

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122921\
 Data File : VL038236.D
 Acq On : 29 Dec 2021 17:18
 Operator : SY/AP
 Sample : M5217-03 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/30/2021
 Supervised By :Semsettin Yesilyurt 01/02/2022

Quant Time: Dec 29 18:41:31 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LTue Dec 2

QLast Update : Tue Dec 21 17:47:08 2021

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.674	49	691205	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.179	114	1894838	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.085	117	1620263	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.416	95	1288106	10.317	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.200%
Target Compounds						Qvalue
9) Propene	3.025	41	77403	1.535	ppbv	93
10) Heptane	8.124	43	38820	0.303	ppbv	85
13) Ethanol	3.616	45	185241m	21.665	ppbv	
15) Acetone	3.861	43	334282	4.819	ppbv #	84
19) Isopropyl Alcohol	3.983	45	29495	0.682	ppbv #	35
20) Methylene Chloride	4.349	84	72448	1.850	ppbv	92
26) Hexane	5.697	57	54682m	0.580	ppbv	
29) Chloroform	5.751	83	127258	0.909	ppbv	92
30) Cyclohexane	7.131	84	10193m	0.122	ppbv	
34) 2-Butanone	5.253	43	430809	7.564	ppbv	100
36) Benzene	6.896	78	39508m	0.224	ppbv	
38) Trichloroethene	7.838	130	14364m	0.214	ppbv	
41) Tetrahydrofuran	6.073	42	52842	1.267	ppbv	100
44) 2,2,4-Trimethylpentane	7.873	57	169921	0.566	ppbv #	86
52) Tetrachloroethene	11.224	164	22670	0.347	ppbv #	82
53) Toluene	9.809	91	276888	1.358	ppbv	99
58) Ethyl Benzene	12.712	91	81805	0.325	ppbv	98
59) m/p-Xylene	12.963	91	236363m	1.100	ppbv	
60) o-Xylene	13.687	91	76030m	0.382	ppbv	
72) 4-Ethyltoluene	15.834	105	43226m	0.188	ppbv	
74) 1,2,4-Trimethylbenzene	16.757	105	77605m	0.360	ppbv	

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

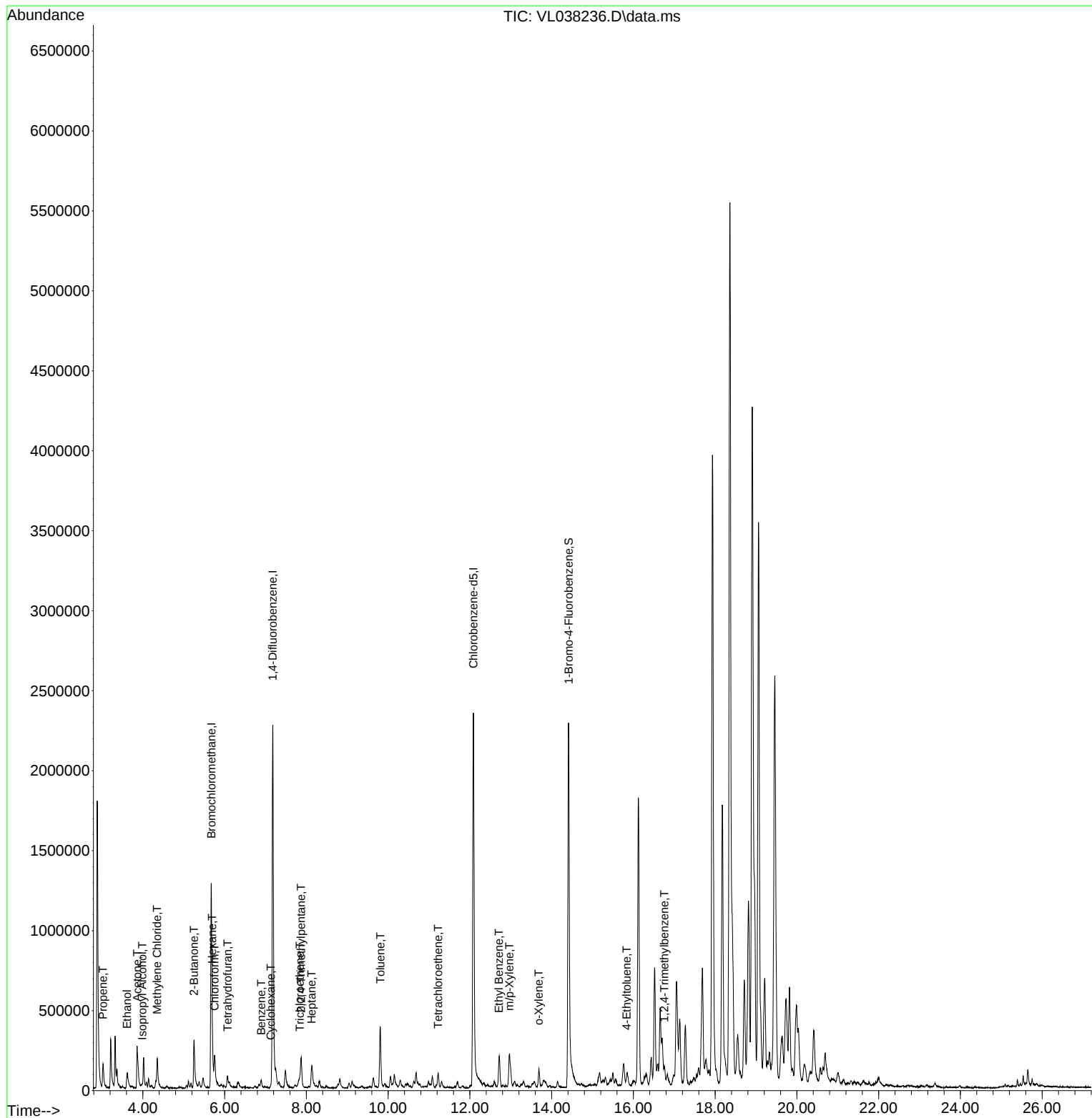
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122921\
Data File : VL038236.D
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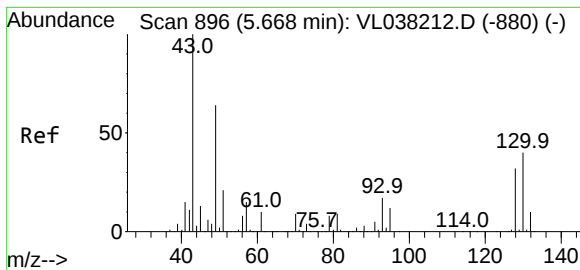
Instrument :
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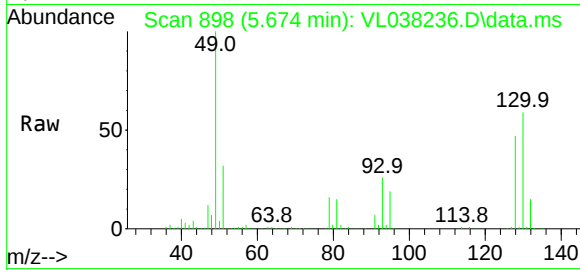
Quant Time: Dec 29 18:41:31 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec
QLast Update : Tue Dec 21 17:47:08 2021
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.674 min Scan# 896
Delta R.T. 0.006 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18

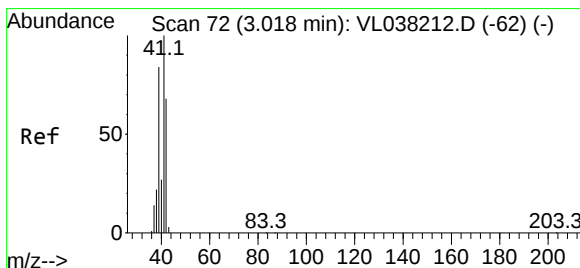
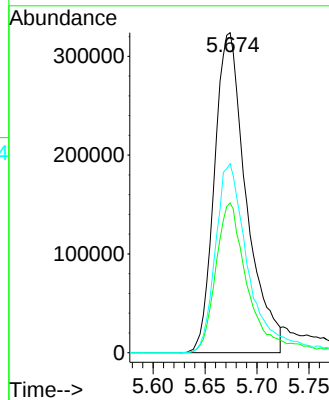
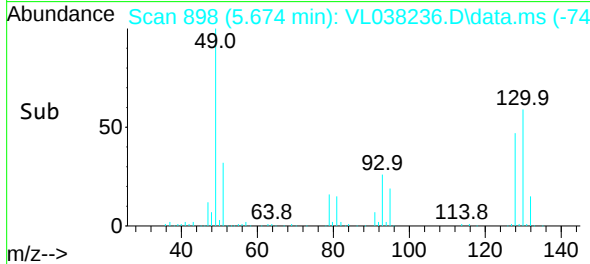
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



