

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033022\
 Data File : VL038799.D
 Acq On : 30 Mar 2022 18:03
 Operator : SY/AP
 Sample : N2169-01DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV1DL

Manual Integrations
 APPROVED

Quant Time: Mar 31 04:40:47 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 04/02/2022
 Supervised By :Mahesh Dadoda 04/04/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	954739	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2678032	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2397635	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1706995	9.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	102487	0.799	ppbv 97
4) Chloromethane	3.14	50	9021	0.163	ppbv # 88
9) Propene	3.01	41	541517	11.124	ppbv 94
10) Heptane	8.12	43	63425	0.545	ppbv # 26
13) Ethanol	3.60	45	174309	32.459	ppbv 98
15) Acetone	3.84	43	3534191	42.900	ppbv 94
16) 1,3-Butadiene	3.31	39	326105	6.975	ppbv # 39
17) tert-Butyl alcohol	4.29	59	125969	1.751	ppbv # 94
19) Isopropyl Alcohol	3.96	45	123832	2.711	ppbv # 91
20) Methylene Chloride	4.34	84	28208	0.813	ppbv 98
26) Hexane	5.68	57	271485	2.924	ppbv # 32
27) Carbon Disulfide	4.55	76	333716	3.664	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	7905m	0.114	ppbv
30) Cyclohexane	7.12	84	22447	0.278	ppbv # 24
32) 1,1,1-Trichloroethane	6.51	97	15315m	0.107	ppbv
34) 2-Butanone	5.24	43	447138	4.218	ppbv 94
36) Benzene	6.88	78	368059	1.781	ppbv 97
44) 2,2,4-Trimethylpentane	7.86	57	921765	2.656	ppbv # 89
50) 4-Methyl-2-Pentanone	8.74	43	138165	0.701	ppbv 96
51) 2-Hexanone	10.12	43	205235	1.450	ppbv 96
52) Tetrachloroethene	11.21	164	60253	0.797	ppbv 95
53) Toluene	9.79	91	432701	1.948	ppbv 98
58) Ethyl Benzene	12.70	91	109866	0.392	ppbv 99
59) m/p-Xylene	12.96	91	223279	0.911	ppbv 92
60) o-Xylene	13.68	91	104603	0.449	ppbv 94
61) Styrene	13.52	104	33721	0.267	ppbv 100
62) Isopropylbenzene	14.65	105	68461	0.196	ppbv 95
72) 4-Ethyltoluene	15.82	105	27664m	0.101	ppbv
73) 1,3,5-Trimethylbenzene	15.98	105	26136m	0.104	ppbv
74) 1,2,4-Trimethylbenzene	16.75	105	75277	0.276	ppbv # 73

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

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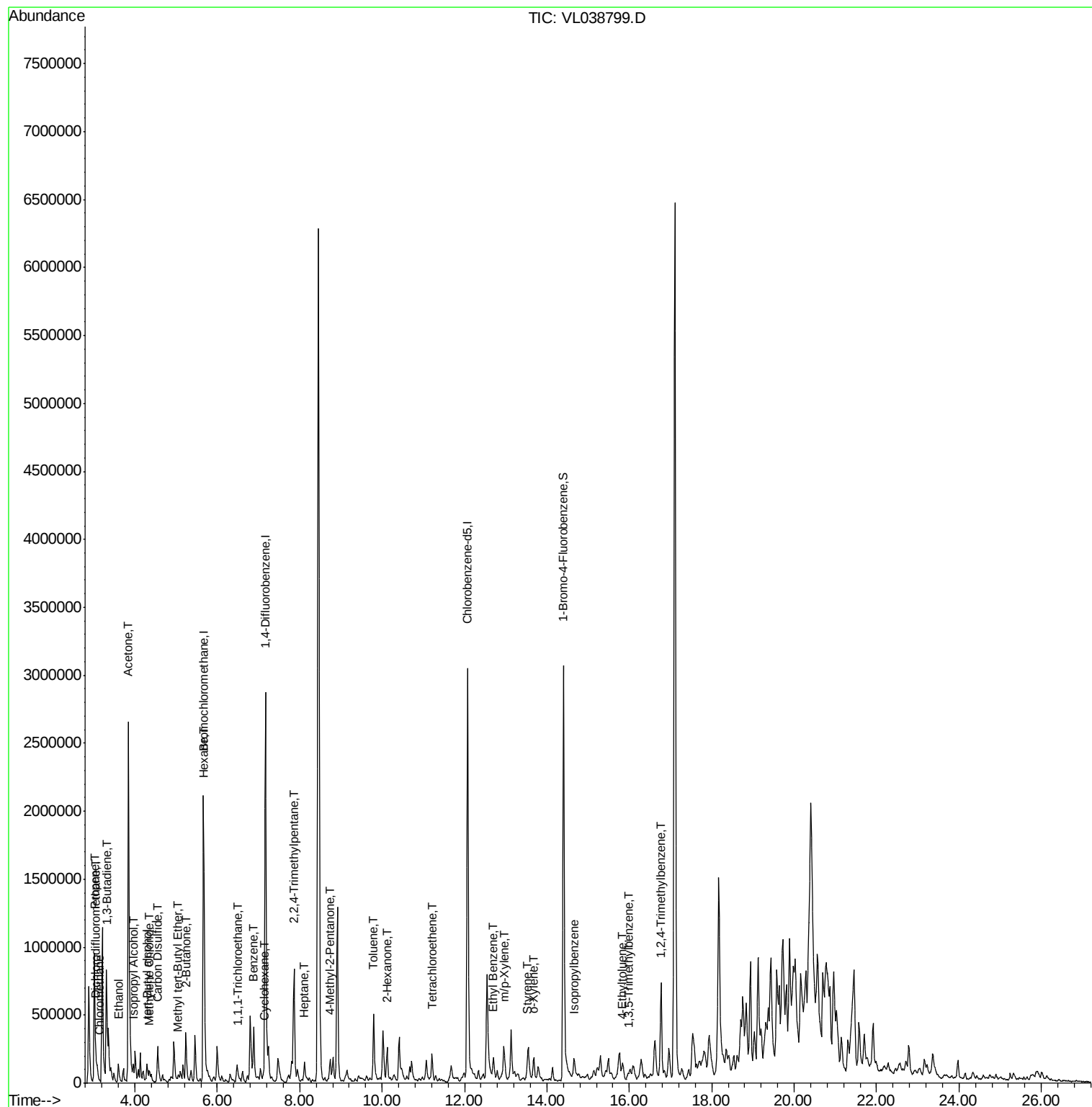
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122

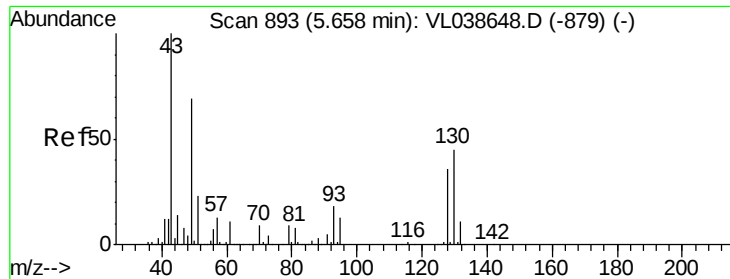
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Mar 21 17:09:26 2022

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Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Mar 2022 18:03 SV1DL

Tot Ion:

Ion Ratio

49 100

128 55.

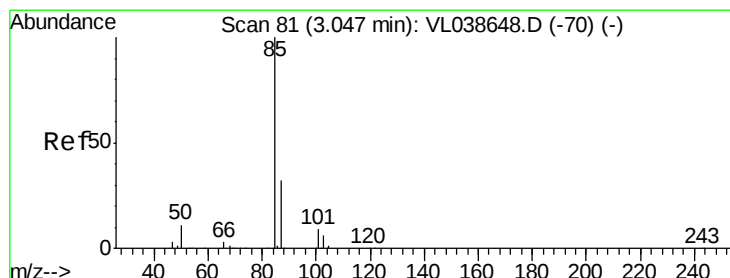
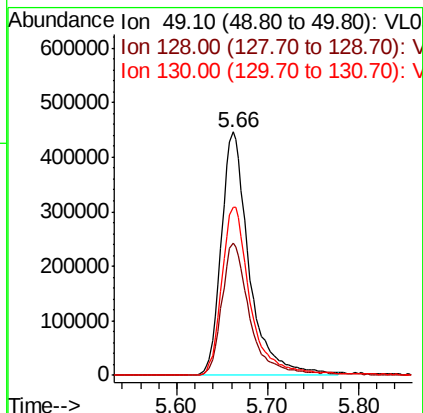
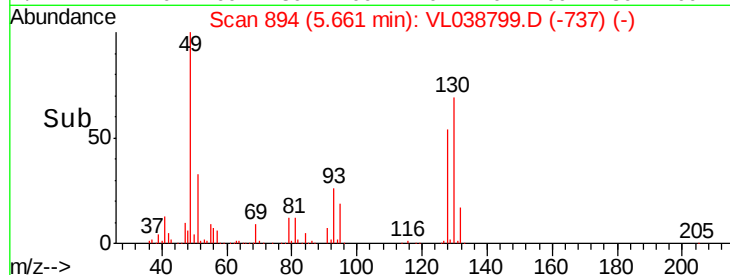
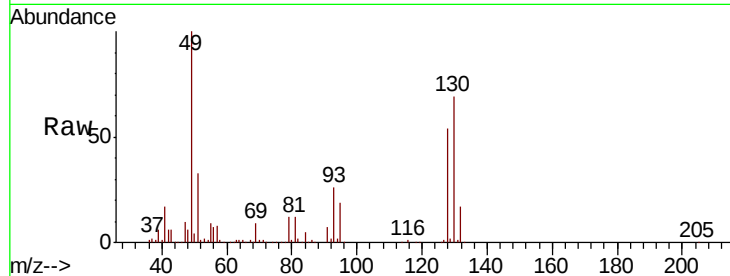
130 71.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/02/2022

Supervised By :Mahesh Dadoda 04/04/2022



#2

Dichlorodifluoromethane

Concen: 0.799 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038799.D

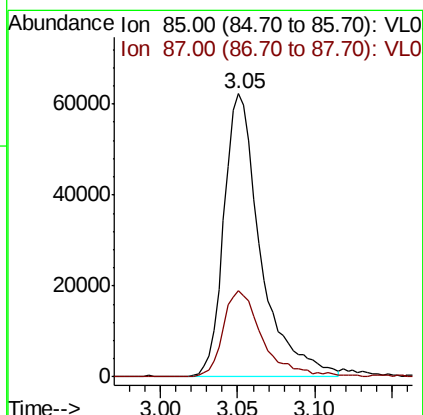
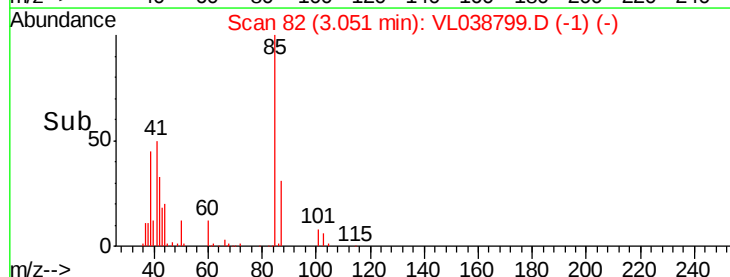
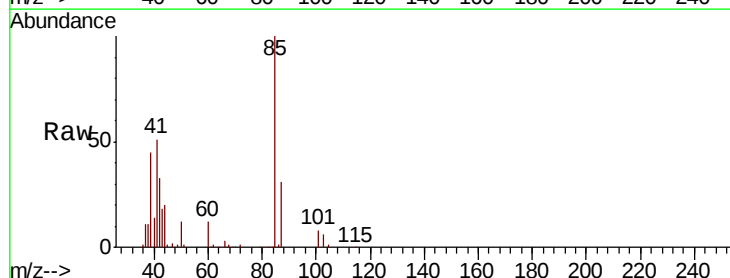
Acq: 30 Mar 2022 18:03

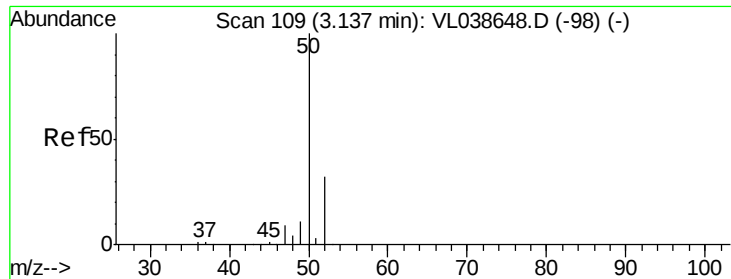
Tgt Ion: 85 Resp: 102487

Ion Ratio Lower Upper

85 100

87 30.6 26.0 39.0





#4

Chloromethane

Concen: 0.163 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Mar 2022 18:03 SV1DL

