

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041422\
 Data File : VL038932.D
 Acq On : 15 Apr 2022 00:46
 Operator : SY/AP
 Sample : N2259-06
 Misc : 400mL/MSVOA L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 1165-19-IA-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/15/2022
 Supervised By : Mahesh Dadoda 04/18/2022

Quant Time: Apr 15 10:21:21 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1217227	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3048170	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2809365	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2250905	10.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	108479	0.628 ppbv	93
4) Chloromethane	3.14	50	34016	0.442 ppbv #	83
9) Propene	3.02	41	202850	2.581 ppbv #	67
10) Heptane	8.12	43	1331350	6.725 ppbv	98
11) Trichlorofluoromethane	3.95	101	325505	2.346 ppbv	98
13) Ethanol	3.60	45	593795	124.319 ppbv #	100
15) Acetone	3.85	43	15378868	126.903 ppbv #	84
19) Isopropyl Alcohol	3.97	45	342433	5.529 ppbv #	100
20) Methylene Chloride	4.35	84	199406	4.537 ppbv	93
25) Ethyl Acetate	5.68	43	308734m	1.004 ppbv	
26) Hexane	5.69	57	197306	1.410 ppbv #	71
30) Cyclohexane	7.13	84	50592	0.410 ppbv	92
34) 2-Butanone	5.25	43	159805	1.327 ppbv	92
35) Carbon Tetrachloride	7.03	117	10711m	0.059 ppbv	
36) Benzene	6.89	78	190465	0.687 ppbv	94
44) 2,2,4-Trimethylpentane	7.86	57	151662	0.323 ppbv #	1
50) 4-Methyl-2-Pentanone	8.74	43	281556	1.039 ppbv	96
52) Tetrachloroethene	11.21	164	5442m	0.056 ppbv	
53) Toluene	9.80	91	9273685	28.970 ppbv	97
58) Ethyl Benzene	12.70	91	411864	0.981 ppbv	92
59) m/p-Xylene	12.96	91	1109353	3.145 ppbv	100
60) o-Xylene	13.68	91	438121	1.328 ppbv	94
61) Styrene	13.52	104	27389m	0.136 ppbv	
64) n-propylbenzene	15.55	120	46162	0.359 ppbv	79
70) n-Butylbenzene	18.55	91	131623m	0.258 ppbv	
72) 4-Ethyltoluene	15.83	105	242152	0.614 ppbv	97
73) 1,3,5-Trimethylbenzene	15.99	105	222267m	0.628 ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	768612	2.054 ppbv #	70
79) Naphthalene	22.19	128	56383m	0.201 ppbv	

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL041422\
Data File : VL038932.D
Acq On : 15 Apr 2022 00:46
Operator : SY/AP
Sample : N2259-06
Misc : 400mL/MSVOA L
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1165-19-IA-1

Manual Integrations
APPROVED

Quant Time: Apr 15 10:21:21 2022

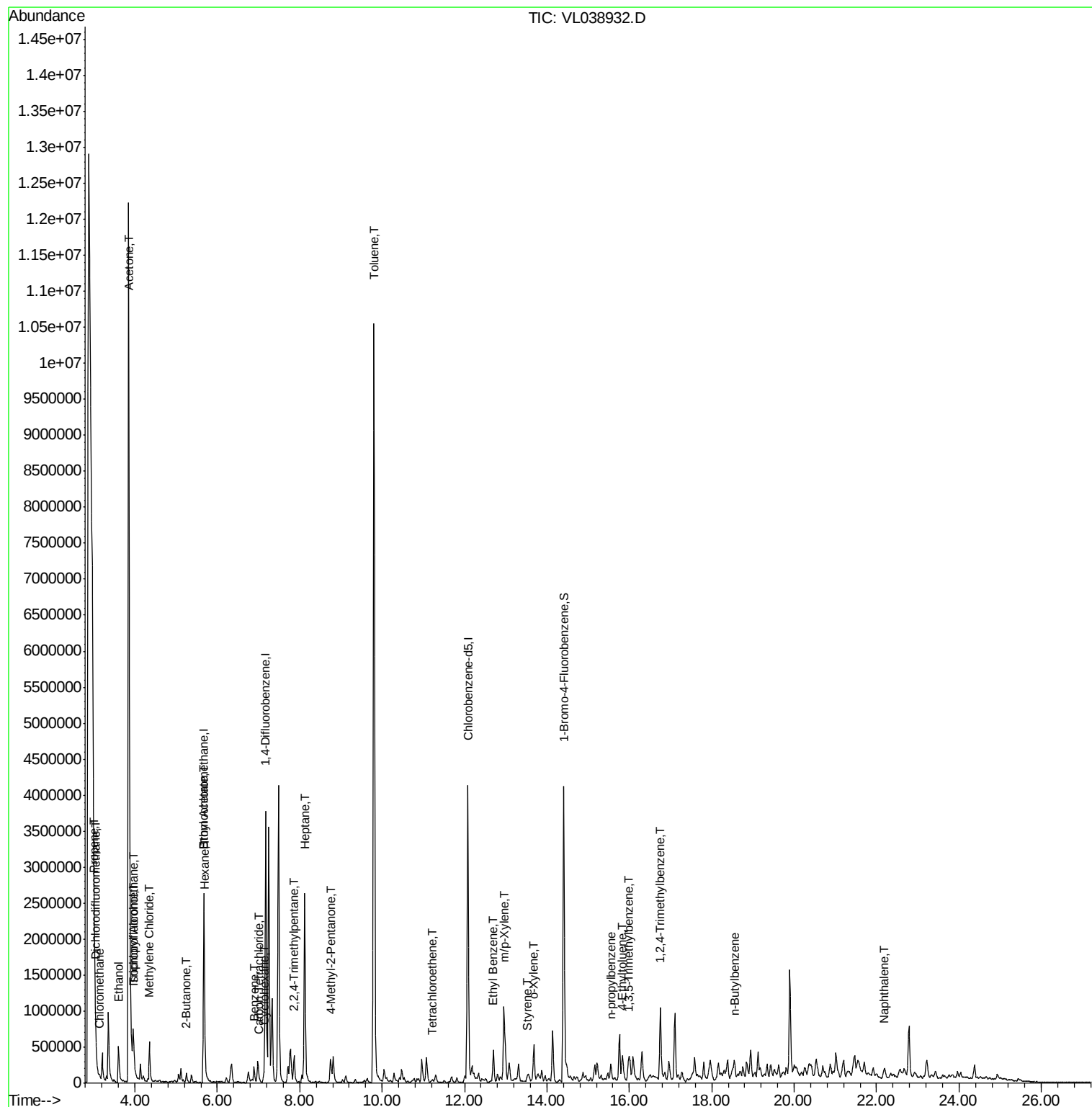
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL040522

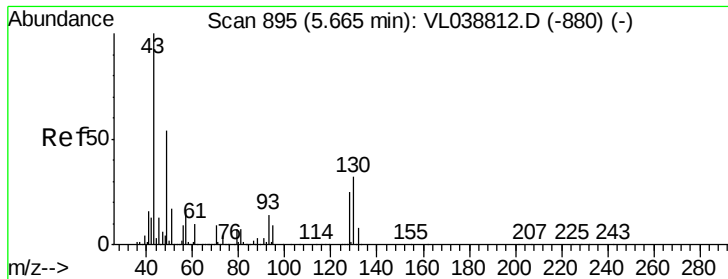
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Wed Apr 06 06:12:53 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 1165-19-1A-1

Acq: 15 Apr 2022 00:48

Tot Ion:

Ion Ratio

49 100

128 47.

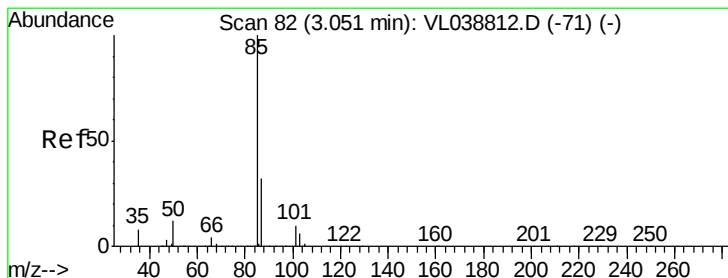
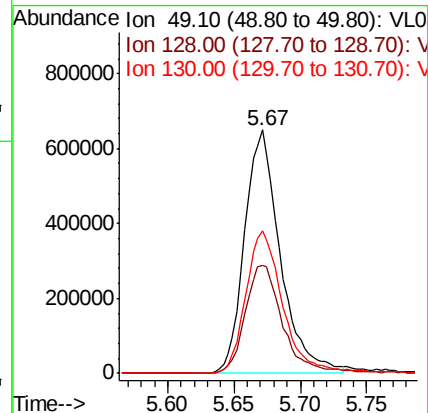
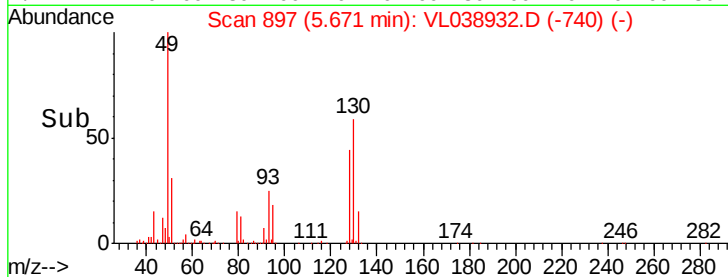
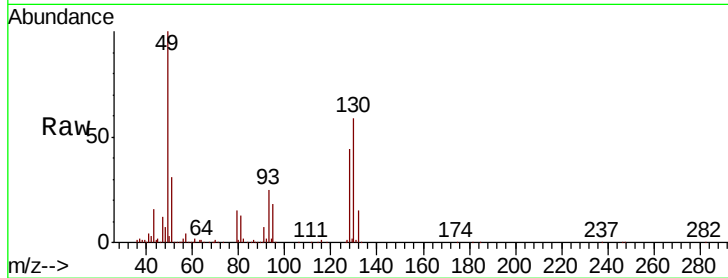
130 61.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#2

Dichlorodifluoromethane

Concen: 0.628 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL038932.D

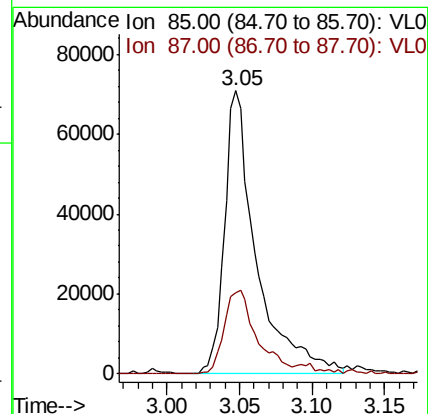
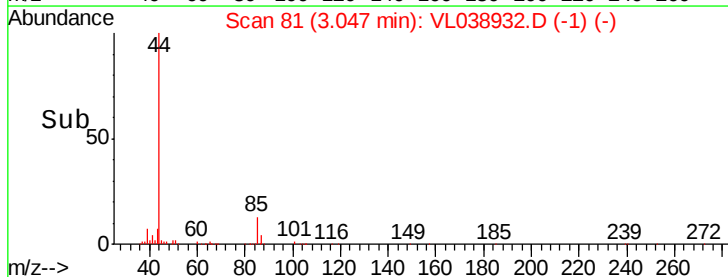
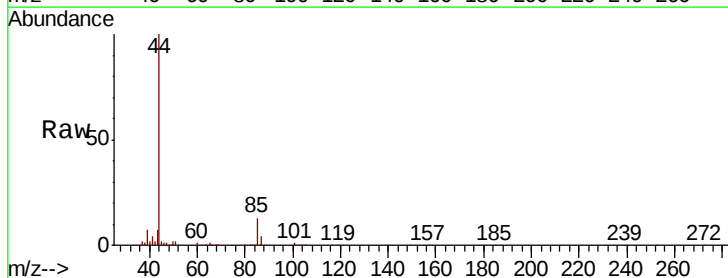
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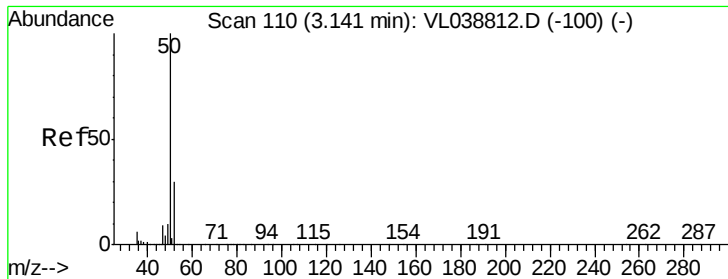
Tgt Ion: 85 Resp: 108479

