

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
 Data File : VL040031.D
 Acq On : 19 Dec 2022 16:52
 Operator : SY/MD
 Sample : N6059-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

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

Quant Time: Dec 20 05:13:26 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 12 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	913679	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	2791858	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.446	117	2402009	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1791887	9.766	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.703	85	40506	0.237	ppbv	92
3) Chlorodifluoromethane	2.652	51	34368m	0.255	ppbv	
4) Chloromethane	2.787	50	33718	0.399	ppbv	96
9) Propene	2.681	41	136794m	2.391	ppbv	
10) Heptane	7.558	43	72968m	0.523	ppbv	
11) Trichlorofluoromethane	3.536	101	37246	0.200	ppbv	99
13) Ethanol	3.211	45	1147220	213.063	ppbv	96
15) Acetone	3.443	43	1716730	12.146	ppbv	95
19) Isopropyl Alcohol	3.558	45	389176	5.587	ppbv #	1
20) Methylene Chloride	3.909	84	147575	2.456	ppbv	94
26) Hexane	5.189	57	212073	2.061	ppbv #	54
29) Chloroform	5.250	83	20849m	0.133	ppbv	
30) Cyclohexane	6.584	84	27964m	0.307	ppbv	
34) 2-Butanone	4.767	43	33242m	0.219	ppbv	
35) Carbon Tetrachloride	6.462	117	10315m	0.059	ppbv	
36) Benzene	6.343	78	92065	0.369	ppbv	98
44) 2,2,4-Trimethylpentane	7.308	57	120116	0.293	ppbv #	78
53) Toluene	9.201	91	385840	1.398	ppbv	98
58) Ethyl Benzene	12.073	91	107680	0.316	ppbv	98
59) m/p-Xylene	12.323	91	323404	1.088	ppbv	94
60) o-Xylene	13.037	91	148532m	0.521	ppbv	
64) n-propylbenzene	14.902	120	18151	0.175	ppbv	88
72) 4-Ethyltoluene	15.179	105	99648m	0.315	ppbv	
73) 1,3,5-Trimethylbenzene	15.333	105	93152	0.327	ppbv	93
74) 1,2,4-Trimethylbenzene	16.092	105	318112	1.012	ppbv #	67
79) Naphthalene	21.378	128	24532m	0.131	ppbv	

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

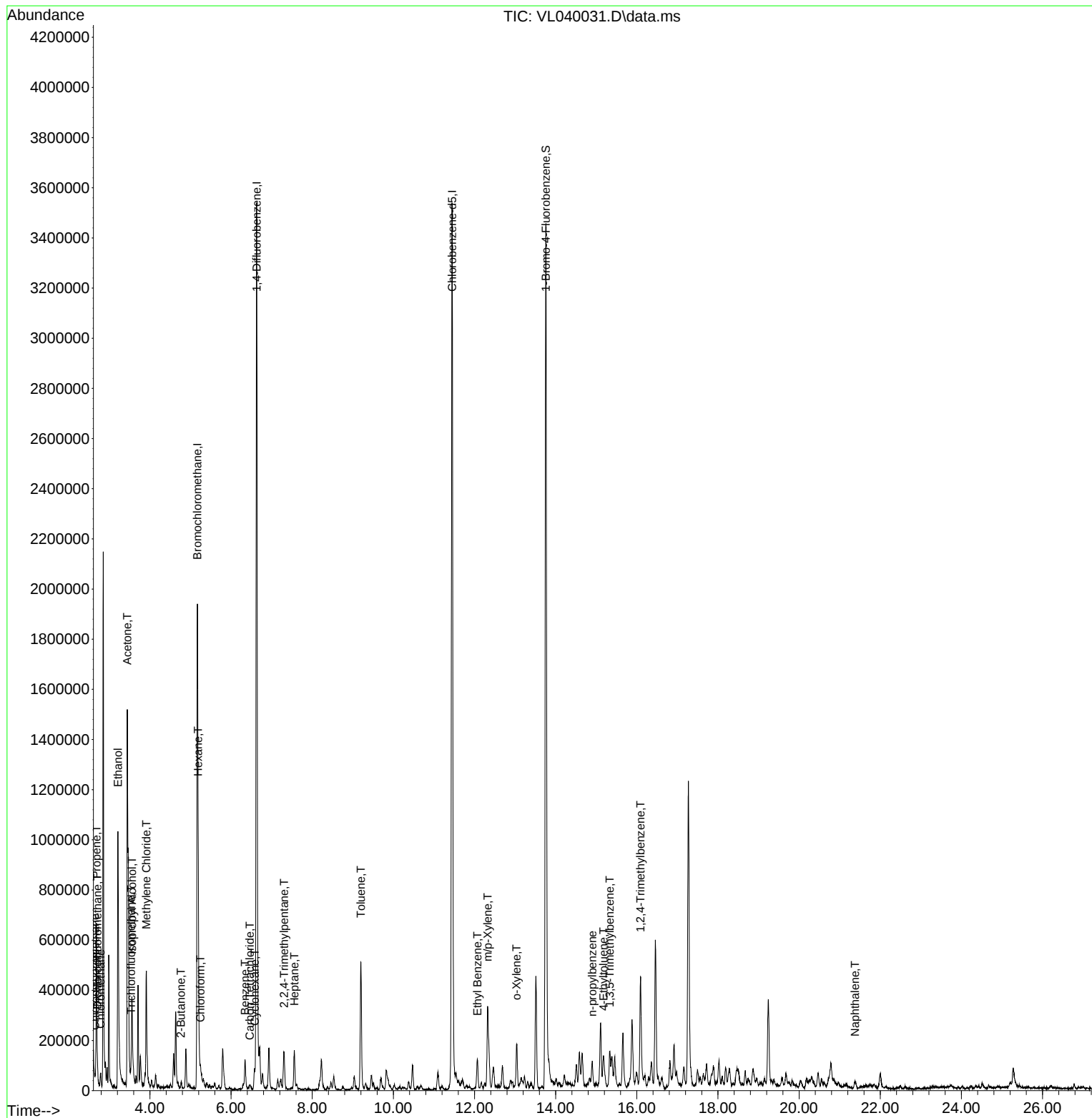
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
Data File : VL040031.D
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ALS Vial : 1 Sample Multiplier: 1

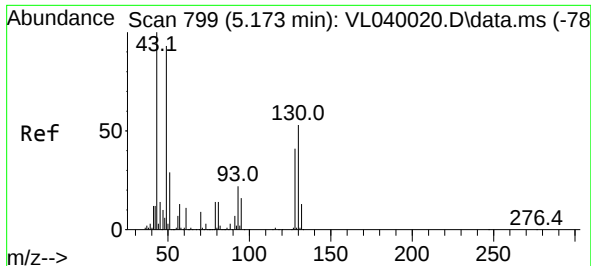
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Dec 20 05:13:26 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

Manual Integrations
APPROVED

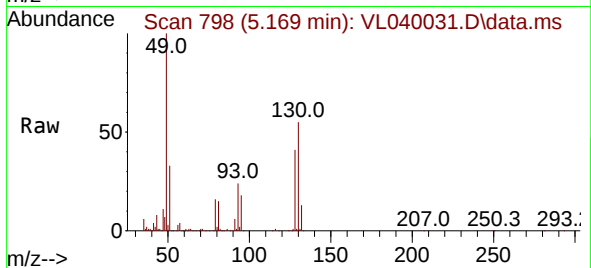
Reviewed By : Semsettin Yesilyurt 12/20/2022
Supervised By : Mahesh Dadoda 12/20/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 79
Delta R.T. -0.004 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

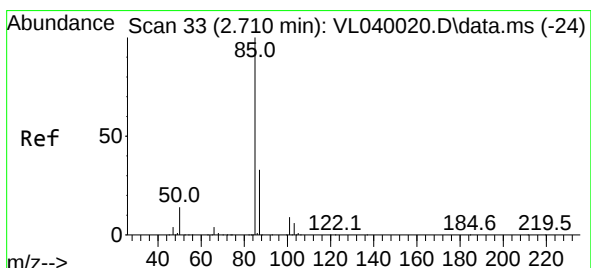
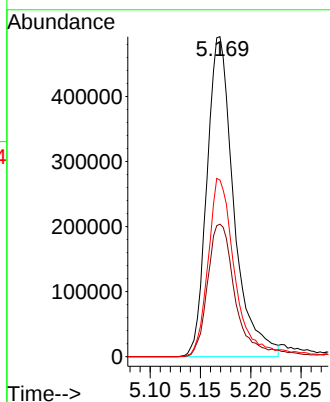
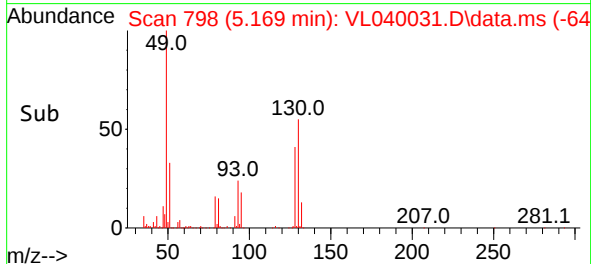
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 913679
Ion Ratio Lower Upper
49 100
128 44.4 22.4 67.3
130 58.1 28.9 86.8

