

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062223\
 Data File : VL040498.D
 Acq On : 23 Jun 2023 8:15
 Operator : SY/MD
 Sample : 03397-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/26/2023
 Supervised By :Mahesh Dadoda 06/27/2023

Quant Time: Jun 26 02:13:45 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M

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

QLast Update : Tue Jun 06 06:22:12 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	1007213	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2569517	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2352749	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	2035903	10.485	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	29502	0.135	ppbv	96
9) Propene	2.700	41	190120	3.737	ppbv	84
10) Heptane	7.574	43	201878	1.753	ppbv	95
11) Trichlorofluoromethane	3.562	101	54664	0.306	ppbv	96
13) Ethanol	3.240	45	118475	11.246	ppbv	94
15) Acetone	3.465	43	468899	3.860	ppbv #	81
17) tert-Butyl alcohol	3.893	59	16648m	0.167	ppbv	
19) Isopropyl Alcohol	3.581	45	14717m	0.251	ppbv	
20) Methylene Chloride	3.931	84	168175	3.244	ppbv	99
26) Hexane	5.211	57	654106	6.275	ppbv #	41
27) Carbon Disulfide	4.121	76	815972	6.259	ppbv	98
29) Chloroform	5.269	83	32157	0.181	ppbv	95
30) Cyclohexane	6.600	84	17976m	0.214	ppbv	
32) 1,1,1-Trichloroethane	5.992	97	31144m	0.178	ppbv	
34) 2-Butanone	4.790	43	40751	0.329	ppbv #	89
36) Benzene	6.359	78	132857m	0.650	ppbv	
44) 2,2,4-Trimethylpentane	7.320	57	61103m	0.183	ppbv	
52) Tetrachloroethene	10.606	164	20314m	0.317	ppbv	
53) Toluene	9.214	91	464033	2.156	ppbv	98
58) Ethyl Benzene	12.085	91	133875	0.470	ppbv	91
59) m/p-Xylene	12.343	91	505362m	1.929	ppbv	
60) o-Xylene	13.053	91	192336m	0.774	ppbv	
69) p-Isopropyltoluene	16.995	119	1728500	4.707	ppbv	99
73) 1,3,5-Trimethylbenzene	15.359	105	43289	0.175	ppbv #	72
74) 1,2,4-Trimethylbenzene	16.108	105	199616	0.686	ppbv #	66

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

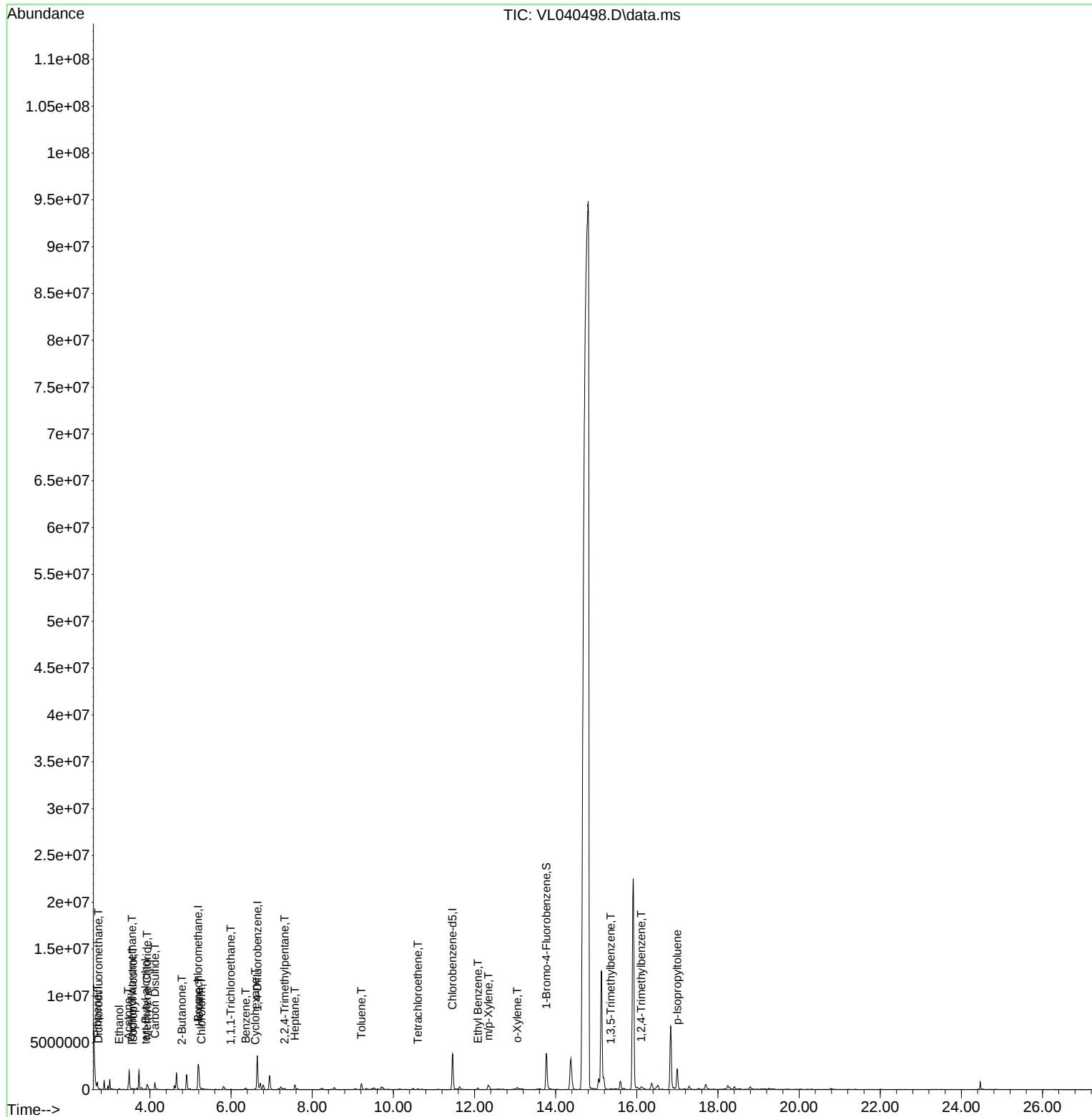
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062223\
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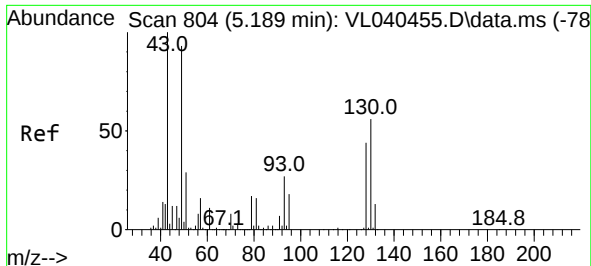
Instrument :
MSVOA_L
ClientSampleId :
SV-1

Quant Time: Jun 26 02:13:45 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
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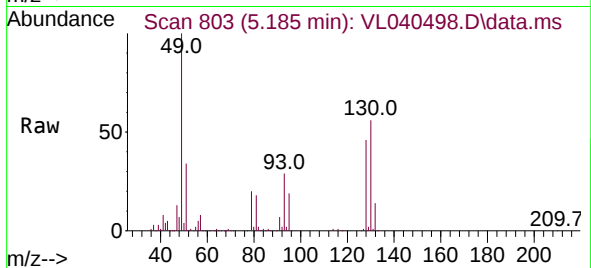
Reviewed By : Semsettin Yesilyurt 06/26/2023
Supervised By : Mahesh Dadoda 06/27/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.004 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

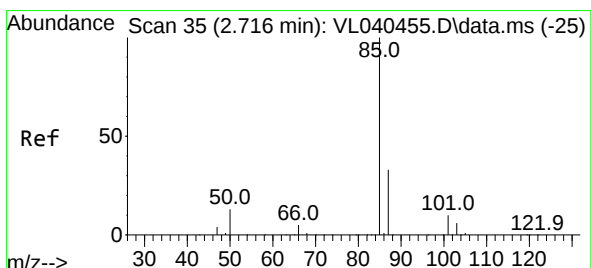
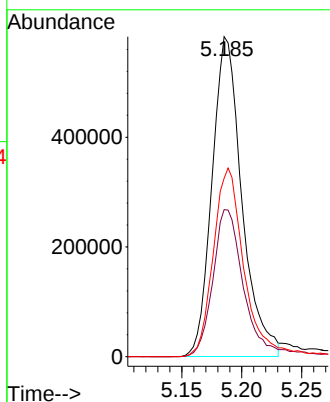
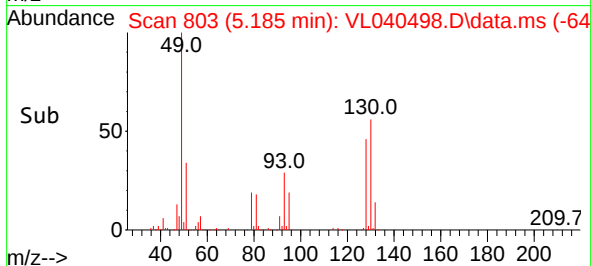
Instrument :
MSVOA_L
ClientSampleId :
SV-1



