

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
 Data File : VL038856.D
 Acq On : 8 Apr 2022 00:47
 Operator : SY/AP
 Sample : N2273-07
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 1160-1-SG-4

Manual Integrations
 APPROVED

Quant Time: Apr 08 09:43:39 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

Reviewed By : Semsettin Yesilyurt 04/09/2022
 Supervised By : Mahesh Dadoda 04/11/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1093564	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	7.22	114	3003955	10.00	ppbv	0.05
55) Chlorobenzene-d5	12.13	117	2696238	10.00	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2134541	10.44	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.08	85	17766m	0.115	ppbv	
3) Chlorodifluoromethane	3.01	51	44631m	0.334	ppbv	
4) Chloromethane	3.17	50	36179	0.524	ppbv	98
9) Propene	3.05	41	6956660m	98.520	ppbv	
10) Heptane	8.16	43	1748310	9.830	ppbv	96
11) Trichlorofluoromethane	3.98	101	33293	0.267	ppbv	98
13) Ethanol	3.65	45	2852285	664.692	ppbv #	100
15) Acetone	3.89	43	52410099m	481.383	ppbv	
17) tert-Butyl alcohol	4.35	59	44481m	0.456	ppbv	
19) Isopropyl Alcohol	4.01	45	6104089	109.696	ppbv #	100
20) Methylene Chloride	4.39	84	145606	3.688	ppbv	96
25) Ethyl Acetate	5.71	43	8292679	30.018	ppbv #	89
30) Cyclohexane	7.17	84	249297	2.249	ppbv	96
34) 2-Butanone	5.29	43	5478995	46.158	ppbv	98
35) Carbon Tetrachloride	7.06	117	10403m	0.058	ppbv	
36) Benzene	6.94	78	308059	1.127	ppbv	97
44) 2,2,4-Trimethylpentane	7.91	57	1135681	2.455	ppbv #	1
50) 4-Methyl-2-Pentanone	8.78	43	5010051	18.765	ppbv	97
52) Tetrachloroethene	11.27	164	108439	1.136	ppbv	92
53) Toluene	9.85	91	10292142	32.625	ppbv	97
58) Ethyl Benzene	12.75	91	4683947	11.626	ppbv	96
59) m/p-Xylene	13.01	91	12668207	37.426	ppbv	94
60) o-Xylene	13.73	91	4325269	13.656	ppbv	98
61) Styrene	13.57	104	8092228	41.936	ppbv	96
62) Isopropylbenzene	14.71	105	215846	0.454	ppbv	99
64) n-propylbenzene	15.60	120	224731m	1.821	ppbv	
65) tert-Butylbenzene	16.80	119	363153	0.861	ppbv #	62
67) sec-Butylbenzene	17.33	105	89363m	0.151	ppbv	
72) 4-Ethyltoluene	15.88	105	1472506	3.893	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	1145049	3.370	ppbv	94
74) 1,2,4-Trimethylbenzene	16.80	105	3411785	9.499	ppbv #	70
79) Naphthalene	22.24	128	47721m	0.178	ppbv	

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

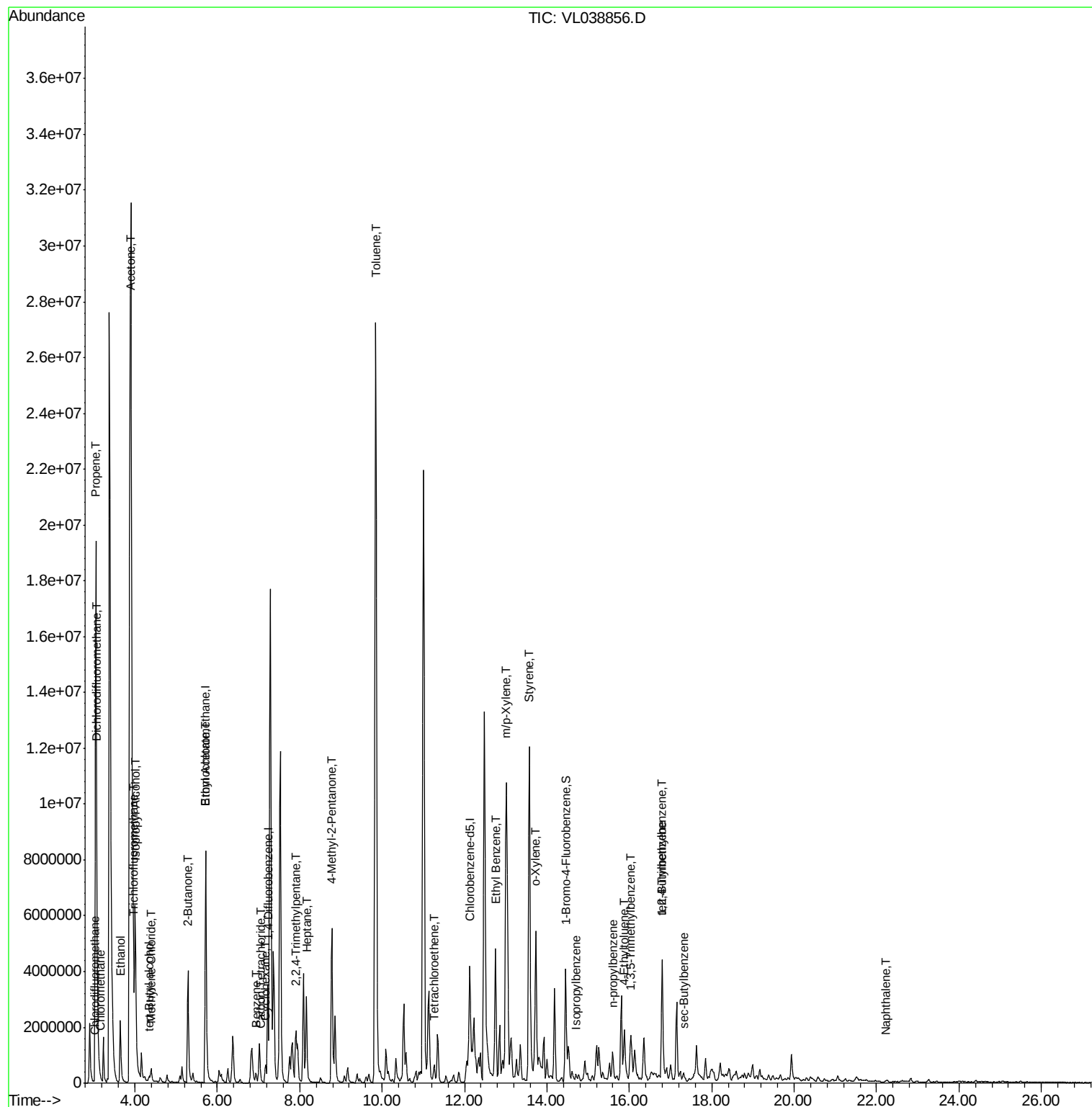
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040722\
Data File : VL038856.D
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ALS Vial : 1 Sample Multiplier: 1

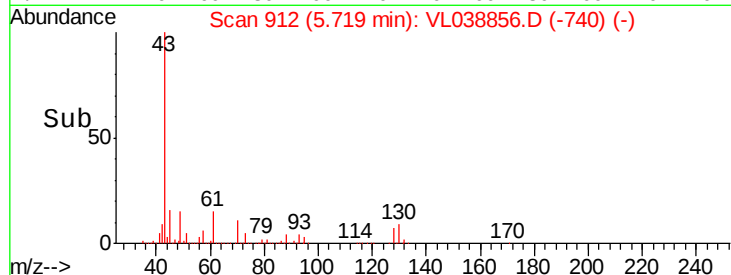
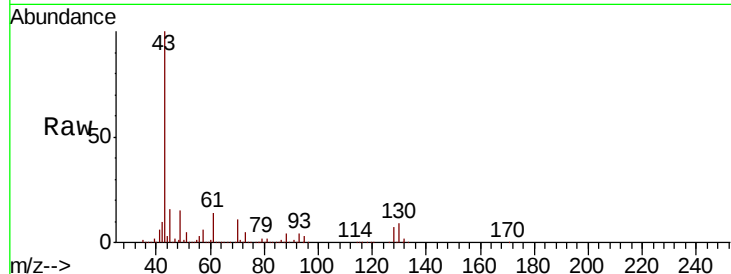
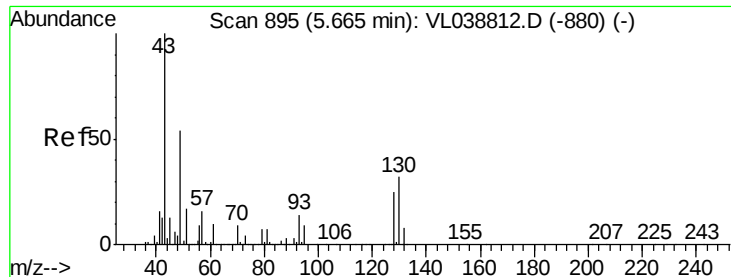
Instrument :
MSVOA_L
ClientSampleId :
1160-1-SG-4

Quant Time: Apr 08 09:43:39 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

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



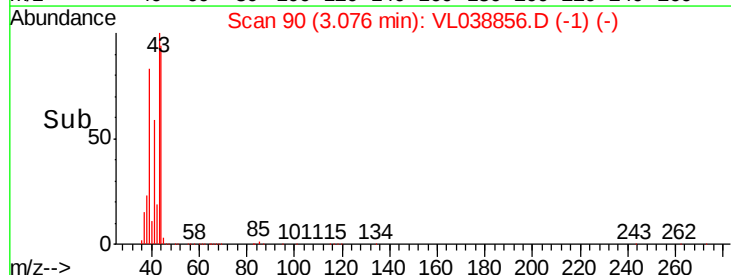
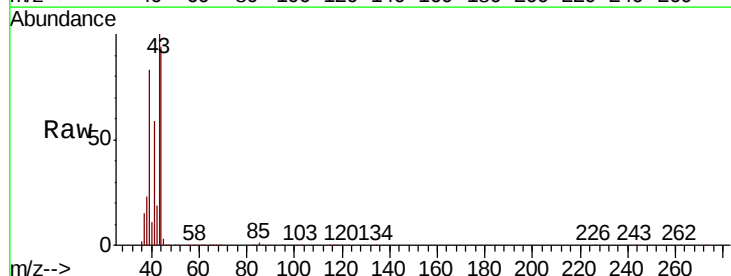
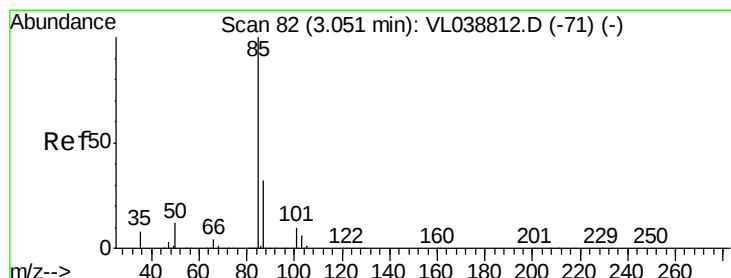
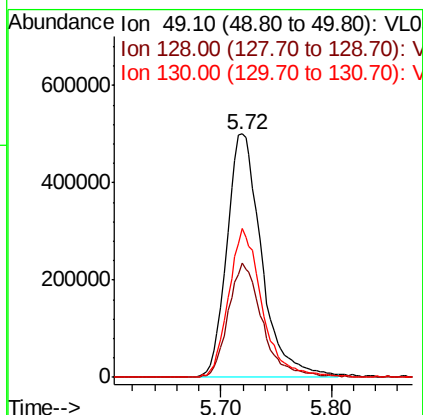


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.72
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 8 Apr 2022 00:47

Tot Ion:
Ion Ratio
49 100
128 46.
130 59.