Tot Ion:

Ion Ratio

50 100

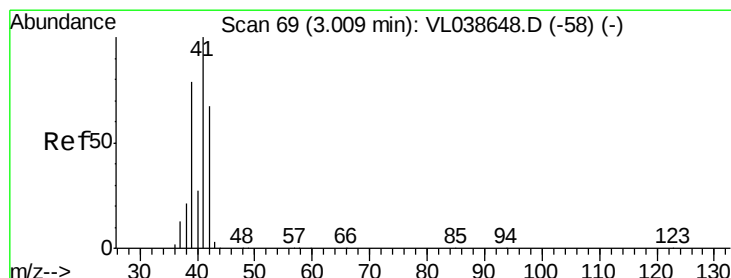
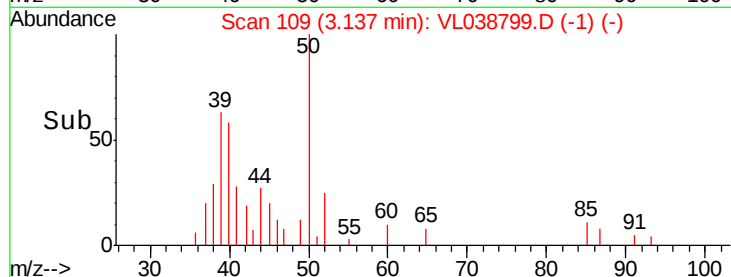
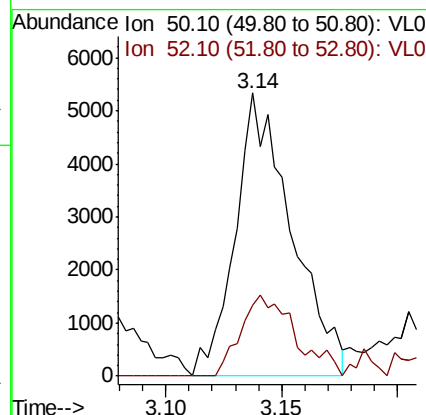
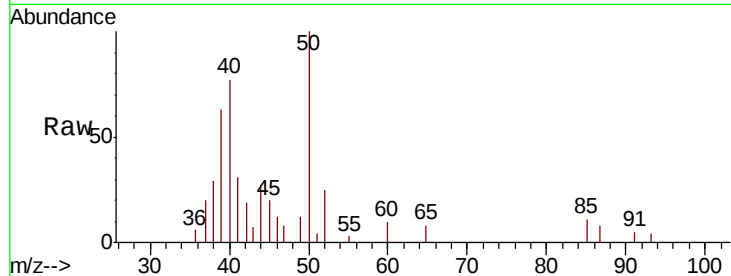
52 25.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/02/2022

Supervised By :Mahesh Dadoda 04/04/2022



#9

Propene

Concen: 11.124 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL038799.D

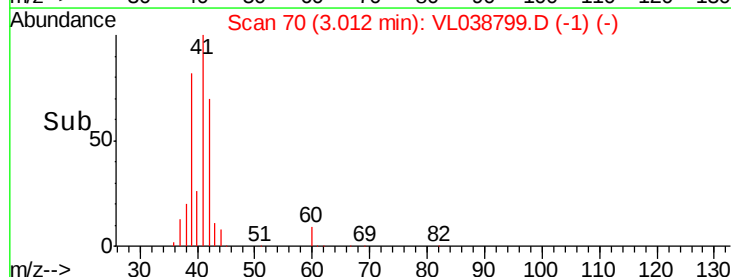
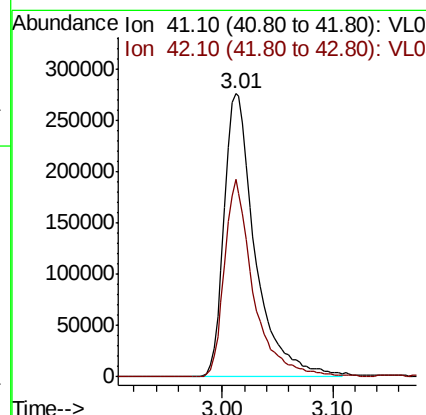
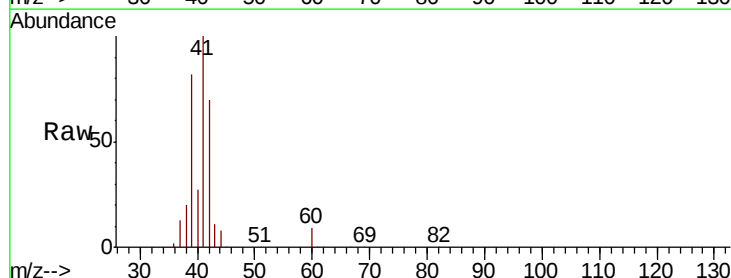
Acq: 30 Mar 2022 18:03

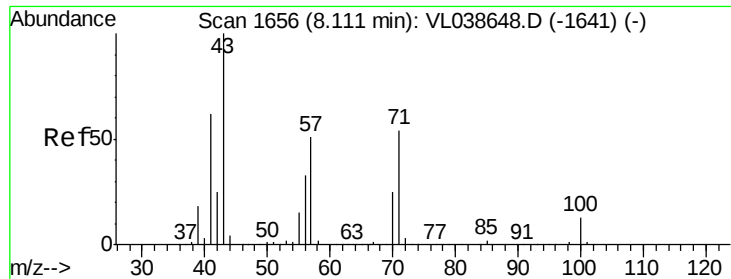
Tgt Ion: 41 Resp: 541517

Ion Ratio Lower Upper

41 100

42 65.0 56.2 84.4



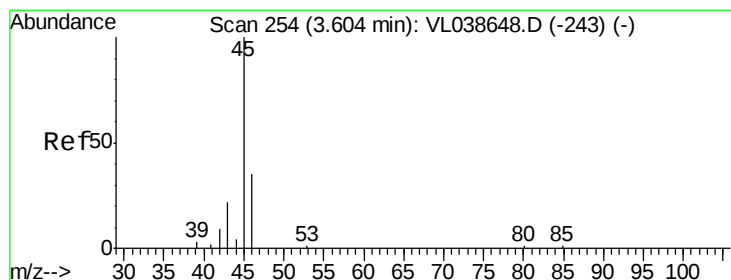
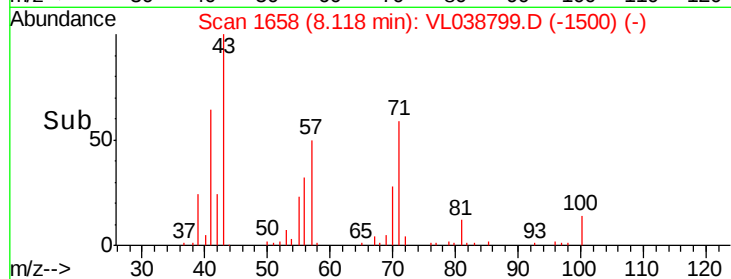
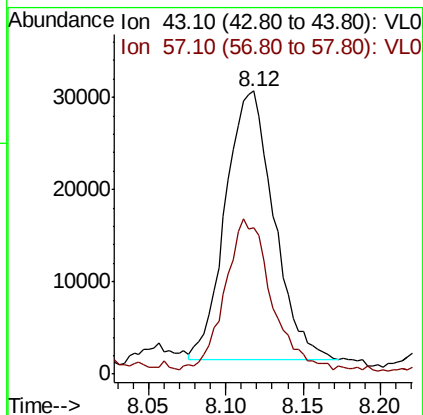
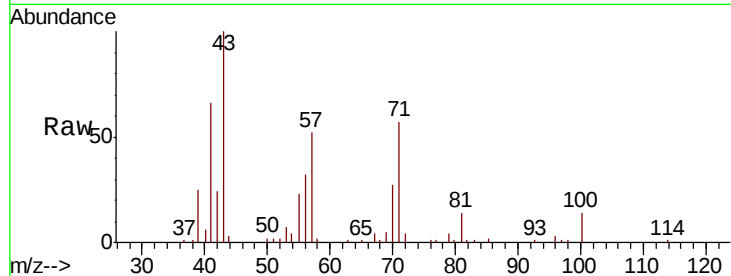


#10
Heptane
Concen: 0.545 ppbv
RT: 8.12
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1DL
Acq: 30 Mar 2022 18:03

Tot Ion:
Ion Ratio
43 100
57 0.

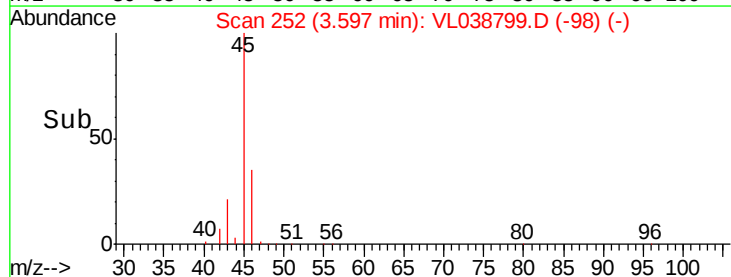
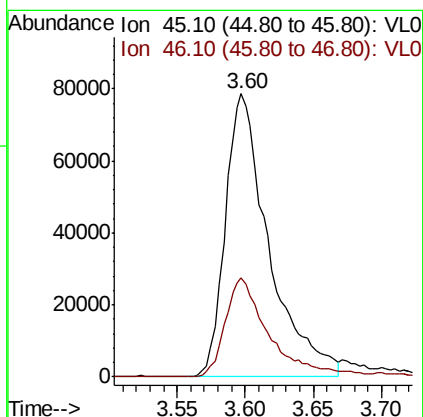
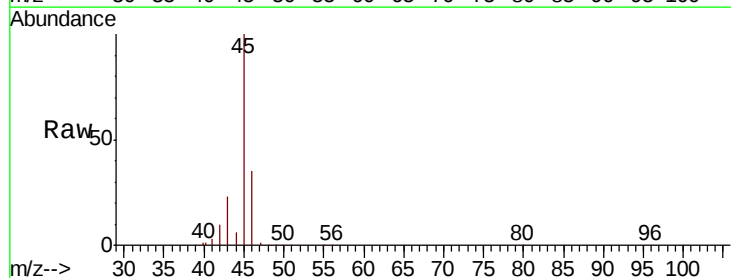
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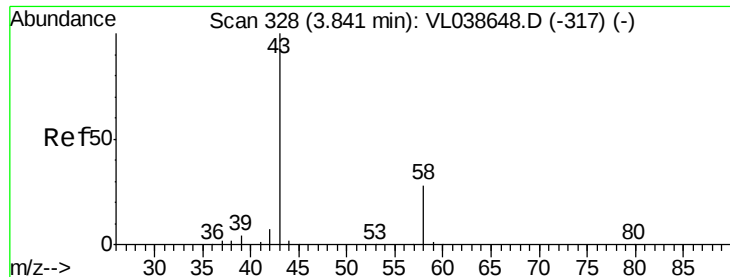
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#13
Ethanol
Concen: 32.459 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL038799.D
Acq: 30 Mar 2022 18:03

Tgt Ion: 45 Resp: 174309
Ion Ratio Lower Upper
45 100
46 36.6 15.1 60.5





#15

Acetone

Concen: 42.900 ppbv

RT: 3.84

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 30 Mar 2022 18:03

Tot Ion:

Ion Ratio

43 100

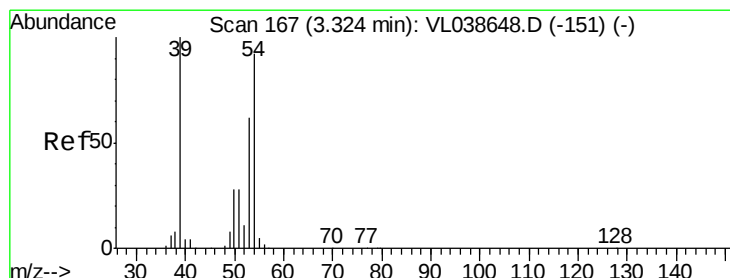
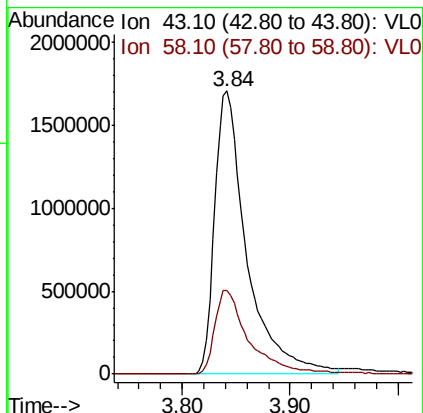
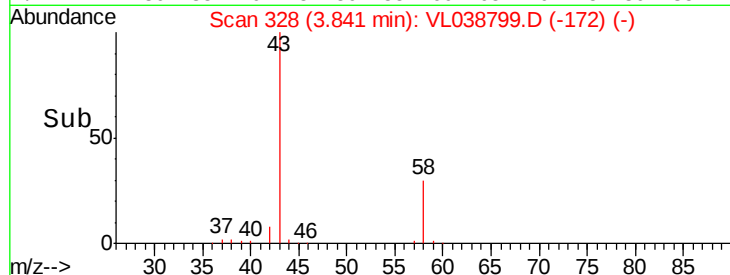
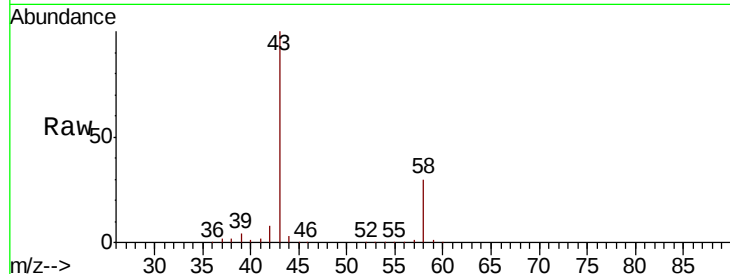
58 32.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/02/2022

