

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021622\
 Data File : VL038370.D
 Acq On : 16 Feb 2022 17:25
 Operator : SY/AP
 Sample : N1546-01DUP 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/21/2022
 Supervised By : Mahesh Dadoda 02/21/2022

Quant Time: Feb 17 10:05:53 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	902650	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.14	114	2361166	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.04	117	2135863	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	1710276	10.55	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	64846	0.34	ppbv	94
3) Chlorodifluoromethane	2.99	51	27001	0.15	ppbv #	77
4) Chloromethane	3.13	50	12431	0.20	ppbv	100
9) Propene	2.99	41	84007m	1.44	ppbv	
10) Heptane	8.08	43	24422m	0.16	ppbv	
11) Trichlorofluoromethane	3.93	101	25569	0.17	ppbv	87
13) Ethanol	3.58	45	181451	28.89	ppbv	100
15) Acetone	3.83	43	408796	5.14	ppbv	95
17) tert-Butyl alcohol	4.28	59	13218m	0.15	ppbv	
19) Isopropyl Alcohol	3.94	45	204882	4.12	ppbv	100
20) Methylene Chloride	4.32	84	99682	2.15	ppbv	96
26) Hexane	5.66	57	67085	0.65	ppbv #	70
31) cis-1,2-Dichloroethene	5.52	61	9002m	0.10	ppbv	
34) 2-Butanone	5.22	43	83708	1.08	ppbv	95
36) Benzene	6.86	78	31240	0.15	ppbv #	89
38) Trichloroethene	7.80	130	74216	0.95	ppbv	95
41) Tetrahydrofuran	6.02	42	81183	1.56	ppbv	93
52) Tetrachloroethene	11.18	164	448483	6.23	ppbv	97
53) Toluene	9.77	91	1760277	7.61	ppbv	97
58) Ethyl Benzene	12.67	91	81256	0.26	ppbv	94
59) m/p-Xylene	12.92	91	236836	0.88	ppbv	96
60) o-Xylene	13.64	91	98364m	0.39	ppbv	
69) p-Isopropyltoluene	17.62	119	103588	0.36	ppbv #	90
73) 1,3,5-Trimethylbenzene	15.95	105	34379m	0.15	ppbv	

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

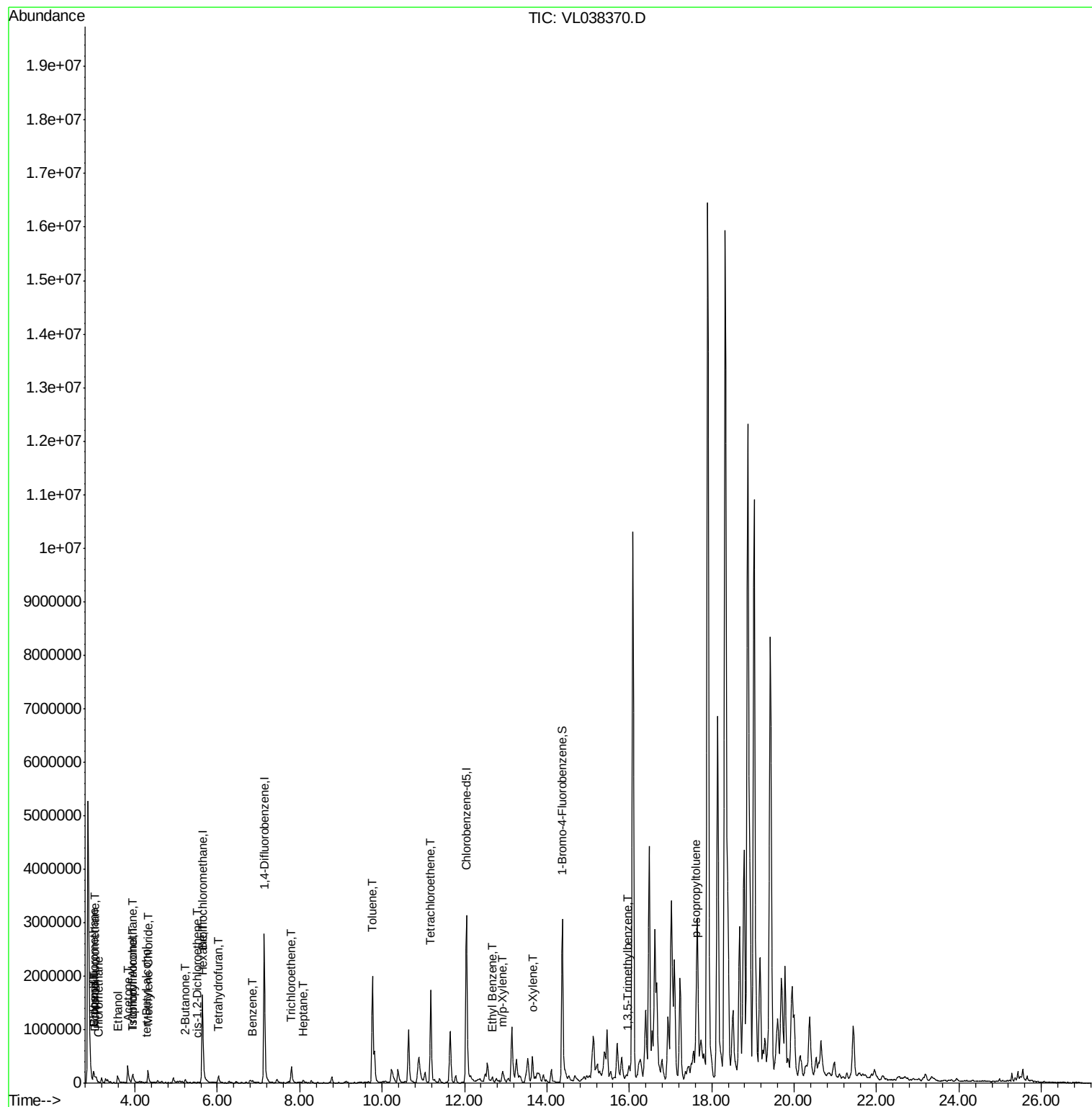
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL021622\
Data File : VL038370.D
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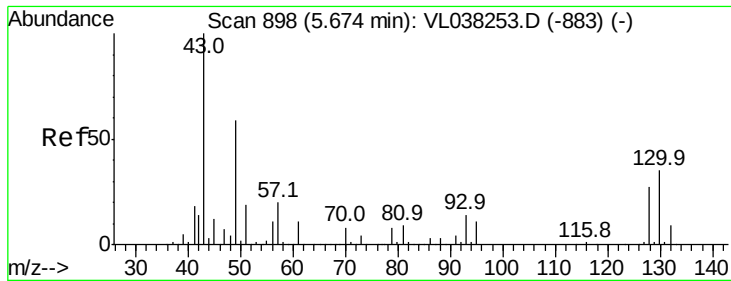
Instrument :
MSVOA_L
ClientSampleId :
SVP-1DUP

Quant Time: Feb 17 10:05:53 2022
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Reviewed By :Semsettin Yesilyurt 02/21/2022
Supervised By :Mahesh Dadoda 02/21/2022





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.64 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SVP-1DUP

Acq: 16 Feb 2022 17:25

Tgt Ion:

Ion Ratio

49 100

128 49.

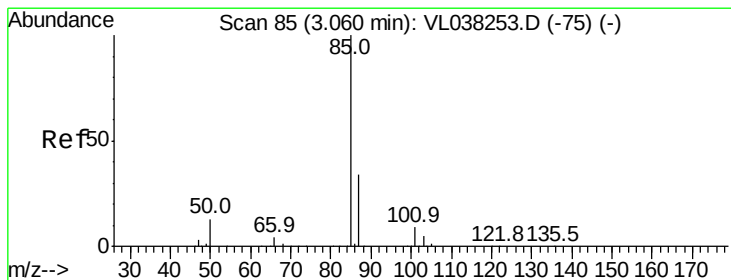
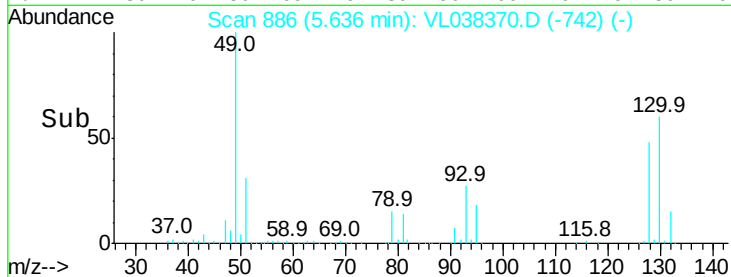
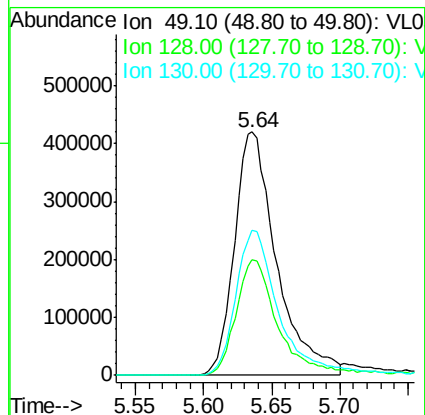
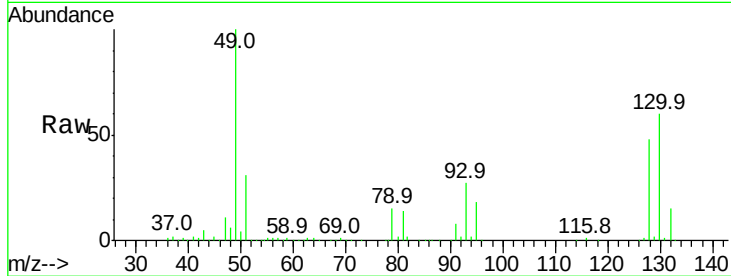
130 61.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/21/2022