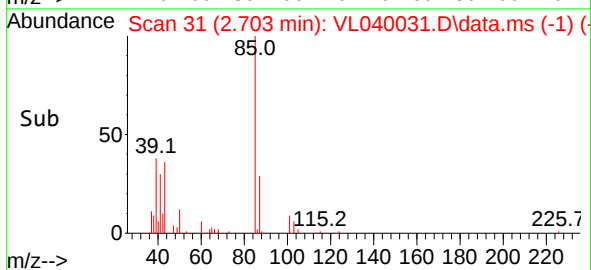
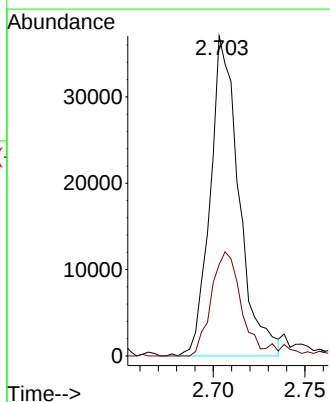
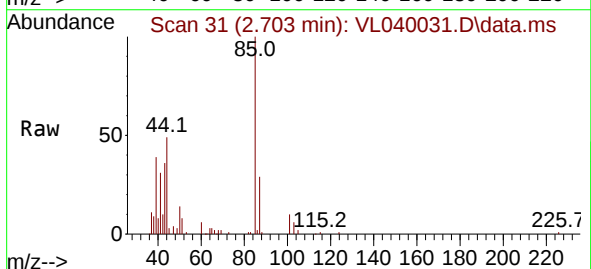
Manual Integrations
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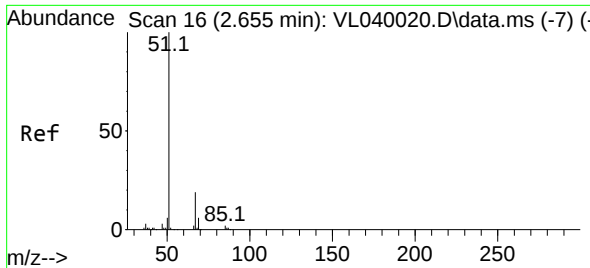
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#2
Dichlorodifluoromethane
Concen: 0.237 ppbv
RT: 2.703 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

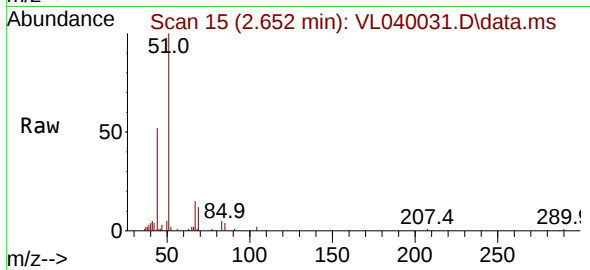
Tgt Ion: 85 Resp: 40506
Ion Ratio Lower Upper
85 100
87 28.5 26.6 40.0





#3
Chlorodifluoromethane
Concen: 0.255 ppbv m
RT: 2.652 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

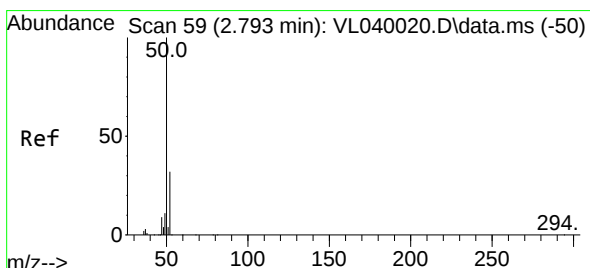
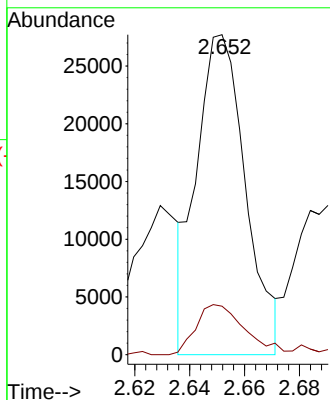
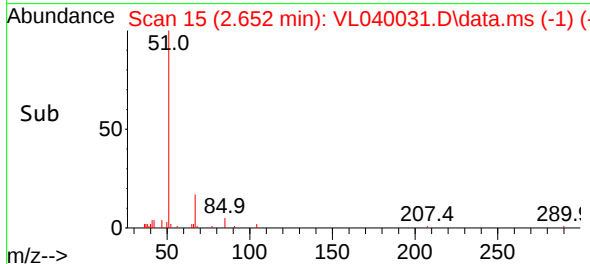
Instrument :
MSVOA_L
ClientSampleId :
IA1



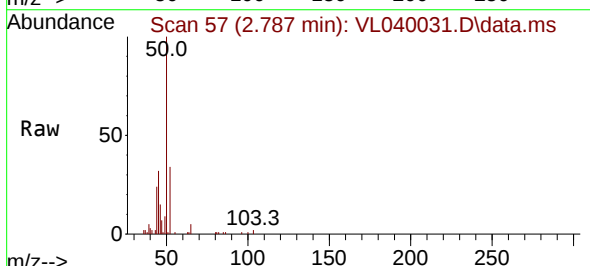
Tgt Ion: 51 Resp: 3436
Ion Ratio Lower Upper
51 100
67 18.1 15.3 22.9

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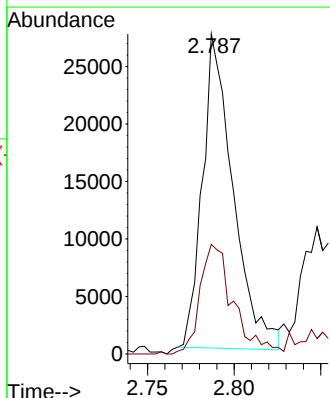
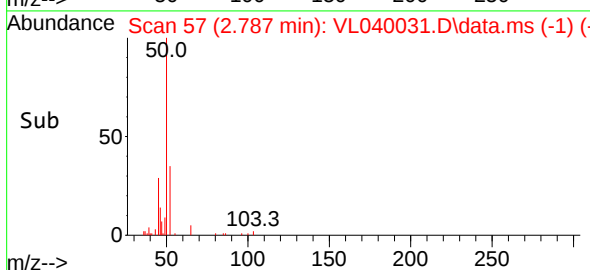
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022

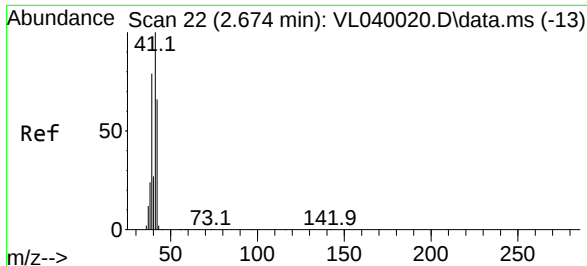


#4
Chloromethane
Concen: 0.399 ppbv
RT: 2.787 min Scan# 57
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52



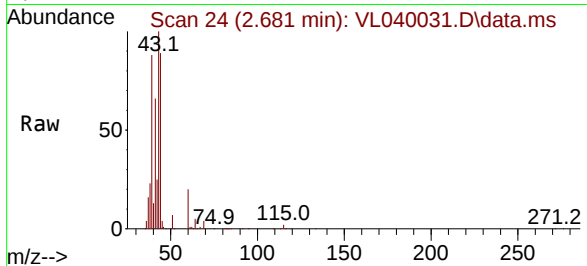
Tgt Ion: 50 Resp: 33718
Ion Ratio Lower Upper
50 100
52 34.3 25.5 38.3





#9
 Propene
 Concen: 2.391 ppbv m
 RT: 2.681 min Scan# 24
 Delta R.T. 0.006 min
 Lab File: VL040031.D
 Acq: 19 Dec 2022 16:52

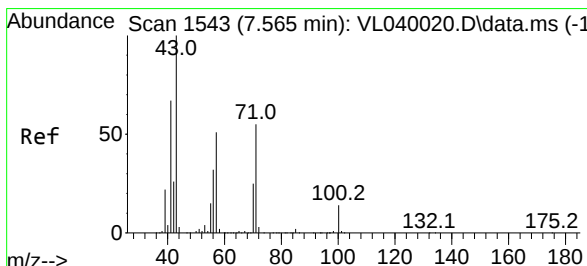
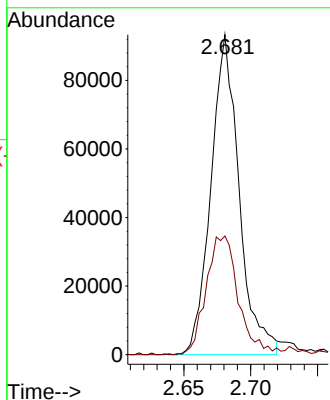
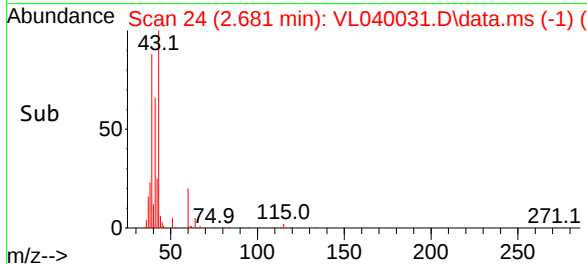
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 41 Resp: 136794
 Ion Ratio Lower Upper
 41 100
 42 287.7 54.8 82.2