Supervised By :Mahesh Dadoda 04/04/2022



#16

1,3-Butadiene

Concen: 6.975 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.02 min

Lab File: VL038799.D

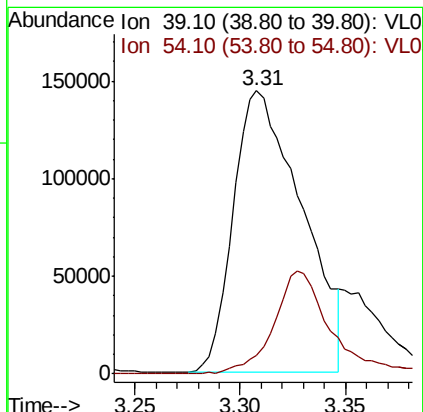
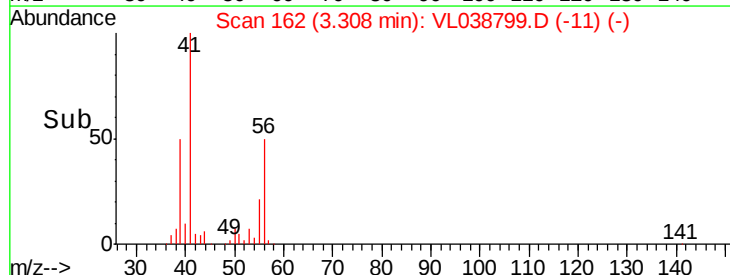
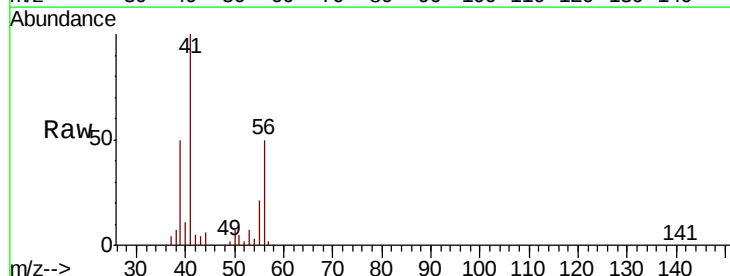
Acq: 30 Mar 2022 18:03

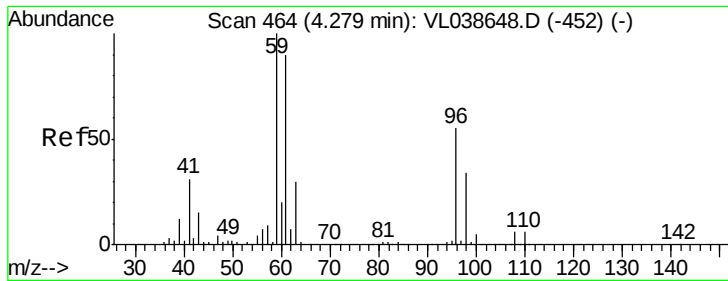
Tgt Ion: 39 Resp: 326105

Ion Ratio Lower Upper

39 100

54 30.4 69.1 103.7#



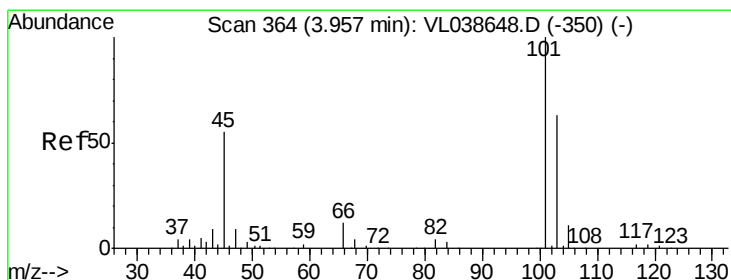
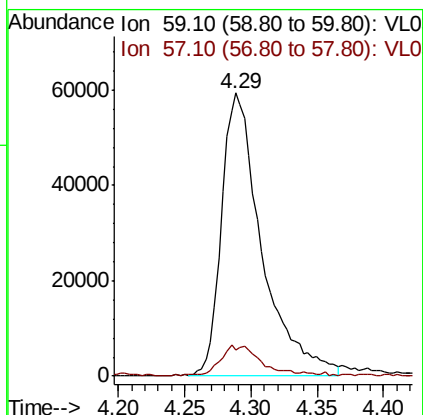
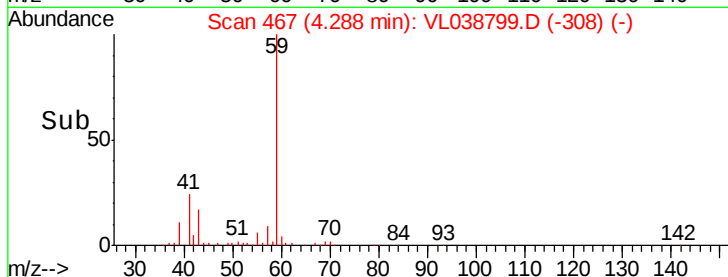
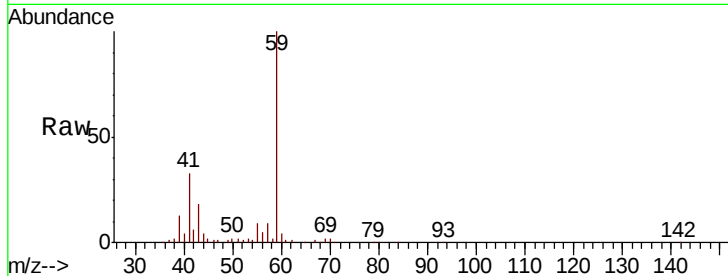


#17
tert-Butyl alcohol
Concen: 1.751 ppbv
RT: 4.29
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
SV1DL
Acq: 30 Mar 2022 18:03

Tot Ion:
Ion Ratio
59 100
57 12.

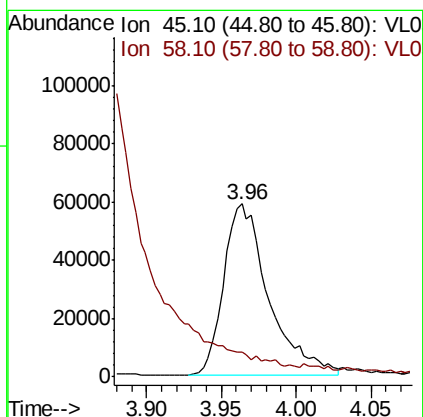
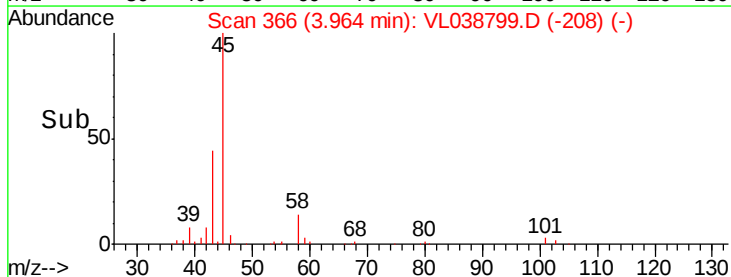
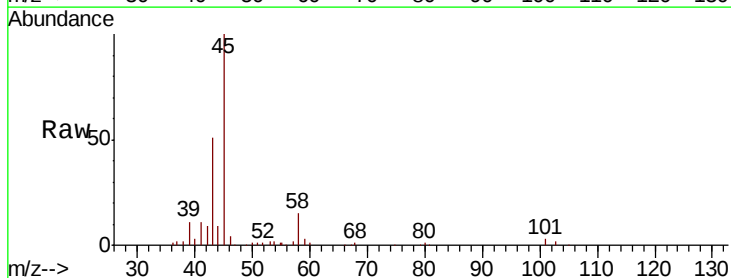
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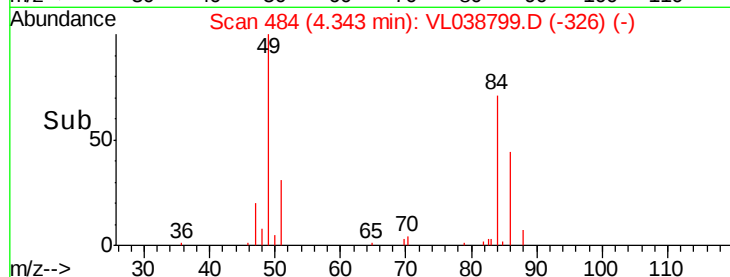
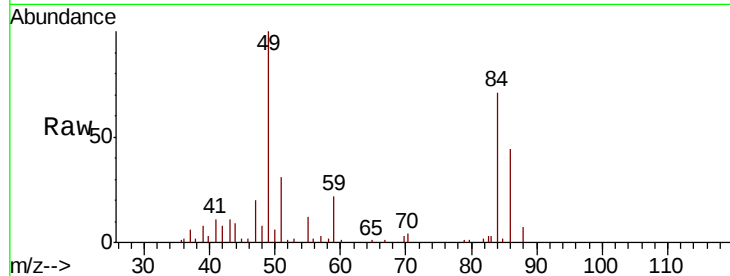
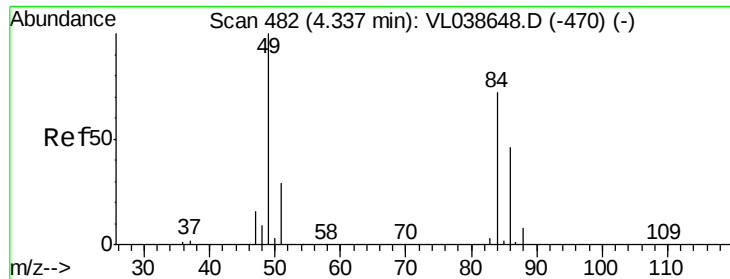
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#19
Isopropyl Alcohol
Concen: 2.711 ppbv
RT: 3.96 min Scan# 366
Delta R.T. 0.01 min
Lab File: VL038799.D
Acq: 30 Mar 2022 18:03

Tgt Ion: 45 Resp: 123832
Ion Ratio Lower Upper
45 100
58 0.0 2.3 3.5#



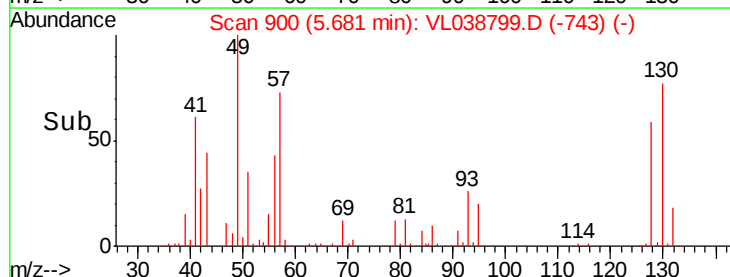
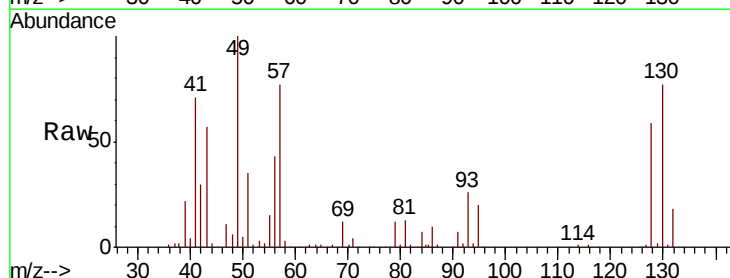
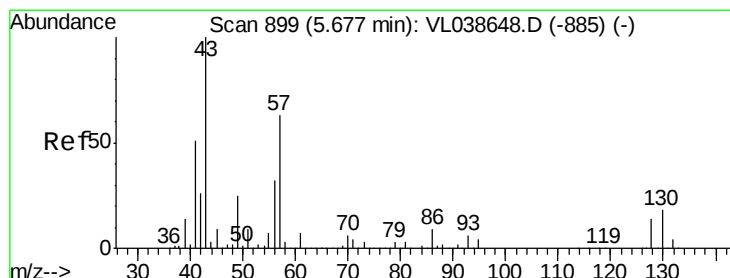
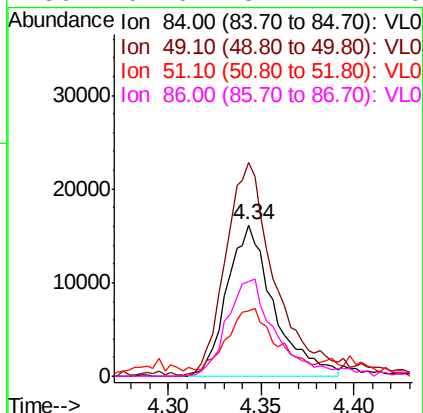


