

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042021\
 Data File : VL036828.D
 Acq On : 20 Apr 2021 19:16
 Operator : SY/AP
 Sample : M2096-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

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

Quant Time: Apr 21 12:39:04 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	1352393	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3262331	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2804621	10.00	ppbv	0.00

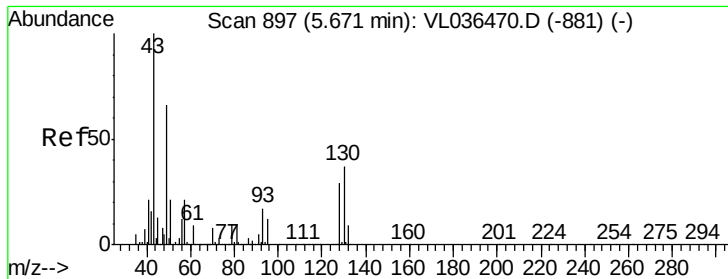
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2129828	9.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	54894	0.249	ppbv #	84
3) Chlorodifluoromethane	2.99	51	101546	0.402	ppbv	95
4) Chloromethane	3.15	50	48724m	0.546	ppbv	
9) Propene	3.02	41	191930	2.383	ppbv #	82
10) Heptane	8.13	43	45329m	0.221	ppbv	
11) Trichlorofluoromethane	3.96	101	45838	0.204	ppbv	98
13) Ethanol	3.67	45	40633938	4236.039	ppbv	83
15) Acetone	3.86	43	1797560	13.505	ppbv	99
20) Methylene Chloride	4.35	84	347721	5.579	ppbv	94
25) Ethyl Acetate	5.69	43	1283270	4.055	ppbv	98
29) Chloroform	5.76	83	29945m	0.128	ppbv	
30) Cyclohexane	7.18	84	41542m	0.349	ppbv	
34) 2-Butanone	5.26	43	330220	2.074	ppbv	99
35) Carbon Tetrachloride	7.02	117	18497m	0.074	ppbv	
36) Benzene	6.91	78	138216m	0.459	ppbv	
38) Trichloroethene	7.86	130	5398m	0.046	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	100238m	0.189	ppbv	
52) Tetrachloroethene	11.23	164	4232m	0.038	ppbv	
53) Toluene	9.82	91	339723	1.060	ppbv	98
58) Ethyl Benzene	12.73	91	66083m	0.162	ppbv	
59) m/p-Xylene	12.99	91	225211m	0.633	ppbv	
60) o-Xylene	13.71	91	72989m	0.212	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	84242	0.224	ppbv #	63

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: A1

Acq: 20 Apr 2021 19:16

Tot Ion:

Ion Ratio

49 100

128 46.

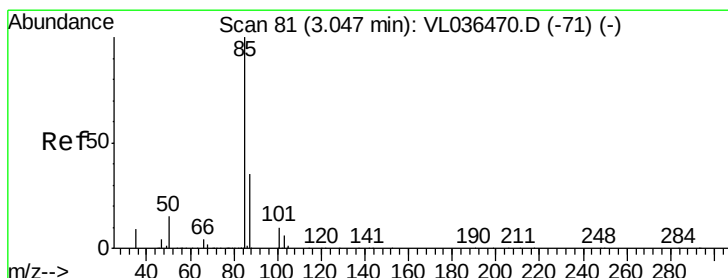
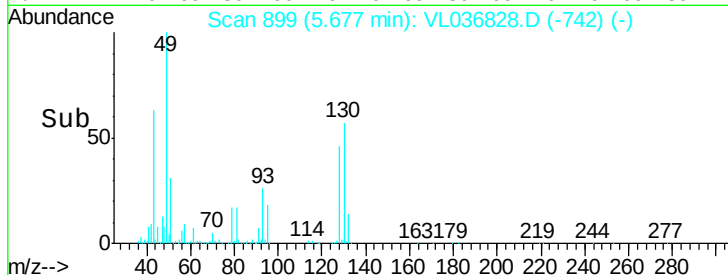
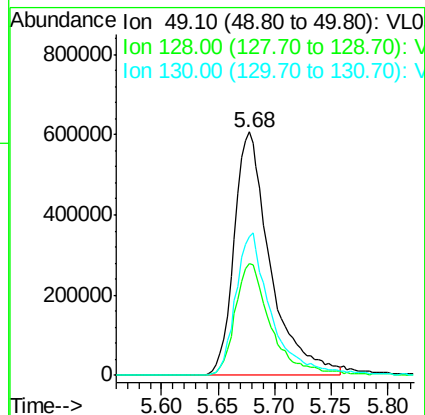
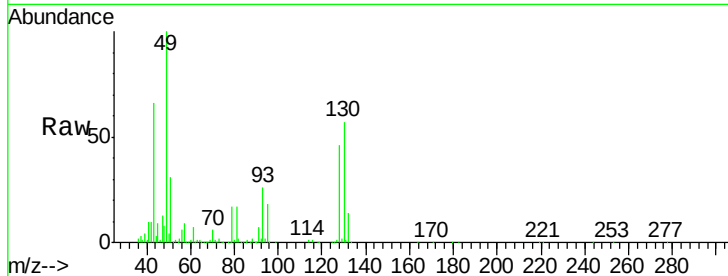
130 58.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/21/2021

Supervised By :Mahesh Dadoda 04/21/2021



#2

Dichlorodifluoromethane

Concen: 0.249 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL036828.D

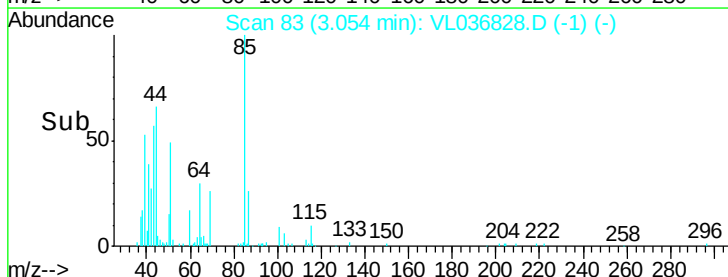
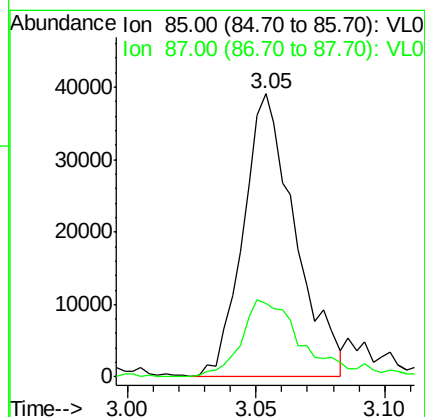
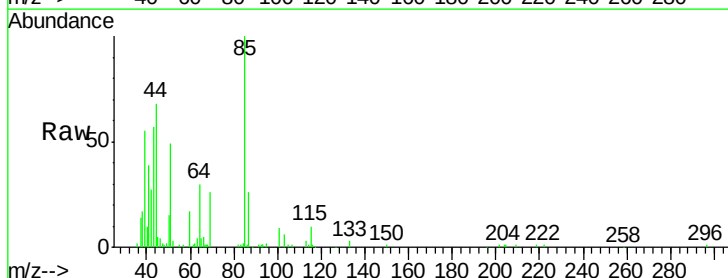
Acq: 20 Apr 2021 19:16

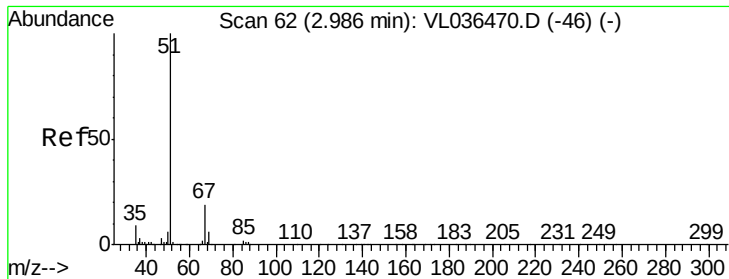
Tgt Ion: 85 Resp: 54894

Ion Ratio Lower Upper

85 100

87 25.8 27.8 41.8#





#3

Chlorodifluoromethane

Concen: 0.402 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 19:10

Tot Ion:

Ion Ratio

51 100

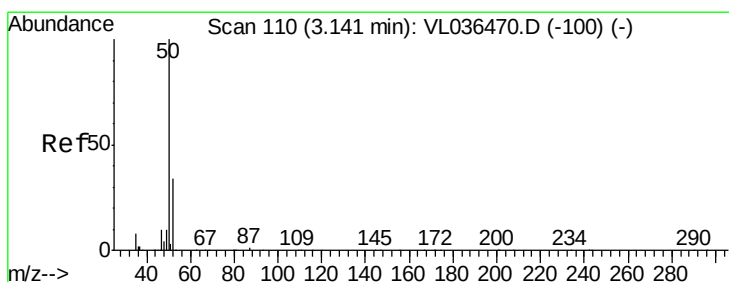
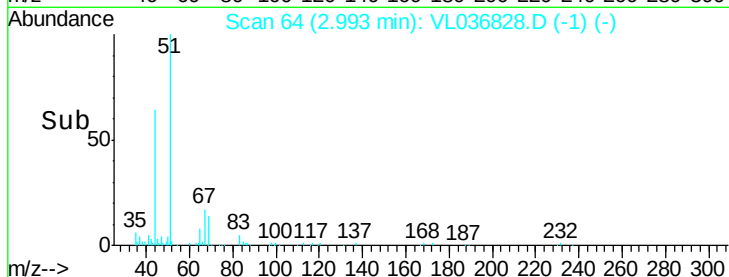
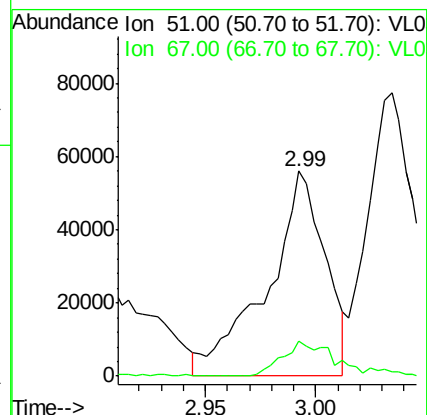
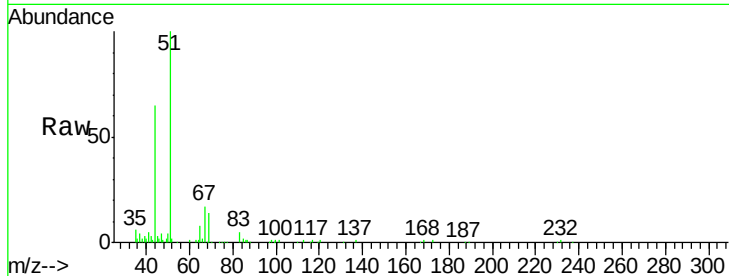
67 16.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/21/2021

