

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038167.D
 Acq On : 14 Dec 2021 15:29
 Operator : SY/AP
 Sample : M5045-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-6BDUP

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/15/2021
 Supervised By :Semsettin Yesilyurt 12/16/2021

Quant Time: Dec 15 06:07:31 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	5.64	49	890392	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	2417685	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.04	117	2043161	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	1621689	11.00	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	45101	0.307	ppbv	100
3) Chlorodifluoromethane	2.97	51	43824m	0.234	ppbv	
4) Chloromethane	3.12	50	24619	0.387	ppbv #	74
9) Propene	3.01	41	40123m	0.583	ppbv	
11) Trichlorofluoromethane	3.92	101	31117m	0.222	ppbv	
13) Ethanol	3.60	45	645869	97.052	ppbv	90
15) Acetone	3.83	43	1091116	14.134	ppbv	97
19) Isopropyl Alcohol	3.96	45	143954	2.581	ppbv #	87
20) Methylene Chloride	4.32	84	5966015	137.973	ppbv	92
26) Hexane	5.65	57	4300615	34.776	ppbv #	44
34) 2-Butanone	5.22	43	34665m	0.356	ppbv	
35) Carbon Tetrachloride	6.98	117	13449m	0.079	ppbv	
36) Benzene	6.86	78	29179m	0.121	ppbv	
53) Toluene	9.77	91	43423	0.156	ppbv	96
74) 1,2,4-Trimethylbenzene	16.71	105	29804m	0.104	ppbv	

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

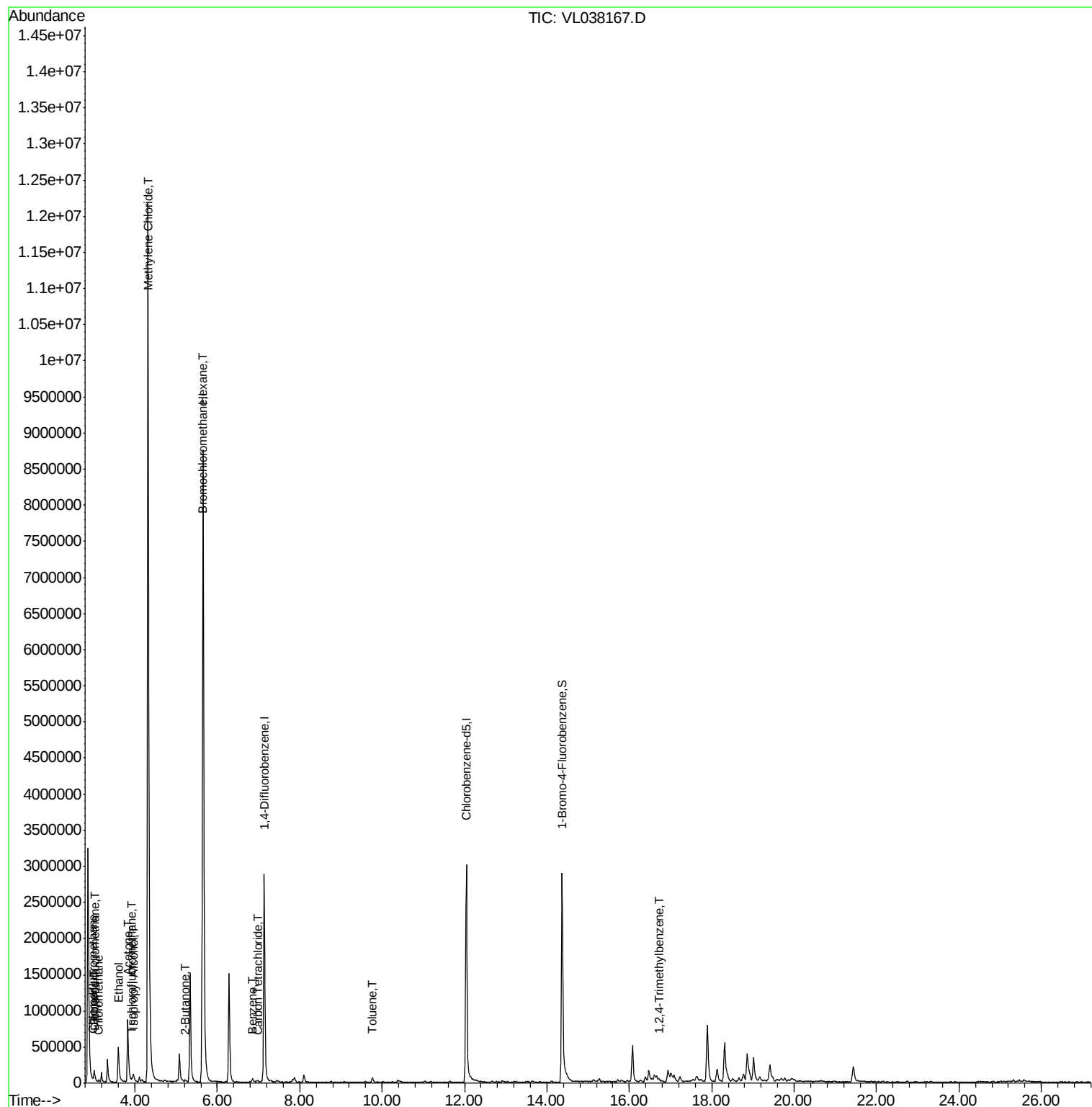
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121421\
Data File : VL038167.D
Acq On : 14 Dec 2021 15:29
Operator : SY/AP
Sample : M5045-01DUP
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

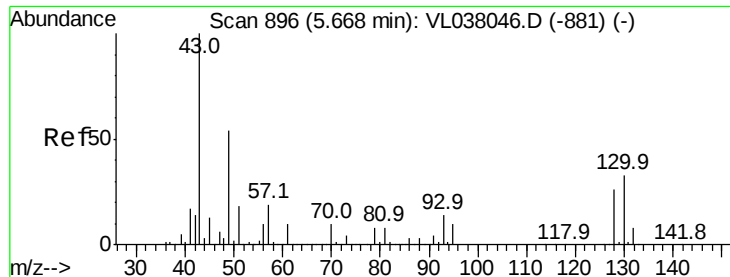
Instrument :
MSVOA_L
ClientSampleId :
IA-6BDUP

Quant Time: Dec 15 06:07:31 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: 5.64 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

Acq: 14 Dec 2021 15:29

Tot Ion:

Ion Ratio

49 100

128 47.

