

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071023\
 Data File : VL040518.D
 Acq On : 10 Jul 2023 22:36
 Operator : SY/MD
 Sample : 03535-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/11/2023
 Supervised By :Mahesh Dadoda 07/11/2023

Quant Time: Jul 11 02:11:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 11 2023
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	956797	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2412590	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2009192	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1549011	9.741	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.739	85	85418	0.446	ppbv	90
3) Chlorodifluoromethane	2.687	51	50003	0.330	ppbv	96
4) Chloromethane	2.822	50	24438	0.407	ppbv	89
9) Propene	2.713	41	35797	0.689	ppbv #	78
11) Trichlorofluoromethane	3.568	101	38703	0.251	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.073	101	8000	0.074	ppbv	96
13) Ethanol	3.256	45	35001m	3.098	ppbv	
15) Acetone	3.481	43	258245	2.345	ppbv	99
19) Isopropyl Alcohol	3.594	45	206331	3.263	ppbv #	93
20) Methylene Chloride	3.941	84	49204	1.050	ppbv #	87
26) Hexane	5.214	57	32042m	0.329	ppbv	
34) 2-Butanone	4.809	43	27707m	0.232	ppbv	
35) Carbon Tetrachloride	6.491	117	11484m	0.079	ppbv	
36) Benzene	6.375	78	25599	0.132	ppbv	95
44) 2,2,4-Trimethylpentane	7.330	57	30750	0.098	ppbv #	71
53) Toluene	9.224	91	80795	0.383	ppbv	99

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

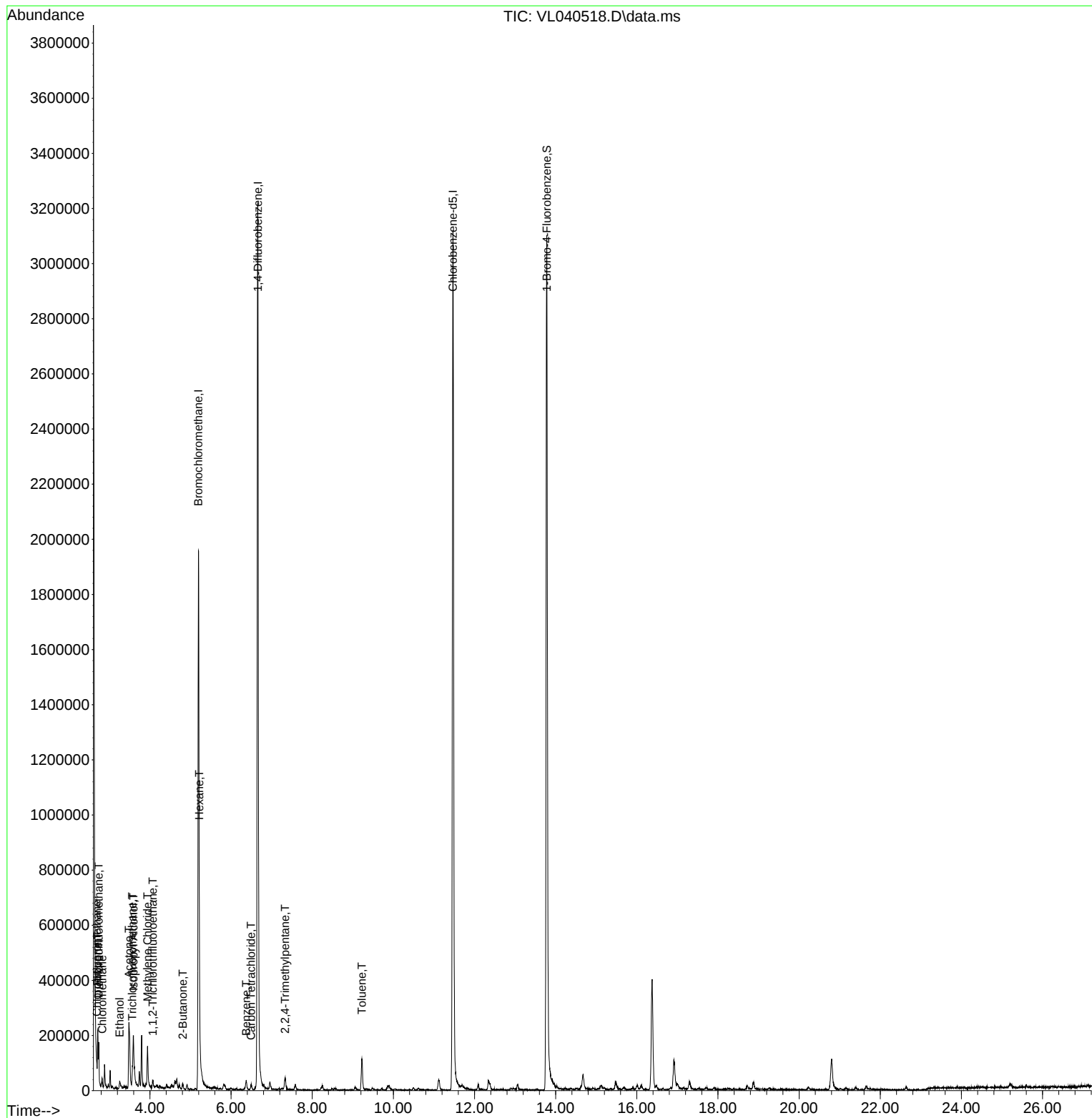
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071023\
Data File : VL040518.D
Acq On : 10 Jul 2023 22:36
Operator : SY/MD
Sample : 03535-04
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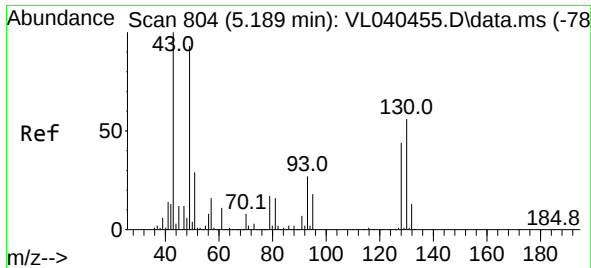
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Jul 11 02:11:11 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Jul 10 16:32:00 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