Supervised By :Mahesh Dadoda 04/21/2021



#4

Chloromethane

Concen: 0.546 ppbv m

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL036828.D

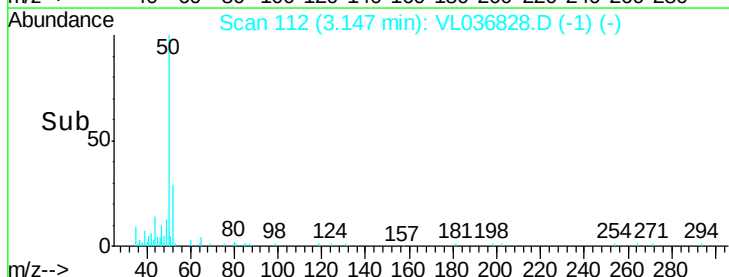
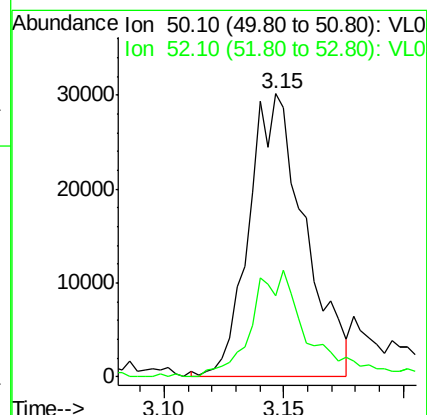
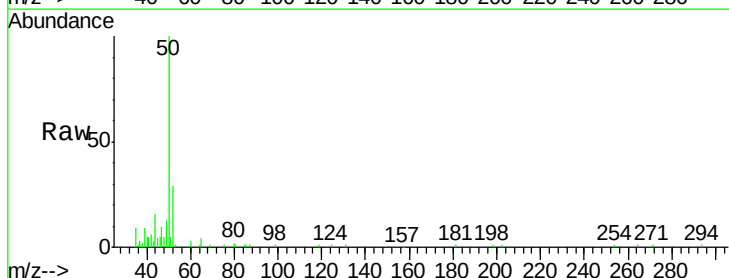
Acq: 20 Apr 2021 19:16

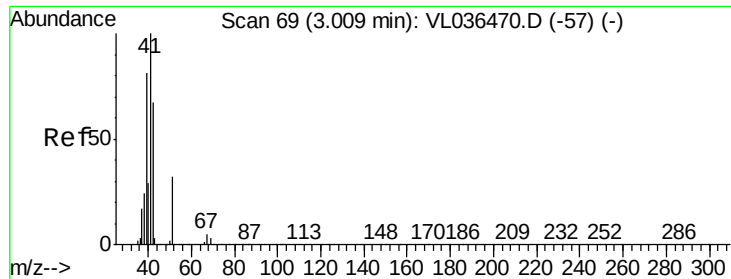
Tgt Ion: 50 Resp: 48724

Ion Ratio Lower Upper

50 100

52 28.6 27.0 40.6





#9

Propene

Concen: 2.383 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 19:16

Tot Ion:

Ion Ratio

41 100

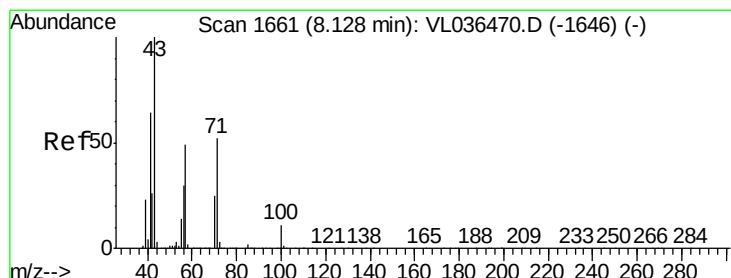
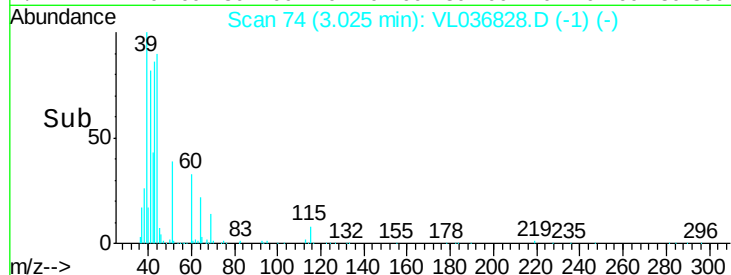
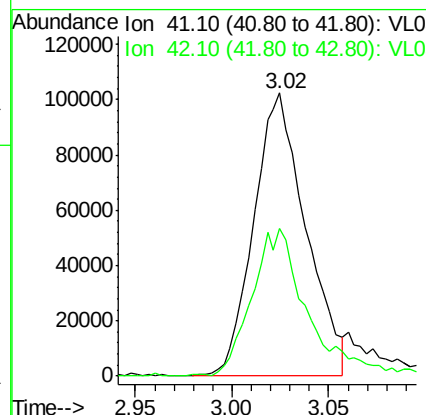
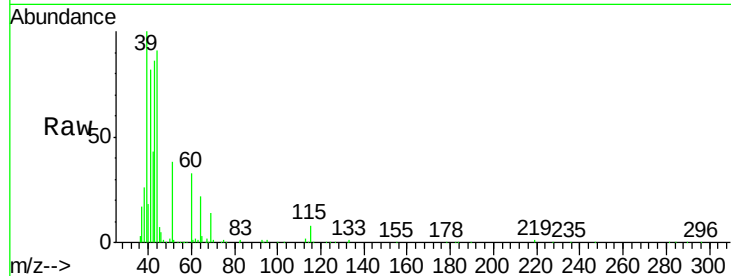
42 56.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/21/2021

Supervised By :Mahesh Dadoda 04/21/2021



#10

Heptane

Concen: 0.221 ppbv m

RT: 8.13 min Scan# 1663

Delta R.T. 0.01 min

Lab File: VL036828.D

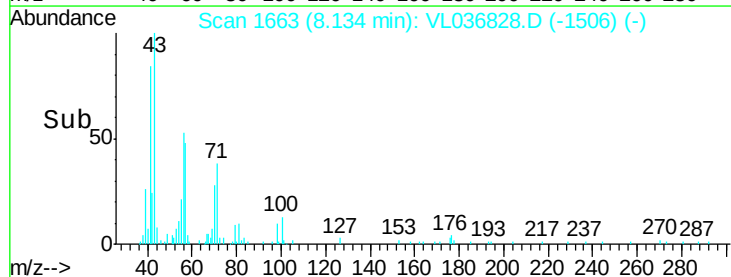
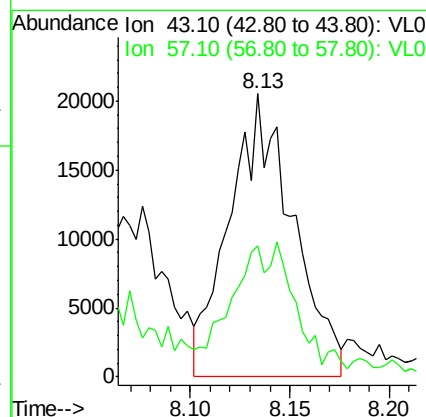
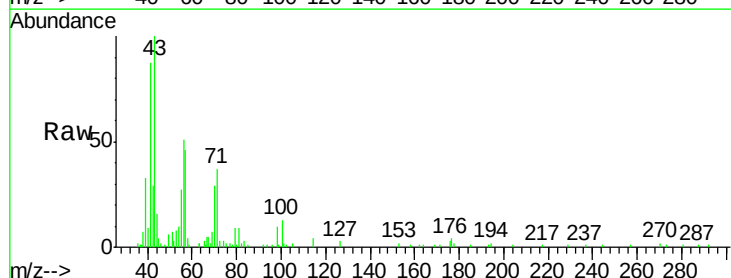
Acq: 20 Apr 2021 19:16

