

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040935.D
 Acq On : 21 Dec 2023 18:31
 Operator : SY/MD
 Sample : 05925-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023
 Supervised By :Mahesh Dadoda 12/26/2023

Quant Time: Dec 22 00:09:43 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M

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

QLast Update : Thu Dec 21 07:32:42 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	1174797	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.639	114	2864828	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.436	117	2470314	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.744 95 1864903 10.249 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.751	85	119449	0.534	ppbv	99
3) Chlorodifluoromethane	2.697	51	85511	0.484	ppbv #	80
4) Chloromethane	2.835	50	36010	0.552	ppbv	99
9) Propene	2.716	41	392478	6.728	ppbv	88
10) Heptane	7.561	43	435272	3.002	ppbv	99
11) Trichlorofluoromethane	3.571	101	38480	0.220	ppbv	94
13) Ethanol	3.256	45	951521	64.660	ppbv	95
15) Acetone	3.475	43	15398989	109.292	ppbv #	79
19) Isopropyl Alcohol	3.594	45	133739	1.819	ppbv #	95
20) Methylene Chloride	3.944	84	771450	15.360	ppbv	93
25) Ethyl Acetate	5.211	43	1329836	5.447	ppbv #	86
26) Hexane	5.211	57	1849367	17.092	ppbv #	40
30) Cyclohexane	6.587	84	107459	1.191	ppbv	94
34) 2-Butanone	4.793	43	62804	0.414	ppbv	95
35) Carbon Tetrachloride	6.487	117	11445m	0.064	ppbv	
36) Benzene	6.359	78	648045	2.894	ppbv	96
44) 2,2,4-Trimethylpentane	7.311	57	2859857	7.518	ppbv	96
50) 4-Methyl-2-Pentanone	8.179	43	77204m	0.336	ppbv	
53) Toluene	9.198	91	2497247	10.056	ppbv	100
58) Ethyl Benzene	12.056	91	514576m	1.622	ppbv	
59) m/p-Xylene	12.317	91	1318809	4.887	ppbv #	100
60) o-Xylene	13.024	91	517314	2.034	ppbv	98
61) Styrene	12.873	104	15733m	0.130	ppbv	
64) n-propylbenzene	14.889	120	25411m	0.269	ppbv	
72) 4-Ethyltoluene	15.162	105	143514	0.514	ppbv #	94
73) 1,3,5-Trimethylbenzene	15.323	105	103199	0.428	ppbv	92
74) 1,2,4-Trimethylbenzene	16.072	105	424020	1.582	ppbv #	70

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

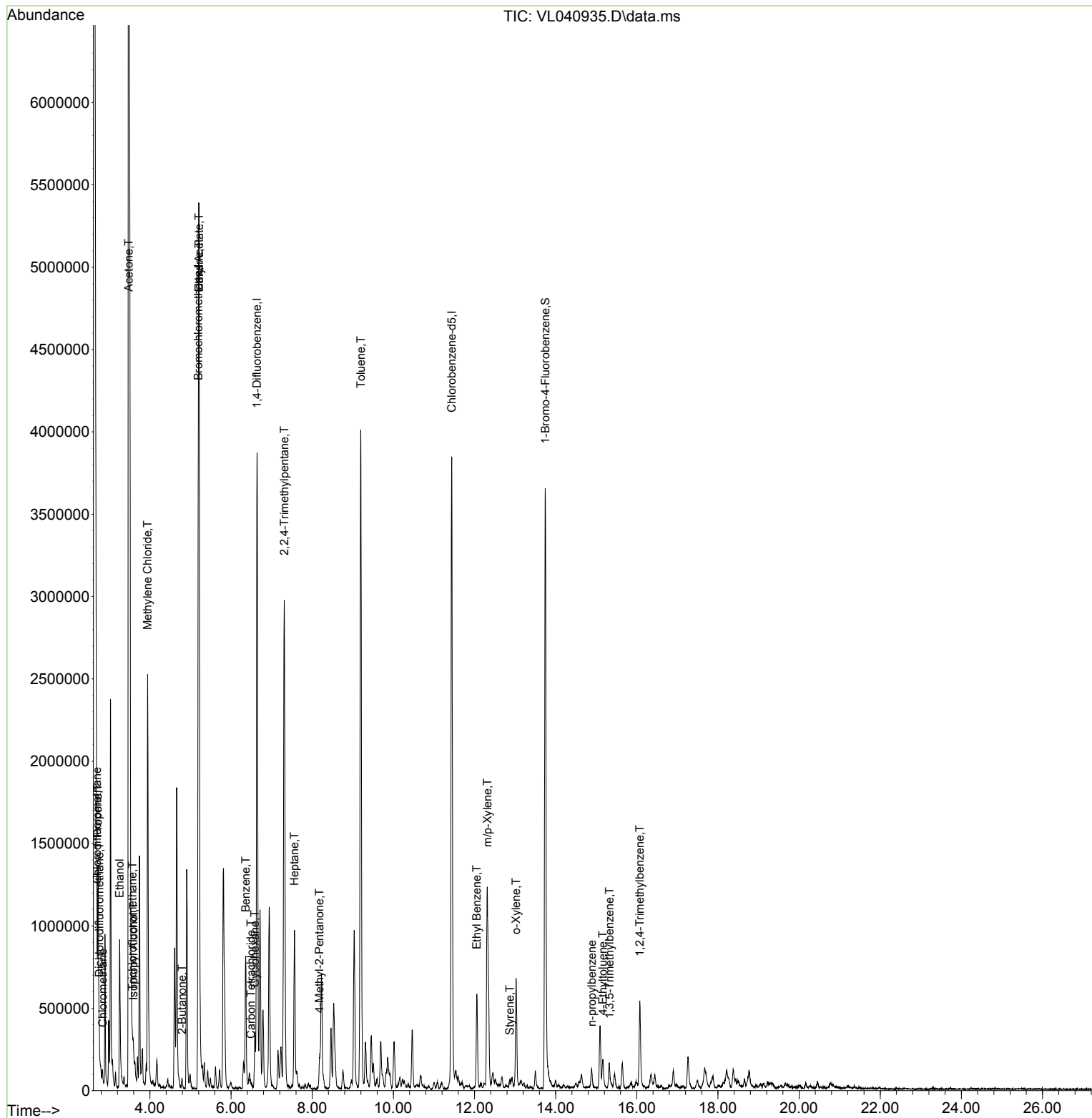
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
Data File : VL040935.D
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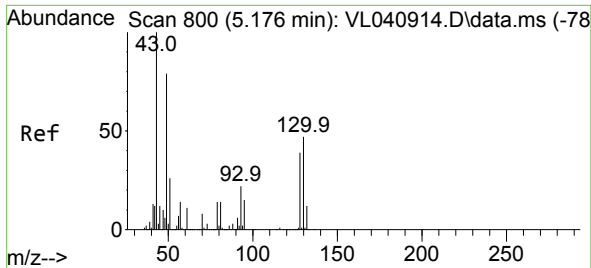
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Dec 22 00:09:43 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 21 07:32:42 2023
Response via : Initial Calibration

Manual Integrations
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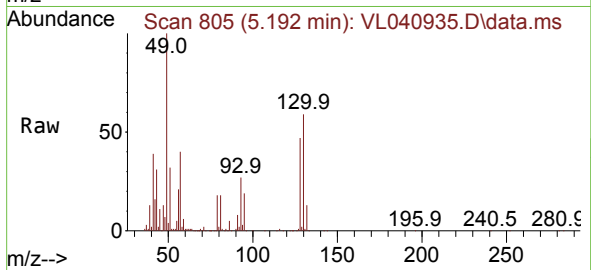
Reviewed By : Semsettin Yesilyurt 12/22/2023
Supervised By : Mahesh Dadoda 12/26/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.016 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

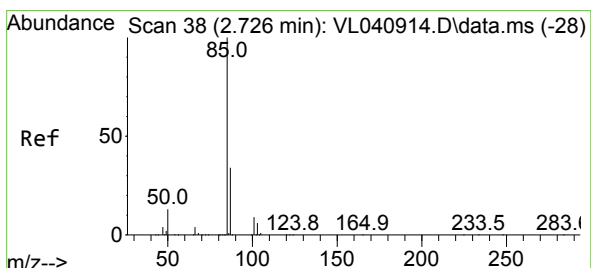
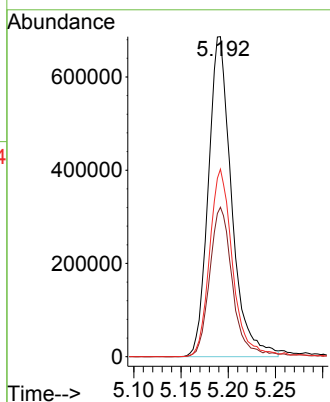
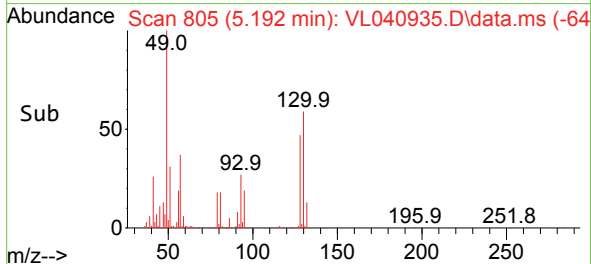
Instrument :
MSVOA_L
ClientSampleId :
IA1



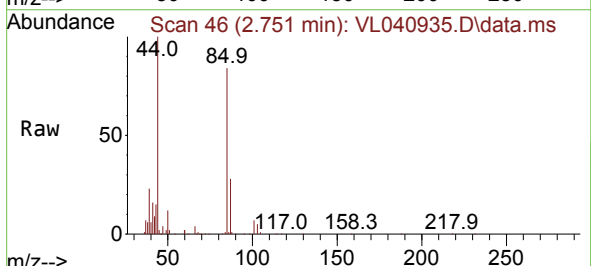
Tgt Ion: 49 Resp: 117479
Ion Ratio Lower Upper
49 100
128 46.7 23.8 71.2
130 59.0 30.1 90.5

