

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111021\
 Data File : VL038014.D
 Acq On : 10 Nov 2021 18:06
 Operator : SY/AP
 Sample : M4598-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 356-4DL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/11/2021
 Supervised By : Mahesh Dadoda 11/17/2021

Quant Time: Nov 11 05:10:08 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1462855	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4249396	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3557010	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2603960	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

Target Compounds

					Ovalue
3) Chlorodifluoromethane	2.99	51	927636m	3.406	ppbv
9) Propene	3.01	41	84477	0.865	ppbv 98
13) Ethanol	3.61	45	76713m	7.788	ppbv
15) Acetone	3.84	43	1048540	8.674	ppbv 93
17) tert-Butyl alcohol	4.31	59	15699m	0.125	ppbv
18) 1,1-Dichloroethene	4.28	96	23674m	0.322	ppbv
19) Isopropyl Alcohol	3.98	45	38601m	0.499	ppbv
20) Methylene Chloride	4.34	84	227397	3.427	ppbv 90
22) trans-1,2-Dichloroethene	4.88	96	145865	1.994	ppbv # 92
26) Hexane	5.67	57	226029	1.329	ppbv # 47
29) Chloroform	5.74	83	266832	1.052	ppbv 98
31) cis-1,2-Dichloroethene	5.54	61	4760829	30.675	ppbv 98
32) 1,1,1-Trichloroethane	6.50	97	71631m	0.287	ppbv
34) 2-Butanone	5.25	43	551569	3.503	ppbv 99
36) Benzene	6.89	78	48675	0.141	ppbv 98
38) Trichloroethene	7.86	130	32811692	228.446	ppbv # 90
52) Tetrachloroethene	11.37	164	106086659m	808.116	ppbv
53) Toluene	9.80	91	164732m	0.444	ppbv
58) Ethyl Benzene	12.73	91	50517m	0.116	ppbv
59) m/p-Xylene	12.98	91	164157m	0.425	ppbv
60) o-Xylene	13.70	91	57936m	0.159	ppbv
74) 1,2,4-Trimethylbenzene	16.75	105	42436m	0.104	ppbv

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

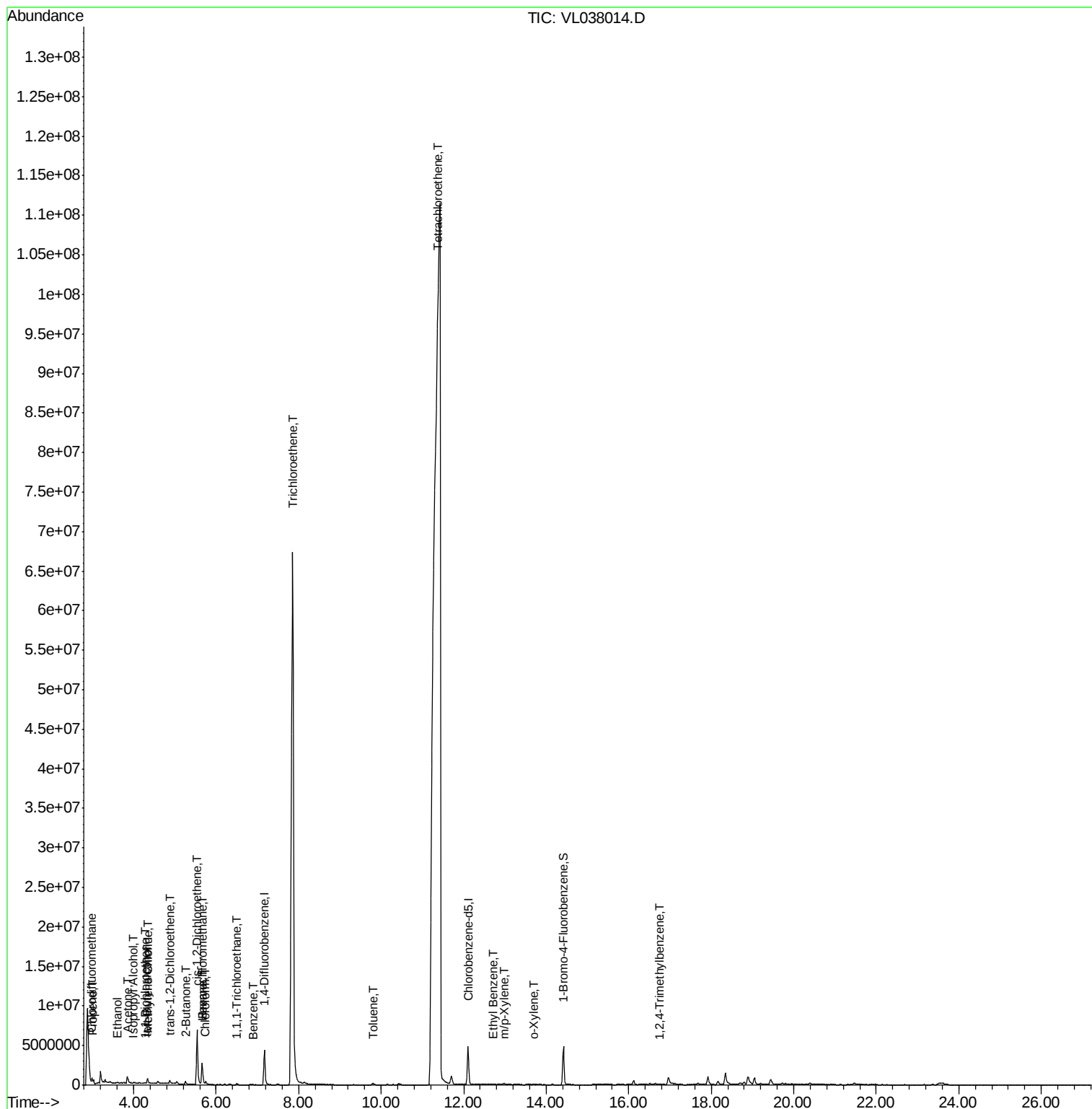
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111021\
Data File : VL038014.D
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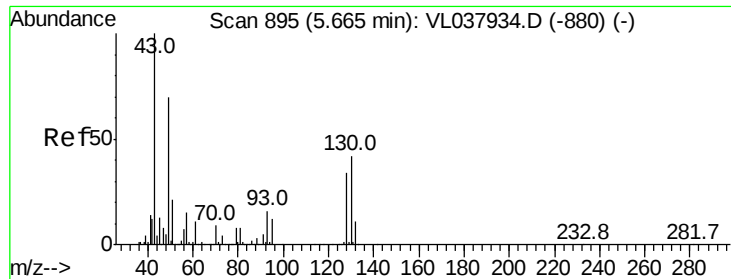
Instrument :
MSVOA_L
ClientSampleId :
356-4DL

Manual Integrations
APPROVED

Quant Time: Nov 11 05:10:08 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Tue Nov 02 05:54:07 2021
Response via : Initial Calibration

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Supervised By :Mahesh Dadoda 11/17/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 356-4DL

Acq: 10 Nov 2021 18:00

Tot Ion:

Ion Ratio

49 100

128 51.

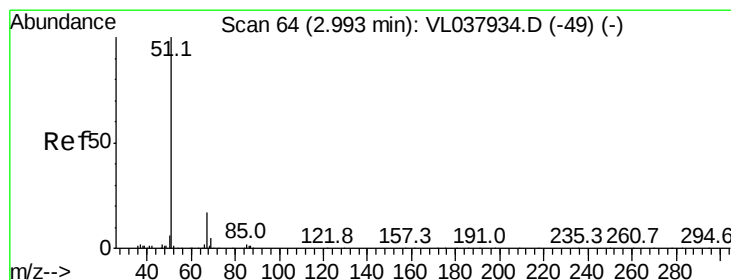
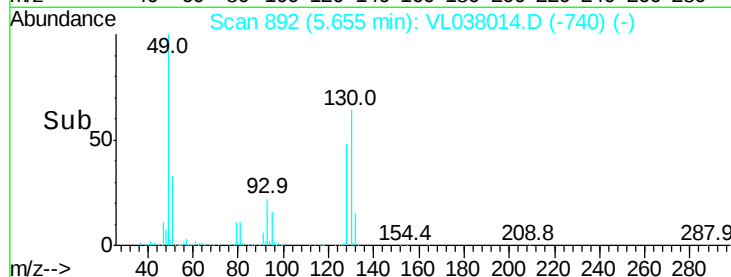
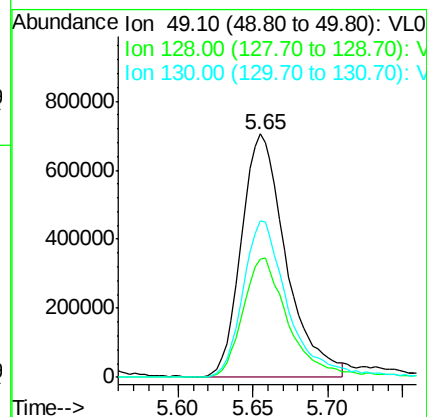
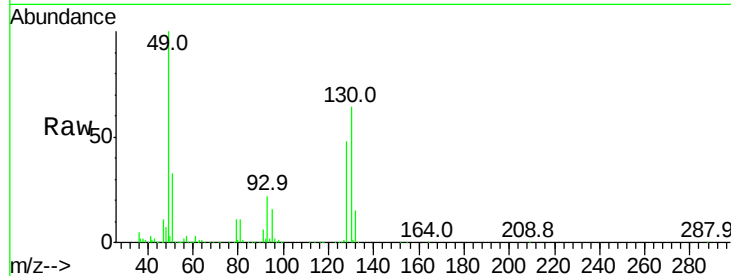
130 65.