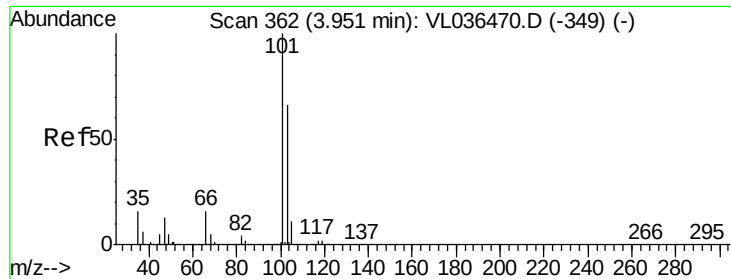
Tgt Ion: 43 Resp: 45329

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.6#



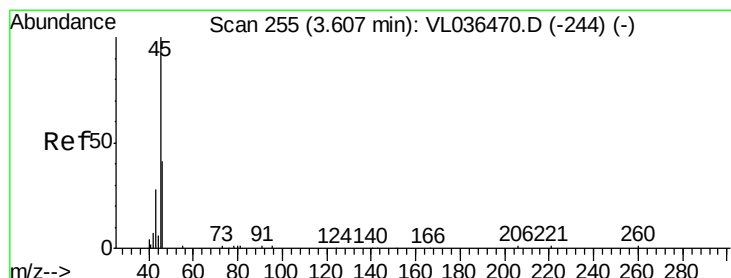
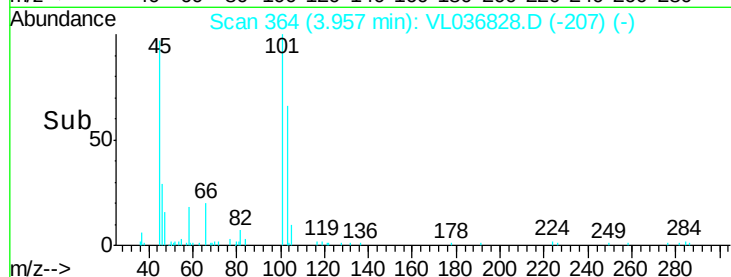
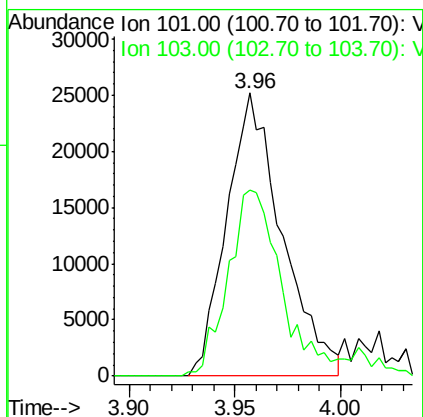
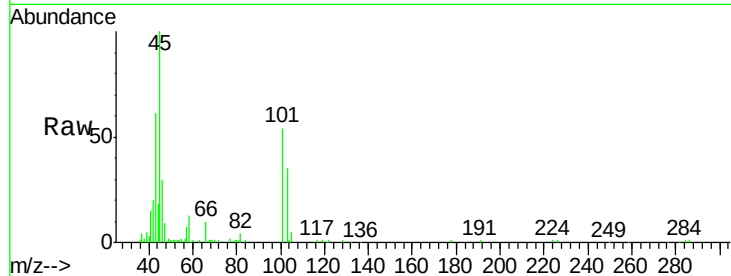


#11
Trichlorofluoromethane
Concen: 0.204 ppbv
RT: 3.96
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 20 Apr 2021 19:16

Tot Ion:1
Ion Rati
101 100
103 64.

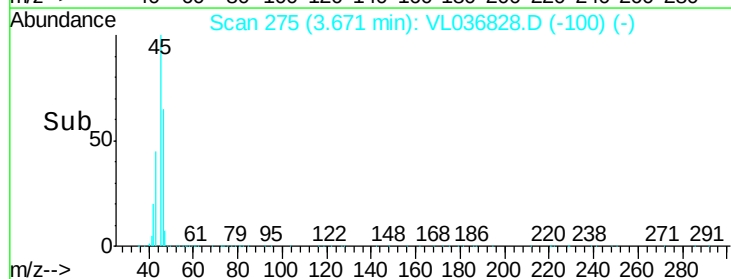
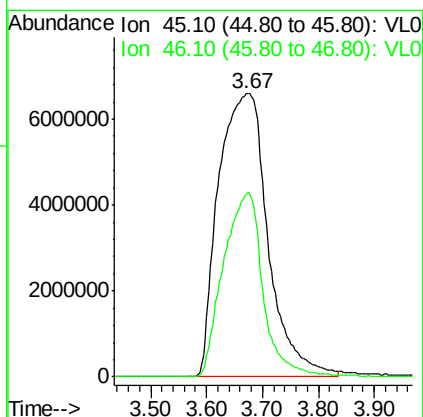
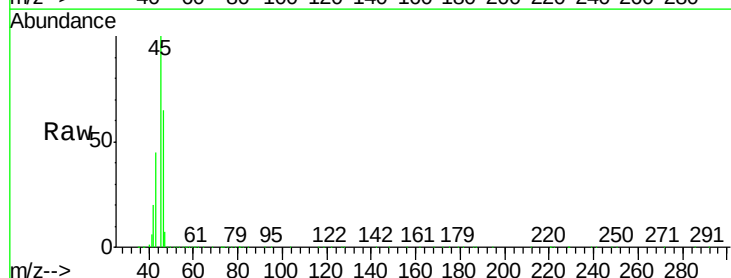
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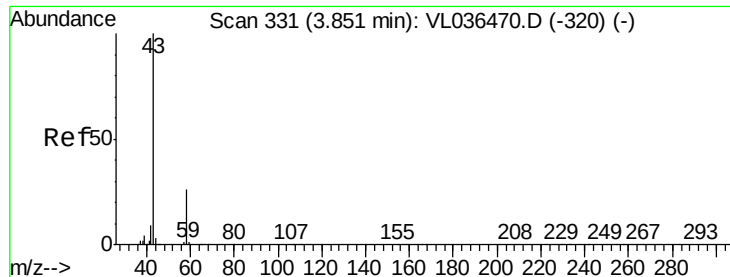
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#13
Ethanol
Concen: 4236.039 ppbv
RT: 3.67 min Scan# 275
Delta R.T. 0.06 min
Lab File: VL036828.D
Acq: 20 Apr 2021 19:16

Tgt Ion: 45 Resp:40633938
Ion Ratio Lower Upper
45 100
46 52.1 16.6 66.2



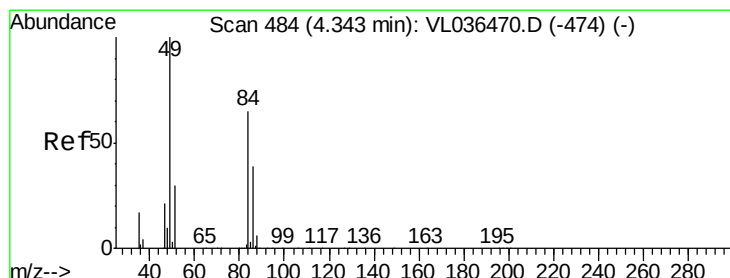
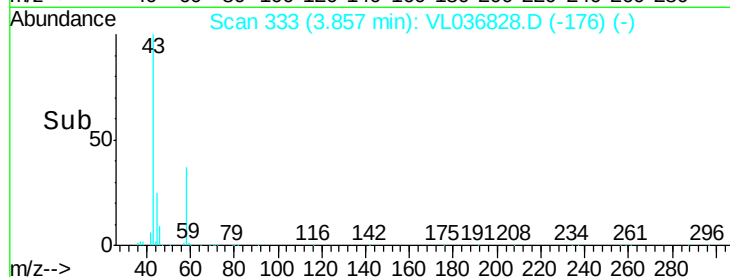
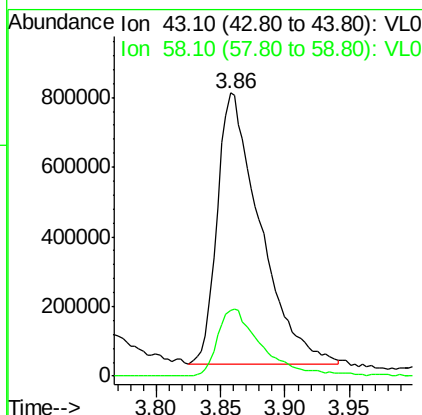
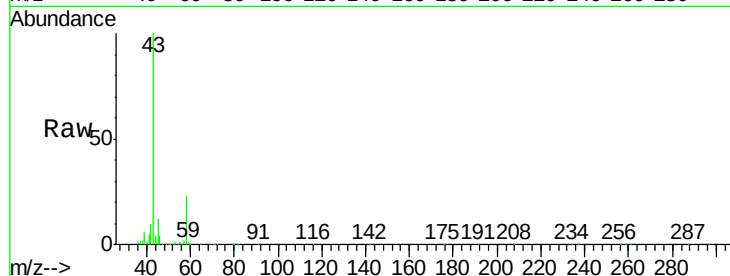


#15
Acetone
Concen: 13.505 ppbv
RT: 3.86
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Apr 2021 19:16

Tot Ion:
Ion Ratio
43 100
58 26.

