

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110121\
 Data File : VL037946.D
 Acq On : 1 Nov 2021 20:16
 Operator : SY/AP
 Sample : M4426-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/05/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Quant Time: Nov 02 06:07:41 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110121AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LTue Nov 02 06:07:41 2021

QLast Update : Tue Nov 02 05:54:07 2021

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.658	49	1351953	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.163	114	3920088	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.066	117	3362886	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.397 95 2480180 10.146 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.050	85	37483	0.197	ppbv	93
3) Chlorodifluoromethane	2.976	51	97682m	0.388	ppbv	
4) Chloromethane	3.144	50	45604m	0.477	ppbv	
9) Propene	3.021	41	478022	5.297	ppbv #	62
10) Heptane	8.108	43	28844m	0.137	ppbv	
11) Trichlorofluoromethane	3.944	101	37637	0.198	ppbv	99
13) Ethanol	3.597	45	5783226	635.284	ppbv	90
15) Acetone	3.841	43	3593324	32.165	ppbv	97
19) Isopropyl Alcohol	3.963	45	1725076	24.147	ppbv #	93
20) Methylene Chloride	4.336	84	113484m	1.850	ppbv	
25) Ethyl Acetate	5.664	43	981956	2.959	ppbv #	90
29) Chloroform	5.742	83	29623m	0.126	ppbv	
30) Cyclohexane	7.124	84	54236m	0.404	ppbv	
34) 2-Butanone	5.237	43	206677	1.423	ppbv	95
35) Carbon Tetrachloride	7.012	117	14044m	0.059	ppbv	
36) Benzene	6.877	78	70218	0.220	ppbv	97
38) Trichloroethene	7.822	130	11573m	0.087	ppbv	
50) 4-Methyl-2-Pentanone	8.738	43	74652m	0.391	ppbv	
52) Tetrachloroethene	11.204	164	51761m	0.427	ppbv	
53) Toluene	9.793	91	729857	2.133	ppbv	98
58) Ethyl Benzene	12.693	91	121530	0.296	ppbv	89
59) m/p-Xylene	12.950	91	461048	1.261	ppbv	96
60) o-Xylene	13.677	91	169032	0.490	ppbv	94
61) Styrene	13.507	104	44148m	0.279	ppbv	
69) p-Isopropyltoluene	17.629	119	76836m	0.161	ppbv	
74) 1,2,4-Trimethylbenzene	16.744	105	73137	0.189	ppbv #	74

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

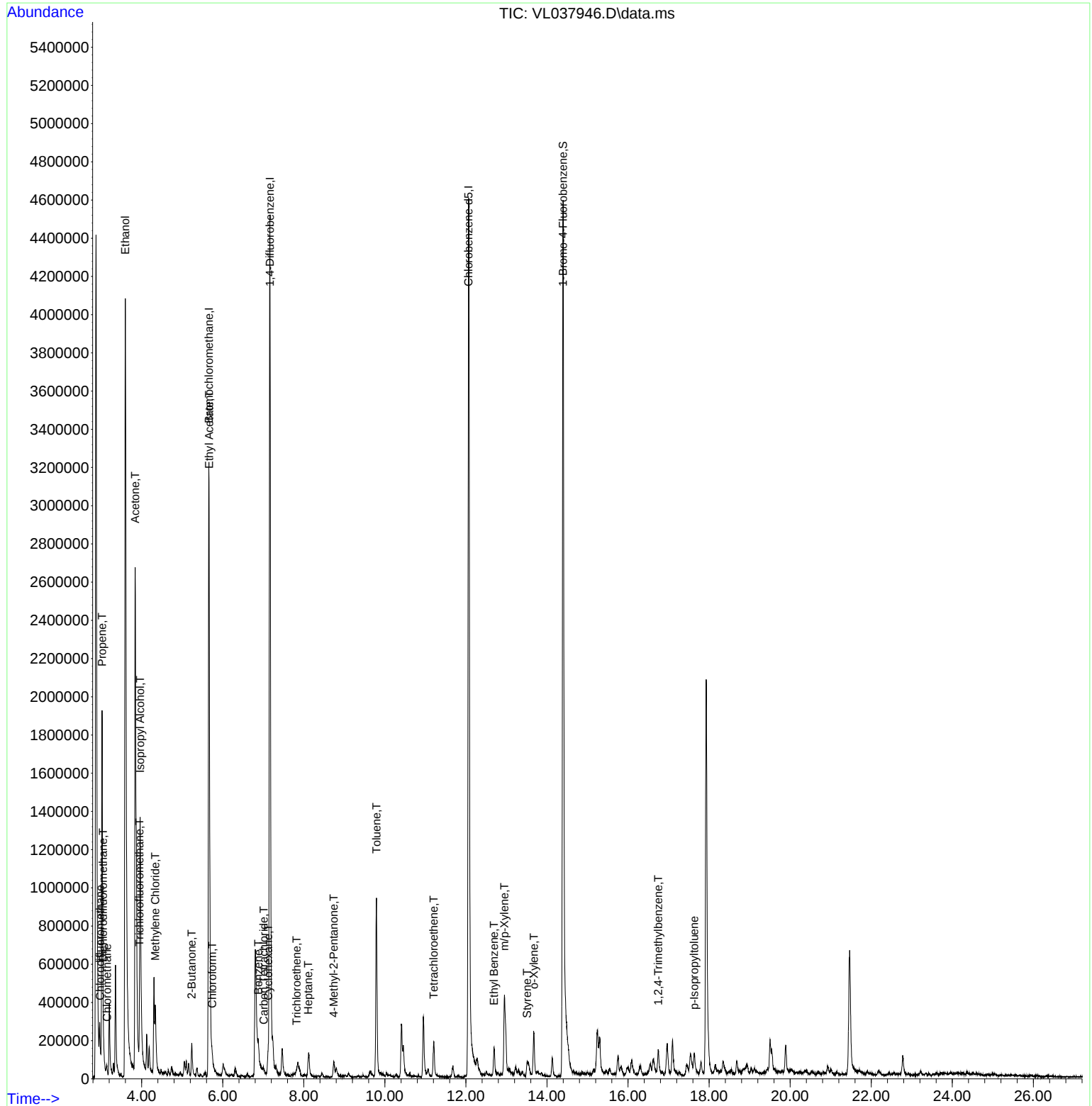
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110121\
Data File : VL037946.D
Acq On : 1 Nov 2021 20:16
Operator : SY/AP
Sample : M4426-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

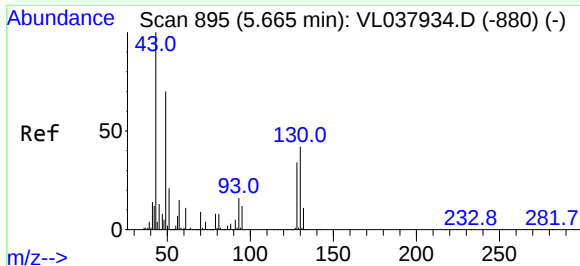
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Nov 02 06:07:41 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov
QLast Update : Tue Nov 02 05:54:07 2021
Response via : Initial Calibration

Manual Integrations
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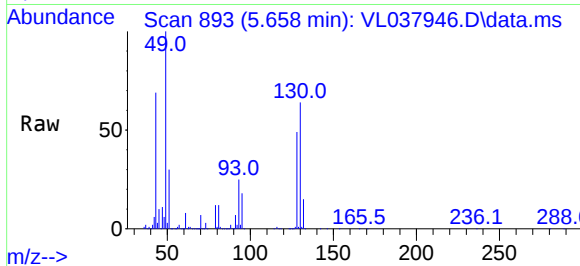
Reviewed By : Semsettin Yesilyurt 11/05/2021
Supervised By : Mahesh Dadoda 11/10/2021





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.658 min Scan# 895
Delta R.T. -0.007 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

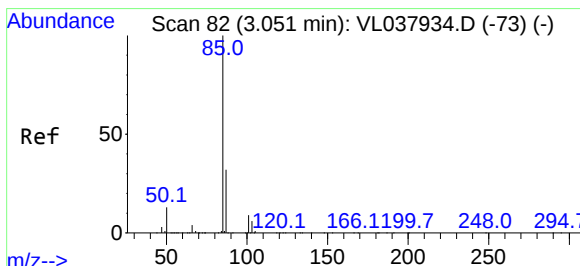
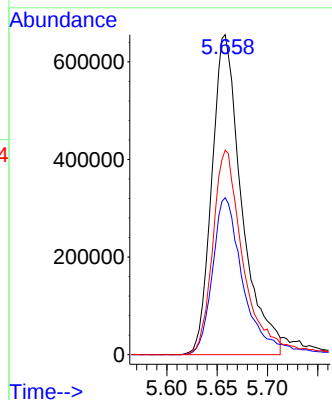
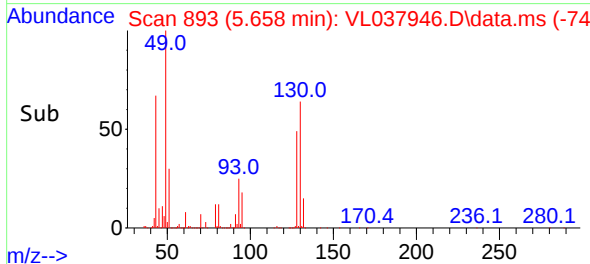
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



