

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061322\
 Data File : VL039273.D
 Acq On : 14 Jun 2022 5:26
 Operator : SY/AP
 Sample : N3326-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/14/2022
 Supervised By :Mahesh Dadoda 06/16/2022

Quant Time: Jun 14 08:10:05 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 0

QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.674	49	1022985	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.182	114	2329054	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.086	117	1908478	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.417	95	1696084	10.750	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.057	85	54433	0.303	ppbv #	85
3) Chlorodifluoromethane	2.996	51	83153m	0.639	ppbv	
4) Chloromethane	3.150	50	37178	0.556	ppbv #	82
9) Propene	3.031	41	193699	3.413	ppbv #	70
10) Heptane	8.131	43	19987m	0.151	ppbv	
11) Trichlorofluoromethane	3.964	101	56457	0.347	ppbv	85
13) Ethanol	3.616	45	464771	150.158	ppbv #	100
15) Acetone	3.858	43	2226769	20.896	ppbv	90
17) tert-Butyl alcohol	4.311	59	22478m	0.272	ppbv	
19) Isopropyl Alcohol	3.980	45	1739398	34.802	ppbv	100
20) Methylene Chloride	4.353	84	306362	6.822	ppbv	93
26) Hexane	5.693	57	225411	2.136	ppbv #	58
34) 2-Butanone	5.259	43	84314m	0.666	ppbv	
35) Carbon Tetrachloride	7.025	117	15441m	0.091	ppbv	
36) Benzene	6.899	78	65765m	0.348	ppbv	
44) 2,2,4-Trimethylpentane	7.873	57	71793	0.217	ppbv #	67
52) Tetrachloroethene	11.233	164	69007m	0.935	ppbv	
53) Toluene	9.809	91	170227	0.782	ppbv	99
58) Ethyl Benzene	12.709	91	39569m	0.151	ppbv	
59) m/p-Xylene	12.970	91	100165m	0.433	ppbv	
60) o-Xylene	13.690	91	44111m	0.203	ppbv	
61) Styrene	13.526	104	18683m	0.160	ppbv	
74) 1,2,4-Trimethylbenzene	16.761	105	65247m	0.254	ppbv	

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

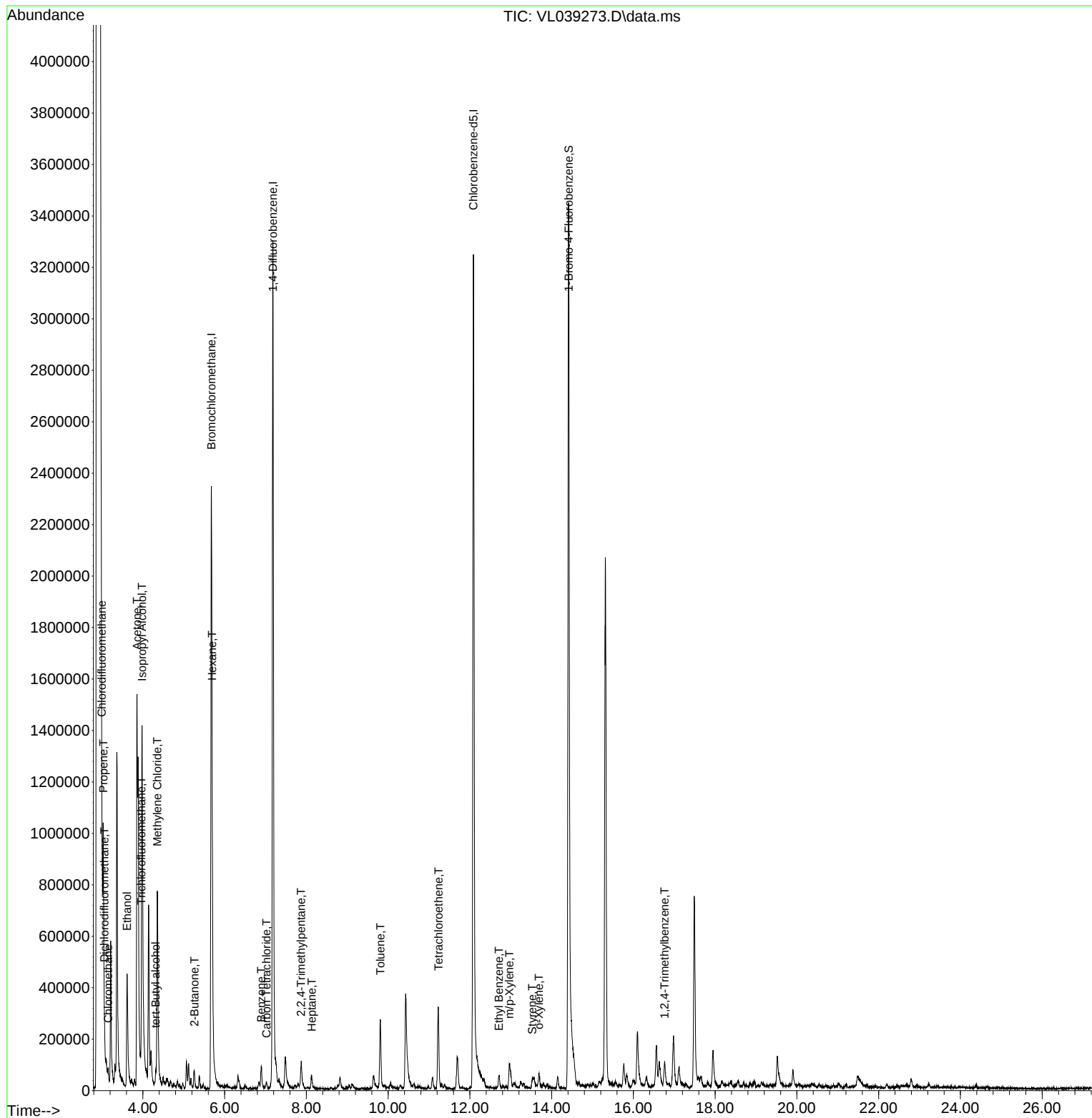
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061322\
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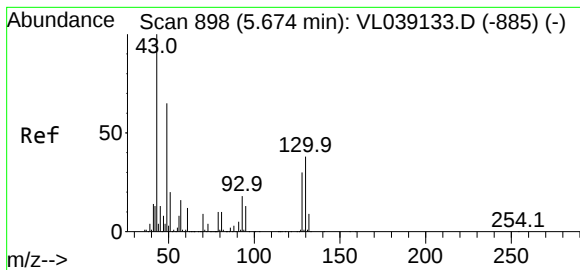
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Jun 14 08:10:05 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun
QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration

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APPROVED

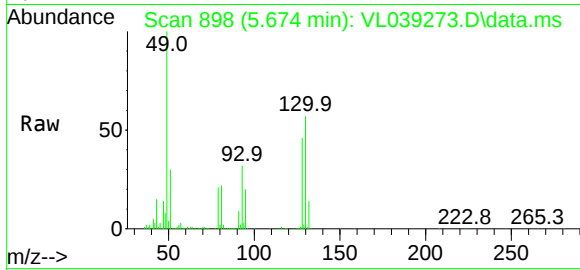
Reviewed By :Semsettin Yesilyurt 06/14/2022
Supervised By :Mahesh Dadoda 06/16/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.674 min Scan# 898
Delta R.T. 0.000 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

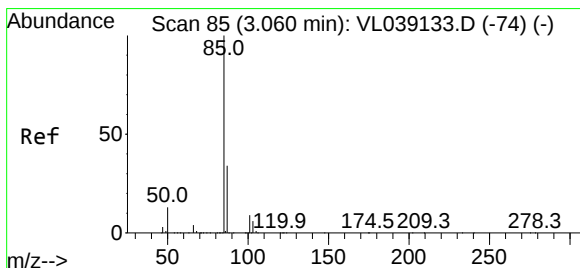
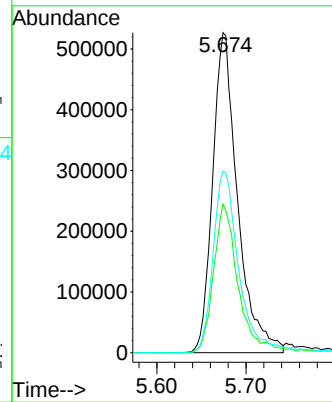
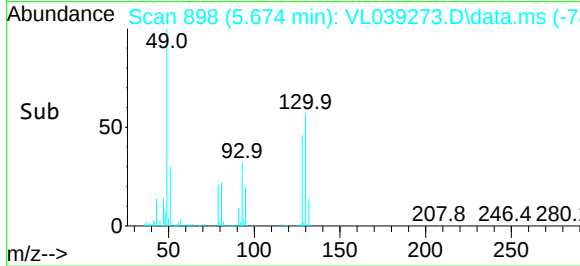
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 49 Resp: 102298
Ion Ratio Lower Upper
49 100
128 46.8 24.7 74.1
130 60.1 31.4 94.0