Manual Integrations
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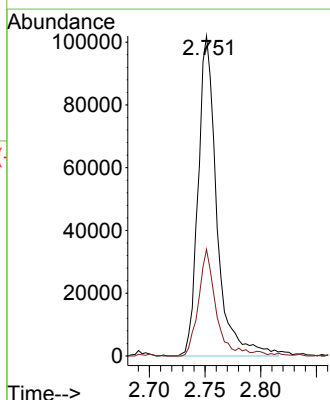
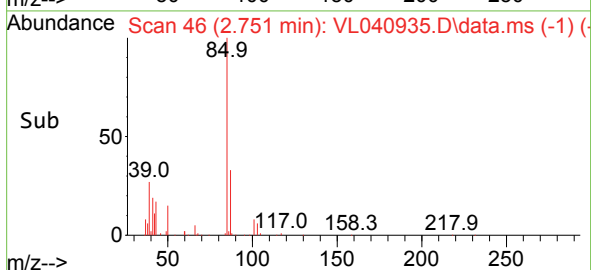
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

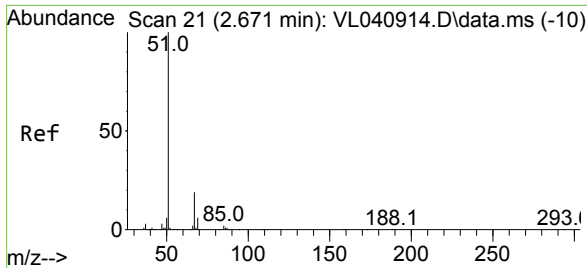


#2
Dichlorodifluoromethane
Concen: 0.534 ppbv
RT: 2.751 min Scan# 46
Delta R.T. 0.026 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31



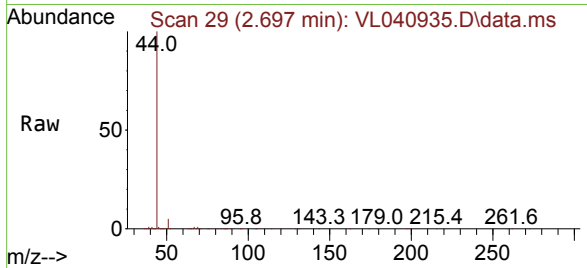
Tgt Ion: 85 Resp: 119449
Ion Ratio Lower Upper
85 100
87 33.3 27.0 40.6





#3
Chlorodifluoromethane
Concen: 0.484 ppbv
RT: 2.697 min Scan# 29
Delta R.T. 0.026 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

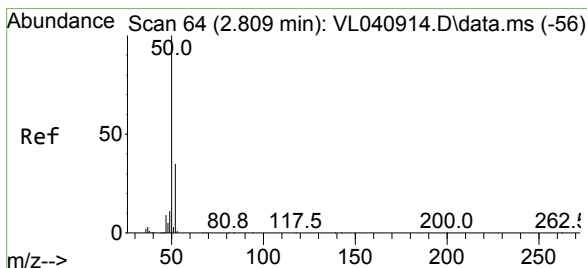
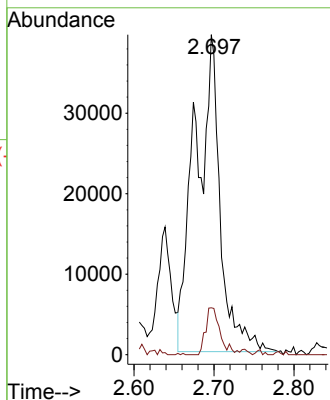
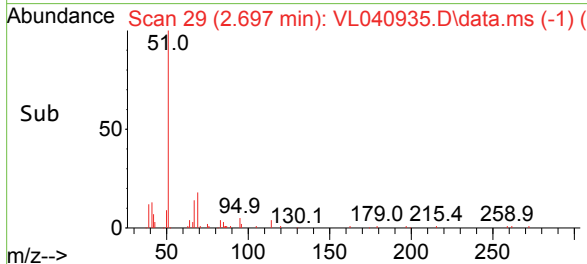
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 8551
Ion Ratio Lower Upper
51 100
67 9.4 14.7 22.1

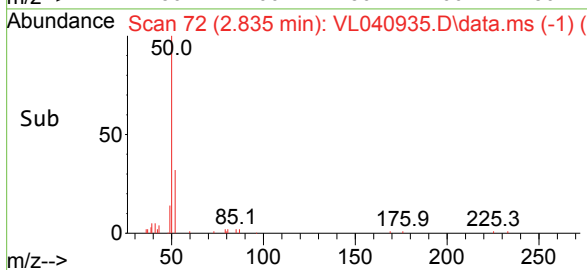
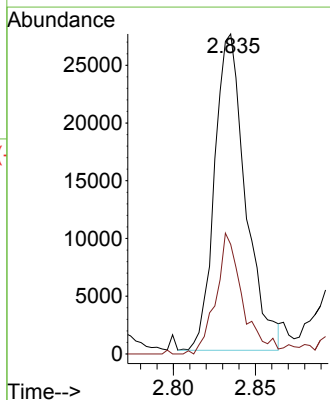
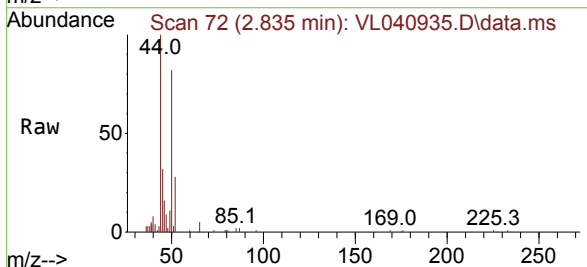
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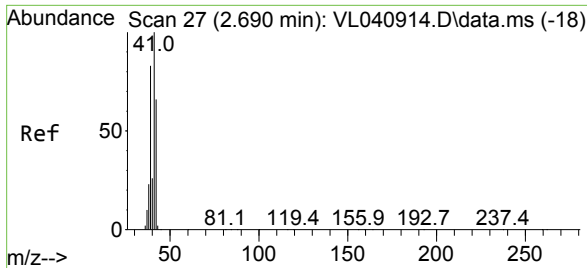
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#4
Chloromethane
Concen: 0.552 ppbv
RT: 2.835 min Scan# 72
Delta R.T. 0.026 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

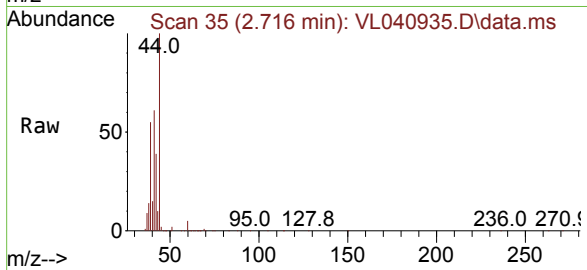
Tgt Ion: 50 Resp: 36010
Ion Ratio Lower Upper
50 100
52 34.7 28.0 42.0





#9
Propene
Concen: 6.728 ppbv
RT: 2.716 min Scan# 30
Delta R.T. 0.026 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

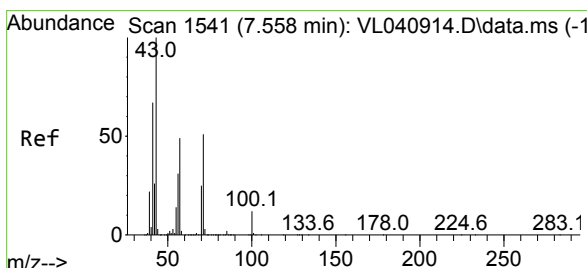
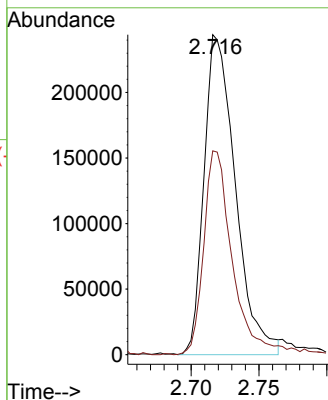
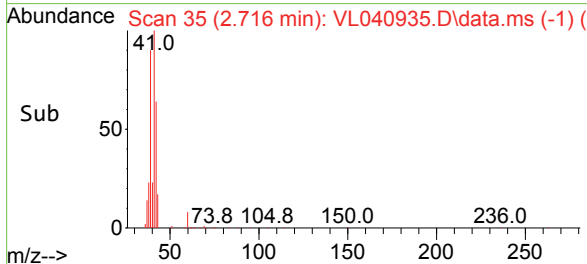
Instrument :
MSVOA_L
ClientSampleId :
IA1



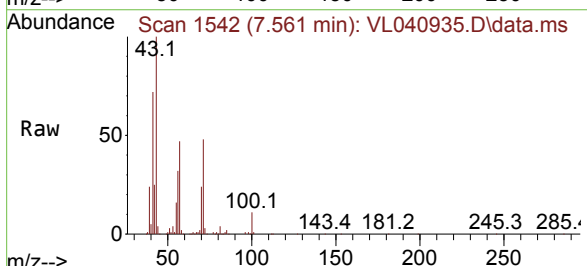
Tgt Ion: 41 Resp: 392478
Ion Ratio Lower Upper
41 100
42 60.0 55.8 83.6

