

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039061.D
 Acq On : 14 May 2022 7:16
 Operator : SY/AP
 Sample : N2853-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SG-7

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/16/2022
 Supervised By : Mahesh Dadoda 05/17/2022

Quant Time: May 14 08:46:47 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	934788	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2595368	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	2230154	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.39 95 1674763 9.48 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.04	85	42736	0.292	ppbv	95
3) Chlorodifluoromethane	2.98	51	98417	0.848	ppbv #	83
4) Chloromethane	3.14	50	32171	0.554	ppbv #	84
9) Propene	3.01	41	61980m	1.224	ppbv	
10) Heptane	8.10	43	67156m	0.540	ppbv	
11) Trichlorofluoromethane	3.94	101	30158m	0.240	ppbv	
13) Ethanol	3.59	45	743514	207.407	ppbv	89
15) Acetone	3.84	43	1521483	17.255	ppbv	94
17) tert-Butyl alcohol	4.30	59	32465m	0.479	ppbv	
19) Isopropyl Alcohol	3.95	45	744401	17.755	ppbv #	94
20) Methylene Chloride	4.33	84	99392	2.991	ppbv	96
26) Hexane	5.68	57	145391	1.550	ppbv #	51
30) Cyclohexane	7.11	84	15989m	0.204	ppbv	
34) 2-Butanone	5.23	43	171727	1.297	ppbv	96
35) Carbon Tetrachloride	7.01	117	8845m	0.052	ppbv	
36) Benzene	6.87	78	114042	0.513	ppbv #	93
41) Tetrahydrofuran	6.04	42	104418	1.173	ppbv	96
44) 2,2,4-Trimethylpentane	7.85	57	227755m	0.584	ppbv	
50) 4-Methyl-2-Pentanone	8.74	43	90497m	0.390	ppbv	
52) Tetrachloroethene	11.21	164	3236m	0.041	ppbv	
53) Toluene	9.78	91	1230880	4.944	ppbv	99
58) Ethyl Benzene	12.69	91	285648	0.890	ppbv	99
59) m/p-Xylene	12.95	91	900563	3.287	ppbv	92
60) o-Xylene	13.67	91	317353	1.231	ppbv	98
72) 4-Ethyltoluene	15.82	105	115719m	0.394	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	70118m	0.265	ppbv	
74) 1,2,4-Trimethylbenzene	16.73	105	296431m	1.023	ppbv	
79) Naphthalene	22.17	128	30365m	0.129	ppbv	

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

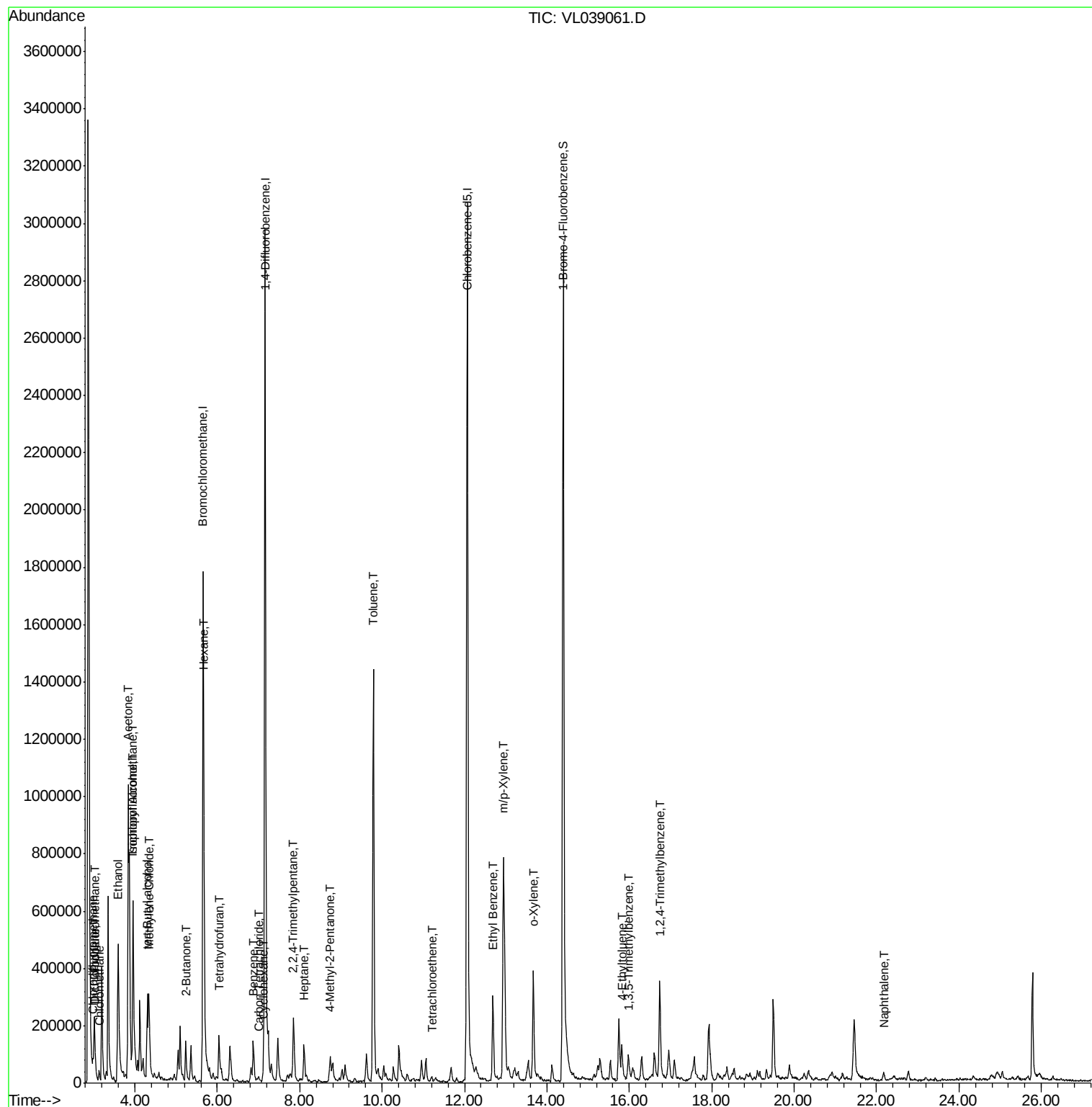
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
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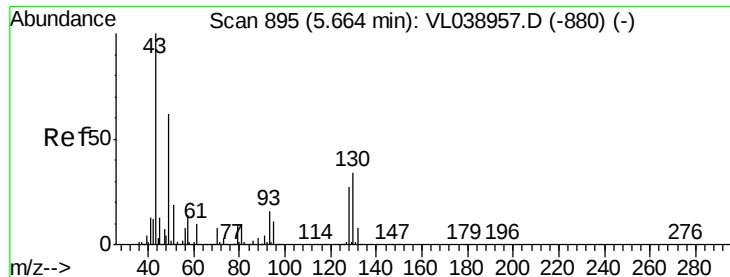
Instrument :
MSVOA_L
ClientSampleId :
SG-7

Quant Time: May 14 08:46:47 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522
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Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 7:10

Tot Ion:

Ion Ratio

49 100

128 50.

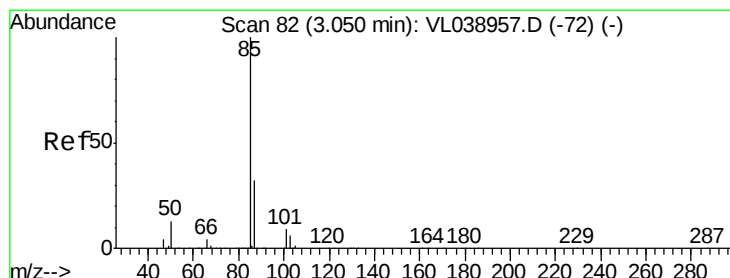
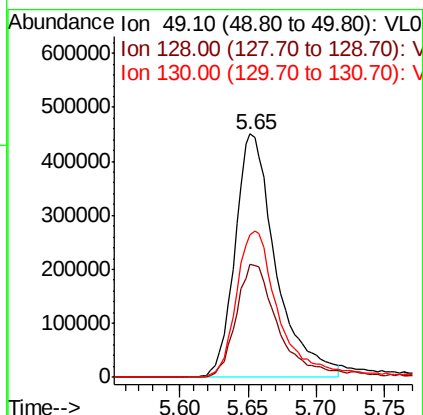
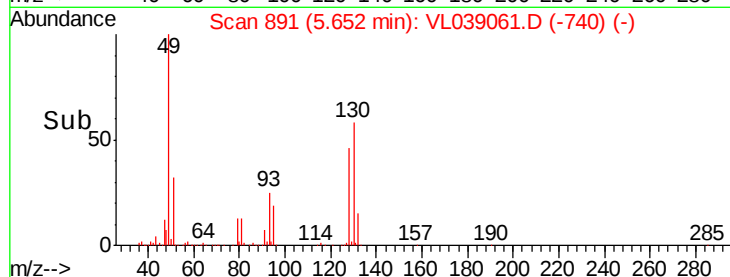
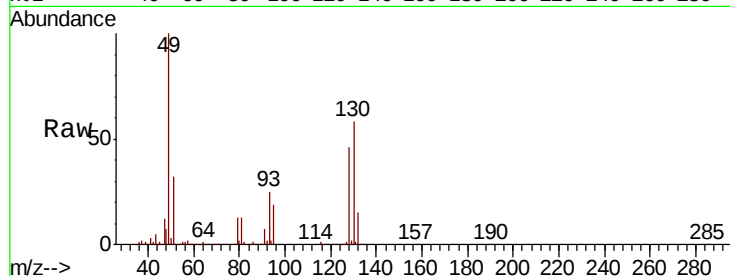
130 64.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#2

Dichlorodifluoromethane

Concen: 0.292 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL039061.D

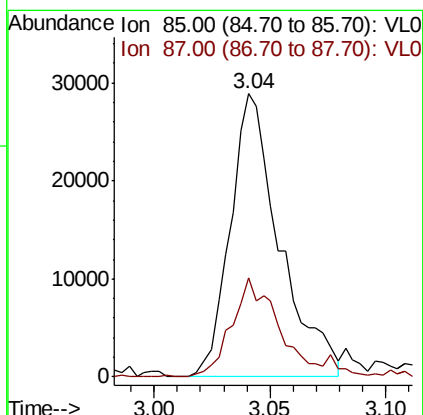
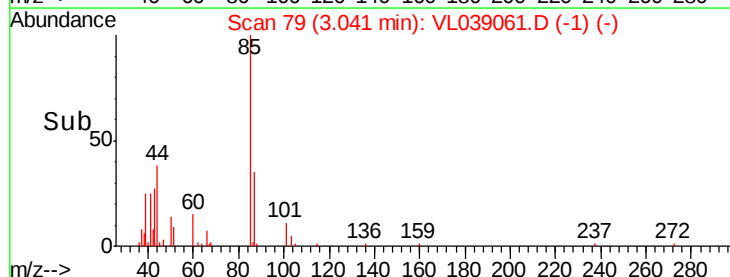
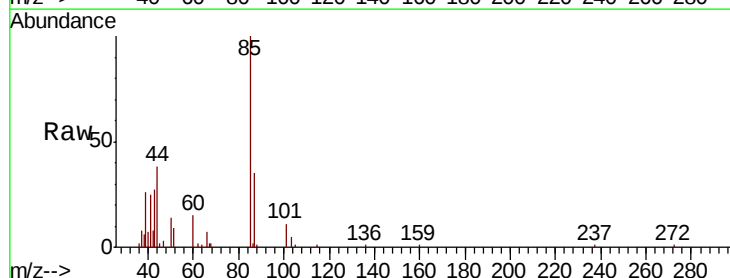
Acq: 14 May 2022 7:16

