

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092821\
 Data File : VL037702.D
 Acq On : 28 Sep 2021 15:00
 Operator : SY/AP
 Sample : M3896-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/29/2021
 Supervised By : Amit Patel 10/01/2021

Quant Time: Sep 29 20:39:55 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621A

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument:

QLast Update : Thu Sep 16 13:42:46 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1375277	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4141709	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3620445	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2638357	10.08	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds

					Qvalue
4) Chloromethane	3.15	50	17853m	0.186	ppbv
9) Propene	3.03	41	86626	0.947	ppbv 83
10) Heptane	8.13	43	77933	0.365	ppbv 99
11) Trichlorofluoromethane	3.96	101	38737	0.194	ppbv 90
12) 1,1,2-Trichlorotrifluoroet	4.49	101	21786m	0.148	ppbv
13) Ethanol	3.61	45	2005644	224.084	ppbv 91
15) Acetone	3.85	43	2608586	18.256	ppbv 99
17) tert-Butyl alcohol	4.31	59	35811m	0.296	ppbv
18) 1,1-Dichloroethene	4.30	96	60376m	0.879	ppbv
19) Isopropyl Alcohol	3.98	45	535282	6.885	ppbv # 96
20) Methylene Chloride	4.35	84	3057281	44.817	ppbv 98
24) 1,1-Dichloroethane	5.02	63	318797	2.251	ppbv 99
26) Hexane	5.70	57	4330319	26.341	ppbv # 46
30) Cyclohexane	7.14	84	31021m	0.221	ppbv
32) 1,1,1-Trichloroethane	6.52	97	218153	0.976	ppbv 99
34) 2-Butanone	5.25	43	462883	2.750	ppbv 95
35) Carbon Tetrachloride	7.02	117	7202m	0.031	ppbv
36) Benzene	6.90	78	63669m	0.184	ppbv
41) Tetrahydrofuran	6.07	42	147662m	1.866	ppbv
50) 4-Methyl-2-Pentanone	8.76	43	27795m	0.130	ppbv
51) 2-Hexanone	10.15	43	194343m	2.062	ppbv
52) Tetrachloroethene	11.23	164	9299m	0.070	ppbv
53) Toluene	9.82	91	443876	1.156	ppbv 99
58) Ethyl Benzene	12.71	91	244816m	0.509	ppbv
59) m/p-Xylene	12.97	91	561246m	1.340	ppbv
60) o-Xylene	13.70	91	264975	0.665	ppbv 97
62) Isopropylbenzene	14.68	105	59367m	0.107	ppbv
73) 1,3,5-Trimethylbenzene	16.00	105	60351m	0.141	ppbv
74) 1,2,4-Trimethylbenzene	16.78	105	152507	0.339	ppbv # 65
79) Naphthalene	22.20	128	105114m	0.381	ppbv
80) Naphthalene,2-methyl-	24.98	142	28998	0.460	ppbv 85

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

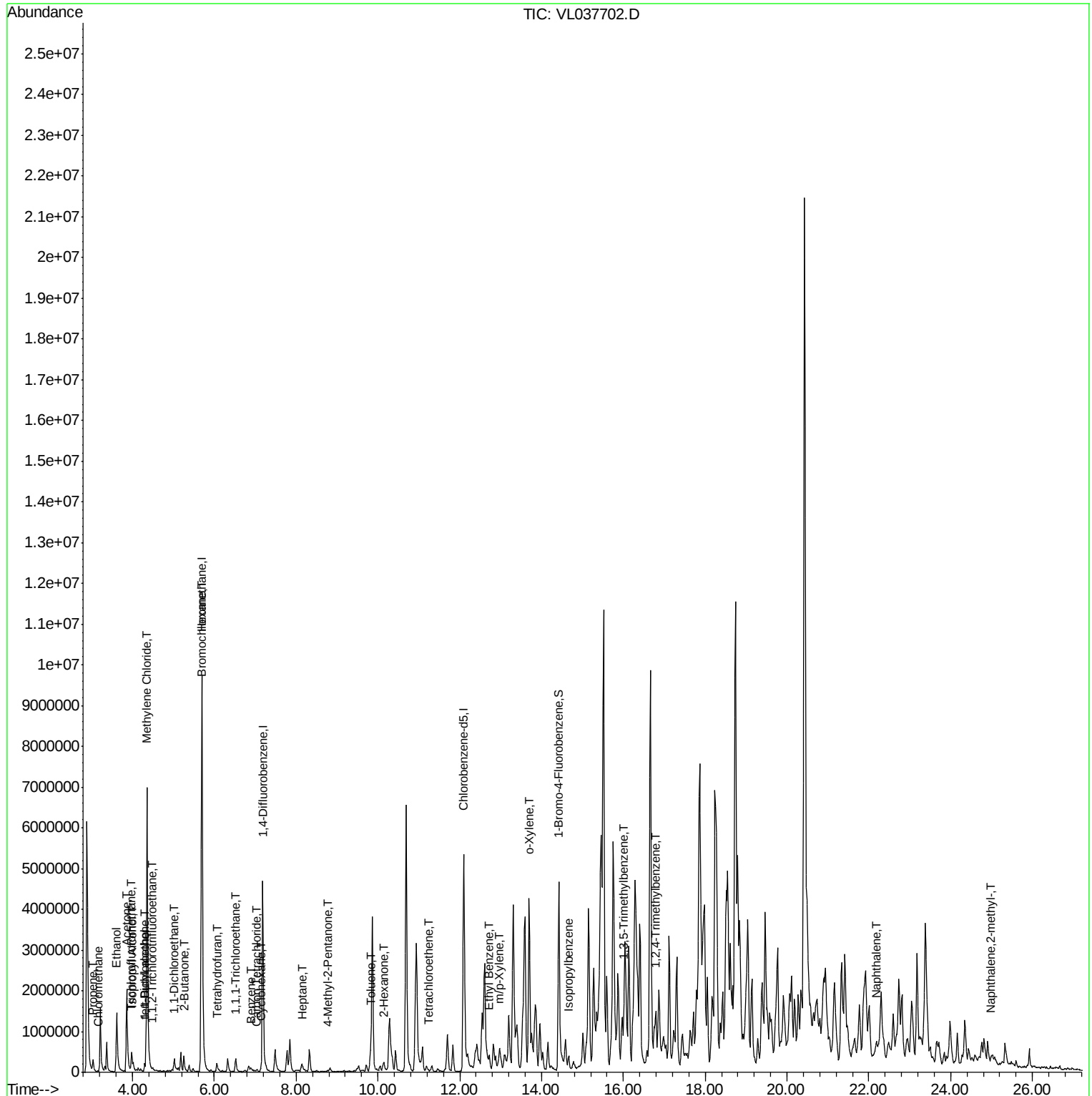
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092821\
Data File : VL037702.D
Acq On : 28 Sep 2021 15:00
Operator : SY/AP
Sample : M3896-03
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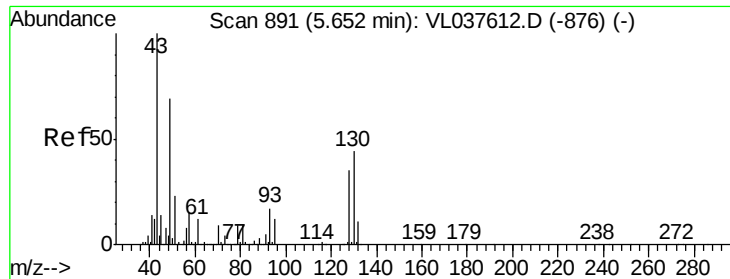
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Quant Time: Sep 29 20:39:55 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091621.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration

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Reviewed By :Semsettin Yesilyurt 09/29/2021
Supervised By :Amit Patel 10/01/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: EFFLUENT

Acq: 28 Sep 2021 15:00

Tgt Ion:

Ion Ratio

49 100

128 52.