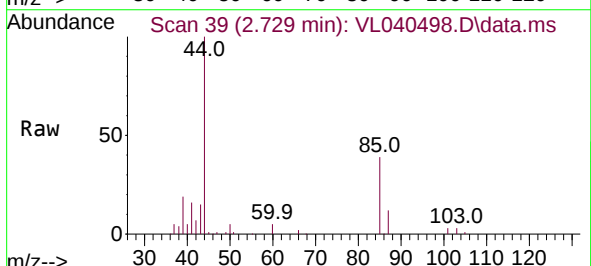
Tgt Ion: 49 Resp: 100721
Ion Ratio Lower Upper
49 100
128 49.2 24.7 74.1
130 62.7 31.4 94.2

Manual Integrations
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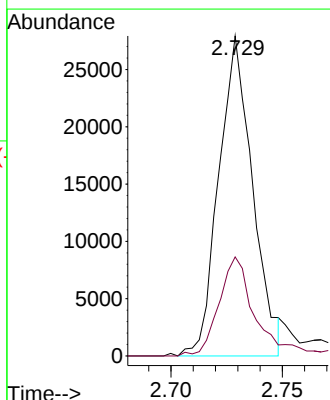
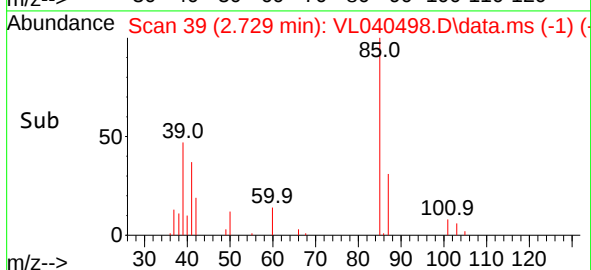
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023

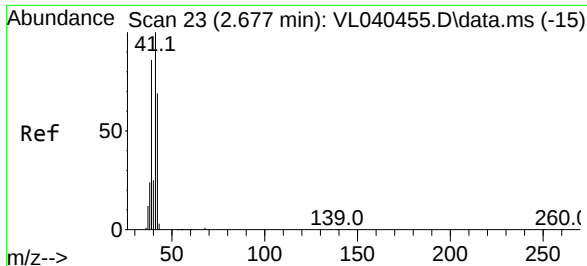


#2
Dichlorodifluoromethane
Concen: 0.135 ppbv
RT: 2.729 min Scan# 39
Delta R.T. 0.013 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15



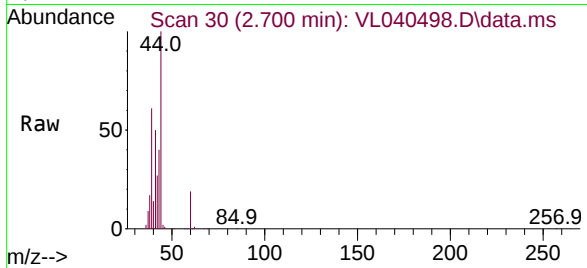
Tgt Ion: 85 Resp: 29502
Ion Ratio Lower Upper
85 100
87 31.0 26.6 39.8





#9
Propene
Concen: 3.737 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.022 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

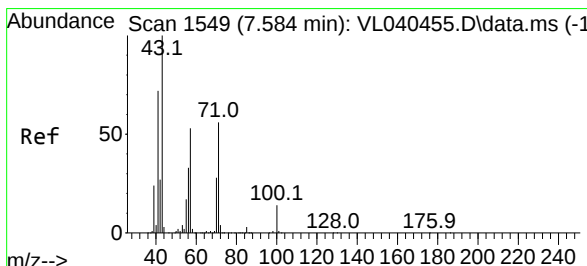
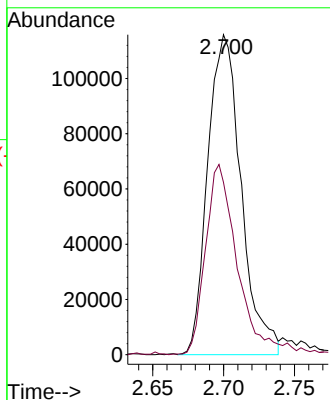
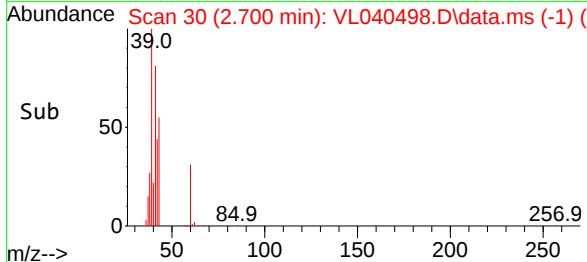
Instrument :
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ClientSampleId :
SV-1



Tgt Ion: 41 Resp: 190120
Ion Ratio Lower Upper
41 100
42 57.5 56.2 84.2

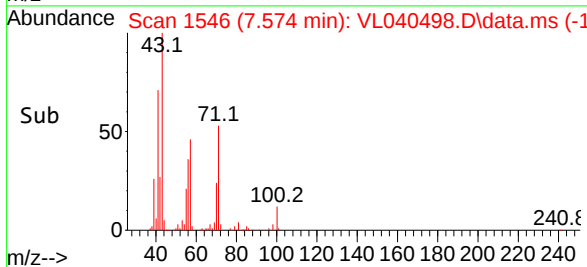
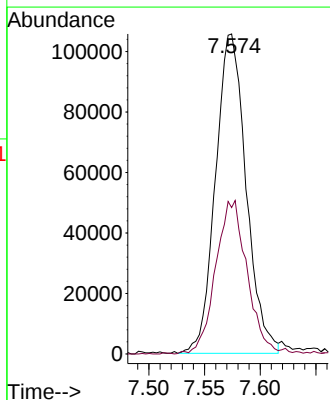
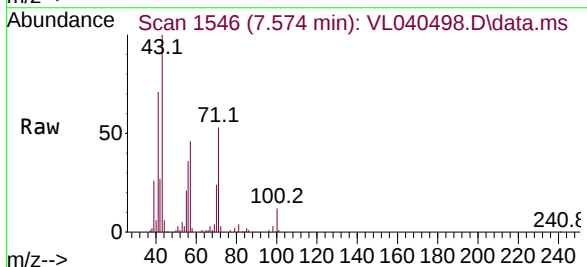
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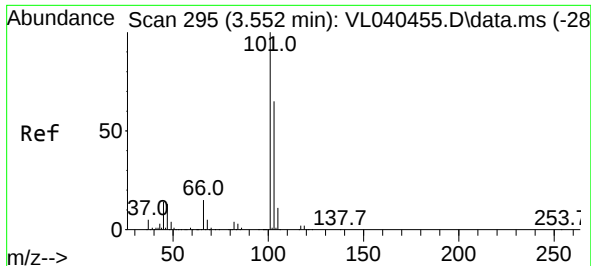
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#10
Heptane
Concen: 1.753 ppbv
RT: 7.574 min Scan# 1546
Delta R.T. -0.010 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

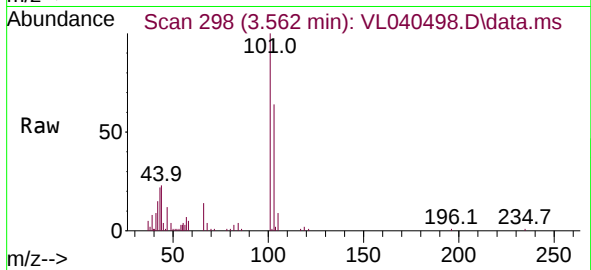
Tgt Ion: 43 Resp: 201878
Ion Ratio Lower Upper
43 100
57 49.9 42.5 63.7





#11
 Trichlorofluoromethane
 Concen: 0.306 ppbv
 RT: 3.562 min Scan# 295
 Delta R.T. 0.010 min
 Lab File: VL040498.D
 Acq: 23 Jun 2023 8:15

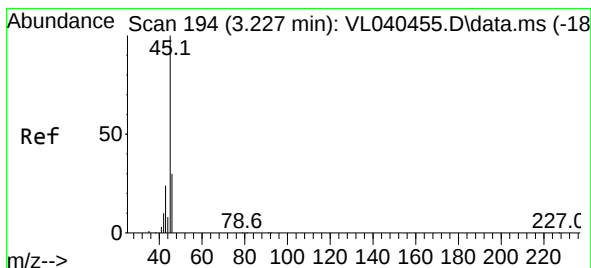
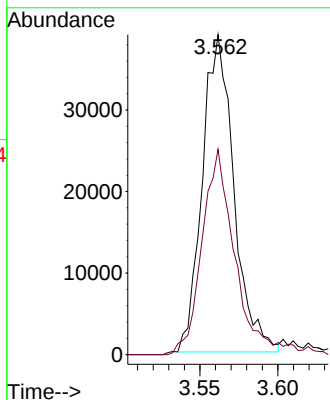
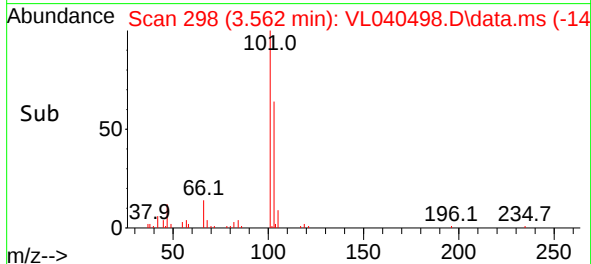
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1