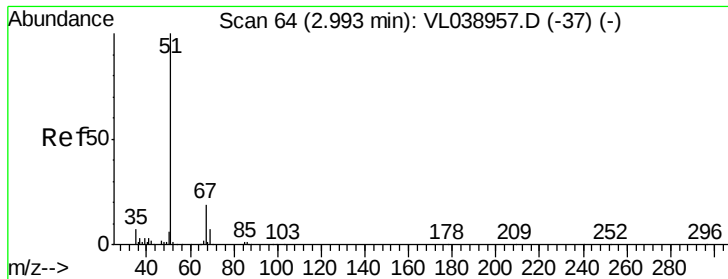
Tgt Ion: 85 Resp: 42736

Ion Ratio Lower Upper

85 100

87 35.1 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.848 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId :

Lab File: SG-7

Acq: 14 May 2022 7:10

Tot Ion:

Ion Ratio

51 100

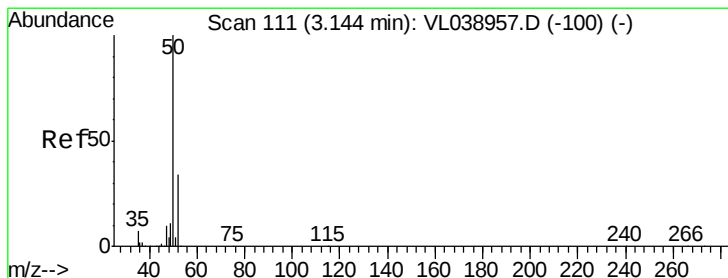
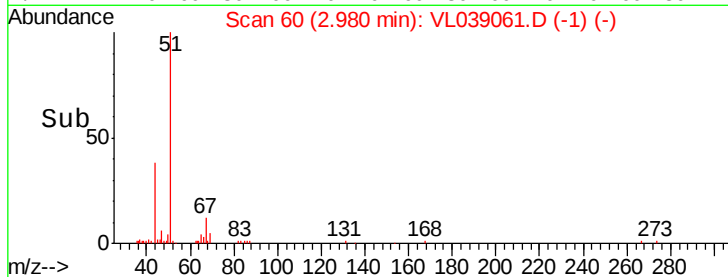
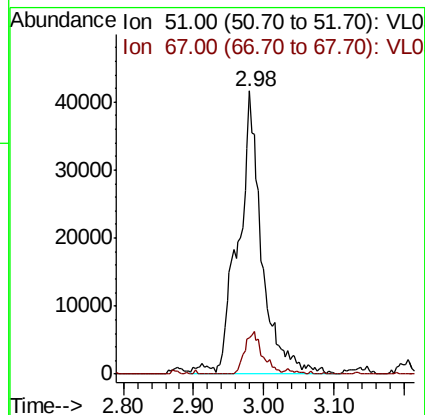
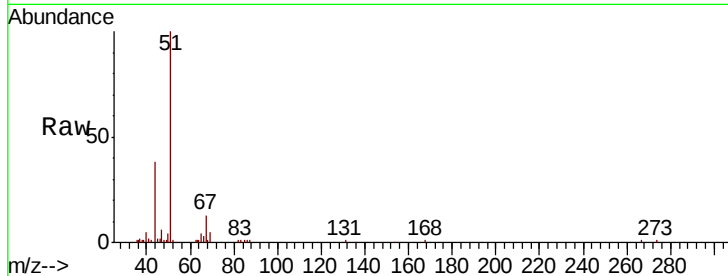
67 12.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#4

Chloromethane

Concen: 0.554 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL039061.D

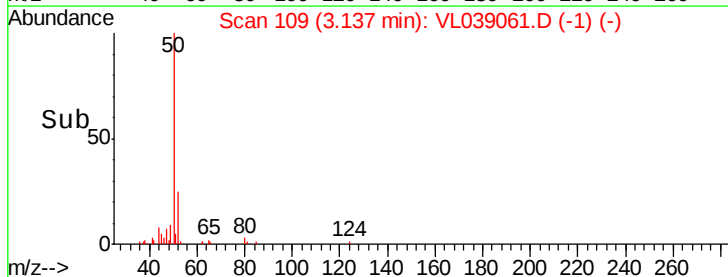
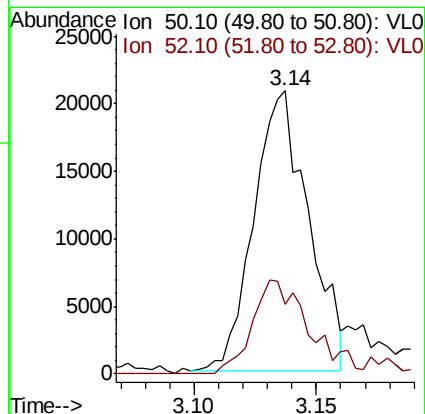
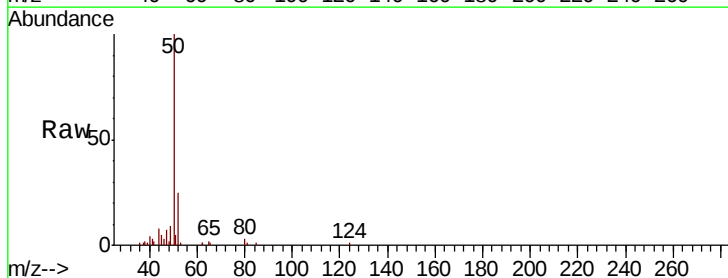
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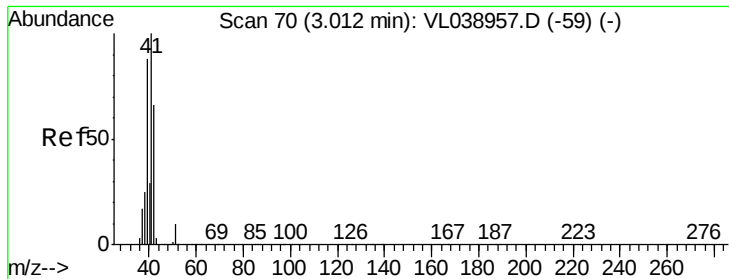
Tgt Ion: 50 Resp: 32171

Ion Ratio Lower Upper

50 100

52 24.9 27.3 40.9#





#9

Propene

Concen: 1.224 ppbv m

RT: 3.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 May 2022 7:10

Tot Ion:

Ion Ratio

41 100

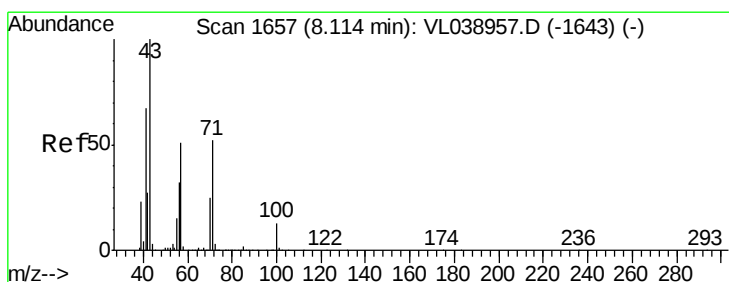
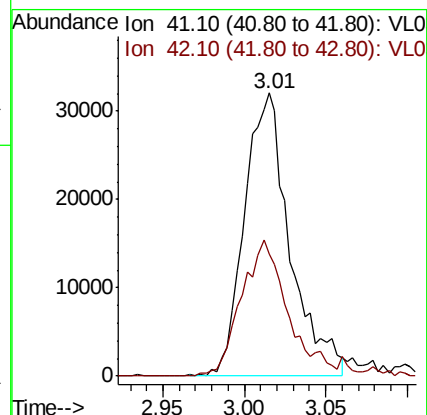
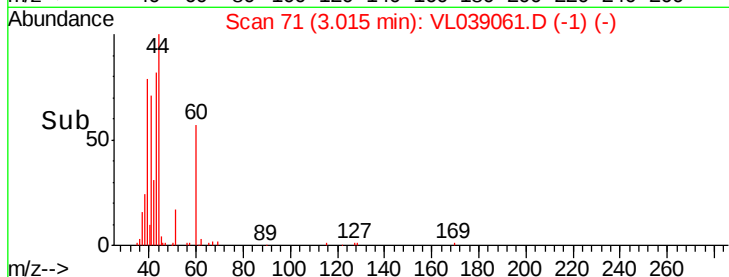
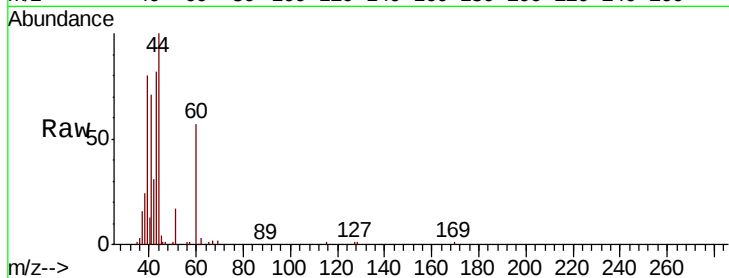
42 146.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#10

Heptane

Concen: 0.540 ppbv m

RT: 8.10 min Scan# 1653

Delta R.T. -0.01 min

Lab File: VL039061.D

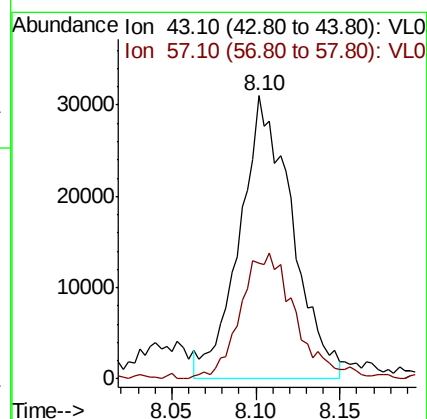
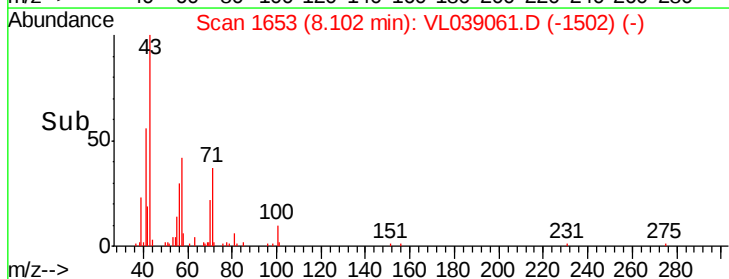
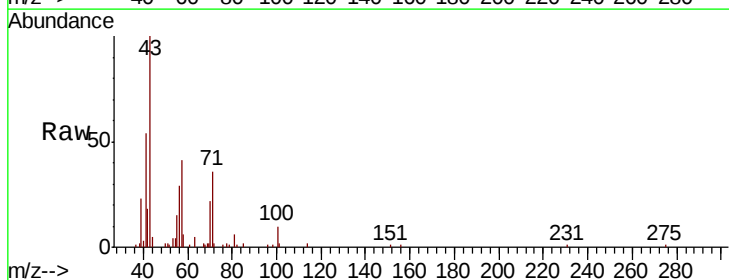
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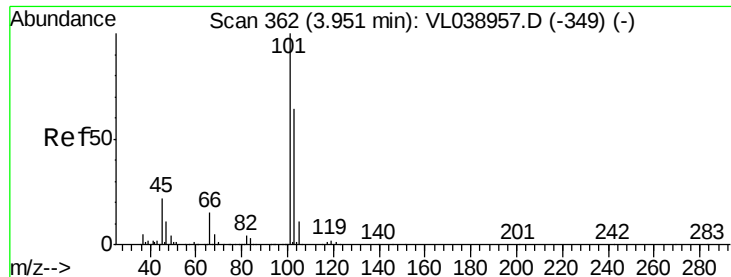
Tgt Ion: 43 Resp: 67156