Ion Ratio Lower Upper

85 100

87 28.3 25.9 38.9





#4

Chloromethane

Concen: 0.442 ppbv

RT: 3.14 Instrument: MSVOA_1

Delta R.T. 0.01 min

Lab File: ClientSampleId: 1165-19-1A-1

Acq: 15 Apr 2022 00:46

Tot Ion:

Ion Ratio

50 100

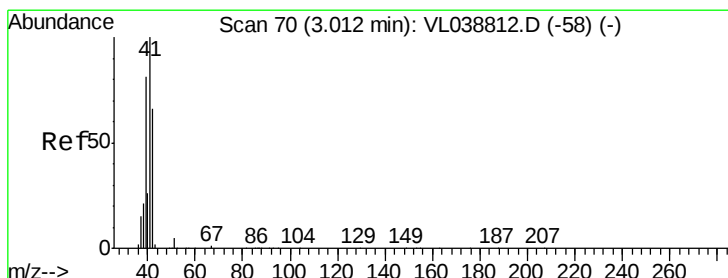
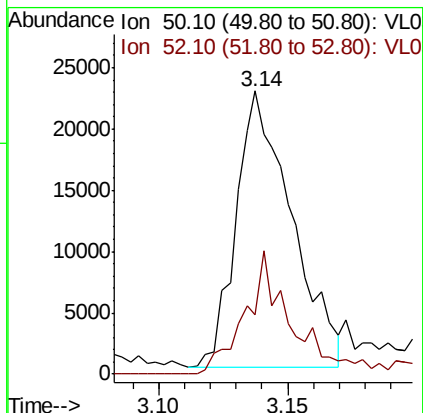
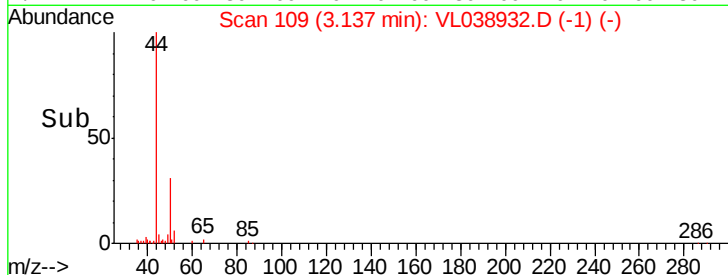
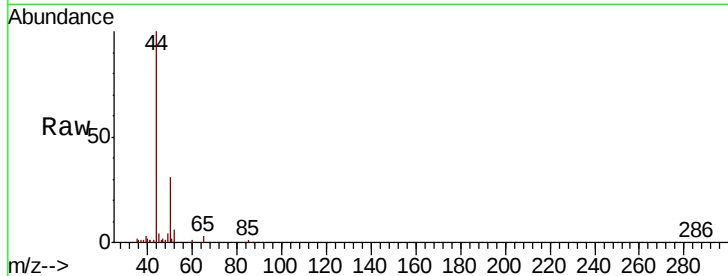
52 21.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#9

Propene

Concen: 2.581 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL038932.D

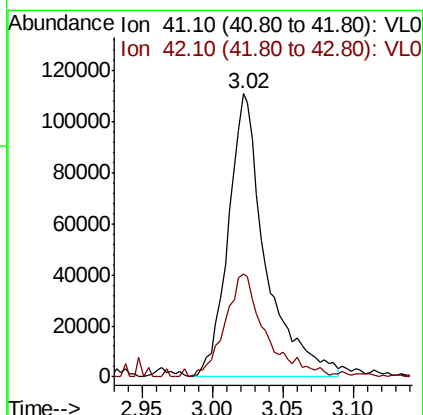
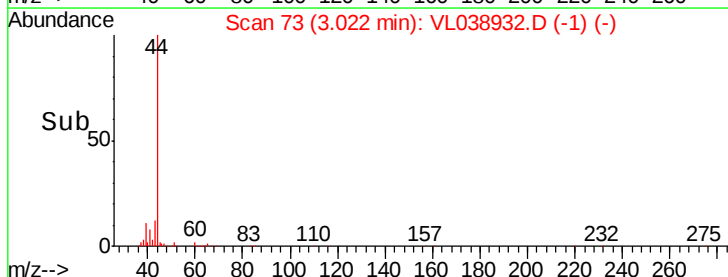
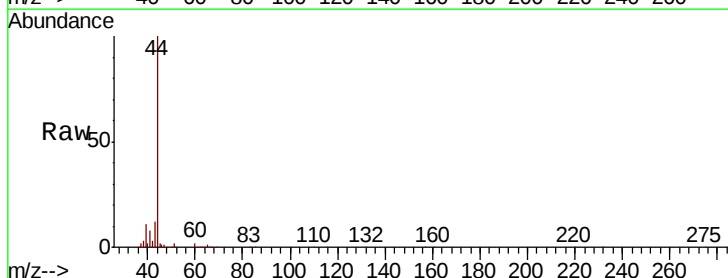
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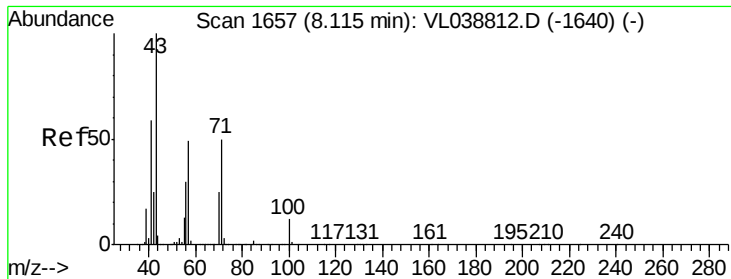
Tgt Ion: 41 Resp: 202850

Ion Ratio Lower Upper

41 100

42 41.2 54.2 81.4#



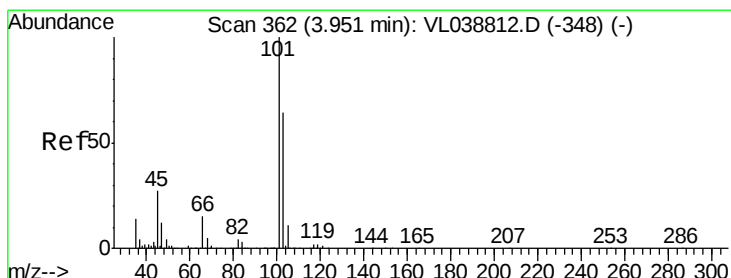
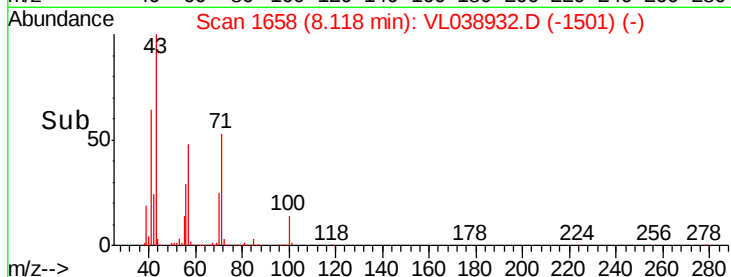
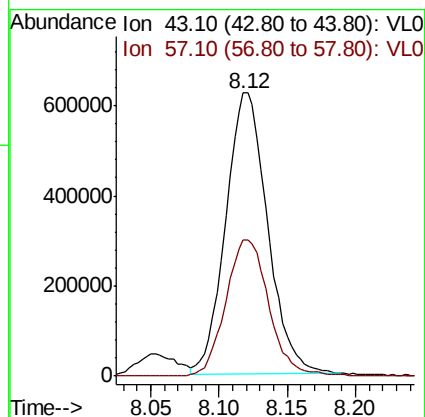
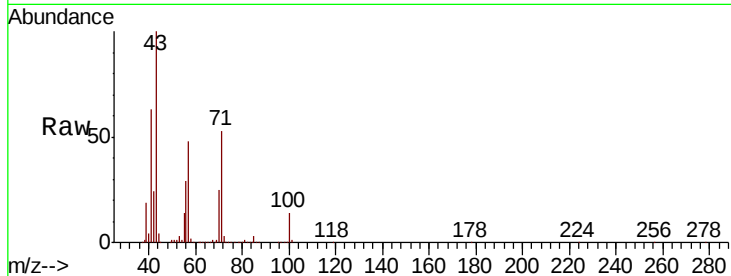


#10
 Heptane
 Concen: 6.725 ppbv
 RT: 8.12
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 00:48

Tot Ion:
 Ion Ratio
 43 100
 57 50.

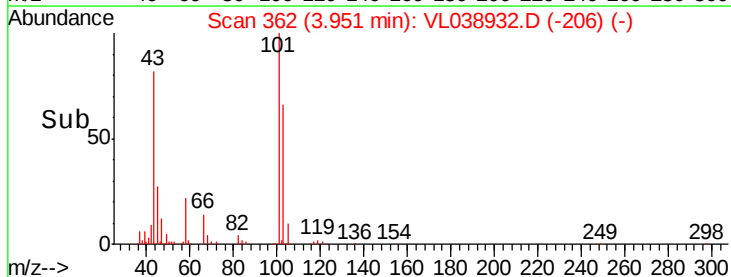
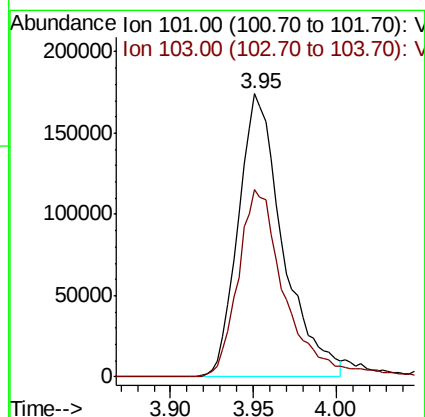
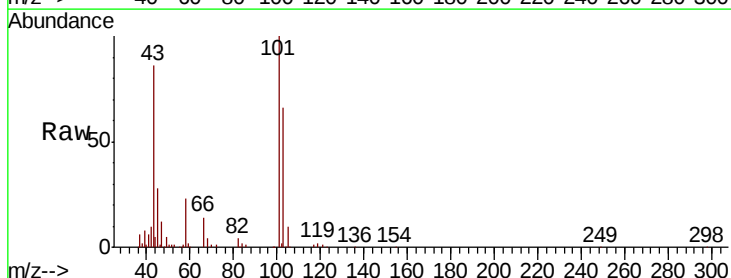
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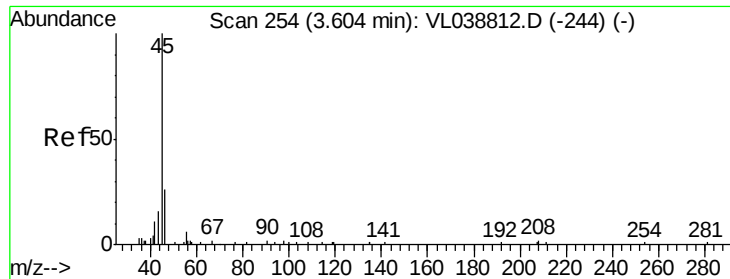
Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022



#11
 Trichlorofluoromethane
 Concen: 2.346 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL038932.D
 Acq: 15 Apr 2022 00:46

Tgt Ion:101 Resp: 325505
 Ion Ratio Lower Upper
 101 100
 103 66.1 51.4 77.0



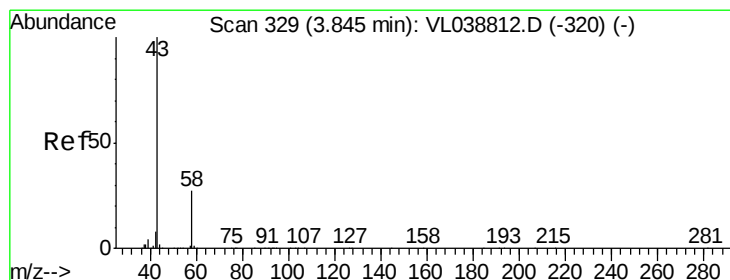
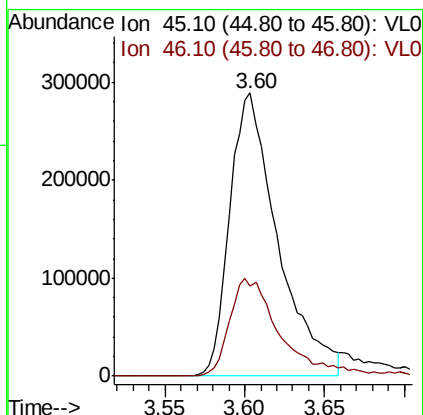
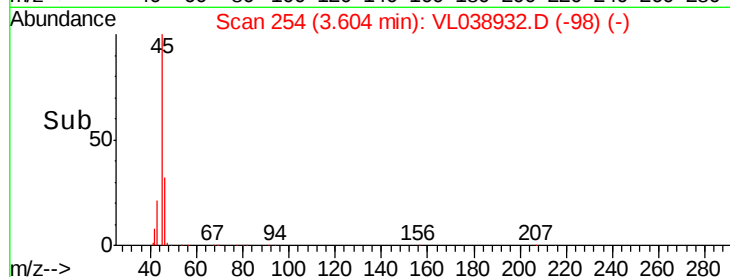
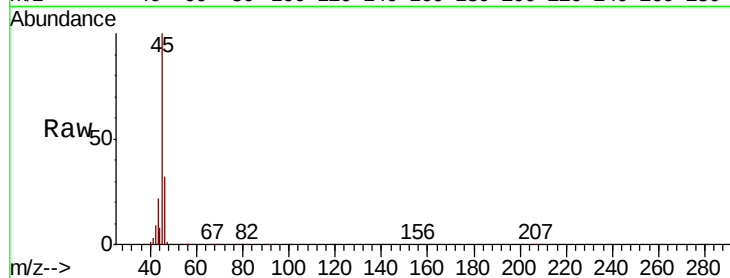


#13
Ethanol
Concen: 124.319 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 00:48

Tot Ion:
Ion Ratio
45 100
46 37.