Manual Integrations
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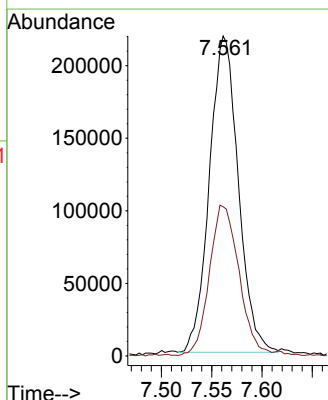
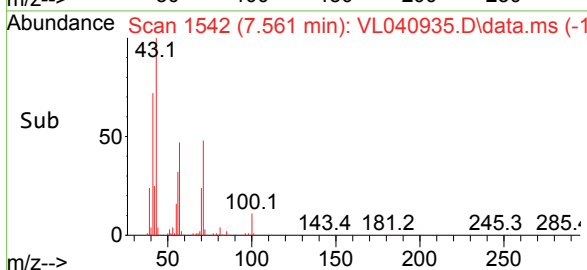
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

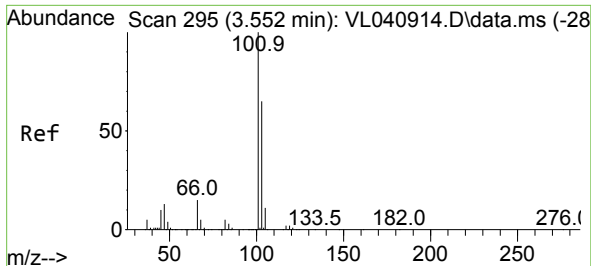


#10
Heptane
Concen: 3.002 ppbv
RT: 7.561 min Scan# 1542
Delta R.T. 0.003 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31



Tgt Ion: 43 Resp: 435272
Ion Ratio Lower Upper
43 100
57 50.1 39.3 58.9





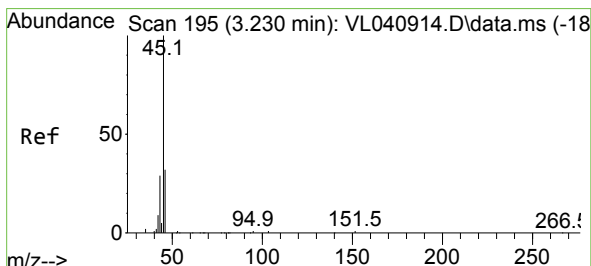
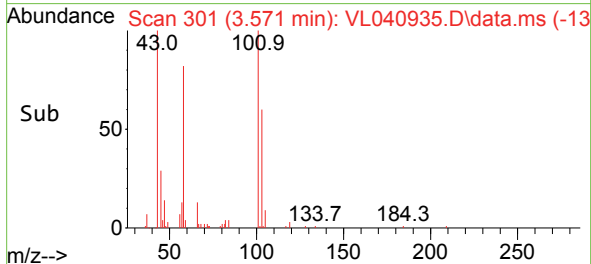
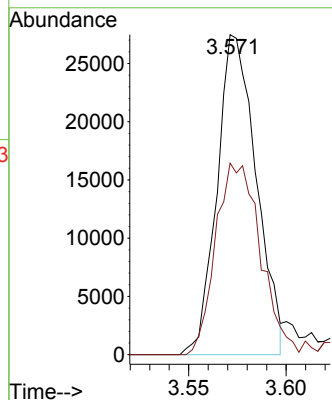
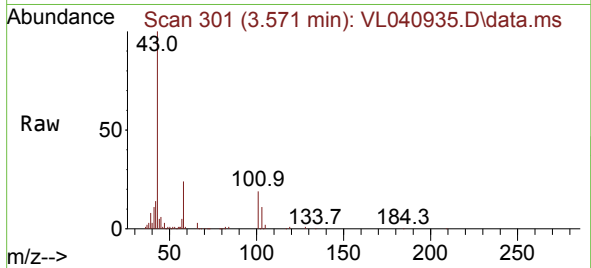
#11
Trichlorofluoromethane
Concen: 0.220 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.019 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:101 Resp: 38480
Ion Ratio Lower Upper
101 100
103 59.9 51.9 77.9

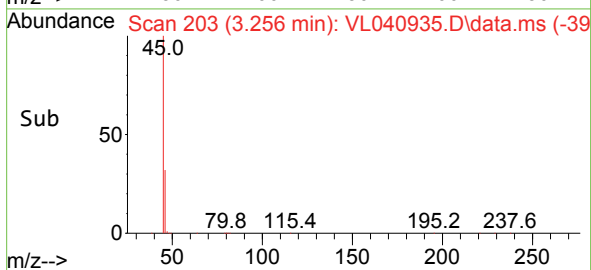
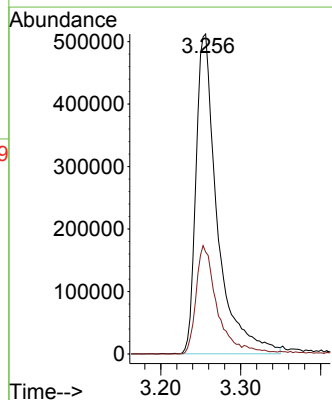
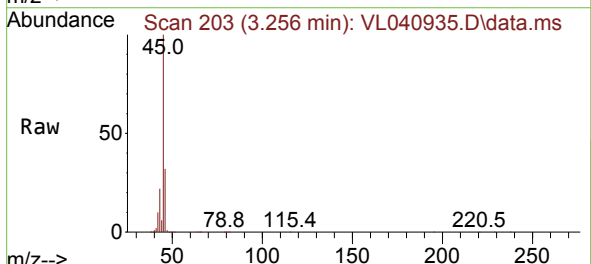
Manual Integrations
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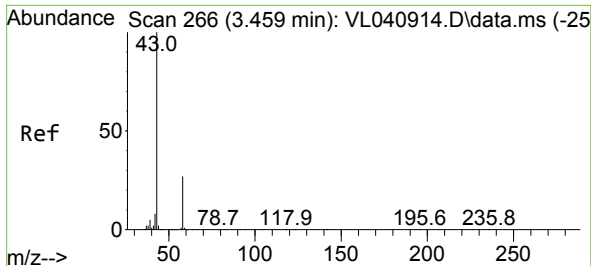
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#13
Ethanol
Concen: 64.660 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.026 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

Tgt Ion: 45 Resp: 951521
Ion Ratio Lower Upper
45 100
46 34.7 15.0 60.0





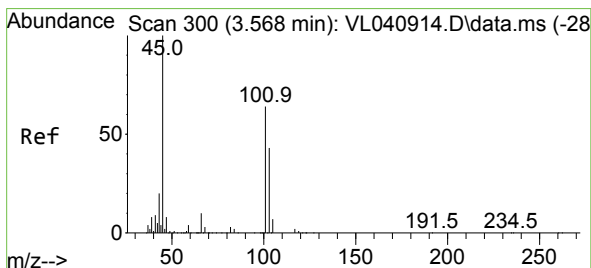
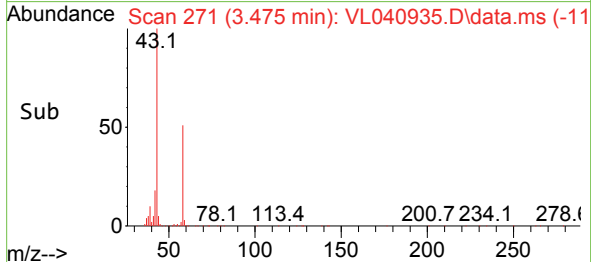
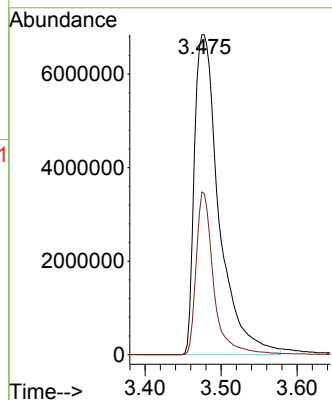
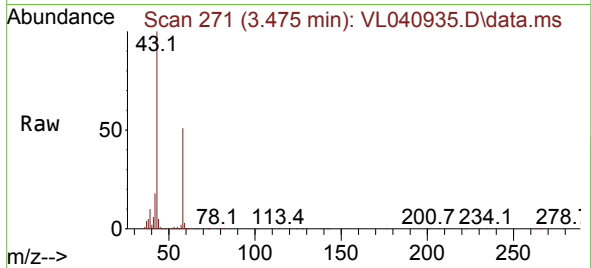
#15
Acetone
Concen: 109.292 ppbv
RT: 3.475 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp:15398989
Ion Ratio Lower Upper
43 100
58 36.5 20.6 30.8

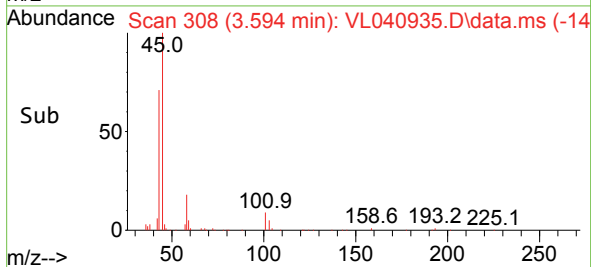
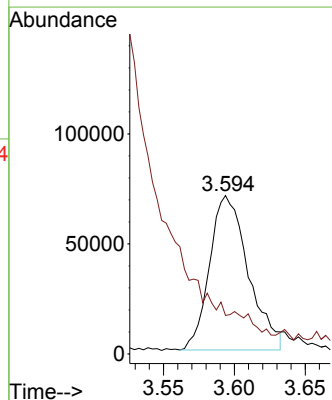
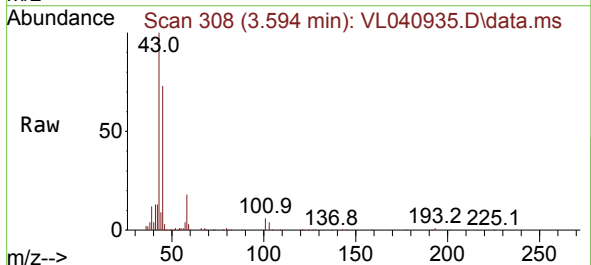
Manual Integrations
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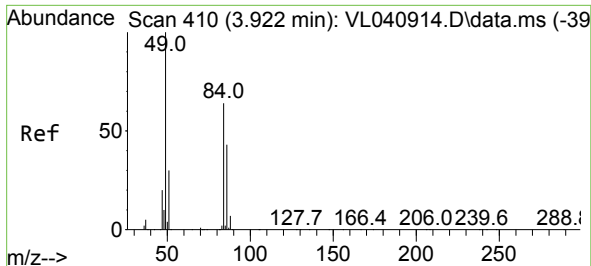
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#19
Isopropyl Alcohol
Concen: 1.819 ppbv
RT: 3.594 min Scan# 308
Delta R.T. 0.026 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

