

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042021\
 Data File : VL036825.D
 Acq On : 20 Apr 2021 17:17
 Operator : SY/AP
 Sample : M2096-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/21/2021
 Supervised By : Mahesh Dadoda 04/21/2021

Quant Time: Apr 21 12:37:33 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1259520	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3144283	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2606760	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1923733	9.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	50467	0.246 ppbv	96
3) Chlorodifluoromethane	2.99	51	83111	0.353 ppbv #	91
4) Chloromethane	3.15	50	43687m	0.526 ppbv	
9) Propene	3.02	41	68973	0.919 ppbv	97
10) Heptane	8.14	43	28503m	0.149 ppbv	
11) Trichlorofluoromethane	3.96	101	46315	0.221 ppbv	98
13) Ethanol	3.62	45	410536m	45.954 ppbv	
15) Acetone	3.87	43	499493m	4.029 ppbv	
19) Isopropyl Alcohol	4.01	45	78483m	1.151 ppbv	
20) Methylene Chloride	4.35	84	93339	1.608 ppbv	94
26) Hexane	5.69	57	164704	1.204 ppbv #	55
30) Cyclohexane	7.17	84	29766m	0.268 ppbv	
34) 2-Butanone	5.26	43	208630m	1.359 ppbv	
35) Carbon Tetrachloride	7.03	117	18410m	0.076 ppbv	
36) Benzene	6.91	78	80087m	0.276 ppbv	
44) 2,2,4-Trimethylpentane	7.89	57	65273	0.128 ppbv #	72
52) Tetrachloroethene	11.25	164	4706m	0.044 ppbv	
53) Toluene	9.82	91	138568	0.449 ppbv	95
58) Ethyl Benzene	12.72	91	41481m	0.109 ppbv	
59) m/p-Xylene	12.99	91	93880m	0.284 ppbv	

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL042021\  
Data File : VL036825.D  
Acq On    : 20 Apr 2021 17:17  
Operator  : SY/AP  
Sample    : M2096-01  
Misc      : 400mL/MSVOA L  
ALS Vial  : 1 Sample Multiplier: 1
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Instrument :
MSVOA_L
ClientSampleId :
OA1

Manual Integrations

Quant Time: Apr 21 12:37:33 2021

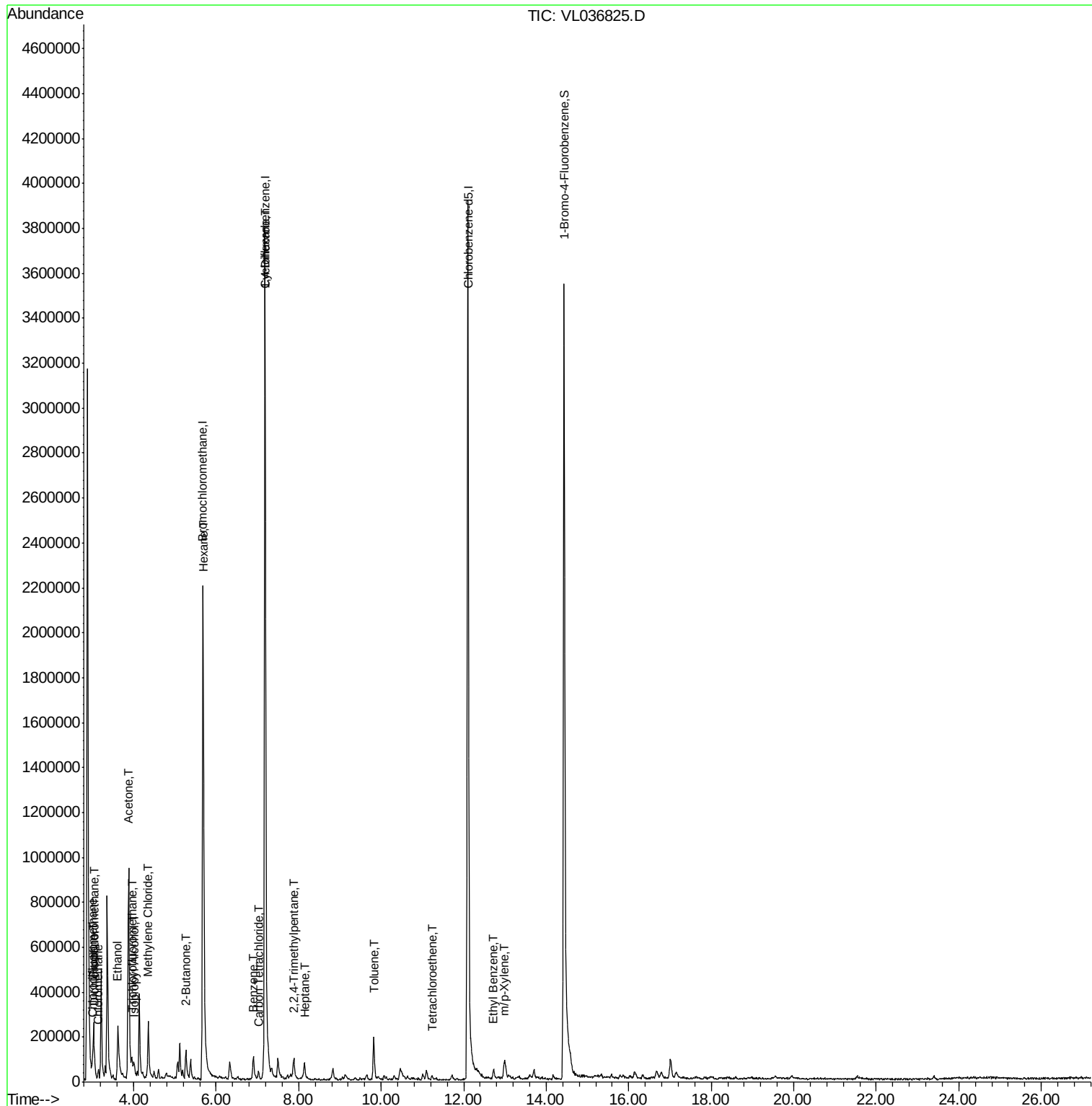
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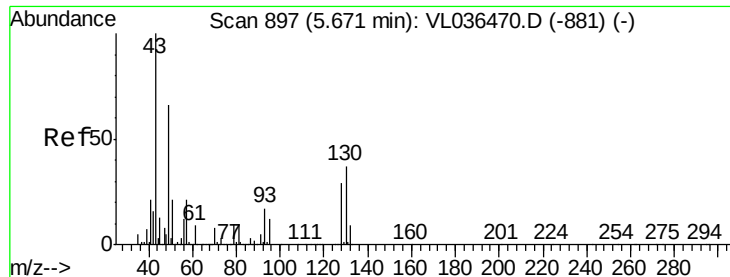
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Thu Mar 25 09:42:40 2021

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 04/21/2021
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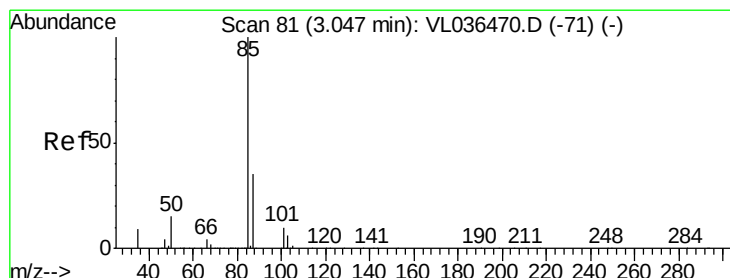
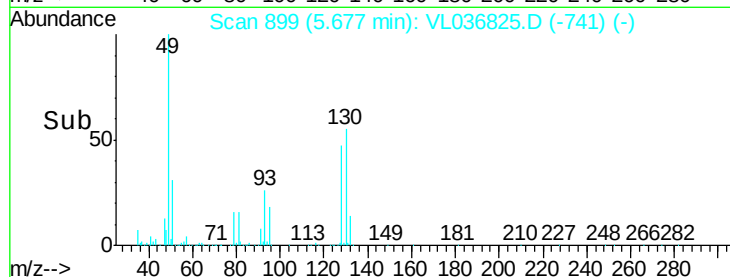
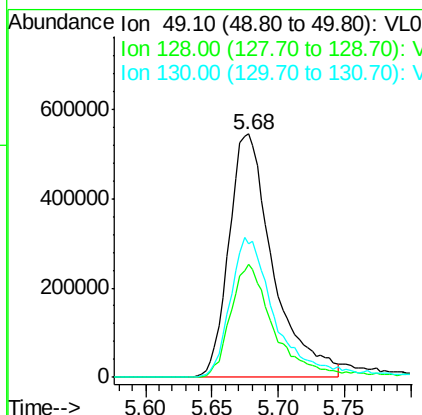
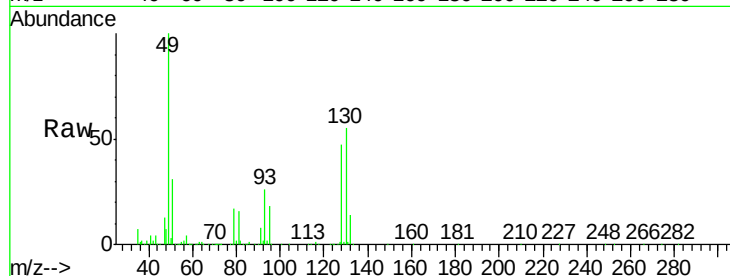


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68
 Instrument : MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 20 Apr 2021 17:17

Tot Ion:
 Ion Ratio
 49 100
 128 47.
 130 59.