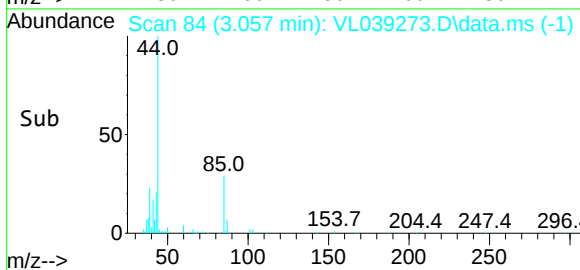
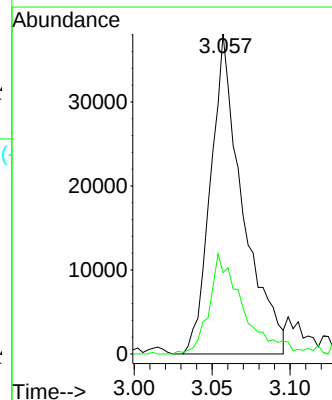
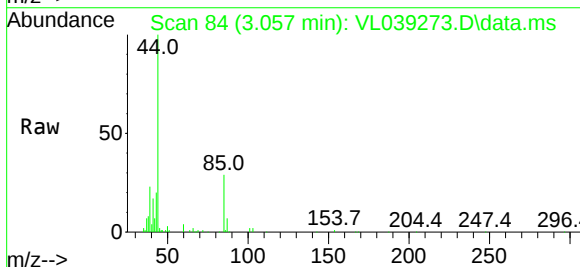
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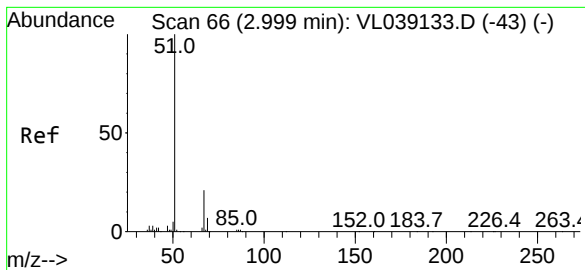
Reviewed By :Semsettin Yesilyurt 06/14/2022
Supervised By :Mahesh Dadoda 06/16/2022



#2
Dichlorodifluoromethane
Concen: 0.303 ppbv
RT: 3.057 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

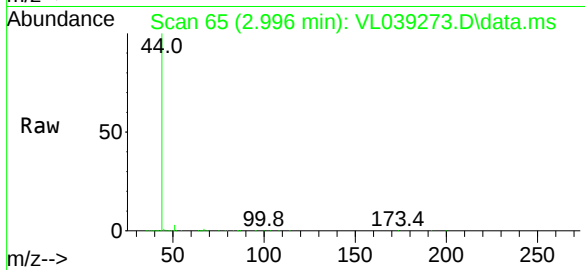
Tgt Ion: 85 Resp: 54433
Ion Ratio Lower Upper
85 100
87 24.9 26.9 40.3





#3
Chlorodifluoromethane
Concen: 0.639 ppbv m
RT: 2.996 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

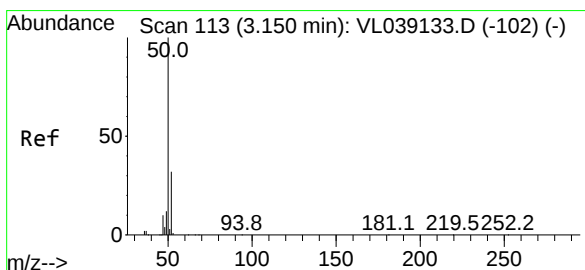
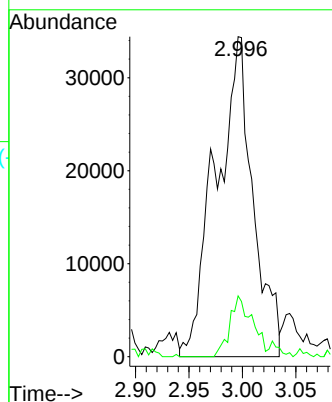
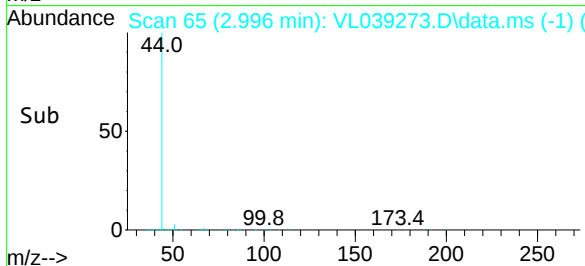
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 51 Resp: 8315
Ion Ratio Lower Upper
51 100
67 0.7 16.2 24.4

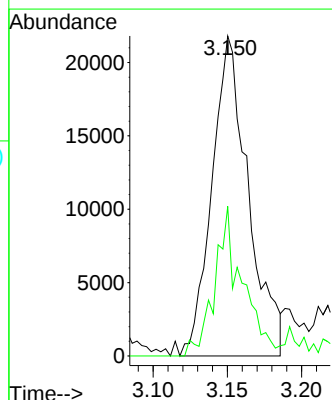
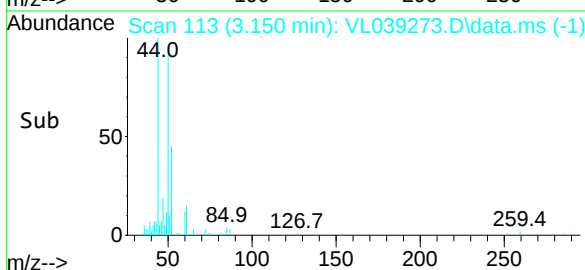
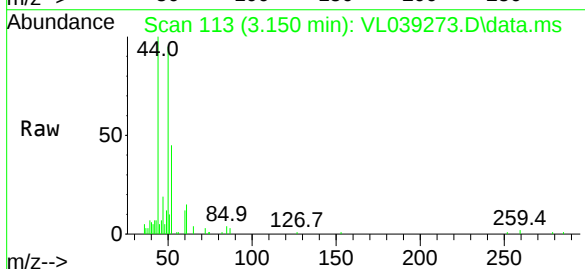
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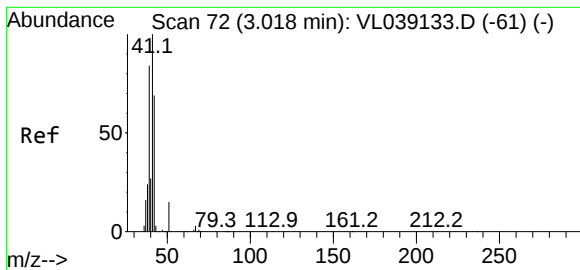
Reviewed By :Semsettin Yesilyurt 06/14/2022
Supervised By :Mahesh Dadoda 06/16/2022



#4
Chloromethane
Concen: 0.556 ppbv
RT: 3.150 min Scan# 113
Delta R.T. 0.000 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

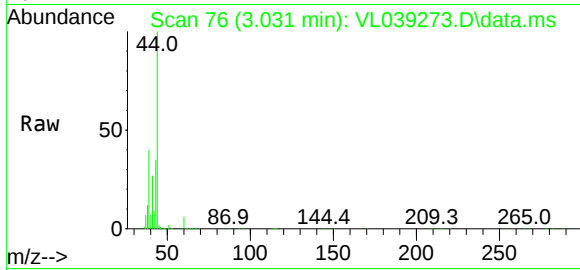
Tgt Ion: 50 Resp: 37178
Ion Ratio Lower Upper
50 100
52 42.4 25.9 38.9





#9
 Propene
 Concen: 3.413 ppbv
 RT: 3.031 min Scan# 70
 Delta R.T. 0.013 min
 Lab File: VL039273.D
 Acq: 14 Jun 2022 5:26

