

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038097.D
 Acq On : 23 Nov 2021 13:25
 Operator : SY/AP
 Sample : M4805-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-PURE-BARRE

Manual Integrations
 APPROVED

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

Quant Time: Nov 28 11:48:37 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	978253	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2704567	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2363124	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1804805	10.59	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.90%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.06	85	31832	0.197	ppbv	100
4) Chloromethane	3.14	50	35779m	0.512	ppbv	
9) Propene	3.03	41	527369m	6.970	ppbv	
10) Heptane	8.12	43	79259m	0.424	ppbv	
11) Trichlorofluoromethane	3.95	101	410814	2.673	ppbv	98
13) Ethanol	3.64	45	21177594	2896.469	ppbv	97
15) Acetone	3.85	43	4712344	55.560	ppbv	100
19) Isopropyl Alcohol	4.00	45	7665051	125.077	ppbv #	98
20) Methylene Chloride	4.35	84	71724	1.510	ppbv	90
25) Ethyl Acetate	5.67	43	386480	1.371	ppbv	97
26) Hexane	5.69	57	129854m	0.956	ppbv	
27) Carbon Disulfide	4.56	76	82210	0.675	ppbv	94
29) Chloroform	5.75	83	47921	0.239	ppbv	88
30) Cyclohexane	7.13	84	12966m	0.105	ppbv	
34) 2-Butanone	5.24	43	329788	3.024	ppbv	100
35) Carbon Tetrachloride	7.02	117	22527m	0.119	ppbv	
36) Benzene	6.89	78	124780	0.463	ppbv	97
41) Tetrahydrofuran	6.06	42	26438m	0.391	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	201021	0.445	ppbv	91
50) 4-Methyl-2-Pentanone	8.75	43	37042m	0.224	ppbv	
52) Tetrachloroethene	11.22	164	10359m	0.104	ppbv	
53) Toluene	9.80	91	574753	1.852	ppbv	98
58) Ethyl Benzene	12.71	91	116847	0.299	ppbv #	86
59) m/p-Xylene	12.96	91	194868m	0.593	ppbv	
60) o-Xylene	13.69	91	74747m	0.245	ppbv	
61) Styrene	13.52	104	61381	0.375	ppbv	92
69) p-Isopropyltoluene	17.65	119	90122	0.217	ppbv #	93
72) 4-Ethyltoluene	15.83	105	36978m	0.105	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	70885	0.213	ppbv #	81

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

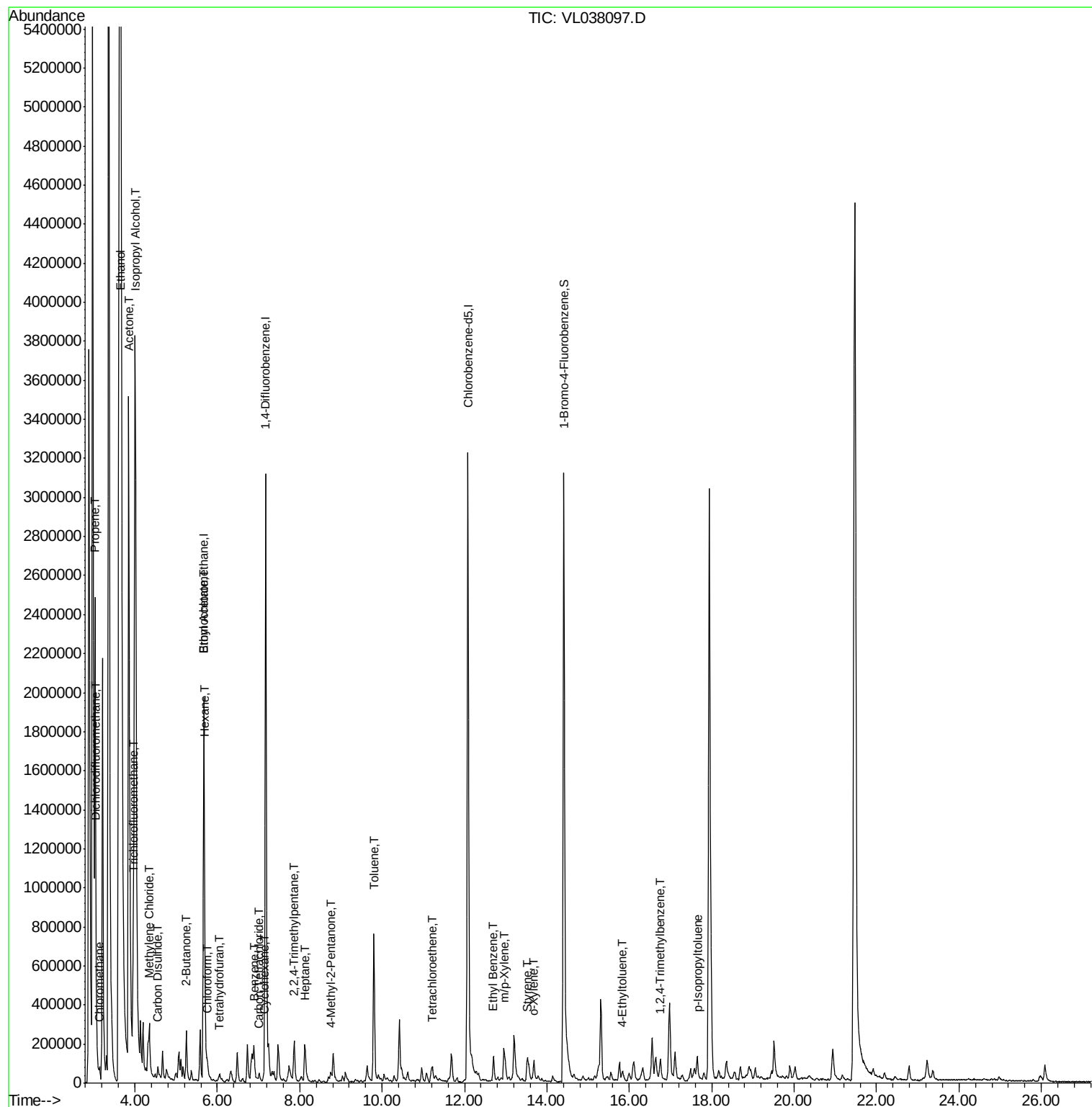
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
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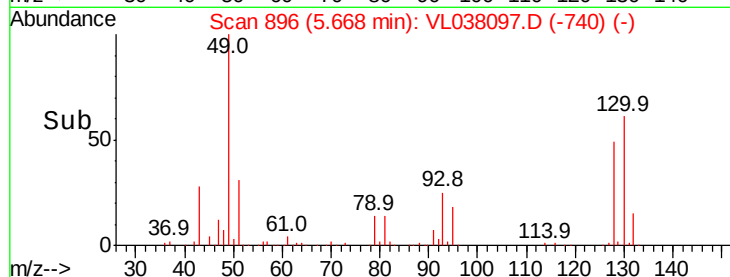
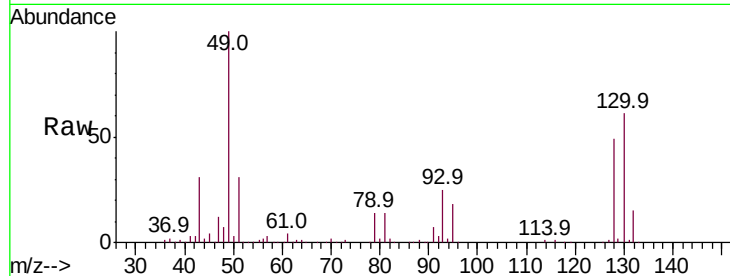
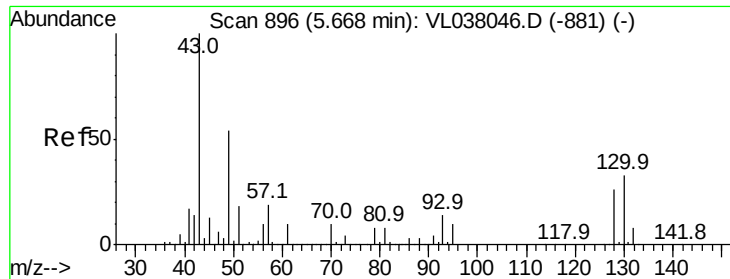
Instrument :
MSVOA_L
ClientSampleId :
IA-PURE-BARRE

Quant Time: Nov 28 11:48:37 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration

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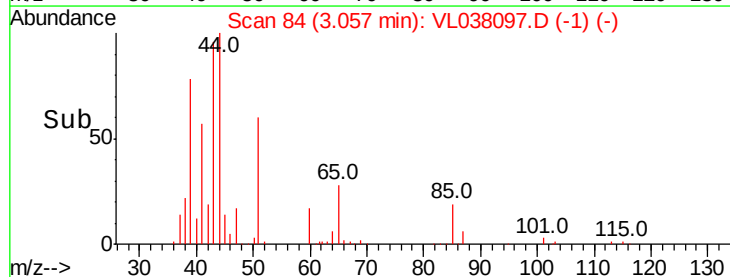
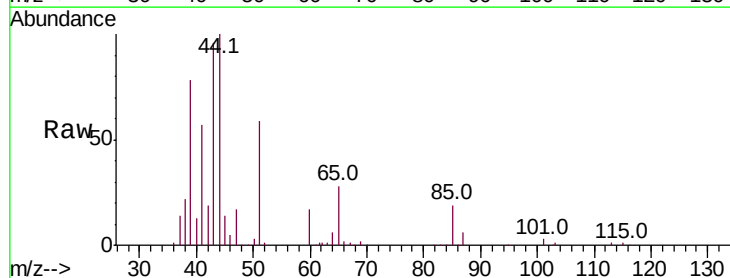
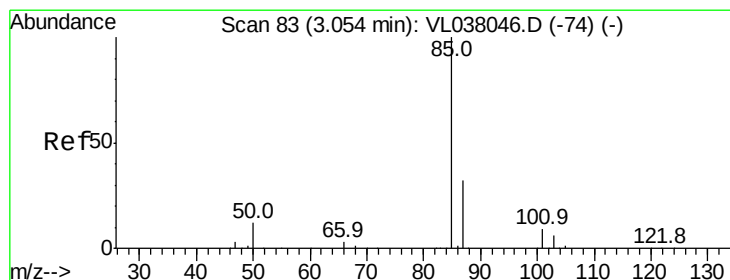
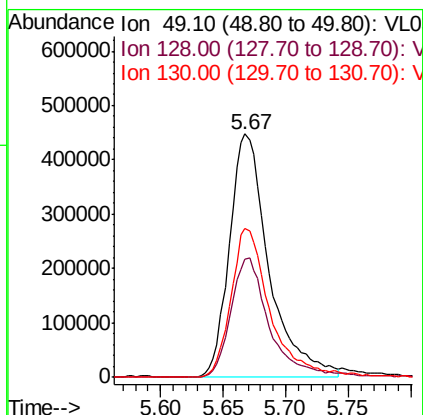


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Nov 2021 13:25

Tot Ion:
Ion Ratio
49 100
128 48.
130 61.