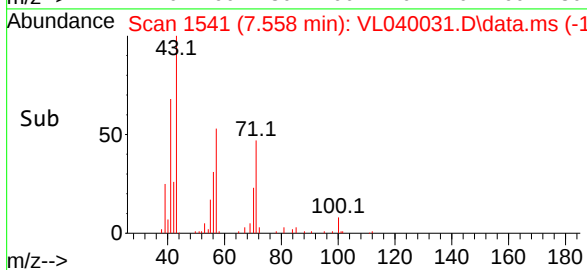
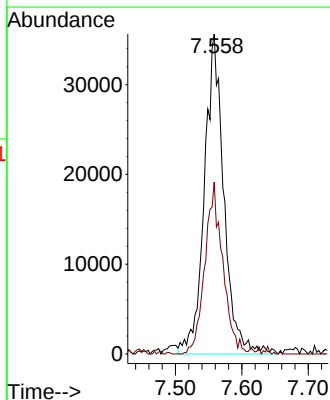
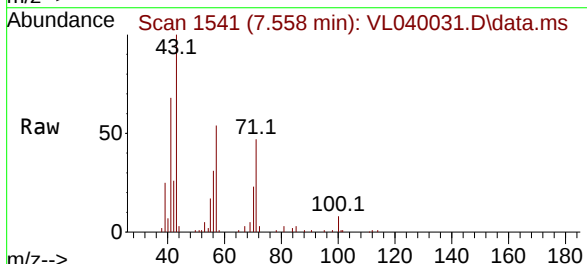
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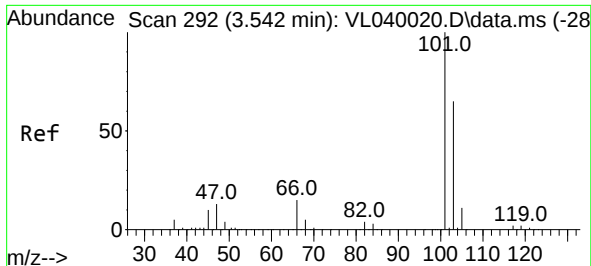
Reviewed By :Semsettin Yesilyurt 12/20/2022
 Supervised By :Mahesh Dadoda 12/20/2022



#10
 Heptane
 Concen: 0.523 ppbv m
 RT: 7.558 min Scan# 1541
 Delta R.T. -0.006 min
 Lab File: VL040031.D
 Acq: 19 Dec 2022 16:52

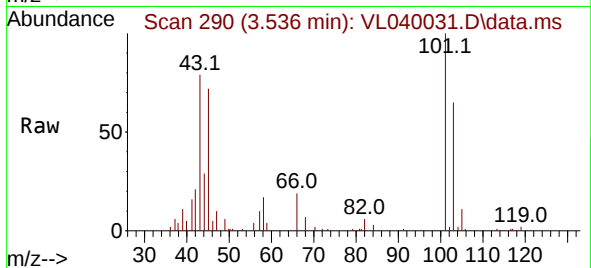
Tgt Ion: 43 Resp: 72968
 Ion Ratio Lower Upper
 43 100
 57 49.7 41.2 61.8





#11
Trichlorofluoromethane
Concen: 0.200 ppbv
RT: 3.536 min Scan# 292
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

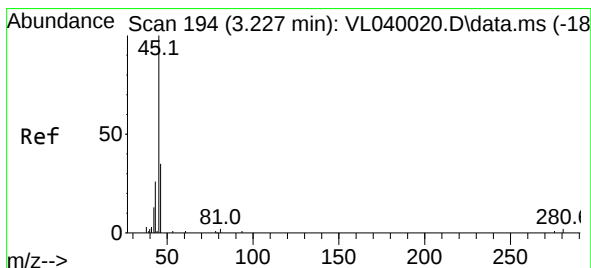
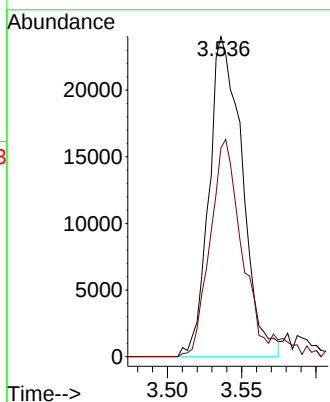
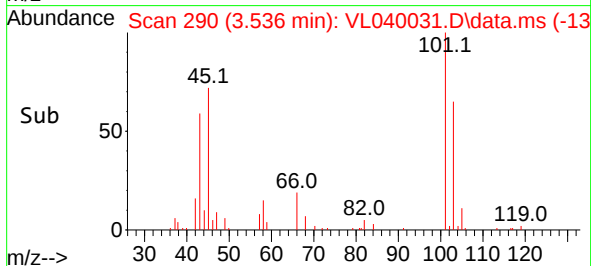
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:101 Resp: 37240
Ion Ratio Lower Upper
101 100
103 65.3 51.7 77.5

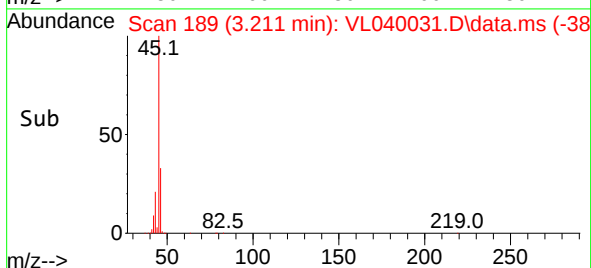
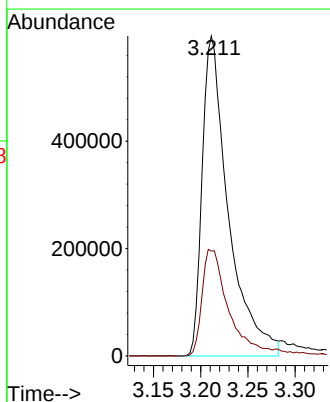
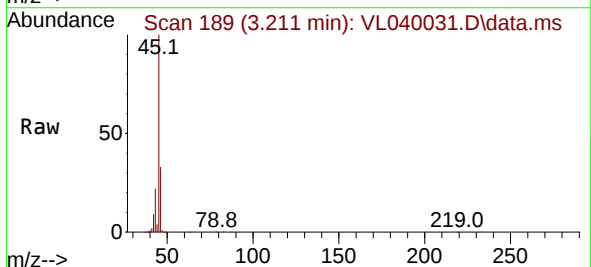
Manual Integrations
APPROVED

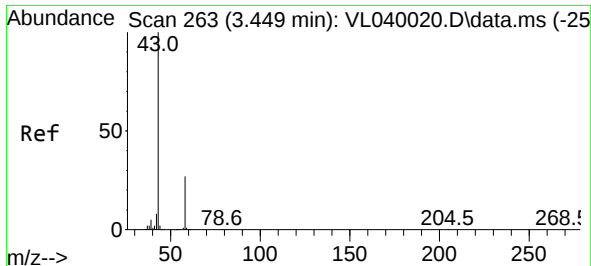
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#13
Ethanol
Concen: 213.063 ppbv
RT: 3.211 min Scan# 189
Delta R.T. -0.016 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

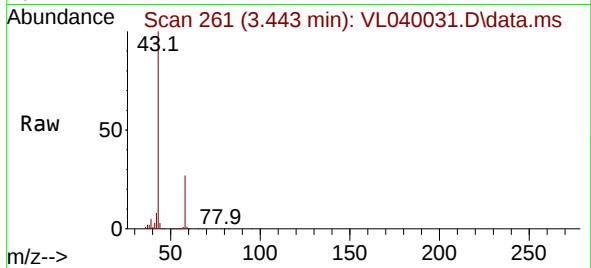
Tgt Ion: 45 Resp: 1147220
Ion Ratio Lower Upper
45 100
46 36.4 13.7 54.7





#15
Acetone
Concen: 12.146 ppbv
RT: 3.443 min Scan# 20
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

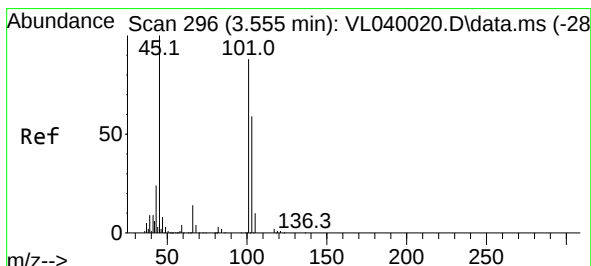
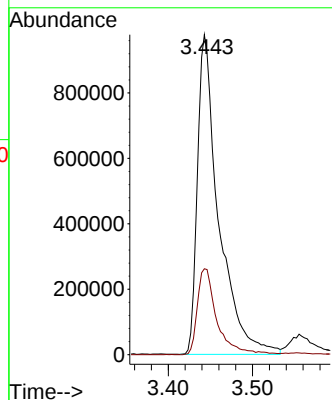
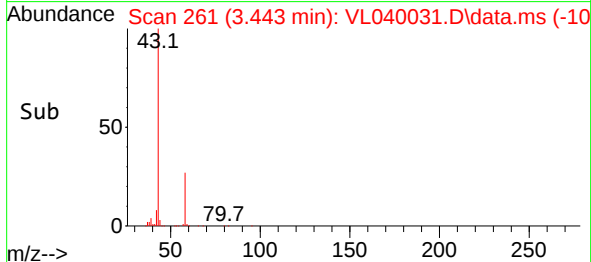
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 1716730
Ion Ratio Lower Upper
43 100
58 24.8 21.8 32.8