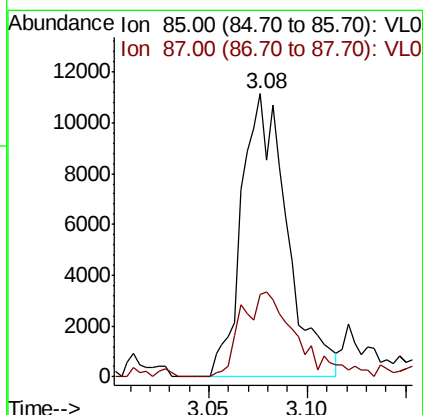
Manual Integrations
APPROVED

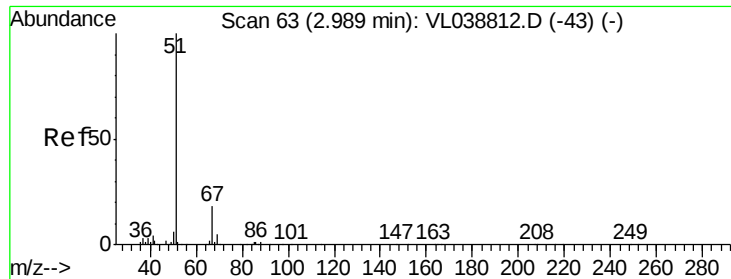
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#2
Dichlorodifluoromethane
Concen: 0.115 ppbv m
RT: 3.08 min Scan# 90
Delta R.T. 0.03 min
Lab File: VL038856.D
Acq: 8 Apr 2022 00:47

Tgt Ion: 85 Resp: 17766
Ion Ratio Lower Upper
85 100
87 29.2 25.9 38.9





#3

Chlorodifluoromethane

Concen: 0.334 ppbv m

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Apr 2022 00:47

Tot Ion:

Ion Ratio

51 100

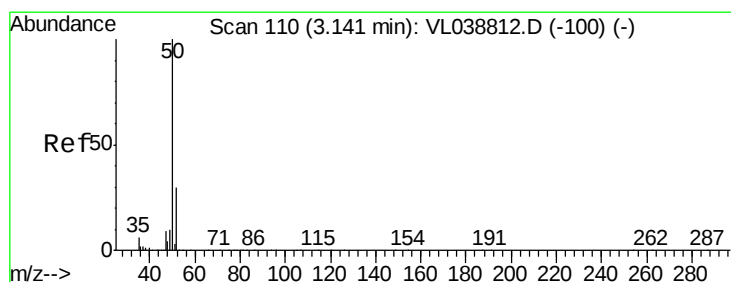
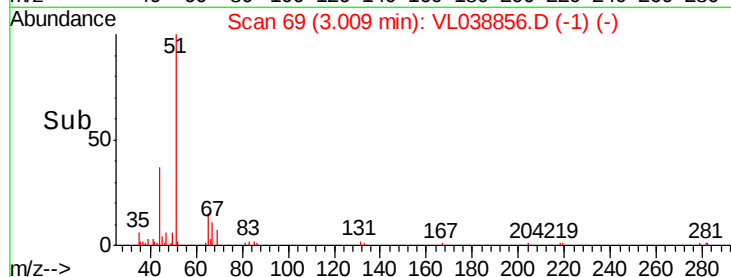
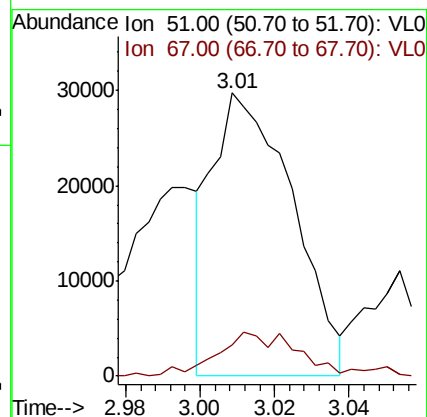
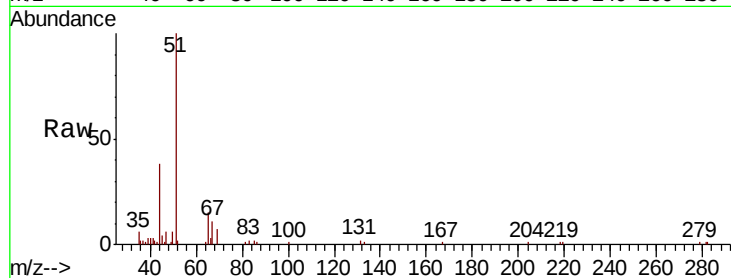
67 16.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#4

Chloromethane

Concen: 0.524 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.03 min

Lab File: VL038856.D

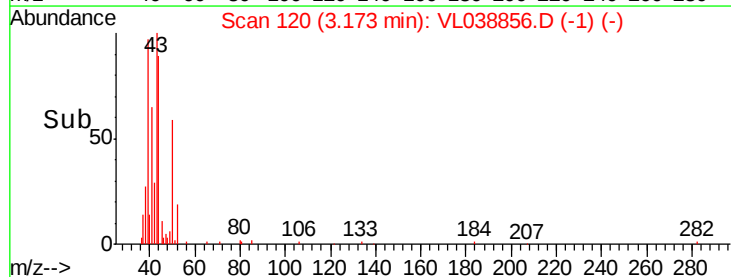
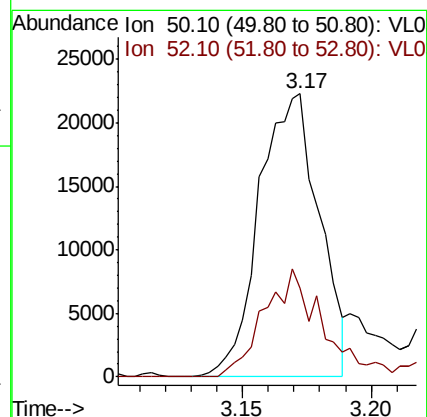
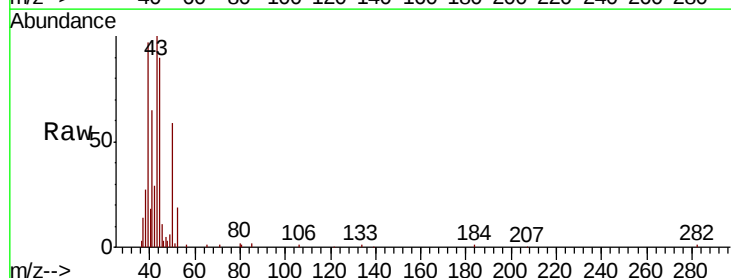
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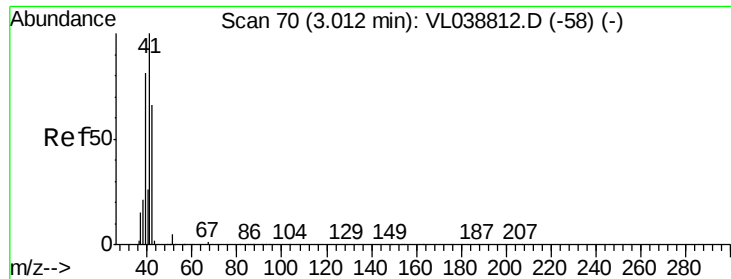
Tgt Ion: 50 Resp: 36179

Ion Ratio Lower Upper

50 100

52 31.6 24.3 36.5





#9

Propene

Concen: 98.520 ppbv m

RT: 3.05 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 8 Apr 2022 00:47

Tot Ion:

Ion Ratio

41 100

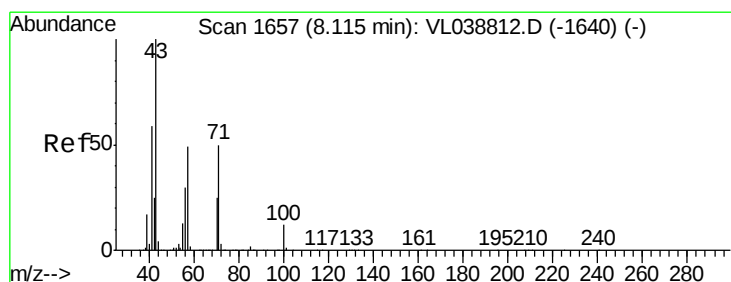
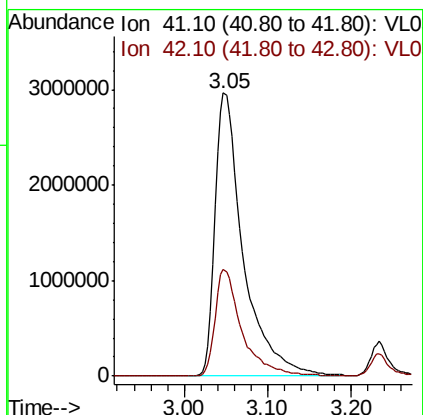
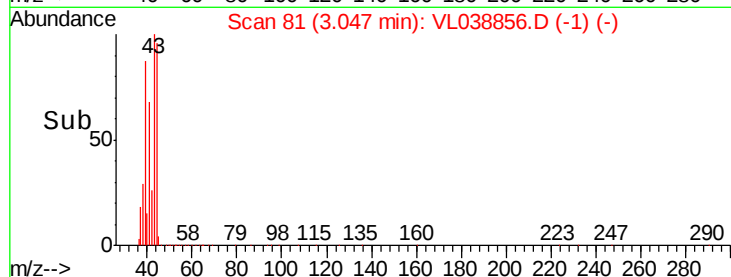
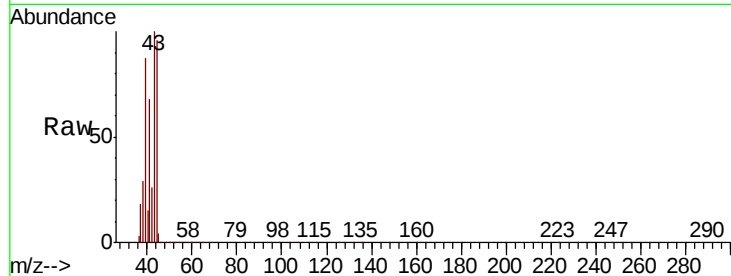
42 5.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#10

Heptane

Concen: 9.830 ppbv

RT: 8.16 min Scan# 1671

Delta R.T. 0.04 min

Lab File: VL038856.D

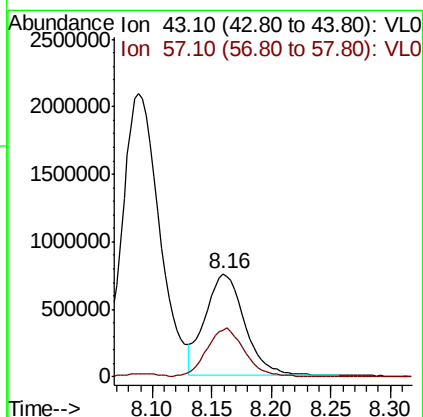
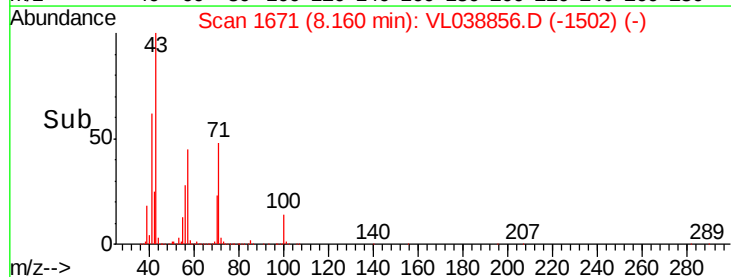
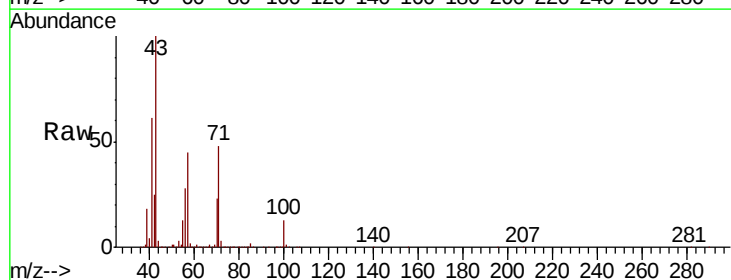
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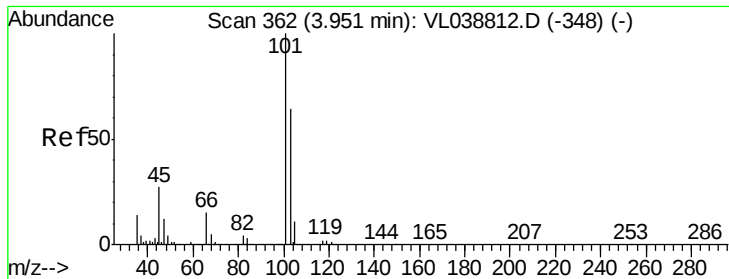
Tgt Ion: 43 Resp: 1748310

Ion Ratio Lower Upper

43 100

57 46.4 39.3 58.9



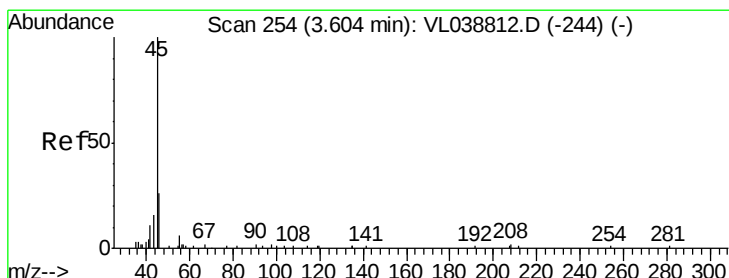
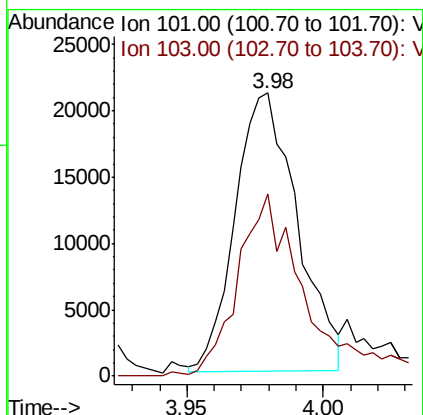
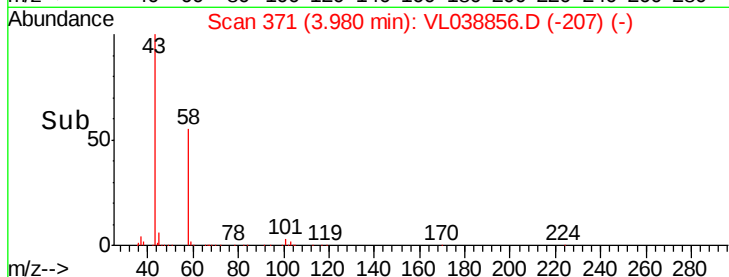
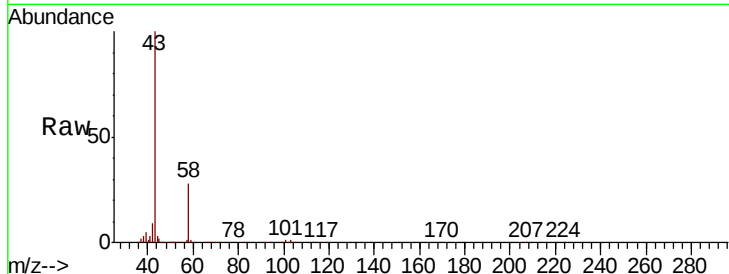


#11
Trichlorofluoromethane
Concen: 0.267 ppbv
RT: 3.98
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 8 Apr 2022 00:47

Tot Ion:1
Ion Rati
101 100
103 65.