Manual Integrations

APPROVED

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#3

Chlorodifluoromethane

Concen: 3.406 ppbv m

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL038014.D

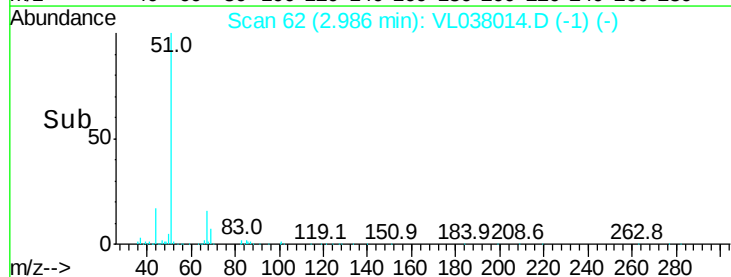
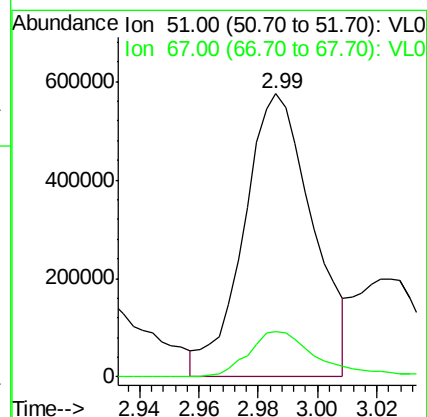
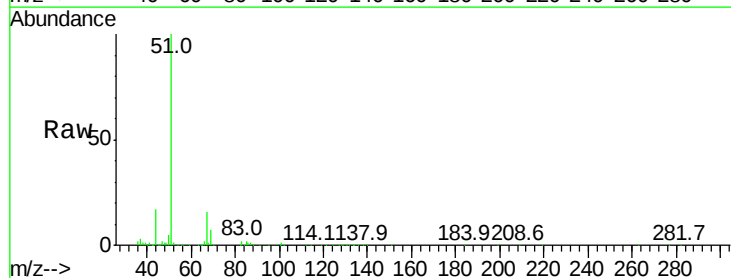
Acq: 10 Nov 2021 18:06

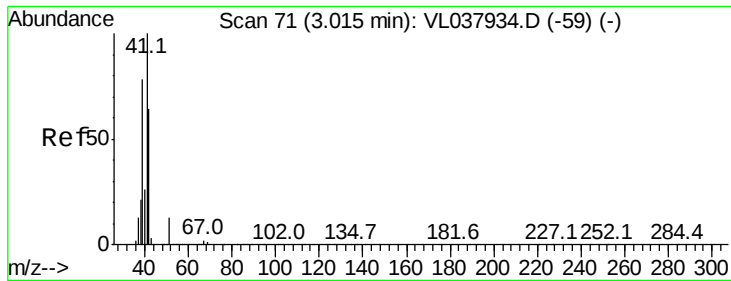
Tgt Ion: 51 Resp: 927636

Ion Ratio Lower Upper

51 100

67 17.6 13.4 20.0





#9

Propene

Concen: 0.865 ppbv

RT: 3.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 18:00

Tot Ion:

Ion Ratio

41 100

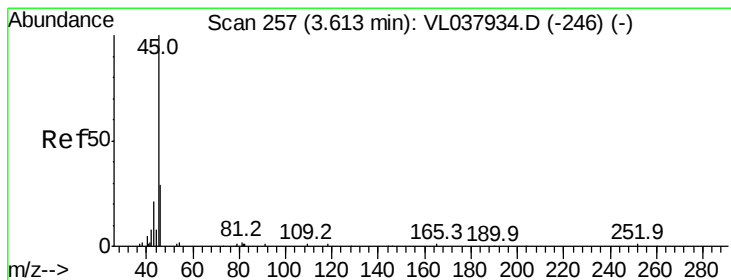
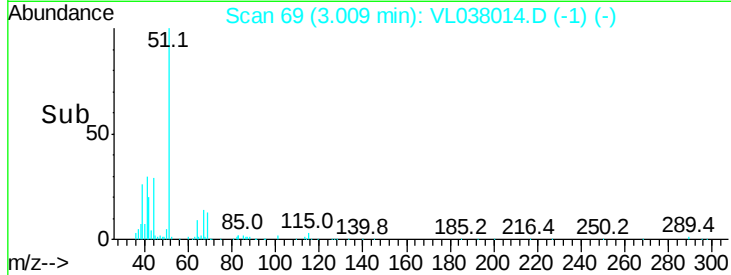
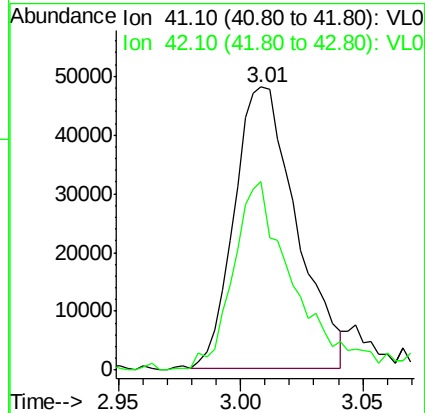
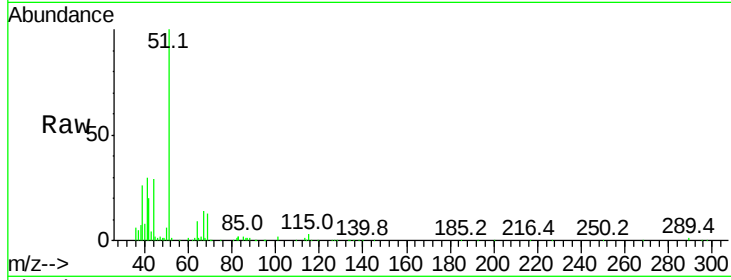
42 69.

Manual Integrations

APPROVED

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#13

Ethanol

Concen: 7.788 ppbv m

RT: 3.61 min Scan# 255

Delta R.T. -0.01 min

Lab File: VL038014.D

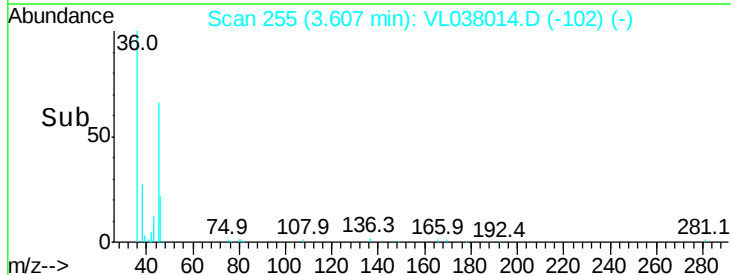
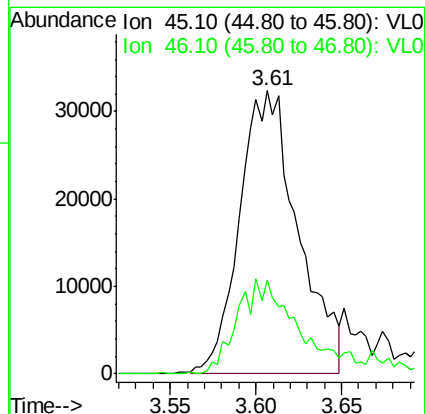
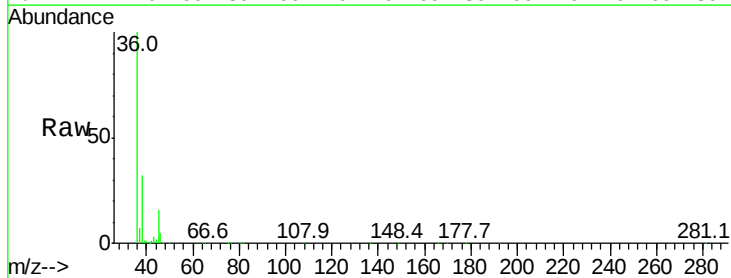
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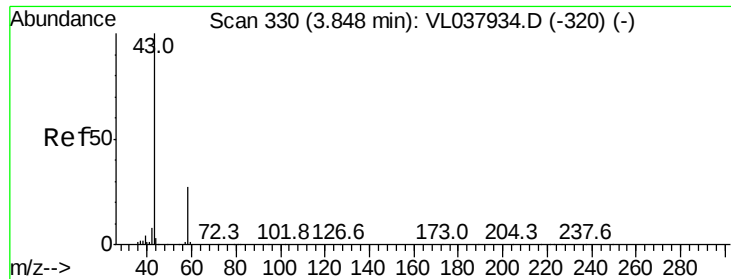
Tgt Ion: 45 Resp: 76713

Ion Ratio Lower Upper

45 100

46 0.0 17.4 69.8#





#15

Acetone

Concen: 8.674 ppbv

RT: 3.84

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 18:00

Tot Ion:

Ion Ratio

43 100

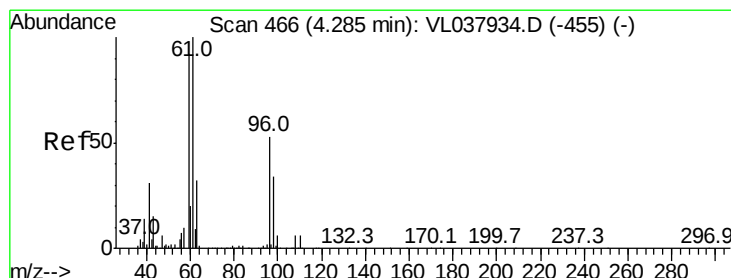
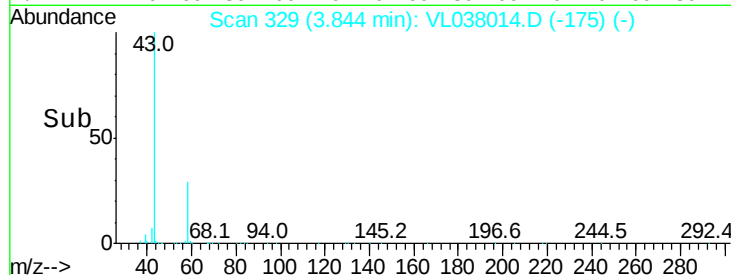
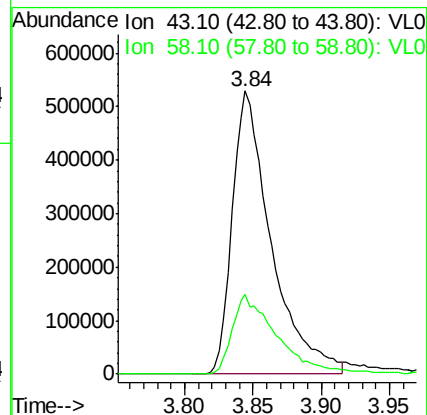
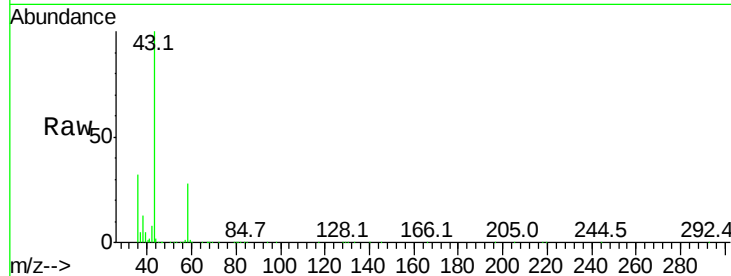
58 32.