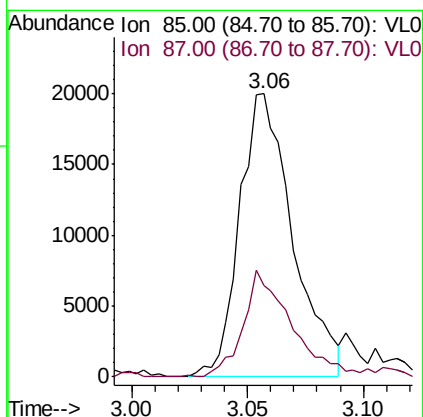
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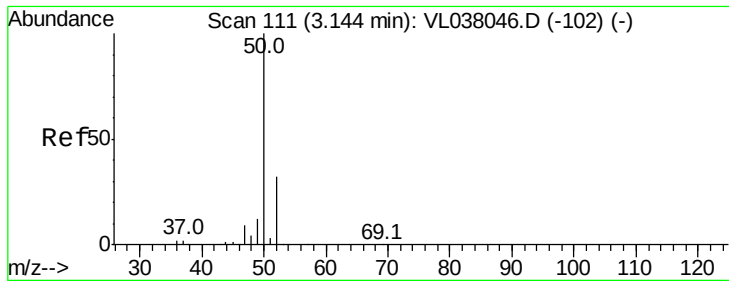
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#2
Dichlorodifluoromethane
Concen: 0.197 ppbv
RT: 3.06 min Scan# 84
Delta R.T. 0.00 min
Lab File: VL038097.D
Acq: 23 Nov 2021 13:25

Tgt Ion: 85 Resp: 31832
Ion Ratio Lower Upper
85 100
87 32.0 25.8 38.6





#4

Chloromethane

Concen: 0.512 ppbv m

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 13:25

Tot Ion:

Ion Ratio

50 100

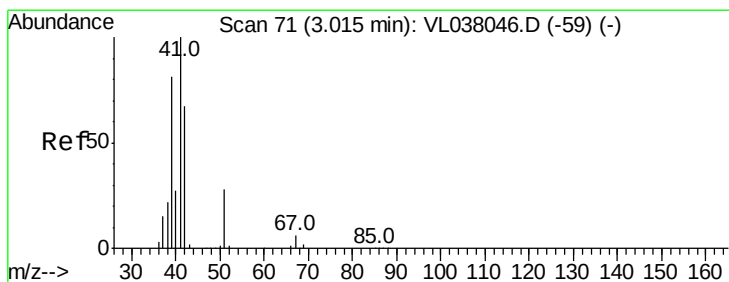
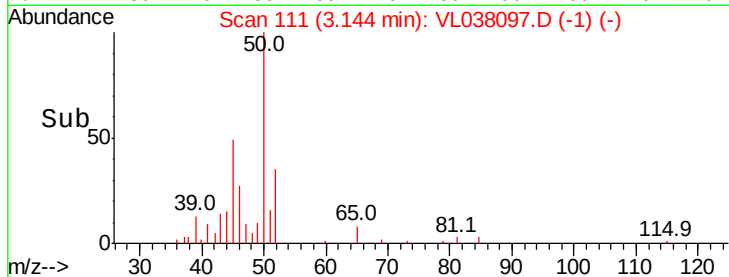
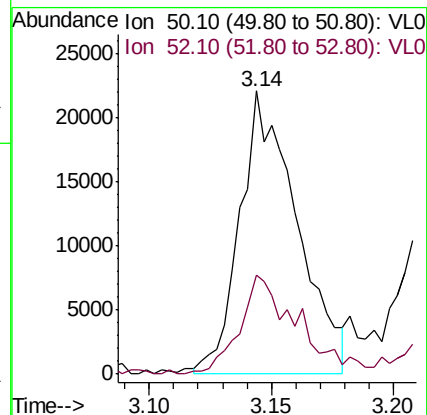
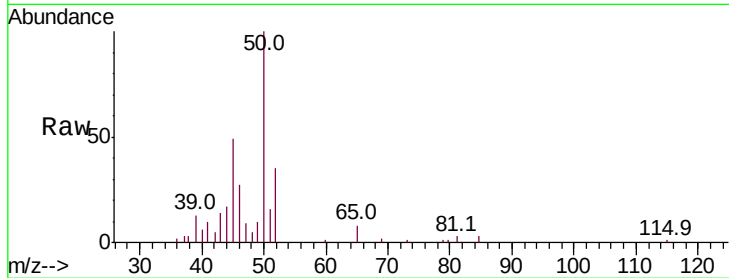
52 34.

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#9

Propene

Concen: 6.970 ppbv m

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL038097.D

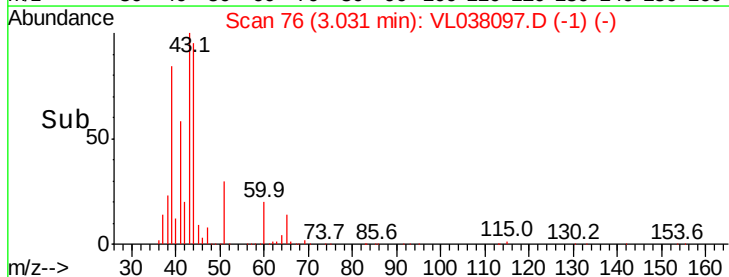
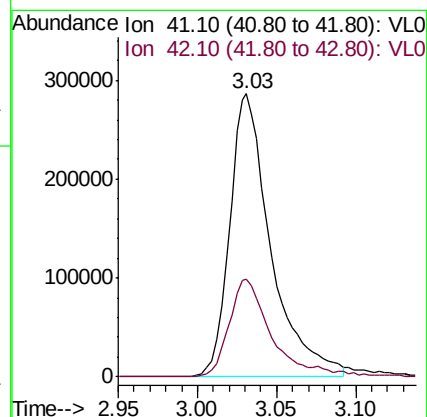
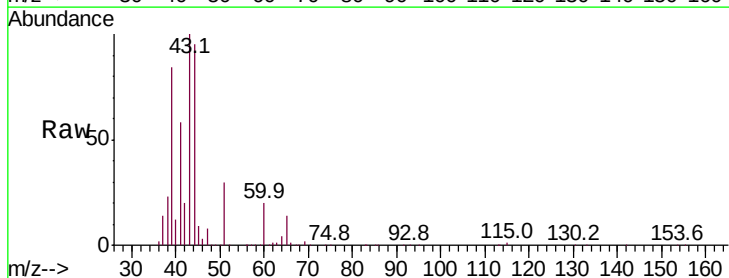
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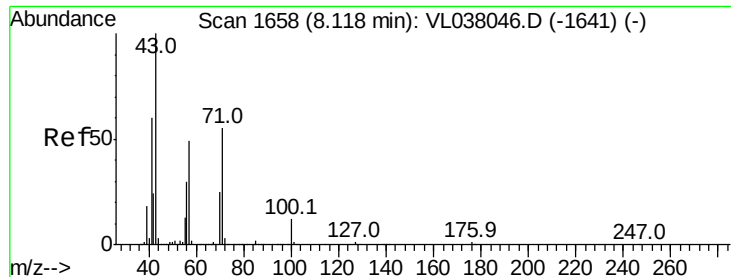
Tgt Ion: 41 Resp: 527369

Ion Ratio Lower Upper

41 100

42 100.5 53.8 80.8#





#10

Heptane

Concen: 0.424 ppbv m

RT: 8.12

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 13:25

Tot Ion:

Ion Ratio

43 100

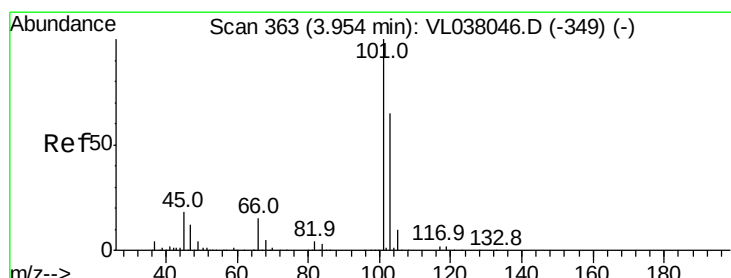
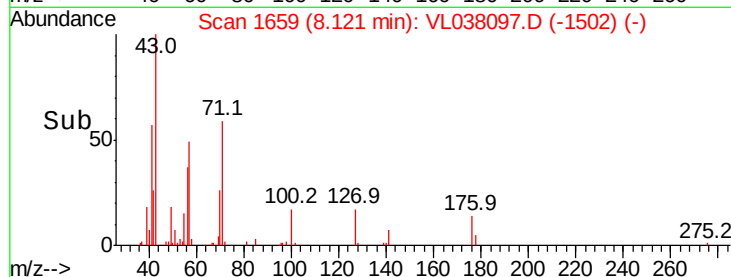
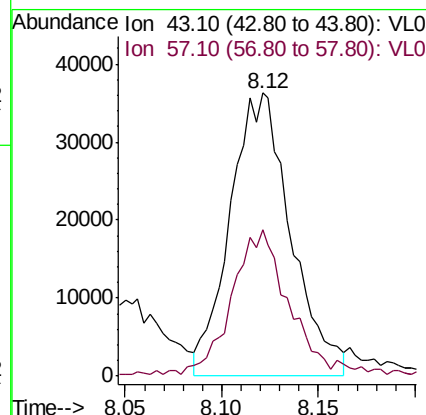
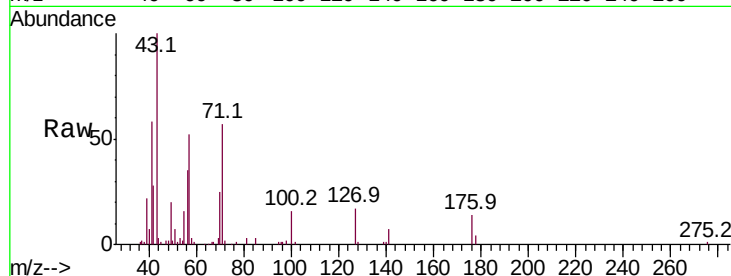
57 50.

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#11

Trichlorofluoromethane

Concen: 2.673 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL038097.D

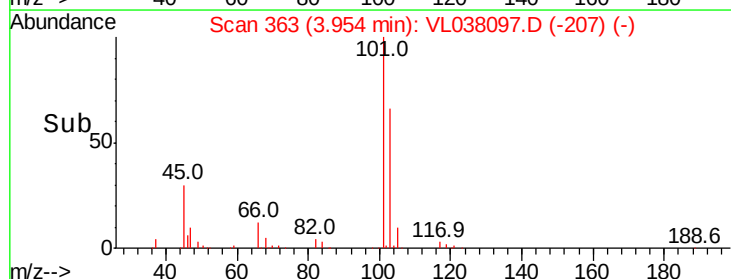
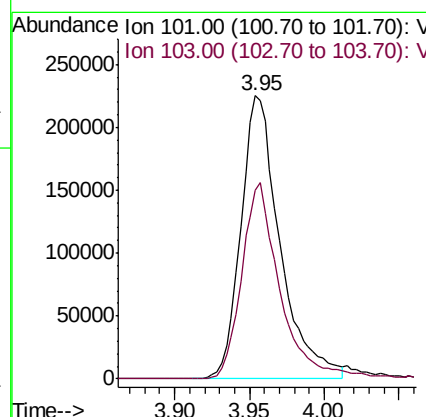
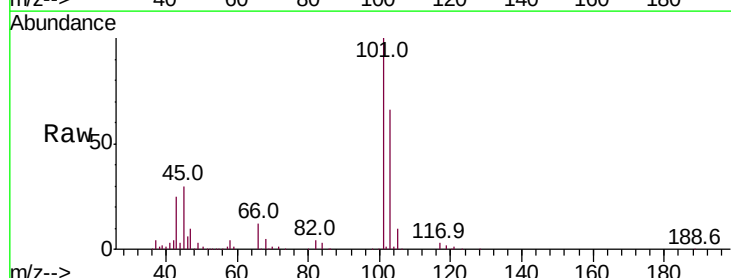
Acq: 23 Nov 2021 13:25

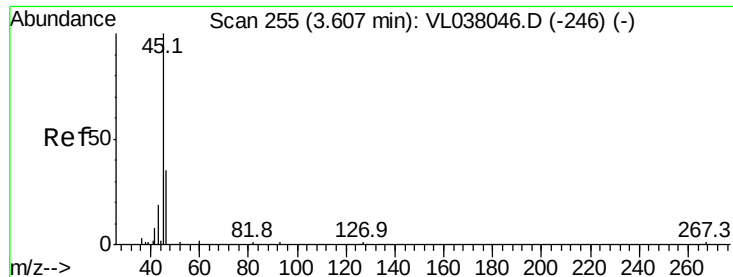
Tgt Ion:101 Resp: 410814

Ion Ratio Lower Upper

101 100

103 66.5 51.8 77.6



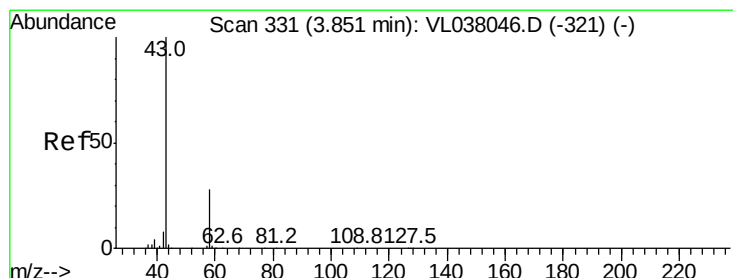
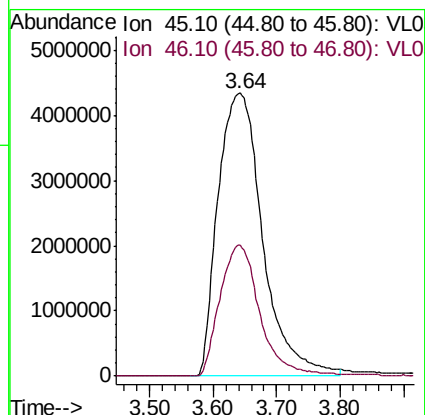
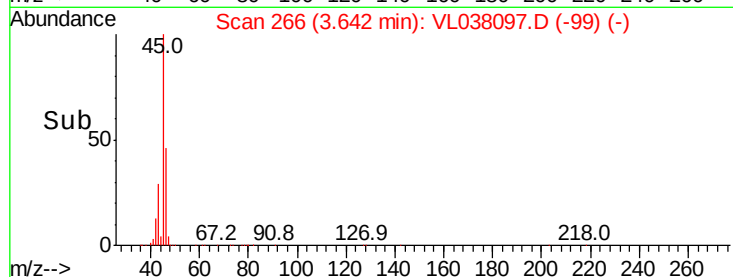
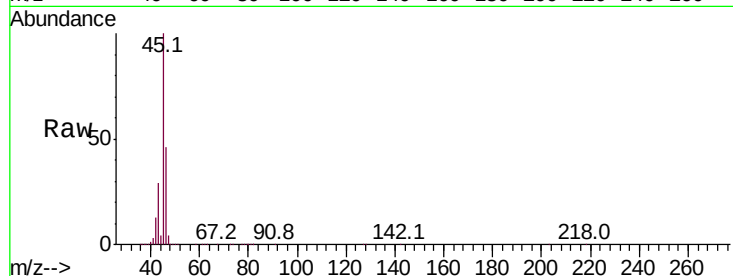


#13
Ethanol
Concen: 2896.469 ppbv
RT: 3.64
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 13:25

Tot Ion:
Ion Ratio
45 100
46 42.