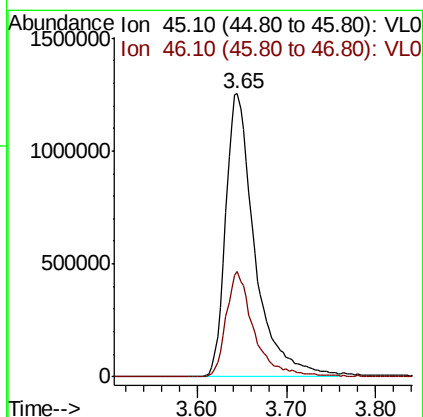
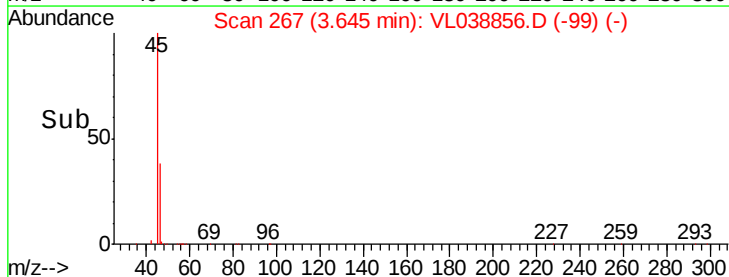
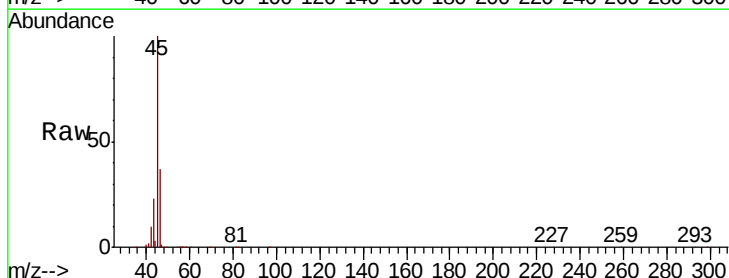
Manual Integrations
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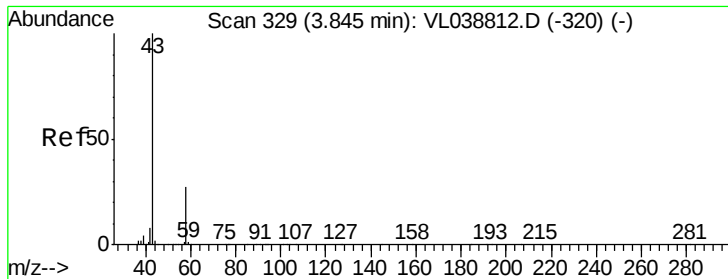
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#13
Ethanol
Concen: 664.692 ppbv
RT: 3.65 min Scan# 267
Delta R.T. 0.04 min
Lab File: VL038856.D
Acq: 8 Apr 2022 00:47

Tgt Ion: 45 Resp: 2852285
Ion Ratio Lower Upper
45 100
46 35.9 0.0 0.0#





#15

Acetone

Concen: 481.383 ppbv m

RT: 3.89 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 8 Apr 2022 00:47

Tot Ion:

Ion Ratio

43 100

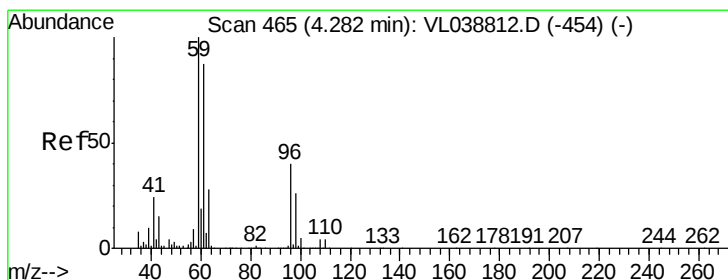
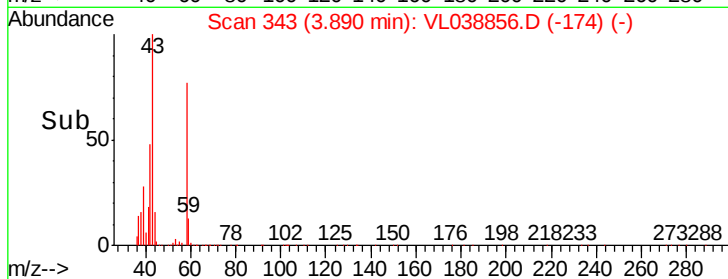
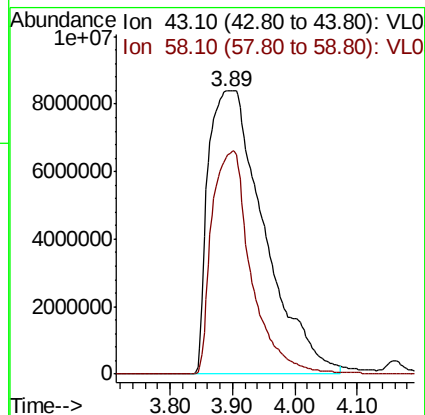
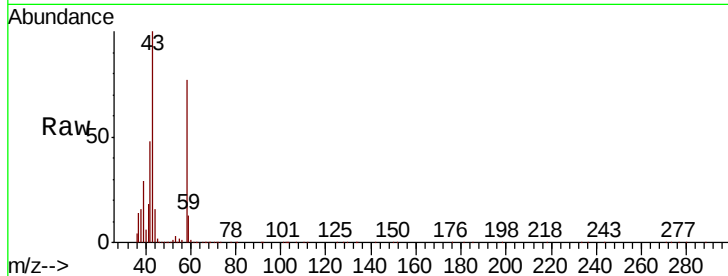
58 55.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#17

tert-Butyl alcohol

Concen: 0.456 ppbv m

RT: 4.35 min Scan# 485

Delta R.T. 0.06 min

Lab File: VL038856.D

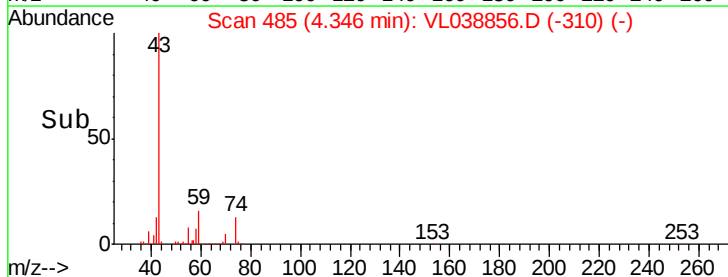
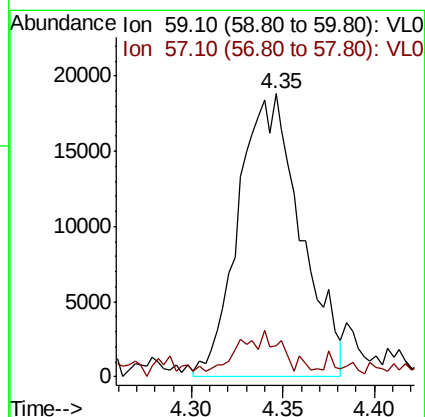
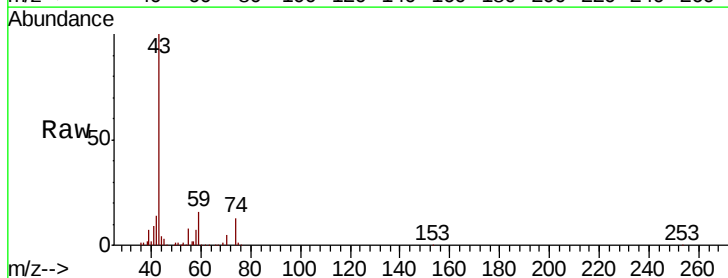
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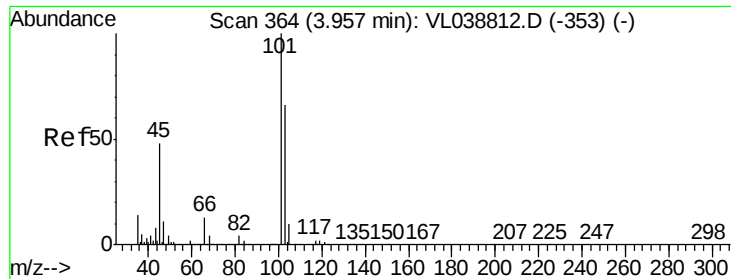
Tgt Ion: 59 Resp: 44481

Ion Ratio Lower Upper

59 100

57 196.5 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 109.696 ppbv

RT: 4.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 8 Apr 2022 00:47

Tot Ion:

Ion Ratio

45 100

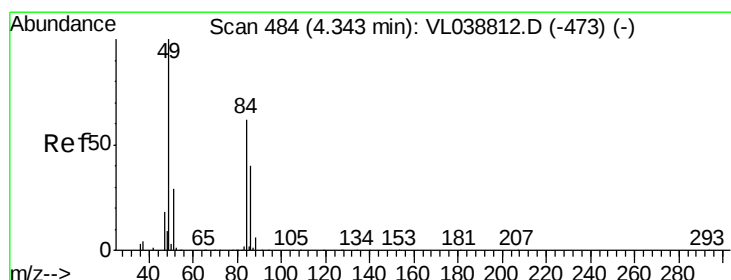
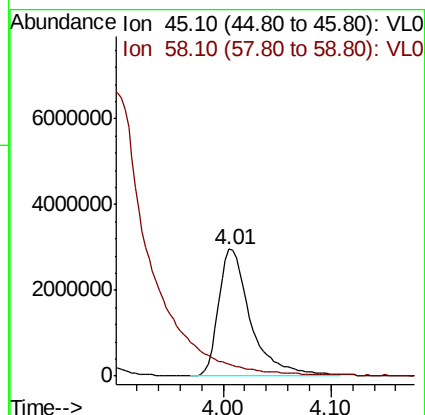
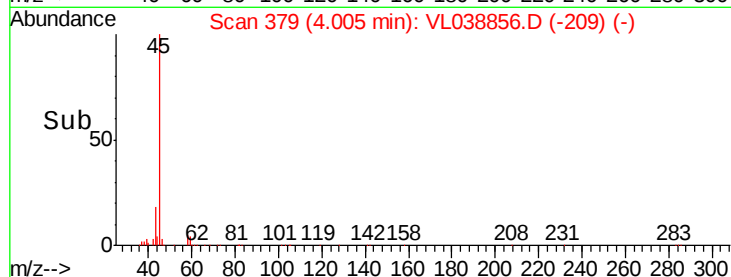
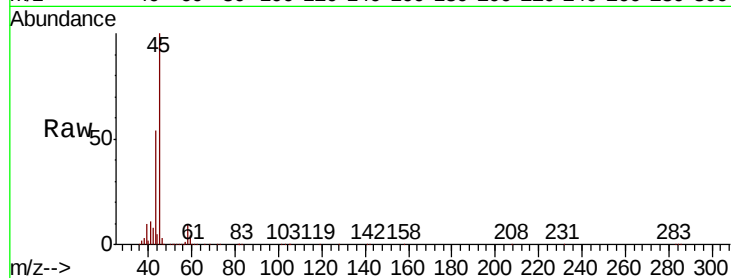
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Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#20

Methylene Chloride

Concen: 3.688 ppbv

RT: 4.39 min Scan# 500

Delta R.T. 0.05 min

Lab File: VL038856.D

Acq: 8 Apr 2022 00:47

Tgt Ion: 84 Resp: 145606

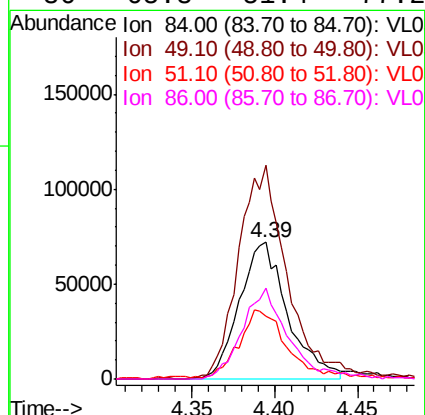
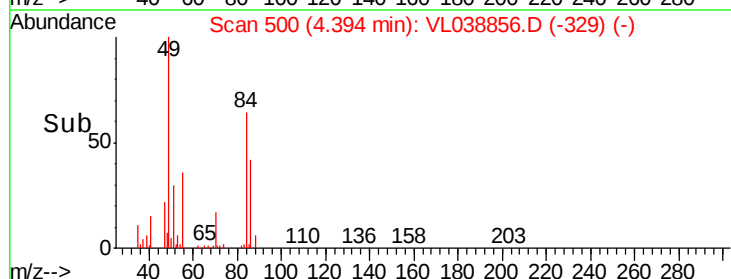
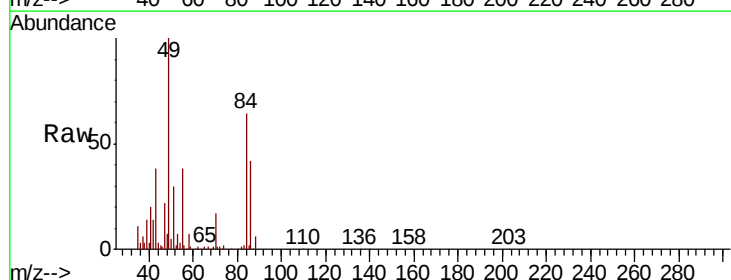
Ion Ratio Lower Upper