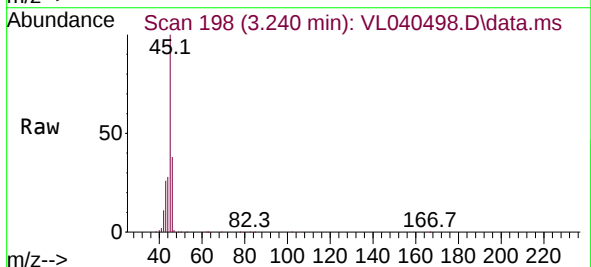
Tgt Ion: 101 Resp: 54664
 Ion Ratio Lower Upper
 101 100
 103 61.3 51.7 77.5

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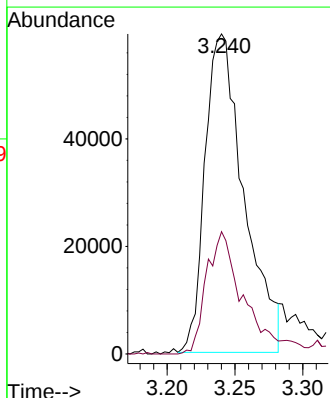
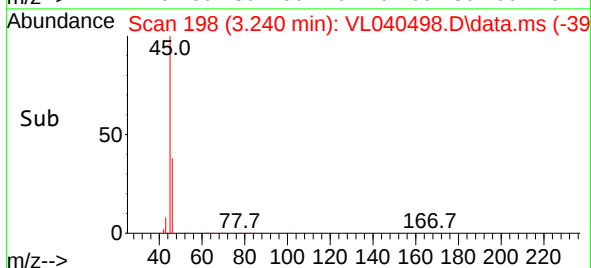
Reviewed By : Semsettin Yesilyurt 06/26/2023
 Supervised By : Mahesh Dadoda 06/27/2023

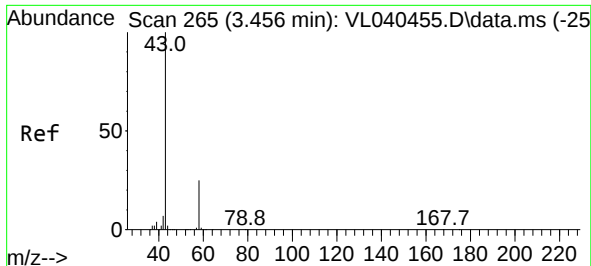


#13
 Ethanol
 Concen: 11.246 ppbv
 RT: 3.240 min Scan# 198
 Delta R.T. 0.013 min
 Lab File: VL040498.D
 Acq: 23 Jun 2023 8:15



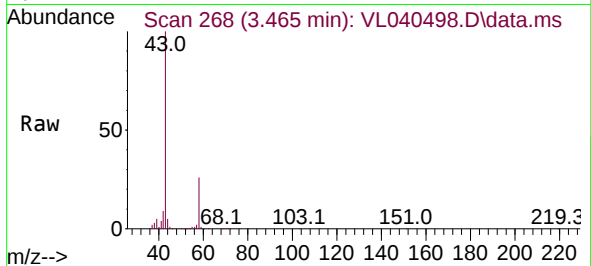
Tgt Ion: 45 Resp: 118475
 Ion Ratio Lower Upper
 45 100
 46 40.0 14.5 58.1





#15
Acetone
Concen: 3.860 ppbv
RT: 3.465 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

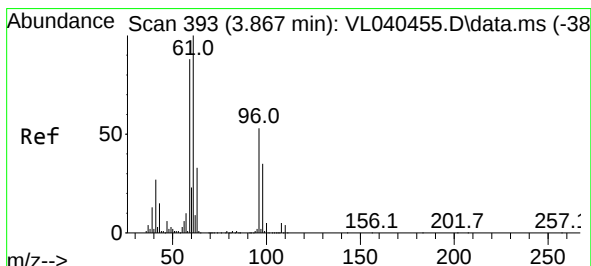
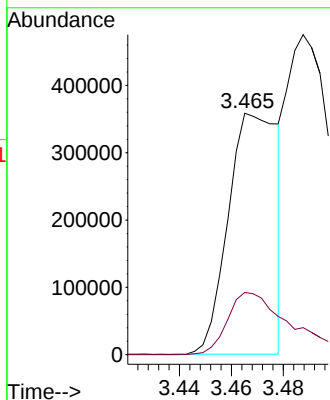
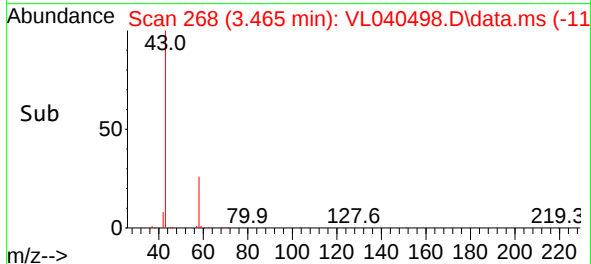
Instrument :
MSVOA_L
ClientSampleId :
SV-1



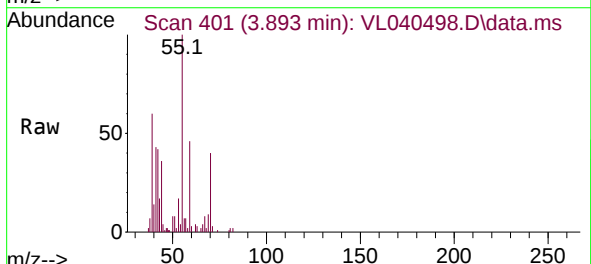
Tgt Ion: 43 Resp: 46889
Ion Ratio Lower Upper
43 100
58 36.9 21.6 32.4

Manual Integrations
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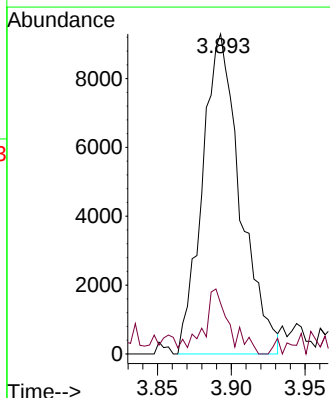
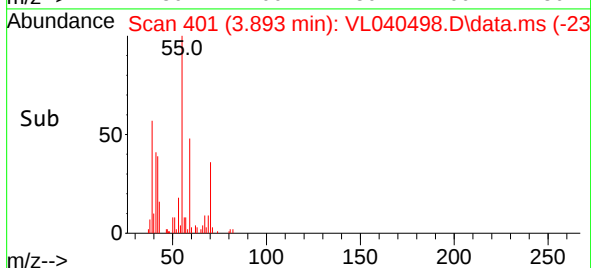
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023

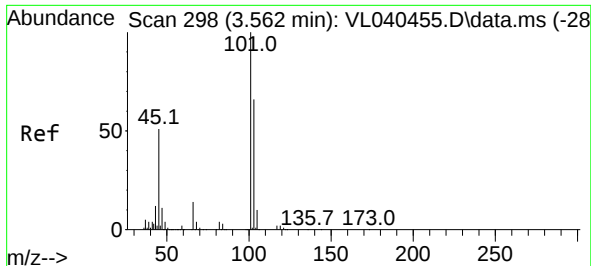


#17
tert-Butyl alcohol
Concen: 0.167 ppbv m
RT: 3.893 min Scan# 401
Delta R.T. 0.026 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15



Tgt Ion: 59 Resp: 16648
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2





#19

Isopropyl Alcohol

Concen: 0.251 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.019 min

Lab File: VL040498.D

Acq: 23 Jun 2023 8:15

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tgt Ion: 45 Resp: 1471

Ion Ratio Lower Upper

45 100

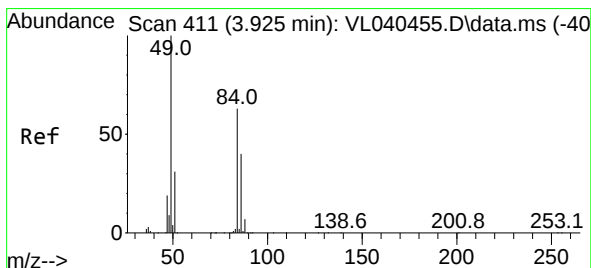
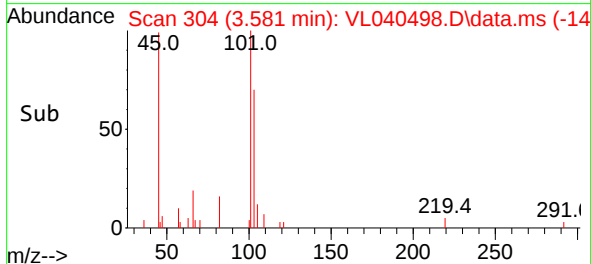
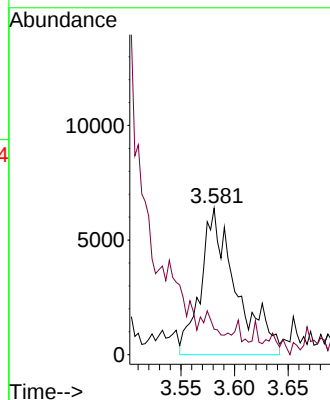
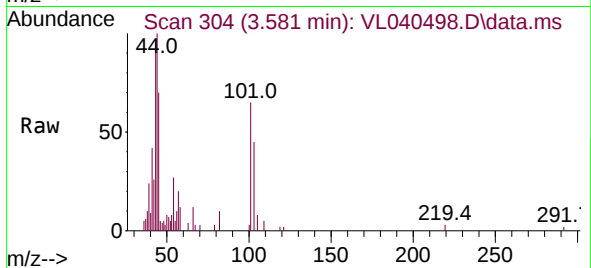
58 0.0 2.6 4.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/26/2023