Ion Ratio Lower Upper

43 100

57 0.0 40.5 60.7#



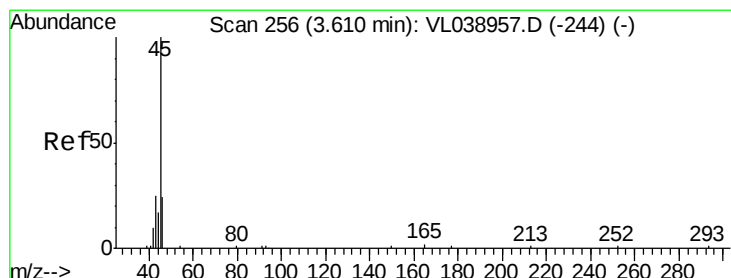
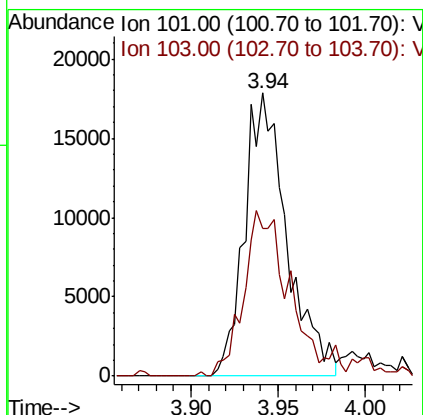
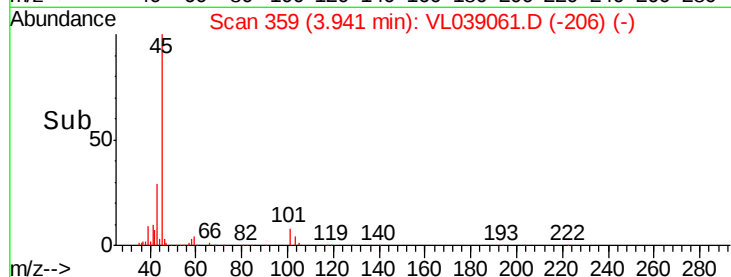
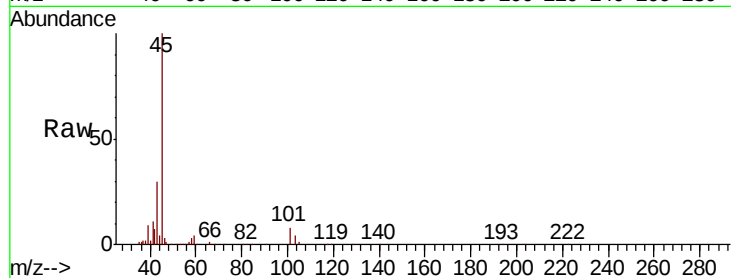


#11
 Trichlorofluoromethane
 Concen: 0.240 ppbv m
 RT: 3.94
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 SG-7
 Acq: 14 May 2022 7:16

Tot Ion:1
 Ion Rati
 101 100
 103 52.

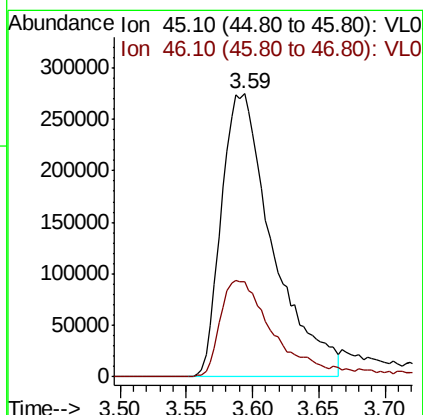
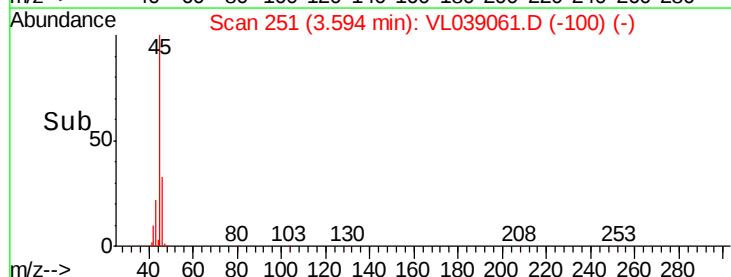
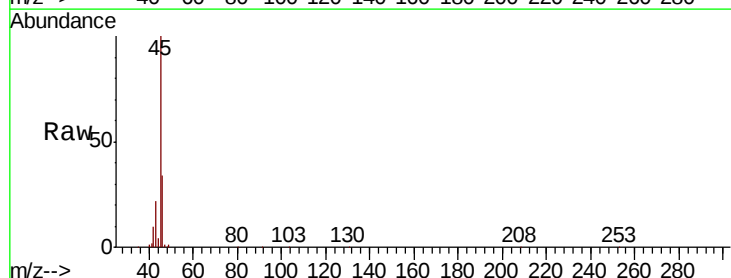
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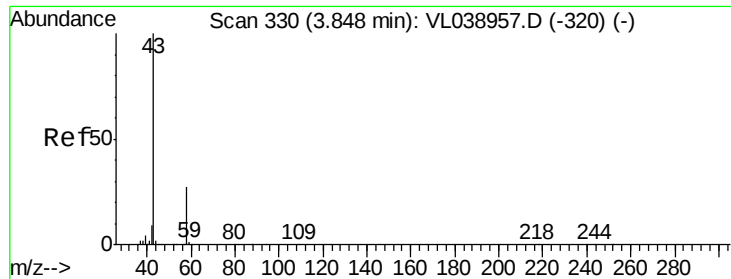
Reviewed By :Semsettin Yesilyurt 05/16/2022
 Supervised By :Mahesh Dadoda 05/17/2022



#13
 Ethanol
 Concen: 207.407 ppbv
 RT: 3.59 min Scan# 251
 Delta R.T. -0.02 min
 Lab File: VL039061.D
 Acq: 14 May 2022 7:16

Tgt Ion: 45 Resp: 743514
 Ion Ratio Lower Upper
 45 100
 46 37.8 18.0 72.2



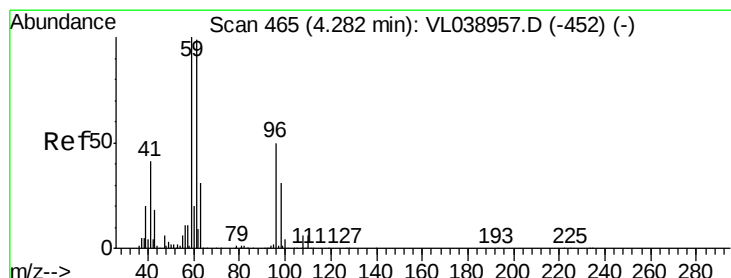
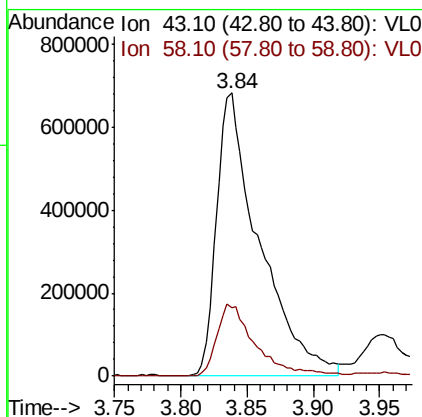
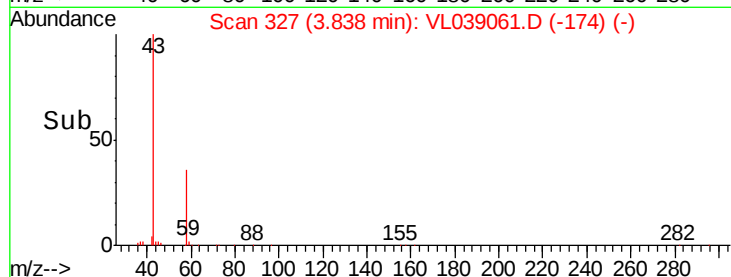
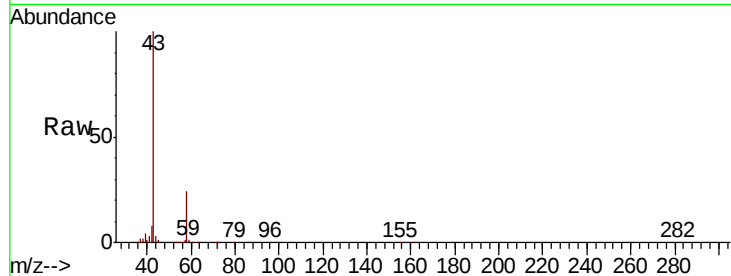


#15
Acetone
Concen: 17.255 ppbv
RT: 3.84
Instrument : MSVOA_1
Delta R.T.
Lab File: ClientSampleId :
Acq: 14 May 2022 7:16

Tot Ion:
Ion Ratio
43 100
58 23.

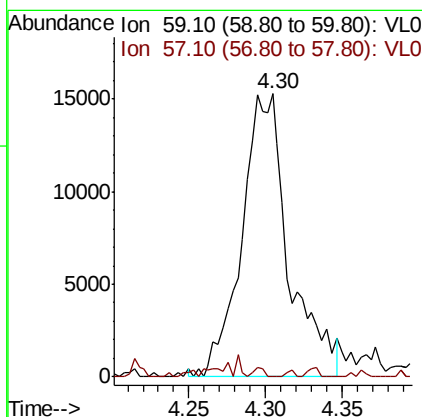
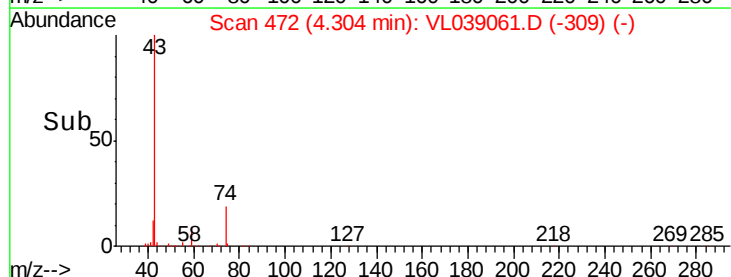
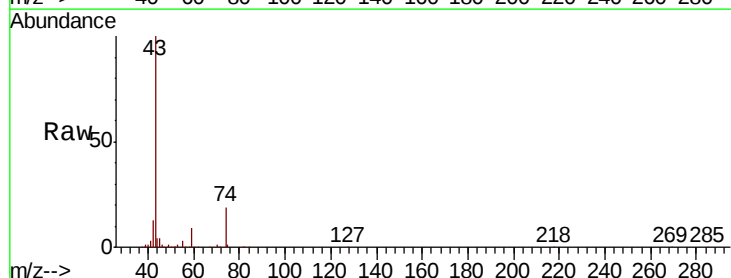
Manual Integrations
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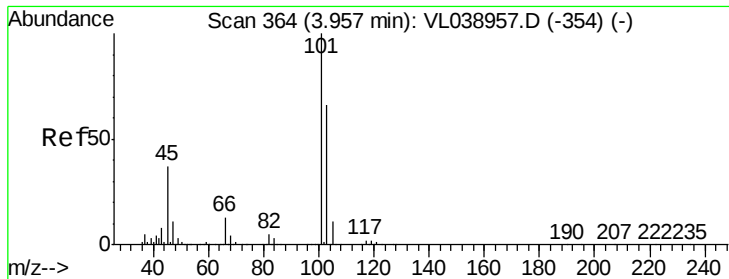
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#17
tert-Butyl alcohol
Concen: 0.479 ppbv m
RT: 4.30 min Scan# 472
Delta R.T. 0.02 min
Lab File: VL039061.D
Acq: 14 May 2022 7:16

Tgt Ion: 59 Resp: 32465
Ion Ratio Lower Upper
59 100
57 0.0 9.2 13.8#





#19

Isopropyl Alcohol

Concen: 17.755 ppbv

RT: 3.95

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 May 2022 7:16

Tot Ion:

Ion Ratio

45 100

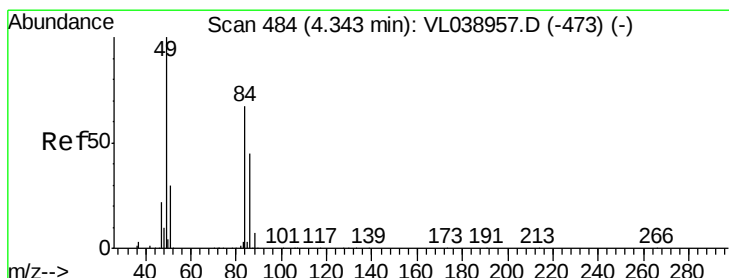
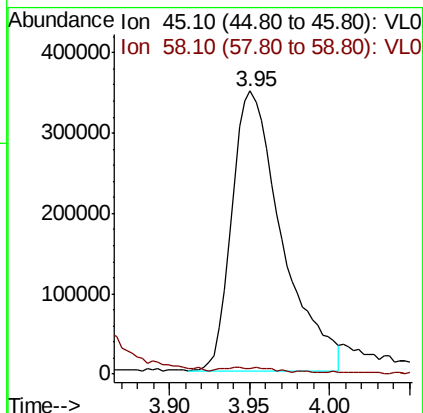
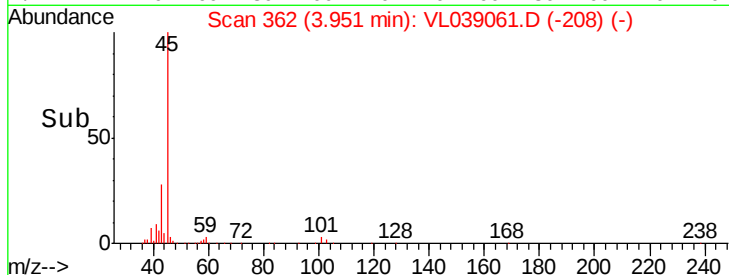
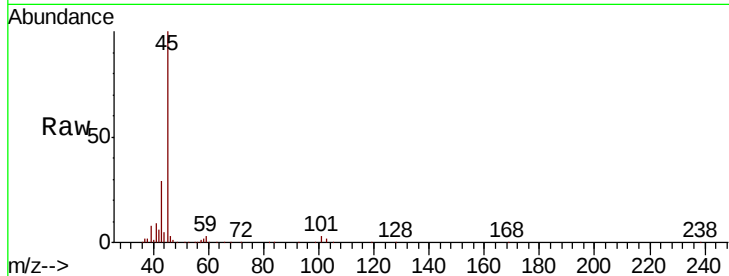
58 4.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#20

Methylene Chloride

Concen: 2.991 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL039061.D

Acq: 14 May 2022 7:16

Tgt Ion: 84 Resp: 99392

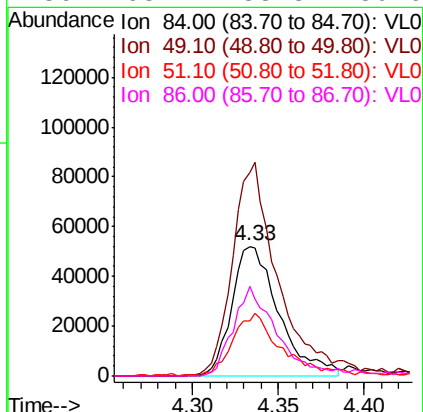
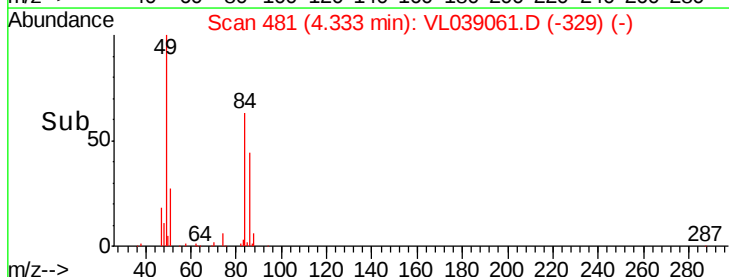
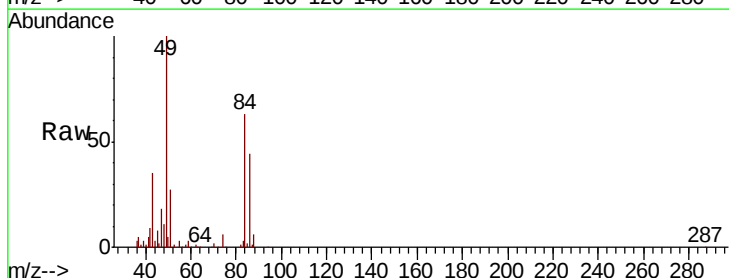
Ion Ratio Lower Upper

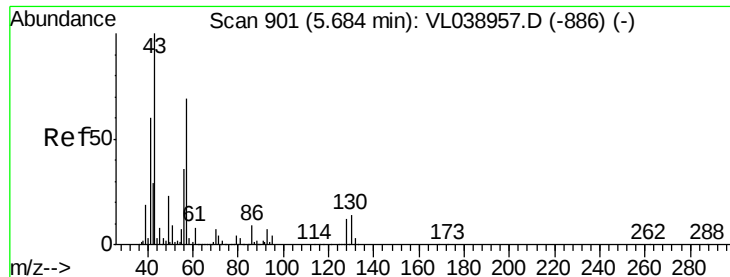
84 100

49 156.6 119.9 179.9

51 41.9 35.7 53.5

86 68.7 53.8 80.6





#26

Hexane

Concen: 1.550 ppbv

RT: 5.68

Delta R.T.

Lab File:

Acq: 14 May 2022

Instrument :

MSVOA_L

ClientSampleId :

SG-7

7.10

Tot Ion:

Ion Ratio

57 100

41 96.

43 106.

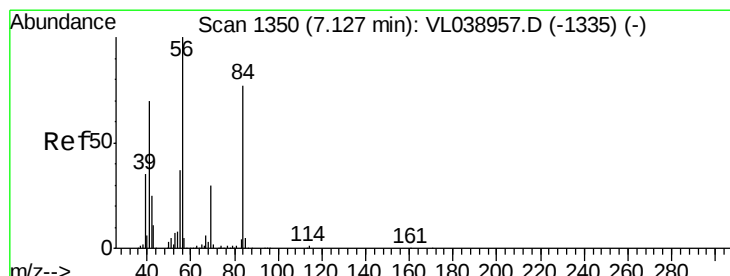
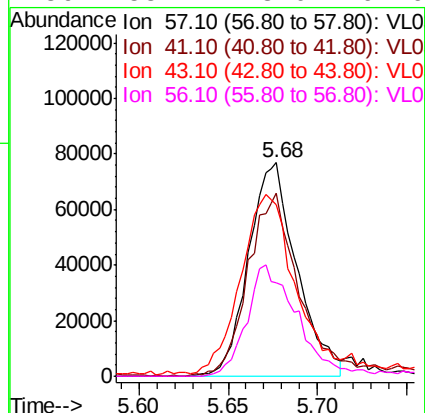
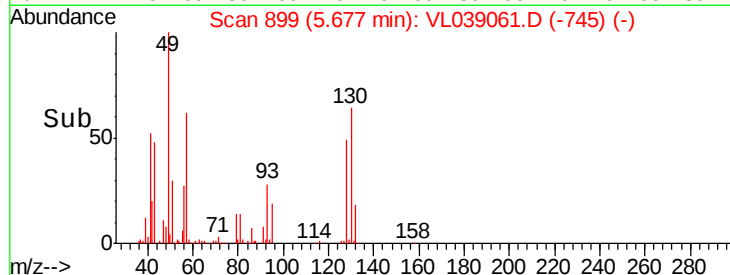
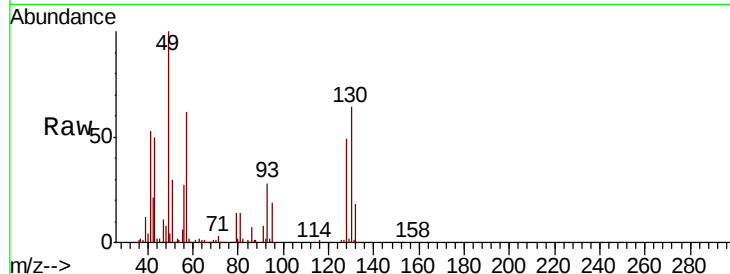
56 55.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#30

Cyclohexane

Concen: 0.204 ppbv m

RT: 7.11 min Scan# 1345

Delta R.T. -0.02 min

Lab File: VL039061.D

Acq: 14 May 2022 7:16

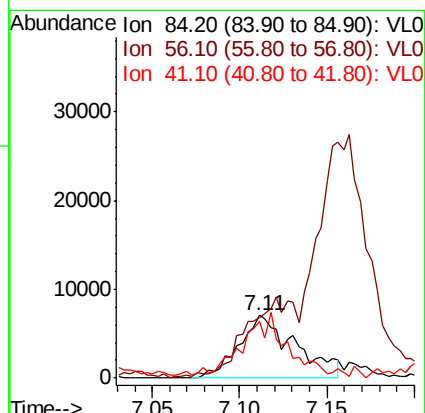
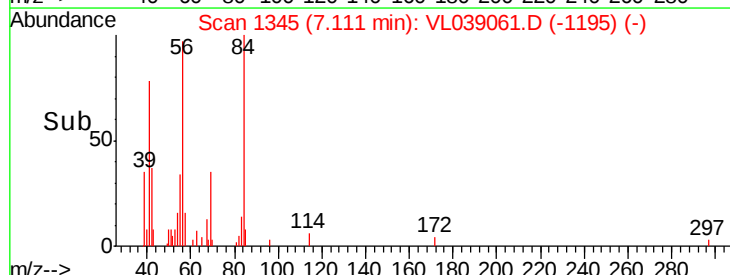
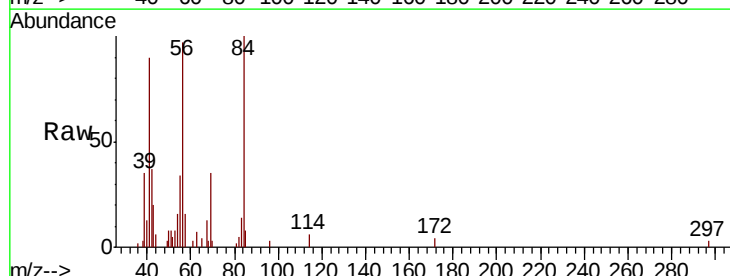
Tgt Ion: 84 Resp: 15989

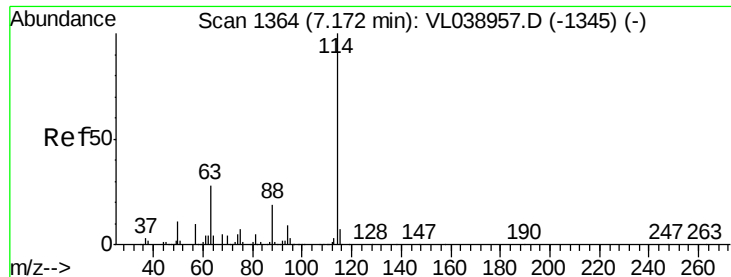
Ion Ratio Lower Upper

84 100

56 0.0 115.3 172.9#

41 89.6 72.0 108.0



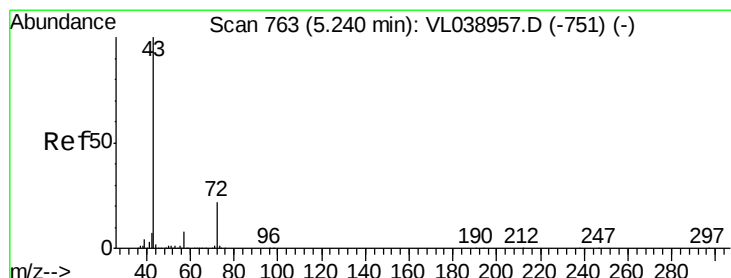
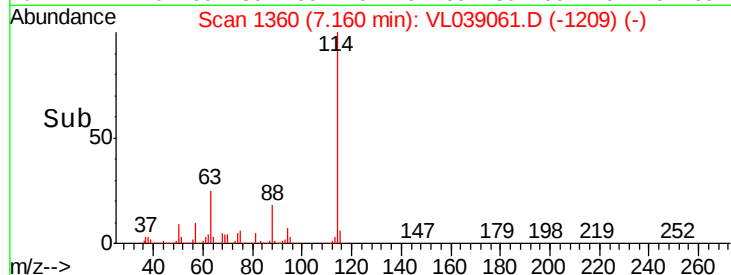
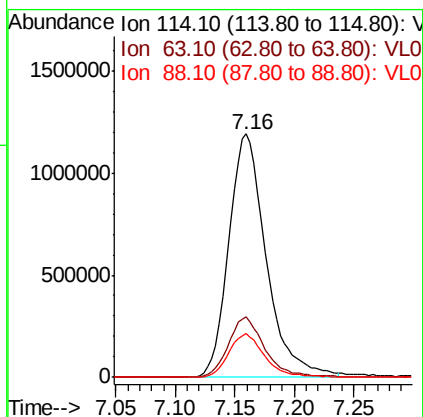
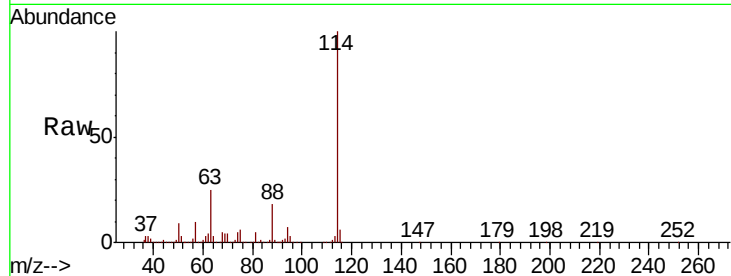


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId : SG-7
 Acq: 14 May 2022 7:16

Tot Ion: 1
 Ion Ratio
 114 100
 63 24.
 88 17.