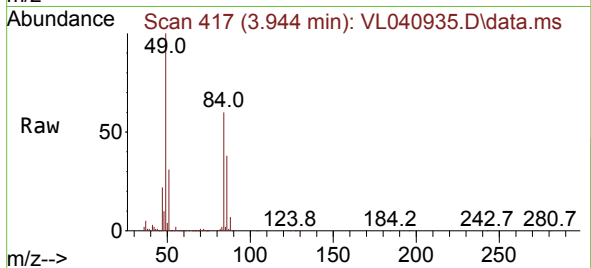
Tgt Ion: 45 Resp: 133739
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3





#20
Methylene Chloride
Concen: 15.360 ppbv
RT: 3.944 min Scan# 410
Delta R.T. 0.023 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

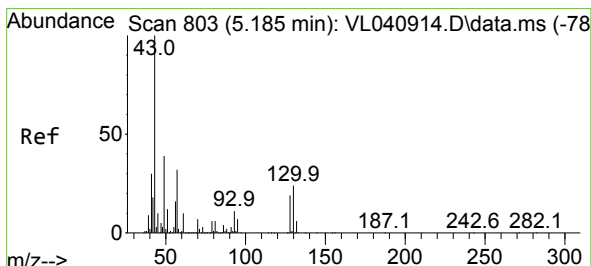
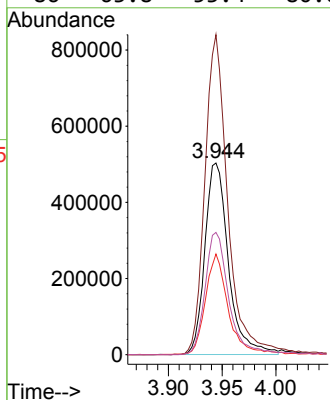
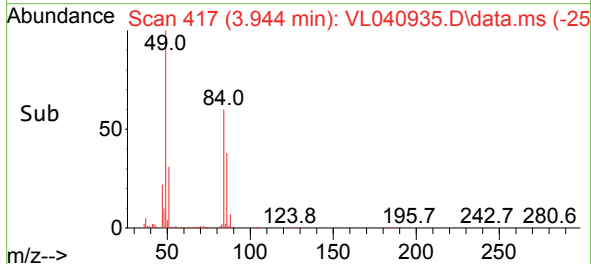
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 771450
Ion Ratio Lower Upper
84 100
49 167.0 124.6 187.0
51 52.3 37.2 55.8
86 63.8 53.4 80.0

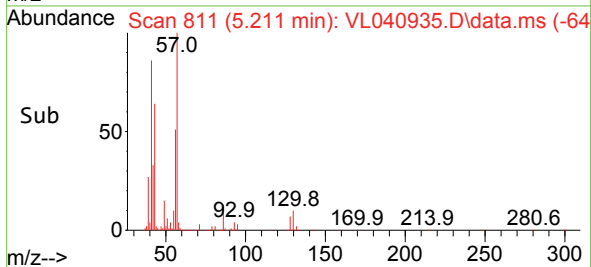
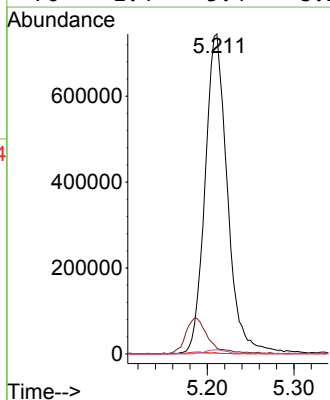
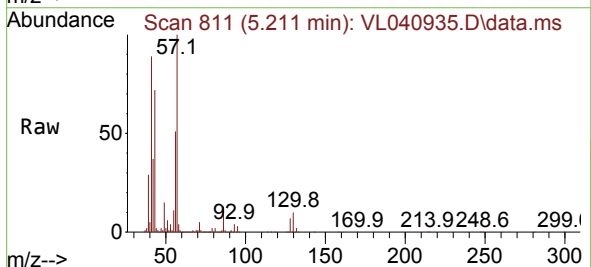
Manual Integrations
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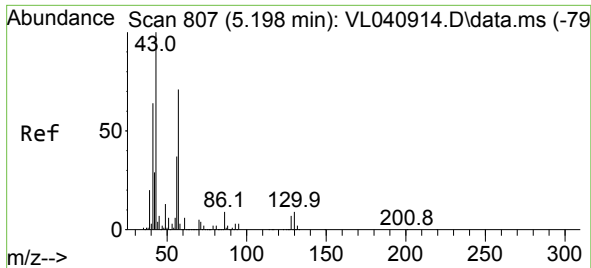
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#25
Ethyl Acetate
Concen: 5.447 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.026 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

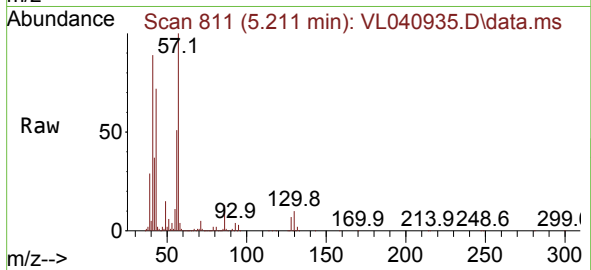
Tgt Ion: 43 Resp: 1329836
Ion Ratio Lower Upper
43 100
45 11.9 8.2 12.2
61 0.7 7.6 11.4#
70 1.4 5.4 8.2#





#26
Hexane
Concen: 17.092 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

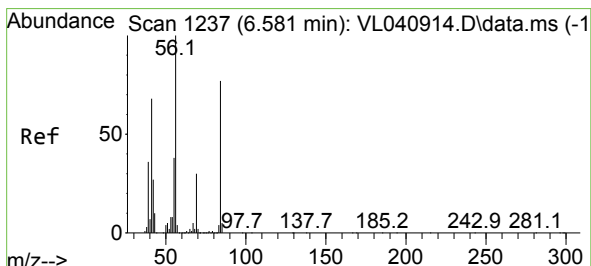
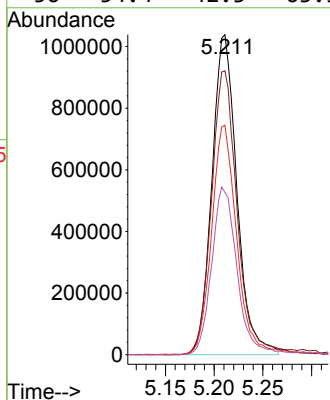
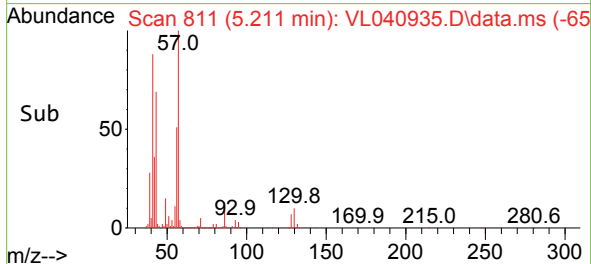
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 184936
Ion Ratio Lower Upper
57 100
41 93.1 75.2 112.8
43 73.1 188.0 282.0
56 54.4 42.3 63.5

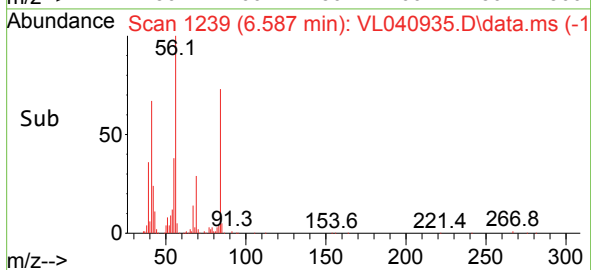
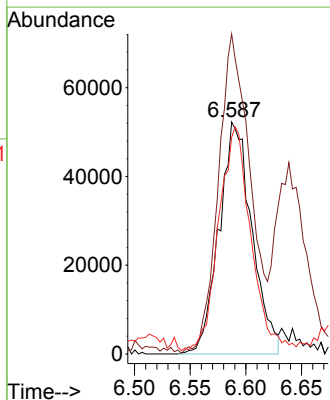
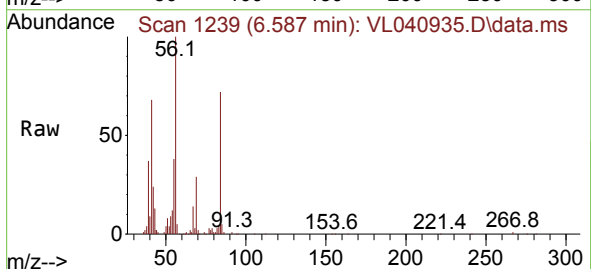
Manual Integrations
APPROVED

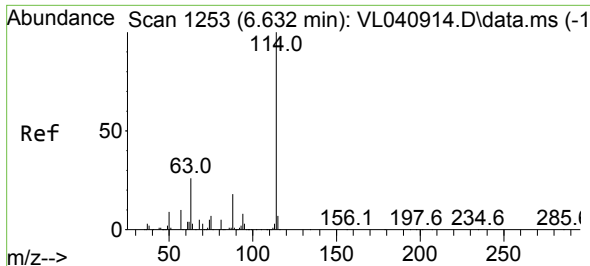
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#30
Cyclohexane
Concen: 1.191 ppbv
RT: 6.587 min Scan# 1239
Delta R.T. 0.006 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