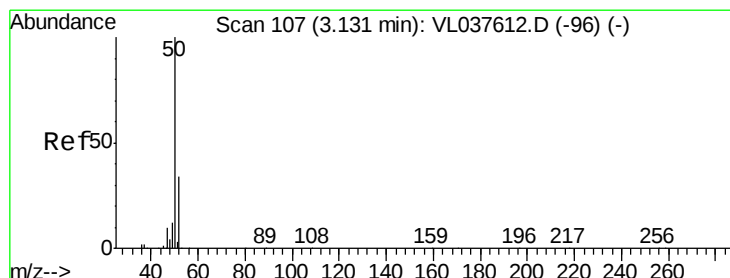
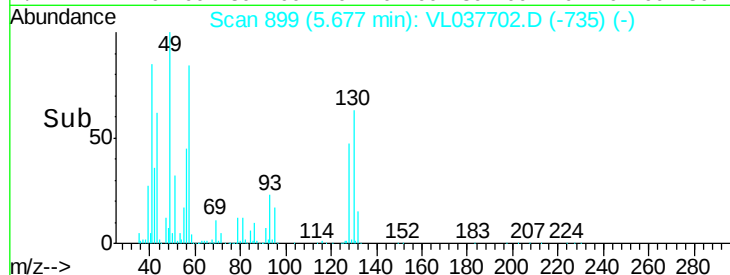
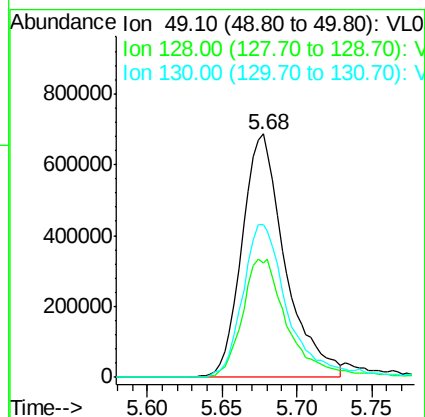
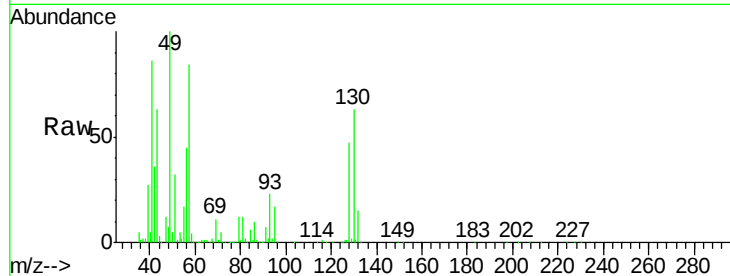
130 66.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/29/2021

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#4

Chloromethane

Concen: 0.186 ppbv m

RT: 3.15 min Scan# 113

Delta R.T. 0.02 min

Lab File: VL037702.D

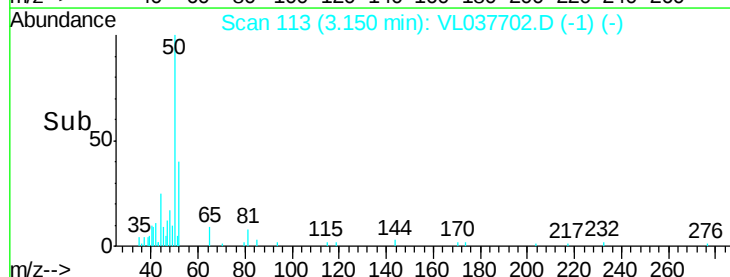
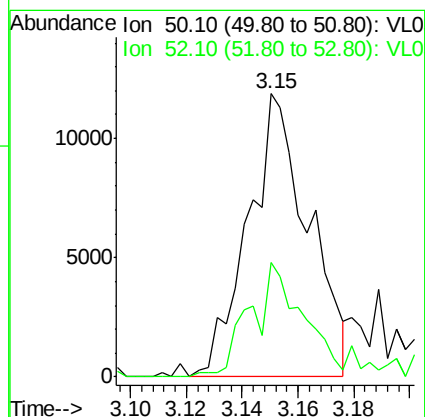
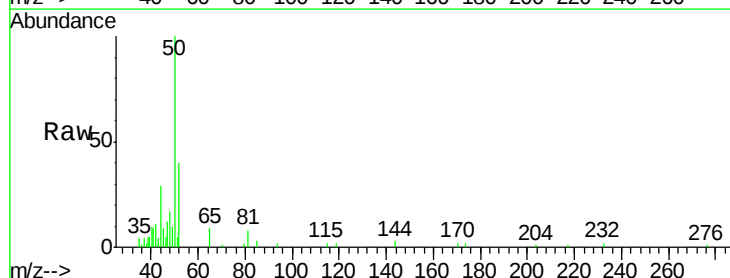
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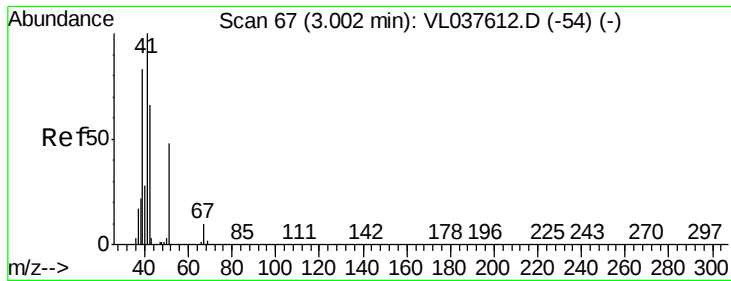
Tgt Ion: 50 Resp: 17853

Ion Ratio Lower Upper

50 100

52 40.3 27.1 40.7



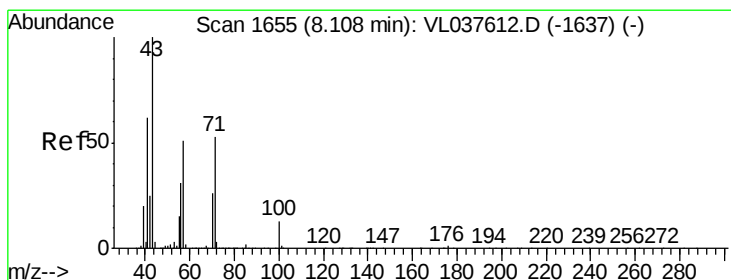
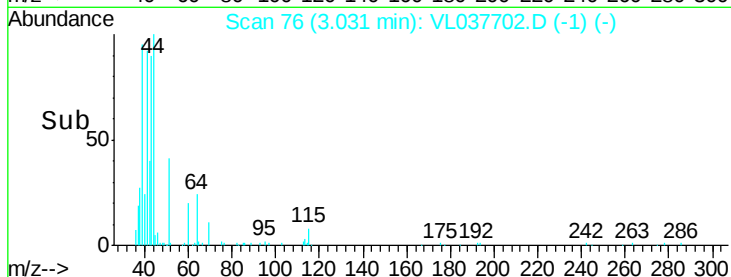
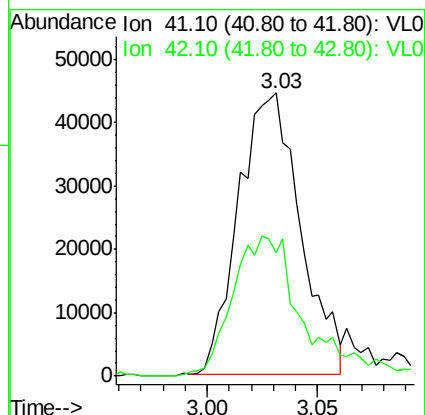
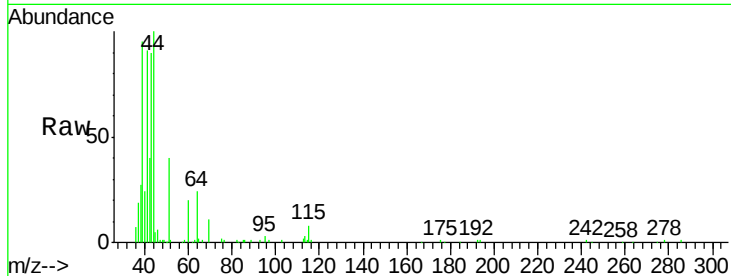


#9
 Propene
 Concen: 0.947 ppbv
 RT: 3.03
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Sep 2021 15:00

Tgt Ion:
 Ion Ratio
 41 100
 42 57.