#20
Methvlene Chloride
Concen: 0.813 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1DL
Acq: 30 Mar 2022 18:03

Tot Ion:
Ion Ratio
84 100
49 139.
51 37.
86 61.6 51.4 77.0

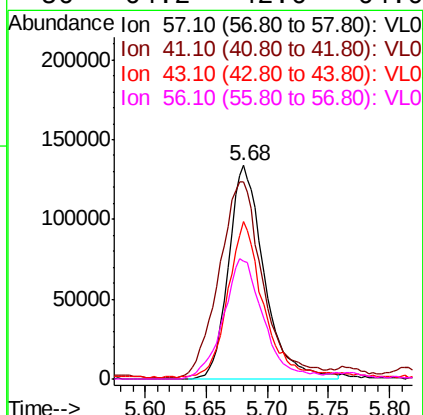
Manual Integrations
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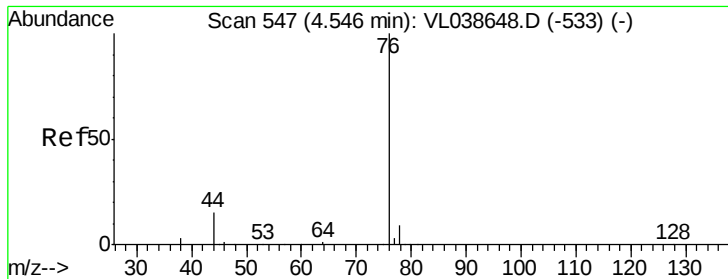
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#26
Hexane
Concen: 2.924 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL038799.D
Acq: 30 Mar 2022 18:03

Tgt Ion: 57 Resp: 271485
Ion Ratio Lower Upper
57 100
41 113.9 67.0 100.4#
43 75.9 184.2 276.2#
56 64.2 42.6 64.0#





#27

Carbon Disulfide

Concen: 3.664 ppbv

RT: 4.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

SV1DL

Acq: 30 Mar 2022 18:03

Tot Ion:

Ion Ratio

76 100

44 16.

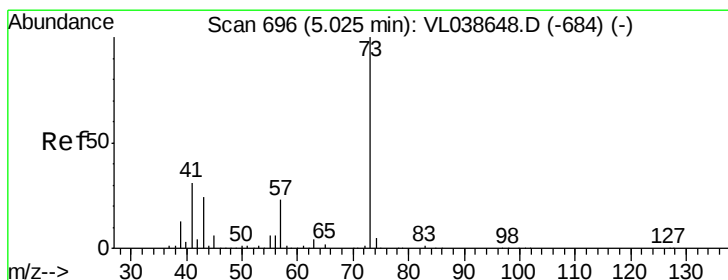
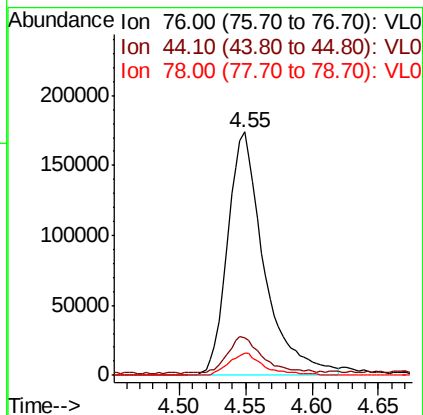
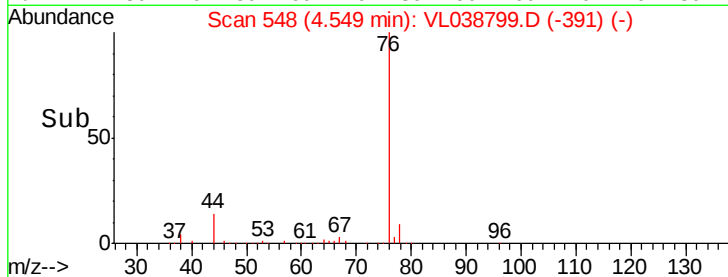
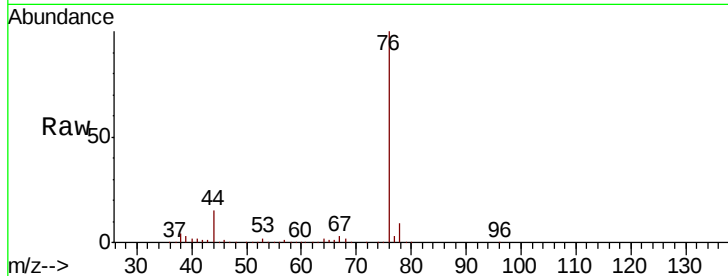
78 9.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/02/2022

Supervised By :Mahesh Dadoda 04/04/2022



#28

Methyl tert-Butyl Ether

Concen: 0.114 ppbv m

RT: 5.03 min Scan# 697

Delta R.T. 0.00 min

Lab File: VL038799.D

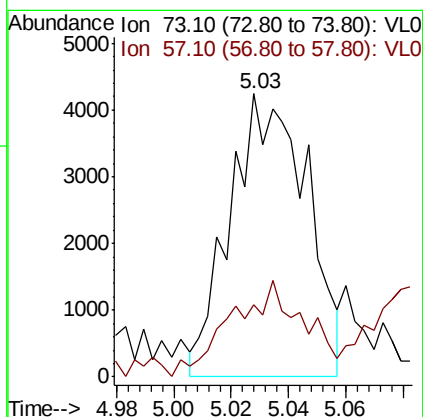
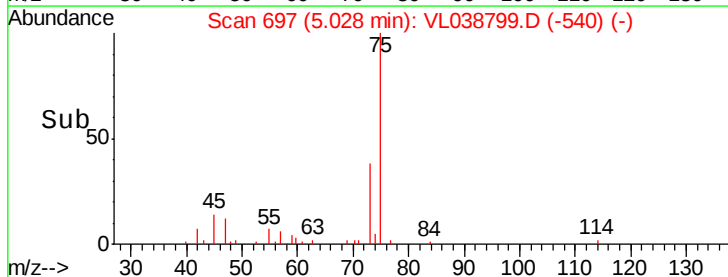
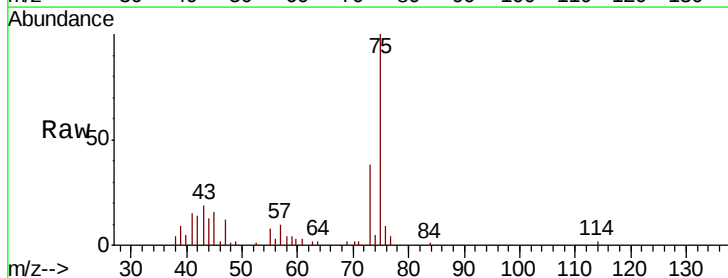
Acq: 30 Mar 2022 18:03

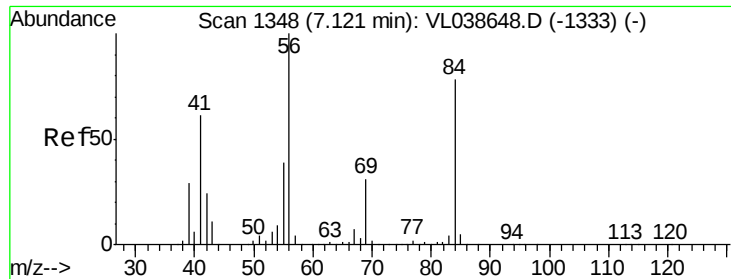
Tgt Ion: 73 Resp: 7905

Ion Ratio Lower Upper

73 100

57 0.0 19.2 28.8#



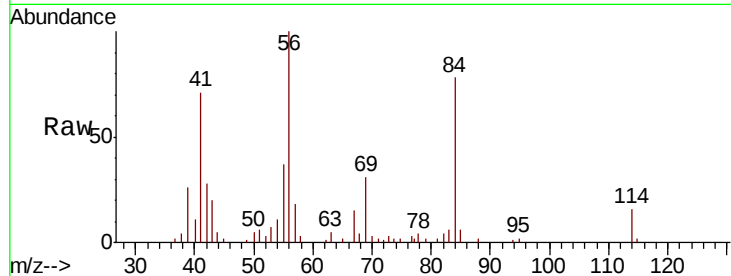


#30
Cvclohexane
Concen: 0.278 ppbv
RT: 7.12
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1DL
Acq: 30 Mar 2022 18:03

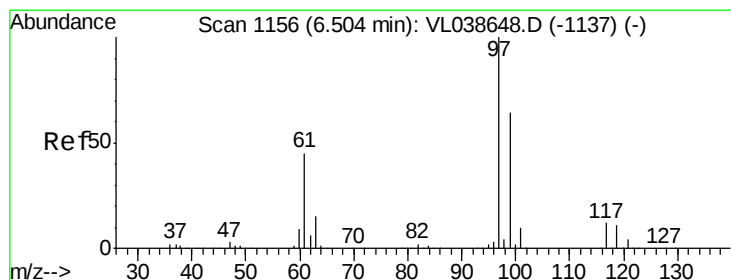
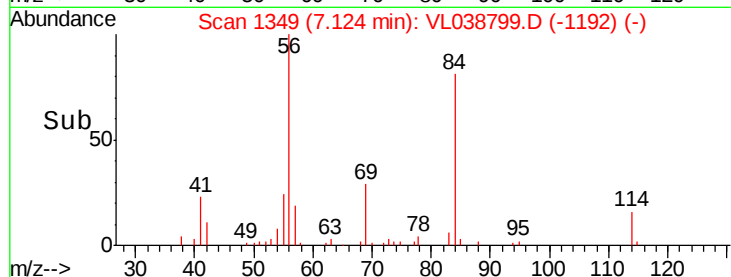
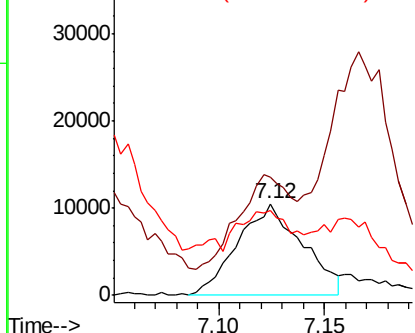
Tot Ion:
Ion Ratio
84 100
56 0.
41 86.