Manual Integrations

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#17

tert-Butyl alcohol

Concen: 0.125 ppbv m

RT: 4.31 min Scan# 474

Delta R.T. 0.03 min

Lab File: VL038014.D

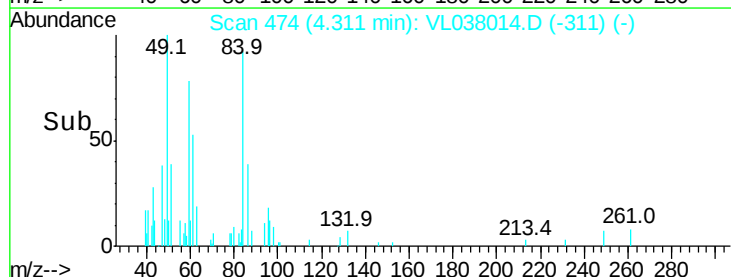
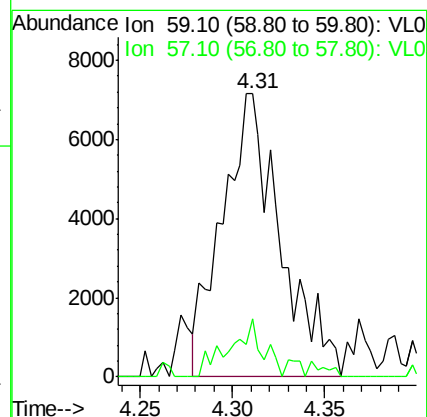
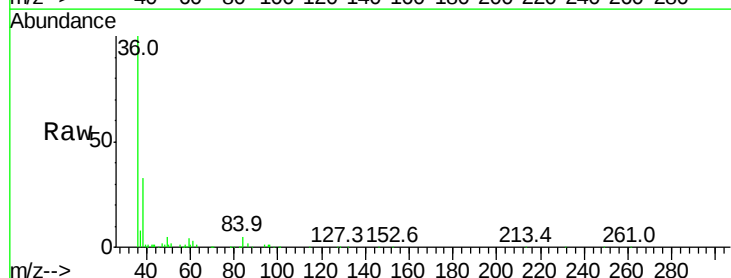
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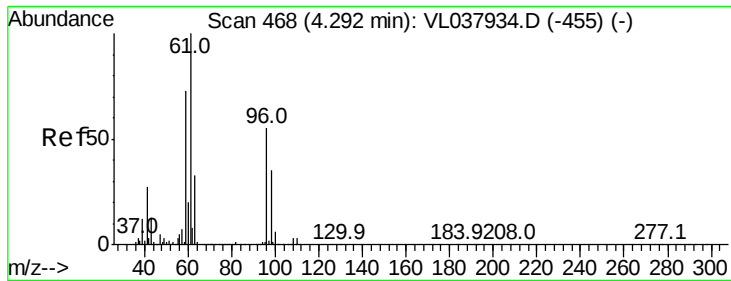
Tgt Ion: 59 Resp: 15699

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#





#18

1,1-Dichloroethene

Concen: 0.322 ppbv m

RT: 4.28

Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 10 Nov 2021 18:00

Tot Ion:

Ion Ratio

96 100

61 165.

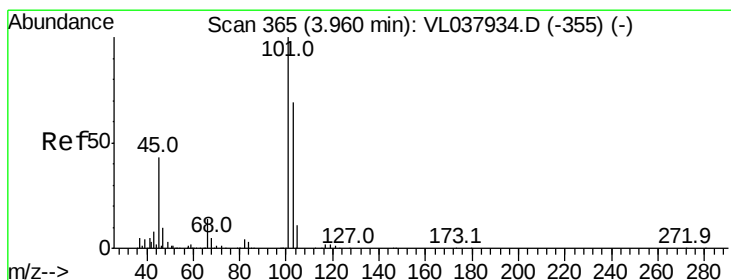
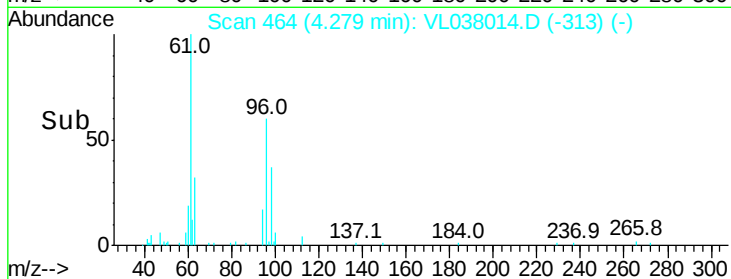
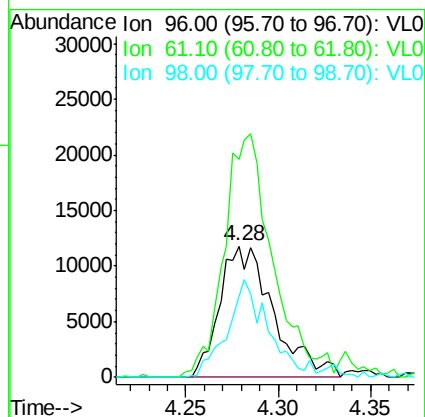
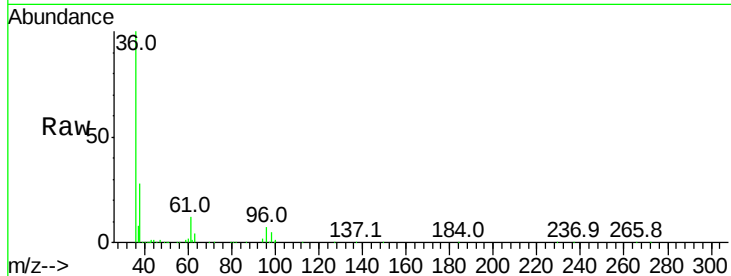
98 61.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021



#19

Isopropyl Alcohol

Concen: 0.499 ppbv m

RT: 3.98 min Scan# 371

Delta R.T. 0.02 min

Lab File: VL038014.D

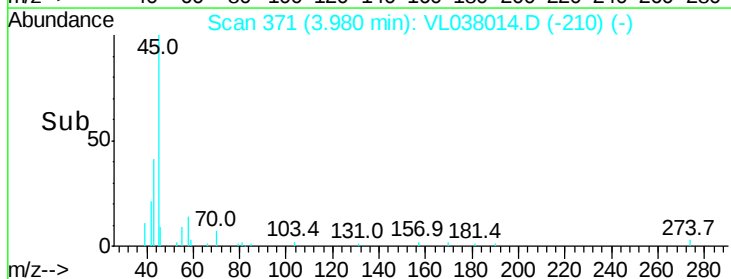
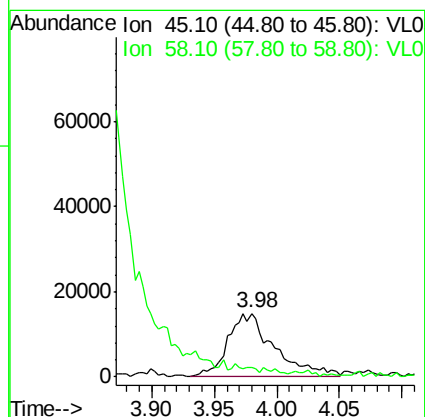
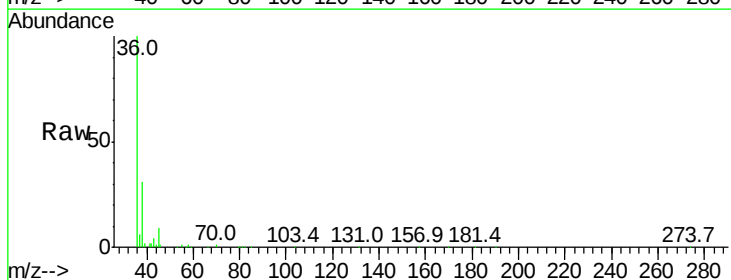
Acq: 10 Nov 2021 18:06

