

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038062.D
 Acq On : 18 Nov 2021 20:27
 Operator : SY/AP
 Sample : M4704-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 15-JOHN

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021
 Supervised By :Mahesh Dadoda 11/29/2021

Quant Time: Nov 19 08:00:16 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	913459	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2495472	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2145234	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1573775	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	28729	0.190	ppbv	100
4) Chloromethane	3.15	50	25642	0.393	ppbv	97
9) Propene	3.02	41	1929093	27.306	ppbv	96
10) Heptane	8.13	43	187661	1.075	ppbv	97
11) Trichlorofluoromethane	3.96	101	34324	0.239	ppbv	96
13) Ethanol	3.61	45	377735	55.328	ppbv	88
15) Acetone	3.85	43	13645641	172.297	ppbv #	86
17) tert-Butyl alcohol	4.31	59	95752	0.997	ppbv	97
19) Isopropyl Alcohol	3.98	45	342375m	5.983	ppbv	
20) Methylene Chloride	4.36	84	120792	2.723	ppbv	94
26) Hexane	5.69	57	354148	2.791	ppbv #	41
27) Carbon Disulfide	4.56	76	192218	1.691	ppbv #	94
29) Chloroform	5.76	83	54966	0.294	ppbv	88
30) Cyclohexane	7.14	84	54910	0.477	ppbv #	83
34) 2-Butanone	5.25	43	643477	6.395	ppbv	100
35) Carbon Tetrachloride	7.02	117	7707m	0.044	ppbv	
36) Benzene	6.90	78	405738	1.630	ppbv	99
38) Trichloroethene	7.84	130	5776m	0.062	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	383016	0.920	ppbv #	88
52) Tetrachloroethene	11.23	164	4823m	0.052	ppbv	
53) Toluene	9.81	91	1688186	5.894	ppbv	99
58) Ethyl Benzene	12.71	91	352878	0.995	ppbv	99
59) m/p-Xylene	12.97	91	875649	2.934	ppbv	98
60) o-Xylene	13.69	91	315649	1.140	ppbv	97
64) n-propylbenzene	15.56	120	19501m	0.195	ppbv	
72) 4-Ethyltoluene	15.84	105	105325m	0.328	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	66816m	0.228	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	230960	0.764	ppbv #	70

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

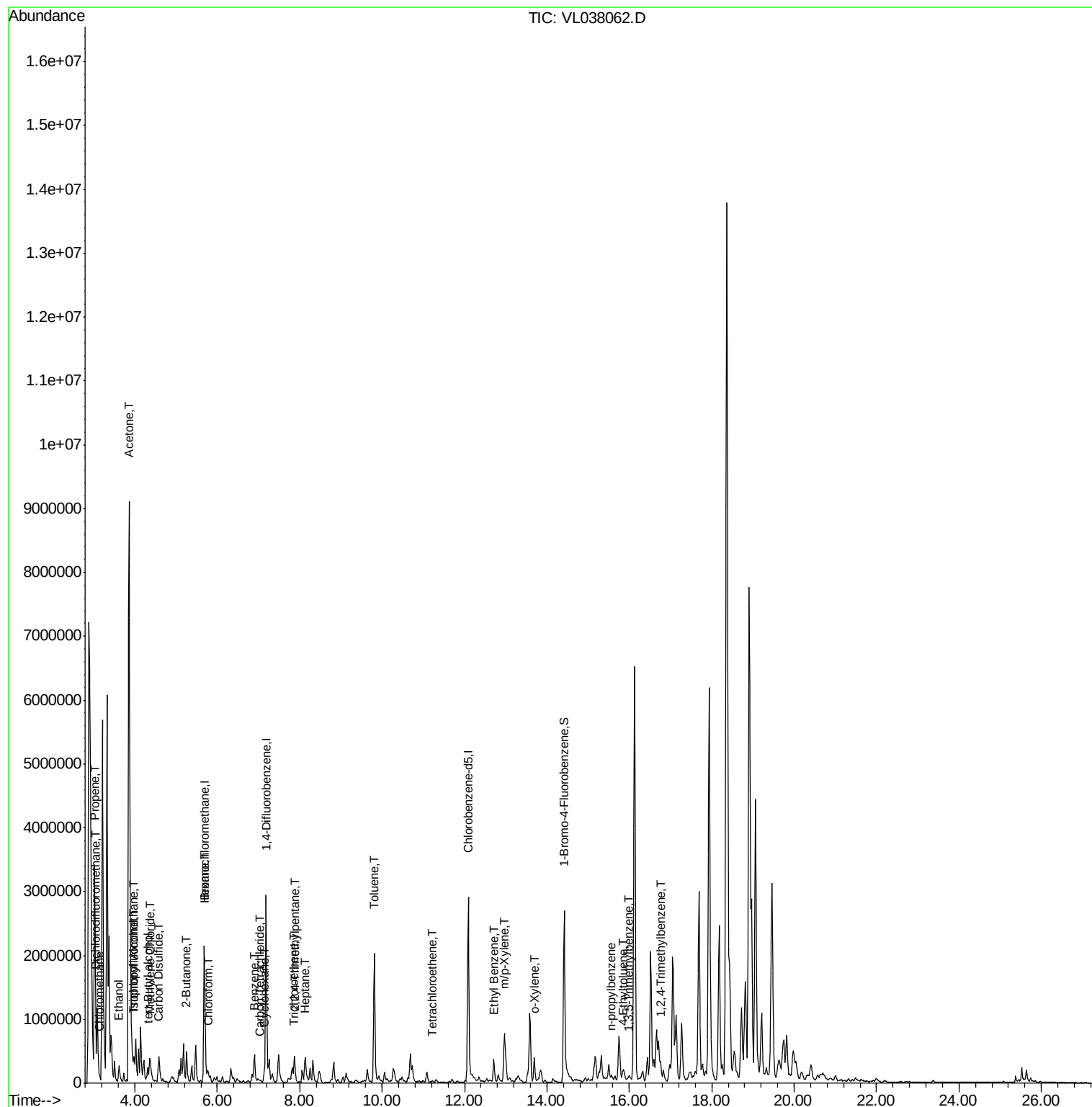
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
Data File : VL038062.D
Acq On : 18 Nov 2021 20:27
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Sample : M4704-01
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

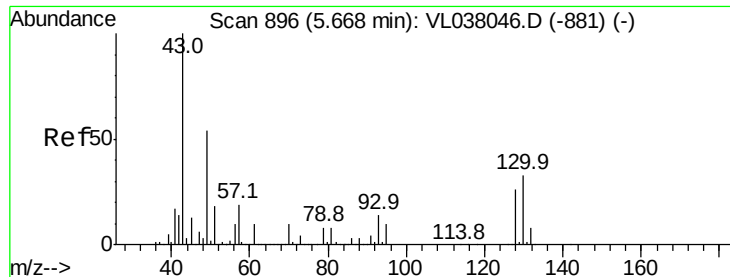
Instrument :
MSVOA_L
ClientSampleId :
15-JOHN

Manual Integrations
APPROVED

Quant Time: Nov 19 08:00:16 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Nov 2021 20:27

Tot Ion:

Ion Ratio

49 100

128 48.

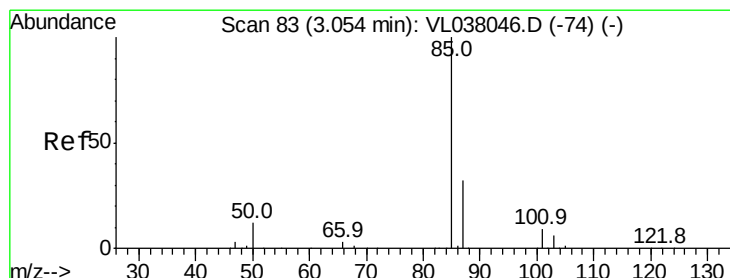
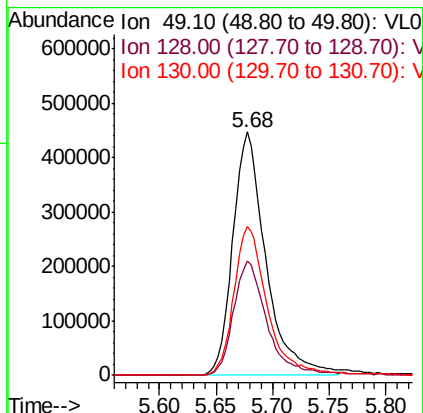
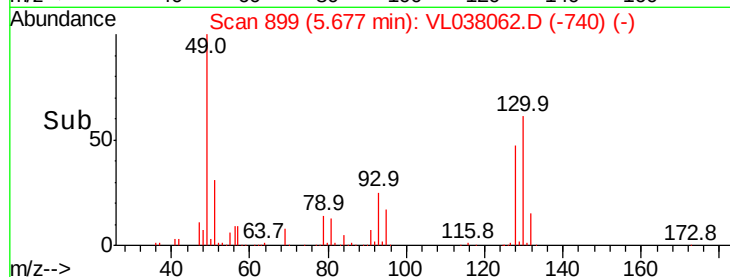
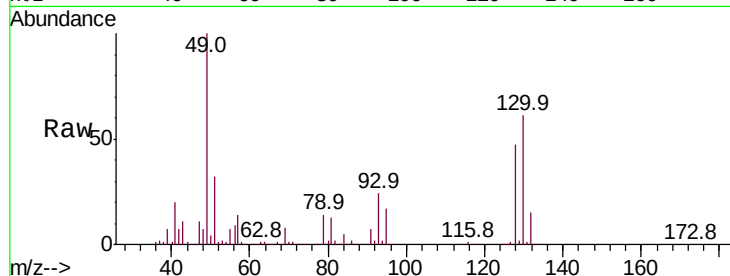
130 62.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#2

Dichlorodifluoromethane

Concen: 0.190 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL038062.D

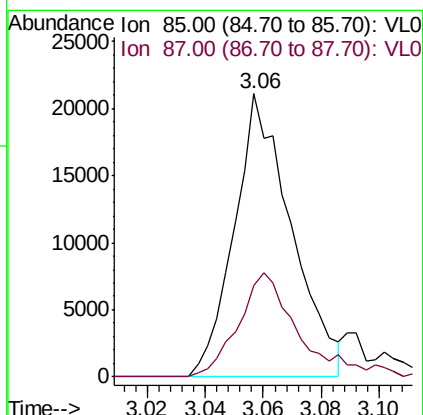
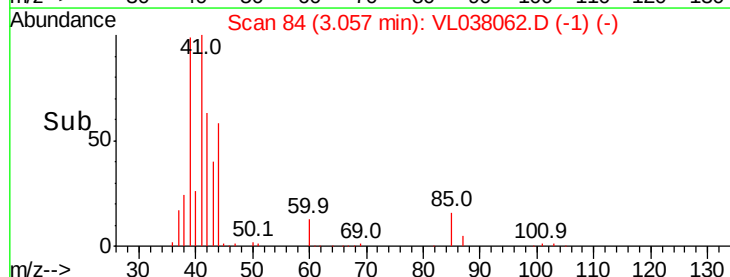
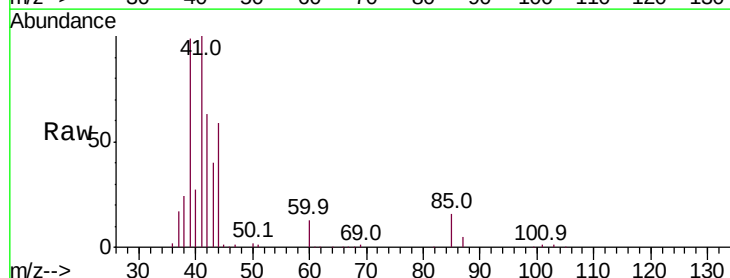
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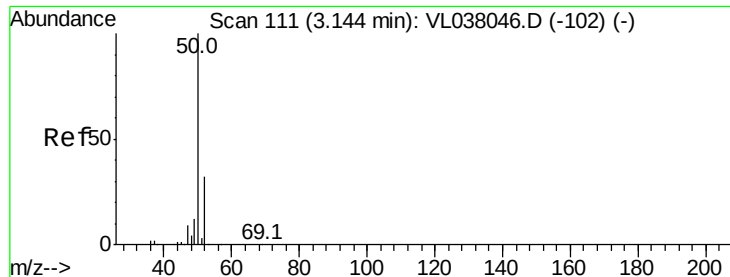
Tgt Ion: 85 Resp: 28729

