

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120721\
 Data File : VL038157.D
 Acq On : 7 Dec 2021 19:25
 Operator : SY/AP
 Sample : M4897-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV-1

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/08/2021
 Supervised By :Semsettin Yesilyurt 12/08/2021

Quant Time: Dec 08 15:00:29 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	831130	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2210247	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	2041175	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1743122	11.84	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	118.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	44527m	0.324	ppbv	
9) Propene	3.02	41	93394	1.453	ppbv	90
10) Heptane	8.10	43	178497	1.124	ppbv	96
13) Ethanol	3.60	45	462682	74.483	ppbv	88
15) Acetone	3.84	43	1753195	24.330	ppbv #	88
17) tert-Butyl alcohol	4.29	59	129958	1.487	ppbv	97
19) Isopropyl Alcohol	3.96	45	451033	8.663	ppbv #	94
20) Methylene Chloride	4.34	84	114452	2.836	ppbv	96
23) Vinyl Acetate	5.06	43	1421642	13.628	ppbv	97
25) Ethyl Acetate	5.68	43	1143144	4.773	ppbv #	80
26) Hexane	5.68	57	1524706	13.208	ppbv #	36
29) Chloroform	5.74	83	101157	0.595	ppbv	94
34) 2-Butanone	5.23	43	191794	2.152	ppbv	90
35) Carbon Tetrachloride	7.01	117	12098m	0.078	ppbv	
36) Benzene	6.87	78	45221	0.205	ppbv #	93
41) Tetrahydrofuran	6.05	42	56810m	1.027	ppbv	
51) 2-Hexanone	10.11	43	493474	7.750	ppbv #	98
52) Tetrachloroethene	11.20	164	18479	0.227	ppbv	88
53) Toluene	9.79	91	200594	0.791	ppbv	99
59) m/p-Xylene	12.95	91	230862m	0.813	ppbv	
60) o-Xylene	13.67	91	83459	0.317	ppbv	91
61) Styrene	13.51	104	102121	0.723	ppbv #	89
74) 1,2,4-Trimethylbenzene	16.74	105	169086	0.588	ppbv #	64

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

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Quant Time: Dec 08 15:00:29 2021

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821

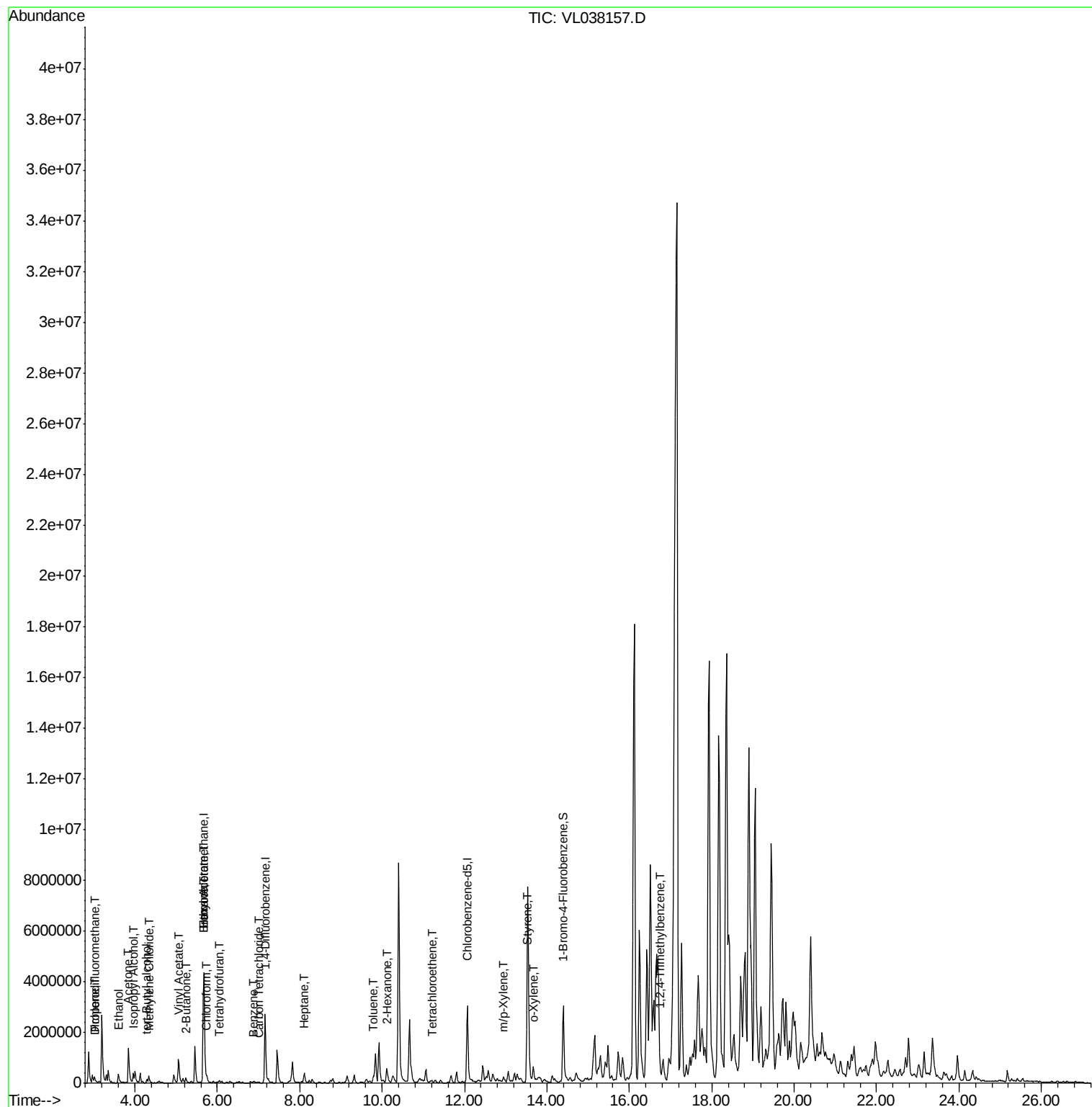
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

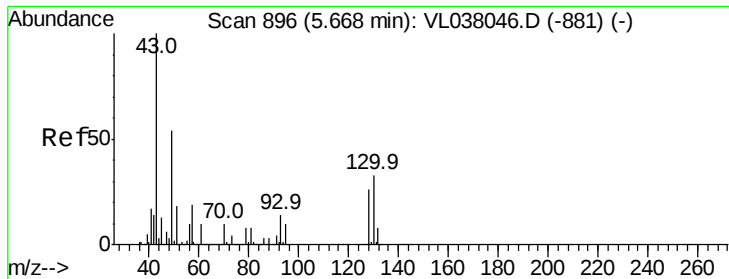
QLast Update : Thu Nov 18 13:16:09 2021

Response via : Initial Calibration

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Dec 2021 19:25 SV-1

Tot Ion:

Ion Ratio

49 100

128 46.

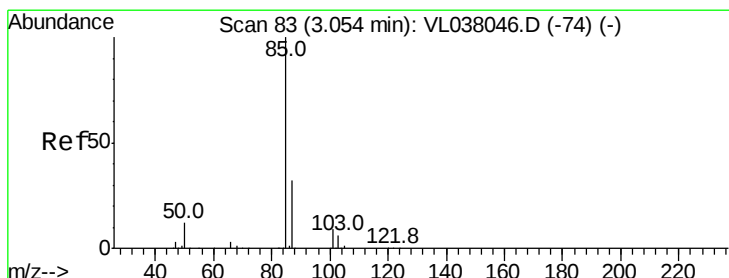
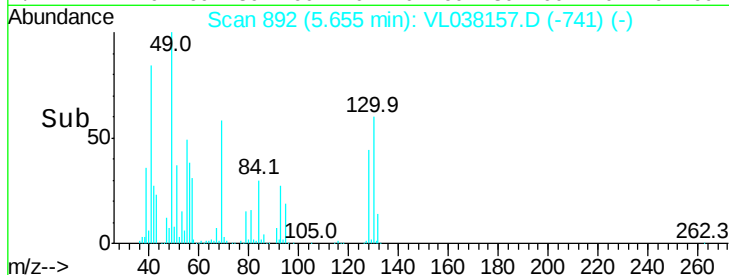
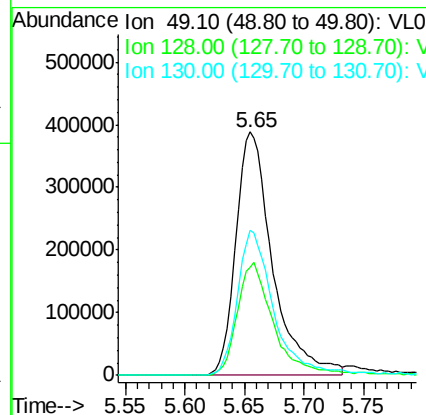
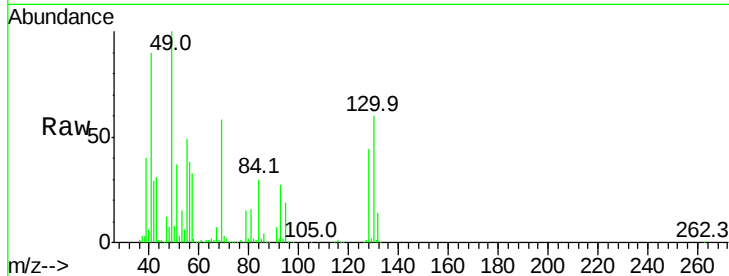
130 59.

