

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040942.D
 Acq On : 21 Dec 2023 22:56
 Operator : SY/MD
 Sample : 05848-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023
 Supervised By :Mahesh Dadoda 12/26/2023

Quant Time: Dec 22 00:12:48 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 21 07:32:42 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	1209845	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	3293791	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.433	117	2898867	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.741	95	2149969	10.069	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.751	85	26565	0.115	ppbv	99
3) Chlorodifluoromethane	2.703	51	18774	0.103	ppbv #	84
4) Chloromethane	2.838	50	8349m	0.124	ppbv	
9) Propene	2.729	41	30704m	0.511	ppbv	
10) Heptane	7.561	43	31945m	0.214	ppbv	
13) Ethanol	3.259	45	59212m	3.907	ppbv	
15) Acetone	3.484	43	573504	3.952	ppbv	92
19) Isopropyl Alcohol	3.600	45	12140m	0.160	ppbv	
20) Methylene Chloride	3.941	84	95959	1.855	ppbv	92
23) Vinyl Acetate	4.629	43	96476m	0.603	ppbv	
25) Ethyl Acetate	5.208	43	226601	0.901	ppbv #	80
26) Hexane	5.211	57	316649	2.842	ppbv #	36
29) Chloroform	5.266	83	21766	0.116	ppbv	91
34) 2-Butanone	4.790	43	596604	3.424	ppbv	97
38) Trichloroethene	7.272	130	11158	0.115	ppbv #	80
44) 2,2,4-Trimethylpentane	7.307	57	50439m	0.115	ppbv	
51) 2-Hexanone	9.529	43	328230	1.728	ppbv #	97
52) Tetrachloroethene	10.587	164	1067601	12.308	ppbv	97
53) Toluene	9.195	91	78608	0.275	ppbv	96
59) m/p-Xylene	12.317	91	60503m	0.191	ppbv	
60) o-Xylene	13.021	91	28848m	0.097	ppbv	
74) 1,2,4-Trimethylbenzene	16.069	105	33000m	0.105	ppbv	

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

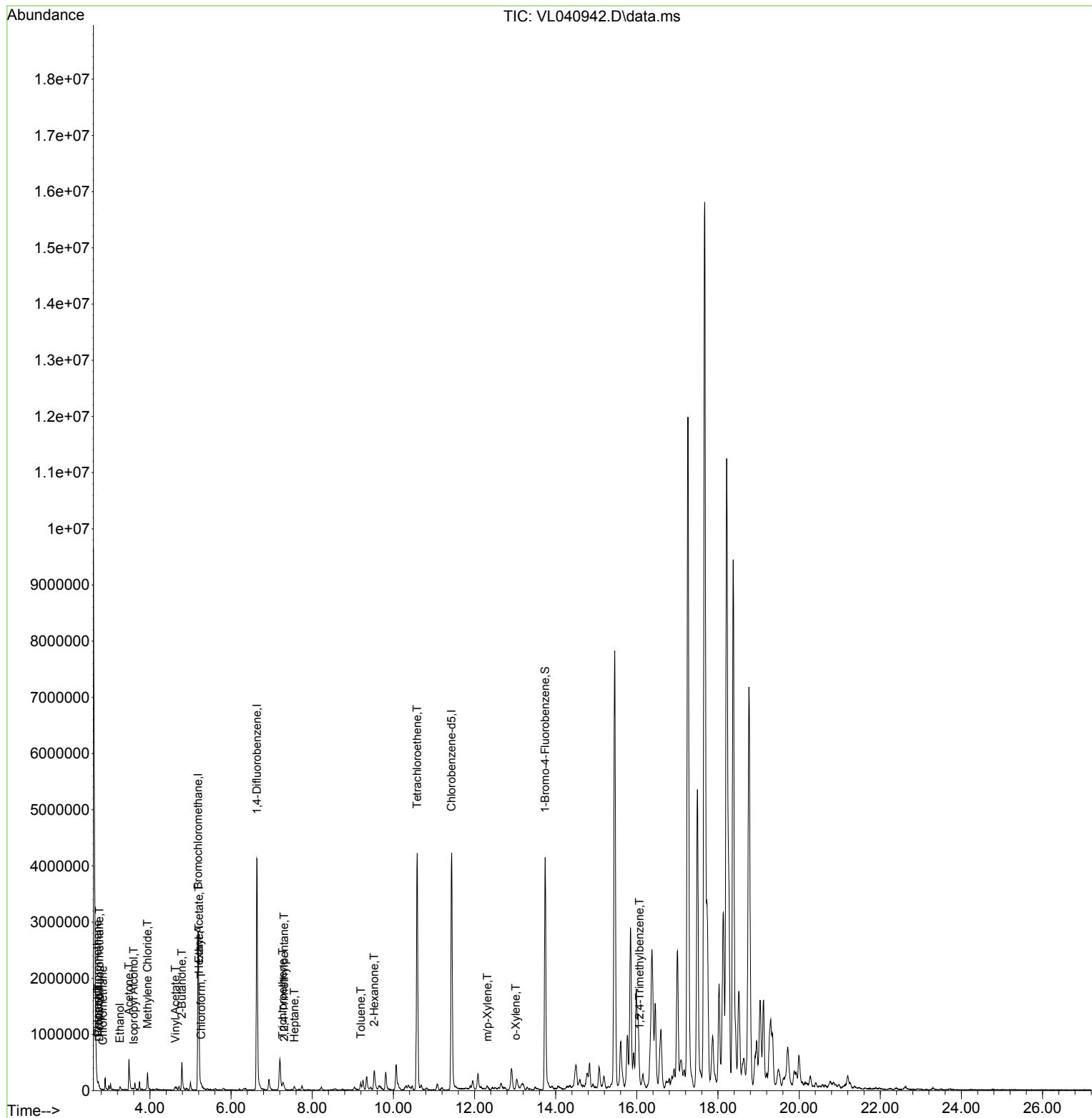
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
Data File : VL040942.D
Acq On : 21 Dec 2023 22:56
Operator : SY/MD
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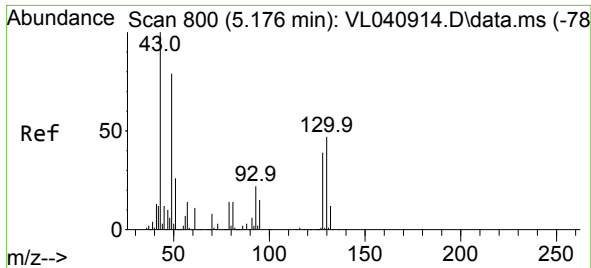
Instrument :
MSVOA_L
ClientSampleId :
SV3

Quant Time: Dec 22 00:12:48 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 21 07:32:42 2023
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Manual Integrations
APPROVED

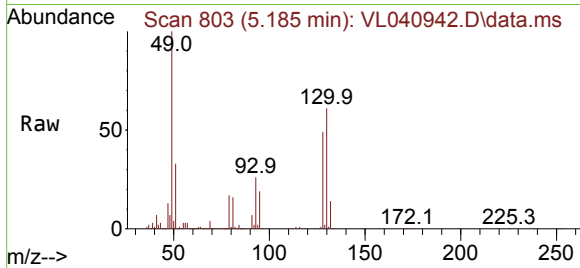
Reviewed By : Semsettin Yesilyurt 12/22/2023
Supervised By : Mahesh Dadoda 12/26/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. 0.009 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

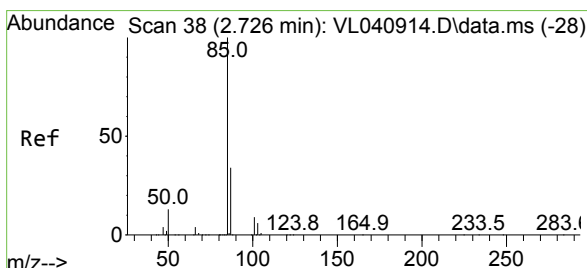
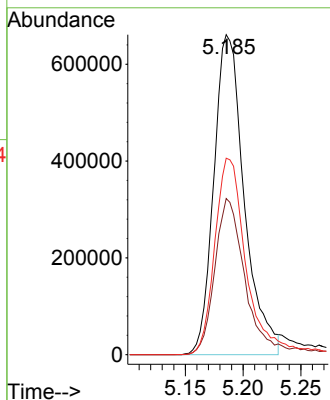
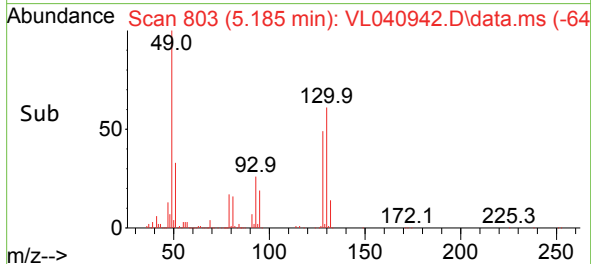
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 49 Resp: 120984
Ion Ratio Lower Upper
49 100
128 51.1 23.8 71.2
130 65.9 30.1 90.5