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022

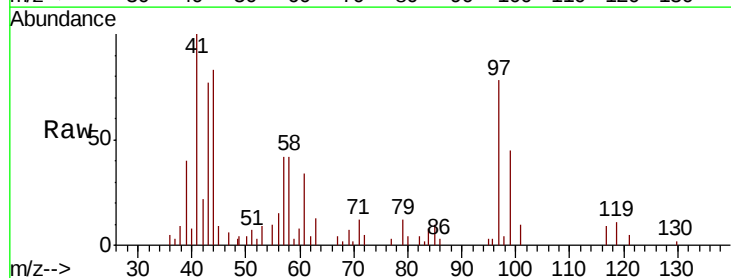


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

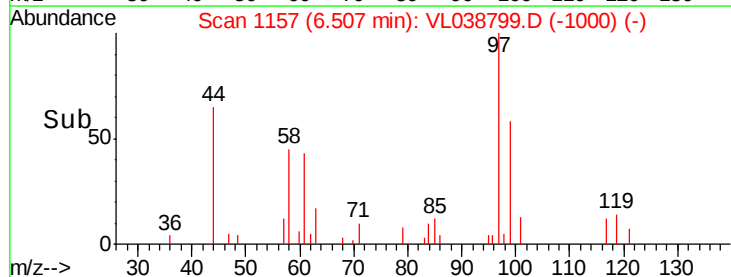
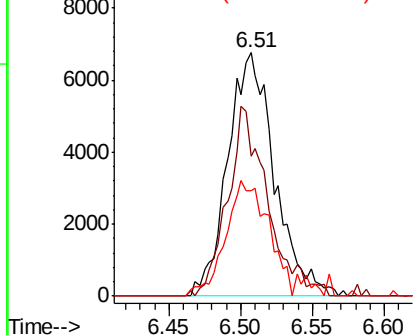


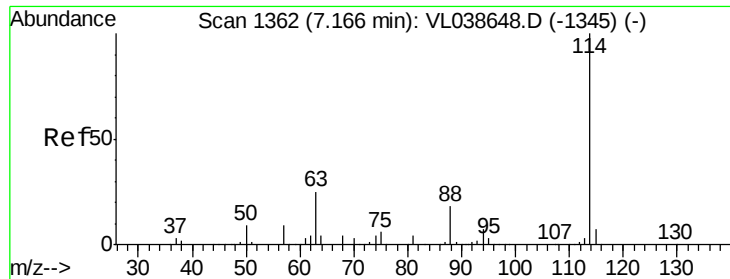
#32
1,1,1-Trichloroethane
Concen: 0.107 ppbv m
RT: 6.51 min Scan# 1157
Delta R.T. 0.00 min
Lab File: VL038799.D
Acq: 30 Mar 2022 18:03

Tgt Ion: 97 Resp: 15315
Ion Ratio Lower Upper
97 100
99 66.8 51.8 77.8
61 46.9 36.7 55.1



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



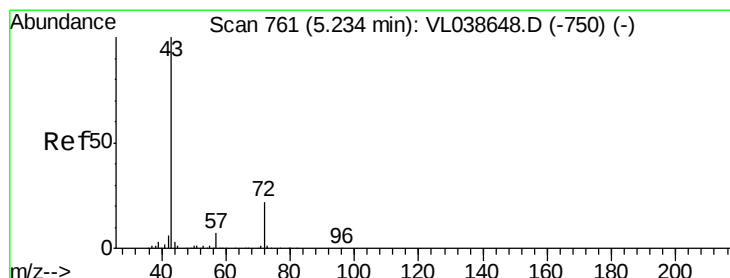
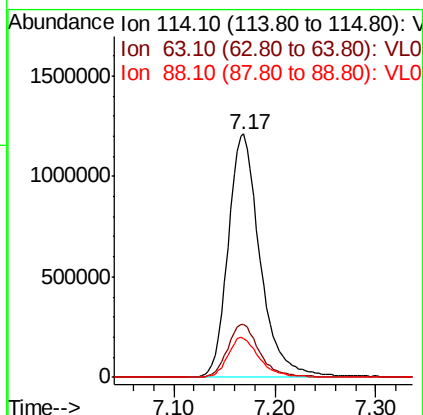
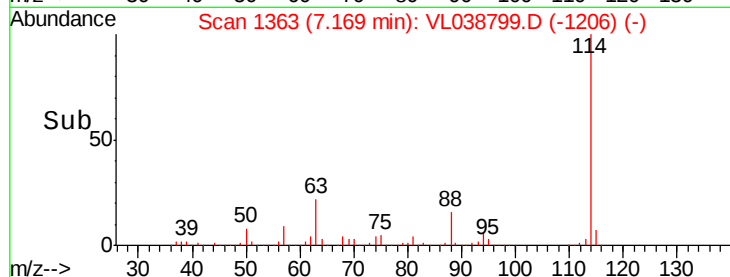
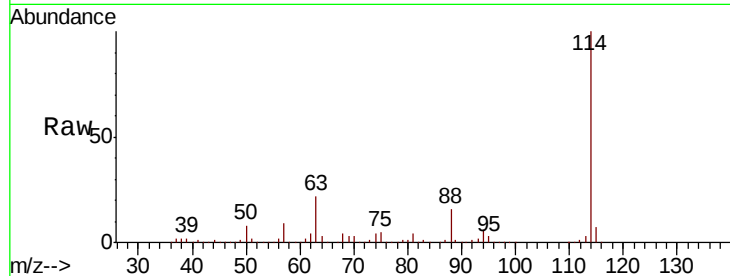


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 SV1DL
 Acq: 30 Mar 2022 18:03

Tot Ion:1
 Ion Rati
 114 100
 63 22.
 88 16.

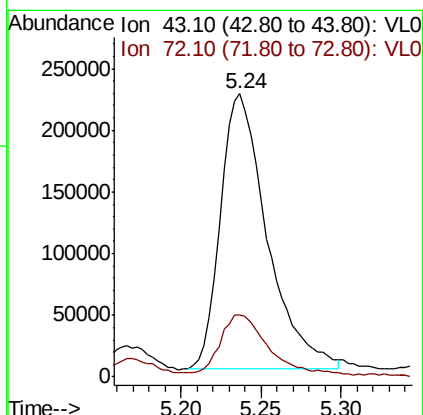
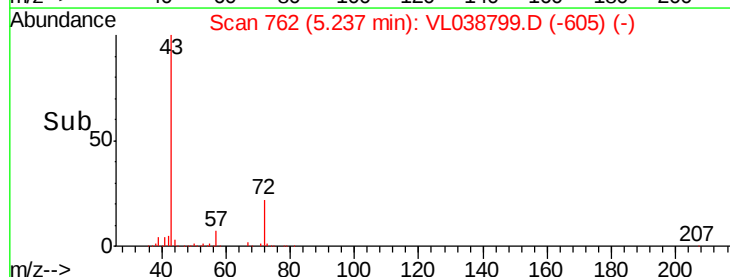
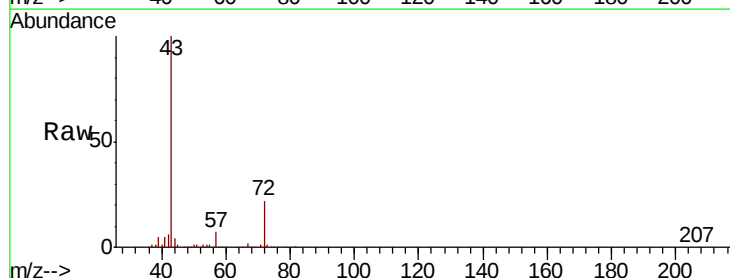
Manual Integrations
 APPROVED

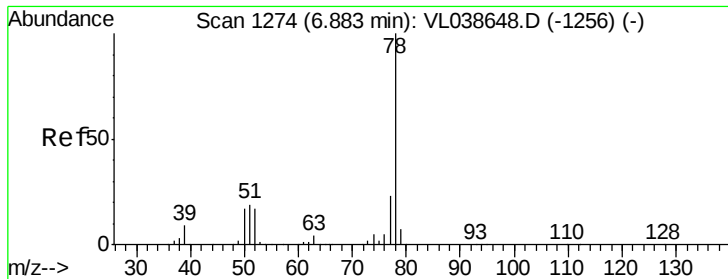
Reviewed By :Semsettin Yesilyurt 04/02/2022
 Supervised By :Mahesh Dadoda 04/04/2022



#34
 2-Butanone
 Concen: 4.218 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: VL038799.D
 Acq: 30 Mar 2022 18:03

Tgt Ion: 43 Resp: 447138
 Ion Ratio Lower Upper
 43 100
 72 25.1 17.8 26.8



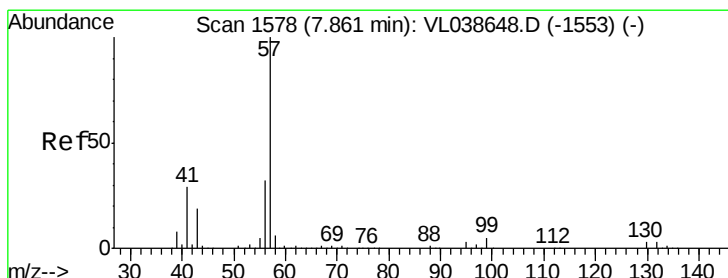
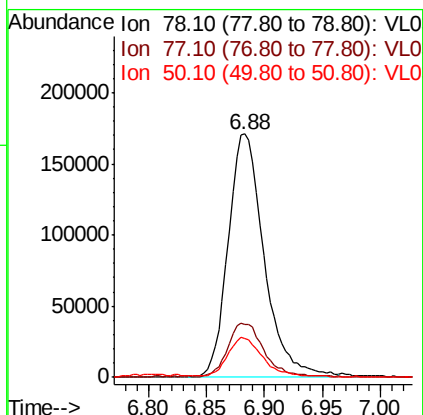
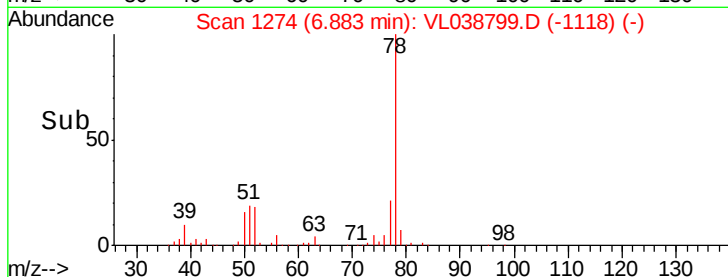
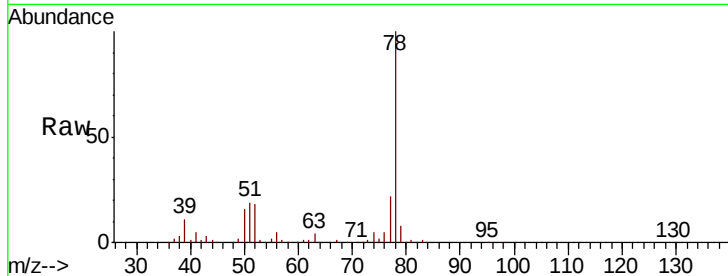


#36
Benzene
Concen: 1.781 ppbv
RT: 6.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1DL
Acq: 30 Mar 2022 18:03

Tot Ion:
Ion Ratio
78 100
77 21.
50 15.

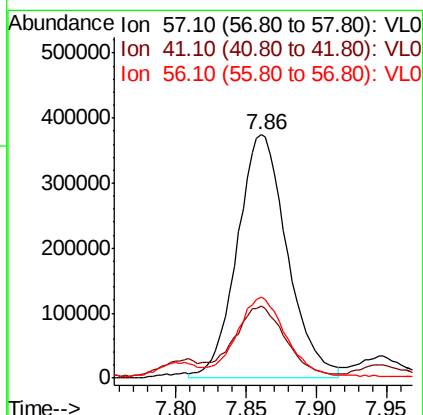
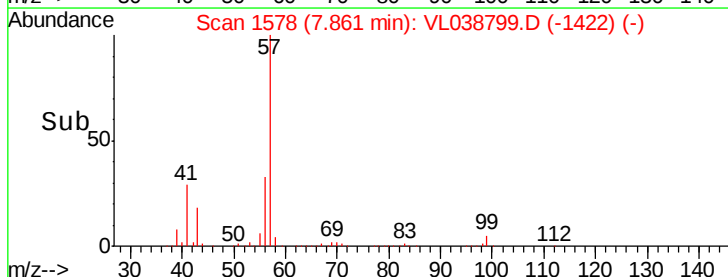
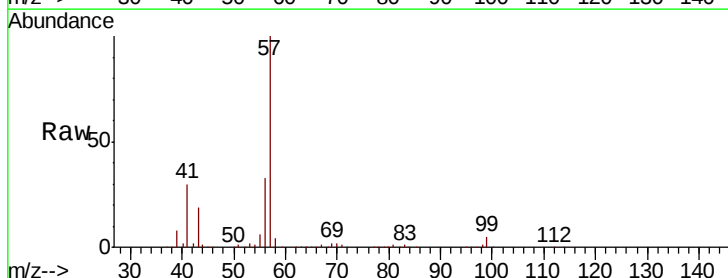
Manual Integrations
APPROVED

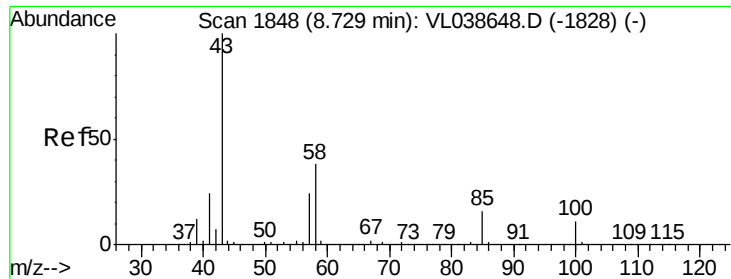
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#44
2,2,4-Trimethylpentane
Concen: 2.656 ppbv
RT: 7.86 min Scan# 1578
Delta R.T. 0.00 min
Lab File: VL038799.D
Acq: 30 Mar 2022 18:03