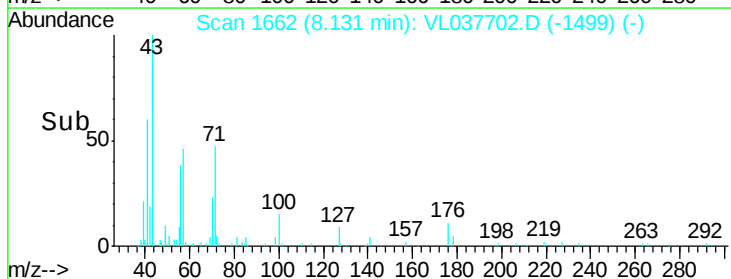
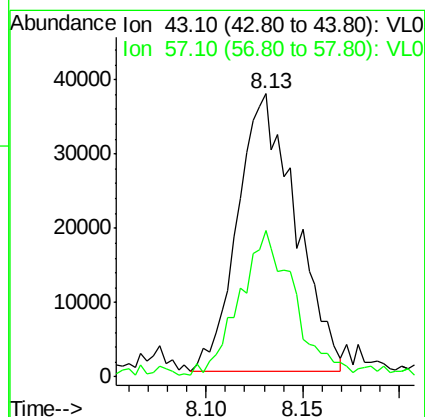
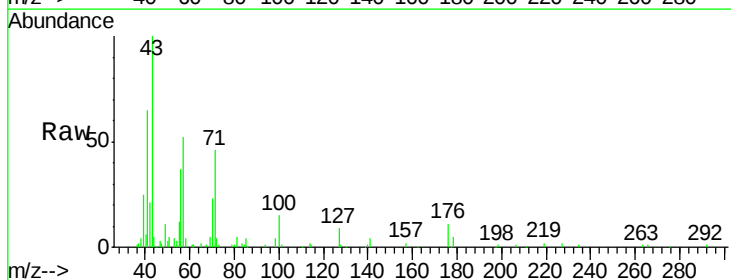
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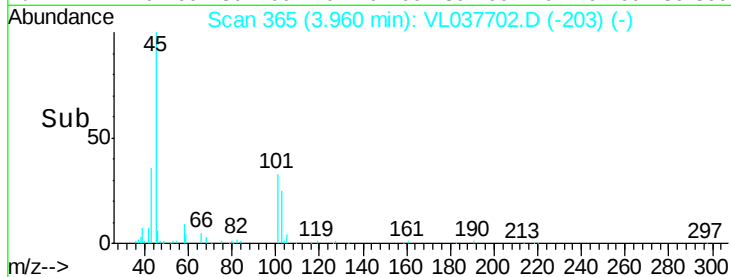
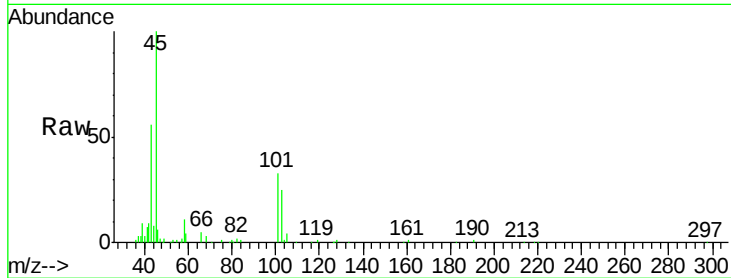
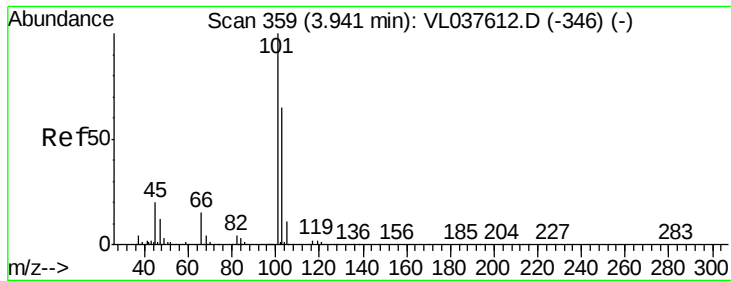
Reviewed By :Semsettin Yesilyurt 09/29/2021
 Supervised By :Amit Patel 10/01/2021



#10
 Heptane
 Concen: 0.365 ppbv
 RT: 8.13 min Scan# 1662
 Delta R.T. 0.02 min
 Lab File: VL037702.D
 Acq: 28 Sep 2021 15:00

Tgt Ion: 43 Resp: 77933
 Ion Ratio Lower Upper
 43 100
 57 50.9 40.1 60.1



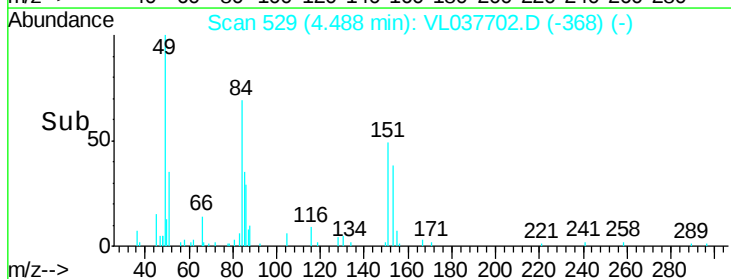
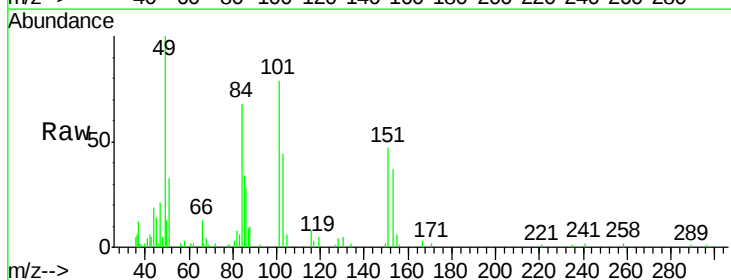
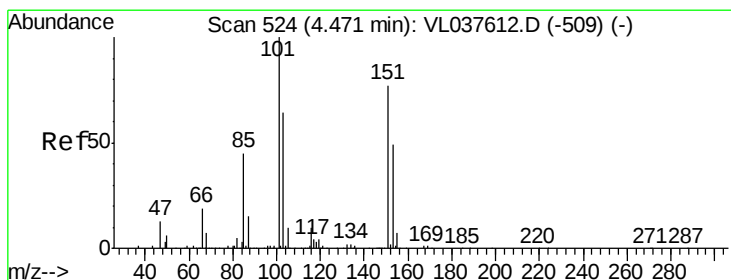
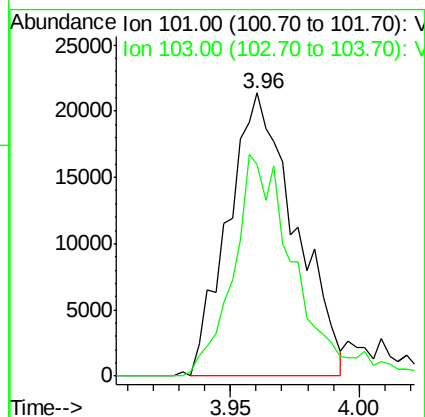


#11
 Trichlorofluoromethane
 Concen: 0.194 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 EFFLUENT
 Acq: 28 Sep 2021 15:00

Tgt Ion:1
 Ion Ratio
 101 100
 103 73.

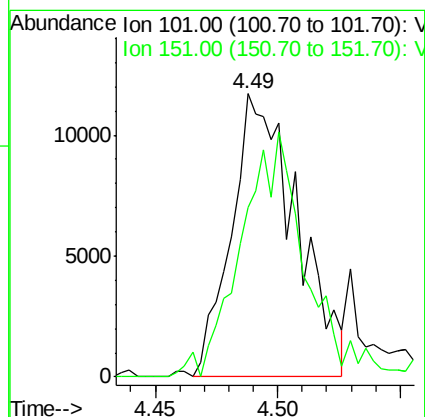
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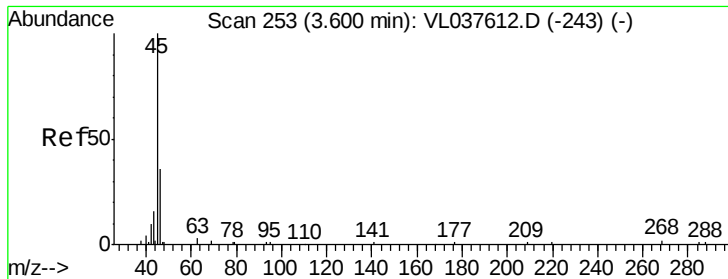
Reviewed By :Semsettin Yesilyurt 09/29/2021
 Supervised By :Amit Patel 10/01/2021



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.148 ppbv m
 RT: 4.49 min Scan# 529
 Delta R.T. 0.02 min
 Lab File: VL037702.D
 Acq: 28 Sep 2021 15:00