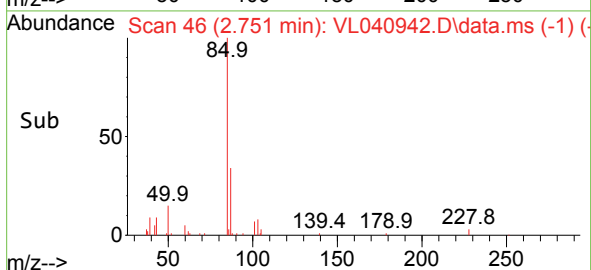
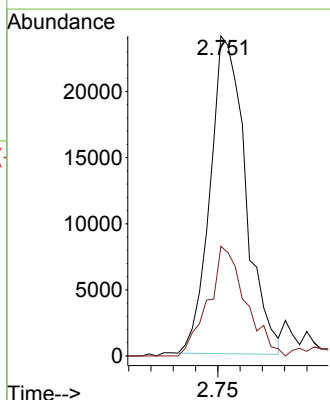
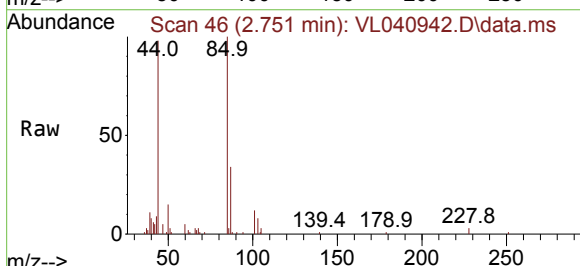
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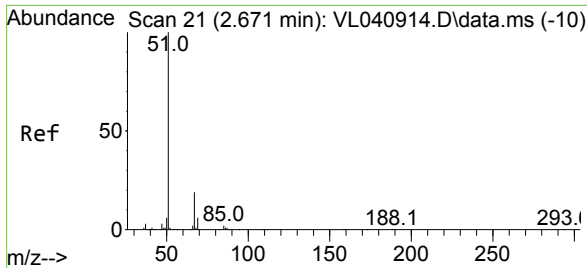
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#2
Dichlorodifluoromethane
Concen: 0.115 ppbv
RT: 2.751 min Scan# 46
Delta R.T. 0.026 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

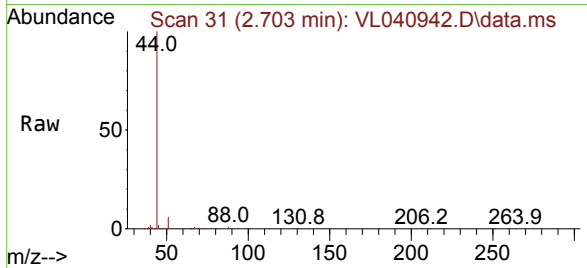
Tgt Ion: 85 Resp: 26565
Ion Ratio Lower Upper
85 100
87 34.6 27.0 40.6





#3
Chlorodifluoromethane
Concen: 0.103 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.032 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

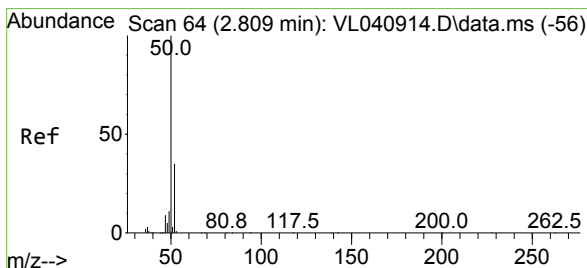
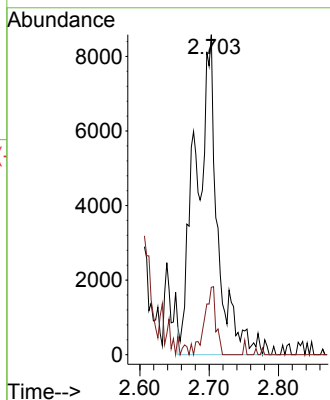
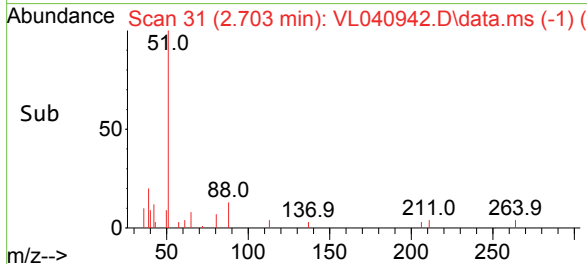
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 51 Resp: 18774
Ion Ratio Lower Upper
51 100
67 11.4 14.7 22.1

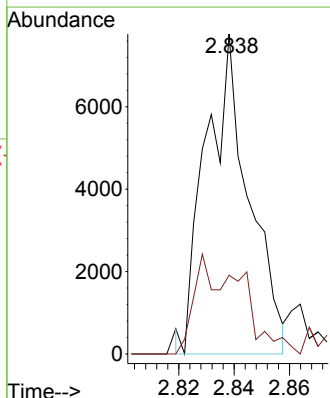
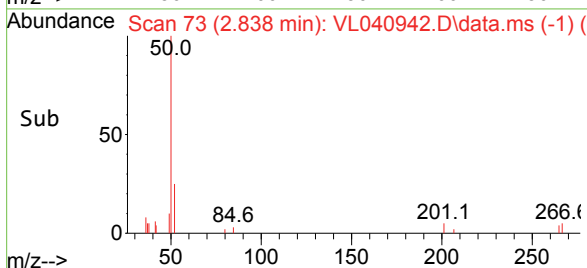
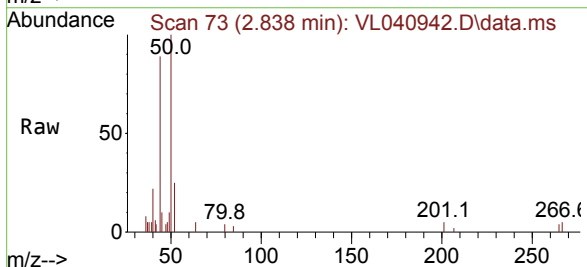
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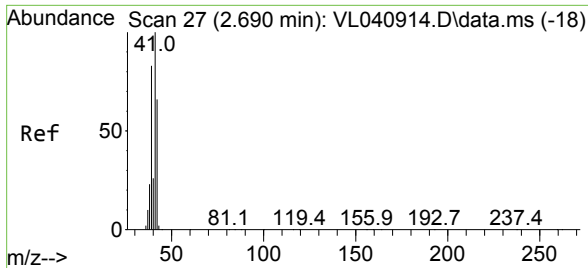
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#4
Chloromethane
Concen: 0.124 ppbv m
RT: 2.838 min Scan# 73
Delta R.T. 0.029 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

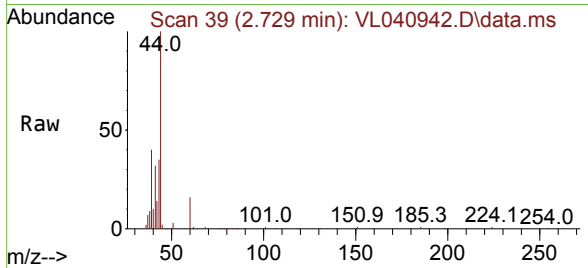
Tgt Ion: 50 Resp: 8349
Ion Ratio Lower Upper
50 100
52 24.6 28.0 42.0





#9
 Propene
 Concen: 0.511 ppbv m
 RT: 2.729 min Scan# 39
 Delta R.T. 0.039 min
 Lab File: VL040942.D
 Acq: 21 Dec 2023 22:56