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.324 ppbv m

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL038157.D

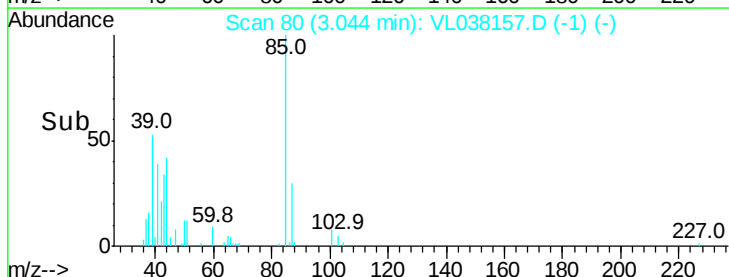
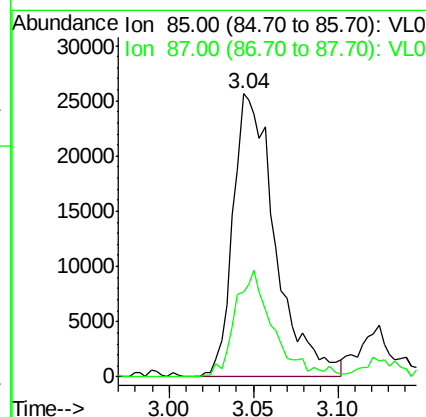
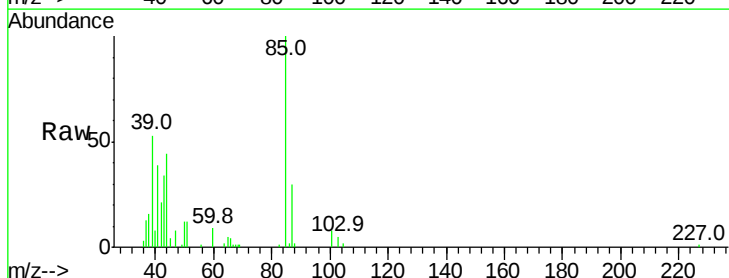
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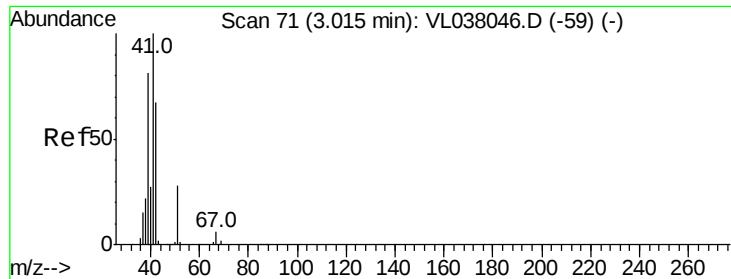
Tgt Ion: 85 Resp: 44527

Ion Ratio Lower Upper

85 100

87 30.0 25.8 38.6





#9

Propene

Concen: 1.453 ppbv

RT: 3.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Dec 2021 19:25

Tot Ion:

Ion Ratio

41 100

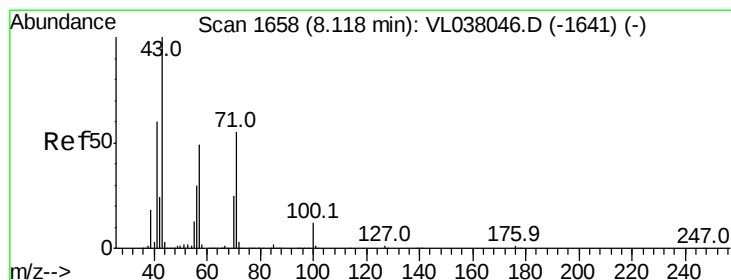
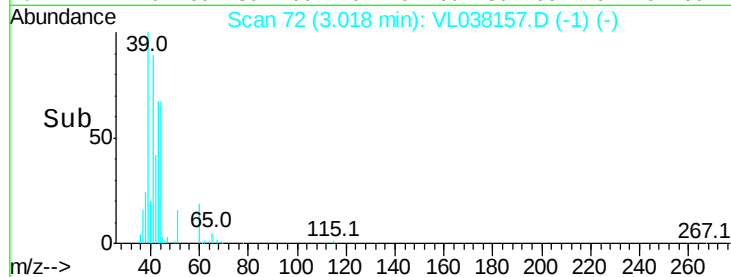
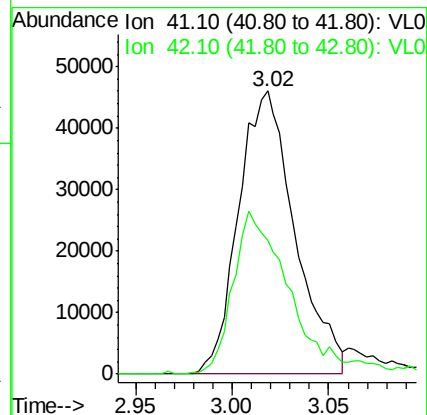
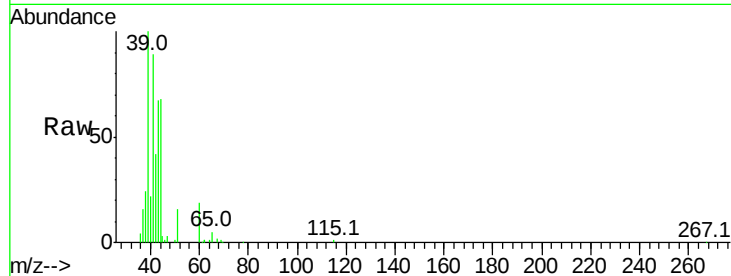
42 59.

Manual Integrations

APPROVED

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#10

Heptane

Concen: 1.124 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.02 min

Lab File: VL038157.D

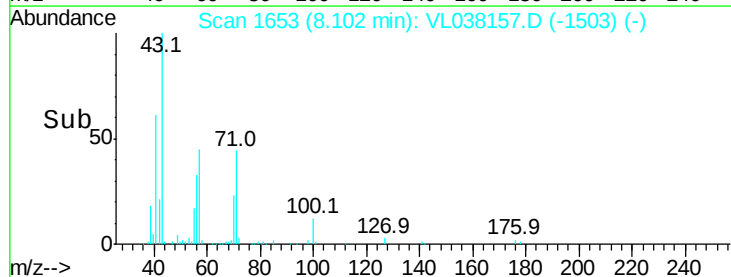
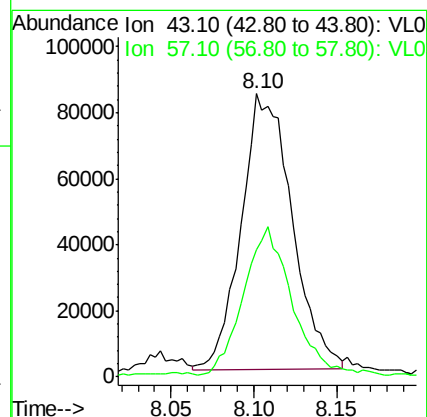
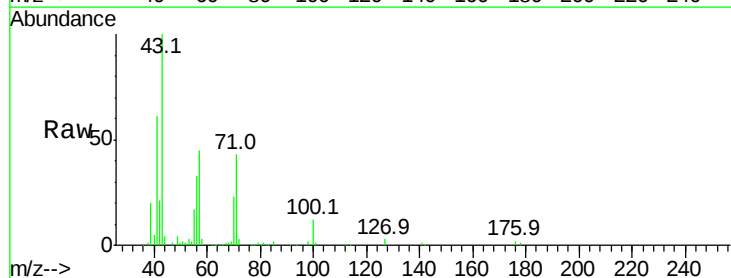
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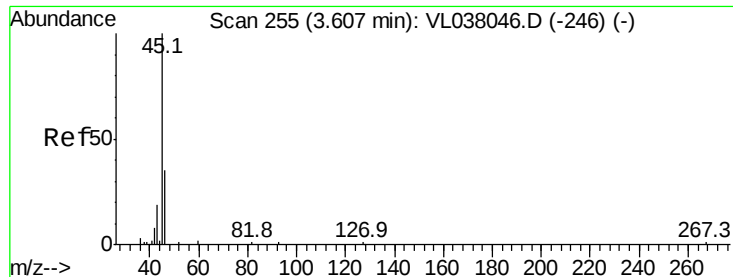
Tgt Ion: 43 Resp: 178497

Ion Ratio Lower Upper

43 100

57 52.9 40.4 60.6



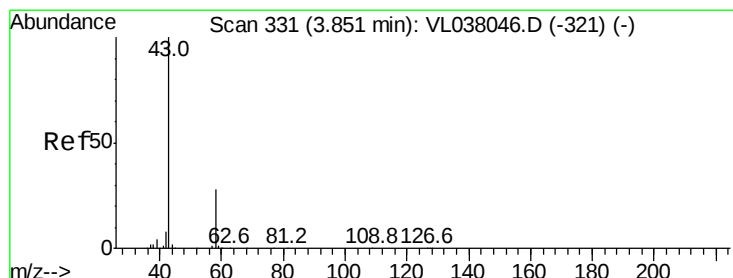
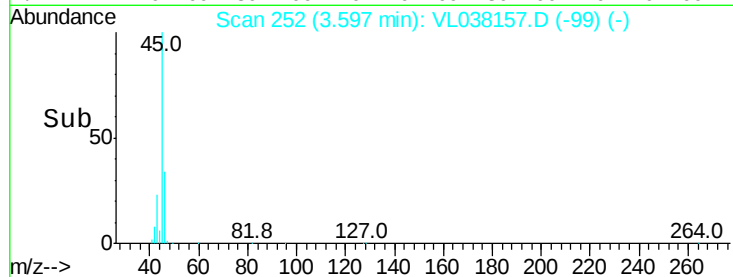
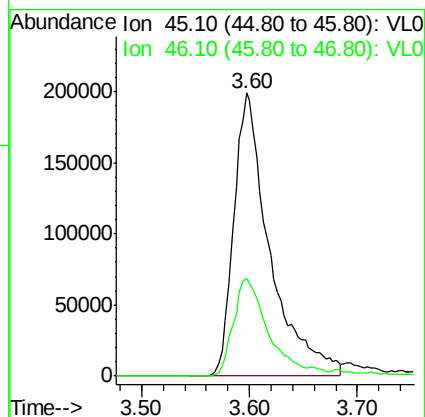
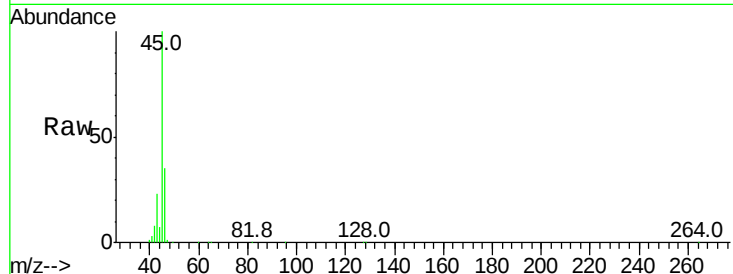


#13
Ethanol
Concen: 74.483 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 19:25

Tot Ion:
Ion Ratio
45 100
46 36.