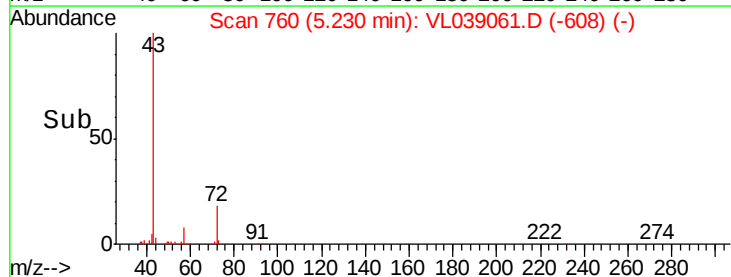
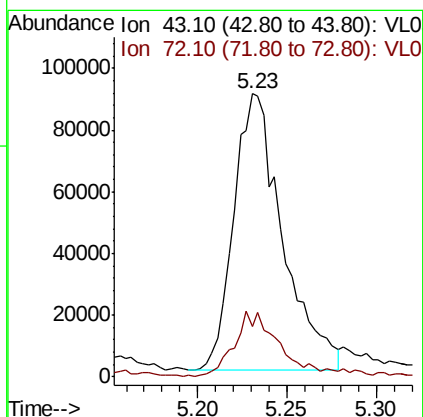
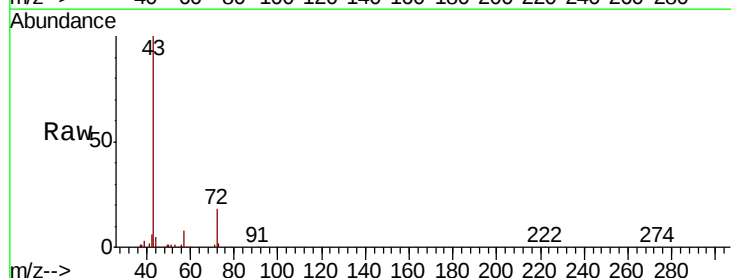
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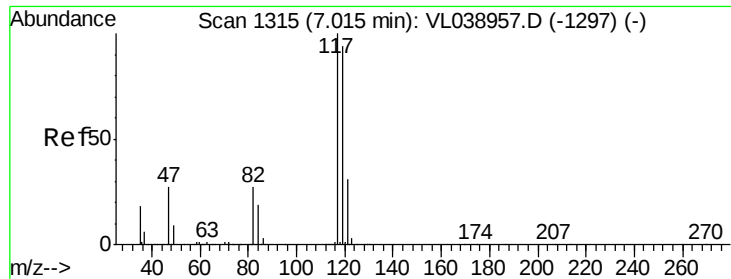
Reviewed By : Semsettin Yesilyurt 05/16/2022
 Supervised By : Mahesh Dadoda 05/17/2022



#34
 2-Butanone
 Concen: 1.297 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.01 min
 Lab File: VL039061.D
 Acq: 14 May 2022 7:16

Tgt Ion: 43 Resp: 171727
 Ion Ratio Lower Upper
 43 100
 72 24.0 17.8 26.6





#35

Carbon Tetrachloride

Concen: 0.052 ppbv m

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

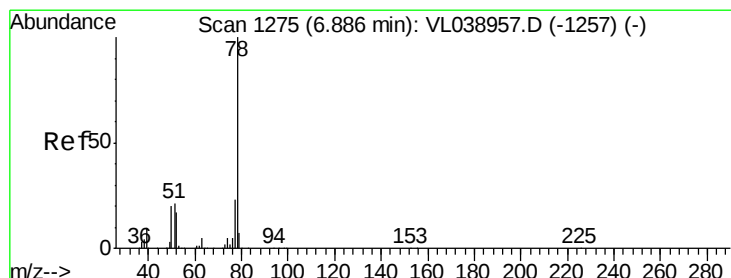
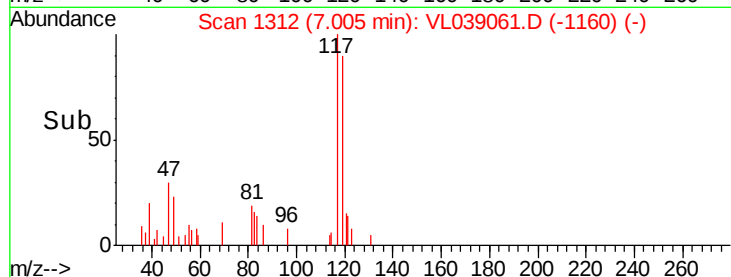
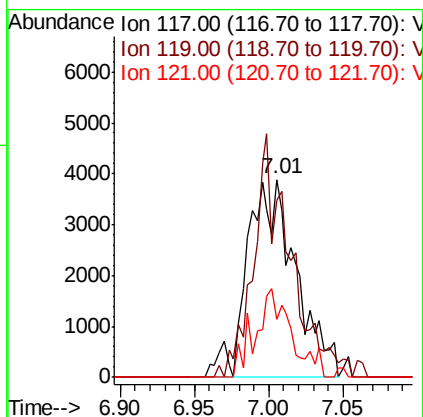
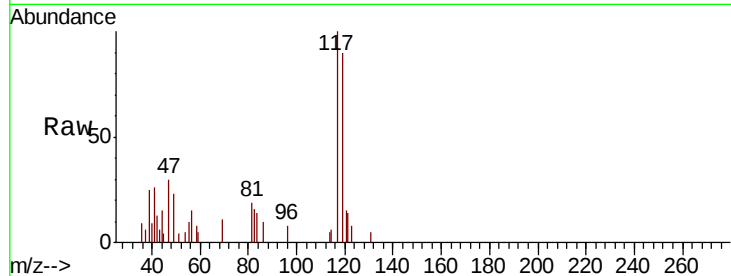
Lab File: ClientSampleId:

Acq: 14 May 2022 7:16

Tot Ion:1
Ion Rati
117 100
119 89.
121 15.

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Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#36

Benzene

Concen: 0.513 ppbv

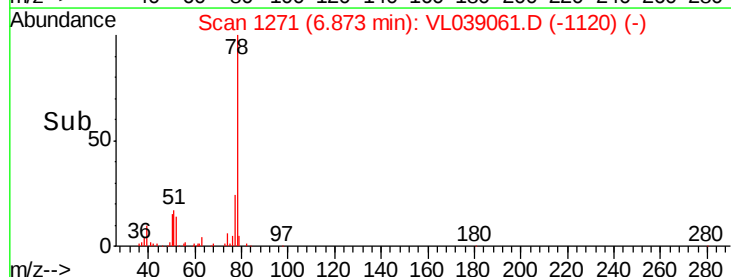
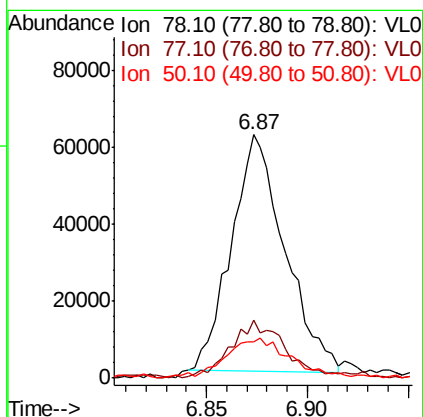
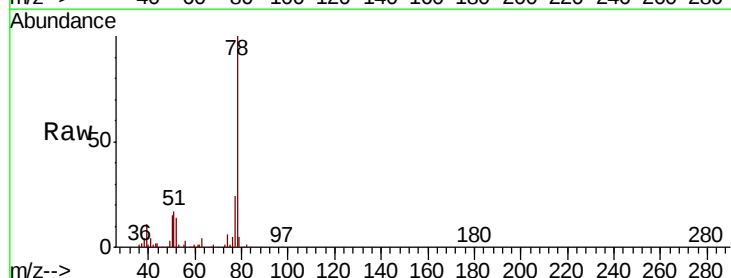
RT: 6.87 min Scan# 1271

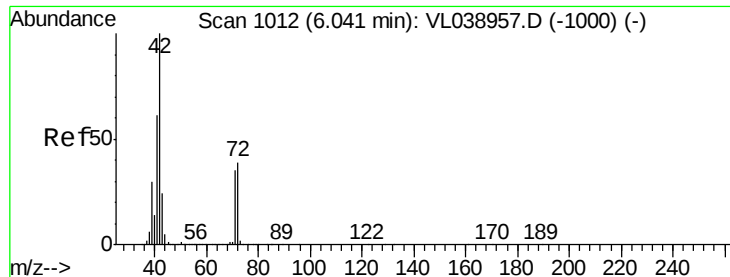
Delta R.T. -0.01 min

Lab File: VL039061.D

Acq: 14 May 2022 7:16

Tgt Ion: 78 Resp: 114042
Ion Ratio Lower Upper
78 100
77 23.9 18.6 28.0
50 13.1 15.6 23.4#



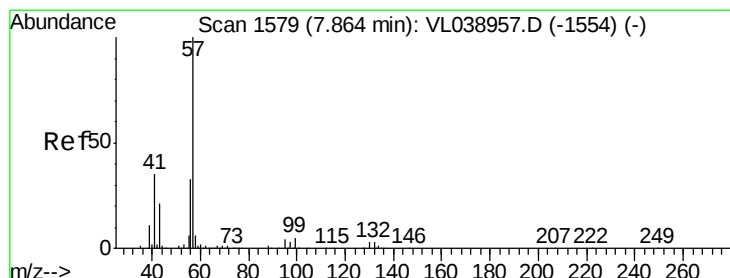
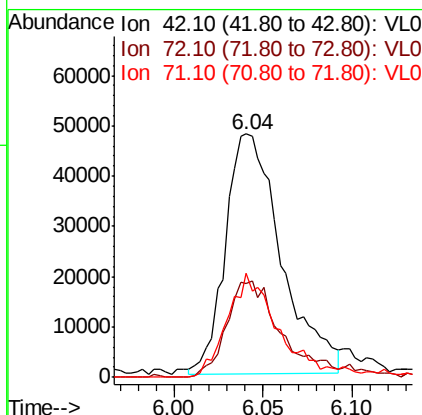
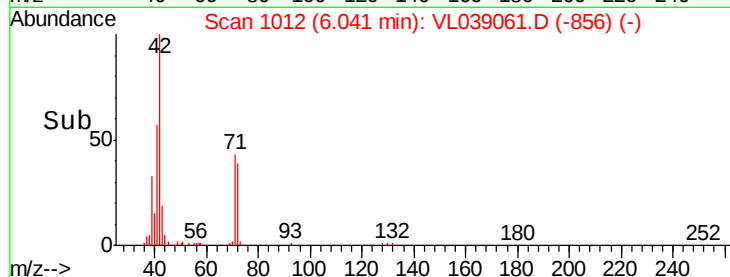
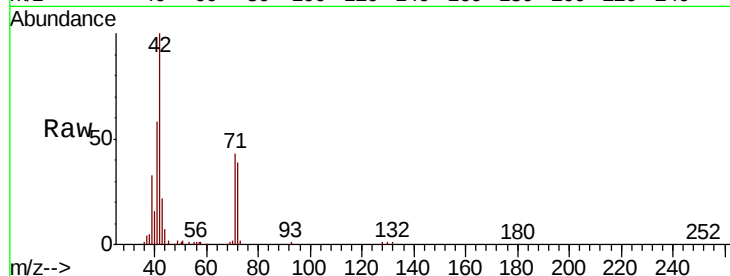


#41
Tetrahydrofuran
Concen: 1.173 ppbv
RT: 6.04
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SG-7
Acq: 14 May 2022 7:16

Tot Ion:
Ion Ratio
42 100
72 41.
71 41.