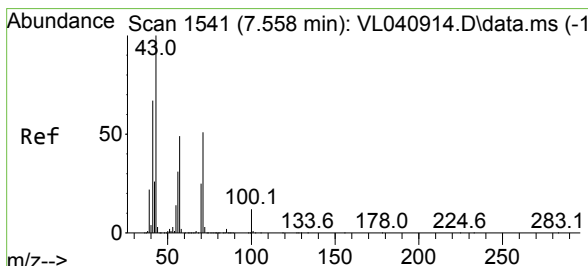
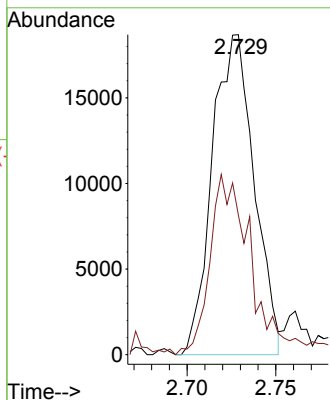
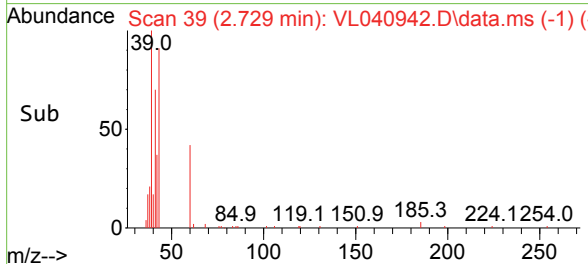
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3



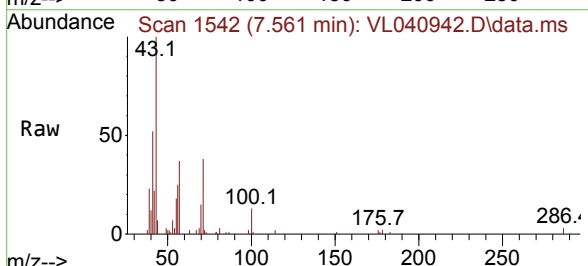
Tgt Ion: 41 Resp: 30704
 Ion Ratio Lower Upper
 41 100
 42 57.0 55.8 83.6

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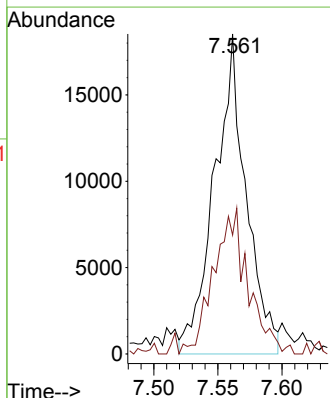
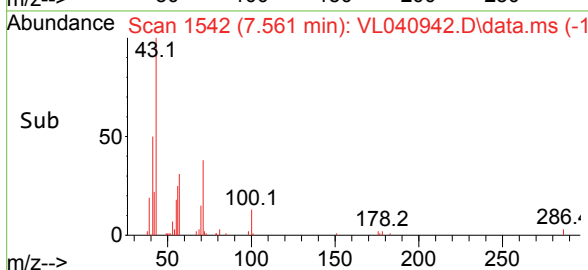
Reviewed By :Semsettin Yesilyurt 12/22/2023
 Supervised By :Mahesh Dadoda 12/26/2023

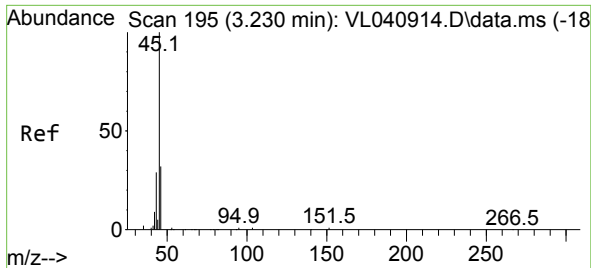


#10
 Heptane
 Concen: 0.214 ppbv m
 RT: 7.561 min Scan# 1542
 Delta R.T. 0.003 min
 Lab File: VL040942.D
 Acq: 21 Dec 2023 22:56



Tgt Ion: 43 Resp: 31945
 Ion Ratio Lower Upper
 43 100
 57 51.5 39.3 58.9





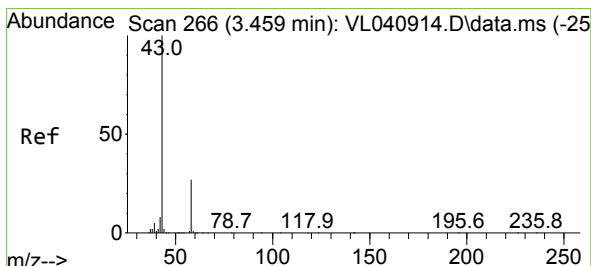
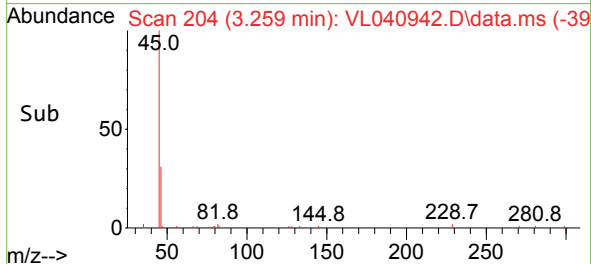
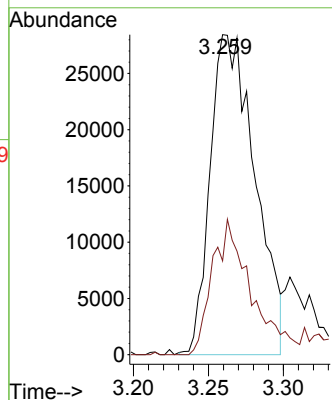
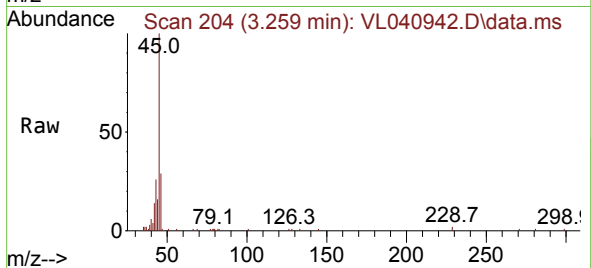
#13
Ethanol
Concen: 3.907 ppbv m
RT: 3.259 min Scan# 204
Delta R.T. 0.029 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 45 Resp: 5921
Ion Ratio Lower Upper
45 100
46 40.6 15.0 60.0

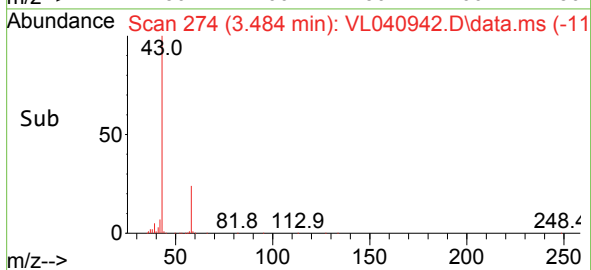
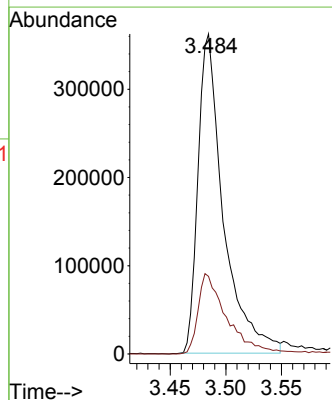
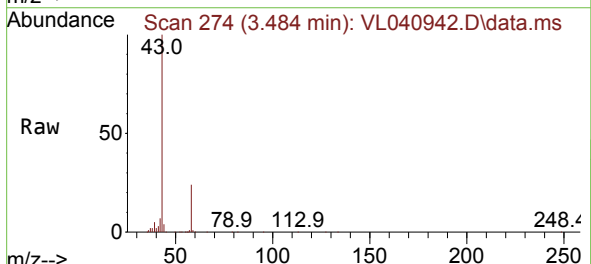
Manual Integrations
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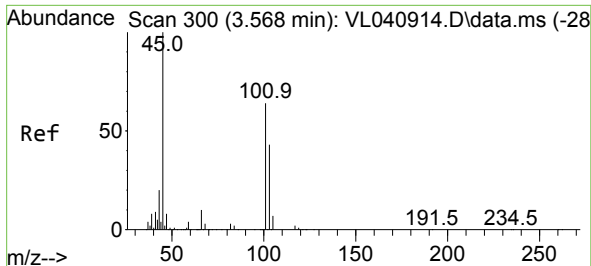
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#15
Acetone
Concen: 3.952 ppbv
RT: 3.484 min Scan# 274
Delta R.T. 0.026 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