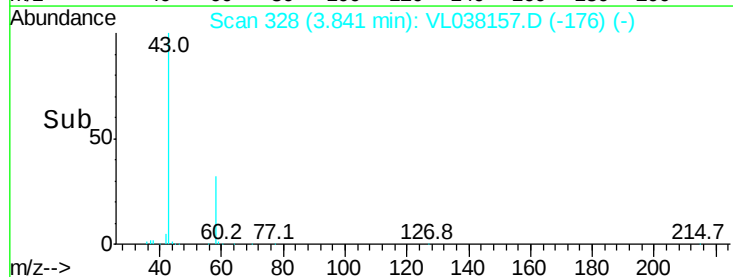
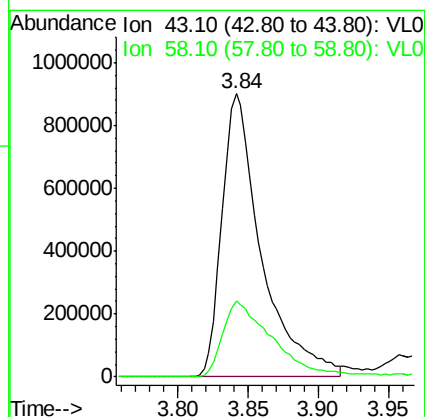
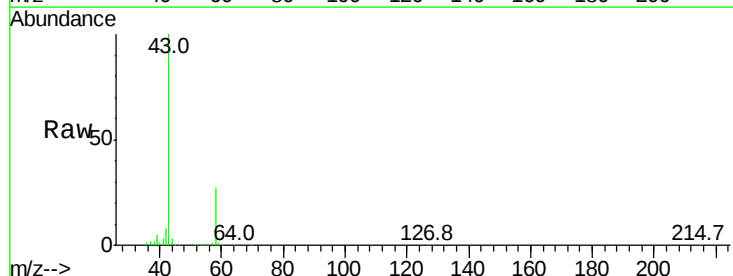
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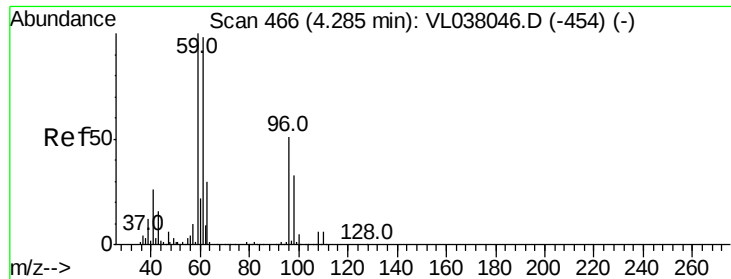
Reviewed By :Amit Patel 12/08/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#15
Acetone
Concen: 24.330 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

Tgt Ion: 43 Resp: 1753195
Ion Ratio Lower Upper
43 100
58 34.3 22.4 33.6#





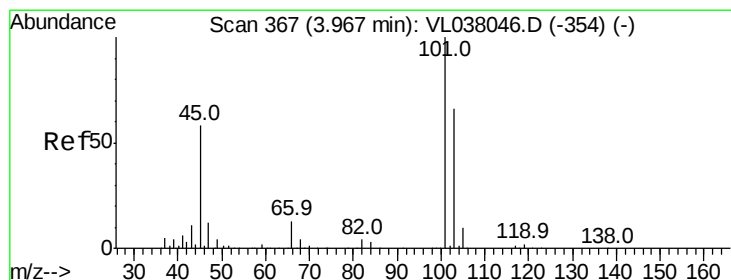
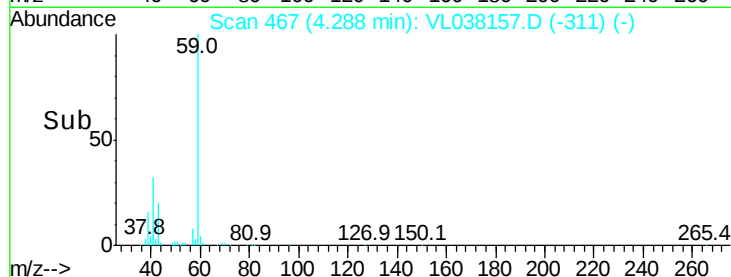
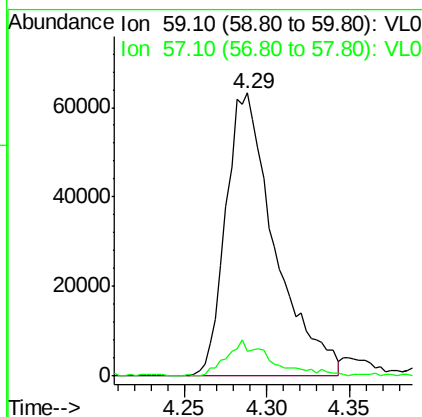
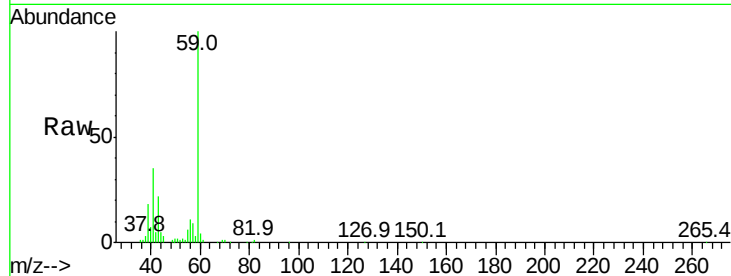
#17

tert-Butyl alcohol
Concen: 1.487 ppbv
RT: 4.29
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV-1
Acq: 7 Dec 2021 19:25

Tot Ion:
Ion Ratio
59 100
57 11.

Manual Integrations
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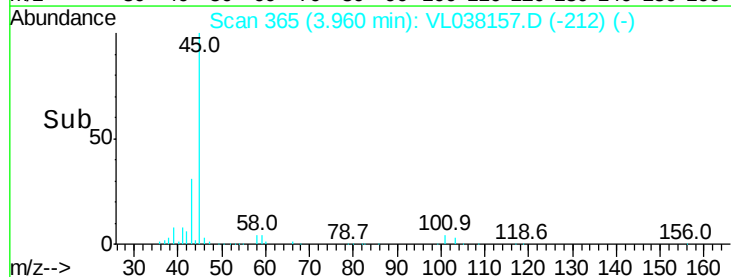
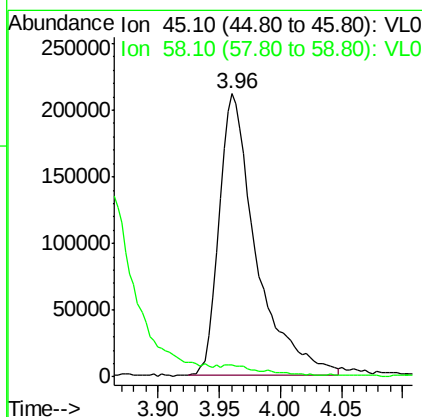
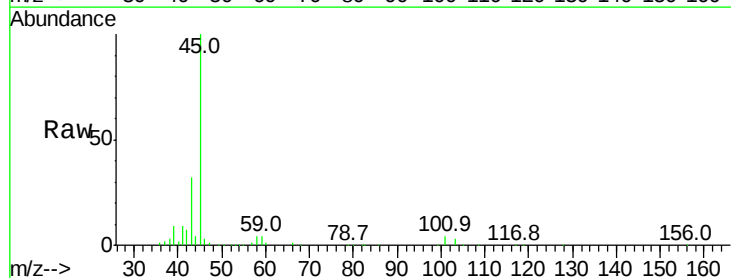
Reviewed By :Amit Patel 12/08/2021
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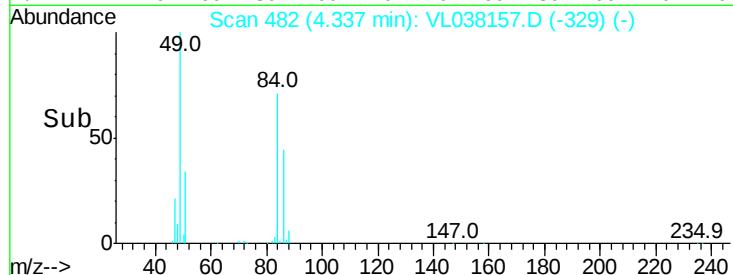
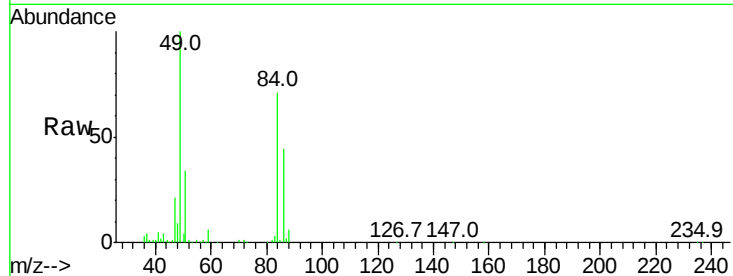
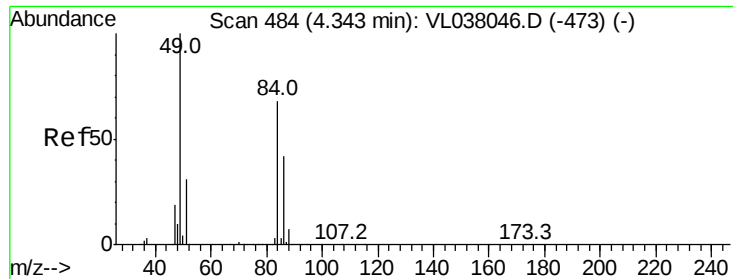


#19

Isopropyl Alcohol
Concen: 8.663 ppbv
RT: 3.96 min Scan# 365
Delta R.T. -0.01 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