Tgt Ion: 49 Resp: 69120
Ion Ratio Lower Upper
49 100
128 49.1 26.9 80.6
130 63.8 32.3 96.9

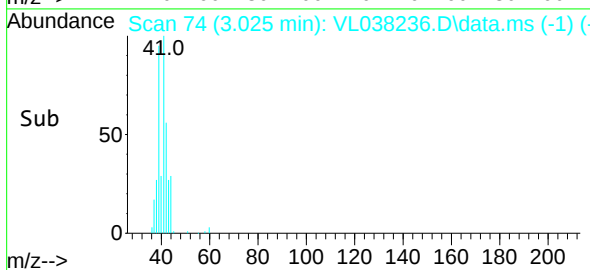
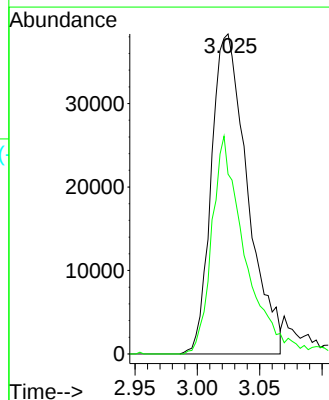
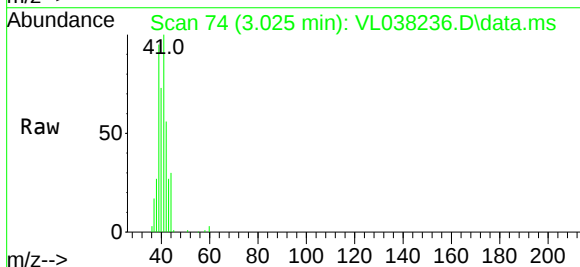
Manual Integrations
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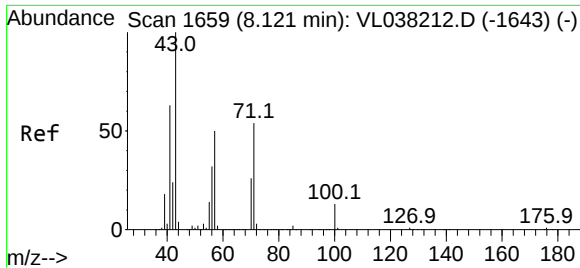
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#9
Propene
Concen: 1.535 ppbv
RT: 3.025 min Scan# 74
Delta R.T. 0.006 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18

Tgt Ion: 41 Resp: 77403
Ion Ratio Lower Upper
41 100
42 63.9 55.5 83.3





#10

Heptane

Concen: 0.303 ppbv

RT: 8.124 min Scan# 1

Delta R.T. 0.003 min

Lab File: VL038236.D

Acq: 29 Dec 2021 17:18

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

Tgt Ion: 43 Resp: 38820

Ion Ratio Lower Upper

43 100

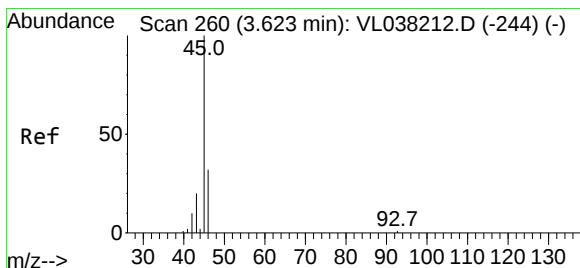
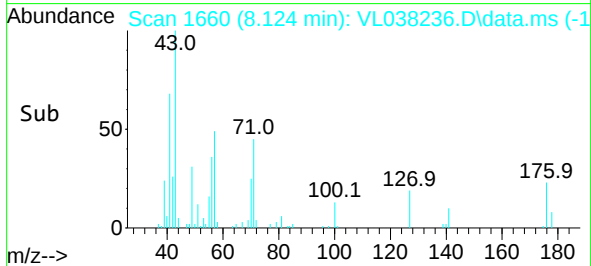
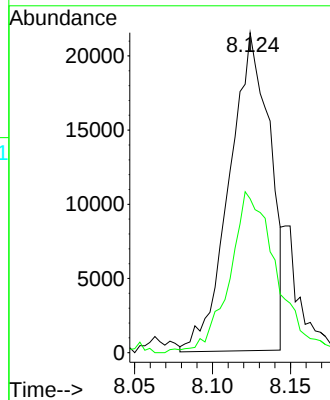
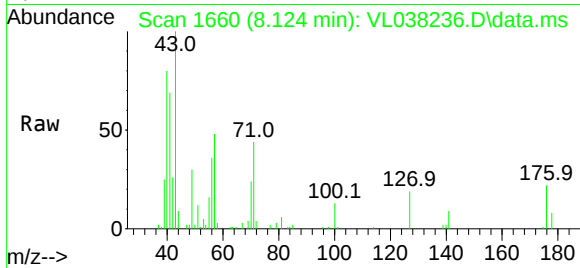
57 60.4 40.3 60.5

Manual Integrations

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#13

Ethanol

Concen: 21.665 ppbv m

RT: 3.616 min Scan# 258

Delta R.T. -0.007 min

Lab File: VL038236.D

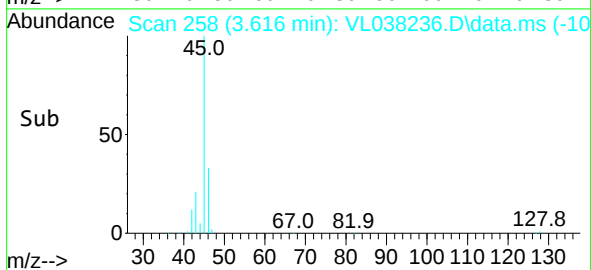
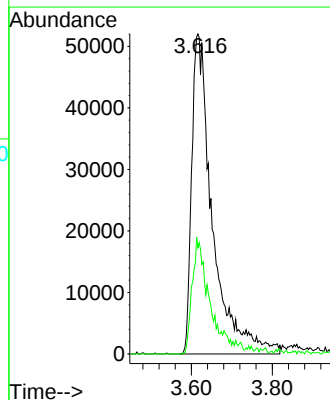
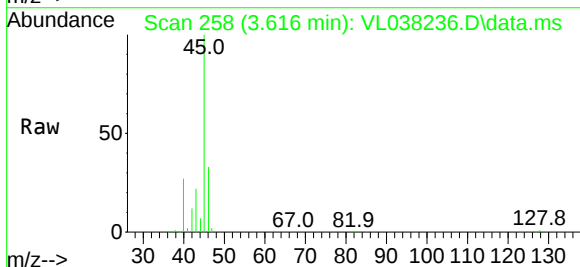
Acq: 29 Dec 2021 17:18