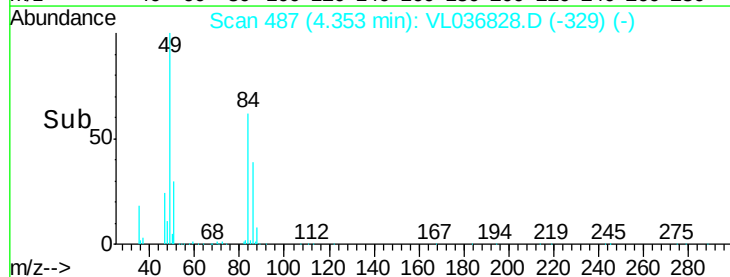
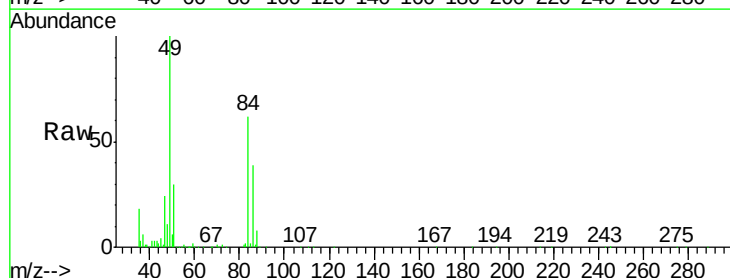
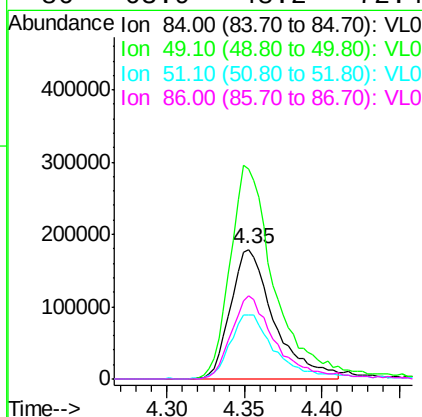
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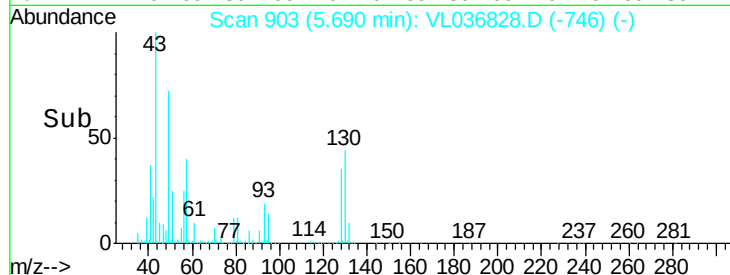
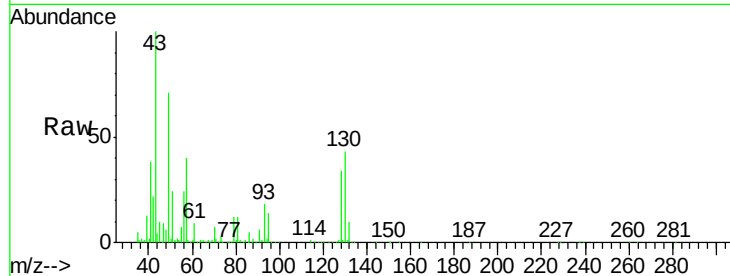
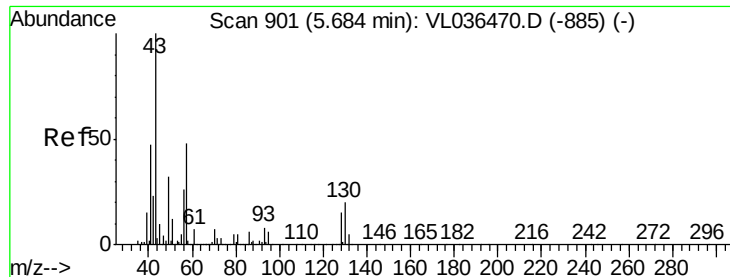
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#20
Methylene Chloride
Concen: 5.579 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.01 min
Lab File: VL036828.D
Acq: 20 Apr 2021 19:16

Tgt Ion: 84 Resp: 347721
Ion Ratio Lower Upper
84 100
49 161.9 122.9 184.3
51 48.9 36.9 55.3
86 63.9 48.2 72.4



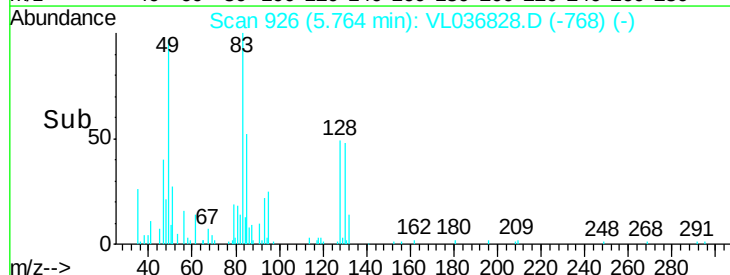
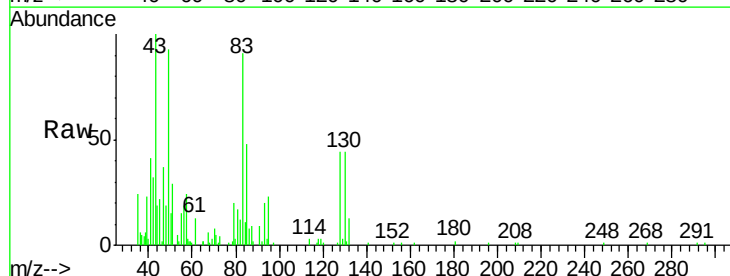
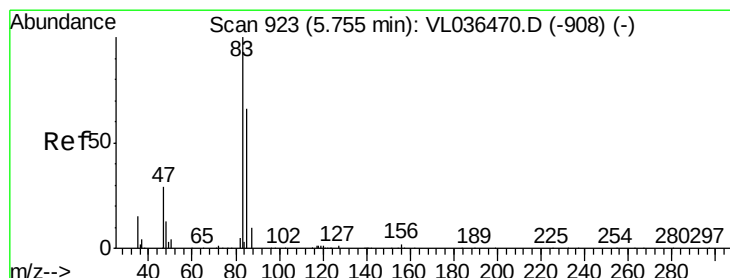
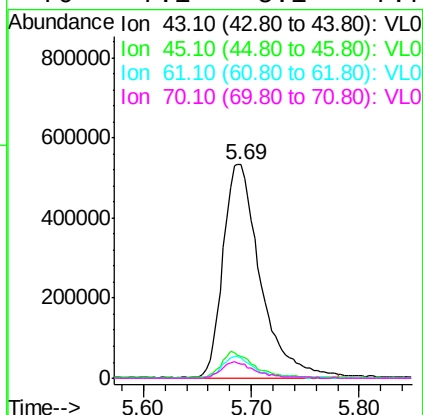


#25
Ethyl Acetate
Concen: 4.055 ppbv
RT: 5.69
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 20 Apr 2021 19:16

Tot Ion:
Ion Ratio
43 100
45 11.
61 9.
70 7.1 5.1 7.7

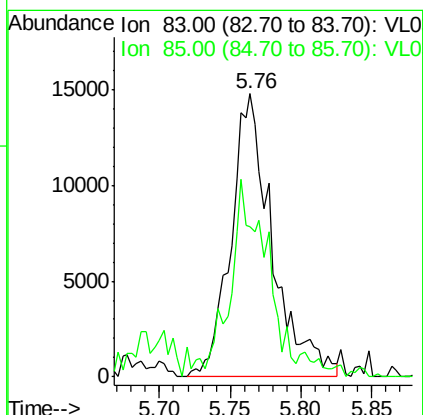
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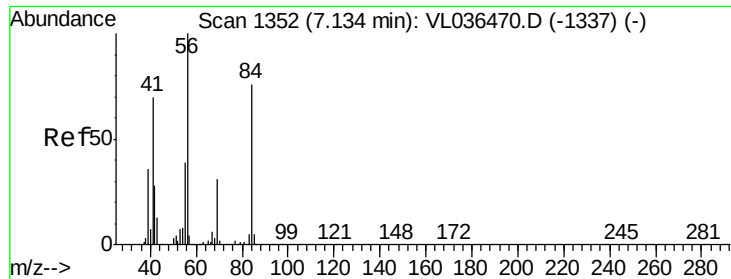
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#29
Chloroform
Concen: 0.128 ppbv m
RT: 5.76 min Scan# 926
Delta R.T. 0.01 min
Lab File: VL036828.D
Acq: 20 Apr 2021 19:16

Tgt Ion: 83 Resp: 29945
Ion Ratio Lower Upper
83 100
85 53.3 52.6 78.8



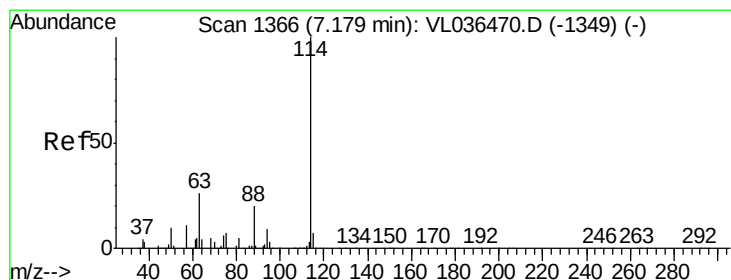
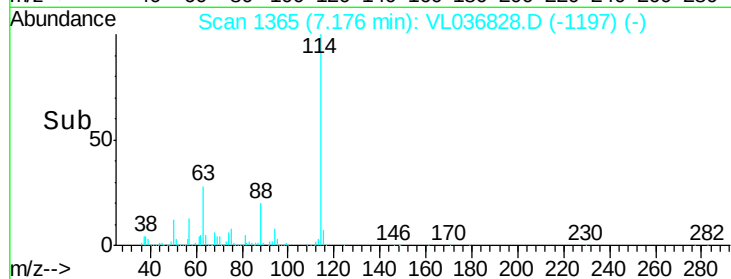
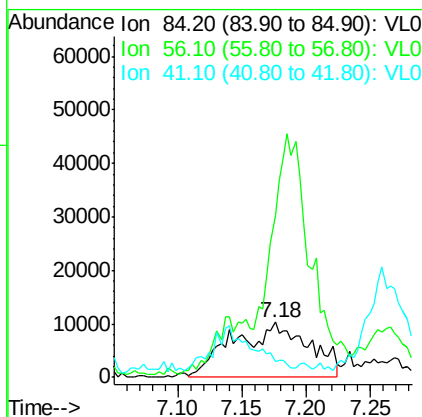
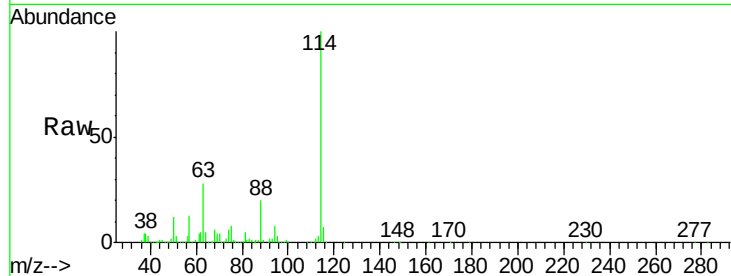


#30
Cvclohexane
Concen: 0.349 ppbv m
RT: 7.18
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 20 Apr 2021 19:16

Tot Ion:
Ion Ratio
84 100
56 0.
41 63.