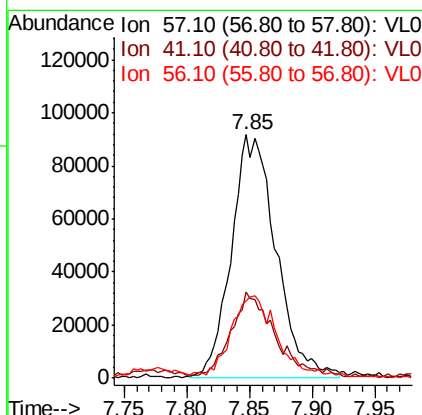
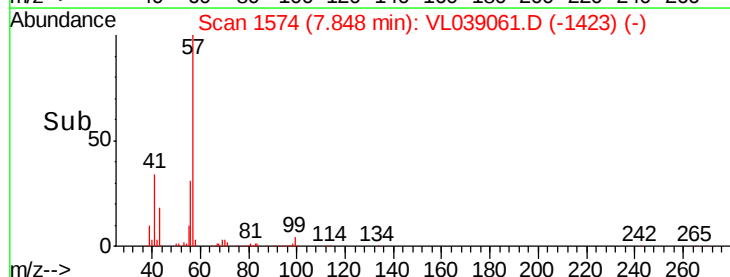
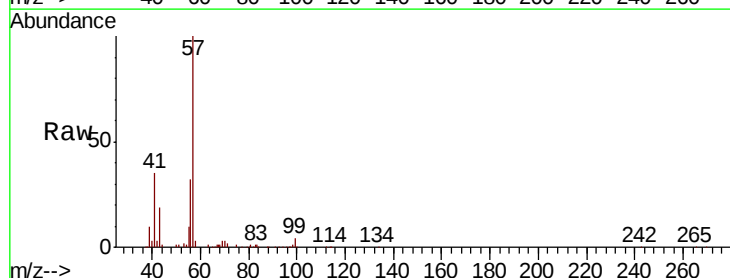
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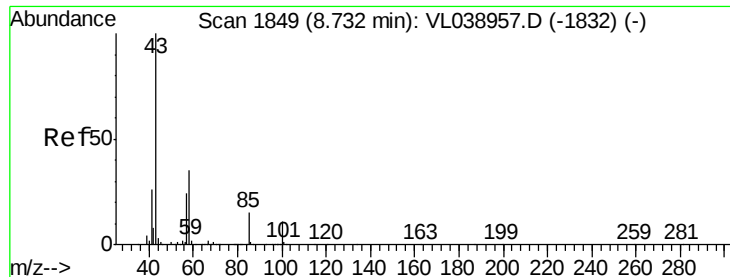
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#44
2,2,4-Trimethylpentane
Concen: 0.584 ppbv m
RT: 7.85 min Scan# 1574
Delta R.T. -0.02 min
Lab File: VL039061.D
Acq: 14 May 2022 7:16

Tgt Ion: 57 Resp: 227755
Ion Ratio Lower Upper
57 100
41 35.3 26.3 39.5
56 0.0 24.6 37.0#



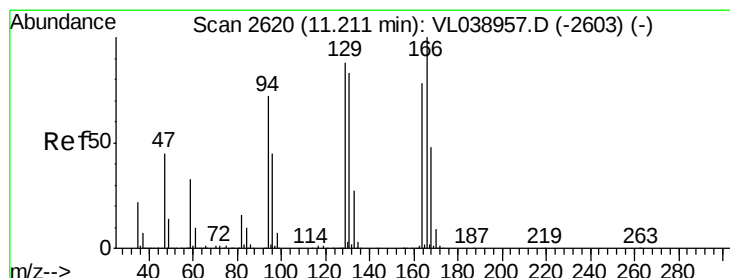
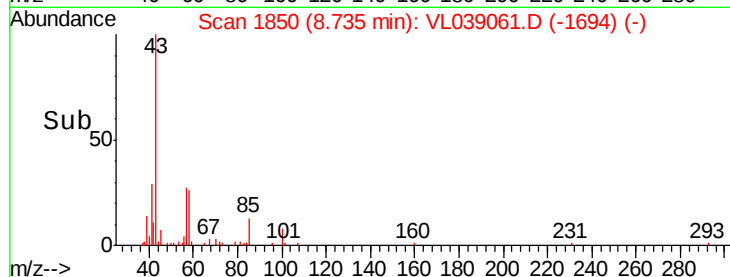
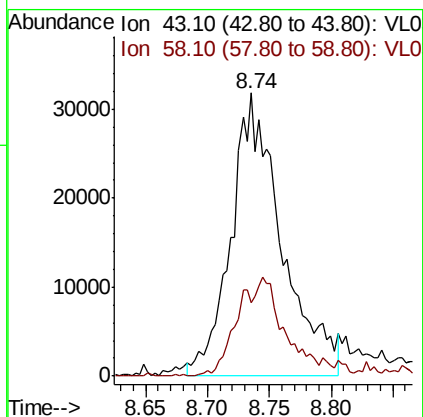
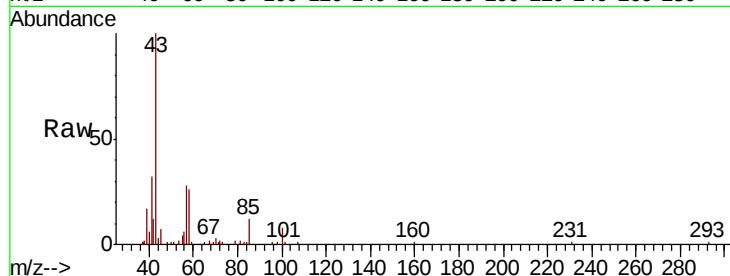


#50
4-Methyl-2-Pentanone
Concen: 0.390 ppbv m
RT: 8.74
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SG-7
Acq: 14 May 2022 7:16

Tot Ion:
Ion Ratio
43 100
58 0.

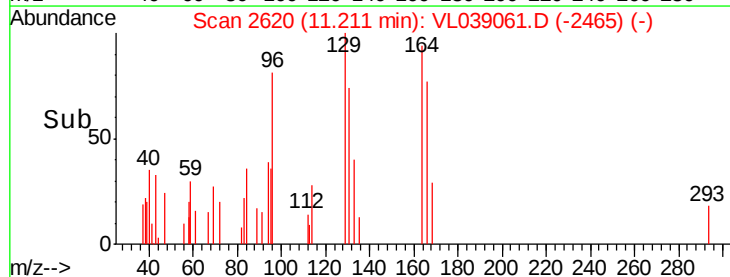
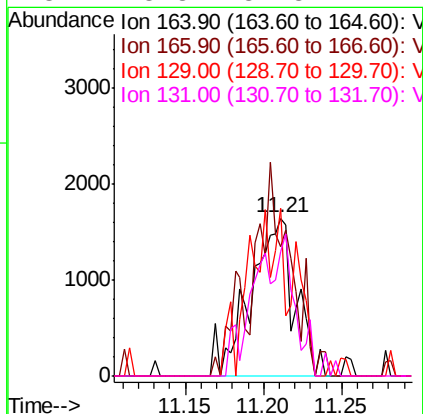
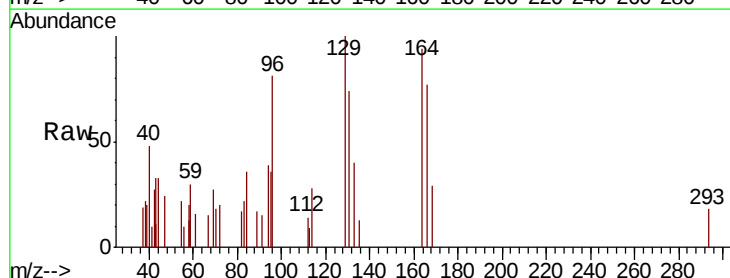
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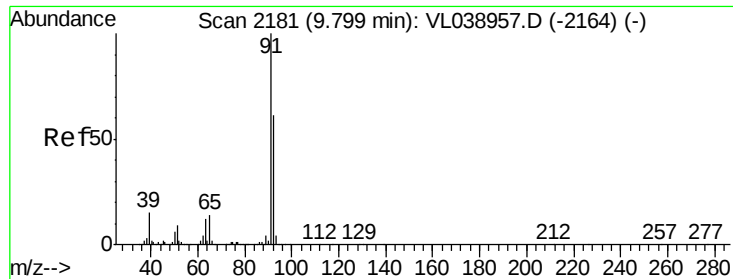
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#52
Tetrachloroethene
Concen: 0.041 ppbv m
RT: 11.21 min Scan# 2620
Delta R.T. -0.00 min
Lab File: VL039061.D
Acq: 14 May 2022 7:16

Tgt Ion:164 Resp: 3236
Ion Ratio Lower Upper
164 100
166 81.7 102.5 153.7#
129 106.5 90.1 135.1
131 78.3 84.8 127.2#





#53

Toluene

Concen: 4.944 ppbv

RT: 9.78 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 May 2022 7:16

Tot Ion:

Ion Ratio

91 100

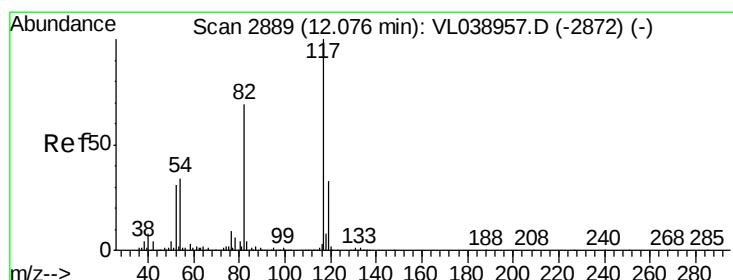
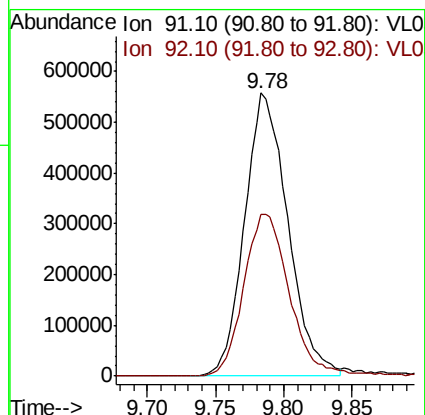
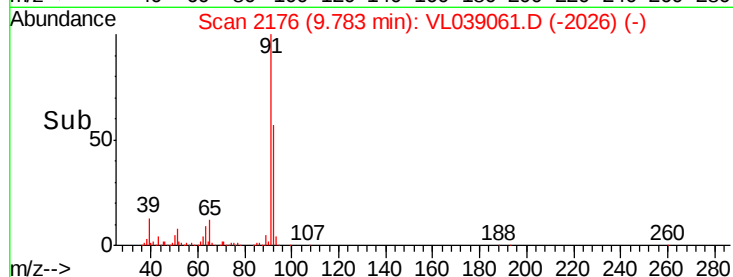
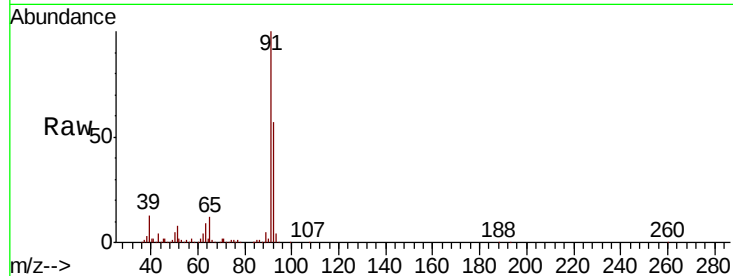
92 60.