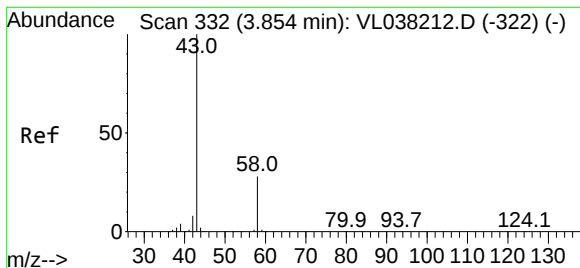
Tgt Ion: 45 Resp: 185241

Ion Ratio Lower Upper

45 100

46 0.0 0.0 0.0





#15

Acetone

Concen: 4.819 ppbv

RT: 3.861 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL038236.D

Acq: 29 Dec 2021 17:18

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

Tgt Ion: 43 Resp: 33428

Ion Ratio Lower Upper

43 100

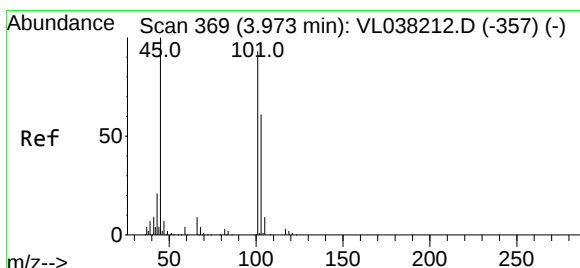
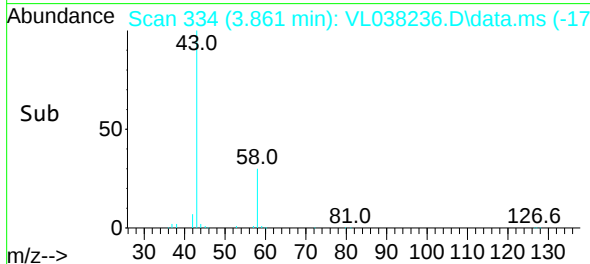
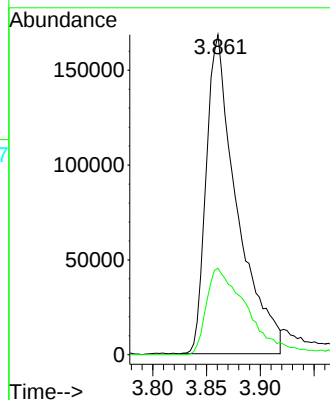
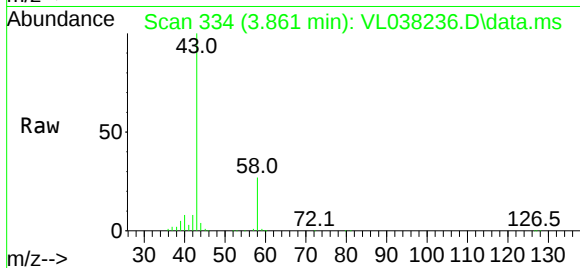
58 37.8 23.3 34.9

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 0.682 ppbv

RT: 3.983 min Scan# 372

Delta R.T. 0.009 min

Lab File: VL038236.D

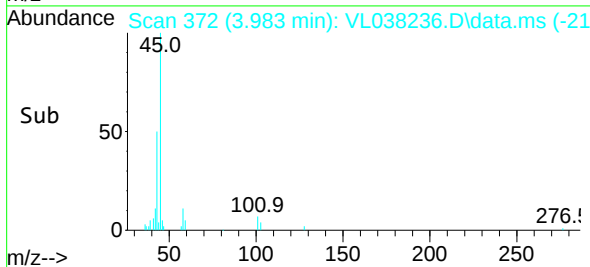
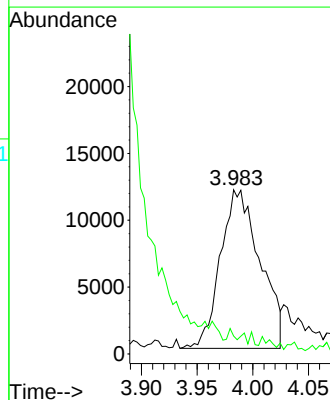
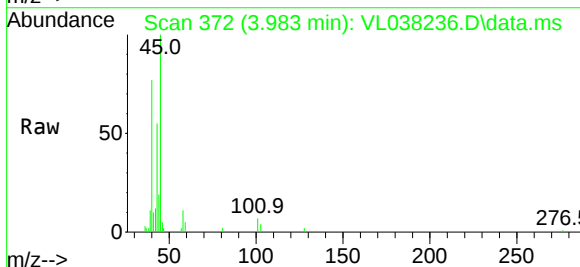
Acq: 29 Dec 2021 17:18

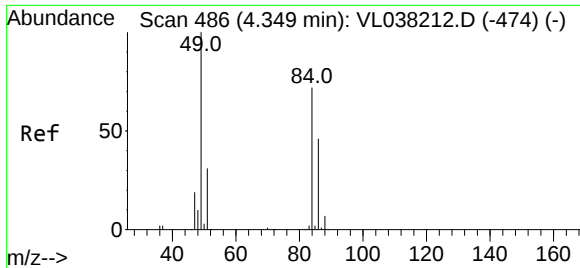
Tgt Ion: 45 Resp: 29495

Ion Ratio Lower Upper

45 100

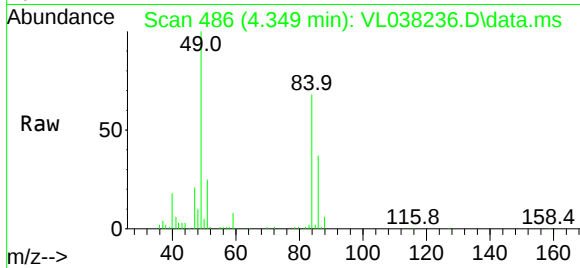
58 0.0 32.4 48.6





#20
Methylene Chloride
Concen: 1.850 ppbv
RT: 4.349 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18

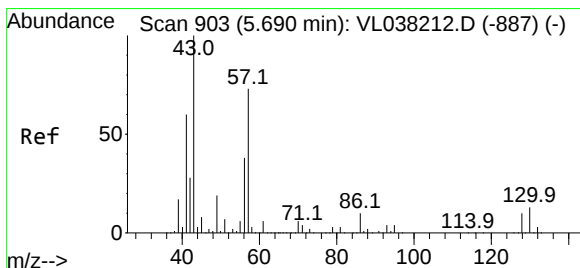
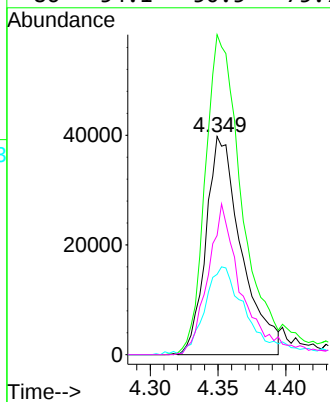
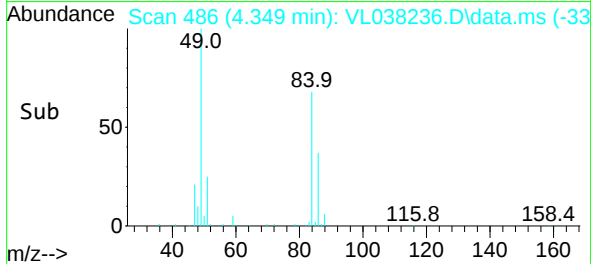
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



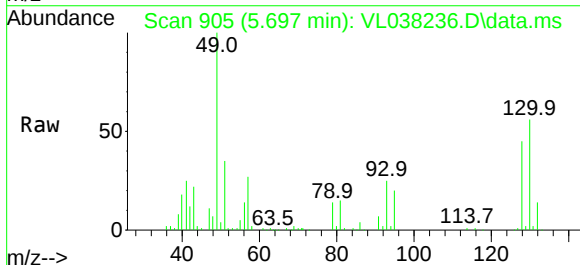
Tgt Ion: 84 Resp: 72448
Ion Ratio Lower Upper
84 100
49 145.7 110.6 166.0
51 36.3 34.2 51.2
86 54.1 50.5 75.7

