

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040423\
 Data File : VL040307.D
 Acq On : 4 Apr 2023 16:13
 Operator : SY/MD
 Sample : 02168-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/05/2023
 Supervised By :Mahesh Dadoda 04/05/2023

Quant Time: Apr 05 01:30:55 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Wed Mar 15 16:14:43 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	984943	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2351843	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	1822897	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1562040	10.233	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.710	85	99727	0.516	ppbv	99
3) Chlorodifluoromethane	2.655	51	55583m	0.449	ppbv	
4) Chloromethane	2.796	50	33940	0.444	ppbv	92
9) Propene	2.687	41	1622678m	34.199	ppbv	
10) Heptane	7.574	43	19655m	0.172	ppbv	
11) Trichlorofluoromethane	3.546	101	36171	0.207	ppbv	94
13) Ethanol	3.221	45	2352832	676.113	ppbv	96
15) Acetone	3.449	43	17677040	147.419	ppbv #	63
19) Isopropyl Alcohol	3.565	45	2409886	41.955	ppbv #	90
20) Methylene Chloride	3.925	84	243488	4.827	ppbv	98
25) Ethyl Acetate	5.195	43	523096	2.330	ppbv	97
26) Hexane	5.205	57	148850	1.615	ppbv #	56
29) Chloroform	5.272	83	30608	0.188	ppbv	99
34) 2-Butanone	4.780	43	39004	0.336	ppbv	95
35) Carbon Tetrachloride	6.491	117	11286m	0.076	ppbv	
36) Benzene	6.372	78	73044	0.408	ppbv	93
44) 2,2,4-Trimethylpentane	7.324	57	51627	0.173	ppbv #	76
52) Tetrachloroethene	10.623	164	5684m	0.105	ppbv	
53) Toluene	9.221	91	199375	1.061	ppbv	96
58) Ethyl Benzene	12.089	91	30224	0.146	ppbv #	87
59) m/p-Xylene	12.346	91	66870m	0.352	ppbv	
60) o-Xylene	13.056	91	24837m	0.137	ppbv	

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

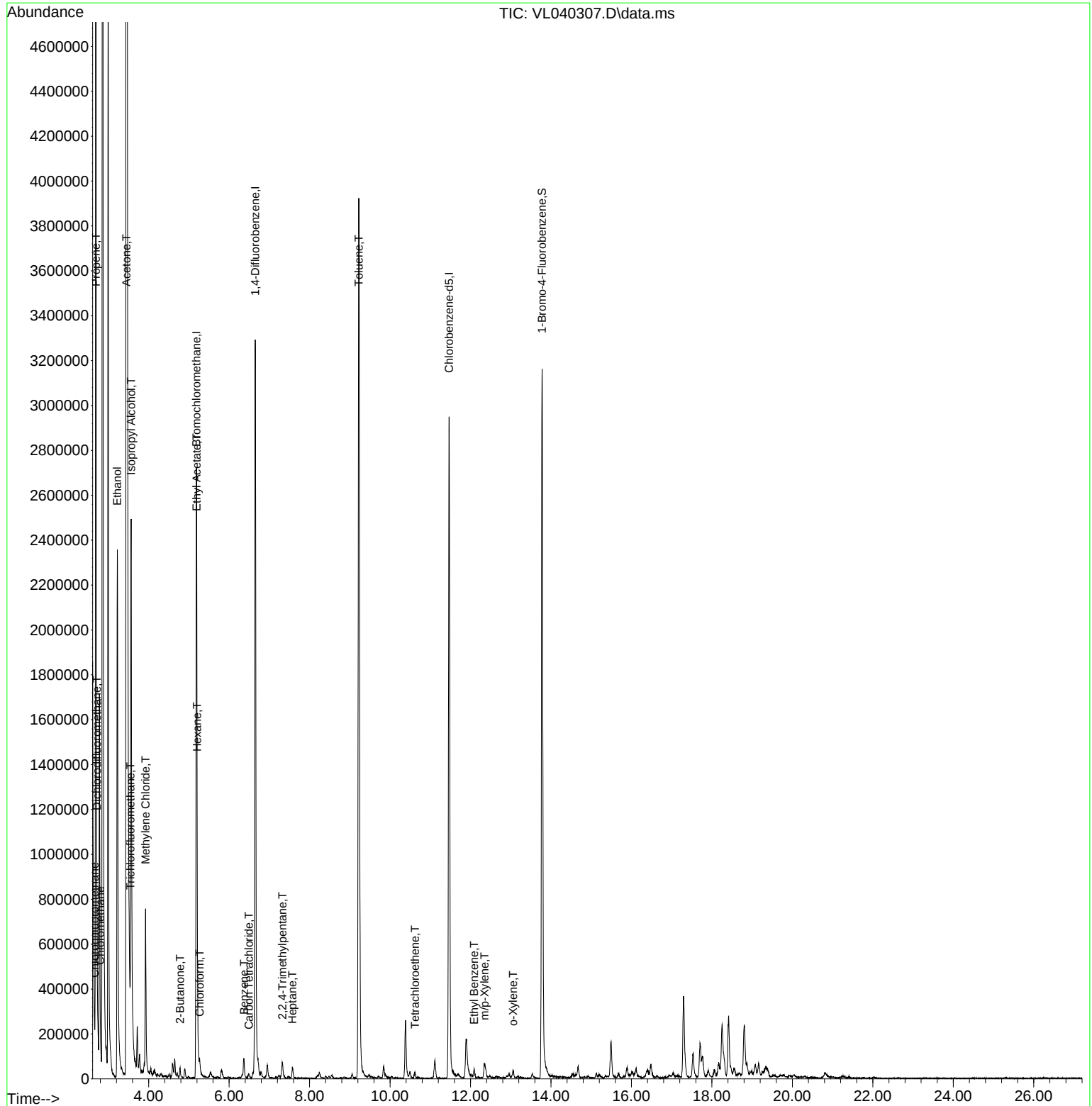
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040423\
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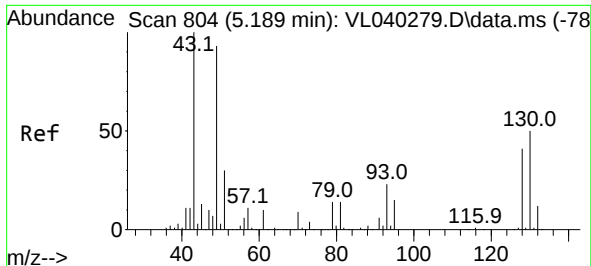
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Apr 05 01:30:55 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Mar 15 16:14:43 2023
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Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 04/05/2023
Supervised By : Mahesh Dadoda 04/05/2023





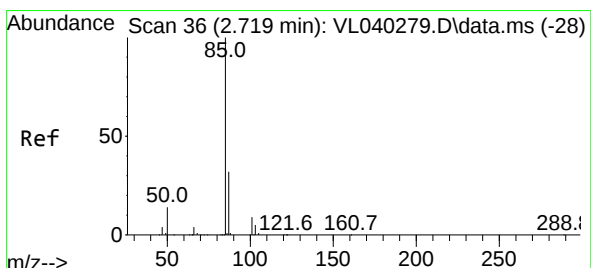
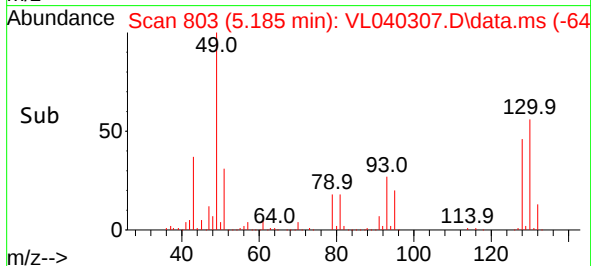
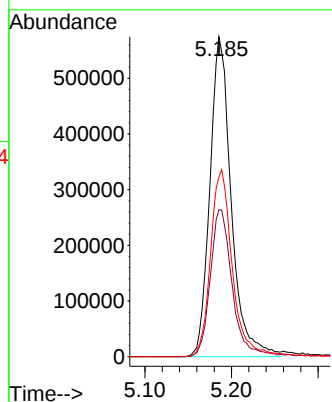
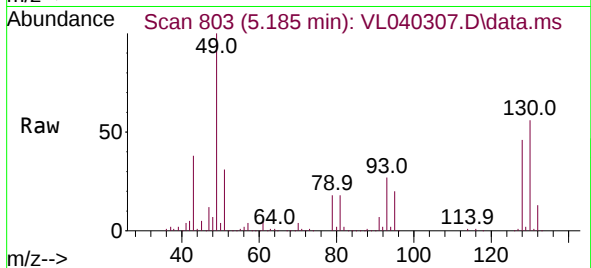
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.004 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 49 Resp: 98494
Ion Ratio Lower Upper
49 100
128 47.7 22.4 67.3
130 60.5 28.7 86.1