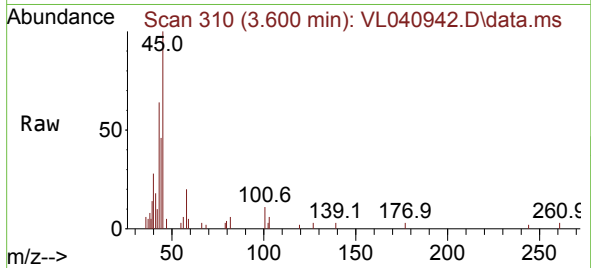
Tgt Ion: 43 Resp: 573504
Ion Ratio Lower Upper
43 100
58 29.8 20.6 30.8





#19
Isopropyl Alcohol
Concen: 0.160 ppbv m
RT: 3.600 min Scan# 310
Delta R.T. 0.032 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

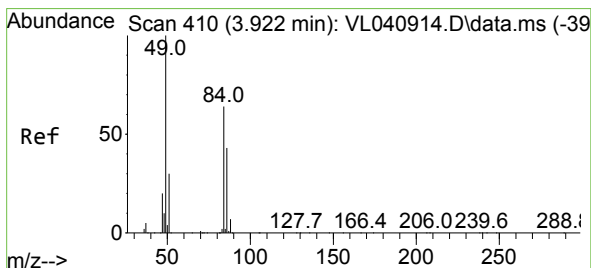
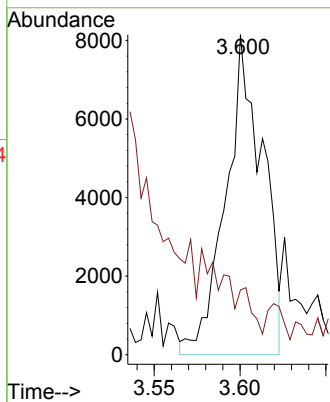
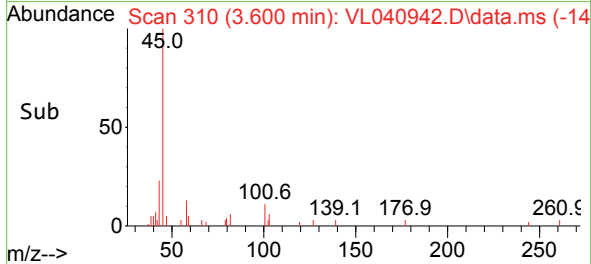
Instrument :
MSVOA_L
ClientSampleId :
SV3



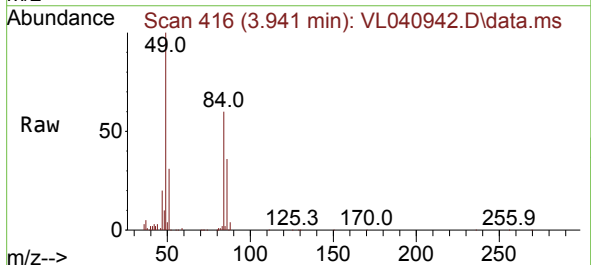
Tgt Ion: 45 Resp: 12140
Ion Ratio Lower Upper
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58 0.0 1.5 2.3

Manual Integrations
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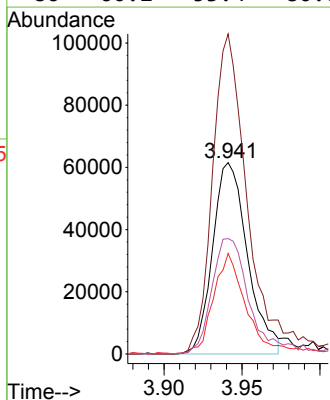
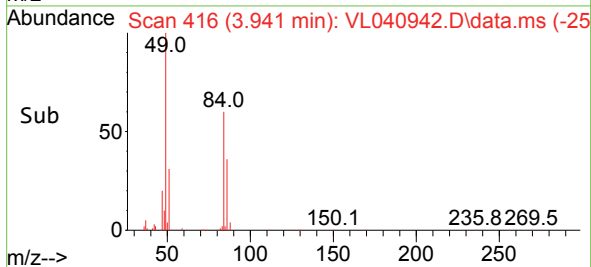
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

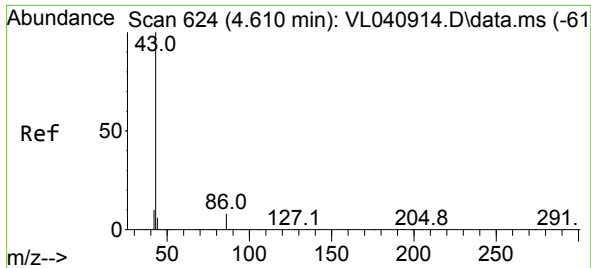


#20
Methylene Chloride
Concen: 1.855 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.019 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56



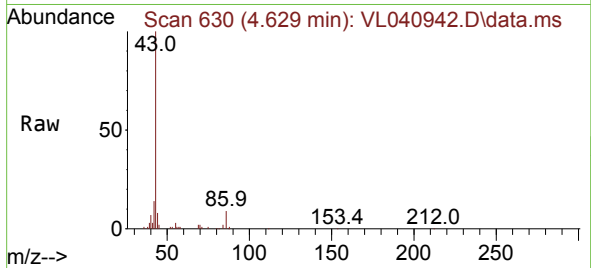
Tgt Ion: 84 Resp: 95959
Ion Ratio Lower Upper
84 100
49 166.8 124.6 187.0
51 52.2 37.2 55.8
86 60.2 53.4 80.0





#23
 Vinyl Acetate
 Concen: 0.603 ppbv m
 RT: 4.629 min Scan# 61
 Delta R.T. 0.019 min
 Lab File: VL040942.D
 Acq: 21 Dec 2023 22:56

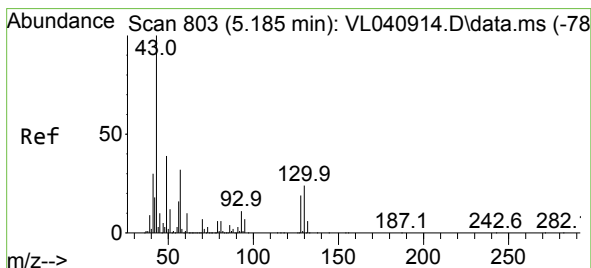
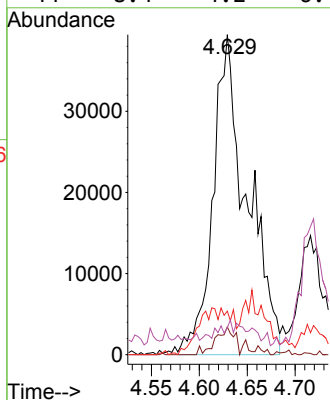
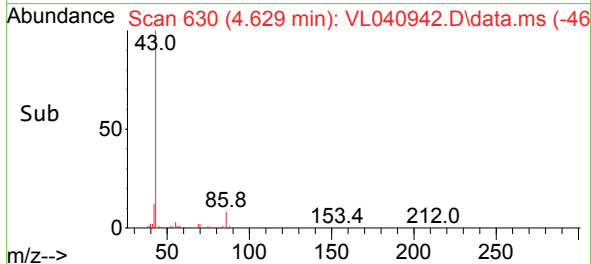
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3



Tgt Ion: 43 Resp: 96470
 Ion Ratio Lower Upper
 43 100
 86 8.7 5.5 8.3#
 42 13.6 8.4 12.6#
 44 8.4 4.2 6.4#