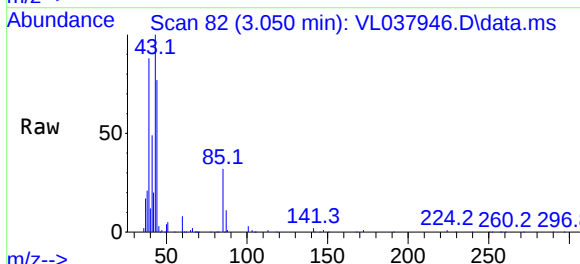
Tgt Ion: 49 Resp: 135195
Ion Ratio Lower Upper
49 100
128 52.2 27.0 81.0
130 66.9 33.4 100.2

Manual Integrations
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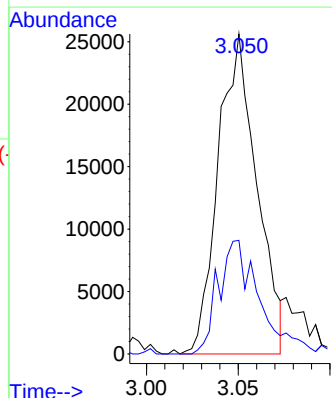
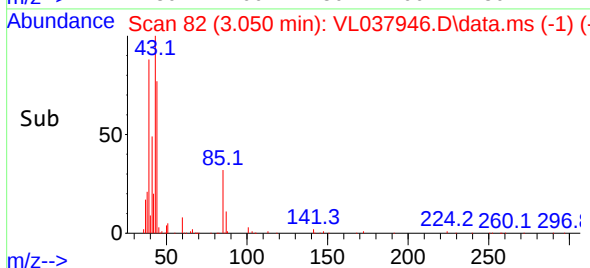
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021

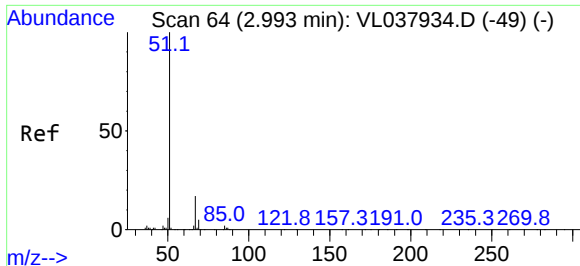


#2
Dichlorodifluoromethane
Concen: 0.197 ppbv
RT: 3.050 min Scan# 82
Delta R.T. -0.000 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16



Tgt Ion: 85 Resp: 37483
Ion Ratio Lower Upper
85 100
87 35.5 25.3 37.9





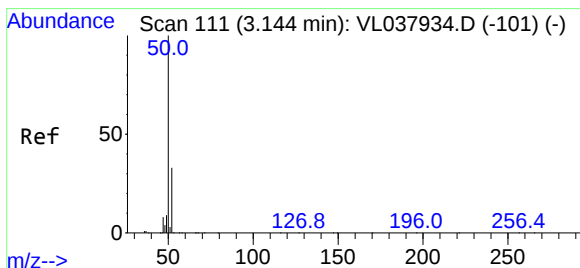
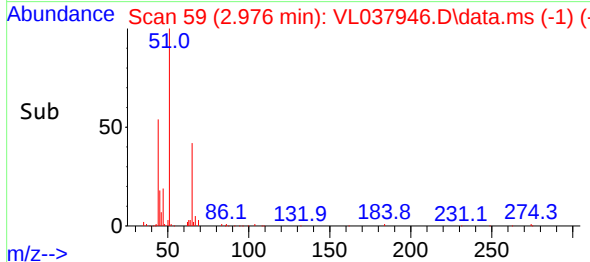
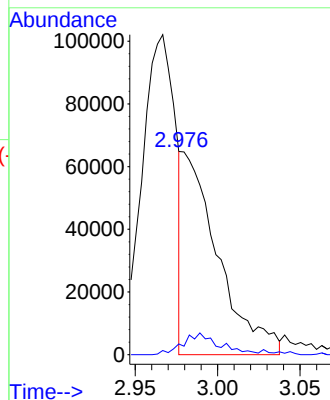
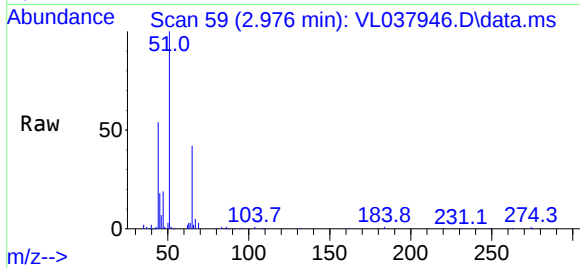
#3
Chlorodifluoromethane
Concen: 0.388 ppbv m
RT: 2.976 min Scan# 51
Delta R.T. -0.016 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 51 Resp: 9768
Ion Ratio Lower Upper
51 100
67 12.1 13.4 20.0

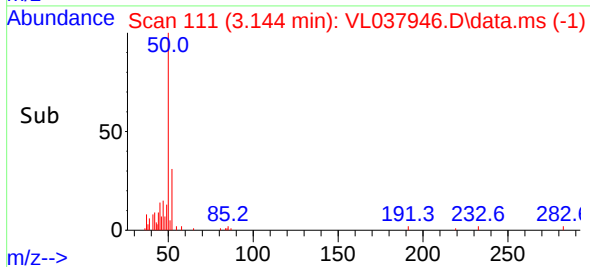
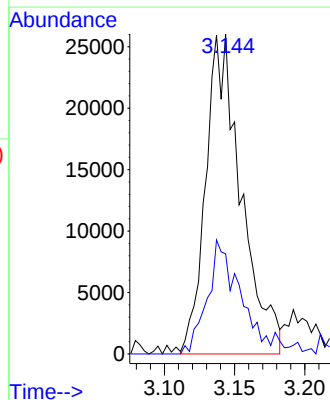
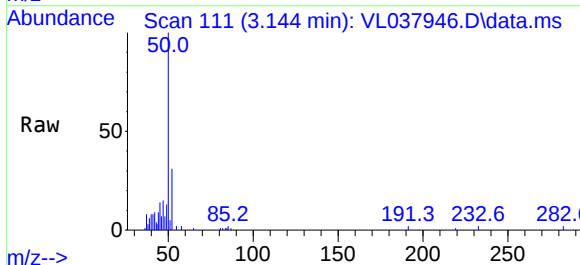
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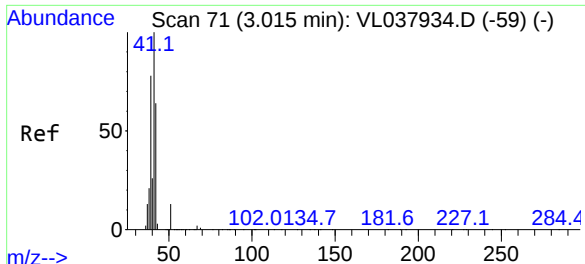
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#4
Chloromethane
Concen: 0.477 ppbv m
RT: 3.144 min Scan# 111
Delta R.T. -0.000 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

Tgt Ion: 50 Resp: 45604
Ion Ratio Lower Upper
50 100
52 31.3 26.3 39.5





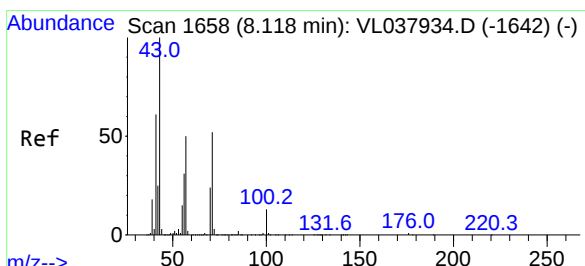
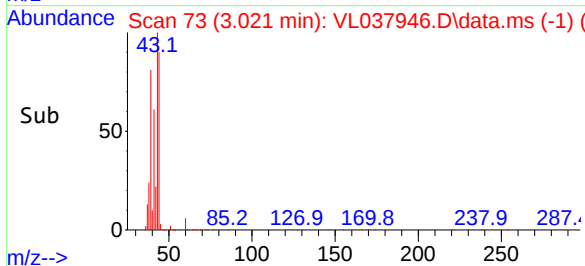
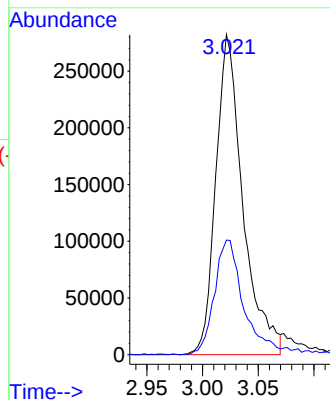
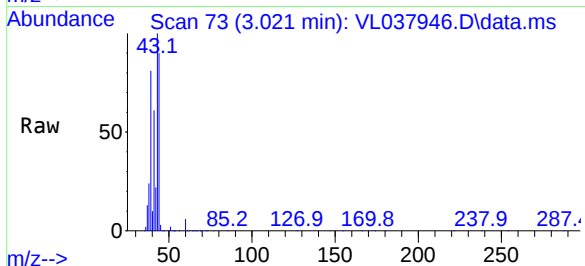
#9
Propene
Concen: 5.297 ppbv
RT: 3.021 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 41 Resp: 47802
Ion Ratio Lower Upper
41 100
42 40.6 57.6 86.4

