

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
 Data File : VL040045.D
 Acq On : 20 Dec 2022 2:02
 Operator : SY/MD
 Sample : N6059-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2022
 Supervised By :Mahesh Dadoda 12/20/2022

Quant Time: Dec 20 05:19:02 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2022

QLast Update : Tue Dec 20 04:50:21 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.169	49	1001457	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.629	114	2764229	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.446	117	2463926	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1905916	10.126	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	19231m	0.103	ppbv	
9) Propene	2.674	41	35859	0.572	ppbv	87
10) Heptane	7.552	43	34712m	0.227	ppbv	
13) Ethanol	3.218	45	71861m	12.176	ppbv	
15) Acetone	3.446	43	690410	4.457	ppbv	95
17) tert-Butyl alcohol	3.864	59	38351	0.251	ppbv #	94
19) Isopropyl Alcohol	3.555	45	205708	2.694	ppbv #	97
20) Methylene Chloride	3.909	84	249630	3.791	ppbv	98
23) Vinyl Acetate	4.604	43	266660	5.429	ppbv #	97
26) Hexane	5.189	57	558466	4.953	ppbv #	33
29) Chloroform	5.250	83	128959	0.749	ppbv	97
34) 2-Butanone	4.771	43	105378	0.703	ppbv	92
51) 2-Hexanone	9.545	43	41191m	0.216	ppbv	
52) Tetrachloroethene	10.590	164	75437	0.899	ppbv	95
53) Toluene	9.195	91	154163	0.564	ppbv	100
59) m/p-Xylene	12.323	91	101813m	0.334	ppbv	
60) o-Xylene	13.040	91	64622m	0.221	ppbv	
72) 4-Ethyltoluene	15.169	105	34049m	0.105	ppbv	
73) 1,3,5-Trimethylbenzene	15.333	105	43504m	0.149	ppbv	
74) 1,2,4-Trimethylbenzene	16.089	105	177047	0.549	ppbv #	64

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

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Manual Integrations
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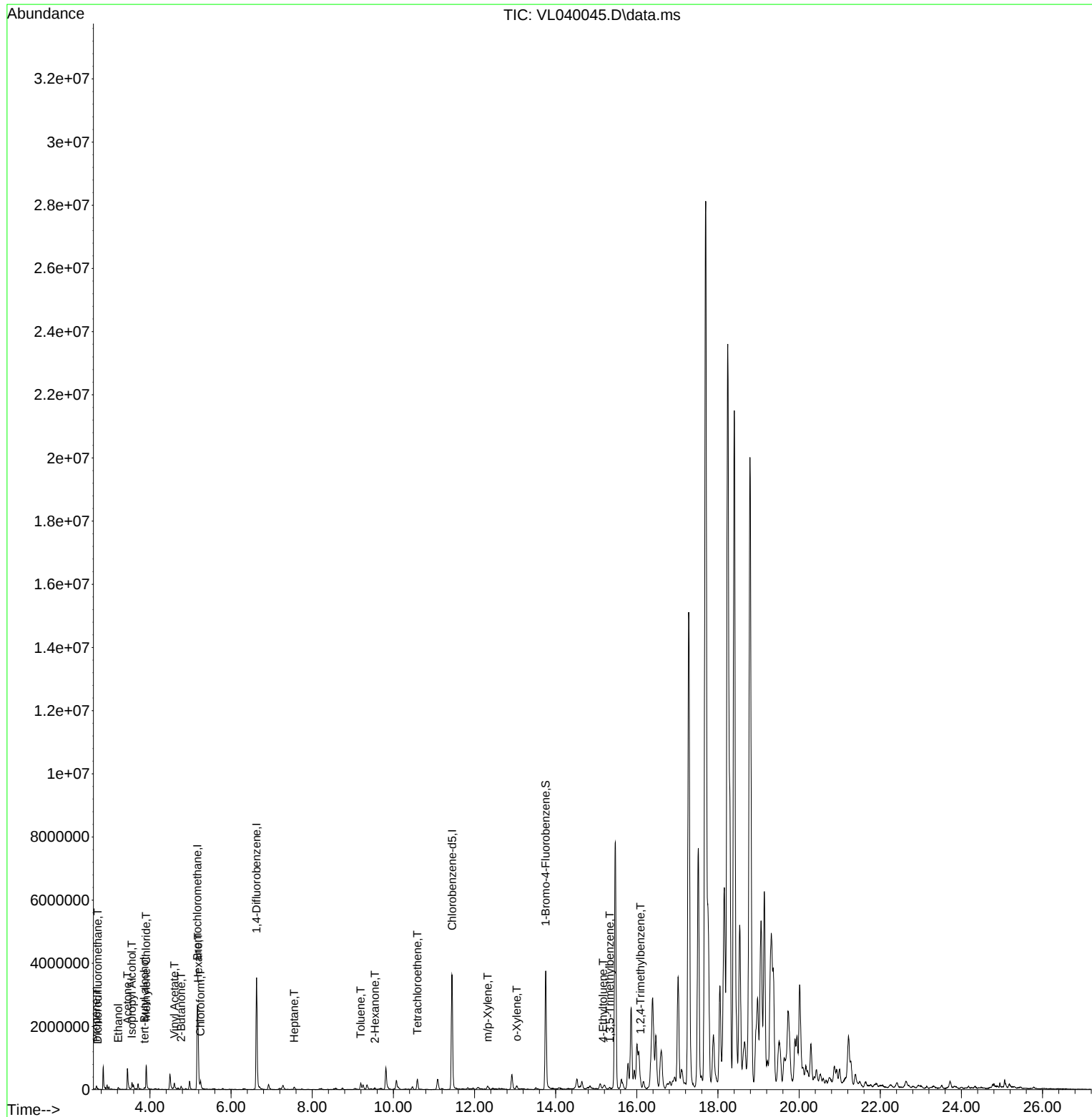
Quant Time: Dec 20 05:19:02 2022

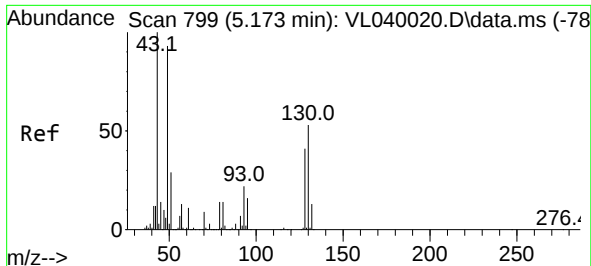
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M

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

QLast Update : Tue Dec 20 04:50:21 2022

Response via : Initial Calibration





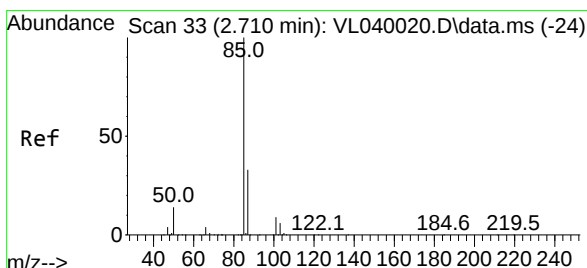
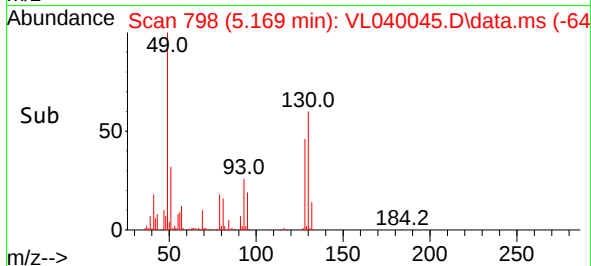
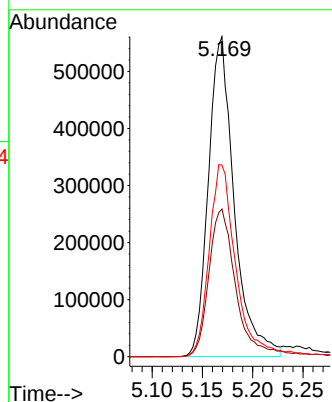
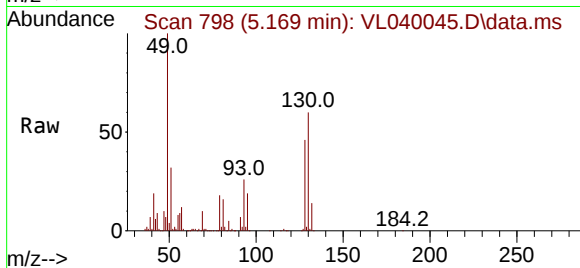
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 799
Delta R.T. -0.004 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 100145
Ion Ratio Lower Upper
49 100
128 49.8 22.4 67.3
130 64.0 28.9 86.8