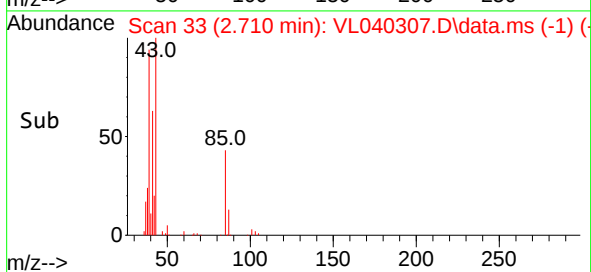
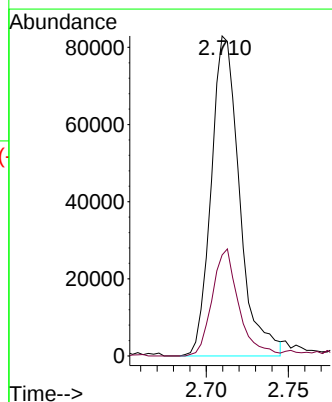
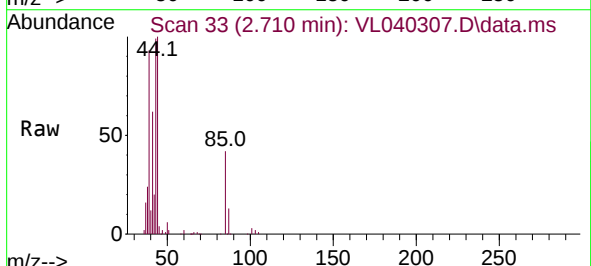
Manual Integrations
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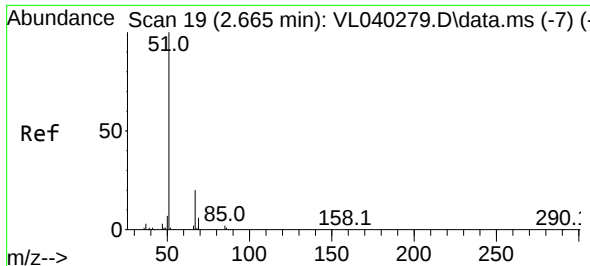
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#2
Dichlorodifluoromethane
Concen: 0.516 ppbv
RT: 2.710 min Scan# 33
Delta R.T. -0.009 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

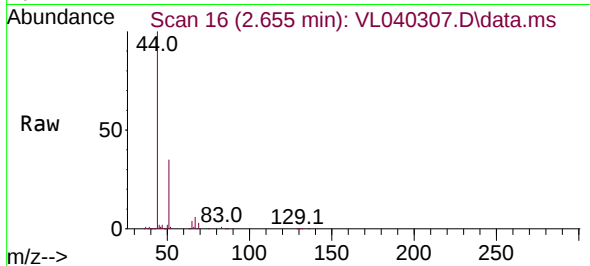
Tgt Ion: 85 Resp: 99727
Ion Ratio Lower Upper
85 100
87 31.6 25.5 38.3





#3
Chlorodifluoromethane
Concen: 0.449 ppbv m
RT: 2.655 min Scan# 10
Delta R.T. -0.010 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

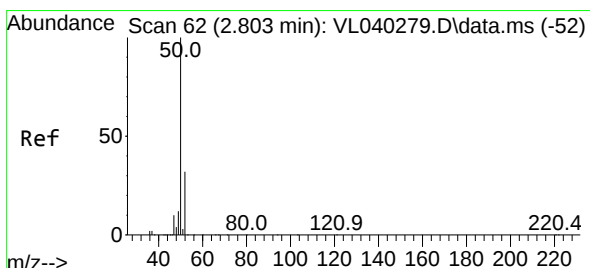
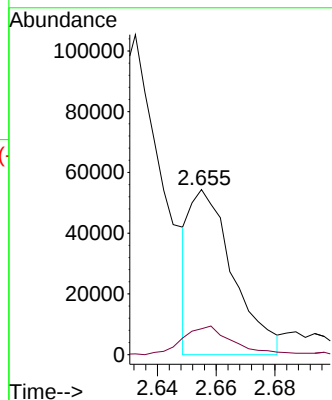
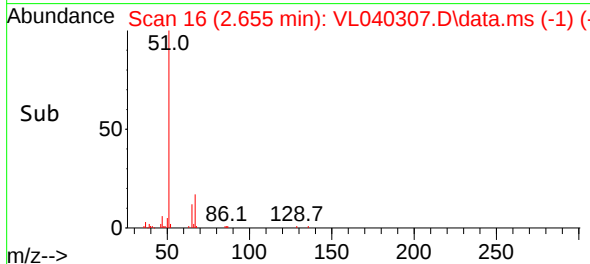
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



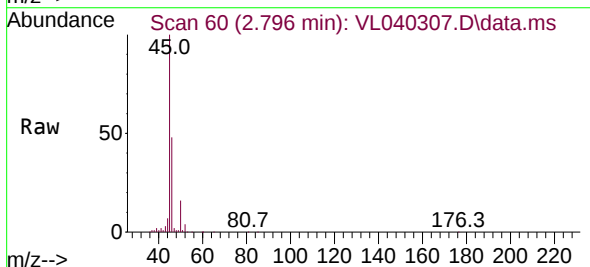
Tgt Ion: 51 Resp: 5558
Ion Ratio Lower Upper
51 100
67 20.4 16.0 24.0

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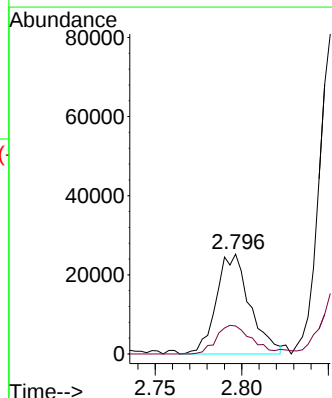
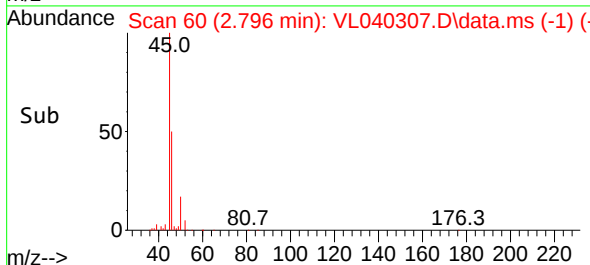
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023

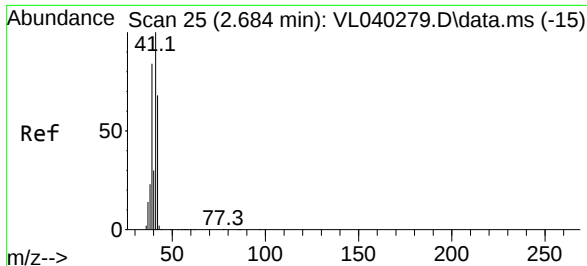


#4
Chloromethane
Concen: 0.444 ppbv
RT: 2.796 min Scan# 60
Delta R.T. -0.007 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13



