

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041422\
 Data File : VL038940.D
 Acq On : 15 Apr 2022 9:21
 Operator : SY/AP
 Sample : N2408-01
 Misc : 400mL/MSVOA L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 AA-2

Manual Integrations
 APPROVED

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

Quant Time: Apr 15 10:01:04 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	5.65	49	1153827	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2950608	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	2618138	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2016268	10.15	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	102725	0.628	ppbv	91
3) Chlorodifluoromethane	2.99	51	42003m	0.298	ppbv	
4) Chloromethane	3.13	50	41943	0.575	ppbv	98
9) Propene	3.02	41	82306m	1.105	ppbv	
10) Heptane	8.10	43	41459	0.221	ppbv	88
11) Trichlorofluoromethane	3.95	101	32727m	0.249	ppbv	
13) Ethanol	3.59	45	183281	40.481	ppbv #	100
15) Acetone	3.84	43	493411	4.295	ppbv #	74
19) Isopropyl Alcohol	3.96	45	54051	0.921	ppbv #	100
20) Methylene Chloride	4.34	84	71217	1.709	ppbv #	80
25) Ethyl Acetate	5.67	43	170616	0.585	ppbv #	94
26) Hexane	5.68	57	134860	1.016	ppbv #	65
30) Cyclohexane	7.11	84	17432m	0.149	ppbv	
34) 2-Butanone	5.23	43	142764	1.224	ppbv #	81
35) Carbon Tetrachloride	7.01	117	10263m	0.058	ppbv	
36) Benzene	6.88	78	76071	0.283	ppbv #	90
41) Tetrahydrofuran	6.05	42	42388	0.383	ppbv #	79
44) 2,2,4-Trimethylpentane	7.85	57	78529m	0.173	ppbv	
52) Tetrachloroethene	11.21	164	5549m	0.059	ppbv	
53) Toluene	9.79	91	521822	1.684	ppbv	99
58) Ethyl Benzene	12.69	91	102497	0.262	ppbv	88
59) m/p-Xylene	12.95	91	279025m	0.849	ppbv	
60) o-Xylene	13.67	91	94107m	0.306	ppbv	
61) Styrene	13.51	104	26770m	0.143	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	56945m	0.163	ppbv	

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

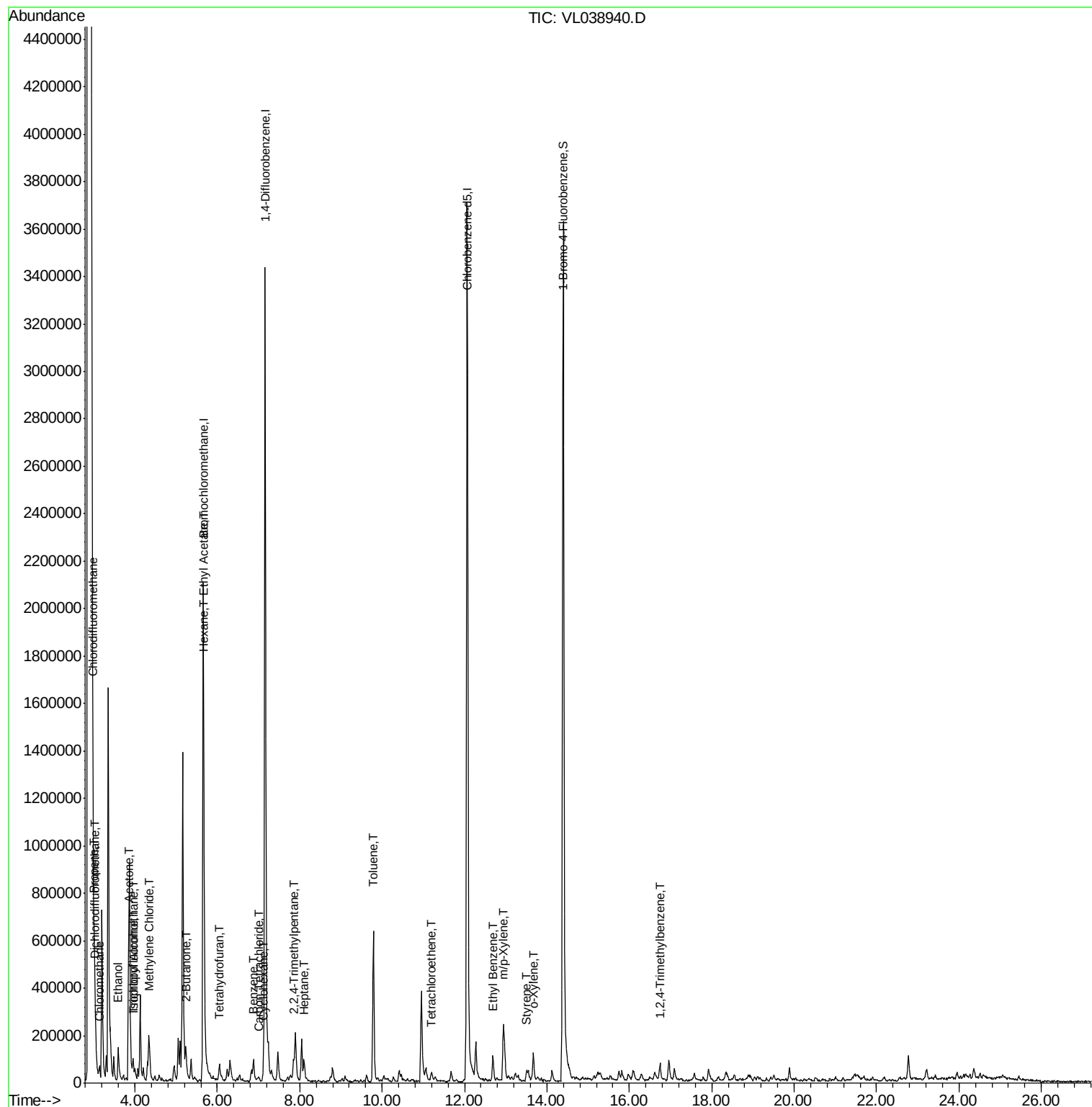
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL041422\
Data File : VL038940.D
Acq On : 15 Apr 2022 9:21
Operator : SY/AP
Sample : N2408-01
Misc : 400mL/MSVOA L
ALS Vial : 7 Sample Multiplier: 1

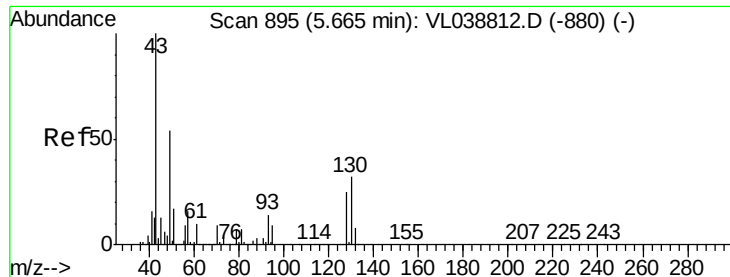
Instrument :
MSVOA_L
ClientSampleId :
AA-2

Quant Time: Apr 15 10:01:04 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 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T.:

Lab File: ClientSampleId:

Acq: 15 Apr 2022 9:21

Tot Ion:

Ion Ratio

49 100

128 49.

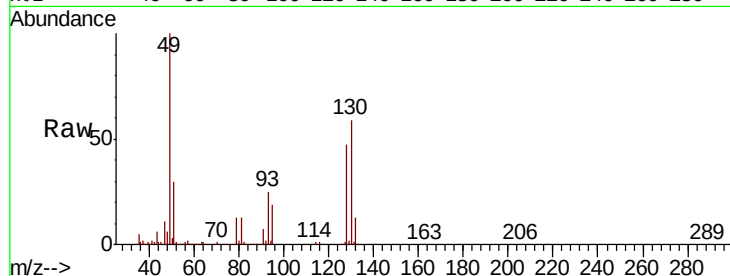
130 61.

Manual Integrations

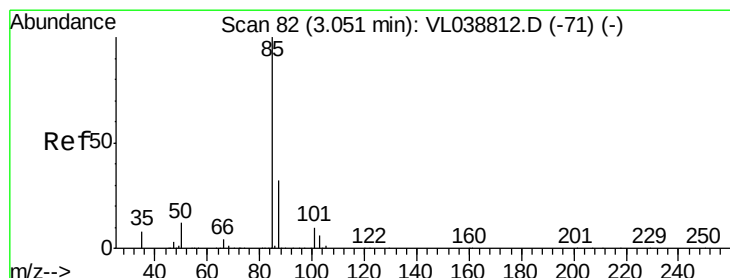
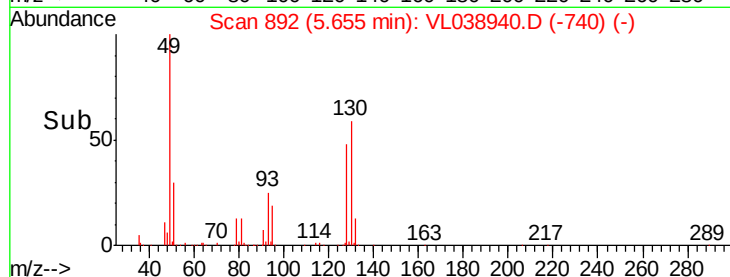
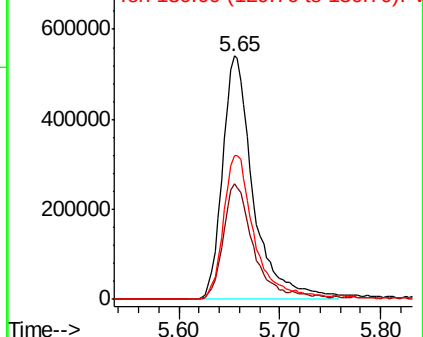
APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.628 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL038940.D

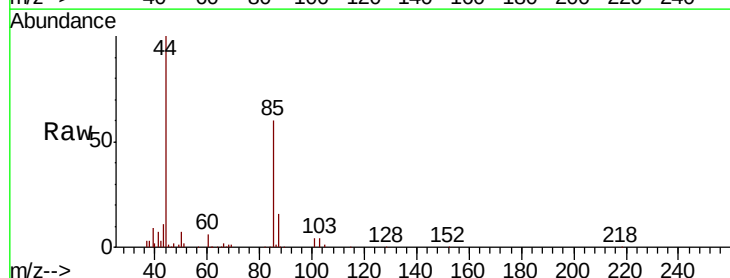
Acq: 15 Apr 2022 9:21

Tgt Ion: 85 Resp: 102725

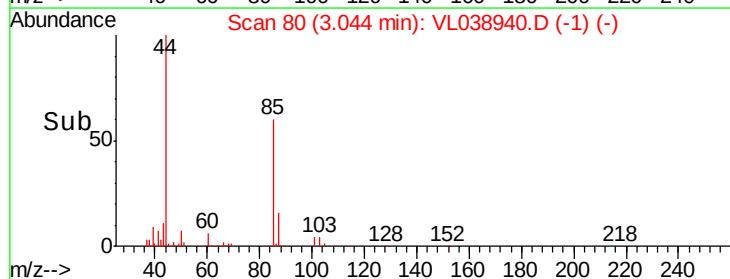
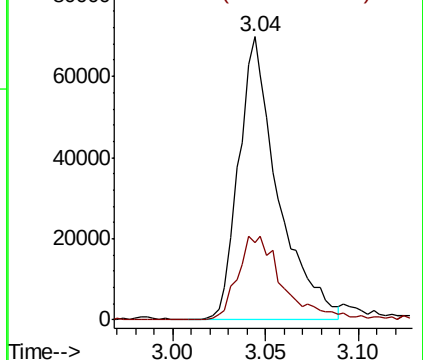
Ion Ratio Lower Upper