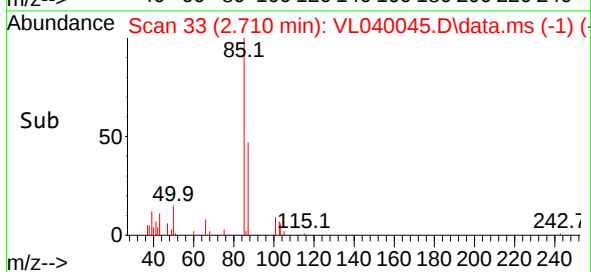
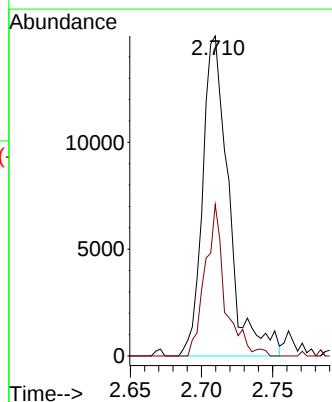
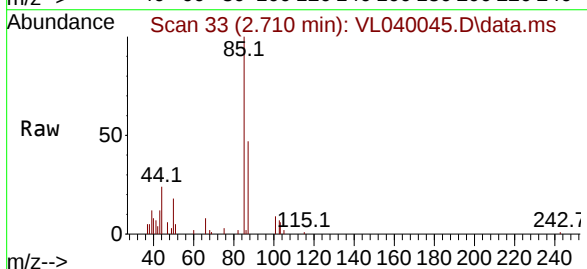
Manual Integrations
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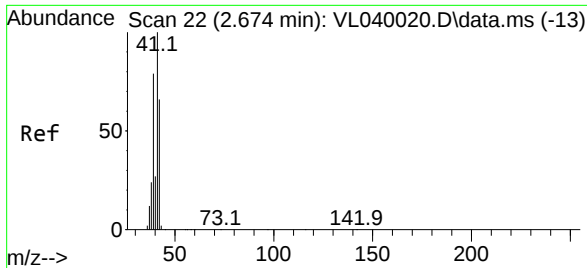
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#2
Dichlorodifluoromethane
Concen: 0.103 ppbv m
RT: 2.710 min Scan# 33
Delta R.T. 0.000 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

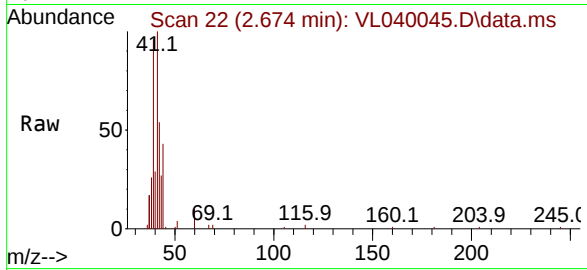
Tgt Ion: 85 Resp: 19231
Ion Ratio Lower Upper
85 100
87 47.3 26.6 40.0#





#9
 Propene
 Concen: 0.572 ppbv
 RT: 2.674 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VL040045.D
 Acq: 20 Dec 2022 2:02

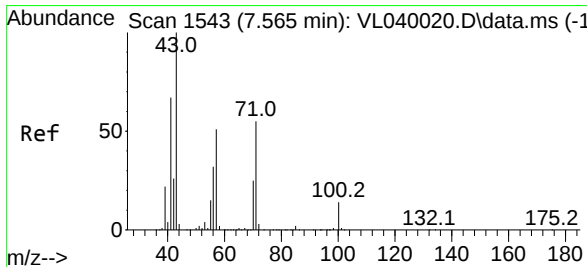
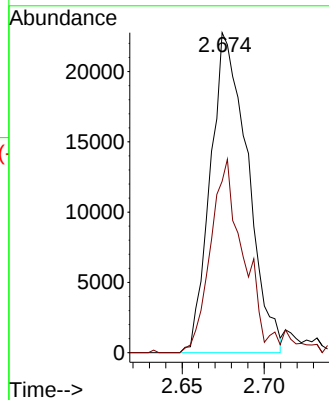
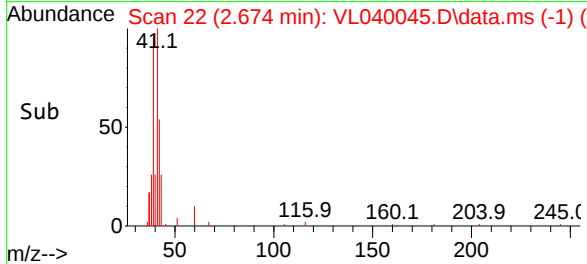
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



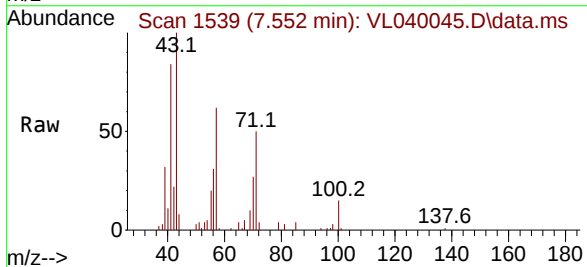
Tgt Ion: 41 Resp: 3585
 Ion Ratio Lower Upper
 41 100
 42 57.7 54.8 82.2

Manual Integrations
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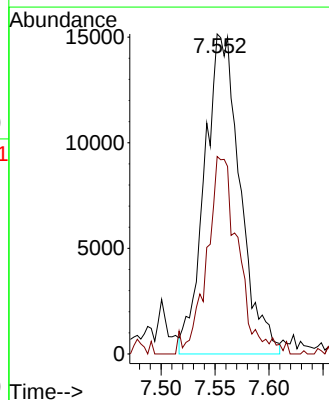
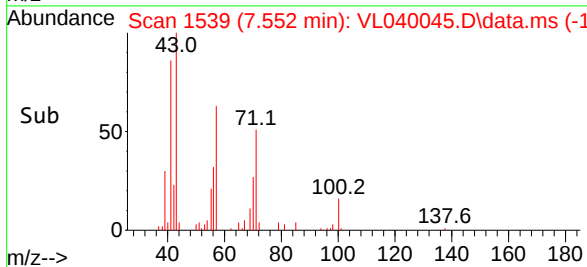
Reviewed By :Semsettin Yesilyurt 12/20/2022
 Supervised By :Mahesh Dadoda 12/20/2022

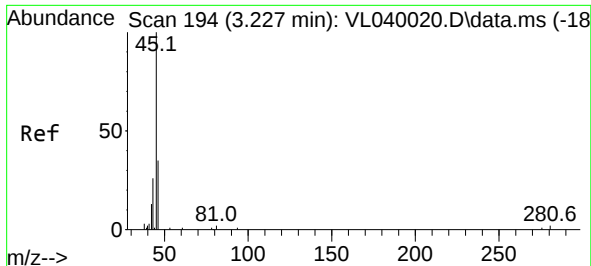


#10
 Heptane
 Concen: 0.227 ppbv m
 RT: 7.552 min Scan# 1539
 Delta R.T. -0.013 min
 Lab File: VL040045.D
 Acq: 20 Dec 2022 2:02