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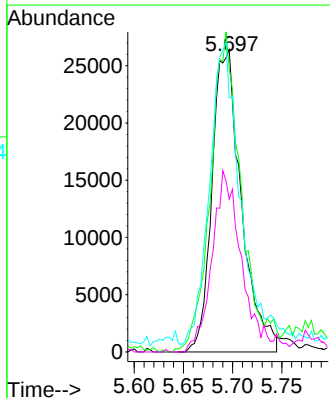
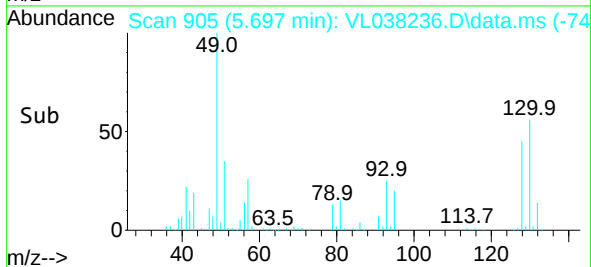
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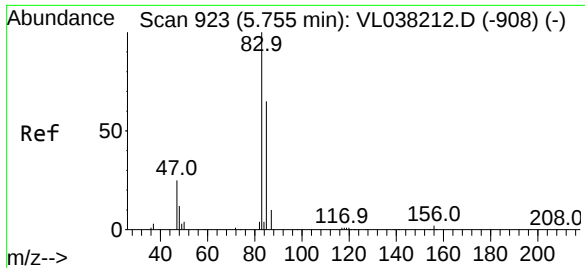


#26
Hexane
Concen: 0.580 ppbv m
RT: 5.697 min Scan# 905
Delta R.T. 0.006 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18



Tgt Ion: 57 Resp: 54682
Ion Ratio Lower Upper
57 100
41 112.6 69.0 103.6#
43 105.0 171.2 256.8#
56 61.0 41.5 62.3





#29

Chloroform

Concen: 0.909 ppbv

RT: 5.751 min Scan# 91

Delta R.T. -0.003 min

Lab File: VL038236.D

Acq: 29 Dec 2021 17:18

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

Tgt Ion: 83 Resp: 127258

Ion Ratio Lower Upper

83 100

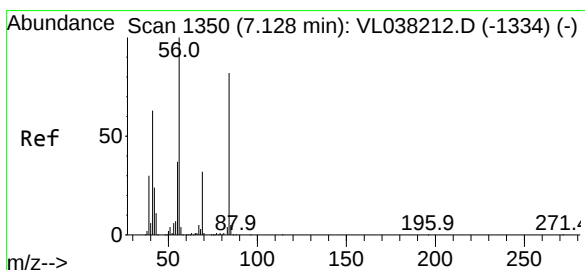
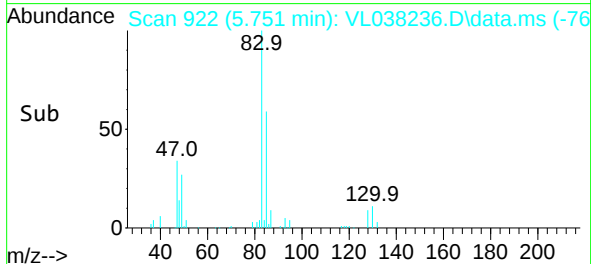
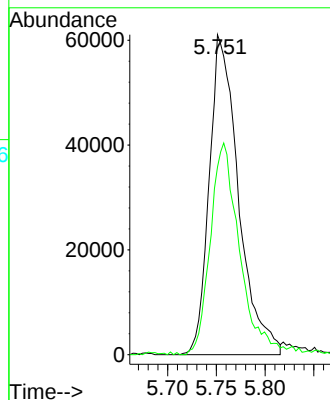
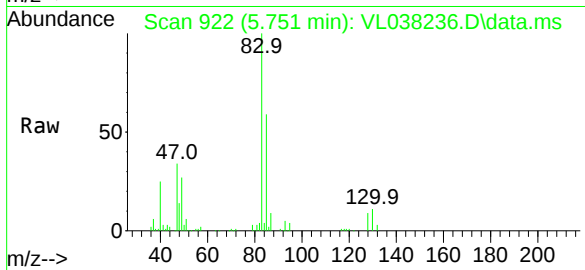
85 58.6 52.2 78.4

Manual Integrations

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Supervised By :Semsettin Yesilyurt 01/02/2022



#30

Cyclohexane

Concen: 0.122 ppbv m

RT: 7.131 min Scan# 1351

Delta R.T. 0.003 min

Lab File: VL038236.D

Acq: 29 Dec 2021 17:18

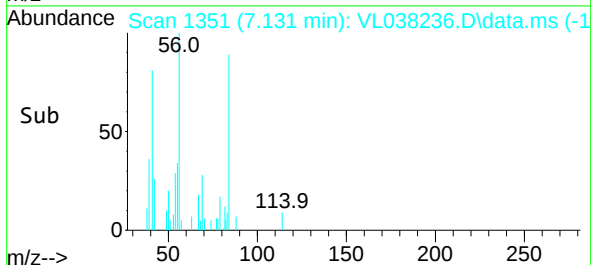
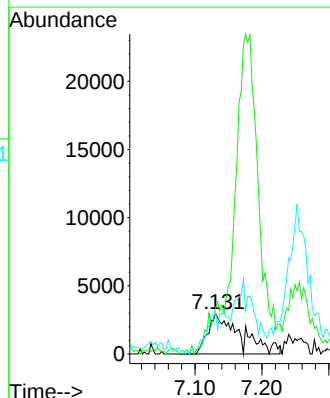
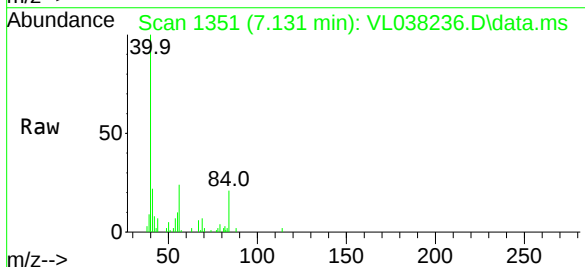
Tgt Ion: 84 Resp: 10193

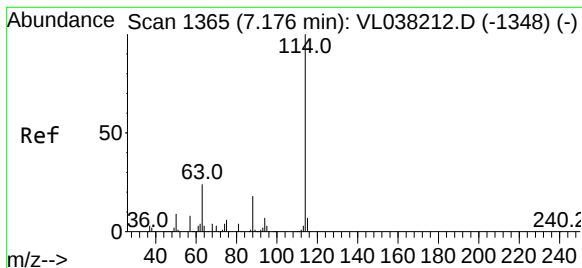
Ion Ratio Lower Upper

84 100

56 0.0 105.2 157.8#

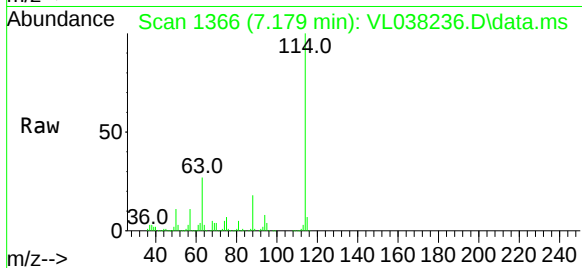
41 0.0 63.2 94.8#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.179 min Scan# 114
Delta R.T. 0.003 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18

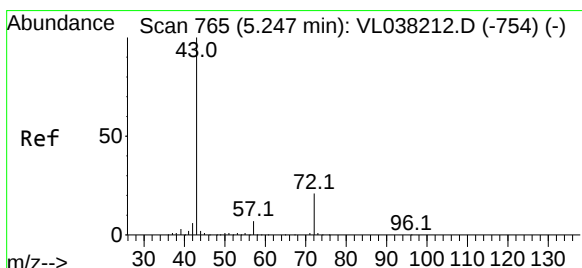
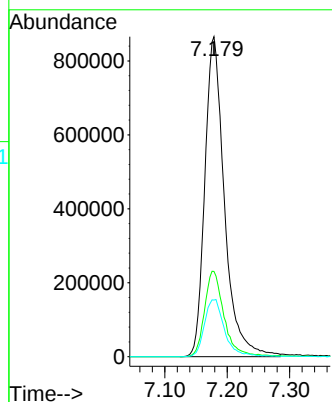
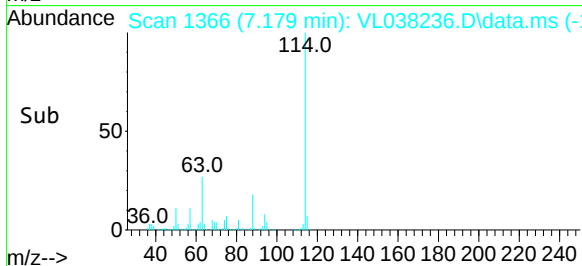
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