Ion Ratio Lower Upper

85 100

87 32.3 25.8 38.6





#4

Chloromethane

Concen: 0.393 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Nov 2021 20:27

Tot Ion:

Ion Ratio

50 100

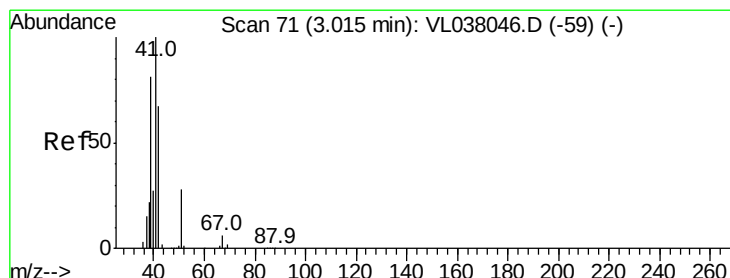
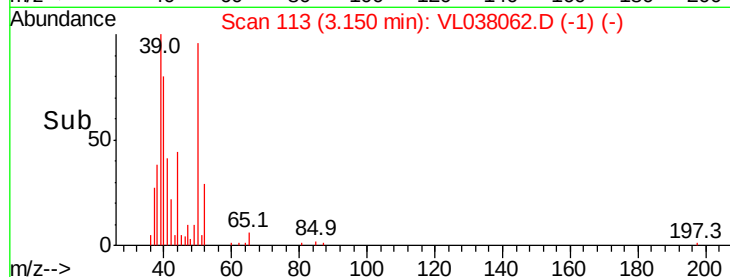
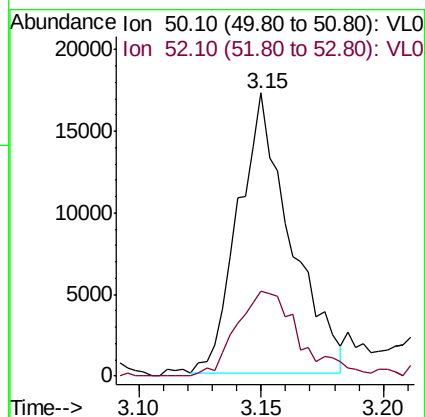
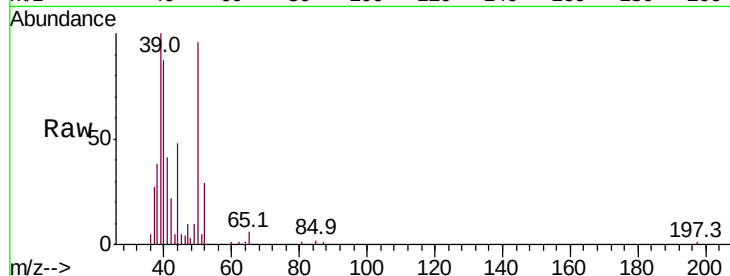
52 30.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

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#9

Propene

Concen: 27.306 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL038062.D

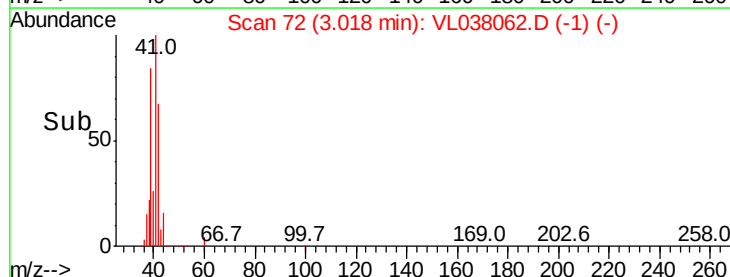
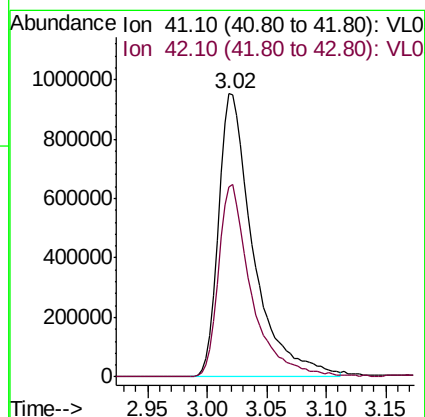
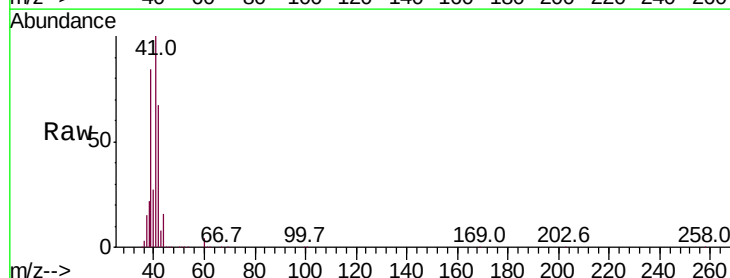
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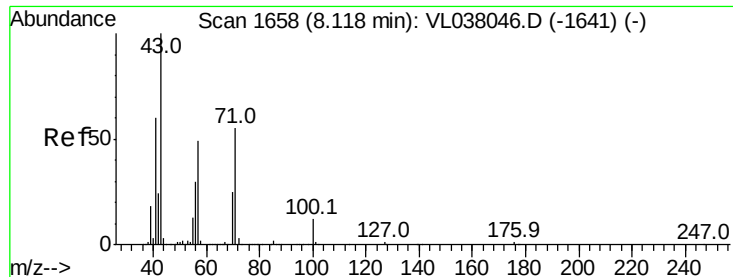
Tgt Ion: 41 Resp: 1929093

Ion Ratio Lower Upper

41 100

42 64.2 53.8 80.8



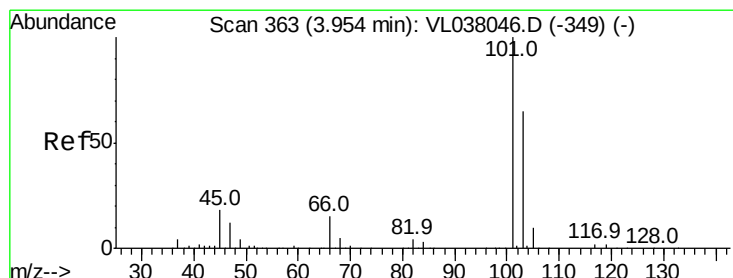
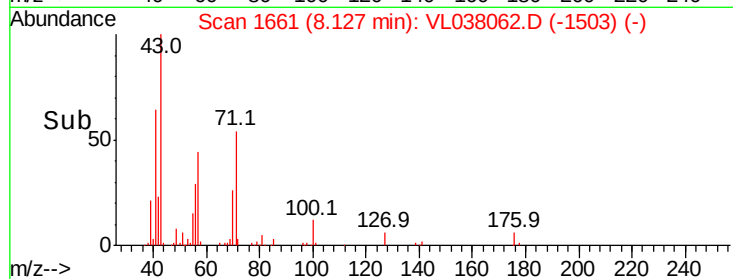
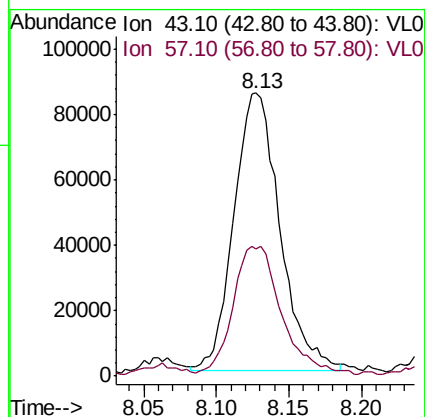
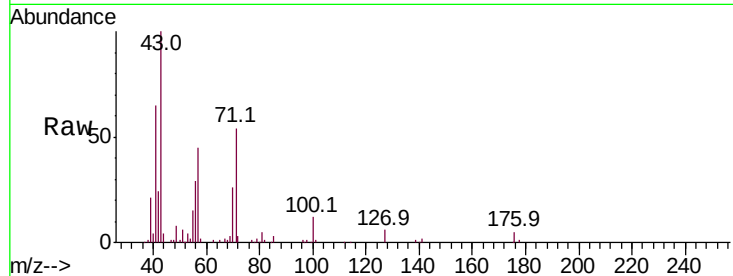


#10
 Heptane
 Concen: 1.075 ppbv
 RT: 8.13
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 18 Nov 2021 20:27

Tot Ion:
 Ion Ratio
 43 100
 57 48.

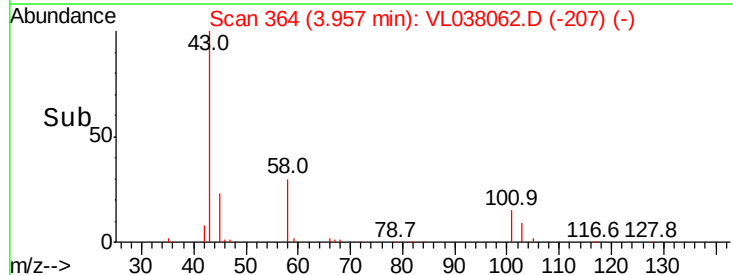
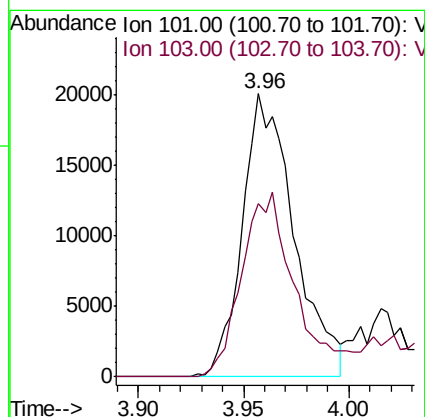
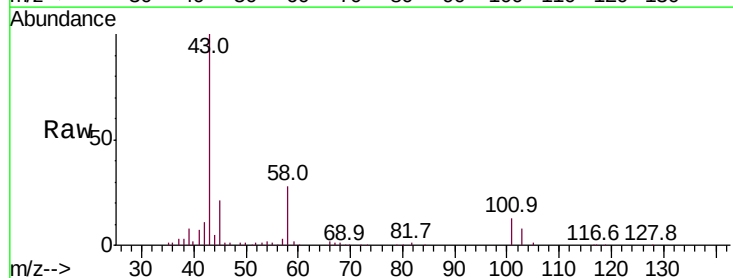
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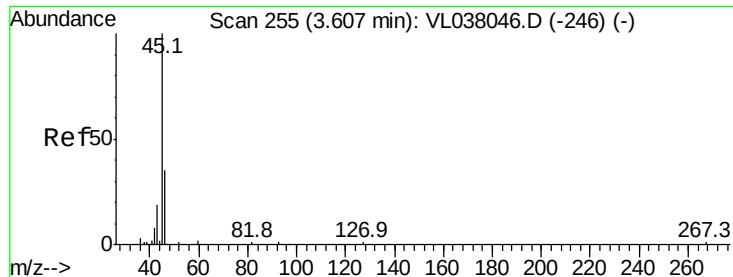
Reviewed By :Semsettin Yesilyurt 11/25/2021
 Supervised By :Mahesh Dadoda 11/29/2021



#11
 Trichlorofluoromethane
 Concen: 0.239 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VL038062.D
 Acq: 18 Nov 2021 20:27