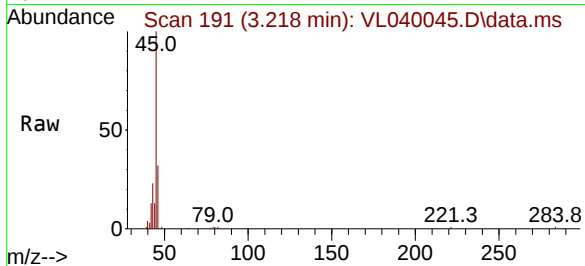
Tgt Ion: 43 Resp: 34712
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.2 61.8#





#13
Ethanol
Concen: 12.176 ppbv m
RT: 3.218 min Scan# 194
Delta R.T. -0.010 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

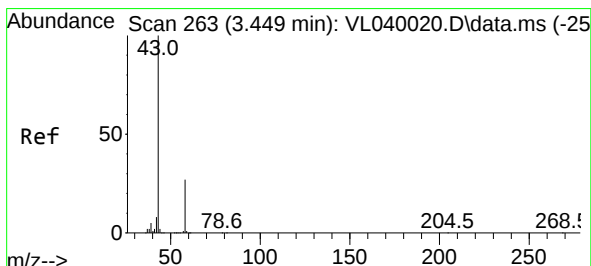
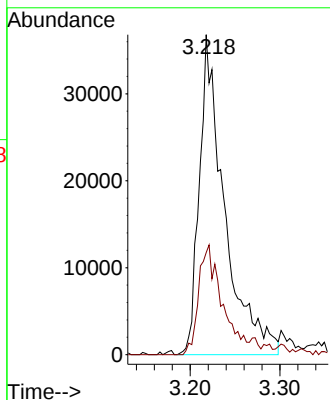
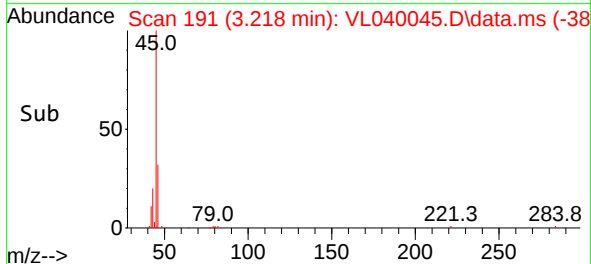
Instrument :
MSVOA_L
ClientSampleId :
SV2



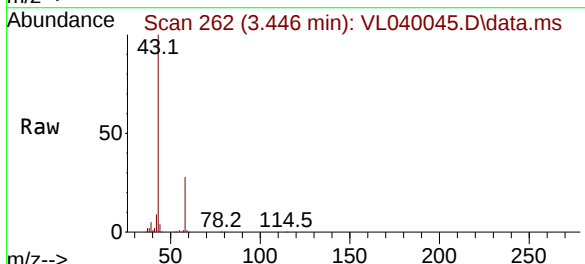
Tgt Ion: 45 Resp: 7186
Ion Ratio Lower Upper
45 100
46 37.2 13.7 54.7

Manual Integrations
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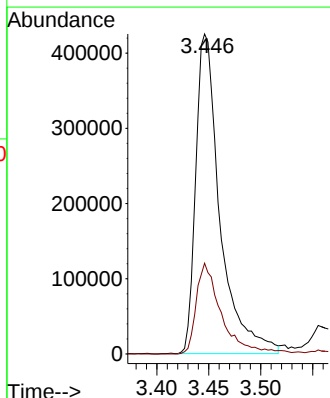
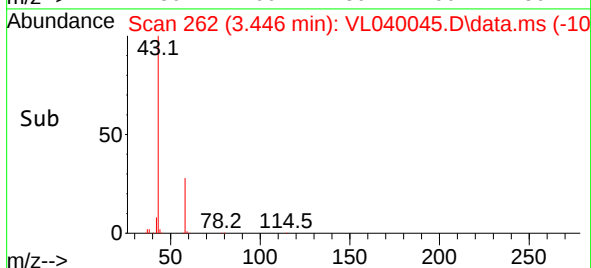
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022

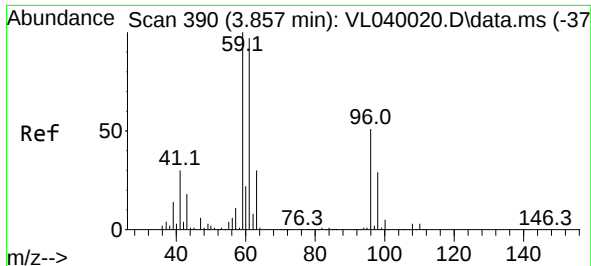


#15
Acetone
Concen: 4.457 ppbv
RT: 3.446 min Scan# 262
Delta R.T. -0.003 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02



Tgt Ion: 43 Resp: 690410
Ion Ratio Lower Upper
43 100
58 29.8 21.8 32.8





#17

tert-Butyl alcohol

Concen: 0.251 ppbv

RT: 3.864 min Scan# 390

Delta R.T. 0.006 min

Lab File: VL040045.D

Acq: 20 Dec 2022 2:02

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 59 Resp: 3835

Ion Ratio Lower Upper

59 100

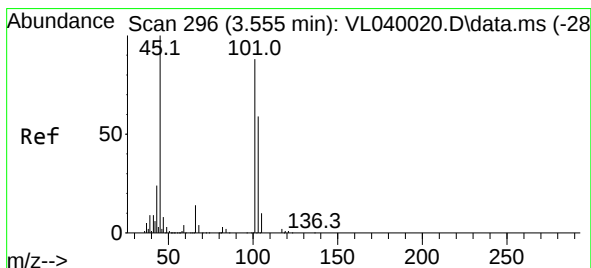
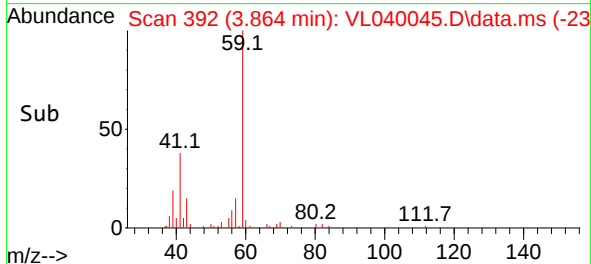
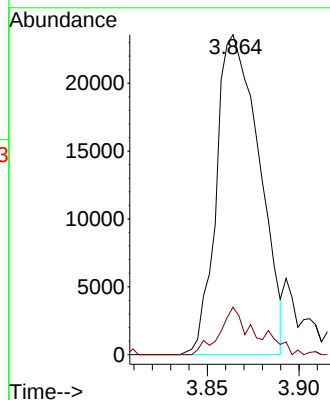
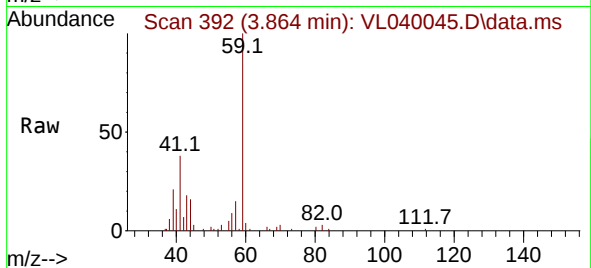
57 12.8 8.4 12.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2022