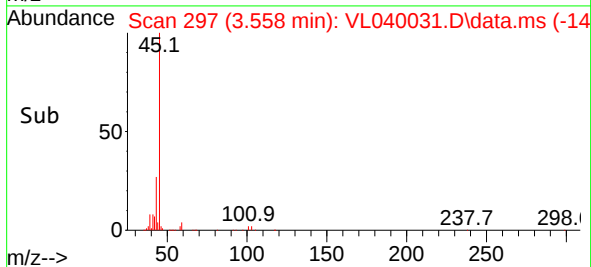
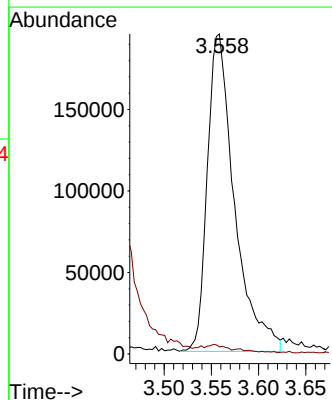
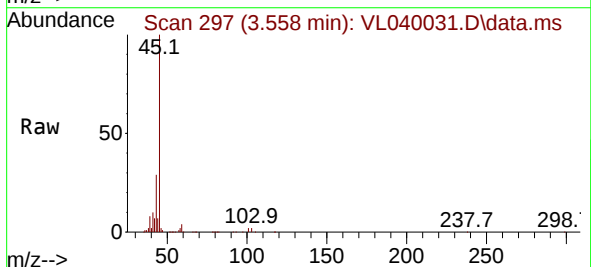
Manual Integrations
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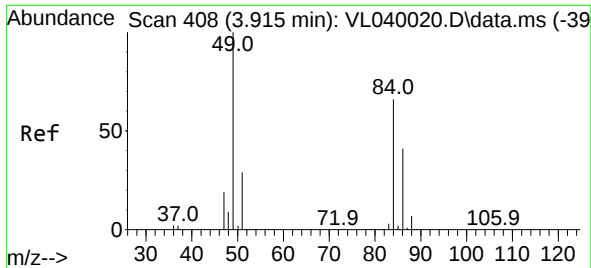
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#19
Isopropyl Alcohol
Concen: 5.587 ppbv
RT: 3.558 min Scan# 297
Delta R.T. 0.003 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

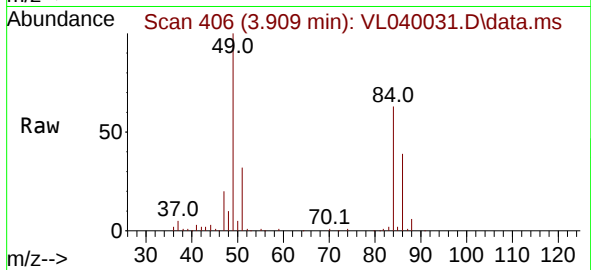
Tgt Ion: 45 Resp: 389176
Ion Ratio Lower Upper
45 100
58 109.5 1.7 2.5#





#20
Methylene Chloride
Concen: 2.456 ppbv
RT: 3.909 min Scan# 408
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

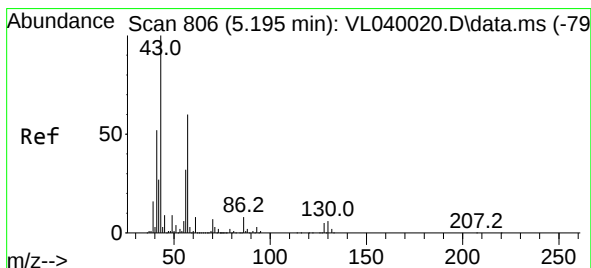
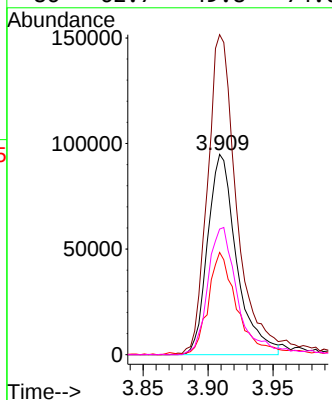
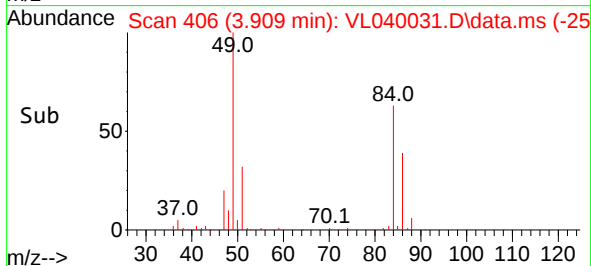
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 14757
Ion Ratio Lower Upper
84 100
49 159.0 120.5 180.7
51 50.7 35.2 52.8
86 62.7 49.8 74.6

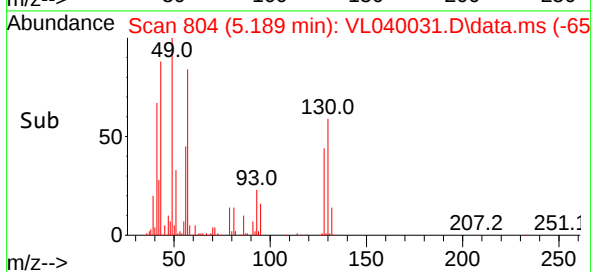
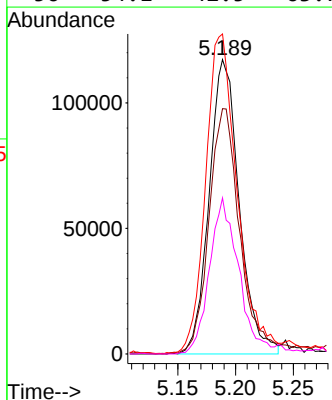
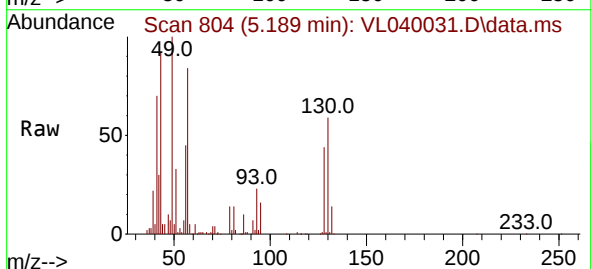
Manual Integrations
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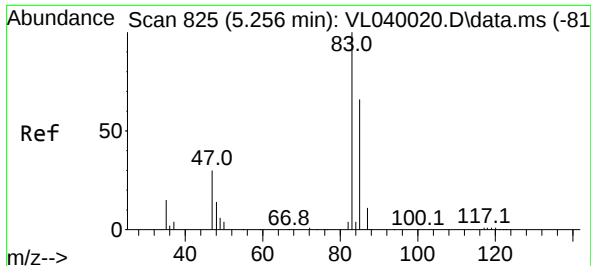
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#26
Hexane
Concen: 2.061 ppbv
RT: 5.189 min Scan# 804
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Tgt Ion: 57 Resp: 212073
Ion Ratio Lower Upper
57 100
41 85.8 72.1 108.1
43 118.2 192.1 288.1#
56 54.1 42.5 63.7





#29

Chloroform

Concen: 0.133 ppbv m

RT: 5.250 min Scan# 81

Delta R.T. -0.006 min

Lab File: VL040031.D

Acq: 19 Dec 2022 16:52

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 83 Resp: 20849

Ion Ratio Lower Upper

83 100

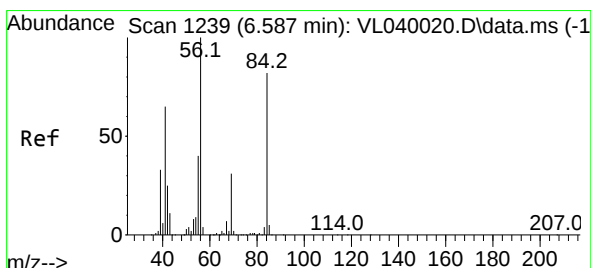
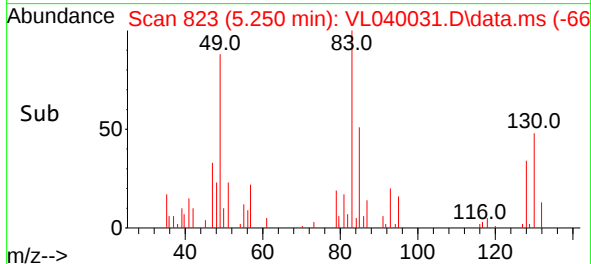
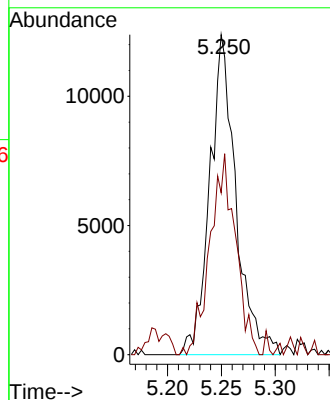
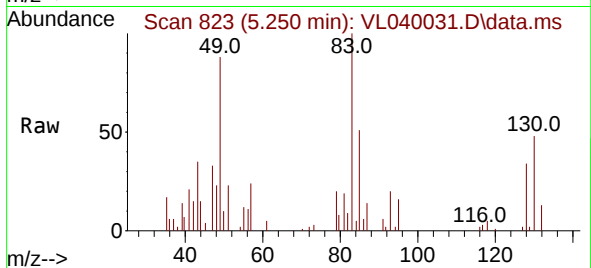
85 50.6 52.4 78.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2022