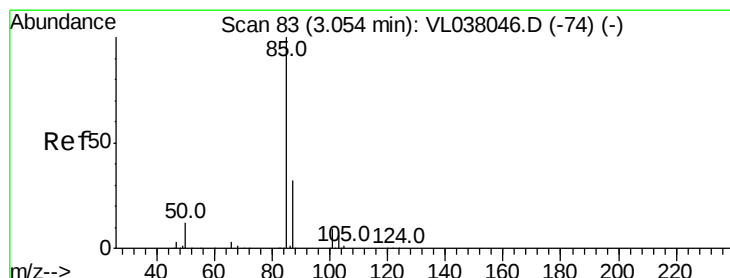
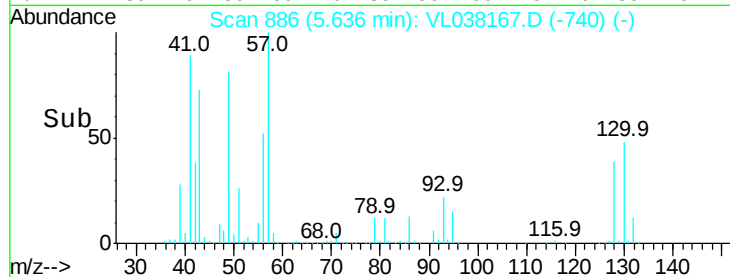
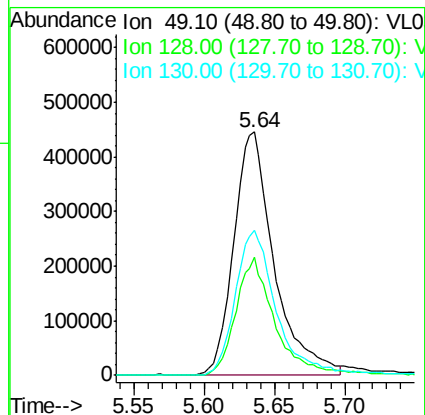
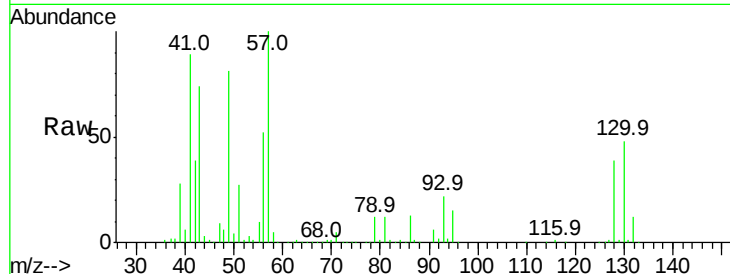
130 62.

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.307 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL038167.D

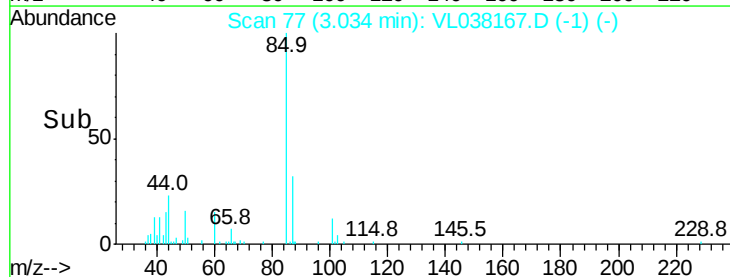
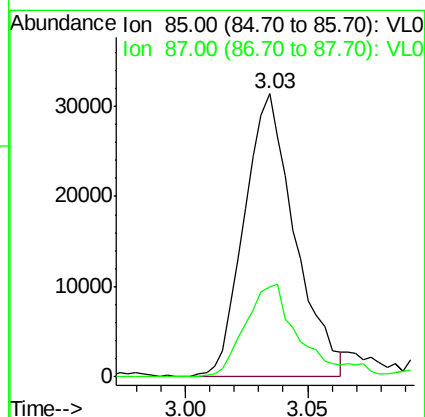
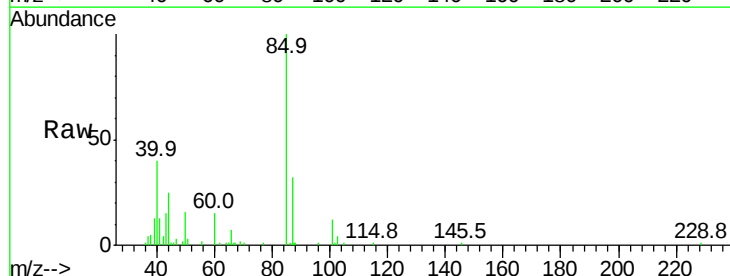
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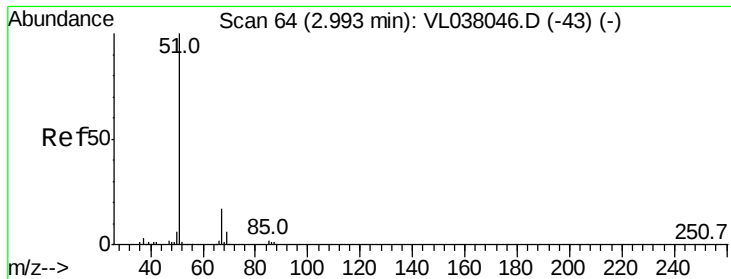
Tgt Ion: 85 Resp: 45101

Ion Ratio Lower Upper

85 100

87 32.4 25.8 38.6



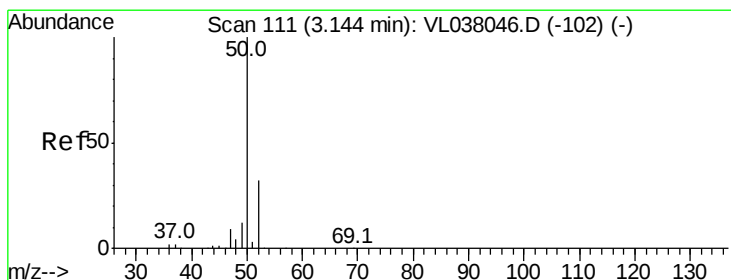
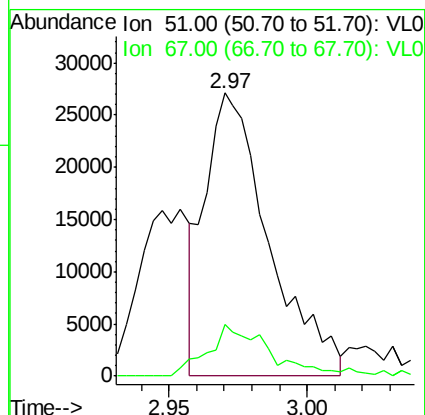
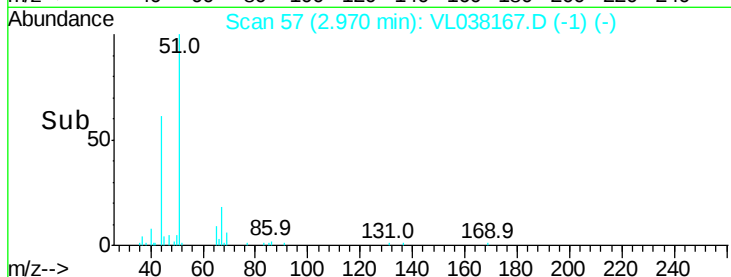
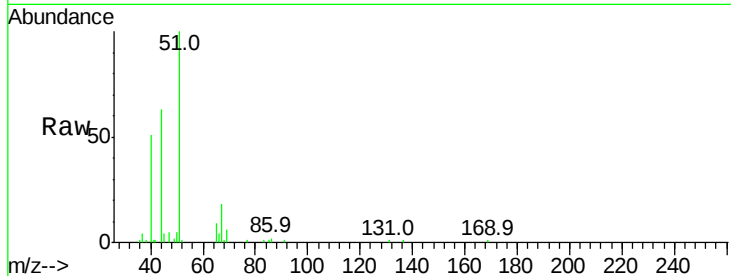


#3
Chlorodifluoromethane
Concen: 0.234 ppbv m
RT: 2.97
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 15:29

Tot Ion:
Ion Ratio
51 100
67 18.