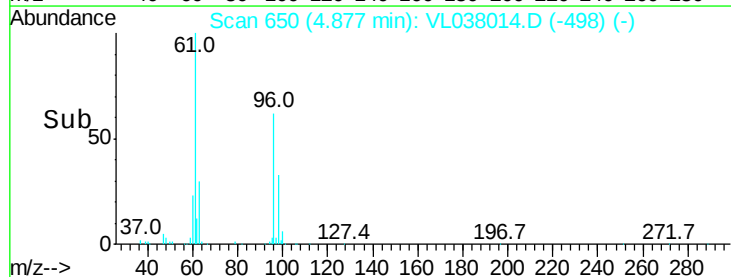
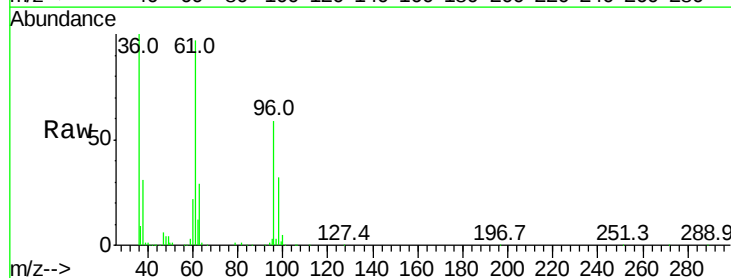
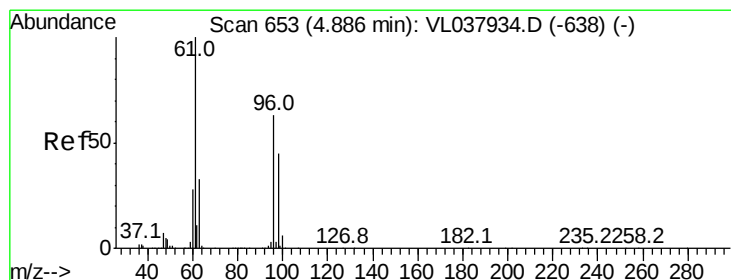
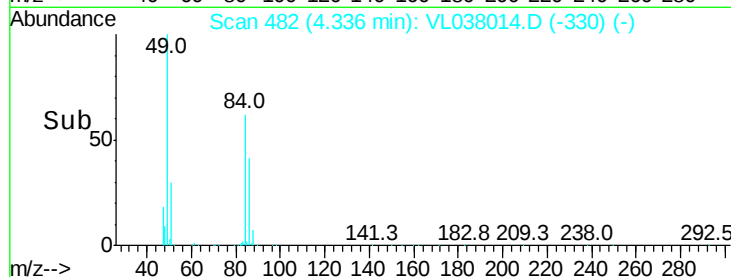
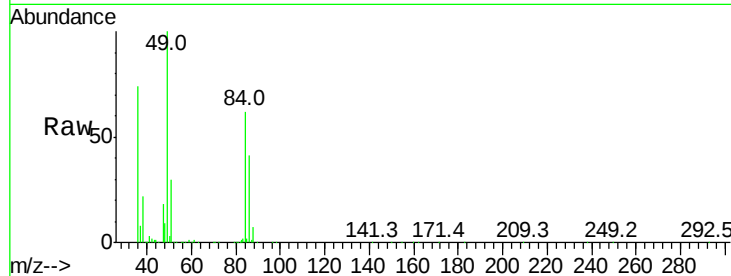
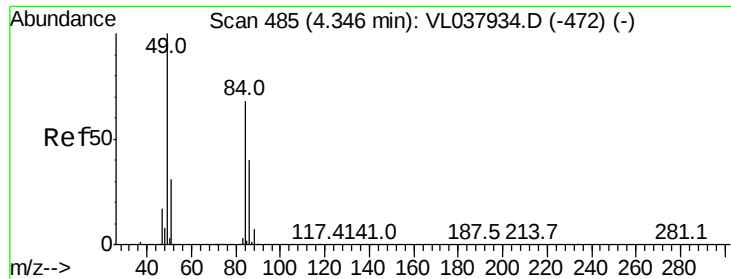
Tgt Ion: 45 Resp: 38601

Ion Ratio Lower Upper

45 100

58 0.0 4.0 6.0#





#20

Methvlene Chloride

Concen: 3.427 ppbv

RT: 4.34

Instrument: MSVOA_1

Delta R.T.:

Lab File: ClientSampleId :

Acq: 10 Nov 2021 18:00

Tot Ion:

Ion Ratio

84 100

49 161.

51 48.

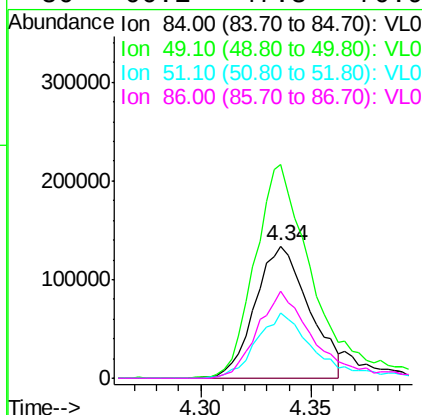
86 66.1 47.3 70.9

Manual Integrations

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Supervised By :Mahesh Dadoda 11/17/2021



#22

trans-1,2-Dichloroethene

Concen: 1.994 ppbv

RT: 4.88 min Scan# 650

Delta R.T. -0.01 min

Lab File: VL038014.D

Acq: 10 Nov 2021 18:06

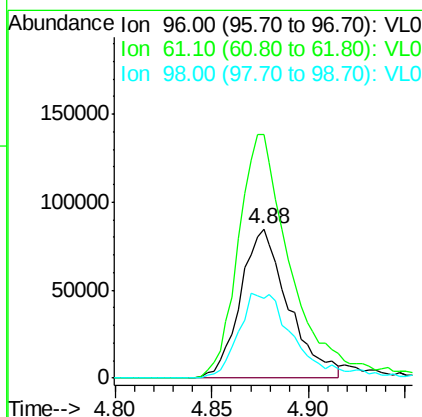
Tgt Ion: 96 Resp: 145865

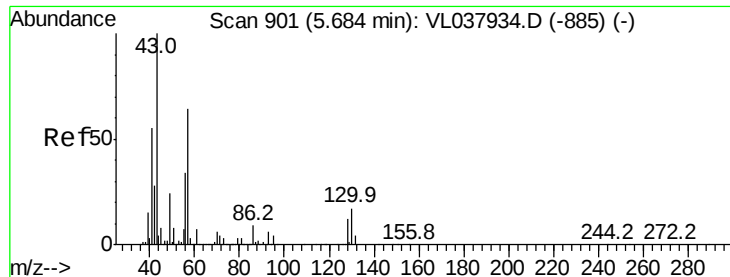
Ion Ratio Lower Upper

96 100

61 162.5 127.8 191.6

98 53.4 56.9 85.3#



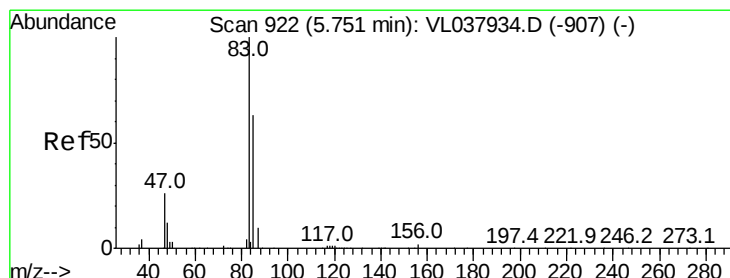
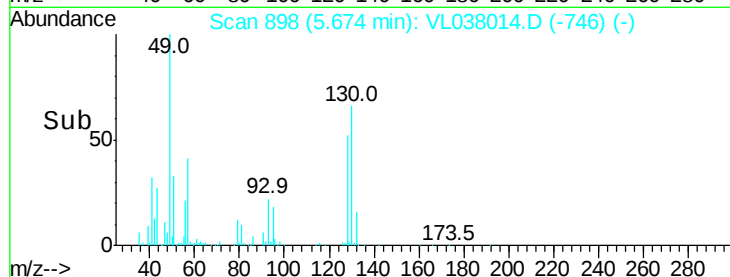
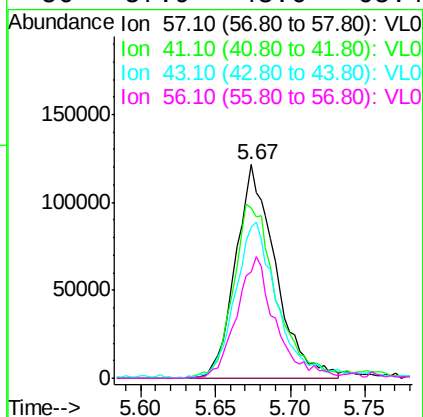
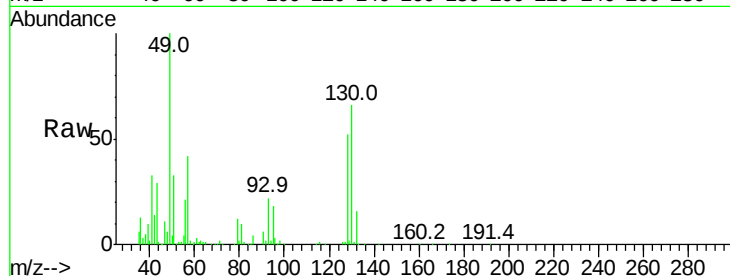


#26
Hexane
Concen: 1.329 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 10 Nov 2021 18:00

Tot Ion: 57.10 (56.80 to 57.80): VL0
Ion Ratio: 41.10 (40.80 to 41.80): VL0
43.10 (42.80 to 43.80): VL0
43 79.
56 57.9 43.6 65.4