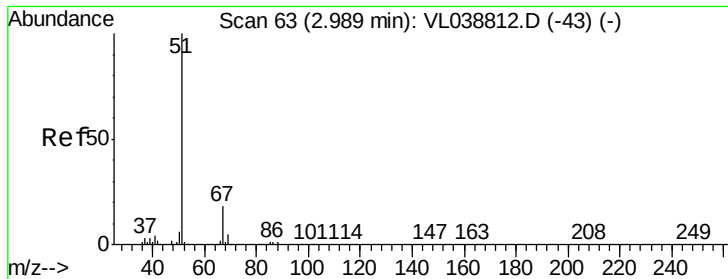
85 100

87 27.2 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.298 ppbv m

RT: 2.99 Instrument: MSVOA_1

Delta R.T. -0.01 min

Lab File: ClientSampleId: AA-2

Acq: 15 Apr 2022 9:21

Tot Ion:

Ion Ratio

51 100

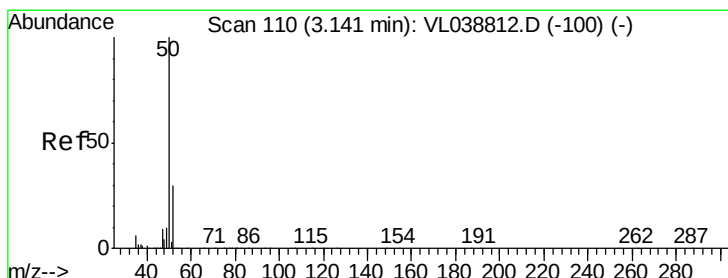
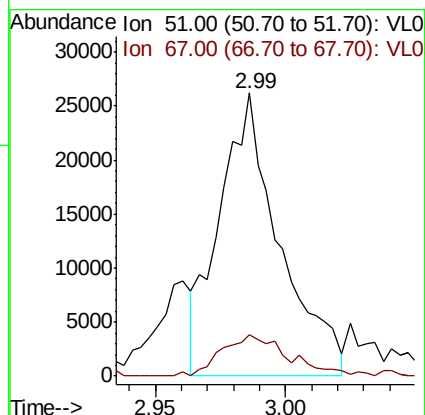
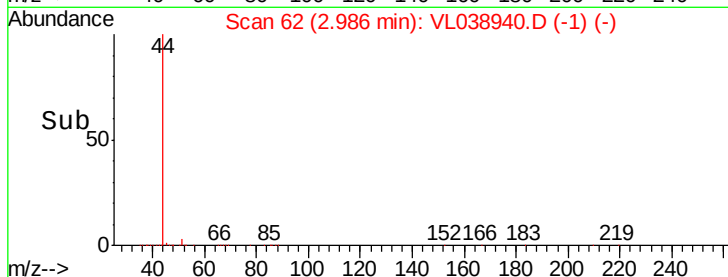
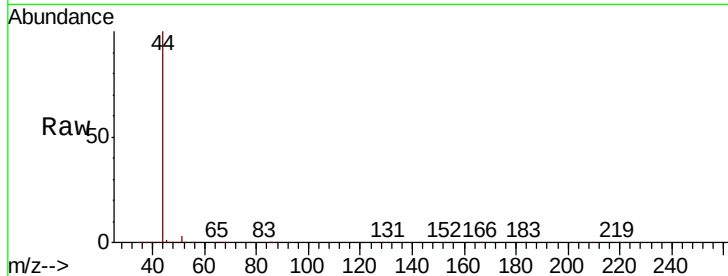
67 17.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#4

Chloromethane

Concen: 0.575 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL038940.D

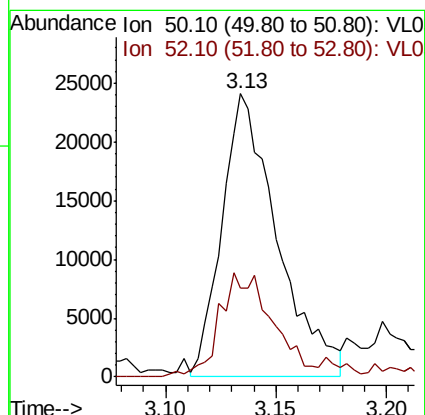
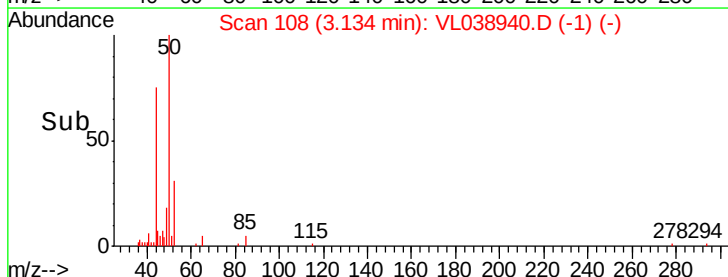
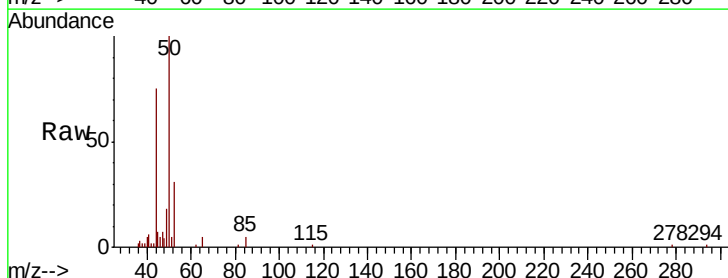
Acq: 15 Apr 2022 9:21

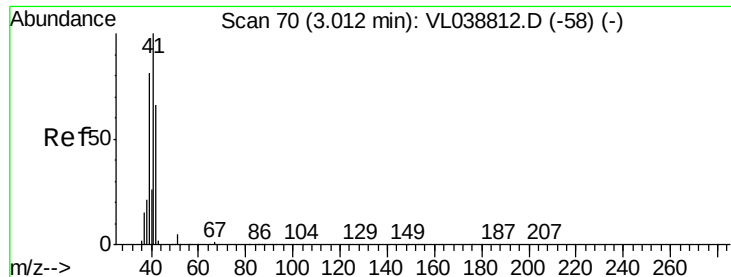
Tgt Ion: 50 Resp: 41943

Ion Ratio Lower Upper

50 100

52 29.3 24.3 36.5





#9

Propene

Concen: 1.105 ppbv m

RT: 3.02 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 15 Apr 2022 9:21

Tot Ion:

Ion Ratio

41 100

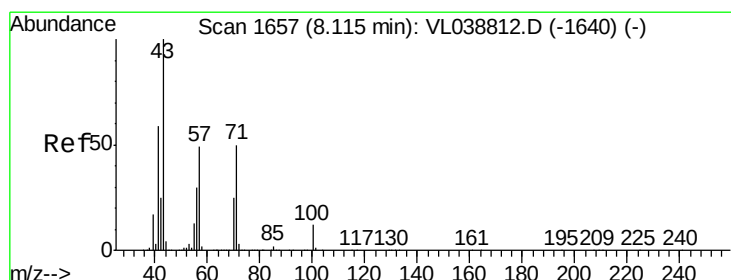
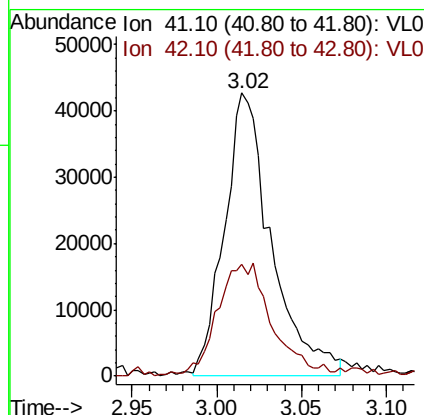
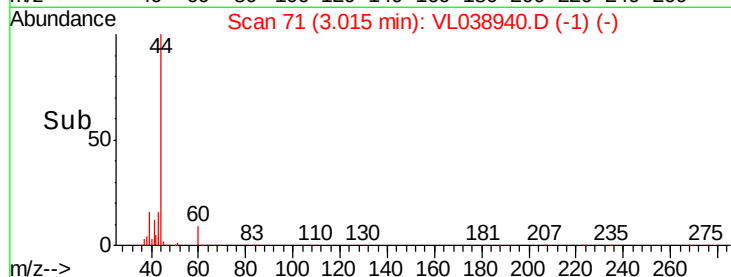
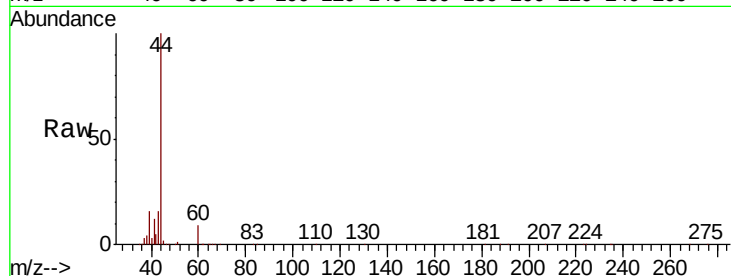
42 201.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#10

Heptane

Concen: 0.221 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. -0.01 min

Lab File: VL038940.D

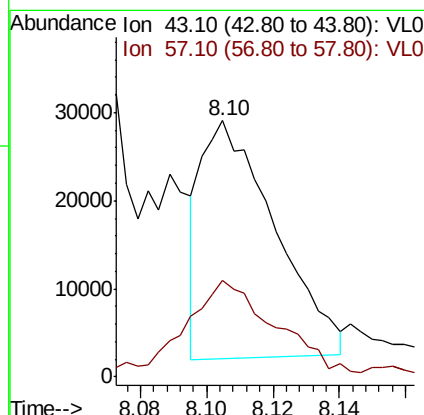
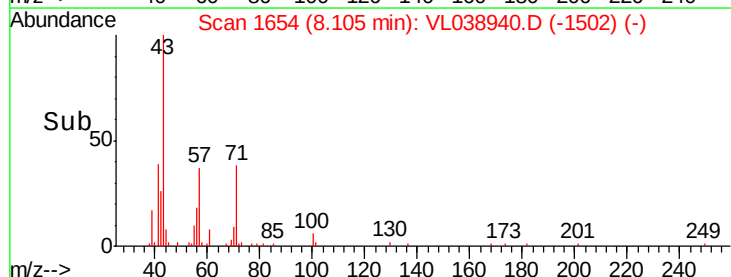
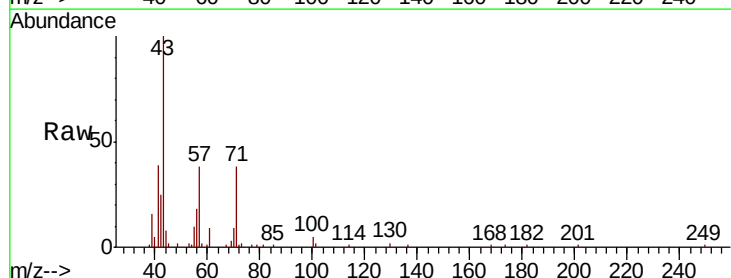
Acq: 15 Apr 2022 9:21