Supervised By :Mahesh Dadoda 12/20/2022



#30

Cyclohexane

Concen: 0.307 ppbv m

RT: 6.584 min Scan# 1238

Delta R.T. -0.003 min

Lab File: VL040031.D

Acq: 19 Dec 2022 16:52

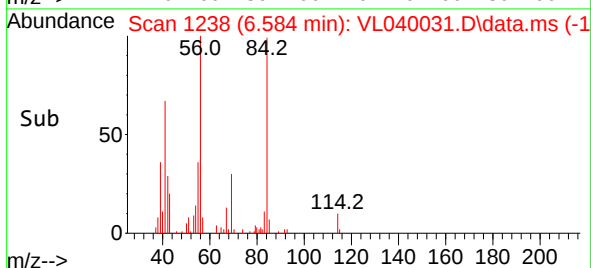
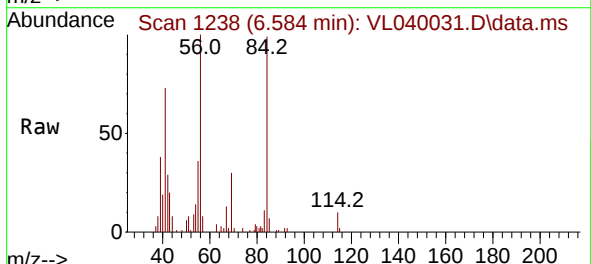
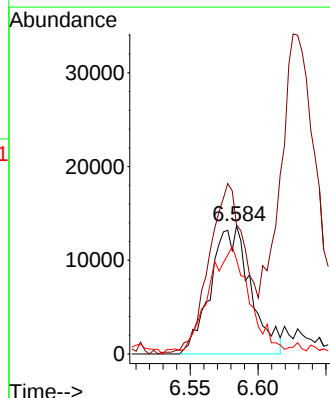
Tgt Ion: 84 Resp: 27964

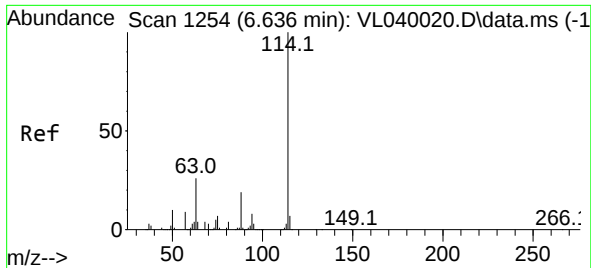
Ion Ratio Lower Upper

84 100

56 0.0 110.2 165.4#

41 79.3 67.8 101.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 114

Delta R.T. -0.003 min

Lab File: VL040031.D

Acq: 19 Dec 2022 16:52

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 279185

Ion Ratio Lower Upper

114 100

63 24.6 20.2 30.2

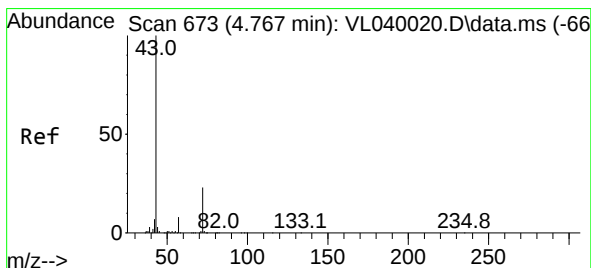
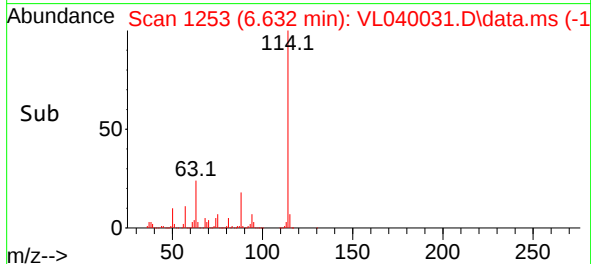
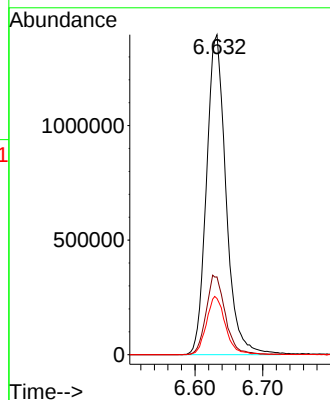
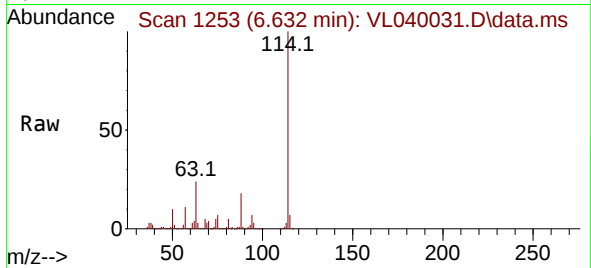
88 17.9 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2022

Supervised By :Mahesh Dadoda 12/20/2022



#34

2-Butanone

Concen: 0.219 ppbv m

RT: 4.767 min Scan# 673

Delta R.T. 0.000 min

Lab File: VL040031.D

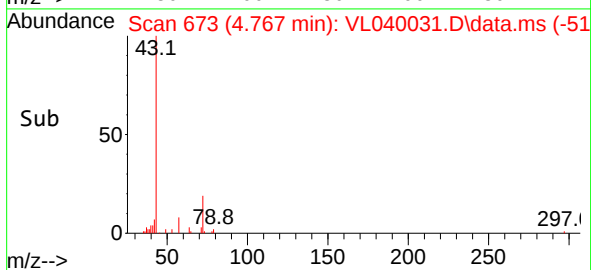
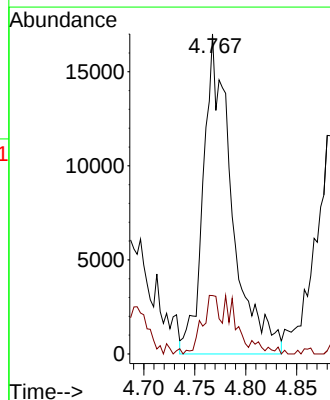
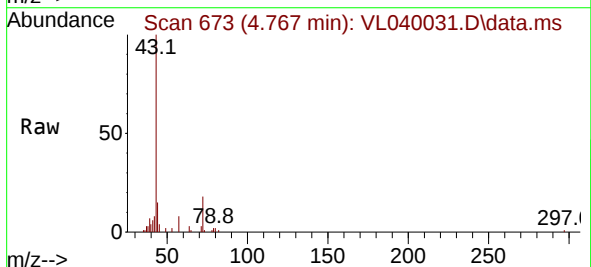
Acq: 19 Dec 2022 16:52

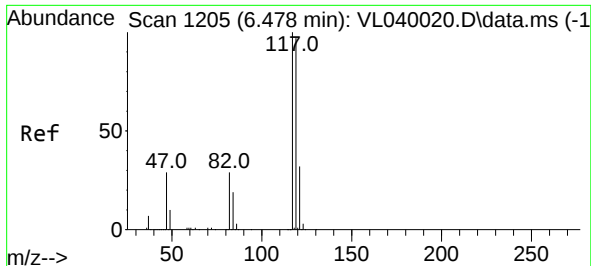
Tgt Ion: 43 Resp: 33242

Ion Ratio Lower Upper

43 100

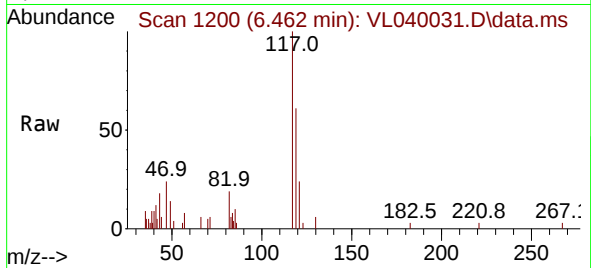
72 20.4 18.0 27.0





#35
Carbon Tetrachloride
Concen: 0.059 ppbv m
RT: 6.462 min Scan# 117
Delta R.T. -0.016 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

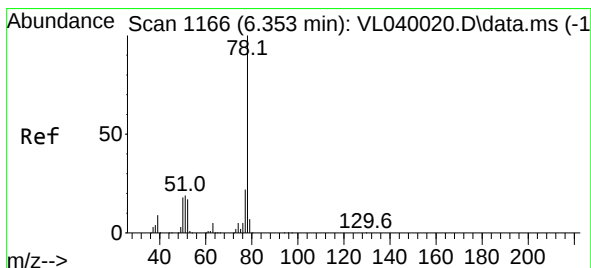
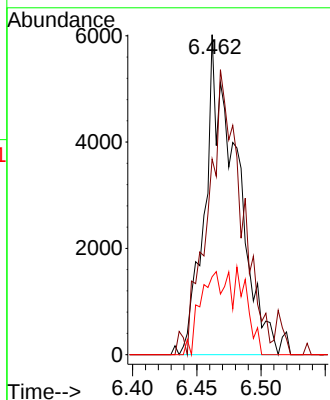
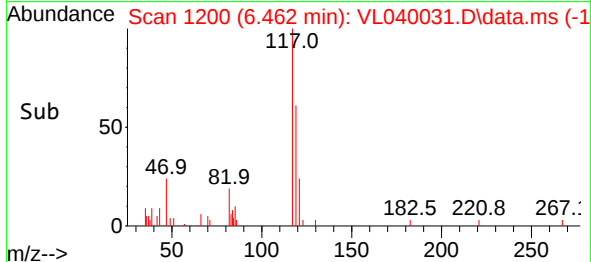
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 117 Resp: 1031
Ion Ratio Lower Upper
117 100
119 61.2 77.3 115.9
121 24.3 25.4 38.0