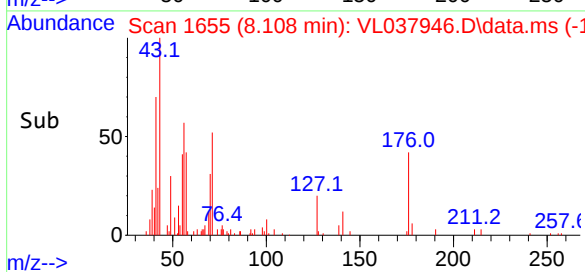
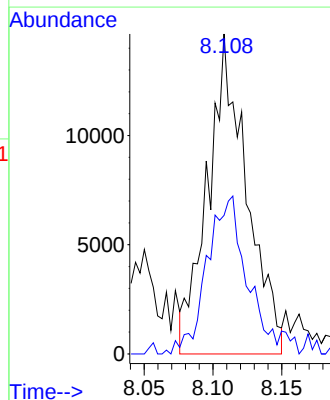
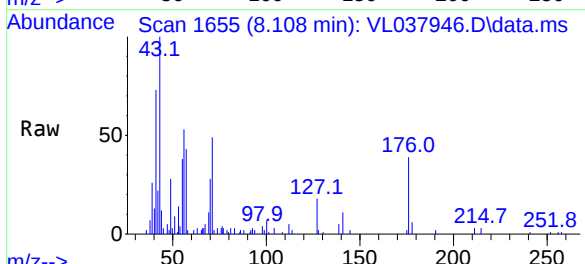
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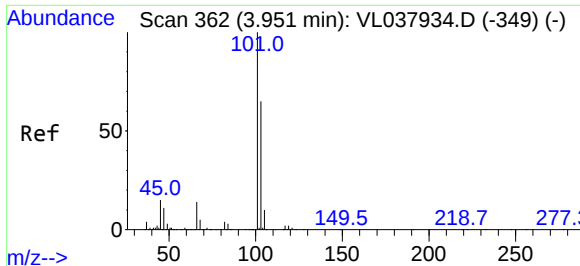
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#10
Heptane
Concen: 0.137 ppbv m
RT: 8.108 min Scan# 1655
Delta R.T. -0.010 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

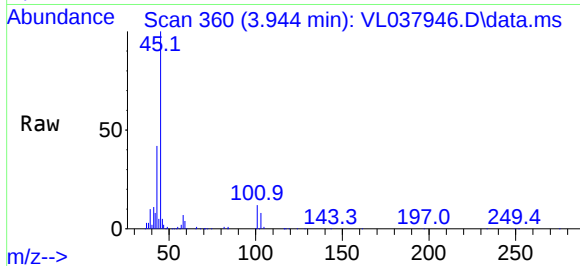
Tgt Ion: 43 Resp: 28844
Ion Ratio Lower Upper
43 100
57 54.2 39.8 59.8





#11
Trichlorofluoromethane
Concen: 0.198 ppbv
RT: 3.944 min Scan# 30
Delta R.T. -0.007 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

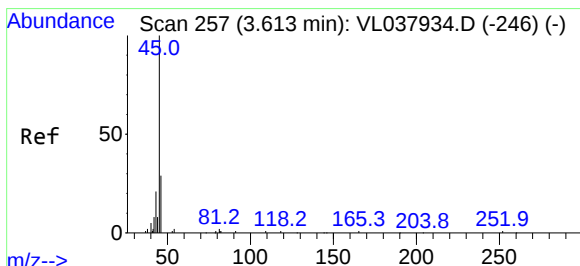
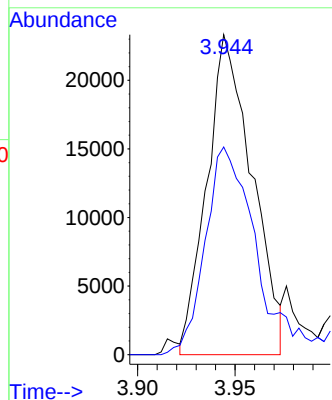
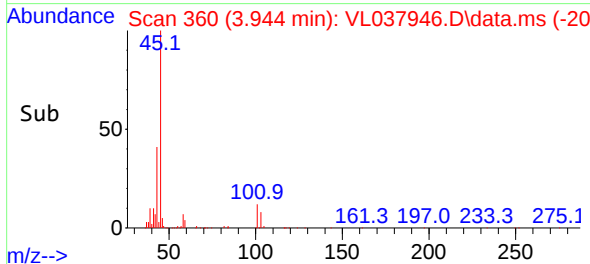
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



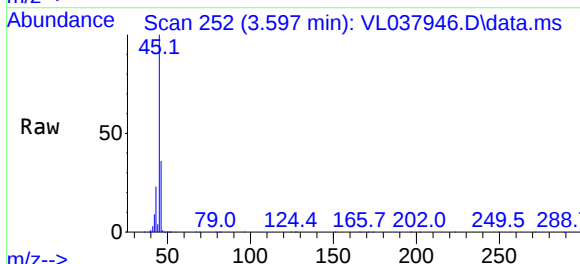
Tgt Ion:101 Resp: 3763
Ion Ratio Lower Upper
101 100
103 64.2 52.0 78.0

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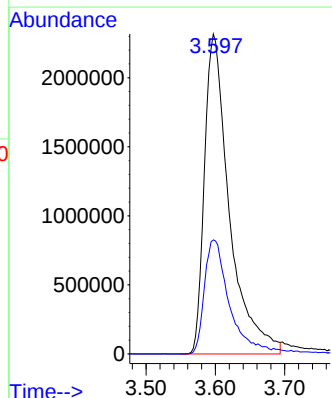
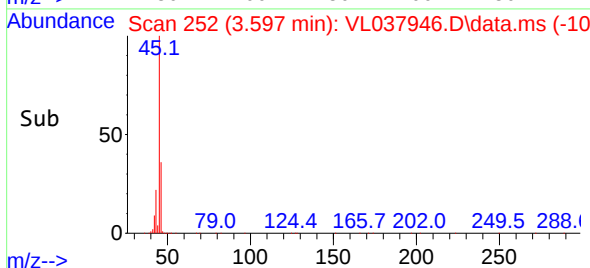
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021

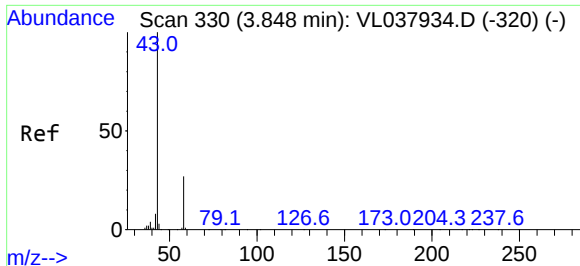


#13
Ethanol
Concen: 635.284 ppbv
RT: 3.597 min Scan# 252
Delta R.T. -0.016 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16



Tgt Ion: 45 Resp: 5783226
Ion Ratio Lower Upper
45 100
46 37.3 17.4 69.8





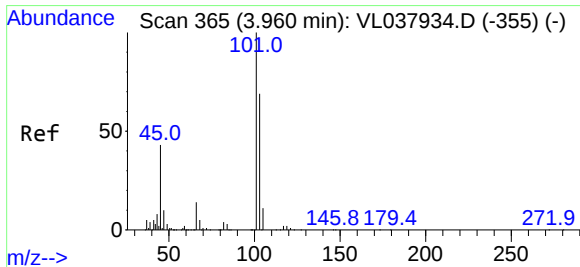
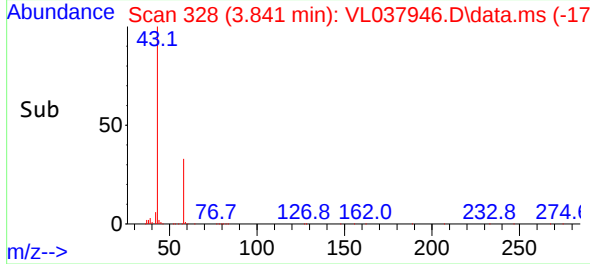
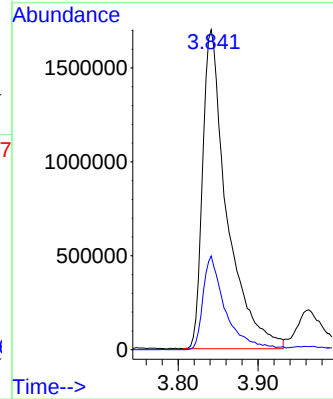
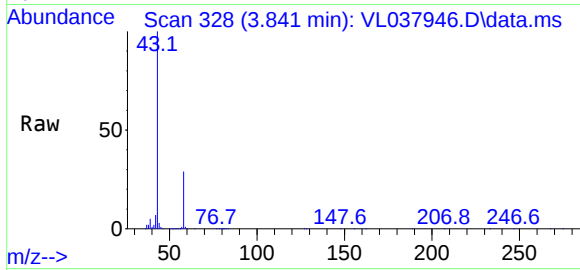
#15
Acetone
Concen: 32.165 ppbv
RT: 3.841 min Scan# 31
Delta R.T. -0.007 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 3593324
Ion Ratio Lower Upper
43 100
58 27.2 23.3 34.9