Tgt Ion: 45 Resp: 451033
Ion Ratio Lower Upper
45 100
58 4.0 1.4 2.0#



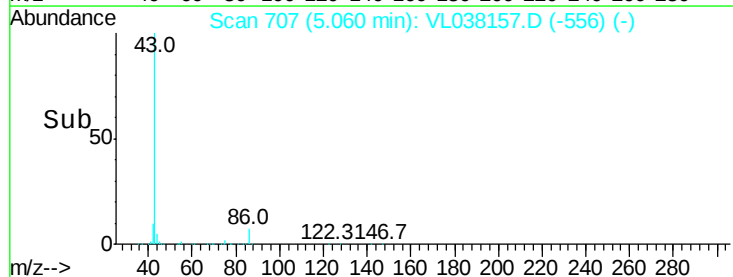
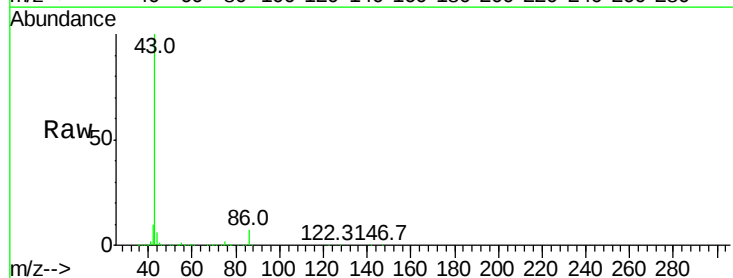
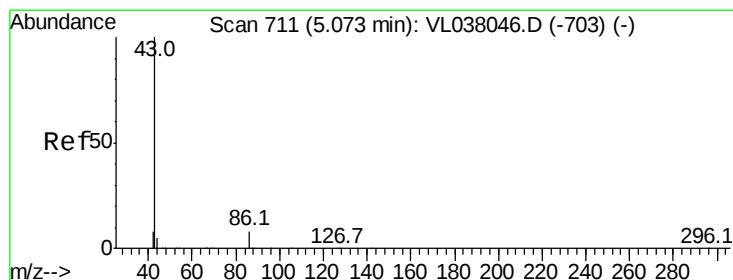
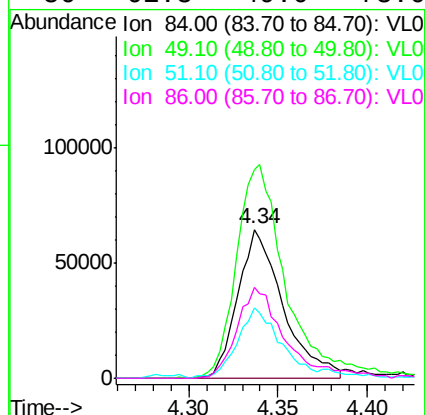


#20
Methvlene Chloride
Concen: 2.836 ppbv
RT: 4.34
Instrument : MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SV-1
Acq: 7 Dec 2021 19:25

Tot Ion:
Ion Ratio
84 100
49 140.
51 47.
86 61.3 49.0 73.6

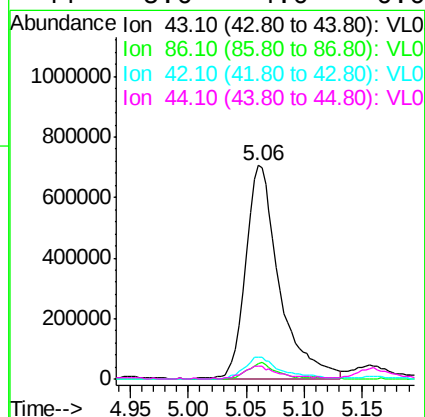
Manual Integrations APPROVED

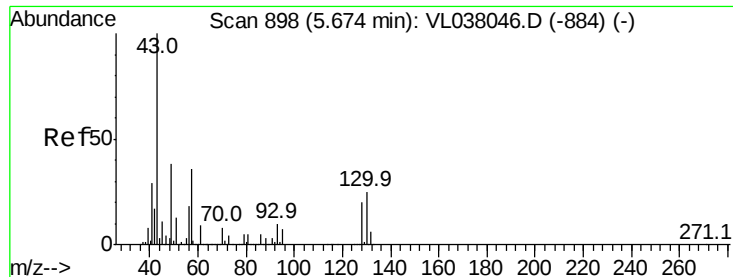
Reviewed By :Amit Patel 12/08/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#23
Vinyl Acetate
Concen: 13.628 ppbv
RT: 5.06 min Scan# 707
Delta R.T. -0.01 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

Tgt Ion: 43 Resp: 1421642
Ion Ratio Lower Upper
43 100
86 6.9 5.3 7.9
42 10.4 7.0 10.6
44 5.6 4.0 6.0





#25

Ethyl Acetate

Concen: 4.773 ppbv

RT: 5.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Dec 2021 19:25

Tot Ion:

Ion Ratio

43 100

45 0.

61 0.

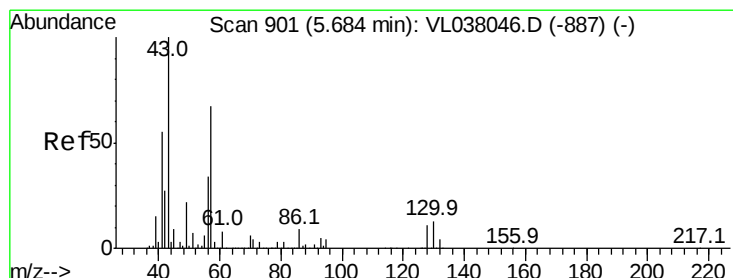
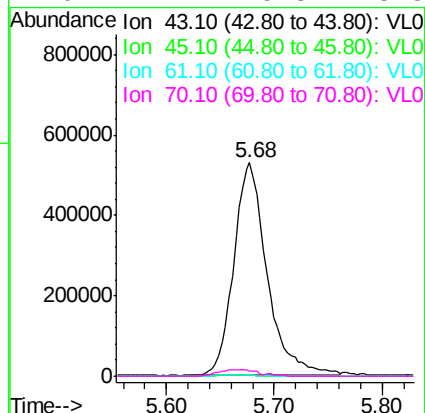
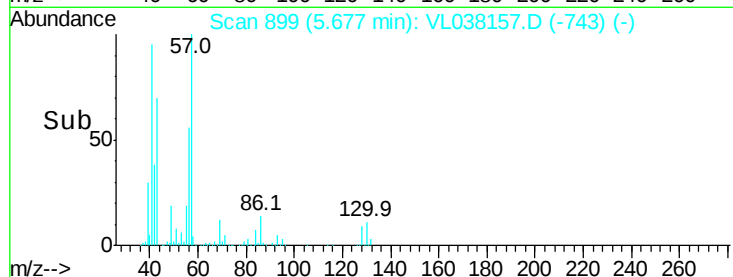
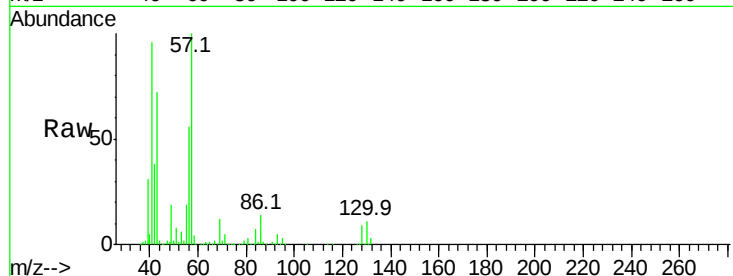
70 4.1 5.8 8.8#

Manual Integrations

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Reviewed By :Amit Patel 12/08/2021

Supervised By :Semsettin Yesilyurt 12/08/2021



#26

Hexane

Concen: 13.208 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL038157.D

Acq: 7 Dec 2021 19:25

Tgt Ion: 57 Resp: 1524706

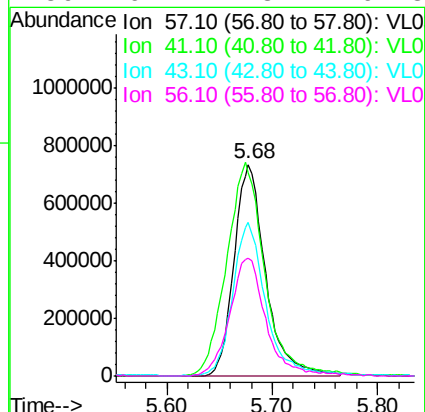
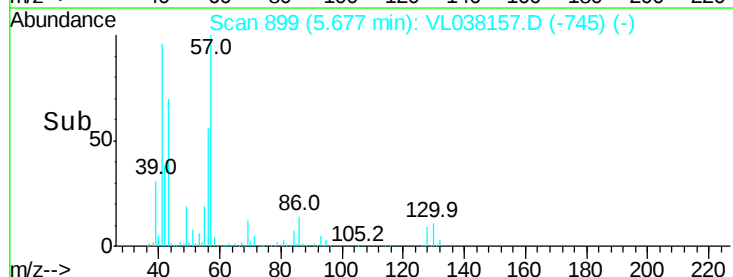
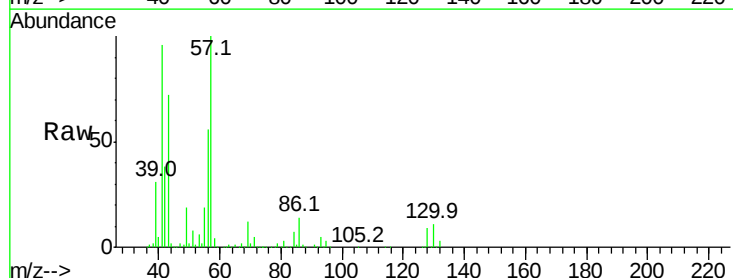
Ion Ratio Lower Upper