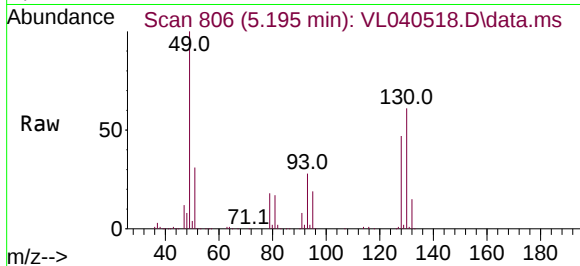
Reviewed By : Semsettin Yesilyurt 07/11/2023
Supervised By : Mahesh Dadoda 07/11/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 804
Delta R.T. -0.007 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

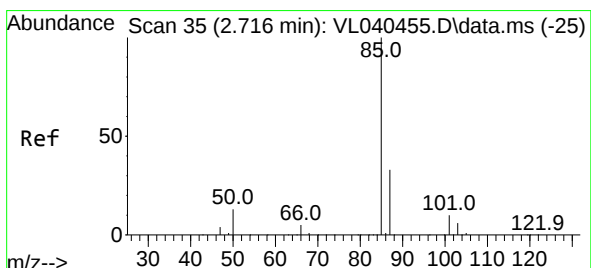
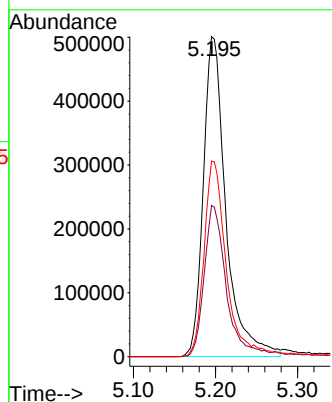
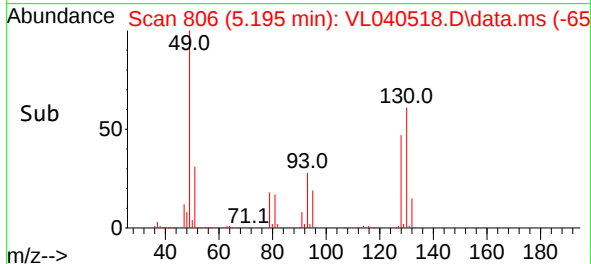
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 49 Resp: 95679
Ion Ratio Lower Upper
49 100
128 48.1 25.1 75.4
130 61.8 31.6 94.7

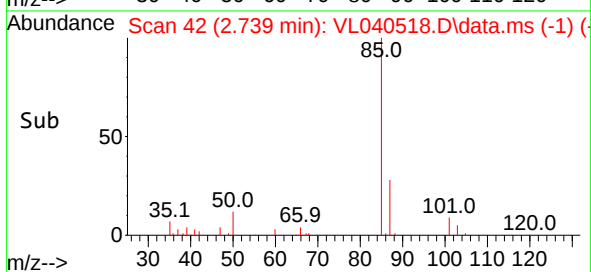
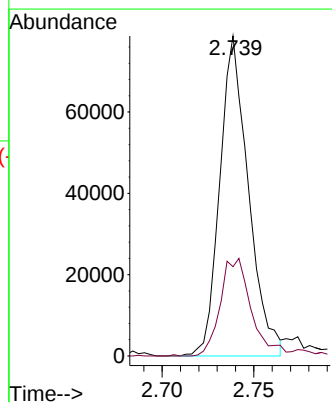
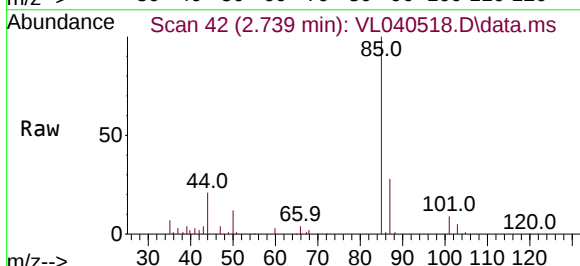
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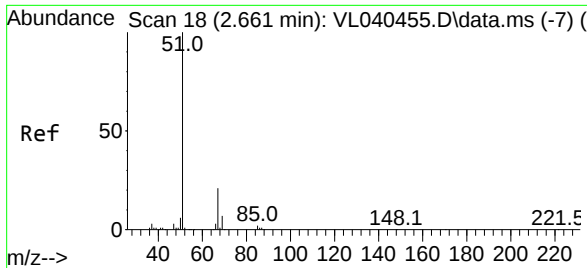
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#2
Dichlorodifluoromethane
Concen: 0.446 ppbv
RT: 2.739 min Scan# 42
Delta R.T. 0.000 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Tgt Ion: 85 Resp: 85418
Ion Ratio Lower Upper
85 100
87 27.9 26.8 40.2





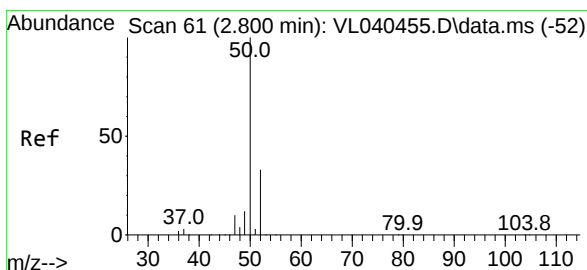
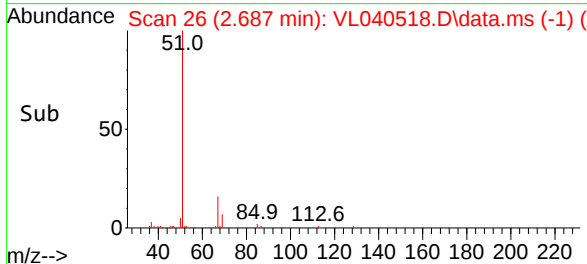
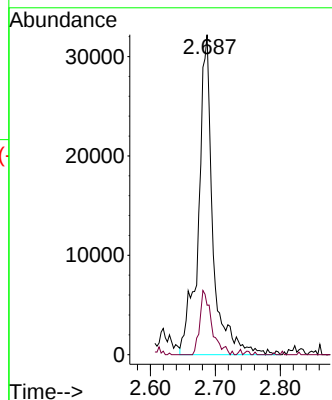
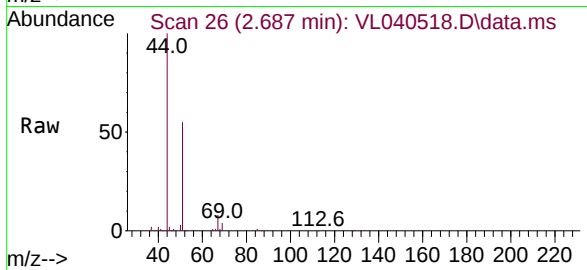
#3
Chlorodifluoromethane
Concen: 0.330 ppbv
RT: 2.687 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 51 Resp: 5000
Ion Ratio Lower Upper
51 100
67 16.6 14.6 21.8