Supervised By :Mahesh Dadoda 06/27/2023



#20

Methylene Chloride

Concen: 3.244 ppbv

RT: 3.931 min Scan# 413

Delta R.T. 0.006 min

Lab File: VL040498.D

Acq: 23 Jun 2023 8:15

Tgt Ion: 84 Resp: 168175

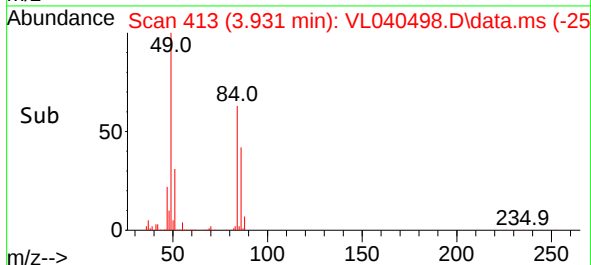
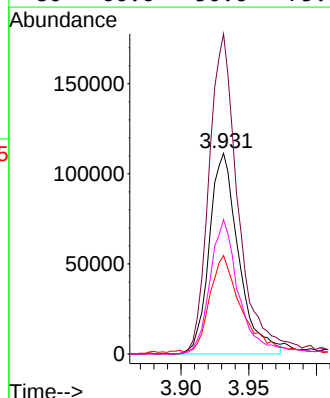
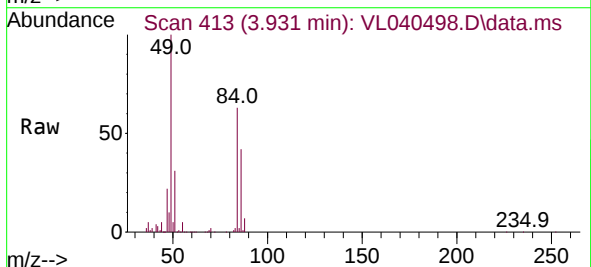
Ion Ratio Lower Upper

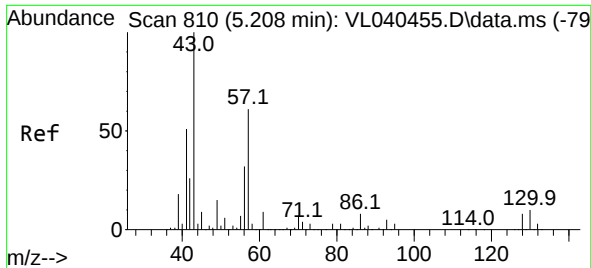
84 100

49 157.8 126.2 189.2

51 47.1 38.7 58.1

86 66.6 50.6 75.8





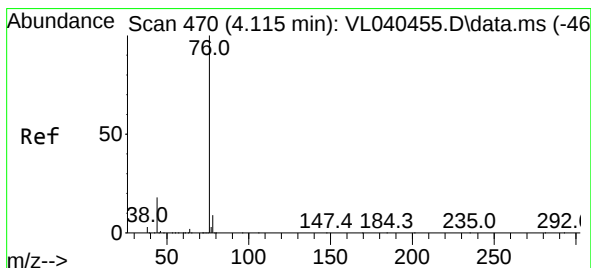
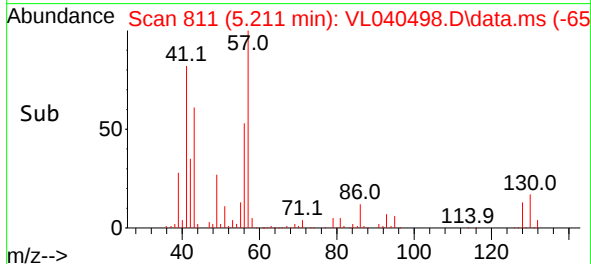
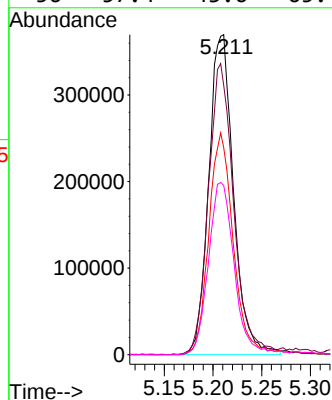
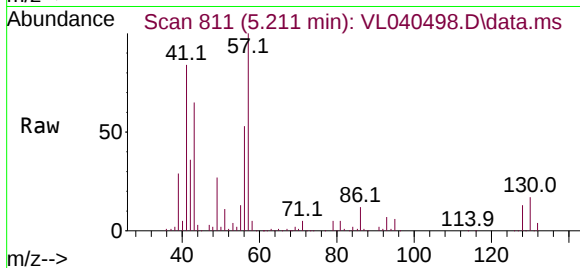
#26
Hexane
Concen: 6.275 ppbv
RT: 5.211 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 57 Resp: 654100
Ion Ratio Lower Upper
57 100
41 95.1 73.0 109.6
43 69.0 177.5 266.3
56 57.4 43.6 65.4

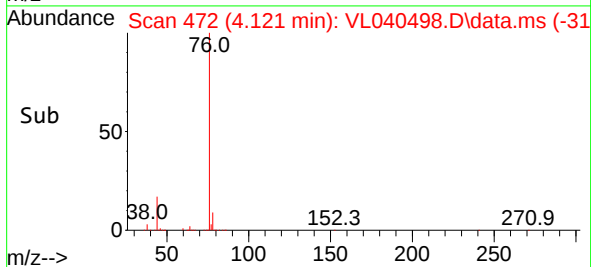
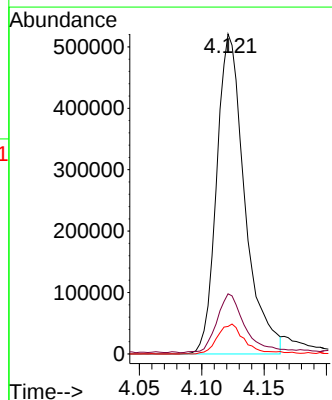
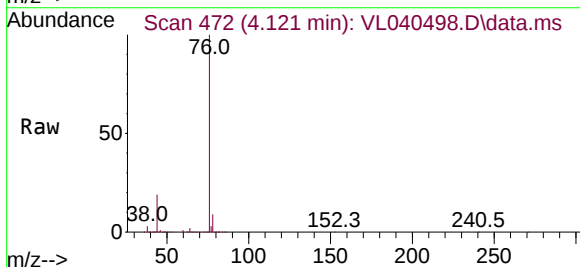
Manual Integrations
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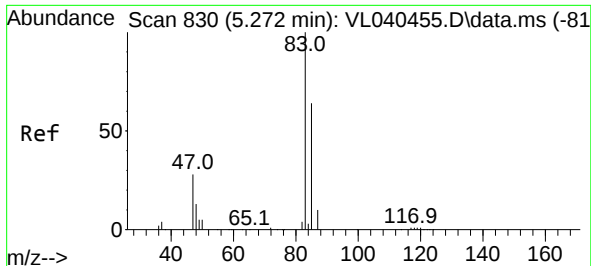
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#27
Carbon Disulfide
Concen: 6.259 ppbv
RT: 4.121 min Scan# 472
Delta R.T. 0.006 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

Tgt Ion: 76 Resp: 815972
Ion Ratio Lower Upper
76 100
44 19.5 14.6 22.0
78 9.6 7.6 11.4





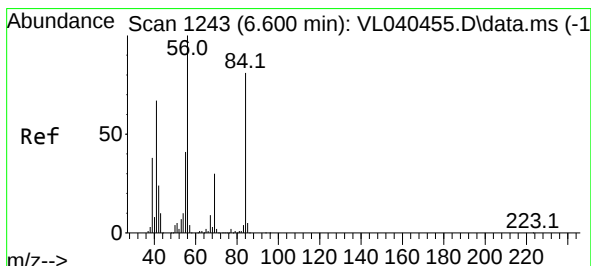
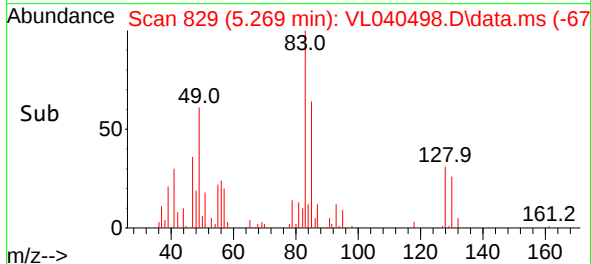
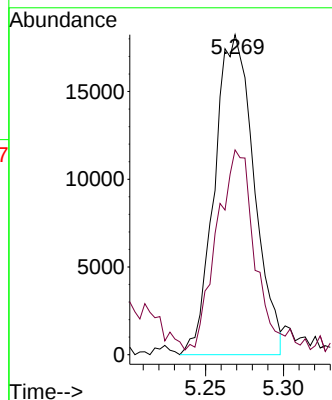
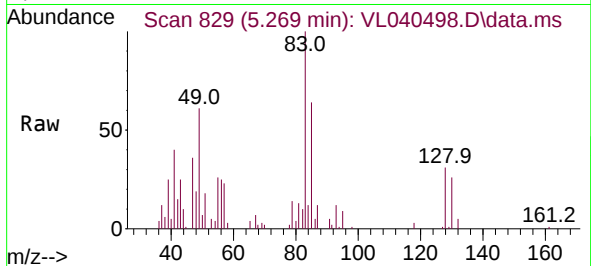
#29
Chloroform
Concen: 0.181 ppbv
RT: 5.269 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 83 Resp: 3215
Ion Ratio Lower Upper
83 100
85 60.0 51.1 76.7