Tgt Ion: 57 Resp: 921765
Ion Ratio Lower Upper
57 100
41 37.5 23.0 34.4#
56 34.6 25.3 37.9



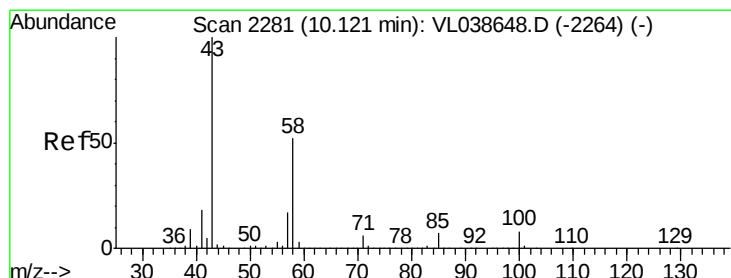
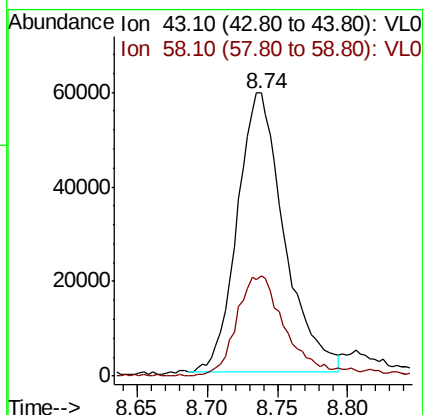
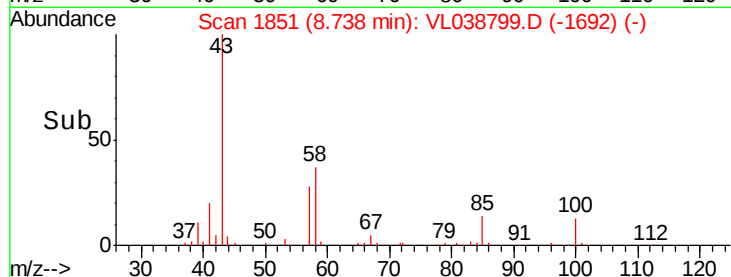
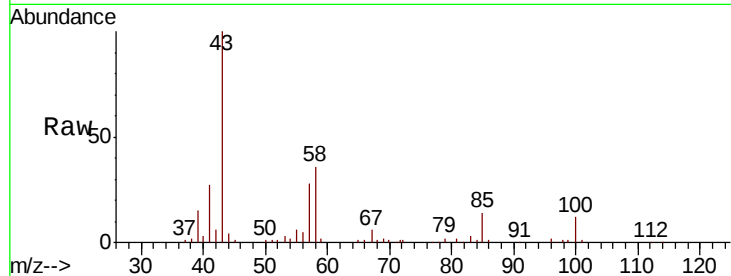


#50
4-Methyl-2-Pentanone
Concen: 0.701 ppbv
RT: 8.74
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
SV1DL
Acq: 30 Mar 2022 18:03

Tot Ion:
Ion Ratio
43 100
58 39.

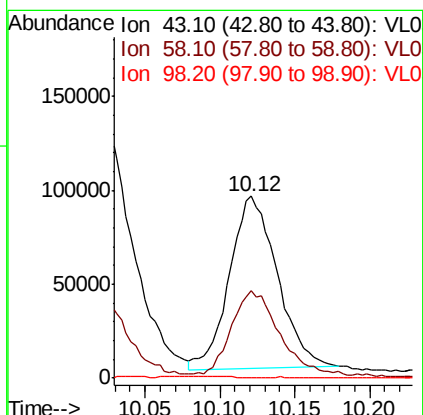
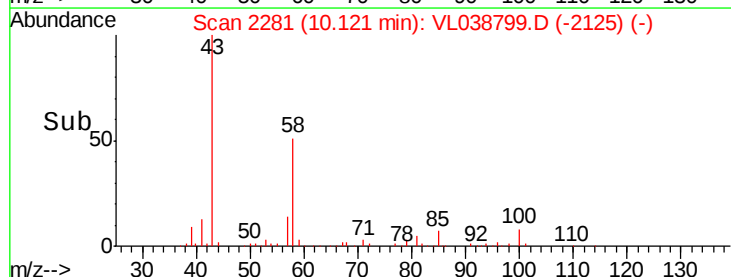
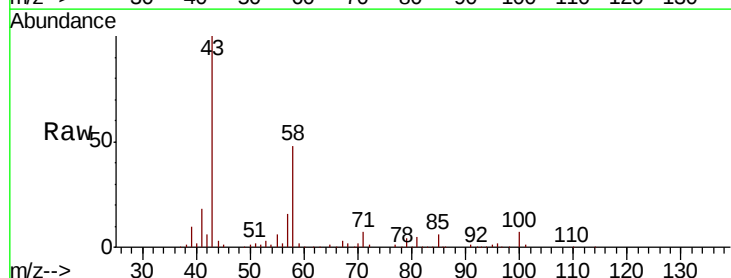
Manual Integrations
APPROVED

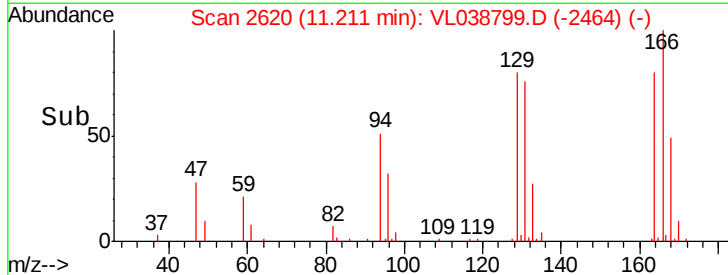
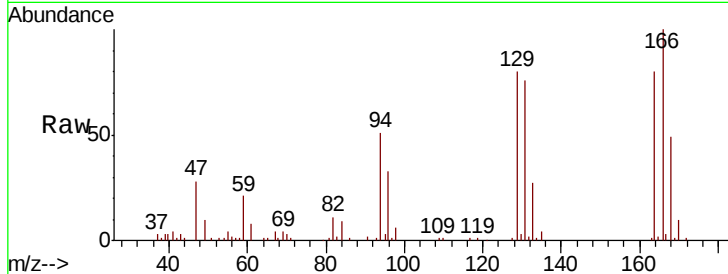
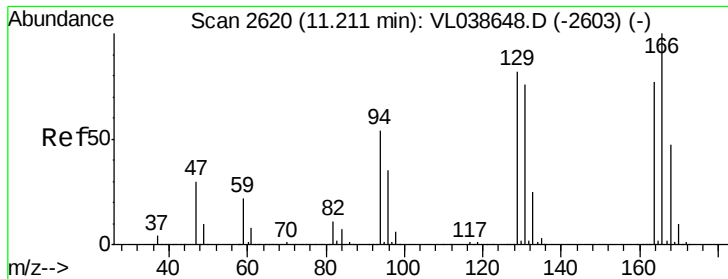
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#51
2-Hexanone
Concen: 1.450 ppbv
RT: 10.12 min Scan# 2281
Delta R.T.: 0.00 min
Lab File: VL038799.D
Acq: 30 Mar 2022 18:03

Tgt Ion: 43 Resp: 205235
Ion Ratio Lower Upper
43 100
58 54.6 41.2 61.8
98 0.3 0.2 0.4



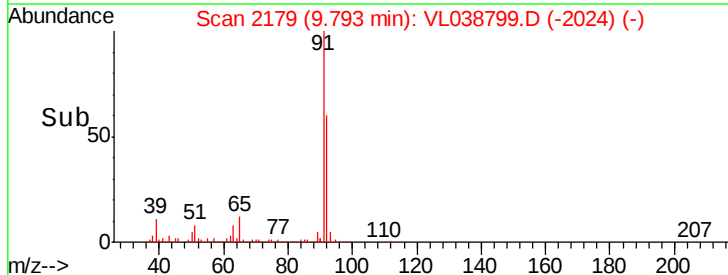
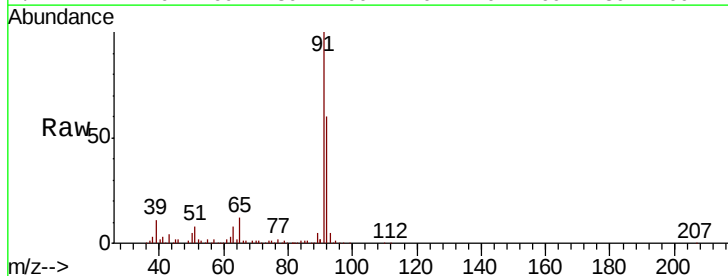
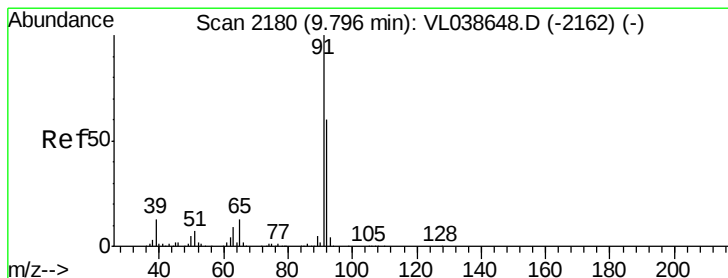
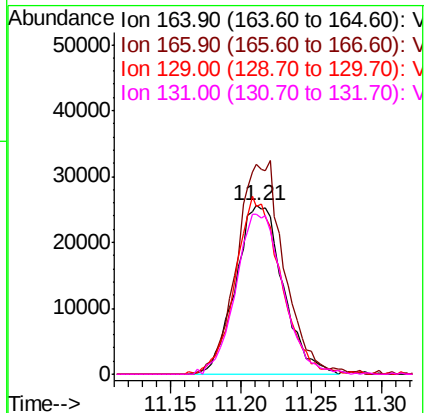


#52
Tetrachloroethene
Concen: 0.797 ppbv
RT: 11.21 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
SV1DL
Acq: 30 Mar 2022 18:03

Tot Ion: 1
Ion Ratio
164 100
166 124.
129 97.
131 94.7 78.3 117.5

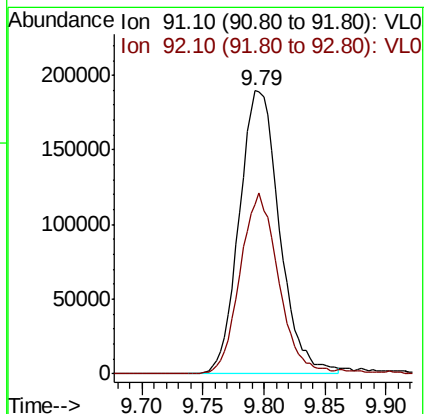
Manual Integrations
APPROVED

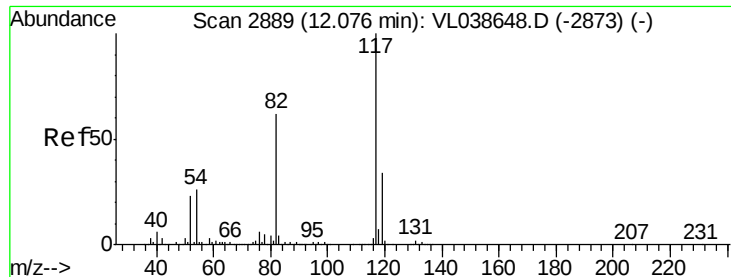
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#53
Toluene
Concen: 1.948 ppbv
RT: 9.79 min Scan# 2179
Delta R.T. -0.00 min
Lab File: VL038799.D
Acq: 30 Mar 2022 18:03

Tgt Ion: 91 Resp: 432701
Ion Ratio Lower Upper
91 100
92 62.2 48.7 73.1



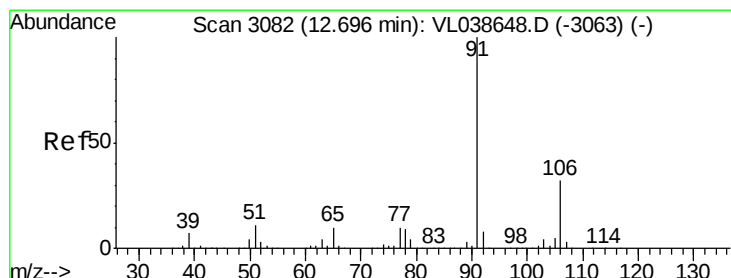
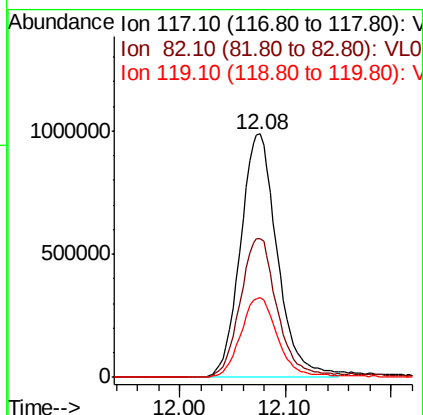
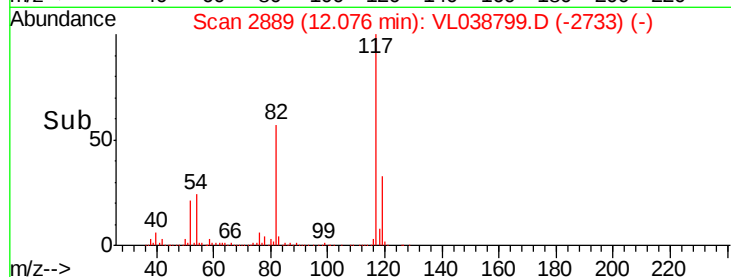
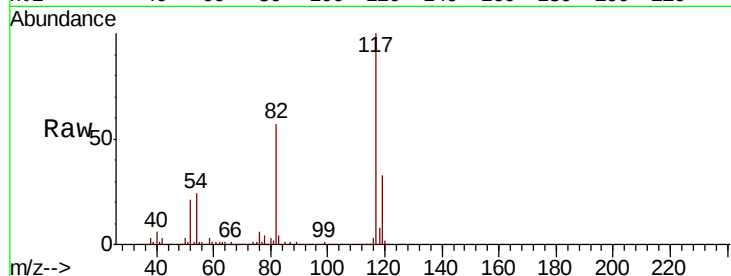


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1DL
Acq: 30 Mar 2022 18:03

Tot Ion: 1
Ion Ratio
117 100
82 59.
119 33.