Tgt Ion:101 Resp: 34324
 Ion Ratio Lower Upper
 101 100
 103 61.4 51.8 77.6



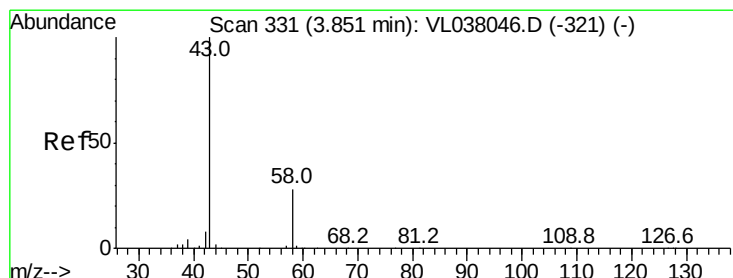
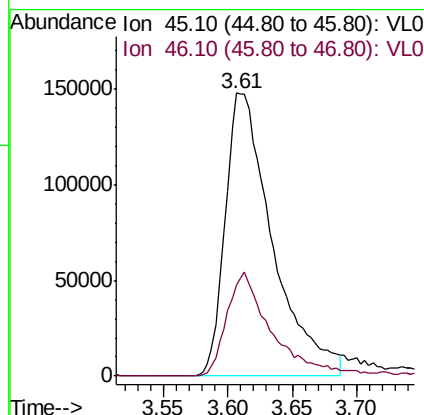
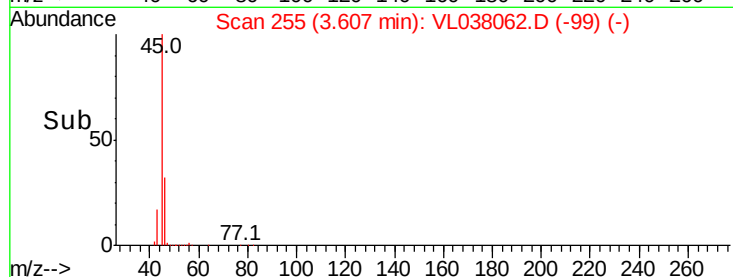
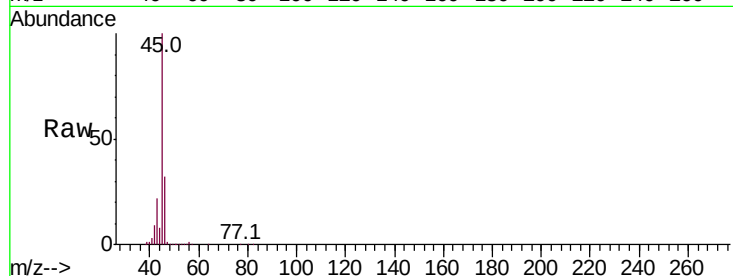


#13
Ethanol
Concen: 55.328 ppbv
RT: 3.61
Instrument : MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 18 Nov 2021 20:27

Tot Ion:
Ion Ratio
45 100
46 35.

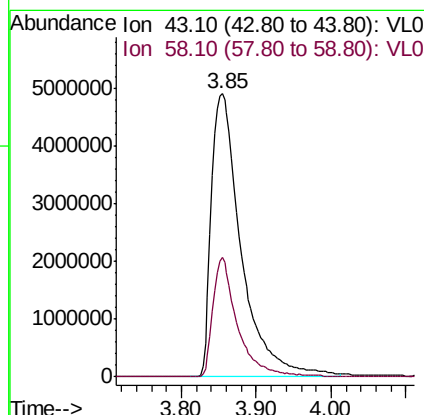
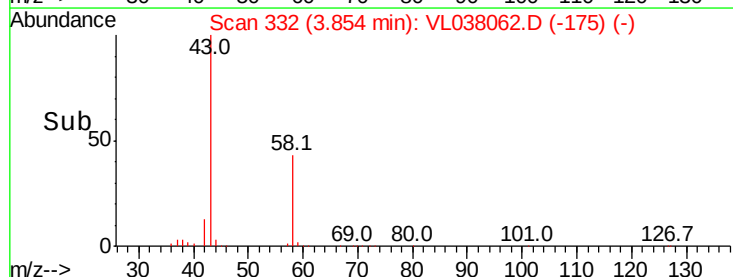
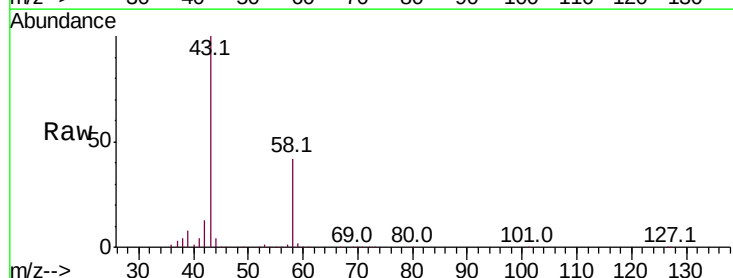
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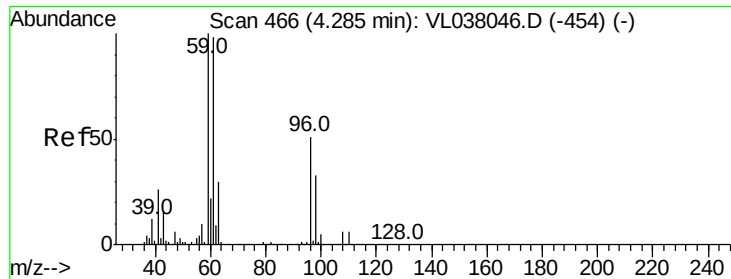
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#15
Acetone
Concen: 172.297 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL038062.D
Acq: 18 Nov 2021 20:27

Tgt Ion: 43 Resp:13645641
Ion Ratio Lower Upper
43 100
58 35.2 22.4 33.6#



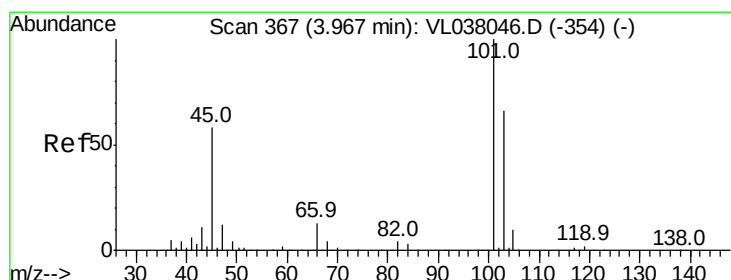
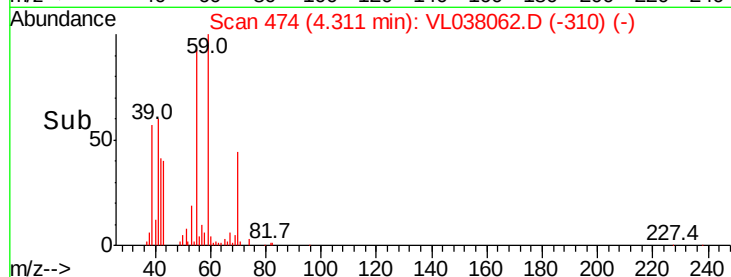
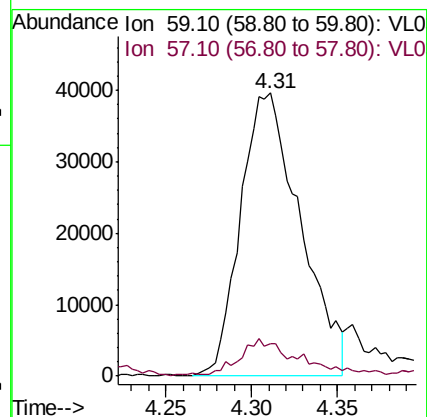
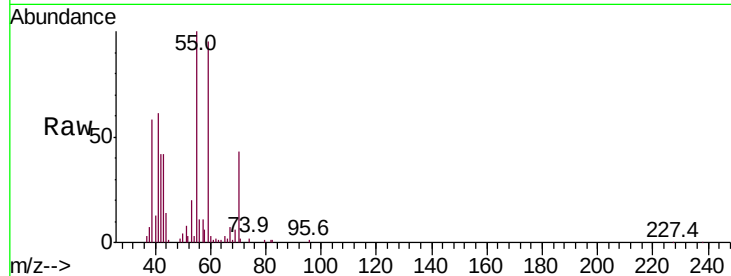


#17
tert-Butyl alcohol
Concen: 0.997 ppbv
RT: 4.31
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 18 Nov 2021 20:27

Tot Ion:
Ion Ratio
59 100
57 12.

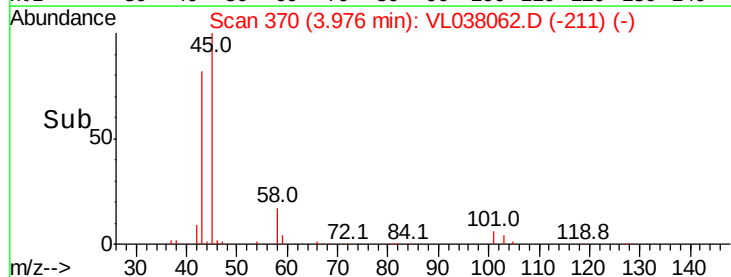
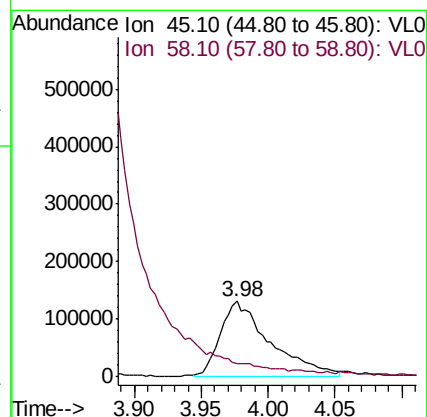
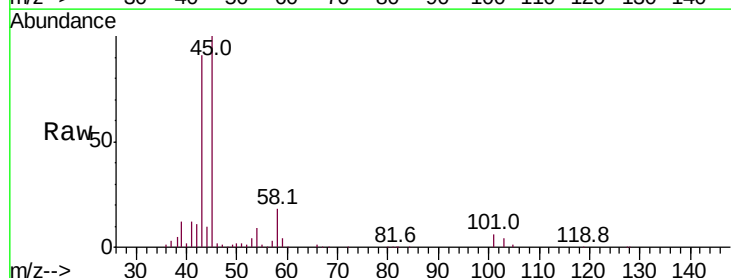
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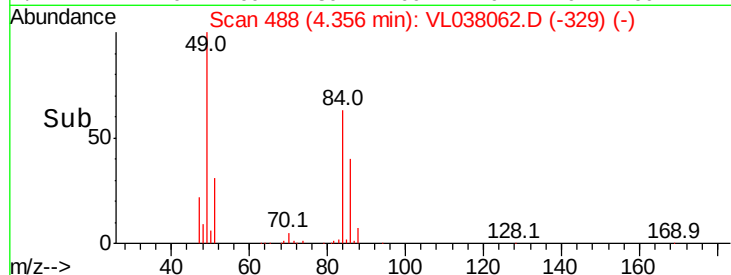
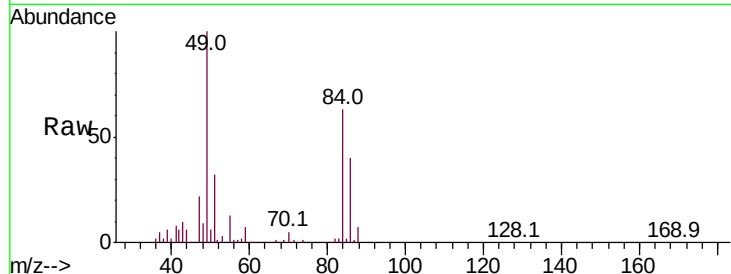
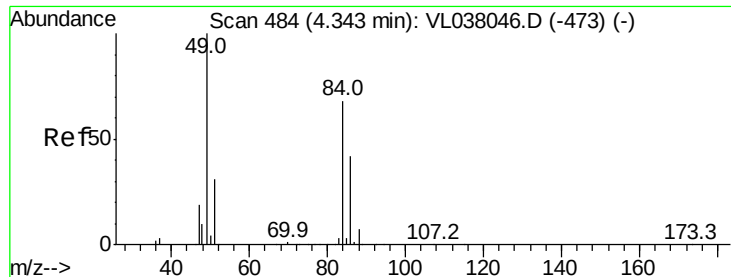
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#19
Isopropyl Alcohol
Concen: 5.983 ppbv m
RT: 3.98 min Scan# 370
Delta R.T. 0.01 min
Lab File: VL038062.D
Acq: 18 Nov 2021 20:27