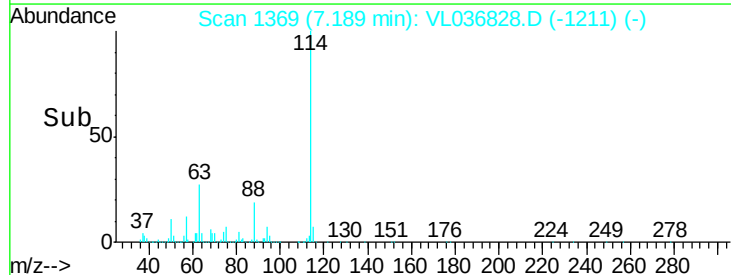
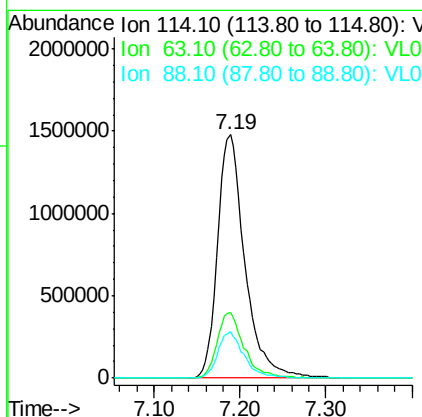
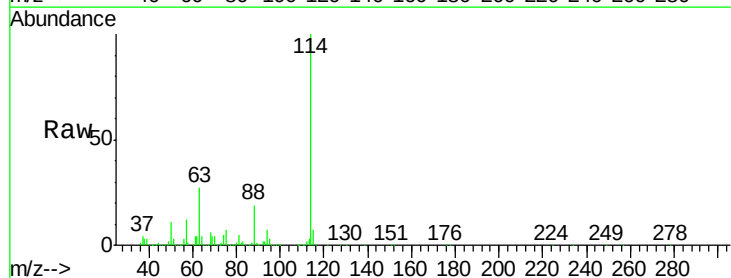
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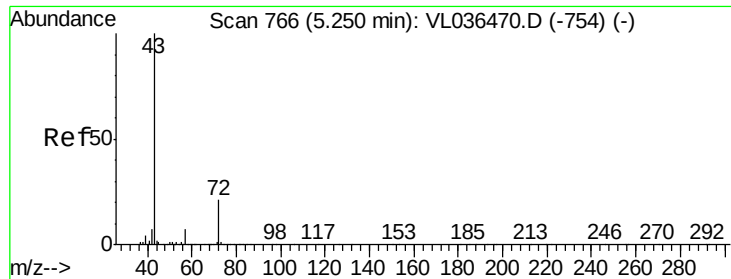
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VL036828.D
Acq: 20 Apr 2021 19:16

Tgt Ion:114 Resp: 3262331
Ion Ratio Lower Upper
114 100
63 26.9 22.4 33.6
88 18.3 15.4 23.0



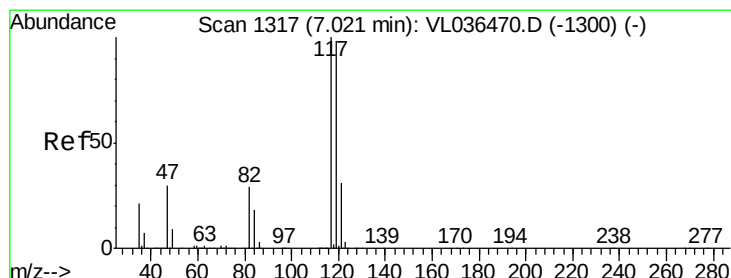
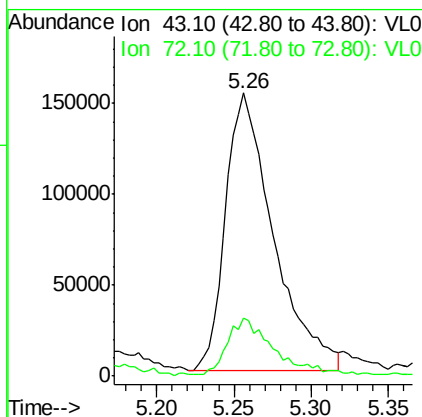
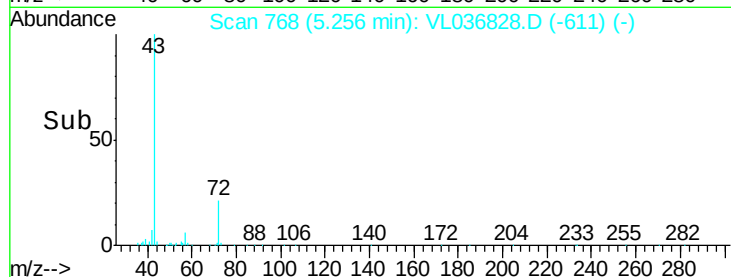
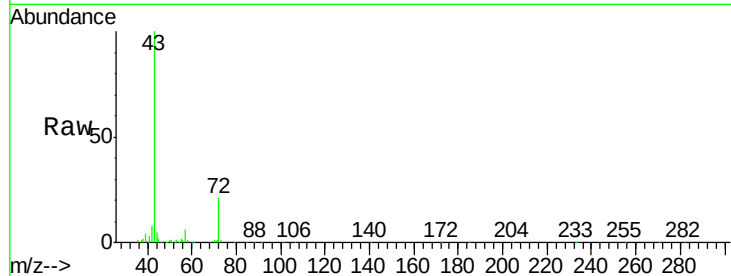


#34
2-Butanone
Concen: 2.074 ppbv
RT: 5.26
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Apr 2021 19:16

Tot Ion:
Ion Ratio
43 100
72 21.

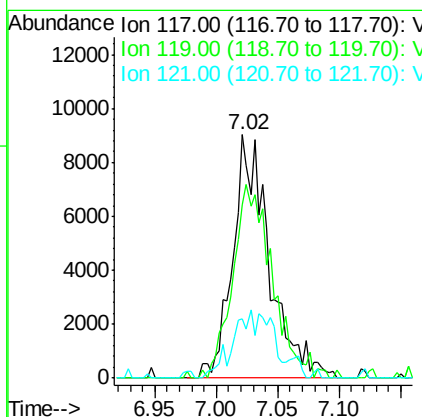
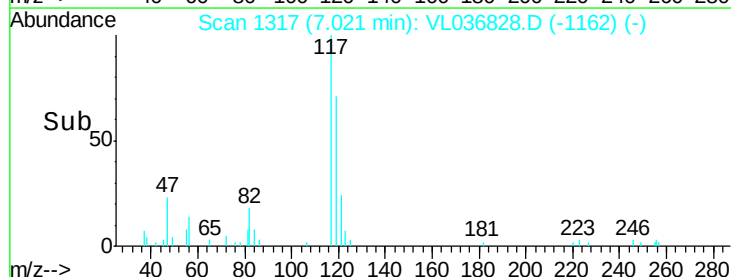
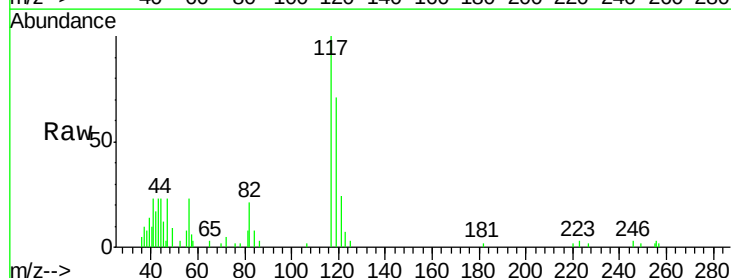
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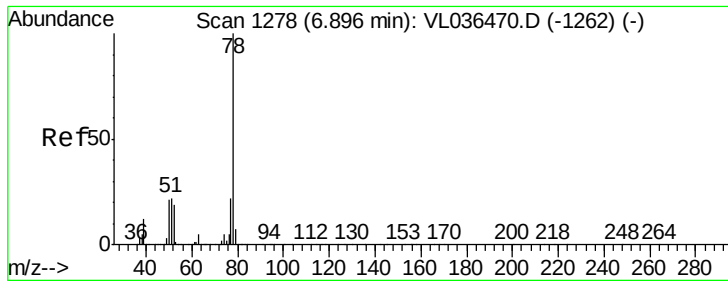
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 7.02 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VL036828.D
Acq: 20 Apr 2021 19:16

Tgt Ion:117 Resp: 18497
Ion Ratio Lower Upper
117 100
119 70.9 78.2 117.2#
121 24.4 24.5 36.7#





#36

Benzene

Concen: 0.459 ppbv m

RT: 6.91 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 19:16

Tot Ion:

Ion Ratio

78 100

77 24.