Supervised By :Mahesh Dadoda 12/20/2022



#19

Isopropyl Alcohol

Concen: 2.694 ppbv

RT: 3.555 min Scan# 296

Delta R.T. 0.000 min

Lab File: VL040045.D

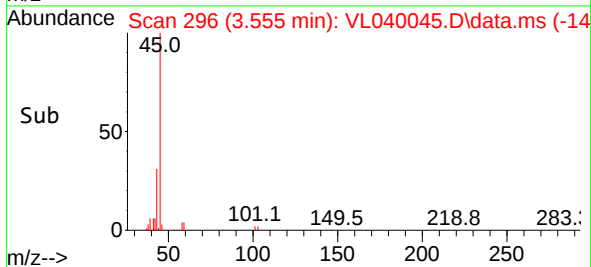
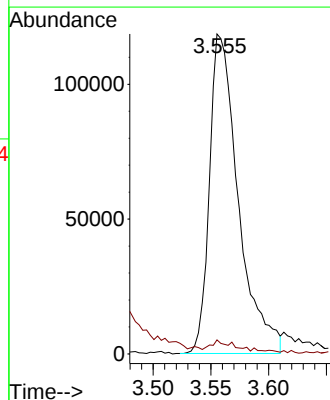
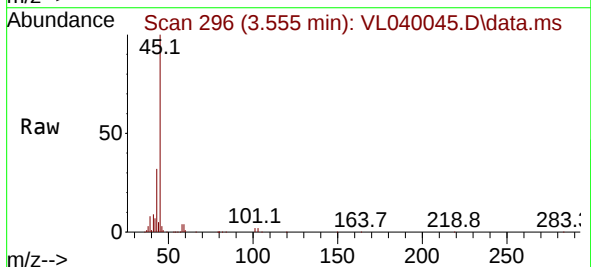
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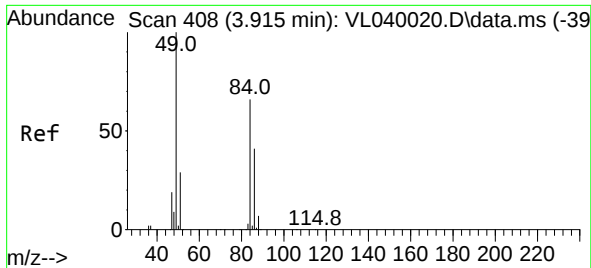
Tgt Ion: 45 Resp: 205708

Ion Ratio Lower Upper

45 100

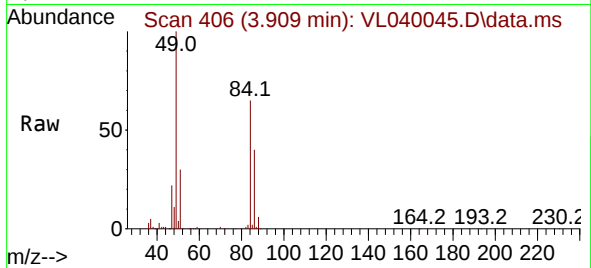
58 3.2 1.7 2.5





#20
Methylene Chloride
Concen: 3.791 ppbv
RT: 3.909 min Scan# 406
Delta R.T. -0.006 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

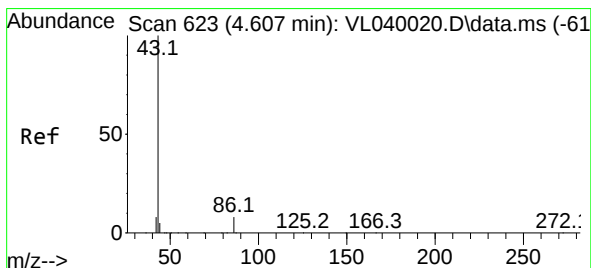
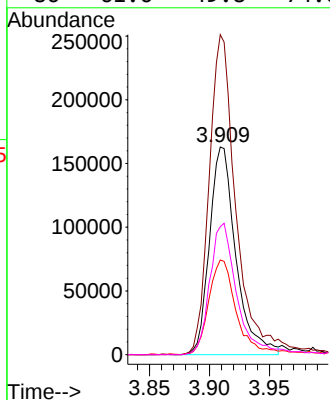
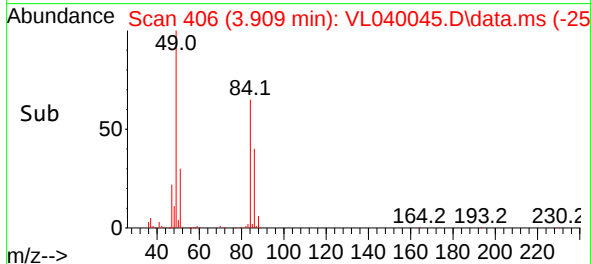
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 84 Resp: 249630
Ion Ratio Lower Upper
84 100
49 153.9 120.5 180.7
51 45.4 35.2 52.8
86 61.6 49.8 74.6

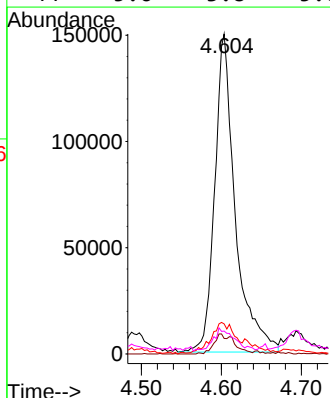
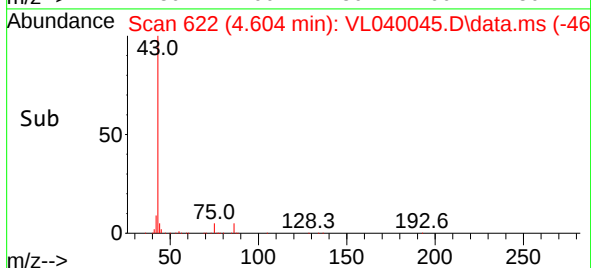
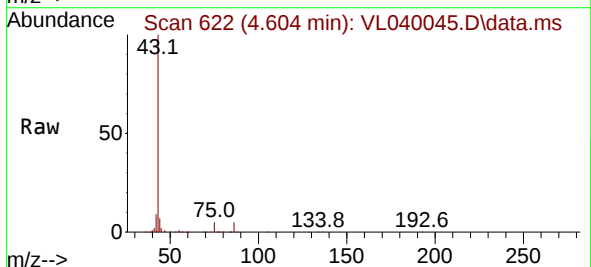
Manual Integrations
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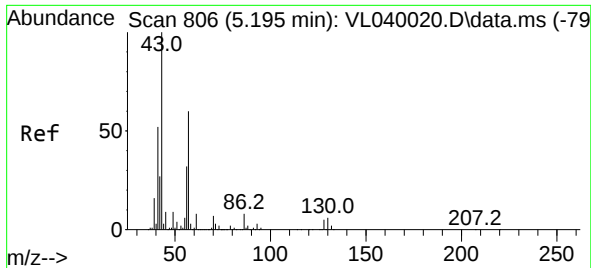
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#23
Vinyl Acetate
Concen: 5.429 ppbv
RT: 4.604 min Scan# 622
Delta R.T. -0.003 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

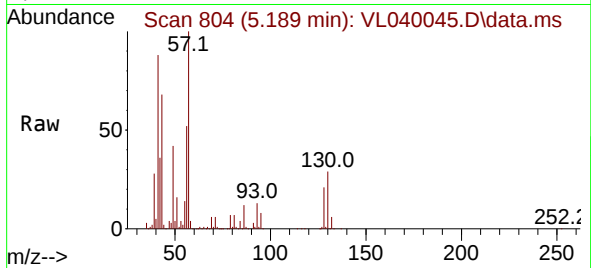
Tgt Ion: 43 Resp: 266660
Ion Ratio Lower Upper
43 100
86 4.9 5.3 7.9#
42 9.5 7.4 11.0
44 5.6 3.8 5.6#