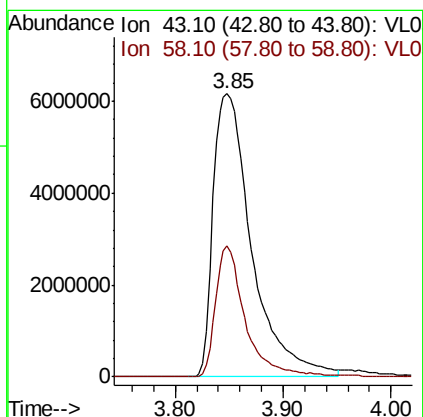
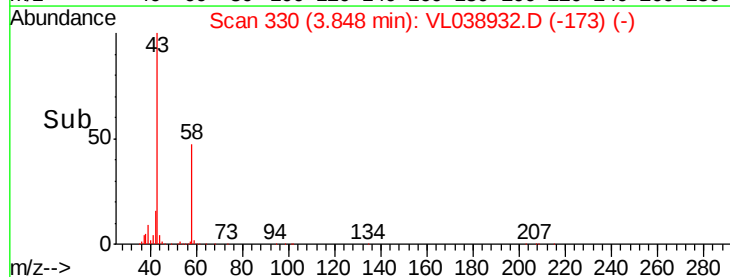
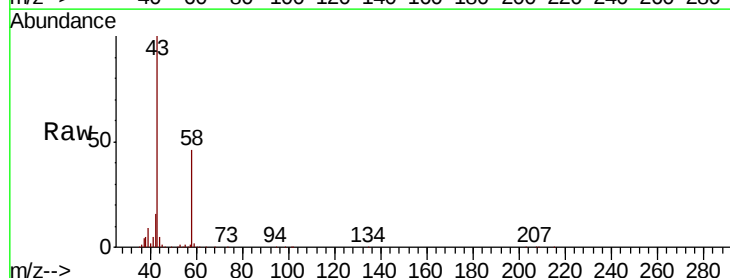
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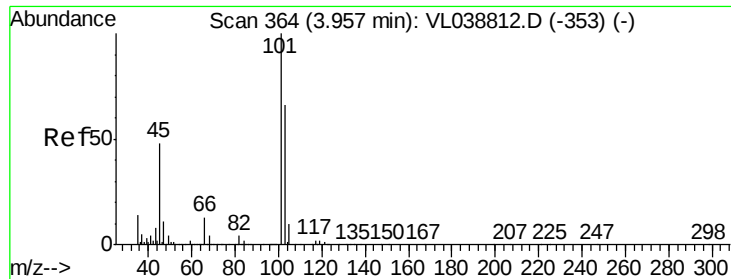
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#15
Acetone
Concen: 126.903 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.00 min
Lab File: VL038932.D
Acq: 15 Apr 2022 00:46

Tgt Ion: 43 Resp:15378868
Ion Ratio Lower Upper
43 100
58 36.5 22.5 33.7#





#19

Isopropyl Alcohol

Concen: 5.529 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Apr 2022 00:46

Tot Ion:

Ion Ratio

45 100

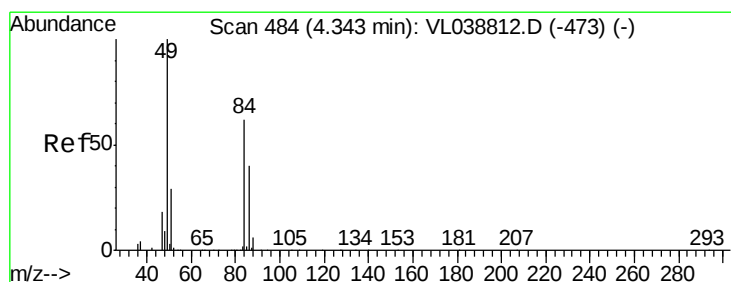
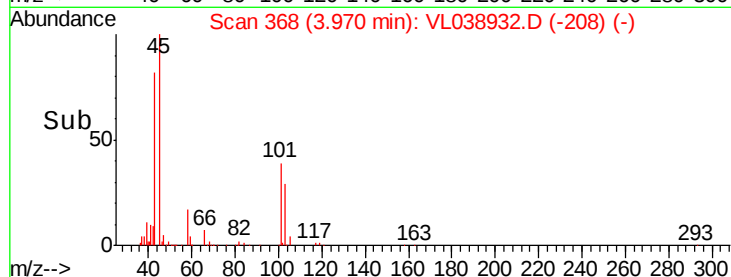
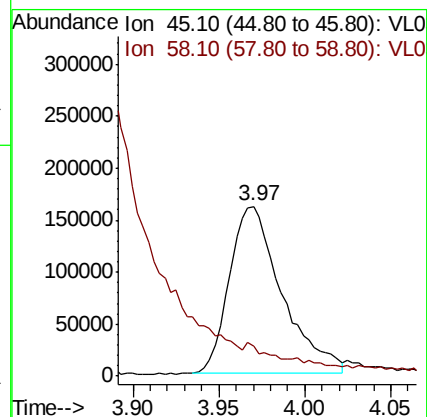
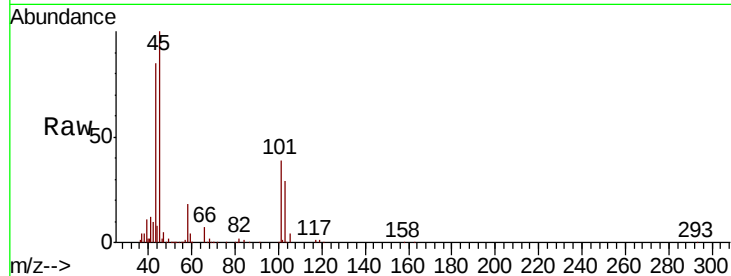
58 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#20

Methylene Chloride

Concen: 4.537 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL038932.D

Acq: 15 Apr 2022 00:46

Tgt Ion: 84 Resp: 199406

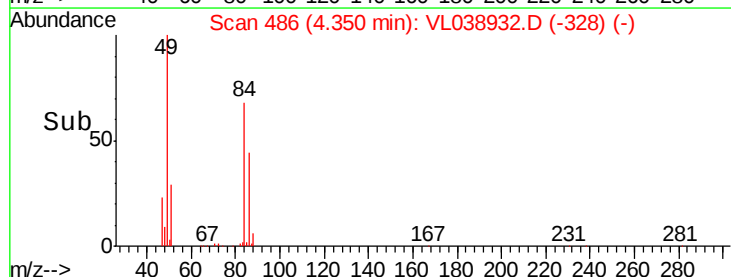
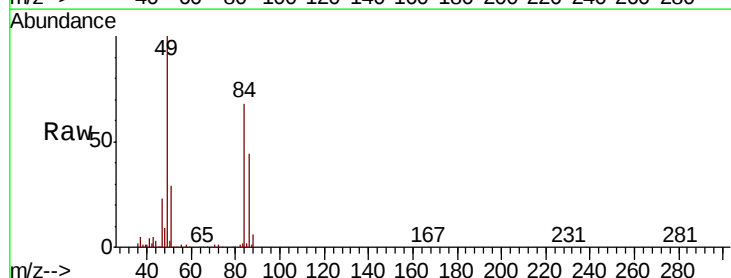
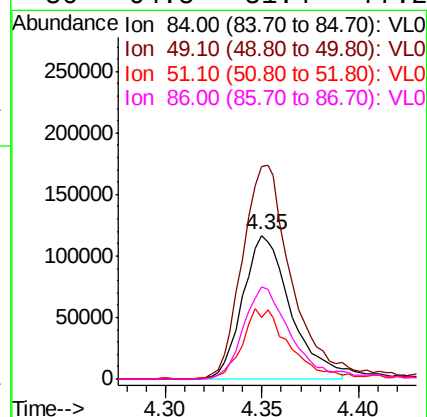
Ion Ratio Lower Upper

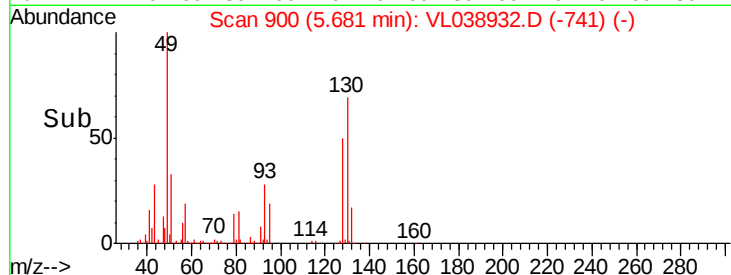
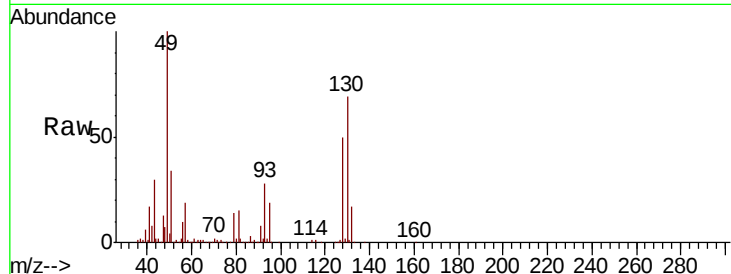
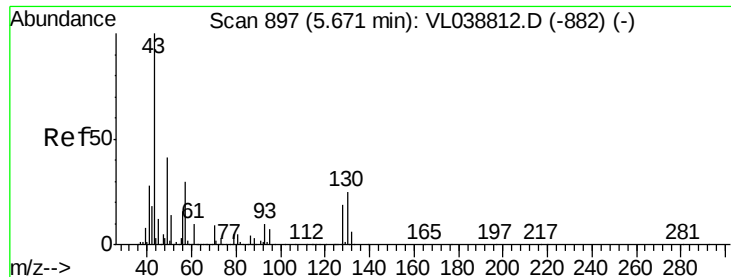
84 100