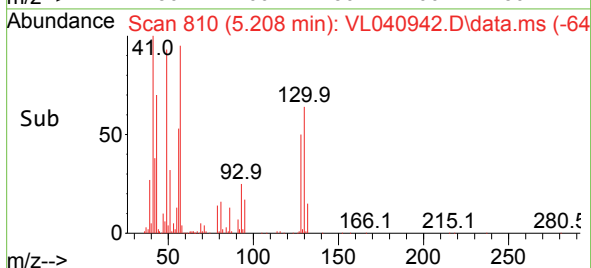
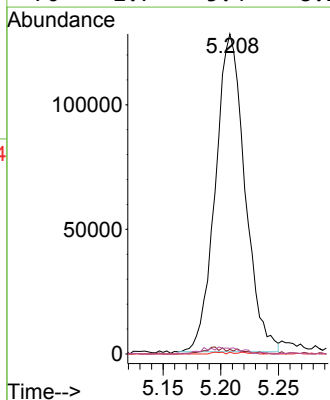
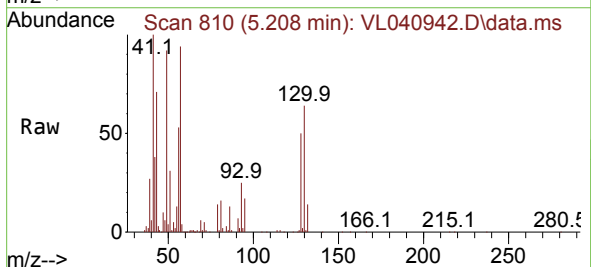
Manual Integrations
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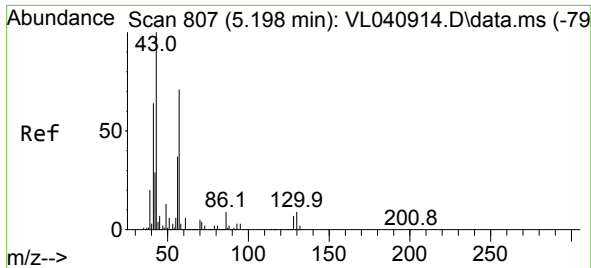
Reviewed By :Semsettin Yesilyurt 12/22/2023
 Supervised By :Mahesh Dadoda 12/26/2023



#25
 Ethyl Acetate
 Concen: 0.901 ppbv
 RT: 5.208 min Scan# 810
 Delta R.T. 0.023 min
 Lab File: VL040942.D
 Acq: 21 Dec 2023 22:56

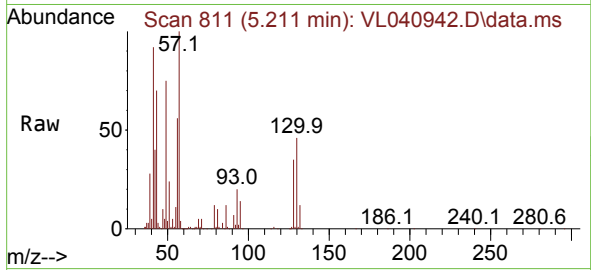
Tgt Ion: 43 Resp: 226601
 Ion Ratio Lower Upper
 43 100
 45 2.2 8.2 12.2#
 61 0.4 7.6 11.4#
 70 2.7 5.4 8.2#





#26
Hexane
Concen: 2.842 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

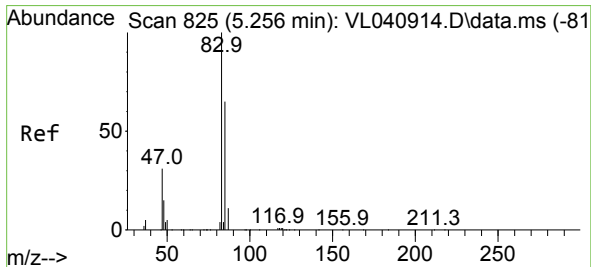
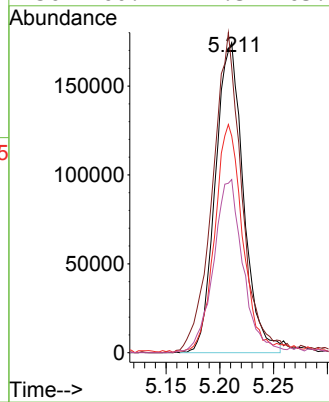
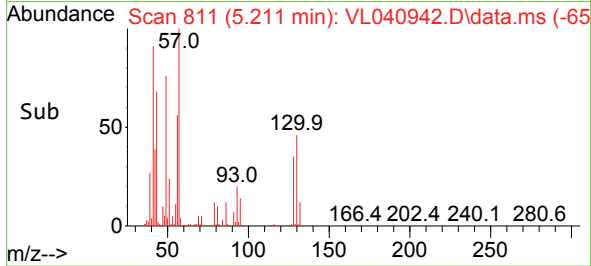
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 57 Resp: 316649
Ion Ratio Lower Upper
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41 110.6 75.2 112.8
43 77.4 188.0 282.0
56 60.4 42.3 63.5

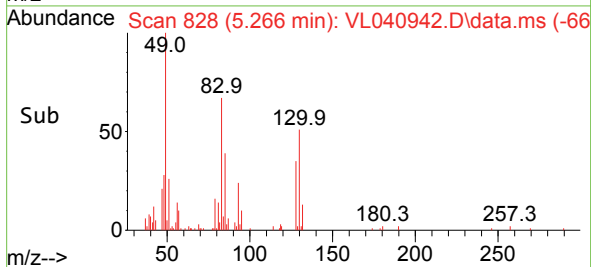
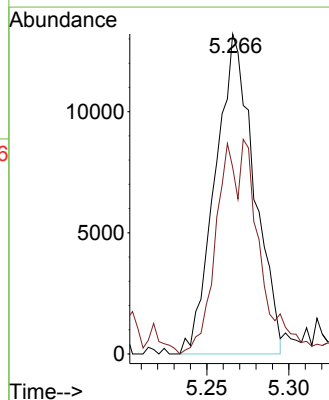
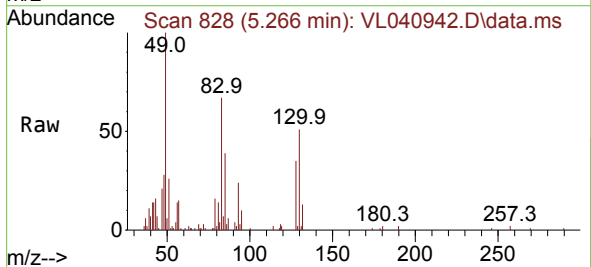
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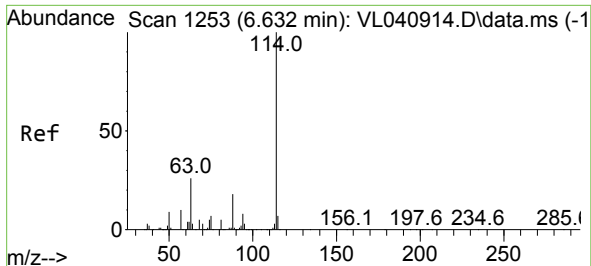
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#29
Chloroform
Concen: 0.116 ppbv
RT: 5.266 min Scan# 828
Delta R.T. 0.010 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

Tgt Ion: 83 Resp: 21766
Ion Ratio Lower Upper
83 100
85 58.3 52.3 78.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL040942.D

Acq: 21 Dec 2023 22:56

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion:114 Resp: 329379

Ion Ratio Lower Upper

114 100

63 24.3 21.0 31.6

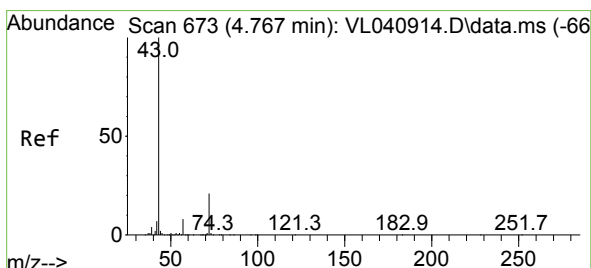
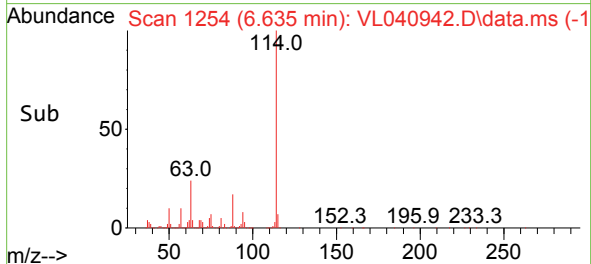
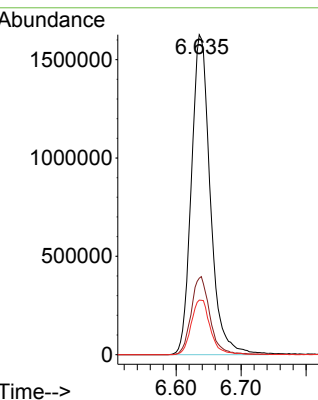
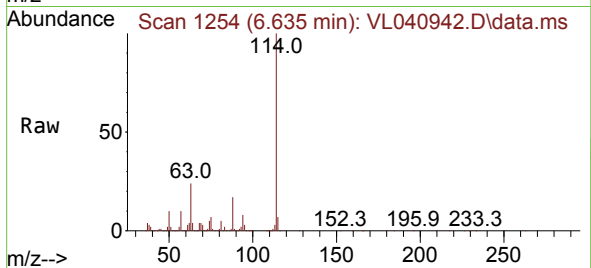
88 17.4 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023