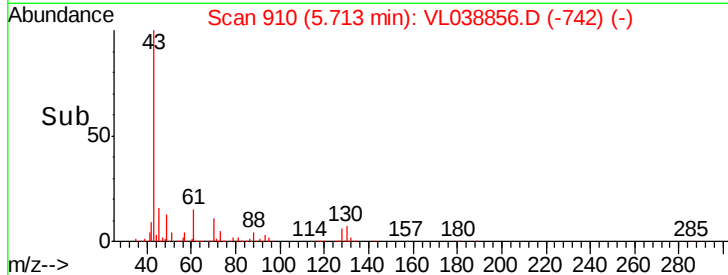
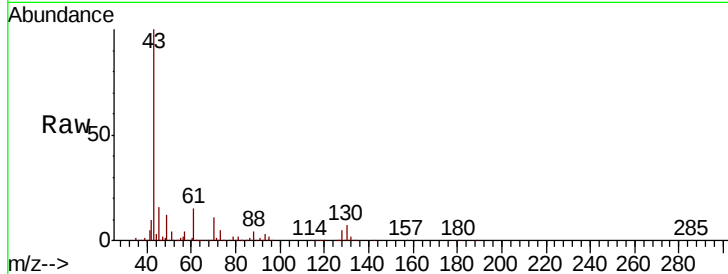
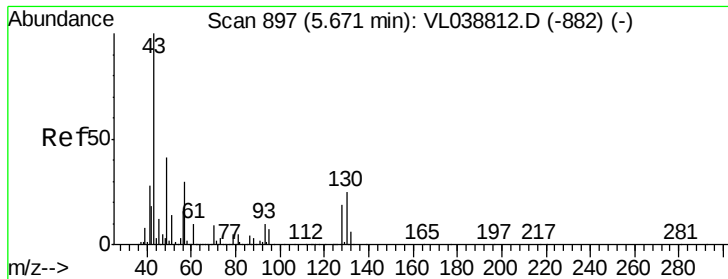
84 100

49 155.4 129.4 194.0

51 45.5 37.4 56.2

86 65.8 51.4 77.2



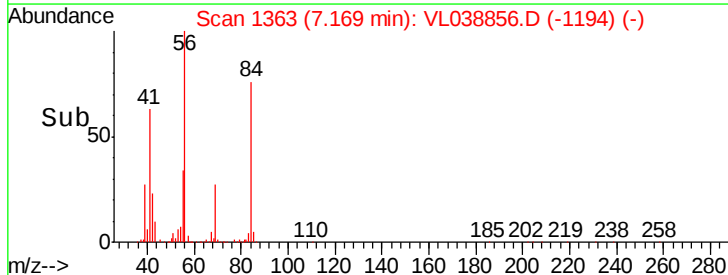
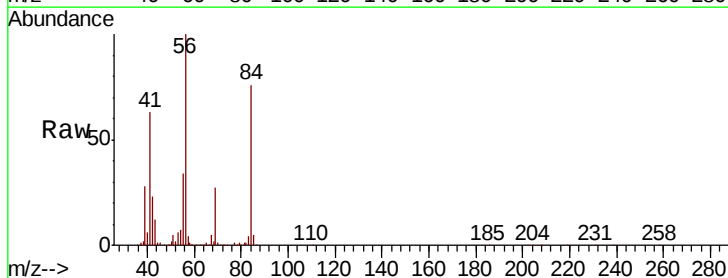
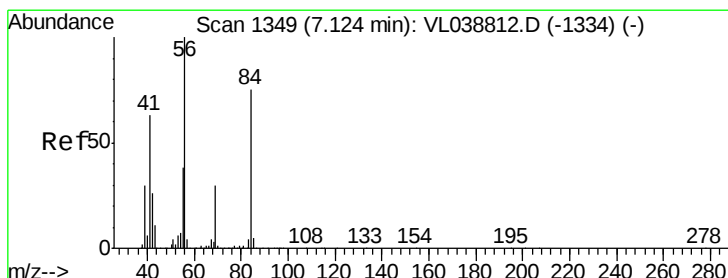
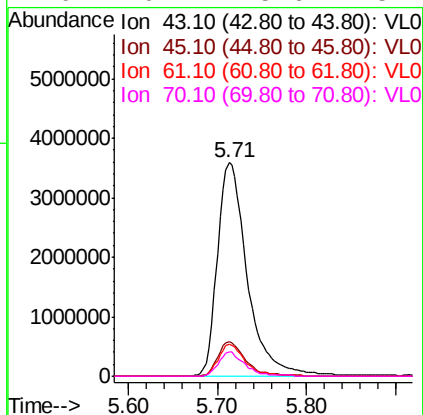


#25
Ethyl Acetate
Concen: 30.018 ppbv
RT: 5.71 min
Instrument: MSVOA_1
Delta R.T.: 0.04 min
Lab File: VL038812.D
Acq: 8 Apr 2022 00:47

Tot Ion: 43.10 (42.80 to 43.80): VL0
Ion Ratio: 43 100, 45 15.1, 61 13.1, 70 10.4
5.6 8.4#

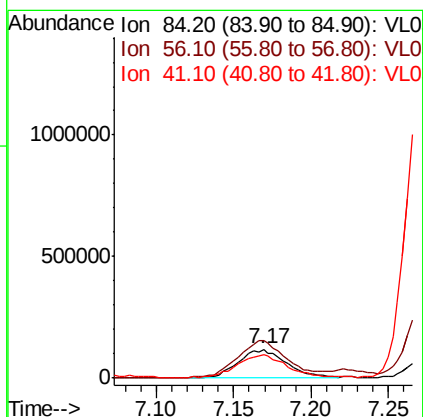
Manual Integrations
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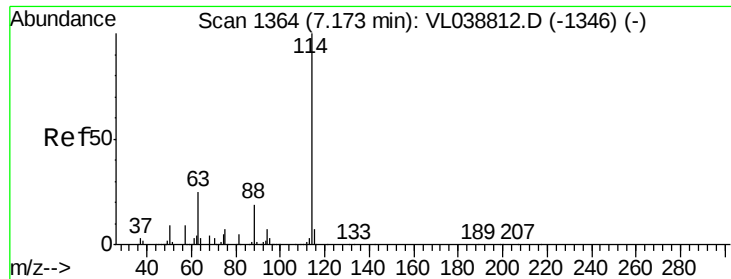
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#30
Cyclohexane
Concen: 2.249 ppbv
RT: 7.17 min Scan# 1363
Delta R.T.: 0.04 min
Lab File: VL038856.D
Acq: 8 Apr 2022 00:47

Tgt Ion: 84 Resp: 249297
Ion Ratio Lower Upper
84 100
56 136.5 114.4 171.6
41 83.4 69.0 103.4



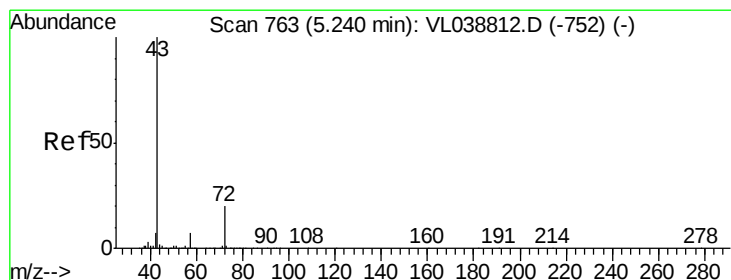
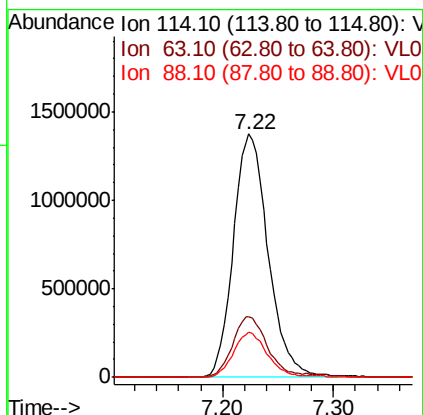
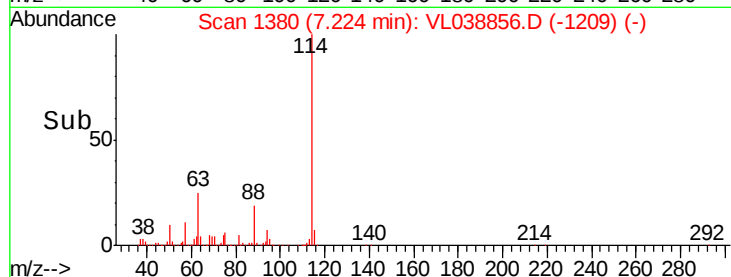
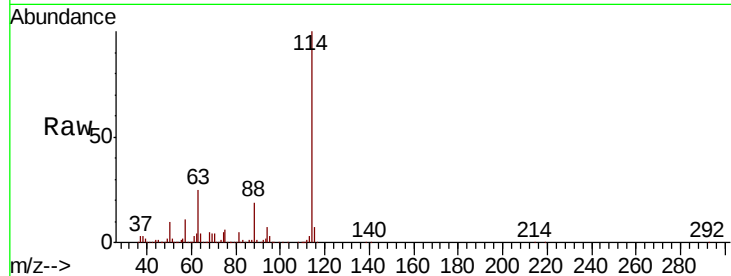


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22
 Instrument : MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 8 Apr 2022 00:47

Tot Ion:1
 Ion Rati
 114 100
 63 26.
 88 18.

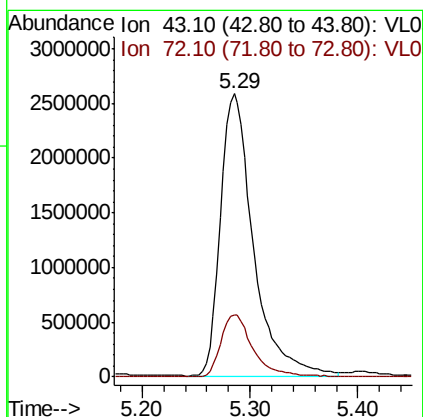
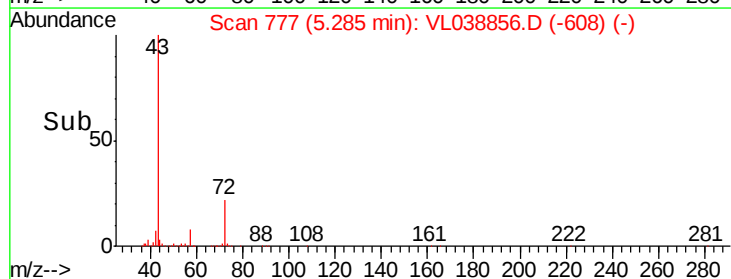
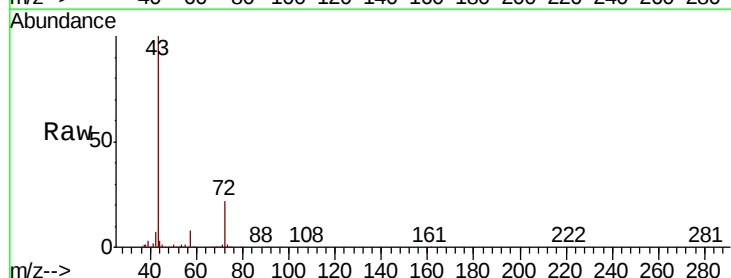
Manual Integrations
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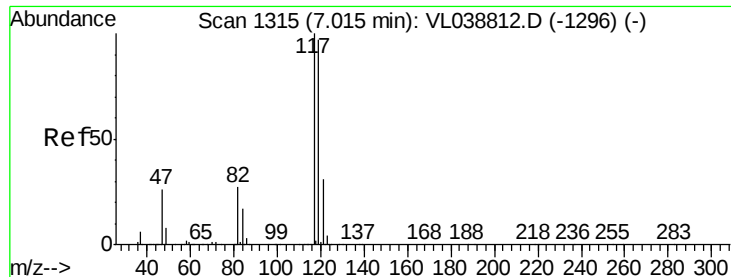
Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#34
 2-Butanone
 Concen: 46.158 ppbv
 RT: 5.29 min Scan# 777
 Delta R.T. 0.04 min
 Lab File: VL038856.D
 Acq: 8 Apr 2022 00:47

Tgt Ion: 43 Resp: 5478995
 Ion Ratio Lower Upper
 43 100
 72 21.8 16.9 25.3





#35

Carbon Tetrachloride

Concen: 0.058 ppbv m

RT: 7.06 Instrument:

