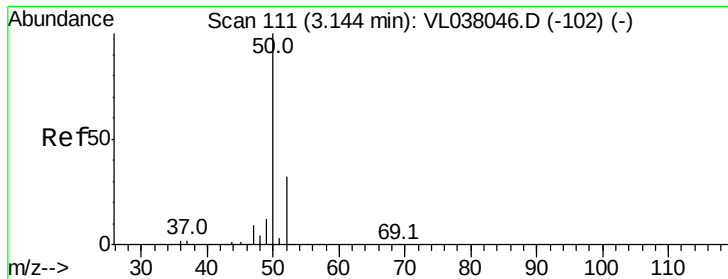
Tgt Ion: 85 Resp: 29526

Ion Ratio Lower Upper

85 100

87 33.5 25.8 38.6





#4

Chloromethane

Concen: 0.426 ppbv

RT: 3.15 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 18 Nov 2021 21:07

Tot Ion:

Ion Ratio

50 100

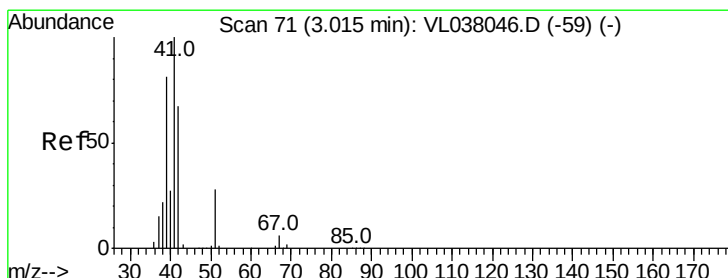
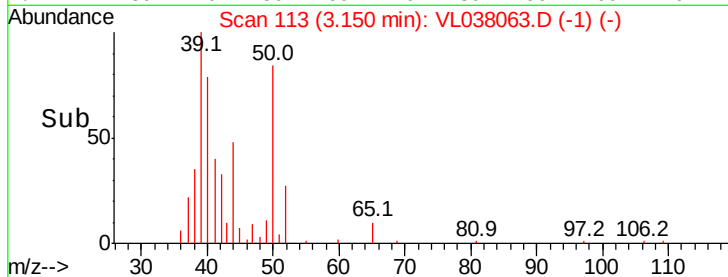
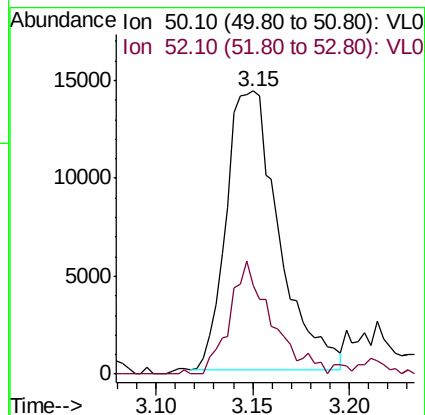
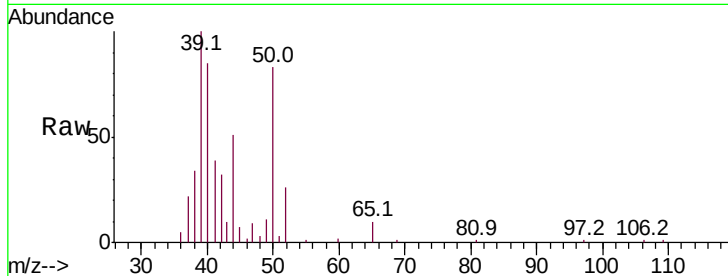
52 32.

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Reviewed By :Semsettin Yesilyurt 11/25/2021

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#9

Propene

Concen: 27.762 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL038063.D

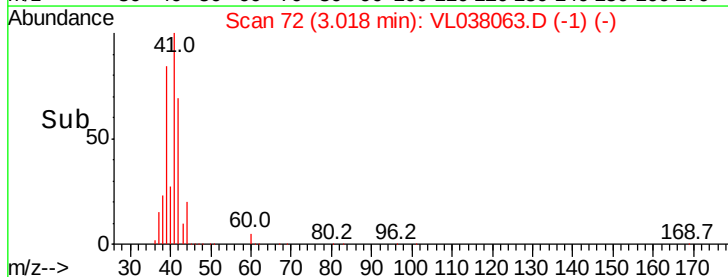
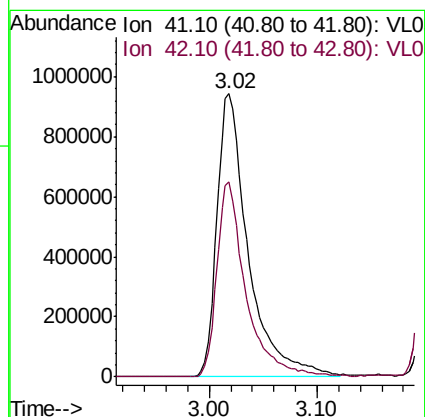
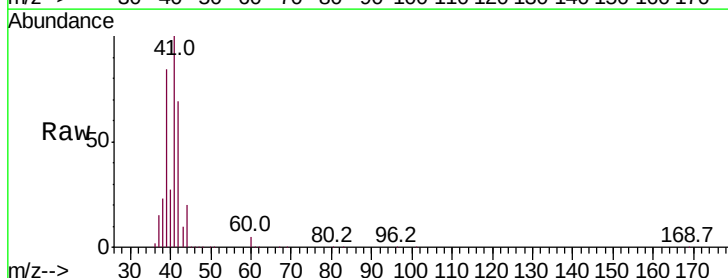
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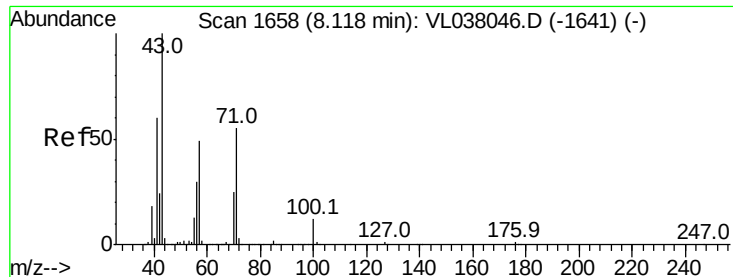
Tgt Ion: 41 Resp: 1904976

Ion Ratio Lower Upper

41 100

42 64.0 53.8 80.8



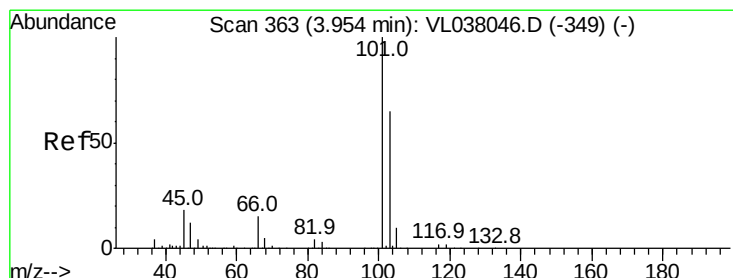
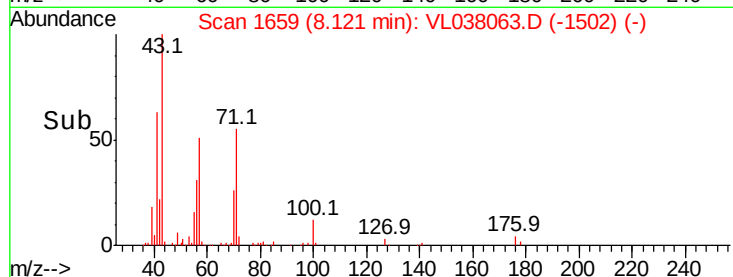
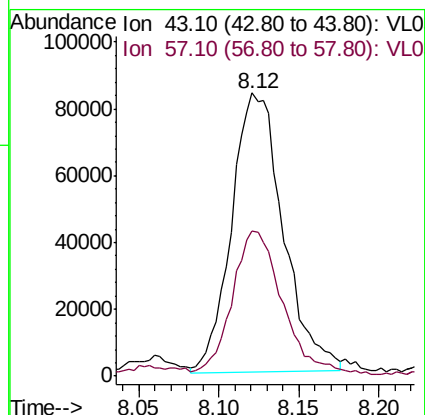
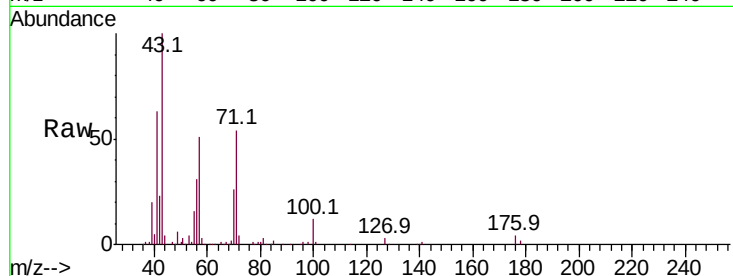


#10
 Heptane
 Concen: 1.091 ppbv
 RT: 8.12
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 18 Nov 2021 21:07

Tot Ion:
 Ion Ratio
 43 100
 57 49.