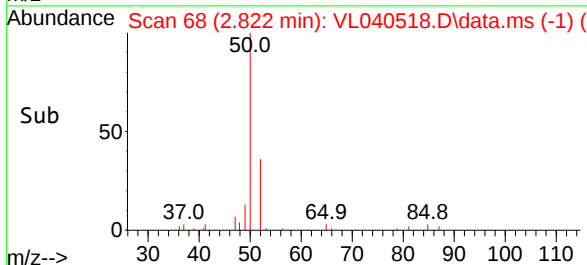
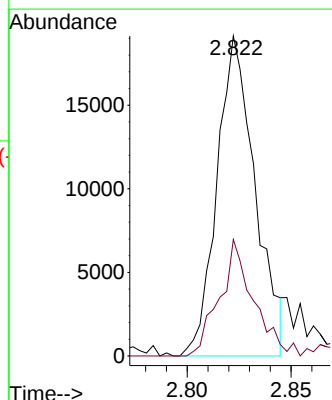
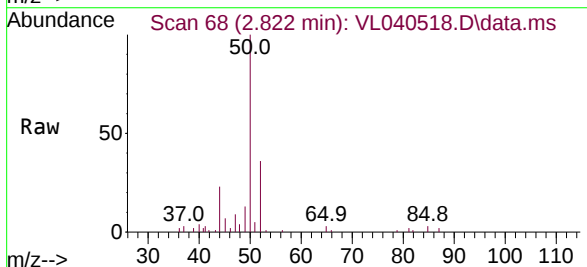
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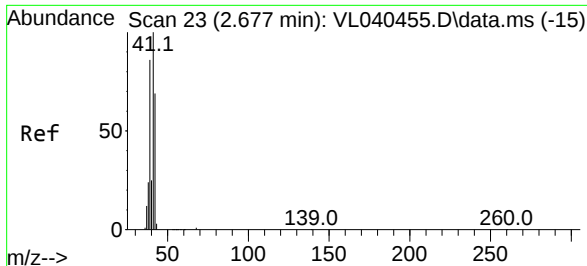
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#4
Chloromethane
Concen: 0.407 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.000 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Tgt Ion: 50 Resp: 24438
Ion Ratio Lower Upper
50 100
52 36.4 24.4 36.6





#9

Propene

Concen: 0.689 ppbv

RT: 2.713 min Scan# 34

Delta R.T. 0.010 min

Lab File: VL040518.D

Acq: 10 Jul 2023 22:36

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 41 Resp: 3579

Ion Ratio Lower Upper

41 100

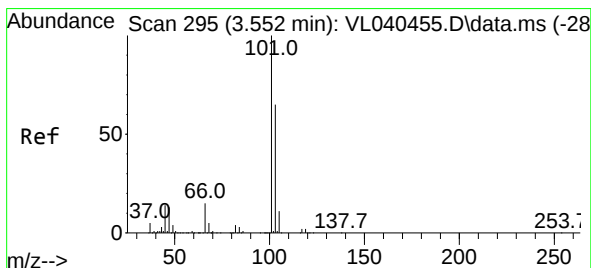
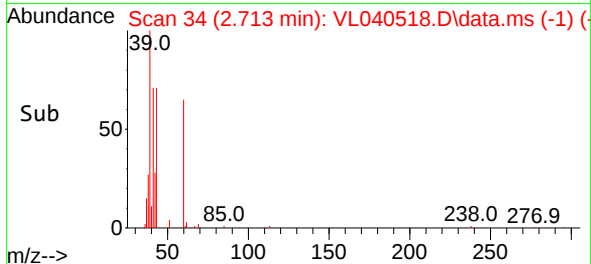
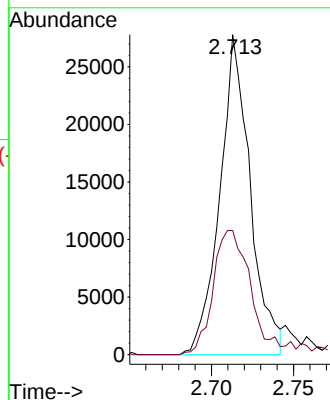
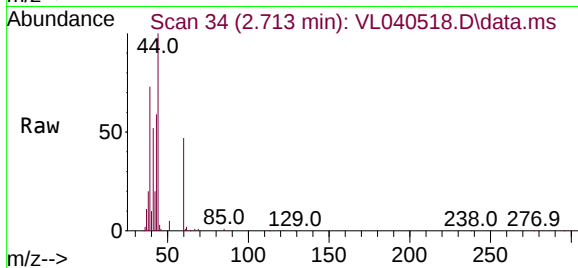
42 51.1 55.0 82.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/11/2023

Supervised By :Mahesh Dadoda 07/11/2023



#11

Trichlorofluoromethane

Concen: 0.251 ppbv

RT: 3.568 min Scan# 300

Delta R.T. -0.003 min

Lab File: VL040518.D

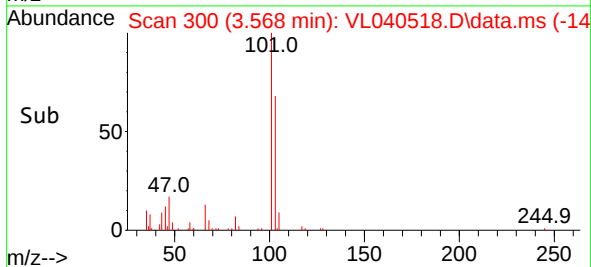
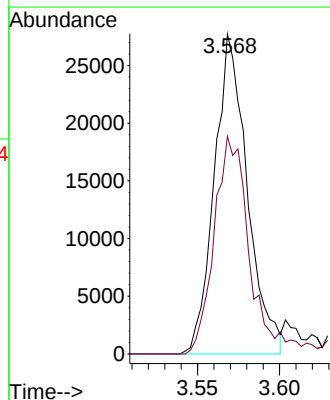
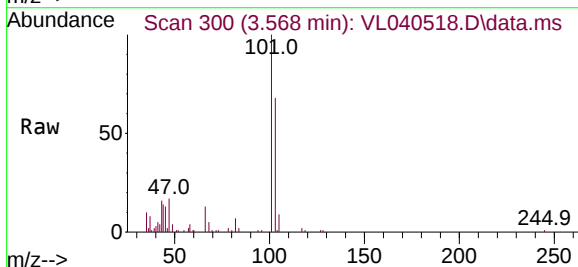
Acq: 10 Jul 2023 22:36