Supervised By :Mahesh Dadoda 12/26/2023



#34

2-Butanone

Concen: 3.424 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.023 min

Lab File: VL040942.D

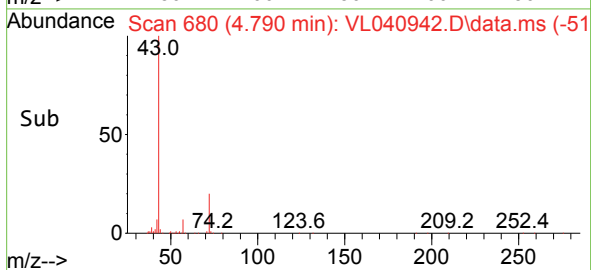
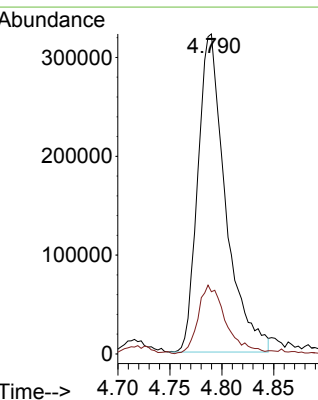
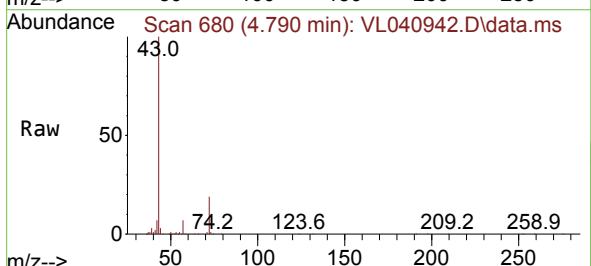
Acq: 21 Dec 2023 22:56

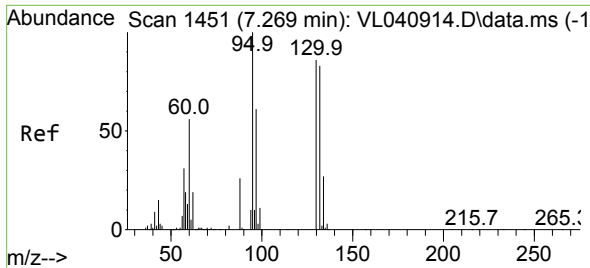
Tgt Ion: 43 Resp: 596604

Ion Ratio Lower Upper

43 100

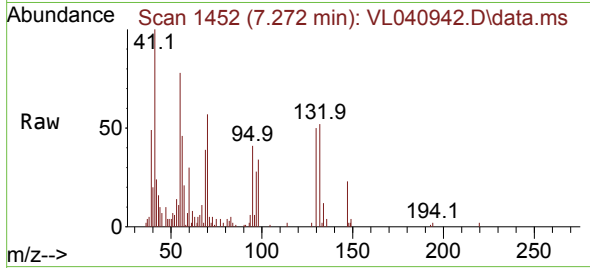
72 22.8 17.2 25.8





#38
Trichloroethene
Concen: 0.115 ppbv
RT: 7.272 min Scan# 1452
Delta R.T. 0.003 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

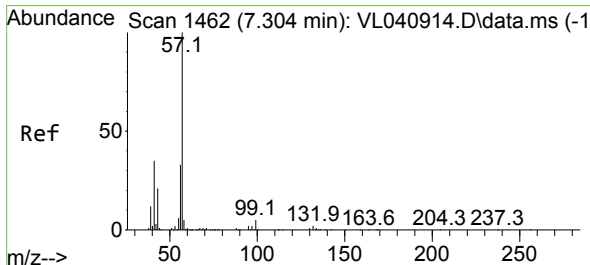
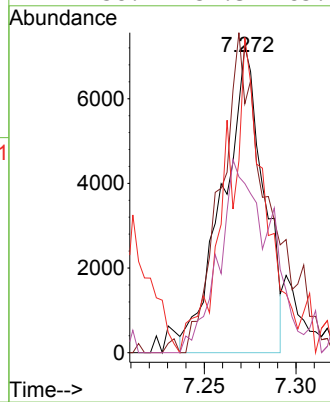
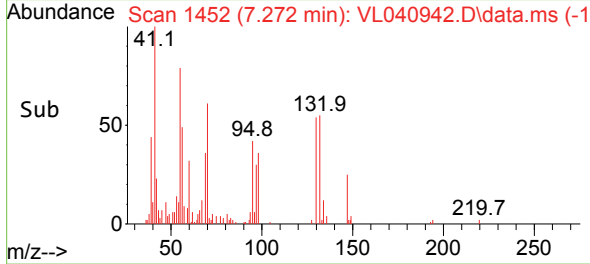
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 130 Resp: 11158
Ion Ratio Lower Upper
130 100
95 85.7 93.5 140.3#
132 108.5 77.4 116.2#
97 58.2 57.3 85.9#

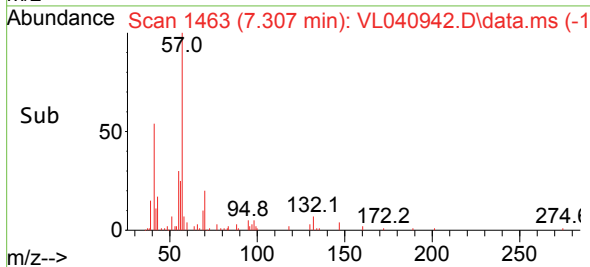
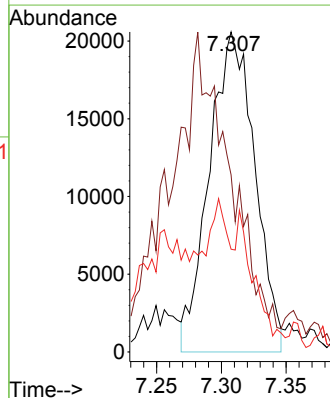
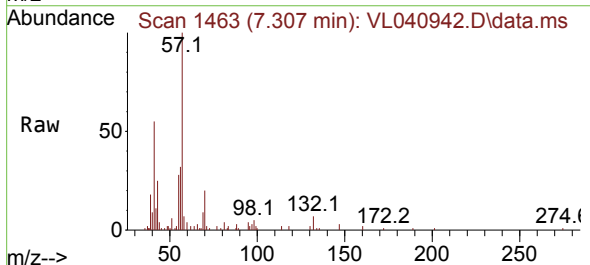
Manual Integrations
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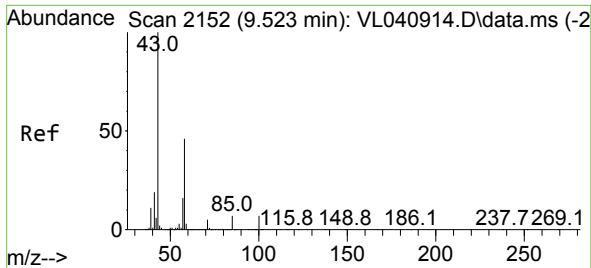
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#44
2,2,4-Trimethylpentane
Concen: 0.115 ppbv m
RT: 7.307 min Scan# 1463
Delta R.T. 0.003 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

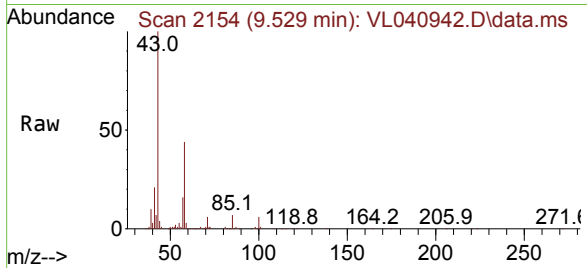
Tgt Ion: 57 Resp: 50439
Ion Ratio Lower Upper
57 100
41 0.0 28.2 42.4#
56 0.0 25.3 37.9#





#51
2-Hexanone
Concen: 1.728 ppbv
RT: 9.529 min Scan# 2152
Delta R.T. 0.007 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