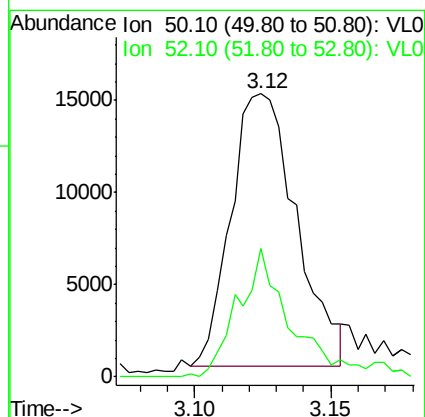
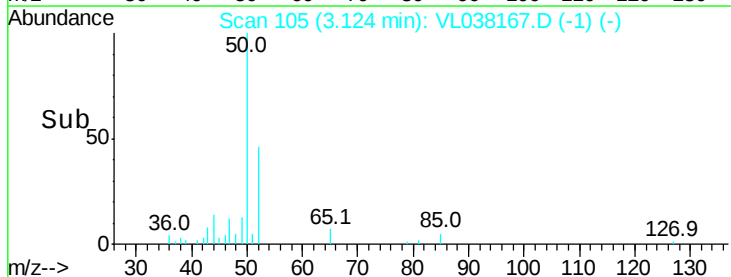
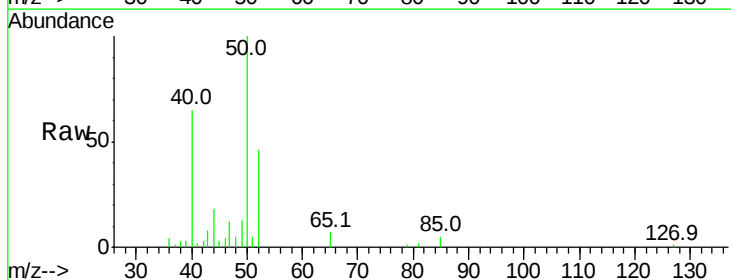
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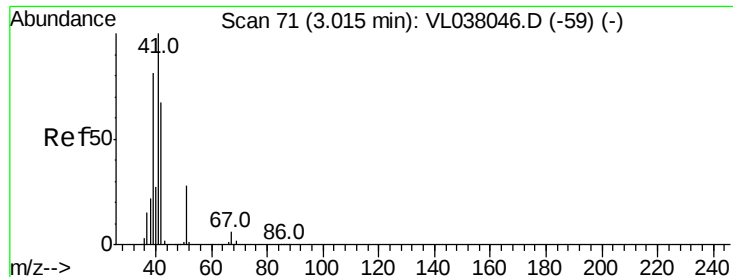
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#4
Chloromethane
Concen: 0.387 ppbv
RT: 3.12 min Scan# 105
Delta R.T. -0.02 min
Lab File: VL038167.D
Acq: 14 Dec 2021 15:29

Tgt Ion: 50 Resp: 24619
Ion Ratio Lower Upper
50 100
52 46.1 25.4 38.0#





#9

Propene

Concen: 0.583 ppbv m

RT: 3.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 15:29

Tot Ion:

Ion Ratio

41 100

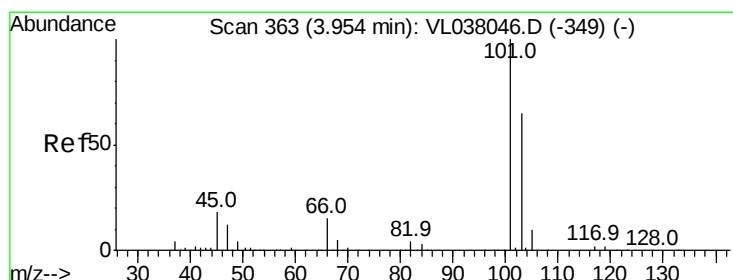
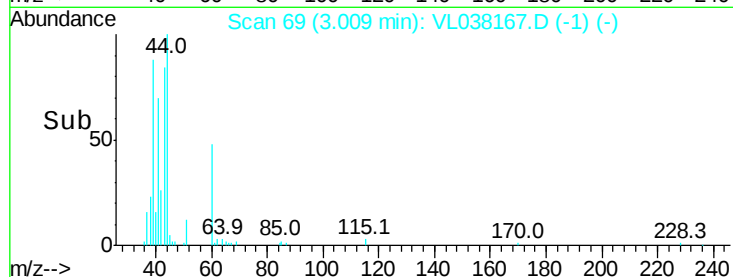
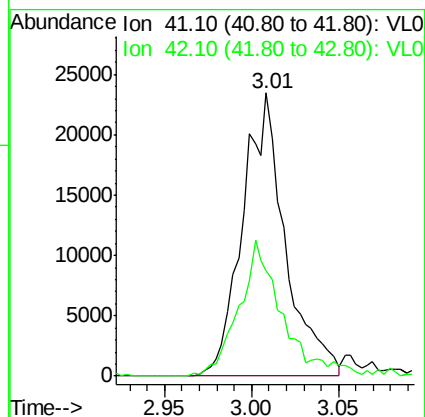
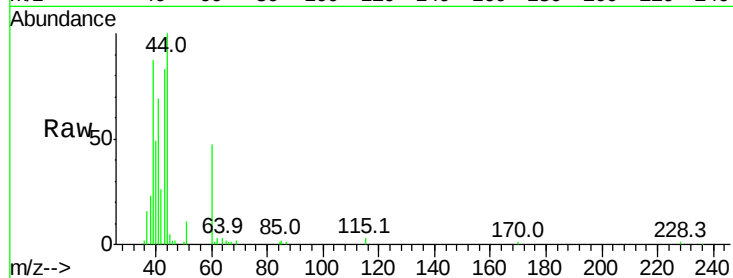
42 71.

Manual Integrations

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#11

Trichlorofluoromethane

Concen: 0.222 ppbv m

RT: 3.92 min Scan# 353

Delta R.T. -0.03 min

Lab File: VL038167.D

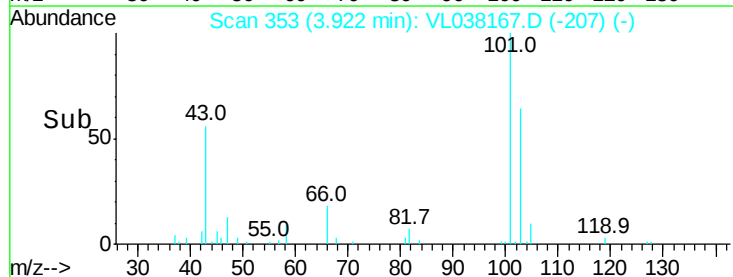
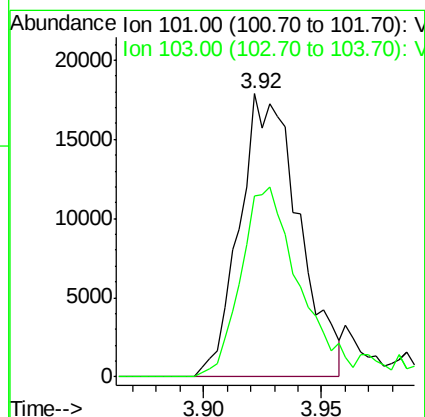
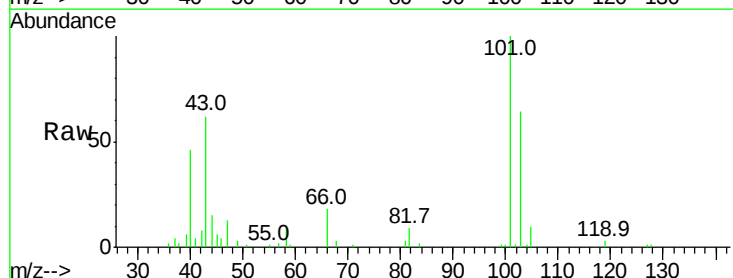
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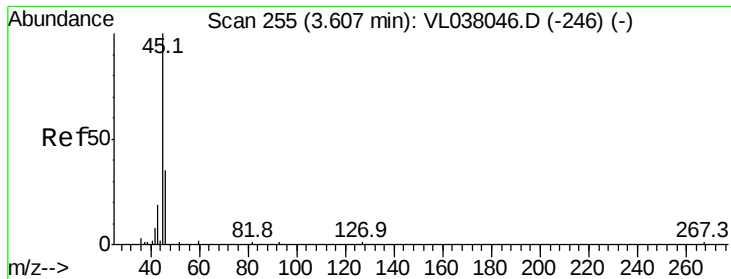
Tgt Ion:101 Resp: 31117