#26
Hexane
Concen: 4.953 ppbv
RT: 5.189 min Scan# 806
Delta R.T. -0.006 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

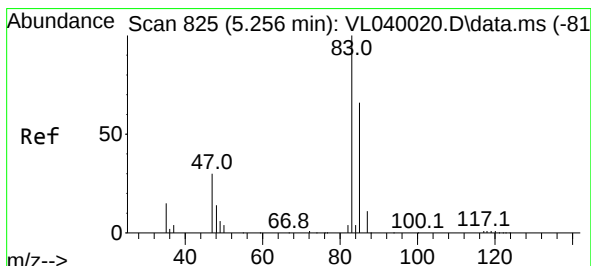
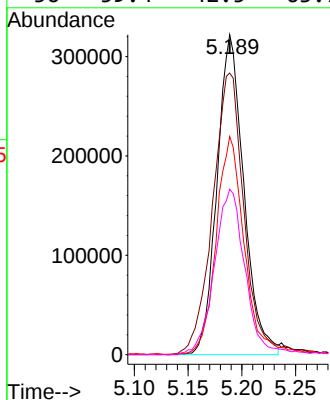
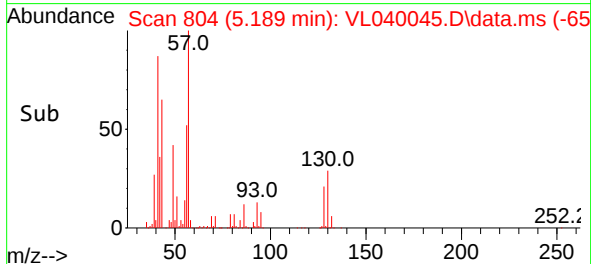
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 558460
Ion Ratio Lower Upper
57 100
41 104.3 72.1 108.1
43 71.7 192.1 288.1
56 59.4 42.5 63.7

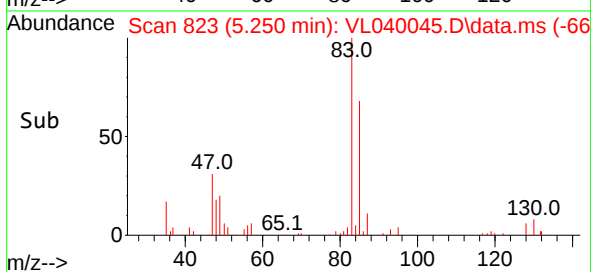
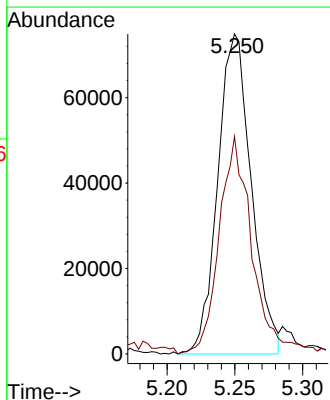
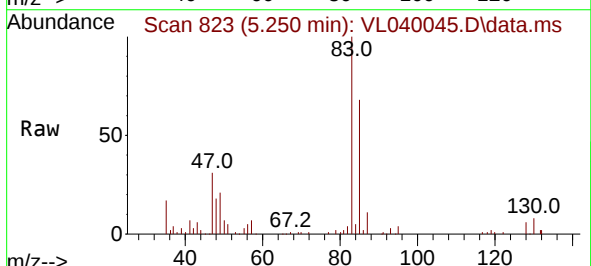
Manual Integrations
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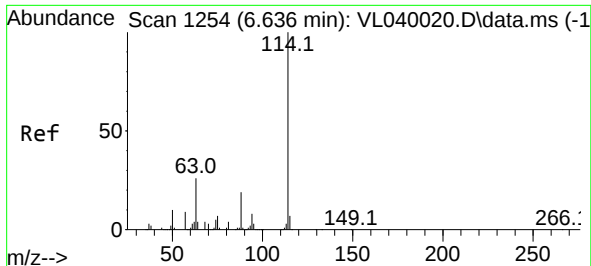
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#29
Chloroform
Concen: 0.749 ppbv
RT: 5.250 min Scan# 823
Delta R.T. -0.006 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

Tgt Ion: 83 Resp: 128959
Ion Ratio Lower Upper
83 100
85 68.0 52.4 78.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.629 min Scan# 1252

Delta R.T. -0.006 min

Lab File: VL040045.D

Acq: 20 Dec 2022 2:02

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:114 Resp: 2764229

Ion Ratio Lower Upper

114 100

63 24.6 20.2 30.2

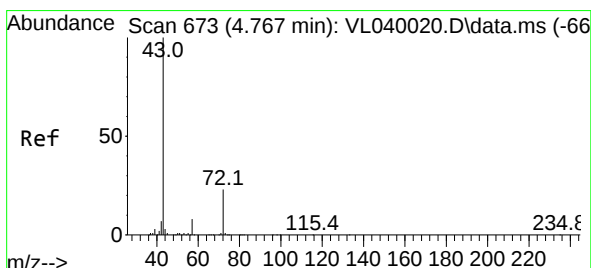
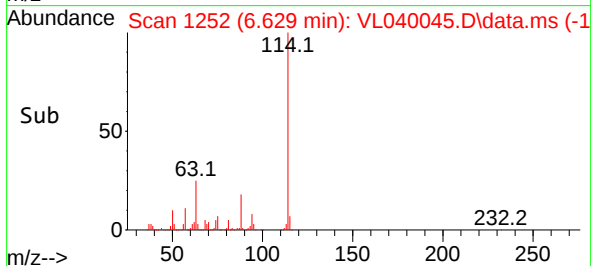
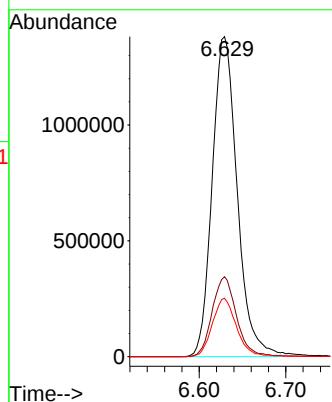
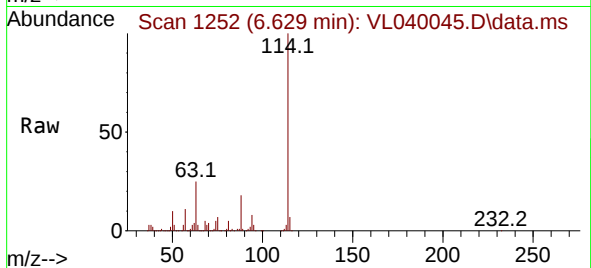
88 17.9 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2022

Supervised By :Mahesh Dadoda 12/20/2022



#34

2-Butanone

Concen: 0.703 ppbv

RT: 4.771 min Scan# 674

Delta R.T. 0.003 min

Lab File: VL040045.D

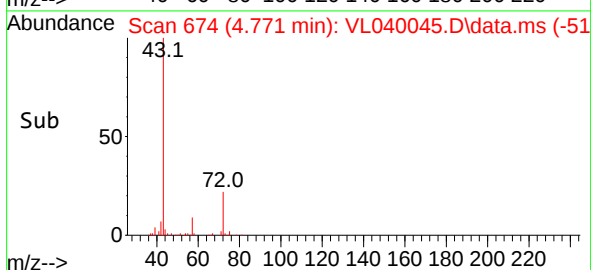
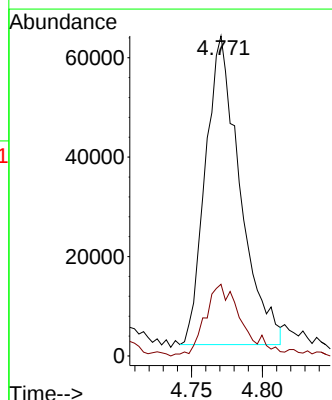
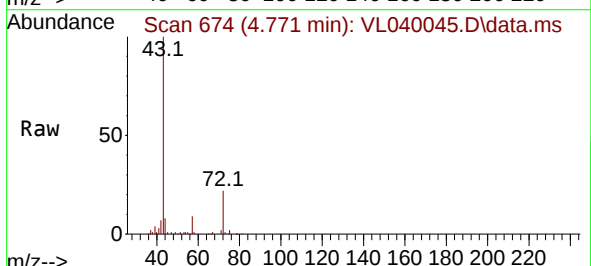
Acq: 20 Dec 2022 2:02