Tgt Ion:114 Resp: 1894838
Ion Ratio Lower Upper
114 100
63 26.9 19.7 29.5
88 18.6 14.3 21.5

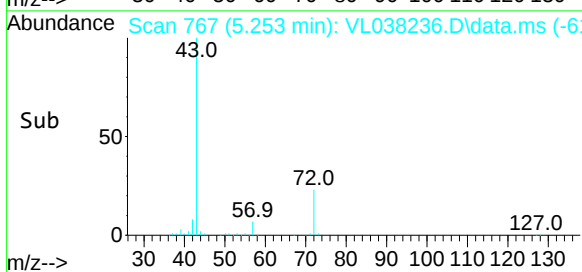
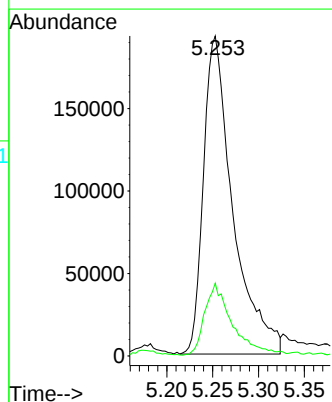
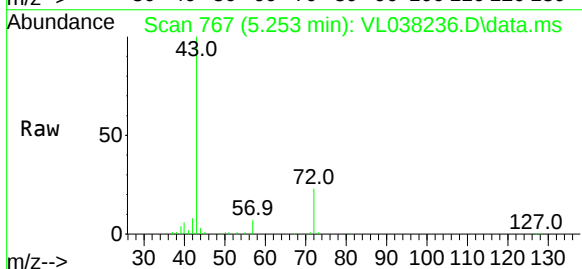
Manual Integrations
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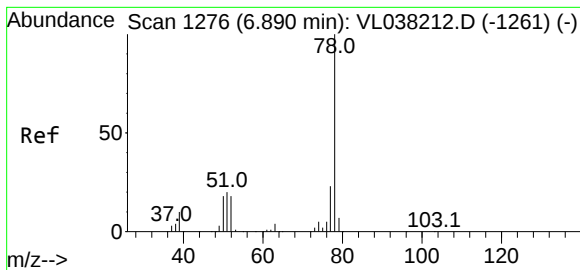
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#34
2-Butanone
Concen: 7.564 ppbv
RT: 5.253 min Scan# 767
Delta R.T. 0.006 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18

Tgt Ion: 43 Resp: 430809
Ion Ratio Lower Upper
43 100
72 22.7 18.3 27.5





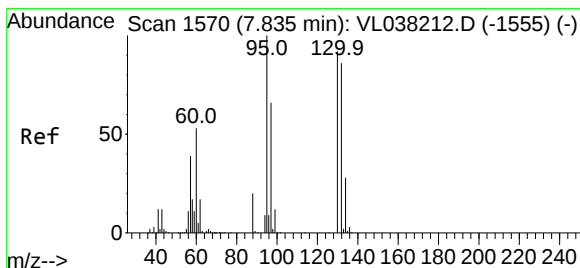
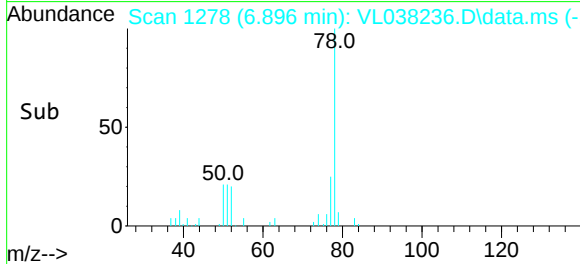
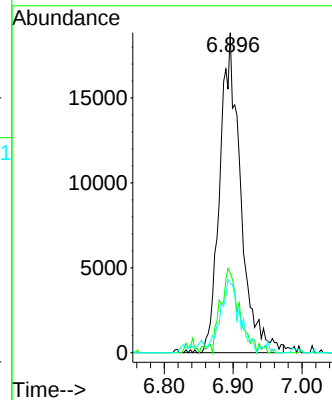
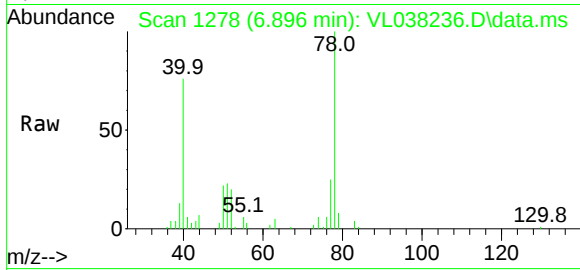
#36
Benzene
Concen: 0.224 ppbv m
RT: 6.896 min Scan# 1276
Delta R.T. 0.006 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tgt Ion: 78 Resp: 39508
Ion Ratio Lower Upper
78 100
77 24.9 18.2 27.4
50 21.6 14.3 21.5

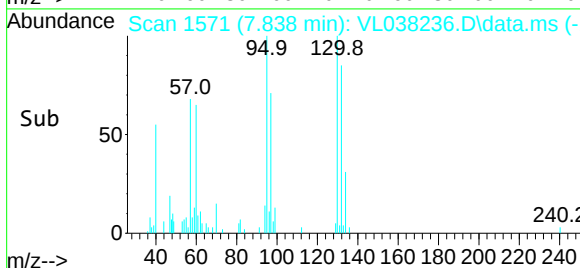
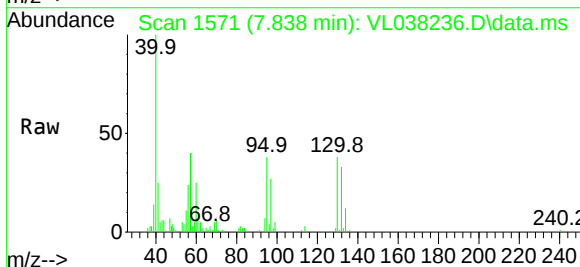
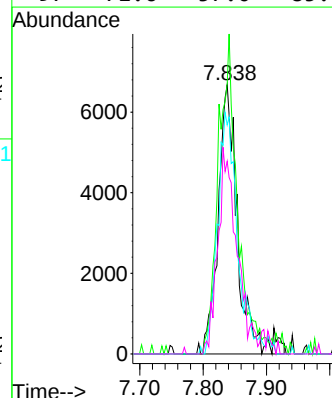
Manual Integrations
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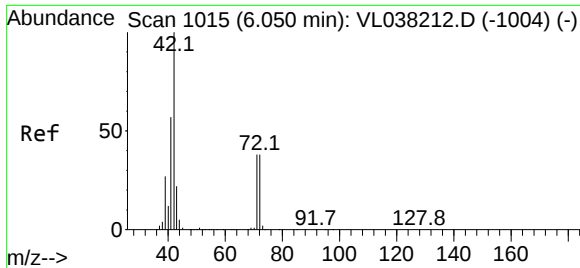
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#38
Trichloroethene
Concen: 0.214 ppbv m
RT: 7.838 min Scan# 1571
Delta R.T. 0.003 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18

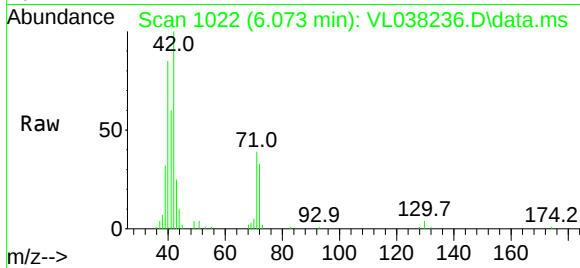
Tgt Ion:130 Resp: 14364
Ion Ratio Lower Upper
130 100
95 100.2 87.0 130.4
132 85.0 75.1 112.7
97 71.6 57.0 85.4





#41
Tetrahydrofuran
Concen: 1.267 ppbv
RT: 6.073 min Scan# 1015
Delta R.T. 0.022 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18