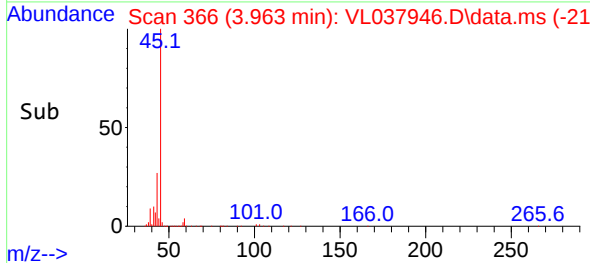
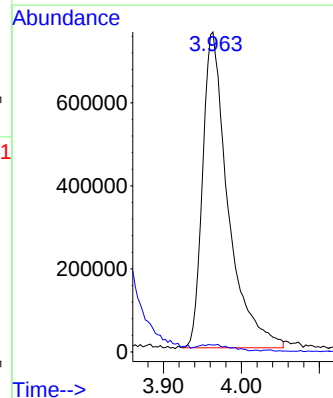
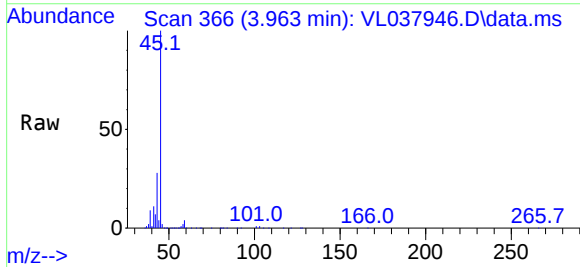
Manual Integrations
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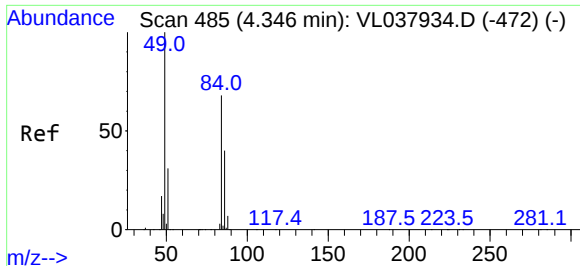
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#19
Isopropyl Alcohol
Concen: 24.147 ppbv
RT: 3.963 min Scan# 366
Delta R.T. 0.003 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

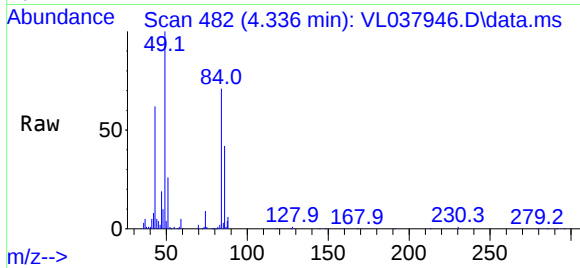
Tgt Ion: 45 Resp: 1725076
Ion Ratio Lower Upper
45 100
58 2.6 4.0 6.0#





#20
Methylene Chloride
Concen: 1.850 ppbv m
RT: 4.336 min Scan# 411
Delta R.T. -0.010 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

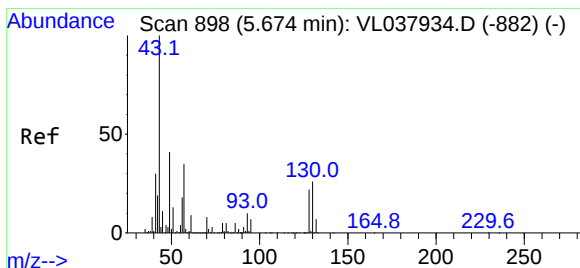
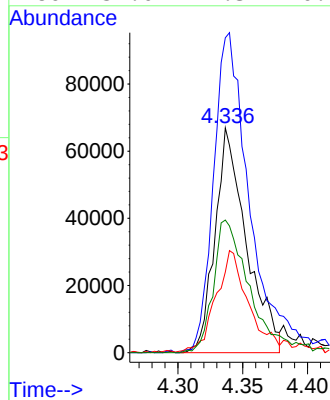
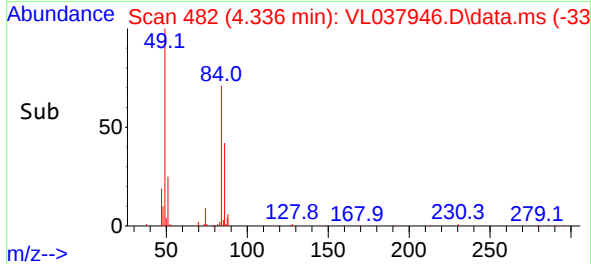
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 84 Resp: 113484
Ion Ratio Lower Upper
84 100
49 140.0 117.5 176.3
51 35.9 35.9 53.9
86 59.0 47.3 70.9

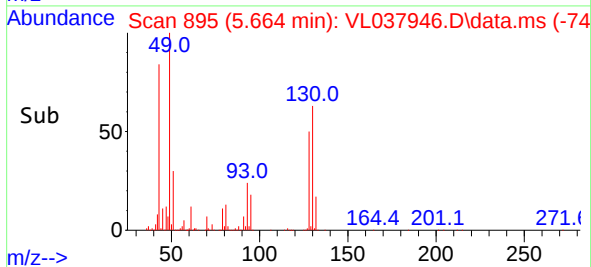
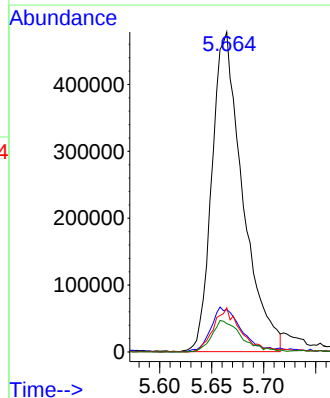
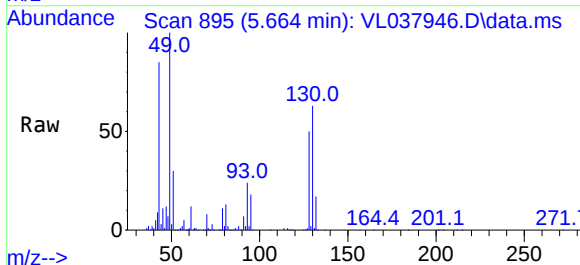
Manual Integrations
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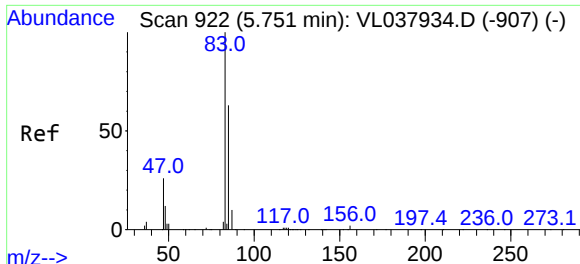
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#25
Ethyl Acetate
Concen: 2.959 ppbv
RT: 5.664 min Scan# 895
Delta R.T. -0.010 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

Tgt Ion: 43 Resp: 981956
Ion Ratio Lower Upper
43 100
45 14.7 8.1 12.1#
61 13.2 8.1 12.1#
70 10.2 5.8 8.6#





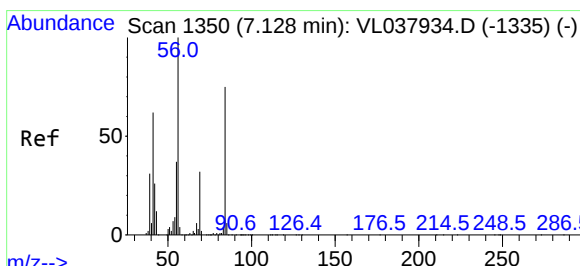
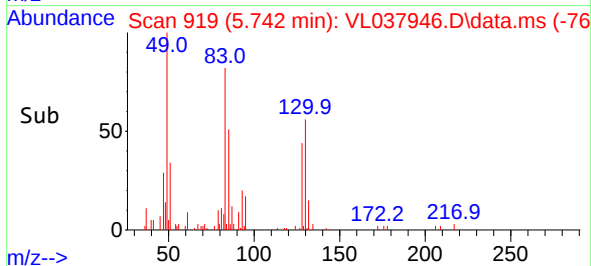
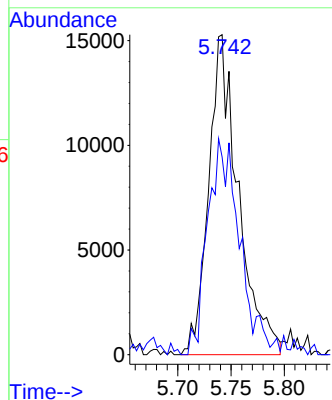
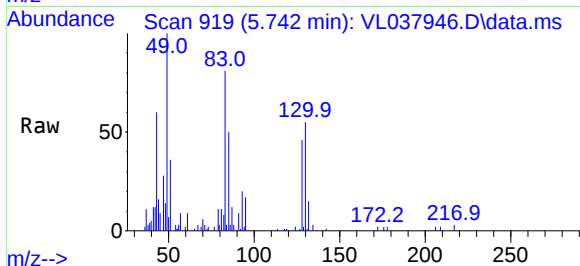
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Chloroform
Concen: 0.126 ppbv m
RT: 5.742 min Scan# 919
Delta R.T. -0.010 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 83 Resp: 2962
Ion Ratio Lower Upper
83 100
85 61.7 50.6 76.0

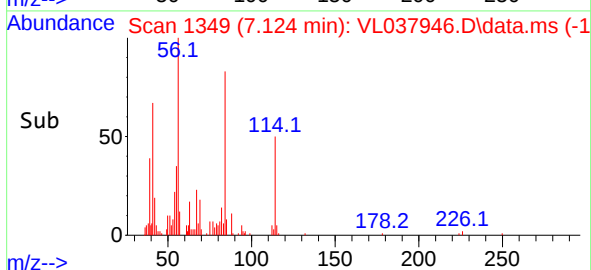
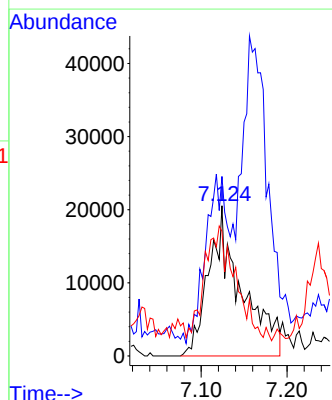
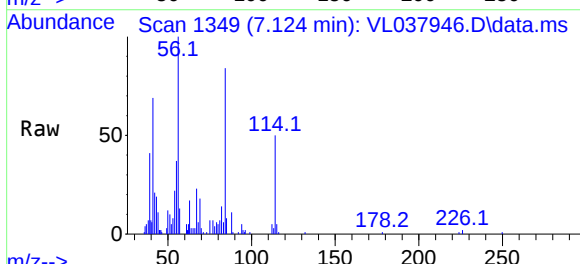
Manual Integrations
APPROVED