49 147.8 129.4 194.0

51 42.6 37.4 56.2

86 64.5 51.4 77.2



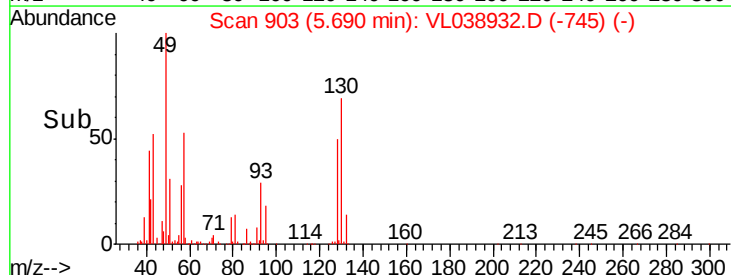
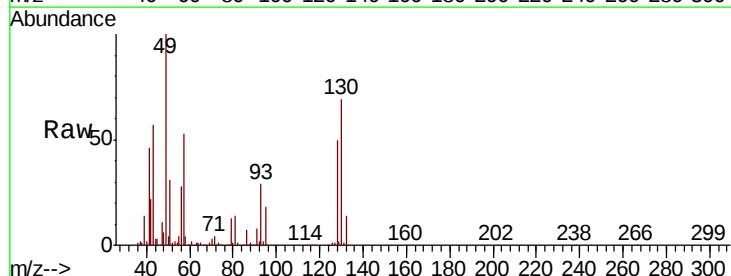
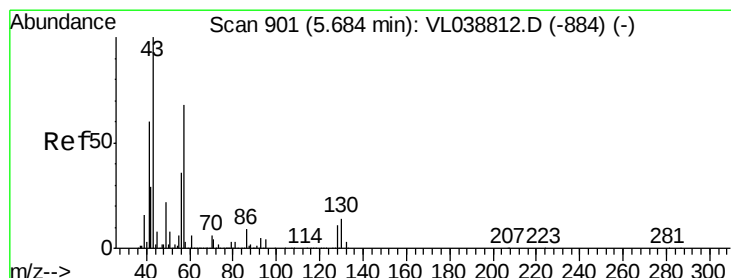
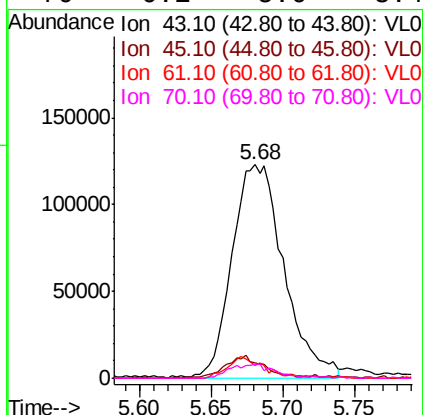


#25
Ethyl Acetate
Concen: 1.004 ppbv m
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Apr 2022 00:46

Tot Ion:
Ion Ratio
43 100
45 8.
61 7.
70 6.1 5.6 8.4

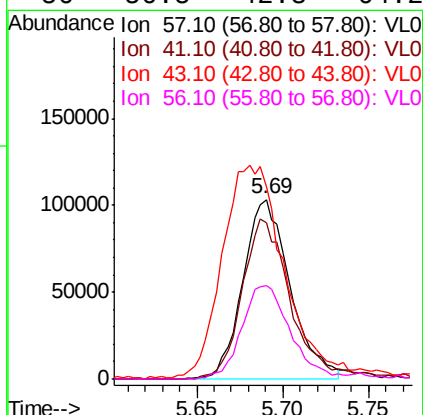
Manual Integrations
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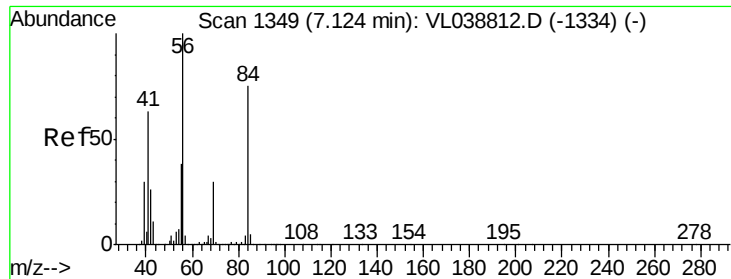
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#26
Hexane
Concen: 1.410 ppbv
RT: 5.69 min Scan# 903
Delta R.T.: 0.01 min
Lab File: VL038932.D
Acq: 15 Apr 2022 00:46

Tgt Ion: 57 Resp: 197306
Ion Ratio Lower Upper
57 100
41 94.2 72.0 108.0
43 158.6 186.6 280.0#
56 56.5 42.8 64.2



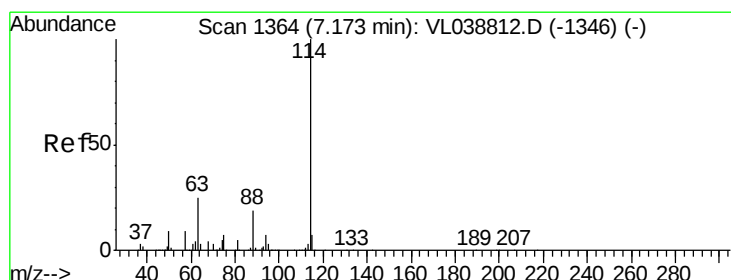
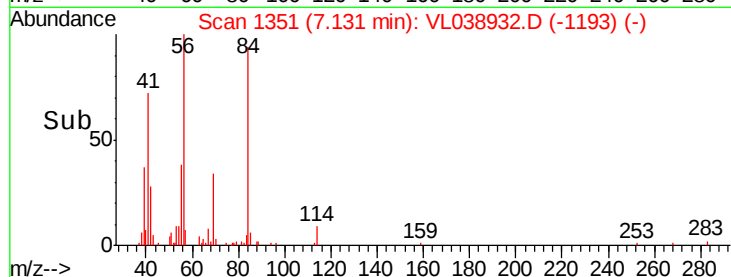
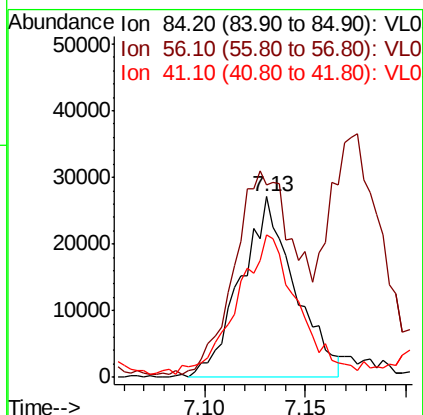
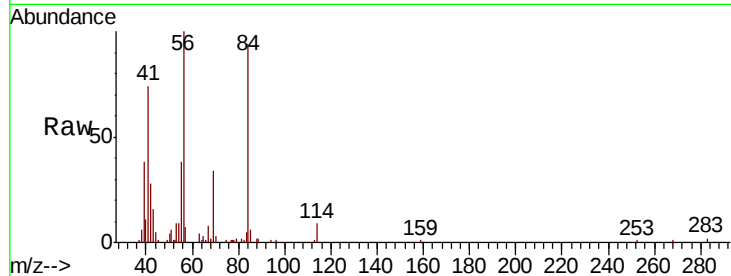


#30
Cvclohexane
Concen: 0.410 ppbv
RT: 7.13
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 00:40

Tot Ion:
Ion Ratio
84 100
56 126.
41 86.

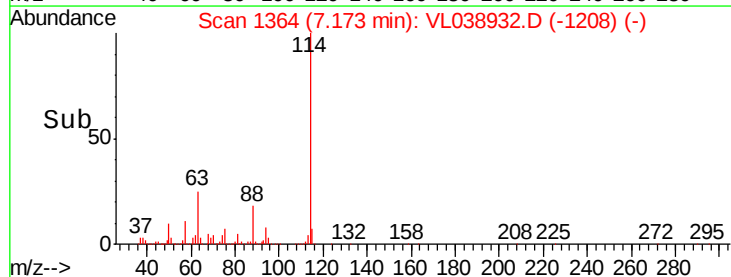
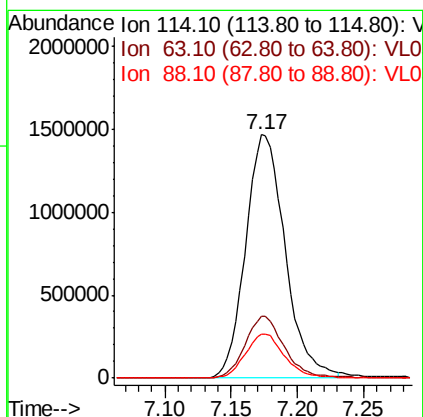
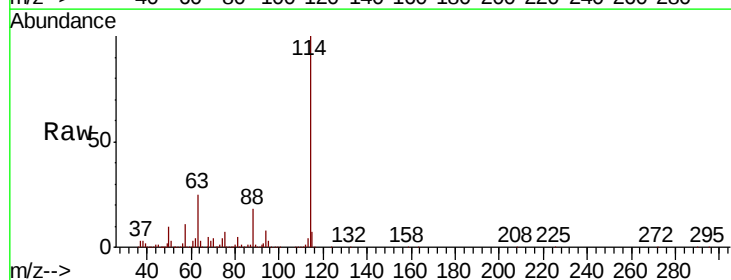
Manual Integrations
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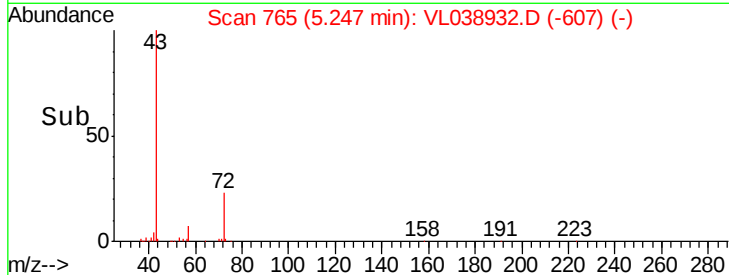
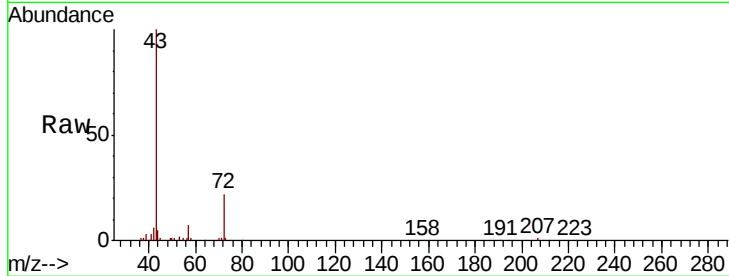
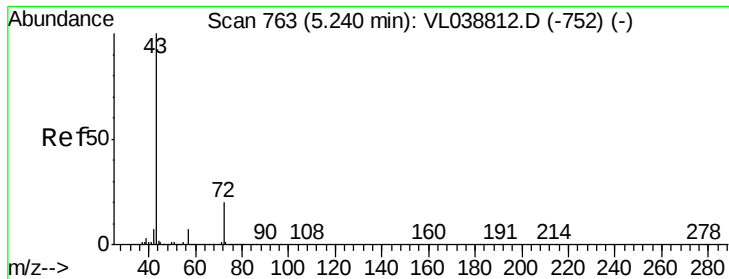
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.00 min
Lab File: VL038932.D
Acq: 15 Apr 2022 00:46

Tgt Ion:114 Resp: 3048170
Ion Ratio Lower Upper
114 100
63 25.4 19.8 29.8
88 18.1 14.2 21.4



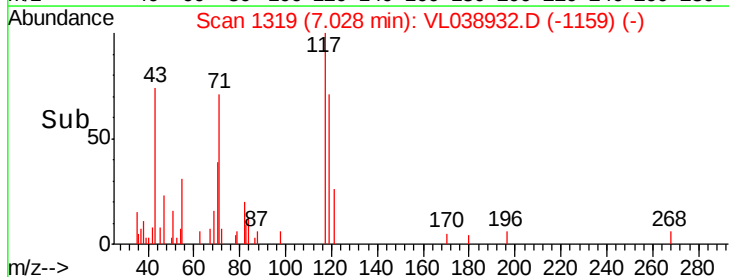
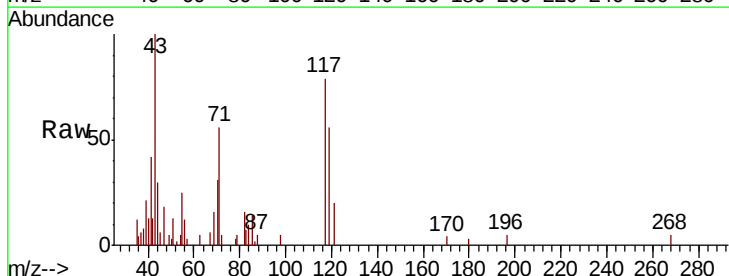
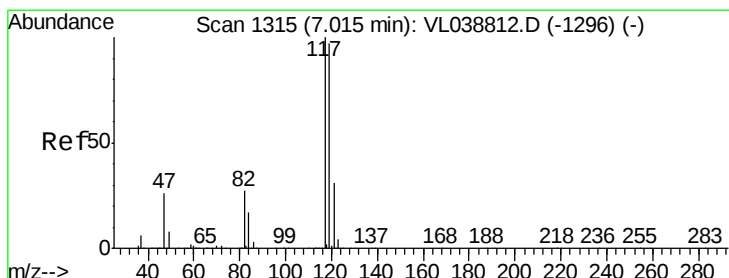
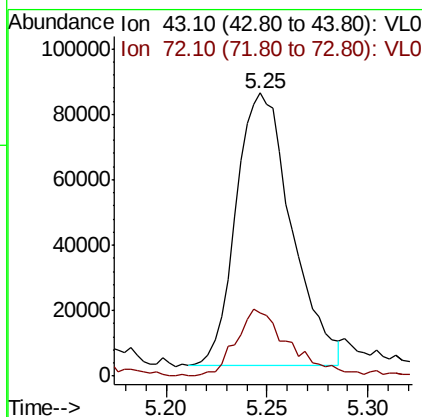


#34
2-Butanone
Concen: 1.327 ppbv
RT: 5.25
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 15 Apr 2022 00:40

Tot Ion:
Ion Ratio
43 100
72 24.