Tgt Ion: 50 Resp: 33940
Ion Ratio Lower Upper
50 100
52 28.0 25.9 38.9





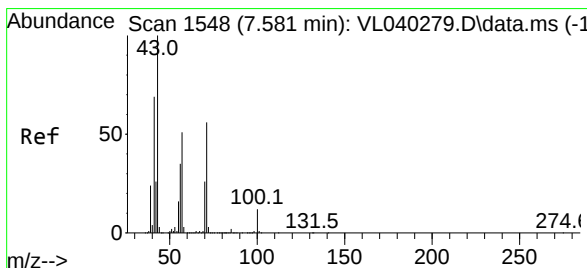
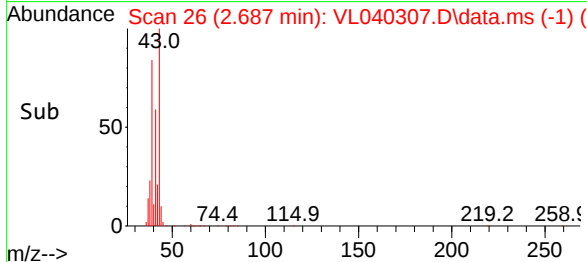
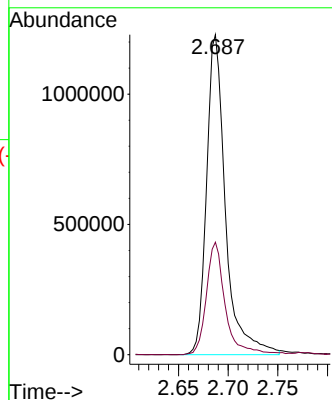
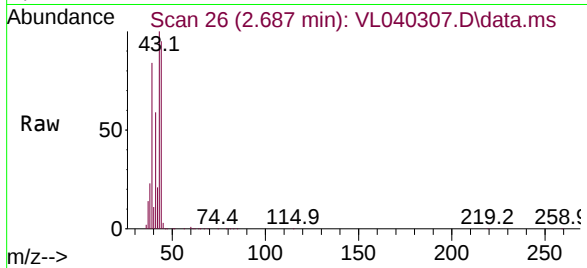
#9
Propene
Concen: 34.199 ppbv m
RT: 2.687 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 41 Resp: 1622678
Ion Ratio Lower Upper
41 100
42 174.8 59.0 88.4

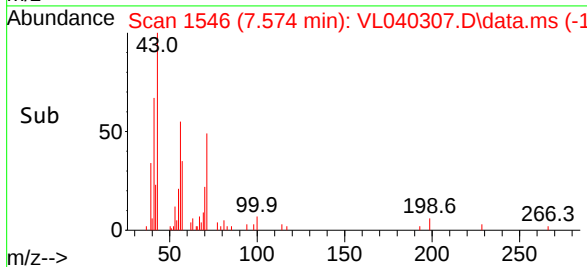
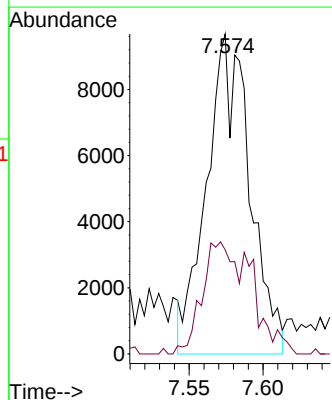
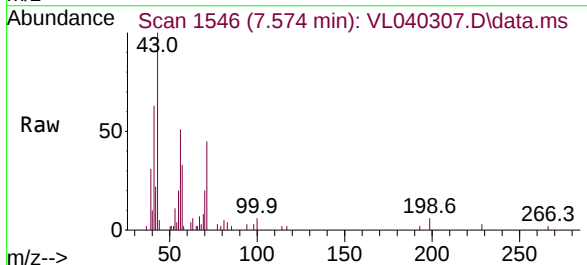
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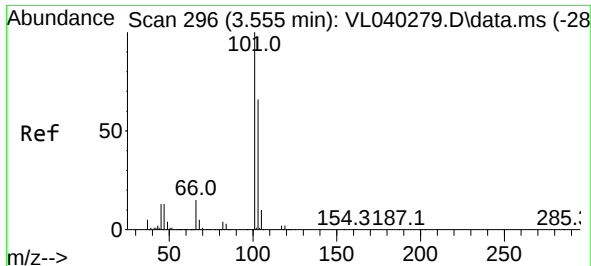
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#10
Heptane
Concen: 0.172 ppbv m
RT: 7.574 min Scan# 1546
Delta R.T. -0.007 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

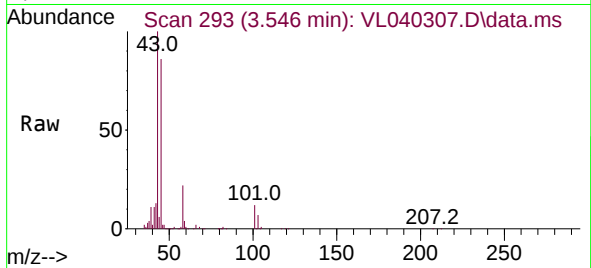
Tgt Ion: 43 Resp: 19655
Ion Ratio Lower Upper
43 100
57 40.4 41.7 62.5





#11
Trichlorofluoromethane
Concen: 0.207 ppbv
RT: 3.546 min Scan# 296
Delta R.T. -0.009 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

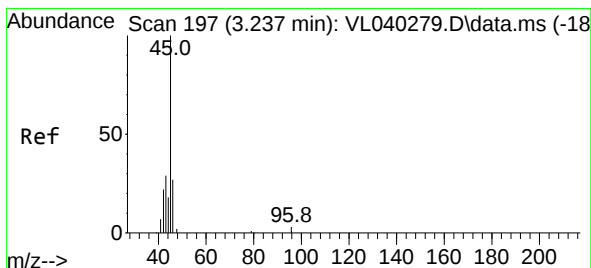
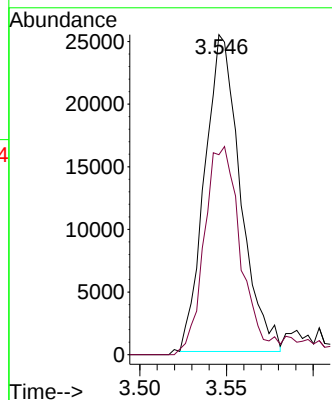
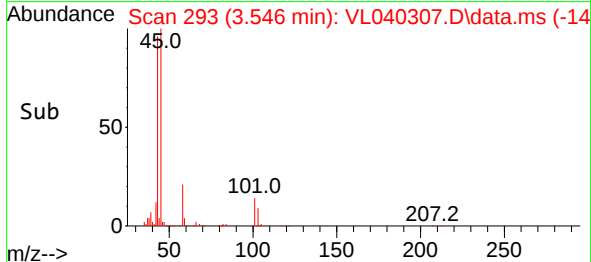
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:101 Resp: 3617
Ion Ratio Lower Upper
101 100
103 61.4 53.1 79.7

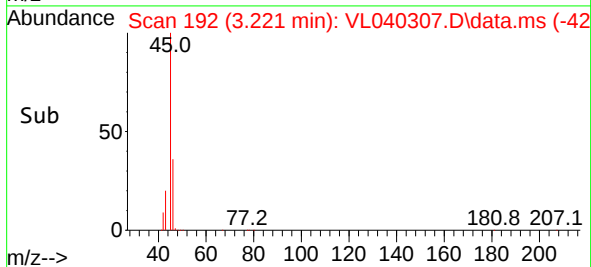
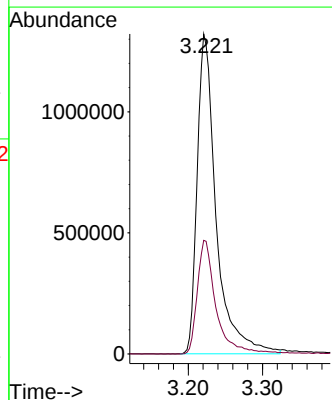
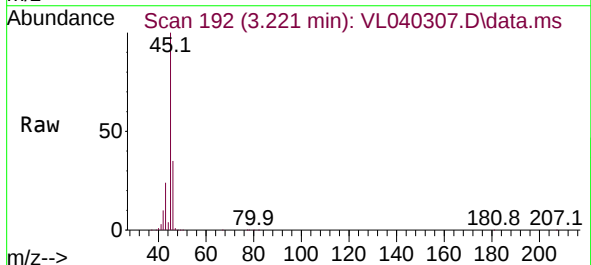
Manual Integrations
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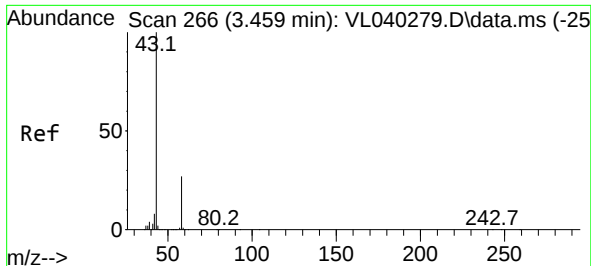
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#13
Ethanol
Concen: 676.113 ppbv
RT: 3.221 min Scan# 192
Delta R.T. -0.016 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