Tgt Ion:101 Resp: 21786
 Ion Ratio Lower Upper
 101 100
 151 0.0 63.5 95.3#



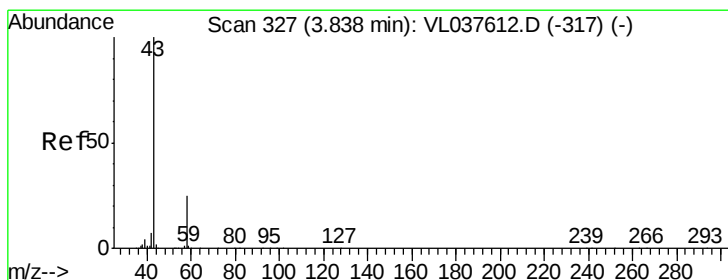
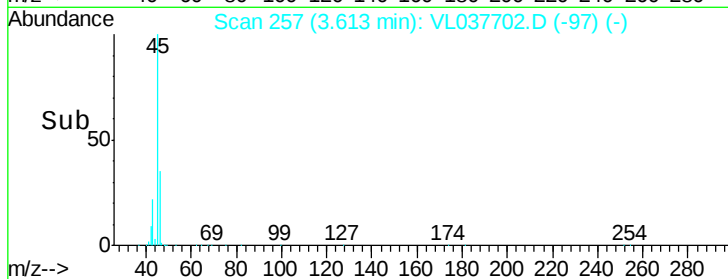
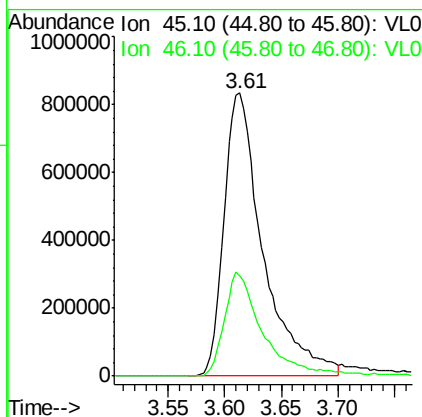
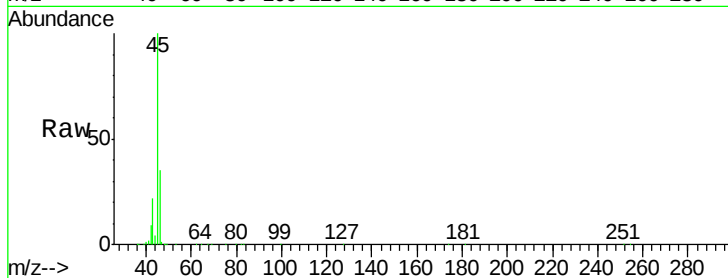


#13
Ethanol
Concen: 224.084 ppbv
RT: 3.61
Instrument : MSVOA_L
Delta R.T. :
Lab File: ClientSampleId :
Acq: 28 Sep 2021 15:00

Tgt Ion:
Ion Ratio
45 100
46 37.

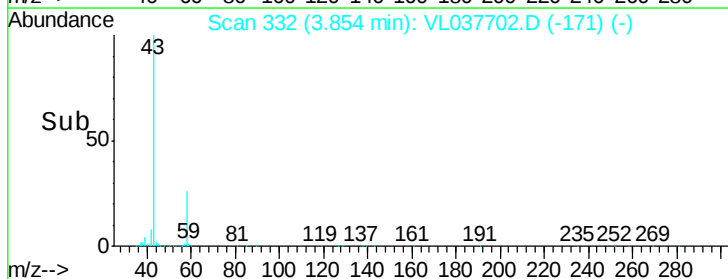
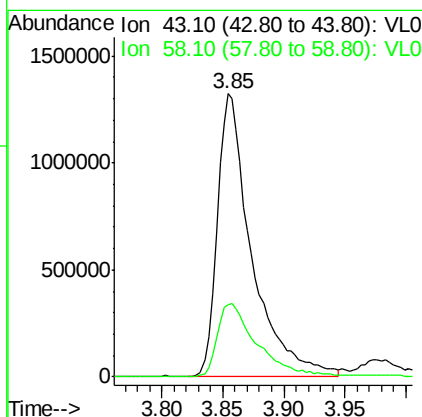
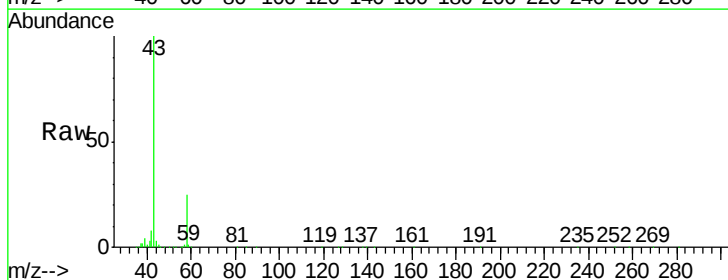
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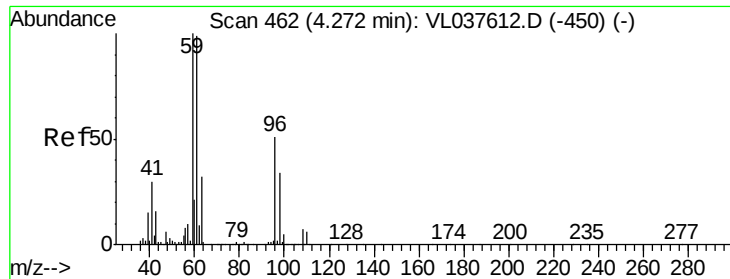
Reviewed By :Semsettin Yesilyurt 09/29/2021
Supervised By :Amit Patel 10/01/2021



#15
Acetone
Concen: 18.256 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.02 min
Lab File: VL037702.D
Acq: 28 Sep 2021 15:00

Tgt Ion: 43 Resp: 2608586
Ion Ratio Lower Upper
43 100
58 30.3 24.9 37.3



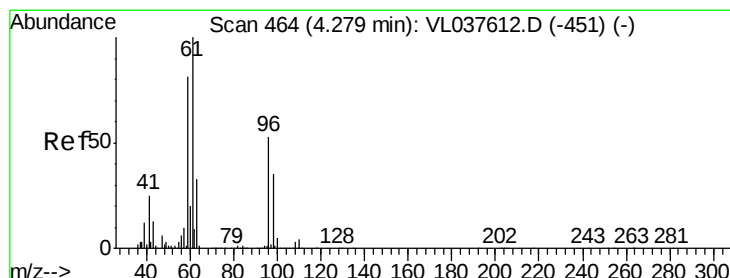
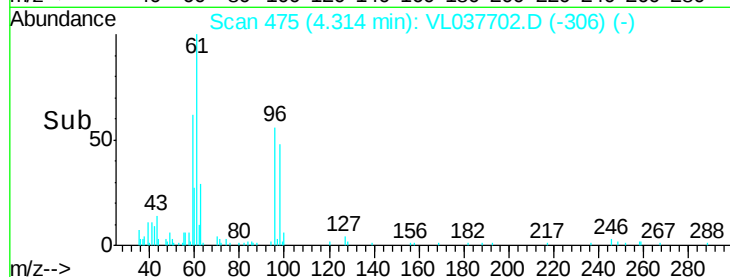
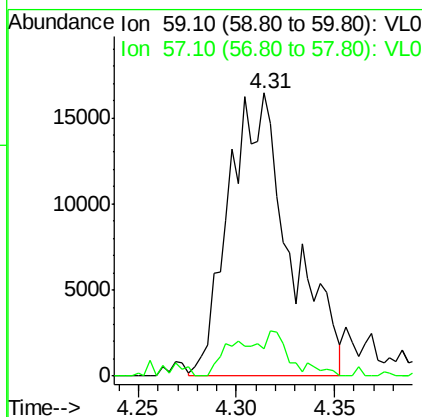
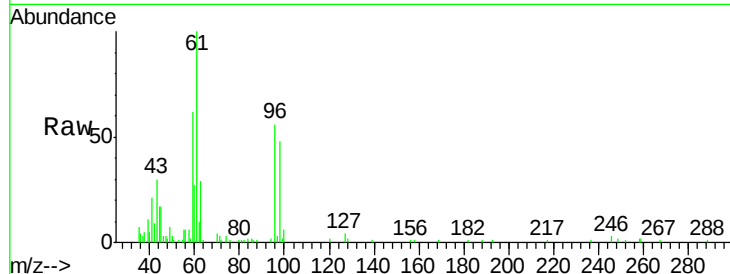


#17
 tert-Butyl alcohol
 Concen: 0.296 ppbv m
 RT: 4.31
 Instrument: MSVOA_1
 Delta R.T.
 Lab File: ClientSampleId :
 Acq: 28 Sep 2021 15:00

Tgt Ion:
 Ion Ratio
 59 100
 57 0.