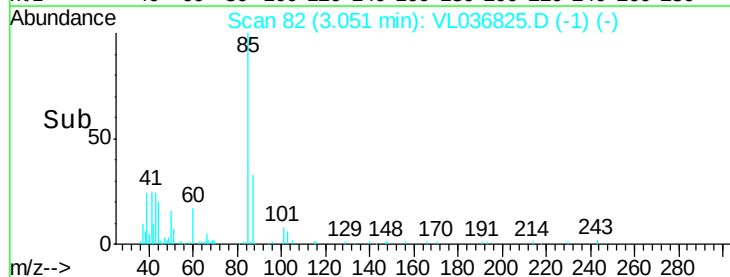
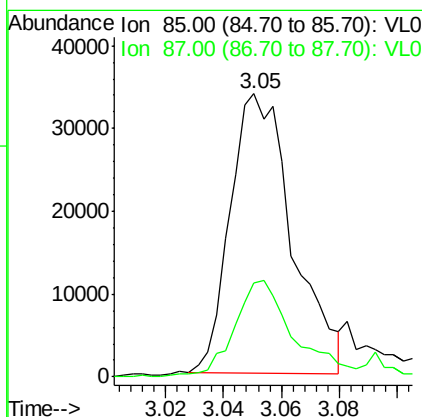
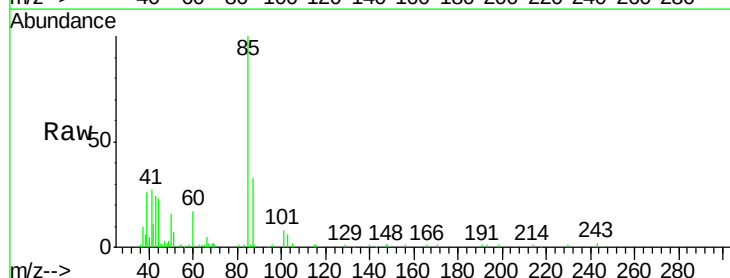
Manual Integrations
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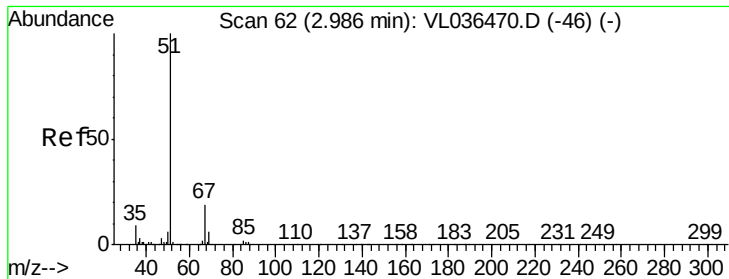
Reviewed By :Semsettin Yesilyurt 04/21/2021
 Supervised By :Mahesh Dadoda 04/21/2021



#2
 Dichlorodifluoromethane
 Concen: 0.246 ppbv
 RT: 3.05 min Scan# 82
 Delta R.T. 0.00 min
 Lab File: VL036825.D
 Acq: 20 Apr 2021 17:17

Tgt Ion: 85 Resp: 50467
 Ion Ratio Lower Upper
 85 100
 87 32.6 27.8 41.8





#3

Chlorodifluoromethane

Concen: 0.353 ppbv

RT: 2.99 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 17:17

Tot Ion:

Ion Ratio

51 100

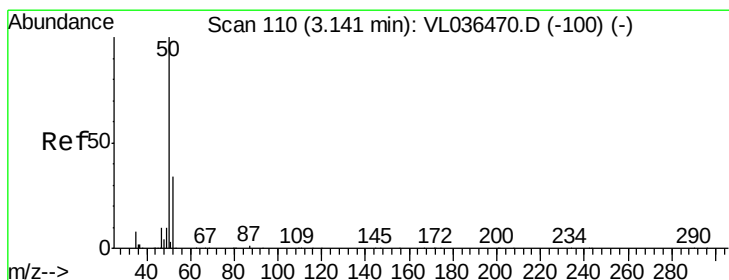
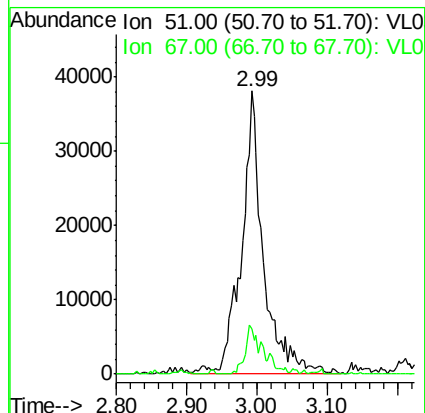
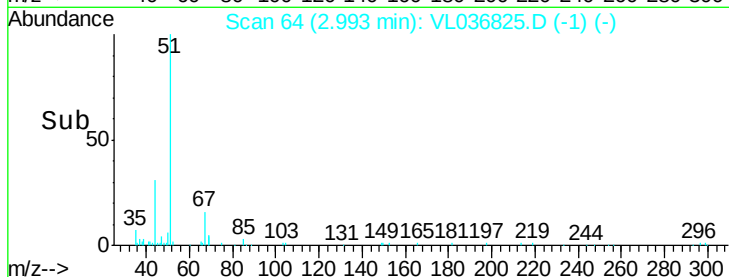
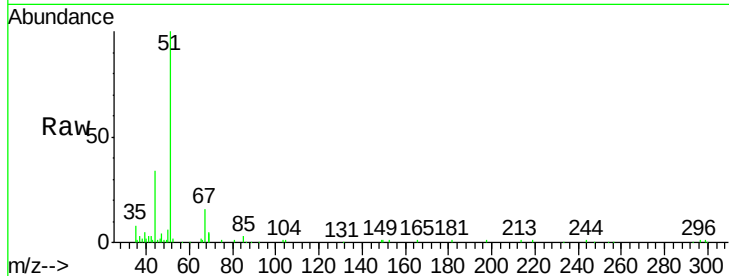
67 14.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2021

Supervised By :Mahesh Dadoda 04/21/2021



#4

Chloromethane

Concen: 0.526 ppbv m

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL036825.D

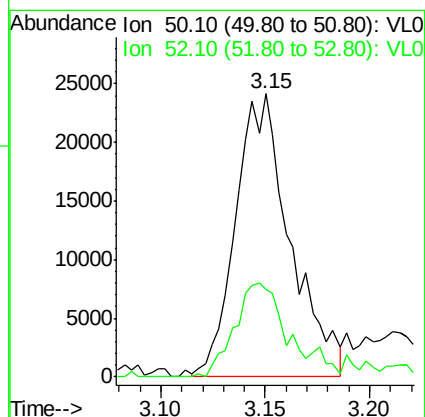
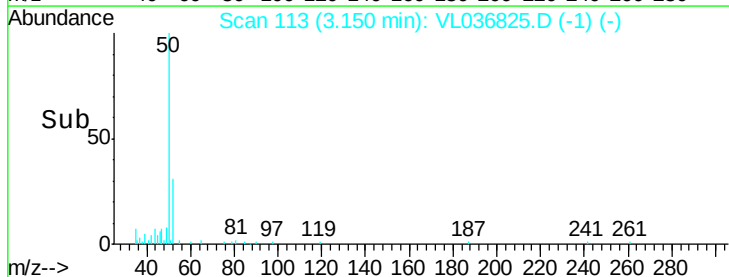
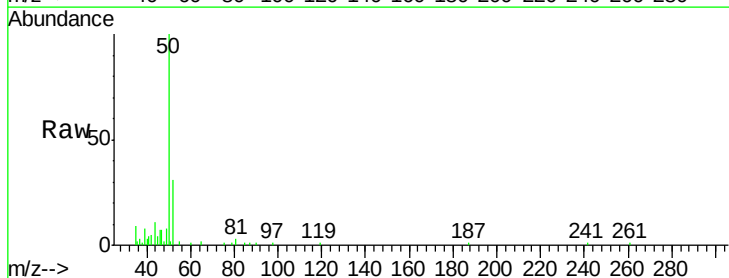
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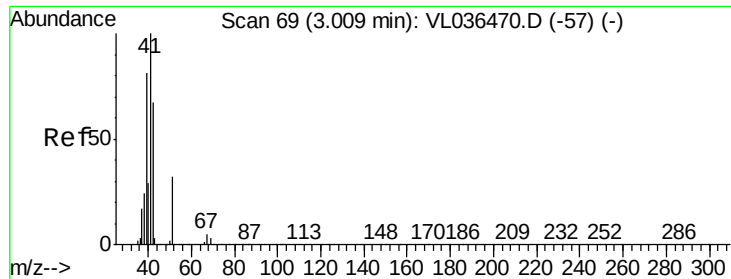
Tgt Ion: 50 Resp: 43687