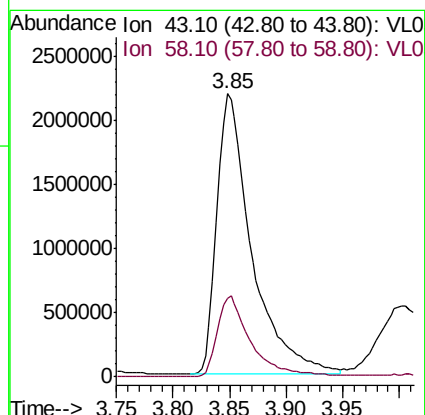
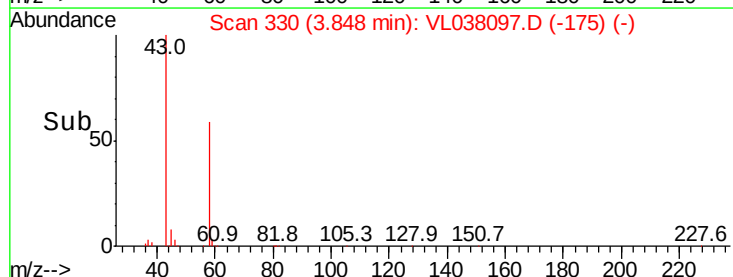
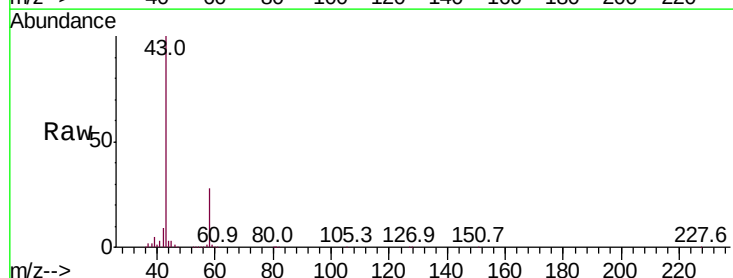
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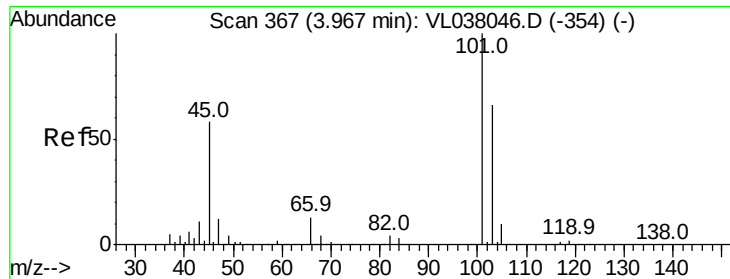
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#15
Acetone
Concen: 55.560 ppbv
RT: 3.85 min Scan# 330
Delta R.T.: -0.00 min
Lab File: VL038097.D
Acq: 23 Nov 2021 13:25

Tgt Ion: 43 Resp: 4712344
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6





#19

Isopropyl Alcohol

Concen: 125.077 ppbv

RT: 4.00 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Nov 2021 13:25

Tot Ion:

Ion Ratio

45 100

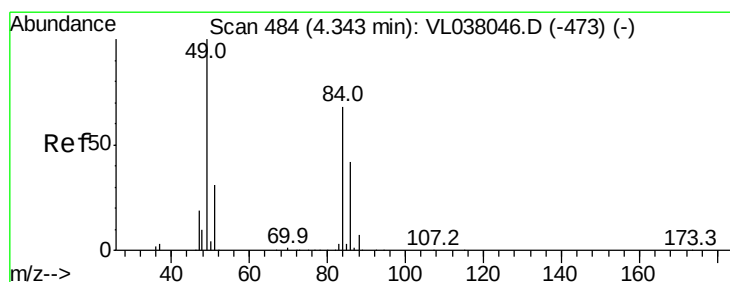
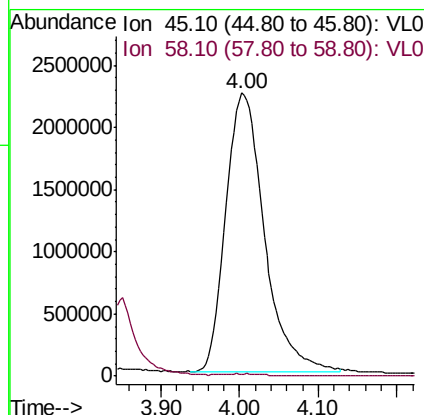
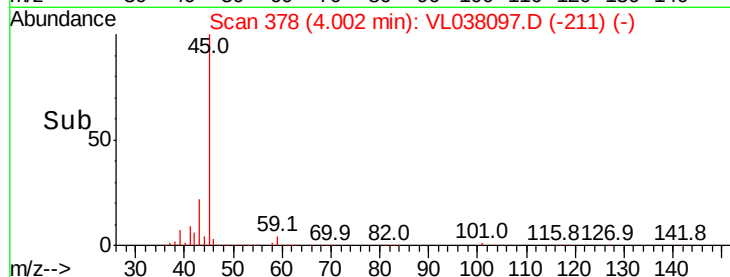
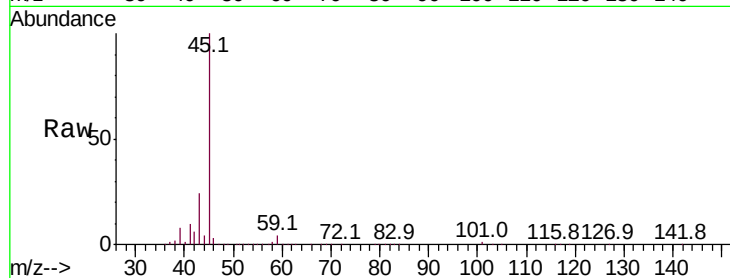
58 1.

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Supervised By :Mahesh Dadoda 11/29/2021



#20

Methylene Chloride

Concen: 1.510 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.00 min

Lab File: VL038097.D

Acq: 23 Nov 2021 13:25

Tgt Ion: 84 Resp: 71724

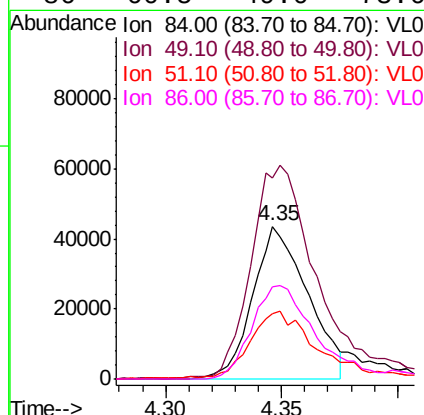
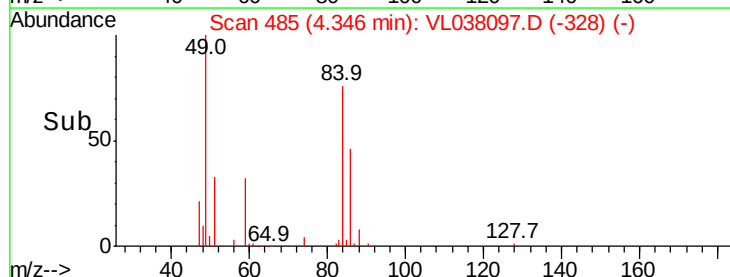
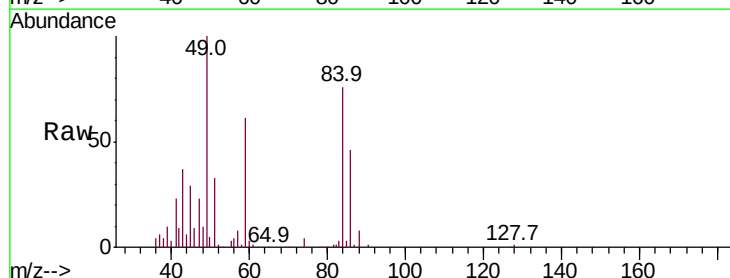
Ion Ratio Lower Upper

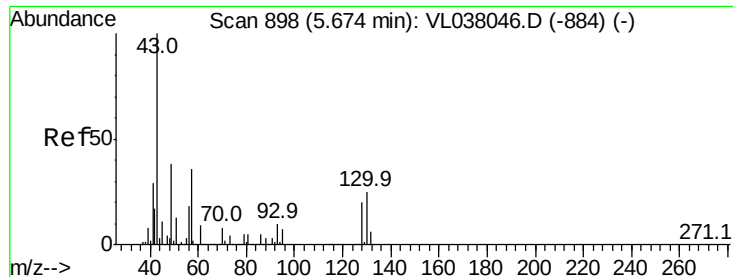
84 100

49 129.6 118.2 177.2

51 41.1 36.8 55.2

86 60.5 49.0 73.6



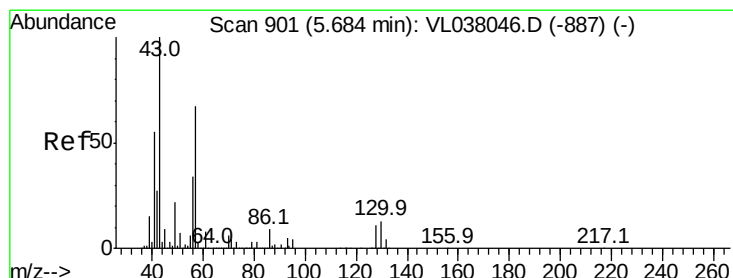
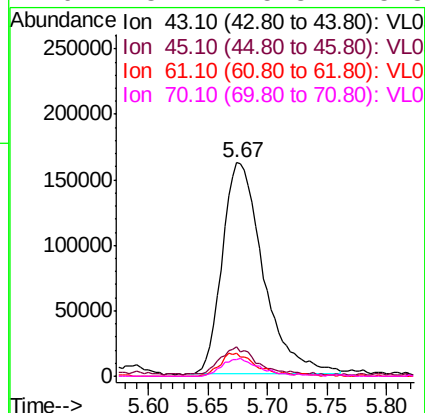
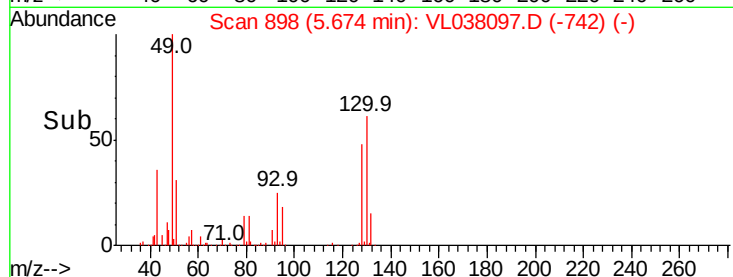
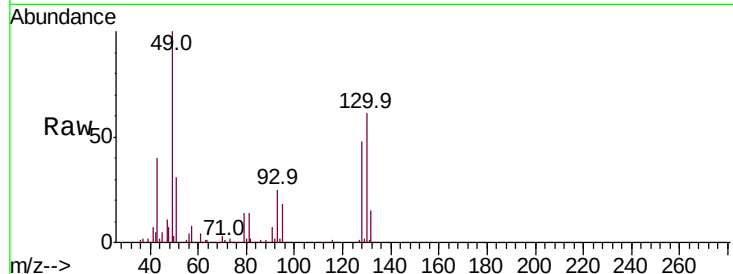