Ion Ratio Lower Upper

101 100

103 64.2 51.8 77.6



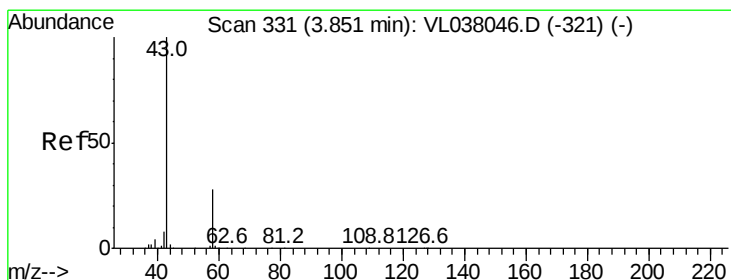
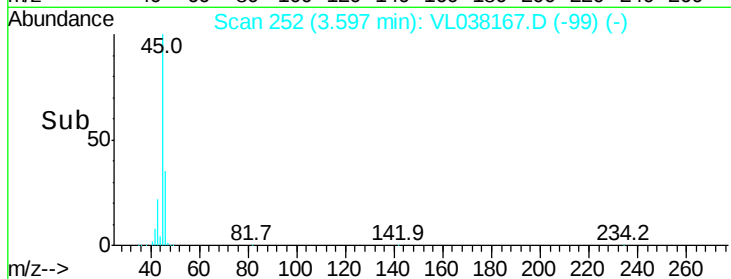
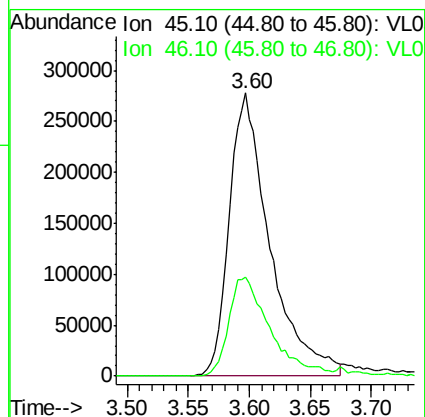
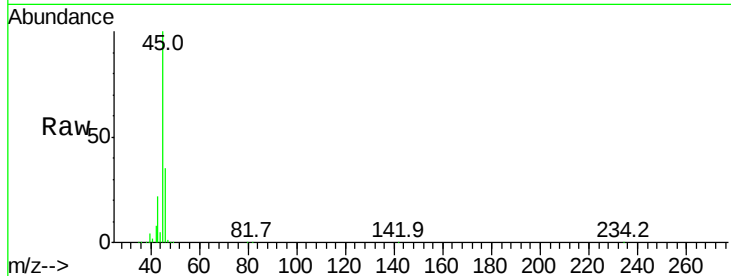


#13
Ethanol
Concen: 97.052 ppbv
RT: 3.60
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 15:29

Tot Ion:
Ion Ratio
45 100
46 37.

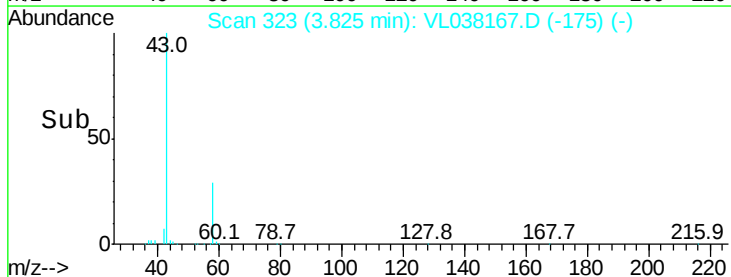
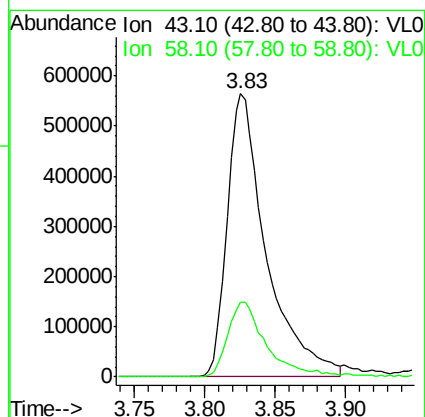
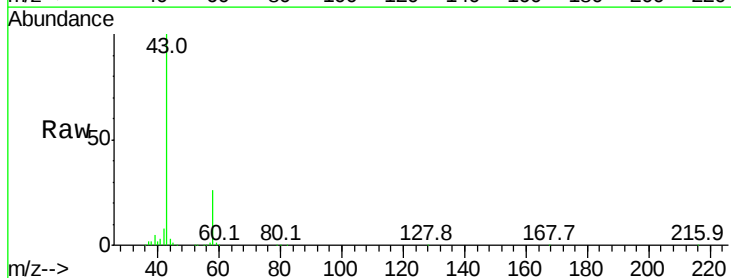
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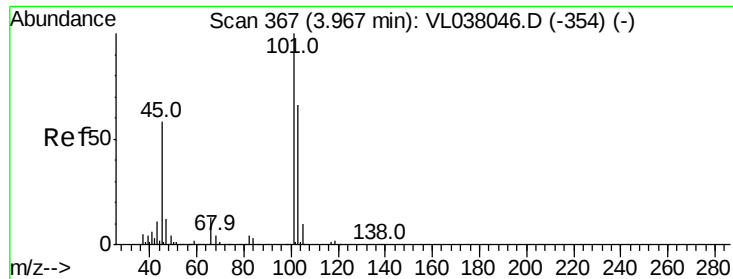
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#15
Acetone
Concen: 14.134 ppbv
RT: 3.83 min Scan# 323
Delta R.T.: -0.03 min
Lab File: VL038167.D
Acq: 14 Dec 2021 15:29

Tgt Ion: 43 Resp: 1091116
Ion Ratio Lower Upper
43 100
58 26.6 22.4 33.6





#19

Isopropyl Alcohol

Concen: 2.581 ppbv

RT: 3.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 15:29

Tot Ion:

Ion Ratio

45 100

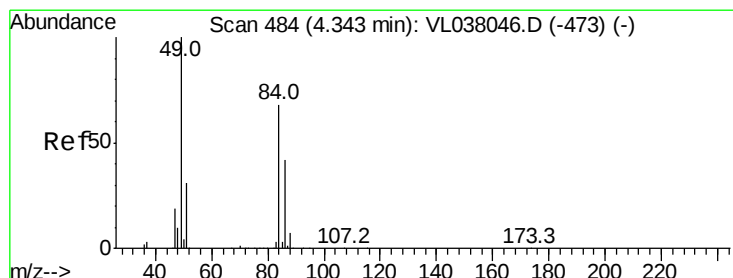
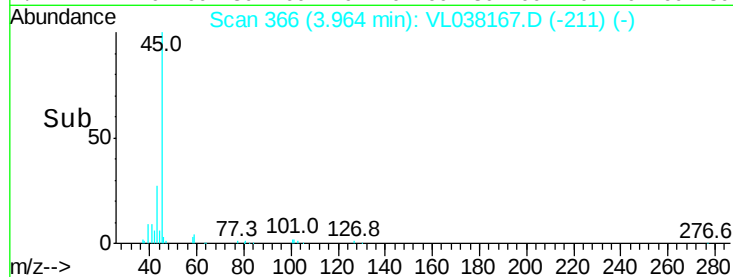
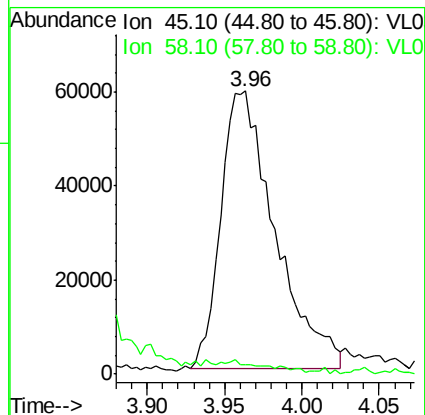
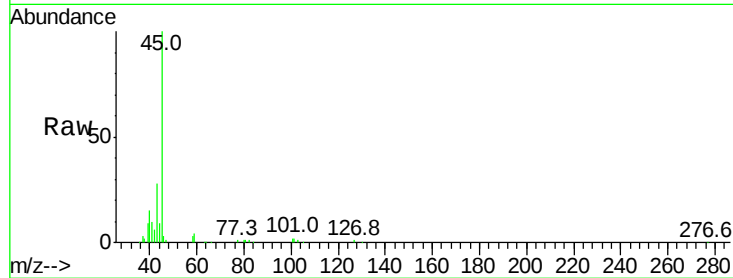
58 6.

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Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#20

Methylene Chloride

Concen: 137.973 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.03 min

Lab File: VL038167.D

Acq: 14 Dec 2021 15:29

Tgt Ion: 84 Resp: 5966015

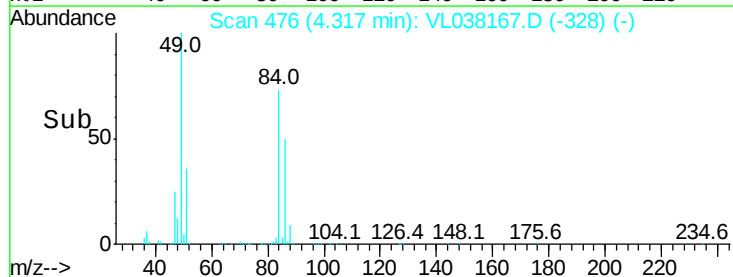
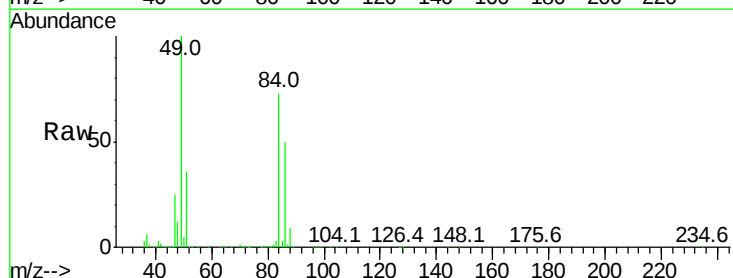
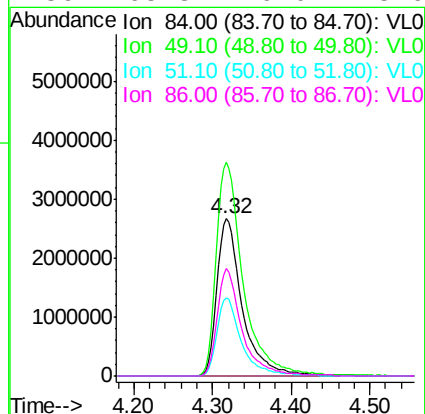
Ion Ratio Lower Upper

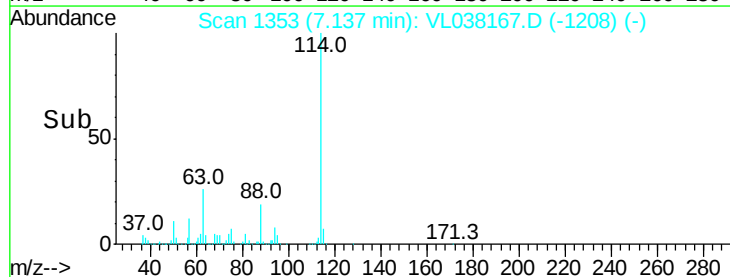
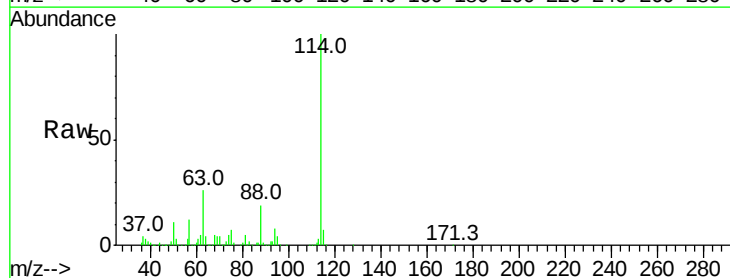
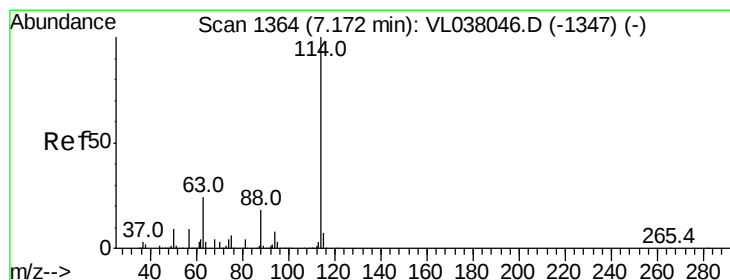
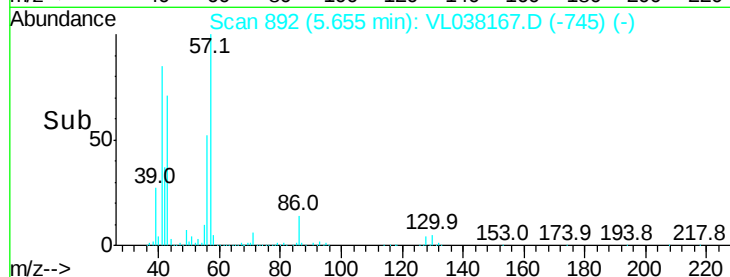
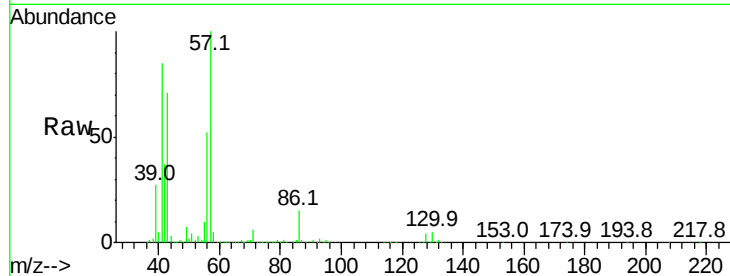
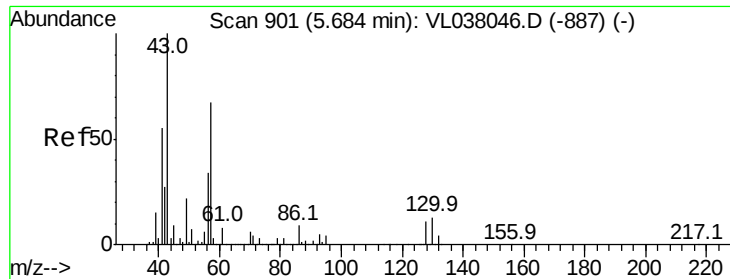
84 100