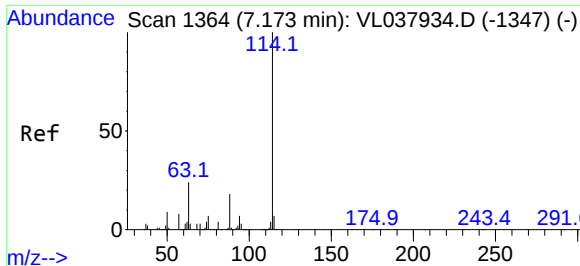
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#30
Cyclohexane
Concen: 0.404 ppbv m
RT: 7.124 min Scan# 1349
Delta R.T. -0.003 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

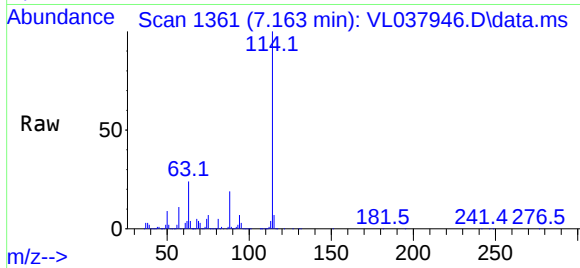
Tgt Ion: 84 Resp: 54236
Ion Ratio Lower Upper
84 100
56 0.0 114.0 171.0#
41 72.1 68.3 102.5





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.163 min Scan# 114
Delta R.T. -0.010 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

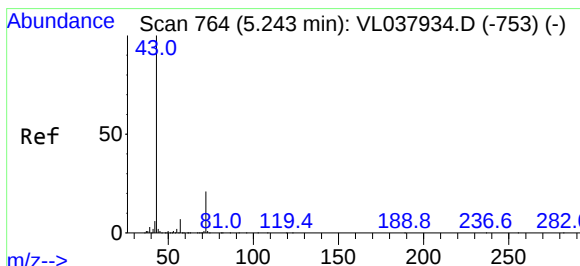
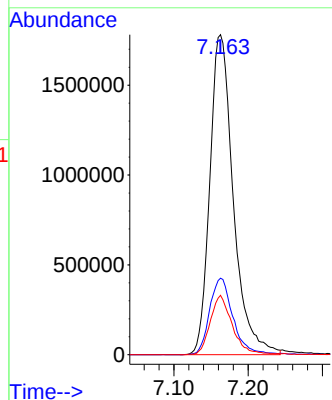
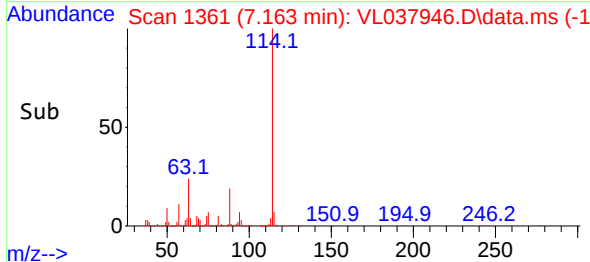
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



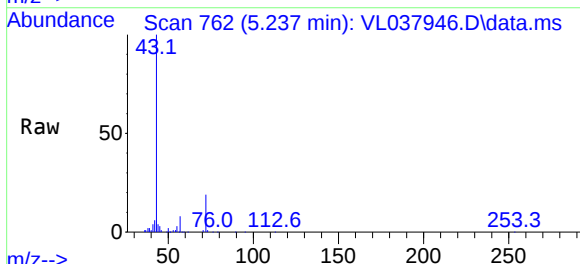
Tgt Ion:114 Resp: 3920088
Ion Ratio Lower Upper
114 100
63 24.2 19.4 29.0
88 17.6 14.2 21.4

Manual Integrations
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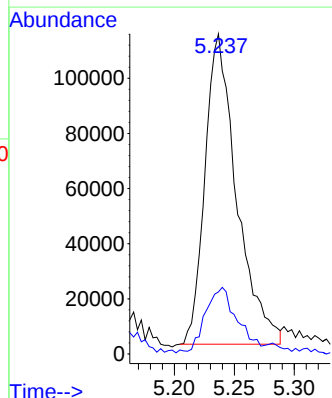
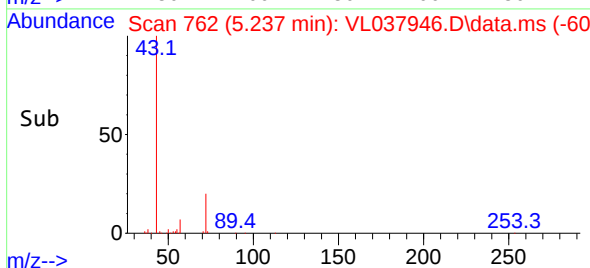
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021

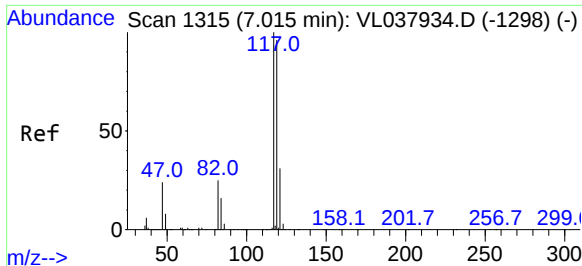


#34
2-Butanone
Concen: 1.423 ppbv
RT: 5.237 min Scan# 762
Delta R.T. -0.007 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16



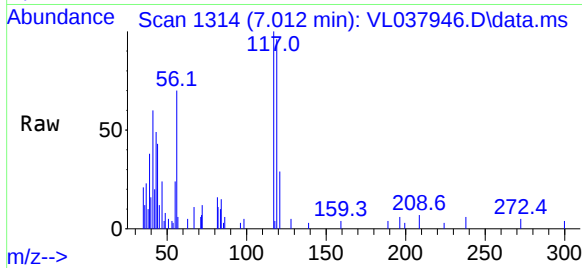
Tgt Ion: 43 Resp: 206677
Ion Ratio Lower Upper
43 100
72 25.5 18.3 27.5





#35
Carbon Tetrachloride
Concen: 0.059 ppbv m
RT: 7.012 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

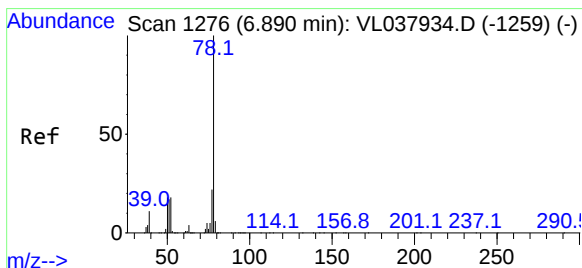
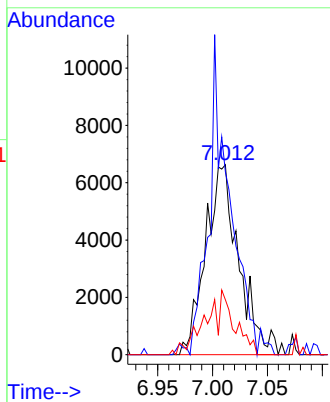
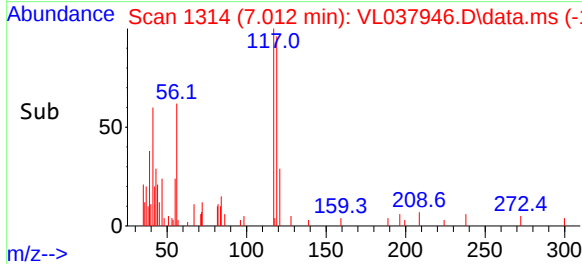
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



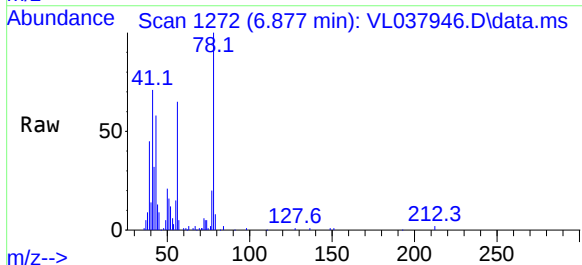
Tgt Ion: 117 Resp: 1404
Ion Ratio Lower Upper
117 100
119 96.2 76.6 114.8
121 28.9 25.1 37.7

Manual Integrations
APPROVED

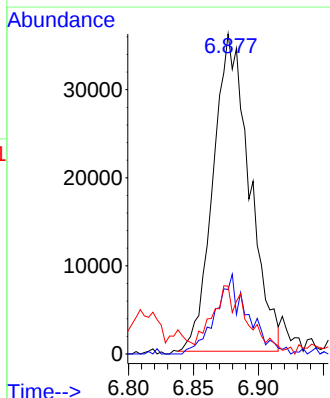
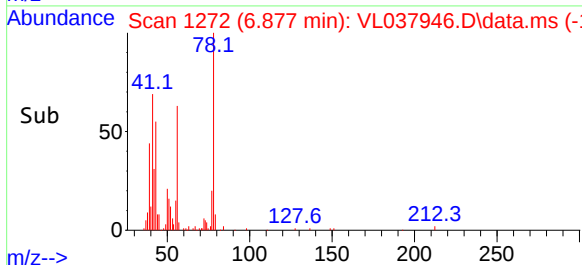
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021