Ion Ratio Lower Upper

50 100

52 30.9 27.0 40.6



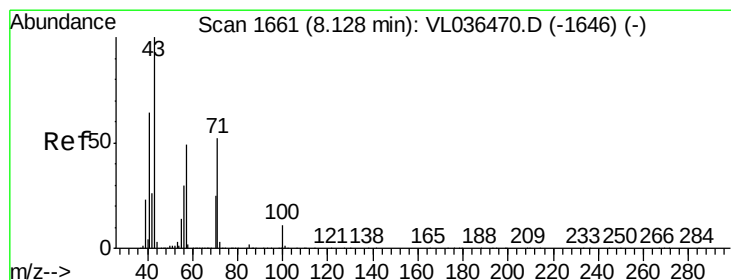
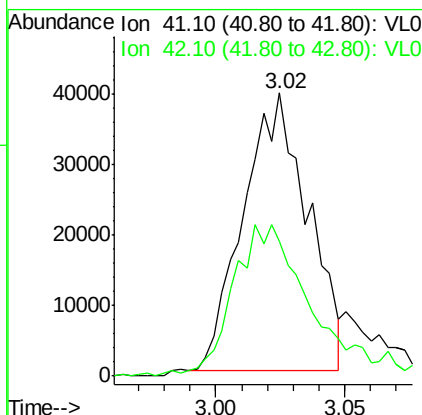
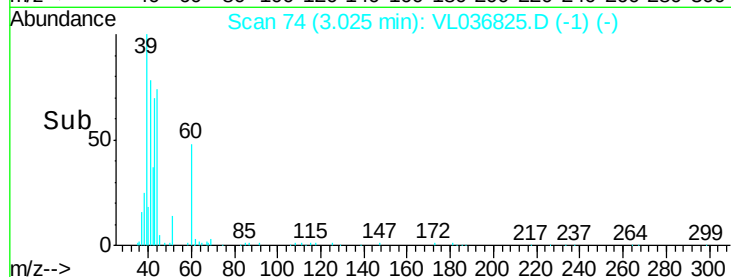
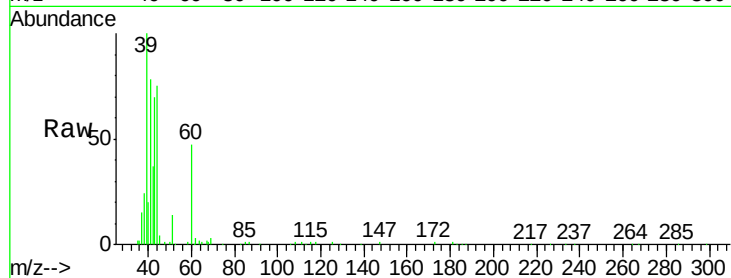


#9
 Propene
 Concen: 0.919 ppbv
 RT: 3.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Apr 2021 17:17

Tot Ion:
 Ion Ratio
 41 100
 42 68.

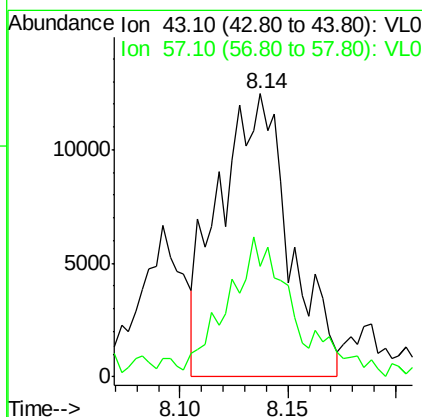
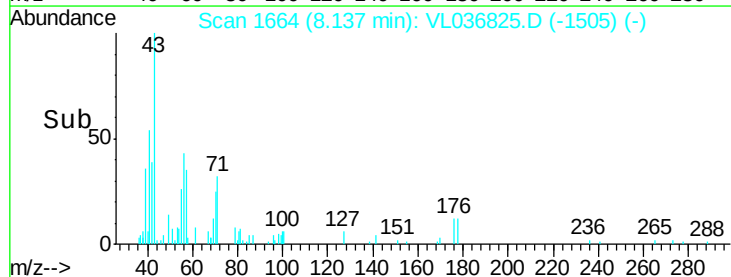
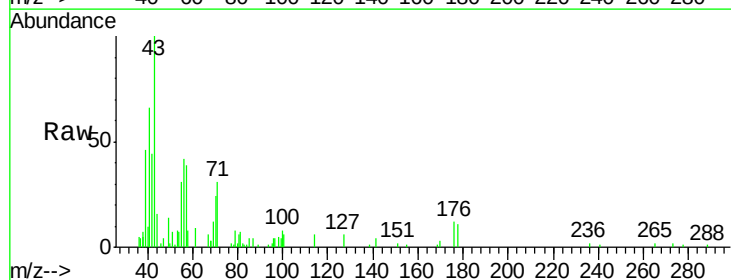
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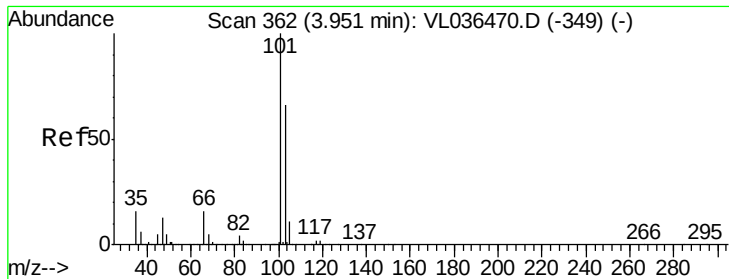
Reviewed By :Semsettin Yesilyurt 04/21/2021
 Supervised By :Mahesh Dadoda 04/21/2021



#10
 Heptane
 Concen: 0.149 ppbv m
 RT: 8.14 min Scan# 1664
 Delta R.T. 0.01 min
 Lab File: VL036825.D
 Acq: 20 Apr 2021 17:17

Tgt Ion: 43 Resp: 28503
 Ion Ratio Lower Upper
 43 100
 57 48.5 39.0 58.6



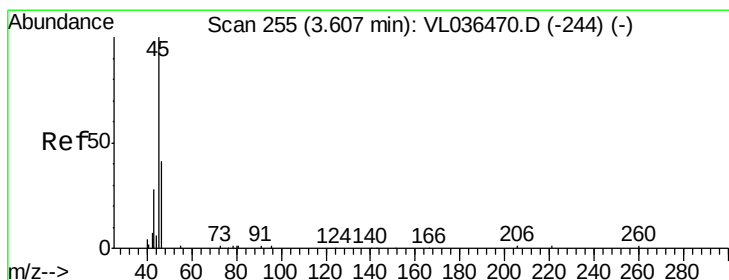
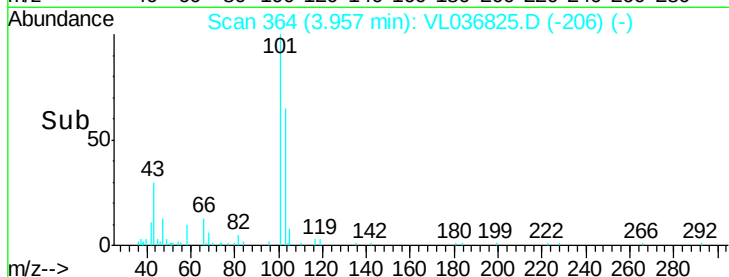
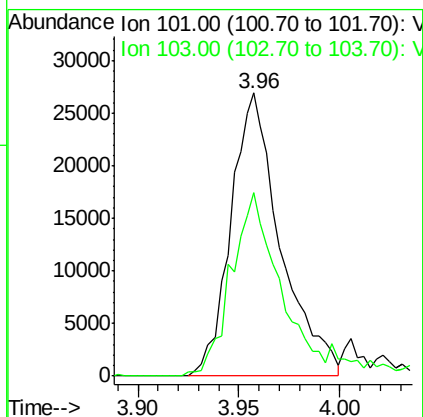
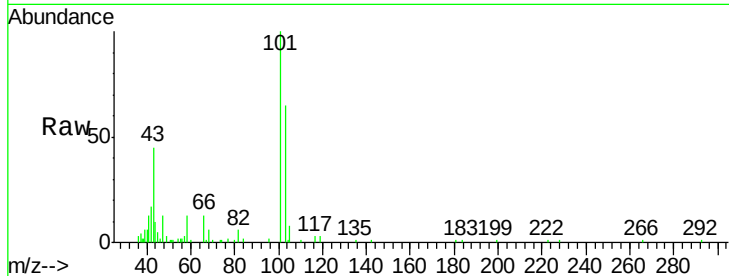


#11
Trichlorofluoromethane
Concen: 0.221 ppbv
RT: 3.96
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Apr 2021 17:17

Tot Ion:1
Ion Rati
101 100
103 63.