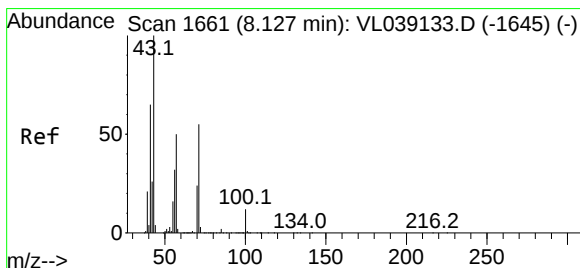
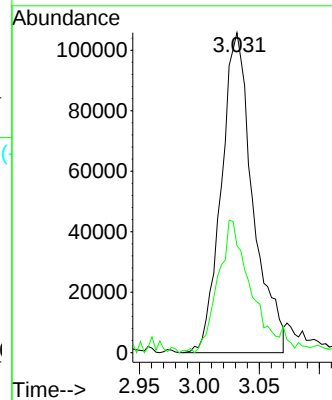
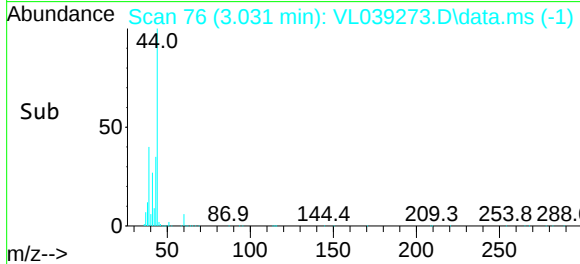
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion: 41 Resp: 19369
 Ion Ratio Lower Upper
 41 100
 42 45.0 55.4 83.2

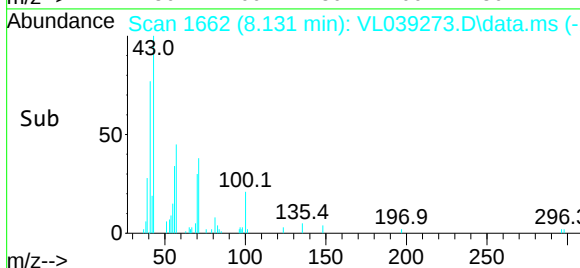
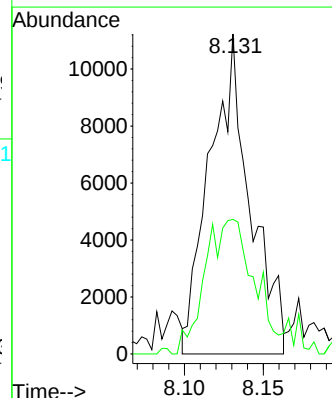
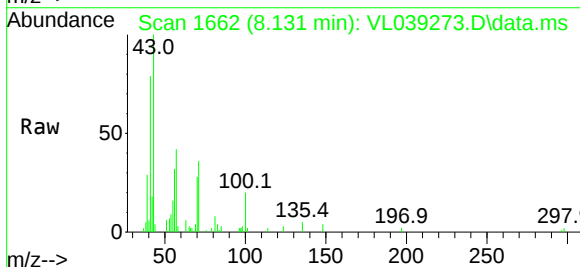
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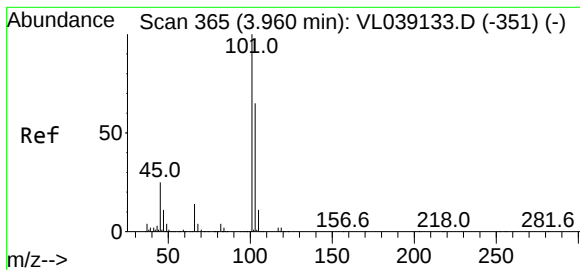
Reviewed By :Semsettin Yesilyurt 06/14/2022
 Supervised By :Mahesh Dadoda 06/16/2022



#10
 Heptane
 Concen: 0.151 ppbv m
 RT: 8.131 min Scan# 1662
 Delta R.T. 0.003 min
 Lab File: VL039273.D
 Acq: 14 Jun 2022 5:26

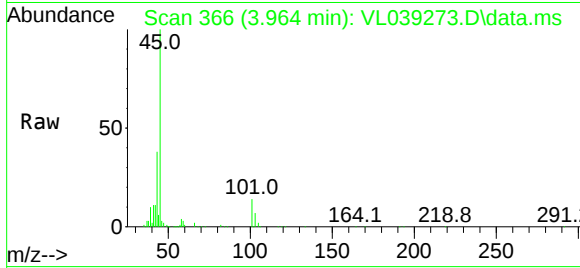
Tgt Ion: 43 Resp: 19987
 Ion Ratio Lower Upper
 43 100
 57 56.3 41.4 62.2





#11
Trichlorofluoromethane
Concen: 0.347 ppbv
RT: 3.964 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

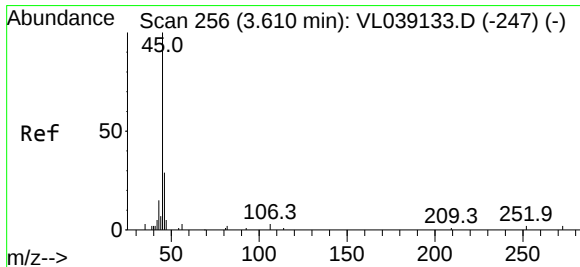
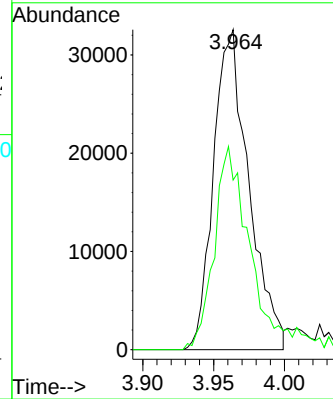
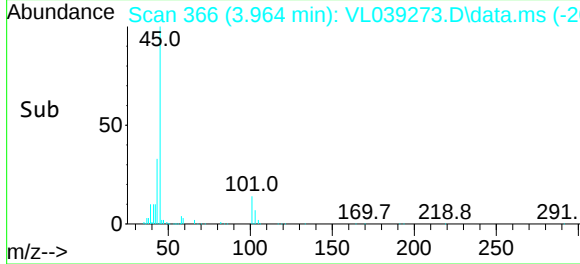
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:101 Resp: 5645
Ion Ratio Lower Upper
101 100
103 53.0 51.7 77.5

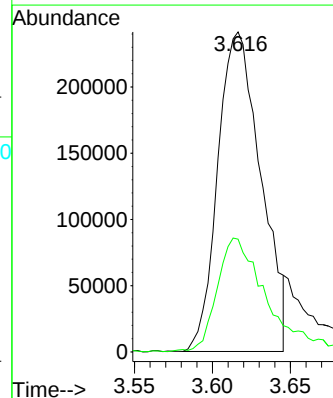
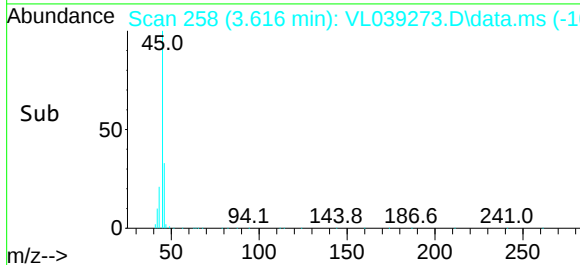
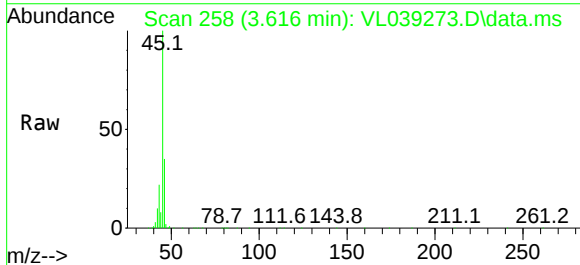
Manual Integrations
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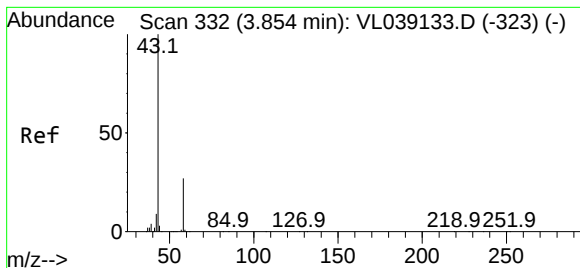
Reviewed By :Semsettin Yesilyurt 06/14/2022
Supervised By :Mahesh Dadoda 06/16/2022



#13
Ethanol
Concen: 150.158 ppbv
RT: 3.616 min Scan# 258
Delta R.T. 0.006 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