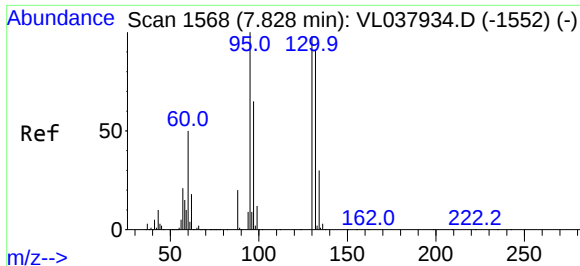


#36
Benzene
Concen: 0.220 ppbv
RT: 6.877 min Scan# 1272
Delta R.T. -0.013 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16



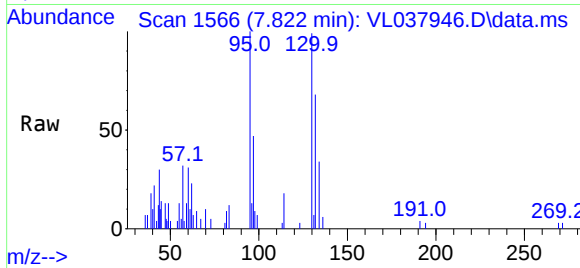
Tgt Ion: 78 Resp: 70218
Ion Ratio Lower Upper
78 100
77 20.3 17.9 26.9
50 18.8 14.4 21.6





#38
Trichloroethene
Concen: 0.087 ppbv m
RT: 7.822 min Scan# 1157
Delta R.T. -0.007 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

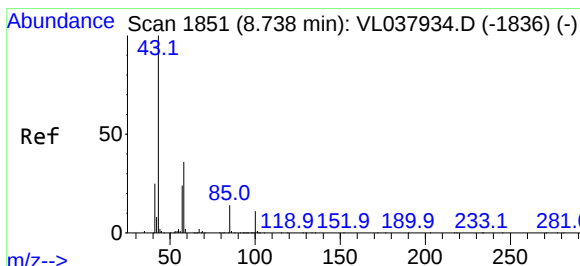
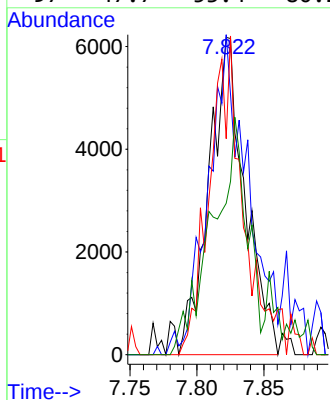
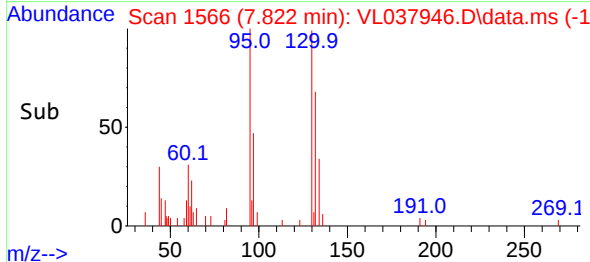
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:130 Resp: 1157
Ion Ratio Lower Upper
130 100
95 100.8 81.8 122.8
132 68.1 74.2 111.2
97 47.7 53.4 80.2

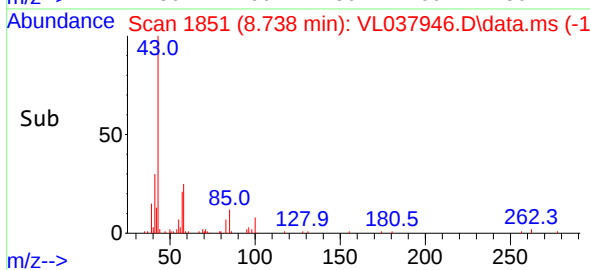
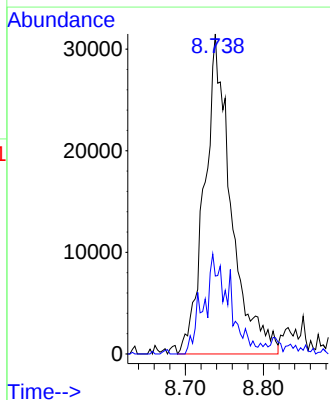
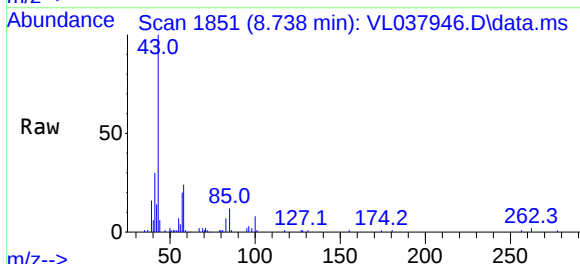
Manual Integrations
APPROVED

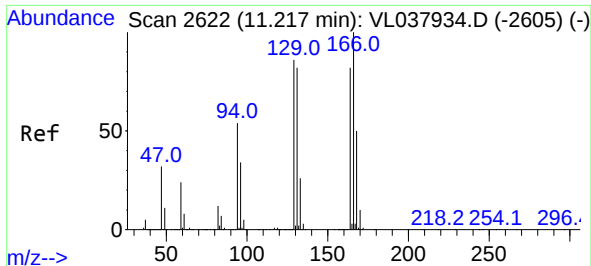
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#50
4-Methyl-2-Pentanone
Concen: 0.391 ppbv m
RT: 8.738 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

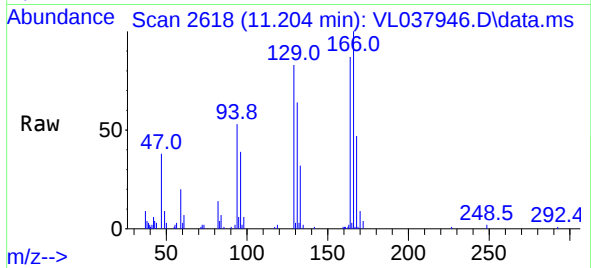
Tgt Ion: 43 Resp: 74652
Ion Ratio Lower Upper
43 100
58 30.8 28.8 43.2





#52
Tetrachloroethene
Concen: 0.427 ppbv m
RT: 11.204 min Scan# 2179
Delta R.T. -0.013 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

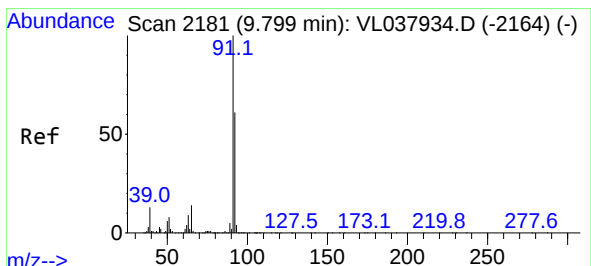
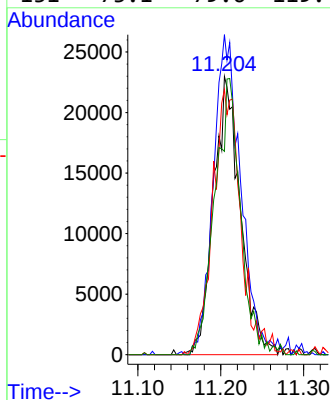
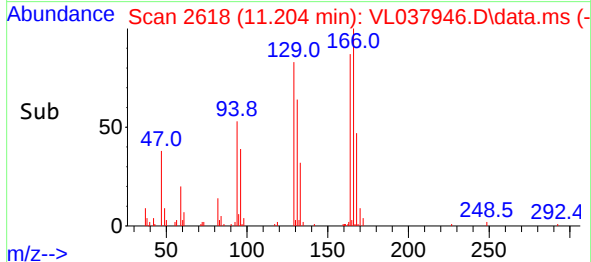
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:164 Resp: 5176
Ion Ratio Lower Upper
164 100
166 115.0 97.6 146.4
129 95.3 84.2 126.2
131 73.1 79.6 119.4#

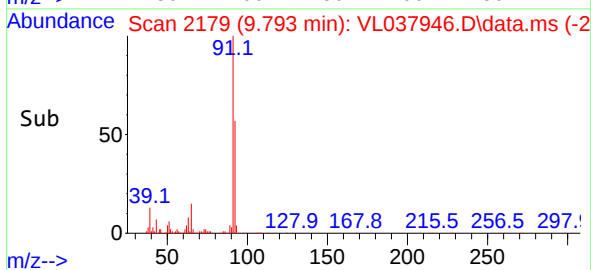
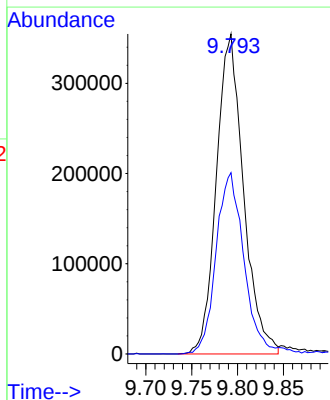
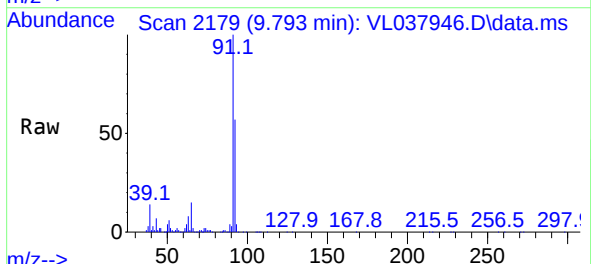
Manual Integrations
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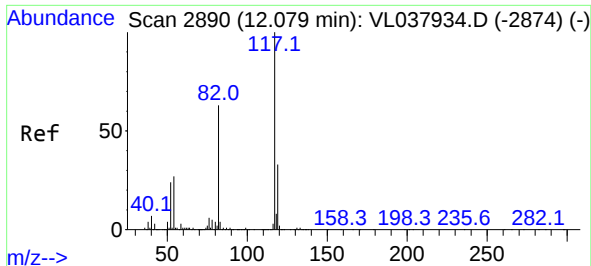
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#53
Toluene
Concen: 2.133 ppbv
RT: 9.793 min Scan# 2179
Delta R.T. -0.007 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

