

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL071222\
 Data File : VL039445.D
 Acq On : 12 Jul 2022 12:26
 Operator : SY/AP
 Sample : N3614-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-9D

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/13/2022
 Supervised By : Mahesh Dadoda 07/13/2022

Quant Time: Jul 20 02:26:14 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Wed Jul 06 02:15:38 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1225108	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	3425354	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.10	117	3012512	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2418813	10.82	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.20%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.06	85	53827	0.305	ppbv	98
3) Chlorodifluoromethane	2.98	51	183374	1.180	ppbv #	70
4) Chloromethane	3.15	50	56646m	0.666	ppbv	
9) Propene	3.03	41	103799m	1.479	ppbv	
10) Heptane	8.13	43	33227m	0.202	ppbv	
11) Trichlorofluoromethane	3.97	101	46572	0.237	ppbv	97
13) Ethanol	3.63	45	18539511	4552.504	ppbv	79
15) Acetone	3.86	43	3030362	20.908	ppbv	93
17) tert-Butyl alcohol	4.32	59	65979m	0.536	ppbv	
19) Isopropyl Alcohol	3.99	45	1091757	14.122	ppbv	99
20) Methylene Chloride	4.36	84	169072	2.927	ppbv	98
25) Ethyl Acetate	5.69	43	2414523	8.124	ppbv	98
29) Chloroform	5.77	83	379687	1.823	ppbv	99
30) Cyclohexane	7.15	84	16444m	0.151	ppbv	
34) 2-Butanone	5.26	43	170114	0.987	ppbv	97
35) Carbon Tetrachloride	7.03	117	20015m	0.095	ppbv	
36) Benzene	6.91	78	73236m	0.276	ppbv	
38) Trichloroethene	7.86	130	5994m	0.042	ppbv	
44) 2,2,4-Trimethylpentane	7.89	57	76932m	0.171	ppbv	
52) Tetrachloroethene	11.24	164	4679m	0.044	ppbv	
53) Toluene	9.82	91	167976	0.549	ppbv	98
58) Ethyl Benzene	12.73	91	59260	0.152	ppbv	100
59) m/p-Xylene	12.98	91	154559m	0.451	ppbv	
60) o-Xylene	13.70	91	63503m	0.196	ppbv	
61) Styrene	13.54	104	18876m	0.107	ppbv	
69) p-Isopropyltoluene	17.67	119	107526	0.206	ppbv	92
74) 1,2,4-Trimethylbenzene	16.78	105	54250m	0.140	ppbv	
79) Naphthalene	22.22	128	57848m	0.217	ppbv	
80) Naphthalene,2-methyl-	24.98	142	11610	0.128	ppbv	94

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

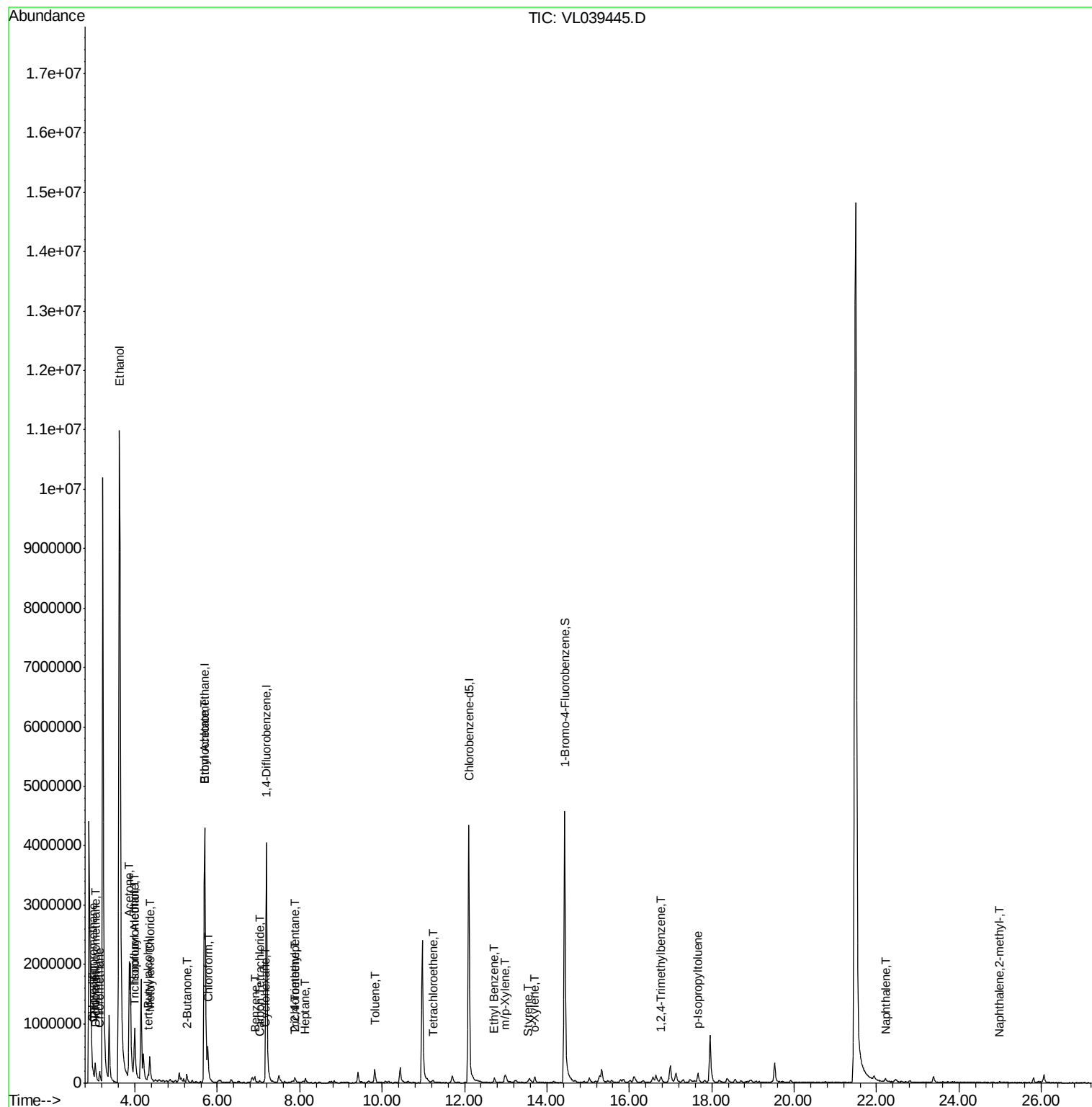
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL071222\
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ALS Vial : 1 Sample Multiplier: 1

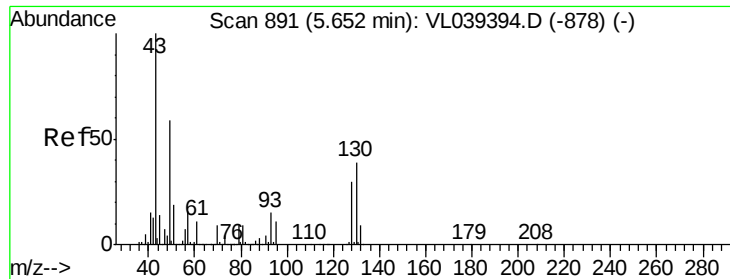
Instrument :
MSVOA_L
ClientSampleId :
IA-9D

Manual Integrations
APPROVED

Quant Time: Jul 20 02:26:14 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Wed Jul 06 02:15:38 2022
Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: IA-9D

Acq: 12 Jul 2022 12:20

Tot Ion:

Ion Ratio

49 100

128 54.

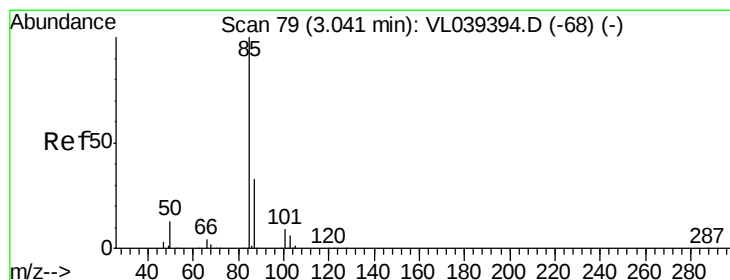
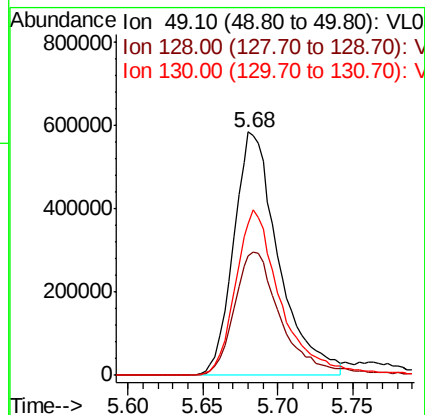
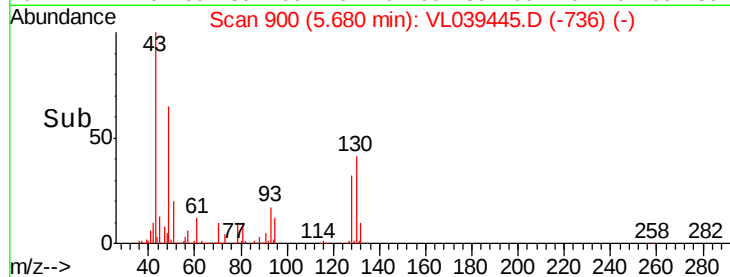
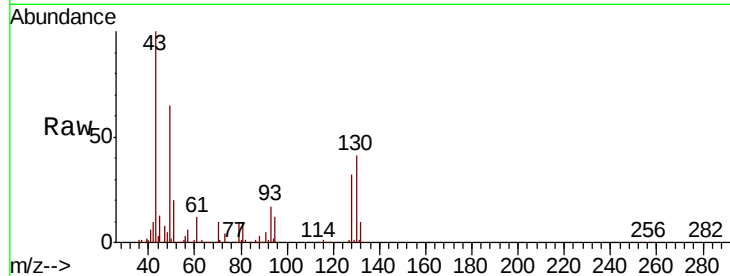
130 70.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#2

Dichlorodifluoromethane

Concen: 0.305 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL039445.D

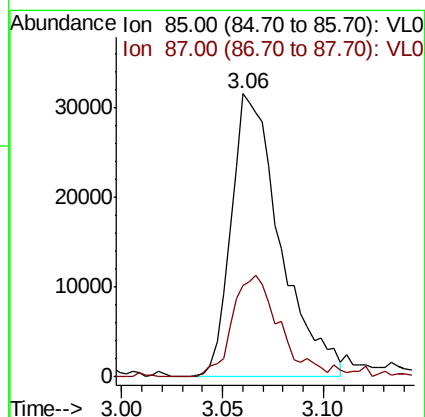
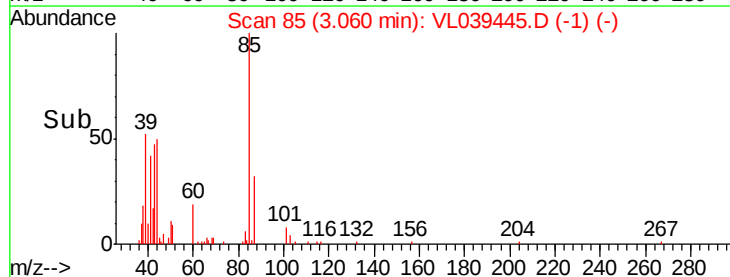
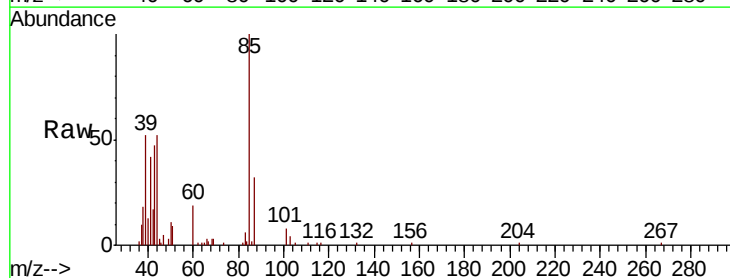
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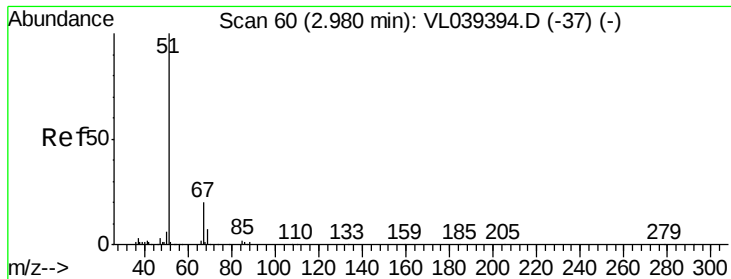
Tgt Ion: 85 Resp: 53827