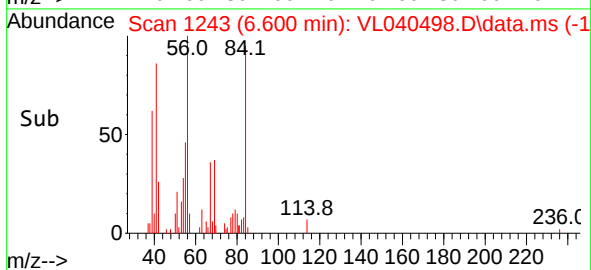
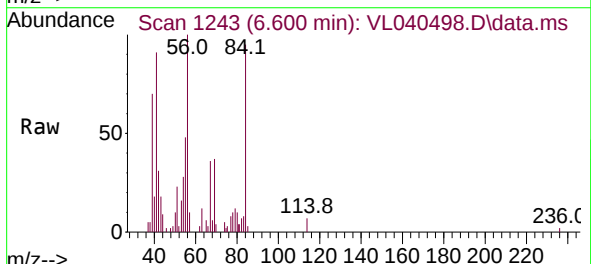
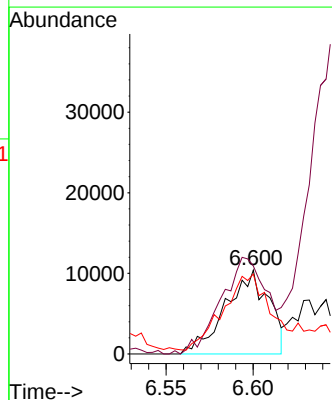
Manual Integrations
APPROVED

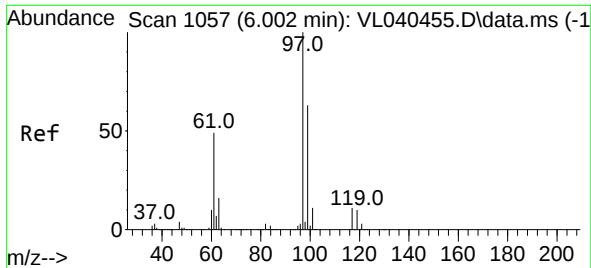
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#30
Cyclohexane
Concen: 0.214 ppbv m
RT: 6.600 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

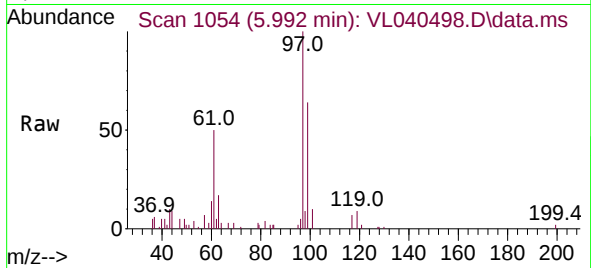
Tgt Ion: 84 Resp: 17976
Ion Ratio Lower Upper
84 100
56 126.3 106.0 159.0
41 127.6 66.8 100.2#





#32
1,1,1-Trichloroethane
Concen: 0.178 ppbv m
RT: 5.992 min Scan# 1054
Delta R.T. -0.010 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

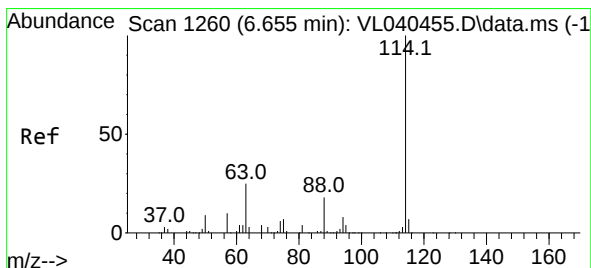
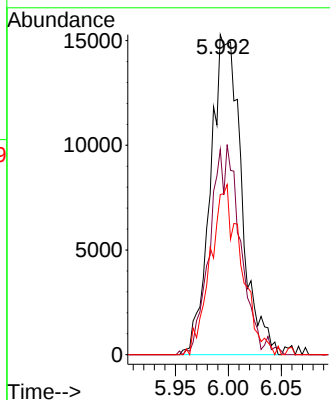
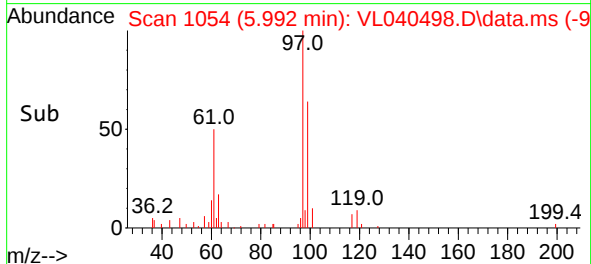
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 97 Resp: 31144
Ion Ratio Lower Upper
97 100
99 64.5 51.5 77.3
61 53.8 39.7 59.5

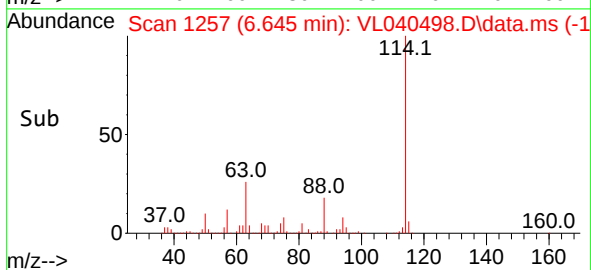
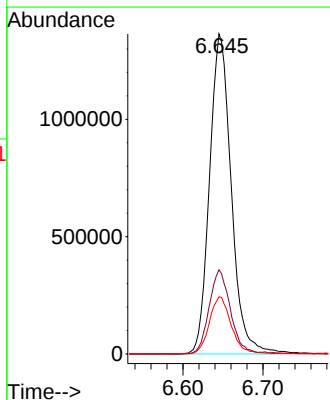
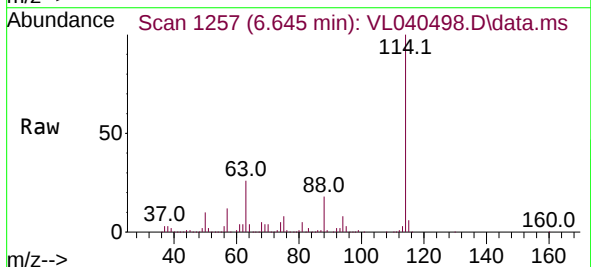
Manual Integrations
APPROVED

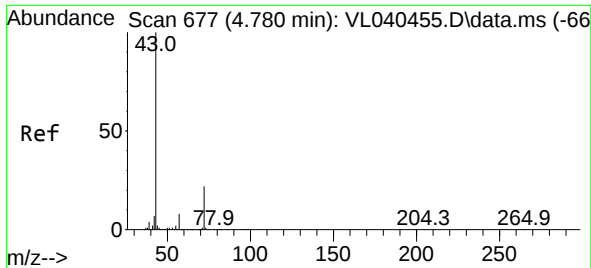
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.010 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

Tgt Ion:114 Resp: 2569517
Ion Ratio Lower Upper
114 100
63 26.3 21.0 31.6
88 18.1 14.5 21.7





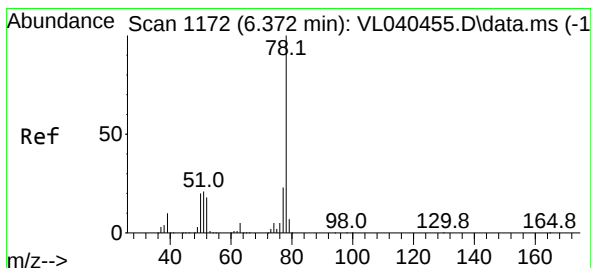
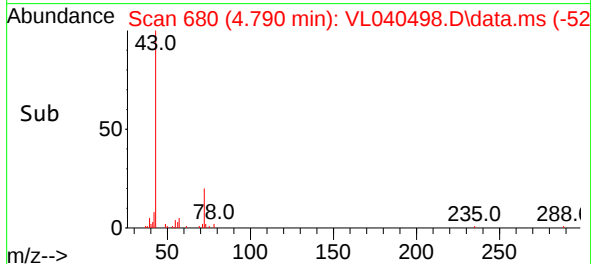
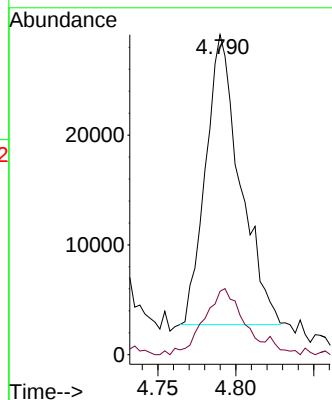
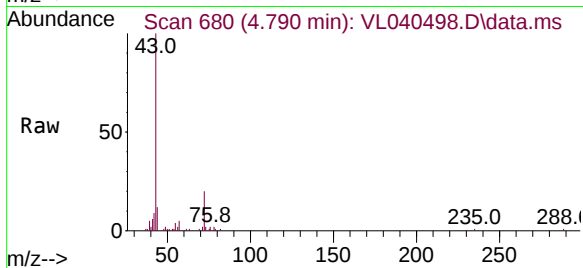
#34
2-Butanone
Concen: 0.329 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 43 Resp: 4075
Ion Ratio Lower Upper
43 100
72 27.9 18.1 27.1