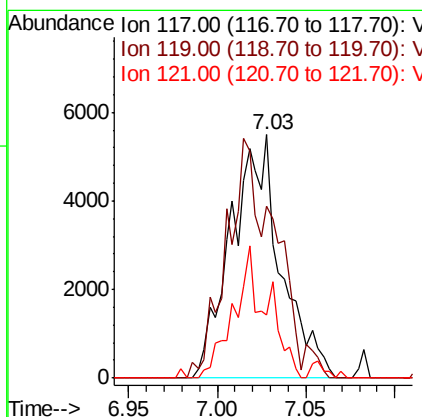
Manual Integrations
APPROVED

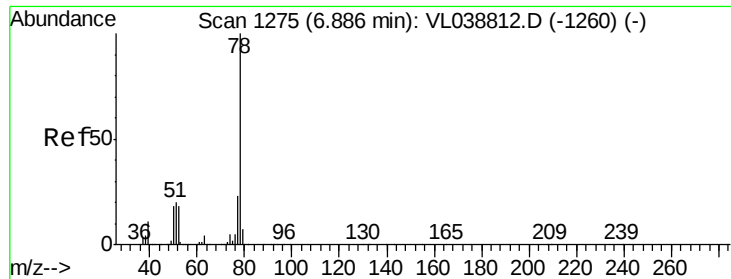
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#35
Carbon Tetrachloride
Concen: 0.059 ppbv m
RT: 7.03 min Scan# 1319
Delta R.T. 0.01 min
Lab File: VL038932.D
Acq: 15 Apr 2022 00:46

Tgt Ion:117 Resp: 10711
Ion Ratio Lower Upper
117 100
119 70.6 77.7 116.5#
121 25.9 24.5 36.7



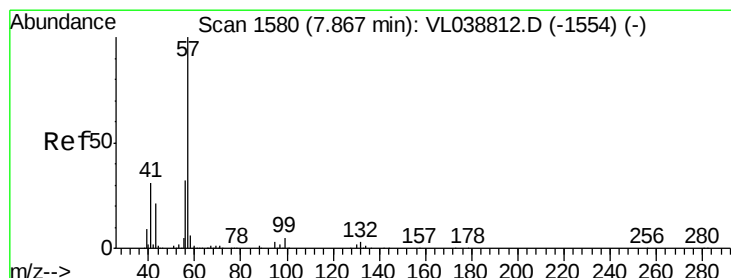
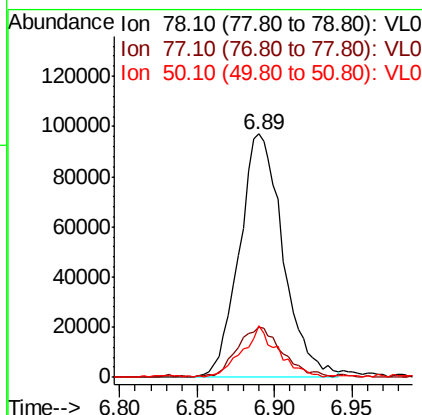
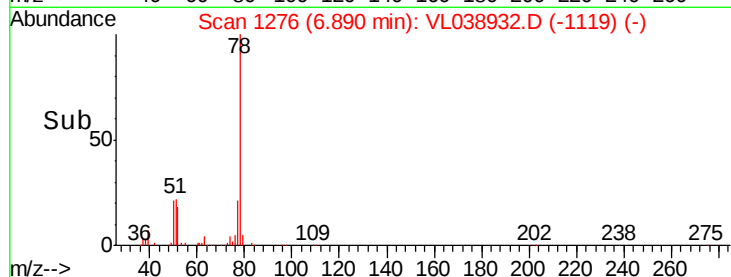
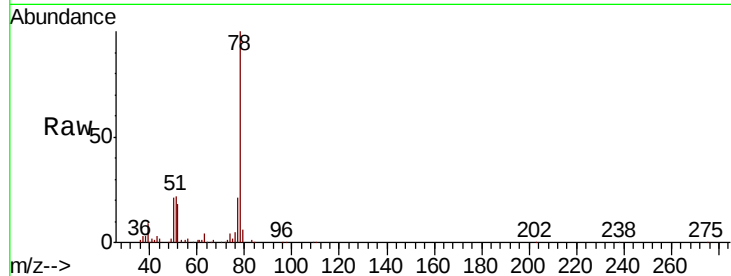


#36
Benzene
Concen: 0.687 ppbv
RT: 6.89
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 15 Apr 2022 00:46

Tot Ion:
Ion Ratio
78 100
77 20.
50 20.

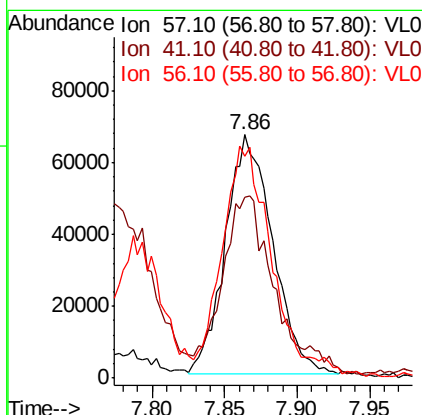
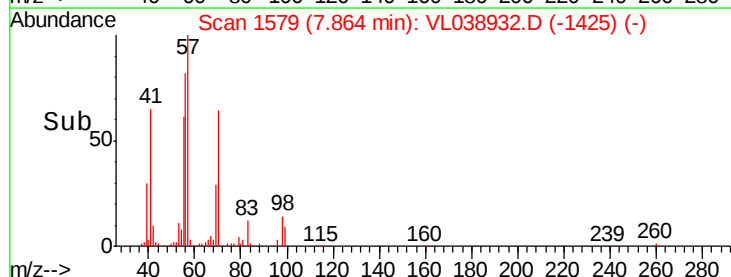
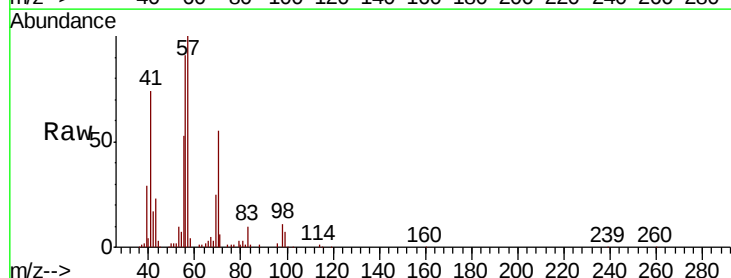
Manual Integrations
APPROVED

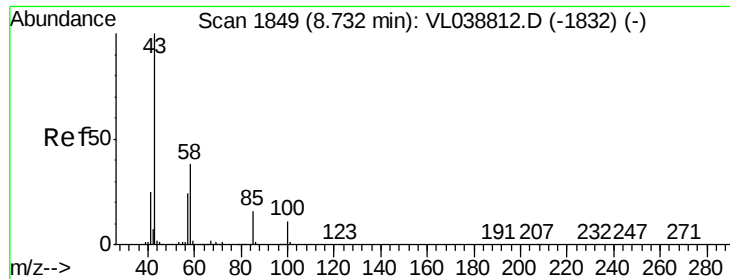
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#44
2,2,4-Trimethylpentane
Concen: 0.323 ppbv
RT: 7.86 min Scan# 1579
Delta R.T. -0.00 min
Lab File: VL038932.D
Acq: 15 Apr 2022 00:46

Tgt Ion: 57 Resp: 151662
Ion Ratio Lower Upper
57 100
41 81.3 25.0 37.4#
56 101.0 25.3 37.9#



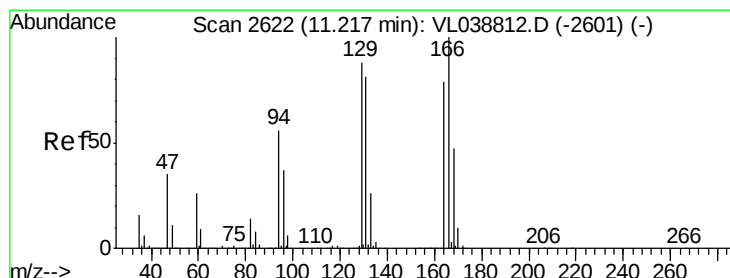
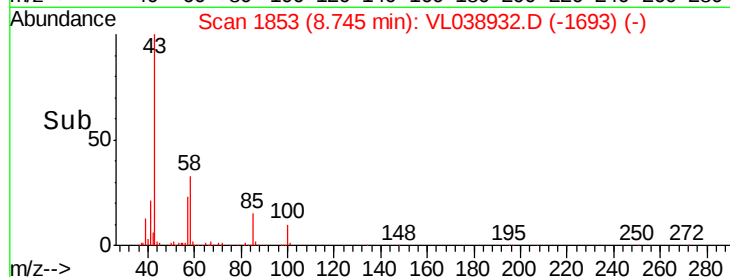
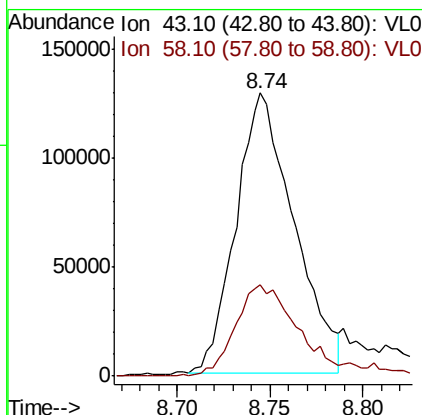
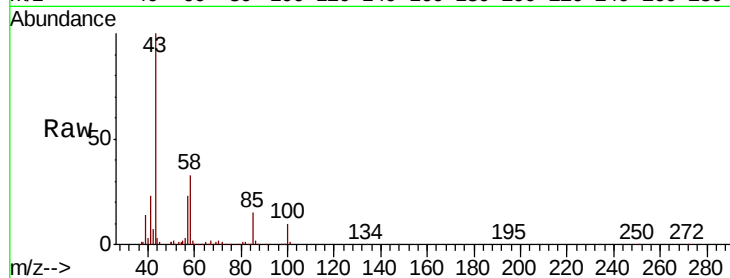


#50
4-Methyl-2-Pentanone
Concen: 1.039 ppbv
RT: 8.74
Delta R.T.: MSVOA_L
Lab File: ClientSampleId : 1165-19-1A-1
Acq: 15 Apr 2022 00:46

Tot Ion:
Ion Ratio
43 100
58 38.