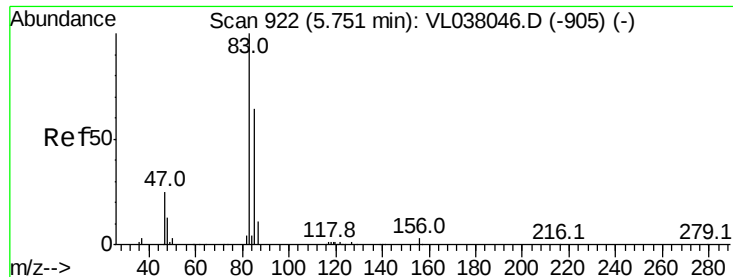
57 100

41 122.3 71.4 107.2#

43 75.9 174.6 261.8#

56 64.1 43.2 64.8



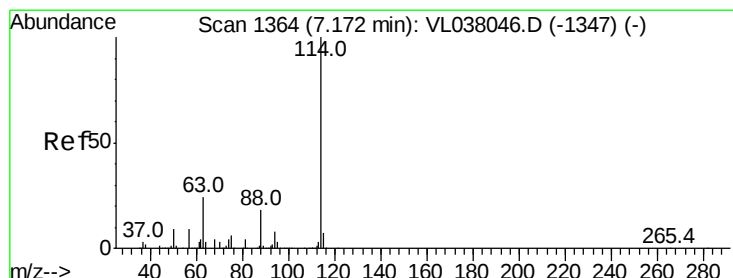
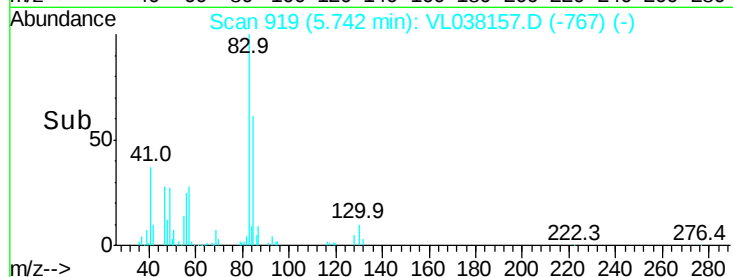
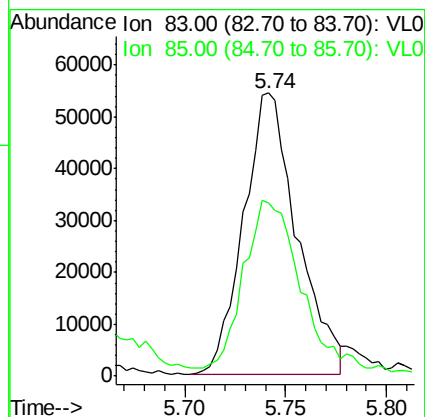
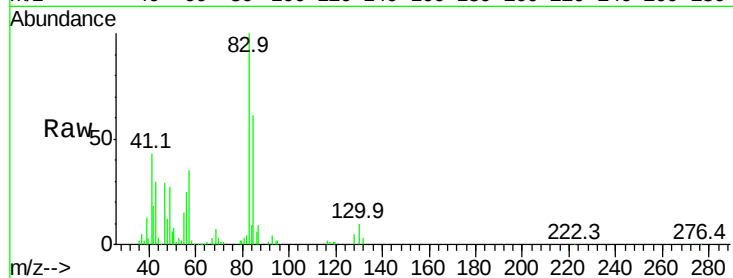


#29
Chloroform
Concen: 0.595 ppbv
RT: 5.74
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Dec 2021 19:25

Tot Ion:
Ion Ratio
83 100
85 58.

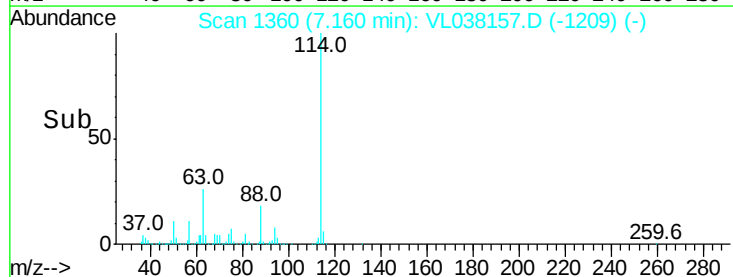
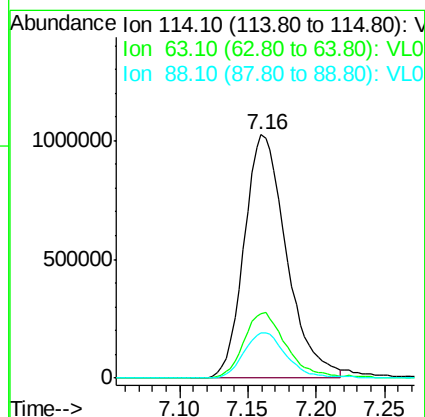
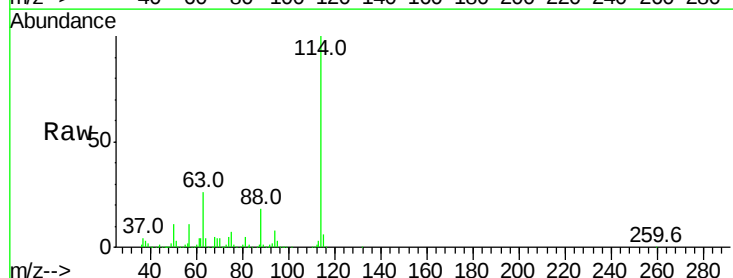
Manual Integrations
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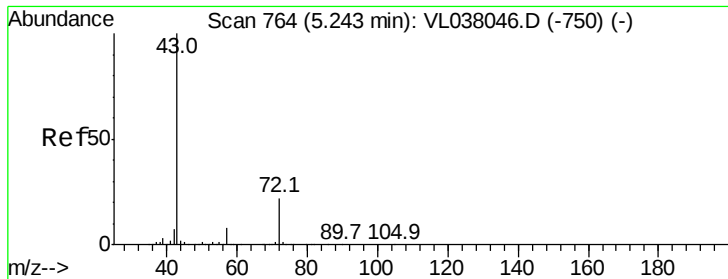
Reviewed By :Amit Patel 12/08/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.01 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

Tgt Ion:114 Resp: 2210247
Ion Ratio Lower Upper
114 100
63 27.5 19.7 29.5
88 19.0 14.4 21.6



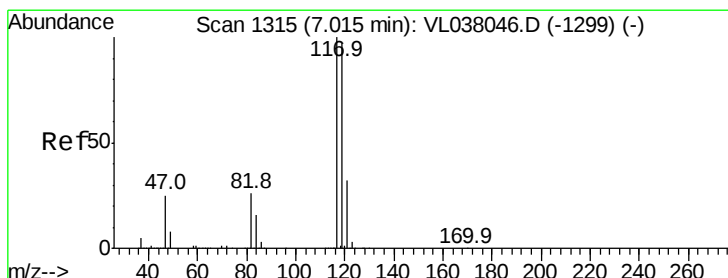
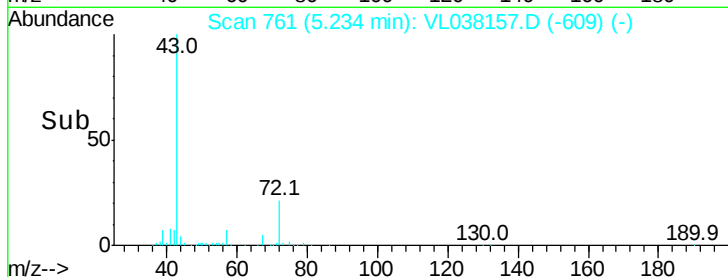
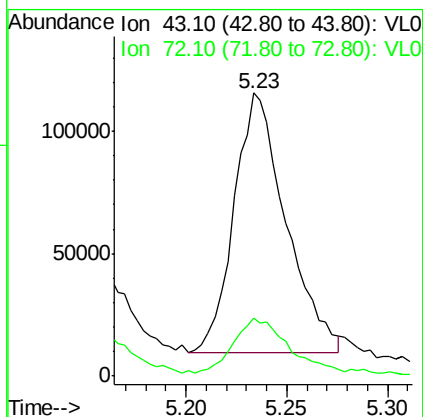
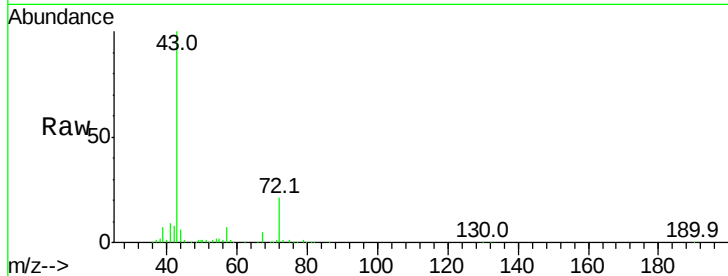


#34
2-Butanone
Concen: 2.152 ppbv
RT: 5.23
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 19:25

Tot Ion:
Ion Ratio
43 100
72 28.

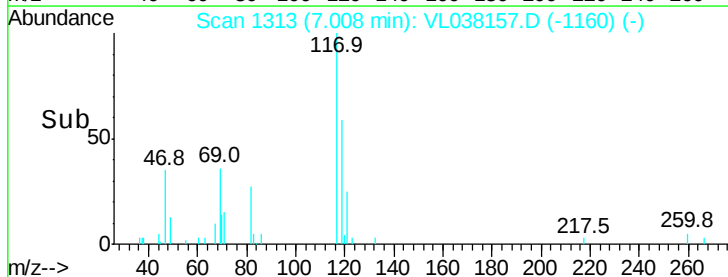
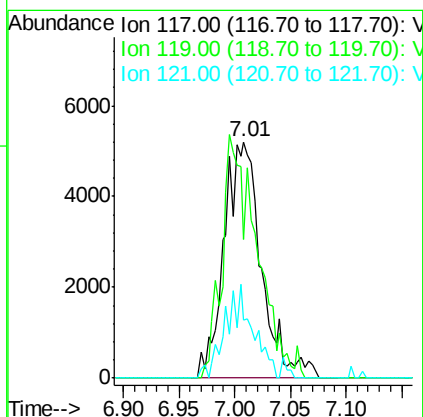
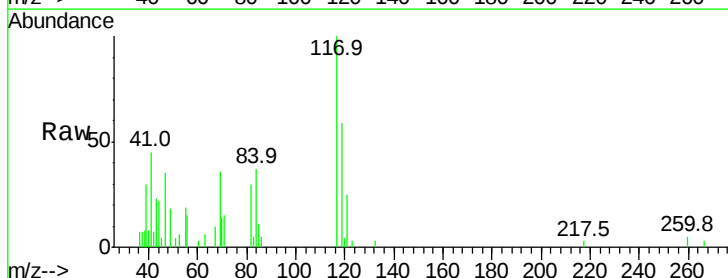
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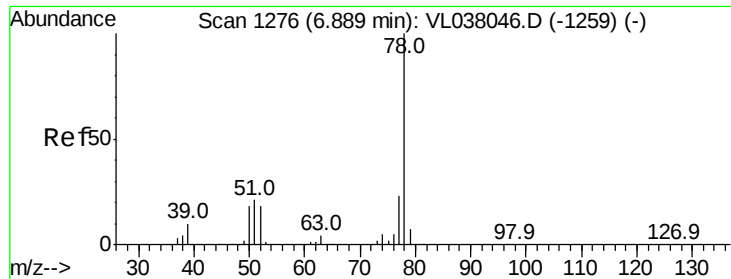
Reviewed By :Amit Patel 12/08/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 7.01 min Scan# 1313
Delta R.T. -0.01 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