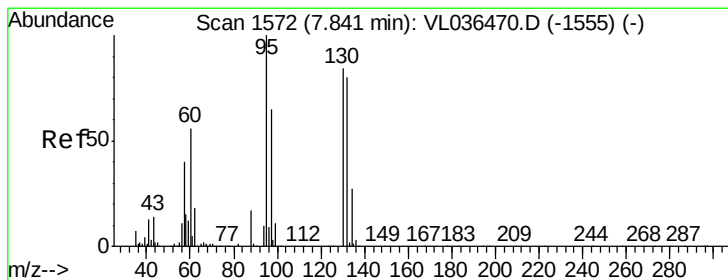
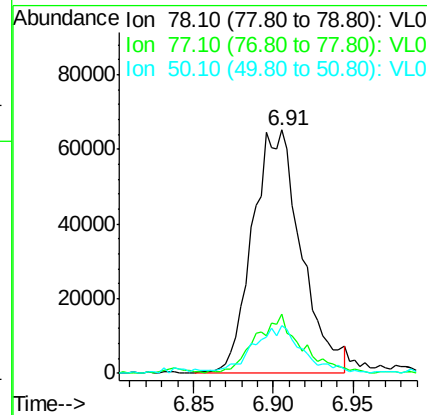
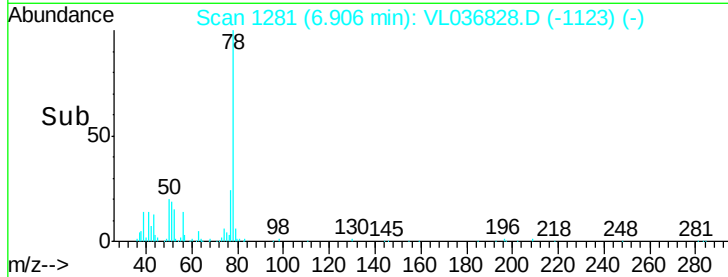
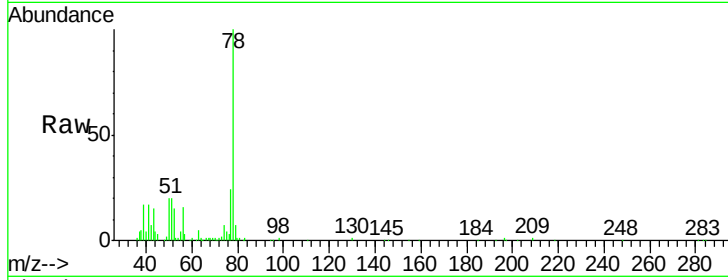
50 19.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/21/2021

Supervised By :Mahesh Dadoda 04/21/2021



#38

Trichloroethene

Concen: 0.046 ppbv m

RT: 7.86 min Scan# 1577

Delta R.T. 0.02 min

Lab File: VL036828.D

Acq: 20 Apr 2021 19:16

Tgt Ion:130 Resp: 5398

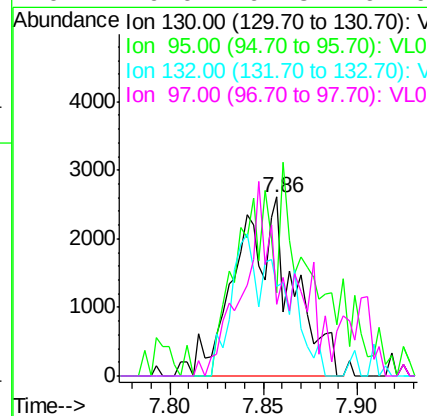
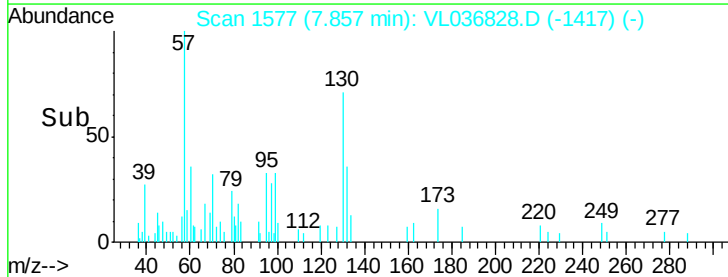
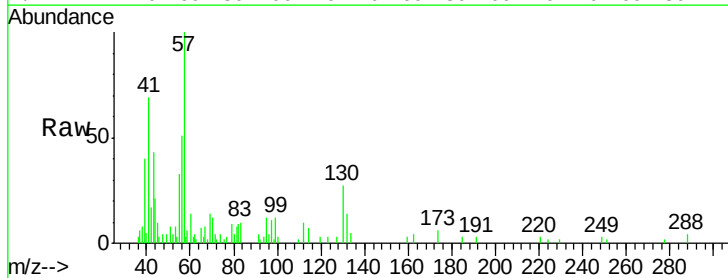
Ion Ratio Lower Upper

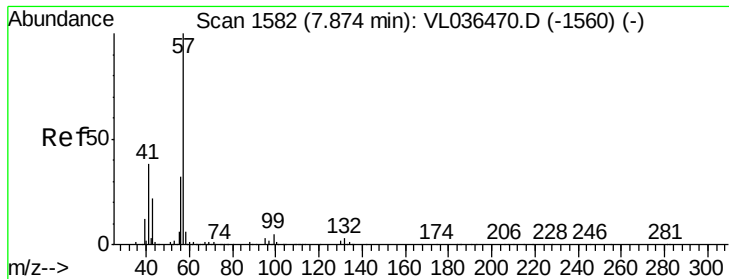
130 100

95 46.5 95.7 143.5#

132 50.4 76.2 114.4#

97 40.0 61.8 92.6#



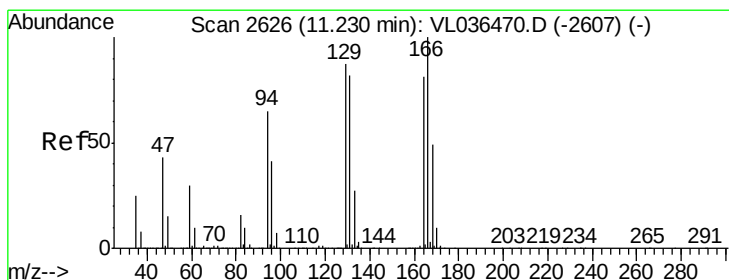
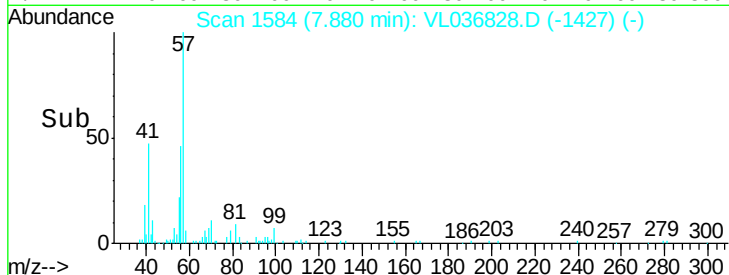
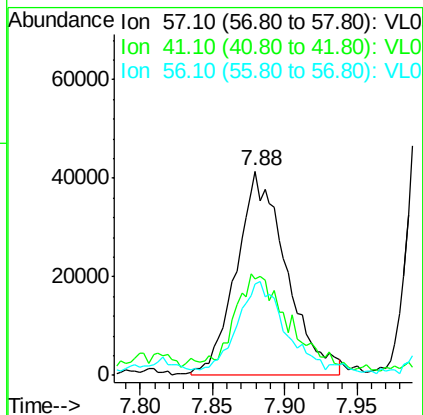
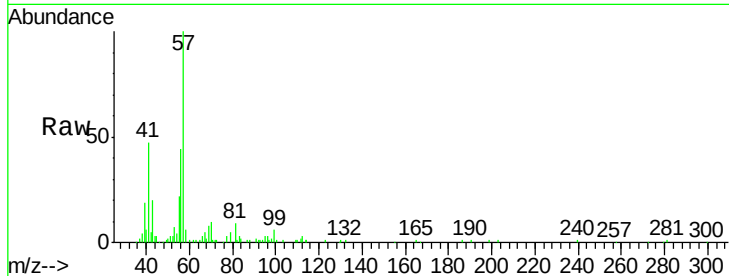


#44
 2,2,4-Trimethylpentane
 Concen: 0.189 ppbv m
 RT: 7.88
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 20 Apr 2021 19:16

Tot Ion:
 Ion Ratio
 57 100
 41 0.
 56 47.

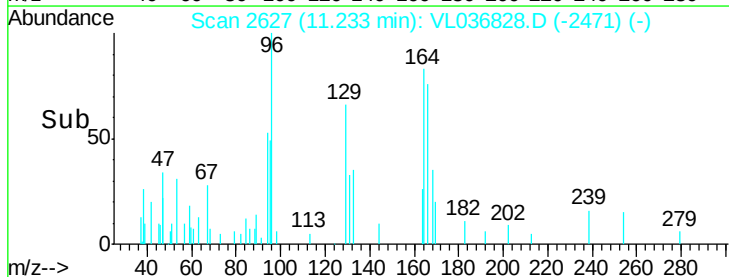
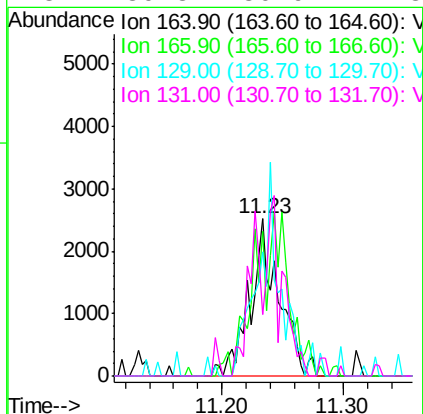
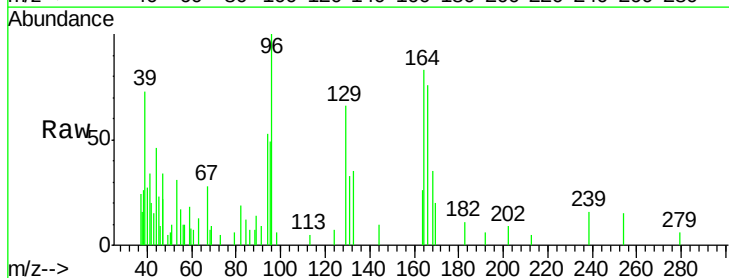
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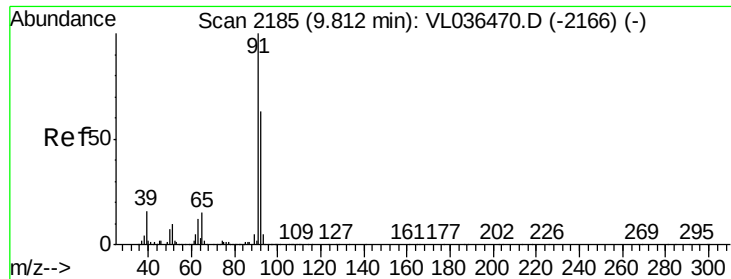
Reviewed By :Semsettin Yesilyurt 04/21/2021
 Supervised By :Mahesh Dadoda 04/21/2021