Tgt Ion: 84 Resp: 107459
Ion Ratio Lower Upper
84 100
56 133.2 111.4 167.2
41 94.0 70.0 105.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 114

Delta R.T. 0.006 min

Lab File: VL040935.D

Acq: 21 Dec 2023 18:31

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 2864828

Ion Ratio Lower Upper

114 100

63 26.2 21.0 31.6

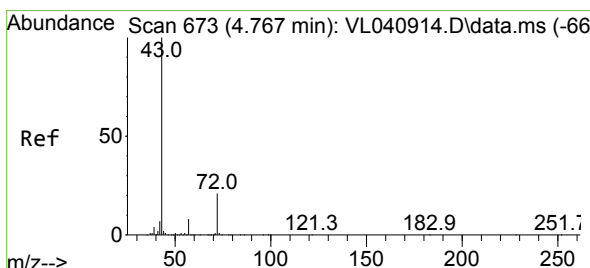
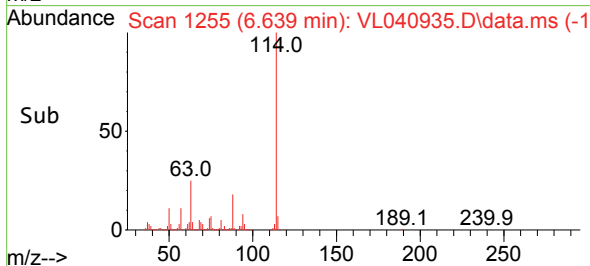
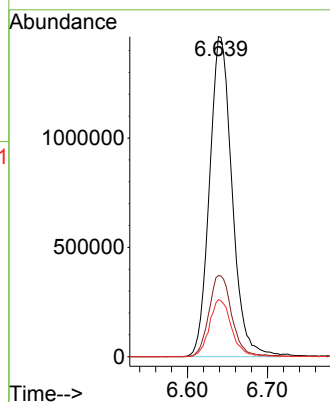
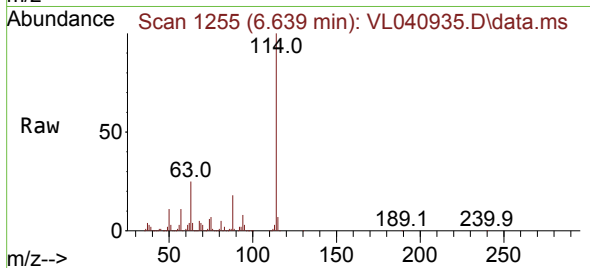
88 17.7 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023

Supervised By :Mahesh Dadoda 12/26/2023



#34

2-Butanone

Concen: 0.414 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.026 min

Lab File: VL040935.D

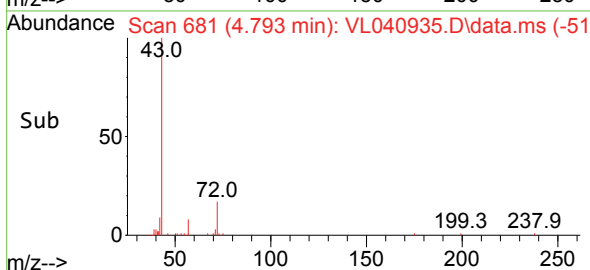
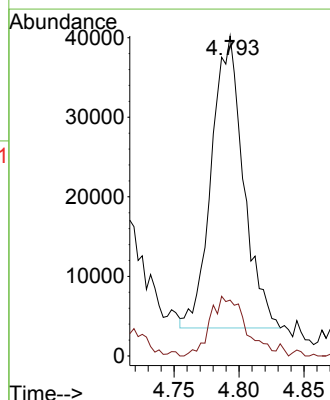
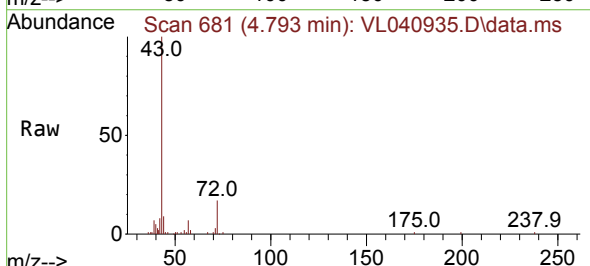
Acq: 21 Dec 2023 18:31

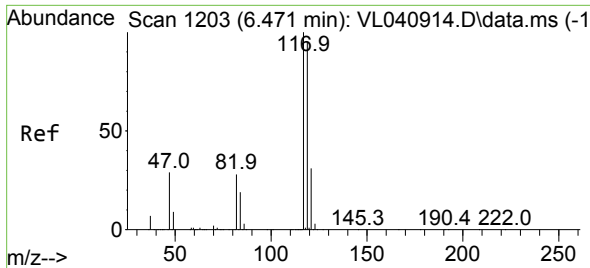
Tgt Ion: 43 Resp: 62804

Ion Ratio Lower Upper

43 100

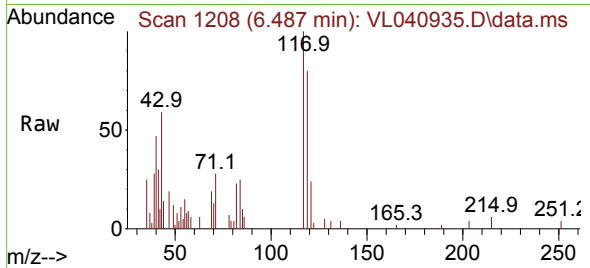
72 23.9 17.2 25.8





#35
Carbon Tetrachloride
Concen: 0.064 ppbv m
RT: 6.487 min Scan# 1144
Delta R.T. 0.016 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

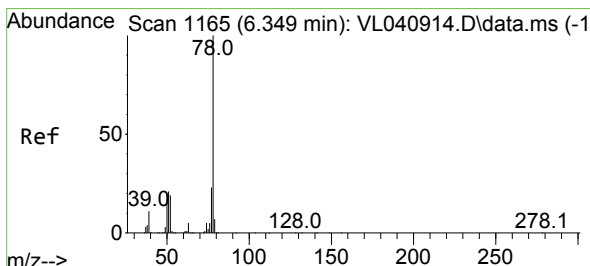
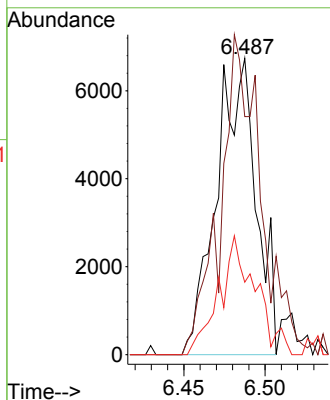
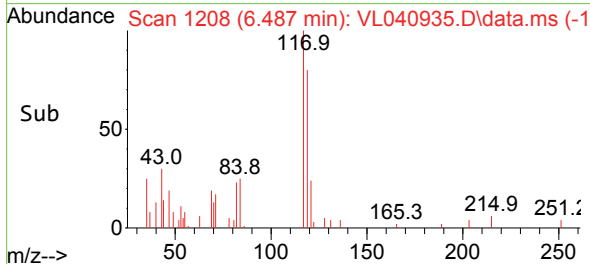
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 117 Resp: 1144
Ion Ratio Lower Upper
117 100
119 80.3 76.3 114.5
121 24.5 24.9 37.3

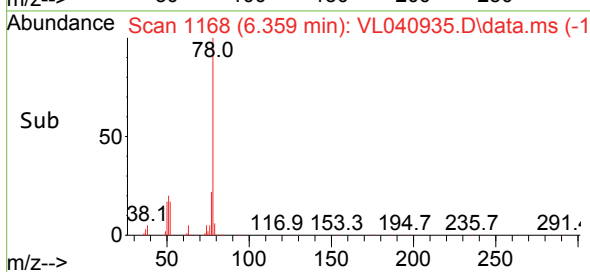
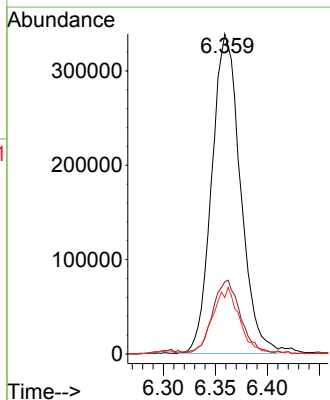
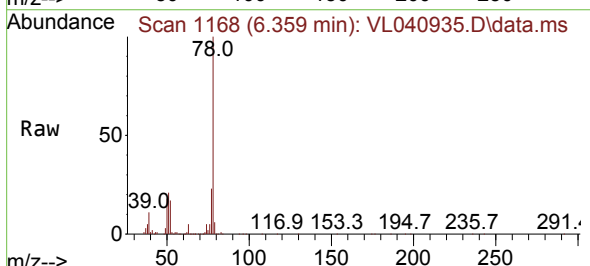
Manual Integrations
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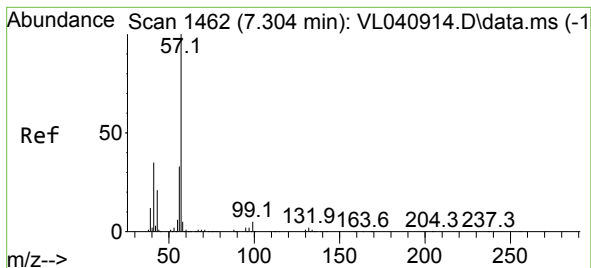
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#36
Benzene
Concen: 2.894 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. 0.010 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