Ion Ratio Lower Upper

85 100

87 32.2 26.7 40.1





#3

Chlorodifluoromethane

Concen: 1.180 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-9D

Acq: 12 Jul 2022 12:28

Tot Ion:

Ion Ratio

51 100

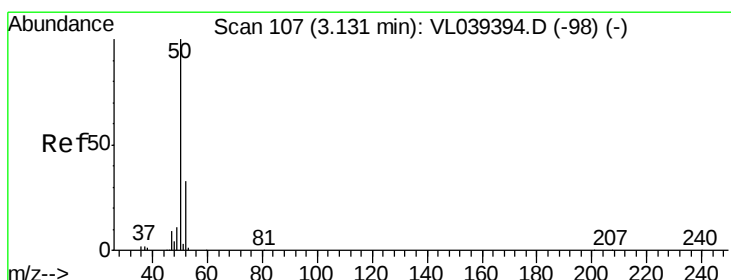
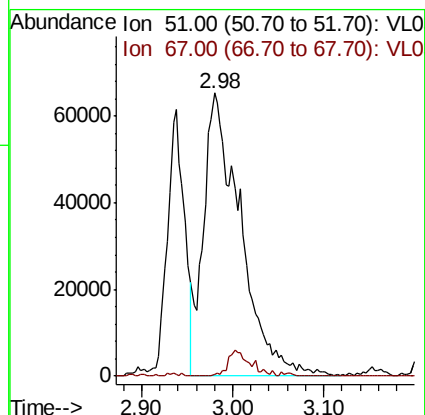
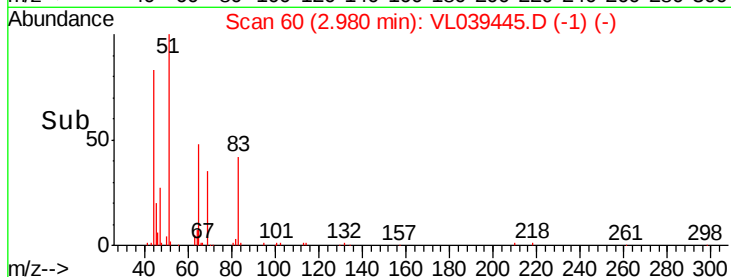
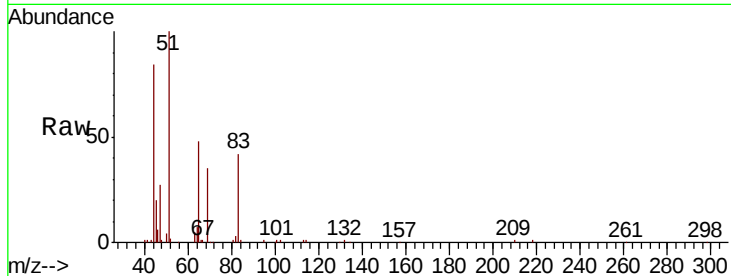
67 5.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#4

Chloromethane

Concen: 0.666 ppbv m

RT: 3.15 min Scan# 114

Delta R.T. 0.02 min

Lab File: VL039445.D

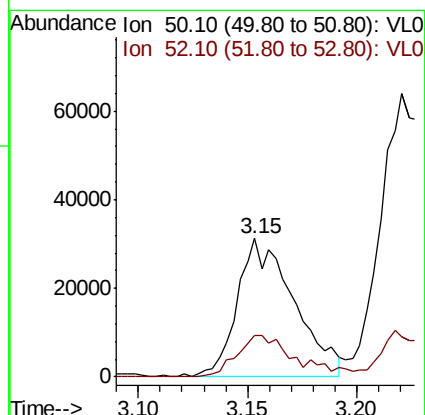
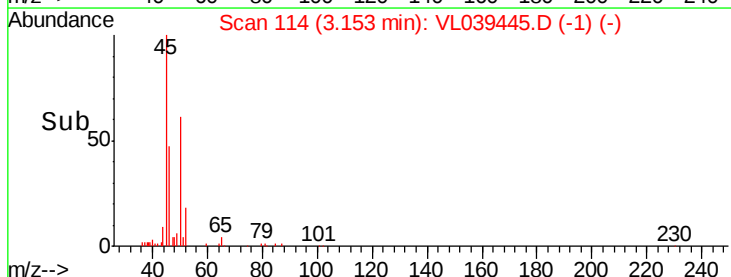
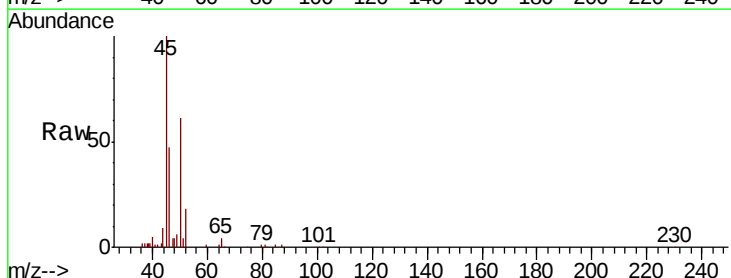
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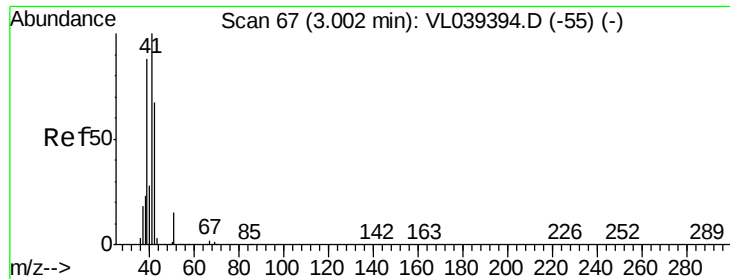
Tgt Ion: 50 Resp: 56646

Ion Ratio Lower Upper

50 100

52 29.5 26.5 39.7





#9

Propene

Concen: 1.479 ppbv m

RT: 3.03 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Jul 2022 12:26

Tot Ion:

Ion Ratio

41 100

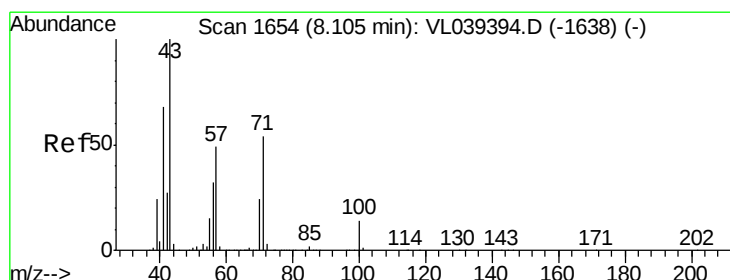
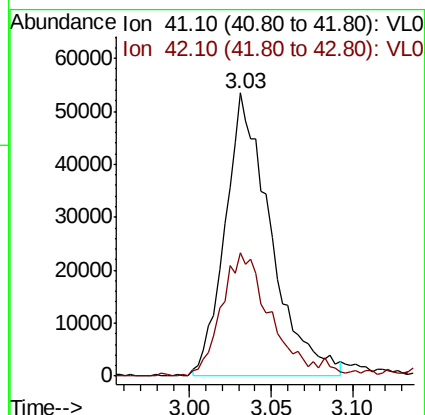
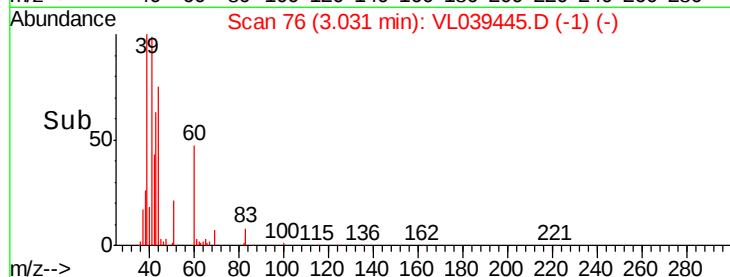
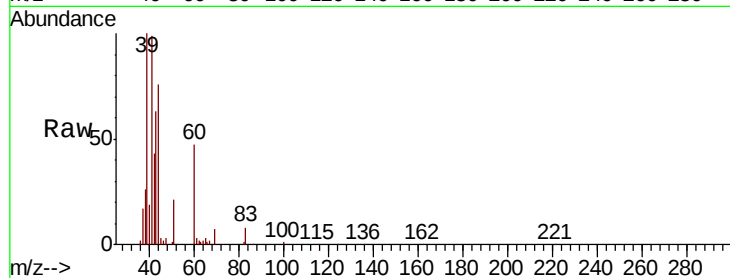
42 2622

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#10

Heptane

Concen: 0.202 ppbv m

RT: 8.13 min Scan# 1663

Delta R.T. 0.03 min

Lab File: VL039445.D

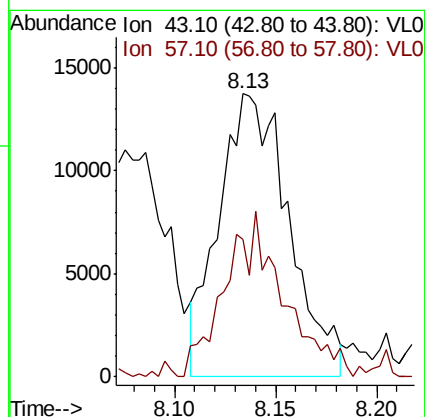
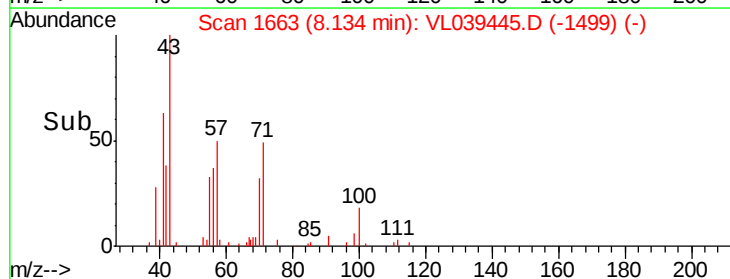
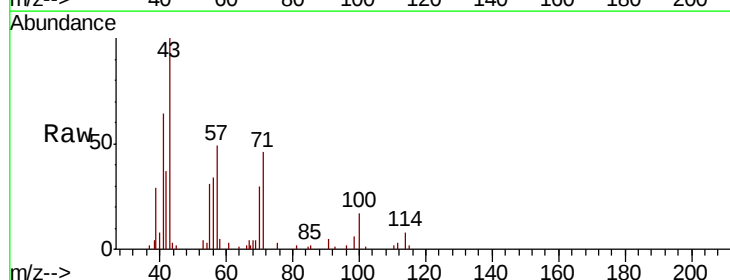
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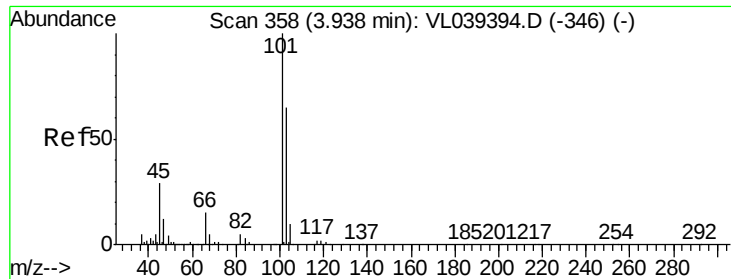
Tgt Ion: 43 Resp: 33227