Tgt Ion: 45 Resp: 342375
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.0#



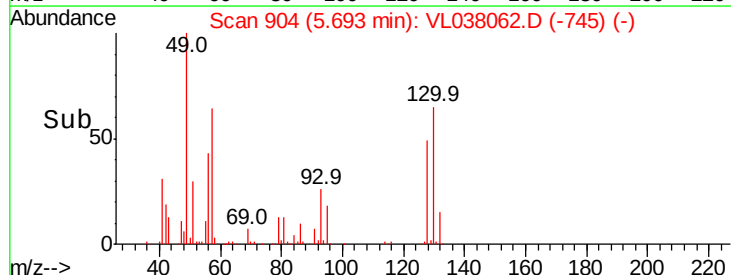
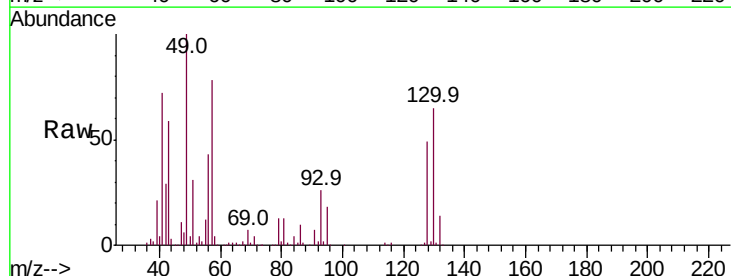
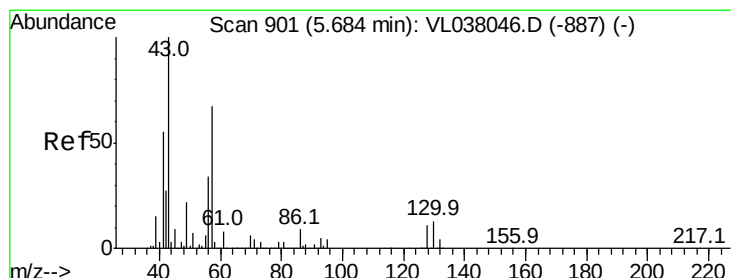
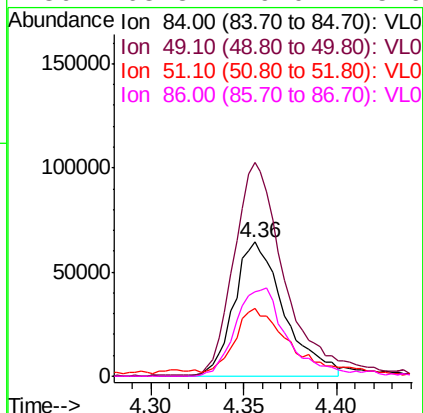


#20
Methvlene Chloride
Concen: 2.723 ppbv
RT: 4.36
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 18 Nov 2021 20:27

Tot Ion:
Ion Ratio
84 100
49 158.
51 47.
86 63.3 49.0 73.6

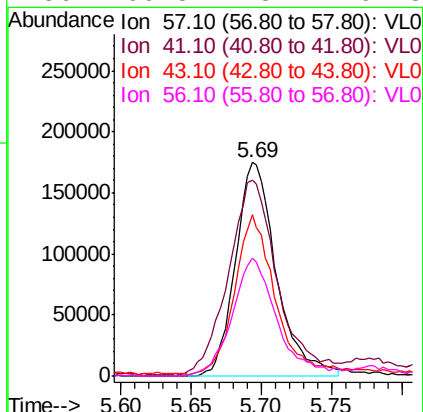
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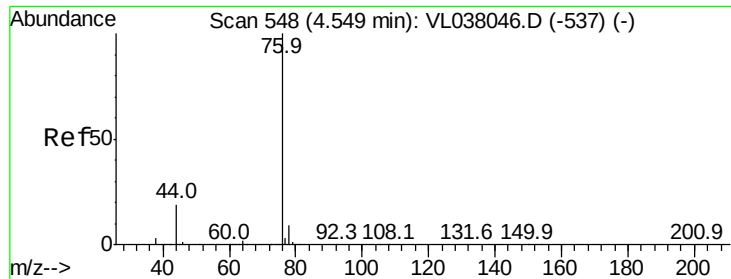
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#26
Hexane
Concen: 2.791 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL038062.D
Acq: 18 Nov 2021 20:27

Tgt Ion: 57 Resp: 354148
Ion Ratio Lower Upper
57 100
41 109.0 71.4 107.2#
43 78.9 174.6 261.8#
56 60.8 43.2 64.8



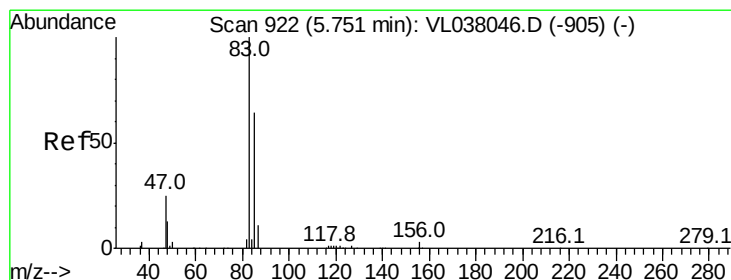
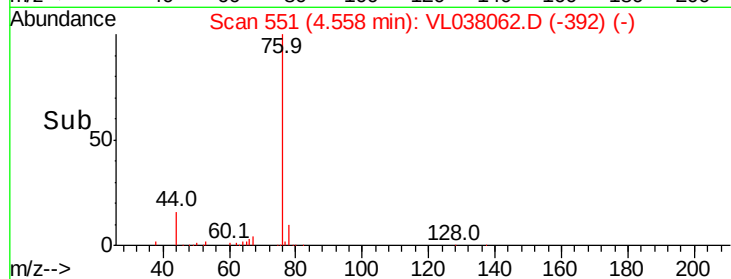
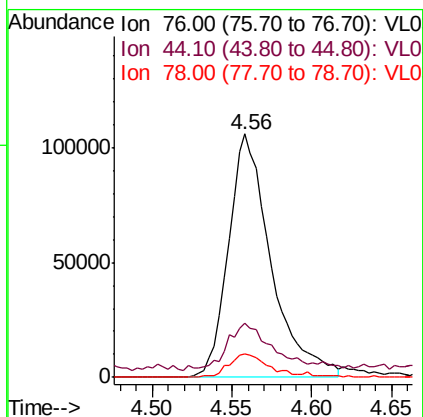
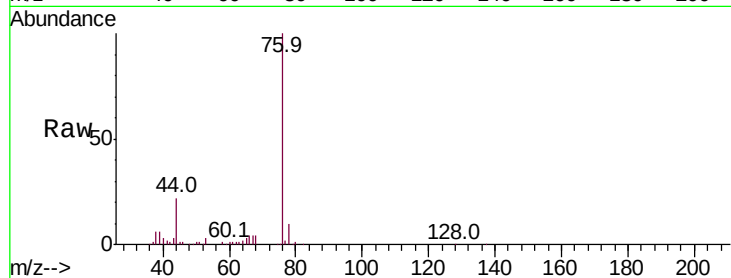


#27
Carbon Disulfide
Concen: 1.691 ppbv
RT: 4.56
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 20:27

Tot Ion:
Ion Ratio
76 100
44 22.
78 10.

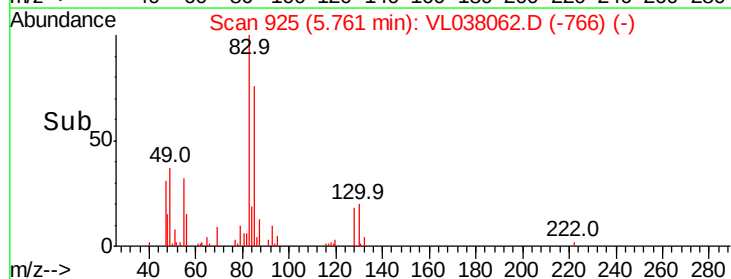
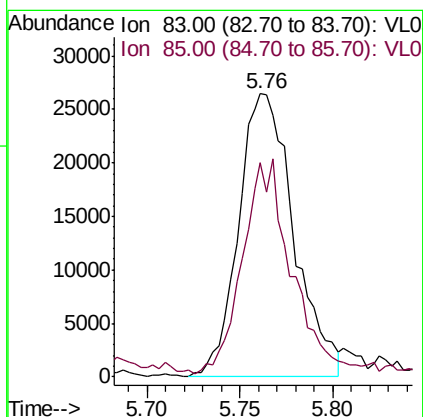
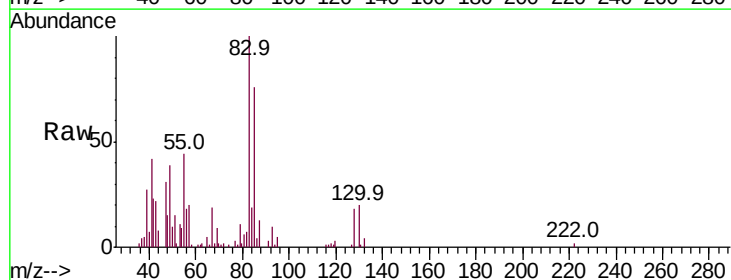
Manual Integrations
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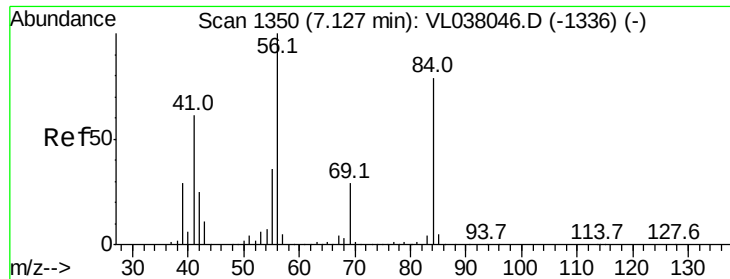
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#29
Chloroform
Concen: 0.294 ppbv
RT: 5.76 min Scan# 925
Delta R.T. 0.01 min
Lab File: VL038062.D
Acq: 18 Nov 2021 20:27

Tgt Ion: 83 Resp: 54966
Ion Ratio Lower Upper
83 100
85 73.5 51.0 76.6



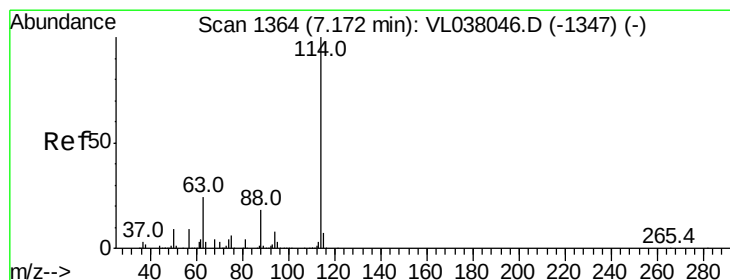
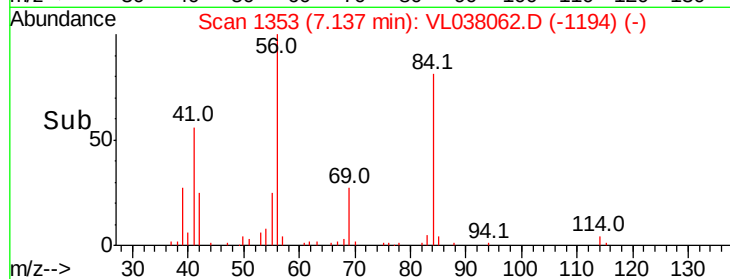
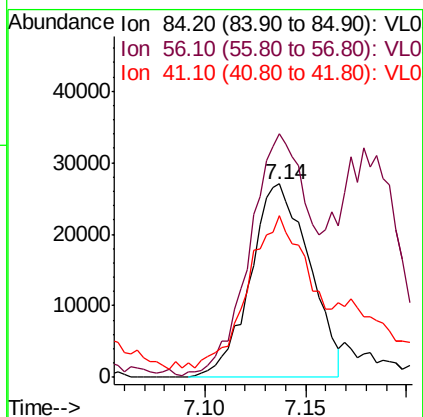
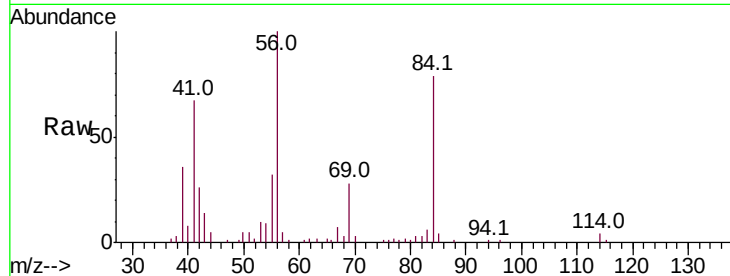


#30
Cvclohexane
Concen: 0.477 ppbv
RT: 7.14
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 18 Nov 2021 20:27

Tot Ion:
Ion Ratio
84 100
56 129.
41 114.