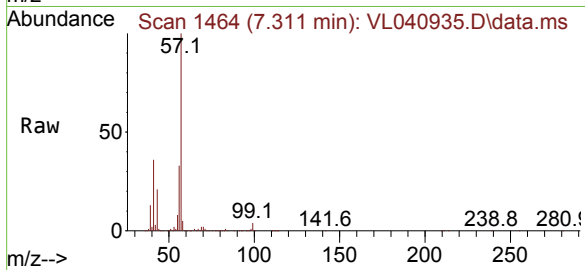
Tgt Ion: 78 Resp: 648045
Ion Ratio Lower Upper
78 100
77 21.8 18.4 27.6
50 17.1 16.0 24.0





#44
2,2,4-Trimethylpentane
Concen: 7.518 ppbv
RT: 7.311 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

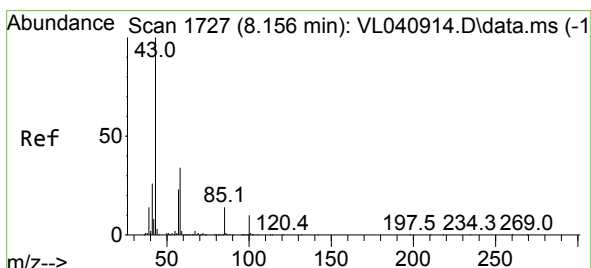
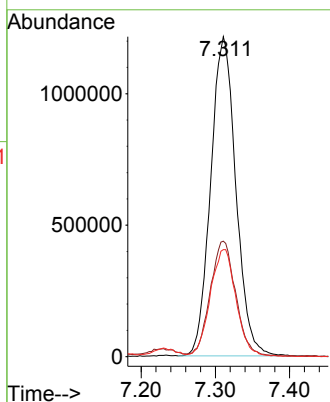
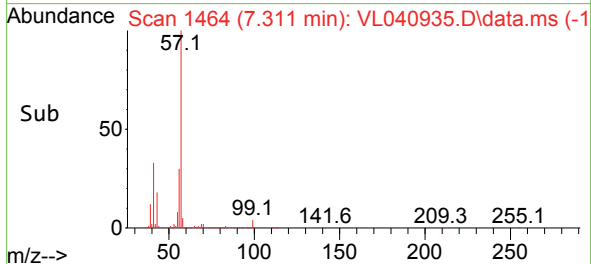
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 285985
Ion Ratio Lower Upper
57 100
41 36.8 28.2 42.4
56 34.8 25.3 37.9

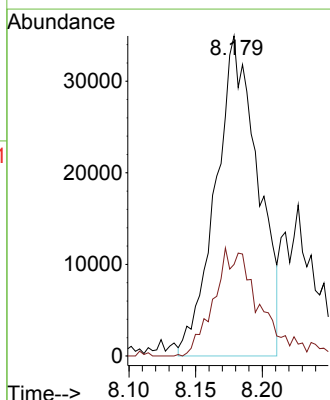
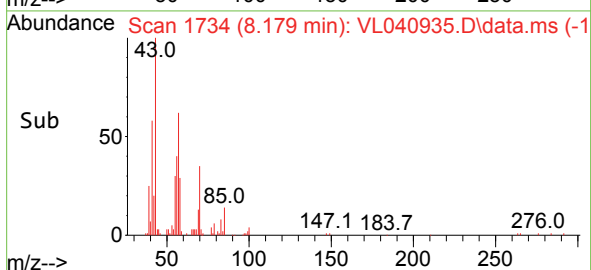
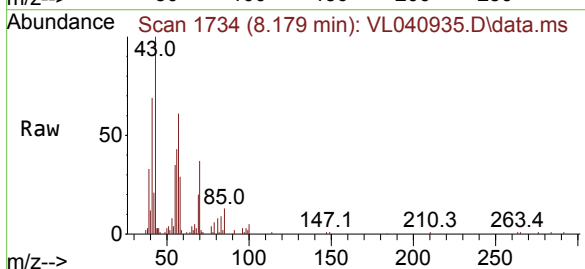
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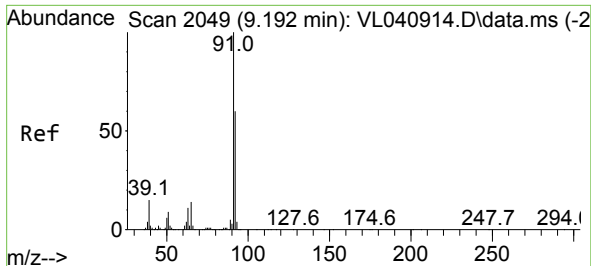
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#50
4-Methyl-2-Pentanone
Concen: 0.336 ppbv m
RT: 8.179 min Scan# 1734
Delta R.T. 0.023 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

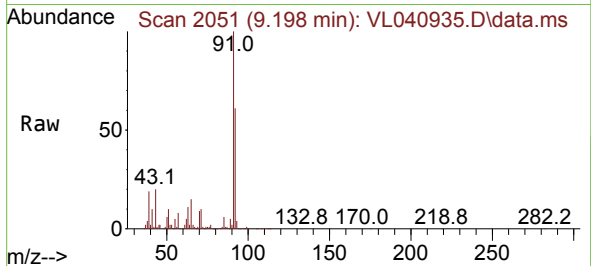
Tgt Ion: 43 Resp: 77204
Ion Ratio Lower Upper
43 100
58 37.8 27.4 41.0





#53
Toluene
Concen: 10.056 ppbv
RT: 9.198 min Scan# 2049
Delta R.T. 0.006 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

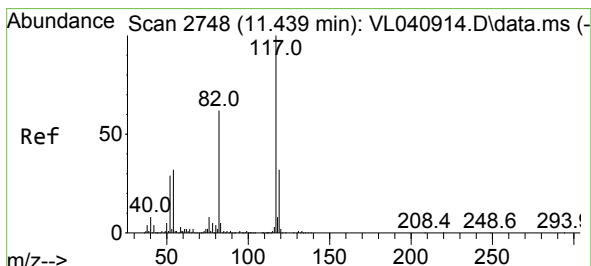
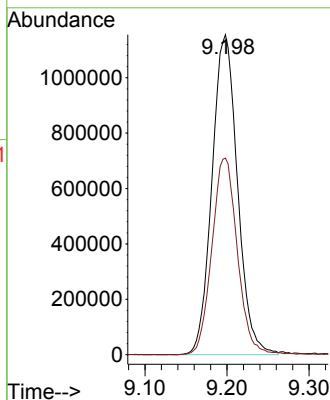
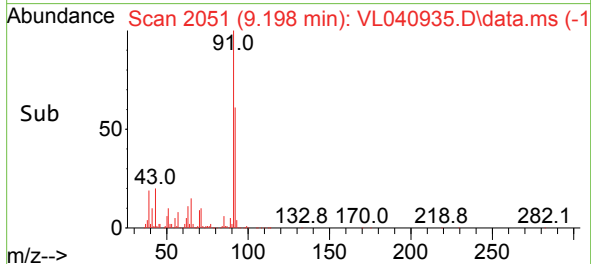
Instrument :
MSVOA_L
Client Sample Id :
IA1



Tgt Ion: 91 Resp: 249724
Ion Ratio Lower Upper
91 100
92 61.5 49.2 73.8

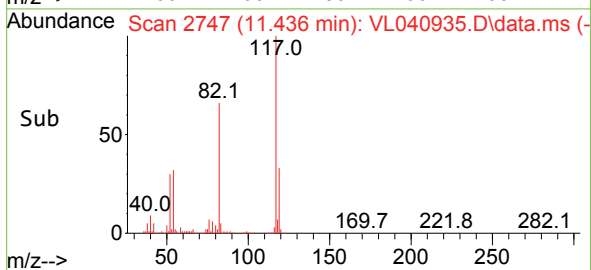
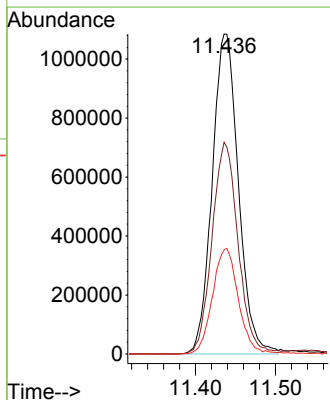
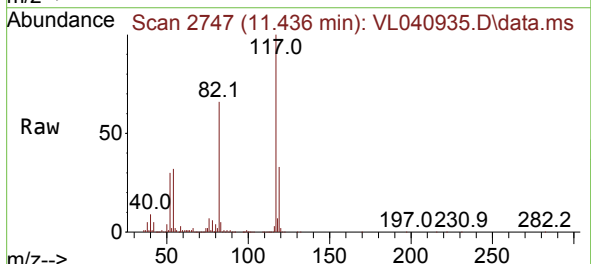
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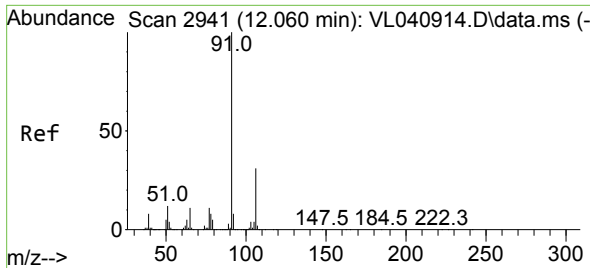
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.436 min Scan# 2747
Delta R.T. -0.003 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

Tgt Ion:117 Resp: 2470314
Ion Ratio Lower Upper
117 100
82 65.7 49.6 74.4
119 32.8 23.4 35.0