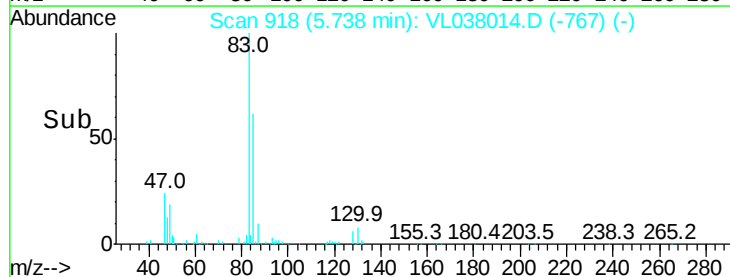
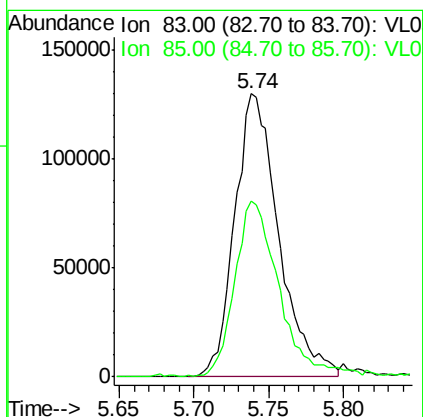
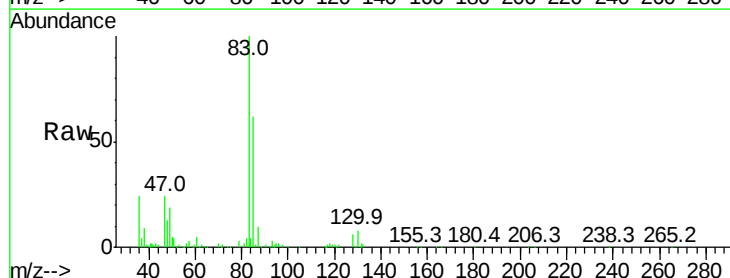
Manual Integrations
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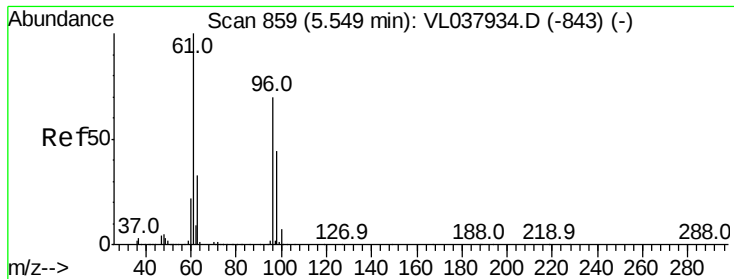
Reviewed By :Semsettin Yesilyurt 11/11/2021
Supervised By :Mahesh Dadoda 11/17/2021



#29
Chloroform
Concen: 1.052 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL038014.D
Acq: 10 Nov 2021 18:06

Tgt Ion: 83 Resp: 266832
Ion Ratio Lower Upper
83 100
85 61.5 50.6 76.0





#31

cis-1,2-Dichloroethene

Concen: 30.675 ppbv

RT: 5.54 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 10 Nov 2021 18:00 356-4DL

Tot Ion:

Ion Ratio

61 100

96 70.

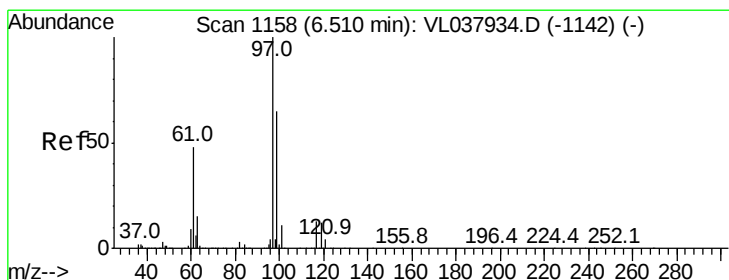
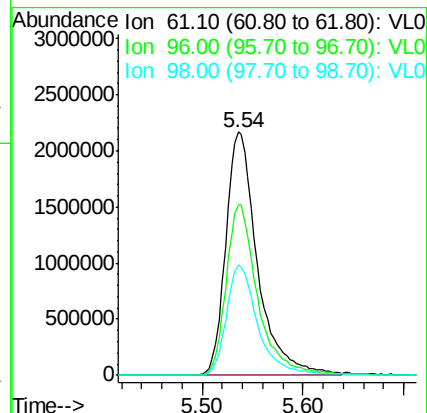
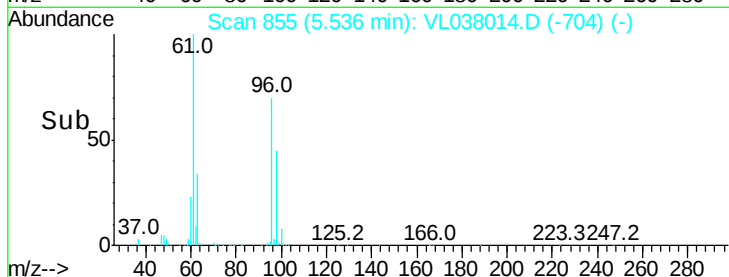
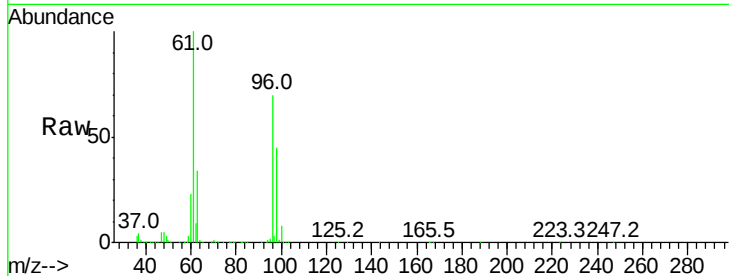
98 45.

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 11/17/2021



#32

1,1,1-Trichloroethane

Concen: 0.287 ppbv m

RT: 6.50 min Scan# 1156

Delta R.T. -0.01 min

Lab File: VL038014.D

Acq: 10 Nov 2021 18:06

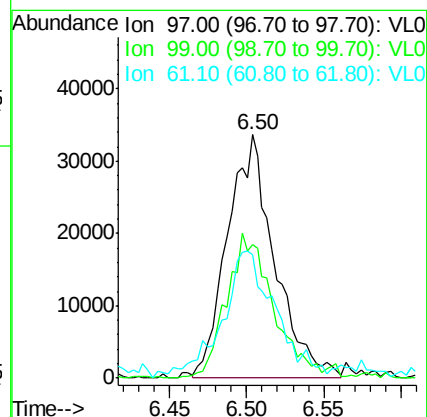
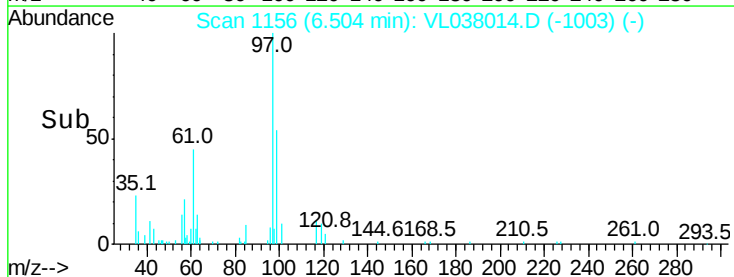
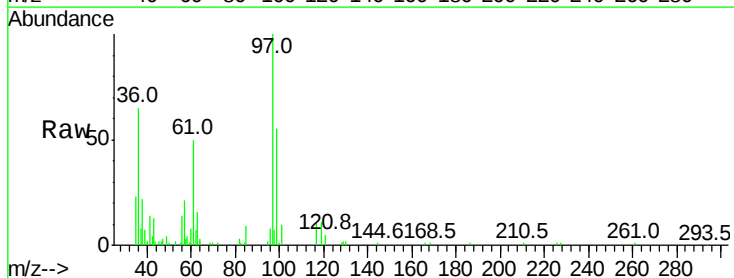
Tgt Ion: 97 Resp: 71631

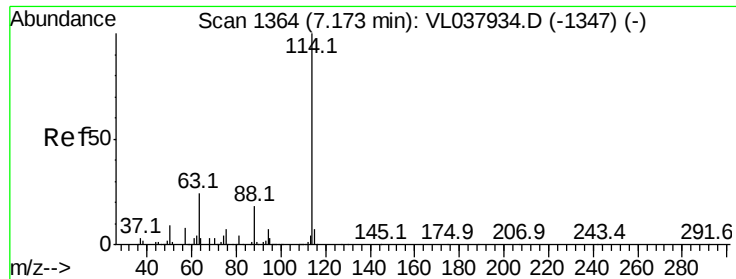
Ion Ratio Lower Upper

97 100

99 60.9 52.2 78.4

61 55.2 39.8 59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 18:00

Tot Ion:1

Ion Rati

114 100

63 23.

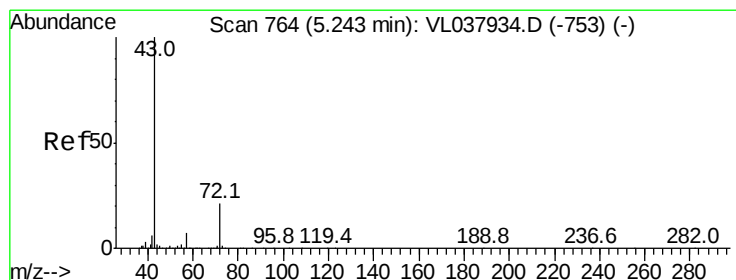
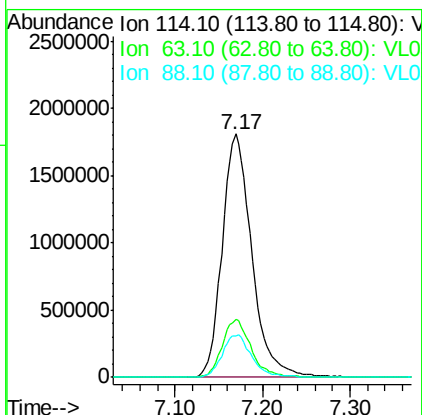
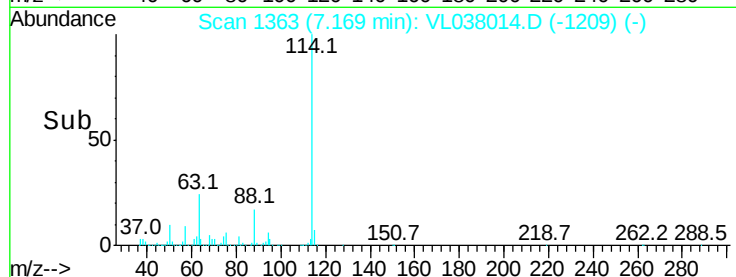
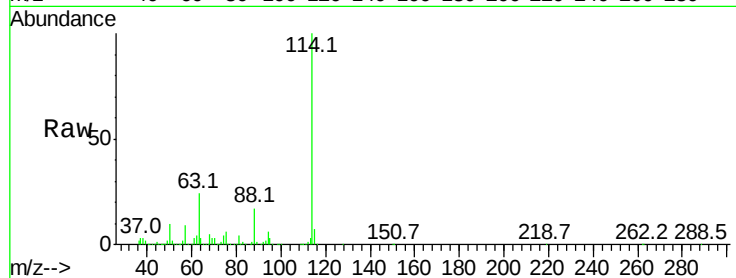
88 17.