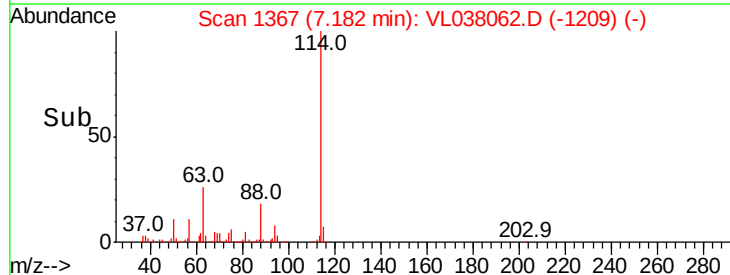
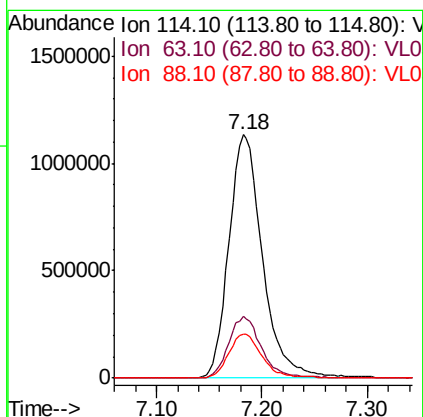
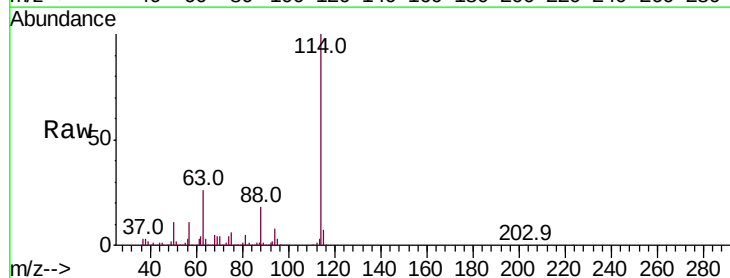
Manual Integrations
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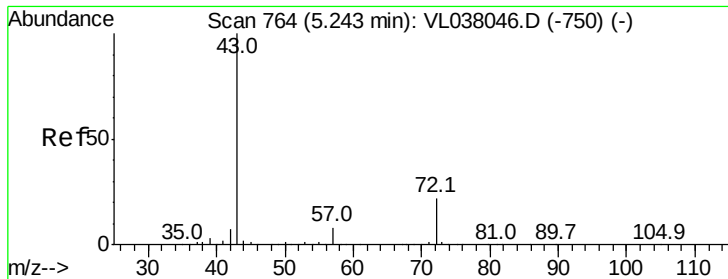
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. 0.01 min
Lab File: VL038062.D
Acq: 18 Nov 2021 20:27

Tgt Ion:114 Resp: 2495472
Ion Ratio Lower Upper
114 100
63 25.0 19.7 29.5
88 18.2 14.4 21.6



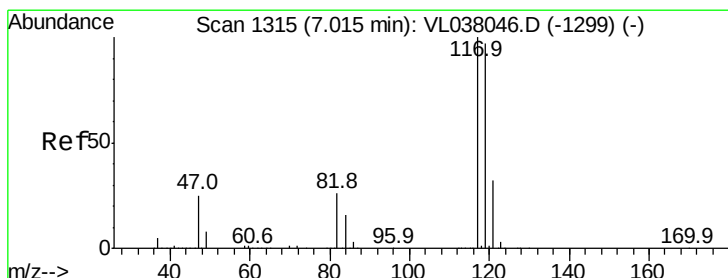
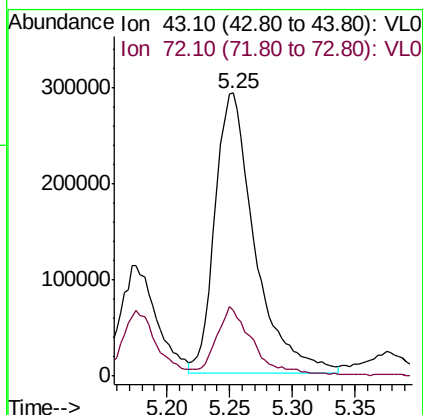
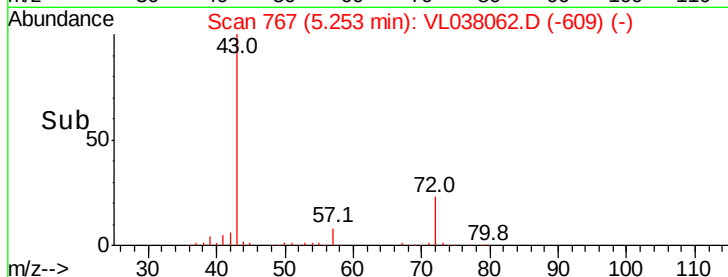
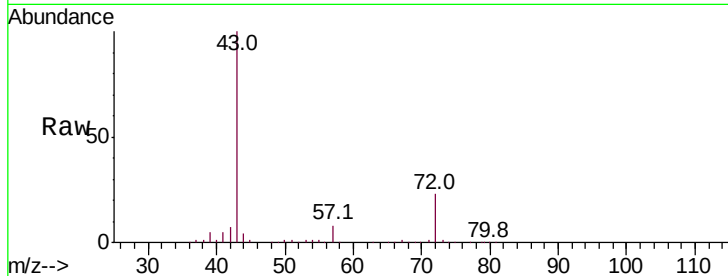


#34
2-Butanone
Concen: 6.395 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 20:27

Tot Ion:
Ion Rati
43 100
72 23.

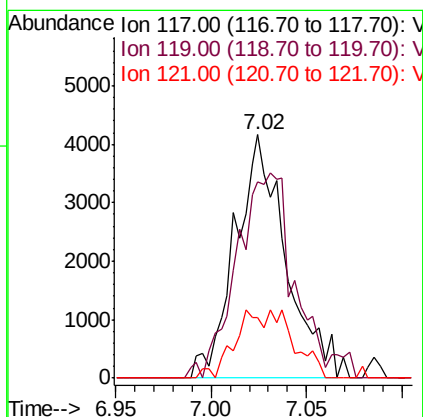
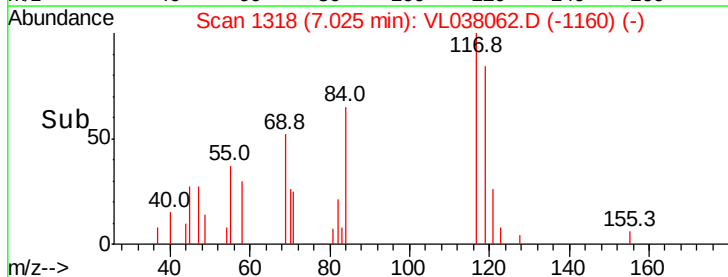
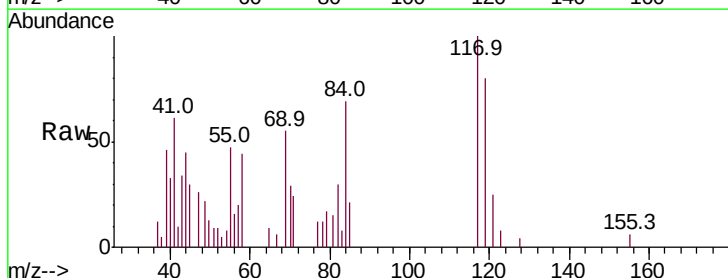
Manual Integrations
APPROVED

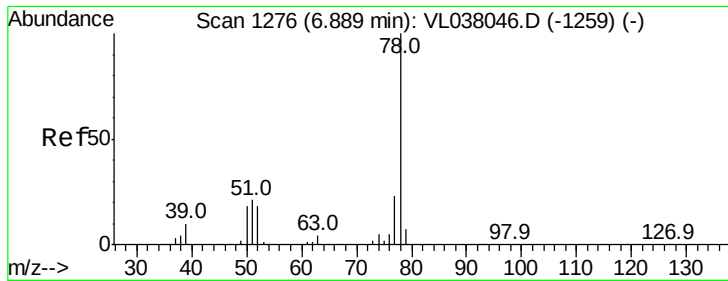
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#35
Carbon Tetrachloride
Concen: 0.044 ppbv m
RT: 7.02 min Scan# 1318
Delta R.T. 0.01 min
Lab File: VL038062.D
Acq: 18 Nov 2021 20:27

Tgt Ion:117 Resp: 7707
Ion Ratio Lower Upper
117 100
119 80.3 77.7 116.5
121 24.8 25.6 38.4#



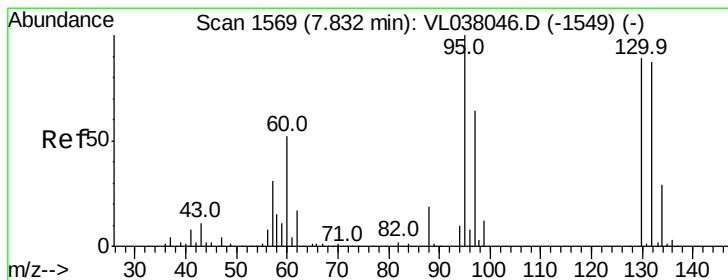
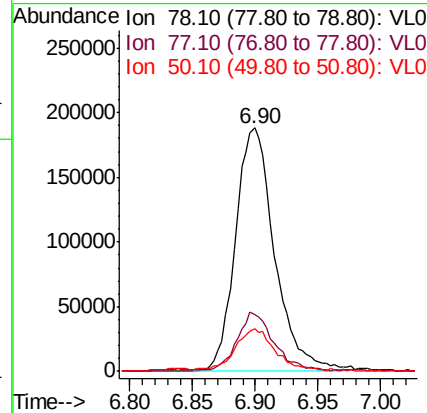
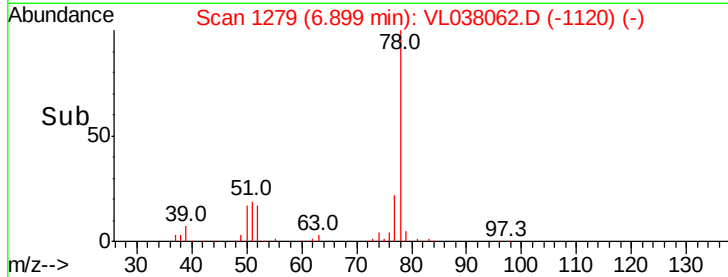
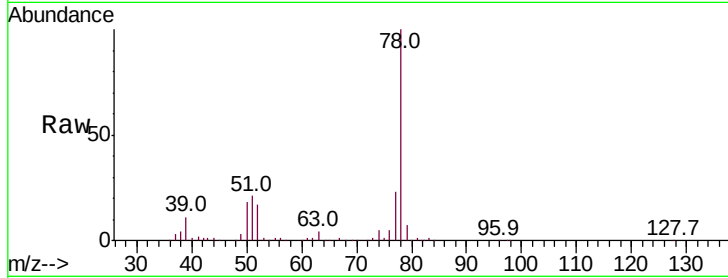


#36
Benzene
Concen: 1.630 ppbv
RT: 6.90
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 18 Nov 2021 20:27

Tot Ion:
Ion Ratio
78 100
77 22.
50 17.