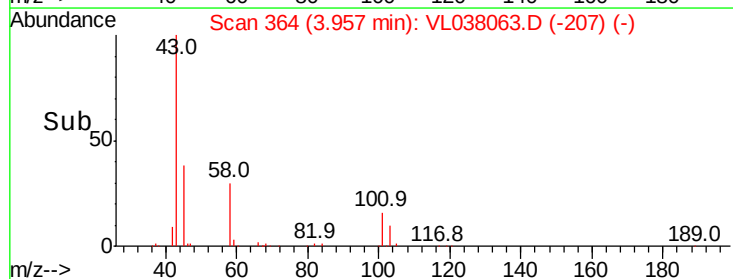
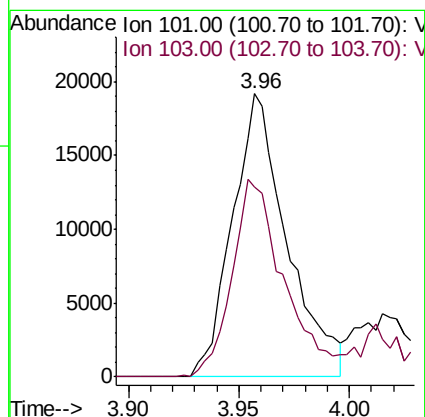
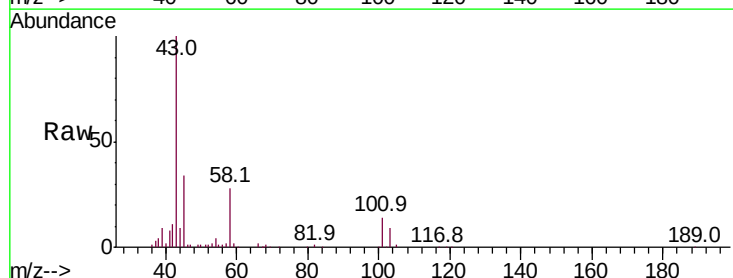
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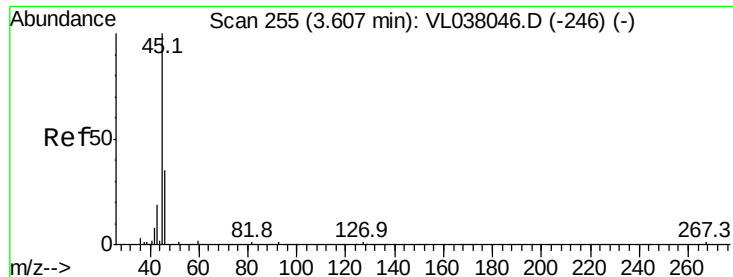
Reviewed By :Semsettin Yesilyurt 11/25/2021
 Supervised By :Mahesh Dadoda 11/29/2021



#11
 Trichlorofluoromethane
 Concen: 0.237 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VL038063.D
 Acq: 18 Nov 2021 21:07

Tgt Ion:101 Resp: 33035
 Ion Ratio Lower Upper
 101 100
 103 67.1 51.8 77.6



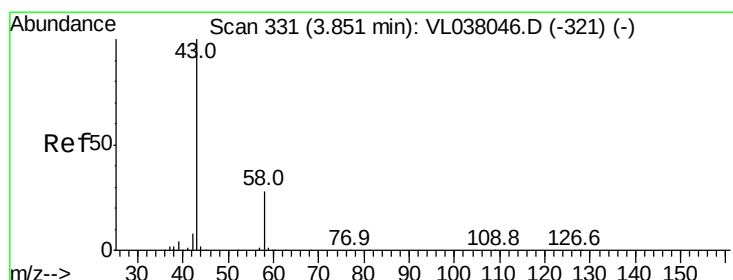
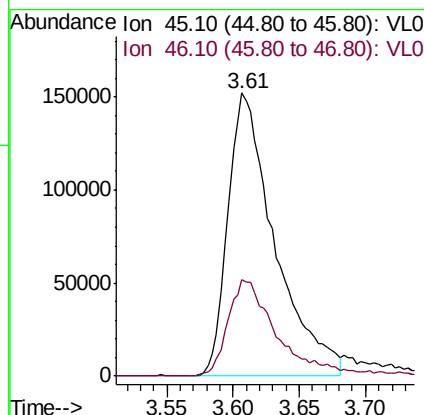
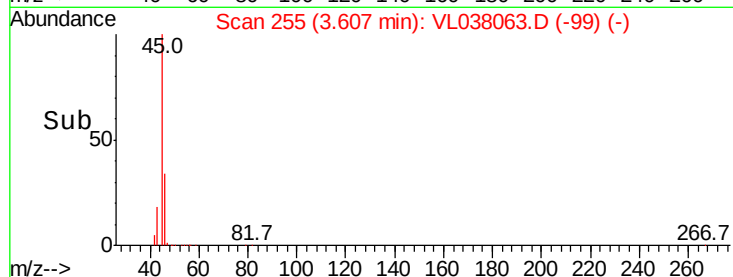
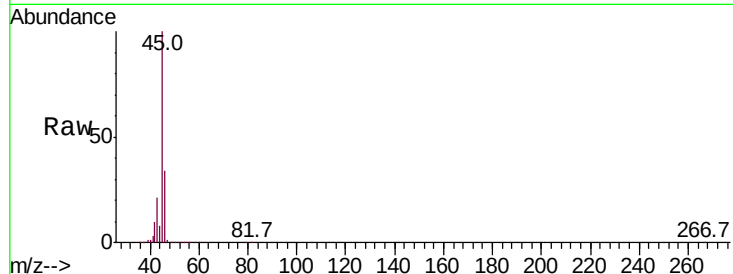


#13
Ethanol
Concen: 56.495 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 21:07

Tot Ion:
Ion Ratio
45 100
46 36.

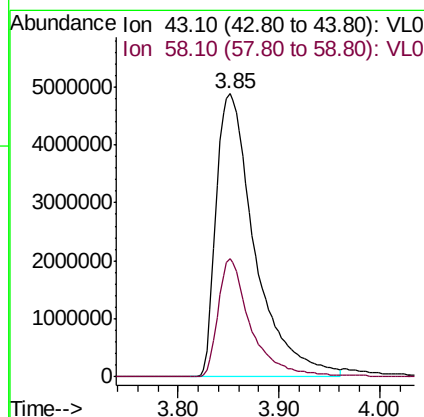
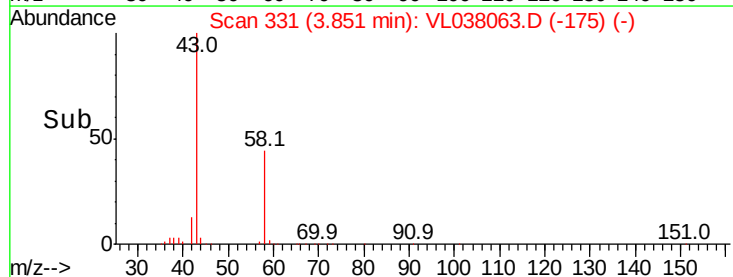
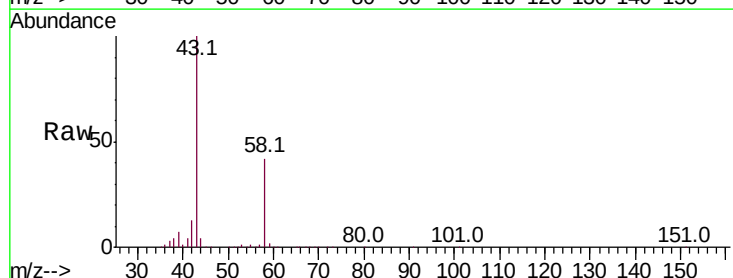
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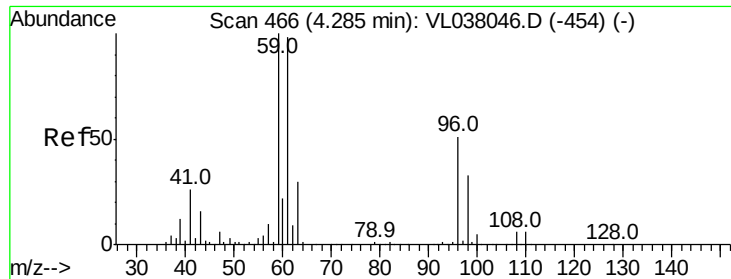
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#15
Acetone
Concen: 170.404 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL038063.D
Acq: 18 Nov 2021 21:07

Tgt Ion: 43 Resp:13107958
Ion Ratio Lower Upper
43 100
58 35.9 22.4 33.6#





#17

tert-Butyl alcohol

Concen: 0.999 ppbv m

RT: 4.30 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 18 Nov 2021 21:07

Tot Ion:

Ion Ratio

59 100

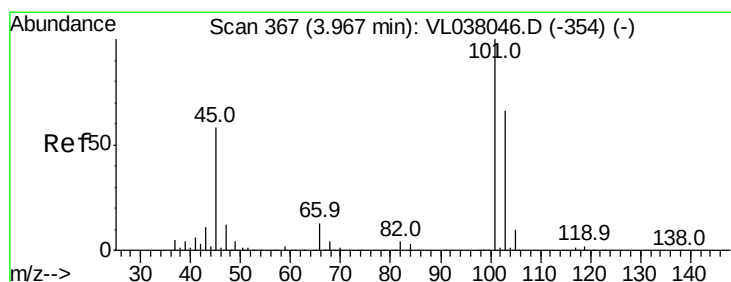
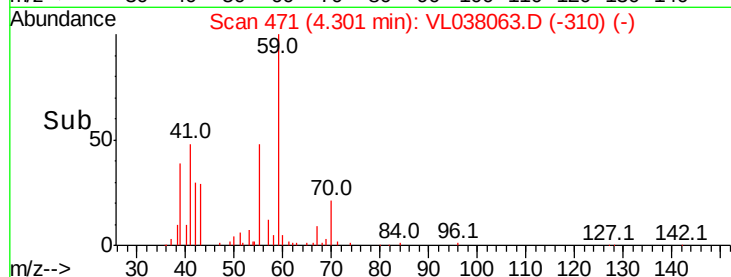
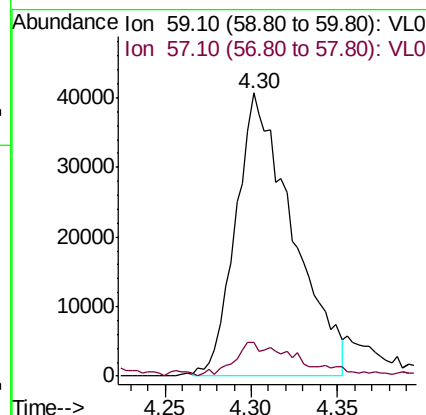
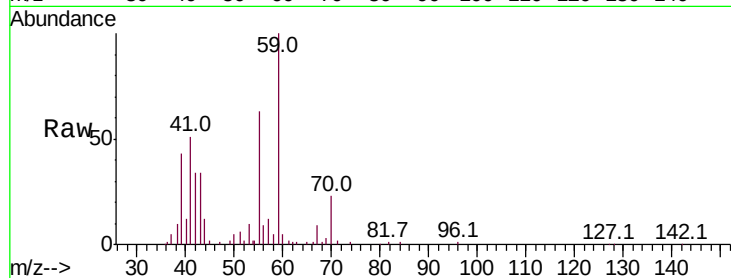
57 14.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#19