49 136.1 118.2 177.2

51 49.5 36.8 55.2

86 68.3 49.0 73.6





#26

Hexane

Concen: 34.776 ppbv

RT: 5.65

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 15:29

Tot Ion:

Ion Ratio

57 100

41 87.

43 71.

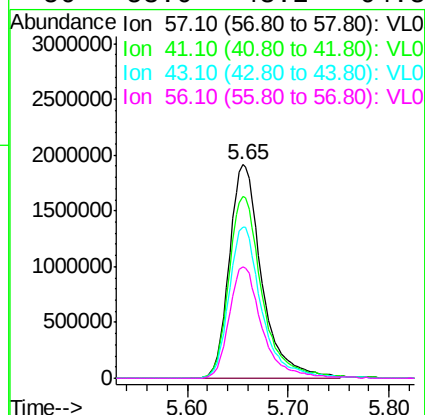
56 53.0

Manual Integrations

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.14 min Scan# 1353

Delta R.T. -0.04 min

Lab File: VL038167.D

Acq: 14 Dec 2021 15:29

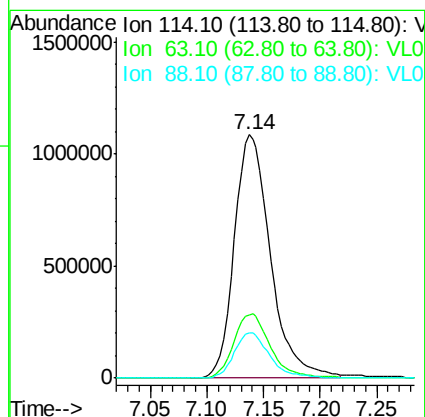
Tgt Ion:114 Resp: 2417685

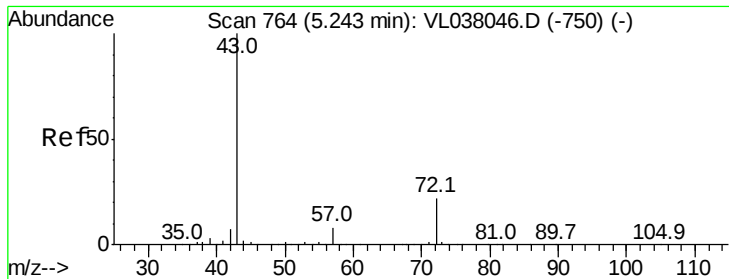
Ion Ratio Lower Upper

114 100

63 27.1 19.7 29.5

88 18.6 14.4 21.6



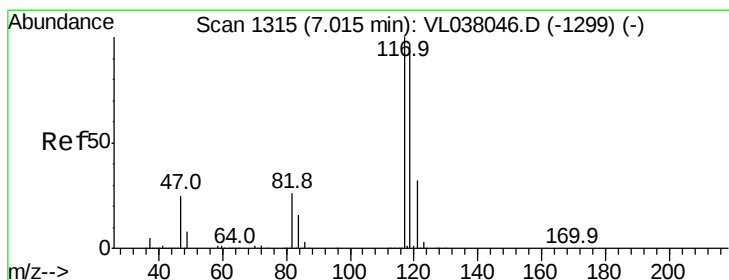
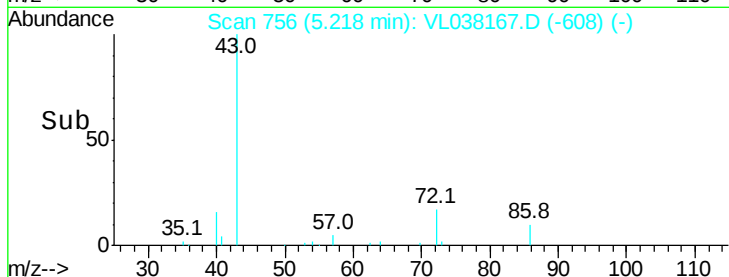
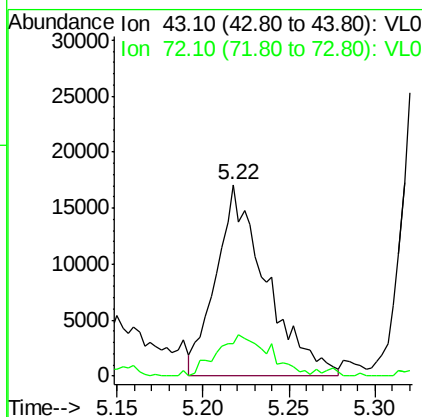
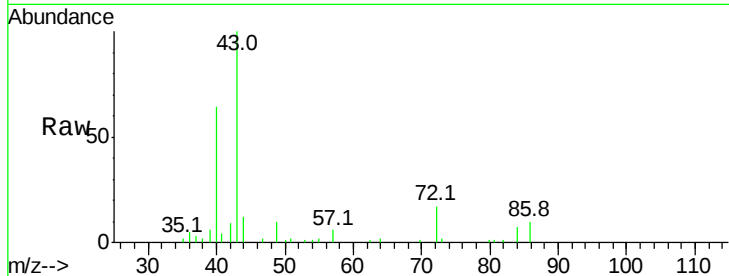


#34
2-Butanone
Concen: 0.356 ppbv m
RT: 5.22
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Dec 2021 15:29

Tot Ion:
Ion Ratio
43 100
72 10.