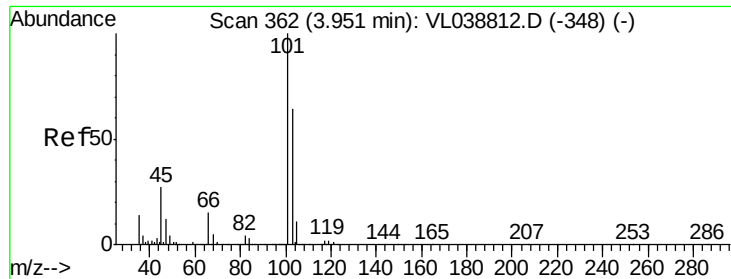
Tgt Ion: 43 Resp: 41459

Ion Ratio Lower Upper

43 100

57 57.1 39.3 58.9



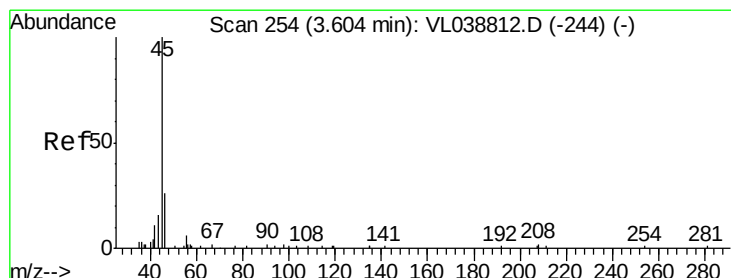
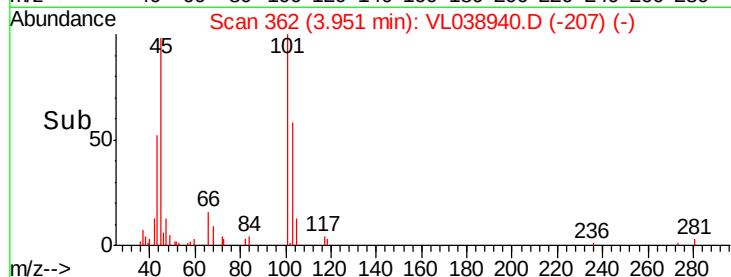
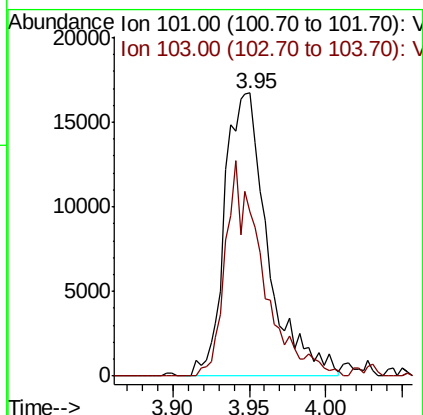
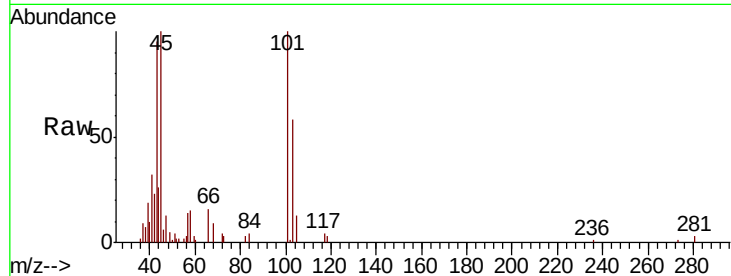


#11
 Trichlorofluoromethane
 Concen: 0.249 ppbv m
 RT: 3.95
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 9:21

Tot Ion:1
 Ion Rati
 101 100
 103 58.

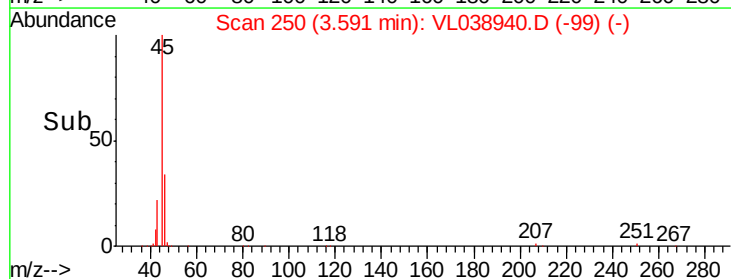
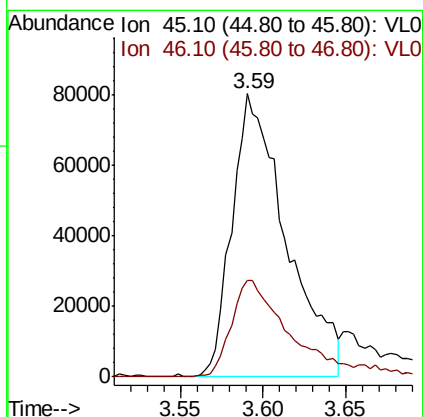
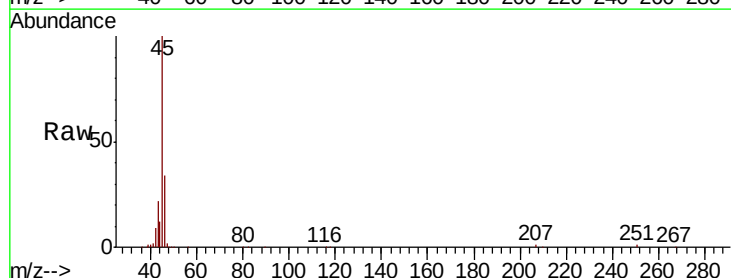
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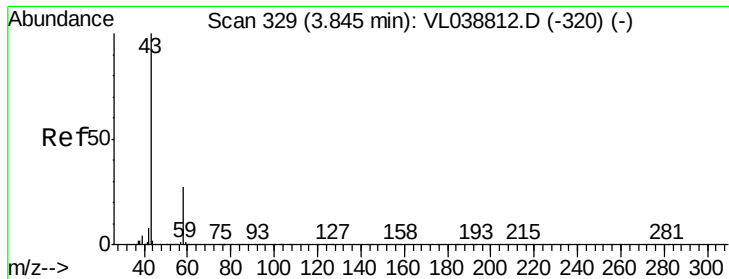
Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022



#13
 Ethanol
 Concen: 40.481 ppbv
 RT: 3.59 min Scan# 250
 Delta R.T. -0.01 min
 Lab File: VL038940.D
 Acq: 15 Apr 2022 9:21

Tgt Ion: 45 Resp: 183281
 Ion Ratio Lower Upper
 45 100
 46 39.1 0.0 0.0#





#15

Acetone

Concen: 4.295 ppbv

RT: 3.84

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 15 Apr 2022 9:21

Tot Ion:

Ion Ratio

43 100

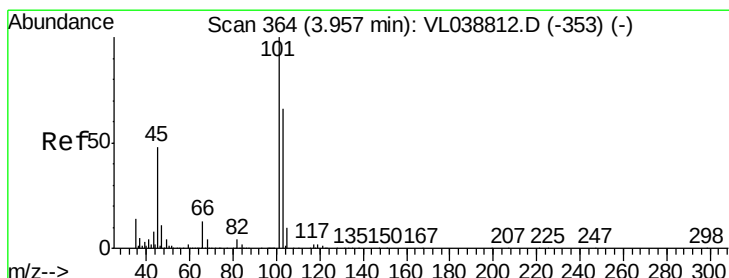
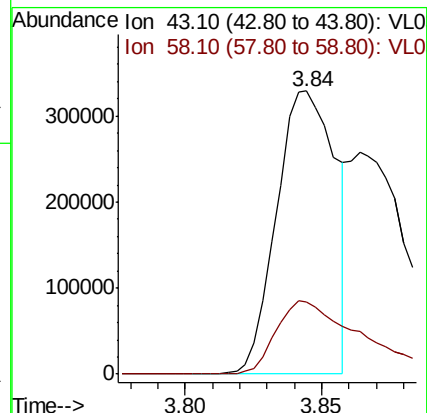
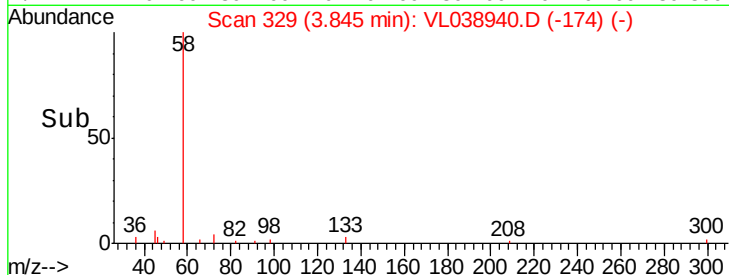
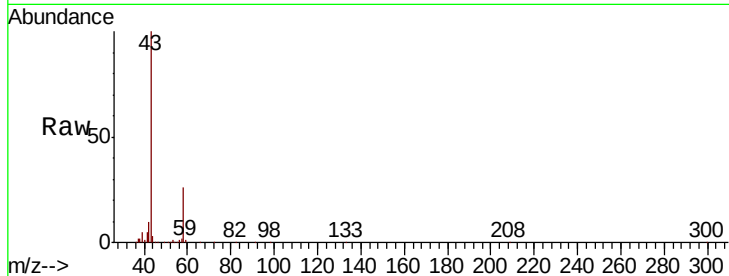
58 42.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#19