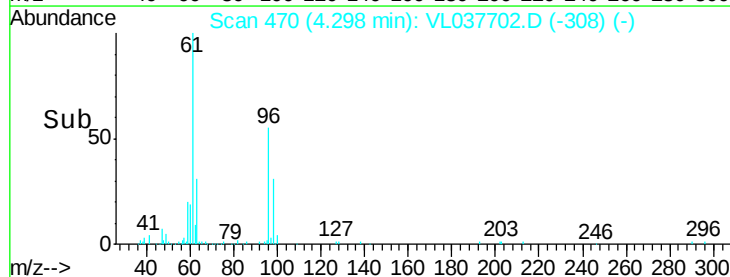
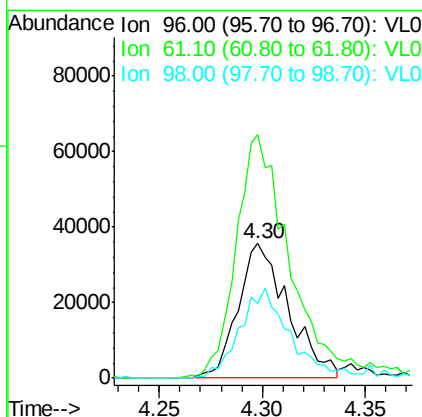
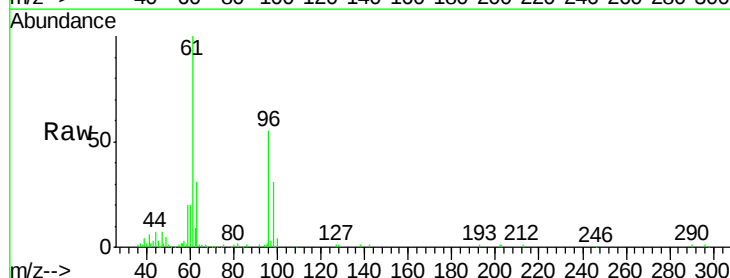
Manual Integrations
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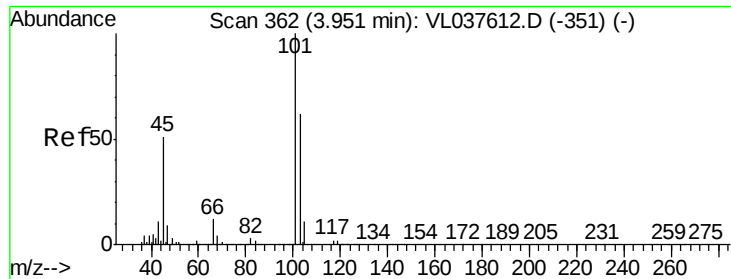
Reviewed By :Semsettin Yesilyurt 09/29/2021
 Supervised By :Amit Patel 10/01/2021



#18
 1,1-Dichloroethene
 Concen: 0.879 ppbv m
 RT: 4.30 min Scan# 470
 Delta R.T. 0.02 min
 Lab File: VL037702.D
 Acq: 28 Sep 2021 15:00

Tgt Ion: 96 Resp: 60376
 Ion Ratio Lower Upper
 96 100
 61 181.2 150.4 225.6
 98 55.5 52.1 78.1





#19

Isopropyl Alcohol

Concen: 6.885 ppbv

RT: 3.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 28 Sep 2021 15:00

Tgt Ion:

Ion Ratio

45 100

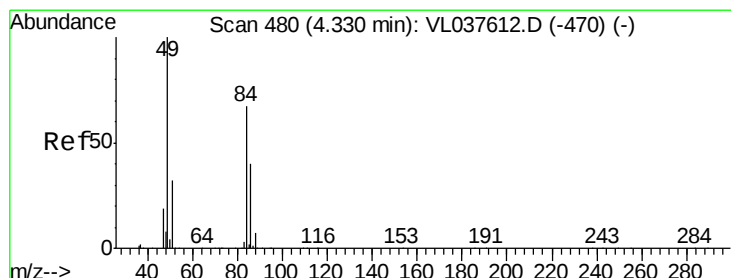
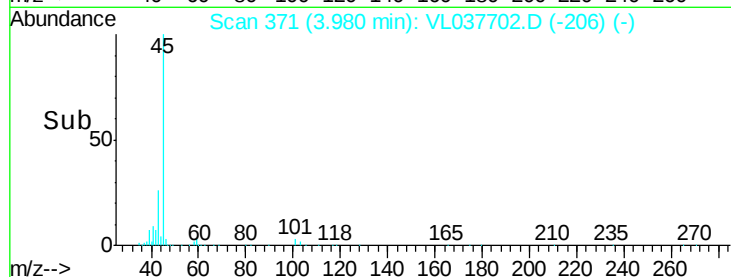
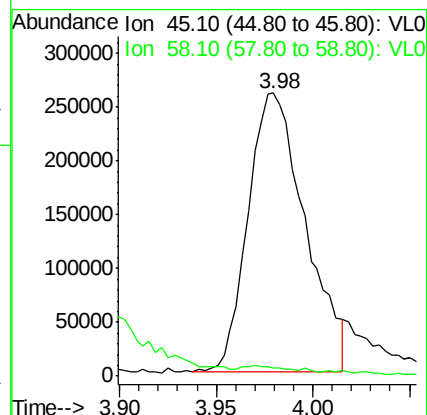
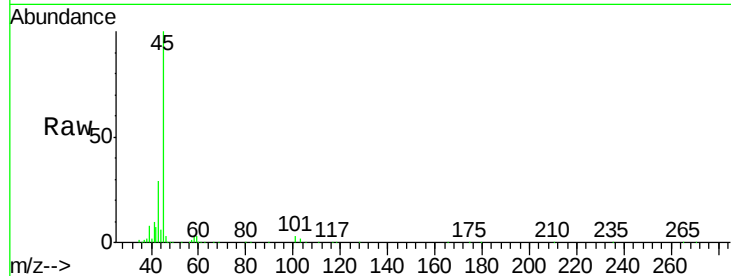
58 5.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/29/2021

Supervised By :Amit Patel 10/01/2021



#20

Methylene Chloride

Concen: 44.817 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.02 min

Lab File: VL037702.D

Acq: 28 Sep 2021 15:00

Tgt Ion: 84 Resp: 3057281

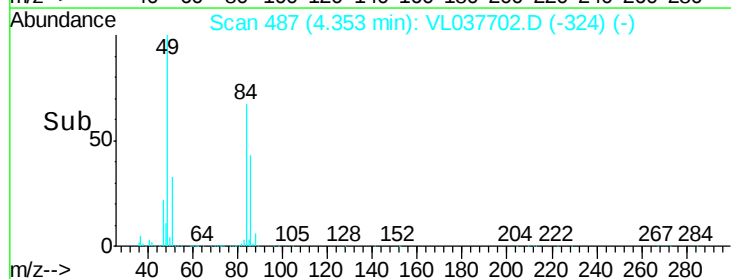
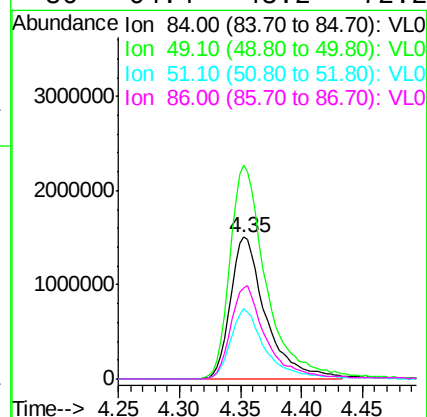
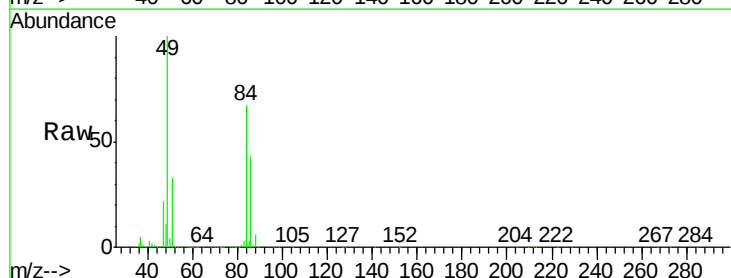
Ion Ratio Lower Upper

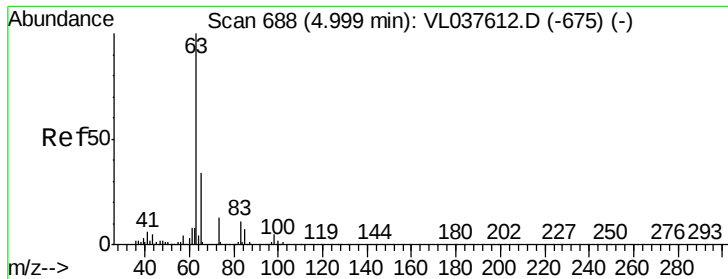
84 100

49 150.2 120.0 180.0

51 49.3 38.0 57.0

86 64.4 48.2 72.2





#24

1,1-Dichloroethane

Concen: 2.251 ppbv

RT: 5.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Sep 2021 15:00

Tgt Ion:

Ion Ratio

63 100

98 5.