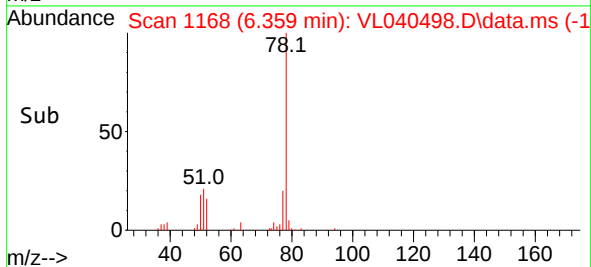
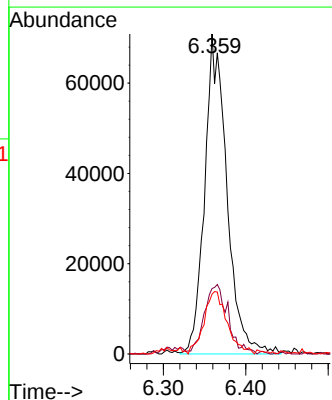
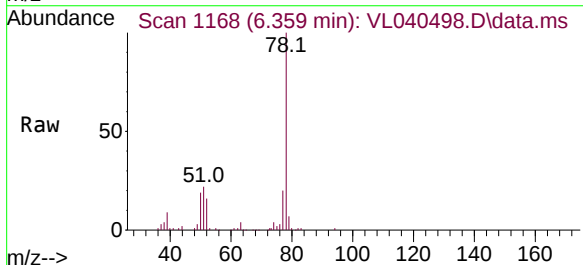
Manual Integrations
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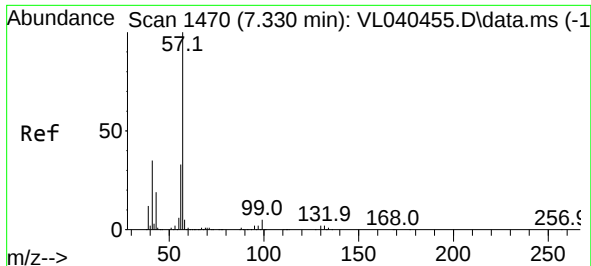
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#36
Benzene
Concen: 0.650 ppbv m
RT: 6.359 min Scan# 1168
Delta R.T. -0.013 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

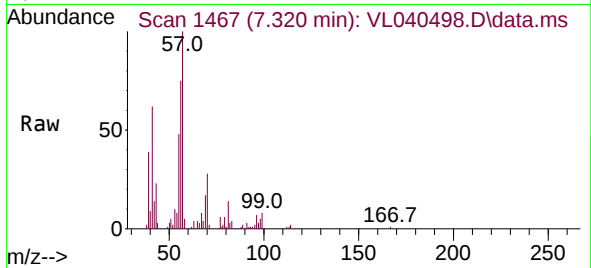
Tgt Ion: 78 Resp: 132857
Ion Ratio Lower Upper
78 100
77 20.5 18.5 27.7
50 18.7 16.1 24.1





#44
2,2,4-Trimethylpentane
Concen: 0.183 ppbv m
RT: 7.320 min Scan# 1470
Delta R.T. -0.010 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

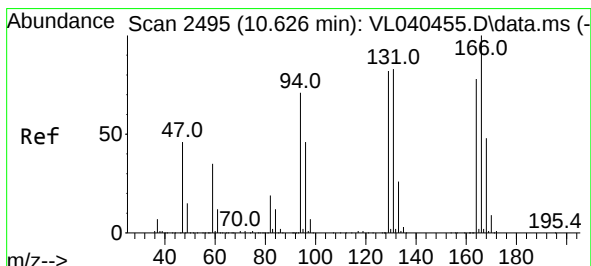
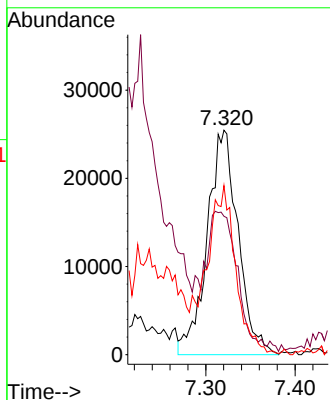
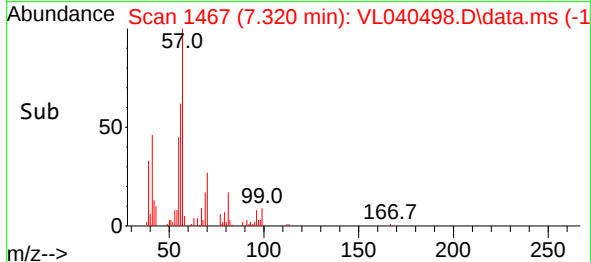
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 57 Resp: 6110
Ion Ratio Lower Upper
57 100
41 69.7 27.8 41.8
56 70.0 25.3 37.9

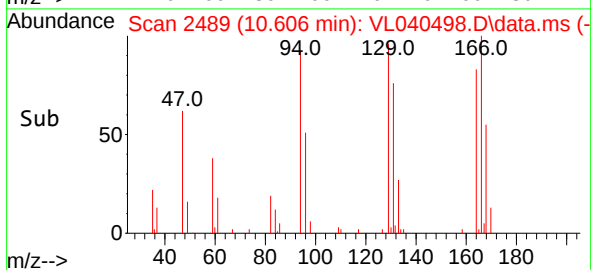
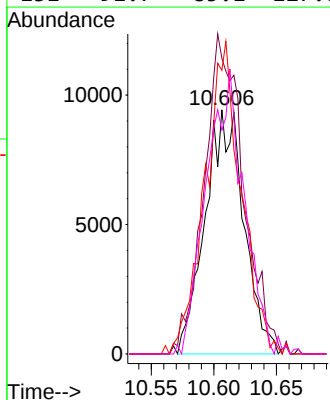
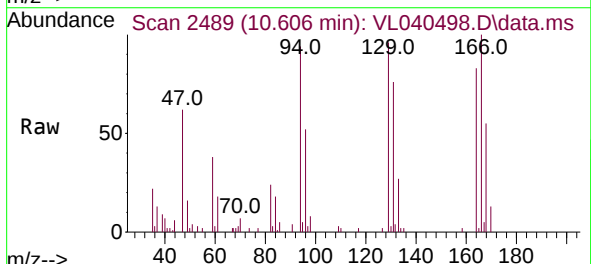
Manual Integrations
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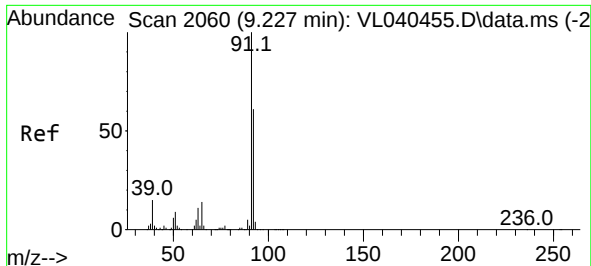
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#52
Tetrachloroethene
Concen: 0.317 ppbv m
RT: 10.606 min Scan# 2489
Delta R.T. -0.019 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

Tgt Ion:164 Resp: 20314
Ion Ratio Lower Upper
164 100
166 121.1 102.7 154.1
129 116.2 84.6 126.8
131 91.7 85.1 127.7