#25
Ethyl Acetate
Concen: 1.371 ppbv
RT: 5.67 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Nov 2021 13:25

Tot Ion:
Ion Ratio
43 100
45 11.
61 10.
70 8.1 5.8 8.8

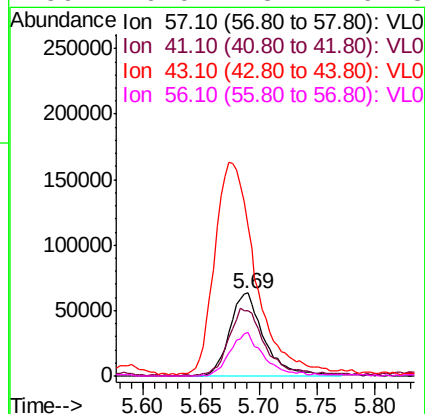
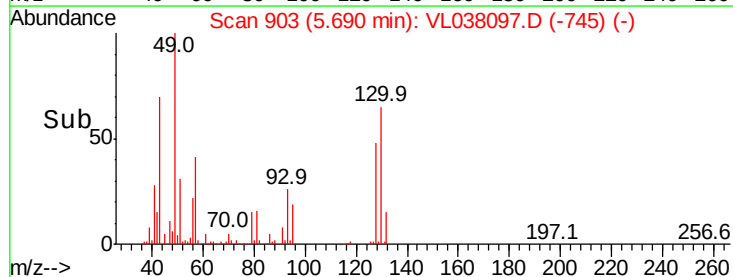
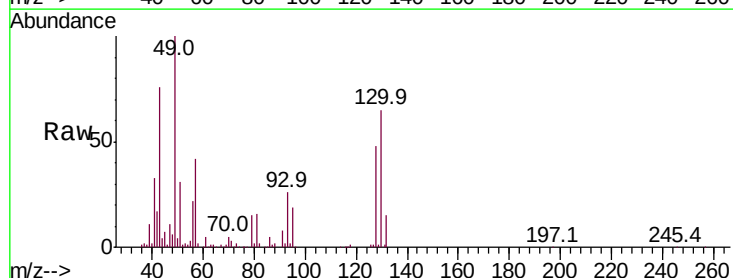
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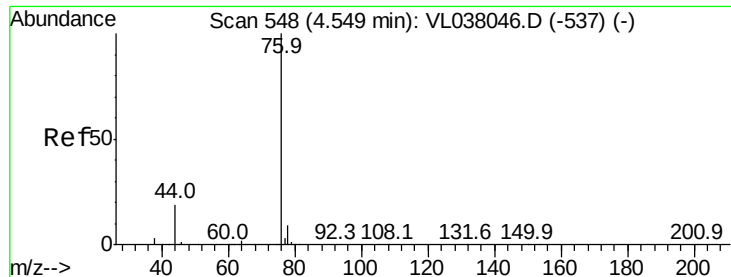
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#26
Hexane
Concen: 0.956 ppbv m
RT: 5.69 min Scan# 903
Delta R.T.: 0.01 min
Lab File: VL038097.D
Acq: 23 Nov 2021 13:25

Tgt Ion: 57 Resp: 129854
Ion Ratio Lower Upper
57 100
41 0.0 71.4 107.2#
43 0.0 174.6 261.8#
56 0.0 43.2 64.8#



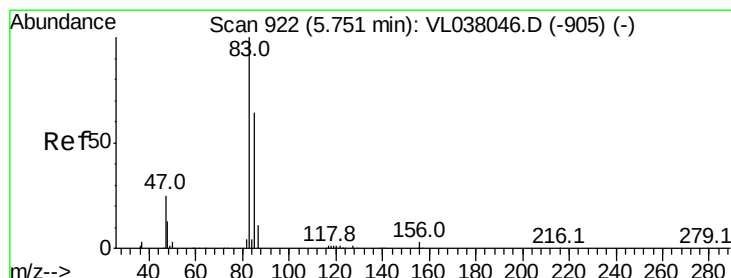
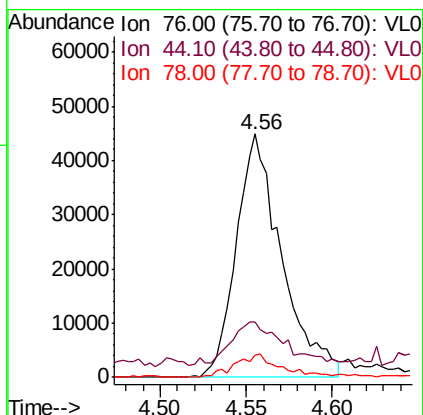
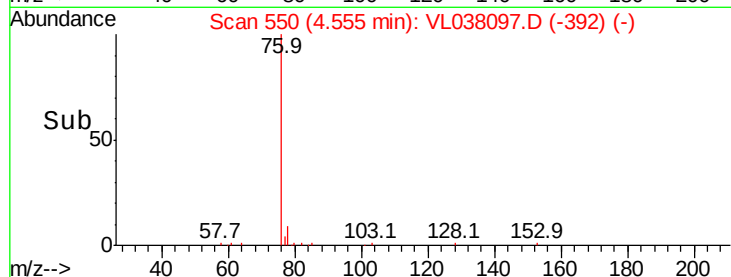
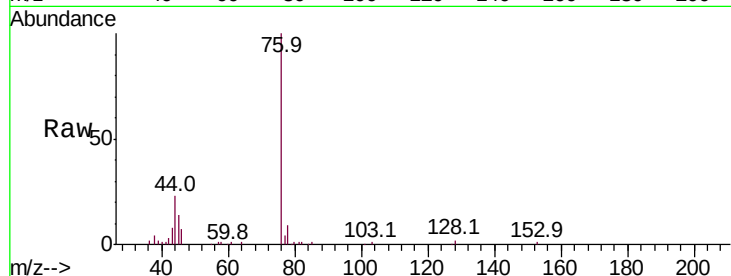


#27
Carbon Disulfide
Concen: 0.675 ppbv
RT: 4.56
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 13:25

Tot Ion:
Ion Ratio
76 100
44 22.
78 10.

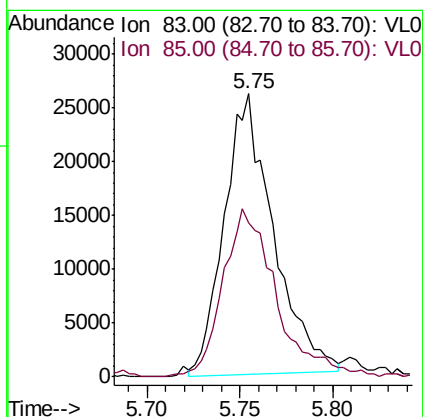
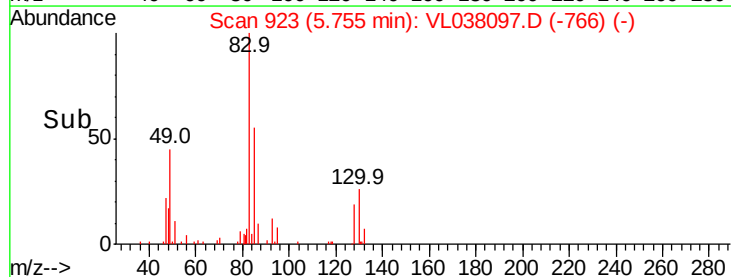
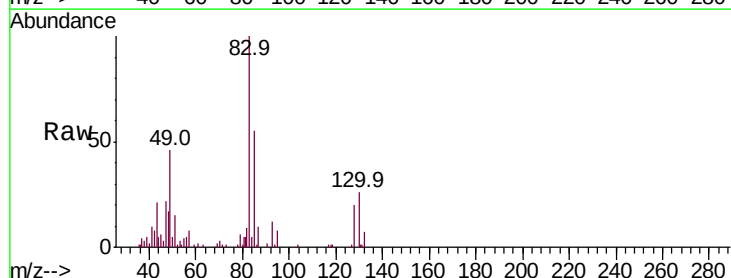
Manual Integrations
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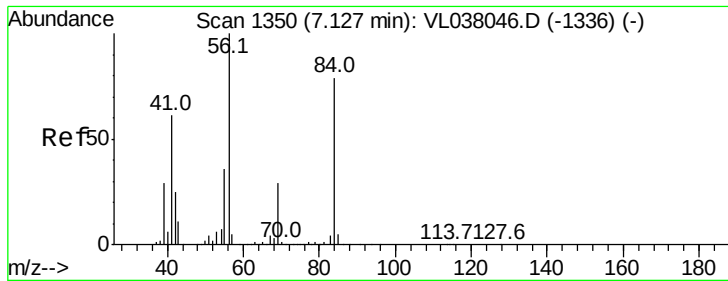
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#29
Chloroform
Concen: 0.239 ppbv
RT: 5.75 min Scan# 923
Delta R.T. 0.00 min
Lab File: VL038097.D
Acq: 23 Nov 2021 13:25

Tgt Ion: 83 Resp: 47921
Ion Ratio Lower Upper
83 100
85 54.1 51.0 76.6



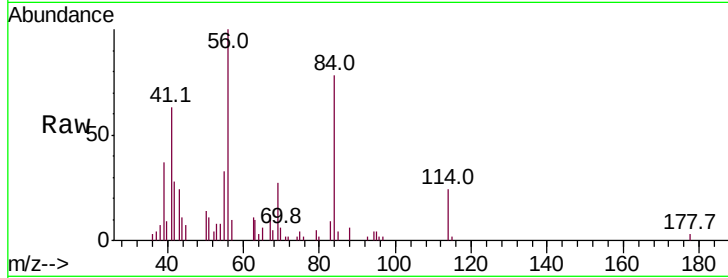


#30
Cyclohexane
Concen: 0.105 ppbv m
RT: 7.13
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Nov 2021 13:25

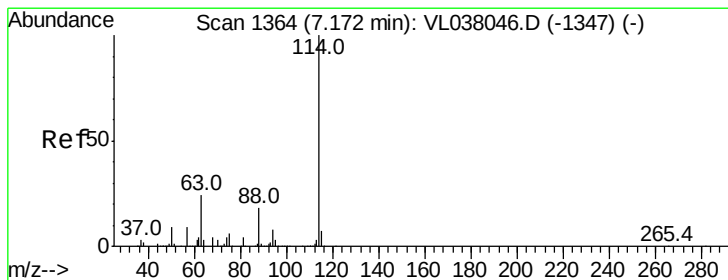
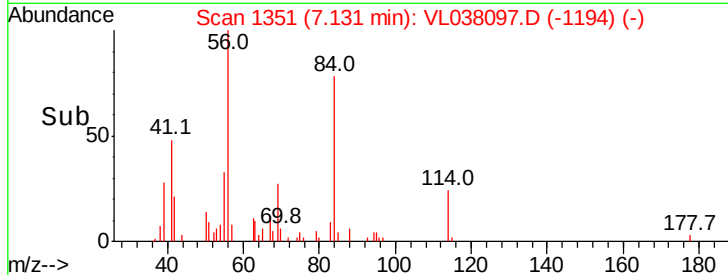
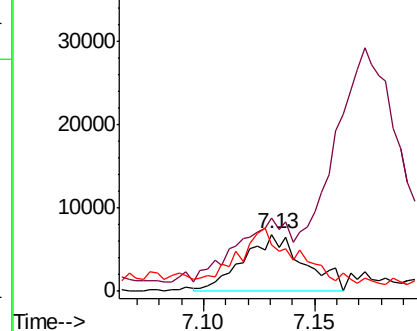
Tot Ion:
Ion Ratio
84 100
56 0.
41 125.