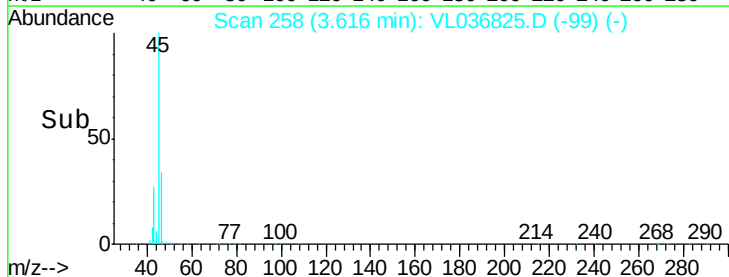
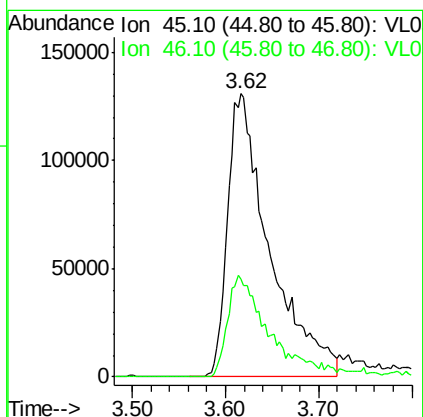
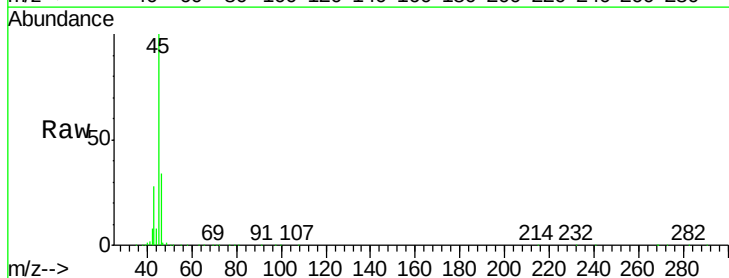
Manual Integrations
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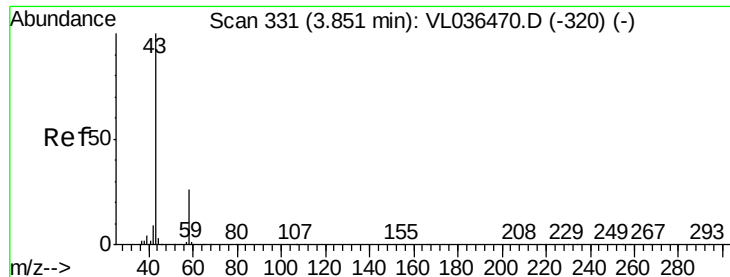
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#13
Ethanol
Concen: 45.954 ppbv m
RT: 3.62 min Scan# 258
Delta R.T. 0.01 min
Lab File: VL036825.D
Acq: 20 Apr 2021 17:17

Tgt Ion: 45 Resp: 410536
Ion Ratio Lower Upper
45 100
46 36.0 16.6 66.2



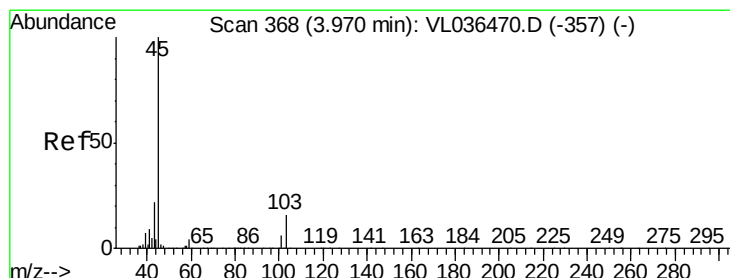
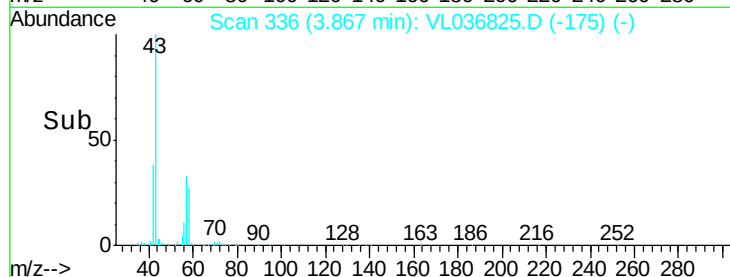
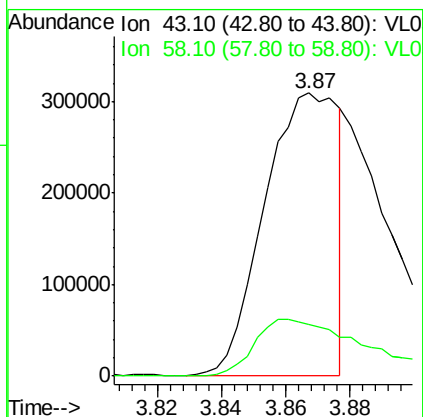
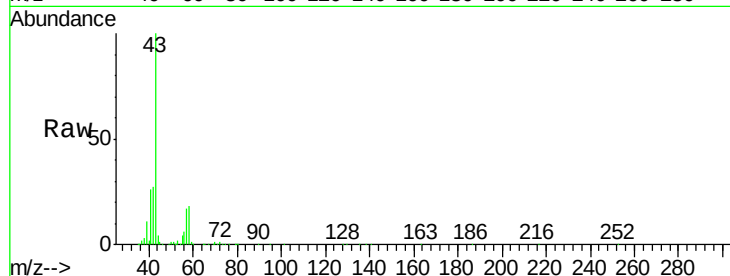


#15
Acetone
Concen: 4.029 ppbv m
RT: 3.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Apr 2021 17:17

Tot Ion:
Ion Ratio
43 100
58 36.

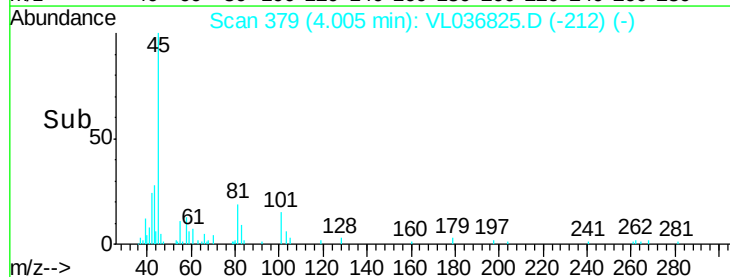
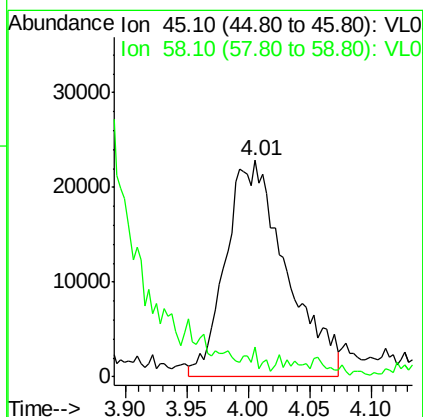
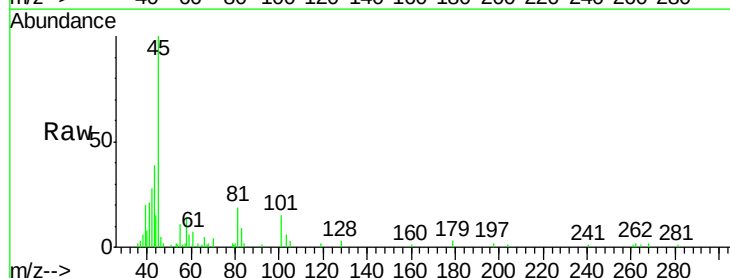
Manual Integrations
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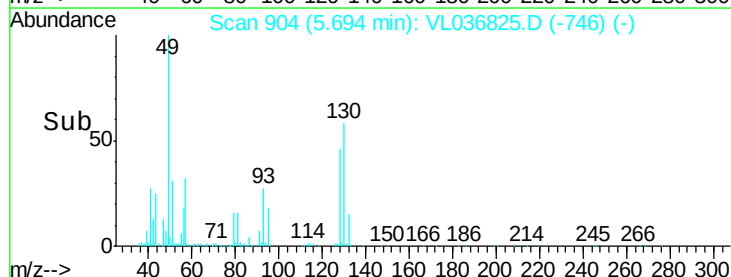
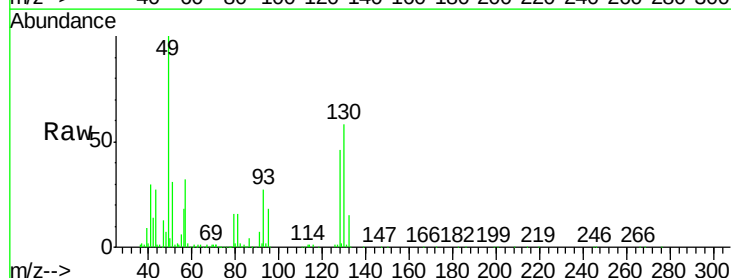
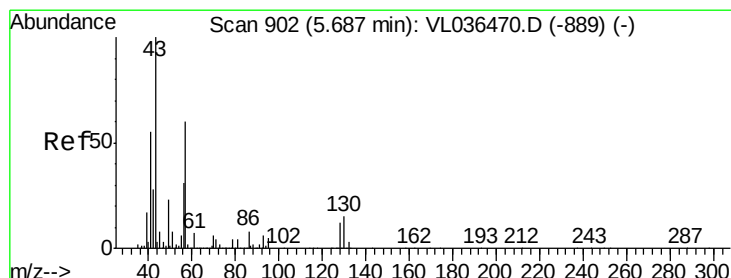
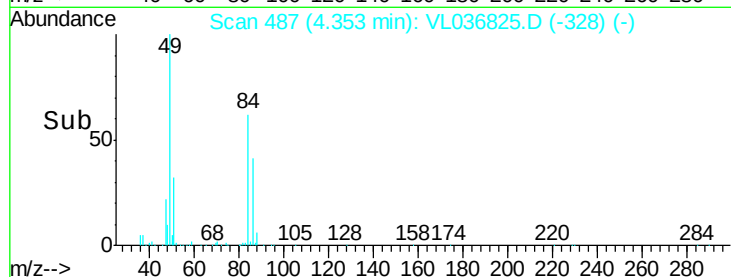
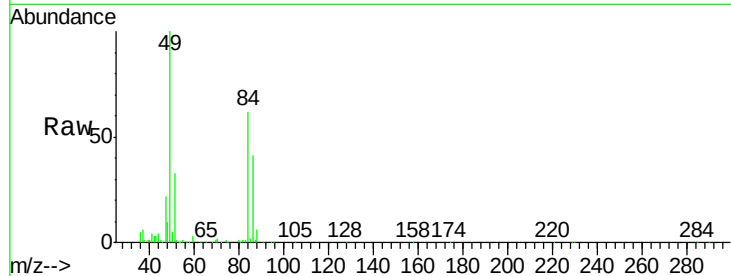
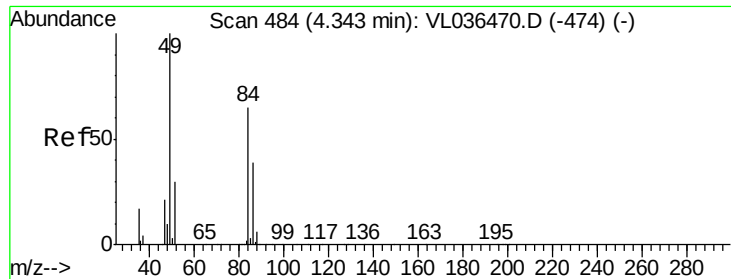
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#19
Isopropyl Alcohol
Concen: 1.151 ppbv m
RT: 4.01 min Scan# 379
Delta R.T. 0.04 min
Lab File: VL036825.D
Acq: 20 Apr 2021 17:17