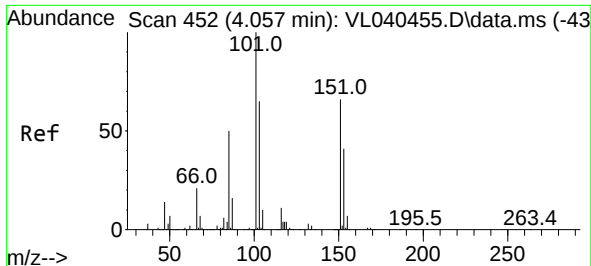
Tgt Ion:101 Resp: 38703

Ion Ratio Lower Upper

101 100

103 68.0 53.4 80.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.074 ppbv

RT: 4.073 min Scan# 4

Delta R.T. 0.000 min

Lab File: VL040518.D

Acq: 10 Jul 2023 22:36

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion:101 Resp: 8000

Ion Ratio Lower Upper

101 100

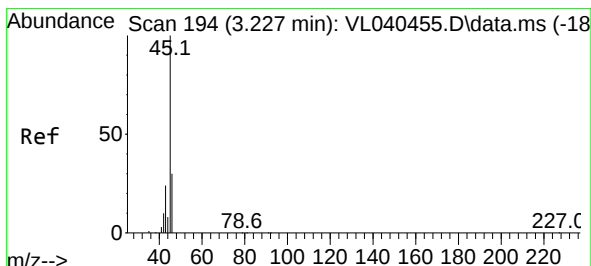
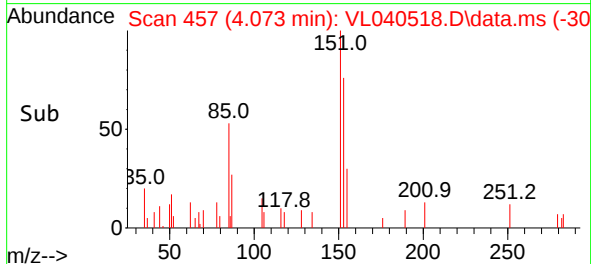
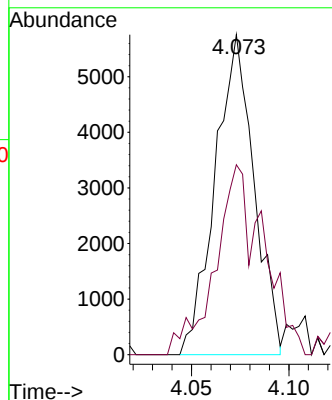
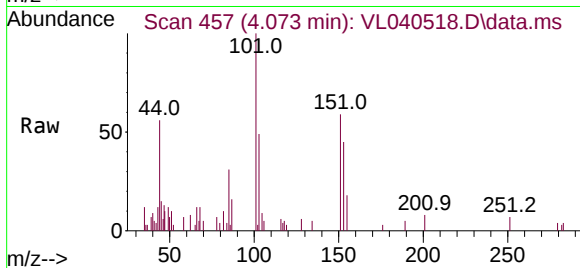
151 76.0 58.2 87.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/11/2023

Supervised By :Mahesh Dadoda 07/11/2023



#13

Ethanol

Concen: 3.098 ppbv m

RT: 3.256 min Scan# 203

Delta R.T. 0.010 min

Lab File: VL040518.D

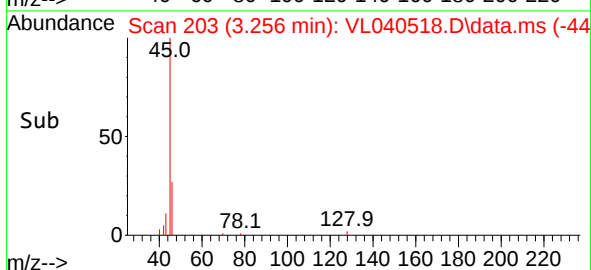
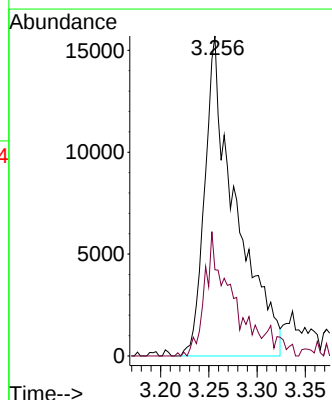
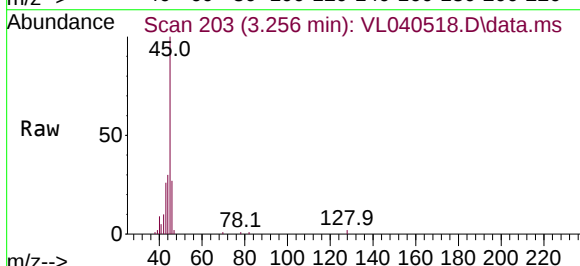
Acq: 10 Jul 2023 22:36