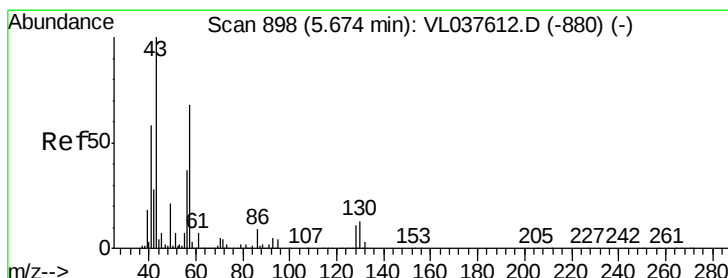
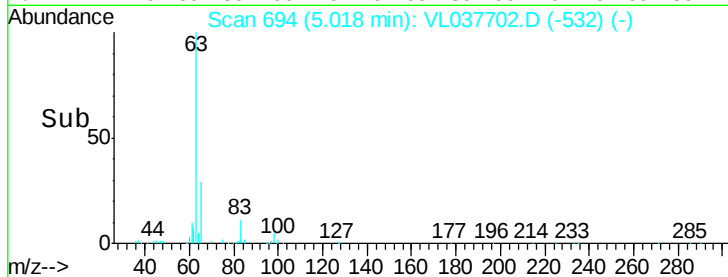
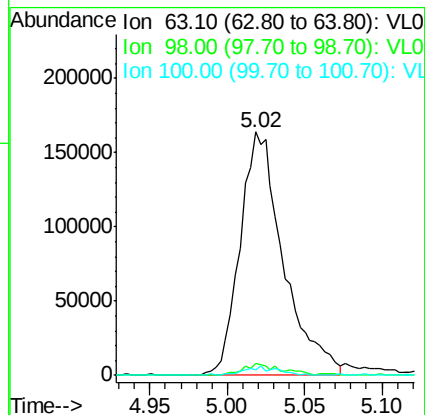
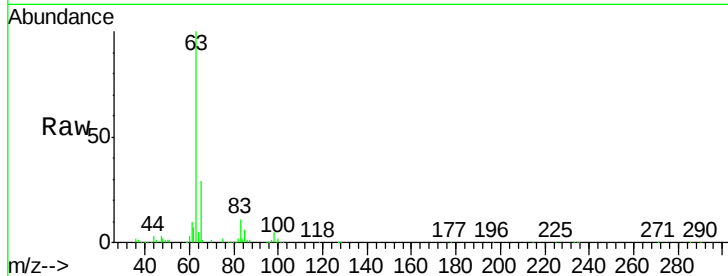
100 2.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/29/2021

Supervised By :Amit Patel 10/01/2021



#26

Hexane

Concen: 26.341 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.02 min

Lab File: VL037702.D

Acq: 28 Sep 2021 15:00

Tgt Ion: 57 Resp: 4330319

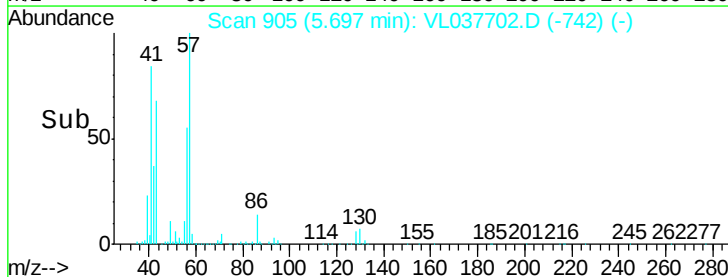
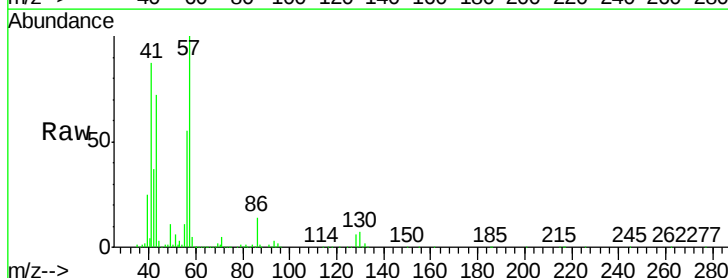
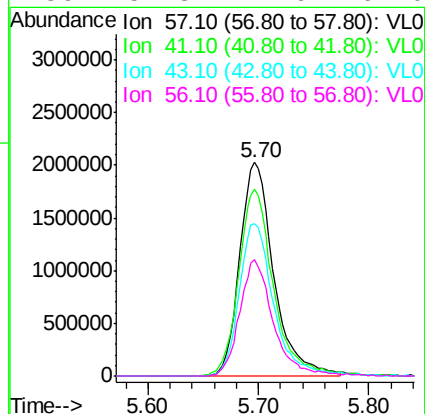
Ion Ratio Lower Upper

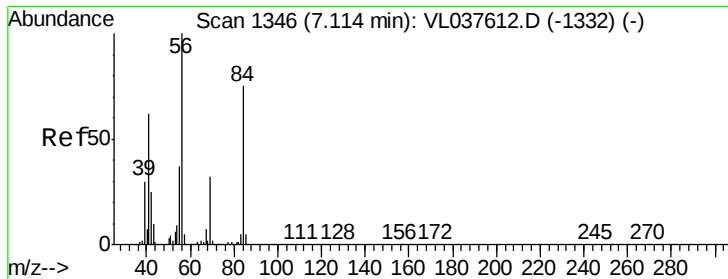
57 100

41 90.5 70.9 106.3

43 72.5 170.4 255.6#

56 54.3 42.6 64.0



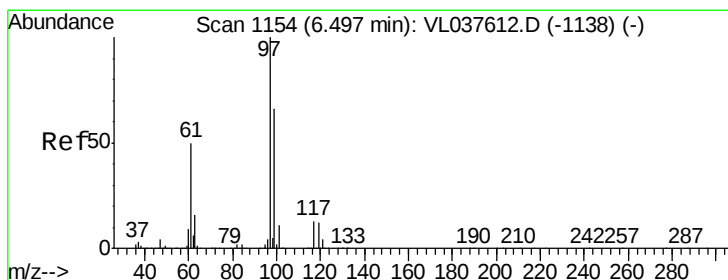
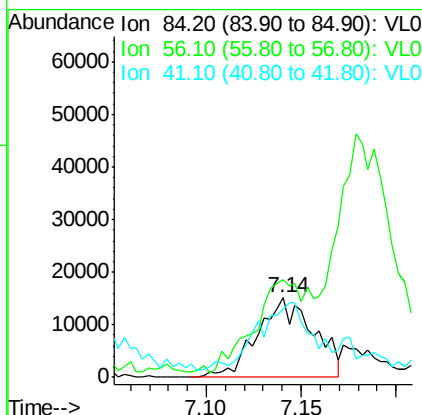
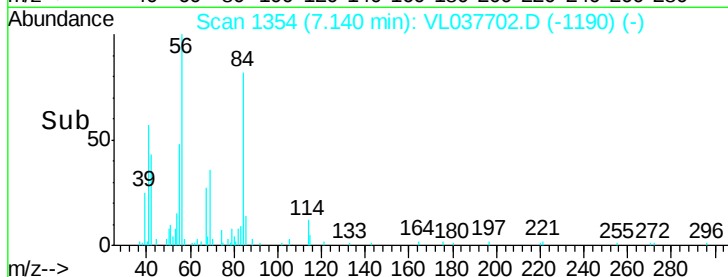
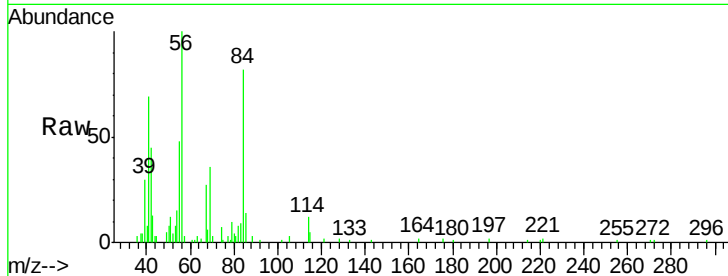


#30
Cyclohexane
Concen: 0.221 ppbv m
RT: 7.14
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 28 Sep 2021 15:00
EFFLUENT

Tgt Ion:
Ion Ratio
84 100
56 0.
41 99.