Ion Ratio Lower Upper

43 100

57 0.0 40.5 60.7#



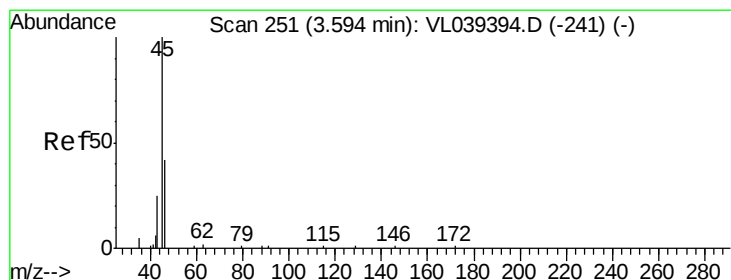
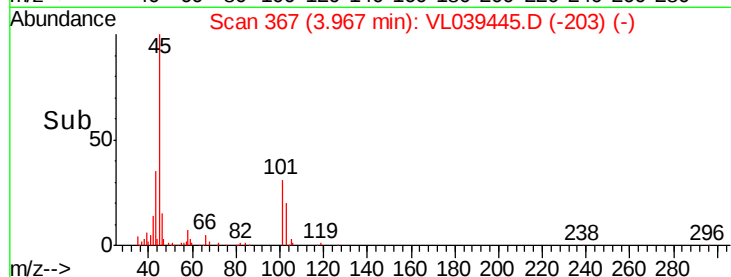
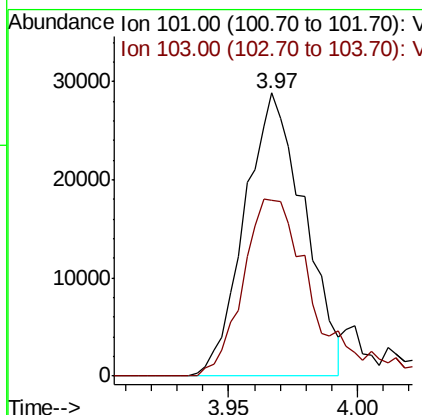
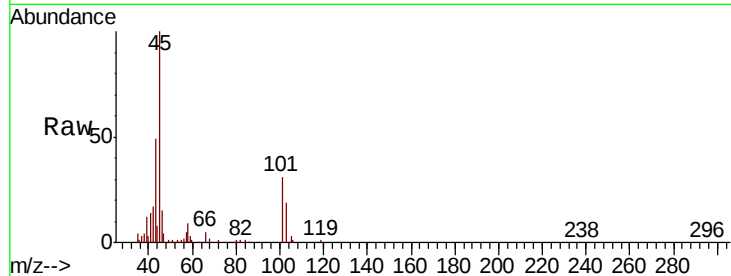


#11
 Trichlorofluoromethane
 Concen: 0.237 ppbv
 RT: 3.97
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 12 Jul 2022 12:28

Tot Ion:1
 Ion Rati
 101 100
 103 62.

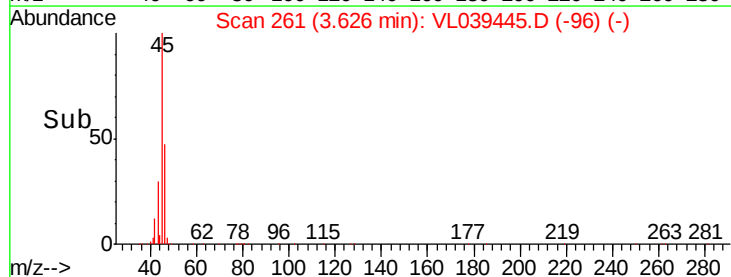
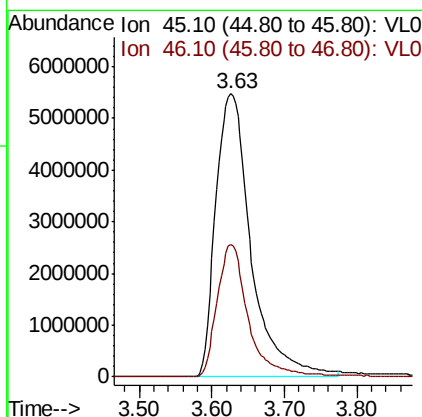
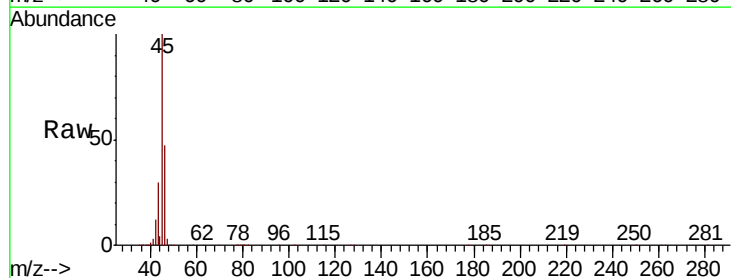
Manual Integrations
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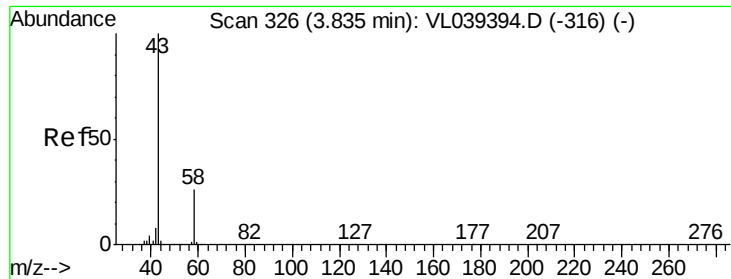
Reviewed By :Semsettin Yesilyurt 07/13/2022
 Supervised By :Mahesh Dadoda 07/13/2022



#13
 Ethanol
 Concen: 4552.504 ppbv
 RT: 3.63 min Scan# 261
 Delta R.T. 0.03 min
 Lab File: VL039445.D
 Acq: 12 Jul 2022 12:26

Tgt Ion: 45 Resp:18539511
 Ion Ratio Lower Upper
 45 100
 46 41.8 22.8 91.2



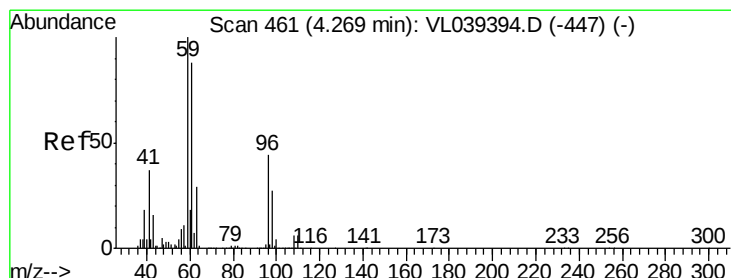
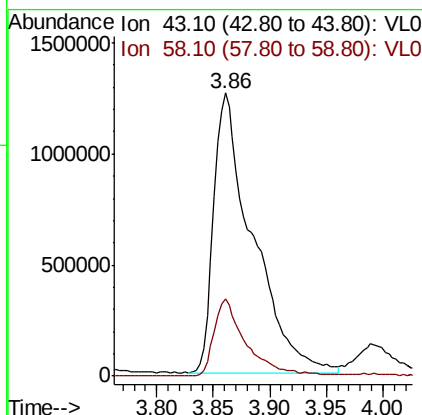
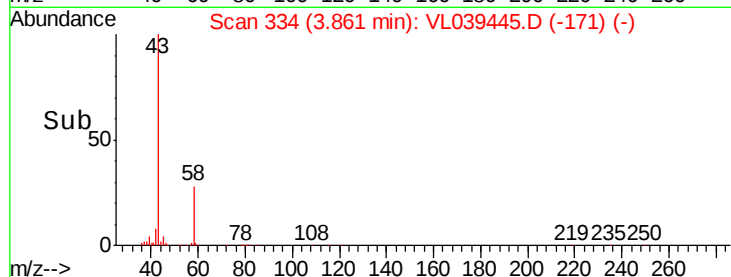
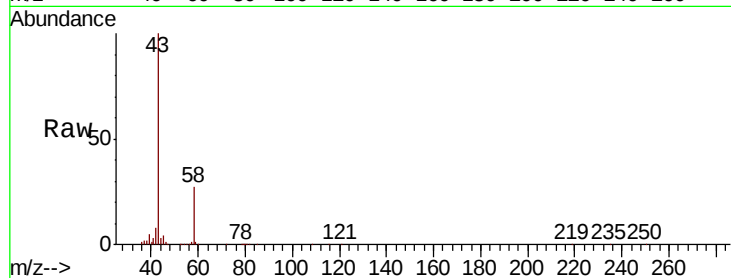


#15
Acetone
Concen: 20.908 ppbv
RT: 3.86
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Jul 2022 12:20

Tot Ion:
Ion Ratio
43 100
58 23.

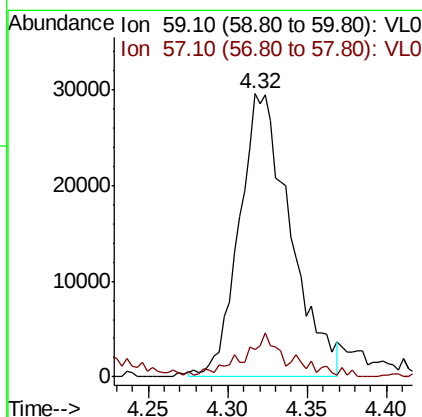
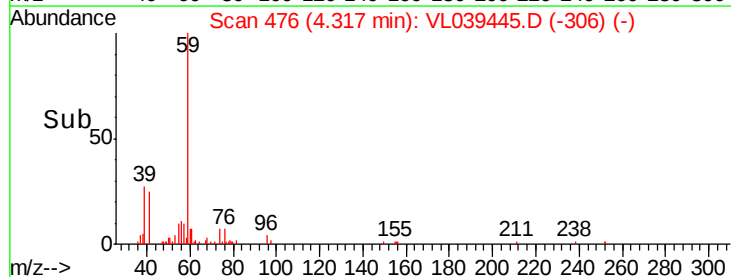
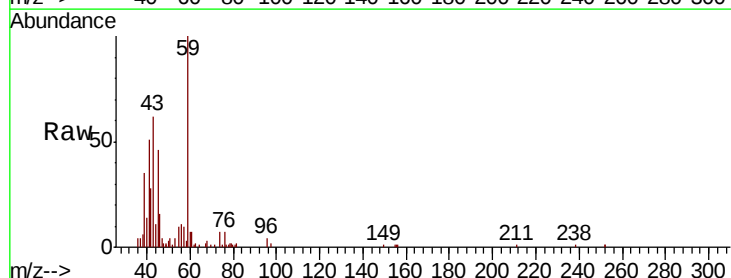
Manual Integrations
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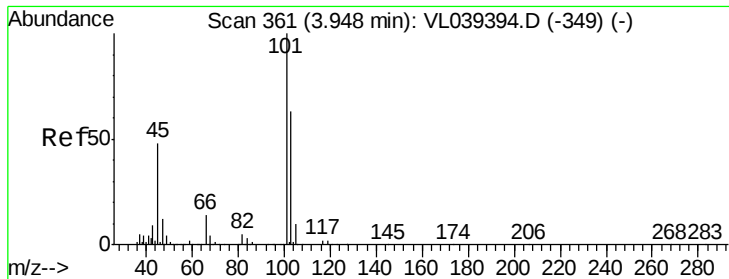
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#17
tert-Butyl alcohol
Concen: 0.536 ppbv m
RT: 4.32 min Scan# 476
Delta R.T. 0.05 min
Lab File: VL039445.D
Acq: 12 Jul 2022 12:26

Tgt Ion: 59 Resp: 65979
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 14.122 ppbv

RT: 3.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Jul 2022 12:26

Tot Ion:

Ion Ratio

45 100

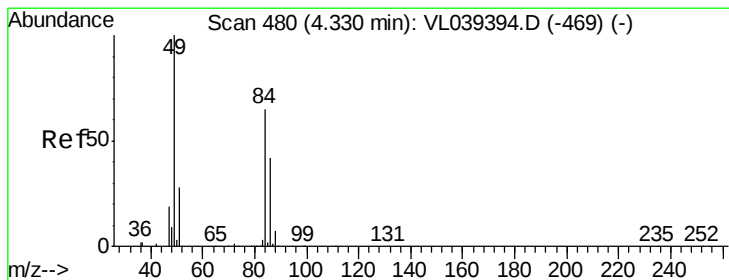
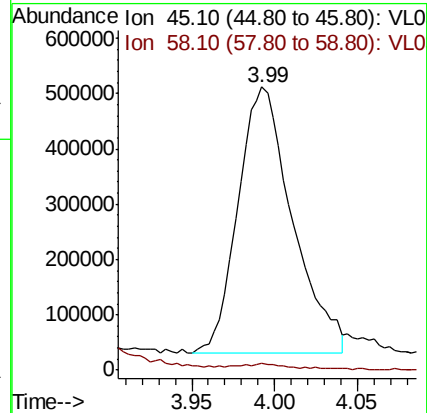
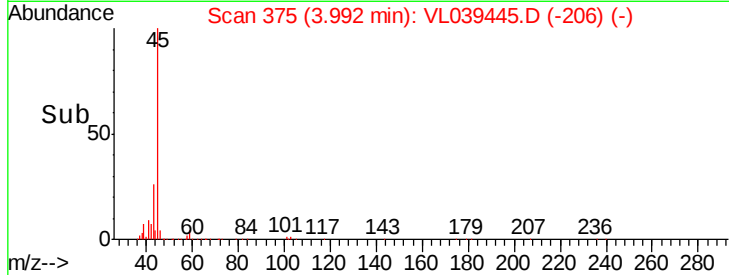
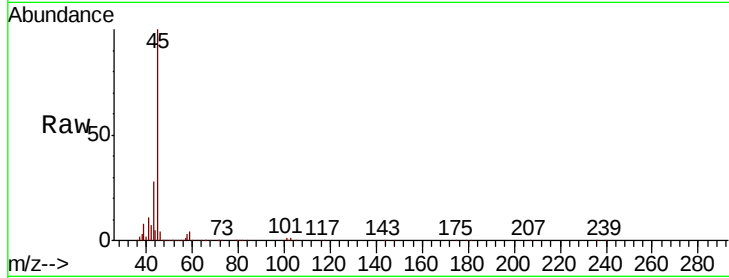
58 3.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#20

Methylene Chloride

Concen: 2.927 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.03 min

Lab File: VL039445.D

Acq: 12 Jul 2022 12:26

Tgt Ion: 84 Resp: 169072

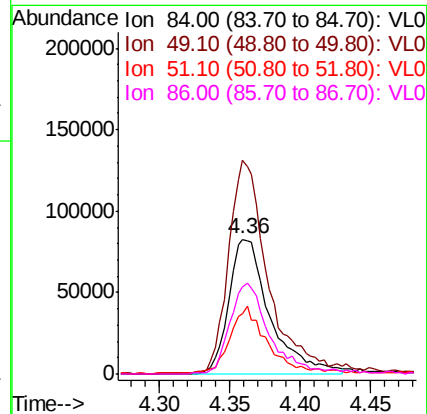
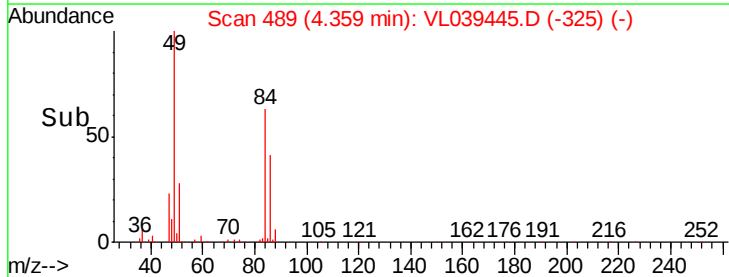
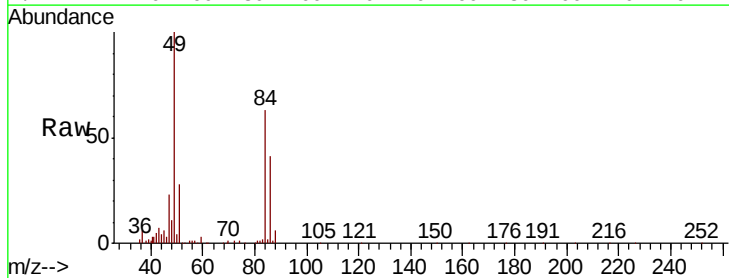
Ion Ratio Lower Upper

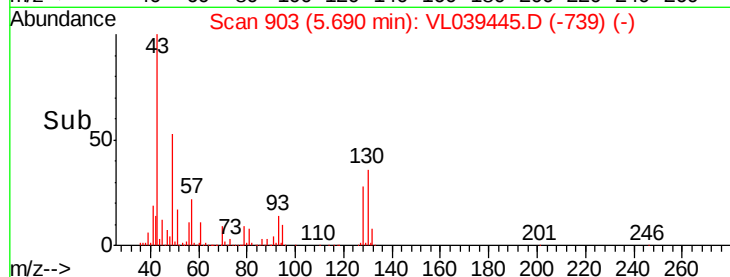
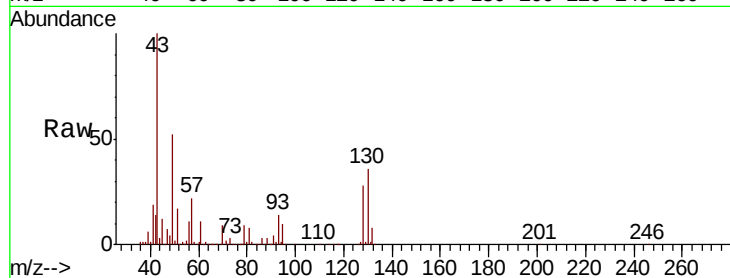
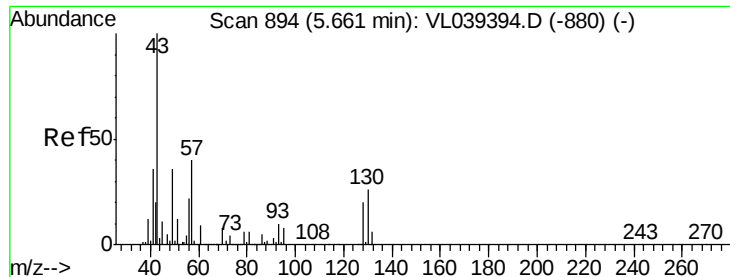
84 100

49 157.2 123.1 184.7

51 43.1 34.4 51.6

86 64.1 51.1 76.7



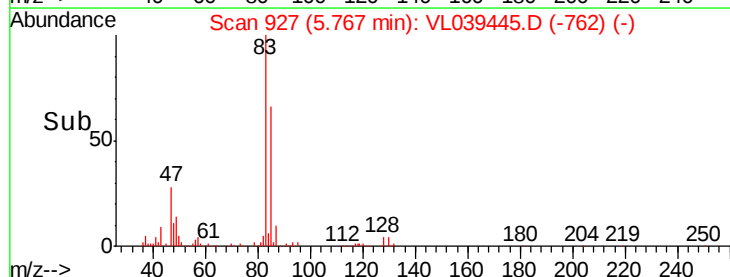
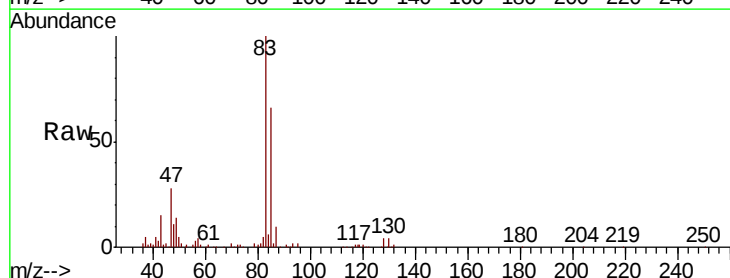
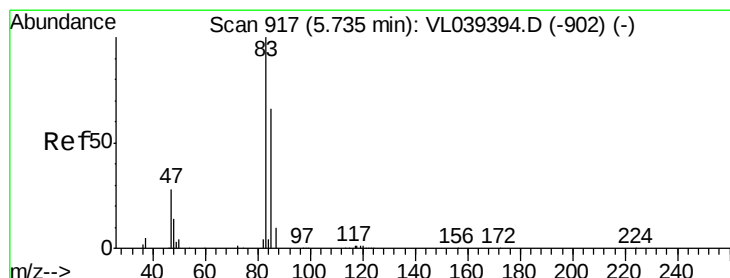
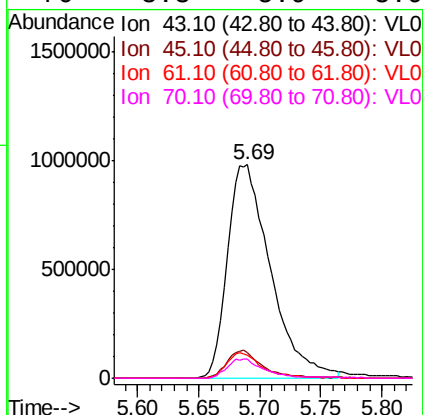


#25
Ethyl Acetate
Concen: 8.124 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Jul 2022 12:26

Tot Ion:
Ion Ratio
43 100
45 11.
61 10.
70 8.3 5.9 8.9

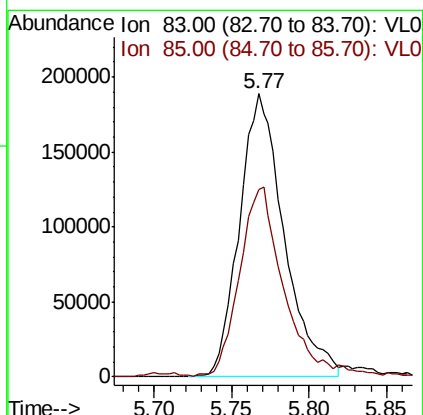
Manual Integrations
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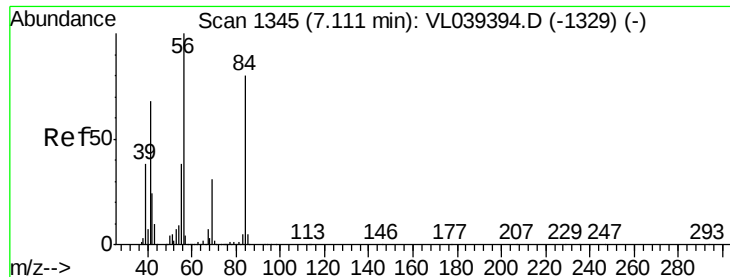
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#29
Chloroform
Concen: 1.823 ppbv
RT: 5.77 min Scan# 927
Delta R.T. 0.03 min
Lab File: VL039445.D
Acq: 12 Jul 2022 12:26

Tgt Ion: 83 Resp: 379687
Ion Ratio Lower Upper
83 100
85 65.4 52.8 79.2



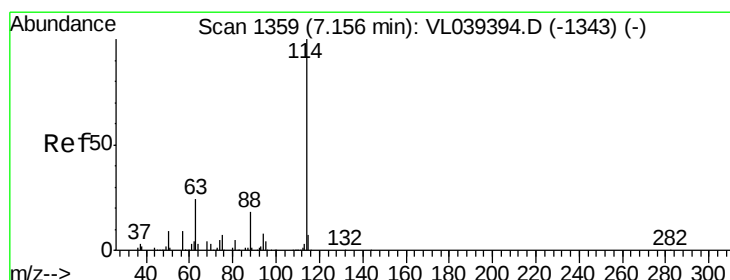
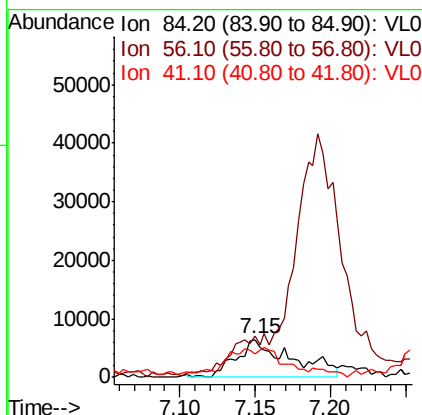
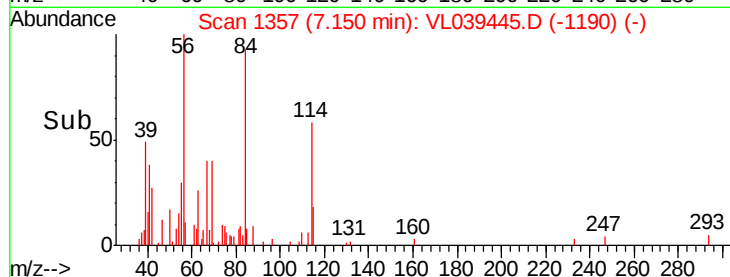
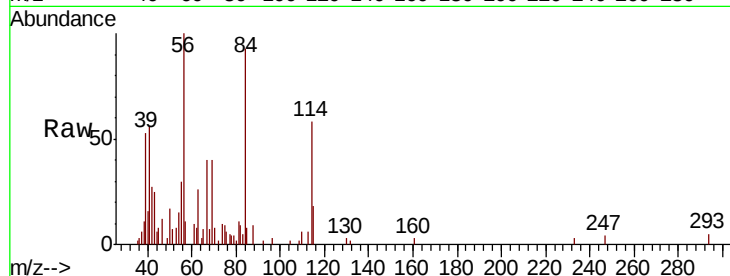


#30
Cvclohexane
Concen: 0.151 ppbv m
RT: 7.15
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 12 Jul 2022 12:26

Tot Ion:
Ion Ratio
84 100
56 0.
41 82.