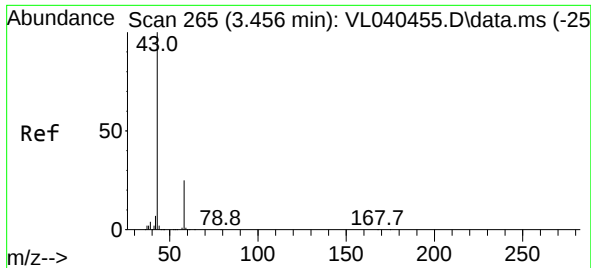
Tgt Ion: 45 Resp: 35001

Ion Ratio Lower Upper

45 100

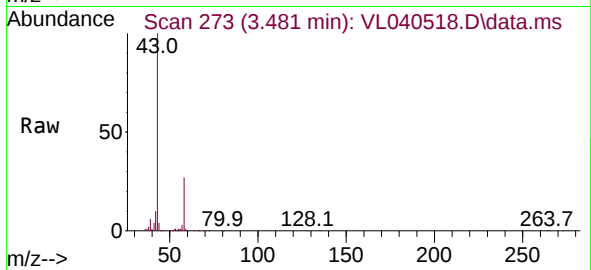
46 37.2 15.3 61.1





#15
Acetone
Concen: 2.345 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

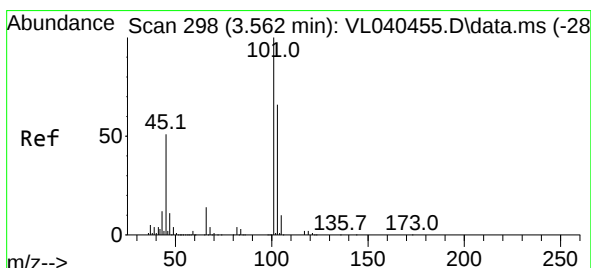
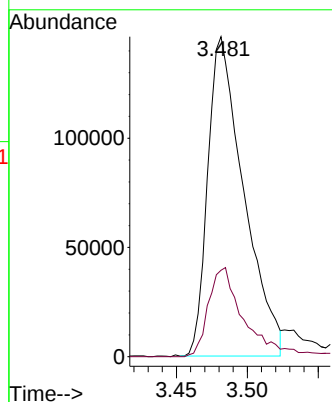
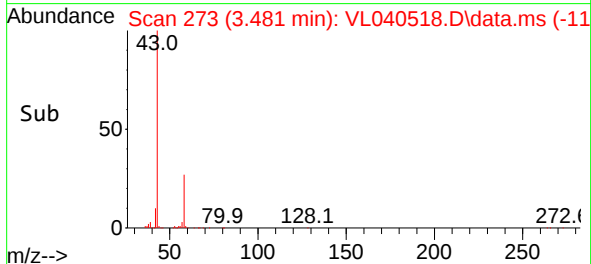
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 43 Resp: 258249
Ion Ratio Lower Upper
43 100
58 28.3 22.9 34.3

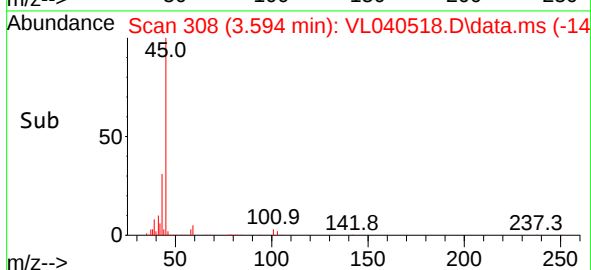
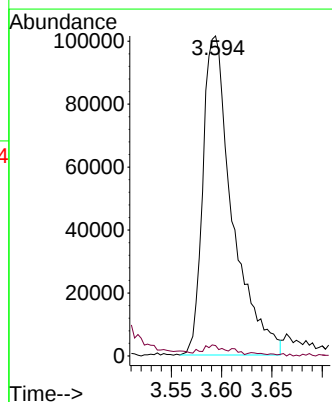
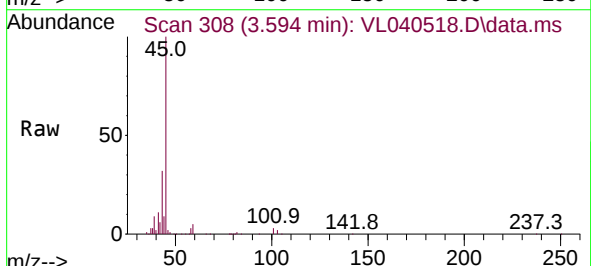
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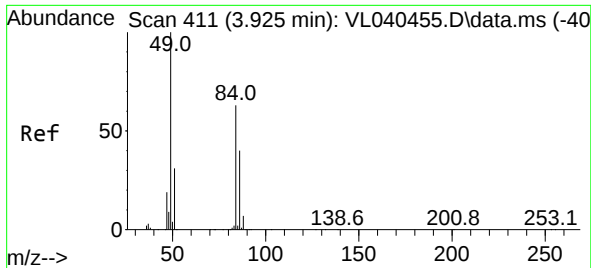
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#19
Isopropyl Alcohol
Concen: 3.263 ppbv
RT: 3.594 min Scan# 308
Delta R.T. 0.013 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

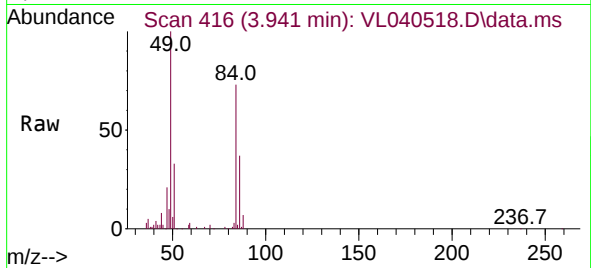
Tgt Ion: 45 Resp: 206331
Ion Ratio Lower Upper
45 100
58 4.0 1.1 1.7#





#20
Methylene Chloride
Concen: 1.050 ppbv
RT: 3.941 min Scan# 411
Delta R.T. 0.000 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

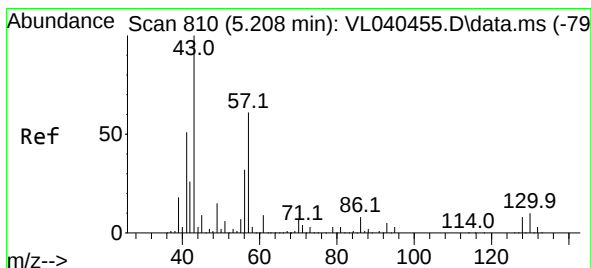
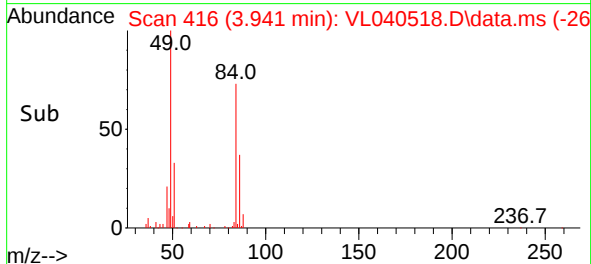
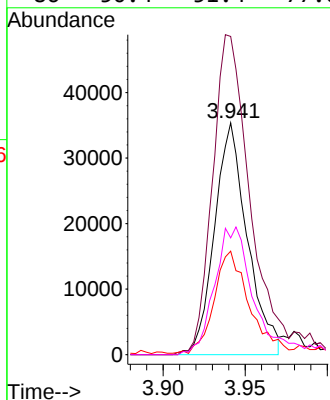
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 84	Resp: 49204
Ion Ratio	Lower Upper
84 100	
49 136.3	123.4 185.2
51 43.7	38.3 57.5
86 50.4	51.4 77.0#