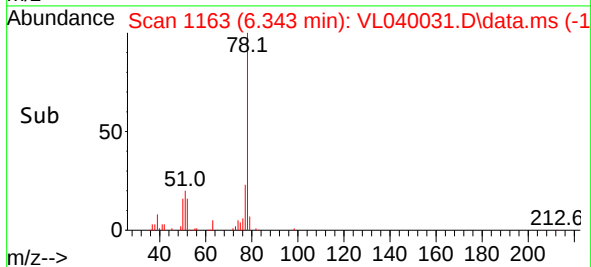
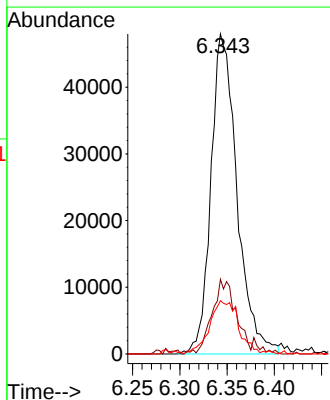
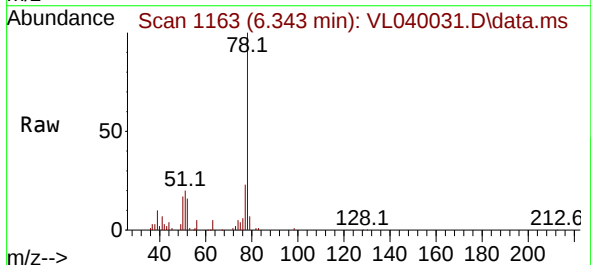
Manual Integrations
APPROVED

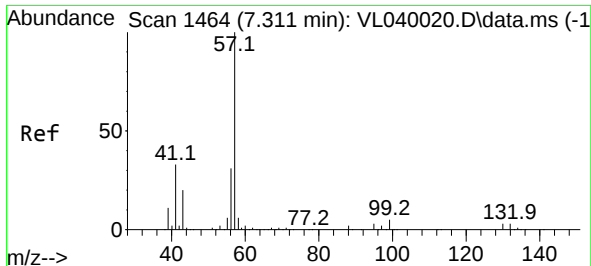
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#36
Benzene
Concen: 0.369 ppbv
RT: 6.343 min Scan# 1163
Delta R.T. -0.010 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Tgt Ion: 78 Resp: 92065
Ion Ratio Lower Upper
78 100
77 22.9 17.5 26.3
50 16.7 14.2 21.2





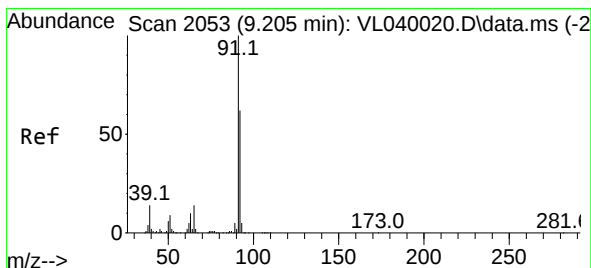
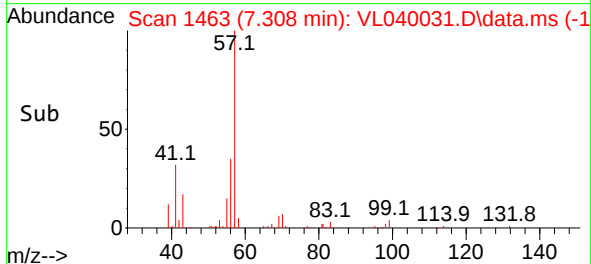
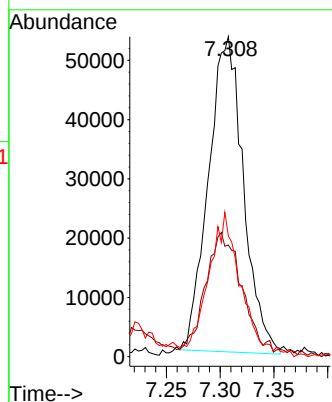
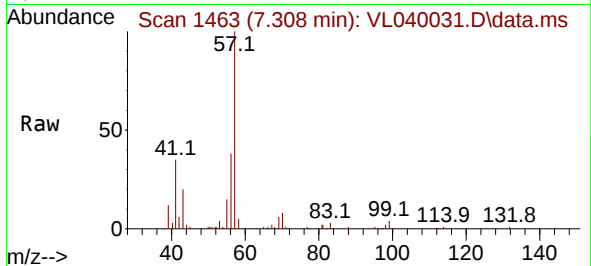
#44
2,2,4-Trimethylpentane
Concen: 0.293 ppbv
RT: 7.308 min Scan# 1463
Delta R.T. -0.003 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 57 Resp: 120110
Ion Ratio Lower Upper
57 100
41 44.0 26.2 39.4
56 44.8 25.1 37.7

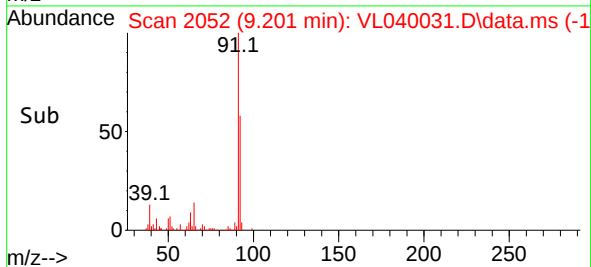
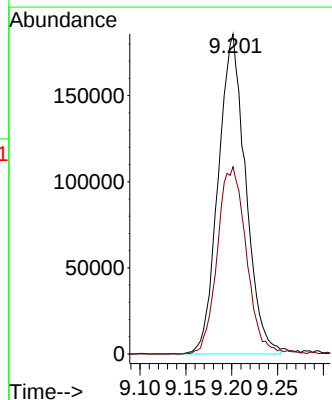
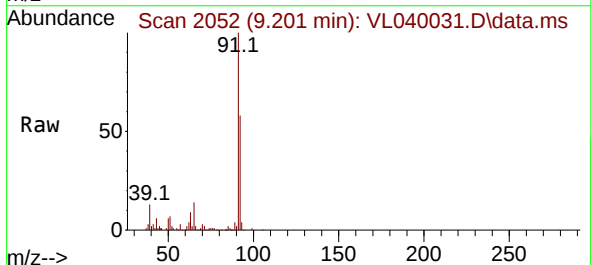
Manual Integrations
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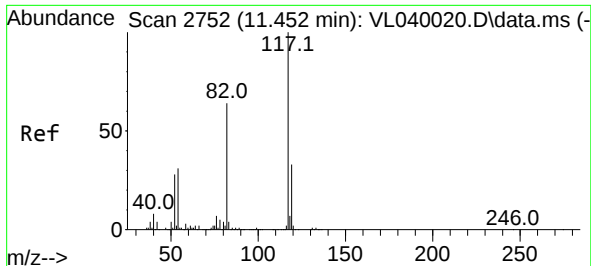
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#53
Toluene
Concen: 1.398 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. -0.003 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

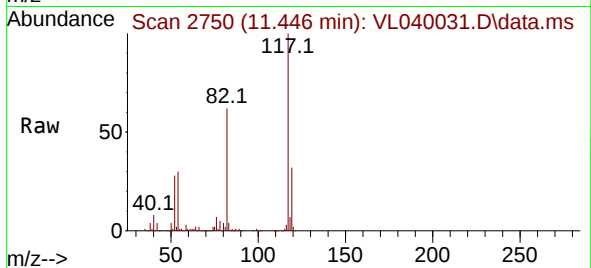
Tgt Ion: 91 Resp: 385840
Ion Ratio Lower Upper
91 100
92 62.3 48.7 73.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

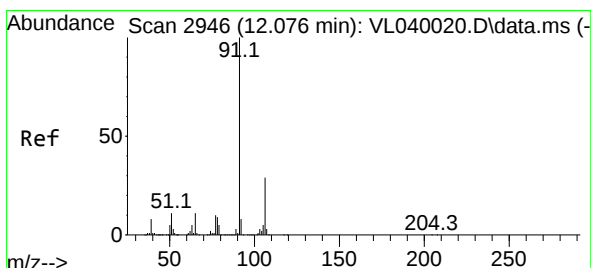
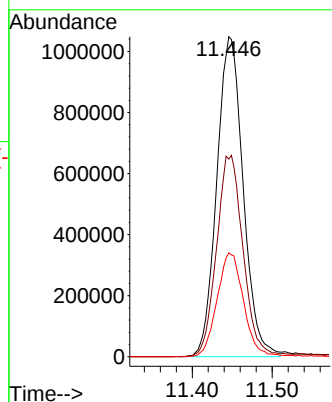
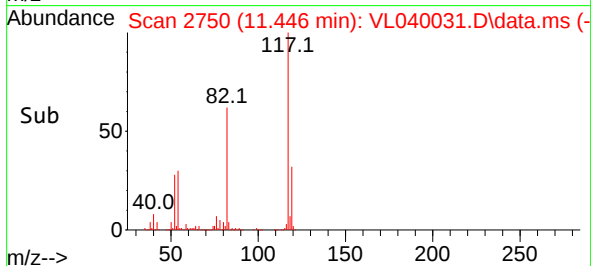
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:117 Resp: 2402009
Ion Ratio Lower Upper
117 100
82 63.4 51.2 76.8
119 32.9 23.2 34.8