Delta R.T. MSVOA_L

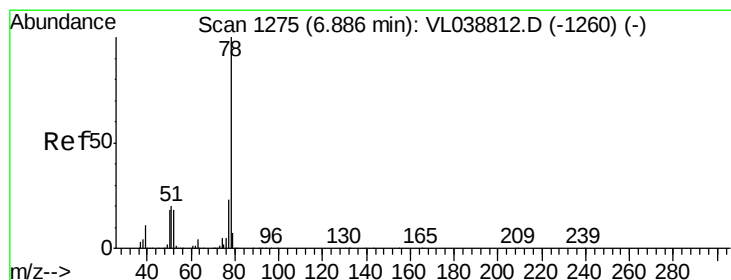
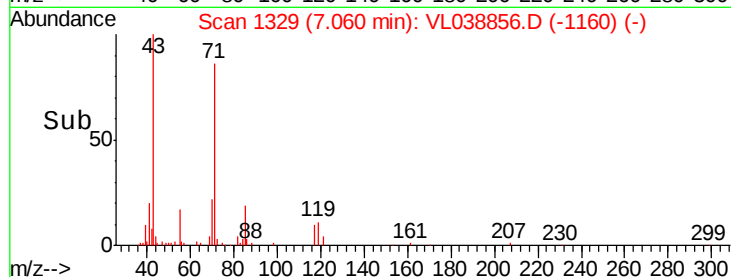
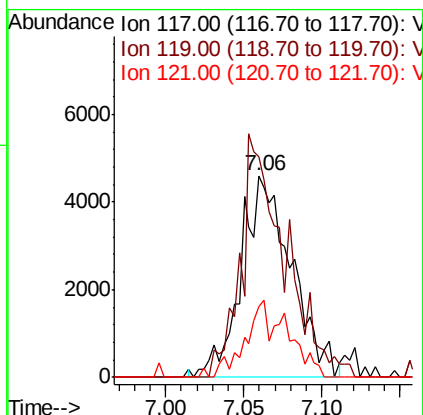
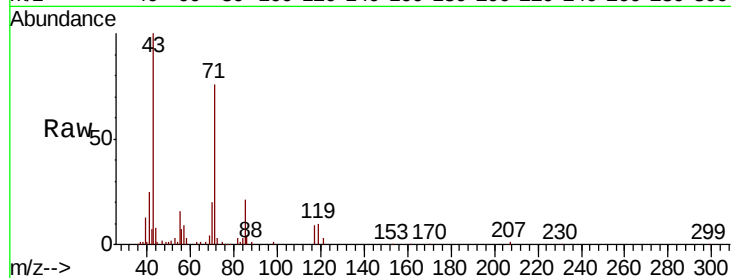
Lab File: ClientSampleId:

Acq: 8 Apr 2022 00:47

Tot Ion:1
Ion Rati
117 100
119 109.
121 35.

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#36

Benzene

Concen: 1.127 ppbv

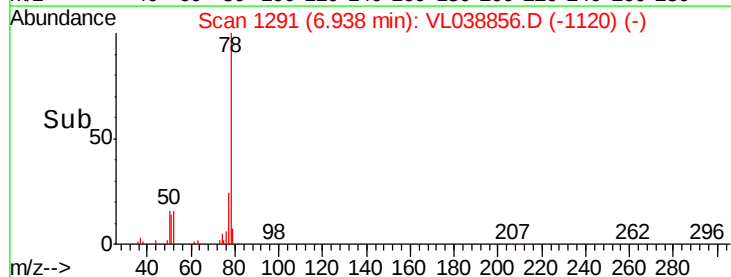
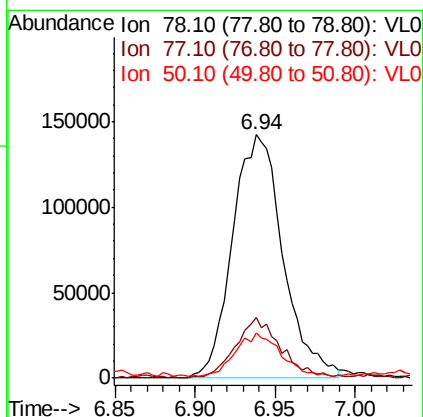
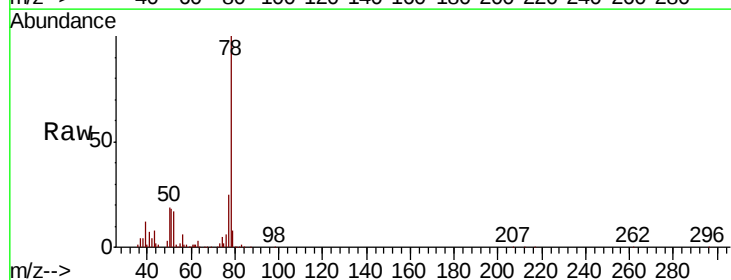
RT: 6.94 min Scan# 1291

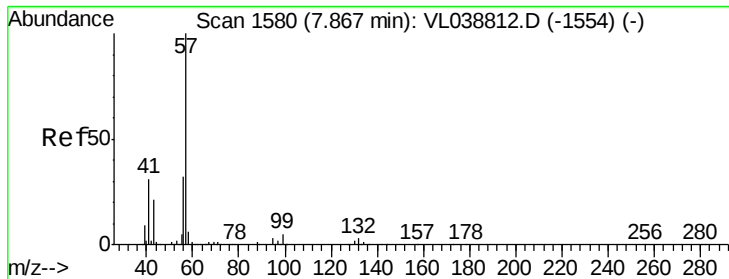
Delta R.T. 0.05 min

Lab File: VL038856.D

Acq: 8 Apr 2022 00:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.6	18.2	27.2
50	18.0	14.0	21.0





#44

2,2,4-Trimethylpentane

Concen: 2.455 ppbv

RT: 7.91 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Apr 2022 00:47

Tot Ion:

Ion Ratio

57 100

41 115.

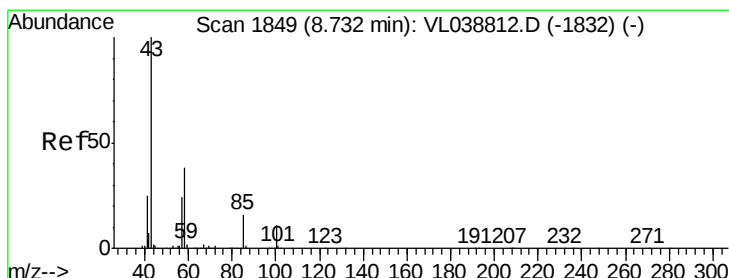
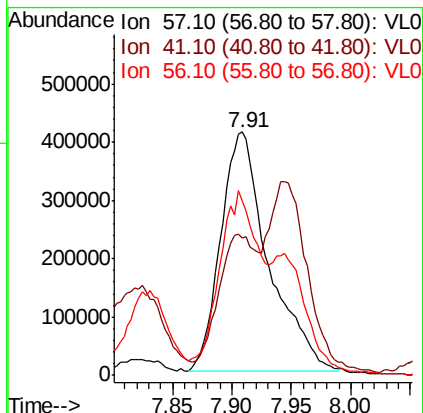
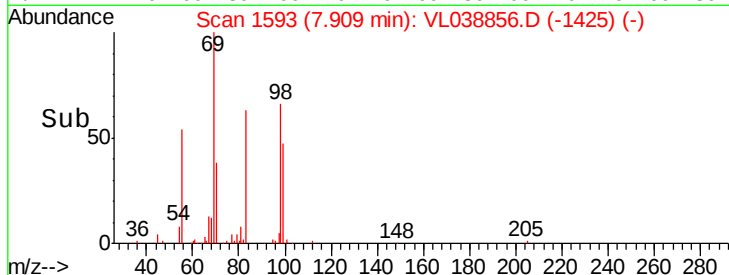
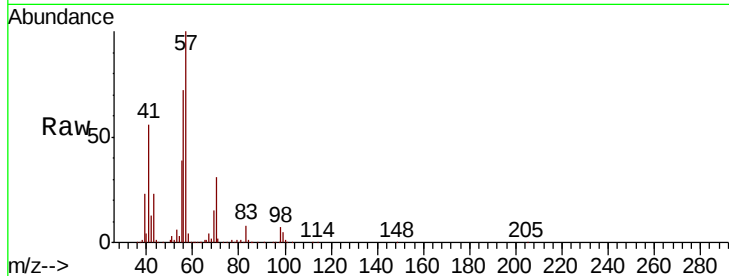
56 101.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#50

4-Methyl-2-Pentanone

Concen: 18.765 ppbv

RT: 8.78 min Scan# 1863

Delta R.T. 0.04 min

Lab File: VL038856.D

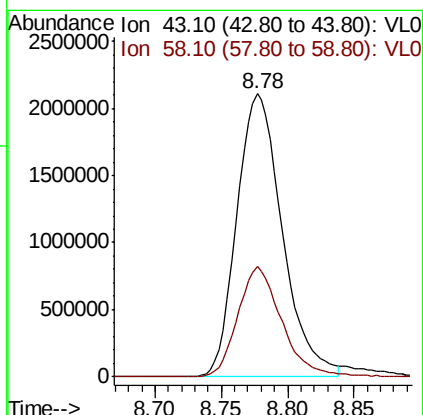
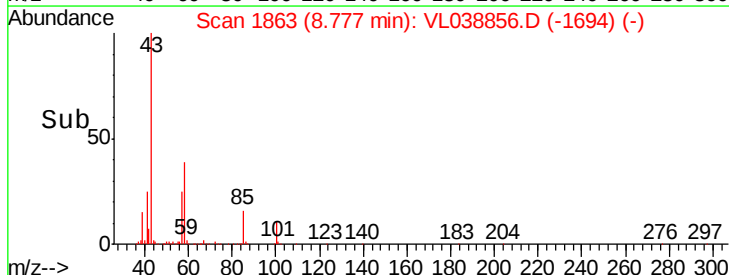
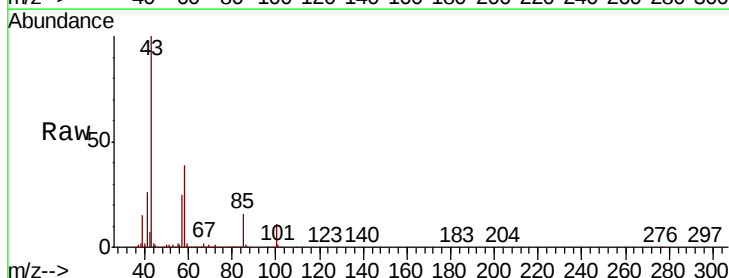
Acq: 8 Apr 2022 00:47

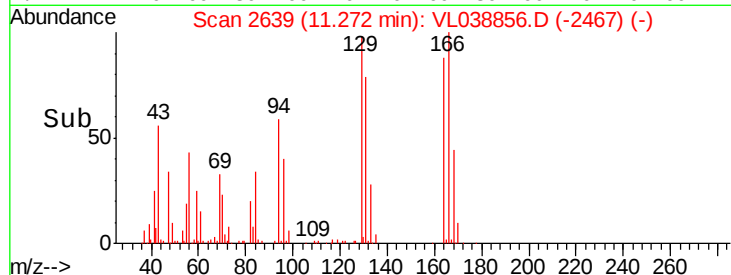
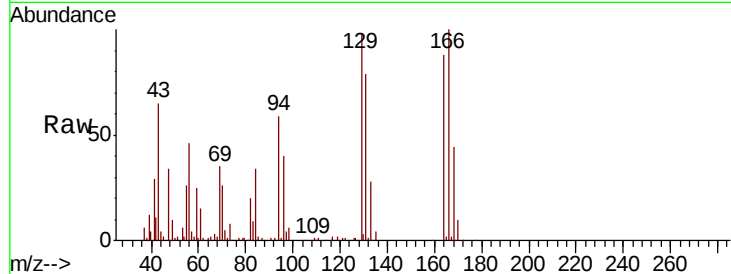
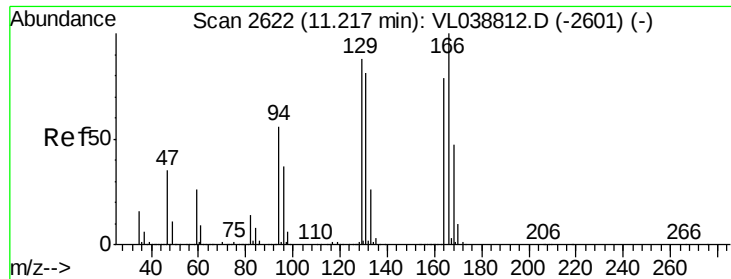
Tgt Ion: 43 Resp: 5010051

Ion Ratio Lower Upper

43 100

58 37.9 29.0 43.6



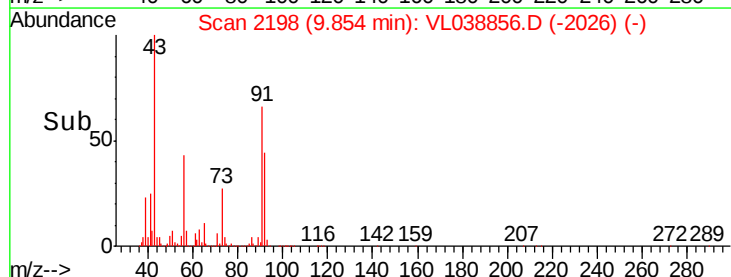
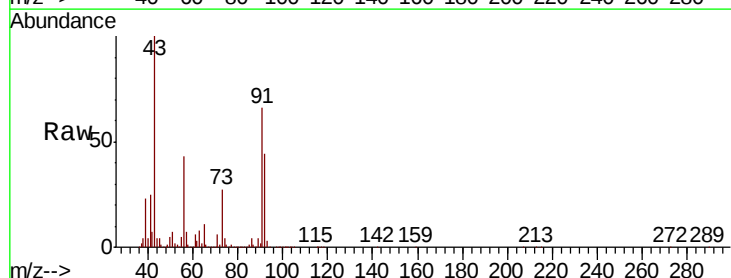
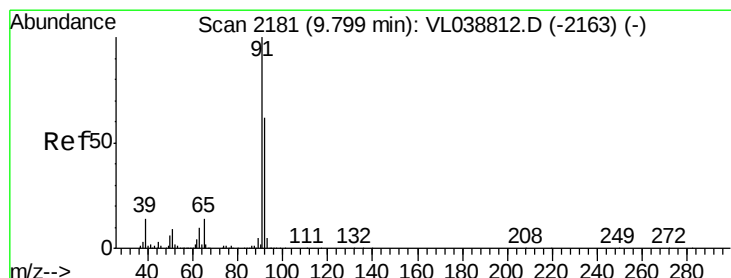
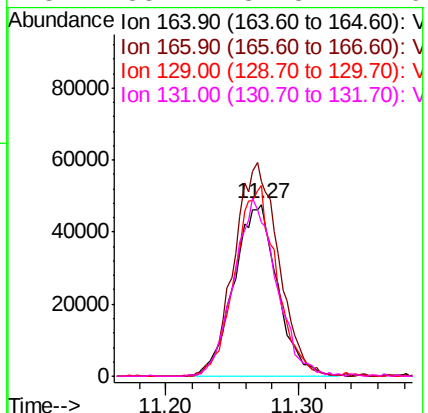