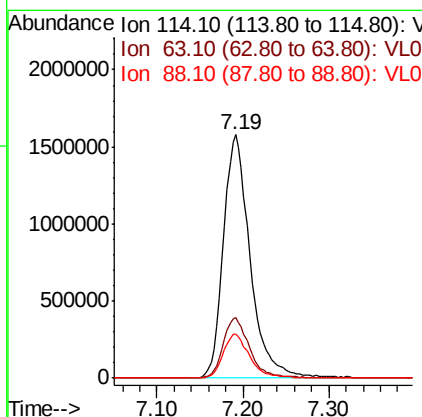
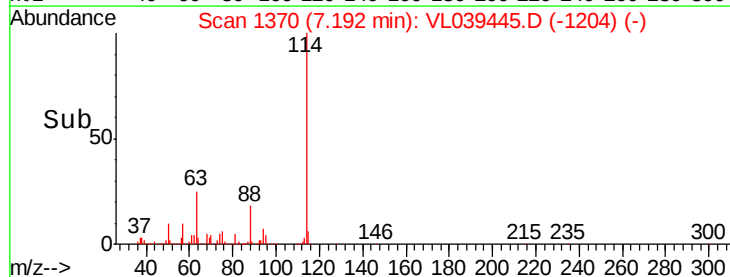
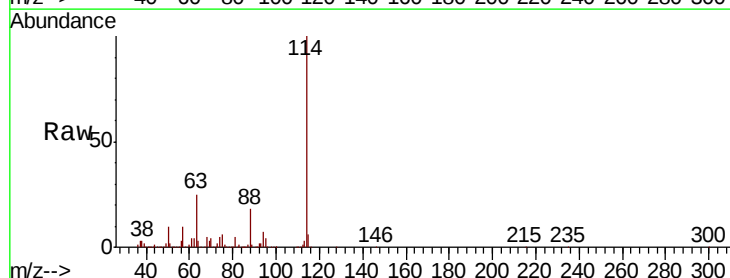
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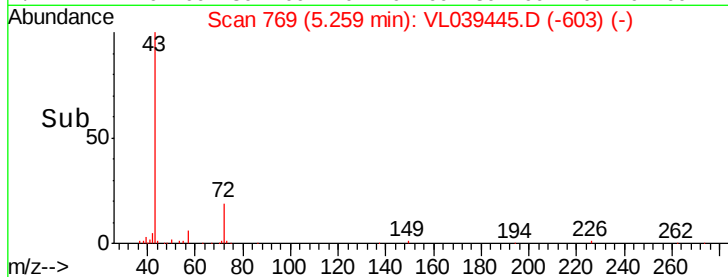
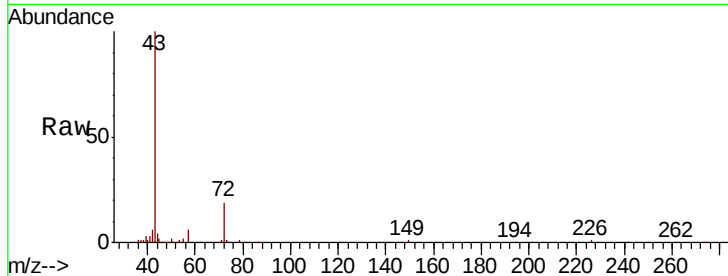
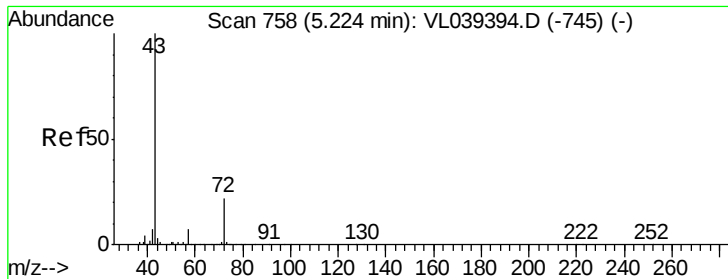
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. 0.04 min
Lab File: VL039445.D
Acq: 12 Jul 2022 12:26

Tgt Ion:114 Resp: 3425354
Ion Ratio Lower Upper
114 100
63 24.6 20.2 30.4
88 18.1 14.5 21.7



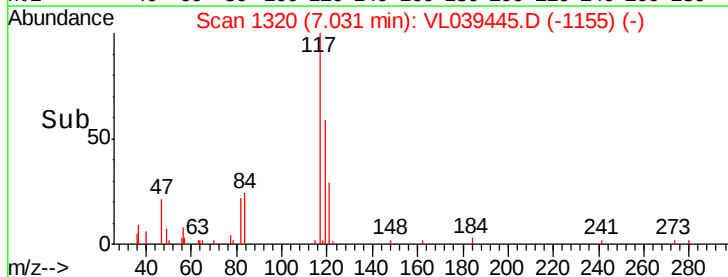
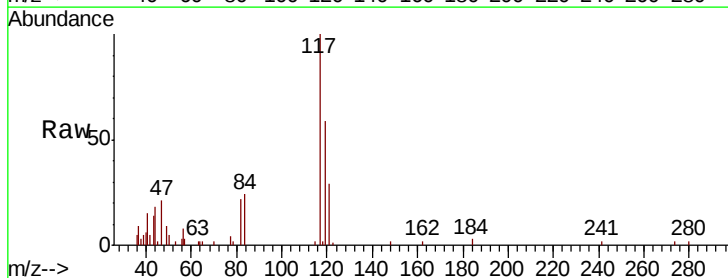
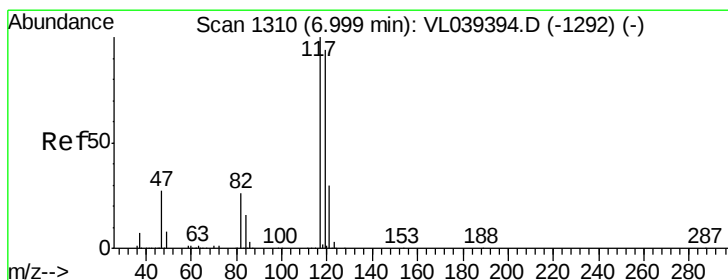
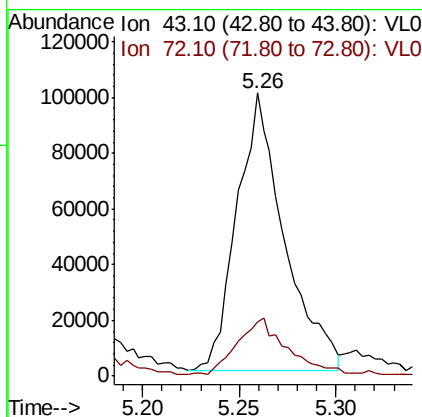


#34
2-Butanone
Concen: 0.987 ppbv
RT: 5.26
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Jul 2022 12:26

Tot Ion:
Ion Ratio
43 100
72 23.

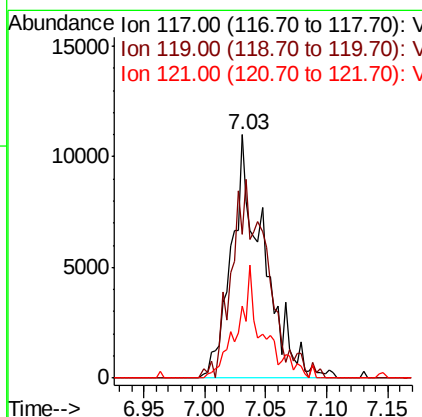
Manual Integrations
APPROVED

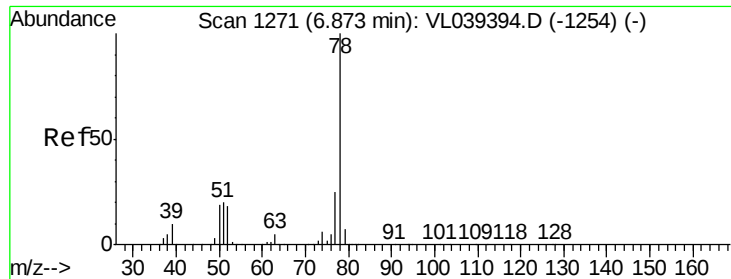
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#35
Carbon Tetrachloride
Concen: 0.095 ppbv m
RT: 7.03 min Scan# 1320
Delta R.T. 0.03 min
Lab File: VL039445.D
Acq: 12 Jul 2022 12:26

Tgt Ion:117 Resp: 20015
Ion Ratio Lower Upper
117 100
119 59.2 75.4 113.2#
121 29.4 24.2 36.2





#36

Benzene

Concen: 0.276 ppbv m

RT: 6.91

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Jul 2022 12:26

Tot Ion:

Ion Ratio

78 100

77 26.

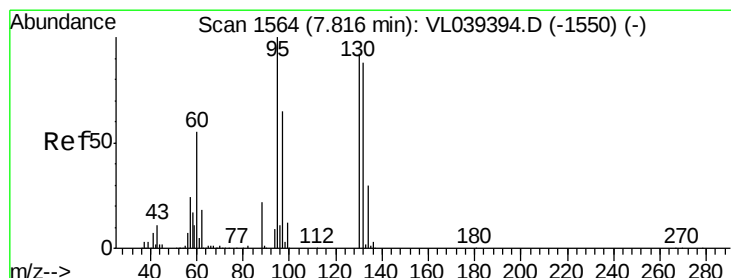
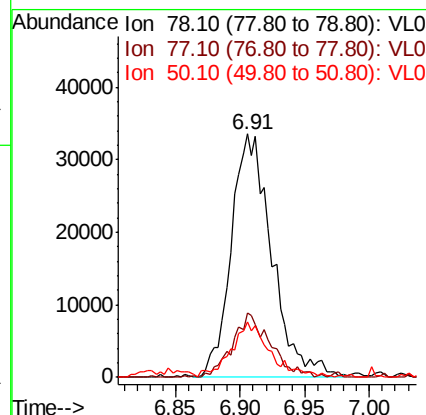
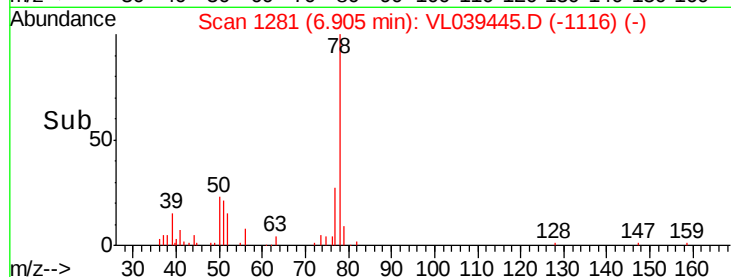
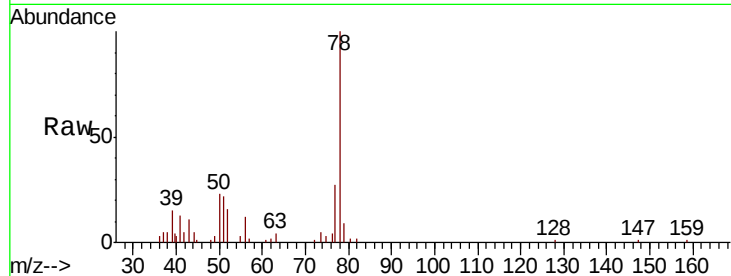
50 22.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#38