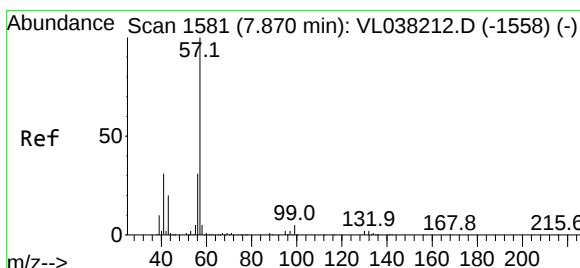
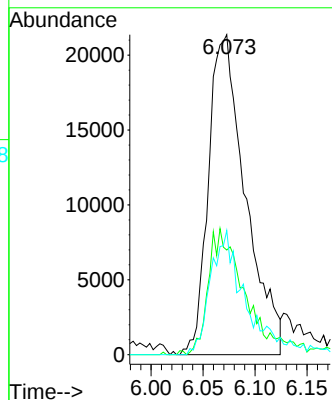
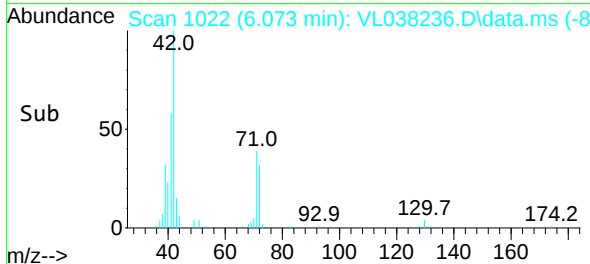
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



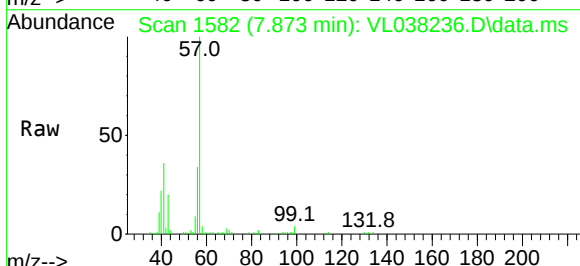
Tgt Ion: 42 Resp: 5284
Ion Ratio Lower Upper
42 100
72 39.4 31.4 47.0
71 37.7 30.0 45.0

Manual Integrations
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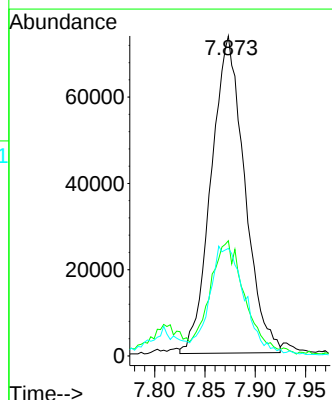
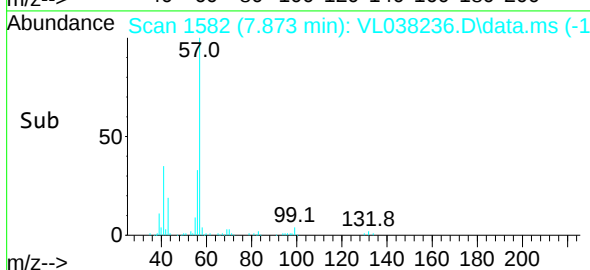
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

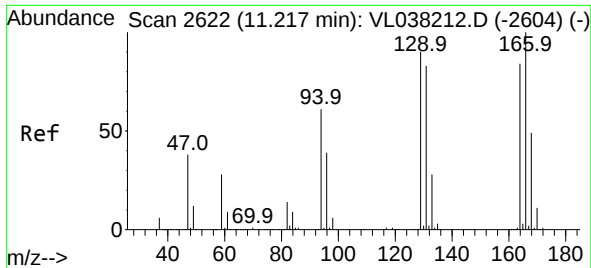


#44
2,2,4-Trimethylpentane
Concen: 0.566 ppbv
RT: 7.873 min Scan# 1582
Delta R.T. 0.003 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18



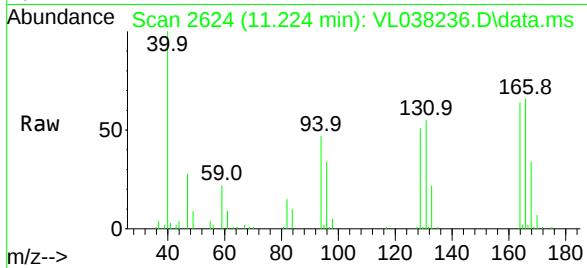
Tgt Ion: 57 Resp: 169921
Ion Ratio Lower Upper
57 100
41 38.7 24.9 37.3#
56 38.7 24.8 37.2#





#52
Tetrachloroethene
Concen: 0.347 ppbv
RT: 11.224 min Scan# 2184
Delta R.T. 0.006 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18

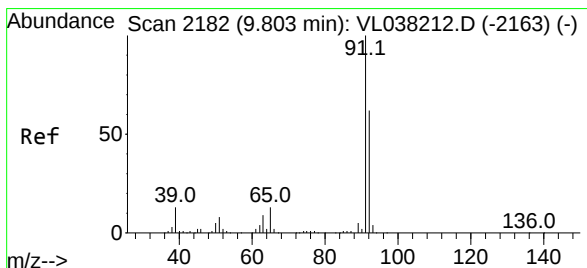
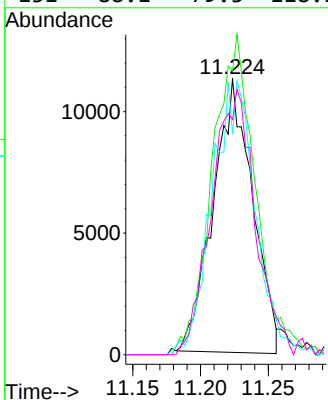
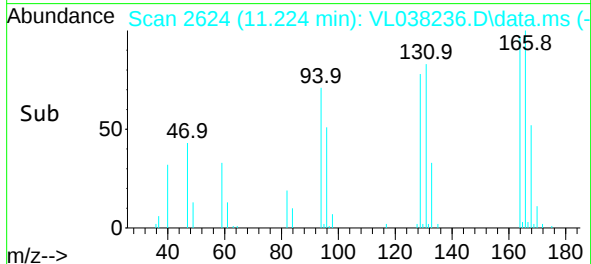
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



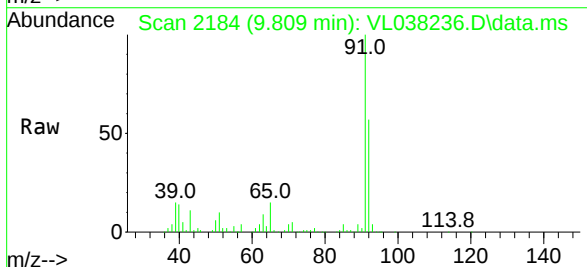
Tgt Ion:164 Resp: 22670
Ion Ratio Lower Upper
164 100
166 101.5 95.6 143.4
129 80.3 85.8 128.8
131 88.1 79.3 118.9

Manual Integrations
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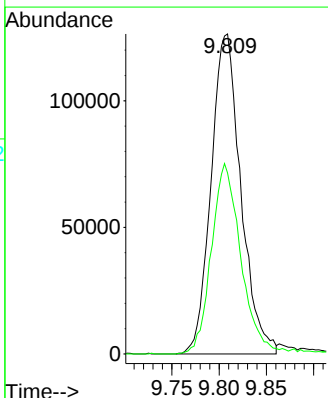
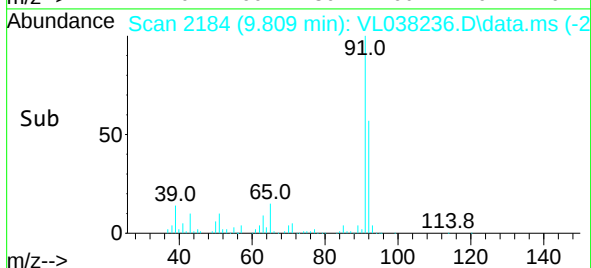
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