Supervised By :Mahesh Dadoda 02/21/2022



#2

Dichlorodifluoromethane

Concen: 0.34 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.03 min

Lab File: VL038370.D

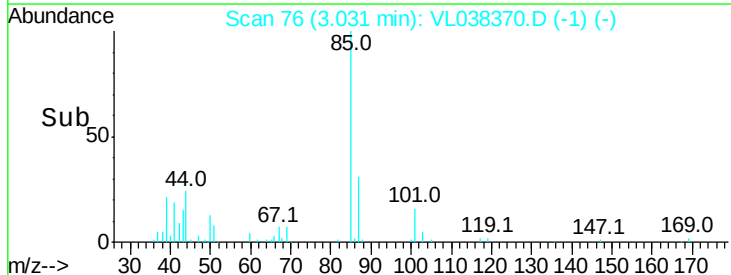
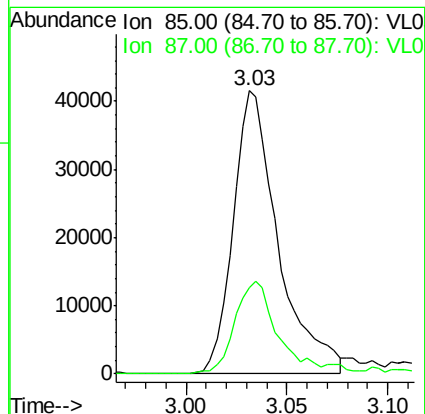
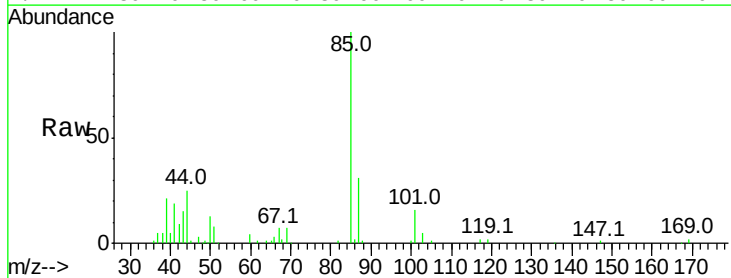
Acq: 16 Feb 2022 17:25

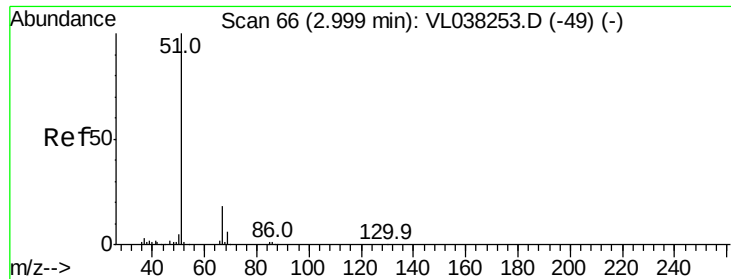
Tgt Ion: 85 Resp: 64846

Ion Ratio Lower Upper

85 100

87 30.5 27.0 40.6





#3

Chlorodifluoromethane

Concen: 0.15 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Feb 2022 17:25 SVP-1DUP

Tgt Ion:

Ion Ratio

51 100

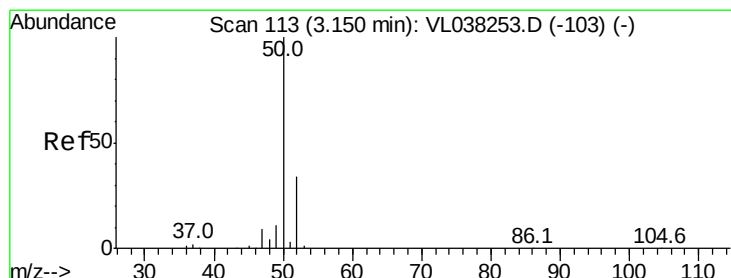
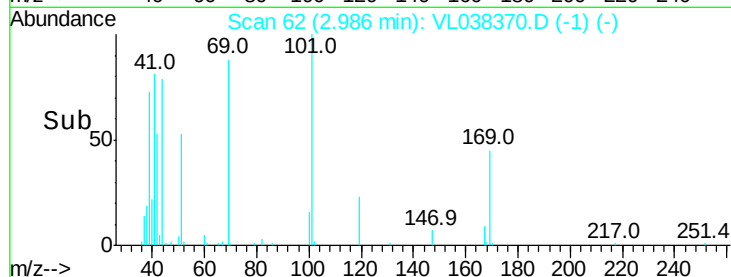
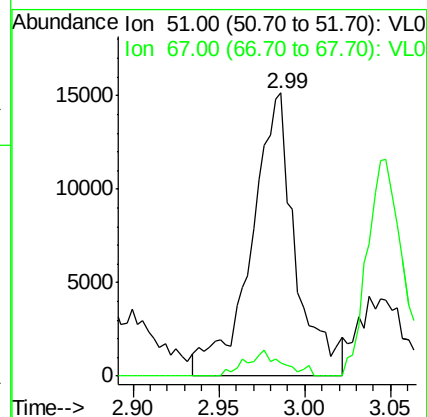
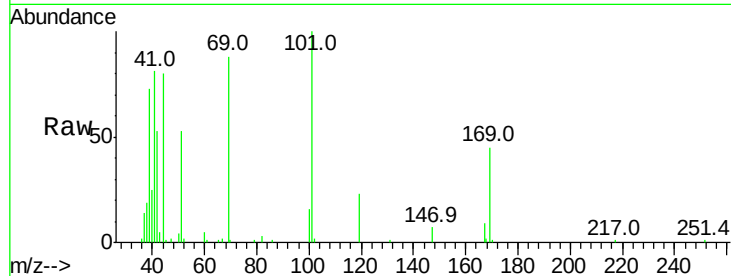
67 7.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/21/2022

Supervised By :Mahesh Dadoda 02/21/2022



#4

Chloromethane

Concen: 0.20 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.02 min

Lab File: VL038370.D

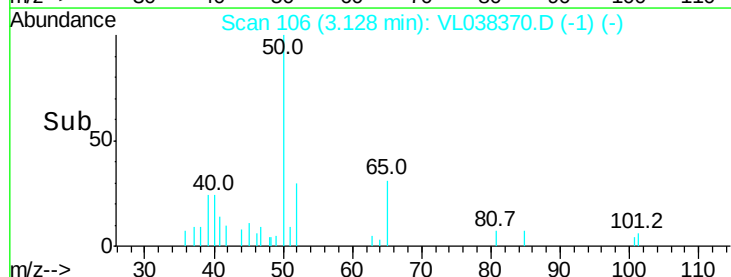
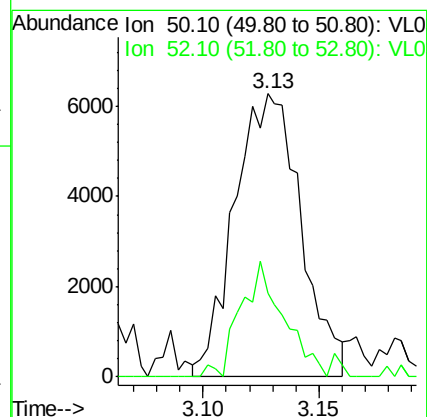
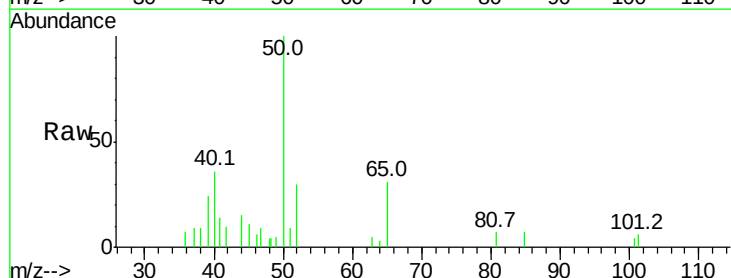
Acq: 16 Feb 2022 17:25

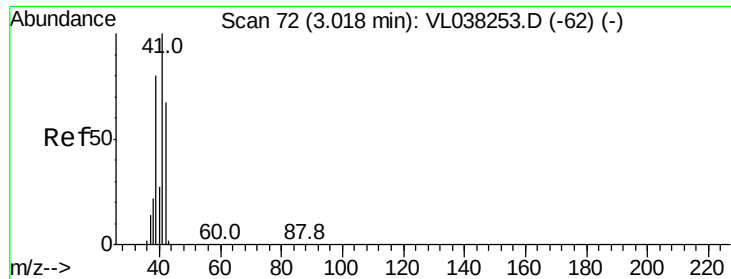
Tgt Ion: 50 Resp: 12431

Ion Ratio Lower Upper

50 100

52 33.8 27.1 40.7





#9

Propene

Concen: 1.44 ppbv m

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Feb 2022 17:25 SVP-1DUP

Tgt Ion:

Ion Ratio

41 100

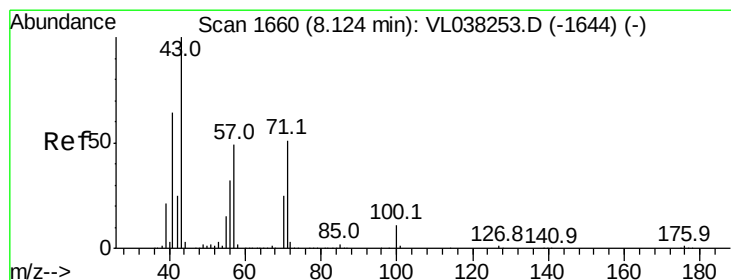
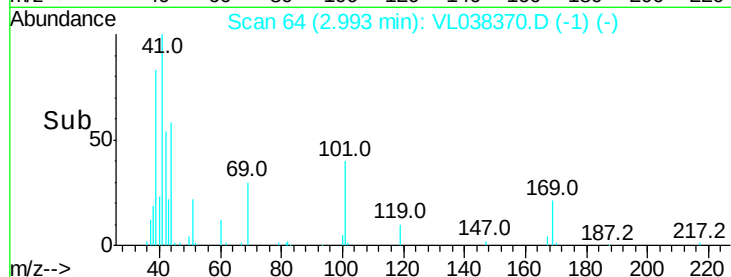
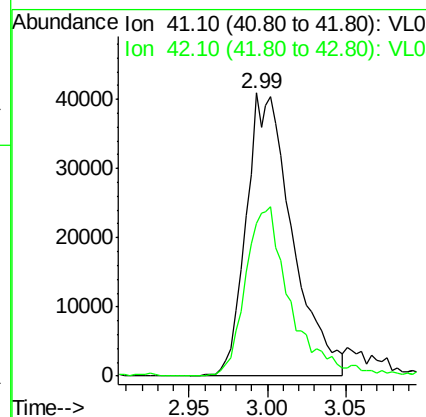
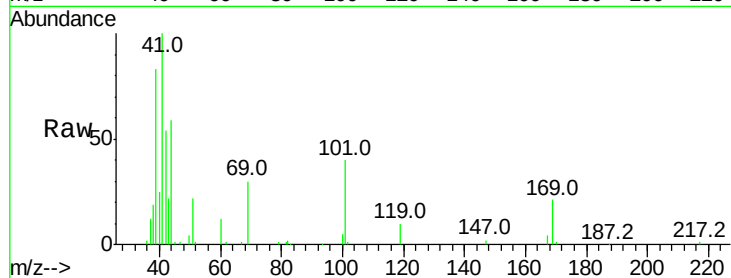
42 59.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/21/2022