Trichloroethene

Concen: 0.042 ppbv m

RT: 7.86 min Scan# 1579

Delta R.T. 0.05 min

Lab File: VL039445.D

Acq: 12 Jul 2022 12:26

Tgt Ion:130 Resp: 5994

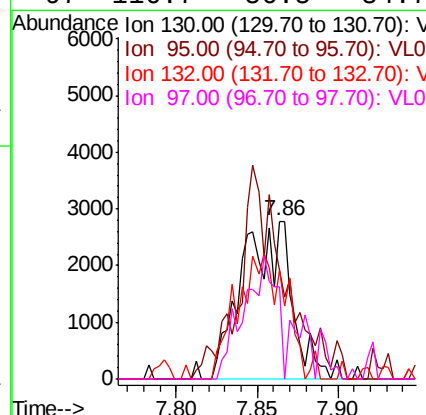
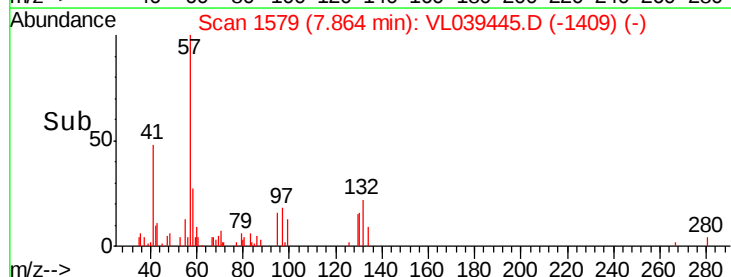
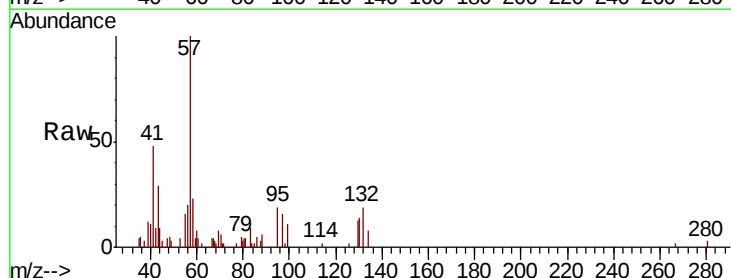
Ion Ratio Lower Upper

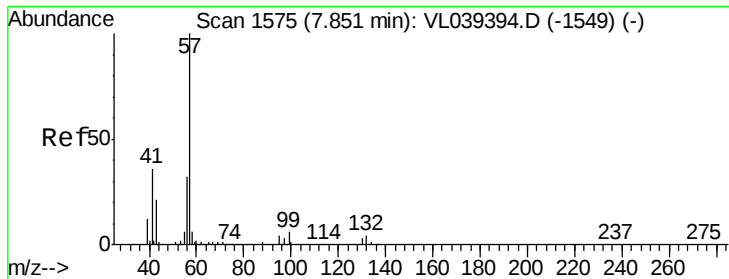
130 100

95 136.8 87.3 130.9#

132 138.2 76.7 115.1#

97 116.7 56.5 84.7#





#44

2,2,4-Trimethylpentane

Concen: 0.171 ppbv m

RT: 7.89 Instrument:

Delta R.T. MSVOA_L

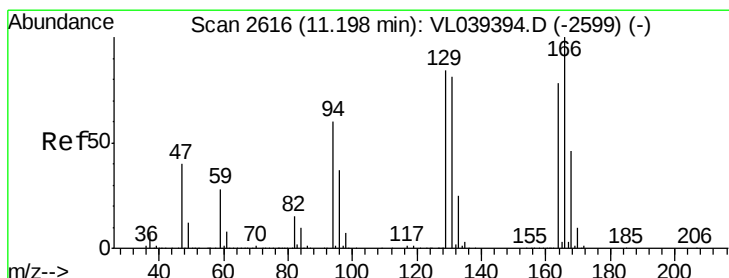
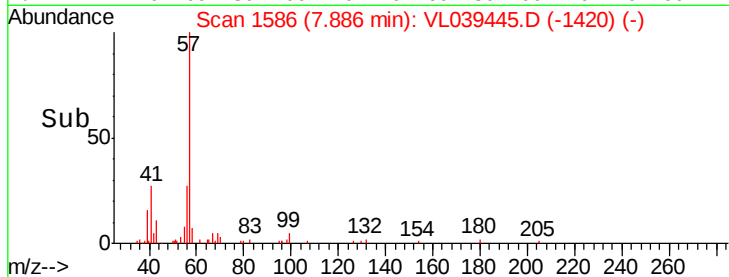
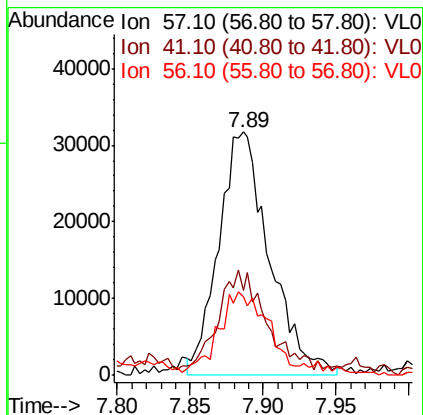
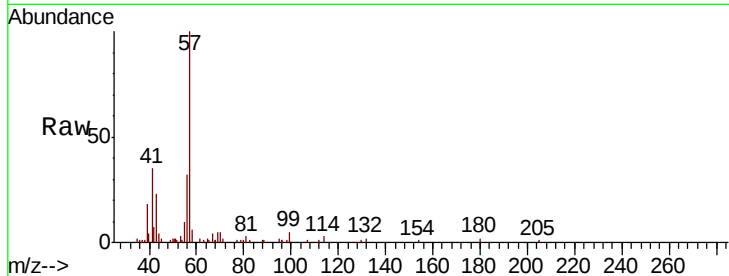
Lab File: ClientSampleId:

Acq: 12 Jul 2022 12:26

Tot Ion:
Ion Ratio
57 100
41 0.
56 0.

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#52

Tetrachloroethene

Concen: 0.044 ppbv m

RT: 11.24 min Scan# 2630

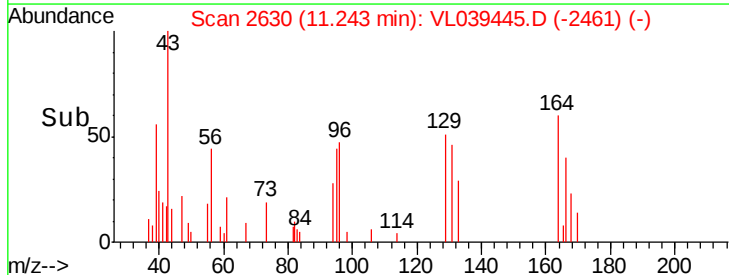
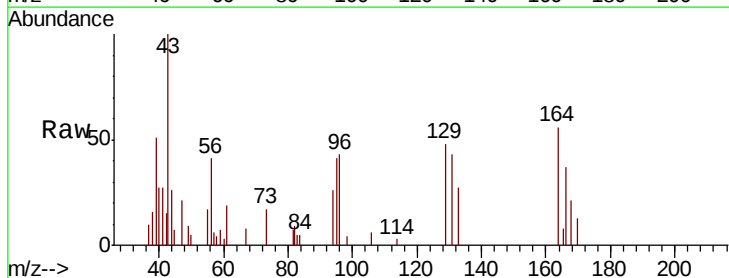
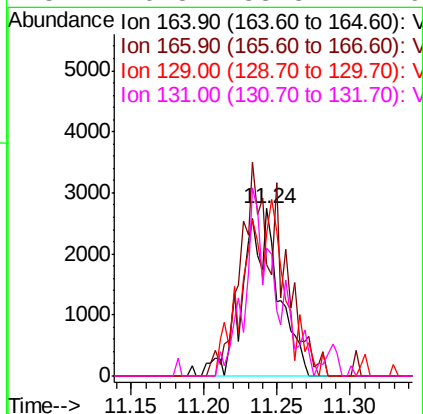
Delta R.T. 0.04 min

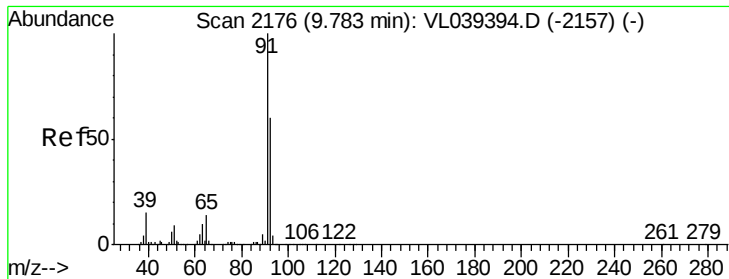
Lab File: VL039445.D

Acq: 12 Jul 2022 12:26

Tgt Ion:164 Resp: 4679

Ion	Ratio	Lower	Upper
164	100		
166	66.8	102.2	153.2#
129	85.1	85.8	128.8#
131	76.8	83.3	124.9#



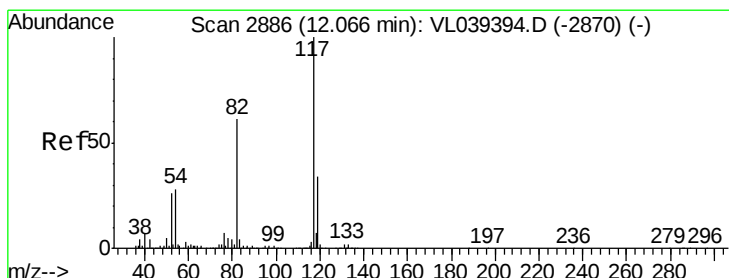
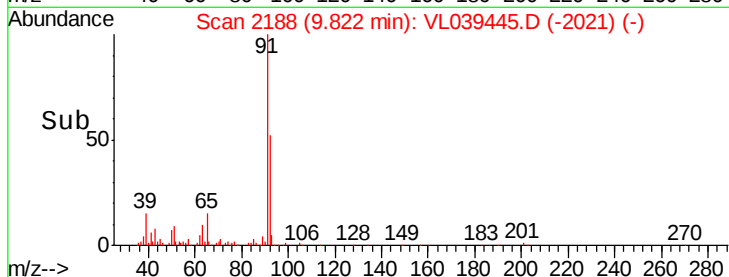
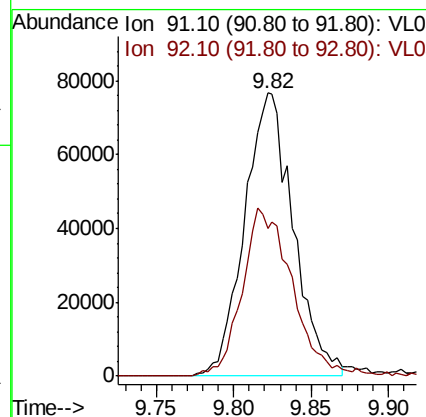
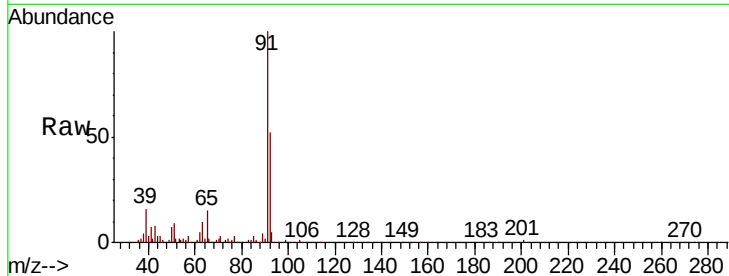


#53
Toluene
Concen: 0.549 ppbv
RT: 9.82
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Jul 2022 12:20

Tot Ion:
Ion Ratio
91 100
92 61.