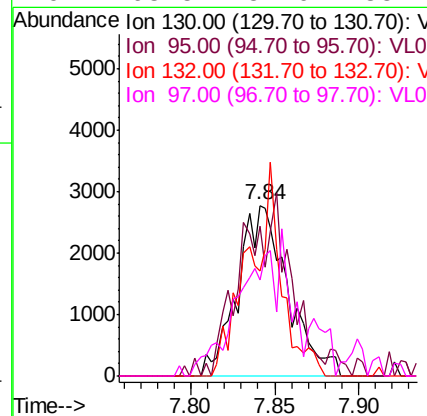
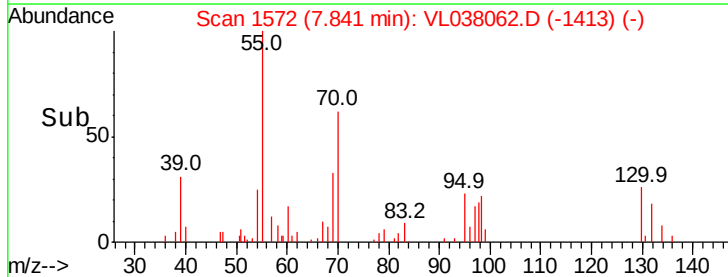
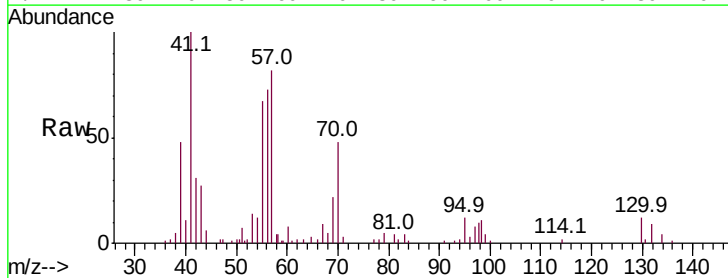
Manual Integrations
APPROVED

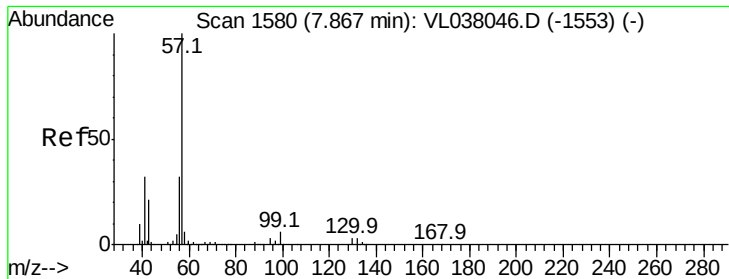
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#38
Trichloroethene
Concen: 0.062 ppbv m
RT: 7.84 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VL038062.D
Acq: 18 Nov 2021 20:27

Tgt Ion:130 Resp: 5776
Ion Ratio Lower Upper
130 100
95 99.2 89.4 134.2
132 69.4 78.2 117.2#
97 63.5 57.0 85.4



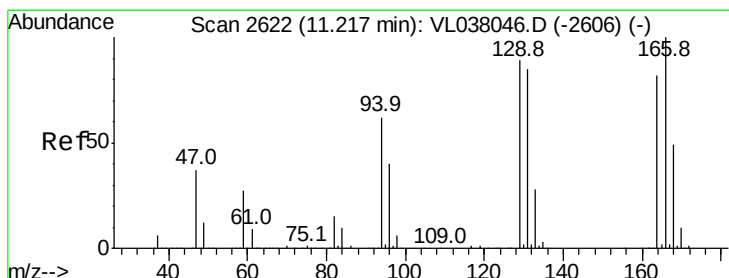
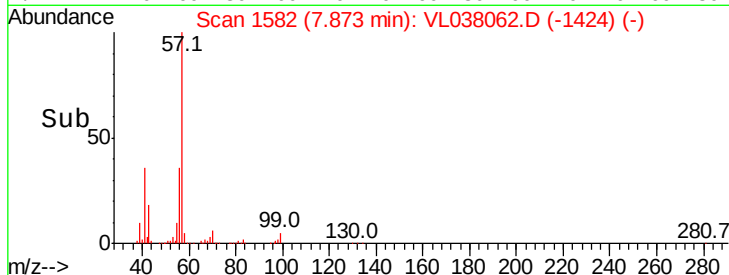
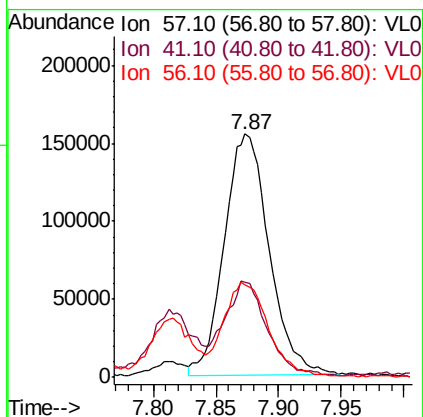
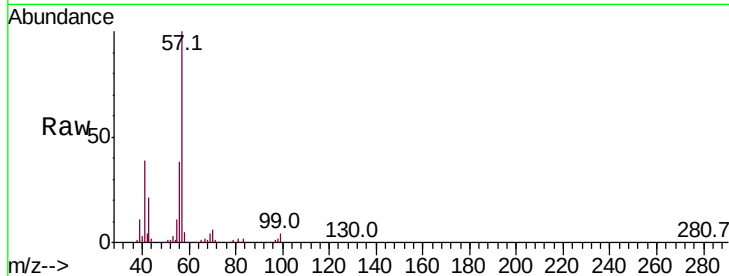


#44
2,2,4-Trimethylpentane
Concen: 0.920 ppbv
RT: 7.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 20:27

Tot Ion:
Ion Ratio
57 100
41 37.
56 40.

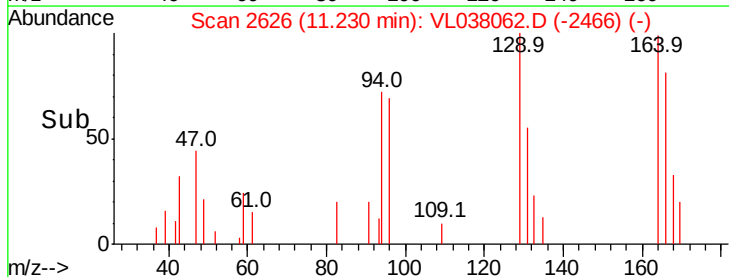
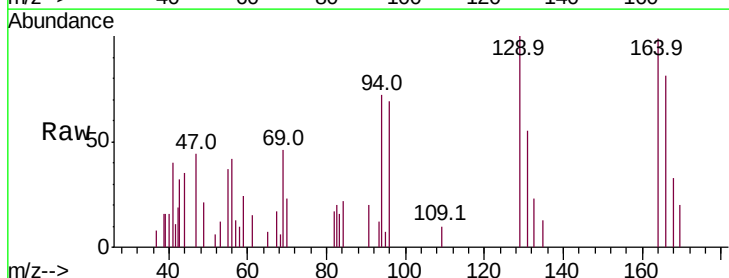
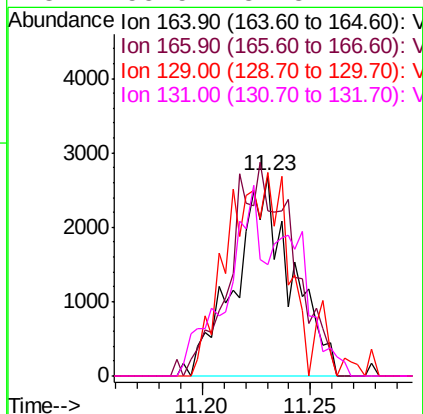
Manual Integrations
APPROVED

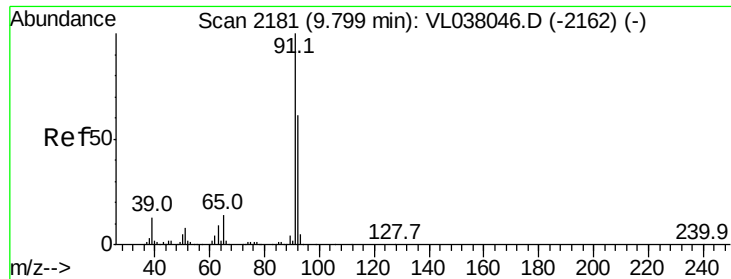
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#52
Tetrachloroethene
Concen: 0.052 ppbv m
RT: 11.23 min Scan# 2626
Delta R.T. 0.01 min
Lab File: VL038062.D
Acq: 18 Nov 2021 20:27

Tgt Ion:164 Resp: 4823
Ion Ratio Lower Upper
164 100
166 82.2 97.2 145.8#
129 101.4 86.9 130.3
131 55.5 82.8 124.2#





#53

Toluene

Concen: 5.894 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Nov 2021 20:27

Tot Ion:

Ion Ratio

91 100

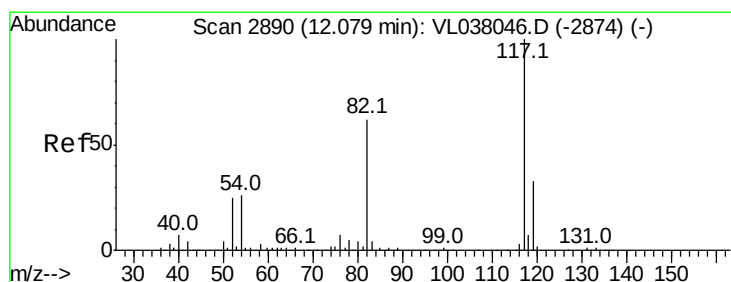
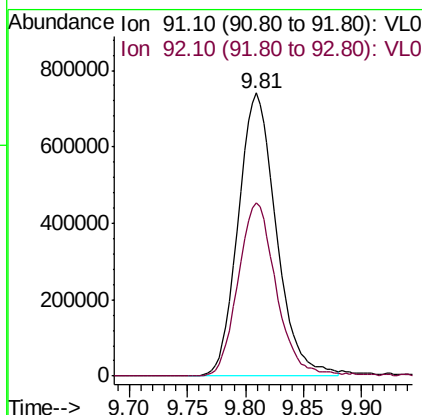
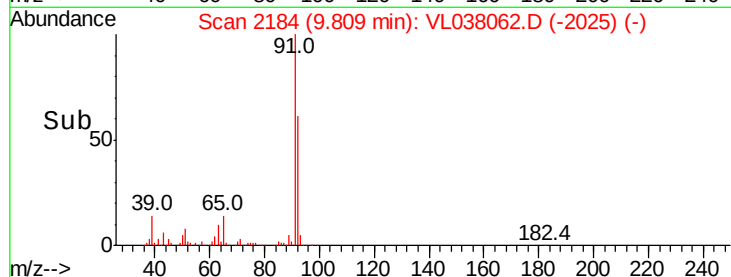
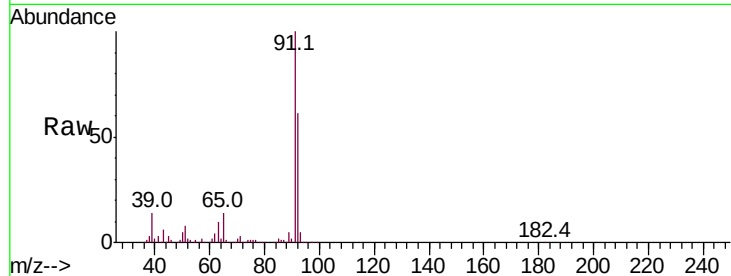
92 62.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. 0.01 min