Supervised By :Mahesh Dadoda 02/21/2022



#10

Heptane

Concen: 0.16 ppbv m

RT: 8.08 min Scan# 1647

Delta R.T. -0.04 min

Lab File: VL038370.D

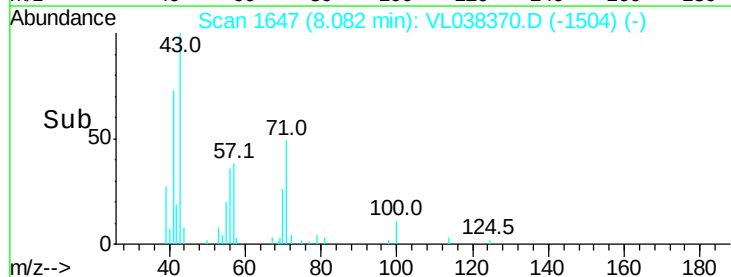
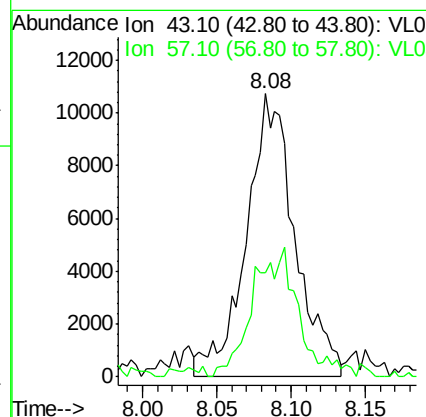
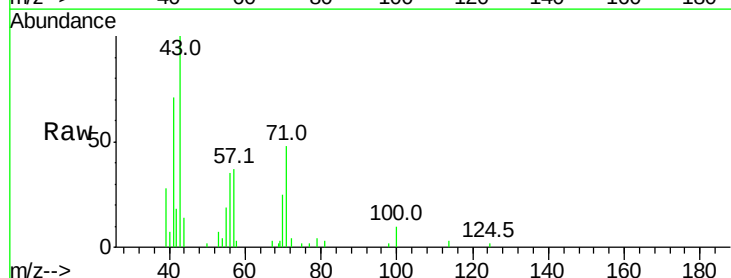
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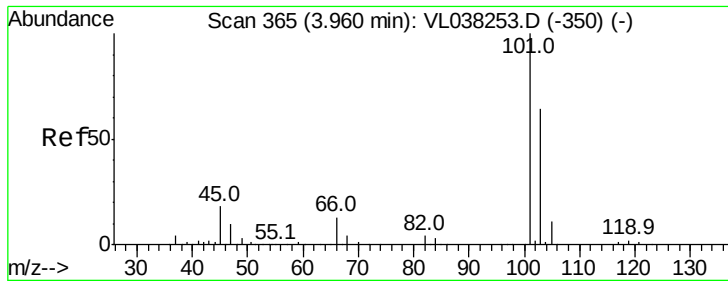
Tgt Ion: 43 Resp: 24422

Ion Ratio Lower Upper

43 100

57 0.0 39.5 59.3#



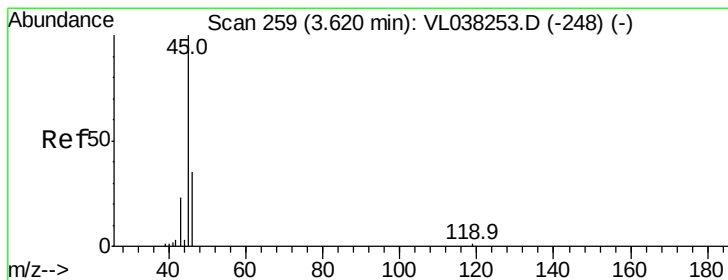
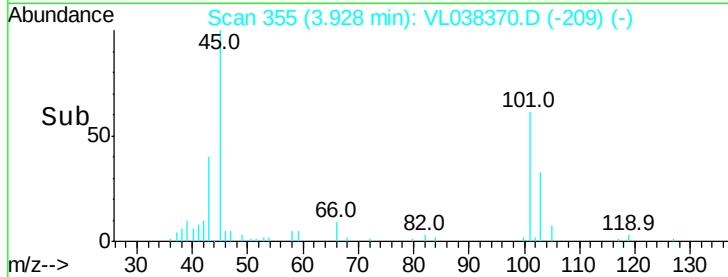
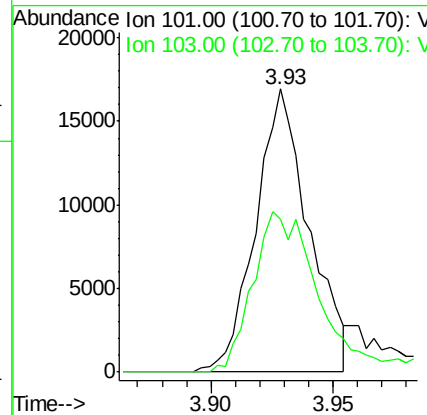
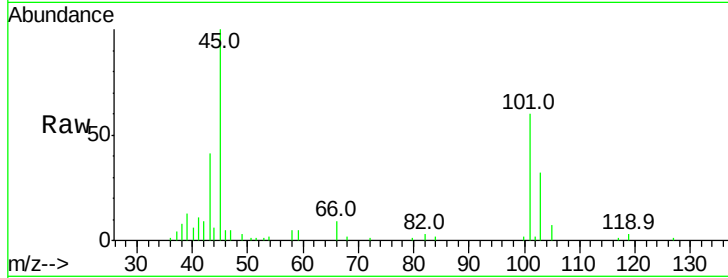


#11
 Trichlorofluoromethane
 Concen: 0.17 ppbv
 RT: 3.93
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 SVP-1DUP
 Acq: 16 Feb 2022 17:25

Tgt Ion: 1
 Ion Ratio
 101 100
 103 53.

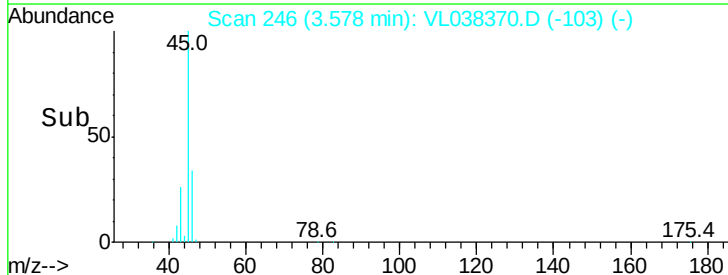
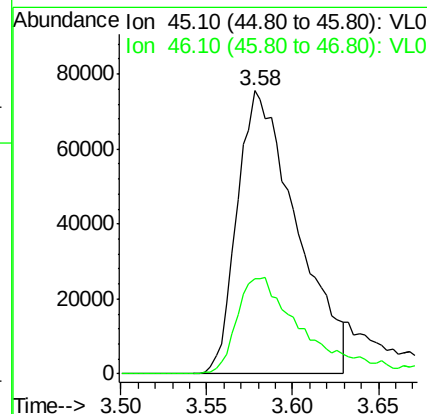
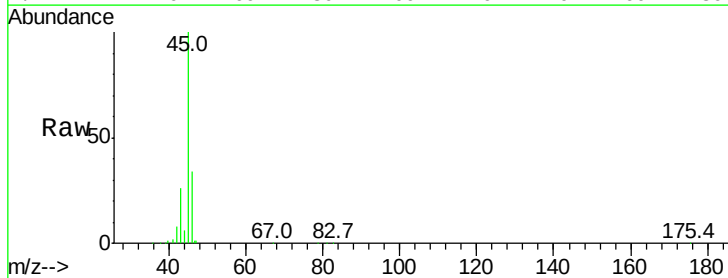
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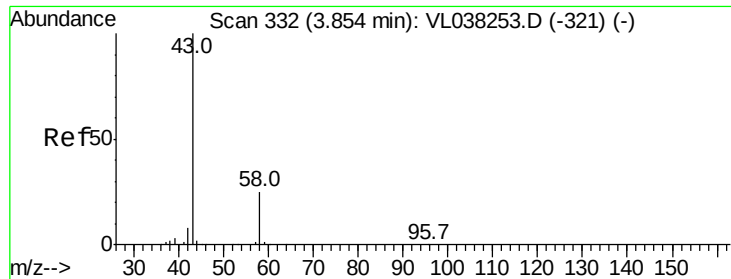
Reviewed By : Semsettin Yesilyurt 02/21/2022
 Supervised By : Mahesh Dadoda 02/21/2022



#13
 Ethanol
 Concen: 28.89 ppbv
 RT: 3.58 min Scan# 246
 Delta R.T. -0.04 min
 Lab File: VL038370.D
 Acq: 16 Feb 2022 17:25

Tgt Ion: 45 Resp: 181451
 Ion Ratio Lower Upper
 45 100
 46 38.8 15.4 61.6





#15

Acetone

Concen: 5.14 ppbv

RT: 3.83 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Feb 2022 17:25 SVP-1DUP

Tgt Ion:

Ion Ratio

43 100

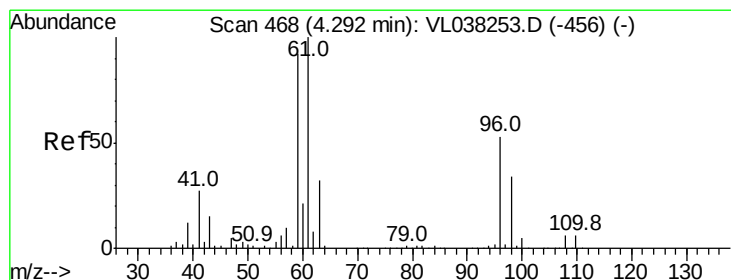
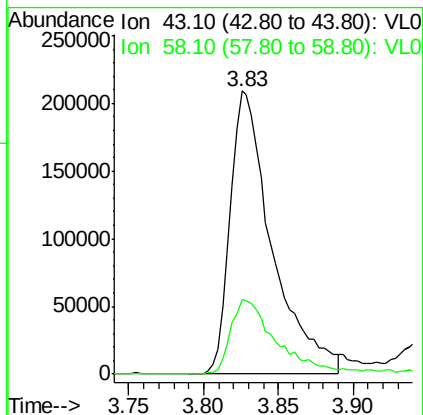
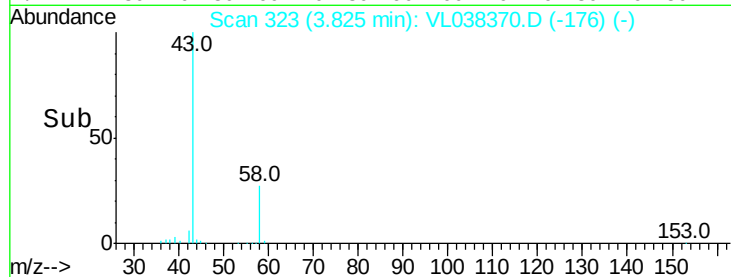
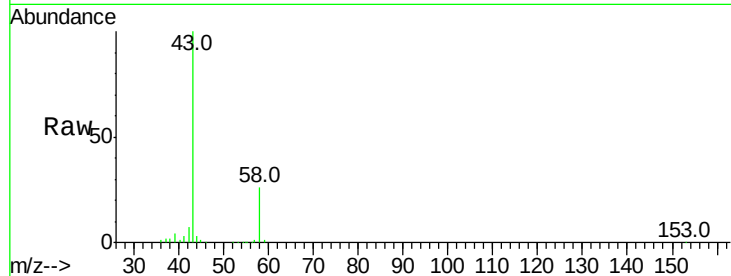
58 29.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/21/2022