Isopropyl Alcohol

Concen: 6.015 ppbv m

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL038063.D

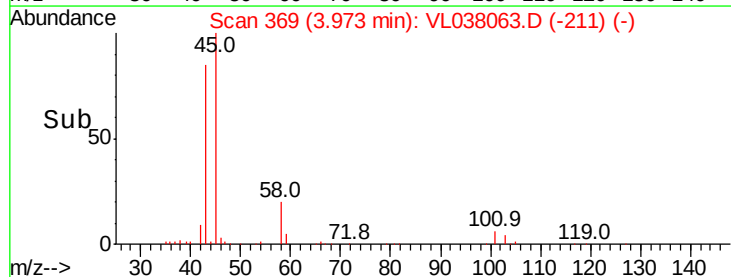
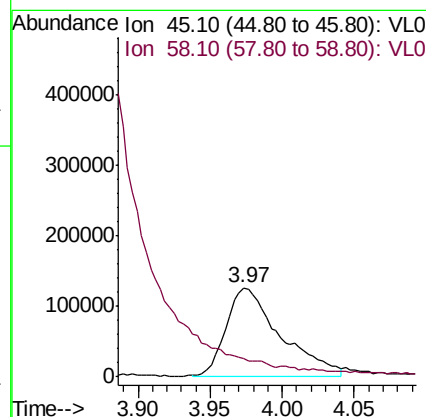
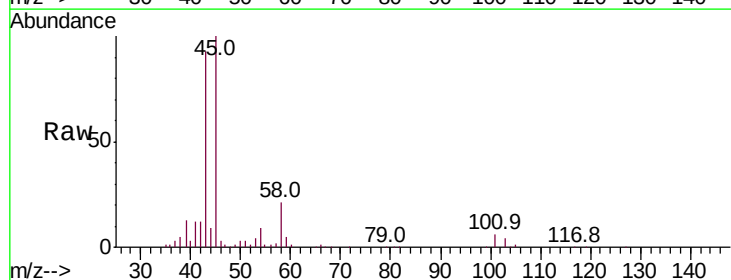
Acq: 18 Nov 2021 21:07

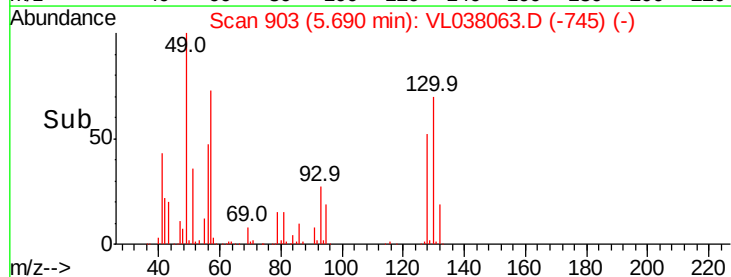
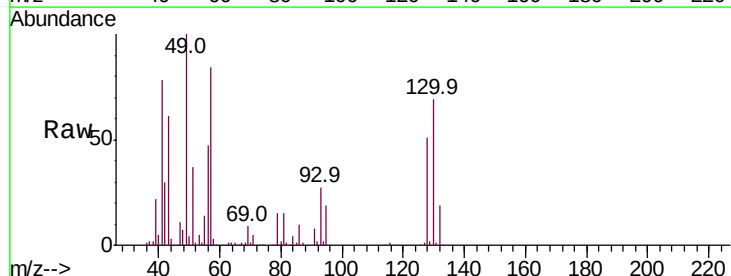
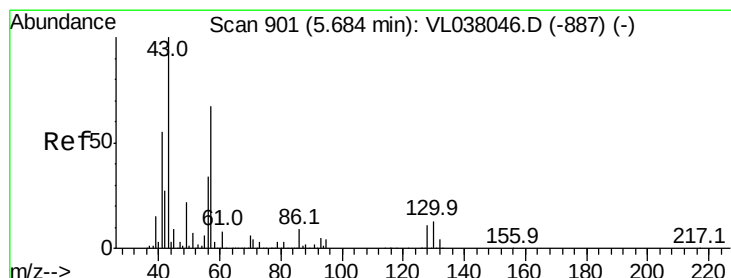
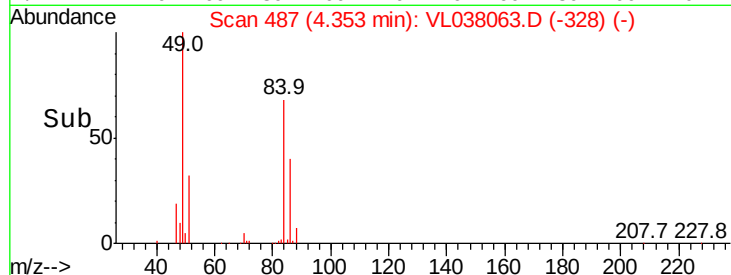
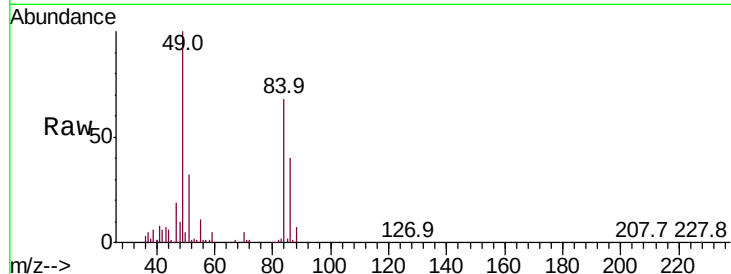
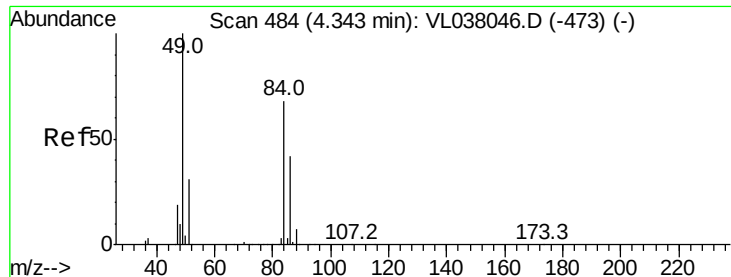
Tgt Ion: 45 Resp: 334330

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#



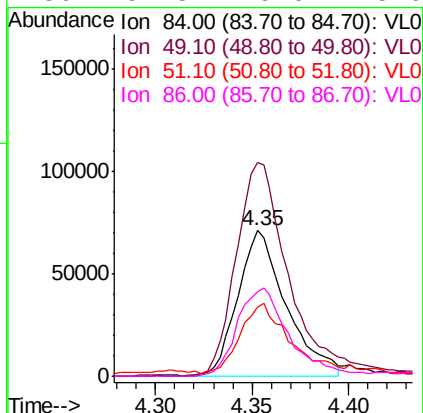


#20
Methylene Chloride
Concen: 2.887 ppbv
RT: 4.35
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 18 Nov 2021 21:07

Tot Ion:
Ion Ratio
84 100
49 145.
51 44.
86 57.8 49.0 73.6

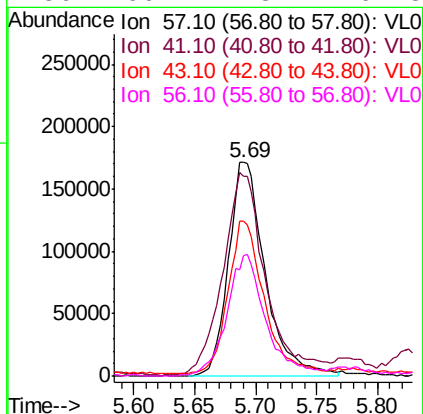
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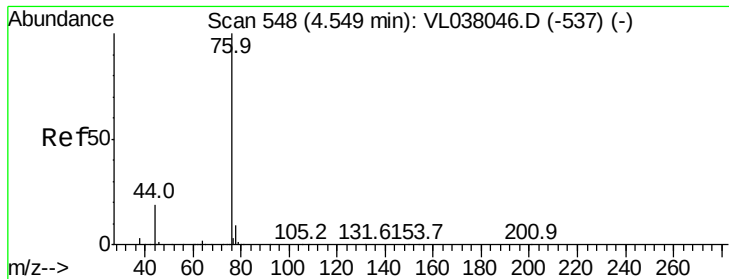
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#26
Hexane
Concen: 2.910 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL038063.D
Acq: 18 Nov 2021 21:07

Tgt Ion: 57 Resp: 358547
Ion Ratio Lower Upper
57 100
41 111.4 71.4 107.2#
43 70.9 174.6 261.8#
56 60.7 43.2 64.8





#27

Carbon Disulfide

Concen: 1.787 ppbv

RT: 4.56 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 15-JOHNUP

Acq: 18 Nov 2021 21:07

Tot Ion:

Ion Ratio

76 100

44 19.

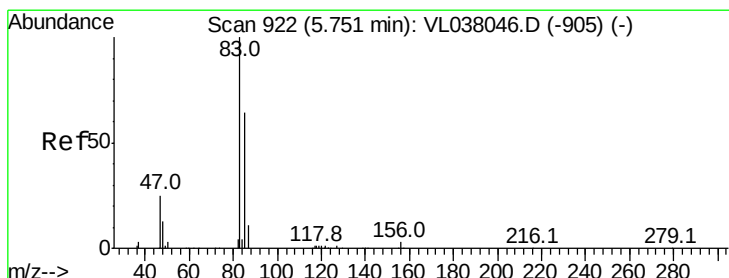
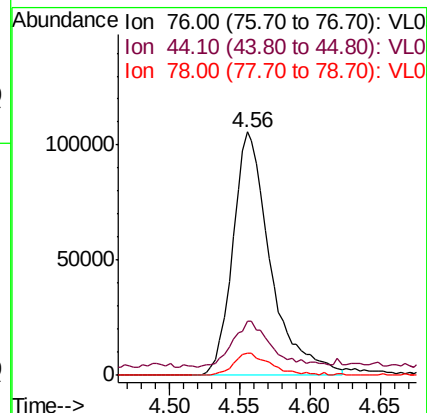
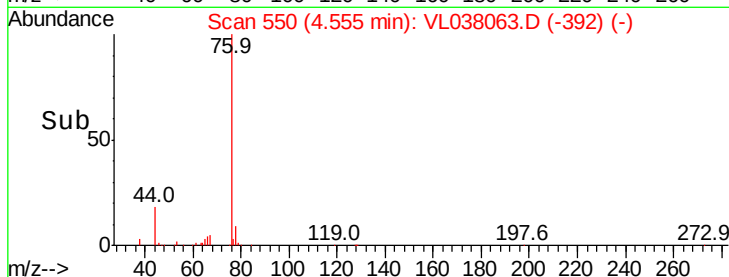
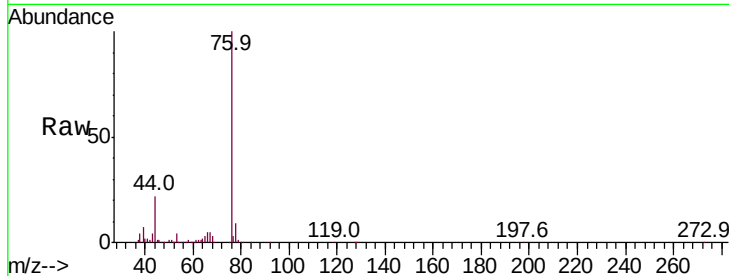
78 9.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#29