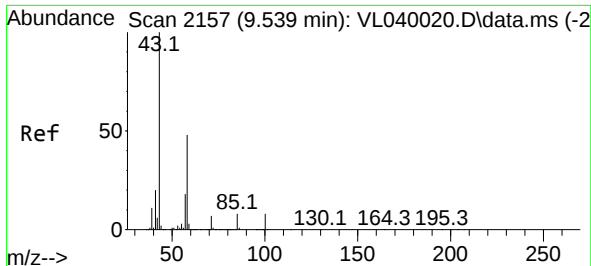
Tgt Ion: 43 Resp: 105378

Ion Ratio Lower Upper

43 100

72 26.3 18.0 27.0





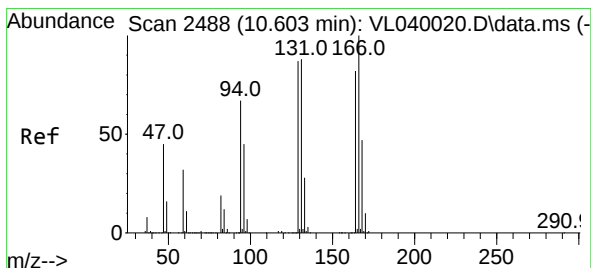
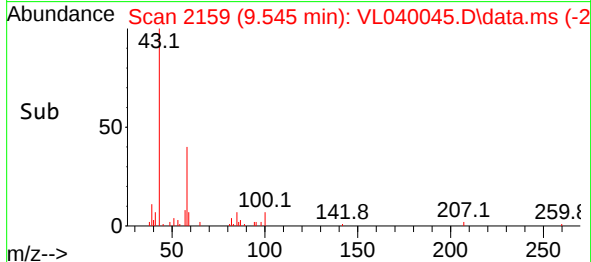
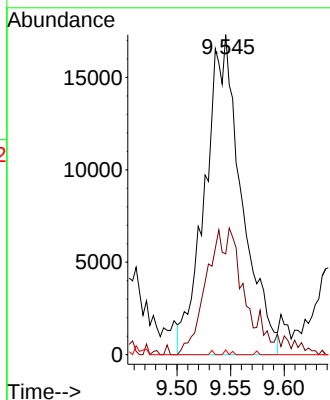
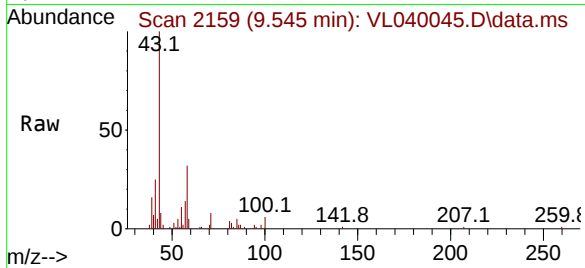
#51
2-Hexanone
Concen: 0.216 ppbv m
RT: 9.545 min Scan# 2157
Delta R.T. 0.006 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 4119
Ion Ratio Lower Upper
43 100
58 0.0 39.4 59.2
98 0.0 0.2 0.4

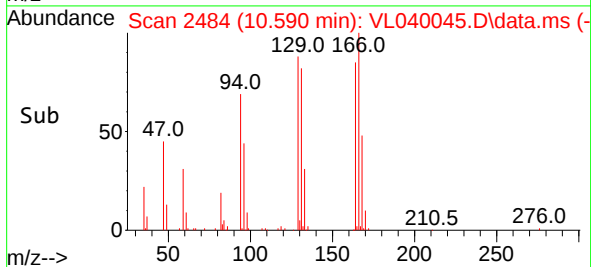
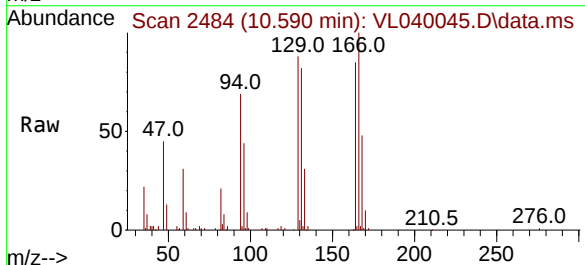
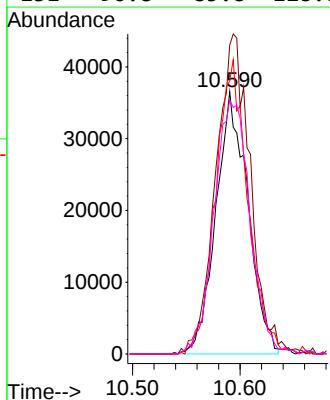
Manual Integrations
APPROVED

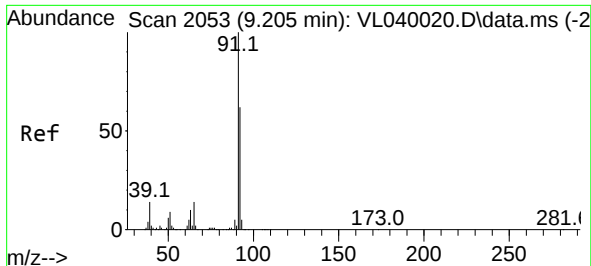
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#52
Tetrachloroethene
Concen: 0.899 ppbv
RT: 10.590 min Scan# 2484
Delta R.T. -0.013 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

Tgt Ion:164 Resp: 75437
Ion Ratio Lower Upper
164 100
166 117.8 97.4 146.0
129 104.1 84.3 126.5
131 96.8 85.8 128.8





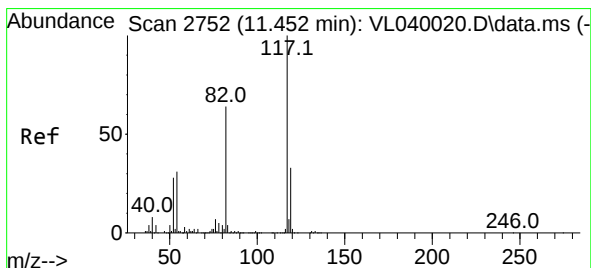
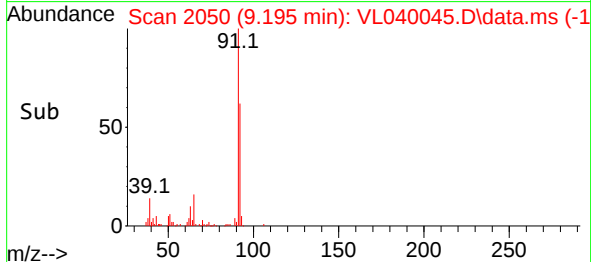
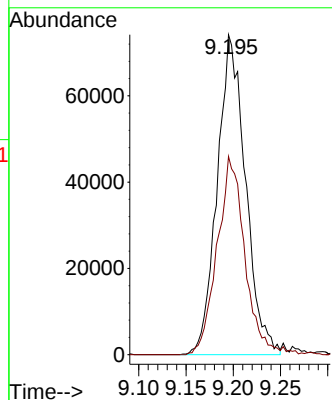
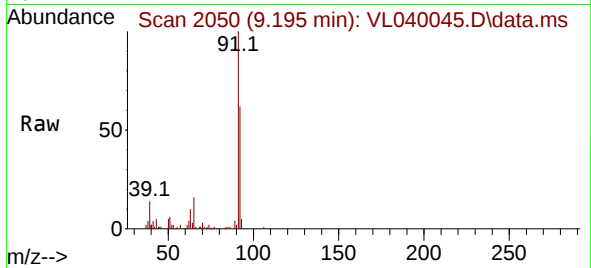
#53
Toluene
Concen: 0.564 ppbv
RT: 9.195 min Scan# 2053
Delta R.T. -0.010 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 15416
Ion Ratio Lower Upper
91 100
92 61.0 48.7 73.1