Lab File: VL038062.D

Acq: 18 Nov 2021 20:27

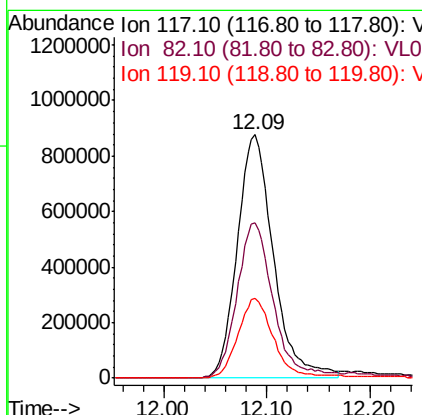
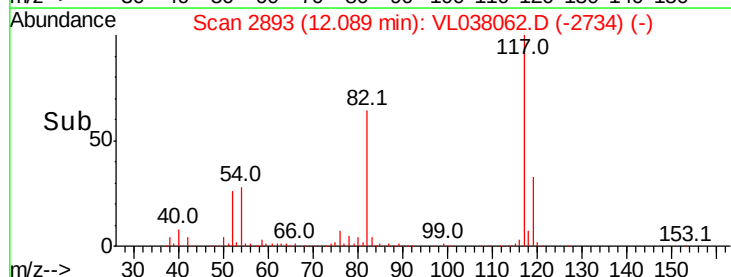
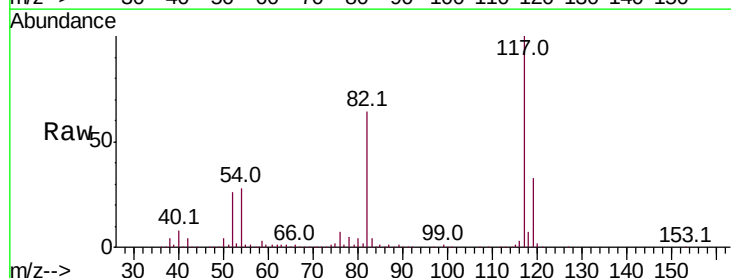
Tgt Ion:117 Resp: 2145234

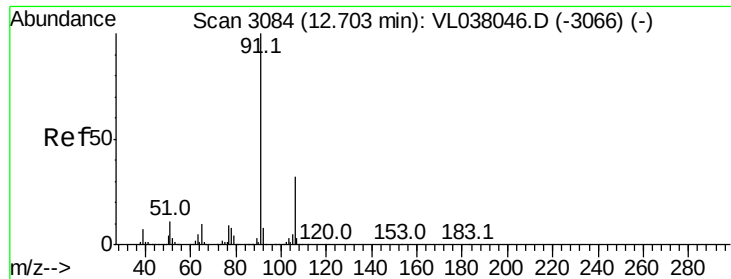
Ion Ratio Lower Upper

117 100

82 68.8 52.8 79.2

119 34.4 26.8 40.2



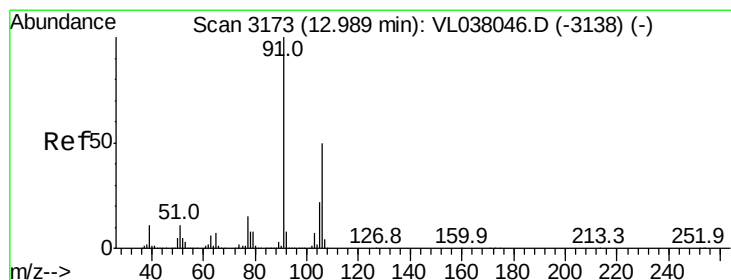
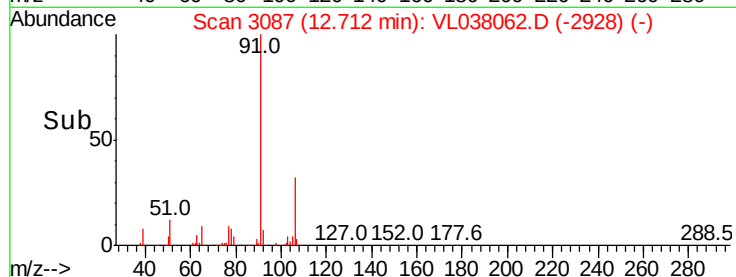
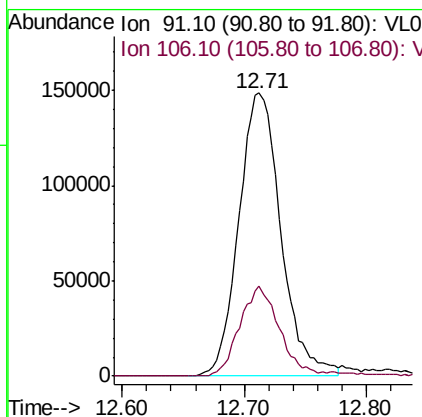
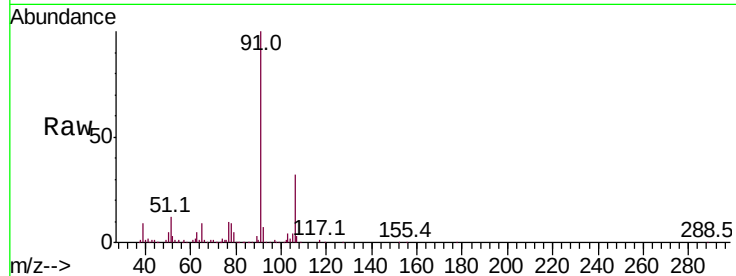


#58
Ethyl Benzene
Concen: 0.995 ppbv
RT: 12.71 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 18 Nov 2021 20:27

Tot Ion:
Ion Ratio
91 100
106 31.

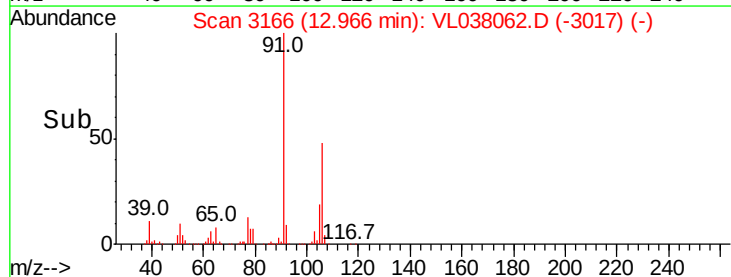
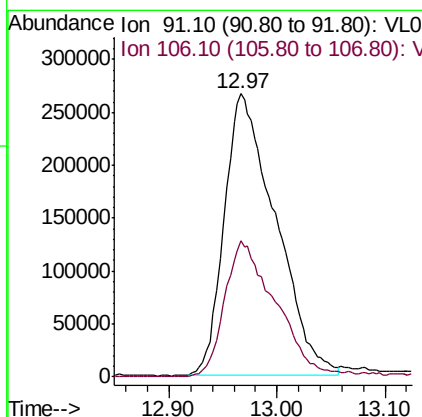
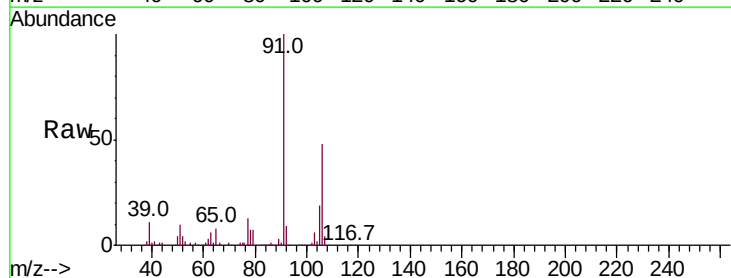
Manual Integrations
APPROVED

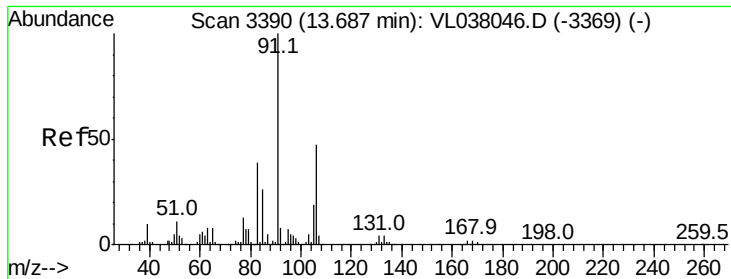
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#59
m/p-Xylene
Concen: 2.934 ppbv
RT: 12.97 min Scan# 3166
Delta R.T. -0.02 min
Lab File: VL038062.D
Acq: 18 Nov 2021 20:27

Tgt Ion: 91 Resp: 875649
Ion Ratio Lower Upper
91 100
106 49.1 38.1 57.1





#60

o-Xylene

Concen: 1.140 ppbv

RT: 13.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 18 Nov 2021 20:27

Tot Ion:

Ion Ratio

91 100

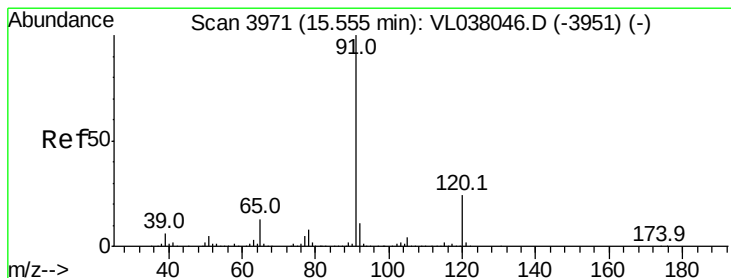
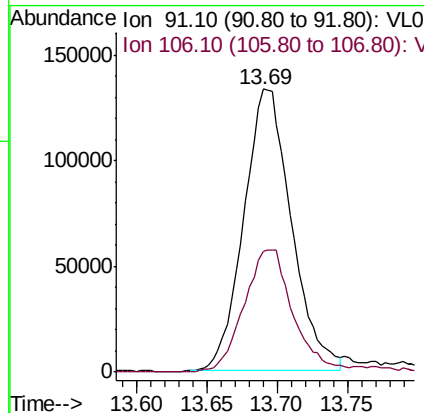
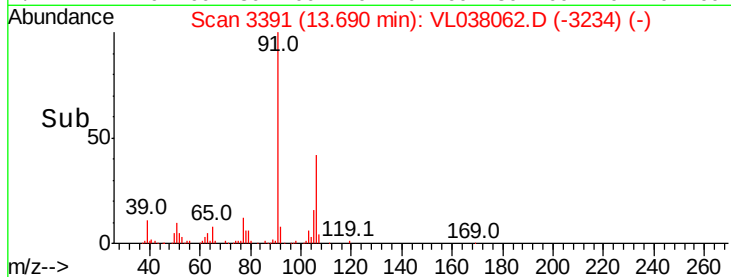
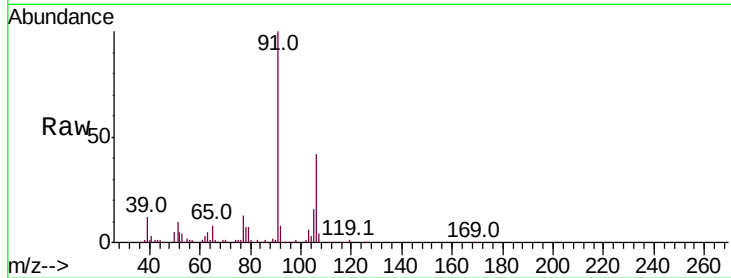
106 46.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#64