Chloroform

Concen: 0.297 ppbv

RT: 5.76 min Scan# 924

Delta R.T. 0.01 min

Lab File: VL038063.D

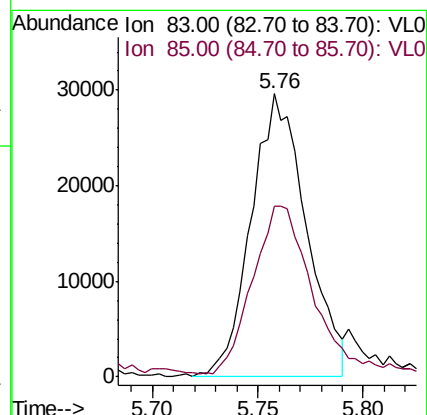
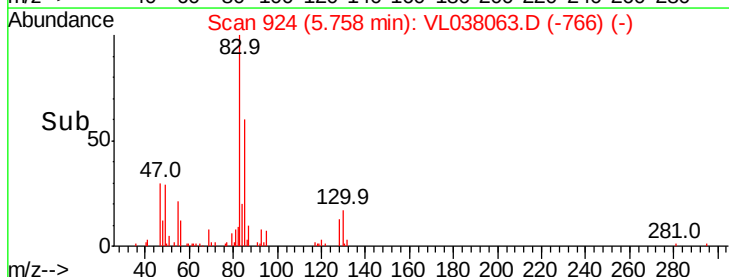
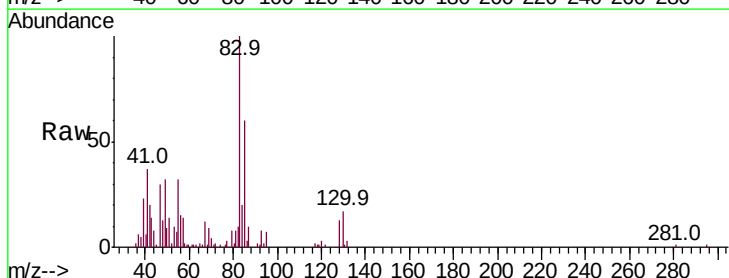
Acq: 18 Nov 2021 21:07

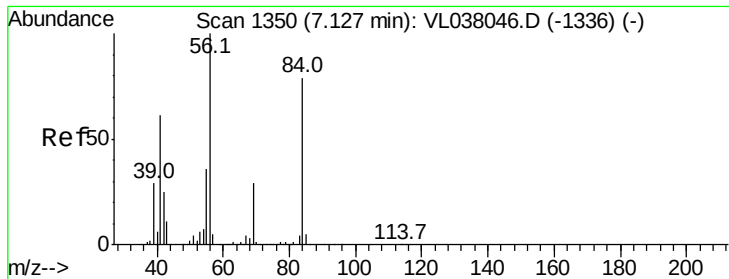
Tgt Ion: 83 Resp: 53855

Ion Ratio Lower Upper

83 100

85 58.6 51.0 76.6



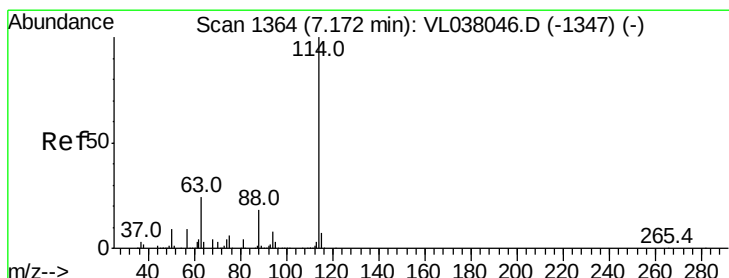
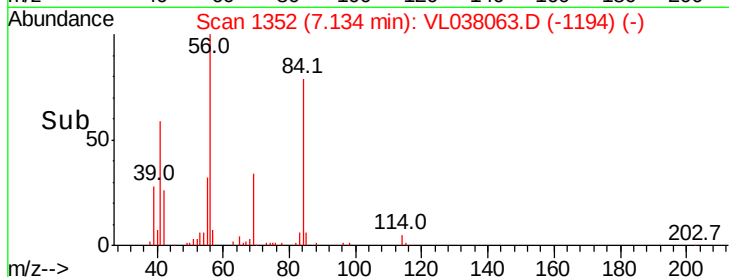
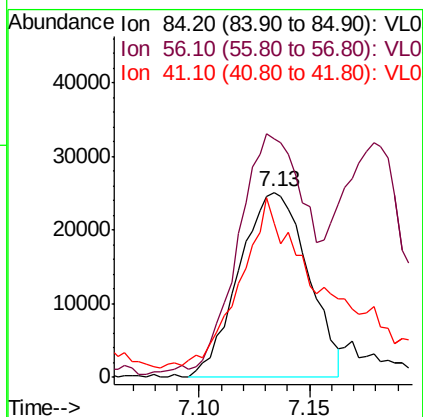
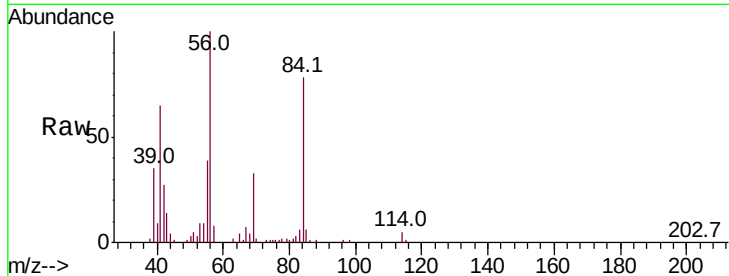


#30
Cvclohexane
Concen: 0.486 ppbv
RT: 7.13 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 18 Nov 2021 21:07

Tot Ion:
Ion Ratio
84 100
56 131.
41 115.

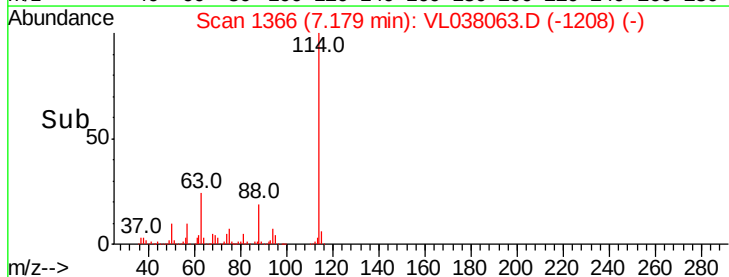
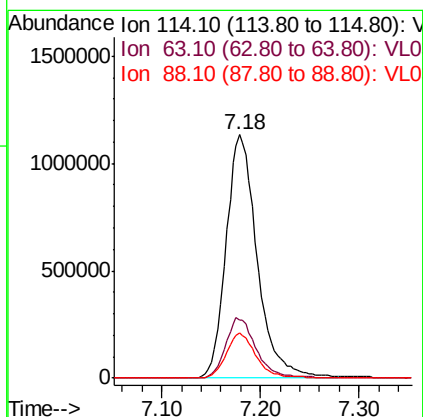
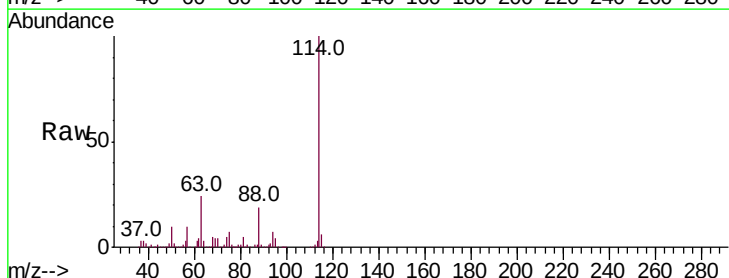
Manual Integrations
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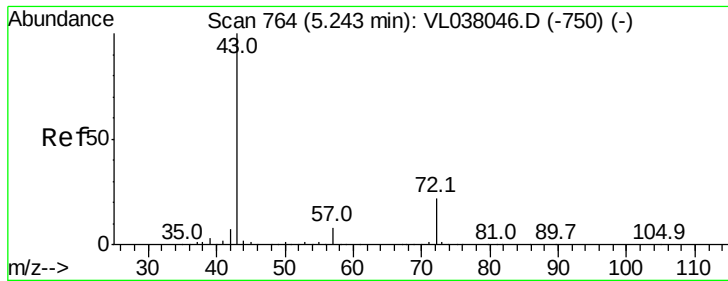
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VL038063.D
Acq: 18 Nov 2021 21:07

Tgt Ion:114 Resp: 2502654
Ion Ratio Lower Upper
114 100
63 24.5 19.7 29.5
88 18.0 14.4 21.6



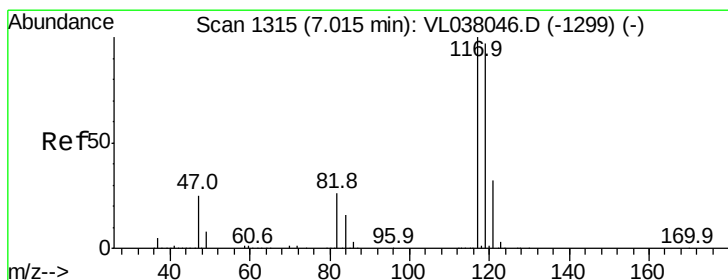
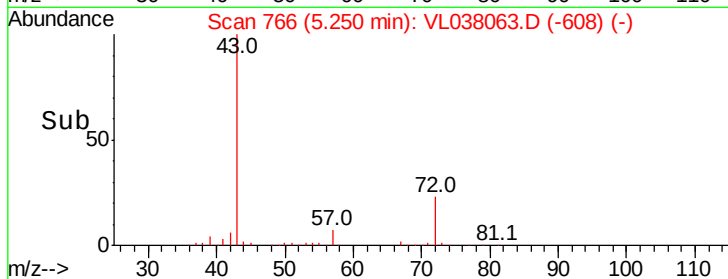
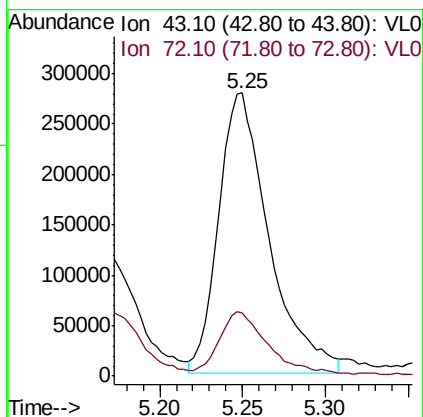
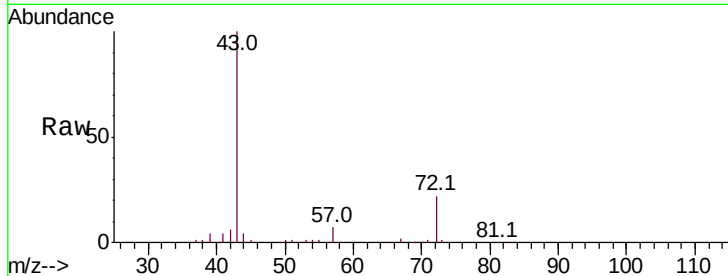


#34
2-Butanone
Concen: 5.811 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 21:07

Tot Ion:
Ion Ratio
43 100
72 24.