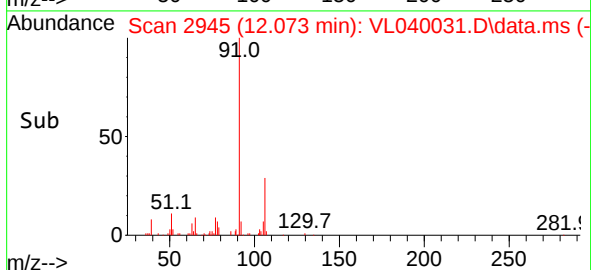
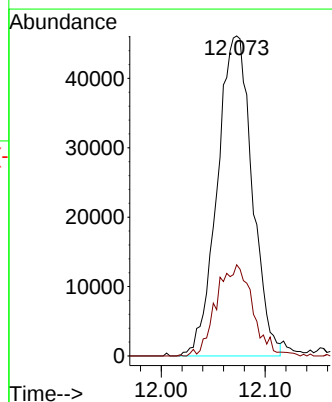
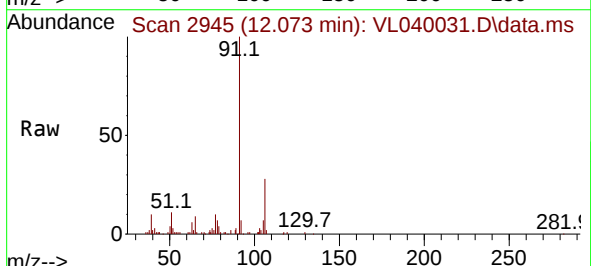
Manual Integrations
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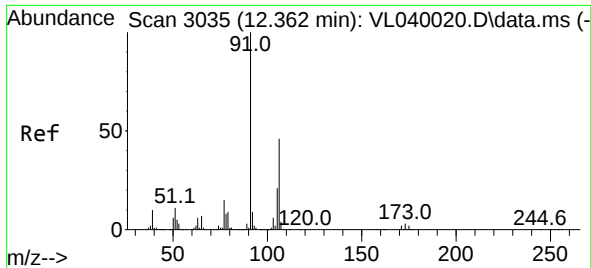
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#58
Ethyl Benzene
Concen: 0.316 ppbv
RT: 12.073 min Scan# 2945
Delta R.T. -0.003 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Tgt Ion: 91 Resp: 107680
Ion Ratio Lower Upper
91 100
106 28.2 23.5 35.3





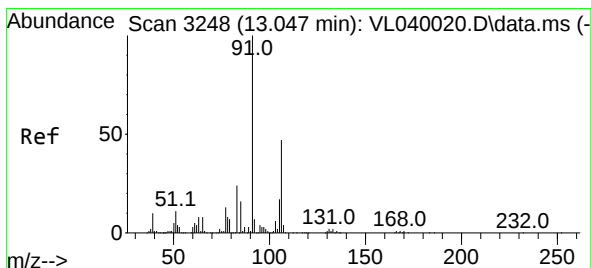
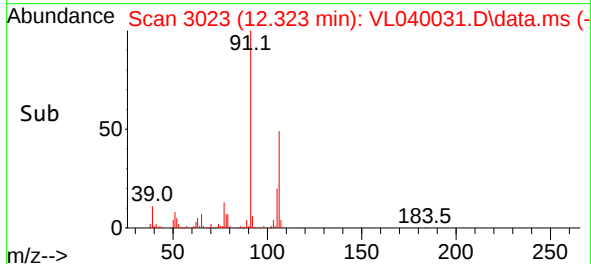
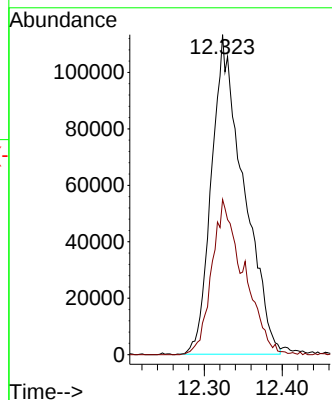
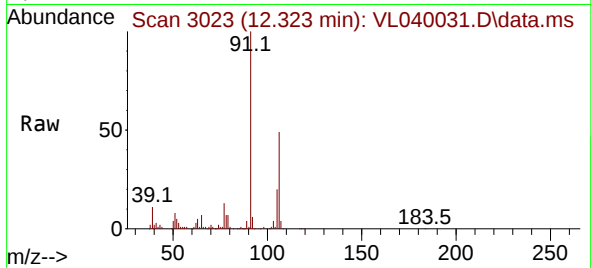
#59
m/p-Xylene
Concen: 1.088 ppbv
RT: 12.323 min Scan# 3035
Delta R.T. -0.039 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 32340
Ion Ratio Lower Upper
91 100
106 48.5 35.5 53.3

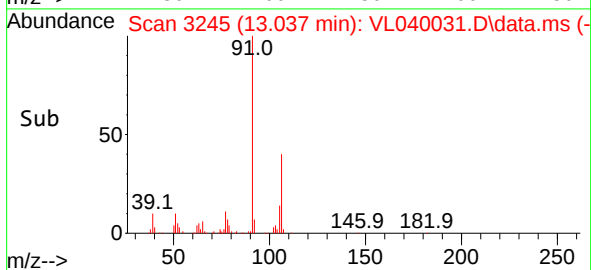
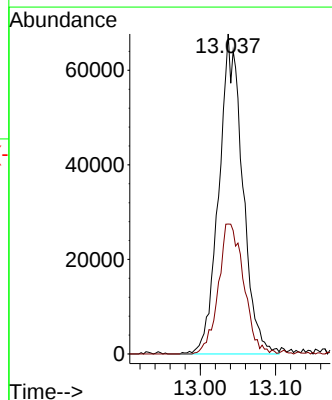
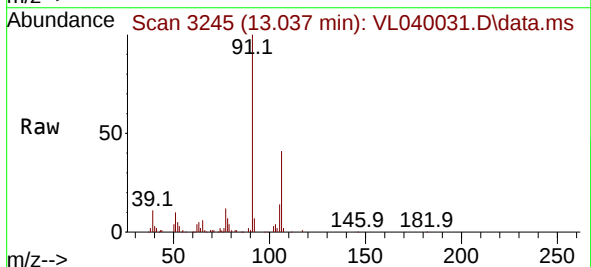
Manual Integrations
APPROVED

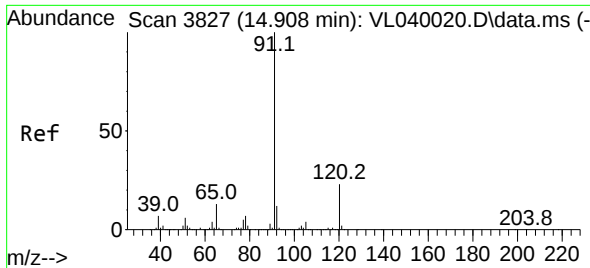
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#60
o-Xylene
Concen: 0.521 ppbv m
RT: 13.037 min Scan# 3245
Delta R.T. -0.010 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Tgt Ion: 91 Resp: 148532
Ion Ratio Lower Upper
91 100
106 43.8 22.4 67.0





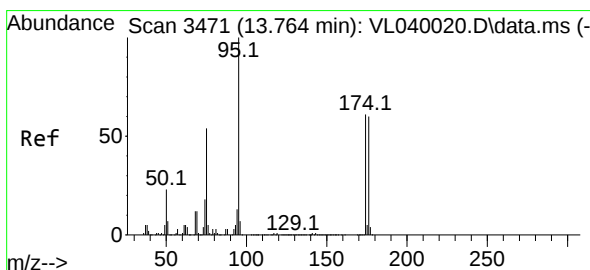
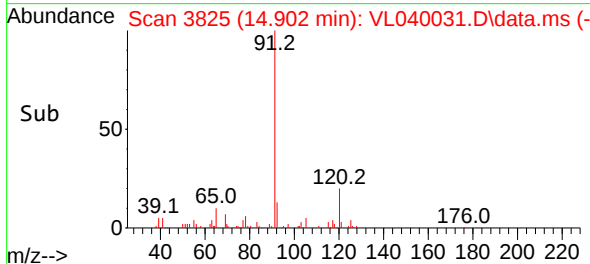
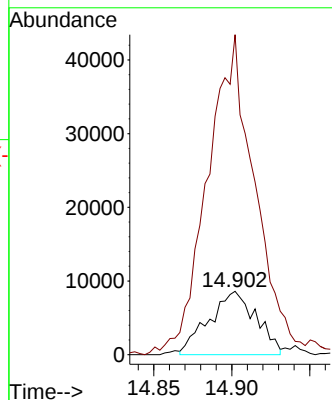
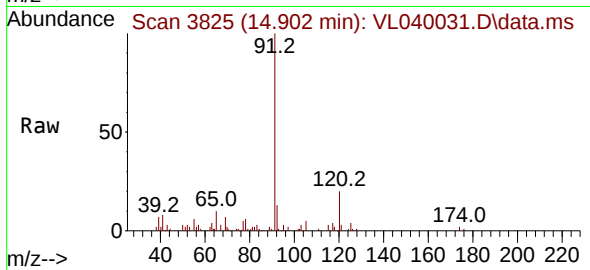
#64
n-propylbenzene
Concen: 0.175 ppbv
RT: 14.902 min Scan# 3825
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 120 Resp: 1815
Ion Ratio Lower Upper
120 100
91 512.8 384.3 576.5

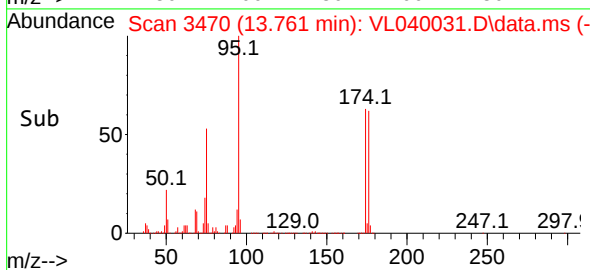
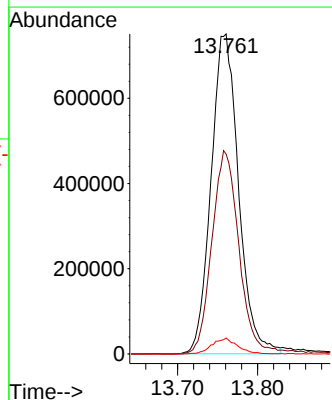
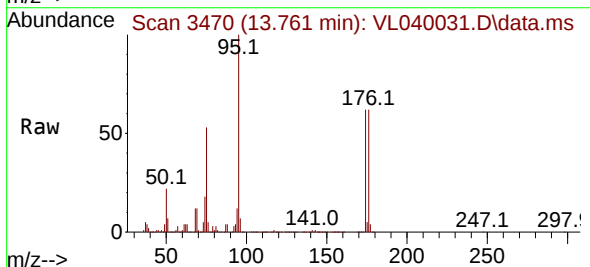
Manual Integrations
APPROVED