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APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.01 min

Lab File: VL039061.D

Acq: 14 May 2022 7:16

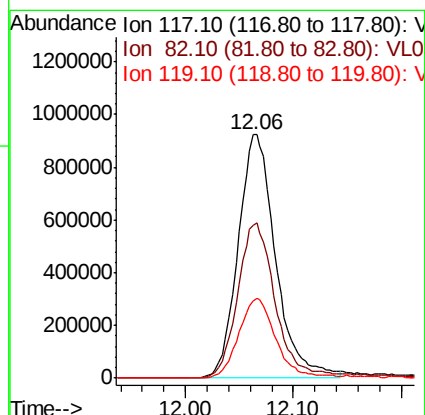
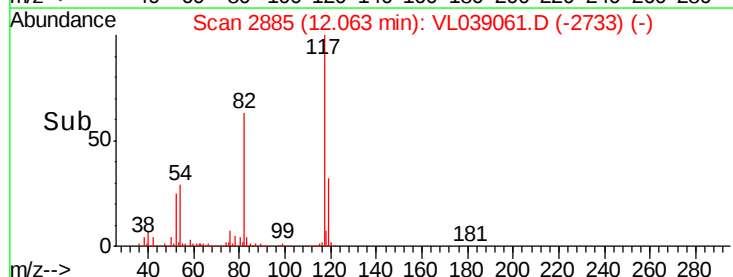
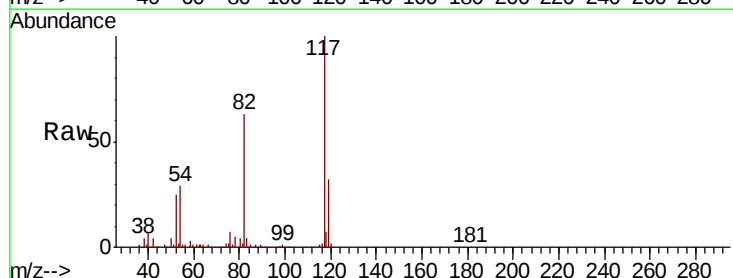
Tgt Ion:117 Resp: 2230154

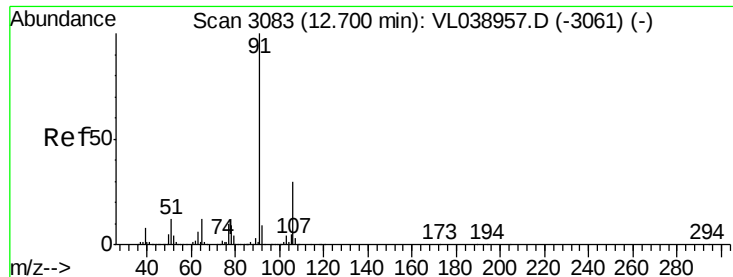
Ion Ratio Lower Upper

117 100

82 66.8 57.0 85.6

119 33.6 27.2 40.8



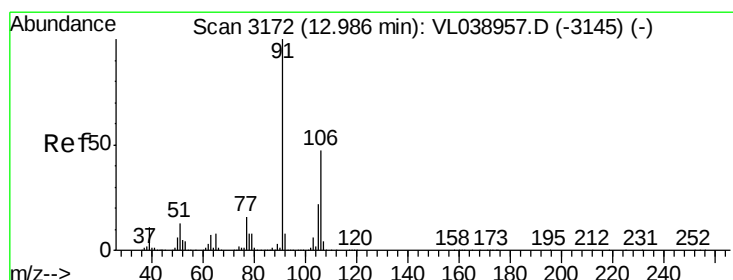
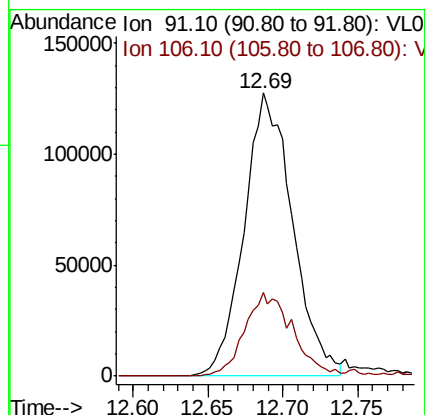
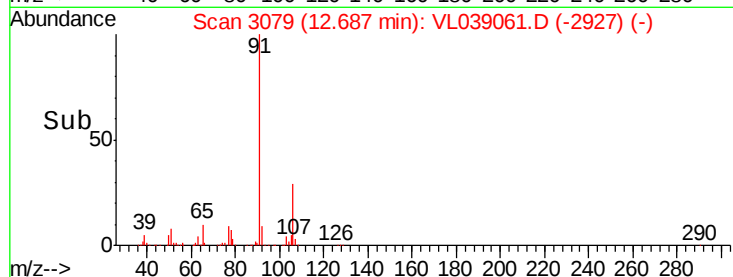
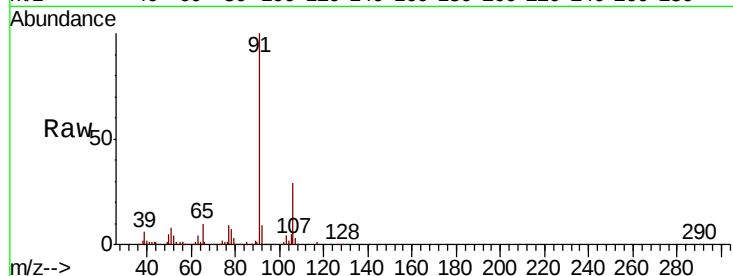


#58
Ethyl Benzene
Concen: 0.890 ppbv
RT: 12.69 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SG-7
Acq: 14 May 2022 7:16

Tot Ion:
Ion Ratio
91 100
106 29.

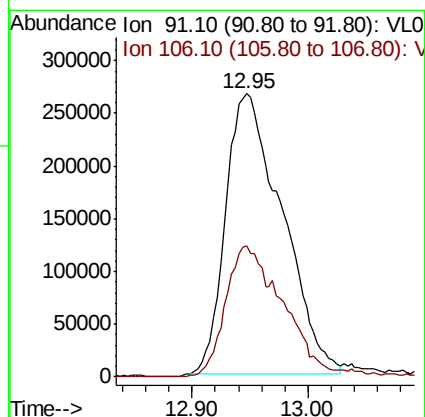
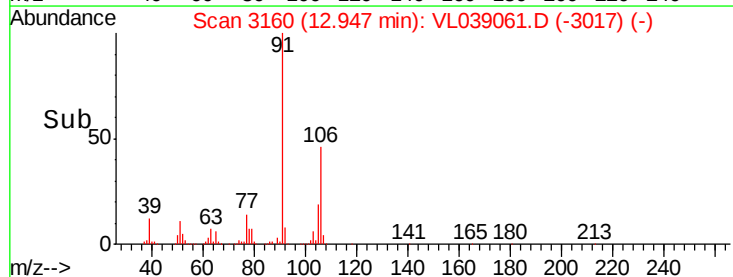
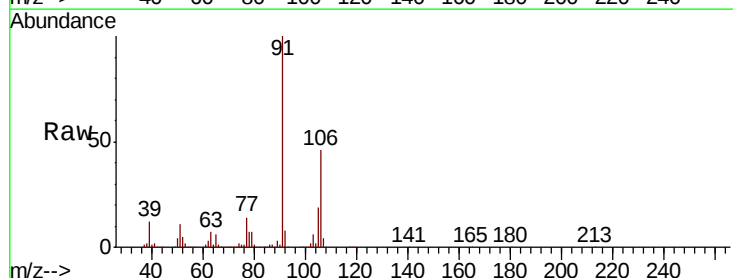
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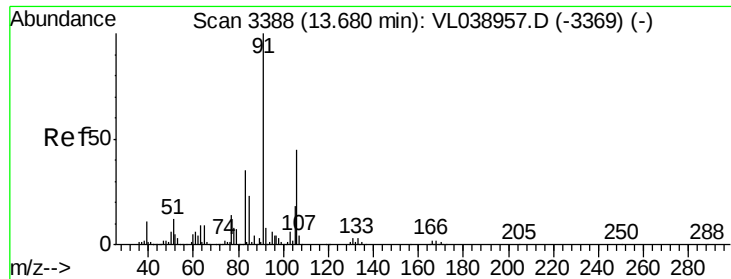
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#59
m/p-Xylene
Concen: 3.287 ppbv
RT: 12.95 min Scan# 3160
Delta R.T. -0.04 min
Lab File: VL039061.D
Acq: 14 May 2022 7:16

Tgt Ion: 91 Resp: 900563
Ion Ratio Lower Upper
91 100
106 48.1 34.6 52.0



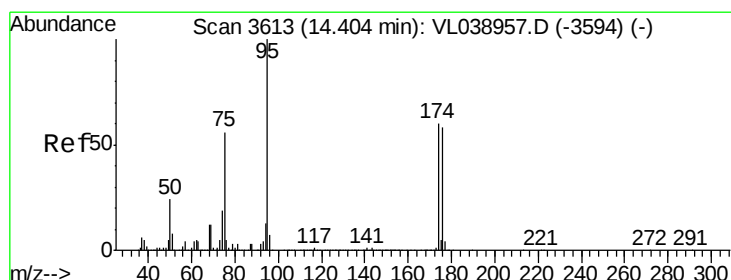
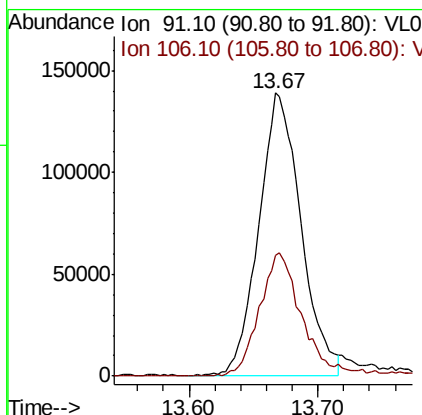
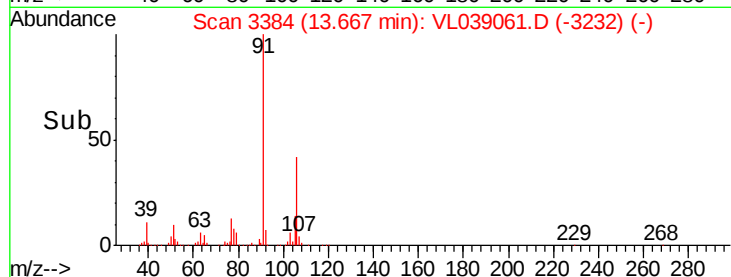
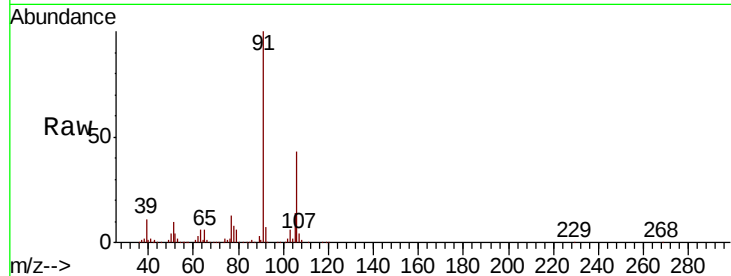


#60
o-Xylene
Concen: 1.231 ppbv
RT: 13.67
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
SG-7
Acq: 14 May 2022 7:16

Tot Ion:
Ion Ratio
91 100
106 45.