Manual Integrations
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Supervised By :Mahesh Dadoda 11/29/2021

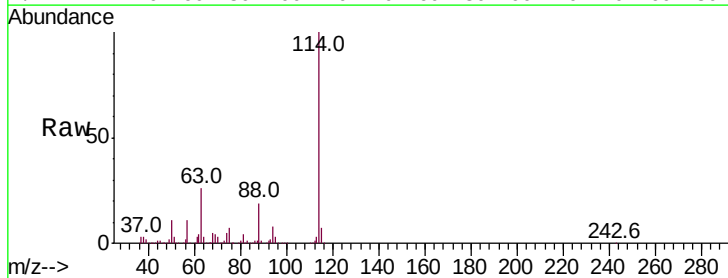


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

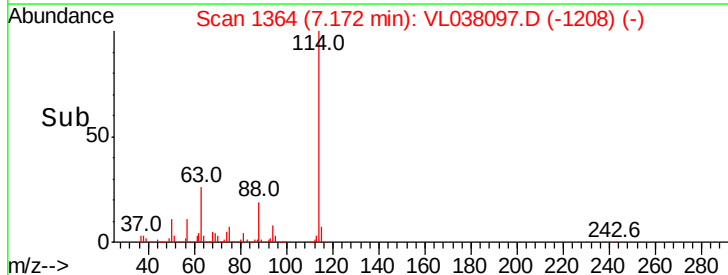
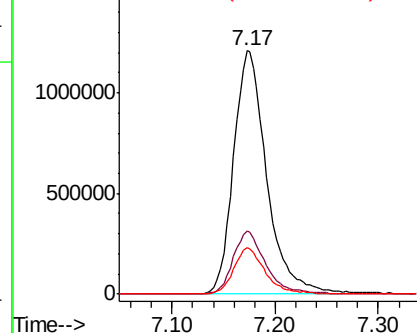


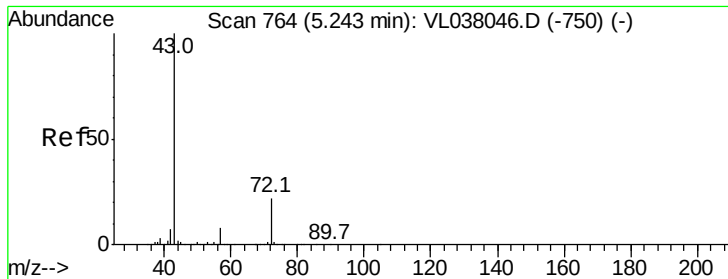
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. 0.00 min
Lab File: VL038097.D
Acq: 23 Nov 2021 13:25

Tgt Ion:114 Resp: 2704567
Ion Ratio Lower Upper
114 100
63 25.5 19.7 29.5
88 18.5 14.4 21.6



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 3.024 ppbv

RT: 5.24 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 23 Nov 2021 13:25

Tot Ion:

Ion Ratio

43 100

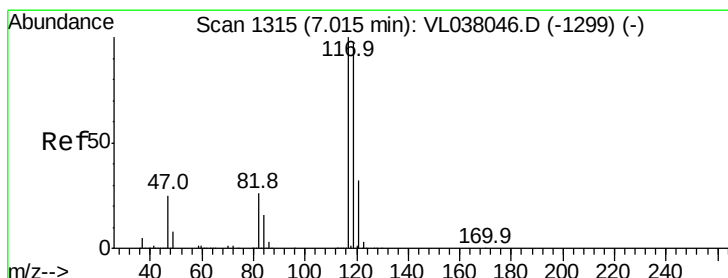
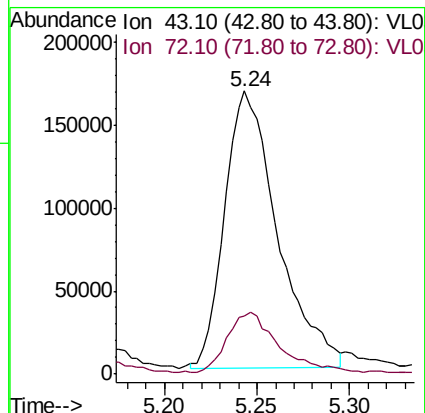
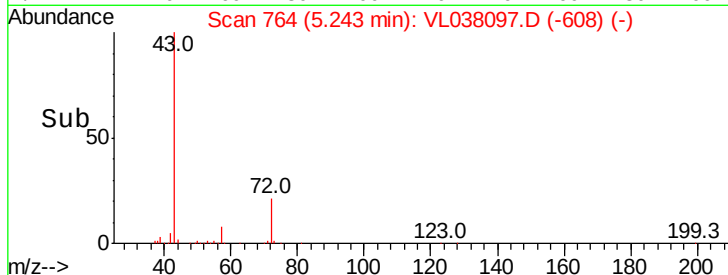
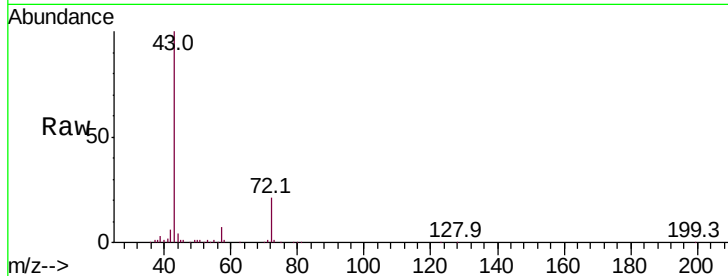
72 23.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021



#35

Carbon Tetrachloride

Concen: 0.119 ppbv m

RT: 7.02 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VL038097.D

Acq: 23 Nov 2021 13:25

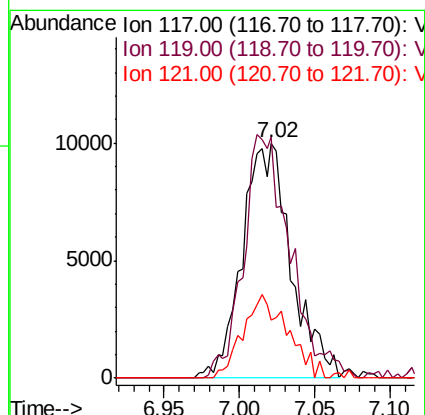
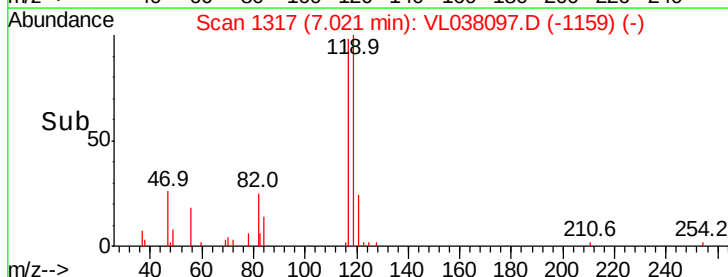
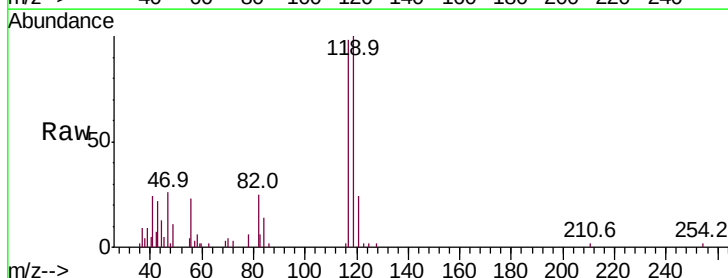
Tgt Ion:117 Resp: 22527

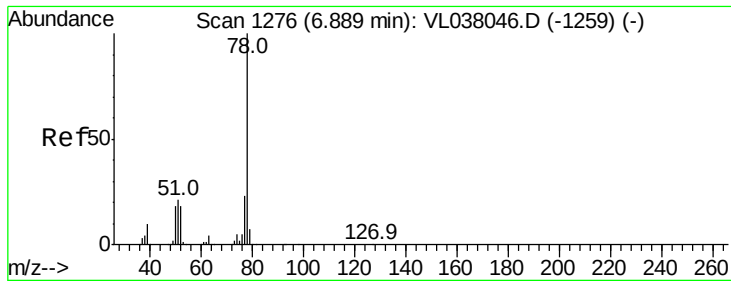
Ion Ratio Lower Upper

117 100

119 102.3 77.7 116.5

121 24.6 25.6 38.4#





#36

Benzene

Concen: 0.463 ppbv

RT: 6.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 13:25

Tot Ion:

Ion Ratio

78 100

77 20.

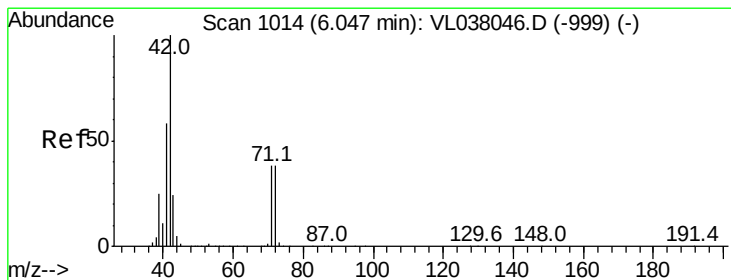
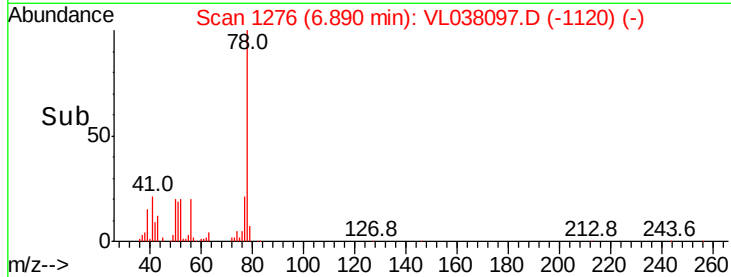
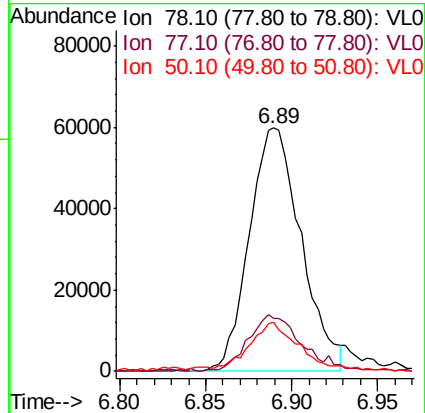
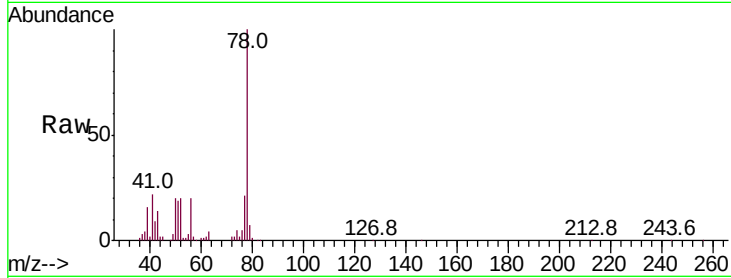
50 18.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021



#41

Tetrahydrofuran

Concen: 0.391 ppbv m

RT: 6.06 min Scan# 1017

Delta R.T. 0.01 min

Lab File: VL038097.D

Acq: 23 Nov 2021 13:25

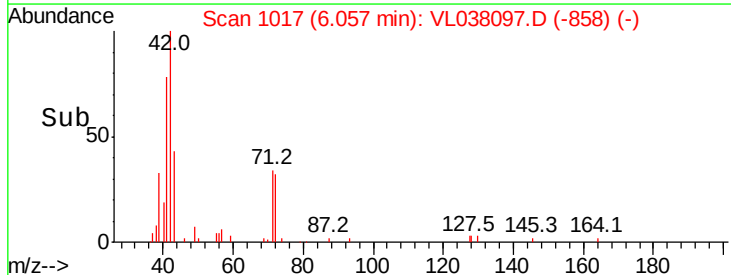
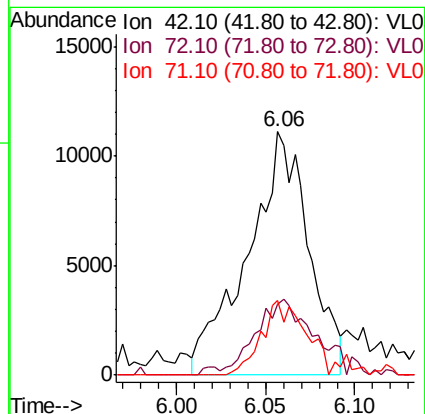
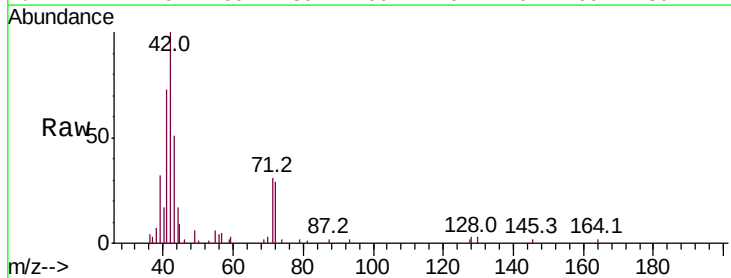
Tgt Ion: 42 Resp: 26438