Isopropyl Alcohol

Concen: 0.921 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL038940.D

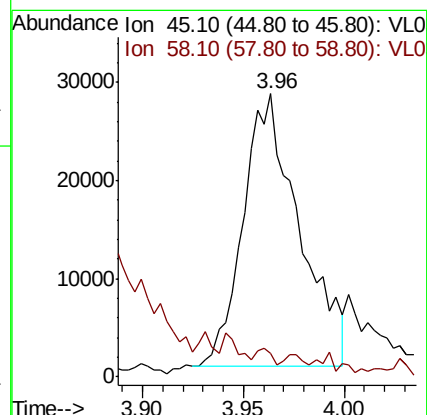
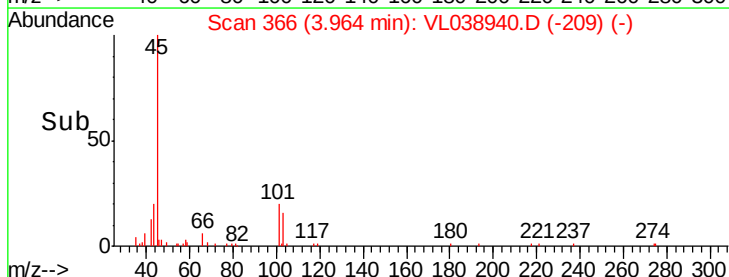
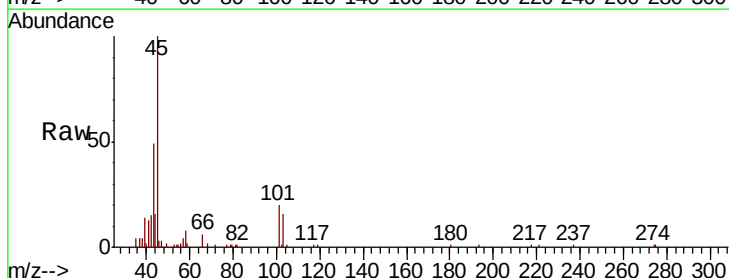
Acq: 15 Apr 2022 9:21

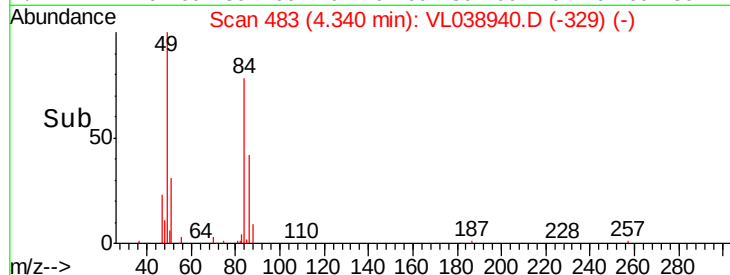
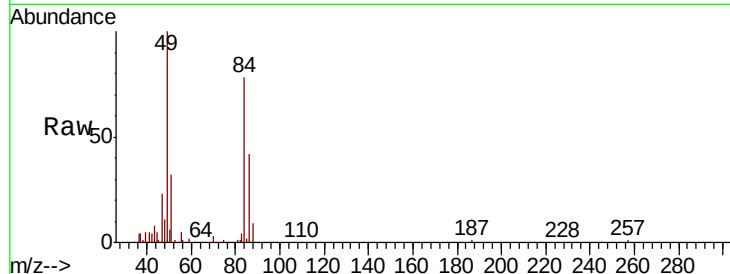
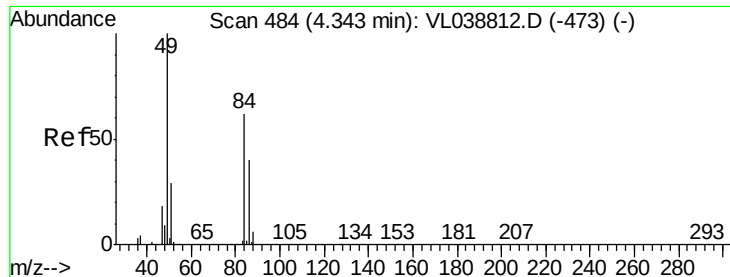
Tgt Ion: 45 Resp: 54051

Ion Ratio Lower Upper

45 100

58 383.6 0.0 0.0#



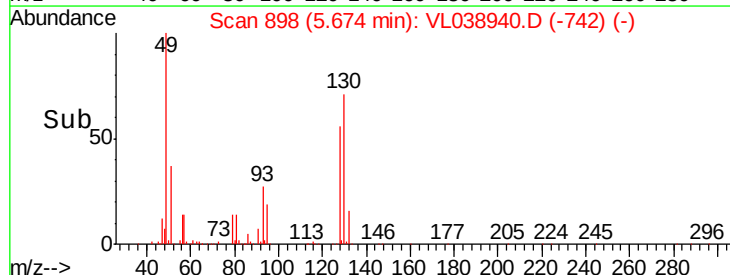
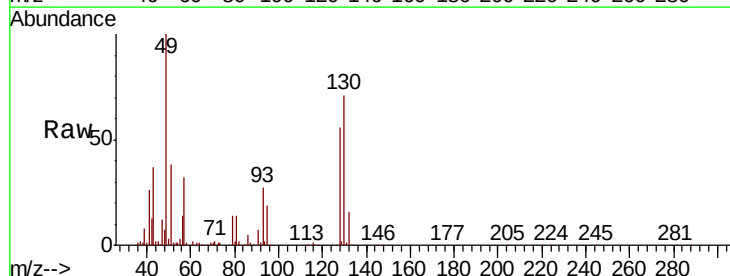
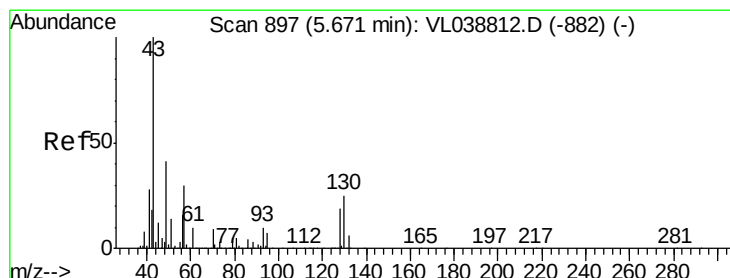
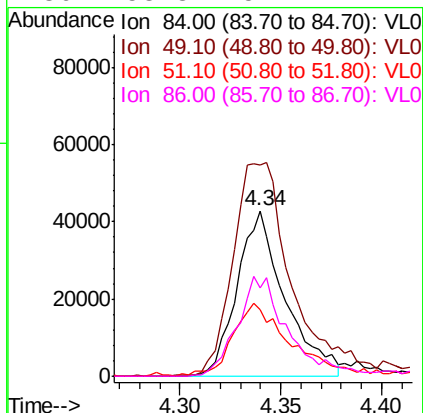


#20
Methvlene Chloride
Concen: 1.709 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Apr 2022 9:21

Tot Ion:
Ion Ratio
84 100
49 127.
51 40.
86 53.3 51.4 77.2

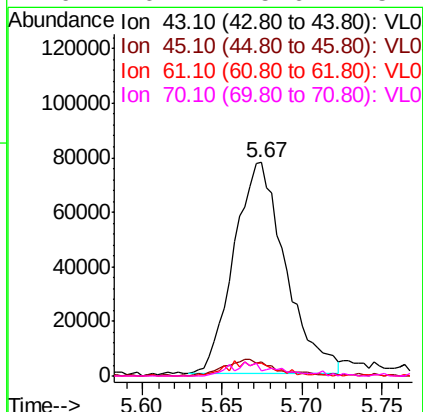
Manual Integrations
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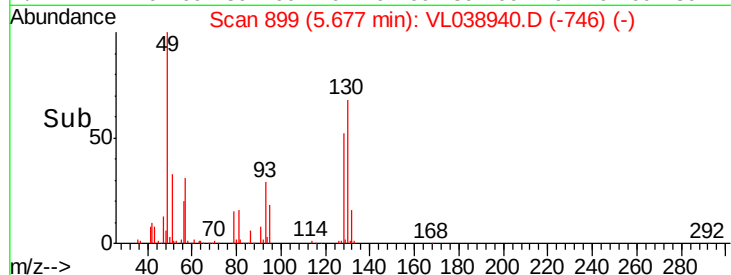
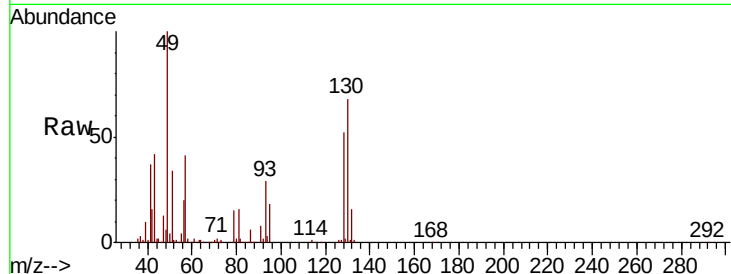
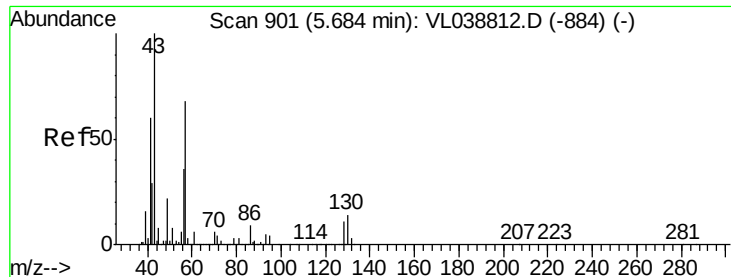
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#25
Ethyl Acetate
Concen: 0.585 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL038940.D
Acq: 15 Apr 2022 9:21

Tgt Ion: 43 Resp: 170616
Ion Ratio Lower Upper
43 100
45 8.8 8.4 12.6
61 6.4 7.9 11.9#
70 6.1 5.6 8.4



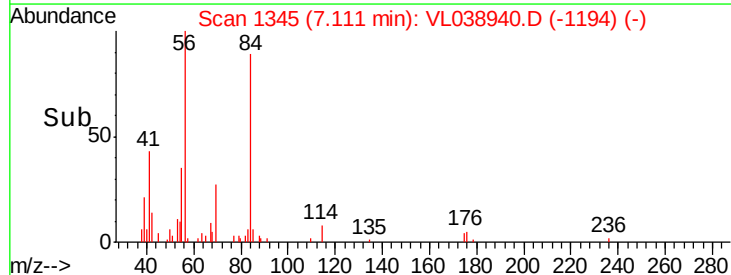
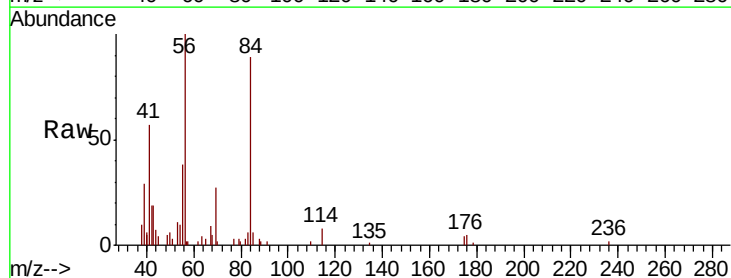
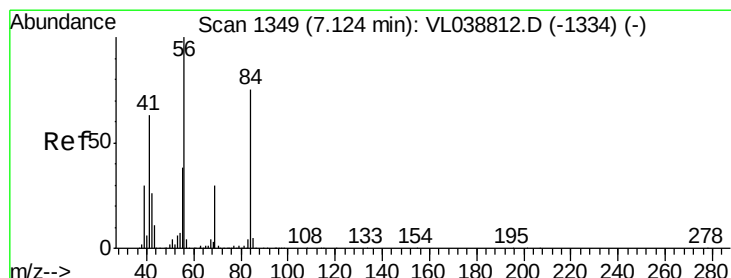
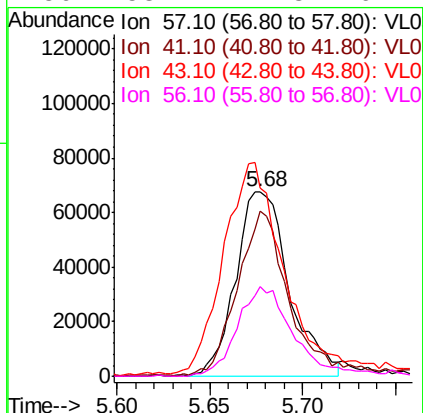