#52
 Tetrachloroethene
 Concen: 0.038 ppbv m
 RT: 11.23 min Scan# 2627
 Delta R.T. 0.00 min
 Lab File: VL036828.D
 Acq: 20 Apr 2021 19:16

Tgt Ion:164 Resp: 4232
 Ion Ratio Lower Upper
 164 100
 166 91.8 98.3 147.5#
 129 79.0 85.8 128.8#
 131 39.3 80.9 121.3#



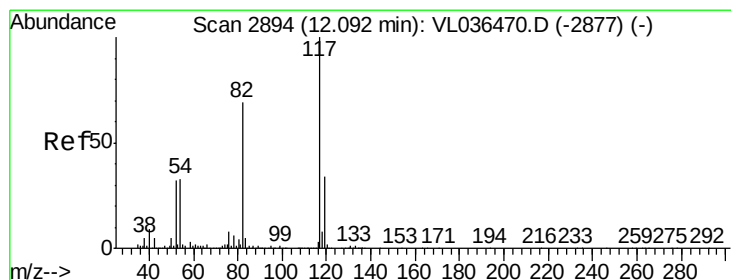
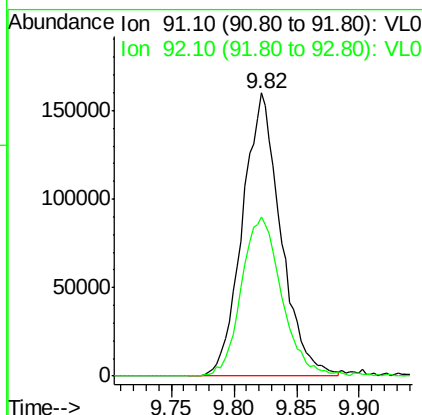
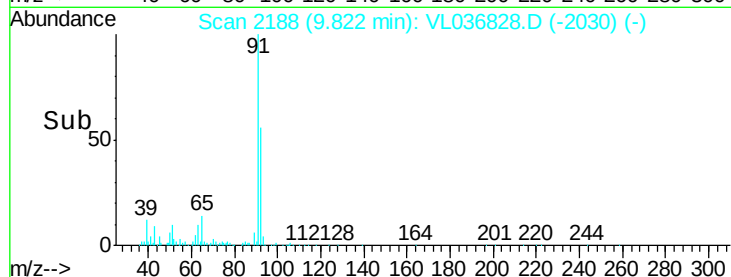
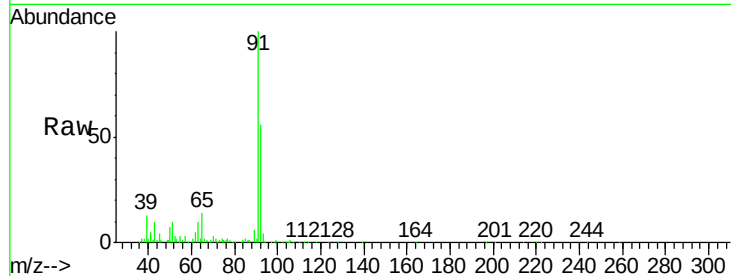


#53
Toluene
Concen: 1.060 ppbv
RT: 9.82
Instrument : MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 20 Apr 2021 19:16

Tot Ion:
Ion Ratio
91 100
92 59.

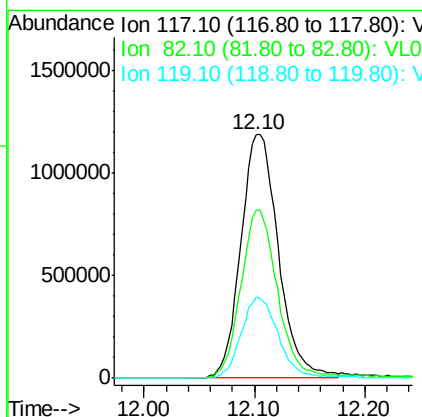
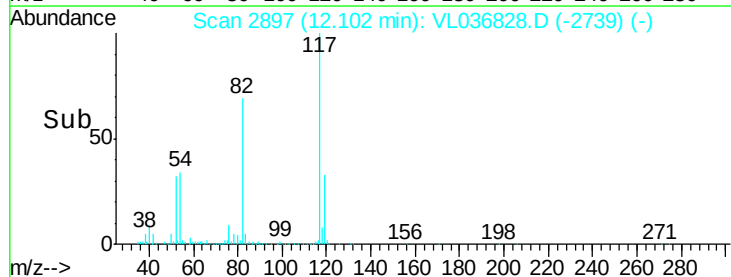
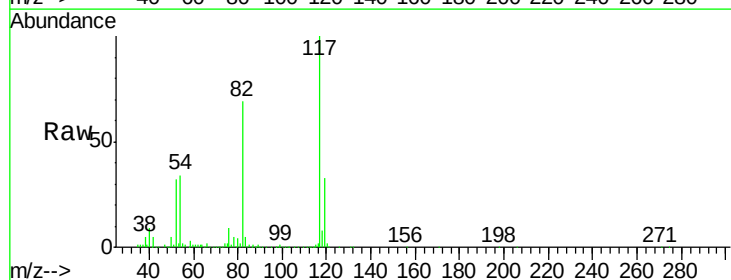
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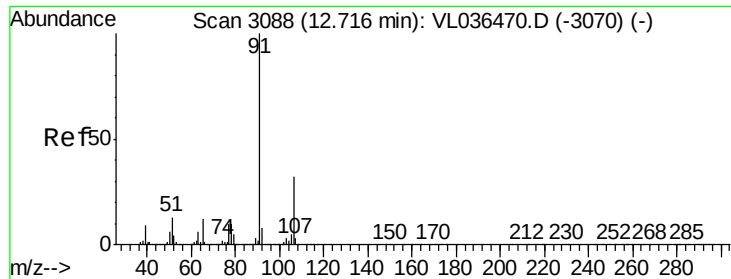
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. 0.01 min
Lab File: VL036828.D
Acq: 20 Apr 2021 19:16

Tgt Ion:117 Resp: 2804621
Ion Ratio Lower Upper
117 100
82 68.9 57.4 86.0
119 33.2 47.4 71.0#





#58

Ethyl Benzene

Concen: 0.162 ppbv m

RT: 12.73

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 19:16

Tot Ion:

Ion Ratio

91 100

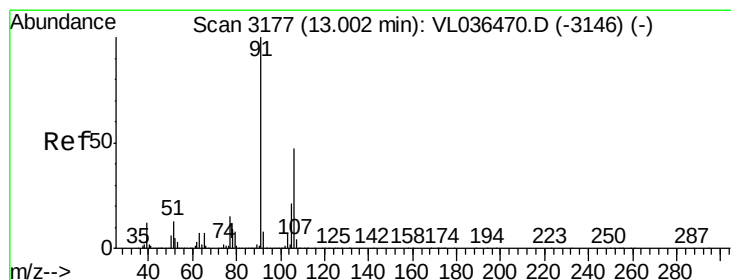
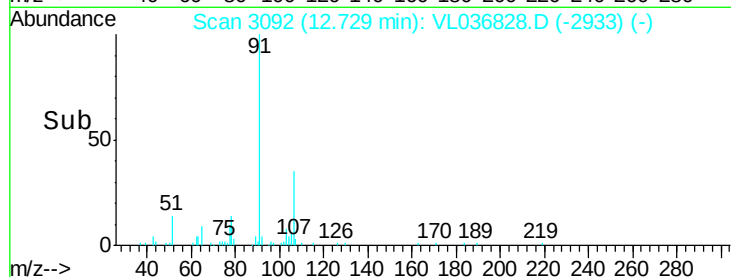
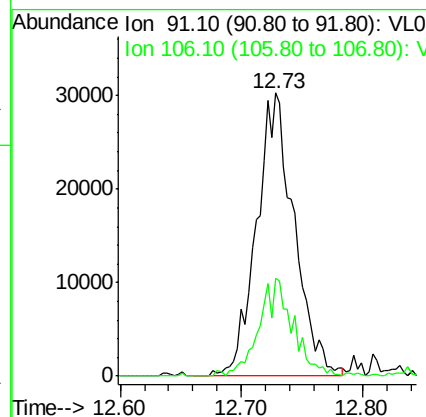
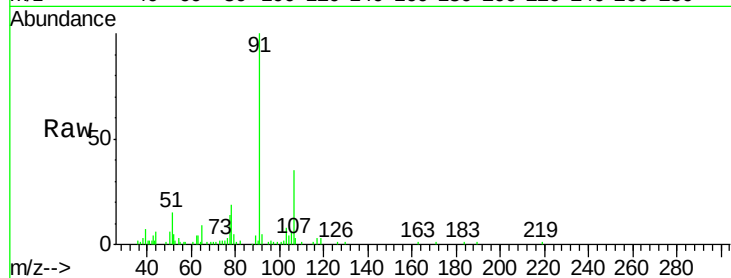
106 34.