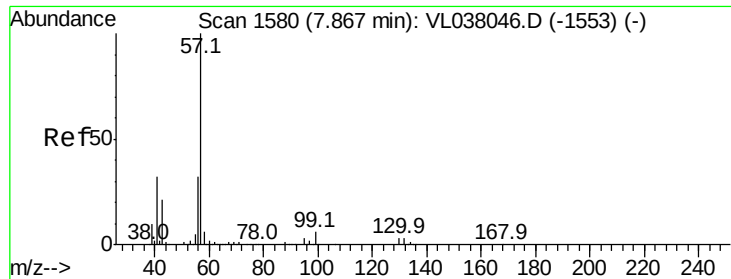
Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

71 0.0 30.6 46.0#





#44

2,2,4-Trimethylpentane

Concen: 0.445 ppbv

RT: 7.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 13:25

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Supervised By :Mahesh Dadoda 11/29/2021

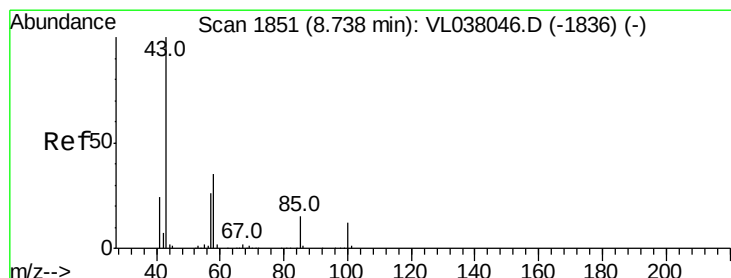
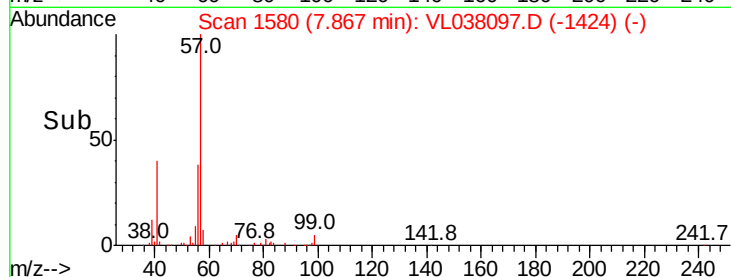
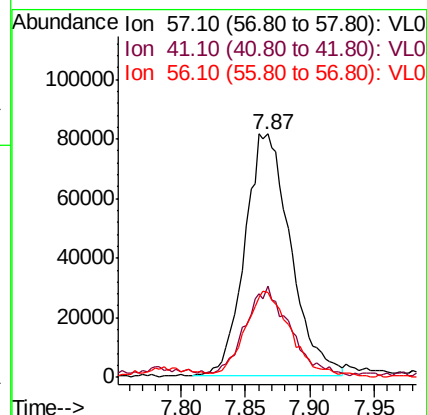
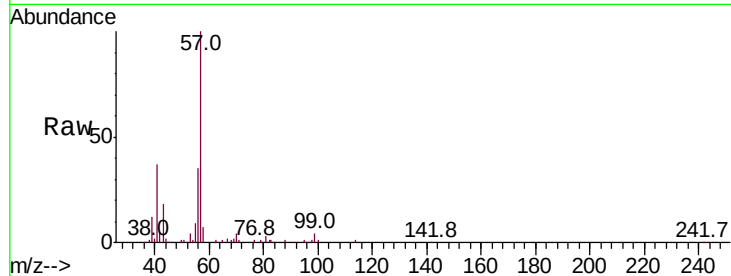
Tot Ion:

Ion Ratio

57 100

41 37.

56 37.



#50

4-Methyl-2-Pentanone

Concen: 0.224 ppbv m

RT: 8.75 min Scan# 1854

Delta R.T. 0.01 min

Lab File: VL038097.D

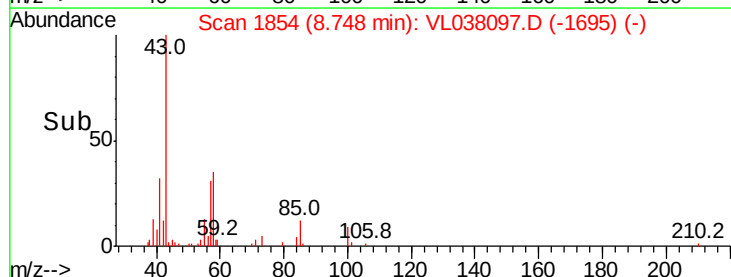
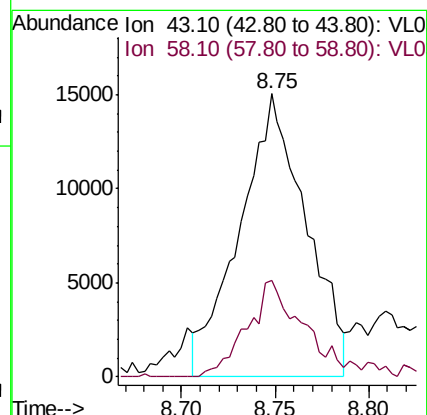
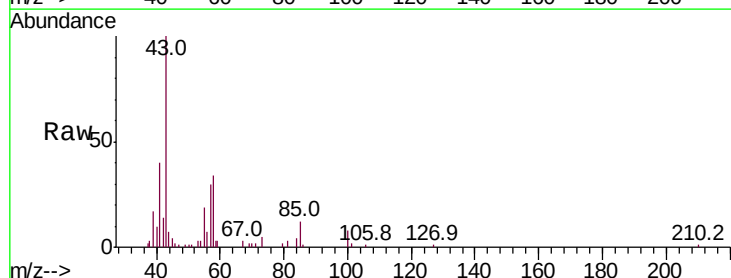
Acq: 23 Nov 2021 13:25

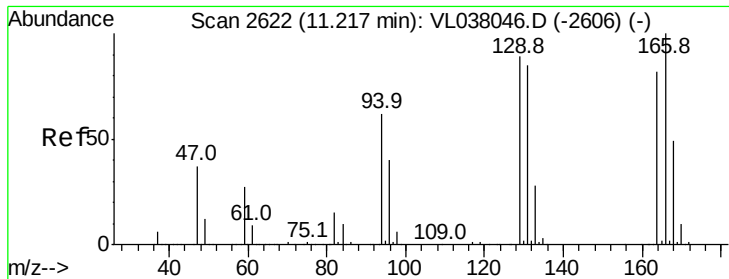
Tgt Ion: 43 Resp: 37042

Ion Ratio Lower Upper

43 100

58 30.5 29.4 44.2





#52

Tetrachloroethene

Concen: 0.104 ppbv m

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 13:25

Tot Ion:1

Ion Ratio

164 100

166 86.

129 67.

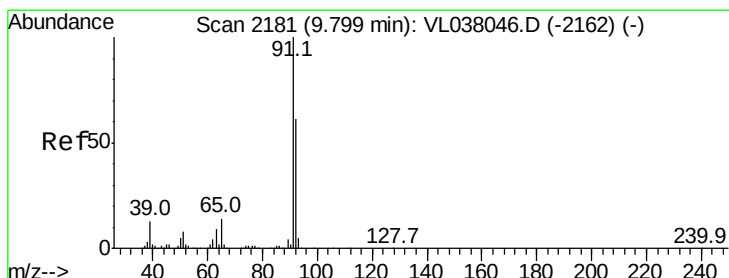
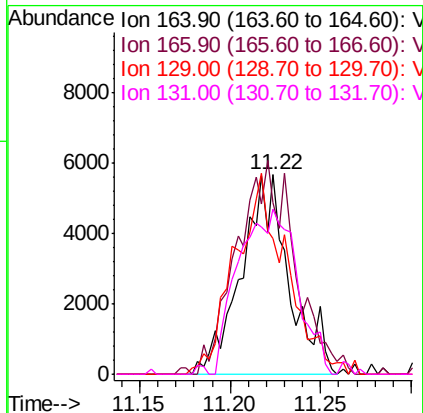
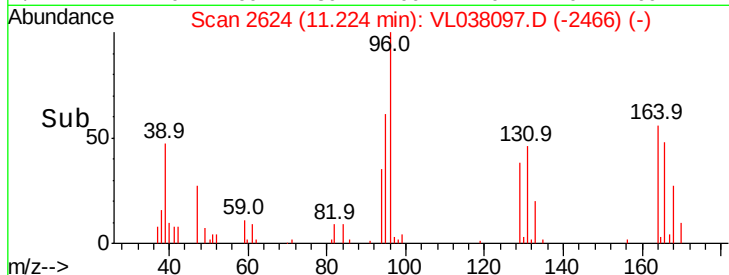
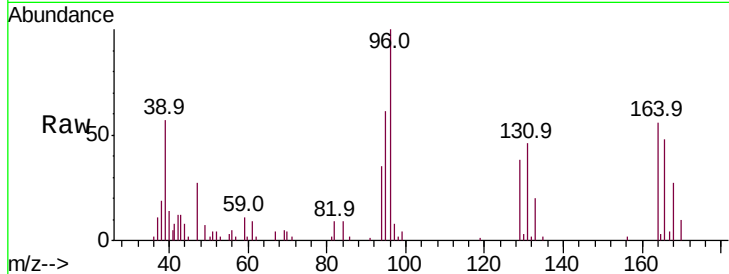
131 82.5 82.8 124.2#

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Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021



#53

Toluene

Concen: 1.852 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL038097.D

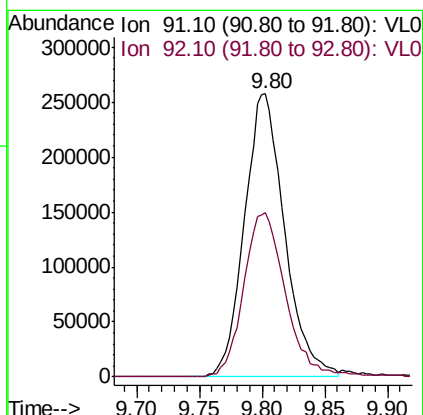
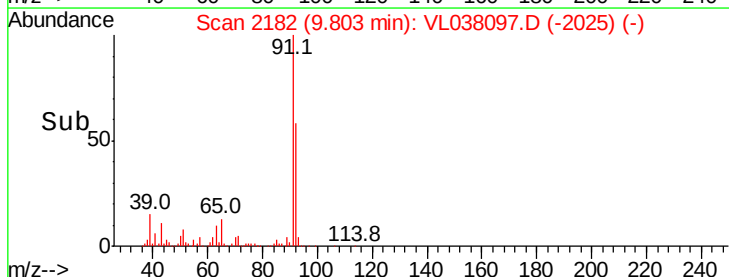
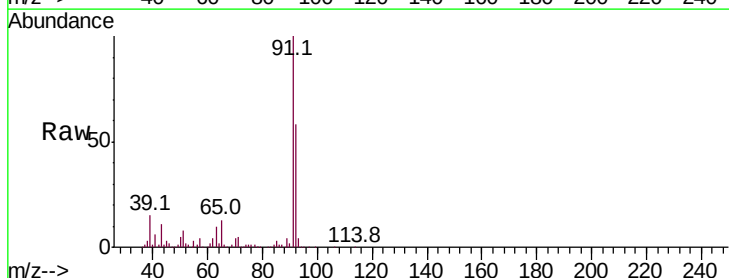
Acq: 23 Nov 2021 13:25