Tgt Ion: 45 Resp: 78483
Ion Ratio Lower Upper
45 100
58 0.0 2.9 4.3#



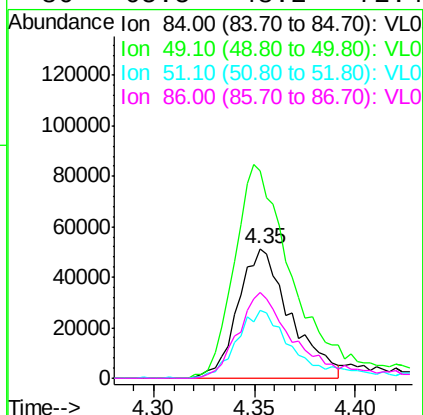


#20
Methylene Chloride
Concen: 1.608 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 20 Apr 2021 17:17

Tot Ion:
Ion Ratio
84 100
49 160.
51 52.
86 65.5 48.2 72.4

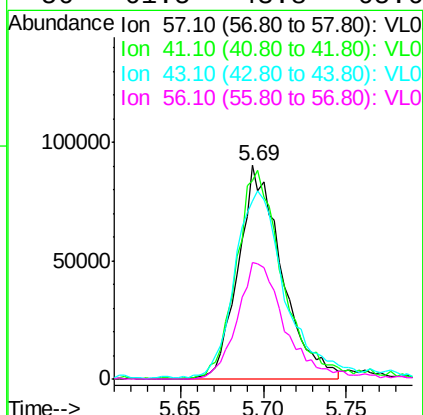
Manual Integrations
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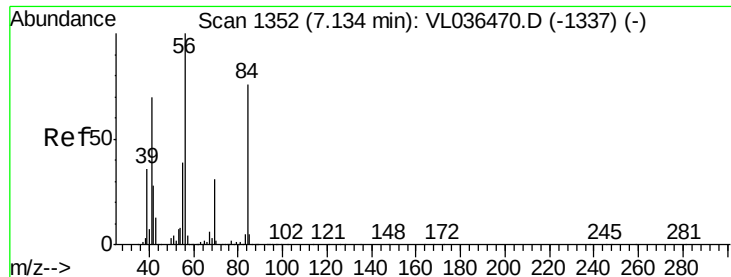
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#26
Hexane
Concen: 1.204 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL036825.D
Acq: 20 Apr 2021 17:17

Tgt Ion: 57 Resp: 164704
Ion Ratio Lower Upper
57 100
41 105.6 77.2 115.8
43 105.5 173.8 260.6#
56 61.5 43.8 65.6



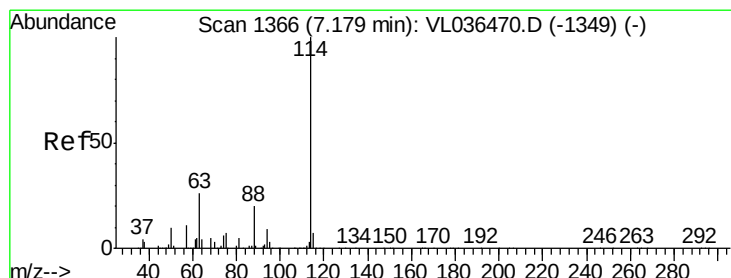
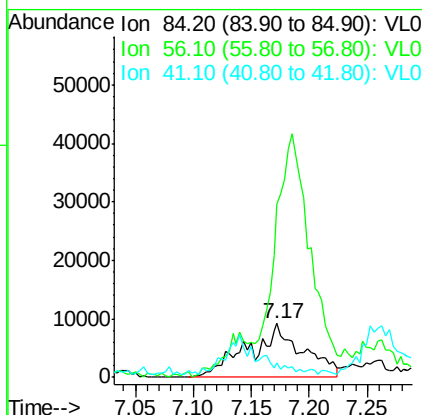
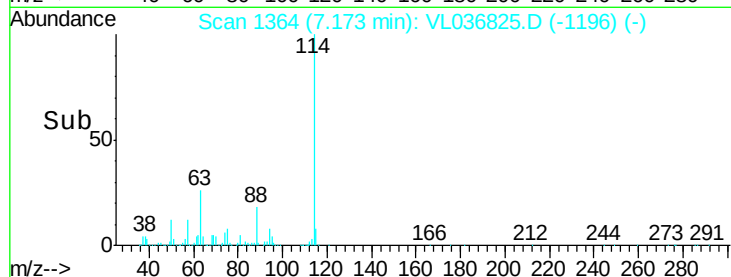
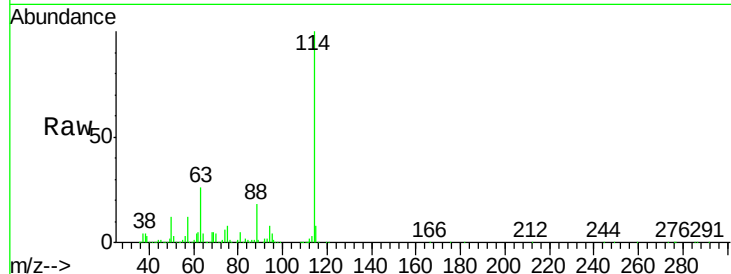


#30
Cvclohexane
Concen: 0.268 ppbv m
RT: 7.17
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 20 Apr 2021 17:17

Tot Ion:
Ion Ratio
84 100
56 0.
41 44.

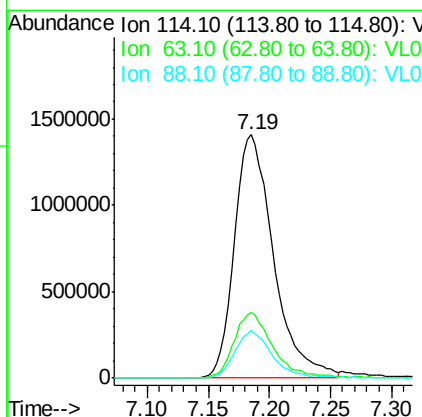
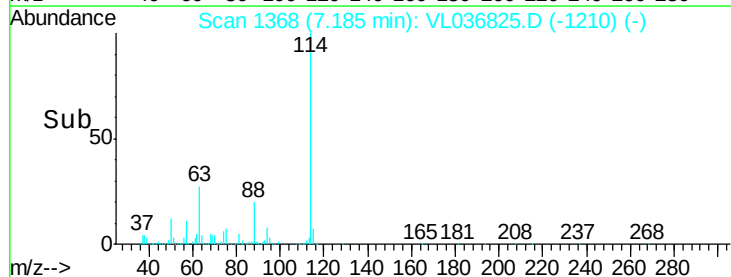
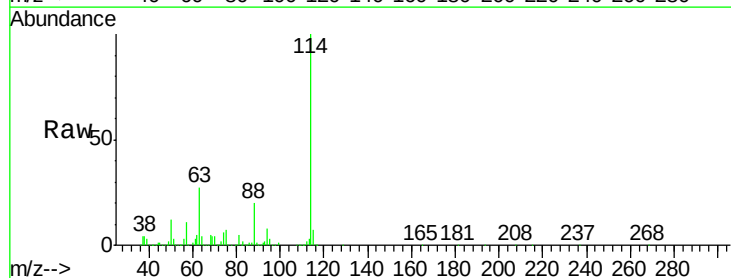
Manual Integrations
APPROVED