Tgt Ion: 45 Resp: 2352832
Ion Ratio Lower Upper
45 100
46 35.3 15.0 60.2





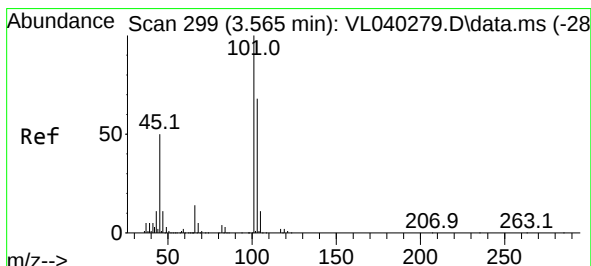
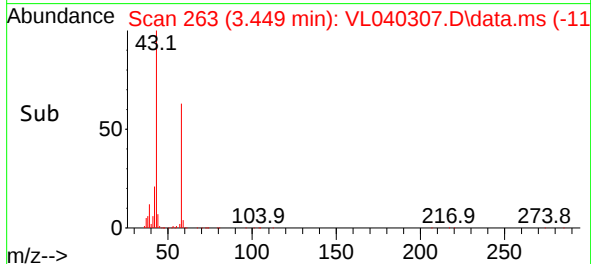
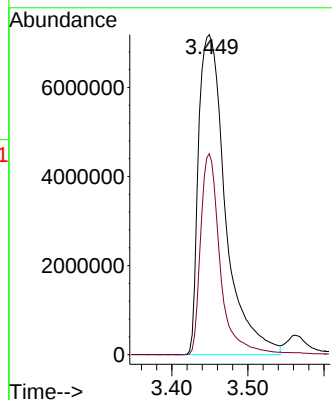
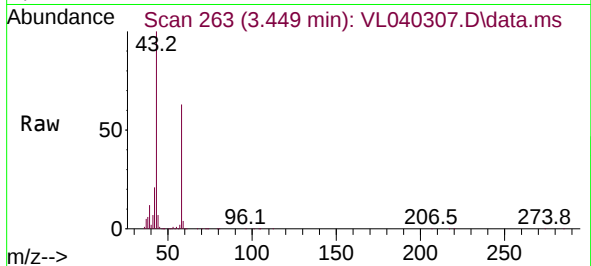
#15
Acetone
Concen: 147.419 ppbv
RT: 3.449 min Scan# 20
Delta R.T. -0.010 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp:17677040
Ion Ratio Lower Upper
43 100
58 46.6 21.8 32.8

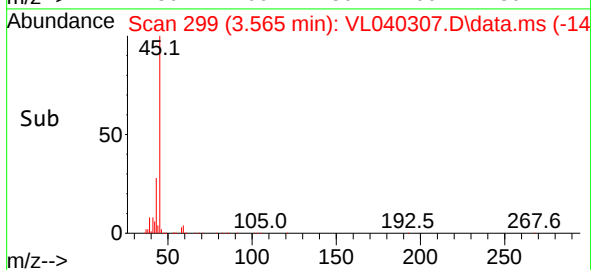
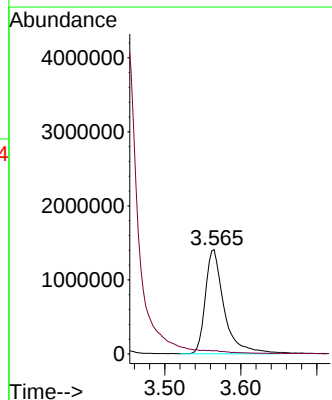
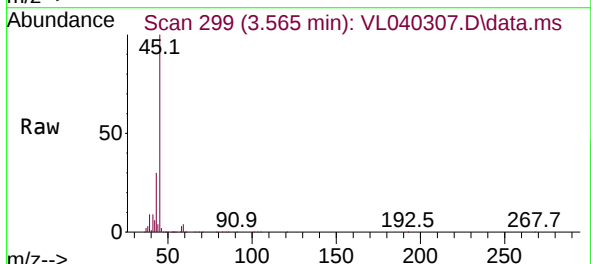
Manual Integrations
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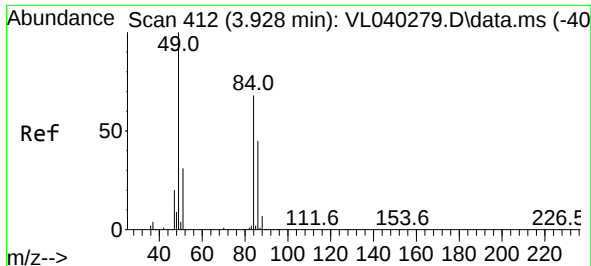
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#19
Isopropyl Alcohol
Concen: 41.955 ppbv
RT: 3.565 min Scan# 299
Delta R.T. -0.000 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

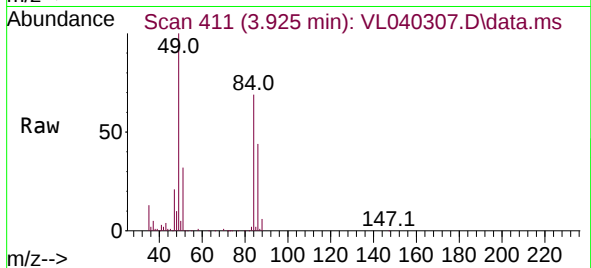
Tgt Ion: 45 Resp: 2409886
Ion Ratio Lower Upper
45 100
58 0.0 2.7 4.1





#20
Methylene Chloride
Concen: 4.827 ppbv
RT: 3.925 min Scan# 411
Delta R.T. -0.003 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

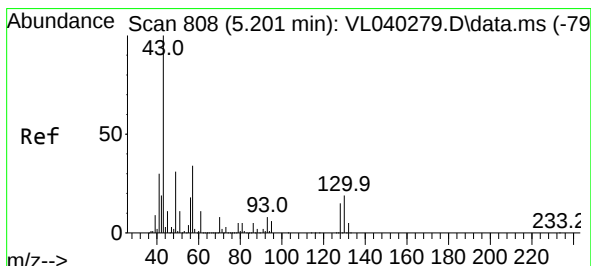
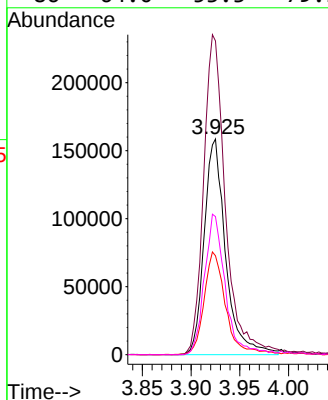
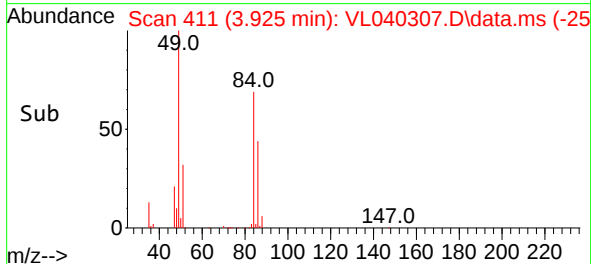
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 84 Resp: 243488
Ion Ratio Lower Upper
84 100
49 145.4 117.5 176.3
51 45.6 36.9 55.3
86 64.0 53.3 79.9