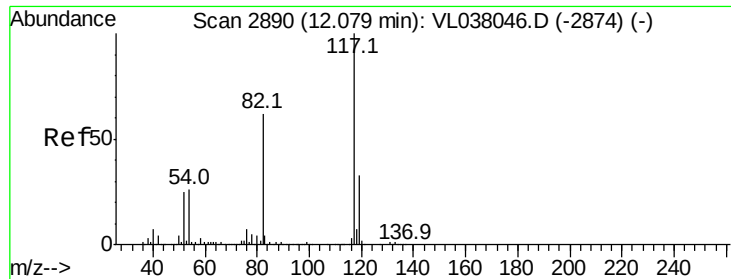
Tgt Ion: 91 Resp: 574753

Ion Ratio Lower Upper

91 100

92 60.6 49.7 74.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08

Delta R.T. MSVOA_L

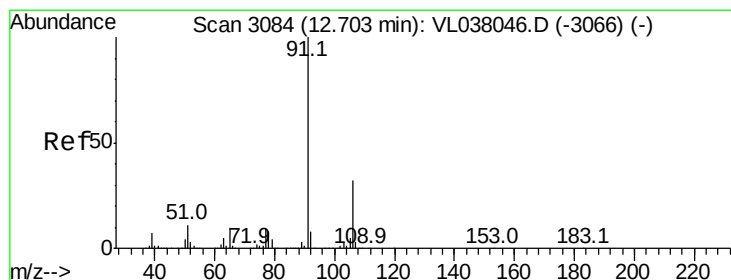
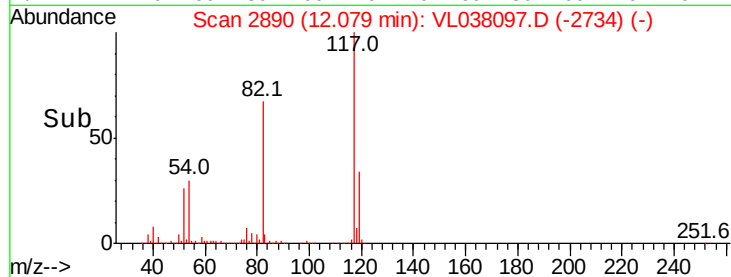
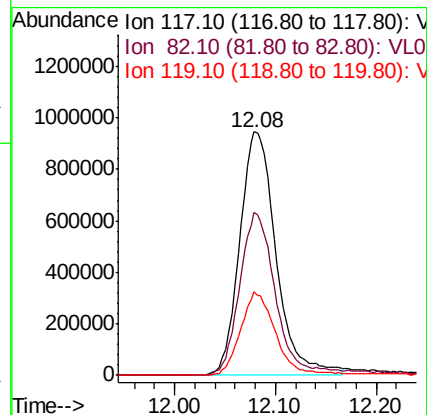
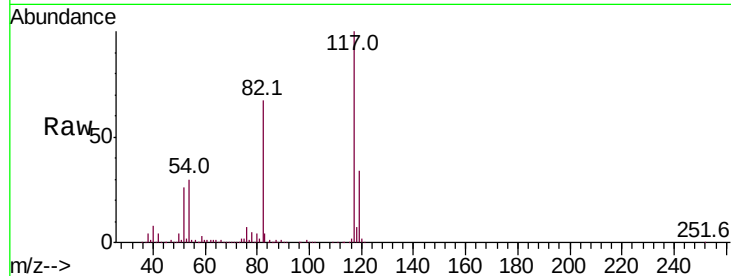
Lab File: ClientSampleId :

Acq: 23 Nov 2021 13:25

Tot Ion:1
Ion Rati
117 100
82 69.
119 33.

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



#58

Ethyl Benzene

Concen: 0.299 ppbv

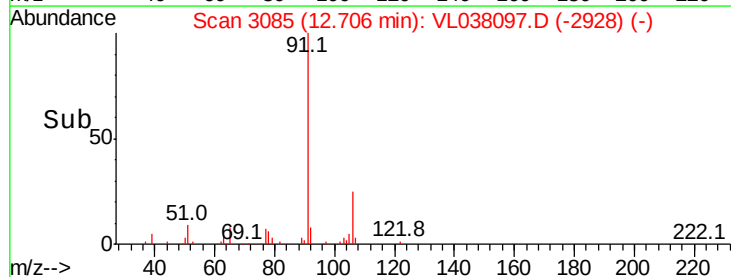
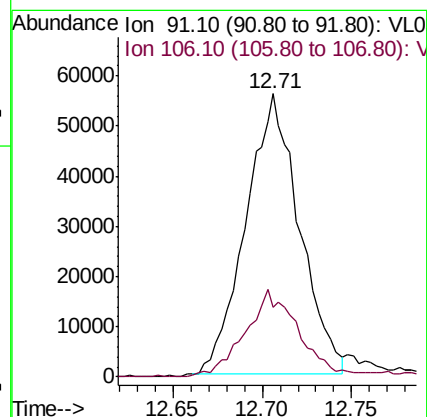
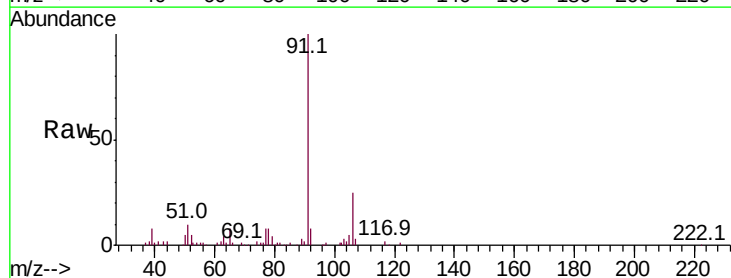
RT: 12.71 min Scan# 3085

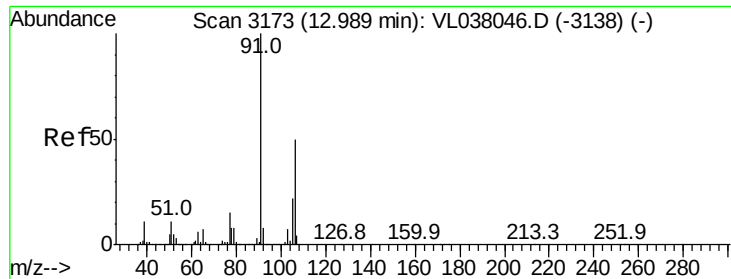
Delta R.T. 0.00 min

Lab File: VL038097.D

Acq: 23 Nov 2021 13:25

Tgt Ion: 91 Resp: 116847
Ion Ratio Lower Upper
91 100
106 24.2 25.8 38.6#



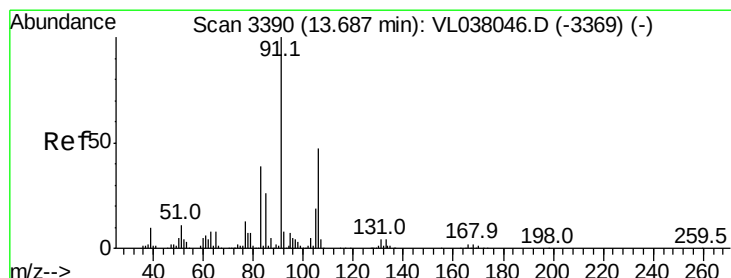
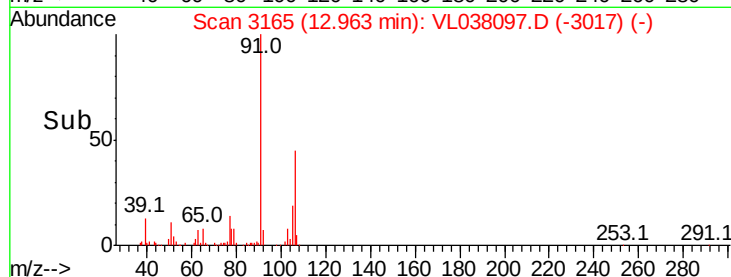
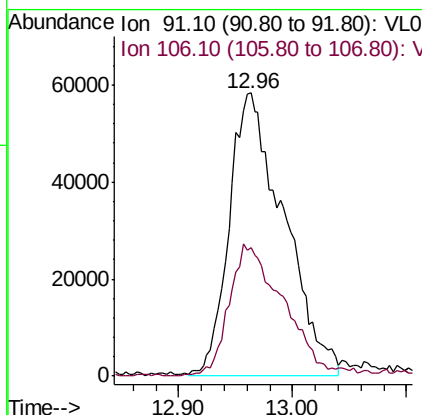
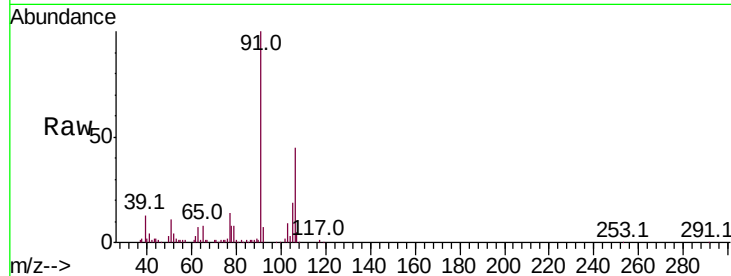


#59
m/p-Xylene
Concen: 0.593 ppbv m
RT: 12.96
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Nov 2021 13:25

Tot Ion:
Ion Ratio
91 100
106 0.

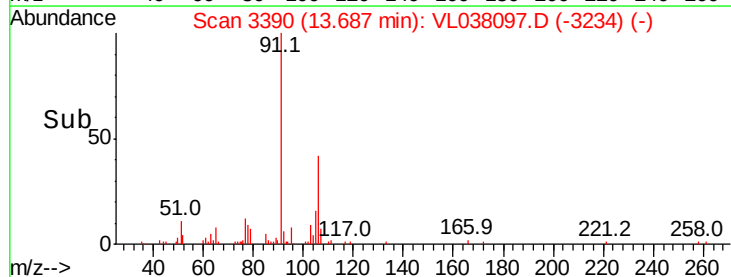
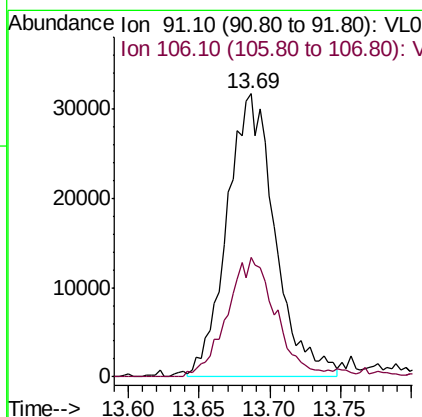
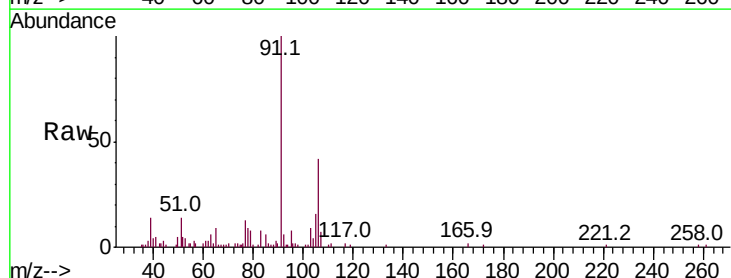
Manual Integrations
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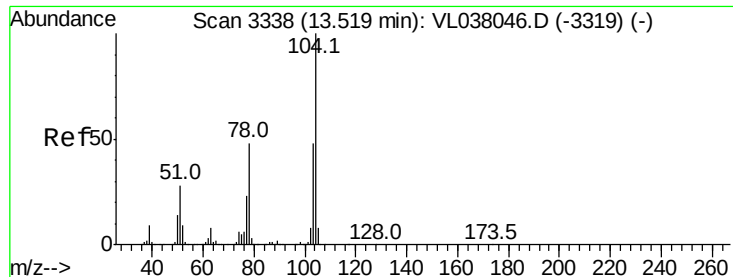
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#60
o-Xylene
Concen: 0.245 ppbv m
RT: 13.69 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VL038097.D
Acq: 23 Nov 2021 13:25