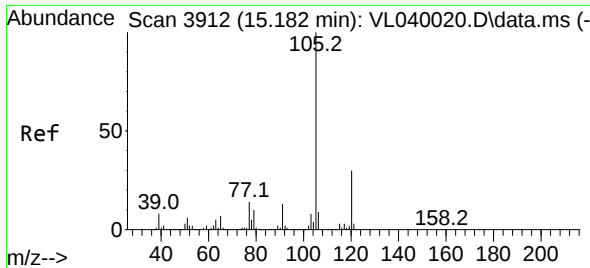
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 9.766 ppbv
RT: 13.761 min Scan# 3470
Delta R.T. -0.003 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Tgt Ion: 95 Resp: 1791887
Ion Ratio Lower Upper
95 100
174 64.0 48.6 73.0
175 4.6 3.4 5.2





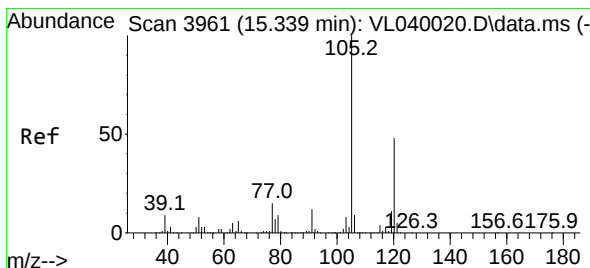
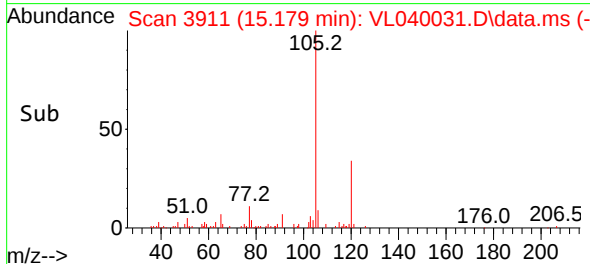
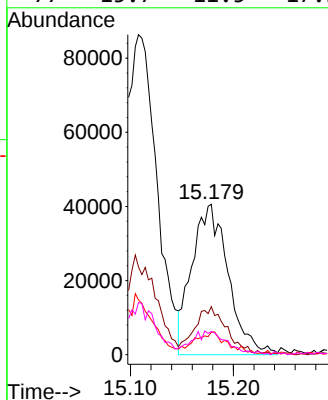
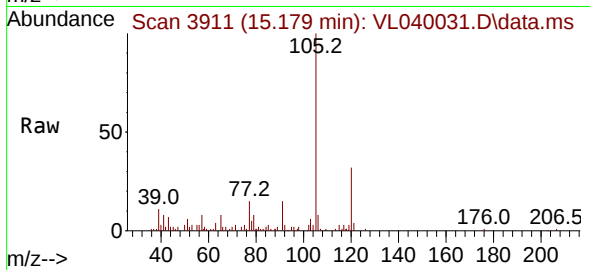
#72
4-Ethyltoluene
Concen: 0.315 ppbv m
RT: 15.179 min Scan# 3911
Delta R.T. -0.003 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:105 Resp: 9964
Ion Ratio Lower Upper
105 100
120 0.0 23.5 35.3
91 0.0 10.5 15.7
77 15.7 11.5 17.3

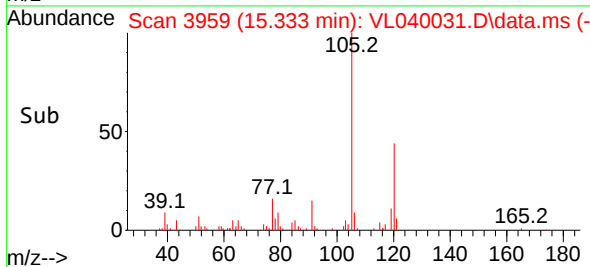
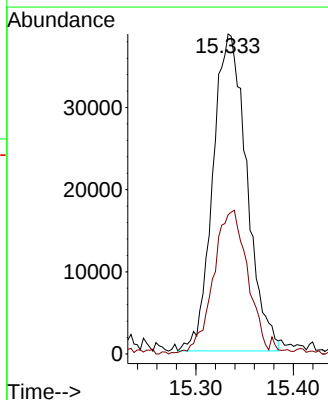
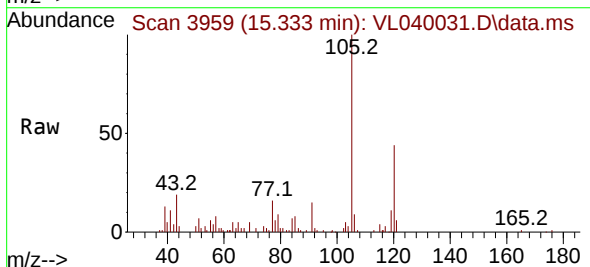
Manual Integrations
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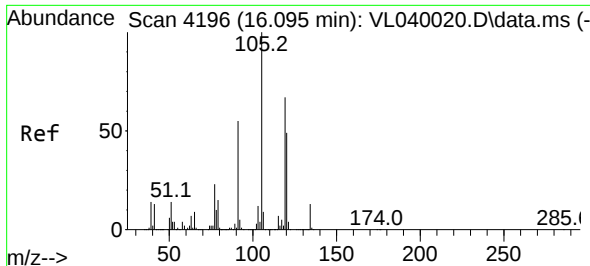
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#73
1,3,5-Trimethylbenzene
Concen: 0.327 ppbv
RT: 15.333 min Scan# 3959
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

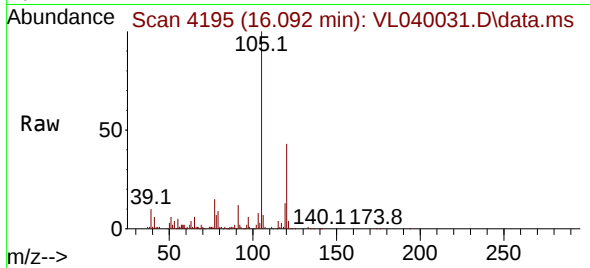
Tgt Ion:105 Resp: 93152
Ion Ratio Lower Upper
105 100
120 43.4 38.4 57.6





#74
1,2,4-Trimethylbenzene
Concen: 1.012 ppbv
RT: 16.092 min Scan# 4196
Delta R.T. -0.003 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

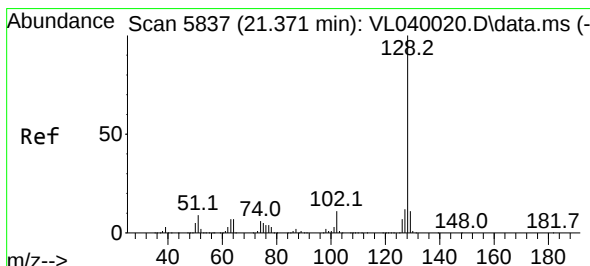
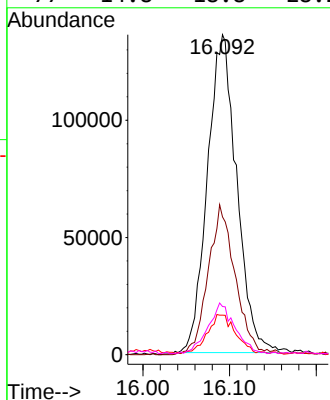
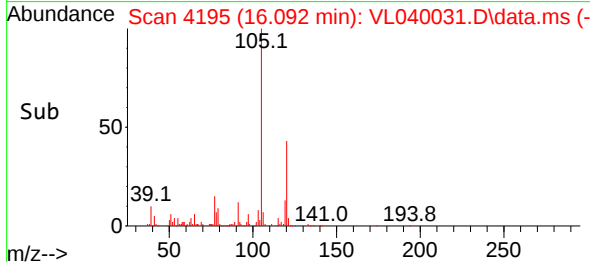
Instrument :
MSVOA_L
ClientSampleId :
IA1



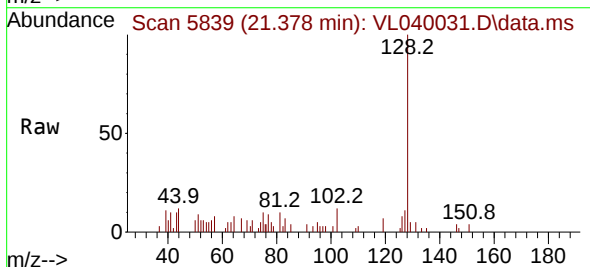
Tgt Ion:105 Resp: 31811
Ion Ratio Lower Upper
105 100
120 42.8 39.3 58.9
91 12.0 44.2 66.4
77 14.8 18.8 28.2#

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



#79
Naphthalene
Concen: 0.131 ppbv m
RT: 21.378 min Scan# 5839
Delta R.T. 0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52



Tgt Ion:128 Resp: 24532
Ion Ratio Lower Upper
128 100
127 10.7 10.0 15.0
129 4.6 8.8 13.2#