Supervised By :Mahesh Dadoda 02/21/2022



#17

tert-Butyl alcohol

Concen: 0.15 ppbv m

RT: 4.28 min Scan# 463

Delta R.T. -0.02 min

Lab File: VL038370.D

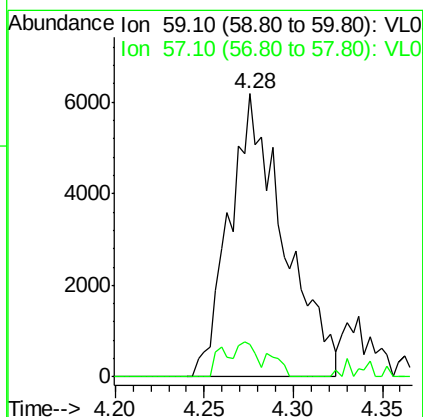
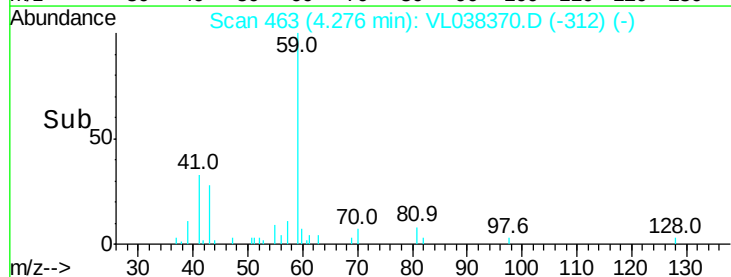
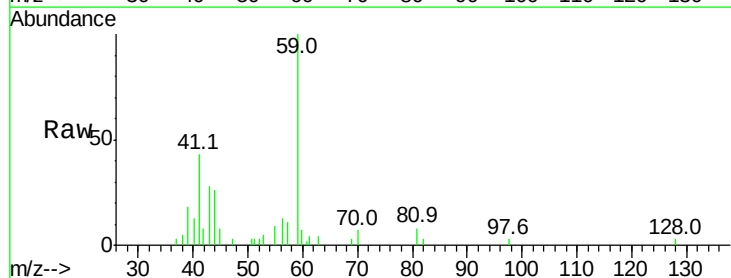
Acq: 16 Feb 2022 17:25

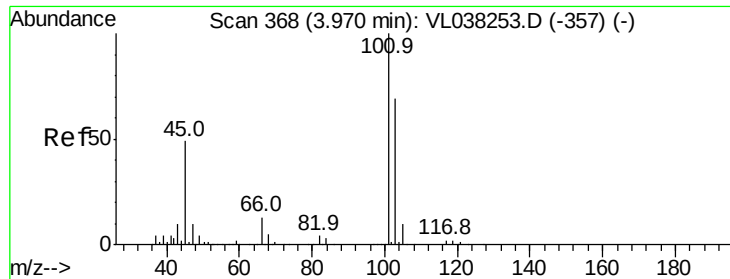
Tgt Ion: 59 Resp: 13218

Ion Ratio Lower Upper

59 100

57 0.0 9.2 13.8#



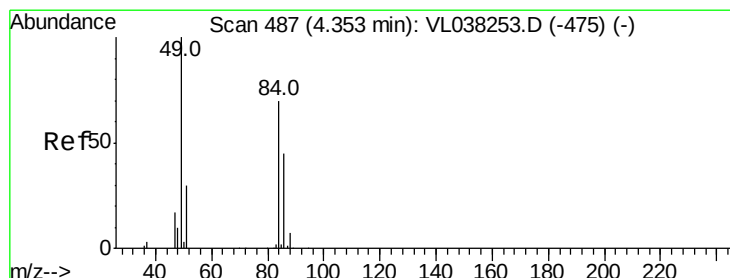
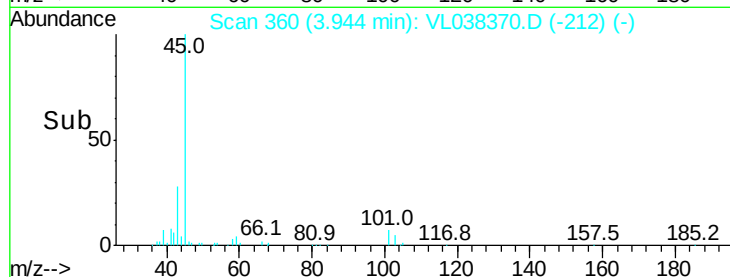
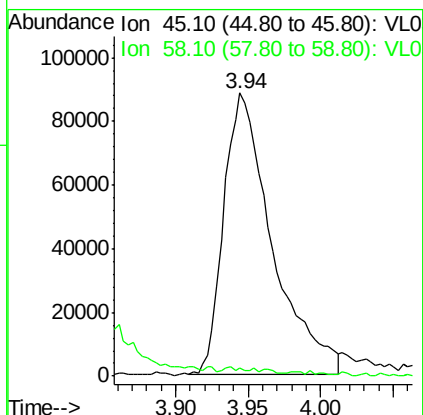
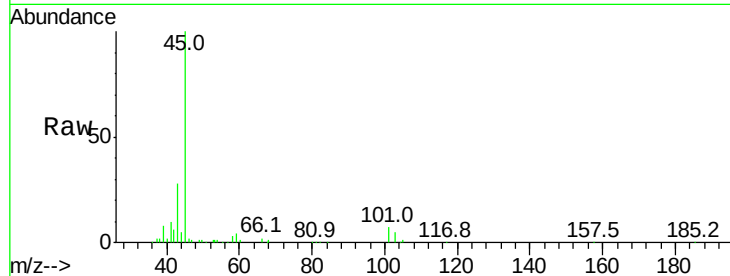


#19
Isopropyl Alcohol
Concen: 4.12 ppbv
RT: 3.94
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SVP-1DUP
Acq: 16 Feb 2022 17:25

Tgt Ion:
Ion Ratio
45 100
58 2.

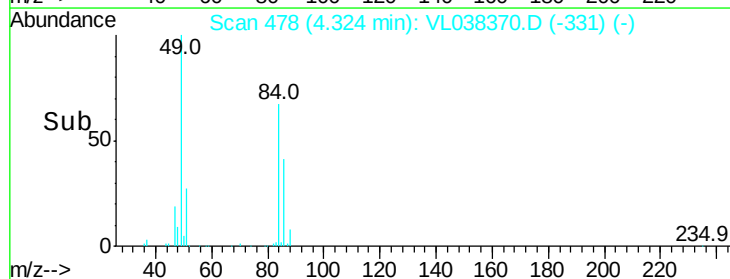
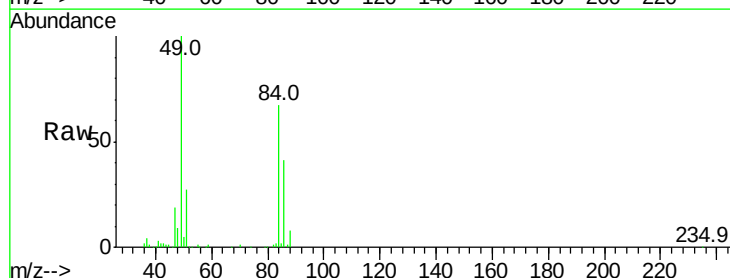
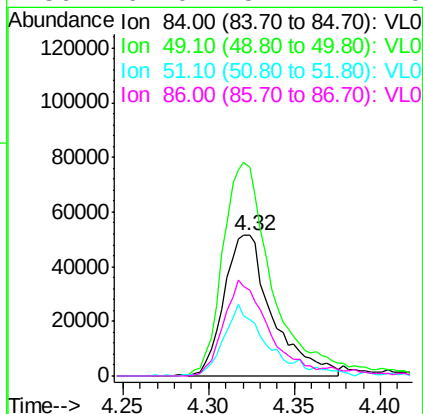
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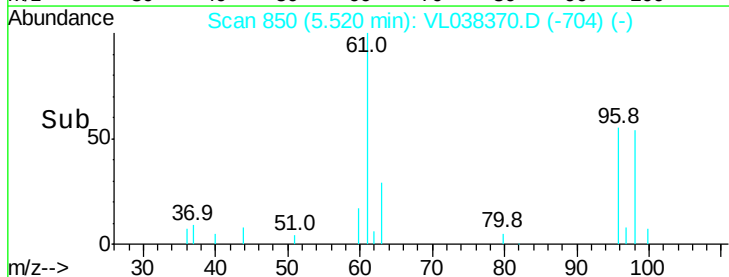
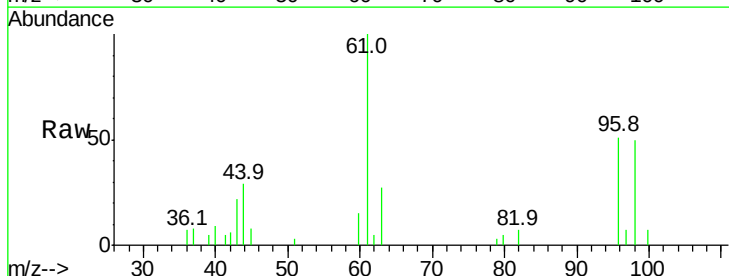
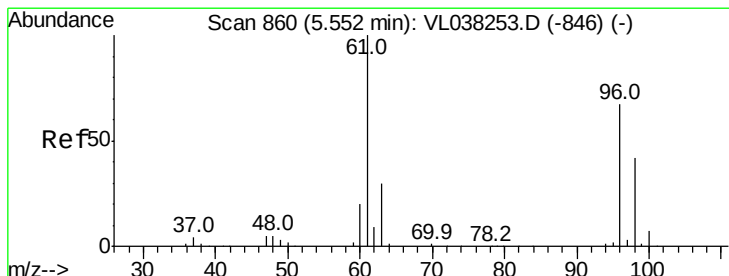
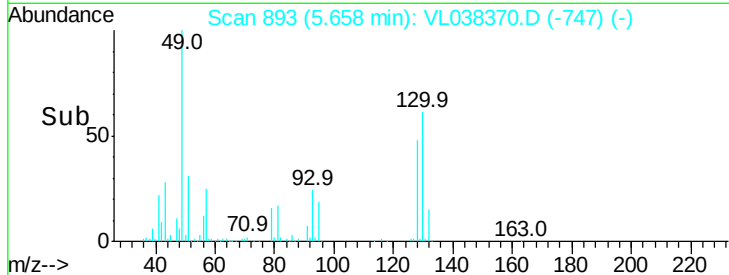
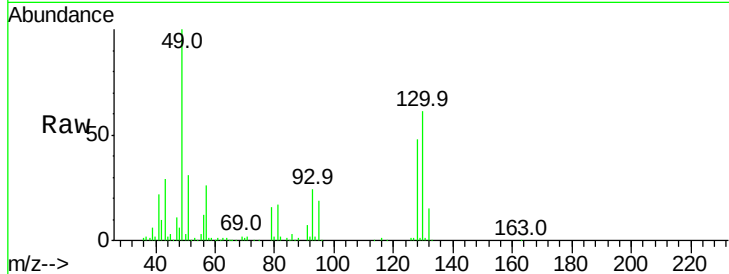
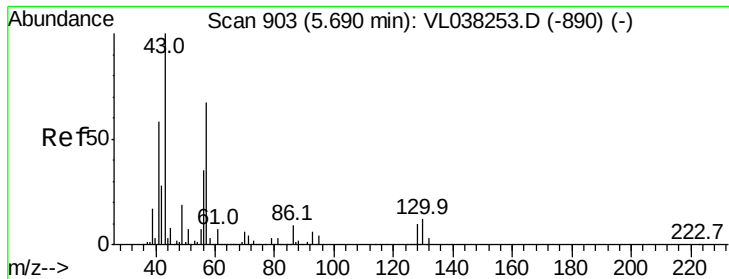
Reviewed By :Semsettin Yesilyurt 02/21/2022
Supervised By :Mahesh Dadoda 02/21/2022