Tgt Ion: 45 Resp: 464771
Ion Ratio Lower Upper
45 100
46 41.8 0.0 0.0#





#15

Acetone

Concen: 20.896 ppbv

RT: 3.858 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL039273.D

Acq: 14 Jun 2022 5:26

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 43 Resp: 2226769

Ion Ratio Lower Upper

43 100

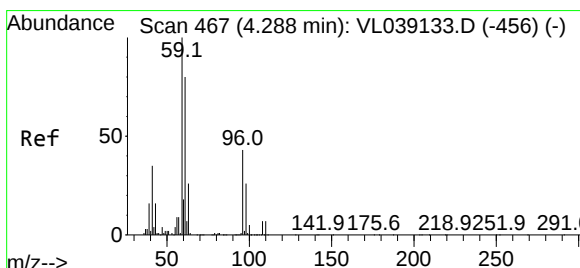
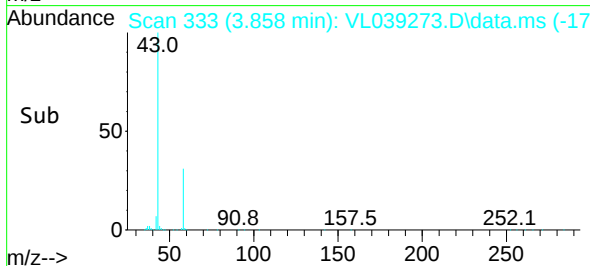
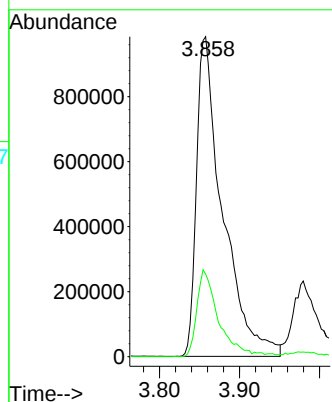
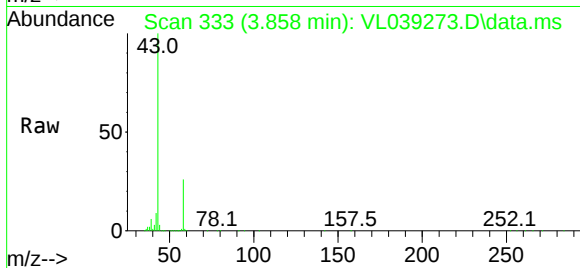
58 22.9 22.5 33.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/14/2022

Supervised By :Mahesh Dadoda 06/16/2022



#17

tert-Butyl alcohol

Concen: 0.272 ppbv m

RT: 4.311 min Scan# 474

Delta R.T. 0.023 min

Lab File: VL039273.D

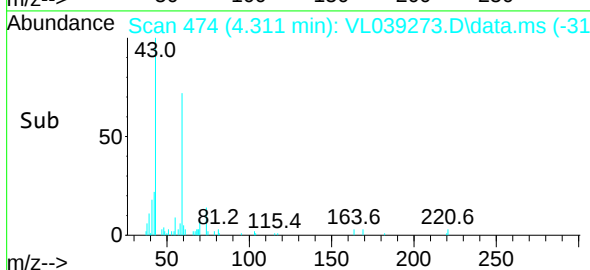
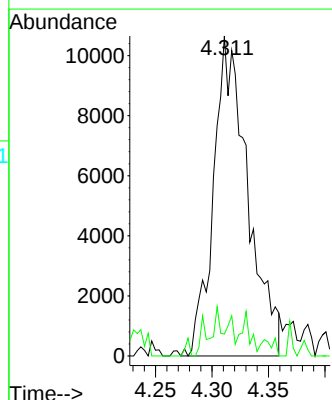
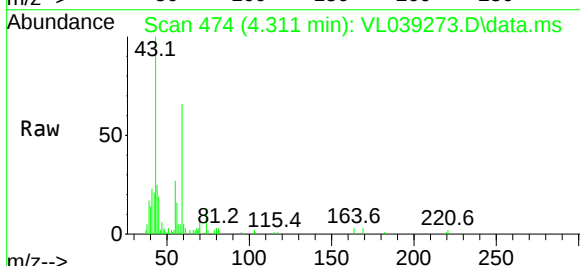
Acq: 14 Jun 2022 5:26

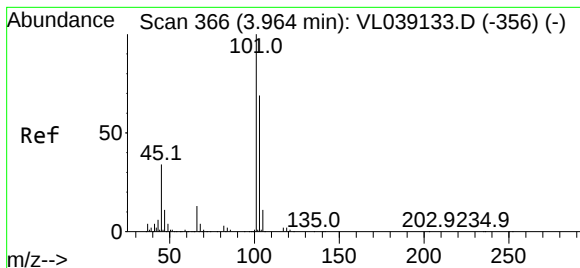
Tgt Ion: 59 Resp: 22478

Ion Ratio Lower Upper

59 100

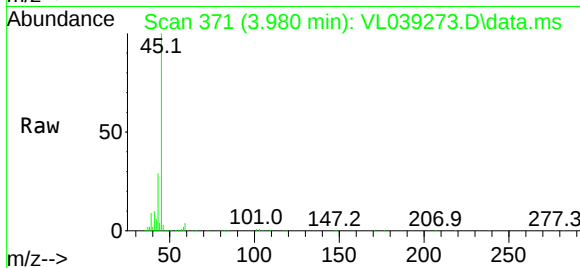
57 0.0 9.1 13.7#





#19
Isopropyl Alcohol
Concen: 34.802 ppbv
RT: 3.980 min Scan# 371
Delta R.T. 0.016 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

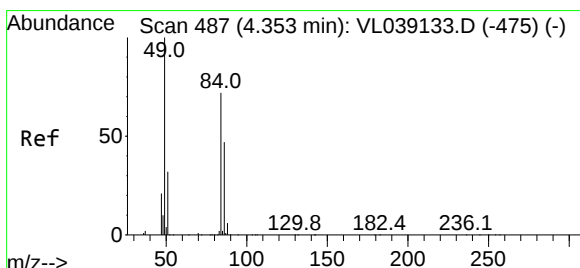
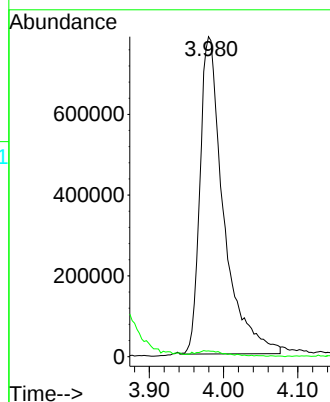
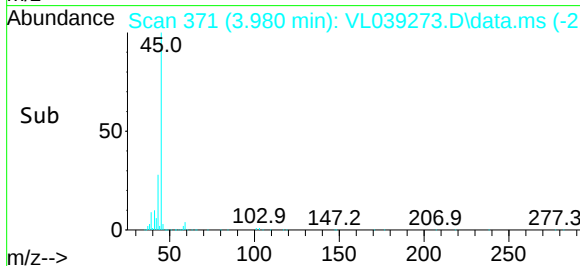
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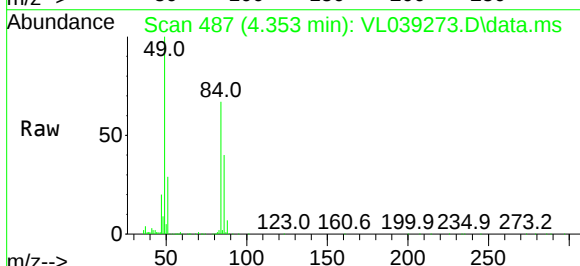
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Ion Ratio Lower Upper
45 100
58 2.3 1.8 2.8

Manual Integrations
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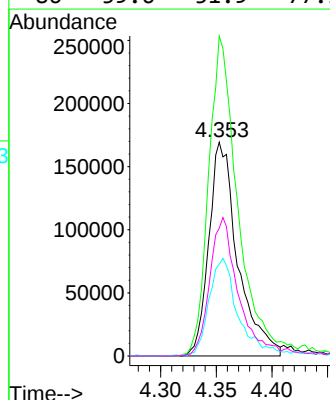
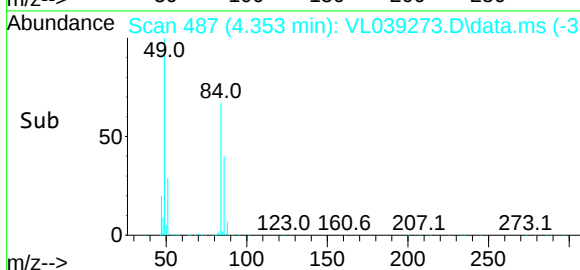
Reviewed By :Semsettin Yesilyurt 06/14/2022
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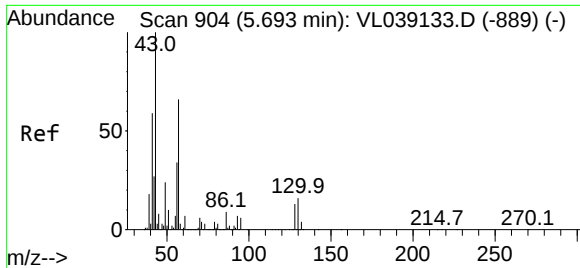


#20
Methylene Chloride
Concen: 6.822 ppbv
RT: 4.353 min Scan# 487
Delta R.T. 0.000 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26