#26
Hexane
Concen: 1.016 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Apr 2022 9:21

Tot Ion:
Ion Ratio
57 100
41 89.
43 140.
56 53.7 42.8 64.2

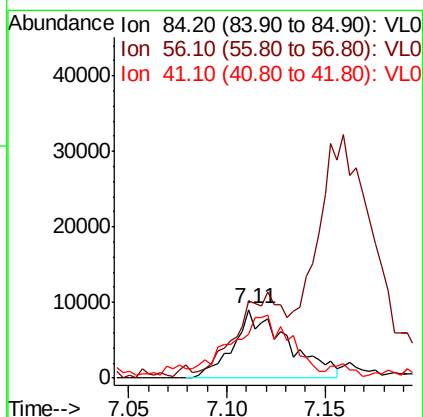
Manual Integrations
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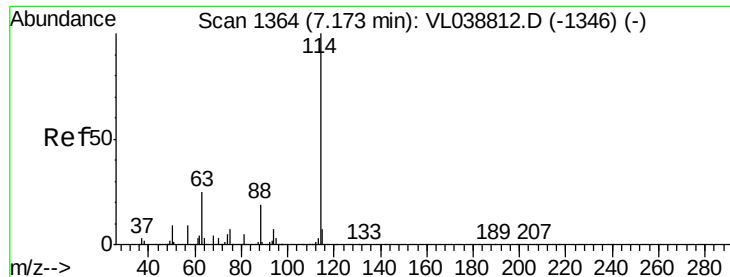
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#30
Cyclohexane
Concen: 0.149 ppbv m
RT: 7.11 min Scan# 1345
Delta R.T. -0.01 min
Lab File: VL038940.D
Acq: 15 Apr 2022 9:21

Tgt Ion: 84 Resp: 17432
Ion Ratio Lower Upper
84 100
56 0.0 114.4 171.6#
41 0.0 69.0 103.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16

Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId : AA-2

Acq: 15 Apr 2022 9:21

Tot Ion:1

Ion Rati

114 100

63 25.

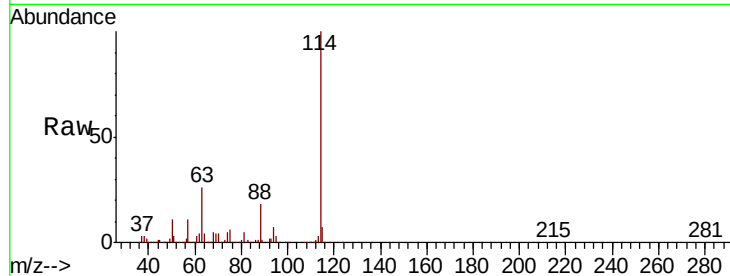
88 18.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

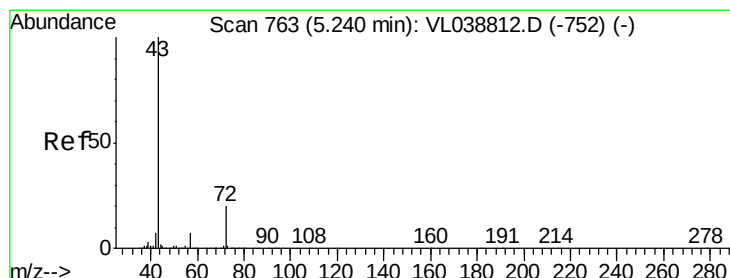
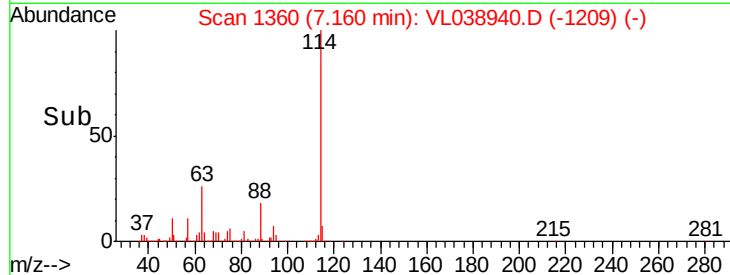
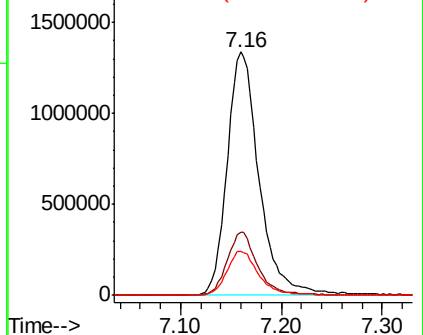
Supervised By :Mahesh Dadoda 04/18/2022



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.224 ppbv

RT: 5.23 min Scan# 761

Delta R.T. -0.01 min

Lab File: VL038940.D

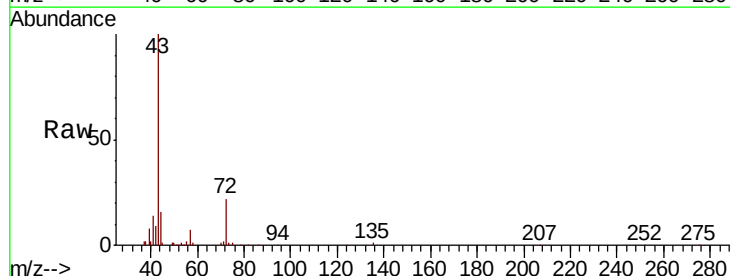
Acq: 15 Apr 2022 9:21

Tgt Ion: 43 Resp: 142764

Ion Ratio Lower Upper

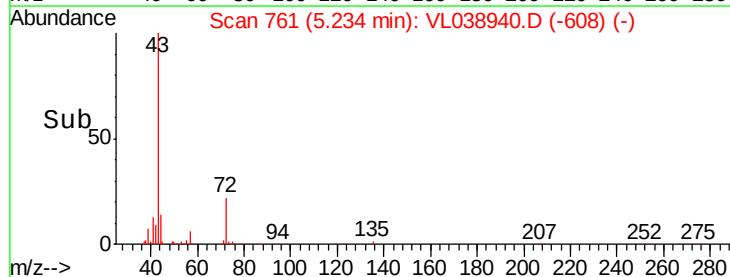
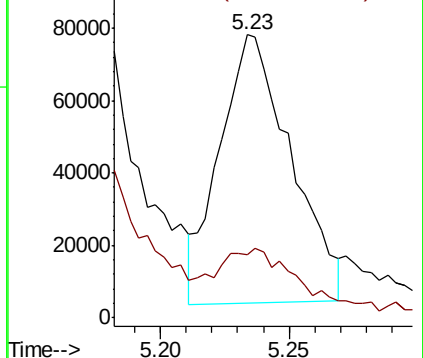
43 100

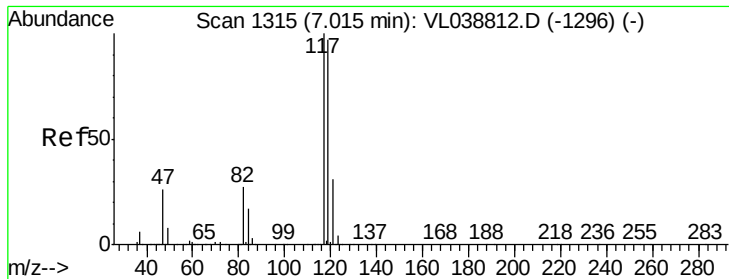
72 30.2 16.9 25.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



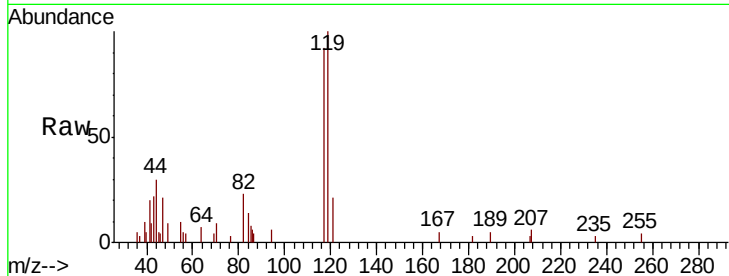


#35
Carbon Tetrachloride
Concen: 0.058 ppbv m
RT: 7.01
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Apr 2022 9:21

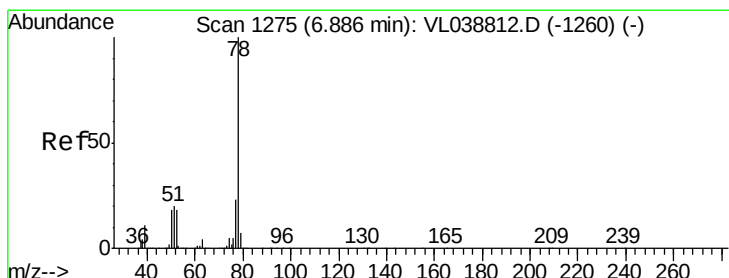
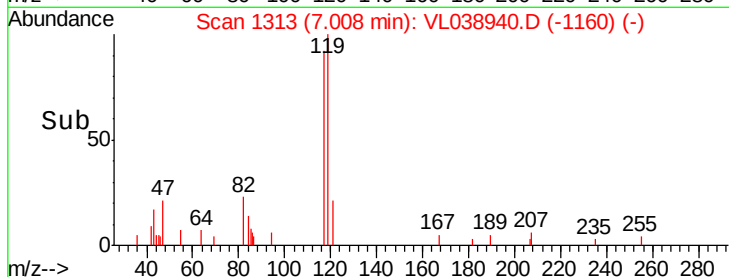
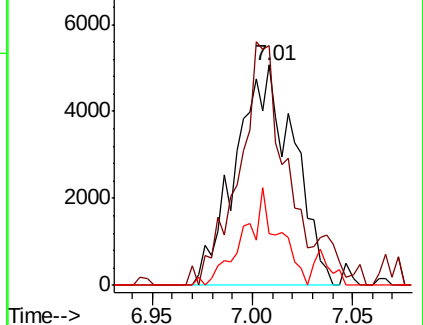
Tot Ion:1
Ion Rati
117 100
119 108.
121 23.