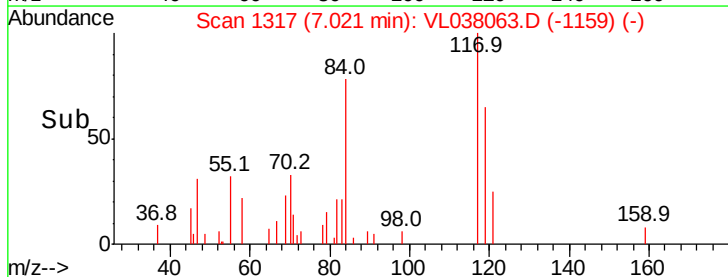
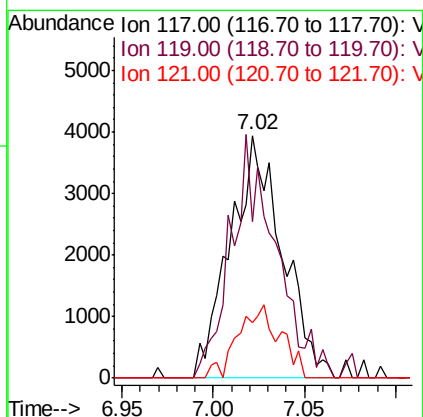
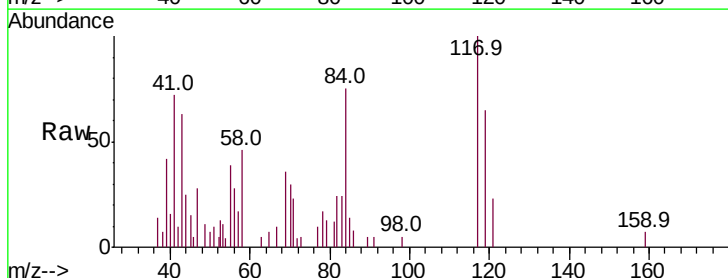
Manual Integrations
APPROVED

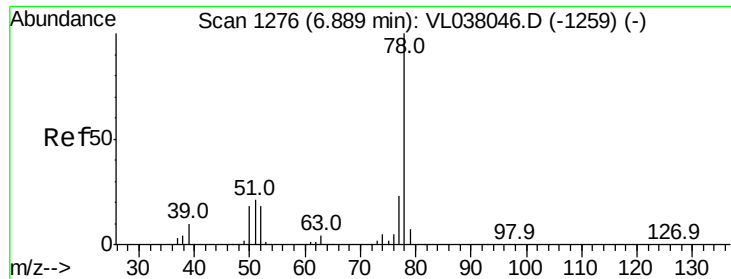
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#35
Carbon Tetrachloride
Concen: 0.045 ppbv m
RT: 7.02 min Scan# 1317
Delta R.T. 0.01 min
Lab File: VL038063.D
Acq: 18 Nov 2021 21:07

Tgt Ion:117 Resp: 7832
Ion Ratio Lower Upper
117 100
119 64.8 77.7 116.5#
121 22.7 25.6 38.4#



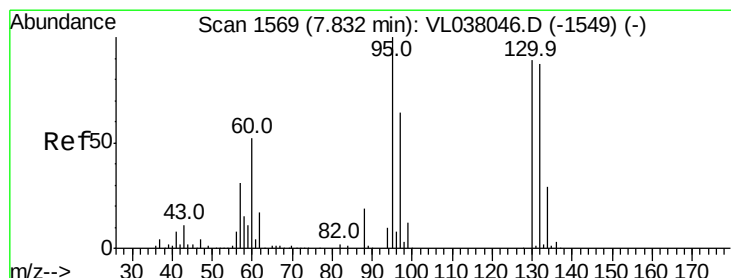
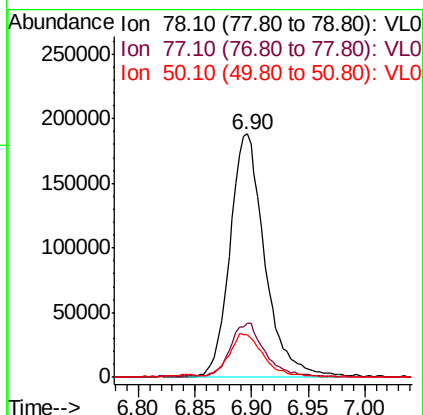
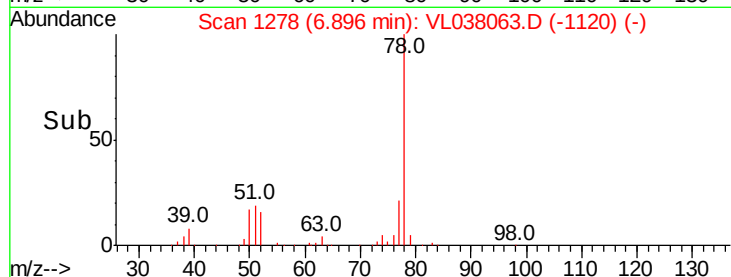
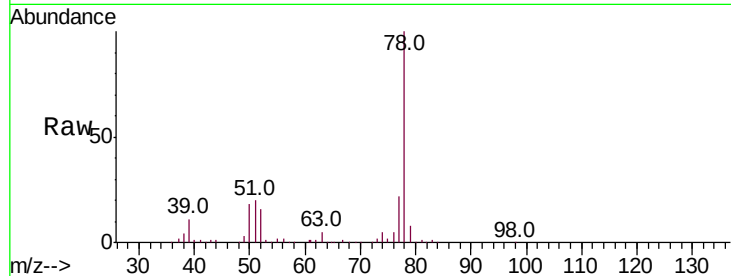


#36
Benzene
Concen: 1.614 ppbv
RT: 6.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 21:07

Tot Ion:
Ion Ratio
78 100
77 22.
50 17.

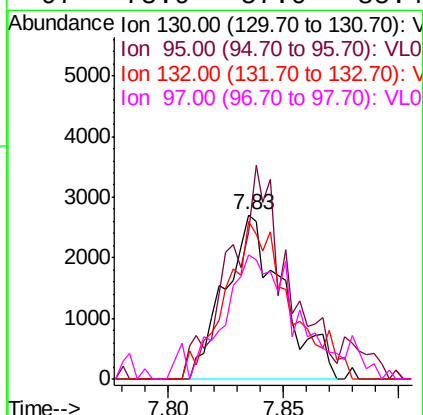
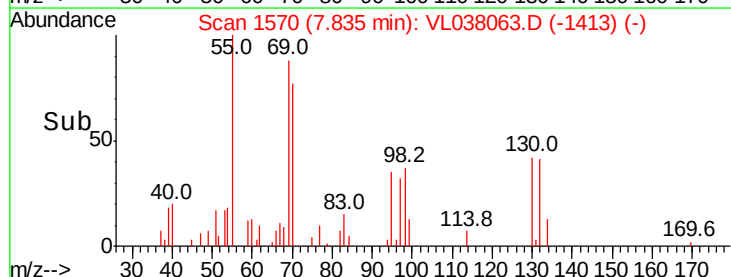
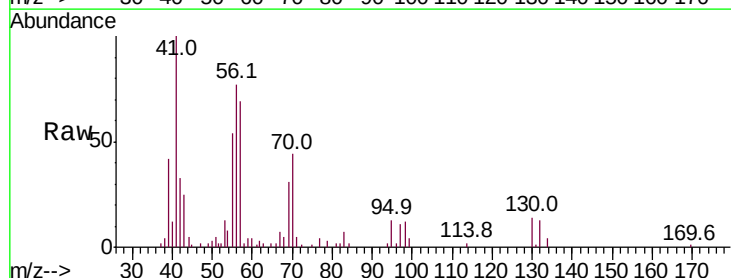
Manual Integrations
APPROVED

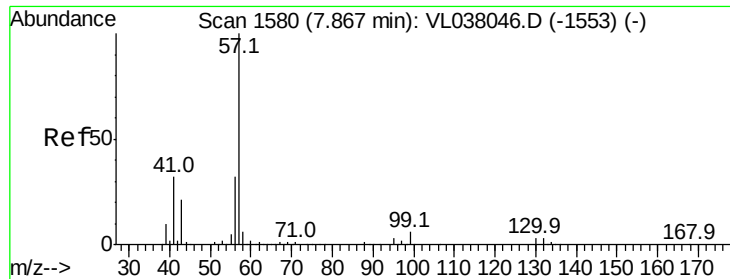
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#38
Trichloroethene
Concen: 0.050 ppbv m
RT: 7.83 min Scan# 1570
Delta R.T. 0.00 min
Lab File: VL038063.D
Acq: 18 Nov 2021 21:07

Tgt Ion:130 Resp: 4730
Ion Ratio Lower Upper
130 100
95 90.0 89.4 134.2
132 95.8 78.2 117.2
97 75.9 57.0 85.4