#20
Methylene Chloride
Concen: 2.15 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.03 min
Lab File: VL038370.D
Acq: 16 Feb 2022 17:25

Tgt Ion: 84 Resp: 99682
Ion Ratio Lower Upper
84 100
49 147.5 115.0 172.6
51 39.6 35.0 52.6
86 61.0 51.4 77.0



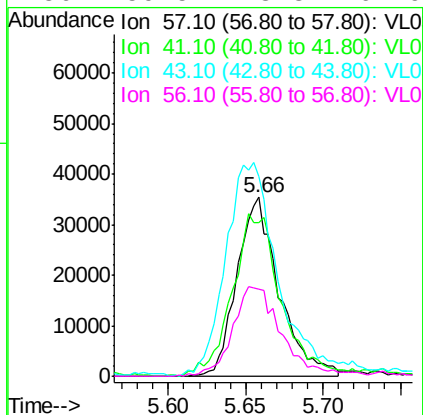


#26
Hexane
Concen: 0.65 ppbv
RT: 5.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Feb 2022 17:25

Tgt Ion: 57
Ion Ratio: 100
41 108.
43 157.
56 59.5 43.3 64.9

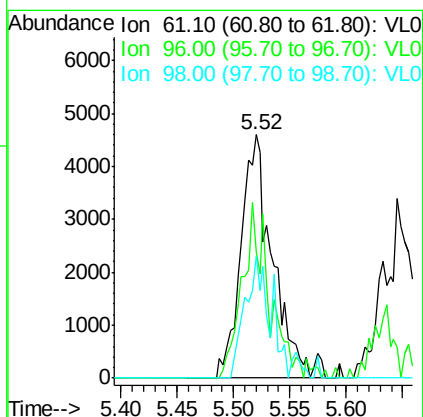
Manual Integrations
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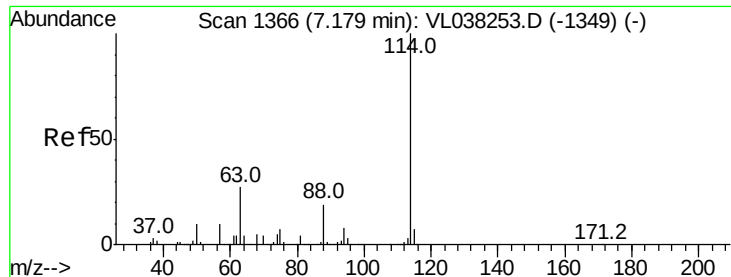
Reviewed By :Semsettin Yesilyurt 02/21/2022
Supervised By :Mahesh Dadoda 02/21/2022



#31
cis-1,2-Dichloroethene
Concen: 0.10 ppbv m
RT: 5.52 min Scan# 850
Delta R.T. -0.03 min
Lab File: VL038370.D
Acq: 16 Feb 2022 17:25

Tgt Ion: 61 Resp: 9002
Ion Ratio Lower Upper
61 100
96 51.5 53.3 79.9#
98 50.3 33.7 50.5





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.14

Instrument: MSVOA_L

Delta R.T.:

Lab File: ClientSampleId:

Acq: 16 Feb 2022 17:25

Tgt Ion: 1

Ion Ratio

114 100

63 25.

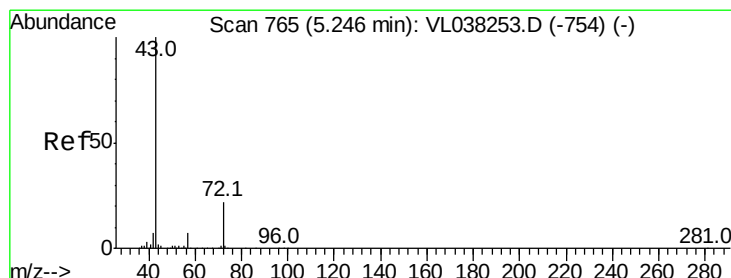
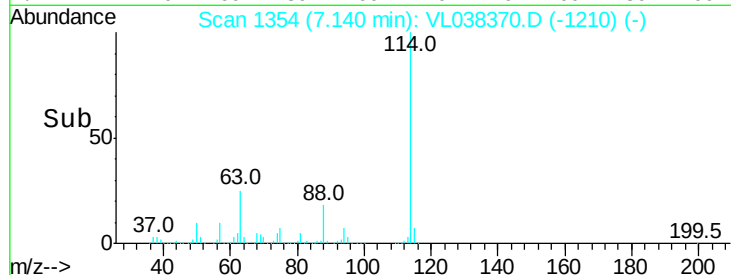
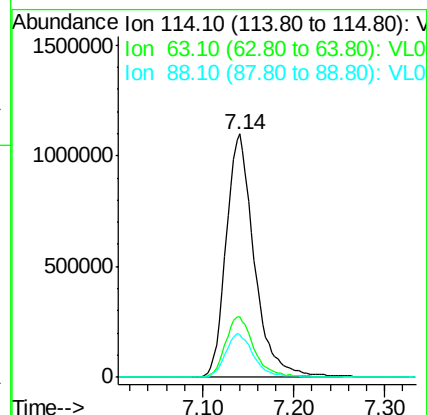
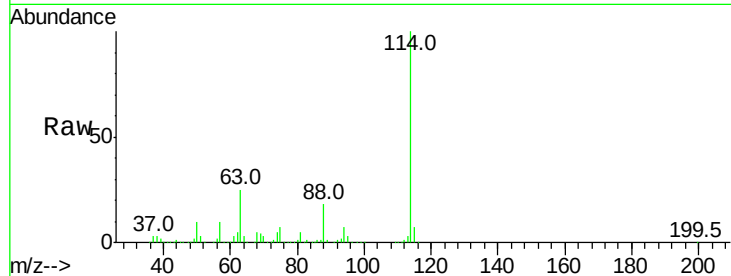
88 18.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/21/2022

Supervised By :Mahesh Dadoda 02/21/2022



#34

2-Butanone

Concen: 1.08 ppbv

RT: 5.22 min Scan# 757

Delta R.T. -0.03 min

Lab File: VL038370.D

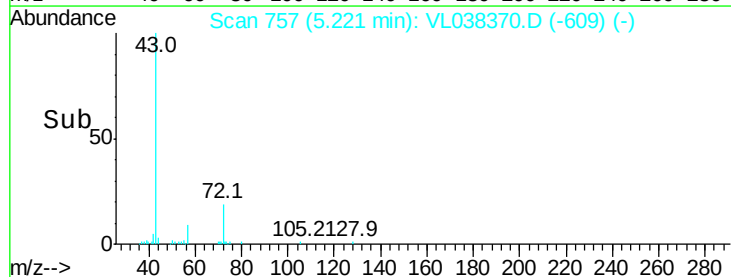
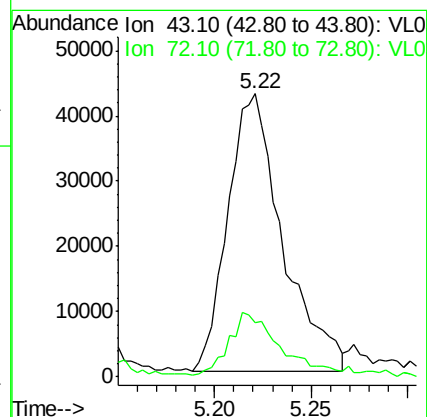
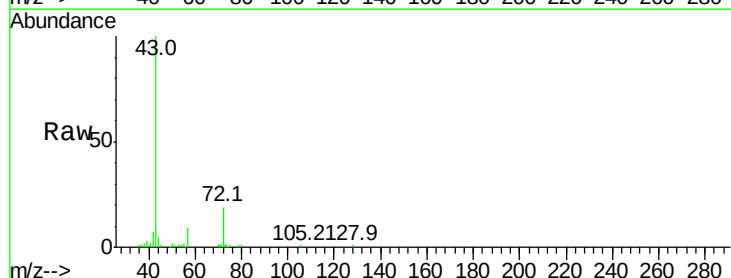
Acq: 16 Feb 2022 17:25

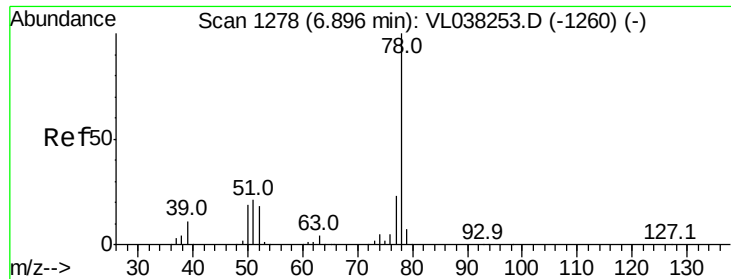
Tgt Ion: 43 Resp: 83708

Ion Ratio Lower Upper

43 100

72 25.0 18.1 27.1





#36

Benzene

Concen: 0.15 ppbv

RT: 6.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Feb 2022 SVP-1DUP

Tgt Ion:

Ion Ratio

78 100

77 20.