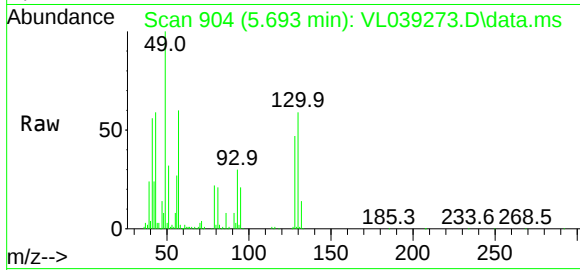
Tgt Ion: 84 Resp: 306362
Ion Ratio Lower Upper
84 100
49 149.3 111.1 166.7
51 42.5 35.3 52.9
86 59.6 51.9 77.9





#26
Hexane
Concen: 2.136 ppbv
RT: 5.693 min Scan# 904
Delta R.T. 0.000 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

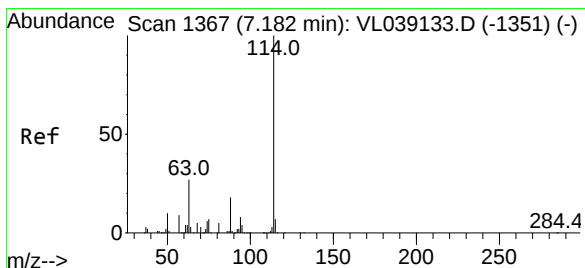
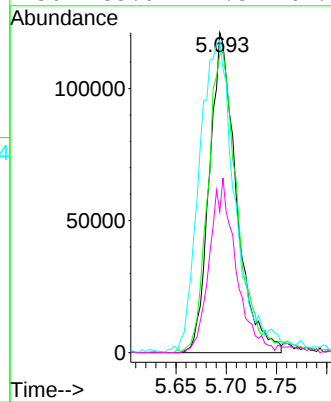
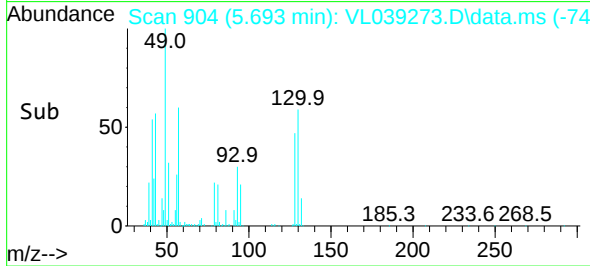
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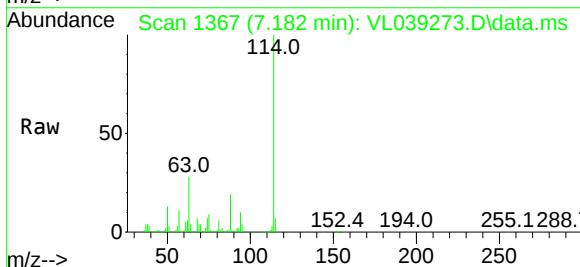
Tgt Ion: 57 Resp: 22541
Ion Ratio Lower Upper
57 100
41 105.5 72.4 108.6
43 133.5 187.0 280.6
56 55.6 41.8 62.6

Manual Integrations
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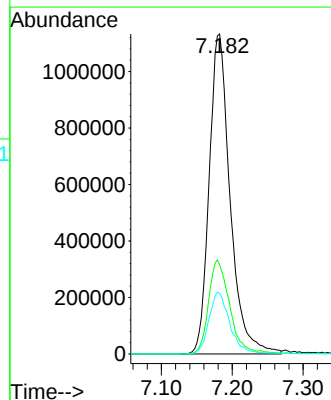
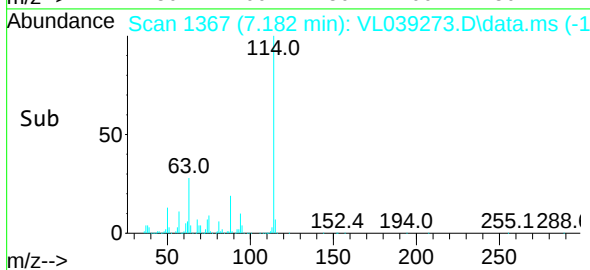
Reviewed By :Semsettin Yesilyurt 06/14/2022
Supervised By :Mahesh Dadoda 06/16/2022

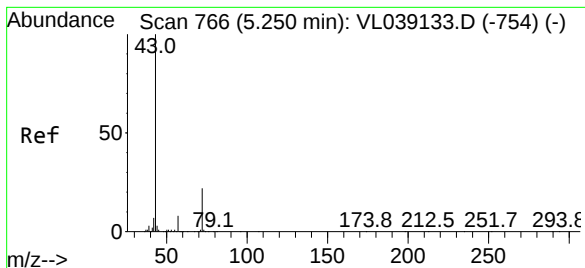


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.182 min Scan# 1367
Delta R.T. 0.000 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26



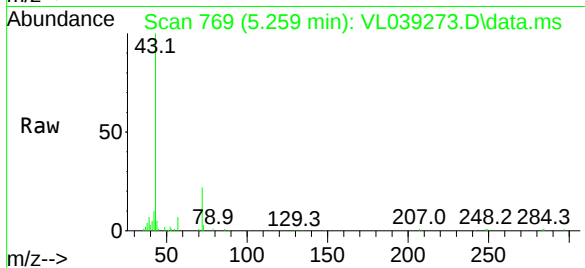
Tgt Ion:114 Resp: 2329054
Ion Ratio Lower Upper
114 100
63 30.1 21.7 32.5
88 19.5 14.8 22.2





#34
2-Butanone
Concen: 0.666 ppbv m
RT: 5.259 min Scan# 769
Delta R.T. 0.010 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

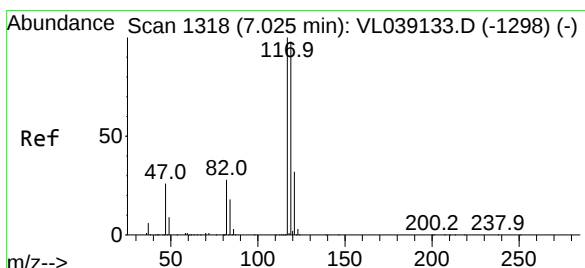
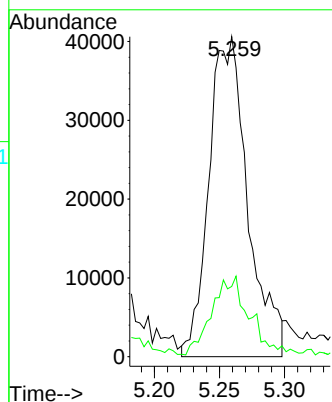
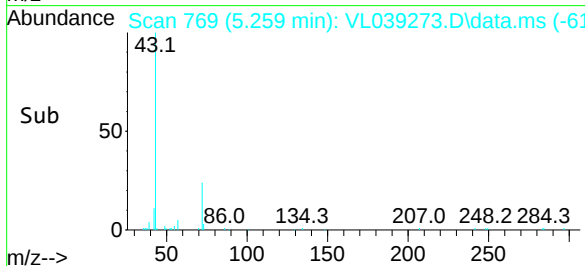
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 43 Resp: 84314
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2

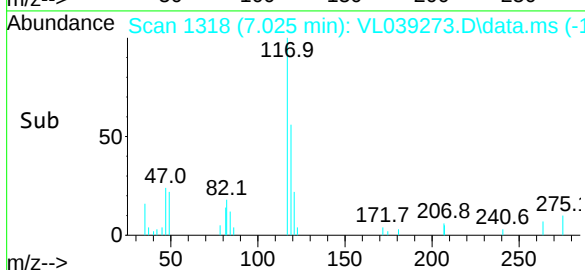
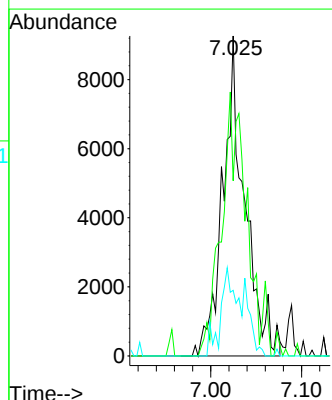
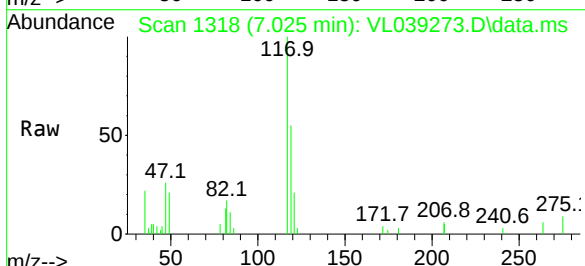
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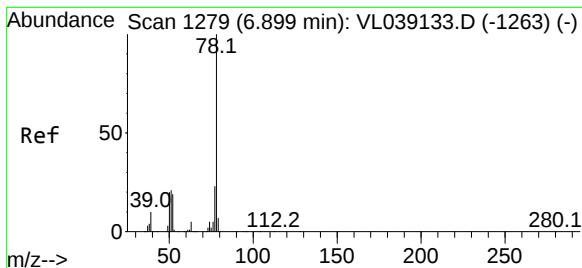
Reviewed By :Semsettin Yesilyurt 06/14/2022
Supervised By :Mahesh Dadoda 06/16/2022