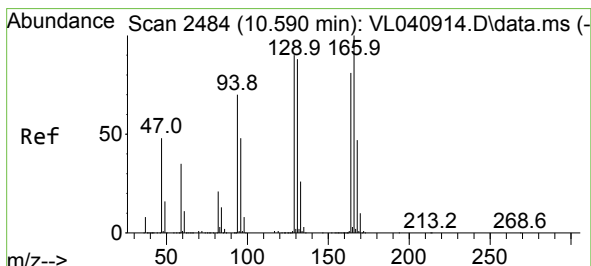
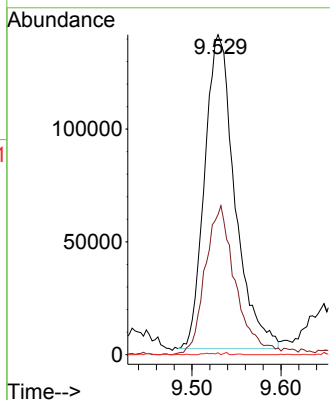
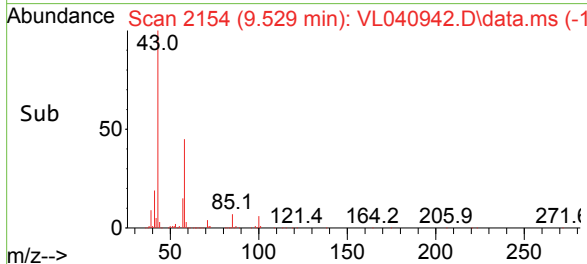
Instrument :
MSVOA_L
ClientSampleId :
SV3



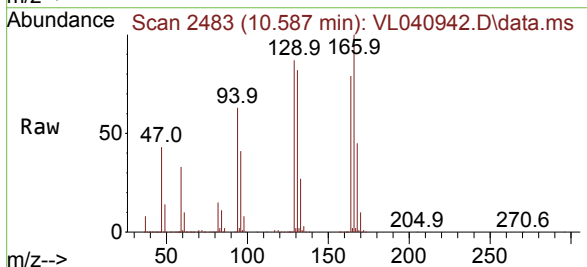
Tgt Ion: 43 Resp: 328230
Ion Ratio Lower Upper
43 100
58 48.9 37.3 55.9
98 0.3 0.2 0.2

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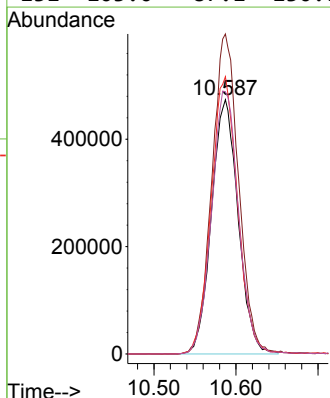
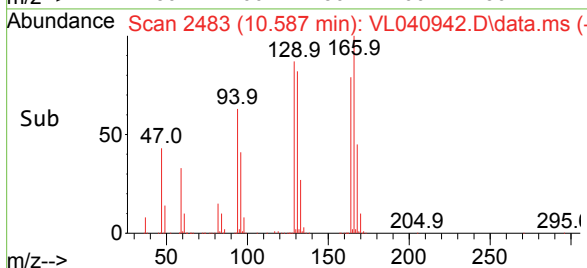
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

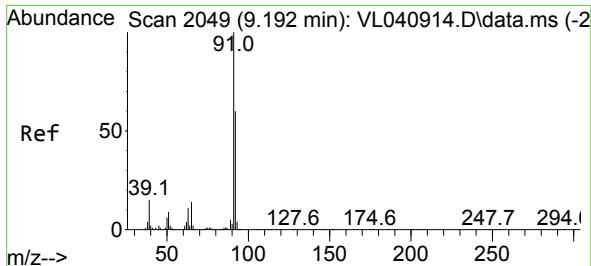


#52
Tetrachloroethene
Concen: 12.308 ppbv
RT: 10.587 min Scan# 2483
Delta R.T. -0.003 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56



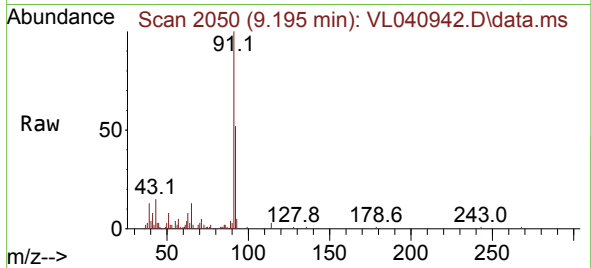
Tgt Ion:164 Resp: 1067601
Ion Ratio Lower Upper
164 100
166 125.8 98.9 148.3
129 109.1 88.7 133.1
131 103.0 87.1 130.7





#53
Toluene
Concen: 0.275 ppbv
RT: 9.195 min Scan# 2049
Delta R.T. 0.003 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

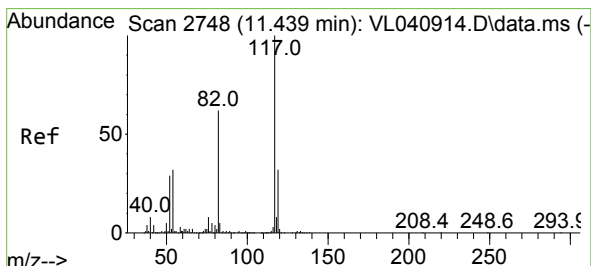
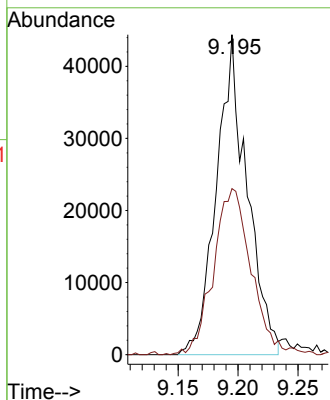
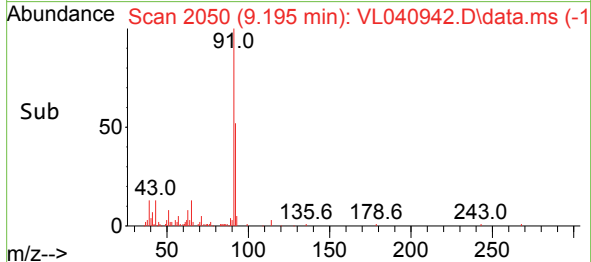
Instrument :
MSVOA_L
ClientSampleId :
SV3



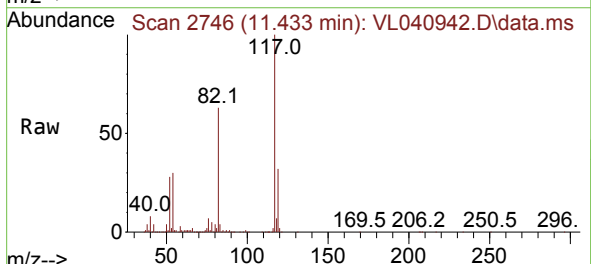
Tgt Ion: 91 Resp: 78608
Ion Ratio Lower Upper
91 100
92 64.6 49.2 73.8

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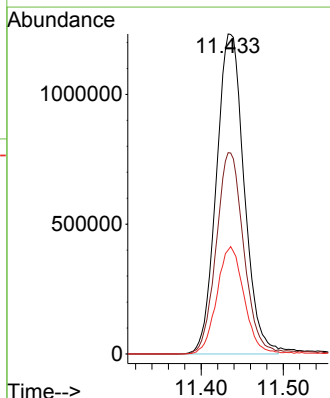
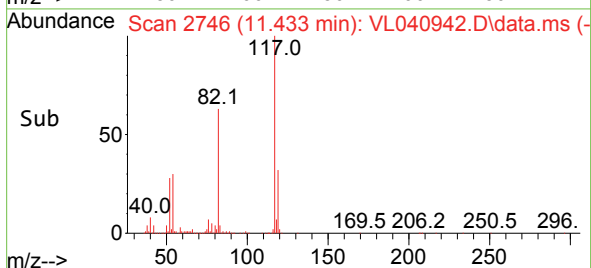
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

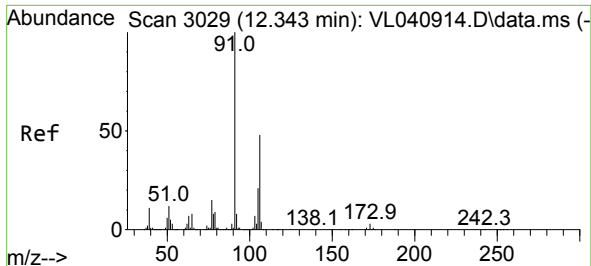


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.433 min Scan# 2746
Delta R.T. -0.006 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56