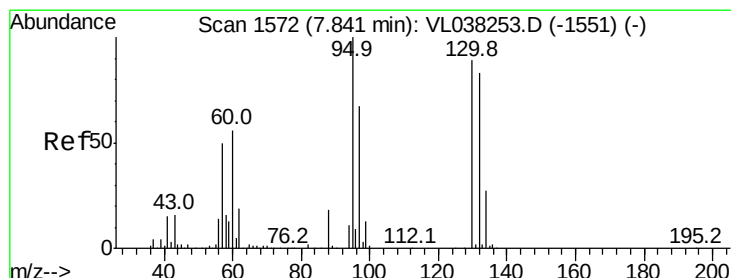
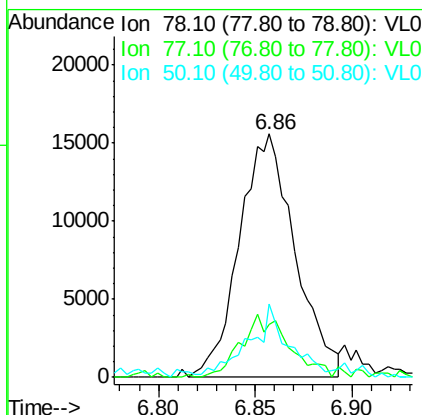
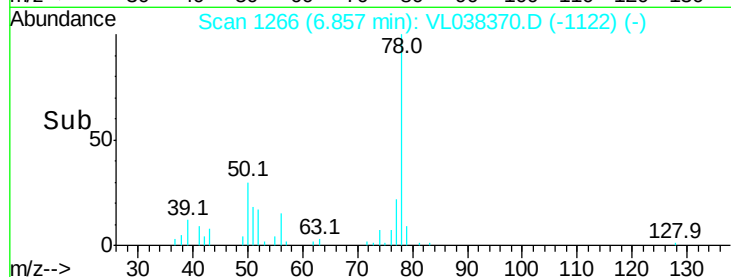
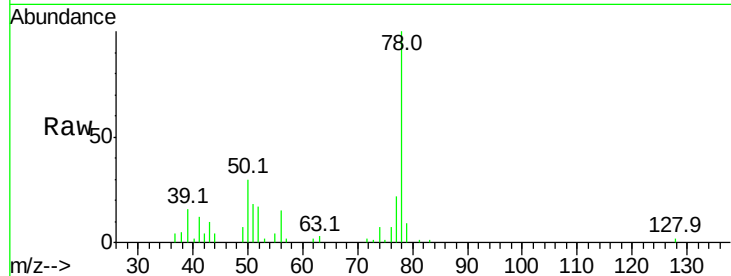
50 27.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/21/2022

Supervised By :Mahesh Dadoda 02/21/2022



#38

Trichloroethene

Concen: 0.95 ppbv

RT: 7.80 min Scan# 1560

Delta R.T. -0.04 min

Lab File: VL038370.D

Acq: 16 Feb 2022 17:25

Tgt Ion:130 Resp: 74216

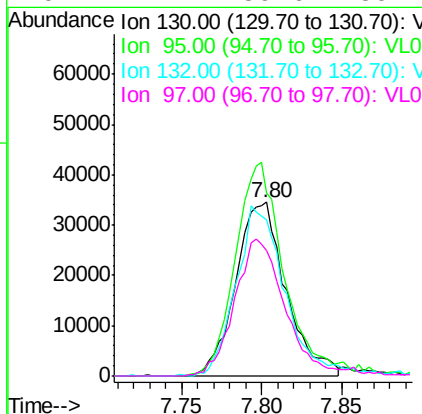
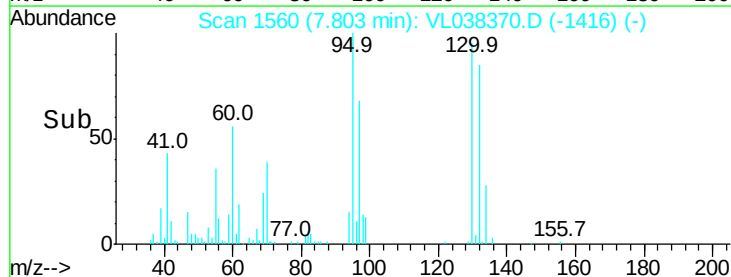
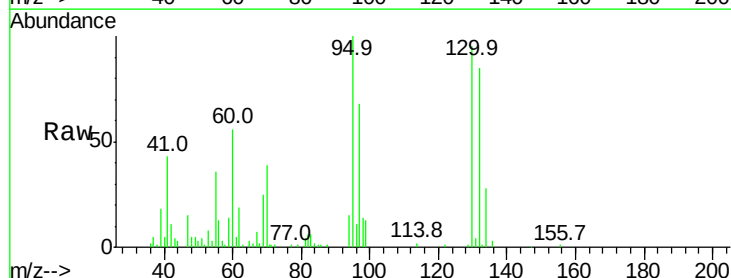
Ion Ratio Lower Upper

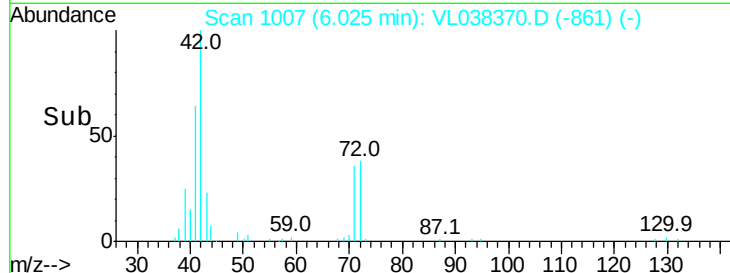
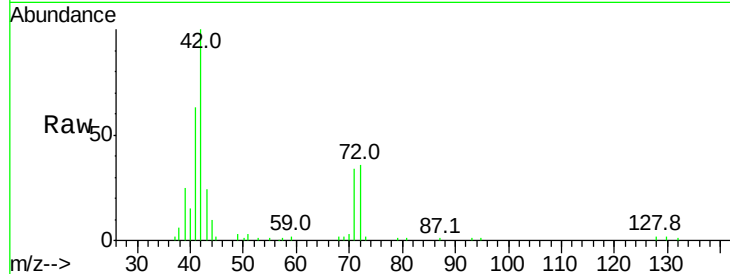
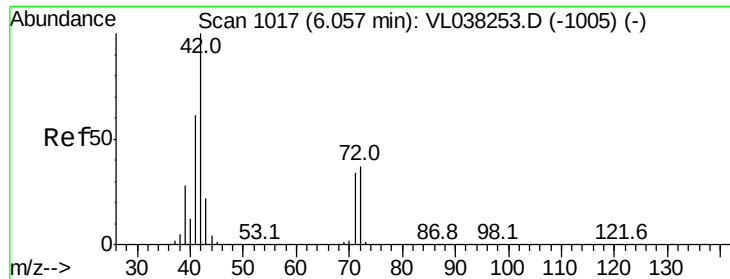
130 100

95 104.8 89.4 134.2

132 89.9 74.6 111.8

97 71.1 59.6 89.4





#41

Tetrahydrofuran

Concen: 1.56 ppbv

RT: 6.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Feb 2022 17:25

Tgt Ion:

Ion Ratio

42 100

72 41.

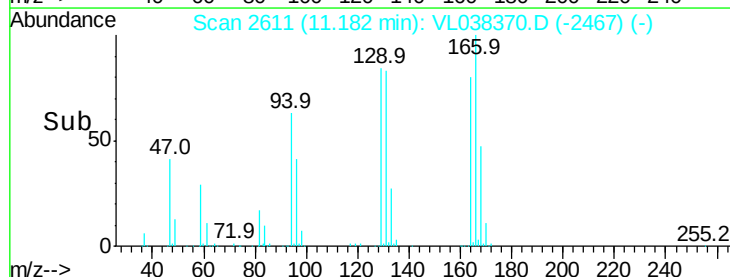
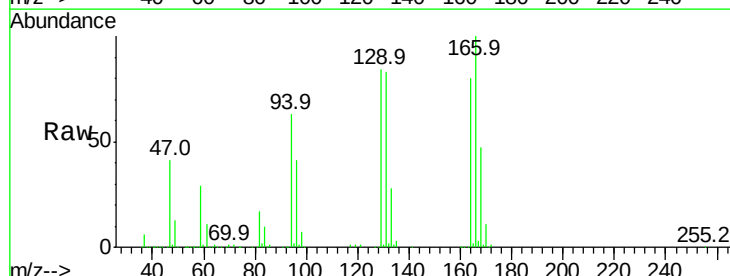
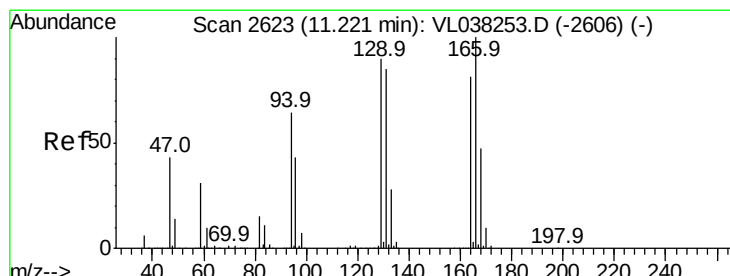
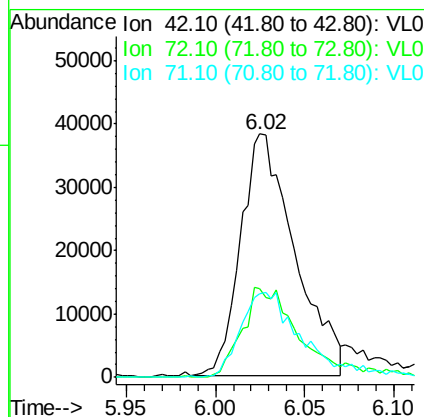
71 40.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/21/2022