#35
Carbon Tetrachloride
Concen: 0.091 ppbv m
RT: 7.025 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

Tgt Ion:117 Resp: 15441
Ion Ratio Lower Upper
117 100
119 54.8 78.6 118.0#
121 20.5 25.4 38.0#





#36

Benzene

Concen: 0.348 ppbv m

RT: 6.899 min Scan# 1279

Delta R.T. 0.000 min

Lab File: VL039273.D

Acq: 14 Jun 2022 5:26

Instrument :

MSVOA_L

ClientSampleId :

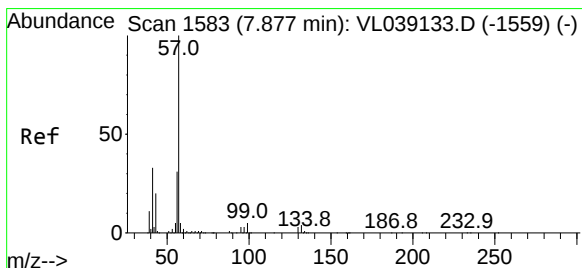
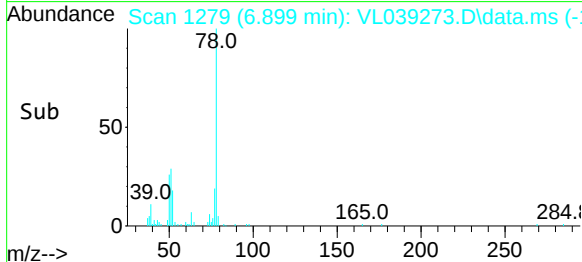
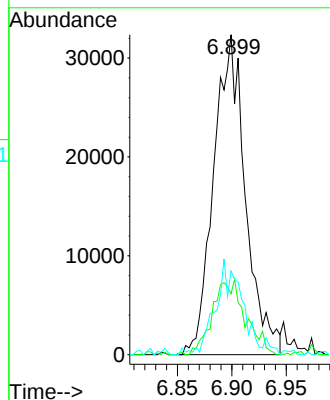
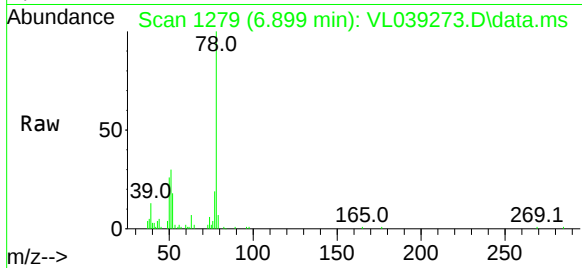
IA2

Tgt Ion: 78	Resp: 6576
Ion Ratio	Lower Upper
78 100	
77 19.1	18.6 27.8
50 26.1	15.8 23.8

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Reviewed By :Semsettin Yesilyurt 06/14/2022
Supervised By :Mahesh Dadoda 06/16/2022



#44

2,2,4-Trimethylpentane

Concen: 0.217 ppbv

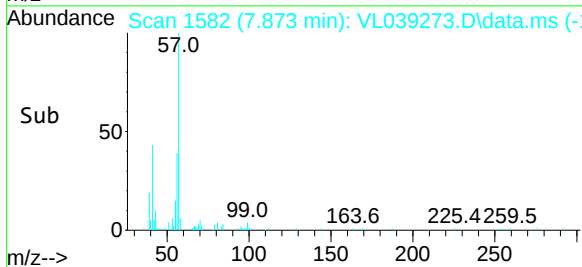
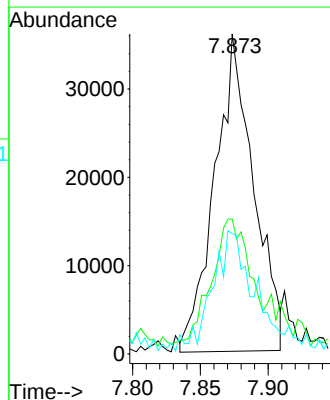
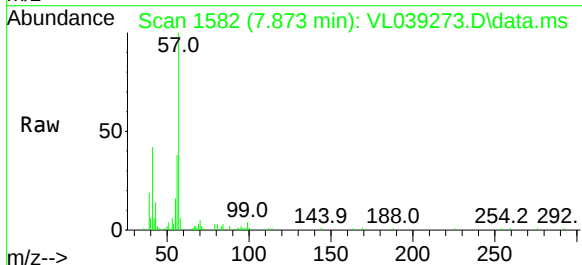
RT: 7.873 min Scan# 1582

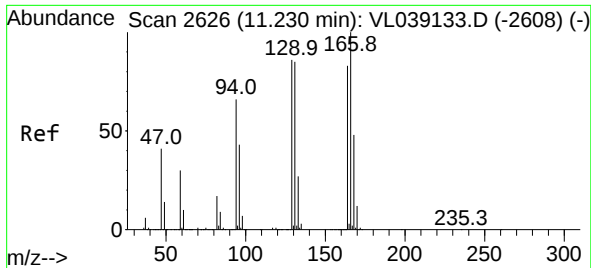
Delta R.T. -0.003 min

Lab File: VL039273.D

Acq: 14 Jun 2022 5:26

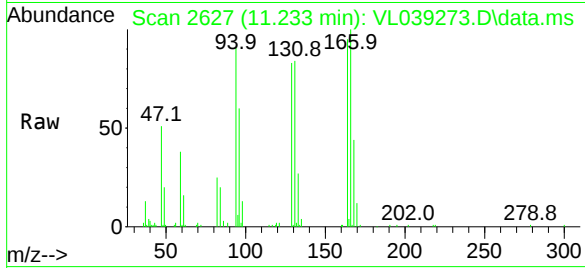
Tgt Ion: 57	Resp: 71793
Ion Ratio	Lower Upper
57 100	
41 53.1	26.2 39.4#
56 47.6	24.7 37.1#





#52
Tetrachloroethene
Concen: 0.935 ppbv m
RT: 11.233 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

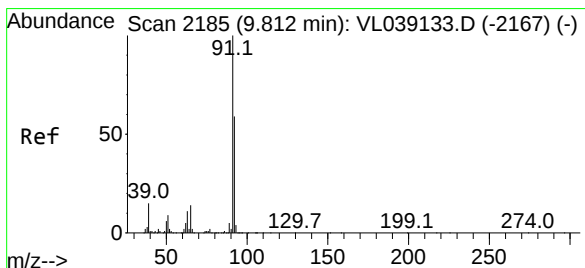
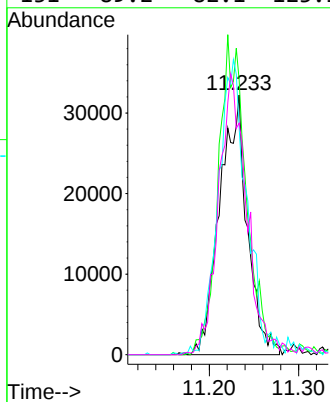
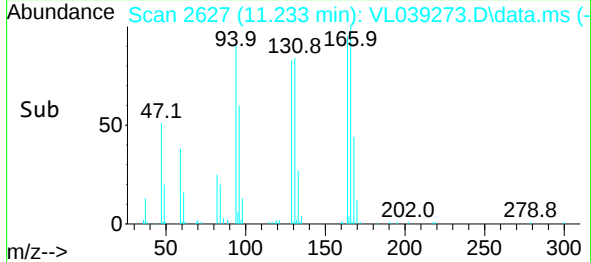
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:164 Resp: 6900
Ion Ratio Lower Upper
164 100
166 105.7 96.3 144.5
129 87.3 82.5 123.7
131 89.2 82.1 123.1