Tgt Ion:117 Resp: 12098
Ion Ratio Lower Upper
117 100
119 58.7 77.7 116.5#
121 24.5 25.6 38.4#



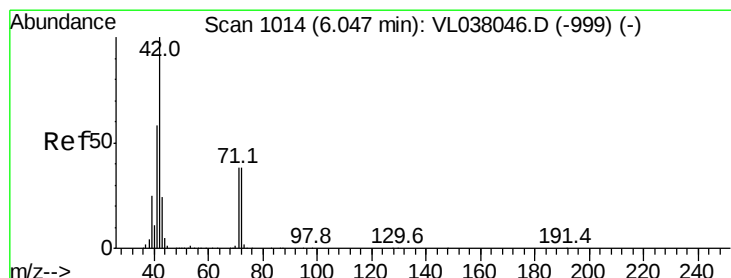
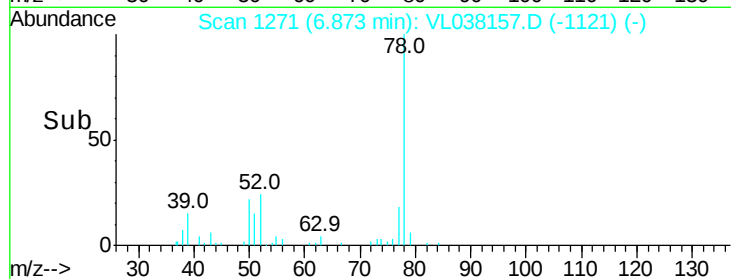
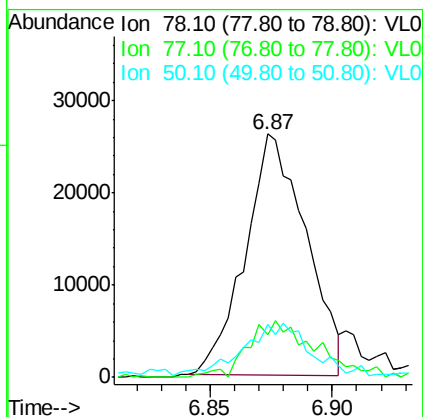
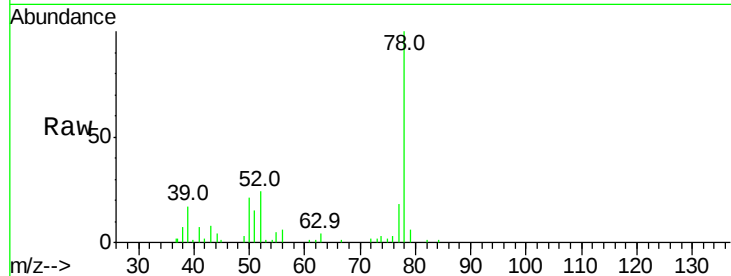


#36
Benzene
Concen: 0.205 ppbv
RT: 6.87
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Dec 2021 19:25

Tot Ion:
Ion Ratio
78 100
77 18.
50 16.

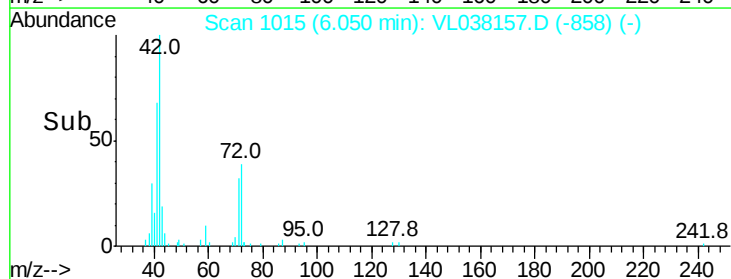
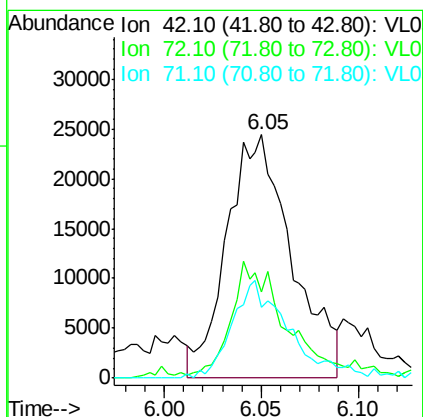
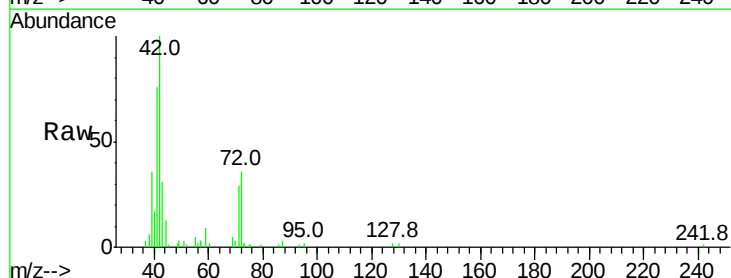
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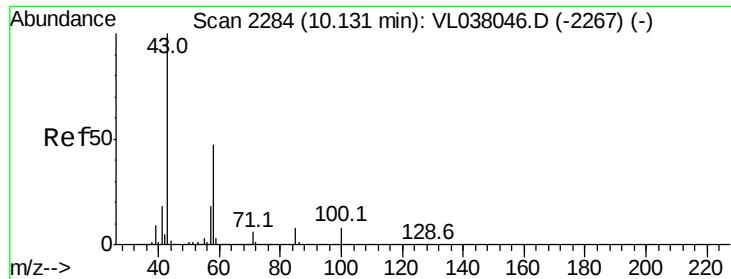
Reviewed By :Amit Patel 12/08/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#41
Tetrahydrofuran
Concen: 1.027 ppbv m
RT: 6.05 min Scan# 1015
Delta R.T. 0.00 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

Tgt Ion: 42 Resp: 56810
Ion Ratio Lower Upper
42 100
72 45.0 31.7 47.5
71 0.0 30.6 46.0#



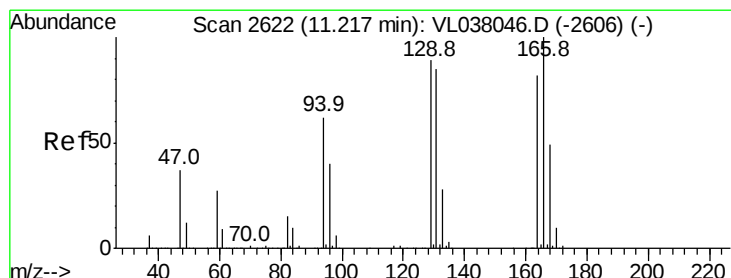
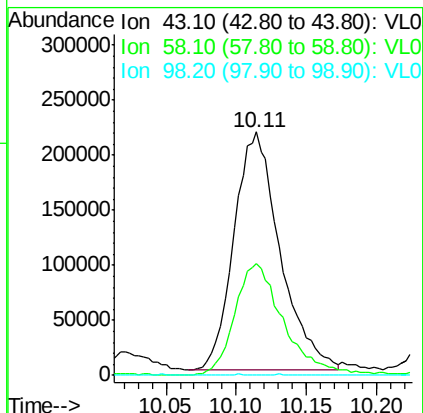
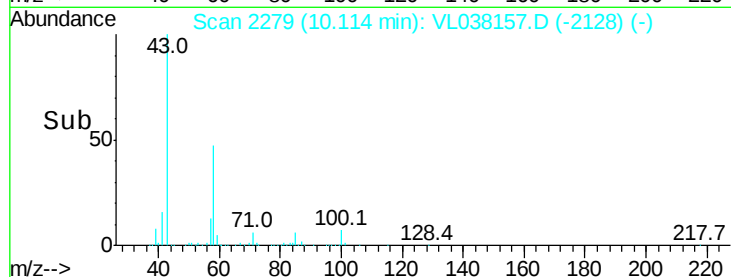
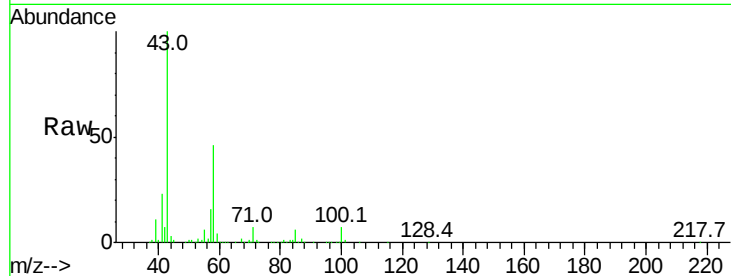


#51
2-Hexanone
Concen: 7.750 ppbv
RT: 10.11 min
Delta R.T.: MSVOA_L
Lab File: ClientSampleId : SV-1
Acq: 7 Dec 2021 19:25