Supervised By :Mahesh Dadoda 02/21/2022



#52

Tetrachloroethene

Concen: 6.23 ppbv

RT: 11.18 min Scan# 2611

Delta R.T. -0.04 min

Lab File: VL038370.D

Acq: 16 Feb 2022 17:25

Tgt Ion:164 Resp: 448483

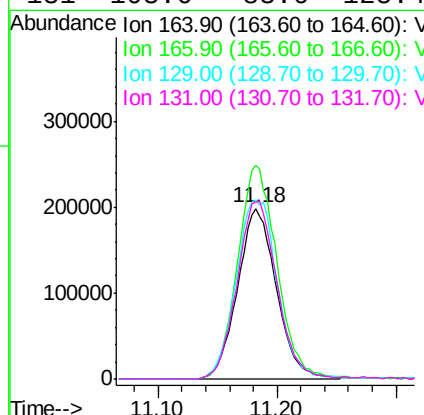
Ion Ratio Lower Upper

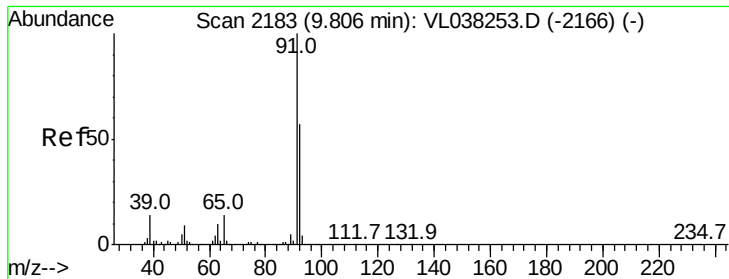
164 100

166 125.3 98.8 148.2

129 105.4 89.2 133.8

131 103.6 83.6 125.4



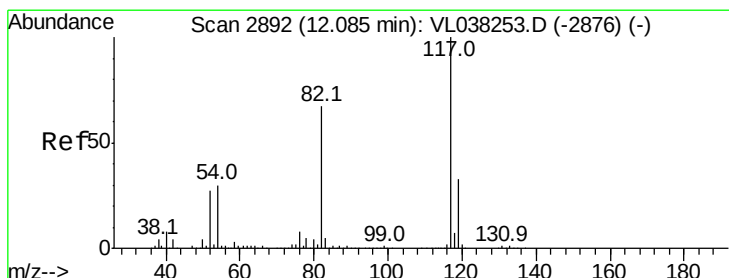
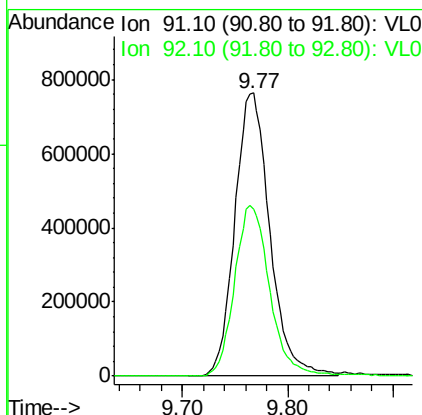
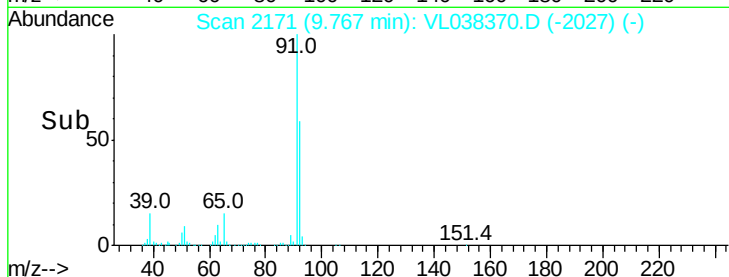
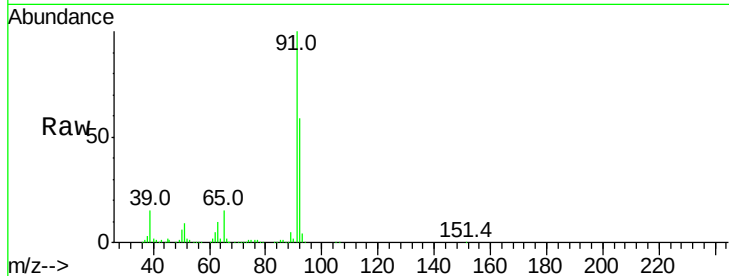


#53
Toluene
Concen: 7.61 ppbv
RT: 9.77
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Feb 2022 17:25

Tgt Ion:
Ion Ratio
91 100
92 61.

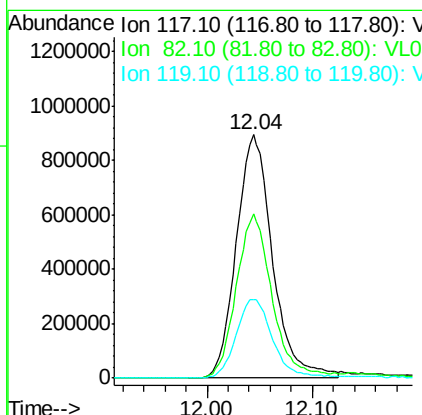
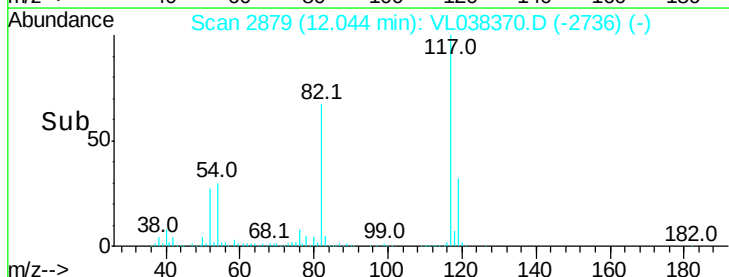
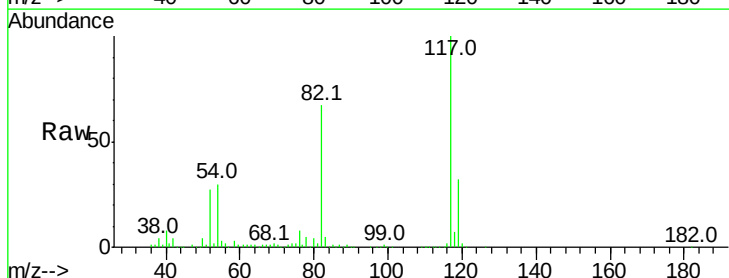
Manual Integrations
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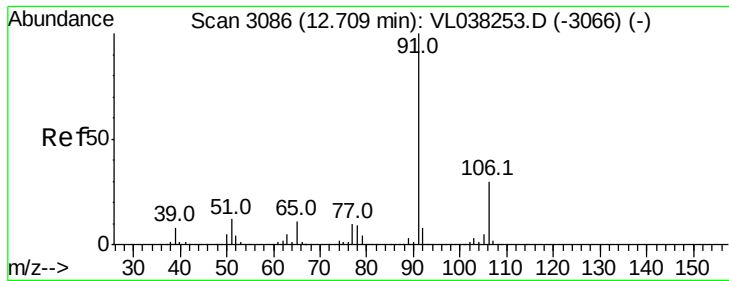
Reviewed By :Semsettin Yesilyurt 02/21/2022
Supervised By :Mahesh Dadoda 02/21/2022



#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.04 min Scan# 2879
Delta R.T. -0.04 min
Lab File: VL038370.D
Acq: 16 Feb 2022 17:25

Tgt Ion:117 Resp: 2135863
Ion Ratio Lower Upper
117 100
82 70.6 54.4 81.6
119 34.1 45.9 68.9#



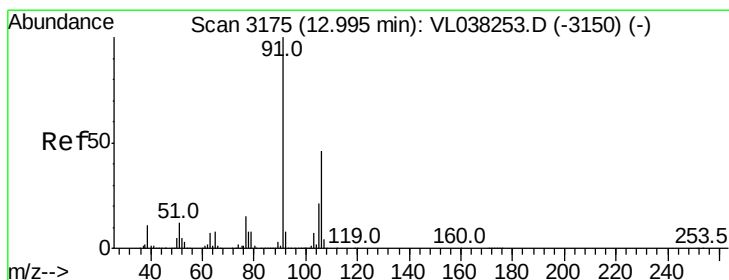
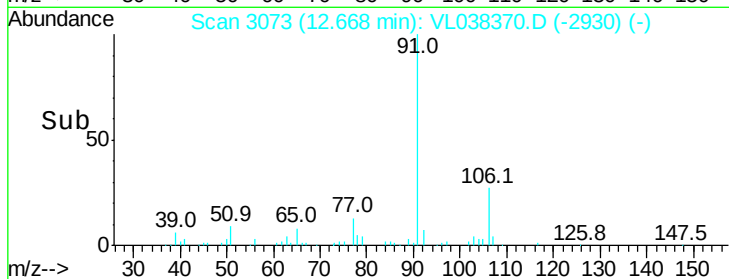
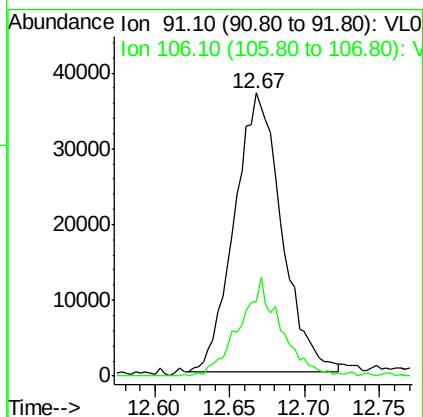
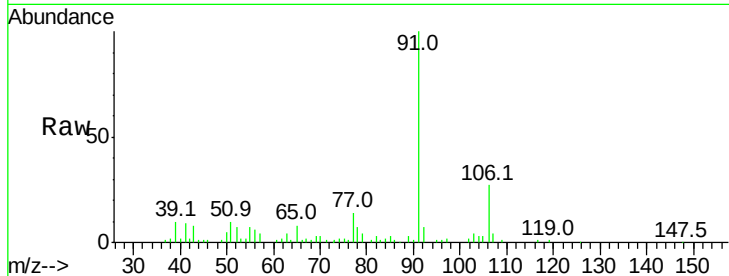


#58
Ethyl Benzene
Concen: 0.26 ppbv
RT: 12.67
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Feb 2022 17:25

Tgt Ion:
Ion Ratio
91 100
106 26.