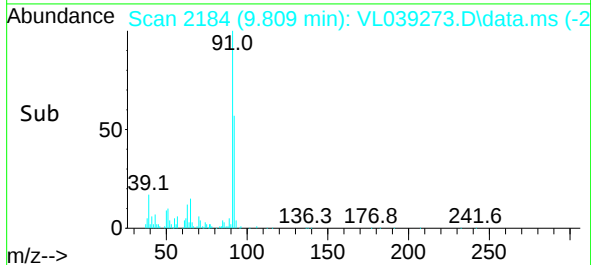
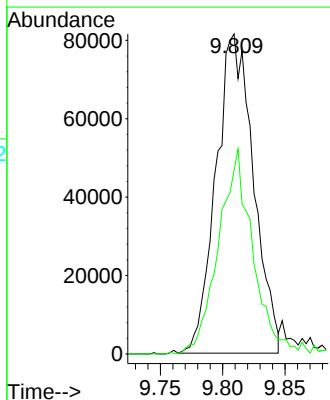
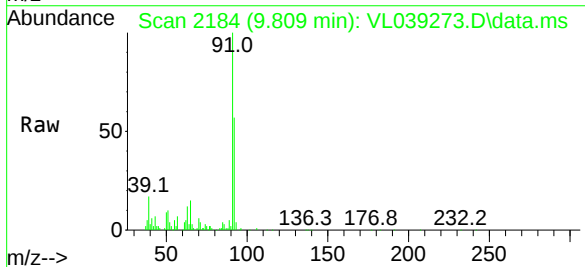
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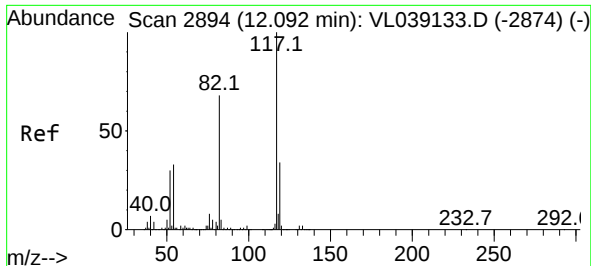
Reviewed By :Semsettin Yesilyurt 06/14/2022
Supervised By :Mahesh Dadoda 06/16/2022



#53
Toluene
Concen: 0.782 ppbv
RT: 9.809 min Scan# 2184
Delta R.T. -0.003 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

Tgt Ion: 91 Resp: 170227
Ion Ratio Lower Upper
91 100
92 59.0 48.1 72.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.086 min Scan# 2892

Delta R.T. -0.006 min

Lab File: VL039273.D

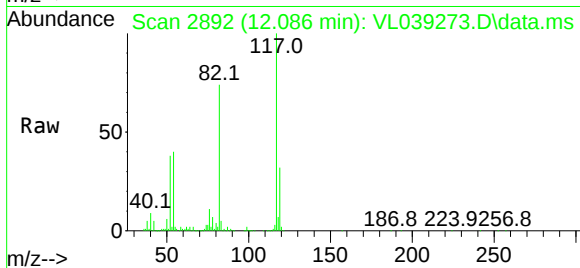
Acq: 14 Jun 2022 5:26

Instrument :

MSVOA_L

ClientSampleId :

IA2



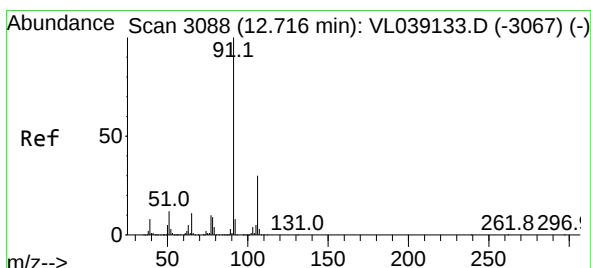
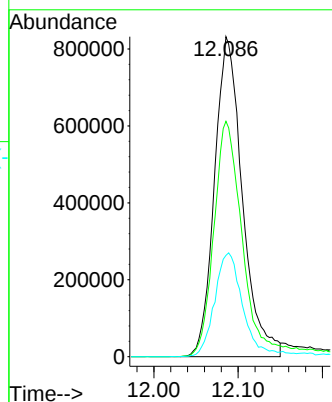
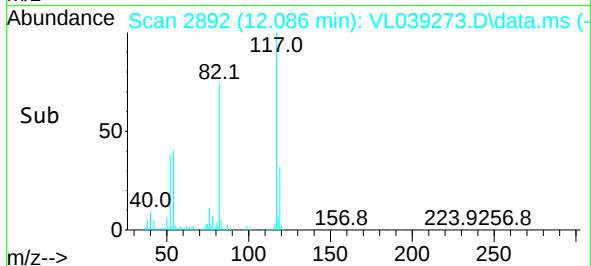
Tgt Ion: 117 Resp: 1908478

Ion	Ratio	Lower	Upper
117	100		
82	79.9	55.1	82.7
119	35.6	24.7	37.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/14/2022
Supervised By :Mahesh Dadoda 06/16/2022



#58

Ethyl Benzene

Concen: 0.151 ppbv m

RT: 12.709 min Scan# 3086

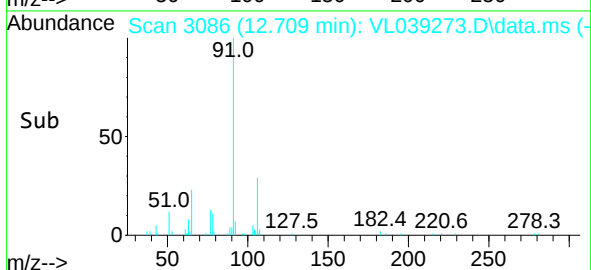
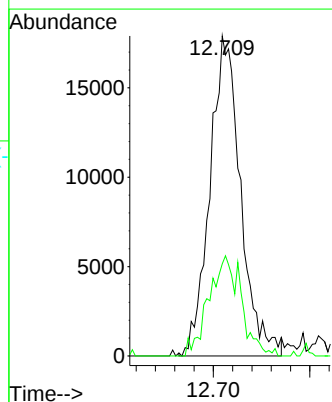
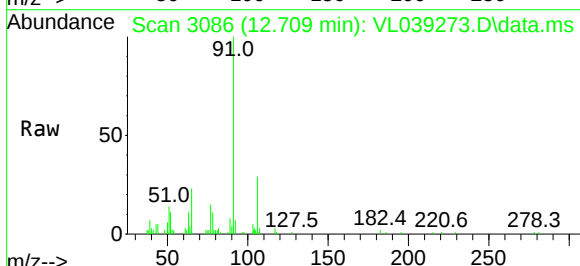
Delta R.T. -0.006 min

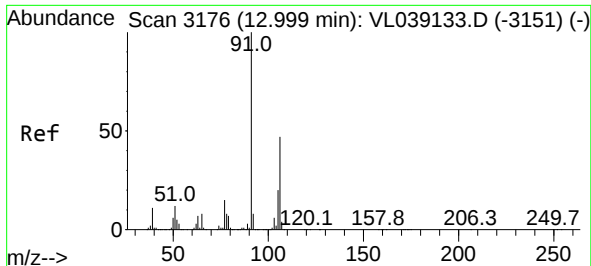
Lab File: VL039273.D

Acq: 14 Jun 2022 5:26

Tgt Ion: 91 Resp: 39569

Ion	Ratio	Lower	Upper
91	100		
106	28.8	24.2	36.4





#59

m/p-Xylene

Concen: 0.433 ppbv m

RT: 12.970 min Scan# 3176

Delta R.T. -0.029 min

Lab File: VL039273.D

Acq: 14 Jun 2022 5:26

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 91 Resp: 10016

Ion Ratio Lower Upper

91 100

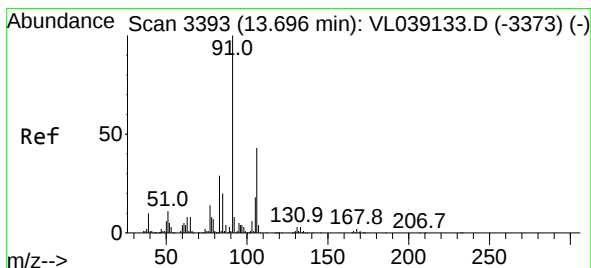
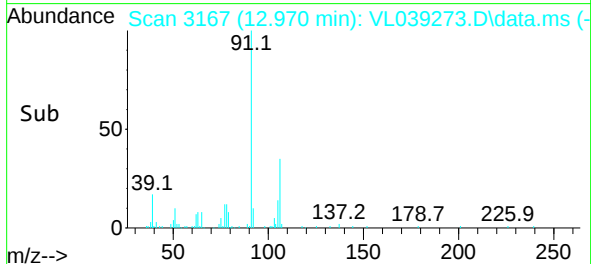
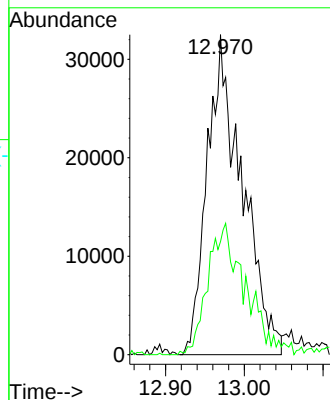
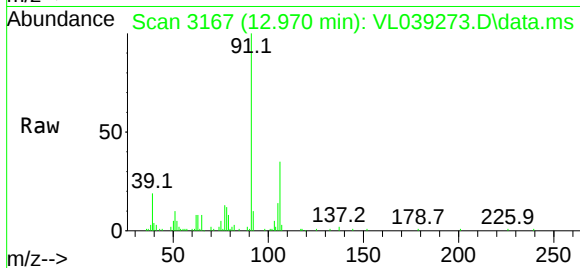
106 0.0 34.3 51.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/14/2022