Tot Ion:
Ion Ratio
43 100
58 49.1
98 0.0

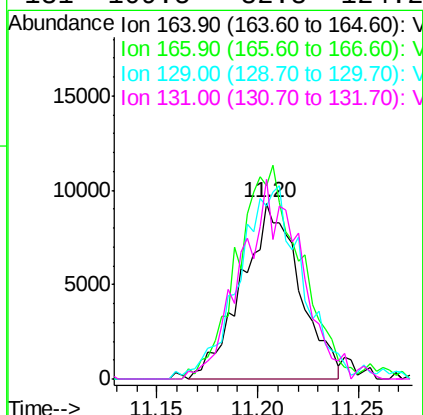
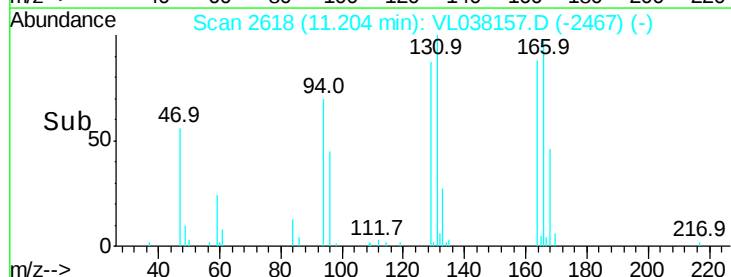
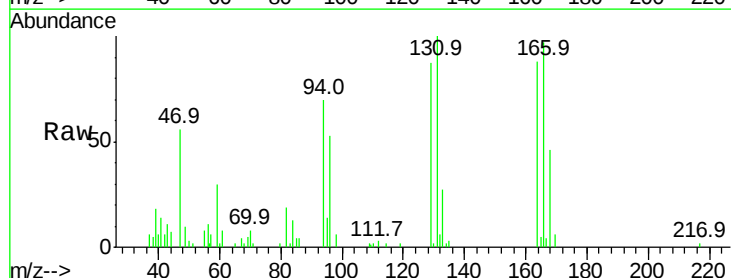
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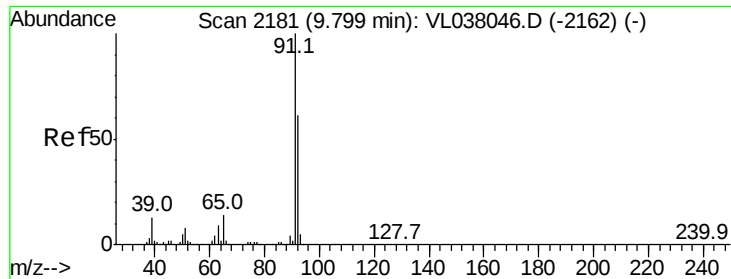
Reviewed By :Amit Patel 12/08/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#52
Tetrachloroethene
Concen: 0.227 ppbv
RT: 11.20 min Scan# 2618
Delta R.T.: -0.01 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

Tgt Ion:164 Resp: 18479
Ion Ratio Lower Upper
164 100
166 104.0 97.2 145.8
129 93.9 86.9 130.3
131 109.5 82.8 124.2





#53

Toluene

Concen: 0.791 ppbv

RT: 9.79 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Dec 2021 19:25 SV-1

Tot Ion:

Ion Ratio

91 100

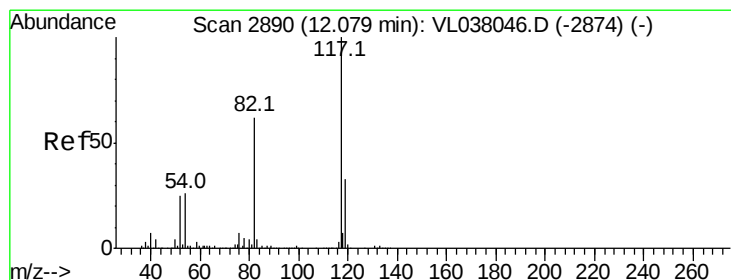
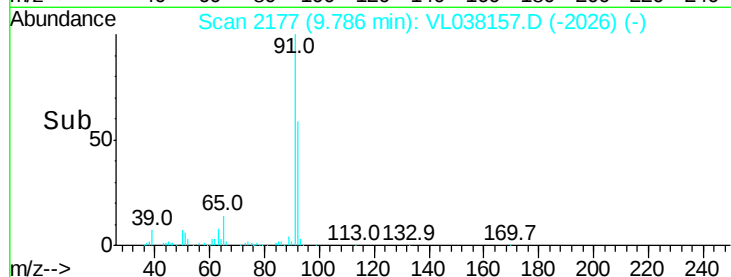
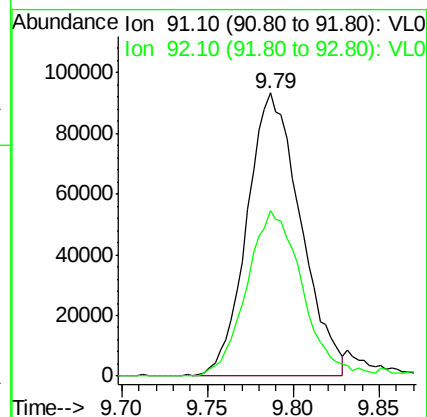
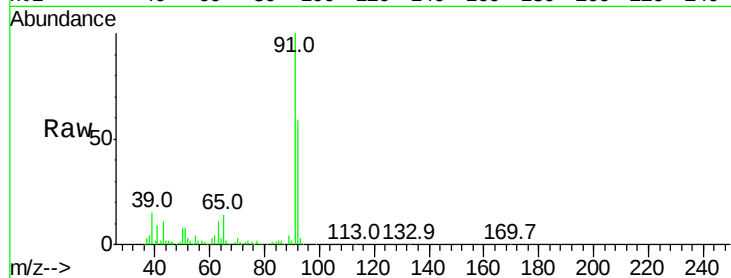
92 63.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/08/2021

Supervised By :Semsettin Yesilyurt 12/08/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.01 min

Lab File: VL038157.D

Acq: 7 Dec 2021 19:25

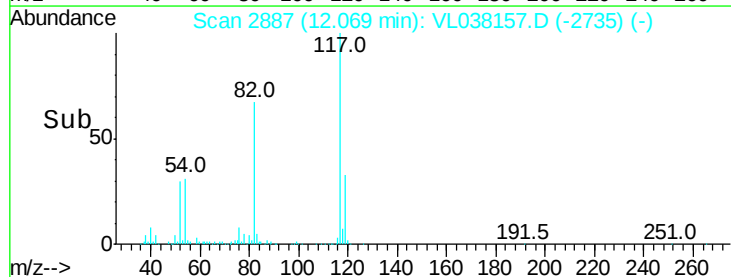
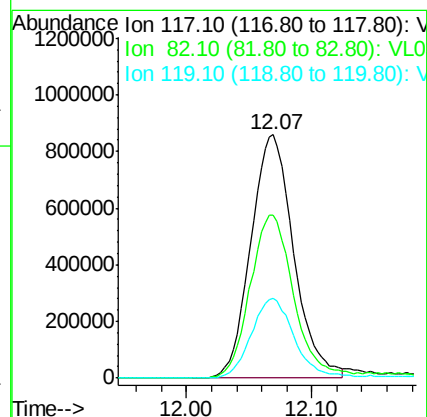
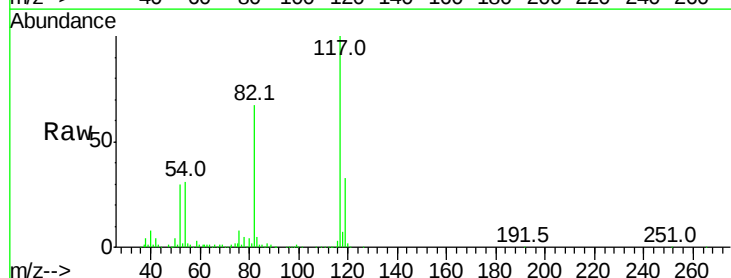
Tgt Ion:117 Resp: 2041175

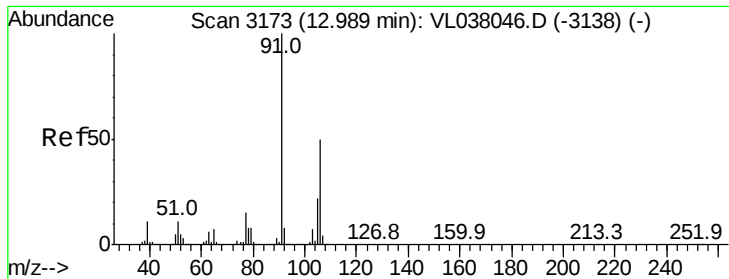
Ion Ratio Lower Upper

117 100

82 72.4 52.8 79.2

119 34.5 26.8 40.2



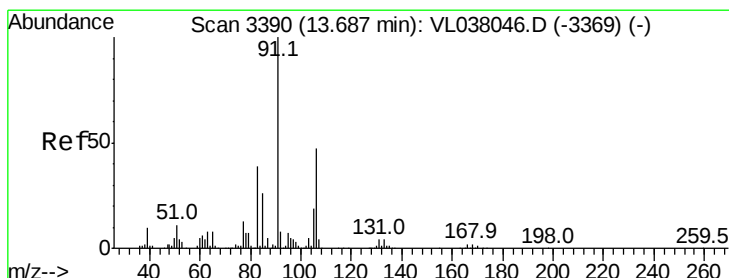
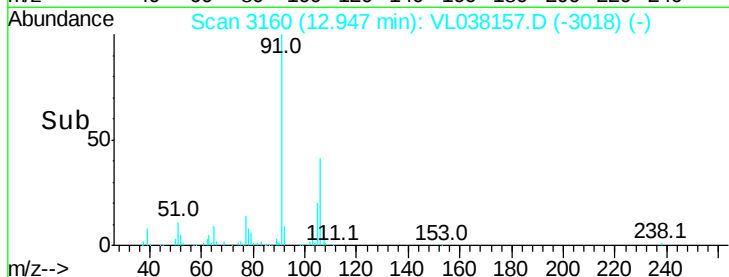
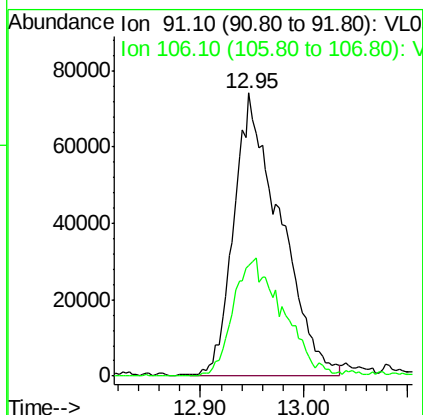
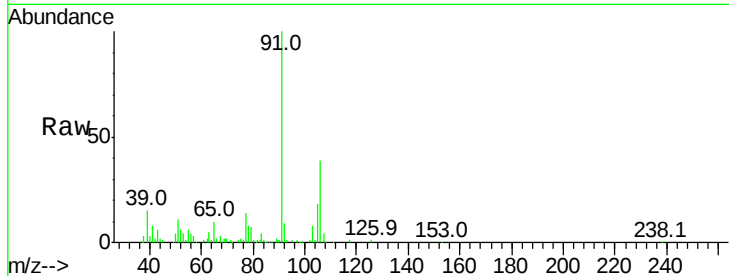


#59
m/p-Xylene
Concen: 0.813 ppbv m
RT: 12.95
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV-1
Acq: 7 Dec 2021 19:25

Tot Ion:
Ion Ratio
91 100
106 0.