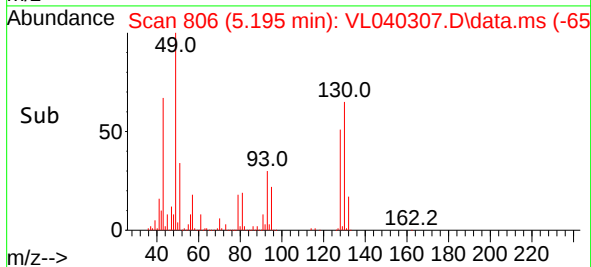
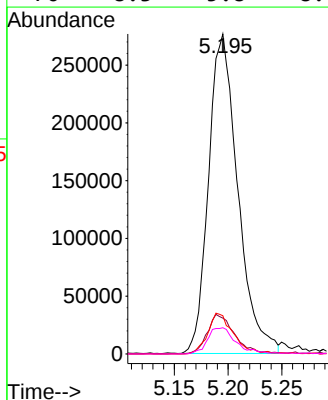
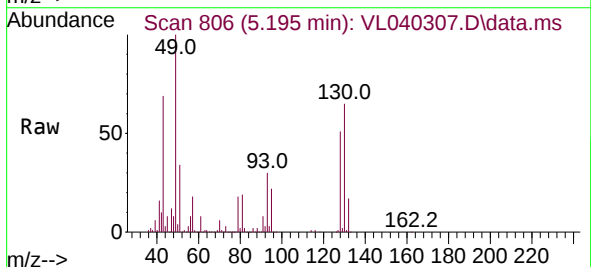
Manual Integrations
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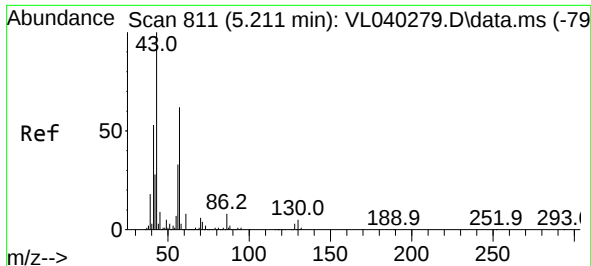
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#25
Ethyl Acetate
Concen: 2.330 ppbv
RT: 5.195 min Scan# 806
Delta R.T. -0.006 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

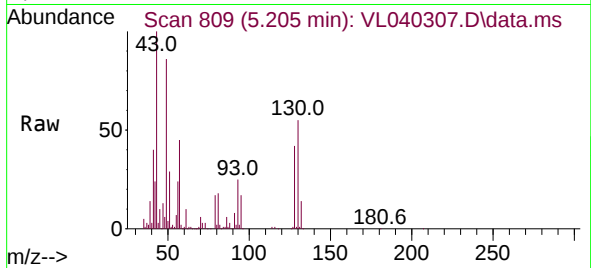
Tgt Ion: 43 Resp: 523096
Ion Ratio Lower Upper
43 100
45 11.8 8.6 12.8
61 11.5 8.4 12.6
70 8.3 5.8 8.6





#26
Hexane
Concen: 1.615 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.006 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

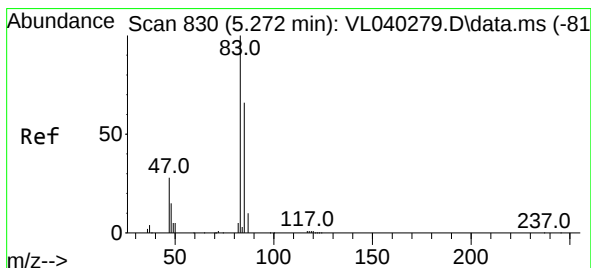
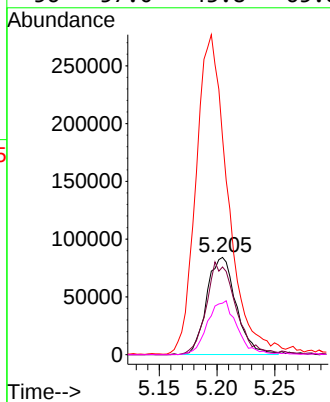
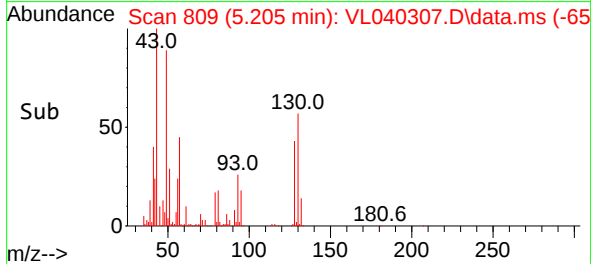
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 57 Resp: 148850
Ion Ratio Lower Upper
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43 362.5 196.3 294.5
56 57.0 43.8 65.8

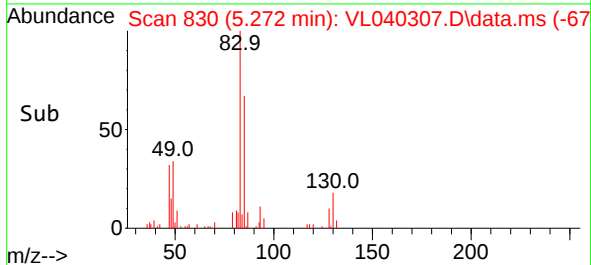
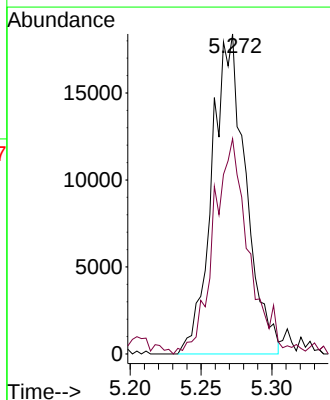
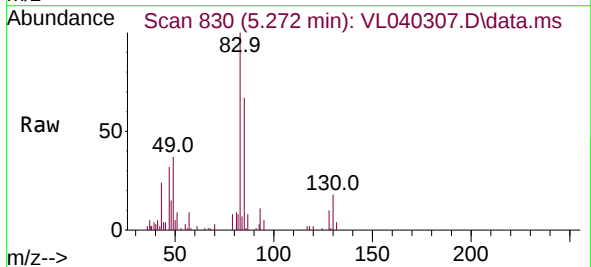
Manual Integrations
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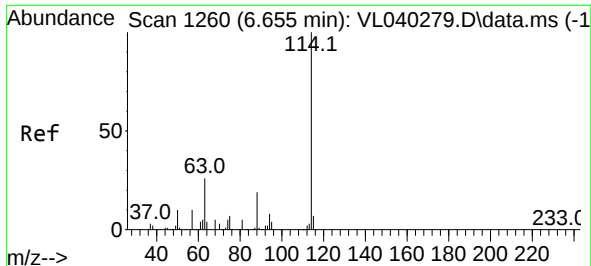
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#29
Chloroform
Concen: 0.188 ppbv
RT: 5.272 min Scan# 830
Delta R.T. 0.000 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

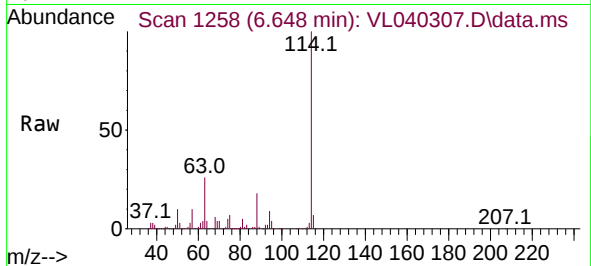
Tgt Ion: 83 Resp: 30608
Ion Ratio Lower Upper
83 100
85 65.5 52.8 79.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 114
Delta R.T. -0.007 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