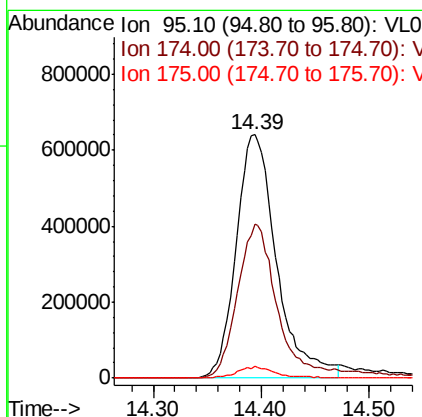
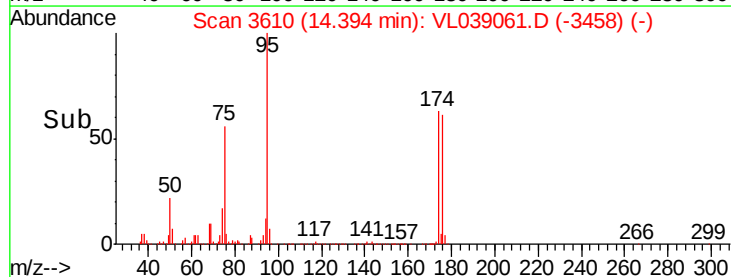
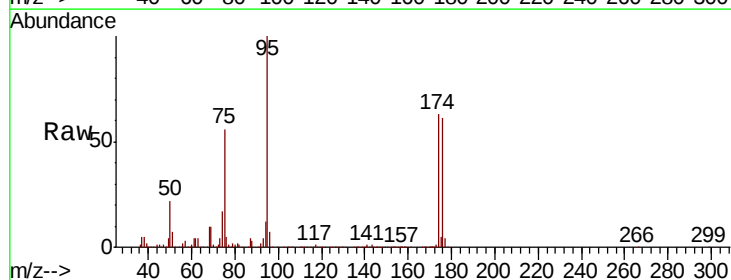
Manual Integrations
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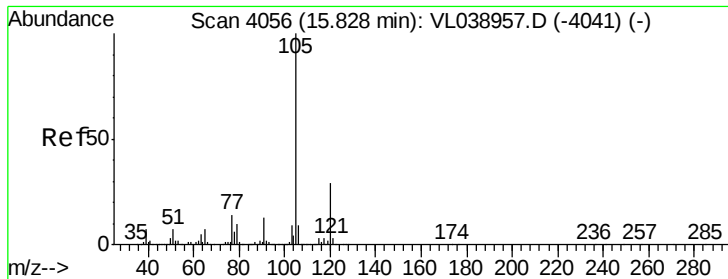
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 9.482 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.01 min
Lab File: VL039061.D
Acq: 14 May 2022 7:16

Tgt Ion: 95 Resp: 1674763
Ion Ratio Lower Upper
95 100
174 66.1 50.8 76.2
175 4.4 3.8 5.6



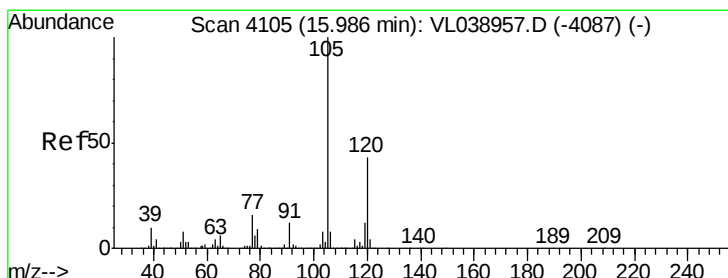
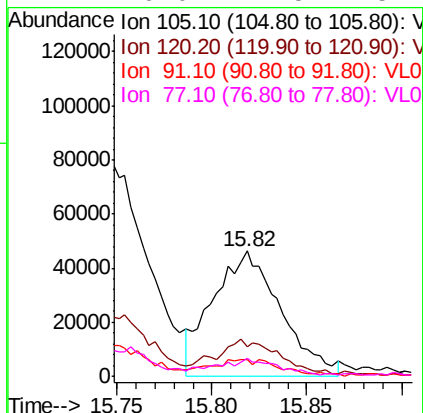
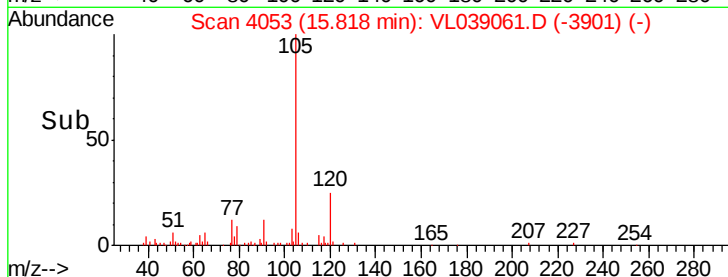
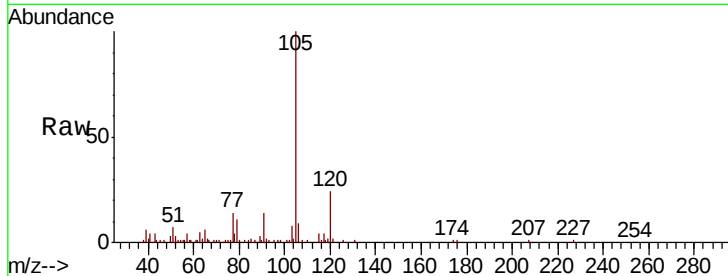


#72
 4-Ethyltoluene
 Concen: 0.394 ppbv m
 RT: 15.82
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 14 May 2022 7:10

Tot Ion:1
 Ion Ratio
 105 100
 120 0.
 91 0.
 77 0.0 12.5 18.7#

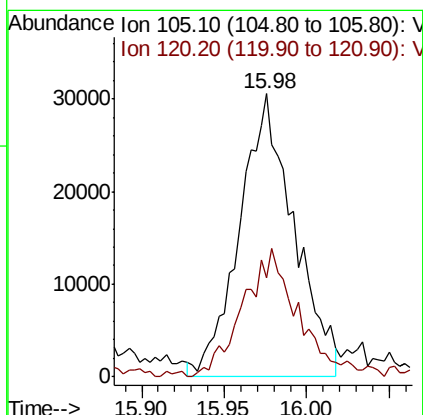
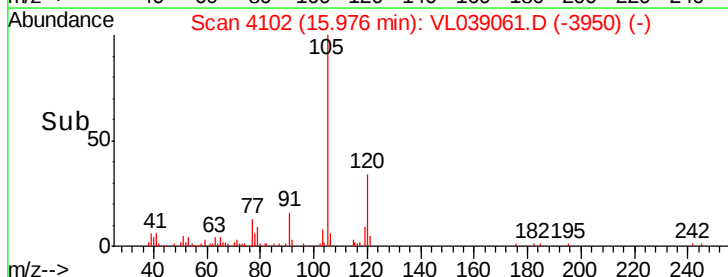
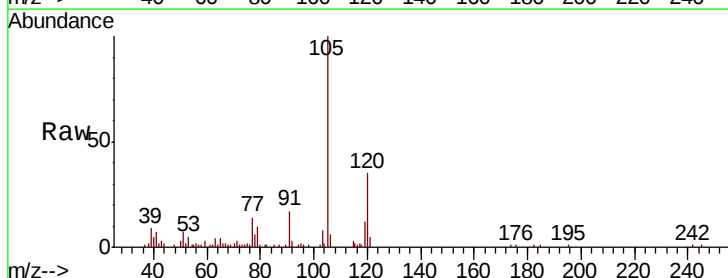
Manual Integrations
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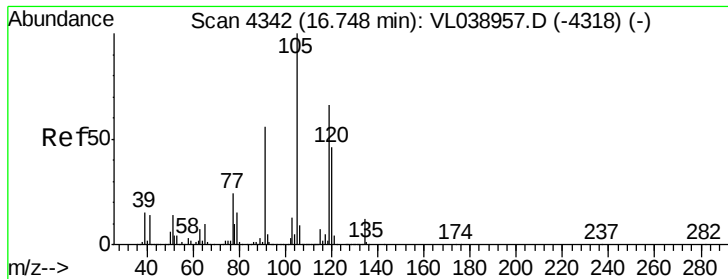
Reviewed By :Semsettin Yesilyurt 05/16/2022
 Supervised By :Mahesh Dadoda 05/17/2022



#73
 1,3,5-Trimethylbenzene
 Concen: 0.265 ppbv m
 RT: 15.98 min Scan# 4102
 Delta R.T. -0.01 min
 Lab File: VL039061.D
 Acq: 14 May 2022 7:16

Tgt Ion:105 Resp: 70118
 Ion Ratio Lower Upper
 105 100
 120 35.2 34.4 51.6





#74

1,2,4-Trimethylbenzene

Concen: 1.023 ppbv m

RT: 16.73

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 May 2022 7:16

Tot Ion:1

Ion Ratio

105 100

120 40.

91 9.

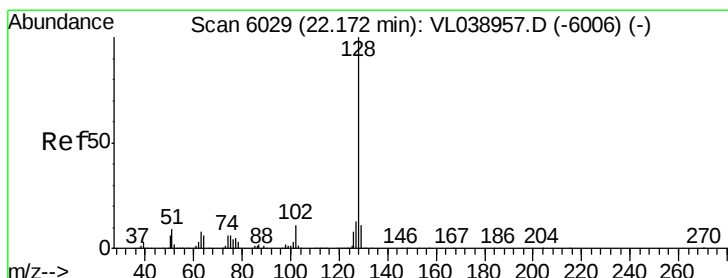
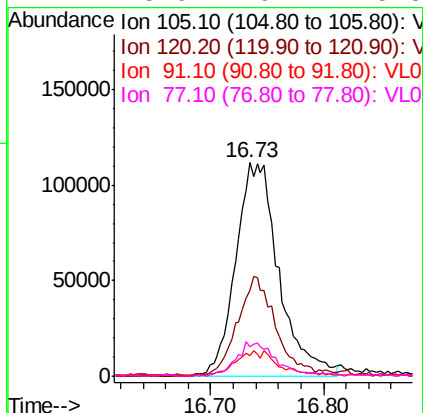
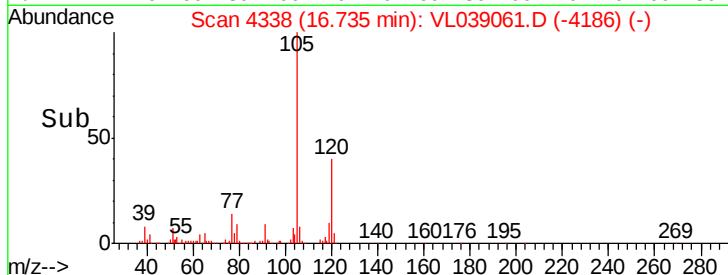
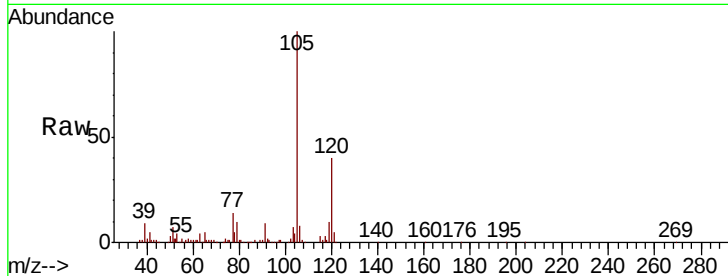
77 13.9 19.2 28.8#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#79

Naphthalene

Concen: 0.129 ppbv m

RT: 22.17 min Scan# 6027

Delta R.T. -0.01 min

Lab File: VL039061.D

Acq: 14 May 2022 7:16

Tgt Ion:128 Resp: 30365

Ion Ratio Lower Upper

128 100

127 9.1 10.2 15.2#

129 6.9 8.9 13.3#