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Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021



#34

2-Butanone

Concen: 3.503 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.01 min

Lab File: VL038014.D

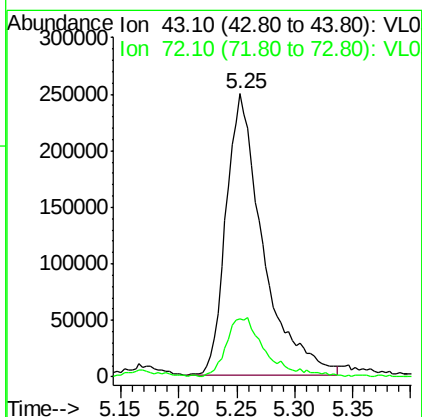
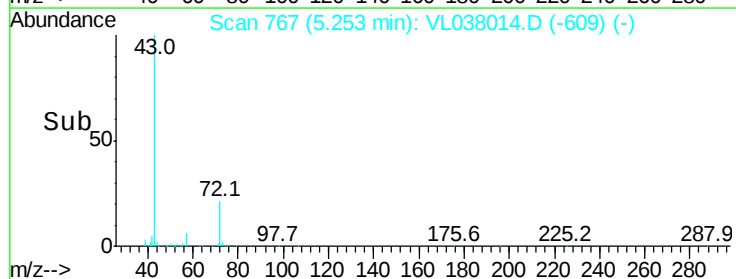
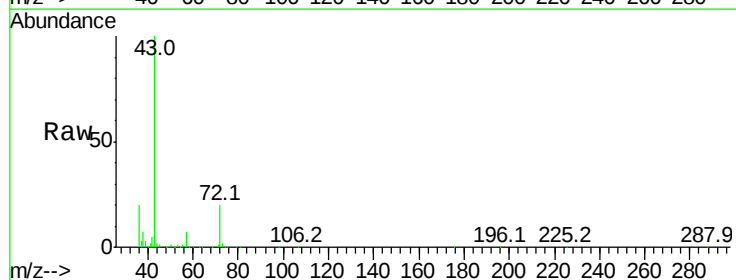
Acq: 10 Nov 2021 18:06

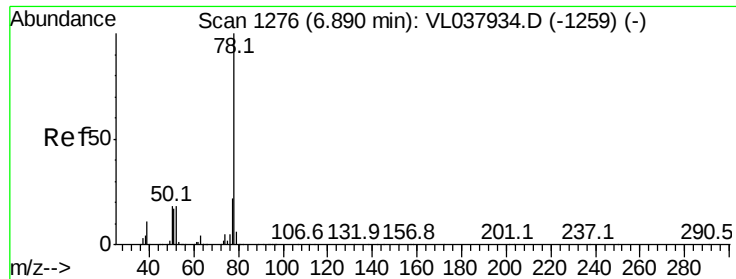
Tgt Ion: 43 Resp: 551569

Ion Ratio Lower Upper

43 100

72 22.6 18.3 27.5



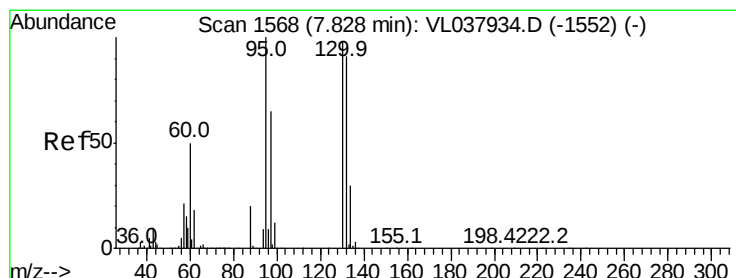
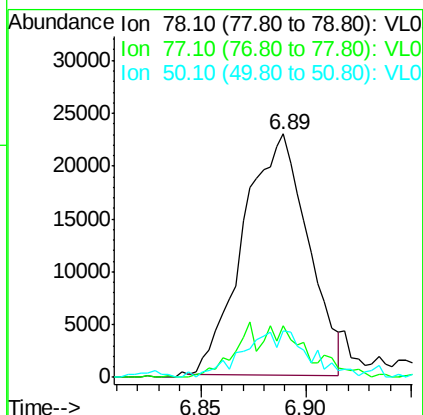
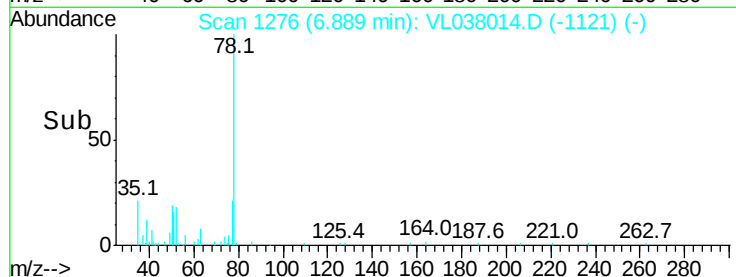
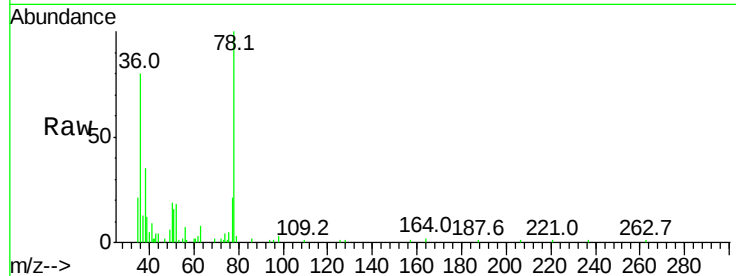


#36
Benzene
Concen: 0.141 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 10 Nov 2021 18:00

Tot Ion:
Ion Ratio
78 100
77 21.
50 17.

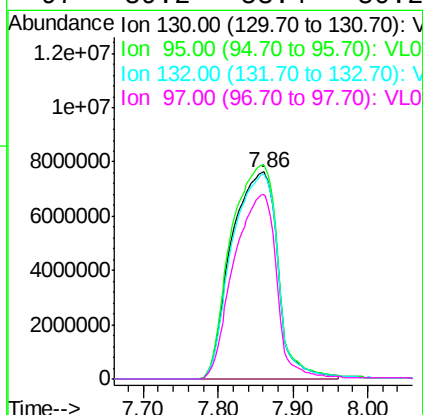
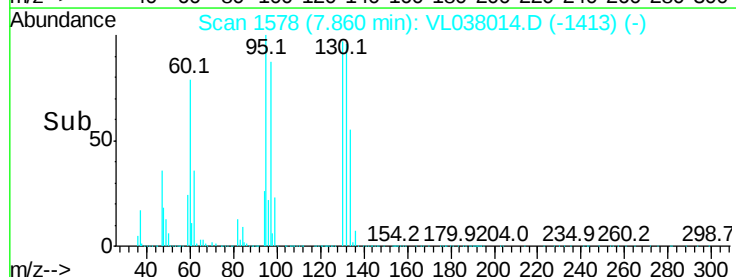
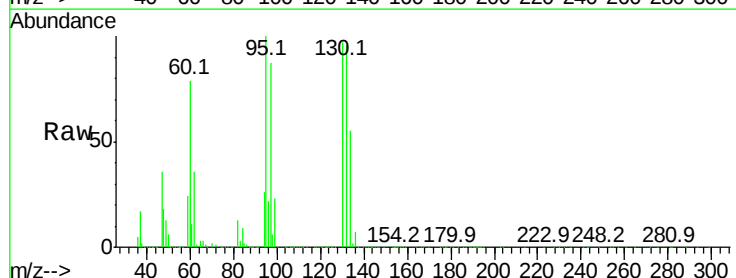
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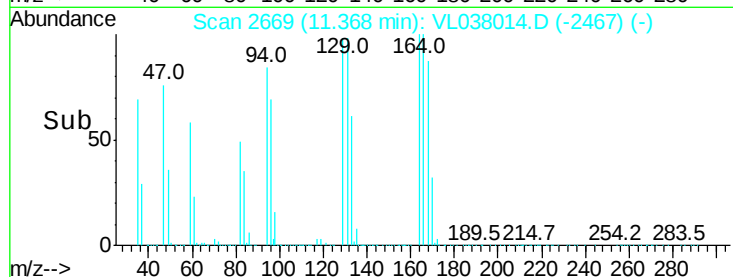
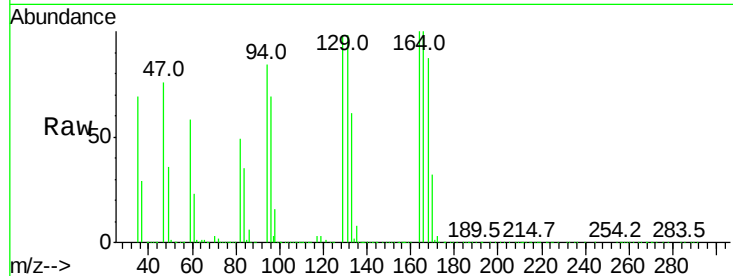
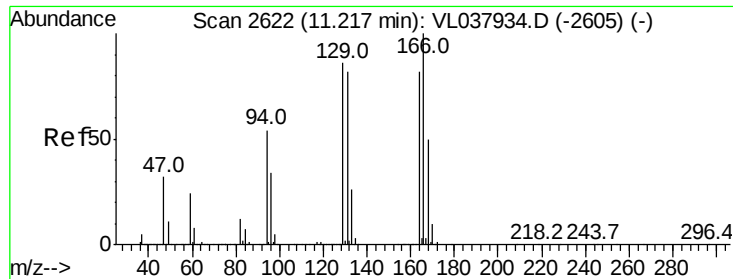
Reviewed By :Semsettin Yesilyurt 11/11/2021
Supervised By :Mahesh Dadoda 11/17/2021



#38
Trichloroethene
Concen: 228.446 ppbv
RT: 7.86 min Scan# 1578
Delta R.T. 0.03 min
Lab File: VL038014.D
Acq: 10 Nov 2021 18:06