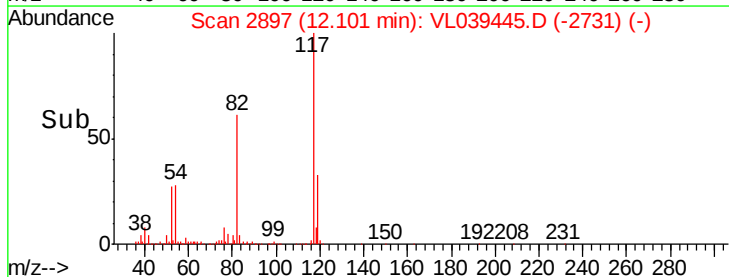
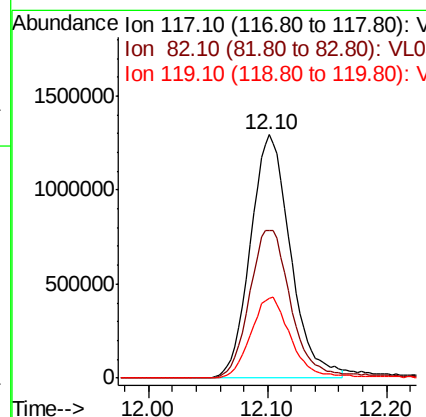
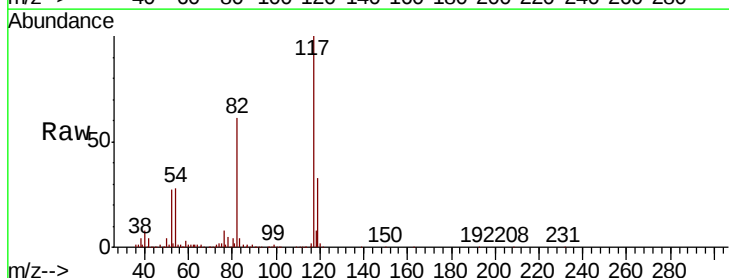
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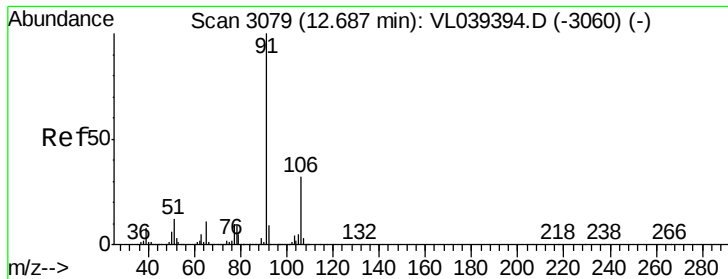
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. 0.04 min
Lab File: VL039445.D
Acq: 12 Jul 2022 12:26

Tgt Ion:117 Resp: 3012512
Ion Ratio Lower Upper
117 100
82 65.4 50.8 76.2
119 34.2 24.1 36.1





#58

Ethyl Benzene

Concen: 0.152 ppbv

RT: 12.73

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Jul 2022 12:20

Tot Ion:

Ion Ratio

91 100

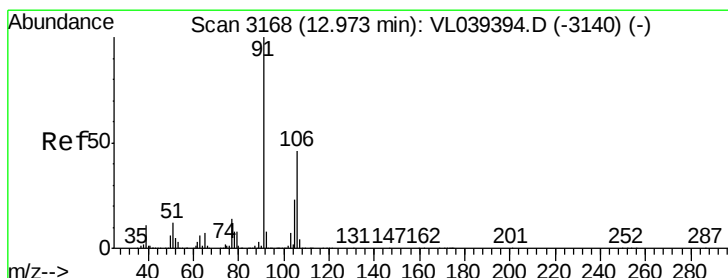
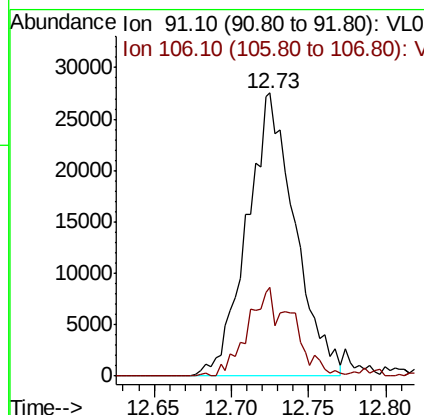
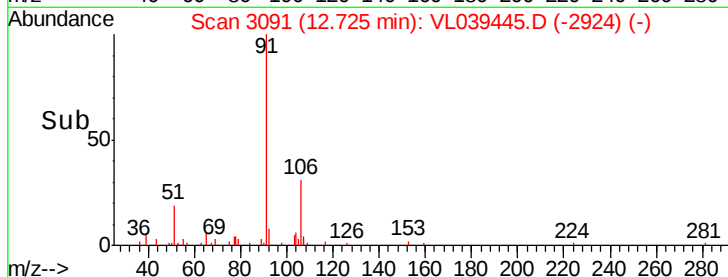
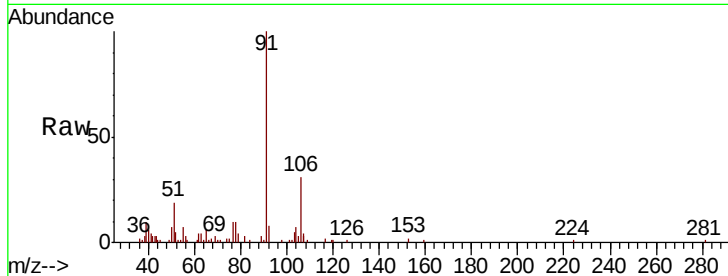
106 31.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#59

m/p-Xylene

Concen: 0.451 ppbv m

RT: 12.98 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VL039445.D

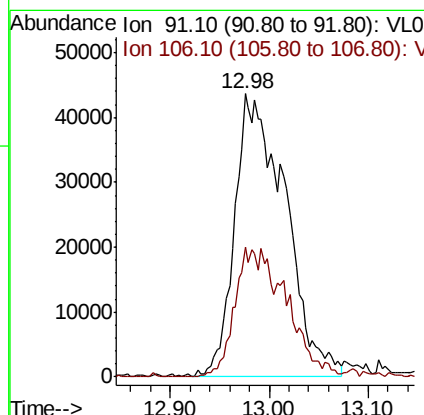
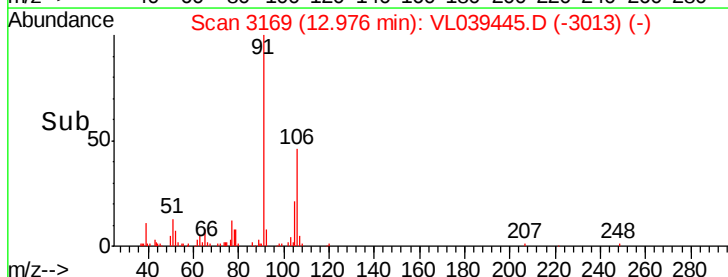
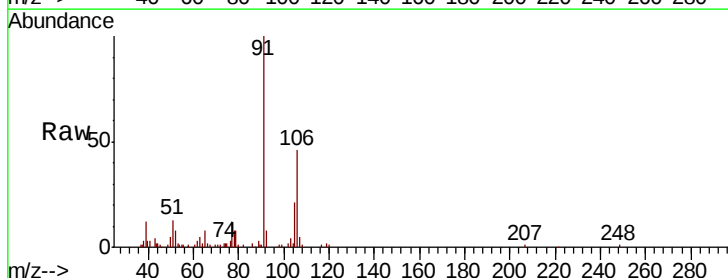
Acq: 12 Jul 2022 12:26

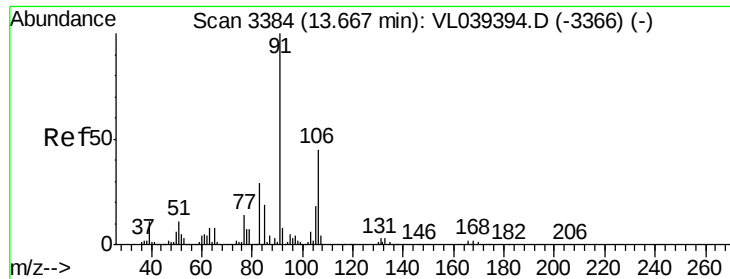
Tgt Ion: 91 Resp: 154559

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



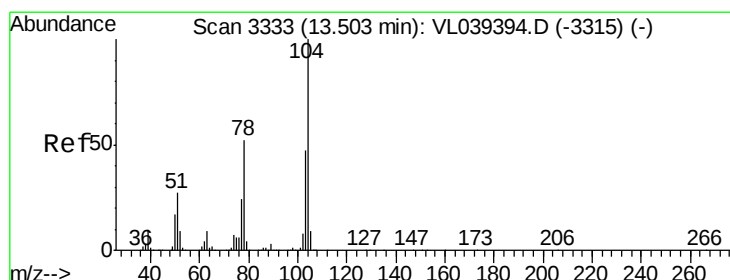
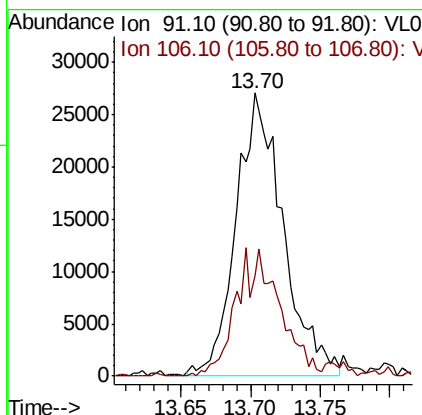
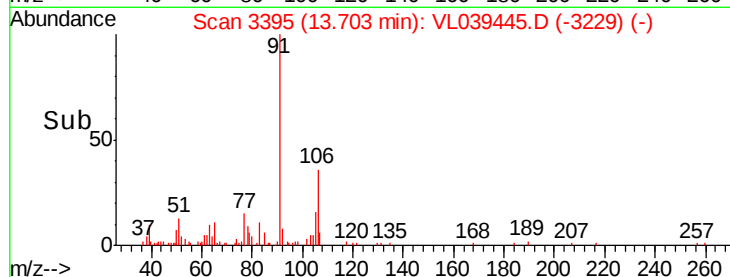
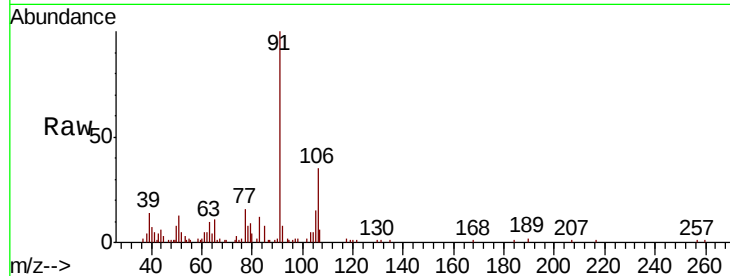


#60
o-Xylene
Concen: 0.196 ppbv m
RT: 13.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Jul 2022 12:20

Tot Ion:
Ion Ratio
91 100
106 0.

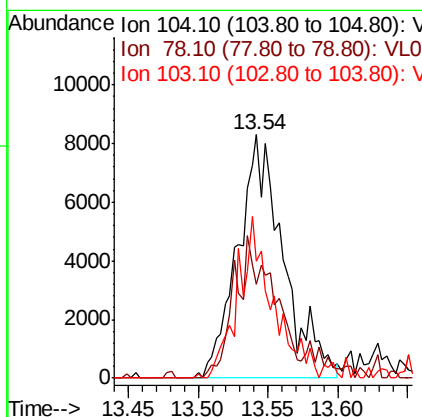
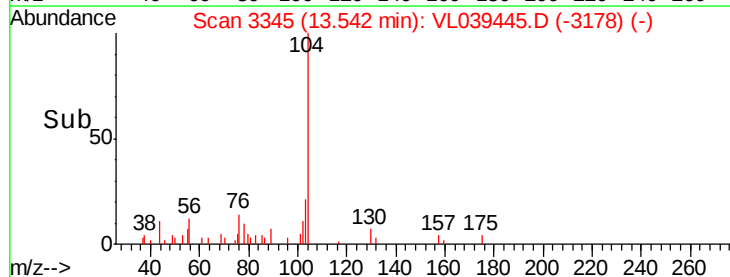
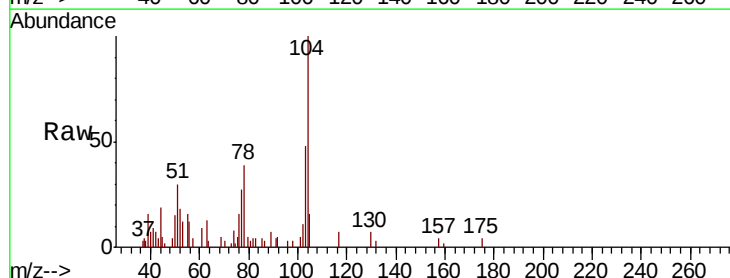
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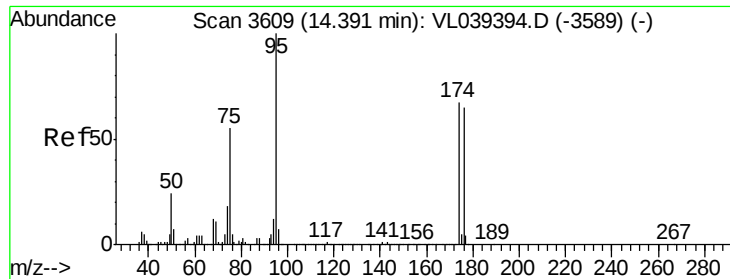
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#61
Styrene
Concen: 0.107 ppbv m
RT: 13.54 min Scan# 3345
Delta R.T. 0.04 min
Lab File: VL039445.D
Acq: 12 Jul 2022 12:26