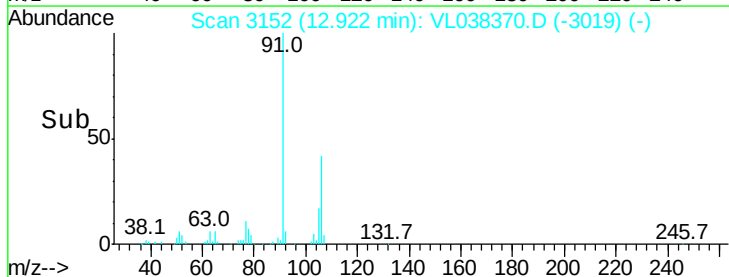
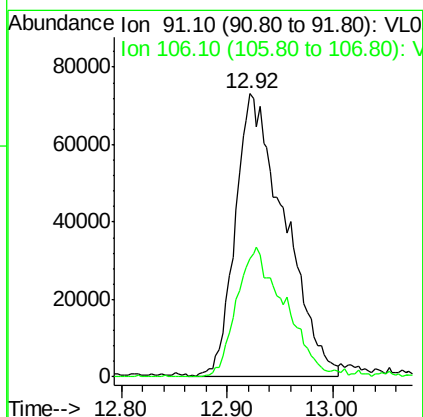
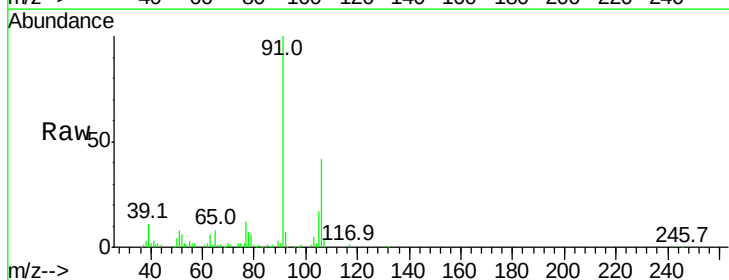
Manual Integrations
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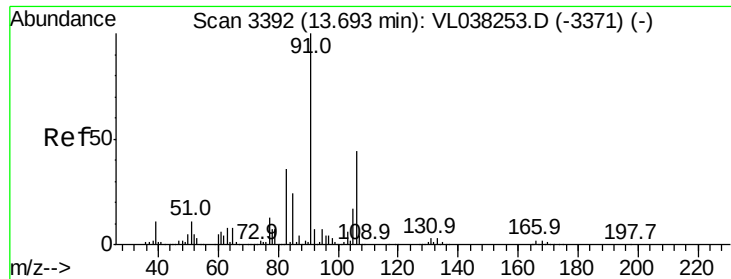
Reviewed By :Semsettin Yesilyurt 02/21/2022
Supervised By :Mahesh Dadoda 02/21/2022



#59
m/p-Xylene
Concen: 0.88 ppbv
RT: 12.92 min Scan# 3152
Delta R.T. -0.07 min
Lab File: VL038370.D
Acq: 16 Feb 2022 17:25

Tgt Ion: 91 Resp: 236836
Ion Ratio Lower Upper
91 100
106 46.4 34.8 52.2



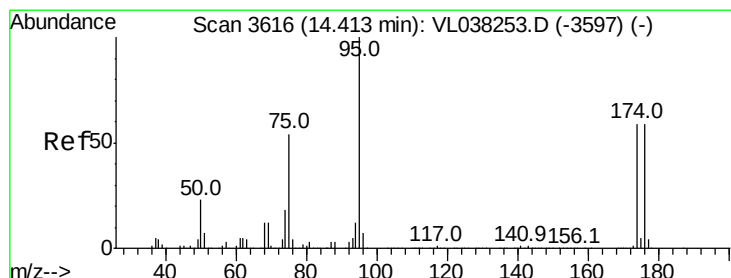
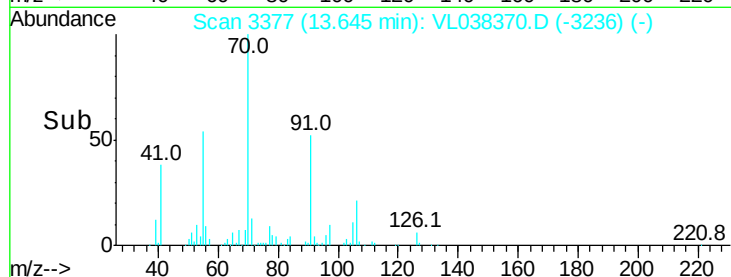
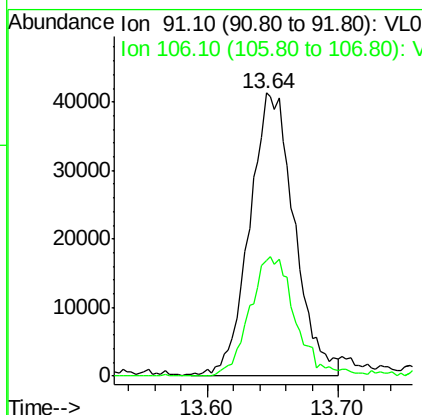
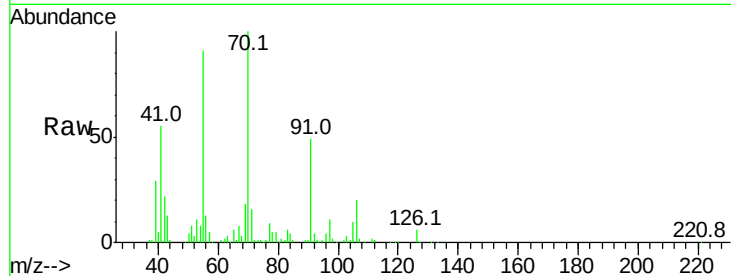


#60
o-Xylene
Concen: 0.39 ppbv m
RT: 13.64
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Feb 2022 17:25

Tgt Ion:
Ion Ratio
91 100
106 43.

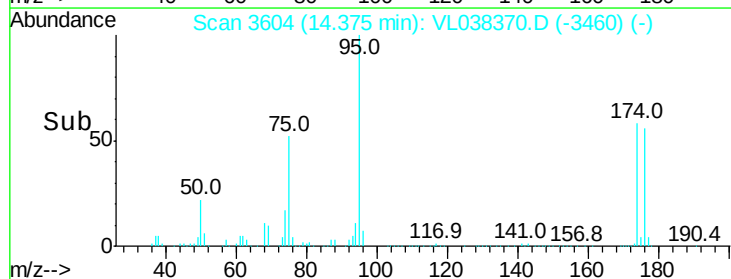
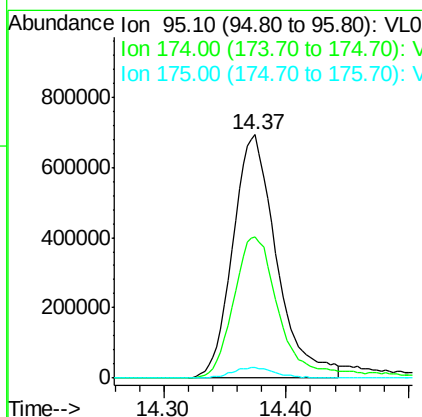
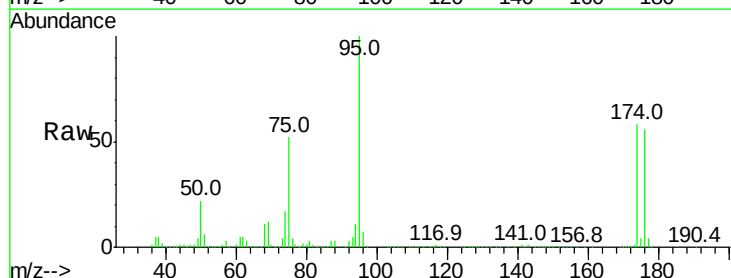
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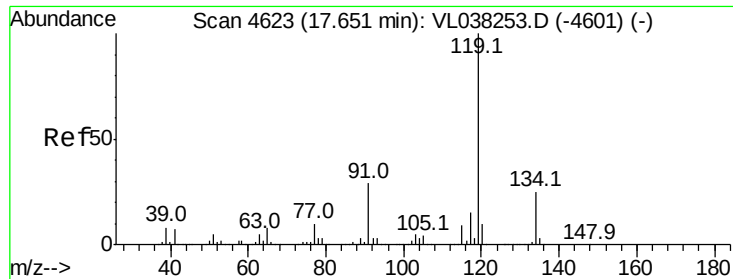
Reviewed By :Semsettin Yesilyurt 02/21/2022
Supervised By :Mahesh Dadoda 02/21/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.55 ppbv
RT: 14.37 min Scan# 3604
Delta R.T. -0.04 min
Lab File: VL038370.D
Acq: 16 Feb 2022 17:25

Tgt Ion: 95 Resp: 1710276
Ion Ratio Lower Upper
95 100
174 63.2 48.3 72.5
175 4.6 3.5 5.3



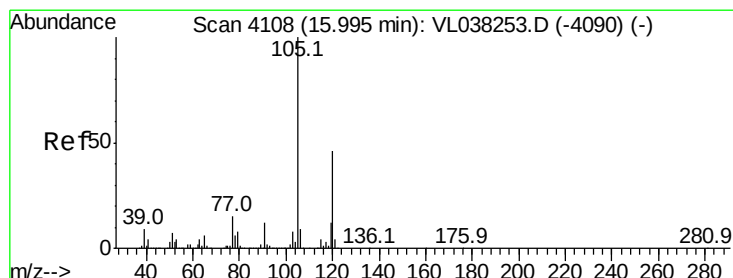
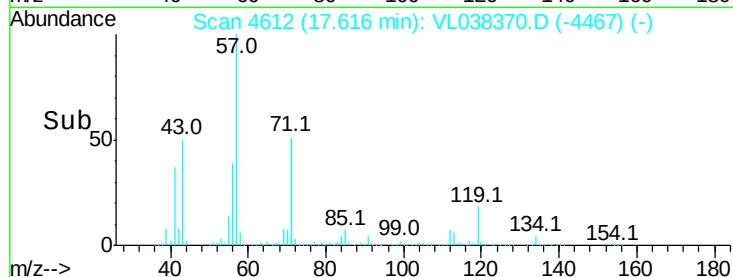
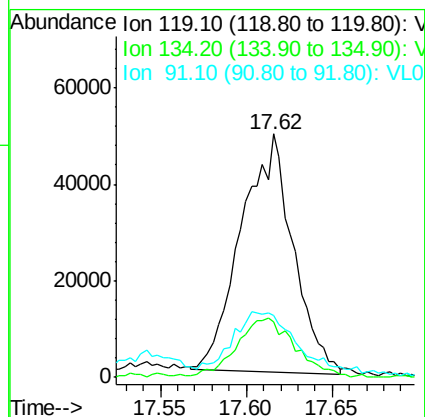
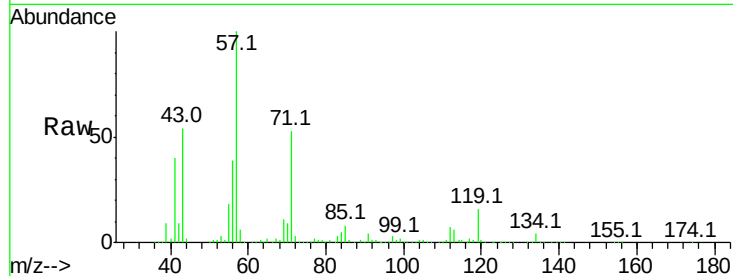


#69
 p-Isopropyltoluene
 Concen: 0.36 ppbv
 RT: 17.62
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Feb 2022 17:25

Tgt Ion:1
 Ion Rati
 119 100
 134 28.
 91 36.

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/21/2022
 Supervised By :Mahesh Dadoda 02/21/2022



#73
 1,3,5-Trimethylbenzene
 Concen: 0.15 ppbv m
 RT: 15.95 min Scan# 4094
 Delta R.T. -0.04 min
 Lab File: VL038370.D
 Acq: 16 Feb 2022 17:25

Tgt Ion:105 Resp: 34379
 Ion Ratio Lower Upper
 105 100
 120 38.4 36.6 55.0