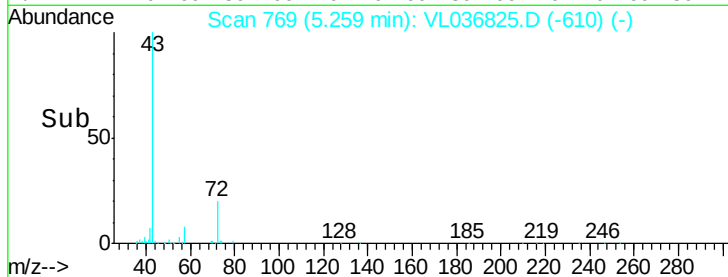
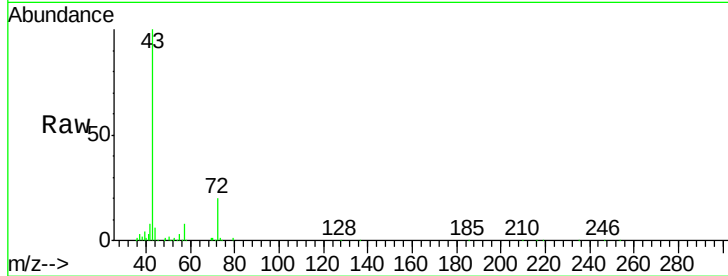
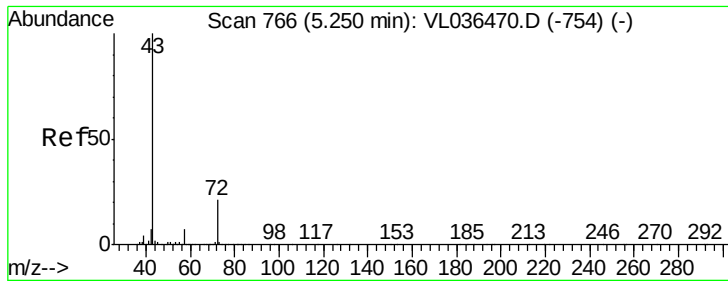
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VL036825.D
Acq: 20 Apr 2021 17:17

Tgt Ion:114 Resp: 3144283
Ion Ratio Lower Upper
114 100
63 27.1 22.4 33.6
88 19.0 15.4 23.0



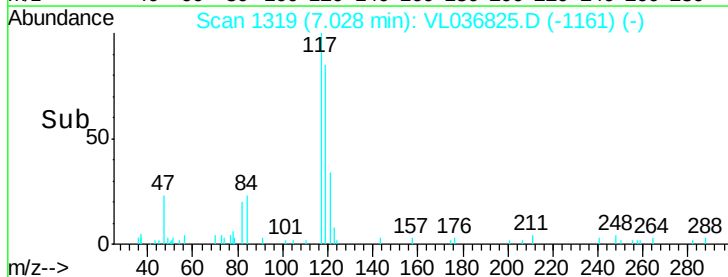
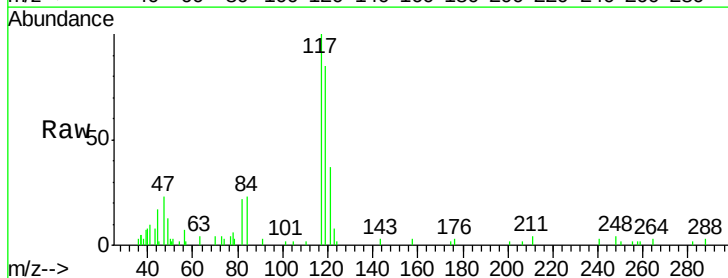
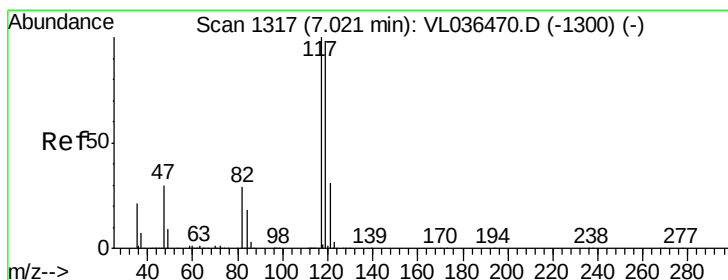
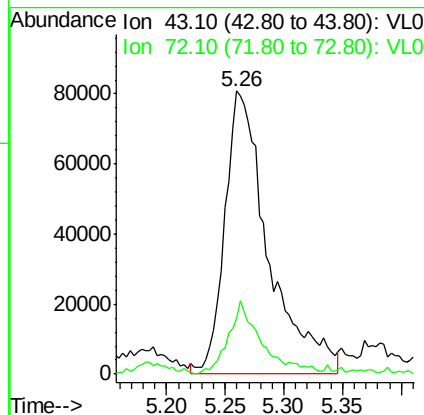


#34
2-Butanone
Concen: 1.359 ppbv m
RT: 5.26
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId :
Acq: 20 Apr 2021 17:17

Tot Ion:
Ion Ratio
43 100
72 20.

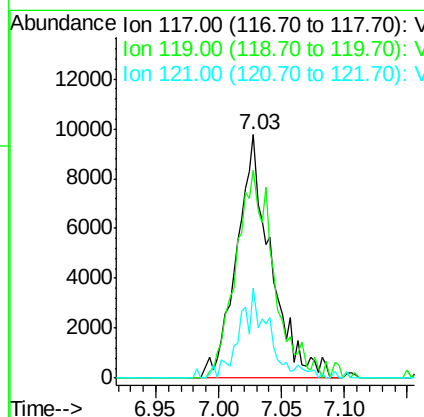
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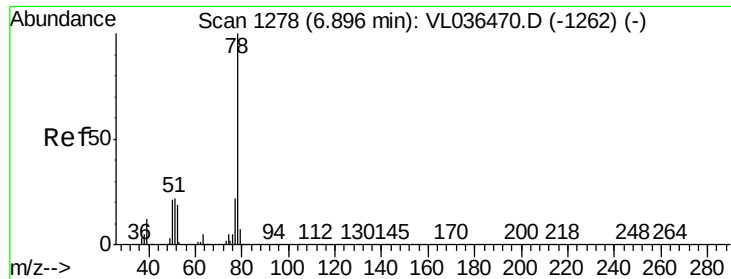
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 7.03 min Scan# 1319
Delta R.T. 0.01 min
Lab File: VL036825.D
Acq: 20 Apr 2021 17:17

Tgt Ion:117 Resp: 18410
Ion Ratio Lower Upper
117 100
119 85.2 78.2 117.2
121 37.2 24.5 36.7#





#36

Benzene

Concen: 0.276 ppbv m

RT: 6.91

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 17:17

Tot Ion:

Ion Ratio

78 100

77 20.

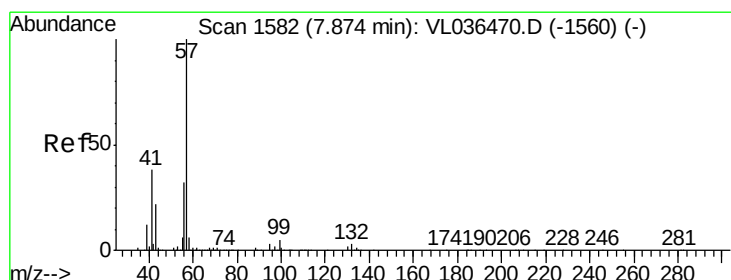
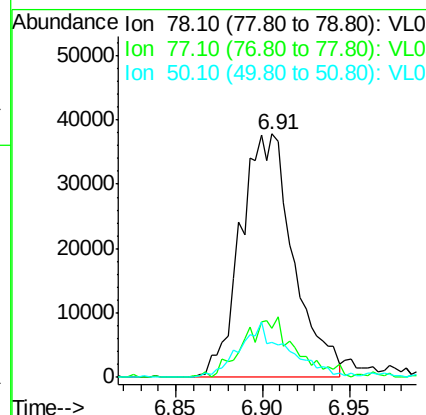
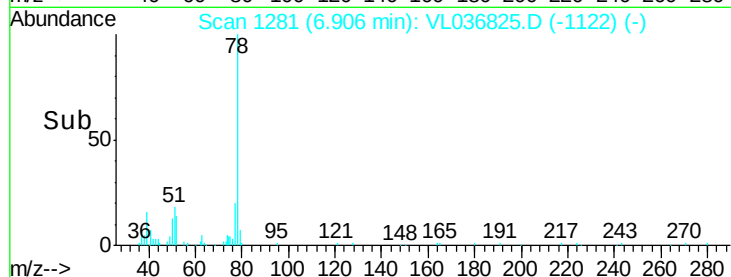
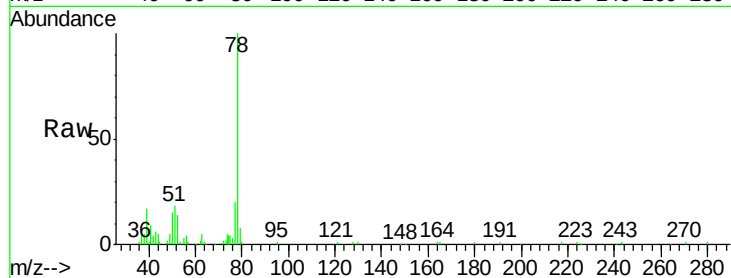
50 14.