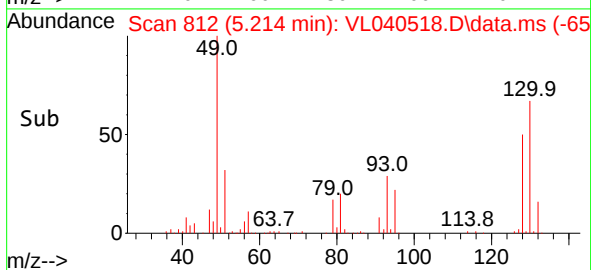
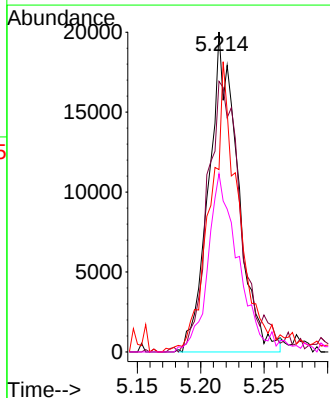
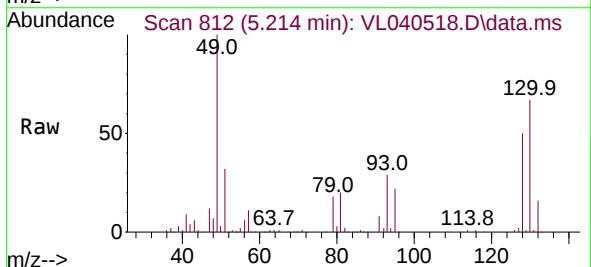
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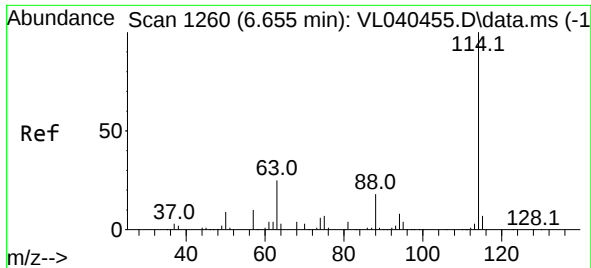
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#26
Hexane
Concen: 0.329 ppbv m
RT: 5.214 min Scan# 812
Delta R.T. -0.006 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Tgt Ion: 57	Resp: 32042
Ion Ratio	Lower Upper
57 100	
41 99.4	69.5 104.3
43 93.5	177.1 265.7#
56 61.0	42.3 63.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1

Delta R.T. -0.006 min

Lab File: VL040518.D

Acq: 10 Jul 2023 22:36

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion:114 Resp: 2412590

Ion Ratio Lower Upper

114 100

63 25.4 19.6 29.4

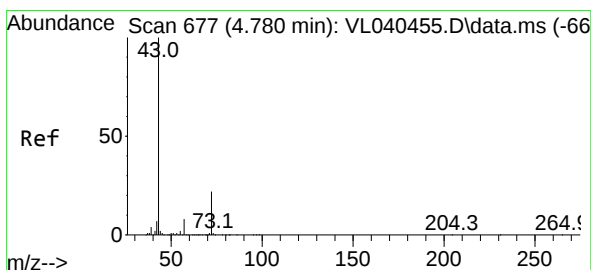
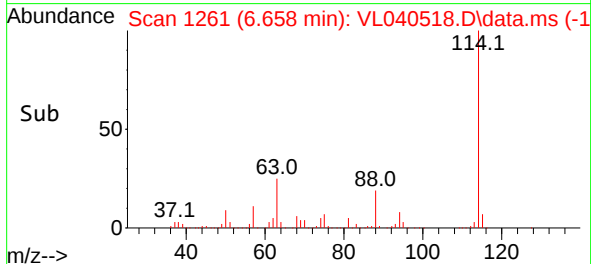
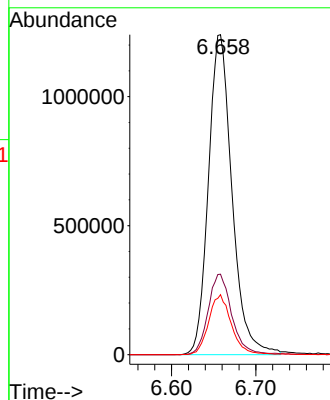
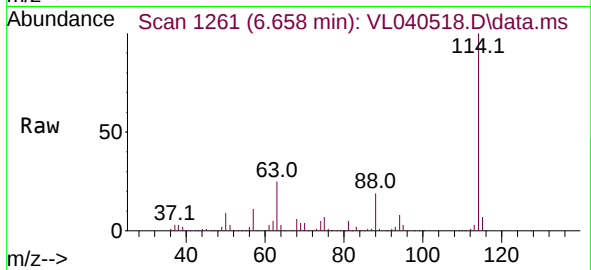
88 18.2 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/11/2023

Supervised By :Mahesh Dadoda 07/11/2023



#34

2-Butanone

Concen: 0.232 ppbv m

RT: 4.809 min Scan# 686

Delta R.T. 0.016 min

Lab File: VL040518.D

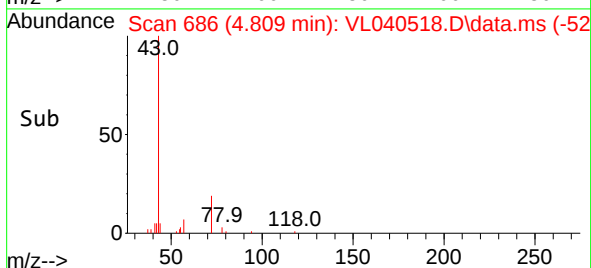
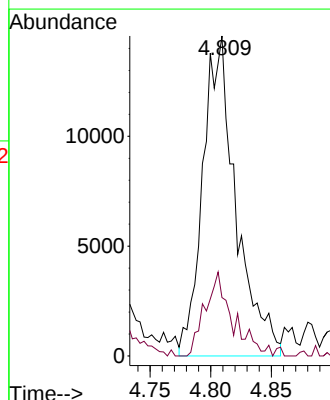
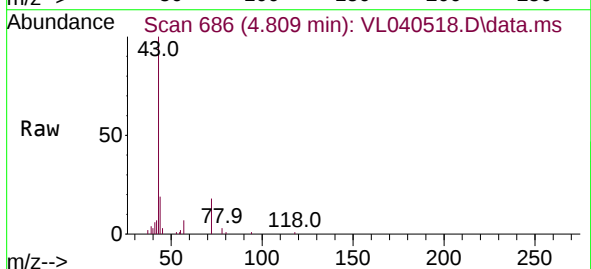
Acq: 10 Jul 2023 22:36