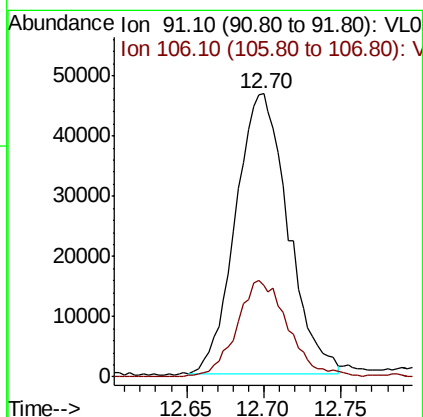
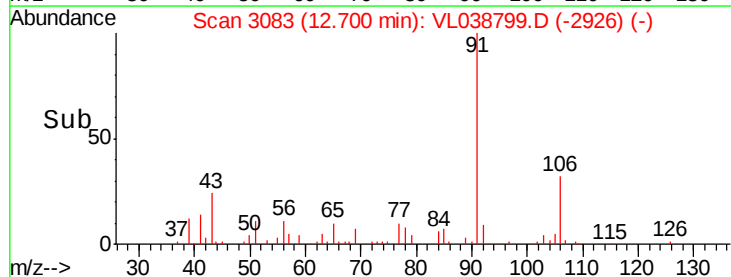
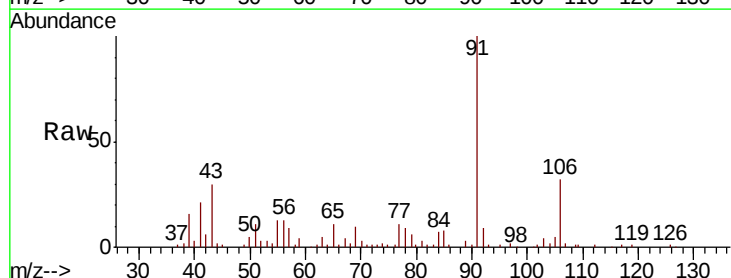
Manual Integrations
APPROVED

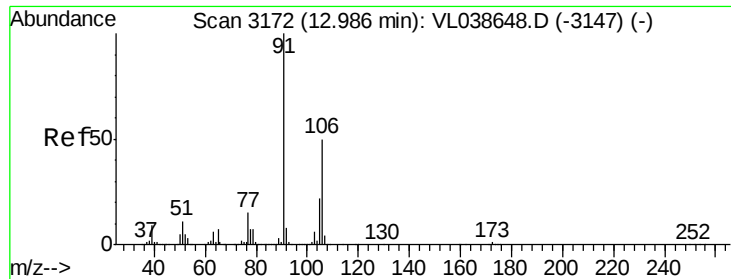
Reviewed By : Semsettin Yesilyurt 04/02/2022
Supervised By : Mahesh Dadoda 04/04/2022



#58
Ethyl Benzene
Concen: 0.392 ppbv
RT: 12.70 min Scan# 3083
Delta R.T.: 0.00 min
Lab File: VL038799.D
Acq: 30 Mar 2022 18:03

Tgt Ion: 91 Resp: 109866
Ion Ratio Lower Upper
91 100
106 32.0 25.4 38.0

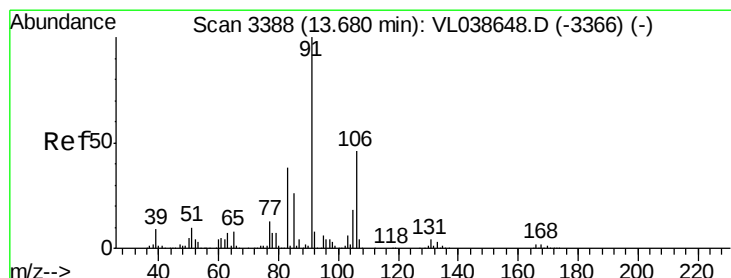
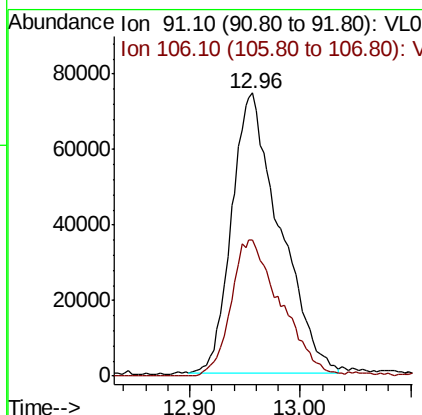
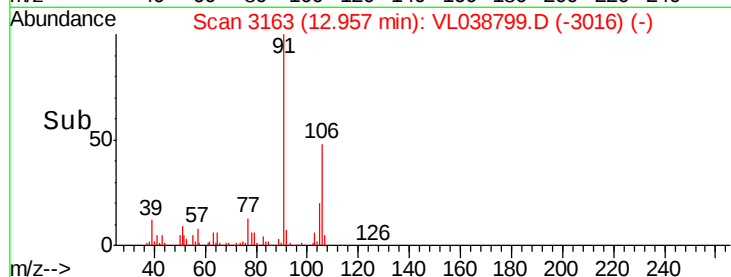
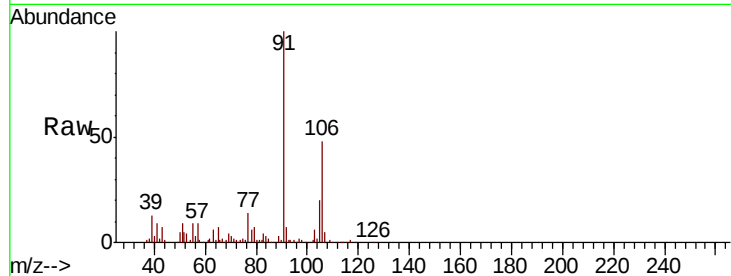




#59
m/p-Xylene
Concen: 0.911 ppbv
RT: 12.96 min
Delta R.T.: 0.00 min
Lab File: VL038799.D
Acq: 30 Mar 2022 18:03

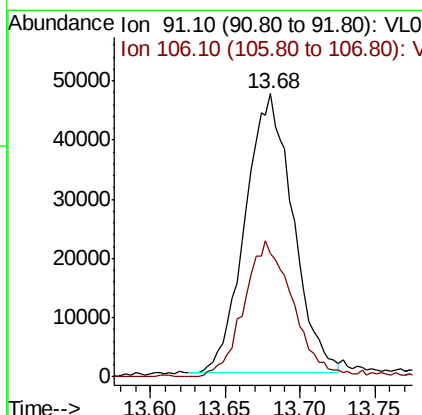
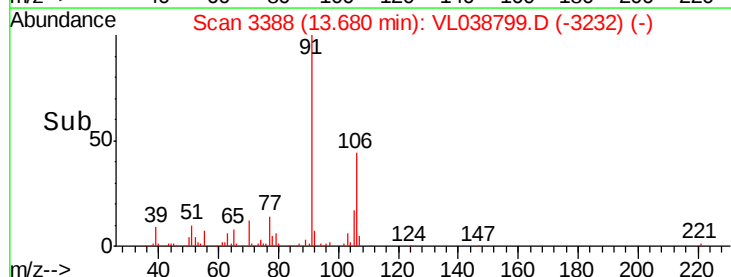
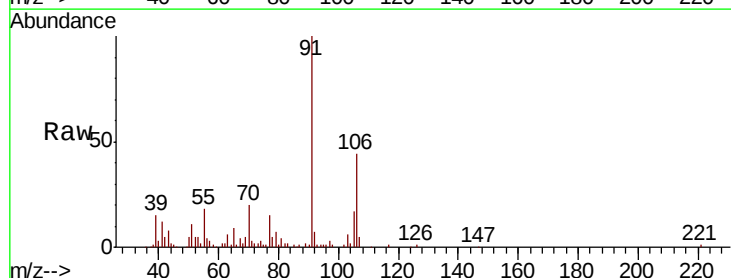
Manual Integrations
APPROVED

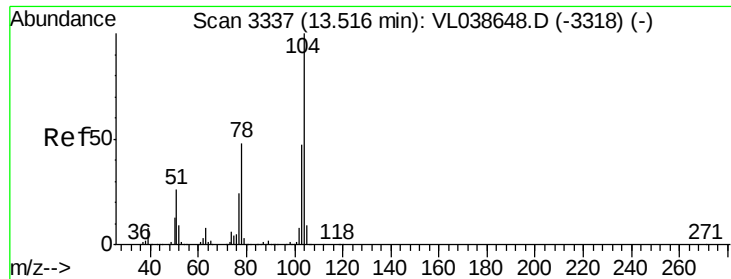
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#60
o-Xylene
Concen: 0.449 ppbv
RT: 13.68 min Scan# 3388
Delta R.T.: 0.00 min
Lab File: VL038799.D
Acq: 30 Mar 2022 18:03

Tgt Ion: 91 Resp: 104603
Ion Ratio Lower Upper
91 100
106 51.2 23.5 70.5



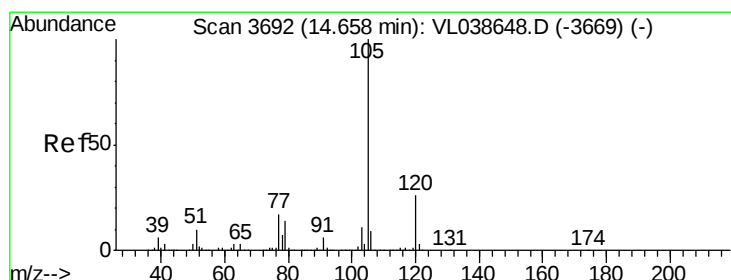
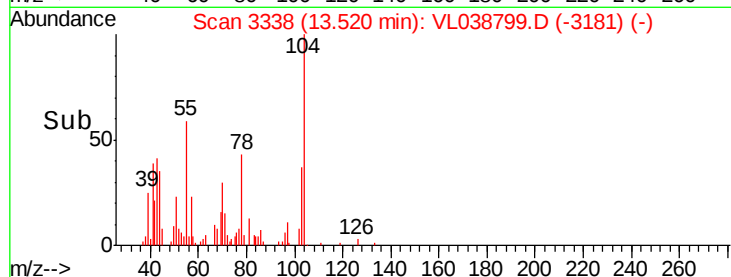
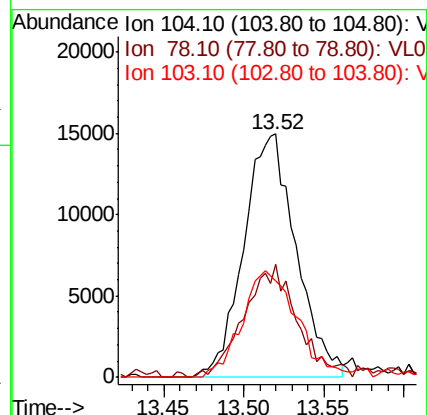
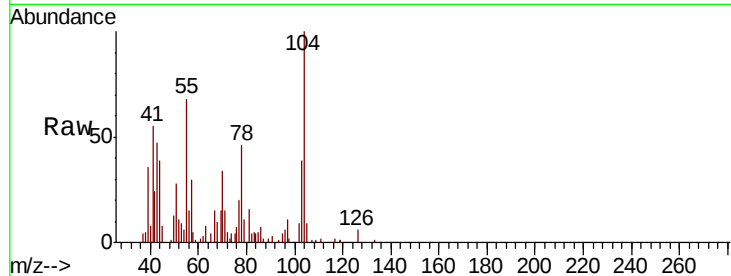


#61
Stvrene
Concen: 0.267 ppbv
RT: 13.52
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1DL
Acq: 30 Mar 2022 18:03

Tot Ion:1
Ion Rati
104 100
78 48.
103 46.