n-propylbenzene

Concen: 0.195 ppbv m

RT: 15.56 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VL038062.D

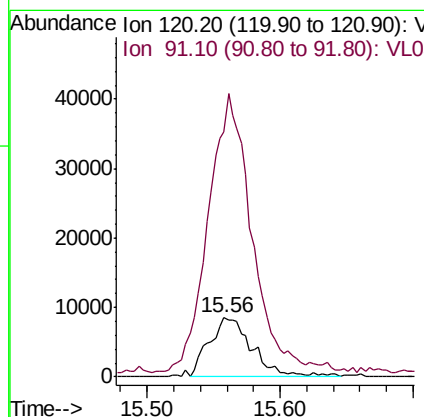
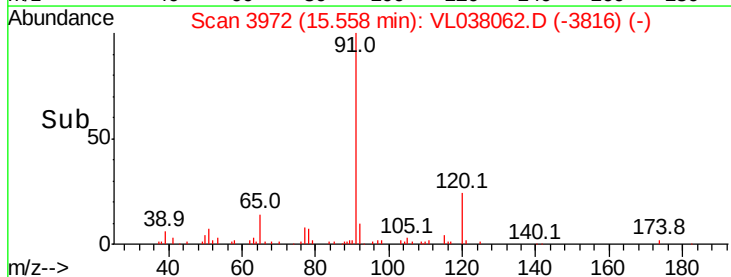
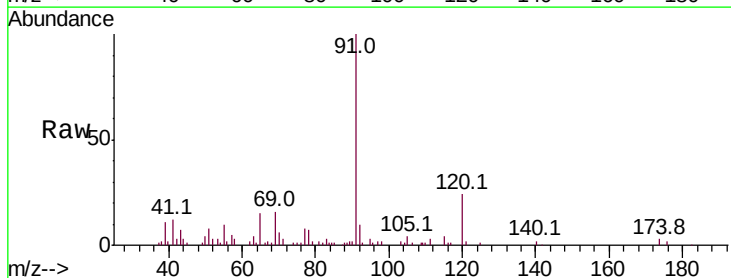
Acq: 18 Nov 2021 20:27

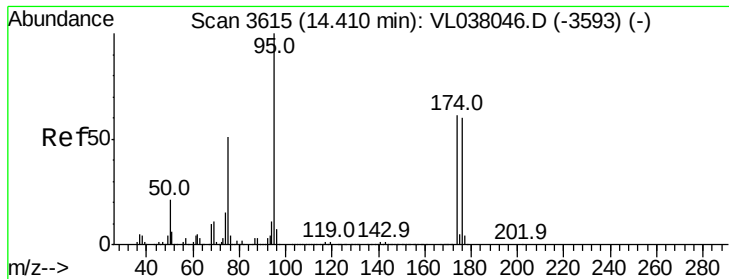
Tgt Ion:120 Resp: 19501

Ion Ratio Lower Upper

120 100

91 483.7 371.7 557.5



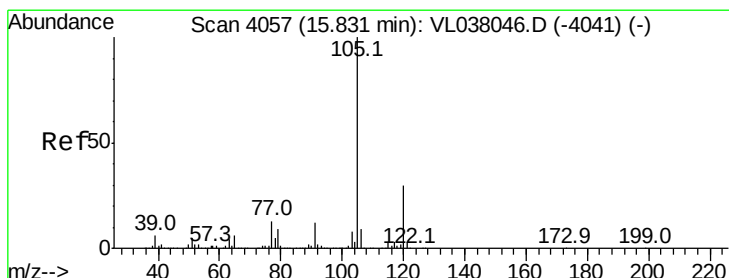
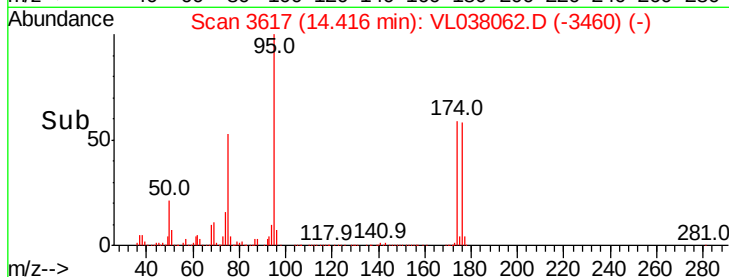
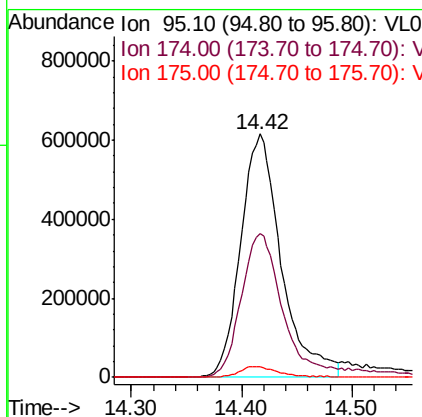
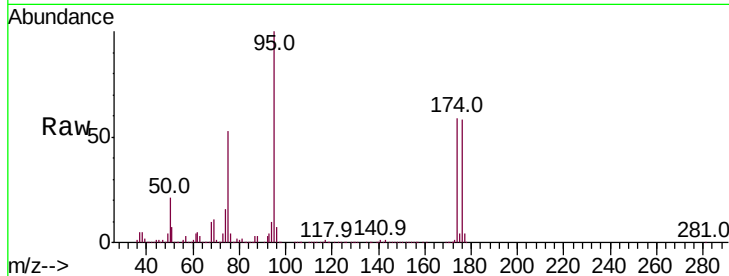


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.171 ppbv
 RT: 14.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 18 Nov 2021 20:27

Tot Ion:
 Ion Ratio
 95 100
 174 65.
 175 4.

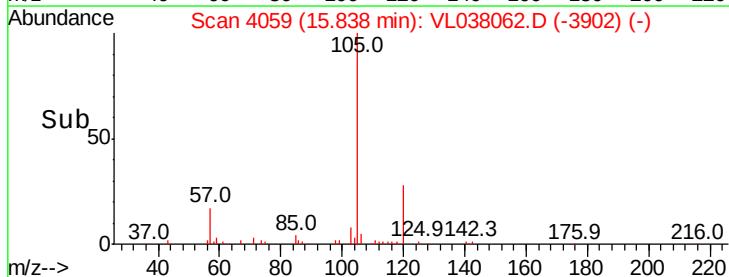
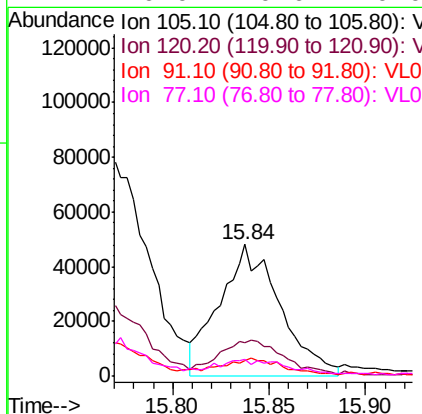
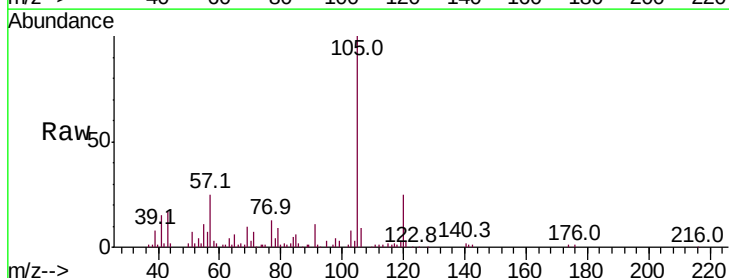
Manual Integrations
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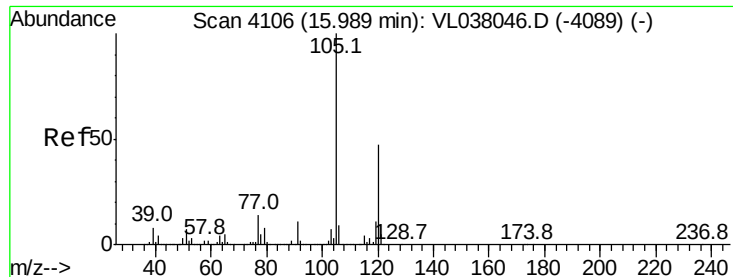
Reviewed By :Semsettin Yesilyurt 11/25/2021
 Supervised By :Mahesh Dadoda 11/29/2021



#72
 4-Ethyltoluene
 Concen: 0.328 ppbv m
 RT: 15.84 min Scan# 4059
 Delta R.T. 0.01 min
 Lab File: VL038062.D
 Acq: 18 Nov 2021 20:27

Tgt Ion:105 Resp: 105325
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.1 37.7#
 91 0.0 9.7 14.5#
 77 0.0 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.228 ppbv m

RT: 16.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 18 Nov 2021 20:27

Tot Ion:1

Ion Rati

105 100

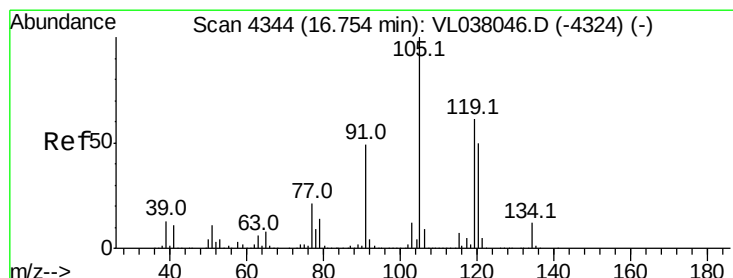
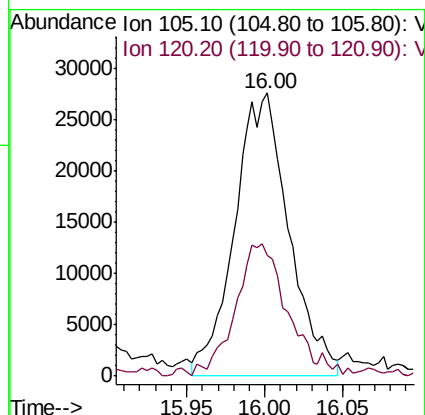
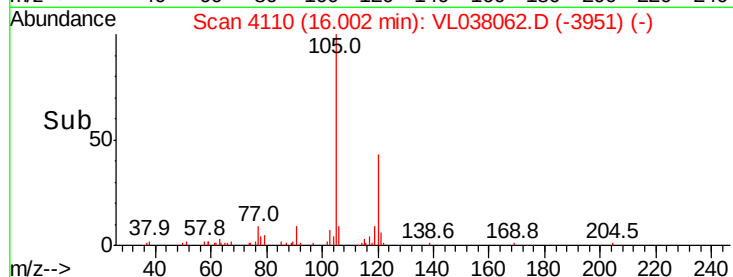
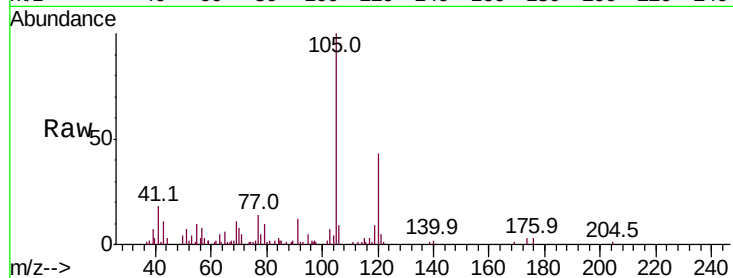
120 42.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#74

1,2,4-Trimethylbenzene

Concen: 0.764 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. 0.01 min

Lab File: VL038062.D

Acq: 18 Nov 2021 20:27

Tgt Ion:105 Resp: 230960

Ion Ratio Lower Upper

105 100

120 43.4 40.1 60.1

91 12.3 39.8 59.8#

77 11.2 16.6 25.0#