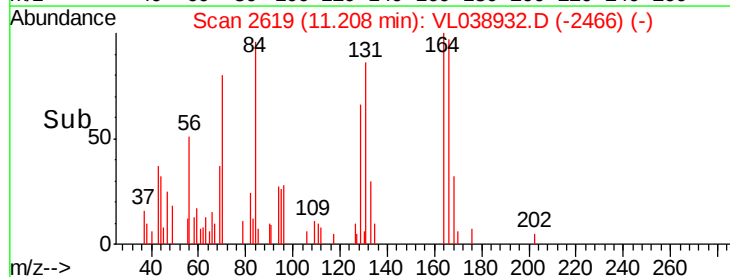
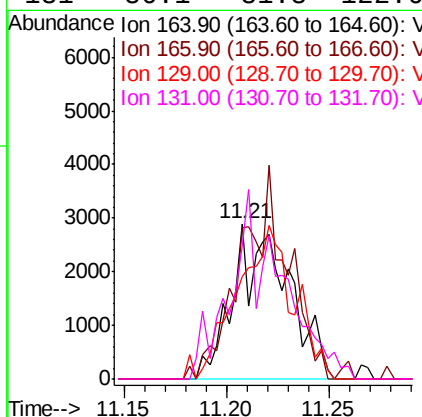
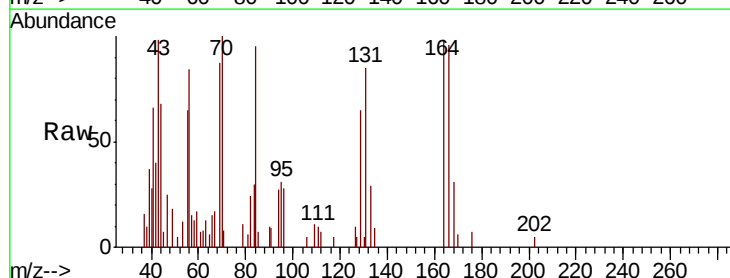
Manual Integrations
APPROVED

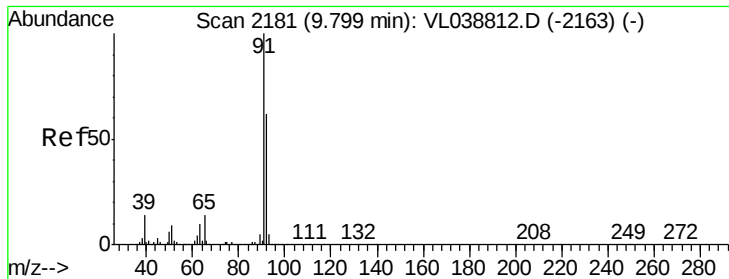
Reviewed By : Semsettin Yesilyurt 04/15/2022
Supervised By : Mahesh Dadoda 04/18/2022



#52
Tetrachloroethene
Concen: 0.056 ppbv m
RT: 11.21 min Scan# 2619
Delta R.T.: -0.01 min
Lab File: VL038932.D
Acq: 15 Apr 2022 00:46

Tgt Ion: 164 Resp: 5442
Ion Ratio Lower Upper
164 100
166 97.4 101.0 151.6#
129 65.8 88.7 133.1#
131 86.1 81.8 122.6





#53

Toluene

Concen: 28.970 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Apr 2022 00:40

Tot Ion:

Ion Ratio

91 100

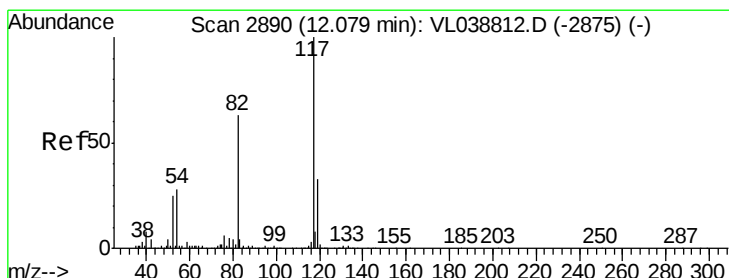
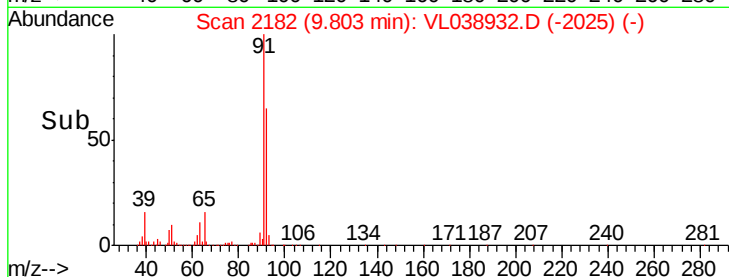
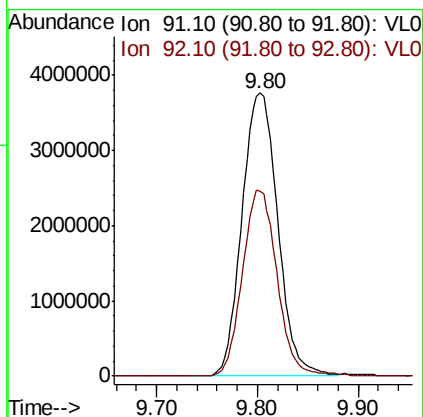
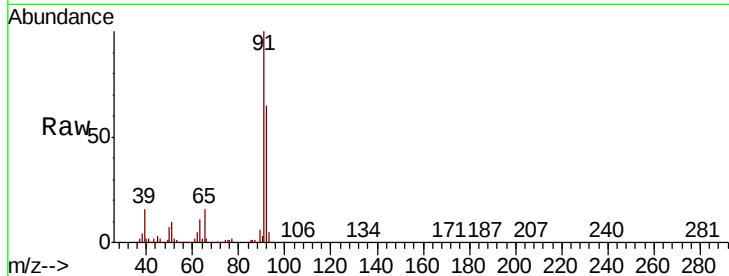
92 63.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.00 min

Lab File: VL038932.D

Acq: 15 Apr 2022 00:46

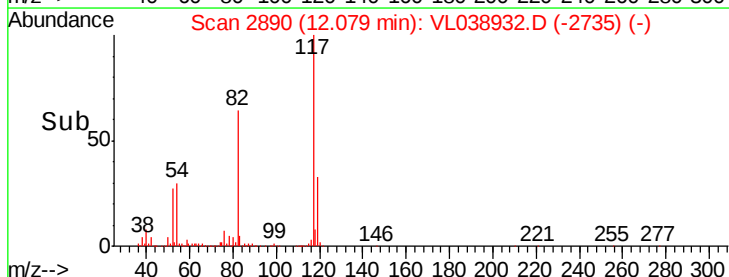
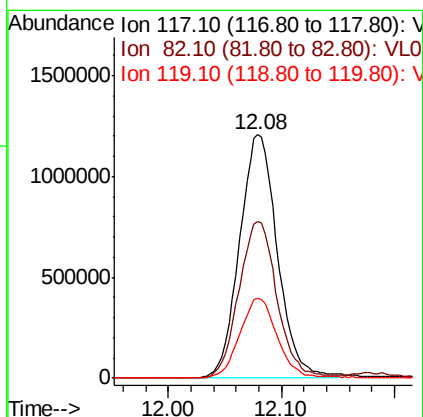
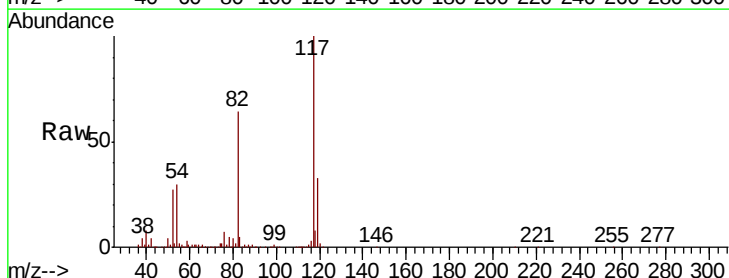
Tgt Ion:117 Resp: 2809365

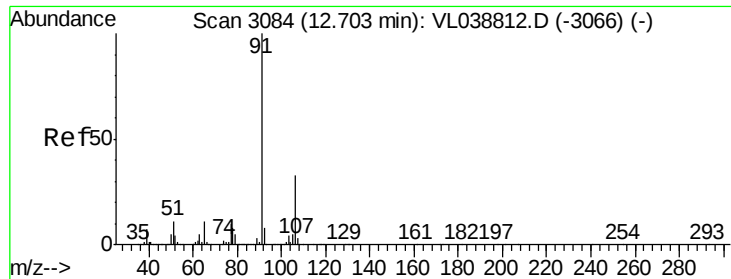
Ion Ratio Lower Upper

117 100

82 64.9 53.0 79.6

119 32.7 24.9 37.3



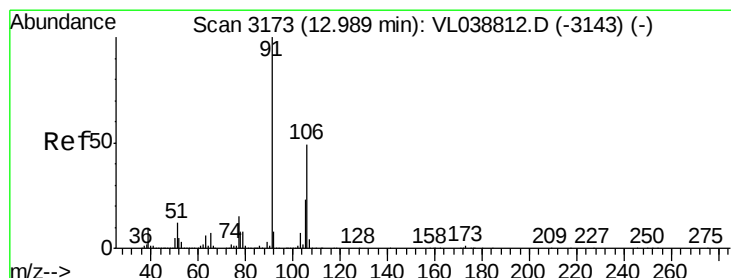
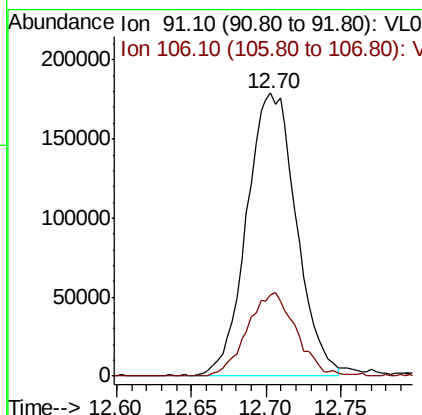
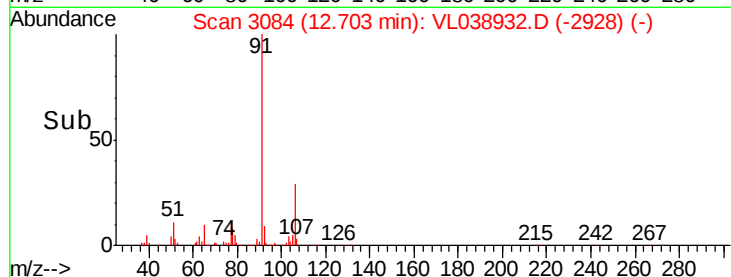
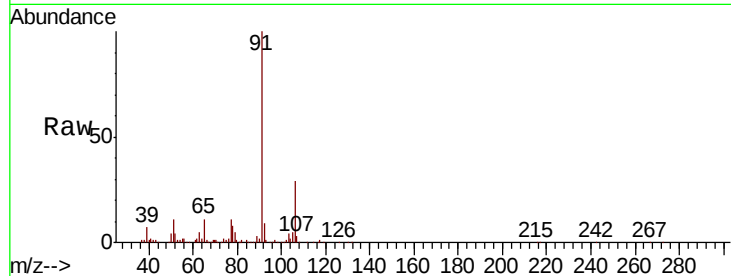


#58
Ethyl Benzene
Concen: 0.981 ppbv
RT: 12.70 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampled:
1165-19-1A-1
Acq: 15 Apr 2022 00:46

Tot Ion:
Ion Ratio
91 100
106 28.

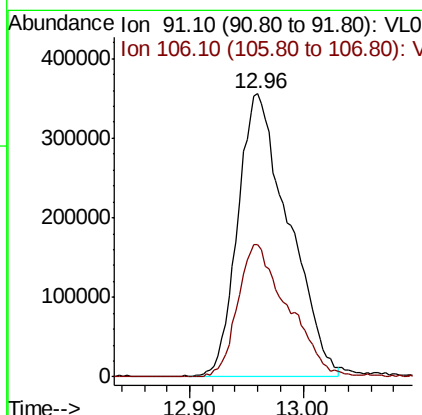
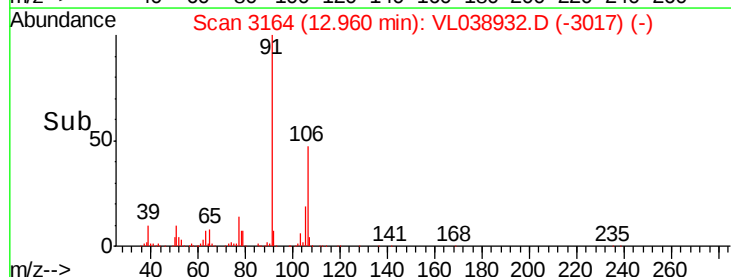
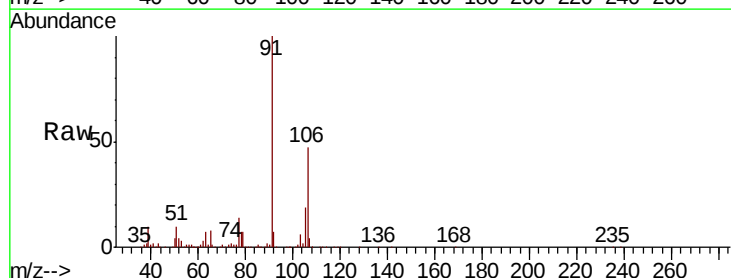
Manual Integrations
APPROVED