#52
Tetrachloroethene
Concen: 1.136 ppbv
RT: 11.27
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 8 Apr 2022 00:47

Tot Ion: 1
Ion Ratio
164 100
166 112.
129 110.
131 88.7 81.8 122.6

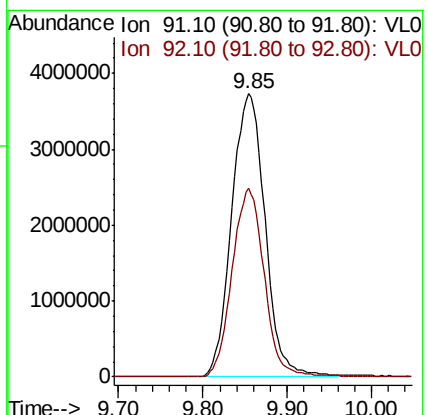
Manual Integrations
APPROVED

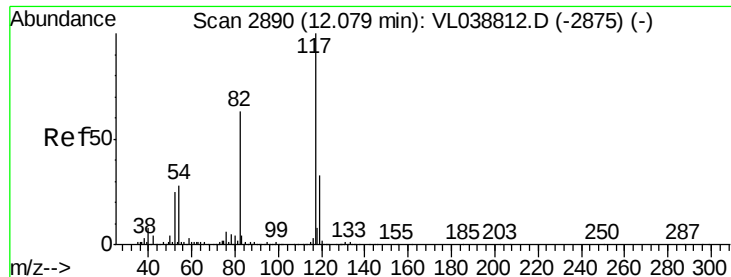
Reviewed By : Semsettin Yesilyurt 04/09/2022
Supervised By : Mahesh Dadoda 04/11/2022



#53
Toluene
Concen: 32.625 ppbv
RT: 9.85 min Scan# 2198
Delta R.T. 0.05 min
Lab File: VL038856.D
Acq: 8 Apr 2022 00:47

Tgt Ion: 91 Resp: 10292142
Ion Ratio Lower Upper
91 100
92 64.1 49.2 73.8



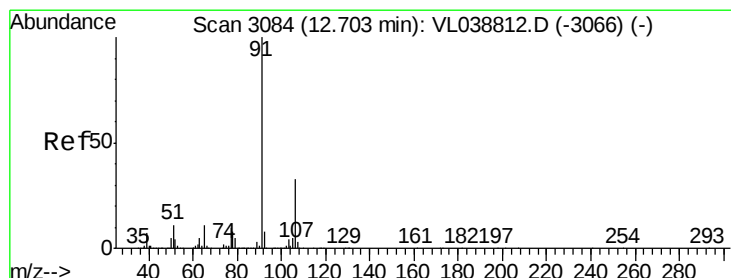
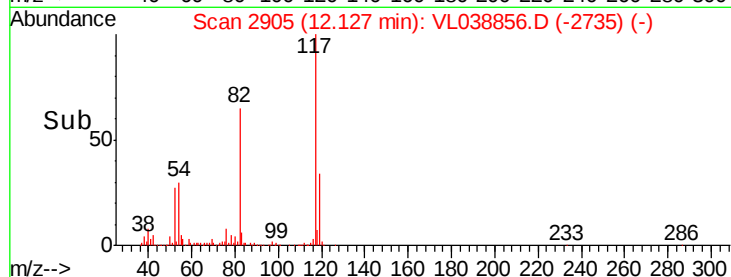
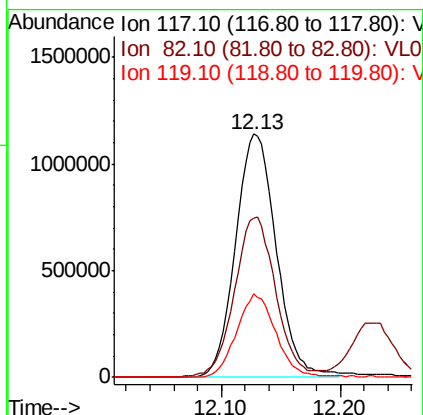
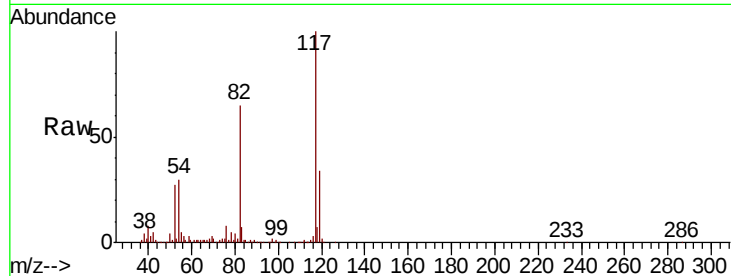


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 8 Apr 2022 00:47

Tot Ion: 1
Ion Ratio
117 100
82 67.
119 33.

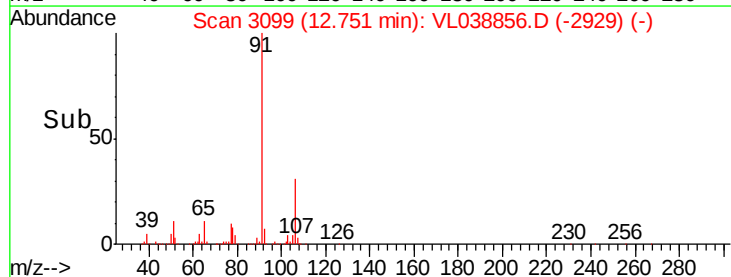
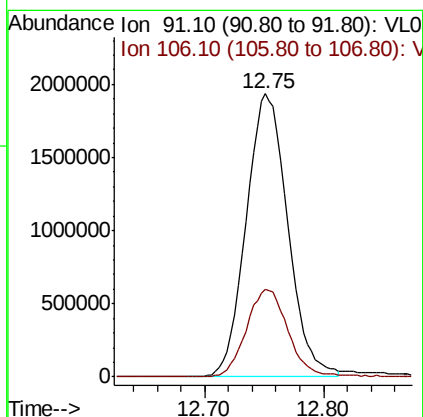
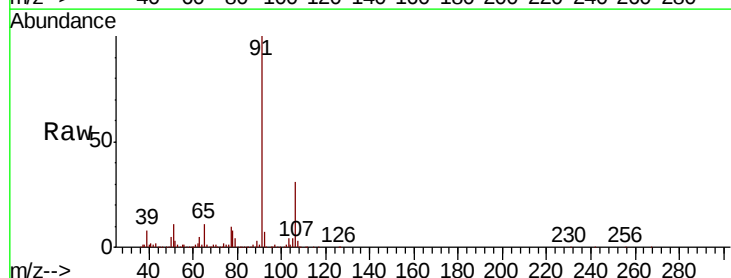
Manual Integrations
APPROVED

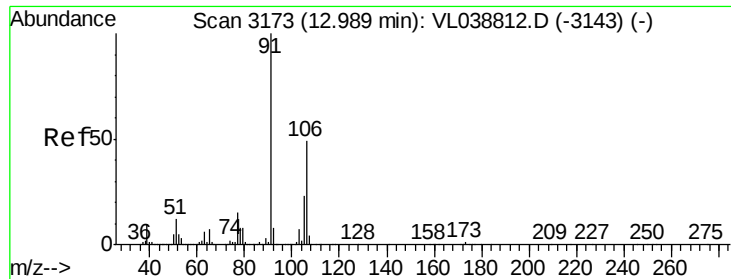
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#58
Ethyl Benzene
Concen: 11.626 ppbv
RT: 12.75 min Scan# 3099
Delta R.T. 0.05 min
Lab File: VL038856.D
Acq: 8 Apr 2022 00:47

Tgt Ion: 91 Resp: 4683947
Ion Ratio Lower Upper
91 100
106 31.2 26.7 40.1





#59

m/p-Xylene

Concen: 37.426 ppbv

RT: 13.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Apr 2022 00:47

Tot Ion:

Ion Ratio

91 100

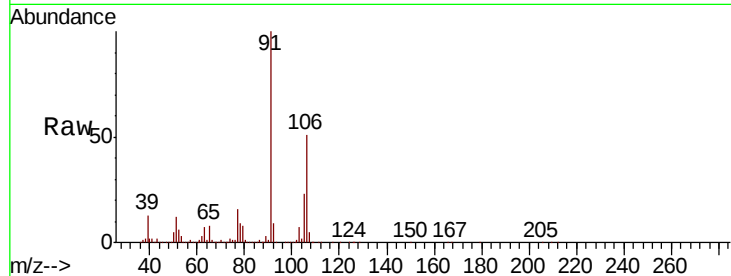
106 50.

Manual Integrations

APPROVED

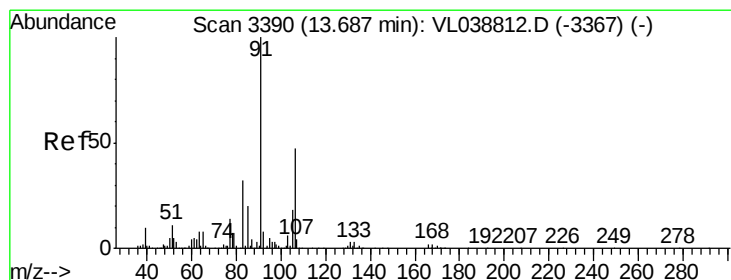
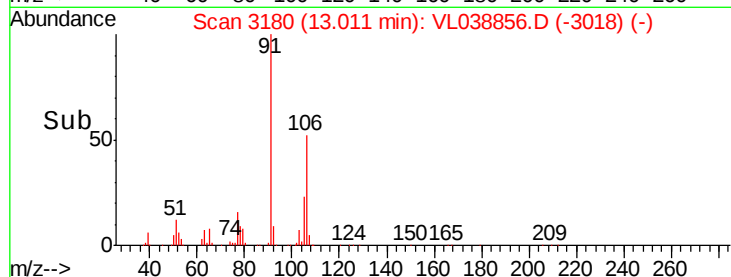
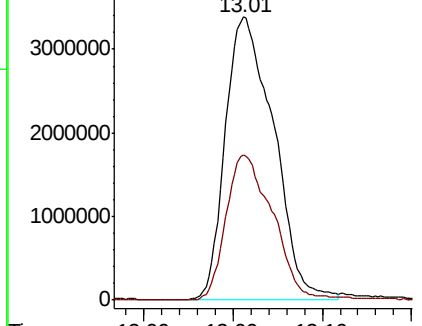
Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 13.656 ppbv

RT: 13.73 min Scan# 3404

Delta R.T. 0.04 min

Lab File: VL038856.D

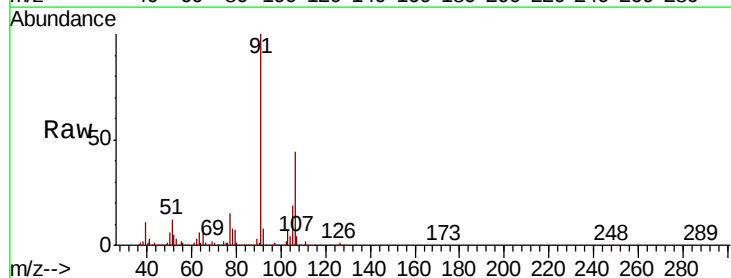
Acq: 8 Apr 2022 00:47

Tgt Ion: 91 Resp: 4325269

Ion Ratio Lower Upper

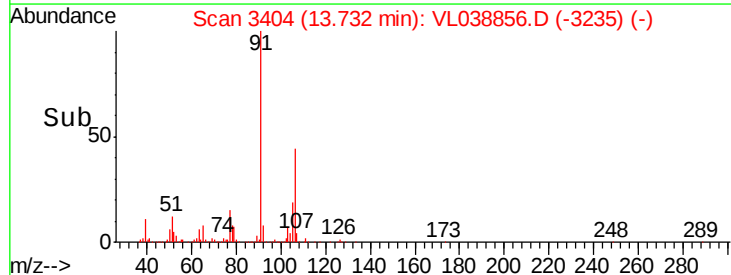
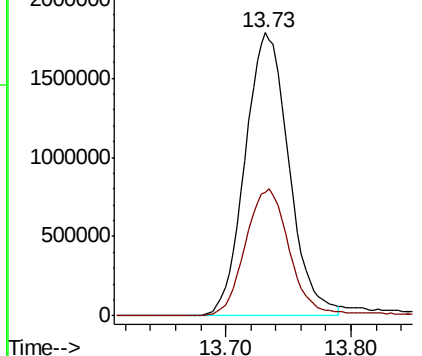
91 100