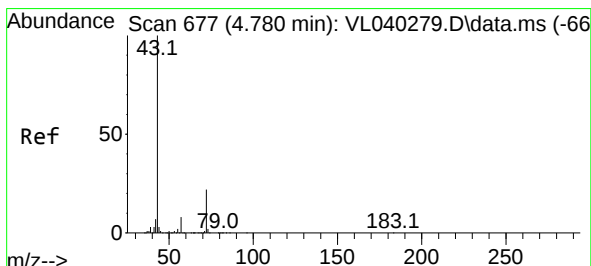
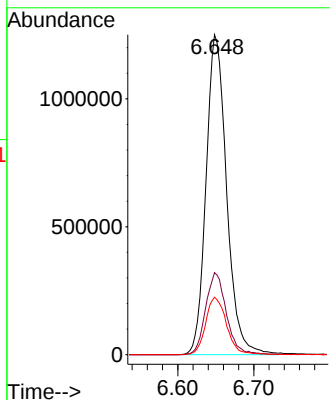
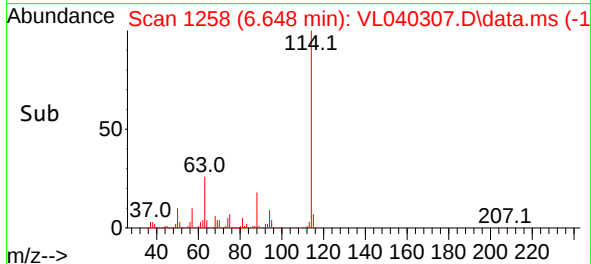
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:114 Resp: 235184
Ion Ratio Lower Upper
114 100
63 26.0 21.2 31.8
88 18.3 14.5 21.7

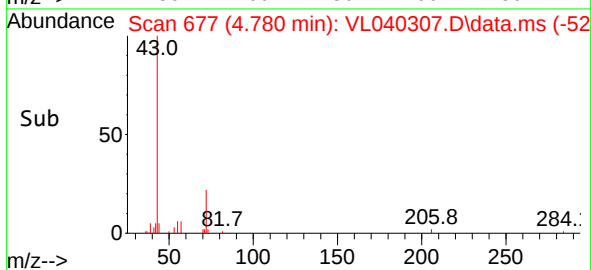
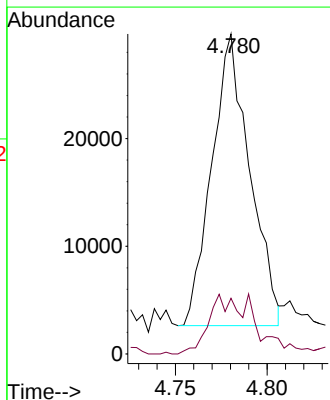
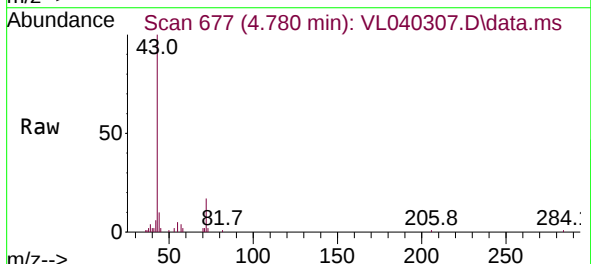
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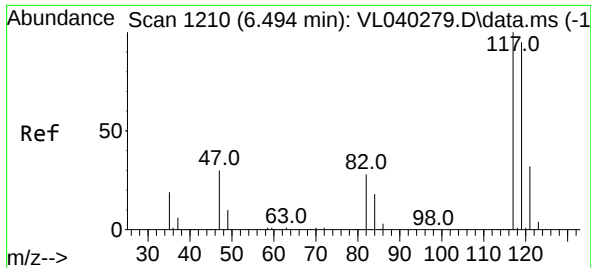
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#34
2-Butanone
Concen: 0.336 ppbv
RT: 4.780 min Scan# 677
Delta R.T. 0.000 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

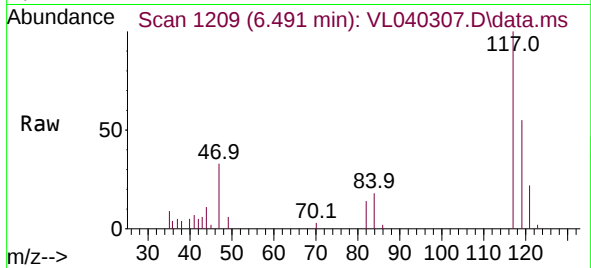
Tgt Ion: 43 Resp: 39004
Ion Ratio Lower Upper
43 100
72 25.1 18.3 27.5





#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 6.491 min Scan# 1128
Delta R.T. -0.003 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

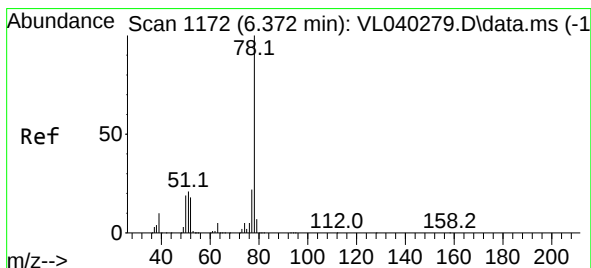
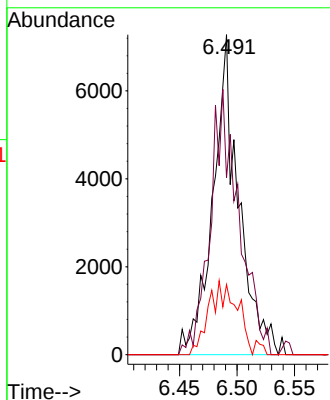
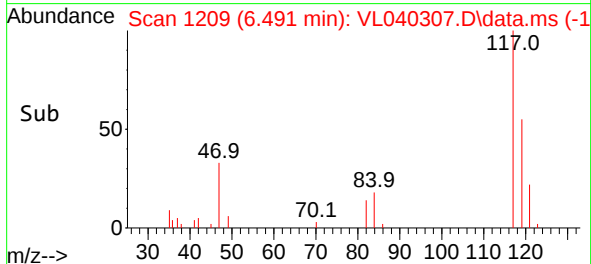
Instrument : MSVOA_L
ClientSampleId : IA1DUP



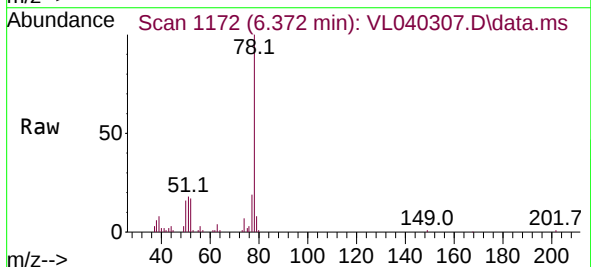
Tgt Ion: 117 Resp: 1128
Ion Ratio Lower Upper
117 100
119 55.3 76.4 114.6
121 21.9 25.6 38.4

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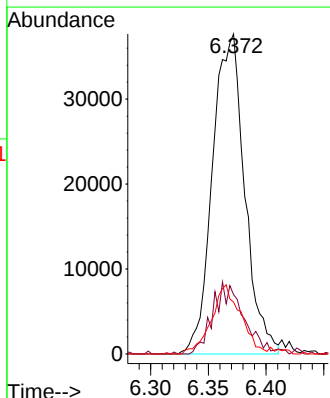
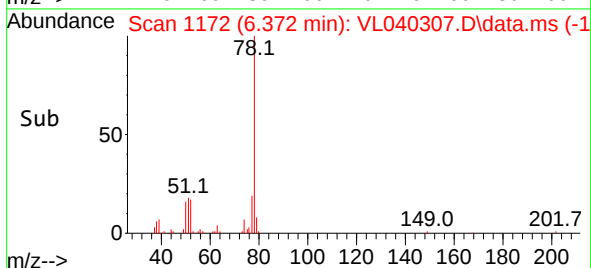
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023

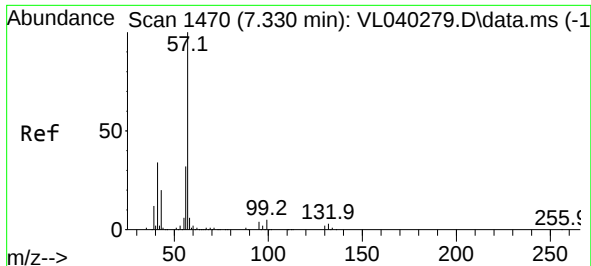


#36
Benzene
Concen: 0.408 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13



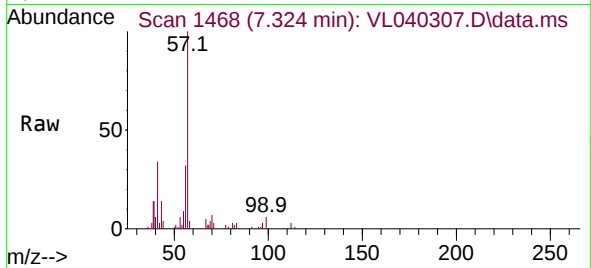
Tgt Ion: 78 Resp: 73044
Ion Ratio Lower Upper
78 100
77 18.6 17.8 26.8
50 16.2 15.4 23.2