Tgt Ion:130 Resp:32811692
Ion Ratio Lower Upper
130 100
95 103.1 81.8 122.8
132 99.2 74.2 111.2
97 89.2 53.4 80.2#



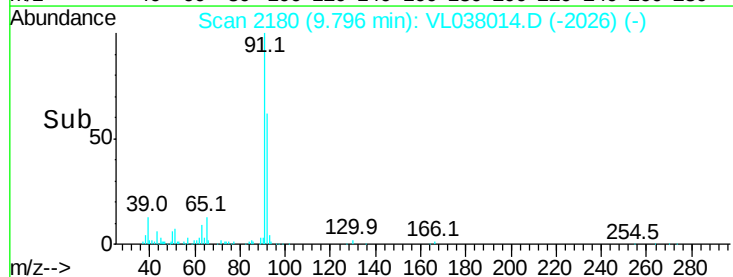
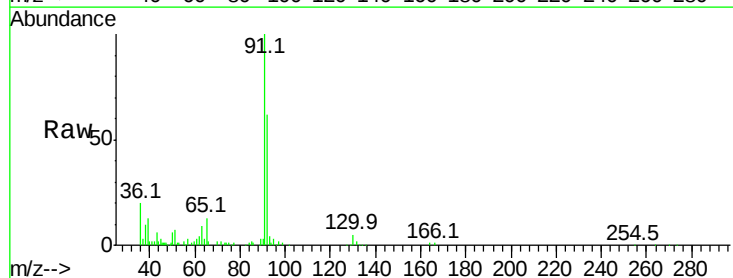
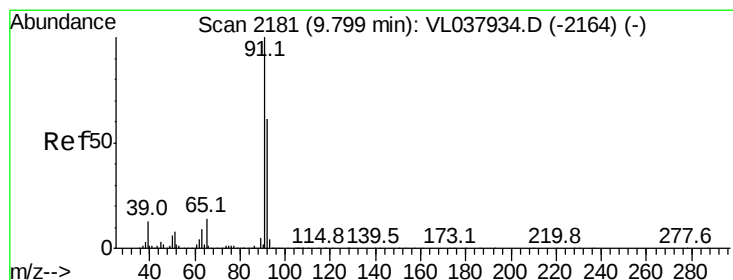
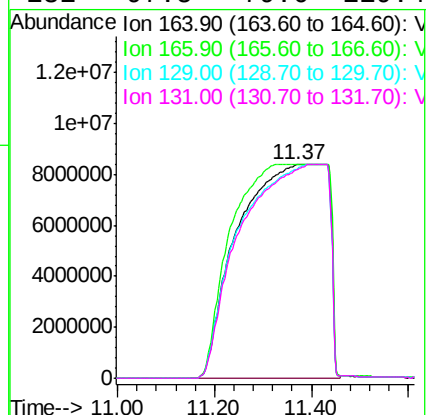


#52
Tetrachloroethene
Concen: 808.116 ppbv m
RT: 11.37
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 10 Nov 2021 18:00

Tot Ion: 1
Ion Ratio
164 100
166 100.
129 97.
131 97.5 79.6 119.4

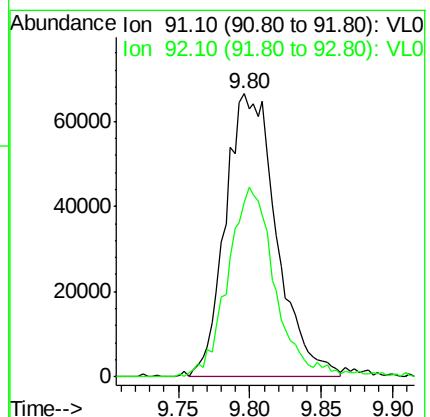
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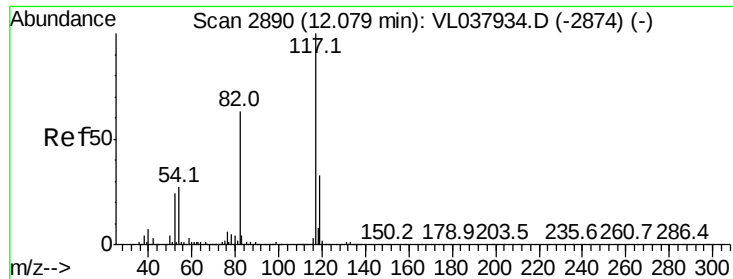
Reviewed By : Semsettin Yesilyurt 11/11/2021
Supervised By : Mahesh Dadoda 11/17/2021



#53
Toluene
Concen: 0.444 ppbv m
RT: 9.80 min Scan# 2180
Delta R.T.: -0.00 min
Lab File: VL038014.D
Acq: 10 Nov 2021 18:06

Tgt Ion: 91 Resp: 164732
Ion Ratio Lower Upper
91 100
92 62.5 48.2 72.4



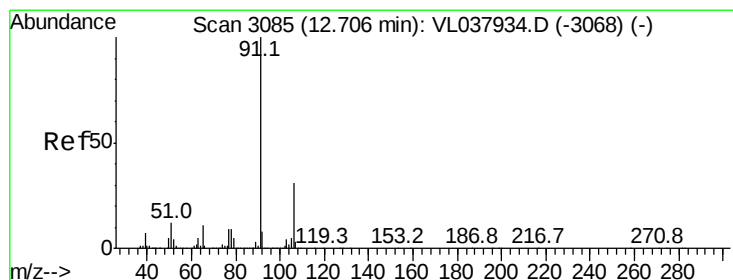
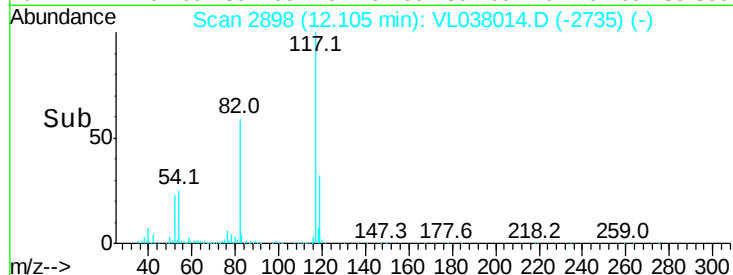
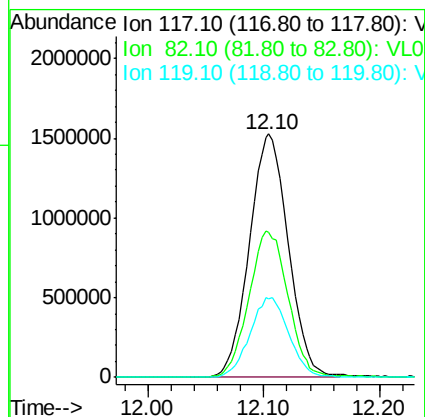
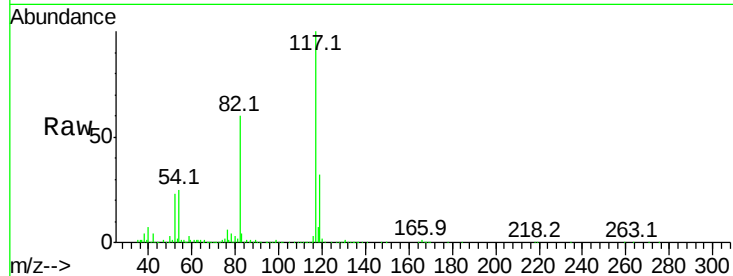


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.: 0.02 min
Lab File: ClientSampleId : 356-4DL
Acq: 10 Nov 2021 18:00

Tot Ion: 1
Ion Ratio
117 100
82 61.
119 33.

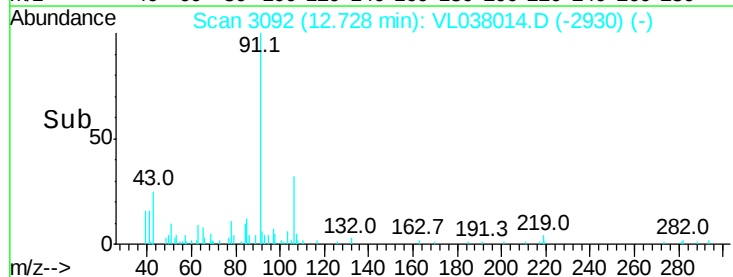
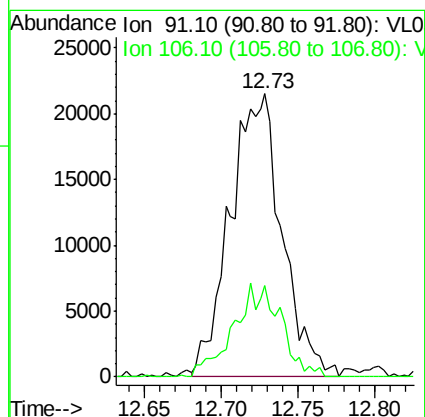
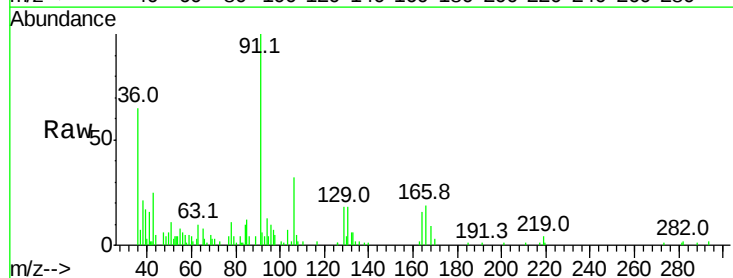
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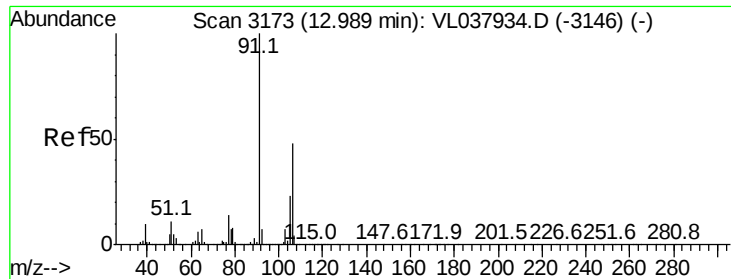
Reviewed By : Semsettin Yesilyurt 11/11/2021
Supervised By : Mahesh Dadoda 11/17/2021