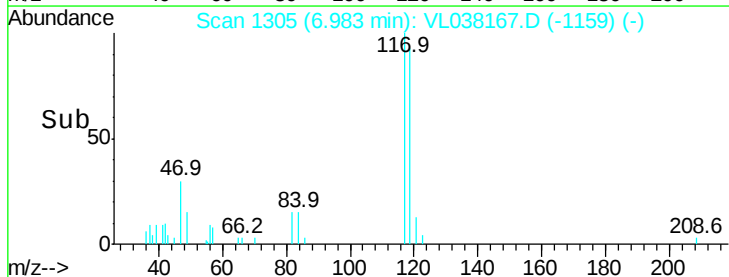
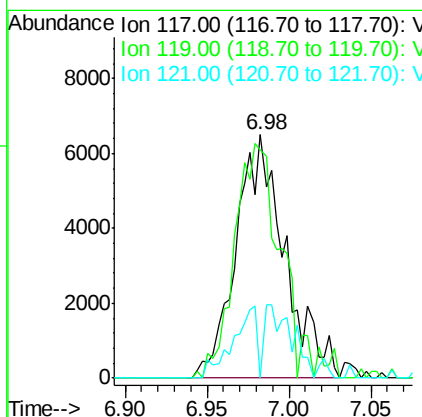
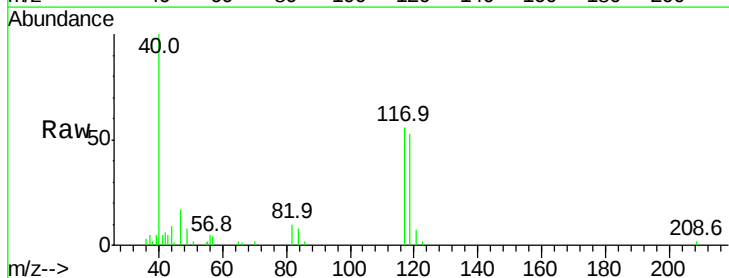
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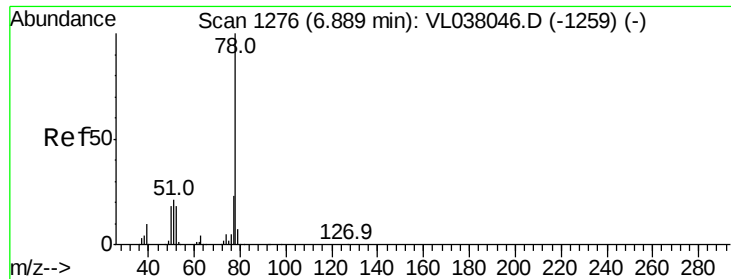
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#35
Carbon Tetrachloride
Concen: 0.079 ppbv m
RT: 6.98 min Scan# 1305
Delta R.T. -0.03 min
Lab File: VL038167.D
Acq: 14 Dec 2021 15:29

Tgt Ion:117 Resp: 13449
Ion Ratio Lower Upper
117 100
119 93.5 77.7 116.5
121 0.0 25.6 38.4#





#36

Benzene

Concen: 0.121 ppbv m

RT: 6.86 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 15:29

Tot Ion:

Ion Ratio

78 100

77 18.

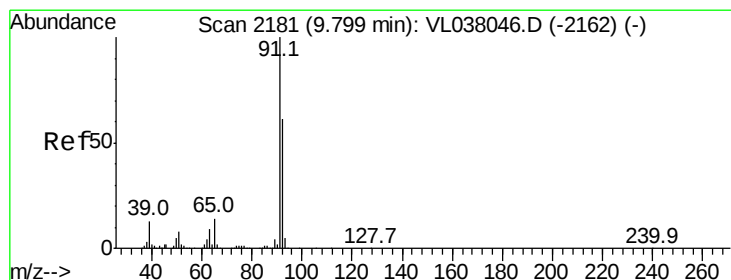
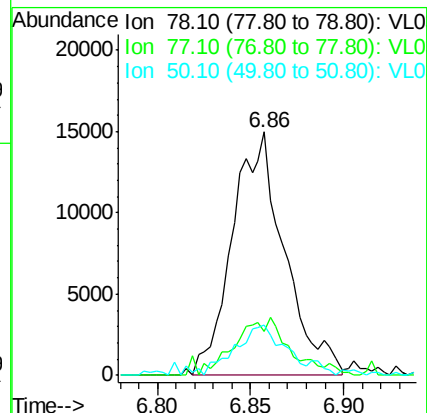
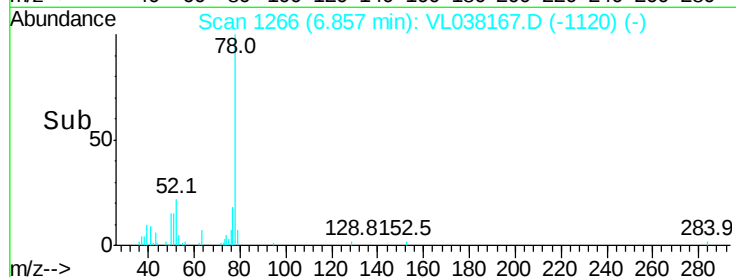
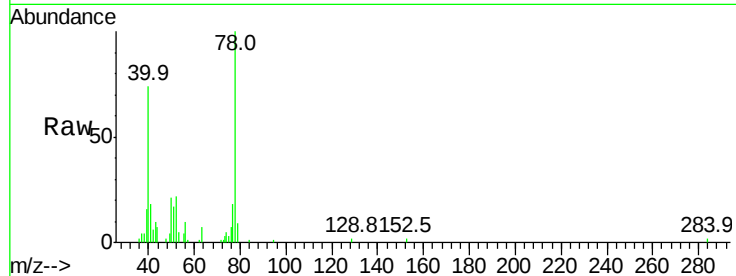
50 20.

Manual Integrations

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Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#53

Toluene

Concen: 0.156 ppbv

RT: 9.77 min Scan# 2171

Delta R.T. -0.03 min

Lab File: VL038167.D

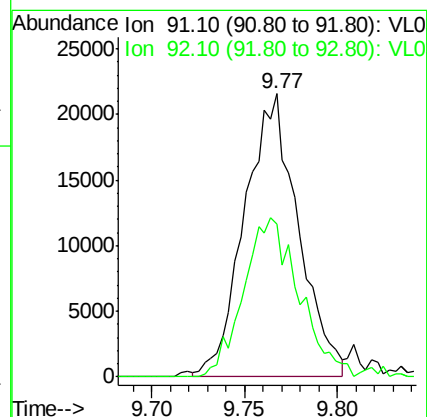
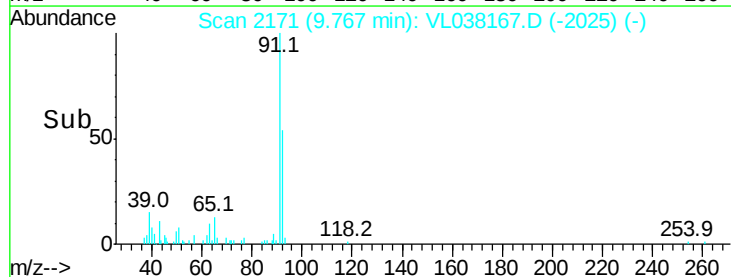
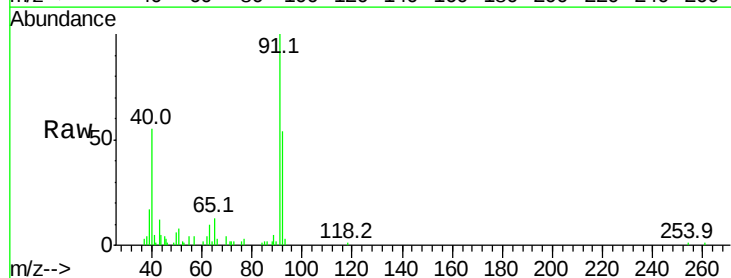
Acq: 14 Dec 2021 15:29

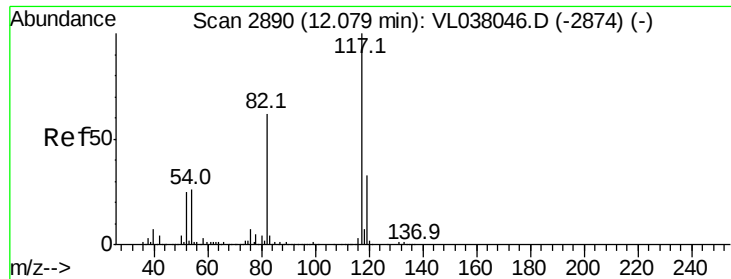
Tgt Ion: 91 Resp: 43423

Ion Ratio Lower Upper

91 100

92 59.3 49.7 74.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.04

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 15:29

Tot Ion:1

Ion Rati

117 100

82 71.