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Supervised By :Mahesh Dadoda 04/21/2021



#44

2,2,4-Trimethylpentane

Concen: 0.128 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.01 min

Lab File: VL036825.D

Acq: 20 Apr 2021 17:17

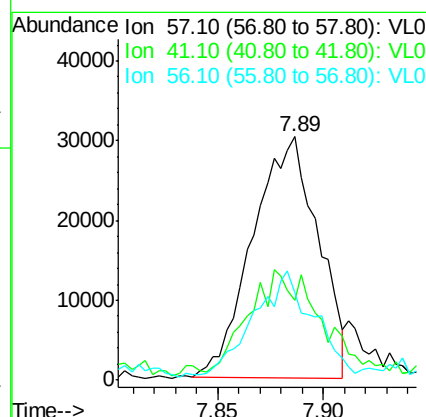
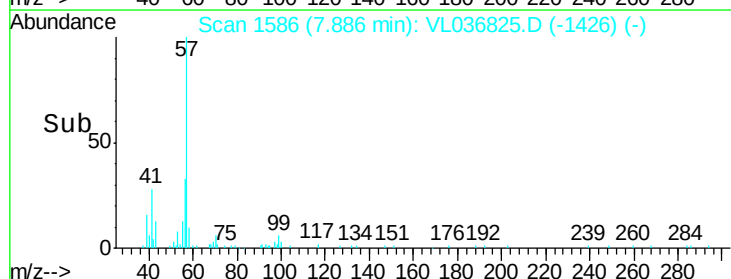
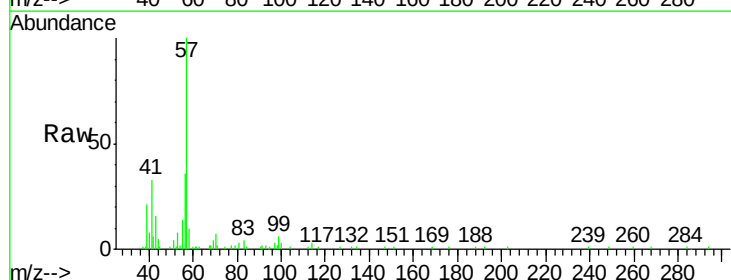
Tgt Ion: 57 Resp: 65273

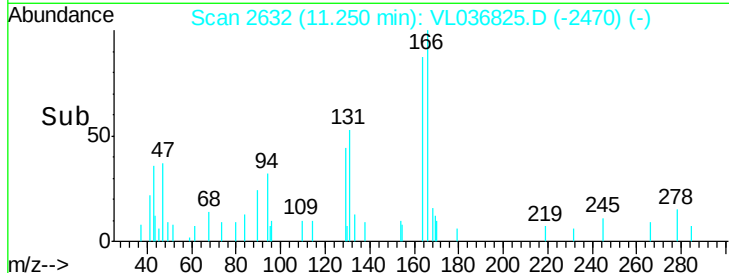
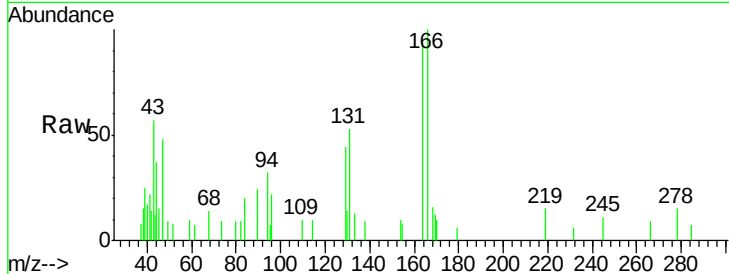
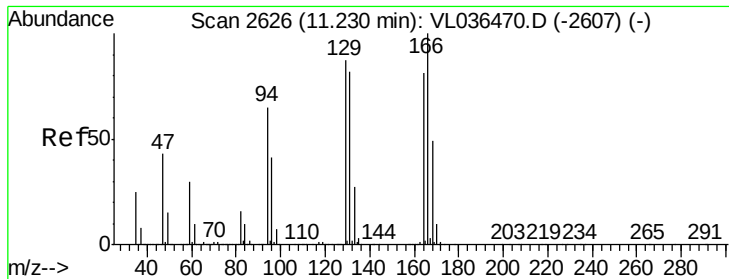
Ion Ratio Lower Upper

57 100

41 51.5 28.8 43.2#

56 49.5 26.1 39.1#





#52

Tetrachloroethene

Concen: 0.044 ppbv m

RT: 11.25

Delta R.T. MSVOA_L

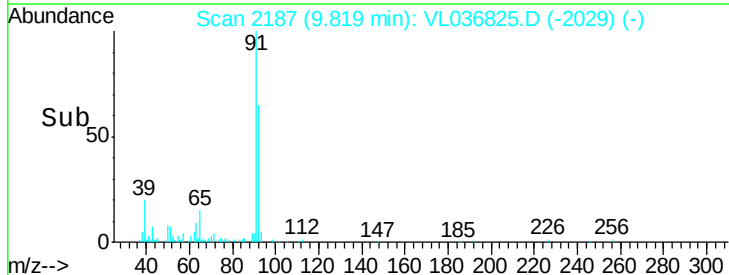
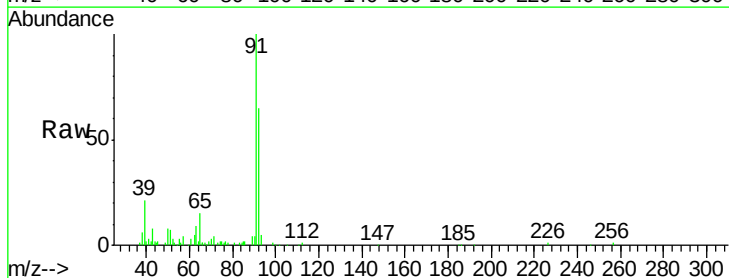
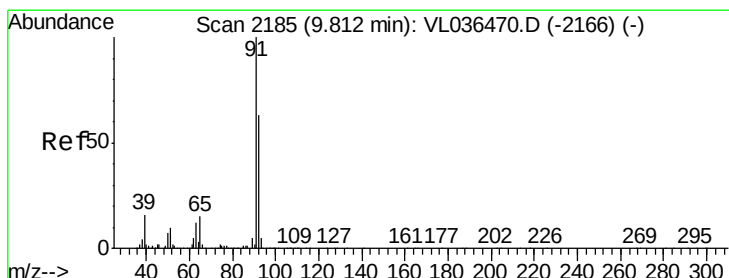
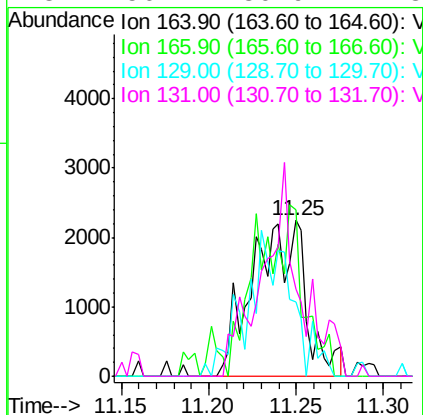
Lab File:

Acq: 20 Apr 2021 17:17

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Supervised By :Mahesh Dadoda 04/21/2021