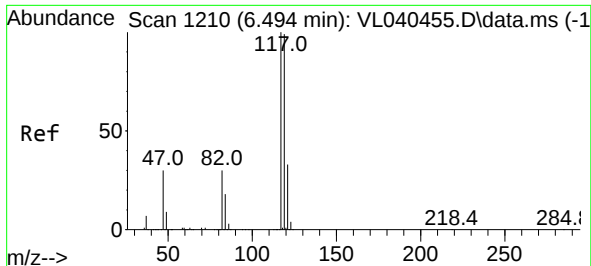
Tgt Ion: 43 Resp: 27707

Ion Ratio Lower Upper

43 100

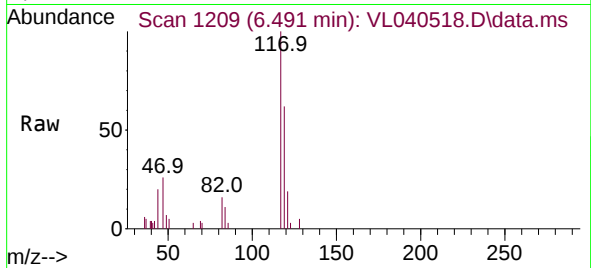
72 0.0 19.1 28.7#





#35
Carbon Tetrachloride
Concen: 0.079 ppbv m
RT: 6.491 min Scan# 117
Delta R.T. -0.013 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

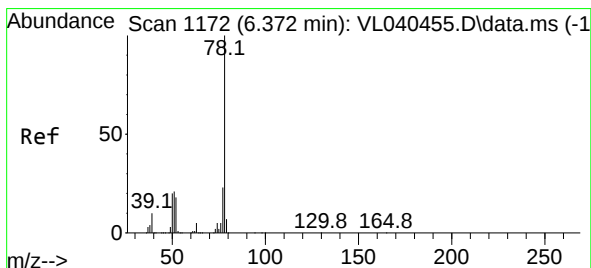
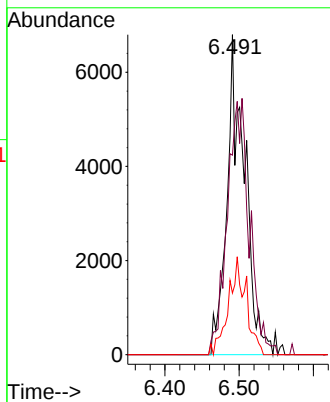
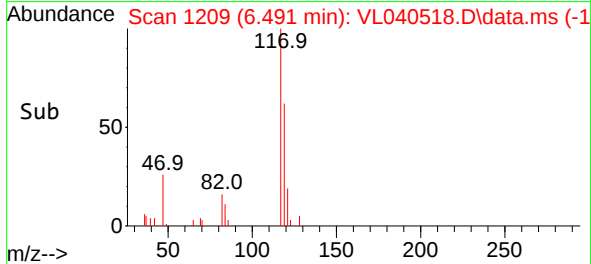
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 117 Resp: 11484
Ion Ratio Lower Upper
117 100
119 62.4 77.8 116.6
121 19.3 24.8 37.2

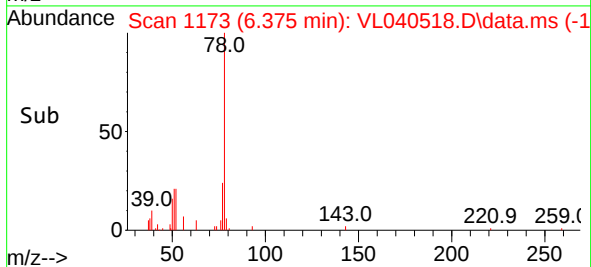
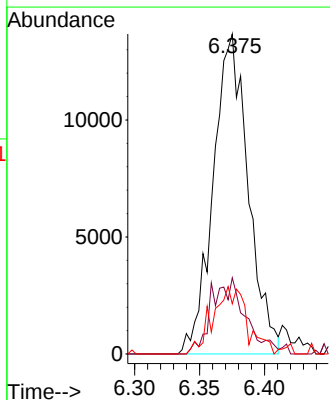
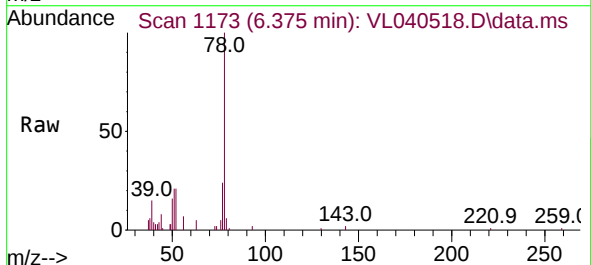
Manual Integrations
APPROVED

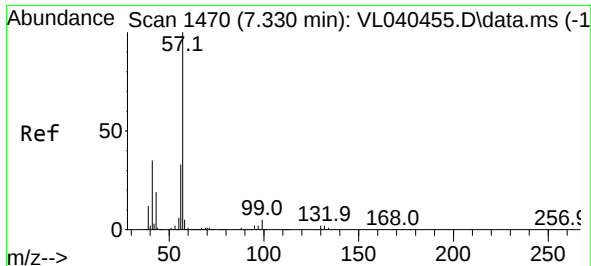
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#36
Benzene
Concen: 0.132 ppbv
RT: 6.375 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Tgt Ion: 78 Resp: 25599
Ion Ratio Lower Upper
78 100
77 23.8 17.4 26.0
50 15.7 14.4 21.6





#44

2,2,4-Trimethylpentane

Concen: 0.098 ppbv

RT: 7.330 min Scan# 1470

Delta R.T. -0.006 min

Lab File: VL040518.D

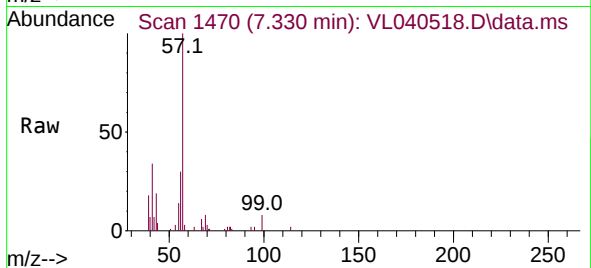
Acq: 10 Jul 2023 22:36

Instrument :

MSVOA_L

ClientSampleId :