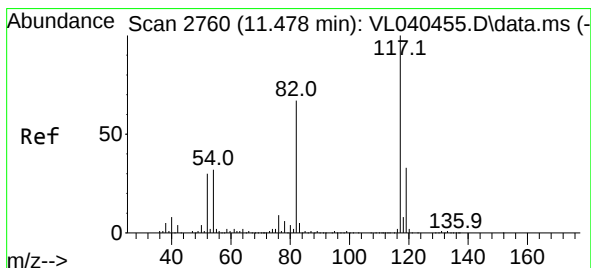
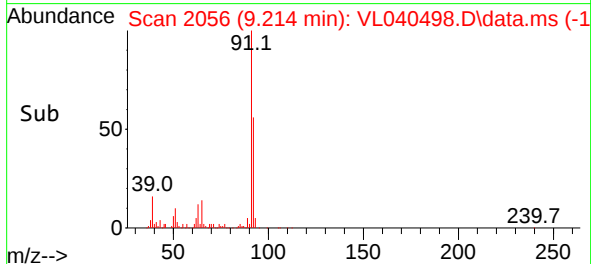
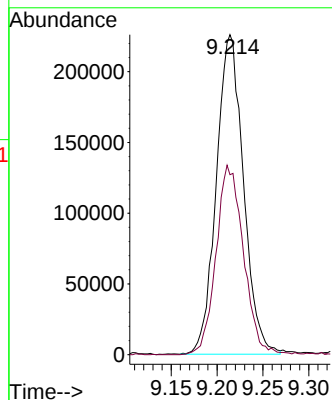
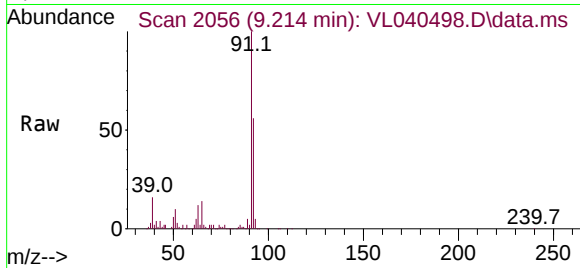
#53
Toluene
Concen: 2.156 ppbv
RT: 9.214 min Scan# 2060
Delta R.T. -0.013 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 91 Resp: 46403
Ion Ratio Lower Upper
91 100
92 60.1 49.1 73.7

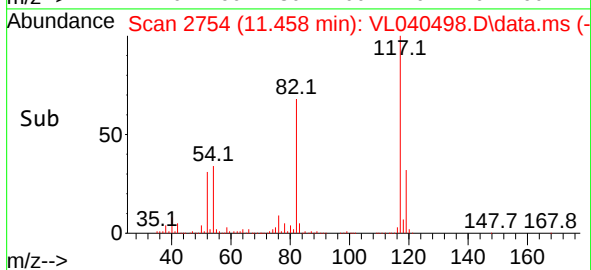
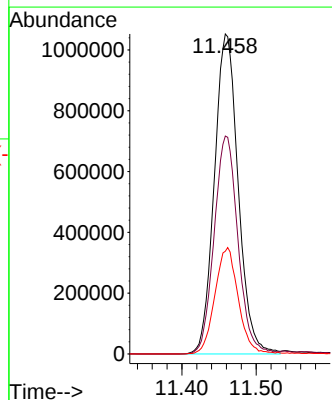
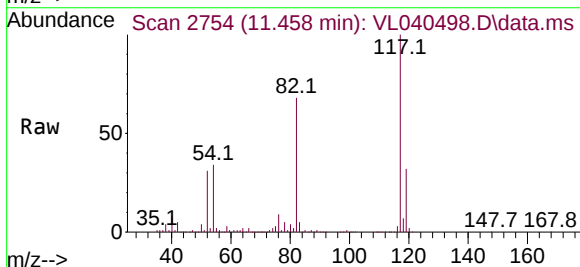
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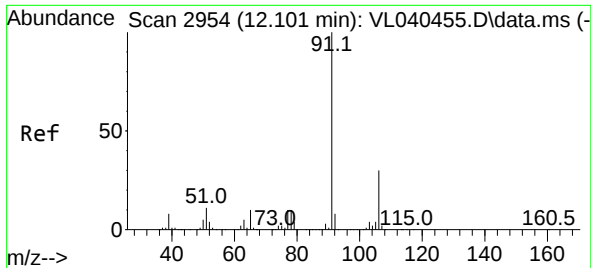
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 2754
Delta R.T. -0.019 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

Tgt Ion:117 Resp: 2352749
Ion Ratio Lower Upper
117 100
82 69.2 53.0 79.4
119 32.8 24.4 36.6





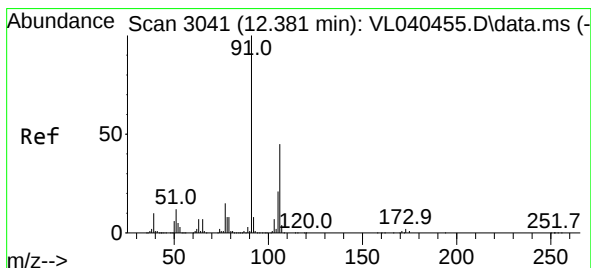
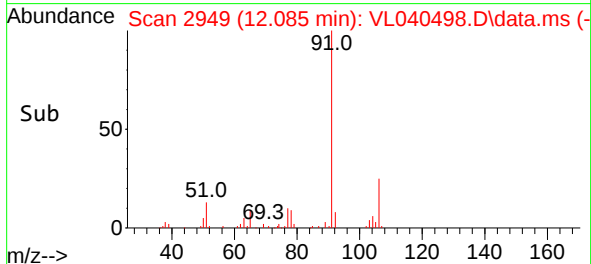
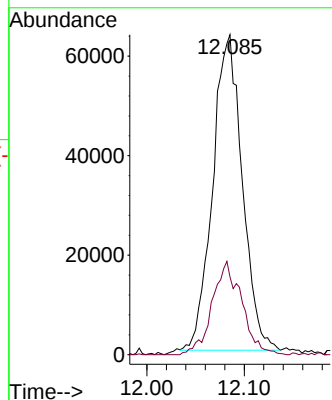
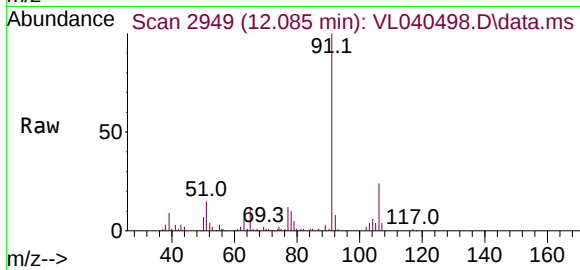
#58
Ethyl Benzene
Concen: 0.470 ppbv
RT: 12.085 min Scan# 2954
Delta R.T. -0.016 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 91 Resp: 133875
Ion Ratio Lower Upper
91 100
106 24.7 23.7 35.5

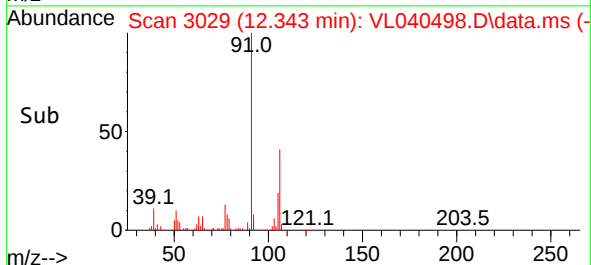
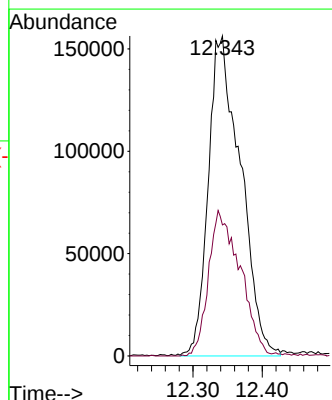
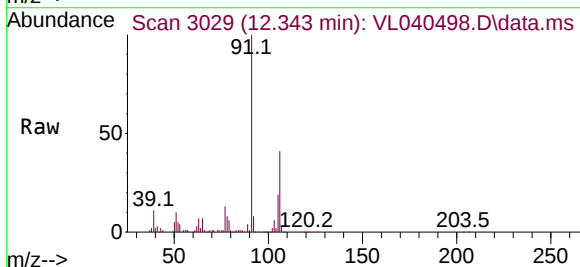
Manual Integrations
APPROVED

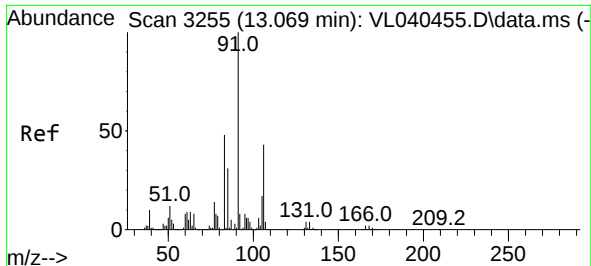
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#59
m/p-Xylene
Concen: 1.929 ppbv m
RT: 12.343 min Scan# 3029
Delta R.T. -0.039 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

Tgt Ion: 91 Resp: 505362
Ion Ratio Lower Upper
91 100
106 0.0 34.6 52.0#





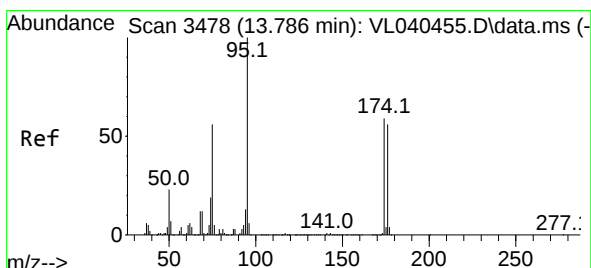
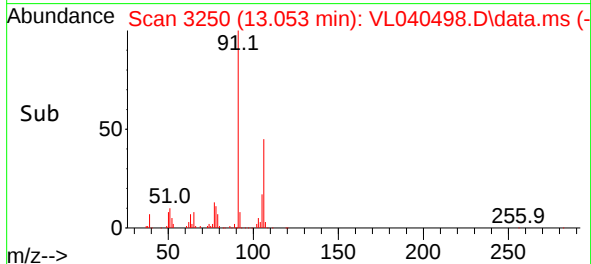
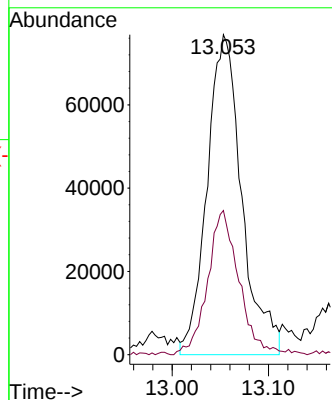
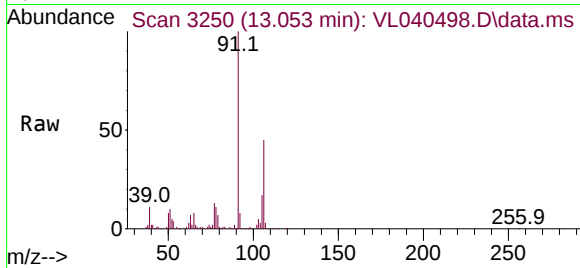
#60
o-Xylene
Concen: 0.774 ppbv m
RT: 13.053 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 91 Resp: 192330
Ion Ratio Lower Upper
91 100
106 41.2 22.1 66.1