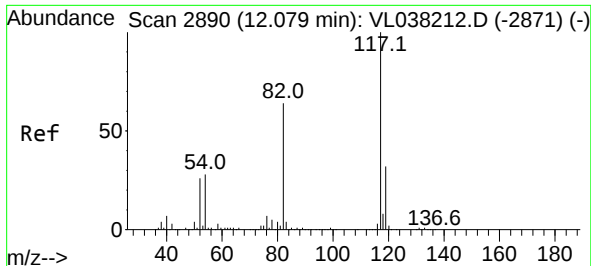


#53
Toluene
Concen: 1.358 ppbv
RT: 9.809 min Scan# 2184
Delta R.T. 0.006 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18



Tgt Ion: 91 Resp: 276888
Ion Ratio Lower Upper
91 100
92 60.0 48.9 73.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.085 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL038236.D

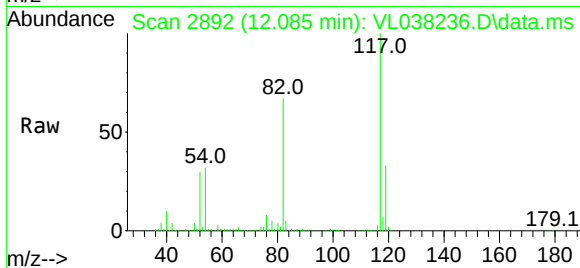
Acq: 29 Dec 2021 17:18

Instrument :

MSVOA_L

ClientSampleId :

SV3DL



Tgt Ion:117 Resp: 162026

Ion Ratio Lower Upper

117 100

82 72.1 53.3 79.9

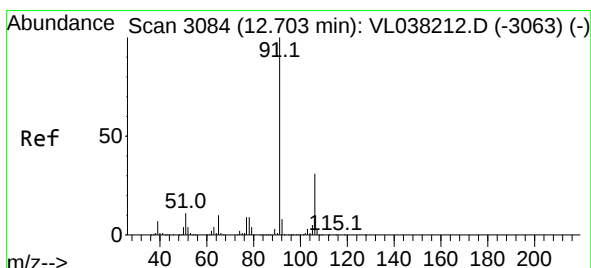
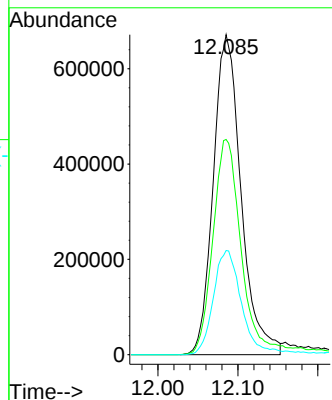
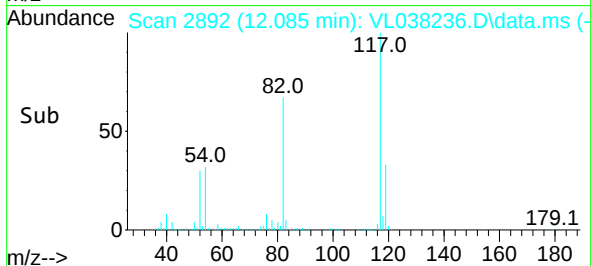
119 34.5 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022



#58

Ethyl Benzene

Concen: 0.325 ppbv

RT: 12.712 min Scan# 3087

Delta R.T. 0.009 min

Lab File: VL038236.D

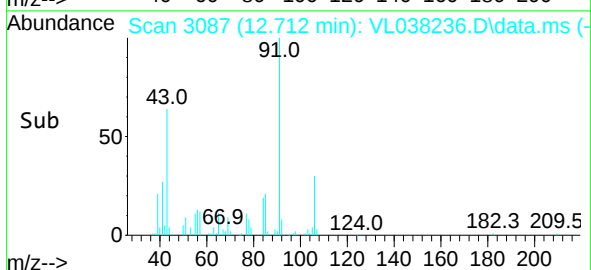
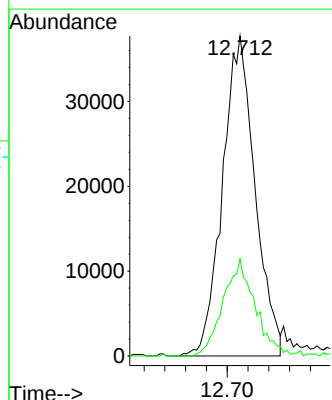
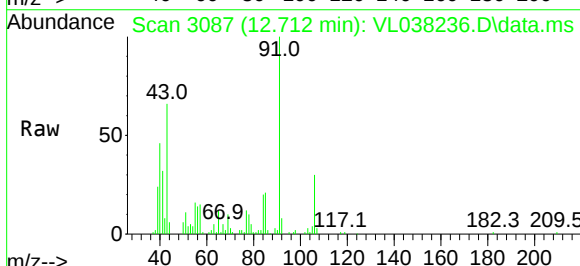
Acq: 29 Dec 2021 17:18

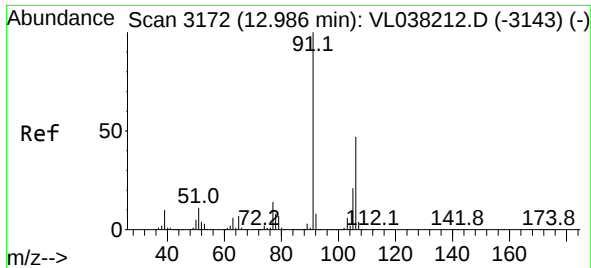
Tgt Ion: 91 Resp: 81805

Ion Ratio Lower Upper

91 100

106 30.3 25.0 37.4





#59

m/p-Xylene

Concen: 1.100 ppbv m

RT: 12.963 min Scan# 3172

Delta R.T. -0.023 min

Lab File: VL038236.D

Acq: 29 Dec 2021 17:18

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

Tgt Ion: 91 Resp: 23636

Ion Ratio Lower Upper

91 100

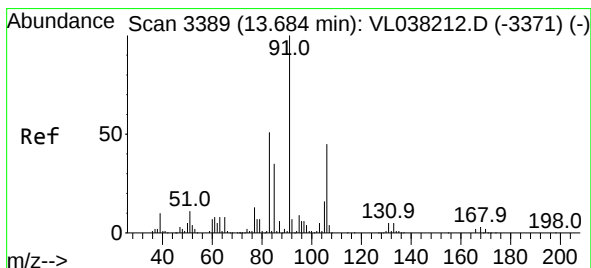
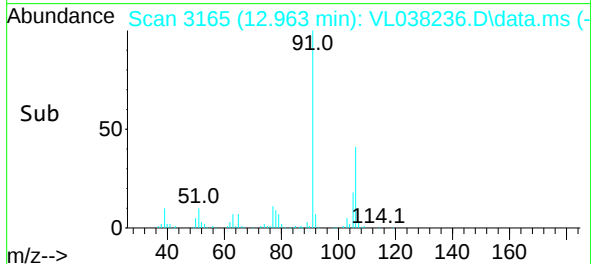
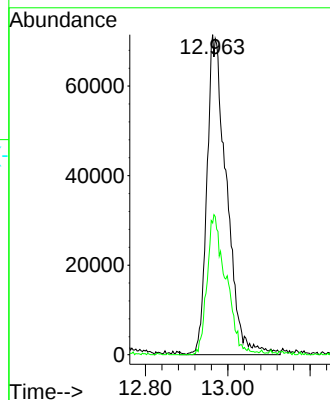
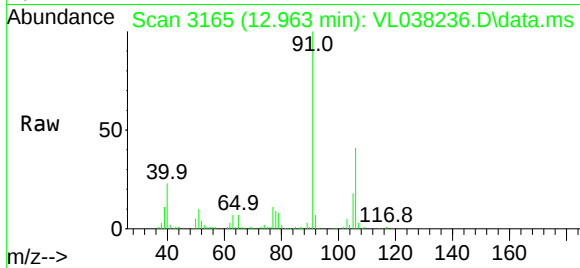
106 42.2 36.9 55.3

Manual Integrations

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Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022