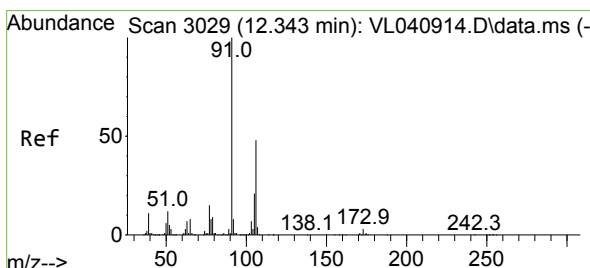
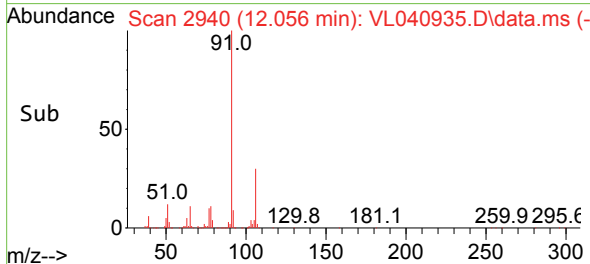
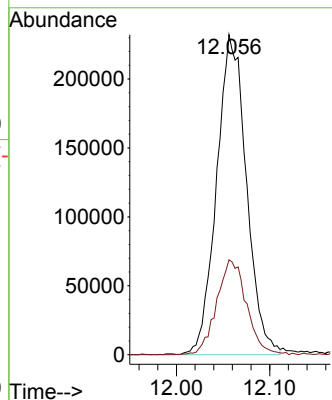
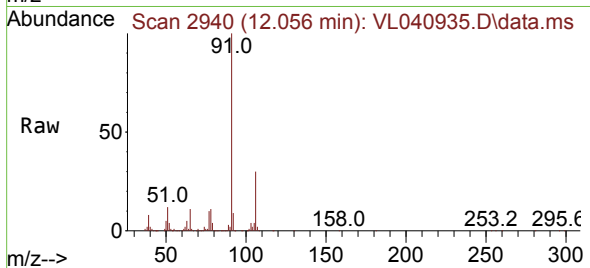
#58
Ethyl Benzene
Concen: 1.622 ppbv m
RT: 12.056 min Scan# 2941
Delta R.T. -0.003 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 514570
Ion Ratio Lower Upper
91 100
106 29.7 24.9 37.3

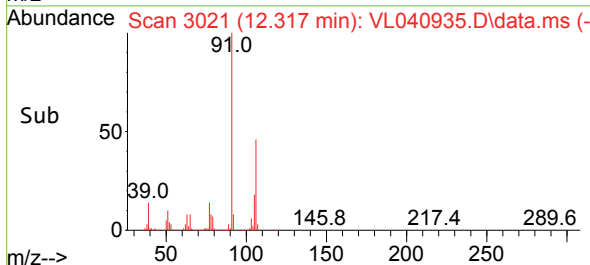
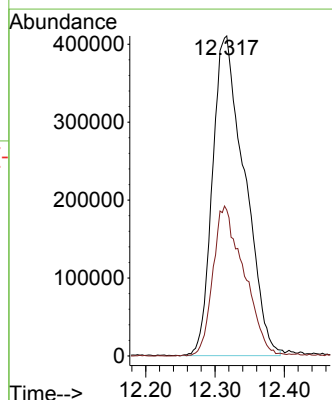
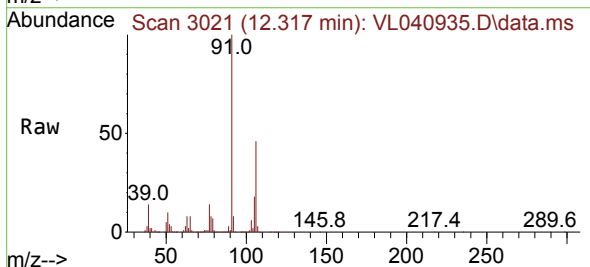
Manual Integrations
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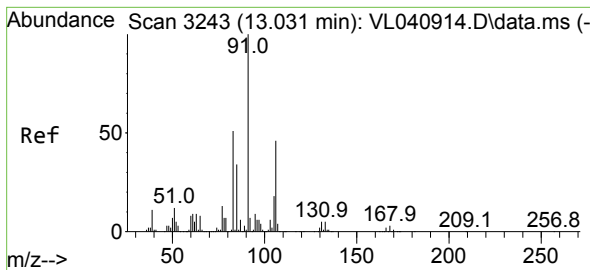
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#59
m/p-Xylene
Concen: 4.887 ppbv
RT: 12.317 min Scan# 3021
Delta R.T. -0.026 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

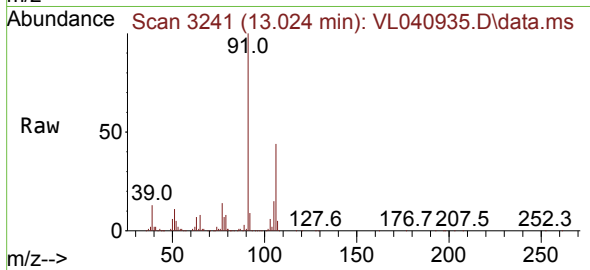
Tgt Ion: 91 Resp: 1318809
Ion Ratio Lower Upper
91 100
106 45.8 0.0 0.0#





#60
o-Xylene
Concen: 2.034 ppbv
RT: 13.024 min Scan# 3194
Delta R.T. -0.006 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

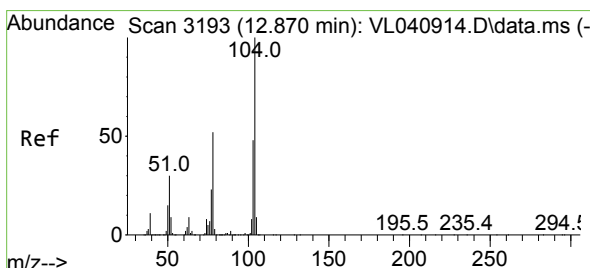
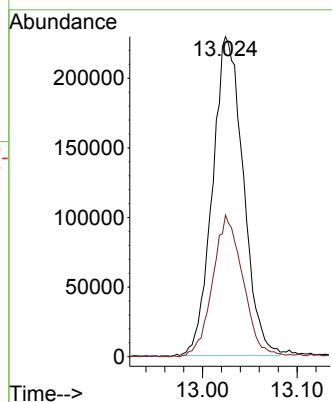
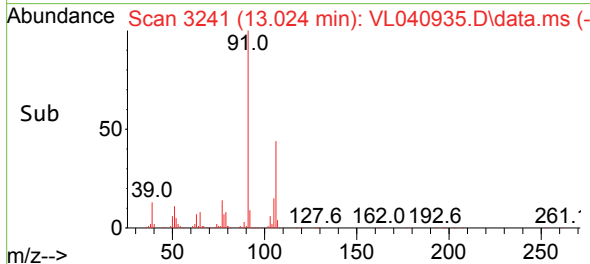
Instrument :
MSVOA_L
ClientSampleId :
IA1



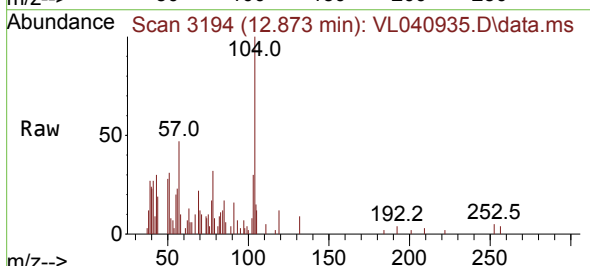
Tgt Ion: 91 Resp: 517314
Ion Ratio Lower Upper
91 100
106 43.8 22.6 67.7

Manual Integrations
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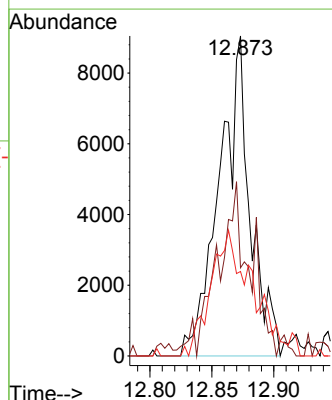
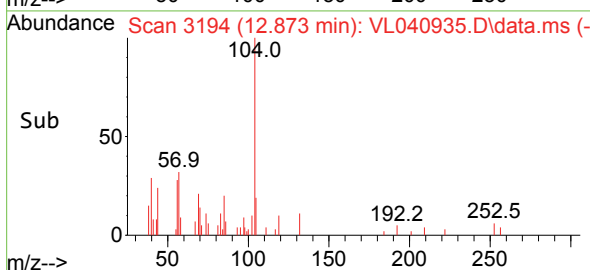
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

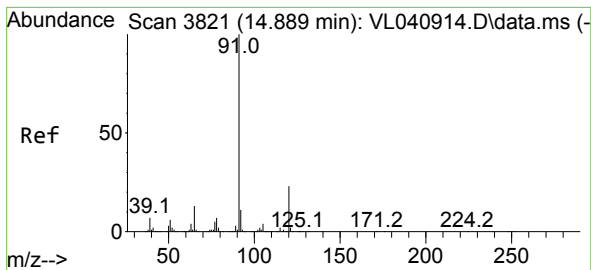


#61
Styrene
Concen: 0.130 ppbv m
RT: 12.873 min Scan# 3194
Delta R.T. 0.003 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31



Tgt Ion:104 Resp: 15733
Ion Ratio Lower Upper
104 100
78 0.0 43.0 64.4#
103 53.9 37.6 56.4