Tot Ion:1
Ion Ratio
164 100
166 106.
129 47.
131 56.2 80.9 121.3#



#53

Toluene

Concen: 0.449 ppbv

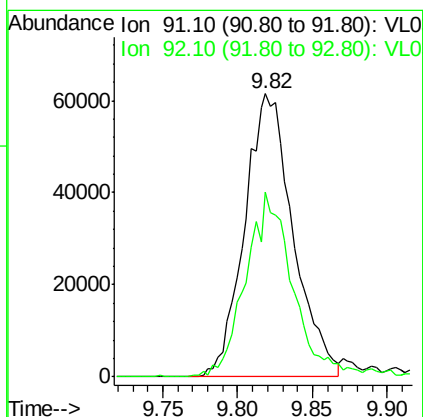
RT: 9.82 min Scan# 2187

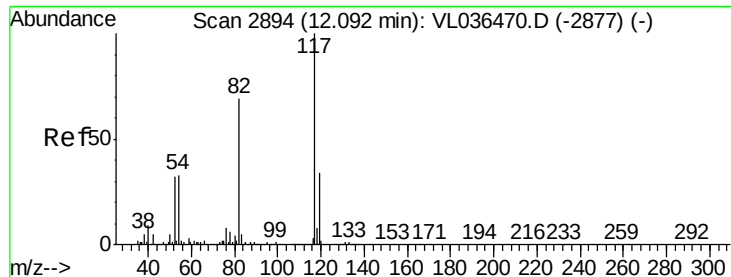
Delta R.T. 0.01 min

Lab File: VL036825.D

Acq: 20 Apr 2021 17:17

Tgt Ion: 91 Resp: 138568
Ion Ratio Lower Upper
91 100
92 65.0 48.8 73.2



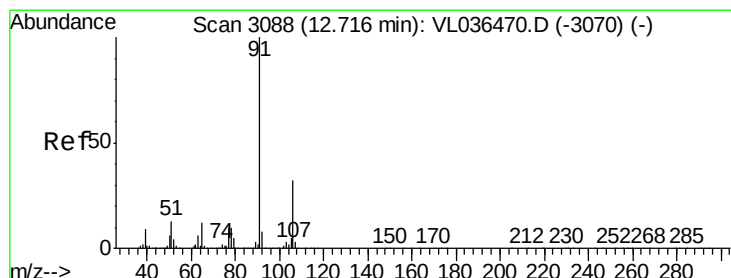
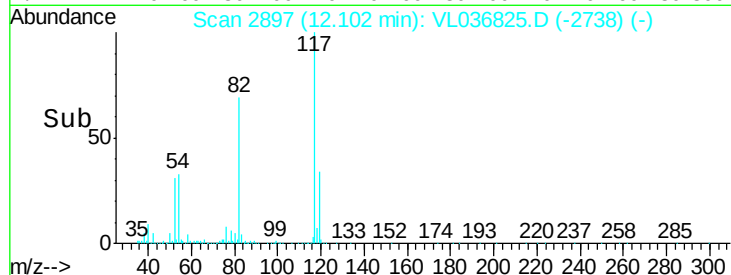
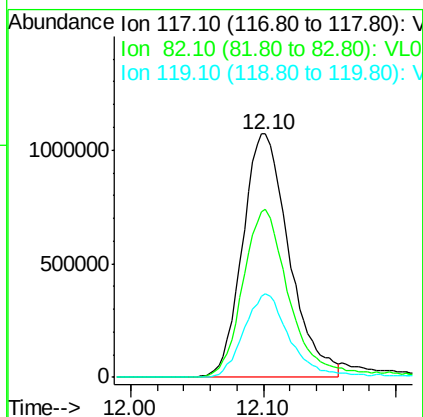
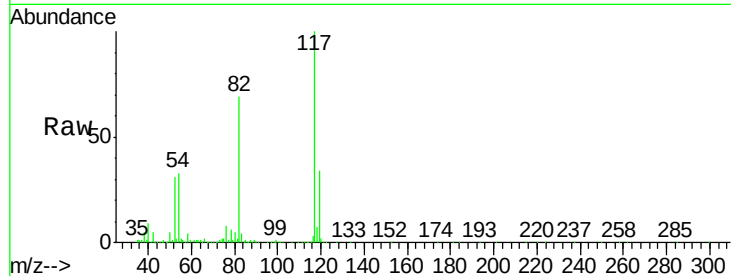


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 20 Apr 2021 17:17

Tot Ion: 1
Ion Ratio
117 100
82 72.
119 35.

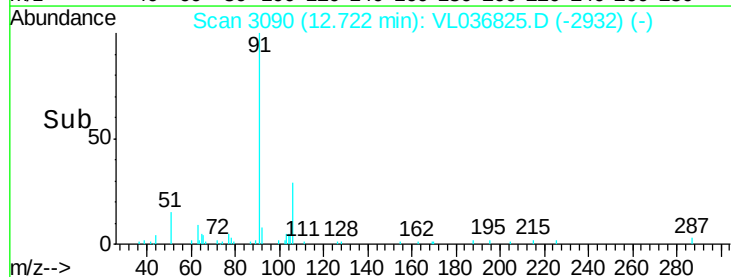
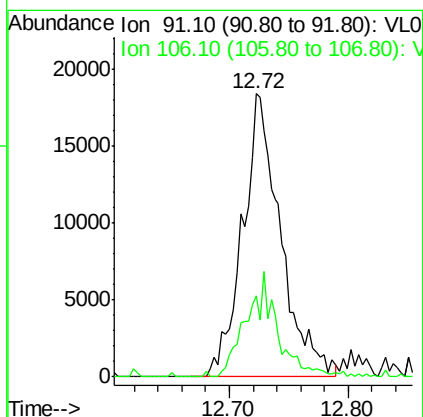
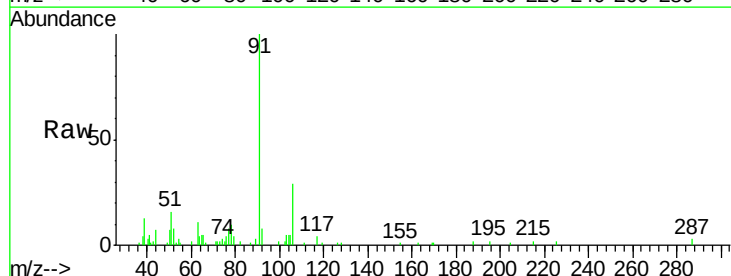
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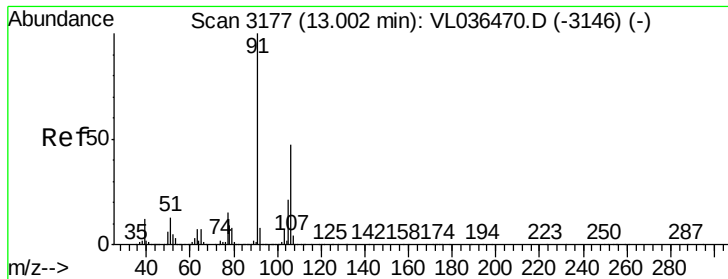
Reviewed By : Semsettin Yesilyurt 04/21/2021
Supervised By : Mahesh Dadoda 04/21/2021



#58
Ethyl Benzene
Concen: 0.109 ppbv m
RT: 12.72 min Scan# 3090
Delta R.T.: 0.01 min
Lab File: VL036825.D
Acq: 20 Apr 2021 17:17

Tgt Ion: 91 Resp: 41481
Ion Ratio Lower Upper
91 100
106 28.8 25.3 37.9



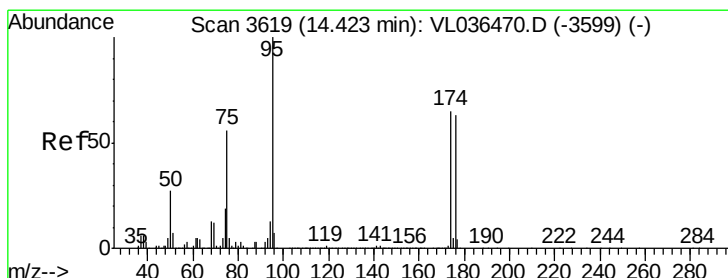
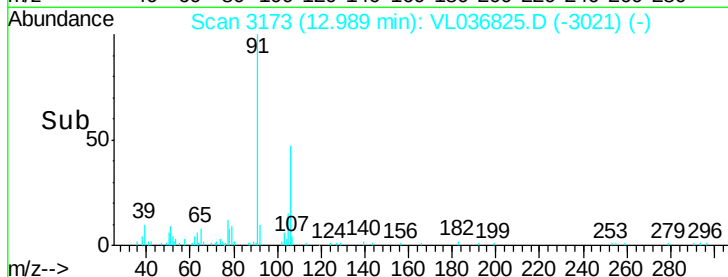
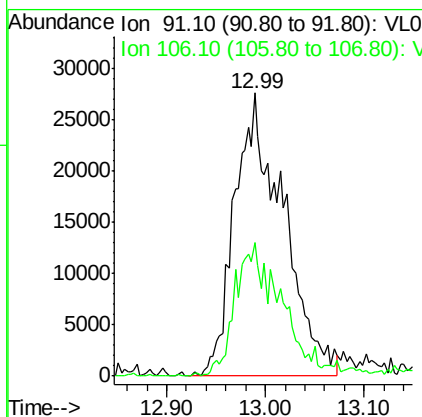
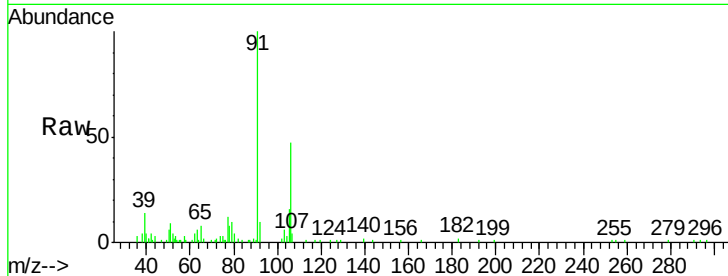


#59
m/p-Xylene
Concen: 0.284 ppbv m
RT: 12.99
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Apr 2021 17:17

Tot Ion:
Ion Ratio
91 100
106 0.

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Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#68
1-Bromo-4-Fluorobenzene
Concen: 9.259 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. 0.01 min
Lab File: VL036825.D
Acq: 20 Apr 2021 17:17

Tgt Ion: 95 Resp: 1923733
Ion Ratio Lower Upper
95 100
174 68.9 51.0 76.6
175 4.8 3.9 5.9