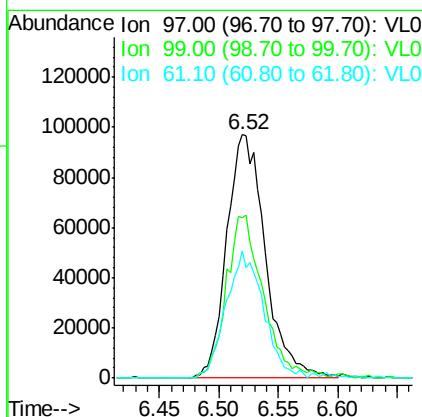
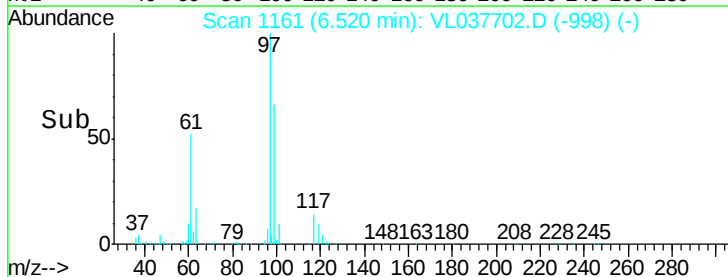
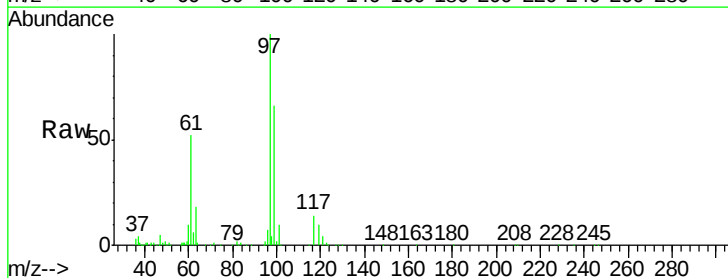
Manual Integrations
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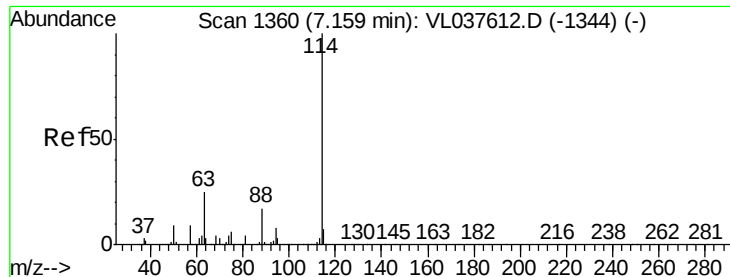
Reviewed By :Semsettin Yesilyurt 09/29/2021
Supervised By :Amit Patel 10/01/2021



#32
1,1,1-Trichloroethane
Concen: 0.976 ppbv
RT: 6.52 min Scan# 1161
Delta R.T. 0.02 min
Lab File: VL037702.D
Acq: 28 Sep 2021 15:00

Tgt Ion: 97 Resp: 218153
Ion Ratio Lower Upper
97 100
99 64.9 52.3 78.5
61 51.2 39.5 59.3



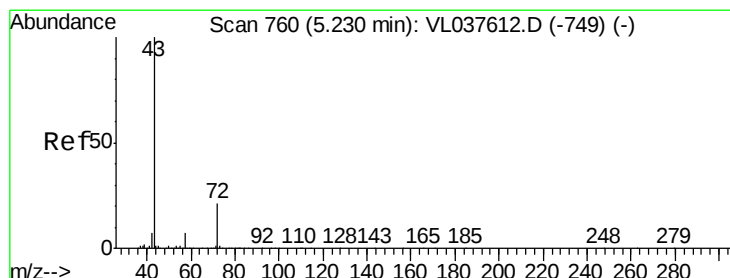
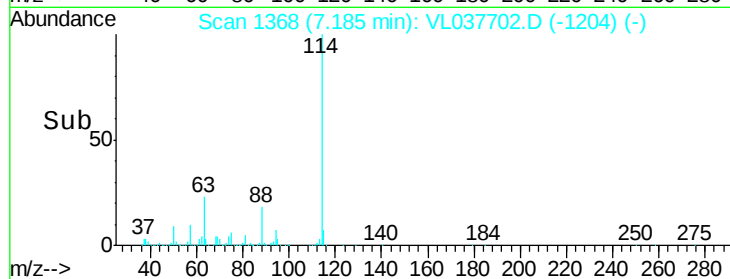
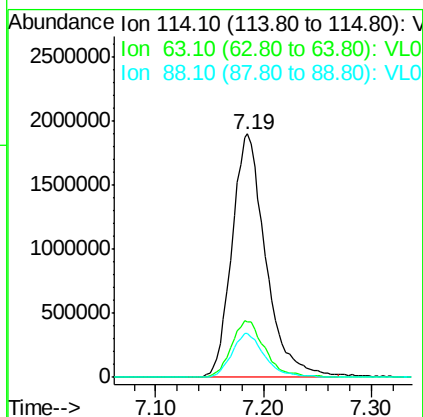
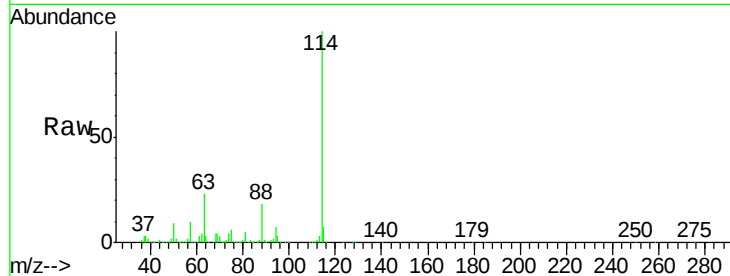


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Sep 2021 15:00

Tgt Ion: 1
 Ion Ratio
 114 100
 63 23.
 88 17.

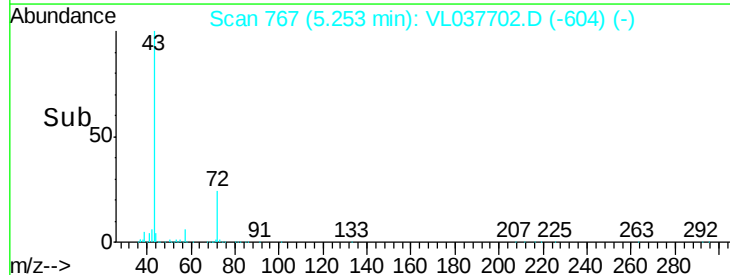
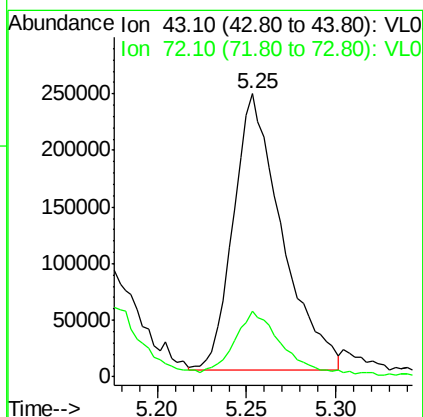
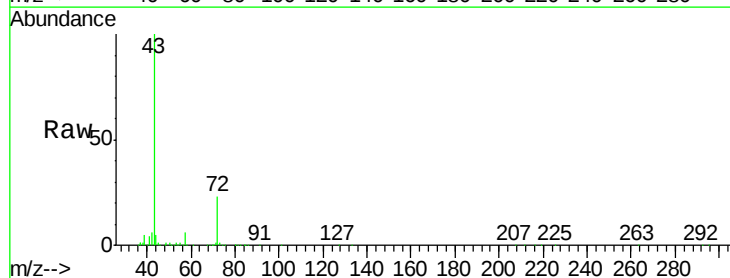
Manual Integrations
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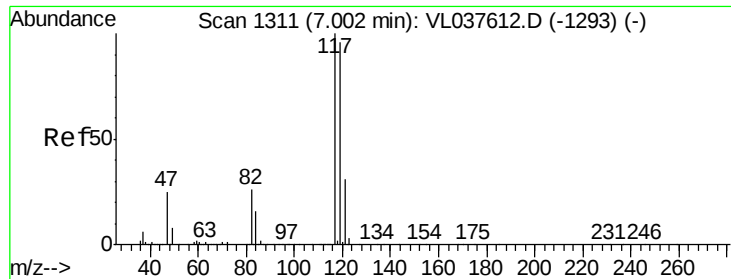
Reviewed By :Semsettin Yesilyurt 09/29/2021
 Supervised By :Amit Patel 10/01/2021



#34
 2-Butanone
 Concen: 2.750 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.02 min
 Lab File: VL037702.D
 Acq: 28 Sep 2021 15:00

Tgt Ion: 43 Resp: 462883
 Ion Ratio Lower Upper
 43 100
 72 25.4 18.4 27.6





#35

Carbon Tetrachloride

Concen: 0.031 ppbv m

RT: 7.02 Instrument:

Delta R.T. MSVOA_L

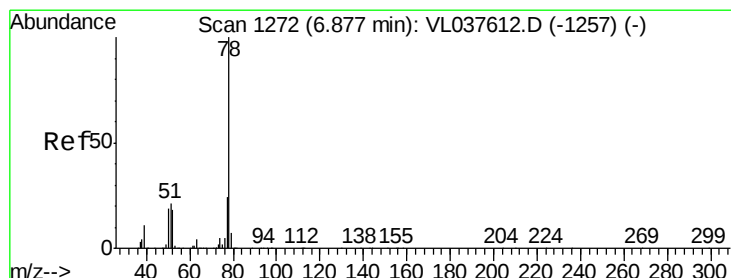
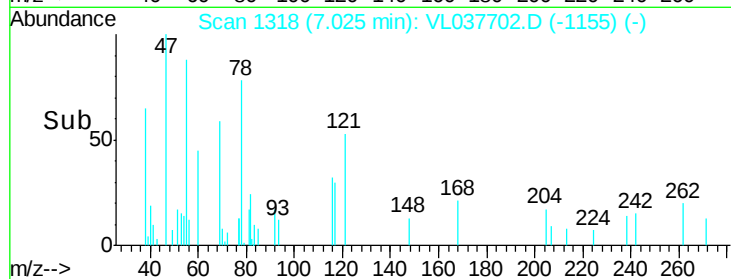
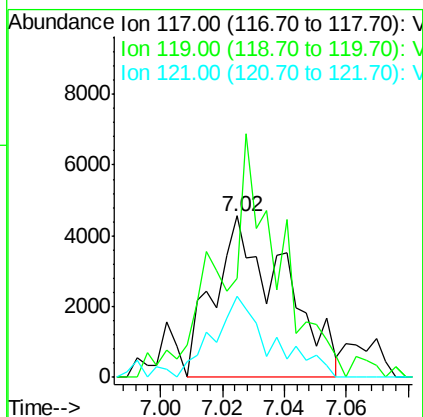
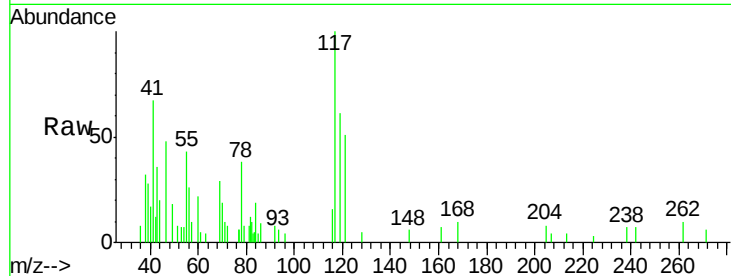
Lab File: ClientSampleId:

Acq: 28 Sep 2021 15:00 EFFLUENT

Tgt Ion: 1
Ion Ratio
117 100
119 61.
121 50.

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/29/2021
Supervised By :Amit Patel 10/01/2021



#36

Benzene

Concen: 0.184 ppbv m

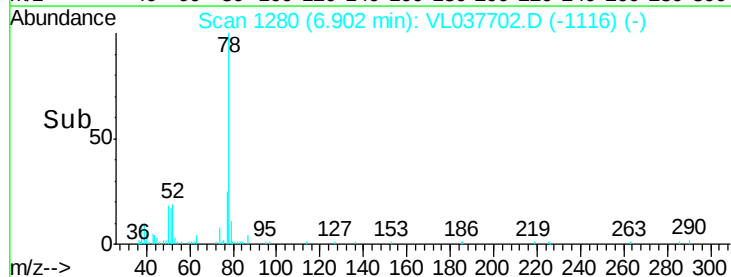
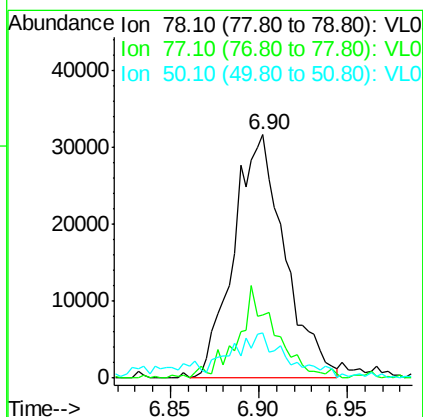
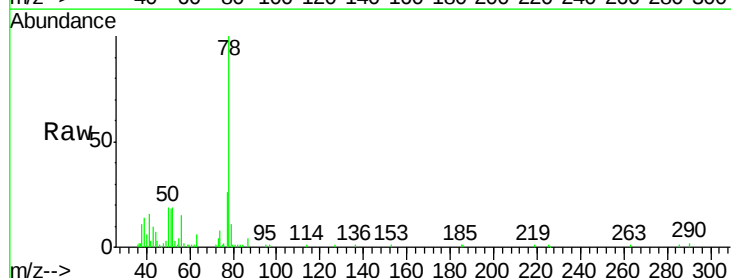
RT: 6.90 min Scan# 1280

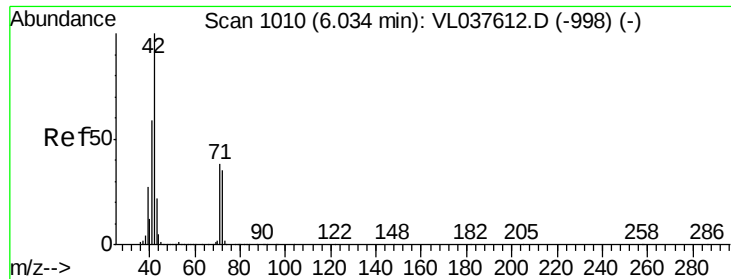
Delta R.T. 0.03 min

Lab File: VL037702.D

Acq: 28 Sep 2021 15:00

Tgt Ion: 78 Resp: 63669
Ion Ratio Lower Upper
78 100
77 25.8 19.0 28.4
50 18.8 14.8 22.2





#41

Tetrahydrofuran

Concen: 1.866 ppbv m

RT: 6.07

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 28 Sep 2021 15:00

Tgt Ion:

Ion Ratio

42 100

72 35.

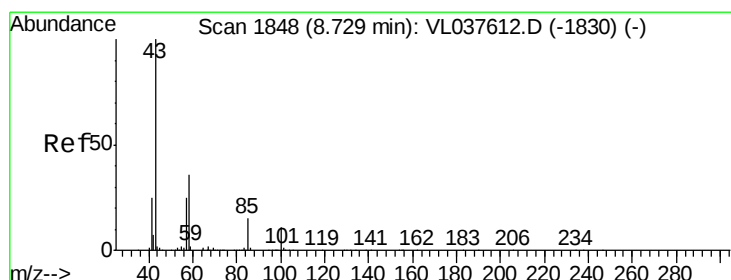
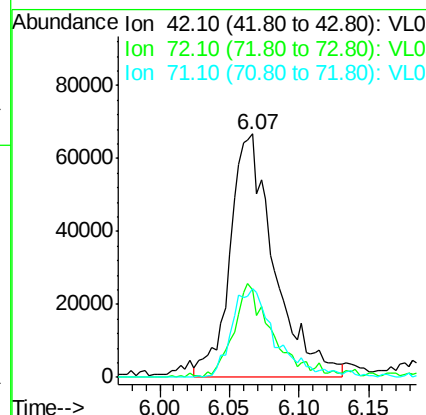
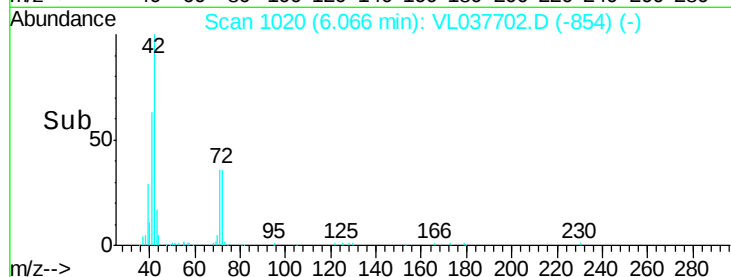
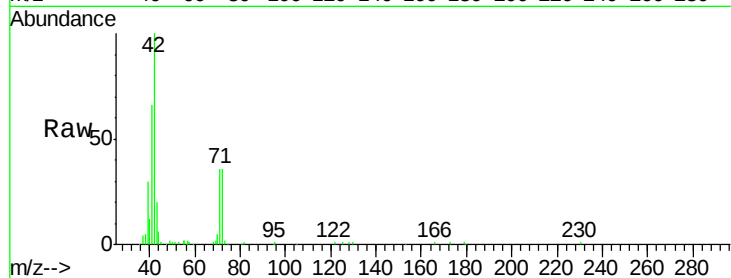
71 37.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/29/2021

Supervised By :Amit Patel 10/01/2021



#50

4-Methyl-2-Pentanone

Concen: 0.130 ppbv m

RT: 8.76 min Scan# 1858

Delta R.T. 0.03 min

Lab File: VL037702.D

Acq: 28 Sep 2021 15:00

Tgt Ion: 43 Resp: 27795

Ion Ratio Lower Upper

43 100

58 44.1 29.4 44.2