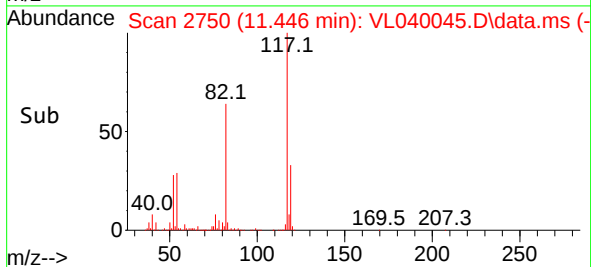
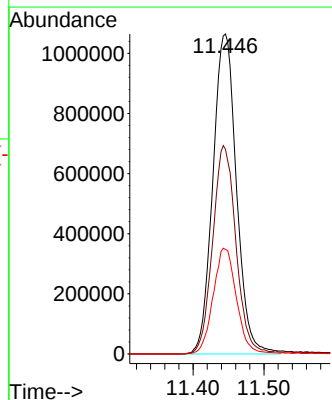
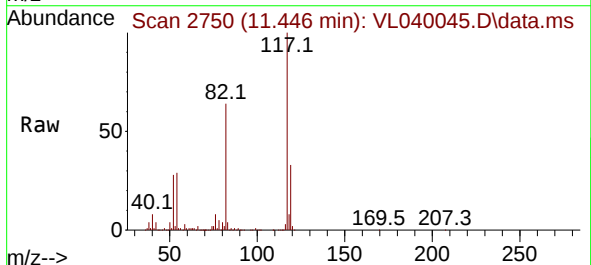
Manual Integrations
APPROVED

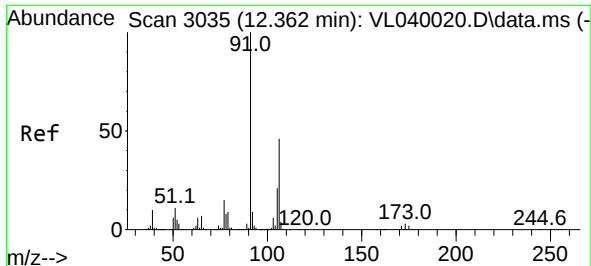
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 2750
Delta R.T. -0.006 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

Tgt Ion:117 Resp: 2463926
Ion Ratio Lower Upper
117 100
82 65.0 51.2 76.8
119 32.7 23.2 34.8





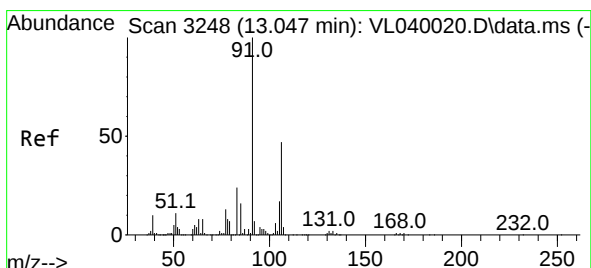
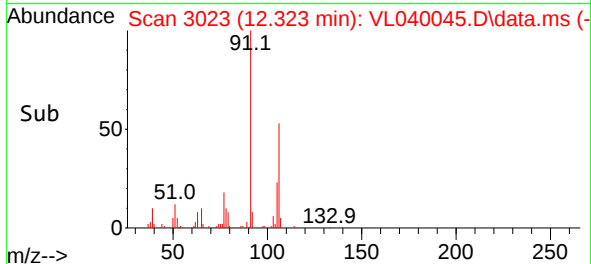
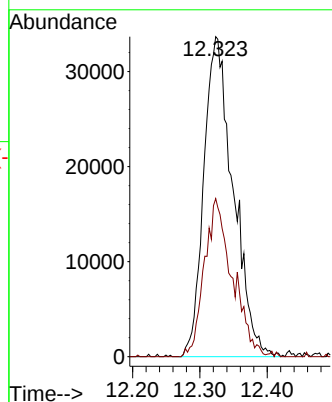
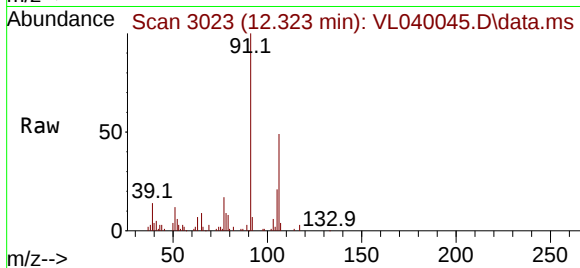
#59
m/p-Xylene
Concen: 0.334 ppbv m
RT: 12.323 min Scan# 3035
Delta R.T. -0.039 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 10181
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3

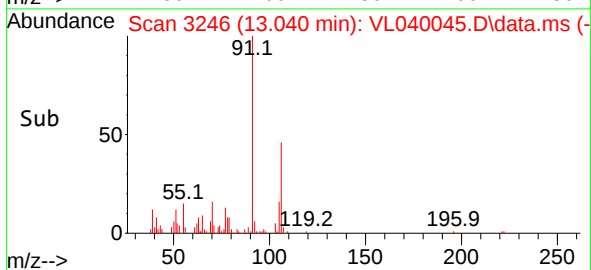
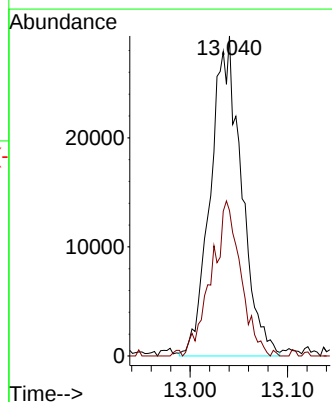
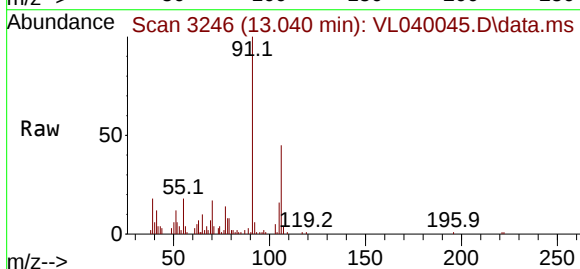
Manual Integrations
APPROVED

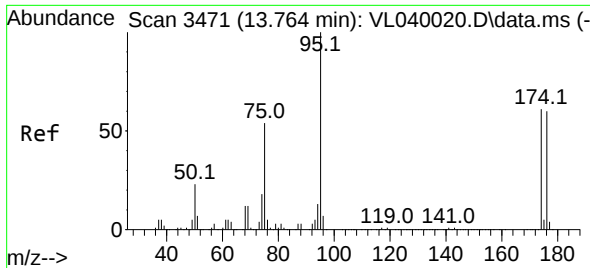
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#60
o-Xylene
Concen: 0.221 ppbv m
RT: 13.040 min Scan# 3246
Delta R.T. -0.006 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