IA2



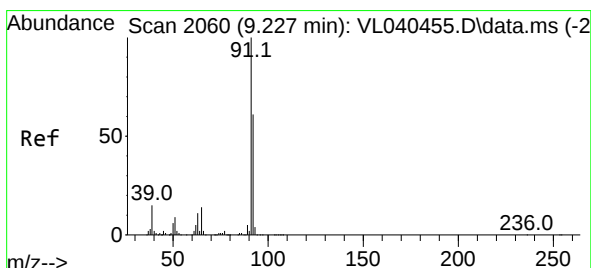
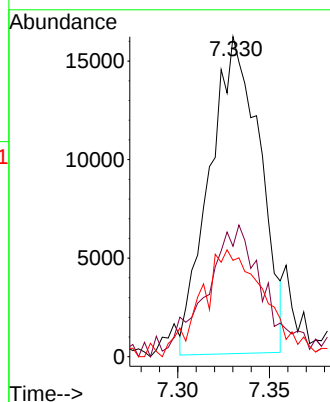
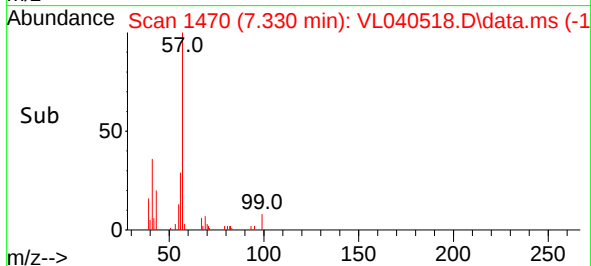
Tgt Ion:	57	Resp:	30750
Ion	Ratio	Lower	Upper
57	100		
41	52.1	25.5	38.3
56	43.6	25.1	37.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/11/2023

Supervised By :Mahesh Dadoda 07/11/2023



#53

Toluene

Concen: 0.383 ppbv

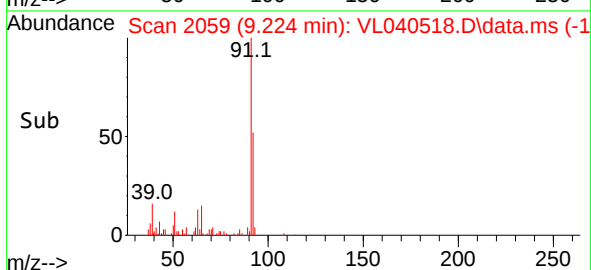
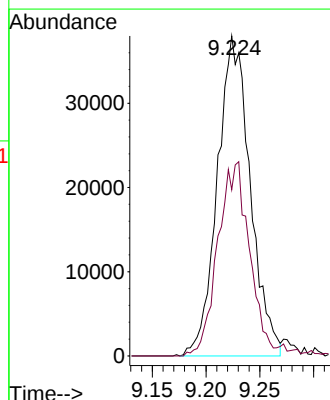
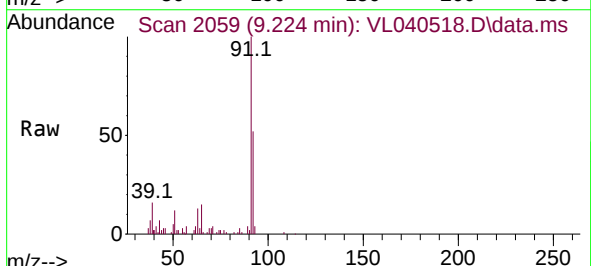
RT: 9.224 min Scan# 2059

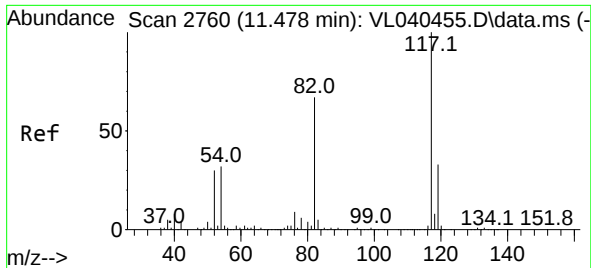
Delta R.T. -0.006 min

Lab File: VL040518.D

Acq: 10 Jul 2023 22:36

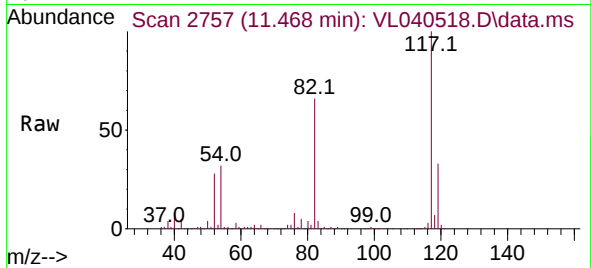
Tgt Ion:	91	Resp:	80795
Ion	Ratio	Lower	Upper
91	100		
92	60.4	49.1	73.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

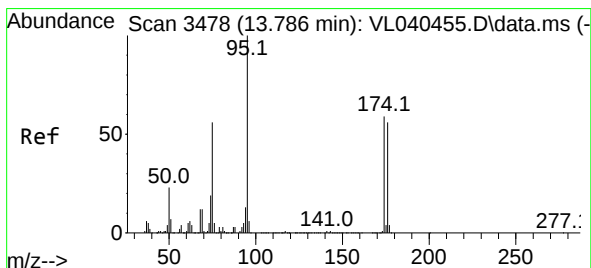
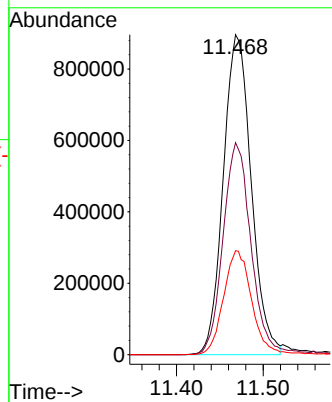
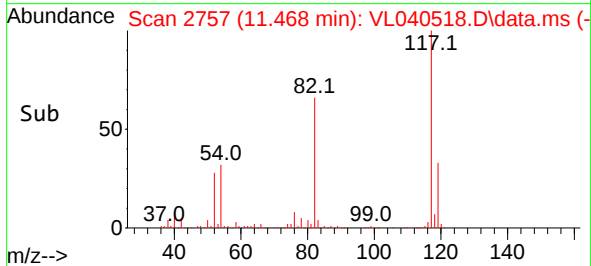
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:117 Resp: 2009192
Ion Ratio Lower Upper
117 100
82 67.6 50.2 75.4
119 33.1 26.9 40.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.741 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. -0.003 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Tgt Ion: 95 Resp: 1549011
Ion Ratio Lower Upper
95 100
174 61.1 50.6 75.8
175 4.2 3.7 5.5