#58
Ethyl Benzene
Concen: 0.116 ppbv m
RT: 12.73 min Scan# 3092
Delta R.T.: 0.02 min
Lab File: VL038014.D
Acq: 10 Nov 2021 18:06

Tgt Ion: 91 Resp: 50517
Ion Ratio Lower Upper
91 100
106 32.1 25.1 37.7



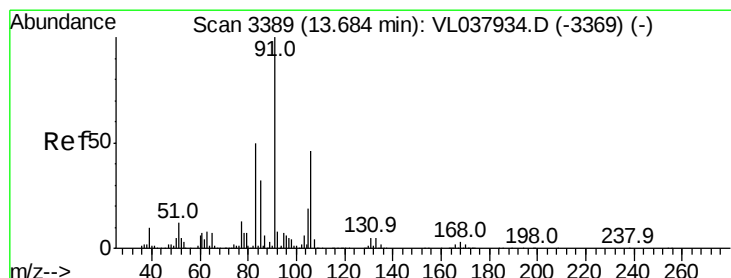
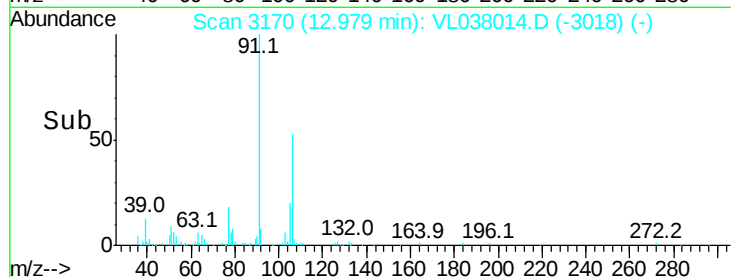
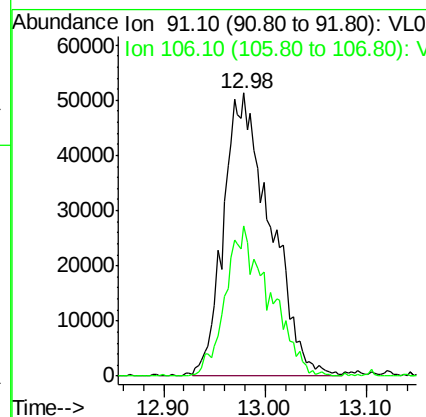
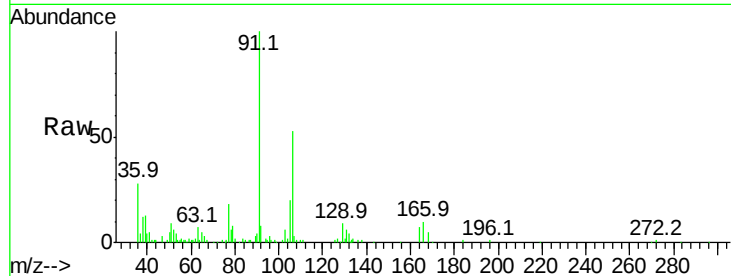


#59
m/p-Xylene
Concen: 0.425 ppbv m
RT: 12.98 min
Instrument: MSVOA_1
Delta R.T.: 0.01 min
Lab File: VL038014.D
Client Sample ID: 356-4DL
Acq: 10 Nov 2021 18:06

Tot Ion:
Ion Ratio
91 100
106 0.

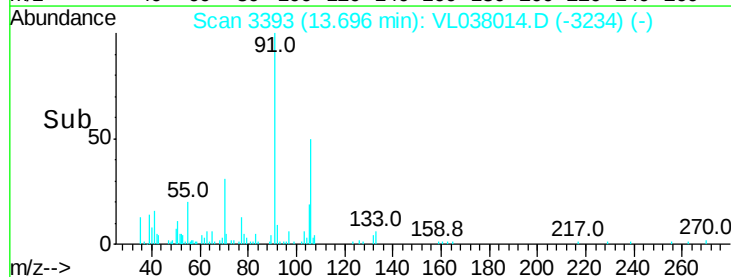
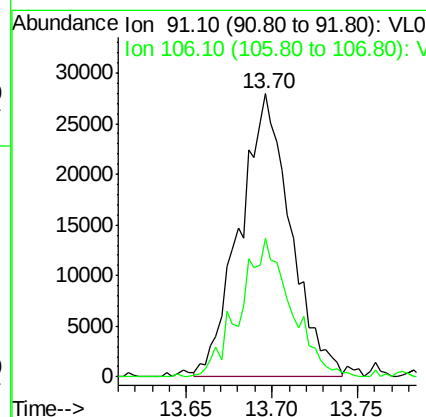
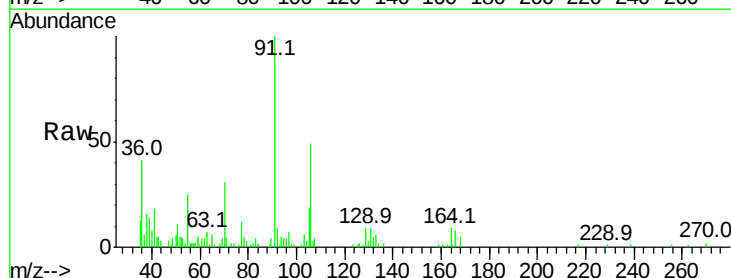
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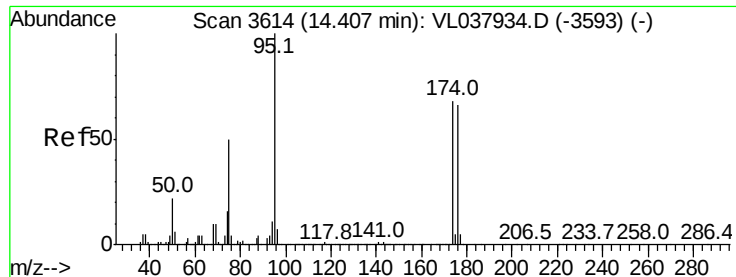
Reviewed By : Semsettin Yesilyurt 11/11/2021
Supervised By : Mahesh Dadoda 11/17/2021



#60
o-Xylene
Concen: 0.159 ppbv m
RT: 13.70 min Scan# 3393
Delta R.T.: 0.01 min
Lab File: VL038014.D
Acq: 10 Nov 2021 18:06

Tgt Ion: 91 Resp: 57936
Ion Ratio Lower Upper
91 100
106 48.9 23.5 70.6



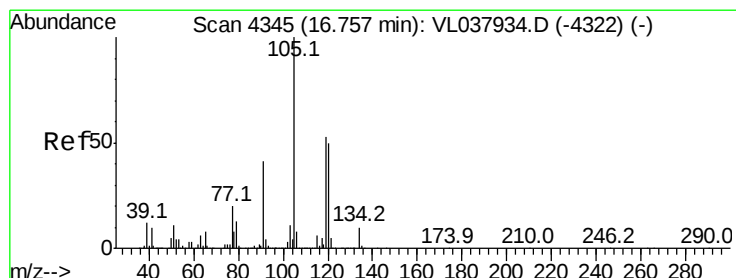
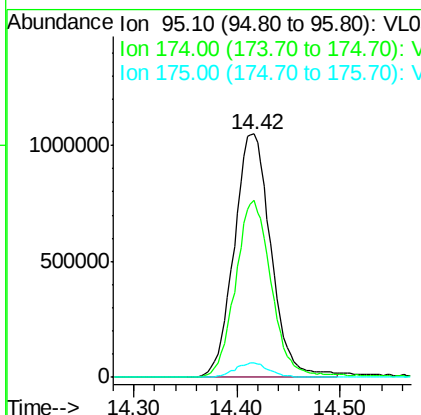
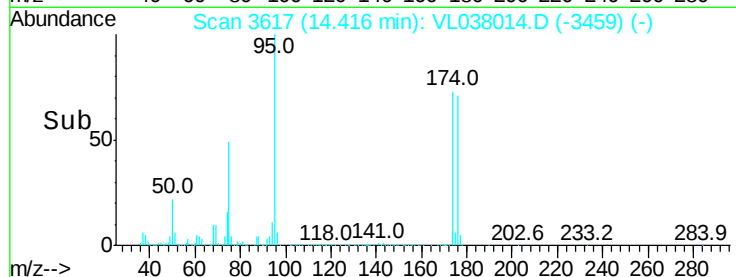
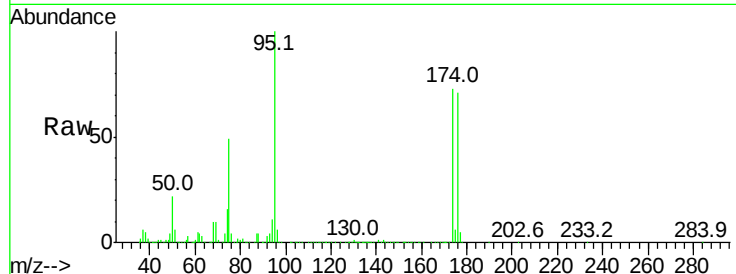


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.071 ppbv
 RT: 14.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 356-4DL
 Acq: 10 Nov 2021 18:00

Tot Ion:
 Ion Ratio
 95 100
 174 71.
 175 5.

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/11/2021
 Supervised By :Mahesh Dadoda 11/17/2021



#74
 1,2,4-Trimethylbenzene
 Concen: 0.104 ppbv m
 RT: 16.75 min Scan# 4343
 Delta R.T. -0.01 min
 Lab File: VL038014.D
 Acq: 10 Nov 2021 18:06

Tgt Ion:105 Resp: 42436
 Ion Ratio Lower Upper
 105 100
 120 53.7 40.0 60.0
 91 10.7 32.6 49.0#
 77 17.9 15.8 23.8