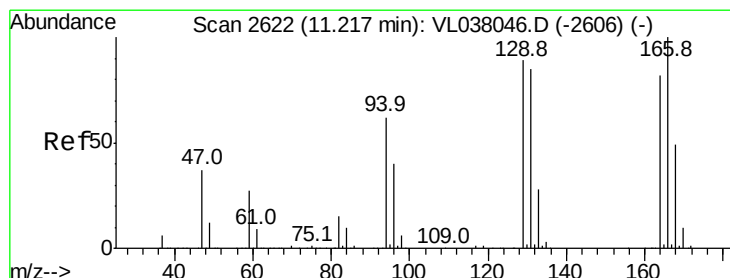
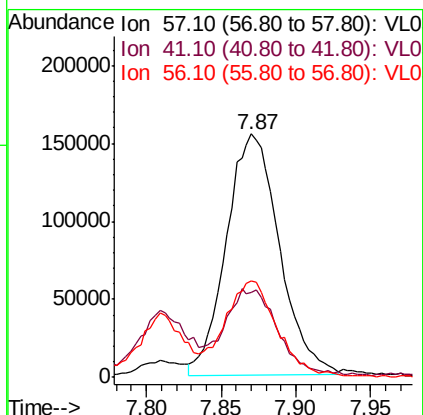
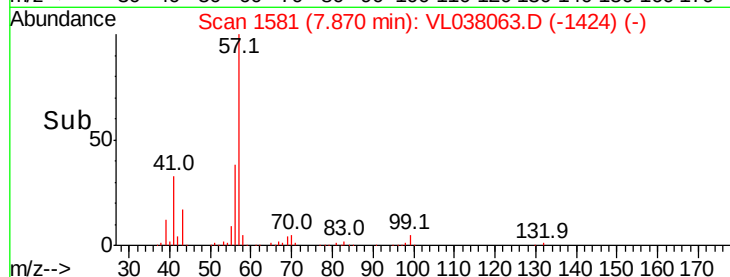
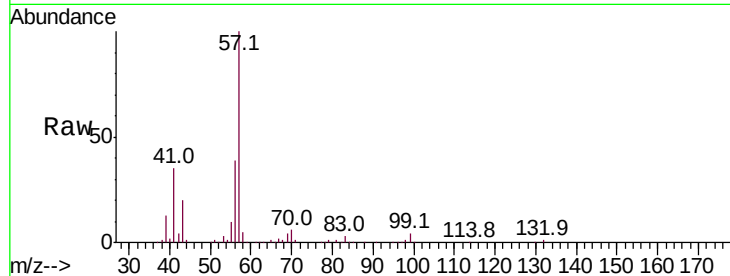


#44
2,2,4-Trimethylpentane
Concen: 0.915 ppbv
RT: 7.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 21:07

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

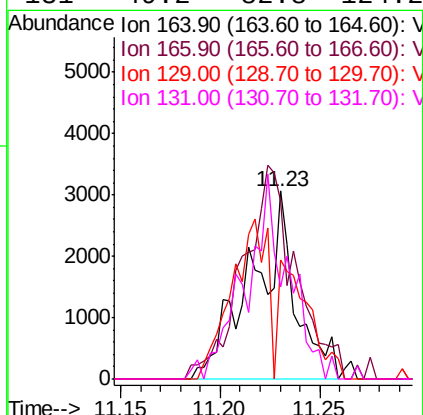
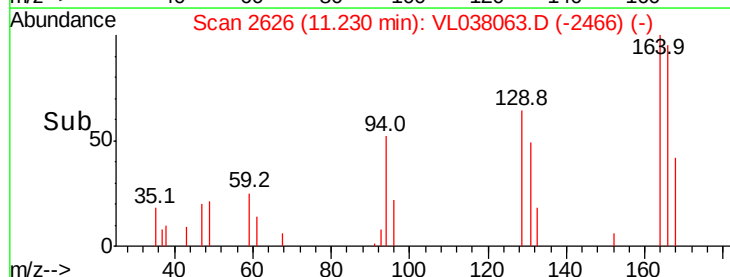
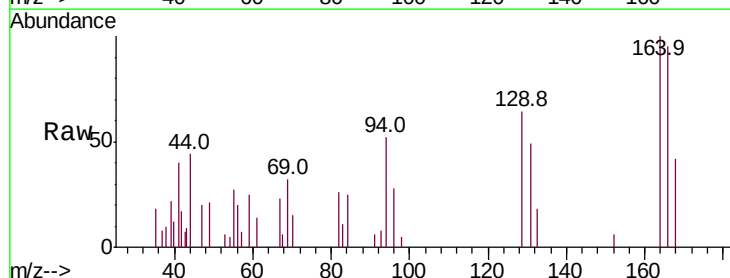
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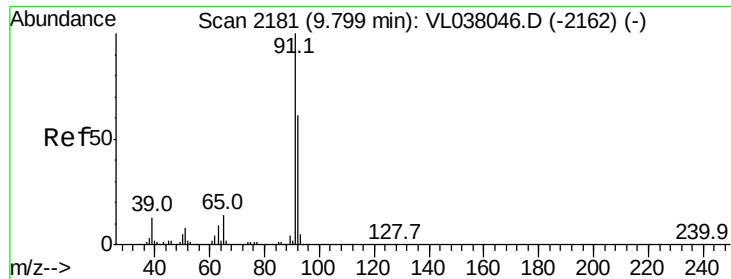
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#52
Tetrachloroethene
Concen: 0.051 ppbv m
RT: 11.23 min Scan# 2626
Delta R.T. 0.01 min
Lab File: VL038063.D
Acq: 18 Nov 2021 21:07

Tgt Ion:164 Resp: 4747
Ion Ratio Lower Upper
164 100
166 94.8 97.2 145.8#
129 63.7 86.9 130.3#
131 49.2 82.8 124.2#





#53

Toluene

Concen: 5.802 ppbv

RT: 9.80

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

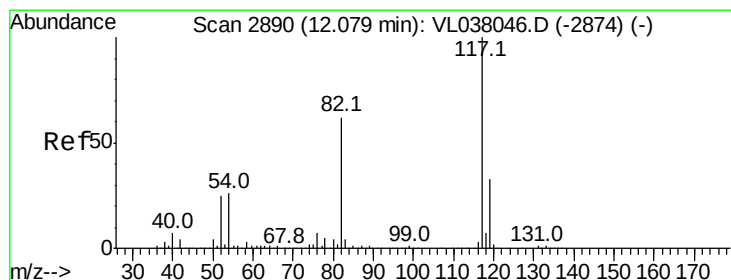
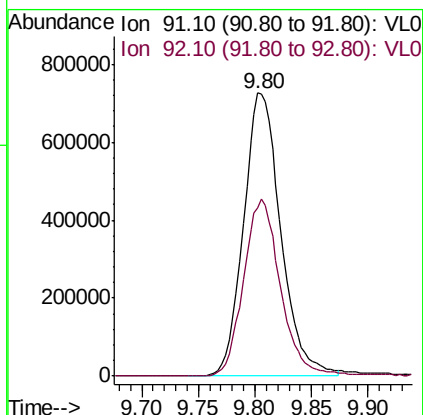
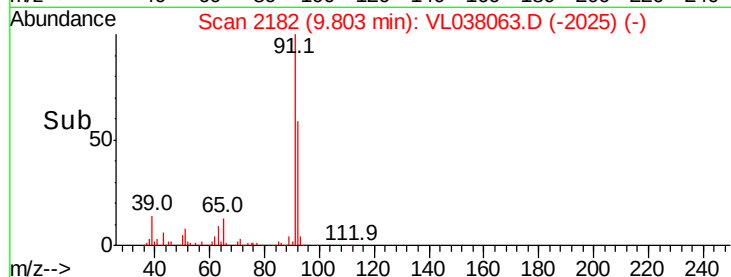
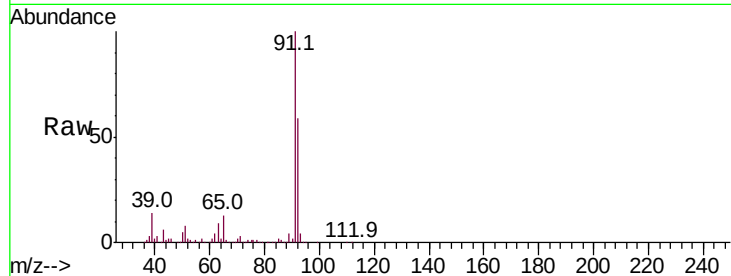
Acq: 18 Nov 2021 21:07

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.00 min

Lab File: VL038063.D

Acq: 18 Nov 2021 21:07

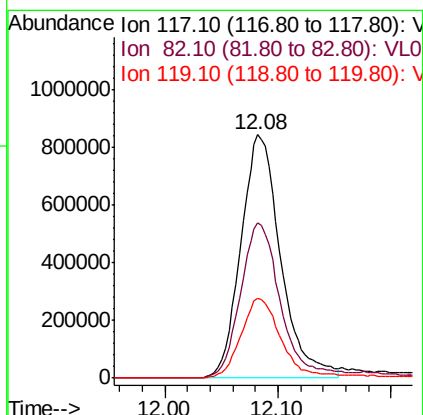
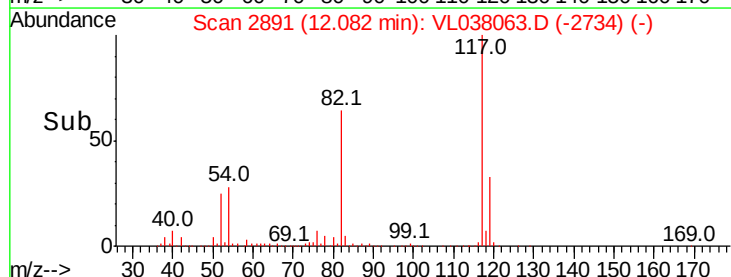
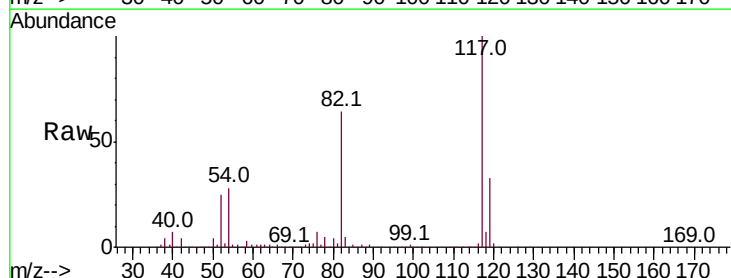
Tgt Ion:117 Resp: 2068774