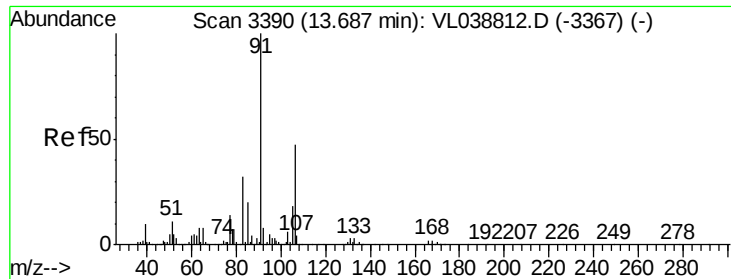
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#59
m/p-Xylene
Concen: 3.145 ppbv
RT: 12.96 min Scan# 3164
Delta R.T. -0.03 min
Lab File: VL038932.D
Acq: 15 Apr 2022 00:46

Tgt Ion: 91 Resp: 1109353
Ion Ratio Lower Upper
91 100
106 46.5 37.1 55.7





#60
o-Xylene
Concen: 1.328 ppbv
RT: 13.68 min
Delta R.T.: 0.00 min
Lab File: VL038812.D
Acq: 15 Apr 2022 00:46

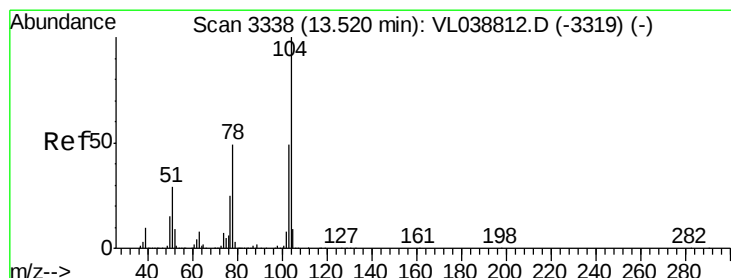
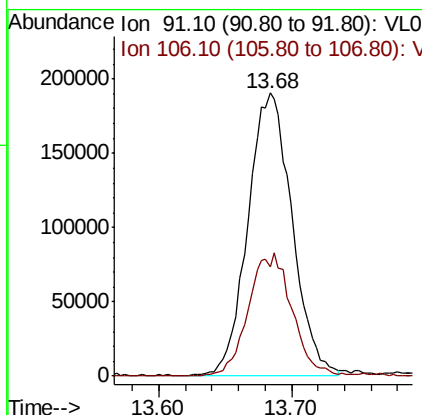
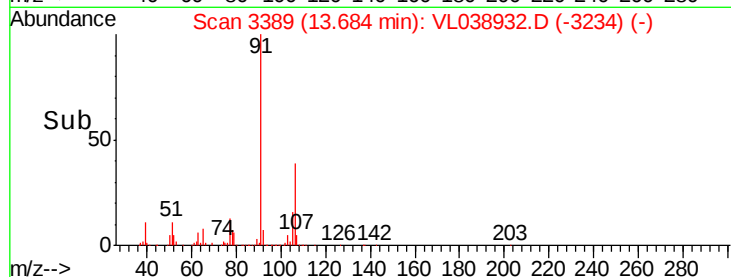
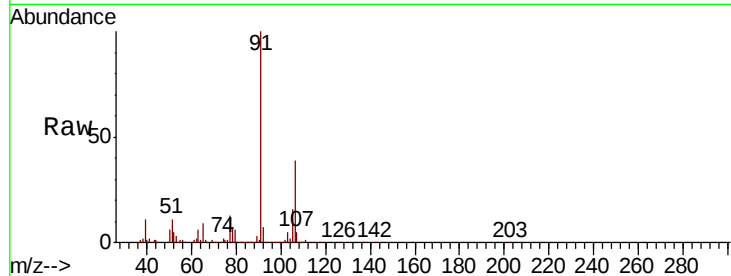
Instrument: MSVOA_1

Client Sample ID: 1165-19-1A-1

Tot Ion:
Ion Ratio
91 100
106 43.

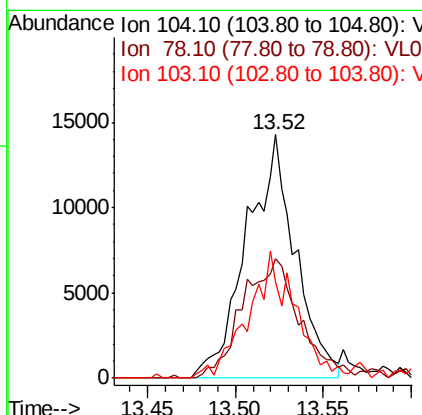
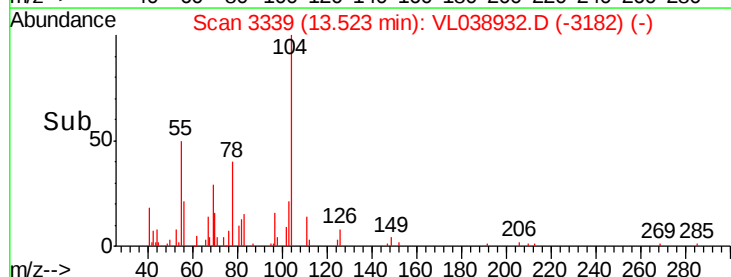
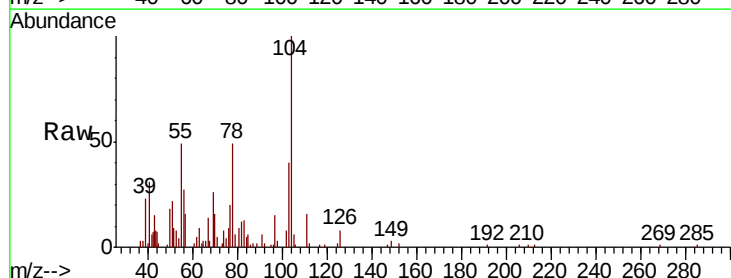
Manual Integrations
APPROVED

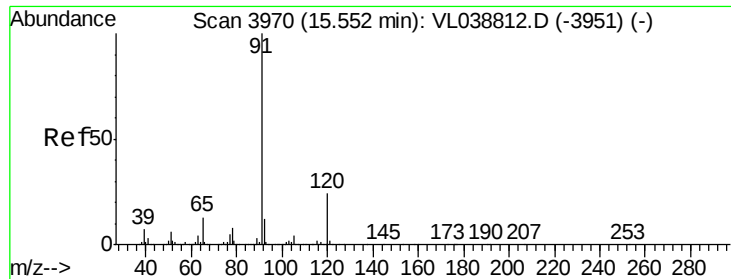
Reviewed By : Semsettin Yesilyurt 04/15/2022
Supervised By : Mahesh Dadoda 04/18/2022



#61
Styrene
Concen: 0.136 ppbv m
RT: 13.52 min Scan# 3339
Delta R.T.: 0.00 min
Lab File: VL038932.D
Acq: 15 Apr 2022 00:46

Tgt Ion: 104 Resp: 27389
Ion Ratio Lower Upper
104 100
78 59.3 40.5 60.7
103 52.2 39.0 58.4



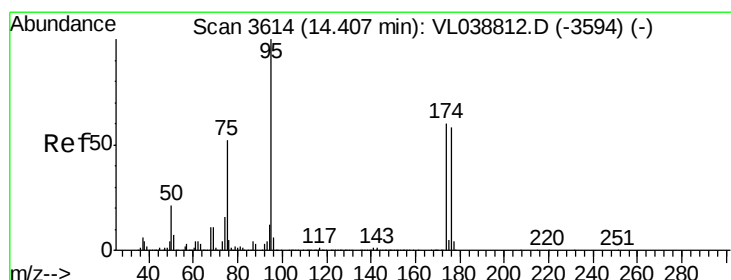
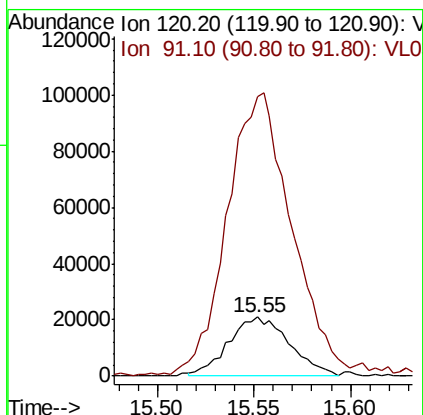
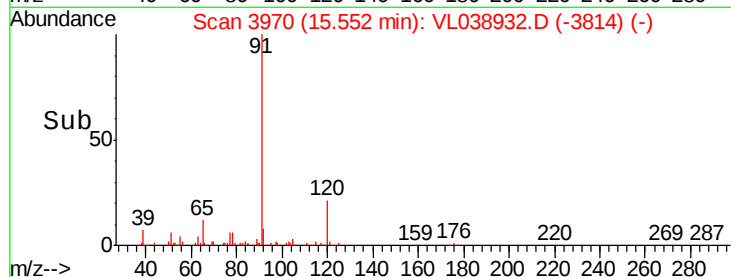
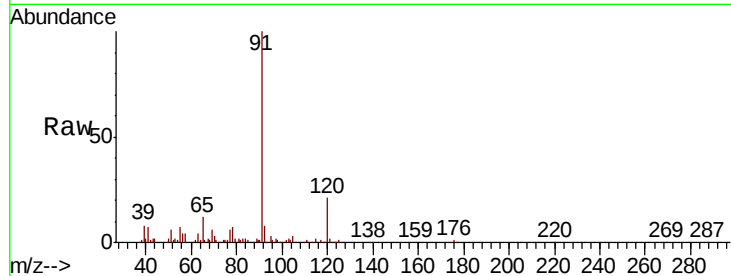


#64
n-propylbenzene
Concen: 0.359 ppbv
RT: 15.55 min
Delta R.T. 0.00 min
Lab File: VL038932.D
Acq: 15 Apr 2022 00:46

Tot Ion: 1
Ion Ratio
120 100
91 504.

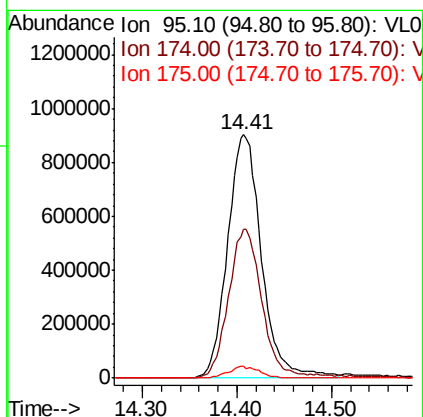
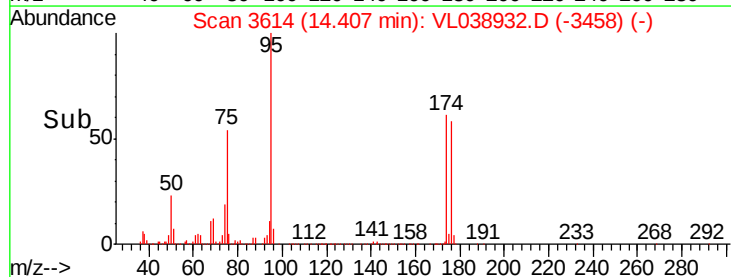
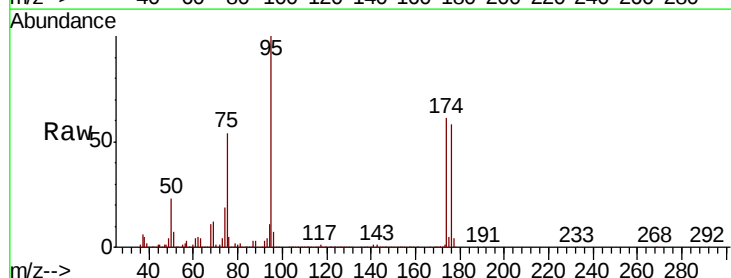
Manual Integrations
APPROVED

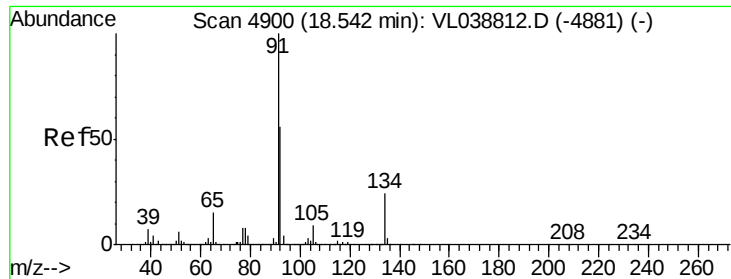
Reviewed By : Semsettin Yesilyurt 04/15/2022
Supervised By : Mahesh Dadoda 04/18/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.563 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. 0.00 min
Lab File: VL038932.D
Acq: 15 Apr 2022 00:46