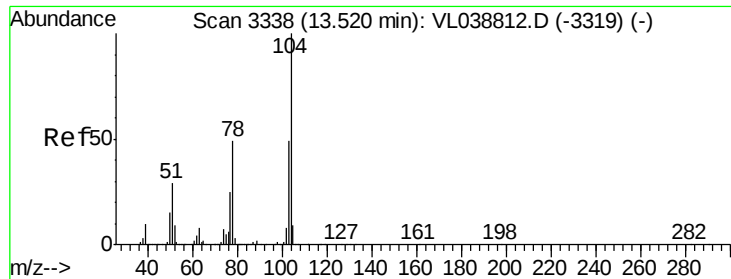
106 46.4 23.8 71.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



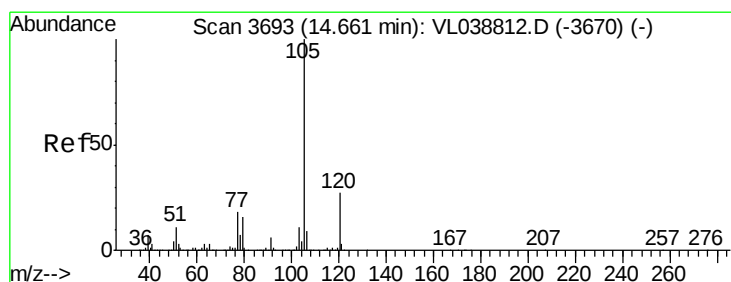
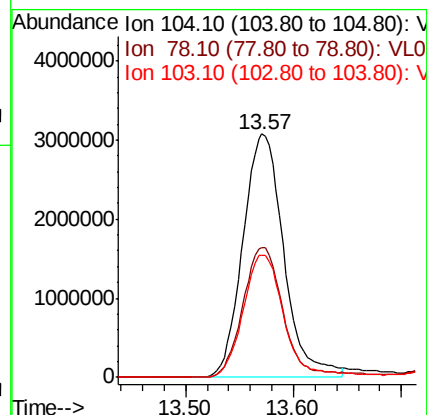
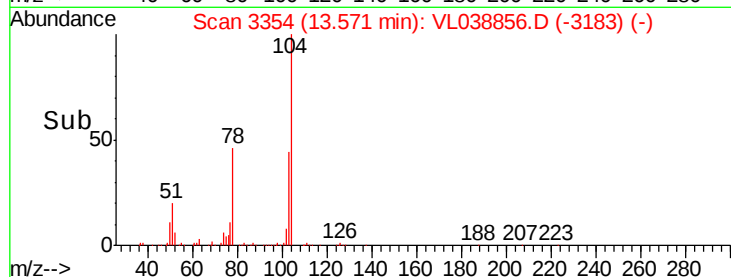
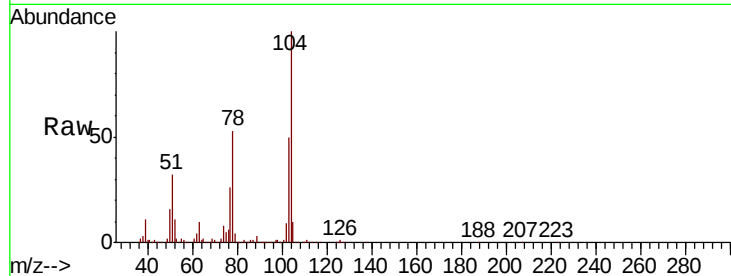


#61
Stvrene
Concen: 41.936 ppbv
RT: 13.57 min
Instrument: MSVOA_1
Delta R.T.: 0.04 min
Lab File: ClientSampleId : 1160-1-SG-4
Acq: 8 Apr 2022 00:47

Tot Ion:1
Ion Rati
104 100
78 54.
103 51.

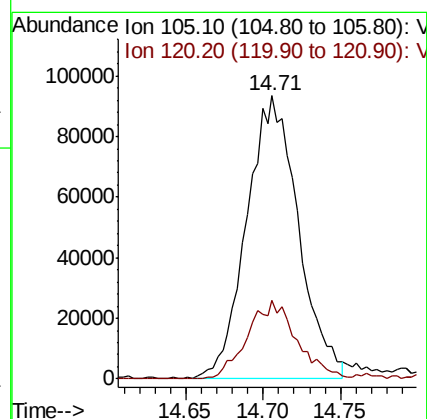
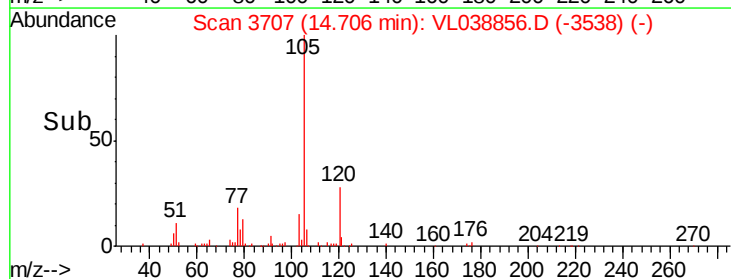
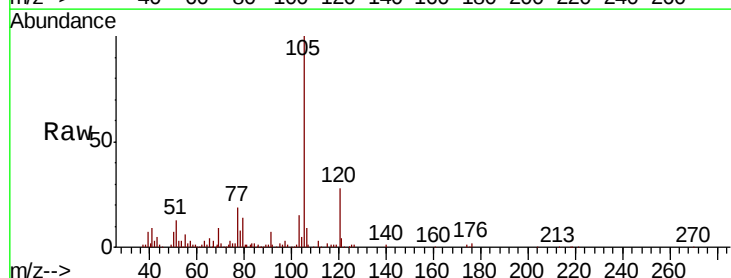
Manual Integrations
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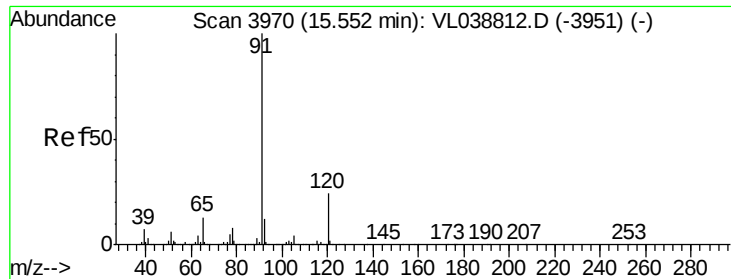
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#62
Isopropylbenzene
Concen: 0.454 ppbv
RT: 14.71 min Scan# 3707
Delta R.T. 0.04 min
Lab File: VL038856.D
Acq: 8 Apr 2022 00:47

Tgt Ion:105 Resp: 215846
Ion Ratio Lower Upper
105 100
120 26.6 21.8 32.8





#64

n-propylbenzene

Concen: 1.821 ppbv m

RT: 15.60

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 8 Apr 2022 00:47

Tot Ion:1

Ion Rati

120 100

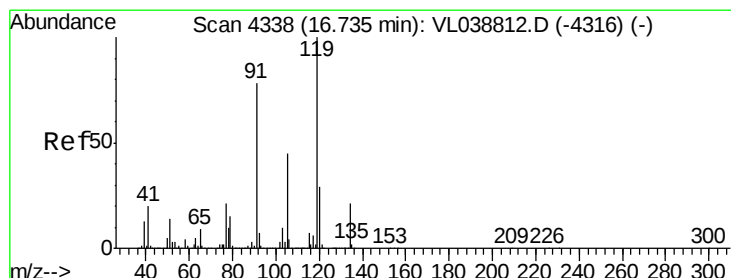
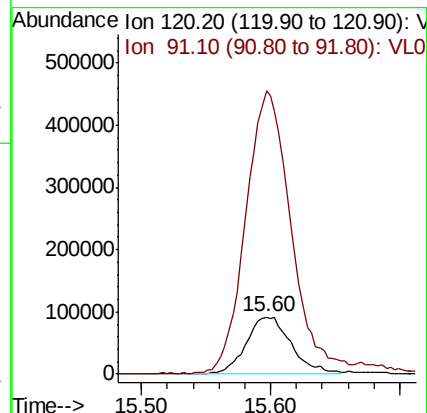
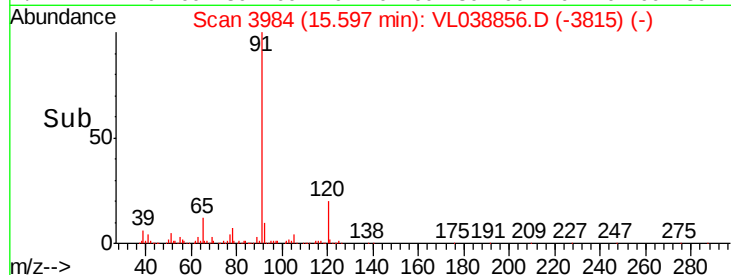
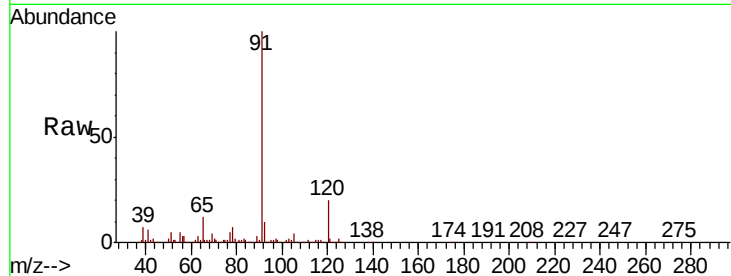
91 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#65

tert-Butylbenzene

Concen: 0.861 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. 0.06 min

Lab File: VL038856.D

Acq: 8 Apr 2022 00:47

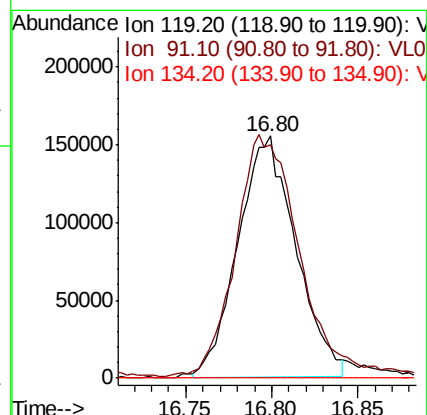
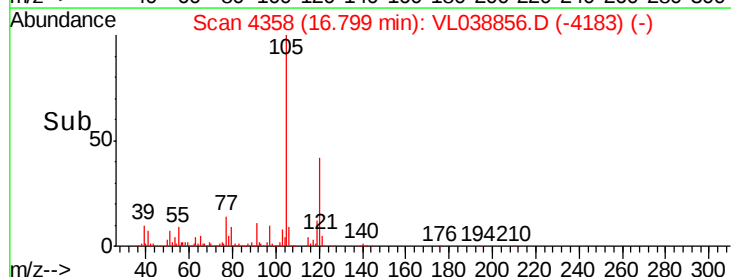
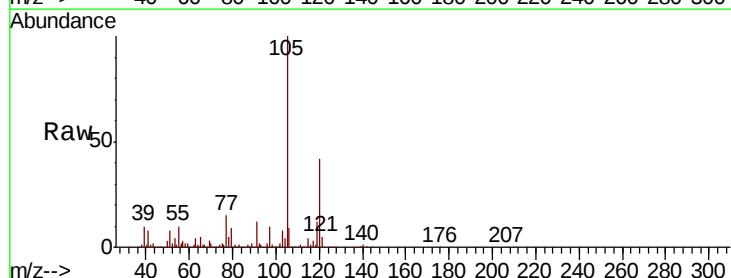
Tgt Ion:119 Resp: 363153

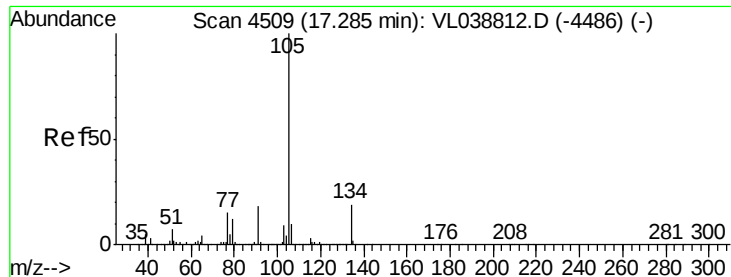
Ion Ratio Lower Upper

119 100

91 110.8 62.8 94.2#

134 0.0 16.2 24.4#





#67

sec-Butylbenzene

Concen: 0.151 ppbv m

RT: 17.33

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Apr 2022 00:47

Tot Ion:1

Ion Rati

105 100

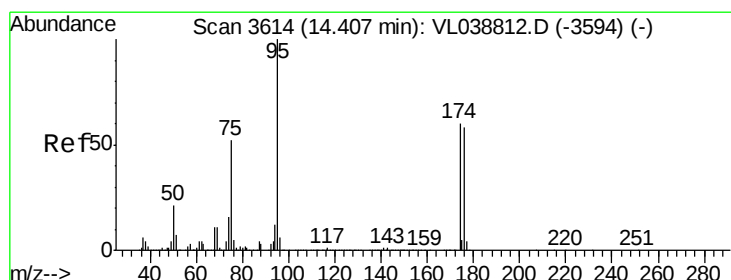
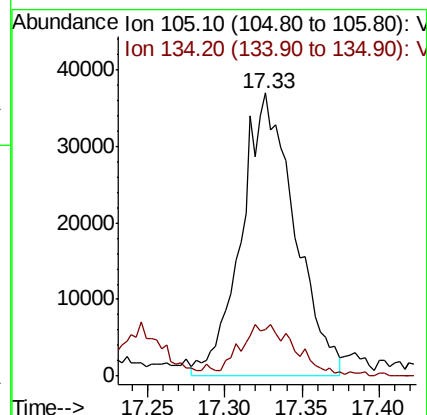
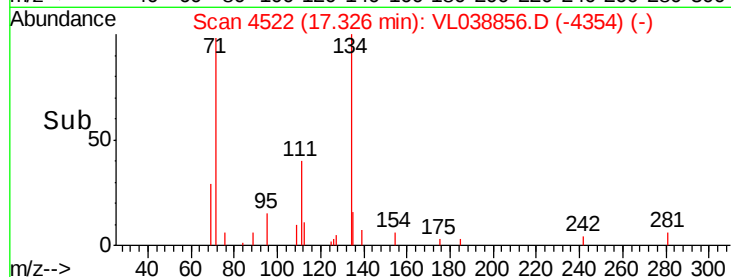
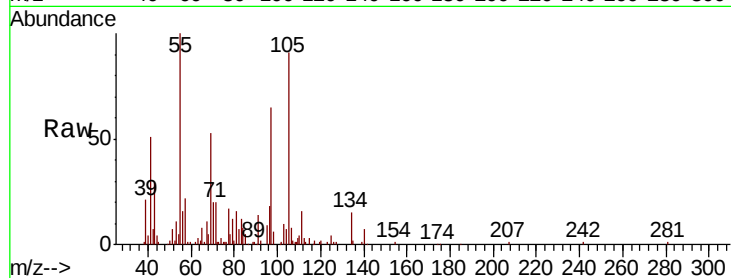
134 19.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#68