Tgt Ion:117 Resp: 2898867
Ion Ratio Lower Upper
117 100
82 63.3 49.6 74.4
119 33.2 23.4 35.0





#59

m/p-Xylene

Concen: 0.191 ppbv m

RT: 12.317 min Scan# 3029

Delta R.T. -0.026 min

Lab File: VL040942.D

Acq: 21 Dec 2023 22:56

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion: 91 Resp: 6050

Ion Ratio Lower Upper

91 100

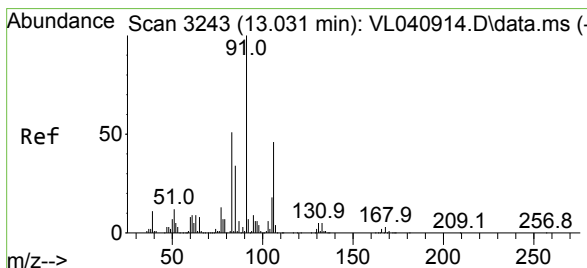
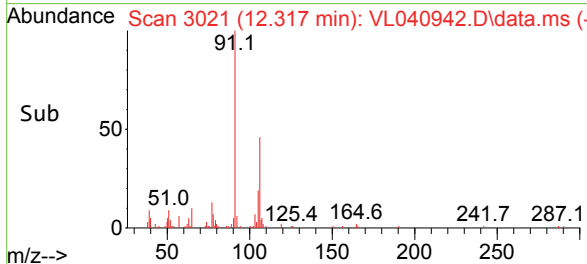
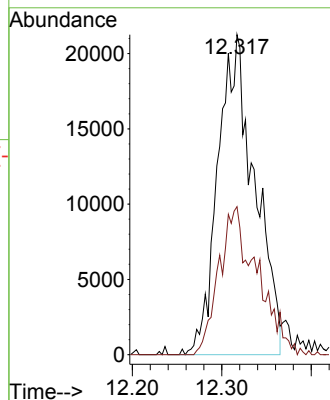
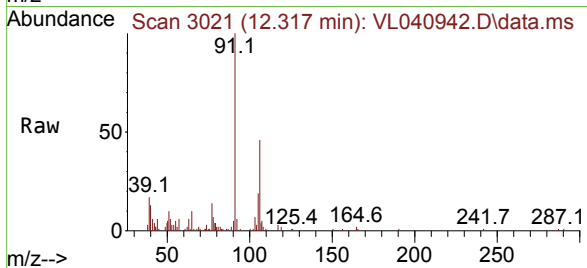
106 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023

Supervised By :Mahesh Dadoda 12/26/2023



#60

o-Xylene

Concen: 0.097 ppbv m

RT: 13.021 min Scan# 3240

Delta R.T. -0.010 min

Lab File: VL040942.D

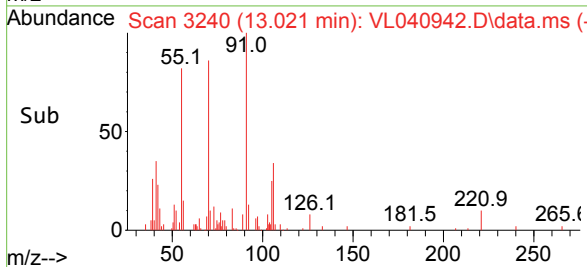
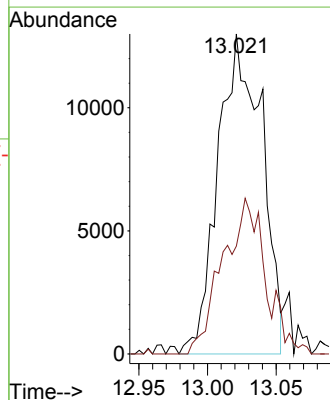
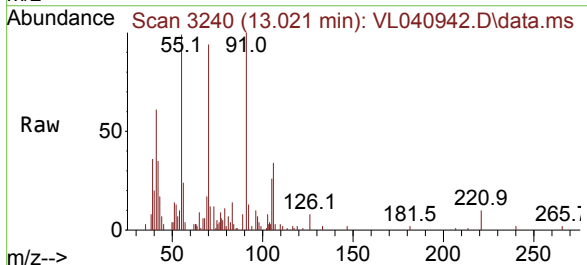
Acq: 21 Dec 2023 22:56

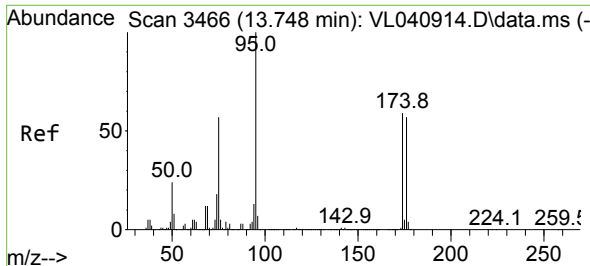
Tgt Ion: 91 Resp: 28848

Ion Ratio Lower Upper

91 100

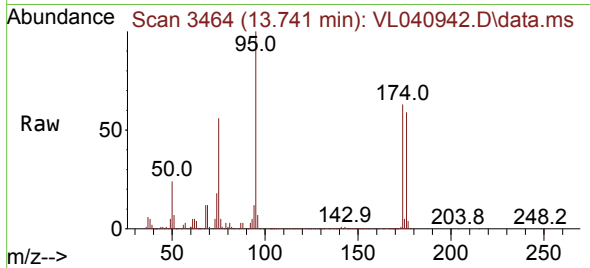
106 47.6 22.6 67.7





#68
1-Bromo-4-Fluorobenzene
Concen: 10.069 ppbv
RT: 13.741 min Scan# 3466
Delta R.T. -0.006 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

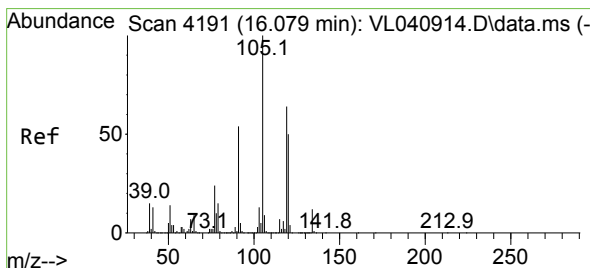
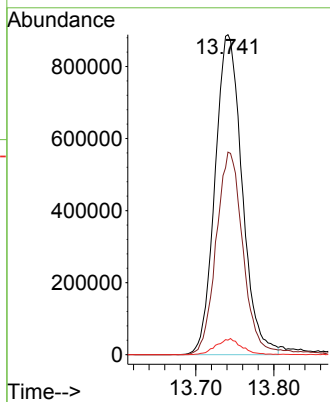
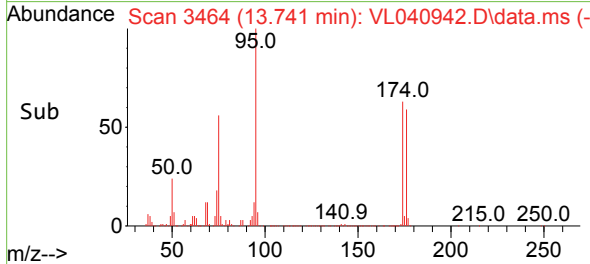
Instrument :
MSVOA_L
ClientSampleId :
SV3



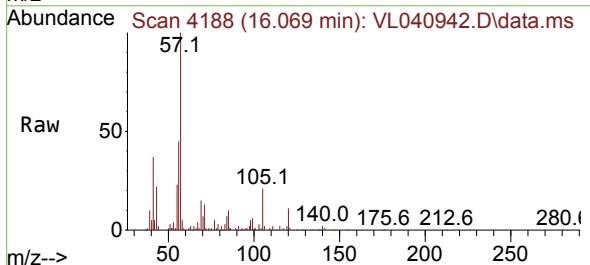
Tgt Ion: 95 Resp: 214996
Ion Ratio Lower Upper
95 100
174 63.5 48.0 72.0
175 4.8 3.7 5.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.105 ppbv m
RT: 16.069 min Scan# 4188
Delta R.T. -0.010 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56



Tgt Ion:105 Resp: 33000
Ion Ratio Lower Upper
105 100
120 54.7 40.2 60.4
91 10.8 43.0 64.6#
77 25.7 18.9 28.3