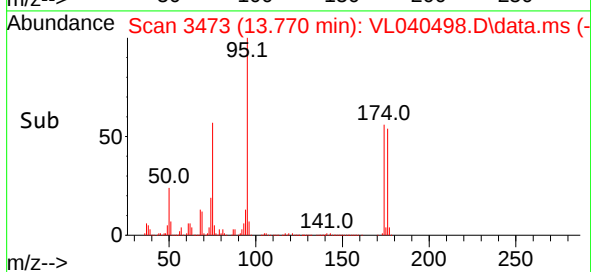
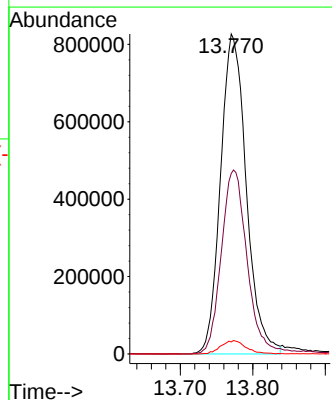
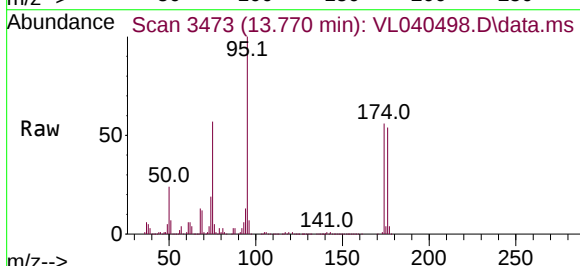
Manual Integrations
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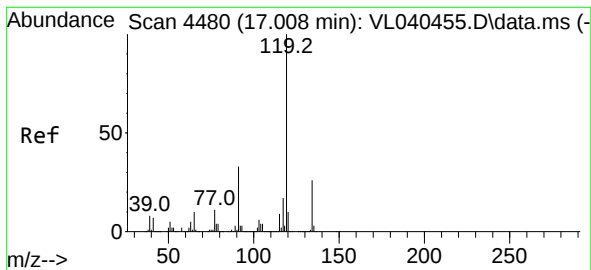
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 10.485 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. -0.016 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

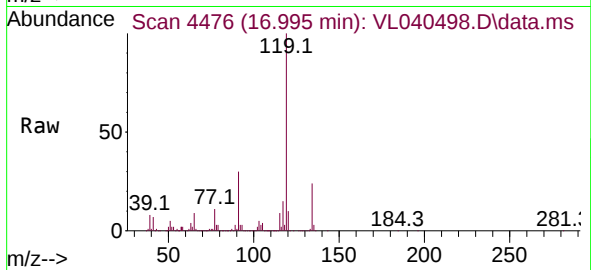
Tgt Ion: 95 Resp: 2035903
Ion Ratio Lower Upper
95 100
174 58.8 47.7 71.5
175 4.2 3.5 5.3





#69
p-Isopropyltoluene
Concen: 4.707 ppbv
RT: 16.995 min Scan# 4480
Delta R.T. -0.013 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

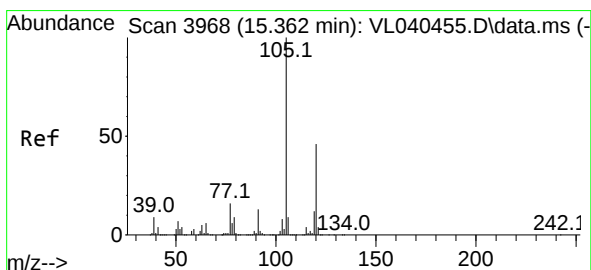
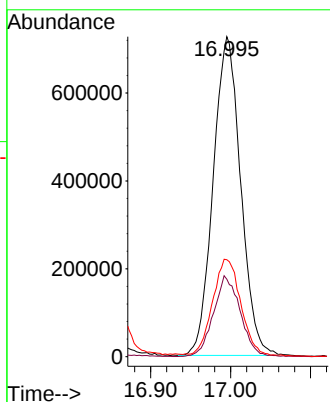
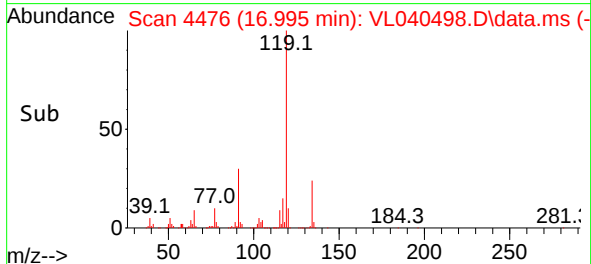
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion:119 Resp: 1728500
Ion Ratio Lower Upper
119 100
134 24.9 20.3 30.5
91 32.1 25.5 38.3

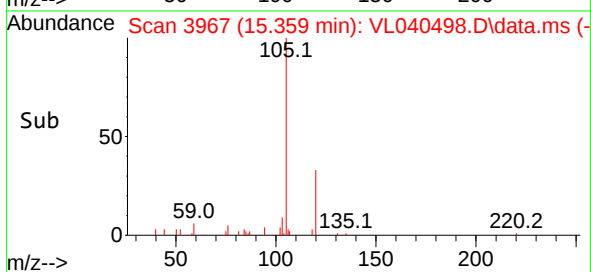
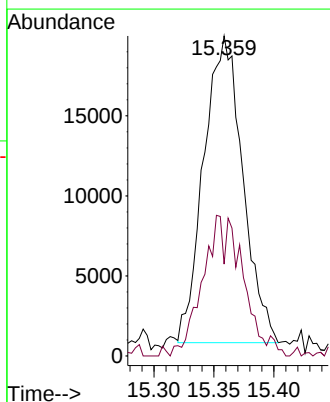
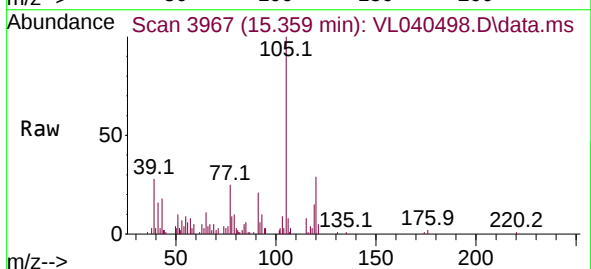
Manual Integrations
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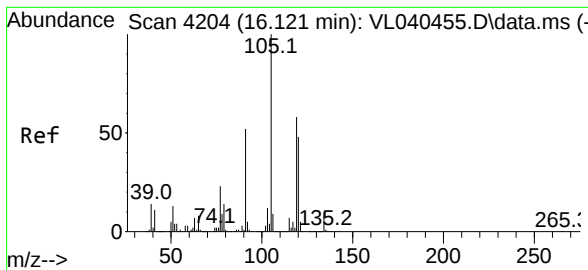
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#73
1,3,5-Trimethylbenzene
Concen: 0.175 ppbv
RT: 15.359 min Scan# 3967
Delta R.T. -0.003 min
Lab File: VL040498.D
Acq: 23 Jun 2023 8:15

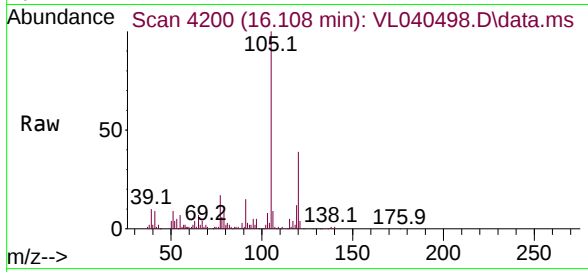
Tgt Ion:105 Resp: 43289
Ion Ratio Lower Upper
105 100
120 26.8 36.4 54.6#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.686 ppbv
 RT: 16.108 min Scan# 41
 Delta R.T. -0.013 min
 Lab File: VL040498.D
 Acq: 23 Jun 2023 8:15

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1



Tgt Ion:	105	Resp:	199610
Ion	Ratio	Lower	Upper
105	100		
120	39.1	38.4	57.6
91	10.3	41.3	61.9
77	12.9	18.6	28.0

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 06/26/2023
 Supervised By :Mahesh Dadoda 06/27/2023