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APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2021

Supervised By :Mahesh Dadoda 04/21/2021



#59

m/p-Xylene

Concen: 0.633 ppbv m

RT: 12.99 min Scan# 3173

Delta R.T. -0.01 min

Lab File: VL036828.D

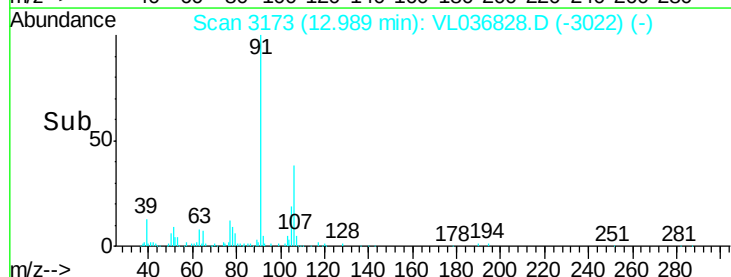
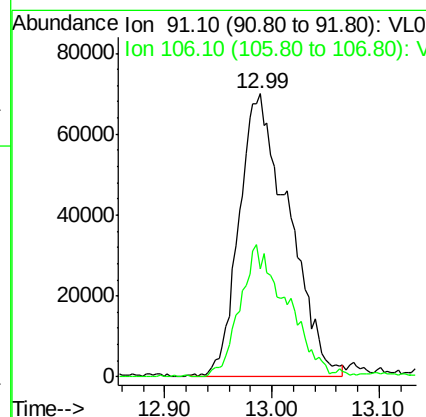
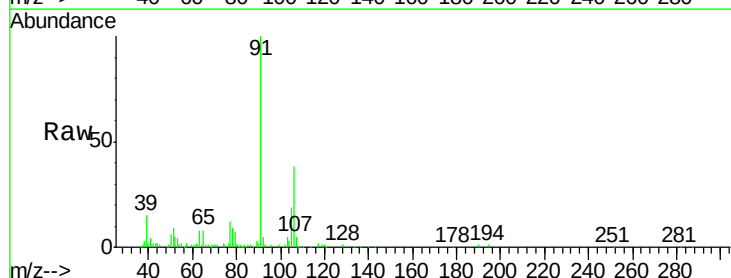
Acq: 20 Apr 2021 19:16

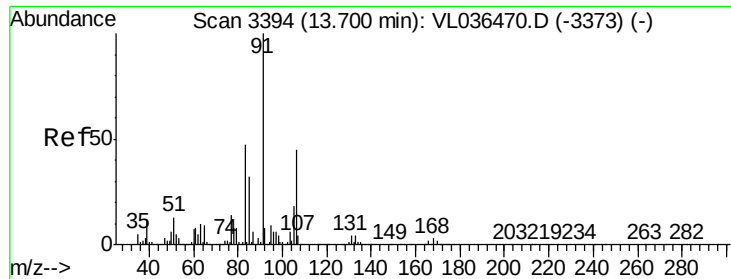
Tgt Ion: 91 Resp: 225211

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#





#60

o-Xylene

Concen: 0.212 ppbv m

RT: 13.71

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 19:16

Tot Ion:

Ion Ratio

91 100

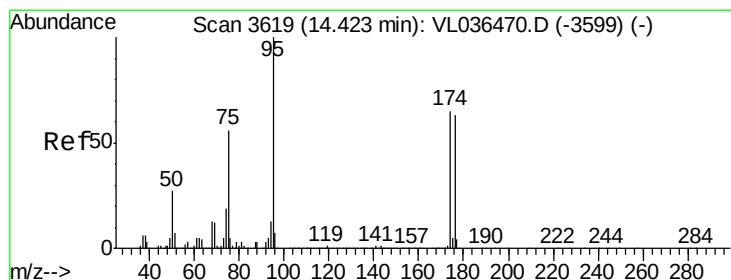
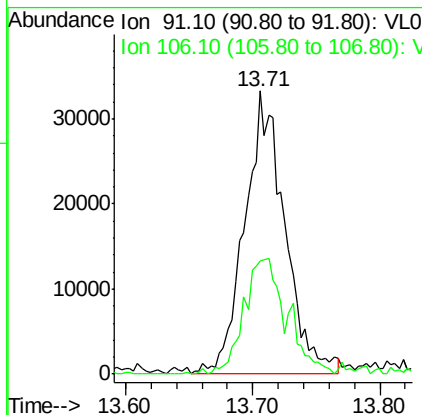
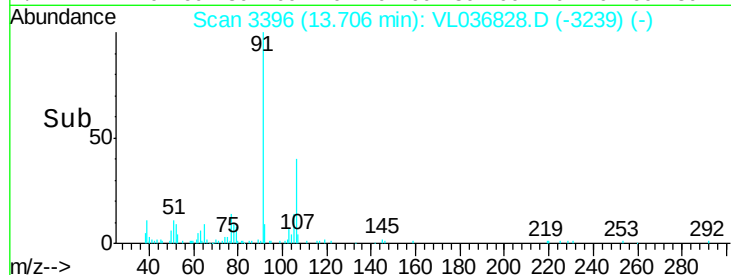
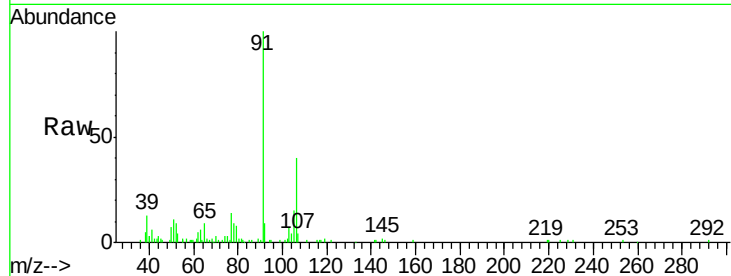
106 46.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/21/2021

Supervised By :Mahesh Dadoda 04/21/2021



#68

1-Bromo-4-Fluorobenzene

Concen: 9.528 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. 0.01 min

Lab File: VL036828.D

Acq: 20 Apr 2021 19:16

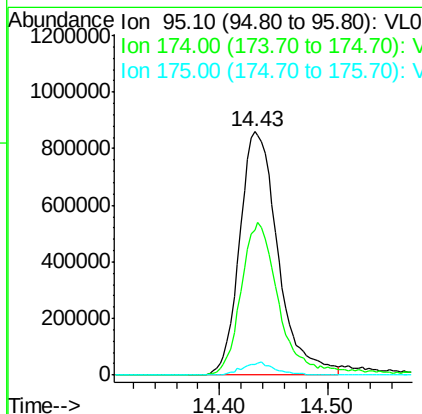
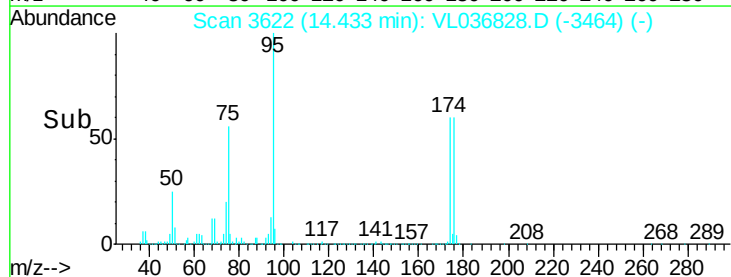
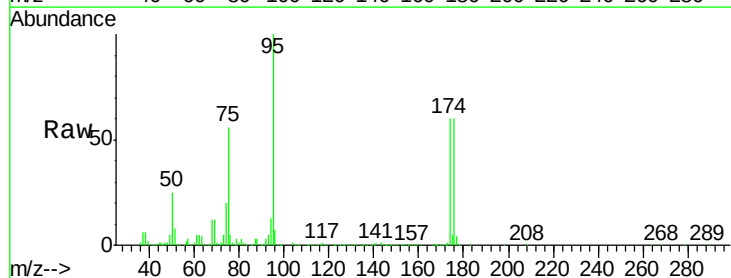
Tgt Ion: 95 Resp: 2129828

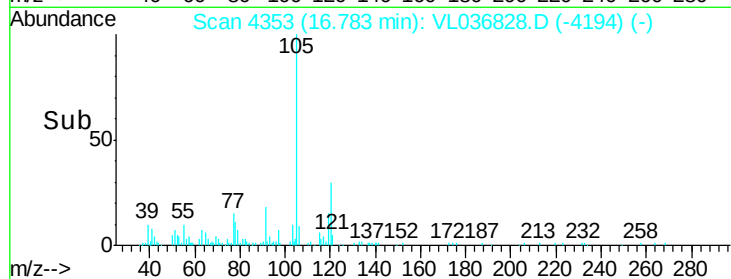
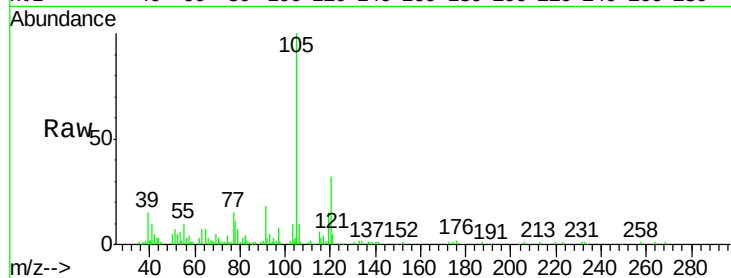
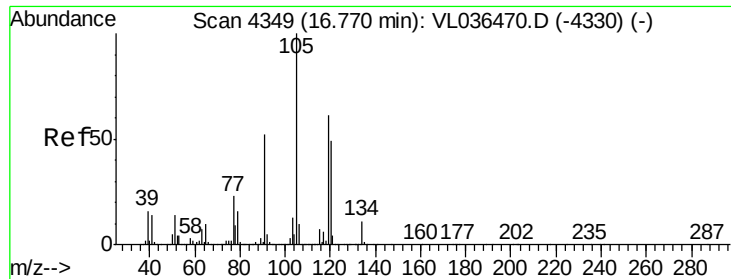
Ion Ratio Lower Upper

95 100

174 63.5 51.0 76.6

175 4.6 3.9 5.9





#74

1,2,4-Trimethylbenzene

Concen: 0.224 ppbv

RT: 16.78

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 19:10

Tot Ion:1
Ion Rati
105 100
120 31.
91 14.
77 13.1 18.6 28.0#

Manual Integrations
APPROVED

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