Manual Integrations
APPROVED

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

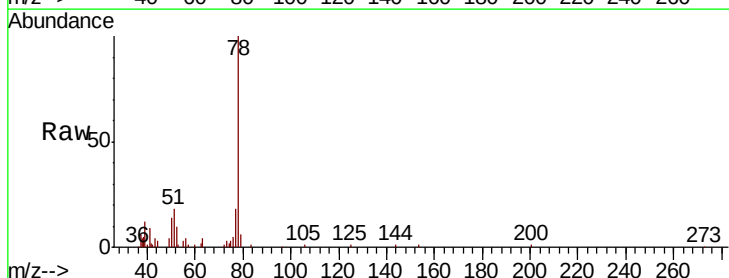


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

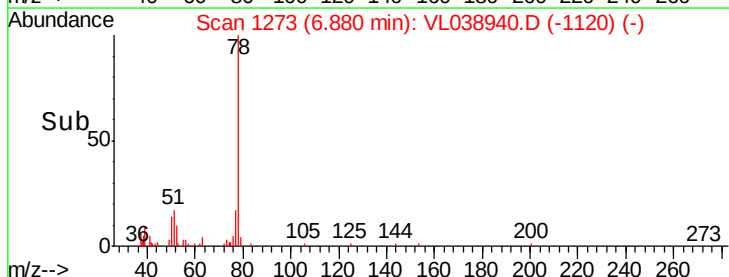
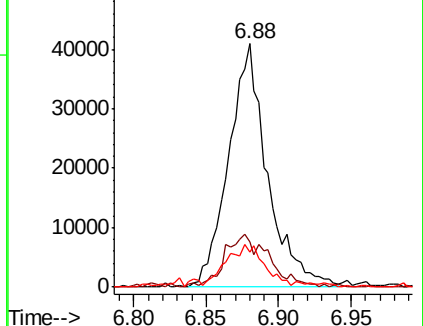


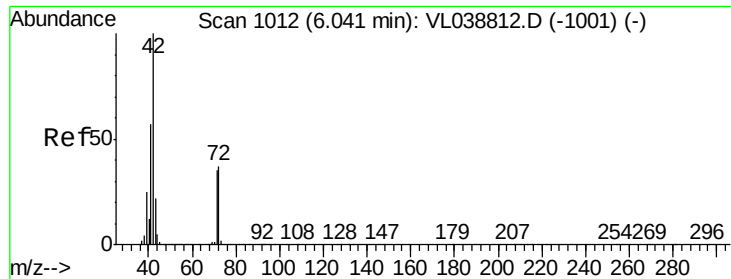
#36
Benzene
Concen: 0.283 ppbv
RT: 6.88 min Scan# 1273
Delta R.T. -0.01 min
Lab File: VL038940.D
Acq: 15 Apr 2022 9:21

Tgt Ion: 78 Resp: 76071
Ion Ratio Lower Upper
78 100
77 17.0 18.2 27.2#
50 14.4 14.0 21.0



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



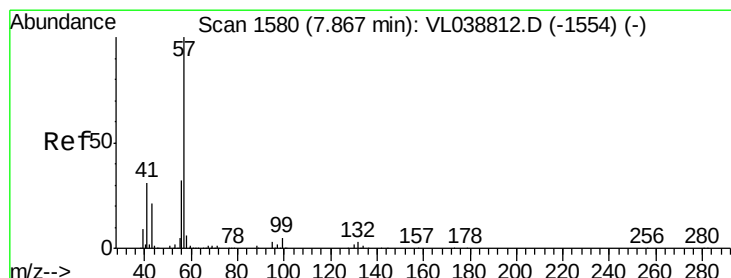
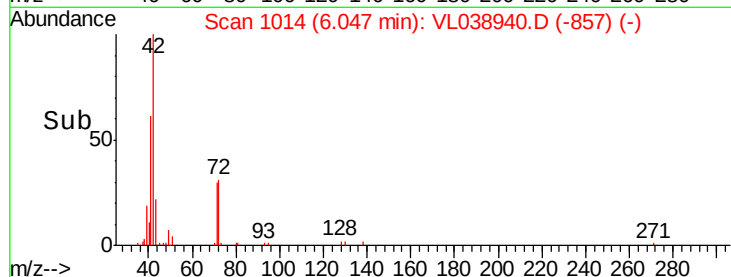
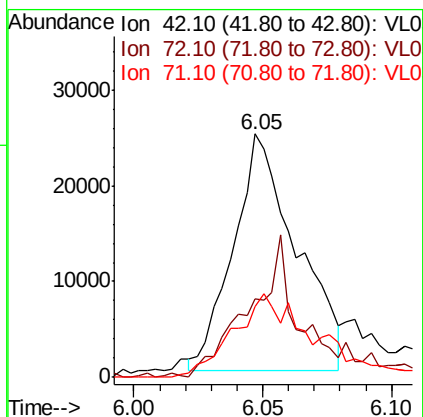
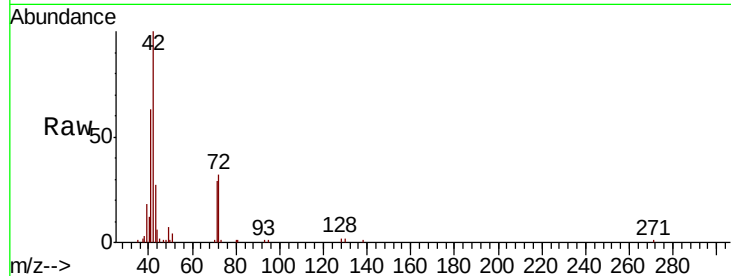


#41
Tetrahydrofuran
Concen: 0.383 ppbv
RT: 6.05
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Apr 2022 9:21

Tot Ion:
Ion Ratio
42 100
72 54.
71 48.

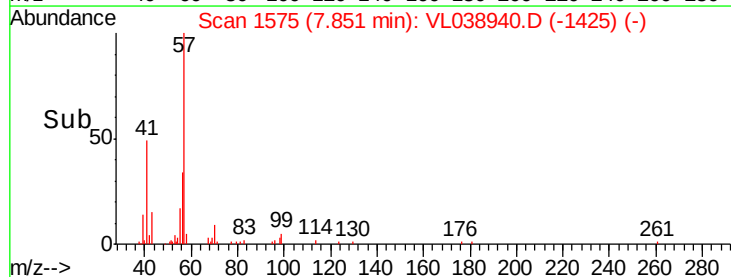
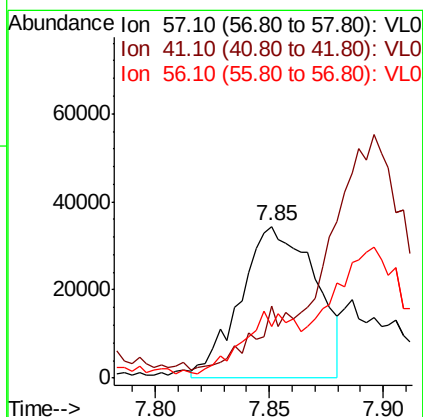
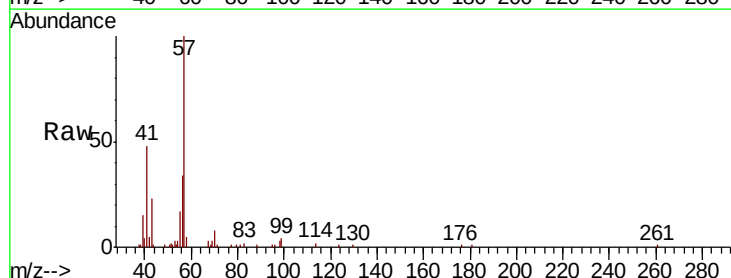
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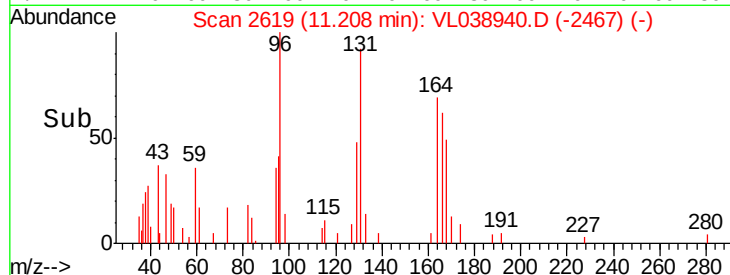
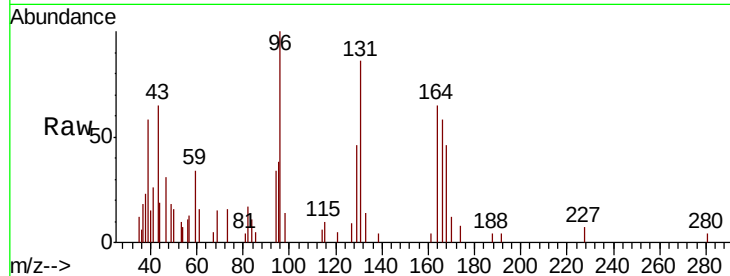
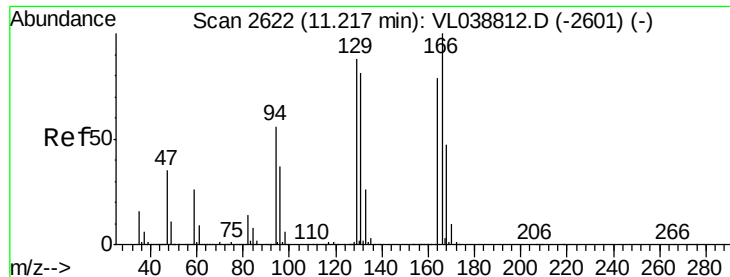
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#44
2,2,4-Trimethylpentane
Concen: 0.173 ppbv m
RT: 7.85 min Scan# 1575
Delta R.T. -0.02 min
Lab File: VL038940.D
Acq: 15 Apr 2022 9:21

Tgt Ion: 57 Resp: 78529
Ion Ratio Lower Upper
57 100
41 0.0 25.0 37.4#
56 0.0 25.3 37.9#