Tgt Ion: 91 Resp: 729857
Ion Ratio Lower Upper
91 100
92 58.7 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.066 min Scan# 2886

Delta R.T. -0.013 min

Lab File: VL037946.D

Acq: 1 Nov 2021 20:16

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:117 Resp: 336288

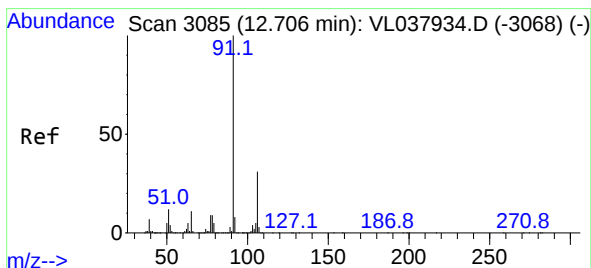
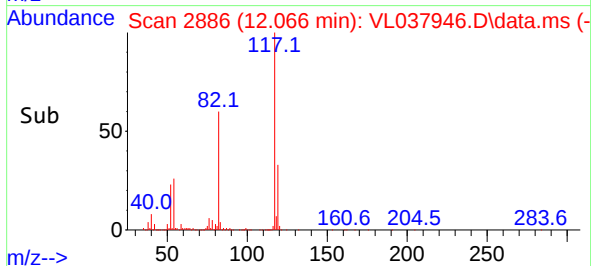
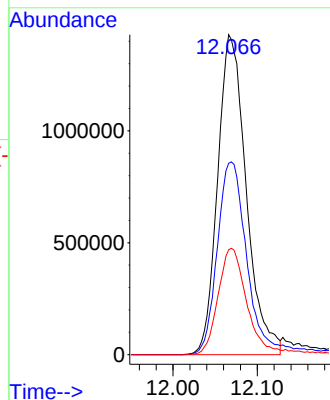
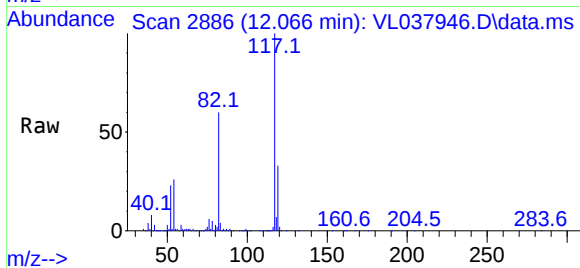
Ion	Ratio	Lower	Upper
117	100		
82	65.6	51.0	76.6
119	35.2	26.9	40.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/05/2021

Supervised By :Mahesh Dadoda 11/10/2021



#58

Ethyl Benzene

Concen: 0.296 ppbv

RT: 12.693 min Scan# 3081

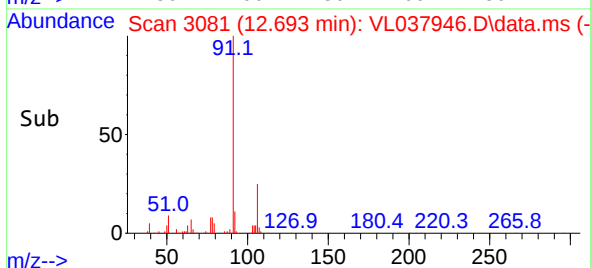
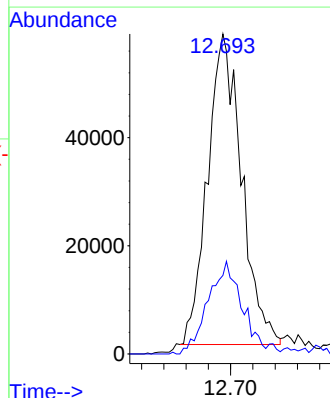
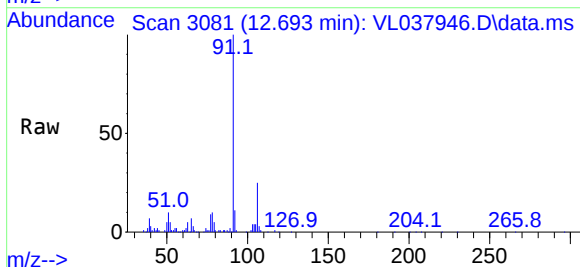
Delta R.T. -0.013 min

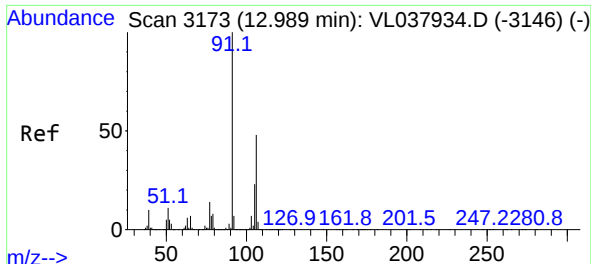
Lab File: VL037946.D

Acq: 1 Nov 2021 20:16

Tgt Ion: 91 Resp: 121530

Ion	Ratio	Lower	Upper
91	100		
106	25.3	25.1	37.7





#59

m/p-Xylene

Concen: 1.261 ppbv

RT: 12.950 min Scan# 3161

Delta R.T. -0.039 min

Lab File: VL037946.D

Acq: 1 Nov 2021 20:16

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 91 Resp: 46104

Ion Ratio Lower Upper

91 100

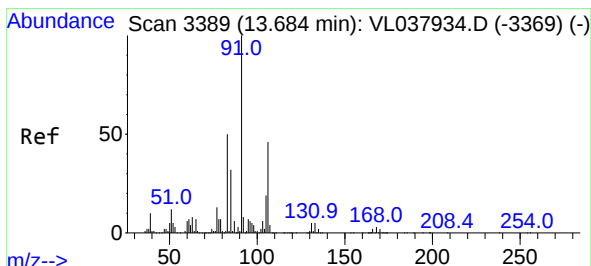
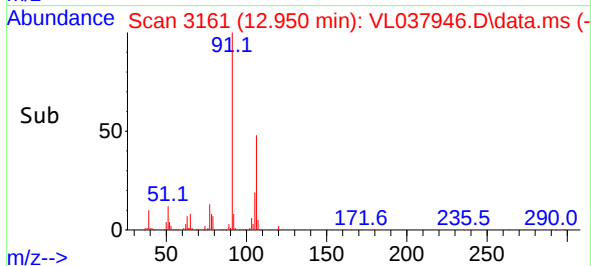
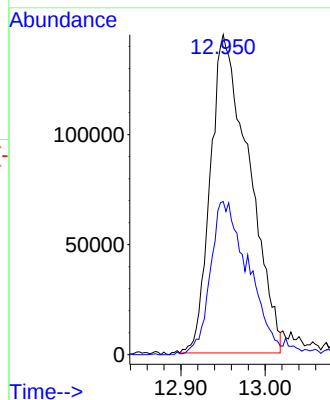
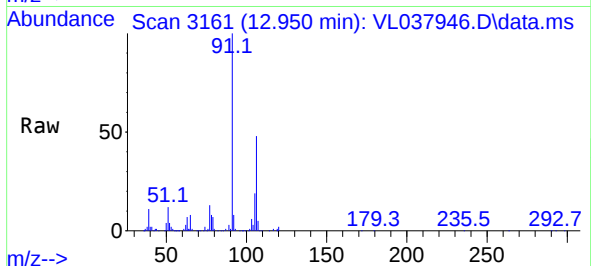
106 49.1 37.1 55.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/05/2021

Supervised By :Mahesh Dadoda 11/10/2021



#60

o-Xylene

Concen: 0.490 ppbv

RT: 13.677 min Scan# 3387

Delta R.T. -0.007 min

Lab File: VL037946.D

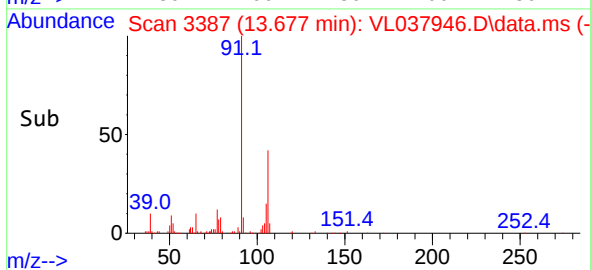
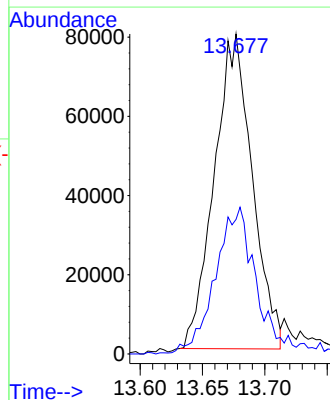
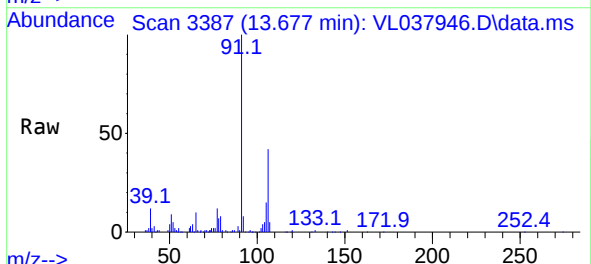
Acq: 1 Nov 2021 20:16