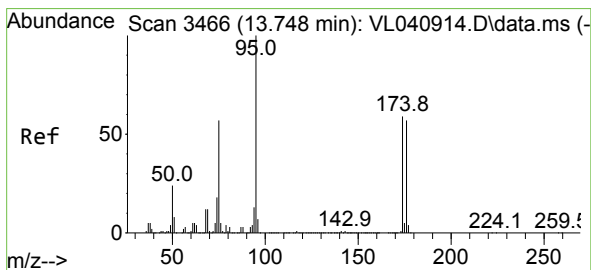
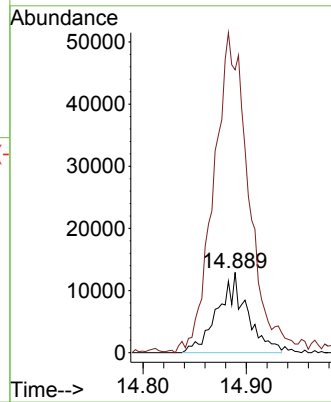
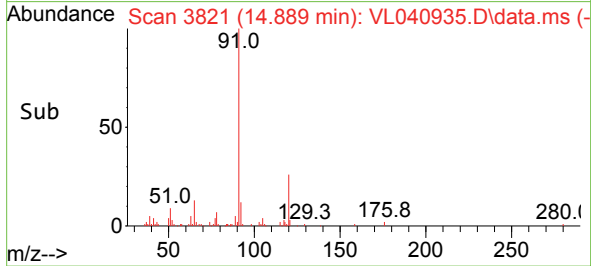
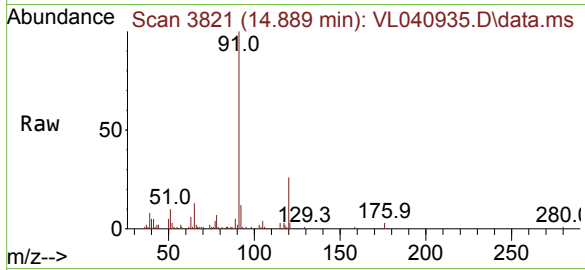
#64
n-propylbenzene
Concen: 0.269 ppbv m
RT: 14.889 min Scan# 3821
Delta R.T. 0.000 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:120 Resp: 2541
Ion Ratio Lower Upper
120 100
91 487.8 381.9 572.9

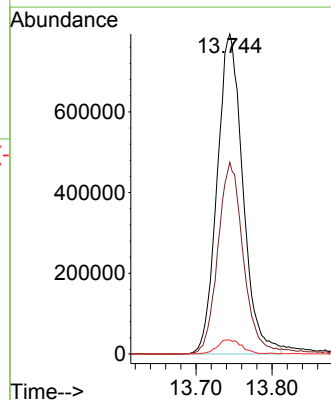
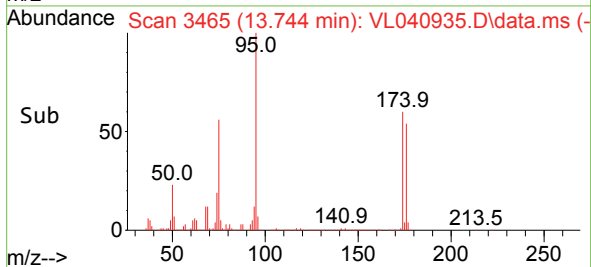
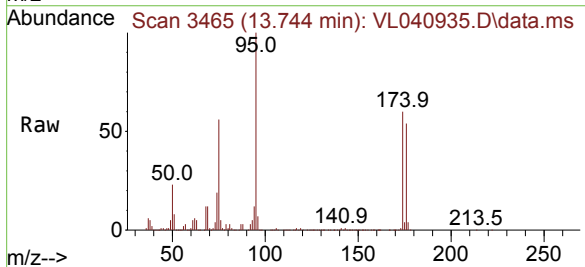
Manual Integrations
APPROVED

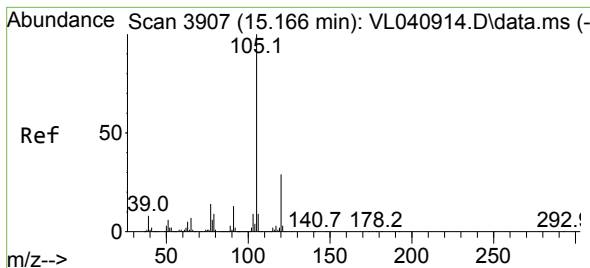
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 10.249 ppbv
RT: 13.744 min Scan# 3465
Delta R.T. -0.003 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

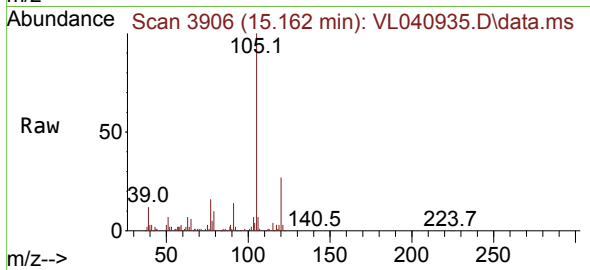
Tgt Ion: 95 Resp: 1864903
Ion Ratio Lower Upper
95 100
174 60.9 48.0 72.0
175 4.4 3.7 5.5





#72
4-Ethyltoluene
Concen: 0.514 ppbv
RT: 15.162 min Scan# 3907
Delta R.T. -0.003 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

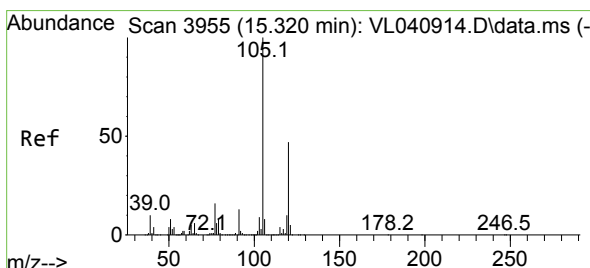
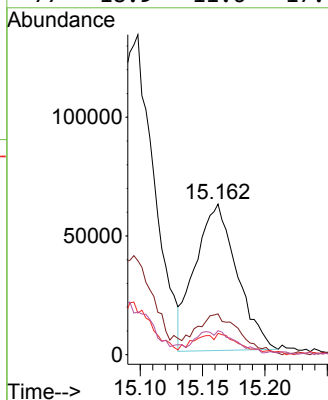
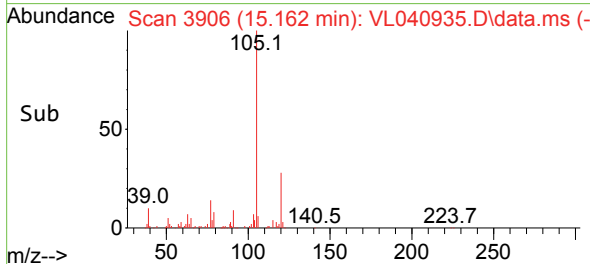
Instrument : MSVOA_L
ClientSampleId : IA1



Tgt Ion:105 Resp: 143514
Ion Ratio Lower Upper
105 100
120 27.6 23.8 35.8
91 16.2 10.9 16.3
77 18.9 11.6 17.4#

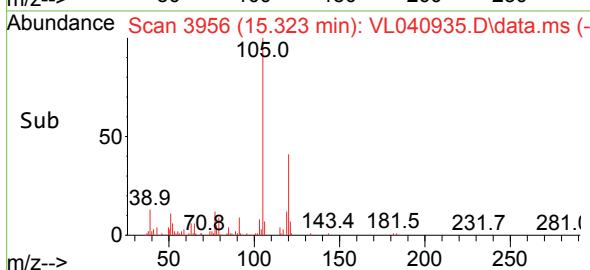
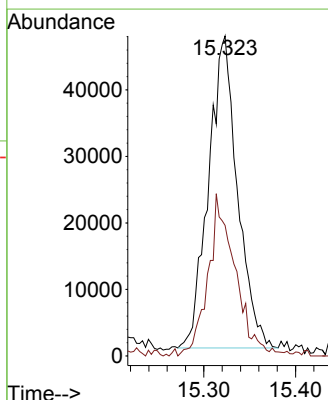
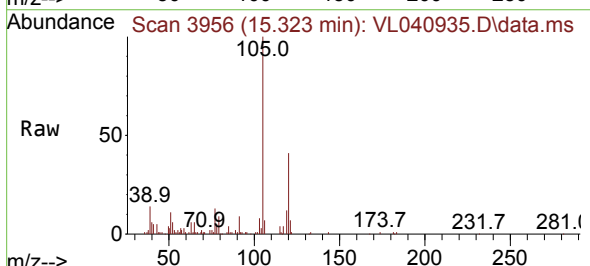
Manual Integrations
APPROVED

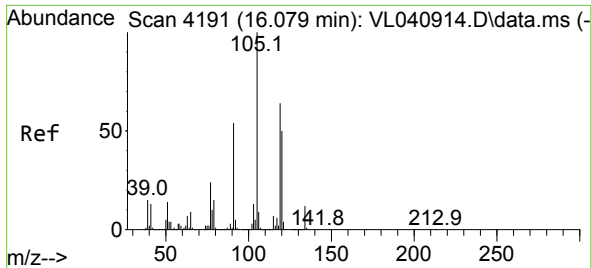
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#73
1,3,5-Trimethylbenzene
Concen: 0.428 ppbv
RT: 15.323 min Scan# 3956
Delta R.T. 0.003 min
Lab File: VL040935.D
Acq: 21 Dec 2023 18:31

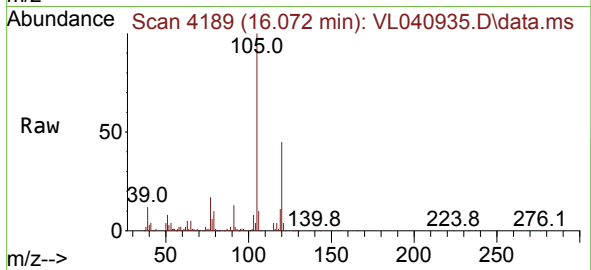
Tgt Ion:105 Resp: 103199
Ion Ratio Lower Upper
105 100
120 41.8 37.8 56.8





#74
 1,2,4-Trimethylbenzene
 Concen: 1.582 ppbv
 RT: 16.072 min Scan# 4191
 Delta R.T. -0.006 min
 Lab File: VL040935.D
 Acq: 21 Dec 2023 18:31

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	105	Resp:	424020
Ion Ratio	Lower	Upper	
105	100		
120	45.0	40.2	60.4
91	12.9	43.0	64.6
77	15.8	18.9	28.3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023
 Supervised By :Mahesh Dadoda 12/26/2023