1-Bromo-4-Fluorobenzene

Concen: 10.437 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. 0.05 min

Lab File: VL038856.D

Acq: 8 Apr 2022 00:47

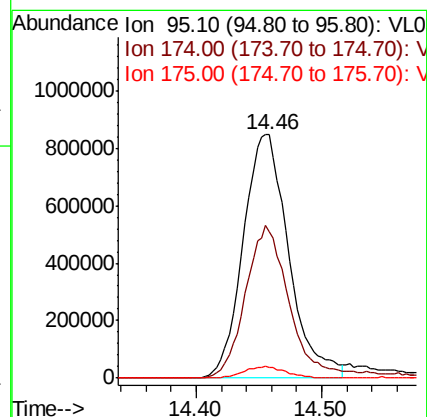
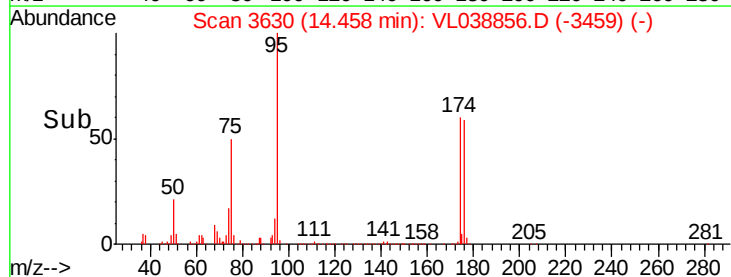
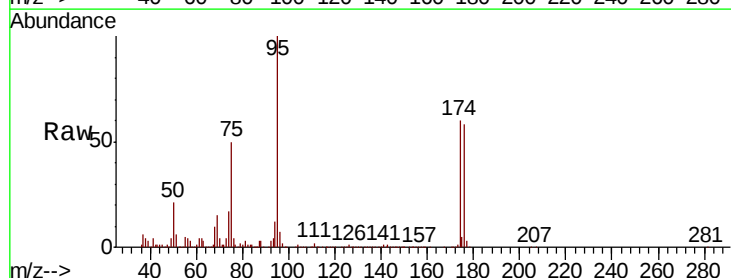
Tgt Ion: 95 Resp: 2134541

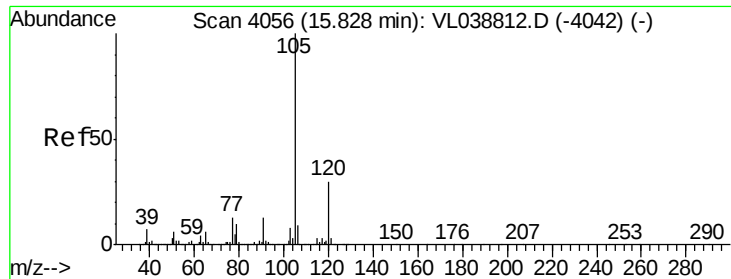
Ion Ratio Lower Upper

95 100

174 63.2 52.0 78.0

175 4.7 4.0 6.0





#72

4-Ethyltoluene

Concen: 3.893 ppbv

RT: 15.88

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 8 Apr 2022 00:47

Tot Ion:1

Ion Ratio

105 100

120 30.

91 12.

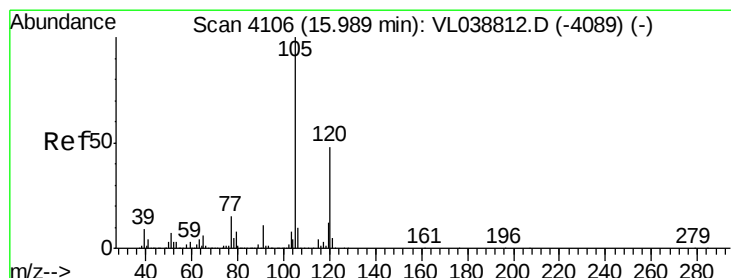
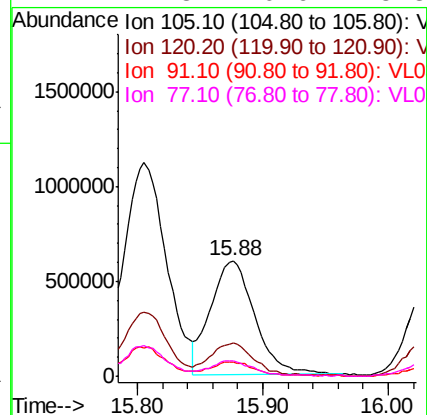
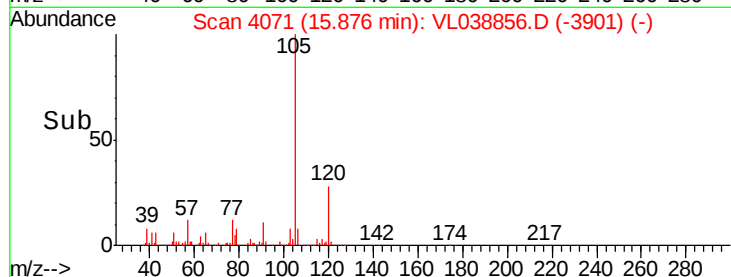
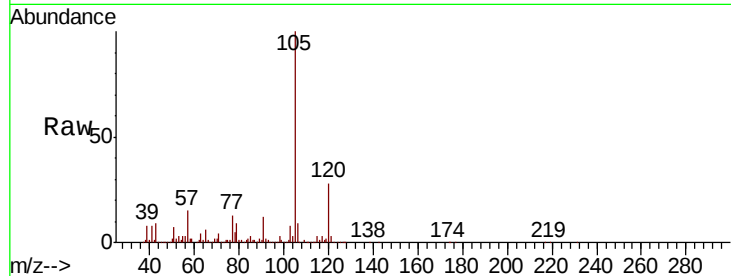
77 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#73

1,3,5-Trimethylbenzene

Concen: 3.370 ppbv

RT: 16.03 min Scan# 4120

Delta R.T. 0.04 min

Lab File: VL038856.D

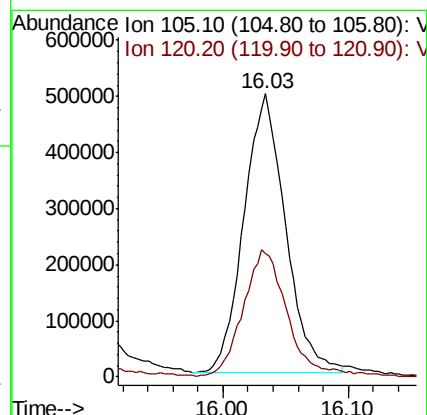
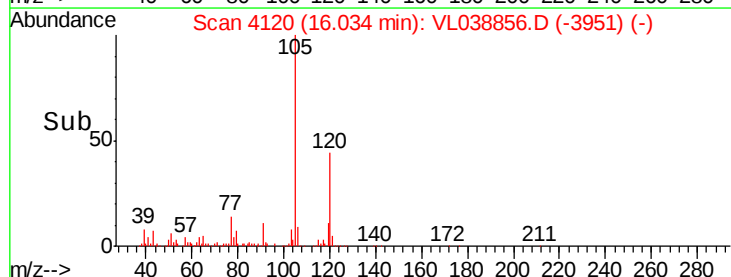
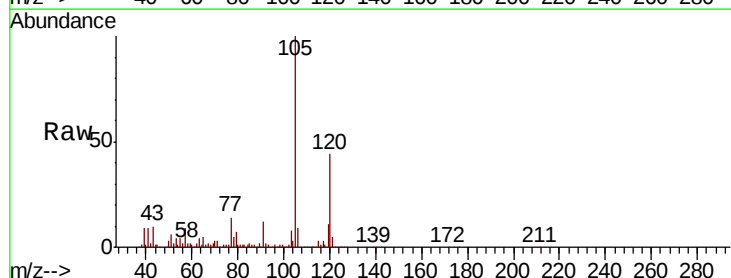
Acq: 8 Apr 2022 00:47

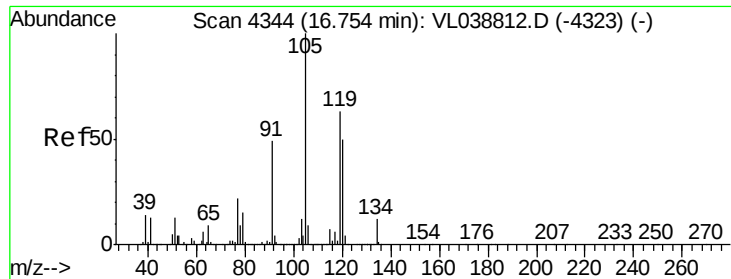
Tgt Ion:105 Resp: 1145049

Ion Ratio Lower Upper

105 100

120 44.0 38.7 58.1



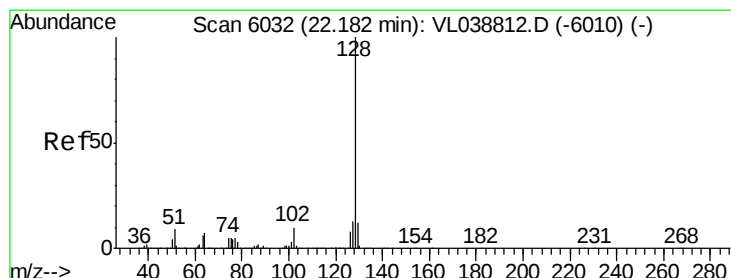
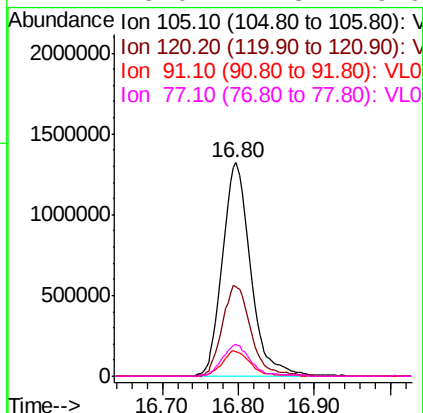
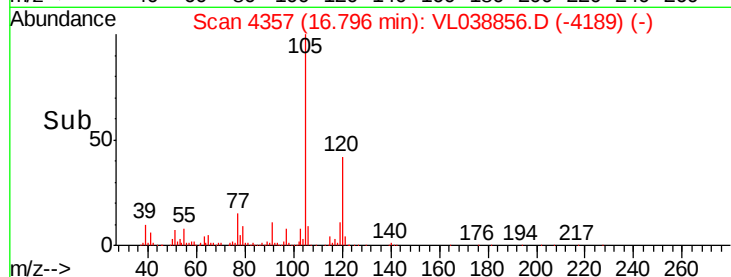
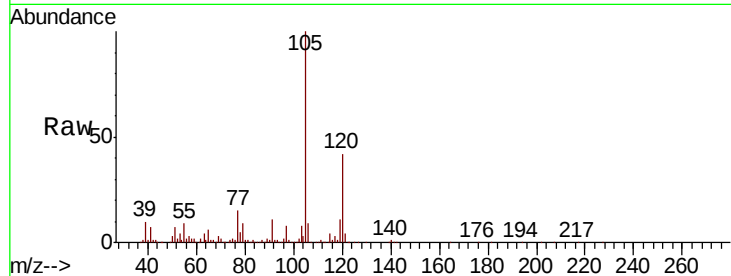


#74
 1,2,4-Trimethylbenzene
 Concen: 9.499 ppbv
 RT: 16.80
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 8 Apr 2022 00:47

Tot Ion:1
 Ion Ratio
 105 100
 120 42.
 91 11.
 77 15.0 17.3 25.9#

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#79
 Naphthalene
 Concen: 0.178 ppbv m
 RT: 22.24 min Scan# 6050
 Delta R.T. 0.06 min
 Lab File: VL038856.D
 Acq: 8 Apr 2022 00:47

Tgt Ion:128 Resp: 47721
 Ion Ratio Lower Upper
 128 100
 127 17.2 10.6 15.8#
 129 9.0 9.4 14.0#