Tgt Ion: 95 Resp: 2250905
Ion Ratio Lower Upper
95 100
174 61.8 52.0 78.0
175 4.7 4.0 6.0



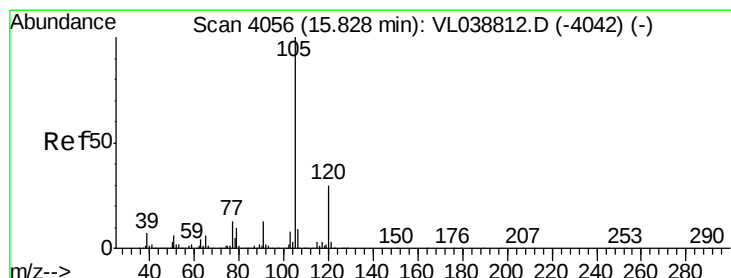
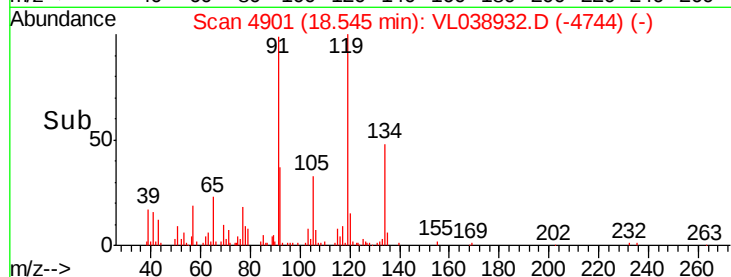
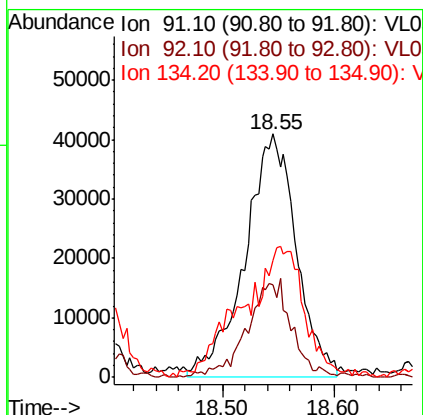
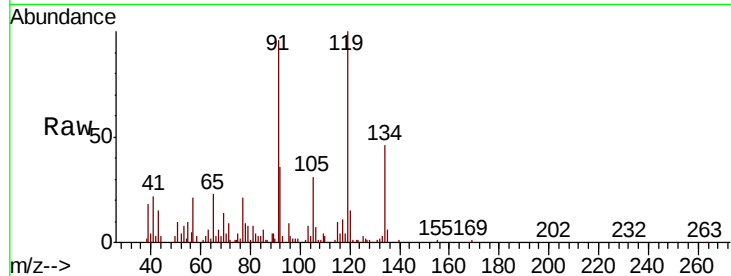


#70
n-Butylbenzene
Concen: 0.258 ppbv m
RT: 18.55
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Apr 2022 00:40

Tot Ion:
Ion Ratio
91 100
92 0.
134 0.

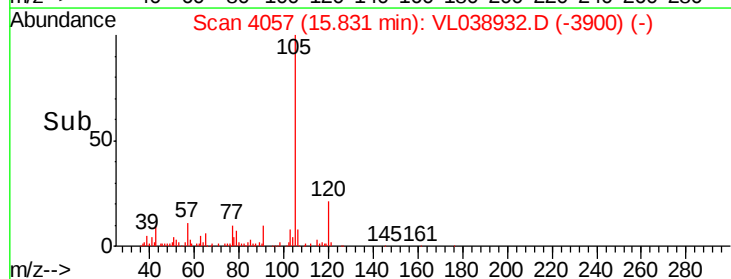
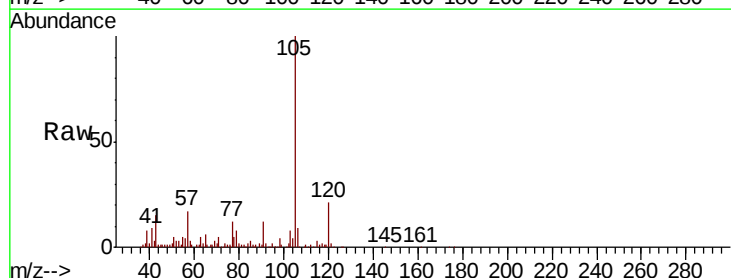
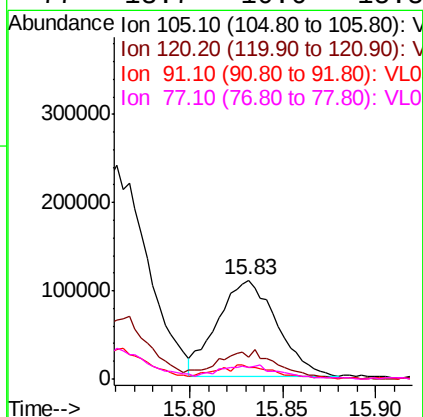
Manual Integrations
APPROVED

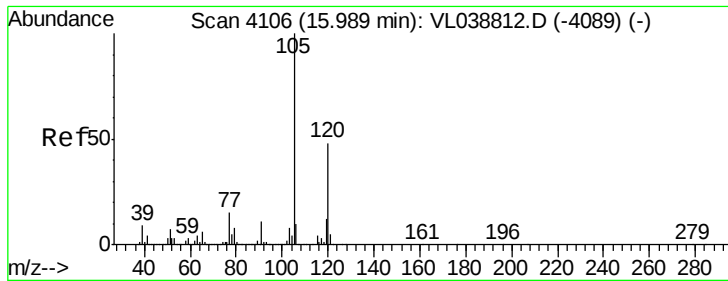
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#72
4-Ethyltoluene
Concen: 0.614 ppbv
RT: 15.83 min Scan# 4057
Delta R.T. 0.00 min
Lab File: VL038932.D
Acq: 15 Apr 2022 00:46

Tgt Ion:105 Resp: 242152
Ion Ratio Lower Upper
105 100
120 28.2 24.3 36.5
91 13.5 9.4 14.2
77 13.7 10.6 15.8



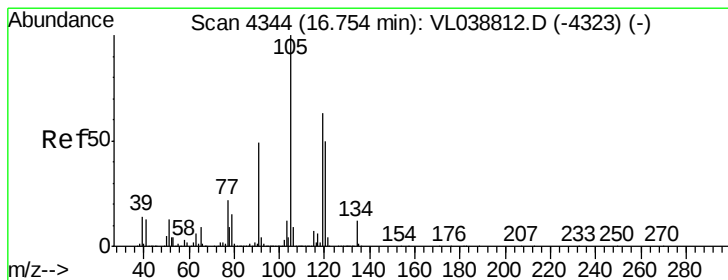
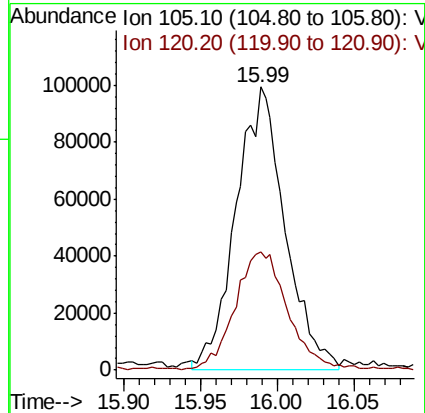
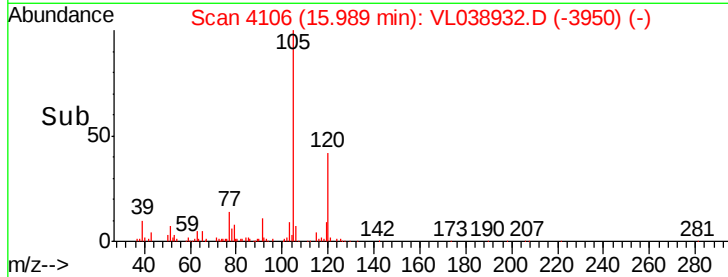
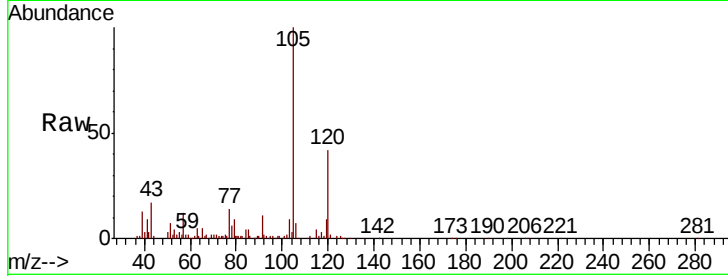


#73
 1,3,5-Trimethylbenzene
 Concen: 0.628 ppbv m
 RT: 15.99
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 1165-19-1A-1
 Acq: 15 Apr 2022 00:40

Tot Ion:1
 Ion Rati
 105 100
 120 41.

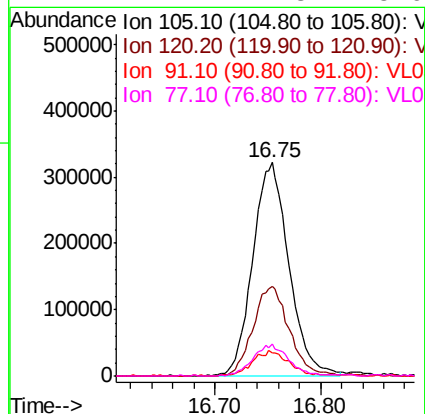
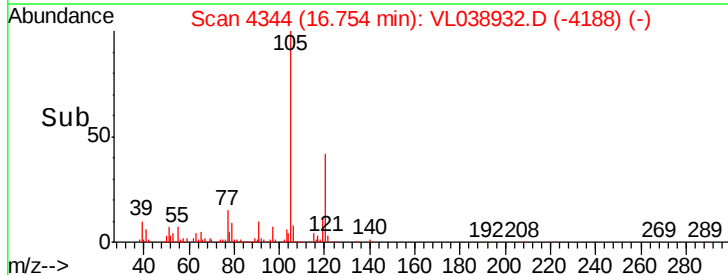
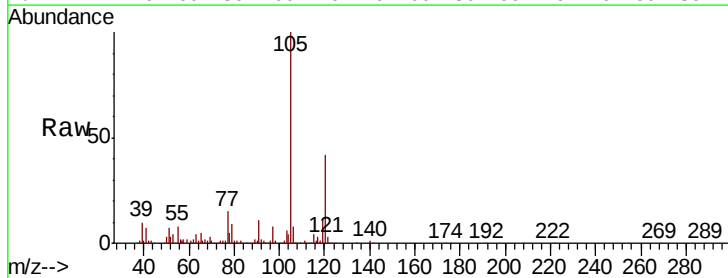
Manual Integrations
 APPROVED

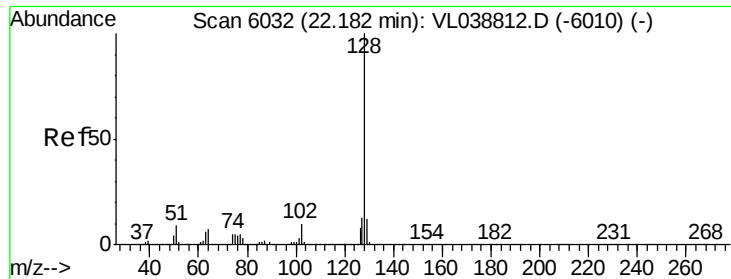
Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022



#74
 1,2,4-Trimethylbenzene
 Concen: 2.054 ppbv
 RT: 16.75 min Scan# 4344
 Delta R.T. -0.00 min
 Lab File: VL038932.D
 Acq: 15 Apr 2022 00:46

Tgt Ion:105 Resp: 768612
 Ion Ratio Lower Upper
 105 100
 120 42.2 39.8 59.8
 91 10.5 39.4 59.0#
 77 14.7 17.3 25.9#





#79

Naphthalene

Concen: 0.201 ppbv m

RT: 22.19

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 15 Apr 2022 00.40

Tot Ion:1

Ion Rati

128 100

127 17.

129 16.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022