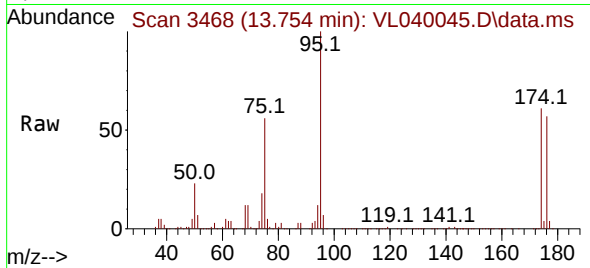
Tgt Ion: 91 Resp: 64622
Ion Ratio Lower Upper
91 100
106 46.4 22.4 67.0





#68
1-Bromo-4-Fluorobenzene
Concen: 10.126 ppbv
RT: 13.754 min Scan# 3471
Delta R.T. -0.010 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02

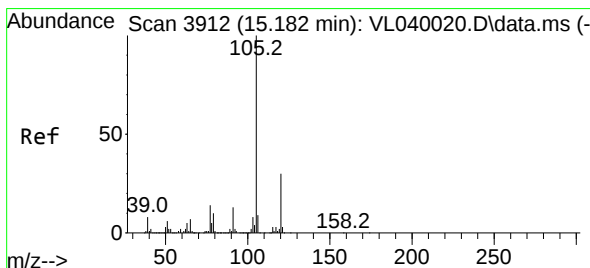
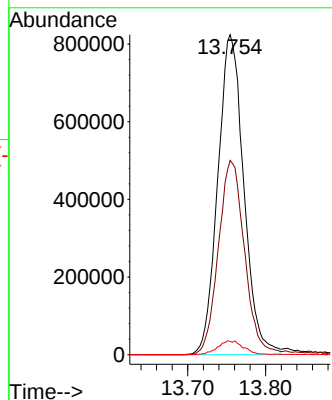
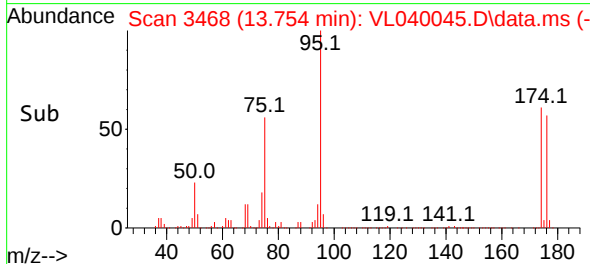
Instrument :
MSVOA_L
ClientSampleId :
SV2



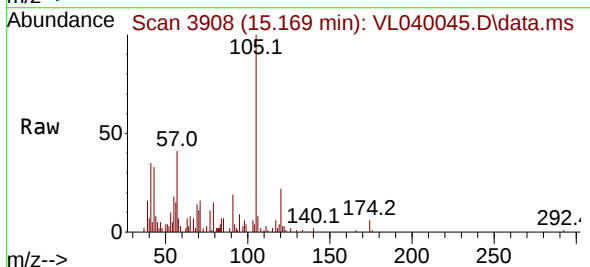
Tgt Ion: 95 Resp: 1905910
Ion Ratio Lower Upper
95 100
174 62.4 48.6 73.0
175 4.4 3.4 5.2

Manual Integrations
APPROVED

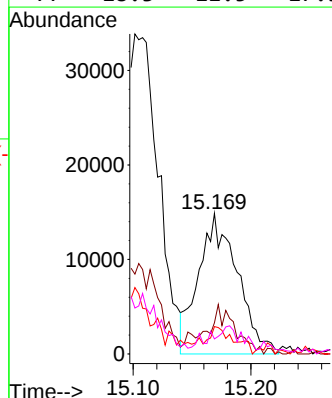
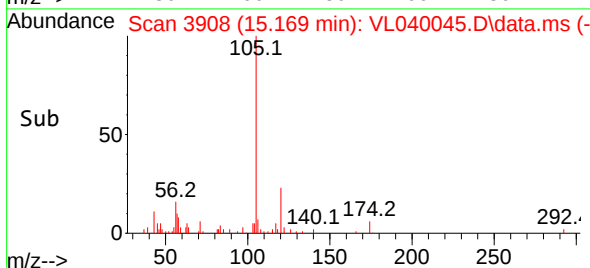
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022

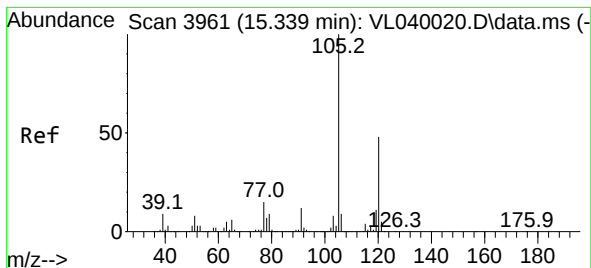


#72
4-Ethyltoluene
Concen: 0.105 ppbv m
RT: 15.169 min Scan# 3908
Delta R.T. -0.013 min
Lab File: VL040045.D
Acq: 20 Dec 2022 2:02



Tgt Ion:105 Resp: 34049
Ion Ratio Lower Upper
105 100
120 23.4 23.5 35.3#
91 0.0 10.5 15.7#
77 18.3 11.5 17.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.149 ppbv m

RT: 15.333 min Scan# 3961

Delta R.T. -0.006 min

Lab File: VL040045.D

Acq: 20 Dec 2022 2:02

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:105 Resp: 43504

Ion Ratio Lower Upper

105 100

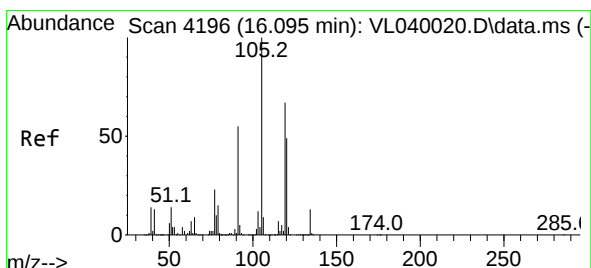
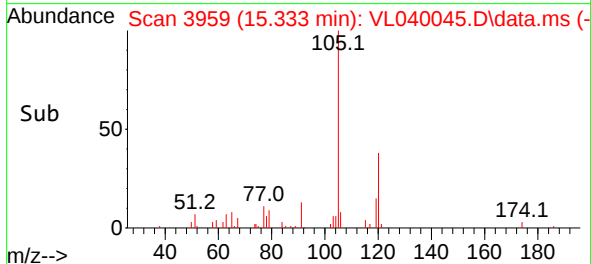
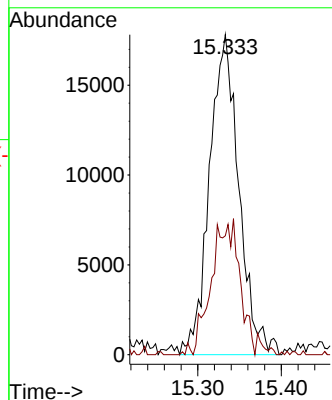
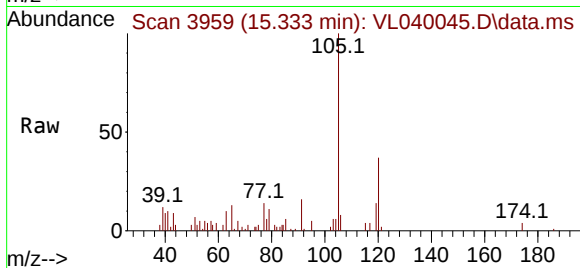
120 37.2 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2022

Supervised By :Mahesh Dadoda 12/20/2022



#74

1,2,4-Trimethylbenzene

Concen: 0.549 ppbv

RT: 16.089 min Scan# 4194

Delta R.T. -0.006 min

Lab File: VL040045.D

Acq: 20 Dec 2022 2:02

Tgt Ion:105 Resp: 177047

Ion Ratio Lower Upper

105 100

120 38.3 39.3 58.9#

91 10.6 44.2 66.4#

77 13.7 18.8 28.2#