Tgt Ion:104 Resp: 18876
Ion Ratio Lower Upper
104 100
78 56.3 41.2 61.8
103 52.9 38.7 58.1



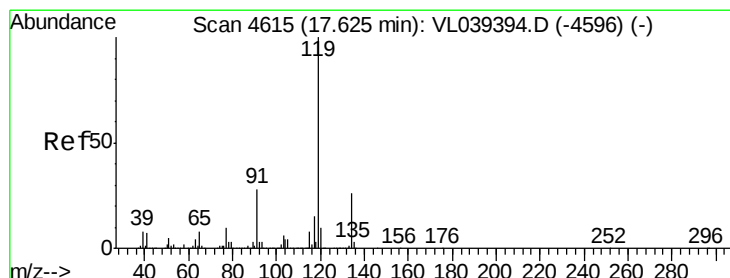
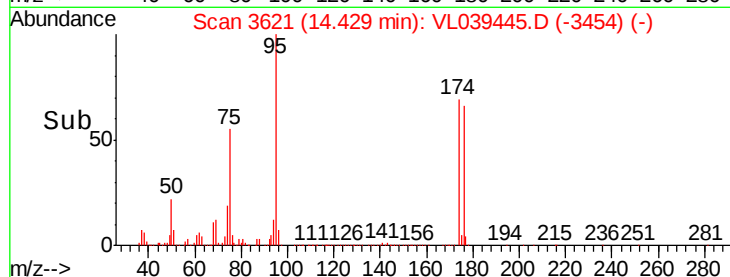
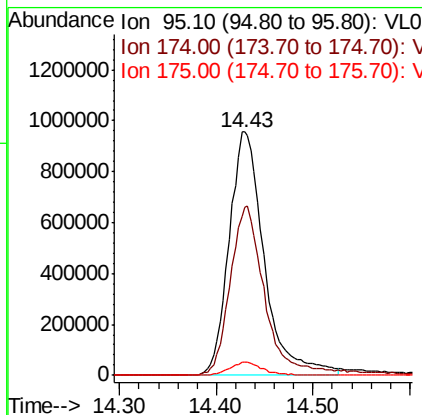
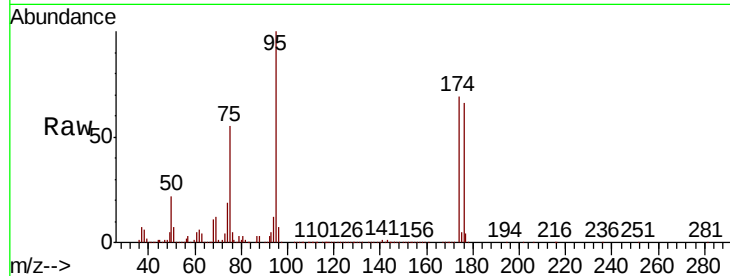


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.823 ppbv
 RT: 14.43 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Jul 2022 12:26

Tot Ion:
 Ion Ratio
 95 100
 174 70.
 175 5.

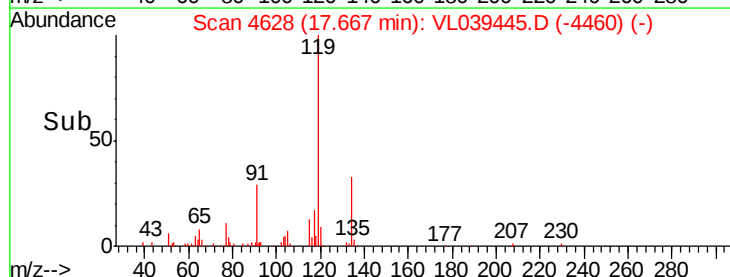
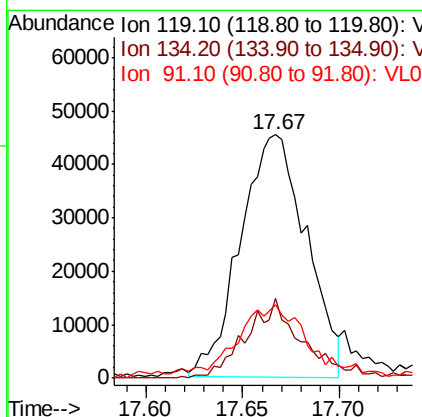
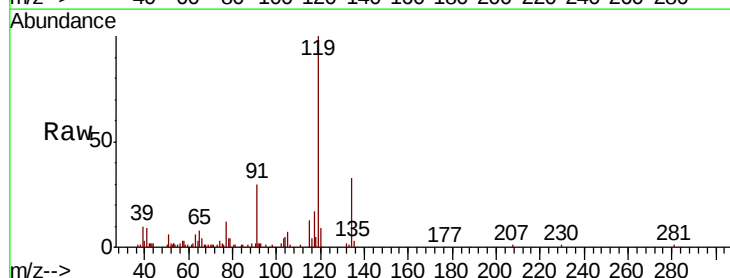
Manual Integrations
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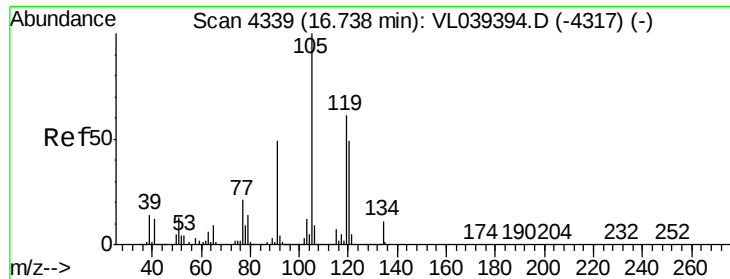
Reviewed By :Semsettin Yesilyurt 07/13/2022
 Supervised By :Mahesh Dadoda 07/13/2022



#69
 p-Isopropyltoluene
 Concen: 0.206 ppbv
 RT: 17.67 min Scan# 4628
 Delta R.T. 0.04 min
 Lab File: VL039445.D
 Acq: 12 Jul 2022 12:26

Tgt Ion:119 Resp: 107526
 Ion Ratio Lower Upper
 119 100
 134 28.9 20.3 30.5
 91 33.3 22.9 34.3





#74

1,2,4-Trimethylbenzene

Concen: 0.140 ppbv m

RT: 16.78

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Jul 2022 12:20

Tot Ion:1

Ion Ratio

105 100

120 47.

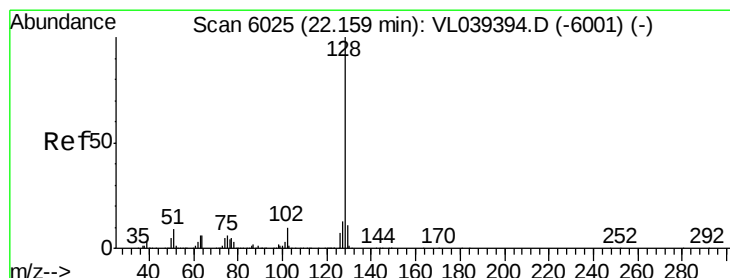
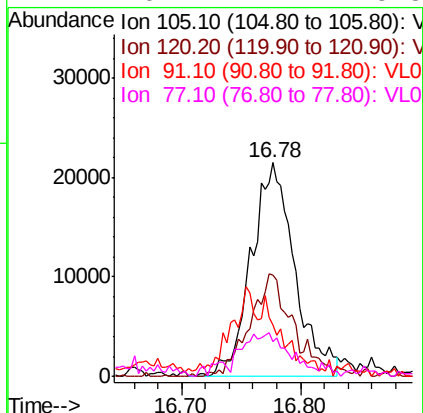
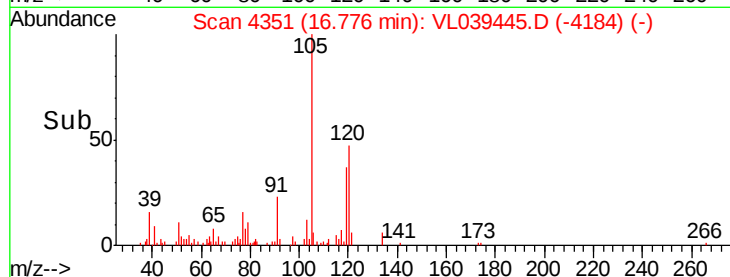
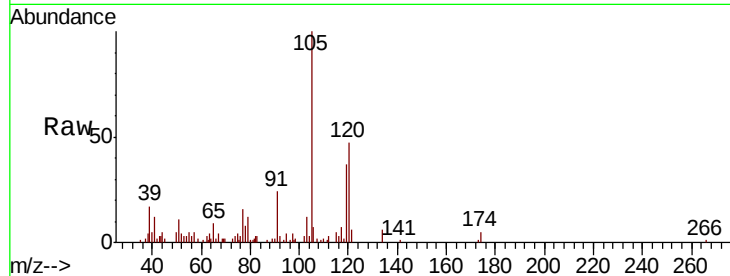
91 23.

77 16.1 17.2 25.8#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#79

Naphthalene

Concen: 0.217 ppbv m

RT: 22.22 min Scan# 6044

Delta R.T. 0.06 min

Lab File: VL039445.D

Acq: 12 Jul 2022 12:26

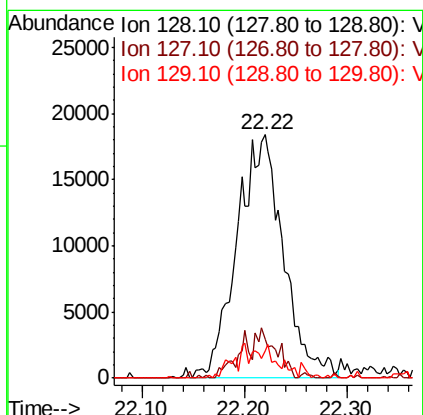
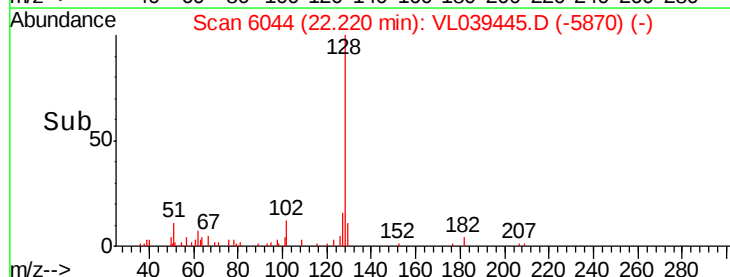
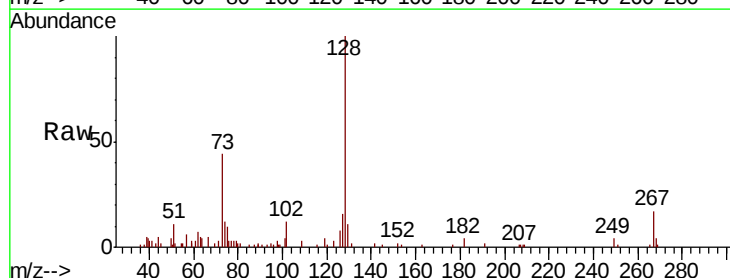
Tgt Ion:128 Resp: 57848

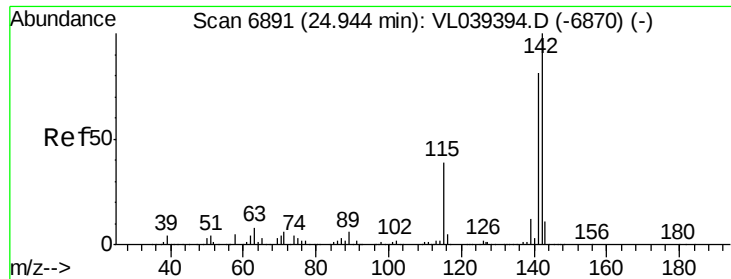
Ion Ratio Lower Upper

128 100

127 16.0 10.6 15.8#

129 11.3 8.8 13.2





#80

Naphthalene, 2-methyl-

Concen: 0.128 ppbv

RT: 24.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Jul 2022 12:20

Tot Ion:1

Ion Rati

142 100

141 81.

115 43.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022