#44
2,2,4-Trimethylpentane
Concen: 0.173 ppbv
RT: 7.324 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

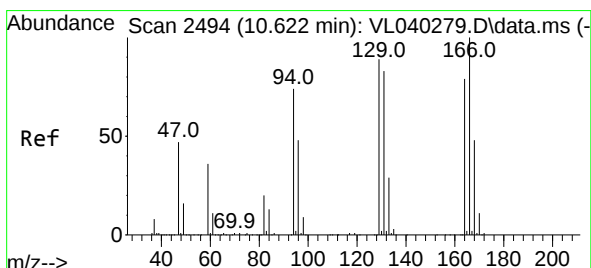
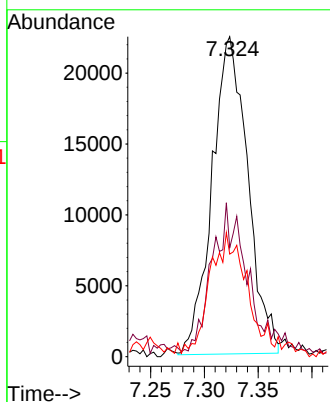
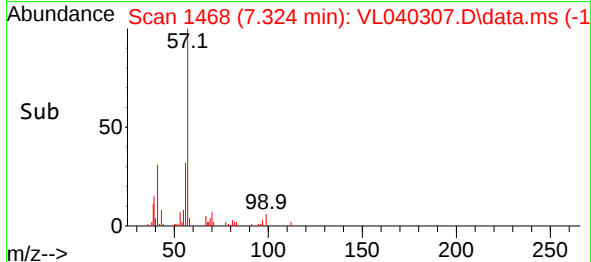
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 57 Resp: 5162
Ion Ratio Lower Upper
57 100
41 49.6 26.8 40.2
56 42.1 25.0 37.6

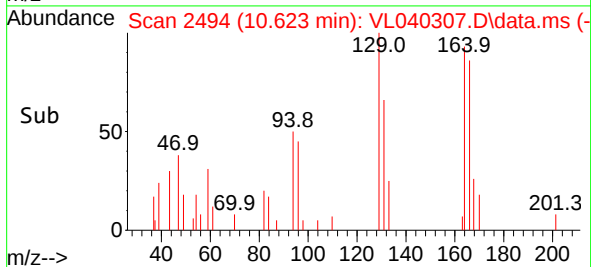
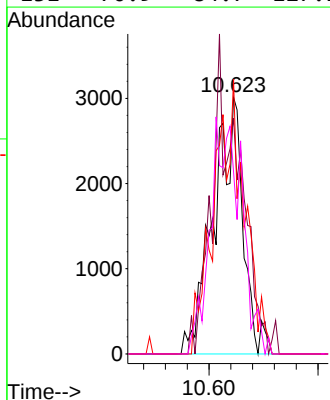
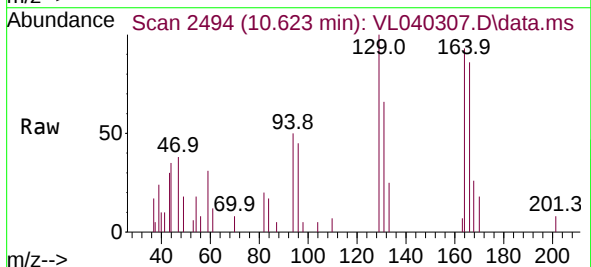
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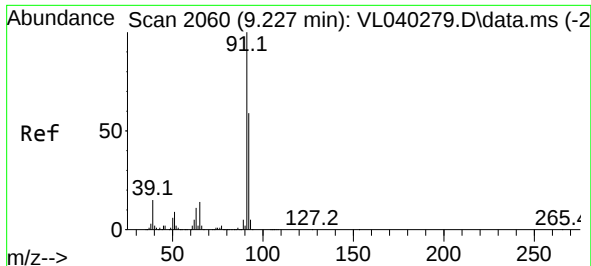
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#52
Tetrachloroethene
Concen: 0.105 ppbv m
RT: 10.623 min Scan# 2494
Delta R.T. 0.001 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

Tgt Ion:164 Resp: 5684
Ion Ratio Lower Upper
164 100
166 91.9 101.8 152.6#
129 107.1 90.2 135.2
131 70.9 84.7 127.1#





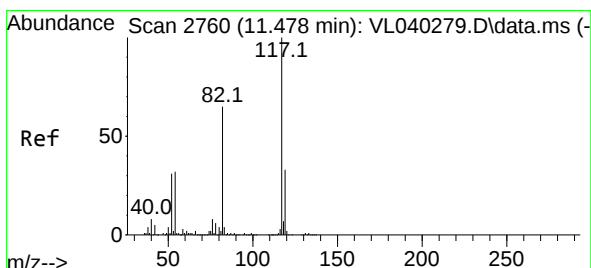
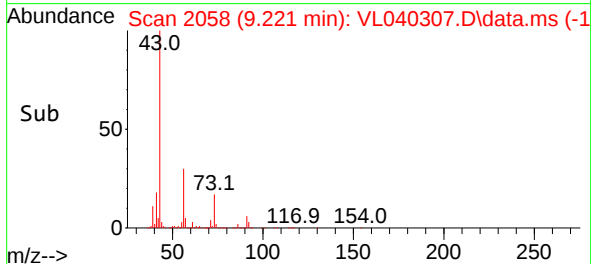
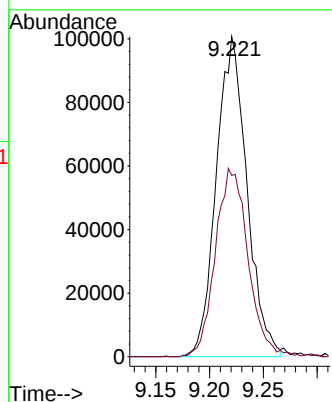
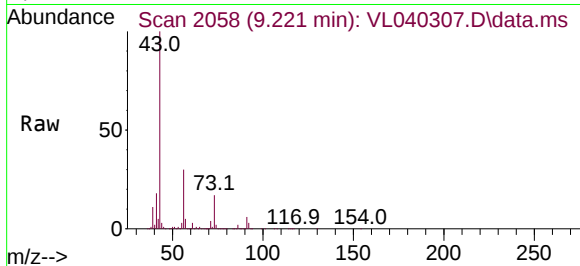
#53
Toluene
Concen: 1.061 ppbv
RT: 9.221 min Scan# 2060
Delta R.T. -0.006 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 199375
Ion Ratio Lower Upper
91 100
92 62.9 48.0 72.0

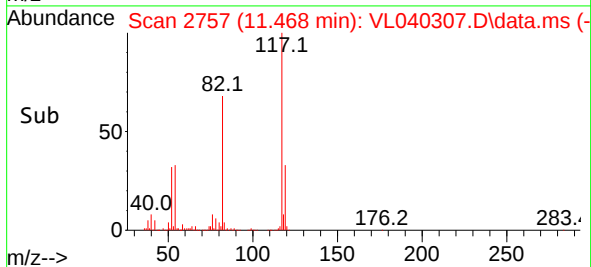
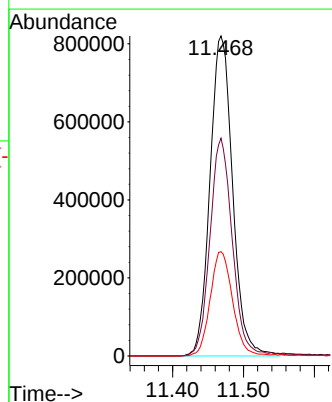
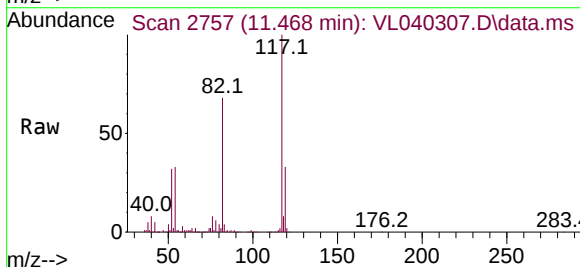
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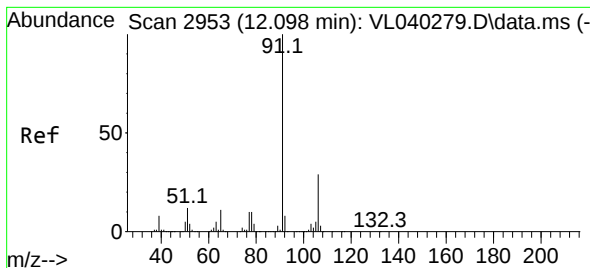
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. -0.010 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