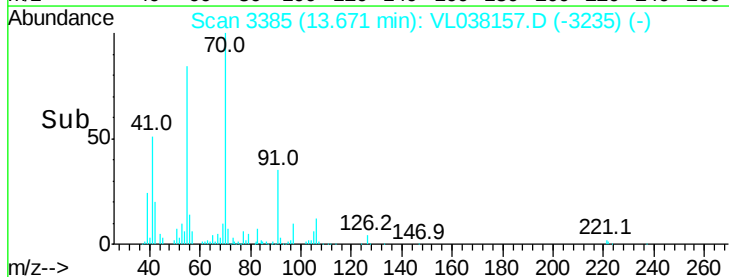
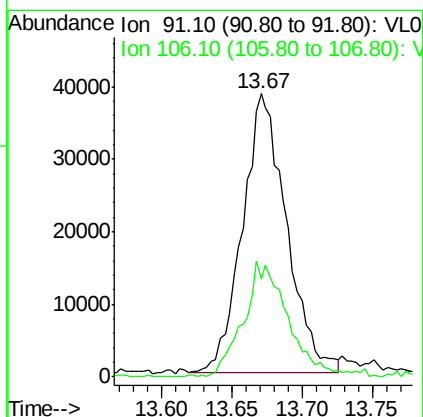
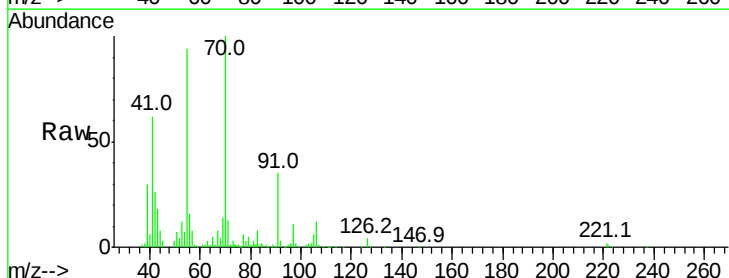
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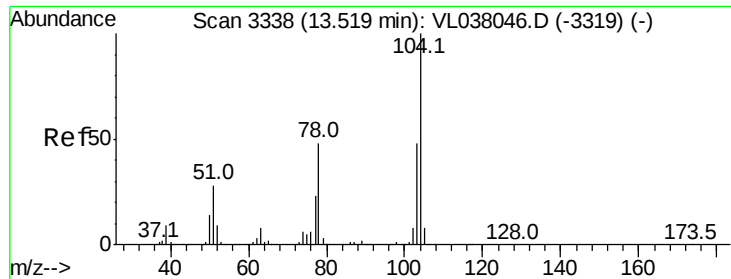
Reviewed By :Amit Patel 12/08/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#60
o-Xylene
Concen: 0.317 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.02 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

Tgt Ion: 91 Resp: 83459
Ion Ratio Lower Upper
91 100
106 42.6 24.2 72.6



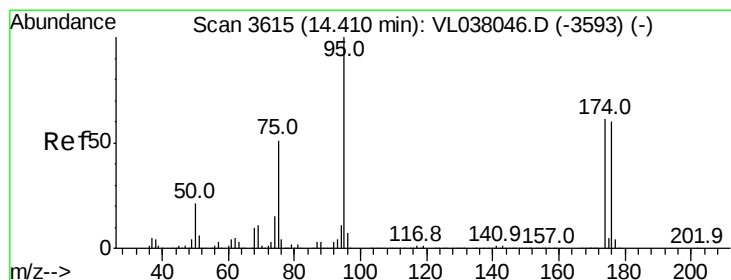
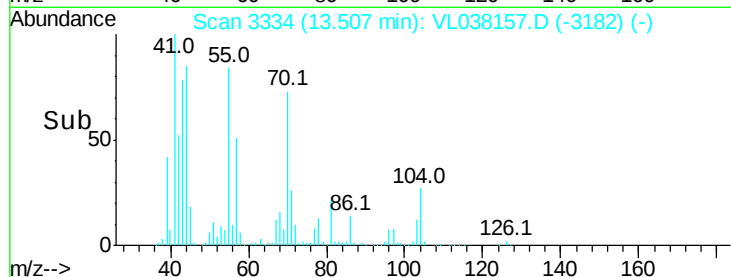
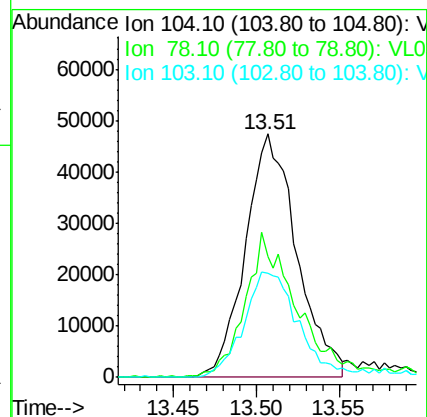
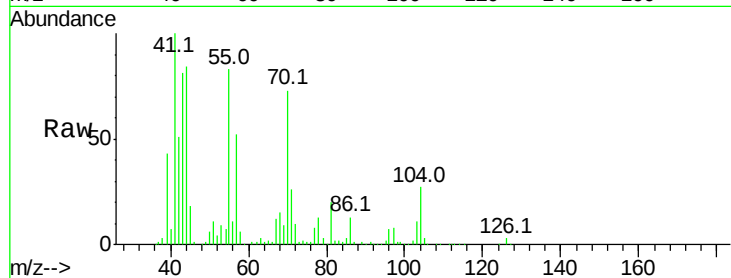


#61
Stvrene
Concen: 0.723 ppbv
RT: 13.51
Delta R.T.: MSVOA_L
Lab File: ClientSampleId : SV-1
Acq: 7 Dec 2021 19:25

Tot Ion: 1
Ion Ratio
104 100
78 62.
103 46.

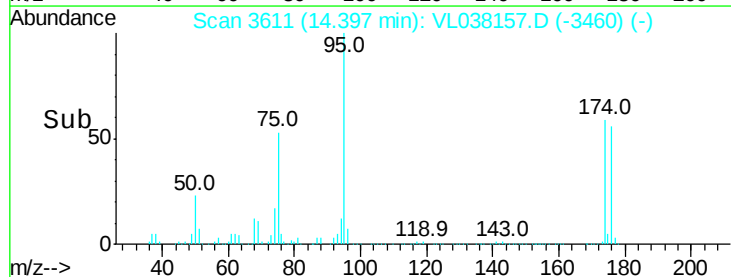
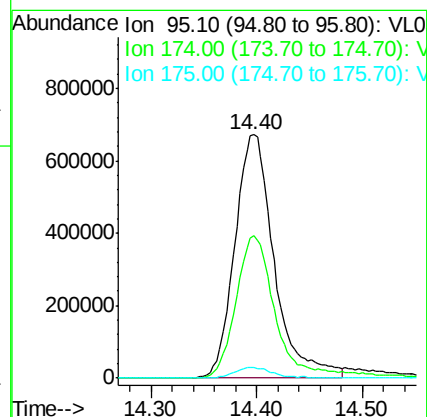
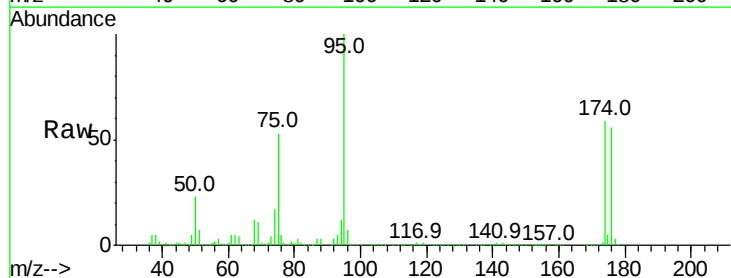
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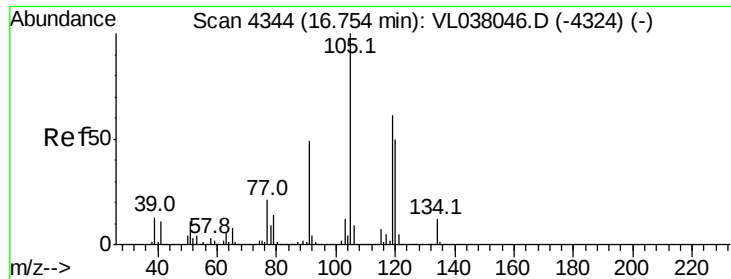
Reviewed By :Amit Patel 12/08/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



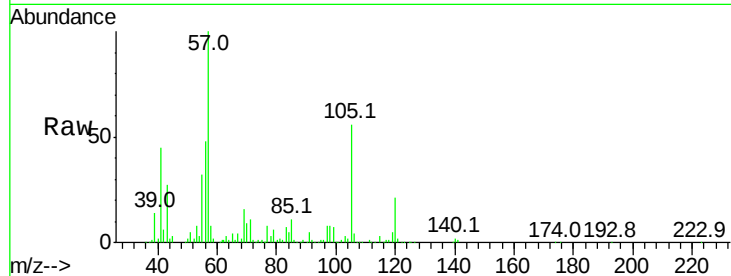
#68
1-Bromo-4-Fluorobenzene
Concen: 11.839 ppbv
RT: 14.40 min Scan# 3611
Delta R.T.: -0.01 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

Tgt Ion: 95 Resp: 1743122
Ion Ratio Lower Upper
95 100
174 60.5 53.1 79.7
175 4.4 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.588 ppbv
 RT: 16.74
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SV-1
 Acq: 7 Dec 2021 19:25



Tot Ion:1
 Ion Rati
 105 100
 120 37.
 91 7.
 77 12.2 16.6 25.0#

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/08/2021
 Supervised By :Semsettin Yesilyurt 12/08/2021