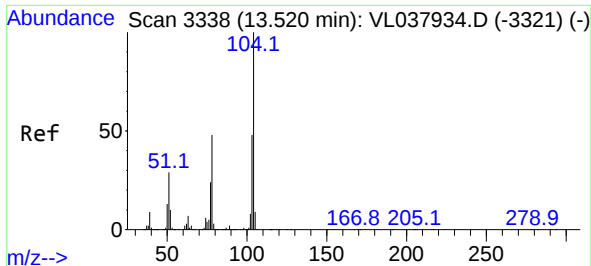
Tgt Ion: 91 Resp: 169032

Ion Ratio Lower Upper

91 100

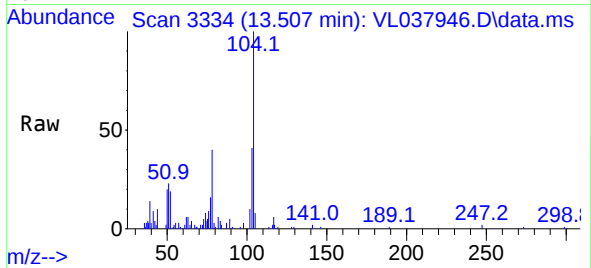
106 51.3 23.5 70.6





#61
Styrene
Concen: 0.279 ppbv m
RT: 13.507 min Scan# 311
Delta R.T. -0.013 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

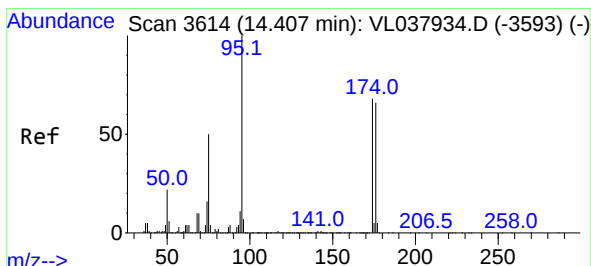
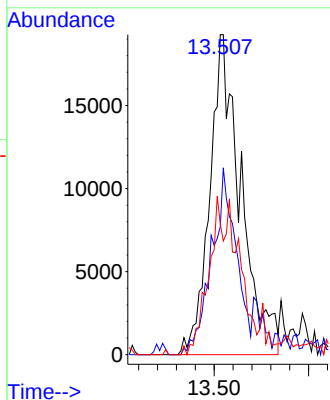
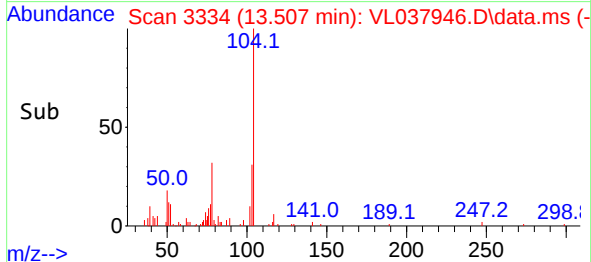
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



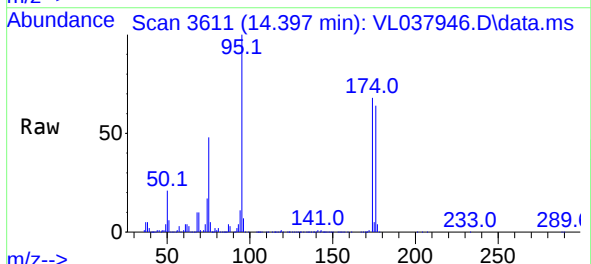
Tgt Ion:104 Resp: 44148
Ion Ratio Lower Upper
104 100
78 57.1 39.3 58.9
103 50.3 39.6 59.4

Manual Integrations
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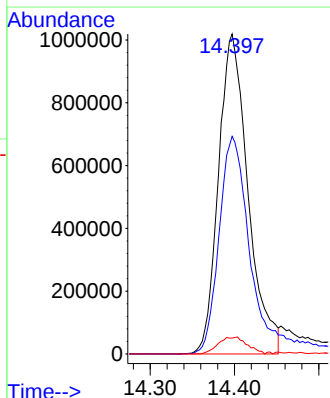
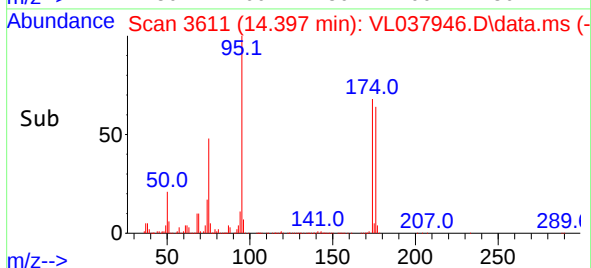
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021

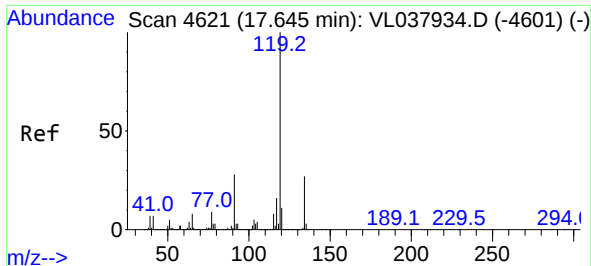


#68
1-Bromo-4-Fluorobenzene
Concen: 10.146 ppbv
RT: 14.397 min Scan# 3611
Delta R.T. -0.010 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16



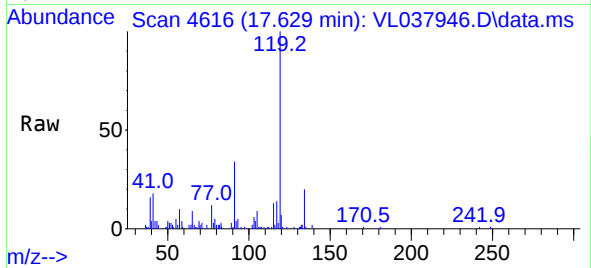
Tgt Ion: 95 Resp: 2480180
Ion Ratio Lower Upper
95 100
174 76.7 58.3 87.5
175 5.7 4.6 6.8





#69
p-Isopropyltoluene
Concen: 0.161 ppbv m
RT: 17.629 min Scan# 4616
Delta R.T. -0.016 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16

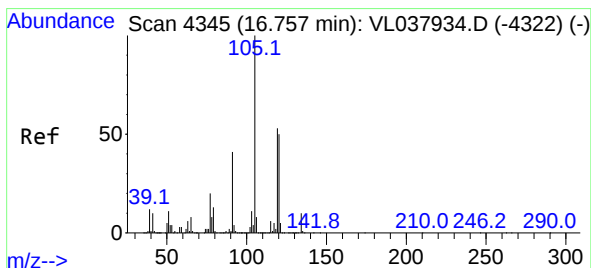
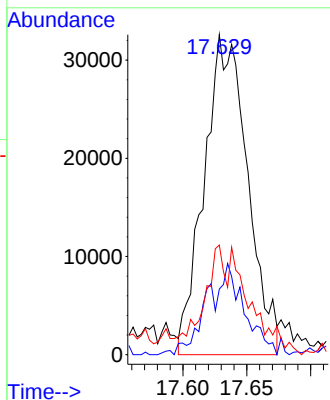
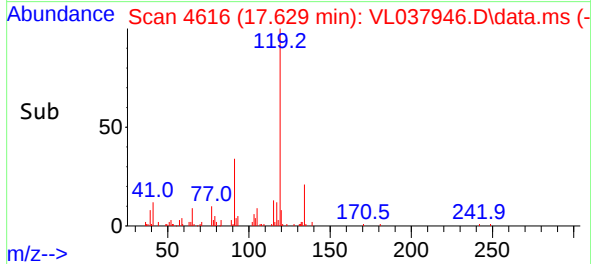
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



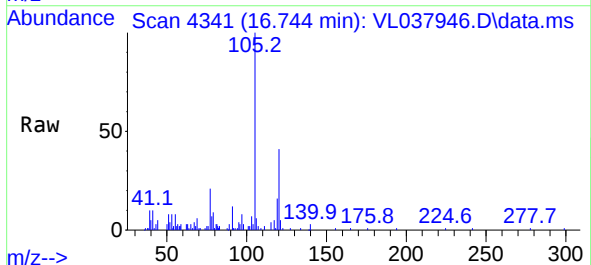
Tgt Ion:119 Resp: 76830
Ion Ratio Lower Upper
119 100
134 0.0 21.0 31.4
91 33.5 21.8 32.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#74
1,2,4-Trimethylbenzene
Concen: 0.189 ppbv
RT: 16.744 min Scan# 4341
Delta R.T. -0.013 min
Lab File: VL037946.D
Acq: 1 Nov 2021 20:16



Tgt Ion:105 Resp: 73137
Ion Ratio Lower Upper
105 100
120 38.6 40.0 60.0#
91 9.9 32.6 49.0#
77 19.7 15.8 23.8