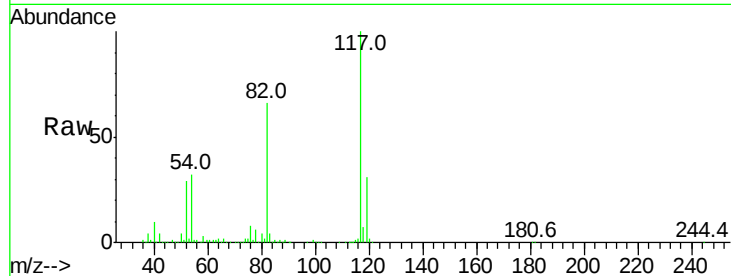
119 33.

Manual Integrations

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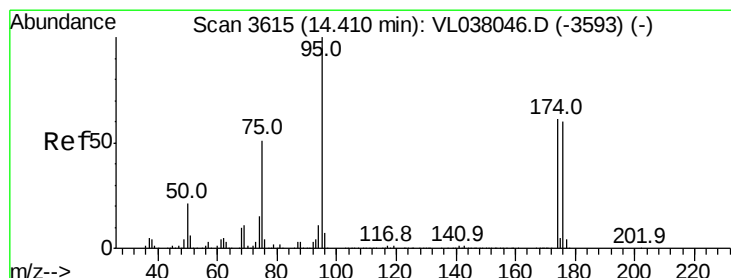
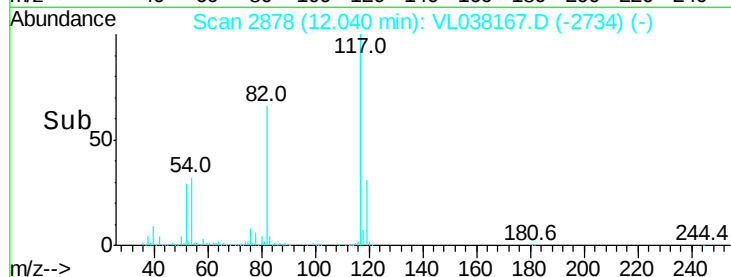
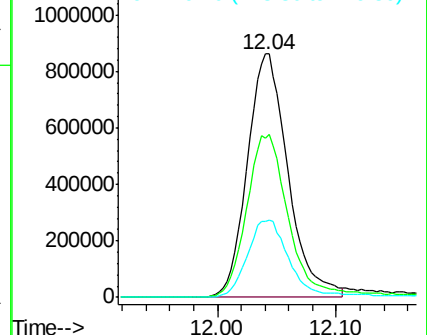
Supervised By :Semsettin Yesilyurt 12/16/2021



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 11.004 ppbv

RT: 14.37 min Scan# 3602

Delta R.T. -0.04 min

Lab File: VL038167.D

Acq: 14 Dec 2021 15:29

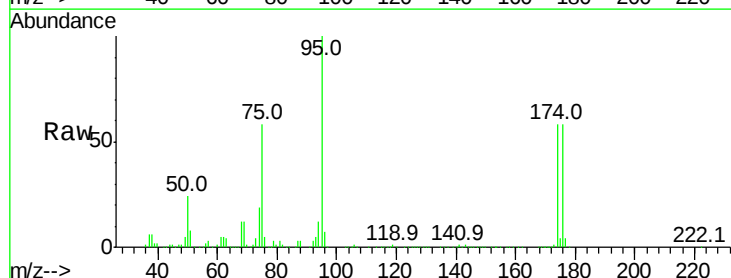
Tgt Ion: 95 Resp: 1621689

Ion Ratio Lower Upper

95 100

174 63.3 53.1 79.7

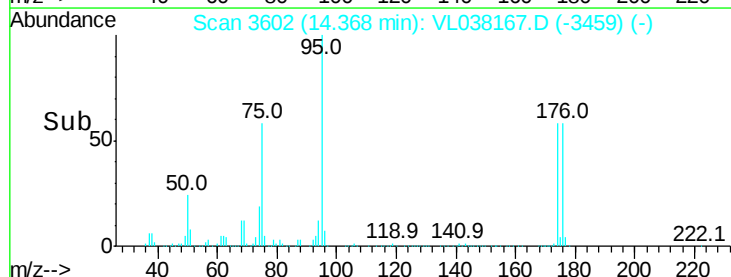
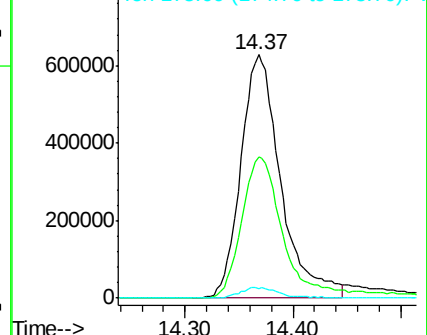
175 4.6 4.0 6.0

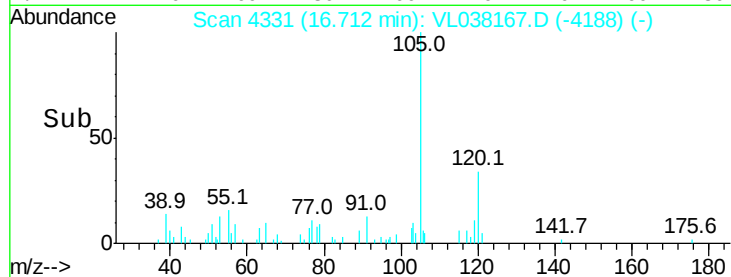
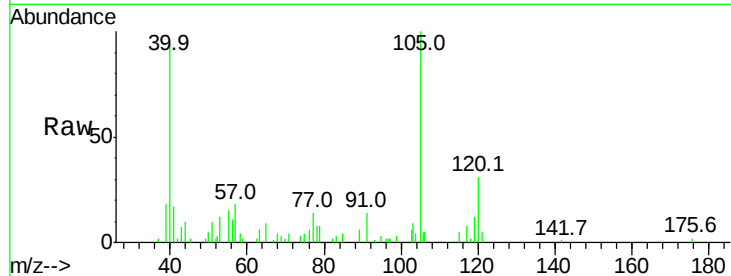
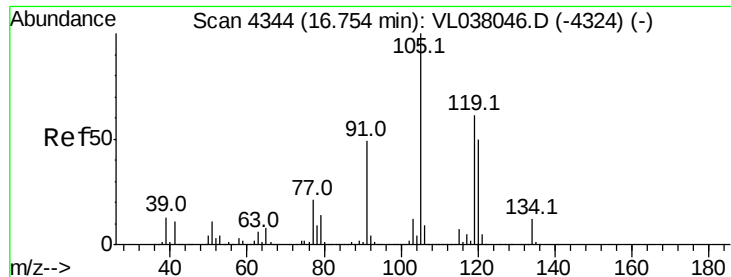


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.104 ppbv m
 RT: 16.71
 Delta R.T.
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 15:29

Tot Ion:1
 Ion Rati
 105 100
 120 31.
 91 13.
 77 14.0 16.6 25.0#

Manual Integrations
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