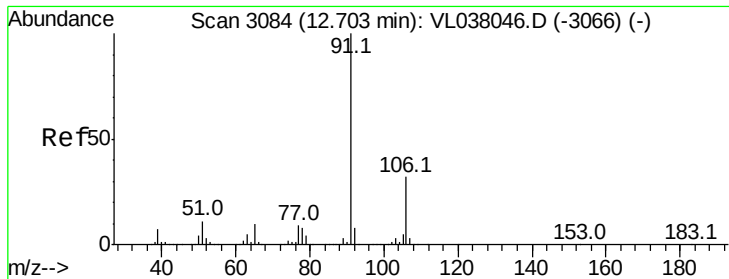
Ion Ratio Lower Upper

117 100

82 68.6 52.8 79.2

119 34.4 26.8 40.2



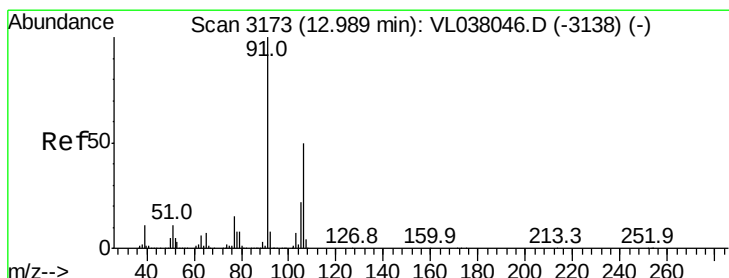
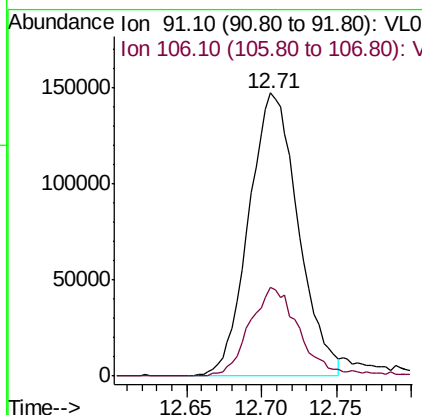
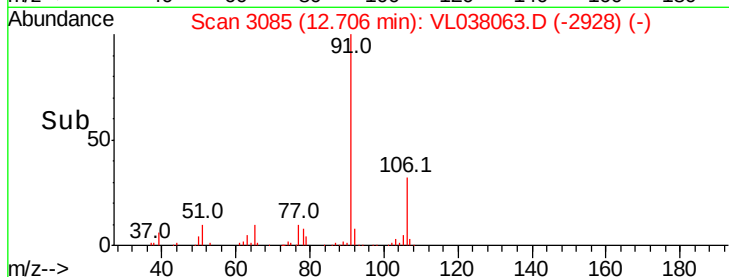
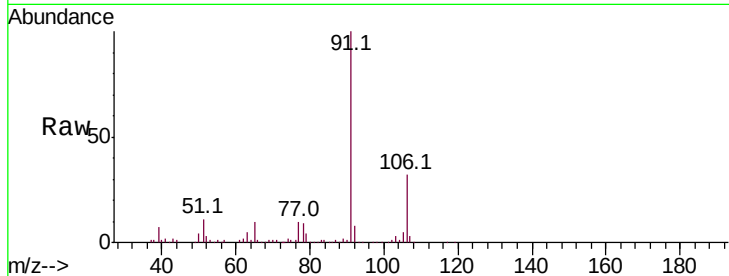


#58
Ethyl Benzene
Concen: 0.991 ppbv
RT: 12.71 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 18 Nov 2021 21:07

Tot Ion:
Ion Ratio
91 100
106 31.

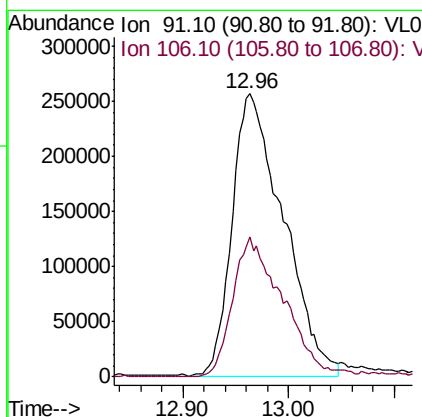
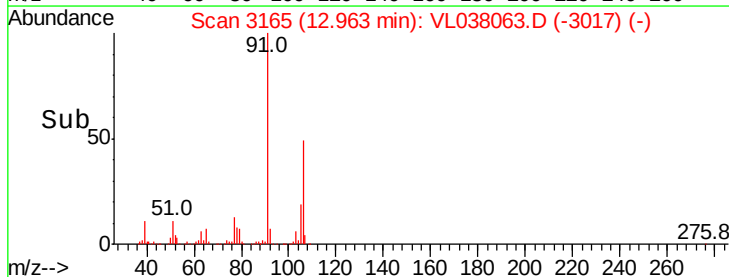
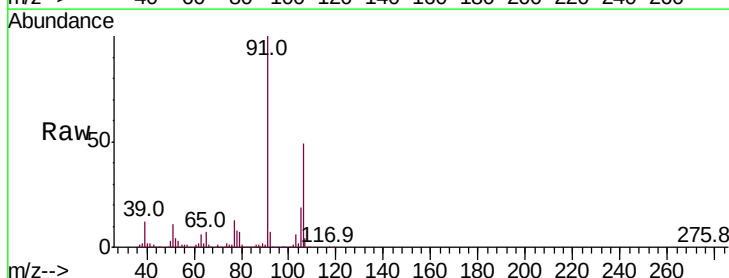
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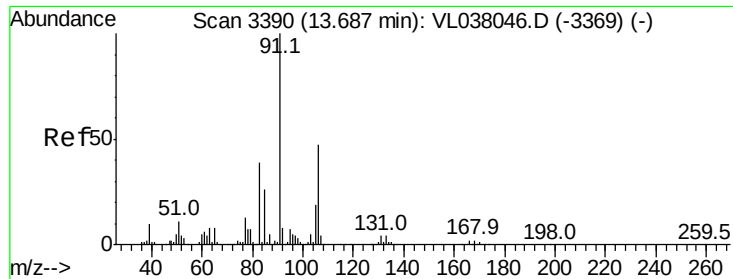
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#59
m/p-Xylene
Concen: 2.987 ppbv
RT: 12.96 min Scan# 3165
Delta R.T. -0.03 min
Lab File: VL038063.D
Acq: 18 Nov 2021 21:07

Tgt Ion: 91 Resp: 859839
Ion Ratio Lower Upper
91 100
106 51.0 38.1 57.1





#60

o-Xylene

Concen: 1.174 ppbv

RT: 13.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 18 Nov 2021 21:07

Tot Ion:

Ion Ratio

91 100

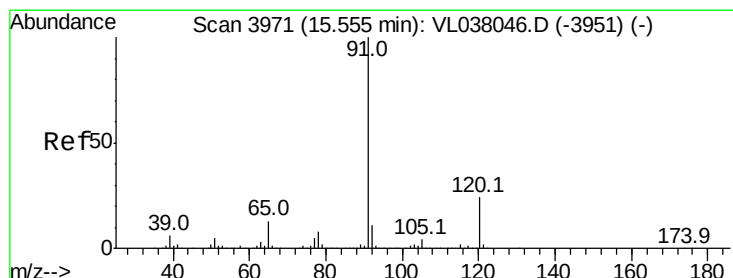
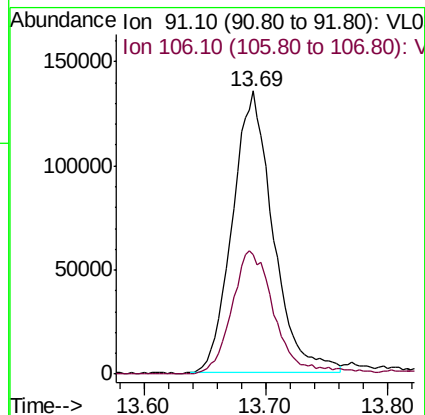
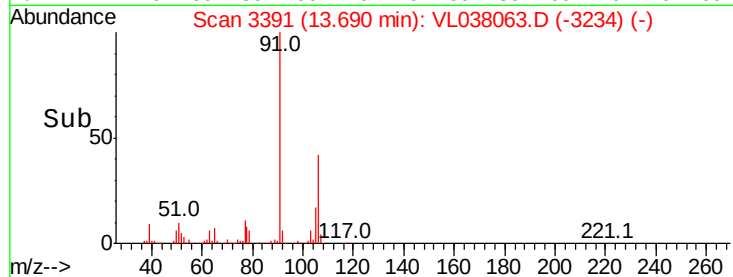
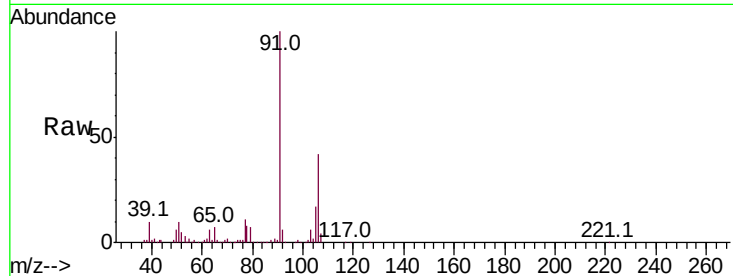
106 46.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#64

n-propylbenzene

Concen: 0.202 ppbv m

RT: 15.56 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VL038063.D

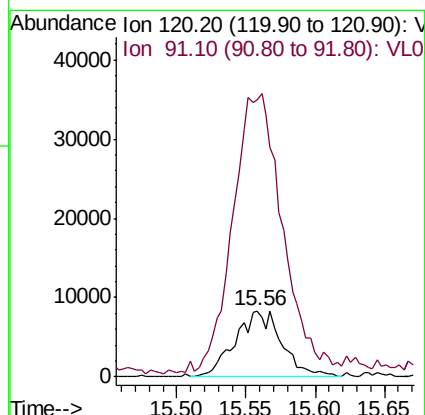
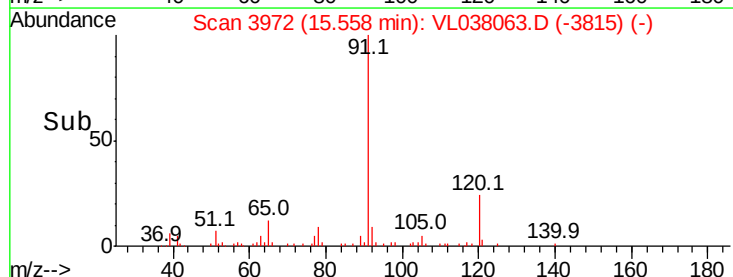
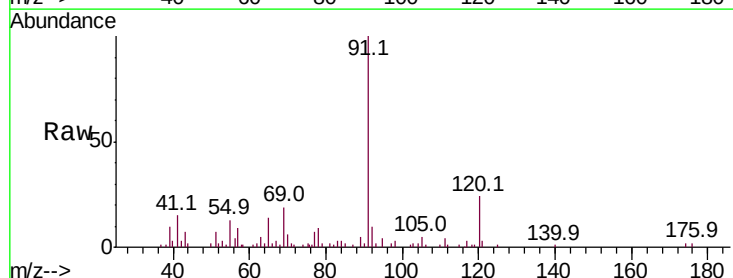
Acq: 18 Nov 2021 21:07