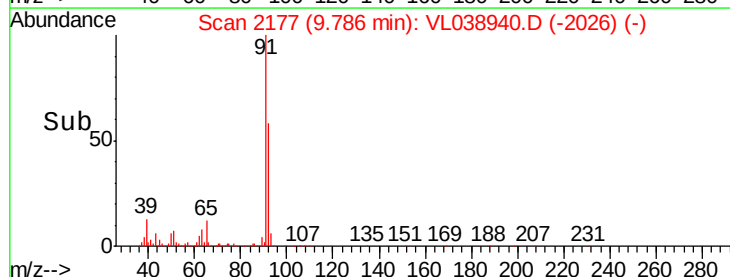
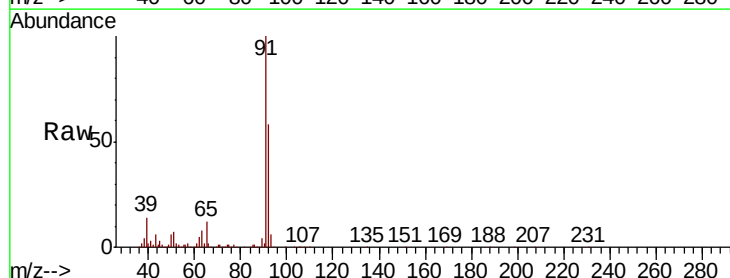
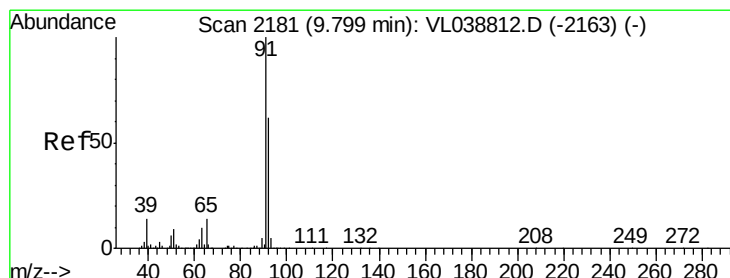
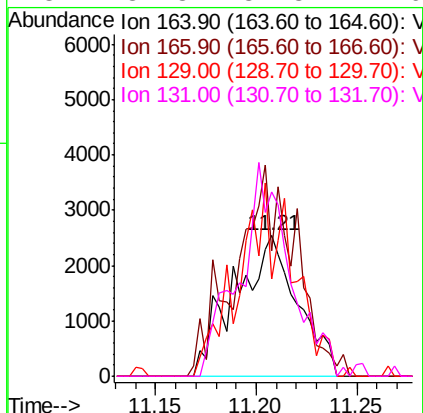


#52
Tetrachloroethene
Concen: 0.059 ppbv m
RT: 11.21
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Apr 2022 9:21

Tot Ion: 1
Ion Ratio
164 100
166 89.
129 69.
131 131.8 81.8 122.6#

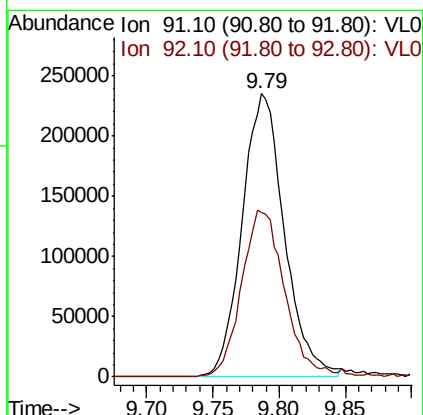
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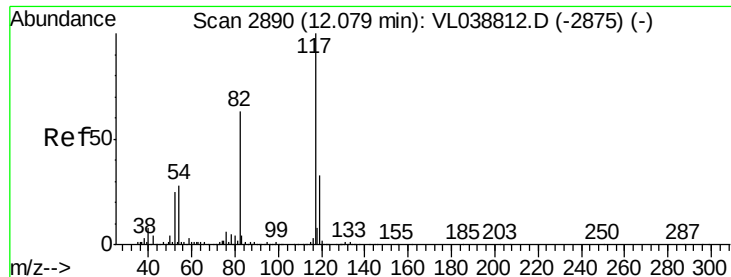
Reviewed By : Semsettin Yesilyurt 04/15/2022
Supervised By : Mahesh Dadoda 04/18/2022



#53
Toluene
Concen: 1.684 ppbv
RT: 9.79 min Scan# 2177
Delta R.T. -0.01 min
Lab File: VL038940.D
Acq: 15 Apr 2022 9:21

Tgt Ion: 91 Resp: 521822
Ion Ratio Lower Upper
91 100
92 60.4 49.2 73.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 15 Apr 2022 9:21

Tot Ion:1

Ion Rati

117 100

82 67.

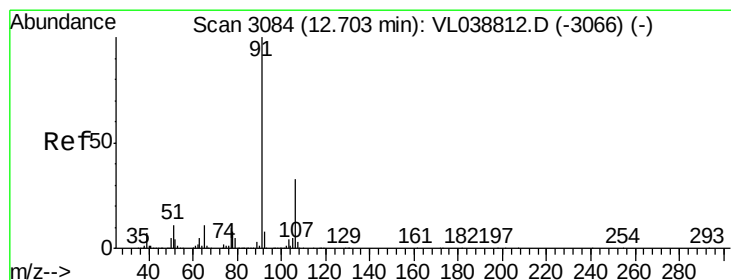
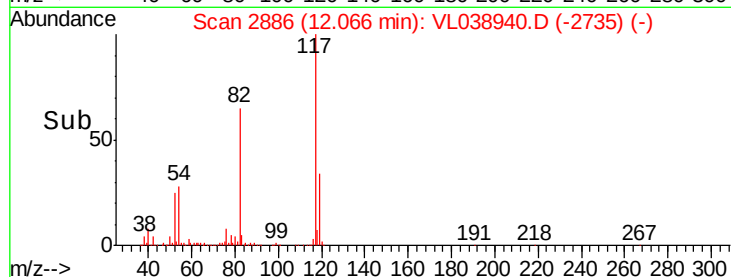
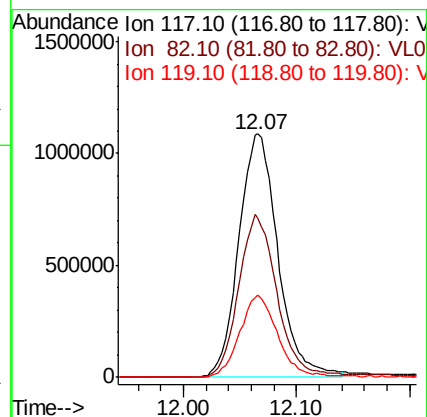
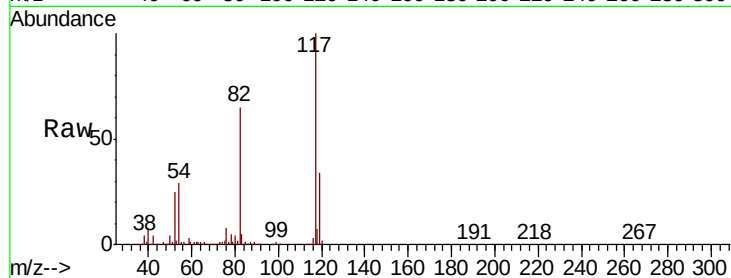
119 33.

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APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#58

Ethyl Benzene

Concen: 0.262 ppbv

RT: 12.69 min Scan# 3080

Delta R.T. -0.01 min

Lab File: VL038940.D

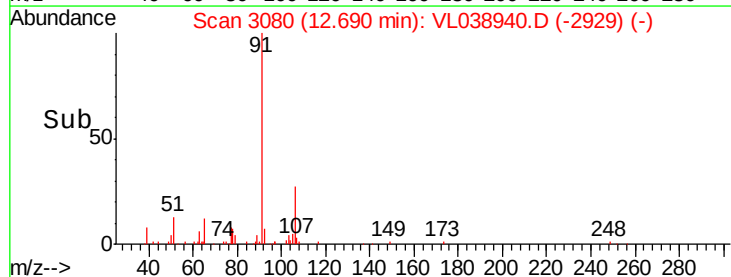
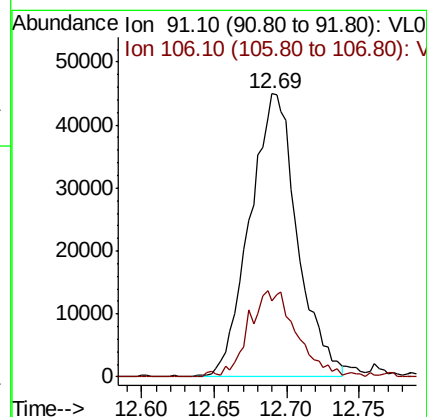
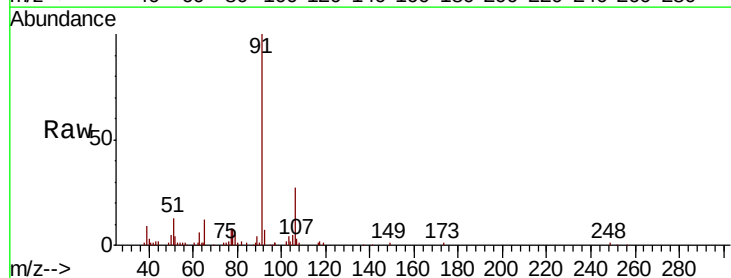
Acq: 15 Apr 2022 9:21

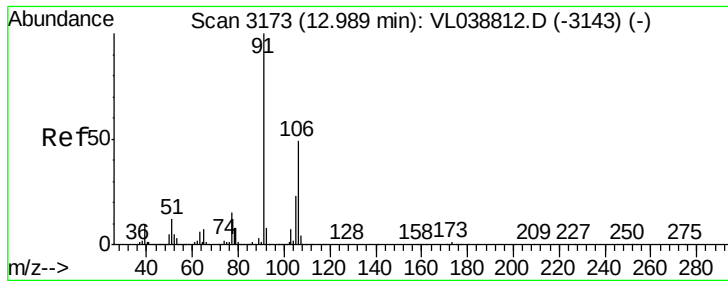
Tgt Ion: 91 Resp: 102497

Ion Ratio Lower Upper

91 100

106 26.8 26.7 40.1



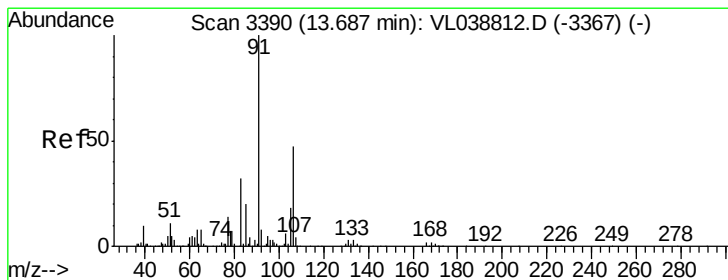
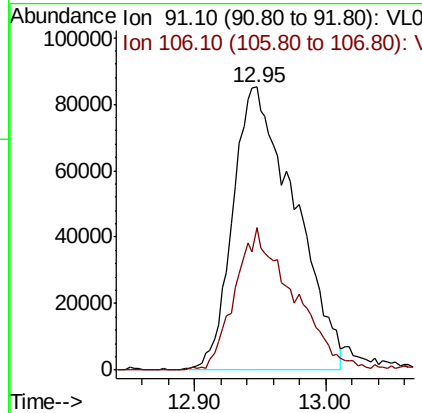
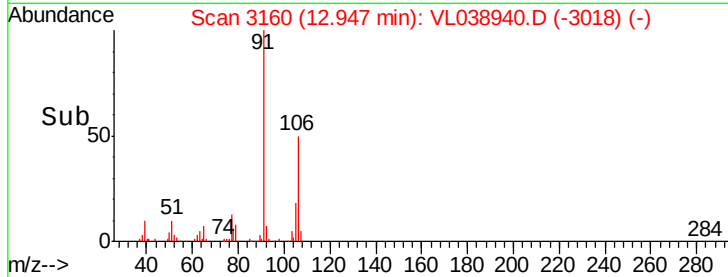
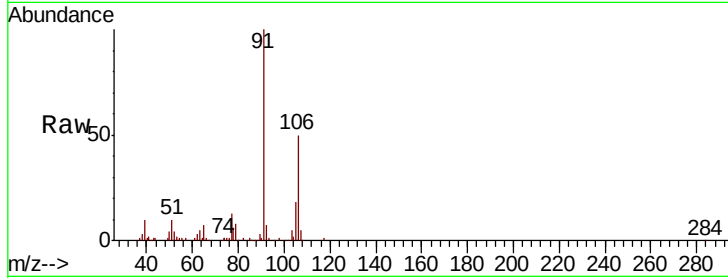


#59
m/p-Xylene
Concen: 0.849 ppbv m
RT: 12.95
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Apr 2022 9:21

Tot Ion:
Ion Ratio
91 100
106 0.