#60

o-Xylene

Concen: 0.382 ppbv m

RT: 13.687 min Scan# 3390

Delta R.T. 0.003 min

Lab File: VL038236.D

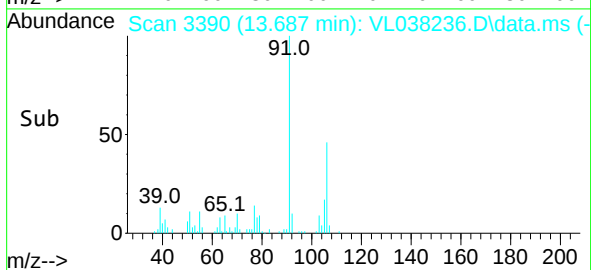
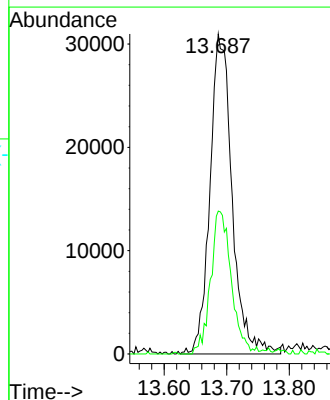
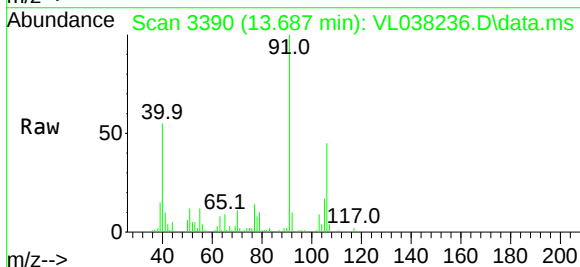
Acq: 29 Dec 2021 17:18

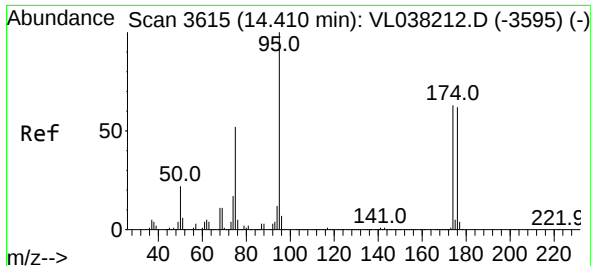
Tgt Ion: 91 Resp: 76030

Ion Ratio Lower Upper

91 100

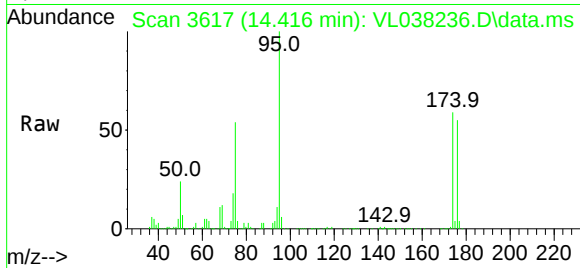
106 42.4 23.5 70.5





#68
1-Bromo-4-Fluorobenzene
Concen: 10.317 ppbv
RT: 14.416 min Scan# 3617
Delta R.T. 0.006 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18

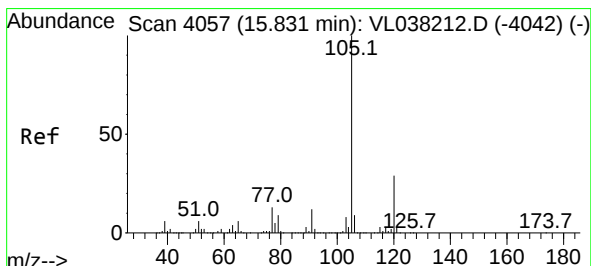
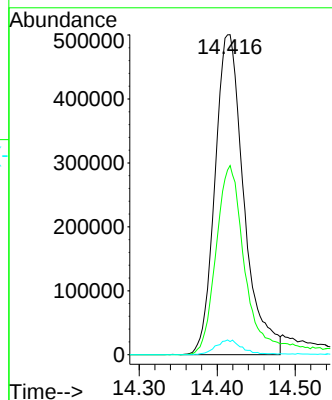
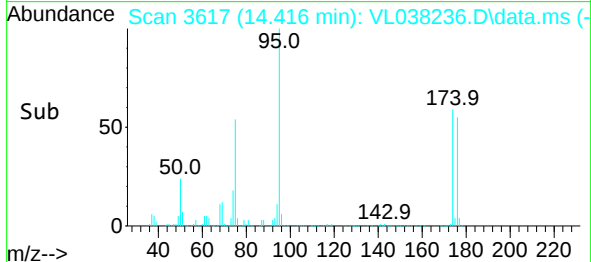
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



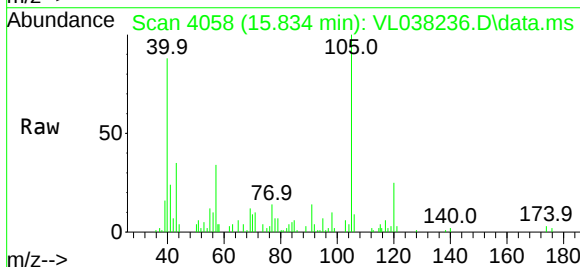
Tgt Ion: 95 Resp: 128810
Ion Ratio Lower Upper
95 100
174 63.5 54.6 81.8
175 4.3 4.1 6.1

Manual Integrations
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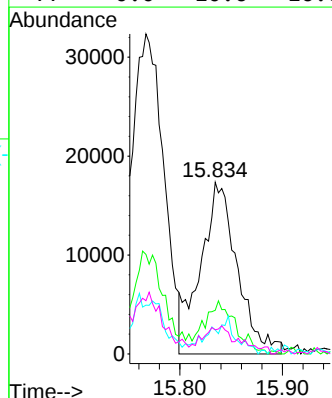
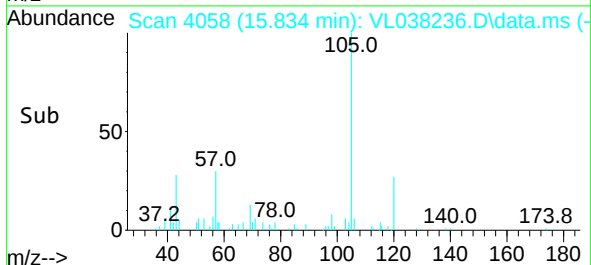
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

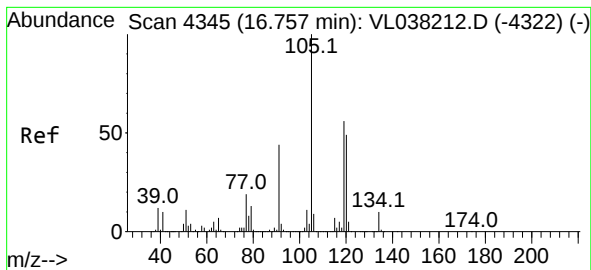


#72
4-Ethyltoluene
Concen: 0.188 ppbv m
RT: 15.834 min Scan# 4058
Delta R.T. 0.003 min
Lab File: VL038236.D
Acq: 29 Dec 2021 17:18



Tgt Ion:105 Resp: 43226
Ion Ratio Lower Upper
105 100
120 0.0 24.3 36.5#
91 0.0 9.8 14.6#
77 0.0 10.6 16.0#





#74

1,2,4-Trimethylbenzene

Concen: 0.360 ppbv m

RT: 16.757 min Scan# 4345

Delta R.T. -0.000 min

Lab File: VL038236.D

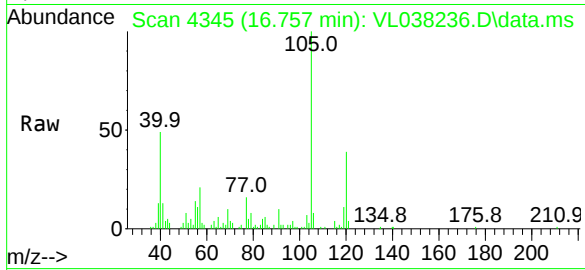
Acq: 29 Dec 2021 17:18

Instrument :

MSVOA_L

ClientSampleId :

SV3DL



Tgt Ion:105 Resp: 7760

Ion Ratio Lower Upper

105 100

120 38.7 39.4 59.2

91 10.1 35.0 52.4

77 15.6 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022