Tgt Ion:117 Resp: 1822897
Ion Ratio Lower Upper
117 100
82 68.0 51.4 77.2
119 32.7 24.0 36.0





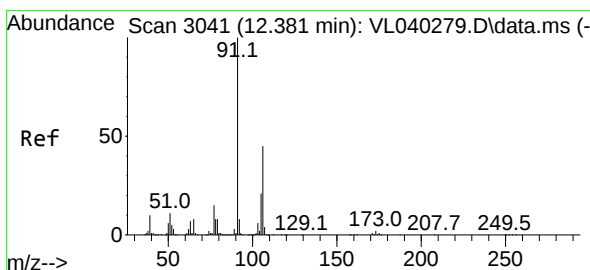
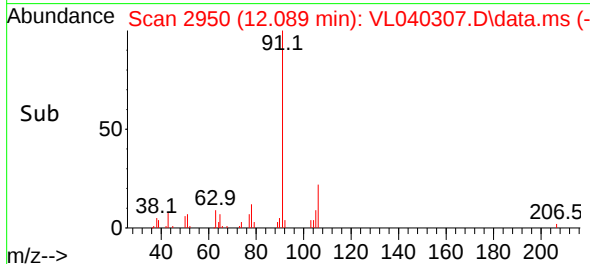
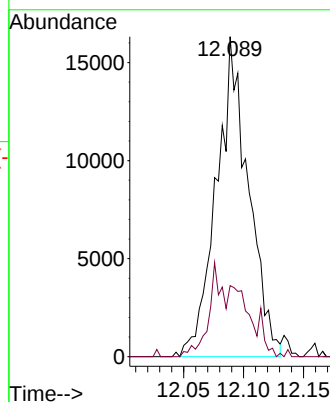
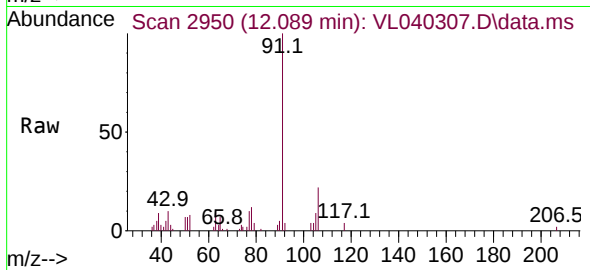
#58
Ethyl Benzene
Concen: 0.146 ppbv
RT: 12.089 min Scan# 2953
Delta R.T. -0.009 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 30224
Ion Ratio Lower Upper
91 100
106 22.2 23.4 35.2

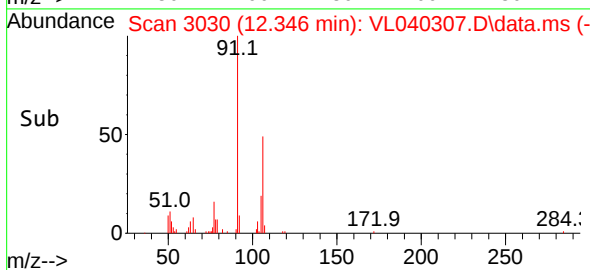
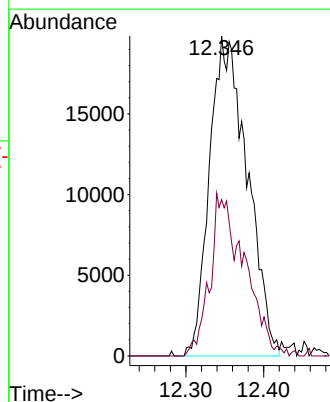
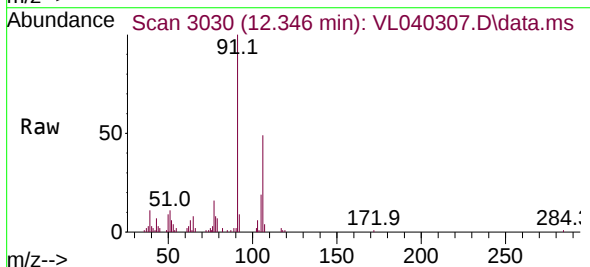
Manual Integrations
APPROVED

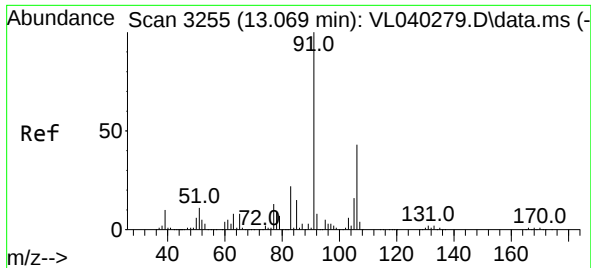
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#59
m/p-Xylene
Concen: 0.352 ppbv m
RT: 12.346 min Scan# 3030
Delta R.T. -0.035 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

Tgt Ion: 91 Resp: 66870
Ion Ratio Lower Upper
91 100
106 0.0 34.0 51.0#





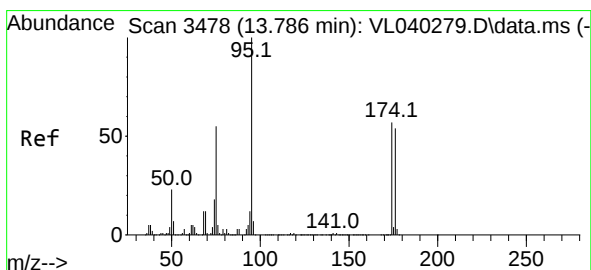
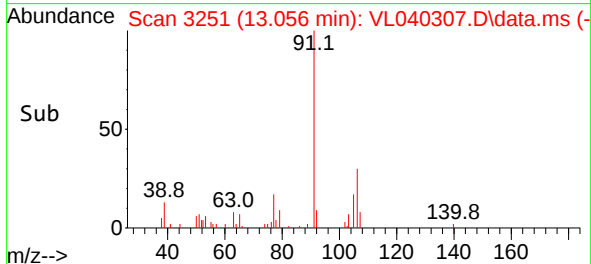
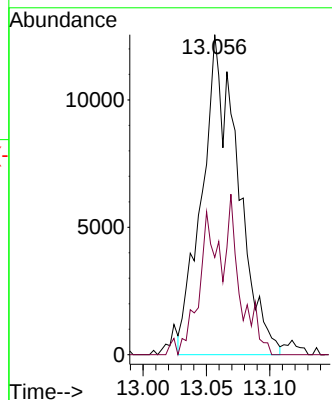
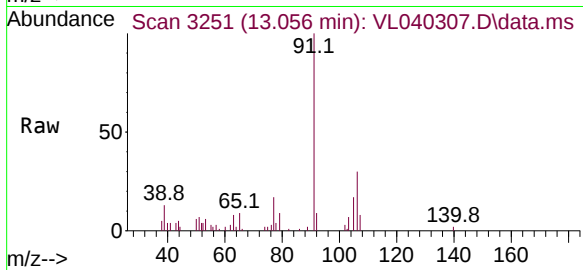
#60
o-Xylene
Concen: 0.137 ppbv m
RT: 13.056 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 2483
Ion Ratio Lower Upper
91 100
106 0.0 21.7 65.1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 10.233 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. -0.009 min
Lab File: VL040307.D
Acq: 4 Apr 2023 16:13

Tgt Ion: 95 Resp: 1562040
Ion Ratio Lower Upper
95 100
174 59.4 47.0 70.6
175 4.2 3.4 5.2