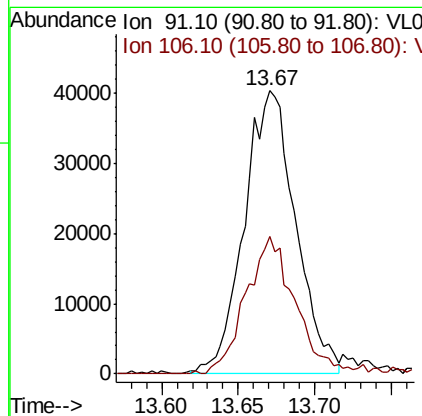
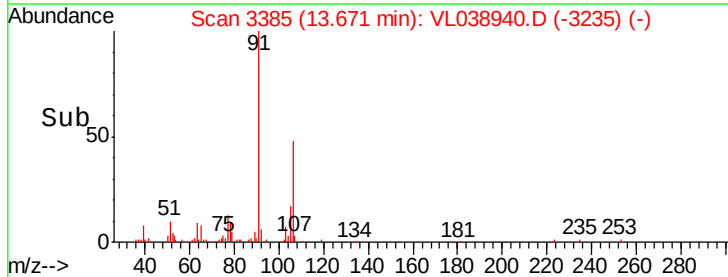
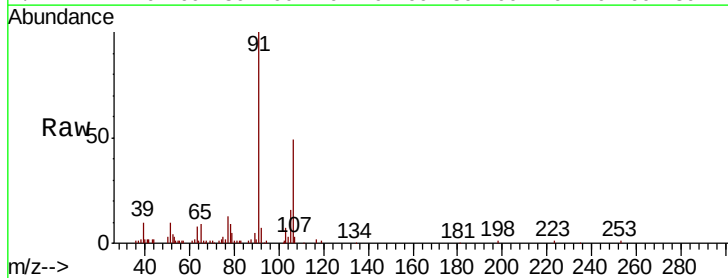
Manual Integrations
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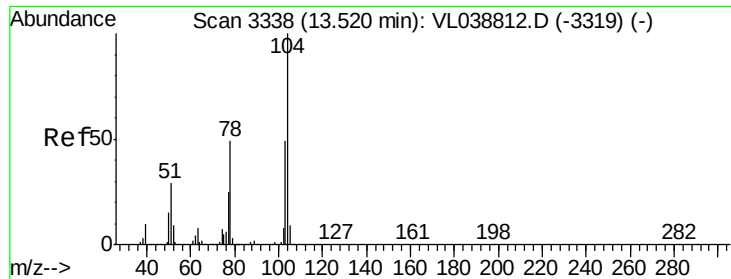
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#60
o-Xylene
Concen: 0.306 ppbv m
RT: 13.67 min Scan# 3385
Delta R.T. -0.02 min
Lab File: VL038940.D
Acq: 15 Apr 2022 9:21

Tgt Ion: 91 Resp: 94107
Ion Ratio Lower Upper
91 100
106 48.3 23.8 71.4



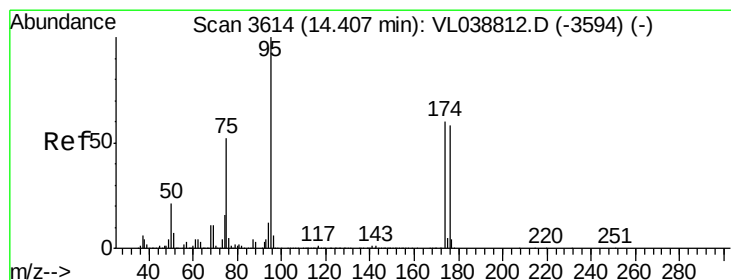
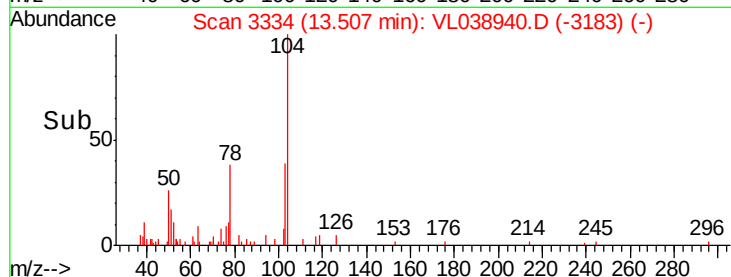
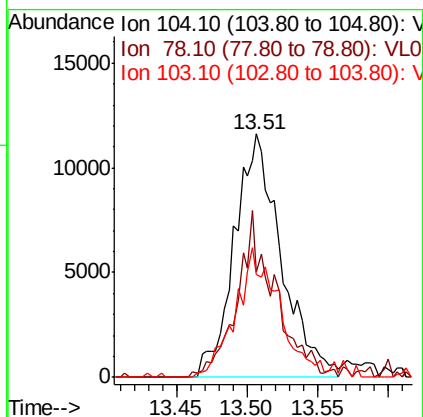
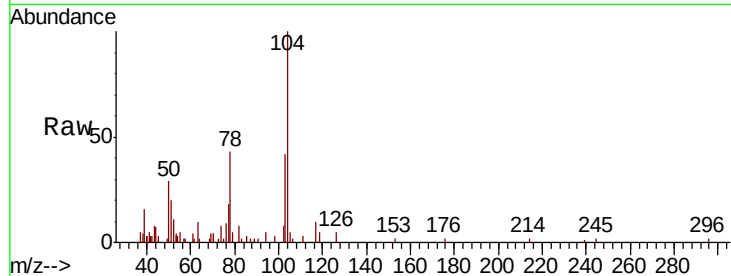


#61
Stvrene
Concen: 0.143 ppbv m
RT: 13.51
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 9:21

Tot Ion:1
Ion Rati
104 100
78 55.
103 51.

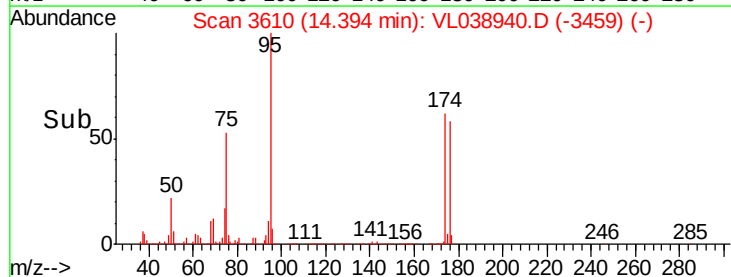
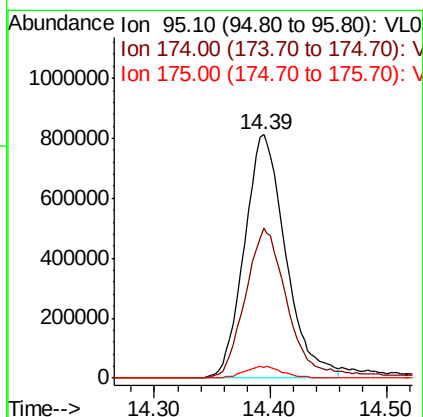
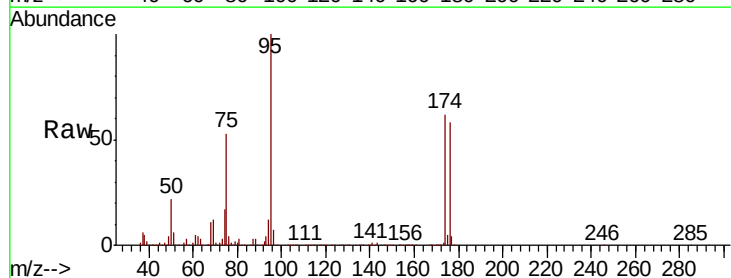
Manual Integrations
APPROVED

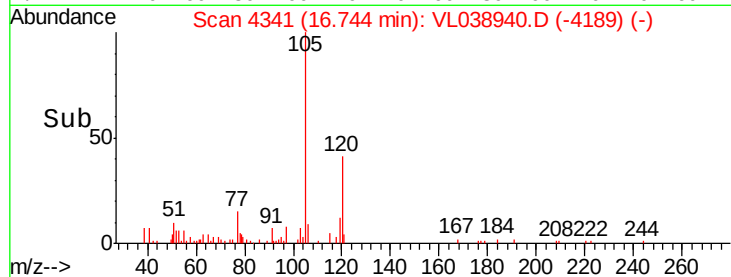
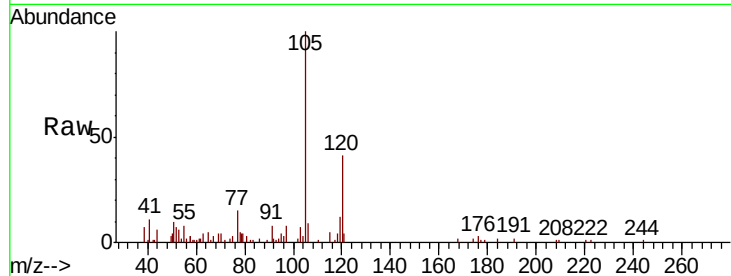
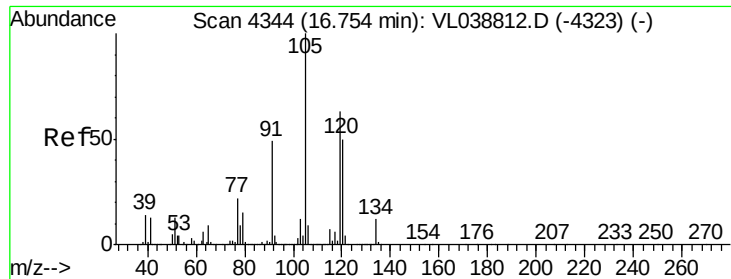
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.153 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.01 min
Lab File: VL038940.D
Acq: 15 Apr 2022 9:21

Tgt Ion: 95 Resp: 2016268
Ion Ratio Lower Upper
95 100
174 65.2 52.0 78.0
175 4.9 4.0 6.0





#74

1,2,4-Trimethylbenzene

Concen: 0.163 ppbv m

RT: 16.74

Delta R.T

Lab File: ClientSampleId :

Acq: 15 Apr 2022 9.21

Tot Ion:1

Ion Rati

105 100

120 41.

91 8.

77 15.1 17.3 25.9#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022