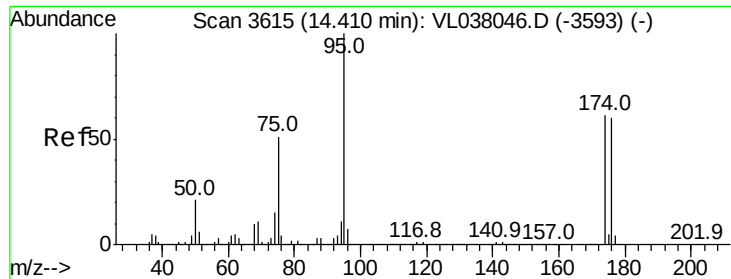
Tgt Ion:120 Resp: 19507

Ion Ratio Lower Upper

120 100

91 467.8 371.7 557.5



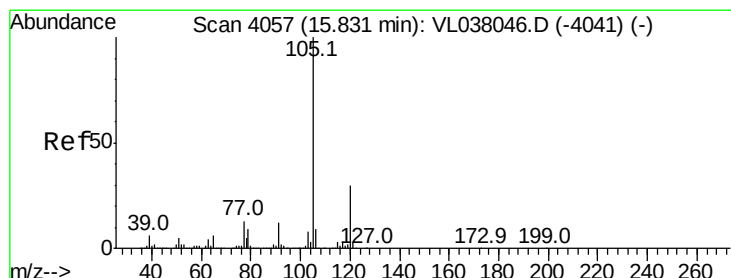
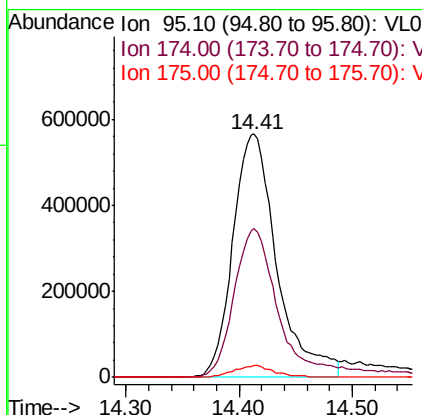
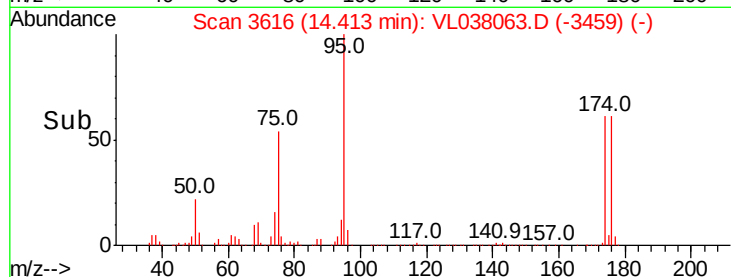
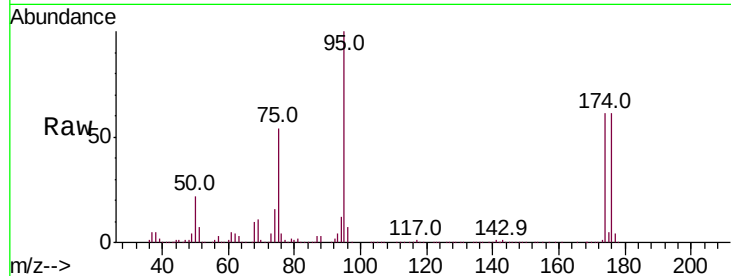


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.250 ppbv
 RT: 14.41 min
 Delta R.T.: 0.01 min
 Lab File: VL038046.D
 Acq: 18 Nov 2021 21:07

Tot Ion:
 Ion Ratio
 95 100
 174 65.
 175 4.

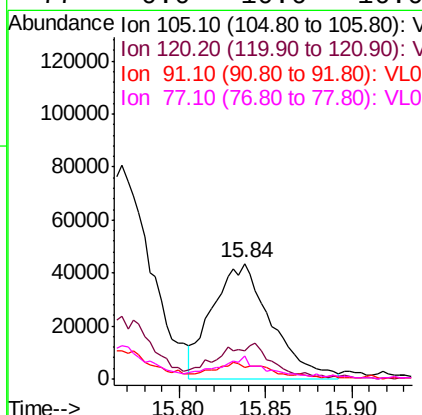
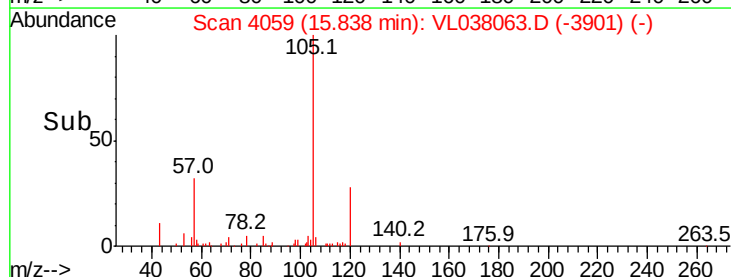
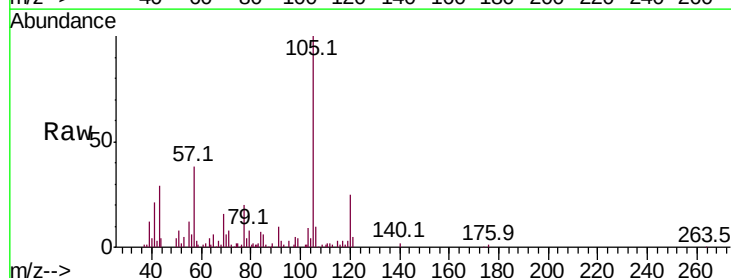
Manual Integrations
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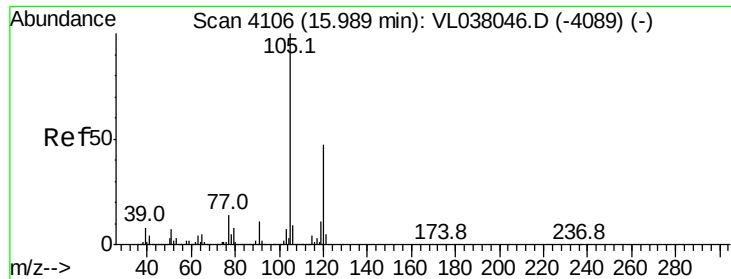
Reviewed By : Semsettin Yesilyurt 11/25/2021
 Supervised By : Mahesh Dadoda 11/29/2021



#72
 4-Ethyltoluene
 Concen: 0.335 ppbv m
 RT: 15.84 min Scan# 4059
 Delta R.T.: 0.01 min
 Lab File: VL038063.D
 Acq: 18 Nov 2021 21:07

Tgt Ion: 105 Resp: 103821
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.1 37.7#
 91 12.9 9.7 14.5
 77 0.0 10.6 16.0#



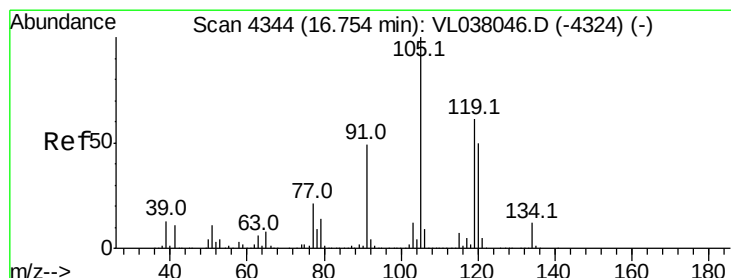
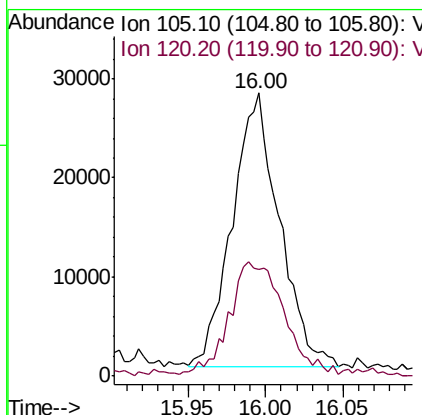
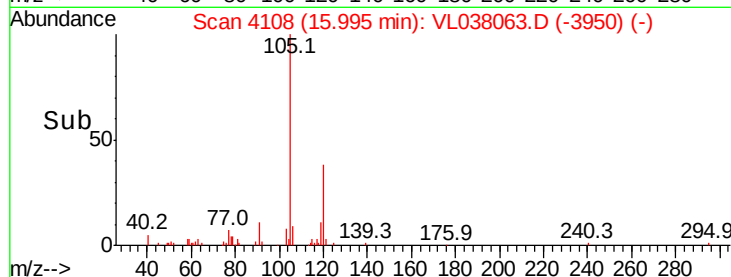
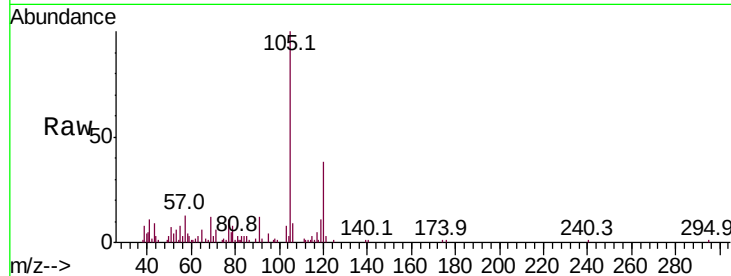


#73
 1,3,5-Trimethylbenzene
 Concen: 0.207 ppbv
 RT: 16.00 min
 Instrument: MSVOA_1
 Delta R.T.: 0.00 min
 Lab File: ClientSampleId : 15-JOHN
 Acq: 18 Nov 2021 21:07

Tot Ion:1
 Ion Rati
 105 100
 120 38.

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



#74
 1,2,4-Trimethylbenzene
 Concen: 0.771 ppbv
 RT: 16.76 min Scan# 4345
 Delta R.T.: 0.00 min
 Lab File: VL038063.D
 Acq: 18 Nov 2021 21:07

Tgt Ion:105 Resp: 224525
 Ion Ratio Lower Upper
 105 100
 120 41.5 40.1 60.1
 91 10.1 39.8 59.8#
 77 11.0 16.6 25.0#