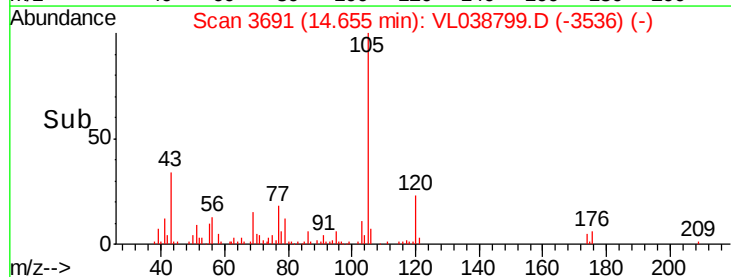
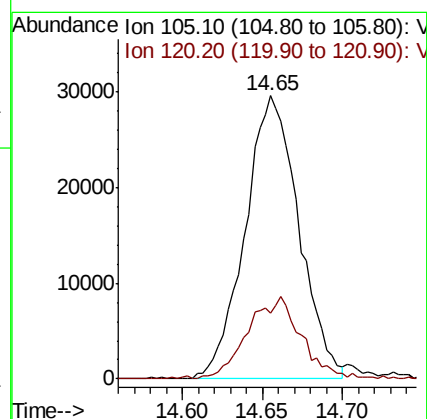
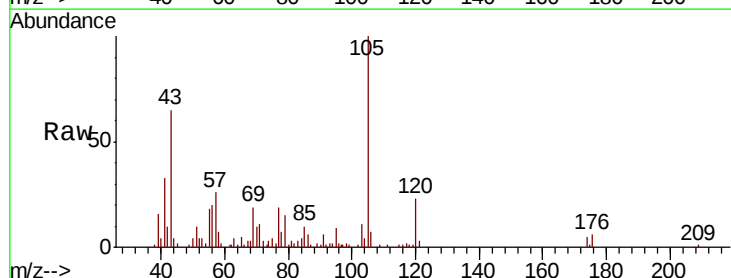
Manual Integrations
APPROVED

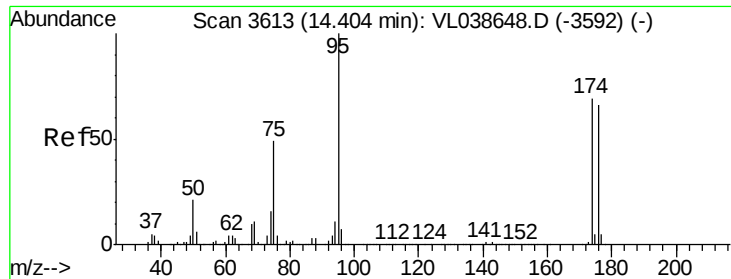
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#62
Isopropylbenzene
Concen: 0.196 ppbv
RT: 14.65 min Scan# 3691
Delta R.T. -0.00 min
Lab File: VL038799.D
Acq: 30 Mar 2022 18:03

Tgt Ion:105 Resp: 68461
Ion Ratio Lower Upper
105 100
120 29.2 21.2 31.8



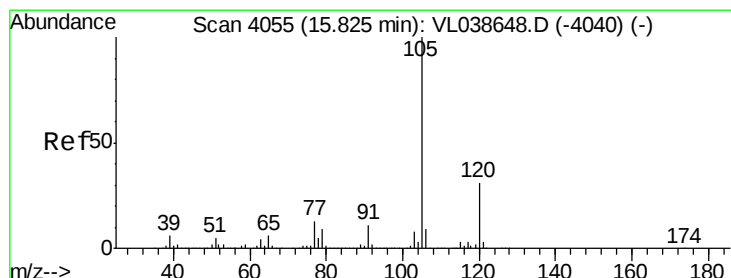
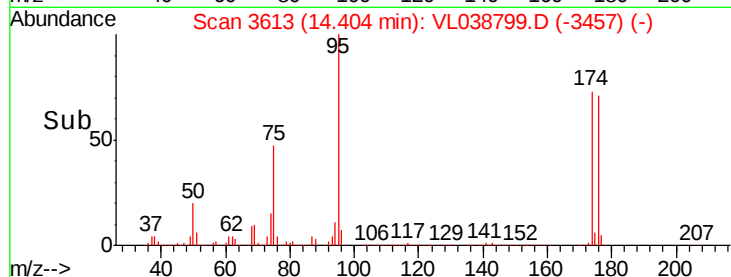
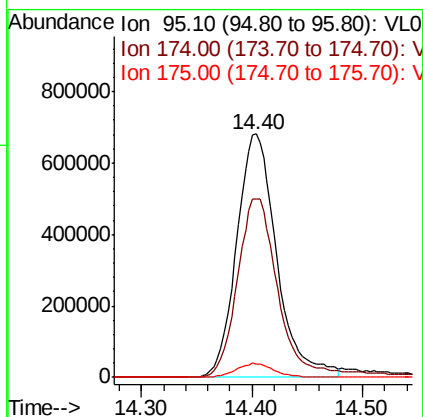
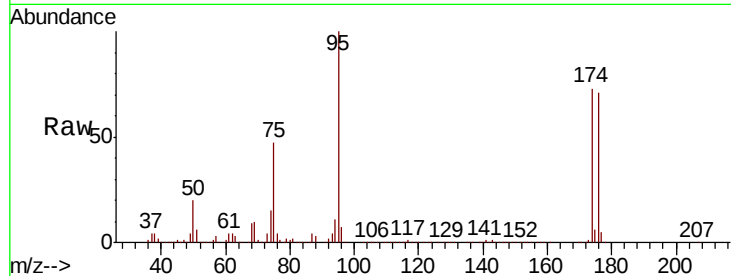


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.286 ppbv
 RT: 14.40 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : SV1DL
 Acq: 30 Mar 2022 18:03

Tot Ion:
 Ion Ratio
 95 100
 174 78.
 175 5.

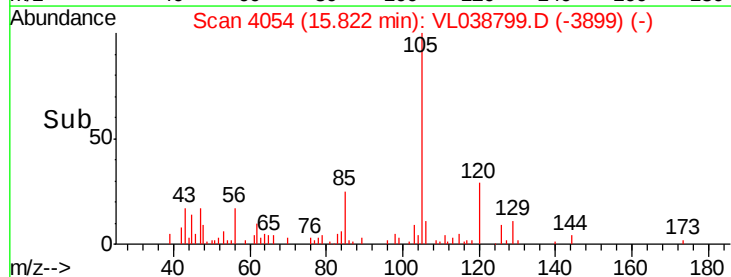
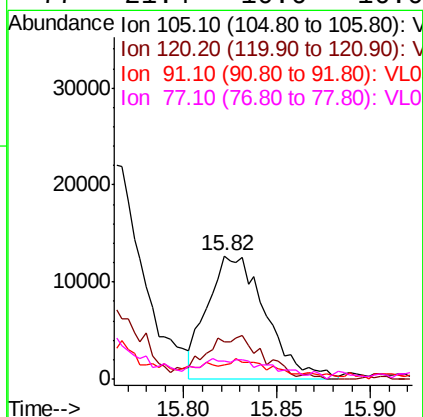
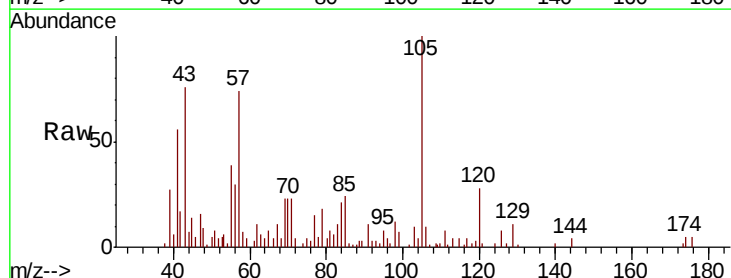
Manual Integrations
 APPROVED

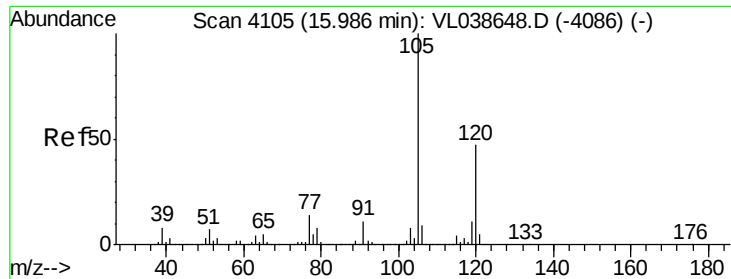
Reviewed By :Semsettin Yesilyurt 04/02/2022
 Supervised By :Mahesh Dadoda 04/04/2022



#72
 4-Ethyltoluene
 Concen: 0.101 ppbv m
 RT: 15.82 min Scan# 4054
 Delta R.T. -0.00 min
 Lab File: VL038799.D
 Acq: 30 Mar 2022 18:03

Tgt Ion:105 Resp: 27664
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.9 37.3#
 91 0.0 9.8 14.6#
 77 21.4 10.6 16.0#



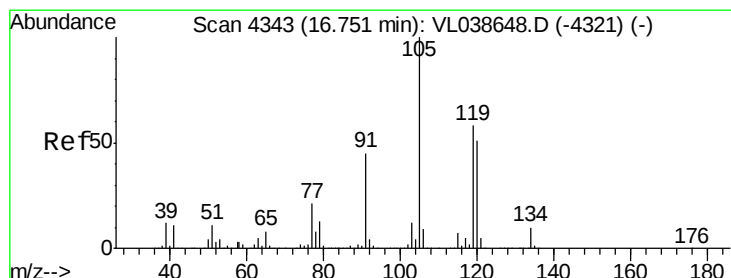
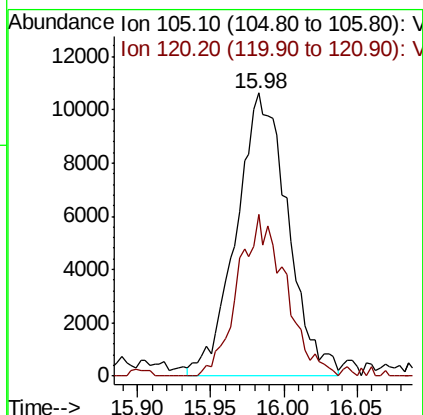
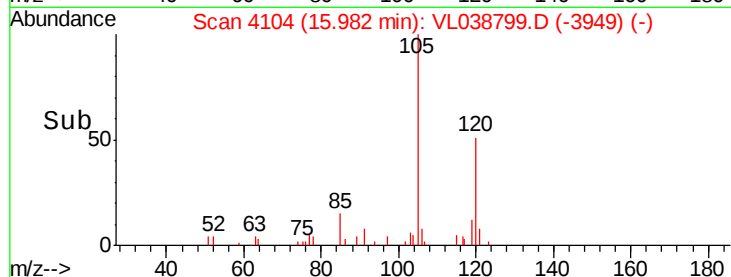
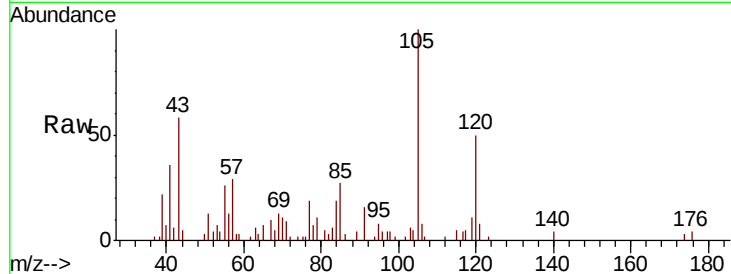


#73
 1,3,5-Trimethylbenzene
 Concen: 0.104 ppbv m
 RT: 15.98
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 SV1DL
 Acq: 30 Mar 2022 18:03

Tot Ion:1
 Ion Rati
 105 100
 120 49.

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/02/2022
 Supervised By :Mahesh Dadoda 04/04/2022



#74
 1,2,4-Trimethylbenzene
 Concen: 0.276 ppbv
 RT: 16.75 min Scan# 4343
 Delta R.T. 0.00 min
 Lab File: VL038799.D
 Acq: 30 Mar 2022 18:03

Tgt Ion:105 Resp: 75277
 Ion Ratio Lower Upper
 105 100
 120 46.9 40.5 60.7
 91 7.3 35.9 53.9#
 77 15.1 16.6 25.0#