Supervised By :Mahesh Dadoda 06/16/2022



#60

o-Xylene

Concen: 0.203 ppbv m

RT: 13.690 min Scan# 3391

Delta R.T. -0.006 min

Lab File: VL039273.D

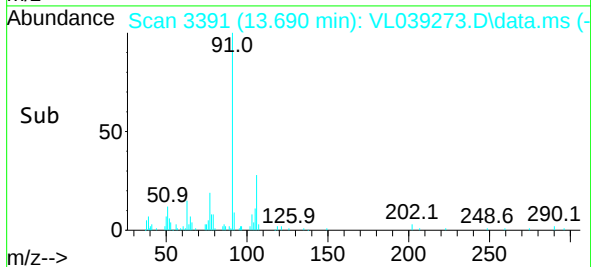
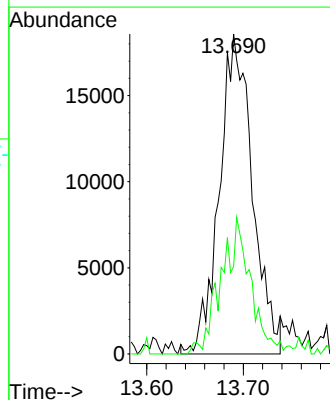
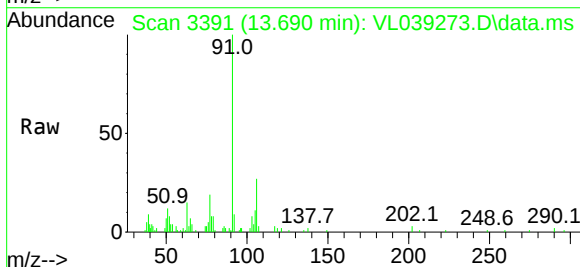
Acq: 14 Jun 2022 5:26

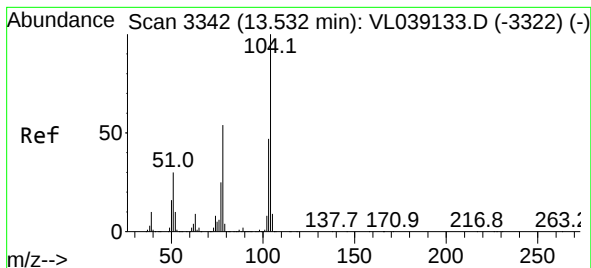
Tgt Ion: 91 Resp: 44111

Ion Ratio Lower Upper

91 100

106 38.6 22.3 66.9





#61

Styrene

Concen: 0.160 ppbv m

RT: 13.526 min Scan# 3342

Delta R.T. -0.006 min

Lab File: VL039273.D

Acq: 14 Jun 2022 5:26

Instrument :

MSVOA_L

ClientSampleId :

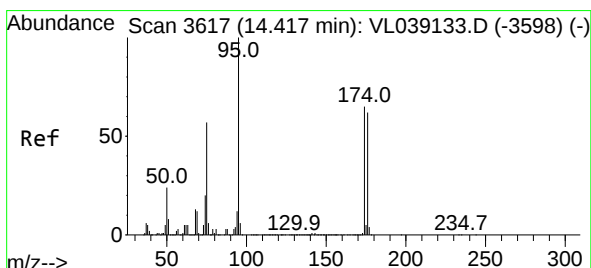
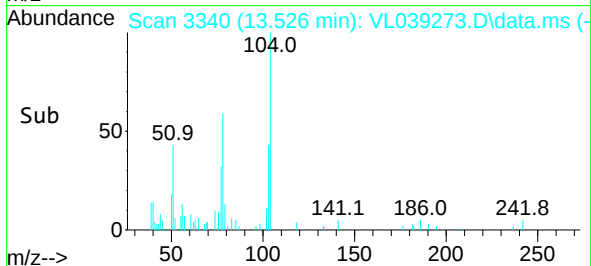
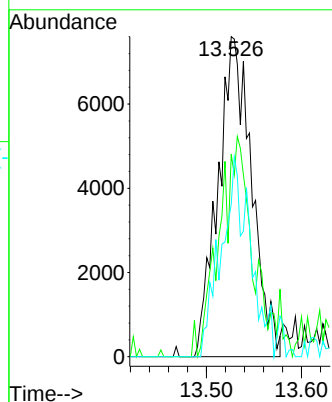
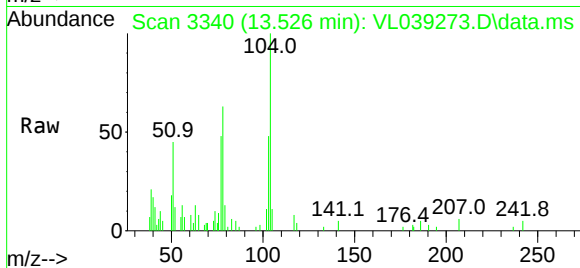
IA2

Tgt Ion:	104	Resp:	1868
Ion Ratio	Lower	Upper	
104	100		
78	73.0	45.7	68.5
103	56.1	39.6	59.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/14/2022
Supervised By :Mahesh Dadoda 06/16/2022



#68

1-Bromo-4-Fluorobenzene

Concen: 10.750 ppbv

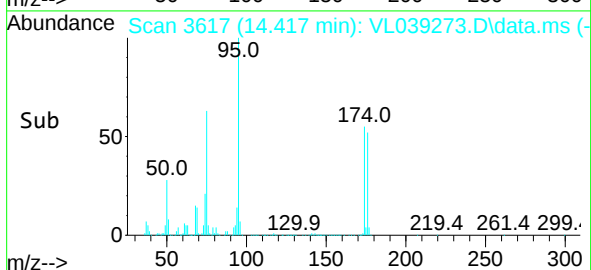
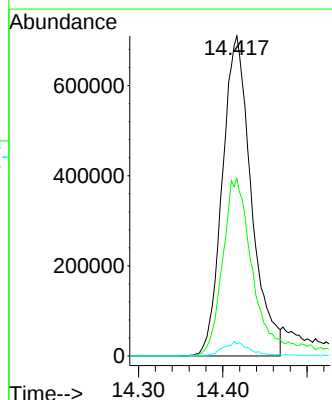
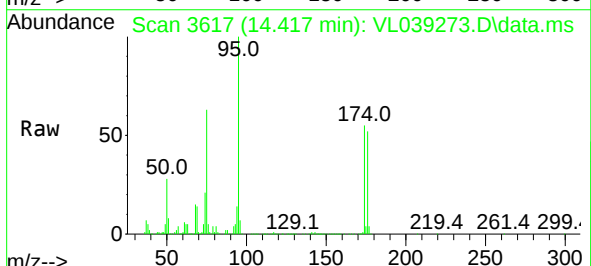
RT: 14.417 min Scan# 3617

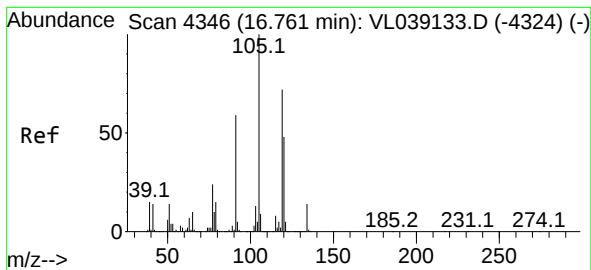
Delta R.T. 0.000 min

Lab File: VL039273.D

Acq: 14 Jun 2022 5:26

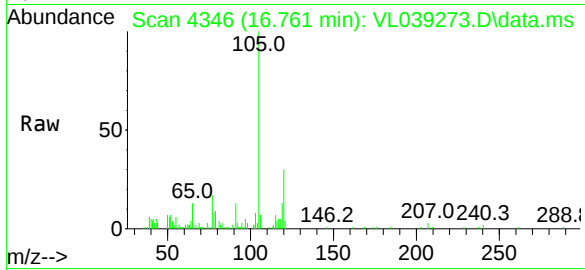
Tgt Ion:	95	Resp:	1696084
Ion Ratio	Lower	Upper	
95	100		
174	62.5	53.8	80.8
175	4.4	4.1	6.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.254 ppbv m
 RT: 16.761 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL039273.D
 Acq: 14 Jun 2022 5:26

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion:	105	Resp:	6524
Ion	Ratio	Lower	Upper
105	100		
120	29.9	38.1	57.1
91	13.0	47.4	71.0
77	17.3	19.5	29.3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/14/2022
 Supervised By :Mahesh Dadoda 06/16/2022