Tgt Ion: 91 Resp: 74747
Ion Ratio Lower Upper
91 100
106 43.5 24.2 72.6



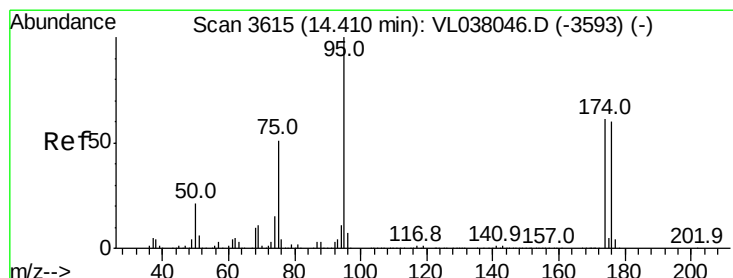
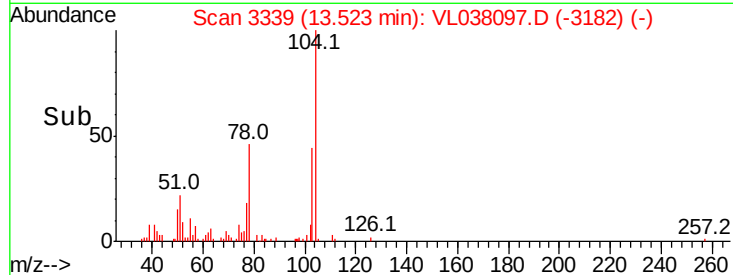
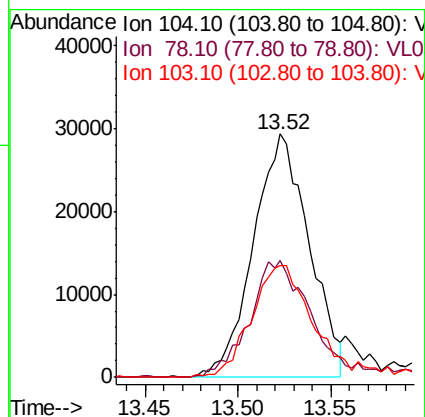
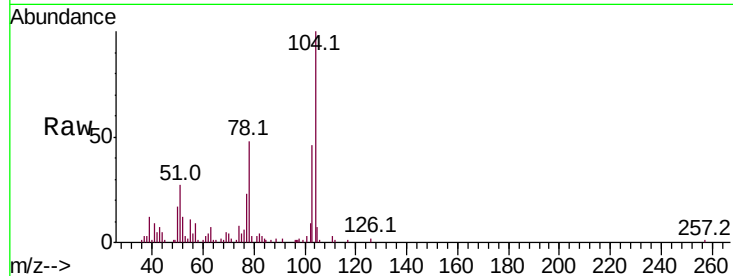


#61
Stvrene
Concen: 0.375 ppbv
RT: 13.52
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Nov 2021 13:25

Tot Ion:1
Ion Rati
104 100
78 57.
103 50.

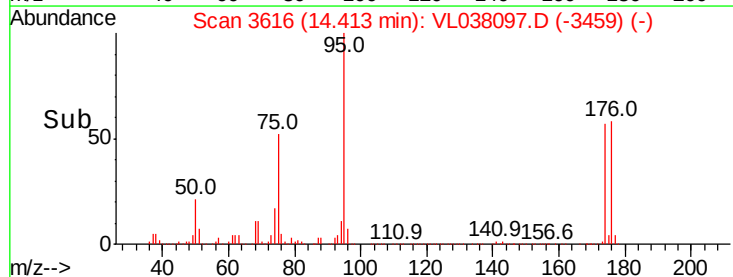
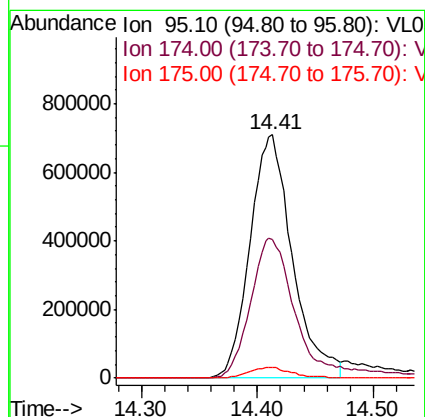
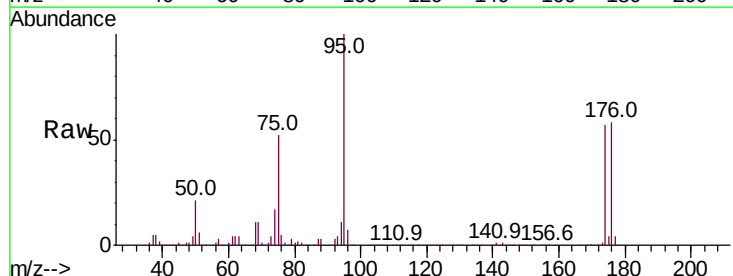
Manual Integrations
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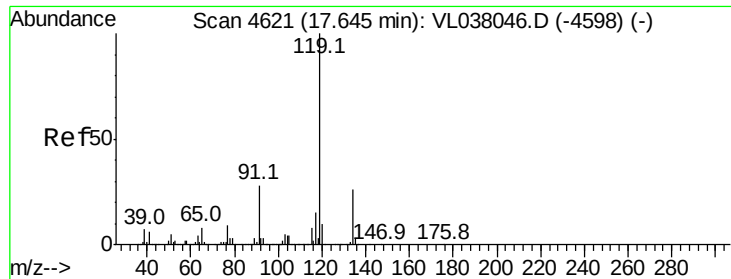
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#68
1-Bromo-4-Fluorobenzene
Concen: 10.588 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. 0.00 min
Lab File: VL038097.D
Acq: 23 Nov 2021 13:25

Tgt Ion: 95 Resp: 1804805
Ion Ratio Lower Upper
95 100
174 64.1 53.1 79.7
175 4.9 4.0 6.0



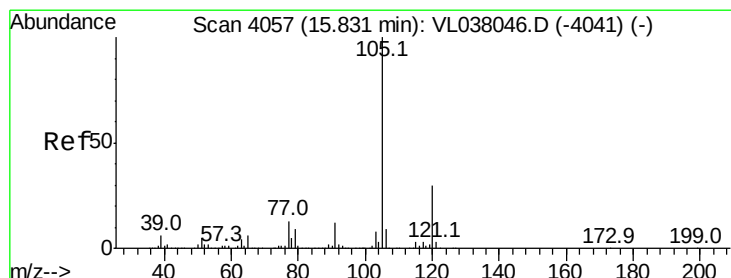
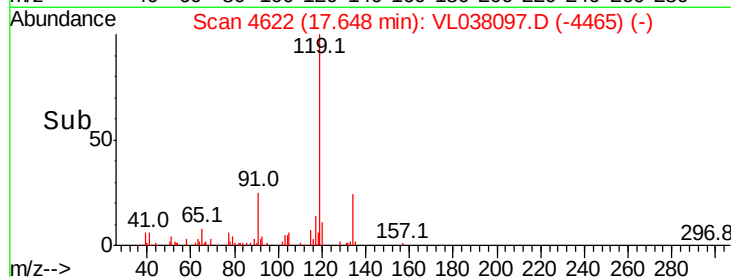
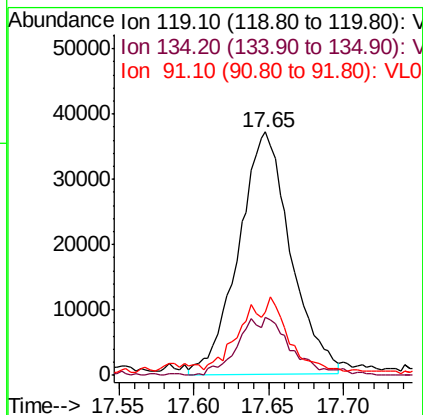
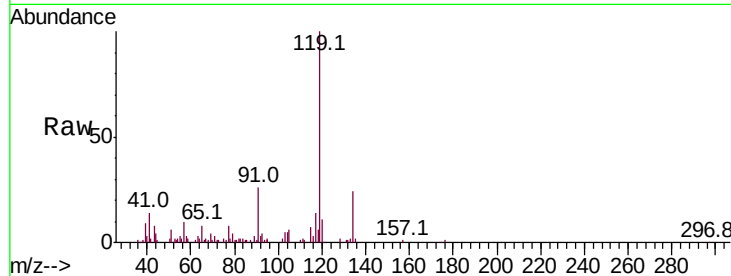


#69
 p-Isopropyltoluene
 Concen: 0.217 ppbv
 RT: 17.65
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Nov 2021 13:25

Tot Ion:1
 Ion Rati
 119 100
 134 24.
 91 34.

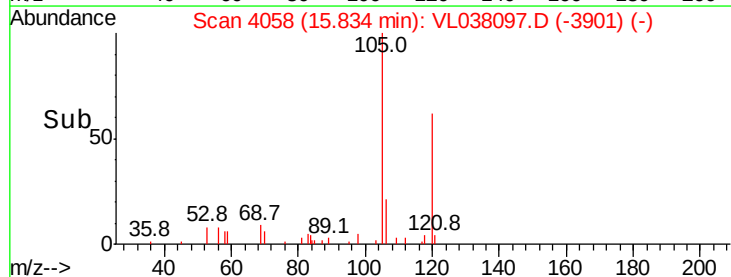
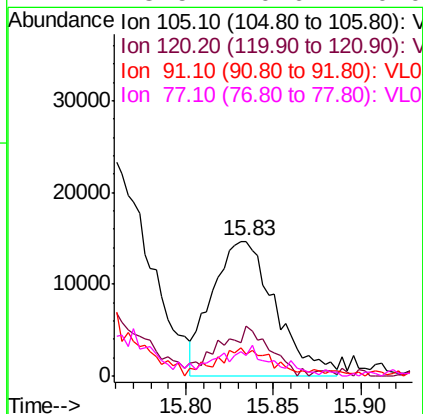
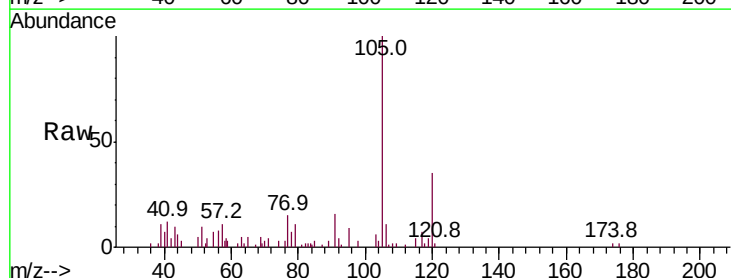
Manual Integrations
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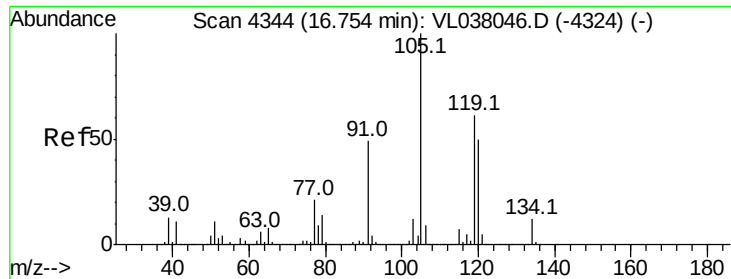
Reviewed By :Semsettin Yesilyurt 11/29/2021
 Supervised By :Mahesh Dadoda 11/29/2021



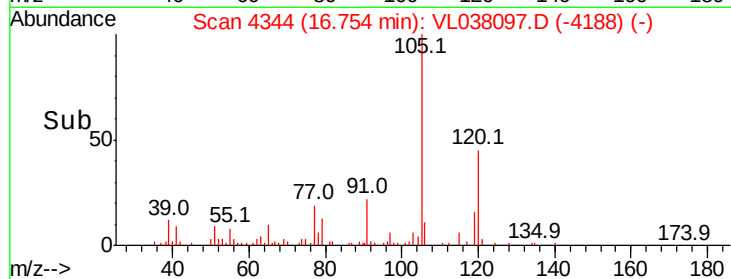
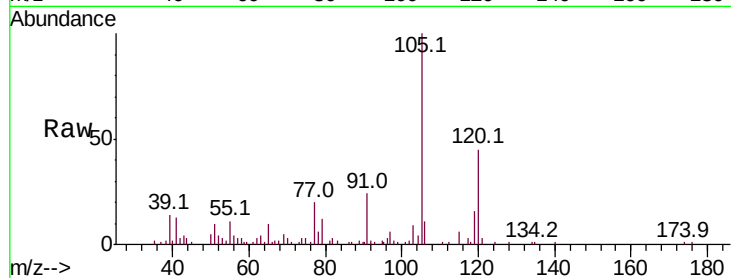
#72
 4-Ethyltoluene
 Concen: 0.105 ppbv m
 RT: 15.83 min Scan# 4058
 Delta R.T. 0.00 min
 Lab File: VL038097.D
 Acq: 23 Nov 2021 13:25

Tgt Ion:105 Resp: 36978
 Ion Ratio Lower Upper
 105 100
 120 28.5 25.1 37.7
 91 19.2 9.7 14.5#
 77 18.5 10.6 16.0#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.213 ppbv
 RT: 16.75
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Nov 2021 15:25



Tot Ion:1
 Ion Rati
 105 100
 120 45.
 91 23.
 77 20.3 16.6 25.0

Manual Integrations
 APPROVED

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

